

VILLAGE AT THE LAKES

TOWN OF MIAMI LAKES, FLORIDA SEC. 22, TWP. 52, RGE. 40

CIVIL PLANS

MARCH 2017

DRAWING INDEX	
Sheet Number	Sheet Title
C-0	COVER
S-1	SURVEY
C-1	SITE PLAN
C-2	FIRE ACCESS PLAN
C-3	WATER AND SEWER OVERALL PLAN
C-4	DOMESTIC, IRRIGATION AND FIRE PLAN
C-5	SANITARY LATERAL PLAN
C-6	WATER AND SEWER DETAILS
C-7	PAVING, GRADING AND DRAINAGE PLAN
C-8	PAVING, GRADING AND DRAINAGE DETAILS
C-9	PAVING, GRADING AND DRAINAGE DETAILS
C-10	PAVING, GRADING AND DRAINAGE SECTIONS
C-11	PAVING, GRADING AND DRAINAGE SECTIONS
C-12	PAVEMENT MARKING AND SIGNAGE
C-13	EROSION AND SEDIMENT CONTROL PLAN
C-14	EROSION AND SEDIMENT CONTROL DETAILS
C-15	EROSION AND SEDIMENT CONTROL DETAILS

* NOT PART OF M-DWASD APPROVAL

LEGAL DESCRIPTION:

A portion of Tracts 10, 11, and 12 in Section 22, Township 52 South, Range 40 East, CHAMBERS LAND COMPANY SUBDIVISION as recorded in Plat Book 2 of Page 68 of the Public Records of Miami-Dade County, Florida, being more particularly described as follows: Beginning at the most Eastern corner of the "MIAMI LAKES LAKESIDE CORPORATE CENTER", as recorded in Plat Book 150 of Page 96 of the Public Records of Miami-Dade County, Florida; thence North 42 degrees 29 minutes 17 seconds West along the Northerly boundary said Tract A for 339.77 feet; thence North 44 degrees 42 minutes 10 seconds West along the Northerly line of Tract "C" of the said plat of "MIAMI LAKES LAKESIDE CORPORATE CENTER" for 62.17 feet; thence North 6 degrees 46 minutes 44 seconds East for 181.82 feet; thence East for 568.02 feet to a point on the West right-of-way line of Commerce Way (Industrial Way) as shown on the plat of "MIAMI LAKES INDUSTRIAL PARK SECTION TEN" as recorded in Plat Book 118 of Page 33 of the Public Records of Miami-Dade County, Florida, said point bears South 77 degrees 35 minutes 24 seconds East from the following described circular curve; thence Southwesterly along a circular curve to the right, having for its elements a radius of 752.64 feet and a central angle of 35 degrees 06 minutes 07 seconds for an arc distance of 161.10 feet to the Point of Tangency; thence South 47 degrees 30 minutes 43 seconds West for 121.45 feet to the Point of Beginning, all lying and being in Miami-Dade County, Florida and containing 4.164 Acres more or less. (The last two courses being along the Westerly right-of-way line of Commerce Way (Industrial Way) as shown on the aforesaid plat of "MIAMI LAKES INDUSTRIAL PARK SECTION TEN".)

NOT PART OF M-DWASD NOTES NOR APPROVAL

FLOOD CRITERIA NOTES

PLEASE PRINT NAME AND TITLE
(NOT A PART OF M-DWASD NOTES NOR APPROVAL)

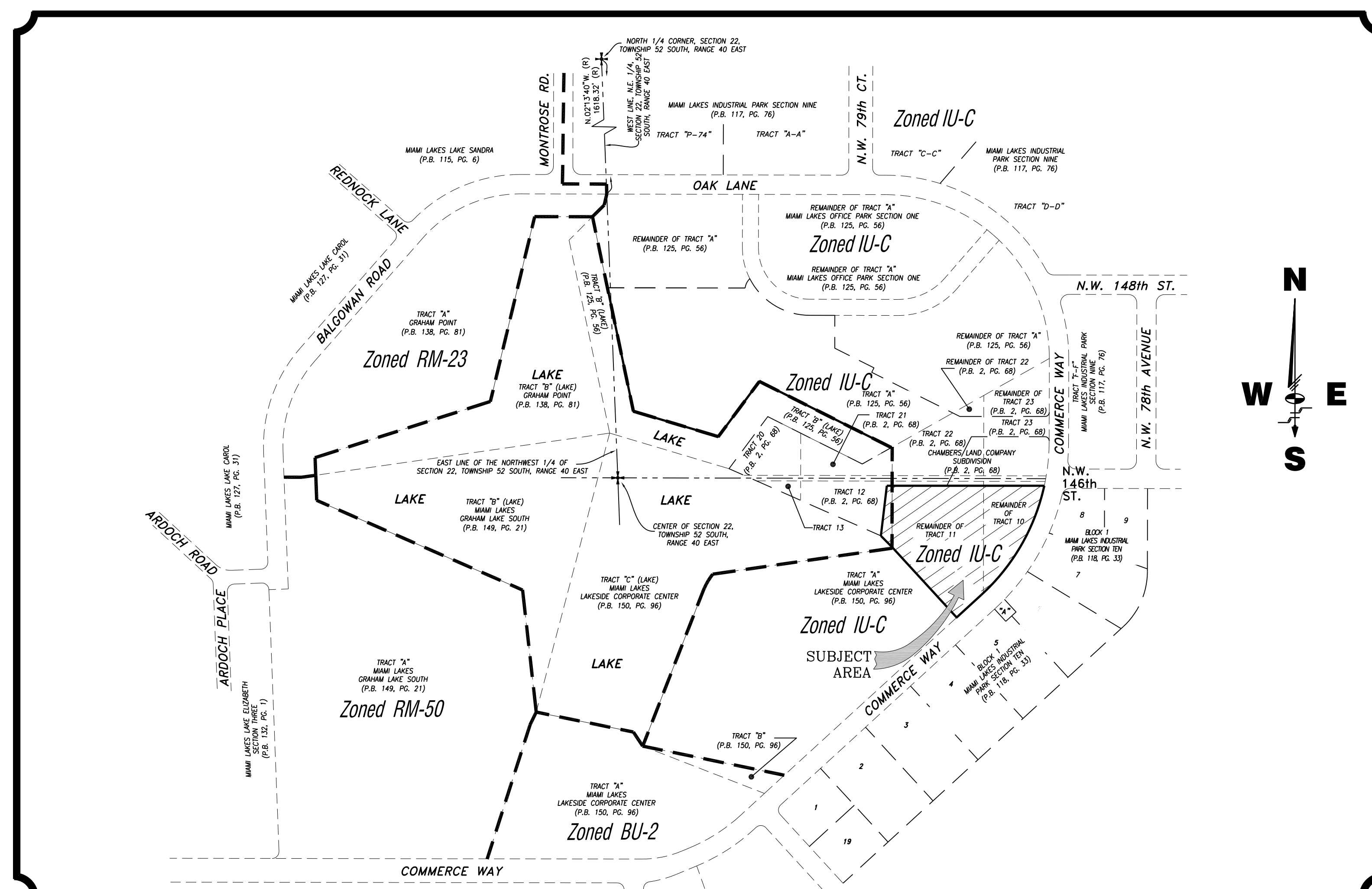
1. MIAMI-DADE COUNTY FLOOD CRITERIA = 6.60' N.G.V.D.

