



(NOT A PART OF M-DWSD NOTES OR APPROVAL) RER-DERM WATER-SEWER GENERAL NOTES

1. A final location of a line is not to be established until the contractor has been notified by the engineer that the location is acceptable. The contractor shall be responsible for obtaining all necessary permits and approvals for the proposed work. The contractor shall be responsible for obtaining all necessary permits and approvals for the proposed work. The contractor shall be responsible for obtaining all necessary permits and approvals for the proposed work.
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GENERAL UTILITY NOTES

1. SEE COVER SHEET FOR A LIST OF UTILITY COMPANIES.
2. GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION. ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
3. THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
4. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO NEW UTILITY LINES BEING INSTALLED. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR THE SITES CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
7. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE 4" ABOVE FINISHED GRADE (UNLESS NOTED OTHERWISE).
8. ALL MANHOLES CONSTRUCTED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING RINGS AND COVERS.
9. ALL CLEAN-OUTS WITHIN THE PAVED AREA SHALL BE INSTALLED WITH TRAFFIC BEARING PARTS AS APPLICABLE.
10. CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
11. ALL CONCRETE FOR ENGAGEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
12. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES SUCH AS CHECK VALVES, BACKFLOW PREVENTERS, ETC., AS REQUIRED BY GOVERNING AUTHORITIES.
13. ALL WATER, FORCE MAIN AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 3' OF COVER. THE MINIMUM COVER MAY BE REDUCED TO 2' WHEN NECESSARY.
14. CONTRACTOR SHALL COORDINATE INSPECTION ON ALL UTILITIES, WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES DURING INSTALLATION.
15. CONTRACTOR SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS.
16. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
17. ALL NECESSARY AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
18. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION WITH THE LATEST STANDARDS OF OSHA DIRECTIVE OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
19. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-86 LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
20. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
21. CONTRACTOR TO LOCATE LIGHT POLES AND FIXTURES AS INDICATED. CONTRACTOR TO BUILD NEW POLE BASE AND STUB CONDUIT AND WIRE AS NEEDED. SEE LIGHTING PLAN.
22. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.
23. ALL WATER MAINS, FIRE WATER MAINS AND SERVICES SHALL BE TESTED, APPROVED AND DISINFECTED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS PRIOR TO CONNECTION TO MUNICIPAL SYSTEM.
24. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS 6' (5' FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER OVER SEWER LINE IS (12) INCHES).
25. CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
26. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY PROVIDERS 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION.
27. PIPE CROSSING AT THIS LOCATION HAS BEEN CALCULATED TO BE LESS THAN 12" CLEARANCE. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO ENSURE JOINTS/BELLS DO NOT ALIGN VERTICALLY AT CROSSING POINT AND SAID JOINTS HAVE AT LEAST 2 FEET HORIZONTAL CLEARANCE FROM CROSSING POINT (SEE PIPE CROSSING DETAILS THIS SHEET).

UTILITY NOTES: (NOT PART OF M-DWSD NOTES NOR APPROVAL)

1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - 8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
 - 8" PVC SDR25 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
 - 8" PVC SCHEDULE 40
 - DUCTILE IRON PIPE PER AWWA C150
4. WATER LINES SHALL BE AS FOLLOWS:
 - 8" AND LARGER, PVC C-900 PER ASTM D 2241
 - CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
 - 8" AND LARGER DUCTILE IRON PIPE PER AWWA C100
 - SMALLER THAN 8" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 818.22 OR PVC 200 P.S.I. PER ASTM D1784 AND D2241.
5. MINIMUM TRENCH WIDTH SHALL BE 18" FEET
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
7. ALL UTILITIES SHOULD BE KEPT 18" (10" APART) (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4" COVER ON ALL WATER LINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21-11 (AWWA C-151) (CLASS S0).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
12. ALL CONCRETE FOR ENGAGEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
14. REFER TO INTERIOR PLUMBING DRAWINGS FOR THE IN-OF ALL UTILITIES.
15. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (ANY CITY) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.

STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION

DATE	REVISED BY	APPROVED BY
03/11/2009
07/27/2010

UTILITY CROSSING

DATE	REVISED BY	APPROVED BY
03/11/2009
07/27/2010

STANDARD DRAWING REQUIREMENTS

DATE	REVISED BY	APPROVED BY
03/11/2009
07/27/2010

gph
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SITE LOCATION

MIAMI, FLORIDA MIAMI-DADE COUNTY SECTION 18, TOWNSHIP 53 SOUTH, RANGE 40 EAST

HEALTH DEPARTMENT NOTES
SCALE: 1" = 300'
(NOT A PART OF M-DWSD NOTES OR APPROVAL)

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DESIGNED: I.G. DRAWN: J.C./I.G. CHECKED: J.L.J. JOB NO.: U1207 DATE: OCT / 2017 © 2010

COMPOSITE UTILITY PLAN

WAWA
3300 NW 87TH AVENUE
MIAMI, FLORIDA

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Always call 811 two full business days before you dig
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LEGEND

PER PUBLIC WORKS COMMENTS

Date	Revision	Per City Comments	Per Derm Comments	Per Public Works Comments
03/06/19	No			
01/08/19	No			
07/18/18	No			
06/21/18	No			

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No. C.8