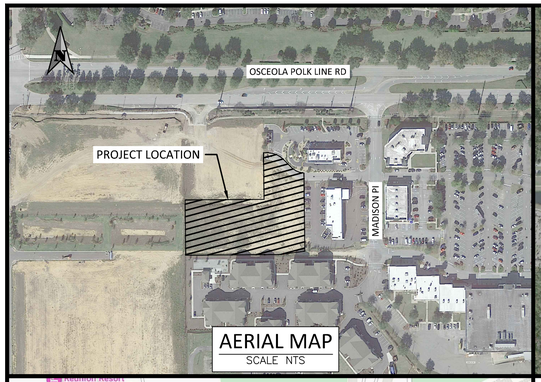
CONSTRUCTION DRAWINGS
SELF STORAGE
AT
OSCEOLA POLK LINE RD,
DAVENPORT, FL 33896
POLK COUNTY PARCEL #: 27-26-03-701058-000061

PROJECT DIRECTORY

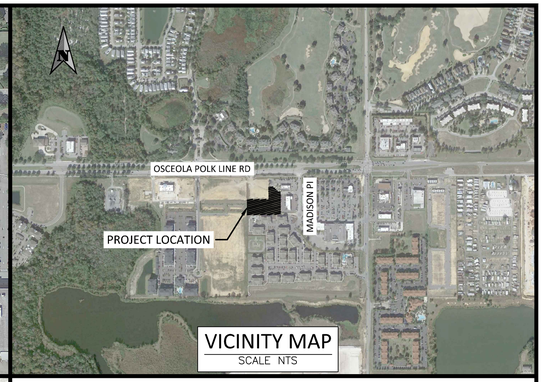
OWNER/DEVELOPER:	MARBLE CREEK, LLC 448 VIKING DRIVE, SUITE 220 VIRGINIA BEACH, VA 23452
CIVIL ENGINEER:	COMMON OAK ENGINEERING, LLC 4016 EDGEWATER DRIVE, ORLANDO, FL 32804 PHONE: (407) 951-5915
GEOTECH ENGINEER:	ECS FLORIDA, LLC 2815 DIRECTORS ROW, SUITE 500 ORLANDO, FL 32809 PHONE: (407) 859-8378
SURVEYOR:	SURVTECH SOLUTIONS, LNC 10220 U.S. HIGHWAY 92 EAST TAMPA, FL 33610 PHONE: (813) 621-4929
ARCHITECT:	FWH ARCHITECTS, INC. 3336 GRAND BLVD, SUITE 201 HOLIDAY, FL 34690 PHONE: (727) 815-3336

UTILITY PROVIDERS

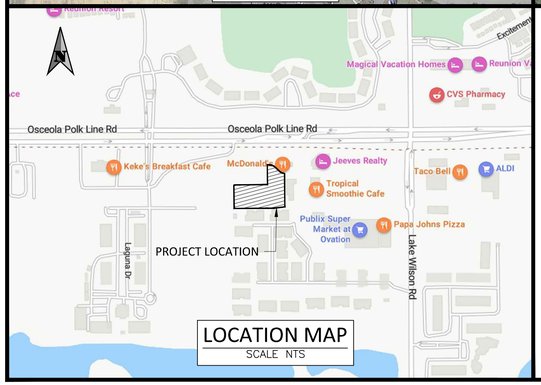
WATER & SEWER:	POLK COUNTY UTILITIES - NE REGION ANGELA LOUDERMILK PHONE: (863) 559-8267
ELECTRIC:	DUKE ENERGY USIC DISPATCH PHONE: (800) 778-9140 ORLANDO UTILITIES COMMISSION - LIGHTING USIC DISPATCH PHONE: (800) 778-9140 OUC-STREET LIGHTING - OSCEOLA TITO AQUINO PHONE: (813) 575-8205
STORM:	TBD
COMMUNICATIONS:	CENTURYLINK CABLE PROTECTION CENTER PHONE: (877) 366-8344 CHARTER COMMUNICATIONS HELENE HERNANDEZ PHONE: (407) 532-8092 OSCEOLA COUNTY TRAFFIC AARON TORRES PHONE: (407) 742-7801 SPECTRUM SUNSHINE STATE, LLC USIC DISPATCH OFFICE (CLS) PHONE: (800) 778-9140 SUMMIT BROADBAND JASON ZOFFINGER PHONE: (727) 403-4913
GAS:	FLORIDA PUBLIC UTILITIES GARY HARDY PHONE: (863) 224-3786



AERIAL MAP
SCALE NTS



VICINITY MAP
SCALE NTS



LOCATION MAP
SCALE NTS

LEGAL DESCRIPTION

LEGAL DESCRIPTION:

A PARCEL OF LAND BEING LOT 7 AND A PORTION OF LOT 6, OVATION REPLAT, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 162, PAGE 14, OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA, LYING AND BEING IN SECTION 3, TOWNSHIP 26 SOUTH, RANGE 27 EAST, POLK COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOTS 6 AND 7, OVATION REPLAT, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 162, PAGE 14, OF THE PUBLIC RECORDS OF POLK COUNTY, FLORIDA; LESS AND EXCEPT THE EAST 193.00 FEET OF LOT 6 OF SAID PLAT OF OVATION REPLAT.

THE ABOVE DESCRIPTION IS THE SAME AS THE ONE DESCRIBED PER TITLE COMMITMENT NO. 7222-6346428 ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, BEARING AN EFFECTIVE DATE OF FEBRUARY 14, 2023 AT 8:00 AM.

GENERAL REVISION LOG

NO:	DATE:	REVISION / ISSUE:	SHEETS REVISED:	BY:

PLAN SHEET INDEX

C1.0	COVER SHEET	C9.1	EROSION CONTROL DETAILS
C2.0	GENERAL NOTES	D1.0	DETAILS (SITE)
C2.1	GENERAL NOTES	D1.1	DETAILS (FDOT)
C2.2	GENERAL NOTES	D1.2	DETAILS (FDOT)
C3.0	DEMO PLAN	D2.0	DETAILS (GRADING)
C4.0	OVERALL SITE PLAN	D2.1	DETAILS (PROFILES)
C4.1	SITE PLAN	D3.0	DETAILS (UTILITY)
C4.2	ROUTING PLAN	D3.1	DETAILS (UTILITY)
C5.0	GRADING PLAN	D3.2	DETAILS (UTILITY)
C6.0	UTILITY PLAN		
C7.0	LANDSCAPE PLAN		SURVEY - 3 SHEETS
C7.1	IRRIGATION PLAN		
~~C8.0~~	~~NOT USED~~		
C9.0	EROSION CONTROL PLAN		

TOTAL SHEETS : 25

LEGEND:

(#)	:	NO. OF PARKING SPACES
# / CX.X	:	DETAIL NO. / SHEET
	:	HEAVY DUTY ASPHALT PAVEMENT
	:	PROPOSED CONCRETE SURFACE
W	:	WATER LINE
E	:	ELECTRIC LINE
SS	:	WASTEWATER LINE
FM	:	BURIED FORCE MAIN
TELE	:	TELEPHONE LINE
	:	FIRE HYDRANT
	:	VALVE
M	:	WATER METER
	:	BACKFLOW PREVENTER WITH CONCRETE PAD
75.40	:	TOP OF ASPHALT/CONCRETE SPOT ELEVATION
75.40 / 75.40	:	TOP OF CURB/SIDEWALK (ON TOP) / BOTTOM OF CURB (ON BOTTOM)
	:	FLOW ARROW
#	:	REVISION NUMBER
FDC	:	FIRE DEPARTMENT CONNECTION

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEERS SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
JEREMY R. ANDERSON, P.E.
P.E. NUMBER 71636

PROJECT # 223.072
DATE 03/03/2026
SHEET C1.0
SCALE N.T.S.
COVER SHEET

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. THESE NOTES SHALL APPLY TO ALL WORK IN THIS SET OF CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL SUBCONTRACTORS.
2. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION AND PRIOR TO PROVIDING A COST FOR CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER AND OWNER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER AND OWNER WRITTEN NOTIFICATION OF SAME AND ENGINEER AND OWNER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT INSPECTION AND CERTIFICATION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS/REQUIREMENTS.
4. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
5. NO EXTRA PAYMENT WILL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK AS DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSIONS IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT ON THE CONTRACT DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.
6. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
7. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR REVIW, PRIOR TO ORDERING. FAILURE TO SUBMIT FOR REVIEW BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE ENGINEER WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND COMMON OAK ENGINEERING HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. THE SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT COMMON OAK ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. COMMON OAK ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. COMMON OAK ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
9. NEITHER THE PROFESSIONAL ACTIVITIES OF OWNER'S ENGINEER, NOR THE PRESENCE OF AND/OR ITS RELATED ENTITIES AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. THE OWNERS ENGINEER AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
10. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME COMMON OAK ENGINEERING, AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH COMMON OAK ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS COMMON OAK ENGINEERING AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
11. ALL UTILITY SERVICE STUB-OUTS (WATER, SANITARY SEWER, ETC.) ARE TO BE INSTALLED TO WITHIN 5' OF BUILDING(S), UNLESS OTHERWISE NOTED ON PLANS.
12. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.
13. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES, AND FOR THE LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.
14. FLORIDA STATUTES REQUIRES THAT THE COMPANY PERFORMING THE EXCAVATION WORK SHALL NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) & A MAXIMUM OF FIVE (5) WORKING DAYS PRIOR TO EXCAVATING. DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS (IF ANY ARE PRESENT), AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY GAS SYSTEM PERSONNEL THEREFORE, THE COMPANY PERFORMING THE EXCAVATION WORK IS INSTRUCTED TO CALL SUNSHINE ONE CALL AT 1-800-432-4770 AT LEAST TWO (2) & A MAXIMUM OF FIVE (5) WORKING DAYS BEFORE DIGGING THE CONSTRUCTION AREA. NO MACHINE EXCAVATION SHALL BE PERFORMED WITHIN FIVE 5 FEET OF A GAS MAIN WITHOUT THE UTILITY OWNERS PRESENCE. WORKING DAYS EXCLUDE SATURDAYS, SUNDAYS & LEGAL HOLIDAYS. PERMIT MUST BE APPLIED FOR AT LEAST 5 BUSINESS DAYS PRIOR TO CONSTRUCTION DATE.
15. THE ENGINEER OF RECORD, DESIGN ENGINEER OR OWNER'S ENGINEER HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME. THE BELOW ARE SAFETY GUIDELINES AND ARE NOT ALL ENCOMPASSING:
    A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
    B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
    C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
    D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
    E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

    IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A RIGHT-OF-WAY UTILIZATION PERMIT "ROW PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITY FACILITIES. THIS PERMIT MUST BE OBTAINED BY A DULY LICENSED PLUMBING/UTILITY CONTRACTOR (OR CLASS A GENERAL CONTRACTOR) PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS THAT ARE ISSUED BY THE ENGINEER WILL BE SUBJECT TO THE APPROVAL CONDITIONS OF THIS PERMIT.
17. THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR REVISIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.
18. WHEN DETAILS ARE PROVIDED, CONTRACTOR SHALL CONSTRUCT JOB PER SPECIFIC DETAILS AND NOT BY SCALING FROM THESE PLANS.
19. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. COMMON OAK ENGINEERING, LLC IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.
20. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.
21. POLK COUNTY USSM REQUIRES ALL TESTING BE COMPLETED AFTER BASE IS IN PLACE.
22. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON-SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE ITS ACTIVITIES ACCORDINGLY. THE CONTRACTOR SHALL PLAN AND SCHEDULE THE SEQUENCE OF WORK IN ORDER TO PREVENT UNNECESSARY DELAYS OR COSTS ASSOCIATED WITH CRITICAL PATH ITEMS OF THE WORK. IT IS RECOMMENDED THAT A FINAL SCHEDULE SHALL BE GIVEN TO THE OWNER, THE OWNERS ENGINEER AND ARCHITECT. THE CONTRACTOR AND SUB-CONTRACTORS WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DELAYS RELATED TO POOR SCHEDULE PLANNING.
23. ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
24. ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUBCONTRACTORS, SHALL BE REPAIRED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
25. THE CONTRACTOR SHALL REMAIN SOLELY RESPONSIBLE FOR ANY DESIGN CHANGES WHICH HE MAY INCORPORATE INTO THE PLANS WITHOUT PRIOR WRITTEN CONSENT AND/OR APPROVAL FROM THE OWNER AND ENGINEER.
26. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT THE ENGINEER INCURS.
27. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND FURTHER, ENGINEER IS NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES
28. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF 'PROFESSIONAL OPINION' REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.
29. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
30. ALL UTILITY EASEMENTS SHALL BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) OR IF ALLOWED PRIOR TO CERTIFICATE OF OCCUPANCY. THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR.
31. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, MINIMUM "AS-BUILT" SCOPE HEREIN, CERTIFIED BY A REGISTERED LAND SURVEYOR. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O.) PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.
32. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED, IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED AS NECESSARY, BY SAME.
33. AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN UP OPERTATION FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL & EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESENT THE SITE CLEAN & IN GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.
34. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED & OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURES WRITTEN INSTRUCTIONS.
35. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
36. CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT LOCAL CODE REQUIREMENTS, AS WELL AS STATE BUILDING CODE AND THE DEPARTMENT OF JUSTICE ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME.

HISTORICAL RESOURCES PRESERVATION NOTES:

1. IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE PERMITTEE, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF THE STATE, DIVISION OF HISTORICAL RESOURCES, REVIEW AND COMPLIANCE SECTION AT (850) 245-6333 OR (800) 847-7278, AS WELL AS THE APPROPRIATE PERMITTING AGENCY OFFICE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.
2. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05FLORIDA STATUES.
3. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND/OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES OR THOSE LISTED AS THREATENED, ENDANGERED OR OF SPECIAL CONCERN IS DISCOVERED OR OBSERVED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE DEVELOPER, OWNER, OR AGENT THEREOF SHALL NOTIFY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), THE U.S. FISH AND WILDLIFE SERVICE (USFWS) AND CITY/COUNTY AUTHORITIES WITHIN 24 HOURS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.

DEMOLITION NOTES:

1. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR MUST REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
2. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH THE OWNER OR THE OWNERS ENGINEER, IN WRITING, AND RESPONDED TO BY THE OWNER OR THE OWNERS ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
3. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL DEVICES PER THE SWPPP CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS AND OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.
4. SITE DEMOLITION SHALL BE CONDUCTED IN SUCH A MANNER THAT OPERATIONS WILL HAVE MINIMAL INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREET, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION OVER SAID PROPERTY.
5. ALL EXISTING ITEMS TO REMAIN MUST BE PROTECTED IN SUCH A MANNER AS TO PREVENT DAMAGE.
6. ALL DAMAGED IMPROVEMENTS MUST BE RESTORED TO THEIR ORIGINAL CONDITION, OR BETTER, AS ACCEPTABLE TO THE PARTIES HAVING JURISDICTION.
7. STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES MUST BE PROTECTED FROM DAMAGED CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY DEMOLITION OPERATIONS.
8. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
9. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
10. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
11. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE, REFUSE, COMBUSTIBLE DEBRIS, ETC.) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
13. ALL FENCES, MAILBOXES, AND SIGNAGE DISTURBED BY CONSTRUCTION SHALL BE RELOCATED OR REPLACED AT NO ADDITIONAL COST TO OWNER.
14. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER PRIOR TO REMOVAL AND/OR RELOCATION.

CLEARING AND SITE PREPARATION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING. REFER TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN THE CONSTRUCTION DOCUMENT FOR ADDITIONAL REQUIREMENTS.
2. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NOT TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVELS ON SURROUNDING PROPERTIES WITHOUT WRITTEN PERMISSION FORM THE GOVERNING OWNER. THE CONTRACTOR SHALL BARE THE RESPONSIBILITY OF ALL COST RELATED TO REPAIRS/RECONSTRUCTION OF DAMAGED AREAS TO SURROUNDING PROPERTIES.
3. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINE AND REFERENCE POINTS FOR THE PROPOSED WORK AND VERIFY ALL DIMENSIONS RELATING TO THE INTERCONNECTIONS WITH EXISTING FEATURES. ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS SHALL BE REPORT TO THE ENGINEER.
5. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE

18. CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.
19. ALL STORM WATER SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. SEEDED AREAS WILL NOT BE ACCEPTED BY ENGINEER FOR CLEARANCE UNLESS A 1 INCH STAND HAS BEEN ESTABLISHED. IF THE ACCEPTABLE STAND IS NOT MEET THEN THE AREA DESIGNATED FOR SEED WILL BE SODED AT NO ADDITIONAL COST TO THE OWNER.
20. PRIOR TO INSPECTIONS AND TESTING ALL INSTALLED LINES AND STRUCTURES MUST BE CLEANED.

TESTING AND INSPECTION REQUIREMENTS (DRAINAGE):

1. THE STORM DRAINAGE PIPING AND STORM WATER POND SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
2. THE ENGINEER RESERVES THE RIGHT TO HAVE ALL DRY STORM WATER FEATURES TESTED BY AN APPROVED SOILS ENGINEER TO ENSURE INFILTRATION RATES ARE WITHIN DESIGN PARAMETERS REFER TO AS-BUILT REQUIREMENT HEREIN.
3. DENSITIES AT UTILITY AND STORM STRUCTURES (INLET/MANHOLES WITHIN ROADWAY TO 3' IN BACK OF CURB) SHALL BE 98% WITHIN PAVEMENT AREAS, AND A DENSITY OF 95% FOR STRUCTURES OUTSIDE PAVED AREAS PER AASHT0-180 (MODIFIED) IS REQUIRED.
4. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REINSPECTED BY THE OWNERS ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.
5. AS REQUIRED BY THE OWNER ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUNDWATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED BY SEALING OFF A LENGTH OF PIPE AND MEASURING THE DEPTH OF FLOW OVER A MEASURING WEIR, OR BY PUMPING THE INFILTRATED WATER INTO CONTAINERS FOR MEASUREMENT. TESTS SHALL BE CONDUCTED FOR A MINIMUM OF FOUR HOURS. INFILTRATION LEAKAGE SHALL NOT EXCEED 150 GALLONS PER 24 HOURS, PER INCH DIAMETER, PER MILE OF PIPE. WHEN THE GROUNDWATER LEVEL IS BELOW THE TOP OF THE PIPE, THE PIPE SHALL BE TESTED FOR LEAKAGE BY EXFILTRATION. EXFILTRATION LEAKAGE TEST SHALL CONSIST OF ISOLATING THE PARTICULAR SECTION, FILLING IT WITH WATER TO A POINT 4 FEET ABOVE THE TOP OF THE PIPE AT THE UPPER MANHOLE OR INLET, AND ALLOWING IT TO STAND FOR NO LESS THAN FOUR HOURS. THE SECTION SHALL THEN BE REFILLED WITH WATER UP TO THE ORIGINAL LEVEL AND AFTER TWO HOURS THE DROP IN WATER SURFACE SHALL BE MEASURED. THE COMPUTED LEAKAGE SHALL NOT EXCEED 150 GALLONS PER INCH DIAMETER, PER 24 HOURS, PER MILE OF PIPE.

GAS, ELECTRICAL, TELEPHONE, CABLE TV AND UTILITIES:

ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF GAS, ELECTRIC, TELEPHONE, FIBER OR CABLE TV UTILITIES, AND ANY INFORMATION PERTAINING TO THE DESIGN OR LOCATION OF THOSE UTILITIES IS SHOWN ON THE CIVIL DRAWINGS FOR GENERAL REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR ACTUAL LOCATIONS OF THESE UTILITIES AND FOR SPECIFIC NOTES AND INFORMATION.

6. MATERIALS INTERFERING WITH CONSTRUCTION AND ABANDONED UTILITY LINES, PIPES, STRUCTURES, AND OTHER SUBTERRANEAN OBJECTS SHALL BE REMOVED. ALL MATERIALS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL MANNER.
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND COORDINATING WITH THE APPROPRIATE UTILITY AUTHORITIES BEFORE CONSTRUCTION COMMENCES. CONTRACTOR MUST CALL SUNSHINE STATE ONE CALL (OR PRIVATE LOCATER) FOR UTILITY LOCATES 48 HOURS PRIOR TO CONSTRUCTION AT 1-800-432-4770. ANY UTILITY CONFLICTS SHALL BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO CONSTRUCTION.
8. INSTALL ALL REQUIRED CONDUIT TO THE PROPERTY PER LINE FOR APPLICABLE UTILITY SERVICE. COORDINATE WITH UTILITY PROVIDER, ELECTRICAL ENGINEER AND ARCHITECTURAL PLANS ON FINAL SIZE AND LOCATION OF CONDUIT.

WATER SYSTEM NOTES:

GOVERNING JURISDICTIONAL PUBLIC WORKS AND/OR UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER, RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. IF THERE IS A CONFLICT BETWEEN THOSE REQUIREMENTS AND THOSE LISTED BELOW THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.), SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS IN LIEU OF DIP, THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (I.E.., PIPES CENTERED ON THE CROSSING). WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.

   WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION:

   MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

   WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION:

   THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10-FT. HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES THEMSELVES.
2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS, WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELF, LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (i.e., STAGGERED JOINTS).
3. ALL DIP PIPE SHALL BE MW CLASS 50 OR PRESSURE CLASS 250. REFER TO NOTE #9 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.
4. ALL UTILITIES SHALL BE INSTALLED WITH COMPLIANCE TO GOVERNING JURISDICTION WATER DISTRICT STANDARD CONSTRUCTION DETAILS AND LAND DEVELOPMENT CODE.
5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36 INCHES OF COVER WHERE POSSIBLE. 48" MAXIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.
6. ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE MUNICIPALITY/AGENCY DEPARTMENT STANDARDS AND SPECIFICATIONS.
7. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA LISTED HEREIN THE WATER TESTING SECTION.
8. THRUST BLOCKS ARE NOT ALLOWED. MECHANICALLY RESTRAINED JOINTS SHALL BE USED.
9. ALL DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/A21.51. PIPE SHALL BE FURNISHED IN 18 OR 20 FOOT SECTIONS, PIPE THICKNESS SHALL BE CLASS 50, UNLESS OTHERWISE SPECIFIED.
10. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
11. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH FDEP SUBPARAGRAPH 62-555.320(21) (b) 3, F.A.C., USING BLUE AS A PREDOMINATE COLOR.
12. NO DEFLECTION OF MAINS IS ALLOWED. CHANGES IN DIRECTION SHALL BE ACCOMPLISHED WITH FITTINGS OR MINIMALLY AT JOINTS.
13. ALL ON-SITE FIRE HYDRANTS SHALL BE PAINTED WITH HIGH GRADE ENAMEL FEDERAL COLOR SHALL COMPLY WITH APPLICABLE UTILITY HAVING JURISDICTION, AND BE OSHA APPROVED, AND MUST BE LOCATED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB. OTHERWISE BOLLARDS WILL BE REQUIRED FOR PROTECTION. ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA STANDARDS C502-80 THEREOF. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S) TO ASSURE ADEQUATE FLUSHING AND DISINFECTION/CHLORINATION.
14. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING, OFF-SITE UTILITIES HYDROSTATIC TESTING TO BE WITNESSED BY A GOVERNING JURISDICTIONAL WATER DISTRICT DEPARTMENT INSPECTOR.
15. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND GOVERNING JURISDICTIONAL WATER DISTRICT UTILITIES OPERATION MANUAL.
16. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (DR 18) STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE SCHEDULE 80, PRESSURE CLASS 200 PSI.
17. ALL PVC WATER MAINS LESS THAN 4 INCHES SHALL BE IN ACCORDANCE WITH ASTM (SCHEDULE 40, 80, 120) OR ASTM 2241 SDR 21 (200 PSI). THREADED PIPE AND FITTINGS SHALL BE SCHEDULE 80 AND CONFORM TO ASTM D2464. UNTHREADED PIPE AND FITTINGS SHALL BE SCHEDULE 40 WITH SOLVENT-CEMENTED JOINTS. CEMENTED JOINTS AND FITTINGS SHALL COMPLY WITH ASTM D2466 AND D2855.
18. ALL PVC WATER MAINS 2" OR LESS SHALL BE SDR21 (200 PSI) UNLESS OTHERWISE NOTED.
19. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES ½" - 3" SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE DESIGNATION PE 4710, SDR 9 (OUTSIDE DIAMETER BASED DIMENSION RATIO). 250 PSI. PIPE SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE (RECLAIMED WATER). PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.
20. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW", ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
21. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320, FAC.
22. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, AND HYDRANTS. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

TESTING AND INSPECTION REQUIREMENTS (WATER):

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER, OR CITY INSPECTOR. PRESSURE TESTING OF WATER MAINS SHALL BE FOR A PERIOD OF FOUR (4) HOURS. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER AND APPLICABLE AGENCY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
2. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA: L = (S*D*P)/148,000

WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN POUNDS PER SQUARE INCH GAUGE (PSIG) ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

3. CONTRACTOR SHALL ARRANGE FOR CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF DOMESTIC AND FIRE LINE WATER SYSTEM(S). COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNER'S ENGINEER, IMMEDIATELY UPON COMPLETION OF THE WATER SYSTEM, FOR CERTIFICATION PURPOSES.
4. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS:
   A. CONDUCT PRESSURE AND LEAKAGE TESTING;
   B. PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651;
   C. DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS;
   D. FLUSH AFTER DISINFECTION.
   E. CONDUCT BACTERIOLOGICAL SAMPLING (TWO (2) CONSECUTIVE DAYS OF PASSING RESULTS ARE REQUIRED)
5. IF THE ABOVE TESTING REQUIREMENTS ARE IN CONFLICT WITH ANY LOCAL, STATE, OR FEDERAL AGENCY THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

GENERAL FIRE PROTECTION NOTES:

1. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
2. ALL FIRE PROTECTION SHALL MEET THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY AND N.F.P.A 24 WHICH REGULATES THE CONSTRUCTION AND TESTING OF SUCH LINES.
3. COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.
4. ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.021(16) SHALL BE C900 DR 14 AND HAVE A MINIMUM OF 36 INCHES OF COVER. THE FIRE LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE WITH NFPA 24-9-2.
5. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING TO ONE FOOT ABOVE FINISHED GRADE SHALL HOLD A CLASS I, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.021(5)
6. FIRE PROTECTION SYSTEM MAINS ON PRIVATE PROPERTY SHALL MEET THE REQUIREMENTS AND SHALL BEE INSTALLED PER N.F.P.A 24. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.
7. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED.
8. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH (2-1/2") HOSE CONNECTIONS AND ONE-FOUR AND A HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. THE HYDRANTS SHALL OPEN COUNTERCLOCKWISE.
9. ALL HYDRANTS SHALL BE PAINTED PER N.F.P.A 291 OR IN ANOTHER APPROVED MANNER WITH THE FINISH PAINT BEING TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.
10. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS, THERE SHALL BE NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.
11. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN; AND TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.
12. THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED.

TESTING AND INSPECTION REQUIREMENTS

(FIRE PROTECTION):

1. THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.
2. APPLY HYDROSTATIC TEST PRESSURE OF 200 PSI (FIRE MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.
3. APPLY LEAKAGE TEST PRESSURE OF 200 PSI (FIRE MAINS) MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST, THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

TRAFFIC CONTROL:

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN AND INSTALLED TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. IN GENERAL, ROADWAY AND DRIVEWAY LANE CLOSURES ARE PROHIBITED DURING CONSTRUCTION UNLESS SPECIFICALLY DETAILED ON THESE PLANS. IN THE EVENT IT IS DETERMINED THAT ROADWAY AND DRIVEWAY LANE CLOSURES WILL BE ALLOWED, THE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.
2. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL APPROPRIATE AGENCIES (PARTIAL LISTED BELOW) PRIOR TO ANY LANE CLOSURES ON AN ARTERIAL OR COLLECTOR ROADWAY:
   A. GOVERNING PUBLIC WORKS
   B. SHERIFF'S OFFICE
   C. TRANSIT AUTHORITY
   D. SCHOOL TRANSPORTATION
   E. EMS & FIRE ADMINISTRATION
3. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.
4. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
5. CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
6. ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.
7. THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.
8. WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS.
9. TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.
10. THE CONTRACTOR SHALL PROVIDE FLAGMAN AND OTHER TRAFFIC MEASURES NECESSARY TO PROTECT AND FACILITATE TRAFFIC MOVEMENT DURING CONSTRUCTION.
11. COMPLY WITH ALL LOAD RESTRICTIONS IN THE HAULING OF MATERIALS ON PUBLIC ROADS BEYOND THE LIMITS OF THE WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR THE DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL CONTROL HIS OPERATIONS AND THOSE OF HIS SUBCONTRACTORS, AND ALL SUPPLIERS TO ASSURE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED MOVEMENT OF VEHICULAR TRAFFIC AND LIMIT HIS OPERATIONS FOR THE SAFETY AND CONVENIENCE OF THE TRAVELING PUBLIC. UNDER ALL CIRCUMSTANCES, SAFETY SHALL BE THE MOST IMPORTANT CONSIDERATION.

