

# O'Reilly AUTO PARTS

## PSP/Construction & Stormwater Management Plan New O'Reilly Auto Parts Store 3600 LAND O' LAKES BLVD LAND O' LAKES, FL

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New O'Reilly Auto Parts Store:  
 3600 LAND O' LAKES BLVD  
 LAND O' LAKES, FL  
 (LAND O' LAKES #1)

**O'Reilly AUTO PARTS**  
 233 SOUTH PATTERSON  
 SPRINGFIELD, MISSOURI 65802  
 417-862-2674 PHONE

COMM # 3670  
 DATE: 05-19-14  
 REVISION  
 DATE:

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### ABBREVIATIONS LEGEND

AFF	ABOVE FINISHED FLOOR	INSUL	INSULATE
AC	ACOUSTICAL	INT	INTERIOR
AC	AIR CONDITIONING	JST	JOIST
ALT	ALTERNATE	JT	JOINT
AL	ALUMINUM	JNT	JOINT
ALUM	ALUMINUM	KIT	KITCHEN
AB	ANCHOR BOLT	LH	LEFT HAND
ARCH	ARCHITECT (URAL)	LF	LINEAL FOOT
BSMT	BASEMENT	LTL	LENGTH
BRG	BEARING	L	LINTEL
BM	BENCH MARK	LL	LIVE LOAD
BEL	BELOW	MACH	MACHINE
BLK	BLOCK	MH	MANHOLE
BLKG	BLOCKING	MFR	MANUFACTURER
BD	BOARD	MAS	MASONRY
BW	BOTH WAYS	MO	MASONRY OPENING
BT	BOTTOM	MAX	MAXIMUM
BF	BOTTOM OF FOOTING	MCH	MECHANICAL
BOF	BOTTOM OF FOOTING	MED	MEDIUM
BRK	BRICK	MR	MODIFIED BITUMEN ROOFING
BLDG	BUILDING	MET	METAL
BUR	BUILT-UP ROOFING	MTL	METAL
CAB	CABINET	M	METER(S)
CLG	CEILING	MWK	MILLWORK
CL	CENTER LINE	MIN	MINIMUM
CO	CENTER OF	MISC	MISCELLANEOUS
CC	CENTER TO CENTER	MT	MOUNTED, (ING)
CLR	CLEAR	NOM	NOMINAL
COL	COLUMN	N	NORTH
CONC	CONCRETE	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OC	ON CENTER(S)
CONTR	CONTRACTOR	OPN	OPENING
CONT	CONTINUOUS	OPH	OPPOSITE HAND
CNTR	COUNTER	OD	OUTSIDE DIAMETER
CL	COUNTER FLASHING	OD	CUT TO CUT
CISK	COUNTERSUNK	OA	OVERALL
CRS	COURSES	OH	OVERHEAD
CF	CURB FOOT	PC	PIECE
CY	CUBIC YARD	PNT	PAINTED
DL	DEAD LOAD	PTD	PAINTED
DEM	DEMOLISH, DEMOLITION	PKG	PARKING
DTL	DETAIL	PLAM	PLASTIC LAMINATE
DIAG	DIAGONAL	PL	PLATE
DIAM	DIAMETER	PWD	PLYWOOD
DM	DIMENSION	PVC	POLYVINYL CHLORIDE
DR	DOOR	PPF	POUNDS PER SQUARE FT.
DS	DOWN SPOUT	PSI	POUNDS PER SQUARE IN.
D	DRAIN	PT	PRESSURE TREATED
DWG	DRAWING	FL	PROPERTY LINE
DF	DRINKING FOUNTAIN	REM	REMOVE
E	EAST	RET	RETURN
EPS	EXTERIOR INSULATION AND FINISH SYSTEM	RH	RIGHT HAND
ELEC	ELECTRICAL	RD	ROOF DRAIN
EWC	ELECTRIC WATER COOLER	RFO	ROOFING
ELEV	ELEVATION	RM	ROOM
ELEV	ELEVATION	RO	ROUGH OPENING
ELEV	ELEVATOR	SNT	SEALANT
EMER	EMERGENCY	SLNT	SEALANT
EQ	EQUAL	SEC	SECTION
EXG	EXISTING	SEC	SECTION
EXIST	EXISTING	SETHG	SHEATHING
EXP	EXPOSED	SHT	SHEET
EXT	EXTERIOR	SM	SIMILAR
FOF	FACE OF FINISH	SC	SOLID CORE
FO	FACE OF MASONRY	S	SOUTH
FDM	FACE OF STUDS	SF	SQUARE FOOT
FOS	FACE OF STUDS	SI	SQUARE INCH
FN	FINISHED FLOOR ELEV.	SY	SQUARE YARD
FEE	FINISHED FLOOR LINE	STD	STANDARD
FEL	FIRE EXTINGUISHER	STO	STORAGE
FEC	FIRE EXTINGUISHER CABINET	SUS	SUSPENDED
FT	FIRE TREATED	SYM	SYMMETRY, (ICAL)
FLG	FLOOR	TEL	TELEPHONE
FLR	FLOOR DRAIN	TV	TELEVISION
FTG	FOOTING	THK	THICKNESS
FDN	FOUNDATION	T&O	TONGUE & GROOVE
FND	FOUNDATION	TM	TOP OF MASONRY
FUR	FURRING	TOM	TOP OF MASONRY
GA	GAGE, GAUGE	TS	TOP OF STEEL
GV	GALVANIZED	TOS	TOP OF STEEL
GALV	GALVANIZED	TW	TOP OF WALL
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GL	GLASS, GLAZING	TYP	TYPICAL
GP	GYPSONIUM	UNL	UNLESS OTHERWISE NOTED
GWP	GYPSONIUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HTG	HEATING	VERT	VERTICAL
HVAC	HEATING/VENTILATING/ACR COND.	VSCT	WANSNOT
HC	HOLLOW CORE	WC	WATER CLOSET
HM	HOLLOW METAL	WFF	WELDED WIRE FABRIC
HK	HOOK(S)	W	WEST
HCR	HORIZONTAL	W	WIDTH, WIDE
HB	HOSE BIBB	WIN	WINDOW
INS	INSULATE(D), (ION)	WD	WITHOUT
		WID	WITHOUT
		WD	WOOD

### OWNER OR TENANT



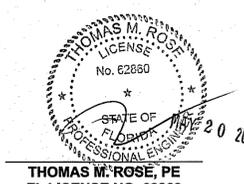
**O'REILLY AUTOMOTIVE STORES, INC.** A MISSOURI CORPORATION  
 (FORMERLY KNOWN AS O'REILLY AUTOMOTIVE, INC.)  
 CORPORATE OFFICES  
 233 SOUTH PATTERSON  
 SPRINGFIELD, MISSOURI 65802  
 417-862-2674 PHONE

**BIDDING INFORMATION**  
<http://www.ipdservices.net/clients/oreilly>  
 \*CLICK ON CURRENT PROJECTS LINK  
 LOCATED ON SIGN IN PAGE TO VIEW  
 INVITED GENERAL CONTRACTORS.  
 ALL SUB-CONTRACTOR BIDS TO BE  
 SUBMITTED TO INVITED GENERAL  
 CONTRACTORS ONLY.  
 CONTACT OWNERS REPRESENTATIVE  
 FOR PROJECT INFORMATION:  
 CHRIS EVANS  
 PROJECT ADMINISTRATOR  
 417-868-4201

### CIVIL ENGINEER



**Cardno**  
 Shaping the Future  
 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759  
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### GENERAL NOTES

**A. CONTRACT ADMINISTRATION (LIMITED SERVICE):** THE ARCHITECT AND/OR ENGINEER OF RECORD INDICATED HEREIN ARE PROVIDING A LIMITED SERVICE AND NOT PROVIDING CONTRACT ADMINISTRATION SERVICES FOR THIS PROJECT WHICH IS THE RESPONSIBILITY OF OTHERS. THE ARCHITECT AND/OR ENGINEER ARE NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT INSPECTION OF THE WORK IN PROGRESS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT AND/OR ENGINEER DOES NOT DELEGATE AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF PLANS OR SPECIFICATIONS AS AUTHENTICATED HEREIN.

**B. QUALITY STANDARDS AND BUILDING CODES:** CONTRACTORS SHALL BE RESPONSIBLE FOR KNOWING THE QUALITY AND PUBLIC SAFETY REGULATIONS SET FORTH IN THE GOVERNING CODES AND OTHER APPLICABLE REGULATIONS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION WHICH GOVERN EACH CONTRACTOR'S WORK.

**C. EXISTING CONDITIONS:** FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING WORK. NOTIFY THE ARCHITECT AND/OR ENGINEER OF RECORD IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.

### ZONING CODE

**ZONING CLASSIFICATION:** C-2 (GENERAL COMMERCIAL)  
**PROPERTY AREA:** (REFER TO SURVEY)

**PARKING SUMMARY**  
 PARKING FORMULA: 1 SP. PER 300 GFA  
 SPACE SIZE: 9' x 20'  
 SPACES REQUIRED: 24 (7,225/ 300 = 24)  
 SPACES PROVIDED: 37  
 H.C. SPACES PROVIDED: 2

### QUALITY CONTROL

- REFER TO PROJECT MANUAL, SECTION 01 45 16 - QUALITY CONTROL PROCEDURES, FOR ADDITIONAL REQUIREMENTS.
- REFER TO STRUCTURAL DRAWINGS FOR SCHEDULE OF SPECIAL INSPECTIONS, IF INDICATED.
- WHERE REQUIRED, THE OWNER SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING AND SPECIAL INSPECTIONS INDICATED.

## GENERAL NOTES

- ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND THE LATEST LOCAL GOVERNMENT AGENCY UTILITIES AND FDOT STANDARDS, DETAILS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988 DATUM. REFER TO SURVEY PREPARED BY DONALDSON, GARRETT, & ASSOCIATES, INC. DATED 09/24/2014.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND DURING CONSTRUCTION. SEE EROSION CONTROL NOTES AND STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS FOR CONSTRUCTION SAFETY.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI (28 DAY STRENGTH), UNLESS OTHERWISE NOTED.
- ALL DISTURBED GRASSED AREAS SHALL BE RESODDED WITHIN 72 HOURS UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO RESTORE ALL AREAS DISTURBED BY HIS OPERATION TO THEIR ORIGINAL OR BETTER CONDITION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND IMPROVEMENTS THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES TO THE PROPERTY LINE AT A MINIMUM. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE ENGINEER AND REQUESTING A CLARIFICATION OF PLANS PRIOR TO DEMOLITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS, AND OTHER CONSTRUCTION PERMITS NOT FURNISHED BY THE OWNER, PRIOR TO THE START OF ANY CONSTRUCTION OR DEMOLITION.
- SPECIAL CARE IS TO BE TAKEN SO THAT PROTECTED TREES REMAIN UNHARMED DURING CONSTRUCTION. IN ANY EVENT, NO TREE(S) SHALL BE REMOVED UNLESS DESIGNATED FOR REMOVAL ON THE PLANS.
- REFERENCED INDEX NUMBERS REFER TO FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN STANDARDS, LATEST EDITION.
- ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION AND SHALL BE IN ACCORDANCE WITH LOCAL GOVERNMENT AGENCY LAND DEVELOPMENT CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UP TO AND INCLUDING THE INITIAL MOWING.
- CONTRACTOR IS ADVISED TO BECOME FAMILIAR WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE CERTIFIED STORMWATER RECORD DRAWINGS (AS-BUILTS), SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA PRIOR TO CERTIFICATION BY THE ENGINEER OF RECORD. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL STORMWATER FACILITIES, DRAINAGE STRUCTURES, BERMS & SWALES. THE RECORD DRAWINGS MUST COMPLY WITH THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S (SFWMD) "AS-BUILT" DRAWINGS AND INFORMATION CHECKLIST. THE CONTRACTOR SHALL PROVIDE TEN (10) COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER OF RECORD FOR THE PURPOSE OF CERTIFYING THE STORMWATER MANAGEMENT SYSTEM.
- THE CONTRACTOR SHALL LOCATE AND STAKE ALL PROPERTY CORNERS PRIOR TO FINAL ENGINEERING INSPECTION AND CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RE-ESTABLISH THE PROPERTY CORNERS WHICH HAVE BEEN LOST DURING CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR.
- WORK SHALL NOT COMMENCE UNTIL ALL PERMITS REQUIRED FOR THE SUBJECT PORTION OF THE PROJECT ARE OBTAINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL REQUIRED PERMITS AND/OR EVIDENCE OF COMPLIANCE WITH APPLICABLE REGULATIONS ON SITE AT ALL TIMES DURING THE EXECUTION OF WORK. SPECIFIC PERMITS MAY BE REQUIRED FOR THE INSTALLATION OF POTABLE WATER LINES, SANITARY SEWER LINES, STORMWATER PIPES, ETC. TREE BARRICADES AND EROSION SILTATION CONTROL MUST BE INSTALLED AND MAINTAINED PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO DEMOLITION AND/OR CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA (IF APPLICABLE).
- NO STOCKPILING OF MATERIALS IN ROADWAY ROW OR ON SIDEWALK. ROW, ROADS AND SIDEWALKS TO BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
- CONTRACTOR IS TO EXERCISE CAUTION IN THE VICINITY OF TREES TO REMAIN AND IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS WORK.
- GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ELECTRICAL SERVICE EQUIPMENT IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE PROJECT GEOTECHNICAL REPORT AND ADHERE TO THE RECOMMENDATIONS FOR PAVEMENT SECTIONS AND ANY OTHER RECOMMENDATIONS RELATED TO CONSTRUCTION OF THIS PROJECT.
- CONTRACTOR SHALL BECOME FAMILIAR WITH WATER MANAGEMENT DISTRICT PERMIT, FDEP NOTICE OF INTENT, FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, PROJECT STORMWATER POLLUTION PREVENTION PLAN (ATTACHED), RIGHT-OF-WAY, UTILITY, AND ALL PERMITS ASSOCIATED WITH THE PROJECT.
- ALL NOTES APPLY TO ALL SHEETS WHERE APPLICABLE.

## WATER SYSTEM TESTING AND INSPECTION REQUIREMENT NOTES

- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, THRUST BLOCKING, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH OWNING UTILITY SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND OWNING UTILITY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- INSPECTION BY THE BUILDING DEPARTMENT MAY BE REQUIRED AND MUST COMPLY WITH FLORIDA BUILDING CODE (FBC). THESE FBC COMPLIANCE INSPECTIONS ARE LIMITED TO THE DOWNSTREAM SIDE OF BACKFLOW PREVENTORS TO THE BUILDING.

## TESTING REQUIREMENTS

CONTRACTOR IS REQUIRED TO PROVIDE ALL TESTING IN ACCORDANCE WITH LATEST EDITION OF LOCAL GOVERNMENT AGENCY AND FDOT DESIGN MANUALS AND SPECIFICATIONS, IN ADDITION TO THOSE STATED WITHIN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THIS PROJECT. TESTING TO INCLUDE, BUT NOT LIMITED TO ALL REQUIRED COMPACTION TESTING, BORINGS, ASPHALT GRADATION, EXTRACTION TESTS, CORES, AND CONCRETE TESTING, ETC.

## GENERAL UTILITY NOTES

- EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED, OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
- ABOVE GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK. IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES, UNDERGROUND FACILITY DAMAGE PREVENTION & SAFETY. ALL UTILITY OWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT. THE CONTRACTOR SHALL FURTHER COORDINATE WITH UTILITY OWNERS TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AS A RESULT OF THE CONTRACTORS' FAILURE TO CALL "SUNSHINE STATE ONE CALL" AND THE UTILITY OWNERS.
- THE CONTRACTOR IS REQUIRED TO COORDINATE AND/OR PROVIDE FOR THE BRACING/SUPPORT OF EXISTING UTILITY POLES WITH THE UTILITY OWNERS, PRIOR TO THE COMMENCEMENT OF EXCAVATION/CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES AS REQUIRED TO ISOLATE PIPELINES INSTALLED UNDER THIS CONTRACT FOR THE PERFORMANCE OF TESTING UNDER THIS CONTRACT. LIKEWISE, PROVIDE TEMPORARY FACILITIES AS REQUIRED TO MAINTAIN WASTEWATER SERVICE THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL EXISTING WATER MAINS, SANITARY SEWER LINES, WATER/SEWER PUMP STATIONS AND OTHER UTILITIES SHALL REMAIN IN SERVICE UNTIL THE RELOCATED UTILITIES ARE PLACED IN SERVICE. COORDINATE ALL UTILITY RELATED CONSTRUCTION ACTIVITIES WITH THE OWNER OF THESE UTILITIES.
- ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY WILL BE IN ACCORDANCE WITH THE PRACTICES REQUIRED BY FDOT AND LOCAL GOVERNMENT AGENCY LAND DEVELOPMENT CODE ALONG WITH THE FDOT UTILITY ACCOMMODATION MANUAL.
- CONTRACTOR WILL NOTIFY THE RESPONSIBLE UTILITY FOR RELOCATION OF METER BOXES FOR POTABLE WATER AND NON-POTABLE WATER SERVICES.
- THE LOCATIONS AND SIZE OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. FURTHER, THERE IS NO GUARANTEE THAT ALL EXISTING FACILITIES HAVE BEEN FOUND OR SHOWN. THE CONTRACTOR IS FOREWARNED TO ASCERTAIN AND DETERMINE PRECISE LOCATIONS PRIOR TO EXCAVATING. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL VOLTAGES CARRIED IN OVERHEAD OR UNDERGROUND UTILITY SERVICES. NO CLAIM FOR EXTRA COST SHALL BE MADE AGAINST THE OWNER OR ENGINEER AS A RESULT OF THE FOREWARNED APPROXIMATIONS. THE CONTRACTOR SHALL LOCATE EXACTLY ALL UTILITIES THAT CROSS THE PROPOSED PROJECT LIMITS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER, CITY AND COUNTY INCLUDING ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" (811) A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY AND COORDINATE WATER AND SEWER SERVICES WITH LOCAL GOVERNMENT AGENCY.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE ROADWAY BASE AND SURFACE ARE CONSTRUCTED.
- ALL PIPE LENGTHS ARE PLUS OR MINUS.
- PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS. PIPE MEASUREMENTS FOR MITERED END SECTIONS ARE TO END OF PIPE.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
- ADJUSTMENT OF INLETS, JUNCTION BOXES, MANHOLE TOPS, WATER VALVES, WATER METERS, ETC. SHALL BE INCLUDED AND NO CLAIM SHALL BE MADE AGAINST THE OWNER OR ENGINEER FOR THESE ADJUSTMENTS, IF REQUIRED.
- ALL BACKFILL OVER ANY PIPE (STORM SEWER, SANITARY SEWER, OR WATERLINES) THAT IS INSTALLED UNDER ROADWAYS OR WITHIN THE EMBANKMENT OF THE ROADWAY, SHALL BE COMPACTED IN ACCORDANCE WITH FLORIDA D.O.T. STANDARD SPECIFICATIONS, SECTION 128-8 (BACKFILLING), LATEST EDITION OR LOCAL GOVERNMENT AGENCY REQUIREMENTS.
- ALL EXISTING UTILITIES (INCLUDING STORMWATER FACILITIES) SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES AND ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTORS ACTIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO REPAIR IN KIND ANY DISTURBED AREAS DUE TO UTILITY INSTALLATIONS. CONTRACTOR TO ROOT PRUNE ANY TREES IN VICINITY OF PROPOSED UTILITY INSTALLATIONS.
- DUCTILE IRON PIPE MUST BE INSTALLED BETWEEN ANY TAP AND BACKFLOW PREVENTER DEVICE. AT LEAST ONE JOINT OF DUCTILE IRON PIPE TO BE INSTALLED ON THE SERVICE SIDE OF ANY BACKFLOW PREVENTER DEVICE.
- WASTEWATER PUMP STATION START-UP TEST, WHETHER COUNTY-OWNED OR PRIVATELY-OWNED, MUST BE SCHEDULED THREE BUSINESS DAYS IN ADVANCE BY THE CONTRACTOR OR HIS REPRESENTATIVE BY CONTACTING GEORGEANN BENNETT, ENGINEERING RECORDS TECHNICIAN AT (727) 847-8145, EXTENSION 8621. THE PASCO COUNTY UTILITIES INSPECTOR AND OPERATION AND SEWER MAINTENANCE STAFF MUST BE PRESENT AS PART OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) CERTIFICATION/CLEARANCE PROCESS.

## ELECTRICAL AND TELEPHONE NOTES

- ALL ELECTRICAL SERVICE SHALL BE INSTALLED UNDERGROUND.
  - ELECTRIC SERVICE TO POINTS OF CONNECTION TO BE PROVIDED BY UTILITY OWNER; CONTRACTOR TO COORDINATE.
  - CONTRACTOR TO INSTALL PVC CONDUITS FOR ELECTRICAL AND TELEPHONE SERVICE (TO PROPERTY LINE) AND COORDINATE INSTALLATION OF SERVICES AND LIGHTING DESIGN WITH UTILITY AGENCY.
  - CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR RELOCATION OF ANY POWER POLES WITHIN PROJECT AREA AND RIGHT-OF-WAYS.
  - CONTRACTOR TO EXERCISE EXTREME CARE IN NEW CONSTRUCTION AREAS TO AVOID IMPACTS TO HIGHLY SENSITIVE UTILITIES.
- FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.
  - ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR SR 82 SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEED OF 45 MPH.

## GENERAL SANITARY SEWER NOTES

- MANHOLES SHALL BE INSPECTED BY THE OWNING UTILITY AND ENGINEER AFTER THE COMPLETION OF ALL BASE WORK, AND PRIOR TO SURFACE TREATMENT.
- ALL OPENINGS IN PRE-CAST MANHOLES SHALL BE CAST AT TIME OF MANUFACTURE. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE ENTRY ONLY.
- ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE AS SHOWN ON PLANS.
- ALL P.V.C. GRAVITY SEWER MAINS SHALL CONFORM TO A.S.T.M. D-3034, S.D.R.-26, LATEST REVISIONS, WITH PUSH-ON RUBBER GASKET JOINTS.
- ALL D.I.P. GRAVITY SEWER PIPES SHALL BE CLASS 82, EPOXY LINED OR AS OTHERWISE APPROVED BY THE ENGINEER.
- NO SERVICE CONNECTIONS, WYES, SERVICES OR VALVES WILL BE PERMITTED IN RESIDENTIAL DRIVEWAYS, EXCEPT UPON APPROVAL OF THE OWNING UTILITY OR ENGINEER.
- MANHOLE FRAMES THAT ARE NOT SUPPORTED BY ASPHALT OR CONCRETE SHALL BE ATTACHED TO THE PRE-CAST STRUCTURE WITH A MINIMUM OF TWO 3/4" 316 STAINLESS STEEL BOLTS, NUTS AND WASHERS. FRAMES SHALL BE SEALED WITH A MINIMUM OF TWO 1/2" BEADS OF RAM-NEK CAULKING.
- TRENCHES SHALL BE DE-WATERED TO ENABLE PIPE AND APPURTENANCES TO BE INSTALLED FREE OF WATER ON UNDISTURBED SOIL. IF UNSUITABLE SUBSURFACE MATERIAL IS ENCOUNTERED, EXCAVATE EXTRA 6" AND BACK FILL WITH 3/4" GRAVEL.
- P.V.C. PIPES SHALL BE LAID IN STRICT CONFORMANCE TO THE MANUFACTURER'S SPECIFICATIONS. BACKFILLING OF UTILITY TRENCHES WILL NOT BE ALLOWED UNTIL INSPECTED BY THE OWNING UTILITY AND ENGINEER.
- BACK FILL MATERIAL FOR SEWER MAIN AND LINES SHALL BE NON-COHESIVE, NON-PLASTIC MATERIAL FREE OF ALL DEBRIS, LUMPS AND ORGANIC MATTER. BACK FILL MATERIAL PLACED WITHIN 1' OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY SOLID MATERIAL LARGER THAN 2" IN DIAMETER (1" FOR P.V.C. PIPE), AND NO SOLID MATERIAL LARGER 6" IN DIAMETER WILL BE PERMITTED IN ANY BACK FILL MATERIAL.
- ALL EXCAVATION IN EXISTING RIGHT OF WAY SHALL BE BACK FILLED AND STABILIZED AT THE END OF EACH DAY TO PERMIT PEDESTRIAN AND VEHICULAR TRAFFIC PRIOR TO THE CONTRACTOR LEAVING THE CONSTRUCTION SITE.
- IN ANY INSTANCE WHERE SEWER LINES ARE NOT INSTALLED WITHIN PUBLIC RIGHTS-OF-WAY, ALL LINES SHALL BE LOCATED IN A PUBLIC UTILITY EASEMENT, AND OWNING UTILITY MAINTENANCE RESPONSIBILITY IS MANHOLE TO MANHOLE ONLY.
- UPON COMPLETION OF THE WORK AND PRIOR TO PLACEMENT OF ASPHALT A VISUAL INSPECTION AND REQUIRED TESTING SHALL BE MADE OF THE COMPLETED SYSTEM. THE OWNING UTILITY SHALL APPROVE THE SYSTEM PRIOR TO IT BEING PLACED IN SERVICE, AND BEING ACCEPTED FOR MAINTENANCE.
- COMPLETE "AS-BUILT" INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES, FITTINGS, PIPE LENGTHS, INVERTS AND SLOPES SHALL BE ACCURATELY RECORDED AND TEN (10) COPIES MUST BE SUBMITTED TO THE ENGINEER. ALL COPIES MUST BE SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED ENGINEER OR LAND SURVEYOR.
- AT THE END OF THE WARRANTY PERIOD THE OWNING UTILITY WILL T.V. INSPECT, AND CHECK MANHOLE JOINTS AND CONNECTIONS TO DETERMINE IF REPAIRS ARE NECESSARY BEFORE THE WARRANTY BOND IS RELEASED.
- ONLY EIGHT(8) INCH MAINS (PRIVATE), WILL BE VISUALLY INSPECTED AND VIDEO RECORDED. EIGHT(8) INCH PIPE LESS THAN SIXTY(60) FEET LONG WILL BE EXEMPT. COPIES OF ALL VIDEO TAPES WILL BE PROVIDED TO THE CERTIFYING ENGINEER.
- THE CONTRACTOR MUST SCHEDULE THE LIFT STATION START UP THREE DAY IN ADVANCE BY CONTACTING GEORGEANN BENNETT, ENGINEERING RECORDS TECHNICIAN AT (727) 847-8145. THE PASCO COUNTY UTILITIES INSPECTOR AND OPERATION AND SEWER MAINTENANCE STAFF MUST BE PRESENT AS PART OF THE FDEP CERTIFICATION/CLEARANCE PROCESS.

