



KEY PLAN

GENERAL NOTES

- GENERAL NOTES APPLICABLE TO ALL S3000 SERIES DRAWINGS.
- THE PLANT GRID SYSTEM USED FOR HORIZONTAL CONTROL IS STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE 901, NAD83.
- INTERSECTIONS OF PAVED ROADS SHALL HAVE A 40 FOOT TURNING RADIUS MEASURED FROM THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE. A SMOOTH VERTICAL TRANSITION SHALL BE PROVIDED AT ROAD INTERSECTIONS.
- THE LOCATIONS OF THE EXISTING FACILITIES AND UNDERGROUND UTILITIES SHOWN ON THIS SERIES OF DRAWINGS REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. BEFORE ANY WORK IS STARTED IN THE AREA OF THE EXISTING FACILITIES AND UNDERGROUND UTILITIES, THE SUBCONTRACTOR SHALL CONFIRM THEIR LOCATION AND NOTIFY THE OWNER THAT WORK IS PLANNED IN THIS AREA.
- CONSTRUCTION SEQUENCE SHALL BE SCHEDULED TO MINIMIZE UNCONTROLLED RUNOFF AND OFFSITE SEDIMENTATION DURING GRADING OPERATIONS. SEDIMENTATION BARRIERS SHALL BE INSTALLED IN EACH AREA BEFORE GRADING OPERATIONS BEGIN. GRADED AREAS SHALL BE SEED IMMEDIATELY FOLLOWING COMPLETION OF FINAL GRADING IN EACH AREA.
- SPOT ELEVATION AND CONTOURS ON THESE DRAWINGS ARE TOP OF FINISHED GRADE. SUBTRACT FINISHED SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
- GRADE SHALL SLOPE UNIFORMLY BETWEEN SPOT ELEVATIONS AND CONTOURS SHOWN ON THE PLANS. SLOPE GRADE TO DRAIN IN THE DIRECTION OF FLOW ARROWS.
- THE FINISHED GRADE SHALL BE SET 6 INCHES BELOW TOP OF CONCRETE UNLESS NOTED OTHERWISE. FINISHED GRADE SHOULD SLOPE AWAY FROM THE STRUCTURE AT A MINIMUM SLOPE OF 1% FOR THE FIRST 10 FEET.
- ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER, UNLESS NOTED OTHERWISE.
- BUMPER POSTS ARE TO BE FIELD LOCATED.
- SEE DWG 147651-4STF-S3050 FOR GRADING AND DRAINAGE SECTIONS AND DETAILS.
- SEE 147651-4STF-S3100 SERIES DRAWINGS FOR THE EROSION CONTROL PLAN AND DETAILS.
- SEE DWGS 147651-4STA-S1000 AND S1001 FOR SITE ARRANGEMENT.

LEGEND APPLICABLE TO ALL S3000 DRAWINGS

|               |                                      |  |                     |
|---------------|--------------------------------------|--|---------------------|
| — — — — —     | PROPERTY LINE                        |  | ASPHALT SURFACING   |
| - - - - -     | LIMIT OF RIGHT-OF-WAY                |  | AGGREGATE SURFACING |
| - x - x - x - | NEW SECURITY FENCE                   |  | CONCRETE            |
| — 99 —        | NEW CONTOUR                          |  | EARTH               |
| □             | AREA INLET                           |  | RIPRAP              |
| — — — — —     | NEW STORM WATER SYSTEM               |  | SAND/BEDDING MAT'L  |
| — — — — —     | NEW CULVERT                          |  | GRASS               |
| — — — — —     | GRADE SURFACE FLOW INDICATOR         |  | WETLANDS            |
| 123.45 +      | NEW SPOT ELEVATION                   |  |                     |
| ⊙             | SURVEY CONTROL MONUMENT              |  |                     |
| — — — — —     | NEW TRENCH DRAIN                     |  |                     |
| - x - x - x - | EXISTING FENCE                       |  |                     |
| — 99 —        | EXISTING CONTOUR                     |  |                     |
| - - - - -     | WETLAND BUFFER ZONE                  |  |                     |
| - - - - -     | OVERHEAD TRANSMISSION LINE           |  |                     |
| - - - - -     | FDEP JURISDICTIONAL WETLAND BOUNDARY |  |                     |

