CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

MARY BRICKELL VILLAGE
DRAINAGE AND ROADWAY IMPROVEMENTS - PHASE II
STORMWATER PUMP STATION

SW 1st AVENUE BETWEEN SW 8th STREET AND SW 9th STREET

CITY OF MIAMI PROJECT NUMBER: B-30637
NOVEMBER 14, 2014

COMMISSION

MAYOR: TOMAS P. REGALADO

COMMISSIONERS: WIFREDO GORT
MARC SARNOFF
FRANK CAROLLO
FRANCIS SUAREZ
KEON HARDMON

CITY MANAGER: DANIEL J. ALFONSO

CIP DIRECTOR: MARK SPANOLI

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LENGTH OF PROJECT

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CITY OF MIAMI PROJECT MANAGER: ASSESS LINE PROJECT

PLANS PREPARED BY:

T-Y-LIN INTERNATIONAL
EB00000407
201 Alhambra Circle Suite 900
Coral Gables, Florida 33134
Phone: 305/667-1888 Fax: 305/667-1771
Revisions:

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CITY OF MIAMI
MARY BROWN VILLAGE DRAINAGE AND ROADSIDE IMPROVEMENTS - PHASE II Swim Water Pump Station

PUMP STATION SITE PLAN

Revised by: [Signature]
CITY OF MIAMI PROJECT NO. 109-000

Florida East Coast Railways

Note:
1. Connect structures 5-1 and 5-7 to existing 36" x 60" storm sewer. (See sheet 10 for details.)
2. Refer to page 15 for fencing details.
**SECTION A-A**

- **Well Casing** to be placed to a depth of 70 ft below surface grade at each well location.
- Open hole construction shall extend 20 ft below end of casing pipe. No wellcasing is allowed in the top 15 feet of the well casing. Minimum discharge capacity shall be 600 gpm/ft of head.
- The cost of all materials and labor for the construction of structures S-8 and S-9 shall be included in pay item 425-2-71.

**INJECTION WELL STRUCTURES S-8 & S-9**

**NOTES:**
1. Existing utility shall be encased in a continuous dip sleeve extending 2' minimum from both sides of the drain. Refer to plans for size of dip sleeve.
2. Drainage pipe.
3. Cost of sleeve to be included in the unit bid item price for the structure.

**CONCRETE THRUST BLOCK DETAIL**

- Undisturbed soil or drainage structure.

---

**DRAINAGE DETAILS**

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CITY OF MIAMI

DRAINS AND ROADWAY IMPROVEMENTS - PHASE II
STORMWATER PUMP STATION

FRANCISCO ALONSO LICENSED PROFESSIONAL ENGINEER

No. 66918
NOTES:

1. THIS SPECIAL MANHOLE FOR WATER QUALITY TREATMENT IS BASED UPON THE DOWNSTREAM DEFENDER UNIT BY HYDRO INTERNATIONAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR PROPOSED TREATMENT UNIT (DOWNSTREAM DEFENDER OR APPROVED EQUALS, COMPLETE, INCLUDING MANHOLE STRUCTURE, MANHOLE FRAME AND COVERS, AND ALL INTERNAL COMPONENTS).

2. PROPOSED CONFIGURATION AND DIMENSIONS ARE GENERAL AND INTENDED FOR GUIDANCE ONLY. SEE SITE PLAN FOR UNIT ORIENTATION.

3. THE ORIENTATION OF THE INLET PIPE AND OUTLET PIPE CAN BE ADJUSTED DUE TO SITE REQUIREMENTS. FOR DOWNSTREAM DEFENDER UNITS, INLET PIPE MUST BE TANGENT TO PRECAST MANHOLE INSIDE DIAMETER AS SHOWN. CONTRACTOR SHALL COORDINATE COMPLETE INSTALLATION OF TREATMENT UNIT WITH MANUFACTURER.

4. OVERFLOW PIPE STUB MATCHES SD35S PIPES.

5. MASONRY FIXING BOLTS TO BE SUPPLIED BY THE CONCRETE SUPPLIER.

6. THE SPECIAL MANHOLE FOR WATER QUALITY TREATMENT SHALL BE SELECTED TO PROCESS DESIGN FLOW RATES SHOWN BELOW AND TO REMOVE FLOATABLES, DEBRIS, OILS AS WELL AS 90% REMOVAL OF TOTAL SUSPENDED SOLIDS WITH A SPECIFIC GRAVITY OF 2.65 DOWN TO 150 WADERS IN SIZE.