SANITARY SYSTEM NOTES:

GOVERNING JURISDICTIONAL PUBLIC WORKS AND/OR UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER, RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. THE NOTES BELOW APPLY ONLY WHEN THEY EXCEED THE GOVERNING JURISDICTION PUBLIC WORK STANDARDS.

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE O

DEWATERING NOTES:

1. DURING THE EXCAVATION PROCESS IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE A CELL IN THE PROPOSED EXCAVATION AREA OF A POND OR IT CAN BE A BERMED AREA ABOVE GROUND OR AN ABOVE GOUND CHAMBER. ALL DEWATERING MUST BE RETAINED IN THE SEDIMENT AREA UNTIL THE WATER IS CLEAN SUCH THAT THERE WOULD BE NO TURBID DISCHARGE. AFTER THE WATER IN THE SEDIMENT BASIN IS CLEAN, THE WATER MAY BE RELEASED INTO THE ON-SITE POND PROVIDED THERE IS NO ADVERSE IMPACT TO THE EXISTING WATER QUALITY.
2. IF LIMITED AVAILABLE SPACE BECOMES A CONSTRAINT DURING CONSTRUCTION ACTIVITIES, AND A SETTLING POND CAN NOT BE CONSTRUCTED THEN WE RECOMMEND UTILIZING A BAKER TANK AND NON-CATIONIC FLOCCULENT TO REMAIN IN COMPLIANCE WITH THE GENERIC PERMIT. THE MANUFACTURER INFORMATION SHEET FOR THE FLOCCULENT SHOULD BE KEPT ONSITE ALONG WITH THE PERMIT, IF UTILIZED TO REDUCE TURBIDITY.
3. IF THE GROUDNWATER CAN NOT BE CONTAINED ON-SITE AND MUST BE DISCHARGED OFF-SITE, THE CONTRACTORS IS RESPONSIBLE FOR FILING FOR AN FDEP DEWATERING NOI, AND CONDUCTING ALL WATER TESTING REQUIREMENTS SET FORTH BY THE LOCAL JURISDICTION AND FDEP. IF THE PROJECT IS WITHIN PROXIMITY OF CONTAMINATION OR SUSPECTED CONTAMINATION THE GROUNDWATER WILL HAVE TO BE TESTED PER FDEP REQUIREMENTS AT A MINIMUM. NO POLLUTED WATERS SHALL BE DISCHARGED INTO STORM SYSTEM OR BODIES OF WATER. BEFORE DISCHARGE OF PRODUCED GROUND WATER TO ANY SURFACE WATER OF THE STATE FROM A NON-CONTAMINATED SITE, ANALYTICAL TESTS ON SAMPLES OF DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE CONTAMINATION. TEST RESULTS MUST MEET MINIMUM REQUIREMENTS SET BY FDEP [DOCUMENT 62-621.300(2) GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM NON-CONTAMINATED SITE ACTIVITY]. ANY DEWATERING DRAINAGE DISCHARGED INTO SANITARY SEWERS MUST BE APPROVED BY THE GOVERNING WASTEWATER DIVISION BEFORE DISCHARGING.
4. UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE ON-SITE DEWATERING BE DIRECTLY DISCHARGED OFF-SITE.
5. ALL GROUND WATER DISCHARGED OFF-SITE SHALL BE 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) OR LESS. TURBIDITY READINGS SHOULD BR COLLECTED TWICE DAILY, AT LEAST FOUR HOURS APART, TO CONFIRM TURBIDITY IS KEPT BELOW 29 NTUS. THE SAMPLES WILL BE COLLECTED AT THE DISCHARGE LOCATION. A LOG OF DAILY TURBIDITY MEASUREMENTS WILL BE KEPT ONSITE FOR THE DURATION OF DEWATERING ACTIVITIES ALONG WITH DAILY MEASUREMENTS OF THE FLOW RATE IN GALLONS PER DAY
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DEWATERING SYSTEM THAT PROVIDES PRETREATMENT OF EFFLUENT PRIOR TO DISCHARGE INTO ADJACENT SURFACE WATERS OR LOCAL SANITARY UTILITY SYSTEM, IF ALLOWED/REQUIRED. THE CONTRACTOR'S DEWATERING METHOD MUST MEET ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING THIS PRACTICE INCLUDING THE USE OF PERMITTED OUTFALL STRUCTURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND APPLY FOR A DEWATERING PERMIT WITH THE APPROPRIATE WATER MANAGEMENT DISTRICT AND LOCAL GOVERNING JURISDICTION.
7. THE DEWATERING SYSTEM SHALL BE DESIGNED, AND BE PROVIDED, USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS.MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.
8. CONTROL BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE GROUNDWATER OR ARTESIAN HEAD.
9. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS, DURING NORMAL PUMPING AND UPON DEVELOPMENT WELL(S), LEVEL OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5PPM.
10. THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE LOCAL WATER MANAGEMENT DISTRICT IF:
    A. 100,000 GPD TOTAL IN A 24 HOUR (1 DAY) PERIOD FROM DEWATERING
    B. 1,000,000 GPD PUMP CAPACITY IS REQUIRED
    C. GROUNDWATER WELL SIZE 8" IN DIAMETER OR GREATER
    D. CUMULATIVE OUTSIDE DIAMETER OR SURFACE WATER WITHDRAWAL PIPES IS 6" IN DIAMETER OR GREATER

THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH WATER MANAGEMENT DISTRICT. HOWEVER, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE LOCAL WATER MANAGEMENT AND GOVERNING JURISDICTION ON THE PERMIT REQUIREMENTS FOR DEWATERING. ALL PERMITS SHALL BE SUBMITTED A MINIMUM OF 21 DAYS PRIOR TO STARTING DEWATERING ACTIVITIES.

11. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOATATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
12. IF SILTY/CLAY SANDS, WHICH CAUSE THE WATER TO BECOME TURBID, ARE ENCOUNTERED THEN THE WATER SHALL BE TREATED WITH CHEMICAL ADDITIVES, SUCH AS ALUM, IN THE SEDIMENT BASIN IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE SEDIMENT TO SETTLE AND THE WATER TO BECOME LESS TURBID. IF TURBID WATER IS ENCOUNTERED DURING THE EXCAVATION OF THE PONDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY TO DETERMINE THE COURSE OF ACTION THAT IS APPROPRIATE TO ELIMINATE THE TURBIDITY AND ALLOW DISCHARGE THAT MEETS WATER QUALITY STANDARDS.
13. THE EXCAVATION PROCESS SHALL BE SEQUENCED IN SUCH A MANNER SUCH THAT THE SEDIMENT BASIN WILL BE AVAILABLE AT ALL TIMES. THE SEDIMENT BASIN CAN BE RELOCATED AS NECESSARY SUBJECT TO THE WATER WITHIN THE SEDIMENT BASIN BEING NON-TURBID AND ACCEPTABLE FOR DISCHARGE.
14. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM SITE INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

GENERAL ADA GUIDELINES FOR SITE CONSTRUCTION:

CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT STATE & LOCAL BUILDING CODE, THE DEPARTMENT OF JUSTICE ADA STANDARDS, REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FDOT OR 2.0%) IN ANY DIRECTION. THIS INCLUDES RUNNING SLOPE AND CROSS SLOPE.
2. RAMPS - SLOPES EXCEEDING 1:20 (5%) BUT NO MORE THAN 1:12 (8.3%) CONSTITUTE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, AND LANDINGS). NO RAMP SHALL EXCEED A 1:12 (8.3%) RUNNING SLOPE OR 1:50 (2%) CROSS SLOPE. RAMPS EXCEEDING SIX FEET IN LENGTH REQUIRE A HANDRAIL THAT CONFORMS TO ADA STANDARDS. A RAMP MAY NOT RISE MORE THAN 2.5 FEET WITHOUT A LANDING.
3. LANDINGS - MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (1/4" PRT FDOT OR 2.0%) IN ANY DIRECTION. THE LANDING SHOULD BE AS WIDE AS THE PROPOSED RAMP, MIN 36" WIDE, AND BE 60" LONG. IN MOST SITE CASES LANDINGS SHOULD BE 5 FEET BY 5 FEET.
4. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). IF THE PATH OF TRAVEL GOES TO A PUBLIC RIGHT-OF WAY, IT IS PREFERRED THAT THE ROUTE BE A MINIMUM OF 60 INCHES. THE SLOPE SHOULD BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND MUST NOT EXCEED 1:50 (¼" PER FDOT OR 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), THE ADA RAMP CRITERIA MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND 'LEVEL' LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:50 (1/4" PER FDOT OR 2.0%) FOR POSITIVE DRAINAGE.
5. CROSS-WALKS - THE PATH OF TRAVEL STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 1:50 (2%) CROSS SLOPE IS MET IN THE CROSS WALK.
6. DOORWAYS - MUST HAVE A 'LEVEL' LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FDOT OR 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY FDOT.)
7. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
8. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS. THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-CONFORMING CONCRETE.

IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY REQUIREMENTS LISTED ABOVE OR OTHER NON-STATED ADA REQUIREMENT THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NONCOMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.

PAVING AND GRADING NOTES:

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS OR AS DEFINED BY CURRENT FDOT SPECIFICATIONS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY (ECS FLORIDA, LLC) OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES UNLESS OTHERWISE NOTED.
5. FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.
6. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.
7. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
8. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE-GRADER OPERATIONS.
9. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
10. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR REVIEW/APPROVAL.
11. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER PLACED CONCRETE, ETC.).
12. SEAL CONCRETE PER ASTM C309 OR ASTM C1315 (TYPE II) PRIOR TO SAW CUTTING CONTROL JOINTS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL EXISTING MANHOLE AND INLET COVERS, VALVE BOXES, BLOW-OFF RISERS, ETC. TO PROPOSED ELEVATIONS, AS REQUIRED, WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT.
14. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS, AND/OR LOCAL GOVERNING JURISDICTION.
15. THE CONTRACTOR WILL STABILIZE, BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS (REFER TO PLANS), ANY AND ALL DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER AND OWNER'S ENGINEER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.
16. ELEVATIONS REFER TO NGVD29 VERTICAL DATUM.
17. GRADING SHOWN ON THESE PLANS IS PROVIDED TO CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
18. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

TESTING AND INSPECTION REQUIREMENTS (PAVING/GRADING):

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH SITE SPECIFIC GEOTECHNICAL REPORT FOR THE SITE, AS WELL AS THE TESTING SCHEDULE REQUIRED BY FDOT AND THE AFFECTED MUNICIPALITY. THE MORE STRINGENT REQUIREMENTS SHALL APPLY. UPON COMPLETION OF WORK, THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
2. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.
3. THE OWNER'S ENGINEER WILL NOT BE RESPONSIBLE FOR SCHEDULING, COORDINATION OR EVALUATION OF THE SOILS TESTING AND CERTIFICATIONS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER/DEVELOPER TO MAKE THE NECESSARY ARRANGEMENTS DIRECTLY WITH THE SOILS TESTING LABORATORY/GEOTECHNICAL FIRM AND THE SITE CONTRACTOR.
4. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN ½" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

AS-BUILTS, RECORD DRAWINGS & CERTIFICATIONS:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A COPY OF THE MINIMUM REQUIREMENTS FOR AS-BUILT RECORD DRAWING ACCEPTANCE FOR THE AGENCY HAVING JURISDICTION (SUCH AS THE CITY OR COUNTY) AND/OR UTILITY SERVICE PROVIDER, FAMILIARIZE THEMSELVES WITH THESE REQUIREMENTS, AND PRODUCE AS-BUILT RECORD DRAWINGS THAT SUBSTANTIALLY COMPLY WITH OR EXCEED THESE REQUIREMENTS, INCLUDING ANY REQUIRED ELECTRONIC DATA SUBMITTALS.
2. AT LEAST 30 DAYS PRIOR TO ANTICIPATED COMPLETION OF SITE CONSTRUCTION, THE FINAL CERTIFICATION PROCESS SHALL BEGIN. THE CONTRACTOR SHALL PROVIDE DOCUMENTS AND INFORMATION IN A TIMELY MANNER TO ENGINEER, INCLUDING AND WITHOUT LIMITATIONS,
    A. SURVEYED "AS-BUILTS", MINIMUM AS-BUILT SURVEY SCOPE IS LISTED BELOW.
    B. COMPACTION AND DENSITY TEST RESULTS CERTIFIED BY OWNERS TESTING COMPANY.
    C. PRESSURE TESTING AND BACTERIOLOGICAL TESTING RESULTS AS REQUIRED FOR WATER DISTRIBUTION AND/OR WASTEWATER COLLECTION/TRANSMISSION SYSTEMS.
3. AS-BUILT DRAWINGS SHALL BE ACCURATELY RECORDED AND CERTIFIED BY A LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND SHALL MEET THE MINIMAL TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF SURVEYOR'S AND MAPPERS IN CHARTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 FLORIDA STATUTES.
4. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN AUTOCAD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE AUTOCAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS.
5. THE X, Y AND (Z) LOCATION BASED ON THE COORDINATE SYSTEM FLORIDA EAST ZONE STATE PLANE COORDINATE FEET NAD 83, OF ALL VALVES (CENTER OF PIPE), MANHOLES, INLETS, VALVE BOXES (GRADE), HYDRANTS (GRADE), BLOW OFFS (GRADE), SAMPLE POINTS (GRADE) AND METER BOXES (GRADE) ETC. SHALL BE CLEARLY SHOWN. ACCEPTABLE POSITION ACCURACY SHALL BE SUB-METER OR BETTER FOR COMPATIBILITY WITH GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT. THE VERTICAL DATUM USED SHALL BE NGVD29 UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS.
6. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - SITE IMPROVEMENTS:
        - ALL BUILDINGS AND OTHER IMPROVEMENTS WITH DESCRIPTIONS, DIMENSIONS, AND LOCATION.
        - PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS.
        - FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.
        - ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.
        - HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
        - WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
        - WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.
    - SANITARY SEWER:
        - TOP ELEVATION OF EACH MANHOLE FRAME AND COVER AND INVERTS OF EACH LINE ENTERING AND LEAVING EACH MANHOLE/STRUCTURE.
        - LENGTH OF EACH RUN OF MAIN BETWEEN MANHOLES (CENTER TO CENTER).
        - ACTUAL GRADE/SLOPE OF PIPE BETWEEN MANHOLES.
        - LOCATE ALL SERVICE WYES FROM DOWNSTREAM MANHOLE WITH DEPTH AT LOT LINE AND DISTANCE FROM THE MAIN LINE.
        - LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
    - STORM DRAINAGE:
        - TOP ELEVATION OF EACH MANHOLE FRAME AND COVER/GRATE AS WELL AS ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.) AND INVERT OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES AND ROCK ENVELOPES.
        - INVERTS OF ALL MITERED END SECTIONS.
        - ACTUAL GRADE/SLOPE OF PIPE BETWEEN THE STRUCTURES.
        - INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
        - STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
        - STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
    - WATER AND REUSE SYSTEMS AND FORCE MAINS:
        - ACTUAL LENGTHS OF PIPE BETWEEN BRANCHES AND VALVES IN THE RUN.
        - LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
        - LIST THE DEPTHS OF THE LINES AT ALL VALVES, FITTINGS AND FIRE HYDRANTS.
        - POTABLE WATER SHALL CLEARLY INDICATE COMPLIANCE TO MINIMUM SEPARATION DISTANCES OR REQUIRED PIPE UPGRADES.

PRIOR TO THE CIVIL ENGINEERING PUNCH LIST INSPECTION THE CONTRACTOR SHALL SEND THE ENGINEER AN AS-BUILT SURVEY. THE ENGINEER WILL REVIEW THE DRAWINGS FOR COMPLETENESS IN ACCORDANCE WITH THE REQUIREMENTS OF THESE NOTES WITHIN FIVE (5) FULL WORKING DAYS. FOR PRELIMINARY REVIEW, SUBMITTAL IN AUTOCAD AND PDF FORMAT IS SUFFICIENT. IF ANY DEFICIENCIES ARE NOTED, ONE COPY OF REDLINED AS-BUILTS WILL BE GIVEN TO THE GENERAL CONTRACTOR FOR REVISIONS TO BE MADE. REVISED AS-BUILTS WILL NEED TO BE FORWARDED TO THE OWNER'S ENGINEER BEFORE ANY CERTIFICATIONS WILL BE INITIATED.

7. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR KEEP A DAILY "AS-BUILT" SET OF DRAWINGS WHILE THE WORK BEING DONE IS VISIBLY EXPOSED ACCORDING TO THE CRITERIA OUTLINED HEREIN.
8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST AND/OR PERFORM ANY ACTION NECESSARY TO ENSURE THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
9. THE CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CERTIFY TO OWNER'S ENGINEER THAT ALL SITE, UTILITY, AND ROADWAY COMPACTION, BERM STABILITY, AND PAVEMENT CONSTRUCTION SPECIFICATIONS HAVE BEE

GRAPHIC SCALE

0 10 20

(IN FEET)

1 inch = 20 ft.

ELEVATIONS BASED ON NGVD29 VERTICAL DATUM CONVERSION:
NGVD29 - NAVD88 = 0.883'

LINE	BEARING	DISTANCE
L1	N 89°47'48" E	13.66'
L2	S 44°44'28" E	30.30'
L4	S 82°49'36" W	81.95
L5	S 89°37'14" W	42.43'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C1	71.45'	51.93'	S 66°49'28" E	50.79'	41°38'36"	27.17'
C4	60.00'	48.62'	S 63°56'13" E	47.30'	46°25'53"	25.74'

Parcel#: 27-26-03-701058-000021
PUBLIX SUPER MARKETS INC
PO Box 32018
Lakeland, FL 33802

LOT 2

D-1
RE: 133.69
IE: 128.39 (W)
IE: 128.39 (N) (24" RCP)
IE: 128.39 (E)

Polk County Utilities Easement
(Sanitary Sewer) per
OR 11461, Page 406

N 00°29'46" W 143.40' (F)(P)

Manhole-5
RE: 134.19
SEALED
(NO ACCESS)

PROPOSED DRIVEWAY

D-2
RE: 133.63
IE: 129.00 (NE)
IE: 128.36 (S) (24" RCP)

D-3
RE: 134.73
IE: 127.73 (W)
IE: 127.73 (N)
IE: 127.73 (E)
IE: 127.73 (S)

S-1
RE: 135.53
IE: 128.13 (N)
IE: 128.03 (E)

S-2
RE: 135.71
IE: 127.86 (S)
IE: 127.91 (W)

D-4
RE: 135.65
IE: 127.75 (N)
IE: 128.75 (S)

N 89°03'02" E 158.12' (P)

10' Drainage Easement per
OR Book 8183, Page 642

Parcel#: 27-26-03-701058-0000
SOUTHWEST HOLLY LLC
591 Silver Ln
Boca Raton, FL 33432-29

Access Easement (P)
Ingress/Egress Easement per
OR Book 8328, Page 1889

10' Distribution Easement
OR Book 2814, Page 75

N 89°37'14" E 242.00' (F)(P)

Polk County Utilities Easement recorded in Book 12101, Page 143
(Force Main Easement) per OR Book 12101, Page 143

TREE TO BE RELOCATED, SEE SHEET C7.0 LANDSCAPE PLAN

Parcel#: 27-26-03-701058-000061

Total Acreage
76164.24 Square Feet
1.749 Acres

LOT 7

VACANT

20' Sanitary Sewer
Easement (P)

UNUSED PORTION OF SANITARY SEWER EASEMENT TO BE VACATED

Parcel#: 27-26-03-701058-000061

S 00°32'34" E 240.64' (F)

LESS & EXCEPT
East 193.00'
of Lot 6 (D)

Remainder of
LOT 6

Cross Access Easemer
OR Book 10177, Page

Portion of
LOT 6

D-6
RE: 136.58
IE: 129.53 (N)
IE: 129.53 (W)

S-3
RE: 137.03
IE: 127.43 (N)
IE: 127.33 (E)

S 89°37'14" W 242.00' (F)(P)
S 89°37'14" W 284.43' (F)

S 82°49'36" W 275.09' (P)

Portion of Access Easement Vacated
per OR Book 10596, Page 1337

Two Story
Masonry Building

10' Utility Easement per
OR Book 7356, Page 1315

Dog Park

Retention Pond

Top of Bank

Toe of Slope

Dirt

Asphalt

Concrete "F" Curb

Concrete "D" Curb

Concrete "M" Curb

Concrete Sidewalk

Grass

6' Iron Rod Fence

4' Iron Rod Fence

5' Concrete Sidewalk

Edge of Pavement

Edge of Dirt Road

8" PVC

18" RCP

24" RCP

TRACT I
WATER MANAGEMENT AREA/COMMON AREA

NOTE: ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.

NOTICE TO GENERAL CONTRACTORS:
CONTRACTOR TO REFER/COORDINATE THE WORK SHOWN HERON WITH THE WORK SHOWN ON THE REMAINDER OF THESE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THIS AND OTHER PAGES IS FOUND, OR IF THE CONTRACTOR HAS ANY QUESTIONS OF ANY KIND, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING PRIOR TO THE PERFORMANCE OF ANY WORK.

NOTE: THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS.

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & SEAL
JEREMY R. ANDERSON
LICENSE NUMBER
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. No. 71636

PROJECT # 223.072

DATE 03/03/2026

SCALE 1" = 20'

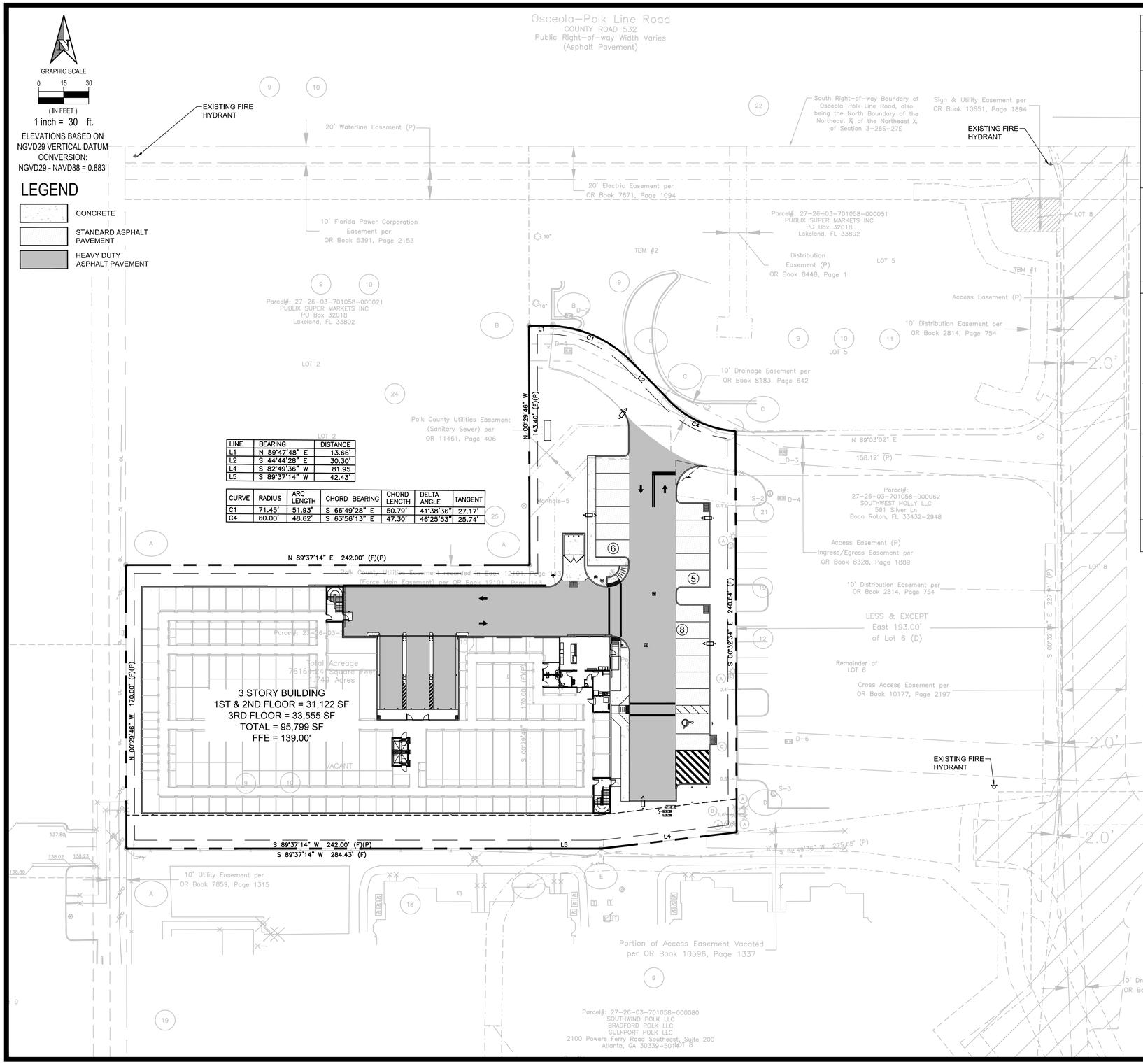
SHEET C3.0

DEMO PLAN

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



SITE DATA TABLE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THREE STORY SELF STORAGE BUILDING TOTALING 96,266 SF, ONE OFFICE, ON-SITE PARKING, AND STUB-OUT TO EXISTING OFF-SITE STORMWATER MANAGEMENT SYSTEM

LOCATION & LAND USE

TAX PARCEL #'S:	27-26-03-701058-000061
ZONING DISTRICT:	PUD 85-2 (TDSA & SAP-RONALD REAGAN PARKWAY(CENTRAL OVERLAY DISTRICT)
FUTURE LAND USE:	CACX - COMMUNITY ACTIVITY CENTER
ADJACENT ZONING / FLU:	
NORTH (FRONT):	CACX / PUD 85-2
EAST (SIDE) :	CACX / PUD 85-2
SOUTH (REAR) :	CACX / PUD 85-2
WEST (SIDE) :	CACX / PUD 85-2

AREAS

AREAS	PROPOSED (SF)	ACRES	PERCENT OF TOTAL PROPERTY AREA
LOT:	±76,164	±1.75	100%
TOTAL IMPERVIOUS:	±54,433	±1.25	±71.47%
BUILDING FOOTPRINT:	±33,555	±0.77	±44.06%
PAVEMENT, LOADING & SIDEWALKS:	±20,878	±0.48	±27.41%
TOTAL PERVIOUS AREA:	±21,731	±0.50	±28.53%

GROSS BUILDING AREA: ±95,799 SF | FLOOR AREA RATIO: 1.258

SETBACKS & BUFFERS

BUILDING SETBACKS:	REQUIRED / PERMITTED:	PROPOSED DISTANCE FROM PROPERTY LINE:
NORTH (FRONT):	5' (MIN)	14' (MIN)
EAST (SIDE) :	5' (MIN)	75.1' (MIN)
SOUTH (REAR) :	5' (MIN)	21.0' (MIN)
WEST (SIDE) :	5' (MIN)	10.4' (MIN)
LANDSCAPE BUFFERS:		
NORTH (FRONT):	0' (MIN)	N/A
EAST (SIDE) :	0' (MIN)	N/A
SOUTH (REAR) :	20' (MIN)	20'
WEST (SIDE) :	0' (MIN)	N/A

PARKING

PARKING REQUIRED: 1 SPACE PER 200 BAYS, PLUS ONE SPACE PER EMPLOYEE (2 EMPLOYEE)

PARKING CALCULATIONS:	850 BAYS / 200 =	4.25 REQUIRED STALL
REQUIRED PARKING:	4.25 + 2 =	7
PROPOSED PARKING STALLS:		18
PROPOSED ADA STALLS:		1
	TOTAL:	19 SPACES

FEMA

FLOOD ZONE: X | FLOOD MAP #12105C0125H | EFFECTIVE DECEMBER 22, 2016

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1–800–432–4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG... 1–800–432–4770 UTILITIES PROTECTION CENTER IT'S THE LAW

