LEGAL DESCRIPTION

PROFESSIONAL TEAM

CIVIL ENGINEERS/PLANNERS:

AVID GROUP 4901 VINELAND ROAD; SUITE 190 ORLANDO, FLORIDA 32811 PHONE: (407) 248-0505

GEOTECHNICAL ENGINEERS:

TERRACON CONSULTANTS, INC. 503 WEST CENTRAL BLVD. ORLANDO, FLORIDA 32801 PHONE: (407) 843-1311

SURVEYORS:

ASSOCIATED LAND SURVEYING & MAPPING, INC. 101 WYMORE ROAD, SUITE 111 ALTAMONTE SPRINGS, FLORIDA 32714 407-869-5002

TRAFFIC ENGINEERS:

AVID GROUP 2300 CURLEW ROAD; SUITE 100 PALM HARBOR, FLORIDA 34683 PHONE: (727) 789-9500

ARCHITECT:

BURKE, HOGUE & MILLS ASSOCIATES, INC. 100 COLONIAL CENTER PARKWAY; SUITE 150 LAKE MARY, FLORIDA 32746 PHONE: (407) 629-4511

LANDSCAPE ARCHITECT:

AVID GROUP 2300 CURLEW ROAD; SUITE 100 PALM HARBOR, FLORIDA 34683 PHONE: (727) 789-9500

UTILITY COMPANIES

LAKE APOPKA NATURAL GAS P.O. BOX 771275 WINTER GARDEN, FLORIDA 34777 CONTACT: ALEX WOSGIEN 407-656-2864

TELEPHONE:

MCI COMMUNICATIONS 69 W. CONCORD STREET CLERMONT, FLORIDA 33801 CONTACT: TIM COLE 407-941-4228

CABLE:

BRIGHTHOUSE NETWORK 730 S. MAIN STREET WILDWOOD, FLORIDA 34785 CONTACT: JOHN WALSKY 386-775-4444 EXT. 7879

POWER:

PROGRESS ENERGY 401 CITRUS TOWER BLVD. CLERMONT, FLORIDA 34711 CONTACT: SUE FREYSER 407-646-8364

SEWER:

CITY OF CLERMONT 685 W. MONTROSE STREET CLERMONT, FLORIDA 34711 352-241-7335

WATER:

CITY OF CLERMONT 685 W. MONTROSE STREET CLERMONT, FLORIDA 34711 352-241-7335

SR-50 & HANCOCK



STARBUCKS SR-50

CONSTRUCTION PLANS

CLERMONT, FLORIDA

Prepared For:

BURKE, HOGUE & MILLS ASSOCIATES, INC.

100 COLONIAL CENTER PARKWAY; SUITE 150 LAKE MARY, FLORIDA 32746 PHONE: (407) 629-4511

Prepared By:



TRAFFIC/TRANSPORTATION 32811

CIVIL ENGINEERING 4901 VINELAND ROAD, STE 190 LAND PLANNING ORLANDO, FLORIDA

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IRRIGATION DETAILS AND NOTES

SURVEY

SITE DATA

PROPERTY OWNER:

JOHN P. AND ANNA D. ADAMS FAMILY, LP

P.O. BOX 1667 WINTER HAVEN, FLORIDA 33882-1667

PROPERTY LOCATION

BUILDING SETBACK REQUIREMENTS:

THE EAST 2500 BLOCK OF SR-50, CLERMONT FLORIDA 400 FEET WEST OF HANCOCK ROAD ON THE SOUTH

PROPERTY ZONING:

PARCEL ID:

DEVELOPED BY:

STARBUCKS COFFEE COMPANY

4207 VINELAND ROAD

ORLANDO, FL 32811

DRIVE THRU

C-2 COMMERCIAL

REAR.

PROPERTY USE:

EXISTING **PROPOSED** RESTAURANT WITH PARKING LOT

MAXIMUM BUILDING HEIGHT:

HEIGHT:

LOT COVERAGE CALCULATIONS: **PROPOSED BUILDING AREA** 0 SF 0.00% 1,910 SF 4.82% **PARKING & SIDEWALK AREA** 35,360 SF 89.22% 29,791 SF 75.17% TOTAL IMPERVIOUS AREA 35,360 SF 89.22% 31,701 SF 79.99% TOTAL PERVIOUS AREA 10.78% 7,930 SF 20.01%

PARKING (REQUIRED):

1 PARKING SPACE PER 50 SF OF FLOOR AREA DEVOTED TO PATRON USE (INDOOR=898, OUTDOOR=638) TOTAL = 1,536 SF

1,536 SF/50 = 31 SPACES REQUIRED

HC SPACES REQUIRED: 2

TOTAL SITE AREA

STANDARD STALL SIZE = 9' x 18' AND 10' x 20' HC STALL SIZE = 12' x 18'

PARKING (PROPOSED):

STANDARD PARKING SPACES = 40 HC SPACES = 2

TOTAL PARKING SPACES = 42

FLOOD ZONE:

THIS PROPERTY LIES IN FLOOD ZONE "X", AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP; COMMUNITY PANEL No. 12069 C0565 D, DATED

> 84016-8 RECEWED

100.00%

DEC 2 1 2006

ALTAMONTE SVC. CTR.

STARBUCKS SR-50

AVID GROUP JOB # 2078-016

GENERAL CONSTRUCTION NOTES (9/13/04)

. SEE SURVEY FOR SITE SPECIFIC BENCH MARK AND ELEVATION DATUM.

2. LOCATIONS, DIMENSIONS AND ELEVATIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO STANDARD UTILITY ATLAS SHEETS OR OTHER INFORMATION OBTAINED AT THE TIME OF PREPARATION OF THESE PLANS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DIMENSIONS, AND ELEVATION OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND MAKE ARRANGEMENTS FOR REQUIRED RELOCATIONS WITH THE AFFECTED UTILITY. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY DURING RELOCATION OPERATIONS.

3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO ALL UTILITY COMPANIES BEFORE PERFORMING ANY EXCAVATION. THE CONTRACTOR SHALL HAVE UTILITY LOCATIONS MARKED BY CALLING "SUNSHINE" AT 1 800 432 4770 AT LEAST 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT INCLUDED IN THE "SUNSHINE" PROGRAM.

. CHAPTER 77 153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THESE PLANS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND THE GAS MAINS MUST BE FIELD VERIFIED BY ON SITE INSPECTION BY GAS COMPANY PERSONNEL. EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE GAS COMPANY A MINIMUM OF TWO (2) WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.

. THE CONTRACTOR SHALL REVIEW THE PLANS FOR CONFLICTS OR OTHER DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK. 6. ALL PROPOSED UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED PRIOR TO PAVEMENT SURFACE COURSE

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE CONDITIONS AND INSPECTION REQUIREMENTS OF ALL PERMITS ISSUED FOR THE PROJECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SHALL SCHEDULE ALL INSPECTIONS IN ACCORDANCE WITH AGENCY REQUIREMENTS.

8. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.

9. THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH ALL APPLICABLE STATUTES, RULES, REGULATIONS AND

10. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THE PROJECT. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER.

11. AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER, AND

APPROPRIATE PERMITTING AGENCIES OF THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER

12. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHERS. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES WITH OTHERS WHERE NECESSARY.

13. SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 PSI, AT 28 DAYS UNLESS OTHERWISE

THAN EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. 15. ALL DISTURBED AREAS THAT ARE NOT TO BE SODDED, ARE TO BE SEEDED AND MULCHED IN ACCORDANCE WITH FDOT

14. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER

STANDARDS. THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS UNTIL A SATISFACTORY STAND OF GRASS, ACCEPTABLE TO THE APPLICABLE REGULATORY AGENCIES, OWNER, AND ENGINEER, HAS BEEN ACHIEVED. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF ALL REMEDIAL WORK REQUIRED UNTIL THE SYSTEM HAS BEEN ACCEPTED.

16. ALL SODDED AND SEEDED AREAS BE WATERED AND FERTILIZED UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.

17. THE CONTRACTOR SHALL LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO FINAL ENGINEERING INSPECTION AND CERTIFICATION. THE CONTRACTOR SHALL BEAR ALL COSTS INCURRED AS A CONSEQUENCE OF LOST OR DISTURBED PROPERTY CORNERS. LOST OR DISTURBED PROPERTY CORNERS SHALL BE REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR.

18. THE GEOTECHNICAL ENGINEER SHALL SUPPLY THE ENGINEER AND OWNER WITH A PHOTOCOPY OF ALL COMPACTION TESTS AND OTHER REQUIRED MATERIALS TESTS UNDER THIS CONTRACT. THE GEOTECHNICAL ENGINEER SHALL CERTIFY, IN WRITING, TO THE ENGINEER AND OWNER, THAT ALL TESTING REQUIREMENTS HAVE BEEN SATISFIED.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL REQUIRED TESTING WITH THE GEOTECHNICAL ENGINEER. TESTING IS REQUIRED AS DICTATED BY THE CONTRACT DOCUMENTS, CONSTRUCTION PLANS AND SPECIFICATIONS. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER SHALL SUBMIT CERTIFICATIONS TO THE ENGINEER AND OWNER THAT STATE THAT ALL REQUIREMENTS HAVE BEEN MET.

20. THE CONTRACTOR SHALL REVIEW ALL PROJECT GEOTECHNICAL REPORTS PRIOR TO BIDDING AND THE START OF CONSTRUCTION. 21. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE

22. THE CONSTRUCTION DRAWINGS DO NOT INCLUDE SPECIFICATION FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE

RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION SITE SAFETY.

					14. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND
		TESTING SCHEDULE		EDEOUENCY	SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES, INVERTS, AND LOCATIONS OF ALL STORMWATER FACILITIES INCLUDING THE STORMWATER POND, DRAINAGE STRUCTURES, BERMS & SWALES. THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER FOR THE PURPOSE OF CERTIFYING THE STORMWATER MANAGEMENT SYSTEM.
ITEM	TEST TYPE	TEST I.D.	REQUIREMENT N/A	Per Soil Type	PAVING, GRADING & DRAINAGE TESTING AND INSPECTION REQUIREMENTS (4/30/04)
Embankment	Maximum Density Optimum Moisture Field Density	AASHTO T180 ASTM D1557 AASHTO T191, T204 T238 ASTM D1556, D2937 D2922	95% of Maximum Density	One Per 2,500 S.F. Horizontally *; Alternating Lifts (12 Inches)	1. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.
Utility Trench Backfill Under Roadways and Structures	Maximum Density Optimum Moisture Field Density	AASHTO T180 ASTM D1557 AASHTO T191, T204 T238 ASTM D1556, D2937 D2922	N/A 95% of Maximum Density	Per Soil Type One Per 2,500 S.F. Horizontally *; Every 2' Vertically D2922 At least one for each pipe run	2. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REQUIRED TESTING WITH THE GEOTECHNICAL ENGINEER. TESTING IS REQUIRED IN ACCORDANCE WITH THE TESTING SCHEDULE FOUND IN THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER SHALL SUBMIT CERTIFICATIONS TO THE ENGINEER AND OWNER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
Backfill of Structures	Maximum Density Optimum Moisture Field Density	AASHTO T180 ASTM D1557 AASHTO T191, T204 T238 ASTM D1556, D2937 D2922	N/A 95% of Maximum Density	Per Soil Type Every 2' Vertically	
	S			One Per Soil Type	SANITARY SEWER NOTES (04/02/04)
Subgrade B	Bearing Values	LBR — FLA. D.O.T.	See Typical	Check Point LBR at 500 L.F. Horizontally	1. ALL SANITARY SEWER MAINS AND LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
	Maximum Density Optimum Moisture	AASHTO T180 ASTM D1557	Pavement Section	One Per Soil Type	2. ALL SANITARY SEWER WORK SHALL CONFORM TO LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
	Field Density & Thickness	AASHTO T191, T238 ASTM D1556, D2922		One Per 2,500 S.F. Horizontally	3. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY ENGINEER OF ANY
Base	Bearing Values Maximum Density	LBR - FLA. D.O.T.	See Typical	One Per Source or as MtI. Changes Check Point LBR at 500 L.F. Horiz.	CONFLICTS OR DISCREPANCIES. 4. PVC PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATION DESIGNATION D-3034, SDR 26. THE JOINTS SHALL CONFORM TO ASTM D-3212. INSTALLATION OF SDR 26 PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ASTM SPECIFICATION SECTION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR.
	Optimum Moisture Thickness Field Density Gradation		Pavement Section	One Per 2,500 S.F. Horizontally One Per Source	5. ALL PVC FORCE MAINS SHALL BE PRESSURE CLASS 200, SDR 21, COLOR GREEN, WITH A GREEN MAGNETIC TAPE A MINIMUM OF 2" WIDE PLACED 1 FOOT BELOW THE PROPOSED GRADE. THE PRINTING ON THE MAGNETIC TAPE SHALL REA "FORCE MAIN"
 	Atterberg Limits	ASTM C136, D423, D42	4		6. ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.51-91 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND SHALL BE
Soil Cement Base	Mix Design	Portland Cement		One Per Soil Type	CEMENT MORTAR LINED, STANDARD THICKNESS IN ACCORDANCE WITH ANSI A 21.4 (AWWA C104).
	Maximum Density	Assoc. Specification AASHTO T134		One Per Soil Type Daily	7. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT REQUIRE DIP ARE TO BE POLYLINED (EPOXY LINED.
separation betwee SHWT & bottom of base is <1.5')	Optimum Moisture	(Standard) Portland Cement	See Typical Pavement Section	One Set of 3 Per Soil	8. ALL SANITARY SEWER RIMS AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
buse is (1.3)	Strength Specimens Assoc. Specifications Test Cores Portland Cement Assoc. Specifications			One Set of 3 Per Soil	9. THE CONTRACTOR SHALL PROVIDE CERTIFIED UTILITY RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL SANITARY SEWER MAINS, STRUCTURES AND SERVICES. THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE CENTRED.
	Field Density & Thickness	AASHTO T191, T238 ASTM D1556, D2922		One Per 2,500 S.F. Horizontal	ENGINEER.
Asphaltic Concre		AASHTO T164			SANITARY SEWER TESTING AND INSPECTION REQUIREMENTS (04/02/04)
	Bitumen Content, Gradation Field Density	ASTM D2172 ASTM 02950-81	Per Specifications 95% of Lab Density	One Per Day One Per 2,500 S.F. Horizontal	1. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE ENGINEER. CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
	Los Angeles Abrasion Thickness	AASHTO T96-77 ASTM C131-81 N/A	Per Specifications Per Specifications	One Per Source One Per 2,500 S.F.	2. THE GRAVITY SANITARY SEWER AND ALL SERVICE LATERALS SHALL BE SUBJECT TO AN INFILTRATION/EXFILTRATION TEST IN ACCORDANCE WITH LOCAL REGULATIONS. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SHA BE SUBMITTED TO THE LOCAL AUTHORITIES FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
NOTES: * The Co	ntractor shall not m strenath limits	pave over soil cement as established by soi	base until a 30 da Is testina company.	y curing time has elapsed shall not be exceeded	3. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH LOCAL REGULATIONS TESTS SHALL BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE LOCAL AUTHORITIES FOR APPROVAL.

** Maximum strength limits, as established by soils testing company, shall not be exceeded *** Should any of the information provided herein conflict with either the recommendations of the Geotechnical Engineer, and/or the Geotechnical Report, then the aforementioned recommendations will supercede this "TESTING SCHEDULE GUIDE"

CLEARING AND EROSION CONTROL NOTES (4/30/04)

I. ALL TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL REGULATIONS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR SHALL PREPARE THE SITE AS DIRECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO STARTING ACTUAL CONSTRUCTION. COPIES OF THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND REPORT ARE AVAILABLE THROUGH THE OWNER OR THE GEOTECHNICAL ENGINEER. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS SHALL BE DIRECTED TO THE GEOTECHNICAL ENGINEER AND OWNER.

3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED OPEN AREAS SHALL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.

4. THE TOP SOIL REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER AND SHALL BE USED FOR LANDSCAPING PURPOSES UNLESS OTHERWISE DIRECTED BY THE OWNER.

5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

7. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVAL

6. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR REMOVAL OF EXISTING STRUCTURES.

OR DEMOLITION OF EXISTING STRUCTURES. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCY EXIST, THE CONTRACTOR SHALL

9. PRIOR TO THE COMPLETION OF CONSTRUCTION, THE RETENTION/DETENTION AREAS SHALL BE RESHAPED, CLEARED OF SILT, MUD AND DEBRIS, AND GRASSED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.

PAVING, GRADING AND DRAINAGE NOTES (4/30/04)

CONTACT THE OWNER FOR CLARIFICATION PRIOR TO DEMOLITION.

. ALL DELETERIOUS SUBSTANCES (I.E. MUCK, PEAT, BURIED DEBRIS) SHALL BE EXCAVATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER OR OWNER. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS SHALL BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SPECIFIED BY THE GEOTECHNICAL ENGINEER OR OWNER.

2. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES TO BE SAVED. THE CONTRACTOR SHALL COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY GRADE CHANGE.

. THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTING CONCRETE PAVEMENT.

4. THE CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT AT ABUTMENT OF CONCRETE AND ANY STRUCTURE 5. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY SHALL BE MADE WITH PERMANENT THERMOPLASTIC, AND SHALL CONFORM TO FDOT STANDARD INDEX NO. 17346 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PARKING STALL STRIPING SHALL BE 4" WIDE PAINTED WHITE STRIPES UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

6. THE CONTRACTOR SHALL INSTALL EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE EXCEEDS THE MINIMUM DIMENSIONS SHOWN IN FDOT INDEX 205.

. STANDARD INDICES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".

8. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

9. PVC STORM PIPE, 12" AND SMALLER, SHALL CONFORM TO AWWA C-900, SDR-18, CLASS 150, UNLESS OTHERWISE INDICATED IN THE DRAWINGS AND SPECIFICATIONS. 10. PIPE LENGTHS SHOWN ARE APPROXIMATE.

1. ALL DRAINAGE STRUCTURE FRAMES, GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.

2. THE CONTRACTOR IS TO GRASS THE RETENTION/DETENTION POND AS INDICATED ON PLANS WITHIN ONE-WEEK FOLLOWING CONSTRUCTION OF THE POND.

13. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL REGULATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS

PAVING, GRADING & DRAINAGE TESTING AND INSPECTION REQUIREMENTS (4/30/04)

SANITARY SEWER NOTES (04/02/04)

SANITARY SEWER TESTING AND INSPECTION REQUIREMENTS (04/02/04)

3. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH LOCAL REGULATIONS. TESTS SHALL BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE LOCAL AUTHORITIES FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

WATER SYSTEM NOTES (04/02/04)

. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

2. ALL WATER SYSTEM WORK SHALL CONFORM TO LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.

3. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER SHALL BE RESOLVED BY ADJUSTING THE WATER LINES AS REQUIRED.

4. ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.51 (AWWA C151) AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS IN ACCORDANCE WITH ANSI A 21.4 (AWWA C104).

5. ALL FITTINGS 3" OR LARGER SHALL BE MECHANICAL JOINT, DUCTILE IRON PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI A 21.10 AND A 21.11 (AWWA C110 AND AWWA C111 RESPECTIVELY). FITTINGS SHALL BE CEMENT MORTAR LINED AND BITUMINOUS COATED IN ACCORDANCE WITH AWWA C104 AND AWWA C151

3. THE CONTRACTOR SHALL INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECT ION.

. ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241.

8. WATER MAIN PIPING LARGER THAN 2" AND SMALLER THAN 4" SHALL BE PRESSURE CLASS 200 AND MEET THE REQUIREMENTS OF SDR 21 IN ACCORDANCE WITH ASTM D2241 UNLESS SPECIFIED OTHERWISE.

9. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED SLEEVE TYPE

10. ALL GATE VALVES 2" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF AWWA C509

11. ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AWWA C502 AND SHALL BE APPROVED BY THE LOCAL UTILITY AND FIRE MARSHAL.

12. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL LOCAL REGULATIONS, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE

13. THE CONTRACTOR SHALL PROVIDE CERTIFIED UTILITY RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW THE LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL WATER MAINS, SERVICES, MANHOLES, GRAVITY SEWER MAINS, SERVICE LATERALS. PUMP STATIONS AND FORCE MAINS. THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER.

MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.

FDEP NOTES (04/02/04)

B. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT WILL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.

2. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL

D. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD.

E. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE. THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

O. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES INSTALLED UNDER THIS PROJECT WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING FLBOW.

Q. NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED PROCEDURES.

R. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT.

S. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS INSTALLED UNDER THIS PROJECT WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT.

NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE CONSTRUCTED OF ASBESTOS-CEMENT OR POLYVINYL CHLORIDE PIPE WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, RESPECTIVELY, AND ALL OTHER NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD

J. NEW OR ALTERED WATER MAINS, INCLUDING FIRE HYDRANT LEADS AND INCLUDING SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, WILL BE DISINFECTED AND BACTERIOLOGICALLY EVALUATED IN ACCORDANCE WITH RULE

AA.NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS UNDER SURFACE WATER WILL HAVE A MINIMUM COVER OF TWO FEET.

WATER SYSTEM TESTING AND INSPECTION REQUIREMENTS (04/02/04)

. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE ENGINEER AND LOCAL AUTHORITIES. PRESSURE TESTS SHALL BE IN ACCORDANCE WITH LOCAL WATER DEPARTMENT & FDEP SPECIFICATIONS. CONTRACTOR SHALL NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS. SEE ITEM "T" ABOVE.

2. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED CHLORINATION/DISINFECTION AND BACTERIOLOGICAL SAMPLING IN ACCORDANCE TO ITEM "U" ABOVE. CONTRACTOR SHALL OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS (WHICH SHALL ALSO INDICATE THE CHLORINE RESIDUAL) SHALL BE SUBMITTED TO ENGINEER.

WATER CLEARANCE REQUIREMENTS (04/02/04)

W. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER. WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

(. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE—TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.

Y. AT THE UTILITY CROSSINGS DESCRIBED IN PART II.C.1.W ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS. STORM SEWERS. STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

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GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED XXXXXXX XX, XXXX. ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWING(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN THE CONVENIENCE OF THE CONTRACTOR, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGE-MENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DRAINAGE SYSTEMS

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DRAINAGE INCLUDING EXCAVATION OF WRAS PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDED IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE DRAINAGE COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS.

SUMTER ELECTRIC

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WINTER GARDEN, FL

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THE UTILITIES ARE THE PROPERTY OF THE FOLLOWING:

PROGRESS ENERGY CITY OF CLERMONT UTILITIES DEPARTMENT P.O. BOX 120069 685 WEST MONTROSE STREET CLERMONT, FL 34711 (352) 241-7335 CONTACT: TAMARA RICHARDSON

CLERMONT, FL 34712 (407) 872-1250 CONTACT: SUE FREYSER

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UTILITIES DEPARTMENT

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AS BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEQALED AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL AS-BUILT REQUIREMENTS.

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE FOR THE LAYOUT OF ALL THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPENCIES BETWEEN FIELD MEASURE-MENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS

ALLIFSTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, CITY OF CLERMONT, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICA-TIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND THE ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

SHOP DRAWINGS

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

EROSION CONTROL

EROSION AND SILTRATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SEED AND MULCH OR SODDED WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION.

WETLAND PROTECTION

THE LIMITS OF THE ON-SITE WETLANDS HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CON-STRUCTION PLANS OR ON PERMIT MATERIALS. THE WETLANDS ARE TO BE PROTECTED FROM DISTURBANCE AT ALL TIMES. CONTRACTOR SHALL PROVIDE EROSION, SILTATION, AND DIVERSION MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A COPY OF EACH PERMIT RELATING TO WETLANDS AND WATER MANAGEMENT AND ADHERE TO ALL PROVISIONS AND CONDITIONS THERETO.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED. GRADING AND/OR CLEARING ON PROPERTIES OTHER THAN SHOWN ON THE APPROVED PLANS IS PROHIBITED.

TREE REMOVAL

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER, ENGINEER AND THE CITY OF CLERMONT.

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY

MATERIAL STORAGE/DEBRIS REMOVAL

1) NO COMBUSTIBLE BUILDING MATERIALS MAY BE ACCUMULATED ON THE SITE AND NO CONSTRUCTION WORK INVOLVING COMBUSTIBLE MATERIALS MAY BEGIN UNTIL INSTALLATION OF ALL REQUIRED WATER MAINS AND FIRE HYDRANTS HAVE BEEN COMPLETED, DEP APPROVAL RECEIVED FOR THE WATER MAINS, AND THE HYDRANTS ARE IN OPERATION. CONSTRUCTION WORK INVOLVING NON-COMBUSTIBLE MATERIALS, SUCH AS CONCRETE, MASONARY AND STEEL MAY BEGIN PRIOR TO THE FIRE HYDRANTS BEING OPERATIONAL.

2) ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL

ALL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGATATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL, FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

PAVEMENT AND/OR ROAD AND RIGHT-OF-WAY WORK

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE ROADWAYS SHOWN ON THESE PLANS IS FDOT, LAKE COUNTY OR THE CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

GENERAL DESIGN INTENT

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS INGRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTION TO ACCOMPLISH THE INTENT OF THE PLANS.