## TRAFFIC CONTROL/MOT NOTES

- THE CONTRACTOR IS REQUIRED TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO LOCAL GOVERNMENT AGENCY FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL INSTALL ALL APPROVED TRAFFIC CONTROL DEVICES PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, INSTALLATION, AND COORDINATION OF ALL TRAFFIC SIGNS AND BARRICADES WITH LOCAL GOVERNMENT AGENCY.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT AGENCY PUBLIC WORKS OFFICE, RIGHT-OF-WAY, THE FIRE DEPARTMENT, THE POLICE DEPARTMENT, ALL GOVERNMENTAL TRAFFIC DEPARTMENTS, AND ANY ADJACENT BUSINESSES PRIOR TO ANY STREET BEING CLOSED OR MADE IMPASSABLE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY GRADE TRANSITIONS DURING CONSTRUCTION TO ALLOW VEHICULAR ACCESS TO ADJACENT RESIDENTS, AS NECESSARY TO PROVIDE ACCESS.
- SIGNS & BARRICADES SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" INDEXES 600 THRU 670 (LATEST EDITION)
- MAINTENANCE OF TRAFFIC FOR THE WORK TO BE PERFORMED WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX NUMBERS 600, 611, 612, 613, AND 660. NO LANE CLOSURES ARE PERMITTED WITHOUT PRIOR APPROVAL HAVING BEEN OBTAINED FROM LOCAL GOVERNMENT AGENCY INSPECTOR.
- CONTRACTOR TO REFER TO FDOT INDEX NO. 680 FOR ALL MAINTENANCE OF PEDESTRIAN TRAFFIC AND CONTROL FOR SIDEWALK CLOSURES.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND EASILY ACCESSIBLE PAVED OR UNPAVED PATHWAY FOR PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE FOR THE DURATION OF THE PROJECT. IF THE PATHWAY LIES ALONG A DESIGNATED SCHOOL ROUTE, THEN THE CONTRACTOR MUST PROVIDE ADEQUATE SUPERVISION AND/OR GUIDANCE TO THE SCHOOL AGED STUDENTS AS THEY TRAVERSE THRU THE WORK ZONE.
- THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL APPROPRIATE AGENCIES (PARTIAL LIST BELOW) PRIOR TO ANY LANE CLOSURES ON AN ARTERIAL OR COLLECTOR ROADWAY THAT WOULD EXCEED ONE HOUR IN LENGTH.
  - PUBLIC WORKS
  - SHERIFF'S OFFICE
  - TRANSIT AUTHORITY
  - SCHOOL TRANSPORTATION
  - EMS & FIRE ADMINISTRATION
- FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR SR 82 SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEED OF 45 MPH.

## WATER SYSTEM NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE OWNING UTILITY STANDARDS, SPECIFICATIONS, ORDINANCES AND REGULATIONS. POTABLE AND GRAY WATER CONNECTIONS FROM THE DOWNSTREAM SIDE OF BACKFLOW PREVENTORS TO BUILDING MUST COMPLY WITH LATEST FBC PLUMBING VOLUME.
- WATER MAIN SHALL BE LAID 3 FEET OR MORE BELOW PROPOSED GRADE (UNLESS OTHERWISE NOTED ON PLANS OR CONTRACT DOCUMENTS AND SPECIFICATIONS).
- CONFLICTS BETWEEN WATER AND STORM, SANITARY SEWER AND UNDERDRAIN SYSTEMS ARE TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY UPON APPROVAL BY OWNER AND OWNERS ENGINEER. BUILDING CONNECTIONS OF WATER AND SEWER SHALL COMPLY WITH FBC PLUMBING SECTION.
- FIRE HYDRANTS SHALL BE INSTALLED WITH HOSE NOZZLE FACING STREETS OR AS DIRECTED BY THE OWNING UTILITY. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED IN A MANNER THAT MAINTAINS AT LEAST SIX (6) FEET OF CLEARANCE BETWEEN BACK OF CURB AND THE HYDRANT.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PUBLIC AGENCY(IES) PRIOR TO COMMENCING WORK WITHIN THEIR JURISDICTION(S).
- THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.
- ALL WORK WITHIN RIGHTS-OF-WAY AND EASEMENTS WILL REQUIRE A SEPARATE PERMIT AND MAY REQUIRE AN ALTERATION TO CONSTRUCTION PERMITS. MATTERIALS SHOWN ON THESE PLANS, RIGHT-OF-WAY PERMIT APPLICATIONS SHOULD BE SUBMITTED NO LATER THAN THIRTY (30) DAYS BEFORE THAT RIGHT-OF-WAY OR EASEMENT WORK IS TO COMMENCE.
- THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS OF VALVE BOX COVERS, MANHOLE RIMS AND COVER, GRATES, ETC., NECESSARY TO MATCH FINAL GRADES.
- ALL PIPE LENGTHS ARE APPROXIMATE AND ARE TYPICALLY MEASURED FROM CENTER OF FITTINGS AND STRUCTURES.
- ALL UNDERGROUND UTILITIES WITHIN PAVEMENT MUST BE INSTALLED BEFORE ROADWAY BASE AND SUBSURFACE COURSES ARE CONSTRUCTED.
- COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%) (UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS AND SPECIFICATIONS).
- ALL WATER MAINS SHALL BE DUCTILE IRON UNLESS OTHERWISE SPECIFIED. WATER MAINS SHALL CONFORM TO AWWA C 1514 MINIMUM CLASS 50. PIPE SHALL BE FURNISHED IN 18 OR 20- FOOT LAYING LENGTHS. PIPE SHALL BE LINED WITH A STANDARD THICKNESS CEMENT MORTAR LINING AND SEAL COATED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C 104/A21.4. PIPE THICKNESS CLASS SHALL BE CLASS 50 UNLESS OTHERWISE SPECIFIED. ALL JOINTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANSII/AWWA C 11/A21.11. IN AREAS WHERE THE SOIL IS DETERMINED TO BE CORROSIVE OR HIGH GROUND WATER IS EXPECTED, THE PIPE SHALL BE INSTALLED IN LOOSE POLYETHYLENE ENCASEMENT NOT LESS THAN 8 MILS THICK AND INSTALLED IN ACCORDANCE WITH ANSI SPECIFICATION A21.51.
- A MINIMUM 6-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 6-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 12 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE. WHERE THE SANITARY SEWERS, FORCE MAINS, RECLAIMED WATER MAINS AND STORM SEWERS MUST CROSS A POTABLE WATER MAIN WITH LESS THAN 12 INCHES VERTICAL DISTANCE: (1) BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED) ALSO, A SANITARY SEWER OR FORCE MAIN MAY BE C90 PVC AT THE CROSSING). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. (2) ALTERNATIVELY, ONE OF THE CROSSING MAINS SHALL BE ENCASED WITHIN A 20 FOOT LONG STEEL OR PVC CASING CENTERED ON THE CROSSING. WHERE WATER MAINS CROSS BELOW SEWER MAIN, ENCASEMENT OF BOTH MAINS IS MANDATORY. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL SEPARATION OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING), WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- ALL ON-SITE PVC WATER MAINS 4-12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 STANDARDS. ALL ON-SITE PVC WATER MAINS 2-3 INCHES SHALL BE CLASS 1120 OR 1220. (SDR 21) AND MEET REQUIREMENTS OF ASTM D-2241. WATER MAINS SMALLER THAN 2 INCHES SHALL BE CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D-1785. (REFER TO CONTRACT DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS).
- PE PIPE 2" OR SMALLER SHALL MEET REQUIREMENTS OF ASTM D-1248.
- ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINTS WHERE APPLICABLE AND SHALL CONFORM TO THE OWNING UTILITY SPECIFICATIONS AND DETAILS.
- COMPLETE "AS-BUILT" INFORMATION RELATIVE TO VALVES, SERVICES, FIRE HYDRANTS, FITTINGS, PIPE LENGTHS, INVERTS AND SLOPES SHALL BE ACCURATELY RECORDED AND TEN (10) COPIES MUST BE SUBMITTED TO THE ENGINEER. ALL COPIES MUST BE SIGNED AND SEALED BY A REGISTERED ENGINEER OR LAND SURVEYOR.

## GENERAL NOTES 1



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**GENERAL DUST CONTROL NOTES**

- CONTRACTOR TO USE BEST MANAGEMENT PRACTICES (BMPs) TO REDUCE SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR TO BECOME FAMILIAR WITH THE CONTENTS OF THE STORMWATER POLLUTION PREVENTION PLAN AND KEEP A COPY ON SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMAL OR PLANT LIFE, AND IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY TO OCCUR IF PREVENTIVE MEASURES ARE NOT TAKEN.
- CONSTRUCTION ACTIVITIES INEVITABLY RESULT IN THE EXPOSURE AND DISTURBANCE OF SOIL. FUGITIVE DUST IS EMITTED BOTH DURING THE ACTIVITIES (I.E., EXCAVATION, DEMOLITION, VEHICLE TRAFFIC, HUMAN ACTIVITY) AND AS A RESULT OF WIND EROSION OVER THE EXPOSED EARTH SURFACES. LARGE QUANTITIES OF DUST ARE TYPICALLY GENERATED IN 'HEAVY' CONSTRUCTION ACTIVITIES, SUCH AS ROAD AND STREET CONSTRUCTION AND SUBDIVISION, COMMERCIAL AND INDUSTRIAL DEVELOPMENT, WHICH INVOLVE DISTURBANCE OF SIGNIFICANT AREAS OF SOIL SURFACE. RESEARCH AT CONSTRUCTION SITES HAS ESTABLISHED AN AVERAGE DUST EMISSION RATE OF 1.2 TONS/ACRE/MONTH FOR ACTIVE CONSTRUCTION. EARTH- MOVING ACTIVITIES COMPRISE THE MAJOR SORES OF CONSTRUCTION DUST EMISSIONS, BUT TRAFFIC AND GENERAL DISTURBANCE OF THE SOIL ALSO GENERATE SIGNIFICANT DUST EMISSION. IN PLANNING FOR DUST CONTROL, IT SHOULD BE OBVIOUS THAT THE LESS SOIL IS EXPOSED AT ANY ONE TIME, THE LESS POTENTIAL THERE WILL BE FOR DUST GENERATION. PHASING A PROJECT AND UTILIZING TEMPORARY STABILIZATION PRACTICES UPON THE COMPLETION OF GRADING CAN SIGNIFICANTLY REDUCE DUST EMISSION.

**TEMPORARY MEASURES:**

- MULCHES- A NATURAL OR ARTIFICIAL LAYER OF PLANT MATERIALS OR OTHER MATERIALS THAT WILL NOT FLOAT OR WASH AWAY.
- VEGETATIVE- TEMPORARY SEEDING OR GROUND COVERS.
- TILLAGE- THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN FLOWING ON WINDWARD SIDE OF SITE. CHISEL -TYPE PLOWS (WITH 12-INCH SPACING), SPRING -TOOTHED HROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION- THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED, TO PREVENT CARRYOUT OF MUD ONTO STREETS, REFER TO TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- BARRIERS- SOLID BOARD FENCE, BUR LAY FENCE, CREATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- PERMANENT VEGETATION- PERMANENT SEEDING AND PERMANENT STABILIZATION WITH SOD.
- TOP SOILING- THIS ENTAILS COVERING THE SURFACE WITH LESS EROISIVE SOIL MATERIAL.
- STONE- COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AND EXIT NOTES**

**DEFINITION:**  
A STONE STABILIZER PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

**PURPOSE:**  
TO STABILIZE ENTRANCES TO THE CONSTRUCTION SITE AND REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PUBLIC ROADS AND STORM WATER SYSTEMS BY MOTOR VEHICLES OR RUNOFF.

**CONDITIONS WHERE PRACTICE APPLIES:**  
WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY INTO A PUBLIC ROAD OR OTHER PAVED AREA.

**PLANNING CONSIDERATIONS:**  
CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THEY ENTER A PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE MOST OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF- SITE. CONSTRUCTION ENTRANCE SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.

CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THEY ENTER A PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE MOST OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF- SITE. CONSTRUCTION ENTRANCE SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.

**DESIGN CRITERIA**  
**AGGREGATE SIZE:**  
FDOT NO. 1 COARSE AGGREGATE (1.5-3.5 INCH STONE) (4-9 CM) SHOULD BE USED.

**ENTRANCE DIMENSIONS:**  
THE AGGREGATE MUST BE AT LEAST 6 INCHES (15 CM) THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA, OR A MINIMUM OF 20'. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET (20 M), IF POSSIBLE OR AS DIRECTED BY THE CITY ENGINEER. THE ENTRANCE MUST WIDEN AT ITS CONNECTION TO THE ROADWAY IN ORDER TO ACCOMMODATE THE TURNING RADIUS OF LARGE TRUCKS.

**WASHING:**  
IF CONDITIONS ON THE SITE AREA IS SUCH THAT MOST OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO THE SETTING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.

**LOCATION:**  
THE ENTRANCE SHOULD BE LOCATED FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

**CONSTRUCTION SPECIFICATIONS:**  
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. A GEOTEXTILE SHOULD BE LAID DOWN TO IMPROVE STABILITY AND SIMPLIFY MAINTENANCE. THE GRAVEL SHALL THEN BE LACED OVER THE GEOTEXTILE TO THE SPECIFIED DIMENSIONS.

**MAINTENANCE:**  
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH (5 CM) STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. LOOK FOR SIGNS OF TRUCKS AND TRAILERED EQUIPMENT 'CUTTING CORNERS' WHERE GRAVEL MEETS THE ROADWAY. SWEEP THE PAVED ROAD DAILY FOR SEDIMENTS AND STONES.

STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

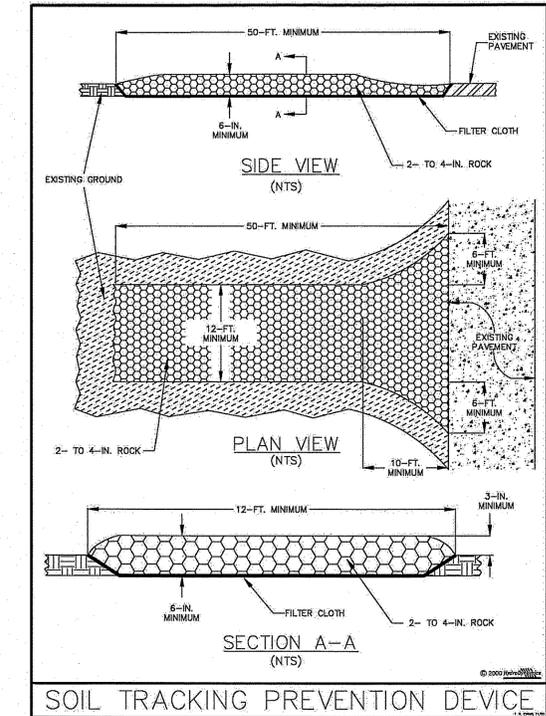


Figure V-52: Illustration of a Soil Tracking Prevention Device

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V-31

**1 SOIL TRACKING PREVENTION DEVICE**  
SCALE: N.T.S.

**EROSION CONTROL MEASURES NOTE:**

REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTERS 403-4 AND 408-49, F.A.C. INITIATION OF CIVIL PENALTY PROCEDURES PURSUANT TO SECTION 373.129, F.A.C., CAN RESULT IN A PENALTY NOT TO EXCEED \$10,000 PER OFFENSE WITH EACH DATE DURING WHICH SUCH VIOLATION OCCURS CONSTITUTING A SEPARATE OFFENSE. CONTRACTOR TO ADHERE TO GENERAL DUST CONTROL NOTES, EROSION, SILTATION, AND SEDIMENT CONTROL NOTES, AND SILT FENCE, TURBIDITY BARRIER, AND TREE BARRICADE DETAILS INCLUDED IN THESE DOCUMENTS.

**FUGITIVE DUST CONTROL NOTE**

THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS TO ELIMINATE THE TRANSPORT OF DUST FROM THE PROJECT SITE. SPECIAL MEASURES, SUCH AS PERIODICALLY APPLYING WATER TO THE WORK SITE TO PREVENT DUST SHALL BE INCORPORATED INTO THE CONTRACTORS WORK PLAN. CONTRACTOR TO ADHERE TO DUST CONTROL NOTES INCLUDED IN THESE DOCUMENTS.

**CLEARING AND GRUBBING**

THE CONTRACTOR SHALL ONLY REMOVE TREES DESIGNATED FOR REMOVAL IN THE PLAN, OR AS DIRECTED BY THE OWNER, ARCHITECT, AND ENGINEER. CONTRACTOR IS TO OBTAIN THE TREE REMOVAL PERMIT FROM LOCAL GOVERNMENT AGENCY.

- WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, STORMWATER STRUCTURES, AND PIPES, ALL STUMPS, AND ROOTS, ETC., SHALL BE REMOVED COMPLETELY FROM THE AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS.
- ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE.
- IF APPLICABLE, THE CONTRACTOR SHALL REMOVE ALL DRIVEWAYS, SIDEWALKS, CURBS, AND ALL ABANDONED UTILITY LINES, PIPES, STRUCTURES, AND OTHER SUBTERRANEAN OBJECTS WITHIN PROJECT AREA TO A MINIMUM DEPTH OF FOUR (4) FEET BELOW GRADE, OR AS OTHERWISE DIRECTED BY THE ENGINEER.

**GENERAL NOTES 2**



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**STORMWATER POLLUTION PREVENTION PLAN**

PROJECT NAME: O'REILLY AUTO PARTS (LAND O' LAKES #1)

PROJECT ADDRESS:  
3600 LAND O' LAKES BOULEVARD  
LAND O' LAKES, FLORIDA  
PASCO COUNTY

OWNER'S ADDRESS:  
233 SOUTH PATTERSON  
SPRINGFIELD, MISSOURI 65802  
417-862-2674 PHONE

DESCRIPTION OF PURPOSE AND TYPES OF SOIL DISTURBING ACTIVITIES:  
PROPERTY AREA APPROXIMATELY = 2.193 ACRES  
PROJECT AREA APPROXIMATELY = 2.193 ACRES  
CONSTRUCTION PROPOSED: GENERAL COMMERCIAL - AUTO PARTS RETAIL

SOIL DISTURBING ACTIVITIES WILL INCLUDE:  
CLEARING EXISTING VEGETATION

WETLAND ACTIVITIES INCLUDE:  
NO WETLAND IMPACTS ARE PROPOSED FOR THE PROJECT

CONSTRUCTION REMOVAL ACTIVITIES WILL INCLUDE:  
REMOVE EXISTING PAVEMENT

STORMWATER DRAINAGE AREA:  
BASIN AREA: 2.193 ACRES  
PRE-DEVELOPMENT CURVE NUMBER (CN): XX  
POST DEVELOPMENT CURVE NUMBER (CN): XX

WATER QUALITY: WATER QUALITY TREATMENT PROVIDED IN ON-SITE DRY RETENTION SYSTEM

WATER QUANTITY: WATER QUANTITY PROVIDED IN ON-SITE DRY RETENTION SYSTEM

**SEQUENCE OF MAJOR ACTIVITIES**

1. INSTALL STAKED SILT FENCE AND EROSION CONTROL AS SHOWN ON THE SITE DEMOLITION PLAN.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE (IF REQUIRED).
3. COMPLETE SITE PREPARATION PLAN, GRADING, DRAINAGE PLAN, AND UTILITY ONSITE/OFFSITE PLANS.
4. INSTALL NEW UTILITIES, STORM SYSTEMS, AND CONSTRUCT BUILDING AND PARKING.
5. FILL AND GRADE DISTURBED AREAS.
6. REPAIR ANY WASHED OUT AREAS, INSTALL PLANTING MATERIAL AS SHOWN ON LANDSCAPE PLAN. SOIL, SEED, AND MULCH DISTURBED AREAS AS INDICATED ON PLANS.
7. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

NAME OF RECEIVING WATERS:  
THE PROPOSED IMPROVEMENTS WILL DISCHARGE TO A PROPOSED RETENTION POND.

**CONTROLS**

**EROSION AND SEDIMENT CONTROLS**

CONTRACTOR TO USE BEST MANAGEMENT PRACTICES (BMPs) DURING AND AFTER CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTATION AND TO PROPERLY MANAGE RUNOFF FOR BOTH STORMWATER QUANTITY AND QUALITY. CONTRACTOR TO ADHERE TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENTATION CONTROL MANUAL.

BEFORE SITE DISTURBANCE OCCURS, PERIMETER CONTROLS, SEDIMENT TRAPS, BASINS, AND DIVERSIONS MUST BE SET IN PLACE BY THE CONTRACTOR TO CONTROL RUNOFF AND CAPTURE SEDIMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. CONTRACTOR WILL COMPLY WITH EROSION CONTROL PLAN AND DETAILS. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. CONTRACTOR SHALL REMOVE ALL SEDIMENT THAT HAS MIGRATED OFF-SITE. THE EROSION CONTROL DEVICES FOR THESE ACTIVITIES ARE SPECIFIED IN THE PLANS AND ACCORDING TO "DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (CURRENT EDITION), SECTION 104. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE NEEDED AND DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL EROSION CONTROL DEVICES.

**STABILIZATION PRACTICES:**

**WIND EROSION STABILIZATION**

-THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A TWO (2) WEEK TIME-FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.

**TEMPORARY STABILIZATION**

-TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMOUDA SEED AND 80 PARTS OF PENNSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMOUDA OR BAHIA GRASS HAY. ONLY UNDERTEMPERATED MULCH, WHICH CAN BE READILY CUT INTO THE SOIL, SHALL BE USED. AREAS OF THE SITE, WHICH ARE TO BE PAVED, WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE. TREE BARRICADES WHERE REQUIRED.

**PERMANENT STABILIZATION**

-DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SO3 NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

**SEDIMENT BASINS**

- IF APPLICABLE, SEDIMENT BASINS TO BE CONSTRUCTED BY THE CONTRACTOR TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS LONG ENOUGH FOR MOST OF THE SEDIMENT TO SETTLE OUT. SEDIMENT BASINS SHOULD BE USED TOGETHER WITH EROSION CONTROL PRACTICES SUCH AS TEMPORARY SEEDING, MULCHING, DIVERSION BERMS, ETC., TO REDUCE THE AMOUNT SEDIMENT FLOWING INTO THE STORM SYSTEM.

**DEWATERING**

DEWATERING IS NOT PROPOSED WITH THIS PROJECT. IF CONTRACTOR IS PLANNING TO DEWATER, THE CONTRACTOR MUST APPLY TO THE WATER MANAGEMENT DISTRICT AND ALL OTHER LOCAL GOVERNING AGENCIES.

**STRUCTURAL PRACTICES**

**STAKED SILT FENCES**

- THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE CONSTRUCTION LIMITS OR AS DEPICTED ON THE EROSION CONTROL & DEMOLITION PLANS AND/OR ON OTHER CONSTRUCTION PLANS. THESE DEVICES WILL STOP AND DIVERT RUNOFF FROM THE SITE TO OTHER SURFACE WATERS.

**OTHER CONTROLS / WASTE DISPOSAL**

**OFFSITE VEHICLE TRACKING**

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPULAIN AT ALL TIMES.

**WASTE MATERIALS**

- ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE DUMPED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY. AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING. NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANAGER RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGE TO ADJACENT WATERWAYS OR WETLANDS OR BURIED ON SITE.

**HAZARDOUS WASTE**

THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PERMITTING AGENCY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION AND CONSTRUCTION.

THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR NOTIFYING THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF DISCOVERY.

IF ENCOUNTERED, HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

**SANITARY WASTE**

ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, IN ACCORDANCE WITH FDOT STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION 2010 EDITION SECTION 7-6, AND AS REQUIRED BY LOCAL REGULATIONS.

**TIMING OF CONTROL MEASURES**

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, EROSION CONTROL, AND STABILIZED CONSTRUCTION ENTRANCES CONSTRUCTED PRIOR TO GRUBBING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SO3. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.

**MAINTENANCE INSPECTION PROCEDURES**

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL.

LESS THAN ONE HALF OF THE SITE WILL BE DENUDED AT ONE TIME PRIOR TO ESTABLISHING EROSION CONTROL. MANAGEMENT ALL CONTROL MEASURES WILL BE INSPECTED ONCE PER DAY AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER BY A CONTRACTOR'S REPRESENTATIVE.

ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

IF APPLICABLE, THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE CONSTRUCTION TRAILER. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES. FILLING OUT THE INSPECTION AND MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.

**STORM WATER MANAGEMENT**

STORMWATER MANAGEMENT WILL BE PROVIDED BY A PROPOSED ON-SITE STORM WATER MANAGEMENT SYSTEM. PROPOSED ON-SITE STORMWATER INFRASTRUCTURE WILL INCLUDE STORM PIPES AND DITCH BOTTOM INLETS. CONTRACTOR TO INSTALL SILT FENCE AROUND PROJECT LIMITS.

**WETLAND MITIGATION**

WETLAND MITIGATION IS NOT APPLICABLE FOR THE PROPOSED PROJECT.

**NON-STORM WATER DISCHARGES**

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 SPILL OR LEAKS OF TOXIC OR VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR MUST NOTIFY THE OWNER AND ENGINEER.

**MAINTENANCE AND INSPECTION**

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH LOCAL GOVERNMENT AGENCY TECHNICAL SPECIFICATIONS, AND THE PROJECT CONSTRUCTION CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE FDEP NPDES / STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONSTRUCTION INSPECTION REPORT AFTER ANY 1/2 INCH RAINFALL OR WEEKLY IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAIN FALL. CONTRACTOR SHALL ALSO COMPLETE THE NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES.

