CITY OF FORT PIERCE ST. LUCIE COUNTY, FLORIDA

JUNE 18, 2018

PROJECT TEAM

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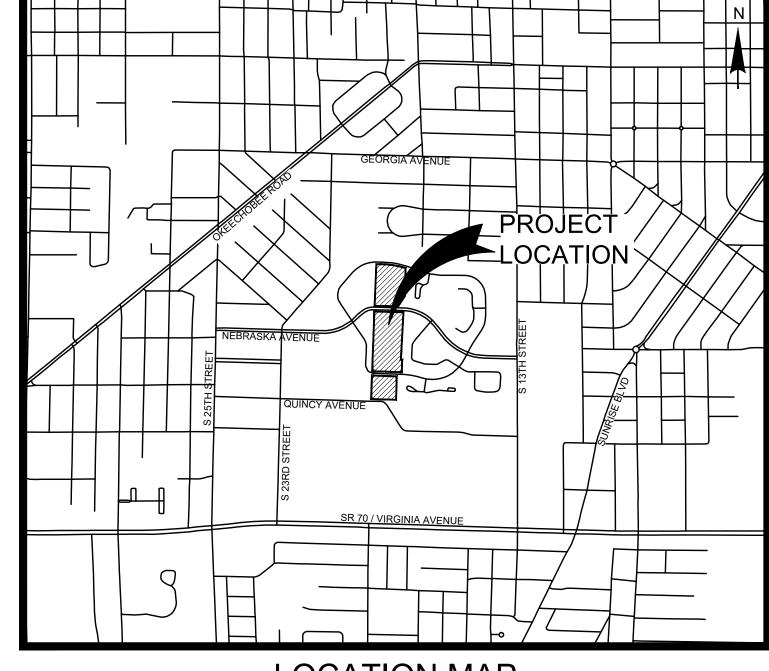
CIVIL ENGINEER:
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POTABLE WATER
NON-POTABLE WATER
WASTEWATER
POWER
TELECOMMUNICATIONS

CITY OF FT PIERCE CITY OF FT PIERCE CITY OF FT PIERCE DUKE ENERGY SPECTRUM



LOCATION MAP

SCALE: NOT TO SCALE

LEGAL DESCRIPTION
PARCEL 1:
A PART OF LAWNWOOD ADDITION SUBDIVISION, AS RECORDED IN PLAT BOOK 2, PAGE 16, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, BEING GEOMETRICALLY DESCRIBED AS FOLLOWS:
COMMENCING (P.O.C.) AT THE SOUTHWEST CORNER OF A 16 FOOT ALLEY RUNNING EAST AND MEST THROUGH BLOCK 31 OF SAID LAWMBOOD ADDITION SUBDIVISION, THENCE RUN SOUTH 01725' WEST, ALDNO THE EAST LINE OF THE SOUTH 19TH STREET CANAL RIGHT-OF-WAY, 839.34 FEET TO THE POINT OF BEGINNING (P.O.S.), THENCE RUN MORTH 01725' EAST ALONG THE EAST LINE OF THE SOUTH HEST HANDING A RADIUS OF 1188.94 FEET, ALONG SECTION THE SOUTHWEST HANDING A RADIUS OF 1188.94 FEET, ALONG CONCANE TO THE SOUTHWEST HANDING A RADIUS OF 1188.94 FEET, ALONG CONCANE TO THE SOUTHWEST HANDING A RADIUS OF 1188.94 FEET, ALONG CONCANE TO THE SOUTHWEST HANDING A CHORD BEARING OF SOUTH 82'86'44" (LAST, AND A CHORD DISTANCE OF 412.34 FEET, THE LAST DESCRIBED COURSE BEING ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF NEBRASKA AMENUE; THENCE RUN SOUTH 01725' WEST PARALLE, WITH THE EAST RIGHT-OF-WAY LINE OF NEBRASKA AMENUE; THENCE RUN SOUTH 01725' WEST AND A CHORD DISTANCE OF 15.00 FEET TO THE NORTHERLY RIGHT-OF-WAY LINE OF NEBRASKA AMENUE; THENCE RUN SETERLY ALONG A CLURVE CONCAME TO THE SOUTH HAVING A RADIUS OF 635 FEET, AN ARC DISTANCE OF 15.00 FEET TO A POINT OF TAMOENCY, SAID CLIRVE HAVING A CHORD BEARING OF MORTH 88'48'06' WEST AND A CHORD DISTANCE OF 15.00 FEET; THENCE RUN NORTH 89'28'42' WEST, PARALLEL WITH THE NORTH RIGHT-OF-WAY LINE OF OUNCY AMENUE, 395.42 FEET TO THE POINT OF BEGINNING, THE LAST TWO (2) DESCRIBED COURSES BEING ALONG THE NORTHERLY RIGHT-OF-WAY LINE OF NEBRASKA AMENUE.
LESS AND EXCEPT: PART OF LAMMROOD ADDITION'S SUBDIVISION, AS RECORDED IN PLAT BOOK 2, PAGE 16, AND A PART OF LONGWOOD VILLAGE PHASE 3-A, AS RECORDED IN OFFICIAL RECORDS BOOK 586, PAGE 321, BOTH OF THE PUBLIC RECORDS OF ST. LUCE COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;
COMMENCING AT THE INTERSECTION OF THE SOUTH LINE OF NEBRASKA AVENUE AND THE WEST LINE OF SOUTH 13TH STREET, SAD POINT BEING LOCATED 600 FEET NORTH OF THE INTERSECTION OF THE MORTH-LINE OF QUINCY AVENUE AND THE SAD WEST LINE OF SOUTH 13TH STREET AS MEASURED ALONG SOUTH 13TH STREET, RUN THENCE. NORTH 89/28/42" WEST, ALONG THE SOUTH LINE OF NEBRASKA AVENUE, 400,23 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE TO THE NORTHEAST HAWING A RADIUS OF 805.94 FEET. THENCE HUN NORTHWESTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 227 NEBRASKA AVENUE WITH THE NORTHWESTERLY RIGHT-OF-WAY LINE OF NEBRASKA AVENUE WITH THE NORTHWESTERLY RIGHT-OF-WAY LINE OF LAWNWOOD CIRCLE SOUTH; THENCE CONTINUE WESTERLY AND NORTHWESTERLY FROM SAID POINT OF REVERSE CURVATURE ALONG SAID CURVE HAWING A RADIUS OF 805.94 FEET; THROUGH A CENTRAL ANGLE OF 26/51/20", AN ARC DISTANCE OF 377.75 FEET TO THE POINT OF TANGENCY OF SAID CURVE. THROUGH A CENTRAL ANGLE OF 26/51/20", AN ARC DISTANCE OF 577.75 FEET TO THE POINT OF TANGENCY OF SAID CURVE. THROUGH A CENTRAL ANGLE OF 26/51/20" AN ARC DISTANCE OF 577.75 FEET TO THE POINT OF TANGENCY OF SAID CURVE. THENCE LEAVING THE SOUTH

CURVE HAVING A RADIUS OF 805-94 FEET; THROUGH A CENTRAL ANGLE OF 26'S1'20", AN ARC DISTANCE OF 377.76 FEET TO THE POINT OF TANGENCY OF SAID CURVE; THENCE LEAVING THE SOUTH RIGHT-OF-WAY OF NEBRASKA AVENUE, THENCE RUM MORTH 39'B'41" WEST, 186.33 FEET TO A POINT OF CURVE ON A BEARING OF NORTH 50'41'19" EAST, A DISTANCE OF 80.00 FEET TO THE MORTHESTERLY AND WESTERLY ALDING SAID CURVE CONCAVE TO THE SOUTHWEST, THROUGH A CENTRAL ANGLE OF 46'48'48", HAVING AN ARC LENGTH OF 540.99 FEET, TO THE POINT OF BEGINNING OF THE FOLLOWING DESCRIBED PARCEL:

THENCE CONTINUING ALDING SAID CURVE AND THE NORTH LINE OF NEBRASKA AVENUE, THOUGH A CENTRAL ANGLE OF 121'12". AN ARC DISTANCE OF 15.00 FEET TO THE POINT OF TANGENCY; THENCE NORTH 89'
28'41" WEST CONTINUING ALDING SAID NORTH RIGHT-OF-WAY OF NEBRASKA AVENUE, A DISTANCE OF 57.76 FEET; THENCE MORTH 30'59'45" EAST, DEPARTING SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 16'C.64 FEET; THENCE SOUTH 07'25'00" WEST A DISTANCE OF 144.69 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF SAID NEBRASKA AVENUE AND THE POINT OF BEGINNING.

CONTAINING 0.14 ACRES, MORE OR LESS.

A PART OF LAWNWOOD ADDITION SUBDIVISION, AS RECORDED IN PLAT BOOK 2. PAGE 16, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, BEING GEOMETRICALLY DESCRIBED AS FOLLOWS:

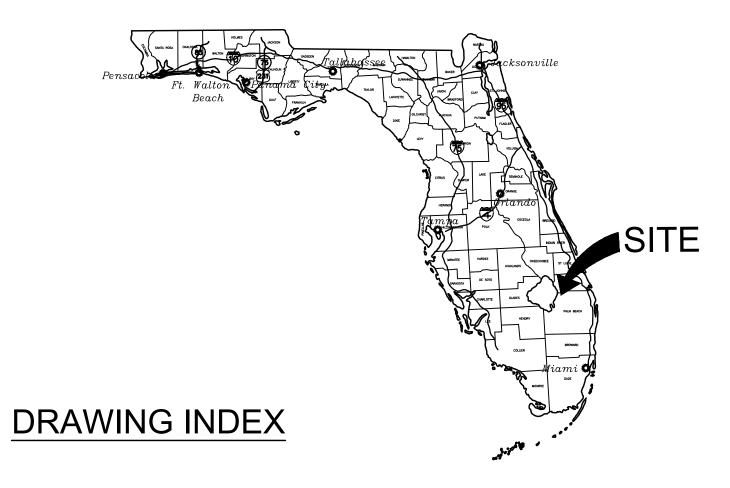
A PART OF LAWNWOOD ADDITION SUBDIVISION, AS RECORDED IN PLAT BOOK 2, PAGE 16, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, BEING GEOMETRICALLY DESCRIBED AS FOLLOWS:

COMMENCING (P.O.C.) AT THE SOUTHWEST CORNER OF A 16 FOOT ALLEY RUNNING EAST AND WEST THROUGH BLOCK 31, OF SAID LAWNWOOD ADDITION SUBDIVISION, THENCE RUN SOUTH 01'25'WEST,
ALONG THE EAST LINE OF THE SOUTH 19TH STREET CANAL RIGHT-OF-WAY, 919 35 FEET TO THE POINT OF BEGINNING (P.O.B.); THENCE RUN SOUTH 89'26'42' EAST, ALONG THE SOUTH 19TH STREET CANAL, 63.12 FEET, THENCE RUN SOUTH 89'26'42' EAST, PARALLEL WITH THE MORTH RIGHT-OF-WAY LINE OF GUINCY AVENUE, A DISTANCE OF 396.67 FEET; THENCE RUN SOUTH 19TH STREET CANAL, 63.12 FEET, THENCE RUN SOUTH 17E NORTH RIGHT-OF-WAY LINE OF GUINCY AVENUE, 20.05 FEET;
THENCE RUN SOUTH 125' WEST, PARALLEL WITH THE MORTH RIGHT-OF-WAY LINE OF THE SOUTH 19TH STREET CANAL, 180.00 FEET TO THE NORTH RIGHT-OF-WAY LINE OF GUINCY AVENUE, 20.05 FEET;
THENCE RUN NORTHWESTERLY ALONG SAID CURVE TRIBODOR A CENTRAL ANGLE OF 19'25'59; AN ARC DISTANCE OF 32.22 FEET TO THE EAST LINE OF THE SOUTH 19TH STREET CANAL, 837.71
FEET TO THE POINT OF BEGINNING.

A PART OF LAWNWOOD ADDITION SUBDIVISION, AS RECORDED IN PLAT BOOK 2, PAGE 16, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, BEING GEOMETRICALLY DESCRIBED AS FOLLOWS:

COMMENCING (P.O.C.) AT THE SOUTHWEST CORNER OF A 16 FOOT ALLEY RUNNING EAST AND WEST THROUGH BLOCK 31, OF SAID LAWNWOOD ADDITION SUBDIVISION, THENCE RUN SOUTH 19TH STREET CANAL RIGHT-OF-WAY, 215J.02 FEET TO THE POINT OF BEGINNING (P.O.B.); THENCE RUN NORTH DYZS' EAST ALONG THE EAST LINE OF THE SOUTH 19TH STREET CANAL 334.00 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF LAWNWOOD DIRCLE SOUTH; THENCE RUN SOUTHEASTERLY ALONG A CURVE CONCAVE TO THE NORTHEAST HAWNG A RADIUS OF 155 FEET, THENCE RUN SOUTH ASTAIL ANGLE OF 1270754", AN ARC DISTANCE OF 32.82 FEET TO A POINT OF TANGENCY, SAID CURVE HAWNG A CHORD BEARING OF SOUTH 83724" EAST AND A CHORD THE SOUTHERLY RIGHT-OF-WAY LINE OF OUNCY AVENUE. 317.37 FEET, THE LAST TWO (2) DESCRIBED COURSES BEING ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF OUNCY AVENUE. 317.37 FEET, THE LAST TWO (2) DESCRIBED COURSES BEING ALONG THE SOUTH-RIGHT-OF-WAY LINE OF OUNCY AVENUE. 350 FEET TO THE POINT OF BEGINNING.

SAID PARCELS (1-3) CONTAIN 15.66 ACRES, MORE OR LESS (15.52 NET ACRES).



C-1.0	COVER SHEET
C-2.0	GENERAL NOTES
C-3.0	EXISTING CONDITIONS
C-4.0	EROSION CONTROL PLAN
C-4.1	EROSION CONTROL DETAILS
C-5.0	OVERALL SITE PLAN
C-5.1-5.3	SITE PLAN
C-6.0-6.2	PAVING, GRADING AND DRAINAGE PLAN
C-7.0	OVERALL UTILITY PLAN
C-7.1-7.3	UTILITY PLAN
C-8.0-8.1	CONSTRUCTION DETAILS
C-8.2-8.3	PGD DETAILS
C-8.4-8.5	FORT PIERCE UTILITY AUTHORITY DETAILS
C-9.0	PHOTOMETRIC PLAN
C-9.1	PHOTOMETRIC CUT SHEETS
L0-1.00	LANDSCAPE NOTES
L1-1.00	LANDSCAPE PLAN
L1-1.01	LANDSCAPE PLAN
L1-1.02	LANDSCAPE DETAILS
L1-1.03	PLANTING LIST
L1-1.04	PLANTING LIST
S-1	BOUNDARY SURVEY



ENGINEER'S PROJECT NO. 2017-004



BUSINESS NO. 32108

WOHLFARTH CONSULTING GROUP LLC ENGINEERS & PLANNERS

246 N. WESTMONTE DRIVE ALTAMONTE SPRINGS, FL 32714 (407) 750-3123

NCY	PERMIT TYPE	DATE APPROVED	APPROVAL NO.	EXPIRATION DATE
	FDP			
)	ERP			
	WATER			
	SEWER			

PERMITS REQUIRED

REV.

NOT TO BE FILED FOR RECORD UNLESS SIGNED AND DATE WITH THE ORIGINAL SEAL OF RICHARD C. WOHLFARTH, FLORIDA P.E. #20044

GENERAL NOTES

- 1. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS:
- CITY OF FT. PIERCE FLORIDA
- ST. LUCIE COUNTY, FLORIDASOUTH FLORIDA WATER MANAGEMENT DISTRICT
- FLORIDA DEPARTMENT OF TRANSPORTATION
- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
- 2. THE GEOTECHNICAL REPORT SHALL BE REVIEWED BY THE CONTRACTOR, AND THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, THE WORK REQUIRED, AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK
- 3. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
- 3. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
- 7. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT—OF—WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT—OF—WAY. IN ADDITION, CONTRACTOR SHALL OBTAIN GAS I.D. NUMBER FROM LOCAL GAS COMPANY AND NOTIFY SUNSHINE STATE ONE—CALL UTILITY NOTIFICATION CENTER AT 1—800—432—4770 AT LEAST 48 HOURS PRIOR TO START OF WORK.
- 8. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT—OF—WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AND SUBMIT TO THE COUNTY ENGINEER FOR APPROVAL.
- 9. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND/OR OWNER OR OWNER'S AGENT.
- 10. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.
- 11. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS, USE, THEFT, OR VANDALISM. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
- 13. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY THEIR MANUFACTURER'S.
- 14. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORM WATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND/OR TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
- 15. CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY
- 16. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
 - A. ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY:
 - B. ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS;
 - C. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION
- 17. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
- 18. ALL DAMAGE OR LOSS TO ANY PROPERTY CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- 19. THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- 20. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
- 21. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC—CARRYING ROADS.
- 22. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
- 23. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL MATERIALS (HAZARDOUS OR OTHERWISE) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.

- 24. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 25. THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
- 26. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS CONTRACT.
- 27. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THESE CONSTRUCTION DOCUMENTS.
- 28. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THESE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER & ENGINEER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY, OWNER & ENGINEER AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 29. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER AND/OR ENGINEER IN WRITING.
- 30. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
- 31. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS, DEVIATIONS OR OMISSIONS TO THESE CONSTRUCTION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- 32. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND ALL OTHER RELATED COSTS.

HANDICAP ACCESSIBILITY NOTES:

- 1. ALL CONSTRUCTION MUST MEET OR EXCEED ALL REQUIREMENTS AS OUTLINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FLORIDA ACCESSIBILITY CODE, MOST RECENT EDITIONS. BOTTOM OF CURB RAMP ELEVATION (B.O. RAMP) IS RELATIVE TO EACH CURB RAMP CONDITION. ACTUAL ELEVATIONS SHALL BE BASED ON EXISTING GRADE OF CURB FLOW LINE AT THE B.O. RAMPS.
- 2. TOP OF CURB ELEVATION ADJACENT TO B.O. RAMP = 0.50 FT. MAX. UNLESS OTHERWISE NOTED.
- 3. ADA REQUIREMENTS SUPERSEDE SPOT GRADES AT LOT LINES. CONTRACTOR TO CUT BACK SLOPE AT 3:1 OR FLATTER AS NEEDED FOR RAMP AND SIDEWALK CONNECTION.
- 4. REFER TO PLAN SHEETS AND SECTIONS FOR LOCATIONS AND SIDEWALK WIDTHS.
- 5. THE DETECTABLE WARNING STRIP SHALL CONSIST OF A 24 INCH WIDE TACTILE PATTERN OF RAISED TRUNCATED DOMES (ALIGNED PATTERN). DOMES SHALL HAVE A DIAMETER OF 0.9 INCH, A HEIGHT OF 0.2 INCH, AND A CENTER TO CENTER SPACING OF 2.35 INCHES. THE RAMP DETECTABLE WARNING STRIP SHALL BE CONTRASTING IN COLOR. THE MATERIAL USED TO PROVIDE CONTRAST SHALL CONTRAST BY AT LEAST 70%.
- 6. THE CROSS SLOPE OF RAMP SURFACES AND ADJACENT STREET GRADES SHALL BE NO MORE THAN 1:50 OR 2% MAXIMUM
- 7. CURB RAMPS CONSTRUCTED BY THE CONTRACTOR SHALL MEET ALL CURRENT APPLICABLE A.D.A. REQUIREMENTS AND SHALL HAVE DETECTABLE WARNING COMPLYING WITH A.D.A. REQUIREMENTS. ACCESSIBILITY ROUTES SHALL MEET ALL APPLICABLE A.D.A. REQUIREMENTS.
- 8. CONTRACTOR TO REFER TO MUNICIPALITY DETAILS AS NEEDED
- 9. DRIVEWAY/ROADWAY CROSS SLOPES AT CROSSWALKS SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 10. SIDEWALK CROSS SLOPES SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 11. CURB RAMP FLARES & LANDINGS SHALL MEET ADA REQUIREMENTS.
- 12. ACCESSIBLE ROUTE WITH RUNNING SLOPES GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH ADA RAMP REQUIREMENTS.
- 13. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO MEET ALL CURRENT ADA STANDARDS. CONTRACTOR SHALL REFER TO FDOT STANDARDS. (INDEX 304, MOST CURRENT EDITION)

RECORD DRAWING AS-BUILT REQUIREMENTS:

AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED (SIGNED AND SEALED) BY A REGISTERED SURVEYOR, AND SHALL BE PROVIDED TO THE ENGINEER OF RECORD UPON COMPLETION OF THE PROJECT SITE IMPROVEMENTS A MINIMUM OF 1 WEEK PRIOR TO CONTRACTORS ATTEMPT FOR FINAL CERTIFICATE OF OCCUPANCY (CO). AS-BUILT DRAWINGS SHALL REFLECT ANY CHANGES TO THE IMPROVEMENTS MADE DURING CONSTRUCTION AND MUST MEET THE MINIMUM REQUIREMENTS OF ALL REGULATORY AGENCIES HAVING JURISDICTION AS WELL AS THE CRITERIA OUTLINED BELOW. BOTH THE ORIGINAL DESIGN AND REVISED AS-BUILT DATA, AS APPLICABLE, MUST BE CLEARLY SHOWN. THE AS-BUILT DRAWINGS MUST BE CLEARLY LABELED AS AS-BUILT OR RECORD DRAWING. THE FOLLOWING INFORMATION, AT A MINIMUM, SHALL BE CERTIFIED ON THE AS-BUILT DRAWINGS:

WATER DISTRIBUTION SYSTEM:

A. LOCATION AND DIMENSIONS OF PIPES, VALVES, FITTINGS, CHANGE OF DIRECTION, AND OTHER ASSOCIATED FACILITIES.

WASTEWATER COLLECTION/TRANSMISSION SYSTEM:

A. LOCATION, DIMENSION, AND INVERT ELEVATIONS OF PIPES, MANHOLES (INCLUDING RIM ELEVATION), LIFTSTATION, FORCEMAIN, FITTINGS, CHANGE IN DIRECTION AND OTHER ASSOCIATED FACILITIES.

PAVING AND DRAINAGE SYSTEM:

- A. DIMENSIONS AND ELEVATIONS OF ALL DISCHARGE STRUCTURES INCLUDING ALL WEIRS, SLOTS, GATES, PIPES, AND SKIMMERS;
- B. LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL FILTER, EXFILTRATION, OR UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES, AND POINTS OF DISCHARGE TO THE RECEIVING WATERS;
- C. DIMENSIONS, ELEVATIONS, CONTOURS, OR CROSS—SECTIONS OF ALL STORMWATER TREATMENT POND STORAGE AREAS SUFFICIENT TO DETERMINE STAGE—STORAGE RELATIONSHIPS OF THE STORAGE AREA, AND THE POND DEPTH AND VOLUME BELOW THE CONTROL WATER ELEVATION FOR NORMALLY WET SYSTEMS;
- D. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS—SECTIONS OF THE DRAINAGE SYSTEM IMPROVEMENTS TO DETERMINE FLOW DIRECTIONS AND CONVEYANCE OF RUNOFF TO THE TREATMENT
- E. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS—SECTIONS OF ALL CONVEYANCE SYSTEMS UTILIZED TO CONVEY OFF—SITE RUNOFF AROUND THE SYSTEM;
- F. EXISTING WATER ELEVATION OF SURFACE WATERS AND THE DATE DETERMINED;
- G. ELEVATION AND LOCATION OF BENCHMARK'S FOR THE SURVEY.

ADA FACILITIES:

- A. ELEVATIONS AT THE FOUR CORNERS OF ALL HANDICAP PARKING SPACES AND ADJACENT LOADING AISLES.
- B. ELEVATIONS AND LOCATIONS FOR ALL ACCESSIBLE RAMPS WHICH ADEQUATELY REFLECT THE BUILT SLOPES.
- C. ELEVATIONS AND LOCATIONS ALONG THE PATHS OF CONVEYANCE FOR PEDESTRIAN TRAFFIC AND ALL ADA ACCESSIBLE ROUTES EVERY 25 FT. WHICH ADEQUATELY REFLECT THE SLOPE AND CROSS SLOPE.

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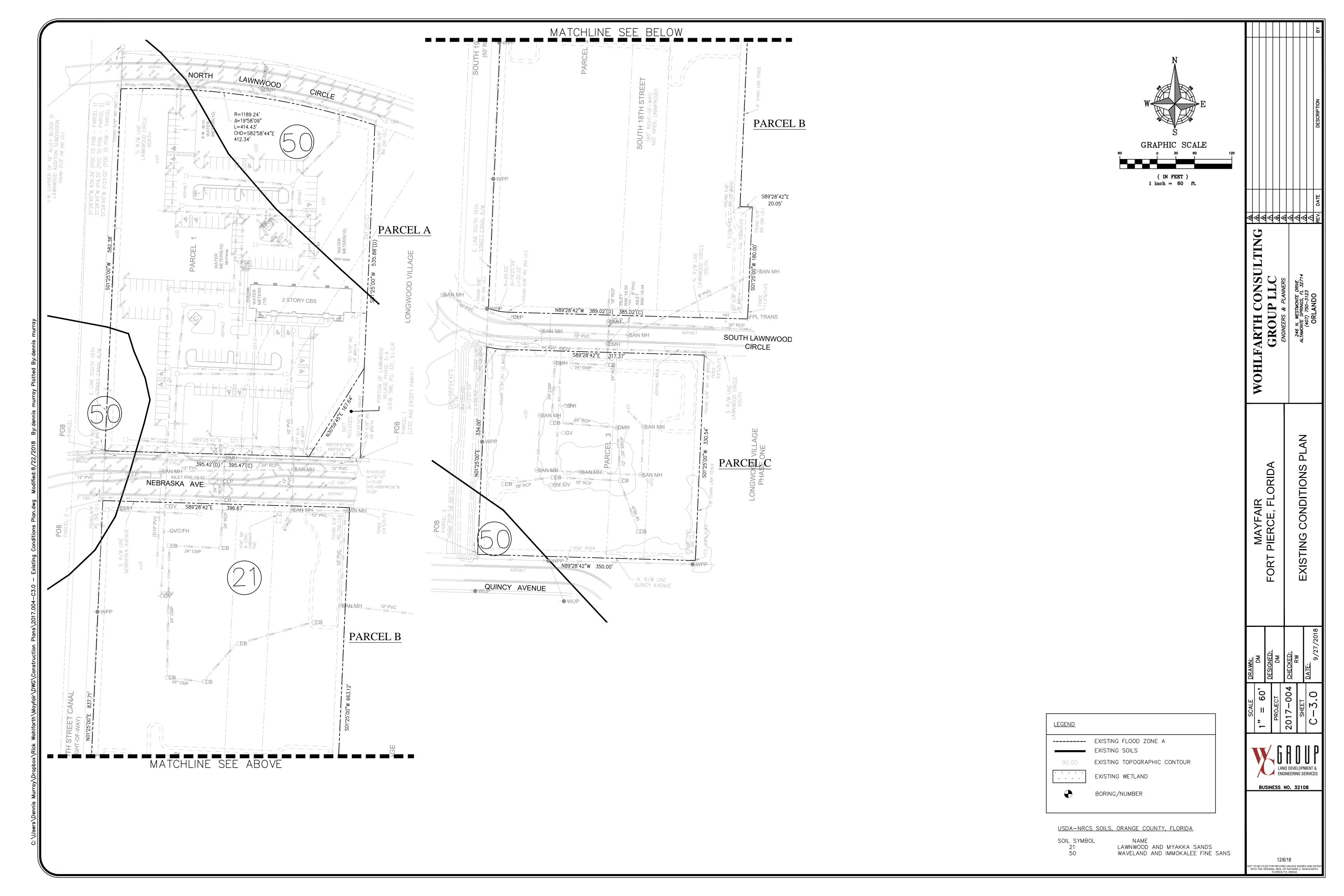
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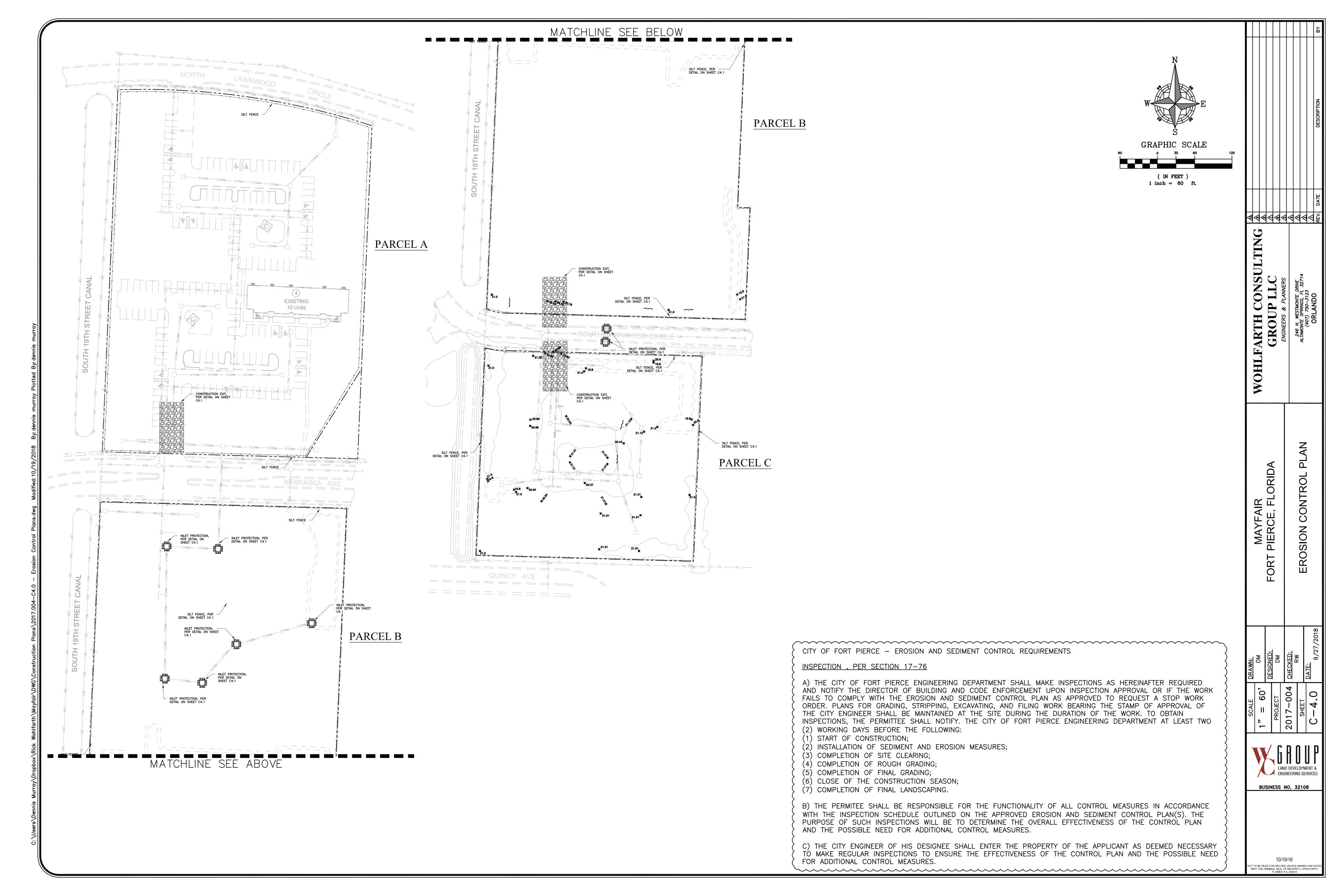
LAND DEVELOPMENT & ENGINEERING SERVICES

BUSINESS NO. 32108

8/22/18

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WITH THE ORIGINAL SEAL OF RICHARD C. WOHLFAR
FLORIDA P.E. #20044





EROSION CONTROL NOTES

DURING ALL PHASES OF CONSTRUCTION THE SITE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL EXERCISE MEASURES TO PREVENT THE EROSION OF SOILS DUE TO THE ACTION OF THE WATER AND WIND. THE CONTRACTS SHALL USE THE FOLLOWING MEASURES TO ACCOMPLISH THIS OBJECTIVE:

A. SURFACE PROTECTION 1. CLEARING SHALL BE LIMITED SO AS TO EXPOSE THE SMALLEST POSSIBLE AREA OF LAND FOR THE SHORTEST POSSIBLE TIME.

> 2. EXPOSED AREAS SHALL BE IMMEDIATELY GRADED AND PRO-TECTED WITH TEMPORARY OR PERMANENT COVER, SUCH AS SOD, SEED AND MULCH, CROWVETCH, LESPEDEZA OR CREEPER. NEWLY GRADED CHANNELS OR STEEP SLOPES WILL REQUIRE THE USE OF FIBROUS MATTING, NETTING OF SEEDED AND MULCHED AREAS, OR THE STAKING OR SHINGLING OF SOD WHILE

VEGETATION IS BECOMING ESTABLISHED.

B. RUN-OFF CONTROL 1. LONG AND/OR STEEP SLOPES WILL REQUIRE CONTOUR BENCHING AND FURROWING, OR BERMS TO REDUCE RUN-OFF VELOCITIES.

FLOATING SILT CURTAINS.

1. THE TRAPPING OF ERODED PARTICLES WILL BE ACCOMPLISHED C. SEDIMENT TRAPPING BY THE DIVERSION OF RUN-OFF TO SEDIMENT BASINS. EXCAVATION TRAPS, BERMS, STAKED SYNTHETIC HAY BALES, OR

PLACEMENT OF ANY IMPERVIOUS SURFACE.

2. THE PROPOSED RETENTION AND/OR DETENTION POND(S) ALONG WITH ANY ENVIRONMENTAL BERM(S)/REAR YARD SWALE(S) SHALL BE CONSTRUCTED FIRST. THE POND(S) AND OUTFALL STRUCT-URE(S) MUST BE COMPLETE AND OPERATIONAL PRIOR TO THE

3. TRAPPING DEVICES SHALL BE PERIODICALLY INSPECTED DURING DRY PERIODS AND AFTER EACH RAINFALL EVENT BY THE SITE CONTRACTOR. TRAPPING DEVICES SHALL BE REPLACED IF DETERMINED TO BE INCAPABLE OF PERFORMING INTENDED FUNCTION OF SEDIMENT TRAPPING.

4. TRAPPING DEVICES SHALL REMAIN IN PLACE UNTIL A VEGETA-TIVE COVER HAS ESTABLISHED SUFFICIENTLY TO STABILIZE THE SOILS AND PREVENT EROSION.

D. SOIL MOISTURE

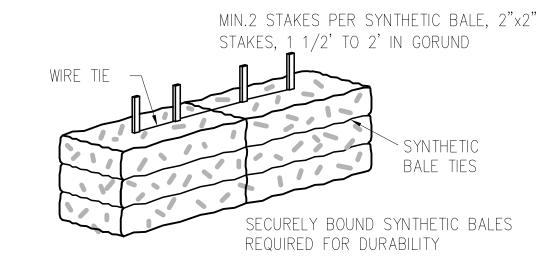
1. THE CONTRACTOR SHALL HAVE AVAILABLE ON THE CONSTRUCTION SITE A WATER SOURCE CAPABLE OF APPLYING WATER TO DRY EXPOSED SOIL IN ORDER TO PREVENT WIND EROSION. THE APPLICATION RATE AND MANNER SHALL BE SUCH THAT SOIL MOISTURE IS ATTAINED AND NO SURFACE RUN-OFF IS CREATED.

E. RESPONSIBILITY

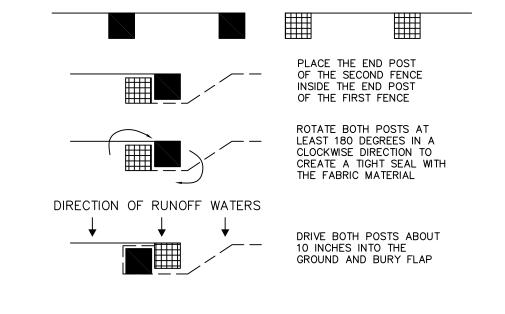
1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED. AFTER THAT, THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER COLLECTION AND RETENTION SYSTEM.