- 2.FEMA FLOOD ELEVATION = FLOOD ZONE AE 6.0 PER
COMMUNITY PANEL NO. 1206860112L MAP DATED ON
9/11/2009.

3. MIAMI-DADE COUNTY OCT. W.T. = 3.40' N.G.V.D.

Always call 811 two full business days before you dig

Sunshine811.com



LOCATION SKETCH

$$1'' = 300'$$

p r e p a r e d b y

SCHWEBKE-SHISKIN & ASSOCIATES, INC.

3240 CORPORATE WAY, MIRAMAR, FL. 33025


LAND PLANNERS – ENGINEERS – LAND SURVEYORS (LB & CA#87)

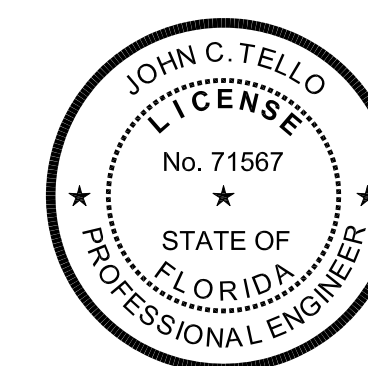
TEL: (305)652-7010

FAX: (305)652-8284

[illegible]

1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DOWNGRADE OR UPGRADE, THE CONTRACTOR SHALL SUBMIT:
 - a. RECORD DRAWING PERMIT FORM
 - b. RECORD DRAWING PERMIT FORM HAS BEEN REVIEWED AND SIGNED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (CITY OF MIAMI HAS REVIEWED BY THE DEPARTMENT)
2. "RECORD DRAWING PERMIT FORM" SHALL BE:
 - a. 24" X 36" PRINT
 - b. LAYOUT FILE (DWG OR DXF) EXTENDED AND TRANSLATED TO HAVE PLANE COORDINATES AND ALL FLORIDA EAST DATUM
 - c. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
 - d. TITLE BLOCK WITH DOWNGRADE OR UPGRADE OR IN THE NUMBER AND PORTIONMENT INFORMATION
 - e. SURVEYOR SHALL BE 1" = 40' HORIZONTALLY AND 1" = 40' VERTICALLY
 - f. STREET INTERSECTIONS
 - g. SEWAGE RECORD DRAWING FOR WATER AND SEWER
 - h. SEWAGE WATER MAIN AND SEWER PROFILE
 - i. SEWAGE WATER MAIN AND SEWER PROFILE WITH HORIZONTAL REFERENCE POINT (E, S, E, & C) OR AS SHOWN ON CURRENT PLUMBING PLANS, AND TO BE CONTINUOUSLY TO END OF MAIN
 - j. PROFILE AS SHOWN ON PLANS TO BE PERMANENTLY RETAINED
 - k. IDENTIFY A CONTROL LINE (E, S, E, & C, LINE, PROPERTY LINE, E, S, E, & C)
 - l. ALL INFORMATION TO BE REVIEWED PRIOR PRINTING, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
3. WATER "RECORD DRAWING" MUST INCLUDE:
 - a. PLUMBING SHOWING PIPE SIZE, MATERIAL, AND STYLE, PLUMBING, AND ALL PIPE, SELECTIONS OF ALL TYPES OF SERVICES, INCLUDING WATER, FIRE, FIBER, AND ALL OTHER PLUMBING COMPONENTS. UTILITY DEVIATIONS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
 - b. PROFILE SHOWING TOP OF CROWN AND TOP OF PIPE, ELEVATIONS AT EVERY 10' STATION AND AT ANY CHANGE IN GRADE (ON CONCRETE OR CASTING), PIPE SIZE, AND ALL INFORMATION REFERENCED TO PLUMBING
4. SEWER "RECORD DRAWING" MUST INCLUDE:
 - a. PLUMBING SHOWING SERVICE MAINS, PIPE SIZE AND PIPE MATERIALS, OF PIPE, SELECTION, SLOPE OF DOWNTY SERVICE, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND COORDINATES.
 - b. THE NORTHPOINT AND EASTPOINT COORDINATES ON ALL FIELD DOWNTY MEASUREMENTS AND PROVIDED ON DOWNTY SERVICE LATERALS
 - c. PROFILE SHOWING SERVICE MAINS (ON PIPE, PLUMB, AND MOST ELEVATIONS) IF SHOWN ON PLUMBING, LABEL NORTH, SOUTH, SLOPE, AND STATION STARTING AT 0+00 AT DOWNTY MAIN LATERAL.
5. FORCE MAIN "RECORD DRAWING" SHALL BE WATER MAIN
6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENTLY "REFERENCE") OF ALL THE MANHOLES AND INLETSES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS, PROPERLY IDENTIFIED AND LOCATED.

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT FOR PREPARATION OF DRAWINGS.		<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>ITEM</td> <td>CROSS REF.</td> <td>B</td> </tr> </table>								ITEM	CROSS REF.	B
ITEM	CROSS REF.	B										
 MAGNETIC MEDIA	ISSUE DATE	APPROVED BY	STANDARD DETAIL "RECORD DRAWING" REQUIREMENTS									
	03/11/2009	V.F.G.										
	07/26/2010	D.V.										
SHEET 2 OF 2 WATER & SEWER IMPROVEMENTS			GS 0.5 SHEET 2 OF 2									



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BY JOHN C. TELLO, P.E. USING A DIGITAL
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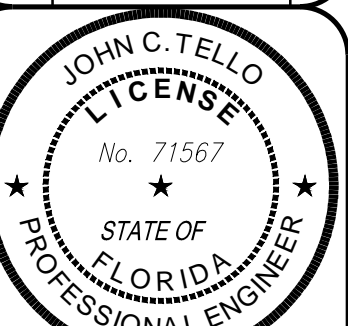
C-0

SHEET 1 OF 17



Schwebke
Shishkin &
Associates, Inc.
LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87
3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

