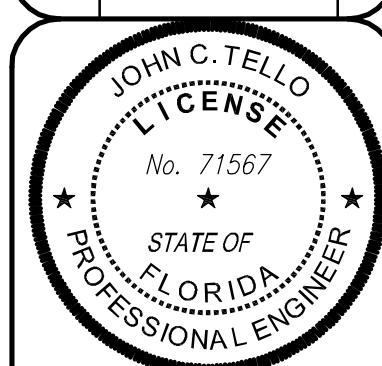


REVISIONS

Date	Remarks	By
05/02/17	SITE PLAN COMMENTS	JCT



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**Miami Jewish Health**  
**VILLAGE AT THE LAKES**  
PAVING, GRADING AND DRAINAGE  
PLAN  
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. 206302 FS Sketches & 00000 Pg.00

Drawing Status: PERMIT SET

By:  
**JOHN C. TELLO**  
ASST. VICE-PRESIDENT  
Registered Engineer No. 71567  
State of Florida

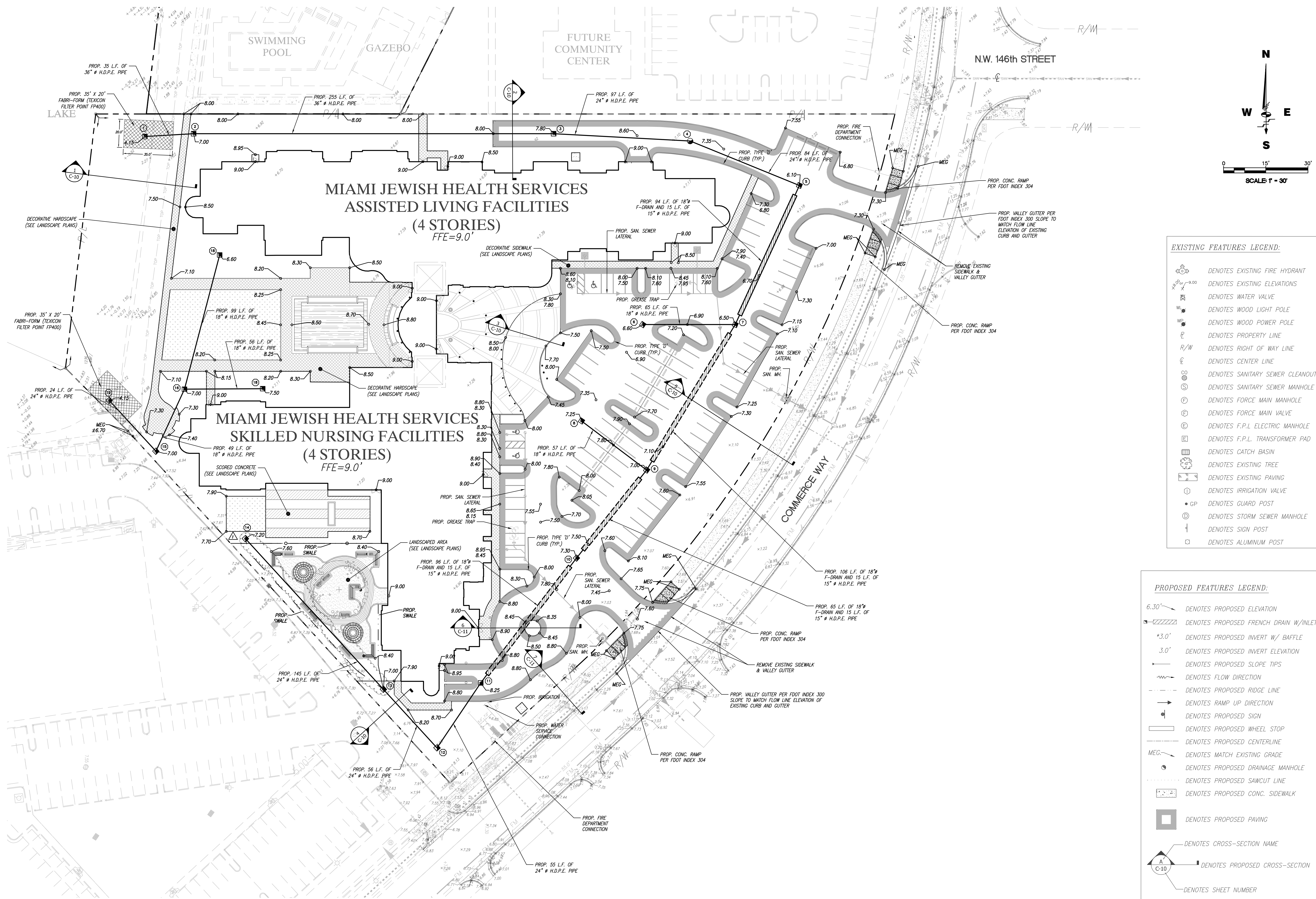
Scale: As Noted

File No. **ML-1161**

Dwg. No:

