

District No. 2: Heidi Shipley District No. 3: Jason DeLorenzo District No. 4: Steve Nobile

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#### GENERAL NOTES

- THE CONTRACTOR BEFORE SUBMITTING HIS BID, SHALL VISIT AND BE RESPONSIBLE FOR HAVING ASCERTAINED LOCAL CONDITIONS, SUCH AS LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE SITE, EXTENT OF REMOVAL AND INSTALLATION WORK, THE CONTRACTOR SHALL FULLY EXAMINE ALL DRAWINGS RELATED TO THE WORK AND BECOME COMPLETELY INFORMED TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND PREVAILING EXISTING CONDITIONS. NO ALLOWANCES SHALL BE MADE FOR THE CONTRACTOR'S FAILURE TO AVAIL HIMSELF OF INFORMATION.
- CONTRACTOR TO ASSUME RESPONSIBILITY TO CONFORM TO ALL GENERAL NOTES AND SPECIFICATIONS.
- ALL RESIDENTS WHO MAY BE AFFECTED BY CANAL WATER LEVEL CHANGES MUST BE NOTIFIED PRIOR TO 3. WORK BEGINNING

#### AS-BUILT DRAWING REQUIREMENTS

- AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.
- AT THE COMPLETION OF THE WORK, DELIVER THE DRAWINGS DOCUMENTING AS-BUILT INFORMATION, 2. MEASURED BY A LICENSED SURVEYOR TO THE ENGINEER IN GOOD CONDITION AND FREE FROM AND EXTRANEOUS NOTATION. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
  - HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.
  - B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.
  - C. STORMWATER TOP OF BERM AND BOTTOM ELEVATIONS AT A MINIMUM OF SIX LOCATIONS.
  - D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
  - E. STORMWATER TOP AND BOTTOM HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF SIX LOCATIONS, WITH LOCATIONS TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
  - F. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS
  - G. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION
  - VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.
  - HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
  - WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
  - WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

#### EROSION AND SEDIMENT CONTROL

- EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONTRUCT MEASUREMENT OF BE PROVIDED AND INSTALLED PROVE COMMENCEMENT OF CONSTRUCTION. SEDIMENT CONTROL CONSISTS OF SILT FENCING, AND FLOATING TURBIDITY BARRIERS PER FDOT INDEX NO. 102 AND 103, EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.
- MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL EROSION AND SILTATION DURING LIFE OF CONTRACT. OWNER HAS AUTHORITY TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, TRENCHING, BORROW AND EMBANKMENT OPERATIONS. OWNER ALSO HAS AUTHORITY TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES
- CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR MPLEMENT ADDITIONAL MEASURES TO CONTROL EROSION ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.
- INSPECT EVERY TWO WEEKS DURING CONSTRUCTION, OR AFTER A RAIN EVENT. REMOVE ANY SEDIMENT BUILD-UP, REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF INSPECTION REVEALS ADDITIONAL SEDIMENTATION CONTROL IS NECESSAR
- AREAS TO BE PAVED SHALL BE TREATED WITH A BITUMINOUS PRIME COAT AND SANDED TO MINIMIZE EROSION, WHERE PAVING IS SCHEDULED TO CCCUR MORE THAN 48 HOURS AFTER INSTALLATION OF BASE COURSE. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT RSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF INSTALLATION OF THE SUBGRADE. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT
- ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO ABIDE BY THE PROVISIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMITTION PIDES "NOTICE OF INTERT" (N.O.1,) AND "NOTICE OF TERMINATION" (N.O.T.) NOTICES TO THE EPA OR LOCAL STATE AGENCY HAVING JURISDICTION OVER THE MANAGEMENT DISTRICT PERMITS ISSUED TOGETHER WITH THE INSPECTION REPORTS AND CURRENT PLANS, INCLUDIOR ADV MODIFICITIONS PEOLUPED. INCLUDING ANY MODIFICATIONS REQUIRED.

#### TREE REMOVAL

THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED) SO THAT DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER AND ENGINEER.

#### COMPACTION

FILL MATERIALS PLACED UNDER PAVEMENT SHALL BE COMPACTED TO AT LEAST 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. ALL OTHER FILL ARE GAM RADID TO COMPACTED BY MINOUM DENSITI AS DETERMINED BY AASHTO T-180. ALL OTHER FILL ARETALS SRE TO BE CAN LEASH 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12° LIFTS. REFER TO SOLES REPORT FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMI

#### EXCAVATION, TRENCHING, AND FILL

- THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT
- FIELD DENSITY TESTING FREQUENCIES
  - ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING, MINIMUM 2 TESTS EACH LAYER;
- ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER В. STRUCTURES
- ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; C.
- ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL
- ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.
- IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING 3. REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE,
  - ACCEPTABLE MATERIALS AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6, ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP, UNLESS OTHERWISE DISAPPROVED WITHIN THE SOL AND SUBSURFACE INVESTIGATION REPORTS. NO WORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.
  - UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT, UNLESS OTHERWI: APPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.
- PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS
- SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS SHOWN BY THE ENGINEER. IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPERT
- FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED. TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.

#### UTILITY GENERAL NOTES

- THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO ASSUMES NO REVISIONEL NOTICE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES WITH THE OWNER OF MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF NAME THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION WHEN CROSSING AN UNDERGROUND UTILITY. WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ANY UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT. THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSED COORDINATED WITH THE ENGINEER AND THE RESPECTIVE UTILITY COMPANY FOR RELOCATION OR PROPER INSTRUCTION
- A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL CENTER AT LEAST TWO (2) AND NO MORE THAN THE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES. PER FLORIDA STATUTE 553.851, THE CONTRACTOR OR EXCAVATOR IS REQUIRED TO NOTIFY THE GAS COMPANY TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION,
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING 4. ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS, ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER
- TYPICAL DETAILS AS SHOWN ARE TO ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE METHOD OF CONSTRUCTION TO SUBTILIFIELD CONDITIONS, PROVIDING HE SUBMITS A PROPOSAL FOR AN ALTERNATE METHOD TO THE ENGINEER FOR APPROVAL AND USES MATERIALS AS DESIGNATED IN THE
- FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED. THE CONTRACTOR SHALL FIELD VERIFY THE FOR BACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION. DEPTH, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS INCESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE REED FOR ADDITIONAL FITTINOS, BENDS, OR COUPLINSS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES. THEN DETAILS OF SUCH DEPARTURES RELOCATIONS, OR ADDITIONAL FITTINOS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROLECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DEPARTURES FOR THE CONTRACTOR'S CONSULTIONS OF THE PROLECT AND THE CONTRACTOR'S CONSULTIONS OF THE PROLECT AND THE CONTRACTOR'S CONSULTIONS OF THE PROLECT AND THE CONTRACTOR'S ON ADDITIONAL IFTINGS. THE CONTRACTOR'S CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER
- THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PLIMPING FOLIDEMENT THE CONTRACT OF SHALL PROVIDE AT HIS OWNER PARTIES ALL RECESSANT TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING, THE CONTRACTOR SHALL CONTRACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY-CIENT (4) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

#### GRADING

- GRADING SHOWN ON THESE PLANS ARE PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE BUTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
- UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SUR SHALL BE REASONABLY SMOOTH, COMPACTED. FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE\_GRADER OPERATIONS. SHED SURFACES
- SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF %-INCH PER FOOT FOR 10 FEFT FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE
- 4. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE\_ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER AND ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE CLUTTER ADDITIONAL COST TO THE DESTRICT ON ADDITIONAL COST TO THE

#### SIGNS AND PAVEMENT MARKINGS

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND THE LATEST IMPLEMENTED EDITION OF FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS, STANDARD INDEXNO, 935, 11860, 11862, 11802, 11302, 11366, 11302, 11349 APPLY, GENERALLY, ALL MARKINGS SHALL CONFORM TO THE FOLLOWING: 6" EDGE LINES, 6" LANE LINES, 6" SINGLE CENTERLINES, AND 6" DOUBLE LINE PATTERNS, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.
- PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF 3. FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAI
- ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL RINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION. THE FABRICATOR'S INITIALS, AND THE MANE OF THE SHEETING IN TREE-INCH LETTERS.
- 5, INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE
- THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION
- ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO
- PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS 8. REQUIRED.