REVISIONS		
Date	Remarks	By
05/08/17	SITE PLAN COMMENTS	JCT



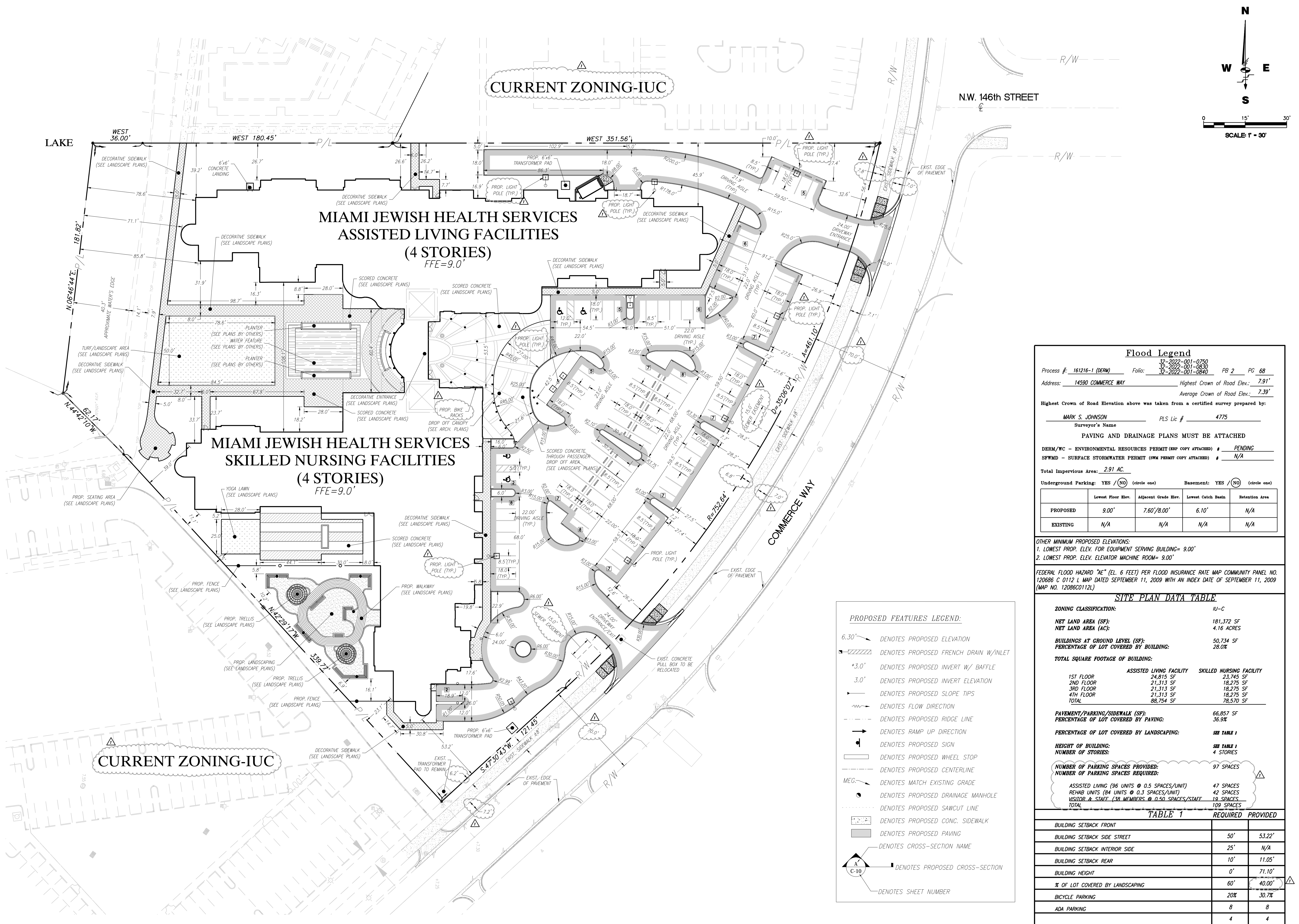
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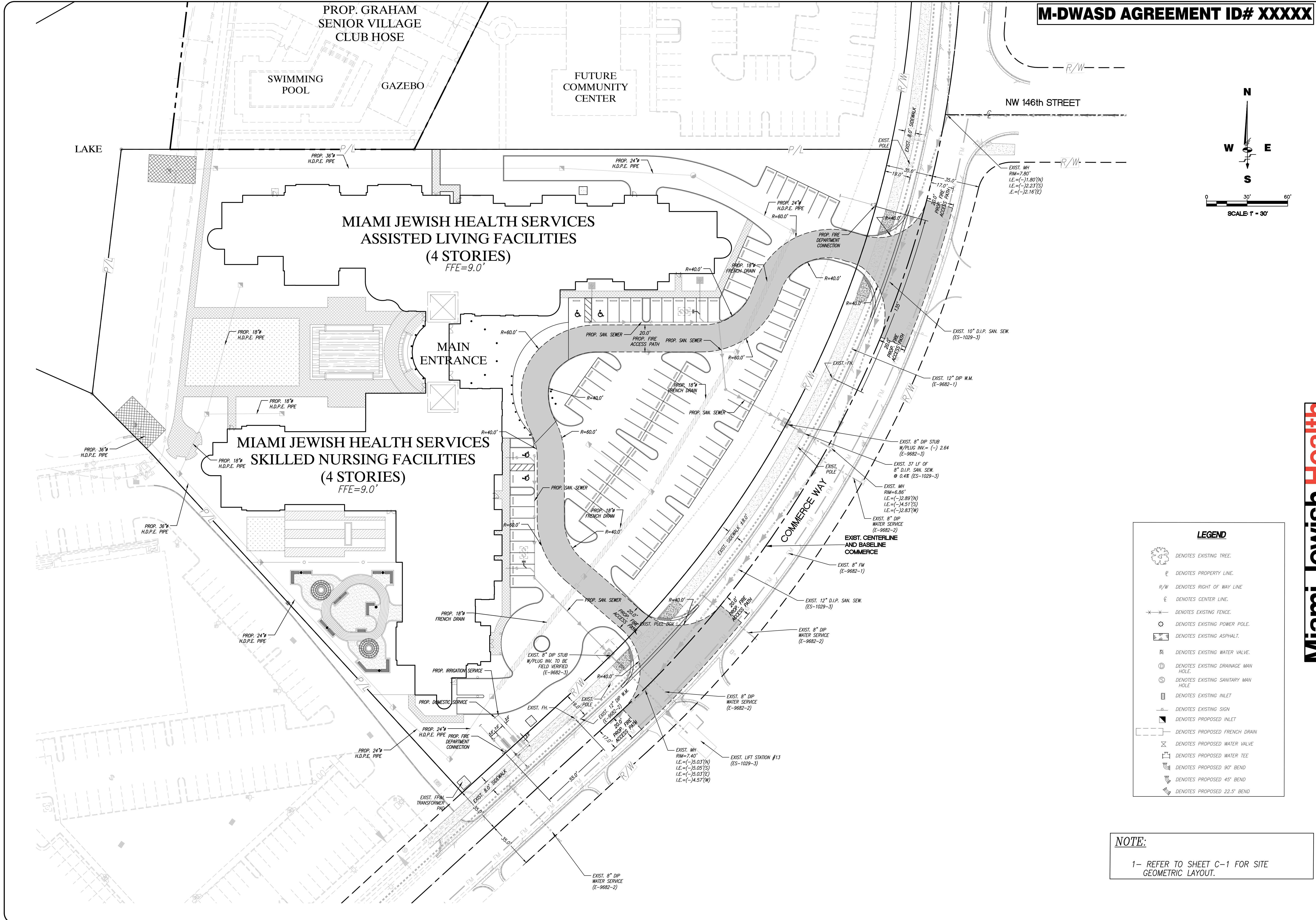
Miami Jewish Health
VILLAGE AT THE LAKES
SITE PLAN
LAYOUT
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: EMM Date: 11/01/16
Checked By: JCT Date: 11/21/16
Order No. 208302 FB. 00000 Pg.00
Drawing Status: PERMIT SET
By: JOHN C. TELLO
ASST. VICE-PRESIDENT
Registered Engineer No. 71567
State of Florida

