JOHNSON TECHNOLOGY CENTER FORTS

City of Coconut Creek, Broward County, Florida

OWNER:
ELITE ALUMINUM CORP.
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073
PHONE: (954) 949-3204
FAX: (954) 949-3201

CIVIL ENGINEER:
SUN-TECH ENGINEERING, INC.
1600 WEST OAKLAND PARK BLVD
FORT LAUDERDALE, FL 33311
PHONE: (954) 777-3123
FAX: (954) 777-3114

SURVEYOR:
McLAUGHIN ENGINEERING COMPANY (LB#285)
400 N.E. 3rd AVENUE
FORT LAUDERDALE, FL 33311
PHONE: (954) 763-7611
FAX: (954) 763-7615

ARCHITECT:
T&T DESIGN DEVELOPMENT, INC.
6810 LYONS TECHNOLOGY CIR. SUITE 140
COCONUT CREEK, FL 33073
PHONE: (954) 725-9499

LANDSCAPE ARCHITECT:

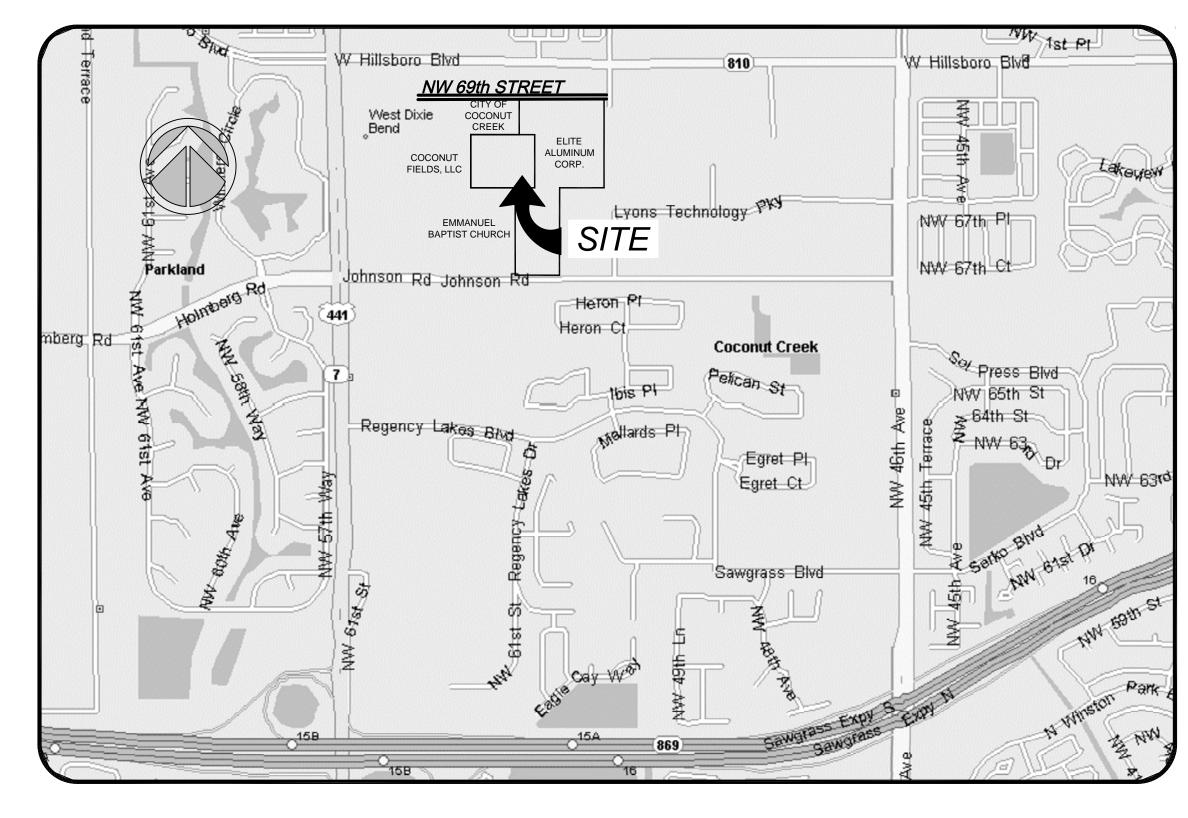
JFS DESIGN, INC.

1833 NW 140th TERR.

PEMBROKE PINES, FL 33028

PHONE: (954) 447–1852

FAX: (954) 367–4230



SECTION 6, TOWNSHIP 48 SOUTH, RANGE 42 EAST

LOCATION MAP

INDEX OF DRAWINGS SHEET NO. TITLE **COVER SHEET** OVERALL SITE PLAN SITE PLAN HORIZONTAL CONTROL PLAN S1 SURVEY PLAT FLOOR PLAN **ELEVATIONS** TREE DISPOSITION PLAN LANDSCAPE PLAN & DETAILS SPECIFICATIONS SITE PHOTOMETRIC PAVING, GRADING & DRAINAGE PLAN PAVING AND DRAINAGE DETAILS WATER AND SEWER PLAN AND DETAIL SHEET

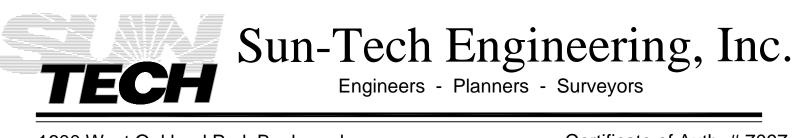
LEGAL DESCRIPTION:

A PARCEL OF LAND, BEING A PORTION OF PARCEL "A" AND A PORTION OF PARCEL "L-2", "JOHNSON ROAD COMMERCE CENTRE", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 177, PAGE 8 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE MOST WESTERLY SOUTHWEST CORNER OF SAID PARCEL "A", THENCE ALONG A WEST LINE OF SAID PARCEL "A", NORTH 00'24'02" WEST, 396.00 FEET TO THE MOST WESTERLY NORTHWEST CORNER OF SAID PARCEL "A", THENCE ALONG A NORTH LINE OF SAID PARCEL "A", NORTH 89'35'58" EAST, 360.00 FEET TO A CORNER OF SAID PARCEL "A", THENCE ALONG A WEST LINE OF SAID PARCEL "A" AND ITS NORTHERLY PROLONGATION ALONG THE WEST LINE OF SAID PARCEL "L-2", NORTH 00'24'02" WEST, 249.00 FEET TO THE NORTHWEST CORNER OF SAID PARCEL "L-2", NORTH 89'35'58" EAST, 36.00 FEET; THENCE SOUTH 00'24'02" EAST, 249.00 FEET; THENCE SOUTH 89'35'58" EAST, 55.00 FEET; THENCE SOUTH 00'24'02" EAST, 395.74 FEET TO A POINT ON THE EASTERLY PROLONGATION OF A SOUTH LINE OF SAID PARCEL "A", THENCE SOUTH 89'36'00" WEST, 121.23 FEET TO A CORNER OF SAID PARCEL "A" (SAID POINT BEING THE NORTHEAST CORNER OF PARCEL "A", "EMMANUEL BAPTIST CHURCH PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 72 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA); THENCE ALONG A SOUTH LINE OF SAID PARCEL "A", CONTINUE SOUTH 89'34'00" WEST, 329.77 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA, AND CONTAINING 4.3044 ACRES (187,501 SQUARE FEET) MORE OR LESS.

NOTE: THE PROPOSED IMPROVEMENTS HAVE BEEN DESIGNED IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY, AND CITY OF COCONUT CREEK CODES AND STATUTES. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THE PLANS AND/OR SPECIFICATIONS PREPARED BY THE ENGINEER OF RECORD OR REGISTERED ARCHITECT AND ANY PUBLISHED STANDARDS, INCLUDING BUT NOT LIMITED TO THE CITY OF COCONUT CREEK CODE AND/OR THE CITY OF COCONUT CREEK ADOPTED UTILITY AND ENGINEERING STANDARDS, SPECIFICATIONS AND CONSTRUCTION DETAILS, SAID DISCREPANCIES SHALL BE RESOLVED UTILIZING THE LATEST AND MOST UPDATED STANDARDS ADOPTED BY THE AGENCY HAVING JURISDICTION, OR THE MOST STRINGENT.



1600 West Oakland Park Boulevard Ft. Lauderdale, FL 33311 www.suntecheng.com

Certificate of Auth. # 7097 Phone (954)777-3123 Fax (954)777-3114



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PROJECT NO. 12-3516
DESIGN DATE: OCT 2012

TE: OCT 2012

May 28 2013

FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516c.dwg
PLOT DATE: 5/29/2013 8:28 AM BY: Andy Venneman
LAYOUT: [COV-SP]

CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890

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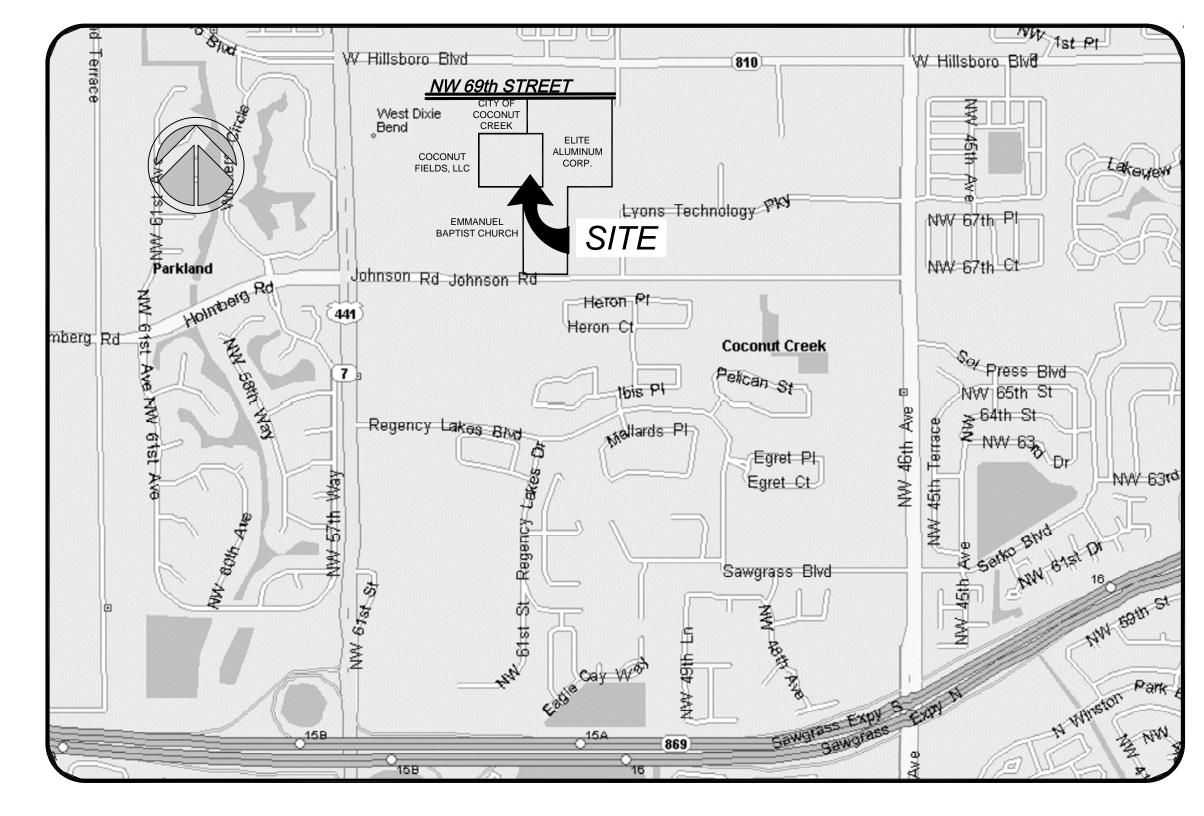
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LOCATION MAP

Sun-Tech Engineering, Inc.

Engineers - Planners - Surveyors

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Ft. Lauderdale, FL 33311
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SHEET NO. TITLE

COVER SHEET

SP1 OVERALL SITE PLAN

SP2 SITE PLAN

HCP HORIZONTAL CONTROL PLAN

GN1 GENERAL NOTES

PD1 PAVING, GRADING & DRAINAGE PLAN

PD2-PD9 PAVING AND DRAINAGE DETAILS

WS1-WS5 WATER AND SEWER PLAN AND DETAIL SHEET

SS1 SANITARY SEWER PROFILES

SWPP1-SWPP3 STORMWATER POLLUTION PREVENTION PLAN

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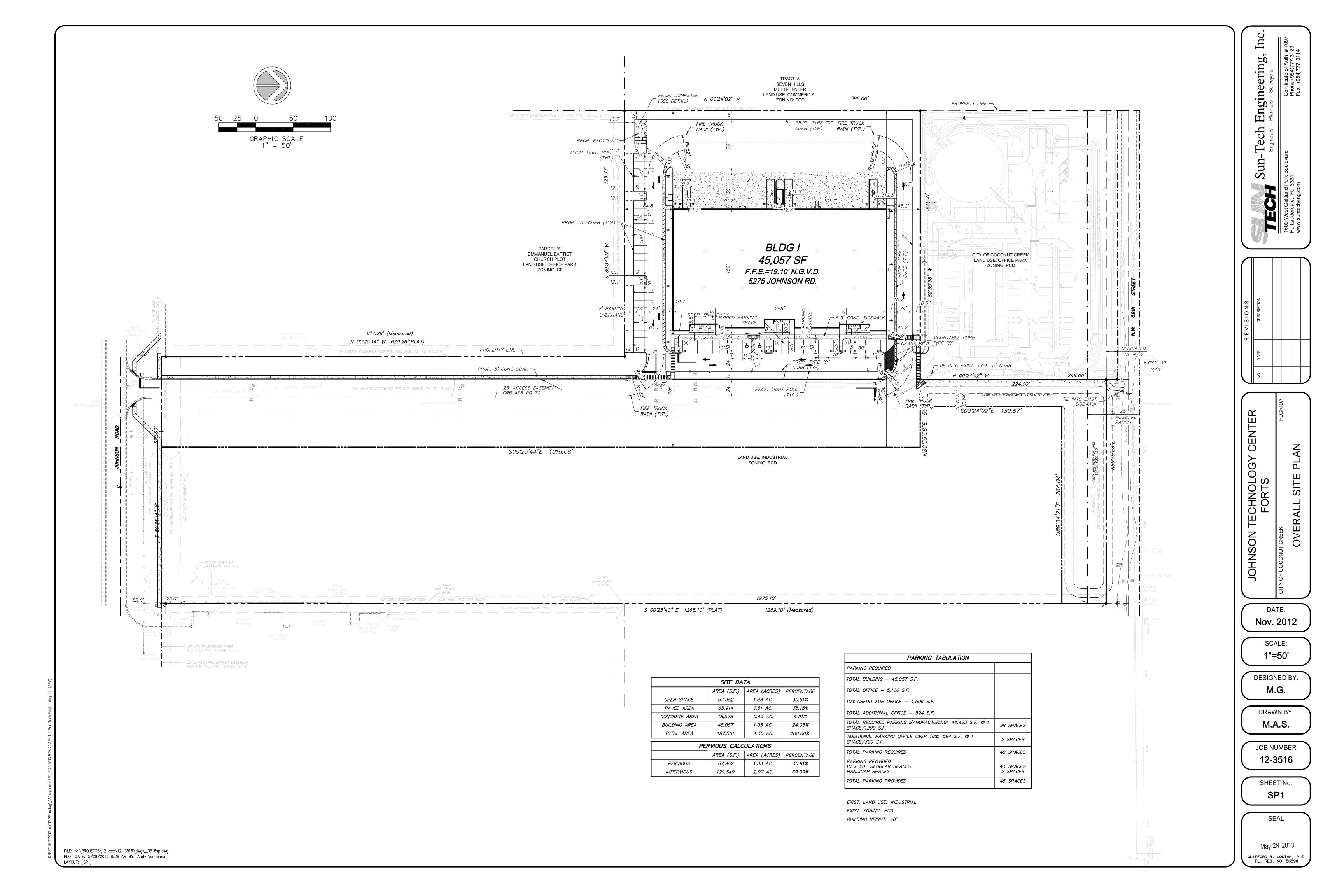
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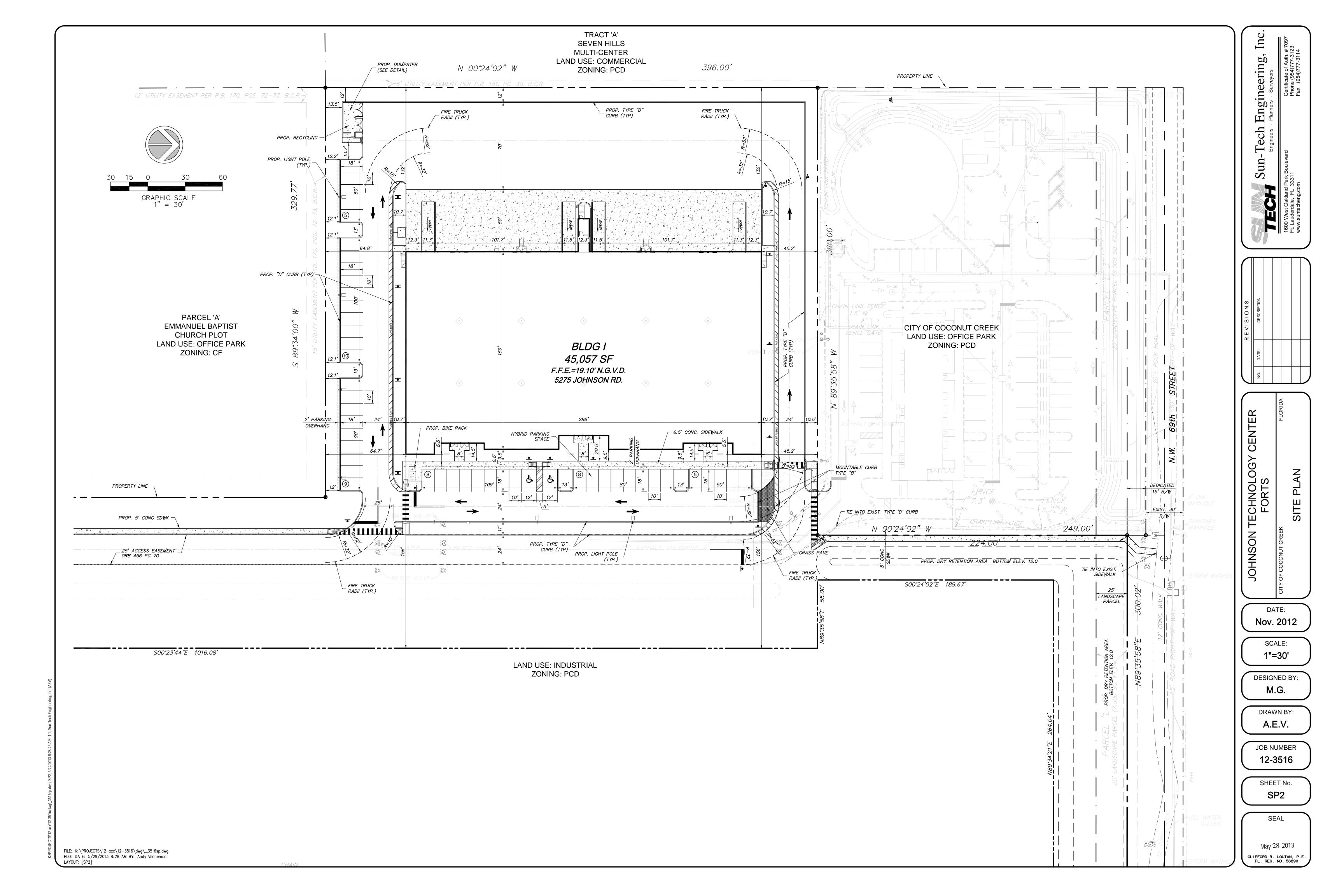
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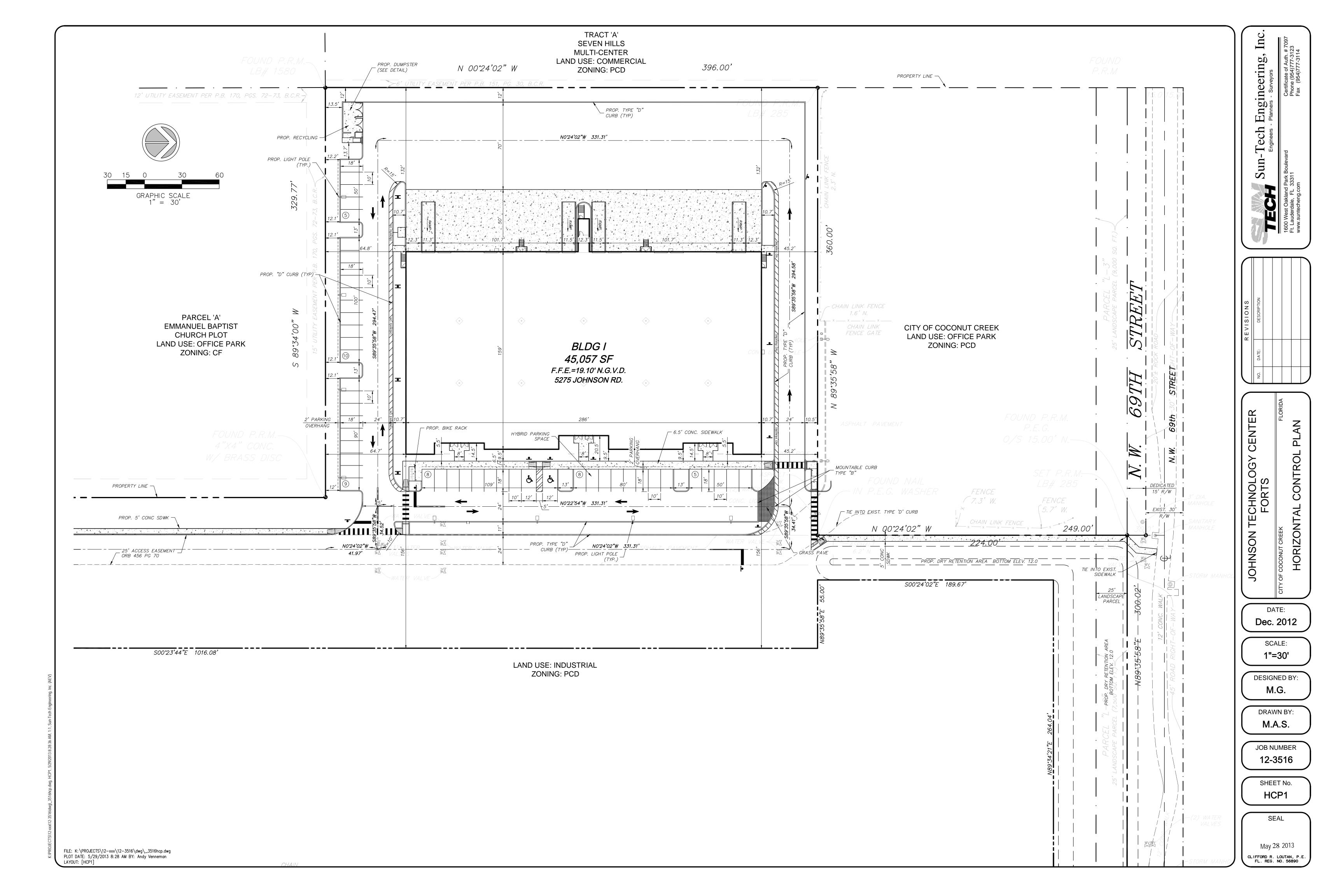
PROJECT NO. 12-3516
DESIGN DATE: OCT 2012

May 28 2013

CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890







THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CITY OF COCONUT CREEK AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:

- CLEARING AND FILLING.
- STORM DRAINAGE SYSTEM LAMPING.
- SUBGRADE (PROCTORS AND DENSITY TESTS SHALL BE APPROVED PRIOR TO THE PLACEMENT OF LIMEROCK).

LIMEROCK BASE (PROCTORS AND DENSITY TESTS AND AS-BUILTS MUST BE SUBMITTED WITH A CERTIFIED LETTER FROM THE ENGINEER OF RECORD INDICATING THEY CONFORM WITH THE APPROVED PLAN PRIOR TO THE PLACEMENT OF ASPHALT. 5. ASPHALTIC CONCRETE.

- THE CONTRACTOR SHALL CONTACT THE ABOVE AGENCIES FOR INSPECTIONS
- PRESSURE TESTING
- FILLING/PIGGING/FLUSHING TIE-INS/DISINFECTION/SWABBING/VISUAL/BACTERIOLOGICAL SAMPLES B. WASTEWATER:
- PRESSURE TESTING/FLUSHING SANITARY SEWER LAMPING MANHOLE PAINTING LIFT STATION START-UPS
- C. ROADWAYS: SUBGRADE INSPECTIONS
- BASEROCK INSPECTIONS DENSITIES D. STORM SEWER
- LAMPING STRUCTURE INSPECTIONS
- E. WALK THROUGH: PRELIMINARY/FINAL

WATER AND SEWER SEPARATION NOTES:

SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS 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 SANITARY SEWERS & GRAVITY SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE. THE GRAVITY SEWER SHALL BE DUCTILE IRON PIPE (DIP) AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) SEPARATION OF 10 FEFT BETWEEN ANY TWO JOINTS, ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT ALL CROSSINGS. MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND FORCE MAIN.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES

VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING

A MINIMUM 10 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 10 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 18 INCHES

ALL DIP SHALL BE CLASS 51 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18" IN PARALLEL INSTALLATION, THE WATER MAINS SHALL BE CONSTRUCTED OF D.I.P. AND THE GRAVITY SEWER SHALL BE CONSTRUCTED OF PVC SDR-26 OR C-900 WITH A MINIMUM VERTICAL

WATER NOTES:

ABOVE THE TOP OF THE SEWER.

ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO STANDARDS OF THE CITY OF COCONUT CREEK, NO PHYSICAL CONNECTION OF NEW WATER MAINS TO ACTIVATE WATER IAINS SHALL BE MADE UNTIL SUCH TIME THAT THE NEW MAINS ARE CONFIRMED TO BE BACTERIOLOGICALLY SAFE AND THE HEALTH DEPARTMENT RELEASE HAS BEEN OBTAINED. EMPORARY CONNECTIONS OF NEW MAINS TO ACTIVE MAINS FOR THE PURPOSE FILLING AND FLUSHING SHALL BE MADE BY A METHOD DEEMED ACCEPTABLE TO THE

ALL WATER MAINS SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE COMPRESSION TYPE BELL AND SPIGOT JOINTS. THE WATER SYSTEM SHALL BE HYDROSTATICALLY PRESSURE TESTED AND DISINFECTED PER AWWA/ANSI C651/05 AND TESTED FOR A PERIOD OF 2 HOURS AT NOT LESS THAN 150 PSI IN ACCORDANCE WITH ANSI/AWWA STANDARD C600-05 WITH AN ALLOWABLE LEAKAGE AS DETERMINED BY THE FOLLOWING FORMULA:

L = ALLOWABLE LEAKAGE IN GALLONS/HOUR S = PIPE LENGTH IN FEET

D = NOMINAL DIAMETER OF PIPE IN INCHES P = AVERAGE TEST PRESSURE IN PSI

TEST PRESSURE SHALL NOT VARY MORE THAN 5 P.S.I. THROUGHOUT THE TEST REPUMPING OF LINE DURING PRESSURE TEST IS NOT ALLOWED. IF RESTRAINT JOINT PIPE IS SPECIFIED ON THE PLANS IT SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF THE PIPE MANUFACTURER AND THE CITY OF COCONUT CREEK. MAXIMUM TEST LENGTH HALL BE LESS THAN OR EQUAL TO 2000 FT. REPUMPING OF LINE DURING PRESSURE

TEST IS NOT ALLOWED. ALL PIPE SHALL BE SUITABLE FOR USE AS A PRESSURE CONDUIT. PROVISIONS MUST BE MADE FOR EXPANSION AND CONTRACTION AT EACH JOINT WITH AN ELASTOMERIC RING. THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH A PROPERTY OF THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH A PROPERTY OF THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH A PROPERTY OF THE BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH AN ELASTOMERIC RING. BELL SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH AN ELASTOMERIC RING WHICH MEETS THE REQUIREMENTS OF ASTM F-477 STANDARD SPECIFICATIONS FOR ELASTOMERIC SEALS (GASKETS FOR JOINTING PLASTIC PIPE). THE WALL THICKNESS IN HE BELL SECTION SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3139.

CARE SHALL BE TAKEN DURING THE TRANSPORTING OF THE PIPE TO INSURE THAT THE BINDING AND TIE DOWN METHODS DO NOT DAMAGE OR DEFLECT THE PIPE IN ANY MANNER. PIPE BENT, DEFLECTED, OR OTHERWISE DAMAGED DURING SHIPPING WILL BE

D.I.P. MAINS SHALL BE LAID WITH 30" CLEAR COVER.

FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON PRESSURE CLASS 350 OR THICKNESS CLASS 51THROUGH 12" AND CLASS 350 IN SIZES 16" AND LARGER. ALL FITTINGS SHALL BE CEMENT LINED AND SEALED THE SAME AS PIPE IN ACCORDANCE

ALL WATER MAINS SHALL HAVE CONTINUOUS DETECTOR TAPE 18 INCHES BELOW FINAL GRADE. DETECTOR TAPE SHALL HAVE BLUE SIDE—UP. AN EXTRA 4 FEET OF WIRE SHALL BE PROVIDED AT ALL BLOWOFFS AND FIRE HYDRANTS, ETC. THE WIRES SHALL E LAID CLEAR OF VALVES. THE WIRES SHALL BE TESTED FOR CONDUCTIVITY AT THE

DUCTILE IRON PIPE (DIP): SHALL CONFORM TO ANSI/AWWA C151/A21.51-02. MINIMUM THICKNESS CLASS SHALL BE CLASS 51 DUCTILE IRON. PUSH-ON JOINTS SHALL CONFORM TO ANSI/AWWA C111/A21.11-00. GASKETS SHALL BE NEOPRENE. THE LINING SHALL BE CEMENT MORTAR CONFORMING TO ANSI/AWWAC104/A21.4-03 AND OUTSIDE COATING OF EITHER COAL TAR EPOXY OR ASPHALT SHALL BE APPLIED. POLYETHYLENE WRAP SHALL BE INSTALLED WHERE REQUIRED. ALL WATER MAINS 12" OR ABOVE MUST

ALL WATER MAINS SHALL BE BEDDED AND BACKFILLED PER STANDARD TRENCH DETAIL. P.V.C. AND D.I.P. NOT TO BE DEFLECTED MORE THAN ONE-HALF OF MANUFACTURER'S

BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH AWWA C-651-05. MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL BE AS FOLLOWS:

BRANCH MAINS: EVERY 1000 FT. ISOLATED MAINS: LESS THAN 1000 FT: 2 SAMPLE POINTS GREATER THAN 1000 FT.:

POLYETHYLENE ENCASEMENT/WRAP SHALL BE INSTALLED ON ALL IRON PIPES INCLUDING VALVES, FITTINGS, SLEEVEŚ, HYDRANTS, ETC. POLYWRAP SHALL BE INSTALLED IN ACCORDANCE WITH THE MINIMUM ANSI/AWWA C105/A21.5-05 STANDARDS. DUCTILE IRON WATER MAIN SEALCOAT SHALL BE COAL TAR EPOXY OR ASPHALT. JOINTS SHALL BE PUSH-ON DUCTILE IRON AND RESTRAINED USING TR-FLEX U.S. PIPE OR FLEX RING BY AMERICAN PIPE.

CITY TO BE ADVISED IN WRITING AT LEAST 48 HOURS PRIOR TO THE FOLLOWING: WET CONNECTIONS PRESSURE TESTS

FILLING/FLUSHING CHI ORINATION

BACTERIOLOGICAL SAMPLES

PIPE MARKINGS:

ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3. F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL ILUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE

LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

FIRE HYDRANTS:

" PUMPER NOZZLE.

ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA/ANSI STANDARD C502-05 AND THE FOLLOWING DESIGN STANDARDS: THE WATER DISTRIBUTION MAINS AND FIRE HYDRANTS SHALL BE INSTALLED, ACCEPTED, COMPLETED AND IN SERVICE PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE FIRE HYDRANTS SHALL BE OF THE COMPRESSION TYPE, OPENING AGAINST THE PRESSURE AND CLOSING WITH THE LINE PRESSURE WITH A 5 1/4 " VALVE OPENING. THE HYDRANT SHALL BE EQUIPPED WITH 2 - 2 1/2 " HOSE NOZZLES AND 1 - 4 1/2

FIRE HYDRANTS SHALL BE FURNISHED WITH A SEALED OIL OR GREASE RESERVOIR LOCATED IN THE BONNET SO THAT ALL THREADED AND BEARING SURFACES ARE AUTOMATICALLY LUBRICATED WHEN THE HYDRANT IS OPERATED. THE HYDRANT WILL BE DESIGNED FOR DISASSEMBLY BY USE OF A SHORT DISASSEMBLY WRENCH OR THE HYDRANT SHOE SHALL HAVE INTEGRAL CAST TIE BACK LUGS ON THE MAIN VALVE TO PERMIT THE MAIN VALVE ASSEMBLY AND VALVE SEAT TO BE REMOVED WITHOUT DIGGING EARTH OR DISASSEMBLING THE HYDRANT BARREL

FIRE HYDRANTS SHALL BE FURNISHED WITH A BREAKABLE FEATURE THAT WILL BREAK CLEANLY UPON IMPACT. THIS SHALL CONSIST OF A TWO PART BREAKABLE SAFETY FLANGE WITH A BREAKABLE STEM COUPLING. THE UPPER AND LOWER BARRELS SHALL BE FLUTED AND RIBBED ABOVE AND BELOW THE SAFETY FLANGE OR HAVE AN EXTRA STRENGTH LOWER BARREL.