- STRUCTURE DESIGN FLOW RATE SEAL
  - S-5 18.7
  - S-5 SHALL BE INCLUDED IN FM ITEM 425-2-432

7. THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE CONSTRUCTION OF DRAINAGE STRUCTURES S-4 AND S-5 SHALL BE INCLUDED IN FM ITEM 425-2-432
NOTE:
1. The cost of all materials and labor necessary for the construction of drainage structures S-4 and S-5 shall be included in pay item 425-2-042.
NOTES:

1. ARROWS INDICATE DIRECTION OF FLOW.

2. CHECK VALVE SHALL BE HIDEFLEX SERIES TF-2 OR APPROVED EQUAL.

3. CHECK VALVE AND THIMBLE PLATE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

4. ANCHOR BOLTS FOR MOUNTING CHECK VALVE THIMBLE PLATE ON WALL SHALL BE PER MANUFACTURER'S INSTRUCTIONS OR AT A MINIMUM 6" X 6" STAINLESS STEEL "I" BOLTS 12" O.C.

5. THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION OF DRAINAGE STRUCTURES S-1 SHALL BE INCLUDED IN PAY ITEM 425-2-02.

6. ORIFICE PLATE SHALL BE 1/2" THICK STAINLESS AND BOLTED BETWEEN FLANGES OF 42" DIAMETER MECHANICAL JOLT DIP PIPES, PLATE SHALL HAVE 324.5 DIAMETER ORIFICE CENTERED WITHIN PLATE.
CONNECTIONS TO EXISTING CONC. BOX CUVERTS
(STRUCTURES 3'-8" & 5'-1")

NOTES:
1. PROP. BOX CUVERT SHOULD BE 10FT STANDARD PRECAST PER INDEX 293 AND 294 FOR DESIGN EARTH COVER 3"-25".
2. GROUTED DOWELS SHALL BE NO. 5 BARS INSTALLED AT 12" O.C. SIDE TOP AND BOTTOM JOINTS OF EXISTING AND PROP. BOX CUVERTS.
3. COST OF BOX CUVERT CONNECTION SHALL BE INCIDENTAL TO THE UNIT PRICE OF THE PROPOSED DRAINAGE STRUCTURE BEING CONNECTED.

Contractor shop drawings of proposed drainage structure shall include box culvert connection.

3/8" ALUMINUM ANGLE WELDED TO CONTINUOUS ALUMINUM.

3/4" x 3/8" PLATE W/ 1/4" S.S. BOLTS
1/4" x 1/4" S.S. BOLTS & NUTS
1" STEEL TUBING

5/4" HOSE BIB W/ VACUUM BREAKER
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<tr>
<td>1</td>
<td>SUBMERSIBLE PUMP, WITH CITY/TEST OF 120/240V APPROVED EQUAL, INCLUDED: 04 HP ELECTRIC MOTOR, JET OF SUBMERSIBLE CABLE, RAWING CABLE NON DISCHARGE CONNECTION, PUMP SUPPORT, LIFTING CHAIN, CATHODE PROTECTION AND ALL OTHER ITEMS INCLUDED IN PUMP REQUIREMENTS.</td>
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<td>HORIZONTAL SWING CHECK VALVE, 24&quot; B. FLANGED (DESIGN BASED ON D.I. EPOXY COATED MUeller MODEl BODY OR APPROVED EQUIVALENT).</td>
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<td>7</td>
<td>RECESSED BODY GATE VALVE, 24&quot; B. DESIGN BASED ON D.I. EPOXY COATED MUeller MODEl BODY, 4-2500 PSI APPROVED EQUIVALENT.</td>
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<td>CHAIN, STAINLESS STEEL</td>
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<td>ANGLE FRAME, HEAVY DUTY DOOR, GALVANIZED STEEL SLAB OPENING, 20-20 LOADING, US FOUNDRY TYPE AND/ OR APPROVED EQUIVALENT, OR 3-25</td>
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<td>ANGLE FRAME, HEAVY DUTY DOOR, GALVANIZED STEEL SLAB OPENING 5' 0&quot; X 7' 0&quot; X 60 (GADIN), US FOUNDRY TYPE AND/ OR APPROVED EQUIVALENT, OR 3-25</td>
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<td>6&quot; CAN LOCK EMERGENCY PUMP OUT</td>
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<td>6&quot; DIP. WITH CHECK VALVE EPOXY COATED</td>
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<td>6&quot; PVC DRAIN WITH CHECK VALVE SUPP TO WET WELL</td>
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<td>15</td>
<td>STEEL SADDLE SUPPORT &quot;ET&quot; MO&quot;D&quot;L &quot;S&quot;-&quot;B&quot; OR APPROVED EQUIVALENT</td>
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<td>16</td>
<td>30&quot; B. OPENING</td>
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<td>17</td>
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<td>18</td>
<td>CONCRETE TRUST BLOCK</td>
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M.J. = MECHANICAL JOINT