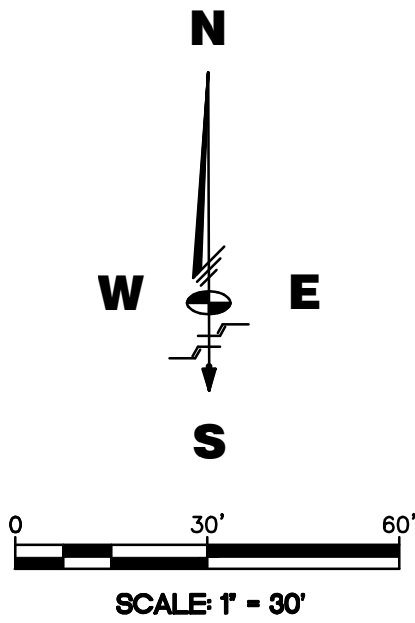
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File No. **ML-1161**

Dwg. No:
C-1
OF: 17





M-DWASD AGREEMENT ID# XXXXX



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Associates, Inc.
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FAX: (305)652-8284

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JOHN C. TELLO
LICENSE
No. 71567
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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Miami Jewish Health
VILLAGE AT THE LAKES
FIRE ACCESS
PLAN
TOWN OF MIAMI LAKES, Florida SEC. 22, Trp. 52, Rge. 40

LEGEND	
	DENOTES EXISTING TREE.
	DENOTES PROPERTY LINE.
	DENOTES RIGHT OF WAY LINE.
	DENOTES CENTER LINE.
	DENOTES EXISTING FENCE.
	DENOTES EXISTING POWER POLE.
	DENOTES EXISTING ASPHALT.
	DENOTES EXISTING WATER VALVE.
	DENOTES EXISTING DRAINAGE MAN HOLE.
	DENOTES EXISTING SANITARY MAN HOLE.
	DENOTES EXISTING INLET.
	DENOTES EXISTING SIGN.
	DENOTES PROPOSED INLET.
	DENOTES PROPOSED FRENCH DRAIN.
	DENOTES PROPOSED WATER VALVE.
	DENOTES PROPOSED WATER TEE.
	DENOTES PROPOSED 90° BEND.
	DENOTES PROPOSED 45° BEND.
	DENOTES PROPOSED 22.5° BEND.

NOTE:
1- REFER TO SHEET C-1 FOR SITE
GEOMETRIC LAYOUT.

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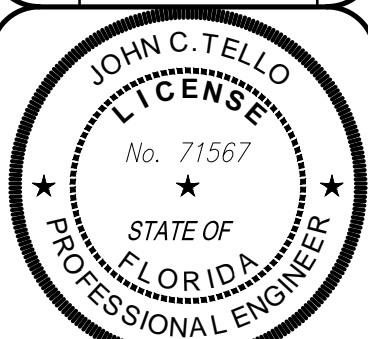
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OF: 17

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VILLAGE AT THE LAKES
WATER AND SEWER
OVERALL PLAN
TOWN OF MIAMI LAKES, Florida SEC. 22, Trp. 52, Rge. 40

Drawn By: EMM Date: 11/01/16

Checked By: JCT Date: 11/21/16

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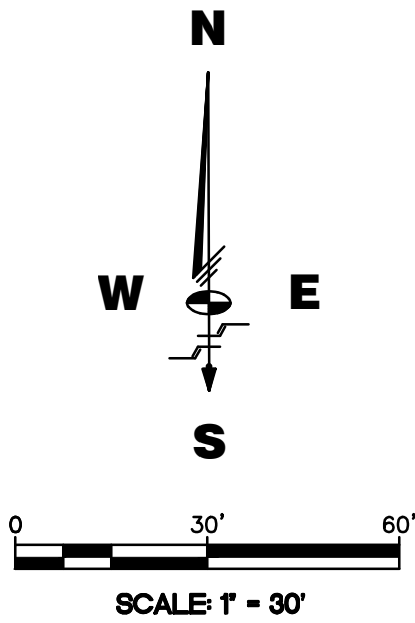
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C-3

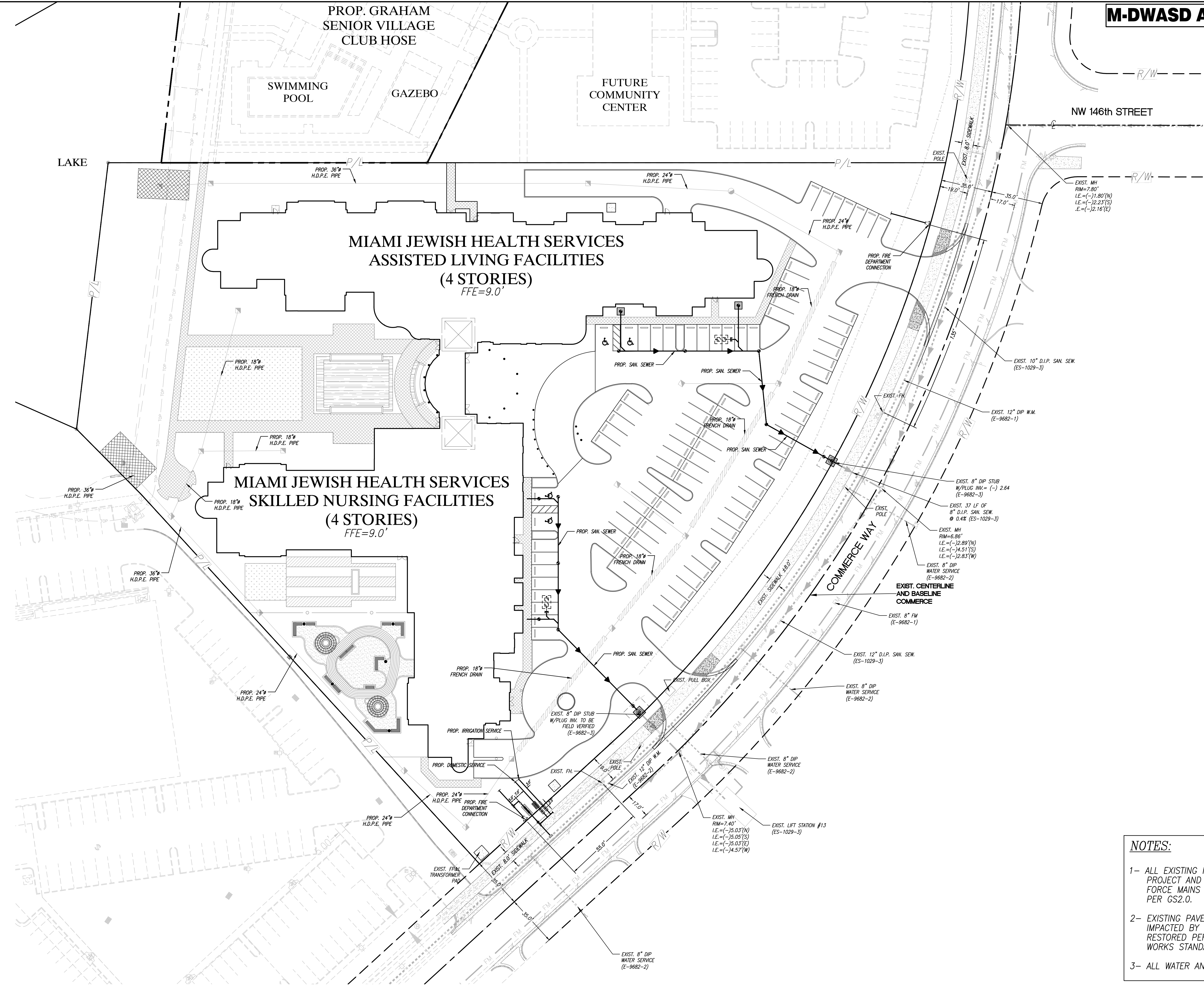
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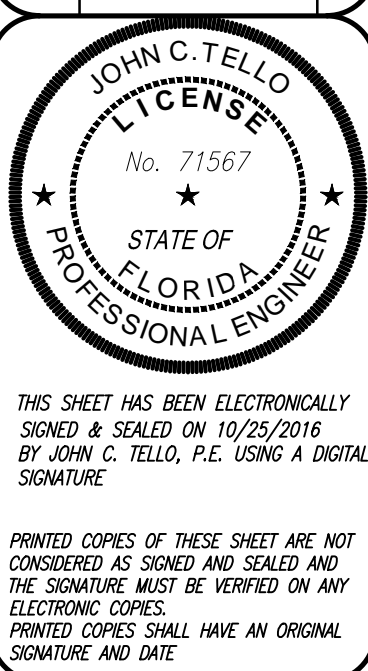
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NOTES:

- ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP WATER AND SEWER FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS2.0.
- EXISTING PAVEMENT, CURBS AND SIDEWALKS IMPACTED BY THIS PROJECT SHALL BE RESTORED PER THE MIAMI DADE COUNTY PUBLIC WORKS STANDARDS.
- ALL WATER AND SEWER CROSSINGS PER GS 1.5

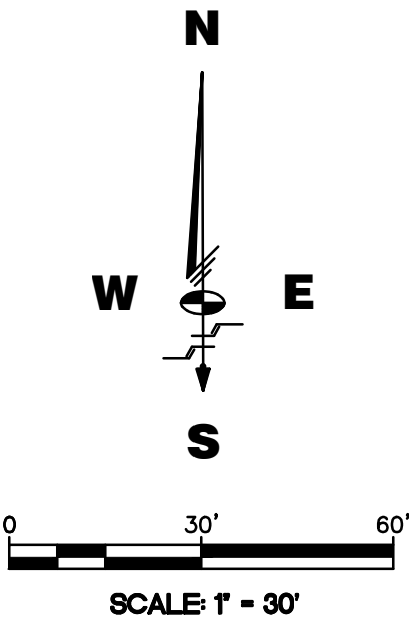


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Miami Jewish Health
VILLAGE AT THE LAKES
DOMESTIC, IRRIGATION AND FIRE
PLAN
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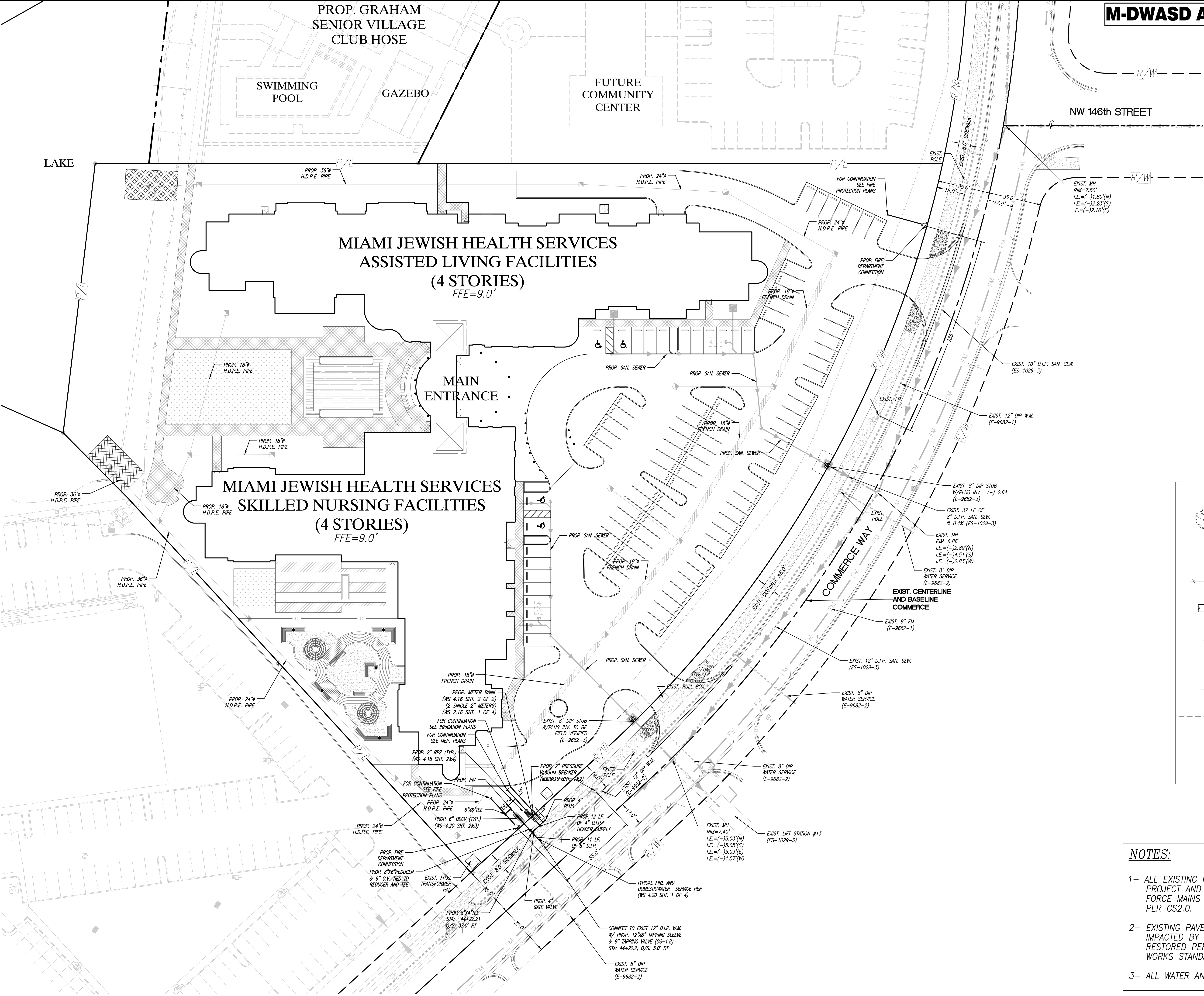
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By: **JOHN C. TELLO**
ASST. VICE-PRESIDENT
Registered Engineer No. 71567
State of Florida
Scale: As Noted
File No. **ML-1161**
Dwg. No.: **C-4**
OF: 17