CONSTRUCTION SEQUENCE

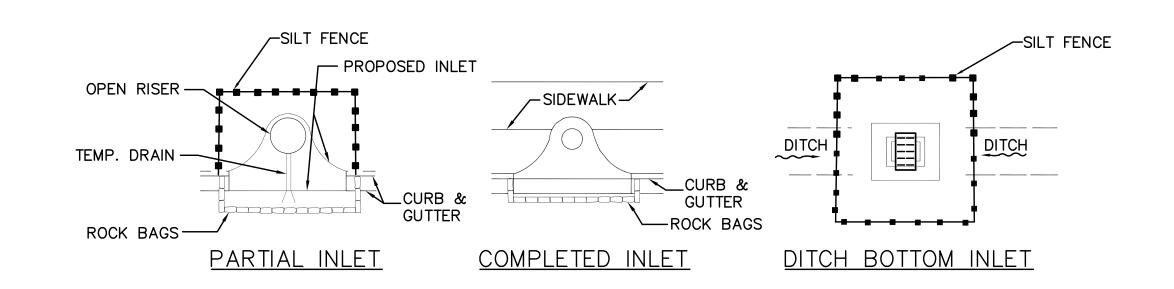
- 1. SET UP ON-SITE PRE-CONSTRUCTION CONFERENCE WITH CITY/COUNTY & ENGINEER
- 2. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 3. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES. CONTACT CYCORP ENGINEERING IF ADDITIONAL MEASURES ARE REQUIRED DUE TO SITE SPECIFIC CONDITIONS.
- 4. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE. 5. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY/COUNTY
- AND THE WATER MANAGEMENT DISTRICT, AND NPDES CRITERIA.



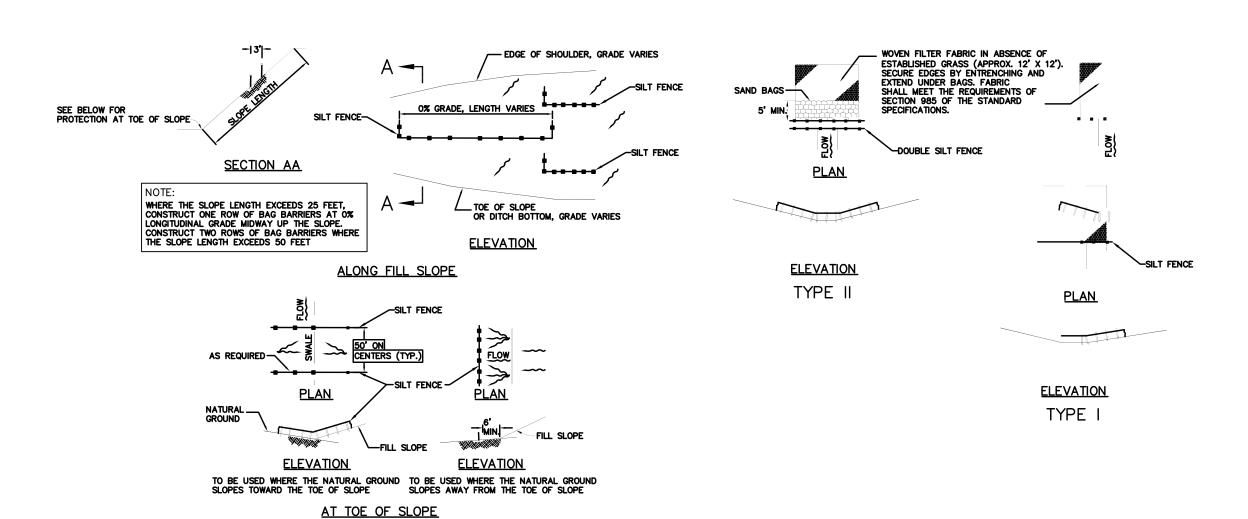
ANCHORING BALES



SILT FENCE ATTACHMENT DETAIL



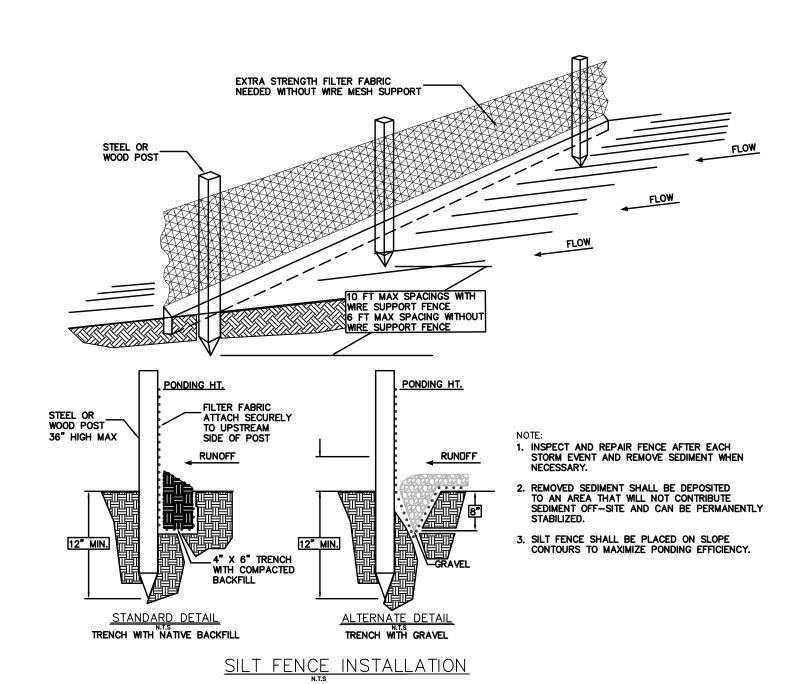
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

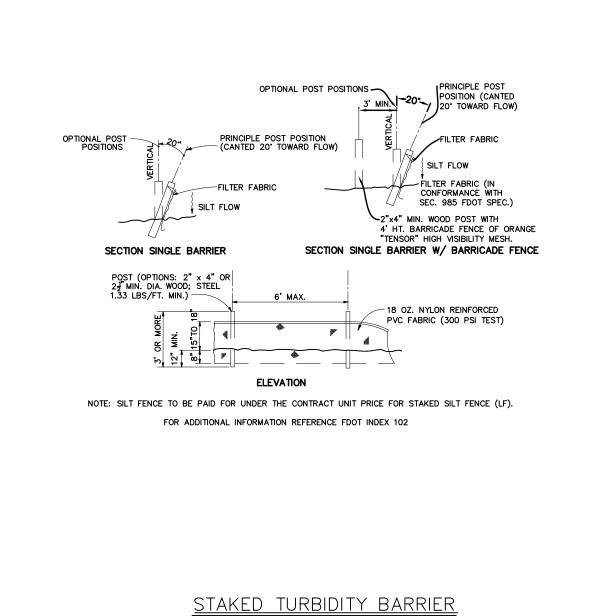


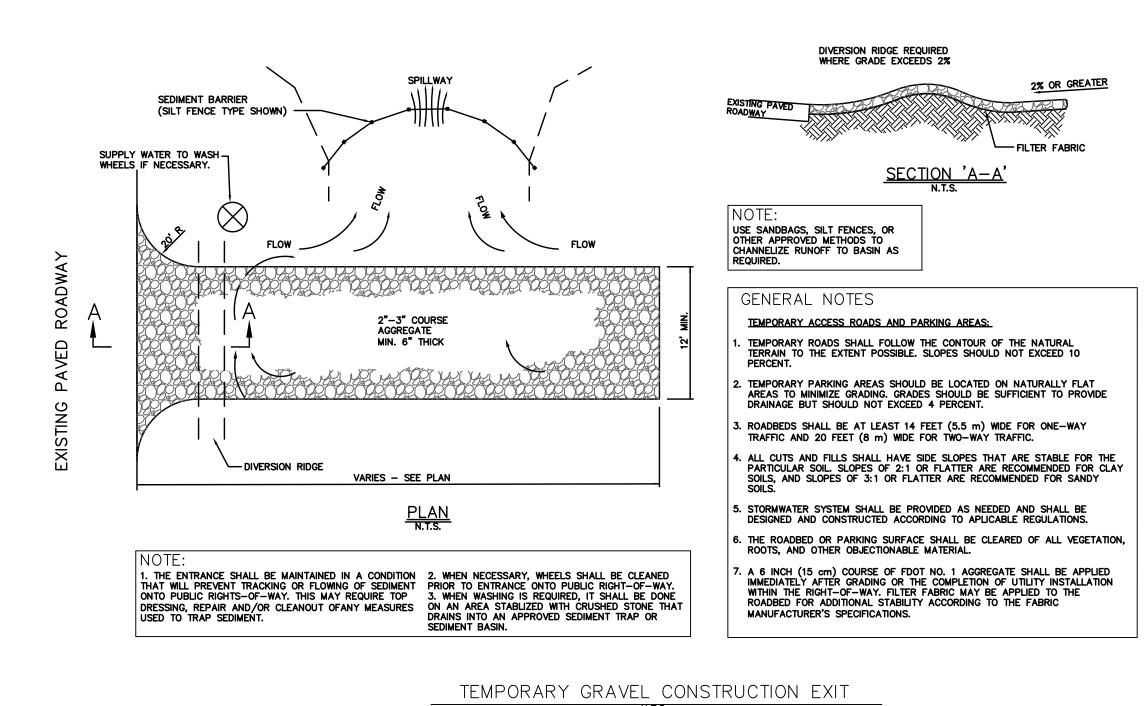
BARRIERS LAYOUT DETAIL

BARRIERS FOR FILL SLOPES

BARRIERS FOR UNPAVED DITCHES







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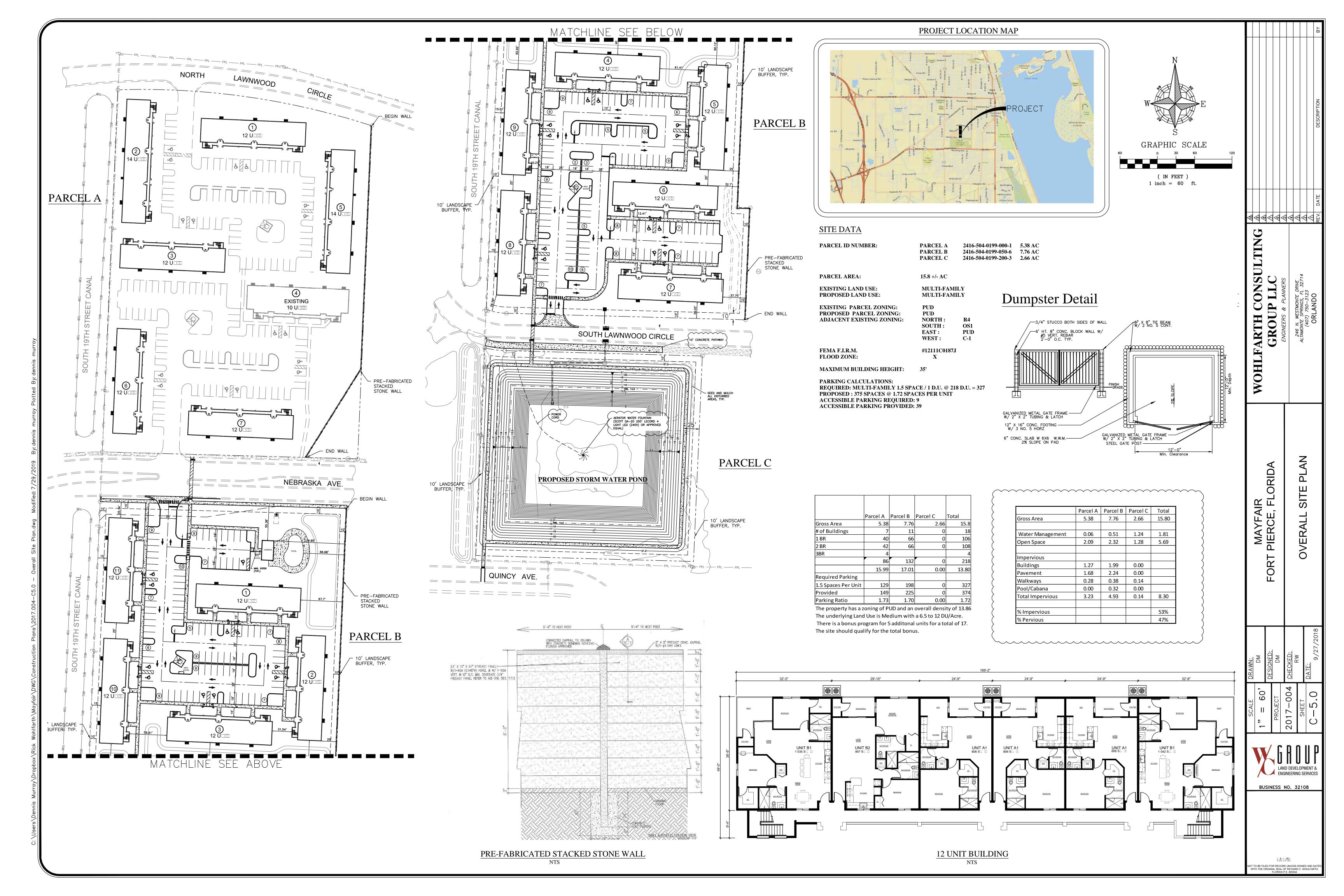
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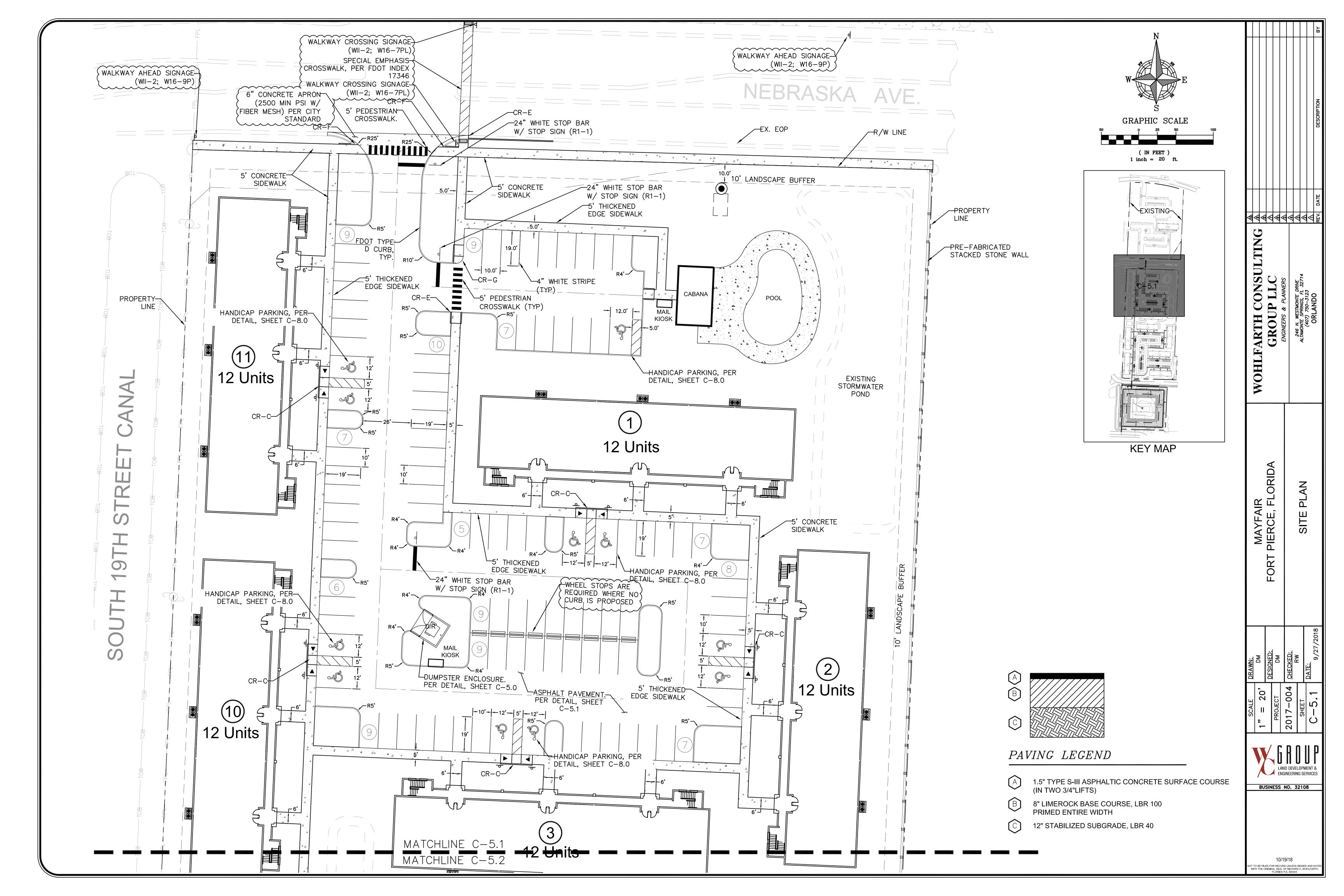
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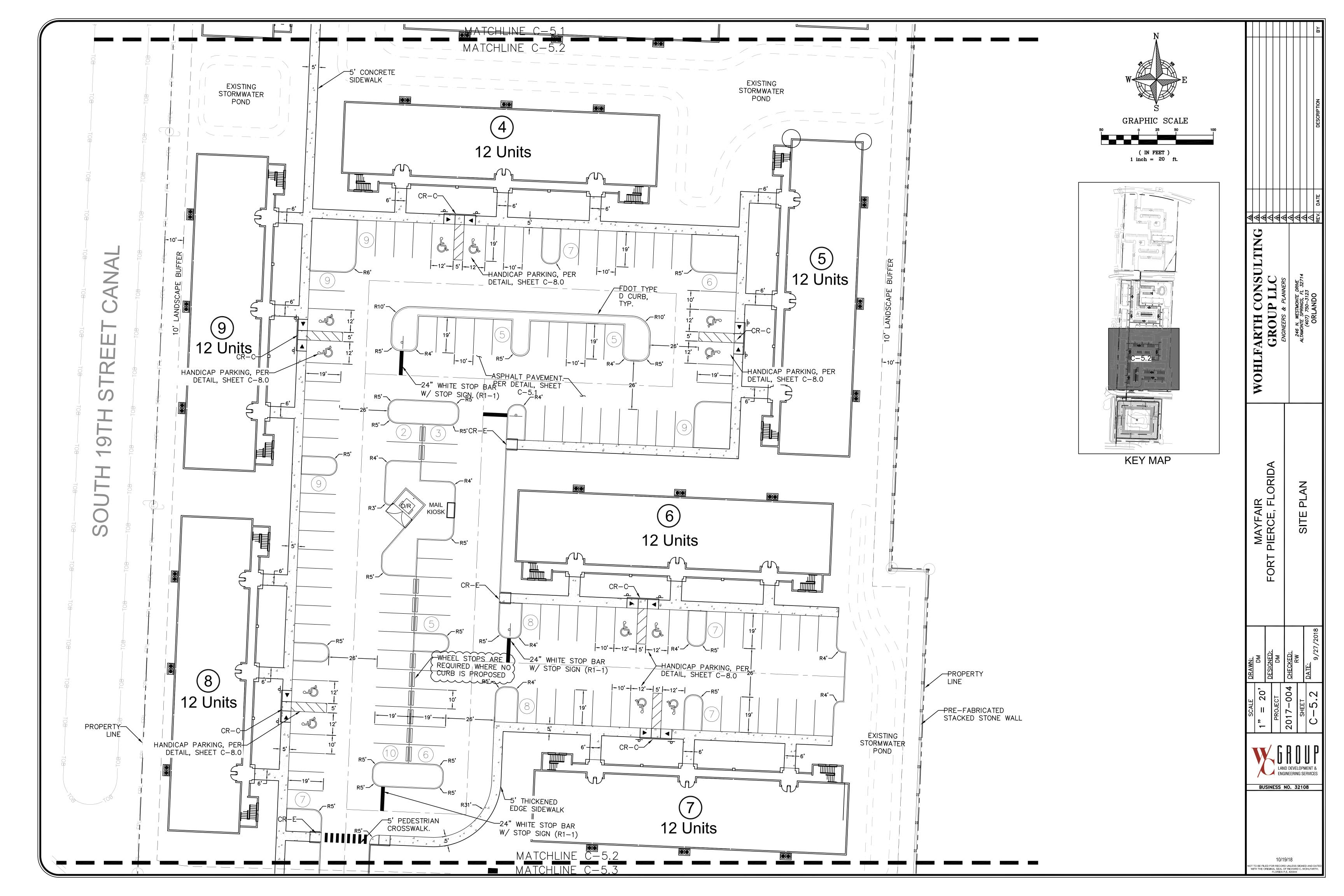
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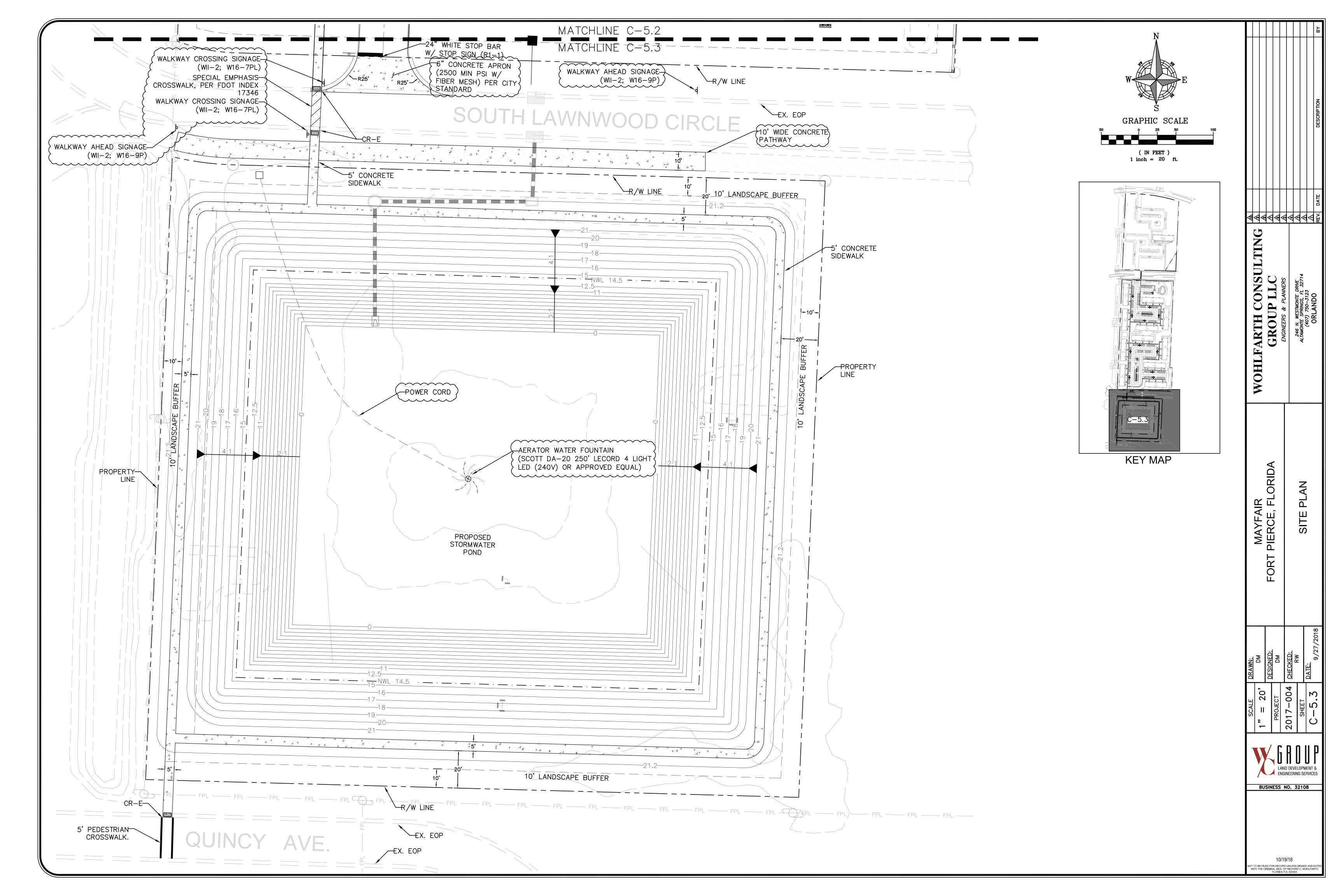
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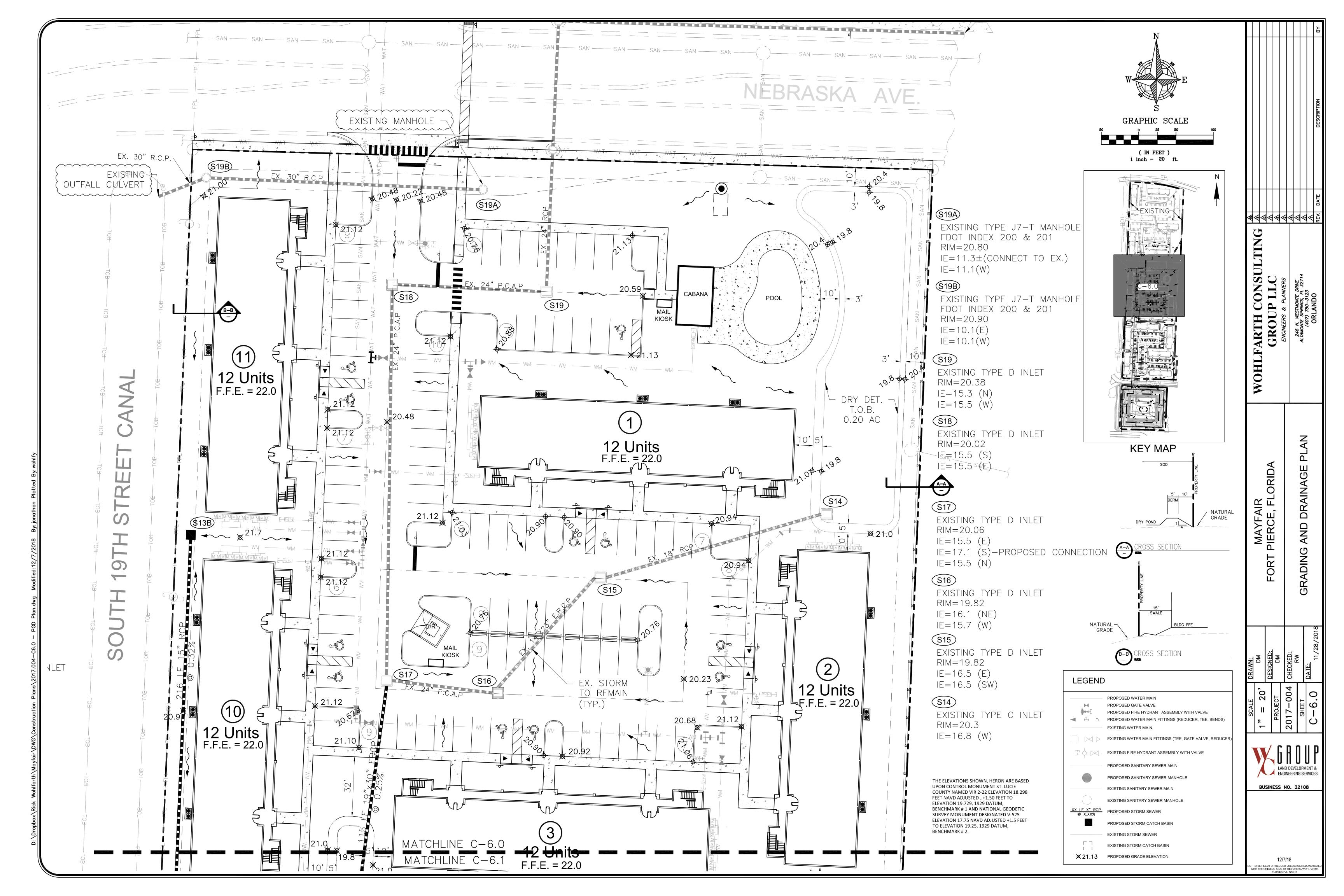
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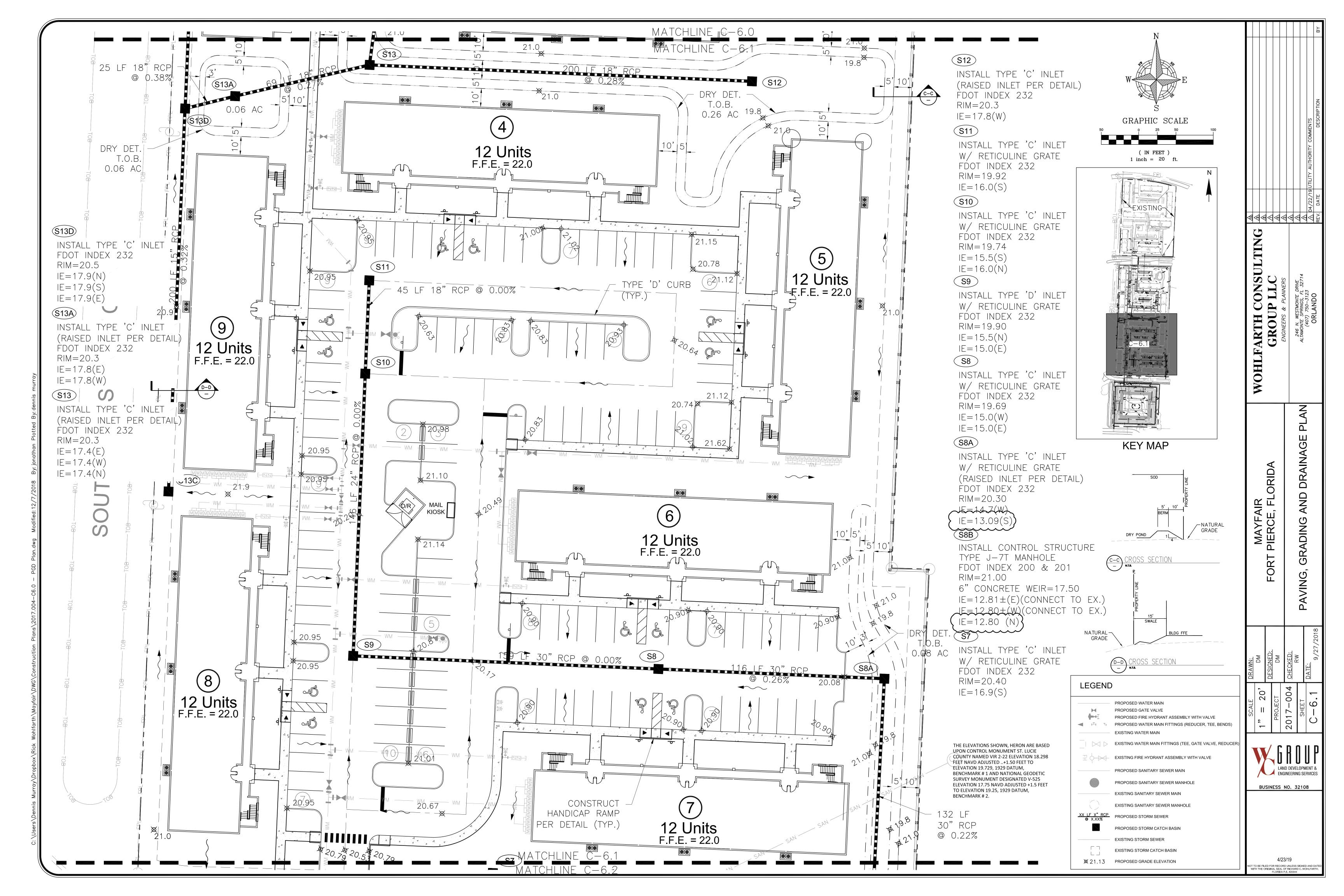