THE FIRE HYDRANT INTERNAL VALVE SHALL BE 5 1/4" MINIMUM. THE PENTAGONAL OPERATING NUTS AND THE CAP NUTS SHALL BE 1 1/2" POINT TO FLAT. DRAIN VALVE DUTLETS FOR THE HYDRANTS SHALL BE PLUGGED OR OMITTED. THE HYDRANTS SHALL OPEN COUNTER CLOCKWISE AND THE DIRECTION OF OPENING SHALL BE CAST ON THE TOP. THE BURY LENGTH, MEASURED FROM THE BOTTOM OF THE CONNECTING PIPE TO HE GROUND LINE AT THE HYDRANT SHALL BE THREE FEET SIX INCHES (42") MINIMUM OR AS REQUIRED BY PLAN

THE HYDRANT SHALL BE EQUIPPED WITH A 6" MINIMUM MECHANICAL JOINT BASE INLET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. BONNETS OF THE FIRE HYDRANTS WILL BE COLOR CODED BY THE INSTALLING CONTRACTOR IN ACCORDANCE TO THE ABOVE SPECIFICATIONS. FIRE DEPARTMENT PERSONNEL ARE REQUIRED TO WITNESS THE FLOW TESTS. THE FIRE AND ENGINEERING DEPARTMENT PERSONNEL WILL BE REQUIRED TO WITNESS THE TESTING. RESULTS FROM THE FLOW TEST SHOULD BE DOCUMENTED BY THE CONTRACTOR OF RECORD AND TO

THE CITY OF COCONUT CREEK FIRE AND ENGINEERING DEPARTMENTS.

FIRE HYDRANTS SHALL BE LOCATED NO LESS THAN 5 FEET AND NO MORE THAN 10 FEET FROM THE EDGE OF THE PAVEMENT OF THE ADJACENT ROADWAY. NO LESS THAN 5 FEET FROM ANY PHYSICAL FEATURE WHICH MAY OBSTRUCT ACCESS OR VIEW OF ANY HYDRANT UNLESS OTHERWISE APPROVED BY CMPUD. GUARD POSTS AROUND FIRE HYDRANTS ARE REQUIRED WHEN HYDRANTS ARE PLACED WITHIN 6 FEET OF ALL DRIVEWAYS, TURN RADIUS, OR PARKING AREAS. THE THE HYDRANT SHALL RECIEVE FACTORY COAT OF EPOXY TRAFFIC (YELLOW) WITH A 40 MIL DFT.

SANITARY SEWER:

UNLESS OTHERWISE NOTED OR APPROVED, ALL GRAVITY MAINS AND SERVICES SHALL BE JNPLASTICIZED POLYVINYL CHLORIDE (PVC) NON PRESSURE PIPE CONFORMING TO ASTM D3034 AND SDR 26 WITH INTEGRAL WALL BELL AND SPIGOT JOINTS FOR PUSH-ON RUBBER GASKET TYPE JOINT SEALS CONFORMING TO ASTM D1869. PVC FITTINGS SHALL BE OF MONOLITHIC CONSTRUCTION OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE BEING USED. NO SOLVENT WELDS OR THREADED JOINTS WILL BE PERMITTED. ALL JOINTS SHALL BE COMPRESSION GASKET TYPE. THE JOINING OF PIPE ON THE JOB SHALL BE DONE IN STRICT ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTRUCTIONS AND SHALL BE DONE ENTIRELY IN THE TRENCH UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONNECTION OF PVC PIPE TO MANHOLES SHALL BE MADE WITH SCH-40 SAND COLLAR MANHOLE COUPLINGS CORRESPONDING TO THE SIZE AND TYPE OF SEWER PIPE OR OTHER ADAPTERS AS MAY BE APPROVED BY THE UTILITY. INFLUENT AND EFFLUENT SEWERS SHALL BE GROUTED IN PLACE USING A TYPE II WATER-PROOF, EXPANDING GROUT ACCEPTABLE TO THE ENGINEER. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT. REFER TO GENERAL NOTES FOR NON SHRINK

A FLOW CHANNEL SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM,

LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.

OUTSIDE DROP CONNECTIONS WILL BE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN PIPE INVERTS EXCEEDS TWO FEET (2'). DROP CONNECTIONS, WHERE REQUIRED, SHALL BE CAST MONOLITHICALLY WITH THE MANHOLE ELEMENTS AS SHOWN ON DETAILS. THE LID AND FRAME SHALL BE CAST OF CLOSE-GROUND GREY IRON CONFORMING TO ASTM A-48, CLASS 30 AND SHALL BE OF UNIFORM QUALITY, FREE OF BLOW HOLES POROSITY, CRACKS, AND OTHER OBVIOUS VISUAL DEFECTS. THE COMBINED WEIGHT OF THE FRAME AND LID SHALL NOT BE LESS THAN 420 POUNDS. AND THE LID SHALL WEIGHT A MINIMUM OF 160 POUNDS. THE SEATING SURFACES BETWEEN FRAMES AND COVERS SHALL BE MACHINED TO FIT TRUE. NO PLUGGING OR FILLING WILL BE ALLOWED. CASTING PATTERNS SHALL CONFORM TO THOSE DESIGNATED BY THE CITY.

THE LID SHALL HAVE THE WORDS "CITY OF COCONUT CREEK SANITARY SEWER" CAST IN ALL MANHOLE COVERS. CASTINGS SHALL BE CLEANED AND COATED WITH A COAL TAR PITCH VARNISH WHICH IS TOUGH WHEN COLD BUT NOT TACKY OR BRITTLE. PICK TYPE LIFTING HOLES WILL BE CAST INTO LIDS, BUT SHALL NOT GO CLEAR THROUGH THE LID. MINIMUM COVER ON SANITARY SEWER SHALL BE 48" TO TOP OF PIPE, UNLESS OTHERWISE APPROVED. ILL LIDS SHALL BE PROVIDED WITH WATERTIGHT POLYETHYLENE MANHOLE INSERTS AS

APPROVED BY THE CITY OF COCONUT CREEK UTILITIES DEPARTMENT. TWO COATS OF KOPPERS 300-M (OR EQUAL) COATING, FIRST RED, SECOND ONE BLACK SHALL BE APPLIED TO THE THE INSIDE OF ALL MANHOLES AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION (DRY FILM THICKNESS 16 MILS). ONE COAT OF BLACK COPPER BLACK NO.775 EPOXY TAR COATING SHALL BE APPLIED TO THE OUTSIDE OF THE MANHOLE. THE INTERIOR COATS SHALL BE APPLIED AFTER SEWER LAMPING OF LINES. THE APPLICATION OF EACH COAT SHALL BE N INSPECTION AND SHALL BE SCHEDULED A MINIMUM OF 48 HOURS PRIOR

UPON COMPLETION OF THE WORK A LAMPING INSPECTION SHALL BE MADE OF THE COMPLETED SYSTEM ALONG WITH AN INFILTRATION AND EXFILTRATION TEST. AFTER ALL TESTING HAS BEEN COMPLETED, THE CONTRACTOR WILL MAKE A TELEVISION INSPECTION AT HIS EXPENSE OR MAY CHOOSE OUTSIDE AN COMPANY BEFORE THE LINES ARE ACCEPTED FOR USE AND BEFORE RELEASE OF MAINTENANCE BOND.

MANHOLE JOINTS WILL BE SEALED WITH RAMNEK OR APPROVED EQUAL AND ANTI-HYDRO CEMENT INSIDE AND OUT. ALL SANITARY SEWER GRAVITY MAINS AND SERVICES SHALL BE BEDDED AND BACKFILLED PER STANDARD TRENCH DETAIL. ILL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY MANHOLES SHALL BE PRECAST IN ACCORDANCE WITH ASTM-C-478, MINIMUM THICKNESS SHALL BE EIGHT (8) INCHES. A MINIMUM SIX (6) INCH BASE EXTENSION OUTSIDE THE WALL OF THE MANHOLE IS REQUIRED. MANHOLES SHALL NOT BE LOCATED

THE EXTERIOR OF ALL SANITARY SEWER MANHOLES SHALL BE WATERPROOFED.

PROVIDE A MINIMUM SIX (6) INCH BED OF WASHED 3/4 INCH ROCK FOR ALL SUB-AQUEOUS GRAVITY SEWER PIPES. THE INSTALLED SEWERS SHALL UNDERGO TELEVISION INSPECTION AT TWO (2) TIMES. THE FIRST SHALL BE PRIOR TO THE FINAL ACCEPTANCE BY THE CITY AND THE OTHER SHALL BE JUST PRIOR TO THE RELEASE OF THE ONE-YEAR MAINTENANCE BOND. CITY SHALL INSPECT INSIDE OF MANHOLE AFTER EACH APPLICATION/COAT OF PAINT.

ALL SUB-AQUEOUS GRAVITY SEWER PIPE.

AT OR CLOSE TO FINAL GRADE LOW POINTS.

THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION, REMOVAL, AND DISPOSAL OF ALL MATERIALS, OF WHATEVER CHARACTER WITHIN THE LIMITS OF CONSTRUCTION. ALL TOPSOIL THAT IS SUITABLE FOR LANDSCAPING OR GRASSING OPERATIONS MAY BE STOCKPILED NEARBY FOR SUCH USE IF APPROVED BY OWNER WHERE MUCK, ROCK, CLAY, OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION

CONTRACTOR TO PROVIDE A MINIMUM SIX (6) INCH BED OF 3/4" WASHED ROCK FOR

UNSUITABLE IN ITS ORIGINAL POSITION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL IN ITS ENTIRETY AND BACKFILL WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED IN PLACE TO CONFORM TO THE REQUIRED GRADES AND SECTIONS AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON—SITE AND INCLUDE THE REMOVAL AND REPLACEMENT OF SAME IN HIS BID PRICE. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.

THE ENTIRE WIDTH OF THE RIGHT-OF-WAY AND UTILITY/DRAINAGE EASEMENTS SHALL BE COMPLETELY DEMUCKED TO THE FULL DEPTH BEFORE CONSTRUCTION BEGINS. NO MATERIAL OF CLASSES A-5, A-7, OR A-8 SHALL BE ALLOWED. ALL MATERIAL SUPPORTING THE ROADWAY SHALL BE STABILIZED TO HAVE A MINIMUM LBR OF 40. SUBGRADES SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180. WHEREVER EXCAVATIONS FOR UTILITIES ARE MADE BELOW THE GRADES INDICATED ON THE PLANS, GRANULAR MATERIAL FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL SHALL BE USED TO RESTORE THE AREA TO THE PROPER GRADE. AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE PER AASHTO T-180 AREAS TO BE COMPACTED SHALL BE MOISTENED AND COMPACTED BY EITHER ROLLING. INSTALLED, INSPECTED, TESTED AND APPROVED PRIOR TO ANY SUBGRADE TAMPING, OR ANY OTHER METHOD APPROVED BY THE ENGINEER, IN ORDER TO OBTAIN THE DESIRED DENSITY. THE ENGINEER SHALL INSPECT ALL COMPACTED AREAS PRIOR TO FURTHER CONSTRUCTION OPERATIONS.

PRIOR TO BACKFILLING AROUND STRUCTURES THE AREAS SHALL BE CLEAN OF ALL

TRASH AND DEBRIS OF ANY DESCRIPTION, UNLESS DIRECTED BY THE ENGINEER TO BE LEFT IN PLACE, SUCH AS SHEETING AND BRACING. BACKFILL SHALL BE HAND TAMPED THE EXISTING ELEVATIONS SHOWN HEREON ARE FOR THE PURPOSE OF INDICATING THE

ROUND ELEVATION ONLY AT THE POSITION SHOWN AND IN NO WAY SHOULD INDICATE

ELEVATION AT ANY POINT OTHER THAN THAT SHOWN. **DRAINAGE NOTES:**

DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE.

REINFORCED CONCRETE PIPE SHALL MEET THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 941. CONCRETE PIPE SHALL BE CLASS III OR AS SHOWN ON THE PLANS. PIPE GASKETS SHALL MEET F.D.O.T. STANDARD SPECIFICATIONS SECTION

PRIOR TO BACKFILLING THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, AND THE CITY OF COCONUT CREEK FOR INSPECTION. BOTTOM OF ALL INLETS SHALL BE 18" BELOW THE LOWEST INLET INVERT OR MINIMUM 30" FOR P.R.B. CATCH BASINS/INLETS/JUNCTION BOXES SHALL NOT BE LOCATED IN

DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY THE CITY.

UNDERGROUND UTILITIES SHALL BE COMPLETED OR SLEEVING PROVIDED BEFORE ANY LIMEROCK BASE COURSE CONSTRUCTION BEGINS. ALL PAVEMENT SUBGRADE MATERIAL SHALL HAVE AN LBR OF 40 AT 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE PER AASHTO T-180, METHOD "D" . THE ENGINEER SHALL SPECIFY THE LOCATION AND NUMBER OF DENSITY TESTS, MAXIMUM EVERY 7000 S.F. OF PAVEMENT REQUIRED OR A MIN. OF ONE DENSITY TEST OVER EVERY TRENCH. THE TEST RESULTS SHALL BE ACCEPTED BY THE ENGINEER PRIOR TO PLACEMENT OF

IF THE PLANS INDICATE A STABILIZED SUBBASE IS TO BE USED IT SHALL HAVE A MINIMUM LBR VALUE OF 40, 12" THICK COMPACTED TO A MINIMUM 98% DRY DENSITY AS PER AASHTO T-180 AND SHALL BE IN ACCORDANCE WITH F.D.O.T. SECTION 160. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER FOR APPROVAL THE MATERIAL TO BE USED FOR THE SUBBASE AND THEIR PROPORTIONS, AND ABORATORY LBR, BEFORE DELIVERY TO THE SITE. QUALITY CONTROL LBR'S MAY BE REQUIRED BY THE ENGINEER TO PROVE THE IN PLACE CONDITION.

IF THE PLANS INDICATE A LIMEROCK BASE, THE CONSTRUCTION AND THE MATERIAL FOR THE LIMEROCK BASE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION 200. THE LIMEROCK BASE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE, AASHTO T-180, METHOD "D". THE ENGINEEF SHALL SPECIFY THE LOCATION AND NUMBER OF DENSITY TESTS REQUIRED. MAXIMUM EVERY 7000 S.F. OF PAVEMENT REQUIRED OR A MIN. OF ONE DENSITY TRENCH OVER EVERY TRENCH. THE TEST RESULTS SHALL BE ACCEPTED BY THE ENGINEER PRIOR TO THE APPLICATION OF PRIME AND TACK COATS.

ALL GRADES SHOWN REFER TO FINISHED ASPHALT PAVEMENT UNLESS OTHERWISE LIMEROCK BASES SHALL BE EIGHT INCHES (8") THICK. LIMEROCK OF THE MIAMI FORMATION SHALL BE USED AND SHALL HAVE A MINIMUM CARBONATE CONTENT OF 70%, LIQUID LIMIT 35, PLASTICITY 6 AND A MINIMUM LBR OF 100. BASE MATERIAL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF MAXIMUM DENSITY

AS DETERMINED BY AASHTO T-180. PRIME COAT SHALL BE USED ON THE FINISHED ROCK BASE AND A TACK COAT IE PRIME AND TACK COAT CONSTRUCTION AND MATERIALS FOR THE PRIME AND TACK COATS SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 300. THE PRIME AND TACK COATS SHALL BE APPLIED PRIOR TO CONSTRUCTION OF THE ASPHALT SURFACE COURSE AND SHALL BE SANDED AND

ASPHALTIC CONCRETE SURFACE COURSE SHALL BE AS SHOWN ON THE PLANS. THE MATERIALS FOR THE ASPHALT CONCRETE SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 331 AND BROWARD

GAL/SY FOR LIMEROCK BASE.

ROLLED IN ACCORDANCE WITH SECTION 300. APPLICATION RATES SHALL BE 0.25

SURFACE COURSE SHALL BE 1-1/2" THICK. STAGE CONSTRUCTION WILL BE REQUIRED. STAGE I (BOTTOM COURSE) SHALL BE 3/4 " THICK TYPE S-III. STAGE II (TOP COURSE) SHALL BE 3/4 " THICK TYPE S-III. STAGE II SHALL NOT BE PLACED UNTIL ALL HOUSE CONSTRUCTION IS COMPLETED OR AS DIRECTED BY THE CITY OF COCONUT CREEK. RAISE ALL P.C.P. OR P.R.M. SHOWN ON THE PLAT TO FINAL GRADE IF THEY ARE LOCATED IN PAVEMENTS OR CONCRETE. (PER SECTION 8810.7.5 OF THE SUBDIVISION

BASE AND SUBGRADE DENSITY TESTS SHALL BE CONDUCTED FOR A MAXIMUM 7000 SQUARE FEET OF FINISHED PAVEMENT. PROCTORS SHALL BE PERFORMED ON ALL SUBGRADE AND LIMEROCK BASE MATERIAL AND SUBSEQUENT CHANGES IN MATERIAL. LBR'S, SIEVE ANALYSIS, AND DENSITIES SHALL BE SUBMITTED TO THE CITY. ALL REPAIRS TO EXISTING PAVEMENT SHALL BE SAWCUT AND THE EDGES PRIOR TO RELAYING THE ASPHALT. UTILITY PIPING OR WIRING LESS THAN FOUR (4) INCHES IN

DIAMETER REQUIRES A SCHEDULE 40 PVC CASING PIPE WITH SAND BACKFILLS UNDER PAVED AREAS ONLY. **GENERAL NOTES:**

WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TOGETHER WITH THE CITY'S MINIMUM DESIGN STANDARDS AND SPECIFICATIONS AS APPLICABLE. IF F.D.O.T. MATERIAL IS SPECIFIED, IT SHALL IMPLY THAT THEIR

ALL CONSTRUCTION, MATERIAL, INSTALLATION, AND TESTING SHALL BE IN ACCORDANC

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER PROPERTY AND SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS EXPENSE. THE ENGINEER WILL HOLD A PRE-CONSTRUCTION MEETING PRIOR TO THE START O ANY CONSTRUCTION AND INCLUDE A REPRESENTATIVE FROM THE RESPECTIVE ENGINEERING AND UTILITY DEPARTMENTS, THE CONTRACTOR, OWNER, AND OTHER

THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY; THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE "OTHER" UTILITIÉS, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY

CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED. ALL DEVIATIONS FROM PLANS ARE TO BE APPROVED BY ENGINEER IN WRITING PRIOR TO CONSTRUCTION AND FOR ALL INSPECTIONS AND TESTING. THE ENGINEER MUST BE GIVEN A MINIMUM 48 HOURS NOTICE PRIOR TO START OF CONSTRUCTION AND FOR ALL INSPECTIONS AND TESTING.

COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATIONS AND ELEVATIONS OF VALVES, SERVICES, FITTINGS, LENGTHS OF PIPE, TOP OF WATER MAIN ELEVATIONS, AND THE LIKE SHALL BE ACCURATELY RECORDED AND SUBMITTED TO THE FINGINFER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL INFORMATION SHALL BE TAKEN BY A PROFESSIONAL MAPPER AND SURVEYOR AND SHOWN ON A SEALED AS-BUILT PLAN ALONG WITH AN AUTOCAD DISK.

THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGES, DISRUPTION OF SERVICE, OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO WALL REINFORCEMENT AND THICKNESS FOR PRECAST STRUCTURES SHALL BE IN

ACCORDANCE WITH ASTM C478. MINIMUM WALL THICKNESS SHALL BE 8" AND A MINIMUM 6" BASE EXTENSION OUTSIDE OF MANHOLE WALL. MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST STRUCTURES WILL BE NON-SHRINK GROUT AND WILL NOT CAUSE LEAKAGE IN OR OUT OF THE STRUCTURES. THE MAXIMUM OPENING THROUGH WALLS FOR PIPES SHALL BE THE MAXIMUM REQUIRED OUTSIDE DIAMETER PLUS 6".

NO PIPE SHALL BE COVERED UNTIL INSPECTED AND APPROVED BY THE ENGINEER AND ALL PIPE SHALL BE LAID IN A DRY TRENCH; ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH BOTTOM SHALL BE REMOVED AND BACKFILLED WITH GRANULAR MATERIAL, IN 12" LIFTS UNTIL 1' COVER EXISTS ABOVE THE CROWN OF THE PIPE. THE REMAINING TRENCH SHALL BE BACKFILLED IN LAYERS NOT EXCEEDING 8" WITH EACH LAYER BEING COMPACTED 100%.

SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED ON THE PROJECT SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND THE RESPECTIVE ENGINEER AND UTILITY DEPARTMENTS FOR APPROVAL PRIOR TO CONSTRUCTION OR INSTALLATION. ALL ELEVATIONS REFER TO NGVD 29.

CONTRACTOR TO CONTACT SUNSHINE STATE ONE—CALL OFFICE (1-800-432-4770) AND ALL LOCAL UTILITY COMPANIES FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. EXISTING SECTION CORNERS AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE MAINTAINED BY PROFESSIONAL MAPPER AND SURVEYOR, CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO EXISTING STORM DRAIN AND/OR SANITARY SYSTEM AS A RESULT CONSTRUCTION ACTIVITIES. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.

LOCATION OF DRAINAGE AND SANITARY SEWER STRUCTURES GOVERN, ADJUST PIPE LENGTHS AS REQUIRED. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION) SHALL E USED AS THE STANDARD FOR THE SIGNAGE AND PAVEMENT MARKING REQUIREMENTS OF THE PROJECT. ALL UNDERGROUND UTILITY MAINS AND STRUCTURES, FOR WATER, SEWER, GAS IRRIGATION, DRAINAGE, TELEPHONE, POWER, CABLE TV, AND OTHERS MUST BE

ALL PERMANENT GRASS AREAS ARE TO RECEIVE A 4" MUCK BLANKET OR TOPSOIL TREATMENT.

A MINIMUM 10' SEPARATION BETWEEN ALL UTILITIES SHALL BE MAINTAINED.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFET PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT" AND THE O.S.H.A. PART "P".

THE CONTRACTOR'S MATERIALS AND TEST CERTIFICATE FOR UNDERGROUND PIPING WILL ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM CAREFULLY GRADED SUBGRADE WHICH SHALL PROVIDE UNIFORM BEARING UNDER

BASE. ALL JOINTS SHALL BE FURNISHED WATERTIGHT

ALL EXISTING CONTROL POINTS AND/OR REFERENCE MARKERS SHALL BE RAISED TO FINAL GRADE. THESE POINTS AND REFERENCE MARKERS SHALL BE LOCATED AND NOTED MINIMUM LONGITUDINAL SLOPE OF PAVEMENT SHALL BE 0.4%.

MINIMUM TRANSVERSE SLOPE OF PAVEMENT SHALL BE AT TWO PERCENT (2%) FOR ROADWAYS AND GENERALLY ONE PERCENT (1%) FOR PARKING AREAS. CONCRETE SIDEWALKS SHALL BE FOUR (4) INCHES THICK, EXCEPT AT DRIVEWAYS WHERE THEY SHALL BE SIX (6) INCHES THICK. SIDEWALK SUBGRADE SHALL BE GRUBBED, COMPLETELY DEMUCKED AND COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180.

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> DATE: Jan. 2013

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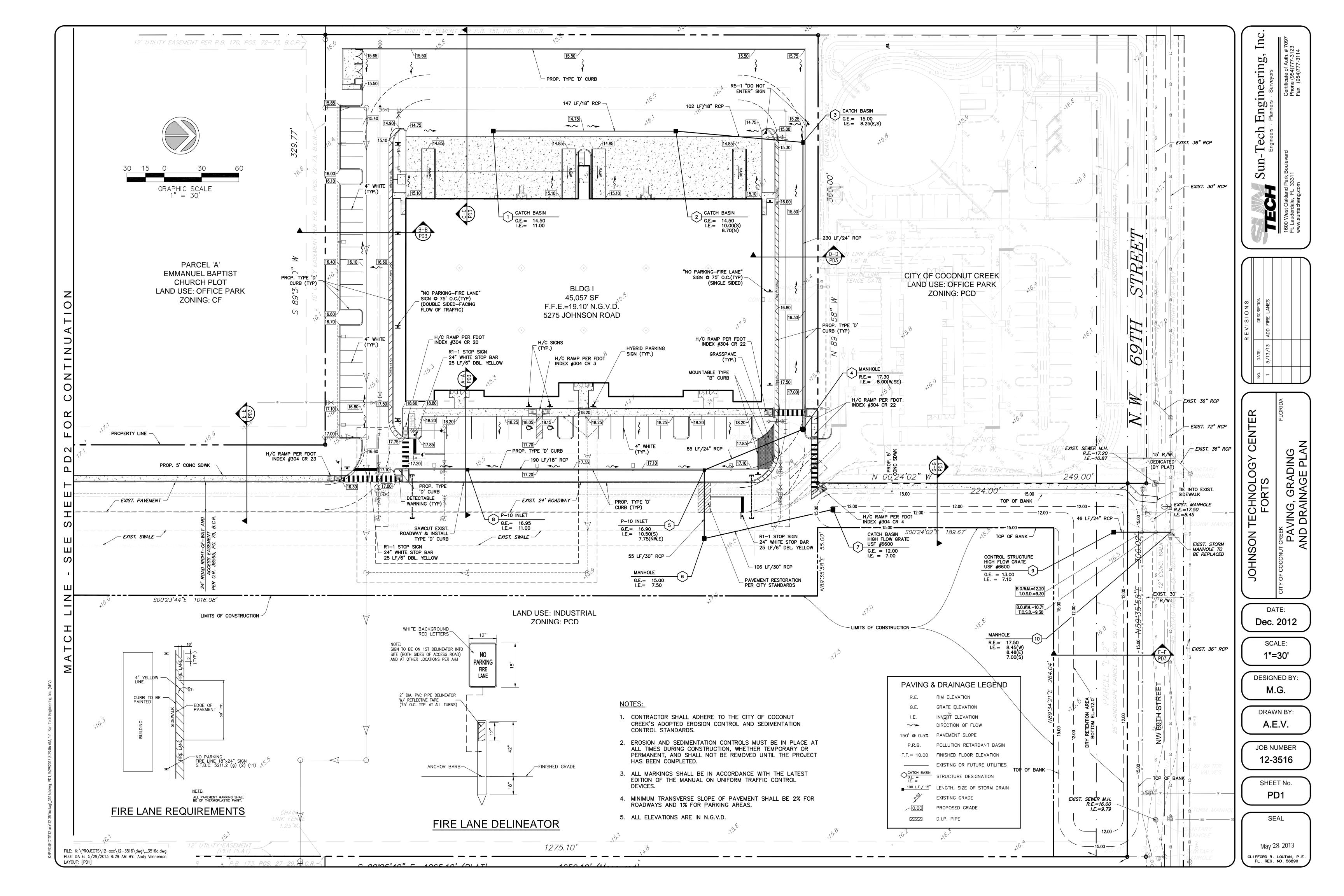
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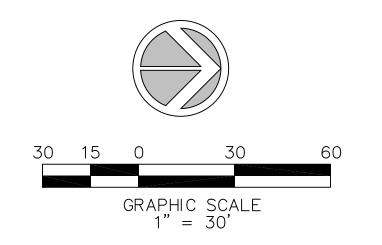
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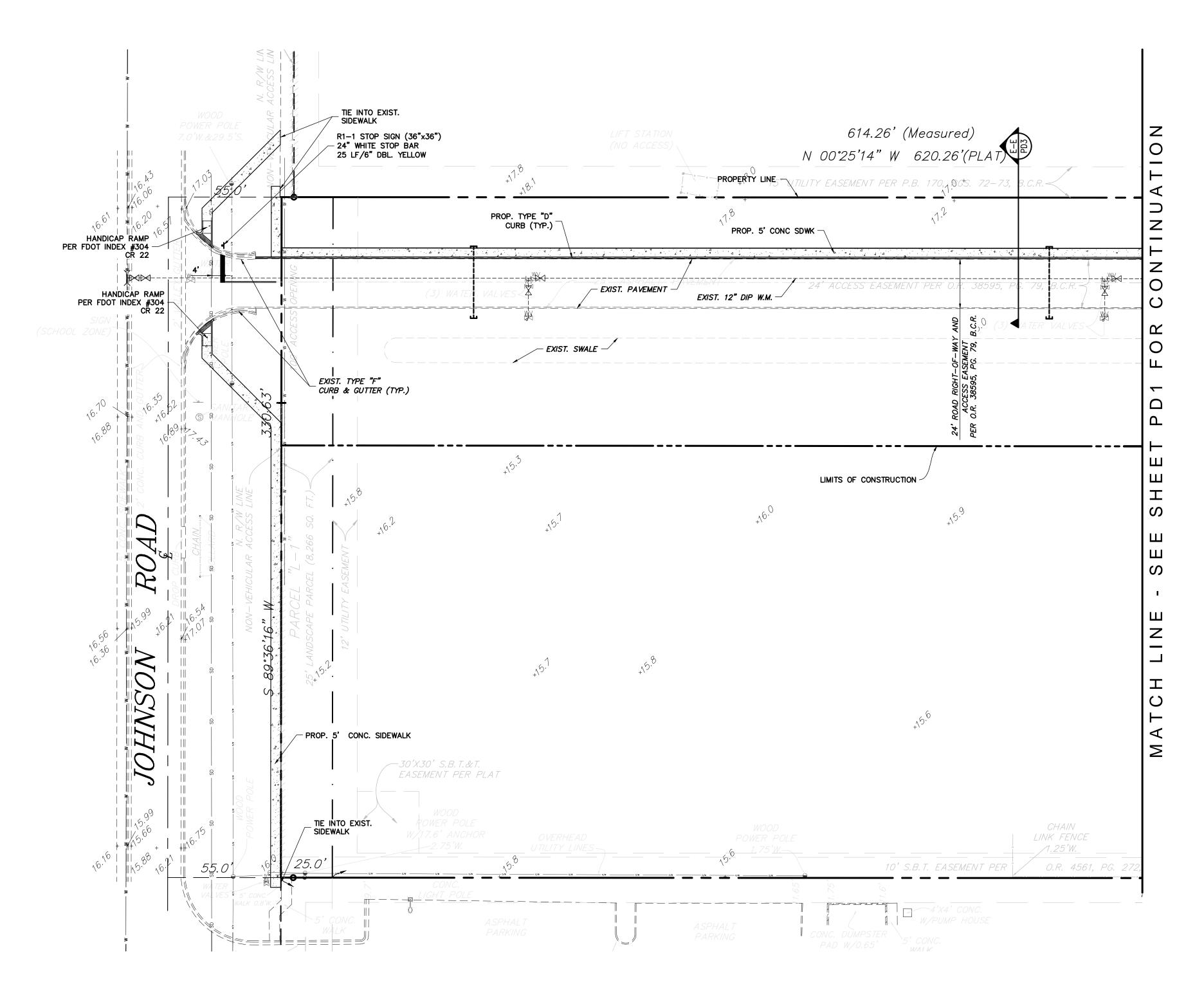
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LAYOUT: [GN1]







- 1. CONTRACTOR SHALL ADHERE TO THE CITY OF COCONUT CREEK'S ADOPTED EROSION CONTROL AND SEDIMENTATION CONTROL STANDARDS.
- 2. EROSION AND SEDIMENTATION CONTROLS MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION, WHETHER TEMPORARY OR PERMANENT, AND SHALL NOT BE REMOVED UNTIL THE PROJECT HAS BEEN COMPLETED.
- 3. ALL MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 4. MINIMUM TRANSVERSE SLOPE OF PAVEMENT SHALL BE 2% FOR ROADWAYS AND 1% FOR PARKING AREAS.
- 5. ALL ELEVATIONS ARE IN N.G.V.D.