LEGEND	
	DENOTES EXISTING TREE.
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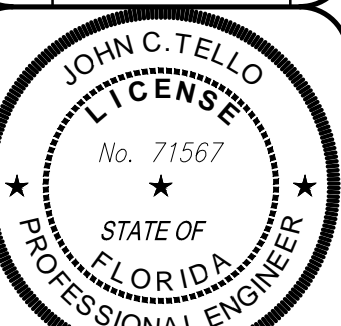
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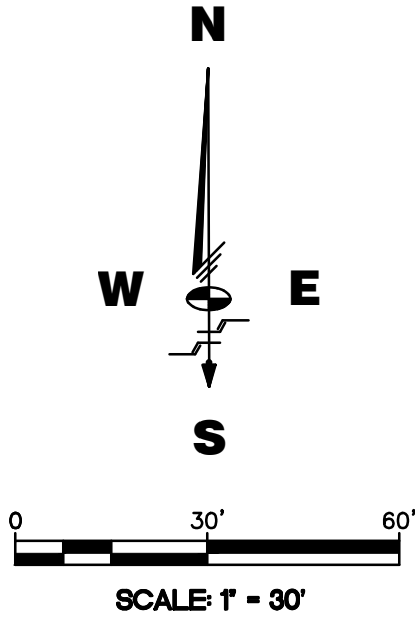
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C-5

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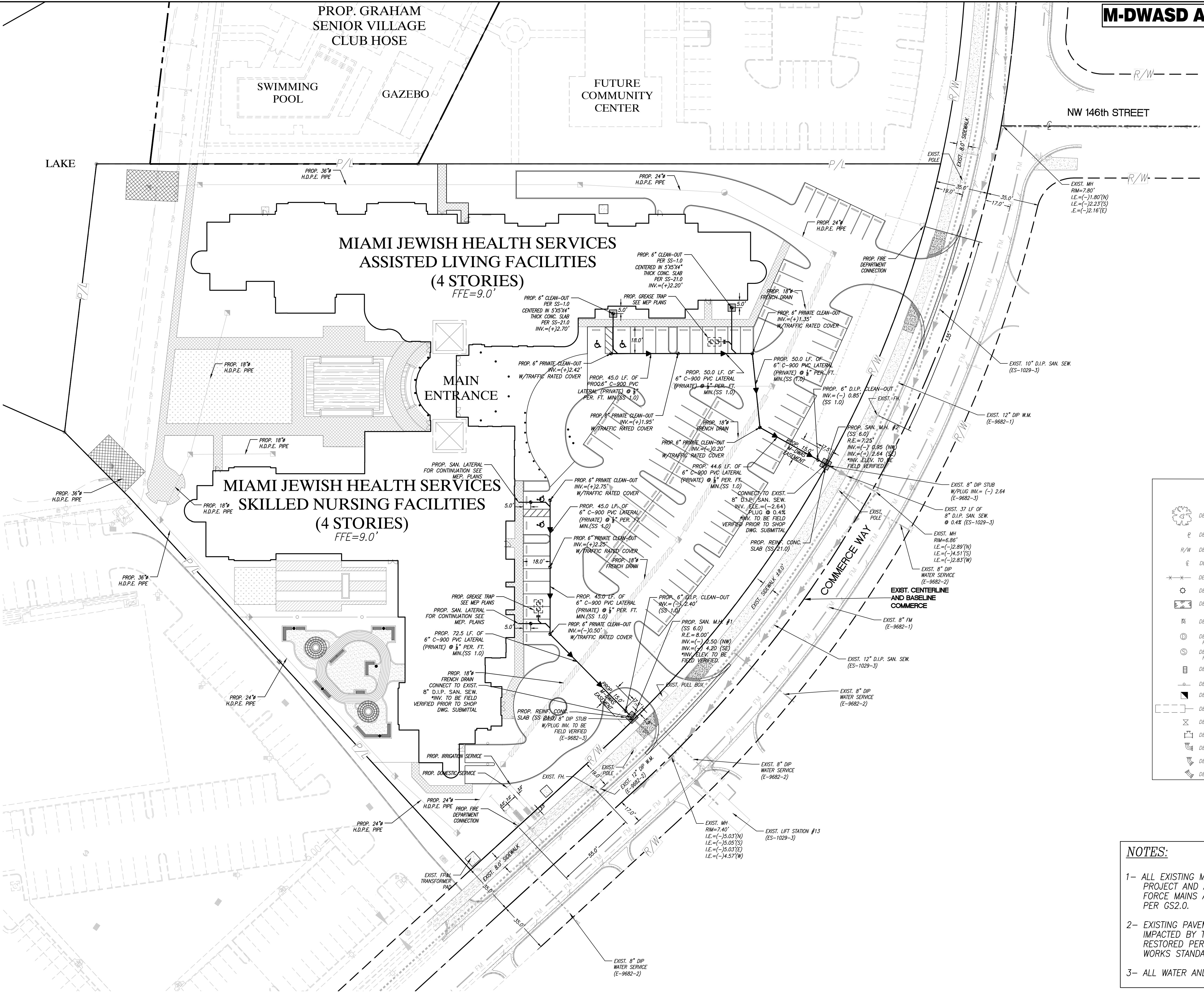


LEGEND

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RER-DERM NOTES ON WATER-SEWER INSTALLATION (NOT PART OF M-DWASD NOTES NOR APPROVAL)

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. This 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. Air release valves shall be provided at high points of new force main sanitary sewers.

4. Gravity sanitary sewers constructed within a public wellfield protection area shall be C-900 PVC or Ductile Iron Pipe. The maximum allowable exfiltration rate of gravity sanitary sewers constructed in a public wellfield protection area shall be:

- a) Residential Land Uses. Fifty (50) gallons per inch pipe diameter per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
- b) Non-Residential Land Uses. Twenty (20) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
- c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.

5. The maximum allowable exfiltration rate of gravity sanitary sewers constructed outside a public wellfield protection area shall be one hundred (100) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.

6. Force main sanitary sewers constructed within a public wellfield protection area shall be ductile iron, C-900 PVC, HDPE or reinforced concrete pressure sewer pipes.

7. The maximum allowable exfiltration/leakage rate of force main sanitary sewers shall be:

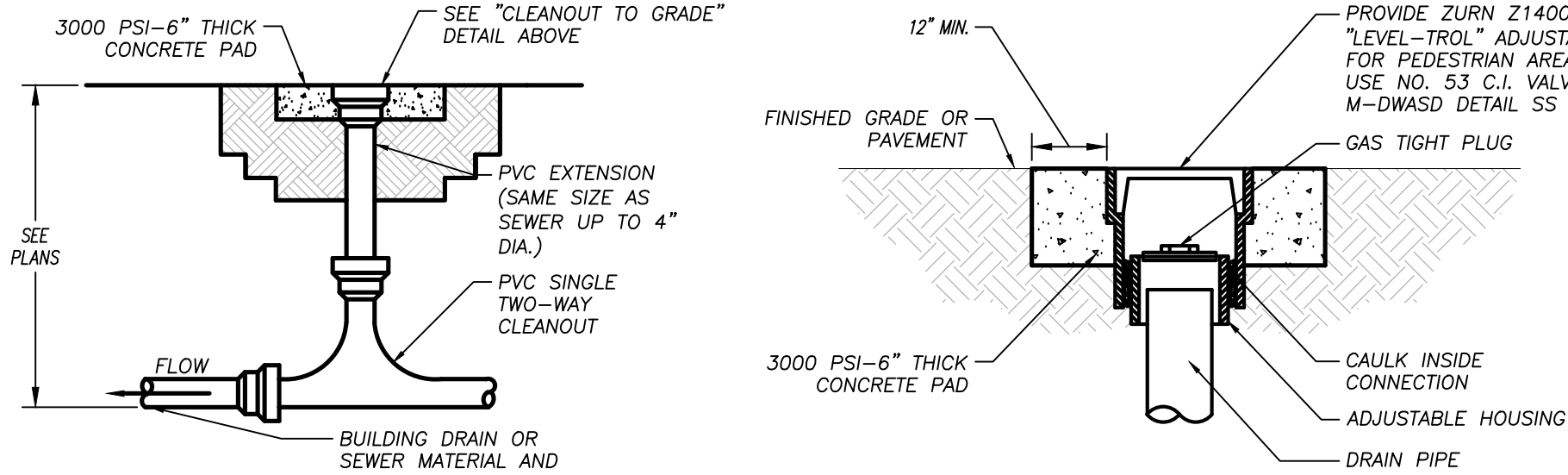
- a) Ductile Iron, C-900 PVC, HDPE and PVC Pipe. The allowable leakage rate specified in American Water Works Association Standard (AWWAS) C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
- b) Reinforced Concrete Pressure Pipe. Half (1/2) the allowable leakage rate specified in AWWA C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
- c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.

