ADAMSON CREEK PHASE ONE-C

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| 5 | 1145302_300_005 | PRELIMINARY PLAT | | | | | | |
| | | BOUNDARY SURVEY | | | | | | |
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| 3 | 1145302_401_LS3 | GENERAL LANDSCAPE PLAN | | | | | | |
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PRELIMINARY SUBDIVISION/FINAL PUD/LARGE SCALE SITE PLAN SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST CITY OF COCOA, BREVARD COUNTY, FLORIDA



D.R. HORTON 1430 CULVER DRIVE

PAL BAY, FL. 32907 (321) 953-3135

CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905



| | | TRA | CT DATA TABLE / OPEN SPACE CALCULATION | |
|---------|----------------|------------------|---|-----------------------------|
| | AREA (±ACRE | AREA (±PERCEN | | COMMON OPEN SPACE CREDIT |
| TRACT | S) | Т) | USE | (±ACRES) |
| A-C | 1.30 | 0.67% | LANDSCAPE AMENITIES | 0.77 |
| A | 0.09 | 0.05% | LANDSCAPE AMENITIES | 0.09 |
| В | 1.14 | 0.59% | LANDSCAPE AMENITIES | 0.61 |
| С | 0.07 | 0.04% | LANDSCAPE AMENITIES | 0.07 |
| | | | STORMWATER MANAGEMENT, OPEN SPACE | |
| D-I | 36.95 | 19.15% | AND RECREATIONAL AMENITIES | 24.12 |
| | | | STORMWATER MANAGEMENT, | |
| D | 1.59 | 0.82% | OPEN SPACE AND RECREATIONAL AMENITIES | 1.59 |
| | | | STORMWATER MANAGEMENT, | |
| | | | OPEN SPACE A ND RECREATIONAL AMENITIES | |
| E | 4.05 | 2.10% | *50% OF 48.26 = 24.13 (TOTAL USABLE POND) | 4.05 |
| | | | STORMWATER MANAGEMENT, | |
| | | | OPEN SPACE AND RECREATIONAL AMENITIES | |
| F | 2.44 | 1.26% | *50% OF 48.26 = 24.13 (TOTAL USABLE POND) | 2.44 |
| | | | STORMWATER MANAGEMENT, | |
| | | | OPEN SPACE AND RECREATIONAL AMENITIES | |
| G | 4.23 | 2.19% | *50% OF 48.26 = 24.13 (TOTAL USABLE POND) | 4.23 |
| | | | STORMWATER MANAGEMENT, | |
| | | | OPEN SPACE AND RECREATIONAL AMENITIES | |
| Н | 3.84 | 1.99% | *50% OF 48.26 = 24.13 (TOTAL USABLE POND) | 3.84 |
| | | | STORMWATER MANAGEMENT, | |
| | | | OPEN SPACE AND RECREATIONAL AMENITIES | |
| 1 | 20.80 | 10.78% | *50% OF 48.26 = 24.13 (TOTAL USABLE POND) | 7.97 |
| | | | OPEN SPACE AND RECREATIONAL | |
| J-W | 9.19 | 4.76% | AMENITIES | 6.78 |
| J | 0.34 | 0.18% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.34 |
| K | 0.30 | 0.16% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.30 |
| L | 0.96 | 0.50% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.96 |
| Μ | 7.14 | 3.70% | OPEN SPACE AND RECREATIONAL AMENITIES | 4.73 |
| | | | DRAINAGE, OPEN SPACE AND RECREATION | |
| M-1 | 0.16 | 0.08% | AMENITIES | 0.16 |
| Ν | 0.15 | 0.08% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.15 |
| 0 | 0.14 | 0.07% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.14 |
| W | 0.05 | 0.03% | OPEN SPACE AND RECREATIONAL AMENITIES | 0.05 |
| P-V | 65 79 | 34 10% | CONSERVATION OF PRESERVED WETLANDS AND UPLANDS/PASSIVE RECREATIONAL USE | 16 57 |
| P | 3.55 | 1.84% | UPLAND AND WETLAND OPEN SPACE | 1.96 |
| Q | 6.29 | 3.26% | UPLAND AND WETLAND OPEN SPACE | 1.57 |
| R | 45.05 | 23.35% | UPLAND AND WETLAND OPEN SPACE | 8.94 |
| S | 4.05 | 2.10% | UPLAND AND WETLAND OPEN SPACE | 2.00 |
| V | 6.85 | 3.55% | UPLAND AND WETLAND OPEN SPACE | 2.10 |
| T-U | 0.14 | 0.07% | LIFT STATIONS | 0.00 |
| T | 0.10 | 0.05% | LIFT STATIONS | 0.00 |
| υ | 0.04 | 0.02% | LIFT STATIONS | 0.00 |
| 1 | 0.69 | 0.36% | R E TAINED BY THE D E V E LOPER | 0.00 |
| 1 | 0.69 | 0.36% | RETAINED BY THE DEVELOPER | 0.00 |
| N/A | 63.46 | 32.89% | RESIDENTIAL DEVELOPMENT (406 LOTS) | 0.00 |
| N/A | 15.44 | 8.00% | ROAD RIGHT-OF-WAY | 0.00 |
| | 48.24 | 25.00% | TOTAL RECREATION COMMON OPEN SPACE | 48.24 |
| | 192.96 | 100.00% | TOTAL PUD BOUNDARY | 192.96 |
| | | | REQUIRED OPEN SPACE | |
| | | 25.00% | (25% OF 192.96 AC = 48.24 acres) | 48.24 |
| | | 25.00% | PROVIDED COMMON OPEN SPACE | 48.24 |
| *50% OF | 48.24 = 2 | 4.12 (TOTAL | USABLE POND) | |

SYMBOLS SHOWN ARE GRAPHIC IN NATURE; DUE TO SCALE, ALL DESIGN ELEMENTS ARE NOT NECESSARILY SHOWN ON PLAN VIEWS. THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION AND DETAIL SHEETS AS WELL AS THE COMPLETE PLAN S

CONSULTING - ENGINEER LAND SURVEYING 312 SOUTH HARBOR CITY BOUI EVARD, SUITE MELBOURNE, FLORIDA 3290 PHONE: (321) 725-3674 FAX: (321) 723-ERTIFICATE OF PROFESSIONAL ENGINE BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING JSINESS AUTHORIZATION: LB000 SCOTT M. GLAUBITZ, P.E. & P.L. STATE OF FLORIDA, No. 33659 No. 415 HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 CITY COMMENTS CITY COMMENTS 08/10/2020 08/13/2 CITY COMMENTS 07/24/202 DATE: 07/13/20 **DESIGN/DRAWN**: SMG/RMI PROJECT TITLE **ADAMSON CREEK PHASE ONE-C** SHEET TITLE **COVER SHEET** PROJECT NO. 11453.02 DRAWING NO. 1145302_400_001 SHEET

CONVERSION FROM NGVD29 TO NAVD88: SUBTRACT 1.38' FROM NGVD29

VERTICAL DATUM: NGVD29

LANDSCAPE SYMBOL LEGEND

CABBAGE PALM TREE 关 🛛 PALM TREE PINE TREE × OAK TREE \bigtriangleup CCC TREE LINE **%** SHURB 1 SHRUB 2

IRRIGATION SYMBOL LEGEND

| * | SPRINKLER |
|------------|---------------|
| ۲ | RAINBIRD 1/4 |
| \bigcirc | RAINBIRD 1/2 |
| | RAINBIRD 3/4 |
| | RAINBIRD FULL |

LINE TYPES

| — — — BEL — — — BEL – | EXISTING BURIED ELECTRIC |
|-----------------------------|---|
| — — — BTL — — — BTL – | EXISTING BURIED TELEPHONE |
| - — — — CATV — — — — CATV - | EXISTING CABLE TV |
| <u> </u> | FENCE (TYPE, HEIGHT AS NOTED) |
| — — — FM— — — FM— | EXISTING FORCE MAIN (SIZE, TYPE AS NOTED) |
| — — — FO— — — FO— | EXISTING FIBER OPTIC |
| — — — GAS— — — GAS– | EXISTING GAS LINE |
| — — — IRR — — — IRR – | EXISTING IRRIGATION (SIZE, TYPE AS NOTED) |
| — — — OHE— — — OHE— | EXISTING OVERHEAD ELECTRIC |
| — — — ОНU— — — ОНU— | EXISTING OVERHEAD UTILITY |
| — — — RM— — — RM— | EXISTING REUSE MAIN (SIZE, TYPE AS NOTED) |
| — — — — SF— — — — SF— | SILT FENCE |
| — — — — SS— — — — SS— | EXISTING SANITARY SEWER (SIZE, TYPE AS NOTED) |
| — — — WM— — — WM— | EXISTING WATER MAIN (SIZE, TYPE AS NOTED) |
| | CENTERLINE |
| | BASIN BOUNDARY |
| <u> </u> | COLUMN / WALL |
| <u> </u> | GUARD RAIL |
| ·uuuu | TREE LINE |
| | DRAINAGE PIPE (SIZE, TYPE AS NOTED) |

SYMBOL LEGEND S EXISTING SANITARY MANHOLE EXISTING MANHOLE (TYPE NOTED) Ο PROPOSED MANHOLE TYPE 2 INLET TYPE 3 INLET ◬ TYPE 4 INLET TYPE 5 INLET CATCH BASIN YARD DRAIN \Box FLARED END SECTION MITERED END SECTION \bowtie EXISTING GATE VALVE PROPOSED GATE VALVE \mathcal{Q} EXISTING FIRE HYDRANT Ť PROPOSED FIRE HYDRANT ୍ର EXISTING BLOW-OFF PROPOSED BLOW-OFF ASSEMBLY WITH ● ○ GATE VALVE EXISTING FIRE DEPT. CONNECTION PROPOSED FIRE DEPT. CONNECTION \blacksquare EXISTING WATER METER PROPOSED WATER METER EXISTING WATER SERVICE PROPOSED WATER SERVICE O EXISTING REUSE SERVICE PROPOSED REUSE SERVICE SANITARY SERVICE STUB OUT Ø EXISTING AIR RELEASE VALVE ۲ AIR RELEASE VALVE Ο EXISTING CLEAN OUT CLEAN OUT 1_1 CROSS TEE 1_1 TEE BACK FLOW PREVENTION DEVICE REDUCER Θ POST INDICATOR VALVE \boxtimes UTILITY RISER CONCRETE POWER POLE \rightarrow ပ WOOD UTILITY POLE (GUY WIRE - GUY POLE C EXISTING LIGHT POLE PROPOSED LIGHT POLE O EXISTING SIGN PROPOSED SIGN 2539 DIRT PAD ELEVATION FINISHED FLOOR ELEVATION TYPE A LOT DRAINAGE TYPE B LOT DRAINAGE 12 LOT NUMBER ← FLOW ARROW

ABBREV

MINUTES/FEET

.

| 0 | SECONDS/INCHES |
|---|---|
| (C) | |
| (C) (D) | |
| (E) | FIELD MEASURED DIMEN |
| (M) | METER(S) |
| (NR) | NOT RADIAL |
| (P) | PLAT DIMENSION |
| A/C | AIR CONDITIONER |
| AC | ACRES |
| ADS | ADVANCED DRAINAGE S |
| AL | ARC LENGTH |
| ARV | |
| AVE | |
| BLVD | |
| BVC | |
| BVP | BEGIN VERTICAL PROFIL |
| C/L | CENTERLINE |
| C/O | CLEAN OUT |
| CA | CENTRAL ANGLE |
| CATV | CABLE TELEVISION |
| CB | CHORD BEARING |
| CBS | CONCRETE BLOCK STRU |
| CH | CHORD LENGTH |
| CM | CONCRETE MONUMENT |
| CMP | CORRUGATED METAL PI |
| CONC | |
| COR | |
| DF | |
| DEL | DELTA/CENTRAL ANGLE |
| DI | DITCH INLET/ CATCH BAS |
| DIP | DUCTILE IRON PIPE |
| DS | DRAINAGE STRUCTURE |
| E | EAST |
| | |
| EG | EXISTING GROUND |
| EG ELEC | |
| EG ELEC EL/ELEV | ELECTRIC ELEVATION |
| EG ELEC EL/ELEV EOP | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER |
| EG ELEC EL/ELEV EOP EOW ERCP | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELUPTICAL REINFORCED |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND |
| EG EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT COM |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDCT | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLARED END SECTION |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FES FFE | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FINISHED FLOOR ELEVAT |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FES FFE FH | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLARED END SECTION FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FDC FES FFE FH FL FM | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN |
| EG EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FES FFE FH FL FN | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CON FLARED END SECTION FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FES FFE FH FL FN FPL FT | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FES FFE FH FL FL FT GLO | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT OF FLARED END SECTION FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FDC FES FFE FH FL FL FN FPL FT GLO GR | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF VATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FDC FDC FDC FDC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF VATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLARED END SECTION FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIO FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FDC FES FFE FH FL FL FL GLO GR GV H/C | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FDC FDC FDC FDC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FDC FDC FES FFE FH FL FH FL FT GLO GR GV H/C HP HWY | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CON FLORIDA DEPARTMENT CON FLORIDA DEPARTMENT CON FLORIDA DEPARTMENT CON FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGHWAY |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FDC FDC FDC FDC | EXISTING GROUND ELECTRIC ELECTRIC EDGE OF PAVEMENT EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGH WAY IDENTIFICATION NUMBER |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FD FDC FDC FDC FDC FDC FES FFE FH FL FH FL FT GLO GR GV H/C HP HWY ID# INV | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF VATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FLORIDA DEPARTMENT CONN FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGHWAY IDENTIFICATION NUMBER INVERT IRON PIPE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FES FFE FH FL FM FL FT GLO GR GV H/C HP HWY ID# INV IP | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLOR HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGH POINT HIGH WAY IDENTIFICATION NUMBER INVERT IRON PIPE IRON PIPE |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FES FFE FH FL FR GLO GR GV H/C HP HWY ID# INV IP IPC IR | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT CONN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGHWAY IDENTIFICATION NUMBER INVERT IRON PIPE IRON PIPE AND CAP IRON ROD |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FDC FDC FDC FC GLO GR GV H/C HP HWY ID# INV IP IPC IR IRC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA DEPARTMENT OF FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGH POINT HIGH WAY IDENTIFICATION NUMBER INVERT IRON PIPE IRON PIPE IRON ROD IRON ROD AND CAP |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FES FFE FH FL FT GLO GR FPL FT GLO GR H/C HP HWY ID# INV IP IPC IR IRC JCT | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGHWAY IDENTIFICATION NUMBER INVERT IRON PIPE AND CAP IRON ROD IRON ROD AND CAP JUNCTION |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FDC FDC FDC FDC | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FLORIDA DEPARTMENT COM FINISHED FLOOR ELEVAT FIRE HYDRANT FLOW LINE FORCE MAIN FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGH POINT HIGH POINT HIGH POINT HIGH POINT HIGH POINT HIGN ROD IRON ROD AND CAP JUNCTION LINEAR FEET |
| EG ELEC EL/ELEV EOP EOW ERCP ESMT EVC EVP EX FDC FDC FDC FDC FDC FDC FES FFE FH FL FT GLO GR FPL FT GLO GR H/C HP HWY ID# INV IP IPC IR IRC JCT LF | EXISTING GROUND ELECTRIC ELEVATION EDGE OF PAVEMENT EDGE OF WATER ELLIPTICAL REINFORCED EASEMENT END VERTICAL CURVE END VERTICAL CURVE END VERTICAL PROFILE EXISTING FOUND FIRE DEPARTMENT COM FLORIDA POWER AND LIC FEET GENERAL LAND OFFICE GROUND GATE VALVE(S) HANDICAP HIGH POINT HIGHWAY IDENTIFICATION NUMBER INVERT IRON PIPE IRON PIPE AND CAP IRON ROD IRON ROD AND CAP JUNCTION LINEAR FEET LEFT |

| | | | BEE |
|---|------------------|---|---|
| | | | B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING |
| | | | 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 |
| EVIATIONS | | ABBREVIATIONS | CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING |
| 6 | LS | | BUSINESS AUTHORIZATION: LB0004905 |
| 5 | MAX | MAXIMUM | STATE OF FLORIDA, No. 33659 No. 4151 |
| IENSION I | MES MH | MITERED END SECTION MANHOLE | |
| DIMENSION | MHW | MEAN HIGH WATER | |
| | MIN | MINIMUM | |
| R | N N&D | NORTH NAIL AND DISK | |
| NAGE SYSTEMS (CPP) | NAVD88 NGVD29 | NORTH AMERICAN VERTICAL DATUM 1988 | |
| | NGVB23 | NATURAL GROUND | |
| LVE | NIC NTS | NOT IN CONTRACT NOT TO SCALE | |
| | NWL | | HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 |
| CURVE | OR/ORB | OFFICIAL RECORDS BOOK | |
| PROFILE | P/L PAVT | PROPERTY LINE PAVEMENT | |
| | PB | PLAT BOOK POINT OF CURVATURE | |
| DN | PCC | POINT OF COMPOUND CURVATURE | |
| K STRUCTURE | PCP PD&UE | PERMANENT CONTROL POINT PUBLIC DRAINAGE AND UTILITY EASEMENT | |
| | PDE PG(S) | PUBLIC DRAINAGE EASEMENT PAGE(S) | |
| ETAL PIPE | PGL | PROPOSED GRADE LINE | |
| | PK POB | PARKER-KALEN POINT OF BEGINNING | |
| | POC | | |
| MENT ANGLE | POL | POINT ON LINE POWER/UTILITY POLE | |
| ICH BASIN PE | PR PRC | PRIVATE POINT OF REVERSE CURVATURE | |
| CTURE | PT | | |
| ID | PVC PVI | POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION | |
| | R R/W | RADIUS/RIGHT RIGHT-OF-WAY | |
| ENT | RAD | | |
| FORCED CONCRETE PIPE | RCP | REINFORCED CONCRETE PIPE | |
| URVE | REF RGE | REFERENCE RANGE | |
| ROFILE | RM | REUSE MAIN | |
| | RPB | ROAD PLAT BOOK | |
| NT CONNECTION MENT OF TRANSPORTATION | RR S | RAILROAD SOUTH | |
| | SEC | SECTION | |
| ELEVATION | SMH | SEWER MANHOLE | |
| | SPK SS | SPIKE SANITARY SEWER | |
| AND LIGHT | ST | STREET | |
| DFFICE | SVC | SERVICE | |
| | SW TEL | SIDEWALK TELEPHONE | |
| | | TOP OF BANK TOE OF SLOPE | |
| | TWP | TOWNSHIP | 243 3 CITY COMMENTS 08/19/20 |
| NUMBER | TYP UE | I YPICAL UTILITY EASEMENT | CITY COMMENTS 08/10/2020 08/13/20 CITY COMMENTS 07/24/2020 07/31/20 |
| AP | UG UTIL | UNDERGROUND UTILITY | DATE: 07/13/20 |
| | W | WEST | DESIGN/DRAWN. SIVIG/RIVID |
| AP | WM | WATER MAIN | PROJECT TITLE |
| | | | |
| | | | PHASE ONE-C |
| | | | FIASE ONE-C |
| | | | |
| | | | |
| | | | SHEET TITLE |
| | | | |
| | | | STIVIDULS AND ARREVATIONS |
| | | | ADDILLATIONS |
| | | | |
| | | | |
| | | | PROJECT NO. |
| | | | 11453.02 |
| | | | DRAWING NO. |
| | | | 1145302_400_002 |
| | | | SHEET |

2 of 35



Projects Folder/11453.02\Drawings\1145302_400\1145302_400_003.dwg August 21, 2020.



Landscape Forms Inc. Petoskey Trash Receptacle

Share Comment Bookmark

Product Description CAD/BIM Files User Reviews/Comments





Product Website

Product Description

Like the prized coral fossil stone that shares its names, Petoskey is pleasing to the eye...and solid as a rock. Petoskey is engineered for active commercial and institutional spaces and has become a favorite for courtyards, city parks, university campuses, mixed use retail areas and transportation hubs.

- 30-gallon capacity litter receptacle; polyethylene liner included
- Choice of tube support or hinged lid style Receptacle formed of 11-gauge steel; Ash Urn of
- 14 guage. Hinged lid receptacle may be specified with signage/special openings to designate collection
- of waste or recyclables • Signage printed on high performance, exterior grade, UV protected vinyl - mounted securely to
- each unit <u>Click here</u> to view standard signage choices
- Receptacle with 3in. o.d. steel tube support may be surface mount or embedded
- Hinged lid receptacle and ash urn: freestanding/surface mount or embedded
- Metal parts finished with Pangard II® powdercoat available in standard colors
- Optional powdercoat colors available for an upcharge

Product Details

| CSI Division: | 32 33 23 | | |
|----------------------------------|--|--|--|
| CSI Division Title: | Site Trash and Litter Receptacles | | |
| Manufacturer's Brochure: | http://www.landscapeforms.com/en-US/LFIBr ochures/PetoskeyLitterAsh.pdf | | |
| Product Cut Sheet/Specs/Demo: | http://www.landscapeforms.com/en-US/Prod uct%20Data/LF_PetoskeyLitter_ProductData. pdf | | |
| | / | | |

Related Keywords

Clear Floor Space Clear Ground Space Essential Container Operable Part (Control) Outdoor Constructed Feature Reach Range <u> Trash Can (Outdoor)</u> **Related Section Numbers**



GABLE END

Fitness



Parallel Bars



Jump Touch Beam



Spring Up Bars

The Fitness Course is designed to provide levels of challenge for older children and adults. Available signage explains the various events and gives suggestions for physical programs and warm-up/cool-down routines. The events can be laid out as shown, along a pathway, or configured to fit your area. The same high quality materials used in playground equipment are used to build the Fitness Course - providing the same strength and durability



Balance Beam

Sit Up Bench

Fitness Course



Pull/Chin Up Bars



Stretching Post



Horizontal Ladder

| Description | IE |
|--------------------------------|------------|
| 10 Station Course*** | 6001940XX |
| 10 Station Course Sign Package | 60019510XX |
| Parallel Bars | 60019401XX |
| Parallel Bars Sign Package | 60019451XX |
| Vertical Ladder | 60019402XX |
| Verlical Ladder Sign Package | 60019452XX |
| Pul/Chin Up Bors | 60019403XX |
| Pull/Chin Up Bars Sign Package | 60019453XX |
| Stretching Post | 60019404XX |
| Stretching Post Sign Package | 60019454XX |
| Beam Run | 60019405XX |
| Beam Run Sign Package | 60019455XX |
| Jump Touch Beam | 60019406XX |
| Jump Touch Beam Sign Package | 60019456XX |
| Sil-up Bench | AFT13972XX |
| Sil-up Bench Sign Package | 60019457XX |
| Balance Beams | 60019408XX |
| Balance Beams Sign Package | 60019458XX |
| Horizontal Ladder | 60019409XX |
| Horizontal Ladder Sign Package | 60019459XX |
| Spring Up Bars | 60019410XX |
| Spring Up Bars Sign Package | 60019460XX |







Product Description The Curved Post Straight Rung Vertical Ladder is a durable metal climber built of stainless steel. The galvanized posts and rungs are sure to stand up to years of exposure to wind, rain, and snow. And the bright colors of this commercial-grade playground equipment are available as displayed or, with longer lead times, possible to customize to a unique scheme of your choosing. Imagine the ladder decked out in your school's colors or featuring tones chosen after a vote by the student body. Climbing gets the blood pumping and exercises large muscles in the core, legs, and arms. Kids engage their gross motor skills on structures like this ladder, which are critical to develop for the sake of better motion control, balance, and posture. The bars are properly spaced apart, making it easy for children across a range of ages to reach the rungs and begin scurrying up and down.