PAVING & DRAINAGE LEGEND

RIM ELEVATION

GRATE ELEVATION INVERT ELEVATION

DIRECTION OF FLOW $\sim \sim$ 150' @ 0.5% PAVEMENT SLOPE

P.R.B. POLLUTION RETARDANT BASIN F.F.= 10.00 FINISHED FLOOR ELEVATION

----- EXISTING OR FUTURE UTILITIES

CATCH BASIN

G.E. =

I.E. =

STRUCTURE DESIGNATION 100 L.F./ 15" LENGTH, SIZE OF STORM DRAIN

EXISTING GRADE PROPOSED GRADE

D.I.P. PIPE

LAYOUT: [PD2]

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> DATE: Dec. 2012

> > SCALE: 1"=30'

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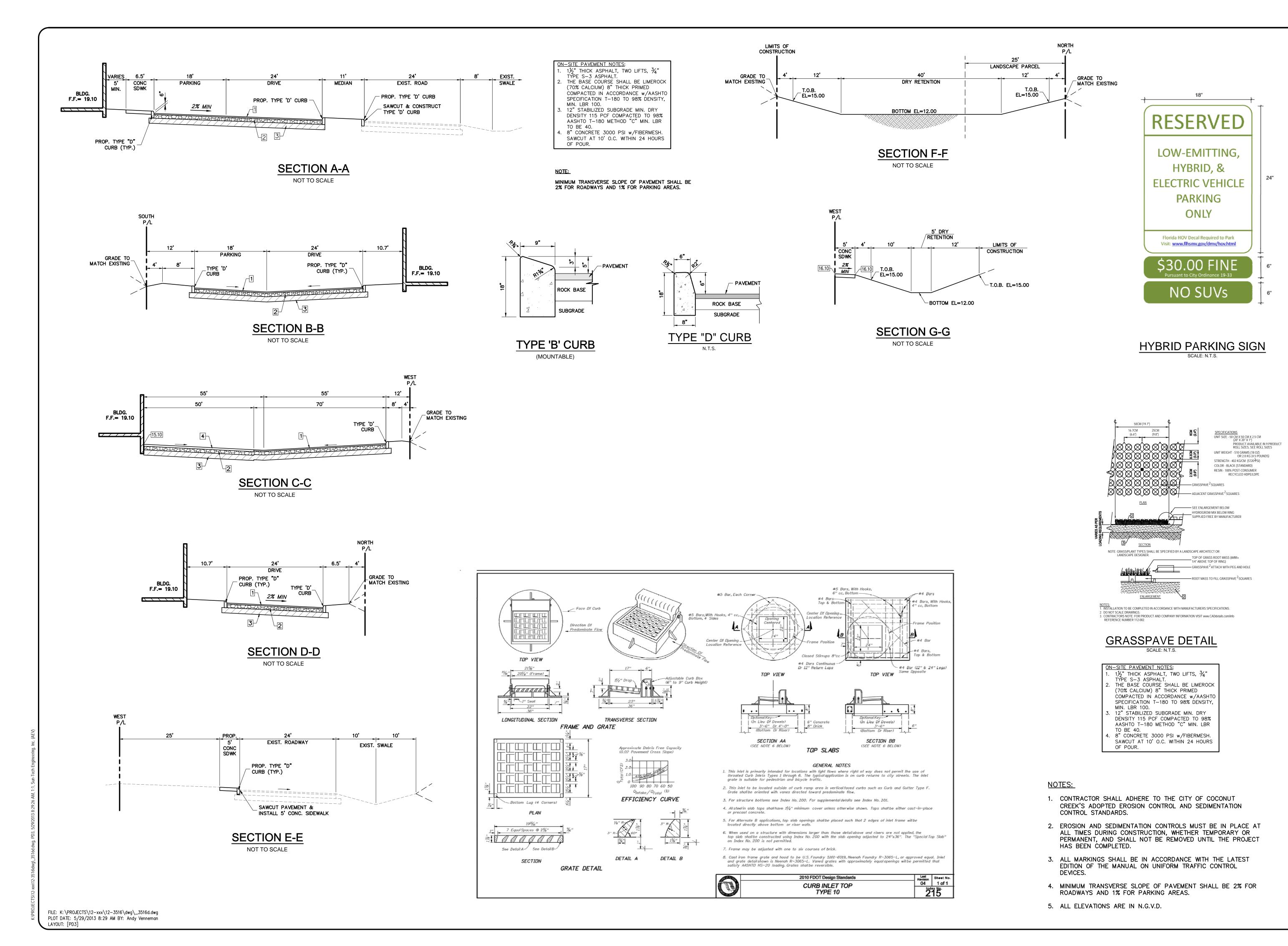
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Sun-Tech Engineering, Inc.

Engineers - Planners - Surveyors

rk Boulevard

Certificate of Auth. # 7097

Phone (954)777-3123

Fax (954)777-3114

FECH English Ft. Lauderdale, FL 33311 www.suntecheng.com

NO. DATE: DESCRIPTION

JOHNSON TECHNOLOGY CENTER
FORTS

OF COCONUT CREEK
PAVING, GRADING
AND DRAINAGE PLAN

DATE: **Dec. 2012**

SCALE: **N.T.S.**

DESIGNED BY: M.G.

DRAWN BY:

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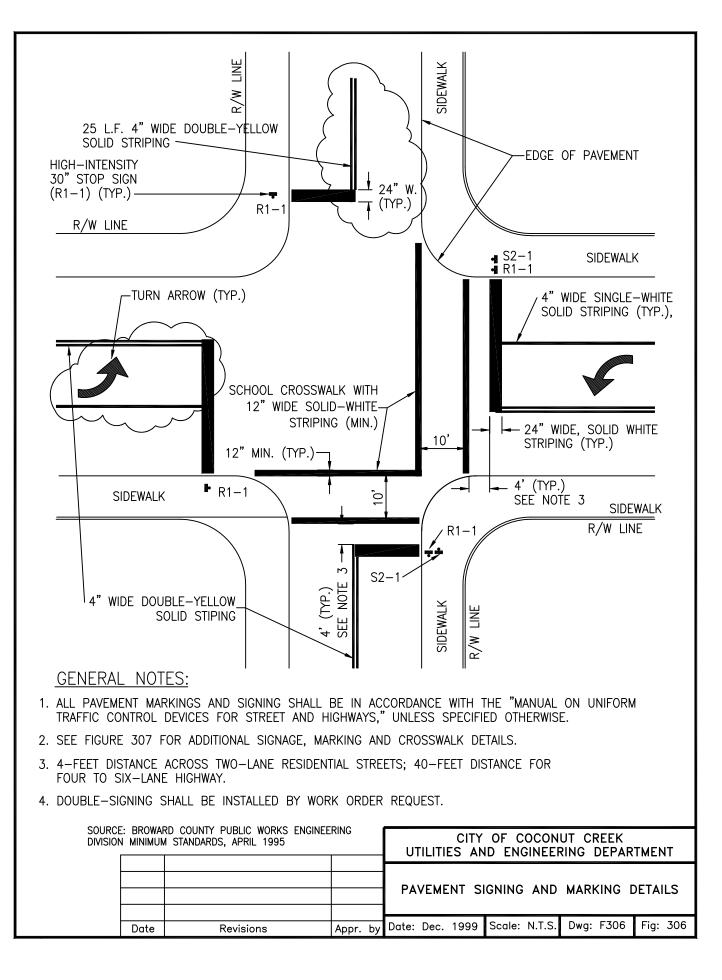
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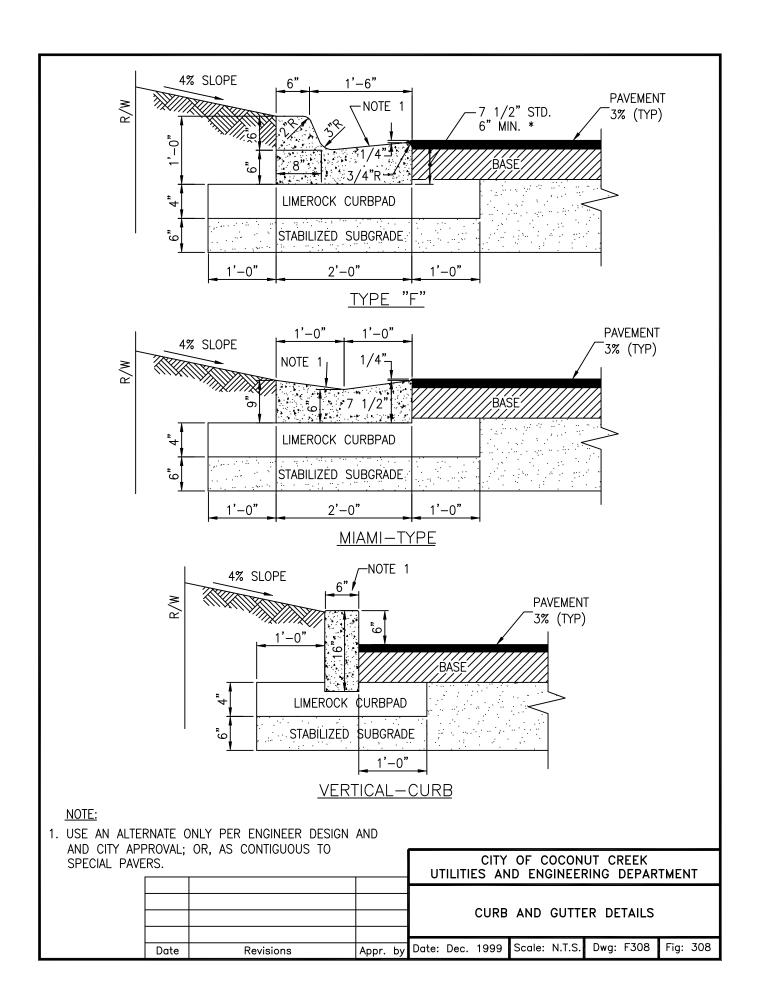
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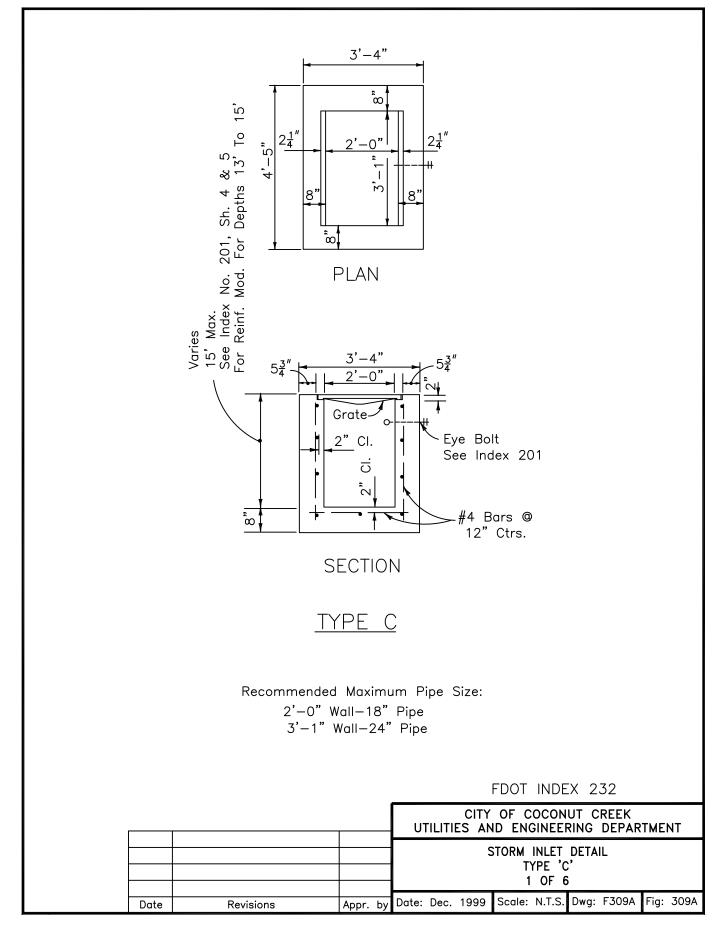
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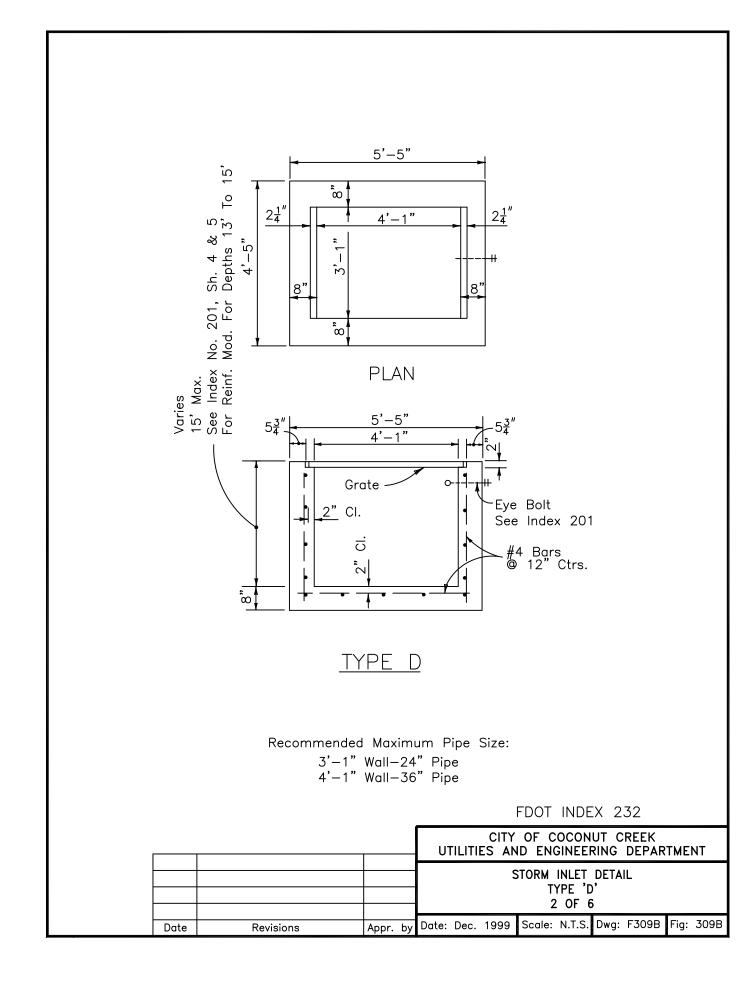
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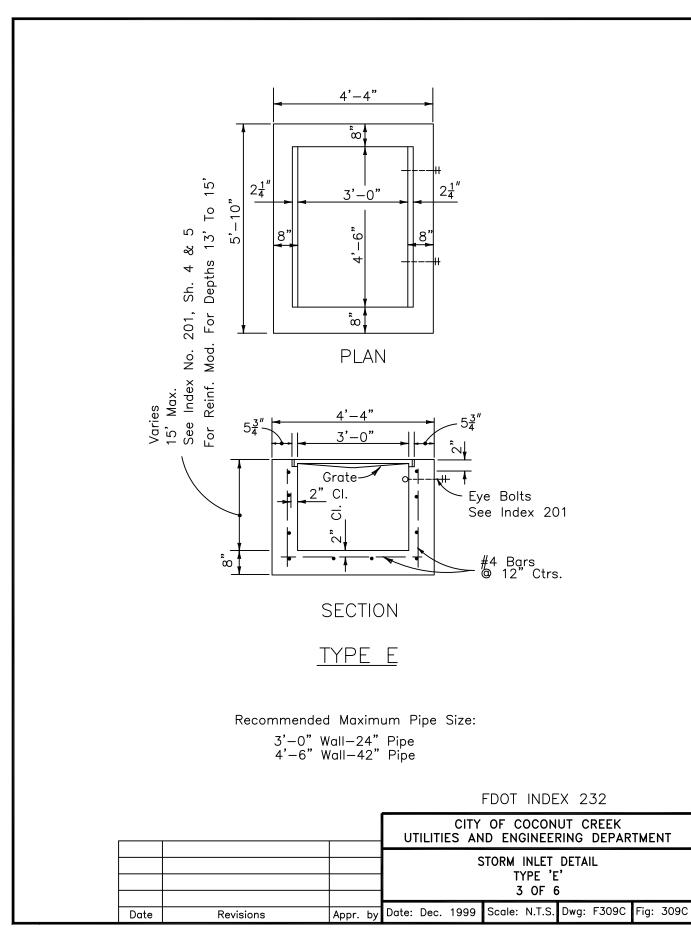
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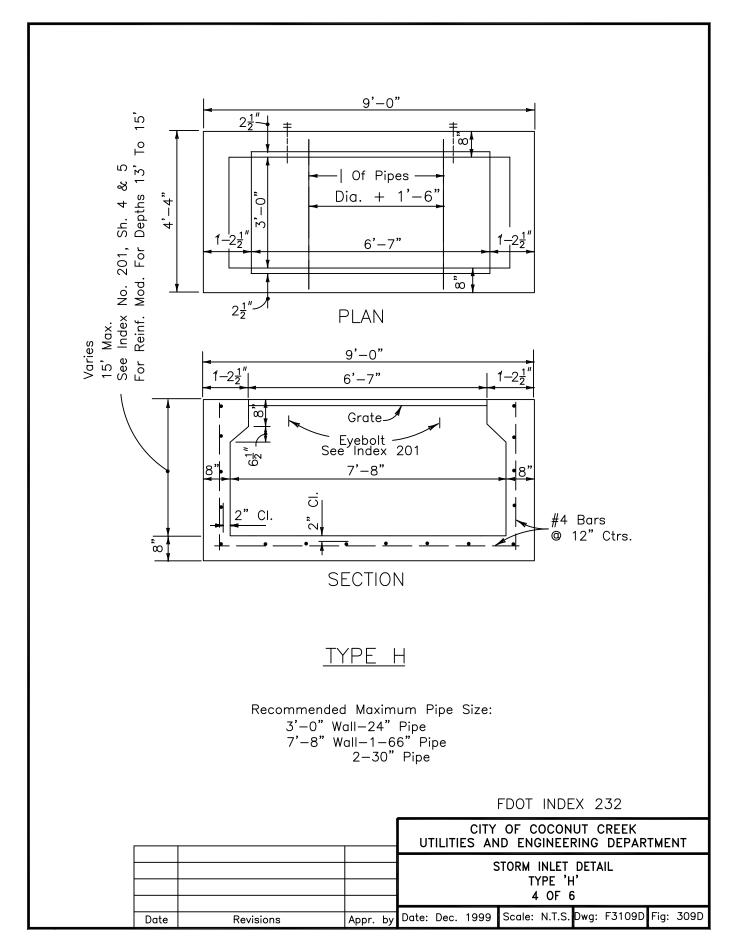


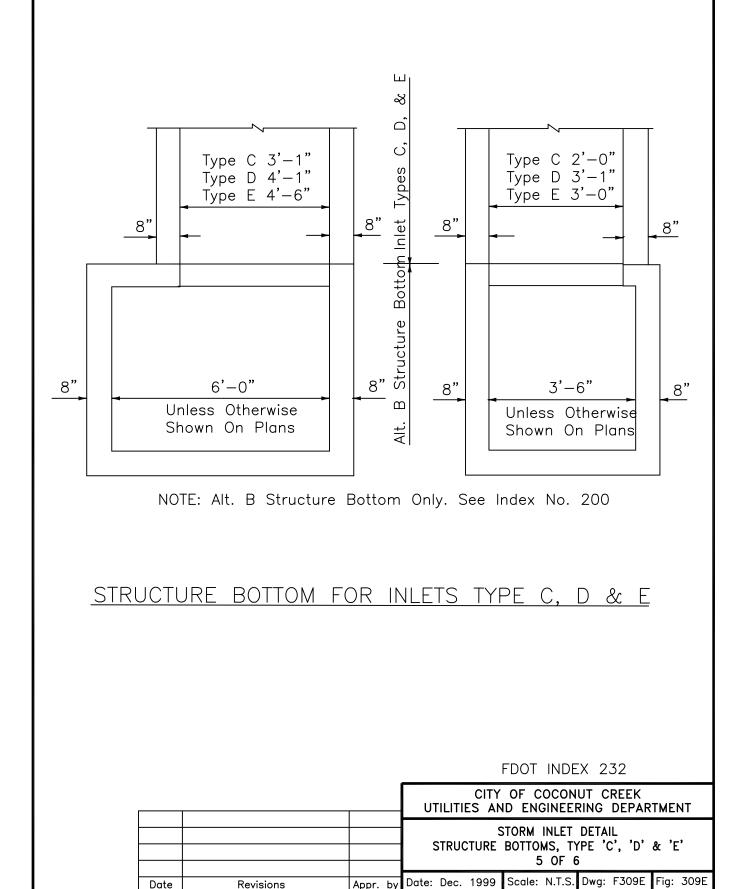


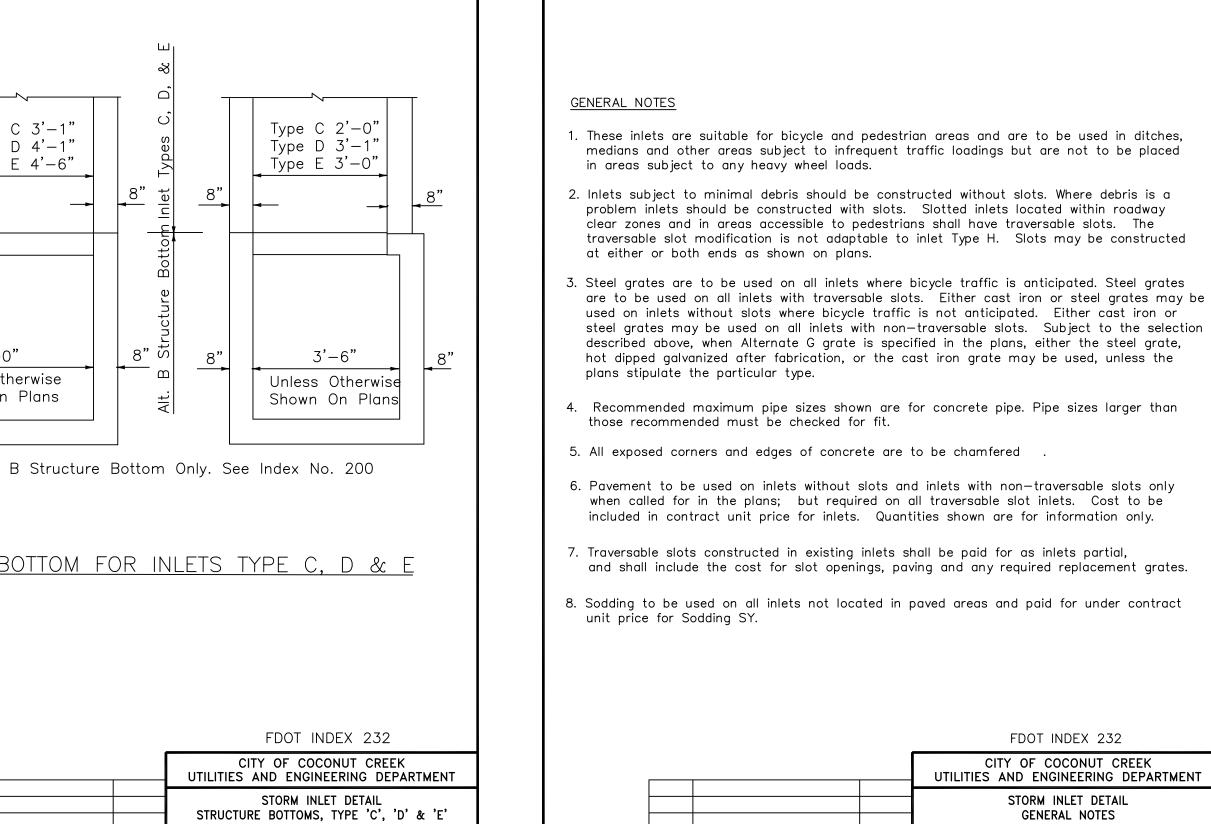












4. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than

6. Pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be

7. Traversable slots constructed in existing inlets shall be paid for as inlets partial, and shall include the cost for slot openings, paving and any required replacement grates.

8. Sodding to be used on all inlets not located in paved areas and paid for under contract

			FDOT INDEX 232		
			CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT		
			STORM INLET DETAIL GENERAL NOTES 6 OF 6		
Date	Revisions	Appr. by	5		

NOTES:

1. ALL ELEVATIONS ARE IN N.G.V.D.

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> DATE: Dec. 2012

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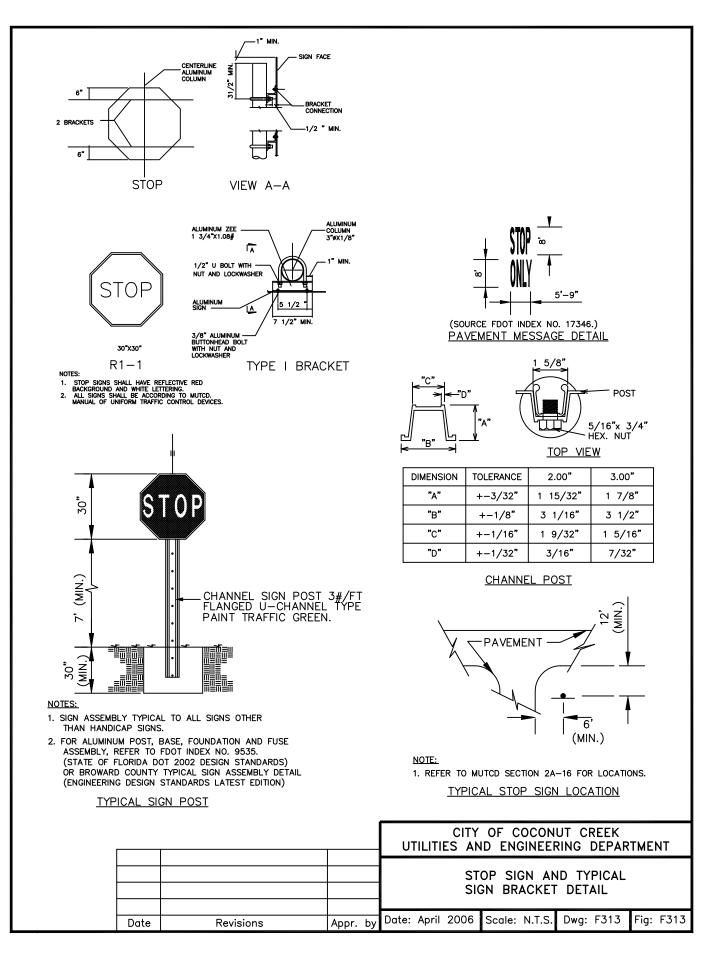
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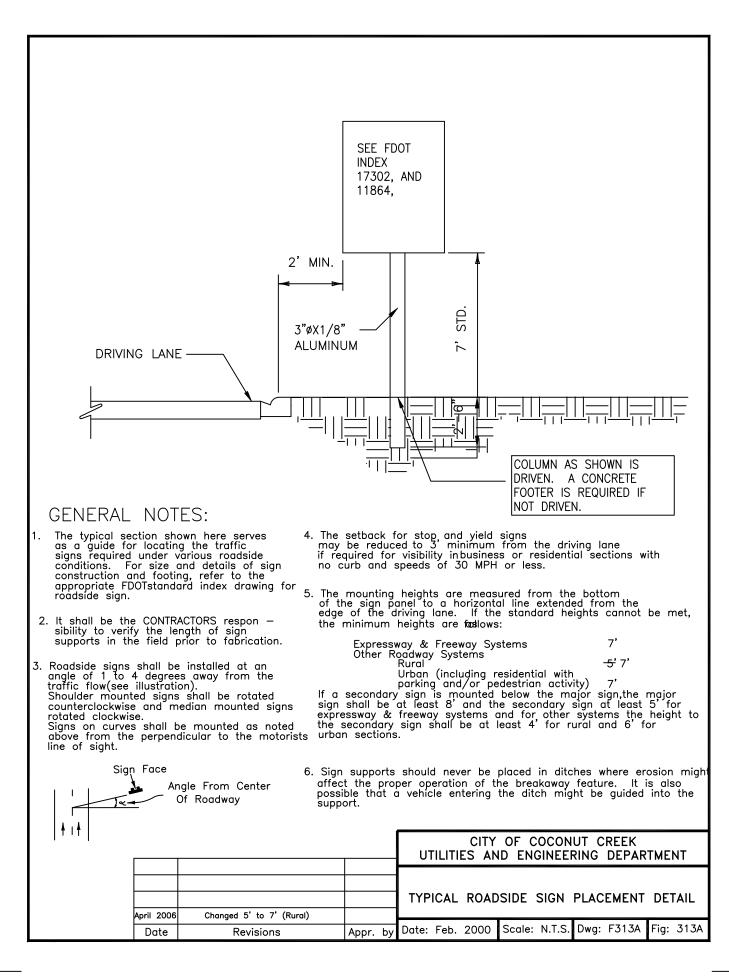
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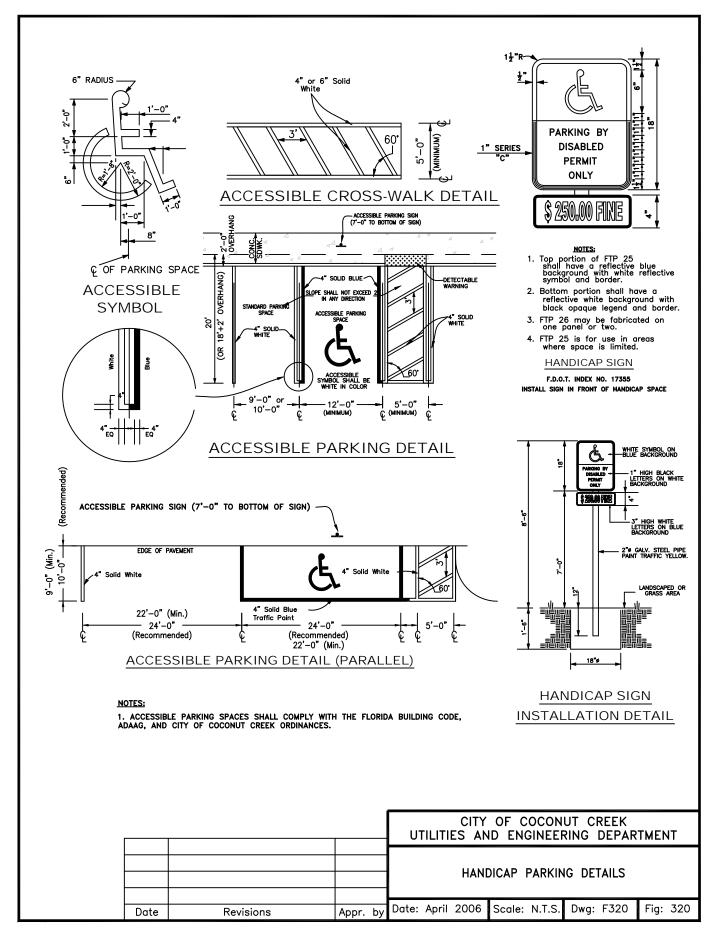
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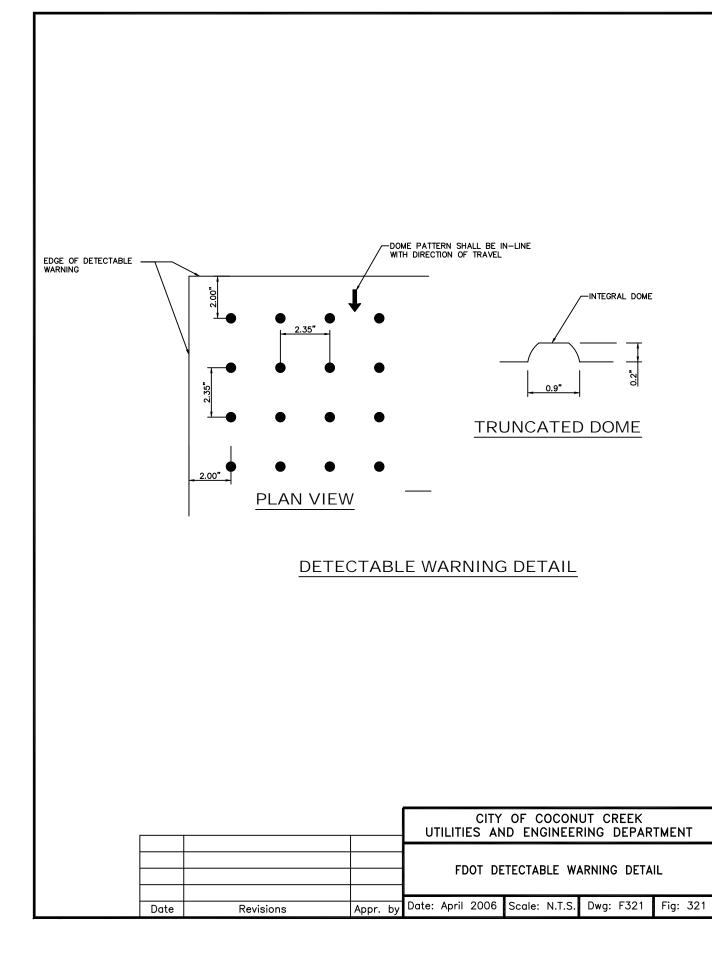
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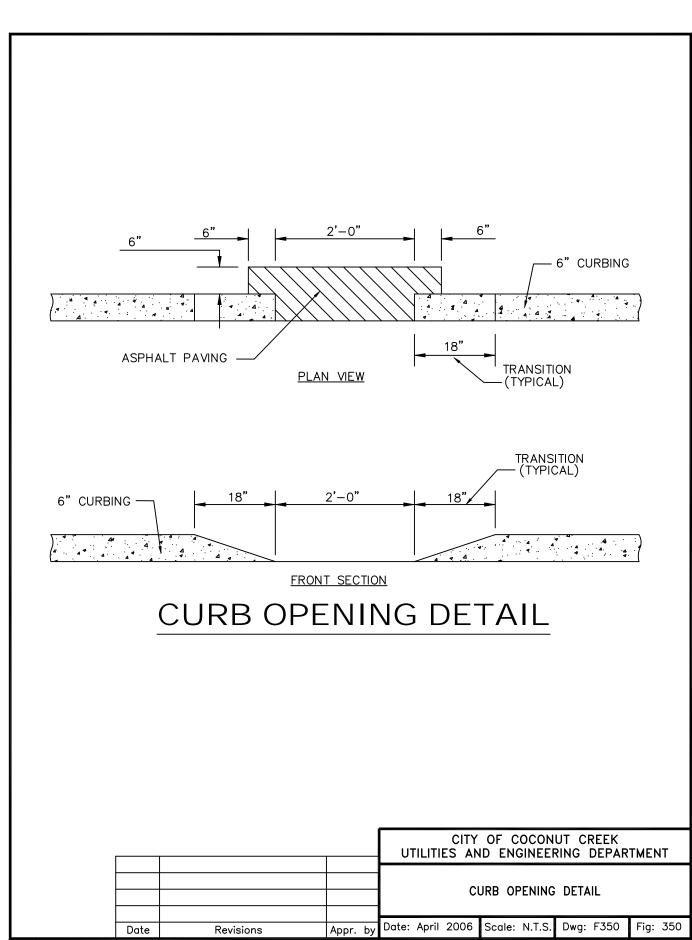
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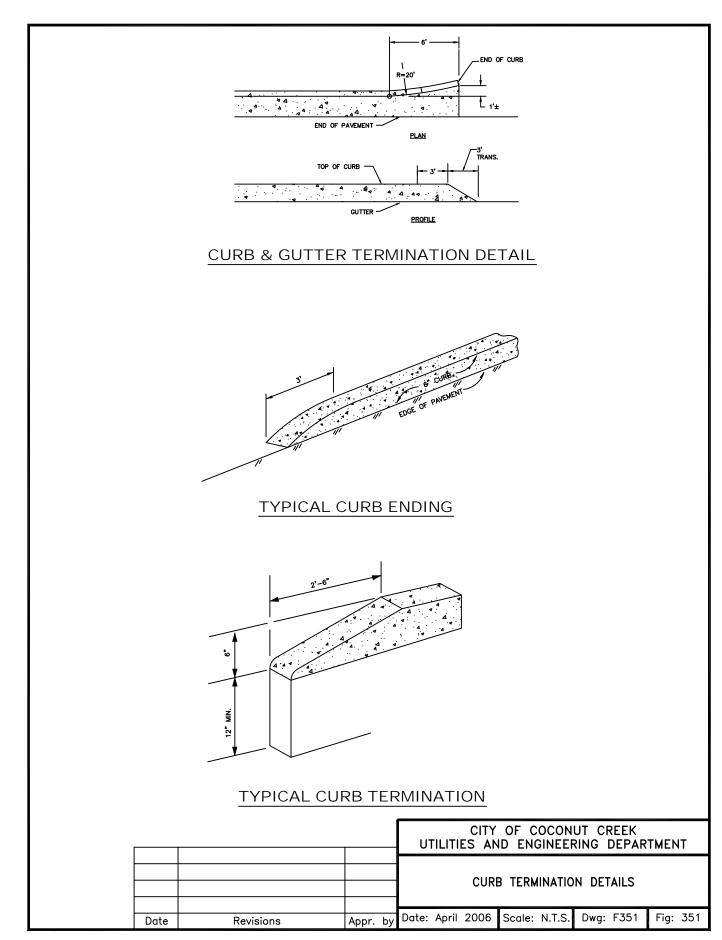
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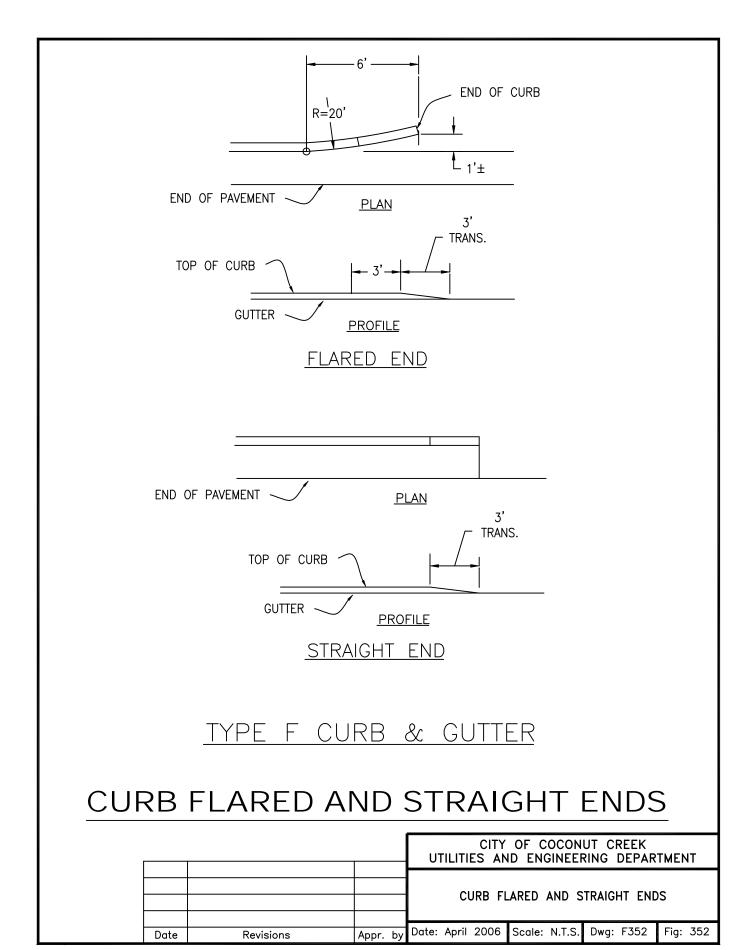
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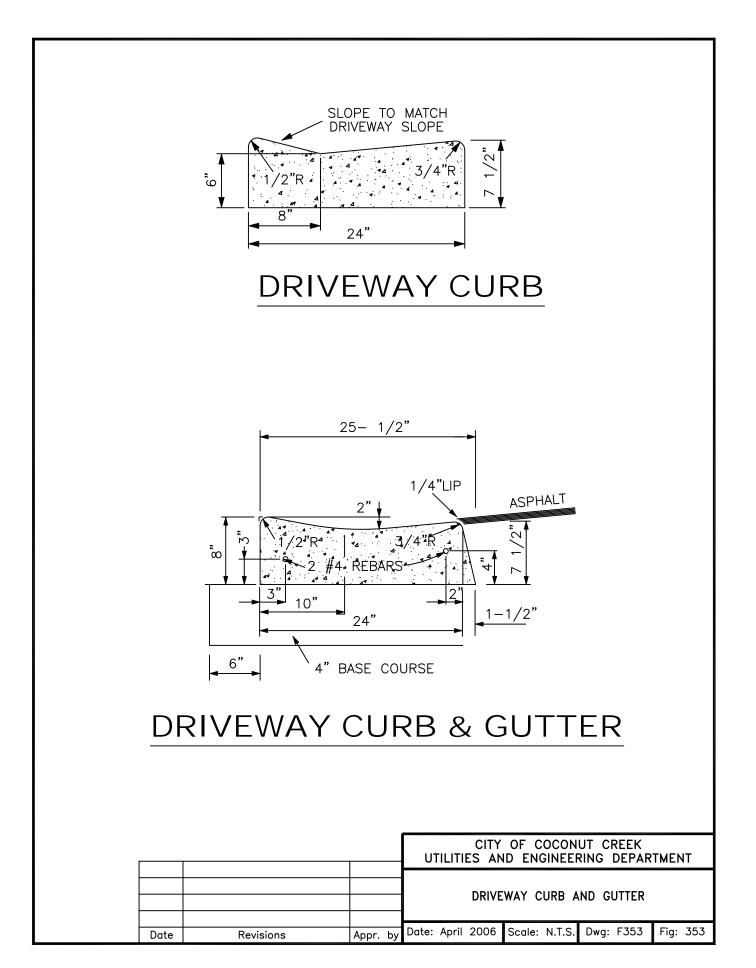
May 28 2013

CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890





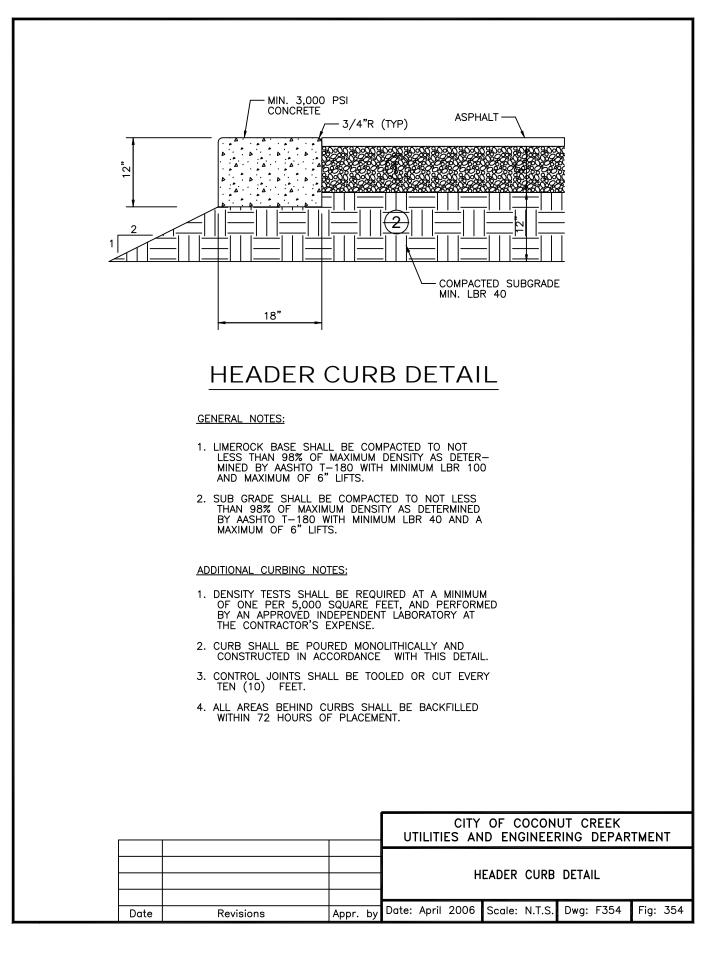


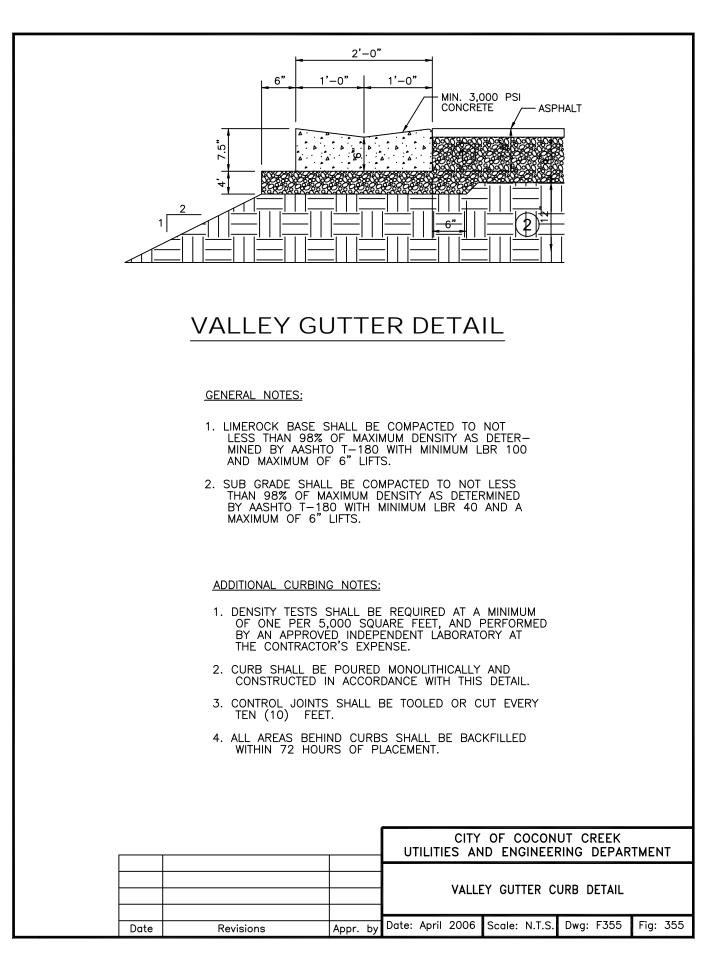


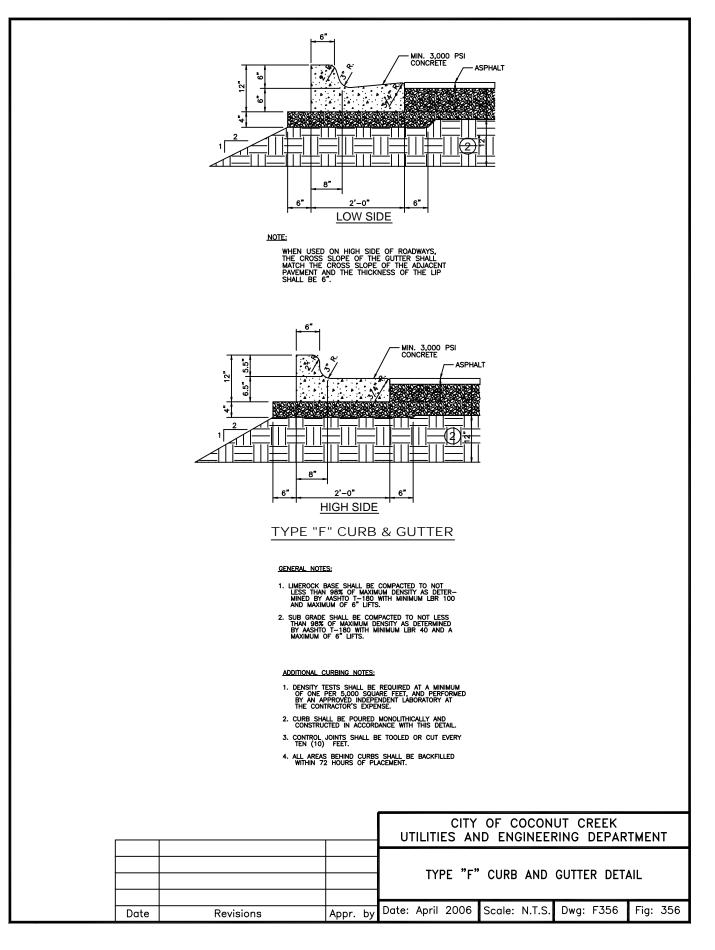
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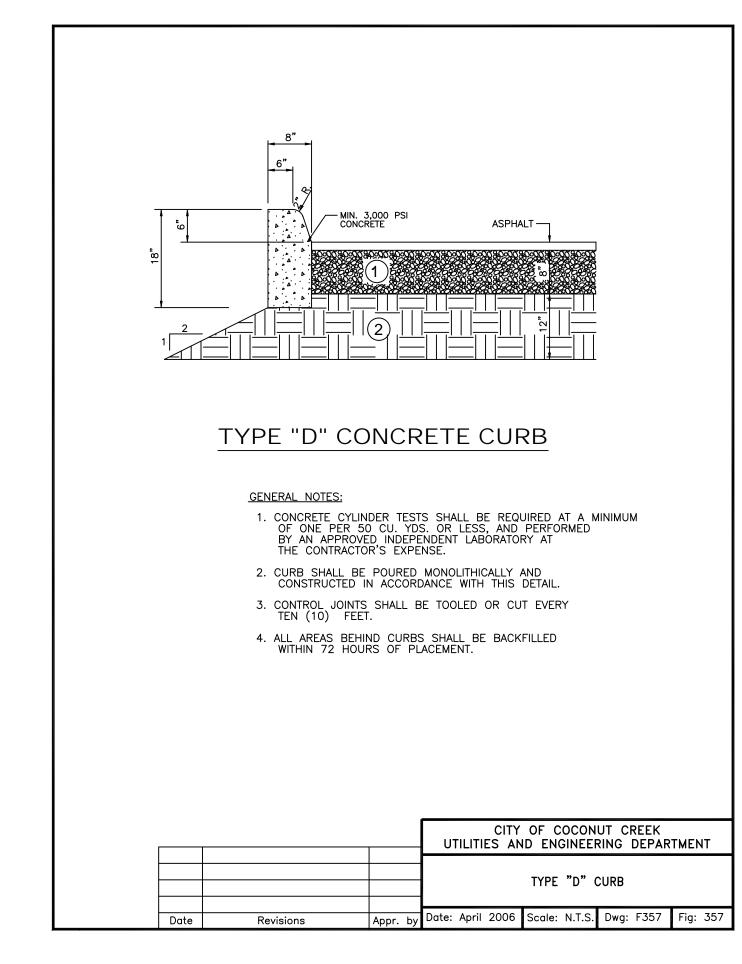
FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516ddts.dwg PLOT DATE: 5/29/2013 8:29 AM BY: Andy Venneman

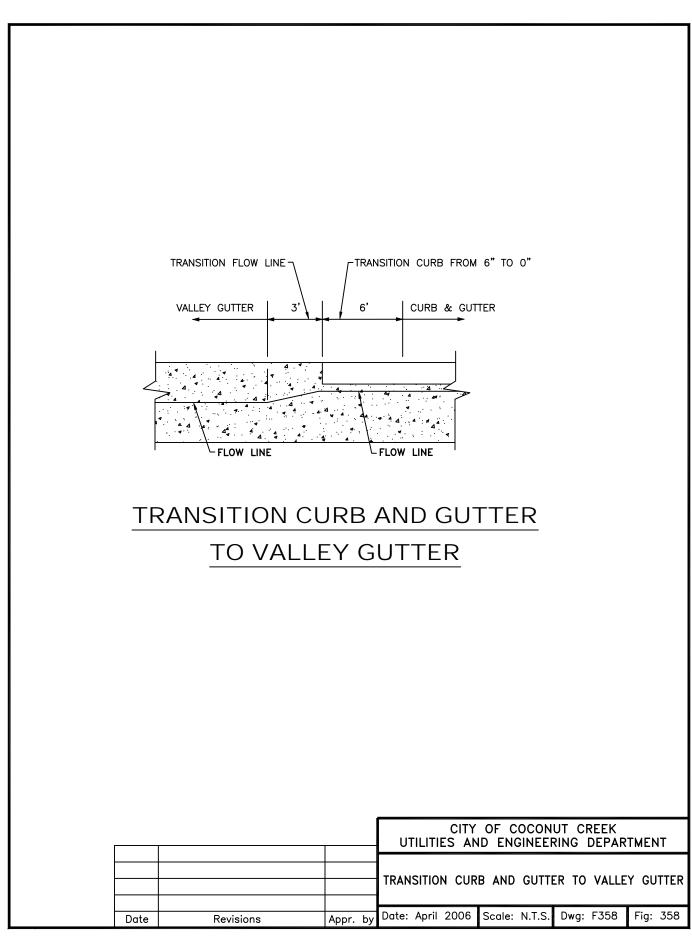
1. ALL ELEVATIONS ARE IN N.G.V.D.

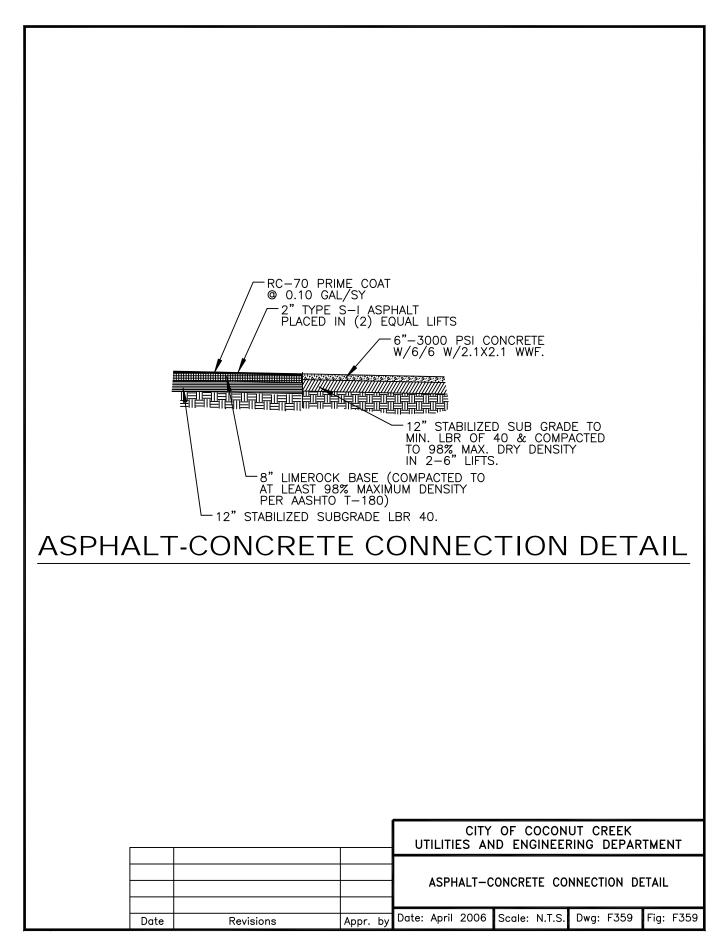


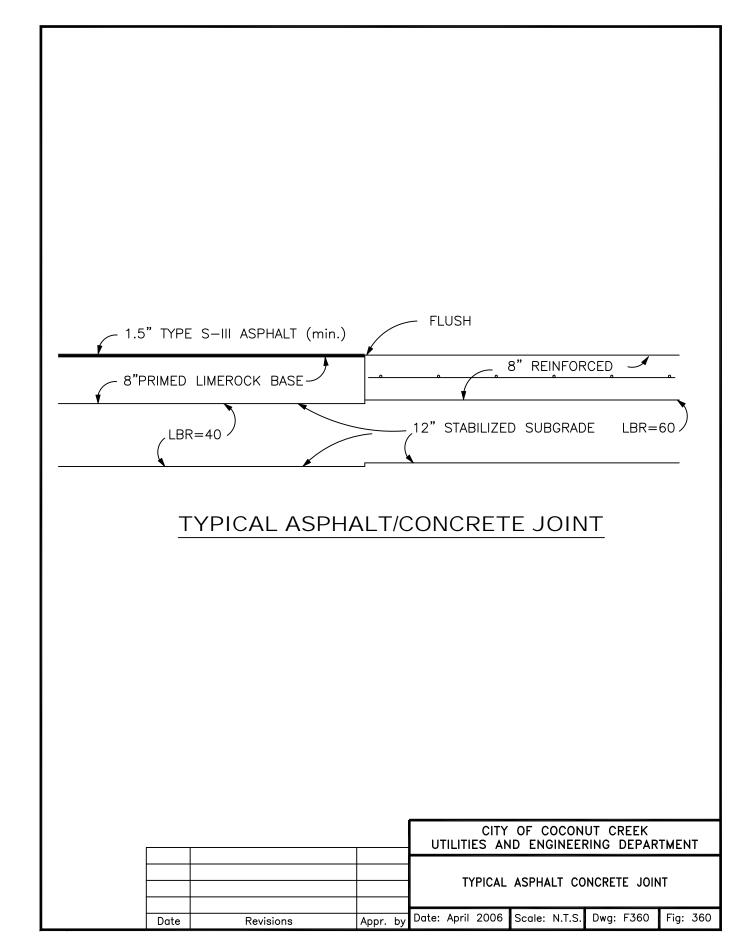


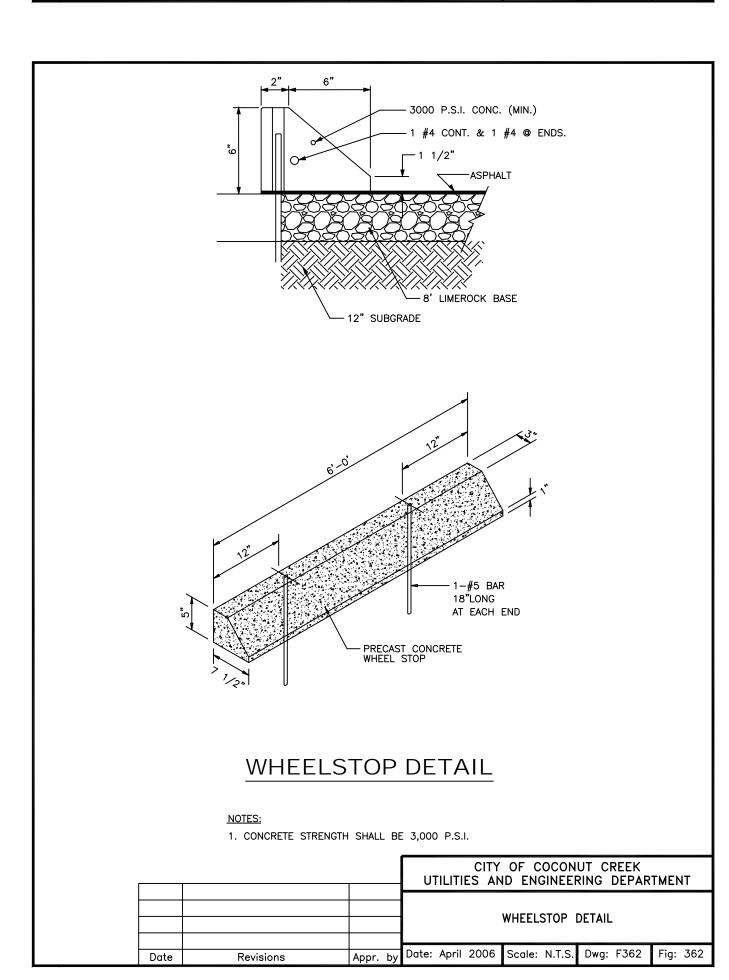












NOTES: 1. ALL ELEVATIONS ARE IN N.G.V.D.

FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516ddts.dwg
PLOT DATE: 5/29/2013 8:30 AM BY: Andy Venneman LAYOUT: [PD6]

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> DATE: Dec. 2012

> > SCALE:

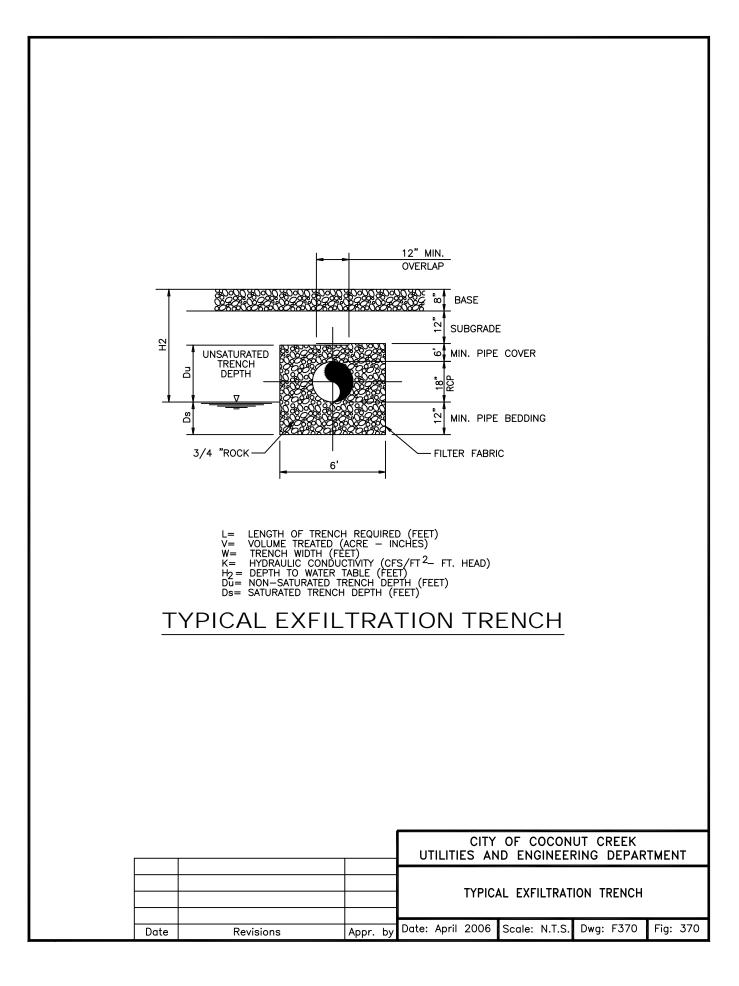
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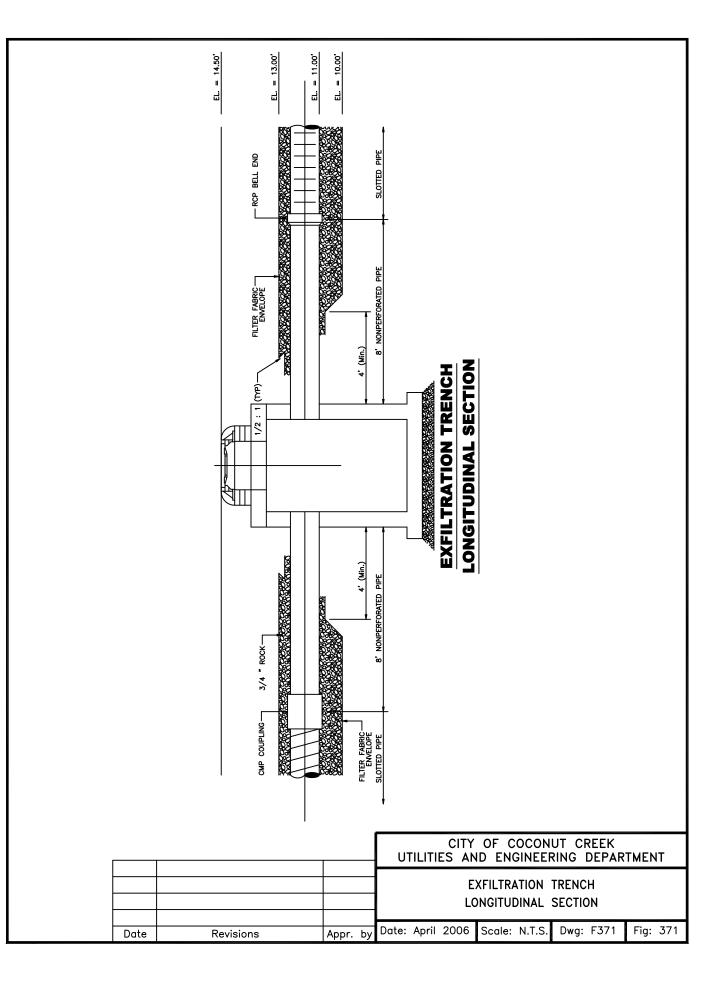
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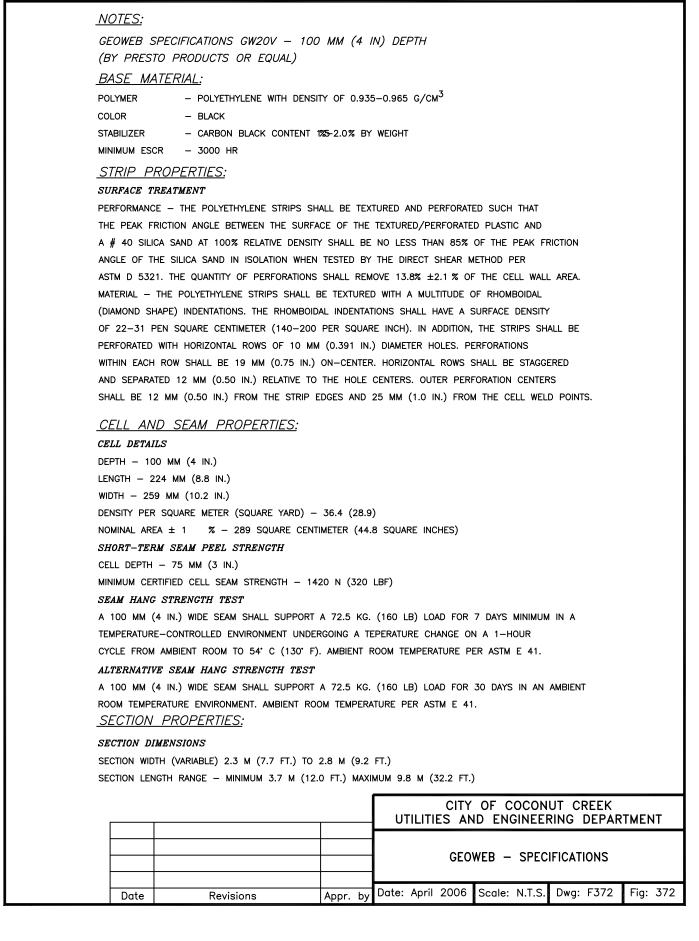
JOB NUMBER 12-3516