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REVISIONS

DATE | DESCRIPTION | DATE | DESCRIPTION
--- | --- | --- | ---

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CITY OF MIAMI
MARY BICKELL VILLAGE DRAINAGE AND SEWER IMPROVEMENTS - PHASE II
STREET IMPROVEMENTS

DEVELOPMENT NO: 11-01-006
CITY OF MIAMI PROJECT NO: 11-01-006

PUMP STATION BILL OF MATERIALS

SHEET NO. 12

FRANCISCO J. ALONSO
No. 69918
PROFESSIONAL ENGINEER
SEQUENCE OF OPERATIONS:
1. When water level rises above lead float switch the lead pump, as determined by alternator, will start.
2. If water level continues to rise above the lag float switch the lag pump, as determined by alternator, will start.
3. All running pumps will shut off simultaneously as the low level falls below the low level float switch.
4. The low-low level float switch will shut-off the pumps if the low level switch were to fail stuck closed.
5. Adjustable lag delay relays would prevent all pumps to re-start simultaneously following a temporary loss of power with the water level past the lead float switch.
6. Additional system protection provided includes thermal overload protection, seal failure indication, and solid state soft starter are shunted out in case of a starter failure.

PUMP STATION WIRING DIAGRAM
FOR ILLUSTRATIVE PURPOSES ONLY

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CITY OF MIAMI
DRAINAGE AND BROADWAY WINDMILL - PHASE II
2601 S.W. 6 ST STREET / MIAMI, FL 33129
Muhlack & Associates, Inc.

REV. 00 4-13-92
GENERAL NOTES:

A. GENERAL NOTES
1. THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE, DADE COUNTY EDITION AND ALL APPLICABLE FEDERAL STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, DADE COUNTY EDITION, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
3. SAFETY AND COMPLIANCE WITH OSHA AND LABOR LAWS IS THE ABSOLUTE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THOSE CONSULTANTS HE HIRES TO ADDRESS THESE MATTERS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
5. THE CONTRACTOR SHALL COMPLY WITH THE DRAWINGS. ANY DEVIATIONS MUST BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL.
6. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITIES FROM ALL DAMAGE.
7. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS. CONTRACTOR TO COORDINATE ALL PIPE AND CONDUIT LOCATIONS THRU CONCRETE. DISCREPANCI SE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
8. THE STRUCTURES SHOWN IN THESE DRAWINGS ARE STRUCTURALLY SOUND ONLY AS SHOWN IN THEIR COMPLETED FORM. THE CONTRACTOR SHALL USE ADEQUATE TEMPORARY SHORING AND BRACING TO SUPPORT FORMS, CONCRETE, STEEL, WOOD, AND MASONRY, TO BE ABLE TO RESIST ALL GRAVITY, EARTH, WIND, AND CONSTRUCTION LOADS DURING CONSTRUCTION. GENERAL NOTES 2 AND 3 ABOVE SHALL ALSO APPLY TO SHORING AND BRACING. ALL SHORING AND BRACING SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS FOR ALL PUMP STATIONS AND CONTROL VALVE VAYS SHOWING ALL REINFORCING BARS INDICATING SIZE AND SPACING.
10. NOTED AND COMPUTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALLED DIMENSIONS.
11. HATCHES FOR PUMP STATIONS AND CONTROL VALVE VAYS SHALL HAVE THE REQUIRED CLEAR OPENINGS SHOWN IN THE DRAWINGS. HATCHES SHALL BE OF U.S.F. FABRICATION, INC. APPROVED EQUAL. HATCHES SHALL BE EQUIPPED WITH RECESSED PADDOCK BOX AND SPRINGS FOR EASY OPENING. HATCHES SHALL BE DESIGNED FOR HS 20 LOAD. CONTRACTOR SHALL PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS FOR EACH TYPE OF HATCH. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.
13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FLUTATION OF THE STRUCTURES UNTIL COMPLETED AND AFTER ALL BACKFILL IS IN PLACE AND HAS BEEN COMPACTED.
14. CONTRACTOR MAY PROPOSE PRECAST ALTERNATES TO CAST-IN-PLACE STRUCTURES. DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL.
15. BACKFILL AROUND BOXES SHALL BE PLACED IN UNIFORM LIFTS OF 6" MAX. AROUND THE STRUCTURE AND EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASHST T-180. CONSTRUCTION SHALL BE PERFORMED USING HAND OPERATED MECHANICAL COMPACTORS ALONG THE LIFT TO WATER SETTLE. THE SITE SHALL CONTINUE TO BE DEWATERED UNTIL BACKFILLING IS COMPLETE.