VISIT US ONLINE at APCPLAY.COM



RSP-SF-3

UND SIZE

MENDED AREA

LD CAPACITY

PONENT LIST

reka 🚝 "BEAM JUMP" Setia 🚝 Reka Setia Industries Sdn Bhd (528748-P)



Curved Post Straight Rung Vertical Ladder



Product Specifications

Model Number: PGS034 Age Range: 5-12 years Child Capacity: 2-5 Fall Height: 96" Post Diameter: 4.5-inch Product Type: Get Physical Safety Zone: 12' 5" x 16' 3"











Model# 5503-5





FOR CONTINUATION SEE SHEET 7

LEGEND

.....

| | PROPOSED STORM SEWER |
|--|--|
| | EXISTING STORM SEWER |
| WM | PROPOSED WATER MAIN |
| —RM | PROPOSED REUSE MAIN |
| —————————————————————————————————————— | PROPOSED SANITARY FORCE MAIN |
| | GRADE BREAK LINE |
| 269 | LOT NUMBER |
| | PROPERTY LINE |
| | BUILDING SETBACK |
| — — SF — — SF — | SILT FENCE |
| $\overline{\mathbf{v}}$ | WETLAND CONSERVATION AREA |
| | WETLAND BUFFER CONSERVATION AREA |
| | COMMON AREA CONCRETE SIDEWALKS |
| | SHALL BE CONSTRUCTED AS PART OF INFRASTRUCTURE IMPROVEMENTS |
| | HOME BUILDER AREA CONCRETE |
| | SIDEWALKS SHALL BE CONSTRUCTED AS PART OF HOME CONSTRUCTION |
| | RECREATIONAL AREA SIDEWALKS |
| | SHALL BE CONSTRUCTED AS PART OF INFRASTRUCTURE IMPROVEMENTS |
| | |
| | SHALL BE CONSTRUCTED AS PART OF |
| | INFRASTRUCTURE IMPROVEMENTS |
| PVI 22+60 | FINISHED CENTERLINE OF ROAD |
| EL=27.75 | ELEVATION |
| À | TYPE 'A' LOT LOT DRAINS REAR TO FRONT |
| B | TYPE 'B' LOT |
| | |
| <u>c</u> | LOT DRAINS FRONT TO REAR |
| 29.86 | FINISHED FLOOR ELEVATION (FFE) |
| (29.36) | DIRT PAD ELEVATION |
| × 27.07 | EXISTING GROUND SPOT ELEVATION |
| × 27.07 | DESIGN SPOT ELEVATION |
| MEG | MATCH EXISTING GROUND |
| DE | DRAINAGE EASEMENT |
| DHW | DESIGN HIGH WATER |
| DS | DRAINAGE STRUCTURE |
| EL | ELEVATION |
| GB | GRADE BREAK |
| [HP] | HIGH POINT |
| [LP] | LOW POINT |
| NWL | NORMAL WATER LEVEL |
| PVI | POINT OF VERTICAL INTERSECTION |
| VC | VERTICAL CURVE |
| * | PROPOSED LIGHT POLE |
| | |
| | FILINESS STATION |
| | |
| BUILDING SETB | ACKS |
| FRONT: | 25' |

| | 20 |
|----------------|---------------------------------|
| REAR: | 25' (FROM PERIMETER OF THE PUD) |
| SIDE: | 5' |
| SIDE (CORNER): | 25' |
| | |

REFER TO PLAT FOR LOT DIMENSIONS

NOTES:

- 1. PONDS 5 AND 6 HAVE BEEN CONSTRUCTED DURING PHASE ONE-A.
- 2. NO CLEARING OR CONSTRUCTION IS ALLOWED WITHIN THE WETLAND CONSERVATION AREA.
- 3. INSTALL INLET PROTECTION ON ALL INLETS.
- 4. SEE SHEET 18 FOR PAVEMENT DETAILS.
- 5. SEE SHEET 19 FOR TYPICAL LOT GRADING DETAILS.
- SEE SHEET 20 FOR FDOT DRAINAGE STRUCTURE DETAILS.
- 7. SEE ENLARGEMENT DETAILS ON SHEET 9 FOR SIGNAGE AND PAVEMENT MARKING CALLOUTS.
- 8. SEE SHEET 9 FOR DRAINAGE STRUCTURE TABLE.
- 9. SEE SHEETS 3A AND 3B FOR ADDITIONAL AMENITIES INFORMATION.

| RACT L - RECREATION AREA ENLARGEMENT DETA | |
|--|--|
| | |

| | | | DRAINAG | E STRUCTU | | | | | | _ |
|--------|----------------|------------------|----------------------------------|-----------|--------------------------|----------|----------------------------|-----------------------|--------------|---|
| NAME | DESCRIPTION | TOP ELEVATION | INVERTS | SIZE | PIPE LENGTH (FEET) | то | COMMENT | NAME | DESCRIPTION | E |
| DS-34 | TYPE H 2 GRATE | 24.77 | N =19.00 | 30" RCP | 130 | DS-35 | | DS-53 | TYPE 2 | Τ |
| DS-35 | JUNCTION BOX | 25.80 | E =18.41 S =18.41 | 24" RCP | 90 | DS-36 | | DS-54 | TYPE 2 | - |
| DS-36 | TYPE E | 22.00 | W =18.00 | | | | | | | ┢ |
| DS-37 | TYPE 2 | 26.01 | E =21.35 | 30" RCP | 35 | DS-38 | | DS-55 | TYPE 2 | |
| DS-38 | TYPE 2 | 26.01 | N =18.32 W =21.26 | 30" RCP | 268 | DS-41 | | DS-56 | TYPE 2 | F |
| DS-39 | TYPE 2 | 26.13 | E =21.45 | 24" RCP | 35 | DS-40 | | DS-57 | JUNCTION BOX | |
| DS-40 | TYPE 2 | 26.13 | S =18.89 W =21.34 | 24" RCP | 128 | DS-41 | | DS-59 | TYPE 4 | T |
| DS-41 | JUNCTION BOX | 26.49 | E =18.01 N =18.64 S =18.01 | 36" RCP | 123 | DS-43 | | X-CS-75 | | + |
| DS-42 | TYPE 4 | 25.26 | N =20.59 | 24" RCP | 35 | DS-43 | | х-D3-44 | JUNCTION BOX | _ |
| DS-43 | TYPE 4 | 25.26 | N =16.43 S =20.55 W =17.43 | 48" RCP | 251 | X-DS-44 | | X-DS-46 | JUNCTION BOX | _ |
| DS-45 | TYPE 2 | 24.83 | E =20.34 | 24" RCP | 37 | X-DS-46 | | X-DS-50A | JUNCTION BOX | |
| DS-47 | TYPE 2 | 25.37 | E =16.57 N =19.67 | 24" RCP | 35 | DS-48 | | X-DS-53A | JUNCTION BOX | |
| DS-47A | TYPE 3 RIGHT | 26.07 | S =21.57 | 18" RCP | 190 | DS-47 | | X-DS-58 | | T |
| DS-48 | TYPE 2 | 25.37 | S =16.48 W =16.48 | 30" RCP | 405 | X-DS-46 | | X-DS-68 | | + |
| DS-49 | TYPE 2 | 25.31 | N =20.61 W =18.01 | 24" RCP | 36 | DS-50 | | X-D3-00 | | + |
| DS-49A | TYPE 3 LEFT | 26.00 | S =21.50 | 18" RCP | 179 | DS-49 | | X-D2-09 | JUNCTION BOX | ╞ |
| DS-50 | TYPE 2 | 25.31 | E =17.83 W =17.83 | 30" RCP | 134 | X-DS-50A | | X-MES-44 X-MES-53A | MES MES | + |
| DS-51 | TYPE 2 | 25.67 | W =21.25 | 24" RCP | 39 | DS-52 | | X-MES-58 | MES | + |
| DS-52 | TYPE 2 | 25.67 | SW =20.70 E =21.13 | 24" RCP | 163 | | CONNECT TO EX 24" RCP PIPE | L | 1 | |

| | DRAINAGE | STRUCTUR | RE TABLE | | |
|-----|----------------------------------|----------|--------------------------|----------|----------------------------|
| ION | INVERTS | SIZE | PIPE LENGTH (FEET) | то | COMMENT |
| 5 | NW =15.57 SE =15.57 | 54" RCP | 35 | DS-54 | |
| 5 | NW =15.53 S =15.53 | 54" RCP | 152 | DS-57 | |
| 3 | S =17.15 NW =18.15 | 30" RCP | 224 | DS-59 | |
| 3 | SE =18.20 | 18" RCP | 52 | DS-55 | |
| D | N =15.39 S =15.39 | 54" RCP | 218 | X-DS-58 | |
| 6 | S =16.90 N =16.90 | 30" RCP | 53 | | CONNECT TO EX 30" RCP PIPE |
| 5 | SW =16.25 | 24" RCP | 157 | X-DS-69 | |
| D | NE =16.11 S =16.11 | 48" RCP | 126 | X-MES-44 | ADJUST TOP TO EL 27.10 |
| 0 | E =16.48 N =16.48 W =20.15 | 36" RCP | 165 | | REMOVE TEMP TOP |
| 5 | S =17.49 E =17.49 | 30" RCP | 177 | | ADJUST TOP TO EL 24.65 |
| D | W =15.80 SE =15.80 | 54" RCP | 136 | DS-53 | ADJUST TOP TO EL 25.30 |
| D | N =15.17 SE =15.17 | 54" RCP | 143 | X-MES-58 | ADJUST TOP TO EL 22.40 |
| 7 | SW =16.12 E =16.13 | 24" RCP | 178 | | ADJUST TOP TO EL 26.27 |
| 7 | W =16.10 NE =16.08 | 24" RCP | 41 | X-DS-68 | ADJUST TOP TO EL 26.27 |
| | SW =16.05 | | | | |
| | E =15.87 | 54" RCP | 63 | X-DS-53A | |
| | NW -15.03 | | | | |

| | SANITARY SEV | | URE |
|-------|------------------|----------------------------------|---------|
| NAME | TOP ELEVATION | INVERTS | COMMENT |
| SMH1 | 26.00 | W =22.00 | |
| SMH2 | 26.16 | E =20.81 SW =20.71 | |
| SMH3 | 25.94 | NE =20.47 S =20.37 | |
| SMH4 | 25.60 | N =19.19 S =19.09 | |
| SMH5 | 25.00 | N =17.65 S =17.55 | |
| SMH6 | 26.57 | N =16.45 S =16.35 | |
| SMH7 | 27.30 | N =23.40 | |
| SMH8 | 26.00 | N =18.25 S =19.89 | |
| SMH9 | 26.60 | N =15.07 E =14.97 S =16.89 | |
| SMH10 | 25.05 | W =14.44 NE =14.34 | |
| SMH11 | 25.20 | SW =14.03 NE =13.93 | 5' DIA. |
| SMH12 | 25.62 | S =21.62 | |
| SMH13 | 25.40 | N =20.72 | |

| : | SANITARY SEWER STRUCTURE TABLE | | | | | | |
|----------|-----------------------------------|-------------------------------------|------------|--|--|--|--|
| NAME | TOP ELEVATION | INVERTS | COMMENT | | | | |
| SMH14 | 25.80 | NW =20.17 SE =20.07 | | | | | |
| SMH15 | 26.00 | NW =18.47 SE =18.37 | | | | | |
| SMH16 | 26.00 | N =21.80 | | | | | |
| SMH17 | 25.70 | S =20.64 NW =20.54 | | | | | |
| SMH18 | 26.40 | NW =17.80 SW =17.70 SE =19.60 | | | | | |
| SMH19 | 24.95 | NE =17.16 SW =12.35 | | | | | |
| SMH20 | 25.70 | NE =11.48 SW =11.38 | | | | | |
| SMH21 | 26.35 | NE =10.76 SW =10.66 | | | | | |
| SMH22 | 25.82 | NE =10.04 SW =9.94 | 5' DIA. | | | | |
| SMH23 | 25.44 | SW =13.73 NW =9.52 NE =9.62 | 5' DIA. | | | | |
| SMH24 | 27.00 | SE =9.29 | 6' DIA. WW | | | | |
| <u> </u> | | | | | | | |

- BLOWOFFS SHALL BE BRASS PER THE CITY OF COCOA CRITERIA.
- LINE.
- LINES SHALL BE 3/4".
- COPPER, AND CURB STOP.

FOR CONTINUATION SEE SHEET <u>12</u>

| \checkmark | \checkmark | | \checkmark | * | \checkmark | * | \checkmark | | \downarrow | \downarrow | / | \checkmark | * | \checkmark | - - | \lor | \downarrow | * | \checkmark | | \checkmark | * | \checkmark | ÷ | \checkmark | • | Ť | ↓ / | | 1 | | | | | |
|---------------------------|----------------|-----------------|--------------|-----------------|----------------|---------------|----------------|-----------------|-----------------|---------------------------|------------------|-------------------|----------------|-----------------|-----------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|---------------------------|--------------|--------------|---------------------------|----------------------|---------------------------|----------------------------------|--|--------------------|---|
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| \checkmark \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | ₩, | \checkmark | ↓ \ | \downarrow | ∕ | \checkmark | \checkmark | \checkmark | √ √ | | \downarrow | , | \checkmark | \downarrow | \checkmark | + / | | 41 6" | | | NV=21.99 | M | ANAGEM |
| \checkmark | \checkmark | v | \checkmark | · | \checkmark | ÷ | \checkmark | | Let - | | - , | $\overline{}$ | / | \downarrow | | | | , | \checkmark | v | \checkmark | Ť | \checkmark | ÷ | \checkmark | · | Ť | ↓ . | | | | x4' CONC | RETE | | |
| \checkmark | | \checkmark | | \checkmark | 1 | | | | | | | | 4 | ` . _/`` | $\stackrel{\vee}{\searrow}$ | | \lor | \checkmark | | \checkmark | | \checkmark | | \checkmark | `` | \downarrow | \checkmark | | | | | | | | |
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INSTALLATION OF ALL REUSE MAIN, FORCE MAIN, AND WATER MAIN PIPES CONSISTENT WITH THE LOCATIONS DEPICTED UPON THESE PLANS.

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WETLAND AREA

WETLAND BUFFER AREA COMMON CONCRETE SIDEWALK HOME BUILDER CONCRETE SIDEWALK

RECREATIONAL SIDEWALK ELEVATION

FORCE MAIN GATE VALVE NORMAL WATER LEVEL REUSE MAIN WATER MAIN PROPOSED LIGHT POLE FITNESS STATION

GENERAL NOTES:

DETAILS.

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- 1. NO CONSTRUCTION IS ALLOWED WITHIN THE WETLAND CONSERVATION AREA.
- 2. SEE SHEET 23 FOR BREVARD COUNTY SANITARY SEWER DETAILS.
- 4. SEE SHEETS 25-27 FOR CITY OF COCOA TECHNICAL PROVISIONS.
- 5. SEE SHEETS 28-29 FOR CITY OF COCA WATER MAIN
- 6. SEE SHEETS 3A, 3B, 9 AND 9A FOR AMENITIES INFORMATION.

PIPE DEFLECTIONS ALL PIPE DEFLECTIONS SHALL BE PER THE MANUFACTURER'S

RECOMMENDATIONS AND AWWA REQUIREMENTS FOR MAXIMUM DEFLECTION. CONTRACTOR SHALL INCORPORATE THE APPROPRIATE FITTINGS ON PIPE DEFLECTIONS (IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS) TO COMPLETE THE INSTALLATION OF ALL REUSE MAIN, FORCE MAIN, AND WATER MAIN PIPES CONSISTENT WITH THE LOCATIONS DEPICTED UPON THESE PLANS.

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- 1. PONDS 5 AND 6 HAVE BEEN CONSTRUCTED DURING PHASE ONE-A. CONTRACTOR TO ENSURE POND MEETS CURRENT DESIGN CRITERIA.
- 2. NO CLEARING OR CONSTRUCTION IS ALLOWED WITHIN THE WETLAND CONSERVATION AREA.
- 3. INSTALL INLET PROTECTION ON ALL INLETS.
- 4. SEE SHEET 18 FOR PAVEMENT DETAILS.
- 5. SEE SHEET 19 FOR TYPICAL LOT GRADING DETAILS.
- 6. SEE SHEET 20 FOR FDOT DRAINAGE STRUCTURE DETAILS.
- 7. SEE ENLARGEMENT DETAILS ON SHEET 9 FOR SIGNAGE AND PAVEMENT MARKING CALLOUTS.
- 8. MAINTAIN 36" TYPICAL COVER OVER WATER MAIN, RECLAIM WATER MAIN AND FORCE MAIN. PER CITY DETAIL, ("TYPICAL REQUIRED SEPARATION") 30" MINIMUM COVER FOR PVC PIPE AND MINIMUM 24" COVER FOR DUCTILE IRON PIPE. SEE DETAIL SHEET 29.
- 9. WHEN WATER AND OR RECLAIM MAIN CROSSES OVER STORM PIPE MAINTAIN A 6" MINIMUM SEPARATION AT CROSSING, 12" OR GREATER IS PREFERRED PER CITY DETAIL, STORM DRAIN CROSSING. SEE DETAIL SHEET 29.
- 10. WHEN WATER AND OR RECLAIM MAIN CONFLICTS WITH STORM PIPE THE WATER AND OR RECLAIMED MAIN SHALL BE DEFLECTED UNDER STORM PIPE, MAINTAIN A 12" MINIMUM SEPARATION PER CITY DETAIL, STORM DRAIN CROSSING. SEE DETAIL SHEET 29.
- 11. FOR SANITARY AND STORM SEWER PIPE CROSSINGS REFER TO BREVARD COUNTY UTILITY SERVICES DETAILS US-60 AND US-66 ON SHEET 23.

LEGEND

| LEGEND | |
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| | PROPOSED STORM SEWER |
| | EXISTING STORM SEWER |
| | PROPOSED WATER MAIN |
| | PROPOSED REUSE MAIN |
| —————————————————————————————————————— | PROPOSED SANITARY FORCE MAIN |
| | GRADE BREAK LINE |
| 269 | LOT NUMBER |
| | PROPERTY LINE |
| | WETLAND AREA |
| | WETLAND BUFFER AREA |
| | COMMON AREA CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PART OF INFRASTRUCTURE IMPROVEMENTS |
| | HOME BUILDER AREA CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PART OF HOME CONSTRUCTION |
| | RECREATIONAL AREA SIDEWALKS SHALL BE CONSTRUCTED AS PART OF INFRASTRUCTURE IMPROVEMENTS |
| BCUS | BREVARD COUNTY UTILITY SERVICES |
| BVC | BEGIN VERTICAL CURVE |
| EL | ELEVATION |
| EVC | END VERTICAL CURVE |
| FM | FORCE MAIN |
| GB | GRADE BREAK |
| [HP] | HIGH POINT |
| [LP] | LOW POINT |
| NWL | NORMAL WATER LEVEL |
| PVI | POINT OF VERTICAL INTERSECTION |
| RM | RECLAIM WATER MAIN |
| VC | VERTICAL CURVE |
| WM | WATER MAIN |
| * | PROPOSED LIGHT POLE |
| | |

²⁰ of 35 SYMBOLS SHOWN ARE GRAPHIC IN NATURE; DUE TO SCALE, ALL DESIGN ELEMENTS ARE NOT NECESSARILY SHOWN ON PLAN VIEWS. THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION AND DETAIL SHEETS AS WELL AS THE COMPLETE PLAN SET

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| FTP-19-06 1' X 1'-6" 4" Radii 3d" Border Top 4" Series D Bottom 2" Series C | ING Image: Second sec | $= \begin{bmatrix} bcr Text \\ corr Text \\ corr Text \\ corr Text \\ corr $ | \$250 MAX 5.8" Supplemental Panel for the FTP-20-06 and FTP-21-06 signs | B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING |
|--|--|--|---|--|
| White Background Green Legend and Border | 24" | black Legend and Border | r | 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 |
| FTP-23-06 2' X 2' 1.5'' Radii %'' Border Blue Background White Legend and Border | INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS | TTP-24-06 2 X Z 15 Kall % Border Blue Background White Legend and Border | ₹8" *8" 7" | SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 33659 No. 4151 HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 |
| LAST REVISION 11/01/17 | FPOT FY 2020-21 STANDARD PLANS | SPECIAL SIGN DETAILS | INDEX SHEET 700-102 4 of 11 | |
| 11174/111 | Solid Edge Line or Lane Line | I = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = | | |
| LAST REVISION 11/01/19 | FPOT FY 2020-21 STANDARD PLANS | PAVEMENT MARKINGS | INDEX SHEET 711-001 2 of 13 | |
| Face J-6" V Diego Equal Space Per A Face 3-6" V Diego Equal Space Per A | e of Curb Ramp Nhite of white G whit | $\frac{2-\beta^{\prime\prime}}{\int_{0}^{0}\int_{0}^{$ | | Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system 08/19/20 Image: Constraint of the system 08/19/20 Image: Constraint of the system 08/10/2020 Image: Constraint of the system 07/13/20 Image: Co |
| Sign FTP-21-06 And FTP-22-06 Face of Curb "A" 6" White (Typ) | Image: Sidewalk | Sign FTP-21-06 And FTP-22-06 Face of Curb G ^w White (Typ) RKING RKING | a s.F. ESSIBILITY markings. a accessible space | FDOT DETAILS |
| 54. 106 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | An Access in Stephen Stephen When angle parking is used. Criteria for pavement markings only, curb ramp locations. For ramp locatic Tint blue pavement markings to match Federal Standards 595a. Mount FTP-22-06 sign below the FTP- Use of the pavement symbol in access | not public sidewalk ons refer to plans. h color 15180 of 21-06 sign. sible parking spaces | PROJECT NO. 11453.02 |
| LAST DESCRIPTION: REVISION 11/01/19 | FY 2020-21 FI 2020-21 FI ANDARD PLANS | PAVEMENT MARKINGS | INDEX SHEET 711-001 12 of 13 | DRAWING NO. 1145302_400_021 SHEET 21 of 35 |