MATERIALS/CONSTRUCTION SPECIFICATIONS

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 1991, OR LATEST EDITION.

PAVEMENT SECTION REQUIREMENTS

CONSTRUCTION OF ROADWAYS SHALL BE 12" OF STABILIZED SUBBASE WITH A LIMEROCK BEARING PATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIMEROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PFR AASHTO T-180 AND 2" TYPE S-111 OF VIRGIN ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

SIDEWALKS

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREA AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4 INCHES OF CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI, JOINTS SHALL BE EITHER TOOLED OR SAWCUT AT A DISTANCE OF 5' LENGTHS, HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

PAVEMENT MARKINGS/SIGNAGE

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

TRAFFIC CONTROL

AN MOT PLAN SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK. A MINIMUM OF 2-WAY, ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WARNING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION, ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI, ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

R/W RESTORATION

ALL AREAS WITHIN THE RIGHT-OF-WAYS SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMEROCK AND ROCKS AND SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

SITE ACCESS

ALL ACCESS TO THE JOB SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT AS APPROVED BY THE CITY OF CLERMONT.

POTABLE WATER/FIRE SYSTEMS

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS <u>CITY OF CLERMONT.</u> THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY, UNLESS OTHERWISE INDICATED ON PLANS.

PIPE MATERIALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL INFRASTRUCTURE TO BE CONSTRUCTED. WATER SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL MEET CITY SPECIFICATIONS.

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND A DR (DIMENSION RATIO) OF 18. ALL PVC PIPE SHALL BEAR THE NSF LOGO FOR POTABLE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM D3139, DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSI/AWWA C150/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANSI/AWWA C104/A21.4 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANSI/AWWA C111/Á21.11 (LATEST EDITION).

PIPE DETECTOR WITH LOCATOR WIRE SHALL BE INSTALLED ON ALL WATER MAINS PER DETAIL.

PIPE SIZES GREATER THAN 12" IN BOTH PVC AND DUCTILE IRON SHALL BE SEPARATELY SPECIFIED ON THE PLANS; WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS.

FITTINGS FOR DUCTILE IRON PIPE AND PVC C-900 PIPE SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANSI/AWWA C153/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LINED IN CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (8 MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA C105.

TRANSMISSION MAIN SHALL BE DIP RATED FOR 250 PSI.

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANSI/AWWA C509.87 WITH HANDWHEEL OR WRENCH NUT, EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE VALVES COMPLIANCE WITH AWWA SPECIFICATION C509 AND TESTS LISTED THEREIN WILL BE REQUIRED. VALVES SHALL BE CLOW, DRESSER, KENNEDY, AMERICAN.

BUTTERFLY VALVES

BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVES SHALL BE DUCTILE IRON, RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, M&H, AMERICAN. BUTTERFLY VALVES TO BE USED FOR SIZES Greater than 12".

AIR RELEASE VALVES

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEASE VALVES SHALL BE CRISP IN PRESSURE AIR VALVE TYPE N, APCO OR VALVE & PRIMER CORP.

VALVE BOXES ON BURIED POTABLE WATER MAINS SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH MINIMUM INTERIOR DIAMETEROF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON TOP: WATER, BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL. VALVE BOX PADS SHALL BE 18"x18"x4" THICK CONCRETE WITH #4 REINFORCING BARS. PAD TO BE SET AT FINISHED GRADE WITH RECESSED DETECTOR WIRE CONDUIT PORT PER DETAIL.

WATER SERVICES

UNIFSS OTHERWISE NOTED IN THE PLANS. THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS, CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AND SET METER BOXES TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET.

POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES 1/2" THROUGH 3" SHALL CONFORM TO AWWA C901.88, MIN. 200 PSI. AND SHALL BE PHILLIPS DRISCO CTS 5100 (DR-9) ASTM D-2737, 200 PSI.

POLYFTHYLENE (PF) PRESSURE PIPE FOR WATER SERVICES 1/2" THROUGH 3" SHALL CONFORM TO AWWA

C901.88, MIN. 200 PSI. AND SHALL BE PHILLIPS DRISCO CTS 5100 (DR-9) ASTM D-2737, 200 PSI.

ALL SERVICES SHALL INCLUDE THE FOLLOWING: LOCKING CURB STOPS, WYE BRANCHES, UNIONS AS REQUIRED, PE SERVICE PIPE AND CORPORATION STOPS. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP AS SHOWN ON THE DETAIL SHEET, AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY

MATERIALS AS REQUIRED BY THE CITY OF CLERMONT

WITH THE SERVICE LINES SPECIFIED, AND FITTINGS SHALL BE MANUFACTURED BY FORD.

SERVICE SADDLE - FORD F202 CORPORATION STOP - FORD FB1000 CURB STOP - FORD B41-444W FOR 1" ONLY - FORD BF43-777W FOR 1-1/2"

- FORD BF43-777W FOR 2" METER BOX - SINGLE ONLY (NO DOUBLE METER BOXES ALLOWED), DEXOL WITH IRON READER DOOR WITH TOUCH READ LID. METER BOXES FOR 1-1/2" AND 2" SHALL BE CDR 17"x30" WITH TOUCH READ LID. METER BOXES IN TRAFFIC AREAS SHALL BE BROOKS 36 SERIES WITH TOUCH READ LID.

COMPOUND Y BRANCH - FORD Y44 JOINT RESTRAINT - MEGA LUG

INSTALL OR PROVIDE CITY WITH 1"x 3/4" BRASS BUSHING AT METER DISCHARGE CONNECTION. THE CONTRACTOR SHALL CUT A "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT. SEE WATER SYSTEM DETAILS FOR OTHER SERVICE LOCATION AND MARKING REQUIREMENTS.

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600.87.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPE

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND

WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18" OR A

ALL WATER MAINS SHALL BE INSTALLED WITH RESTRAINED JOINT FITTINGS. NO CONCRETE THRUST BLOCKS

ALL PLUGS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC. SHALL BE PROVIDED WITH MEGALUG PIPE RESTRAINTS. FOR RESTRAINT CONSTRUCTION SPECIFICATIONS, REFER TO THE WATER SYSTEM DETAILS.

BLUE INDICATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE WATER DETAIL

ALL PIPE AND PIPE FITTINGS SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUB-PARAGRAPH 62-555.320(21)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR, (UNDERGROUNI PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN OR AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE. AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED OF THE PIPE. ABOVEGROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

ALL PIPE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.86.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT WATER, WATER METERS, PRESSURE GUAGES AND OTHER EQUIMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER/OPERATOR AND CITY IN WRITTEN FORM, FORTY EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

THE WATER SYSTEM SHALL BE SOAK TESTED 24 HOURS @150 PSI AND TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH ABOVE STANDARDS.

CONTRACTOR SHALL OBTAIN A COPY OF THE FEDP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLES FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT. CONTINUITY TEST SHALL BE PERFORMED ON WIRE BY CONTRACTOR.

CONNECTIONS TO EXISTING WATER MAINS

PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED WATER MAIN SHALL BE DISINFECTED. ANY ADDITIONAL REQUIREMENTS.

AS BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES, THREE SETS SHALL BE PROVIDED FOR REVIEW, ONCE APPROVED BY THE UTILITY, ONE REPRODUCIBLE SET SHALL BE PROVIDED.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- 2. LOCATION OF THE WATER MAIN TIED WITH COORDINATES FOR THE SUBDIVISION.
- ENGINEERING PLANS.
- 5. UTILITY LOCATES ON SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER UNTIL AS-BUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE

SANITARY SEWER NOTES

- 1. ALL GRAVITY SANITARY SEWER MAINS SHALL BE CONSTRUCTED OF DR35 PVC PIPE MEETING ASTM 3034, AND SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
- 2. WHERE REQUIRED, MAINS SHALL BE CLASS 50 DUCTILE IRON PIPE (DIP) MEETING AWWA C150 AND C151. MAINS SHALL BE 60 MIL EPOXY COATED WITH POLYETHYLENE WRAP CONFORMING TO AWWA C105.
- 3. MAINS AND LATERALS WITH LESS THAN THREE (3) FEET OF COVER SHALL BE CLASS 50 DIP.
- 4. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL.
- 5. JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM
- 6. ALL SANITARY MANHOLES SHALL BE PRECAST CONCRETE WITH A MINIMUM WALL THICKNESS OF FIVE (5) INCHES FOR INSIDE DIAMETER OF FOUR (4) FEET.

7. MANHOLES SHALL MEET ASTM C-478. RING AND COVER SHALL BE TRAFFIC BEARING H-20 CLASS 30

- MEETING ASTM A-48. 8. INTERIOR AND EXTERIOR WALLS OF ALL MANHOLES SHALL HAVE A MINIMUM OF TWO (2) 8 MIL COATS OF AN
- 9. ALL MAINS NOT LOCATED UNDER PAVEMENT SHALL BE MARKED BY A THREE (3) INCH WIDE METALLIC LOCATOR TYPE 18" ABOVE THE CENTERLINE OF PIPE. DROP MANHOLE IF INVERT DIFFERENCE IS GREATER THAN OR EQUAL TO TWO (2) FEET.

- 1. ALL SERVICE LATERALS AND FITTINGS SHALL BE A MINIMUM OF 6" IN DIAMETER.
- 2. ALL LATERALS SHALL TERMINATE WITH A 4" CLEAN—OUT AT THE PROPERTY LINE, AND AT A DEPTH TO FINAL GRADE OF 3 FEET. SEE DETAILS FOR LOCATION.
- 3. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x2"x2" ABOVE GRADE WOODEN STAKE OR APPROVED MARKER AND CURB MARKED WITH A '5'.

- 1. FORCEMAINS SHALL BE DR18 PVC PIPE CONFORMING TO AWWA C-900, OR 60 MIL EPOXY COATED CLASS 50 DIP. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.
- 2. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON WITH 250 PSI MINIMUM PRESSURE RATING. SUITABLE COUPLINGS COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR
- 3. METALLIC MARKING TAPE SHALL BE PLACED OVER THE MAIN AT A MAXIMUM DEPTH OF TWO (2) FEET BELOW THE SURFACE AND TIED INTO ALL VALVE BOXES. TESTING FOR CONTINUITY WILL BE REQUIRED.
- 4. ALL MAINS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
- 5. ALL CONNECTIONS TO EXISTING SEWER FORCEMAINS SHALL BE ACCOMPLISHED WITH A WET TAP AND
- 6. PROVIDE JOINT RESTRAINT AS SHOWN ON THE WATER DETAIL SHEET.
- 7. AIR RELEASE AND VACUUM VALVES MANUFACTURER SHALL BE APPROVED BY THE CITY.

- 1. SEWAGE COLLECTION SYSTEM A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TESTS, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEEDURES DESRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
- B. ALL SEWER MAINS SHALL BE LAMPED BY A CITY REPRESENTATIVE C. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT. D. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST
- APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 100 PSI FOR TWO (2) HOURS. E. DEFLECTION TESTS ÀRE REQUIRED FOR ALL FLEXIBLE PIPE. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND

TEMPORARY JUMPER CONNECTION NOTES

A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.

THE DETAIL PROVIDED IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR TAKING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTING OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE HAS BEEN OBTAINED FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED BY THE CITY OF CLERMONT. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM LEVEL OF DISINFECTION and until the FDEP clearance letter is obtained and the lines are placed into service.

ADEQUATE RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED.

PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, 1992 EDITION. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651-

FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE UNDER

- CONTROLLED CONDITIONS BY THE CITY ONLY. THE FOLLOWING PROCEEDURES SHALL BE FOLLOWED: A. THE TIE-IN VALVES SHALL BE OPERATED ONLY BY THE CITY AND PRESSURE TESTED IN THE PRESENCE OF THE CITY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATER-
- TIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE. B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN, FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW! MAIN AS REQUIRED BY THE FDEP PERMIT AND FOR MAINTAINING CHLORINE RESIDUALS IN THE MAINS.
- 1. FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN.
- 2. ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO THE CITY OPENING THE TIE-IN 3. PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN
- MUST NOT DROP BELOW 35 PSI. 4. TIE-IN VALVE SHALL BE OPENED BY THE CITY A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS |
- THE VALVE IS ALWAYS GREATER THAN 10 PSI. C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL THE FLUSHING BEGINS.
- D. THE TIE-IN VALVE SHALL BE OPENED ONLY BY THE CITY FOR FLUSHING OF THE NEW MAIN. THE PROCEEDURE SHALL BE DONE BY THE CITY AND OBSERVED BY THE ENGINEER.

E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSE POSITION BY THE CITY.

THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE RPZ BACK FLOW PREVENTION DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION, AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. THE TEST SHALL BE PERFORMED BY A CERTIFIED BACK FLOW PREVENTION TECHNICIAN AS APPROVED BY THE CITY OF CLERMONT CROSS—CONNECTION CONTROL PROGRAM, A CERTIFICATE IS REQUIRED BY THE CITY.

EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSE POSITION BY THE CITY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER AGENCIES. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS. THERE SHALL BE NO LEAKAGE.

ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACK FLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER METERS SHALL BE PAID FOR AT THE CITY HALL AND SHALL BE DELIVERED TO THE JOB SITE BY THE PUBLIC WORKS DEPARTMENT.

02 - 14 - 05

SIGNATURE AND SEAL

DRAWING FILE

DRAWING

SHEET 2A

ALTAMONTE BVO. 8TF

PIPE INSTALLATION

PROFILE SHEETS FOR REQUIRED DEPTH.

MINIMUM HORIZONTAL CLEARANCE OF 10 FEET FROM ALL SANITARY HAZARDS, INCLUDING STORM DRAINAGE PIPES AND STRUCTURES, AS WELL AS SEPTIC TANKS, DRAIN FIELDS AND SEWER PIPING. IF CLEARANCE CAN NOT BE ACHIEVED, THEN DUCTILE IRON WATER MAIN SHALL BE PROVIDED 10 FEET EITHER SIDE OF THE

TO BE US**ED.**

PIPE IDENTIFICATION

SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE ALONG THE TOP OF THE PIPE: FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP

DISINFECTION AND TESTING

ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.

HAVE ENGINEER APPROVED PRESSURE TESTING AND HAVE FDEP CLEARANCE, REFER TO FDEP PERMIT FOR

- 1. LOCATION OF ALL VALVES, FITTINGS, HYDRANTS AND SERVICES HORIZONTAL AND VERTICAL.
- 3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS. 4. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED

- MAINS AND MANHOLES
- D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-7.
- APPROVED PROTECTIVE COAL TAR EPOXY.

GENERAL NOTES LAST REVISED

FIRE HYDRANTS

FIRE HYDRANTS SHALL CONFORM TO THE LATEST EDITION OF AWWA C502.85 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. ALL HYDRANTS SHALL BE BREAKAWAY TYPE, WITH THE BREAKAWAY SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO, TWO AND ONE—HALF INCH (2-1/2)" HOSE CONNECTIONS, AND ONE, FOUR AND ONE—HALF INCH (4-1/2)" STEAMER CONNECTION 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. SHALL OPEN COUNTERCLOCKWISE, SHALL BE PAINTED IN CONFORMANCE WITH CITY OF CLERMONT REQUIREMENTS (COLORS BASED ON DELIVERED FIRE FLOW) WITH THE PRIMER AND FINISH PAINT BEING SHERWIN WILLIAMS OSHA SAFETY COLOR ENAMEL PAINT. HYDRANTS SHALL BE MUELLER CENTRON (TRAFFIC MODEL A—423) NO SUBSTITUTE. FIRE HYDRANTS TO BE THE BREAK AWAY TYPE WITH A CAST IRON DUCTILE IRON MECHANICAL JOINT HYDRANT TEE, WITH RESILIENT SEAT AND MECHANICAL JOINT GATE VALVE.

- 1. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE CLOSEST TO AND DIRECTLY IN FRONT OF EACH FIRE HYDRANT.
- 2. A POST-CONSTRUCTION FIRE FLOW TEST SHALL BE CONDUCTED. HYDRANTS SHALL DELIVER THE REQUIRED GPM PER THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS WITH A RESIDUAL PRESSURE OF 20 PSI. CONTRACTOR SHALL NOTIFY CITY OF CLERMONT ENGINEERING DEPARTMENT WHEN HYDRANTS ARE READY TO BE FLOW TESTED. FOR FIRE HYDRANTS LOCATED WITHIN THE CITY OF CLERMONT, CONNECTED TO THE CITY OF CLERMONT'S WATER SYSTEM, AND/OR LOCATED WITHIN CLERMONT FIRE DEPARTMENT'S PROTECTION AREA, THIS TEST SHALL BE CONDUCTED BY CITY OF CLERMONT FIRE DEPARTMENT PERSONNEL. THIS TEST SHALL BE PROVIDED BY THE CONTRACTOR FOR LOCATIONS NOT INCLUDED ABOVE. THIS TEST MAY BE WITNESSED BY THE OWNER/OPERATOR IF REQUESTED AT TIME OF NOTIFICATION THAT HYDRANTS ARE READY FOR FLOW TEST.
- 3. IF A PERMIT FOR THE WATER SYSTEM IS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), THE SYSTEM SHALL BE ACCEPTED AND APPROVED BY DEP PRIOR TO BEING PRESSURIZED OFF OF THE CITY SYSTEM AND PRIOR TO ANY FLOW TESTS BEING CONDUCTED.
- 4. FIRE HYDRANTS AND FIRE PROTECTION APPLIANCES SHALL BE KEPT ACCESSIBLE TO THE FIRE DEPARTMENT AT ALL TIMES. THE FOLLOWING CLEARANCES SHALL BE MAINTAINED FOR ALL FIRE HYDRANTS AND FIRE PROTECTION APPLIANCES. CLEARANCE OF SEVEN AND ONE—HALF FEET (7'-6") IN FRONT OF AND TO THE SIDES OF A FIRE HYDRANT, WITH A FOUR FOOT (4') CLEARANCE TO THE REAR OF THE HYDRANT. CLEARANCES OF SEVEN AND ONE—HALF FEET (7'-6") IN FRONT OF AND TO THE SIDES OF THE APPLIANCES. NO PERSON SHALL PLACE OR KEEP ANY POST, FENCE, VEHICLE, GROWTH, VEGETATION, TRASH OR STORAGE OF OTHER MATERIALS THAT WOULD OBSTRUCT A FIRE HYDRANT OR FIRE PROTECTION APPLIANCE AND HINDER OR PREVENT ITS IMMEDIATE USE BY FIRE DEPARTMENT PERSONNEL. SUCH FIRE HYDRANT OR FIRE PROTECTION APPLIANCE SHALL BE KEPT READILY VISIBLE AT ALL TIMES.
- 5. FIRE HYDRANTS SHALL NOT BE LOCATED CLOSER THAN THREE (3) FEET TO OR MORE THAN TWENTY (20) FEET FROM THE EDGE OF A STREET, DRIVE OR OTHER ACCESSWAY. UNLESS OTHERWISE REQUESTED BY THE FIRE OFFICIAL, THE 4-1/2" CONNECTION SHALL FACE THE NEAREST ROADWAY, OR IF LOCATED WITHIN A COMPLEX PARKING AREA, SHALL FACE THE NEAREST TRAFFIC WAY. NO HYDRANT SHALL BE INSTALLED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC WOULD INTERFERE WITH THE USE OF THE HYDRANT. THE STANDARD FIRE HYDRANT APPROVED FOR USE IN THE CITY IS MUELLER MODEL A-423. THE CITY'S STANDARD FIRE HYDRANT DETAIL AND NOTES ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE AND MUST BE INCLUDED IN THE SITE PLANS. ALL FIRE HYDRANTS AND MAINS, INCLUDING THOSE PRIVATELY OWNED, THAT ARE CONNECTED TO THE CITY'S POTABLE WATER SYSTEM, SHALL CONFORM TO CITY STANDARDS.
- 6. A MINIMUM NUMBER OF FIRE HYDRANTS SHALL BE PROVIDED AND/OR AVAILABLE TO PROVIDE EQUAL TO OR GREATER THAN THE NEEDED FIRE FLOW FOR ALL BUILDINGS ON THE SITE BASED ON THE FOLLOWING CREDITS: HYDRANT(S) WITHIN 300 FEET OF THE BUILDING, 1,000 GPM CREDIT; HYDRANT(S) 301 TO 600 FEET, 670 GPM CREDIT; HYDRANT(S) 601 TO 1,000 FEET, 250 GPM CREDIT.

FIRE DEPARTMENT CONNECTIONS

ANY FIRE DEPARTMENT CONNECTION SIAMESE (FDC) FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS MUST BE WITHIN 100 FEET OF A FIRE HYDRANT. THE FDC MAY BE INSTALLED DIRECTLY ON THE DOUBLE DETECTOR CHECK VALVE BACK FLOW PREVENTOR AS LONG AS THE REQUIREMENT TO BE WITHIN 100 FEET OF A FIRE HYDRANT IS COMPLIED WITH. FIRE DEPARTMENT CONNECTIONS SHALL BE IDENTIFIED BY A SIGN THAT STATES, "NO PARKING FIRE DEPARTMENT CONNECTION" AND SHALL BE DESIGNED IN ACCORDANCE WITH FDOT STANDARDS FOR INFORMATION SIGNAGE. THE LOCATION OF ANY FDC MUST BE SHOWN ON THE SITE PLANS UTILITY SHEET.

DEDICATED FIRE MAINS

THE "POINT OF SERVICE" FOR ANY FIRE MAIN MUST BE CALLED OUT ON THE UTILITY SHEET OF THE SITE PLANS. THIS IS THE POINT WHERE A WATER LINE BECOMES DEDICATED TO ONLY FIRE PROTECTION, SUCH AS SUPPLYING ONLY A FIRE HYDRANT OR FIRE SPRINKLER SYSTEM, AND THERE IS NO POTABLE WATER SUPPLY COMING OFF OF THE WATER LINE BEYOND THIS POINT.

FIRE DEPARTMENT ACCESS

FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE AND RULES ESTABLISHED BY THE CITY OF CLERMONT FOR EVERY FACILITY, BUILDING, OR PORTION OF A BUILDING HEREAFTER CONSTRUCTED OR RELOCATED. A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET (15 m) OF AN EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING, FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED SUCH THAT IN ANY PORTION OF THE FACILITY OR ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY OF A BUILDING IS LOCATED NOT MORE THAN 150 FEET (46 m) FROM FIRE DEPARTMENT ACCESS ROADS AS MEASURED BY A ROUTE APPROVED BY THE LOCAL FIRE OFFICIAL AROUND THE EXTERIOR OF THE BUILDING OR FACILITY (THE DISTANCE SHALL BE PERMITTED TO BE INCREASED TO 450 FEET WHEN BUILDINGS ARE PROTECTED WITH AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM THAT IS INSTALLED IN ACCORDANCE WITH NFPA STANDARDS).

FIRE DEPARTMENT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET (6.1 m), AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES (4.1m), SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS (MINIMUM 32 TONS), AND SHALL BE PROVIDED WITH A SURFACE SUITABLE FOR ALL—WEATHER DRIVING CAPABILITIES. THE TURNING RADIUS OF A FIRE DEPARTMENT ACCESS ROAD SHALL BE AS APPROVED BY THE AHJ. DEAD—END FIRE DEPARTMENT ACCESS ROADS IN EXCESS OF 150 FEET (46 m) IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE APPARATUS. WHEN A BRIDGE IS REQUIRES TO BE USED AS PART OF FIRE DEPARTMENT ACCESS ROAD, IT SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS. THE BRIDGE SHALL BE DESIGNED FOR A LIVE LOAD SUFFICIENT TO CARRY THE IMPOSED LOADS OF FIRE APPARATUS (MINIMUM 32 TONS). THE ANGLE OF APPROACH AND DEPARTURE FOR ANY MEANS OF FIRE DEPARTMENT ACCESS SHALL NOT EXCEED 1 FOOT DROP IN 20 FEET (0.3 m DROP IN 6 m), AND THE DESIGN LIMITATIONS OF THE FIRE APPARATUS OF THE FIRE DEPARTMENT SHALL BE SUBJECT TO APPROVAL BY THE AHJ. THE LOAD RATING OF FIRE DEPARTMENT ACCESS ROADS AND BRIDGES SERVING DETACHED ONE OR TWO—FAMILY OCCUPANSIES ONLY MAY BE DECREASED UPON APPROVAL BY THE LOCAL FIRE OFFICIAL.

THE REQUIRED WIDTH OF A FIRE DEPARTMENT ACCESS ROAD SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING BY THE PARKING OF VEHICLES. MINIMUM REQUIRED WIDTHS AND CLEARANCES SHALL BE MAINTAINED AT ALL TIMES. ENTRANCES TO ROADS, TRAILS, OR OTHER ACCESSWAYS THAT HAVE BEEN CLOSED WITH GATES AND BARRIERS SHALL NOT BE OBSTRUCTED BY PARKED VEHICLES. FIRE LANE MARKINGS MUST BE INSTALLED IN ANY LOCATIONS WHERE VEHICLES MAY PARK AND BLOCK TRAFFIC WAYS OR FREE AND CLEAR ACCESS FOR FIRE AND EMERGENCY APPARATUS.