8. The contractor shall verify nature, depth, and character of existing underground utilities prior to start of construction.

9. In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench above an existing water or sewer pipe except where they cross.

10. 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 require 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 Solid Waste Management at (305) 594-6666 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.



EXTERIOR CLEANOUT

(NOT PART OF M-DWASD NOTES OR APPROVAL)

CLEANOUT TO GRADE

(NOT PART OF M-DWASD NOTES OR APPROVAL)

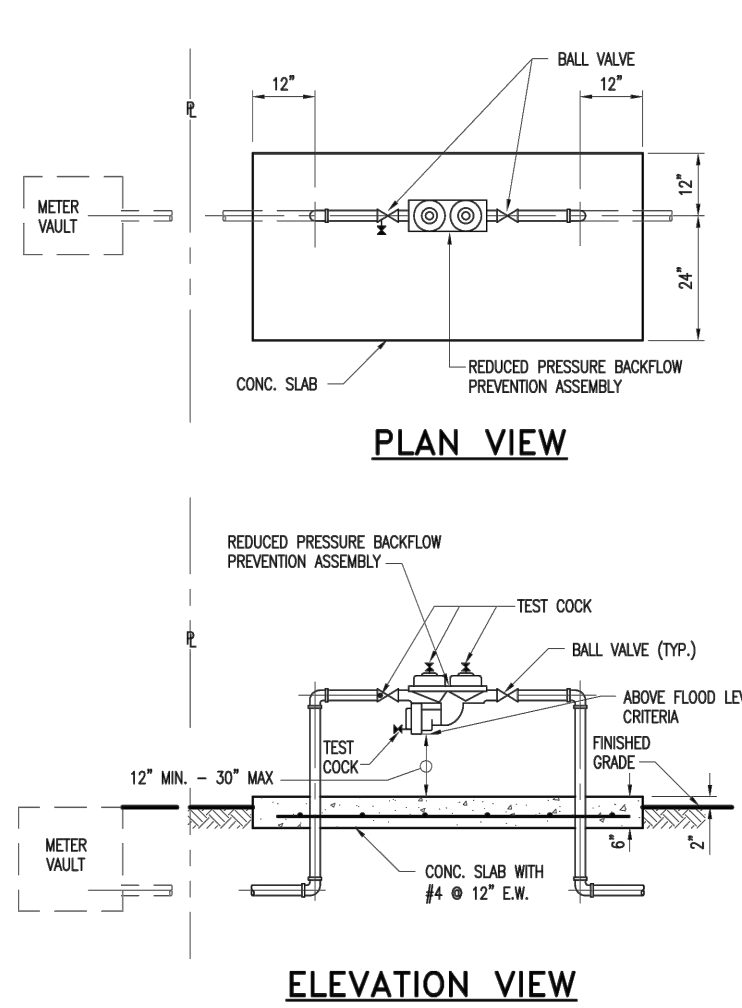
(NOT PART OF M-DWASD NOTES NOR APPROVAL)

NOTES:

- 1.-. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
- 2.-. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
- 3.-. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
- 4.-. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF DOUBLE DETECTOR CHECK VALVE ASSEMBLY, WITH GALVANIZED STEEL PIPE AND FLOOR FLANGE, ATTACH FLOOR FLANGE TO CONCRETE SLAB WITH GALVANIZED EXPANSION BOLTS.
- 5.-. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.
- 6.-. PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. PIPING 2" AND LARGER SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS. ALL PIPING SHALL BE IN ACCORDANCE WITH MWS CONSTRUCTION SPECIFICATIONS FOR DONOR WATER MAINS. PVC PIPING IS NOT ACCEPTED BY MWS.
- 7.-. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.
- 8.-. ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH BLUE ENAMEL PAINT (KOP-COAT D008 LEAD-FREE) IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- 9.-. REFER TO ATTACHED LIST (WS 4.18, SHEETS 4 AND 5 OF 5) OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
- 10.- COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT".

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	6/29/2012	FA.	STANDARD DETAIL
REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE	APPROVED BY	FA.		WS 4.18
NOTES				SHEET 3 OF 5

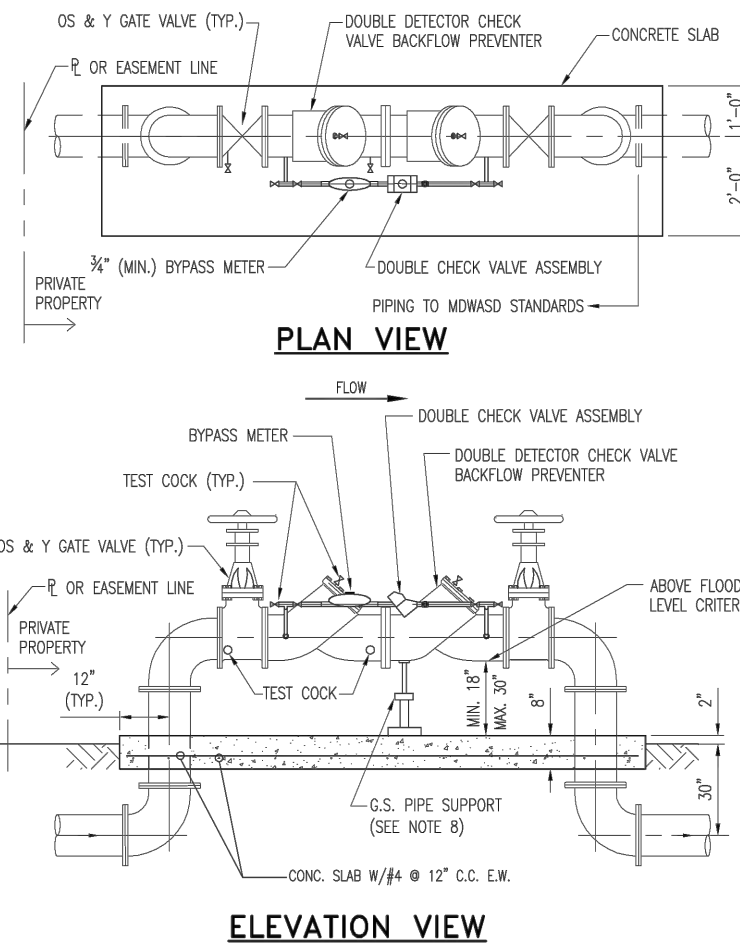
(NOT PART OF M-DWASD NOTES NOR APPROVAL)



ELEVATION VIEW

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	6/26/2012	FA.	STANDARD DETAIL
REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE	APPROVED BY	FA.		WS 4.18
NOTES				SHEET 1 OF 5

(NOT PART OF M-DWASD NOTES NOR APPROVAL)



ELEVATION VIEW

NOTES:
PIPING SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS, IN ACCORDANCE WITH MWSAS
CONSTRUCTION SPECIFICATIONS FOR DONOR WATER MAINS.