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| | GENERAL | |
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| | | 3. <u>LANE (</u> |
| 1. | ALL CONSTRUCTION SHALL CONFORM TO FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION), BREVARD COUNTY UTILITY SERVICES CRITERIA FOR WATER AND SANITARY SEWER SYSTEMS, AND BREVARD COUNTY CODE OF ORDINANCES. | IN ADV THE M DURING |
| 2. | ISSUANCE OF CERTIFICATE OF COMPLETION: UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND PRIOR TO SCHEDULING OF THE FINAL INSPECTION, THE APPLICANT OR THEIR AUTHORIZED REPRESENTATIVE, SHALL PROVIDE THE FOLLOWING DOCUMENTATION TO BREVARD COUNTY PUBLIC WORKS ENGINEERING: | 4. ALL TR (LATES |
| | a. A CERTIFICATE OF COMPLETION - REQUEST FOR FINAL INSPECTION FORM. THE FORM MUST BE FROM A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA WITH THEIR SEAL AFFIXED. THE FORM CERTIFIES THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS. | |
| | b. A COMPLETE SET OF TESTING REPORTS FOR ALL TESTS PERFORMED ON THE PROJECT WITHIN THE COUNTY RIGHT-O- WAY AND/OR FOR ALL SUBDIVISION CONSTRUCTION REGARDLESS OF PUBLIC OR PRIVATE | 1. ALL DF EDITIO |
| | c. THREE SETS OF AS-BUILT DRAWINGS MEETING THE REQUIREMENTS OF SECTION 61G17, F.A.C., AND SIGNED AND SEALED BY A | 2. ALL RE |
| | i. ROAD/PAVEMENT ELEVATIONS; ROADWAY CROSS SLOPES; PAVEMENT WIDTH; PAVEMENT SPOT ELEVATIONS NECESSARY TO, CONFIRM STORMWATER DRAINAGE PATTERNS AT INTERSECTIONS AND SIDEWALKS; CURB SLOPES; | 4. ALL ST |
| | ii. STORMWATER PIPE SIZES AND INVERT ELEVATIONS; LOCATION OF OUTFALL STRUCTURE(S) WITH AS-BUILT ELEVATIONS FOR ALL CONTROL STRUCTURE & SKIMMER ELEVATIONS SHOWN ON THE APPROVED PLANS; TOP OF BANK, GRADE BREAKS, BOTTOM ELEVATIONS FOR ALL STORMWATER PONDS OR BERM AREAS; | CONVE 430-4.8 COPY REQUE |
| | iii. ANY OTHER ADDITIONAL AS-BUILT DATA THAT IS APPLICABLE TO THE PROJECT TO ENSURE COMPLETION IN | PROCE |
| | ACCORDANCE WITH THE AFFROVED CONSTRUCTION FLANS. | 5. ALL OF |
| | e. IF A MUNICIPALITY IS ACCEPTING A PUBLIC WATER AND/OR SEWER SYSTEM, THERE MUST BE DOCUMENTATION INDICATING MUNICIPAL ACCEPTANCE OF THE CONSTRUCTION OF THE WATER AND/OR SEWER SYSTEM. | COUNT |
| | f. PUBLIC WORKS ENGINEERING WILL NOT SIGN OFF ON A TEMPORARY CERTIFICATE OF OCCUPANCY (TCO) FROM THE BREVARD COUNTY BUILDING DEPARTMENT UNTIL THE AS-BUILT DRAWINGS AND OTHER DOCUMENTATION LISTED ABOVE HAVE BEEN SUBMITTED AND REVIEWED BY PUBLIC WORKS ENGINEERING. | 6. THE CO ROADV |
| | g. PROJECTS CONNECTED TO THE BREVARD COUNTY WATER, SANITARY SEWER, AND/OR RECLAIMED WATER SYSTEMS MUST OBTAIN FINAL APPROVAL FOR THE PROJECT DIRECTLY FROM BREVARD COUNTY UTILITY SERVICES AS OUTLINED IN THE BREVARD COUNTY CRITERIA FOR WATER AND SANITARY SEWERAGE SYSTEMS | |
| 3. | UPON APPROVAL OF FINAL INSPECTION, AN ENGINEER'S CERTIFIED COST ESTIMATE WILL BE REQUIRED ALONG WITH A 2-YEAR MAINTENANCE BOND FOR ALL IMPROVEMENTS WITHIN THE COUNTY RIGHT-OF-WAY AS REQUIRED BY CHAPTER 86 OF THE BREVARD COUNTY CODE OF ORDINANCES. THE MAINTENANCE BOND SHALL BE 25% OF THE ENGINEER'S CERTIFIED COST ESTIMATE. | 1. ALL DF NOTED |
| 4. | THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO THE COUNTY INFRASTRUCTURE DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE STRUCTURAL INTEGRITY OF THE ROADWAY ASPHALT, BASE, AND STABILIZED SUB-BASE, SIDEWALKS, STORMWATER DRAINAGE SYSTEM, DRAINAGE STRUCTURES, CURBS, GROUND COVER, WATER SYSTEMS, SANITARY SEWER SYSTEMS, AND RECLAIMED WATER SYSTEMS. ALL REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH FDOT AND BREVARD COUNTY STANDARDS. ALL REPAIRS SHALL BE COMPLETED PRIOR TO THE FINAL INSPECTION OF THE PROJECT. SIDEWALK PATCHING WILL NOT BE ACCEPTABLE. | 2. ALL CO SPECIF 3. ALL SII THICK, APRON |
| 5. | A VISUAL OR MECHANICAL INTERIOR INSPECTION OF EXISTING CULVERTS WILL BE REQUIRED PRIOR TO THE FINAL INSPECTION. | ALTER |
| 6. | ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE SODDED. SEED & MULCH IS NOT ACCEPTABLE. SOD SHALL MATCH EXISTING SOD TYPE. BAHIA SOD SHALL BE USED IN AREAS ADJACENT TO VACANT PROPERTY. DISTURBED AREAS OUTSIDE THE CONSTRUCTION LIMITS WILL BE SODDED AT THE CONTRACTOR'S EXPENSE. | 4. CONST BETWE |
| 7. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTATION. ANY SURVEY MONUMENTATION DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A FLORIDA LICENSED SURVEYOR PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR THE PROJECT. | 5. TWO B CONCF FDOT I |
| 8. | REGARDLESS OF PRIVATE OR PUBLIC DEDICATION, THERE SHALL BE NO UTILITY CONNECTIONS OR METER BOXES WITHIN PROPOSED OR EXISTING SIDEWALKS OR DRIVEWAY AREAS. | 6. THE CO |
| 9. | ALL DIRECTIONAL BORES SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 555, DIRECTIONAL BORES AND THE FDOT UTILITIES ACCOMMODATION MANUAL. | AUGEC |
| 10. | ALL DIRECTIONAL BORES MUST EXTEND A MINIMUM OF EIGHT(8) FEET PAST THE EDGE OF PAVEMENT OF ANY ROADWAY OR COMMERCIAL DRIVEWAY. FOR RESIDENTIAL DRIVEWAYS AND SIDEWALKS, THE BORE MUST EXTEND THREE (3) FEET PAST THE EDGE ON EITHER SIDE. | |
| 11. | THE CONTRACTOR SHALL CONTROL DUST GENERATED BY THIS PROJECT AT ALL TIMES, SHALL PROVIDE STREET SWEEPING AS REQUIRED, AND PREVENT SEDIMENT FROM ENTERING INTO THE EXISTING DRAINAGE SYSTEM AT ALL TIMES. | THE FOLLOV a. AL |
| 12. | THE CONTRACTOR SHALL NOT EXCEED NOISE LEVELS AS SPECIFIED IN BREVARD COUNTY CODE OF ORDINANCES SECTION 62-2271. | b. AL |
| 13. | ALL STRIPING AND PAVEMENT MARKINGS IN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND SHALL NOT BE APPLIED UNTIL A MINIMUM OF 30 DAYS AFTER THE PLACEMENT OF THE FINAL ASPHALT SURFACE. IN THE INTERIM, STRIPING SHALL BE PAINT AND ANY REQUIRED RPM'S INSTALLED PER THE PLANS. DO NOT STRIPE ACROSS MANHOLE LIDS OR DRAINAGE GRATES. | c. AL SECTIONS V |
| 14. | REFLECTIVE PAVEMENT MARKINGS (RPM'S) SHALL BE INSTALLED IN ALL LOCATIONS AS REQUIRED BY FDOT DESIGN STANDARD.(LATEST EDITION) | REQUIRED F |
| 15. | ANY PAVEMENT MARKINGS AND RPM'S THAT ARE DESTROYED, DAMAGED, OR DIMINISHED BY CONSTRUCTION ACTIVITIES FOR UP TO 500 FEET IN EITHER DIRECTION BEYOND THE LIMITS OF CONSTRUCTION SHALL BE REPLACED OR REFUBBISHED BY THE CONTRACTOR | FOR S-TV |
| 16. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE COUNTY RIGHT-OF-WAY FOR THE DURATION OF CONSTRUCTION. AT A MINIMUM, THE CONTRACTOR SHALL MOW THE RIGHT-OF-WAY ON AN AS NEEDED BASIS AND MAINTAIN THE DRAINAGE CONVEYANCE SYSTEM. ADDITIONAL MAINTENANCE MAY BE REQUIRED ON A CASE BY CASE BASIS. | 1. THE CO FLORIE TO PA CERTIE |
| | TRAFFIC CONTROL | 2. THE CO |
| | | 3. THE CO |
| 1. | MOT PLAN REVIEW: A PROJECT-SPECIFIC MAINTENANCE OF TRAFFIC (MOT) PLAN OR ROADWAY CLOSURE MOT/DETOUR PLAN MUST BE SUBMITTED TO BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION. THE MOT PLAN SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND | 4. PAVEN 5. THE CO |
| | FOOT STANDARD INDEX 600 SERIES,(LATEST EDITIONS). PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS OR VMS) MAY BE REQUIRED TO SUPPLEMENT THE STANDARD MOT SIGNAGE. | 6. QUALI |

2. ROAD CLOSURES: THE CONTRACTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE PROPOSED START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY, FOR EACH PHASE OF CONSTRUCTION, IF APPLICABLE. CONSTRUCTION SHALL NOT BEGIN UNTIL THE MOT PLAN IS APPROVED AND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. CERTAIN LOCATIONS MAY REQUIRE WORK IN THE RIGHT-OF-WAY TO BE PERFORMED AT NIGHT ONLY.

| PROJECT NAME.DWG DESIGNED/DRAWN BY: JB CHECKED BY: RBS | DATE: REVISION: BY: 1. FOR DISTRIBUTION 10-10-12 | PREPARED BY: PUBLIC WORKS DEPARTMENT ENGINEERING PROGRAM BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS 2725 JUDGE FRAN JAMIESON WAY, RM. 204, BLDG. A, VIERA, FL 32940 Ph. (321) 637–5437, Fx. (321) 633–2083 | DATE: OCTOBER 2012 | APPROVED BY: RICHARD B. SZPYRKA, P.E. ENGINEERING PROGRAM MANAGER |
|--|--|--|-----------------------|---|

UBLIC WORKS ENGINEERING STANDARD DEVELOPMENT NOTES

CLOSURES: THE CONTRACTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF ONE (1) WEEK ANCE OF THE PROPOSED START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY. CONSTRUCTION SHALL NOT BEGIN UNTIL 10T PLAN IS APPROVED AND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. NO LANE CLOSURES WILL BE PERMITTED NG PEAK HOUR TRAFFIC VOLUMES.

AFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE MUTCD FOR STREETS AND HIGHWAYS, FDOT STANDARDS ST EDITIONS), AND BREVARD COUNTY LAND DEVELOPMENT EXHIBIT #26.

DRAINAGE - ROADWAYS

RAINAGE SYSTEM CONSTRUCTION SHALL CONFORM TO FOOT STANDARD SPECIFICATIONS AND FDOT DESIGN STANDARDS,(LATEST DNS).

ETICULINE STEEL GRATES SHALL BE HOT DIPPED GALVANIZED AND HAVE A TRAFFIC BEARING H-20 LOAD RATING.

RATES UTILIZED WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE TRAFFIC BEARING H-20 LOADING.

ORMWATER PIPING WITHIN THE ROAD RIGHT-OF-WAY, REGARDLESS OF PUBLIC OR PRIVATE, OR STORMWATER PIPING THAT EYS STORMWATER UNDER THE ROADWAY BETWEEN STORMWATER TREATMENT PONDS. SHALL BE INSPECTED PER SECTIONS 3, 430-4.8.1, AND 430-4.8.2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,(LATEST EDITION). A OF THE PIPE VIDEO SHALL BE PROVIDED TO THE COUNTY AS PART OF THE SUBMITTAL OF THE CERTIFICATION OF COMPLETION EST FOR FINAL INSPECTION. THE COUNTY SHALL BE NOTIFIED ONE WEEK PRIOR TO THE START OF THE PIPE VIDEO INSPECTION ESS.

PEN CUTS SHALL CONFORM TO LAND DEVELOPMENT EXHIBIT #25. FOR ALL OPEN CUTS, THE FLOWABLE FILL AND TEMPORARY ALT SHALL BE INSTALLED WITHIN TWO (2) DAYS OF THE EXCAVATION (UNLESS OTHERWISE APPROVED IN WRITING BY BREVARD TY PUBLIC WORKS ENGINEERING). PERMANENT ASPHALT INCLUDING MILLING AND RESURFACING, IF NEEDED, SHALL BE LETED WITHIN THIRTY (30) DAYS OF EXCAVATION.

ONTRACTOR SHALL REMOVE THE SHOULDER OF THE ROADWAY TO A POINT WHERE THE BASE MATERIAL OF THE EXISTING WAY MEETS THE MINIMUM THICKNESS OF THE PROPOSED ROADWAY/COMMERCIAL DRIVEWAY CONNECTION.

CONCRETE PAVING AND SIDEWALK

RIVEWAYS SHALL BE CONSTRUCTED PER FDOT INDEX 515 AND/OR BREVARD COUNTY STANDARD EXHIBITS UNLESS OTHERWISE

ONCRETE SHALL MEET FDOT DESIGN MIX AND SPECIFICATIONS. CURING METHOD SHALL BE IN ACCORDANCE WITH THE FDOT FICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (LATEST EDITION).

DEWALKS WITHIN THE COUNTY RIGHT-OF-WAY OR WITHIN A PUBLIC SIDEWALK EASEMENT SHALL BE CONSTRUCTED OF 6-INCH , 3000-PSI CONCRETE WITH FIBER MESH REINFORCEMENT. CONCRETE SIDEWALKS (OR PEDWAYS) AND CONCRETE DRIVEWAY NS SHALL BE CONSTRUCTED OVER SOILS COMPACTED TO 98% DENSITY, OF AASHTO T -180. SHOULD EXISTING SOILS BE FOUND ITABLE FOR COMPACTION. ADDITIONAL COMPATIBLE MATERIALS SHALL BE BROUGHT TO THE SITE FOR USE AS SUBGRADE. RNATE METHODS OF COMPACTION MAY BE REQUIRED TO AVOID DAMAGE TO SURROUNDING PROPERTIES.

FRUCT SIDEWALK JOINTS PURSUANT TO FDOT INDEX 310 (LATEST EDITION). EXPANSION JOINTS SHALL BE EVERY 50 FEET, AND EEN NEW AND OLD CONCRETE.

BY FOUR FORM BOARDS SHALL NOT BE USED FOR SIDEWALK/DRIVEWAY CONSTRUCTION. FORM BOARDS SHALL MATCH PROPOSED RETE THICKNESS. SLIP FORMS SHALL NOT BE USED FOR SIDEWALK CONSTRUCTION. FIXED FORMWORK SHALL BE REQUIRED PER NDEX 300.

ONTRACTOR SHALL PROVIDE A 3-FOOT CURB TRANSITION AT ALL CURB TERMINATIONS.

DEWALK AND ACCESS RAMP CONSTRUCTION SHALL COMPLY WITH THE DEPARTMENT OF JUSTICE 2010 ADA STANDARDS FOR SSIBLE DESIGN, FDOT DESIGN STANDARDS (LATEST EDITION), AND BREVARD COUNTY DEVELOPMENT REQUIREMENTS.

ASPHALT PAVING AND TESTING

WING TESTING REQUIREMENTS APPLY TO:

LL PUBLIC AND PRIVATE SUBDIVISION PROJECTS PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT;

LL SITE PLAN PROJECTS PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT REQUIRING WORK IN THE COUNTY RIGHT-OF-WAY;

LL PROJECTS PERMITTED THROUGH BREVARD COUNTY PUBLIC WORKS FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY. WITHIN THE FDOT STANDARD SPECIFICATIONS LIMITING TESTING REQUIREMENTS BASED ON LOT SIZE, SUB-LOT SIZE, TONNAGE, IICKNESS, OR SPREAD RATE WILL NOT APPLY TO THE PROJECTS LISTED ABOVE. AT A MINIMUM, ONE SET OF TESTS WILL BE FOR ALL PAVING PROJECTS LARGER THAN 50 TONS TOTAL AND ADDITIONAL TESTING MAY BE REQUIRED ON A CASE BY CASE N OF THE PROJECT. TESTING REQUIREMENTS AT THE ASPHALT PLANT WILL NOT APPLY.

PE ASPHALT AS SPECIFIED IN THE 2000-2004 FDOT STANDARD SPECIFICATION

ONTRACTOR SHALL PROVIDE A DESIGN MIX SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DA AND APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR VING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 331-4 (2000). DESIGN MIXES BY FDOT FIED MIX DESIGNERS WILL NOT BE ACCEPTED.

ONTRACTOR SHALL PROVIDE EXTRACTION/GRADATION TESTS IN ACCORDANCE WITH SECTION 331-4.4.2 (2000).

ONTRACTOR SHALL PROVIDE MARSHALL STABILITY TESTING IN ACCORDANCE WITH SECTION 331-5.5.1 (2000).

MENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-13 (2000).

ONTRACTOR SHALL PROVIDE SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN RDANCE WITH SECTION 330-13.3 (2000).

6. QUALITY CONTROL CORE BORINGS SHALL BE OBTAINED FOR THICKNESS PER SECTION 330-2.2 ROADWAY, (2004) AND DENSITY PER SECTION 330-11, TABLE 330-3 (2000).

7. ASPHALT TEST RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES WILL NOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.

FOR SUPERPAVE (SP) ASPHALT AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATION

- BE ACCEPTED.
- 334-5, AND 334-5.2.3 (2010).

- OR GREATER IN ACCORDANCE WITH 330-12 (2010).

FOR FRICTION COURSE FC-5 AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATION :

- APPROVED WILL NOT BE ACCEPTED.

- OR GREATER IN ACCORDANCE WITH SECTION 330-12 (2010).

FOR SUPERPAVE FRICTION COURSES FC-9.5 & FC-12.5 AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATIONS:

- ACCEPTED.
- 337-4, 337-6, 337-8, AND 334-5.2.3 (2010).

- OR GREATER IN ACCORDANCE WITH 330-12 (2010).

- PERMITTED.

- CONSTRUCTION.

1. THE CONTRACTOR SHALL PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 334-2 & 334-3 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED WILL NOT

2. THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 334-5. (2010) HOWEVER. THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.

3. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL, DENSITY, AND THICKNESS TESTING IN ACCORDANCE WITH SECTIONS 334-3, 334-4,

4. ASPHALT TESTING RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES, AS NOTED IN TABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.

5. PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).

6. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH

1. THE CONTRACTOR SHALL PROVIDE PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 337-4 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT

2. THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (2010). THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.

3. PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).

QUALITY CONTROL CORE BORINGS SHALL BE OBTAINED FOR THICKNESS TESTING USING SECTION 334-5.2.3 (2010)

5. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH

1. THE CONTRACTOR SHALL PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 337-4 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED WILL NOT BE

2. THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (2010). THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT, AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.

3. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL, DENSITY, AND THICKNESS TESTING IN ACCORDANCE WITH SECTIONS 337-1, 337-3,

4. ASPHALT TESTING RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES, AS NOTED IN TABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.

5. PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).

6. THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH

CONCRETE BOX CULVERT NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND BREVARD COUNTY STANDARDS.

2. PRIOR TO START OF CONSTRUCTION, THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STRUCTURAL ENGINEERING DRAWINGS (SIGNED & SEALED BY A PROFESSIONAL ENGINEER LICENSED & REGISTERED IN THE STATE OF FLORIDA) FOR ALL COMPONENTS OF THE CONCRETE BOX CULVERTS, INCLUDING WINGWALLS, TOE SLAB & CUTOFF WALLS, AND HEADWALLS. THE DRAWINGS SHALL INCLUDE QUANTITIES TABULATIONS FOR CLASS IV CONCRETE (CUBIC YARDS), AND REINFORCING STEEL (POUNDS). THE DESIGN MUST BE BASED ON FDOT'S LOAD & RESISTANCE FACTOR DESIGN (LRFD) PROGRAM. SEPARATE DRAWINGS ARE REQUIRED FOR ALL WINGWALLS, TOE SLABS & CUTOFF WALLS, AND HEADWALLS, WHICH MUST BE CAST-IN-PLACE PER FDOT SPECIFICATIONS.

3. ALL BOX CULVERT MATERIALS THAT ARE TO BE INSTALLED UNDER ROADWAYS AND/OR DRIVEWAYS ARE TO BE DELIVERED TO SITE (AND PASS INITIAL INSPECTIONS) PRIOR TO START OF DEMOLITION OF EXISTING SYSTEM.

CONCRETE (PRECAST OR CAST-IN-PLACE) REQUIREMENTS: CLASS IV (5500 PSI).

5. REINFORCING STEEL REQUIREMENTS: ASTM A615 GRADE 60 DEFORMED BAR UNLESS OTHERWISE NOTED, WITH A MINIMUM CLEARANCE OF 3" (THREE INCHES), UNLESS OTHERWISE SHOWN. EQUAL AREA SUBSTITUTION OF WELDED WIRE (WWR) REINFORCEMENT IS

6. REFER TO FDOT INDEX 292 FOR PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESSES, REINFORCEMENT AREAS, GENERAL NOTES (SHEET 2 OF 14), AND WELDED WIRE REINFORCEMENT BENDING DIAGRAMS (SHEET 14 OF 14).

7. REFER TO FDOT INDEX 289 FOR CONCRETE BOX CULVERT DETAILS RELATED TO LRFD.

REFER TO FDOT INDEX 291 FOR SUPPLEMENTAL DETAILS FOR PRECAST CONCRETE BOX CULVERTS.

9. IF REQUIRED, BY-PASS PUMPING AND/OR PIPING SHALL BE APPROVED BY BREVARD COUNTY PUBLIC WORKS PRIOR TO THE START OF

| BREVARD COUNTY PUBLIC WORKS ENGINEERING | SHEET |
|--|-------|
| STANDARD DEVELOPMENT NOTES | OF |

22 of 35

NP 3127 SH 3~ 249

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Possible to be upgraded with Guide-pin for even better clogging resistance. Modular based design with high adaptation grade.

Technical specification

Configuration Motor number

| Motor number | Installation type | |
|------------------------------------|---|-----------|
| N3127.060 21-11-2AL-W 11hp | P - Semi permanent, Wet | |
| Impeller diameter 146 mm | Discharge diameter 3 1/8 inch | |
| Pump information | | Mater |
| Impeller diameter | | Impeller |
| 146 mm | | Hard-Iro |
| Discharge diameter | | Stator ho |
| 3 1/8 inch | | Grey cas |
| Inlet diameter | | |
| 100 mm | | |
| Maximum operating speed | | |
| 3505 rpm | | |
| Number of blades 2 | | |

Max. fluid temperature 40 °C

Project Created by Block

1.1 GENERAL

These Technical Provisions and Standard Details identifies design, installation, inspection, and acceptance specifications to be used for water, wastewater, and reclaimed water systems that will be maintained and operated by the City of Cocoa. All potable water, wastewater, and reclaimed water mains and appurtenances must be installed in accordance with this Manual, the City of Cocoa Cross Connection Control Program Manual, the City of Cocoa Utilities Handbook, and the approved plans.