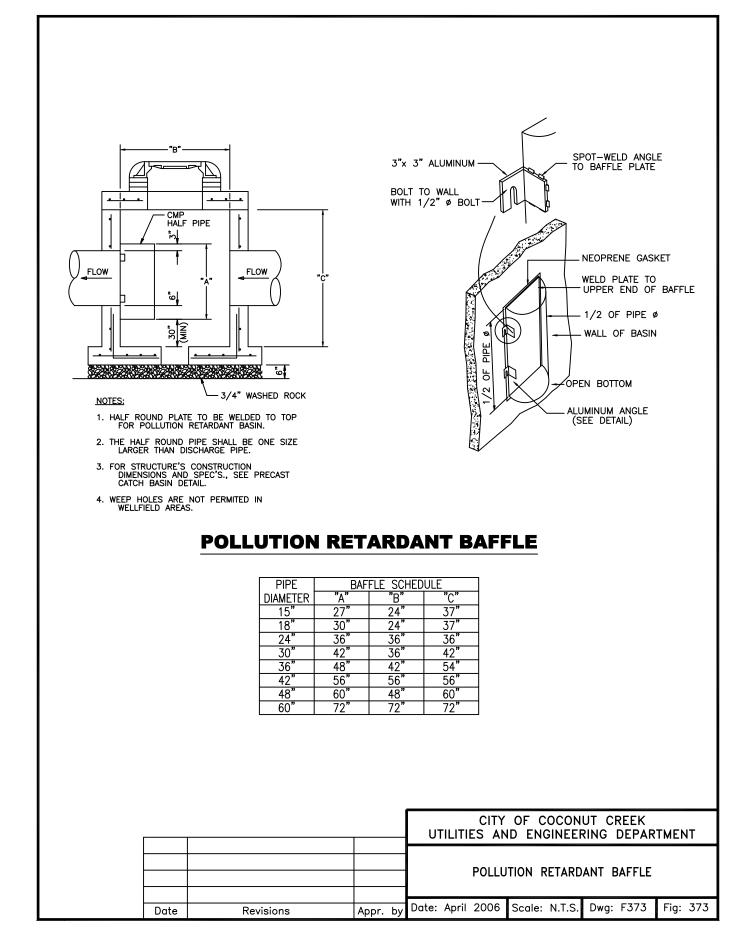
SHEET No. PD6

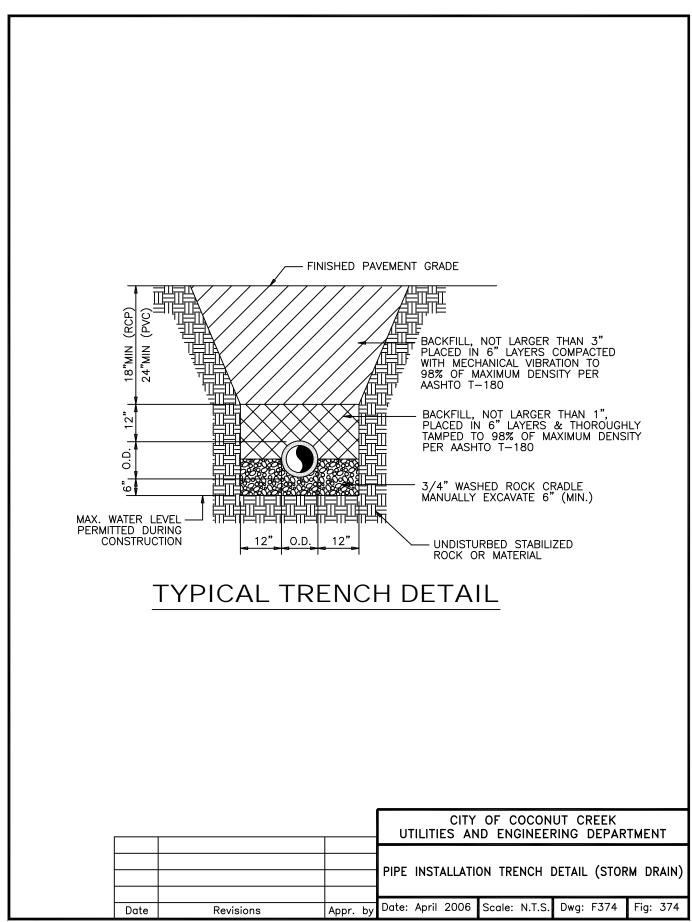
May 28 2013 CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890

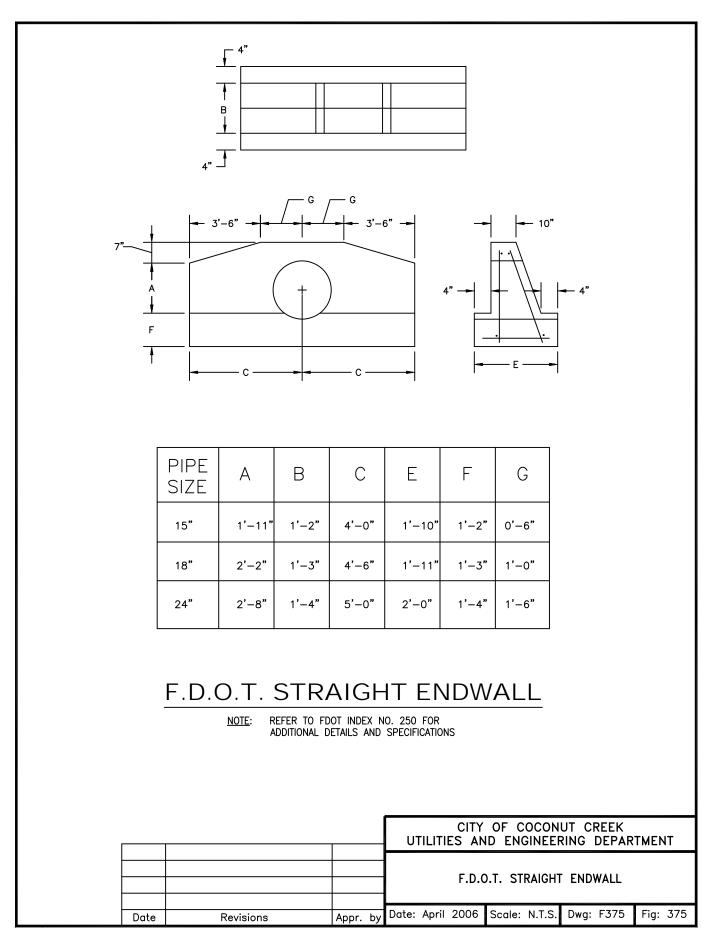


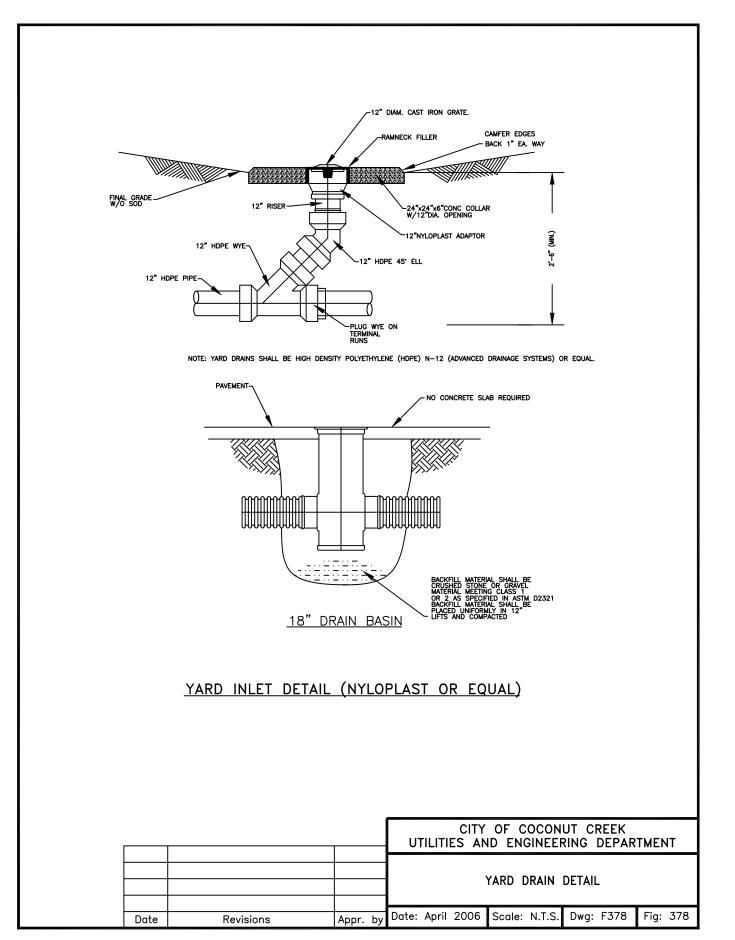


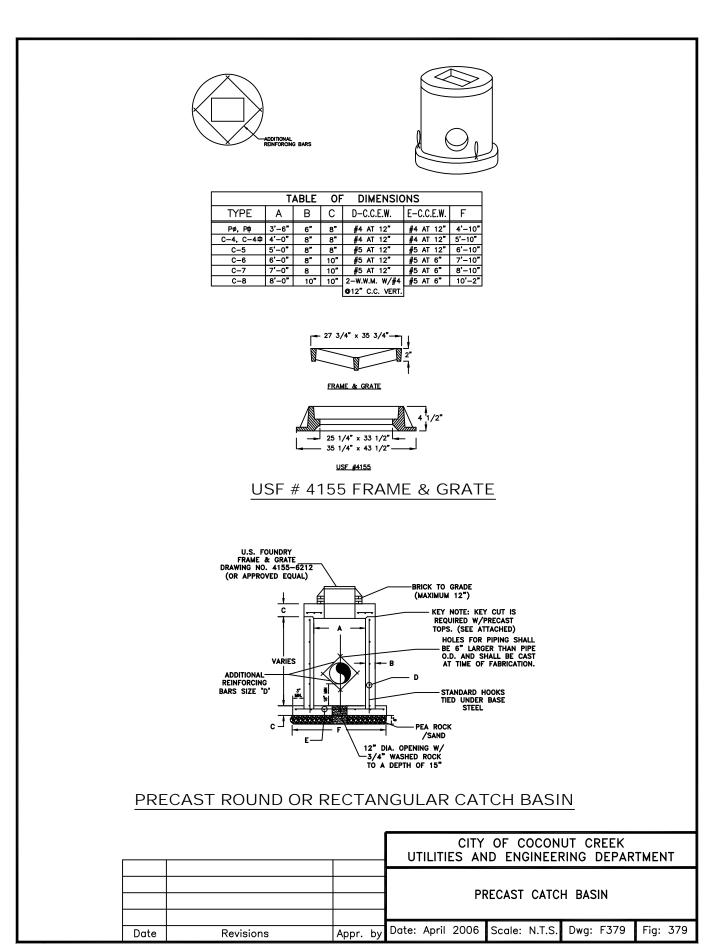


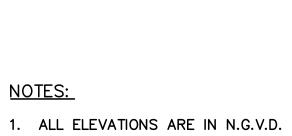












FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516ddts.dwg PLOT DATE: 5/29/2013 8:30 AM BY: Andy Venneman LAYOUT: [PD7]

1. ALL ELEVATIONS ARE IN N.G.V.D.

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> DATE: Dec. 2012

> > SCALE:

DESIGNED BY:

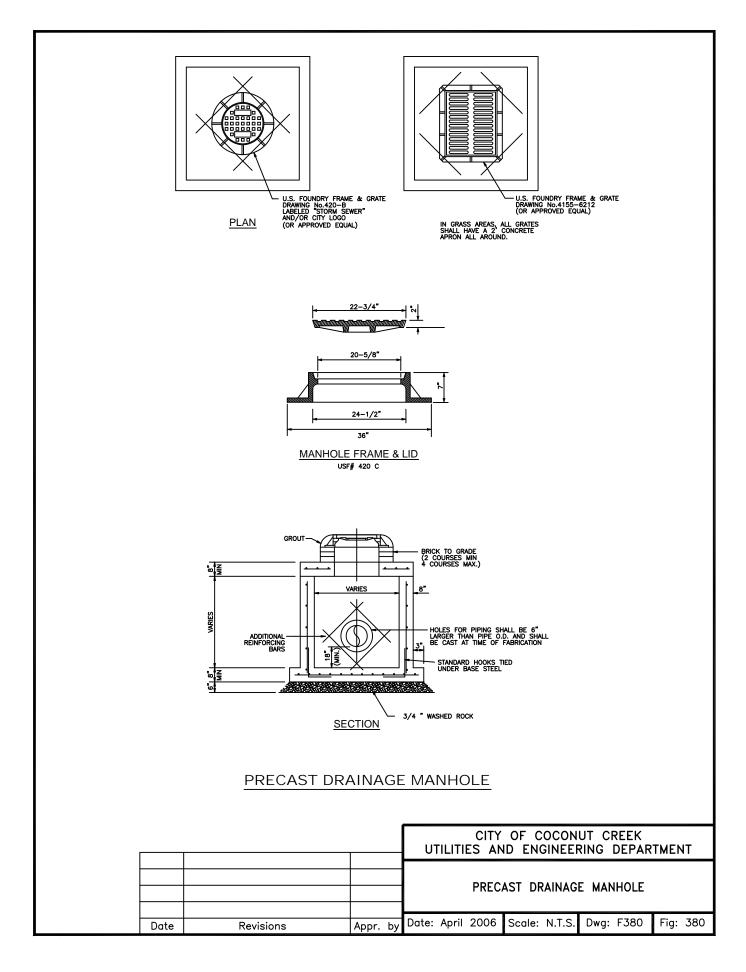
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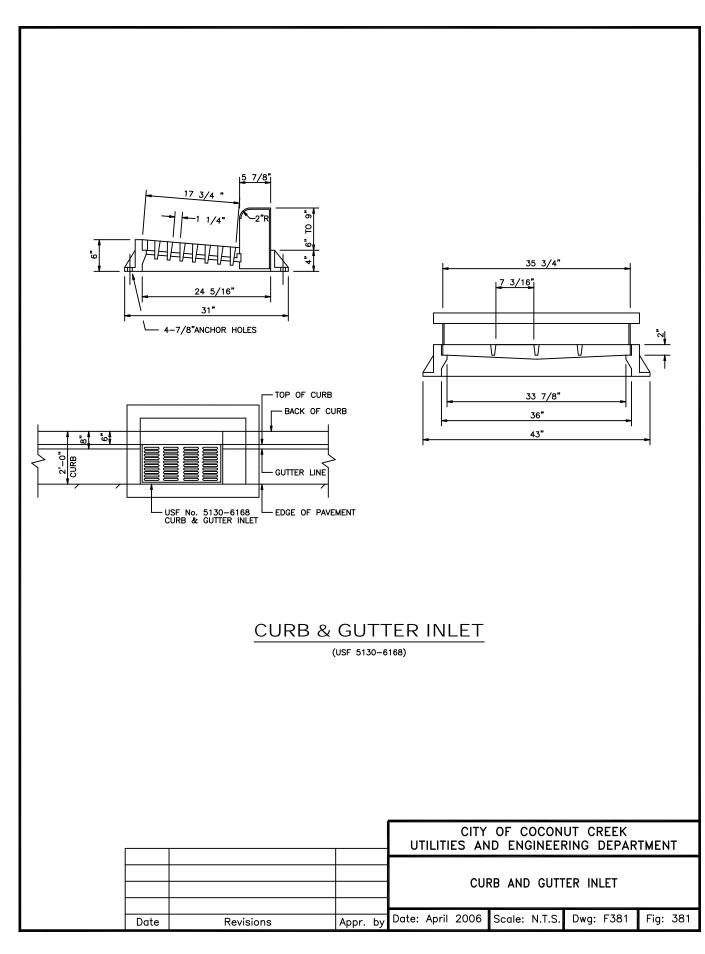
JOB NUMBER 12-3516

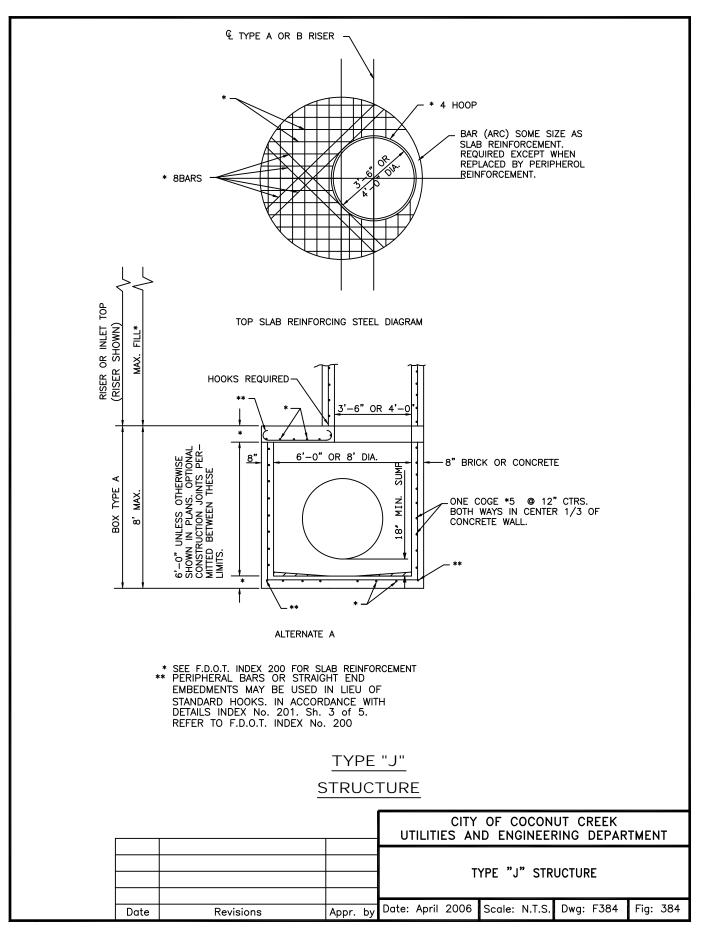
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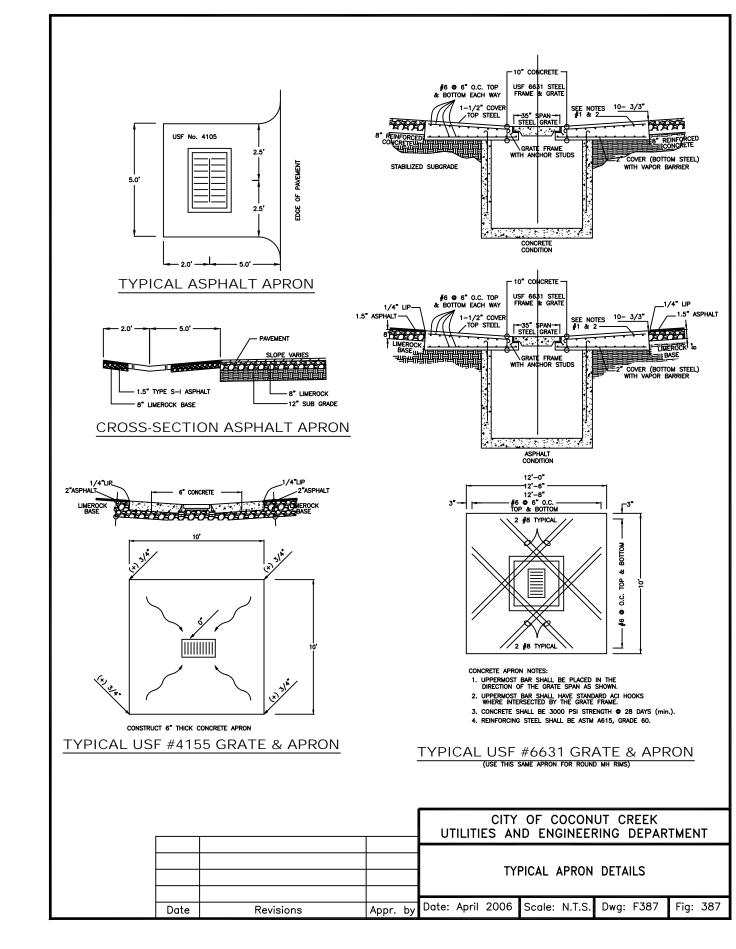
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May 28 2013 FL. REG. NO. 56890









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DATE:

Dec. 2012

SCALE:

DESIGNED BY:

DRAWN BY:

JOB NUMBER

12-3516

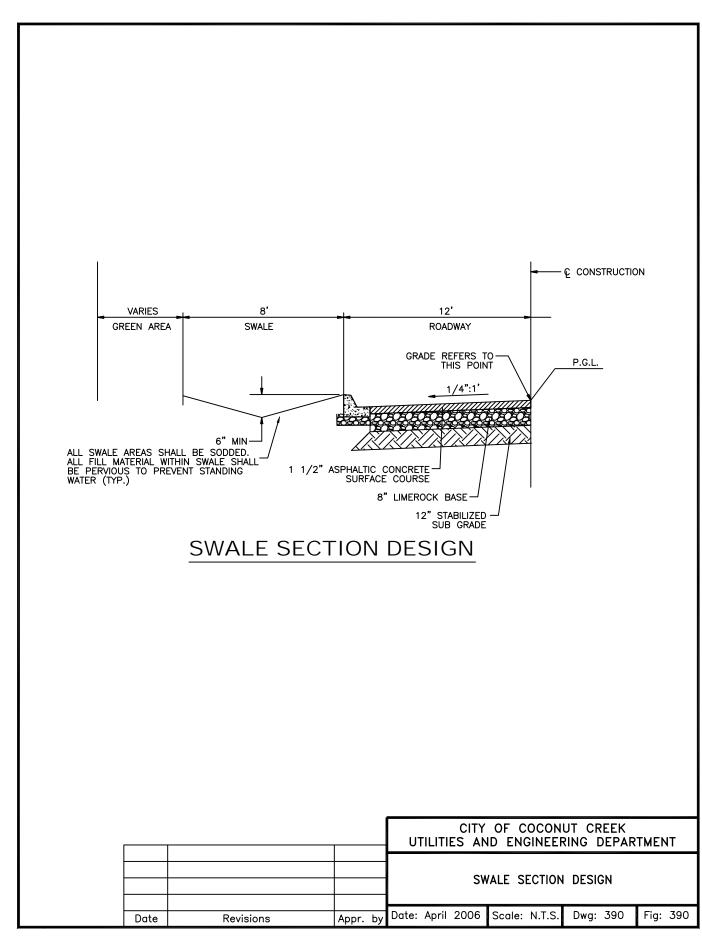
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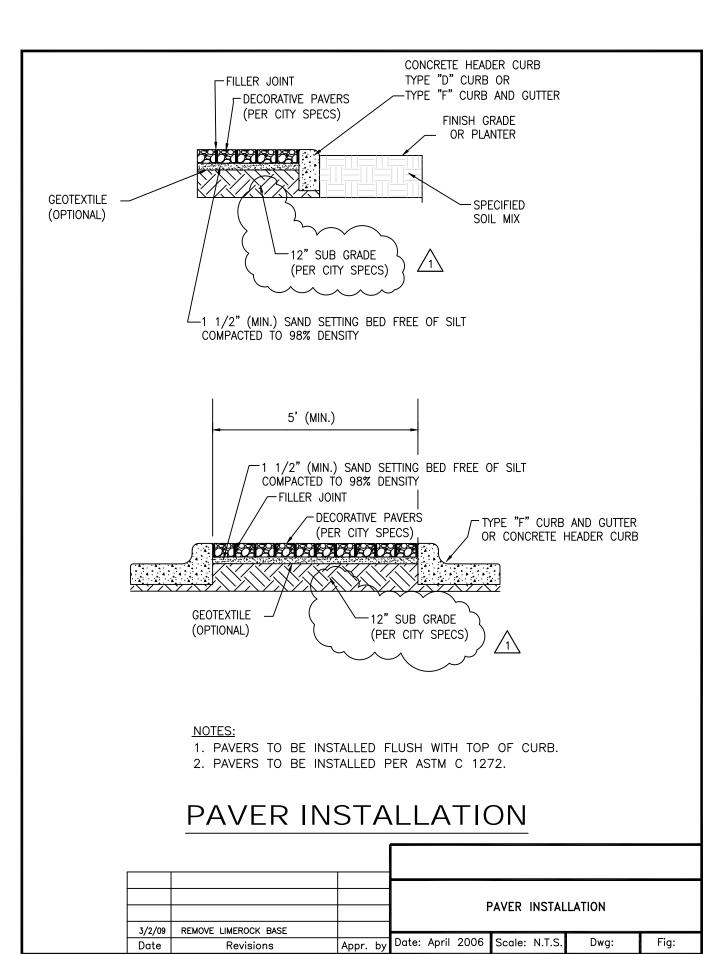
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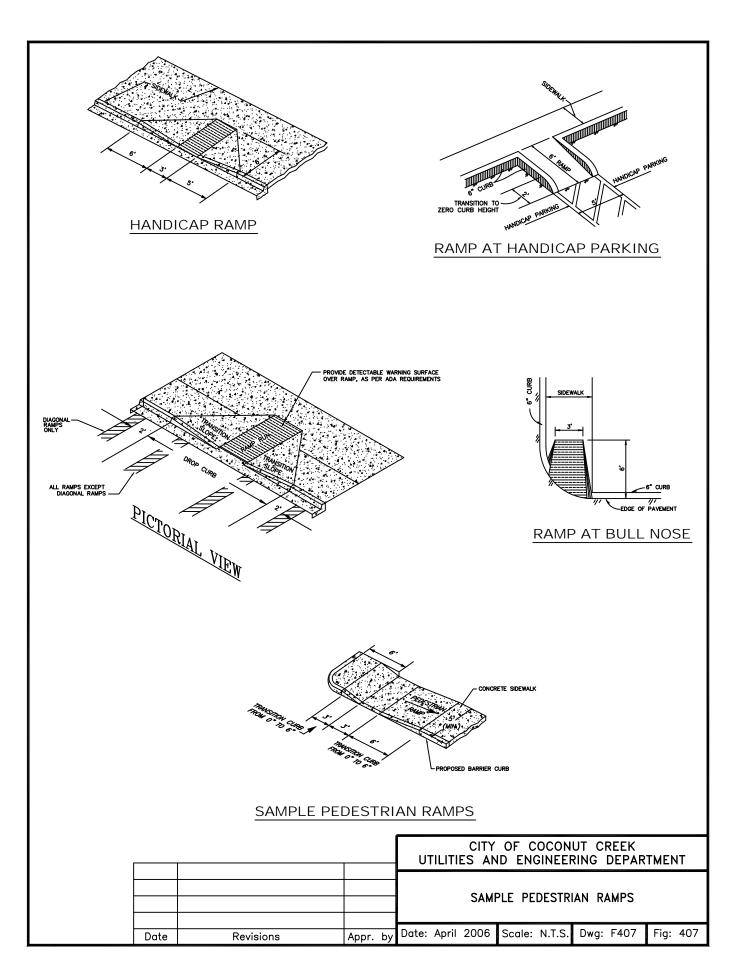
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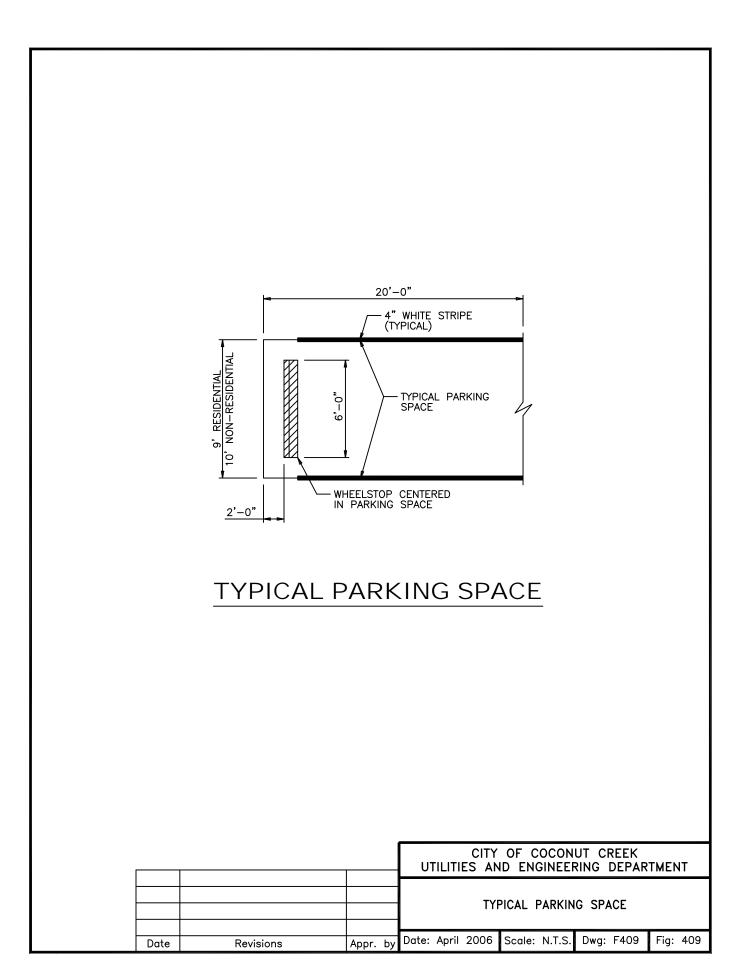
May 28 2013

CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890



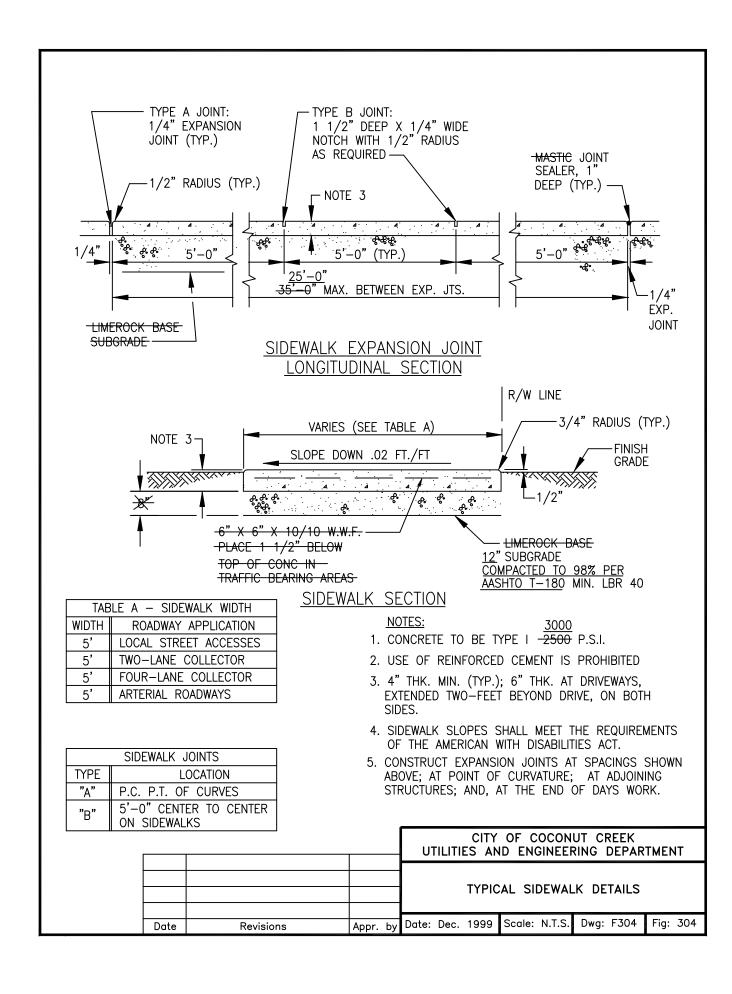


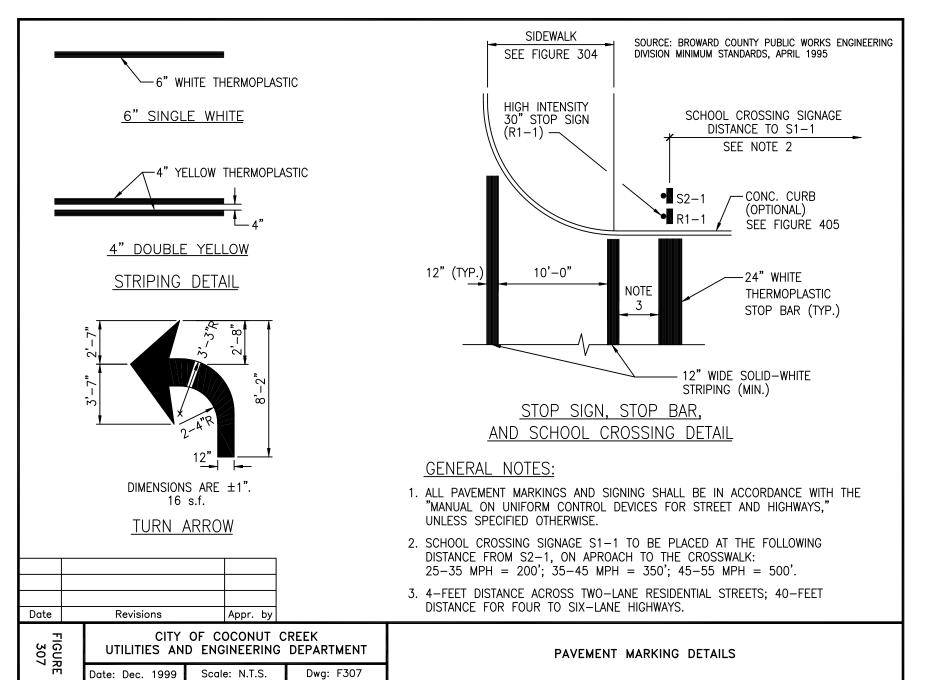


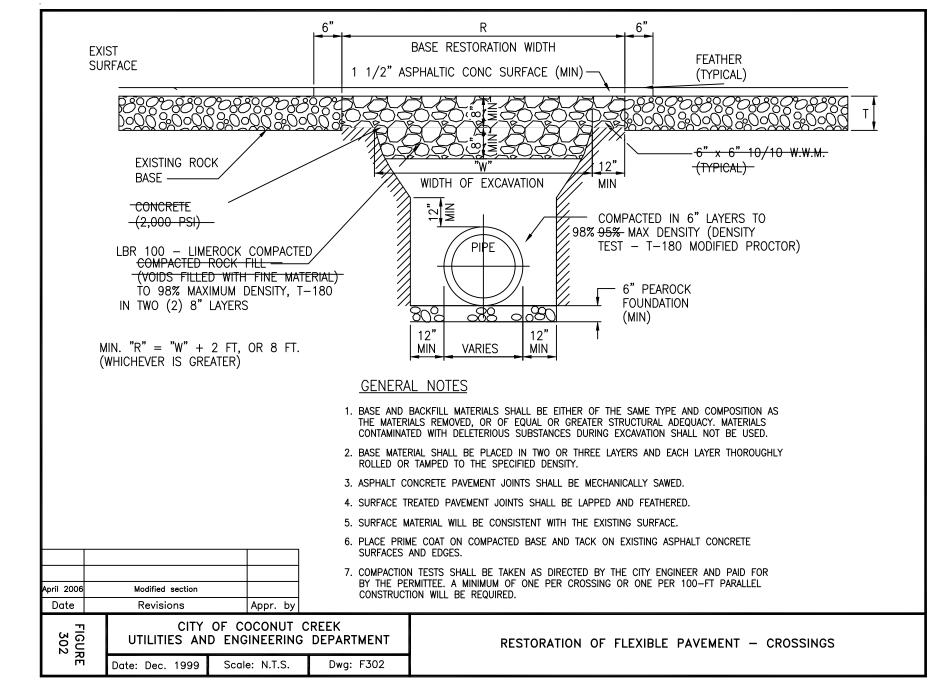


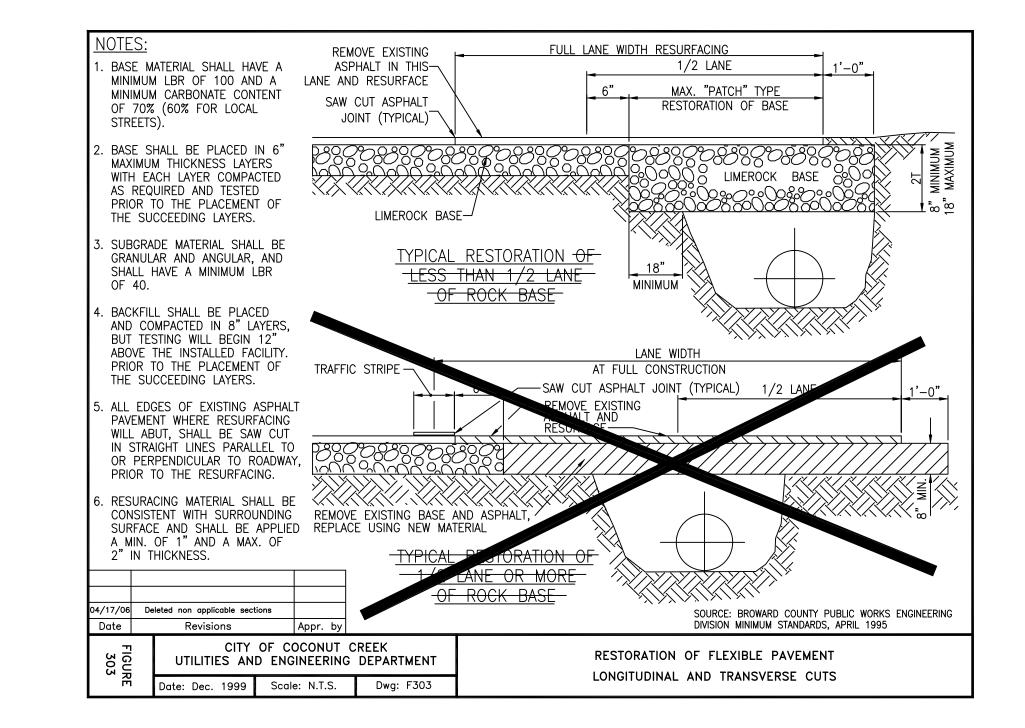


FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516ddts.dwg
PLOT DATE: 5/29/2013 8:30 AM BY: Andy Venneman
LAYOUT: [PD8]









CENTER

NO. DATE: DESCRIPTION

FLORIDA

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Engineering,

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JOHNSON TECHNOLOGY CENTE
FORTS

CITY OF COCONUT CREEK

PAVING & DRAINAGE DETAIL

DATE: **Dec. 2012**

SCALE:

DESIGNED BY:

M.G.