**WATER MANAGEMENT DISTRICT - KEY PROVISIONS**

AN ENVIRONMENTAL RESOURCE PERMIT (ERP) IS REQUIRED, THE FOLLOWING KEY PROVISIONS MUST BE MAINTAINED BY THE PERMITTEE AND CONTRACTOR: (IN ACCORDANCE WITH THE BASIS OF REVIEW FOR ENVIRONMENTAL RESOURCE PERMIT (ERP) APPLICATIONS):

THE PERMITTEE AND CONTRACTOR SHALL AMEND THE CONSTRUCTION SURFACE WATER MANAGEMENT PLAN WHENEVER THE PROJECT IS ALTERED OR MODIFIED IN A MANNER THAT WILL RESULT IN:

- (1) THE POTENTIAL DISCHARGE OF POLLUTANTS
- (2) A CHANGE IN THE AMOUNT OF DISCHARGE
- (3) A CHANGE IN THE NUMBER OF LOCATION OF STORM WATER DISCHARGE POINTS, OR
- (4) ADVERSE IMPACTS TO WETLANDS, AND SUCH CHANGE(S) HAVE NOT OTHERWISE BEEN PREVIOUSLY ADDRESSED IN THE APPROVED PLAN. THE PERMITTEE AND CONTRACTOR SHALL ALSO AMEND THE PLAN IF ITS IMPLEMENTATION DOES NOT ELIMINATE OR MINIMIZE EROSION AND SEDIMENT DEPOSITION, OFF-SITE FLOODING, ADVERSE IMPACTS TO WETLAND, OR VIOLATIONS OF STATE WATER QUALITY STANDARDS. AMENDMENTS TO THE PLAN SHALL BE PREPARED AND KEPT AS SEPARATE DOCUMENTS ALONG WITH THE ORIGINAL PLAN. ALL ALTERATIONS TO THE SYSTEM MUST BE SHOWN ON THE AMENDED PLAN ALONG WITH THE DOCUMENTATION OR REQUIRED APPROVAL(S).

**SPILL PREVENTION**

**MATERIAL MANAGEMENT PRACTICES**

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

**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 PRODUCTS REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.

PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURER'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.

THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, WATERWAYS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).

**PETROLEUM PRODUCTS:**

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

**FERTILIZERS:**

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A SEALABLE PLASTIC BIN TO AVOID SPILLS.

**CONCRETE TRUCKS:**

CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, WATERWAYS, AND WETLANDS 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. CONTRACTOR TO PREPARE A DETAILED SITE PLAN FOR APPROVAL FOR THE CONCRETE DISCHARGE AND WASH DOWN ACTIVITIES.

**SPILL CONTROL PRACTICES**

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

- \* MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
- \* ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- \* THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- \* SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- \* THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
- \* THE CONTRACTOR WILL BE RESPONSIBLE FOR SPILL PREVENTION AND CLEANUP COORDINATION. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE. USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON-SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, THE CONTRACTOR MUST PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON-SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIME THE TOTAL CAPACITY OF STORAGE TANK BEING USED. CONTRACTOR HAS TO PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT.
- \* FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE OWNERS, ENGINEER OF RECORD AND PERMITTING AGENT INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

**INVENTORY FOR POLLUTION PREVENTION PLAN**

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION:

CONCRETE	FERTILIZERS
DETERGENTS	PETROLEUM BASED PRODUCTS AND FUELS
TAR	CLEANING SOLVENTS
SAND	WOOD
STONE	

**POLLUTION PREVENTION PLAN CERTIFICATION**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS HAVE BEEN READ BY ME OR MY DESIGNATED REPRESENTATIVE AND UNDERSTAND THAT THIS SYSTEM HAS BEEN PREPARED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER: O'REILLY AUTOMOTIVE STORES, INC.

APPLICANT AUTHORIZED AGENT: \_\_\_\_\_

SIGNED: \_\_\_\_\_

ADDRESS: 233 SOUTH PATTERSON  
SPRINGFIELD MISSOURI, 65802

PH: (417) 862-2674 FAX: (417) 829-5715

DATE: \_\_\_\_\_

**CONTRACTOR'S AND ENGINEER'S CERTIFICATION**

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 CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. I UNDERSTAND, AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (GCP), AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR O'REILLY AUTO PARTS STORE.

SIGNATURE:	FOR:	RESPONSIBLE FOR:
NAME: _____	COMPANY: _____	GENERAL CONTRACTOR
TITLE: _____	ADDRESS: _____	
DATE: _____	PHONE: _____	

**CERTIFIED ENGINEER**

NAME: THOMAS M. ROSE, PE	COMPANY: CARDNO
FL. REG. NO. 62860	380 PARK PLACE BLVD., SUITE 300
TITLE: PROJECT MANAGER	CLEARWATER, FL 33759
	PHONE: 727-531-3505

**NPDES NOTIFICATION (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM)**

ATTENTION: FAILURE TO MAINTAIN EROSION AND/OR SEDIMENTATION CONTROLS OR ANY ILLICIT DISCHARGE RESULTING FROM THEIR FAILURE WILL LIKELY RESULT IN FINE CITATIONS. CODE REGULATIONS AUTHORIZES PENALTIES OF UP TO \$10,000 FOR EACH OFFENSE.

ALL ACTIVITIES MUST CONFORM WITH FDEP NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. POLLUTION PREVENTION FROM THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE IMPLEMENTED IN ACCORDANCE WITH SWFWMD BASIS OF REVIEW SUBSECTION 2.8.4.

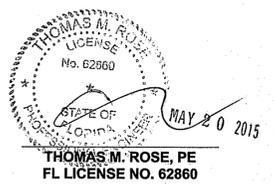
**KEY PROVISIONS**

1. IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
2. CONDUCTING AND DOCUMENTING ROUTINE INSPECTIONS AS REQUIRED.
3. RETENTION OF RECORDS REQUIRED BY THE PERMIT, INCLUDING RETENTION OF A COPY OF THE SWPPP AT THE CONSTRUCTION SITE, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL SITE STABILIZATION.

**NOTICE OF INTENT (NOI)**

A "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (NOI) IS REQUIRED FOR THIS SITE SINCE THE PROJECT AREA IS MORE THAN ONE ACRE IN SIZE.

**STORMWATER POLLUTION PREVENTION PLAN**



**CRAIG A. SCHNEIDER, AIA**  
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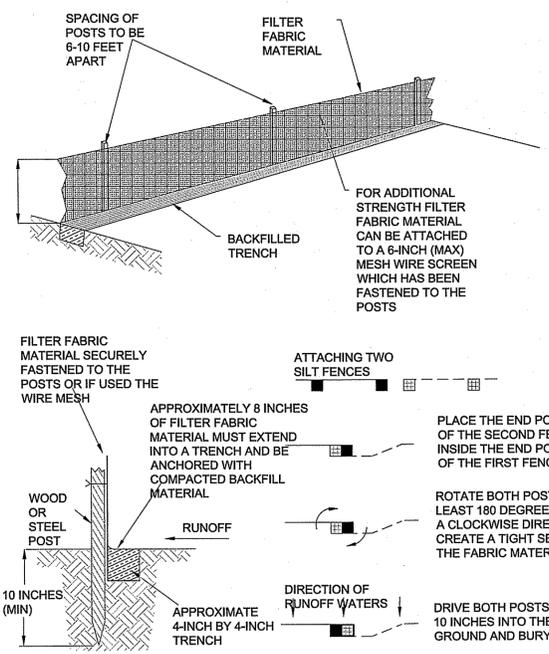
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REVISION DATE: 05-19-15

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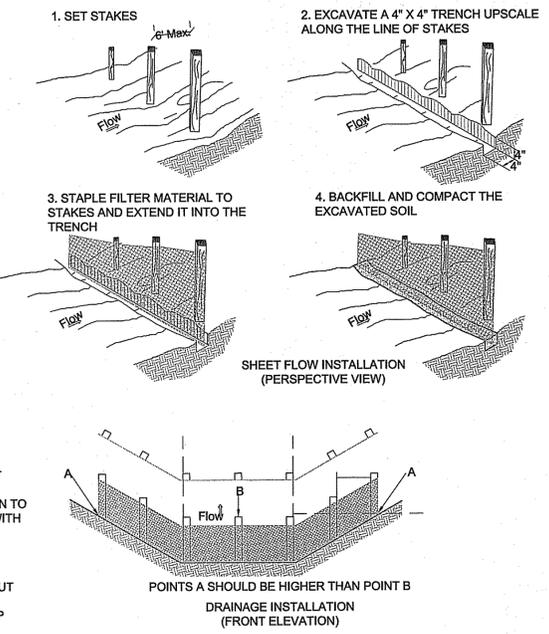


**EROSION AND SEDIMENTATION CONTROL NOTES**

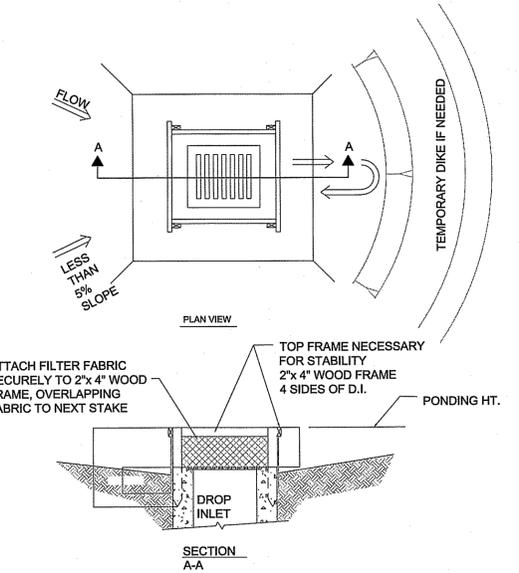
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS. REFER TO CONSTRUCTION PLANS, DETAILS, SPECIFICATIONS AND APPROVED PERMITS FOR DETAILS. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH SIX INCHES ON AN EROSION DEVICE.
- DURING THE CONSTRUCTION OF DRAINAGE STRUCTURES, AND OTHER STRUCTURES REQUIRING EXCAVATION, THE CONTRACTOR SHALL PLACE APPROVED BARRIERS OR OTHER APPROVED DEVICES AROUND SUCH STRUCTURES TO PREVENT EROSION AND THE MIGRATION OF SEDIMENT TO POINTS OUTSIDE THE CONSTRUCTION AREA. THE APPROVED BARRIERS OR OTHER APPROVED DEVICES SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF F.D.O.T. INDEX NO. 102, FDEP, OR AS DIRECTED BY THE ENGINEER.
- REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION. ALL EROSION CONTROL MEASURES, SAND, SILT, AND DEBRIS SHALL BE REMOVED FROM ALL DRAINAGE PIPES AND STRUCTURES AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO COUNTY FINAL WALK-THROUGH.
- OUTFALL PROTECTION - PROJECT PIPE OR DITCH DISCHARGES INTO OFF-SITE OUTFALLS SHALL BE INSPECTED DAILY FOR POSSIBLE SEDIMENT BUILDUP OR TRANSPORT. OUTFALLS SHALL BE PROTECTED THROUGH USE OF EROSION CONTROL FEATURES AS NECESSARY TO CONTAIN ANY SEDIMENT LOSS TO THE IMMEDIATE AREA OF THE PROJECT. ANY SEDIMENT BUILDUP OR TRANSPORT OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMEDY. THE CONTRACTOR SHALL USE APPROPRIATE MEASURES AS DIRECTED BY THE PROJECT ENGINEER FOR OUTFALL PROTECTION.
- APPROVED BARRIERS (OR OTHER APPROVED SEDIMENT CONTROL DEVICES); THESE SHALL BE PLACED AT THE BASE OF ANY SLOPE WHERE A RAINFALL EVENT COULD ERODE A SLOPE AND TRANSPORT SEDIMENTS OFF-SITE. APPROVED BARRIERS SHALL BE DOUBLE STAKED IN ACCORDANCE WITH F.D.O.T. INDEX NO. 102 OR FDEP. IF EROSION DEPOSITS REACH THE TOP ELEVATION OF EXISTING APPROVED BARRIERS, THEN SEDIMENTS SHOULD BE REMOVED. ANY DAMAGED OR INEFFECTIVE APPROVED BARRIERS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION AND INSTALLATION OF APPROVED BARRIERS SHALL BE AS DIRECTED BY THE PROJECT ENGINEER.
- BACK OF SIDEWALK INLETS OR MEDIAN INLETS; THESE SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AROUND INLET TOP. A SECOND ROW OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE PLACED AROUND INLET APPROXIMATELY 4' OUTSIDE FIRST ROW. BETWEEN ROWS THERE SHALL BE A DEPRESSION TO ACT AS A SEDIMENT BASIN. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH A SINGLE LINE OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES TO PREVENT SEDIMENT INTAKE FROM OTHER AREAS.
- STOCKPILED MATERIALS SHALL BE PROTECTED BY COVER, APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 3 DAYS AFTER 1/2" RAIN EVENT DISTURBANCE.
- SEDIMENT TRAPPING MEASURES: SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, FILTER FENCES, BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT INTO WATERS OF THE STATE OR NEIGHBORING PROPERTIES SHALL BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY.
- A DEWATERING PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO DISCHARGE.
- WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATER FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENTS BASINS, OR AREAS CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
- THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING DITCHES OR CANALS WITHOUT THE USE OF SETTLING PONDS OR DEVICES. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO EXISTING DITCHES OR CANALS A SETTLING PLAN PREPARED BY THE CONTRACTOR MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
- WHERE APPLICABLE, SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED AND MAINTAINED PER F.D.O.T. INDEX NO. 106 OR FDEP.
- THE EROSION CONTROL DEVICE QUANTITIES SHOWN ON THE BID FORMS ARE ESTIMATES OF THE ACTUAL QUANTITIES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SPECIFY ACTUAL QUANTITIES AND COSTS ASSOCIATED WITH THIS SPECIFIC EROSION CONTROL IMPLEMENTATION SCHEDULE. EROSION CONTROL ITEMS MAY BE ADDED OR DELETED FROM THE PAY ITEM LIST AS THE EROSION CONTROL IMPLEMENTATION SCHEDULE PROVIDED BY THE CONTRACTOR IS MODIFIED TO MEET SITE SPECIFIC CONDITIONS.
- ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS. SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCES AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE/BARRIER. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.
- THE CONTRACTOR SHALL NOT RESTRICT OR BLOCK THE EXISTING DRAINAGE FLOW OVERLAND OR WITHIN RESHAPED SWALES. FLOW WITHIN EXISTING DRAINAGE PIPES SHALL BE MAINTAINED AT ALL TIMES. STORMWATER WILL BE CONVEYED VIA EXISTING SWALES, DITCHES, OR PROPOSED DITCHES, EXISTING AND PROPOSED STORM SEWERS.
- DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFF-SITE SEDIMENT TRANSPORT AND TO INSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
- BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. EROSION CONTROL FABRIC SHALL BE USED FOR EROSION PROTECTION WHERE SOIL WILL NOT HOLD OR BECOME ESTABLISHED IN TIME TO PROTECT THE BANKS. UNLESS OTHERWISE SPECIFIED IN THE PLANS, UPON COMPLETION OF CONSTRUCTION, ALL BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE- CONSTRUCTION CONFIGURATION AND PROTECTION FROM EROSION.
- IF APPLICABLE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING POND FILTRATION SYSTEMS FROM BEING CLOGGED UNTIL BREVARD COUNTY DETERMINES THE CONSTRUCTION IS COMPLETE. IF FILTER MATERIAL IS CONTAMINATED, IT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR TO COORDINATE WITH LOCAL MUNICIPALITY REGARDING PREPARATION AND PERMITTING WITHIN THE NPDES PROGRAM.



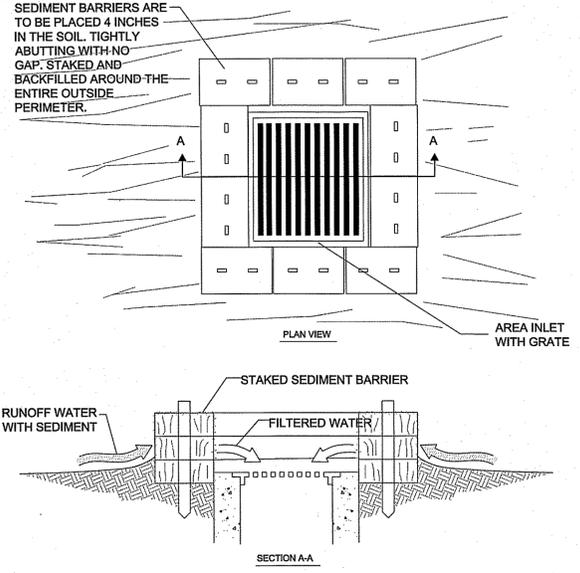
**1**  
C4 SCALE: N.T.S.  
**INSTALLING A FILTER FABRIC SILT FENCE**



**2**  
C4 SCALE: N.T.S.  
**TEMPORARY SYNTHETIC SEDIMENT BARRIER**



**3**  
C4 SCALE: N.T.S.  
**TEMPORARY SEDIMENT BARRIER AT DROP INLET**



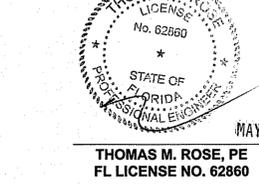
**4**  
C4 SCALE: N.T.S.  
**TEMPORARY SYNTHETIC SEDIMENT BARRIER AT STORM DRAIN DROP INLET**

- NOTES:
- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
  - USE 2"x 4" WOOD OR EQUIVALENT METAL STAKES. (3 FT. MIN. LENGTH)
  - INSTALL 2"x 4" WOOD TOP FRAME TO INSURE STABILITY.
  - 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.

**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IN A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OF OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS STREET OR HIGHWAY MEDIANS.

**EROSION CONTROL DETAILS**



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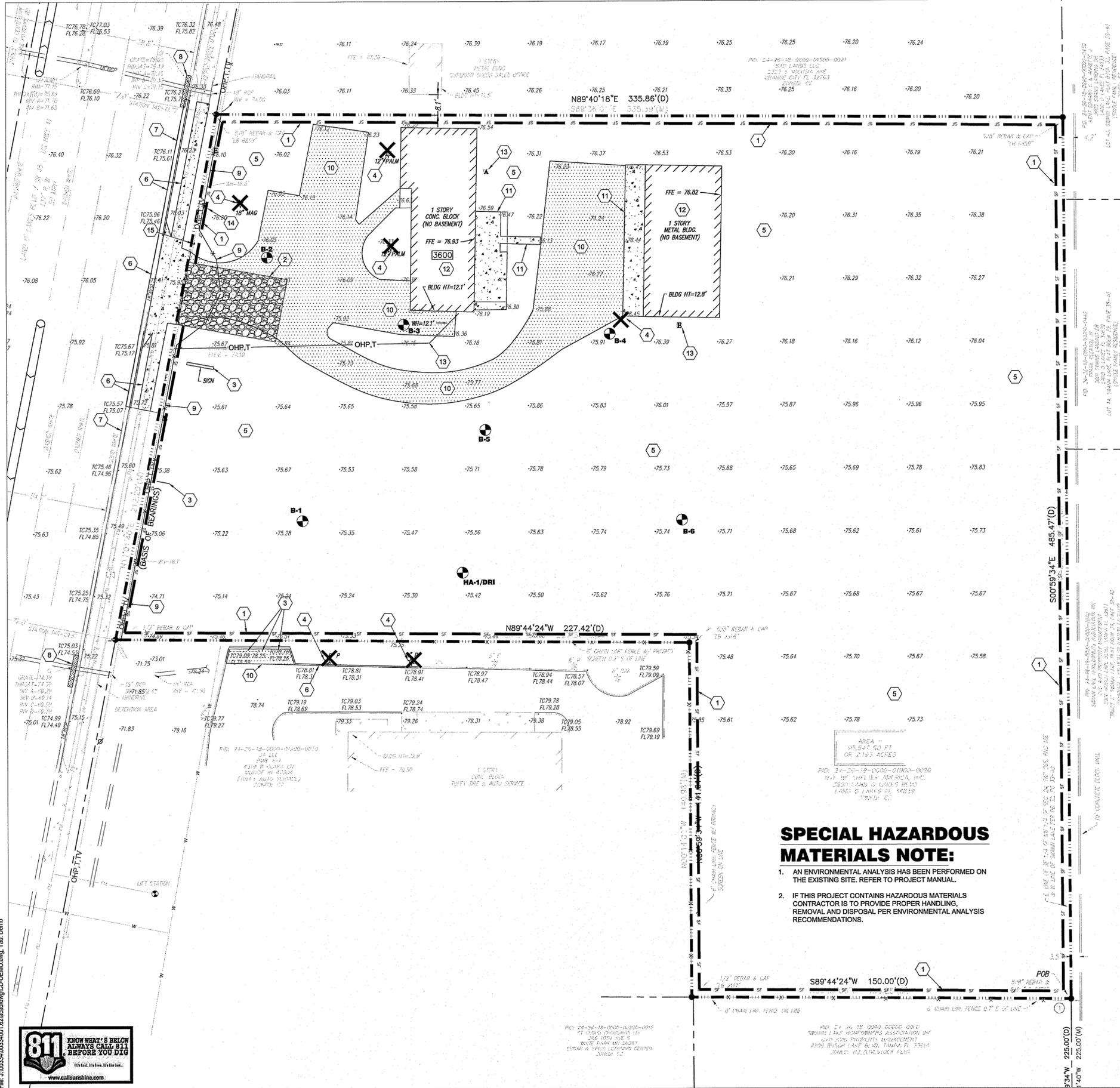
New O'Reilly Auto Parts Store  
3600 LAND O' LAKES BLVD  
LAND O' LAKES, FL  
(LAND O' LAKES #1)

**O'Reilly AUTO PARTS**  
233 SOUTH PATTERSON  
SPRINGFIELD, MISSOURI 65802  
417-862-2874 PHONE

COMM # 3670

DATE: 04-17-15  
REVISION DATE: 05-19-15

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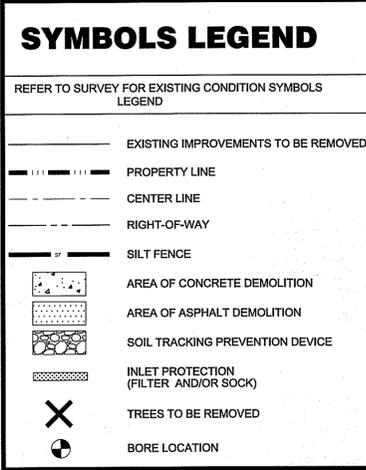
**KEY NOTES:**

- INITIAL SILT FENCE LOCATION: REFER TO DETAIL 1/C4.
- SOIL TRACKING PREVENTION DEVICE: REFER TO DETAIL 1/C2.
- REMOVE EXISTING SIGN: REMOVE SIGN, POSTS, ETC. FULL DEPTH.
- REMOVE LANDSCAPING: REMOVE TREES, HEDGEROW, ETC. (INCLUDING TREE STUMPS)
- LAND CLEARING: CLEAR AND GRUB SITE. \*SURVEY & RESULTING SITE DEMOLITION PLAN DO NOT INDICATE EXTENT OF EXISTING UNDER-STORY TREES, SHRUBS, AND OTHER GROUND COVER TO BE REMOVED FOR THIS PROJECT. CONTRACTOR SHALL BECOME FAMILIAR WITH SITE CONDITIONS PRIOR TO BIDDING ON THIS ITEM.
- REMOVE CURBING, SIDEWALK DRIVEWAY & PAVEMENT: REMOVE EXISTING CURB, SIDEWALK DRIVEWAY AND PAVEMENT, ETC.
- EXISTING STORM SEWER: EXISTING STORM STRUCTURES AND ASSOCIATED PIPE TO REMAIN. CONTRACTOR TO FIELD VERIFY SLOPE AND INVERT ELEVATIONS.
- EROSION PROTECTION AROUND STRUCTURE: INSTALL FILTER FABRIC INSIDE OF GRATE AND SOCK ACROSS INLET THROATS. MAINTAIN THROUGHOUT CONSTRUCTION.
- EXISTING 6" CHAINLINK FENCE
- EXISTING ASPHALT ACCESS PATH: EXISTING ASPHALT ACCESS PATH TO BE REMOVED AND DISPOSED OF OFFSITE.
- EXISTING CONCRETE: EXISTING CONCRETE TO BE REMOVED AND DISPOSED OF OFFSITE.
- EXISTING BUILDING: EXISTING BUILDING AND ASSOCIATED FOUNDATIONS AND STAIRS TO BE REMOVED AND DISPOSED OF OFFSITE.
- EXISTING UTILITIES: EXISTING ELECTRICAL TO BE REMOVED. CONTRACTOR TO REFERENCE MEP PLANS AND COORDINATE WITH ELECTRICAL PROVIDER PRIOR TO REMOVAL. CONTRACTOR TO CUT AND CAP ALL UTILITIES AT PROPERTY LINE.
- EXISTING UTILITIES: CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER TO REMOVE AND RELOCATE EXISTING TELEPHONE STAND.
- EXISTING MAILBOX: TO BE REMOVED.