Contractor requirements include:

his designee prior to commencement of construction.

Furnishing all labor, materials, tools and equipment necessary or incidental to the construction

Obtaining and paying for all permits, inspections, and other official fees in connection with the work.

Arranging a pre-construction conference with the Engineering Inspection Division. All fees must be paid prior to the pre-construction meeting. It is required that the pre-construction meeting be held prior to ordering materials.

Scheduling materials inspection (24-hour notice), open ditch inspection, pressure/leakage test, and final inspection.

Provide all documents per the project requirement letter, including but not limited to As Built Drawings, Bills of Sale, Easements, etc.

Make certain that no public water/wastewater lines are placed on private property. Any deviation from these requirements must be approved in writing by the Utilities Director or

Fees charged by the City are set by City Council by resolution and are listed on the appendix "Water Service Rates and Charges" made a part of the Utilities Handbook. Fees are subject to change without notice. The most current fees will be charged.

The Utilities Department and Engineering Division are located at 351 Shearer Blvd., Cocoa, Florida, 32922. The telephone number is (321) 433-8701; facsimile number is (321) 433-8708.

1.2 DEFINITIONS

The term "approved equal" is used to mean a part or item that has been approved in writing by the Technical Provision and Standard Details Advisory Committee or the Utilities Director. A written request must be made in order to have an item accepted as an approved equal. Written specifications on the part or item must be furnished with the request.

Approved Tapping/Linestop Contractor - A Contractor who has been approved by the Engineering Division to perform taps or linestops within the Cocoa Water System. A current list is maintained and available through the Engineering Division.

Backflow Preventer Assembly - A backflow preventer assembly, also called a cross connection control (CCC) device, is a mechanical or non-mechanical device used to prevent the flow of water from a non-potable source to the potable water distribution system. Approved backflow preventers are testable assemblies composed of two independently acting, approved check valves, including tightly closing resilient seated shutoff valves attached at each end of the assembly, and fitted with properly located resilient seated test cocks.

Canal - A trench, the bottom of which is normally covered by water, with the upper edges of its two sides normally above water

City - Means the City of Cocoa.

Collection Mains - Wastewater gravity mains.

Competent Person - A person who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Distribution Main - Any water main twelve inches (12") and smaller.

Domestic - Means made or manufactured in the USA.

Drainage Ditch or Irrigation Ditch - A man-made trench which is dug for the purpose of draining water from the land or for transporting water for use on the land and which is not built for navigational purposes.

Force Main - Wastewater main under pressure.

Manual - City of Cocoa Utilities Technical Specification and Standard Details Manual

Normal Working Day - Monday through Friday, excluding CITY holidays.

Normal Working Hours - Hours are between the hours of 8:00 a.m. to 5:00 p.m. of a NORMAL

Passivated - Treated or coated metal to reduce the chemical reactivity of its surface.

Stainless Steel - A steel alloy with a minimum of 10.5% to 11% chromium.

Substantial Completion - The point when the construction project has been finished to the point that the City of Cocoa can use the project for the purpose it was intended.

Swale - A manmade trench which:

WORKING DAY

Division.

- A. Has a top width-to-depth ratio of the cross-section equal to or greater than 6:1, or side slopes equal to or greater than three feet horizontal to one foot vertical; B. Contains contiguous areas of standing or flowing water only following a rainfall event; C.
- Is planted with or has stabilized vegetation suitable for soil stabilization, stormwater treatment, and nutrient uptake:
- D. Is designed to take into account the soil erodibility, soil percolation, slope, slope length, and drainage area to prevent erosion and reduce pollutant concentration of any discharge.

Technical Provision and Standard Details Committee - Committee whose members shall consist of the manager, or their designee, of the following UTILITIES staff: Engineering, Inspections, Water Field Operations, and Sewer Field Operations. The committee evaluates and proposes revisions for the design standards, specifications, drawings, products and procedures for the

Transmission Main - Any water main sixteen inch (16") and larger. Fourteen-inch (14") pipelines are not acceptable

Utilities - Utilities Department of the City of Cocoa, Cocoa, Florida, and/or its designated representative(s)

Utilities Handbook - The City of Cocoa Utilities Handbook produced by the Customer Service Division of the Finance Department.

Whenever a specification from a specific source is cited, the most current revision of that specification will be used. The word "shall" is mandatory, and the word "may" is permissive.

Unless otherwise specified, "City" means City of Cocoa; "Utilities Department" means City of Cocoa Utilities Department; "Engineering Division" means City of Cocoa Utilities Engineering Division, "Inspections or Inspector" means City of Cocoa Utilities Engineering Inspections

1.3 ABBREVIATIONS

American Association of State Highway and Transportation Officials - AASHTO Asbestos Cement - AC Association of PVC Pipe Manufacturers - Uni-Bell American National Standards Institute - ANSI American Society of Civil Engineers -ASCE American Society of Mechanical Engineers - ASME American Society for Testing and Materials - ASTM American Water Works Association - AWWA American Water Works Association Tapered Thread - CC American Society of Sanitary Engineers - ASSE Automatic Transfer Switch - ATS City of Cocoa - CoC Copper Clad Steel - CCS Copper Development Association - CDA Cross Connection Control - CCC Dimension Ratio - DR Double Check Backflow Assembly - DC Double Check Detector Assemblies - DCDA Dry Film Thickness - DFT Ductile Iron Pipe Research Association - DIPRA Ductile Iron Pipe DIP Engineer of Record - EOR Florida Administrative Code - FAC Florida Department of Environmental Protection - FDEP Florida Department of Transportation - FDOT Florida East Coast Rail Road - FECRR Foundation for Cross-Connection Control and Hydraulic Research - FCCCHR Flange Factory Mutual - FM High-Density Polyethylene - HDPE Horizontal Directional Drilling - HDD Jack and Bore - J&B Maintenance of Traffic - MOT Manual on Uniform Traffic Control Devices - MUTCD National Association of Corrosion Engineers - NACE National Fire Protection Association - NFPA National Sanitation Foundation - NSF National Standard Thread - NST Non-rising stem - NRS Original Equipment Manufacturer - OEM Outside Screw and Yoke - OS&Y National Pollution Discharge Elimination System - NPDES Plain End - PE Polyvinylchloride - PVC Precautionary Boil Water Notice - PBWN Portable Changeable Message Signs - PCMS Pre-stressed Concrete Cylinder Pressure Pipe - PCCP Project Manager - PM Pounds per Square Inch - PSI Raised Pavement Marker -RPN Reduced Pressure Backflow Assembly - RP Reduced Pressure

Detector Assembly- RPDA Reinforced Concrete Pressure Pipe -RCP Stainless Steel - SS Technical Provision and Standard Details - TPSD Traffic Control

Plan - TCP Underwriters Laboratories - UL Unified Numbering

System - UNS Variable Frequency Drive - VFD

2.1 WATER MAIN CROSSINGS

2.1.1 GENERAL

In all cases where sanitary gravity or force mains cross water mains the crossing shall meet the vertical and horizontal separation requirements of FAC Rule 62-555.314. When separation requirements cannot be met, the Engineer of Record must propose an alternative solution that meets the requirements of FAC 62-555.314 for approval by the Engineering Division. The water main should cross above the sanitary main, when the water main must cross below the sanitary main, the minimum separation shall be 12 inches.

2.2 MATERIALS SPECIFICATIONS

2.2.1 PIPE

2.2.1.1 Polyvinyl Chloride Pressure Pipe, 4" - 12"

Polyvinyl chloride pressure pipe (sizes 4" through 12") will be cast iron pipe equivalent outside diameter Class 235 (DR 18) conforming to the American Water Works Association's (AWWA) specification C900 and will be blue or white in color. Pipe will be in standard 20-foot lengths. All joints will be of the elastomeric-gasket type with thickened, integral solid-wall bell or coupling with the same DR as the barrel. All PVC pipe and couplings will bear the UL label and NSF approval for potable water.

2.2.1.2 Fusible Polyvinyl Chloride Pipe, 4" - 12"

Polyvinyl chloride pressure pipe (size 4" through 12") will be cast iron pipe equivalent outside diameter and a pressure rating of 235 PSI (DR 18) conforming to AWWA specification C900 and will be blue or white in color. Fusible PVC pipe shall be supplied by Underground Solutions, Inc. It shall be installed in accordance with the suppliers' specifications. All PVC pipe will bear the UL label and NSF approval for potable water.

2.2.1.3 Ductile Iron Pipe

Ductile iron pipe will be cement-lined pressure Class 350 for 12-inch diameter and smaller and Class 250 for 16-inch and larger conforming to AWWA specification C151. Water main and storm drain crossing conflicts will be properly designed by the project engineer and approved by theUtilities Department prior to installation. Water mains that are less than 10 feet apart from building foundations or other permanent objects will be ductile iron pipe. In no case will water mains be located less than 5 feet from foundations. The above distances will be doubled for water mains larger than 8" in diameter. Polyethylene sleeve conforming to AWWA specification C105 will be provided for all installations. The polyethylene sleeve will be sealed with tape and shall be blue for water mains.

2.2.1.4 High Density Polyethylene (HDPE) Pipe

HDPE pipe is generally not accepted in the City of Cocoa water system, except as a carrier pipe for a pressurized utility main.

2.2.1.5 Reclaimed Water

PVC pipe installed in reclaimd water systems will be Class 235 (DR 18) conforming to AWWA specification C900 and will be purple in color. Ductile iron pipe installed in the reclaimed water system will be pressure Class 350 for 12" and smaller and pressure Class 250 for 16" and larger, provided 3 feet of cover can be maintained. Where cover is less than 3 feet, pressure Class 350 is required. Polyethylene sleeve conforming to AWWA specification C105 will be provided for all installations. The polyethylene sleeve will be sealed with tape and shall be purple for reclaimed water mains.

2.2.2 VALVES, VALVE BOXES, AND VALVE EXTENSIONS

2.2.2.1 Resilient Seat Gate Valves. 4" - 36"

Resilient seat gate valves will have mechanical joint ends as manufactured by American Flow Control; AVK; M&H; U.S. Pipe; Clow; Mueller or an approved equal. The resilient seat gate valves must conform to AWWA specification C509 or C515 and be manufactured in the U.S.A. Resilient seats will be of natural or synthetic rubber and be fully encapsulated to gate. Valves will have 18-8 Type 304 Stainless Steel bolts and nuts. The interior and exterior of the valve body will be fusion-bonded epoxy coated in accordance with AWWA specification C550 in order to provide a corrosion-resistant seat. The coating must be applied in a manner to withstand the action of line fluids and operation of the sealing gate under long-term service. Valve seats must seal by compression only. Wedging or sliding of the resilient seat is not acceptable. Valves will be supplied with 2"-square operating nuts and be designed to provide a bubble tight seal regardless of direction of flow. Opening the valve will be in the counterclockwise direction. Valves 16" and larger will have Bevel Gear Operators. For gate valves 16" and larger to be stood up straight, the 2" operating nut must have 12" of cover. Engineer of Record or Contractor must demonstrate the 12" of cover over the 2" operating nut can be achieved by showing all pertinent dimensions. Tapping valves shall have a centering ring.

2.2.2.2 Butterfly Valves, 16" and Larger

Butterfly valves shall be used for above ground service. Butterfly valves shall have flanged ends, be rubber seated, 900 tight closing type, short body. The interior and exterior will be fusionbonded epoxy coated in accordance with AWWA specification C550. The valve shaft will be of 316 Stainless Steel. Body dimensions and minimum shaft diameter will be in accordance with Tables 1 and 3 of AWWA specification C504. The valve seat will be of molded natural or synthetic rubber, will be mechanically secured to the disc or to the valve body, and will mate against a stainless-steel seat surface. The gear ratio will be such as to require not more than 50-foot pounds of input torque to operate the valve against the worst case of a water flow velocity of 10 feet per second at a pressure of 100 psi differential. A torque-limiting device will be supplied if the allowable operator input is less than 450-foot pounds. Butterfly valves will have a factory installed hand wheel. The valve will open when the operator nut is turned counterclockwise. Butterfly valves will not be used for buried service.

2.2.2.3 Valves, 2"

Two-inch valves for use with the 2" blow-off gate valve will be rated at 125 SWP or 200 WOG. All 2" gate valves must meet all EPA and DEP requirements regarding lead and zinc contents. Brass fittings and 2" brass wheel valves are shall be used on blow-offs. All valves must be manufactured in the U.S.A.

2.2.2.4 Valve Boxes

Valve boxes and lids must be manufactured in the U.S.A. Boxes and lids must be structurally equal to those produced by East Jordan Iron Works or Tyler and must have 5-1/4" minimum inside diameter. Cast iron valve boxes will consist of a circular cast iron top and bottom section. The depth must be determined, and the appropriate valve box must be installed. No PVC or Ductile is permitted in the valve box. Boxes must be set flush with finished ground surface in such a manner as to permit easy use of a valve wrench and to prevent surface loads from being transmitted to the valve or pipe. Box sections must be telescopic and adjustable. Valve box lids should have the word "WATER" or "SEWER" or "REUSE", as appropriate, cast on the top. A concrete pad (24" L x 24" W x 4" D) will be poured around all boxes at finished grade level unless the valve is located in a paved roadway or parking lot. A Valve identification plate engraved to indicate the type, size, and number of turns will be securely anchored to the concrete pad. Valve identification plates for valves 12" and larger will also indicate the torque necessary for actuation.

2.2.2.5 Valve Extensions

If the depth of the valve nut is greater than 48" below grade, or 30" below grade and under the water table, a valve extension stem will be required. The extension will have a centering collar and will be mechanically attached to the valve operating nut, such as extensions manufactured by the General Engineering Company, Model #4840-0001-3, or an approved equal to be determined by the Engineering Supervisor or his/her designee.

2.2.2.6 Valve Box Debris Shield

All buried valves 4-inch through 12-inch requiring a valve box shall be furnished with a valve box shield (alignment device). The device shall minimize debris infiltration and center the valve box over the operating nut. The device shall be of HDPE or plastic and colored white or black. It shall be furnished in two pieces that will lock together under the operating nut without requiring the removal of the operating nut. The device shall not affect the operation of the valve. No onepiece device will be accepted. The device shall be **Box Lok**, **American** or approved equal.

2.2.2.7 Insert Valve Specification

The Insert Valve shall conform to the following:

The Ductile Iron 250 p.s.i.g. Insert Valve shall be a Resilient Wedge Gate Valve designed for use in potable water, raw water, reclaimed water, wastewater and backflow control systems. The host pipe shall not be a permanent component of the Insert Valve. The ductile iron body, bonnet, and wedge provide strength and a pressure rating that meets or exceeds the requirements of AWWA C515. Insert Valve shall be ductile iron construction meeting ASTM A536 Grade 65-45-12.Sizes 12" and smaller must be capable of working on Cast/Grey Iron or Ductile Iron Class A, B, C and D, IPS PVC, C900 and C909 PVC, Steel, AC pipe diameters without changing either top or bottom portion of split valve body. The Insert Valve shall have a 250 psig maximum working pressure. The pressure rating markings must be cast into the body of the insert valve. The construction of the Resilient Wedge shall comply with AWWA C509 requirements. The ductile iron wedge shall be fully encapsulated with EPDM rubber by a high pressure and high temperature compression or injection mold process. The resilient wedge shall seat on the valve body and not the pipe to obtain the optimum seating and flow control results. The resilient wedge shall be totally independent of the carrier pipe. The resilient wedge shall not come into contact with the carrier pipe or depend on the carrier pipe to create a seal. The Resilient wedge must ride inside the body channels to maintain wedge alignment throughout its travel. The insert valve is fully epoxy coated on the interior and the exterior. Valve shall be coated with a minimum of 10 mils epoxy in compliance with AWWA C550 and certified to ANSI/NSF-61. The stuffing box, operating stem and resilient wedge (complete bonnet and all moving parts) shall be removable, repairable and or replaceable under pressure.

See "Appendix A" Approved Materials for approved Insert Gate Valves.

2.2.3 BACKFLOW PREVENTERS

2.2.3.1 General

All connections to the City of Cocoa potable water system shall contain a backflow preventer assembly as required in the "City of Cocoa Cross Connection Control Program Manual". Backflow preventer assemblies shall be in accordance with AWWA specification C510, ASSE 1048, UL 1469, and as listed in "Appendix A" of this document. All backflow preventers shall be installed per Standard Details in "Appendix B". Backflow preventers on fire line and commercial services shall have test certifications submitted and approved prior to final inspection.

Backflow preventers will have interior fusion bonded epoxy coating 5 to 12 mils and will be installed above grade in accordance with manufacturer's recommendations on a concrete slab adjacent to the meter. Check valves must have bronze seats.

Commercial Services: Cross connection control device required for commercial service including multi-family residences, shall be a reduced pressure (RP) backflow preventer unles otherwise approved by the Engineering Division.

Residential Services: Cross connection control device required for residential service shall be dual check backflow preventer.

Construction Sites: Cross connection control device required for temporary construction jumpers shall be a double check backflow preventer. The Contractor shall provide tes certifications on the jumper backflow preventer before the jumper is placed into service.

2.2.3.2 Fire Services

Cross connection control devices for fire line systems shall be double check detector assemblie (DCDA) or reduced pressure detector assemblies (RPDA). DCDA and RPDA shall meet t requirements of the Florida Building Code and must be supplied with a ¾-inch or larger bypa assembly. DCDA will be accepted as a complete approved assembly in accordance with t section on "Backflow Prevention and Cross-Connection Control" in the Utilities Handbook. Th Engineering Division will inspect the interior of the DCDA prior to installation. DCDA must installed horizontally above ground in a grassed or non-traffic area. The DCDA will be installed with 24" minimum and 30" maximum clearance from finished grade. "N" shaped DCDA will b accepted on a case-by-case basis. Fire lines requiring an RPZ will be handled on a case-by-cas base. The Engineering Division shall paint the DCDA, to be paid for by the Developer/Contractor

2.2.3.3 Meter Station Backflow Preventer

Backflow Preventers for the large meter stations (3-inch and larger) are a Reduced Pressu Zone Assembly and manufactured in accordance with AWWA C511. The assembly will be installed so as the relief valve opening will be a minimum of 12" above concrete slab. If th meter station is in a planter, the top of the planter is considered the flood rim and the relie valve opening shall be 12" above the concrete slab. The Engineering Division shall paint th meter station assembly, to be paid for by the Developer/Contractor.

2-inch meter stations may be allowed on a case-by-case basis as approved by the Engineerin

2.2.3.4 Backflow Preventer Certification Test

The Contractor will provide test certifications on the jumper backflow preventer before jump is placed into service. Backflow preventers on fire-line and meter stations will have tes certifications submitted and approved prior to final inspection.

2.2.4 FITTINGS

All fittings must be of the mechanical joint type with an approved joint restraint, or pushjoint with a gasket joint field restraint system. All fittings must be manufactured in the U.S.A.

2.2.4.1 Cast Iron

Cast iron fittings will be AWWA specification C110; Class 250, cement lined with inside seal coating. The fittings will be bituminous coated on the outside and be wrapped with 6 m polyethylene (sealed with tape). Cast iron fittings are only to be used in larger application where ductile iron fittings are not available.

2.2.4.2 Ductile Iron, 4" - 16"

Ductile iron compact fittings (sizes 4" through 16") must conform to AWWA specification C15 Ductile iron compact fittings will be mechanical joint with an interior cement lining with se coating and an exterior bituminous coating. All fittings will be wrapped with 6 mil polyethyler (sealed with tape).

2.2.4.3 Bolts

All buried mechanical joint bolts and nuts must be CORTEN Steel. All above ground bolts an nuts for flanged fittings must be 18-8 Type 304 stainless steel. Never-seize/Anti-seize shall b applied to all SS bolts and nuts.

2.2.4.4 Tapping Sleeve

Tapping sleeves on mains 4" to 12" in diameter will be all Stainless Steel Sleeves.

The All Stainless Steel Sleeve shall be fabricated from 304 Stainless Steel. They shall have a pas through bolt design and full circumferential gasket to provide 360° seal around the pipe. T tapping sleeve is to be fully passivated to return the stainless steel to its highest corrosio resistance stage.

Sleeves on mains 16" to 24" in diameter will be fabricated steel with O-ring seal, fusion bonde epoxy coated with 304 stainless steel nuts and bolts or M.J. ductile iron body. Sleeves on main larger than 24" will be handled on a case-by-case basis.

Tapping Sleeves for reinforced concrete mains will be handled on a case-by-case basis. T sleeves will have a fusion-bonded epoxy coating on the entire body and throat assembly. The straps and bolts shall be 18-8 Type 304 stainless steel.

The tapping valve must have centering ring and conform to Section 2.2.2.1 "Resilient Seat Gat Valves" in these Technical Provisions.

Tapping saddles to be placed on asbestos concrete (AC) pipe shall be an JCM A432 Stainless-Steel Sleeve or equal.

2.2.4.5 Line Stop Sleeve Specifications

Sizes 4" through 12"

Bolts, Nuts & Washers

Sleeve/Bodv

The entire Line Stop sleeve shall be fabricated from 304 Stainless Steel. They shall have pass-through bolt design and provide 360° seal around the pipe. The line stop sleeve is to fully passivated to return the stainless steel to its highest corrosion resistance stage. Outlet of sleeve will be full port, i.e. on 8" sleeve, outlet will be 8", on 6" sleeve, outlet will be 6".

18-8 Type 304 Stainless Steel, the bolts shall be track head type and furnished with permanent lubricated heavy-hex nuts and stainless washers.

Gasket

The full circumferential gasket shall be molded of synthetic rubber compounded for use wit water salt solutions, mild acids, bases and sewage. The gasket shall have a gridded surface, be full 1/4" thick with 304 stainless steel bridge plates molded flush into the gasket and have raised hydromechanical outlet seal to seal against line surges and water hammer.

Pressure Rating

The sleeves shall be rated at 150 PSI hydrostatic with a test pressure of 200 PSI on pipe with full circumferential break.

Line Stop Sleeves shall be a JCM A440 Line Stop Sleeve or approved equal.

