# TOWN OF MEDLEY WATER AND SEWER UTILITIES DEPARTMENT 10776 NW SOUTH RIVER DRIVE, MEDLEY, FLORIDA 33178

# LAKEVIEW DISTRICT UTILITY CROSSINGS CIP PROJECT No. WS-0110 BID PLANS

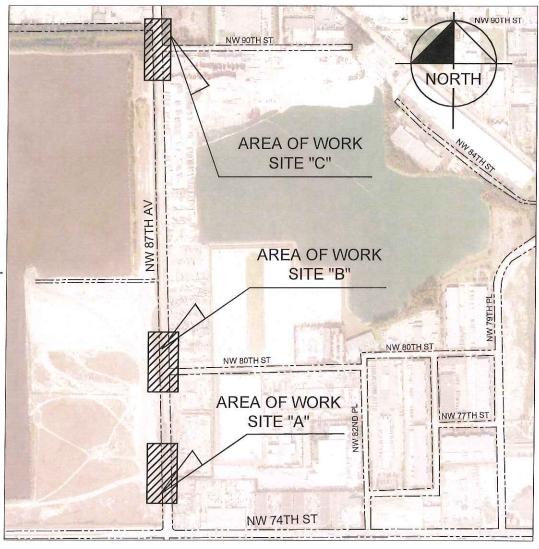


### TOWN COUNCIL:

ROBERTO MARTELL, MAYOR
JACK MORROW, VICE—MAYOR
EDGAR AYALA
GRISELIA DIGIACOMO
SUSANA GUASCH

## WATER AND SEWER UTILITIES ADMINISTRATION:

JORGE C. SOTO, UTILITIES DIRECTOR JORGE E. CORZO, PE, CFM, TOWN ENGINEER ROY DANZIGER, FINANCE DIRECTOR



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CHEET INDEV

NO 73898

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# PROJECT LOCATION MAP

UTILITY CROSSINGS (NW 87TH AVENUE)
A PORTION OF SEC. 09 & SEC. 10 - TWP. 53 S. - RGE. 40 E.

GRAPHIC SCALE IN FEET 500 1000 2000



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

CONSTRUCTION
CONSTRUCTION
No. REVISIONS

SIGNATION HOLES NAME ASSOCIATES, INC.
221 BRICKEL AND INC. 304-3025
WWW.KMALEY-HORGOM. 6A, DODGOSS

BARTON J. FYE FLORIDA LICENSE NUMBER 73898

FEB 2016
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SIGNED BY BJF R

COVER SHEET

EVIEW DISTRICT
LITY CROSSINGS
PREPARED FOR
OWN OF MEDLEY

SHEET NUMBER

#### LEGEND A - € ------CENTERLINE ----R/VV----RIGHT-OF-WAY LINE ---- 12-IN WM-EXIST, 12" WATER MAIN ----EX FM -EXIST, FORCE MAIN ---- storm -EXIST. STORM PIPE ——— GAS ———EXIST. GAS MAIN -----com ---EXIST. BURIED COMMUNICATIONS - - OUL- - EXIST. OVERHEAD UTILITY LINE BUTT.V. BUTTERFLY VALVE CEI/C.E.I. CONSTRUCTION ENGINEERING INSPECTOR DIP /D.I.P. DUCTLE IRON PIPE EAST FLEC. FLECTRICAL ELEV./EL. **FI EVATION** EOR/E.O.R. ENGINEER OF RECORD FXIST. **EXISTING FDOT** FLORIDA DEPARTMENT OF TRANSPORTATION FM/F.M. FORCE MAIN (SEWER) FPI. FLORIDA POWER & LIGHT FV0/F.V.O. FLUSHING VALVE OUTLET GV/G.V. GATE VALVE INV. INVERT LF/L.F. LINEAR FEET LT LEFT (OFFSET) MDWASD MIAMI-DADE WATER AND SEWER DEPARTMENT MAX. MAXIMUM MH/M.H. MANHOLE MIN. MINIMUM NORTH NO./No. NUMBER OFF. OFFSET PROP. PROPOSED PVC/P.V.C. POLYVINYL CHLORIDE REST. J. RESTRAINED JOINT RT RIGHT (OFFSET) SOUTH SAN. SANITARY SEWER (GRAVITY)



STATION

VERTICAL

WEST

TOP OF PIPE

WATER MAIN

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T.O.P.

VERT.

WM/W.M.