**GENERAL NOTES:**

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- ANY EXISTING SIDEWALK IN DISREPAIR TO BE SAWCUT, REMOVED, AND REPLACED.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO DEMOLITION AND/OR CONSTRUCTION.
- CONTRACTOR TO CUT, CAP, AND REMOVE ALL EXISTING UTILITIES TO THE PROPERTY LINE NOT TO BE REROUTED AND/OR REUSED (I.E. GAS LINE, ELECTRICAL, POWER POLES, WATER, IRRIGATION, TELECOMMUNICATION, ETC.)
- PRIOR TO INSTALLATION, GENERAL CONTRACTOR TO CONFIRM THAT LIGHT POLES, LANDSCAPING AND UTILITIES DO NOT CONFLICT WITH SIGN LOCATION SHOWN. IF ANY POTENTIAL CONFLICT IS DISCOVERED, GENERAL CONTRACTOR TO CONTACT THE O'REILLY PROJECT ADMINISTRATOR BEFORE PROCEEDING.
- ALL AREAS DISTURBED IN THE RIGHT OF WAY SHALL BE RETURNED TO ORIGINAL CONDITION OR BETTER.
- CONTRACTOR IS TO INSPECT EXISTING STORM STRUCTURE, BOX, AND PIPING IN FDOT ROW WITHIN THE VICINITY OF THE SITE FOR ANY DAMAGE PRIOR TO DEMOLITION AND CONSTRUCTION. IF THE STRUCTURAL INTEGRITY OF THE STORM SYSTEM HAS BEEN COMPROMISED, THE CONTRACTOR IS TO CONTACT FDOT BROOKSVILLE MAINTENANCE YARD IMMEDIATELY. IF DAMAGE IS DISCOVERED AFTER COMMENCEMENT OF DEMOLITION OR CONSTRUCTION, THE CONTRACTOR MAY BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF THE STORM SYSTEM.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH FRITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON THE SITE.
- ANY STORAGE AREAS INCLUDING "TEMPORARY" STORAGE, MODULAR UNITS, TRACTOR-TRAILERS, POOLS, COLLECTION BINS, OR THE LIKE ARE REQUIRED TO BE SCREENED. IF THERE IS A POSSIBILITY SUCH UNITS WILL BE USED IN THE FUTURE, THERE MUST BE AN AREA DESIGNATED FOR THEM ON THE SITE PLAN. SUCH UNITS CANNOT BE PLACED ON DESIGNATED PARKING SPACES, DRIVE AISLE AREAS, OPEN SPACE OR SIMILAR REQUIRED AREAS. THIRTY DAYS OR LONGER USE OF STORAGE AREAS REQUIRES A BUILDING PERMIT.
- PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PC STORMWATER MANAGEMENT AT (727) 834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.
- EXISTING LAND USE: COMMERCIAL
13. SITE AREA (EXISTING):
 

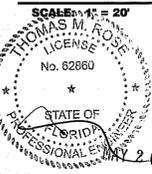
PAVING AND CONCRETE	8,857 SF (9.27%)
BUILDING AREA	3,783 SF (3.96%)
CONCRETE BUILDING	1,957 SF
METAL BUILDING	1,826 SF
TOTAL IMPERVIOUS AREA	12,640 SF (13.23%)
PERVIOUS AREA	82,907 SF (86.77%)
GROSS SITE AREA	95,547 SF (100%)



**SPECIAL HAZARDOUS MATERIALS NOTE:**

- AN ENVIRONMENTAL ANALYSIS HAS BEEN PERFORMED ON THE EXISTING SITE. REFER TO PROJECT MANUAL.
- IF THIS PROJECT CONTAINS HAZARDOUS MATERIALS CONTRACTOR IS TO PROVIDE PROPER HANDLING, REMOVAL AND DISPOSAL PER ENVIRONMENTAL ANALYSIS RECOMMENDATIONS.

**SITE DEMOLITION PLAN**



THOMAS M. ROSE, PE  
FL LICENSE NO. 62860



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**Craig A. Schneider, AIA**  
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Fax: 417.862.3265  
e-mail: architect@esterlyschneider.com

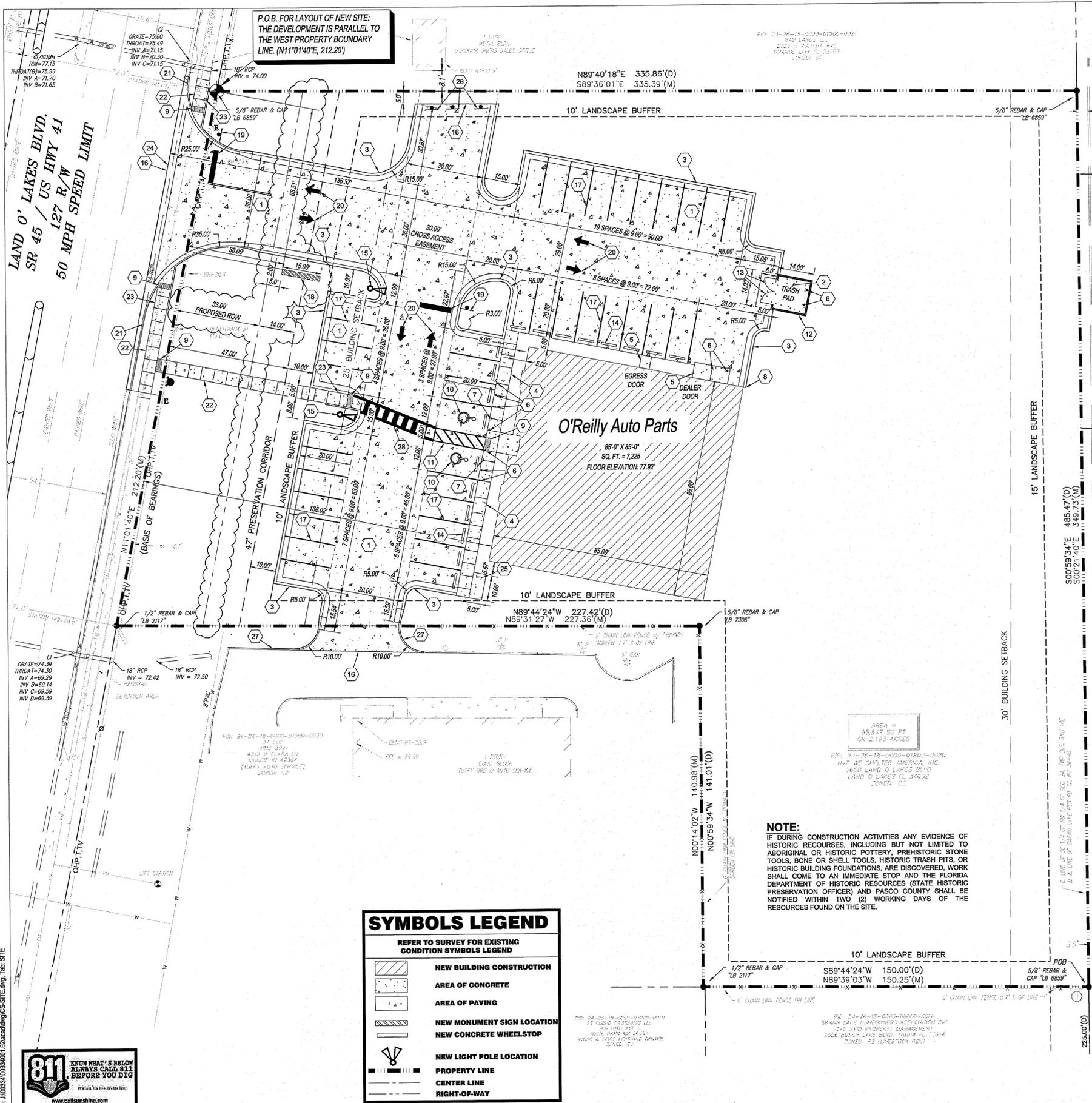
New, O'Reilly Auto Parts Store:  
3600 LAND O' LAKES BLVD  
LAND O' LAKES, FL  
(LAND O' LAKES #1)

**O'Reilly AUTO PARTS**  
233 SOUTH PATTERSON  
SPRINGFIELD, MISSOURI 65802  
417-862-2874 PHONE

COMM # 3670

DATE: 04-17-15  
REVISION  
DATE: 05-19-15





P.O.B. FOR LAYOUT OF NEW SITE:  
THE DEVELOPMENT IS PARALLEL TO  
THE WEST PROPERTY BOUNDARY  
LINE. (N11°01'40"E, 212.20')

N89°40'18"E 335.86'(D)  
S89°36'01"E 335.39'(M)

O'Reilly Auto Parts  
85'0" X 85'0"  
SQ. FT. = 7,225  
FLOOR ELEVATION: 77.92'

N89°44'24"W 227.42'(D)  
N89°31'27"W 227.36'(M)

N00°14'02"W 140.98'(M)  
N00°59'34"W 141.01'(D)

**NOTE:**  
IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF  
HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO  
ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE  
TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR  
HISTORIC BUILDING FOUNDATIONS, ARE DISCOVERED, WORK  
SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA  
DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC  
PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE  
NOTIFIED WITHIN TWO (2) WORKING DAYS OF THE  
RESOURCES FOUND ON THE SITE.

SYMBOLS LEGEND	
REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	NEW BUILDING CONSTRUCTION
	AREA OF CONCRETE
	AREA OF PAVING
	NEW MONUMENT SIGN LOCATION
	NEW CONCRETE WHEELSTOP
	NEW LIGHT POLE LOCATION
	PROPERTY LINE
	CENTER LINE
	RIGHT-OF-WAY

**KEY NOTES:**

- CONCRETE PAVING:  
REFER TO DETAILS 2/C9 & 6/C9.
- CONCRETE DUMPSTER PAD:  
REFER TO DETAIL 2/C9.
- CONCRETE CURB:  
REFER TO DETAIL 13/C9.
- CONCRETE SIDEWALK:  
REFER TO DETAILS 5/C9, 10/C9.
- CONCRETE DOOR LANDING:  
REFER TO DETAIL AND STRUCTURAL DETAILS.  
RAMP PAVING AS INDICATED. LANDING CAN BE  
POURED MONOLITHIC IF CONCRETE PAVING IS  
USED.
- STEEL BOLLARD:  
REFER TO DETAIL 12/C9. PROVIDE (2) AT TRASH  
PAD, (9) AT ENTRANCE, AND (2) AT DEALER DOOR.  
REFER TO STRUCTURAL PLAN FOR LOCATIONS.
- HANDICAP PARKING SIGN:  
REFER TO DETAIL 8/C9.
- ROLL DOWN CURB:  
TERMINATE AND ROLL DOWN NEW CURB WHERE  
INDICATED. ROLL DOWN AT 1:2.
- TRUNCATED DOMES:  
INSTALL TRUNCATED DOMES PER FDOT INDEX  
304.
- HANDICAP PARKING SYMBOL:  
REFER TO DETAIL 4/C9.
- HANDICAP ACCESS UNLOADING ZONE:  
SLOPE 2% MAX. EACH WAY AND STRIPE ADA  
COMPLIANT.
- DUMPSTER ENCLOSURE:  
PER DETAILS 1/C10 & 2/C10.  
REFER TO STRUCTURAL PLANS FOR DETAILS.
- SCREEN FENCE GATE:  
REFER TO DETAIL 1/C10.
- CONCRETE WHEEL STOP:  
TO SIT LEVEL WITH PAVING.  
REFER TO DETAIL 7/C9.
- PARKING LOT LIGHTING:  
REFER TO SITE ELECTRICAL PLAN FOR LOCATION  
AND TYPE.
- LIMITS OF NEW PAVING:  
MATCH EXISTING PER COUNTY AND OR STATE  
STANDARDS.
- STRIPING:  
PROVIDE 4" WIDE PARKING LOT STRIPING AS  
SHOWN. USE HIGHWAY MARKING PAINT - WHITE  
(2 COATS.)
- SIGN LOCATION:  
SIGN FURNISHED AND INSTALLED BY OWNER.  
REFER TO STRUCTURAL & ELECTRICAL PLAN FOR  
DETAILS.
- STOP SIGN AND PAVEMENT MARKING:  
SEE FDOT INDEX 17346 SIGN R1-1.  
DOUBLE 25" LONG 4" WIDE YELLOW STRIPING  
24" WIDE STOP BAR
- DIRECTIONAL ARROW/STRIPING:  
REFER TO DETAIL 3/C9.
- CONCRETE CURB:  
INSTALL FDOT "F" CURB PER FDOT INDEX 300.
- CONCRETE SIDEWALK:  
INSTALL CONCRETE SIDEWALK PER FDOT INDEX  
310. CONTRACTOR TO CONNECT TO EXISTING  
SIDEWALK.
- SIDEWALK CURB RAMP (CR-F):  
PER FDOT INDEX 304.
- CONCRETE ENTRANCE:  
INSTALL ENTRANCE IN ACCORDANCE WITH FDOT  
INDEX 515 AND 3" VALLEY GUTTER PER FDOT  
INDEX 304.
- BIKE RACK  
5 SPACE (GSA 1116-1002 OR APPROVED EQUAL)
- "3 DOT" SIGN:  
(SEE FDOT INDEX 17346)
- CONCRETE CURB:  
INSTALL FDOT "D" CURB PER FDOT INDEX 300.
- CROSSWALK PAVEMENT MARKING:  
(SEE FDOT INDEX 17346)  
SLOPE 2% MAX. EACH WAY AND STRIPE ADA  
COMPLIANT.

**SITE DATA TABLE:**

1. SITE ADDRESS:	3600 LAND O' LAKES BOULEVARD
2. P.I.D. No.:	24-26-18-0000-01900-0020
3. GROSS SITE AREA:	95,547 SF (2.193 AC)
4. EXISTING LAND USE: FUTURE LAND USE:	GENERAL COMMERCIAL (C2) GENERAL COMMERCIAL (C2)
5. BUILDING SETBACKS REQUIRED FRONT - 25 FT SIDE - 0 FT REAR - 30 FT	LANDSCAPE BUFFERS REQUIRED FRONT - 15 FT* SIDE - 10 FT REAR - 10 FT *REDUCTION TO 10' FEET ALLOWED DUE TO PRESERVATION CORRIDOR
6. SITE AREA (EXISTING):	
PAVING AND CONCRETE	8,957 SF (9.27%)
BUILDING AREA	3,783 SF (3.96%)
CONCRETE BUILDING	1,957 SF
METAL BUILDING	1,826 SF
TOTAL IMPERVIOUS AREA	12,640 SF (13.23%)
PERVIOUS AREA	82,907 SF (86.77%)
GROSS SITE AREA	95,547 SF (100%)
7. SITE AREA (PROPOSED):	
PAVING AND CURB	20,808 SF (21.78%)
BUILDING AREA	7,225 SF (7.56%)
CONCRETE	1,378 SF (1.44%)
TOTAL IMPERVIOUS AREA	29,412 SF (30.78%)
PERVIOUS AREA	53,214 SF (55.69%)
POND	12,922 SF (13.52%)
GROSS SITE AREA	95,547 SF (100%)
FLOOR AREA RATIO	7,225/95,547 = 0.0756 (7.56%)
8. PARKING REQUIREMENTS:	
1 STALLS PER 300 SF OF GROSS FLOOR AREA	24 SPACES
PARKING SPACES REQUIRED:	37 SPACES
PARKING SPACES PROVIDED:	37 SPACES
REGULAR PARKING	2 SPACES
HANDICAP	38 SPACES
TOTAL PARKING SPACES PROVIDED	
9. FLOOD ZONE:	
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS (FIRM), COMMUNITY PLAN NO. 120230 0404F EFFECTIVE DATE: SEPTEMBER 26, 2014, THE SUBJECT PROPERTY IS LOCATED WITHIN ZONE "X"; AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.	
10. THERE ARE NO ENVIRONMENTALLY SENSITIVE AREAS ON THIS SITE.	
11. GROUNDWATER WAS FOUND APPROXIMATELY 3-1/2 FT BELOW EXISTING GROUND ELEVATION.	
12. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH ALL APPLICABLE PASCO COUNTY REQUIREMENTS.	
13. BUILDING HEIGHT:	19 FT 0 IN
14. FLORIDA FIRE PREVENTION 5TH EDITION	
15. NO MEZZANINE	
16. WATER & SANITARY SEWER AUTHORITY: PASCO COUNTY UTILITIES ADDRESS: 7530 LITTLE ROAD, SUITE 205 NEW PORT RICHEY, FL 34654 PHONE #: 727-847-8145	
17. TELEPHONE AUTHORITY: VERIZON FLORIDA INC ADDRESS: 1909 U.S. HWY 301 N TAMPA, FL 33619 PHONE#: 813-627-6343	
18. POWER AUTHORITY: DUKE ENERGY ADDRESS: 452 E. CROWN POINTE ROAD WINTER GARDEN, FL 33837 PHONE #: 407-905-3321	

**GENERAL NOTES:**

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- ALL SITE DIMENSIONS TO THE GUTTER LINE OF CURB, CONCRETE OR  
PROPERTY LINE UNLESS OTHERWISE NOTED. CONTRACTOR TO  
FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION  
PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT  
DRAWINGS.
- REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS  
ADJACENT TO FOUNDATIONS.
- ANY EXISTING SIDEWALK IN DISREPAIR TO BE REPLACED.
- CONTRACTOR TO REPAIR / REPLACE DAMAGED SIDEWALK PER  
DETAIL 10/C9.
- SITE IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH  
PASCO COUNTY AND O'REILLY CONSTRUCTION SPECIFICATIONS.
- FRONT TO INSTALLATION, GENERAL CONTRACTOR TO CONFIRM THAT  
LIGHT POLES, LANDSCAPING AND UTILITIES DO NOT CONFLICT WITH  
SIGN LOCATION SHOWN. IF ANY POTENTIAL CONFLICT IS  
DISCOVERED, GENERAL CONTRACTOR TO CONTACT THE O'REILLY  
PROJECT ADMINISTRATOR BEFORE PROCEEDING.
- ALL RADII EQUAL, 5-FT UNLESS NOTED OTHERWISE.
- DELIVERIES ARE MANAGED BY O'REILLY AND WILL OCCUR AFTER  
BUSINESS HOURS.
- ANY LIGHTING USED TO ILLUMINATE ANY PARKING AREA SHALL BE  
SO ARRANGED AS TO DIRECT AND/OR SHIELD LIGHT AWAY FROM  
ADJOINING RESIDENTIAL PREMISES AND RIGHT-OF-WAY.
- DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE  
PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR  
ANIMAL SPECIES IS DISCOVERED, WORK SHALL COME TO AN  
IMMEDIATE STOP AND PASCO COUNTY SHALL BE NOTIFIED WITHIN  
TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES  
FOUND ON THE SITE.
- ALL DISTURBED AREAS IN THE FDOT ROW TO BE SODDED.
- THERE ARE NO ANTICIPATED STORAGE AREAS.

**SITE DEVELOPMENT PLAN**

SCALE: 1" = 20'



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e-mail: architect@esteryschneider.com

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COMM # 3670

DATE: 04-17-15  
REVISION  
DATE: 05-19-15



**GENERAL NOTES:**

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. ALL SITE DIMENSIONS TO THE GUTTER LINE OF CURB, CONCRETE OR PROPERTY LINE UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
- C. CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING PAVEMENT AT DRIVEWAY ENTRANCES. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.
- D. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- E. REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.
- F. SITE IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH PASCO COUNTY AND O'REILLY CONSTRUCTION SPECIFICATIONS.
- G. PRIOR TO INSTALLATION, GENERAL CONTRACTOR TO CONFIRM THAT LIGHT POLES, LANDSCAPING AND UTILITIES DO NOT CONFLICT WITH SIGN LOCATION SHOWN. IF ANY POTENTIAL CONFLICT IS DISCOVERED, GENERAL CONTRACTOR TO CONTACT THE O'REILLY PROJECT ADMINISTRATOR BEFORE PROCEEDING.
- H. CONTRACTOR TO INSTALL CHEMICAL ROOT BARRIER 24 INCHES DEEP AROUND EDGE OF LANDSCAPE ISLAND TO PROTECT STORM WATER PIPES FROM TREE ROOTS OF ADJACENT CANOPY TREE.

**KEY NOTES:**

- 1 STORM STRUCTURE ST-1  
FOOT DITCH BOTTOM INLET TYPE 'F'  
FOOT INDEX NO. 233  
TOP GRATE ELEV = 76.80'  
INV ELEV (N) = 72.50'
- 2 STORM WATER PIPING  
135 LF 15" DIAMETER A-2000 OR EQUIVALENT AT 0.05%
- 3 STORM STRUCTURE ST-2  
FOOT DITCH BOTTOM INLET TYPE 'F'  
FOOT INDEX NO. 233  
TOP GRATE ELEV = 76.50'  
15" INV ELEV (S) = 71.70'  
15" INV ELEV (E) = 71.60'
- 4 STORM WATER PIPING  
109 LF 15" DIAMETER A-2000 OR EQUIVALENT AT 0.05%
- 5 STORM STRUCTURE ST-3  
FOOT DITCH BOTTOM INLET TYPE 'F'  
FOOT INDEX NO. 233  
TOP GRATE ELEV = 76.90'  
15" INV ELEV (W) = 71.30'  
15" INV ELEV (SE) = 71.20'
- 6 STORM WATER PIPING  
60 LF 15" DIAMETER A-2000 OR EQUIVALENT AT 0.05%
- 7 STORM STRUCTURE ST-4  
FOOT DITCH BOTTOM INLET TYPE 'C'  
FOOT INDEX NO. 232  
TOP GRATE ELEV = 73.10'  
15" INV ELEV (NW) = 69.80'
- 8 STORM WATER OUTFALL  
STORM WATER OVERFLOW WEIR  
SEE DETAIL 7/C12  
OVERFLOW = 75.80'

**STORMWATER SUMMARY:**

TOTAL PROPERTY AREA = 2.193 ACRES  
STORMWATER BASIN AREA = 1.14 ACRES

1) ON-SITE AREAS OF RUNOFF COEFFICIENTS:  
PRE-DEVELOPMENT  
TREATMENT VOLUME = NONE  
CURVE NUMBER = 54  
DRAINAGE BASIN = 2.193 ACRES

POST-DEVELOPMENT  
PROPOSED TREATMENT VOLUME = 6,171 CF  
METHOD OF TREATMENT = ON-SITE DRY RETENTION SYSTEM  
CURVE NUMBER = 89  
DRAINAGE BASIN = 2.193 ACRES

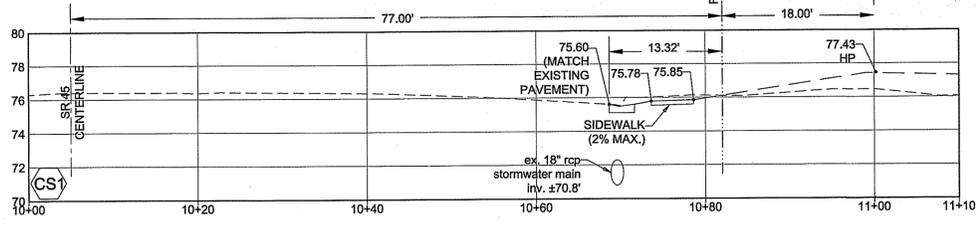
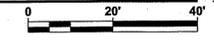
**SYMBOLS LEGEND**

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND

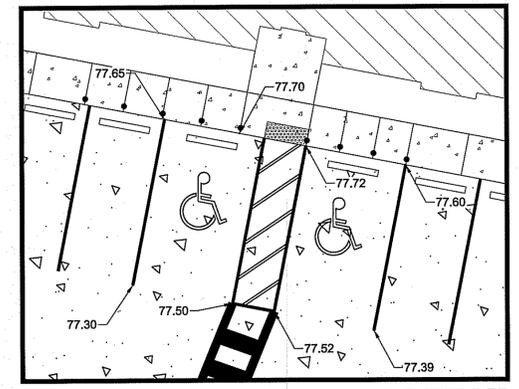
	NEW BUILDING CONSTRUCTION
	AREA OF CONCRETE
	AREA OF PAVING
	NEW MONUMENT SIGN LOCATION
	NEW CONCRETE WHEELSTOP
	NEW LIGHT POLE LOCATION
	PROPERTY LINE
	CENTER LINE
	RIGHT-OF-WAY
	HIGH POINT
	PAVING ELEVATION

**SITE GRADING PLAN**

SCALE: 1" = 20'



SECTION AA AT CENTERLINE OF DRIVEWAY  
SCALE: 1"=10'  
\* THIS DISTANCE IS ALONG THE DRIVEWAY CENTERLINE IN ACCORDANCE WITH FDOT:  
• INDEX No. 300  
• INDEX No. 515



**HANDICAP ACCESSIBILITY DETAIL**

SCALE: 1"=10'

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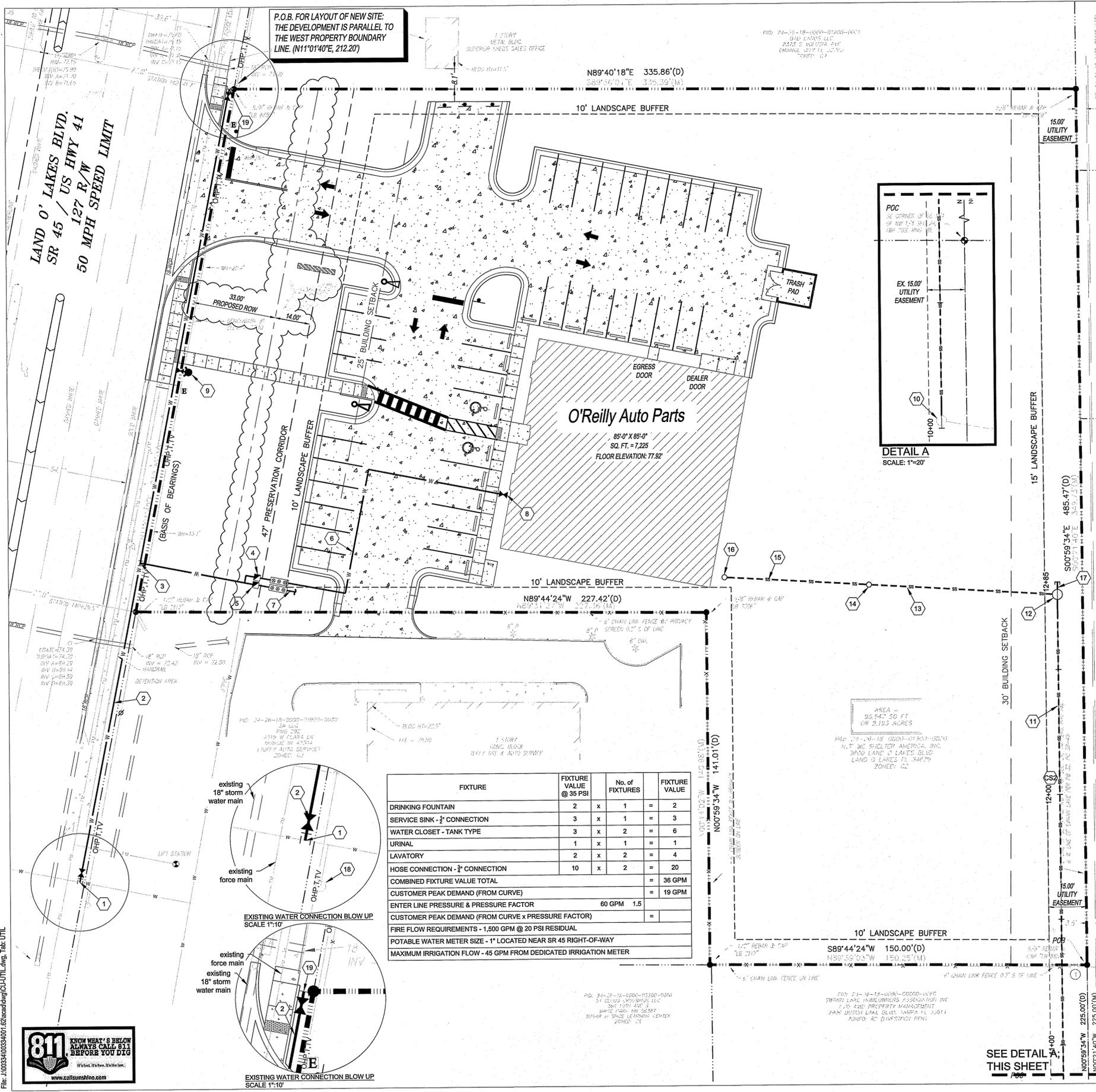
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REVISION  
DATE: 05-19-15