## SITE PREPARATION

- UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWNINGS. AT NO TIME SHALL THE CONTRACTOR DISTURE SURROUNDING PROPERTIES OR TRAVEL ON CHEROLINGED DOSCRETE AND CHEVE AND CHEVEN ADDRESS OF TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER, ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS, ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.
- STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERITY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES, REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE
- PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.
- WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW WITHIN THE NIGHT-OF-WAT, EASEMENTS, AND OWNER SECURITY PROFERTT, THE INTENT IS IT ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURR, OR OUTSIDE THE LIMTS OF EXCANATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT MODE PATH, CENTERED ON THE PIPELINE.
- TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD
- AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES, REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE
- CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.
- EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.
- GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2' IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.
- 10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

## R/W RESTORATION

ALL AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL NON-PAVED AREAS WITHIN THE R/W THAT ARE ADJACENT TO COMMON AREAS SHALL BE COMPLETELY SODDED FOLLOWING FINAL GRADING. NON-PAVED AREAS WITHIN THE R/W SHALL BE STABILIZED WITH SOD. ALL DRAINAGE SWALES AND RETENTION/DETENTION POND AND LAKE SLOPES SHALL BE STABILIZED WITH SOD IMMEDIATELY AFTER FINAL GRADING. UNLESS OTHERWISE NOTED, OTHER DISTURBED AREAS SHALL BE STABILIZED WITH SEED AND STRAW AFTER FINAL GRADING AND PRIOR TO FINAL INSPECTION ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR. THE USE OF SEED AND STRAW SHALL ONLY BE USED WITH P

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Chk. by: MCB	Date: 10/22/2014	File: BS-2 Weir.dwg	NOTES				CONSTRUCTION DOCUMENTS	CALM- COAST	Palm Coast, Florida 32164	
App'd by: JCM	Date: 10/22/2014						CONSTRUCTION DOCUMENTS	ACORPORATED 1998		

#### DEWATERING AND WATER CONTROL

- DESIGN AND PROVIDE DEWATERING AND WATER CONTROL SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE A SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL WATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS.
- CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD
- OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FLOW FUNCTION OF THE GROUND, OR INSTABILITY OF SLOPES, SUMPS SHALL BE LOCATED LOSS OF FLORES. SOFTEXING OF THE GROUND, OR INSTABILITY OF SLOPES, SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED, WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS, DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELL(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED S PPM.
- IF DEWATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING
  - 6" PUMP VOLUTE
  - 100.000 GPD TOTAL 24 HOUR (1 DAY) DEWATERING AND
- 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.
- CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE
- WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE. INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.
- UPSTREAM AND DOWNSTREAM ELEVATIONS MUST BE MAINTAINED WITHIN 1 FOOT OF THE DESIGN ELEVATION, EITHER BY SHEET PILING OR OTHER TEMPORARY DAMMING METHODS.
- THE CONSTRUCTION METHODS / PHASING USED SHALL ALLOW FOR THE UPSTREAM CANAL TO CONTINUE TO 8. DISCHARGE IN A RAINFALL EVENT.
- THE CITY OF PALM COAST MUST APPROVE ALL DE-WATERING METHODS PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR DE-WATERING THROUGHOUT PROJECT TIME. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED WITH THE EXCEPTION OF NAMED TROPICAL EVENTS.

#### PERMITS AND PERMIT REQUIREMENTS

- THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER COPIES OF ALL REGULATORY AGENCY PERMITS AND I COAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS.
- CONTRACTOR SHALL APPLY FOR AND RECEIVE A SITE DEVELOPMENT PERMI

#### SITE ACCESS

- ACCESS TO THE JOB SITE FOR CONSTRUCTION PURPOSES AND RELATED ACTIVITIES SHALL BE AS DESIGNATED BY OWNER AND ENGINEER.
- 2. SECURITY OF SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

#### TRAFFIC CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTEMANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TARFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. ALL PROPOSED ROADWAY AND DRIVEWAY LANE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.
- ALL CONSTRUCTION SIGNING AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND 2. MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NO. 600 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE PLACEMENT OF THE SIGNING AND MARKINGS SHALL BE APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO CONSTRUCTION
- INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
- CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
- WET UNSTABILIZED AREAS AS NECESSARY TO CONTROL DUST
- ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS
- THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE
- WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 600 AND 602.
- TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINFA TO THE EDGE OF 9. TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALOID THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCKENTRANCE INTO COULETED. OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE DEEN TO RUBBLE USE.

- WARAT.

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sheet 1 of 13

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#### APPLICABLE CODES

ELORIDA BUILDING CODE 2010 EDITION FLORIDA PLUMBING CODE 2010 EDITION NATIONAL ELECTRICAL CODE 2010 EDITION FLORIDA MECHANICAL CODE 2010 EDITION FLORIDA FIRE PREVENTION CODE 2010 EDITION

# BS-2 WEIR REPLACEMENT

## STRUCTURAL GENERAL NOTES

#### GENERAL CONDITIONS

- IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 3. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWING
- CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED, CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED 5. HIMSELF WITH ALL EXISTING CONDITIONS, ANY QUESTIONS OR DISCREPANCIES FOUND WITH REGARD TO THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY BEFORE SUBMITTING A PROPOSAL FIELD MEASURE EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS.

#### FOUNDATIONS

- EARTHWORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED SOIL TESTING COMPANY TO ASSURE COMPLIANCE WITH REQUIREMENTS OF THE SOILS REPORT AND SPECIFICATIONS. 1.
- 2. ALL FOOTINGS SHALL BE CENTERED UNDER THE COLUMN OR WALL ABOVE UNLESS NOTED OTHERWISE.
- BACKFILL AGAINST A WALL SHALL BE PLACED EVENLY ON BOTH SIDES OF THE WALL UNLESS THE WALL IS FULLY BRACED BY THE CONTRACTOR FOR LATERAL PRESSURE. SUCH BRACING INCLUDING ITS DESIGN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL AFTER THE FLOOR SLAB OR OTHER STRUCTURAL ELEMENT BRACING THE WALL HAS BEEN CONSTRUCTED TO THE SATISFACTION OF THE ARCHITECT.

#### STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION. 1.
- 2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING
- BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS" AS APPROVED BY THE COUNCIL ON RIVETED AND BOLTED JOINTS, USE BEARING TYPE BOLTS WITH THREADS ALLOWED ACROSS THE SHEAR PLANE. ANCHOR BOLTS SHALL CONFORM TO ASTM A-36.
- STRUCTURAL STEEL SHAPES, PLATES, ETC. SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36, EXCEPT ALL WDE FLANGE SECTIONS SHALL BE ASTM A992. UNLESS NOTED OTHERWISE, STEEL TUBES SHALL BE 46 KSI STEEL CONFORMING TO ASTM A-500.
- 5. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS BE BOLTED EXCEPT WHERE NOTED OTHERWISE.
- VERIFY THE EXACT LOCATION AND SIZE OF ALL ROOF AND FLOOR OPENINGS FOR MECHANICAL FOURMENT. 6 WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS. SEE TYPICAL DETAIL FOR FRAMING AROUND OPENINGS.
- PROVIDE ONE COAT OF STANDARD SHOP PAINT ON ALL UNGALVANIZED PIECES EXCEPT AT AREAS TO BE FIELD WELDED.
- TOUCH UP FIELD WELDS AND ANY DAMAGED AREAS OF PAINT IN FIELD AFTER WELDING. (USE GALVANIZING PAINT FOR TOUCH UP OF GALVANIZED STEEL).
- ALL WELDS SHALL BE VISUALLY INSPECTED BY AN APPROVED LICENSED TESTING COMPANY. SEE 9 SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.

1. ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

# 3000 PSI FIBER REINFORCED (OR AS NOTED ON PLANS) 3000 PSI SLAB ON GRADE, FOOTINGS 4000 PSI REMAINING CONCRETE

CAST IN PLACE CONCRETE

- 2. ALL CONCRETE SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2 TO 4% AIR ENTRAINMENT. A MAXIMUM WATER/CEMENT RATIO OF 0,56,
- CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 CHAPTER 3. METHOD 1 OR METHOD 2. SUBMIT BACKUP DATA AS REQUIRED BY CHAPTER 5 SECTION 5.3. OF THE LATEST EDITION OF ACI 318.
- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 4. GRADE 60.
- 5 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A485, WW F, SHALL BE LAPPED AT LEAST 8" AND CONTAIN WEDED WIRE PARIO STALL CONFORM TO ASTIM AHOS, WWY, SHALL BE DAPED AT LEAST 8 AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE "AT GROUND FLOOR SLAB 112 LBS, OF POLYPROPYLENE FIBROUS REINFORCEMENT PER CU, YD, OF CONCRETE MAY BE USED IN LIEU OF W.W.F. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR
- REINFORCED CONCRETE" ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301, ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING.
- REINFORCED CONCRETE STRUCTURES" ACI 315 LATEST EDITION. UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS
- CONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAMINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC. REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. 8.
- 9, CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
- 10. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS. THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT NCLUDED. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLABS EDGES
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING 11. STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- 12. CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CORNERS
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT: 3° CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. 2° CONCRETE EXPOSED TO EARTH OR WEATHER, #5 THROUGH #18 BARS. 1-12° CONCRETE EXPOSED TO EARTH OR WEATHER, #5 BAR AND SMALLER. 13.

  - 1-1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH FOR THE PRIMARY
  - REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS IN BEAMS AND COLUMNS; 3/4" CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH FOR SLABS, WALLS, AND JOISTS, #11 BAR AND SMALLER. (OR AS NOTED ON PLANS)
- HORIZONTAL WALL AND FOOTING BARS SHALL BE BENT 1-0° AROUND CORNERS OR CORNER BARS WITH 2'-6" LAP SHALL BE PROVIDED. 14.
- HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS SHALL BE PROVIDED IN BEAMS, SUPPORTED SLABS, AND WALL FOOTINGS WITH A DEPTH OF 1-1/2' AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON 15, THE DRAWINGS. CONSTRUCTION JOINTS MAY BE USED ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AT OTHER LOCATIONS APPROVED BY THE ARCHITECT.
- MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS TYP, EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS. FOR BEAMS AND ELEVATED SLABS, LAP BOTTOM STEEL AT THE SUPPORT AND TOP STEEL OVER THE MIDSPAN, UNLESS OTHERWISE NOTED. 16.
- 17. TESTING LABORATORY SHALL SUBMIT ONE COPY OF ALL CONCRETE TEST REPORTS DIRECTLY TO THE ENGINEER

#### TESTING

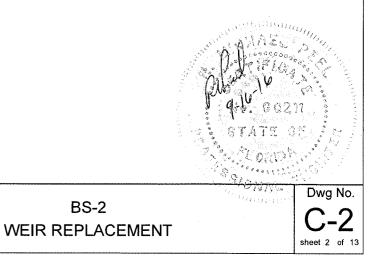
- A MINIMUM OF FIVE (5) CYLINDERS AND SLUMP TESTING SHALL BE PROVIDED FOR EACH DELIVERY TRUCK UNLESS OTHERWISE SPECIFIED BY CITY.
- 2. CYLINDER TEST SHALL BE PERFORMED TO CURRENT INDUSTRY STANDARDS.
- TESTING SHALL BE PERFORMED BY AN INDEPENDENT LICENSED TESTING AGENCY. 3.
- ADDITIONAL TESTING, AS REQUIRED, WILL BE AT NO ADDITIONAL COMPENSATION. 4
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MITIGATION OF ANY TESTING FAILURES AS DIRECTED BY THE STRUCTURAL ENGINEER. AT NO ADDITIONAL COMPENSATION.

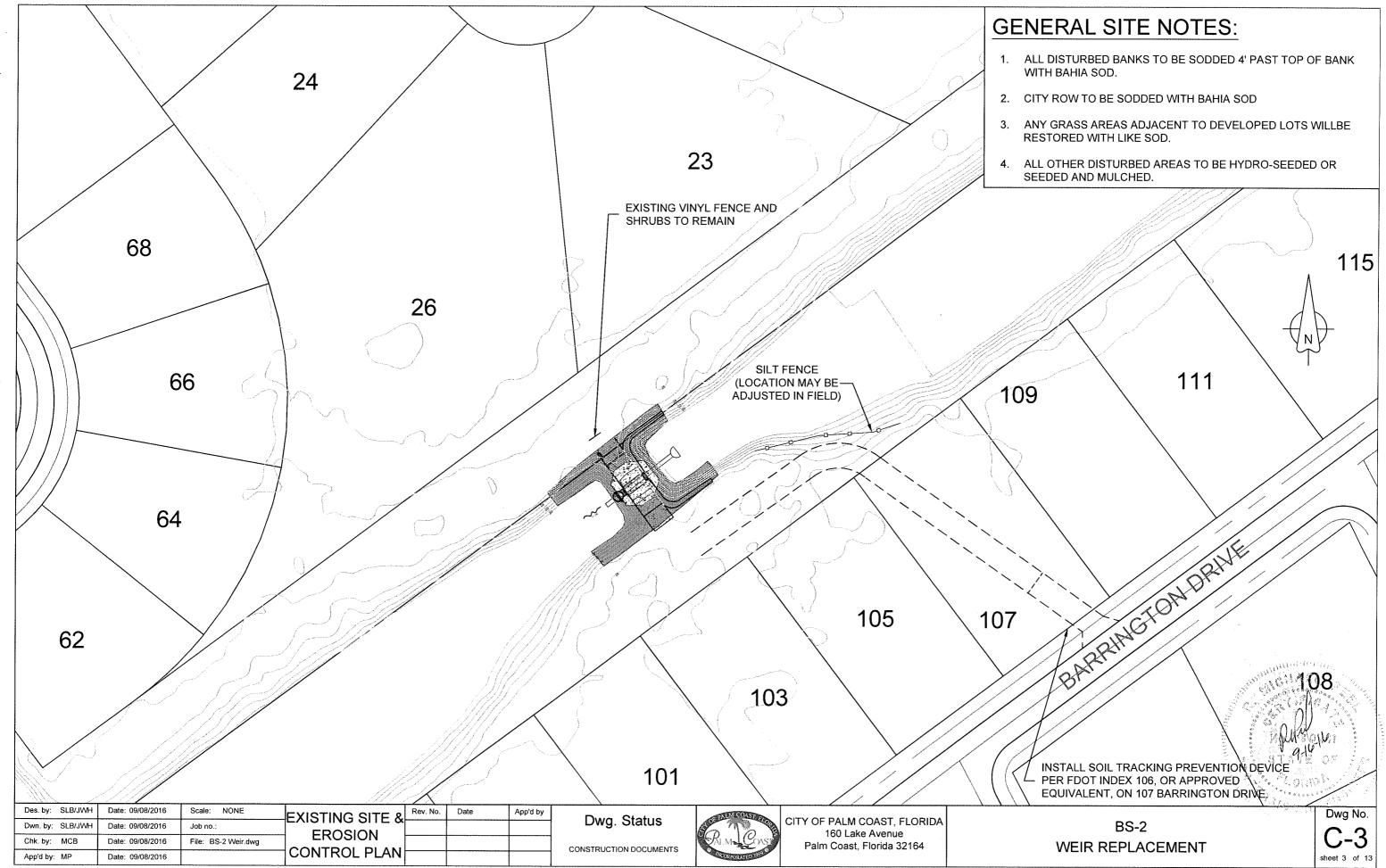
Des. by: SLB/JWH	Date: 10/22/2014	Scale: NONE		Rev. No.	Date	App'd by	Diver Otativa	PAINCOAST	
Dwn. by: SLB/JWH	Date: 10/22/2014	Job no.:	STRUCTURAL				Dwg. Status	Sector Party Court and	CITY OF PALM COAST, FLORIDA 160 Lake Avenue
Chk. by: MCB	Date: 10/22/2014	File: BS-2 Weir.dwg	NOTES				CONSTRUCTION DOCUMENTS	CALM-LCOAST	Palm Coast, Florida 32164
App'd by: JCM	Date: 10/22/2014						SCHOLLOG HON DOCOMENTS	ACORPORATED 1999	