#### GENERAL NOTES

- EXISTING CONDITIONS SHOWN BASED ON SURVEY DATED JULY 23, 2015 AND PREPARED BY HADONNE LAND SURVEYORS AND MAPPERS, AND UNDERGROUND UTILITY INFORMATION PROVIDED BY:
- FLORIDA CITY GAS

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- AT&T/DISTRIBUTION TOWN OF MEDLEY
- MDC-PUBLIC WORKS DEPT.
- COMCAST MIAMI-DADE WATER AND SEWER DEPT.
- FUTURE ROADWAY AND UTILITY IMPROVEMENTS SHOWN ON PLANS FOR REFERENCE ONLY. IMPROVEMENTS SHOWN ARE BASED ON PLANS FOR THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID 405615-3-52-01 &, 405615-4-52-01, PREPARED BY R.J. BEHAR & COMPANY, INC. DATED OCTOBER 19, 2015 & FINANCIAL PROJECT ID 405615-3-56-01 AND A&P CONSULTING TRANSPORTATION ENGINEERS CORP. DATED JANUARY 29, 2016.
- CONTRACTOR SHALL CONSTRUCT ALL PROPOSED PIPE AS SHOWN IN THE PLANS UNLESS APPROVED IN A FORMAL RESPONSE TO A REQUEST FOR INFORMATION BY THE TOWN AND EOR.

#### GENERAL WATER NOTES

- THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 TWO FULL BUSINESS DAYS BEFORE DIGGING AND THE FOLLOWING UTILITY COMPANIES SHOULD BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION IN AREA:
- TOWN OF MEDLEY
- FLORIDA CITY GAS - MDC-PUBLIC WORKS DEPT.
- AT&T /DISTRIBUTION

- MIAMI-DADE WATER AND SEWER DEPT.
- 2. UNLESS OTHERWISE NOTED, ALL WORK SHALL COMPLY WITH MIAMI-DADE WATER AND SEWER DEPARTMENT (MDWASD) DONATION STANDARD SPECIFICATIONS AND DETAILS FOR DESIGN AND CONSTRUCTION.
- 3. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUST.
- 4. ALL PIPES, JOINTS, AND FITTINGS SHALL BE MECHANICALLY RESTRAINED THROUGHOUT UNLESS OTHERWISE NOTED.
- CUTTING AND PLUGGING OF EXISTING MAINS SHALL BE ACCOMPLISHED BY MECHANICALLY RESTRAINING THE PLUG OR CAP. SUFFICIENT LENGTH OF PIPE SHALL BE PROVIDED TO ENSURE THE STABILITY OF THE INSTALLATION.
- 6. STATIONING SHOWN IS ALONG THE BASELINE OF SURVEY. GRADING SHOWN IS ALONG THE PROPOSED PIPE ALIGNMENT.
- 7. EXACT LOCATIONS OF SERVICES TO BE DETERMINED IN THE FIELD.
- 8. FOR REQUIREMENTS FOR MECHANICAL THRUST RESTRAINT, SEE STANDARD DETAIL GS 2.0.
- 9. IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, STOP EXCAVATION WORK AND NOTIFY THE TOWN OF MEDLEY AND THE ENGINEER OR RECORD. EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1. ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL, DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.
- 10. ALL WATER PIPE AND FITTINGS INSTALLED UNDER THIS PROJECT MUST BE COLOR CODED WITH BLUE PAINT AS STATED IN THE FLORIDA ADMINISTRATIVE CODE, SUBPARAGRAPH 62-555.320(21)(B)3 AND AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. IF PAINT IS APPLIED DURING INSTALLATION OF THE PIPE, THE PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE ASIS OF THE PIPE AND THAT IS LOCATED ON THE TOP OF THE PIPE, FOR PIPES WITH AN INTERNAL DIAMETER OF 24-INCHES OR GREATER, PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- 11. USE CAUTION WHEN EXCAVATING AROUND UTILITIES PER SPECIFICATION SECTION 6.00.3.
- 12. PAVEMENT RESTORATION TO BE DONE IN ACCORDANCE WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT REQUIREMENTS
- 13. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY OF THE FACILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS TO FIELD VERIFY THE ELEVATION, TYPE OF PIPE AND LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE SAID CONFLICT. CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BY CALLING 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING
- 14. IN AREAS WHERE THE CONTRACTOR ELECTS TO PERFORM DEWATERING AS PART OF THE WORK, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS, SUBMIT AND OBTAIN ANY AND ALL REQUIRED DEWATERING/CONTAMINATION PERMIT APPROVALS (INCLUDING ANY ANCILLARY PERMITS THAT MAY BE REQUIRED, I.E. FROM R.E.R. WATER CONTROL OR POLLUTION CONTROL) PRIOR TO COMMENCING THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES AS REQUIRED BY THE MUNICIPALITY OR ANY OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEDING MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRUSION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PERMIT (GCP) AND A NOTICE OF INTENT (NOI) TO USE SAID GENERIC PERMIT AS PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. PURSUANT TO THE STATE'S FEDERALLY APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER REGULATORY PROGRAM (NPDES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS AND OBTAIN ALL REQUIRED APPROVALS PRIOR TO COMMENCEMENT OF THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE