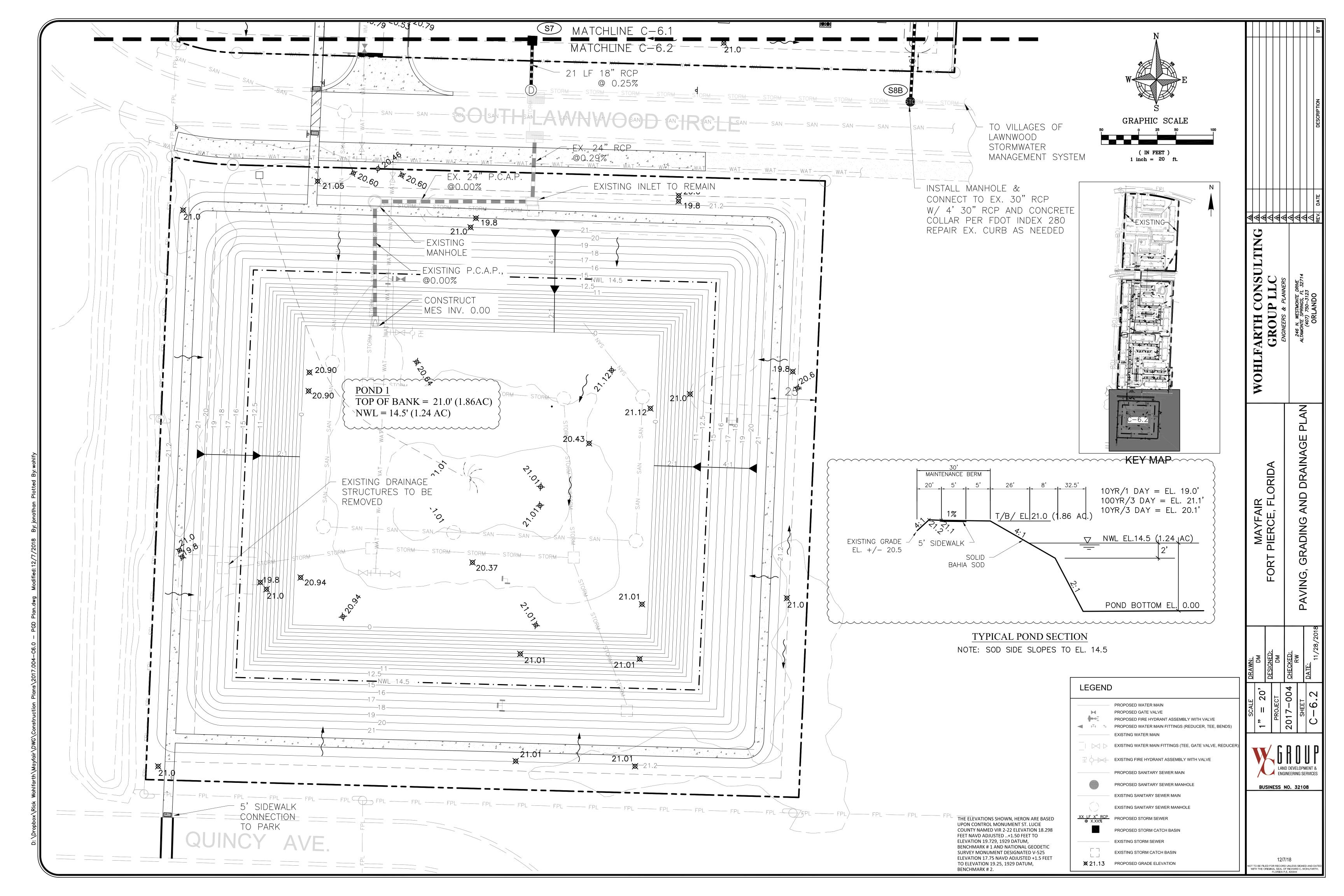


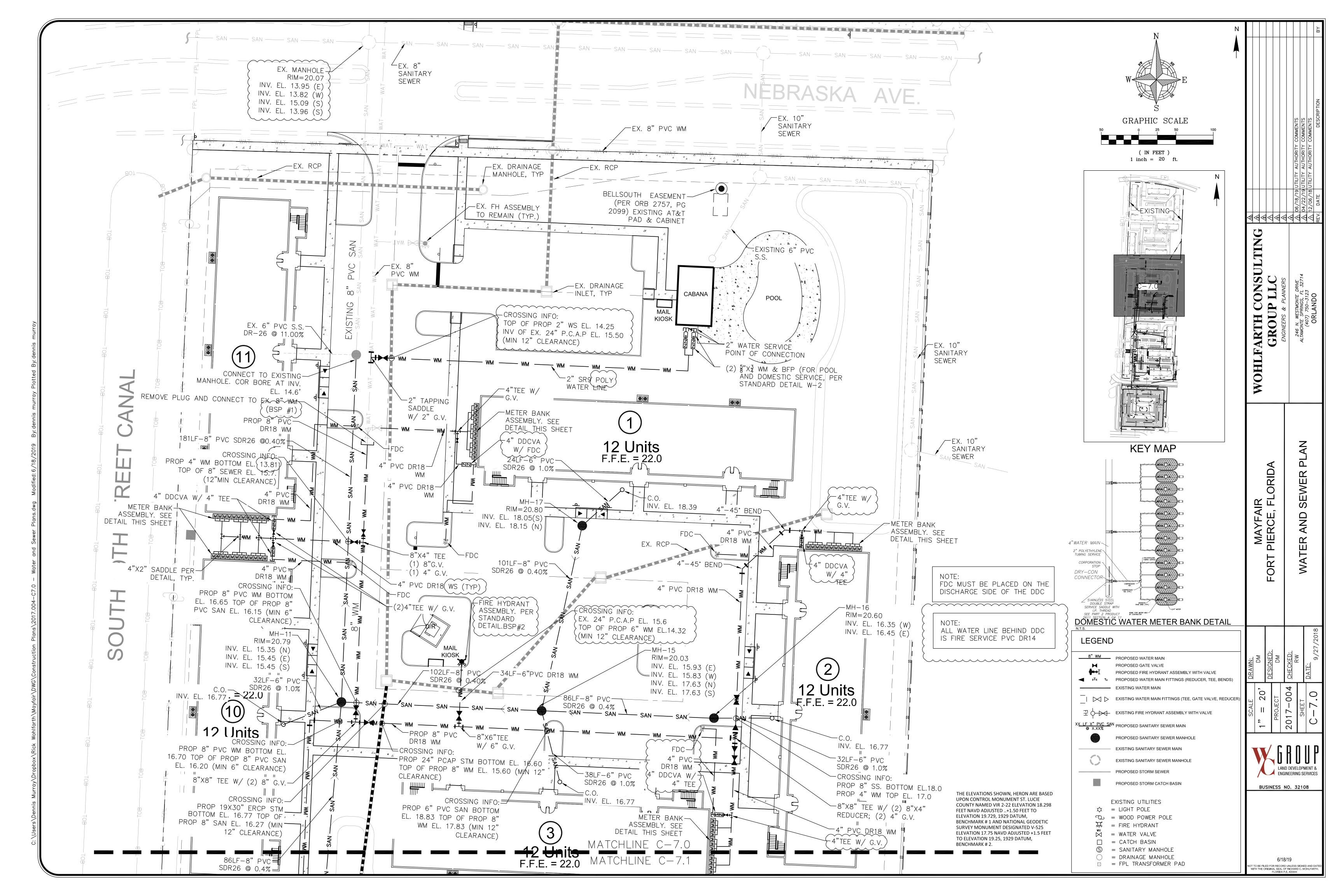


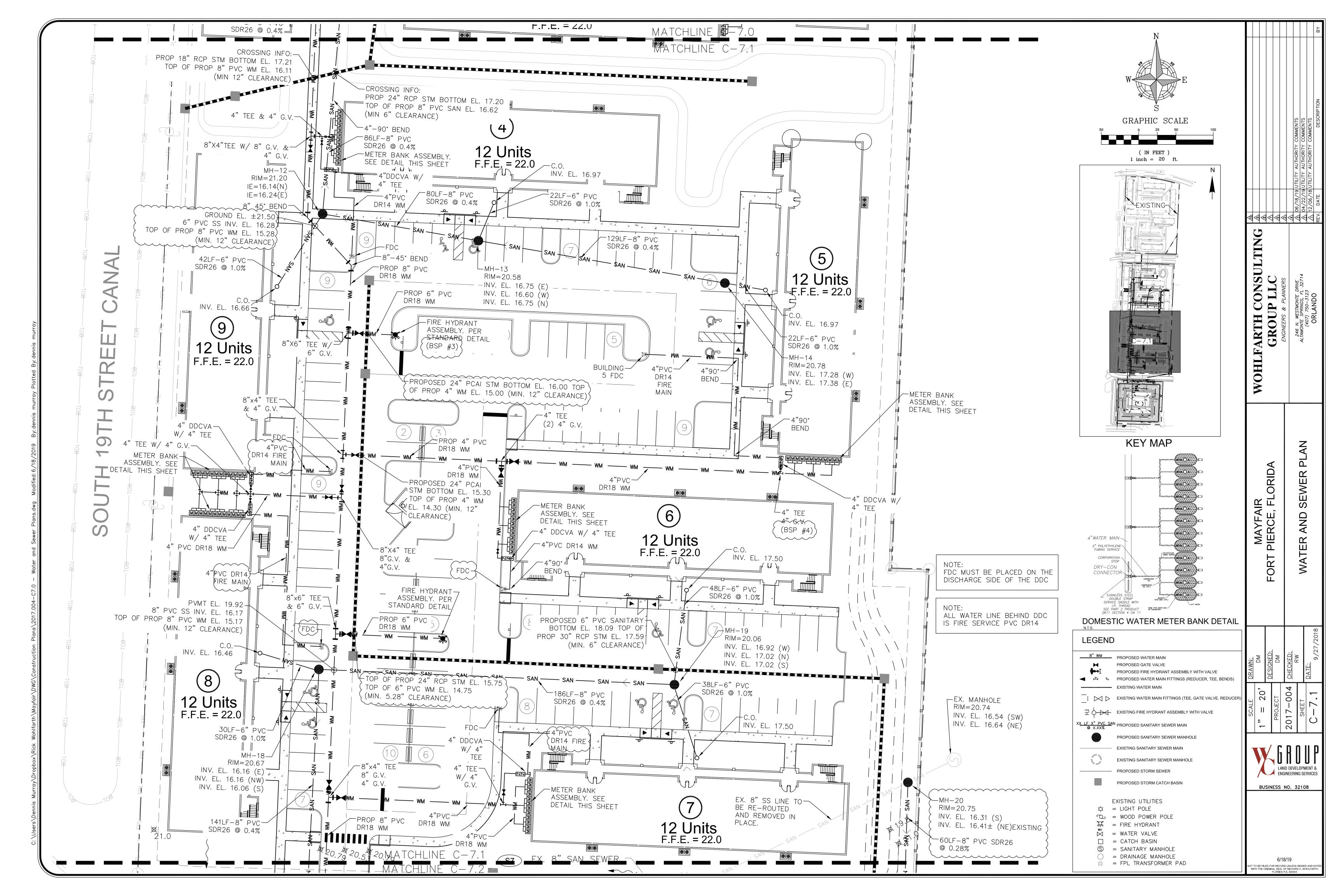


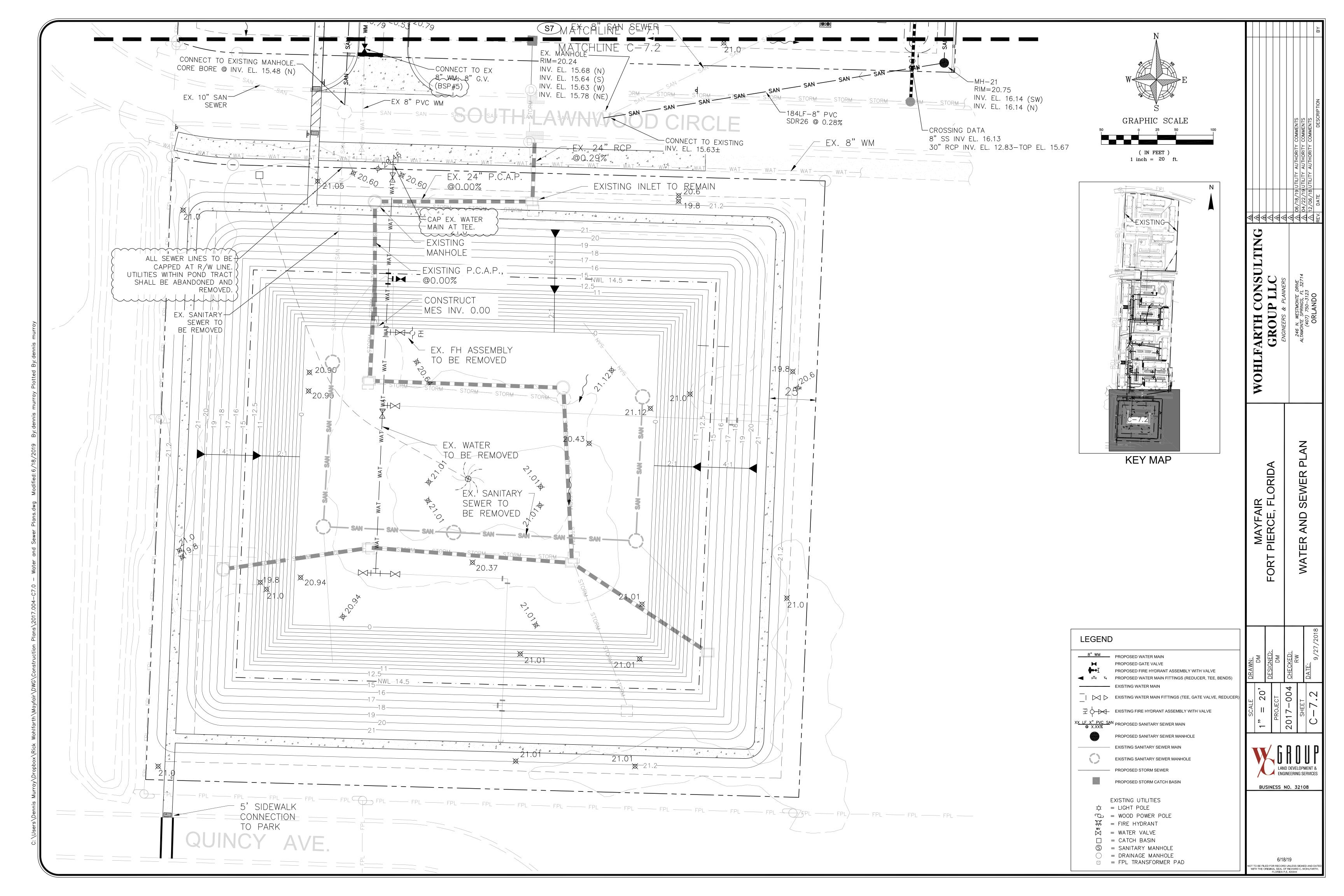


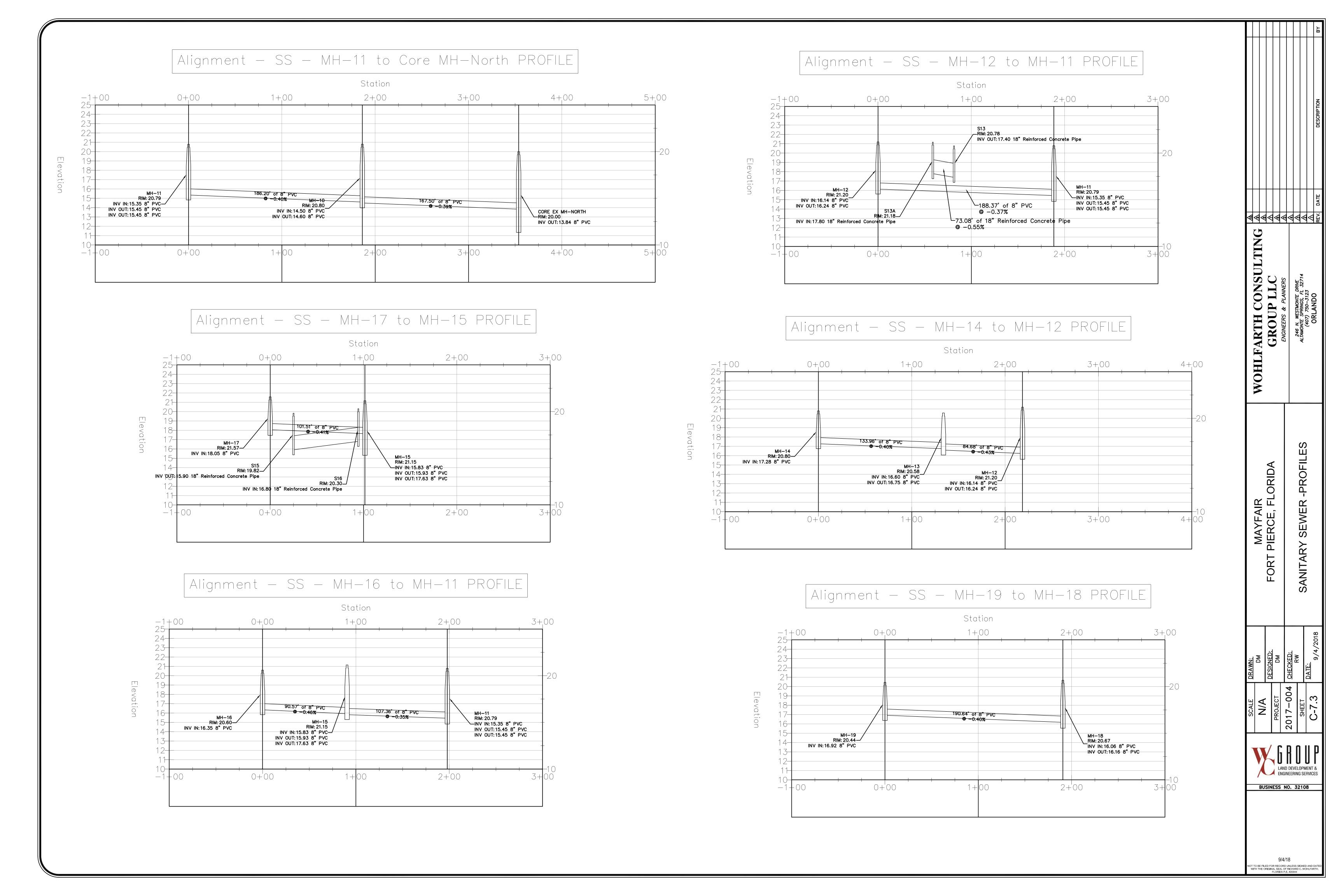




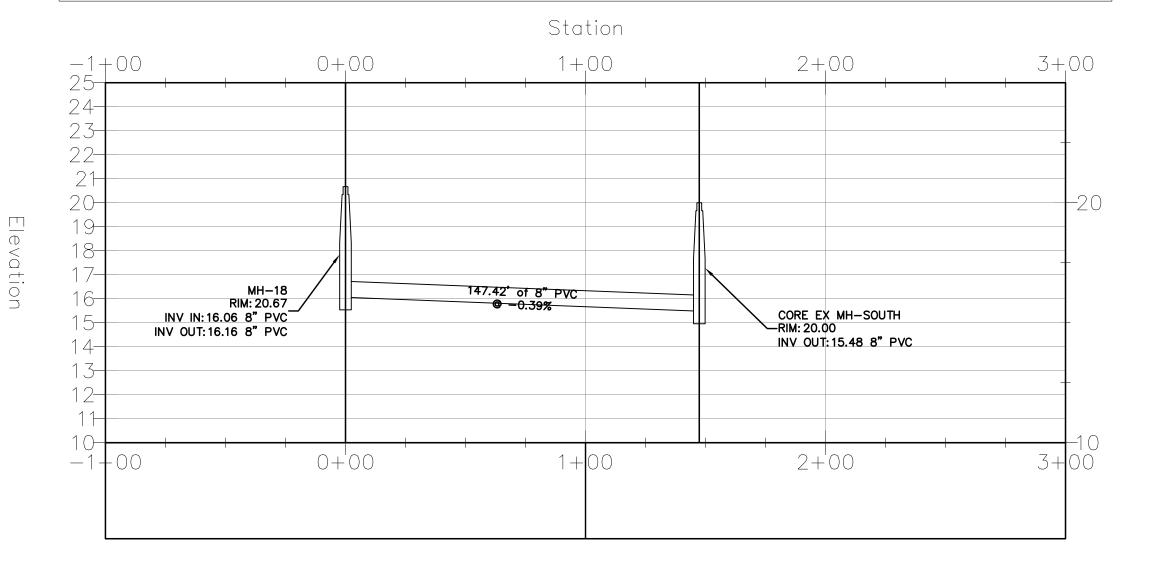








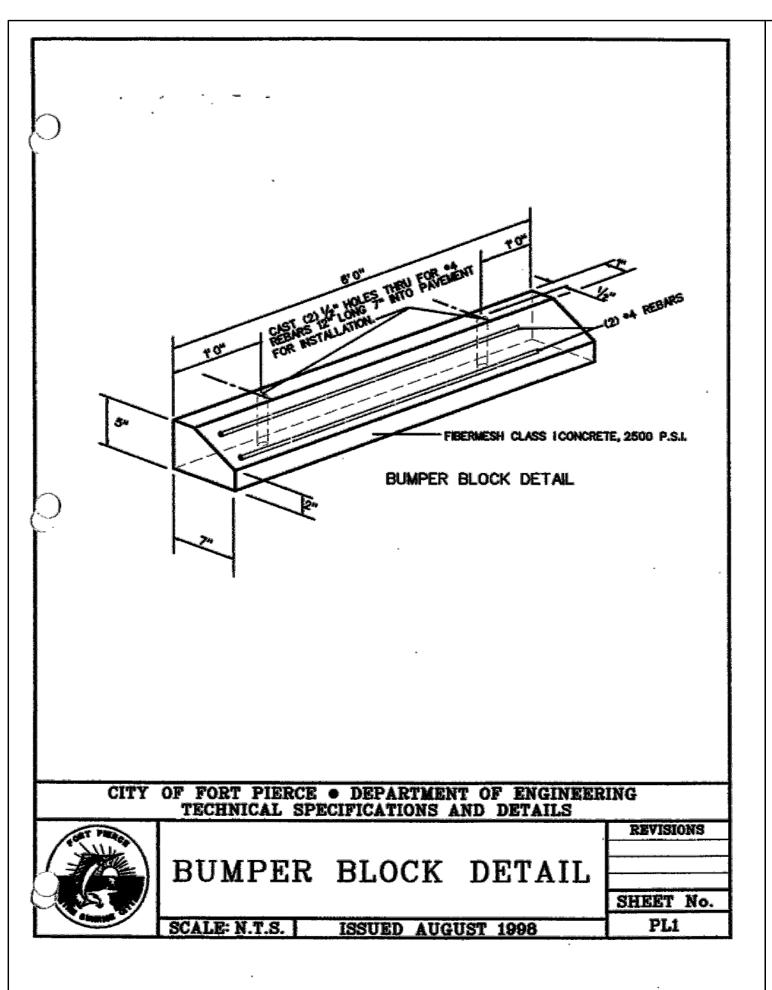
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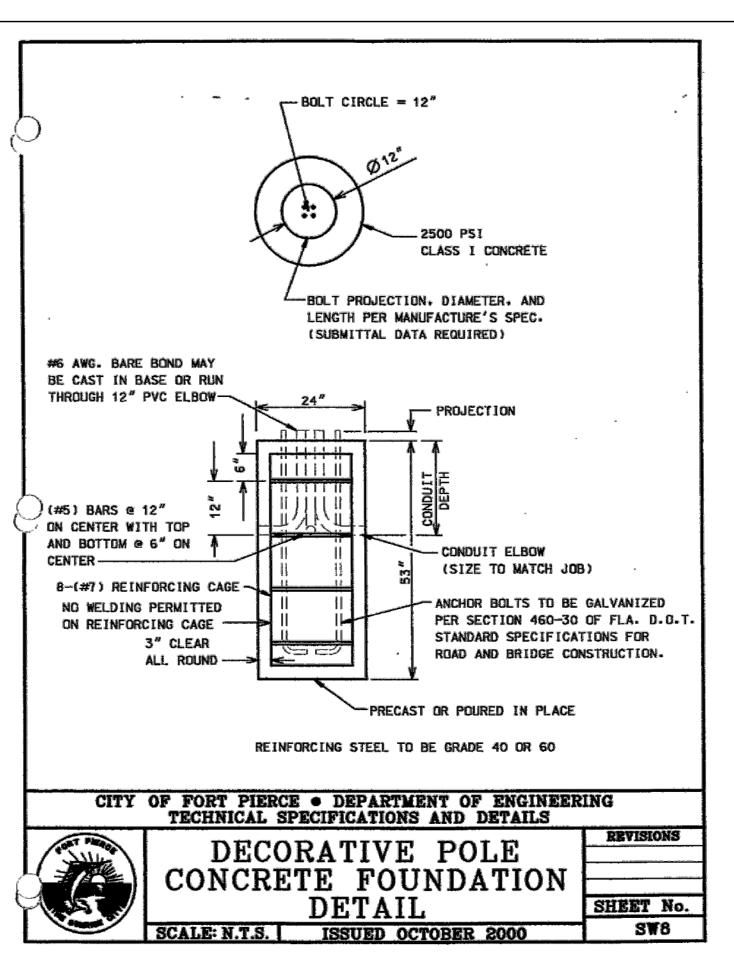


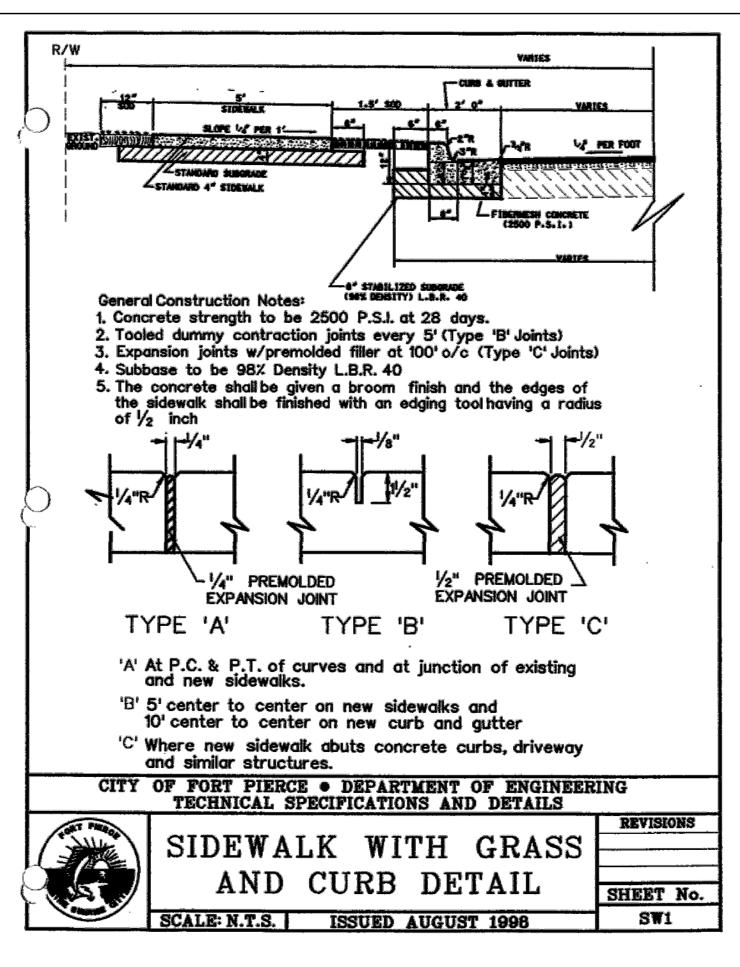
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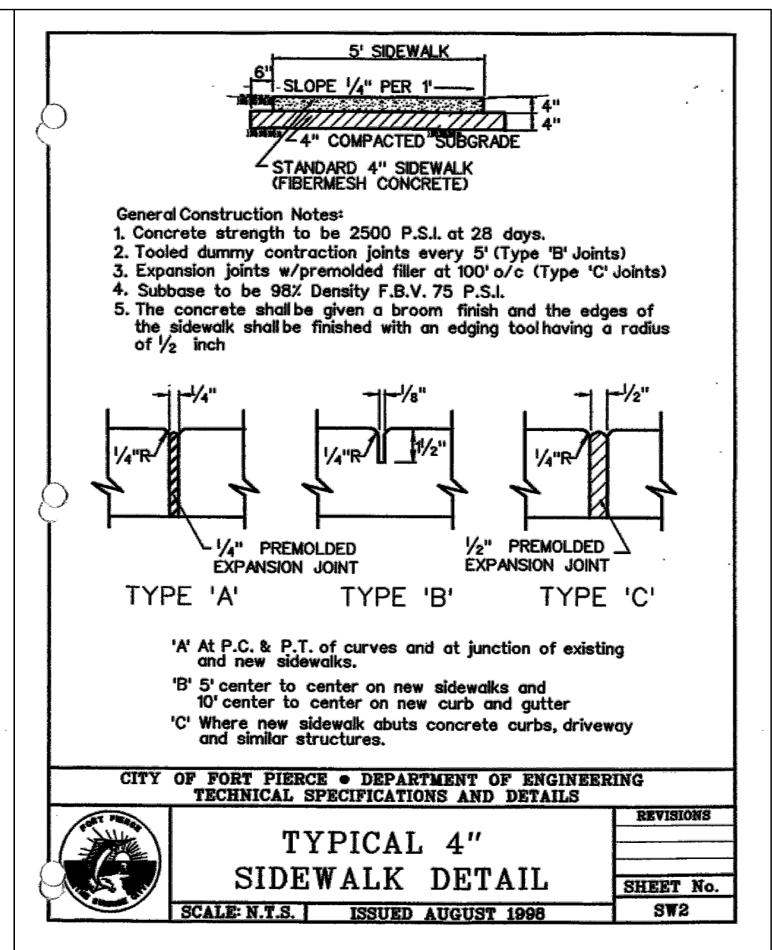
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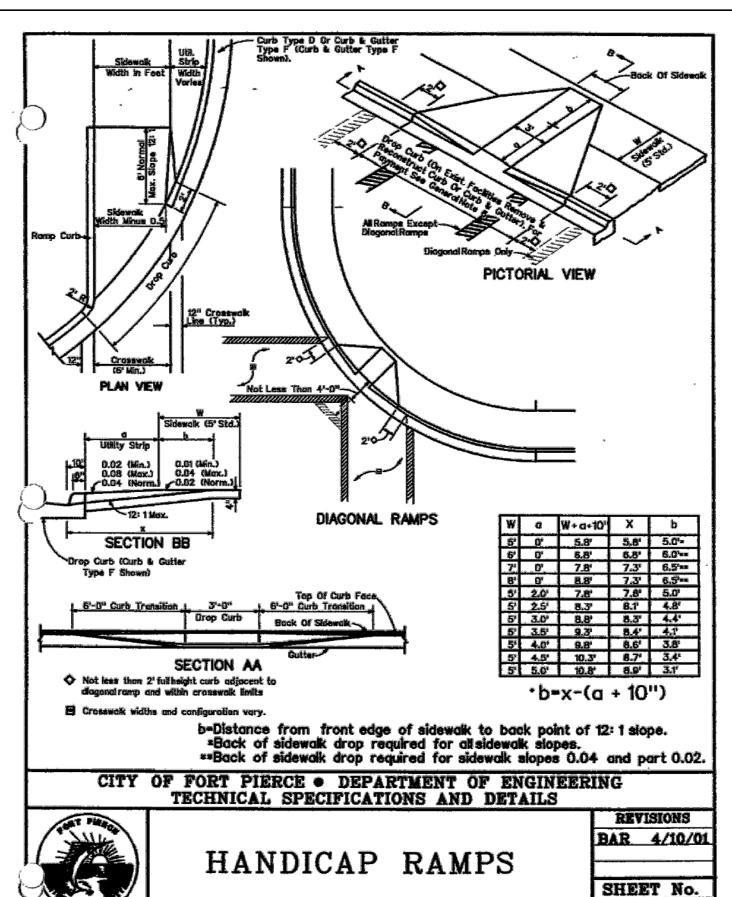
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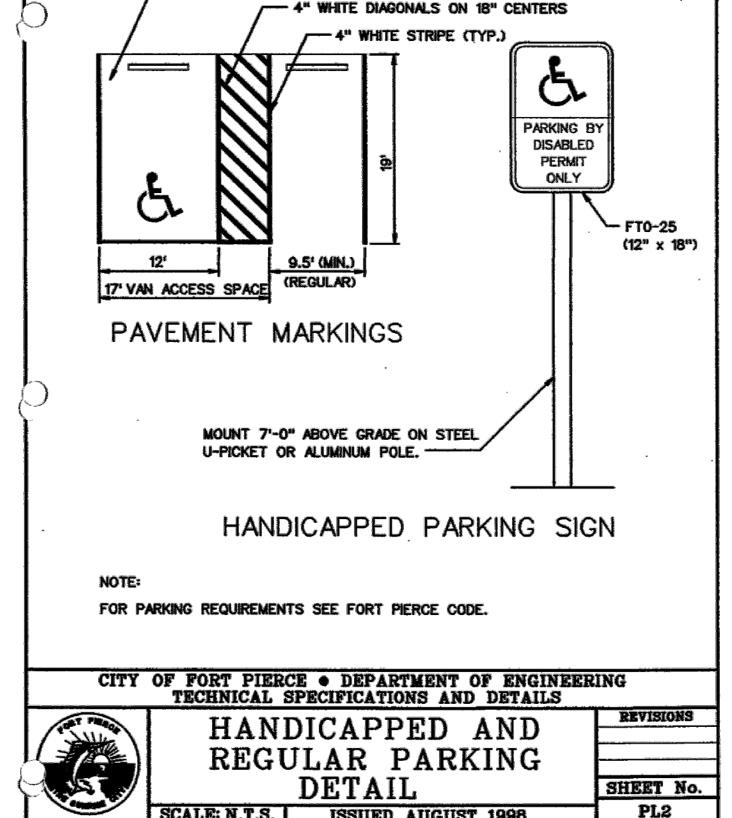






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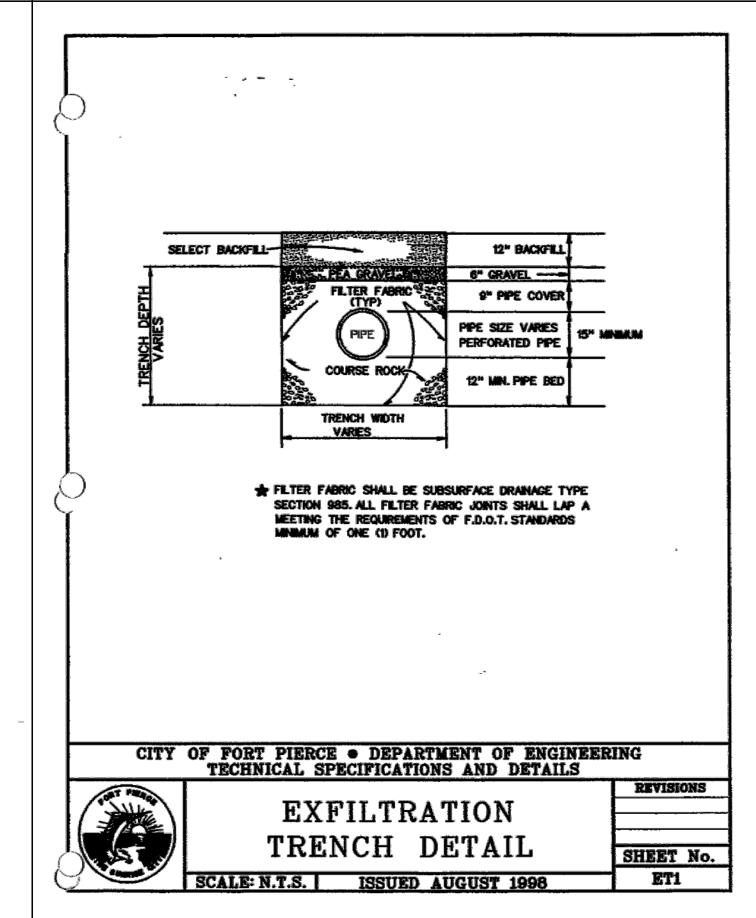
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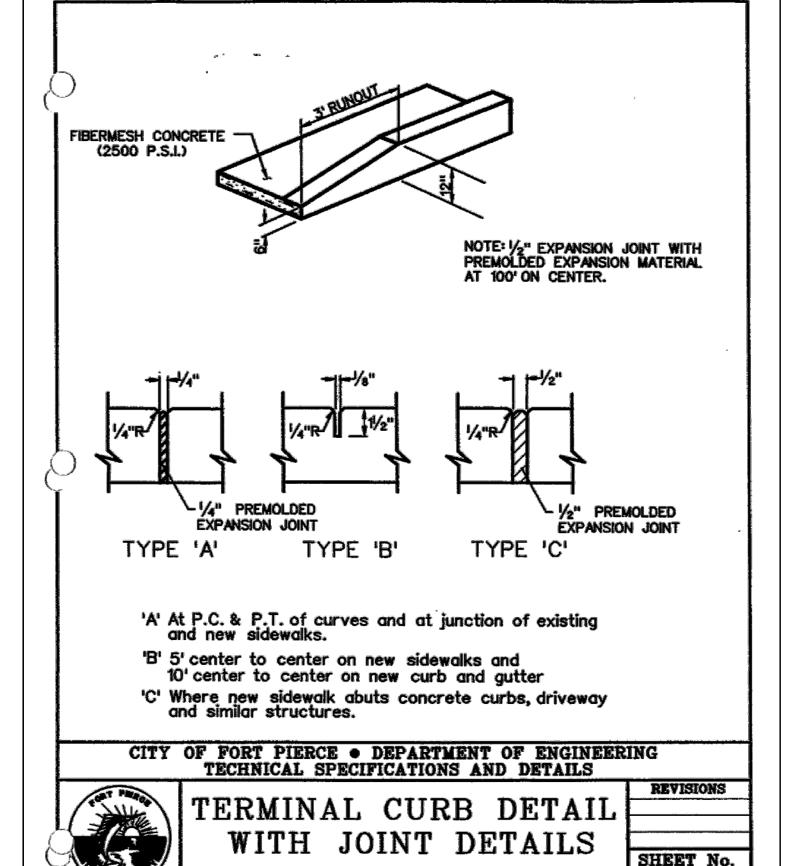


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-INSIDE OF HANDICAPPED SPACE SHALL BE PAINTED BLUE.