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	09/30/2009	V.F.C.	STANDARD DETAIL
DOUBLE DETECTOR CHECK VALVE ASSEMBLY FOR FIRELINE SERVICE	APPROVED BY	V.F.C.		WS 4.20
NOTES				SHEET 2 OF 4

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	6/26/2012	FA.	STANDARD DETAIL
APPROVED BACKFLOW PREVENTION ASSEMBLIES	APPROVED BY	FA.		WS 4.20
NOTES				SHEET 4 OF 5

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	6/26/2012	FA.	STANDARD DETAIL
APPROVED BACKFLOW PREVENTION ASSEMBLIES	APPROVED BY	FA.		WS 4.20
NOTES				SHEET 4 OF 5

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

NOTES:

1. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
2. GUARD POST SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
3. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
4. ALL JOINTS SHALL BE FLANGED OR RESTRAINED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
5. ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH RED ENAMEL PAINT (KOP-COAT D008 LEAD-FREE) IN ACCORDANCE WITH DEPARTMENT STANDARDS.
6. THE DEPARTMENT WILL PROVIDE CHAINS AND LOOKS FOR GATE VALVES.
7. FOR RETROFIT PROJECTS, REPLACE THE EXISTING SINGLE CHECK VALVE DEVICE WITH A SPOOL PIECE AND INSTALL A NEW DOUBLE DETECTOR CHECK VALVE ASSEMBLY WITHIN PRIVATE PROPERTY.
8. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF DOUBLE DETECTOR CHECK VALVE ASSEMBLY, WITH GALVANIZED STEEL PIPE AND FLOOR FLANGE, ATTACH FLOOR FLANGE TO CONCRETE SLAB WITH GALVANIZED EXPANSION BOLTS.
9. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY.
10. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.

GUARD POST DETAIL		WS 4.18	CROSS REF.	SPEC. REF.
ITEM		WS 4.18	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY	ISSUE DATE	09/30/2009	V.F.C.	STANDARD DETAIL
DOUBLE DETECTOR CHECK VALVE ASSEMBLY FOR FIRELINE SERVICE	APPROVED BY	V.F.C.		WS 4.20
NOTES				SHEET 3 OF 4

M-DWASD AGREEMENT ID# 23082

DEPARTMENT OF HEALTH
(NOT PART OF M-DWASD NOTES NOR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS

1. SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE.
2. BETWEEN WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.
3. BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.
4. GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. DISTANCE BETWEEN WATER MAIN AND GRAVITY SEWER. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.
5. 10 FT. MINIMUM TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS

1. SEPARATIONS BETWEEN WATER MAINS AND VACUUM TYPE SEWER, OR STORM SEWERS TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE, OR AT LEAST 12 INCHES IF BELOW.*
2. PRESSURE SANITARY SEWER, WASTEWATER, OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

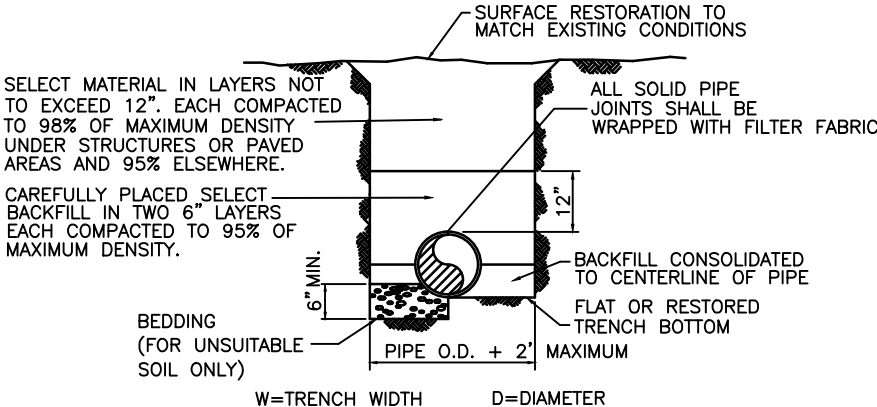
*NOTE: CENTER ONE FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORMWATER, OR STORMWATER FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS, OR RECLAIMED WATER MAINS.

ALL WATER MAINS 24 INCHES IN DIAMETER OR LESS, SHALL BE BLUE IN COLOR OR HAVE A 2 INCH WIDE BLUE STRIPE PAINTED ALONG THE CENTERLINE OF THE PIPE.

NOTE: NOT A PART OF
M-DWASD NOTES OR APPROVAL

CONTRACTOR TO COORDINATE ALL WORK TO BE DONE BY M-DWASD FORCES AT OWNERS EXPENSE. COORDINATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1. DEALING WITH M-DWASD OFFICIALS AT THE BEGINNING OF THE PROJECT TO ENSURE THAT THE M-DWASD WORK WILL NOT IMPACT THE PROJECT SCHEDULE.
2. OBTAINING ANY CHECKS, OR OTHER FORMS OF PAYMENT FROM THE DEVELOPER.
3. PROVIDING THE OWNER AND ENGINEER OF RECORD WITH M-DWASD'S ANTICIPATED WORK SCHEDULE.



NOTES:

1. BEDDING MATERIAL WHEN NECESSARY, SHALL BE CLEAN SANDY SOIL WHENEVER AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED 3/4" MAX. SIZED CRUSHED LIMEROCK. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID.
2. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.

TRENCH DETAIL
N.T.S.

NOT PART OF WASD APPROVAL

Miami Jewish Health

VILLAGE AT THE LAKES

WATER AND SEWER DETAILS

TOWN OF MIAMI LAKES, Florida SEC. 22, Trp. 52, Rge. 40

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Shishkin &
Associates, Inc.
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CIVIL ENGINEERS
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LB#87 CA#87
3240 CORPORATE WAY
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REVISIONS		
Date	Remarks	By

JOHN C. TELLO
LICENSE
No. 71567
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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SIGNED & SEALED ON 08/20/2016
BY JOHN C. TELLO, P.E. USING A DIGITAL
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Checked By: JCT Date: 11/21/16
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Sketches &
Drawing Status: PERMIT SET
By: JOHN C. TELLO
ASST. VICE-PRESIDENT
Registered Engineer No. 71567
State of Florida

Scale: As Noted
File No. ML-1161

Dwg. No: C-6
OF: C-17