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

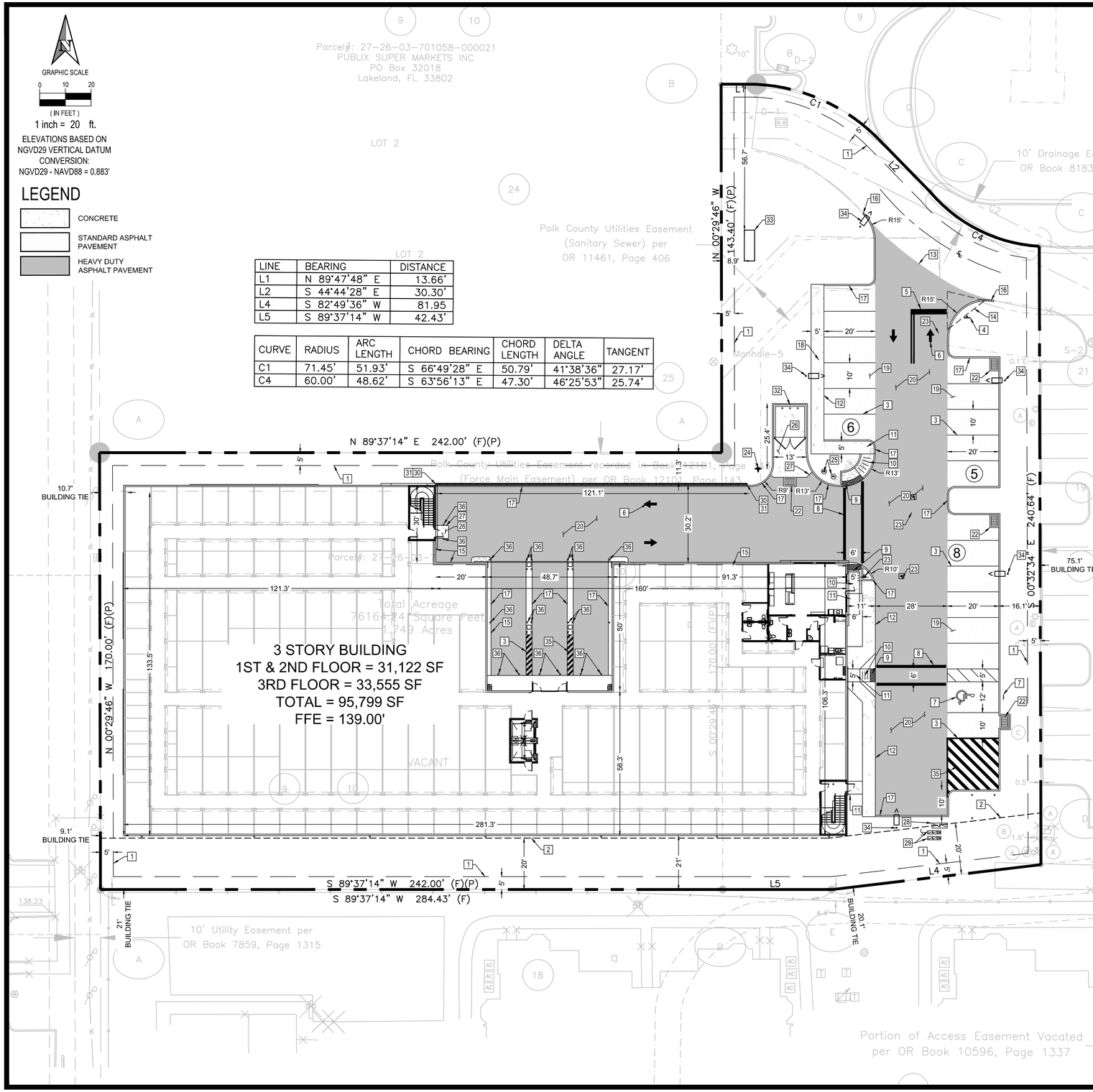
COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME AND SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY RONALD ANDERSON, P.E.
LICENSE NUMBER 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE 1" = 30'
SHEET C4.0
OVERALL SITE PLAN



LINE	BEARING	DISTANCE
L1	N 89°47'48" E	13.66'
L2	S 44°44'28" E	30.30'
L4	S 82°49'36" W	81.95
L5	S 89°37'14" W	42.43'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C1	71.45'	51.93'	S 66°49'28" E	50.79'	41°38'36"	27.17'
C4	60.00'	48.62'	S 63°56'13" E	47.30'	46°25'53"	25.74'

##	SITE PLAN NOTES
1	BUILDING SETBACK
2	LANDSCAPE BUFFER
3	4" WHITE PAINT STRIPING (TYP.)
4	STOP SIGN & POST, DETAIL: 4 / D1.0
5	24" WHITE PAINT STOP BAR PAVEMENT MARKING, DETAIL: 6 / D1.0
6	ON SITE DIRECTIONAL ARROW (TYP.), DETAIL: 6 / D1.0
7	HANDICAP ACCESSIBLE PARKING / SIGNAGE / MARKINGS, DETAIL: 1 / D1.0
8	ADA COMPLIANT CROSSWALK, DETAIL: 6 / D1.0 & (FDOT INDEX 711-001) / D1.1
9	DETECTABLE WARNING, DETAIL: 7 / D1.0
10	HANDICAP ACCESSIBLE RAMP, DETAIL: (FDOT INDEX 522-002) / D1.2
11	5' X 5' LANDING (MIN)
12	MONOLITHIC CURB & SIDEWALK (TYP.), DETAIL: 8 / D1.0
13	PROPOSED CURB/SIDEWALK/PAVEMENT TO TRANSITION SMOOTHLY TO EXISTING ADJACENT SURFACE, CONTRACTOR TO VERIFY CONNECTION, LOCATION AND ELEVATION OF EXISTING ADJACENT SURFACE.
14	15' CLEAR SIGHT TRIANGLE
15	PAVEMENT AT BUILDING, DETAIL: 11 / D1.0
16	VERTICAL CURB TAPER, DETAIL: 10 / D1.0
17	TYPE D CURB (TYP.), DETAIL: (FDOT INDEX 520-001) / D1.1
18	CONCRETE SIDEWALK, DETAIL: 12 / D1.0 & (FDOT INDEX 522-001) / D1.2
19	STANDARD ASPHALT PAVEMENT (TYP.), DETAIL: 3 / D1.0
20	HEAVY DUTY ASPHALT PAVEMENT (TYP.), DETAIL: 3 / D1.0
21	IRRIGATION CONNECTION, SEE SHEET C6.0 UTILITY PLAN
22	STORM DRAINAGE STRUCTURE (TYP.), SEE SHEET C5.0 GRADING PLAN
23	SANITARY SEWER CLEANOUT (TYP.), SEE SHEET C6.0 UTILITY PLAN
24	PROPOSED PRIVATE FIRE HYDRANT, SEE SHEET C6.0 UTILITY PLAN
25	PROPOSED FDC, SEE SHEET C6.0 UTILITY PLAN
26	CONCRETE PAVEMENT, DETAIL: 2 / D1.0
27	CONCRETE APRON, DETAIL: 5 / D1.0
28	DDCV ASSEMBLY, SEE SHEET C6.0 UTILITY PLAN
29	WATER CONNECTION / RPZ / METER, SEE SHEET C6.0 UTILITY PLAN
30	END OF ±121.1 LF CMU RETAINING WALL BY OTHERS
31	END OF ±121.1 LF CHAIN LINK FENCE MOUNTED ATOP RETAINING WALL
32	DUMPSTER ENCLOSURE, DETAIL: 9 / D1.0
33	PROPOSED SIGN
34	LIGHT POLE (TYP.), SEE THE PHOTOMETRIC PLANS
35	4" WHITE PAINT GORE STRIPING (TYP.)
36	PROPOSED BOLLARD, SEE ARCHITECTURAL PLAN

NOTES:

1. ALL ASPHALT DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. ALL RADII ARE 3' UNLESS OTHERWISE SPECIFIED
3. BUILDING SETBACKS ARE TO CONCRETE CORNER OF BUILDING
4. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS
5. CONTRACTOR SHALL FIELD VERIFY UTILITY POINT OF CONNECTIONS LOCATION, ELEVATION AND TYPE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FACILITIES
6. ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION
7. ALL IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO SOUTH (FRONT) PROPERTY LINE (BEARING S89°37'14"W) UNLESS OTHERWISE SHOWN.
8. THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS.

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG!
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW!

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO.	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME AND SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FL FLORIDA
REGISTERED PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. NUMBER: 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE 1" = 20'
SHEET C4.1
SITE PLAN

GRAPHIC SCALE

0 10 20

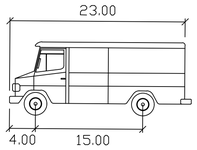
(IN FEET)

1 inch = 20 ft.

ELEVATIONS BASED ON NGVD29 VERTICAL DATUM CONVERSION:
NGVD29 - NAVD88 = 0.883'

LEGEND

CROSS ACCESS EASEMENT



DL-23

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	6.0
Steering Angle	: 40.4

3 STORY BUILDING
1ST & 2ND FLOOR = 31,122 SF
3RD FLOOR = 33,555 SF
TOTAL = 95,799 SF
FFE = 139.00'

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO.	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S SEAL
JEREMY R. ANDERSON
LICENSE NUMBER
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
FLORIDA LICENSE No. 71636

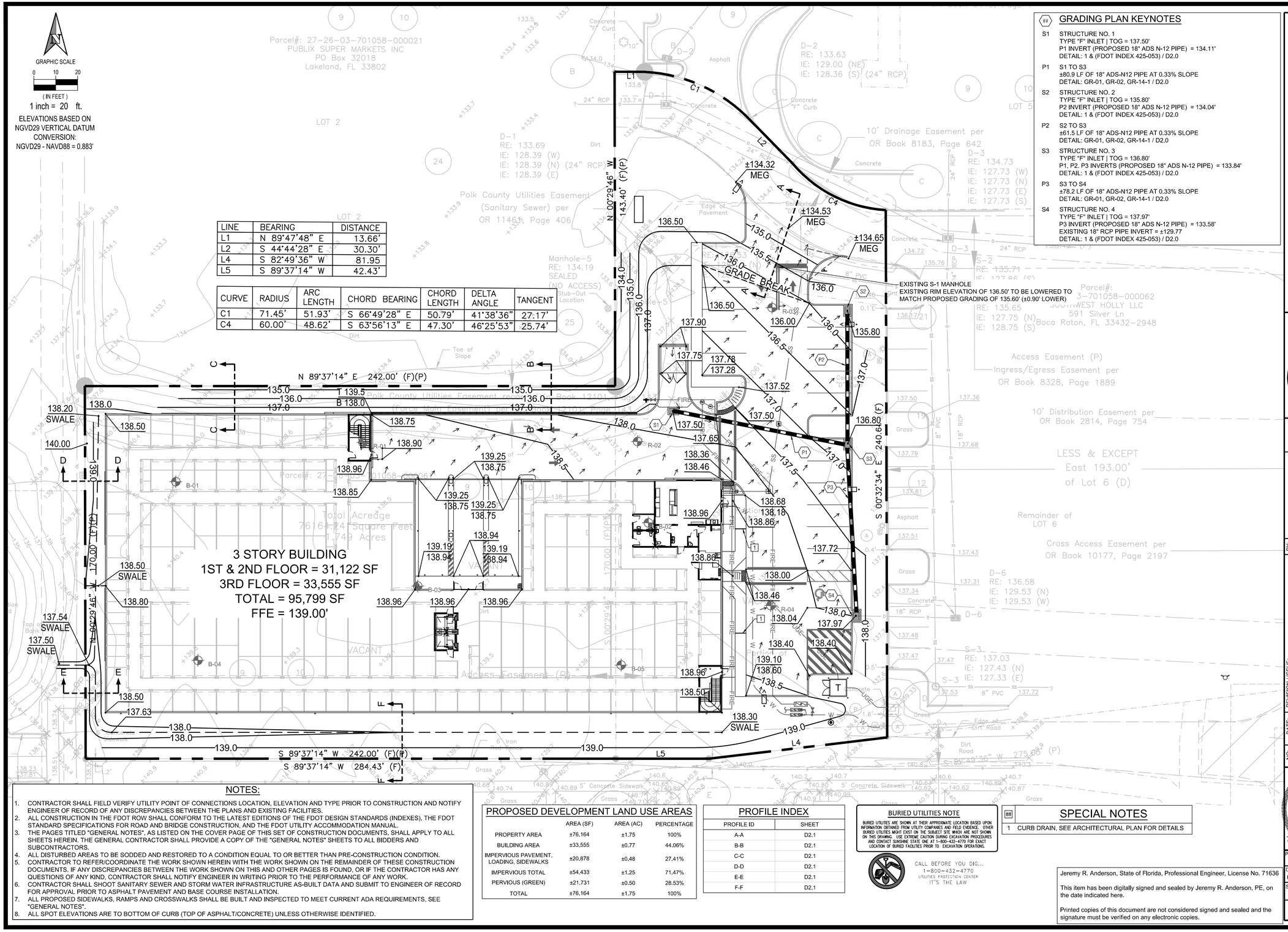
PROJECT # 223.072

DATE 03/03/2026

SCALE 1" = 20'

SHEET C4.2

ROUTING PLAN



GRADING PLAN KEYNOTES

- **S1** STRUCTURE NO. 1
  TYPE "F" INLET | TOG = 137.50'
  P1 INVERT (PROPOSED 18" ADS N-12 PIPE) = 134.11'
  DETAIL: 1 & (FDOT INDEX 425-053) / D2.0
- **P1** S1 TO S3
  ±80.9 LF OF 18" ADS-N12 PIPE AT 0.33% SLOPE
  DETAIL: GR-01, GR-02, GR-14-1 / D2.0
- **S2** STRUCTURE NO. 2
  TYPE "F" INLET | TOG = 135.80'
  P2 INVERT (PROPOSED 18" ADS N-12 PIPE) = 134.04'
  DETAIL: 1 & (FDOT INDEX 425-053) / D2.0
- **P2** S2 TO S3
  ±61.5 LF OF 18" ADS-N12 PIPE AT 0.33% SLOPE
  DETAIL: GR-01, GR-02, GR-14-1 / D2.0
- **S3** STRUCTURE NO. 3
  TYPE "F" INLET | TOG = 136.80'
  P1, P2. P3 INVERTS (PROPOSED 18" ADS N-12 PIPE) = 133.84'
  DETAIL: 1 & (FDOT INDEX 425-053) / D2.0
- **P3** S3 TO S4
  ±78.2 LF OF 18" ADS-N12 PIPE AT 0.33% SLOPE
  DETAIL: GR-01, GR-02, GR-14-1 / D2.0
- **S4** STRUCTURE NO. 4
  TYPE "F" INLET | TOG = 137.97'
  P3 INVERT (PROPOSED 18" ADS N-12 PIPE) = 133.58'
  EXISTING 18" RCP PIPE INVERT = ±129.77
  DETAIL: 1 & (FDOT INDEX 425-053) / D2.0

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY UTILITY POINT OF CONNECTIONS LOCATION, ELEVATION AND TYPE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FACILITIES.
2. ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDEXES), THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
3. THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS.
4. ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.
5. CONTRACTOR TO REFER/COORDINATE THE WORK SHOWN HEREIN WITH THE WORK SHOWN ON THE REMAINDER OF THESE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THIS AND OTHER PAGES IS FOUND, OR IF THE CONTRACTOR HAS ANY QUESTIONS OF ANY KIND, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING PRIOR TO THE PERFORMANCE OF ANY WORK.
6. CONTRACTOR SHALL SHOOT SANITARY SEWER AND STORM WATER INFRASTRUCTURE AS-BUILT DATA AND SUBMIT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO ASPHALT PAVEMENT AND BASE COURSE INSTALLATION.
7. ALL PROPOSED SIDEWALKS, RAMPS AND CROSSWALKS SHALL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS, SEE "GENERAL NOTES".
8. ALL SPOT ELEVATIONS ARE TO BOTTOM OF CURB (TOP OF ASPHALT/CONCRETE) UNLESS OTHERWISE IDENTIFIED.

PROPOSED DEVELOPMENT LAND USE AREAS

	AREA (SF)	AREA (AC)	PERCENTAGE
PROPERTY AREA	±76,164	±1.75	100%
BUILDING AREA	±33,555	±0.77	44.06%
IMPERVIOUS PAVEMENT, LOADING, SIDEWALKS	±20,878	±0.48	27.41%
IMPERVIOUS TOTAL	±54,433	±1.25	71.47%
PERVIOUS (GREEN)	±21,731	±0.50	28.53%
TOTAL	±76,164	±1.75	100%

PROFILE INDEX

PROFILE ID	SHEET
A-A	D2.1
B-B	D2.1
C-C	D2.1
D-D	D2.1
E-E	D2.1
F-F	D2.1

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW

SPECIAL NOTES

1	CURB DRAIN, SEE ARCHITECTURAL PLAN FOR DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

BY:
REVISION ISSUE:
DATE:
NO:

ENGINEER'S NAME & SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
JEREMY R. ANDERSON, P.E.
P.E. NUMBER: 71636

PROJECT # 223.072
DATE 03/03/2026
SHEET C5.0
SCALE 1" = 20'
GRADING PLAN

NEEDED FIRE FLOW CALCULATION

BUILDING	BUILDING CONSTRUCTION TYPE	BUILDING SQUARE FOOTAGE	REQUIRED FIRE FLOW* (GPM)	REQUIRED FIRE FLOW DURATION (HOURS)	SPRINKLER PROTECTION	NEEDED FIRE FLOW AFTER 75% REDUCTION FOR SPRINKLER (GPM)	NEEDED FIRE FLOW (GPM)
3 STORY	II(000)	96,200	6,500	4	YES	1,625	1,625

*REQUIRED FIRE FLOW VALUES TAKEN FROM NFPA 1 TABLE 18.4.4.2.1

GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 20 ft.

ELEVATIONS BASED ON NGVD29 VERTICAL DATUM CONVERSION:
NGVD29 - NAVD88 = 0.883'

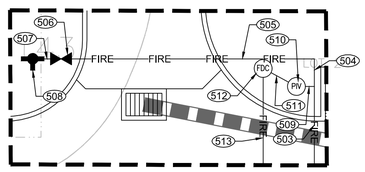
LEGEND

PROPOSED 10' UTILITY EASEMENT - WATER

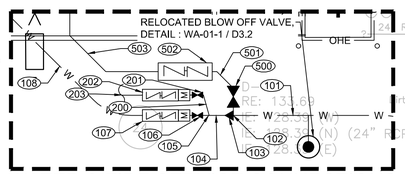
BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

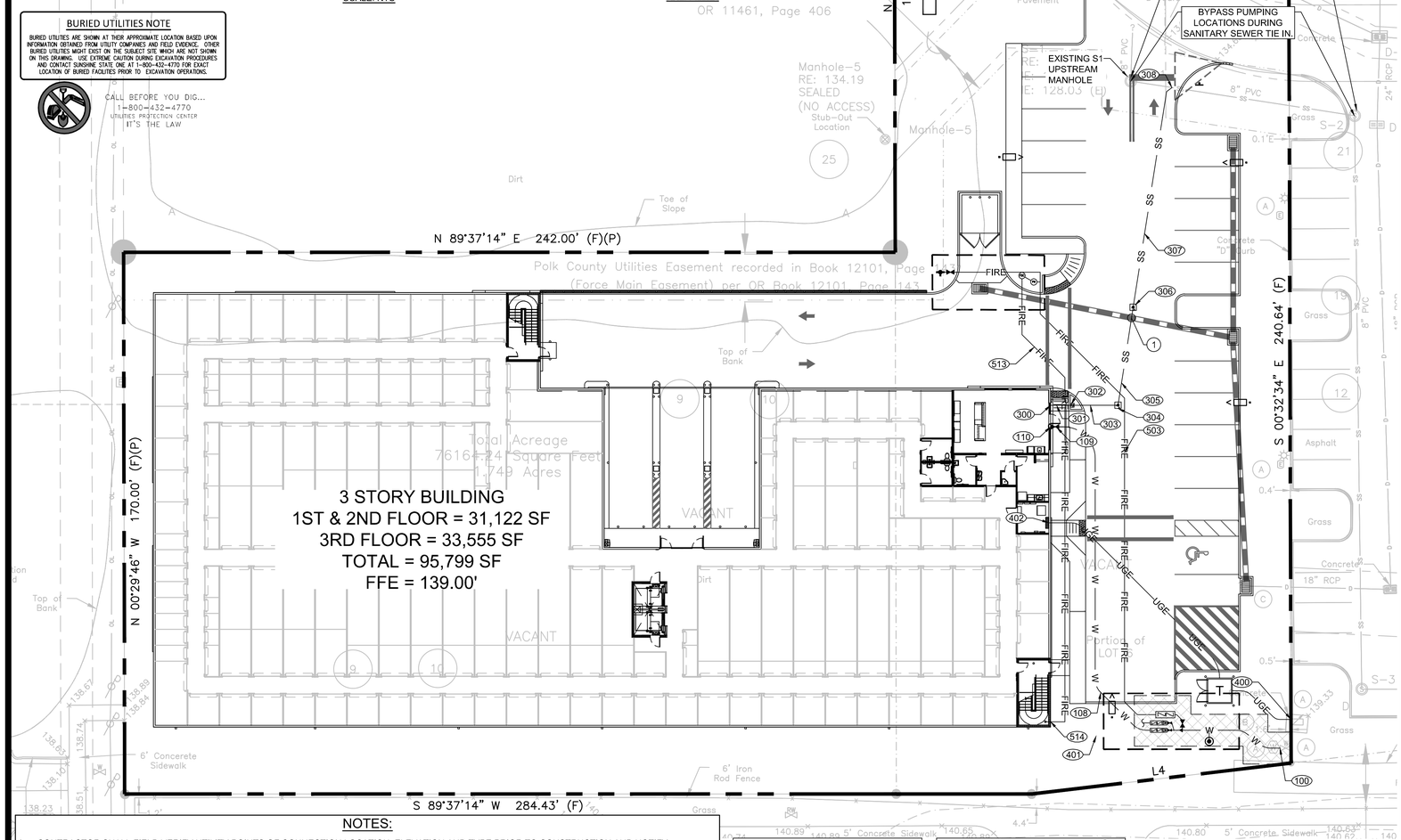
CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW



FDC & FIRE HYDRANT
SCALE: NTS



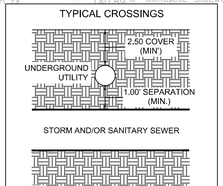
WATER & FIRE SERVICE CONNECTIONS
SCALE: NTS



NOTES:

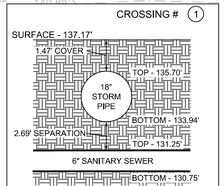
1. CONTRACTOR SHALL FIELD VERIFY UTILITY POINTS OF CONNECTION LOCATION, ELEVATION AND TYPE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING FACILITIES.
2. ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDEXES), THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
3. ALL PROFILES SHOWING EXISTING UTILITIES: LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE PROVIDED BASED ON UTILITY LOCATION SERVICE FIELD MARKINGS WHICH WERE LOCATED BY THE SURVEYOR. CONTRACTOR TO CONFIRM DEPTH OF EXISTING UTILITIES AND NOTIFY ENGINEER IF ANY CONFLICTS ARE ANTICIPATED.
4. THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL NOTES" SHEETS TO ALL BIDDERS AND SUBCONTRACTORS.
5. ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.
6. CONTRACTOR TO REFER/COORDINATE THE WORK SHOWN HEREIN WITH THE WORK SHOWN ON THE REMAINDER OF THESE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THIS AND OTHER PAGES IS FOUND, OR IF THE CONTRACTOR HAS ANY QUESTIONS OF ANY KIND, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING PRIOR TO THE PERFORMANCE OF ANY WORK.
7. CONTRACTOR SHALL SHOOT SANITARY SEWER AND STORM WATER INFRASTRUCTURE AS-BUILT DATA AND SUBMIT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO ASPHALT PAVEMENT AND BASE COURSE INSTALLATION.
8. ALL PIPE BENDS ARE 45° UNLESS NOTED OTHERWISE.
9. REFER TO SHEET C4.0 FOR APPROXIMATE LOCATION OF NEARBY FIRE HYDRANTS.
10. EXISTING BLOWOFF VALVE WILL NEED TO BE RELOCATED AND REMAIN CONNECTED TO THE SYSTEM.

TYPICAL CROSSINGS



NTS

CROSSING # 1



NTS

UTILITY PLAN KEYNOTES

WATER SERVICE CONNECTION

100 CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE AND RELOCATE AUTOMATIC BLOWOFF VALVE, THEN CONNECT TO EXISTING 8.0" GATE VALVE, DETAIL: WA-06 / D3.2 *CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, & DEPTH OF EXISTING WATER METER BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.

101 ±32.3 LF OF 8" C900 WATER SERVICE LINE
DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

102 8" X 8" TEE

103 2" X 8" REDUCER WITH 2" CORPORATION STOP

104 ±4.8 LF OF 2" PE WATER SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

105 2" X 1" X 1" WYE

106 1" CURB STOP INSIDE THE METER BOX, DETAILS: GR-20-1, GR-20-2 / D3.1, WA-05 / D3.2

107 1" WATER METER AND 1" RPZ ASSEMBLY, DETAIL: GR-20-2 / D3.1

108 ±112.3 LF OF 1" BLUE PE WATER SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

109 PROPOSED 1" GATE VALVE AT THE BUILDING POC

110 CONNECT WATER LINE TO STUB-OUT LOCATION FROM BUILDING. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.

IRRIGATION CONNECTION

200 ±4.5 LF OF 2" PVC IRRIGATION SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

201 1" CURB STOP INSIDE THE METER BOX, DETAILS: GR-20-2, GR-20-1 / D3.1, WA-05 / D3.2

202 1" WATER METER AND 1" RPZ ASSEMBLY, DETAIL: GR-20-2, D3.1, WA-05 / D3.2

203 SEE SHEET C7.1 FOR REMAINING IRRIGATION SYSTEM

SANITARY SEWER

300 CONNECT TO STUB OUT AT BUILDING INV. = 134.22', DETAIL: 2 / D3.0
CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.

301 ±6.8 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%,
DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

302 6" TWO-WAY CLEANOUT, INV.= 134.16', DETAIL: 2 / D3.0

303 ±14.4 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%,
DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

304 6" DROP CLEANOUT, HIGH INV.= 134.02', LOW INV.= 131.52', DETAIL: 3 / D3.0

305 ±31.2 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%
DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

306 6" DROP CLEANOUT, HIGH INV.= 131.21', LOW INV.= 128.71', DETAIL: 3 / D3.0

307 ±70.6 LF OF 6" PVC SANITARY SEWER SLOPED AT 1.0%
DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

308 CONTRACTOR TO COORDINATE CONNECTION TO EXISTING 8" SANITARY SEWER MAIN OUTSIDE OF PEAK FLOW HOURS WITH 6" X 8" WYE FITTING
INV.= 128.00'

ELECTRIC AND COMMUNICATIONS

COORDINATE ELECTRIC AND TELEPHONE SERVICE CONNECTIONS WITH APPROPRIATE SERVICE PROVIDERS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC CONNECTION LOCATIONS AND REQUIREMENTS.

400 PROPOSED APPROXIMATE ELECTRIC, TELEPHONE, AND DATA SERVICE CONNECTION POINTS. CONTRACTOR TO VERIFY LOCATION OF SERVICE CONNECTION POINTS BEFORE CONSTRUCTION.

401 ±144.4 LF OF OF UNDERGROUND ELECTRIC, TELEPHONE, AND DATA FROM SERVICE CONNECTION POINT TO BUILDING

402 APPROXIMATE ELECTRIC, TELEPHONE, AND DATA SERVICE CONNECTION TO BUILDING. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.

FIRE SERVICE CONNECTIONS

COORDINATE FIRE SPRINKLER BUILDING CONNECTION LOCATIONS WITH ARCHITECTURAL PLANS. FIRE SPRINKLER MAIN POINTS OF CONNECTION (WHERE THE LINE IS SOLELY USED FOR FIRE SPRINKLERS) MUST TERMINATE ONE FOOT ABOVE FINISHED FLOOR AS REQUIRED PER FS 633.539.

500 8" GATE VALVE, DETAIL: GR-07, GR-11 / D3.0

501 ±7.3 LF OF 8" C900 FIRE SERVICE LINE WITH FITTINGS AND RESTRAINTS
DETAIL: GR-01, GR-02, GR-04, GR-05 / D3.0, GR-14-1 / D3.1

502 8" DOUBLE DETECTOR CHECK VALVE ASSEMBLY, DETAIL: WA-02 / D3.1

503 ±154.2 LF OF 8" C900 FIRE SERVICE LINE WITH FITTINGS AND RESTRAINTS, DETAIL: GR-01, GR-02, GR-04, GR-05 / D3.0, GR-14-1 / D3.1

504 8" X 6" TEE

505 ±31.2 LF OF 8" DIP FIRE SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

506 8" GATE VALVE, DETAIL: GR-07 / D3.0

507 ±5.0 LF OF 6" DIP FIRE SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

508 PROPOSED PRIVATE FIRE HYDRANT, DETAIL: WA-03 / D3.1
*SAMPLE PORT IS NOT REQUIRED FOR PRIVATE HYDRANT. FIRE HYDRANT SHOULD NOT BE PAINTED INTERNATIONAL ORANGE.

509 ±2.0 LF OF 6" DIP FIRE SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

510 POST INDICATOR VALVE

511 ±3.5 LF OF 6" DIP FIRE SERVICE LINE, DETAIL: GR-01, GR-02 / D3.0, GR-14-1 / D3.1

512 FDC CONNECTION

513 ±150.8 LF OF 6" C900 FIRE SERVICE LINE WITH FITTINGS AND RESTRAINTS DETAIL: GR-01, GR-02, GR-04, GR-05, / D3.0, GR-14-1 / D3.1

514 STUB-OUT TO BUILDING CONNECTION, SEE ARCHITECTURAL PLANS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

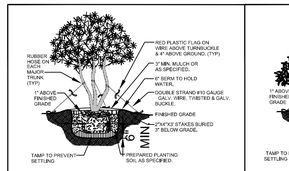
NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME AND SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
JEREMY R. ANDERSON, P.E.
P.E. NUMBER 71636

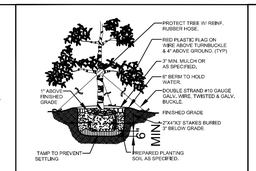
PROJECT # 223.072
DATE 03/03/2026
SHEET C6.0
SCALE 1" = 20'

UTILITY PLAN

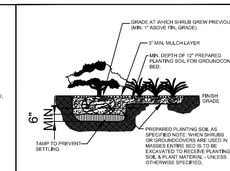
GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 20 ft.