DRAWN BY:

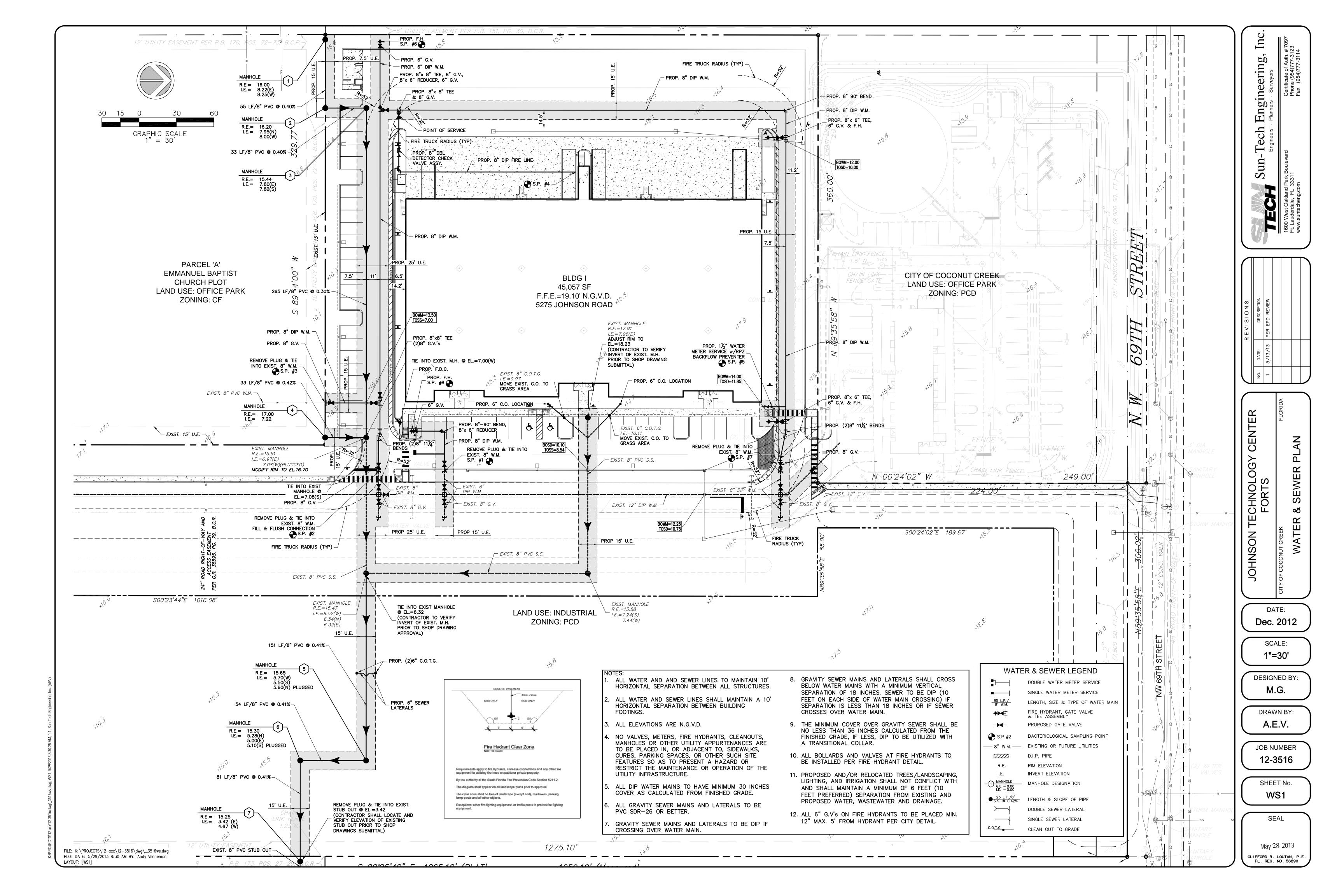
JOB NUMBER **12-3516**

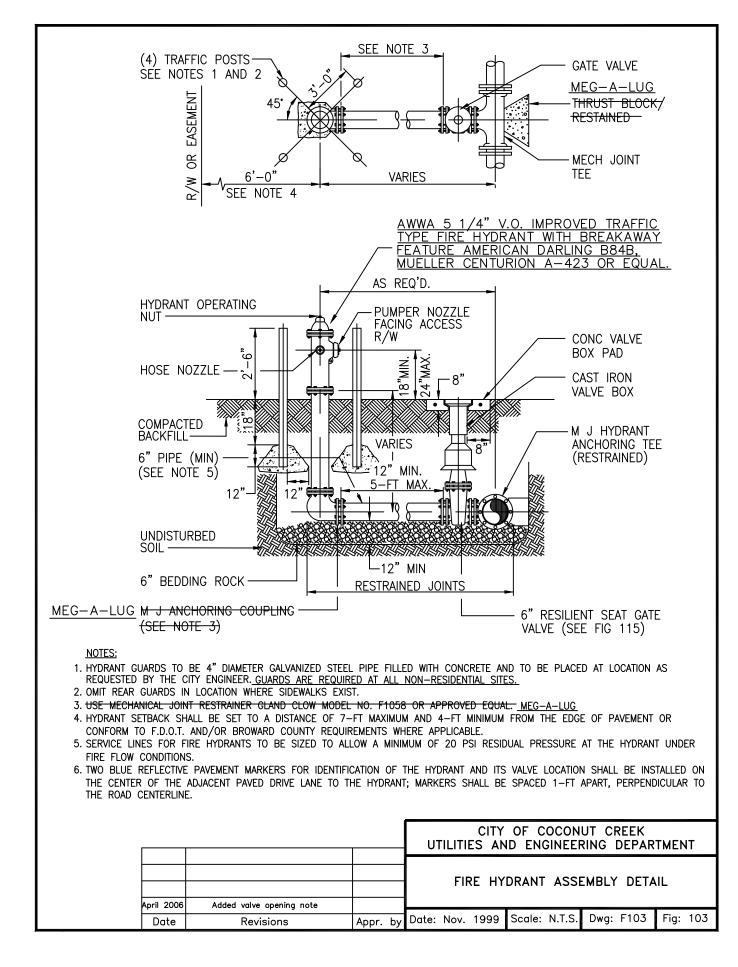
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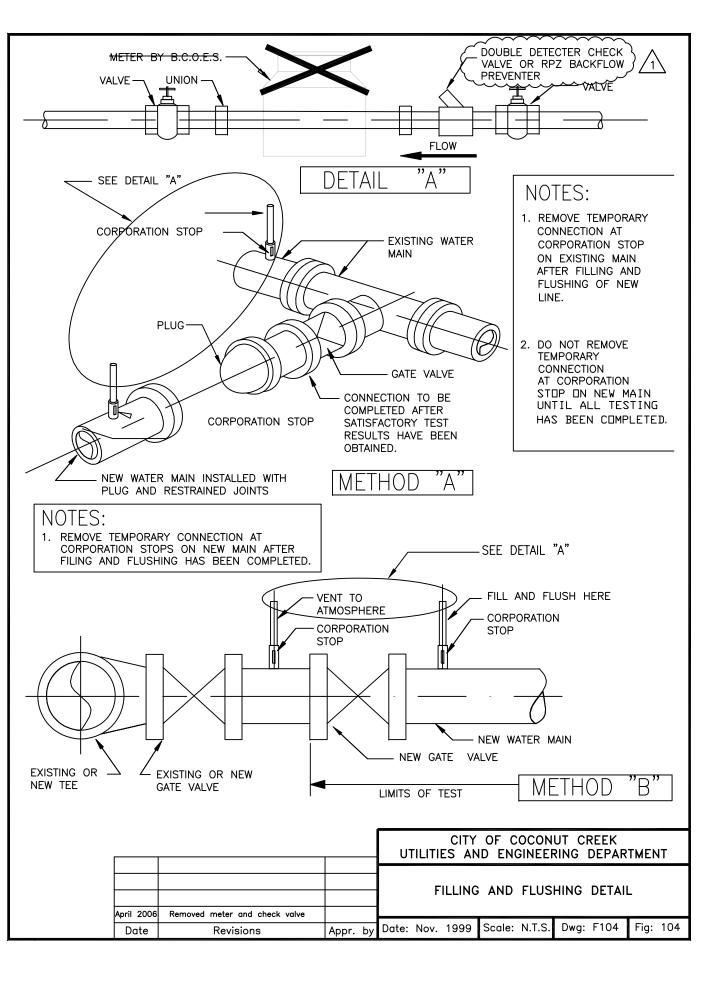
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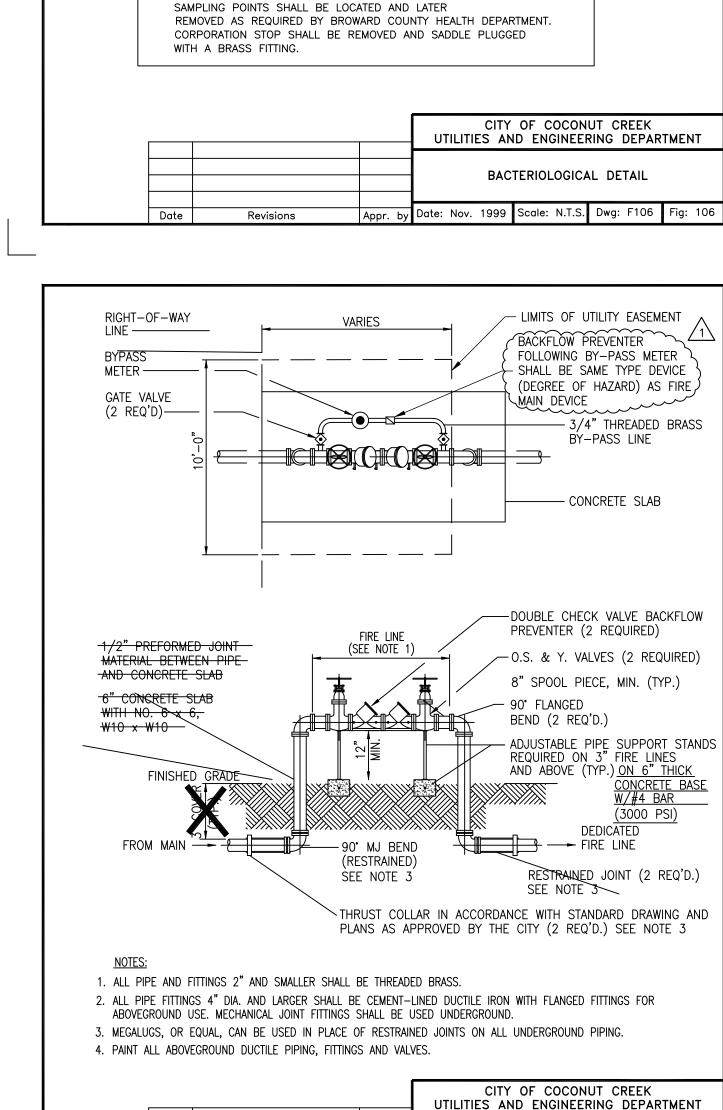
May 28 2013

FL. REG. NO. 56890









April 2006 Revised concrete slab under supports

Revisions

FIRELINE DOUBLE DETECTOR

CHECK VALVE ASSEMBLY

Appr. by Date: Nov. 1999 Scale: N.T.S. Dwg: F121 Fig: 121

A CORPORATION STOP SHALL BE INSTALLED WITH A LENGTH OF COPPER TUBING EXTENDING ABOVE THE

GROUND. THE TUBING SHALL BE INSTALLED WITH A

___ 3/4 " COPPER TUBING

BY O.E.S.

- STAINLESS STEEL DOUBLE STRAP

SERVICE SADDLE

OR PVC PIPE, AS APPROVED

180° BEND AND A VALVE.

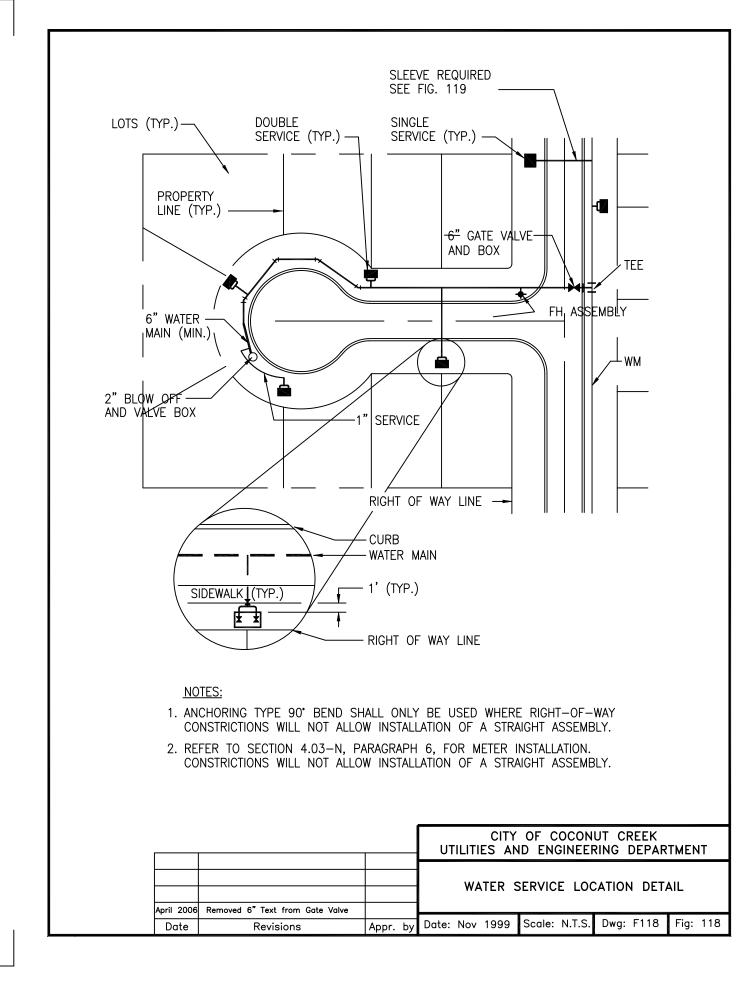
3/4 " VALVE

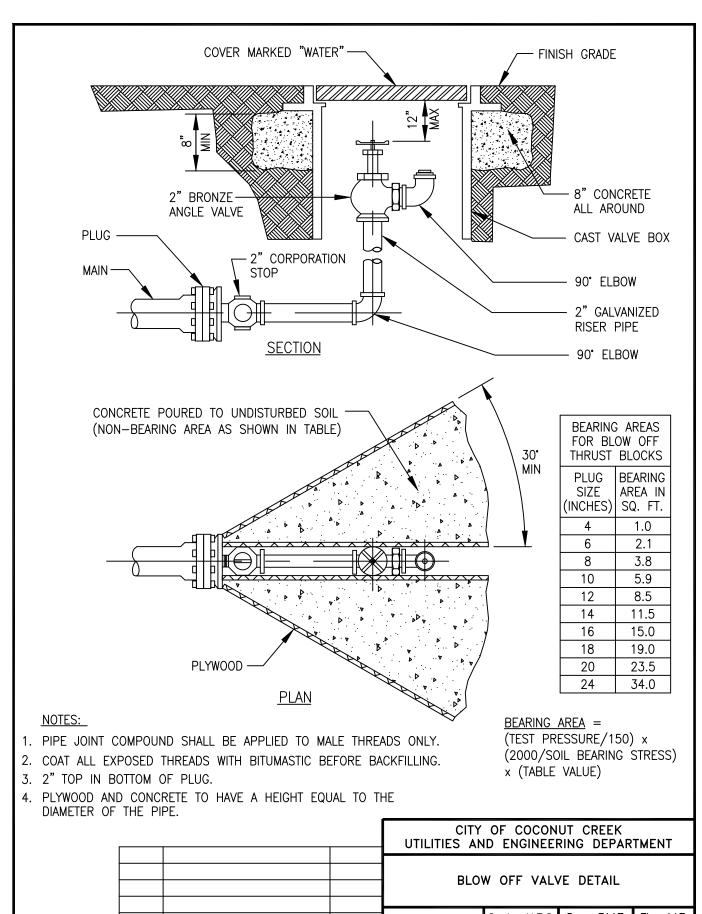
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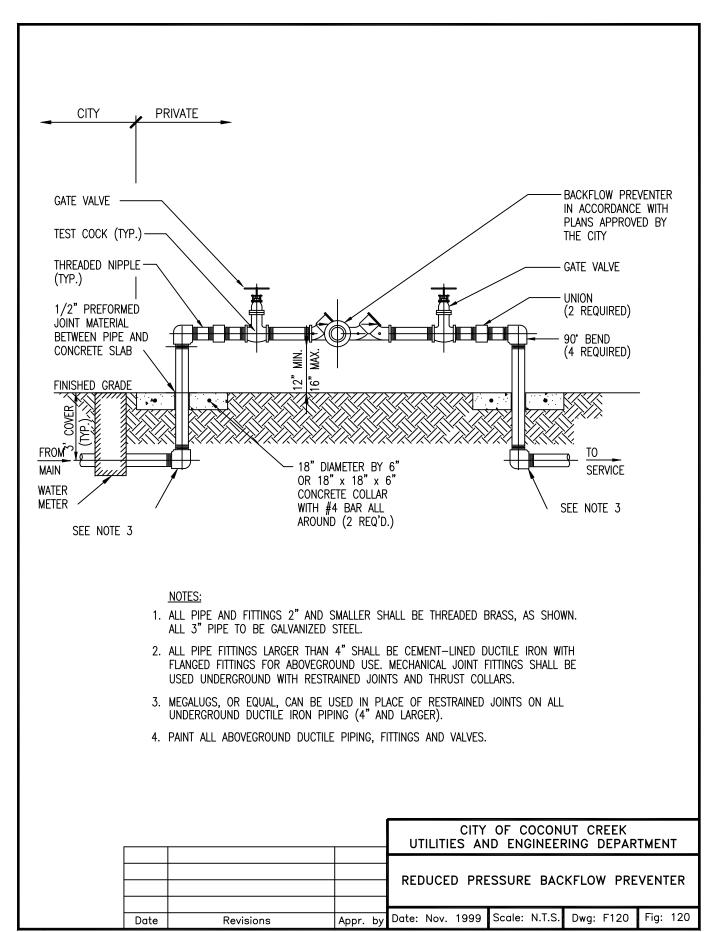
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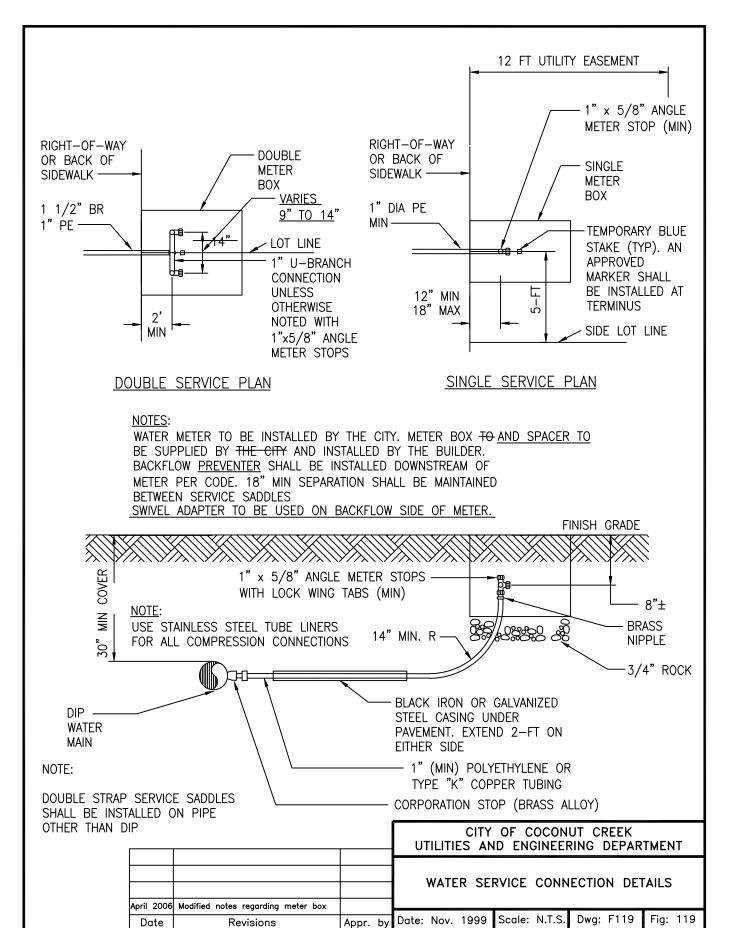
CORPORATION STOP

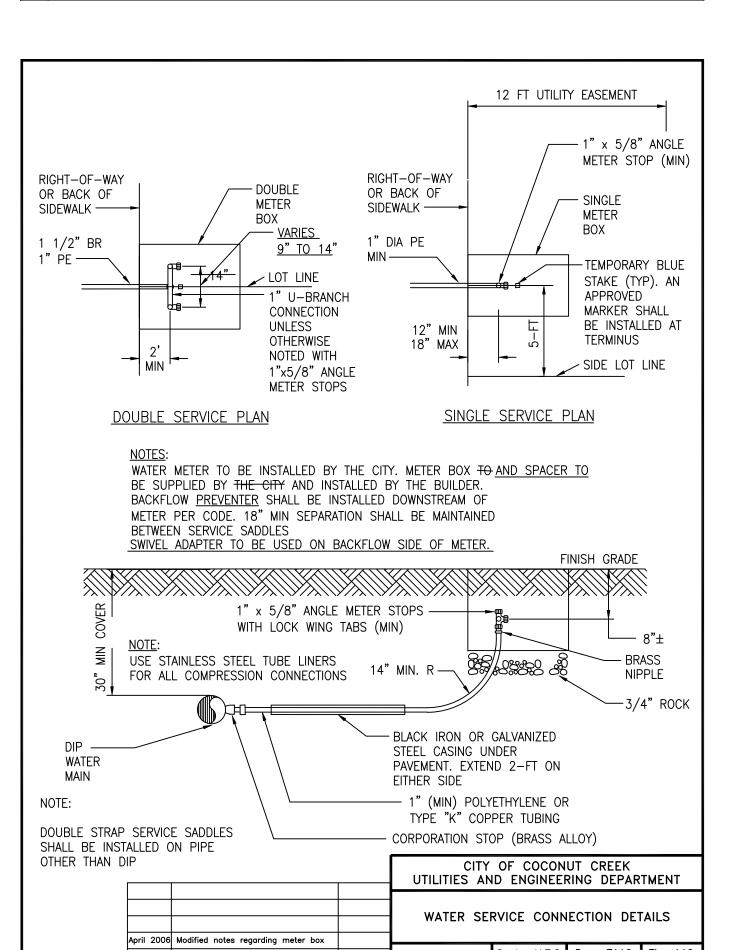
GRADE

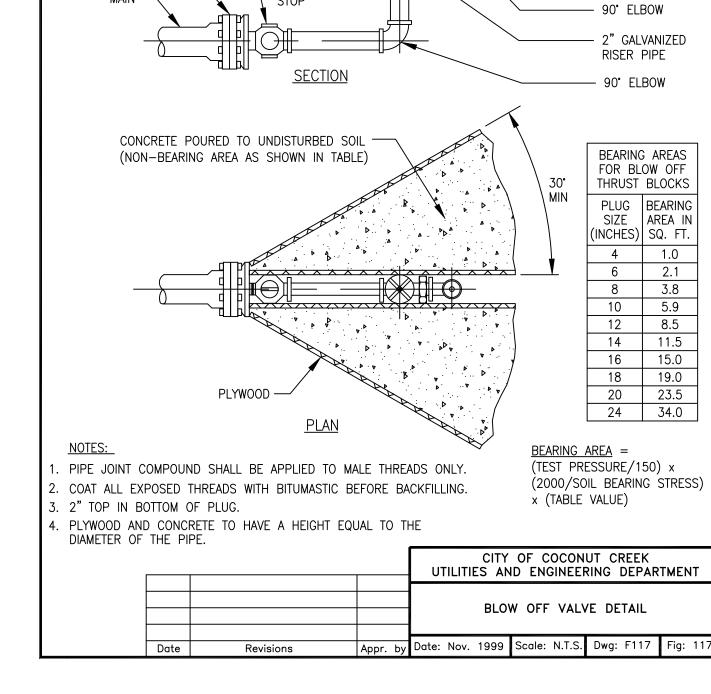


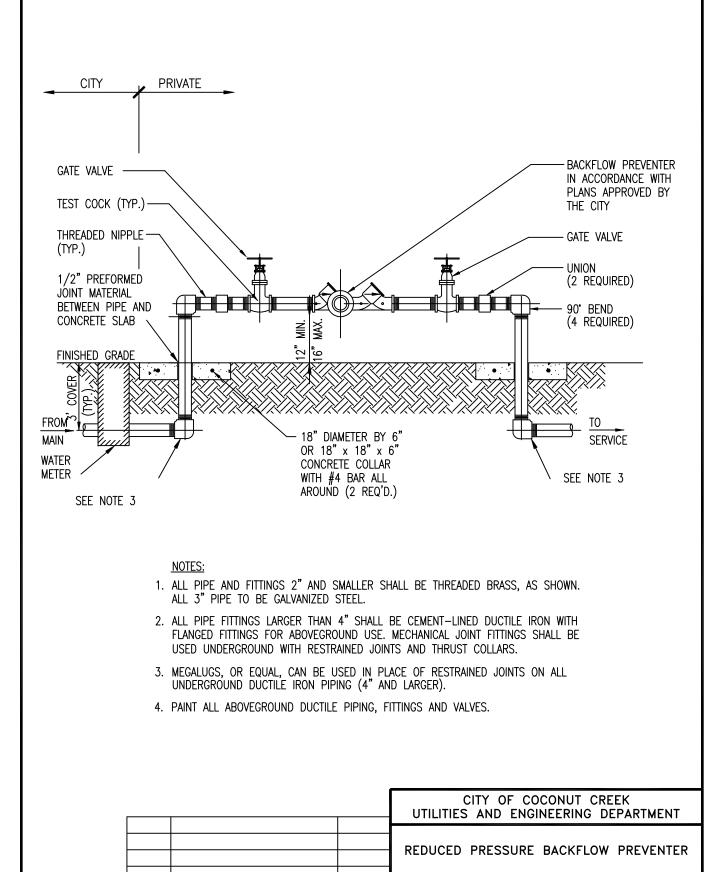












FILE: K: $\PROJECTS\12-xxx\12-3516\dwg_3516wsdt.dwg$ PLOT DATE: 5/29/2013 8:30 AM BY: Andy Venneman LAYOUT: [WS2]

May 28 2013 FL. REG. NO. 56890

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DATE:

Jan. 2013

SCALE:

DESIGNED BY:

DRAWN BY:

M.A.S.