**KEY NOTES:**

1. WATER LINE WET TAP AND VALVE 8" X 8" WET TAP AND VALVE PER PASCO COUNTY; REFER TO DETAIL 5/C12.
2. WATER MAIN FURNISH AND INSTALL 3322 LF 8" HDPE WITH RESTRAINT JOINTS ENTIRE PIPE LENGTH
3. WATER LINE CONNECTION 8"X2" WET TAP AND VALVE PER PASCO COUNTY; REFER TO DETAIL 5/C12.
4. POTABLE WATER SERVICE INSTALLATION INSTALL TEMPORARY SERVICE JUMPER PER PASCO COUNTY STANDARD DETAIL; REFER TO DETAIL 3/C22 FURNISH AND INSTALL 1" REDUCER AND METER PER PASCO COUNTY STANDARD DETAIL; REFER TO DETAIL 1/C12.
5. IRRIGATION SERVICE INSTALLATION INSTALL 1.5" METER BACKFLOW PER PASCO COUNTY STANDARD DETAIL; REFER TO DETAIL 1/C12.
6. POTABLE WATER LINE FURNISH AND INSTALL 1" POLYETHYLENE WATER SERVICE TUBING.
7. IRRIGATION LINE FURNISH AND INSTALL 1" PVC SCHEDULE 80. SEE IRRIGATION PLAN FOR CONTINUATION.
8. WATER LINE SERVICE FURNISH AND INSTALL 1" GATE VALVE & BOX PER PASCO COUNTY STANDARD DETAIL; REFER TO DETAIL 6/C12. COORDINATE BUILDING CONNECTION WITH MEP PLANS.
9. FIRE HYDRANT ASSEMBLY FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY PER PASCO COUNTY; REFER TO DETAIL 6/C12.
10. SANITARY SEWER MANHOLE (EXISTING BY OTHERS) Remove existing plug and connect to existing manhole. Inv El = 70.12' \*CONTRACTOR TO FIELD VERIFY RIM AND INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH THESE PLANS.
11. SANITARY SEWER LINE FURNISH AND INSTALL 275 LF OF 8" PVC SDR-26 AT 0.40% MIN
12. SANITARY SEWER MANHOLE INSTALL MANHOLE PER PASCO COUNTY; RIM EL = 75.00' (FLUSH W/ FINAL FINISH GRADE) INV. EL = 71.22' (S) INV. EL = 72.00' (E) INV. EL = 71.32' (N)
13. SANITARY SEWER LINE FURNISH AND INSTALL 75 LF OF 6" PVC SDR-26 AT 1.65%
14. SANITARY SEWER CLEANOUT INSTALL 6" CLEANOUT PER PASCO COUNTY; REFER TO DETAIL 4/C12. RIM EL = 76.00' INV EL = 73.25'
15. SANITARY SEWER LINE FURNISH AND INSTALL 58 LF OF 6" PVC SDR-26 AT 1.65%
16. SANITARY SEWER CLEANOUT INSTALL 6" CLEANOUT PER PASCO COUNTY; REFER TO DETAIL 4/C12. INV EL = 74.25'. COORDINATE BUILDING CONNECTION W/ MEP PLAN
17. SANITARY SEWER LINE FURNISH, INSTALL AND CAP 5 LF OF 8" PVC SDR-26 0.40% MIN
18. existing fire hydrant assembly to remain
19. VALVE AND CAP FURNISH, INSTALL AND 8" GATE VALVE CAP PER PASCO COUNTY SPECIFICATIONS

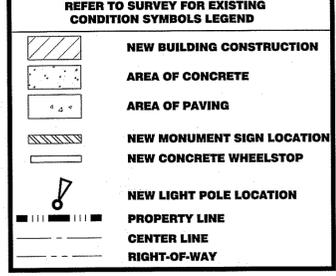
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- G. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO BUILDING CONSTRUCTION. UTILITY ADJUSTMENTS MAY BE REQUIRED TO LOCATE EXISTING SERVICES BEYOND BUILDING FOUNDATION.
- H. FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.
- I. ALL UTILITY SYSTEM-DESIGN MATERIALS AND WORKMANSHIP SHALL COMPLY WITH STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER AND RECLAIMED WATER FACILITIES SPECIFICATIONS, LATEST EDITION.
- J. CONNECTIONS INTO AN EXISTING COUNTY-OWNED SHALL BE VIA WET TAP. WET TAPS SHALL BE PERFORMED EXCLUSIVELY BY THE UTILITIES SERVICES BRANCH AT THE DEVELOPER'S EXPENSE. EXCAVATION, BACKFILL, AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MATERIAL FOR WET TAPS LARGER THAN TWO INCHES SHALL BE PROVIDED AND INSTALLED BY THE PROJECT CONTRACTOR.
- K. CONTRACTOR'S RESPONSIBILITIES REGARDING WET TAPS TWO INCHES AND LARGER SHALL BE AS FOLLOWS:
  - 2" ONLY - THIS EXCAVATED TRENCH MUST BE DRY OR THE TRENCH WILL REQUIRE ROCK AND A PUMP TO BE IN PLACE. THE MINIMUM DISTANCE FROM THE FACE OF THE VALVE TO THE WALL OF THE TRENCH IS TO BE SIX FEET.
  - 3" AND LARGER - THE CONTRACTOR WILL SUPPLY A TAPPING SADDLE BEING EPOXY COATED, A TAPPING VALVE WITH MECHANICAL JOINT AND THE EQUIPMENT TO PROVIDE, AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR A DURATION OF THIRTY MINUTES.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER AN EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARD.
  - THE TAPPING VALVE WILL REQUIRE A BLOCKING DEVICE. THIS BLOCKING DEVICE OR MATERIAL WILL BE PLACED UNDER THE VALVE AND REMAIN IN PLACE UNTIL THE TAP MACHINE IS REMOVED AND THE TAP IS COMPLETED.
  - IF THE CONTRACTOR DOES NOT FULFILL HIS RESPONSIBILITIES, AS STATED IN THESE NOTES, PRIOR TO THE ARRIVAL OF PASCO COUNTY UTILITIES OPERATIONS AND MAINTENANCE TAPPING CREW, THERE WILL BE AN ADDITIONAL CHARGE OF \$95.00.
- L. THE UTILITY SERVICES BRANCH SHALL NOT OWN OR MAINTAIN ON-SITE WATERLINES, SEWER LINES, OR FACILITIES, UNLESS OTHERWISE APPROVED BY THE UTILITIES SERVICES BRANCH.
- M. FLORIDA FIRE PREVENTION 5TH EDITION

**STANDARD FIRE PROTECTION NOTES:**

1. ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51
2. FIRE HYDRANTS MUST BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
3. PER NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 1; 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
4. PER NFPA-1, 18.3.4.1: CLEARANCES OF 7 1/2 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4 FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
5. GATED ENTRIES REQUIRE A SIGN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

**SYMBOLS LEGEND**



**SITE UTILITY PLAN**



THOMAS M. ROSE, PE  
FL LICENSE NO. 62560



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DATE: 04-17-15  
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DATE: 05-19-16



GATE FRAME: 1 1/2" x 1 1/2" x 1/8" STEEL TUBE OR 2" x 2" x 1/8" ANGLE W/ WELDED JOINTS. PAINT SHERWIN WILLIAMS "HUNT CLUB" SW6468 (SEMI-GLOSS).

ATTACH HORIZ. 2 x 4 TREATED CENTERED ON STL. TUBEING, @ TOP & BOTTOM W/ 4" x 1/4" GALV. CARRIAGE BOLTS ON OUTSIDE TO RECEIVE FENCE FACE BOARD.

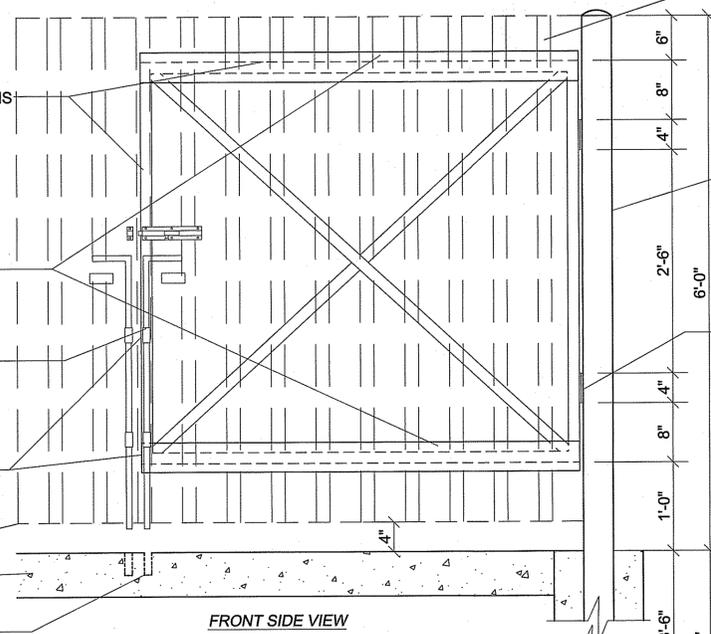
3/4" BENT STL. BAR (BOTH DOORS)

(2) 1" I.D. x 2" LONG STL. PIPE WELDED TO FRAME & ALIGNED FOR BENT BAR.

BOTTOM OF FENCING 4" ABOVE GRADE

CONCRETE PAD

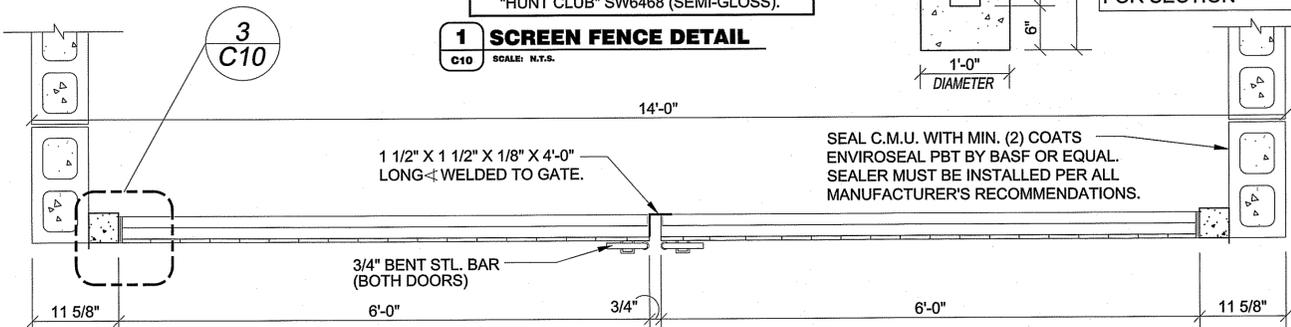
1" HOLE IN PAV'T W/ MTL. SLEEVE TO RECEIVE STL. BAR (3" DEPTH MIN.)



NOTE: ALL MTL. PARTS PRIMED W/ METAL PRIMER & PAINTED TO SHERWIN WILLIAMS "HUNT CLUB" SW6468 (SEMI-GLOSS).

**1 SCREEN FENCE DETAIL**  
C10 SCALE: N.T.S.

REFER TO STRUCTURAL FOR SECTION

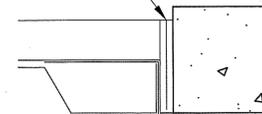


SINGLE 3'-0" GATE AT HVAC ENCLOSURE

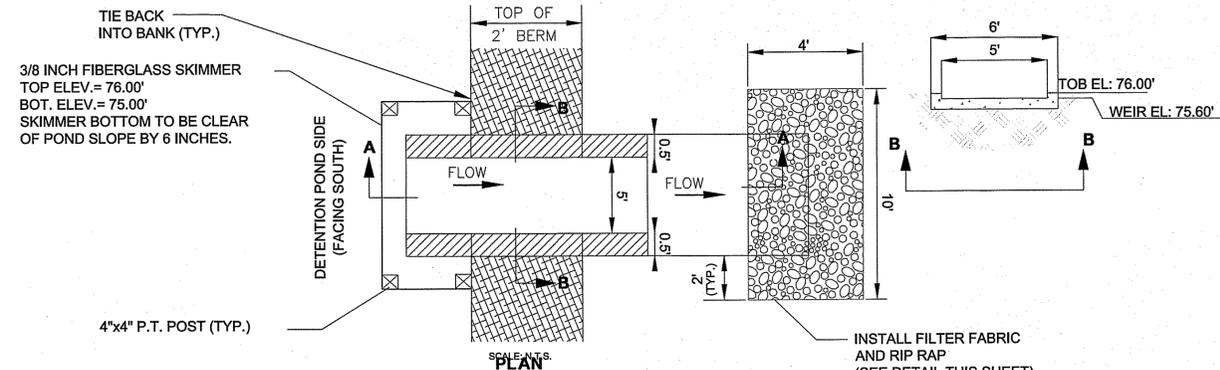
**2 DETAIL SECTION**  
C10 SCALE: N.T.S.

SEAL C.M.U. WITH MIN. (2) COATS ENVIROSEAL PBT BY BASF OR EQUAL. SEALER MUST BE INSTALLED PER ALL MANUFACTURER'S RECOMMENDATIONS.

6" HINGE: TYP. (2) STANLEY BB855 PHOSPHATE WITH NO HOLES ON ONE SIDE FOR WELDING TO STEEL PIPE.



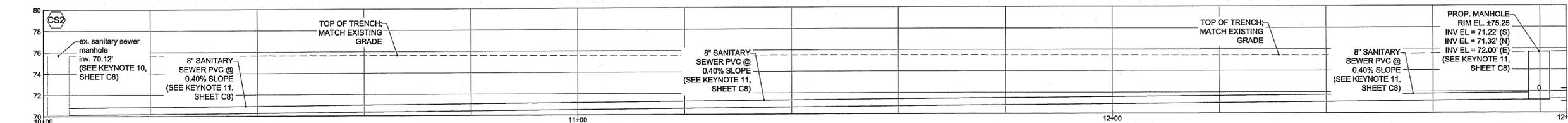
**3 GATE DETAIL**  
C10 SCALE: N.T.S.



3/8 INCH FIBERGLASS SKIMMER TOP ELEV.=76.00' BOT. ELEV.=75.00' SKIMMER BOTTOM TO BE CLEAR OF POND SLOPE BY 6 INCHES.

4"x4" P.T. POST WITH FIBERGLASS SKIMMER ATTACHED USING STAINLESS STEEL BOLTS, NUTS, AND WASHERS (TYP.)

**4 CONCRETE OVERFLOW WEIR WITH SKIMMER**  
C10 SCALE: N.T.S.



**CONSTRUCTION DETAILS 1**



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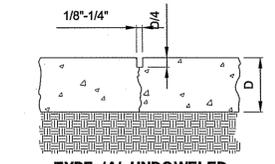
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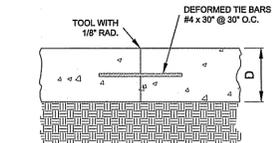
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REVISION  
DATE: 05-19-15

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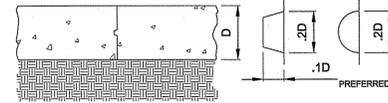
**TYPE 'A' UNDOWELED CONTRACTION (CONTROL) JOINT**  
NTS

UNDOWELED TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT. SAWED OR PRE-MOLDED. DO NOT DOWEL PAVEMENTS LESS THAN 7" THICK.



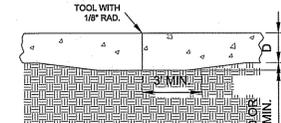
**TYPE 'B' TIED JOINT**  
NTS

TIED LONGITUDINAL CONTRACTION OR CONTRACTION JOINT WHERE REQUIRED. NOTE: DO NOT TIE MORE THAN THREE LANES TOGETHER.



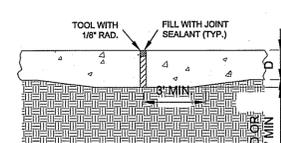
**TYPE 'C' CONSTRUCTION JOINT**  
NTS

LONGITUDINAL KEYWAY CONSTRUCTION JOINT FOR PAVEMENT 8 INCHES OR GREATER. TYPE C-1 STRAIGHT BUTT TYPE JOINT USED FOR PAVEMENTS LESS THAN 8 INCHES.



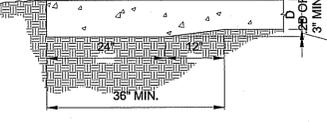
**TYPE 'C-1' BUTT JOINT**  
NTS

IN LIEU OF THICKENING EDGES, OVERALL PAVEMENT THICKNESS MAY BE INCREASED AS FOLLOWS: 6 INCHES OR LESS, ADD 0.5 INCH; MORE THAN 6 INCHES, ADD 1 INCH.

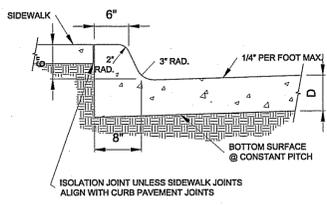


**TYPE 'D' BUTT JOINT**  
NTS

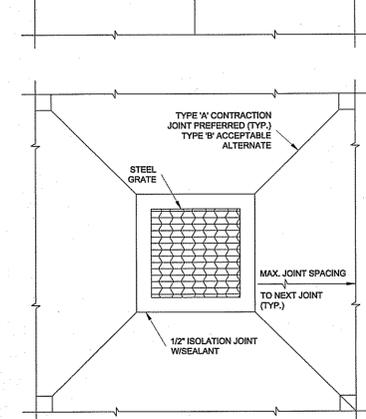
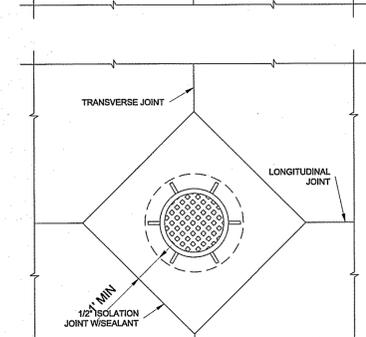
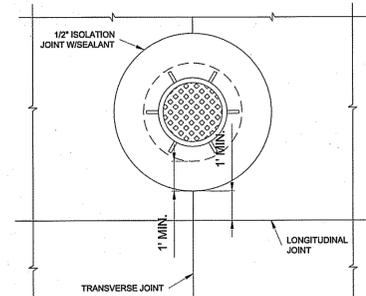
ISOLATION JOINT FOR PAVEMENTS LESS THAN 8" THICK.



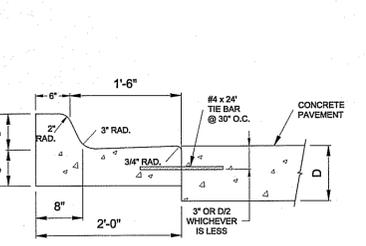
**THICKENED EDGE**  
NTS



**INTEGRAL CURB**  
NTS

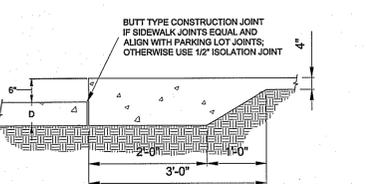


**JOINTS AT MANHOLES**  
NTS

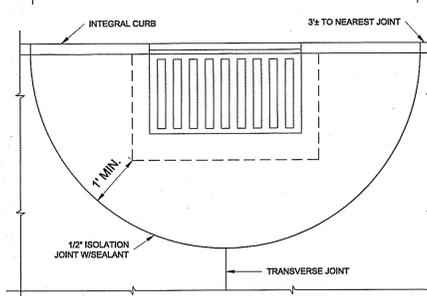
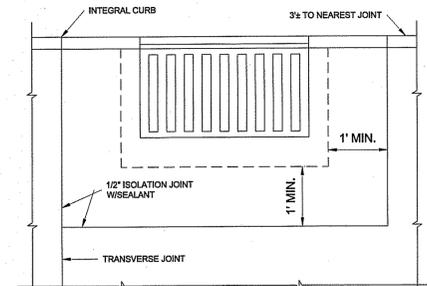


**TIED CURB**  
NTS

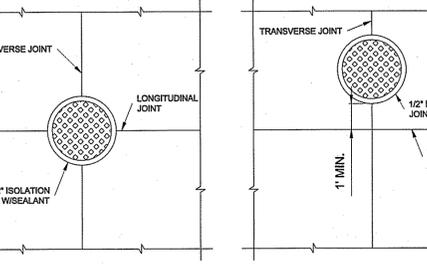
TYPE F, FOOT CURBS SHOWN. OTHER TYPE MAY BE USED WITH THE SAME TIE BAR CONFIGURATION.



**SIDEWALK/CURB**  
NTS



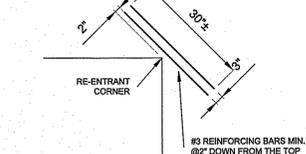
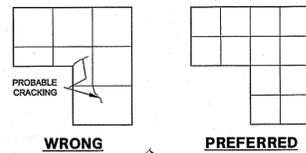
**JOINTS AT INLETS**  
NTS



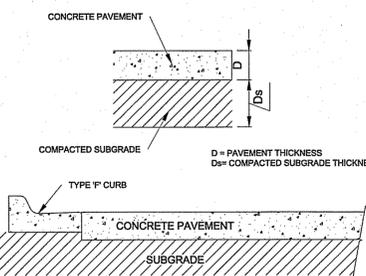
**JOINTS AT MANHOLES**  
NTS

**TYPE JOINT DETAILS**

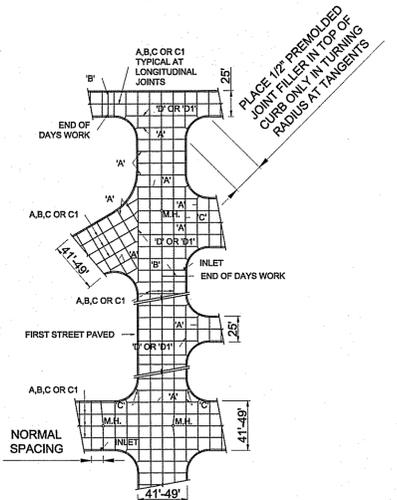
- A DOWELED OR UNDOWELED
- B TIED
- C CONSTRUCTION WITH KEYWAY
- C-1 BUTT
- D ISOLATION
- D-1 ISOLATION WITH DOWEL



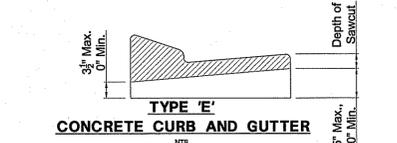
**ACCEPTABLE ALTERNATE**  
NTS



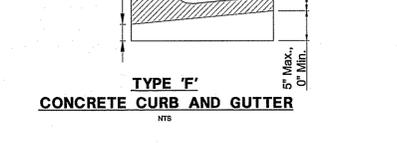
**TYPICAL SECTIONS**  
NTS



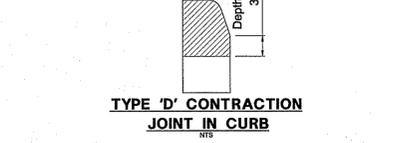
**TYPICAL PAVEMENT JOINT PLAN**  
NTS



**TYPE 'E' CONCRETE CURB AND GUTTER**  
NTS



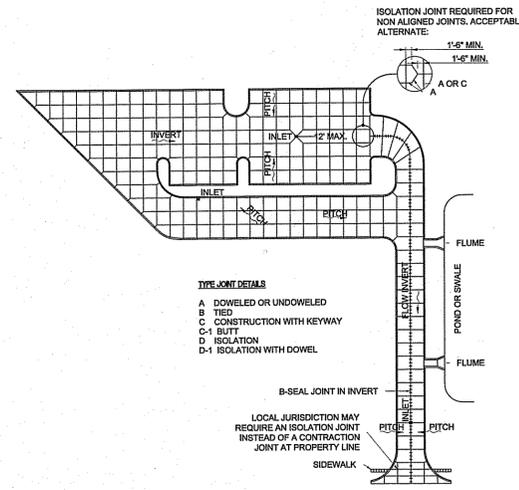
**TYPE 'F' CONCRETE CURB AND GUTTER**  
NTS



**TYPE 'D' CONTRACTION JOINT IN CURB**  
NTS

**CONCRETE STOPPER/BUMPER**  
NTS

RECOMMENDED MAX. JOINT SPACINGS	
PAVEMENT THICKNESS (INCHES)	RECOMMENDED MAXIMUM JOINT SPACING (FEET)
3.5 (FOR WHITE TOPPING ONLY)	6
4.0	10
4.5	10
5.0	12
5.5	12
6.0	15
OVER 6.0	15



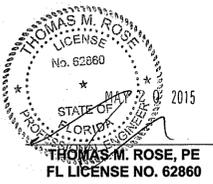
**TYPICAL PARKING AREA JOINT LAYOUT**  
NTS

**GENERAL NOTES:**

1. USE ACI OR FCPSA CERTIFIED FLATWORK FINISHER
2. USE ACI 308R-01 GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS
3. USE ACI 308.1-04 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING LOTS
4. ALL CONCRETE USED IN PARKING LOT, UNLESS OTHERWISE INDICATED, SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
5. PREPARE THE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR RIGID PAVEMENTS. SUBGRADE SOIL DENSITY TESTING MUST BE COMPLETED AND VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
6. IMPORTED SOIL USE FOR BACK FILL SHOULD BE FREE OF HEAVY CLAY, SILTS, STONES, PLANT ROOT OR OTHER FOREIGN MATERIAL GREATER THAN 1/2" IN DIAMETER IN ORDER TO ACHIEVE ADEQUATE COMPACTION AROUND ANY FIXED OBJECT IN GROUND. ALTERNATE WILL BE TO USE FLOWABLE FILL.
7. LAYOUT CONTROL JOINT BY STARTING WITH ANY DRAINAGE INLET WITHIN THE PAVEMENT SECTION AND WORK TOWARD EDGE OF PAVEMENT
8. KEEP ALL JOINTS CONTINUOUS
9. CONTROL JOINTS SHALL BE FORMED OR SAWED WITHIN 18 HOURS FROM TIME OF PLACEMENT:

**CURBS:**

1. ALL CURBING SHALL BE CONSTRUCTED OF CONCRETE THAT WILL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
2. ALL CONCRETE CURBS SHALL BE SPACED WITH A FULL-DEPTH, 1/2" WIDTH ISOLATION JOINT MATERIAL PRIOR TO PLACEMENT OF ADJACENT CONCRETE PAVEMENT.
3. THERE SHALL BE CONTROL JOINTS, EITHER TOOL OR SAW-CUT, MATCH PAVEMENT JOINTS, UNLESS OTHERWISE SPECIFIED. JOINTS SHALL BE FORMED WITHIN 12 HOURS OF PLACEMENT.
4. ALL CURB ENDS THAT DO NOT FIT INTO OTHER FACILITIES SHALL TRANSITION DOWN TO PAVEMENT GRADE IN 24 INCHES.
5. CONSTRUCTION JOINT SHALL BE TIED WITH A No. 4 TIE BAR EXTENDED 6 INCHES INTO EACH CURB SECTION AND SHALL BE SPACED WITH A FULL-DEPTH 1/2" WIDTH ISOLATION JOINT MATERIAL.