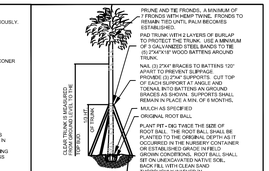
① MULTI-TRUNK DETAIL NTS



② TREE PLANTING DETAIL NTS



③ SHRUB AND GROUND COVER DETAIL NTS



④ PALM PLANTING DETAIL NTS

CANOPY TREE REQUIREMENTS

NOTE: PLANTINGS SHALL PROVIDE A MINIMUM CANOPY, AT MATURITY, OF 50% OF THE V.U.A. OF SITE. UNDERSTORY TREES SHALL NOT BE USED TO MEET CONPY TREE REQUIREMENTS. THE MINIMUM CANOPY, AT MATURITY, MAY BE REDUCED WHEN THE REDUCTION IS ADJACENT TO A PHYSICAL STRUCTURES, NATURAL OR MAN-MADE, THAT POSES A THREAT TO PUBLIC SAFETY. THIS REDUCTION SHALL BE THE MINIMUM TO PROTECT PUBLIC SAFETY AND SHALL BE SHOWN AND REVIEWED AS PART OF THE LEVEL 2 REVIEW SITE CONSTRUCTION PLANS.

TOTAL V.U.A. OF SITE = 17,566 SF.
17,566 SF. V.U.A. X 0.50 (50%) = 8,783 SF.
4 LIVE OAK X 1,964 SF. = 7,856 SF.
4 MAGNOLIA (GEM) X 201 SF. = 804 SF.
2 FLORIDA ELM X 707 SF. = 1,414 SF.
1 BALD CYPRESS X 314 SF. =314 SF.
76,164 SF. / 10,388 SF. = 7.33 = 73.3%
TOTAL CANOPY PARKING AREA COVERAGE = 10,388 SF. (73.3%)

CANOPY TREE REQUIREMENTS

NOTE: A MINIMUM OF 6 TREES PER GROSS ACRE OF SITE SHALL BE REQUIRED.

1 ACRE = 43,560 SF.
TOTAL AREA OF SITE (SF.) = 76,164 SF. / 43,560 SF. = 1.74
1.74 GA. (GROSS ACREAGE)
1.74 GA. X 6 TREES = 10.4 = 11 TREES REQUIRED (MIN.)
30 CANOPY TREES PROPOSED ON-SITE

INTERIOR LANDSCAPE AREA REQUIREMENTS

NOTE: A MINIMUM AREA NOT LESS THAN 5% OF THE TOTAL V.U.A. SHALL BE DEVOTED TO LANDSCAPING. NO MORE THAN 20% OF THE INTERIOR LANDSCAPING AREA REQUIRED MAY BE PROVIDED ADJACENT TO THE BUILDING ON-SITE. ALL OTHER LANDSCAPING SHALL BE PROVIDED IN THE FORM OF INTERIOR ISLANDS, DIVIDER MEDIANS, AND PERIMETER LANDSCAPE STRIPS. LANDSCAPE AREAS SHALL BE LOCATED IN SUCH A MANNER AS TO DIVIDE AND BREAKUP THE EXPANSE OF PAVING TO GUIDE TRAFFIC FLOW.

TOTAL V.U.A ON-SITE = 17,566 SF.
17,566 SF. V.U.A. X 0.05 (5%) = 878 SF.
TOTAL INTERIOR LANDSCAPE AREAS PROVIDED = 5,642 SF.
5,642 SF. > 878 SF, (5% OF V.U.A)

LANDSCAPE REQUIREMENTS FOR PARKING AREAS

NOTE: A MINIMUM OF 15 SF. OF LANDSCAPING FOR EACH PARKING SPACE SHALL BE PROVIDED WITHIN THE INTERIOR OF A REQUIRED OFF-STREET PARKING AREA.

TOTAL NUMBER OF PARKING SPACES = 21 SPACES
21 SPACES X 15 SF. = 315 SF. REQUIRED
562 SF. PROVIDED

NOTE: AT LEAST 1 TREE SHALL BE PLANTED IN EACH TERMINAL ISLAND.

NORTH- EAST BUFFER TYPE "A" (6')
ADJACENT PARCEL CLASS 1 (R.O.W. - ENTRANCE)
81.3LF / 100LF = 0.81
0.81 X 2 = 1.6
02 SHADE TREES REQUIRED
(DUE TO VISIBILITY CONSTRAINTS ONLY UNDERSTORY TREES PROPOSED)
0.81 X 3 = 2.4
03 UNDERSTORY TREES REQUIRED
05 UNDERSTORY TREES PROPOSED
0.81 X 33 = 26.7
27 SHRUBS REQUIRED
27 SHRUBS PROPOSED

WEST- NORTH BUFFER TYPE "B" (10')
ADJACENT PARCEL CLASS 4 (VACANT/RETAIL)
143.3LF / 100LF = 1.43
1.43 X 2 = 2.8
03 SHADE TREES REQUIRED
03 SHADE TREES PROPOSED
1.43 X 4 = 5.7
06 UNDERSTORY TREES REQUIRED
06 UNDERSTORY TREES PROPOSED
1.43 X 25 = 35.7
36 SHRUBS REQUIRED
36 SHRUBS PROPOSED

NORTH- WEST BUFFER TYPE "B" (5')
ADJACENT PARCEL CLASS 4 (VACANT/RETAIL)
242.0LF / 100LF = 2.42
2.42 X 2 = 4.8
05 SHADE TREES REQUIRED
04 SHADE TREES PROPOSED
01 SHADE TREE RELOCATED (EXISTING)
2.42 X 4 = 9.6
10 UNDERSTORY TREES REQUIRED
10 UNDERSTORY TREES PROPOSED
2.42 X 25 = 60.5
61 SHRUBS REQUIRED
61 SHRUBS PROPOSED

WEST- SOUTH BUFFER TYPE "N"
ADJACENT PARCEL CLASS 5
(AGRICULTURAL/ RETENTION)

(1) EXISTING TREE TO BE RELOCATED, PRIOR TO CONSTRUCTION OF BUILDING FOUNDATION.

3 STORY BUILDING
1ST & 2ND FLOOR = 31,122 SF
3RD FLOOR = 33,555 SF
TOTAL = 95,799 SF
FFE = 139.00'

MULCH ONLY FIRE HYDRANT

EAST BUFFER TYPE "B" (10')
ADJACENT PARCEL CLASS 4 (VEHICLE-MAJOR)
240.5LF / 100LF = 2.40
2.40 X 2 = 4.8
05 SHADE TREES REQUIRED
05 SHADE TREES PROPOSED
2.40 X 4 = 9.6
10 UNDERSTORY TREES REQUIRED
10 UNDERSTORY TREES PROPOSED
2.40 X 25 = 60
60 SHRUBS REQUIRED
60 SHRUBS PROPOSED

SOUTH BUFFER TYPE "C" (20')
ADJACENT PARCEL CLASS 3 (MULTI-FAMILY)
366.3LF / 100LF = 3.66
3.66 X 4 = 14.6
15 SHADE TREES REQUIRED / 15 SHADE TREES PROPOSED
3.66 X 5 = 18.3
19 UNDERSTORY TREES REQUIRED / 19 UNDERSTORY TREES PROPOSED
3.66 X 20 = 73.2
74 SHRUBS REQUIRED / 74 SHRUBS PROPOSED

PLANT LIST

SYMBOL	BOTANICAL NAME (COMMON NAME)	MINIMUM SIZE/SPACING	DROUGHT TOLERANCE	NATIVE FLORIDA	QUANTITY
QV	QUERCUS VIRGINIANA (SOUTHERN LIVE OAK)	10' MIN.HT. 2" DBH MIN.	YES	YES	5
TD	TAXODIUM DISTICHUM (BALD CYPRESS)	10' MIN.HT. 2" DBH MIN.	YES	YES	6
MG	MAGNOLIA GRANDIFLORA ('LITTLE GEM' MAGNOLIA)	10' MIN.HT. 2" DBH MIN.	YES	YES	6
PP	PINUS PALLUSTRIS (LOBLOLLY PINE)	10' MIN.HT. 2" DBH MIN.	YES	YES	8
UA	ULMAS AMERICANA 'FLORIDANA' (FLORIDA ELM)	10' MIN.HT. 2" DBH MIN.	YES	YES	5
IV	ILEX VOMITORIA (YAUPON HOLLY)	8' MIN.HT. MULTI-TRUNK 1.5" DBH. MIN.	YES	YES	11
LJ	LIGUSTRUM JAPONICUM (WAX-LEAF PRIVET)	8' MIN.HT. MULTI-TRUNK 1.5" DBH. MIN.	YES	NO	11
PF	PHOTINIA X FRASERI ('RED-TIP' FRASER PHOTINIA)	8' MIN.HT. SINGLE-TRUNK 1.5" DBH. MIN.	YES	NO	9
LI	LAGERSTROEMIA INDICA ('NATCHEZ' CRAPE MYRTLE)	8' MIN. HT. MULTI-TRUNK 1.5" DBH. MIN.	YES	YES	21
PM	PODOCARPUS MACROPHYLUS (PODOCARPUS)	30" MIN. HT. 36" O.C. 7 GAL.	YES	NO	129
VO	VIBURNUM ODORATISSIMUM (SWEET VIBURNUM)	30" MIN. HT. 36" O.C. 7 GAL.	YES	NO	130
PT	PITTOSPORUM TOBIRA 'VARIEGATA' (VARIEGATED PITTOSPORUM)	24" MIN. HT. 30" O.C. 7 GAL.	YES	NO	40
DE	DURANTA ERECTA 'GOLD MOUND' ('GOLD MOUND' DURANTA)	24" MIN. HT. 30" O.C. 7 GAL.	YES	NO	17
TA	TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)	18" MIN.HT 1 GAL. 18" O.C.	YES	NO	71
JH	JUNIPERUS HORIZONTALIS 'WILTONII' (BLUE RUG' JUNIPER)	18" MIN. HT. 1 GAL. 18" O.C.	YES	NO	216
LMV	LIRIOPE MUSCARI 'VARIEGATA' (VARIEGATED LILY TURF)	18" MIN.HT. 3 GAL. 24" O.C.	YES	NO	22
RI	RAPHOLEPIS INDICA 'NANA' (DWARF INDIAN HAWTHORN)	18" MIN.HT. 3 GAL. 24" O.C.	YES	YES	32
WM	MULENBURGIA CAPILLARIS ('WHITE CLOUD' MUHLY GRASS)	24" MIN.HT. 3 GAL. 30" O.C.	YES	YES	100
SOD	BAHIA	QUANTITY TO BE CALCULATED BY CONTRACTOR	YES	YES	TBD

PLANT QUANTITY — 00 / XX — PLANT SYMBOL

NOTE:
WHERE GALLON REFERENCES MAY CONFLICT WITH HEIGHT/SPREAD AND CALIPER MEASUREMENTS, THE HEIGHT/SPREAD AND CALIPER MEASUREMENTS SHALL GOVERN.

GENERAL LANDSCAPE NOTES

1. ALL PLANTS TO BE FLORIDA NO. 1, OR BETTER AS OUTLINED UNDER 'GRADES AND STANDARDS FOR NURSERY PLANTS, PART I, 1963 AND PART II, STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA, AND ANY AMMENDMENTS THERETO.
2. ALL TREES AND PLANT MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS DESCRIBED IN THE STATE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF FORESTRY, "TREE PROTECTION MANUAL FOR BUILDERS AND DEVELOPERS", OCTOBER, 1980.
3. THE LANDSCAPE CONTRACTOR (CONTRACTED BY OWNER, N.L.C.) SHALL BE RESPONSIBLE FOR ALL MATERIALS AND ALL WORK AS CALLED FOR ON THE LANDSCAPE PLANS. THE LIST OF PLANT QUANTITIES ACCOMPANYING THE PLANS SHALL BE USED AS A GUIDE ONLY. IF A VARIATION OCCURS BETWEEN THE PLANS AND THE PLANT LIST, THE PLANS SHALL CONTROL.
4. ALL TREES, SHRUBS AND GROUND COVERS SHALL BE PLANTED USING A SOIL MIXTURE PREPARED ACCORDINGLY (2/3 EXISTING SOIL, 1/3 PEAT).
5. THE LANDSCAPE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS. VERTICAL DRILLING THROUGH ANY COMPACTED FILL TO NATIVE SOIL SHALL BE ACCOMPLISHED TO AID DRAINAGE.
6. ALL PLANT BEDS AND TREE WATERING BASINS SHALL BE TOP DRESSED WITH THREE INCHES (3") OF SHREDDED ORGANIC (CYPRESS) MULCH.
7. NO TREES SHALL BE PLANTED CLOSER THAN 3 FEET (3') FROM THE EDGE OF PAVEMENT TO ALLOW ADEQUATE TREE TRUNK PROTECTION.
8. LANDSCAPE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIAL.
9. ALL LAWN AREAS TO RECEIVE SOD SHALL BE DISKED FOUR(4") TO SIX(6") INCHES AND DRAGGED TO ESTABLISH A LEVEL FINISH GRADE. ALL DEBRIS TO BE REMOVED FROM THE SITE.
10. SOD SHALL BE FREE OF WEEDS AND PESTS. IT SHALL BE LAID EVENLY AND ROLLED, WITH TIGHT FITTING JOINTS. THE SOD SHALL CONTAIN MOIST SOIL WHICH DOES NOT FALL APART OR TEAR WHEN LIFTED. ALL AREAS NOT PAVED OR OTHERWISE LANDSCAPED SHALL BE SODDED. SOD SHALL BE (BAHIA) OR EQUAL.
11. ALL LANDSCAPE AREAS TO BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND SYSTEM, WITH 100% COVERAGE, BACKFLOW PREVENTOR, & RAIN SENSOR DEVICE.
12. THE TREE DIAMETER OF ALL CANOPY TREES SPECIFIED ON THE PLANT LIST SHALL BE MEASURED AT FOUR AND ONE HALF (4 1/2') FEET ABOVE GRADE.
13. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING ON SITE OR ADJACENT AREAS, INCLUDING BUT NOT LIMITED TO BUILDINGS, PAVING, UTILITIES, ETC., WHICH IS CAUSED BY PREPARING OR INSTALLING ANY AND ALL PLANT MATERIAL.

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG...
1-800-432-4770
UTILITIES PROTECTION CENTER
IT'S THE LAW

NOTE: LANDSCAPE PLAN CONFORMS TO FLORIDA FRIENDLY STANDARDS.

NOTE: ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.

RICK ABT
5349 HUGH HOWELL RD.
STONE MOUNTAIN, GA 30087
404-909-2736

Richard T. Abt, State of Florida, Landscape Architect, License No.1321

This item has been digitally signed and sealed by Richard T. Abt on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & PE#
RICK ABT
FLORIDA R.L.A #1321

PROJECT # 223.072
DATE 03/03/2026
SCALE 1" = 20'
SHEET C7.0
LANDSCAPE PLAN

GRAPHIC SCALE

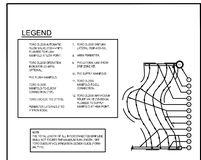
0 10 20

(IN FEET)

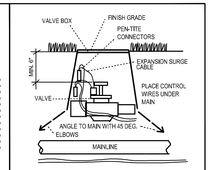
1 inch = 20 ft.

IRRIGATION NOTES:

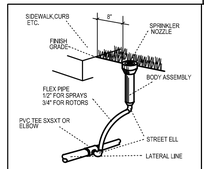
LANDSCAPE CONTRACTOR IS TO PROVIDE AN ENTIRE IRRIGATION SYSTEM WHICH PROVIDES 100% COVERAGE OF ALL PLANT AND GRASSED AREAS WITH HEAD TO HEAD SPACING OF SPRAY HEADS. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM TO INCLUDE, BUT NOT LIMITED TO CONTROLLER, VALVES, PIPING, HEADS, RISERS, BACKFLOW PREVENTER, METER, WIRING, ELECTRICAL SUPPLY. PROVIDE AS-BUILT DRAWINGS UPON COMPLETION AND PRIOR TO FINAL PAYMENT. PROVIDE A RAIN SENSOR IN A CONSPICUOUS LOCATION OPEN TO RAINFALL. COORDINATE ALL WORK AND SLEEVE LOCATIONS WITH GENERAL CONTRACTOR. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNER/ARCHITECT REVIEW AND APPROVAL PRIOR TO INSTALLATION. LANDSCAPE CONTRACTOR IS TO PROVIDE AND INSTALL A SEPARATE WATER METER FOR IRRIGATION PURPOSES. LANDSCAPE CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED FOR THE INSTALLATION OF THE IRRIGATION SYSTEM.



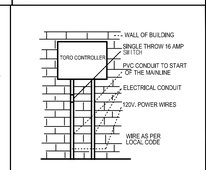
① DRIP IRRIGATION DETAIL NTS



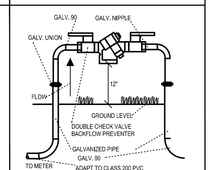
② ELECTRIC VALVE DETAIL NTS



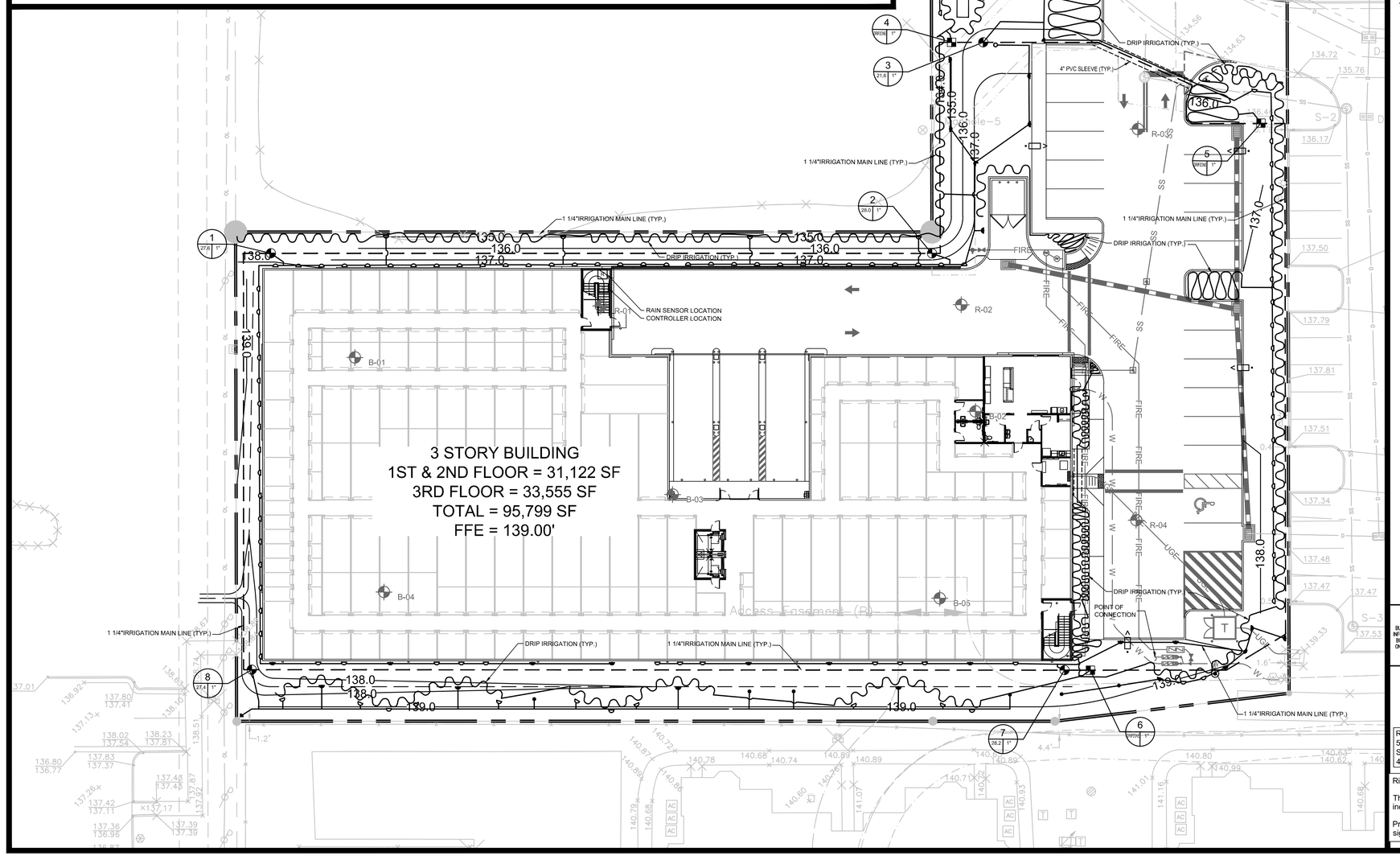
③ HEAD DETAIL NTS



④ CONTROLLER DETAIL NTS



⑤ BACKFLOW PREVENTER NTS



IRRIGATION LEGEND

FULL 6" POP-UP SPRAY HEAD	570-8-F
1/4 6" POP-UP SPRAY HEAD	570-8-Q
1/2 6" POP-UP SPRAY HEAD	570-8-H
1/3 6" POP-UP SPRAY HEAD	570-8-T
2/3 6" POP-UP SPRAY HEAD	570-8-TT
3/4 6" POP-UP SPRAY HEAD	570-8-TQ
FULL 6" POP-UP SPRAY HEAD	570-15-F
1/4 6" POP-UP SPRAY HEAD	570-15-Q
1/2 6" POP-UP SPRAY HEAD	570-15-H
1/3 6" POP-UP SPRAY HEAD	570-15-T
2/3 6" POP-UP SPRAY HEAD	570-15-TT
3/4 6" POP-UP SPRAY HEAD	570-15-TQ
CENTER STRIP SPRAY HEAD	570-4-CST
SIDE STRIP SPRAY HEAD	570-4-SST
END STRIP SPRAY HEAD	570-4-EST
DENOTES VARIABLE 6" POP-UP SPRAY HEAD IN 15' PATTERN	570-15-ADJ
DENOTES 4" POP-UP SPRAY HEAD OR ROTOR ON PVC RISER	
POP-UP STREAM ROTOR	
500 SERIES STREAM BUBBLER	
TORO PLASTIC VALVE (SPRAY HEADS)	
TORO PLASTIC VALVE (DRIP ZONES)	
CLASS 200 PVC MAIN LINE	
CLASS 160 PVC LATERAL LINE	
PVC SLEEVE 4" IN DIAMETER	
PIPE CROSSOVER	
BACKFLOW PREVENTER	
IRRIGATION METER	
CONTROLLER LOCATION TORO MODEL # CC-P12	
RAIN SENSOR LOCATION	

DRIP IRRIGATION

2 (28.8 1") — VALVE ZONE NO., VALVE SIZE, VALVE GPM

VALVES

254-06-03	3/4" VALVES
252-06-04	1" VALVES
252-25-06	1.5" VALVES

NOTE: MODEL NOS. SHOWN REFLECT TORO SPRINKLER HEADS. ANY HEADS OF EQUAL QUALITY MAY BE USED WITH THE APPROVAL OF THE OWNER. CONTRACTOR TO SIZE ALL LATERAL LINES AND INSURE THE PERFORMANCE OF ALL HEADS.

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG... 1-800-432-4770 UTILITIES PROTECTION CENTER IT'S THE LAW

NOTE: IRRIGATION PLAN CONFORMS TO FLORIDA FRIENDLY STANDARDS.

NOTE: ALL DISTURBED AREAS TO BE SODDED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITION.

RICK ABT
5349 HUGH HOWELL RD.
STONE MOUNTAIN, GA 30087
404-909-2736

Richard T. Abt, State of Florida, Landscape Architect, License No.1321

This item has been digitally signed and sealed by Richard T. Abt on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & PE#

RICK ABT
FLORIDA PLA #1321

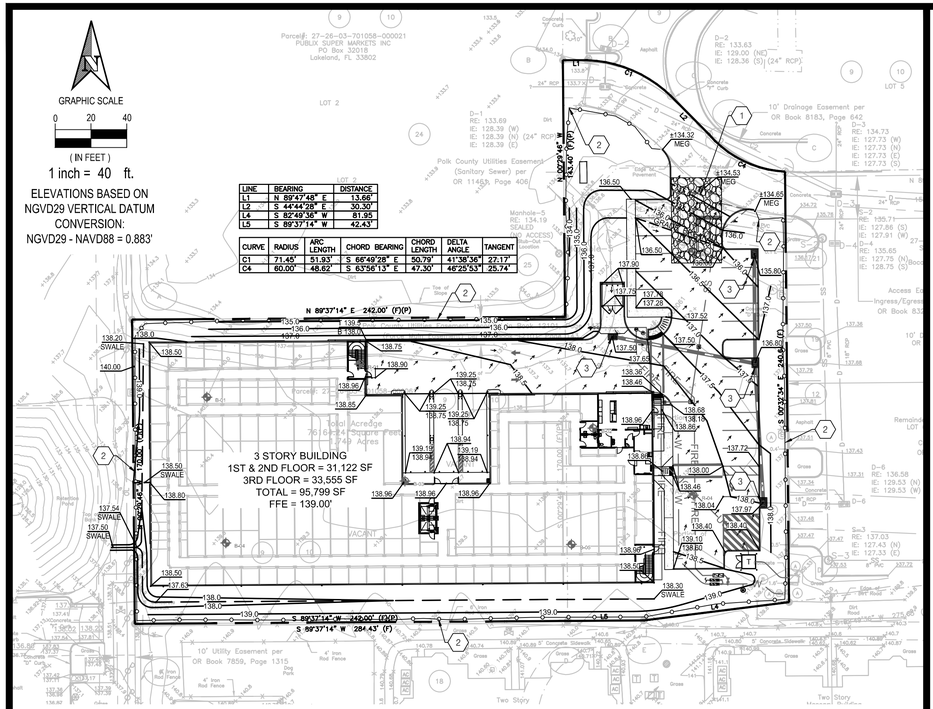
PROJECT # 223.072

DATE 03/03/2026

SCALE 1" = 20'

SHEET C7.1

IRRIGATION PLAN



BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATE ONE AT 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

CALL BEFORE YOU DIG... 1-800-432-4770 UTILITIES PROTECTION CENTER IT'S THE LAW

PROJECT NAME AND LOCATION

PROJECT NAME: SELF STORAGE AT OSCEOLA POLK LINE RD
TAX PARCEL: 27-26-03-701058-000061

LOCATION: OSCEOLA POLK LINE RD
LAT: N28° 15' 32.88"
LONG: E278° 24' 22.11"

*SEE COVER SHEET FOR LOCATION MAP

DEVELOPER NAME AND ADDRESS
RBS CAPITAL MGMT, LLC
704 FOREST HEIGHTS LN
KNOXVILLE, TN 37919

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF ONE THREE-STORY SELF STORAGE BUILDING TOTALING 96,200 SF, ONE OFFICE, ON-SITE PARKING, AND STUB-OUT TO EXISTING OFF-SITE STORMWATER MANAGEMENT SYSTEM

PROJECT AREA: 1.75 ACRES

ULTIMATE RECEIVING WATERS: AQUIFER

ACTIVITIES THAT REQUIRE EROSION CONTROL
SITE CLEARING AND GRUBBING; PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; EXCAVATION FOR THE RETENTION POND; SITE GRADING; INSTALLATION OF STORM WATER, SANITARY SEWER, AND WATER STRUCTURES; CURB, ROADWAYS, AND PARKING FACILITIES.

*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL METHODS.

SOIL PARAMETERS
SOIL TYPES: REFER TO GEOTECH REPORT

SEQUENCE OF MAJOR ACTIVITIES
HALT ALL ACTIVITIES AND CONTACT THE DESIGN CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP's. THE GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT A STORM WATER PRE-CONSTRUCTION MEETING WITH THE ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

THE ORDER OF CONSTRUCTION IS AS FOLLOWS:
1. PROVIDE STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND OTHER EROSION CONTROL METHODS
3. CLEAR AND GRUB FOR SEDIMENT BASIN AND EARTH DIKE. PREPARE TEMPORARY PARKING AND STORAGE AREA, UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
4. CONSTRUCT EARTH DIKE AND SEDIMENT BASIN, IF REQUIRED
5. FINISH CLEARING AND GRUBBING
6. REMOVE AND STORE TOPSOIL
7. PROVIDE INITIAL GRADING AS REQUIRED
8. STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE VIA SEEDING
9. INSTALL UTILITIES, STORM SEWER, CURB AND GUTTER
10. INSTALL RIP RAP AROUND OUTLET STRUCTURES,
11. INSTALL BASE TO ROAD AND PARKING AREA
12. FINISH GRADING ENTIRE SITE
13. CONSTRUCT FINAL PAVING
14. REMOVE ACCUMULATED SEDIMENT
15. REMOVE ANY ITEMS THAT ARE NOT REQUIRED (ONLY IF STABILIZED)

TIMING OF CONTROL MEASURES
THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES), A STABILIZED ENTRANCE AND SEDIMENT BASIN SHALL OCCUR PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE REGRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

CONTROLS:
1. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ONSITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT NOTED THAT THE MEASURES IDENTIFIED ON SHOULD BE THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS).
2. EROSION AND SEDIMENT CONTROL BMP'S IN ADDITION TO THOSE PRESENTED ON THESE PLANS SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMP'S SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. (THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.)