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| ce, ess | Fire hydrants must be manufactured in accordance with AWWA specification must have bronze-to-bronze main seat threading surfaces. They will be traffic to | C502. Hydrants ype with drain | B.S.F. CONSULTANTS, INC. |
| e a | holes plugged at the factory. Fire hydrants will have 18-8 Type 304 Stainless Stee (bonnet, traffic flange and shoe). | bolts and nuts | CONSULTING - ENGINEERING - LAND SURVEYING |
| on est | Hydrants will have a minimum 5-1/4" main valve opening, with one 4-1/2" pum two 2-1/2" hose nozzles. Nozzles to have NST threads. Stem couplings are to stainless steel. The upper valve plate must be bronze. The hydrant shoe will b with fusion-bonded epoxy, 6 mil minimum. All hydrants will be painted at th Rustoleum high-performance epoxy 9100 system, non-lead, dry film thickness 5 #9143 Yellow. City crews will apply finish paint to each new fire hydrant after the paid the appropriate fees. | per nozzle, and be cast iron or e coated inside ne factory with to 8 mils, color Contractor has | 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 |
| es he he be ed be se yr. | Finish grade is to be established and the proper length hydrant is to be in Contractor prior to acceptance by the City. All nozzles will be a minimum of 18" a of 24" above finished grade. A 6" mechanical joint hydrant connection will be p hydrant valve-anchoring tee with integrally cast standard mechanical joint gland branch. The Contractor will not be allowed to install risers on hydrants. At final is determined that a fire hydrant is not at grade, the Contractor shall purchase a hydrant and install it under the direction of the Engineering Division. 2.2.6 SERVICE CONNECTIONS, 3/4"-2" All service connections will be single connections. Services that are 3/4" and 1" a annealed temper soft copper. All connections are to be of the flare type. 1-1/2" are to be of type. K drawn temper in straight lengths or annealed temper if fur | In the second se | SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 33659 No. 4151 |
| be he ef he | Absolutely no lead-based solder joints will be accepted. Any repairs of service flare-to-flare coupling. No compression fittings will be accepted. Taps in the p same nominal diameter as the service line. Service taps in PVC pipe will be shellcutter designed to cut PVC pipe, and the PVC plug will be removed. | lines will be by ipe will be the drilled with a | |
| ng | Brass goods furnished under this specification shall be new and unused. All fitting to ANSI/AWWA Standard C800, latest revision. | s shall conform | HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 |
| er •st | All brass components in contact with potable water must be made from either Alloys C89520 or C89833 with a maximum lead content of .25% by weight. Brass in ANSI/AWWA C800 Paragraph 4.1.2 are not approved. All service fittings shall suitable for contact with drinking water by an ANSI accredited organization in a ANSI/NSF Standard 61. All fittings shall be stamped or embossed with a mark or r that the product is manufactured from the low-lead alloy as specified above. | CDA/UNS Brass alloys not listed be certified as ccordance with name indicating | |
| | Brass saddles shall be made from CDA/UNS C83600 and are exempt from requirement. | the "no lead" | |
| on | 2.2.6.1 Saddles | | |
| eal nil | Saddles must be used for all connections to PVC, AC and D.I. pipe. Saddles must be "CC" threads as manufactured by Mueller Company , or Ford Meter Box Com sizes for these manufacturers are noted below (approved materials are also liste A"): | e all brass with pany. The pipe d in "Appendix | |
| ns | MUELLER : For ductile iron pipe sizes 4" to 12", for 3/4" and 1" services, the sing must be used. For 1-1/2" and 2" services, the BR 2 B double strap design must be | le strap design used. | |
| i3. eal ne | FORD: For pipe sizes 4" to 12", for 3/4" and 1" services, the style 101B sing must be used. For 1-1/2" and 2" services, the style 202B double strap design must pipe sizes 16" and larger, for 3/4", 1", 1-1/2," and 2" services, the style 202B double must be used. | ele strap design St be used. For Stap design | |
| | An approved equal may be used in lieu of any of the above-listed designs/models | | |
| nd be | 2.2.6.2 Curb Stops, 3/4" - 2" Curb stops 3/4" and 1" in size will be flare-by-meter coupling. Curb stops mus wings and a swivel meter nut. Curb stops that are 1-1/2" or 2" will be flare-b with locking wing or an approved equal. All curb stops shall be centered in the installed in a horizontal position. | t have locking y-meter flange meter box and | |
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SHEET

2.2.6.3 Corporation Stops, 3/4" - 2"

All corporation stops for water service ¼" thru 2" will be brass and have "CC" inlet threads and copper flare outlet. 2" Corporation stops for "jumpers" will be "CC"-by- F.I.P.

2.2.6.4 Meter Boxes

Meter boxes for traditional meters are to be plastic with an iron flipper lid with a full pin hinge. Meter boxes for radio-read meters must have a lid compatible with City's AMR meter antennae (4-1/2'' round). Service locations will be permanently cut and painted on concrete curb or the street with a blue "W" for potable water or a purple "R" for reclaimed. Reclaimed services will be located at the opposite lot corner from water services where practical or with five feet minimum separation.

For larger 1-1/2 and 2-inch meters, 17" x 30" meter boxes shall be used. For areas that are anticipated for high traffic areas, a traffic rate H-20-meter box shall be used. Reclaimed Water services will be set in purple meter boxes of materials per above. They are also required to have a 3" x 5" permanent plastic tag, secured to the curb stop with a nylon tie wrap, which will be supplied. Tags will be inscribed, "RECLAIMED WATER DO NOT

2.3 PROTECTION OF PROPERTY AND OBSTRUCTIONS

2.3.1 PROTECTION

Temporary supports and/or adequate protection and maintenance must be provided on all underground and surface structures encountered in the progress of the work. Structures that have been disturbed will be restored to a condition equal to their original state upon completion of the work.

2.3.2 OBSTRUCTIONS

All utility owners must be notified prior to beginning construction. Any known obstructions will be shown on the plans; however, Contractor is solely responsible for field verifying existing conditions. The utmost caution will be taken in all operations to avoid damage to existing obstructions whether or not shown on the plans. Damage to other utilities will be at the Contractor's expense.

If the Contractor encounters any unforeseen obstructions during construction, the Contractor shall immediately cease work in that area and notify the Engineer of Record (EOR). The EOR shall design and provide detailed drawings to correct the situation. The drawings shall be submitted to the Engineering Division for approval. After approval by the Engineering Division, a set of approved drawings will be given to the contractor and they may resume work.

2.3.3 EXISTING ASBESTOS CEMENT WATERMAINS

In areas where asbestos cement water mains are existing, water main relocations or replacements may be necessary. If new construction of facilities is over, under, or near asbestos cement water mains, it shall require that the asbestos cement water main be changed out to polyvinyl chloride pipe or ductile iron pipe. All asbestos cement pipe that is replaced shall be removed and disposed of by the contractor unless specifically directed in writing by the City to abandon in place. New pipe material shall depend upon the type and location of the facilities being constructed. The Developers Engineer shall design the replacement and submit it for the Engineering Division approval. The Developer is responsible for all design, materials, labor, equipment, testing, and costs for the replacement. Contractor shall remove and dispose of AC pipe in accordance with FAC Codes 62-204.800 and 62-257.

2.3.4 ABANDONMENT OF ASBESTOS CEMENT PIPE

Where asbestos cement water mains have been directed by the City to be abandoned in place they shall be filled with a sand/cement grout by the contractor. Grout shall be injected within the pipe sections to be abandoned where the ends of the sections shall be capped and or plugged. The grouting program shall consist of pumping sand-cement grout with suitable chemical additives at pressures necessary to fill the pipe sections to prevent the potential for future collapse. The rate of pumping shall not exceed six (6) cubic feet per minute. The pumping pressures shall be in the range of 100 to 150 psi.

The Contractor shall provide standpipes and/or additional means of visual inspections as required by the City to determine if adequate grout material has filled the entire pipe section(s).

2.4 TRENCH PREPARATION

2.4.1 EXCAVATION

A trench will be opened so that the pipe can be installed to the alignment and depth required. It will be excavated only so far in advance of pipe placement as necessary. The trench will be excavated to the depth required to provide a uniform and continuous bearing support for the pipe or undisturbed ground. Bell holes will be provided at each joint to permit jointing to be made and inspected properly.

During excavation, if ashes, cinders, muck or other organic material considered unsuitable is discovered at the bottom of the trench at sub-grade, unsuitable material will be removed and backfilled with approved material. This material will be compacted in layers to provide a uniform and continuous bearing characteristic of that area's soil condition. Where the bottom of the trench at sub-grade consists of unstable material to such a degree that it cannot be removed and replaced with an approved material to support the pipe properly, a suitable foundation must be constructed. Excavated material will be piled in such a manner that it will not endanger work or obstruct natural watercourses, sidewalks or driveways. Fire hydrants under pressure, valve boxes, or other utility controls will be left unobstructed and accessible at all times. Gutters will be kept clear or other satisfactory provisions will be made for street drainage.

2.4.2 SHORING AND BRACING

Open cut trenches must be sloped, shored or braced as required by all governing State law, municipal ordinances, OSHA Standards, and as may be necessary to protect life, property, or the work. Trench bracing may be removed after backfilling has been completed or has been brought up to such an elevation as to permit its safe removal. The use of a trenching box may be used in place of sheeting and bracing where appropriate. The Contractor is required to have a Competent Person designated and in charge at all times while workers are in the trench.

2.4.3 DE-WATERING

Excess water must not be allowed in the trench at any time. An adequate supply of well points, headers or pumps, all in first-class operating condition, may be used to remove the water. The use of gravel and pumps will also be an acceptable means of removing the water. The trench will be excavated no more than the available pumping facilities are capable of de-watering. Discharge from pumps will be accommodated in accordance with the St. Johns River Water Management District's requirements. The Contractor is responsible for obtaining all de-watering permits such as NPDES permit.

2.5 PIPE LINE CONSTRUCTION

2.5.1 GENERAL

All water mains, service lines, and appurtenances must be installed as specified on the approved plans and in accordance with the Standard Detail Sheet. Installation will conform to AWWA specification C600 except as modified herein.

of pipe shall be installed on the Transmission Main for the water service.

2.5.2 MATERIAL HANDLING

2.5.2.1 Precautions

Every precaution will be taken to prevent damage to pipe and piping materials during transportation and delivery to the work site. Under no condition will pipe be dropped, bumped, dragged or picked up by inserting forks into end of pipe. Pipe lifted by placing forks into pipe shall be removed from job site.

2.5.2.2 Damaged Materials

be rejected and removed from the site.

2.5.2.3 Storage

Pipe fittings and specials will be stored in a manner which will assure the protection of the material from damage and which will keep it clean.

2.5.3 INSPECTION OF MATERIALS

Materials delivered to the job site will be subject to inspection by the Engineering Division prior to installation. Contractor shall notify Inspections 24 hours in advance. All materials found to be defective or not meeting specifications during inspection or during the progress of the work will be rejected and removed from the job site without delay. All materials delivered to the job site will be in accordance with the materials specifications. Materials not inspected by the Engineering Division prior to installation will be uncovered by the Contractor at their expense to verify compliance with these specifications. The Contractor will furnish copies of the packing list(s) for materials upon demand.

2.5.4 PIPE PLACEMENT

The bottom of the trench will not be excavated below the specified grade. If undercutting occurs, the bottom of the trench will be brought up to the original grade with approved material and thoroughly compacted, as directed by the Engineering Division. Before placing pipe into the trench, the outside of the spigot and the inside of the bell will be wiped clean, dry, and free from oil and grease. Every precaution will be taken to prevent foreign material from entering the pipe. During placement operation, no debris, tools, clothing or other material will be placed in the pipe.

All mechanical joints will be made up in strict accordance with the manufacturer's specifications. Beveled ends will be removed from PVC pipe entering a mechanical joint. The bell will be carefully cleaned before the gasket is inserted. Gaskets must be evenly seated, the gland placed in position with the bolts, and evenly tightened. All slip joints will be made up in strict accordance with the manufacturer's specifications.

After placing a length of pipe in the trench, the spigot end will be centered in the bell, the pipe forced home, brought to correct alignment, and covered with an approved backfill material. Ductile iron pipe will be backfilled to the centerline of the pipe and compacted to ninety-five percent (95%) of standard Proctor T-99.

PVC pipe will be backfilled in accordance with the manufacture's recommendations for the laying conditions.

Pipe will be installed with 30" minimum cover. Maximum cover of 42" will be accepted. Cover depth will be determined from proposed finish grade as indicated on the plans. At times when pipe placement is not in progress, the open ends of pipe must be closed by a watertight plug or other approved means. This provision will apply during the lunch hour as well as overnight. If water is in the trench, the seal will remain in place until the trench is pumped completely dry.

All underground water main shall meet the horizontal and vertical separation requirements in FAC 62-555.314 as related to sanitary force main and gravity main, reclaim mains, and storm water gravity and force mains.

Pipe installed under swales shall be D.I. and have 3 feet minimum cover. D.I. pipe to be centered on swale. If more than one joint of pipe is necessary, restrained joint pipe is required. See "Swale Crossing" detail and definitions.

Pipe installed under canal or drainage ditch shall conform to all FDEP requirements. Pipe shall be restrained joint D.I. pipe with gate valves on both sides of canal/ditch. D.I. pipe shall have 5 feet minimum cover with a concrete cap. See "Canal or Drainage Ditch Crossing" detail and definitions.

2.5.5 LOCATING WIRE

A UF 14 Copper Wire that allows for the location of the pipe using an induced current line locator will be installed on all potable water, reclaimed water, and wastewater mains. The wire must be placed on the top of the pipe and taped approximately every ten feet. A run of wire must run from the main to each hydrant. Each fire hydrant must have one wrap of the wire around the barrel located at final grade.

Wire color shall be blue for water, green for wastewater, and purple for reclaimed.

A run of wire will also be brought up in each valve box. The wire will have 18 inches of excess length. Wire is to be connected together using an underground wire nut with a **silicone-based** sealant

The CCS wire shall meet the following requirements. HDPE Insulation of 30 mils, #14 AWG conductor, maximum Ohms resistance of 8.28 ohms per 1000 ft., breaking load 256 lbs.

When directional drilling is used, one continuous #10 CCS extra high strength locator wire shall be installed. The CCS wire shall meet the following requirements. HDPE Insulation of 45 mils, #10 AWG conductor, maximum Ohms resistance of 0.999 ohms per 1000 ft., breaking load 1150 lbs.

2.5.6 SERVICE LINE LOCATION

Service lines will be located at alternating lot lines outside the sidewalk within two feet of the right-of-way line as shown on approved plans or in a grassed area behind the curb if located in other than a subdivision.

Reclaimed service line is to be located adjacent to sewer cleanouts.

2.5.7 BACKFILLED MATERIAL AND INSPECTION

Domestic water service can only come from a Distribution main. When water service is requested and the only water main available is a Transmission main, a large tap and section

The minimum size tap on a Transmission Main shall be a six (6) inch.

If in the process of transportation, unloading or handling, any pipe or fitting is damaged, it will

All backfilling material will be free from cinders, ashes, refuse, vegetable or organic material, boulders, rocks, stones, or other material which is considered unsuitable. When backfill

material is not specified on the plans, backfilling with the excavated material may be acceptable provided that such material is suitable for backfilling. Pipe should be backfilled as soon as possible to minimize the length of open trench. Pipe joints, valves, fittings, and thrust blocks will be left uncovered until inspection by the Engineering Division has been completed. 2.5.8 VALVES AND FITTINGS

All valves and fittings will be set and joined to the pipe in the proper location as shown on the plans. Valves should be installed outside of the pavement where practical. A roadway valve box will be provided for every valve. This valve box must not transmit shock or stress to the valve. Valve will have alignment ring installed and valve box centered and plumb over the wrench nut of the valve. The box cover is to be flush with the surface of the finished pavement or grade level as specified in the plans. A 24"-square concrete pad 4" in thickness will be poured around the valve box when it is located outside of pavement. A bronze or stainless-steel disc will be cast into the pad for all valves 12" or larger. Valve nomenclature to be stamped into the disc will include the valve size, type, manufacturer's initials, number of turns, and direction to open the valve. (Example: 12" G.V. U.S.P. 20 c.c.w.)

All valves will be located within two feet of the tee, see detail "Gate Valve and Fitting."

When solid sleeves or couplings are used to join/tie-in pipelines, a Spacer Piece shall be installed if there is a gap in the pipeline.

2.5.9 FIRE HYDRANTS

All fire hydrants (hydrants) will be located as shown on the plans and marked on the pavement with a blue reflector. On unpaved streets, a blue reflector will be affixed to a post and placed as close to the edge of the road as feasible to be easily visible. The hydrants will be located in such a manner as to provide complete accessibility and in a manner so that the possibility of damage from vehicles or injury to pedestrians will be minimized. All hydrants must stand plumb and the bury line of the hydrant at the finished grade. Hydrants installed in State highway rights-of-way will be placed in accordance with any F.D.O.T. requirements. Contractors shall not turn or add risers to hydrants. All hydrants will be connected to the main in the manner shown on the Standard Detail Sheet. If the installation of the hydrant requires the hydrant to be greater than 40 ft. away from the fire hydrant valve, an additional valve shall be installed. If the fire hydrant valve ends up in asphalt of a major road (not subdivision) an additional hydrant valve regardless of distance shall be installed.

2.5.10 RESTRAINED PIPE JOINTS

The Engineer of Record shall provide a restrained joint detail on drawings submitted to the City for approval. Restraining is to apply to all new fittings installed as part of the job, including tapping saddles.

2.5.11 THRUST BLOCKS AND COLLARS

Restrained joint systems are the preferred method. Thrust blocks may only be used with the City's prior approval at bends, fire hydrants, and as specified on the plans, in accordance with the Standard Detail Sheet. Metal harnesses, tie rods, or clamps of adequate strength to prevent movement may be installed at locations where thrust blocks are not practical. Rods and clamps will be stainless steel. A 20-foot length of ductile iron pipe will be installed at all main endings and a concrete thrust collar will be poured around the pipe at a distance of 10 feet from the end of the joint. In lieu of concrete thrust collar, restrained pipe upstream of the proposed concrete thrust collar may be used.

2.5.12 JACK AND BORE, PIPE INSTALLED IN CASINGS

Pipe to be installed under pavement where open trenching is not permitted will be installed through a steel casing that has been jacked and bored. The casing pipe will be six to eight inches larger than the outside diameter of the bells on the Ductile Iron pipe. The Engineer of Record will design the casing and bore to meet FDOT or FECRR requirements.

Ductile Iron pipe of the appropriate Class will be installed in the casing. Water mains must be pushed or pulled through the casing on stainless steel casing spacers with polyethylene skids attached to the pipe with stainless steel straps. The stainless-steel casing spacers with polyethylene skids will be placed in accordance with manufacturer's recommendations. Casing spacers must be manufactured by Cascade or an approved equal. Restrained joints are required on mains installed inside casings.

JACK AND BORE

J&B installed under FDOT roadways shall conform to the latest FDOT Road and Bridge Construction design standards. J&B installed under FECRR shall conform to FECRR requirements.

Only DIP and Fusible PVC may be horizontal directional drilled (HDD) under pavement or surface waterway crossings. The HDD pipe shall only extend to 10 feet on each side of the crossing. Then the piping will change to the standard piping material.

HDD installed under FDOT roadways shall conform to the latest FDOT Road and Bridge Construction design standards.

ENGINEERING PROCEDURE HORIZONTAL DIRECTIONAL DRILLS

PRECONSTRUCTION CONFERENCE

2.5.13 HORIZONTAL DIRECTIONAL DRILLING

| A pre | preconstruction conference will be required. The preferred attendees for the construction shall be but not limited to: |
|-------|---|
| | The directional bore contractor (preferably the Field Superintendent) The |
| | permitting agency |
| | Engineer of Record |
| | City Engineering Division Representative |

Inspector for the project

HDD CONTRACTOR

- Approval required prior to the HDD, the HDD contractor shall submit a bore plan (see sample drawing in "Appendix B") to the Engineering Division for approval. The bore plan shall be a scaled drawing or computer generated drawing showing the following information but not limited to: (see drawing "Typical Bore Plan")
- The entrance and exit location
- Profile of the bored pipe
- All utilities including their depths and clearances from reamer Width of the right of way
- Pavement width

Length of the bore

The bore plan shall be signed by the responsible person in charge of the bore.

2. The HDD contractor shall follow the minimum clearances as shown below from the bottom of the water main to the top of the reamer:

Water mains 12" and greater minimum clearance is 18" Water

- mains 10" and less minimum clearance is 12"
- The HDD contractor will be responsible for obtaining locates for all utilities in accordance with Chapter 556 of the Florida Statutes.
- The HDD contractor shall notify the City of Cocoa Inspection Division 48 hours in advance of the bore and notify the appropriate permitting agency per the conditions of the

ENGINEERING INSPECTOR

- An approved copy of the bore plan will be given to Engineering Inspection Division.
- The Inspector for the project will have a copy of the bore plan at the project site. 3. Prior to the HDD the Inspector shall verify that the materials at the project site for the directional bore are in accordance with the City of Cocoa's latest technical provisions and
- standard details. 4. The Inspector shall verify the following prior to the commencement of the HDD:
- Verify that the HDD contractor has obtained his/her utility locates; Verify that all utilities have been visually spotted by the HDD contractor;
- Verify that the permitting agency has been notified of the HDD; and d. Witness the calibration of the sonde. 5. The Inspector shall remain at the project site until completion of the HDD. Any
- discrepancies shall be immediately reported to the Engineering Division. Once the corrective action is determined, the proper authority will be notified.

COMPLETION OF THE BORE

A bore log shall be submitted to the Engineering Division after completion of the bore.

2.5.14 BLOWOFFS

Flushing blow-offs are to be installed and constructed as shown on the Standard Detail Sheet. Blow-off materials include 2" brass for nipples, brass threaded fittings, 2" brass angle wheel valve, and plastic meter box (purple for reclaimed). The plastic meter box is to be installed at grade over the wheel valve. The angle wheel valve will be within six inches of finished grade and will be plugged with a brass plug. 4" blow-offs will be required on both potable water and reclaimed water mains 12" and larger and must be constructed as shown on the Standard Detail Sheet. A reclaimed tag will be installed on reclaimed main blow-offs in a reclaimed meter box.

Brass used in potable water shall meet the low lead requirements as set forth in Section 2.1.6, "Service Connections".

2.6 TIE-INS TO EXISTING SYSTEMS

2.6.1 GENERAL

The Contractor is not to operate any valve or remove any thrust block from City-owned mains except under direct supervision of an Inspector of the Engineering Division. The Contractor may need a post restraining the existing piping for the tie-in as required by the Engineering Division. All Contractors must follow the procedures listed below for connecting new mains to existing water systems.

2.6.1.1 Mains 8" and smaller

Existing tie-in valves will be operated and pressure tested to verify water tightness prior to the proposed tie-in. Existing system valves that are not water tight, shall have a new valve nstalled immediately adjacent (within 2') to the existing valve. The Contractor will provide 2" tap on the new main and a 2" tap on the existing main at the tie-in valve. A 2" jumper equipped with a City supplied meter and contractor supplied backflow preventer (double check) will be installed. The jumper will be utilized for filling the main, flushing the main, providing water for bacteriological sampling, and maintaining pressure in the main after a successful bacteriological test. The proposed tie-in valve is not to be operated and the jumper is not to be removed until clearance has been obtained from FDEP and the City. The Engineer of Record will be required to provide an executed FDEP certificate of completion prior to clearance. After clearance, the tie- in valve will be opened, the jumper removed, and the main thoroughly flushed under the supervision of the Inspector. All other existing valves closed as part of the job will be opened by the contractor under the supervision of Engineering Division.