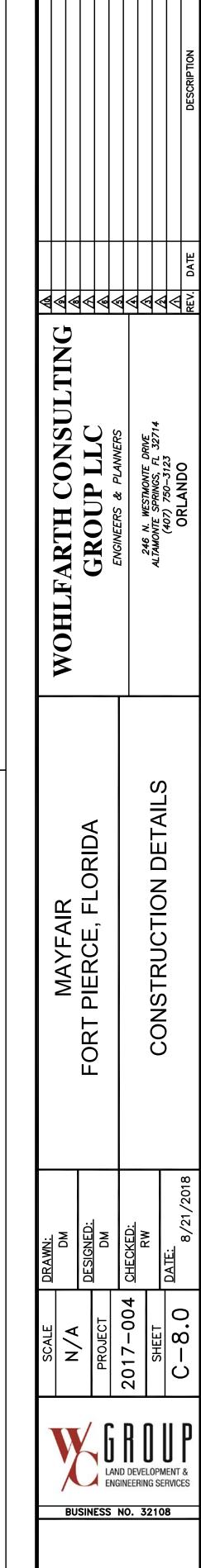
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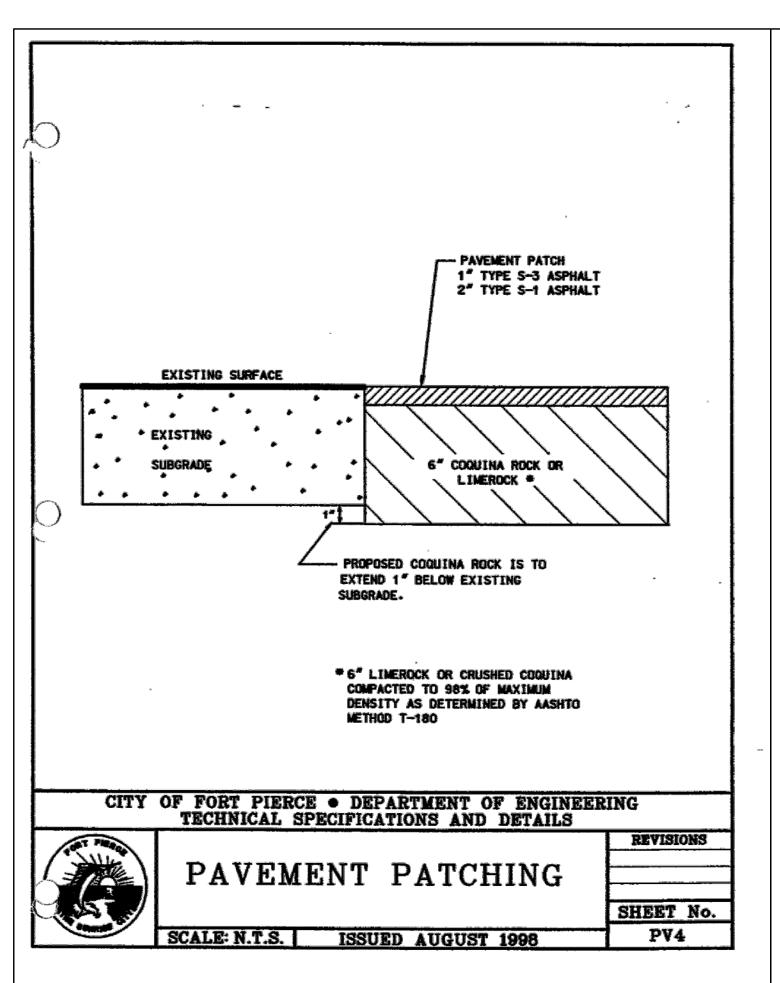


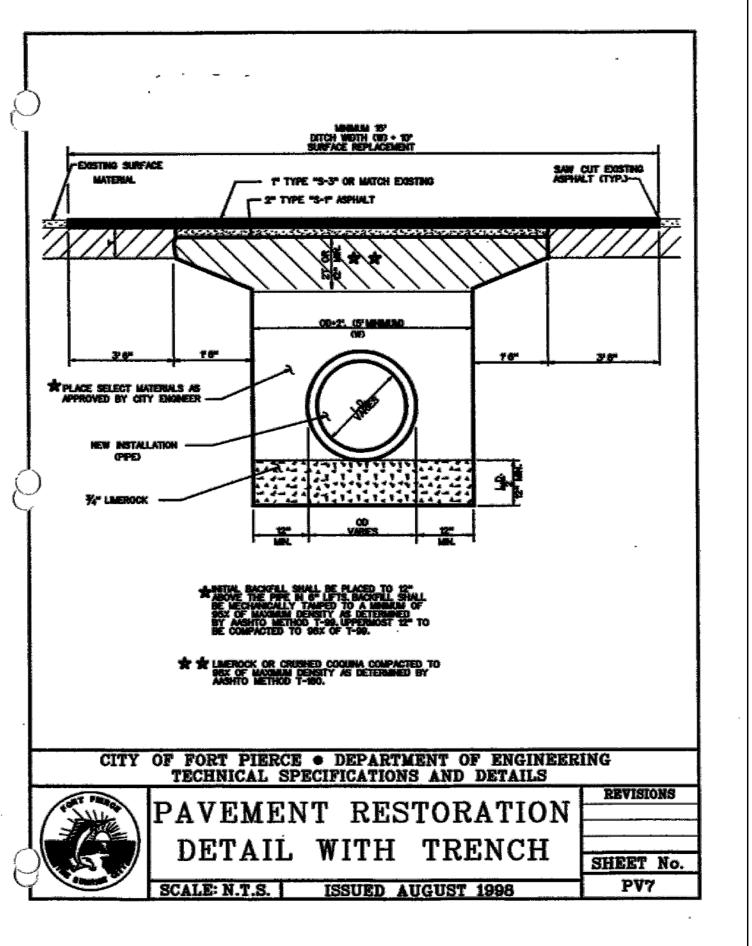
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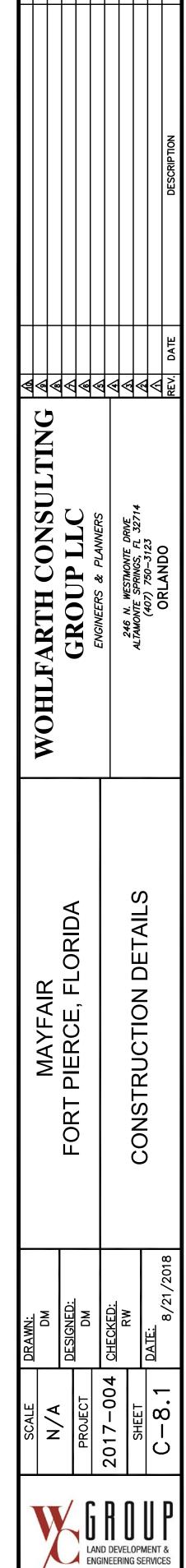
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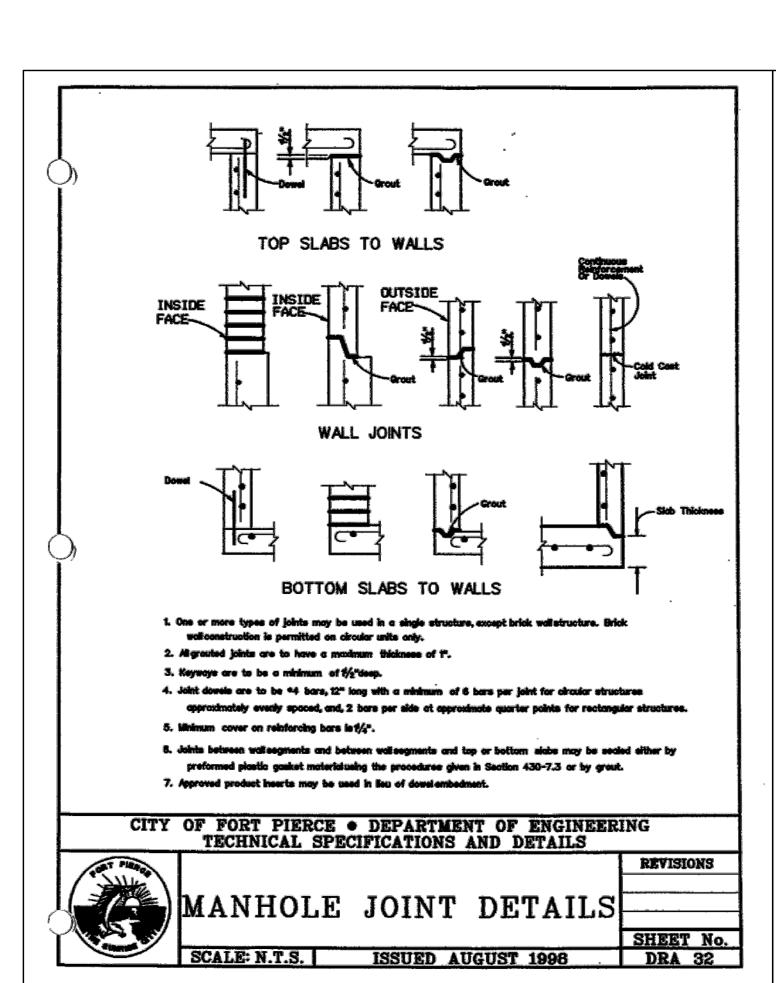


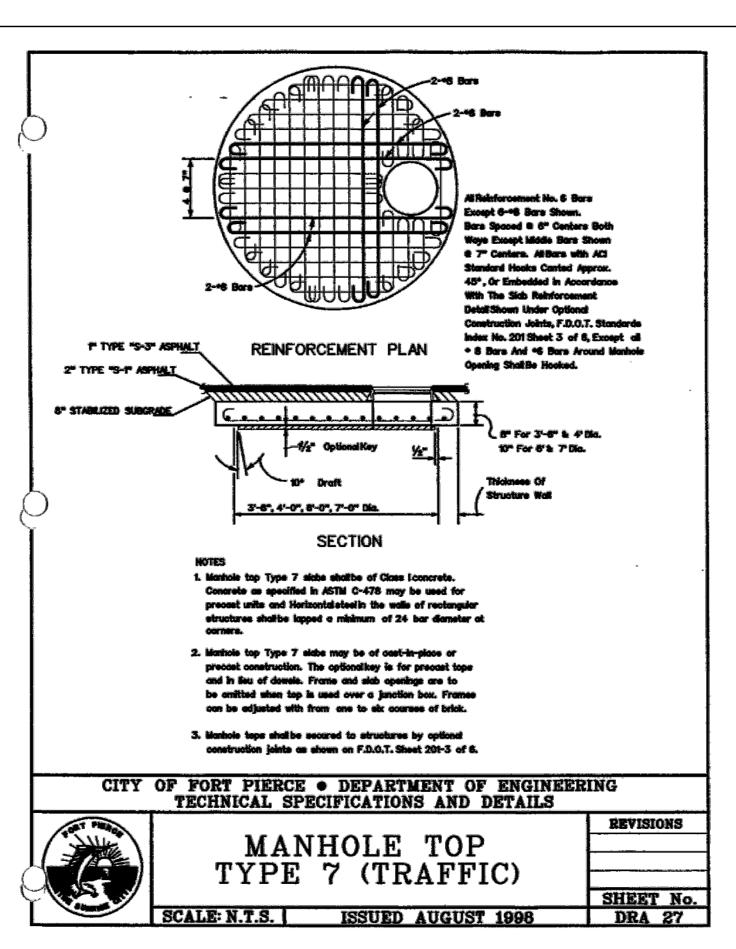
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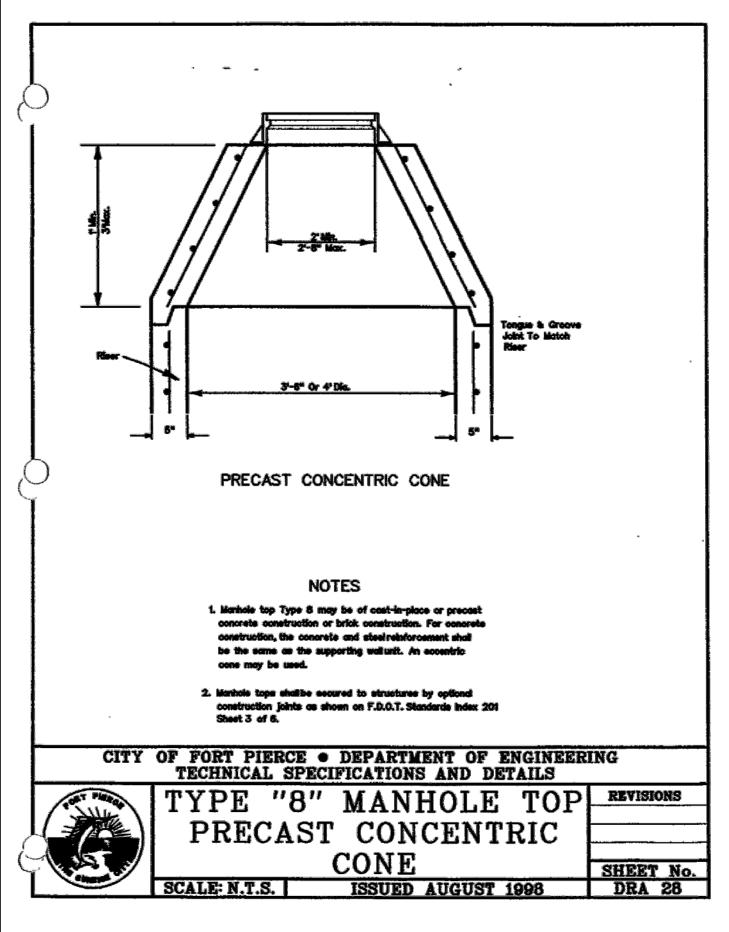
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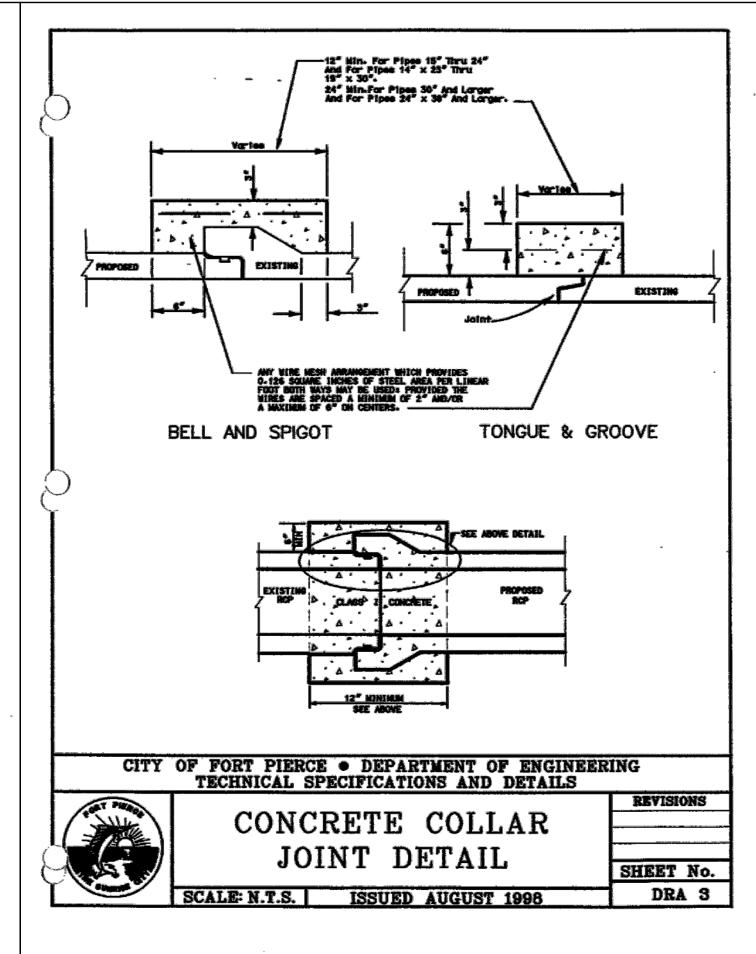
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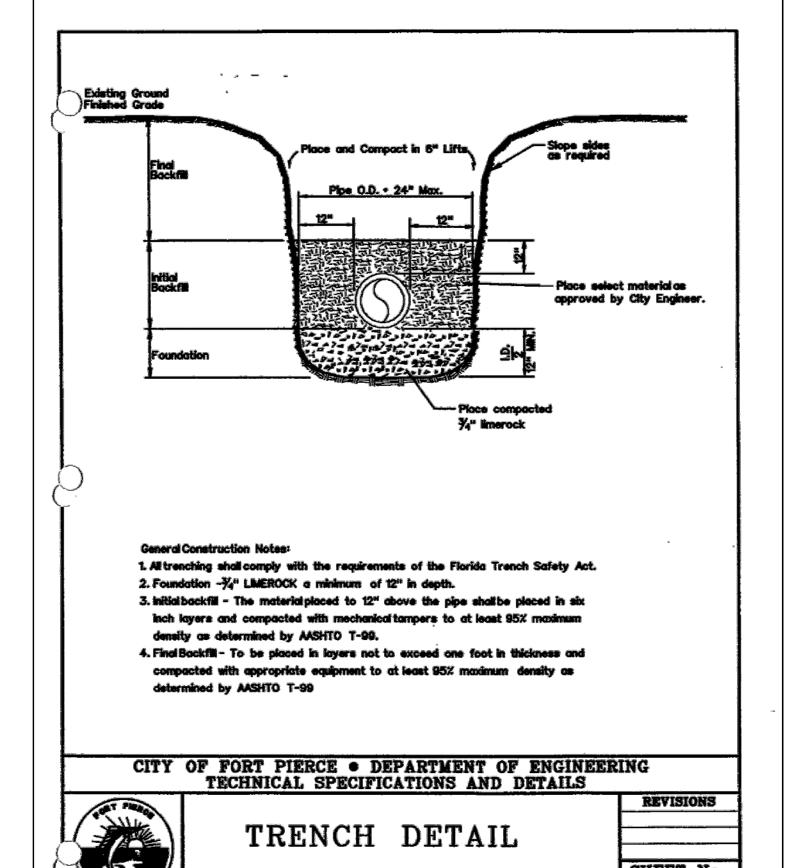
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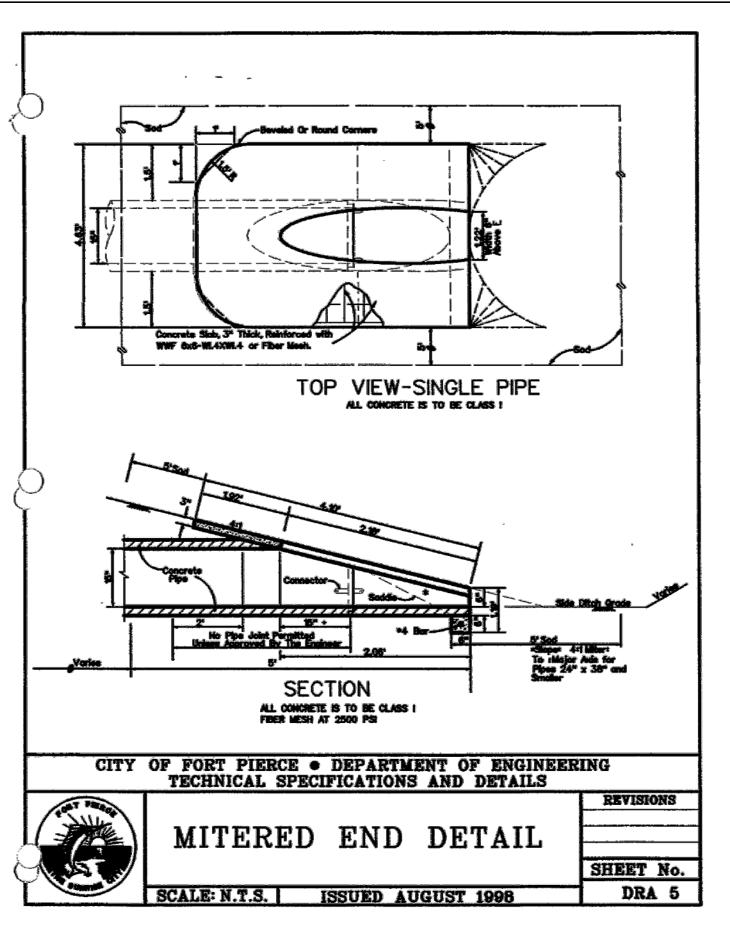


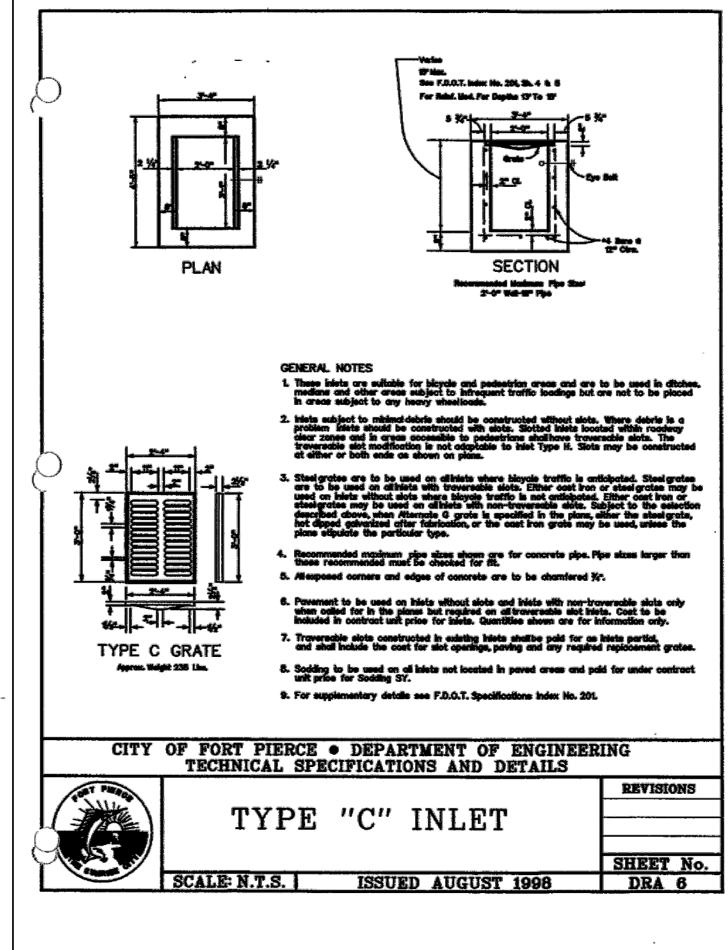


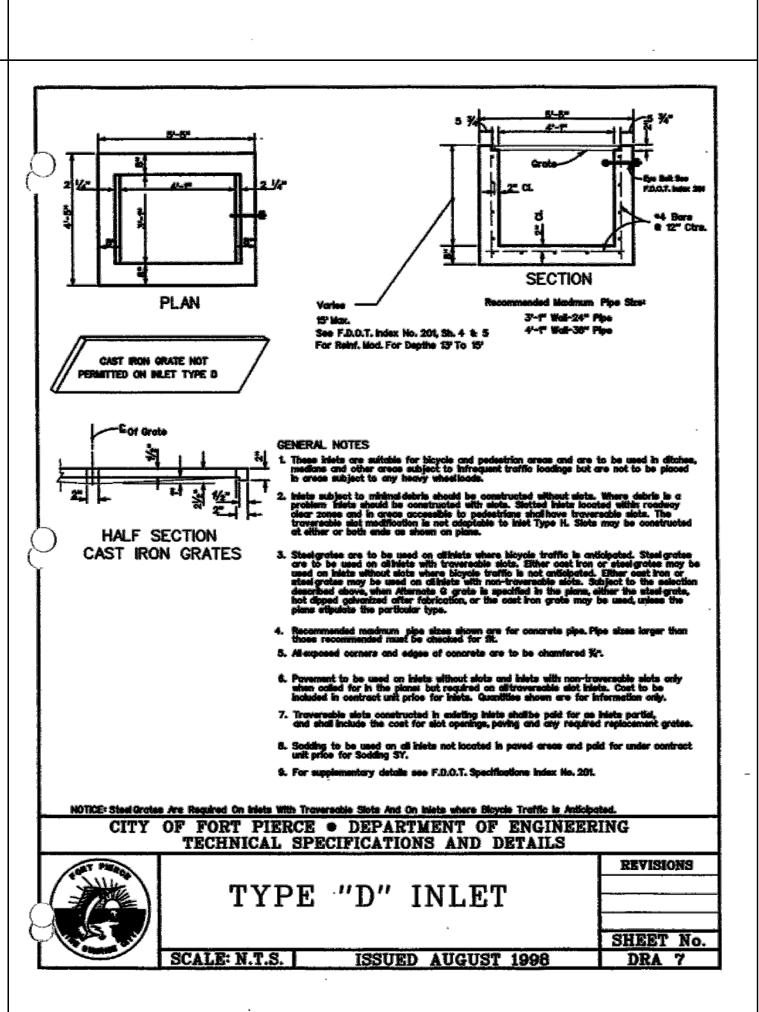


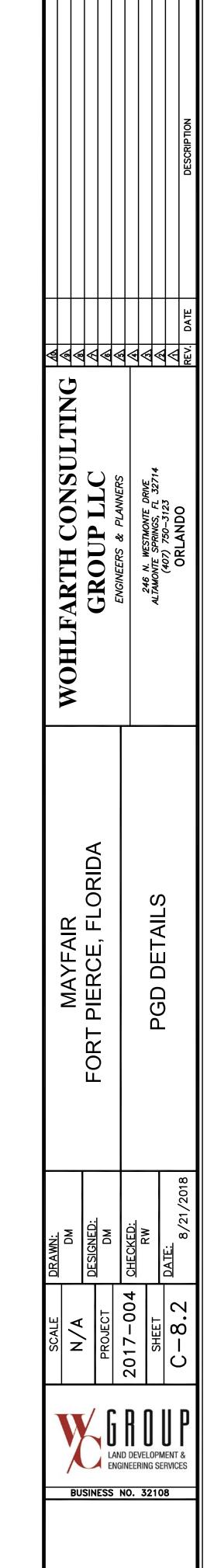
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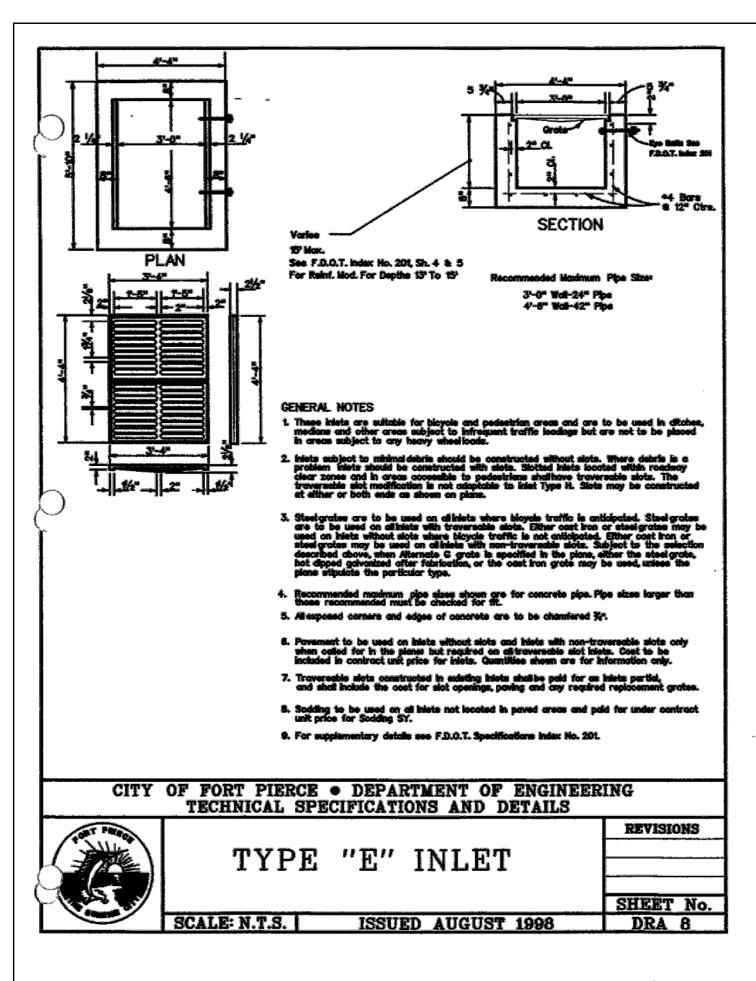


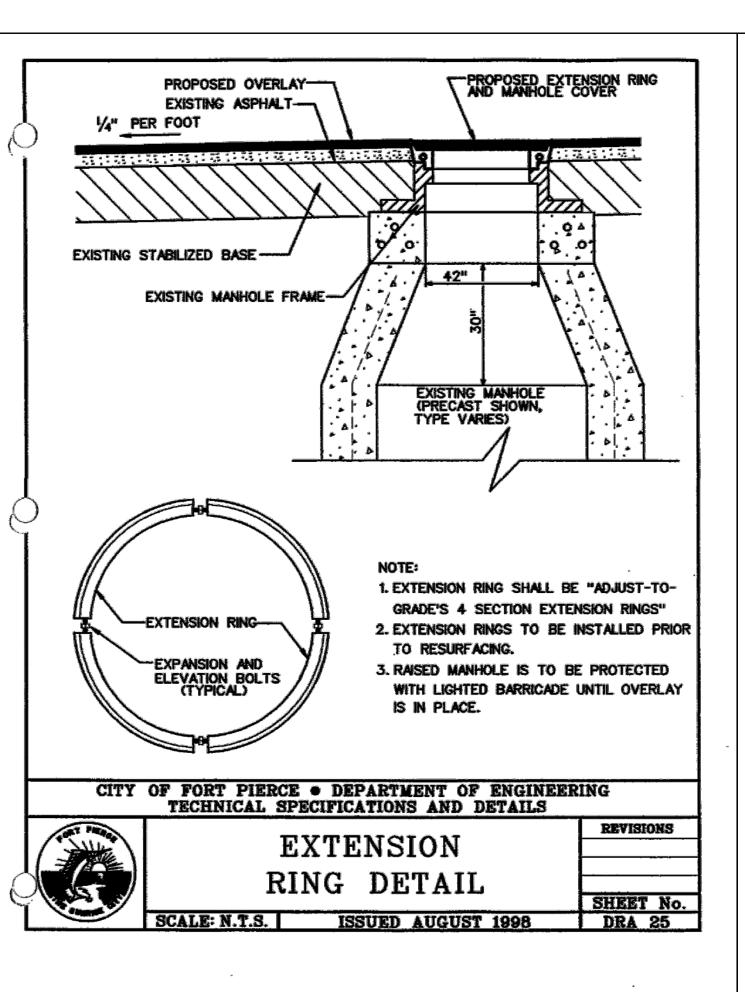


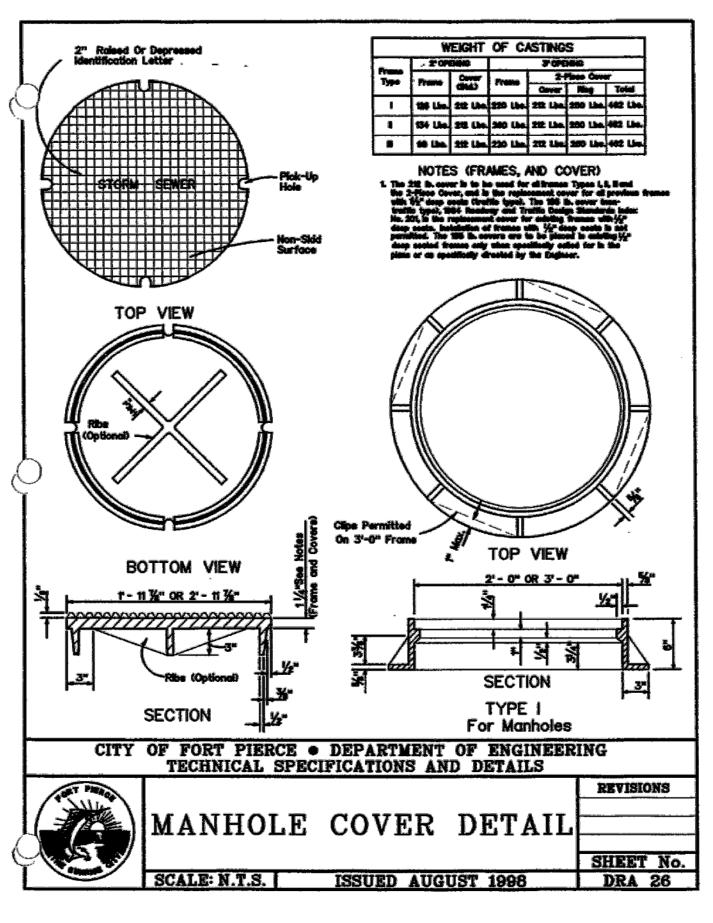


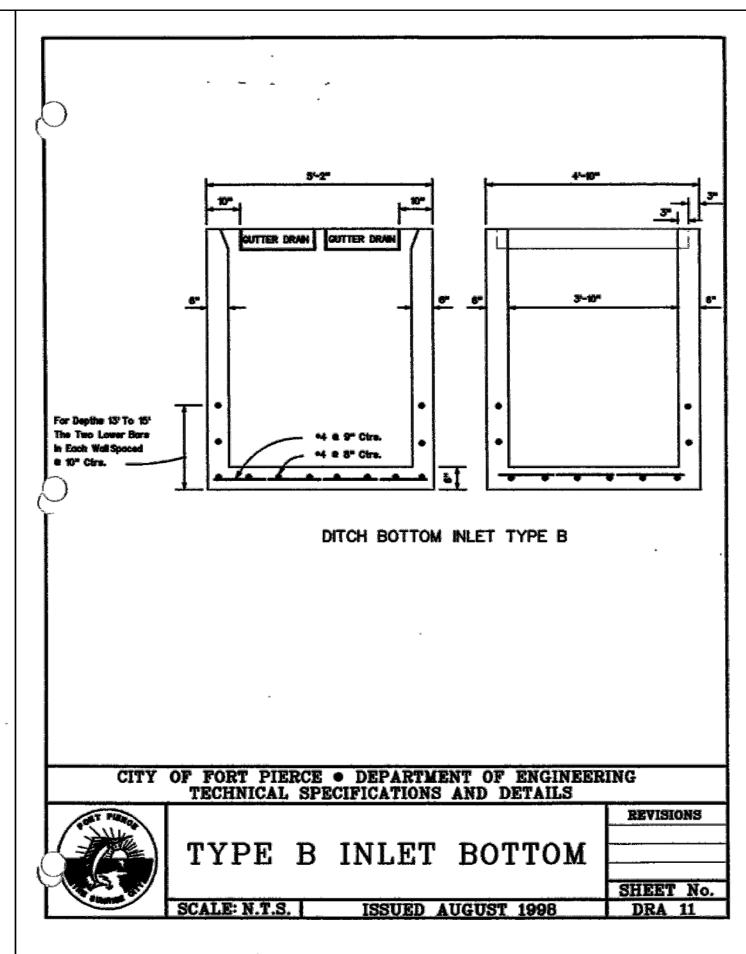
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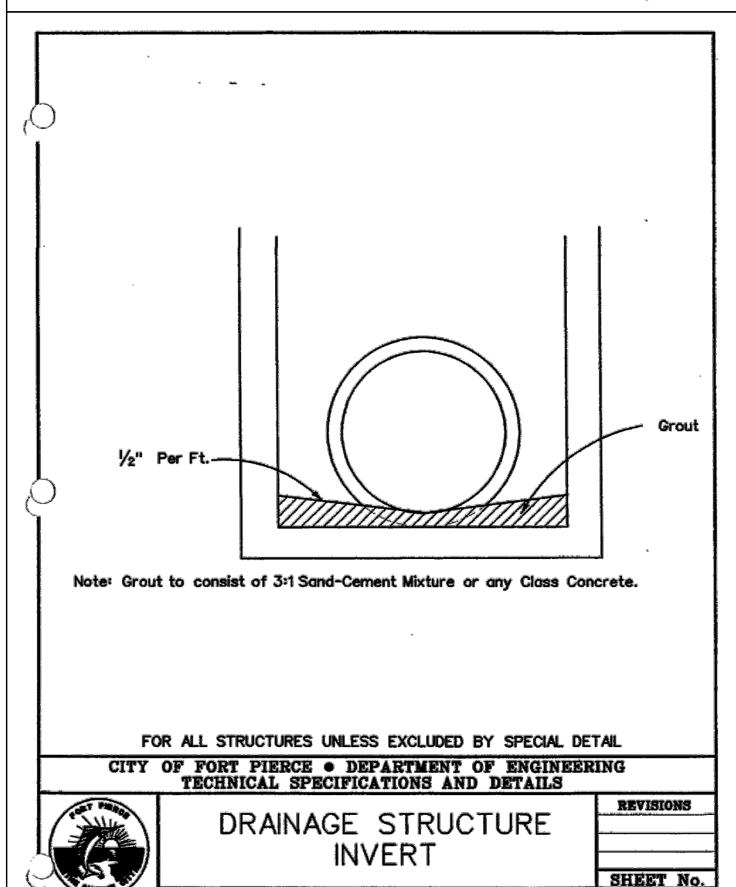
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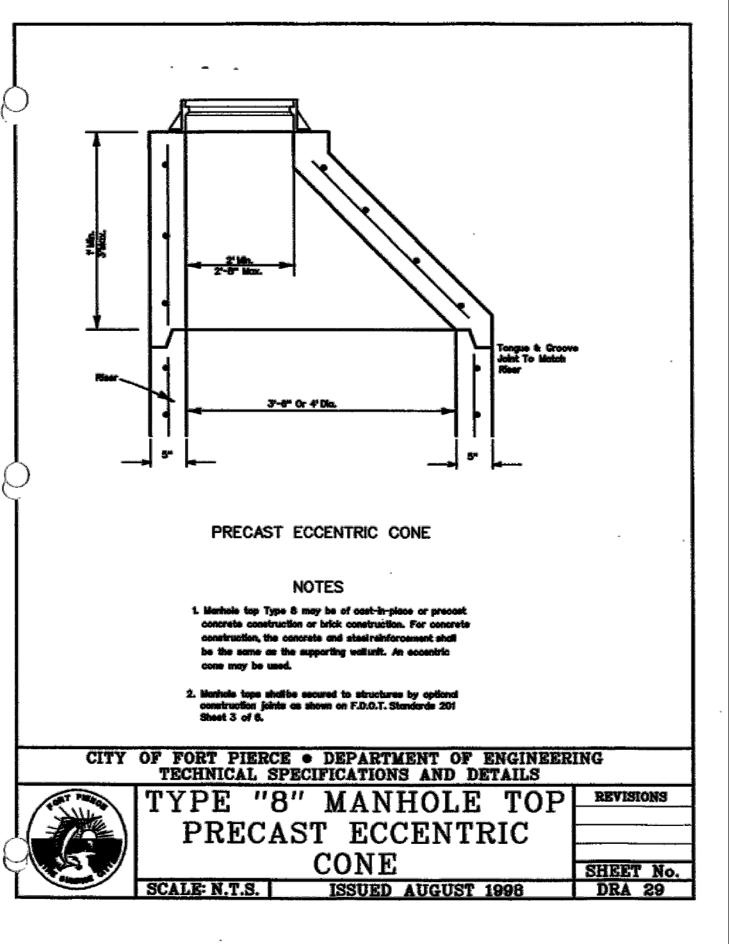