FIRE LANE MARKINGS ON THE PAVEMENT MUST BE IN DOT YELLOW OR RED AND INCLUDE A CROSSHATCH AREA THAT EXTENDS A MINIMUM OF THREE FEET OUT FROM THE CURB. ANY CURBS MUST ALSO BE PAINTED DOT YELLOW OR RED. MARKED TRAFFIC SURFACES MUST HAVE THE WORDS, FIRE LANE — NO PARKING, PAINTED ON THE SURFACE. THIS WORDING MUST REPEAT THE ENTIRE LENGTH OF THE FIRE LANE, AND BE SPACED NO MORE THAN 50 FEET APART. WORDING ON PAVED SURFACES MUST BE A MINIMUM OF 10" TALL. ANY REQUIRED FIRE LANES SHALL BE MARKED WITH SIGNS WITH THE WORDING, "NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT." SUCH SIGNS SHALL BE 12 INCHES BY 18 INCHES WITH A WHITE BACKGROUND AND RED LETTERS AND SHALL BE A MAXIMUM OF 7 FEET IN HEIGHT FROM THE ROADWAY TO THE BOTTOM PART OF THE SIGN. THE SIGNS SHALL BE WITHIN SIGHT OF THE TRAFFIC FLOW AND BE A MAXIMUM OF 50 FEET APART.

A 20' x 20' CROSS—HATCH AREA MUST BE INDICATEDON THE PAVEMENT IN FRONT OF AND CENTERED ON ANY FIRE DEPARTMENT CONNECTIONS FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS THAT ARE LOCATED ON BUILDINGS OR IN PARKING LOTS WHERE VEHICLES MAY PARK AND BLOCK CLEAR ACCESS TO THE CONNECTION. THE CROSS—HATCH AREA MUST INCLUDE WORDING AS SPECIFIED ABOVE. A SIGN INDICATING "NO PARKING FIRE DEPARTMENT CONNECTION" MUST BE INSTALLED IN THIS AREA.

THE CURB MUST BE PAINTED DOT YELLOW OR RED, FOR A LENGTH OF 30 FEET CENTERED ON ANY FIRE HYDRANTS OR FIRE DEPARTMENT SIAMESE CONNECTIONS THAT ARE INSTALLED ALONG A PARKING LOT, DRIVE OR STREET TO PREVENT VEHICLES FROM PARKING WITHIN 15 FEET OF THE HYDRANT OR CONNECTION. WORDING MUST BE PAINTED ON CURBS IN THESE AREAS INDICATING "NO PARKING FIRE LANE" AND MUST BE A MINIMUM OF 3" TALL.

BUILDING MARKINGS

ADDRESS NUMERALS SHALL NOT BE LESS THAN THREE INCHES IN HEIGHT FOR RESIDENTIAL BUILDINGS, STRUCTURES, OR PORTIONS THEREOF, AND AT LEAST SIX INCHES IN HEIGHT FOR ALL OTHER BUILDINGS, STRUCTURES OR PORTIONS THEREOF. ADDRESS NUMERALS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS, NO CURSIVE LETTERS.

COMMERCIAL BUILDINGS

"KNOX BOX" OR "FAILSAFE" LOCK BOXES WILL BE REQUIRED ON ALL COMMERCIAL BUILDINGS (NFPA 1 CHAPTER 3-6 AS ADAPTED IN THE FLORIDA FIRE PREVENTION CODE THROUGH FLORIDA ADMINISTRATIRVE CODE CHAPTER 4A-60.003. RULES OF THE STATE FIRE MARSHAL, AND AUTHORIZED BY FLORIDA STATUTES 633.0215. 633.025). THESE SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE BUILDING WITHIN ONE FOOT OF THE LEFT SIDE OF THE MAIN PUBLIC ENTRANCE DOOR AT A HEIGHT OF SIX (6) FEET. IN THE CASE OF A MULTI-OCCUPANCY BUILDING, SUCH AS A ROW OF STORES, MULTI-OFFICE BUILDING, ETC., ONLY ONE LOCK BOX PER BUILDING WILL BE REQUIRED UNLESS EXTENUATING CIRCUMSTANCES INDICATE THE NEED FOR ADDITIONAL LOCK BOXES. THIS BOX SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE BUILDING WITHIN ONE FOOT OF THE LEFT END OF THE SIDE OF THE BUILDING CONTAINING THE MAIN PUBLIC ENTRANCE (AS YOU ARE FACING THE MAIN ENTRANCE) AT A HEIGHT OF SIX (6) FEET. IN THE CASE OF A MULTI-FAMILY COMPLEX, ONLY ONE LOCK BOX WILL BE REQUIRED FOR THE COMPLEX UNLESS EXTENUATING CIRCUMSTANCES INDICATE THE NEED FOR ADDITIONAL LOCK BOXES. THIS BOX SHALL BE LOCATED AT THE MAIN ENTRANCE TO THE CLUBHOUSE, INSTALLED AS INDICATED ABOVE FOR COMMERCIAL BUILDINGS. IF THERE IS NO CLUBHOUSE, THE BOX SHALL BE INSTALLED PER A CITY FIRE OFFICIAL. A CITY FIRE OFFICIAL MAY BE CONTACTED IF IT IS NOT POSSIBLE TO INSTALL THE BOX AT THE LOCATIONS INDICATED ABOVE. THE CITY FIRE OFFICIAL WILL MAKE A DETERMINATION AS TO THE LOCATION WHERE THE BOX WILL BE INSTALLED.

LOCK BOXES SHALL CONTAIN KEYS TO THE BUILDING (INCLUDING ENTRANCE DOORS AND ALL ELECTRICAL AND MECHANICAL ROOMS) AND ANY SYSTEMS IN THE BUILDING (SUCH AS FIRE ALARM PANELS, FIRE ALARM PULL STATIONS, SMOKE DETECTOR RESET, SPRINKLER SYSTEMS, ELEVATORS, ETC.). BOXES FOR MULTI-OCCUPANCY BUILDINGS AND MULTI-FAMILY COMPLEXES SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE KEYS FOR EACH INDIVIDUAL OCCUPANCY AND MASTER KEYS FOR EACH SEPARATE BUILDING, AS WELL AS ANY SYSTEMS IN ALL OCCUPANCIES AND BUILDINGS. ALL LOCK BOXES SHALL ALSO CONTAIN BUSINESS CARDS WITH AFTER-HOURS EMERGENCY CONTACT NUMBERS FOR EACH OCCUPANCY. THE CODE(S) FOR SILENCING AND RESETTING ANY FIRE ALARM SYSTEMS SHALL BE WRITTEN ON THE BACK OF THE BUSINESS CARD(S) FOR EACH OCCUPANCY.

APPLICATIONS FOR THE PURCHASE OF "KNOX BOX" OR "FAILSAFE" EQUIPMENT ARE AVAILABLE FROM THE FIRE DEPARTMENT. EACH BOX TO BE INSTALLED WITHIN THE CITY OF CLERMONT WILL BE KEYED TO ACCOMMODATE CLERMONT FIRE DEPARTMENT'S LOCK BOX KEY. BUILDING OWNERS OR OCCUPANTS WILL NOT HAVE A KEY TO THE BOX. THE OWNER OR DEVELOPER SHALL NOTIFY THE FIRE DEPARTMENT (352–394–7662) AFTER THE BOX HAS BEEN INSTALLED AND ALL REQUIRED KEYS ARE AVAILABLE. A FIRE DEPARTMENT REPRESENTATIVE WILL MEET A REPRESENTATIVE OF THE BUILDING AT THE SITE TO LOCK THE KEYS IN THE BOX. WHENEVER ANY KEYS, CODES OR EMERGENCY CONTACT NUMBERS ARE CHANGED, THE FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY SO A FIRE DEPARTMENT REPRESENTATIVE CAN UNLOCK THE BOX AND REPLACE THE CHANGED ITEMS.

BUILDING MATERIALS

NFPA 241 (STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS) AS ADAPTED IN THE FLORIDA ADMINISTRATIVE CODE (RULES OF THE STATE FIRE MARSHALL) AND THE FLORIDA FIRE PREVENTION CODE, AND AUTHORIZED BY FLORIDA STATE STATUTES, CHAPTER 633, REQUIRES THAT A WATER SUPPLY FOR FIRE PROTECTION SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ACCUMULATES ON THE SITE AND THAT THERE SHALL BE NO DELAY IN THE INSTALLATION OF FIRE PROTECTION EQUIPMENT. THIS SECTION ALSO STATES, "WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.

EMERGENCY VEHICLE ACCESS CONTROL (EVAC) SYSTEM

THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS, SECTION 110–192 (1), REQUIRES THAT ALL GATED COMMUNITIES IN THE CITY OF CLERMONT INSTALL THE "EVAC" (EMERGENCY VEHICLE ACCESS CONTROL) REMOTE GATE OPENING EQUIPMENT ON ALL ENTRY GATES. THE EVAC SYSTEM SHALL BE IN ADDITION, AND SEPARATE, FROM THE GATE OPENING SYSTEM THAT IS PROVIDED FOR THE RESIDENTS. A KEYPAD CODE ENTRY DEVICE SHALL ALSO BE INSTALLED AT EACH GATE, WITH THE ENTRY CODE SUPPLIED TO THE FIRE DEPARTMENT IN WRITING UPON INSTALLATION. THE DEVELOPER SHALL PROVIDE FIVE (5) CONTROLLERS FOR THE EVAC SYSTEM TO THE CLERMONT FIRE DEPARTMENT. FOR FURTHER REQUIREMENTS REFER TO THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS, SECTION 110–192 (1). SECURITY ACCESS CONTROL, 800–637–5945, DISTRIBUTES THE EVAC SYSTEM. SECURITY ACCESS CONTROL MAY BE CONTACTED REGARDING ANY QUESTIONS ABOUT THE SYSTEM OR TO GET INFORMATION ON LOCAL VENDORS THAT CAN INSTALL THE SYSTEM.

NEEDED FIRE FLOW CALCULATIONS

NEEDED FIRE FLOW CALCULATIONS FOR ALL BUILDINGS ON THE SITE BASED ON THE ISO FIRE SUPPRESSION RATING SCHEDULE GUIDE FOR NEEDED FIRE FLOW CALCULATIONS SHALL BE SHOWN ON THE SITE PLANS. THE INSURANCE SERVICES OFFICE (ISO) GUIDE FOR CALCULATING THE NEEDED FIRE FLOW CAN BE FOUND ON THE ISO WEB SITE AT http://www.isomitigation.com/downloads/ppc3001.pdf, THE FIRE FLOW CALCULATIONS ARE BASED ON A NON—SPRINKLERED BUILDINGS PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM ARE THEN GIVEN CREDIT BASED ON 50% OF NEEDED FIRE FLOW PLUS SPRINKLER SYSTEM REQUIREMENTS. THIS CALCULATION IS USED AS ONE OF THE FACTORS IN DETERMINING THE NUMBER OF FIRE HYDRANTS REQUIRED ON THE SITE.

A NEEDED FIRE FLOW CALCULATION WORKSHEET IS AVAILABLE IN MS EXCEL FORMAT AT THE CITY OF CLERMONT WEB SITE: www.cityofclermontfl.com, CITY DEPARTMENTS, FIRE DEPARTMENT, INSPECTIONS/PREVENTION.

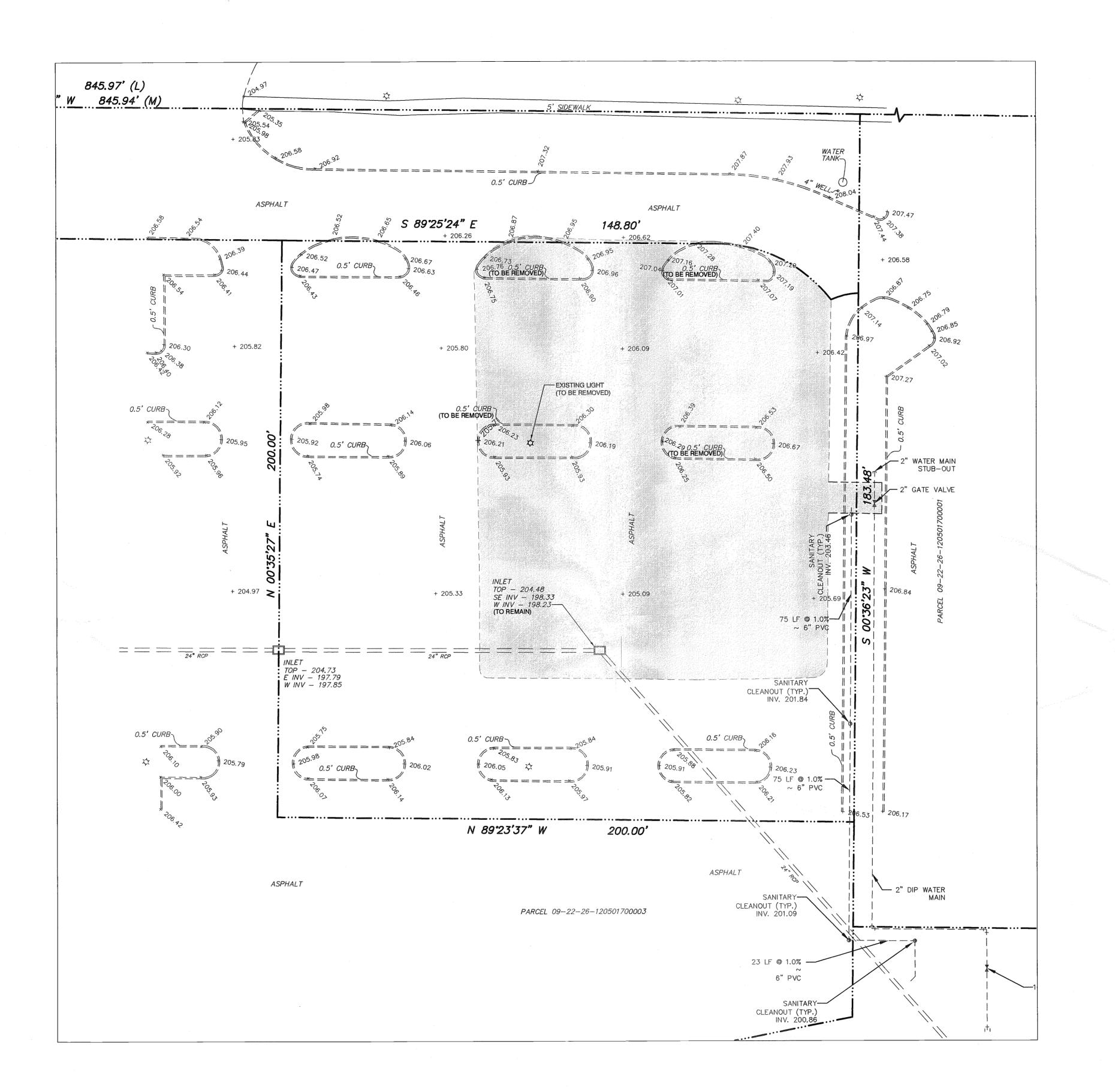
FINAL APPROVAL OF SITE PLANS

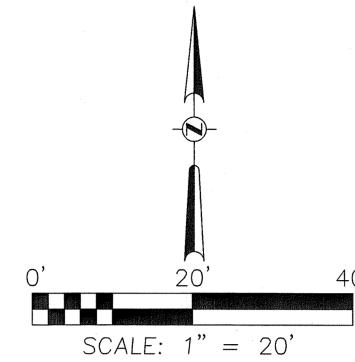
AFTER REVIEW OF THE SITE PLANS BY THE CITY OF CLERMONT SITE REVIEW COMMITTEE, THE SITE PLANS, AS APPROVED BY THE CITY, SHALL BE SUBMITTED TO LAKE COUNTY BUILDING DEPARTMENT FOR A FIRE AND LIFE SAFETY REVIEW CONDUCTED BY A LAKE COUNTY BUILDING DEPARTMENT PLANS EXAMINER. SITE PLANS WILL NOT RECEIVE FINAL APPROVAL UNTIL AFTER BEING REVIEWED AND APPROVED BY LAKE COUNTY BUILDING DEPARTMENT.

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GENERAL NOTES LAST REVISED

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DEMOLITION LEGEND



LIMITS OF DEMOLITION

DEMOLITION NOTES

1. CONTRACTOR TO DEMOLISH AND REMOVE ALL IMPROVEMENTS WITHIN LIMITS OF DEMOLITION SHOWN UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLITION DEBRIS.

THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED DEMOLITION AND REMOVAL PERMITS.

- CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
- THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION, SEE CLEARING & EROSION CONTROL NOTES ON DETAIL SHEET.
- UTILITIES TO BE PLUGGED SHALL BE FILLED WITH A MINIMUM 1.0 CUBIC FT. OF NON—SHRINK GROUT OR AS OTHERWISE APPROVED BY ENGINEER.
- 5. ALL TREES ON SITE SHALL BE REMOVED UNLESS OTHERWISE INDICATED ON THIS PLAN AND/ORTHE LANDSCAPE PLAN.
- 6. THE CONTRACTOR SHALL COORDINATE THE REMOVALE/RELOCATION OF EXISTING UTILITES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE.
- 7. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED.
- 8. THE CONTRACTOR SHALL BARRICADE THE SITE AND CONTROL TRAFFIC PER CURRENT FDOT TRAFFIC CONTROL STANDARDS.
- 9. ANY EXISTING WELLS THAT MAY EXIST ON SITE WILL BE ABANDONED AND SUBJECT TO REMOVAL. NEW MONITOR WELLS WILL BE INSTALLED IF REQUIRED BY GEOTECHNICAL ENGINEER.
- 10. CONTRACTOR TO LOCATE AND REMOVE EXISTING SEPTIC TANKS AND DRAINFIELDS PER LOCAL HRS REGUATIONS.

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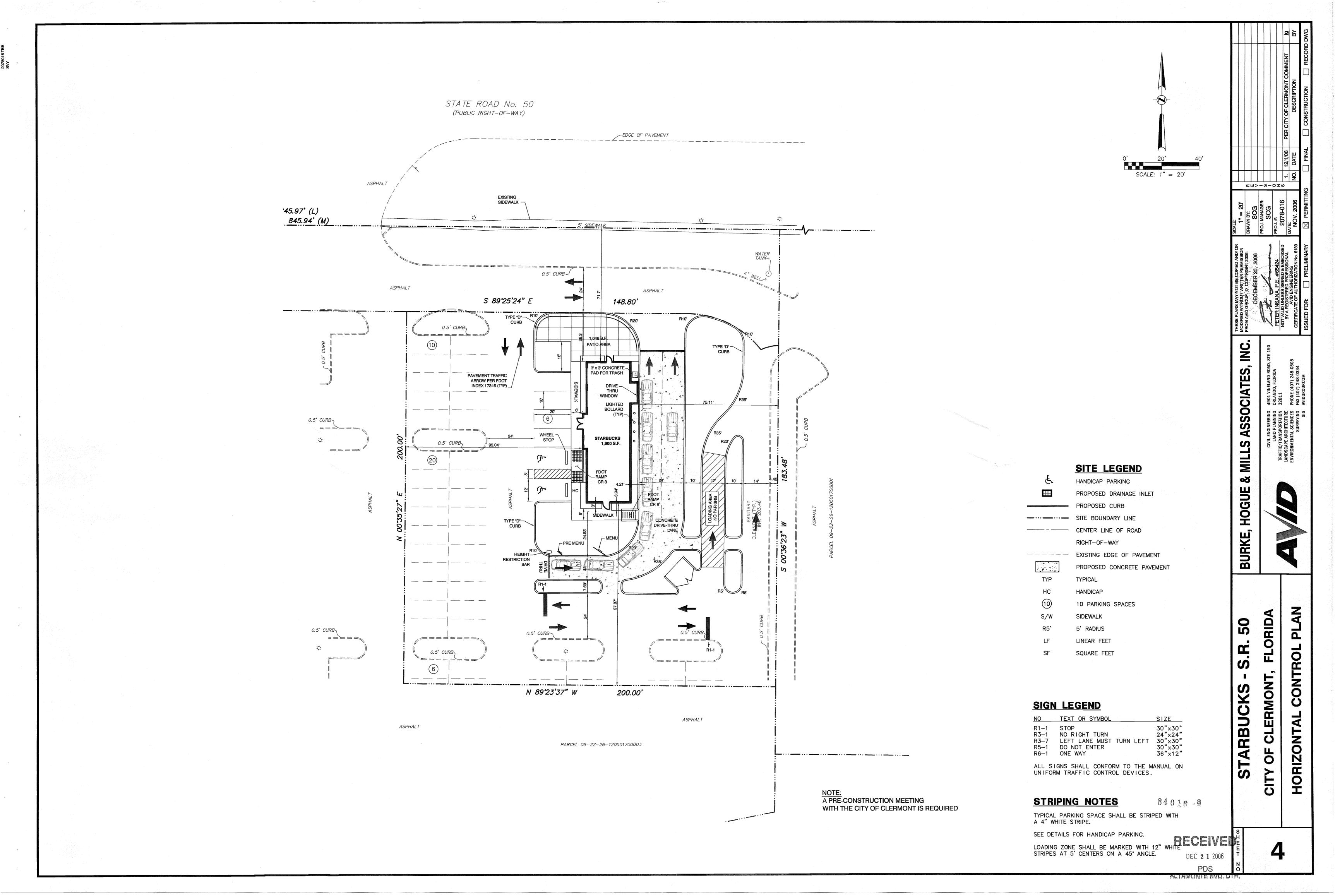
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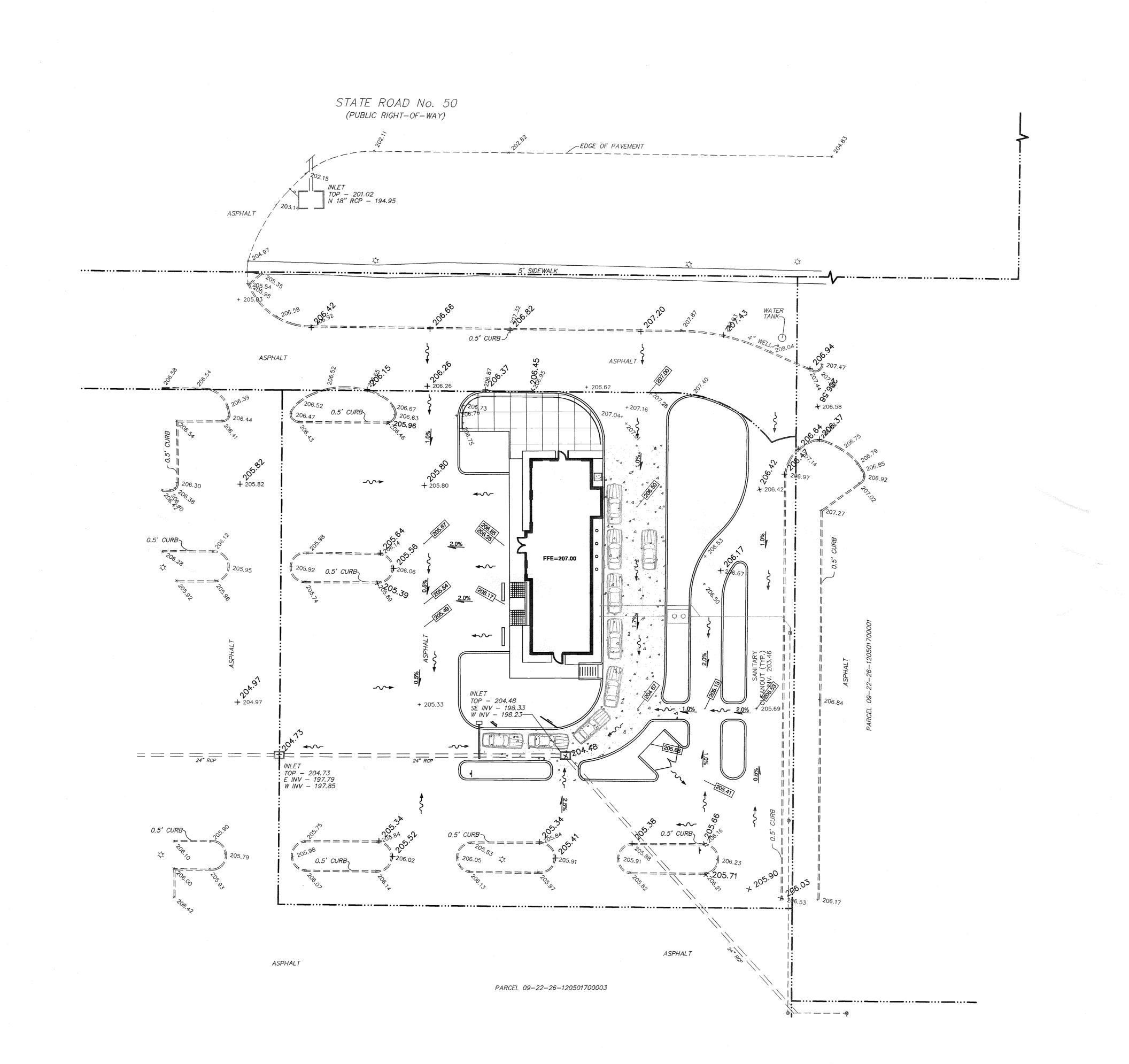
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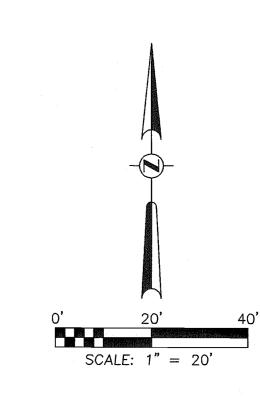
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GRADING LEGEND