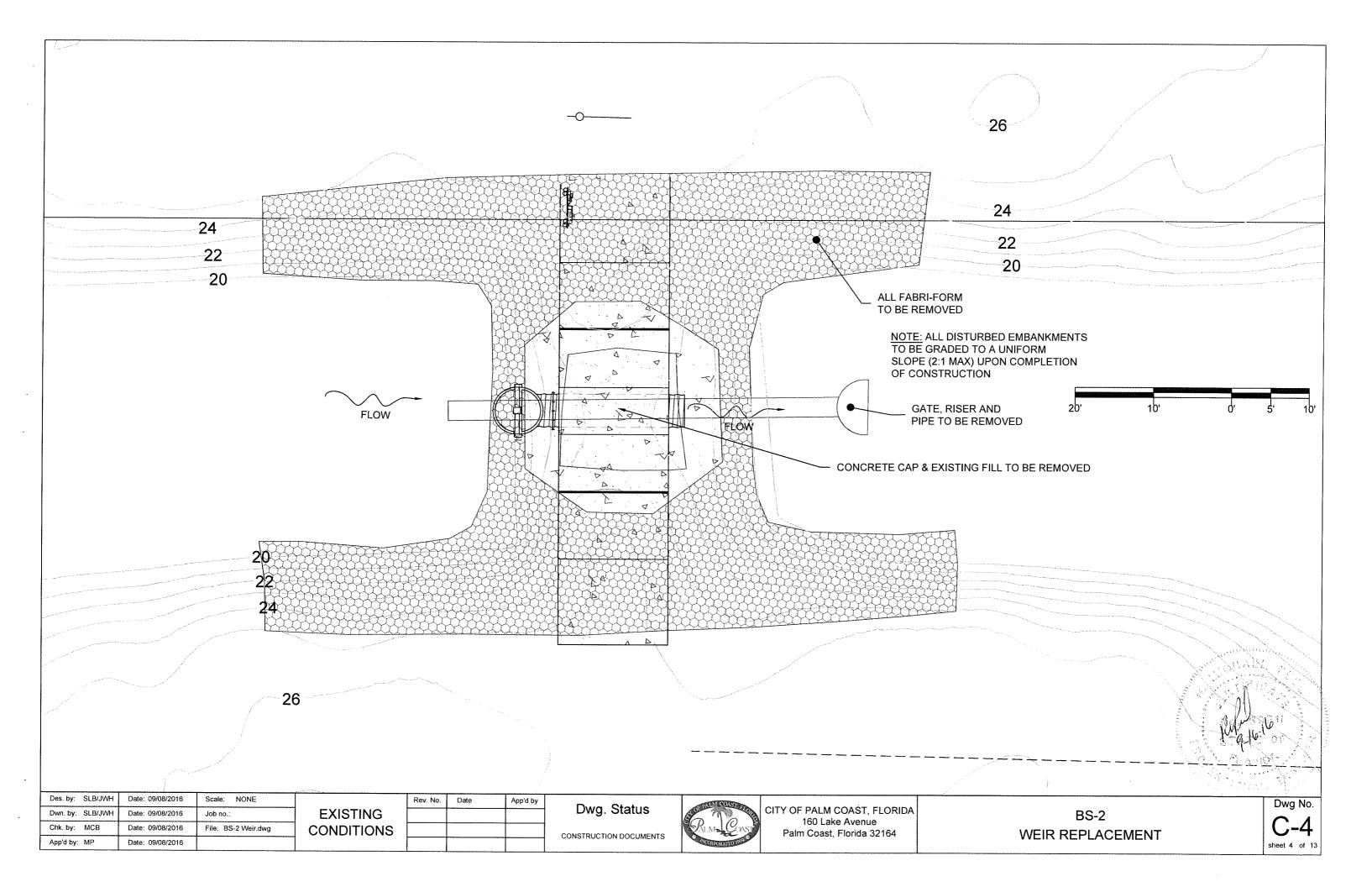
DIA. EL. HWL INV. LBS NTS NWL SQ FT TBD TBM T.O.B. TYP OE 0.C. WM

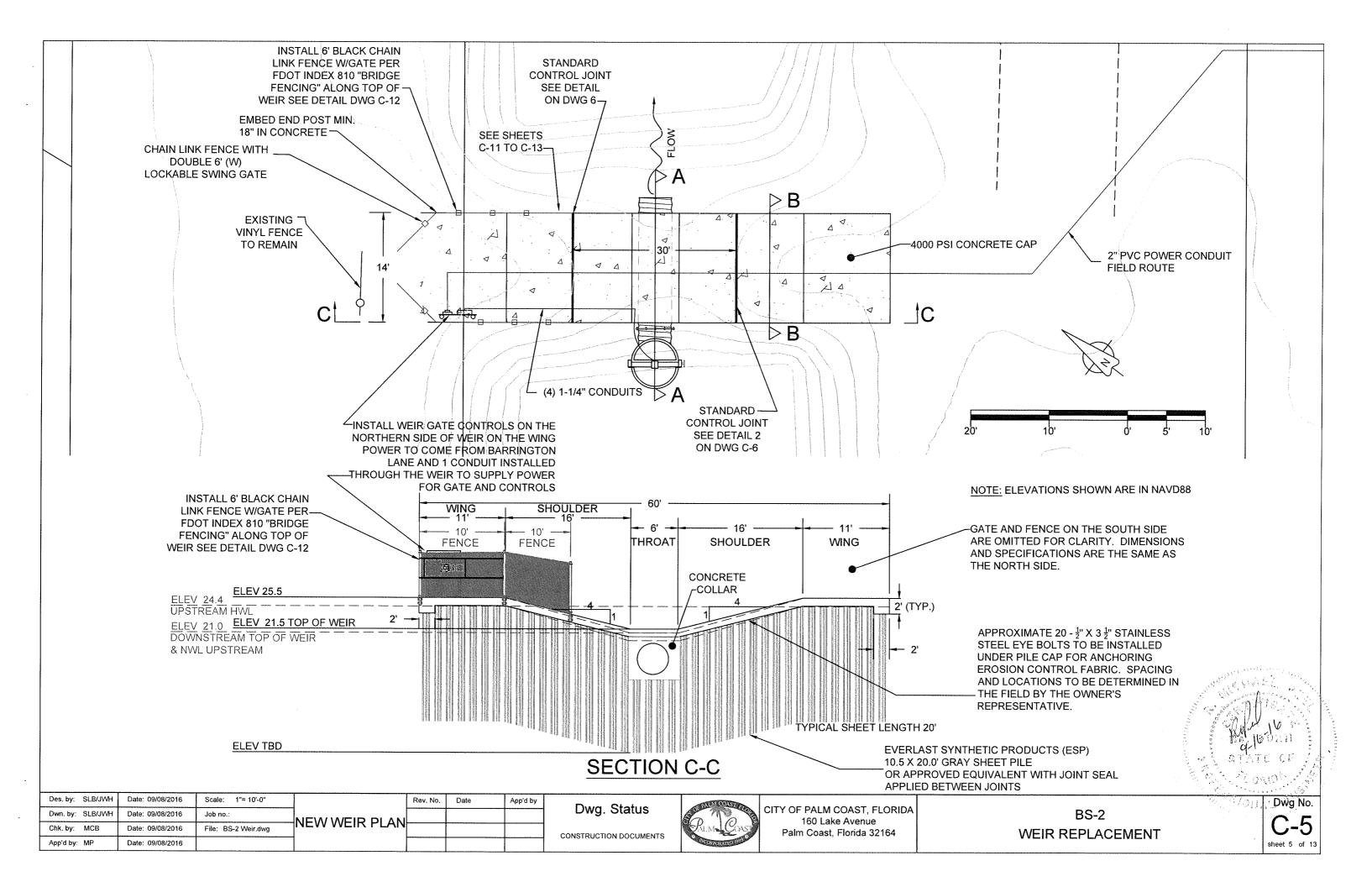
#### ABBREVIATIONS ACMP CMP

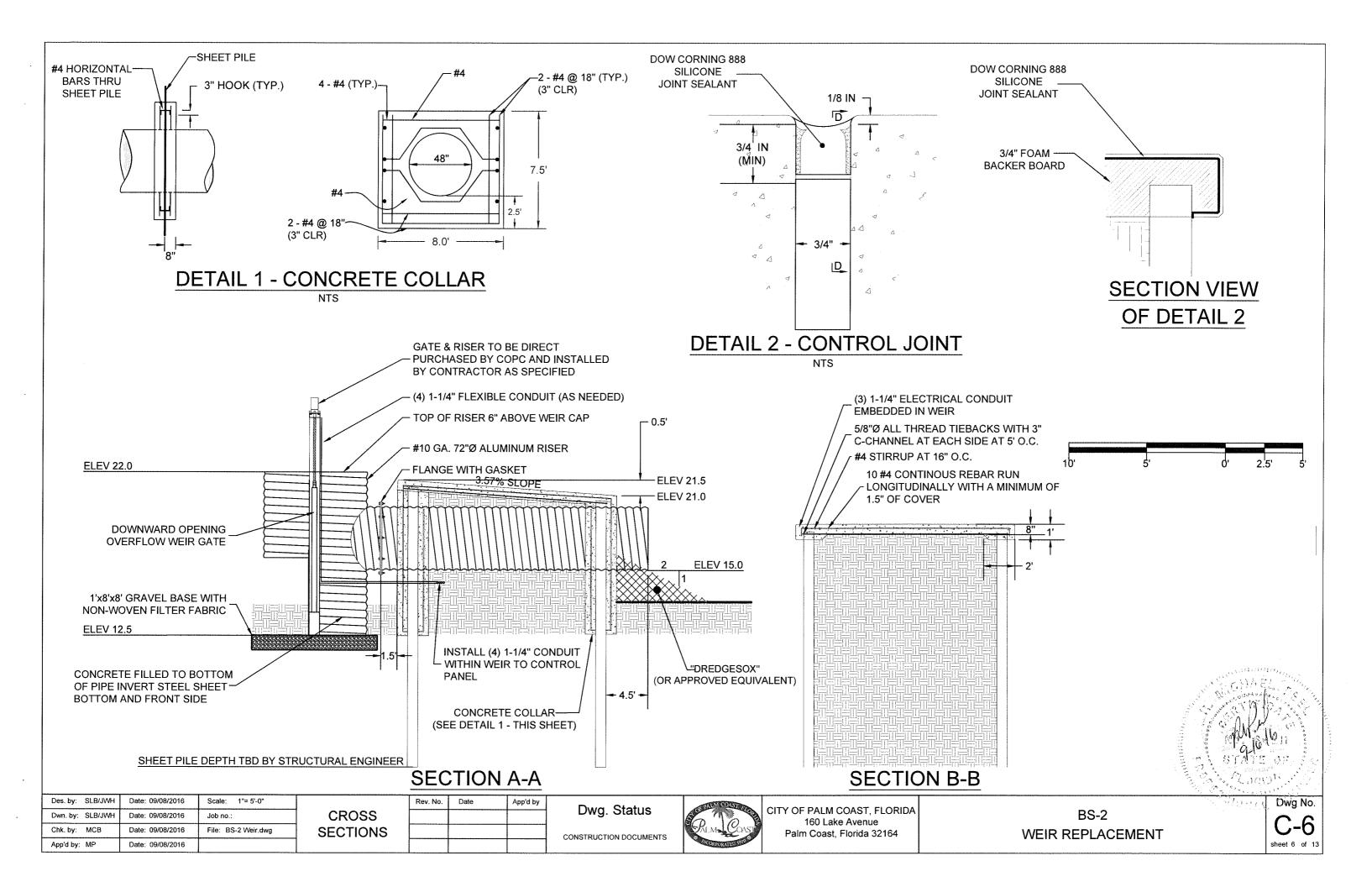
ALUMINIZED CORRUGATED METAL PIPE CORRUGATED METAL PIPE DIAMETER ELEVATION HIGH WATER LEVEL INVERT POUNDS NOT TO SCALE NORMAL WATER LEVEL SQUARE FEET TO BE DETERMINED TEMPORARY BENCHMARK TOP OF BERM TYPICAL OVERHEAD ELECTRIC ON CENTER WATERMAIN