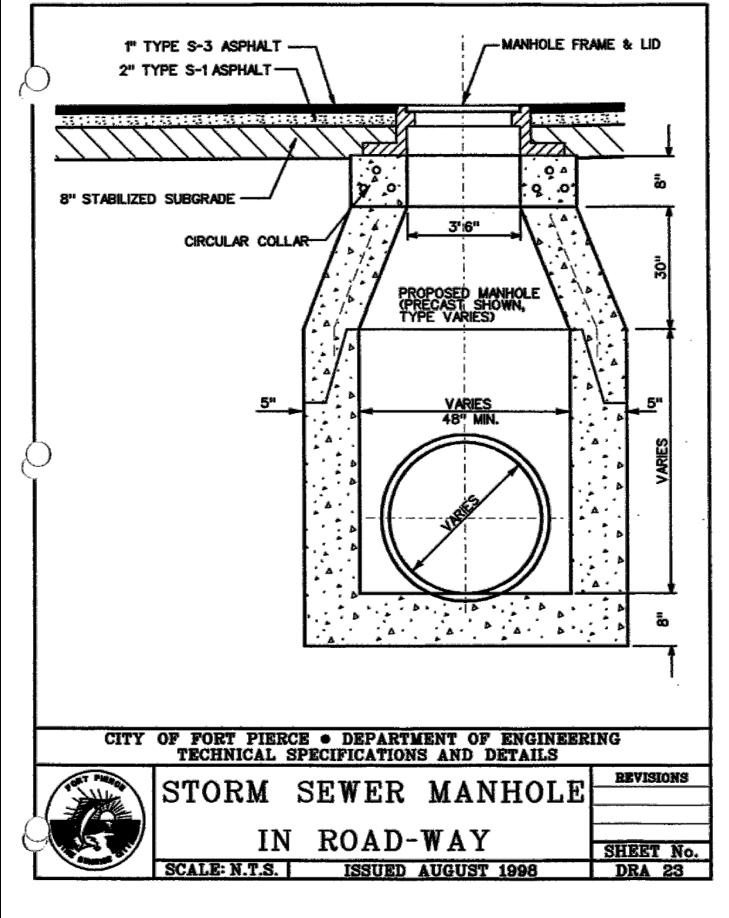


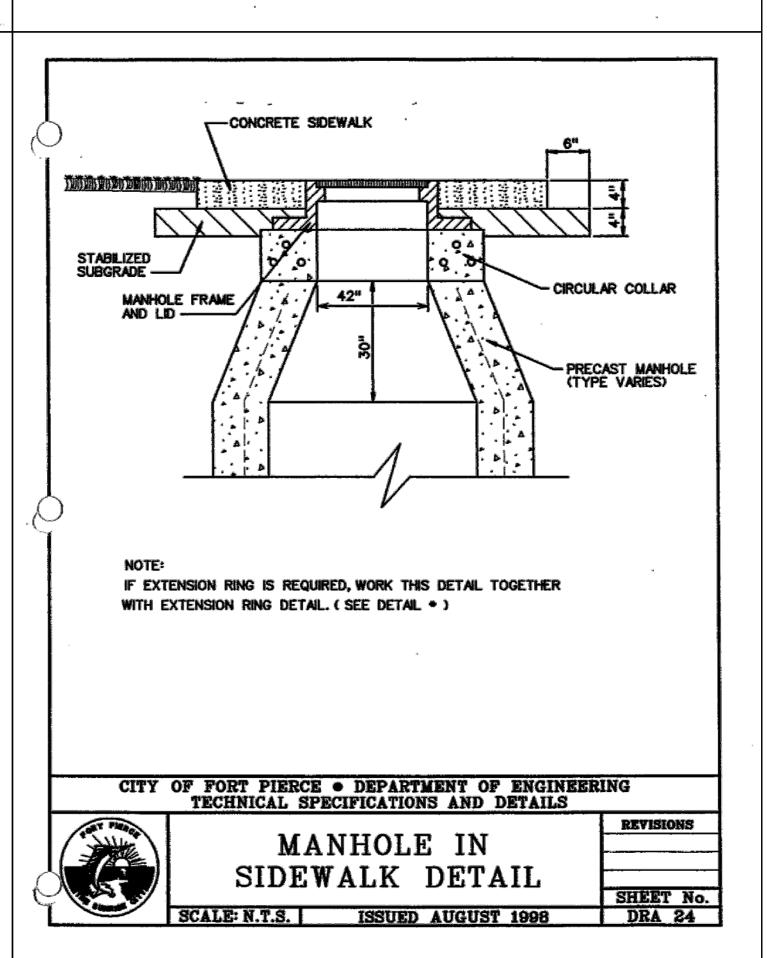
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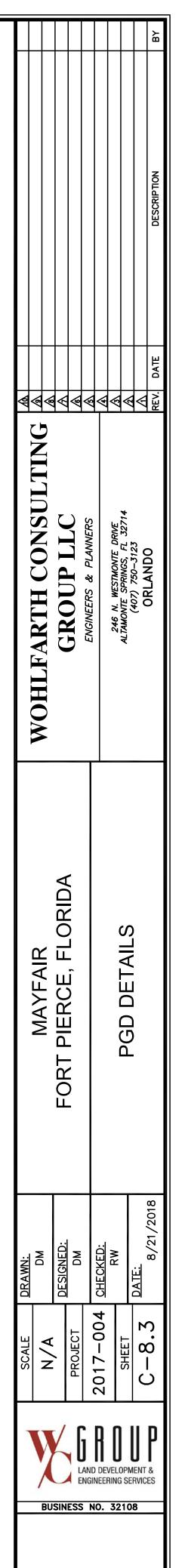
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WITH THE ORIGINAL SEAL OF RICHARD C. WOHLFAR
FLORIDA P.E. #20044

FORT PIERCE UTILITIES AUTHORITY WATER DISTRIBUTION NOTES

- I. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
- 2. WATER MAINS WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAINS WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURY, (DR) 11 FOR DIRECTIONAL BORING, AND (DR) 9 FOR 2 INCH AND SMALLER PIPELINES.
- 3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI/AWWA C151/A21.51 AND SHALL BE PRESSURE CLASS 250 (MINIMUM).
- 4. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR WITH BLUE STRIPES. THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE, ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE
- 5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C-110/A21.10, CLASS 250 MIN., CEMENT LINED
- 5. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-509.
- WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY, COUNTY, FDOT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
- 8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPUA ENGINEER AND CITY/COUNTY/FDOT ENGINEER.
- 9. THE CONTRACTOR SHALL NOTIFY FPUA ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO
- 10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPUA, AND CITY/ COUNTY/FDOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF OF TRANSPORTATION STANDARDS AND APPROVED BY THE CITY ENGINEER.
- 12. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/ COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DÚCTILE IRON
- 13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY
- 14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
- 15. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

RT PIFRO		WATER DISTRIBU	TION	G-1 NOTES						
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WATER DISTRIBUTION NOTE

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES AND DRAINAGE.
- 17. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER INCLUDING LOCATIONS OF VALVES, FITTINGS, SERVICE CONNECTIONS, BLOWOFFS, AIR RELEASE VALVES, AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT, AS REQUIRED
- 18. THE CONTRACTOR SHALL TAP EXISTING LINES UNDER THE SUPERVISION OF THE FORT PIERCE UTILITIES AUTHORITY ONLY AFTER TESTING AND DISINFECTION HAS BEEN COMPLETED AND APPROVED ON THE
- 19. WATER MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN MULTI STRANDED WIRE (BLUE IN COLOR) AND IDENTIFCATION TAPE WITH "WATER" MARKED ON TAPE, PERMANENTLY ATTACHED TO THE TOP OF THE WATER MAIN IN ACCORDANCE WITH THE FORT PIERCE UTILITES AUTHORITY SPECIFICATIONS.
- 20. SERVICE TAPS SHALL BE PLACED APPROXIMATELY TEN FEET AWAY FROM GATE VALVES, AS SHOWN, FOR TESTING. FOLLOWING TESTING AND STERILIZATION OF WATER LINE. CONTRACTOR SHALL PLACE A BRASS PLUG IN CORPORATION STOPS AND CURB STOPS SHALL BE REMOVED FROM TESTING LOCATIONS.
- 21. MECHANICAL RESTRAINTS TO BE USED ON ALL FITTINGS AND PLACED IN ACCORDANCE WITH MANUFACTURER'S OR ENGINEER'S RECOMMENDATIONS (WHICHEVER IS MORE STRINGENT) AND FPUA REQUIREMENTS.
- 22. ALL MAINS SHALL BE TESTED AT A MINIMUM OF 150 PSI. TESTING METHODS SHALL CONFORM TO AWWA C-600. - 2 HR MINIMUM TEST

- L= LEAKAGE IN GPH S= LENGTH OF PIPE IN FEET
- D= PIPE DIAMETER IN INCHES
- P= TESTING PRESSURE IN PSI
- 23. PRIOR TO ANY TESTING, ALL MAINS 6" IN DIA. AND LARGER SHALL HAVE A SWAB PASSED THRU THE ENTIRE LENGTH OF THE LINE. NOTE: SWAB SHOULD BE PLACED IN 1st. JOINT OF NEW LINE. END OF MAIN SHOULD BE "TURNED UP" AT 45% AND EXTENDED SO THAT SWABBING AND A FULL BORE FLUSH CAN BE ACCOMPLISHED. BLOW-OFF ASSY CAN THEN BE PLACED. WHERE LINES BRANCH, SWABS WILL BE PLACED IN BRANCH LINES AND SEQUENTIALLY SWABBED AND FLUSHED.
- 24. A MINIMUM SIX FEET AND PREFERABLY TEN FEET HORIZONTAL SEPARATION SHALL BE MAIINTAINED BETWEEN THE WATER MAIN AND ANY WASTEWATER LINES. 6 INCHES MINIMUM VERTICAL SEPARATION IF WATER MAIN IS OVER WASTEWATER AND 12 INCHES IF WATER MAIN IS UNDER SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTWATER LINES. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE OR STRUCTURE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGHTS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPÁRATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
- 25. WHERE A WATER MAIN IS TO BE INSTALLED BELOW A STORM DRAIN PIPE, A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE BETWEEN PIPES SHALL BE CONSTRUCTED OF DIP AT THE CROSSING, AND SHALL BE MECHANICALLY RESTRAINED WITHIN 20 FEET OF THE CROSSING.
- 26. CONTRACTOR SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

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FORT PIERCE UTILITIES AUTHORITY WASTEWATER CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
- 2. GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE SDR-26, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D-3034.
- 3 THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.
- 4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIRE— MENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE
- 5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
- 6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISTING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT.
- 7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS AND SEWER MAINS AS A MINIMUM.
- 8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPÁRATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
- 9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND FPUA/CITY
- COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. 10. NO FIELD CHANGES OR DEVIATIONS FORM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL FPUA/CITY/COUNTY/FDOT ENGINEER,
- 11. TRAFFIC CONTROL, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
- 12. CONTRACTOR SHALL NOTIFY FORT PIERCE UTILITIES AUTHORITY 48 HOURS PRIOR TO COMMMENCING CONSTRUCTION.
- 13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900,
- AND SHALL BE CLASS 150, DR-18.
- 14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR. 15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C-110/A21.10 CLASS 250 MIN.
- AND INTERIOR EPOXY COATED. 16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN
- WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.
- 17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHAL REQUIRE PRIOR APPROVAL OF THE UTILITES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE
- 18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY FPUA ENGINEER.
- 19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPUA ENGINEER. 20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

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STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS

. SANITARY SEWER, FORCE MAINS, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 6 INCHES, PREFERABLY 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHEN ABOVE, AND AT LEAST 12 INCHES OF SEPARATION WHEN THE WATER MAIN IS BELOW.

WHERE SANITARY SEWER, FORCE MAINS, STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 6 INCHES VERTICAL SEPARATION. BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) CENTERED ON THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS.) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN PIPE JOINTS ARE FOUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). AT SUCH CROSSINGS PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 6 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS) AND NEW PIPES SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

2. A MINIMUM 3—FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF STORM SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. A MINIMUM 3—FOOT, AND PREFERABLE 10—FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN VACUUM TYPE SANITARY SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN "ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. A MINIMUM 6—FOOT, AND PREFERABLE 10—FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN GRAVITY

OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON A UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OF FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE

BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3 FOOT WHERE THE BOTTOM

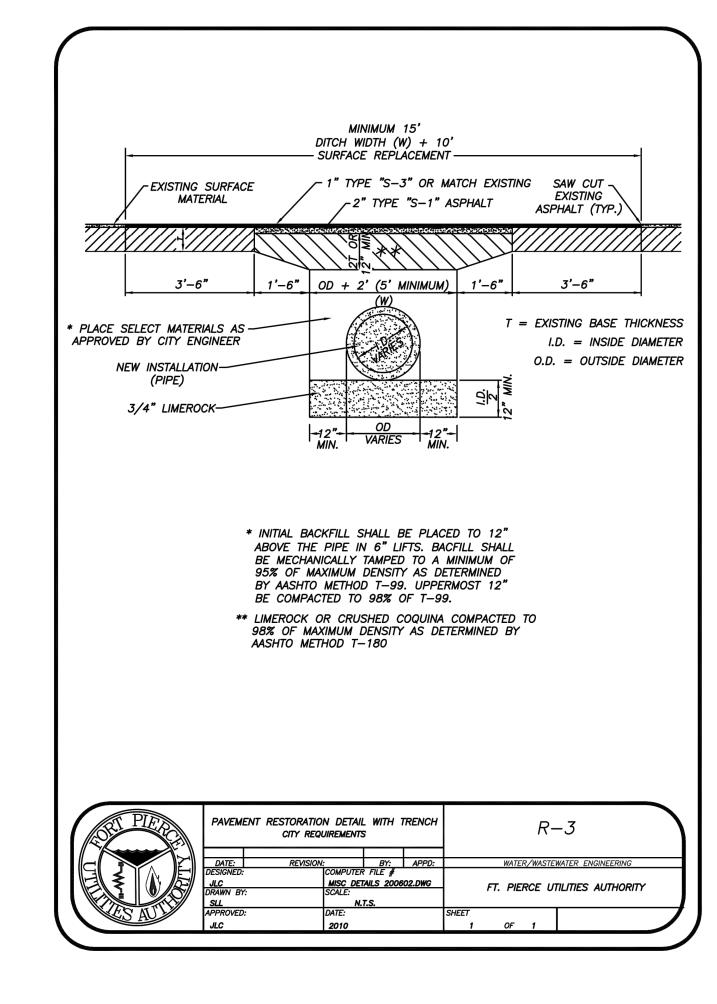
OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE MINIMUM HORIZONTAL SEPARATION DISTANCE

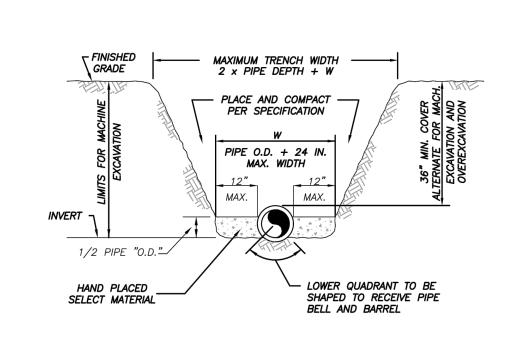
TOP OF THE SEWER. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 6 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWER) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM

3. ALL DIP SHALL BE PRESSURE CLASS 250 MIN.. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN ENGINEER.

JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

PIERCA PIERCA	STANL	DARD SEPARATION FOR WATER/SEWER C		G-3 WATER/SEWER CONFLICT						
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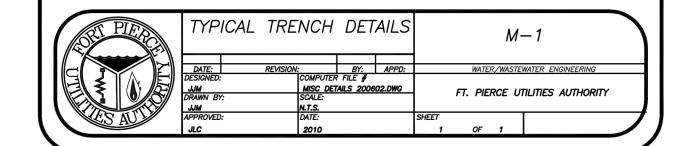




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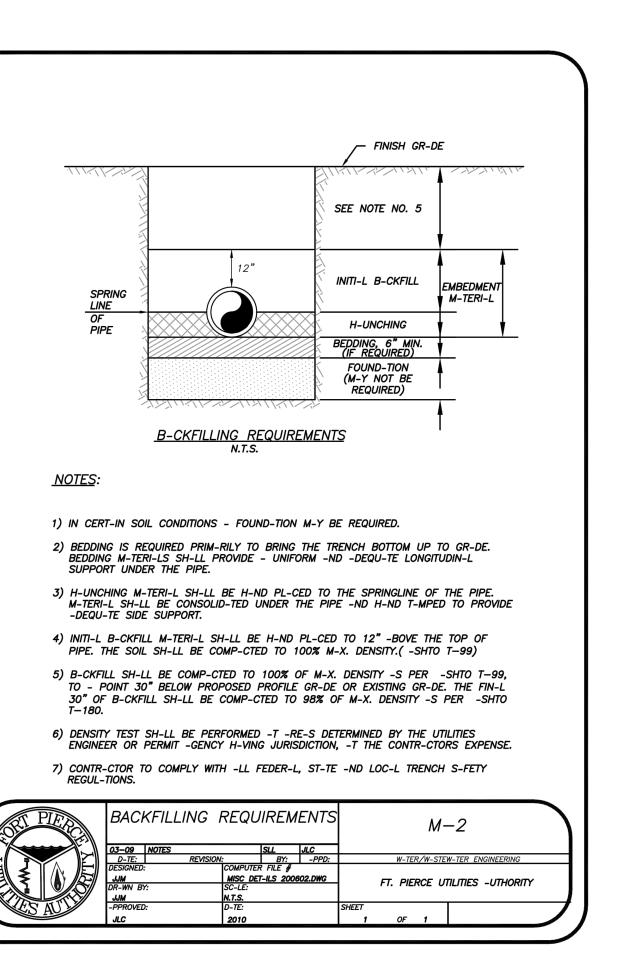
- 1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
- 2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T—99.

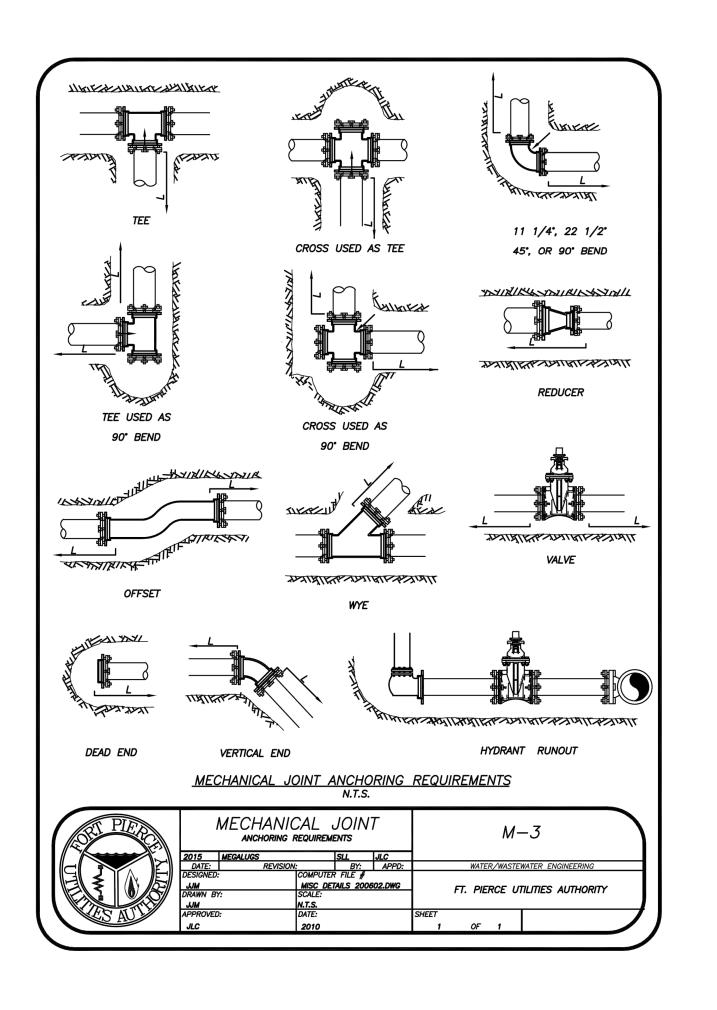
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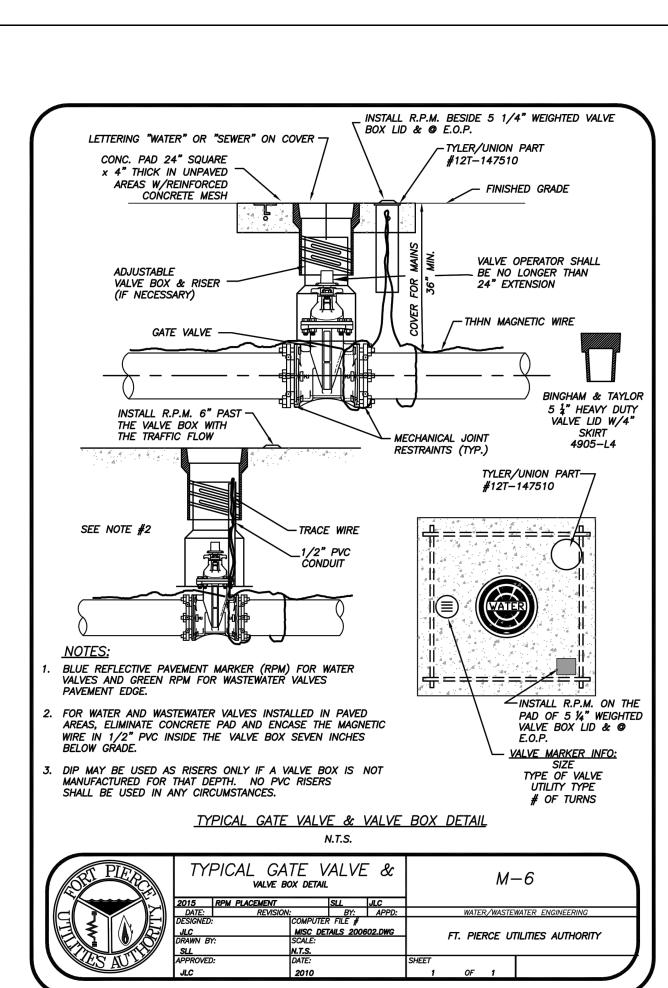


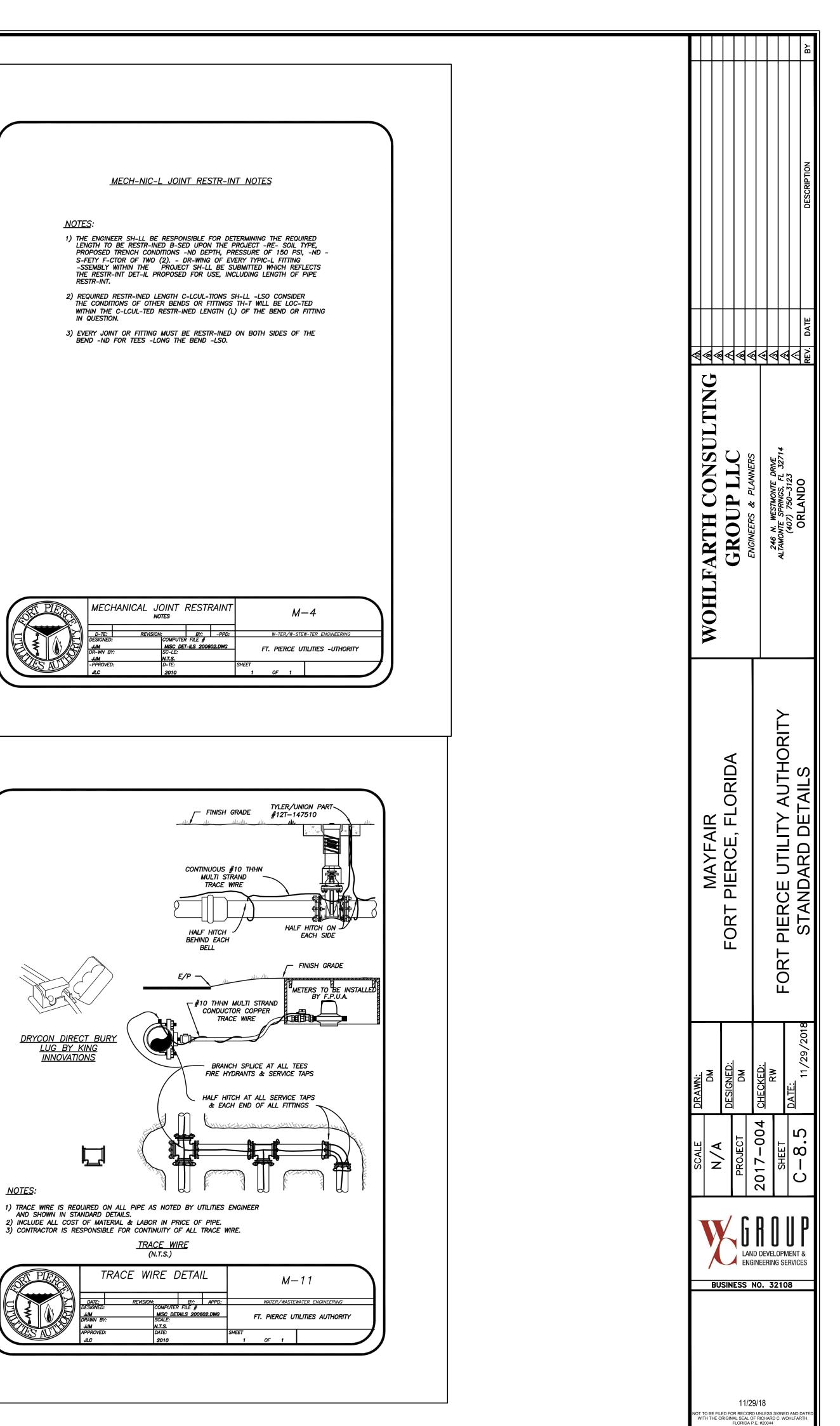
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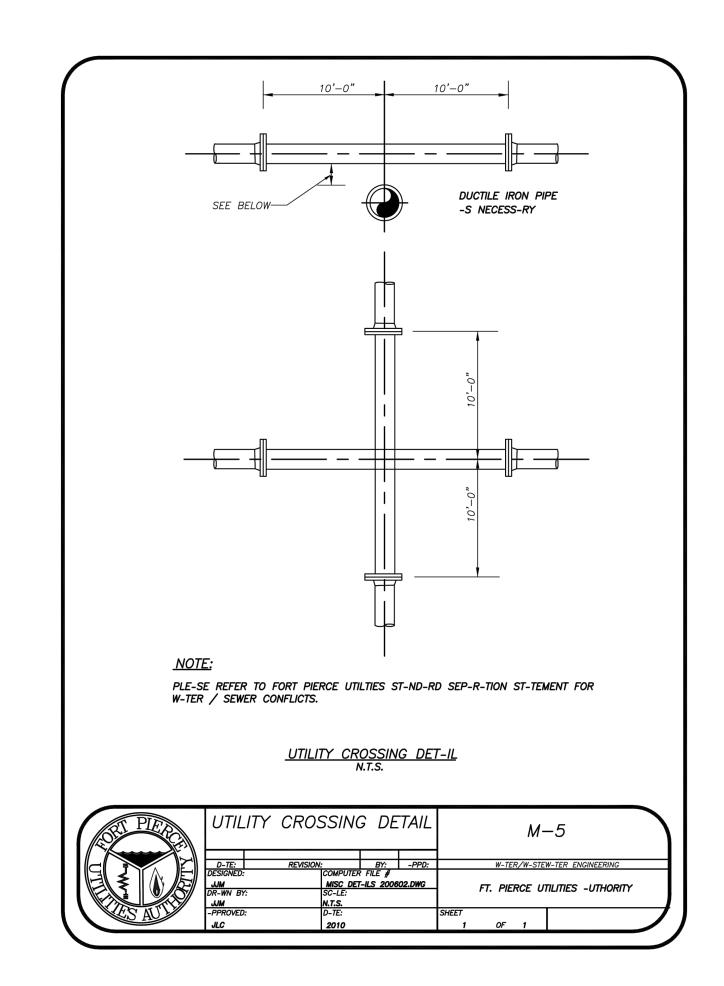
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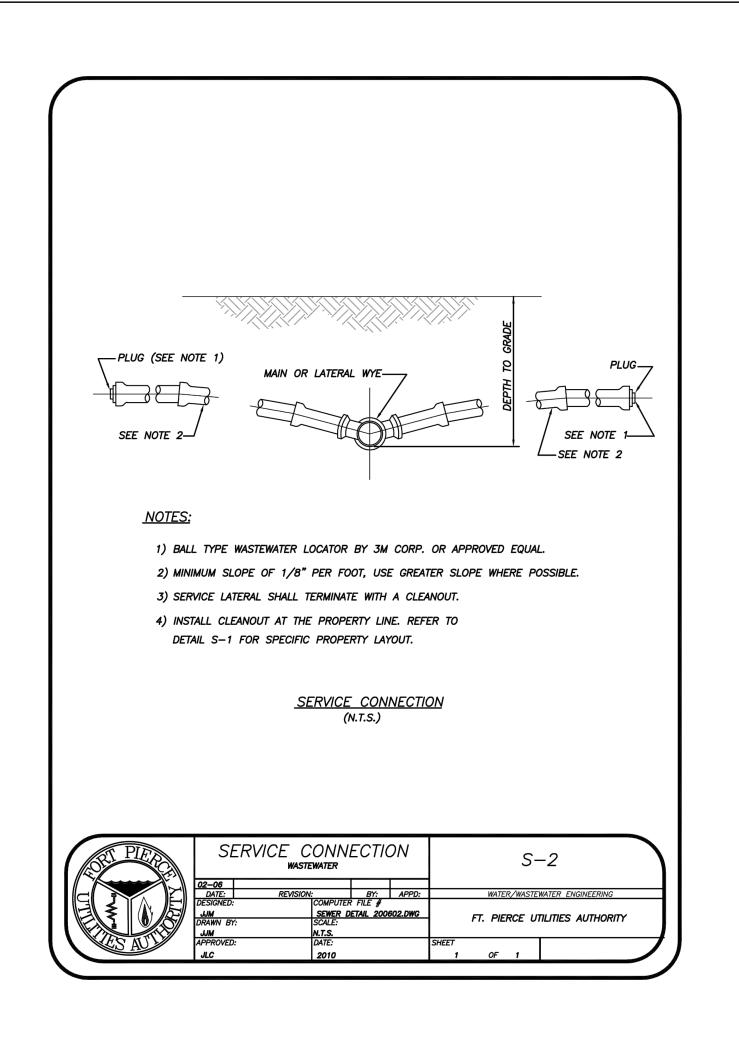