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TYP TYPICAL

CO CLEANOUT

IE INVERT ELEVATION

HC HANDICAP

×49.58 EXISTING ELEVATION

EXISTING ELEVATION
PROPOSED SPOT ELEVATION
DRAINAGE INLET

MITERED END SECTION

PROPOSED SWALE STORMWATER FLOW

EXISTING SWALE STORMWATER FLOW

SURFACE STORMWATER FLOW

DIRECTION OF STORM WATER FLOW
SD STORM DRAIN

HCAP HELICALLY CORRUGATED ALUMINUM PIPE
ERCP ELLIPTICAL REINFORCED CONCRETE PIPE

FFE FINISH FLOOR ELEVATION

S/W SIDEWALK

STORM SEWER STRUCTURE NUMBER

ASPHALT PAVEMENT

EROSION CONTROL

CONCRETE PAVEMENT

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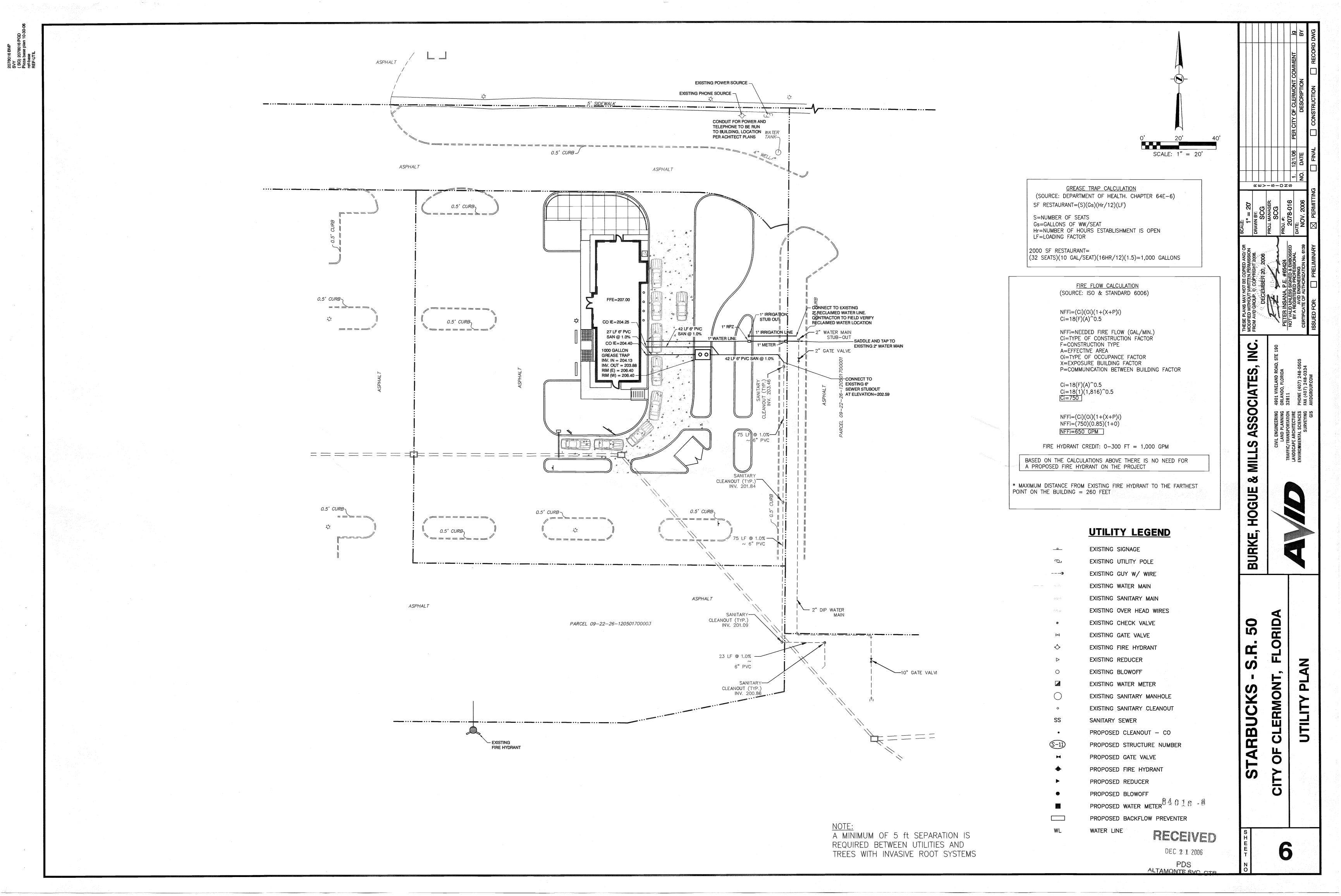
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3. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED. A BRIEF DESCRIPTION OF THE STRUCTURES IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY 4. THE FOLLOWING LIST OF STRUCTURES REQUIRING

DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED A. DEMOLITION AND REMOVAL OF EXISTING ON-SITE ASPHALT, CONCRETE, AND BUILDINGS. B. REMOVAL OF EXISTING ON-SITE ABOVEGROUND AND UNDERGROUND UTILITIES, INCLUDING

REMOVAL OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS 5. PRIOR TO ANY REMOVAL OF ANY UNDERGROUND TANK AND OTHER COMPONENT, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL TO AN APPROVED LOCATION.

6. ALL ON-SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVER EXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE OF CLEAN, FINE SAND, AASHTO CLAS A-3 AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) 7. ALL THE CONCRETE AND PAVEMENT TO BE REMOVED MUST BE SAW CUT OF FAN PRIOR TO REMOVAL

8. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR, REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE; DEMOLISH COMPLETELY ON THE

9. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH 10. ELECTRICAL, TELEPHONE, CABLE, AND/OR GAS LINES

NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS A NECESSITY TO PROVIDE A SMOOTH TRANSITION IN UTILITY 11. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND

PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS, STREETS AND SIDEWALKS SHALL NOT BE UNNECESSARILY BLOCKED BY DEBRIS AND EQUIPMENT 12. WET DOWN MASONRY WALLS AND DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST 13. USE A CARBORUNDUM SAW WHENEVER MASONRY OR CONCRETE IS TO BE REMOVED WITHIN EXISTING STRUCTURES. AIR HAMMERS OR OTHER DEVICES WILL BE PERMITTED ON

EXTERIOR WORK. 14. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING DEMOLITION/ EXCAVATION PROCESS. 15. DISPOSAL

A. FILL FOR LOWER LEVELS OF DEMOLISHED STRUCTURES MAY INCLUDE CONCRETE OR MASONRY RUBBLE RESULTING FROM DEMOLITION, SUBJECT TO THE E/A'S APPROVAL RUBBLE SHALL NOT EXCEED 12 INCHES IN LONGEST DIMENSION. B. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND

PAVEMENT REMOVAL A. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION B. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR

THE PURPOSE OF CONSTRUCTING OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES EACH ITIES OR STRUCTURES SAID PAVEMENT FTC SHALL B REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL, CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, PAINT, AND EQUIPMENT REQUIRED. 17. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE

SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES. 18. PERMITTING: IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION FROM RESPONSIBLE REGULATORIES AND FULLY ACKNOWLEDGE AND COMPLY WITH ALL REQUIREMENTS PRIOR TO REQUIREMENTS COMMENCING DEMOLITION WORK.

19. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.

20. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED. 21. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THIS SHEET BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR. 22. ALL EXISTING UTILITIES WITHIN THE R.O.W. SHALL BE ADJUSTED, REMOVED OR RELOCATED AT THE CONTRACTOR'S EXPENSE. ACTUAL WORK SHALL BE COORDINATED BY THE CONTRACTOR DIRECTLY W/ THE APPROPRIATE UTILITY COMPANY. ALL EXPENSES SHALL BE INCLUDED IN THE

23. THE CONTRACTOR SHALL CONTACT THE GAS UTILITY, FOR LOCATION BEFORE EXCAVATION. CHAPTER 17-153 F.S. REQUIRES THAT AN EXCAVATOR NOTIFIES ALL GAS UTILITIES AT LEAST TWO DAYS PRIOR TO EXCAVATING. ALSO CALL 1-800-432-4770 FOR SUNSHINE LOCATES. 24. CONTRACTOR TO PROVIDE TREE PROTECTION PER DETAIL AS REQUIRED IS BY LOCAL JURISDICTION. 25. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION. 26. ALL TRASH, DEBRIS AND OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, AND

FEDERAL REGULATIONS. **EROSION AND SEDIMENTATION CONTROL NOTES**

MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE TO BURKE, HOGUE & MILLS ASSOCIATES, INC. THE CONTRACTOR IS RESPONSIBLE FO 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 CONTROLS 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 ON-SITE INSPECTIONS BY THE OWNER. THEIR REPRESENTATIVES OR THE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORM WATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE JURISDICTIONAL

AUTHORITIES. FLOODPLAIN

CONTRACTOR'S BID.

THE SUBJECT PROPERTY IS DESIGNATED AS "ZONE X" AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP (FIRM). ORANGE COUNTY, FLORIDA, COMMUNITY PANEL NO. 12095C0435 E. DATED DECEMBER 6, 2000.

EROSION CONTROL NOTES

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC AND THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT, CHAPTER 40C-4 AND 40C-40.

A PORTION OF SECTION 28, TOWNSHIP 22 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHEAST CORNER OF THE NORTHEAST 1/4 OF SECTION 28, TOWNSHIP 22 SOUTH, RANGE 28 EAST, LAKE COUNTY, FLORIDA; THENCE RUN S 0050'10" W ALONG THE EAST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 28 A DISTANCE OF 1373.53 FEET; THÊNCE DEPARTING SAID EAST LINE RUN N 89'22'20" W, A DISTANCE OF 477.01 FEET; THÊNCE RUN S 00'36'23" W, A DISTANCE OF 52:17 FEET TO THE POINT OF BEGINNING; THÊNCE CONTINUE S 0036'23" W, A DISTANCE OF 183.48 FEET; THENCE RUN N 89'23'57" W, 20.00 FEET; THENCE RUN N 00'35'27" E, 200.00 FEET; THENCE RUN S 89'25'24" E, A DISTANCE OF 148.80 FEET TO A POINT OF CURVATURE O. A CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF SOLOT FEET, AN INCLUDED ANGLE OF 54:32'12", A CHOR BEARING S 64-58/36" E AND A CHORD DISTANCE OF 45.88 FEET, RUN 47.66 FEET ALONG THE ARC OF SAID CURVE TO A POINT ON A NON-TANGENT CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 25.00 FEET, AN INCLUDED ANGLE OF 22:31'50", A CHORD BEARING OF N 76'32'04" E, AND A CHORD DISTANCE OF 9.77 FEET, RUN 9.83 FEET ALONG THE ARC OF SAID CURVE TO THE POINT OF BEGINNING.

CONTAINING 39.620.62 SQUARE FEET OR 0.909 ACRES MORE OR LESS.

1. DESCRIPTION: (OVERALL PROPERTY)

2. SITE CONDITIONS & ACTIVITIES NARRATIVE: A. THE EXISTING CONDITION OF THE SITE IS ASPHALT PAVEMENT / PARKING LOT. B. SITE OPERATOR (CONTRACTOR) SHALL PREPARE A CONSTRUCTION SCHEDULE THAT INCLUDES THE DATE GRADING WILL BEGIN AND THE EXPECTED DATE OF STABILIZATION AND SHALL INCLUDE THE CONSTRUCTION SCHEDULE AS PART OF THIS STORM WATER POLUTION

3. SEQUENCE OF IMPLEMENTATION OF CONTROLS: A. INSTALLATION OF CONTROL MEASURES.

B. CLEARING, GRUBBING AND EXCAVATION. C. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE BUILDING, SITE DEVELOPMENT, AND INFRASTRUCTURE NECESSARY TO SERVE THE PROPOSED SITE. D. FINAL STABILIZATION.

4. ESTIMATE OF TOTAL PROJECT AREA AND AREA TO BE DISTURBED: A. THE TOTAL PROJECT AREA IS: ± 0.91 ACRE B. THE AREA TO BE DISTURBED IS: ± 0.39 ACRE

5. ESTIMATE OF RUNOFF COEFFICIENTS, EXISTING SOIL DATA: A. THE ESTIMATED RUNOFF COEFFICIENT BEFORE CONSTRUCTION: C = 0.85 B. THE ESTIMATED RUNOFF COEFFICIENT AFTER CONSTRUCTION: C = 0.75 C. THE ESTIMATED RUNOFF COEFFICIENT DURING CONSTRUCTION: C = 0.75 TO 0.85

6. THE SOILS IDENTIFIED ON SITE ARE CHANDLER, GROUP A AND B.

7. RECEIVING WATERS

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 ON-SITE 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 IS NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN SHOULD BE ONLY THE SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE

EROSION AND SEDIMENT CONTROLS

1. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIRLE 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.

TOLERANCES ESTABLISHED BY ANY TO THE APPLICABLE JURISDICTIONAL AUTHORITIES.

2 EYCAVATED 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. 3. 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 RESTABILIZED, IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNTS OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER. OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP. 4. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

5. 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

6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES 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.

PROTECTION OF SURFACE WATERS

1. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS. 2. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. 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 **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 REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED 3. 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.

STORM WATER MANAGEMENT

STORM WATER FROM THE PROPOSED DEVELOPMENT WILL BE COLLECTED IN A MASTER WET DETENTION STORMWATER POND PRIOR TO DISCHARGING AT PRE-DEVELOPMENT RATES.

THE CONTRACTOR IS REQUIRED TO INSPECT AND MAINTAIN CONTROLS WEEKLY AND WITHIN 24 HOURS AFTER A RAINSTORM IN EXCESS OF 0.25 INCHES.THE INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND CONTRACTOR AND MAINTAINED FOR FUTURE REFERENCE AS NEEDED. SHALL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL. INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

1. THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR THE STARBUCKS SR-50, AVID JOB #:2078-016, AS PREPARED BY AVID ENGINEERS, INC.-ARE HEREBY REFERENCED AND MADE A 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP TO THE FOLLOWING ADDRESSES:

ENVIRONMENTAL PROTECTION 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32399-2400

A. NPDES STORMWATER NOTICES CENTER, MS #2510 FLORIDA DEPARTMENT, OF

APPROVED STATE AND LOCAL PLANS OR PERMITS THE FOLLOWING PERMITS HAVE BEEN ISSUED FOR THE CONSTRUCTION OF

MAINTENANCE OF EROSION CONTROL DEVICES IS OF PARAMOUNT IMPORTANCE TO BURKE, HOUGE & MILLS, ASSOCIATES, INC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POLLUTION PREVENTION CONTROLS. DAILY REVIEW SHALL BE MADE BY THE CONTRACTOR TO DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS OF EROSION, SEDIMENTATION, TURBIDITY, AND POLIUTION CONTROL MEASURES, CORRECTIVE ACTION SHALL BE PERFORMED IMMEDIATELY. THE CONTRACTOR WILL COMPLETE A REPORT DETAILING MEASURES THAT ARE NOT ACHIEVING PERMIT COMPLIANCE AND THE CORRECTIVE ACTION THAT IS TAKEN. UNLESS OTHERWISE SPECIFIED, ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH

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

GOOD HOUSEKEEPING
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO COMPLETE THE PROJECT. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE LINDER A ROOF OR OTHER CONTAINED ENCLOSURE, PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURE'S LABELED CONTAINERS SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURE. WHENEVER POSSIBLE, ALL OF THE PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURE'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS, PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED: THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURE'S OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE, PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDINGLY TO THE MANUFACTURE'S

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

ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE, EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURES' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS, CONCRETE TRUCKS: CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.

NON STORMWATER DISCHARGE

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

1. WATER FROM WATER LINE FLUSHING. 2. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). 3. UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON-STORM WATER DISCHARGES SHALL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

IT IS EXPECTED THAT THE FOIL OWING NON-STORM WATER DISCHARGES SHALL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: CONCRETE, FERTILIZERS, DETERGENTS, PETROLEUM BASED PRODUCTS AND FUELS, PAINTS (ENAMEL AND LATEX) METAL STUDS, CLEANING SOLVENTS, GLASS, WOOD, TAR, MASONRY BLOCK, SAND, ROOFING SHINGLES, STONE

WASTE DISPOSAL

WASTE MATERIALS - ALL WASTE MATERIAL SHALL BE COLLECTED AND CONTAINED IN A CONTROLLED AREA PURSUANT TO STATE AND LOCAL SOLID WASTEREGULATIONS ALL TRASH AND CONSTRUCTION DERRIS GENERATED FROM CONSTRUCTION IS TO BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE ON SITE OFFICE TRAILER AND THE CONSTRUCTION MANAGER RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

<u>HAZARDOUS WASTE</u> - IF ENCOUNTERED, ALL WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY STATE AND/LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE - ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE AND LOCAL CODE.

CONTROL OF WIND EROSION 1. BARE FARTH 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. 2. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH

AREAS SHALL BE VEGETATED. 3. 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.

SPILL CONTROL PRACTICES

WITH HAZARDOUS SUBSTANCE.

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

MANUFACTURES' RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN UP SHALL BE KEPT

IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL

INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES

GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC AND METAL TRASH

THE SPILL SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR

APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT

SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE

PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND THE CLEAN UP

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY TO DAY SITE

THE CLEAN UP MEASURES SHALL ALSO BE INCLUDED.

APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE

THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO

PROCEDURES FOR FUTURE USE. A DESCRIPTION OF THE SPILL, ITS CAUSE AND

OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEAN UP COORDINATOR

SPILL PREVENTION AND CLEAN UP TRAINING, THESE INDIVIDUALS SHALL EACH

POSTED IN THE MATERIAL STORAGE AREA OR IN THE OFFICE TRAILER ON SITE,

HE OR SHE SHALL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE

BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND

CLEAN UP. THE NAMES OF THE RESPONSIBLE SPILL PERSONNEL SHALL BE

A NOTICE OF TERMINATION SHALL BE SUBMITTED TO THE EPA AFTER THE

CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL

ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE

PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN UP

4. 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 SPECIFIC DATES OR CONSTRUCTION ACTIVITIES. **B.** ALTERATIONS TO THE DESIGN EROSION AND SEDIMENT CONTROLS DUE TO DIFFERENCES

BETWEEN THE DESIGN PLANS AND ANTICIPATED CONSTRUCTION PHASING AND THE CONTRACTOR'S CONSTRUCTION METHODS. C. NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE

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

RESPONSIBLE FOR

AND INSTALL ALL NECESSARY PERMANENT EROSION CONTROLS. E. THE DEVELOPMENT OF THE APPLICABLE BMP'S 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 WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS

AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION. 5. 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.

THE STORM WATER FACILITIES FOR THIS PROJECT: SJRWMD PERMIT #: 40-069-84016-1 ON FEBRUARY 12, 2003 MAINTENANCE

ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.

CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE—CALL OF FLORIDA, INC. @ 1-800-432-4770 FOR LOCATION OF PARTICIPATING UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-PARTICIPATING UTILITIES INDIVIDUALLY.

0.5' CURB

0.5' CURB -

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CONTRACTOR TO HAVE INLET PROTECTION ON ANY OFFSITE STORM INLET EFFECTED BY PROPOSED CONSTRUCTION / STORMWATER RUNOFF UNTIL ALL SITE IMPROVEMENTS ARE

OWNER CERTIFICATION

ASPHALT

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

SIGNATURE:

r....)

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

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0.5' CURB

ASPHALT

EXISTING STORM SEWER PIPE

PROPOSED FLOW LINE

EXISTING STORM INLET / CONTROL STRUCTURE

PROPOSED GRAVEL/STABILIZED SUB-BASE (PER

GEOTECHNICAL ENGINEERS REQUIREMENTS)

PROPOSED INLET PROTECTION AROUND STORM INLET

PROPOSED LEGEND

PROPOSED SILT FENCE

SIGNATURE COMPANY NAME AND ADDRESS SIGNATURE: _ ADDRESS: **GENERAL CONTRACTOR** 84016-8 PHONE: COMPANY: SIGNATURE: _ ADDRESS: PHONE:____ COMPANY:

ADDRESS:

PHONE:

0 HOGUE BURKE

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ALTAMONTE SVO. OTP.

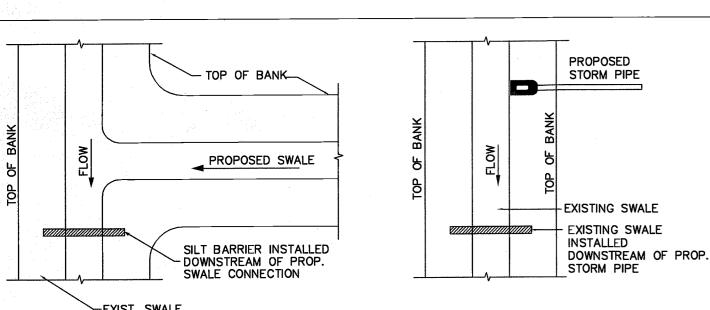
STABILIZED CONSTRUCTION ENTRANCE

EARTH DIKES, SEDIMENT BASIN

ORMWA

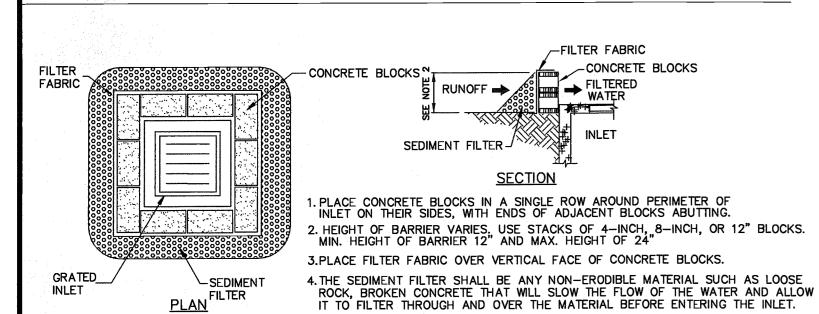
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED
- MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT OF THE SILT FENCE.

SEDIMENTATION/SILT FENCE W/ WIRE SUPPORT



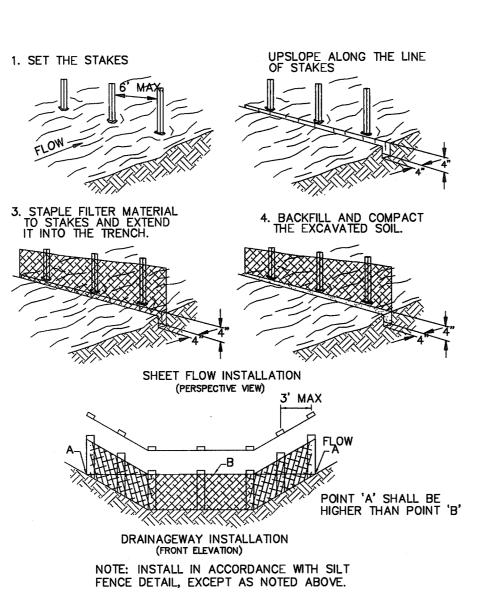
SILT BARRIER AT **CONNECTION OF SWALE TO EXISTING SWALE**

SILT BARRIER AT **CONNECTION OF STORM PIPE TO EXISTING SWALE** N.T.S.



BLOCK AND AGGREGATE INLET SEDIMENT FILTER

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%) 2. 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.



SEDIMENTATION/SILT FENCE WITHOUT WIRE SUPPORT

FABRIC EXTENDS 1

FLOW

- BARE GROUND

SHEET FLOW

TEMPORARY

SOD LIMITS

SEDIMENT SUMP

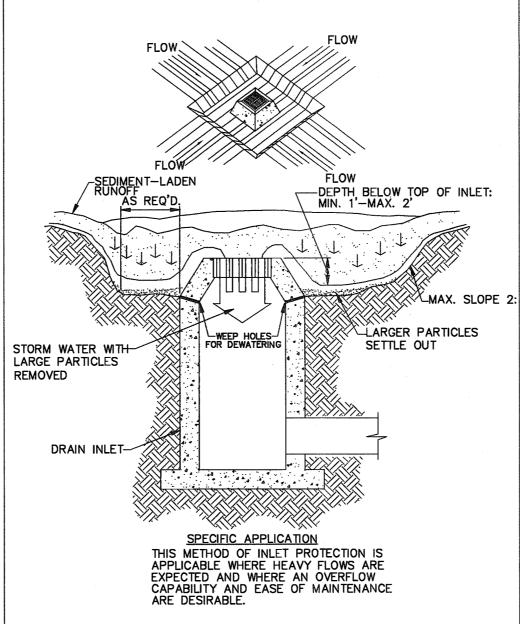
TEMPORARY SEDIMENT

SUMP

N.T.S.