#### THE FOLLOWING ARE REQUIREMENTS PER DEPARTMENT OF HEALTH

#### WATER MAIN HORIZONTAL SEPARATIONS

- SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE. BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER FORCE
- MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM. BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.
  GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE
- MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 ET. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.

  10 FT. OF ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL

#### WATER MAIN VERTICAL SEPARATIONS

- 6. SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES. OR AT LEAST 6 INCHES ABOVE. OR AT LEAST 12 INCHES IF BELOW.\*
  PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE
- MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR
- NOTE: CENTER 1 FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OF PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

#### TRENCH PROTECTION

TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS STANDARDS AND INTERPRETATIONS.

#### TOWN OF MEDLEY MEDLEY WATER AND SEWER NOTES

- CONTRACTOR MUST CALL MEDLEY UTILITIES DEPARTMENT INSPECTION DIVISION TO ARRANGE FOR A PERMIT AND PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO PROPOSED START OF CONSTRUCTION. (TELEPHONE NO. (305) 889-1915)
- 2. MEDLEY UTILITIES DEPARTMENT PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THIS DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
- WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE MEDLEY UTILITIES DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
- EASEMENTS, IF REQUIRED
- CONTRACTOR'S WAIVER AND RELEASE OF LIEN 3.2. 3.3.
- ABSOLUTE BILL OF SALE
- A CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT) 3.4. AS-BUILT DRAWNGS:
- 3.5.1. TWO 11" X 17" "AS-BUILT" DRAWINGS SHOWING SPECIFIC LOCATIONS, DEPTHS, ETC., OF ALL WATER FACILITIES AS LOCATED BY A LICENSED SURVEYOR WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR OR ENGINEER OF RECORD, AND ENDORSED BY THE CONTRACTOR.
- AN ELECTRONIC COPY IN PDF FORMAT OF THE SIGNED AND SEALED "AS-BUILT" DRAWINGS.
- AN ELECTRONIC COPY OF THE "AS-BUILT" DRAWINGS IN CAD (.DWG) FORMAT WITH ALL WATER FACILITIES LOCATED IN THE FLORIDA EAST FIPS 0901 STATE PLANE COORDINATE SYSTEM (NADR3)
- A GEOGRAPHIC INFORMATION SYSTEMS (GIS) FORMAT "AS-BUILT" (SHAPEFILE) OF THE IMPROVEMENTS USING THE SCHEMA PROVIDED BY THE MEDLEY UTILITIES DEPARTMENT. (TELEPHONE NO. (305) 889-1915)



business days before digging to have utilities located and marked.

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SHEET NUMBER C-002

Call 811 or www.sunshine811.com two full

Check positive response codes before you dig!

#### GENERAL SEWER NOTES

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- 1. THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 TWO FULL BUSINESS DAYS BEFORE DIGGING AND THE FOLLOWING UTILITY COMPANIES SHOULD BE NOTIFIED 48 HOURS IN ADVANCE OF EXCAVATION IN AREA:
  - TOWN OF MEDLEY
- FLORIDA CITY GAS - MDC-PUBLIC WORKS DEPT.
- AT&T/DISTRIBUTION

