

**GENERAL PROVISIONS**

- 1. THE GENERAL NOTES PRESENTED HEREIN ARE INTENDED TO SERVE AS A GUIDE TO THE CONTRACTOR AND ARE NOT INTENDED TO SUPERCEDE GOVERNING JURISDICTIONAL CRITERIA THAT MAY APPLY. FOR SPECIFIC ITEMS NOT IDENTIFIED ON THE CONSTRUCTION PLANS, THE CONTRACTOR SHALL REQUEST INFORMATION FROM THE ENGINEER AND JURISDICTIONAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK AND ORDERING OF APPLICABLE MATERIALS.
2. PRIOR TO CONSTRUCTION WORK, THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE DEVELOPER FOR TIMING OF CONSTRUCTION TASKS THAT MAY AFFECT ADJACENT PROPERTY USERS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF ALL WORK SHOWN OR IMPLIED ON THE CONSTRUCTION PLANS AND SHALL INCLUDE COST TO PERFORM AND INSTALL WORK ITEMS ON BID.
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14. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, AND ALL ADJACENT AREAS AFFECTED BY WORK. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE DEVELOPER.

**EROSION AND SEDIMENT CONTROL**

- 1. EROSION AND SEDIMENT CONTROL MEASURES AS DESCRIBED ON THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK. MINIMUM SEDIMENT CONTROL CONSISTS OF SILT FENCING, HAY BALES, AND FLOATING TURBIDITY BARRIERS PER FOOT INDEX NO. 102 AND 103. MINIMUM EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, AND TEMPORARY FENCING.
2. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL EROSION AND SILTATION DURING CONSTRUCTION PERIOD. 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.
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14. DAYS AFTER REMOVAL OF EXISTING PAVEMENT.

**MAINTENANCE OF TRAFFIC**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, BARRICADES, AND OTHER DEVICES 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 AND TIMING SHALL BE CLOSELY COORDINATED WITH THE ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION.
2. ALL CONSTRUCTION SIGNING AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND 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 CERTIFIED PERSONNEL PRIOR TO CONSTRUCTION.
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14. AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY-COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.

**SITE PREPARATION**

- 1. UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY (R.O.W.), AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR CONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS AT ALL COSTS FOR THE RESPONSIBILITY OF THE CONTRACTOR.
2. STAKE OUT THE CONSTRUCTION AREA, ESTABLISH LINES, LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTIVITY WITH EXISTING UTILITIES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRASSES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE BEGINNING WORK.
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14. DAMAGED AREAS SHALL BE REPLACED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO DISTURBANCE.

**EARTHWORK**

**GRADING:**

- 1. GRADING SHOWN ON THESE PLANS ARE PROVIDED TO THE CONTRACTOR FOR GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTH TRANSITION OF DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY BE CHANGED TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. THE CONTRACTOR SHALL ACCOMPLISH THE ABOVE AND CONSULT THE ENGINEER SO THAT THE ENGINEER MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.
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14. THE CONTRACTOR SHALL ENSURE THAT AREAS DESIGNATED FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ARE CONSTRUCTED PER CURRENT GUIDELINES.

**EXCAVATION, TRENCHING, AND FILL:**

- 1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST REQUIRED TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT AND THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL CONSULT THE GEOTECHNICAL REPORT FOR SOIL PREPARATION AND GENERAL EARTHWORK REQUIREMENTS.
3. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE BEGINNING OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFF-SITE AREAS.
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14. EXCEPT AS OTHERWISE INDICATED ON PLANS OR SPECIFICATIONS, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS A MINIMUM OF TWO FEET BELOW FINISHED GRADE.
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14. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAY STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; POND AND ROAD EMBANKMENT FILL = 95 PERCENT; ALL OTHER AREAS = 90 PERCENT.

**DEWATERING**

- 1. DESIGN AND PROVIDE DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN AREAS THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. LOWER WATER LEVEL IN ADVANCE OF EXCAVATION BY UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE CONTROL METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF TWO (2) FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THAT THE GROUNDWATER LEVELS ARE BEING MAINTAINED.
2. BY ACCEPTABLE MEANS, CONTRACTOR SHALL CONTROL ALL WATER REGULATION OF SOURCE AND IS RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.
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14. WHEN CONSTRUCTION IS COMPLETE, PROPERTY OWNER REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

**STORM SEWER SYSTEMS**

- 1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ROUND RCP SHALL COMPLY WITH ASTM C76. RECTANGULAR RCP SHALL COMPLY WITH ASTM C507. PIPE JOINTS AND O-RING GASKETS SHALL COMPLY ASTM C443.
2. RCP SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF FIVE (5) DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
3. CORRUGATED POLYETHYLENE (PE) PIPE AND FITTINGS SHALL BE HIGH DENSITY, IN ACCORDANCE WITH ASTM D3350, CELL CLASSIFICATION 3442C0C (4 INCHES - 10 INCHES) OR CELL CLASSIFICATION 33542C0C (12 INCHES - 36 INCHES). PIPE 4 INCHES - 10 INCHES SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12 INCHES - 36 INCHES SHALL COMPLY WITH AASHTO M294, TYPE S. BELL JOINTS FOR 4 INCHES - 10 INCHES PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12 INCHES - 36 INCHES PIPE SHALL BE INTEGRALLY FORMED ON PIPE. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM D1056, GRADE 2A2. FITTINGS SHALL COMPLY WITH AASHTO M294.
...
14. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 12-INCH OVERLAP.

**PRECAST STRUCTURES AND APPURTENANCES**

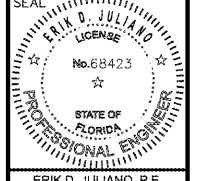
- 1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48 INCHES FOR SEWER LINES 24 INCHES IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.
2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.
3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF FIVE (5) INCHES.
...
14. AS-BUILT INFORMATION SHALL INCLUDE ALL RIM, TOP AND INVERT ELEVATIONS FOR ALL PRECAST STRUCTURES.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, IS HEREBY RENTED ONLY FOR THE SPECIFIC PURPOSE, AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY BOWMAN CONSULTING SHALL BE WITHOUT LIABILITY TO BOWMAN CONSULTING.



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GENERAL NOTES
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COUNTRYSIDE BLVD & U.S. HWY 19
CLEARWATER, PINELLAS COUNTY
FLORIDA



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