B. CONCRETE
1. ALL CONCRETE WORK SHALL CONFORM TO ACI 308 AND FLORIDA BUILDING CODE REQUIREMENTS.
2. ALL REINFORCED CONCRETE SHALL HAVE A MINIMUM DESIGN COMpressive STRENGTH OF 5000 PSI AT 28 DAYS.
3. ALL CONCRETE EXPOSED SURFACE SHALL RECEIVE A CLASS S FINISH.
4. ALL STRUCTURAL CONCRETE MUST BE AIR ENTRAINED; PROVIDE AN AIR CONTENT OF 4% TO 6% BY VOLUME. AIR ENTRAINING ADJUVANT SHALL CONFORM TO A.S.T.M. C-260.
5. CALCIUM CHLORIDE OR ADJUVANTS CONTAINING CHLORIDE SALTS ARE NOT PERMITTED IN CONCRETE.
6. CONCRETE SHALL HAVE A MAXIMUM SUMP OF 4-INCH AND ALL CONCRETE SHALL BE PROPERLY MOIST CURED IMMEDIATELY AFTER FINISHING.
7. CHAMFER ALL EXPOSED CONCRETE EDGES ½ INCH.
8. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 60. MINIMUM LAP SPACES SHALL BE 40 BARS DIAMETERS UNLESS NOTED OTHERWISE U.W.O.D.
9. PLACING OF REINFORCEMENT SHALL COMPLY WITH REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE FOR STRUCTURAL CONCRETE, ACI-308.
10. ALL BAR BENDS AND Hooks SHALL COMPLY WITH REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE FOR STRUCTURAL CONCRETE, ACI-308.
11. CONCRETE REINFORCEMENT COVER SHALL BE AS FOLLOWS U.W.O.D.:
   - CONCRETE CAST AGAINST THE GROUND 3 INCHES FORMED CONCRETE IN CONTACT WITH GROUND 2 INCHES OF GRADE (TOP) 1½ INCHES ON GRADE (BOTTOM) 2 INCHES OF BEAMS AND COLUMNS 1½ INCHES.

C. ALUMINUM
1. ALUMINUM EMBEDDED IN CONCRETE MUST BE PAINTED WITH ONE SHOP COAT OF ZINCO CHROMATE FOLLOWED BY ONE HEAVY COAT OF ALUMINUM POWDERED PAINT. PAINT.
2. ALUMINUM SPARKS IN CONTACT WITH CONCRETE MUST BE SEPARATED BY A 1½" THICK NEOPRENE GASKET. IN ANY CASE WHERE TWO DIFFERENT METALS ARE TO BE IN CONTACT, A NEOPRENE GASKET MUST BE PROVIDED.

F. CONSTRUCTION JOINTS
1. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED IN THESE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATION TO THOSE SHOWN IN THESE PLANS SHALL REQUIRE APPROVAL OF THE ENGINEER.

G. DESIGN CRITERIA AND LOADING REFERENCES
1. ACI 350 R ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES.
2. ACI 308-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. FLORIDA BUILDING CODE.
PUMP STATION WET WELL - BOTTOM SLAB PLAN
REINFORCEMENT

#8 @ 6" (Top)
#5 @ 6" (Bottom)
(Outer Layer)

#5 @ 6" x 21'-6" Long (Top)

Waffle Wall Outline (Above)

Wall Outline (Above)

NOTES:

1. For Section E-D, see Sheet No. 17
2. For Section E-D, see Sheet No. 24
3. For Section E-D, see Sheet No. 21
4. For Section E-D, see Sheet No. 22

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CITY OF MIAMI

REVISIONS
DATE DESCRIPTION

Sheet No. 20

DRAWN BY:  PRINTED BY:  CHECKED BY:  DRAWN BY:  PRINTED BY:  CHECKED BY:

CITY OF MIAMI PROJECT NUMBER: W-1577

201 ALHAMBRA CIRCLE SUITE 900
Coral Gables, Florida 33134
Phone: 305/667-1888 Fax: 305/667-1771

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CONSTRUCTION NOTES:

1. The Typical Section During Construction Shown Below Is Provided For Illustration Purposes Only.

2. The Contractor Shall Submit To The Engineer For His Approval: Method Of Placement Of Temporary Sheet Piling, Including Placing Sequence, Piling Type, Section, Depth Of Penetration, Depth Of Trench, Concrete And Calculations Which Demonstrate Stability Of Sheet, Signed And Sealed By A Professional Engineer Licensed In The State Of Florida.

3. For Purposes Of Design The Water Table Shall Be Assumed To Be At Elevation + 1.50, The Contractor Shall Determine The Existing Water Table At The Time Of Construction And Take Whatever Measures Are Required If A Higher Water Table Exists At No Increase To The Contract Cost.