WITH GRATE * FABRIC UNDER GRATE

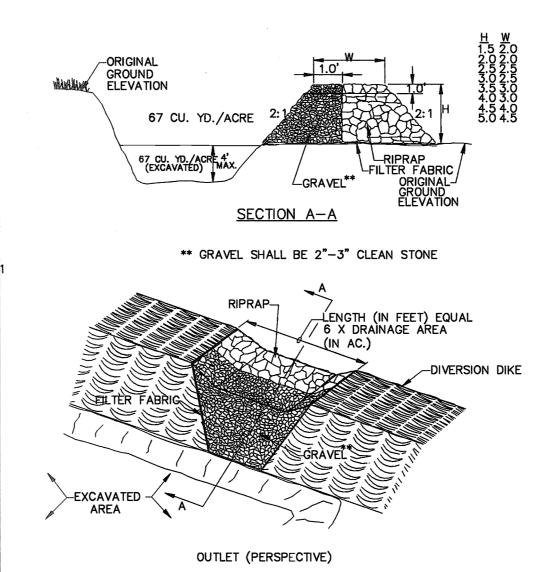
PLAN VIEW



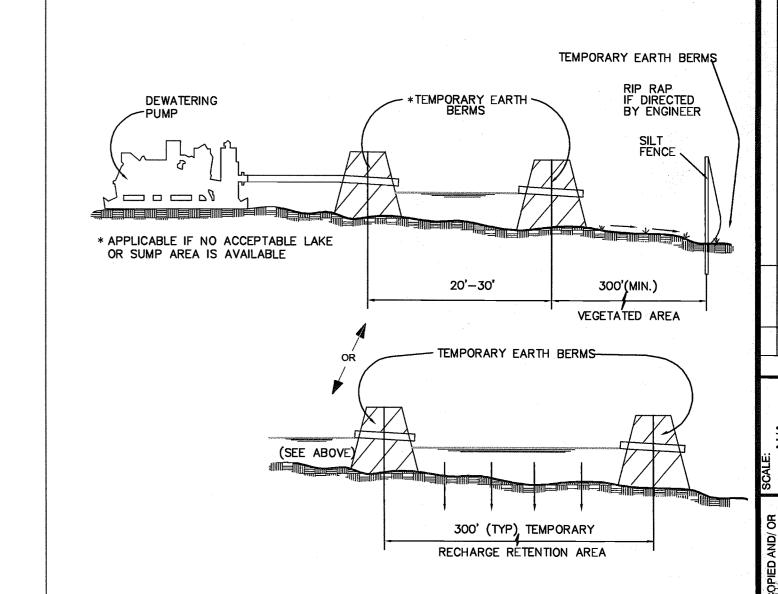
EXCAVATED INLET SEDIMENT TRAP

SWALE

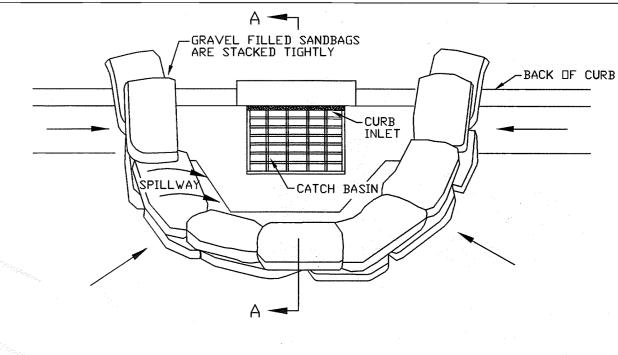
TEMPORARY DIKE IF NEEDED

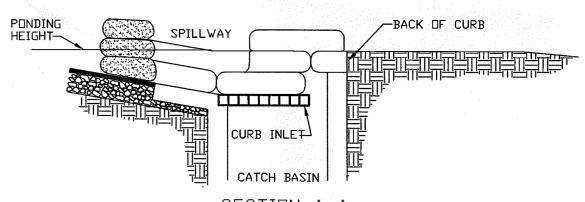


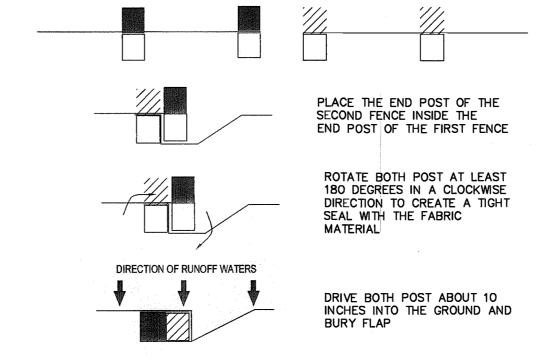
TEMPORARY SEDIMENT TRAP



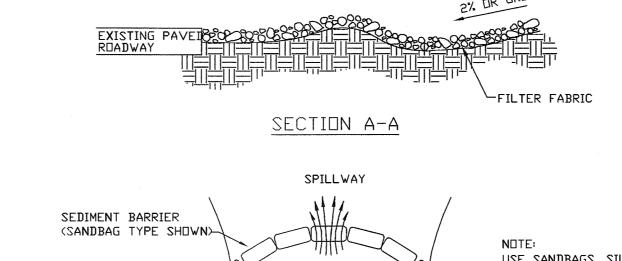
TYPICAL DEWATERING DISCHARGE PLAN



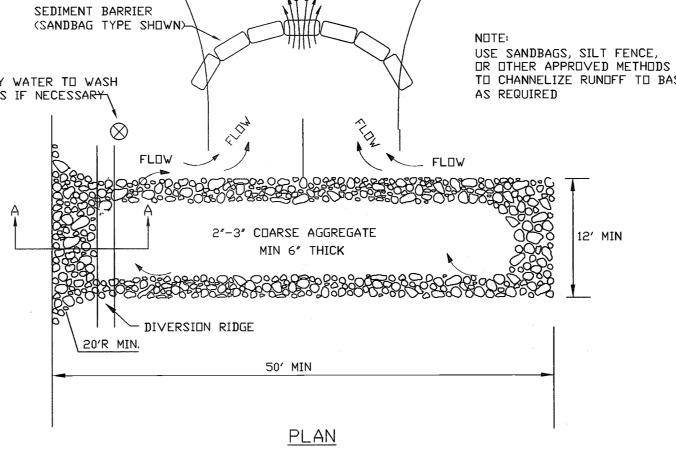




ATTACHING TWO SILT FENCES



DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%



- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-DF-WAY. 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP

TEMPORARY CONSTRUCTION ACCESS DETAIL

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ETAILS

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EVENTION

POLLUTION

STORMWATER

ASSOCIATE

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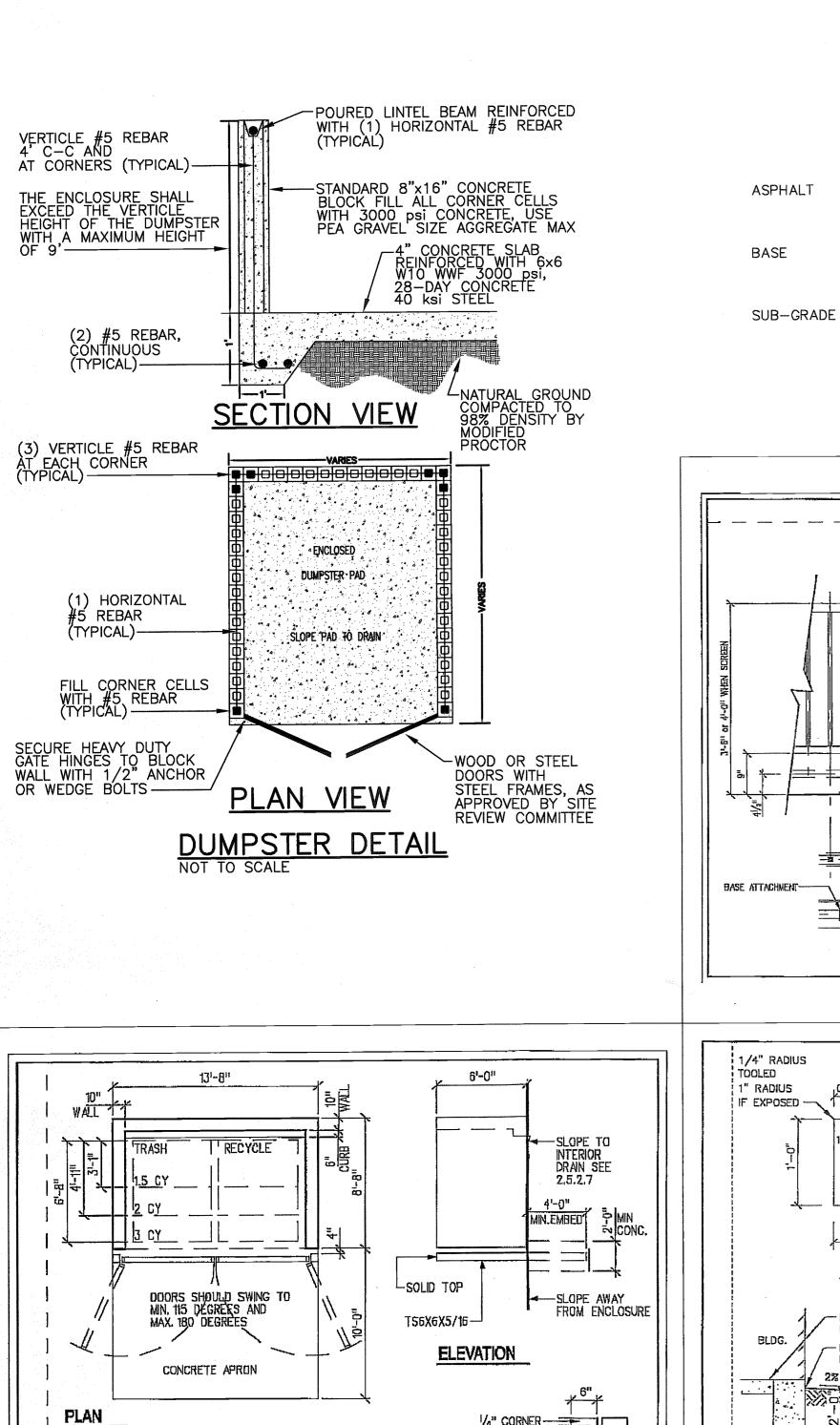
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ALTAMONTE SVC. CTR.

84016-8

HOGUE BURKE SECTION A-A 1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET GATHER EXCESS-AT CORNERS SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF 2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY 3 LEAVE DNE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW 4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY, SEDIMENT TO CHANNELIZE RUNDFF TO BASIN SUPPLY WATER TO WASH AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY ORID, WHEELS IF NECESSARY **CURB INLET PROTECTION DETAIL** SILT FENCE INLET PROTECTION



-TS4X2X1/4

%" DIA BAR/LATCH-

1/4" PIPE 8" LENGTH-

THE ARCHITECT AND / OR ENGINEER OF
RECORD ARE REQUIRED TO DESIGN THE
STRUCTURE (INCLUDING THE CONCRETE SLAB.)
TO COMPLY WITH CODE, JURISDICTIONAL AND
2.5 - Site Amenities

ELEVATION

THE TRASH ENCLOSURE IS SIZED TO ACCOMMODATE VARYING CONTAINER

REQUIREMENTS AND SIZES.

TRUCK SIZE REQUIREMENTS

SURROND/MITRE

SLOPE TOP AND-CHANFER EDGES

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50G a

STARBUCKS COFFEE COMPANY

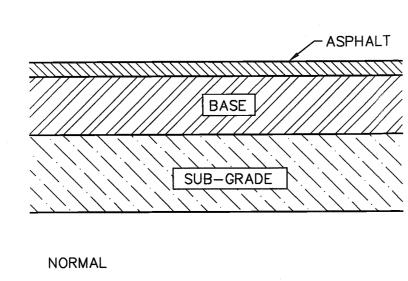
Drive-thru Site Planning & Development Standards

2.5.2.5 Trash Enclosure Planning and Detail Standards

GENERAL CONSTRUCTION

DETAIL

252-GRAPHICAL INFORMATION



1.5" **ASPHALT**

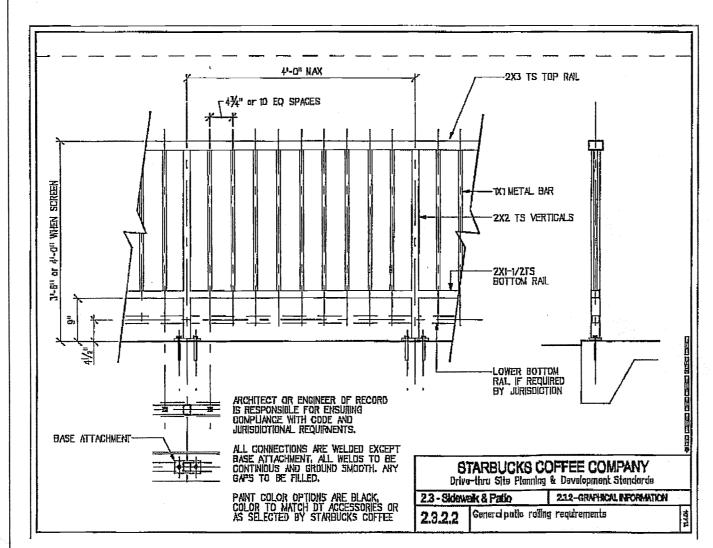
TYPE III ASPHALTIC CONCRETE SURFACE COURSE

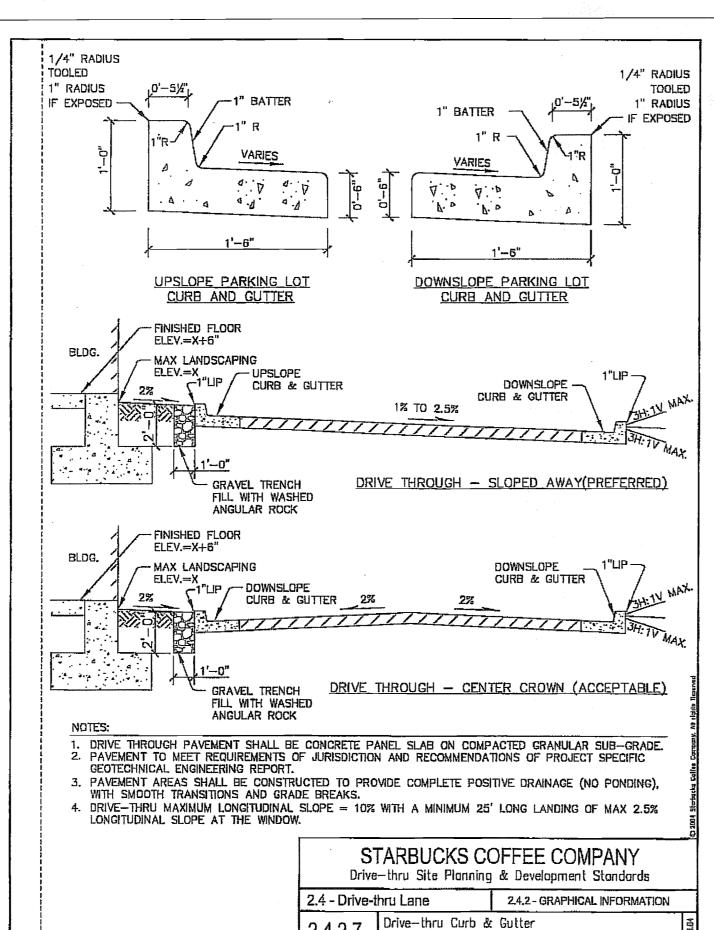
SOIL CEMENT BASE - PRIMED 300 PSI AT 7 DAYS COMPACTED TO 97% AASHTO T-134

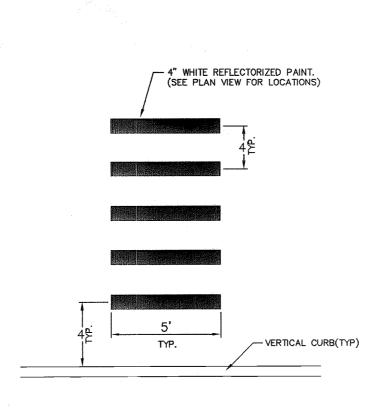
NORMAL COMPACTED SUB-GRADE LBR 20 HEAVY DUTY COMPACTED SUB-GRADE LBR 40 COMPACTED TO 98% AASHTO T-180

TYPICAL PAVEMENT SECTION

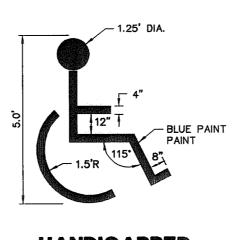
PAVE-3.DWG 02/16/96 NTS



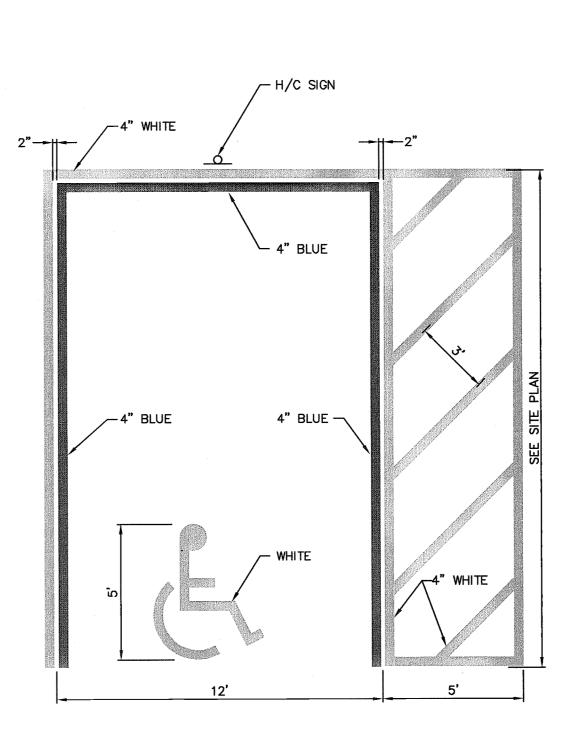




PEDESTRIAN ACCESS STRIPPING



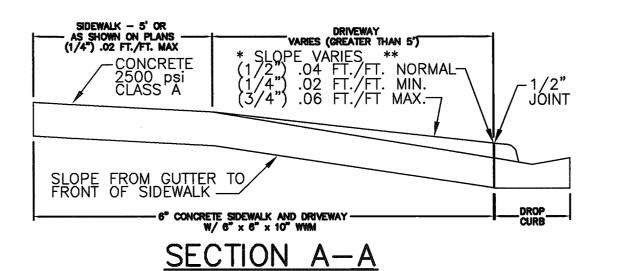
HANDICAPPED PAVEMENT SYMBOL DETAIL



HANDICAP PARKING PAVEMENT MARKING

HC-PARK1.DWG 09/18/95 NTS

1/8" OPEN JOINTS PLACED
AT EQUAL (20' MAX)
INTERVALS FOR DRIVEWAYS
OVER 20' WIDE. JOINTS
IN CURB AND GUTTER
TO MATCH JOINTS IN DRIVEWAY— 1/8" OPEN JOINTS AT 10' CENTERS DUMMY JOINT __1/2" JOINT ∕—4" CONCRETE SIDEWALK 4" CONCRETE SIDEWALK DRIVEWAY DROPCURB 4 4 4 PLAN VIEW WHEN DISTANCE BETWEEN CURB AND SIDEWALK IS GREATER THAN 5 FEET



* SLOPES CAN BE ADJUSTED WITHIN THE RANGES SHOWN TO IMPROVE TIES TO ADJACENT PROPERTY AND ARE TO BE TRANSITIONED TO AVOID DISTORTION BE TRANSITIONED TO AVOID DISTORTION IN SIDEWALK CONTINUITY

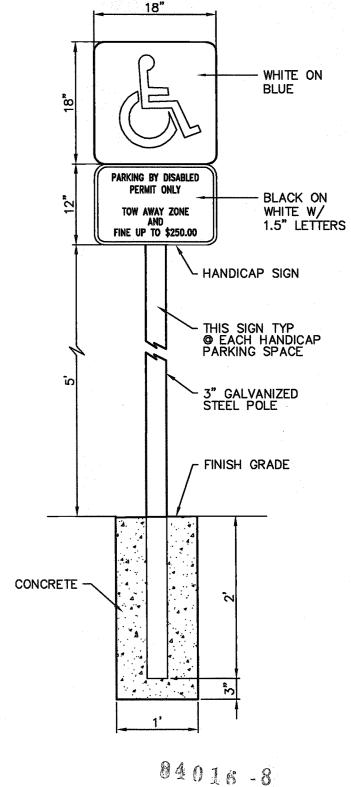
** SPECIAL PERMISSION MAY BE OBTAINED TO INCREASE OR DECREASE SLOPE OF DRIVEWAY TO IMPROVE TIES TO SIDEWALL AND GUTTER GRADE NOTE: DRIVEWAYS AND SIDEWALKS THROUGH DRIVEWAYS SHALL REQUIRE 6" x 6" REINFORCEMENT WIRE.

CHECK AND VERIFY THESE ITEMS: ☐ 6" W/WIRE
☐ 3' TAPER CUT SQUARE

* SLOPE VARIES **

(1/2") .04 FT./FT. NORMAL
(1/4") .02 FT./FT. MIN.
(3/4") .06 FT./FT MAX.

5' SIDEWALK TO R/W SIDEWALK AND PAVED DRIVEWAY CONSTRUCTION NOT TO SCALE



84016 -8 HANDICAP SIGN

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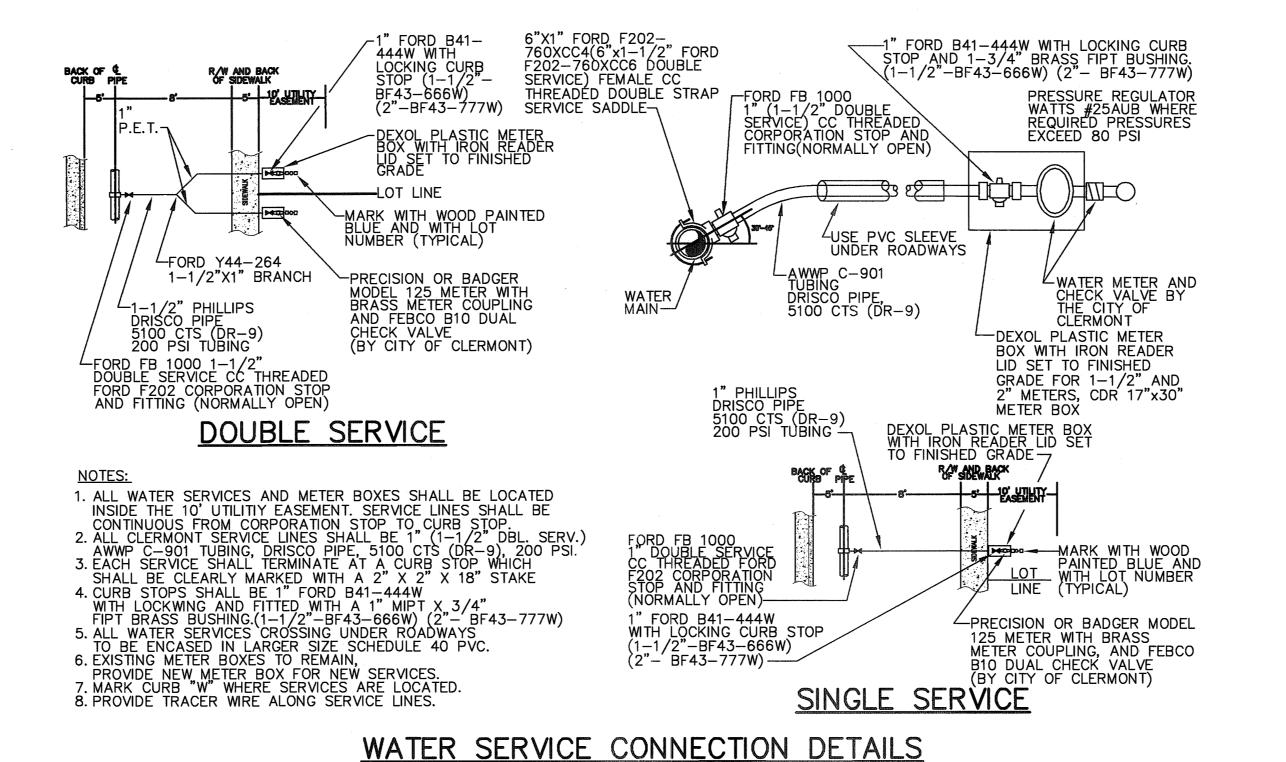
ASSOCIATES,