1  
S3000

SECTION OR DETAIL NUMBER  
DRAWING DESIGNATION NUMBER

ABBREVIATIONS APPLICABLE TO ALL S3000 DRAWINGS

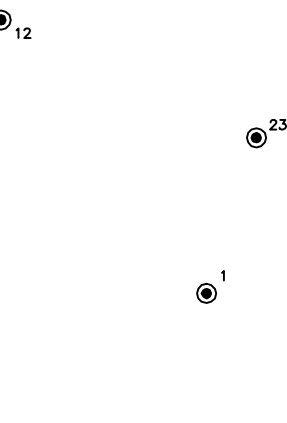
|        |                                           |         |                                |
|--------|-------------------------------------------|---------|--------------------------------|
| A      | ARC LENGTH                                | LS      | LIFT STATION                   |
| AGG    | AGGREGATE                                 | LTR     | LATER                          |
| APPROX | APPROXIMATE                               | MATL    | MATERIAL                       |
| ASPH   | ASPHALT                                   | MH      | MANHOLE                        |
| AVC    | AVERAGE                                   | MSL     | MEAN SEA LEVEL                 |
| BLDG   | BUILDING                                  | MW      | MONITORING WELL                |
| B/AH   | BOTTOM OF MANHOLE ELEVATION               | N       | NORTH                          |
| BOD    | BOTTOM OF ELECTRICAL DUCT BANK            | NO.     | NUMBER                         |
| BOP    | BOTTOM OF PIPE                            | NTS     | NOT TO SCALE                   |
| BU     | BELL UP                                   | OD      | OUTSIDE DIAMETER               |
| CHDPE  | CORRUGATED HIGH DENSITY POLYETHYLENE PIPE | DWS     | DRY/WATER SEPARATOR            |
| CJ     | CONTRACTION JOINT                         | PC      | POINT OF CURVATURE             |
| CL     | CENTERLINE                                | PE      | PLAIN END                      |
| CMP    | CORRUGATED METAL PIPE                     | PI      | POINT OF INTERSECTION          |
| CO     | CLEAR OUT                                 | PL      | PROPERTY LINE                  |
| D      | DEGREE OF CURVE                           | PLCS    | PLACES                         |
| Δ      | DELTA ANGLE OF HORIZONTAL CURVE           | PRC     | POINT OF REVERSE CURVE         |
| DI     | DUCTILE IRON                              | PT      | POINT OF TANGENT               |
| DIA    | DIAMETER                                  | PVC     | POINT OF VERTICAL CURVE        |
| DM     | DIMENSION                                 | PVI     | POINT OF VERTICAL INTERSECTION |
| DWG    | DRAWING                                   | PVT     | POINT OF VERTICAL TANGENT      |
| E      | EACH                                      | R       | RADIUS                         |
| EA     | EACH                                      | RCP     | REINFORCED CONCRETE PIPE       |
| EF     | EACH FACE                                 | RD      | ROOF DRAIN                     |
| EGP    | EDGE OF PAVEMENT                          | REDUCED | REDUCED                        |
| EGS    | EDGE OF SHOULDER                          | REQ'D   | REQUIRED                       |
| EHH    | ELECTRICAL HANDHOLE                       | REV     | REVISION                       |
| EL     | ELEVATION                                 | R/W     | RIGHT-OF-WAY                   |
| EW     | EXPANSION JOINT                           | SE      | SOUTH                          |
| EXP    | EXPANSION                                 | SE      | SUPERELEVATION                 |
| FD     | FLOOR DRAIN                               | SIM     | SIMILAR                        |
| FDN    | FOUNDATION                                | STA     | STATION                        |
| FG     | FINISHED FLOOR                            | TML     | TANGENT LENGTH                 |
| FG     | FINISHED GRADE                            | TOC     | TOP OF CONCRETE                |
| FRP    | FIBER REINFORCED PIPE                     | TOP     | TOP OF GRATING                 |
| FT     | FOOT                                      | TOT     | TOP OF TRENCH                  |
| HC     | HANDICAPPED                               | TYP     | TYPICAL                        |
| HDPE   | HIGH DENSITY POLYETHYLENE                 | UNO     | UNLESS NOTED OTHERWISE         |
| HVCM   | HORIZ & VERT CONTROL MONUMENT             | V       | VERTICAL                       |
| HP     | HIGH POINT                                | W       | WEST                           |
| ID     | INSIDE DIAMETER                           | W/O     | WITHOUT                        |
| IN     | INCH                                      | WP      | WORK POINT                     |
| INV    | INVERT                                    |         |                                |
| L      | LENGTH                                    |         |                                |
| LC     | LENGTH OF VERTICAL CURVE                  |         |                                |

PROJECT SURVEY CONTROL

CONTROL MONUMENT LOCATIONS

| MONUMENT NO. | EASTING     | NORTHING      | ELEVATION |
|--------------|-------------|---------------|-----------|
| 1            | 484,953.765 | 1,432,348.949 | 78.05     |
| 12           | 482,882.646 | 1,435,905.858 | 73.59     |
| 23           | 485,217.602 | 1,433,848.406 | 74.15     |
| 49           | 487,224.814 | 1,430,143.646 | 71.39     |

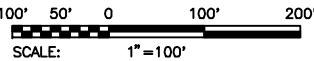
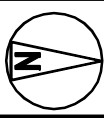
NOTE: BENCHMARKS ARE 5' x 12" CONCRETE MONUMENTS WITH BRASS DISC IN THE TOP. HORIZONTAL CONTROL IS BASED ON THE FLORIDA STATE PLANE COORDINATE - EAST ZONE (1983/90 N.A.D.) SYSTEM. THE ELEVATIONS ARE BASED ON THE NGVD 1929 DATUM FROM BENCHMARKS SET BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND INFORMATION THAT WAS FURNISHED BY THE OSCEOLA COUNTY ENGINEERING DEPARTMENT.



FOR PERMITTING  
PURPOSE ONLY  
APPROVED FOR  
CONSTRUCTION

ACAD 16.1s (LMS Tech)  
03/28/08 DB-4433

|     |            |                               |                    |
|-----|------------|-------------------------------|--------------------|
| 0   | 04/01/2008 | ISSUED FOR CONSTRUCTION       | MRL/JMS/AJS/MSS/A  |
| NO. | DATE       | REVISIONS AND RECORD OF ISSUE | DIV/DES/CHD/PE/APP |



I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_ REG. NO. \_\_\_\_\_

**BLACK & VEATCH**  
CORPORATION

ENGINEER: JMS DRAWN: MRR  
CHECKED: JMS DATE: 04/01/2008

FLORIDA MUNICIPAL POWER AGENCY  
CANE ISLAND POWER PARK UNIT 4

GRADING AND DRAINAGE - SITE  
GENERAL NOTES, ABBREVIATIONS AND LEGEND

|                   |                |              |
|-------------------|----------------|--------------|
| PROJECT           | DRAWING NUMBER | REV          |
| 147651-4STF-S3000 | 0              |              |
| CODE              | AREA           | FIGURE 3.8-2 |