ADDITIONAL REINFORCEMENT
AT OPENINGS

(Typical for All Drainage Structures)

1. Provide Extra Reinforcement each side of each opening at 3” maximum spacing equal to half the area of the Reinforcement removed by the Opening, as shown in the Detail.

2. Provide Diagonal Reinforcement in the form of 2x5 bars at 3” maximum spacing on each side of opening as shown in the Detail.

3. This Detail applies to Wall and Top slab openings.

SLAB TO WALL DETAIL

TYPICAL SECTION DURING CONSTRUCTION

TYPICAL WALL CORNER DETAIL
(Vertical Reinforcement Not Shown)
STORM WATER POLLUTION PREVENTION PRACTICES (FOR PROJECTS OF 1 ACRE OR MORE):

1. TRENCH PROTECTION AND PKING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND PER OR TREE ORDINANCE HERE.

2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PLANNED WITH RESPECT TO MINIMIZING EROSION PROBLEMS. PROBLEMS OF THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, AND THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. THE PLANS MUST BE APPROVED BY THE CITY OF MIAMI, DEPARTMENT OF PUBLIC WORKS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL AREAS, LANDSCAPING OR STRUCTURAL STABILITY, OR CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. ALL ENTRANCES ARE ALSO TO BE PROTECTED FROM EROSION AS DETAILED ON SHEET 2 OF 4 OF WSD-88-6.

4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH SWPPP REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.

5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.

6. ANY DAMAGES OR DEFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE CONTRACTOR MAY SPECIFY OTHER AREAS AS NECESSARY.

7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM DAMAGE. INLETS WITHIN THE PROJECT ARE COMPLETE, EXCAVATION OF DREDGING DITCHES, DITCH BASEMEN SHALL NOT BE WIDER THAN INLET DITCH BASEMEN. DITCHES SHALL BE INSTALLED AROUND INLET TOPS. COMPLETED INLETS IN PAIRED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEAWATER INFLUX.

8. CRIP INLETS ALSO SHALL BE PROTECTED FROM SEAWATER INFLOW UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLETS, SHALL BE COVERED WITH EROSION CONTROL MATING WITHOUT OUTER LIMITS PROTECTED BY ROCK BAGS.

9. STOCKPILED MATERIALS WITHIN THE PROJECT LIMITS, UNLESS PROVIDED WITH COVER OR ROCK BAGS.

10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.

11. ANY OFFSITE SEWER DISCHARGE TO A SEWER SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED. REFERENCE TO THE DEPARTMENT OF PUBLIC WORKS "BULLETIN" No. 25.

12. THE USE OF SANITARY SEwers, SEwAGE DRAIN DITCHES AND/or ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.

13. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25. DEPARTMENT OF PUBLIC WORKS REGULATIONS.

14. STORM WATER EROSION AND SEWAGE CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY'S SEPARATE STORM SEWAGE SYSTEM WEAP. THE CONTRACTOR SHALL REQUEST THE CITY OF MIAMI, DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR SWPPP PERMIT AND/OR A NA TURAL POLLUTION AND DISCHARGE EROSION CONTROL SYSTEM IN WRITING BEFORE CONSTRUCTION.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

EROSION & SEWER CONTROL STABILIZATION PRACTICES:

- TEMPORARY STABILIZATION
- PERMANENT HEDGE, SEEDING OR SEED & WOOL
- PERMANENT PLANTING, SEEDING OR SEED & WOOL
- ARTIFICIAL SEEDS
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES
- OTHER

STRUCTURAL PRACTICES:

- SAND BANDING
- UNDERGROUND FABRIC PLACED BY SLIDING AND LIGHTLY COMPACTED ALONG UPSTREAM FACES OF BAILS.

NOTE: BAILS TO BE STAKED AT THE DIRECTION OF THE ENGINEER.

A. THE FOLLOWING NARRATIVE AND REFERENCED DOCUMENTS
B. THE APPROVED EROSION AND SEDIMENT CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 04, ISSUED BY THE CITY OF MIAMI FOR BULLETIN NO. 29, MUST BE KEPT ON-SITE.
C. REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1. DESCRIPTION OF CONSTRUCTION ACTIVITY:

THE PLAN PERMITTED IN THIS SWMP IS FOR CONSTRUCTION ACTIVITIES WITHIN 300 FT. ACRE BETWEEN 8TH ST. AND 8TH ST. AND 8TH ST. THE PROJECT INVOVES INSTALLATION OF A NEW SWAMP WATER PUMP STATION, DRAINAGE IMPROVEMENTS AND ROADWAY RESTORATION.

2. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEQUENCE OF EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A SEQUENTIAL SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DEPICTED BELOW,UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS THE EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPNG SEDIMENT AND IS APPROVED BY THE ENGINEER.

INSTALL PERMANENT AND TEMPORARY SEDIMENT CONTROLS AFTER CLEAING AND DRAINAGE IMPROVEMENTS BUT BEFORE INSTALLATION OF DRAINAGE CONTROL. INSTALL PERMANENT AND TEMPORARY SEDIMENT CONTROLS AFTER CLEAING AND DRAINAGE IMPROVEMENTS BUT BEFORE INSTALLATION OF DRAINAGE CONTROL. INSTALL PERMANENT AND TEMPORARY SEDIMENT CONTROLS AFTER CLEAING AND DRAINAGE IMPROVEMENTS BUT BEFORE INSTALLATION OF DRAINAGE CONTROL. INSTALL PERMANENT AND TEMPORARY SEDIMENT CONTROLS AFTER CLEAING AND DRAINAGE IMPROVEMENTS BUT BEFORE INSTALLATION OF DRAINAGE CONTROL. INSTALL PERMANENT AND TEMPORARY SEDIMENT CONTROLS AFTER CLEAING AND DRAINAGE IMPROVEMENTS BUT BEFORE INSTALLATION OF DRAINAGE CONTROL.

3. AREA ESTIMATES:

TOTAL PROJECT AREA: 44 ACRES
TOTAL AREA TO BE DISTURBED: 330 ACRES

4. RUNOFF DATA:

Runoff Coefficients:
Before Construction: 0.30
During Construction: 0.30
After Construction: 0.30

5. SITE IMPACT:


DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAP INCLUDED IN THE DRAINAGE REPORT. THE FLOW ARROWS REPRESENT THE FLOW DIRECTION.

APPROPRIATE SIZING: THE PLAN MATERIALS WAS A 2 X 2 TYPICAL CROSS SECTION AS INDICATED ON THE TYPICAL SECTION.

AREAS OF SOIL DISTURBANCE: THE LIMITS OF ALL SOIL DISTURBANCE ARE SHOWN ON THE TYPICAL SECTION SHEETS AND PLANS SHEETS.

AREAS NOT TO BE DISTURBED: THE TOTAL PROJECT AREA TO BE DISTURBED IS IDENTIFIED ON THE SITE MAP.

LOCATIONS OF TEMPORARY CONTROLS: ROCK BAGS WILL BE LOCATED ON ALL EXISTING AND PROPOSED MULTIS, TURBIDITY BARRIERS WILL BE LOCATED AT ALL SOURCES OF WATER AFFECTED BY THIS PROJECT.

LOCATIONS OF PERMANENT CONTROLS: PERMANENT FEATURES ARE SHOWN ON THE TYPICAL SITE SHEETS AND PLANS SHEETS ON THE BASIS OF WATER ACKNOWLEDGED BY THIS PROJECT.

SURFACE WATER W/OUT: WETLANDS ARE: NO

AREAS TO BE STABILIZED W/OUT: WETLANDS ARE: NO

6. 2.0 CONTROLS:

2.0.1 EROSION AND SEDIMENT CONTROLS:


The following stops will be utilized in the plan to control erosion and loss of sediments:

• PERMANENT SEDIMENT CONTROLS IN ACCORDANCE WITH SEASONAL VARIATIONS IN DRAINAGE ACTIVITY AND THE NEED FOR PROPER DRAINAGE OF SOIL FROM THE SITE TO THE CANYON.

2.0.2 SEDIMENT AND EROSION CONTROL PLAN:

IN THE SEQUENCE OF EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE SEDIMENT AND EROSION CONTROLS PROPOSED TO CONTROL SEDIMENT AND EROSION TO ENSURE MINIMUM IMPACT ARE района ARTIFICIAL SOILS AND MEANING THERMAL LOSS AS SOON AS PRACTICAL, BUT NOT MORE THAN 30 DAYS FROM THE DATE OF COMPLETION OF THE PROJECT.

2.0.3 STABILIZATION TECHNIQUES:

IN THE SEQUENCE OF EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION TECHNIQUES PROPOSED TO CONTROL SEDIMENT AND EROSION TO ENSURE MINIMUM IMPACT ARE района ARTIFICIAL SOILS AS SOON AS PRACTICAL, BUT NOT MORE THAN 30 DAYS FROM THE DATE OF COMPLETION OF THE PROJECT.

2.0.4 SEDIMENT CONTROL:

IN THE SEQUENCE OF EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE SEDIMENT AND EROSION CONTROLS PROPOSED TO CONTROL SEDIMENT AND EROSION TO ENSURE MINIMUM IMPACT ARE района ARTIFICIAL SOILS AS SOON AS PRACTICAL, BUT NOT MORE THAN 30 DAYS FROM THE DATE OF COMPLETION OF THE PROJECT.