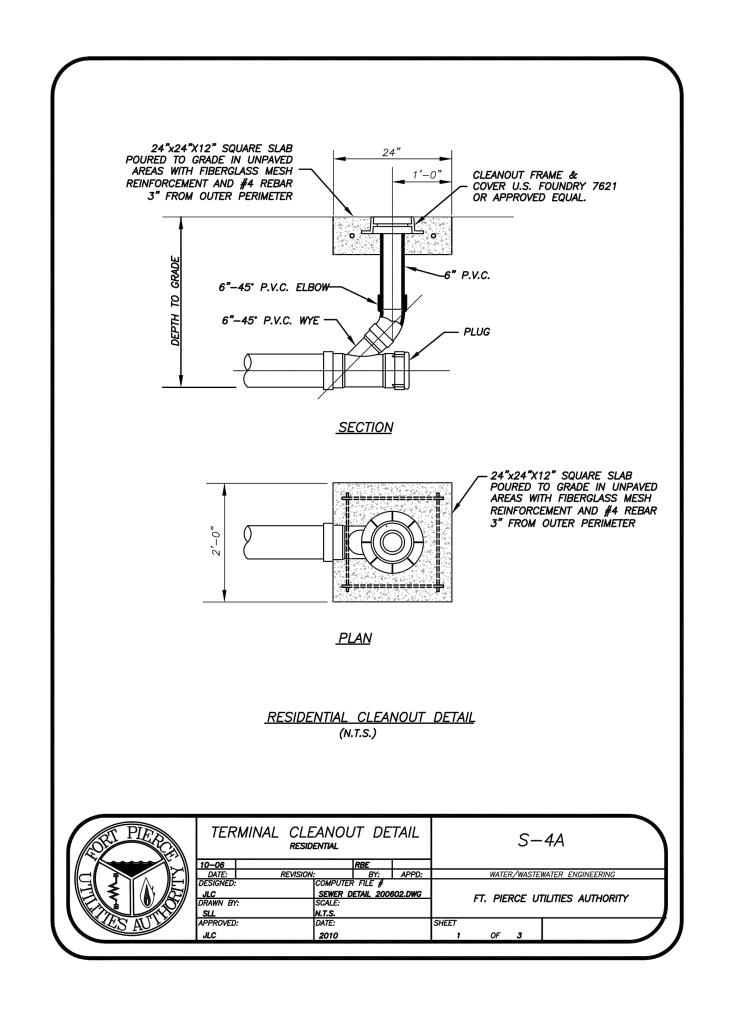


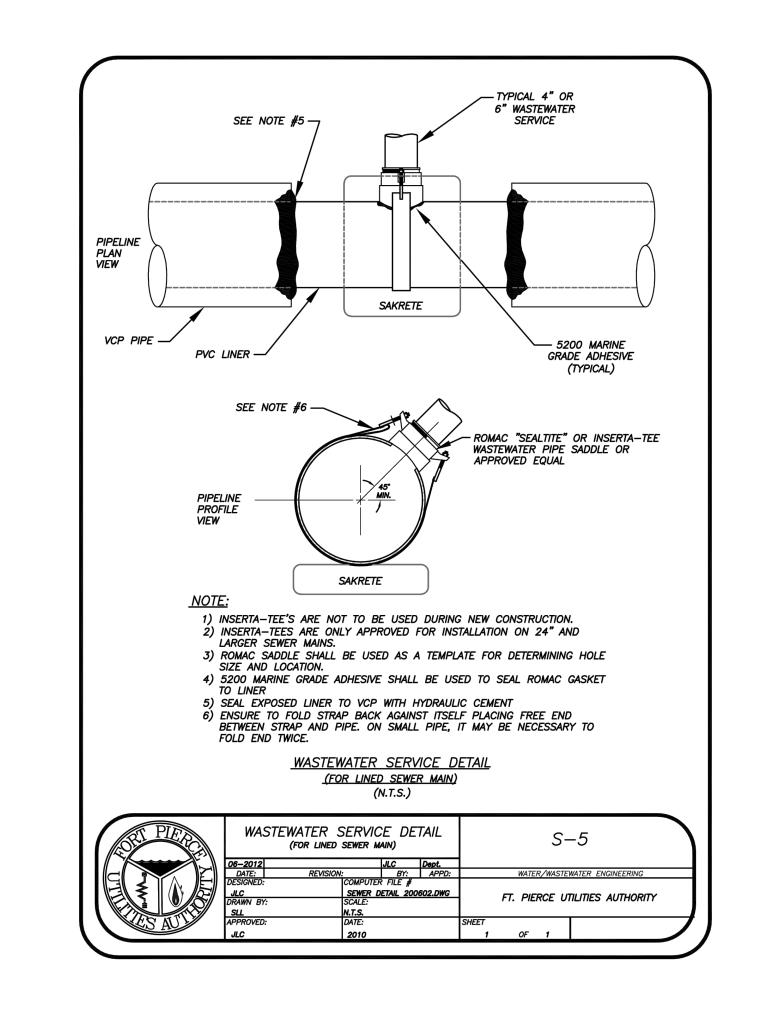












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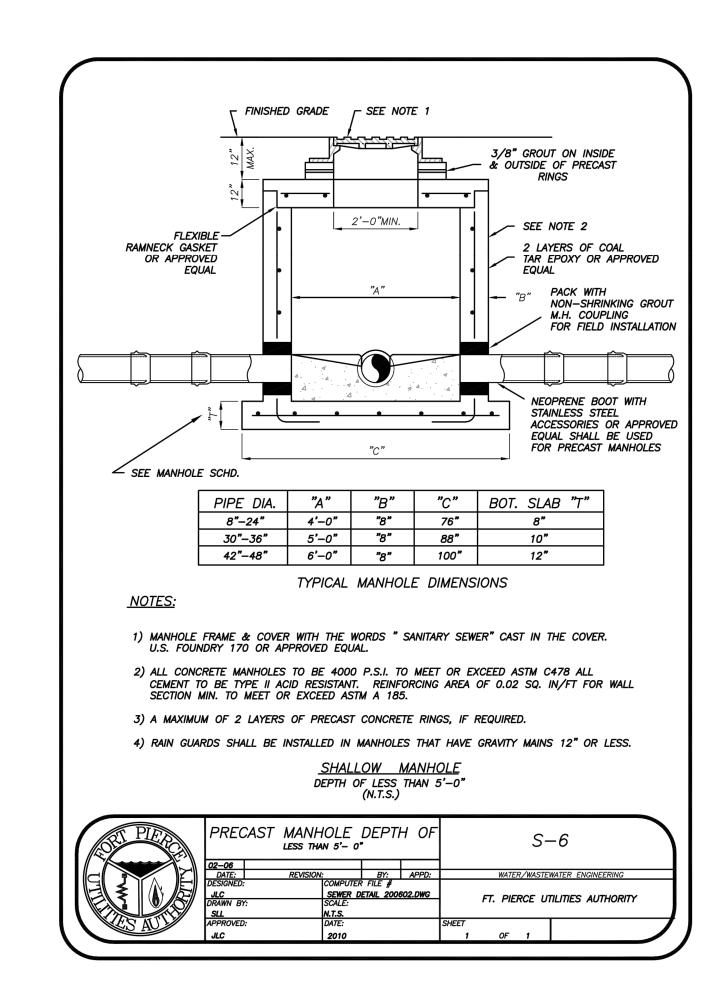
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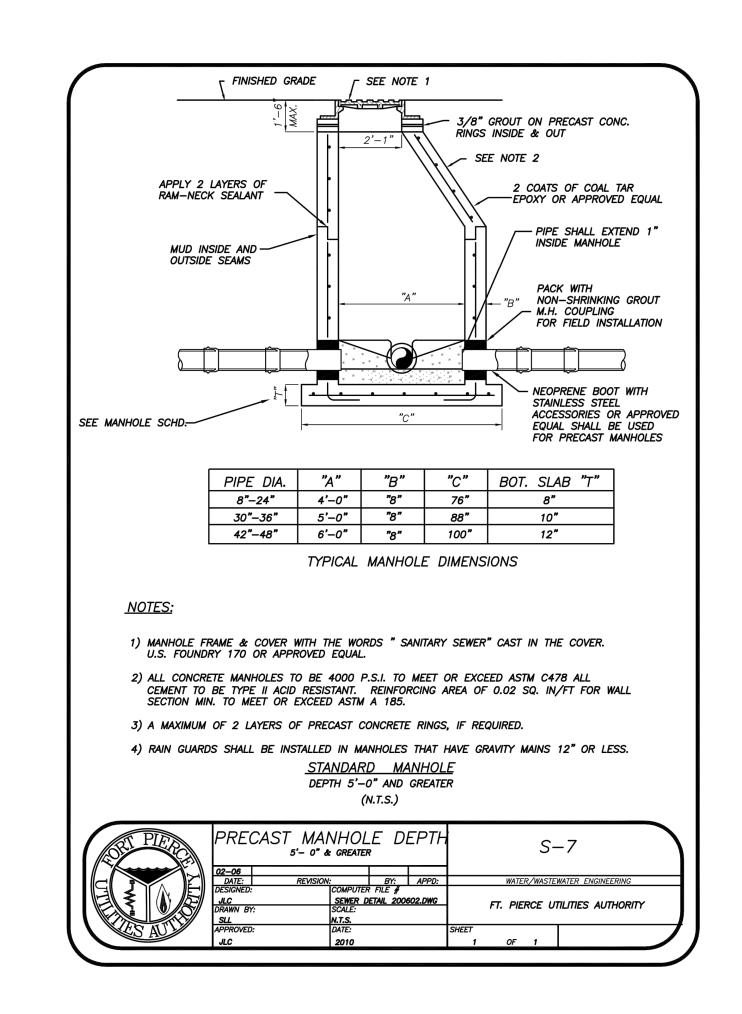
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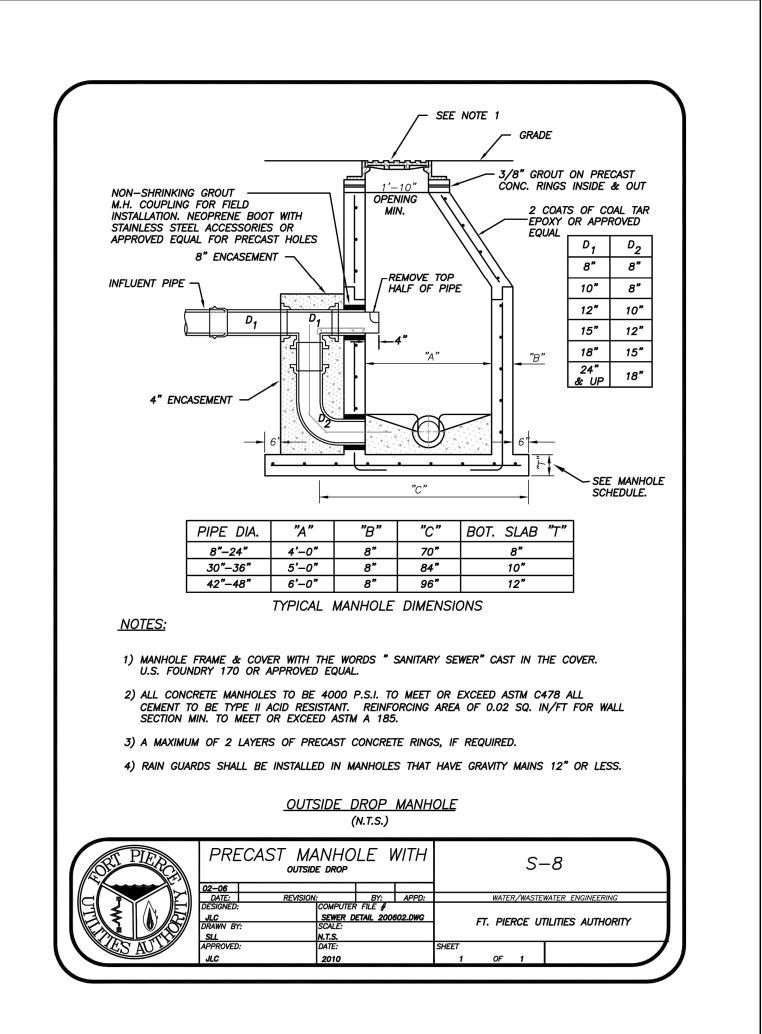
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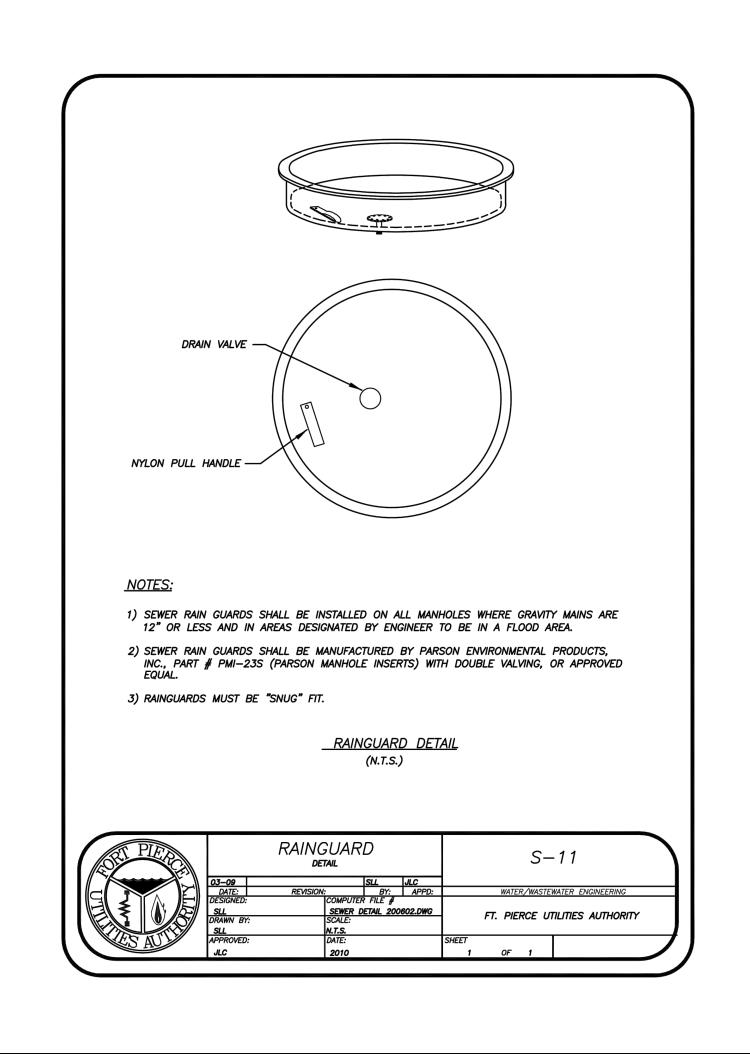
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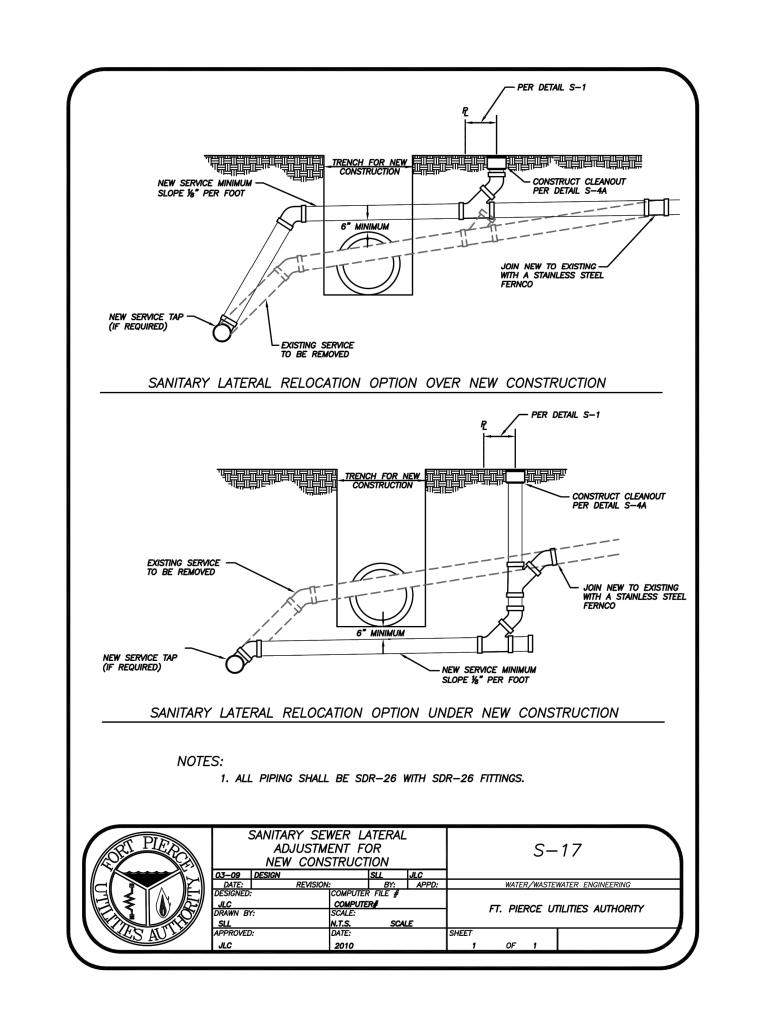
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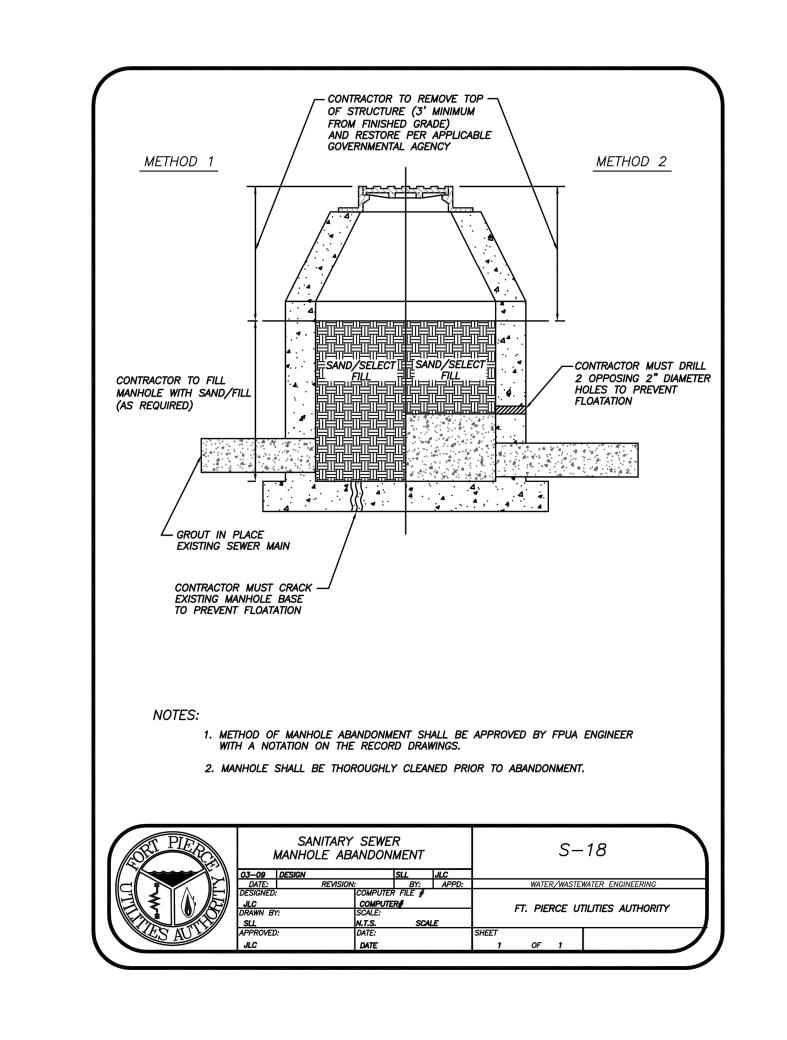












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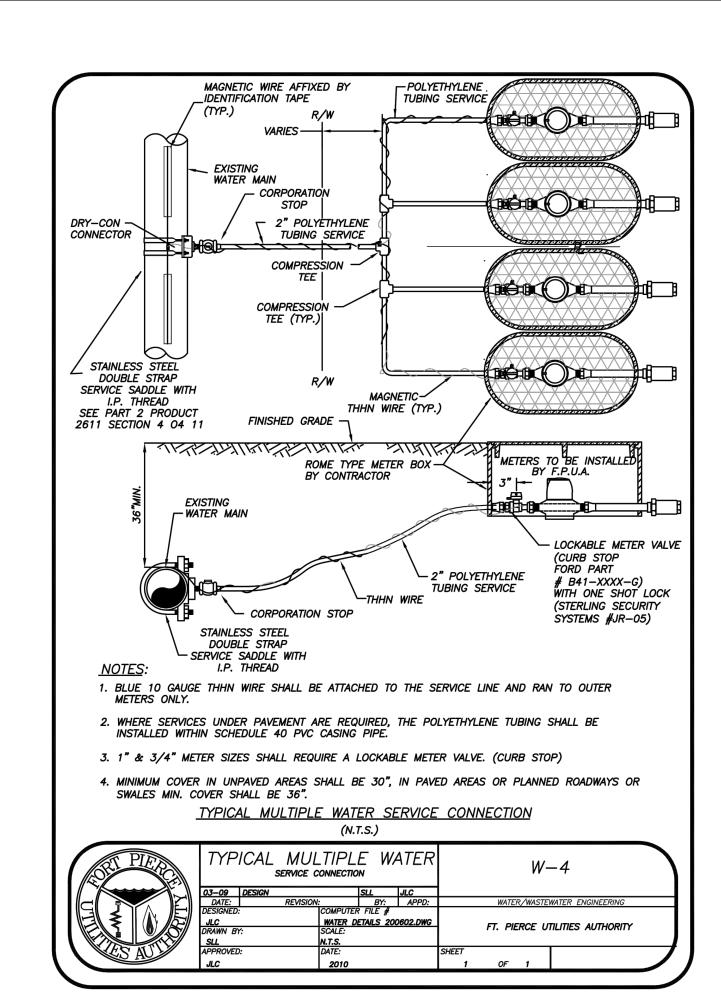
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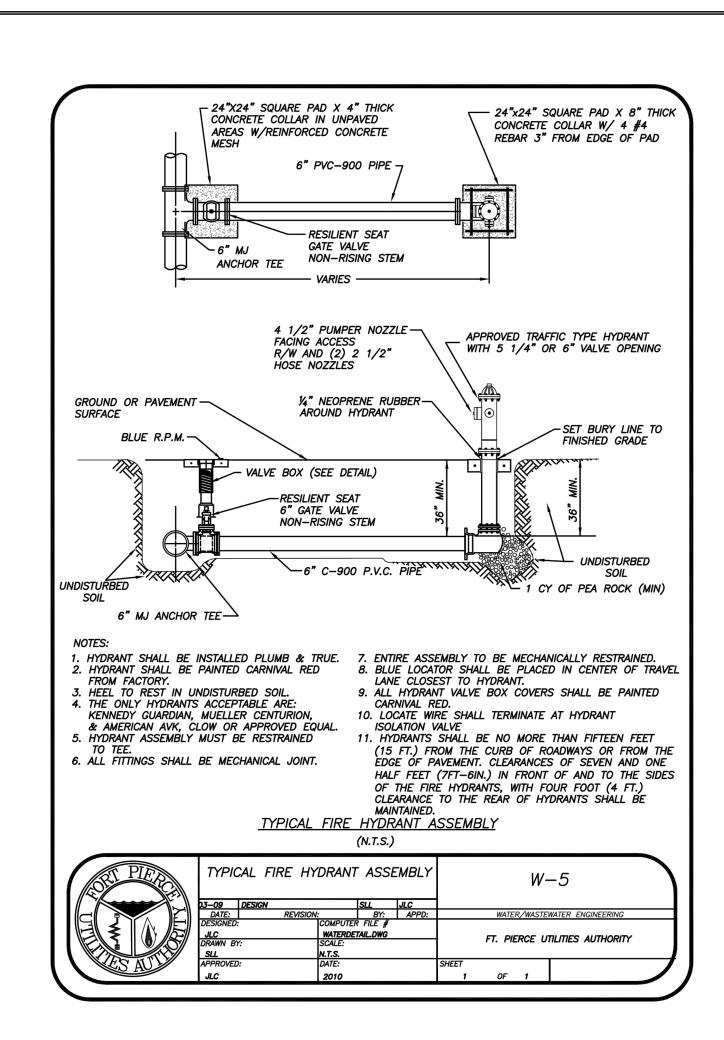
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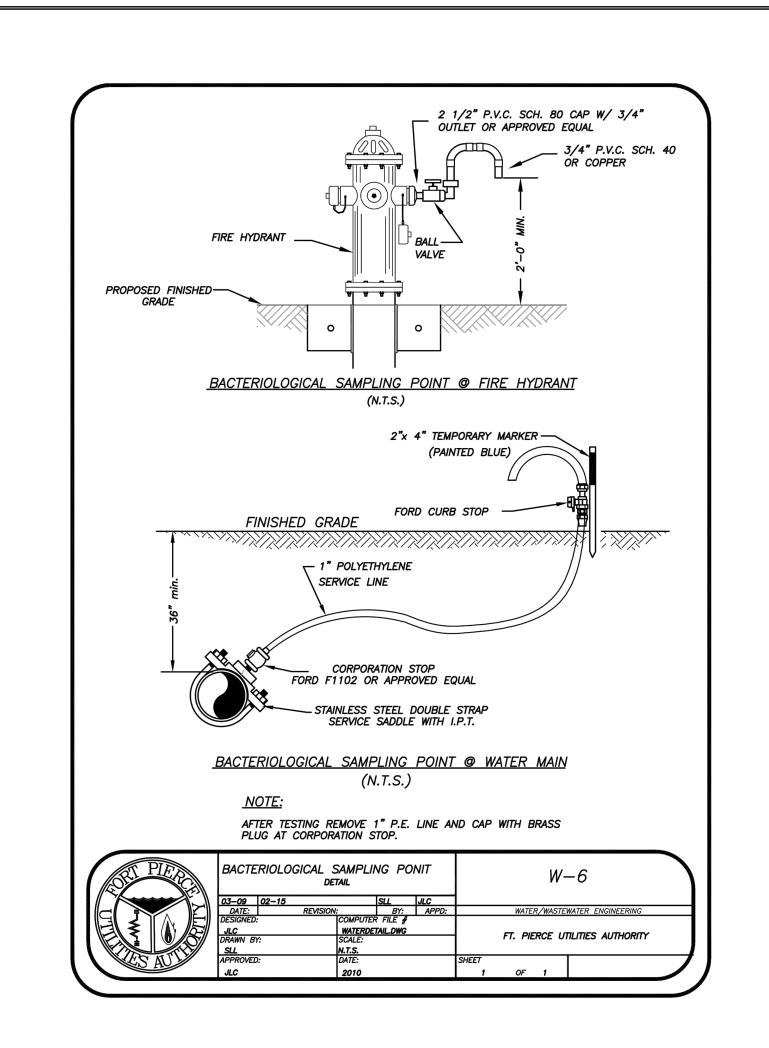
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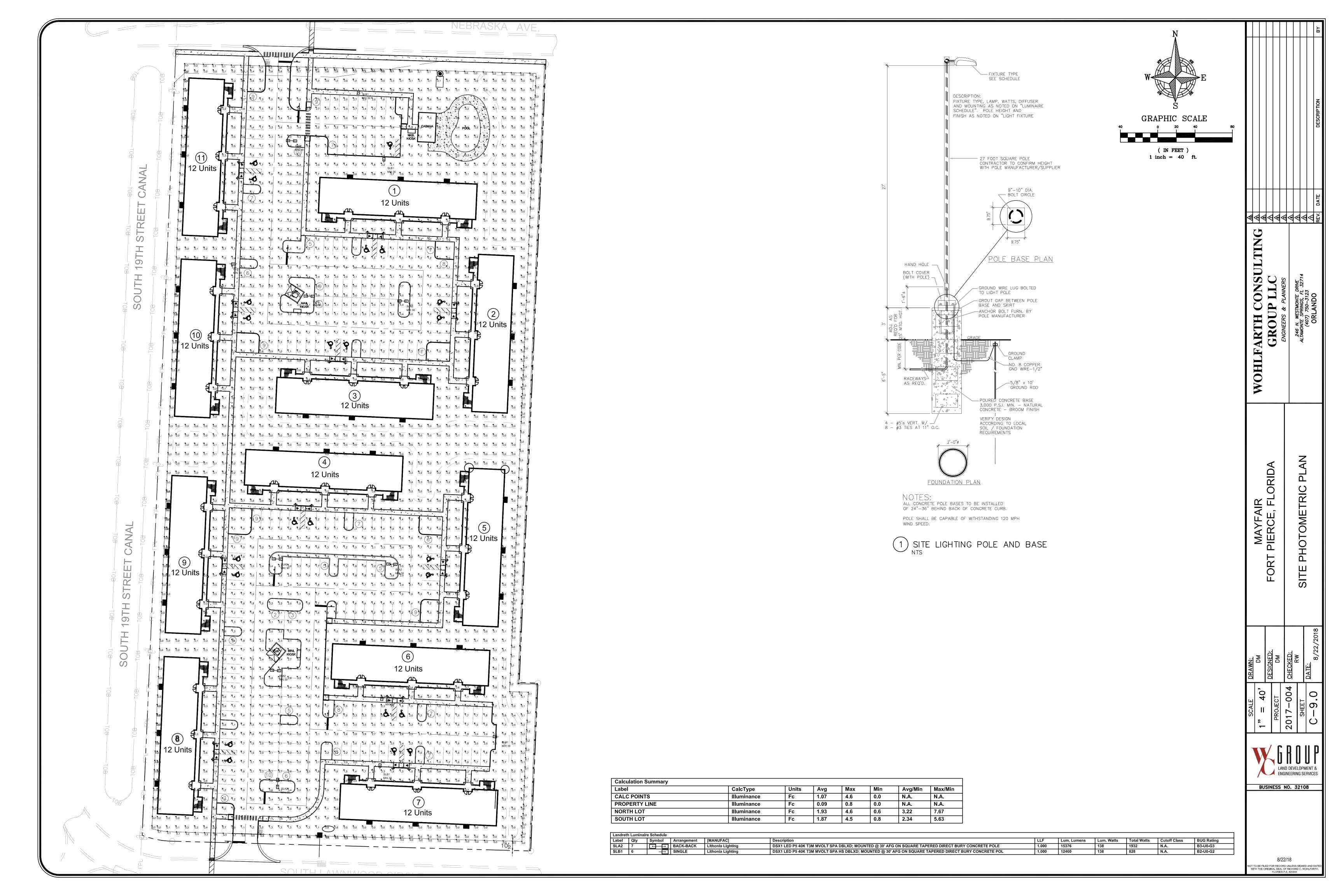
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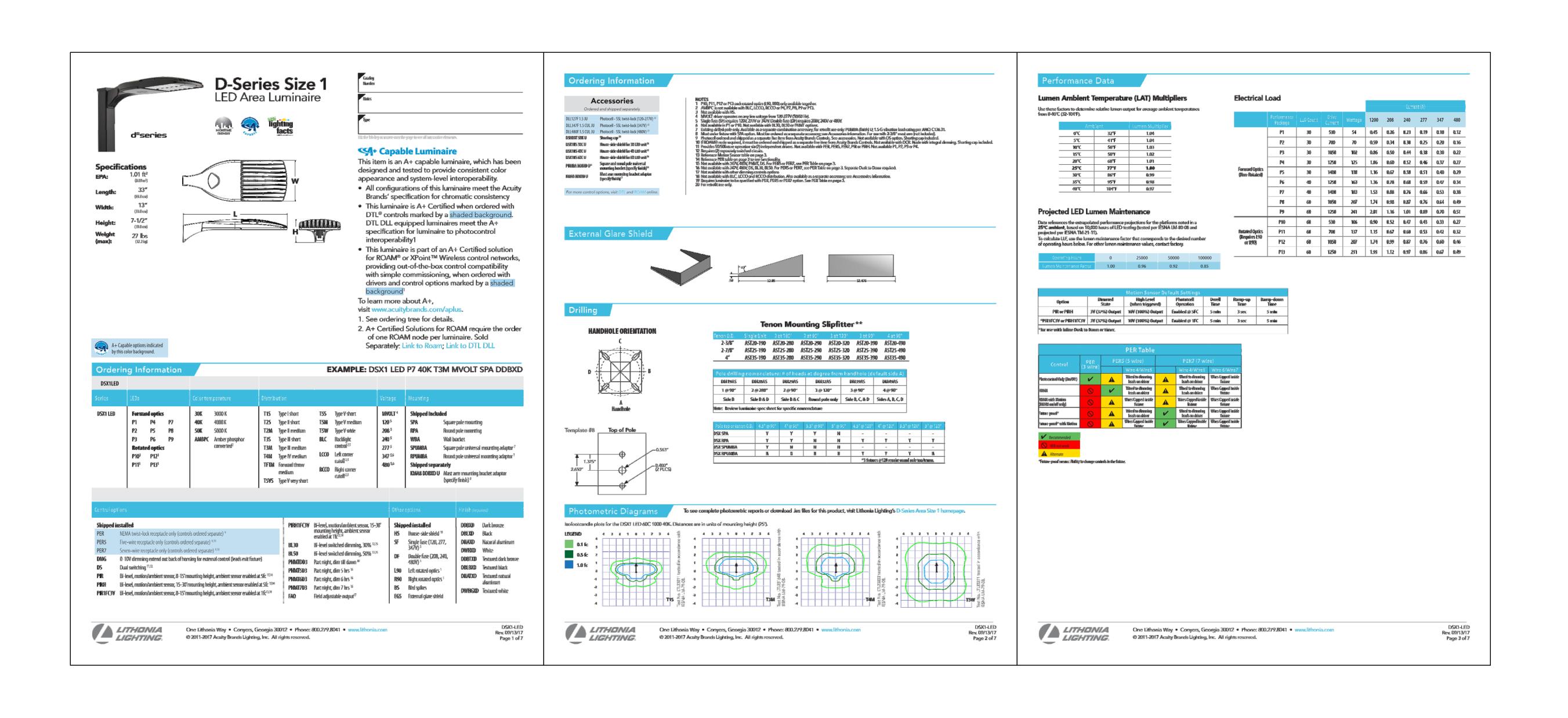
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	WOHLFARTH CONSULTING	ENGINEERS & PLANNERS	246 N. WESTMONTE DRIVE ALTAMONTE SPRINGS, FL 32714 (407) 750—3123 ORLANDO							
	MAYFAIR	FORT PIFRCE FLORIDA					SILE PHOLOMELKIC COL SHEELS			
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- 2. The Contractor shall be responsible for verifying all underground utilities prior to digging in any area. The Contractor shall notify all necessary utility companies 48 hours 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. Drawings are prepared according to the best information available at the time of preparing these documents.
- The Contractor is responsible to ensure proper watering and maintenance of new and relocated materials during the warranty period.
- Contractor is to report any discrepancies between the construction drawings and field conditions to the Owner immediately.
- The Contractor shall be responsible for the guarantee of all plant material for a period of twelve (12) months from the date substantial completion. Substantial completion constitutes the beginning of guarantee period
- Contractor shall familiarize himself/herself with existing site conditions prior to initiating planting. All existing site furnishings, paving, landscape and other elements to remain shall be protected from any damage throughout all construction phases unless otherwise noted.
- Landscape Contractor shall coordinate all work with related contractors and with the general construction of the project in order not to impede the progress of the work of others or the Contractor's own work. Landscape contractor shall provide schedule of his/her works two weeks in advance, beginning two weeks prior to commencing landscape trade construction.
- Contractor shall be responsible to remove existing ground cover for all planting beds as specified prior to planting relocated material. Contractor shall be responsible to replace all portions of existing landscape and hardscape areas damaged while completing planting installation with same grass or materials species to the satisfaction of the Owner.
- The Contractor shall bear all costs of testing of soils, amendments, etc. associated with the work and included in the specifications. Prior to commencement of the landscape planting work the Contractor shall provide complete soil tests with recommendations for the installation area.
- 10. All plant material that may need to be replaced shall be in full and strict accordance to Florida No. 1 grade, according to the "Grades and Standards for Nursery Plants", published by the Florida Department of Agriculture and Consumer Services, the project manual and/or specifications. Plant material in some cases may exceed Florida No. 1 grade in order to meet the minimum requirements for the project.
- 11. Landscape Contractor shall field stake the location of all plant material prior to initiating installation for the review and approval of the Owner and/or Landscape Architect.
- 12. Landscape Contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/or existing above ground elements. All changes required shall be completed at the Contractor's expense and shall be coordinated with the Owner and the Landscape Architect.
- 13. Any substitutions in size and/or plant material must be approved by the Landscape Architect or Owner prior to modification of the contract, purchasing and delivery of plants. All plants will be subject to approval by Landscape Architect and/or Owner before planting can begin. All plant materials will not include any plants considered to be invasive to South Florida's native plant communities.
- Contractor shall refer to the landscape planting details, general notes and the project manual and/or specifications for further and complete landscape planting instructions
- Landscape Contractor shall coordinate all planting work with permanent or temporary irrigation work. Landscape Contractor shall be responsible for all hand watering as required by Owner to supplement irrigation watering and rainfall. Landscape Contractor shall be responsible for hand watering in all planting areas, regardless of the status of existing or proposed irrigation.
- Landscape Contractor shall clean the work areas at the end of each working day. Rubbish and debris shall be collected and deposited off-site daily. All materials, products and equipment shall be stored in an organized fashion as directed by the
- 17. Landscape Contractor shall regrade all areas disturbed by plant removal, relocation and/or installation work. Landscape Contractor shall replace (by equal size and quality) any and all existing plant material disturbed or damaged by plant removal, relocation, and/or installation work.
- Site distance concerns must be maintained for clear site visibility from thirty (30) inches to seventy - two (72) inches. tree trunks excluded as specified
- 19. Guying / staking practices shall not permit nails, screws, wires etc., to penetrate outer surface of tree or palm. Trees or palms rejected due to this practice shall be replaced at the Contractor's expense.
- 20. Burlap material, wire cages, plastic straps, etc., must be cut and removed from top one - third (1/3) of root ball. Remove all nylon/ non organic material.
- 21. Trees grown in grow bags or grow bag type material are not allowed.
- 22. All planting materials shall meet or exceed Florida Grade # 1 as specified in Grades and Standards for Nursery Plants and Part II, Palms and Trees,
- 23. All installed landscape and design specifications shall meet or exceed the minimum requirements as shown in the City of Apopka Development Code.
- 24. The Contractor shall not relocate or demolish any existing trees or palms on site before appropriate tree relocation and clearing and grubbing permits are obtained from the ADJ.

TREE PROTECTION AND RELOCATION NOTES

All trees and palms will be evaluated for protection and relocation. Relocated trees will be handled in accordance with the following specifications. Trees to be removed will be mitigated as required.

1.1 WORK TO BE PERFORMED AND WORK INCLUDED

A. Provide the following: Prepare and relocate trees and palms designated for relocation within the project boundaries into holding areas, to include all aspects of preparation, acclimatization, holding.