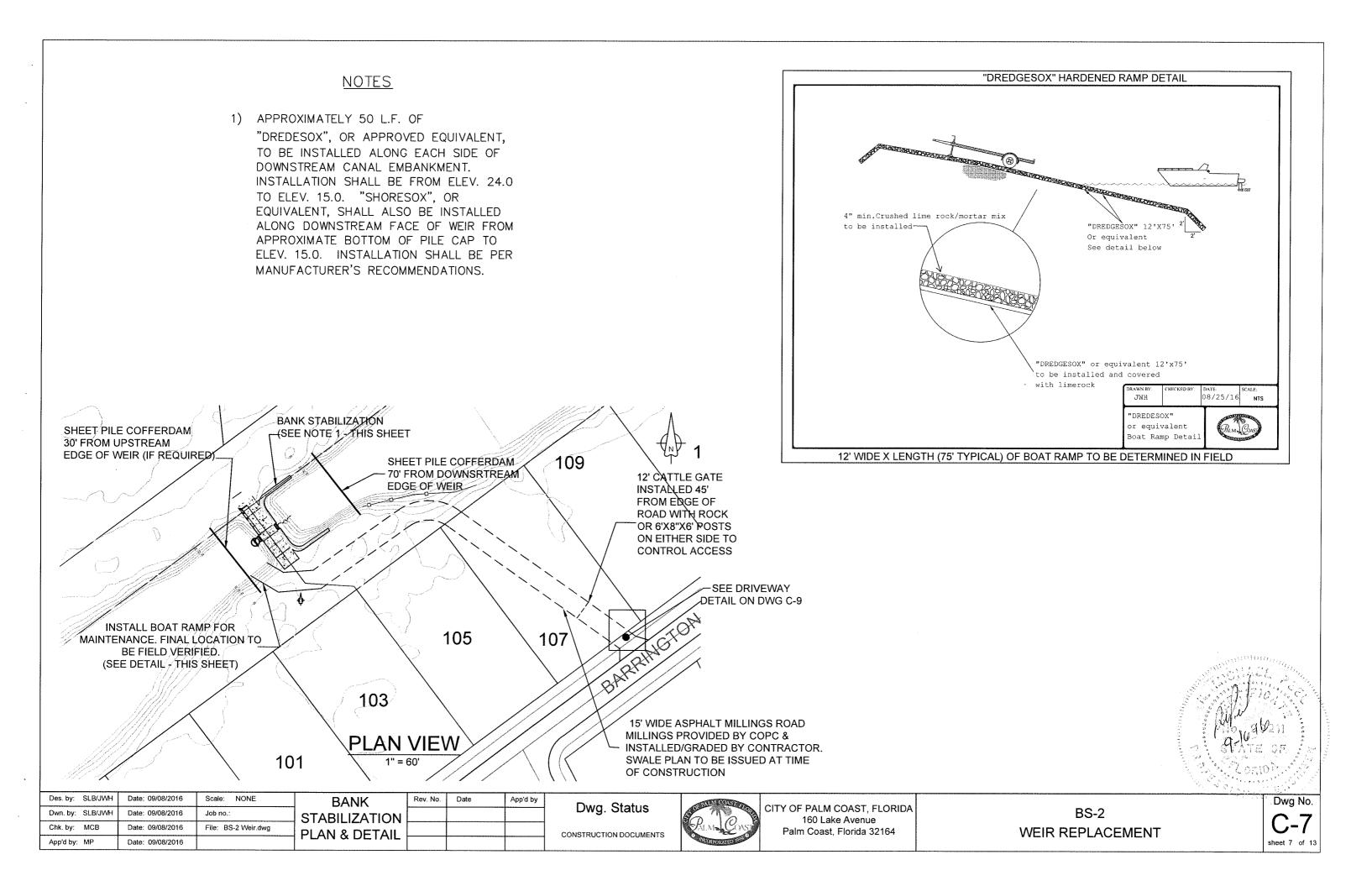


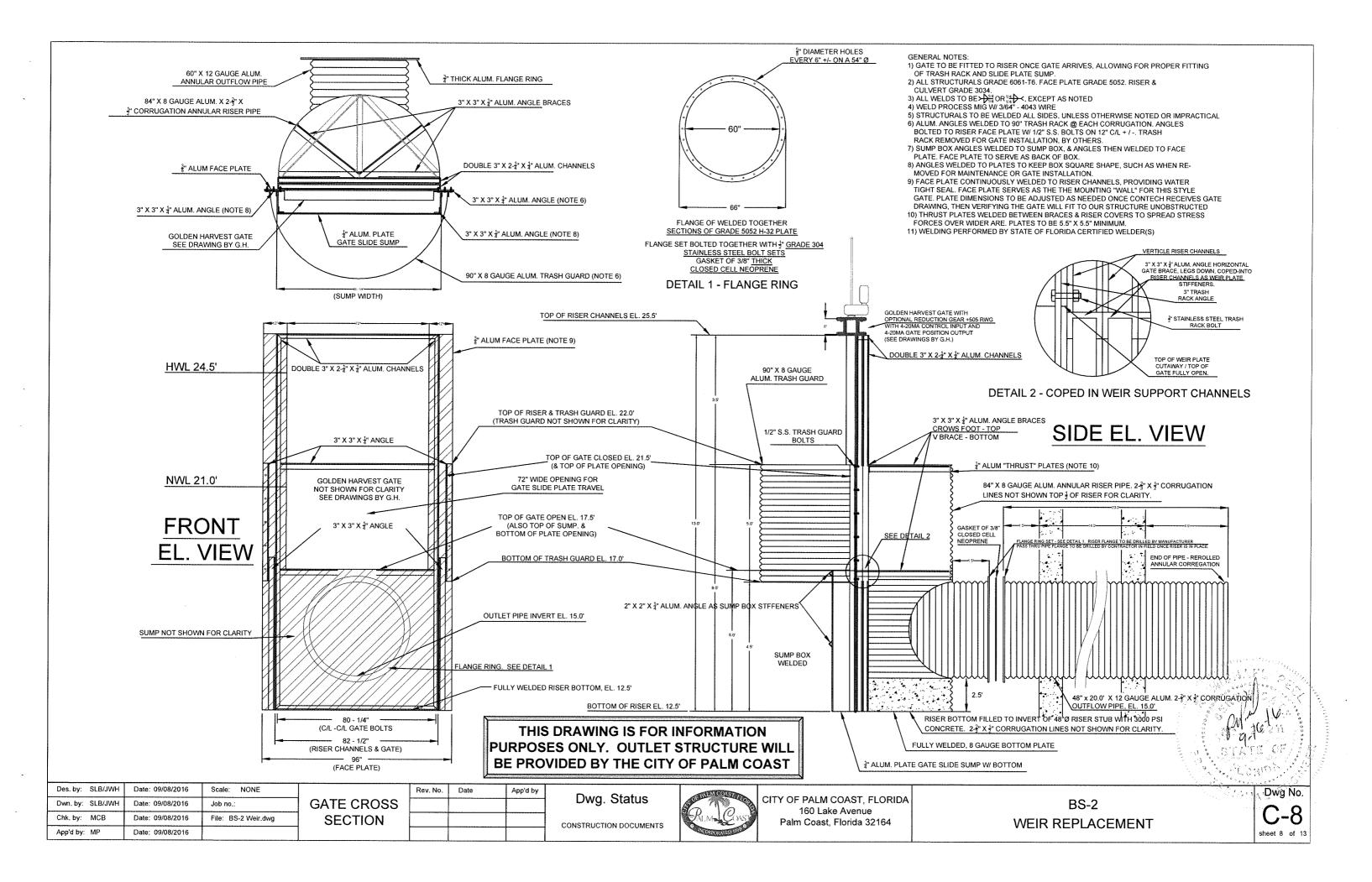






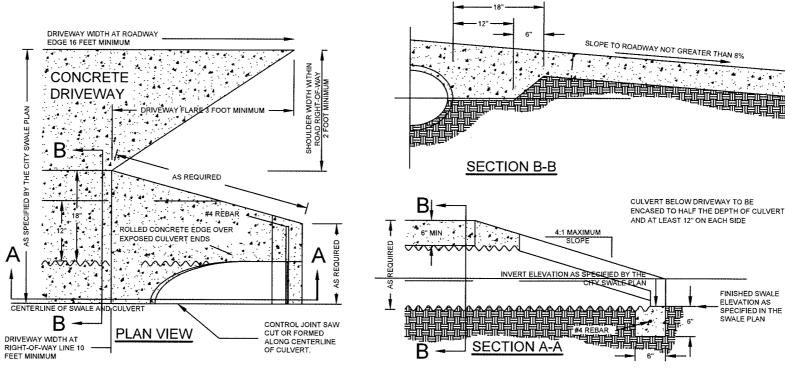






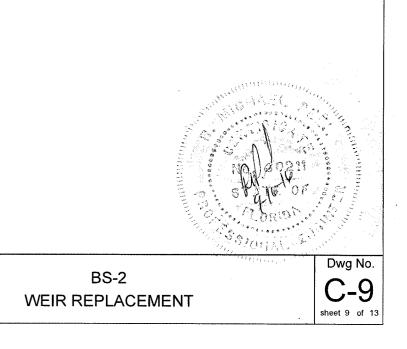
# FINAL DRIVEWAY DETAIL

## NOTE - END OF THE DRIVEWAY IS 25' FROM THE EDGE OF PAVEMENT

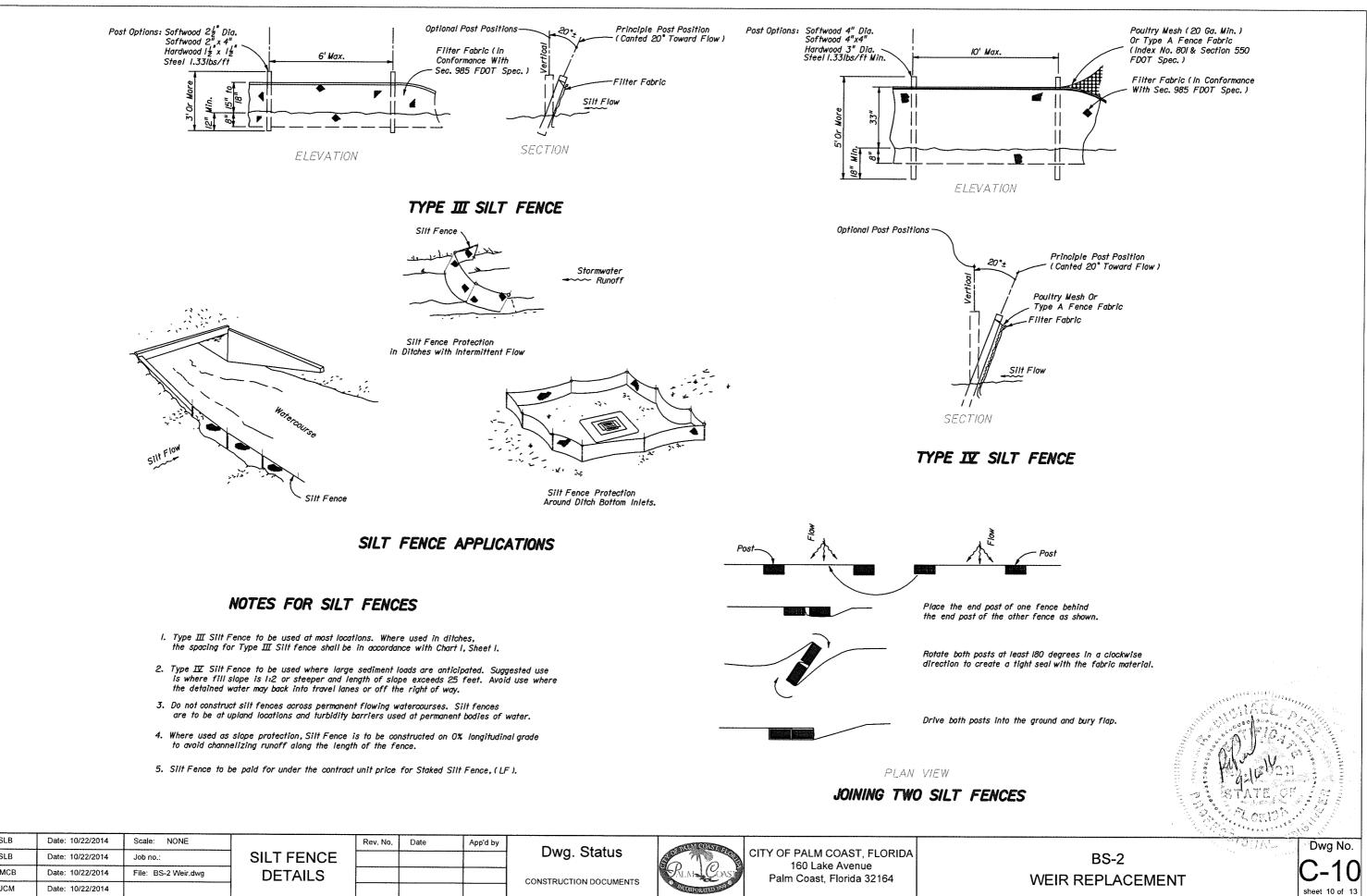


- 1. DRIVEWAY WIDTH IS TO BE A MINIMUM OF 16 FEET WIDE AT THE ROADWAY EDGE.
- 2. DRIVEWAY WDTH IS TO BE A MINIMUM OF 10 FEET WIDE FROM THE RIGHT-OF-WAY LINE TO THE FLARE AND THE RIGHT-OF WAY LINE IS 10 FEET FROM THE ROADWAY EDGE.
- 3. DRIVEWAY SLOPES ARE NOT TO EXCEED 8%.
- 4. CUL-DE-SAC OR FLAG LOT DRIVEWAYS WILL HAVE THE MINIMUM WIDTH AT THE ROADWAY EDGE AND PLACEMENT OF THE CULVERT MODIFIED TO BEST SUIT THE ACTUAL CONDITIONS.
- 5. THE CULVERT IS TO BE A HELICAL CORRUGATED METAL PIPE WITH MITERED ENDS. THE SIZE OF THE PIPE WILL BE 17"X13" OR A 15" EQUIVALENT. SUBSTITUTES REQUIRE PRIOR CITY APPROVAL.
- 6. THE USE OF PRE-CAST MITERED END SECTIONS IS PROHIBITED.