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www.cardno.com Certificate of Authorization No. 29915

**CRAIG A. SCHNEIDER, AIA**  
**ARCHITECT**  
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Fax: 417.862.2265  
e-mail: architect@cschneider.com

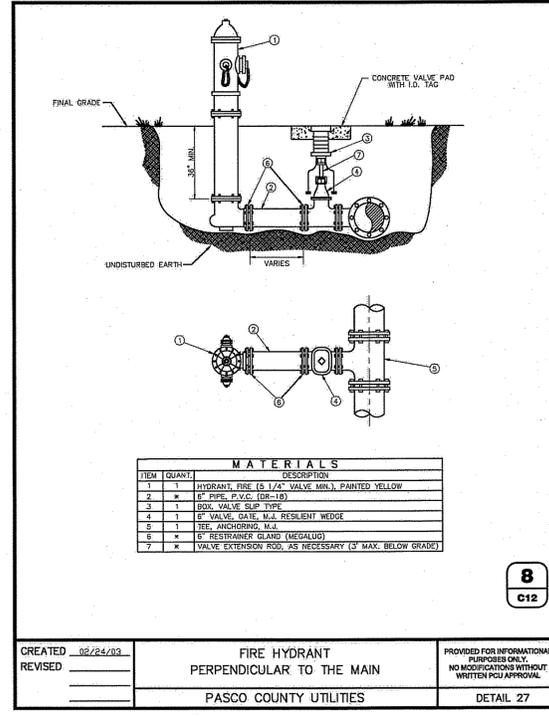
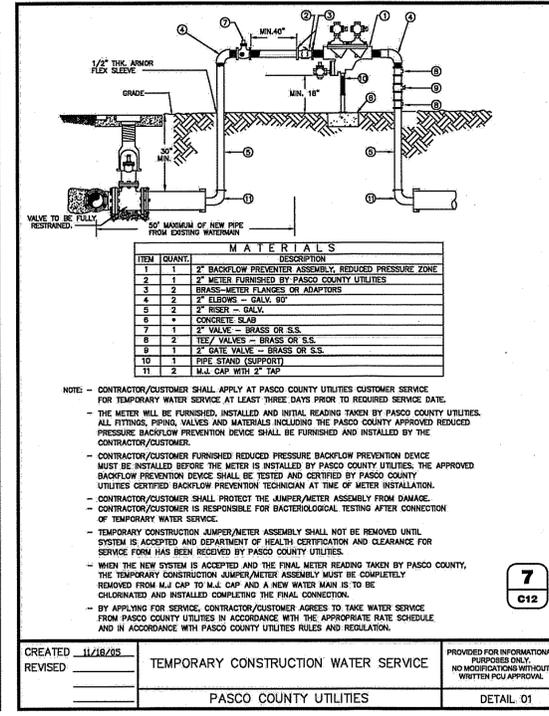
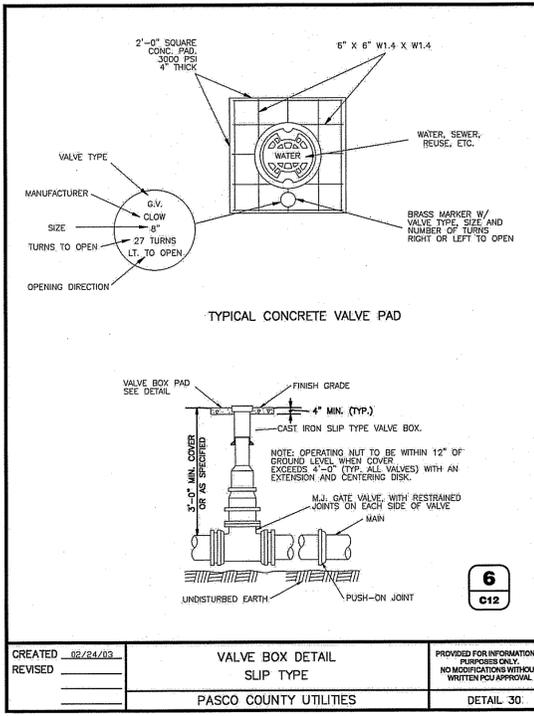
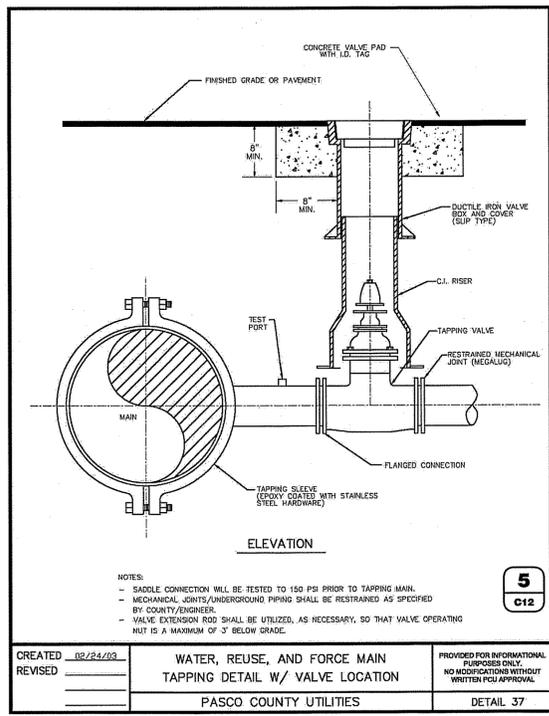
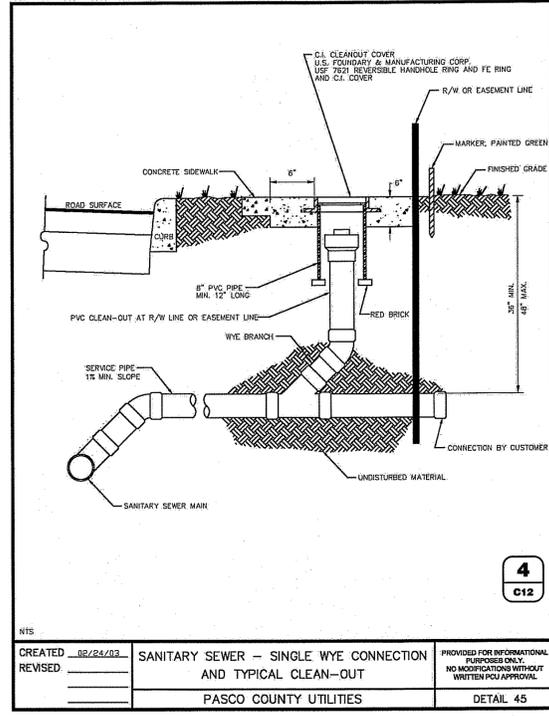
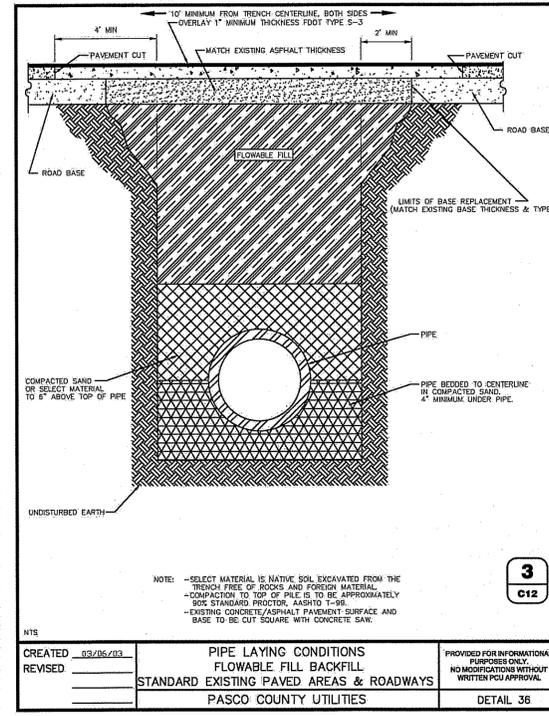
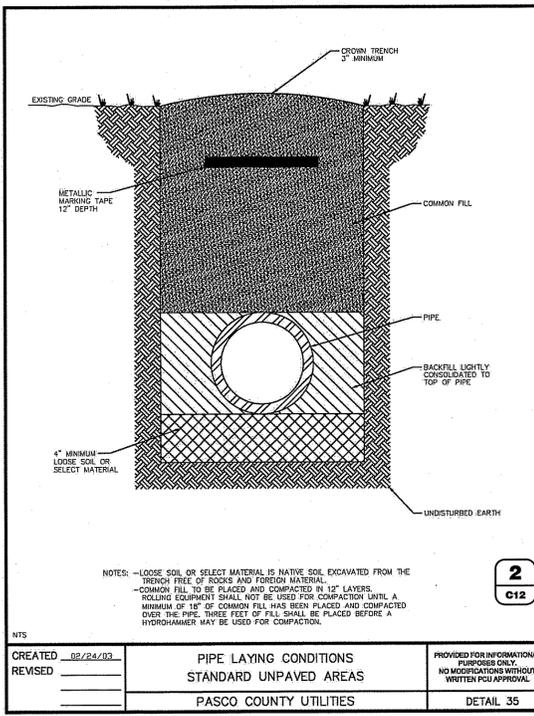
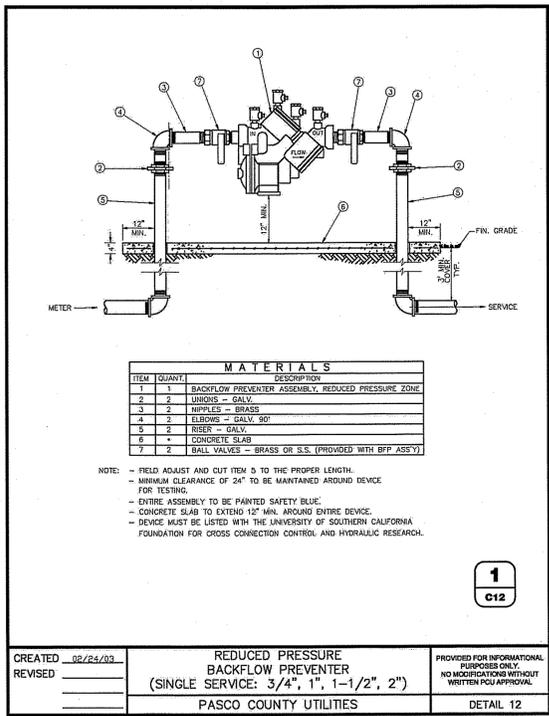
New O'Reilly Auto Parts Store:  
3600 LAND O' LAKES BLVD  
LAND O' LAKES, FL  
(LAND O' LAKES #1)

**O'Reilly AUTO PARTS**  
233 SOUTH PATTERSON  
SPRINGFIELD, MISSOURI 65802  
417-862-2674 PHONE

COMM # 3670

DATE: 04-17-15  
REVISION DATE: 05-19-15

Plot Stamp: 5/19/2015 9:34:34 AM - Joann Rubio  
File: J:\0034\0034001\62\cardno\04-DETAILS.dwg, Tab: Conc 1



**UTILITY DETAILS 1**

**CRAIG A. SCHNEIDER, AIA**  
ARCHITECT  
1736 East Sunshine, Suite 417  
Springfield, Missouri 65804  
417.862.0558  
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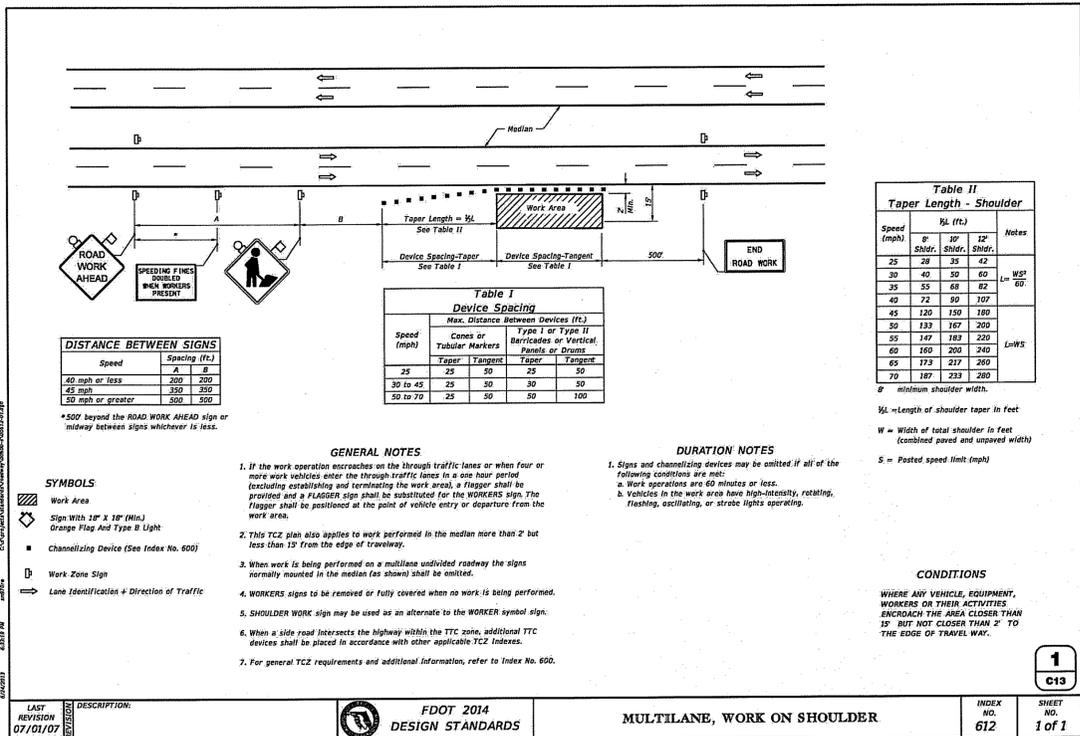
**O'Reilly AUTO PARTS**  
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LAND O' LAKES, FL  
(LAND O' LAKES #1)  
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COMM # 3670

DATE: 04-17-15  
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DATE: 05-19-15



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Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

Speed (mph)	Max. Distance Between Devices (ft.)			
	Type I or Type II Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed (mph)	SL (ft.)			Notes
	# SHDR.	# SHDR.	# SHDR.	
25	28	35	42	L = WS 60'
30	40	50	60	
35	55	68	82	L = WS 60'
40	72	90	107	
45	120	150	180	L = WS 60'
50	133	167	200	
55	147	183	220	L = WS 60'
60	165	200	240	
65	173	217	260	L = WS 60'
70	187	233	280	

**GENERAL NOTES**

- If the work operation encroaches on the through traffic lanes or when four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), a flagger shall be provided and a FLAGGER sign shall be substituted for the WORKERS sign. The flagger shall be positioned at the point of vehicle entry or departure from the work area.
- This TCZ plan also applies to work performed in the median more than 2' but less than 10' from the edge of travelway.
- When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
- WORKERS signs to be removed or fully covered when no work is being performed.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

**DURATION NOTES**

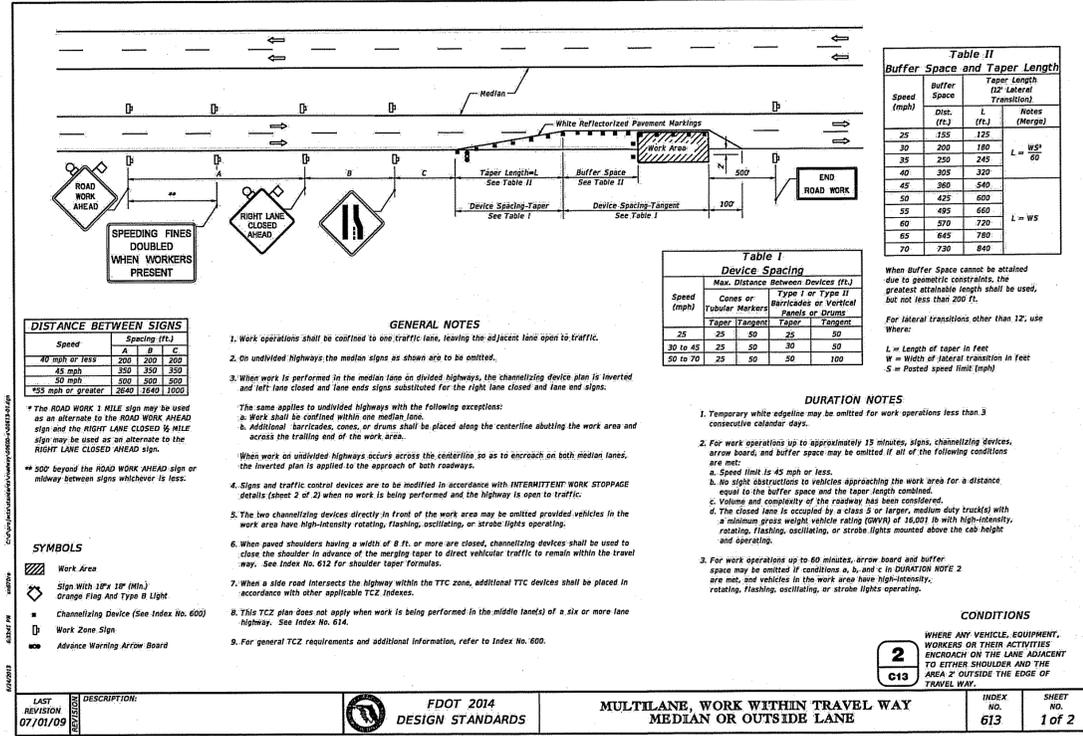
- Signs and channelizing devices may be omitted if all of the following conditions are met:
  - Work operations are 60 minutes or less.
  - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

**CONDITIONS**

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUCH THE AREA CLOSER THAN 10' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

1  
C13

LAST REVISION: 07/01/07	DESCRIPTION: FDOT 2014 DESIGN STANDARDS	INDEX NO. 612	SHEET NO. 1 of 1
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Speed (mph)	Buffer Space (ft.)	Taper Length (ft.)		Notes (Other)
		L	Notes (Other)	
25	155	125	L = WS 60'	
30	200	180		
40	305	320	L = WS 60'	
35	250	245		
45	360	540	L = WS 60'	
50	425	600		
55	485	660	L = WS 60'	
60	570	720		
65	645	760	L = WS 60'	
70	730	840		

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
55 mph or greater	650	650	650

**GENERAL NOTES**

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
  - On undivided highways the median signs as shown are to be omitted.
  - When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane and signs.
- The same applies to undivided highways with the following exceptions:
- Work shall be confined within one median lane.
  - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
- When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
  - Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
  - The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
  - When paved shoulders having a width of 6 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
  - When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
  - This TCZ plan does not apply when work is being performed in the middle lanes of a six or more lane highway. See Index No. 614.
  - For general TCZ requirements and additional information, refer to Index No. 600.

**DURATION NOTES**

- Temporary white outline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
  - Speed limit is 45 mph or less.
  - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
  - Volume and complexity of the roadway has been considered.
  - The closed lane is occupied by a class 3 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GVWR) of 14,000 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

**CONDITIONS**

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUCH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

2  
C13

LAST REVISION: 07/01/09	DESCRIPTION: FDOT 2014 DESIGN STANDARDS	INDEX NO. 613	SHEET NO. 1 of 2
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**CRAIG A. SCHNEIDER, AIA**  
ARCHITECT  
1730 East Sunshine, Suite 417  
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e-mail: architect@estertyschneider.com

New O'Reilly Auto Parts Store  
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LAND O' LAKES, FL  
SPRINGFIELD, MISSOURI 65804  
(LAND O' LAKES #1)

**O'Reilly AUTO PARTS**  
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SPRINGFIELD, MISSOURI 65802  
417-862-2674 PHONE

COMM # 3670

DATE: 04-17-15  
REVISION  
DATE: 05-19-15

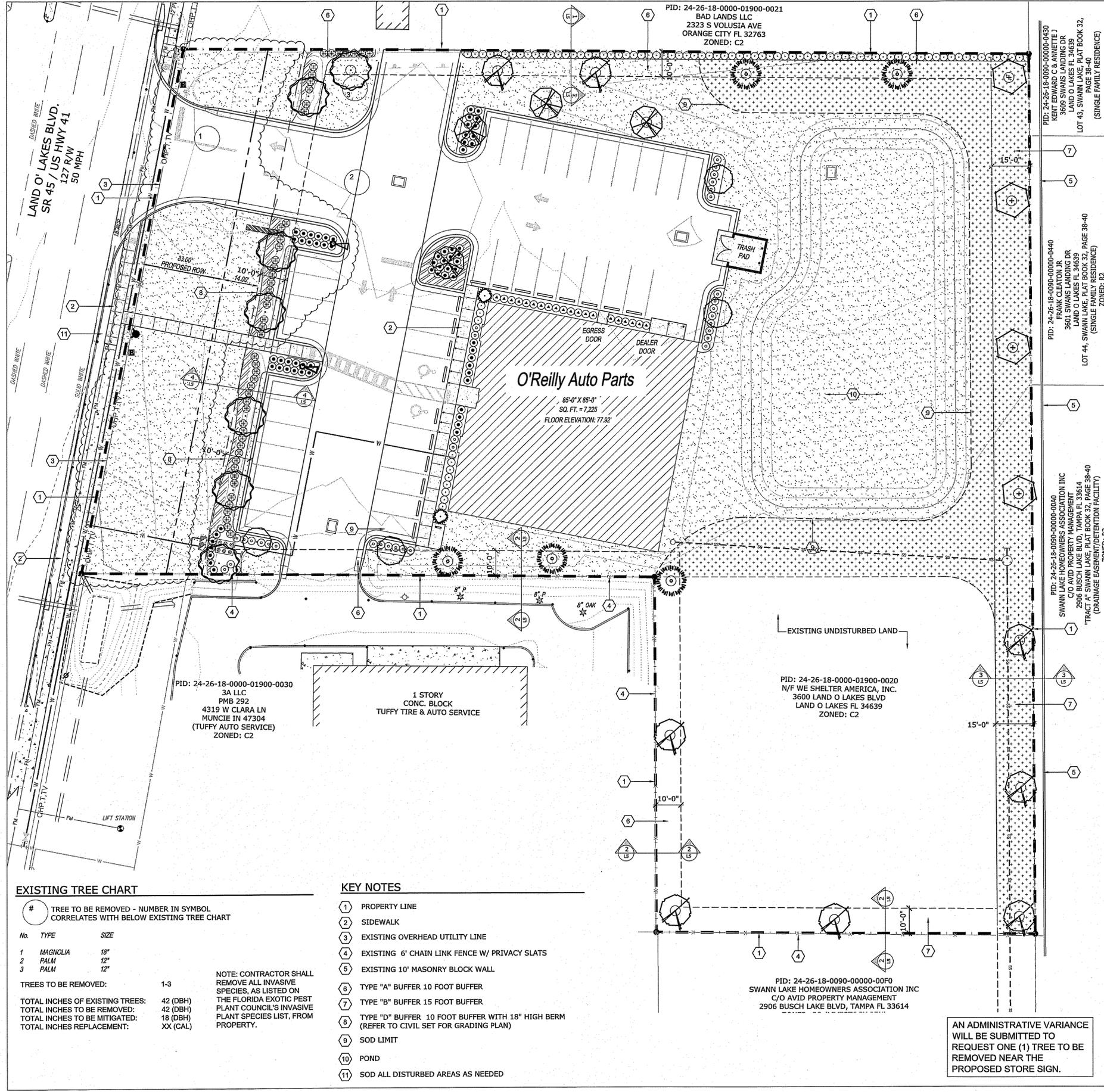
**FDOT MOT DETAILS**

THOMAS M. ROSE  
LICENSE  
NO. 62860  
MAY 20 2015  
THOMAS M. ROSE, PE  
LICENSE NO. 62860

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C13 of 14





PID: 24-26-18-0000-01900-0021  
 BAD LANDS LLC  
 2323 S VOLUSTA AVE  
 ORANGE CITY FL 32763  
 ZONED: C2

PID: 24-26-18-0090-00000-0430  
 KENT EDWARD C & ANNETTE J  
 3609 SWANNS LANDING DR  
 LAND O LAKES FL 34639  
 LOT 43, SWANN LAKE, PLAT BOOK 32,  
 PAGE 38-40  
 (SINGLE FAMILY RESIDENCE)

PID: 24-26-18-0090-00000-0440  
 FRANK CLEATON JR  
 3601 SWANNS LANDING DR  
 LAND O LAKES FL 34639  
 LOT 44, SWANN LAKE, PLAT BOOK 32, PAGE 38-40  
 (SINGLE FAMILY RESIDENCE)  
 ZONED: R2

PID: 24-26-18-0090-00000-0440  
 FRANK CLEATON JR  
 3601 SWANNS LANDING DR  
 LAND O LAKES FL 34639  
 LOT 44, SWANN LAKE, PLAT BOOK 32, PAGE 38-40  
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 LOT 44, SWANN LAKE, PLAT BOOK 32, PAGE 38-40  
 (SINGLE FAMILY RESIDENCE)  
 ZONED: R2

LAND O' LAKES BLVD  
 SR 45 / US HWY 41  
 127' R/W  
 50 MPH

PID: 24-26-18-0000-01900-0030  
 3A LLC  
 PMB 292  
 4319 W CLARA LN  
 MUNCIE IN 47304  
 (TUFFY AUTO SERVICE)  
 ZONED: C2

1 STORY  
 CONC. BLOCK  
 TUFFY TIRE & AUTO SERVICE

PID: 24-26-18-0000-01900-0020  
 N/F WE SHELTER AMERICA, INC.  
 3600 LAND O LAKES BLVD  
 LAND O LAKES FL 34639  
 ZONED: C2

PID: 24-26-18-0090-00000-00F0  
 SWANN LAKE HOMEOWNERS ASSOCIATION INC  
 C/O AVID PROPERTY MANAGEMENT  
 2906 BUSCH LAKE BLVD, TAMPA FL 33614

AN ADMINISTRATIVE VARIANCE  
 WILL BE SUBMITTED TO  
 REQUEST ONE (1) TREE TO BE  
 REMOVED NEAR THE  
 PROPOSED STORE SIGN.



### SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND

	PROPERTY LINE
	AREA OF CONCRETE
	SIGN
	NEW LIGHT POLE LOCATION
	NEW SIGN LOCATION

**HYDROSEED NOTE:**  
 ALL AREAS ARE FIRST TO BE FINE GRADED AND THEN FOLLOWED BY HYDRO MULCH OVER 4" TOPSOIL STOCKPILED FROM SITE OR HAULED IN AS REQUIRE. HYDROSEED MIX PER LATEST VERSION OF FDOT STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION.

CONTRACTOR TO INSTALL HYDROSEED 45 DAYS MINIMUM PRIOR TO APPLYING FOR CERTIFICATE OF OCCUPANCY.

### PLANT MATERIALS SCHEDULE

SYMBOLS	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	MIN SIZE	QTY
<b>TREES</b>						
	RED MAPLE	ACER RUBRUM	2" CAL.	AS SHOWN	12' HT.	7
	CATHEDRAL OAK	QUERCUS VIRGINIANA 'SDIV'	2" CAL.	AS SHOWN	12' HT.	8
	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	2" CAL.	AS SHOWN	12' HT.	5
	BALD CYPRESS	TAXODIUM DISTICHUM	2" CAL.	AS SHOWN	12' HT.	4
	FLORIDA ELM	ULMUS AMERICANA V. FLORIDANA	2" CAL.	AS SHOWN	12' HT.	4
	SWEET ACACIA	ACACIA FARNESIANA	2" CAL.	AS SHOWN	12' HT.	4
	JAPANESE BLUEBERRY	ELAEOCARPUS DECIPENS	2" CAL.	AS SHOWN	6' HT.	2
<b>SHRUBS</b>						
	'PETITE PINK' OLEANDER	NERIUM OLEANDER 'PETITE PINK'	3 GAL.	3'-0" O.C.	18" HT.	86
	PLUMBAGO	PLUMBAGO AURICULATA	3 GAL.	3'-0" O.C.	18" HT.	33
	MRS. SCHILLERS DELIGHT VIBURNUM	V. OBOVATUM 'MRS. SCHILLERS DELIGHT'	3 GAL.	3'-0" O.C.	18" HT.	50
	INDIAN HAWTHORN 'ALBA'	RHAPIOLEPIS INDICA 'ALBA'	3 GAL.	3'-0" O.C.	18" HT.	68
	JAPANESE PITTOSPORUM	PITTOSPORUM TOBIRA	3 GAL.	3'-0" O.C.	18" HT.	20
<b>GROUNDCOVERS</b>						
	CREeping LILYTURF	LIRIOPE SPICATA	1 GAL.	2'-0" O.C.	6" HT.	228
	ARGENTINE BAHIA	PASPALUM NOTATUM 'ARGENTINE'	SOD			30,889 SF
	HYDROSEED	SOD				12,157 SF

**MULCH NOTE:** ALL PLANT BEDS SHALL CONTAIN A 3" LAYER OF MINI PINE BARK NUGGETS (TYP.) ALL TREES IN SOD SHALL RECEIVE A 4" DIAMETER MULCH RING (TYP.)

**SOD NOTE:** DROUGHT TOLERANT BAHIA, AS SPECIFIED ABOVE, TO BE USED TO COVER ALL AREAS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR AND REPLACE ANY DAMAGE TO SITE OUTSIDE OF PROPERTY LINES DUE TO ON-SITE CONSTRUCTION ACTIVITY.

### LANDSCAPE ORDINANCE REQUIREMENTS

**TOTAL SITE LANDSCAPING REQUIREMENT:**  
 ALL PORTIONS OF THE SITE, WHICH IS NOT DEVOTED TO BUILDINGS, SIDEWALKS, PAVING, OR SPECIAL LANDSCAPE FEATURES SHALL BE GRASSED. HOWEVER, NO MORE THAN THIRTY (30) PERCENT OF THE REQUIRED LANDSCAPE AREA MAY BE GRASSED. THE BALANCE SHALL BE LANDSCAPED IN SHRUBS AND GROUND COVER PLANTS.

**MINIMUM INTERIOR LANDSCAPED AREA FOR VEHICULAR USE AREA:**  
 VEHICULAR USE AREA = 16,364 SF  
 REQUIRED INTERIOR LANDSCAPE AREA = 1,636 SF (10% OF V.U.A.)  
 PROPOSED INTERIOR LANDSCAPE AREA = 1,927 SF  
 TREES REQUIRED = 9 (1 PER 200 SF OF REQUIRED INTERIOR LANDSCAPE AREA)  
 TREES PROPOSED = 9

**BUILDING FOUNDATION REQUIREMENT**  
 REQUIRED LANDSCAPE AREA: = 722.5 SF (10% OF BUILDING SF)  
 PROPOSED LANDSCAPE AREA: = 730 SF  
 REQUIRED PERIMETER LANDSCAPING: = 50% OF BUILDING PERIMETER

**REQUIRED BUFFER TYPES**  
 WEST FRONTAGE BY HWY 41: D (1 TREE PER 30 FT. AND AND 5 SHRUBS PER TREE)  
 WEST: A (1 TREE PER 60 FT. AND FENCE)  
 SOUTH: A AND B (1 TREE PER 60 FT. AND FENCE)  
 EAST: B (1 TREE PER 60 FT. AND FENCE)  
 NORTH: A (1 TREE PER 60 FT. AND HEDGE ROW)

**REQUIRED TREE DIVERSITY**  
 NUMBER OF SPECIES REQUIRED = 7 (31-35 PROPOSED TREES)  
 NUMBER OF SPECIES PROPOSED = 7

### EXISTING TREE CHART

#	TREE TO BE REMOVED - NUMBER IN SYMBOL CORRELATES WITH BELOW EXISTING TREE CHART	
No.	TYPE	SIZE
1	MAGNOLIA	18"
2	PALM	12"
3	PALM	12"

TREES TO BE REMOVED: 1-3  
 TOTAL INCHES OF EXISTING TREES: 42 (DBH)  
 TOTAL INCHES TO BE REMOVED: 42 (DBH)  
 TOTAL INCHES TO BE MITIGATED: 18 (DBH)  
 TOTAL INCHES REPLACEMENT: XX (CAL)

NOTE: CONTRACTOR SHALL REMOVE ALL INVASIVE SPECIES, AS LISTED ON THE FLORIDA EXOTIC PEST PLANT COUNCIL'S INVASIVE PLANT SPECIES LIST, FROM PROPERTY.

### KEY NOTES

- PROPERTY LINE
- SIDEWALK
- EXISTING OVERHEAD UTILITY LINE
- EXISTING 6' CHAIN LINK FENCE W/ PRIVACY SLATS
- EXISTING 10' MASONRY BLOCK WALL
- TYPE "A" BUFFER 10 FOOT BUFFER
- TYPE "B" BUFFER 15 FOOT BUFFER
- TYPE "D" BUFFER 10 FOOT BUFFER WITH 18" HIGH BERM (REFER TO CIVIL SET FOR GRADING PLAN)
- SOD LIMIT
- POND
- SOD ALL DISTURBED AREAS AS NEEDED

### PLANTING PLAN

SCALE: 1" = 20'



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 Fax: 417.862.3265  
 e-mail: architect@esterseidmccr.com

**O'Reilly AUTO PARTS**  
 3600 LAND O' LAKES BLVD  
 LAND O' LAKES, FL  
 (LAND O' LAKES #1)

COMM # 3670  
 DATE: 04-17-15  
 REVISION DATE: 05-19-15

PID: 24-26-18-0000-01900-0021  
 BAD LANDS LLC  
 2323 S VOLUSIA AVE  
 ORANGE CITY FL 32763  
 ZONED: C2

PID: 24-26-18-0090-00000-0430  
 KENT EDWARD C & ANNETTE J  
 3609 SWANS LANDING DR  
 LAND O LAKES FL 34639  
 LOT 43, SWANN LAKE, PLAT BOOK 32,  
 PAGE 38-40  
 (SINGLE FAMILY RESIDENCE)

PID: 24-26-18-0090-00000-0440  
 FRANK CLEATON JR  
 3601 SWANS LANDING DR  
 LAND O LAKES FL 34639  
 LOT 44, SWANN LAKE, PLAT BOOK 32,  
 PAGE 38-40  
 (SINGLE FAMILY RESIDENCE)

PID: 24-26-18-0090-00000-0400  
 SWANN LAKE HOMEOWNERS ASSOCIATION INC  
 C/O AVID PROPERTY MANAGEMENT  
 2906 BUSCH LAKE BLVD, TAMPA FL 33614  
 TRACT A, SWANN LAKE, PLAT BOOK 32, PAGE 38-40  
 (DRAINAGE EASEMENT/DETENTION FACILITY)

PID: 24-26-18-0000-01900-0030  
 3A LLC  
 PMB 292  
 4319 W CLARA LN  
 MUNCIE IN 47304  
 (TUFFY AUTO SERVICE)  
 ZONED: C2

1 STORY  
 CONC. BLOCK  
 TUFFY TIRE & AUTO SERVICE

PID: 24-26-18-0000-01900-0020  
 N/F WE SHELTER AMERICA, INC.  
 3600 LAND O LAKES BLVD  
 LAND O LAKES FL 34639  
 ZONED: C2

PID: 24-26-18-0000-03200-0010  
 ST CLOUD CROSSINGS LLC  
 366 10TH AVE S  
 WAITE PARK MN 56387  
 SUGAR & SPICE LEARNING CENTER  
 ZONED: C2

PID: 24-26-18-0090-00000-00F0  
 SWANN LAKE HOMEOWNERS ASSOCIATION INC  
 C/O AVID PROPERTY MANAGEMENT  
 2906 BUSCH LAKE BLVD, TAMPA FL 33614  
 ZONED: R2 (LIVESTOCK PEN)



SYMBOLS LEGEND	
REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND	
	PROPERTY LINE
	AREA OF CONCRETE
	SIGN
	NEW LIGHT POLE LOCATION
	NEW SIGN LOCATION

**IRRIGATION MATERIALS AND LEGEND**

ALL LANDSCAPED AREAS TO BE IRRIGATED WITH AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM UNLESS OTHERWISE NOTED.

- 1 ALL PROPOSED LAWN AREAS THAT HAVE NOT BEEN HATCHED WITH DRIP AREA HATCHING AND DO NOT CONTAIN EXISTING PLANT MATERIAL WILL BE IRRIGATED WITH SPRAY HEAD IRRIGATION OR ROTORS UNLESS OTHERWISE NOTED.
- 2 PLANTER BED IRRIGATION COVERAGE (TYP. OF HATCHED AREAS). ALL PROPOSED PLANTINGS SHALL RECEIVE DRIP IRRIGATION
- 3 POINT OF CONNECTION - PROPOSED SEPARATE BACKFLOW PREVENTER. REFER TO CIVIL SET FOR FURTHER INFORMATION
- 4 2" IRRIGATION MAINLINE- TWIN SEAL P.R. 200 - SDR 21  
 CONTRACTOR WILL BE REQUIRED TO LOOP THE IRRIGATION MAINLINE TO REDUCE PRESSURE LOSS  
 NOTE: MAINLINE LAYOUT IS DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. ALL VALVES AND MAINLINE SHALL BE INSTALLED WITHIN LANDSCAPE AREAS. CONTRACTOR SHALL NOT ROUTE MAINLINE NEAR EXISTING OR PROPOSED TREES, OR UTILITY LINES. REFER TO CIVIL SET FOR MORE INFORMATION PRIOR TO INSTALLATION.
- 5 UNDERPAVEMENT SLEEVING. 4" DIAMETER UNLESS OTHERWISE INDICATED. TO BE INSTALLED BY LANDSCAPE CONTRACTOR AT DEPTH AS PER LOCAL CODE. SCHEDULE 40 PIPE
- 6 POTENTIAL LOCATION FOR WIRELESS MINI WEATHER STATION/ RAIN SENSOR:  
 MOUNT RAIN SENSOR ON TOP OF BUILDING IF ACCEPTABLE WITH OWNER. ENSURE SENSOR IS OUT OF EXISTING AND FUTURE DRIP LINES OF TREES
- 7 AUTOMATIC CONTROLLER:  
 MOUNT CONTROLLER ON BACK OF TRASH ENCLOSURE IF ACCEPTABLE WITH OWNER
- 8 RESILIENT WEDGE ISOLATION/GATE VALVE (TYP. OF ALL) - SIZE PER LINE SIZE
- 9 NO IRRIGATION PROPOSED FOR THE BACK LAWN PORTION OF SITE. EVERYTHING BEYOND THIS LINE WILL NOT BE IRRIGATED. CONTRACTOR TO HAND WATER ALL TREES WITHIN THIS AREA UNTIL FULLY ESTABLISHED. CONTRACTOR TO ENSURE CONST OF HAND WATERING INTO OVERALL IRRIGATION BID.

**DRAFT - INFORMATIONAL PURPOSES ONLY**

IRRIGATION PLANS AND DETAILS WILL BE REVIEWED WITH THE APPROPRIATE BUILDING PERMIT

**IRRIGATION PLAN**

SCALE: 1" = 20'

MAY 20 2015



ANDREW HILL, R.L.A.  
 FL LICENSE NO. LA6667073

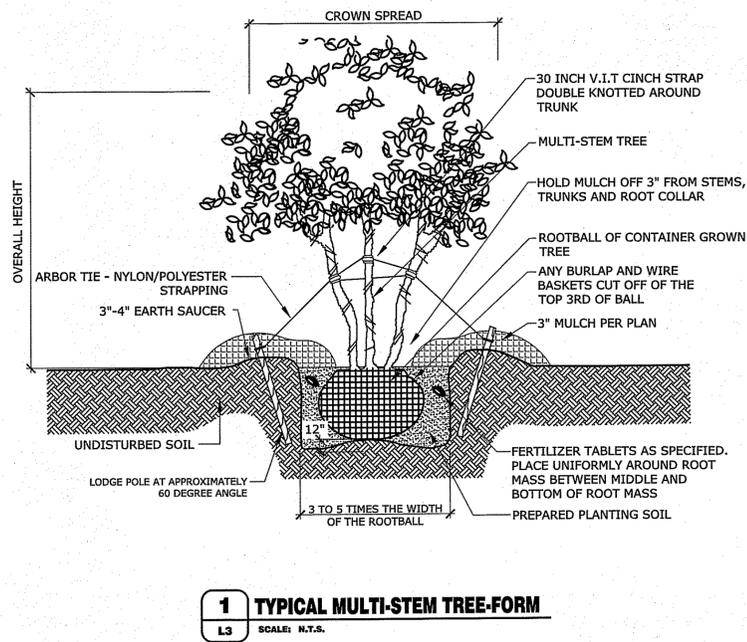
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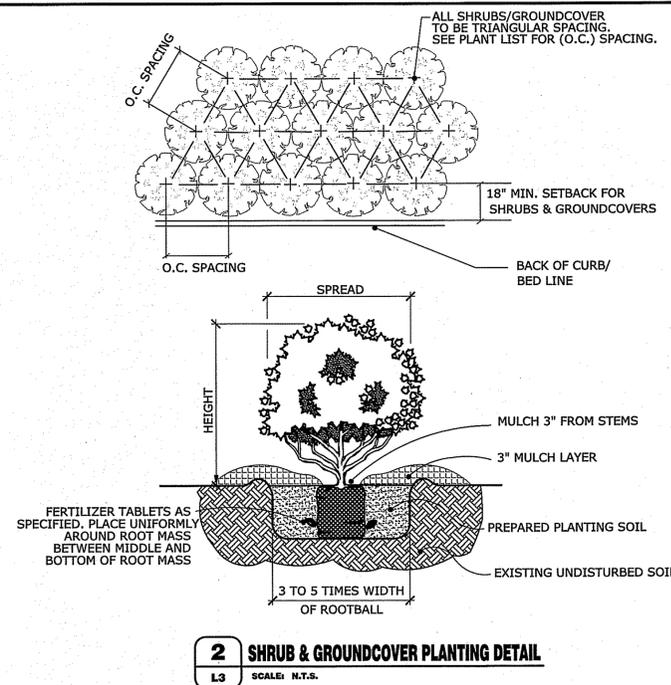
**O'Reilly AUTO PARTS**  
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 SPRINGFIELD, MISSOURI 65802  
 417-862-2674 PHONE

COMM # 3670

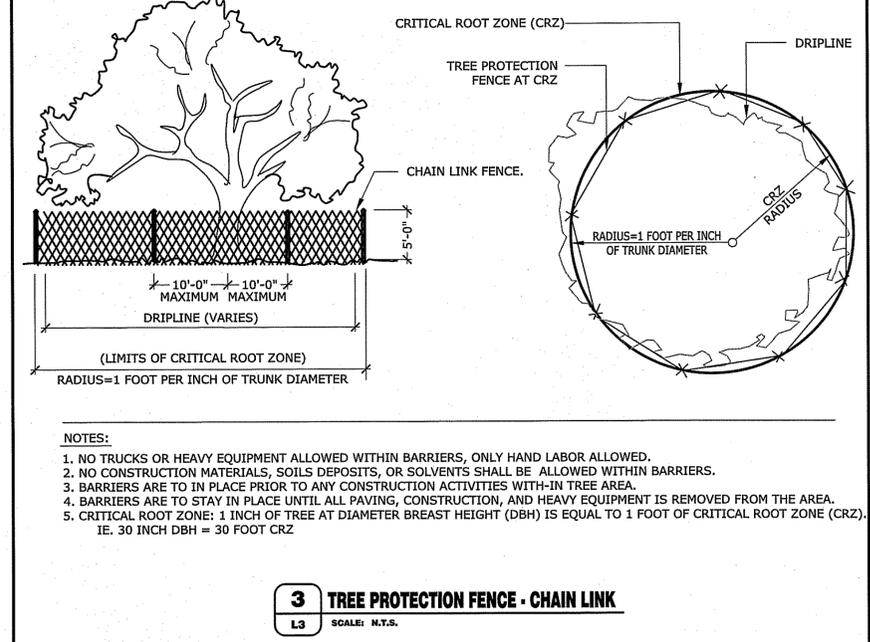
DATE: 04-17-15  
 REVISION DATE: 05-19-15



**1 TYPICAL MULTI-STEM TREE-FORM**  
L3 SCALE: N.T.S.



**2 SHRUB & GROUNDCOVER PLANTING DETAIL**  
L3 SCALE: N.T.S.

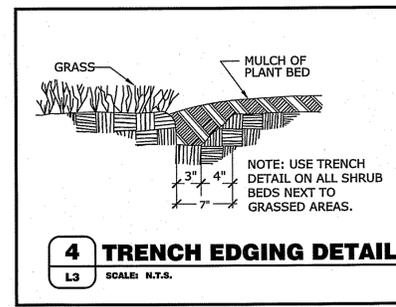


**NOTES:**  
1. NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.  
2. NO CONSTRUCTION MATERIALS, SOILS DEPOSITS, OR SOLVENTS SHALL BE ALLOWED WITHIN BARRIERS.  
3. BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES WITH-IN TREE AREA.  
4. BARRIERS ARE TO STAY IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT IS REMOVED FROM THE AREA.  
5. CRITICAL ROOT ZONE: 1 INCH OF TREE AT DIAMETER BREST HEIGHT (DBH) IS EQUAL TO 1 FOOT OF CRITICAL ROOT ZONE (CRZ).  
IE. 30 INCH DBH = 30 FOOT CRZ

**3 TREE PROTECTION FENCE - CHAIN LINK**  
L3 SCALE: N.T.S.

**LANDSCAPE NOTES**

- ALL PLANTS SHALL BE FLORIDA #1 OR BETTER. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. 14. ALL PLANTS SHALL BE GUARANTEED FOR 1 YEAR AFTER FINAL ACCEPTANCE BY OWNER.
- SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE, A REASONABLE SUBSTITUTION MAY BE MADE UPON REQUEST IN WRITING BY THE LANDSCAPE CONTRACTOR, IF APPROVED BY THE OWNER.
- AS PER THESE DRAWINGS, AND SPECIFICATIONS, THE "HT." (HEIGHT) OF PROPOSED PLANT MATERIALS, UNLESS OTHERWISE SPECIFIED, SHALL MEAN THE ACTUAL DISTANCE AS MEASURED FROM THE SOIL STRESS MARK ON TRUNK OR BASE OF PLANT TO THE TOP ELEVATION OF THE PLANT.
- WORK UNDER THESE SPECIFICATIONS SHALL CONSIST OF PREPARATION OF PLANTING AREA; FURNISHING AND PLANTING ALL PROPOSED NEW PLANT MATERIALS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO FINISHED GRADING, FURNISHING TOPSOIL, STAKING, WATERING, PRUNING, FERTILIZING, MULCHING, AND LAYING SOD; AND MAINTENANCE AND PROTECTION OF PLANTS UNTIL FINAL ACCEPTANCE BY OWNER.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANTS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES LISTED ON THE PLANT MATERIALS LIST. IN THE EVENT OF A VARIATION BETWEEN THE PLANT LIST AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLANTING PLAN, THE PLANTING PLAN SHALL CONTROL.
- THE OWNER SHALL HAVE THE RIGHT TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS OPINION, DO NOT MEET THE REQUIREMENTS OF THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS.
- THE LANDSCAPE CONTRACTOR SHALL STAKE ALL PLANT MATERIAL LOCATIONS FROM THE PLANTING PLAN PRIOR TO INSTALLATION FOR APPROVAL BY THE OWNER.
- ALL PLANTING BED AREAS SHALL BE FINE GRADED BY THE LANDSCAPE CONTRACTOR.
- THE LANDSCAPE CONTRACTOR SHALL EXAMINE THE SOILS OF ALL PLANTING AREAS PRIOR TO PLANTING FOR THE SUITABILITY TO SUSTAIN HEALTHY PLANT GROWTH AS CALLED FOR ON THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS.
- SURFACE OF ALL AREAS TO BE GRASSED SHALL BE PREPARED FOR PLACEMENT OF SOD BY LANDSCAPE CONTRACTOR
- ALL PROPOSED PLANTING AREAS FOR TREES, PALMS, SHRUBS AND GROUNDCOVERS SHALL BE TOP DRESSED WITH A MINIMUM OF THREE (3) INCHES OF PINE BARK MINI NUGGETS MULCH, SPREAD UNIFORMLY IN DEPTH OVER THE PLANTING BEDS AS DELINEATED ON THE PLANS UNLESS OTHERWISE NOTED.
- MULCH, PER SEC. 24-6(B)(4) SHALL BE ORGANIC AND SHALL BE SPECIFIED IN PLANT BEDS AND AROUND INDIVIDUAL TREES. WHEN APPLIED TO TREES, MULCH SHALL NOT BE PLACED ON TOP OF THE ROOT BALL OR BE PLACED AGAINST THE TRUNK. MULCH SHALL BE APPLIED A MINIMUM OF 12" TO 18" FROM THE TRUNK FOR ANY SIZED TREE. MATERIALS THAT DO NOT BIODEGRADE SUCH AS ROCK AND SHELLS, ARE NOT DEEMED ACCEPTABLE. FAILURE TO INSTALL MULCH (AND TYPE OF MULCH) AS PROVIDED IN THE SPECIFICATION ABOVE MAY RESULT IN A FAILED INSPECTION. SEE [HTTP://HORT.IFAS.UFL.EDU/WOODY/OVER-MULCHING.SHTML](http://hort.ifas.ufl.edu/woody/over-mulching.shtml) FOR MORE INFORMATION.
- ALL PLANTS, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN STOCK, AND SHALL COMPLY WITH ALL REQUIRED INSPECTIONS, GRADING STANDARDS, PLANT REGULATIONS AND REQUIREMENTS FOR MEASUREMENT, BRANCHING AND CULTURAL PRACTICES; AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS", (LATEST EDITION), INCLUDING REVISIONS AS DETERMINED BY THE STATE PLANT BOARD OF FLORIDA OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY STOCK," AMERICAN NATIONAL STANDARDS INSTITUTE.
- NO LANDSCAPE MATERIALS OTHER THAN SOD ARE ALLOWED WITHIN (5') FIVE FEET OF ANY PORTION OF CITY OWNED UTILITY MAINS OR LINES LOCATED WITHIN THE PUBLIC STREET RIGHT-OF-WAY WHICH INCLUDES METERS, HYDRANTS, SERVICE LINES; ETC. PLEASE PLACE THIS NOTE ON THE LANDSCAPE PLANS
- WHERE PROPOSED TREE LOCATIONS OCCUR UNDER EXISTING OVERHEAD UTILITIES OR CROWD EXISTING TREES, NOTIFY LANDSCAPE ARCHITECT TO ADJUST TREE LOCATIONS.
- PRIOR TO MOBILIZATION THE CONTRACTOR SHALL NOTIFY THE OWNER, IN WRITING, IF HE/SHE BELIEVES ANY OF THE PLANT MATERIAL IDENTIFIED ON THE PLAN MAY NOT BE SUITABLE FOR THE SITE OR MAY DIE. SUBSTITUTION REQUESTS WILL BE GRANTED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. IF NOTIFICATION IS NOT GIVEN TO THE OWNER ALL PLANTING WHICH FAILS TO GROW (EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE AS DETERMINED BY THE OWNER, NEGLIGENCE OR VANDALISM) SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS
- SITE CONDITIONS BASED UPON SURVEY PROVIDED BY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- REESTABLISH TURF IN AREAS DISTURBED BY GRADING OR UTILITY TRENCHING IN THE RIGHT-OF-WAY.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWING
- ALL LANDSCAPE MAINTENANCE SHALL BE IN ACCORDANCE WITH PASCO COUNTY STANDARDS



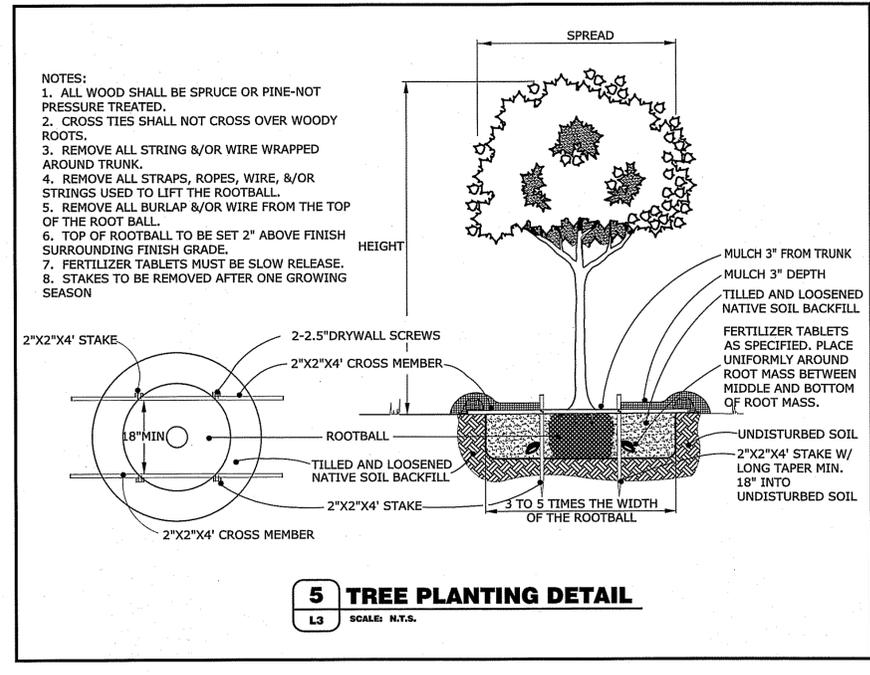
**4 TRENCH EDGING DETAIL**  
L3 SCALE: N.T.S.