JOB NUMBER

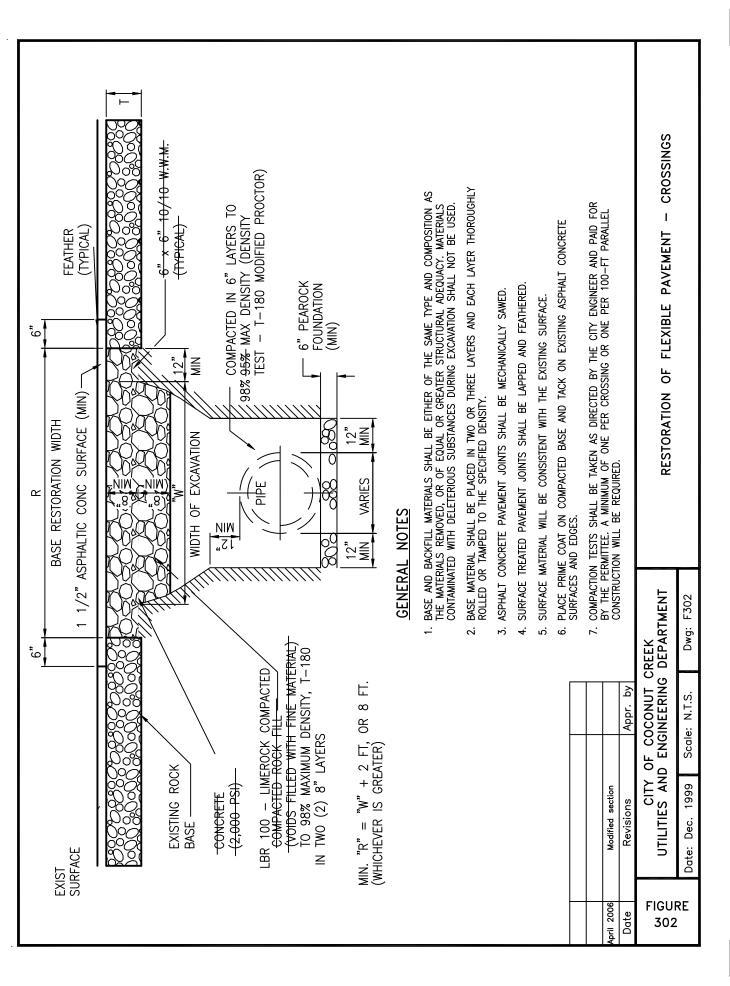
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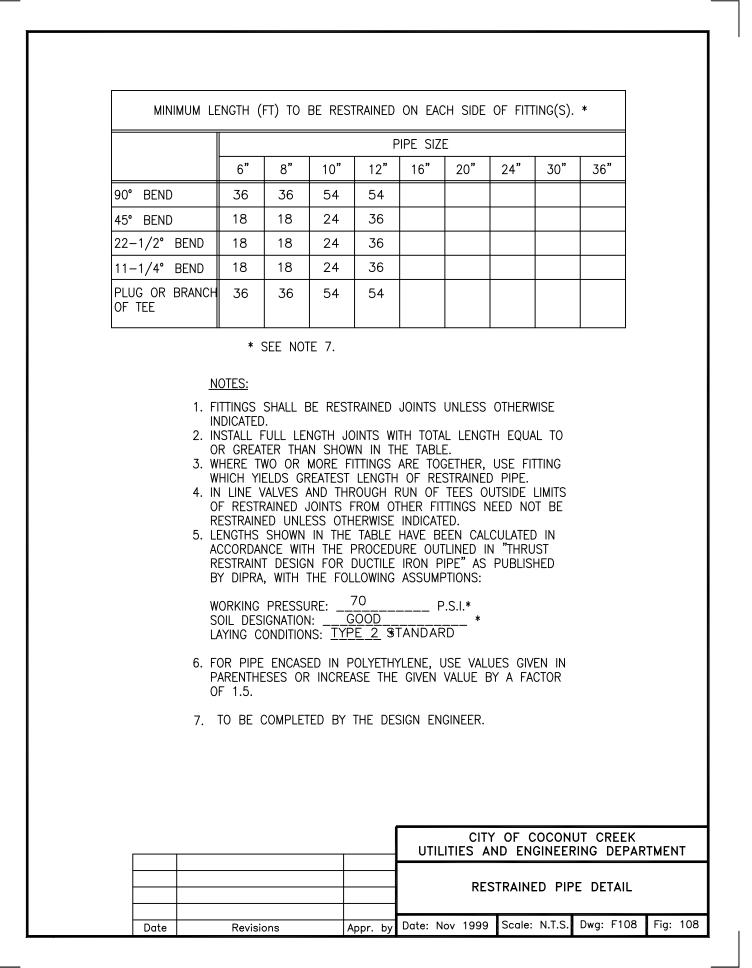
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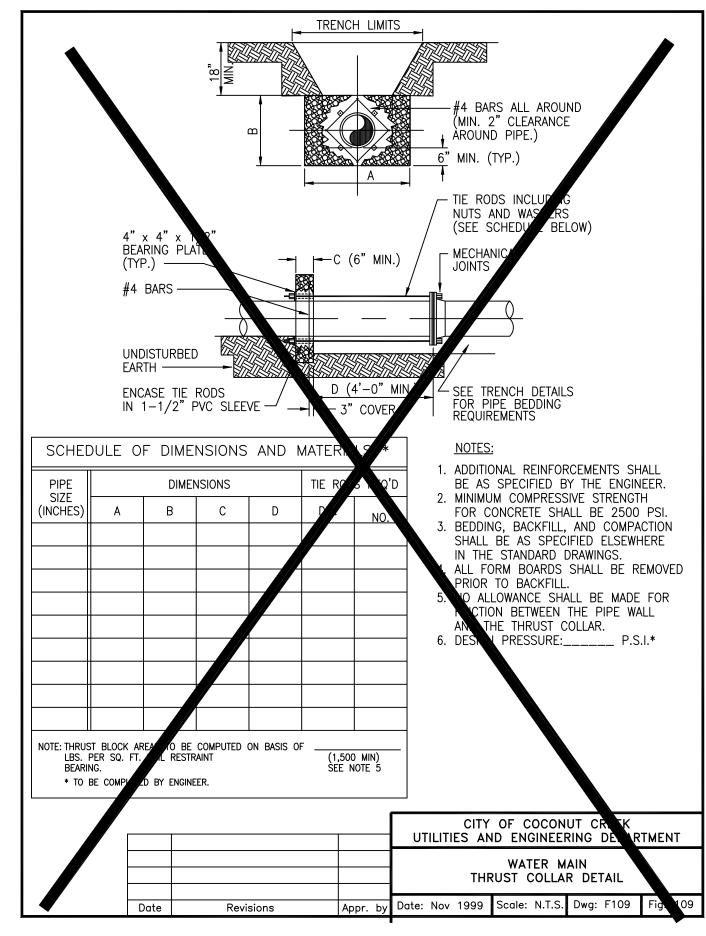
WS2

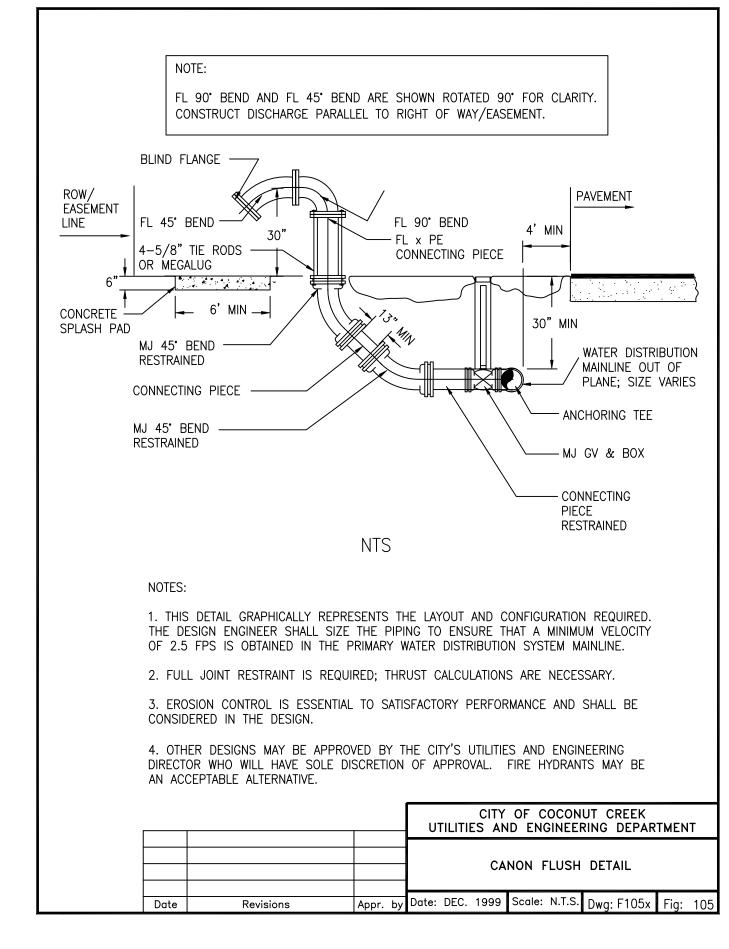
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DATE:

Jan. 2013

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DESIGNED BY:

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JOB NUMBER

12-3516

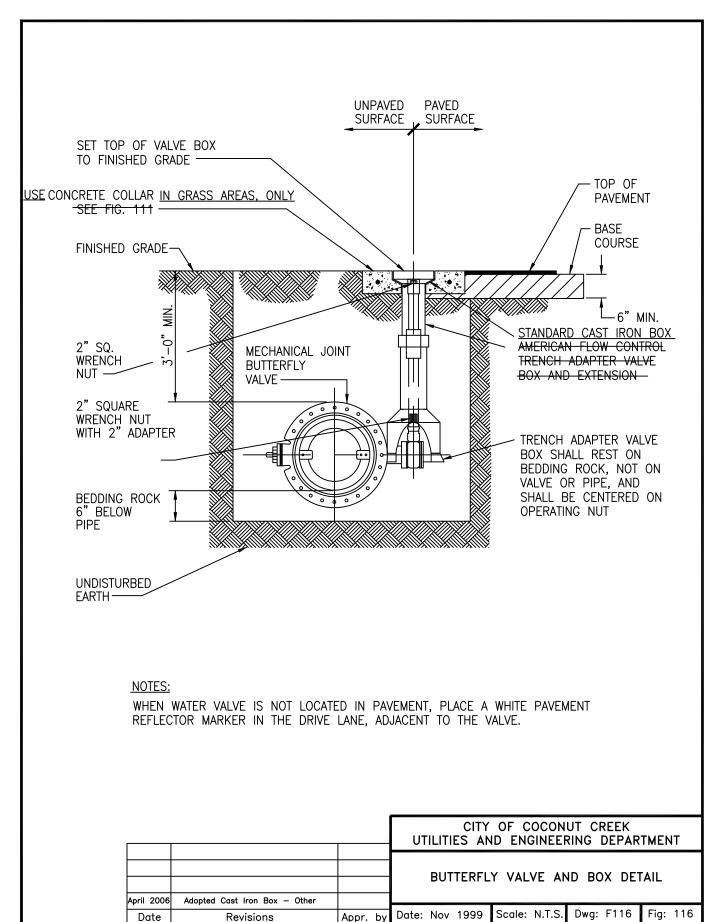
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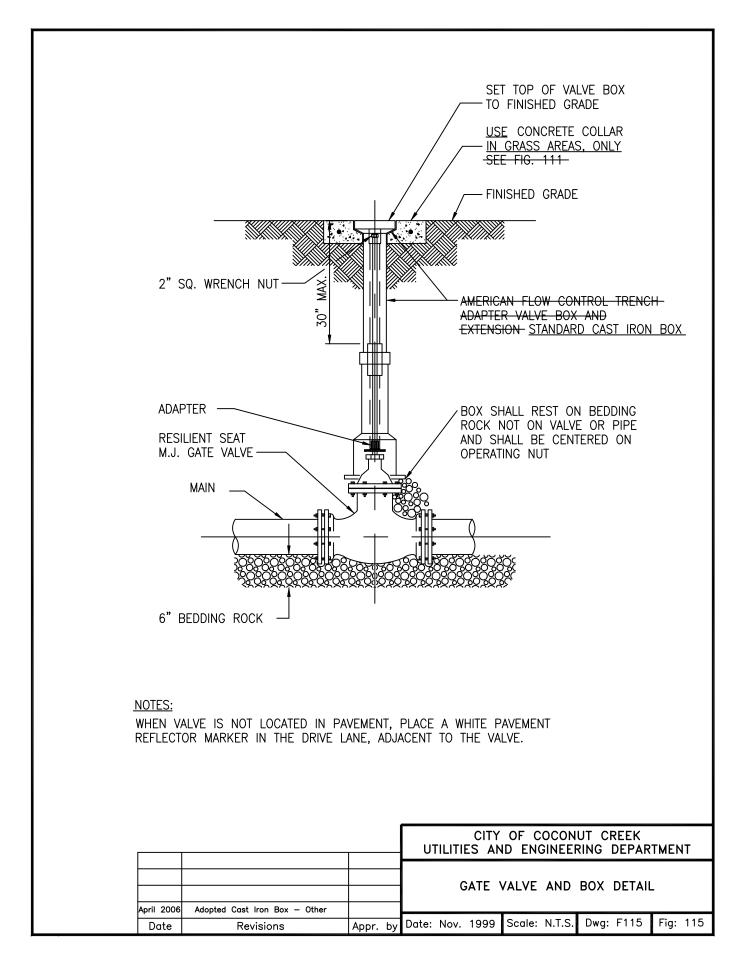
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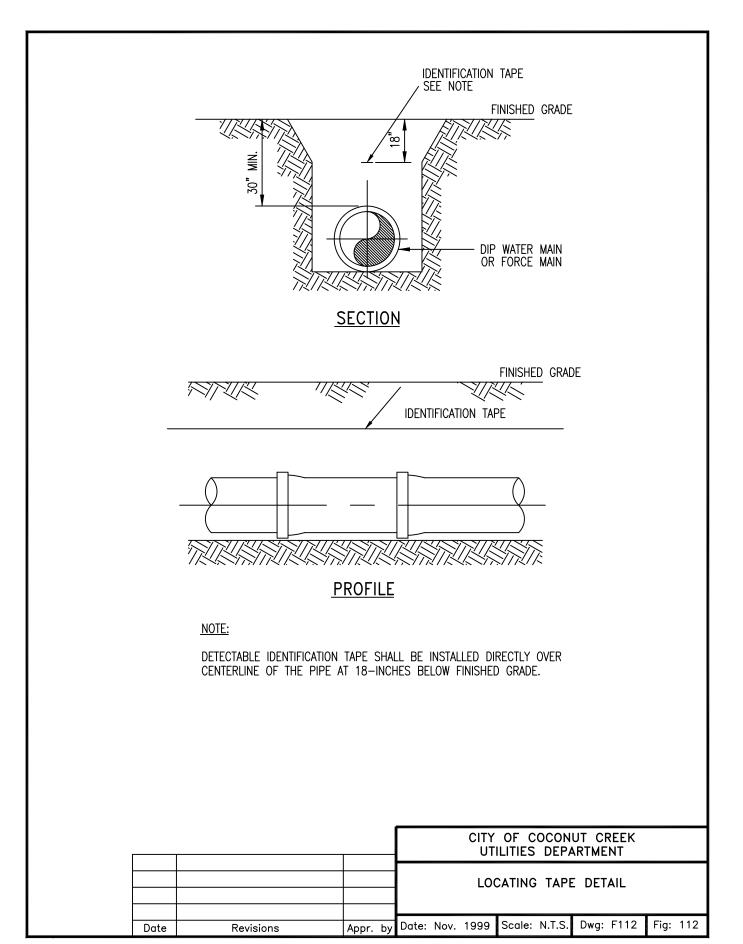
May 28 2013

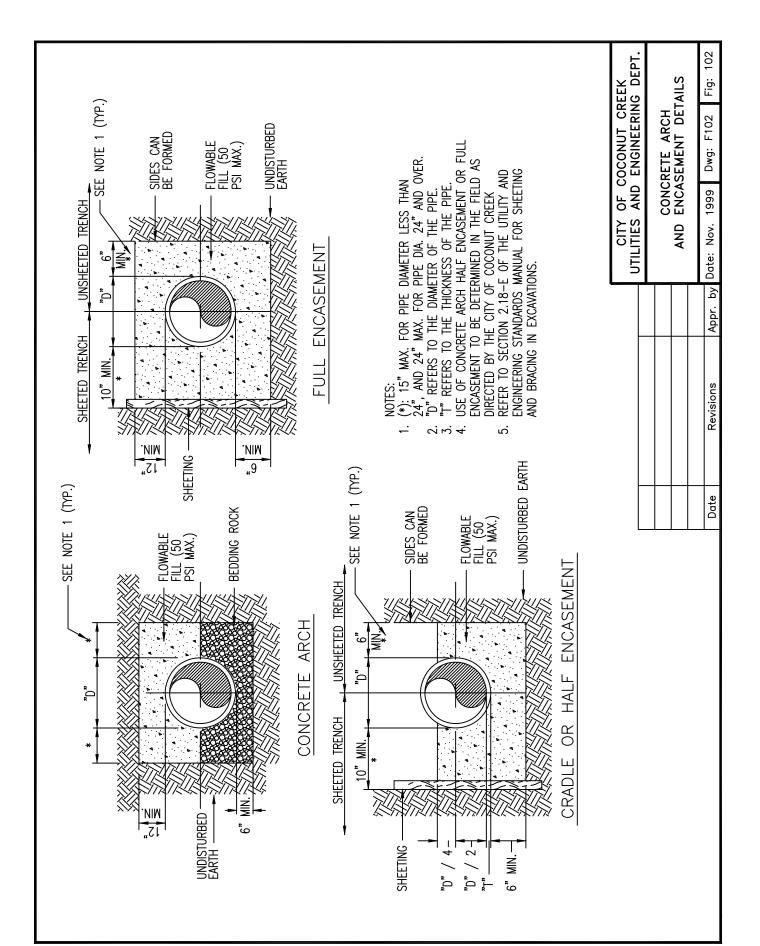
FL. REG. NO. 56890

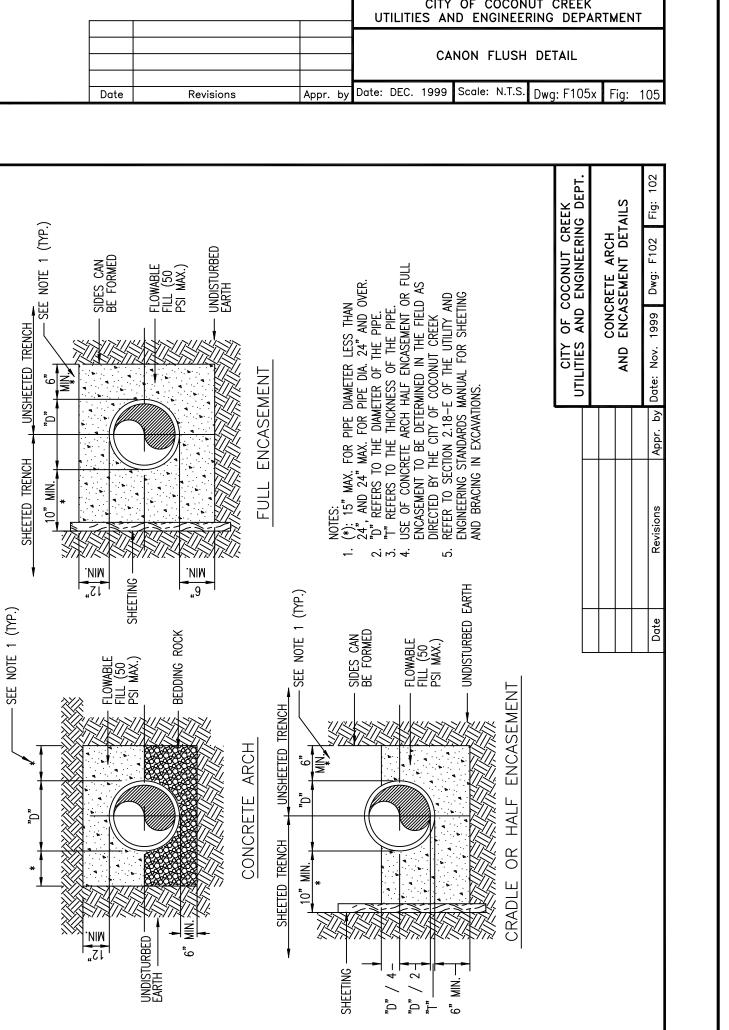
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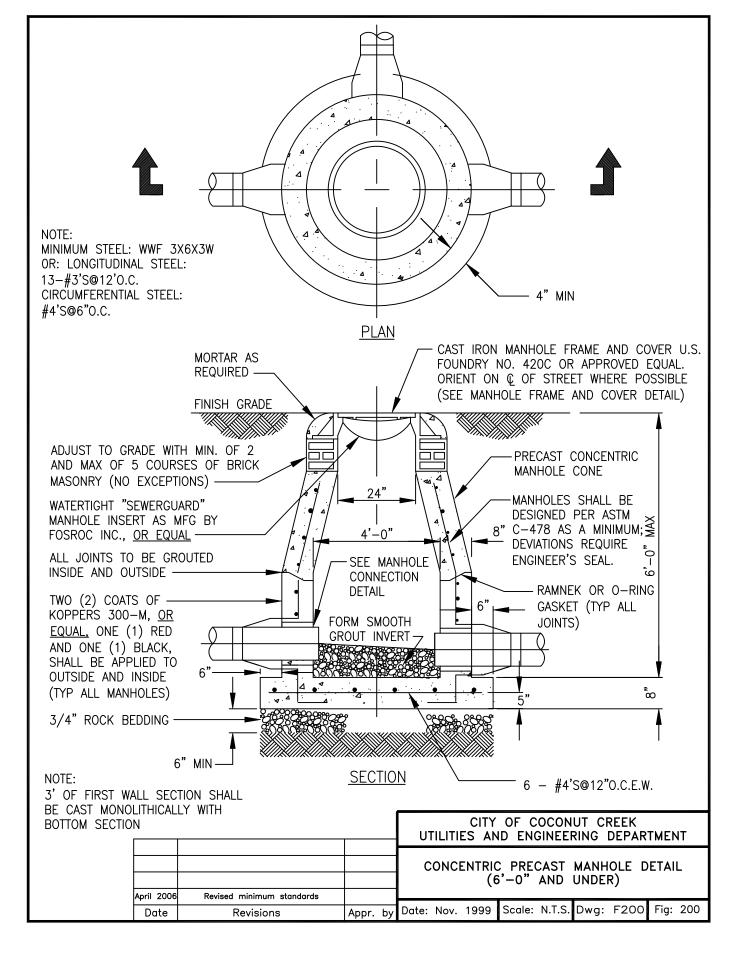


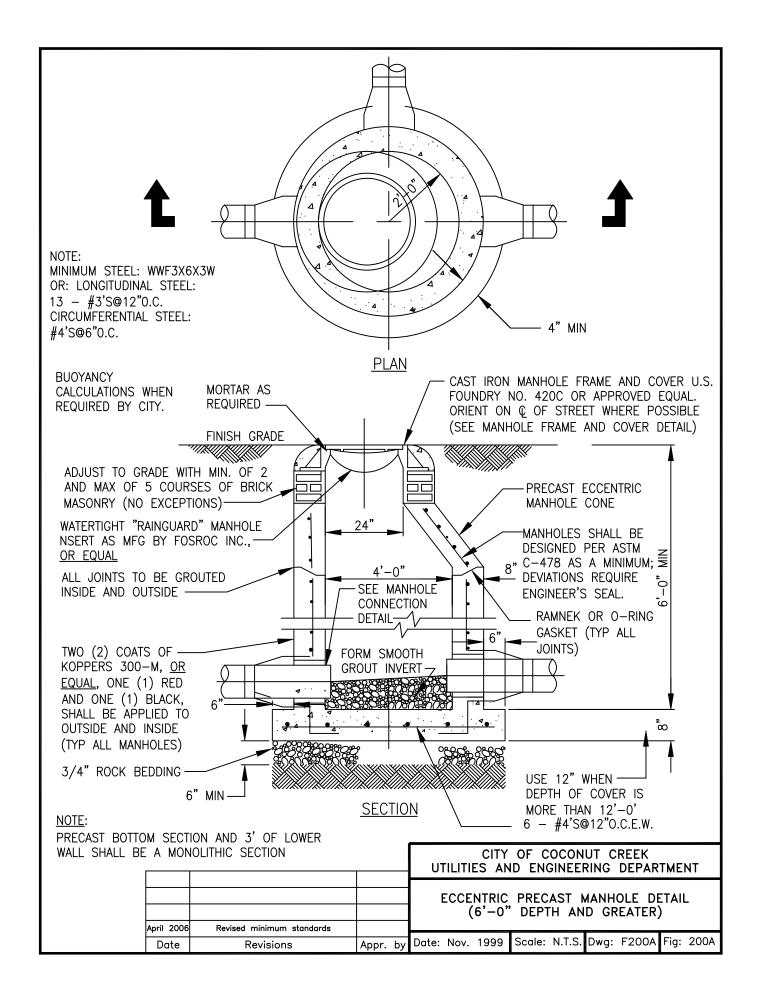


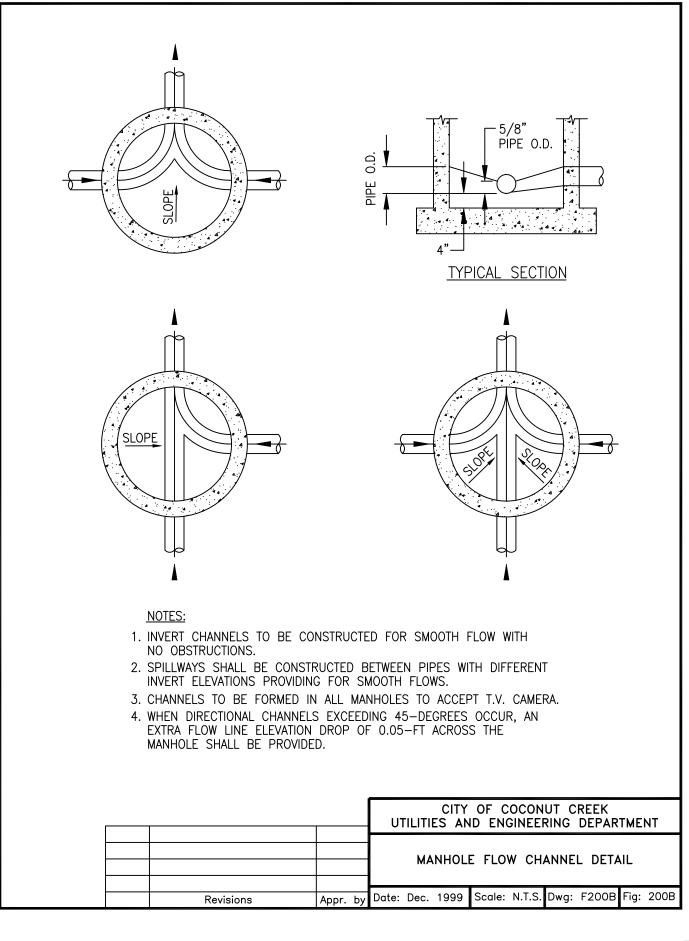


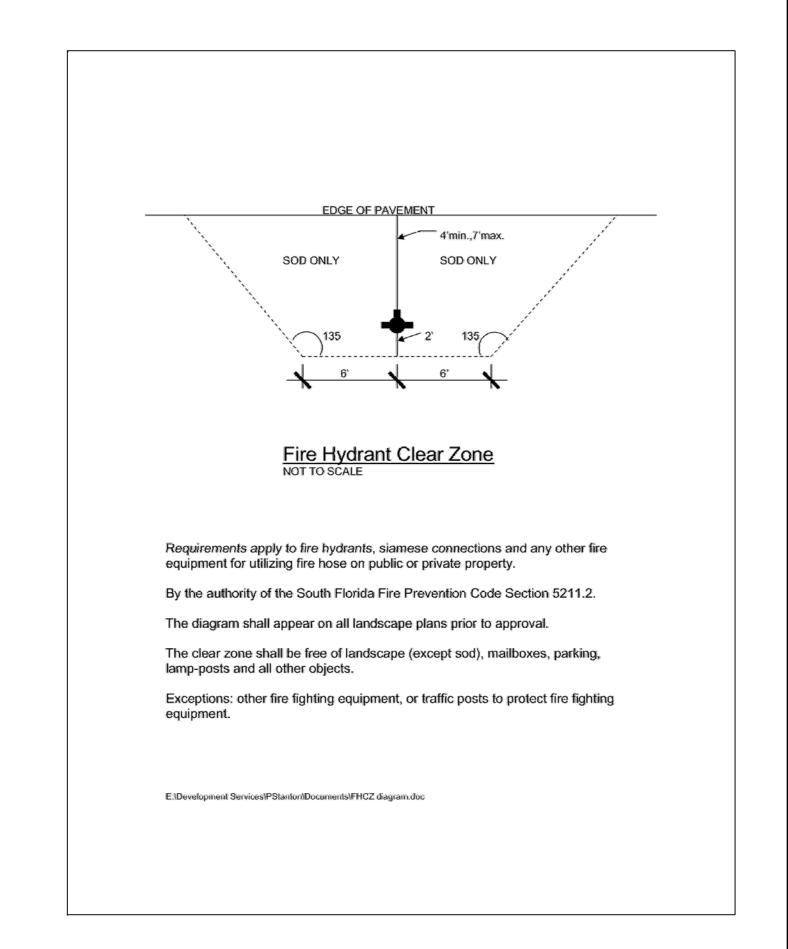
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LAYOUT: [WS3]









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DATE:

Jan. 2013

SCALE:

DESIGNED BY:

DRAWN BY:

JOB NUMBER

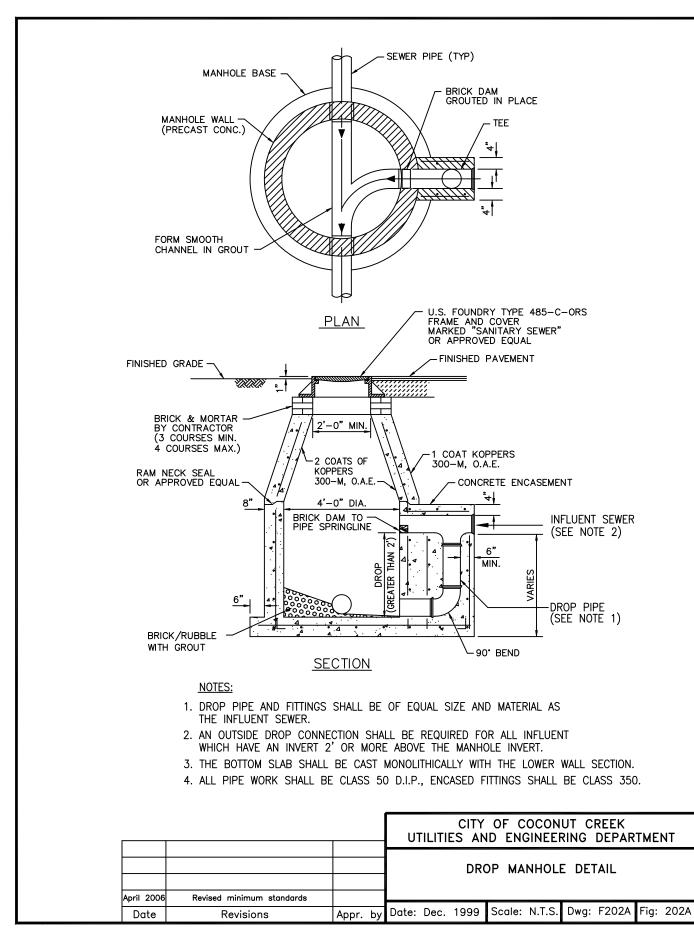
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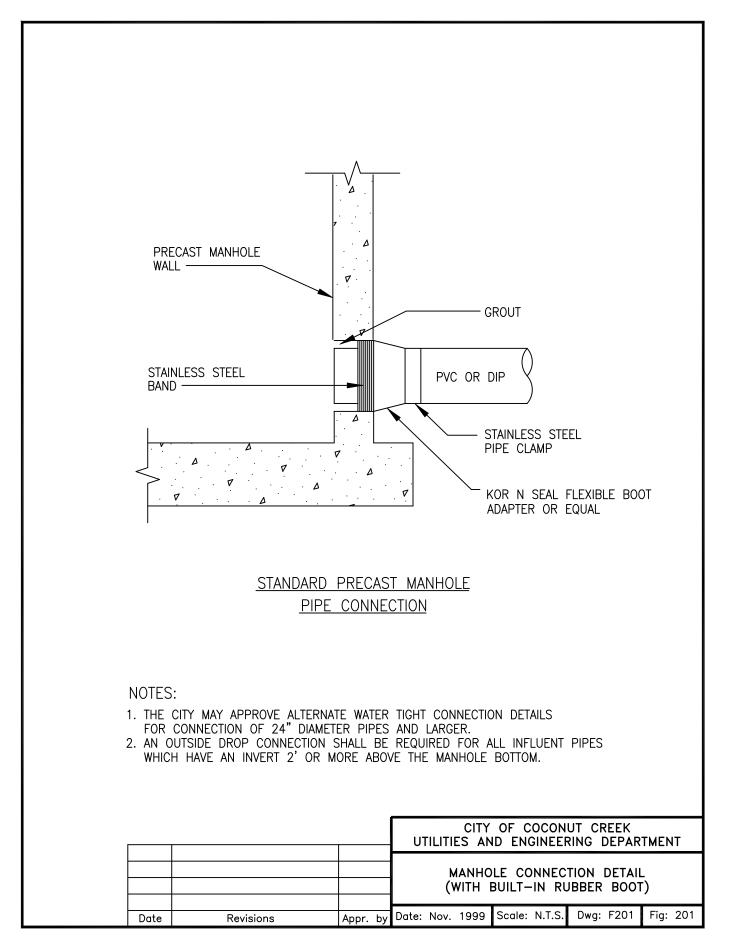
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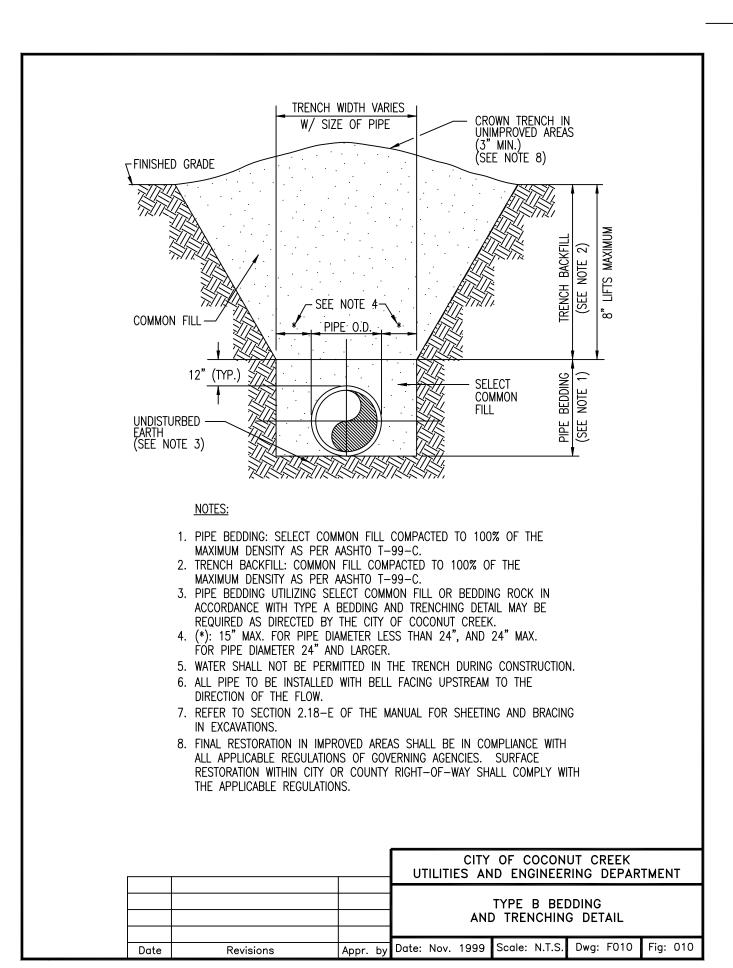
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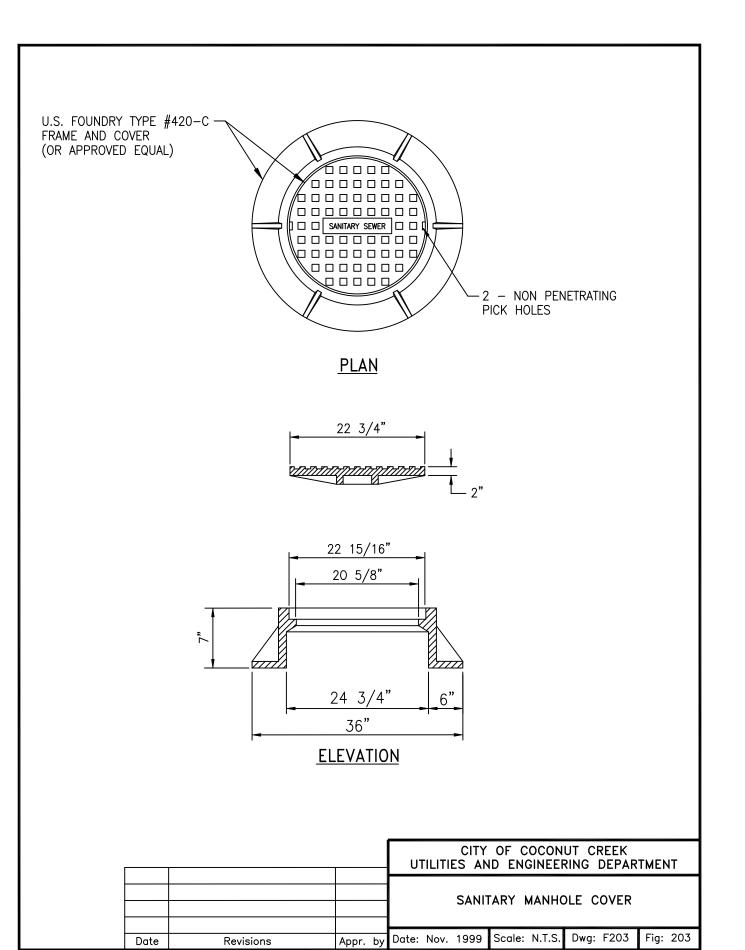
May 28 2013