- relocation, protection, and maintenance. Protection and care of existing trees and palms to remain within the project boundaries. 1. Installation and operation of temporary irrigation system and hand watering as
- required by these specifications. Establishment of holding areas as necessary to support the phasing of the project.
- Follow-up maintenance as required by these specifications.
- Labor, materials, equipment and services to complete all preparation, relocations and protection work as indicated on the drawings, as specified herein, or both.
- 2.1 PREPARATION FOR RELOCATION OF TREES AND PALMS

A. Crown Pruning

- 1. All pruning on site shall conform to ANSI Standard A-300, 2001.
- B. Fertilization and Watering

Preparation

- a. All Trees and Palms to be relocated shall be treated with wetting agents, fertilizers, root stimulants, and soil conditioners at the time of relocation. See specifications.
- b. Form and maintain an earth berm 6" high outside the proposed root ball prior to watering and apply 3" approved mulch within saucer. Water application shall saturate the root ball to its entire depth.

C. Root Pruning

All trees and palms to be relocated are to be provided with an automatic irrigation system which provides 2 bubbler heads to each tree and palm, prior to root pruning.

Provide irrigation timer, or battery powered valve to water trees to be relocated. Hand watering in lieu of automatic system shall not be allowed, however hand watering shall be performed to avoid lapses should the automatic system be inoperable for more than 24 hours and during the initial planting period as specified.

2. Barricades

Barricade all existing trees and palms with six foot (6') chain link fence or other barricade approved by Owner.

Root Pruning Technique - All trees shall be excavated by digging a trench 36" deep, either by hand or with a trenching machine designed for this purpose. Hand cut broadleaf tree roots after trenching to produce clean cuts with no splits or tears. Trees to be root pruned shall have a minimum root ball size of 10" per 1" of caliper measured at DBH for broad leaf trees, 30" for Sabal Palms, 42" for Coconut Palms. Sabal palms shall not require root pruning.

Timing - All broadleaf trees are to be relocated shall be maintained for a minimum of ten (10) weeks after root pruning prior to relocation. All palms except Sabal Palms, shall be maintained a minimum of four (4) weeks prior to relocation.

2.2 RELOCATION OF TREES AND PALMS

Preparation - Trees and palms shall be thoroughly soaked to the full depth of the root ball daily for seven consecutive days prior to relocation. Accurately locate position and elevation where all trees are intended to be planted, for verification by Landscape Architect. Verify that no overhead or underground utilities, existing or proposed, conflict with proposed locations.

B. Digging and Handling

Determine line of previous root pruning and excavate around root mass to leave area outside line of root pruning undisturbed. Digging shall be accomplished so as to produce clean cuts on all roots without tearing or splitting. Trenching shall be a minimum of 48" deep.

Trees shall be handled in such a way as to avoid damage to bark and limbs subject to support cables or chains. Attach padded support cables or chains at multiple points where possible.

Root balls shall be undercut prior to lifting. Do not force tree from ground prior to undercutting. Ball depth to be determined upon assessing conditions at time of trenching, to keep intact the entire root ball.

Trees shall be properly wrapped during moving so trunks will not be scarred and damaged and to avoid broken limbs. Broken limbs or scarred trunks shall cause tree to be unacceptable and rejected at the Owner's option. Root balls and foliage shall be kept moist during all phases of

Partially backfill tree pits with 12" of approved planting soil prior to setting tree. This layer of soil to be thoroughly drenched prior to relocation to achieve a stable platform at the correct elevation so that the top of root ball is 1" above proposed grade.

Backfilling - Flood bottom foil layer to settle tree into best position and to remove air pockets. Continue to flood root ball as planting soil is deposited to insure removal of all air pockets. Produce saucer to retain water per drawings.

Bracing - Support tree with machinery until bracing is complete. Buttresses may support separate trunks on multiple trunk trees. Maintain braces until completion of project.

Irrigation - Install bubbler heads on all trees and palms. Connect each tree's system immediately to water source. Additionally, all transplanted trees and palms shall be hand watered daily for a period of six (6) weeks after transplanting. The irrigation system is designed for maintaining plant material only, and does not provide the volume of water required immediately after transplanting. Set time to run daily, to provide an equivalent of 6" of rain per week for 30 days, then reduce to equivalent of 3" per week.

2.3 PROTECTION AND CARE OF EXISTING TREES AND PALMS TO REMAIN

Watering - Existing irrigation shall remain operable to the greatest extent possible during construction. All on site trees to remain shall be supplied with temporary irrigation to remain operable until permanent irrigation is operable. Existing irrigation system to be demolished may be utilized as the temporary irrigation system.

Barricading - Barricade all existing trees and palms with six foot (6') chain link fence or other barricade approved by Owner. Barricades shall be installed at an offset distance two feet (2') outside the tree drip line/edge of tree canopy to the extent practical, prior to any construction

SOIL PREPARATION AND SOIL MIX

- 1. All plants noted for removal shall be removed and properly disposed of off-site at contractor's expense unless
- 2. Apply Roundup (manufactured by Monsanto Corp. or equal.) according to manufacturer's rate and specification within limits of all areas to be planted. Protect existing plants to remain from overspray or spray within root zone. Contractor to ensure total weed eradication from all areas to be planted.
- 3. Before replacing topsoil, rake subsoil surface clear of stones (1" diameter and larger), debris, rubbish, and remaining roots from removed plant material.
- 4. Scarify subsoil to a depth of six inches (6").
- 5. Contractor to apply "Surflan" or equal, or approved pre-emergent herbicide in accordance with manufacturer's rate and
- 6. PLANTING SOIL MIXES

Existing soil may be used for planting mixes at owner's discretion if deemed suitable by testing provided by A&L southern laboratories to meet the required specifications.

SOIL CONDITIONERS

2.4 Soil Amendments

- Aluminum Sulfate: Manufacturer's standard commercial grade.
- Peat: Federal Specifications Q-P-166 Type 1, Class B, Sphagnum moss. Pesticides: As recommended by applicable Agricultural Public Agencies.
- Herbicides and Sterilizers:
- "Ronstar" pre-emergent herbicide or approved equal
- 2. "Roundup" systemic herbicide or approved equal

Soil Amendments:

1. Fertilizer/ Amendments

- a. All fertilizers shall be manufactured from quality materials, be free from impurities, uniform in composition meet recognized standards for effectiveness and be free flowing and suitable for application with approved equipment.
- b. All fertilizer shall be delivered to the site in bags or other convenient containers, each fully labeled, conforming to the applicable state fertilizer laws, bearing the grade and the trade name of the
- c. Die Hard Root Reviver Endo and Ectomycorrizal inoculant, as manufactured by Die hard, 1.800.628.6373 or approved equal.
- c. Die Hard Transplant One Step Endo and Ectomycorrizal inoculant, as manufactured by Die hard, 1.800.628.6373 or approved equal.
- d. Time release, Palm Mix fertilizer with minor elements or approved equal.
- e. Time release, Tree and Shrub Mix fertilizer, 6-6-6, with minor elements or approved Equal.
- f. Granular Triple Super Phosphate as manufactured by IMC. Agrico. 708.970.3000. g. Agriform Planting Tablets, 8-8-8 plus minors, as manufactured by Grace Sierra, 408.263.8080 or

j. Soil conditioner to be "Super Lesco Wet", as manufactured by Lesco, Inc. or Approved Equal.

- approved equal. h. Scott's Turf Starter (16-25-12) or approved equal.
- i. Wetting agent to be Terra Sorb or approved equal.
- 7. Florida peat shall be free of deleterious materials that would be harmful to plant growth, shall be free of nematodes, shall be of uniform quality, and shall have a pH value between 5.3 and 6.5 (as determined in accordance with ASTM E70). Florida peat shall be sterilized to make free of all viable nut grass and other undesirable weeds.
- 8. Topsoil shall be natural, fertile, agricultural soil capable of sustaining vigorous plant growth. It shall be of uniform composition throughout, with admixture of subsoil. It shall be free of stones, lumps, live plants an their roots, sticks, and other extraneous matter. Spread topsoil mixture to minimum depth of four inches (3") throughout all lawn areas and twelve inches (8") in all areas to be landscaped.
- 9. Remove all rocks and other objects over one inches (1") in diameter. 10. Smooth all soil mixture to five inches (5") below top of surrounding pavement edges. This allows room for 3" of
- mulch and 2" clear space below top of pavement. 11. Smooth topsoil mixture to two inches (2") below finish grade in areas to be sodded.

12. Topsoil shall not be extremely acid or alkaline, nor contain toxic substances which may be harmful to plant growth.

The topsoil pH shall be in the range of pH 5.5 to 6.5. If necessary, the Contractor shall apply the appropriate soil

- amendments adjusting soil pH to assure a pH range of 5.5 to 6.5. 13. Finish grade all topsoil areas to a smooth, even surface, assuring positive drainage away from the structures and
- 14. Contractor shall assure percolation and drainage of all planting pits prior to planting. Contractor will be responsible for all plants lost due to the lack of percolation.

PLANTING SPECIFICATIONS

eliminate any low areas which may collect water.

- 1. The Contractor is responsible for maintaining, in full all planting areas (including watering, spraying, mulching, mowing, fertilizing, etc.) until the job is accepted, in full, by the Owner and/or Landscape Architect.
- All root balls shall conform to the size standards set forth in "American Standards for Nursery Stock".
- All plant material shall be protected during transport and delivery to final location with shade cloth or other
- All trees must be guyed or staked as shown in the details.

acceptable means of windburn prevention.

- Installation- All plant material shall be installed in a sound, workman- like manner and according to accepted good planting and tree relocation procedures with the quality of plant materials as hereinafter described. All elements of landscaping shall be installed so as to meet all applicable ordinances and code requirements.
- There shall be no chains or cables used on trees or palms. Handle with two inch (2") minimum width nylon straps or equal.
- Contractor shall assure drainage and percolation of all planting pits prior to installation of plant material. Contractor shall fill all tree pits with water before planting to assure that proper drainage and percolation is available. Correct if required to assure percolation. Contractor is responsible for replacement of all plants lost due to inadequate drainage conditions.
- Contractor to request final acceptance of project in writing. If all work is satisfactory and complete in accordance with conditions of contract documents, then the Owner and the Landscape Architect shall declare the project substantially complete.
- Contractor to replace rejected plant material within one (1) week of written notice.
- 10. Contractor shall mulch all plant material throughout and completely to a three inch (3") depth of loose, weed free mulch as specified.
- 10. Plant Material which is not installed at the direction of the landscape architect or owner will become the property of the contractor unless it becomes relocated on site. The Contractor shall provide the owner a credit for any plant material not installed on the site.

LANDSCAPE NOTES (CITY OF FORT PIERCE)

1) TO SCHEDULE A LANDSCAPE INSPECTION FOR ALL COMPLETED PERMITS. CALL ALL ASSOCIATED PERMIT NUMBERS INTO THE AUTOMATED INSPECTION SYSTEM AT (407) 836-282 5 AND REQUEST A CODE "270" ZONING/LANDSCAPE INSPECTION. INSPECTIONS ARE CONDUCTED ON TUESDAYS AND FRIDAYS ONLY AND SHALL BE CALLED IN BY MIDNIGHT PRIOR TO DAY OF INSPECTION. *** ANY TREES DESIGNATED TO BE PRESERVED ON THIS PLAN BUT THAT ARE SUBSEQUENTLY REMOVED SHALL BE CONSIDERED A VIOLATION PER S EC. 15-281(E) AND AS SUCH, SHALL BE REPLACED IN INCHES ON SITE AT A 2:1 RATIO (NON-SPECIMEN TREES) A ND AT A 4:1 RATIO (SPECIMEN TREES). AS AN ALTERNATIVE, THE VIOLATION MAY BE SATISFIED BY PAYMENT IN TO THE COUNTY TREE FUND AT A RATE OF \$106 PER INCH AND \$212 PER INCH RESPECTIVELY OR BY SOME COMBINATION OF PLANTING AND PAYMENT. MITIGATION SHALL BE SATISFIED PRIOR TO RELEASE OF ZONING HOLD(S). *** NEWLY PLANTED TREES SHALL BE INSPECTED FOR REMOVAL OF ALL NON-BIODEGRADABLE BURLAP AND STRAPPING FROM THE TOP OF THE ROOT BALL. METAL STRAPPING HOOKS SHALL BE REMOVED OR BENT DOWN ALONG SIDE OF THE ROOT BALL AND COVERED WITH SOIL SO AS TO NOT PROTRUDE ABOVE GRADE. MULCH SHALL BE APPLIED 12"-18" AWAY FROM THE TREE TRUNK IN ORDER TO REDUCE INTERCEPTION OF WATER TO THE TREE ROOTS. GO TO HTTP://HORT.I FAS.UFL.EDU/WOODY/OVER-MULCHING.SHTML FOR MORE INFORMATION.

2) MULCH, PER SEC. 24-6(B)(4) SHALL BE ORGANIC AND SHALL ALL BE SPECIFIED IN PLANT BEDS AND AROUND INDIVIDUAL TREES. WHEN APPLIED TO TREES, MULCH SHALL NOT BE PLACED ON TOP OF THE ROOT BALL OR BE PLACED AGAINST THE TRUNK. MULCH SHALL BE APPLIED A MINIMUM OF 12" TO 18" FROM THE TRUNK FOR ANY SIZED TREE. MATERIALS THAT DO NOT BIODEGRADE SUCH AS ROCK AND SHELL, ARE NOT DEEMED ACCEPTABLE. FAILURE TO INSTALL MULCH (AND TYPE OF MULCH) AS PROVIDED IN THE SPECIFICATION ABOVE MAY RESULT IN A FAILED INSPECTION. SEE HTTP://HORT.IFAS.UFL.EDU/WOODY/OVER-MULCHING.SHTML FOR MORE INFORMATION.

3) ALL AREAS TO RECEIVE 100% COVERAGE USING AN UNDERGROUND IRRIGATION SYSTEM WITH A RAIN SENSOR. IRRIGATION CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT OF INSTALLED IRRIGATION SYSTEM.

4) I HEREBY CERTIFY THAT THESE LANDSCAPE, IRRIGATION, AND TREE MITIGATION SHEETS ARE DESIGNED IN COMPLIANCE WITH THE ORANGE COUNTY CODE(S) CHAPTER 15 AND CHAPTER 24. THE IRRIGATION HAS BEEN DESIGNED AND WILL BE INSTALLED PER CHAPTER 37, SECTIONS 601-613.

5) THE IRRIGATION SYSTEM TO BE INSTALLED WILL BE A TEMPORARY SYSTEM FOR THE PURPOSE OF ESTABLISHING PLANT MATERIAL.

6) ALL EXISTING INVASIVE EXOTIC PLANTS, AS LISTED ON THE FLORIDA EXOTIC PEST PLANT COUNCIL'S INVASIVE SPECIES LIST SHALL BE REMOVED. (ANY DISTURBANCE OF WETLAND AREAS REQUIRES COMPLIANCE WITH CH.15 OF THIS CODE AND REVIEW BY THE COUNTY'S ENVIRONMENTAL PROTECTION DIVISION.)

RESIDENTIAL PSP NOTES:

1. Residential PSP s shall comply with Section 15-306 concerning minimum number of trees per lot. 2. Any trees proposed to be preserved on this approved PSP tree preservation plan that are subsequently removed, shall be considered a violation and as such shall be replaced (in inches) on site at a 2:1 ratio for Nonspecimen trees and at 4:1 for Specimen trees per Section 15-281(e). As an alternative, the violation may be satisfied via payment into the Orange County Tree Fund or by some combination of payment and onsite planting. The current fee, as may be amended by the BCC, is \$106.00 per inch. Mitigation must take place at time of permitting (or the recording of the plat, if the violation is discovered prior to platting). The removal of such trees, if any, shall not result in a net loss in the required number of trees per Section 15-306 of the

Orange County Code. 3. Tree removal mitigation per lot is the responsibility of each lot owner and shall be consistent with this tree

survey / removal / replacement plan. **4.** Any trees proposed to be preserved on this plan shall not have any fill or excavation at points closer than six feet from the base of the tree or at the radius of the drip-line of the protected tree or stand of trees,

5. Payment of any tree mitigation fees shall take place prior to the recording of the plat.

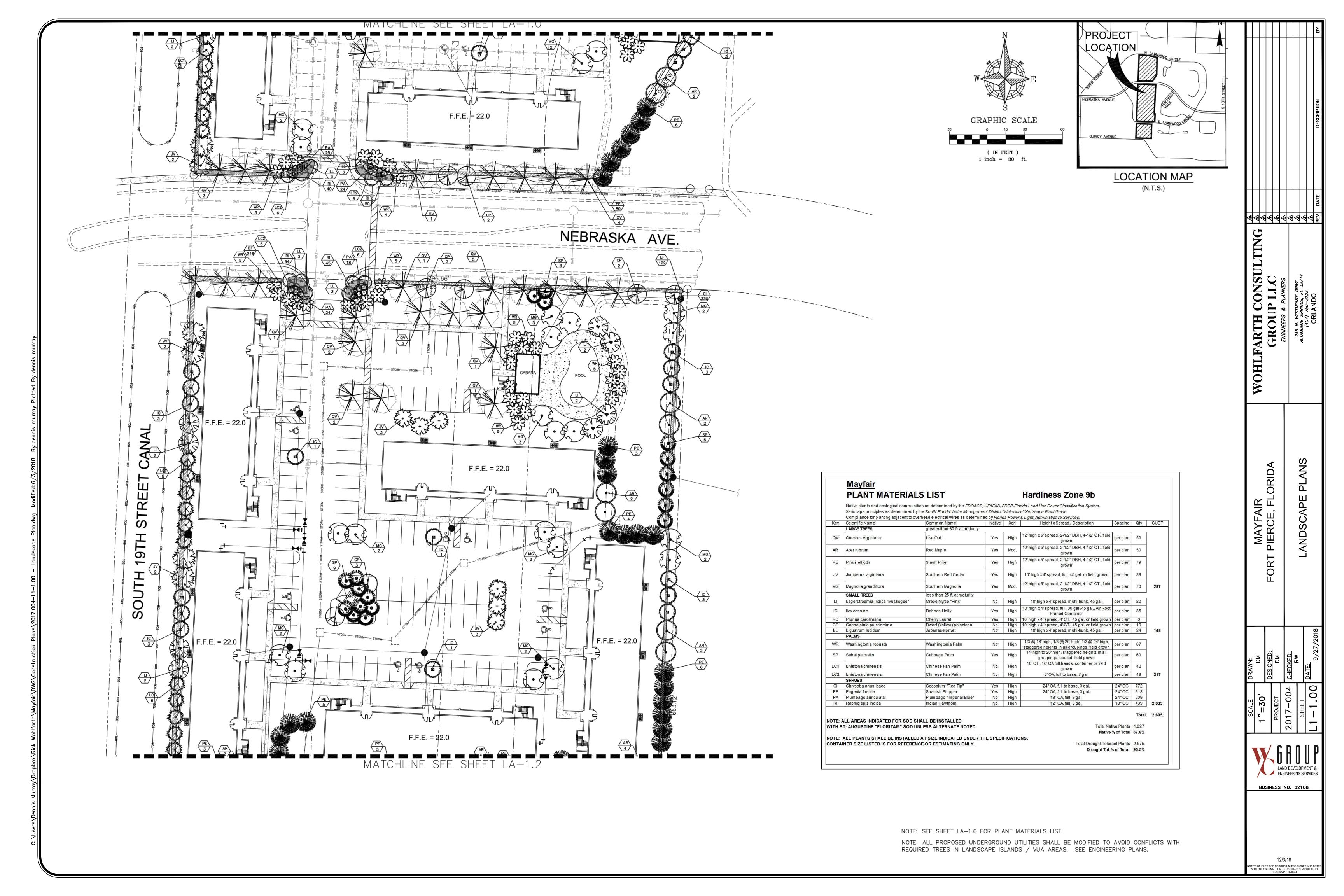
6. A Tree Preservation/Mitigation Plan is included with this PSP submittal. Due to final site engineering evaluation, up to (but no more than) 10% of the amount of trees (in inches) shown to be preserved may be removed, provided such removals are reflected in an adjusted Tree Preservation/Mitigation Plan submitted and approved by the Zoning Arbor Office prior to removals. Such removals and mitigations shall be in accordance with regular mitigation requirements, and shall not be considered a violation. However, any proposal or removal of more than 10% shall require that the Tree Preservation/Mitigation Plan (and PSP) return to DRC for a Change Determination, where the proposal for excess removal may be considered a Substantial Change, and/or may consider the removals to be a violation of the Tree Preservation/Mitigation Plan (and PSP) thereby requiring penalty mitigation to be provided.

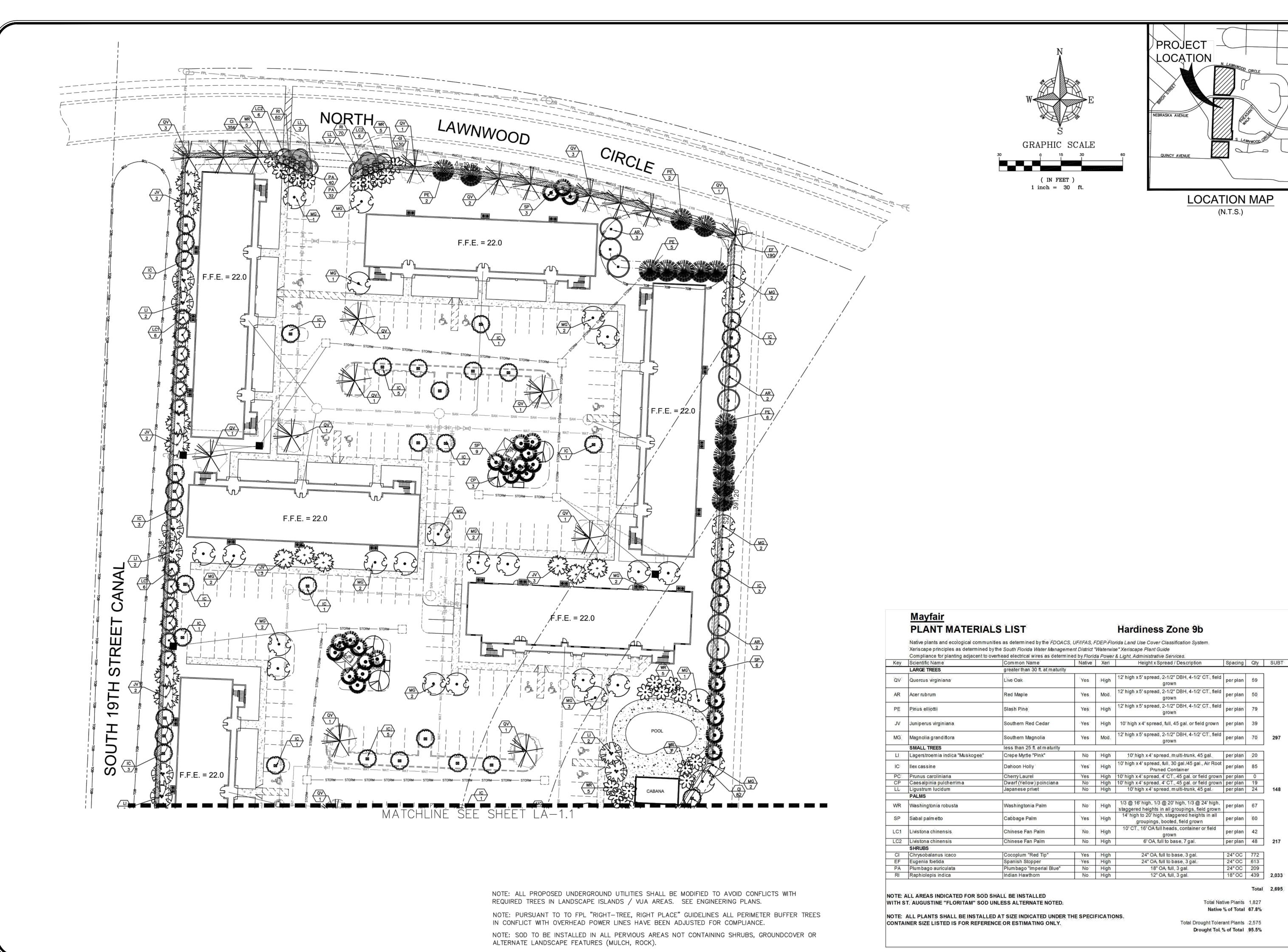
> NOTE: Failure to notify Landscape Architect of plan, detail, or specification discrepancies prior to construction, makes contractor responsible for all costs incurred for construction charges, not the owner or his representative (Landscape Dynamics Construction Co. Inc.) The Owner must maintain the height of all plants within the "Line-Of-Site" triangle area to a height of no greater than 24" above grade for shrubs and groundcover, and tree branching no lower than 72" above finish grade, to ensure clear site line views toward traffic at road and driveway intersections. Landscape Dynamics Construction Co. Inc., is not responsible for continued maintenance of such plant material. The owner, leasing company and/or the landscape maintenance company accepts full responsibility for these maintenance requirements.LANDSCAPE CONTRACTOR TO HAND WATER ALL PLANT / TREE MATERIAL FOR AT LEAST 30 DAYS AFTER INSTALLATION.

48 HOURS BEFORE YOU DIG CALL SUNSHINE 1-800-432-4770 or 811 IT'S THE LAW IN FLORIDA FLORIDA LAW REQUIRES EXCAVATORS TO NOTIFY OWNERS OF UNDERGROUND FACILITIES NO LESS THAN TWO (2) DAYS PRIOR TO EXCAVATION

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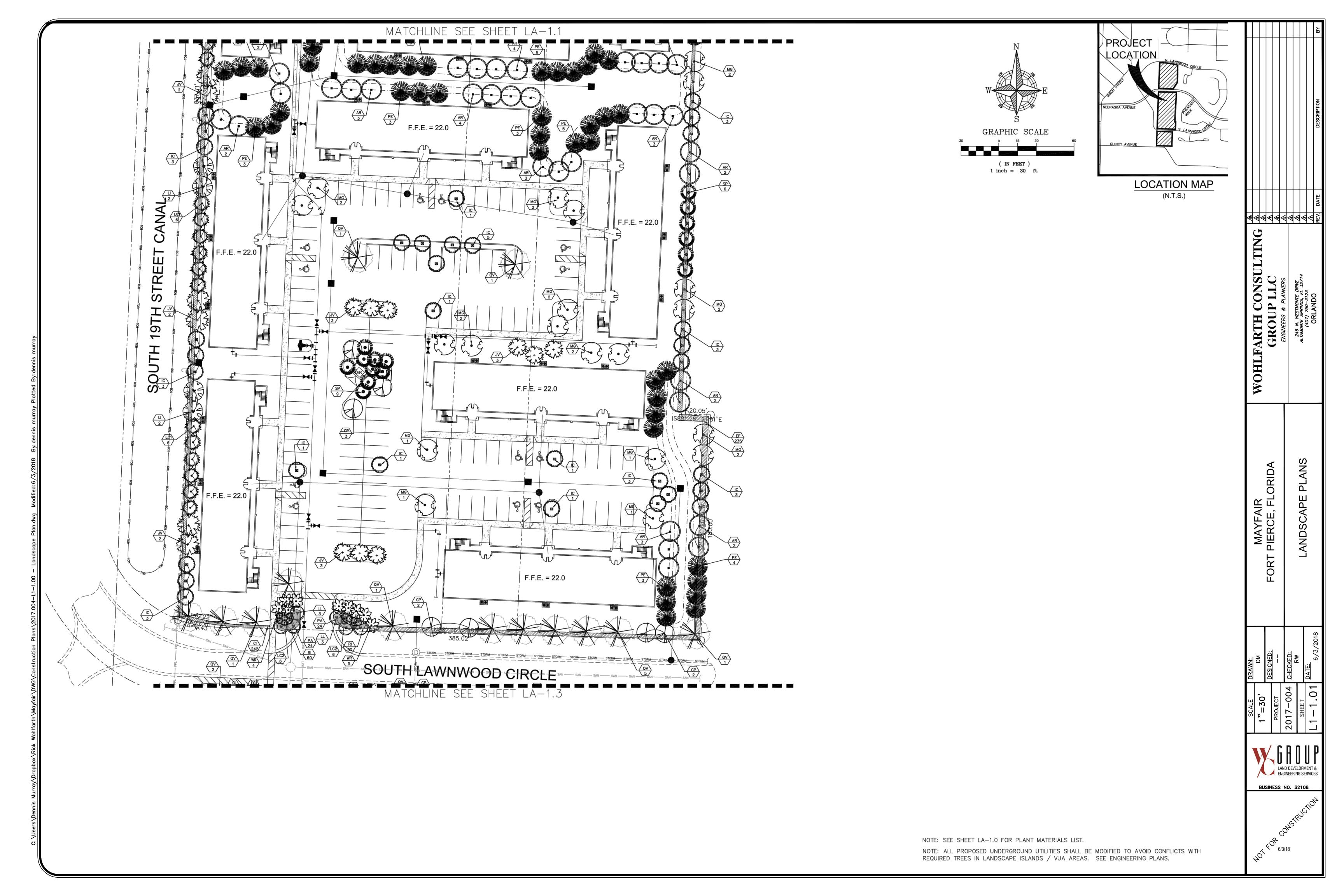
LAND DEVELOPMENT &

ENGINEERING SERVICES

BUSINESS NO. 32108

12/3/18

Total 2,695



TERMINAL LEADER SHALL NOT BE CUT AT ANY TIME.

BRANCHES OR TWIGS TO BE REMOVED.

DIAMETER WITH APPROVED TREE PAINT.

WRAP TRUNK WITH BURLAP UNDER BATTENS.

DOUBLE BAND TO SECURE BATTENS. MIN. THREE (3)

2"x 4"x 8' WOOD STAKES - MIN. (3) PER TREE. STAKES

SHALL BE SECURED TO TREE WITH NAILS HAMMERED

REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. ALL NON-

NODEGRADEABLE WRAPPINGS AND SYNTHETIC BURLAP

TO BE COMPLETELY REMOVED BEFORE PLANTING.

3" HIGH WATERING SAUCER (REMOVE & REPLACE

APPROVED BACKELL SOIL 50% ORGANIC TOPSOIL

COMBINATION OF 1/2 CLEAN, NATIVE SOIL WITH 1/2

ALSO BE INCORPORATED INTO THE BACKFILL MIX. 2"x4"x36" WOOD STAKE (BRACE) WITH COLORED FLAG

50/50 MIX) AND 50% PREPARED MIX (1/2 PEAT, 1/2 COARSE

AND). pH TO BE 6.5 - 7.5. IF TOPSOIL NOT AVAILABLE A

50/50 MIX SHALL BE PERMITTED. APPROVED FERTILIZER AND TERRASORB OR OTHER SOIL SUPPLEMENT SHALL

WITH SOD AT END OF ESTABLISHMENT PERIOD).

- 3" LAYER OF APPROVED MULCH. LEAVE 6" WIDE

AREA CLEAR OF MULCH AROUND TREE TRUNK.

TRUNK FLARE TO BE VISIBLE ABOVE GRADE.

INTO BATTENS AND SHALL NOT PENETRATE TREE.

— COLORED FLAGGING TAPE

UNDISTURBED SUB-BASE

I" THICK 3" X 6" WOOD BATTENS AROUND TRUNK

TRIM OR THIN BRANCHES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT OR CERTIFIED ARBORIST. ALL DEAD OR BROKEN

SPREAD

PROTECT BUD FONDS FROM DAMAGE CROWNSHAFT ON SOME SPECIES — WRAP TRUNK WITH BURLAP UNDER BATTENS. - DOUBLE BAND TO SECURE BATTENS. MIN. THREE (3) 1" THICK, 3" X 6" WOOD BATTENS AROUND TRUNK TO ATTACH STAKES. DO NOT GIRDLE PALM TRUNK. COLORED FLAGGING TAPE — 2"x 4"x 8" WOOD STAKES - MIN. (3) PER PALM. STAKES SHALL BE SECURED TO PALM WITH NAILS HAMMERE INTO BATTENS AND SHALL NOT PENETRATE PALM TRUNK. trunk) රු AREA CLEAR OF MULCH AROUND PALM TRUNK. TRUNK FLARE TO BE VISIBLE ABOVE GRADE. - REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. ALL NON-BIODEGRADEABLE WRAPPINGS AND SYNTHETIC BURLAP TO BE COMPLETELY REMOVED BEFORE PLANTING. 3" HIGH WATERING SAUCER (REMOVE & REPLACE W/SOD WHEN ESTABLISHED GW CW APPROVED BACKFILL SOIL: 50% ORGANIC TOPSOIL AND 50% PREPARED MIX (1/2 PEAT, 1/2 COARSE SAND). pH TO BE 7.0 - 8.0. IF TOPSOIL NOT AVAILABLE A COMBINATION OF 1/2 CLEAN, NATIVE SOIL WITH 1/2 50/50 MIX SHALL BE PERMITTED. FERTILIZER ADDITIVE TO BE 9-2-12 WITH +4 M SLOW-RELEASE, SHALL CONTAIN A FUNGICIDE AND SHALL BE INCORPORATED INTO THE BACKFILL MIX. PLANTING HOLE **DEPTH VARIES** -2"x4"x36" WOOD STAKE (BRACE) WITH COLORED FLAG 2x Root PALM PLANTING DETAIL-TYP.

not to scale

EDGE OF CURB, SIDEWALK OR ASPHALT

SOD ONLY

8'-0"

|----- 7'-6" ---|---- 7'-6" ---|

135°

REQUIREMENTS APPLY TO FIRE HYDRANTS, SIAMESE CONNECTIONS AND ANY OTHER FIRE EQUIPMENT FOR

BY THE AUTHORITY OF THE SOUTH FLORIDA FIRE PREVENTION

HIS DETAIL SHALL APPEAR ON ALL LANDSCAPE PLANS AND/OR APPROVED

CONSTRUCTION DRAWINGS PER PUBLIC SAFETY REGULATIONS.

-CLEAR ZONE BETWEEN EQUIPMENT AND

PROTECT FIRE FIGHTING EQUIPMENT.

FIRE HYDRANT CLEAR ZONE DETAIL

FRAMING MEMBER (WOOD) OR

STAINLESS STEEL EYE BOLT (#14) WITH

3" LONG LAG SHANK, SCREW DIRECTLY

PLASTIC OR LEAD SHIELD FOR MASONRY

TO FRAMING MEMBER OR PROVIDE

¼" U.V. RESISTANT CABLE TIES (BLACK)

(MARINE GRADE POLYETHYLENE) OR 3

NOTE: DO NOT WRAP OR CINCH TIES TIGHTLY

LOOPS OF #2 COATED WIRE (ELECTRICAL

AROUND INDIVIDUAL RUNNERS. PROVIDE

GENEROUS LOOPS TO ALLOW FUTURE

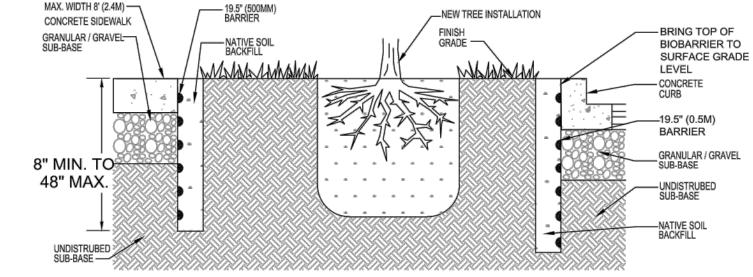
GROWTH AND PREVENT GIRDLING.

CONCRETE (MASONRY).

UTILIZING FIRE BASE ON PUBLIC OR PRIVATE PROPERTY.