2.6.1.2 Mains 10" and Larger

The same procedure as noted for mains 8" and smaller will be used for mains 10" and larger except that the jumper will be utilized only for filling the main, providing water for bacteriological sampling, and maintaining pressure in the main after a successful bacteriological test. The tie-in valve can be opened for flushing and during chlorination only under the supervision of the Engineering Inspection Division. The tie-in valve is not to be operated and the jumper is not to be removed until clearance has been obtained from FDEF and the City. After clearance, the tie- in valve will be opened, the jumper removed, and the main thoroughly flushed under the supervision of the Inspector. All other existing valves closed as part of the job will be opened by the contractor under the supervision of the Inspector.

2.7 TESTING

2.7.1 GENERAL

All newly installed pipe and services that have been backfilled must be tested in accordance with AWWA specification C651

2.7.2 JUMPER METER ASSEMBLY

All filling, and flushing, must be accomplished through a jumper meter assembly. The jumper meter assembly shall consist of a meter (provided by the City, paid for by the Developer/Contractor), and a double check backflow preventer and galvanized piping (provided by the Contractor). The jumper meter assembly shall be installed by the Contractor under the direct supervision of the Engineering Division. After installation, the Contractor shall have the backflow preventer certified by a backflow technician, and a copy of the test report shall be provided to the Engineering Division.

- 1. A temporary jumper connection is required at ALL connections between existing active water mains and proposed new water main improvements, per the City of Cocoa Utilities Handbook. The only exception is the installation of a new fire hydrant involving a tap and using an anchoring/swivel nipple. In this case, all fittings and fire hydrant SHALL be swabbed with a 100 ppm chlorine solution prior to installation.
- 2. The details for filling any water main from existing active water mains and for flushing of new mains up to 8" diameter (2.5 FPS minimum velocity) and for pulling bacteriological samples from any new water main of any size can be found in Section 2.7.3-Flushing and Swabbing. The jumper connection shall be maintained until after filling, flushing, testing, and disinfection of the new main has been successfully completed and clearance for use from the Florida Department of Environmental

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| rotection (FDEP) and other pertinent agencie onnection shall also be used to maintain pre isinfection and until the FDEP clearance lette nd/or restraints shall be provided temporari | es has been received. The jumper essure in the new mains all the time after er is obtained. Adequate thrust blocking ilv. as required. Pipe and fittings used for | | | B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - |
| onnecting the new pipe to the existing pipe s ccordance with AWWA C651. The tapping sl apped shall be disinfected by spraying or swa | shall be disinfected prior to installation ir eeve and the exterior of the main to be abbing per Section II of AWWA C561. | 1 | | LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 |
| Flushing of 10" diameter and larger water m nder the direct supervision of the Engineerir otified in writing 48 hours prior to the flushi | nains may be done through the tie-in valv ng Division. The Engineering Division will ng of said mains. | e, be | | PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 |
| The following procedures shall be followed: A. The existing tie-in valves shall be operat the Engineering Division or Engineer to v tie-in. Valves which are not watertight sh immediately adjacent to the leaking valve B. The temporary jumper connection shall connection shall be used to fill the new v bacteriological sampling of the new main Flushing shall not be attempted during peak of All downstream valves in the new system mu | ted and pressure tested in the presence of verify water tightness prior to the proposi- nall be replaced or a new valve installed re. I be constructed as detailed. The jumper water main and for providing water for in as required by the FDEP permit. demand hours of the existing water mair ust be open prior to opening the tie-in val | f ed I. ve. | | SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 33659 No. 4151 |
| rovide for and monitor the pressure at the t ist not drop below 35 psi. Fie-in valve shall be opened a few turns only, | tie-in point, the pressure in the existing n , ensuring a pressure drop across the valv | ve is | | |
| vays greater than 10 psi. The contractor shall provide documentation of ackflow prevention device has been tested a | demonstrating that the double check | of | | HASSAN A. KAMAL, P.E. STATE OF ELORIDA, No. 41951 |
| Except as required to flush lines of greater the | qualified backflow prevention technician | | 1 | STATE OF FLORIDA, NO. 41931 |
| emain closed. The tie-in valve shall remain cl or use by FDEP and all other pertinent agenc Jpon receipt of clearance for use from FDEP ontractor shall remove the jumper connection | losed until the new system has been clea cies. and all other pertinent agencies, the on. The corporation stops are to be close | red | | |
| nd plugged with 2" brass plugs. All installation and maintenance of the temp ackflow prevention device fittings, valve, etc | orary jumper connection and associated c., shall be the responsibility of the | | | |
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2.7.3 FLUSHING AND SWABBING

The City will provide an adequate volume of water for the filling, flushing, and testing of mains. The Contractor will notify the Engineering Division prior to flushing or filling mains. The pressure in the City's system will be monitored during the flushing; at no time should the pressure in the City's system be allowed to drop below 35 psi. Water used during flushing will be billed to the Contractor.

The City of Cocoa Engineering Division requires all new mains regardless of size or material to be pigged/swabbed. In an effort to make sure all footages of a pipeline are pigged, the following procedures are to be used as a guide and in no way to be construed as means and methods.

The following terminology may be used in the discussion or operation of the

pigging procedure. Pigs shall be manufactured of a 2 pounds per cubic foot

density open cell polyurethane foam

body (swab) complete with rear polyurethane drive seal

Pig launching station may be a "wye", "tee", or simply inserting the pig at the very beginning of the pipeline. The beginning of the pipeline is defined at the jumper assembly location.

Pig retrieval point or cannon is a "wye", "tee" or open end of pipe at which point the pig will exit the pipeline.

The pipeline will be filled through the jumper assembly the day before of the pigging operation.

The pig will be advanced through the pipeline at a rate of 2 feet per second, 80 gpm for 4"; 180 gpm for 6"; 320 gpm for 8". Flow rates and jumper assemblies for mains 10" and larger will be determined by the Engineer of Record and approved by the City of Cocoa Engineering Division.

The pig retrieval point or cannon will project at least one foot above the surrounding grade. The water from the pig retrieval station discharge and its location to discharge shall be approved by the Engineering Division. The contractor will be responsible for following the National Pollutant Discharge Elimination System (NPDES) requirements to remove chlorine from discharge as well as protect retrieval area from erosion. Retrieval cannons will not be left in place. After pigging and flushing are complete, the cannon will be removed and capped below ground in accordance with Engineer of Record details or City of Cocoa Standard Details.

The contractor may insert the pig into the first section of pipe between the isolation valve and the downstream point of jumper assembly. By inserting the pig between the isolation valve and the downstream jumper assembly point it will allow the pipeline to be filled without moving the pig down the pipeline. If the pig is moved during filling operation another pig will be inserted into the pipeline. The isolation valve may be cracked open for a few seconds under the direction of the Engineering Division to move the pig past the jumper assembly downstream point so the jumper assembly can advance the pig through the pipeline.

When the pig exits the pipeline, the flushing will continue until the water is clear. A simple way to determine if water is running clear is to capture some water in a WHITE cup. If water is clear and no particles in cup then flushing is complete; if not, flushing will continue until water is clear.

2.7.4 HYDROSTATIC TEST

A blow-off or fire hydrant will be installed at the end of the pipeline under test. The line being tested will be slowly filled with water to the specified test pressure. Before applying the specified test pressure, all air will be expelled from the test section including service connections. If fire hydrants or blow-offs are not available at high elevations, taps at points of highest elevation will be made to facilitate air removal and testing. When testing is complete, the service lines installed for air removal must be removed.

The line must hold the 150-psi test pressure for a two-hour test period and must be performed under the direct supervision of the Engineering Division. Sufficient human resources are to be employed to ensure inspection. If the line fails to meet the test, it will be repaired and re-tested until the test requirements are satisfied. Line pressure will be maintained to within 5 psi of the test pressure at all times.

2.7.5 LEAKAGE TEST

A leakage test at 150 psi will be performed on all newly installed sections of pipe in accordance with AWWA C600 or C605 after installation of all service connections. Any leakage observed must be less than the following per thousand feet of pipe:

L = testing allowance (makeup water), in gallons per hour

- S = length of pipe in feet
- D = nominal diameter of pipe, in inches P = average test pressure during the hydrostatic test, in pounds per square inch (gauge). P has the square root taken.

On small main extensions where the allowable leakage loss cannot be reasonable measured (.25 gallons or less), NO LOSS OF PRESSURE shall be allowed.

2.8 DISINFECTION AND BACTERIOLOGICAL TESTING

2.8.1 GENERAL

The Contractor must flush potable mains and arrange for complete disinfection by chlorination in coordination with the Engineering Division. Work will conform to applicable provisions of AWWA specification C651-14, "Disinfecting Water Mains". Water with a chlorine concentration of 50 ppm will be evenly distributed throughout the pipe system and allowed to remain in the pipe for twenty-four hours. Transmission mains may be chlorinated using the "slug method". If the slug method is used, a detailed written procedure shall be submitted for approval. The main shall be dechlorinated to zero ppm chlorine before any flushing is performed. The method for dechlorination shall be approved by the Engineer of Record. After flushing, the water shall remain in the pipe for 24 hours before sampling. Service connections and tie-ins made before testing must be disinfected in accordance with AWWA specification C651. Samples will be taken by an Engineering Division approved laboratory. Two consecutive day samples are required for potable water mains. Water mains shall not be flushed between samples. The Contractor will be responsible for ALL bacteriological testing fees. Sample points are determined by the Engineer of Record and approved by FDEP. If samples taken do not demonstrate satisfactory results, re- chlorination and retesting of all sample locations is required at the Contractors expense.

CONTRACTORS WORKING ON EXISTING MAINS

When existing water mains are taken out of service by contractors, and water service to existing customers is interrupted causing a precautionary boil water notice (PBWN), the water main will be taken out of service on Monday or Tuesday. If for some reason the water main cannot be taken out of service on Monday or Tuesday, then the contractor at their expense shall have the laboratory perform bacteriological testing after normal working hours. This procedure is to lessen the time water customers are under a PBWN.

2.9.1 GENERAL

- Tap Being PerformedParties Allowed to Perform the TapTaps 2" and smaller Approved tapping and line stop contractor
- Contractor approved to tap mains solely for their own project • Contractor must perform 5 successful taps under the supervision of the inspection
- team and demonstrate possession of proper tapping equipmentTaps 2"-16" Approved tapping and line stop contractorTaps 16" and greater Approved

2.9 WET TAP CONNECTIONS TO EXISTING SYSTEM

tapping and line stop contractor

• Each tap requires independent review and approval • The tap must be performed under direct supervision of the

engineering divisionTaps on concrete transmission mains Contractor approved for taps on City of Cocoa transmission mains

• Tapping plan must be submitted by the contractor prior to the tap On transmission mains, the approved tapping and line stop contractor will install the tapping saddle and valve. For all connections from 4"-12" the contractor may install tapping saddles under direct supervision of the Engineering Division. For all water main connections, the Contractor must obtain all required permits, provide a dry pit area, provide pit preparation including shoring and bracing, provide maintenance of traffic, provide all right-of- way restoration, and notify all utilities prior to construction. Connections must be completed under direct supervision of the Engineering Division. The list of approved contractors may be found on pg. 158.

Tapping saddles and valves supplied by the Contractor will be inspected by the Engineering Division prior to installation. The installed tapping saddle and valve must be tested with water at 100 psi for 15 minutes prior to tapping to ensure a watertight installation. Saddles installed on concrete pressure pipe will be tested 10% over line pressure. The pressure test will be performed by the Contractor and supervised by the Engineering Division. After the pressure test of the saddle has been completed, an Approved Tapping Contractor can tap the main.

2.9.2 TAPPING AND LINESTOP PROCEDURES

ALL TAPS or LINESTOPS on City of Cocoa potable, reclaimed, and wastewater mains will be performed by an Approved Tapping Contractor.*

Absolutely NO taps or linestops will be performed on Friday or any day preceding a holiday.

Approved Contractors must disinfect tapping machine with AWWA approved disinfectant. This will be witnessed by the Inspector.

The Contractor's tapping or linestop machines will be in good working order with appropriate bits and shell cutters for the type of pipe being worked on (i.e. shellcutter for PVC).**

When taps or linestops are installed on Transmission Mains (> 12"), a preconstruction meeting will be held with the tapping contractor prior to ANY work being performed. The meeting may be held at the job site.

Taps and linestops on the Utilities concrete pressure mains will be a two (2) day process and will require a pre-construction meeting. Day one the saddle is installed and grouted, Day two tighten straps, cut pre-stressing wires, install throat and valve. Pressure test on saddle is 10% over line pressure for 30 minutes. After successfully completing pressure test, tap can be made.

Toggle bolts will be required for PCCP taps to assure the entire coupon remains intact. The coupon must be provided to the City.

ALL excavations must conform to current OSHA Trench Safety Act.

The City of Cocoa reserves the right to remove any contractor from the approved list for any work considered substandard.

* Tap or linestop to include: Material, installation, labor, drilling, and testing ** Bit, boring bar, and adaptor

2.10 FINAL CLEAN-UP AND ACCEPTANCE

2.10.1 GENERAL

Upon completion of the work and before acceptance by the Engineering Division, the Contractor will meet all permit conditions, remove all debris, and complete sodding, sprigging, or seeding if required by the plans. The Contractor will leave all areas affected by operations in a neat and presentable condition.

Acceptance of completed work by the City will be contingent on the following work items completed to the satisfaction of the Engineering Division.

Pressure Test

Bacteriological Testing

Restoration

Payment of fees

Approved As-Builts

Easements Bill of Sale

Fire line DCDA certification, as needed

Final Inspection

2.11 FIRE SERVICE

2.11.1 GENERAL

All Fire Lines shall be installed by a licensed Fire Line Contractor in accordance with Florida Statute Chapter 633 and Rule Chapter: 69A-46. Where wet pipe sprinkler service is used, an RPDA or DCDA will be installed in accordance with the "Backflow Prevention and Cross- Connection Control" Section of the Utilities Handbook and as described in the "City of Cocoa Cross Connection Control Program Manual".

Fire line backflow preventer assemblies shall be installed in non-traffic areas. Four to six bollards may be required.

2.12 CONNECTION OF BUILDINGS OVER FOUR FLOORS

2.12.1 GENERAL

Connection of domestic water supply systems serving buildings over four floors in height to the City's water distribution system will be subject to the following

requirements:

A fixture unit analysis will be performed by the Owner's engineer to determine peak domestic flow requirements. This analysis is to be provided to the Engineering Division.

A water meter and a reduced pressure backflow preventer, sized in accordance with the domestic flow requirements, will be installed above ground at the developer's expense.

Upon written request, the City will provide the site engineer with the minimum expected system pressure. The site engineer will be responsible for providing this information to the architect and building owner. Means for providing an adequate supply of domestic water and fire protection to all parts of the building during periods of minimum pressure will be the responsibility of the building Architect or Engineer of Record.

Repair costs for damage to the water meter caused by flows exceeding its rated capacity will be charged to the customer.

2.13 BACKFLOW PREVENTERS

2.13.1 GENERAL

All connections to the City of Cocoa potable water system shall contain a backflow preventer assembly per the Standard Details in "Appendix B." Backflow preventer requirements for each service type are described in the "City of Cocoa Cross Connection Control Program Manual" and are summarized in Paragraph 2.1.3, "Backflow Preventers" and "Appendix A" of this document.

2.14 RECORD DRAWINGS

2.14.1 GENERAL

Record drawings are required for all systems to be accepted by the Engineering Division. Record drawings will be prepared by a surveyor or an engineer registered in the State of Florida and will contain the following information:

- Location of all valves, service lines, fittings, and fire hydrants using at least two ties to permanent points (manholes, curbs, or storm water inlets). An acceptable station and offset system may be used for service lines and fittings only.
- Location of mains from property easement lines or edge of pavement at intervals of 300 feet.
- Elevations to the top of the water line at intervals of 300 feet and at all drainage and sewer main crossings. Benchmark to be shown on record drawings.
- Separation between reclaimed water or force mains and water mains, if they are installed within 10 feet of water mains.
- Water main material and distance of mains from buildings or structures within 20 feet of the water main.
- Distance from hydrant to hydrant valve.
- Pertinent easement information.
- A minimum of two (2) northings and eastings geographic coordinates.
- Certification by the surveyor or Engineer of Record accepting responsibility for accuracy of information supplied on the record drawings and a statement certifying that all mains are within easements and/or public right-of-way. The name "City of Cocoa" must appear on all record drawings survey information.

Record drawings will be drawn at an engineering scale that is legible and readable as determined by City staff. Areas requiring additional detail may be enlarged as necessary. Right-of-way, easements, and lot lines will be accurately shown. After the surveyor or engineer has certified the locations, the engineer will certify on DEP Form 62-555.900(9) that the system depicted on the record drawing was constructed in substantial conformance with approved plans and will function as intended. Lot, block numbers, and street names will be included. Provide two (2) sets of signed and sealed record drawings and one (1) digital file including all reference files in .DWG format (AutoCAD 2013 or higher).

| CITY OF COMO CI BI UTIL | <i>TY OF COCOA</i> revard County, Florida JTIES DEPARTMENT |
|-------------------------------|--|
| WAT TECHNICAI | TER PROVISIONS |
| TECHNICAL | |
| DRAWN BY: | SCALE: |
| CHECKED BY: | DATE: APRIL 2020 |
| DRAWING No. : | SHEET: 3 OF 3 |
| ACAD NAME: | |

B.S.E. CONSULTANTS, INC **CONSULTING - ENGINEERING** LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 33659 No. 4151 HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 CITY COMMENTS 08/19/20 CITY COMMENTS 08/10/2020 08/13/20 CITY COMMENTS 07/24/2020 07/31/2 DATE: 07/13/20 DESIGN/DRAWN: SMG/RMB PROJECT TITLE ADAMSON CREEK PHASE ONE-C SHEET TITLE CITY OF COCOA WATER **TECHNICAL** PROVISIONS PROJECT NO. 11453.02 DRAWING NO. 1145302 400 027

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SHEET

| IAINTENANCE PLAN | GENERAL CONSTRUCTION - SEQUENCING PLAN | |
|---|--|--|
| NTENANCE PLAN IS GENERAL IN NATURE AND IS INTENDED TO E FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTORS COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES PROVED PLANS AND PERMITS. | THE FOLLOWING CONSTRUCTION SEQUENCING IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A GUIDELINE FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES STANDARDS AND APPROVED PLANS AND PERMITS. | S |
| OL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION | OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS. FLAG THE WORK LIMITS OF CONSTRUCTION AND IDENTIFY AREAS NOT TO BE DISTURDED. | |
| 72" RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY REPAIRS WILL BE RECORDED AND MADE IMMEDIATELY TO ICES AS DESIGNED. | HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. WEEKLY REVIEWS OF EROSION, SEDIMENT, AND STORM WATER CONTROL S WILL BE CONDUCTED. REVIEWS WILL ALSO BE CONDUCTED WITH IN CONTROL SWILL AND STORM WATER | B.S.E. CONSULTANTS. INC. |
| WILL BE CLOSELY MONITORED AND REMOVED FROM INLET S TO ENSURE PROPER MANAGEMENT AND STORAGE CAPACITIES. DEVICES SHALL BE CLEANED OR REPLACED WHEN THE SEDIMENT R WORKS EFFECTIVELY AS DESIGNED. | 4. INSTALL SEDIMENT CONTROLS AS THE FIRST CONSTRUCTION ACTIVITY. | CONSULTING - ENGINEERING - LAND SURVEYING |
| ROLLING SILT FENCE SHALL BE MAINTAINED AND/OR REPLACED IAINTAIN A BARRIER. | INSTALL STORM DRAIN WITH STABILIZED INLET PROTECTION AT THE CONSTRUCTION ENTRANCE/EXIT. INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT. | 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 |
| SHALL BE RESEEDED AS NECESSARY, AND MULCHED ACCORDING IN THE VEGETATIVE PLAN TO MAINTAIN A VEGETATIVE COVER, ENT EROSION TO OFFSITE AREAS. | INSTALL TEMPORART STABILIZED CONSTRUCTION ENTRANCE/EXIT. COMPLETE SITE CLEARING EXCEPT FOR AREAS DESIGNATED NOT TO BE DISTURBED. ROUGH GRADE SITE STOCKPILE TOPSOIL CONSTRUCT WATERWAYS INISTALL | BUSINESS AUTHORIZATION: LB0004905 BUSINESS AUTHORIZATION: LB0004905 |
| ADDITIONAL WORKERS WILL BE INFORMED OF THE PLAN DETAILS ND MAINTENANCE OF PLAN FEATURES. | CULVERTS AND OUTLET PROTECTION (INSTALL SEDIMENT CONTROLS AND SILT FENCING AS NEEDED). BARE AREAS OF EXPOSED LAND SHALL BE MULCHED AND SEEDED ONCE GRADING HAS BEEN COMPLETED | SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 33659 No. 4151 |
| AS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE OVER, THEREBY REDUCING EROSION POTENTIAL. | FINISH THE SLOPES AROUND BUILDING DIRT PADS AS SOON AS ROUGH GRADING IS COMPLETE. | |
| TATION IS LOST WILL BE RESTABILIZED AND MAINTAINED AS FORE PROPER GROUND COVER. | COMPLETE FINAL GRADING FOR ROADS AND STABILIZE WITH APPROVED MATERIAL. COMPLETE FINAL GRADING OF GROUNDS, TOPSOIL CRITICAL AREAS, AND PERMANENTLY VEGETATE, LANDSCAPE, AND MULCH. | |
| ITE INFORMATION | ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND FOLLOWING 1/2" RAINFALL EVENTS. NEEDED REPAIRS WILL BE RECORDED WITHIN 24 HOURS, AND CORRECTED IMMEDIATELY. | |
| ELOPMENT WITH ASSOCIATED DRAINAGE AND UTILITIES | 13. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS. | |
| 32.55 ACRES | | |
| <u>SURFACE WATERS AND WETLANDS:</u> WETLAND | | HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 |
| SINGER SAND, EAU GALLIE SAND, MALABAR SAND, DA SAND, TERRA CEIA MUCK .UTION PREVENTION MEASURES & CONTROLS: | | |
| TY OF CONTROLS PROPOSED FOR THIS SITE. SOME CONTROLS ARE DL. THESE INCLUDE TEMPORARY SEDIMENT BARRIERS AND SILT FEN COVERING THE SOIL WITH PAVEMENT OR VEGETATION. | INTENDED TO FUNCTION TEMPORARILY AND WILL BE USED AS NEEDED FOR CES. FOR MOST DISTURBED AREAS, PERMANENT STABILIZATION WILL BE | |
| : DIL STABILIZATION IS TO PREVENT SOIL FROM LEAVING THE SITE. IN USED AT THIS PROJECT FOR STABILIZATION AFTER CONSTRUCTION | THE NATURAL CONDITION, SOIL IS STABILIZED BY NATIVE VEGETATION. THE PRIMARY WILL BE TO PROVIDE PROTECTIVE TURF GRASS OR PAVEMENT. | |
| ROVIDED BY AN UNOBSTRUCTED ALL WEATHER DRIVING SURFACE (AND SHALL BE MAINTAINED DURING CONSTRUCTION (SEE FIGURE 2) UM REQUIREMENTS. DEPENDING UPON THE CONTRACTORS OPERATION | CAPABLE OF SUPPORTING THE LOADS IMPOSED BY RESPONDING APPARATUS OF NOT . THE LOCATION OF EROSION CONTROL FEATURES SHOWN ON THIS PLAN FIONS, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN | |
| CUSION CONTROL FACILITIES NEEDED TO CONTROL EROSION OR THE | DISCHARGE OF TURBIDITY INTO DOWNSTREAM WATERS OR ADJACENT PROPERTY. | |
| ENGINEERS CERTIFICATION ALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM | CORPORATE OFFICERS CERTIFICATION "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM | |
| THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND MATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR MATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY | DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY | |
| EF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE ND IMPRISONMENT FOR KNOWING VIOLATIONS." | KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS." NAME: | |
| President/Vice President | TITLE: COMPANY NAME COMPANY ADDRESS: | |
| #: | COMPANY PHONE #: PROJECT SITE DESCRIPTION: | |
| FICATION: | SIGNATURE: DATE OF CERTIFICATION: | |
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| | | 200 0 100 200 |
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| | | (IN FEET) |
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| | INER OF THE | |
| | DOUBLE ROW SILT FENCE ALONG EXISTING POND (TYP) | A CITY COMMENTS |
| | | A CITY COMMENTS 08/19/2 A CITY COMMENTS 08/13/2 A CITY COMMENTS 07/24/2020 |
| | 5' WIDE RECREATIONAL | DATE: 07/13/20 DESIGN/DRAWN: SMG/RME |
| | WETLAND BUFFER AREA | PROJECT TITLE |
| III I< | > > > > > > DOUBLE ROW > > <t< td=""><td>ADAMSON CREEK</td></t<> | ADAMSON CREEK |
| , , , , , , , , , , , , , , , , , , , | . . <td>PHASE ONE-C</td> | PHASE ONE-C |
| • • <td>* *<td></td></td> | * * <td></td> | |
| - | - - <td>SHEET TITLE</td> | SHEET TITLE |
| · • • • • • • • • • • • • • • • • • • • | | |
| NAL | | POLLUTION |
| ATION | | |
| , TURBIDITY , , , , , , , , , , , , , , , , , , , | | FLAN (SWPPP) |
| | | PROJECT NO. |
| SINGLE ROW SILT FENCE (TYP) CONSTRUCTION ENTRANCE | | DRAWING NO. |
| | | 1145302_400_030 |
| SILT FENCE (TYP) | | SHEET 30 of 35 |