**TREE PROTECTION NOTES**

- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, DO NOT PLACE SOIL DEPOSITS, DEBRIS SOLVENTS, MACHINERY CONSTRUCTION MATERIAL OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN.
- BEFORE CONSTRUCTION STARTS ALL PROTECTED TREES SHALL BE PRUNED AS FOLLOWS UNLESS OTHERWISE DIRECTED BY THE OWNER OR HIS REPRESENTATIVE: REMOVE ANY DEAD OR DISEASED TRUNKS OR BRANCHES, AND REMOVE WEAK OR CROSSED BRANCHES. ALL CUTS SHALL BE MADE SUFFICIENTLY CLOSE TO THE TRUNK OR PARENT LIMB, WITHOUT CUTTING INTO THE BRANCH COLLAR OR LEAVING A PROTRUDING STUB, SO THAT CLOSURE CAN READILY START. ALL TRIMMING SHALL BE DONE BY A QUALIFIED TREE SURGEON. PRUNING SHALL BE IN ACCORDANCE WITH ANSI A-300 PRUNING STANDARDS.
- ALL ROOTS TO BE REMOVED DURING THE SITE CLEARING SHALL BE SEVERED CLEAN AT THE PERIMETER OF THE DESIGNATED PROTECTED RADIUS. A 3" LAYER OF MULCH SHALL BE IMMEDIATELY APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES. A SOIL AUGER WILL BE USED TO BORE UNDER ROOT SYSTEMS UTILITIES ARE TO BE INSTALLED WITHIN 10' OF A PROTECTED TREE.

**ROOT PRUNING NOTE:**

WHEN THE CRITICAL ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS. ROOTS CAN BE PRUNED BY UTILIZING TRENCHING EQUIPMENT DESIGNED FOR THIS PURPOSE OR BY HAND DIGGING A TRENCH AND PRUNING ROOTS WITH A PRUNING SAW, CHAIN SAW OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING. ROOTS LOCATED WITHIN A CRITICAL ROOT ZONE THAT WILL BE IMPACTED BY CONSTRUCTION MUST BE PRUNED TO A DEPTH OF 18 INCHES BELOW THE EXISTING GRADE OR TO THE DEPTH OF DISTURBANCE IF LESS THAN 18 INCHES FROM THE EXISTING GRADE. WHEN UNDERGROUND UTILITY LINES ARE TO BE INSTALLED WITHIN THE CRITICAL ROOT ZONE, THE ROOT PRUNING REQUIREMENTS MAY BE WAIVED IF THE LINES ARE INSTALLED VIA TUNNELING OR DIRECTIONAL BORING AS OPPOSED TO OPEN TRENCHING. A LICENSED CERTIFIED ARBORIST SHALL PROVIDE PRUNING.



**5 TREE PLANTING DETAIL**  
L3 SCALE: N.T.S.

**DETAILS**

MAY 20 2015



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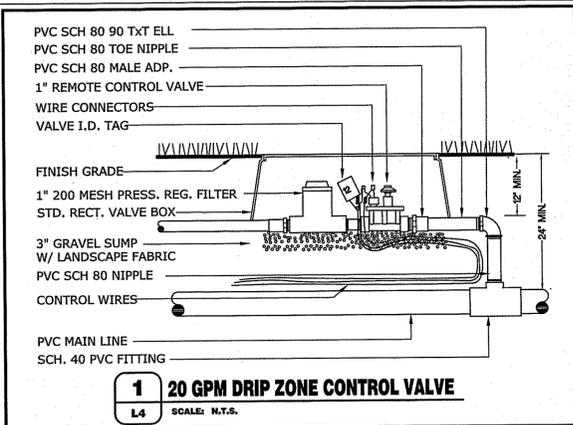
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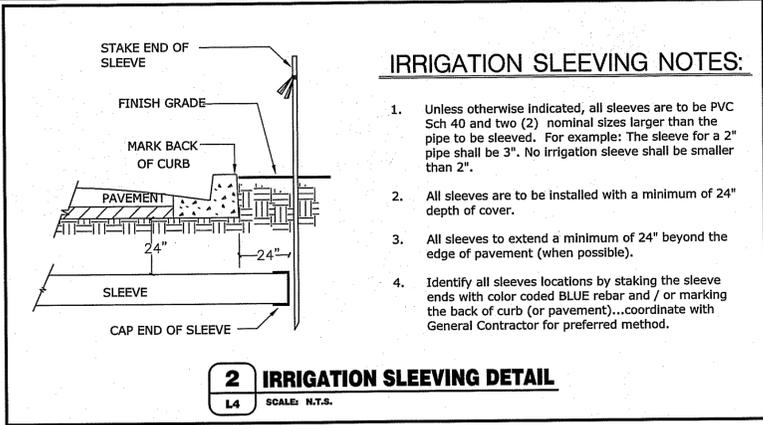
DATE: 04-17-15  
REVISION DATE: 05-19-15

**IRRIGATION NOTES:**

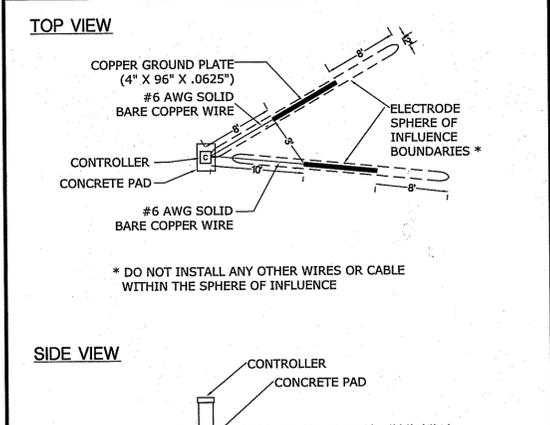
- IF REQUIRED, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE NECESSARY "RIGHT OF WAY" USE PERMITS.
- THE MAINLINE IS TO BE INSTALLED WITH A MINIMUM OF 24" DEPTH OF COVER. ALL LATERAL LINES ARE TO BE INSTALLED WITH A MINIMUM OF 12" DEPTH OF COVER.
- THE IRRIGATION DISTRIBUTION MAINLINE SHALL BE INSTALLED PER THE COUNTY OF PASCO'S WATER STANDARDS.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL SLEEVING FOR THE PROJECT. ALL SLEEVES ARE TO BE PVC SCH 40 AND TWO (2) NOMINAL SIZES LARGER THAN THE PIPE TO BE SLEEVED. FOR EXAMPLE: THE SLEEVE FOR A 2" PIPE SHALL BE 3". NO IRRIGATION SLEEVE SHALL BE SMALLER THAN 2".
- WHEREVER PRACTICAL, INSTALL VALVES IN MULCHED BEDS AND/OR OUT OF HIGH TRAFFIC AREAS. ALL VALVES, FLUSH VALVES AND WIRE SPLICES SHALL BE INSTALLED IN RAIN BIRD WIDE FLANGED, STRUCTURAL FOAM "PLASTIC" VALVES BOXES WITH LIDS AS FOLLOWS:  
 REMOTE CONTROL VALVES #VB-STD, 12" STD. RECT. BOX  
 ISOLATION GATE VALVES #VB-10RND, 10" ROUND BOX  
 WIRE SPLICES #VB-10RND, 10" ROUND BOX  
 DRIP ZONE VALVE / FILTER ASSY #VB-SPR, SUPER JUMBO RECT. BOX
- ALL POP-UP SPRINKLER HEADS SHALL BE INSTALLED LEVEL AND FLUSH TO GRADE.
- LOCATION OF ALL SPRINKLER HEADS SHALL BE SITE ADJUSTED TO MINIMIZE WATER OVERTHROW ONTO BUILDING SURFACES AND WALKWAYS. THROTTLE VALVES ON SPRAY ZONES AS REQUIRED TO PREVENT FOGGING. USE LOW TRAJECTORY NOZZLES WHENEVER POSSIBLE.
- INSTALL DRIP TUBING AT GRADE AND COVER WITH MULCH. TYPICAL SPACING FOR DRIP TUBING IS 18" TO 24" ON CENTER. SPACING TO BE DETERMINED BY SOIL TYPE. ANCHOR TUBING EVERY 7' WITH 8" LONG WIRE TUBING STAKES. INSTALL FLUSH VALVE ASSEMBLIES AT ALL TUBING "DEAD ENDS".
- EXACT CONTROLLER LOCATION(S) SHALL BE COORDINATED WITH AN OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. UNLESS OTHERWISE STATED, THE GENERAL CONTRACTOR SHALL PROVIDE 110 VOLT POWER TO THE CONTROLLER LOCATION(S). THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE CONNECTION FROM THE POWER SOURCE TO THE CONTROLLER(S).
- AT EACH IRRIGATION CONTROLLER, INSTALL A "SECONDARY SURGE ARRESTER" TO THE INCOMING (120 VOLT) POWER SUPPLY (INTERMATIC #AG2401 OR EQUAL).
- AT EACH IRRIGATION CONTROLLER, INSTALL AN "EARTH GROUND GRID" WITH A MINIMUM OF TWO (2) 4" X 96" GROUNDING PLATES. TEST THE RESISTANCE TO EARTH PER NFPA STANDARD #780. A ACCEPTABLE EARTH GROUND SHOULD HAVE 10 OHMS OR LESS RESISTANCE. USE MORE PLATES OR GROUNDING RODS AS NEEDED TO ACHIEVE THE DESIRED RESISTANCE READING.
- THE WIRELESS RAIN SHUTOFF DEVICE SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS. OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE. DO NOT LOCATE IN AN AREA SHELTERED FROM RAIN.
- THE IRRIGATION CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON REPRODUCIBLE PAPER DETAILING THE ACTUAL INSTALLATION OF THE IRRIGATION SYSTEM. THE AS-BUILT DRAWINGS SHALL LOCATE ALL MAIN LINE PIPING, CONTROL WIRES, WIRE SPLICES, SLEEVES AND VALVES BY SHOWING EXACT MEASUREMENTS FROM PERMANENT FEATURES (BUILDINGS, EDGE OF PAVEMENT, POWER POLES, FIRE HYDRANTS, ETC.). INCLUDE DEPTH OF COVER ON MAINLINE AND SLEEVES. FINAL APPROVAL WILL NOT BE GIVEN WITHOUT A SUBMITTED AND APPROVED AS-BUILT.
- ANY OTHER EQUIPMENT REQUIRED THAT IS NOT OTHER WISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
- ALL IRRIGATION SYSTEMS SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE TO COUNTY OF PASCO'S STANDARDS.



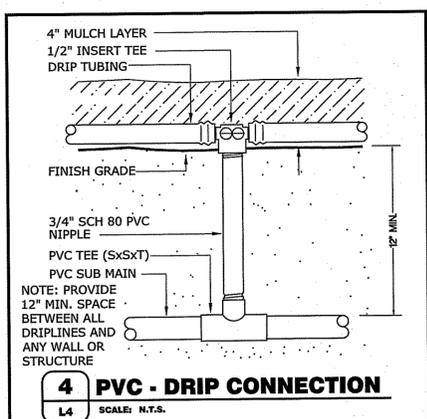
**1 20 GPM DRIP ZONE CONTROL VALVE**  
L4 SCALE: N.T.S.



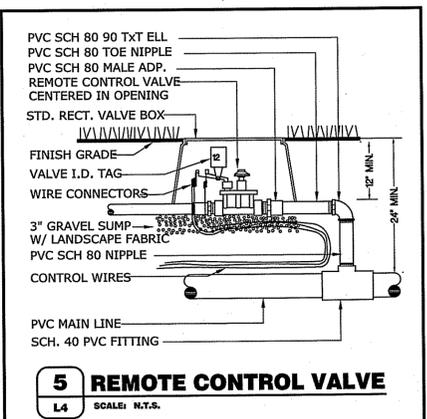
**2 IRRIGATION SLEEVING DETAIL**  
L4 SCALE: N.T.S.



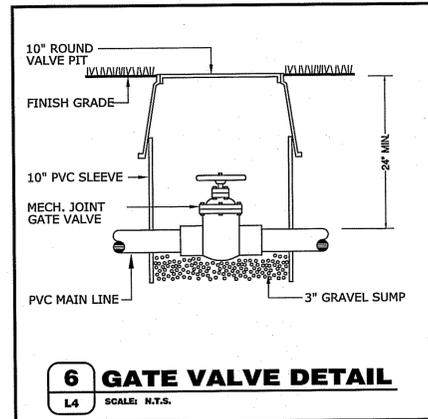
**3 CONTROLLER GROUNDING**  
L4 SCALE: N.T.S.



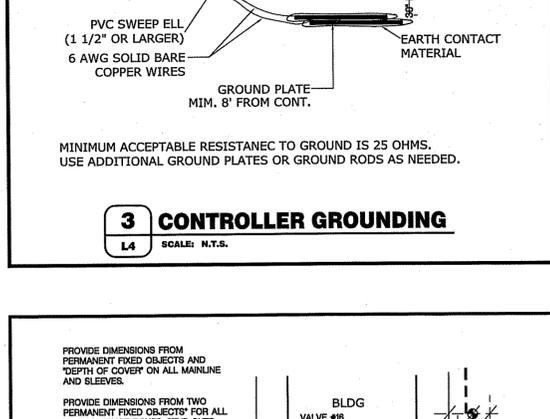
**4 PVC - DRIP CONNECTION**  
L4 SCALE: N.T.S.



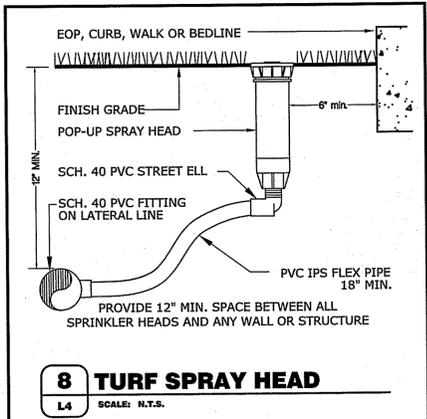
**5 REMOTE CONTROL VALVE**  
L4 SCALE: N.T.S.



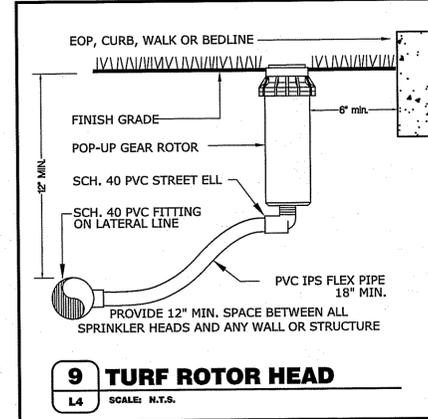
**6 GATE VALVE DETAIL**  
L4 SCALE: N.T.S.



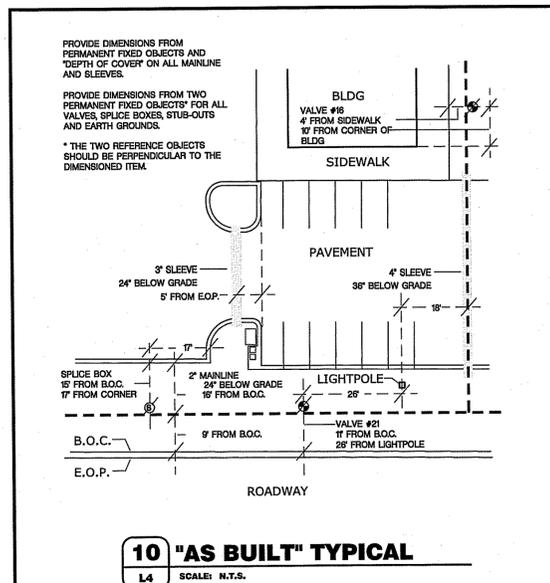
**7 TREE BUBBLER**  
L4 SCALE: N.T.S.



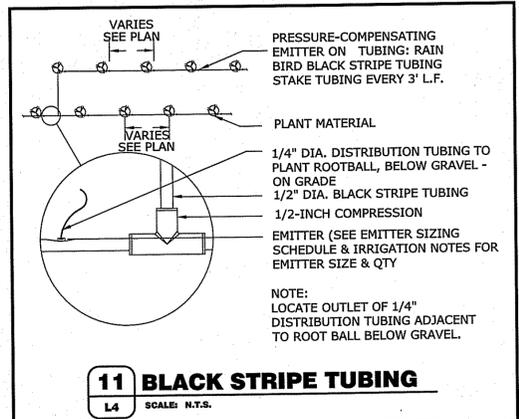
**8 TURF SPRAY HEAD**  
L4 SCALE: N.T.S.



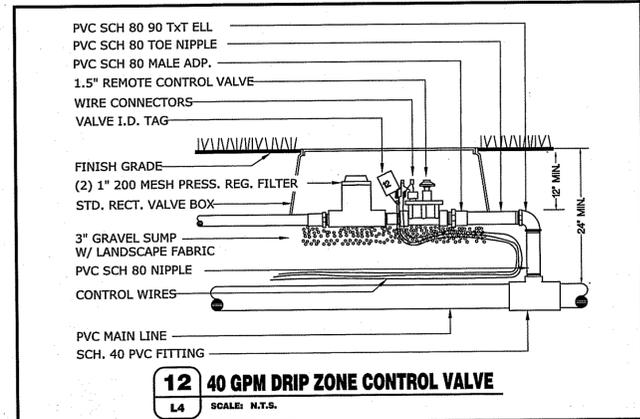
**9 TURF ROTOR HEAD**  
L4 SCALE: N.T.S.



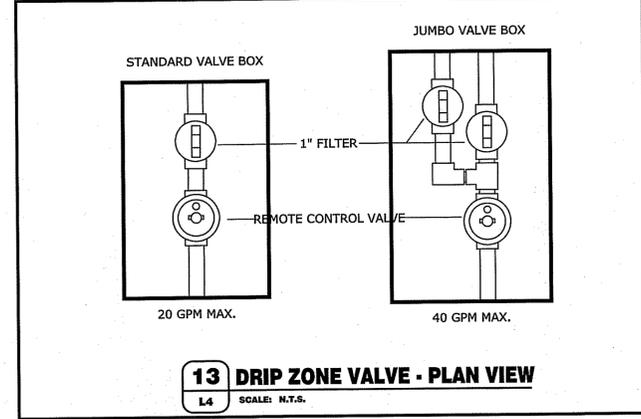
**10 "AS BUILT" TYPICAL**  
L4 SCALE: N.T.S.



**11 BLACK STRIPE TUBING**  
L4 SCALE: N.T.S.



**12 40 GPM DRIP ZONE CONTROL VALVE**  
L4 SCALE: N.T.S.



**13 DRIP ZONE VALVE - PLAN VIEW**  
L4 SCALE: N.T.S.

- IRRIGATION SLEEVING NOTES:**
- Unless otherwise indicated, all sleeves are to be PVC Sch 40 and two (2) nominal sizes larger than the pipe to be sleeved. For example: The sleeve for a 2" pipe shall be 3". No irrigation sleeve shall be smaller than 2".
  - All sleeves are to be installed with a minimum of 24" depth of cover.
  - All sleeves to extend a minimum of 24" beyond the edge of pavement (when possible).
  - Identify all sleeves locations by staking the sleeve ends with color coded BLUE rebar and / or marking the back of curb (or pavement)...coordinate with General Contractor for preferred method.

**DETAILS**

MAY 20 2015

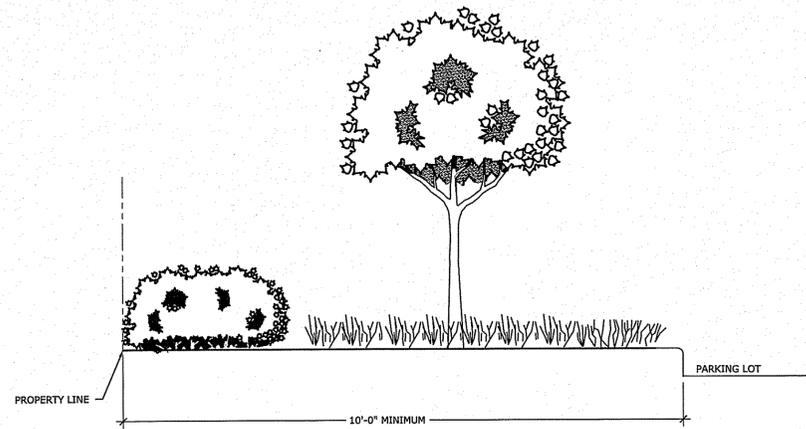
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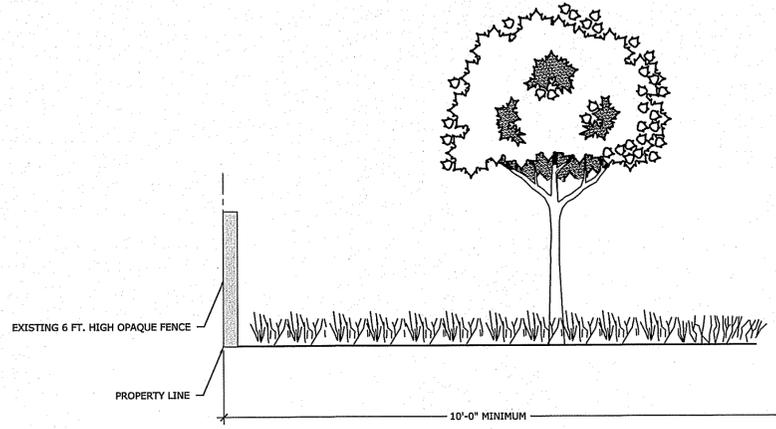
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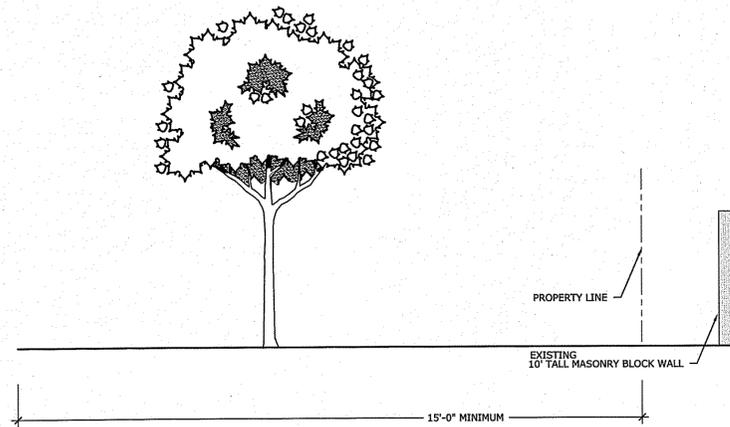
COMM # 3670  
DATE: 04-17-15  
REVISION DATE: 05-19-15  
L4 OF 5



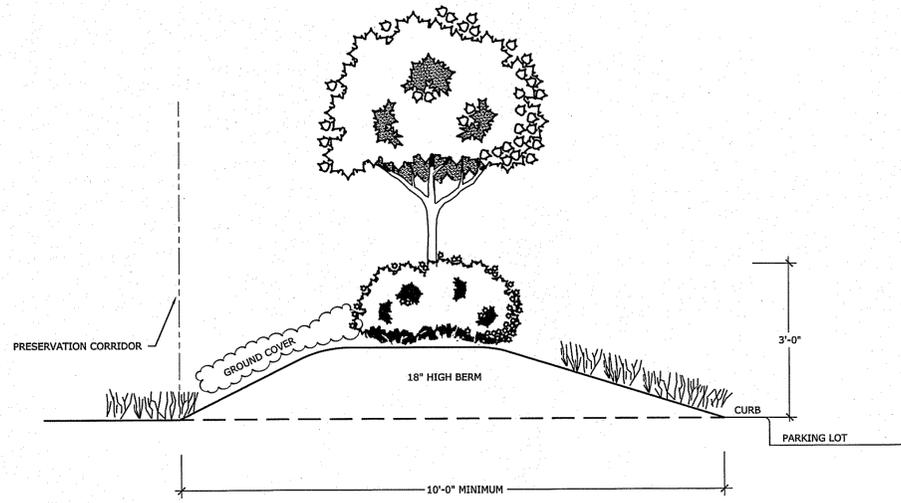
**1 TYPE "A" BUFFER - NORTH**  
L5 SCALE: N.T.S.



**2 TYPE "A" BUFFER - SOUTH AND SOUTH WEST**  
L5 SCALE: N.T.S.



**3 TYPE "B" BUFFER - EAST**  
L5 SCALE: N.T.S.



**4 TYPE "D" BUFFER - WEST FRONTAGE**  
L5 SCALE: N.T.S.

**BUFFER SECTIONS**

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