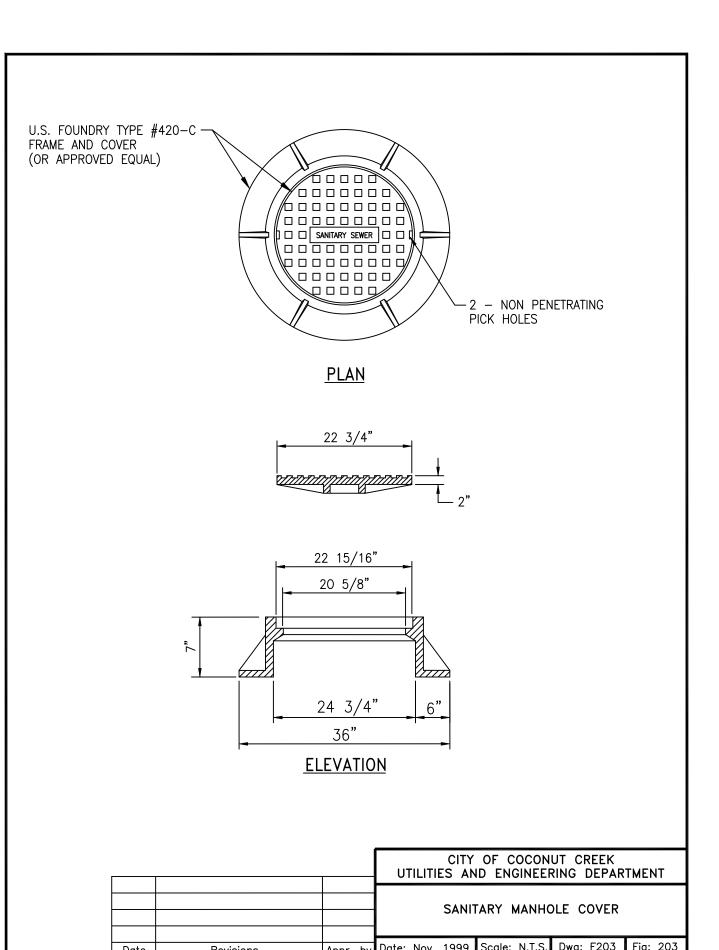
FL. REG. NO. 56890



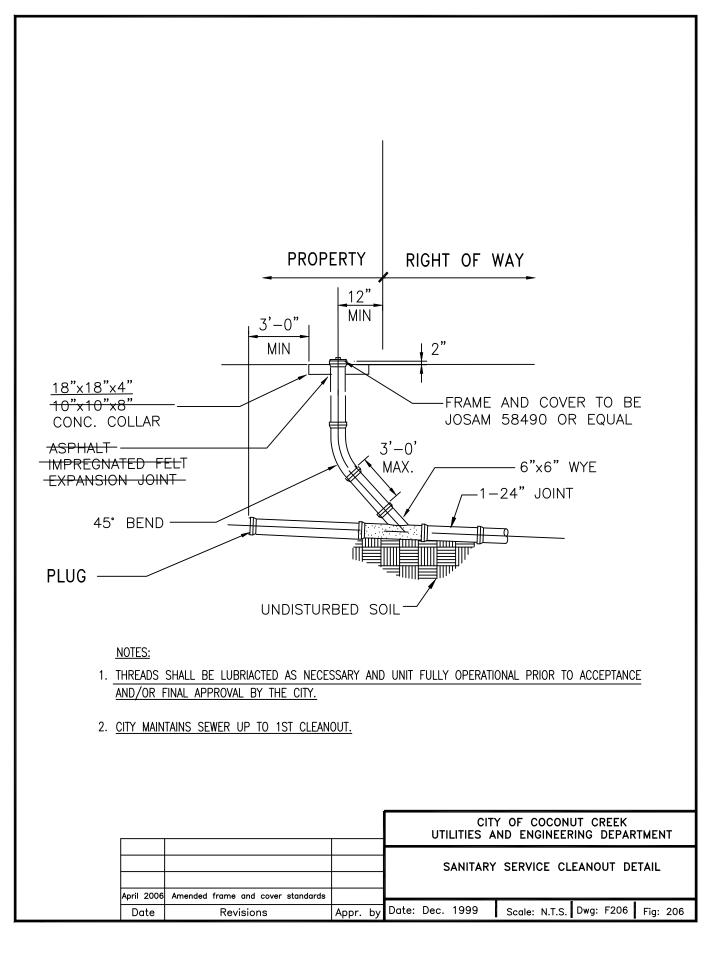


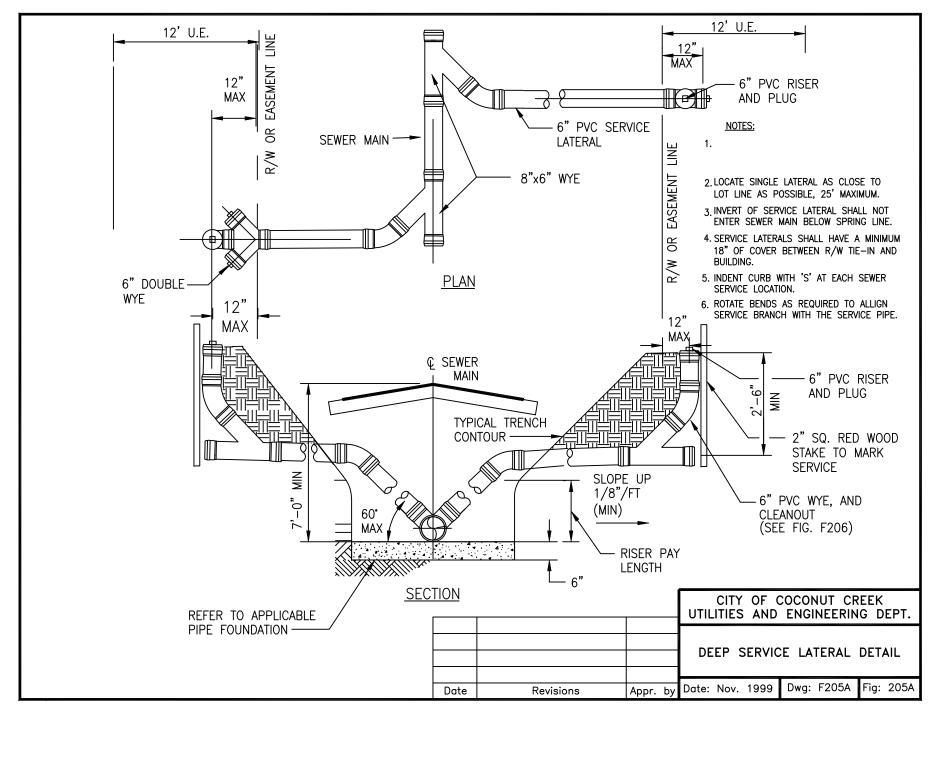


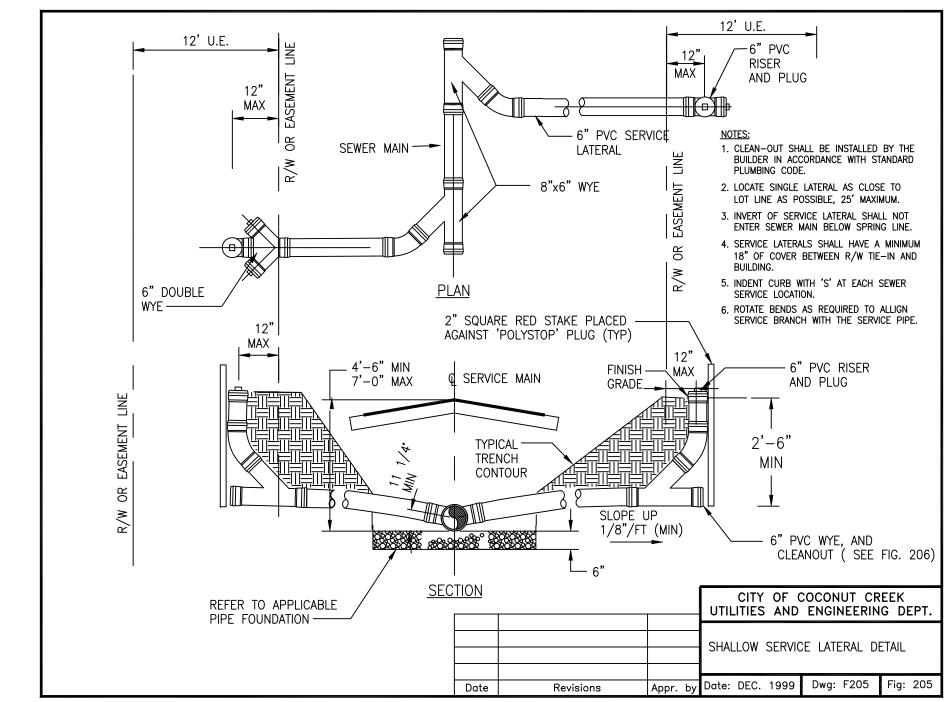


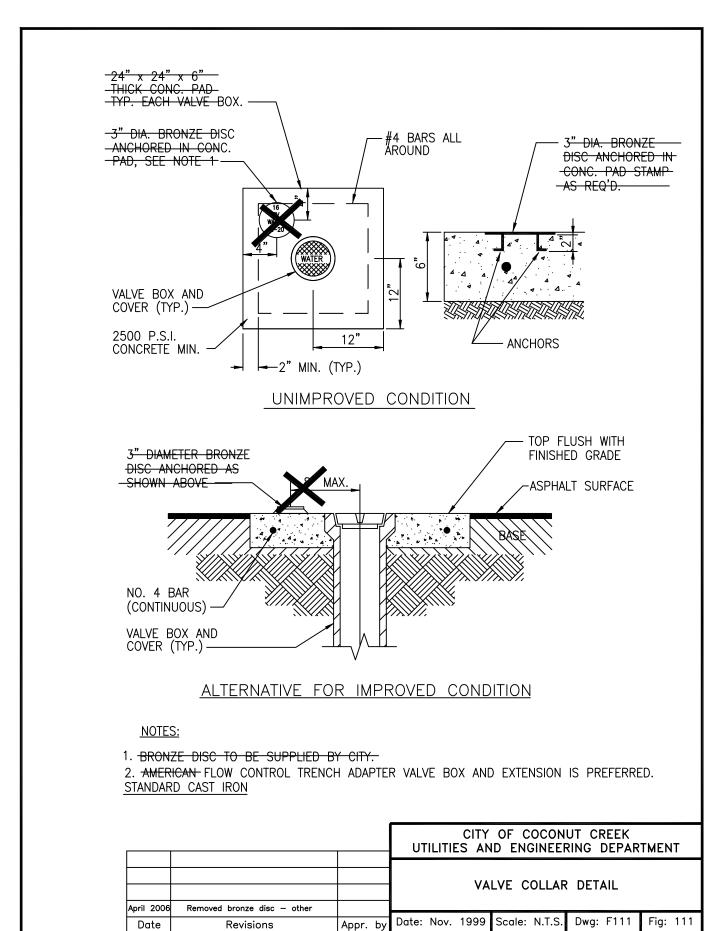


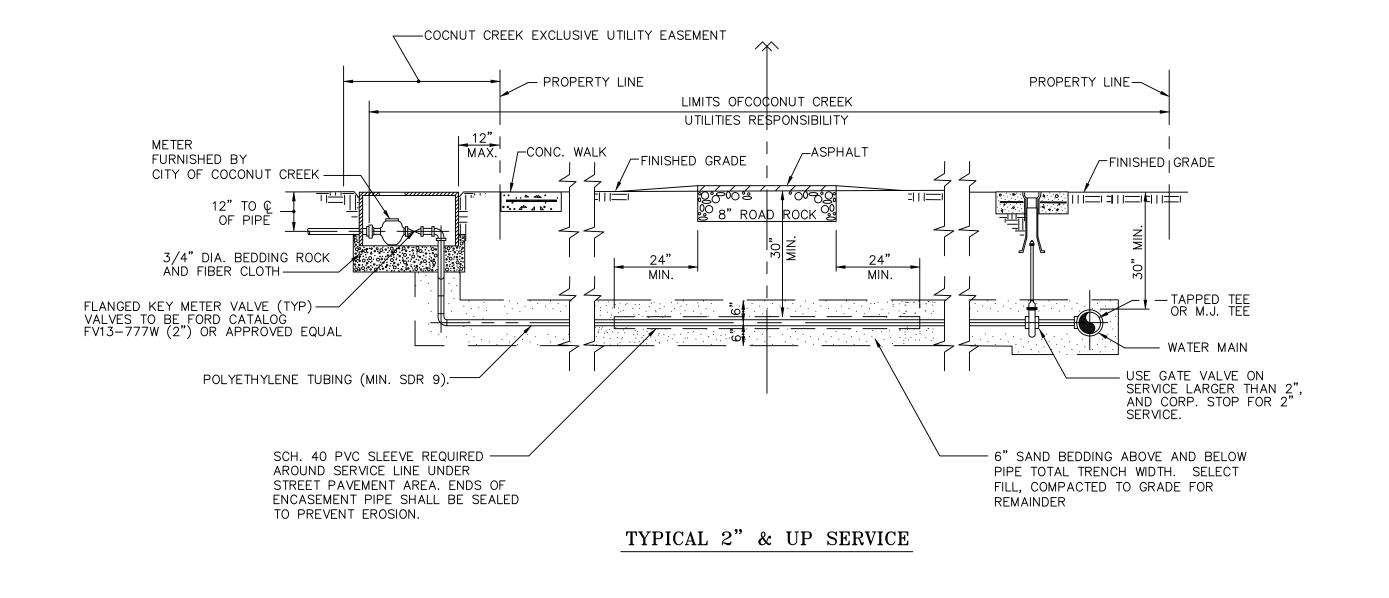
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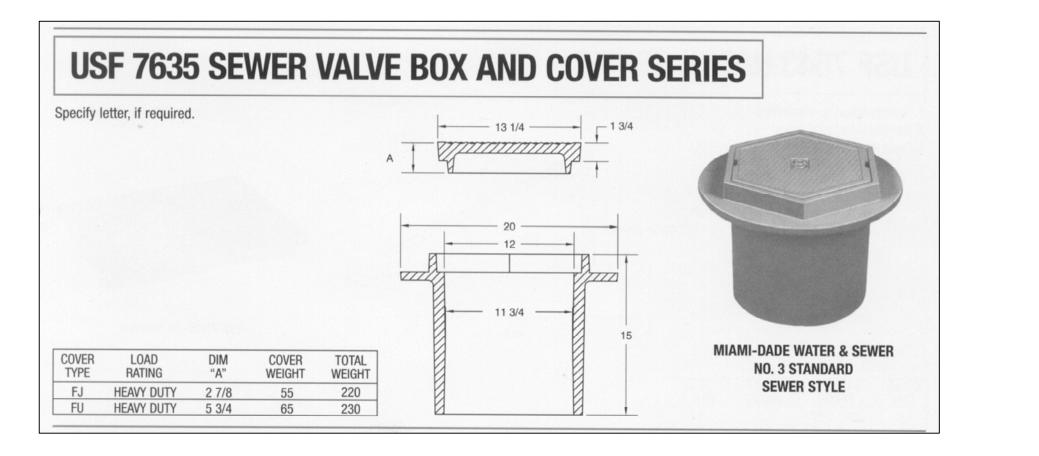












Sun-Tech Engineers - Planners - Surveyors

Vest Oakland Park Boulevard
derdale, FL 33311

Sun-Tech Engineers - Planners - Surveyors

Certificate of Auth. # 7097
Phone (954)777-3123
Eag. (954)777-3123

R E V I S I O N S

ATE: DESCRIPTION

1600 Wesi
Ft. Lauder
www.sunft

JOHNSON TECHNOLOGY CENTER
FORTS

OF COCCONUT CREEK

WATER & SEWER DETAILS

DATE: **Jan. 2013**

SCALE:

DESIGNED BY:

M.G.

DRAWN BY: M.A.S.

JOB NUMBER **12-3516**

SHEET No. WS5

SEAL

May 28 2013

CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890

	131 El / B F VC & 0.41% SLOFE	© 0.41% SLOPE	© 0.41% SLOPE		
	EXISTING MANHOLE RIM EL.= 15.47 I.E.= 6.52(W) I.E.= 6.32(E) I.E.= 6.32(E)	(S) (3) (4) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	RIM EL.= 15.30 I.E.= 5.28(N) I.E.= 5.00(E) I.E.= 5.10(S) I.E.= 5.10(S) I.E.= 5.10(S) I.E.= 5.10(E) RIM EL.= 15.25 I.E.= 3.42(E)	#	
18				18	}
16	PROFILE GRADE LINE			16)
14				14	
12				12) -
10				10)
8				8	
6				6	
4	TIE INTO EXIST. MANHOLE © EL.=6.32			4	
2	 			گـــــ 2	
0				EXIST. 8" STUB OUT I.E.=3.42	

LEGEND

8" DUCTILE IRON PIPE

8" PVC PIPE

8" PVC PIPE (SDR-26)

NOTE:

ALL SANITARY SEWER SHALL BE 8" P.V.C. SDR 35 (UNLESS NOTED OTHERWISE)

FILE: K:\PROJECTS\12-xxx\12-3516\dwg_3516ssp.dwg
PLOT DATE: 5/29/2013 8:30 AM BY: Andy Venneman
LAYOUT: [SS1]

151 LF/8" PVC @ 0.41% SLOPE

54 LF/8" PVC

81 LF/8" PVC

Sun-Tech Engineers - Planners - Surveyors

TECH Engineers - Planners - Surveyors

1600 West Oakland Park Boulevard
Ft. Lauderdale, FL 33311

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Sun-Tech Engineering, Inc

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Phone (954)777-3123

Fax (954)777-3114

OHNSON TECHNOLOGY CENTER

FORTS

OF COCONUT CREEK

SANITARY SEWER PROFILES

DATE: **Jan. 2013**

SCALE: H:1"=30'; V:1"=3'

DESIGNED BY:

M.G.

DRAWN BY:
M.A.S.

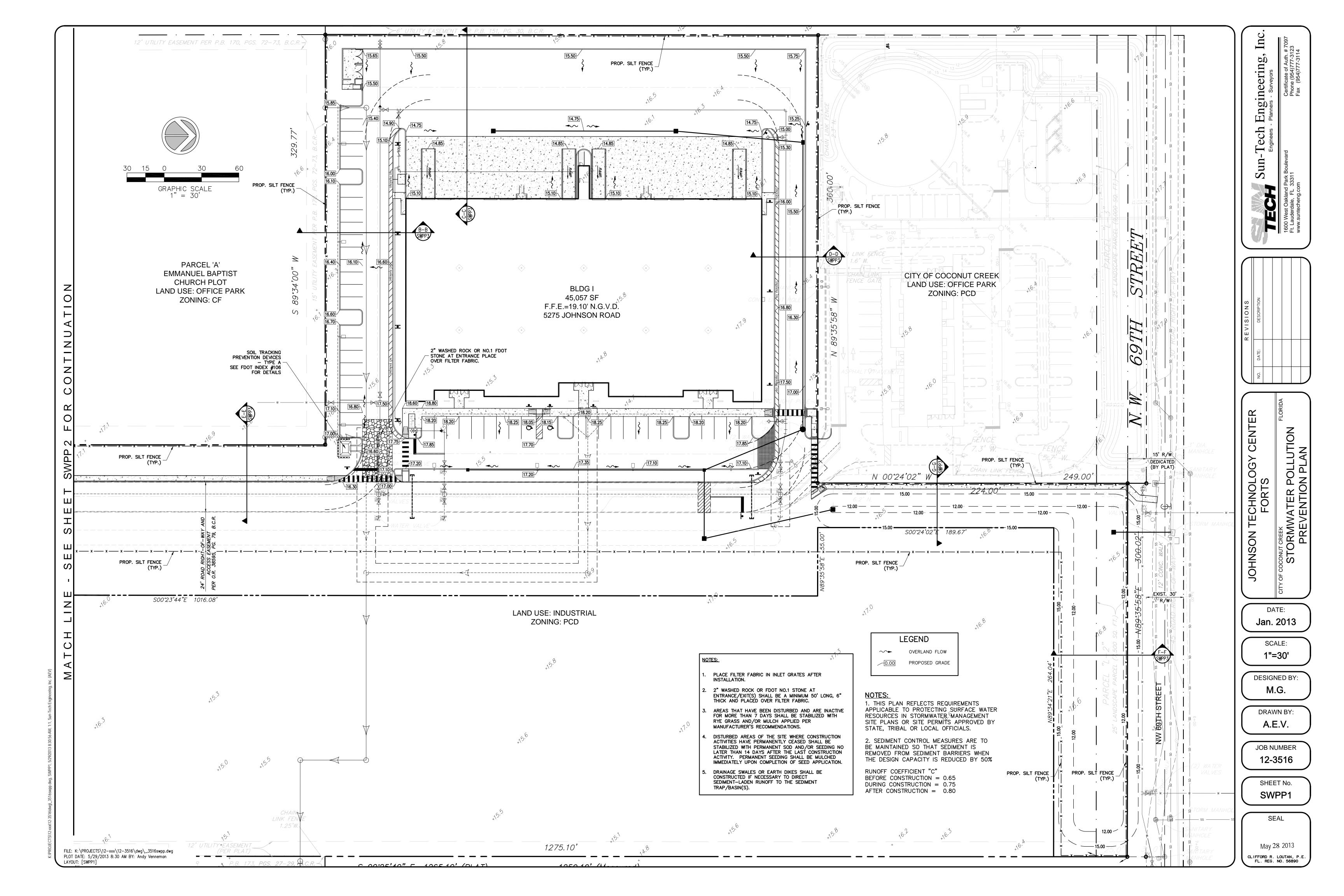
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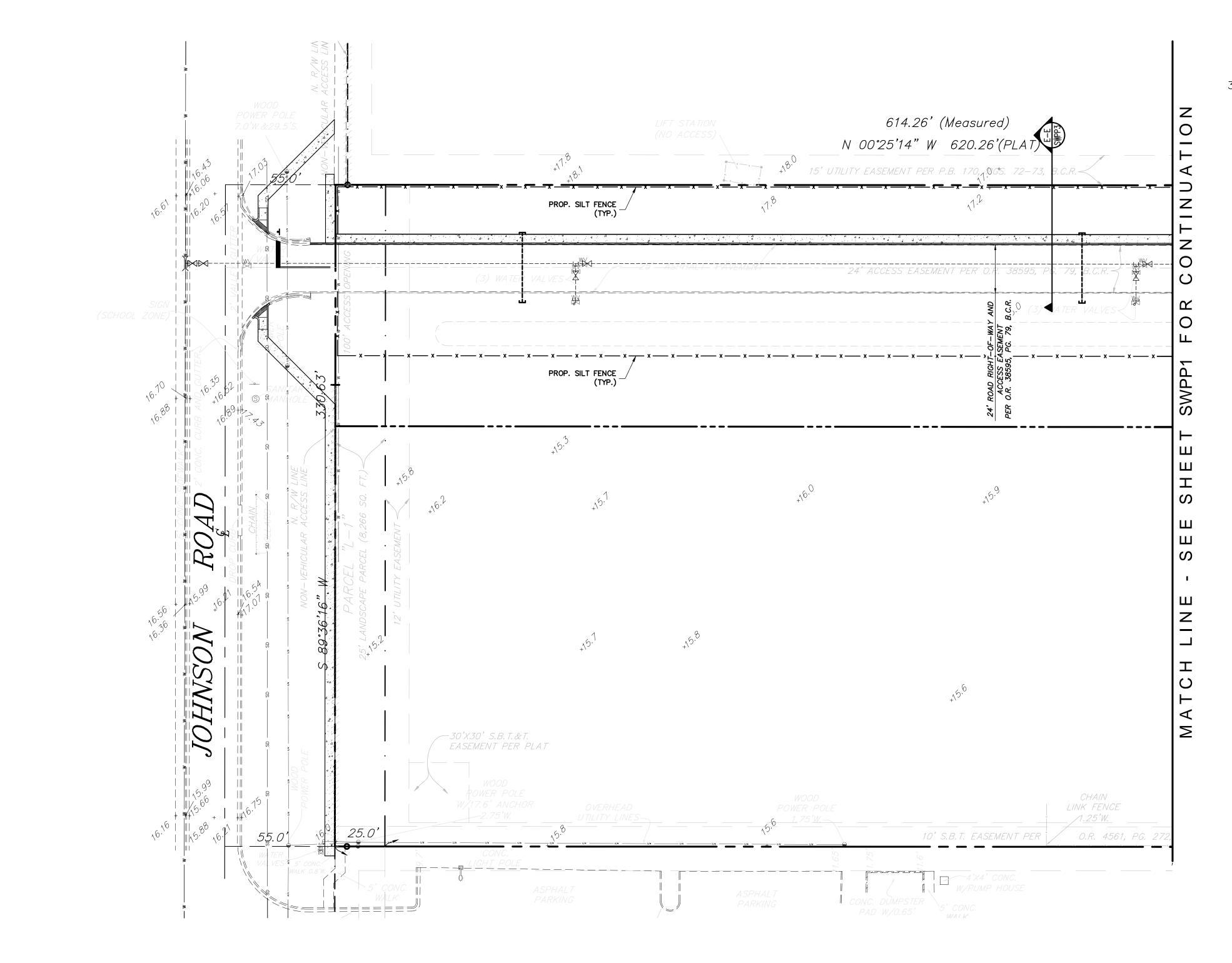
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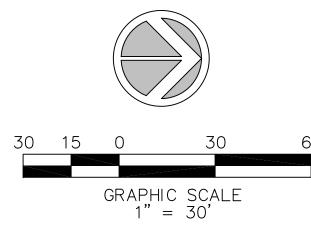
SEAL

May 28 2013

CLIFFORD R. LOUTAN, P.E.
FL. REG. NO. 56890







LEGEND

NOTES: 1. THIS PLAN REFLECTS REQUIREMENTS APPLICABLE TO PROTECTING SURFACE WATER RESOURCES IN STORMWATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY STATE, TRIBAL OR LOCAL OFFICIALS.

2. SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED SO THAT SEDIMENT IS REMOVED FROM SEDIMENT BARRIERS WHEN THE DESIGN CAPACITY IS REDUCED BY 50%

RUNOFF COEFFICIENT "C" BEFORE CONSTRUCTION = 0.65 DURING CONSTRUCTION = 0.75 AFTER CONSTRUCTION = 0.80

NOTES:

- PLACE FILTER FABRIC IN INLET GRATES AFTER INSTALLATION.
- 2" WASHED ROCK OR FDOT NO.1 STONE AT ENTRANCE/EXIT(S) SHALL BE A MINIMUM 50' LONG, 6" THICK AND PLACED OVER FILTER FABRIC.
- AREAS THAT HAVE BEEN DISTURBED AND ARE INACTIVE FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS AND/OR MULCH APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH PERMANENT SOD AND/OR SEEDING NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. PERMANENT SEEDING SHALL BE MULCHED IMMEDIATELY UPON COMPLETION OF SEED APPLICATION.
- DRAINAGE SWALES OR EARTH DIKES SHALL BE CONSTRUCTED IF NECESSARY TO DIRECT SEDIMENT TO THE SEDIMENT TRAP/BASIN(S).

PROPOSED GRADE

JOHNSON TECHNOLOGY FORTS DATE: Jan. 2013

STORMWATER POLL PREVENTION PL

Sun-Tech Engineering, Inc

SCALE: 1"=30'

DESIGNED BY:

DRAWN BY:

JOB NUMBER 12-3516

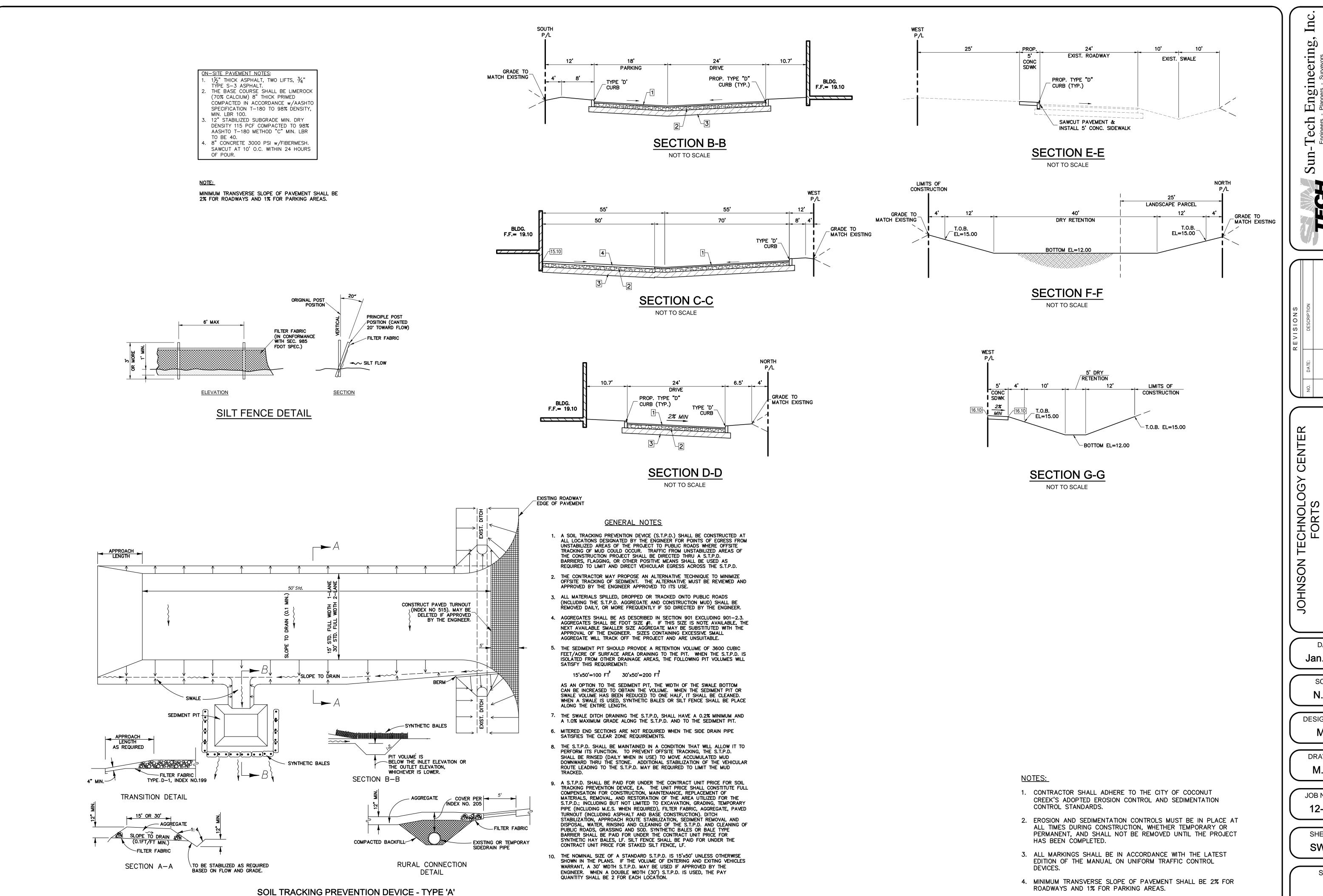
SHEET No.

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May 28 2013 CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890

FILE: K:\PROJECTS\12—xxx\12—3516\dwg_3516swpp.dwg
PLOT DATE: 5/29/2013 8:31 AM BY: Andy Venneman LAYOUT: [SWPP2]

OVERLAND FLOW



FDOT STD. INDEX #106

FILE: K: $\PROJECTS\12-xxx\12-3516\dwg_3516swpp.dwg$ PLOT DATE: 5/29/2013 8:31 AM BY: Andy Venneman

LAYOUT: [SWPP3]

DATE: Jan. 2013 SCALE:

TORMWATER POLI

Engineering

Sun-Tech

DESIGNED BY:

DRAWN BY: M.A.S.

JOB NUMBER 12-3516

SHEET No.

SWPP3

SEAL

May 28 2013 CLIFFORD R. LOUTAN, P.E. FL. REG. NO. 56890

5. ALL ELEVATIONS ARE IN N.G.V.D.