2.0.5 TURBIDITY BARRIER:

IN THE SEQUENCE OF EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE SEDIMENT AND EROSION CONTROLS PROPOSED TO CONTROL SEDIMENT AND EROSION TO ENSURE MINIMUM IMPACT ARE района ARTIFICIAL SOILS AS SOON AS PRACTICAL, BUT NOT MORE THAN 30 DAYS FROM THE DATE OF COMPLETION OF THE PROJECT.

2.0.6 DRAINAGE MANAGEMENT:

DRAINAGE PATTERNS AND DIVIDES ARE INCLUDE IN THE DRAINAGE MAP INCLUD IN THE DRAINAGE REPORT. DRAINAGE WASTE IS CAPTURED BY PROPOSED MULTIS AND RETURN TO INFLATION TRENDS.

2.0.7 OTHER CONTROLS:

THE CONTRACTOR SHALL PROVIDE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, TIDY, AND PROPER CONSTRUCTION SITE. THE CONTRACTOR SHALL PROVIDE ALL PROPER METHODS TO PREVENT THE SPILLAGE OF SEDIMENT CONTROLS, INCLUDING DUMP MATERIALS, THE PROPOSED METHODS WILL BE APPROVED BY THE ENGINEER.

2.0.8 EROSION CONTROL:

THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.

2.0.9 EROSION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.

2.0.10 OFF-SITE TRUCKING AND DIRT CONTROL:

THE CONTRACTOR SHALL PREPARE A WASTE COLLECTION PLAN TO COLLECT ALL EXCESS DIRT LOCATION WILL BE DETERMINED BY THE ENGINEER. THE VERIFIED DIRT IS COLLECTED AND TRANSPORTED TO THE PROJECT SITE.

2.0.11 TRANSPORTATION:

THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL NEEDED TO THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.
3.6.4 FERTILIZERS AND PESTICIDES: 
The application and handling of herbicides and pesticides shall be in accordance with the manufacturer's recommended methods and in accordance with foot standard specifications for storage and disposal. 

3.6.5 TOXIC/HAZARDOUS MATERIAL HANDLING: 
The contractor shall provide equipment necessary to contain and clean up spills of hazardous materials. Spilled hazardous materials shall be treated as hazardous waste. 

SALT: The contractor shall provide a project specific hazardous material spill control plan to address the handling of reprocessed and hazardous waste. The waste shall be disposed of at a facility approved by the Florida Department of Environmental Protection. 

TOXIC/HAZARDOUS MATERIALS: 
Exposed construction debris shall be stored in designated areas with secondary containment. 

4.0 MAINTENANCE: 
In the section on erosion control plans, the contractor shall provide a plan for maintaining all erosion and sediment control. 

4.0 INSPECTIONS: 
Qualified personnel shall inspect all the control features at least one every 7 calendar days. 

5.0 NON-STORM WATER DISCHARGES: 
In the section on erosion control plans, the contractor shall provide the proposed measures to maintain the site. 

5.0 CONTRACTOR SUBMITTAL: 
It is the responsibility of the contractor to develop an erosion control plan that provides for the management of all erosion and sediment controls, BMP's and measures that will be implemented at the construction site. 

6.0 COMPLIANCE AND BREACHES: 
The contractor shall be responsible for ensuring the following items are on site: 

7.0 POLLUTION PREVENTION: 
The contractor shall implement the stormwater pollution prevention plan on site. 

8.0STORMWATER POLLUTION PREVENTION PLAN: 
The contractor shall submit a stormwater pollution prevention plan.
MAINTENANCE OF TRAFFIC NOTES:

GENERAL NOTES:

1. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL USER AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

2. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE THE EXISTING POSTED SPEED.

3. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL OVERLAY WORK ZONE SIGNS WHEN CONDITIONS REASONABLY WARRANT THEIR USE. COST OF OVERLAYING AND UNDERLACING THE SIGNS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

4. CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY OVERLAYING OR UNDERLACING AND RESTORING THE SIGNS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

5. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE REMOVED AND RETAIRED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RETAILING AND RESTORING THE SIGNS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC THROUGH THE WORK ZONE IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE DEEMED INCIDENTAL TO THE PROJECT COSTS.

7. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH THE MOE 600 SERIES.

8. ALL WORK SHALL BE PERFORMED DURING DAYTIME ONLY. NO WORK TO BE PERFORMED WITHOUT PROPER WARNING OF TRAFFIC IS PERMITTED.