_NEW TREE INSTALLATION BIOBARRIER FOR UTILITY LINE PROTECTION -ITILITY LINE WIRING LEEVE OR WATER SEWER PIPE-8" MIN. TO 48" MAX. BACKFILL MIX (SEE LANDSCAPE ARCHITECT'S PLANS / SPECIFICATIONS) — VARIES -

ROOT BARRIER DETAIL - UNDERGROUND UTILITY LINES



ROOT BARRIER DETAIL - PAVING / CURBING

THE CLEAR ZONE SHALL BE SODDED ONLY, AND BE FREE OF ALL OBSTRUCTIONS INCLUDING LANDSCAPE, MAIL BOXES, LAMP-POSTS AND OTHER OBJECTS, WITH EXCEPTION TO OTHER FIRE FIGHTING EQUIPMENT OR TRAFFIC SIGN POSTS TO LANDSCAPE PROFESSIONAL WILL SHAPE PLANTING BED TO PROVIDE POSITIVE DRAINAGE AWAY FROM **BUILDINGS AND TOWARDS** TRIM ZONE. ——— ACCENT 5' MIN. र (unless) -MIN. 6" DEEP PLANTING MIX AROUND ENTIRE SHRUB OR WALLotherwise PLANTING GROUNDCOVER ROOT BALL noted) SOIL MULCH - 3" DEEP MAX. UNDISTURBED SUB-BASE -- KEEP MULCH AND SOIL LOWER THAN ADJACENT SOD OR EDGE OF PAVEMENT. VARIES

VARIES TRIM ZONE PLANTING BED - SHRUB INSTALLATION DETAIL - CROSS-SECTION

not to scale

LARGE TREE PLANTING DETAIL-

not to scale

TREE PROTECTION BARRIER DETAIL

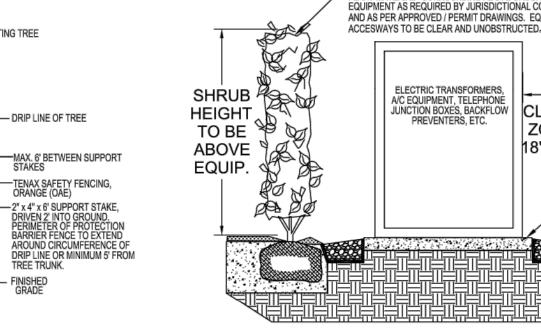
2x ROOT

BALL

GREATER THAN 3" CAL.

VINE TO WALL ATTACHMENT DETAIL

-PLANT MATERIAL - SURROUNDING ABOVE GROUNI



SCREENING SHRUBS TO BE 18" MIN. OR AS REQUIRED PER MFG'S. REQUIREMENTS. A/C EQUIPMENT. TELEPHONE JUNCTION BOXES, BACKFLOW | CLEAR - CONCRETE PAD AS PER EQUIPMENT INSTALLATION SPECIFICATIONS. ZONE* 18" min ∮ Ø -1'-0" WIDE X 1'-0" DEEP DRAIN ROCK BED, SLOPED AWAY FROM EQUIPMENT - LANDSCAPE FABRIC UNDER DRAIN ROCK 3" DEEP MULCH BED (TYP.) -FINISH GRADE APPROVED PLANTING SOIL MIX -UNDISTURBED SUB-BASE

GROUND MOUNTED EQUIPMENT SCREENING DETAIL

GENERAL NOTES, LANDSCAPE INSTALLATION SPECIFICATIONS

REFER TO SITE PLAN FOR SITE DATA AND UTILITITES. REFER TO ARCHITECTURAL PLANS FOR BUILDING FOOTPRINTS, ARCHITECTURAL INFORMATION AND DESIGNATION OF ELEVATIONS. REFER TO IRRIGATION PLANS FOR REQUIRED MATERIALS, SPECIFICATIONS, DETAILS AND COORDINATION ITEMS. REFER TO ENGINEERING PLANS FOR ALL GRADING, SITE WORK AND COORDINATION ITEMS. REFER TO WATER AND SEWER PLANS FOR ADDITIONAL, UNDERGROUND AND ABOVE—GROUND UTILITIES AND COORDINATION

PLANT MATERIALS ARE SPECIFIED FOR COMPLIANCE WITH MINIMUM CODE REQUIREMENTS AND GOVERNING AGENCY REVIEW COMMENTS AS OF THE DATE OF SUBMITTAL. SUBCONTRACTORS ARE BOUND TO THE GENERAL CONTRACTOR AND ARE TO ASSUME ALL OBLIGATIONS AND RESPONSIBILITES BY WHICH THE GENERAL CONTRACTOR IS BOUND TO THE OWNER. BOTH SHALL BE FAMILIAR WITH AND HAVE FULLY INVESTIGATED ALL LOCAL CODES AND ORDINANCES.

LANDSCAPE PROPOSALS SHALL PROVIDE UNIT COSTS AND SHALL INCLUDE: EXCAVATIONS, PLANT MATERIAL LISTED, DELIVERY AND INSTALLATION (LABOR), TURF SOD, SEEDING, TOP SOIL & FINE GRADING, SOIL BACKFILL, SOIL SUPPLEMENTS, FOLIAR SPRAYS, FERTILIZERS, GUYING AND STAKING, REQUIRED PRUNING, CLEAN-UP, WATERING AND ALL TAXES AND FEES NECESSARY TO SUCCESSFULLY ESTABLISH THE PROPOSED LANDSCAPE AND ECOLOGICAL COMMUNITIES.

THE CONTRACTOR/BIDDER SHALL HAVE CAREFULLY READ AND FULLY UNDERSTAND ALL DRAWINGS (TREE PRESERVATION, LANDSCAPE AND IRRIGATION, PLUS RELATED ENGINEERING AND ARCHITECTURAL), DETAILS, SPECIFICATIONS AND NOTES OF SUCH LANDSCAPE/PLANTING PLANS FOR THE IDENTIFIED PROJECT AND LOCATION; AND CONTRACTOR/ BIDDERS ACKNOWLEDGES SAME BY SIGNATURE, DATE & COMPANY NAME BELOW THAT THE BID SUMITTED REFLECTS AN ACCURATE INSTALLATION OF THE LANDSCAPE IN COMPLIANCE WITH ALL CONDITIONS SET FORTH, INCLUDING COORDINATION WITH RELATED TRADES, PROPERLY SEQUENCING WORK AND OFFICIAL ADDENDA. SO SWORN:

1. THE TERM "CONTRACTOR" REFERS TO THE PRINCIPAL COMPANY, OR OWNER/DEVELOPER, INCLUDING LANDSCAPING, OBLIGATED WITH THE RESPONSIBILITY FOR COORDINATING AND PERFORMING THE SITE WORK AND SECURING THE WORK OF SUBCONTRACTORS; DISCHARGING TO COMPLY WITH LOCAL BUILDING CODES AND ZONING ORDINANCES, AND WHICH IS THE ENTITY OF RECORD FOR OBTAINING PERMITS, SCHEDULING INSPECTIONS AND SECURING COMPLETION CERTIFICATES.

2. THE CONTRACTOR SHALL CUT. CLEAR. STUMP GRIND. EXCAVATE AND REMOVE ALL EXOTIC, INVASIVE AND DESIGNATED TREES FROM THE SITE AND AREAS THAT HAVE EVIDENCE OF PREVIOUSLY EXISTING TREES AND/OR PALMS; INCLUDES REMOVING DEBRIS, LITTER AND STONES OVER 1" DIAMETER.

3. THE CONTRACTOR SHALL REFER TO ALL TREE PRESERVATION PLANS, DETAILS AND SPECIFICATIONS IN CONJUNCTION WITH THE SITE/PROJECT TO LOCATE AND TAG ANY AND ALL EXISTING TREES AND/OR PALMS PROPOSED FOR PRESERVATION OR RELOCATION. THE CONTRACTOR SHALL ADHERE TO ALL DIRECTIVES AND AS SHOWN ON THE TREE PRESERVATION PLANS RÉGARDING ALL TREE OR PALM RELOCATIONS AND TREE REMOVAL.

GENERAL NOTES, LANDSCAPE INSTALLATION SPECIFICATIONS (cont.)

NON-ORGANIC SOILS WITHIN MIN. 10 FT. WIDTH OF THE ENTIRE BUILDINGS PERIMETER TO A MIN. 12 INCHES DEPTH. THE CONTRACTOR WILL BACKFILL THE STRIPS, ISLANDS AND BUILDING PERIMETERS WITH THE APPROVED 50/50 TOPSOIL MIX TO FINISHED GRADES. THE LANDSCAPE OR IRRIGATION PROFESSIONAL SHALL NOT PROCEED WITH WORK IN THESE DESIGNATED AREAS UNTIL SITE PREPARATION IS COMPLETE AND INSPECTED BY THE LANDSCAPE ARCHITECT AND/OR PERMITTING AGENCY.

5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES WHICH ARE PROPERLY MARKED OR FOR WHICH HE HAS NOT OBTAINED PROPER MARKINGS THROUGH THE ONE CALL SYSTEM - 72 HOURS BEFORE DIGGING - CALL TOLL FREE 1 (800) 432-4770 OR FROM LOCAL UTILITY DEPARTMENTS. ALL ELECTRICAL, GAS, TELEPHONE, FIBER OPTICS, CABLE, WATER AND SEWER SERVICES LOCATED ON-SITE, ON ADJACENT PROPERTIES WITHIN 10' AND WITHIN ADJACENT

6. THE CONTRACTOR SHALL PROVIDE ALL PROPOSED PLANTS AT FLA #1 GRADE OR BETTER AS DESCRIBED IN GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION AS PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND WILL PROVIDE CERTIFICATION FOR ANY AND ALL PLANTS IN DISPUTE. ALL PLANT MATERIAL PROVIDED SHALL MEET OR EXCEED THE MINIMUM SPECIFIED SIZE (HEIGHT, SPREAD, CALIPER, CLEAR TRUNK, ETC.) AS SHOWN ON THE LANDSCAPE PLANS. THE CONTRACTOR SHALL INSTALL PLANTS ACCORDING TO LANDSCAPE PLANS FOR SPACING AND PLACEMENT, AND PER THE LANDSCAPE DETAILS WITHOUT EXCEPTION. SHOULD ANY PLANT BE UNAVAILABLE THE CONTRACTOR WILL CONTACT THE LANDSCAPE ARCHITECT FOR RECOMMENDATIONS AND/OR APPROVAL OF

7. THE CONTRACTOR SHALL PROVIDE PROPER TRANSPORT AND DELIVERY OF PLANT MATERIAL TO THE JOB SITE. PLANT MATERIAL SHALL NOT BE DROPPED, SCARRED OR OTHERWISE DAMAGED AT ANY TIME. DAMAGED PLANT MATERIALS SHALL BE REJECTED BY THE OWNER OR OWNER'S REPRESENTATIVE, REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. ANY PLANTS OTHER THAN FL. #1 GRADE OR WITH INDICATIONS OF DISEASE, INSECT INFESTATION, BROKEN BRANCHES, LACK OF WATER, GIRDLING OR SCARRING AT DELIVERY SHALL BE REJECTED.

8. THE CONTRACTOR SHALL PROVIDE CERTIFIED ST. AUGUSTINE 'FLORITAM' SOD, UNLESS OTHERWISE INDICATED, TO ALL OPEN AREAS INSIDE THE PROPERTY NOT RECEIVING PLANT MATERIAL OR OTHER FORM OF GROUNDCOVER, LIVING OR NON-LIVING. THE CONTRACTOR WILL PROVIDE SOD TO ALL DAMAGED TURF AREAS, TO EDGE OF PAVEMENT AND TO THE EDGE OF WATER AT ALL WATER BODIES. ALL SOD SEAMS WILL BE BUTT JOINTS WITH ADJACENT ROWS STAGGERED AND ALL EDGE PIECES abutting tightly, leaving no gaps. The contractor shall repair and replace all sod on adjacent properties damaged by landscape installation work, AND SHALL NOTIFY THE OWNER OF THE ADJACENT PROPERTY, AND OBTAIN PERMISSION TO PERFORM SOD REPAIRS.

9. THE CONTRACTOR SHALL PROVIDE IMPORTED ORGANIC BACKFILL MIX AS NOTED ON THE PLANTING DETAILS WHICH WILL BE FREE OF ALL DEBRIS AND STONES OVER 1" DIAMETER. BACKFILL MIX WILL BE SANITIZED FROM HARMFUL BIOLOGICAL ORGANISMS, INCLUDING NEMATODES AND PARASITES AND WILL BE PH 6.5 - 8.0 RANGE AS DESCRIBED IN THE TREE OR PALM PLANTING DETAILS. NATIVE SOIL MAY BE MIXED WITH 50/50 MIX PER DETAILS ONLY IF APPROVED BACKFILL MIX IS NOT AVAILABLE THE CONTRACTOR SHALL SUBMIT WRITTEN LAB RESULTS, CERTIFICATION OF SOIL CONTENT AND TRUCKING RECEIPTS WITH TYPE AND VOLUME OF SOIL TO THE OWNER OR OWNER'S REPRESENTATIVE FOR VERIFICATION. BACKFILL WILL BE TESTED FOR CONTENT BY THE LANDSCAPE ARCHITECT AT ANY TIME. FAILURE TO PROVIDE APPROVED BACKFILL, CERTIFICATION OF SOIL CONTENT AND/OR TRUCKING RECEIPTS MAY RESULT IN REJECTION OF ENTIRE LANDSCAPE WITH REMOVAL AND REPLACEMENT COSTS BORN SOLELY BY THE CONTRACTOR.

10. THE CONTRACTOR WILL PROVIDE FERTILIZER FOR ALL PLANTS UPON INSTALLATION AS SPECIFIED ON THE PLANTING DETAILS. FERTILIZER WILL BE THOROUGHLY

11. THE CONTRACTOR WILL PROVIDE 'TERRASORB' OR OTHER APPROVED SOIL SUPPLEMENT (HUMECTANT AND HYGROSCOPIC COMPOUNDS), THOROUGHLY INCORPORATED INTO THE BACKFILL MIX ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS FOR ALL PROPOSED PLANT MATERIAL IN EXISTING SANDY SOIL OR ON FAST DRAINING

12. UNLESS OTHERWISE DICTATED BY CITY OR COUNTY CODE, THE CONTRACTOR SHALL LOCATE ALL TREES WITH A MATURE HEIGHT OF OVER 20' NO CLOSER THAN 15 FEET TO ANY LIGHT POLES. PALMS WILL NOT BE CLOSER THAN 10 FEET TO ANY LIGHT POLE. THE CONTRACTOR MAY FIELD ADJUST HORIZONTAL LOCATION OF TREES AND PALMS FOR BEST FIT WHEN COORDINATED WITH AND CONSENT GIVEN BY THE OWNER OR OWNER'S REPRESENTATIVE. THE LANDSCAPE/IRRIGATION CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL SITE LIGHTING LOCATIONS ARE COMPLETELY STAKED-OUT TO CONFIRM APPLICABLE SEPARATION.

13. THE CONTRACTOR SHALL INSURE THAT ALL PLANT MATERIAL LOCATED WITHIN THE SIGHT TRIANGLE DISTANCE AREAS AT ROADWAY INTERSECTIONS AND ACCESS POINTS PROVIDE AN UNOBSTRUCTED CROSS VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30" AND 8' IN HEIGHT. SEE LANDSCAPE PLANS FOR SIGHT TRIANGLES.

14. THE CONTRACTOR SHALL INSURE THAT ALL TREES OR PALMS LOCATED ADJACENT TO ANY OVERHEAD POWER LINES BE INSTALLED IN ACCORDANCE WITH FLORIDA POWER AND LIGHT'S "RIGHT TREE, RIGHT PLACE" GUIDELINES. ANY INSTANCES OF INSUFFICIENT SEPARATION BETWEEN TREES OR PALMS AND OVERHEAD LINES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION BEFORE INSTALLATION.

15. THE CONTRACTOR SHALL LOCATE ALL TREES AND PALMS CLEAR OF ALL TRAFFIC SIGNS AND IN SUCH A MANNER TO PREVENT BOTH THE TREE CANOPY AND PALM FRONDS FROM OBSTRUCTING ANY PORTION OF TRAFFIC SIGNS. THE LANDSCAPE/IRRIGATION CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL TRAFFIC SIGNAGE AND GUARDRAILS ARE COMPLETELY STAKED-OUT TO CONFIRM SEPARATION AND CLEÁR VISIBILITY OF SIGNS.

16. THE CONTRACTOR WILL PROVIDE 'WILT-PRUF' OR OTHER APPROVED SURFACANT TO BE SPRAYED ON ALL PROPOSED TREES AND PALMS IN AREAS OF SUSTAINED WINDS OF MORE THAN 10 KNOTS AND ALL COASTAL AREAS, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, TO PREVENT WINDBURN AND EXCESSIVE WATER

17. THE CONTRACTOR SHALL INTERIM SUPPLEMENTAL IRRIGATION, I.E. REGULAR THOROUGH, DEEP WATERING, TO ALL INSTALLED PLANT MATERIAL UNTIL SUCH TIME AS THE IRRIGATION SYSTEM IS INSTALLED AND HAS BEEN INSPECTED BY THE LANDSCAPE ARCHITECT AND DEMONSTRATED TO BE 100% OPERATIONAL, OR UNTIL THE CITY'S OR COUNTY'S FINAL INSPECTION, ACCEPTANCE AND PERMIT CLOSE-OUT.

18. THE CONTRACTOR SHALL PROVIDE ROOT BARRIER AT A VERTICAL DEPTH OF 18" MIN. TO 48" MAX. FOR ANY SHADE TREES OR LARGE PALMS WHICH ARE INSTALLED AS FOLLOWS: LESS THAN FIVE (5) FEET FROM ADJACENT ASPHALT OR CONCRETE PAVEMENT, WITHIN CURBED PARKING INSLANDS LESS THAN NINE (9) FEET INTERIOR WIDTH OR WITHIN SIX (6) FEET PROXIMITY TO UNDERGROUND UTILITY OR INFRASTRUCTURE. ROOT BARRIER SHALL BE "BIOBARRIER", "DEEPROOT PARTNERS, LP", OR APPROVED EQUAL. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL, THIS PAGE.

19. THE CONTRACTOR SHALL PROVIDE GUYING OR STAKING TO ALL TREES AND PALMS ACCORDING TO THE DETAILS SHOWN IN THIS SHEET. GUYING AND STAKING REQUIREMENTS WILL BE STRICTLY ENFORCED THROUGHOUT CONSTRUCTION AND THE WARRANTY PERIOD. ALL TREES AND PALMS WILL BE PLUMB VERTICAL AT TIME OF INSPECTION. ALL GUYING OR STAKING SHALL BE REMOVED AFTER NINE MONTHS OR AT THE END OF HURRICANE SEASON, WHICHEVER IS GREATER.

20. THE CONTRACTOR SHALL PROVIDE APPROVED MULCH TO ALL TREES, SHRUBS AND PLANT BEDS. CONTRACTOR SHALL INSTALL MULCH AT A DEPTH OF 3", MIN., AND MAINTAIN A 48" DIAMETER RING AROUND FREE STANDING TREES. ALL TREES SHALL HAVE A 6" MIDE RING CLEAR OF MULCH AROUND THE TREE TRUNK. <u>DO NOT MULCH ANNUAL FLOWER BEDS.</u> APPROVED MULCH WILL BE NON-CYPRESS, STERILIZED NATURAL CELLULOSE FRAGMENTS AS RECOMMENDED BY SFWMD XERISCAPE PLANT GUIDE II AND WHICH COMPLIES WITH ALL APPLICABLE LAND DEVELOPMENT, ZONING AND BUILDING CODES.

18. THE CONTRACTOR WILL PROVIDE SCREEN HEDGE MATERIALS AT ALL GROUND MOUNTED, FREE-STANDING UTILITY EQUIPMENT OR ENCLOSURES SUCH AS TRANSFORMERS, AIR CONDITIONING COMPRESSORS, BACKFLOW PREVENTERS AND OTHER MECHANICAL EQUIPMENT NOT DETERMINED PRIOR TO SITE PLAN APPROVAL SCREEN PLANT MATERIAL WILL BE LOCATED AT ALL NON-ACCESSIBLE PORTION OF SAID EQUIPMENT AND WILL BE EQUAL TO THE HEIGHT OF SUCH ELEMENTS (REFER TO GROUND MOUNTED EQUIPMENT SCREENING DETAIL). INSTALLATION SHALL BE PERFORMED PRIOR TO INSPECTION BY THE PERMITTING AGENCY. THE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT FOR APPROPRIATE PLANT SPECIES, SIZE AND QUANTITY OF ALL SCREENING SHRUBS. THE CONTRACTOR SHALL SUBMIT A R.C.O. (REQUEST FOR CHANGE ORDER) FOR ALL ADDITIONAL REQUIRED SHRUBS TO SCREEN GROUND MOUNTED EQUIPMENT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR CONSENT AND TO THE CITY FOR APPROVAL.

21. THE CONTRACTOR WILL, WITH ALL QUOTATIONS OR PROPOSAL/AGREEMENTS, PROVIDE A BINDING LETTER AND WRITTEN REPLACEMENT WARRANTY FOR ALL INSTALLED PLANT MATERIAL AFTER FINAL INSPECTION AND ACCEPTANCE BY THE OWNER. WARRANTY SHALL BE FOR 1 YEAR FOR ALL TREES AND PALMS, 120 DAYS FOR SHRUBS. WHERE INCREMENTAL COMPLETION CERTIFICATES OR TCS'S ARE ISSUED, CONTRACTOR MAY PETITION OWNER & AUTHORITY TO ACCEPT WORK IN CORRESPONDING INCREMENTAL SECTIONS. ALL PLANT MATERIAL SHALL NOT BE BOUND UNDER WARRANTY SHOULD IT BE CONFIRMED THAT DAMAGE OR DEATH TO PLANT MATERIAL BE

22. THE CONTRACTOR WILL PROVIDE A WRITTEN AGREEMENT TO COVER THE WARRANTY PERIOD AT TIME OF THE COMPLETION, INSPECTION AND PRIOR TO FINAL ACCEPTANCE. CONTRACTOR SHALL ALSO DEFINE INSPECTION DATES AND TIMES THROUGHOUT THE WARRANTY PERIOD TO MONITOR PLANTINGS UNDER WARRANTY. MAINTENANCE AGREEMENT WORK SHALL BE PERFORMED BY A QUALIFIED LANDSCAPE/IRRIGATION CONTRACTOR.

23. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY OF OBTAINING FROM GROWERS STATEWIDE, AND INTERSTATE, SPECIFIED PLANT MATERIALS IN ADVANCE OF RELEASING SITE TO LANDSCAPE PROFESSIONAL. AWARD OF THE CONTRACT IS BASED ON THE CONTRACTOR PROVIDING THE MATERIALS AT BID PRICE. CONTRACTOR WILL PROVIDE OFF-SITE INTERIM NURSERY FACILITIES FOR RECEIVING, MAINTAINING AND GROWING PLANT MATERIALS AT HIS OWN COST, WHEN SPECIA CONDITIONS EXIST OR OTHER ARRANGEMENTS MUST BE MADE IN ORDER TO SUPPLY SPECIFIED PLANT MATERIALS. ONLY REGIONAL (TRI-COUNTY) AGRICULTURAL DAMAGE AS DETERMINED BY FLORIDA D.O.A. AND/OR THE LOCAL COOPERATIVE EXTENSION SERVICE IN WRITING WILL BE CONSIDERED BY AUTHORITY. IN THIS CASE, THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING AND OBTAINING WRITTEN MODIFICATION FROM THE LANDSCAPE ARCHITECT AND THE PERMITTING JURISDICTION FOR

24. THE CONTRACTOR ACCEPTS THE LANDSCAPE PLAN, PLANT LIST, QUANTITIES AND SPECIFICATIONS CONTAINED HEREIN AS REQUIRED FOR SITE PLAN APPROVAL, ZONING AND LANDSCAPE PERMITTING. FINAL ARCHITECTURE, ENGINEERING IN PLANS AND UTILITY PROVIDERS MAY CREATE CONFLICTS AND OCCURANCE OF DISCREPANCIES BETWEEN PLANT LOCATIONS, COUNTS ON PLAN, AND THE LIST. BIDDERS AND CONTRACTORS SHALL REPORT IN WRITING ANY AND ALL DESIGN CONFLICTS TO THE LANDSCAPE ARCHITECT FOR RESOLUTION, AND AS REQUIRED BY CODE.

SIGNATURE OF CONTRACTOR/BIDDER

COMPANY NAME, ADDRESS & PHONE

CONTRACTOR AND/OR LANDSCAPE & IRRIGATION PROFESSIONAL MUST HAVE THIS SIGNED DRAWING IN THE BUILDING PERMIT SET OF PLANS AND THE JOB SITE SET OF PLANS AT ALL TIMES.

C.T.

(clear

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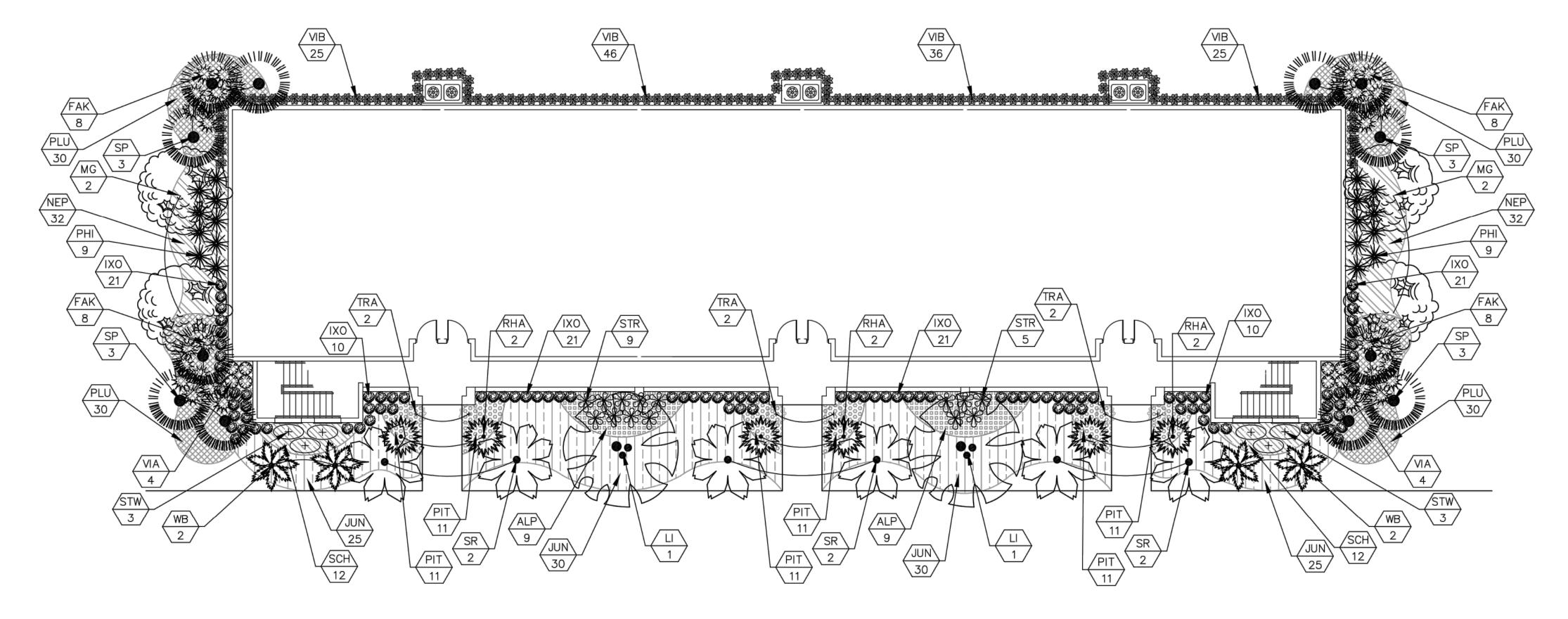
PLANTING HOLE

DEPTH VARIES

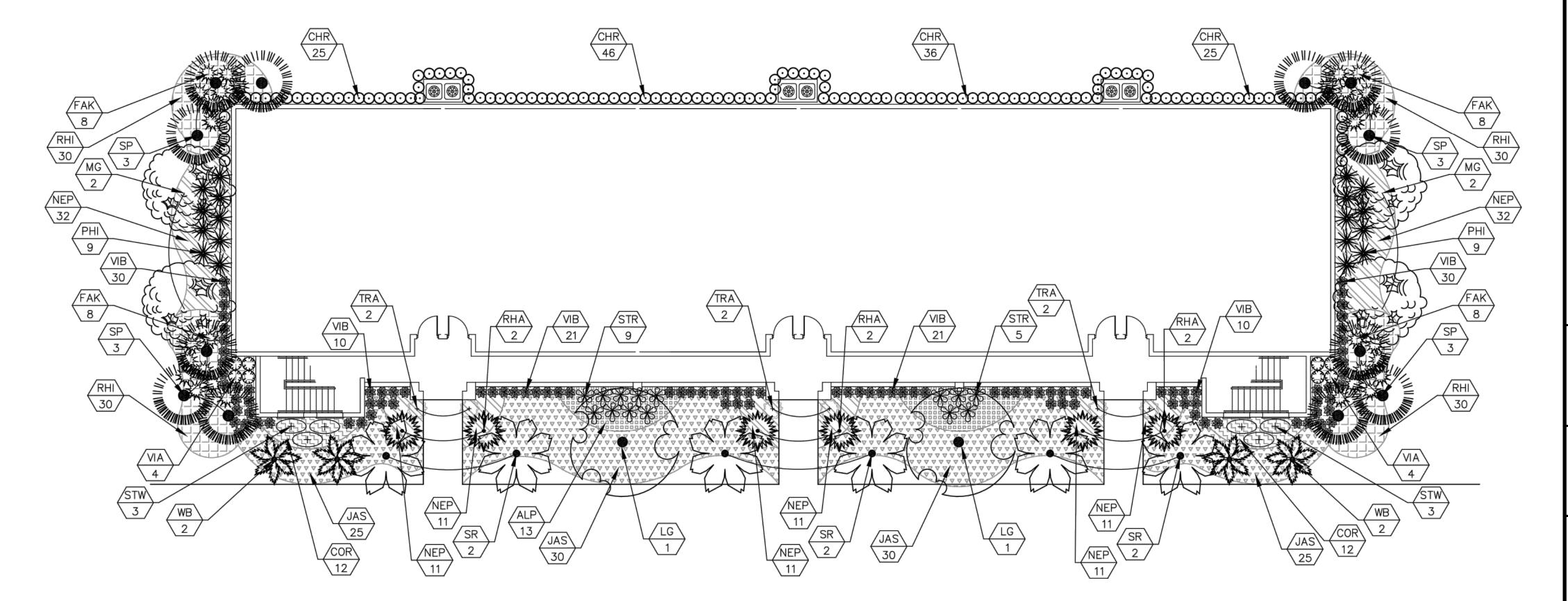
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	Sym	Kev	Qty.	Crt.	Scientific\Common Name	Ht.	Spr.	Remarks
H	CM2				QUEEN PALM		~ 1~.,	12' GW. MATCHED
	<i>ک</i> نیخ	SR	6	1:1	SYAGRUS ROMANZOFFIANA	12' GW		FULL HEAVY HEADS NO SCARRED TRUNKS
Palms	**	WB	4	1:1	FOXTAIL PALM WODYETIA BIFURCATA	6' GW		6' GREY WOOD, MATCHING HEADS MIN. 9 FRONDS, NO SCARRED TRUNKS
es and		SP	12	3:1	SABAL PALM SABAL PALMETTO 'W/BOOTS'	8'-10'		VARIED HEIGHTS, BOOTED TRUNKS MINIMUM 8/ CT. TRUNKS WITH 4 STAGGERED FULL HEADS
Trees	KAN KAN	LI	2	1:1	CREPE MYRTLE LAGERSTROEMIA INDICA	10'	5'	MULTI-TRUNK STANDARD, 3 TRUNKS MINIMUM MIN. 4' CT., FULL MATCHED
		MG	4	1:1	'LITTLE GEM' MAGNOLIA MAGNOLIA GRANDIFLORA 'LITTLE GEM'	12'	5'	SINGLE STRAIGHT TRUNK, 2.5" D.B.H. MIN. 5' CT.
	2.8	LG	2		WAX LIGUSTRUM LIGUSTRUM LUCIDUM	8'	5'	MULTI-TRUNK STANDARD 5 TRUNKS MINIMUM MIN. 4' CT., FULL, MATCHED
	Sym	Key	Qty.		Scientific\Common Name	Ht.	Spr.	Remarks
	+	STW	6		WHITE BIRD OF PARADISE STRELITZIA NICOLAI	36"	36"	7 STEMS MIN. MATCHED 7 GALLON
Accents	*	STR	14		DWARF BIRD OF PARADISE STRELITZIA REGINAE	48"	48"	7 GALLON, FULL MIN. 6-8 FRONDS
Acce	AMMA SAMA	RHA	6		LADY PALM RHAPIS EXCELSA	48"	36"	7 GALLON, FULL TO BASE MATCHED
		ALP	18		VARIEGATED SHELL GINGER ALPINIA ZERUMBET 'VARIEGATA'	18"	24"	FULL TO BASE MIN. 3 GALLON, 36" O.C.
		COR	24		HAWAIIAN TI PLANT CORDYLINE TERMINALIS 'BOLERO'	36"	24"	FULL 5 STEMS MIN. 3 GALLON
	Sym Key Qty. Scientific\Common Name				Scientific\Common Name	Ht.	Spr.	Remarks
ing	0	VIA	. 8		AWABUKI VIBURNUM VIBURNUM ODORATISSIMUM 'AWABUKI'		30"	FULL TO BASE 3 GALLON, 36" O.C.
d Hedging	*	PHI	18		PHILODENDRON PHILODENDRON SELLOUM	42"	36"	FULL TO BASE MIN. 7 GALLON, 48" O.C.
Shrubs and	0	IXO	104		IXORA IXORA COCCINEA 'JUNGLE FLAME'	24"	24"	FULL TO BASE 3 GALLON, 24" O.C.
Sh	*	VIB	132		SANDANKWA VIBURNUM VIBURNUM SUSPENSUM	24"	24"	FULL TO BASE 3 GALLON, 24" O.C.
	菾	FAK	32		FAKAHATCHEE GRASS TRIPSACUM DACTYLOIDES	24"	24"	FULL TO BASE, MATCHED 3 GALLON, 36" O.C.
	0	CHR	132		COCOPLUM CHRYSOBALANUS ICACO	24"	24"	FULL TO BASE 3 GALLON, 24" O.C.
	Sym	Key	Qty.		Scientific\Common Name	Ht.	Spr.	Remarks
		PLU	120		PLUMBAGO PLUMBAGO AURICULATA 'IMPERIAL BLUE'	18"	18"	FULL TO BASE 3 GALLON, 24" O.C.
ers	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	JAS	110		WAX JASMINE JASMINUM VOLUBILE	18"	18"	FULL 1 GALLON, 18" O.C.
Groundcovers		NEP	130		FISHTAIL FERN NEPHROLEPIS FALCATA 'FURCANS'	12"	12"	FULL 1 GALLON, 18" O.C.
Gro		SCH	24		VARIEGATED SCHEFFLERA SCHEFFLERA ARBORICOLA 'VARIEGATA'	24"	18"	FULL TO BASE MIN. 3 GALLON, 24" O.C.
		PIT	66		VARIEGATED TOBIRA PITTOSPRUM PITTOSPORUM TOBIRA 'VARIEGATA'	8"	8"	FULL TO BASE 1 GALLON, 18" O.C.
		RHI	120		INDIAN HAWTHORN 'WHITE' RHAPHIOLEPIS INDICA 'ALBA'	18"	18"	FULL TO BASE 3 GALLON, 24" O.C.
	5 cm	JUN	110		BLUE RUG JUNIPER JUNIPERUS HORIZONTALIS 'WILTONII'	12"	18"	FULL TO BASE 3 GALLON, 24" O.C.
	\odot	TRA	6		CONFEDERATE JASMINE TRACHELOSPERMUM JASMINOIDES			3 GALLON, FULL MIN. 5 RUNNERS, MIN. 30" LONG ATTACH TO FENCE / TRELLIS
	SOD	SOD	XX,XXX S.F.		ST. AUGUSTINE 'FLORATUM' STENOTAPHRUM SECUNDATUM			SOLID SOD STAGGER SEAMS FIELD VERIFY SOD AREAS



SUN EXPOSURE 12 UNITS



SHADE EXPOSURE

12 UNITS