ITEMS REQUIRING POLLUTION PREVENTION

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT ON THE PROJECT SITE:

- ☐ ASPHALT
- ☐ CONCRETE
- ☐ FERTILIZERS
- ☐ METAL PIECES
- ☐ PETROLEUM BASED PRODUCTS
- ☐ TAR
- ☐ CLEANING SUPPLIES
- ☐ DETERGENTS
- ☐ MASONRY BLOCK/BRICKS
- ☐ PAINT
- ☐ WOOD

THE FOLLOWING ARE NON-STORM WATER SOURCES THAT WILL BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE:

- UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION
- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

RESPONSIBLE STEWARDSHIP

- SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
- ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

HAZARDOUS PRODUCTS

- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED, IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PRODUCT SPECIFIC PRACTICES

- PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
- THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
- ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
- THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

S.W.P.P.P. IMPLEMENTATION UPDATES AND AMENDMENTS:

THE CONTRACTOR MUST UPDATE THE S.W.P.P.P. INCLUDING THE JOBSITE BINDER AND SITE MAPS TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR; BMP INSTALLATION, MODIFICATION OR REMOVAL. CONSTRUCTION ACTIVITIES (E.G. PAVING, STORM SEWER, INSTALLATION, FOOTING INSTALLATION, ETC.) CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.

IMPORTANT:
THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE DESIGN ENGINEER AND OBTAIN WRITTEN APPROVAL FROM THE DESIGN ENGINEER BEFORE DOING ANY OF THE FOLLOWING:

1. MODIFYING EROSION OR SEDIMENT CONTROL BMPS (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK.)
2. ADDING/DELETING EROSION OR SEDIMENT CONTROL BMPS.
3. MODIFYING THE S.W.P.P. IMPLEMENTATION SEQUENCE
4. PERFORMING ANY ACTIONS OR IN ANY MANNER THAT CONTRARY TO THE S.W.P.P.P.

THE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMPS, WITHOUT THE DESIGN ENGINEER APPROVAL, IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY; HOWEVER, THE GC MUST NOTIFY THE DESIGN ENGINEER AS SOON AS PRACTICAL AS THEIR ACTIONS TO DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRED APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.

AMENDING THE S.W.P.P.P. DOES NOT MEAN THAT IT HAS TO BE REPRINTED. IT IS ACCEPTABLE TO ADD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE DESIGN ENGINEERS NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COPY OF THE ASSOCIATED RFI AND IT'S RESPONSE FROM THE DESIGN ENGINEER. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

INSPECTION AND MAINTENANCE NOTES

N.P.D.E.S. PERMIT COMPLIANCE REQUIRES INSPECTIONS EVERY 7 CALENDAR DAYS BY A NPDES QUALIFIED INSPECTOR AS PERIODIC INSPECTIONS WITHIN 24 HOURS OF ANY RAINFALL EVENT (OR EQUIVALENT SNOWFALL EVENT) OF 0.5 INCHES OR GREATER. THESE INSPECTIONS MAY RESULT IN RECOMMENDATIONS FOR ROUTINE MAINTENANCE OF THE SOIL EROSION CONTROL DEVICES, AS WELL AS FURTHER MAINTENANCE AS OUTLINED BELOW.

1. THROUGHOUT THE CONSTRUCTION PERIOD, ALL MUD/SILT TRACKED ONTO EXISTING FDOT ROADS FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.
2. CATCH BASIN INLET AND CONCRETE FLUME FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. WEEKLY INSPECTIONS WILL BE PERFORMED EVERY 7 CALENDAR DAYS. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT.
3. CONSTRUCTION ACCESS AND TRACKING MAT MUST BE MAINTAINED AS NECESSARY. REPLENISH CRUSHED AGGREGATE IF PRESENT LAYER IS FILLED WITH SEDIMENT, POOLING WATER OR HAS RUTS. A NEW LAYER MAY BE ADDED IF OLD LAYERS BECOME COMPACTED.
4. SILT FENCE IS TO BE INSPECTED DAILY BY CONTRACTOR AND EVERY 7 CALENDAR DAYS BY NPDES QUALIFIED INSPECTOR. IF REPAIRS OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED IMMEDIATELY. THE SILT FENCE SHOULD BE TRENCHED IN, BACK-FILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE INCLUDES THE REMOVING OF BUILT-UP SEDIMENT. WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE, CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO REINSTALL IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.
5. SEEDING OR RESEEDING MAY BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED BY RUNOFF.
6. REMOVE ANY VISIBLE SEDIMENT FROM THE POND BOTTOM TO KEEP THE BASIN DESIGNED INFILTRATION PERFORMANCE
7. THE CONTRACTOR SHALL CONTINUOUSLY ENSURE THAT THE PERIMETER OF THE SITE, INCLUDING CONSTRUCTION ENTRANCES, IS SECURED FROM ALLOWING DEBRIS TO LEAVE THE SITE DUE TO CONSTRUCTION ACTIVITY OR RAINFALL EVENTS. A WEEKLY LOG SHALL BE UPDATED AND KEPT ONSITE IN ACCORDANCE WITH THE NPDES PERMIT. BY BIDDING DOCUMENTS CONTRACTOR ACKNOWLEDGES HE/SHE IS AWARE OF NPDES GUIDELINES AND POLICIES AS WELL AS BEST MANAGEMENT PRACTICES AND ASSUMES SOLE RESPONSIBILITY FOR FINES IMPOSED BY GOVERNMENTAL AGENCIES DUE TO VIOLATIONS.
8. THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.
9. PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.
10. OFF SITE SURFACE WATER DISCHARGES, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN

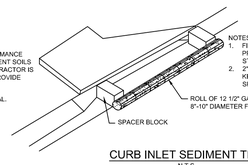
NOTICE TO GENERAL CONTRACTORS:

1. THIS IS THE CONTRACTOR'S CERTIFICATION OF CORRECT INSPECTION AND MAINTENANCE. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.
2. A COPY OF SHEET C0,1 AND C0.2 SHALL BE PROVIDED TO ALL BIDDERS AND SUB-CONTRACTORS

CONTRACTOR'S RESPONSIBILITY

EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CRITERIA. IF THE BMPS PROVIDED DO NOT PREVENT SOILS FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM A SITE.

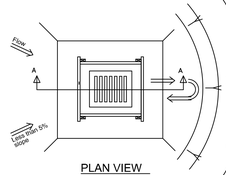
BUILDING BLOCK LAID 6" FROM THROAT WEB HORIZONTAL.



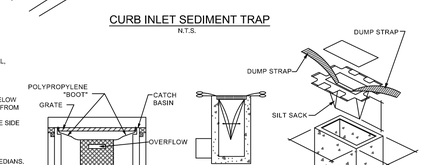
CURB INLET SEDIMENT TRAP
N.T.S.

CONTRACTOR'S RESPONSIBILITY
EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CRITERIA. IF THE BMPS PROVIDED DO NOT PREVENT SOILS FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM A SITE.

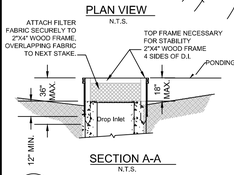
NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. USE 2"X4" WOOD OR EQUIVALENT METAL STAKES. (3' MIN. LENGTH).
3. INSTALL 2"X4" WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
5. MIRAFI OR APPROVED EROSION CONTROL FABRIC SHALL BE WRAPPED AROUND GRATE.
6. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



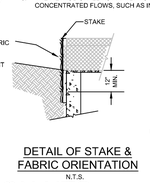
PLAN VIEW
N.T.S.



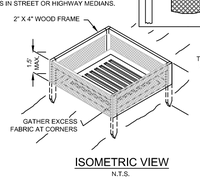
INSTALLATION DETAIL



SECTION A-A
N.T.S.



DETAIL OF STAKE & FABRIC ORIENTATION
N.T.S.



ISOMETRIC VIEW
N.T.S.

BAG DETAIL
NO SCALE

SILT SACK

NOTE: TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.

1 INLET PROTECTION NTS

CONTRACTOR'S CERTIFICATION:
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

SIGNATURE AND DATE	NAME AND TITLE, COMPANY/ADDRESS AND TELEPHONE NUMBER	RESPONSIBILITY

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

PERMITTEE / AGENT _____ DATE _____

OWNER'S/AGENT'S CERTIFICATION:
THE OWNER/AGENT IS AWARE OF, AND MUST ASSURE MAINTENANCE OF, THE EROSION PROTECTION THAT IS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION.

OWNER / AGENT _____ DATE _____

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.

PROJECT NAME: _____
FDEP NPDES IDENTIFICATION NUMBER: _____

NOTE: THIS IS AN EXAMPLE OF AN INSPECTION LOG AND IS GIVEN FOR REFERENCE PURPOSES ONLY. THIS OR A SIMILAR FORM IS REQUIRED.

LOCATION	RAIN DATA	TYPE OF CONTROL (SEE BELOW)	DATE INSTALLED/ MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION/ OTHER REMARKS

CONDITION CODE:
G=GOOD, M=MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON, P=POOR, NEEDS IMMEDIATE REPLACEMENT, C=NEEDS TO BE CLEANED, O=OTHER

CONTROL TYPE CODES

1. SILT FENCE	13. RETENTION POND	25. HAY BALES
2. EARTH DIKES	14. CONSTRUCTION ENTRANCE STABILIZATION	26. GEOTEXTILE
3.STRUCTURAL DIVERSION	15. PERIMETER DITCH	27. RIP-RAP
4. SWALE	16. CURB AND GUTTER	28. TREE PROTECTION
5. SEDIMENT TRAP	17. PAVED ROAD SURFACE	29. DETENTION POND
6. CHECK DAM	18. ROCK OUTLET PROTECTION	30. RETENTION POND
7. SUBSURFACE DRAIN	19. REINFORCED SOIL RETAINING SYSTEM	31. WASTE DISPOSAL/ HOUSE KEEPING
8. PIPE SLOPE DRAIN	20. GABON	32. DAM
9. LEVEL SPREADERS	21. SEDIMENT BASIN	33. SAND BAG
10. STORM DRAIN INLET PROTECTION	22. TEMPORARY SEED/SOD	34. OTHER
11. VEGETATIVE BUFFER STRIP	23. PERMANENT SEED/SOD	
12. VEGETATIVE PRESERVATION AREA	24. MULCH	

INSPECTOR INFORMATION:
NAME: _____ QUALIFICATION: _____ DATE: _____

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

NAME (RESPONSIBLE AUTHORITY) DATE _____

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE AT OSCEOLA POLK LINE RD DAVENPORT, FL 33896 POLK COUNTY

NO.	REVISION / ISSUE:	DATE:	BY:

JEREMY R. ANDERSON, P.E. No. 71636 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROJECT # 223.072
DATE 03/03/2026
SCALE NTS
SHEET C9.0
EROSION CONTROL PLAN

EROSION AND SEDIMENT CONTROL NOTES:

1. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY. SEDIMENT CONTROL CONSISTS OF SILT FENCING, HAY BALES, AND FLOATING TURBIDITY BARRIERS PER CURRENT FDOT SPECIFICATIONS. EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.

2. CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSIONS ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

3. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

4. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 14 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNT OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

5. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

6. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.

7. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHED OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN AREA WITHIN THE PROJECT LIMITS FOR CONCRETE TRUCK WASHOUT ACTIVITIES. THIS AREA SHALL PROVIDE EROSION CONTROL DEVICES THAT PREVENT CONTACT BETWEEN CONCRETE WASHOUT MATERIALS AND STORMWATER AND/OR SURFACE WATERS.

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

   A. PROJECT SCHEDULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO THE SPECIFIC DATES OR CONSTRUCTION ACTIVITIES.
   B. ALTERATIONS TO THE DESIGN EROSION AND SEDIMENT CONTROLS DUE TO DIFFERENCE BETWEEN THE DESIGN PLANS AND ANTICIPATED CONSTRUCTION PHASING AND THE CONTRACTOR'S CONSTRUCTION METHODS
   C. NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
   D. THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY EROSION CONTROL. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT EROSION CONTROLS.
   E. THE DEVELOPMENT OF THE APPLICABLE BMPS TO ENSURE THE CONTROL OF OFF-SITE TRACKING/SPILLAGE, SANITARY, WASTE, FERTILIZERS & PESTICIDES, SOLID WASTE DISPOSAL, AND NON-STORMWATER DISCHARGES & HAZARDOUS WASTE. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE PROJECT ENGINEER. DISPOSITION OF HAZARDOUS WASTEWILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER.
   F. INSPECT EROSION AND SEDIMENT CONTROLS WEEKLY OR IMMEDIATELY FOLLOWING A RAIN EVENT OF 1/2 INCH OR GREATER DURING CONSTRUCTION. REMOVE ANY SEDIMENT BUILDUP, REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF INSPECTION REVEALS ADDITIONAL SEDIMENTATION CONTROL IS NECESSARY.

10. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.

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

12. DE-WATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE WATER MANAGEMENT DISTRICT.

13. ALL DE-WATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.

14. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND ANY GOVERNING JURISDICTIONS INQUIRES RELATIVE TO COMPLIANCE FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

15. ALL FILL SLOPES SHALL HAVE SILT FENCE AT THE TOP OF SLOPES.

16. ALL SLOPES STEEPER THEN 2:5:1 AND WITH A HEIGHT OF 10' FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS AND ACCORDING TO FLORIDA E.P.D. REQUIREMENTS.

17. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.

PROTECTION OF SURFACE WATERS

1. WHERE APPROPRIATE OR WHEN REQUIRED BY STATE, FEDERAL OR LOCAL AGENCIES, DOWNSTREAM RECEIVING WATERS SHALL BE MONITORED THROUGHOUT CONSTRUCTION FOR TURBIDITY AND PH. A BACKGROUND SAMPLE SHALL BE TAKEN PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES, SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

3. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

4. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIMITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
   A.) IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
   B.) NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
   C.) PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALL PRIOR TO LAND DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED.

5. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

CONTROL OF FUGITIVE DUST AND WIND EROSION

1. THESE NOTES ARE PROVIDED TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, TO REDUCE ON AND OFF SITE DAMAGE AND HEALTH HAZARDS, AND TO IMPROVE TRAFFIC SAFETY ON THE CONSTRUCTION SITE.

2. THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF SITE DAMAGE IS LIKELY WITHOUT TREATMENT. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES AS APPROPRIATE AND AS DIRECTED BY THE ENGINEER.

3. THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

   A. MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY
   B. VEGETATIVE COVER - SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD.
   C. SPRAY ON ADHESIVES (SEE CHART BELOW) - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPRAY	WATER DILUTION	APPLY ACCORDING TO MANUFACTURE'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD	
ACIDULATED SOY BEAN SOP STICK	NONE	COARSE SPRAY	1200

   D. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
   E. SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
   F. BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
   G. CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP ENOUGH SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.
   H. STONE - COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.

4. PREVENT THE GENERATION OF DUST IN PREFERENCE TO APPLYING DUST SUPPRESSION MEASURES. ENSURE IN THE PROJECT SCHEDULE THAT THE AREA OF CLEARED LAND IS MINIMIZED DURING THE DRIER MONTHS OF THE YEAR, WHEN DUST GENERATION IS AT ITS GREATEST.

5. THE SOIL SHALL BE MAINTAINED IN A SUFFICIENTLY DAMP CONDITION TO PREVENT LOOSE GRAINS OF SOIL FROM BECOMING DISLODGED. THE SOIL SHALL BE COMPLETELY CRUSTED OVER BY APPLICATION OF WATER OR COMPLETELY COVERED WITH CLEAN GRAVEL OR TREATED WITH AN APPROVED DUST SUPPRESSANT.

6. PAVE AND WATER HAUL ROADS. THE FREQUENCY OF WATERING WILL BE DETERMINED BY WEATHER CONDITIONS AND THE ERODIBILITY OF THE SOIL. IF ADDITIVES IN THE WATER ARE USED TO INCREASE ITS DUST SUPPRESSION PROPERTIES, THE CHEMICAL SHOULD HAVE NO ADVERSE ENVIRONMENTAL IMPACT ON ADJACENT WATER BODIES.

7. WATER AREAS OTHER THAN HAUL ROADS, IF THEY ARE A SOURCE OF DUST.

8. ENSURE THAT SMOOTH SURFACES ARE DEEP RIPPED AND LEFT ROUGH AND CLODDY TO REDUCE THE WIND VELOCITY AT THE SOIL SURFACE.

9. CONSTRUCT WIND FENCES IF THIS IS APPROPRIATE FOR THE SITE, AS A CONTINGENCY MEASURE, IN AREAS THAT DO NOT HAVE ACCESS TO A WATER SUPPLY. WATER STORED ON-SITE SHOULD NEVER BE LESS THAN FIFTY PERCENT OF DISTURBED LAND SURFACE. WHEREVER WATERING IS USED TO SUPPRESS DUST, ENSURE IT DOES NOT CREATE CONTAMINATED RUN-OFF THAT WILL CONTAMINATE SURFACE WATERS.

10. USE BARRIERS WHERE REQUIRED TO PREVENT THE MIGRATION OF SAWDUST OR PARTICULATES FROM SANDING OR SURFACE PREPARATION ACTIVITIES DURING CONSTRUCTION.

11. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

12. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

13. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE EXCEPT THE MINIMUM HEIGHT SHALL BE 4 FEET.

POLLUTION PREVENTION NOTES:

1. OFF SITE SURFACE WATER DISCHARGES, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE GROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE, THE REPORT SHALL INCLUDE THE CAUSE OF DISCHARGE AND CORRECTIVE ACTIONS TAKEN.

2. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO WATER RESOURCES. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.

3. IF CONTAMINATED SOIL/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND WATER RESOURCES SHALL BE CONTACTED.

4. PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.

5. THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMITS SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.

EROSION AND SEDIMENT CONTROLS BMP'S:

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

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES:

1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.WHERE EFFECTIVENESS IS
   C. REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET

8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGRESSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 85 PERCENT UNIFORM GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FORM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
   A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
   B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS.
   C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

NOTE:
THE 1.75 ACRES DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

EPA NOTES:

1. NO CONSTRUCTION MATERIAL SHALL BE DISCHARGED TO WATERS OF THE STATE UNLESS AUTHORIZED BY A SECTION 404 PERMIT AND/OR THE STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE.

2. IT IS THE RESPONSIBLY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS, BEST MANAGEMENT PRACTICES AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B. SEQUENCE OF SOIL DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE KEPT AT THE PROJECT FIELD OFFICE IN ORDER FOR THE PROJECT TO BE CONSIDERED IN COMPLIANCE WITH FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

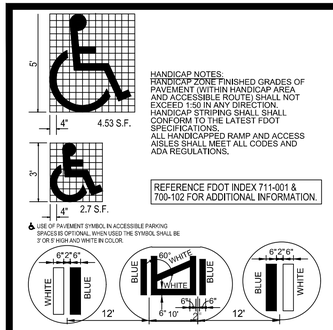
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:
   A. COPY OF THE STORMWATER POLLUTION PREVENTION PLAN WITH THE ORIGINAL CERTIFICATION SIGNATURES.
   B. COPY OF CONTRACTOR'S EROSION CONTROL PLAN.
   C. HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24 HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS.
   D. COMPLETE INSPECTIONS FORM.

4. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE FOLLOWING ITEMS TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN ORDER FOR THE NPDES PERMIT TO BE PROCESSED.
   A. FDEP FORM 62-621.300(4)(b) - NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THIS NOTICE OF INTENT SHALL BE SIGNED BY THE CONTRACTOR.
   B. THE CONTRACTOR IS REQUIRED TO SUBMIT A COPY OF THIS LOG ALONG WITH A NOTICE OF TERMINATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION UPON THE COMPLETION OF CONSTRUCTION.
   C. CONTRACTOR IS REQUIRED TO RETAIN ALL RECORDS FOR A PERIOD OF NO LESS THAN 3 YEARS FOLLOWING THE NOTICE OF TERMINATION

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE NOI TO FDEP NO LESS THAN 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROOF OF MAIL TO THE PROJECT ADMINISTRATOR.

6. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.

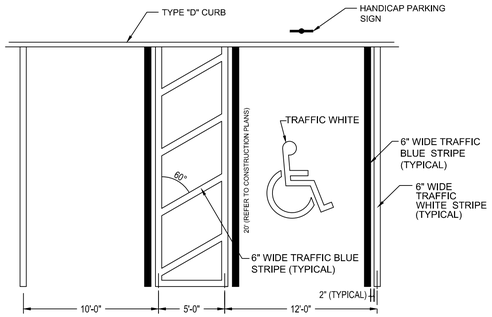
7.

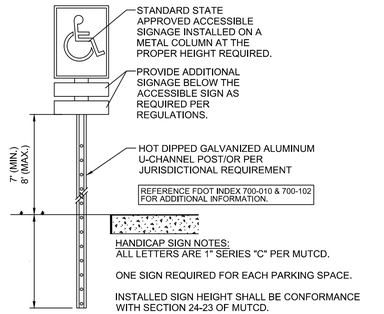


HANDICAP NOTES:
HANDICAP ZONE FINISHED GRADES OF PAVEMENT (WITHIN HANDICAP AREA AND ACCESSIBLE ROUTE) SHALL NOT EXCEED 1:50 IN ANY DIRECTION.
HANDICAP STRIPING SHALL SHALL CONFORM TO THE LATEST FDOT SPECIFICATIONS.
ALL HANDICAPPED RAMP AND ACCESS AISLES SHALL MEET ALL CODES AND ADA REGULATIONS.

REFERENCE FDOT INDEX 711-001 & 700-102 FOR ADDITIONAL INFORMATION.

♿ USE OF PAVEMENT SYMBOL IN ACCESSIBLE PARKING SPACES IS OPTIONAL. WHEN USED THE SYMBOL SHALL BE 3' OR 5' HIGH AND WHITE IN COLOR.





HANDICAP SIGN NOTES:
ALL LETTERS ARE 1" SERIES "C" PER MUTCD.

ONE SIGN REQUIRED FOR EACH PARKING SPACE.

INSTALLED SIGN HEIGHT SHALL BE CONFORMANCE WITH SECTION 24-23 OF MUTCD.

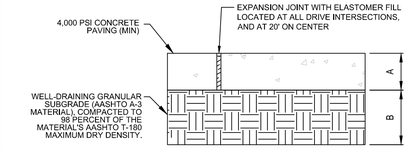
SIGN MAY BE MOUNTED ON BUILDING OR WALL AT PROPER HEIGHT, IF NECESSARY, AND ALIGNED WITHIN 12" OF CENTER OF HANDICAP PARKING SPACE.

1 HANDICAP STRIPING AND BOLLARD NTS
CONCRETE 28 DAY STRENGTH SHALL BE 3,000 PSI (MIN)

MINIMUM CONCRETE PAVEMENT THICKNESS*

CONCRETE SECTION	DUMPSTER PAD
MIN THICKNESS (A)	6"
STABILIZED SUBGRADE (B)	12" FDOT TYPE B, LBR MINIMUM = 40
MAXIMUM CONTROL JOINT SPACING	12' X 12'
RECOMMENDED SAW CUT DEPTH (MIN)	2.00"

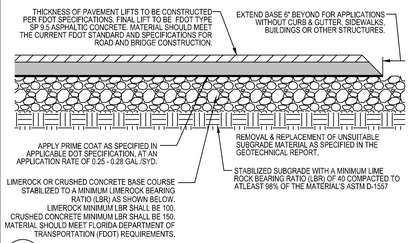
*REFER TO GEOTEHNICAL REPORT



2 CONCRETE PAVING SECTION NTS

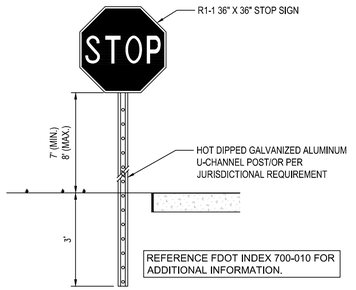
PAVEMENT THICKNESS (MINIMUM)

	LAYER COMPONENT		
	SURFACE COURSE	BASE COURSE	STABILIZED SUBGRADE
STANDARD ASPHALT	1.5"	6.0"	12.0"
HEAVY DUTY ASPHALT	2.0"	8.0"	12.0"



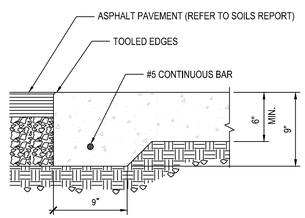
LIMEROCK MINIMUM LBR SHALL BE 100.
CRUSHED CONCRETE MINIMUM LBR SHALL BE 150.
MATERIAL SHOULD MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) REQUIREMENTS.

3 ASPHALT PAVING SECTION NTS



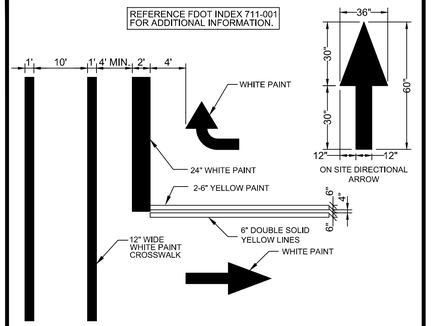
REFERENCE FDOT INDEX 700-010 FOR ADDITIONAL INFORMATION.

4 SITE SIGNAGE/POST NTS

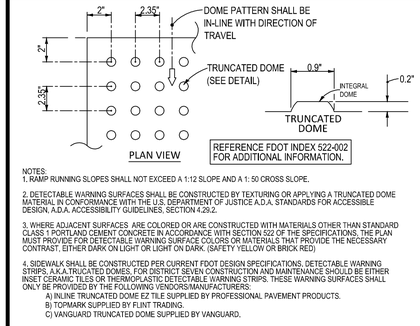


NOTES:
A. CONTRACTOR SHALL REFER TO THE GEOMETRY AND GRADING PLANS FOR SPECIFICATIONS ON PAVEMENT SLOPE, LINEAR DIMENSIONS, AND CURB TEXT.
B. ALL PAVEMENT SECTION (i.e. ASPHALT, BASE AND SUB BASE) MUST BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER ON RECORD AND ALL PAVEMENT REQUIREMENTS FROM THE LOCAL JURISDICTION.

5 CONCRETE APRON NTS
CONCRETE 28 DAY STRENGTH SHALL BE 4,000 PSI (MIN)



6 TYPICAL PAVEMENT MARKINGS NTS



REFERENCE FDOT INDEX 522-002 FOR ADDITIONAL INFORMATION.

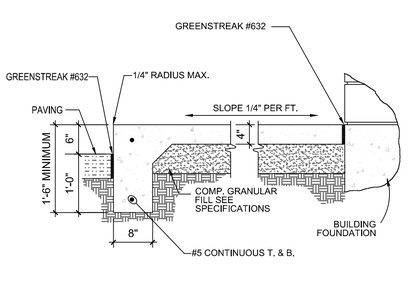
NOTES:
1. RAMP RUNNING SLOPES SHALL NOT EXCEED A 1:12 SLOPE AND A 1: 50 CROSS SLOPE.

2. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING OR APPLYING A TRUNCATED DOME MATERIAL IN CONFORMANCE WITH THE U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, A.D.A. ACCESSIBILITY GUIDELINES, SECTION 4.29.2.

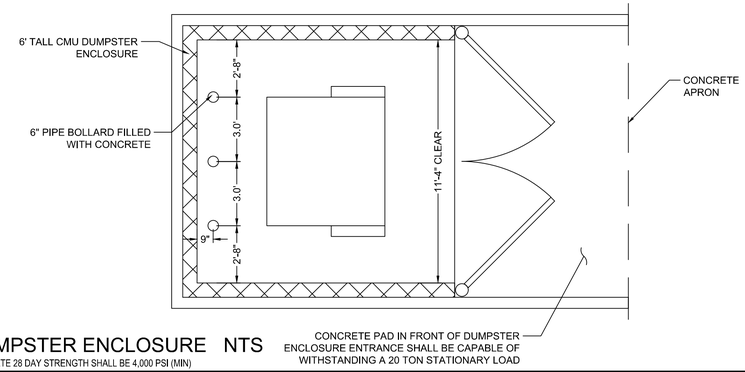
3. WHERE ADJACENT SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS 1 PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS, THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK ON LIGHT OR LIGHT ON DARK. (SAFETY YELLOW OR BRICK RED)

4. SIDEWALK SHALL BE CONSTRUCTED PER CURRENT FDOT DESIGN SPECIFICATIONS. DETECTABLE WARNING STRIPS, A.K.A.TRUCATED DOMES, FOR DISTRICT SEVEN CONSTRUCTION AND MAINTENANCE SHOULD BE EITHER INSET CERAMIC TILES OR THERMOPLASTIC DETECTABLE WARNING STRIPS. THESE WARNING SURFACES SHALL ONLY BE PROVIDED BY THE FOLLOWING VENDORS/MANUFACTURERS:
A) INLINE TRUNCATED DOME EZ TILE SUPPLIED BY PROFESSIONAL PAVEMENT PRODUCTS.
B) TOPMARK SUPPLIED BY FLINT TRADING.
C) VANGUARD TRUNCATED DOME SUPPLIED BY VANGUARD.