- 7. PIPE PROTECTION RAILS MAY BE REQUIRED AT THE CITIES DISCRETION.
- 8. THICKNESS OF THE DRIVEWAY IN THE RIGHT OF WAY IS TO BE A MINIMUM 6" OF 3,000 PSI CONCRETE REINFORCED WITH WWF 6x6-W1.4XW1.4 MESH OR FIBERGLASS REINFORCED CONCRETE (FRC).
- 9. FINISH GRADE TO MATCH DRIVEWAY AND MITERED END SECTION.
- 10. THE BUILDER IS RESPONSIBLE FOR THE VERTICAL AND HORIZONTAL ALIGNMENT OF THE CULVERT IN THE RIGHT-OF-WAY,
- 11. IF THERE ARE ANY QUESTIONS, PLEASE CALL MICHAEL BRENNAN IN THE STORMWATER DEPARTMENT AT (386) 986-4721 FOR ADVICE.

Des.by: JWH	Date: 09/08/2016	Scale: NONE		Rev. No.	Date	App'd by	Dura Status	TAL COAST		
Dwn. by: JWH	Date: 09/08/2016	Job no.:	CULVERT PIPE				Dwg. Status	Sector Constants	CITY OF PALM COAST, FLORIDA 160 Lake Avenue	
Chk. by: MCB	Date: 09/08/2016	File: BS-S weir.dwg	DETAIL				CONSTRUCTION DOCUMENTS	CALM COAST	Palm Coast, Florida 32164	
App'd by: MP	Date: 09/08/2016						CONSTRUCTION DOCUMENTS	ACORPORATED 1999		