ADAMSON CREEK PHASE ONE-C

A REPLAT OF (TRACT 3, ADAMSON CREEK PHASE ONE-A, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 57, PAGE 49, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER WITH THAT CERTAIN PARCEL OF LAND DESCRIBED AS PARCEL 4 IN OFFICIAL RECORDS BOOK 8071, PAGE 1946, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER ALSO WITH THAT PART OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST), CITY OF COCOA, BREVARD COUNTY, FLORIDA PRELIMINARY PLAT

PLAT NOTES:

- BEARING REFERENCE: ASSUMED BEARING OF N00°16'59"E ON THE WEST LINE OF TRACT 3, ADAMSON CREEK PHASE ONE-A, RECORDED IN PLAT BOOK 57, PAGE 49, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA
- 2. SURVEY MONUMENTATION WITHIN THE SUBDIVISION SHALL BE SET IN ACCORDANCE WITH FLORIDA STATUTES, CHAPTER 177.091(8) AND 177.091(9)
- 3. LOT LINES ARE RADIAL UNLESS OTHERWISE NOTED
- ALL PLATTED PUBLIC UTILITY EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY. IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES. THIS SECTION SHALL NOT APPLY TO THOSE PRIVATE EASEMENTS GRANTED TO OR OBTAINED BY A PARTICULAR ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY, SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLORIDA PUBLIC SERVICE COMMISSION.
- 5. THE FOLLOWING EASEMENTS ARE HEREBY DEDICATED:
 - a. A PUBLIC EASEMENT 10.00 FOOT WIDE, ACROSS THE FRONT OF ALL LOTS AND TRACTS CONTIGUOUS WITH AND ADJACENT TO THE PRIVATE ROAD RIGHTS-OF-WAY DEDICATED BY THIS PLAT, IS RESERVED FOR THE INSTALLATION OF FLORIDA POWER AND LIGHT (FP&L) FACILITIES, POTABLE WATER, RECLAIMED WATER, PRIVATE DRAINAGE, AND OTHER PUBLIC UTILITIES UNLESS OTHERWISE NOTED.
 - b. A 5.00 FOOT WIDE PUBLIC UTILITY EASEMENT ALONG THE REAR AND SIDES OF EACH LOT. IN THE EVENT THAT ONE OR MORE LOTS, OR PARTS OF ONE OR MORE LOTS ARE USED AS A SINGLE BUILDING SITE, ONLY THE EXTERIOR BOUNDARIES OF THE BUILDING SITE SHALL CARRY THE SIDE EASEMENTS
 - C AN EASEMENT TO THE CITY OF COCOA AND BREVARD COUNTY FOR EMERGENCY ACCESS FOR INGRESS/EGRESS OVER ALL PRIVATE ROAD RIGHTS-OF-WAY, PRIVATE DRAINAGE EASEMENTS AND STORM WATER MANAGEMENT TRACTS.
 - d. AN EASEMENT TO THE FLORIDA DEPARTMENT OF TRANSPORTATION OVER AND ACROSS THE PRIVATE RIGHTS-OF-WAY OF TALBOT BOULEVARD AND MORELY DRIVE FOR EMERGENCY ACCESS TO THE STORMWATER POND LOCATED WITHIN TRACT I IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMENDED STIPULATED ORDER OF TAKING NUNC PRO TUNC AND FINAL JUDGEMENT RECORDED IN OFFICIAL RECORDS BOOK 5842 PAGE 3822, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.
- e. AN EASEMENT TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OVER ALL PRIVATE ROAD RIGHTS-OF-WAY. DRAINAGE EASEMENTS AND TRACTS FOR ACCESS TO ADJOINING CONSERVATION TRACTS AND CONSERVATION EASEMENTS
- 6. ALL LOT DRAINAGE IS PRIVATE AND IS THE RESPONSIBILITY OF THE INDIVIDUAL HOMEOWNER TO MAINTAIN SAID PRIVATE DRAINAGE WITHIN THEIR HOME SITE. THIS DOES NOT INCLUDE DRAINAGE PIPES WITHIN THE PRIVATE DRAINAGE EASEMENTS AS SHOWN HEREON.
- 8. THE PRIVATE DRAINAGE EASEMENTS SHOWN HEREON ARE HEREBY DEDICATED TO THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR THE PURPOSES OF INSTALLATION. OPERATION, MAINTENANCE, REPAIR AND ACCESS TO THE STORM WATER FACILITIES WITHIN THE PLAT BOUNDARY
- WHERE PRIVATE SIDEWALKS ARE LOCATED WITHIN LOTS OR TRACTS SHOWN HEREON, SUCH LOTS AND TRACTS SHALL BE SUBJECT TO A PRIVATE SIDEWALK EASEMENT HEREBY DEDICATED TO ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. TO ACCOMMODATE SUCH SIDEWALK, FOR THE SOLE PURPOSE OF MAINTAINING AND REPAIRING THE PRIVATE SIDEWALKS WITHIN SAID PRIVATE SIDEWALK EASEMENTS. NOTWITHSTANDING THE FOREGOING, ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. SHALL NOT BE RESPONSIBLE, OBLIGATED OR REQUIRED IN ANY MANNER TO CONSTRUCT SIDEWALKS IN WHOLE OR PART WITHIN THE LANDS PLATTED HEREUNDER. ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. SHALL NOT BE RESPONSIBLE FOR THE REPAIR OR THE REPLACEMENT OF ANY IRRIGATION FACILITIES OR LANDSCAPING WITHIN THE AREA BETWEEN THE PRIVATE RIGHT-OF-WAY AND THE PRIVATE SIDEWALK FASEMENT THAT MAY BE DAMAGED AS A RESULT OF MAINTENANCE AND REPAIR OF SIDEWALKS WITHIN SAID PRIVATE SIDEWALK FASEMENTS
- 10. TRACT H AND TRACT LARE HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR STORM WATER MANAGEMENT DRAINAGE, OPEN SPACE, LANDSCAPE AND RECREATION AMENITIES.
- 11. TRACT M-1 IS HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR DRAINAGE, OPEN SPACE AND RECREATION AMENITIES.
- 12. TRACT N IS HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR UTILITIES, OPEN SPACE AND RECREATION AMENITIES
- 13. TRACT O IS HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR DRAINAGE, UTILITIES, OPEN SPACE AND RECREATION AMENITIES.
- 14. TRACT W IS HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR OPEN SPACE AND RECREATION AMENITIES.
- 15. TRACT U IS HEREBY DEDICATED TO THE CITY OF COCOA FOR A SANITARY LIFT STATION. THIS TRACT IS INTENDED TO BE CONVEYED TO BREVARD COUNTY BY THE CITY OF COCOA FOR THE OPERATION, MAINTENANCE, AND ACCESS TO THE SANITARY LIFT STATION. UPON TRANSFER OF THIS TRACT TO BREVARD COUNTY, THEY SHALL NO LONGER BE SUBJECT TO THE TERMS AND CONDITIONS OF THIS PLAT. IN THE EVENT THAT OWNERSHIP OF THIS TRACT IS NOT TRANSFERRED TO BREVARD COUNTY, IT SHALL BE OWNED AND MAINTAINED BY THE CITY OF COCOA.
- 16. TRACT V IS HEREBY DEDICATED TO, CONTROLLED BY, AND MAINTAINED BY, THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC., ITS SUCCESSORS AND/OR ASSIGNS FOR THE CONSERVATION OF PRESERVED WETLANDS AND UPLANDS AND PASSIVE RECREATIONAL USE. NO ALTERATION OR FILLING IS ALLOWED IN TRACT V. TRACT V IS SUBJECT TO A CONSERVATION EASEMENT IN FAVOR OF THE ST JOHNS RIVER WATER MANAGEMENT DISTRICT PURSUANT TO SECTION 704.06. FLORIDA STATUTES.
- 17. THE PRIVATE RIGHTS-OF-WAY FOR TALBOT BOULEVARD AND MORELY DRIVE ARE HEREBY DEDICATED TO THE ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. FOR PRIVATES ROADS, AND ARE SUBJECT TO A NON-EXCLUSIVE PERPETUAL EASEMENT FOR THE PURPOSES OF VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS FOR USE BY THE OWNERS OF THE LOTS PLATTED HEREIN, THEIR GUESTS AND INVITEES, ALL PRIVATE AND PUBLIC AGENCIES PROVIDING MAIL DELIVERY, UTILITY SERVICES, PUBLIC SAFETY AND LAW ENFORCEMENT SERVICES AND GOVERNMENTAL SERVICES TO THE LANDS PLATTED HEREIN, PROVIDED FURTHER THAT A NON-EXCLUSIVE EASEMENT OVER, UNDER, ACROSS AND THROUGH SAID PRIVATE RIGHTS-OF-WAY IS DEDICATED TO ALL PUBLIC UTILITY PROVIDERS, INCLUDING BUT NOT LIMITED TO CABLE TELEVISION SERVICE PROVIDERS, FOR THE INSTALLATION, MAINTENANCE, ACCESS AND REPAIR OF THEIR RESPECTIVE FACILITIES WHICH PROVIDE SERVICE TO THE LANDS PLATTED HEREIN.
- 18. THIS PLAT IS SUBJECT TO THE TERMS AND CONDITIONS OF THAT CERTAIN FOURTH MODIFICATION TO ADAMSON CREEK BINDING DEVELOPMENT AGREEMENT AS RECORDED IN OFFICIAL RECORDS BOOK 8595, PAGE 1034. PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA
- 19. THE TOWER GUY ANCHOR EASEMENT SHOWN ON LOTS 211 AND 212 IS HEREBY DEDICATED TO THE ADAMSON CREEK HOMEOWNERS ASSOCIATION. INC. ITS SUCCESSORS AND/OR ASSIGNS FOR THE PURPOSE OF A TOWER GUY ANCHOR AS DEPICTED HEREIN. IN THE EVENT THE EXISTING TOWER GUY ANCHOR SHOWN IS RELOCATED TO AN OFFSITE LOCATION, THIS EASEMENT WILL AUTOMATICALLY TERMINATE AND BE OF NO OTHER FORCE AND EFFECT.

20. THIS PLAT IS SUBJECT TO THE RESTRICTIONS, RESERVATIONS AND COVENANTS AS SHOWN ON THE PLAT OF ADAMSON CREEK PHASE ONE-A, AS RECORDED IN PLAT BOOK 57, PAGE 49, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA

| | | | TRACT DATA TABLE / OPEN SPACE CALCU | JLATION | |
|----------|--------|--------------------|---|--|-----------------------------|
| TRACT ID | | AREA (±PERCENT) | TRACT USE | OWNERSHIP AND MAINTENANCE | COMMON OPEN SPACE CREDIT |
| н | 3.84 | 6.15% | STORM WATER MANAGEMENT, DRAINAGE, OPEN SPACE, LANDSCAPE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 3.84 |
| I | 20.80 | 33.33% | STORM WATER MANAGEMENT, DRAINAGE, OPEN SPACE, LANDSCAPE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 7.97 |
| M-1 | 0.16 | 0.26% | DRAINAGE, OPEN SPACE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 0.16 |
| Ν | 0.15 | 0.24% | UTILITIES, OPEN SPACE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 0.15 |
| 0 | 0.14 | 0.22% | DRAINAGE, UTILITIES, OPEN SPACE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 0.14 |
| U | 0.04 | 0.06% | SANITARY LIFT STATION | CITY OF COCOA | 0.00 |
| V | 6.85 | 10.98% | WETLAND PRESERVATION, UPLAND BUFFER AND OPEN SPACE | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 2.10 |
| W | 0.05 | 0.08% | OPEN SPACE AND RECREATION AMENITIES | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 0.05 |
| N/A | 24.90 | 39.90% | RESIDENTIAL DEVELOPMENT (155 LOTS) | | 0.00 |
| N/A | 5.47 | 8.78% | PRIVATE RIGHT-OF-WAY | ADAMSON CREEK HOMEOWNERS ASSOCIATION, INC. | 0.00 |
| | 62.40 | 100.00% | TOTAL PUD BOUNDARY PHASE ONE-C | | |
| | | 25.00% | REQUIRED OPEN SPACE (25% OF 62.4 AC) | | 15.60 |
| | 176.06 | | PREVIOUS/ORIGINAL TOTAL PUD BOUNDARY (FROM PHASE ONE-A PLAT) | | |
| | 192.96 | | REVISED TOTAL PUD BOUNDARY (176.06 AC + 16.90 AC = 192.96 AC) | | |
| | | | TOTAL REQUIRED OPEN SPACE (25% OF 192.96 AC) | | 48.24 |
| | 176.06 | | TOTAL PLATTED PUD BOUNDARY PHASE ONE-A | | |
| | 30.86 | | TOTAL PLATTED PUD BOUNDARY PHASE ONE-B | | |
| | | | PROVIDED COMMON OPEN SPACE (PHASE ONE-C) | | 14.41 |
| | | | TOTAL PROVIDED OPEN SPACE | | 48.24 |

NTS

DESCRIPTION OF ADAMSON CREEK PHASE ONE-C

TRACT 3, ADAMSON CREEK PHASE ONE-A, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 57, PAGE 49, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER WITH THAT CERTAIN PARCEL OF LAND DESCRIBED AS PARCEL 4 IN OFFICIAL RECORDS BOOK 8071, PAGE 1946, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER ALSO WITH THAT PART OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST, LYING WEST OF THE WEST RIGHT-OF-WAY LINE OF INTERSTATE 95, ALL BEING IN SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BREVARD COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGIN AT THE NORTHWEST CORNER OF SAID TRACT 3 AND RUN N89°54'29"E ALONG THE NORTH LINE OF SAID TRACT 3 AND THE NORTH LINE OF SAID PARCEL 4. A DISTANCE OF 646.75 FEET TO THE NORTHEAST CORNER OF SAID PARCEL 4 AND A NON-TANGENT INTERSECTION WITH THE CURVED WEST BOUNDARY OF TRACT S OF SAID ADAMSON CREEK PHASE ONE-A, (SAID POINT ALSO BEING THE NORTHWEST CORNER OF SAID TRACT S); THENCE ALONG THE WEST LINE OF SAID TRACT S THE FOLLOWING NINETEEN (19) COURSES AND DISTANCES: (1) THENCE ALONG THE ARC OF SAID CURVE. (SAID CURVE BEING CURVED CONCAVE TO THE NORTHEAST AND HAVING A RADIUS OF 5929.58 FEET, A CENTRAL ANGLE OF 2°24'50", A CHORD BEARING OF S24°45'17"E AND A CHORD LENGTH OF 249.79 FEET), A DISATNCE OF 249.81 FEET TO AN INTERSECTION WITH A NON-TANGENT LINE TO THE WEST; (2) THENCE S89°54'29"W. ALONG SAID NON-TANGENT LINE. A DISTANCE OF 81.82 FEET: (3) THENCE S00°16'59"W, A DISTANCE OF 143.93 FEET; (4) THENCE S07°22'26"E, A DISTANCE OF 42.82 FEET: (5) THENCE S24°41'05"E. A DISTANCE OF 42.91 FEET: (6) THENCE S41°49'05"E. A DISTANCE OF 44.27 FEET: (7) THENCE S45°59'00"E. A DISTANCE OF 310.00 FEET; (8) THENCE S46°35'43"E, A DISTANCE OF 51.50 FEET; (9) THENCE S42°35'28"E, A DISTANCE OF 58.27 FEET; (10) THENCE S37°36'39"E. A DISTANCE OF 58.27 FEET: (11) THENCE S32°37'51"E. A DISTANCE OF 58.27 FEET: (12) THENCE S27°39'03"E. A DISTANCE OF 58.27 FEET: (13) THENCE S22°40'15"E. A DISTANCE OF 58.27 FEET: (14) THENCE S17°41'27"E. A DISTANCE OF 58.27 FEET: (15) THENCE S12°42'39"E. A DISTANCE OF 58.27 FEET (16) THENCE S07°43'51"E A DISTANCE OF 58 27 FEET: (17) THENCE S02°45'02"E A DISTANCE OF 58 27 FEET: (18) THENCE S00°59'32"W FEET: (19) THENCE S00°19'09"W. A DISTANCE OF 64.50 FEET TO THE SOUTHWEST CORNER OF SAID TRACT S: THENCE S89°40'51"E ALONG OF SAID TRACT S. A DISTANCE OF 140.00 FEET TO THE NORTHWEST CORNER OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 22 THENCE N89°53'14"F. ALONG THE NORTH LINE OF SAID WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22 A DISTANCE OF 113 22 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF SAID INTERSTATE 95. THENCE \$30°19'39"F. ALONG SAID WEST RIGHT-OF-WAY LINE A DISTANCE OF 1081.98 FEET TO A POINT ON THE EAST LINE OF SAID WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22; THENCE S00°19'09"W ALONG SAID EAST LINE, A DISTANCE OF 390.07 FEET TO SOUTHEAST CORNER OF SAID WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22; THENCE S89°52'00"W ALONG THE SOUTH LINE OF SAID WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22, A DISTANCE OF 664.77 FEET TO THE SOUTHWEST CORNER OF SAID WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22 AND A POINT ON THE BOUNDARY LINE OF SAID TRACT 3: THENCE ALONG THE BOUNDARY LINE OF SAID TRACT 3 THE FOLLOWING SEVENTY (70) COURSES AND DISTANCES; (1) THENCE S00°19'09"W, A DISTANCE OF 1334.27 FEET TO THE SOUTHEAST CORNER OF SAID TRACT 3; (2) THENCE N89°58'23"W, A DISTANCE OF 16.92 FEET; (3) THENCE N08°53'29"W, A DISTANCE OF 73.91 FEET; (4) THENCE N07°14'12"E, A DISTANCE OF 99.37 FEET; (5) THENCE N64°31'19"W, A DISTANCE OF 77.11 FEET; (6) THENCE S57°14'18"W, A DISTANCE OF 145.00 FEET; (7) THENCE S62°29'02"W, A DISTANCE OF 49.23 FEET; (8) THENCE S78°10'44"W, A DISTANCE OF 10.88 FEET; (9) THENCE N00°54'03"E, A DISTANCE OF 21.33 FEET; (10) THENCE N34°36'56"E, A DISTANCE OF 63.29 FEET; (11) THENCE N44°38'20"E, A DISTANCE OF 148.87 FEET; (12) THENCE N03°54'50"E, A DISTANCE OF 216.82 FEET; (13) THENCE N05°18'23"E, A DISTANCE OF 243.14 FEET: (14) THENCE N13°52'57"W. A DISTANCE OF 109.98 FEET: (15) THENCE N23°00'03"W. A DISTANCE OF 323.75 FEET: (16) THENCE N10°39'59"E. A DISTANCE OF 47.82 FEET; (17) THENCE N21°20'41"E, A DISTANCE OF 58.17 FEET; (18) THENCE N46°31'35"E, A DISTANCE OF 68.69 FEET; (19) THENCE N34°46'00"E, A DISTANCE OF 77.57 FEET; (20) THENCE N37°07'27"W, A DISTANCE OF 56.20 FEET; (21) THENCE N66°26'23"W, A DISTANCE OF 39.14 FEET; (22) THENCE N55°56'01"W, A DISTANCE OF 34.89 FEET; (23) THENCE N18°22'07"W, A DISTANCE OF 64.70 FEET; (24) THENCE N19°23'46"W, A DISTANCE OF 64.50 FEET; (25) THENCE N29°05'29"W, A DISTANCE OF 13.86 FEET; (26) THENCE N21°27'53"E, A DISTANCE OF 42.16 FEET; (27) THENCE N24°24'06"W, A DISTANCE OF 68.00 FEET; (28) THENCE N10°43'08"W, A DISTANCE OF 85.75 FEET; (29) THENCE N17°03'09"W, A DISTANCE OF 43.86 FEET; (30) THENCE N22°25'29"E, A DISTANCE OF 46.95 FEET; (31) THENCE N43°56'57"W, A DISTANCE OF 64.25 FEET; (32) THENCE N04°08'44"W, A DISTANCE OF 76.26 FEET; (33) THENCE N26°51'50"E, A DISTANCE OF 40.59 FEET; (34) THENCE N05°22'29"E, A DISTANCE OF 68.44 FEET TO THE SOUTHEAST CORNER OF TRACT M OF SAID ADAMSON CREEK PHASE ONE-A; (35) THENCE CONTINUE N05°22'29"E, A DISTANCE OF 78.28 FEET; (36) THENCE N30°19'31"W, A DISTANCE OF 176.97 FEET; (37) THENCE N16°17'17"W, A DISTANCE OF 74.28 FEET; (38) THENCE N05°06'44"W, A DISTANCE OF 70.34 FEET; (39) THENCE N01°33'15"E, A DISTANCE OF 54.19 FEET; (40) THENCE N00°19'09"E, A DISTANCE OF 308.03 FEET; (41) THENCE N32°30'23"W, A DISTANCE OF 34.60 FEET; (42) THENCE S57°29'37"W, A DISTANCE OF 21.75 FEET; (43) THENCE S62°13'24"W. A DISTANCE OF 55.19 FEET: (44) THENCE S64°10'33"W. A DISTANCE OF 55.38 FEET: (45) THENCE S60°13'10"W. A DISTANCE OF 51.18 FEET: (46) THENCE S55°43'48"W, A DISTANCE OF 47.85 FEET: (47) THENCE S50°48'57"W, A DISTANCE OF 47.85 FEET: (48) THENCE S45°54'05"W, A DISTANCE OF 47.85 FEET; (49) THENCE S40°59'13"W, A DISTANCE OF 47.85 FEET; (50) THENCE S36°04'22"W, A DISTANCE OF 47.85 FEET; (51) THENCE S33°22'16"W, A DISTANCE OF 49.85 FEET; (52) THENCE S33°21'57"W, A DISTANCE OF 50.00 FEET; (53) THENCE N56°43'06"W, A DISTANCE OF 120.00 FEET; (54) THENCE S33°21'57"W, A DISTANCE OF 29.95 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; (55) THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE NORTHWEST, AND HAVING A RADIUS OF 100.00 FEET, A CENTRAL ANGLE OF 1°51'47", A CHORD BEARING OF S34°17'51"W, AND A CHORD LENGTH OF 3.25 FEET), A DISTANCE OF 3.25 FEET TO AN INTERSECTION WITH A NON-TANGENT LINE TO THE SOUTHEAST; (56) THENCE S52°35'53"E ALONG SAID NON-TANGENT LINE, A DISTANCE OF 124.06 FEET; (57) THENCE S42°54'01"E, A DISTANCE OF 30.00 FEET; (58) THENCE S47°05'59"W, A DISTANCE OF 30.00 FEET; (59) THENCE N42°54'01"W, A DISTANCE OF 30.00 FEET; (60) THENCE S47°05'59"W, A DISTANCE OF 55.48 FEET; (61) THENCE S70°33'47"W, A DISTANCE OF 104.48 FEET; (62) THENCE S00°16'59"W, A DISTANCE OF 400.00 FEET; (63) THENCE S00°48'10"E, A DISTANCE OF 50.01 FEET; (64) THENCE S03°13'34"W, A DISTANCE OF 61.69 FEET; (65) THENCE S11°24'05"W, A DISTANCE OF 63.60 FEET; (66) THENCE N74°30'39"W, A DISTANCE OF 171.13 FEET TO A NON-TANGENT INTERSECTION WITH A CURVE TO THE LEFT; (67) THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE NORTHWEST, AND HAVING A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 15°12'21", A CHORD BEARING OF N07°53'10"E, AND A CHORD LENGTH OF 72.77 FEET), A DISTANCE OF 72.98 FEET TO THE END OF SAID CURVE; (68) THENCE N00°16'59"E, A DISTANCE OF 7.00 FEET; (69) THENCE N89°43'01"W, A DISTANCE OF 140.00 FEET; (70) N00°16'59"E, A DISTANCE OF 2065.77 FEET TO THE POINT OF BEGINNING. CONTAINING 62.4 ACRES, MORE OR LESS.