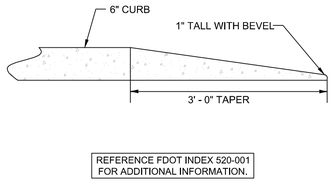
7 TRUNCATED DOME NTS



8 MONOLITHIC CURB & SIDEWALK NTS
CONCRETE 28 DAY STRENGTH SHALL BE 3,000 PSI (MIN)

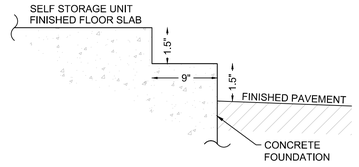


9 DUMPSTER ENCLOSURE NTS
CONCRETE 28 DAY STRENGTH SHALL BE 4,000 PSI (MIN)

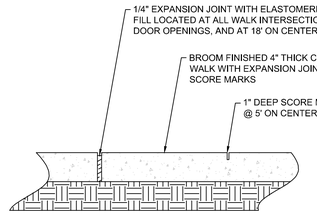


REFERENCE FDOT INDEX 520-001 FOR ADDITIONAL INFORMATION.

10 6" VERTICAL CURB TAPER NTS
CONCRETE 28 DAY STRENGTH SHALL BE 3,000 PSI (MIN)



11 PAVEMENT AT BUILDING NTS



NOTES:
EXPANSION JOINTS SHALL BE PROVIDED AT ALL CONCRETE WALK INTERSECTIONS, AT DOOR OPENINGS, AND AT 12' ON-CENTER (MAX.)

12 CONCRETE WALK NTS
CONCRETE 28 DAY STRENGTH SHALL BE 3,000 PSI (MIN)

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO.	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S INITIAL SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E. LICENSE NO. 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE N.T.S.
SHEET D1.0
SITE PLAN DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

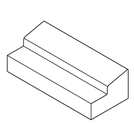
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

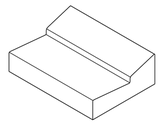
GENERAL NOTES:

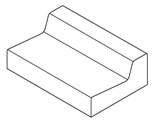
1. For curb, gutter and curb & gutter provide ½" – ¼" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.
2. Locate expansion joints for curb, gutter and curb & gutter in accordance with Specification 520.

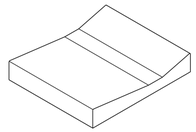
TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Concrete Curb and Gutter
3	Curb and Gutter Joints and Endings, Concrete Bumper Guard, and Asphaltic Concrete Curb

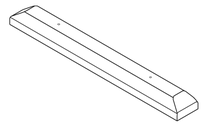

TYPE A


TYPE E

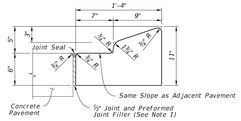

TYPE F

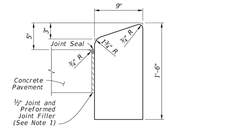

SHOULDER GUTTER

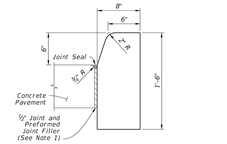
TYPE A, TYPE E, TYPE F, AND SHOULDER GUTTER
(Other Types Similar)


CONCRETE BUMPER GUARD

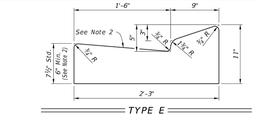
LAST REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/21		FY 2024-25 STANDARD PLANS	CURB AND GUTTER	520-001	1 of 3

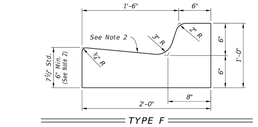

TYPE A

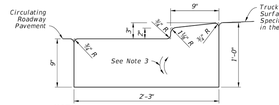

TYPE B

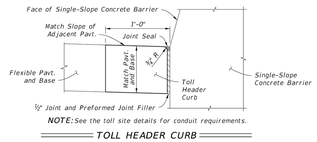

TYPE D

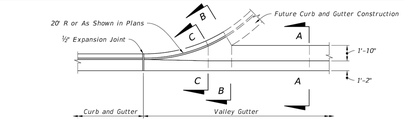
NOTES:
1. For Type A, Type B, and Type D Curb: Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 3.
2. For Type E, Type F, Drop Curb, and Valley Gutter: When used on high side of roadways, match the cross slope of the gutter to the cross slope of the adjacent pavement. The thickness of the lip is 6", unless otherwise shown on Plans.
3. For Type RA, rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.
4. For details depicting usage of Type A Curb adjacent to flexible pavement see Sheet 3.

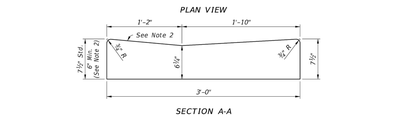

TYPE E

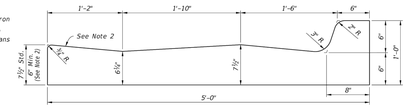

TYPE F

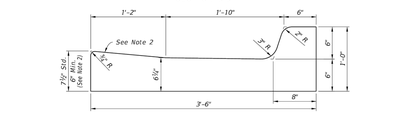

TYPE RA

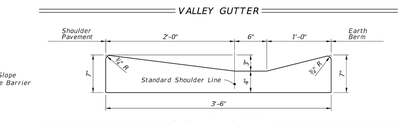

TOLL HEADER CURB


CONCRETE CURB AND GUTTER

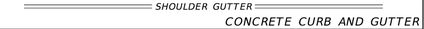

PLAN VIEW


SECTION A-A

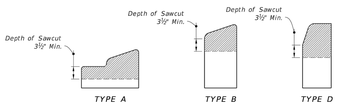

SECTION B-B

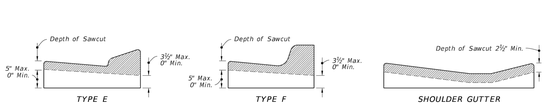

SECTION C-C

VALLEY GUTTER


SHOULDER GUTTER

LAST REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/21		FY 2024-25 STANDARD PLANS	CURB AND GUTTER	520-001	2 of 3

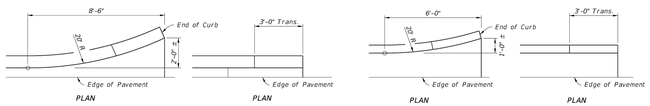

TYPE A / TYPE B / TYPE D

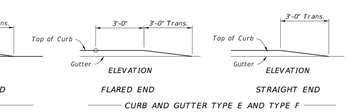

TYPE E / TYPE F / SHOULDER GUTTER

CONTRACTION JOINTS IN CURB

NOTE: Sawcuts should be avoided within valley gutter and within curb and gutter endings.

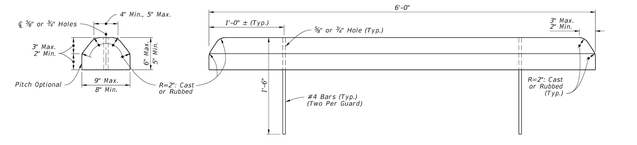
CONTRACTION JOINTS IN CURB & GUTTER

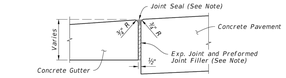

CURB TYPE A

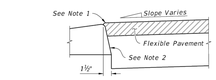

CURB AND GUTTER TYPE E AND TYPE F

NOTE: Ends of Type B and D Curb transition from full to zero heights in 3 ft.

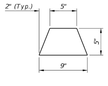
CURB AND CURB & GUTTER ENDINGS


CONCRETE BUMPER GUARD


EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

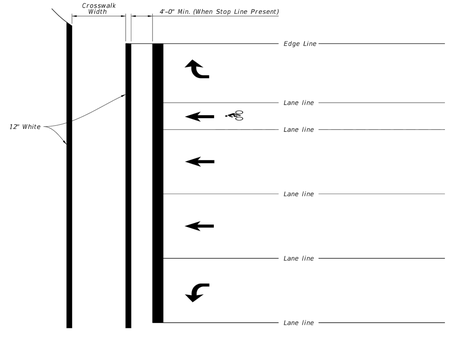

CURB AND GUTTER TYPE A ADJACENT TO FLEXIBLE PAVEMENT

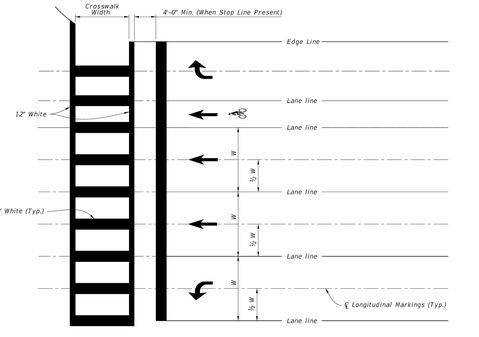
NOTES:
1. Surface on Low Side of Pavement to be ½" Above Lip of Gutter. Surface on High Side to be Flush With Lip of Curb or Curb & Gutter.
2. Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.


ASPHALTIC CONCRETE CURB

CURB AND GUTTER JOINTS AND ENDINGS, CONCRETE BUMPER GUARD, AND ASPHALTIC CONCRETE CURB

LAST REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/21		FY 2024-25 STANDARD PLANS	CURB AND GUTTER	520-001	3 of 3


STANDARD CROSSWALK DETAILS


SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:
1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

LAST REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/21		FY 2024-25 STANDARD PLANS	PAVEMENT MARKINGS	711-001	9 of 13

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. NUMBER: 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE N.T.S.
SHEET D1.1

FDOT DETAILS

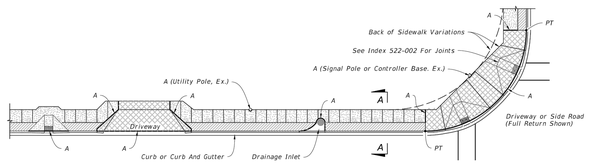
Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

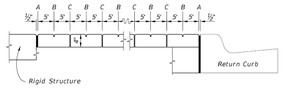
GENERAL NOTES:

1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
3. For Driveways see Index 522-003.
4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than ½".
5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)

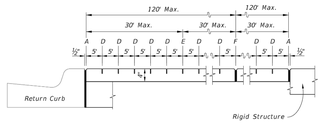


PLAN

SIDEWALK WITH UTILITY STRIP



OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A- ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B- ⅛" Dummy Joints, Tooled

C- ⅛" Formed Open Joints

D- ¾" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E- ¾" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

F- ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

G- Cold Joint With Bond Breaker, Tooled

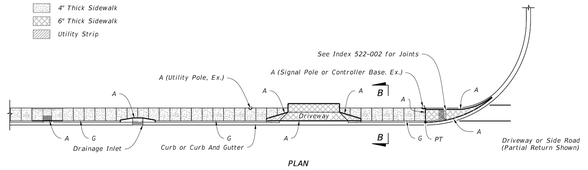
SIDEWALK JOINTS

LEGEND:

4" Thick Sidewalk

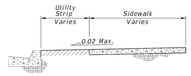
6" Thick Sidewalk

Utility Strip

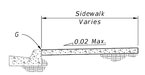


PLAN

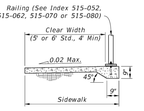
SIDEWALK WITHOUT UTILITY STRIP



SECTION A-A



SECTION B-B



Varies Based on Railing Used

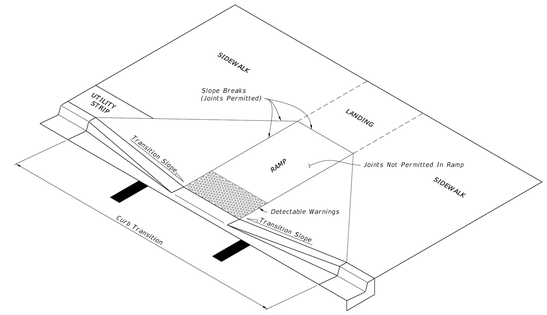
RAILING DETAIL

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	CONCRETE SIDEWALK	INDEX	SHEET
11/01/18					522-001	1 of 2

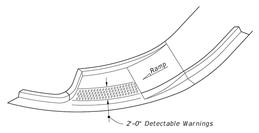
GENERAL NOTES:

1. Cross Slopes and Grades:
   - A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
   - B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
   - C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
   - D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
2. Curb, Curb and Gutter and/or Sidewalk:
   - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
   - B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
   - C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
3. Curb Ramp Alpha-Identification:
   - A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
   - B. Alpha-identifications CR-I and CR-J are intentionally omitted.
4. Detectable Warnings:
   - A. Install detectable warnings in accordance with Specification 527.
   - B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
   - C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp, otherwise, the truncated domes are not required to be aligned.

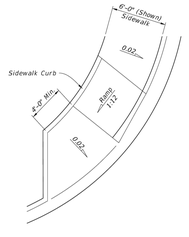


CURB RAMP NOMENCLATURE

LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/21					522-002	1 of 7

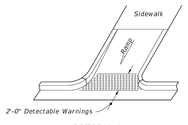


ISOMETRIC VIEW

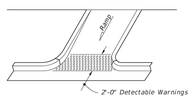


PLAN VIEW

CR-D

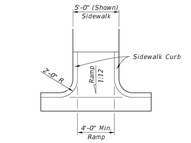


OPTION A



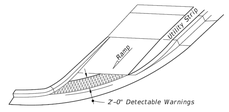
OPTION B

ISOMETRIC VIEW

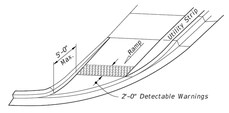


PLAN VIEW

CR-E

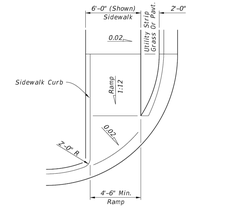


OPTION A



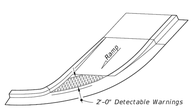
OPTION B

ISOMETRIC VIEW

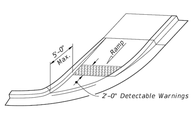


PLAN VIEW

CR-F

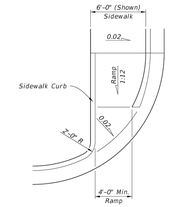


OPTION A



OPTION B

ISOMETRIC VIEW

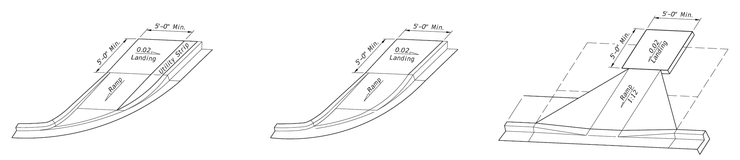


PLAN VIEW

CR-G

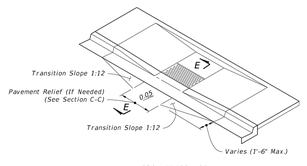
SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/21					522-002	4 of 7



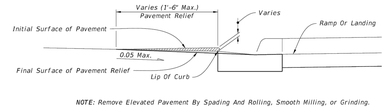
LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS

(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)



ISOMETRIC VIEW

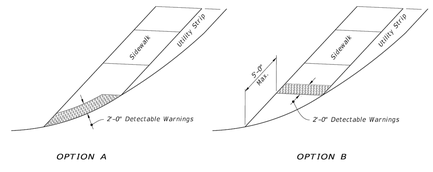
(CR-C Shown, Other Similar)



NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION E-E

PAVEMENT RELIEF DETAILS



OPTION A

OPTION B

DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS

CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/20					522-002	6 of 7

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE AT OSCEOLA POLK LINE RD DAVENPORT, FL 33896 POLK COUNTY

NO:	DATE:	REVISION ISSUE:	BY:

ENGINEER'S NAME: JEREMY R. ANDERSON
LICENSE No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E. P.E. No. 71636

PROJECT # 223.072

DATE 03/03/2026

SCALE N.T.S.

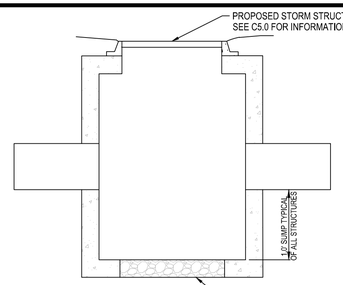
SHEET D1.2

FDOT DETAILS

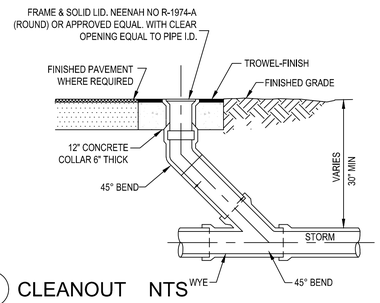
Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

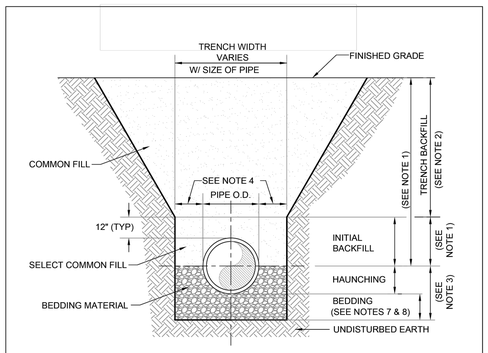
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



1 STORM STRUCTURE WEEP HOLE NTS

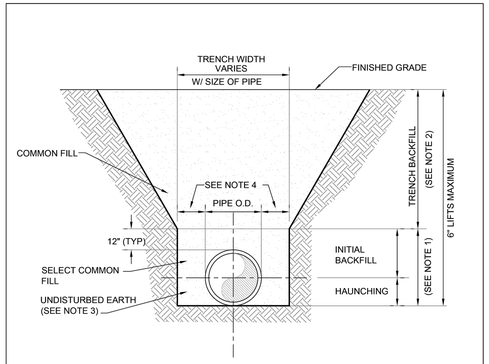


2 CLEANOUT NTS



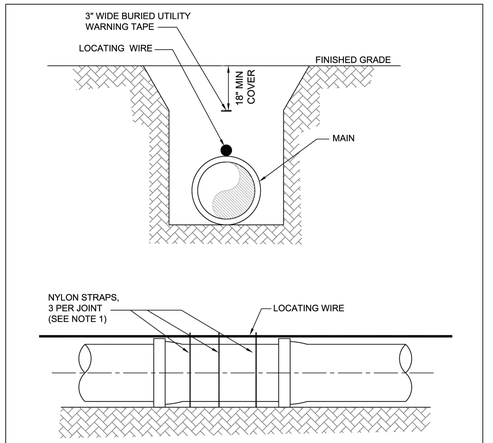
NOTES:
1. SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
2. TRENCH BACKFILL/BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (18" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. PCU SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

BEDDING AND TRENCHING TYPE A	FIGURE GR-01
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



NOTES:
1. SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
2. TRENCH BACKFILL/BACKFILL COMPACTION: SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY PCU.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

BEDDING AND TRENCHING TYPE B	FIGURE GR-02
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



NOTES:
1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (14 GAUGE SINGLE STRAND COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE SECURED TO THE TOP AND ON THE CENTERLINE OF THE PIPE WITH NYLON STRAPS THAT ARE SLIPPED ON THE PIPE PRIOR TO THE INSTALLATION OF EACH PIPE SECTION, AND TIGHTENED OVER THE WIRE AFTER INSTALLATION.
2. LOCATING WIRE SHALL TERMINATE AS INDICATED BY FIGURES GR-07 AND GR-12.
3. ALL CONNECTIONS SHALL BE MADE USING WATER-PROOF CONNECTORS.

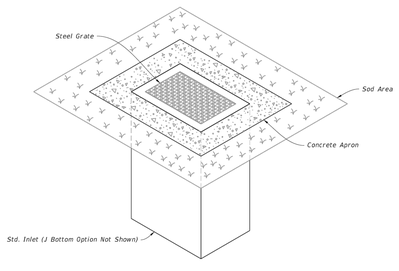
PIPE LOCATING WIRE	FIGURE GR-14-1
POLK COUNTY UTILITIES, FLORIDA	SEPTEMBER, 2014

GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. When inlet is placed in areas subject to bicycle traffic, install filler bar when clearance or gap is greater than ⅜" as shown in Index 425-031.
3. These inlets may be used with Alternate B structure bottoms, Index 425-010.
4. Chamfer all exposed edges and corners ¾" chamfer or tooled to ½" radius.
5. See Index for supplemental details.
6. Reinforcing bars are Grade 60 with 2" minimum cover unless otherwise noted. Cut or bend bars to provide 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening as shown.
7. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.
8. Quantities are for informational and estimating purposes only.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type F - Dimensional, Reinforcing, and Grate Details
3	Type G - Dimensional, Reinforcing, and Grate Details
4	Concrete Apron and Sodded Area Details



DITCH BOTTOM INLET TYPE F
(Type G Similar, Pipe Connection Not Shown)

8/28/2023 4:27:19 PM

LAST REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES F AND G	INDEX	SHEET
11/01/20				425-053	1 of 4

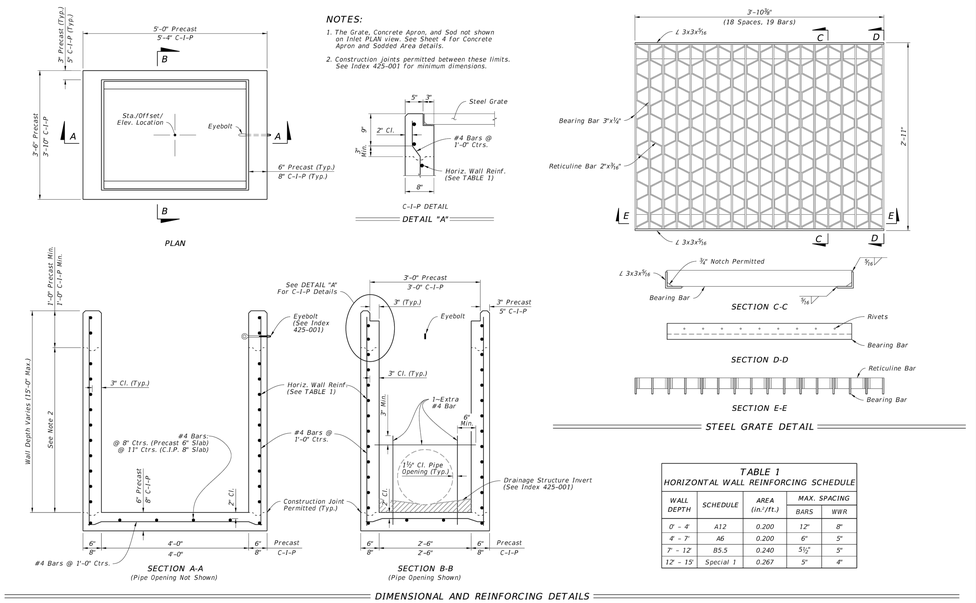


TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' - 4'	A12	0.200	12"	8"
4' - 7'	A6	0.200	6"	5"
7' - 12'	B5.5	0.240	5½"	5"
12' - 15'	Special 1	0.267	5"	4"

DIMENSIONAL AND REINFORCING DETAILS

TYPE F - DIMENSIONAL, REINFORCING, AND GRATE DETAILS

8/28/2023 4:27:38 PM

LAST REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES F AND G	INDEX	SHEET
11/01/20				425-053	2 of 4

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

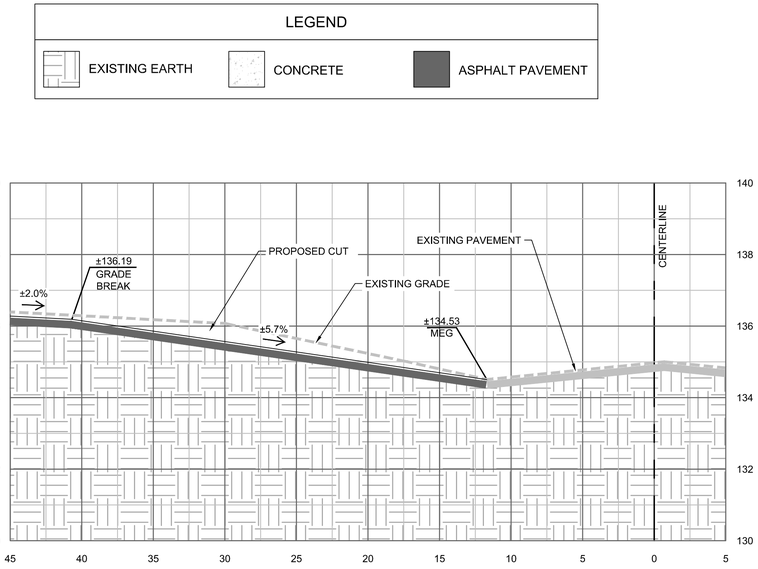
ENGINEER'S NAME & SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. No. 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE N.T.S.
SHEET D2.0
GRADING DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

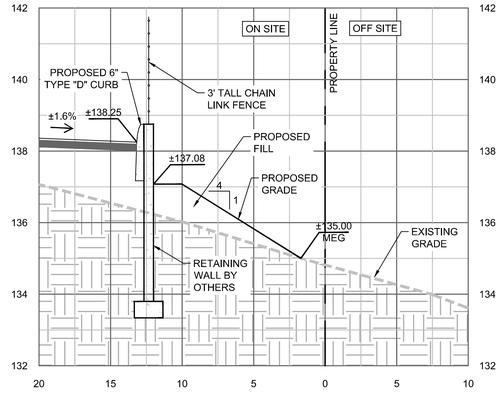
This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



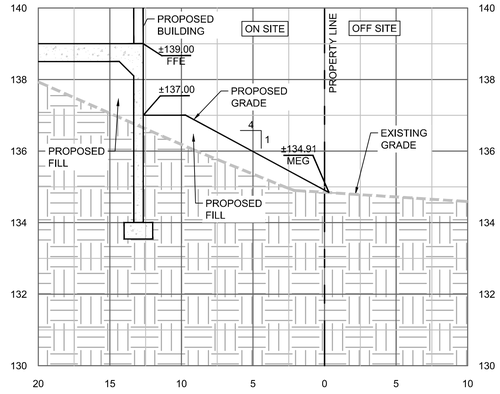
PROFILE A-A (DRIVEWAY)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



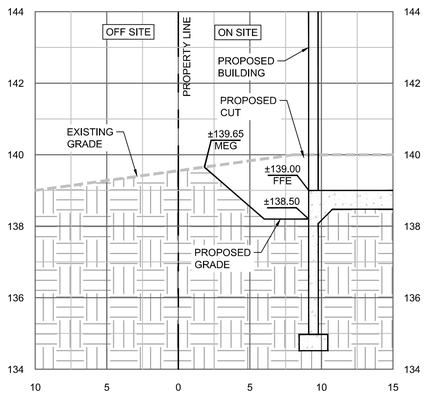
PROFILE B-B (RETAINING WALL)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



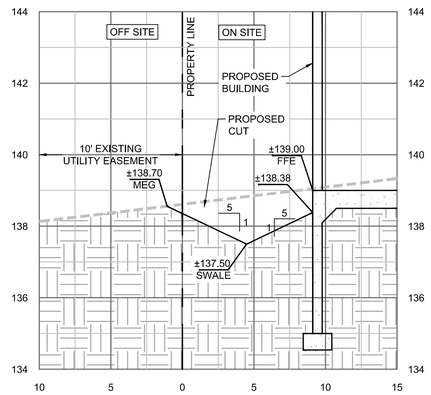
PROFILE C-C (NORTH OF BUILDING)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



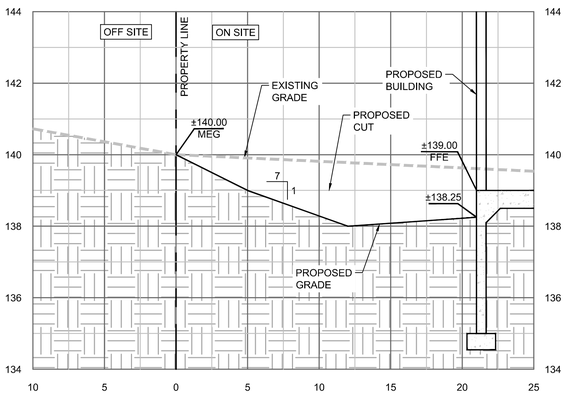
PROFILE D-D (WEST OF BUILDING)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



PROFILE E-E (WEST OF BUILDING)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM



PROFILE F-F (SOUTH OF BUILDING)

SCALE: 1" IS 2' (VERTICAL) 1" IS 5' (HORIZONTAL)
NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF
AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

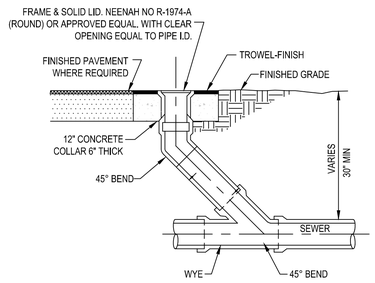
ENGINEER'S NAME AND SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
JEREMY R. ANDERSON, P.E.
P.E. NUMBER: 71636

PROJECT # 223.072
DATE 03/03/2026
SHEET D2.1
SCALE N.T.S.
PROFILES

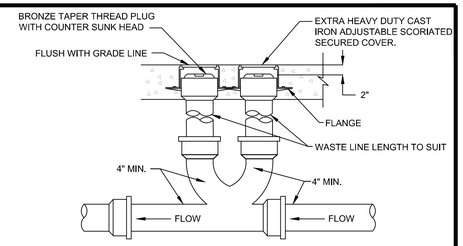
Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

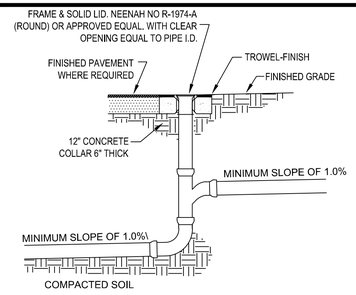


1 CLEANOUT NTS

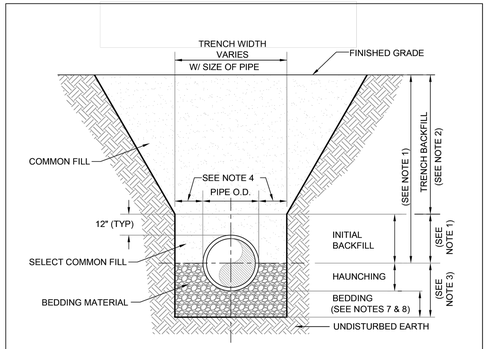


NOTES:
1. CLEAN-OUT SHALL BE TRAFFIC RATED.
2. ECO-1 SHALL BE INSTALLED WITHIN 5'-0" OF THE BUILDING EXTERIOR.