HOGUE

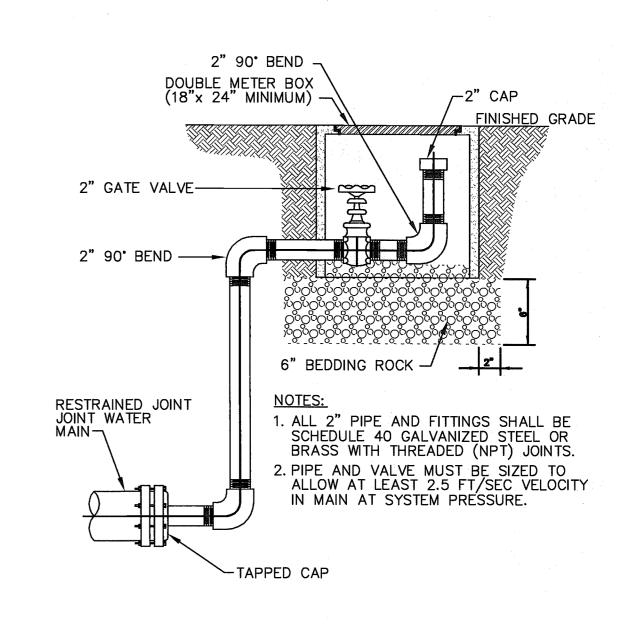
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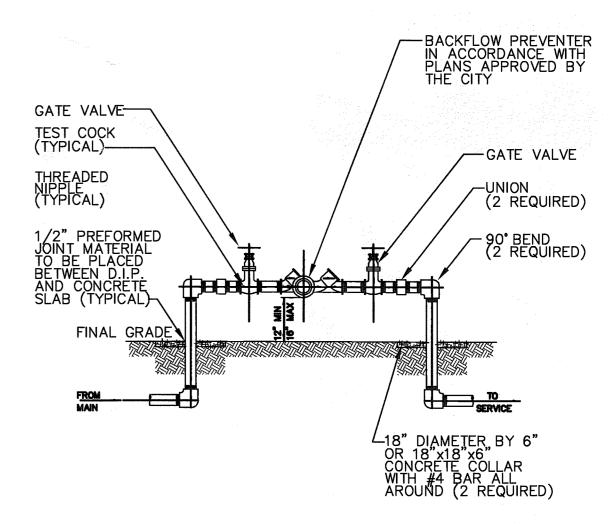
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NOT TO SCALE



BLOWOFF VALVE DETAIL NOT TO SCALE



REDUCED PRESSURE
BACKFLOW PREVENTER
NOT TO SCALE

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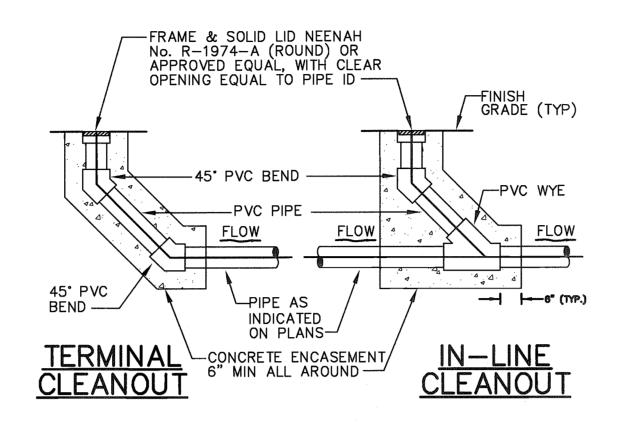
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OF

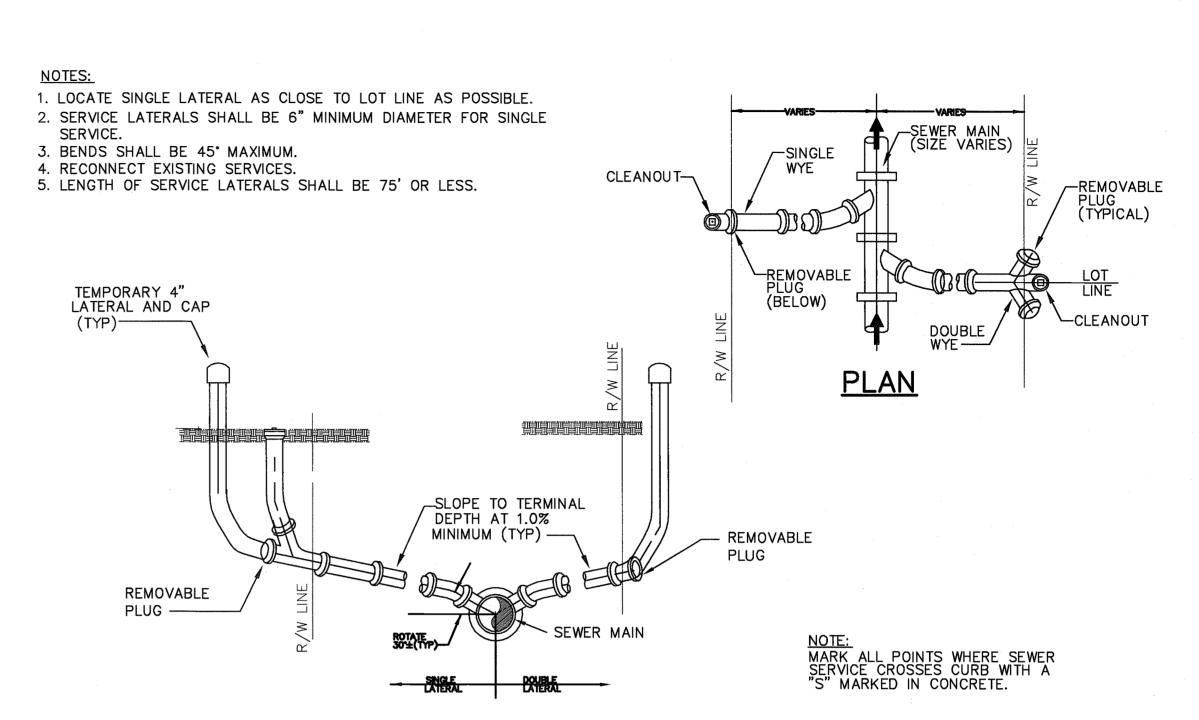
CITY

DETAILS

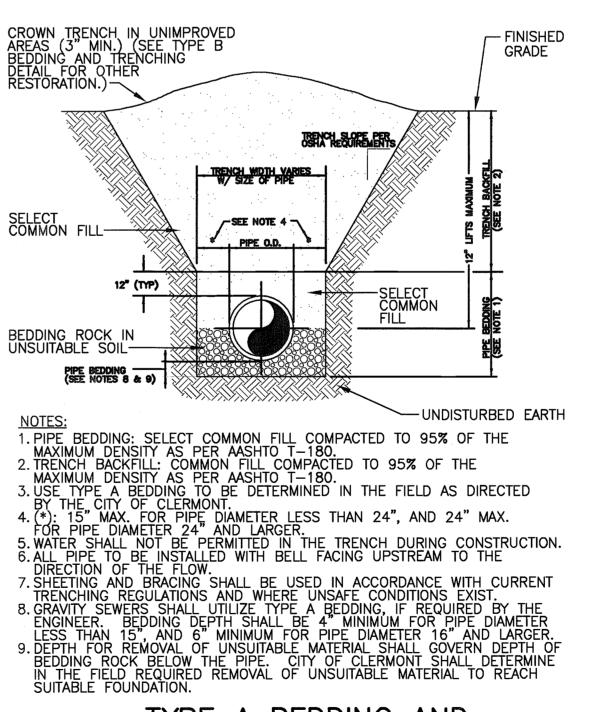
WATER



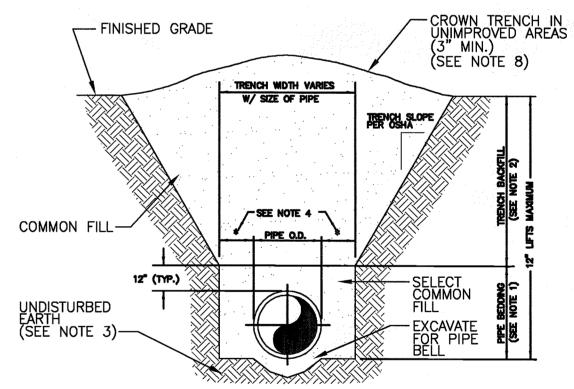
CLEANOUT DETAIL
IN PAVED AREAS



SEWER SERVICE RISER CONNECTION DETAILS NOT TO SCALE



TYPE A BEDDING AND TRENCHING DETAIL NOT TO SCALE



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T—180.

2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T—180.

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 THE ENGINEER.

4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. 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

WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE
DIRECTION OF THE FLOW.
 SHEETING AND BRACING SHALL BE USED IN ACCORDANCE WITH CURRENT
TRENCHING REGULATIONS AND WHERE UNSAFE CONDITIONS EXIST.
 FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH
ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE
RESTORATION WITHIN CITY OF CLERMONT RIGHT—OF—WAY SHALL COMPLY
WITH REQUIREMENTS OF RIGHT—OF—WAY UTILIZATION REGULATIONS AND
ROAD CONSTRUCTION SPECIFICATIONS.

TYPE B BEDDING AND TRENCHING DETAIL NOT TO SCALE

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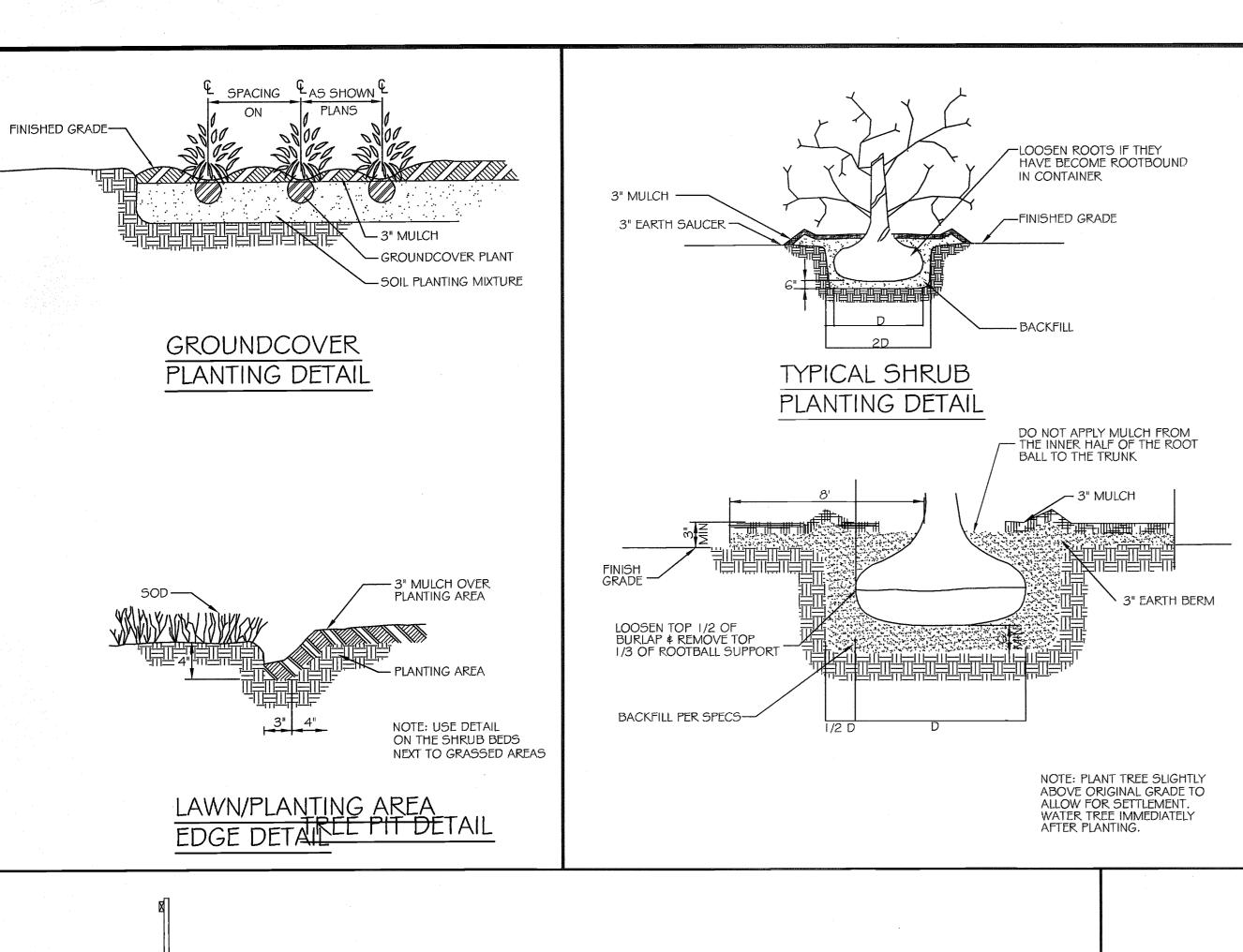
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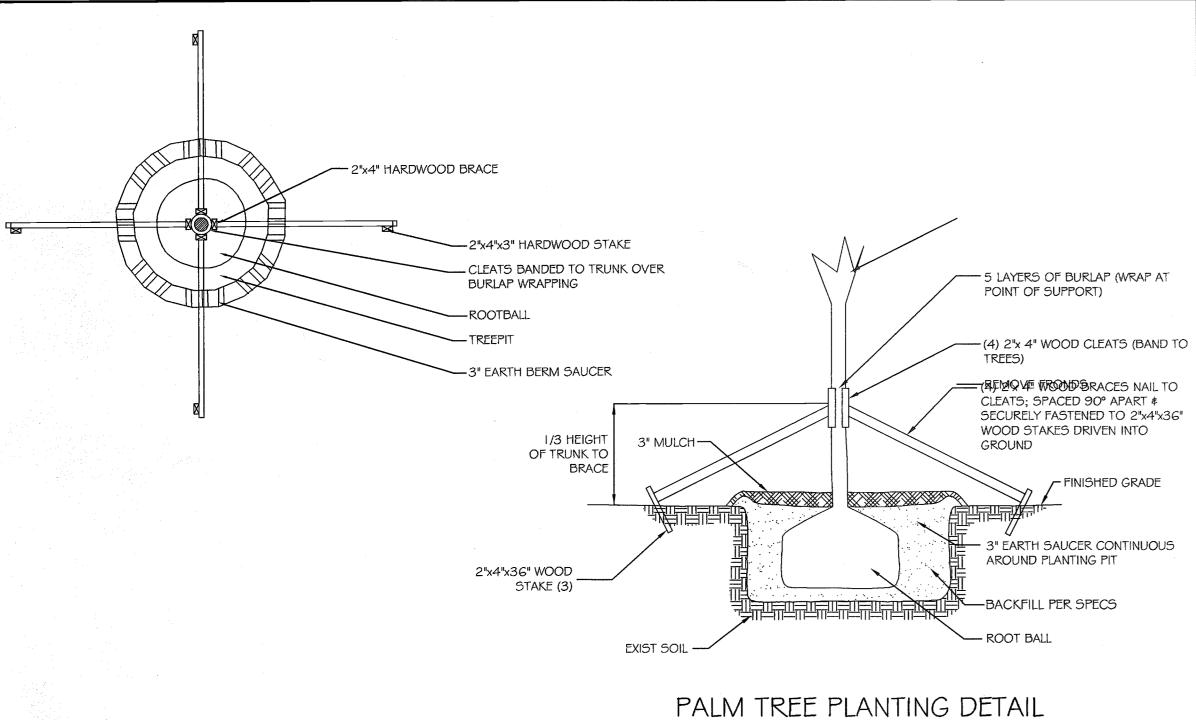
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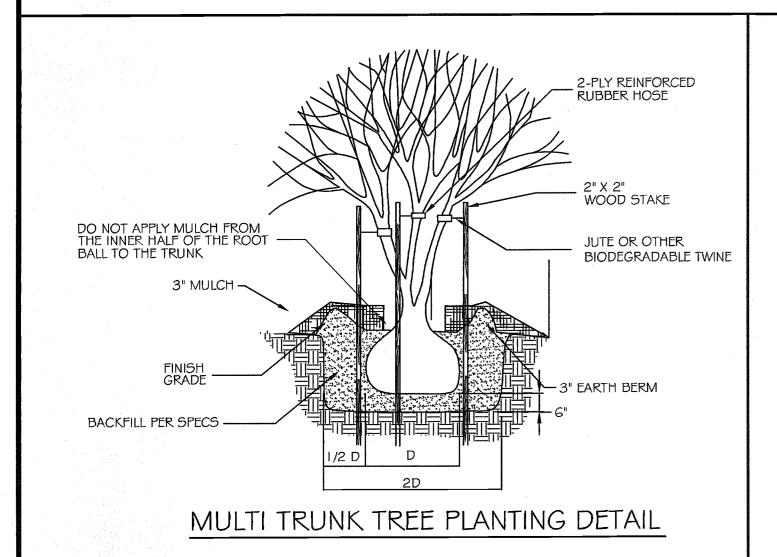
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DETAIL

SEWER

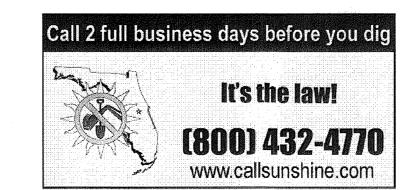


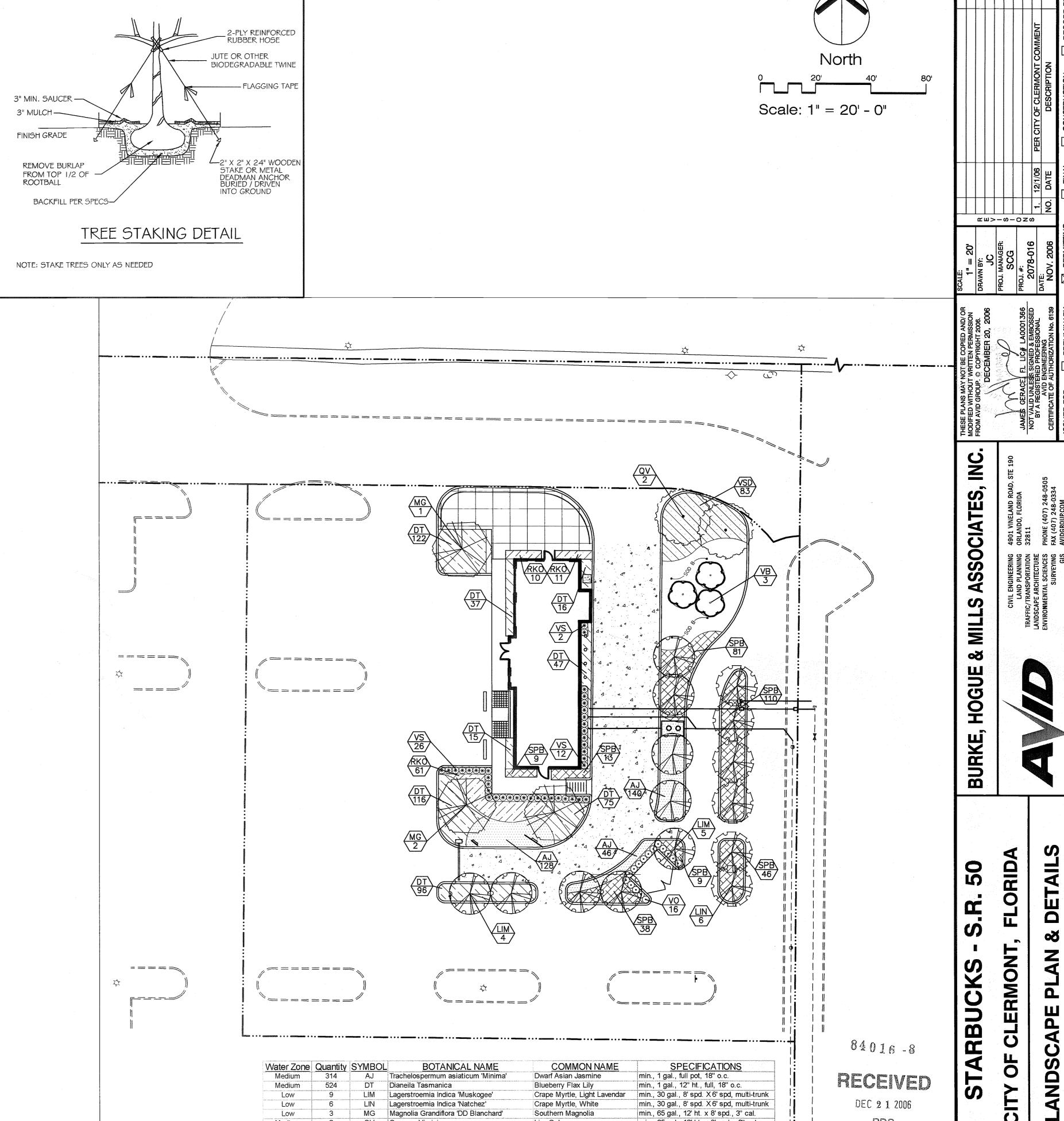




NOTE: STAKE TREES ONLY AS NEEDED

A MIINIMUM 5 FT. SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES WITH INVASIVE ROOT SYSTEMS.





Blueberry Flax Lily Lagerstroemia Indica 'Muskogee' Crape Myrtle, Light Lavendar min., 30 gal., 8' spd. X 6' spd, multi-trunk Lagerstroemia Indica 'Natchez' Crape Myrtle, White min., 65 gal., 12' ht. x 8' spd., 3" cal. Magnolia Grandiflora 'DD Blanchard' Southern Magnolia min., 65 gal., 12' ht. x 8' spd., 3' cal. Knock Out Rose min., 3 gal., 24" ht. x 24" spd. min., 1 gal., 24" overall height, 24" o.c. Cord Grass Walter's Viburnum Sandakwa Viburnum Mrs. Shiller's Delight Viburnum min., 3 gal., 18" ht. x 18" spd., 30" o.c.

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I. I DESCRIPTION OF WORK

AWARDED BIDDER SHALL PROVIDE AND INSTALL TREES, SHRUBS AND SOD IN ACCORDANCE WITH THE LANDSCAPE PLAN AND SPECIFICATIONS.

1.2 DEFINITIONS

A. "FINAL ACCEPTANCE" SHALL MEAN THAT POINT IN TIME WHEN ALL REQUIREMENTS OF PROJECT DRAWINGS ARE COMPLETED, INCLUDING ANY PUNCH-LIST ITEMS, TO THE SATISFACTION OF THE CUSTOMER. THE AWARDED BIDDER SHALL BE NOTIFIED OF FINAL ACCEPTANCE BY THE CUSTOMER OR THEIR REPRESENTATIVE.

- B. "MAINTENANCE PERIOD" OR "WARRANTY PERIOD" SHALL BEGIN WHEN PLANT MATERIAL IS INSTALLED AND CONTINUE FOR A TWELVE (12) MONTH PERIOD AFTER NOTIFICATION OF FINAL ACCEPTANCE.
- C. "FINAL MAINTENANCE INSPECTION" SHALL OCCUR AT THE END OF THE TWELVE (12) MONTH MAINTENANCE PERIOD.
- D. "NURSERY-GROWN" SHALL MEAN GROWN IN THE NURSERY FROM LINERS OR COLLECTED AND THEN GROWN IN A NURSERY NOT LESS THAN 2 YEARS.

:."HEALTHY, VIGOROUS CONDITION" SHALL MEAN LIVE FOLIAGE OUT TO THE TIPS OF ALL BRANCHES AND STEMS, AND A TRUNK CALIPER THAT IS BIGGER, I 2 MONTHS AFTER PLANTING, THAN AT PLANTING. HEALTHY, VIGOROUS PALMS HAVE NEW FRONDS DEVELOPING WITH NO NECROSIS OR CHLOROSIS AND ARE GREEN IN COLOR. SHRUBS SHALL HAVE LIVE FOLIAGE OUT TO THE TIPS OF ALL BRANCHES.

1.3 QUALITY ASSURANCE

A. THE INSTALLATION SHALL BE BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE HORTICULTURE. ALL LANDSCAPE MATERIAL SHALL BE PROVIDED BY THE AWARDED BIDDER, AS SPECIFIED ON THE PLANS.

B. PLANT NAMES INDICATED SHALL COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT LISTED THERE SHALL CONFORM GENERALLY WITH NAME ACCEPTED BY THE NURSERY TRADE. STOCK PROVIDED SHALL BE TRUE TO ITS BOTANICAL NAME AND LEGIBLY TAGGED.

C. AWARDED BIDDER SHALL PROVIDE PHOTOGRAPHS OF PLANT MATERIAL PRIOR TO INSTALLATION.

D. PLANT SELECTION SHALL COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS. ALL PLANT MATERIAL SHALL BE "FLORIDA FANCY" OR "FLORIDA #1".

E. SUBSTITUTIONS SHALL NOT BE ACCEPTED AND WILL CONSTITUTE AN UNRESPONSIVE BID.

F. TREES. SHRUBS AND GROUNDCOVERS: PROVIDE TREES SHRUBS AND GROUNDCOVERS OF QUANTITY, SIZE, GENUS, SPECIES AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH RECOMMENDATIONS AND REQUIREMENTS OF THE LOCAL GOVERNMENT. PROVIDE HEALTHY, VIGOROUS STOCK, GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS, OR DISFIGUREMENT.

G. THE CUSTOMER OR THEIR REPRESENTATIVE SHALL INSPECT FOR QUALITY ASSURANCE AND APPROVE PLANT MATERIAL AT EITHER THE NURSERY OR PROJECT LOCATION, PRIOR TO INSTALLATION.

1. LOCAL GOVERNMENT RESERVES THE RIGHT TO REJECT ANY AND ALL PLANT MATERIAL.

1.4 SUBMITTALS

A. AWARDED BIDDER MUST SUBMIT CERTIFICATES OF INSPECTION, ANALYSES FOR SOIL AMENDMENTS, AND LABELS FOR HERBICIDES, INSECTICIDES AND FERTILIZER MATERIALS.