PLAT BOOK

SHEET 1 OF 5

PAGE

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, the Corporation named below. being the owner in fee simple of the lands described in **ADAMSON CREEK PHASE ONE-C** Hereby dedicates said lands and plat for the uses and purposes therein expressed and dedicates all public drainage and utility easements as further described in the notes or as shown hereon. The owners hereby dedicate to the public and the City of Cocoa, Florida, all easements shown hereon as public easements and a perpetual public easement over and across the private rights-of-way of Talbot Boulevard and Morely Drive for ingress and egress for law enforcement and emergency vehicles, emergency access and emergency maintenance. An easement is hereby dedicated to the City of Cocoa, Florida over and across Talbot Boulevard and Morely Drive, (noted and shown hereon as private rights-of-way), for for the installation and maintenance of public utilities. The roadway easement, drainage facilities and private drainage within the subdivision are not dedicated to, or the responsibility of the City of Cocoa, Florida. SFAI Daniel J. Liparini, Assistant Secretary Attes Printed Name Attes Printed Name: D.R. HORTON, INC., A DELAWARE CORPORATION 1430 CULVER DRIVE PALM BAY, FLORIDA 32934 STATE OF FLORIDA COUNTY OF BREVARD The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this by Daniel J. Liparini, Assistant Secretary of the above named corporation incorporated under the laws of State of Florida, on behalf of the company, who is personally known to me or has produced as identification IN WITNESS WHEREOF, I have hereunto set my hand and seal on the above date. SEAL NOTARY PUBLIC My Comm. Expires **CERTIFICATE OF SURVEYOR** KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed professional surveyor and mapper, does hereby certify that on 02/28/2020 he completed a boundary survey of the lands shown on the foregoing plat; and that said plat was prepared under his direction and supervision and that said plat complies with all of the survey requirements of Chapter 177, part 1. Florida Statutes, and that said lands are located in the City of Cocoa, Brevard County, Florida. Registration Number 5611 LESLIE E. HOWARD B.S.E. Consultants, Inc. 312 South Harbor City Boulevard, Suite #4 Melbourne, Fla. 32901 Certificate of Authorization Number: LB-0004905 **CERTIFICATE OF REVIEWING SURVEYOR** I HEREBY CERTIFY, That I have reviewed the foregoing plat and find that it is in conformity with Chapter 177, part 1, Florida Statutes. J. Barry. Cabannis Reg. Florida Surveyor & Mapper #4524 Reviewing Surveyor for the City of Cocoa **CERTIFICATE OF APPROVAL OF MUNICIPALITY** THIS IS TO CERTIFY, That on , the foregoing plat was approved by the City Council of the City of Cocoa, Florida. Jake Williams, Jr., MAYOR ATTEST: Carie Shealy, CITY CLERK **CERTIFICATE OF CLERK**

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT

for record on MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. File No. - THIS PLAT PREPARED BY **B.S.E. CONSULTANTS, INC.** DATE: 08/20/2020 CONSULTING - ENGINEERING - LAND SURVEYING DESIGN/DRAWN: SMG/RMB 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 32901 PHONE: (321) 725-3674 FAX: (321) 723-31159 CERTIFICATE OF BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 ATTEST: DRAWING#1145302 300 001 Clerk of the Circuit Court in and for Brevard County, Fla. PROJECT# 11453.02

PROJECT LOCATION

LOCATION MAP

I HEREBY CERTIFY, That I have examined the foregoing plat and find that it complies in form with all the requirements of Chapter 177, Part 1, Florida Statutes, and was filed

PLAT BOOK PAGE SHEET 4 OF 5 SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST SURVEY SYMBOL LEGEND SECTION CORNER; MARKED AS NOTED 1/4 SECTION CORNER; MARKED AS NOTED FOUND (FD) 4"X4" CONCRETE MONUMENT (CM); STAMPED "PRM LB3608", UNLESS OTHERWISE NOTED FOUND (FD) 1/2" IRON ROD AND CAP (IRC); STAMPED "LB3608", UNLESS OTHERWISE NOTED SET PRM 5/8" IRON ROD AND CAP (IRC); STAMPED 0 "PRM LB4905", UNLESS OTHERWISE NOTED PERMANENT CONTROL POINT(PCP); SET MAG NAIL AND DISK STAMPED "PCP LB4905", UNLESS **OTHERWISE NOTED** FLOOD ZONE ABBREVIATIONS MINUTES/FEET SECONDS/INCHES ° DEGREES NOT RADIAL AC ACRES ARC LENGTH BOC BEGINNING OF CURVE CB CHORD BEARING CDD CENTRAL DRAINAGE DISTRICT CH CHORD LENGTH CM CONCRETE MONUMENT DEL CENTRAL/DELTA ANGLE DE PRIVATE DRAINAGE EASEMENT E EAST EOC END OF CURVE ESMT EASEMENT FD FOUND FLORIDA DEPARTMENT OF FDOT ADAMSON CREÈK TRANSPORTATION PHASE ONE-A FT FOOT/FEET PB 57, PG 49 LB LICENSED BUSINESS N NORTH TALBOT BOULEVARD NTI NON-TANGENT INTERSECTION (50' PUBLIC R/W) NTS NOT TO SCALE PB 57, PG 49 OR/ORB OFFICIAL RECORDS BOOK AL=72.98' R=275.00' DEL=15°12'21" PB PLAT BOOK POINT OF COMPOUND CURVATURE PCP PERMANENT CONTROL POINT PKD PARKER-KALEN NAIL AND DISK POB POINT OF BEGINNING

POC POINT OF COMMENCEMENT

PG(S) PAGE(S)

R RADIUS

SEC SECTION

S SOUTH W WEST

R/W RIGHT-OF-WAY

PRC POINT OF REVERSE CURVATURE

1 INCH = 50 FEET

BE

DATE: 08/20/2020 CONSULTING - ENGINEERING - LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 32901 PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF BUSINESS AUTHORIZATION: LB0004905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905

ADAMSON CREEK PHASE ONE-C

A REPLAT OF (TRACT 3, ADAMSON CREEK PHASE ONE-A, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 57, PAGE 49, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER WITH THAT CERTAIN PARCEL OF LAND DESCRIBED AS PARCEL 4 IN OFFICIAL RECORDS BOOK 8071, PAGE 1946, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, TOGETHER ALSO WITH THAT PART OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST), CITY OF COCOA, BREVARD COUNTY, FLORIDA PRELIMINARY PLAT

 $\mathbf{260}$

 $\mathbf{259}$

0.14 AC

FOR CONTINUENTION SETE SHIFTER 3

 $\mathbf{258}$

0.14 AC

0.14 AC

PLAT BOOK PAGE SHEET 5 OF 5 SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAST

| NG | CHORD LENGTH |
|----|--------------|
| 1 | 37.17 |
| / | 129.51 |
| / | 28.87 |
| | 81.65 |
| | |

SURVEY SYMBOL LEGEND

SECTION CORNER; MARKED AS NOTED

- 1/4 SECTION CORNER; MARKED AS NOTED
- FOUND (FD) 4"X4" CONCRETE MONUMENT (CM) STAMPED "PRM LB3608", UNLESS OTHERWISE NOTED FOUND (FD) 1/2" IRON ROD AND CAP (IRC); STAMPED
- UNLESS OTHERWISE NOTED SET PRM 5/8" IRON ROD AND CAP (IRC); STAMPEI
- 905", UNLESS OTHERWISE NOTED PERMANENT CONTROL POINT(PCP); SET MAG NAIL
- AND DISK STAMPED "PCP LB4905", UNLESS OTHERWISE NOTED
 - ABBREVIATIONS MINUTES/FEE
 - SECONDS/INCHES
 - ° DEGREES
 - (NR) NOT RADIAL
 - AC ACRES
 - ARC LENGTH AL **BEGINNING OF CURVE** BOC
 - CB CHORD BEARING
 - CDD CENTRAL DRAINAGE DISTRICT
 - CH CHORD LENGTH
 - CM CONCRETE MONUMENT
 - DEL CENTRAL/DELTA ANGLE
 - DE PRIVATE DRAINAGE EASEMENT Е EAST
 - EOC END OF CURVE
 - ESMT EASEMENT
 - FD FOUND
 - FLORIDA DEPARTMENT OF FDOT TRANSPORTATION
 - FT FOOT/FEET
 - LB LICENSED BUSINESS
 - N NORTH
 - NTI NON-TANGENT INTERSECTION
 - NTS NOT TO SCALE OR/ORB OFFICIAL RECORDS BOOK
 - PB PLAT BOOK
 - POINT OF COMPOUND PCC
 - CURVATURE
 - PERMANENT CONTROL POINT PCP PARKER-KALEN NAIL AND DISK PKD
 - POB POINT OF BEGINNING
 - POINT OF COMMENCEMENT POC
 - PRC POINT OF REVERSE CURVATURE
 - PG(S) PAGE(S) RADIUS R
 - RIGHT-OF-WAY R/W
 - SEC SECTION S SOUTH
 - W WEST

1 INCH = 50 FEET

- THIS PLAT PREPARED BY -**B.S.E. CONSULTANTS, INC.** CONSULTING - ENGINEERING - LAND SURVEYING

DATE: 08/20/2020 DESIGN/DRAWN: SMG/RMB 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 3201 PHONE: (321) 725-3674 FAX: (321) 723-1159 CERTIFICATE OF BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 PROJECT# 11453.02 DRAWING#1145302_300_002-005

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER UNLESS ELECTRONICALLY SIGNED AND SEALED IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 472.025.

THIS SURVEY MEETS THE STANDARDS OF PRACTICE FOR SURVEYS AS REQUIRED BY FLORIDA STATUTES CHAPTER 472 AND THE MINIMUM TECHNICAL STANDARDS FOR SURVEYS AS REQUIRED BY CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

DATE OF LAST FIELD WORK: 2/28/20

| awings\11453(| \ | B.S.E. CONSULTANTS. INC. | | SCOTT M. GLAUBITZ PROFESSIONAL LAND SURVEYOR FLORIDA LICENSE NUMBER 4151 | PROJECT NO. |
|---------------|--|---|-----------------|--|--------------------------|
| 11453.02\Dra | | CONSULTING - ENGINEERING - LAND SURVEYING 312 SOLITH HAPPOR CITY BOLLEVARD, SUITE 4 | | | DRAWING NO. |
| ects Folder/1 | | B C C C C C C C C C C C C C | BOUNDARY SURVEY | | 1145302_100_001 SHEET |
| H:\Proj | CORRECTED ACREAGE IN DESCRIPTION AND GRAPHICS 07/10/2020 | CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905 | | PROFESSIONAL SURVEYOR & MAPPER FLORIDA LICENSE NUMBER 5611 | 1 of 1 |

ADAMSON CREEK PHASE ONE-C

LANDSCAPE PLAN SECTION 22, TOWNSHIP 24 SOUTH, RANGE 35 EAS CITY OF COCOA, BREVARD COUNTY, FLORIDA

SHEET INDEX SHEET TITLE SHEET # DRAWING # 145302_401_001 COVER SHEET 145302_401_002 GENERAL LANDSCAPE PLAN AND NOTES 1145302_401_003 GENERAL LANDSCAPE PLAN 1145302_401_004 GENERAL LANDSCAPE PLAN AND DETAILS

D.R. HORTON 1430 CULVER DRIVE PAL BAY, FL. 32907

(321) 953-3135

- PREPARED BY -**B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING** 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 725-3674 / FAX: (321) 723-1159

CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905

SYMBOLS SHOWN ARE GRAPHIC IN NATURE; DUE TO SCALE, A

| S <i>T</i> | <image/> <section-header><text><text><text><text><text></text></text></text></text></text></section-header> |
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| | HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951 |
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| | DATE: 07/31/20 DESIGN/DRAWN: SMG/RMB |
| | PROJECT TITLE |
| | ADAMSON CREEK PHASE ONE-C |
| | |
| | COVER SHEET |
| | |
| | PROJECT NO. 11453.02 |
| | DRAWING NO. |
| | 1145302_401_001 SHEET |
| VERTICAL DATUM: NGVD29 CONVERSION FROM NGVD29 TO NAVD88: SUBTRACT 1.38' FROM NGVD29 | 1 of 4 |
| L DESIGN ELEMENTS ARE NOT NECESSARILY SHOWN ON PLAN VIEWS. THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION AND DETAIL SH | IEETS AS WELL AS THE COMPLETE PLAN SET. |

t:\\Projects Folder\11453.02\Drawings\1145302_401\1145302_401_LS.dwg August 21, 2020 3:53:04 PN

| PLANT LIST | | | | | | |
|---|---|--|--|---|---|--|
| TIFIC NAME MON VIMINALIS | COMMON NAME WEEPING BOTTLEBRUSH | PLANTING SIZE 2.5" CAL. MIN. 30 GAL MIN. MULTI-TRUNK | | | | |
| TIFIC NAME UATA 'SAVANNAH' | COMMON NAME SAVANNAH HOLLY | PLANTING SIZE 2.5"-CAL. MIN. | | | | |
| X OPACA A GRANDIFLORA JS VIRGINIANA | AMERICAN HOLLY SOUTHERN MAGNOLIA SOUTHERN LIVE OAK | 2.5" CAL. MIN., SINGLE TRUNK 3" CAL., 12' x 5' MIN. 3" CAL., 12' X 5' MIN. | | ÷ | \rightarrow \rightarrow | \rightarrow \rightarrow \rightarrow |
| TIFIC NAME MASCENDENS | COMMON NAME POND CYPRESS | PLANTING SIZE 2.5" CAL., 7' x 3' MIN. | | $ \begin{array}{c} \rightarrow \\ \rightarrow $ | $ \begin{array}{c} \rightarrow \\ \rightarrow \\ \rightarrow \\ \end{array} $ | $\begin{array}{ccc} \rightarrow & \rightarrow \\ \rightarrow & \rightarrow & \rightarrow \\ \rightarrow & \rightarrow & \rightarrow \end{array}$ |
| TIFIC NAME NUTA 'CARISSA' | COMMON NAME CARISSA HOLLY | PLANTING SIZE 3 GAL., 24" MIN. | SPACING 3.0' | > · · · · | | $\begin{array}{ccc} & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ \end{array}$ |
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LANDSCAPE INSTALLATION NOTES:

- PONDS #5 AND #6 HAVE BEEN CONSTRUCTED DURING PHASE ONE-A.
 NO CLEARING OR CONSTRUCTION IS ALLOWED WITHIN THE WETLAND CONSERVATION AREA.
 THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND BASE INFORMATION PRIOR TO INITIATION PLANTING INSTALLATION. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
 CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 72 HOURS MINIMUM PRIOR TO DIGGING FOR
- VERIFICATION OF ALL UNDERGROUND UTILITIES, IRRIGATION AND ALL OTHER OBSTACLES AND COORDINATE WITH OWNERS REPRESENTATIVE PRIOR TO INITIATING OPERATIONS. DRAWINGS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING: THESE DOCUMENTS.
 5. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING: SITE CONDITIONS PRIOR TO INITIATING PLANTING. ALL EXISTING SITE FAYING, LANDSCAPE AND OTHER ELEMENTS TO REMAIN SHALL BE PRESERVED AND PROTECTED FROM DAMAGE UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, THE LIMITS OF CONSTRUCTION ARE THE CLEARING LIMITS NOTED ON THE DRAWINGS. (REFERENCE CIVIL DRAWINGS)
 REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.
 CONTRACTOR SOUND DE RECEDUCIONE TO DEPLACE ALL PORTIONS OF EXISTING LAMIN RAMAGED WITH E CONDUCTION
- CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL PORTIONS OF EXISTING LAWN DAMAGED WHILE COMPLETING PLANTING INSTALLATION WITH SAME GRASS SPECIES TO THE SATISFACTION OF THE OWNER & REPRESENTATIVE.
 ALL PLANT MATERIAL SHALL 6E FLORIDA NO. I OR BETTER AS OUTLINED UNDER "GRADES AND STANDARDS FOR NURSERY PLANTS, PART 1, 1998, STATE OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, TALLAHASSEE, FLORIDA, AND ANY AMENDMENTS THERETO.
- 11. ALL TREES AND PLANT MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS DESCRIBED IN THE STATE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF FORESTRY, 'TREE PROTECTION MANUAL FOR BUILDING AND DEVELOPMENT 1980, AND ANY AMENDMENTS THERETO. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND ALL MATERIALS AS CALLED FOR ON THE LANDSCAPE FLANS, THE LIST OF PLANT QUANTITIES ACCOMPANYING, THE PLANS SHALL BE USED AS A GUIDE ONLY. IF A VARIATION OCCURS BETWEEN THE PLANS AND THE PLANT LIST, IMMEDIATELY CONTACT THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE CONTRACTOR SHALL ENSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANTING BEDS AND PLANTERS. VERTICAL DRILLING: THROUGH ANY COMPACTED FILL TO NATIVE SOIL SHALL BE ACCOMPLISHED TO AID DRAINAGE.
 ALL PLANT BEDS AND TREE WELLS SHALL BE FREE OF DE MATERIALS, TRASH, DEBRIS, ROAD BASE MATERIALS AND THE LIKE. BEDS TO BE TOP DRESSED WITH ACCEPTABLE MULCH TO A DEPTH OF 3' (THREE INCHES).
 NO TREES SHALL BE PLANTED CLOSER THAT 3 FEET (3' FROM THE EDGE OF PAVEMENT TO ALLOW ADEQUATE TREE TRUNK PROTECTION.
- LANDSCAPE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR STABILITY AND PLUM CONDITION OF ALL TREES AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTALLATION OF ANY PLANT MATERIAL.
 SOD SHALL BE FREE OF WEEDS AND PESTS. IT SHALL 6=BE LAID EVENLY AND ROLLED, WITH TIGHT FITTING JOINTS. SOD SHALL CONTAIN MOIST SOIL WHICH DOES NOT FALL APART OR TEAR WHEN LIFTED. ALL AREAS NOT PAVED OR OTHERWISE LANDSCAPED SHALL BE SODDED. SOD SPECIES SHALL 6E MATCHED TO EXISTING SPECIES ON SITE. SEEDED AREAS ADJACENT TO TEMPORARY PARKING LOT SHALL BE BAHIA, FREE OF NOXIOUS WEEDS, MULCHED SUFFICIENTLY TO PROTECT AND ENHANCE GERMINATION. ANY DISCREPANCIES ARE TO BE DISCUSSED WITH THE LANDSCAPE ARCHITECT.
- ALL TREES SHALL HAVE ALL SIX FEET (6') CLEAR TRUNK UNLESS OTHERWISE SPECIFIED.
 SIZES NOTED ON PLANT LIST ARE MINIMUM. INCREASE SIZE IF NECESSARY, TO CONFORM TO PLANT SIZE AND SPECIFICATIONS.
- ANY TREE WITH A 'V' SHAFE FORMED TRUNK (PRIMARY LIMB STRUCTURE) WILL 6E REJECTED.
 LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNERS REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT.
 LANDSCAPE CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE OR THE LANDSCAPE ARCHITECT.
- ANY SUBSTITUTIONS IN SIZE AND OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE BEFORE THE PLANTING CAN BEGIN.
 CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, AND THE GENERAL NOTES FOR
- LANDSCAPE PLANTING INSTRUCTIONS.
 24. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED BY PLANT NEEDS OR REQUESTS OF OWNER'S REPRESENTATIVE TO SUPPLEMENT REGULAR IRRIGATION OR RAINFALL, REGARDLESS OF STATUS OF EXISTING OR
- PROPOSED IRRIGATION. 25. LANDSCAPE CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OFF-SITE DAILY. ALL MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 26. LANDSCAPE CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, OR INSTALLATION WORK. LANDSCAPE CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION AND OR INSTALLATION WORK

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| B.S.E. CONSULTANTS, INC |
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