2 TWO-WAY CLEANOUT NTS

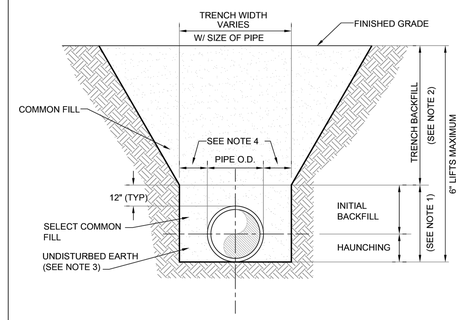


3 DROP CLEANOUT NTS



NOTES:
1. SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
2. TRENCH BACKFILL/BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (18" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. PCU SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

BEDDING AND TRENCHING TYPE A	FIGURE GR-01
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



NOTES:
1. SELECT COMMON FILL UNDER & WITHIN 6 FEET OF THE EDGE OF ANY PAVED SURFACE SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE, THEN 12" COMPACTED LIFTS THEREAFTER, AND COMPACTED TO 100% OF MAX DENSITY PER AASHTO T-99. BACKFILL IN AREAS OUTSIDE THE ROADWAY SHALL BE PLACED IN 6" COMPACTED LIFTS TO TOP OF PIPE THEN 12" COMPACTED LIFTS THEREAFTER AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
2. TRENCH BACKFILL/BACKFILL COMPACTION: SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY PCU.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE WORK SITE. SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF POLK COUNTY.

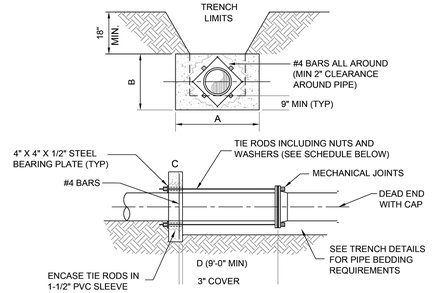
BEDDING AND TRENCHING TYPE B	FIGURE GR-02
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)												
TYPE	D.I.P. PIPE SIZE											
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"
90° BEND OR BRANCH OF TEE	20	29	37	44	51	65	77	89	105	120	132	144
45° BEND	8	12	15	18	21	27	32	37	44	50	55	60
22-1/2° BEND	4	6	7	9	10	13	15	18	21	24	27	29
11-1/4° BEND	2	3	4	5	6	7	8	9	10	12	13	15
PLUG OR CAP	42	59	77	93	108	138	166	194	231	275	328	391
POINT OF CONNECTION WITH HDPE PIPE	40	40	40	40	40	40	40	40	60	60	60	60

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)												
TYPE	PVC OR HDPE PIPE SIZE											
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"
90° BEND OR BRANCH OF TEE	25	37	47	55	64	82	97	112	132	156	172	188
45° BEND	10	15	19	23	27	34	40	47	55	65	72	78
22-1/2° BEND	5	8	9	12	13	17	19	23	27	32	35	38
11-1/4° BEND	3	4	5	7	8	9	10	12	13	16	17	19
PLUG OR CAP	53	74	97	117	135	173	208	243	289	344	410	488
POINT OF CONNECTION WITH HDPE PIPE	40	40	40	40	40	40	40	60	60	80	80	80

NOTES:
1. FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. ALL LINE VALVES AND THROUGH RUN OF TEES SHALL HAVE MJ RESTRAINTS.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
   WORKING PRESSURE: 150 PSI
   SOIL DESIGNATION: SM (SAND SILT)
   LAYING CONDITIONS: 3
6. THE ENGINEER SHALL VERIFY THESE MINIMUM DESIGN ASSUMPTIONS AND INCREASE LENGTHS WITH THE APPROVAL OF PCU.
7. DI PIPE WRAPPED WITH OR ENCASED IN POLYETHYLENE SHALL BE RESTRAINED SIMILAR TO PVC PIPE.

RESTRAINED PIPE TABLE	FIGURE GR-04
POLK COUNTY UTILITIES, FLORIDA	OCTOBER, 2015



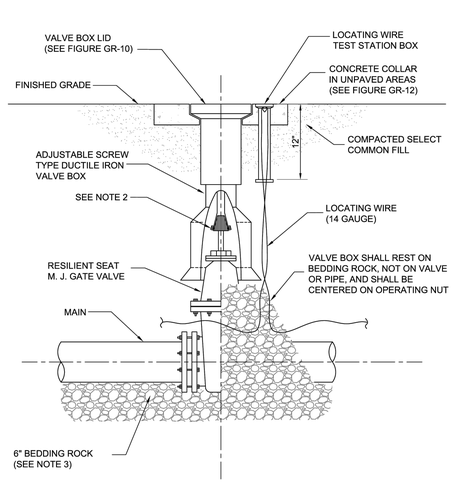
NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 PSI.
7. A GATE VALVE OF A SIZE MATCHING MAIN SIZE SHALL BE INSTALLED PRIOR TO THE END CAP ON ALL MAINS NOT TERMINATING WITHIN A CUL-DE-SAC.

SCHEDULE OF DIMENSIONS AND MATERIALS

PIPE SIZE (INCHES)	DIMENSIONS (FT.)				TIE RODS REQ'D	
	A	B	C	D	DIA.	NO.
4	2.0	2.0	1.0		3/4	2
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.5	3.0	1.0		3/4	2
12	5.0	3.0	1.0		3/4	2
16	6.0	4.0	1.5		3/4	4
20	8.0	5.0	1.5		3/4	6
24	9.0	6.0	1.5		3/4	8
30	11.5	7.5	2.0		1	12
36	13.5	9.0	2.0		1	15

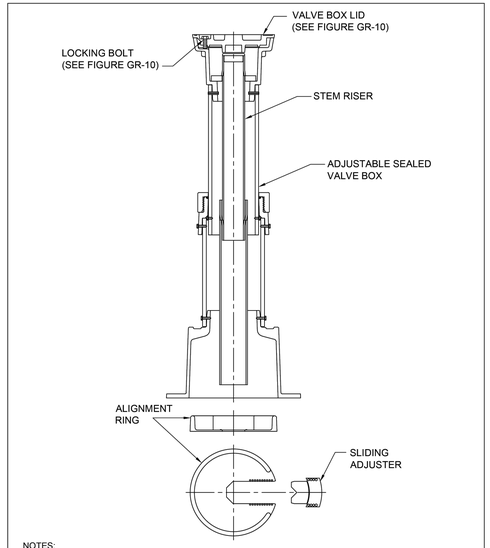
NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 2000 LBS/SF SOIL RESTRAINT BEARING.

THRUST COLLAR	FIGURE GR-05
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



NOTES:
1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION IN PAVED AREAS.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE.
3. BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. WIRE SHALL TERMINATE AT THE TOP OF THE TEST STATION BOX WITH 12" OF COILED EXCESS LENGTH.
5. REFER TO FIGURE GR-11 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.

GATE VALVE AND BOX (SHALLOW)	FIGURE GR-07
POLK COUNTY UTILITIES, FLORIDA	SEPTEMBER, 2014



NOTES:
1. REQUIRED ON ALL MAINS WHENEVER THE TOP OF THE VALVE NUT IS 6 FEET OR DEEPER BELOW THE FINISHED SURFACE ELEVATION THAT IS DIRECTLY ABOVE THE VALVE LOCATION.

VALVE BOX ASSEMBLY (DEEP)	FIGURE GR-11
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO.	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & #
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. LICENSE NO. 71636

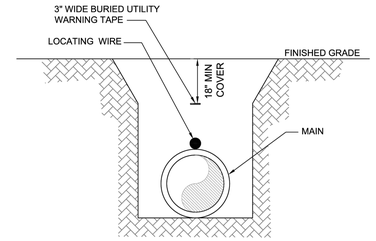
PROJECT # 223.072
DATE 03/03/2026
SHEET D3.0
SCALE N.T.S.

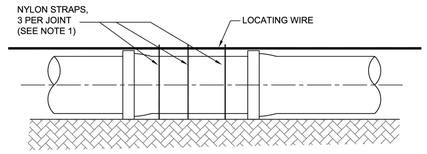
UTILITY DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.





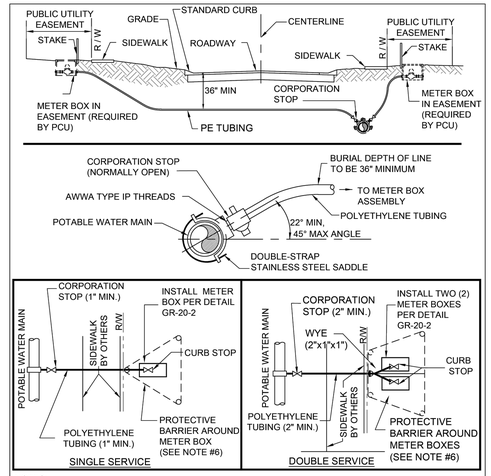
NOTES:
1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (14 GAUGE SINGLE STRAND COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE SECURED TO THE TOP AND ON THE CENTERLINE OF THE PIPE WITH NYLON STRAPS THAT ARE SLIPPED ON THE PIPE PRIOR TO THE INSTALLATION OF EACH PIPE SECTION, AND TIGHTENED OVER THE WIRE AFTER INSTALLATION.
2. LOCATING WIRE SHALL TERMINATE AS INDICATED BY FIGURES GR-07 AND GR-12.
3. ALL CONNECTIONS SHALL BE MADE USING WATER-PROOF CONNECTORS.

PIPE LOCATING WIRE	FIGURE GR-14-1
POLK COUNTY UTILITIES, FLORIDA	SEPTEMBER, 2014

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								ACCEPTABLE VARIANCES
	POTABLE WATER (PW)		RECLAIMED WATER (RW)		SAN SEWER (SS) GRAVITY & FM)		STORM SEWER		
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	
POTABLE WATER	3'	12"	3'	12"	6'	12"	3'	12"	REFER TO GENERAL NOTE #4
RECLAIMED WATER	3'	12"	3'	12"	3'	12"	3'	12"	
SANITARY SEWER	6'	12"	3'	12"	3'	12"	3'	12"	

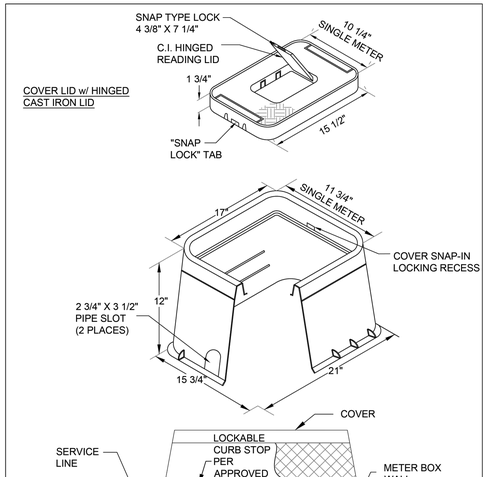
GENERAL NOTES:
1. HORIZONTAL AND VERTICAL SEPARATION SHALL BE IN ACCORDANCE WITH CH. 62-555.314 F.A.C..
2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS RECLAIMED WATER AS DEFINED BY F.A.C. 62-610. RAW WATER AND OTHER TYPES OF RECLAIMED WATER SHALL BE CONSIDERED RAW SEWAGE AND SEPARATION LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. ACCEPTABLE VARIANCES:
   A. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE FOR NEW INSTALLATIONS OF PW AND SS, THE PIPES WILL BE INSTALLED IN SEPARATE TRENCHES AND THE BOTTOM OF THE PW MAIN WILL BE 12" HIGHER THAN THE TOP OF THE SS.
   B. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE FOR NEW SS AND A NEW OR EXISTING PW MAIN, THE SS WILL BE UPGRADED TO A DR OF 18.
   C. WHERE INSTALLATION OF A NEW PW MAIN IS IN CONFLICT WITH EXISTING SS, THE FOLLOWING SHALL BE MAINTAINED:
      1. VERTICAL CONFLICT: DEFLECT NEW PW MAIN 12" ABOVE THE EXISTING SS WITH SUFFICIENT COVER FOR THE PW OR 12" BELOW THE EXISTING SS. WHERE DEFLECTION IS NOT POSSIBLE OR MINIMUM COVER NOT MET, THE PW MAIN SHALL BE UPGRADED TO DIP AND CENTERED AT CROSSING.
      2. HORIZONTAL CONFLICT: PW MAIN SHALL BE INSTALLED 18" HIGHER THAN THE EXISTING SS WITH SUFFICIENT COVER OR THE PW WILL BE DIP.
   D. SEPARATION REQUIREMENTS BETWEEN PW AND STORM SEWER ARE THE SAME AS WITH PW AND SS. SPECIAL SUPPORT MAY BE REQUIRED.
   E. WHERE VERTICAL AND HORIZONTAL SEPARATIONS ARE NOT ATTAINABLE FOR PW AND FM, THE FOLLOWING SHALL BE MAINTAINED:
      1. FM UPGRADED TO DR 14 (12" DIA AND UNDER) AND DR 18 (14" DIA AND OVER). WHERE FM IS EXISTING, PW SHALL BE UPGRADED TO DIP.
      2. STAGGER THE LOCATION OF JOINTS FOR EACH PIPE.
5. NO POTABLE WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

MINIMUM SEPARATION REQUIREMENTS	FIGURE GR-16-1
POLK COUNTY UTILITIES, FLORIDA	JULY, 2018



NOTES:
1. DRAWING NOT TO SCALE.
2. METER BOXES FURNISHED BY CONTRACTOR IN ACCORDANCE WITH FIGURE GR-20-2.
3. SEPARATION BETWEEN CURB AND METER BOX AND BETWEEN METER BOX AND SIDEWALK SHALL BE 12 INCHES MINIMUM WITH A 18 INCHES MAXIMUM.
4. CONTRACTOR TO LOCATE CURB STOP BY PLACING A STAKE (2" X 2" AT 24" ABOVE GROUND) TOP PAINTED WITH THE COLOR OF THE UTILITY SERVICE AND WITH THE LOT NUMBERS IT SERVES.
5. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
6. PROTECTIVE BARRIER TO BE 3-2x4 or 2" POLES w/ WITH ORANGE CONSTRUCTION WARNING FENCE.
7. TUBING SHALL BE BLUE FOR POTABLE WATER AND PURPLE PANTONE 522C FOR RECLAIMED WATER IN COLOR.
8. CONTRACTOR TO INSTALL SERVICE LINE, METER BOX, AND TERMINATE LINE IN BOX WITH CURB STOP EQUIPPED WITH TEMP PLASTIC PLUG AT END.
9. METER BOXES AS DESCRIBED SHALL NOT BE INSTALLED IN DRIVEWAY OR SIDEWALK.

POTABLE WATER AND RECLAIMED WATER SERVICES (TYPICAL)	FIGURE GR-20-1
POLK COUNTY UTILITIES, FLORIDA	AUGUST, 2022



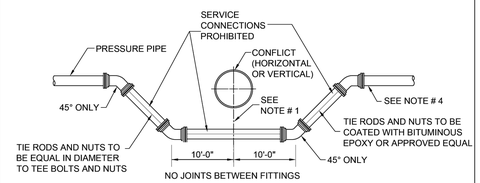
NOTES:
1. METER BOXES AND LIDS SHALL BE BLACK FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER.
2. THE WORDS "RECLAIMED WATER" AND THE FOLLOWING WORDS " DO NOT DRINK" AND "NO BEBER" SHALL BE CLEARLY MOLDED ON THE TOP OF EACH RECLAIMED WATER LID ALONG WITH THE STANDARD INTERNATIONAL SYMBOL " DO NOT DRINK "
3. ALL MATERIALS SHALL BE IN ACCORDANCE WITH APPROVED MATERIAL CHECKLIST.

STANDARD RECTANGULAR METER BOX ASSEMBLY POTABLE WATER AND RECLAIMED WATER	FIGURE GR-20-2
POLK COUNTY UTILITIES, FLORIDA	AUGUST, 2022

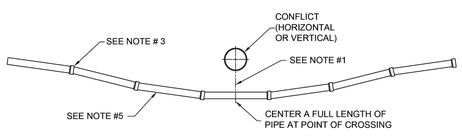
GENERAL NOTES:

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. THE PCU BASE-1 DISPATCH OPERATOR (863-534-7351) SHALL BE NOTIFIED BY THE CONTRACTOR FOR PIPE EMERGENCIES.
3. MAKE TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE; FLUSH OUT NEW WATER MAIN WITH POTABLE WATER (USE "JUMPER" ASSEMBLY WITH A CROSS CONNECTION CONTROL ASSEMBLY TO MAKE TEMPORARY CONNECTIONS TO AN EXISTING WATER SOURCE).
4. ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
5. ALL EXISTING AND NEW PCU VALVES, VALVE BOXES, ARV'S, FIRE HYDRANTS AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES SHALL BE RELOCATED, AS REQUIRED.
6. PCU SHALL BE NOTIFIED AT LEAST FIVE (5) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF ITS FACILITIES.
7. THE CONTRACTOR SHALL IMMEDIATELY CONTACT PCU AND REPAIR ALL DAMAGES TO PCU'S MAINS AND FACILITIES AT THE CONTRACTOR'S EXPENSE. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY PCU, PCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
8. ONLY PCU STAFF SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE PCU INSPECTOR.
9. THE CONTRACTOR SHALL COORDINATE ALL LIFT STATION OPERATION AND SHUT DOWN CONTROL WITH THE PCU INSPECTOR. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING OF WASTEWATER DURING THE INTERRUPTION OF FLOWS AND CONNECTIONS WITH EXISTING WASTEWATER SYSTEMS.
10. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP/FDOH.
11. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE PCU WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UTILITIES STANDARDS AND SPECIFICATIONS MANUAL. THE PLANS DO NOT INCLUDE WORK PERFORMED ON OR FOR UTILITY SYSTEMS OWNED BY OTHERS, UNLESS STATED OTHERWISE ON THE PLANS.
12. DO NOT OPEN ANY VALVES THAT DIRECTLY CONNECTS ANY PROPOSED WATER MAINS TO ANY EXISTING MAINS UNLESS CLEARED BY BOTH FDEP/FDOH & PCU.
13. DURABLE COLORED PLASTIC CURB MARKERS, AS SPECIFIED WITHIN THE APPROPRIATE APPROVED MATERIALS CHECKLIST AND THE APPROPRIATE SECTIONS OF THE MANUAL, SHALL BE SECURELY ATTACHED 6 INCHES FROM THE TOP OF CURB, OR 6 INCHES FROM THE EDGE OF PAVEMENT WHERE CURBING IS NOT PRESENT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SO THAT ALL SERVICES AND VALVES ARE ACCURATELY LOCATED.

GENERAL NOTES	FIGURE GR-22
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



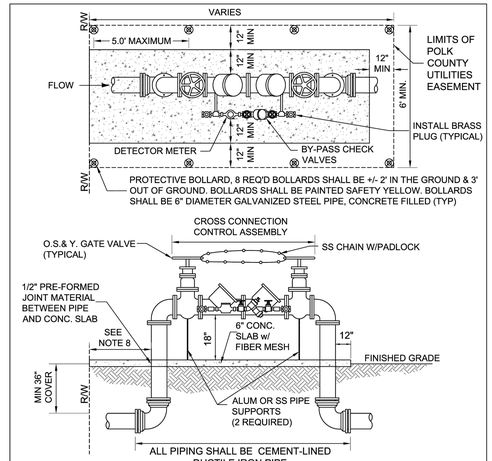
FITTING TYPE
(PVC OR DI PIPE)



DEFLECTION TYPE
(DI PIPE ONLY)

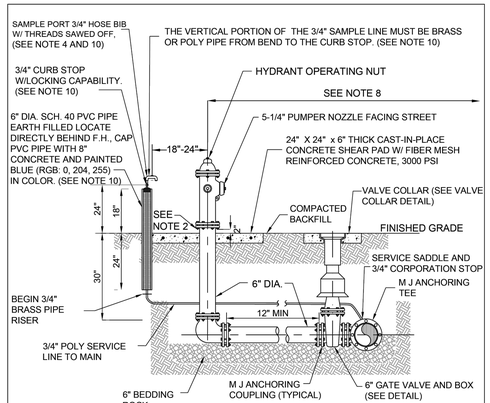
NOTES:
1. FOR SEPARATION, REFER TO FIGURE GR-16.
2. ALL FITTINGS SHALL BE PROVIDED WITH APPROVED MECHANICAL JOINT RESTRAINT.
3. MAXIMUM DEFLECTIONS AND LAYING RADIUS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDATIONS.
4. PIPE SHALL BE RESTRAINED FROM EACH TOP DEFLECTION IN ACCORDANCE WITH FIGURE GR-04.
5. NO SERVICES SHALL BE MADE TO ANY PORTION OF A DEFLECTED PIPE DEEPER THAN 6.0'.

DEFLECTION OF PRESSURE MAINS	FIGURE GR-28
POLK COUNTY UTILITIES, FLORIDA	DECEMBER, 2010



NOTES:
1. RESTRAINED JOINT FITTINGS SHALL BE REQUIRED FOR UNDERGROUND USE.
2. FLANGED FITTINGS SHALL BE REQUIRED.
3. PAINT THE ABOVE GROUND ASSEMBLY, INCLUDING ENTIRE LENGTH OF TIE RODS, AFTER MANUFACTURER'S RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE OR BRASS FITTINGS. PAINT COLOR SHALL BE "INTERNATIONAL ORANGE"
4. PROVIDE PROTECTIVE CONCRETE FILLED 6" PIPE BOLLARDS.
5. AN APPROVED DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE SELECTED IN ACCORDANCE WITH PCU'S "APPROVED CROSS CONNECTION CONTROL ASSEMBLY LIST".
6. SPECIAL FIRE PROTECTION SYSTEMS USING INTERNAL PUMPS, TANKS, ETC. SHALL BE REQUIRED TO USE AN APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY.
7. ALL PIPE, FITTINGS AND APPURTENANCES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
8. ASSEMBLY SHALL BE A MINIMUM 10' FROM EDGE OF PAVEMENT OR BUILDING, AND 4' FROM SIDEWALK OR HEDGE.
9. FULL FACED NEOPRENE GASKETS SHALL BE USED ON ALL FLANGED FITTINGS.

FIRE LINE DOUBLE CHECK DETECTOR ASSEMBLY (4 INCHES TO 12 INCHES)	FIGURE WA-02
POLK COUNTY UTILITIES, FLORIDA	AUGUST, 2018



NOTES:
1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE (DRY BARREL TYPE) UNLESS OTHERWISE APPROVED BY PCU.
2. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE 2".
3. RESTRAINED JOINTS OR ALL-THREAD ROD REQUIRED TO SECURE PIPE, RISER AND VALVE IN THE FIRE HYDRANT ASSEMBLY TO THE MAIN.
4. TOP OF SAMPLE PORT TO BE LOWER THAN FLANGE ON FIRE HYDRANT BONNET.
5. HYDRANT SHALL BE PAINTED 1 COAT THEMEC 69-HIBUILD EPOXOLINE II (4-6DFT) AND ONE COAT 73-COLOR ENDURA SHIELD (3-5DFT); COLOR INTERNATIONAL ORANGE
6. VALVE COLLAR AND HYDRANT SHEAR PAD MAY BE INCORPORATED INTO ONE 6" THICK PAD.
7. THRUST BLOCKS MAY ONLY BE USED WHEN CONNECTION IS TO AN EXISTING WATER MAIN AND IT IS NOT KNOWN IF THERE ARE RESTRAINED JOINTS BOTH WAYS FROM THE CONNECTION.
8. HYDRANT SHALL BE MIN OF 2' FROM EDGE OF SIDEWALK, 5' MIN FROM BACK OF MIAMI CURB AND 10' MIN FROM EDGE OF DRIVEWAY OR TURNOUT.
9. A BLUE REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE INSTALLED 6 INCHES TO THE SIDE OF THE LANE STRIPE WHICH IS CLOSEST TO THE HYDRANT AND IN LINE WITH THE LARGEST PORT.
10. A PRE-MANUFACTURED ONE PIECE SAMPLE STATION MAY BE SUBSTITUTED FOR THE FIELD CONSTRUCTED SAMPLING STATION IN ACCORDANCE WITH THE APPROVED MATERIAL CHECKLIST.

FIRE HYDRANT ASSEMBLY	FIGURE WA-03
POLK COUNTY UTILITIES, FLORIDA	JUNE, 2022

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO.	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME & SEAL
JEREMY R. ANDERSON
LICENSE
No. 71636
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. NUMBER 71636

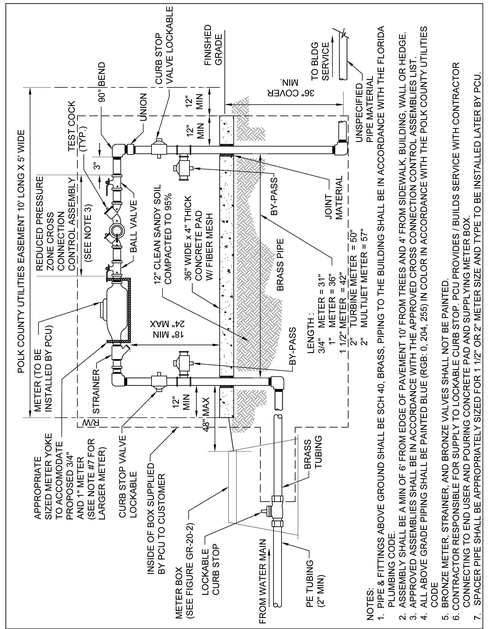
PROJECT # 223.072
DATE 03/03/2026
SHEET D3.1
SCALE N.T.S.

UTILITY DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

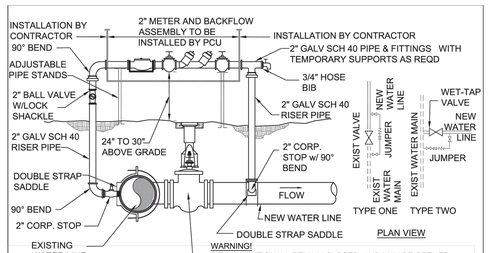
This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



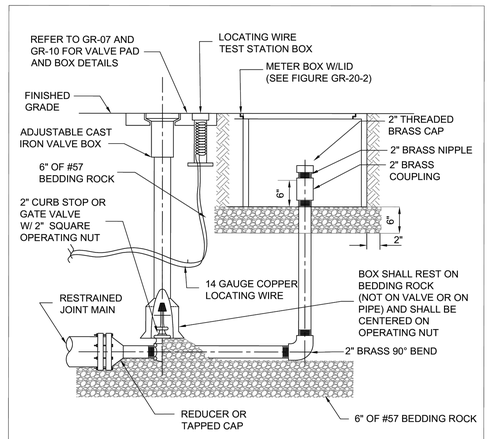
NOTES:
1. PIPE & FITTINGS ABOVE GROUND SHALL BE SCH 40, BRASS. PIPING TO THE BUILDING SHALL BE IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE.
2. ASSEMBLY SHALL BE A MIN OF 6' FROM EDGE OF PAVEMENT 10' FROM TREES AND 4' FROM SIDEWALK, BUILDING, WALL OR HEDGE.
3. APPROVED ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE APPROVED CROSS CONNECTION CONTROL ASSEMBLIES LIST.
4. ALL ABOVE GRADE PIPING SHALL BE PAINTED BLUE (RGB: 0, 204, 255) IN COLOR IN ACCORDANCE WITH THE POLK COUNTY UTILITIES CODE
5. ROTATE METER, STRAINER, AND BRONZE VALVES SHALL NOT BE PAINTED.
6. CONTRACTOR RESPONSIBLE FOR SUPPLY TO LOCKABLE CURB STOP. PCU PROVIDES / BUILDS SERVICE WITH CONTRACTOR CONNECTING TO END USER AND POURING CONCRETE PAD AND SUPPLYING METER BOX.
7. SPACER PIPE SHALL BE APPROPRIATELY SIZED FOR 1 1/2" OR 2" METER SIZE AND TYPE TO BE INSTALLED LATER BY PCU.