FINISHED SWALE



	Des. by: SLB	Date: 10/22/2014	Scale: NONE		Rev. No.	Date	App'd by	Dura Chatura	TAL X COAST		
	Dwn.by: SLB	Date: 10/22/2014	Job no.:	SILT FENCE				Dwg. Status	STOLEN CONTRACTOR	CITY OF PALM COAST, FLORIDA 160 Lake Avenue	
L	Chk. by: MCB	Date: 10/22/2014	File: BS-2 Weir,dwg	DETAILS				CONSTRUCTION DOCUMENTS	CALM-LCOAST	Palm Coast, Florida 32164	
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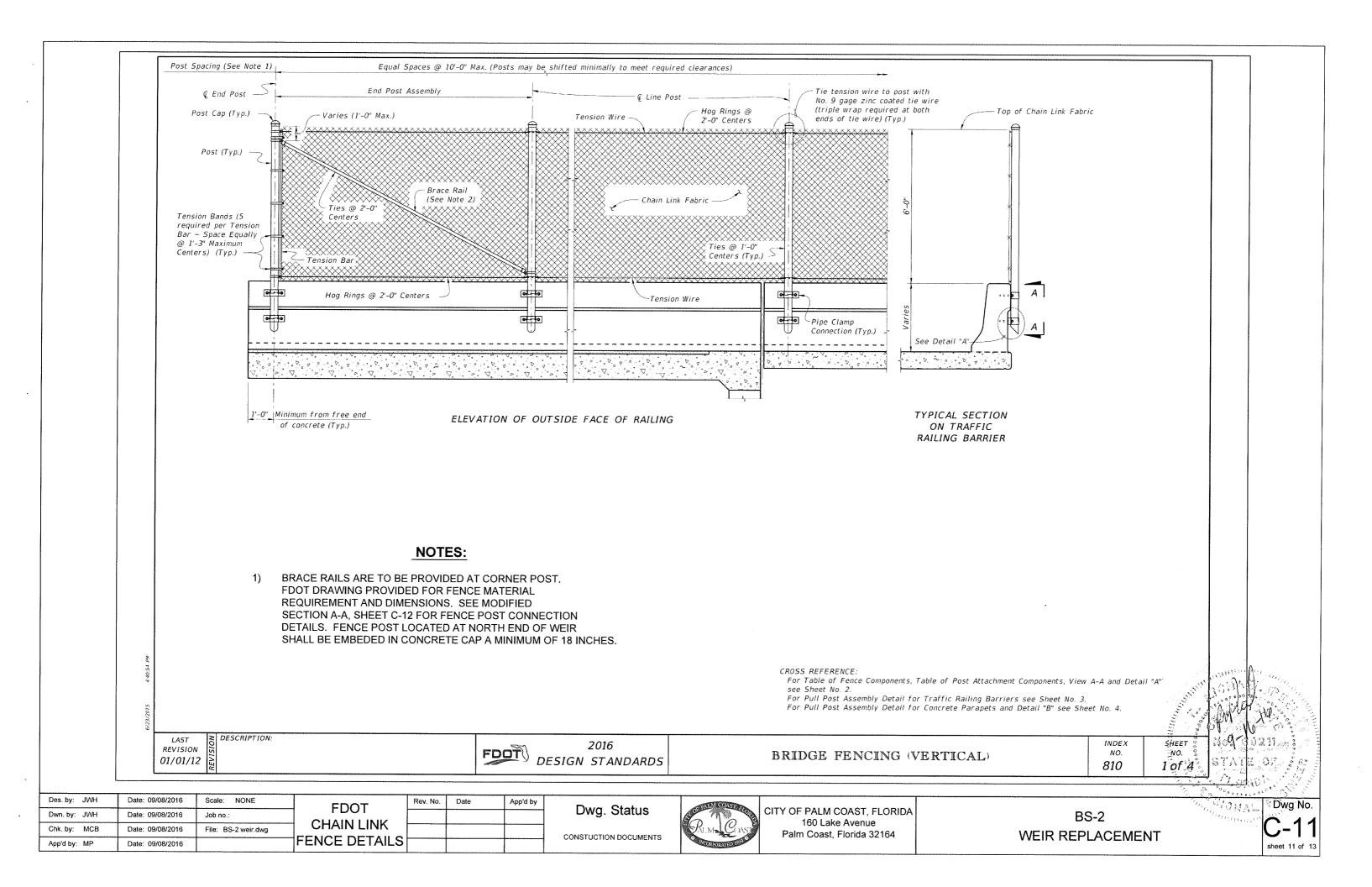


		TABLE O	F CHAIN LINK FENCE COMPONENTS		TA	BLE OF POST ATTA	CHMEI
	COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION		COMPONENT	ASTM DESIGNATION	
	Posts	F 1083	Galvanized Steel Pipe - 3" NPS, Schedule 40 (3.500" Outside Diameter, 0.216" Wall Thickness)	Pipe	Clamps	A 36 or A 709 Grade 36	⅓" St
	Chain Link Fabric (2" mesh with twisted	A 392	Zinc Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating	Base	Plates	A 36 or A 709 Grade 36	3/1" 51
l Barriers Parapets	top and knuckled bottom selvage)	A 491	Aluminum Coated Steel - No. 9 gage (coated wire diameter)	Shim	Plates	A 36 or A 709 Grade 36 or	Plate
g Bar Para		F 668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc Coated Wire (metallic-coated core wire diameter) ~ Specify the color of the polymer coating in the General Notes		Traces	B 209 Alloy 6061-T6 or B 221 Alloy 6063-T5	plate
Railing ncrete F	Tie Wires	F 626	Zinc Coated Steel Wire - No. 9 gage	Space	ers	-	1¼" H
Traffic F and Com	Brace Bands	F 626	No. 12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	Clamp ection	Adhesive Anchor Rods	F 1554 Grade 36	Fully (no s
Tra	Tension Bars	F 626	$3\!$	Pipe C Conne	C-I-P Anchor Rods	F 1554 Grade 36	Hex I or 5/8"
	Tension Bands	F 626	No. 14 Gage (Min. thickness) x ¾" (Min. width) Steel Bands		Adhesive Anchor Rods	F 1554 Grade 36	Fully
_	Miscellaneous Fence Components	F 626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)	Base Plate Connection			7%"Ø:
	Horizontal Rails	F 1083	Galvanized Steel Pipe - 2½" NPS, Schedule 40 (2.875" Outside Diameter, 0.203" Wall Thickness)		C-I-P Anchor Rods	F 1554 Grade 36	Нех Н <u>∛</u> "Ø;
te ts	Expansion Rails	F 1083	Galvanized Steel Pipe - 2" NPS, Schedule 40 (2.375" Outside Diameter, 0.154" Wall Thickness)	Bolts		A 307	Conne Hex N
Concrete Parapets	Bolts	A 307	¼" Ø x 4¼" Hex Head Bolts for Expansion Rail Connections	Nuts		A 563	Conne Flat V
Ůď	Nuts	A 563	Hex Nuts for Expansion Rail Connections	Washe	ers	F 436	Conne
	Washers	F 436	Flat Washers for Expansion Rail Connections	Neopr	ene Pads	-	In acc
ing	Tension Wire	A 824 & A 817	Type II (Zinc Coated Steel Wire) - No. 7 gage, Class 4 Coating				
Railing ier s			Type I (Aluminum Coated Steel Wire) - No. 7 gage				
Traffic Barri	Hog Rings	F 626	Zinc Coated Steel Wire - No. 12 gage				
Tra	Brace Rails	F 1083	Galvanized Steel Pipe - 1¼" NPS, Schedule 40 (1.660" Outside Diameter, 0.140" Wall Thickness)				
Ρ	Pipe Clamp Connection (see Detail on Sheet No 3) (Typ.)		CAP 4" 4" 4" 4" 4" 4" 4" 4" 4" 4"		ANCHOR I After th remova with a COATINGS Hot-dip and Fer Clamps galvani ADHESIV Adhesiv Specific Section installa WELDING All weld Welding	a galvanize all Nuts, Wash nce Framework (Posts, Int and Spacers) in accordan ze Fence Framework after E-BONDED ANCHORS AND re Bonding Material Syste cation Section 937 and be 416. Cutting of reinforc tion.	S: ed, di ted t ccord ers, L ernal ce wi fabr DOWL ms fo insta ing sl with D1.1 (0

LAST DESCRIPTION: REVISION 07/01/15	2016 DESIGN STANDARDS	BRIDGE FENCING (VERTICAL)
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Dwn. by: JWH	Date: 09/08/2016	Job no.:					Dwg. Status	States and a state of the state	CITY OF PALM COAST, FLORIDA 160 Lake Avenue	
Chk. by: MCB	Date: 09/08/2016	File: BS-2 weir.dwg					CONSTUCTION DOCUMENTS	CALM COAST	Palm Coast, Florida 32164	
App'd by: MP	Date: 09/08/2016		FENCE DETAILS				CONSTRUCTION DOCUMENTS	ACORPORATED 1999		

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