9. NOTIFICATION OF LAKE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPANYING IN WORKING DAYS PRIOR TO CLOSED, DETOUR OR PHASE CHANGE OF SUBMITTING THE REQUESTED LAKE CLOSURE FORM, SKETCHES, CALCULATIONS AND OTHER DATA THROUGH THE ENGINEER TO THE CITY OF MIAMI.

10. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOURS IN ACCORDANCE WITH SECTION 336.02 OF FIERA STATUTES.

11. AT THE DISCRETION OF THE ENGINEER, IF A LAKE CLOSURE CAUSES EXTENDED CONGESTION OR DELAYS, THE CONTRACTOR SHALL BE REQUIRED TO REOPEN THE CLOSED LAKE UNLESS SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.

12. CONTRACTOR SHALL PROVIDE FLASHER ARM BOARD FOR ANY LAKE THAT IS CLOSED OR DETAINED.

13. CONTRACTOR SHALL PROVIDE SIGNS AND BARREIURES AS REQUIRED AT ALL OTHER TRAFFIC CONTROL DEVICES USED ON THIS PROJECT AND SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS. ALL SIGNS AND BARREIURES MENTIONED IN THE CONTRACT SHALL BE INCLUDED IN THE PAY ITEM K2-1, "MAINTENANCE OF TRAFFIC".

14. CONTRACTOR SHALL CONTACT MIAMI-DADE TRANSIT (MOT) AND REQUEST A SPOTTER FOR ANY WORK WITHIN 30' OF ANY MOT FACILITY. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE PAY ITEM K2-1, "MAINTENANCE OF TRAFFIC".

15. CONTRACTOR SHALL HAVE A TRAFFIC CONTROL OFFICER ON-SITE DURING ALL CONSTRUCTION ACTIVITIES. COST OF THIS SERVICE SHALL BE INCLUDED IN THE PAY ITEM K2-1, "TRAFFIC CONTROL OFFICER".

DROP OFFS:

5. THE CONTRACTOR SHALL INSTALL THE WORK ZONE WITH SIGNS APPRORIATED BY THE CITY OF MIAMI-FIELD ENGINEER WHEN DROP OFFS EXCEED 75 FEET IN DIAGONAL TO TRAVEL WAYS.

MARKINGS:

10. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAINT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS AS DESIGNATED BY THE ENGINEER. PAINT MARKINGS SHALL BE REPLACED AT THE TIME TRAFFIC CONTROL PLAN ARE NO LONGER AFFECTED BY THEIR POSITION. COST OF REMOVAL AND REPLACEMENT OF PAINT MARKINGS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAINT MARKINGS IS PROHIBITED.

SIGNALS:

6. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY AND CITY OF MIAMI-DADE OF LAKE CLOSURES OR TEMPORARY SIGNALS WITHIN THE PROJECT LIMITS. COST OF RETAILING TRAFFIC SIGNAL HEADS, PRIMORDING AND REPAIRING TEMPORARY SIGNALS AND CONNECTORS AND MAINTAINING THE EXISTING TRAFFIC SIGNALS AND CONNECTORS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

9. THE CONTRACTOR SHALL MAINTAIN ONLINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALS VIA INTERCONNECT OR PHONE OR SIGNAL CONSTRUCTION CONTRACTORS SHALL PROVIDE TEMPORARY LIMITS AND CONNECTIONS OF NECESSARY COSTS OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTORS SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

PEDESTRIANS, BICYCLES, AND WHEELOHARS:

14. AT THE END OF EACH WORK Shift OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFFS ADJACENT TO THE PEDESTRIANS, BICYCLES, AND WHEELOHARS TRAVEL WAYS SHALL BE SHOVELLED FLUSH WITH THE ROADWAY OR PROTECTED WITH BARREIURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE WORK ZONE AT NO ADDITIONAL COST TO THE CONTRACT.

15. PEDESTRIANS, BICYCLES, AND WHEELOHARS TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED MARKING (LINES, GRAPHIC LINES, AND CHAINLINK GARDS) OR ANY DEVICE THAT IS NOT HAZARDOUS. IT SHOULD BE GAINED AS NECESSARY FOR CONTINUITY TO COSTRUCTION AND MAINTAIN THE TRAFFIC PATH AS REQUIRED SHALL BE INCURRED TO THE PROJECT AT NO ADDITIONAL COST TO THE CONTRACT.

REVISIONS

DATE: DESCRIPTION

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Coral Gables, Florida, 33134
Phone: 305-567-1661
Fax: 305-567-1771

CITY OF MIAMI
DRIVEWAYS AND ROADSIDE IMPROVEMENTS
PHASE II
STORMWATER PUMP STATION
1106 SOUTH STREET MIAMI, FL 33130

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