- MIAMI-DADE WATER AND SEWER DEPT.
- 2. UNLESS OTHERWISE NOTED, ALL WORK SHALL COMPLY WITH MIAMI-DADE WATER AND SEWER DEPARTMENT (MDWASD) DONATION STANDARD SPECIFICATIONS AND DETAILS FOR DESIGN AND CONSTRUCTION.
- 3. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUST,
- 4. ALL FORCE MAIN PIPES, JOINTS, AND FITTINGS SHALL BE MECHANICALLY RESTRAINED THROUGHOUT UNLESS OTHERWISE NOTED.
- 5. CUTTING AND PLUGGING OF EXISTING MAINS SHALL BE ACCOMPLISHED BY MECHANICALLY RESTRAINING THE PLUG OR CAP. SUFFICIENT LENGTH OF PIPE SHALL BE PROVIDED TO ENSURE THE STABILITY OF THE INSTALLATION.
- 6. STATIONING SHOWN IS ALONG THE BASELINE OF SURVEY. GRADING SHOWN IS ALONG THE PROPOSED ALIGNMENT.
- 7. FOR REQUIREMENTS FOR MECHANICAL THRUST RESTRAINT, SEE STANDARD DETAIL GS 2.0.
- 8. IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, STOP EXCAVATION WORK AND NOTIFY THE TOWN OF MEDLEY AND THE ENGINEER OF RECORD, EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1, ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL,DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.
- ALL SEWER MAIN INSTALLED UNDER THIS PROJECT MUST BE CLEARLY IDENTIFIED AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES 49.7. CONTRACTOR SHALL USE GREEN PAINT (Carboline, Color No. 2369) TO IDENTIFY FORCE MAINS. IF PAINT IS APPLIED DURING INSTALLATION OF THE PIPE, THE PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ON THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24-INCHES OR GREATER, PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE
- 10. USE CAUTION WHEN EXCAVATING AROUND UTILITIES PER SPECIFICATION SECTION 6.00.3.
- 11, PAVEMENT RESTORATION TO BE DONE IN ACCORDANCE WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT REQUIREMENTS
- 12. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY OF THE FACILITIES SHOWN OR NOT SHOWN. CONTRACTOR IS TO FIELD VERIFY THE ELEVATION, TYPE OF PIPE AND LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE SAID CONFLICT. CONTRACTOR TO NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BY CALLING 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING
- 13. IN AREAS WHERE THE CONTRACTOR ELECTS TO PERFORM DEWATERING AS PART OF THE WORK, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS, SUBMIT AND OBTAIN ANY AND ALL REQUIRED DEWATERING/CONTAMINATION PERMIT APPROVALS (INCLUDING ANY ANCILLARY PERMITS THAT MAY BE REQUIRED, I.E. FROM R.E.R. WATER CONTROL OR POLLUTION CONTROL) PRIOR TO COMMENCING THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR
- 14. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES AS REQUIRED BY THE MUNICIPALITY OR ANY OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRUSION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PERMIT (GCP) AND A NOTICE OF INTENT (NOI) TO USE SAID GENERIC PERMIT AS PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. PURSUANT TO THE STATE'S FEDERALLY APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER REGULATORY PROGRAM (NPDES). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE RELATED PROFESSIONAL SERVICES, PREPARE APPLICATION DOCUMENTS AND OBTAIN ALL REQUIRED APPROVALS PRIOR TO COMMENCEMENT OF THE WORK AND AT NO ADDITIONAL CONTRACT TIME OR COST TO THE DEPARTMENT



#### R.E.R. NOTES ON WATER-SEWER INSTALLATION

- 1. A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE). SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
- A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
- B) THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- C) THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- 2. A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THE DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM—TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
- A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
- B) THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- 3. IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING AND THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO SUBMITTAL OF DOCUMENTATION SHOWING THAT THE PROPOSED ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION
- 4. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR RESIDENTIAL LAND USE AND TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR NON-RESIDENTIAL LAND USE.
- 5. FORCE MAIN SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE EITHER DUCTILE IRON OR REINFORCED CONCRETE PRESSURE SEWER PIPES. FOR DUCTILE IRON PIPE EXFILTRATION RATE SHALL NOT BE GREATER THAN THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST
- FOR REINFORCED CONCRETE PRESSURE SANITARY SEWER EXFILTRATION RATE SHALL NOT BE GREATER THAN HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE
- 6. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- 7. ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER AND SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE WATER OF THE UTILITY
- 8. WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER FOLIPMENT EXCAVATION
- 9. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS, ANY DEVIATION FROM NOTES 6, 7 AND 8 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND
- 10. A NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL NUMBER OF OPERATING HOURS OF THE STATION.
- 11. IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY:
- A) ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES.
- B) IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700.
- C) IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL IS EXCAVATED DURING CONSTRUCTION, THEN THEY RÉQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE REQUIREMENTS BEYOND THOSE PROVIDED BY HEREIN, IF DISPOSAL WITHIN A MIAMI-DADE COUNTY OWNED LANDFILL (CLASS I LANDFILL) IS APPROPRIATE AND SELECTED, PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT AT (305) 594-1670 FOR INFORMATION.
- D) THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THE ORIGINAL EXCAVATION REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

Kimley» Horn 1221

> BARTON J.

Ш NOT ROJECT NO

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:VIEW DISTRICT ITY CROSSINGS P TOWN LAKEVI

SHEET NUMBER C-003