METER & REDUCED PRESSURE ZONE CROSS CONNECTION CONTROL ASSEMBLY (UP TO 2 INCHES)	FIGURE WA-05
POLK COUNTY UTILITIES, FLORIDA	JULY, 2022



1. THE ENTIRE JUMPER ASSEMBLY EXCEPT AS NOTED ABOVE SHALL BE INSTALLED BY THE CONTRACTOR.
2. THIS JUMPER CONNECTION IS REQUIRED AT THE PRIMARY POINT OF CONNECTION TO ACTIVE POTABLE WATER MAINS. THE METER, BACKFLOW PREVENTER AND ALL PIPE AND FITTINGS USED FOR THE JUMPER CONNECTION SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION.
3. THE JUMPER CONNECTION SHALL BE USED TO FILL AND FLUSH THE NEW WATER MAIN AND TO PROVIDE WATER FOR TESTING AND BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED.
4. FLUSHING OF NEW WATER MAINS MAY BE DONE VIA THE TIE-IN VALVE ONLY UNDER THE FOLLOWING CONTROLLED CONDITIONS.
   A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF PCU STAFF IN ORDER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
   B. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING AND CLEANING OF NEW MAINS. - THE FLUSHING SHALL BE DONE IN THE PRESENCE OF PCU STAFF. -
5. THE JUMPER CONNECTION SHALL REMAIN OPEN TO MAINTAIN MINIMUM PRESSURE (20psi) IN NEW MAINS AFTER DISINFECTION BUT PRIOR TO HEALTH DEPT CLEARANCE LETTER BEING ISSUED.
6. THE JUMPER CONNECTION MAY NOT BE REMOVED UNTIL FLUSHING, TESTING, AND DISINFECTION OF NEW WATER MAINS IS COMPLETED AND THE SYSTEM CLEARANCE LETTER IS OBTAINED FROM THE POLK COUNTY HEALTH DEPARTMENT.
7. ADEQUATE SUPPORTS, BRACING AND/OR RESTRAINTS SHALL BE PROVIDED AS NEEDED TO RESIST PRESSURE FORCES AND SUPPORT THE ASSEMBLY.
8. THE JUMPER CONNECTION SHALL BE PROTECTED FROM DAMAGE BY INSTALLATION OF A PROTECTIVE WARNING FENCE OR SIMILAR BARRICADE, WHICH SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.
9. UPON RECEIPT OF CLEARANCE FOR USE FROM THE HEALTH DEPARTMENT AND A REQUEST TO TERMINATE CONSTRUCTION SERVICE, PCU WILL REMOVE THE METER AND THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION.
10. CORPORATION STOPS SHALL BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS BY THE CONTRACTOR.

JUMPER CONNECTION (TYPICAL)	FIGURE WA-06
POLK COUNTY UTILITIES, FLORIDA	MARCH, 2012



NOTES:

1. ALL 2" PIPE AND FITTINGS SHALL BE THREADED (NPT) BRASS JOINTS.
2. SCHEDULE 40 PVC PIPE AND FITTINGS MAY BE SUBSTITUTED FOR THE BRASS PIPE AND FITTINGS.

BLOW OFF VALVE STANDARD	FIGURE WA-01-1
POLK COUNTY UTILITIES, FLORIDA	JUNE, 2021

MARBLE CREEK, LLC
448 VIKING DRIVE, SUITE 220
VIRGINIA BEACH, VA 23452

COMMON OAK ENGINEERING
4016 EDGEWATER DRIVE
ORLANDO, FL 32804
(407) 951-5915
CERTIFICATE OF AUTHORIZATION: 32644

SELF STORAGE
AT
OSCEOLA POLK LINE RD
DAVENPORT, FL 33896
POLK COUNTY

NO:	DATE:	REVISION / ISSUE:	BY:

ENGINEER'S NAME AND SEAL
JEREMY R. ANDERSON LICENSE No. 71636 STATE OF FLORIDA PROFESSIONAL ENGINEER
JEREMY R. ANDERSON, P.E.
P.E. NUMBER 71636

PROJECT # 223.072
DATE 03/03/2026
SCALE N.T.S.
SHEET D3.2
UTILITY DETAILS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

This item has been digitally signed and sealed by Jeremy R. Anderson, PE, on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ALTA/NSPS Land Title Survey
Ovation - Lot 7 & Portion of Lot 6
Section 3, Township 26 South, Range 27 East
Polk County, Florida

Legend of Symbols & Abbreviations

●	Found Iron Pipe or Rod	E	Electric Vault
◉	Found Nail & Disk		Light Pole
P.S.M.	Professional Surveyor and Mapper		Power Pole
LB	Licensed Business	S	Storm Manhole
Id.	Identification		Grate Inlet
OR	Official Records	W	Water Valve
(F)	Field Measurement	W	Water Meter
(P)	Plat Reference		Electric Transformer
(D)	Deed Reference		Sign
No.	Number	AC	Air Conditioning Unit
—x—x—	Fence	E	Electric Pull Box
⟵⟶	Gate		Irrigation Control Valve
—OL—OL—	Overhead Utility Lines	S	Sanitary Manhole
—SS—SS—	Underground Sanitary Sewer Pipe		Cleanout
—D—D—	Underground Drainage Pipe		Miscellaneous Feature
	Reclaimed Water Valve	T	Telephone Pull Box
	Yard Drain		Oak

39.42	Back of Curb Elevation
38.92	Edge of Pavement Elevation
+XX.X	Spot Elevation
+XX.X	Spot Elevation on Hard Surface
D-1	Drainage Structure Designation
S-1	Sanitary Structure Designation
RE	Rim Elevation
IE	Invert Elevation
RCP	Reinforced Concrete Pipe
PVC	Polyvinyl Chloride Pipe
?	Undetermined/Unknown Pipe Destination

Schedule B-2 Exceptions

per Title Commitment No. 7222-6346428 issued by First American Title Insurance Company, bearing an effective date of June 15, 2023 at 8:00 AM.

Items not listed below are standard title exceptions and/or are not matters or issues that pertain to this survey.

(9) Restrictions, dedications, conditions, reservations, easements and other matters shown on the plat of OVATION REPLAT, as recorded in Plat Book 162, Page(s) 14, partially vacated by Resolution recorded in Book 10596, Page 1337, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). Affects subject property as depicted hereon.

(10) Restrictions, dedications, conditions, reservations, easements and other matters shown on the plat of OVATION, as recorded in Plat Book 151, Page(s) 31, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). Affects subject property as depicted hereon.

(11) Terms and conditions of that certain Storm Water Drainage Easement recorded in Book 8183, Page 642, as amended by that certain Amendment to Storm water Drainage Easement recorded in Book 10651, Page 1880. Affects subject property as depicted hereon.

(12) Declaration of Covenants, Conditions, Restrictions and Easements, recorded in Book 10177, Page 2197, as re-recorded in Book 10471, Page 467 and Book 10610, Page 292, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). Affects subject property as depicted hereon.

(13) Easement in favor of Florida Power Corporation, contained in instrument recorded November 2, 1949, in Deed Book 864, Page 210. Affects subject property as depicted hereon.

(14) Easement in favor of Florida Power Corporation, contained in instrument recorded November 3, 1970, in Book 1318, Page 616. Affects subject property, however, said document calls for strip of land 6 feet wide lying 3 feet each side of the centerline of power lines as constructed or to be constructed; document not plotted; blanket in nature.

(15) Easement in favor of Florida Power Corporation, contained in instrument recorded June 10, 2003, in Book 5391, Page 2153. Affects subject property as depicted hereon; NOTE: surveyor believes document contains typographical error and should read "the North 10 feet" (as depicted)

(16) Maintenance Agreement by and between Armstrong Reunion, LLC, a Florida limited liability company, and Reunion East Community Development District recorded in Book 7675, Page 1532. Affects subject property, however not a matter of survey, therefore not plotted.

(17) Easement in favor of Florida Power Corporation doing business as Progress Energy Florida, Inc., a Florida corporation recorded in Book 7814, Page 263. Affects subject property, blanket in nature.

(18) Obligations contained that certain Easement Agreement by and between John P. Adams and Ann D. Adams Family Limited Partnership, GLO Entrance Subsidiary, LLC, a Georgia limited liability company, and Armstrong Reunion, LLC, a Florida limited liability company recorded in Book 7859, Page 1315, together with Agreement Regarding Maintenance of Easement Area recorded in Book 10177, Page 2252. Affects subject property as depicted hereon.

(19) Distribution Easement in favor of Florida Power Corporation recorded in Book 2814, Page 754. Affects subject property as depicted hereon.

(21) Subject to those certain easements and restrictions that affect the Land and are referenced within that certain unrecorded Lease by and between Armstrong Reunion LLC, a Florida limited liability company, Landlord, and McDonald's USA, LLC, a Delaware limited liability company, Tenant, as evidenced by the Memorandum of Lease recorded in Book 8328, Page 1889, as amended in Book 8342, Page 1516 and as supplemented in Book 8470, Page 1482, and together with Covenant Not to Compete recorded in Book 8328, Page 1906. Unless otherwise stated, affects subject property, however not a matter of survey, therefore not plotted. OR Book 8328, Page 1889 affect subject property as depicted hereon.

(22) Declaration of Sign Easement recorded in Book 10651, Page 1894. Affects subject property as depicted hereon.

(23) Utility Easement recorded in Book 11573, Page 296. Affects subject property, blanket in nature.

(24) Polk County Utilities Easement recorded in Book 11461, Page 406. Affects subject property as depicted hereon.

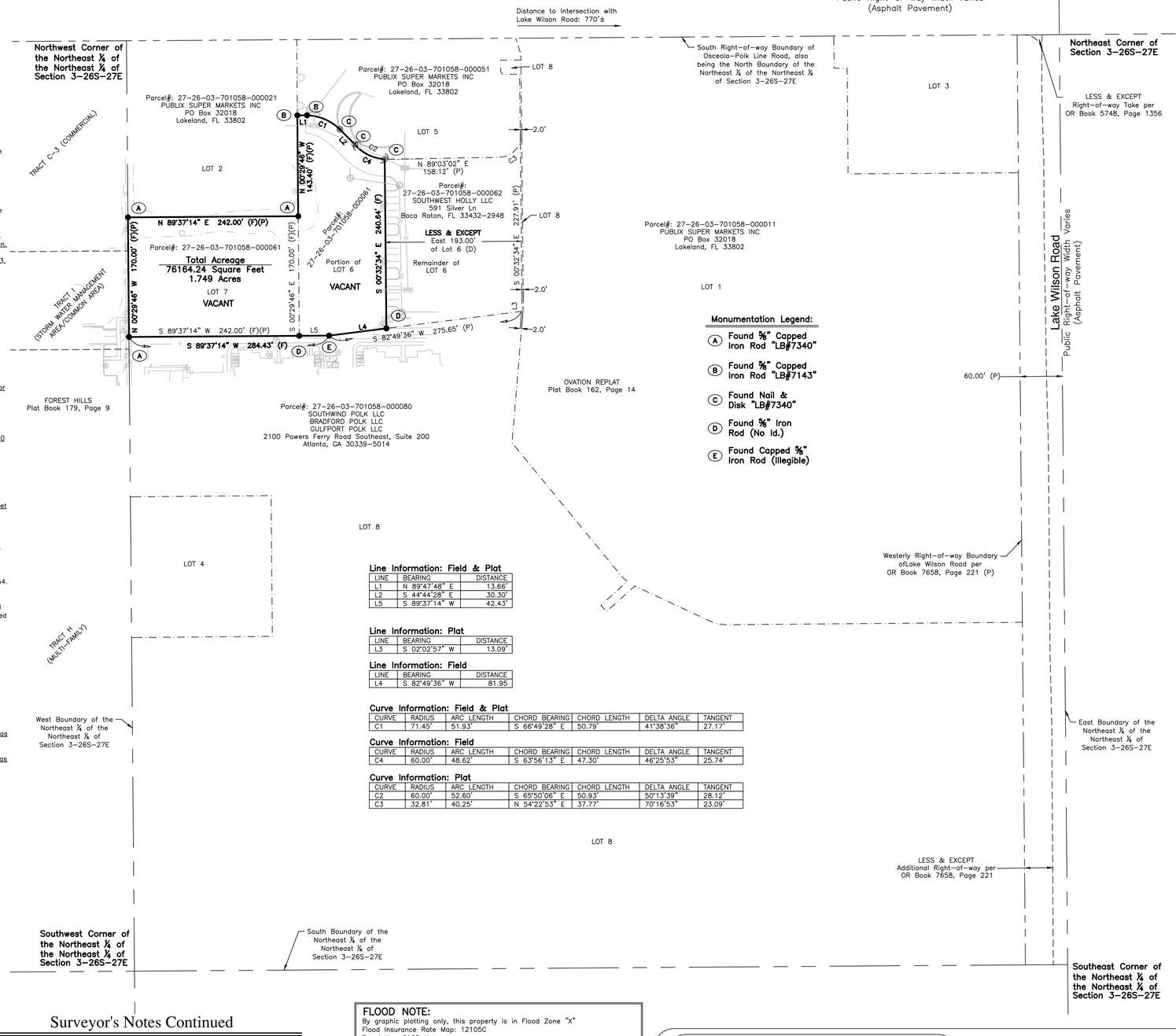
(25) Polk County Utilities Easement recorded in Book 12101, Page 143. Affects subject property as depicted hereon.

Surveyor's Notes

1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
2.) The bearing structure for this survey is based on a NAD 1983 Florida State Plane West Zone, bearing of N 00°29'46" W for the West Boundary of the Northeast 1/4 of the Northeast 1/4 of Section 3-26S-27E, also being the West Boundary of Subject Property.
3.) The horizontal datum utilized for this project is NAD 1983 Florida West Zone, U.S. Survey Feet. The control utilized to establish said datum was "95 063" being a National Geodetic Survey (NGS) Horizontal Control Station.
4.) The vertical datum utilized for this project is NGVD 1929, U.S. Survey Feet. The benchmark utilized was Polk County Benchmark "67031101" with an elevation of 137.21 feet.
5.) No underground foundations or footers were excavated or located for this survey.
6.) Per Table A of the ALTA/NSPS requirements:
   a.) Item 6: a zoning report or letter was not provided to the surveyor by the client; therefore no zoning information is depicted hereon.
   b.) Item 11: All utilities depicted hereon are from visible evidence only. Surveyor did not contact subsurface utility locator service.
   c.) Item 16: there is no observable evidence of current earth moving work, building construction or building additions.
   d.) Item 17: there is no known proposed changes in street right-of-way and there is no observable evidence of recent street or sidewalk construction or repairs.
7.) Subject Property has indirect access to Osceola-Polk Line Road and Lake Wilson Road, being publicly dedicated Right-of-ways via Cross Access Easement as recorded in OR Book 10177, Page 2197 and Access Easement (per Plat) as recorded in OR Book 8328, Page 1889.
8.) Every effort has been made to obtain drainage and sanitary pipe type and size, as shown. It is the responsibility of the end user to verify the invert and pipe size dimensions prior to design of new facilities.

Surveyor's Notes Continued

9.) Surveyor makes no guarantees as to the species of trees or to the health of each tree depicted hereon, if this information is necessary a certified arborist should be contacted.
10.) The trees shown hereon were located utilizing methods adequate for their accurate location and identification. However, this company and the signing surveyor reserves the right to verify the location of all trees critical to the design of buildings, parking and other permanent features. It is the responsibility of the design professional to inform this company and/or the signing surveyor of any trees critical to their design so that those trees can be verified prior to the completion of the design.



NUMBER OF PROVIDED PARKING SPACES	
TYPE OF SPACE	TOTAL PROVIDED
REGULAR	0
HANDICAP	0
TOTAL	0

Line Information: Field & Plat

LINE	BEARING	DISTANCE
L1	N 89°47'48" E	13.66'
L2	S 44°44'28" E	30.30'
L5	S 89°37'14" W	42.43'

Line Information: Plat

LINE	BEARING	DISTANCE
L3	S 02°02'57" W	13.09'

Line Information: Field

LINE	BEARING	DISTANCE
L4	S 82°49'36" W	81.95

Curve Information: Field & Plat

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C1	71.45'	51.93'	S 66°49'28" E	50.79'	41°38'36"	27.17'

Curve Information: Field

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C4	60.00'	48.62'	S 63°56'13" E	47.30'	46°25'53"	25.74'

Curve Information: Plat

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE	TANGENT
C2	60.00'	52.60'	S 65°50'06" E	50.93'	50°13'39"	28.12'
C3	32.81'	40.25'	N 54°22'53" E	37.77'	70°16'53"	23.09'

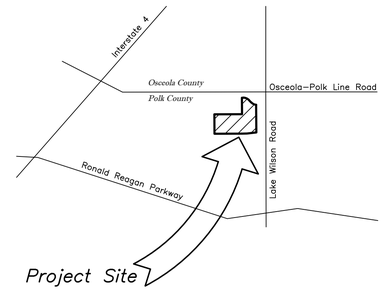
FLOOD NOTE:
By graphic plotting only, this property is in Flood Zone "X"
Flood Insurance Rate Map: 12105C
Panel No.: 0125 H
Community Name/No.: Polk County/120261
Effective Date: December 22, 2016

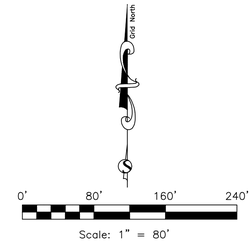
Subject Property IS NOT in a Special Flood Hazard Area.

No field surveying was performed to determine this zone and an elevation certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency.

Vicinity Map

Not to Scale





Legal Description

A parcel of land being Lot 7 and a portion of Lot 6, OVATION REPLAT, according to the map or plat thereof as recorded in Plat Book 162, Page 14, of the Public Records of Polk County, Florida, lying and being in Section 3, Township 26 South, Range 27 East, Polk County, Florida, and being more particularly described as follows:

Lots 6 and 7, OVATION REPLAT, according to the map or plat thereof as recorded in Plat Book 162, Page 14, of the Public Records of Polk County, Florida; LESS AND EXCEPT the East 193.00 feet of Lot 6 of said plat of OVATION REPLAT.

The above description is the same as the one described per Title Commitment No. 7222-6346428 issued by First American Title Insurance Company, bearing an effective date of June 15, 2023 at 8:00 AM.

ALTA/NSPS Land Title Survey

Ovation – Lot 7 and portion of Lot 6
0 Osceola Polk Line Road
Davenport, Florida 33896

Surveyor's Certification:
To CML Property Group, LLC, First American Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1-4, 6(a), 7(a), 7(b)(1), 7(c), 8, 9, 11, 13-14 and 16-19 of Table A thereof. The fieldwork was completed on May 18, 2023.

Stacy L. Brown
Florida Professional Surveyor and Mapper No: 6516
SurvTech Solutions, Inc.
Florida Licensed Business No. 7340

	REVISION	DATE	INITIALS
1	Added topo information (Sheet 3) & revised title	12/08/23	B.S.

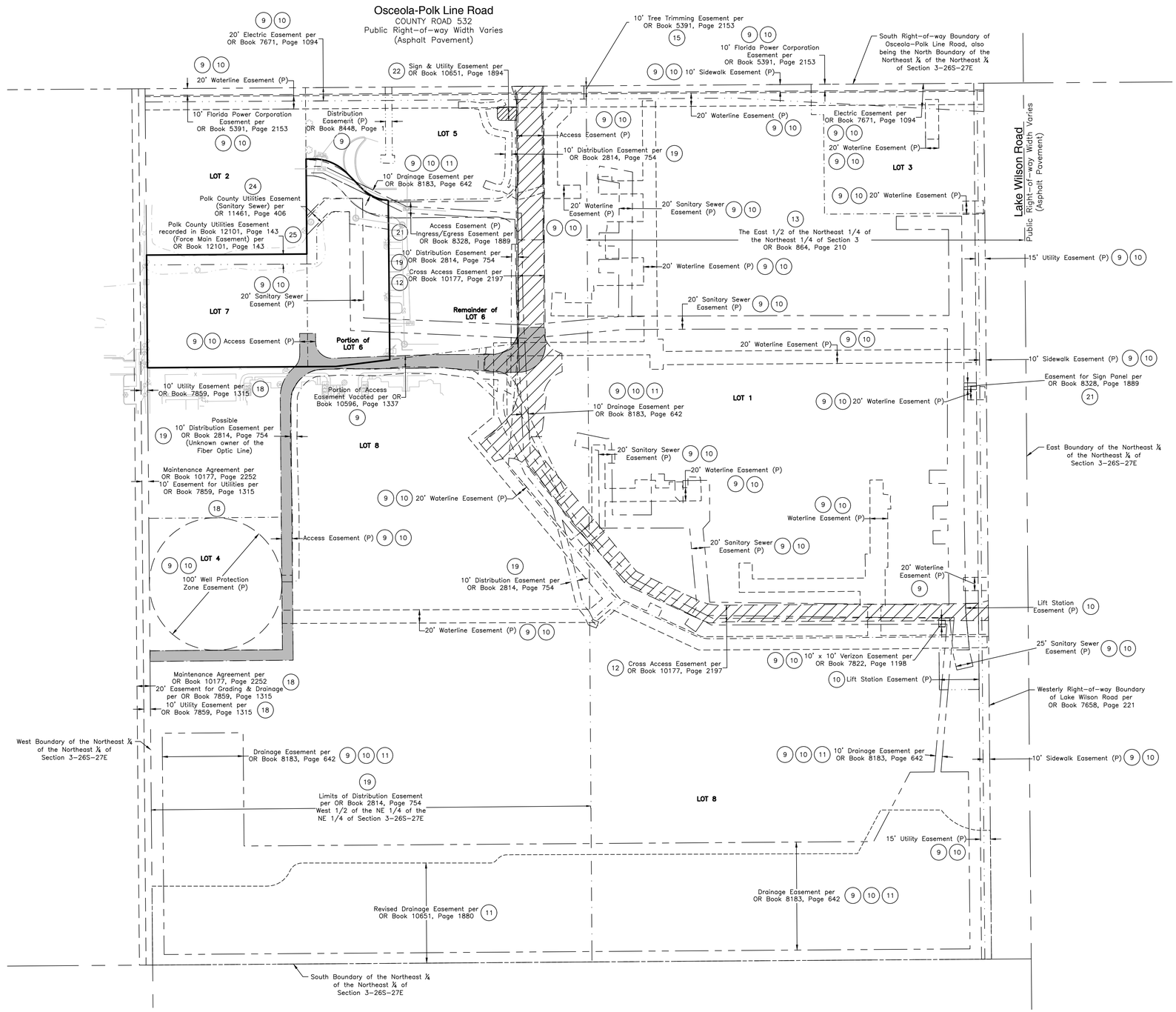
SURVEYING TODAY WITH TOMORROW'S TECHNOLOGY

Drafted By: P. Hernandez, B. Stinson — *Drawing Name: 230758_A*
Date Drafted: 05/31/23 — *Prior Project No.: 20080062_35*
Approved By: S. Brown — *Last Field Date: 05/18/23*
Date Approved: 06/12/23 — *Field Book/Page: 23-03FP/18*

SURVTECH SOLUTIONS, INC.
10220 U.S. Highway 92 East
Tampa, FL 33610
phone: (813)-621-4929
fax: (813)-621-7194
Licensed Business #7340
email: sbrown@survtechsolutions.com
http://www.survtechsolutions.com

Date Plotted: 12/8/2023 8:31:33 AM By: Ben Stinson

Schedule B-2 Exceptions Detail



ALTA/NSPS Land Title Survey

Ovation - Lot 7 & Portion of Lot 6

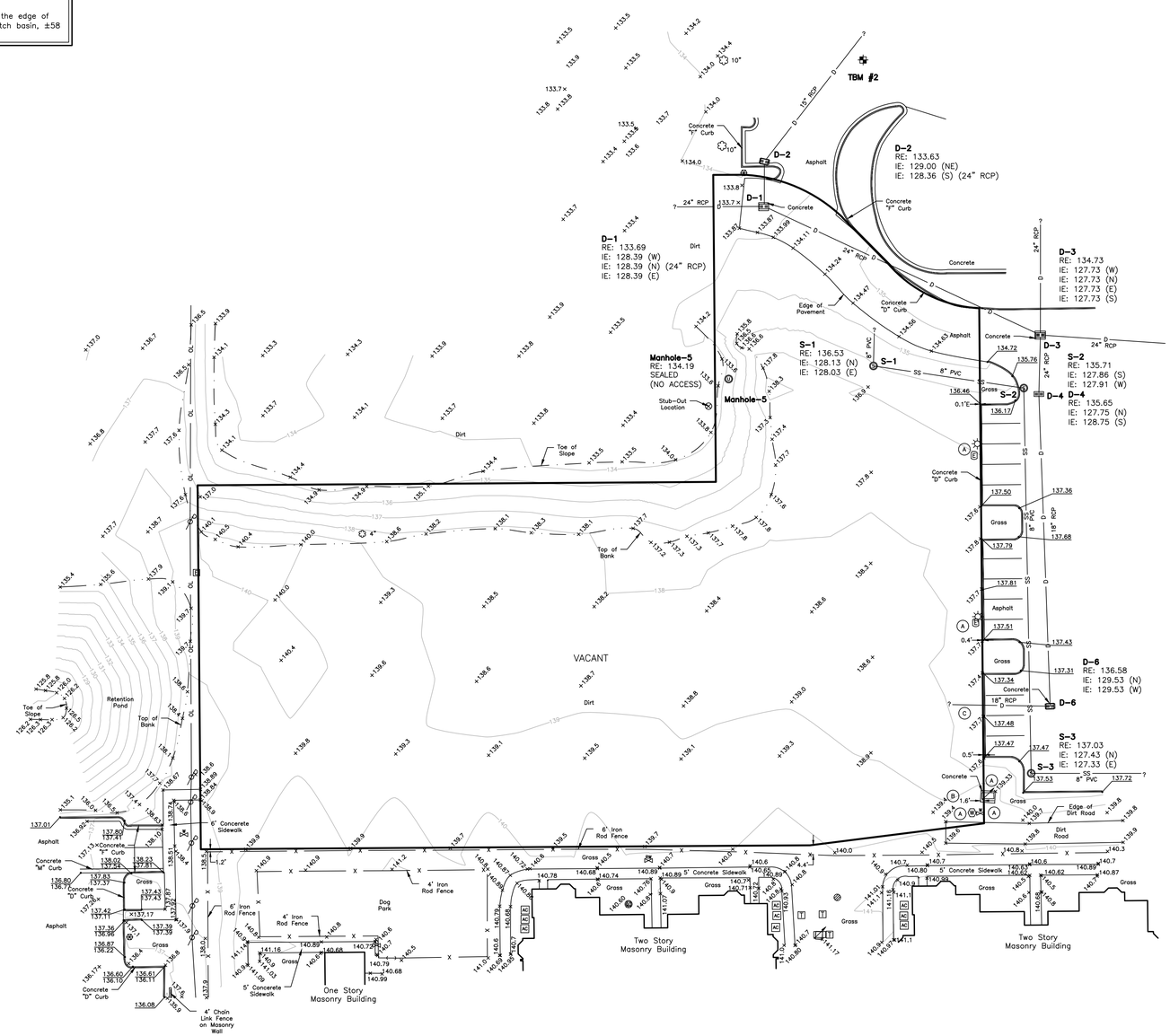
SURVTECH SOLUTIONS, INC.
10220 U.S. Highway 92 East
Tampa, FL 33610
Licensed Business #7340
phone: (813)-621-4929
fax: (813)-621-7194
email: sbrown@survtechsolutions.com
http://www.survtechsolutions.com

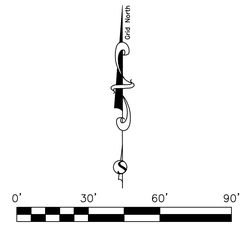
Topographic Detail

Benchmark Information: NGVD 1929

TBM#1
Elevation = 134.36'
Found Nail & Disk labeled "SurvTech Trav Pt." in asphalt near the the Northeast corner of a concrete "F" curb; ±18 feet North-Northwest of a 6-inch magnolia tree, ±12 feet Southeast of a light pole, and ±5 feet South of a sign.

TBM#2
Elevation = 134.01'
Found Nail & Disk labeled "SurvTech Trav Pt." in asphalt near the edge of pavement of a concrete "F" curb; ±66 feet Northeast of a catch basin, ±58 feet North of a light pole, and ±45 feet East of a gate.





Statement of Potential Encroachments

(A) Open & notorious evidence of utility feature without benefit of known easement

(B) Concrete pad falls west of property boundary

(C) Potential open & notorious evidence of drainage pipe without benefit of known easement

ALTA/NSPS Land Title Survey
Ovation - Lot 7 & Portion of Lot 6

SURVTECH SOLUTIONS, INC.
10220 U.S. Highway 92 East
Tampa, FL 33610
Licensed Business #7340
phone: (813)-621-4929
fax: (813)-621-7194
email: sbrown@survtechsolutions.com
http://www.survtechsolutions.com