B. AWARDED BIDDER MUST SUBMIT THE FOLLOWING MATERIAL SAMPLES:

- . MULCH
- 2. TOPSOIL 3. PRE-EMERGENT HERBICIDE 4. FERTILIZER
- 5. PHOTOGRAPHS OF TYPICAL PLANT MATERIAL

1.5 JOB CONDITIONS

A. THE CUSTOMER OR THEIR REPRESENTATIVE WILL PROVIDE "NOTICE TO PROCEED" TO THE AWARDED BIDDER.

B. AWARDED BIDDER IS RESPONSIBLE FOR PROTECTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE DURING LANDSCAPE INSTALLATION. AWARDED BIDDER MUST NOTIFY "CALL SUNSHINE" (800-638-4097) 48 HOURS PRIOR TO BEGINNING WORK.

C. AWARDED BIDDER MUST PROTECT PLANT MATERIAL FROM DESICCATION DURING TRANSPORT AND INSTALLATION PERIOD. IN MOST INSTANCES. THIS MEANS DAILY IRRIGATION.

D. AWARDED BIDDER MUST FAMILIARIZE THEMSELVES WITH EXISTING PROJECT CONDITIONS, E.G., UTILITIES, SOIL STRATA, DRAINAGE, AND SIGHTLINES, PRIOR TO INSTALLATION. CONFLICTS SHOULD BE ADDRESSED WITH THE CUSTOMER OR THEIR REPRESENTATIVE.

E. WORK ALONG CITY, COUNTY, OR STATE RIGHT-OF-WAY MUST COMPLY WITH THE APPROPRIATE REGULATING AUTHORITY'S GUIDELINES FOR "TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS". AWARDED BIDDER SHALL BE RESPONSIBLE TO FILE AND OBTAIN ANY AND ALL REQUIRED AGENCY PERMITS.

PART 2.0 SHIPPING \$ HANDLING

2.1 TRANSPORTATION

A. TREE ROOT BALLS SHALL BE IRRIGATED JUST PRIOR TO SHIPPING. TREES SHALL BE SECURED IN THE TRUCK SO AS NOT TO ROLL. DO NOT ALLOW CLOSED TRUCKS TO REMAIN STANDING IN THE SUN IN HOT WEATHER UNLESS THEY ARE AIR-CONDITIONED. B&B TREES SHALL HAVE THEIR ROOT BALLS SHRINK-WRAPPED PRIOR TO TRANSPORTING THEM FROM THE NURSERY. TREES AND SHRUBS SHALL BE SHIPPED TO THE SITE IN ENCLOSED VANS OR COVERED WITH WOVEN SHADE TARP.

B. DELIVER SOD WITHIN 24 HOURS OF BEING HARVESTED. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITHIN A 24 HOUR PERIOD.

2.2 UNLOADING AND HANDLING

TREES WILL BE REJECTED IF THEY ARE DROPPED TO THE GROUND SUDDENLY. CONTAINER GROWN AND BOXED TREES SHALL BE LIFTED WITH A FORKLIFT UNDER THE CONTAINER OR CARRIED BY HAND BY THE LIP OF THE CONTAINER. TREES MAY BE LIFTED BY WIRE LOOPS INSIDE THE CONTAINER. TREES MAY NOT BE LIFTED BY THE TRUNK. BALLED AND BURLAPPED TREES SHALL BE HANDLED BY THE ROOT BALL IN A MANNER THAT DOES NOT DEFORM THE SHAPE OF THE ROOT BALL. TREES SHALL NOT BE HANDLED BY THE TRUNK.

2.3 HOLDING TREES AND SHRUBS AT THE PLANTING SITE

IRRIGATE TREES AND SHRUBS AS SOON AS THEY ARRIVE AT THE PLANTING SITE. AFTER PLANT MATERIAL IS UNLOADED FROM THE TRUCK, IT SHALL BE STOOD AND STORED IN THE ERECT POSITION AND IRRIGATED TWICE DAILY WITH 5 GALLONS PER INCH TRUNK DIAMETER OR I GALLON FOR EVERY 3 GALLONS OF CONTAINER UNTIL PLANTED. SHRINK WRAPPED B&B TREES AND PLANTS IN PLASTIC CONTAINERS SHALL BE STORED IN THE SHADE.

PART 3.0 MATERIALS

3.1 PLANT MATERIALS

NURSERY-GROWN.

A. NURSERY STOCK SHALL MEET THE MINIMUM DIMENSIONS FOR HEIGHT, SPREAD, DIAMETER BREAST HIGH (DBH) AND ROOT BALL AS DESCRIBED ON THE LANDSCAPE PLAN. ON LARGE MATURING AND MEDIUM MATURING SHADE TREES, THE TIP OF THE DOMINANT LEADER SHALL BE THE TALLEST PART OF THE TREE. TREES WITH LEADERS TOPPED OR HEADED WITHIN THE LAST YEAR SHALL BE REJECTED.

(ALL TREES SHALL BE FLORIDA #1 GRADE OR BETTER) B. DBH SHALL REPRESENT THE DIAMETER OF A TREE TRUCNK

MEASURED AT 4.5 FEET ABOVE GRADE. C. FIELD-GROWN TREES AND PALMS SHALL BE NURSERY-GROWN AND HARDENED OFF (PRE-DUG) FOR A MINIMUM OF SIX (6) WEEKS PRIOR TO DELIVERY TO JOB SITE. CONTAINER GROWN TREES SHALL BE

D. TREES MUST BE HEALTHY, VIGOROUS AND FULL WITH GOOD BRANCH DISTRIBUTION. TREES WITH BARK INCLUDED WITHIN MAJOR BRANCH UNIONS WILL NOT BE ACCEPTED.

E. ROOT BALLS OF FIELD-GROWN TREES MUST BE INTACT AND PROTECTED FROM DESICCATION WITH BLACK PLASTIC WRAP. CONTAINER TREES MUST HAVE THE CONTAINER ON THE ROOT BALL OR THE ROOT BALL MUST BE APPROPRIATELY PROTECTED FROM DESICCATION. TREES WITH ROOT BALLS THAT HAVE BOUND OR GIRDLED ROOTS SHALL BE REJECTED. THREES WITH SYNTHETIC BURLAP WILL NOT BE ACCEPTED.

F. THE TIP OF THE FIRST MAJOR ROOT ORIGINATING FROM THE TRUNK MUST BE WITHIN ONE INCH OF THE TIP OF THE ROOT BALL. IF THE FIRST ROOT IS DEEPER THAN THIS, THE TREE WILL BE REJECTED.

G. CONTAINER TREES SHOULD HAVE FEW, IF ANY, ROOTS ON THE OUTSIDE SURFACE OF THE MEDIA.

H. TREES MUST HAVE GREEN, LIVE FOLIAGE. SHOCKED PLANTS (I.E. THOSE WITH DEAD OR DYING LEAVES) WILL BE REJECTED

A. PROVIDE SHRUBS AT THE MINIMUM HEIGHT AND SPREAD LISTED ON THE LANDSCAPE PLAN. ALL SHRUBS MUST BE HEALTHY AND VIGOROUS WITH GOOD BRANCH DISTRIBUTION.

B. CONTAINER GROWN SHRUBS SHALL HAVE NO CIRCLING ROOTS AND FEW, IF ANY ROOTS ON THE OUTSIDE SURFACE OF THE MEDIA.

C. SHRUBS MUST HAVE GREEN, LIVE FOLIAGE. SHOCKED PLANTS (I.E. THOSE WITH DEAD OR DYING LEAVES) WILL BE REJECTED.

GROUND COVER

A. PROVIDE PLANTS ESTABLISHED AND WELL ROOTED IN CONTAINERS TO THE MINIMUM HEIGHT AND SPREAD LISTED ON THE LANDSCAPE

SOD

A. PROVIDED STRONGLY ROOTED SOD, NOT LESS THAN 2 YEARS OLD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES HAVING BEEN CUT TO A MOWING HEIGHT OF ONE (1) INCH OR LESS PRIOR TO LIFTING FROM THE FIELD, AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH, EXCLUDING TOP GROWTH AND THATCH. PROVIDE SOD ONLY CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). IT SHALL BE NURSERY GROWN AND PLANTED IN LOCATIONS AS DELINEATED ON THE LANDSCAPE

B. PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTED. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON UPPER 10% OF PAD WILL BE REJECTED.

3.2 ACCESSORY MATERIALS

A. REFER TO THE DRAWINGS AND OTHER PARTS OF SPECIFICATIONS FOR ACCESSORIES SPECIFICALLY USED ON THIS PROJECT.

B. BACKFILL SOIL SHALL BE APPROVED CLEAN TOPSOIL WITH A MINIMUM OF 6% ORGANIC MATTER. FURNISH SAMPLES AND CHEMICAL ANALYSIS FOR APPROVAL. SOIL IN SIDEWALK CUT OUTS, PARKING LOT ISLANDS, AND OTHER SMALL SPACES TO BE REPLACED WITH TOPSOIL A MINIMUM DEPTH OF 12" TO IMPROVE CONDITIONS. ALL CONSTRUCTION DEBRIS, ROCKS, STICKS, LIMEROCK, SHELL, ECT. ARE TO BE REMOVED FROM THE ENTIRE PLANTING AREA. C. FERTILIZER SHALL BE COMPLETE WITH APPROXIMATELY THE FOLLOWING RATIO: 3N-1P-3K (+MG FOR PALMS ONLY)

D. MULCH SHALL BE DERIVED FROM AN EXOTIC INVADER TREE SPECIES, E.G. MELALEUCA, AND SHALL BE CLEAN AND FREE FROM WEEDS AND OTHER DEBRIS. ALTERNATIVE PRODUCTS, E.G., EUCALYPTUS OR PINE BARK OR STRAW MAY BE CONSIDERED. BALD CYPRESS MULCH WILL NOT BE

E. PRE-EMERGENT HERBICIDE: APPLY GRANULAR CHIPCO "RONSTAR" OR APPROVED EQUAL AT LABEL RATE.

F. TREES SHALL BE SECURED USING THREE-QUARTER (3/4) INCH ELASTIC GUYS (3).

G. PALMS SHALL BE BRACED AS SHOWN. NO NAILS, SCREWS OR OTHER SECURING DEVICES MAY BE DRIVEN INTO THE TRUNK.

PART 4.0 EXECUTION

4.1 GENERAL

A. AWARDED BIDDER SHALL PROVIDE AND INSTALL ALL TREES. PAIMS. SHRUBS AND GROUNDCOVERS IN THE QUANTITIES AND DIMENSIONS INDICATED ON THE LANDSCAPE PLAN.

B. COMMENCEMENT OF WORK: WORK UNDER THIS AWARDED BID SHALL BE COMPLETED IN AN ORDERLY, BUSINESS-LIKE FASHION. ONCE WORK HAS BEGUN, IT SHALL CONTINUE ON CONSECUTIVE WORKING DAYS UNTIL IT HAS BEEN COMPLETED. SUNDAYS, SATURDAYS, HOLIDAYS AND STOPPAGES DUE TO INCLEMENT WEATHER DELAYS OR CAUSED BY THE CUSTOMER SHALL BE EXCLUDED.

4.2 INSTALLATION

TREES. PALMS AND SHRUBS

A. ALL LANDSCAPE MATERIAL IS TO BE PLANTED IN ACCORDANCE TO THE LANDSCAPE PLAN AND ATTENDANT EXHIBITS. GOOD HORTICULTURAL PRACTICES MUST BE OBSERVED.

B. TREES AND PALMS ARE TO BE PLANTED OUT OF THE RIGHT-OF-WAY (ROW) AT A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB AT LOCATIONS IDENTIFIED ON THE LANDSCAPE PLAN. ALL SHRUBS ARE TO BE A MINIMUM OF TWO AND ONE HALF (2.5) FEET FROM BACK OF CURB AS SHOWN ON LANDSCAPE PLAN. AWARDED BIDDER SHALL STAKE AND/OR PAINT PLANTING LOCATIONS IN THE FIELD. UPON APPROVAL BY THE CUSTOMER, THESE AREAS SHALL BE SPRAYED WITH AN APPROVED HERBICIDE AND MAINTAINED WEED-FREE FOR THE DURATION OF THE PROJECT.

C. EXCAVATE PLANTING HOLES WITH VERTICAL SIDES. DO NOT DISTURB SOIL AT BOTTOM OF PLANTING HOLES. MAKE EXCAVATIONS TWICE AS WIDE AS THE ROOT BALL DIAMETER AND SLIGHTLY LESS (TWO INCHES) THAN THE DISTANCE BETWEEN THE TOP-MOST ROOT IN THE ROOT BALL AND THE BOTTOM OF THE ROOT BALL. ALTERNATIVELY, EXCAVATE THE HOLE SLIGHTLY WIDER THAN THE ROOT BALL AND PLACE THE ROOT BALL IN THE HOLE SO THE TOP-MOST ROOT IS EVEN WITH OR SLIGHTLY (TWO INCHES) HIGHER THAN THE SURROUNDING LANDSCAPE GRADE. THEN, LOOSEN THE SURROUNDING SOIL OUT TO A DIAMETER EQUAL TO TWICE THE DIAMETER OF THE ROOT BALL. FINALLY, PUSH THE LOOSENED SOIL TOWARD THE ROOT BALL TO FILL THE HOLE. IF WATER FILLS THE BOTTOM OF THE PLANTING HOLE, ADD SOIL TO THE BOTTOM OF THE HOLE UNTIL THE WATER IS COVERED. PACK THE ADDED SOIL FIRMLY. PLACE THE ROOT BALL ON THIS PACKED, SOLID SOIL, NOT IN WATER. NO PART OF THE ROOT BALL SHALL BE PLACED IN WATER. IF NECESSARY, BRING IN SOIL SIMILAR TO SITE SOIL TO COVER THE SIDES OF THE ROOT BALL, CREATING A RAISED MOUND. THE BASE OF THE MOUND (I.E. THE OUTER DIAMETER CREATED) SHALL BE AT LEAST SIX TIMES THE DIAMETER OF THE ROOT BALL.

WHEN PLANTING ON A SLOPE, THE TOP-MOST MAIN ROOT IN THE ROOT BALL SHALL BE EVEN WITH THE GRADE ON THE UPHILL SIDE OF THE TREE. SITE SOIL WILL NEED TO BE ADDED ON THE DOWNHILL SIDE TO COVER THE SIDES OF THE ROOT BALL AND TO CONSTRUCT THE SOIL BERM TO HOLD WATER. THE AMOUNT OF SOIL ADDED ON THE DOWNHILL SIDE WILL DEPEND ON THE SLOPE AND SIZE OF THE ROOT BALL.

D. REMOVE ALL WOOD, PLASTIC, OR GRO-BAGS FROM THE ROOT BALL. SET PLANTS IN CENTER OF HOLES WITH THE TOP-MOST ROOT IN THE ROOT BALL AT THE SAME HEIGHT OR SLIGHTLY HIGHER (2 INCHES) THAN FINISHED LANDSCAPE GRADES AND PLUMB TREES SO THE TRUNK IS VERTICAL. BACKFILL FIELD SOIL AROUND SIDES OF ROOT MASS AND WORK EACH LAYER TO SETTLE AND ELIMINATE VOIDS AND AIR POCKETS. MATERIAL MUST BE WATERED IN AS PLANTED. PROVIDE APPROXIMATELY 5 GALLONS OF WATER PER INCH OF TRUNK CALIPER OR I GALLON PER 3 GALLONS OF CONTAINER TO THE ROOT BALL ONCE ALL BACKFILL IS FILLED IN AROUND THE ROOT

E. PROVIDE A 2-3" HIGH SOIL BERM AROUND THE EDGE OF TREE ROOT BALLS TO FROM A SHALLOW SAUCER TO COLLECT WATER. THE WATERING SAUCER, REGARDLESS OF HOLE SIZE, IS TO BE AT EDGE OF ROOT BALL. ALTERNATIVELY, COBRA EDGING IS TO BE INSTALLED AT THE EDGE OF THE ROOT BALL.

F. BROADCAST OVER THE ROOT BALL AND BACK FILL SOIL, AT THE RECOMMENDED RATE, A BROAD-SPECTRUM PRE-EMERGENT HERBICIDE PRIOR TO MULCHING.

G. APPLY A CONTROLLED-RELEASE FERTILIZER TO THE SOIL SURFACE UNDER THE MULCH AT ILB. NITROGEN PER 1000 FT2, PRIOR TO MULCHING. NO OTHER AMENDMENTS ARE NECESSARY.

H. ON TREES UP TO 4" CALIPER, APPLY A THREE (3) INCH LAYER OF MULCH TO AN EIGHT (8) FOOT DIAMETER CIRCULAR AREA AROUND THE TRUNK. ON LARGER CALIPER TREES, APPLY A TWO (2) FOOT DIAMETER MULCH AREA FOR EACH INCH OF TRUNK CALIPER. NO MULCH SHALL BE APPLIED TO THE INNER HALF OF THE ROOT BALL SURFACE. ALL OTHER PLANTING BEDS ARE TO HAVE A MINIMUM OF 3" OF MULCH.

I. TREES AND PALMS ARE TO BE SECURED BY AWARDED BIDDER.

GROUNDCOVER

A. SPACE GROUND COVER PLANTS AS INDICATED ON THE LANDSCAPE

B. DIG HOLES LARGE ENOUGH TO ALLOW FOR SPREADING ROOTS AND BACKFILL WITH PLANTING SOIL. WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SLIGHT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER CROWNS WITH WET SOILS.

C. MULCH AREA BETWEEN GROUND COVER PLANTS, PLACE NO LESS THAN 3" OF MULCH.

A. A REPRESENTATIVE WILL INSPECT ALL LANDSCAPE MATERIAL DURING INSTALLATION. MATERIAL THAT IS IN SHOCK OR HAS BEEN DAMAGED DURING INSTALLATION SHALL BE REPLACED BY AWARDED BIDDER WITHIN FIVE (5) WORKING DAYS FROM NOTIFICATION.

B. REMOVE FROM WORK SITE ALL EXCESS MATERIALS (E.G., SOIL. DEBRIS AND EQUIPMENT) DAILY THROUGH DURATION OF PROJECT. DAMAGES RESULTING FROM INSTALLATION SHALL BE REPAIRED BY AWARDED BIDDER.

C. PRUNING: IF THERE IS A DOUBLE LEADER IN THE TOP HALF OF THE TREE, SHORTEN ONE, BY THE ABOUT ONE-HALF, BACK TO A LIVE BRANCH THAT POINTS AWAY FROM THE TREE AND IS AT LEAST ONE-THIRD THE DIAMETER OF THE CUT LEADER. REMOVE BROKEN PORTIONS OF DAMAGED BRANCHES BACK TO A LIVE LATERAL BRANCH. PRUNE SHRUBS TO RETAIN NATURAL CHARACTER.

D. REMOVE ALL STRING OR WIRE WRAPPED AROUND TREE TRUNKS. REMOVE ALL STRAPS, ROPE AND STRING USED TO LIFT THE ROOT BALL. REMOVE ALL BURLAP AND WIRE FROM THE TOP OF THE ROOT BALL.

4.3 ACCEPTANCE

A. INSPECTION TO DETERMINE ACCEPTANCE OF PLANTED AREAS WILL BE MADE BY THE CUSTOMER REPRESENTATIVE UPON AWARDED BIDDER'S REQUEST. PROVIDE NOTIFICATION A MINIMUM OF FIVE (5) WORKING DAYS BEFORE REQUESTED INSPECTION DATE.

PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENT, INCLUDING MAINTENANCE, HAVE BEEN SATISFIED AND PLANT MATERIALS ARE HEALTHY AND IN VIGOROUS CONDITION.

B. THE CUSTOMER OR THEIR REPRESENTATIVE WILL PREPARE A "PUNCH LIST" OF THOSE ITEMS, WHICH MUST BE CORRECTED BEFORE RE-INSPECTION FOR FINAL ACCEPTANCE. THE REPRESENTATIVE WILL DETERMINE AN APPROPRIATE TIME PERIOD FOR CORRECTIONS. AWARDED BIDDER MUST REQUEST RE-INSPECTION TWO (2) WORKING DAYS IN ADVANCE.

4.4 MAINTENANCE

A. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING. MAINTAIN ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE AND FOR A MAINTENANCE AND WARRANTY PERIOD OF TWELVE (12) MONTHS AFTER FINAL ACCEPTANCE.

B. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO PRUNING, CULTIVATION, MOWING, WEEDING, FERTILIZING, WATERING. AND APPLICATION OF APPROPRIATE PESTICIDES NECESSARY TO MAINTAIN PLANTS IN HEALTHY CONDITION.

1.) RESET SETTLED PLANTS TO PROPER GRADE AND

POSITION. 2.) RESTORE SOIL BERM AND MULCH LAYER. 3.) TIGHTEN AND REPAIR ELASTIC GUYS OR OTHER

4.) CORRECT DEFECTIVE WORK. 5.) REMOVE AND REPLACE REJECTED MATERIAL WITHIN ONE (1) WORKING DAY FROM NOTIFICATION. 6.) MAINTAIN MULCH SURFACE WEED-FREE

C. ALL PALMS ARE TO BE PRUNED TO REMOVE DEAD FRONDS, AND FRONDS WITH A PETIOLE THAT DROOPS BELOW HORIZONTAL. DEAD FRONDS ARE THOSE WITH LESS THAN 50% GREEN TISSUE. ONLY THOSE FRONDS WITH PETIOLES DROOPING BELOW HORIZONTAL (9:00-3:00 O'CLOCK) SHOULD BE REMOVED. ALL SEEDPODS ARE ALSO TO BE REMOVED INCLUDING THOSE ORIGINATING AMONG REMAINING FRONDS.

D. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE IRRIGATION THROUGH FINAL ACCEPTANCE AND TWELVE- (12) MONTH WARRANTY PERIOD.

E. UPON SATISFACTORY COMPLETION OF MAINTENANCE PERIOD AS DETERMINED BY FINAL MAINTENANCE INSPECTION. THE CLIENT OR AN APPOINTED LANDSCAPE MAINTENANCE COMPANY WILL ASSUME MAINTENANCE RESPONSIBILITIES.

F. ALL STAKES, SUPPORTS, AND ASSOCIATED HARDWARE SHALL BE REMOVED 12 MONTHS AFTER PLANTING.

NOTES ON IRRIGATION

I. DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER IRRIGATION FREQUENCY CAN BE REDUCED SLIGHTLY (E.G. 2-3 TIMES EACH WEEK INSTEAD OF EVERY OTHER DAY) WHEN PLANTING HARDENED-OFF, FIELD GROWN TREES THAT WERE ROOT-PRUNED DURING PRODUCTION. ESTABLISHMENT TAKES 3 TO 4 MONTHS PER INCH TRUNK

2. IRRIGATION FREQUENCY CAN BE REDUCED SLIGHTLY (E.G. TO ONE OR TWICE EACH WEEK) WHEN PLANTING HARDENED-OFF, FIELD GROWN TREES THAT WERE ROOT-PRUNED DURING PRODUCTION.

3. AT EACH IRRIGATION, APPLY 2-3 GALLONS PER INCH TRUNK CALIPER TO THE ROOT BALL. APPLY IT IN A MANNER SO ALL WATER SOAKS INTO THE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY.

4. TREES TAKE MUCH LONGER TO ESTABLISH THAT 3-4 MONTHS PER INCH TRUNK CALIPER. IRRIGATE IN DROUGHT THE FOLLOWING SUMMER.

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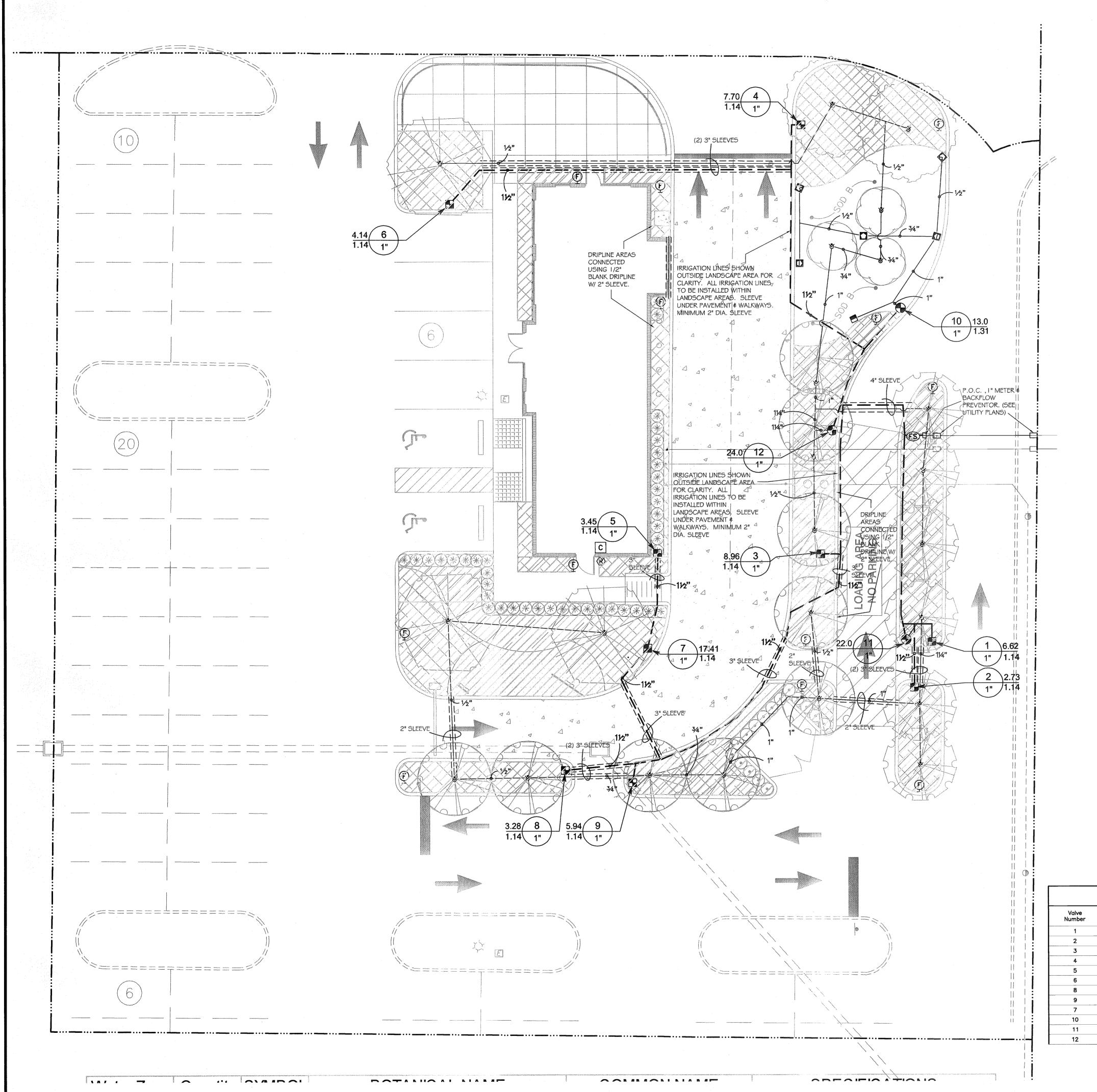
Call 2 full business days before you dig

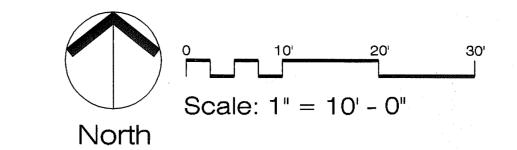
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48 HOURS BEFORE YOU DIG CALL SUNSHINE

MIN. OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.
FDOT MAINTENANCE YARD TO BE
CONTACTED 72 HOURS PRIOR TO
BEGINNING CONSTRUCTION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
Q H F	Hunter PROS-06-CV 15` radius Turf Spray, 6" popup, with check valve	7
☑ ⊟ □ Q H F	Hunter PROS-06-CV 17` radius Turf Spray, 6" popup, with check valve	13
₩ AFB	Hunter AFB Adjustable Flow Bubbler, 1/2" FIPT, stainless steel screw adjustment.	23
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICZ-101 Institutional Control Zone Kit, I" control zone valve with I" HY100 Wye filter and 25 PSI high-flow regulator.	9
F	Netafım TLSOV Manual flush valve	9
suches where others eliens have been	Area to Receive Dripline Netafim TLCV9-12 Landscape Dripline with 0.9 gph emitters at 12" o.c. with check valve. See details and notes for general guidelines, max. length of single lateral and flow per 100 feet.	4,015 s.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter PGV-100A-AS Electric Remote Control Valve, 1" plastic, with angle valve, Accu-Set pressure regulator.	3
С	Hunter ICC-2000-PL Electromechanical Controller, 20 stations, outdoor model, with plastic cabinet	1
R	Hunter RAIN-CLIK Rain Sensor, with conduit installation, mount as noted	1
P.O.C.	I" Meter; See Utilities Plan	t
	Irrigation Lateral Line: PVC Class 200 Only lateral transition pipe sizes 3/4" and above are indicated on the plan, with all others being 1/2" in size.	693 l.f.
	· Irrigation Mainline: PVC Schedule 40	408 l.f.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall be 2X pipe size \$ allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	259 l.f.
	Valve Callout Valve Number	
<u> </u>	Valve GPM	

Valve	Tune of irrigation	pe of irrigation Total GPM	Area to be irrigated (Sq.Ft.)	Application rate (in/hr)	Water Schedule			
Number	Type of Irrigation				Days per Week	Duration (min.)	Gallons Applied	
1	Dripline	6.62	441.47	1.4	2	40	1.0	
2	Dripline	2.73	181.80	1.4	2			
3	Dripline	8.96	597.62	1.4	2	40	1.0	
4	Dripline	7.70	513.48	1.4	2			
5	Dripline	3.45	230.25	1.4	2	2 40	1.0	
6	Dripline	4.14	276.11	1.4				
8	Dripline	3.28	218.46	1.4				
9	Dripline	5.94	395.99	1.4				
7	Dripline	17.41	1310.55	1.4	2	40	1.0	
10	Spray	13.00	953.78	1.3	2	45	1.0	
11	Tree Bubbler	22.00	See Plans	1.0	2	60	1.0	
12	Tree Bubbler	24.00	See Plans	1.0	2	60	1.0	

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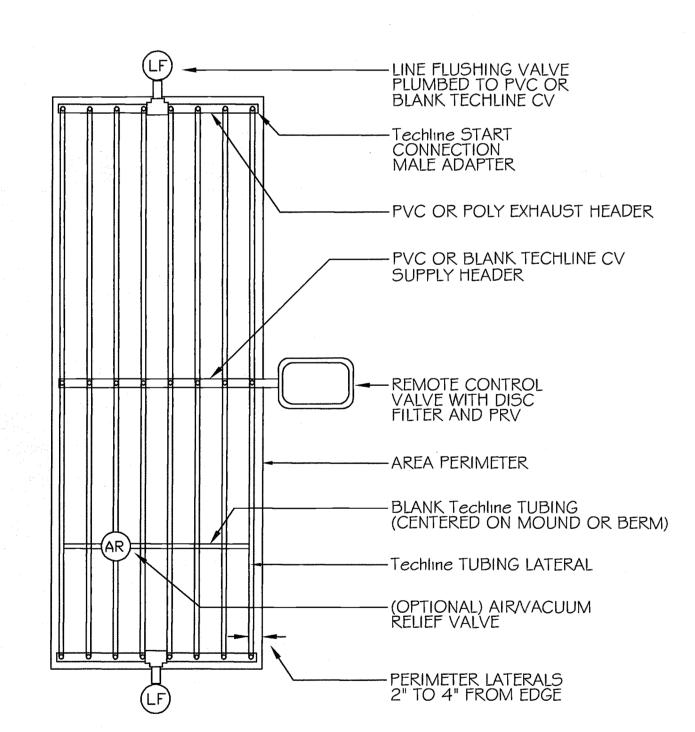
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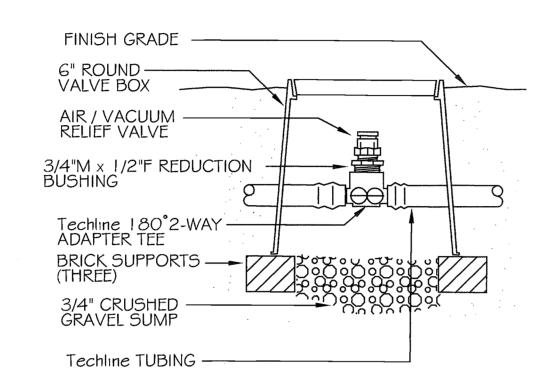
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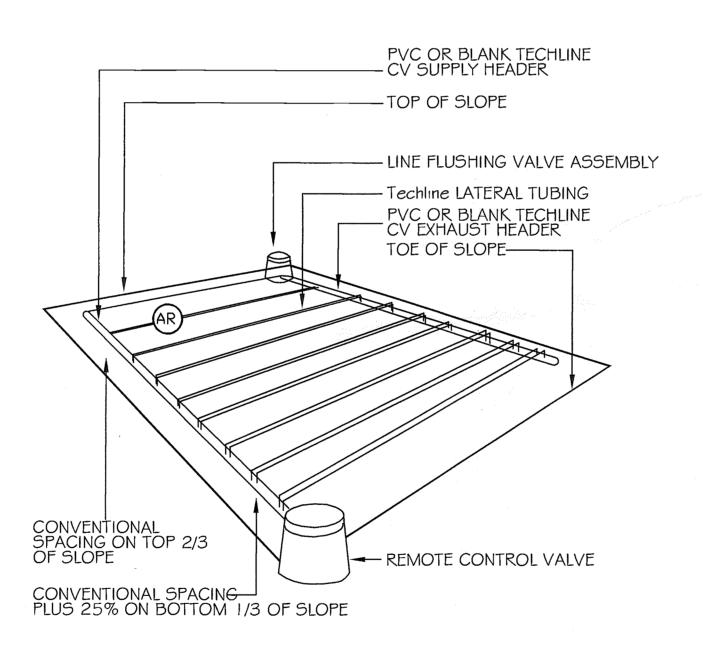
- 1. Grid layout shall be used in this project. Use center grid layout where possible. (See detail)
- 2. When Dripline sleeved, use blank dripline in sleeve. Sleeve size shall be 2X dia. of dripline. No emitter dripline shall be placed in sleeve.
- 3. The length of any Netafim lateral shall not be greater than 194'. 4. Manual line flushing valve (TLSOV) shall used \$ placed in a 6" x 6" sump.
- Valves shall be opened every water day for 2 weeks and then a min. of 2 times a year to clear dripline of debris. (See detail IR3) 5. Air/vacuum relief valve shall be installed when change of slope occurs 3%
- 6. Staples shall be used at 3' O.C. and 2 staples "x'ed" over each other with
- any change in direction, elbows, or crosses. 7. Supply, exhaust headers and dripline shall be placed 2" - 4" from
- landscapes, planting areas, and pavement edges.
- 8. Techline CV blank tubing shall be used for supply and exhaust headers.
- 9. Prior to covering dripline, dripline circuit will be pressurized and tested for
- 10. Netafim taterals shall be laid in the longest run, whether it be the width or length in the zone.



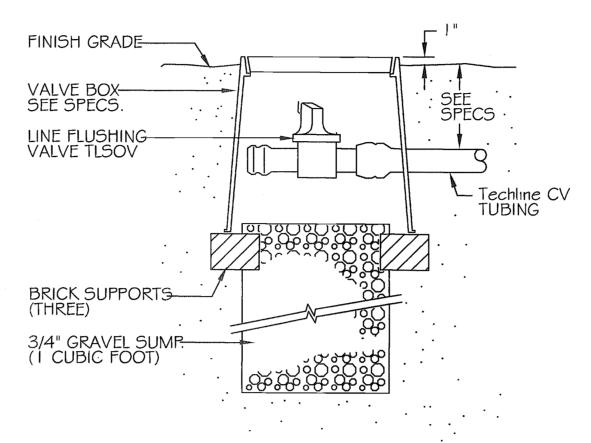
Techline CENTER FEED LAYOUT



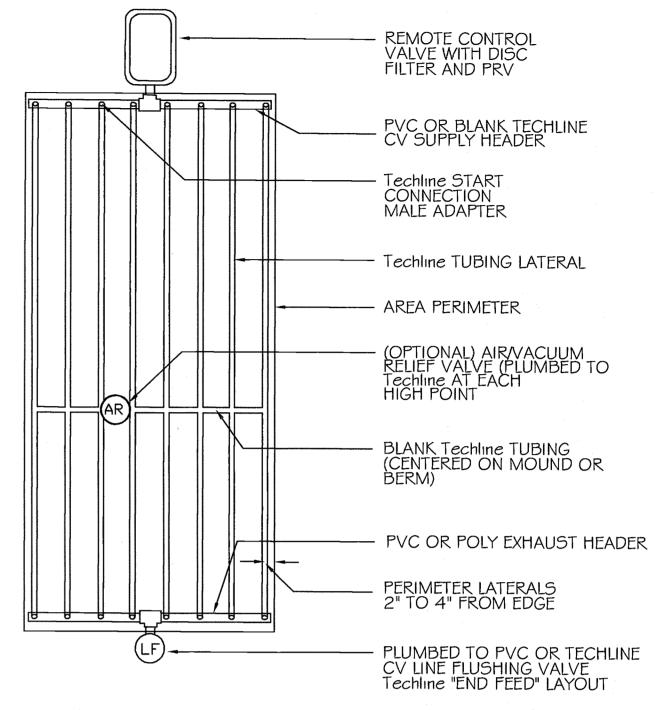
Techline AIR/VACUUM RELIEF (PLUMBED TO Techline) SECTION - NO SCALE



Techline CV SLOPE FEED LAYOUT DETAIL - NO SCALE

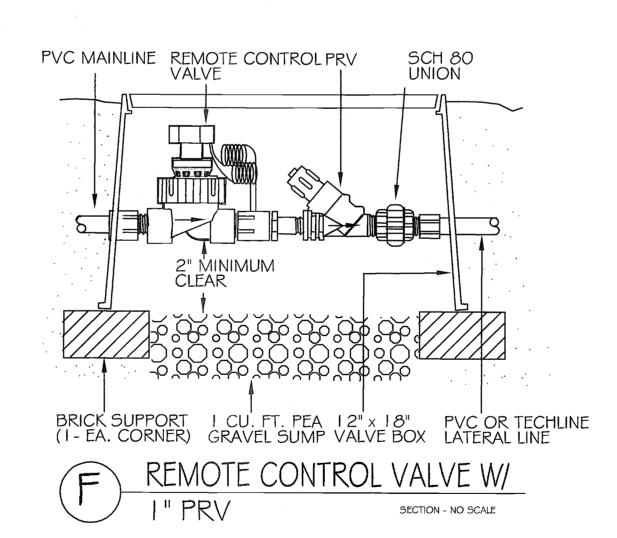


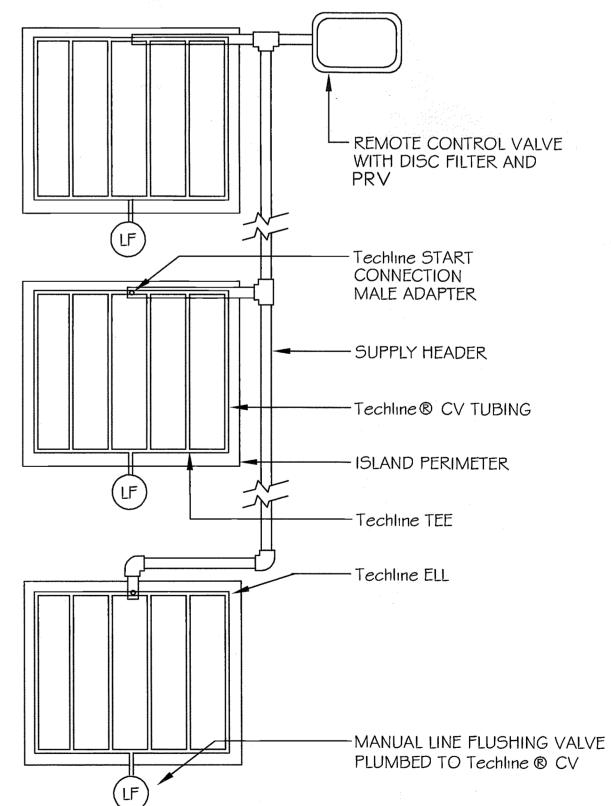
TLSOV PLUMBED TO TUBING SECTION - NO SCALE



Techline END FEED LAYOUT

DETAIL - NO SCALE





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Techline CV ISLAND LAYOUT DETAIL - NO SCALE

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- THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BE EXPECTED TO MAKE THOSE MODIFICATIONS NECESSARY IN THE FIELD TO REACT TO ACTUAL FIELD CONDITIONS, WITHOUT DEPARTURE FROM THE DESIGN CONCEPTS OR INTENT.
- 2) ALL WORK SHALL CONFORM TO ANY AND ALL APPLICABLE REGULATIONS AND CODES FOR THE LOCATION OF THE WORK. THE INSTALLER SHALL OBTAIN ANY NECESSARY LOCATES, PERMITS AND INSPECTIONS.
- 3) ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. REFER TO LANDSCAPE AND UTILITIES PLANS WHEN TRENCHING TO AVOID TREES, SHRUBS AND UNDER GROUND UTILITIES
- 4) ALL MATERIAL AND LABOR REQUIRED TO PROVIDE A COMPLETE, OPERATIONAL AND FULLY GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS.
- 5) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR) SHOWING ALL IRRIGATION INSTALLATION. A MYLAR OR SEPIA OF THE ORIGINAL PLAN MAYBE OBTAINED FROM THE LANDSCAPE ARCHITECT FOR A FEE. THE DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWN EXACT MEASUREMENTS FROM HARD SURFACES. PLEASE SHOW WIRE DIRECTION
- 6) ALL HEADS SHALL BE OF THE PROPER TYPE FOR THE AREAS WHERE LOCATED, AND SHALL BE INSTALLED PLUMB AND WITH THE PROPER HEIGHT. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCE FROM ALL HARD-SCAPING, TO MINIMIZE WATER OVER SPRAY ON IMPERVIOUS AREAS.
- 7) CONTROL WIRING SHALL BE ROUTED WITH THE MAINLINE WHEREVER POSSIBLE. LOW VOLTAGE WIRING SHALL BE UF# I 4PVC JACKETED, SINGLE CONDUCTOR CABLE, USE RED WIRES FOR "HOT" AND WHITE FOR VALVE COMMON. WIRES SHALL BE INSTALLED WITH ADEQUATE SLACK AND SURGE/EXPANSION LOOPS, AND SHALL BE SPLICED ONLY IN VALVE BOXES, USING SPEARS "DRISPLICE" WIRE CONNECTORS AND SEALANT.
- 8) ALL PIPING AND WIRE PASSING UNDER PAVED AND WALKWAY AREAS SHALL BE SLEEVED WITH SCH 40 PVC PIPE, SIZED A MINIMUM OF TWO NOMINAL SIZES LARGER THAN CONTAINED PIPE (MINIMUM 2" SLEEVE).
- 9) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
- THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH AND FOLLOW THE INSTRUCTIONS CONTAINED HEREIN, ON THE DRAWINGS, IN THE CONSTRUCTION DETAILS, AND IN THE WRITTEN SPECIFICATIONS, SHOULD A CONFLICT BE DISCOVERED WITHIN THE DOCUMENTS, HE SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND REQUEST CLARIFICATION.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LOW VOLTAGE WIRING FROM THE CONTROL VALVE TO THE IRRIGATION CONTROLLER, IF SPARE WIRES ARE NOT AVAILABLE.
- 12) THE IRRIGATION CONTRACTOR IS TO INSPECT, EVALUATE, AND REPAIR ANY DEFAULTS IN THE EXISTING IRRIGATION SYSTEM AND ITS EQUIPMENT.
- 13) CONTROLLER(S) SHALL BE 'DIRECT WIRED' TO HOUSE CIRCUIT OF 120 VOLTS, NO 'PLUG-IN' POWER CONNECTIONS SHALL BE ALLOWED.
- CONTRACTOR AGREES THAT HE SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION ON THE PROJECT INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONTRACTOR AGREES TO DEFEND AND INDEMNIFY AND HOLD OWNER AND DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
- 15) ALL VALVES TO HAVE SINGLE STATION ID-100 MODULES INSTALLED WITHIN VALVE BOX.

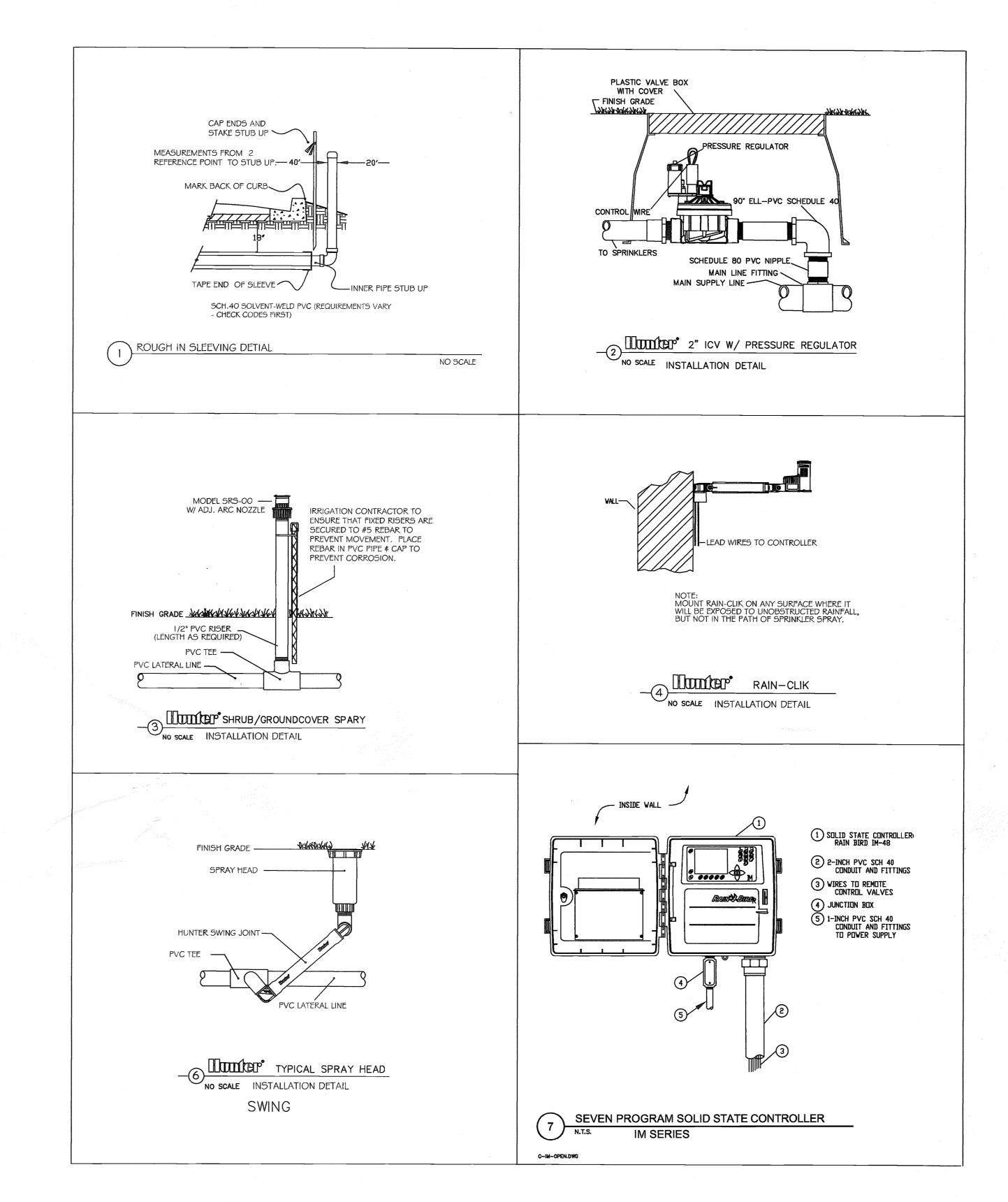
Recommended Irrigation Schedule and Notes for New Tree Plantings *						
Size of Nursery Stock	Irrigation Schedule for Vigor	Irrigation Schedule for Survival				
< 2 inch caliper	Daily for 2 weeks; every other day for 2 months; weekly until established	Twice weekly for 2 - 3 months				
2 - 4 inch caliper	Daily for 1 month; every other day for 3 months; weekly until established	Twice weekly for 3 - 4 months				
> 4 ınch calıper	Daily for 6 weeks; every other day for 5 months; weekly until established	Twice weekly for 4 - 5 months				
<u></u>						

Notes

- I. Delete daily irrigation when planting in winter. Irrigation frequency can be reduced slightly (e.g. 2 3 times each week instead of every other day) when planting hardened-off, field-grown trees that were root-pruned during production. Establishment takes 3 (hardiness zones 10 11) to 4 (hardiness zones 8 9) months per inch trunk caliper.
- 2. Irrigation frequency can be reduced slightly (e.g. to once or twice each week) when planting hardened-off, field grown trees that were root-pruned during production
- 3. At each irrigation, apply 2 3 gallons per inch trunk caliper to the root ball.

 Apply it in a manner so all water soaks into the root ball. Do not water if root ball is wet/saturated on the irrigation day.

*(from "Typical Tree Bid Specifications for Florida" by the Florida Urban Forestry Council and Dr. Edward F. Gillman, University of Florida, Gainesville. Updated June 1999)



Disclaimer:

- I. The irrigation watering schedule provided on this plan is intended as a suggested general guideline for applying water to support the establishment of plants/trees only. It shall be the Contractor's responsibility to determine, provide and warrant specific water volume, water quality and watering frequency for all specific species of trees, shrubs, groundcovers and sod as identified on these plans.
- 2. Watering schedule (i.e. time, duration, frequency of application) for automatic low-volume irrigation systems shall fully comply with all state and local jurisdictional rules, regulations, and requirements with regard to any watering restrictions which may be in place.
- 3. Avid Design Studio or Avid Engineering shall not be held responsible for any damages resulting from compliance to or non-conformance by the Owner and/or Contractor of the project for the above "Recommended Irrigation Schedule and Notes".

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