**C-7**

OF: 17



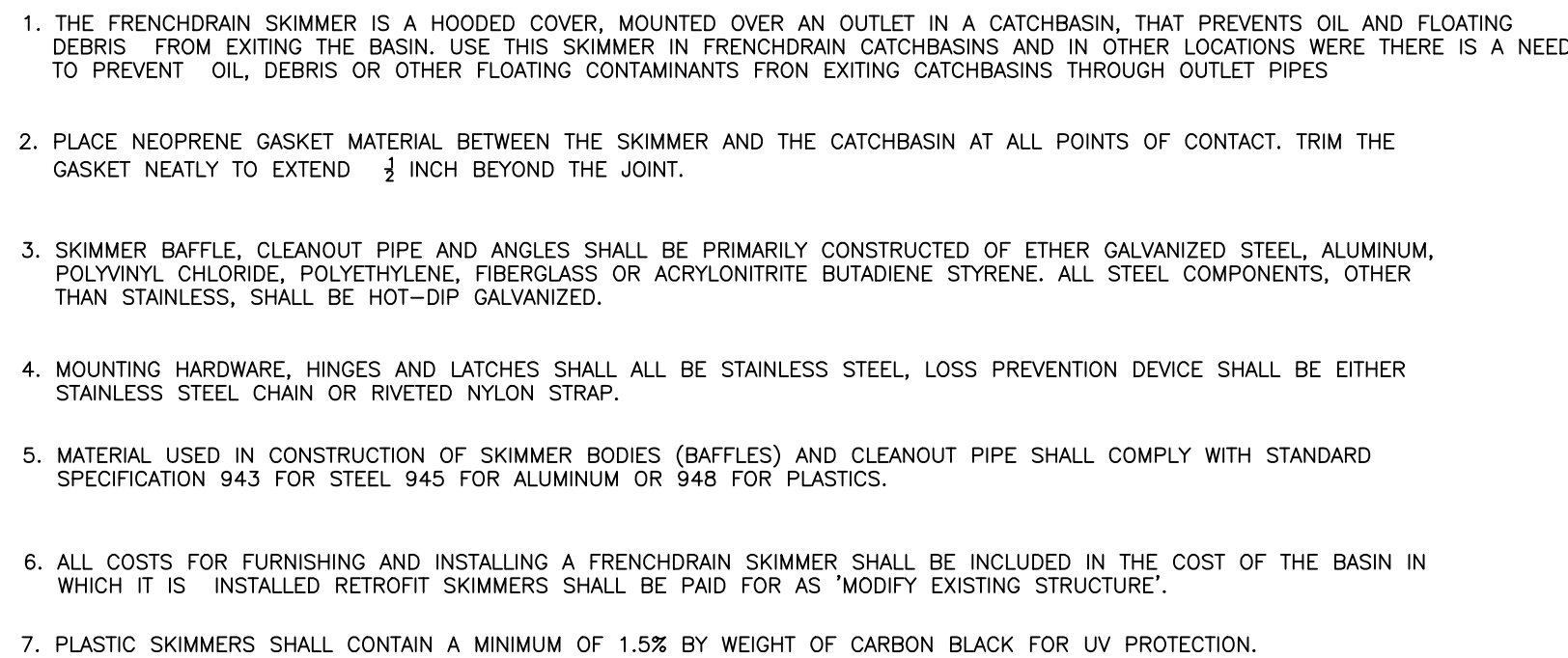
EXISTING FEATURES LEGEND:

- ⊙ DENOTES EXISTING FIRE HYDRANT
- ⊙ DENOTES EXISTING ELEVATIONS
- ⊙ DENOTES WATER VALVE
- ⊙ DENOTES WOOD LIGHT POLE
- ⊙ DENOTES WOOD POWER POLE
- ⊙ DENOTES PROPERTY LINE
- R/W DENOTES RIGHT OF WAY LINE
- C DENOTES CENTER LINE
- ⊙ DENOTES SANITARY SEWER CLEANOUT
- ⊙ DENOTES SANITARY SEWER MANHOLE
- ⊙ DENOTES FORCE MAIN MANHOLE
- ⊙ DENOTES FORCE MAIN VALVE
- ⊙ DENOTES F.P.L. ELECTRIC MANHOLE
- ⊙ DENOTES F.P.L. TRANSFORMER PAD
- ⊙ DENOTES CATCH BASIN
- ⊙ DENOTES EXISTING TREE
- ⊙ DENOTES EXISTING PAVING
- ⊙ DENOTES IRRIGATION VALVE
- ⊙ DENOTES GUARD POST
- ⊙ DENOTES STORM SEWER MANHOLE
- ⊙ DENOTES SIGN POST
- ⊙ DENOTES ALUMINUM POST

PROPOSED FEATURES LEGEND:

- 6.30' DENOTES PROPOSED ELEVATION
- ⊙ DENOTES PROPOSED FRENCH DRAIN W/ INLET
- \*3.0' DENOTES PROPOSED INVERT W/ BAFFLE
- 3.0' DENOTES PROPOSED INVERT ELEVATION
- ⊙ DENOTES PROPOSED SLOPE TIPS
- ⊙ DENOTES FLOW DIRECTION
- ⊙ DENOTES PROPOSED RIDGE LINE
- ⊙ DENOTES RAMP UP DIRECTION
- ⊙ DENOTES PROPOSED SIGN
- ⊙ DENOTES PROPOSED WHEEL STOP
- ⊙ DENOTES PROPOSED CENTERLINE
- MEG DENOTES MATCH EXISTING GRADE
- ⊙ DENOTES PROPOSED DRAINAGE MANHOLE
- ⊙ DENOTES PROPOSED SAWCUT LINE
- ⊙ DENOTES PROPOSED CONC. SIDEWALK
- ⊙ DENOTES PROPOSED PAVING
- ⊙ DENOTES CROSS-SECTION NAME
- ⊙ DENOTES PROPOSED CROSS-SECTION
- ⊙ DENOTES SHEET NUMBER





**30' RE-WORK LAKE CROSS-SECTION  
BEFORE THE INSTALLATION OF THE  
FABRI-FORM (TEXICON FILTER POINT FP400)**

25'

PROP. FABRI-FORM  
(TEXICON FILTER  
POINT FP400) 35'  
L.F. ALONG WATER

ELEV. 4.20'

TYPE "E"  
STRUCTURE  
36"X54"

52"

11"

+7.60' NGVD  
TOP OF BERM

7.4'

MIAMI-DADE COUNTY  
FLOOD CRITERIA +6.6'  
NGVD TOP OF BANK

3.00'

1" MIN. OCT. WATER TABLE 3.40' NGVD

MAY WATER TABLE  
+2.30' NGVD

-0.70'

5' MAX. SHELF  
MIN.

ELEV. -2.00

PROP. 24" HDPE

ELEV. (-)0.0'

PROP. CONTROL STRUCTURE

**TYPICAL LAKE SECTION FOR  
CONTROL STRUCTURE PLACEMENT  
STRUCTURES #1 AND #2**

CONTRACTOR TO PROVIDE FABRI FORM  
TEXICON FILER POINT (FP400) AROUND  
ALL CONTROL STRUCTURES

25' MIN.

36"

54"

24" HDPE PIPE  
INV. = (-)0.00

2"

USF # 6615  
RIM EL. = 4.20

VARIES

24"

8"

8"

**F.D.O.T. TYPE "E" DITCH  
BOTTOM INLET - CONTROL STRUCTURES**



Diagram illustrating the cross-section of a concrete ramp structure. Key components and dimensions labeled include:

- RAMP**: The main sloped surface.
- TYPE "D" CURB**: The curb on the left side of the ramp.
- LANDING AREA**: The flat area at the top of the ramp.
- TYPE "D" CURB**: The curb on the right side of the ramp.
- CONCRETE WALK AREA**: The area on the right side of the ramp.
- SHOULDER 6" MIN.**: The minimum width of the shoulder on the right.
- 2% MAX.**: The maximum cross slope of the ramp.
- R=2'**: The radius of the curved landing area.
- 6' MIN.**: The minimum width of the landing area.

**CROSS SLOPE SHALL NOT EXCEED 2%**

2'-6"

2"

6"

6"

3000 P.S.I. CONC. (MIN.)

2 #3 CONTINUOUS

1 1/2"

ASPHALT

(SEE SECTION)

1 #4 AT EACH END  
12" LONG ( 2 )

**WHEEL STOP DETAIL**

PROVIDE ONE AT EACH PARKING SPACE

SEE PLAN

REFER TO GRADING PLAN FOR EDGE OF PAVEMENT AND TOP OF CURB GRADE. IF NOT SHOWN

2% MAX. 1.0% MIN. SIDEWALK

2" Rad.

2"

ASPHALT PARKING / DRIVE (SLOPE VARIES)

12"

8"

PROP. 12" SUB-BASE, MIN.  
LBR=40 MIN. COMPACTION= 95%

PROP. CONCRETE SHALL BE 4,000 PSI MIN.

**THICKENED EDGE SIDEWALK**

(Concrete Shall Be 3,000 PSI MIN.)  
N.T.S.

1. ALL STORM DRAINAGE STRUCTURES SHALL BE EQUIPPED WITH FILTER CLOTH SUPPORTED BELOW THE GRATE/INLET WITH WIRE MESH OR A SIMILAR SYSTEM UPON INSTALLATION OF THE BASIN TOPS ON SITE. THE FILTER CLOTH FABRIC IS NOT TO BE REMOVED OR PERFORATED/DISTURBED FROM THE BASINS UNTIL LANDSCAPING, SOD INSTALLATION, PAVEMENT/CURBING INSTALLATION, STRIPING, AND SWEEPING IS COMPLETED ON THE ENTIRE SITE.
2. ALL STRUCTURES SHALL BE VACUUMED CLEAN OF ALL SILT, SAND, AND DEBRIS BEFORE FINAL ACCEPTANCE BY THE ENGINEER AND THE OWNER.
3. ALL STORM DRAINAGE PIPE (PERFORATED OR NON-PERFORATED) WILL BE INSTALLED AND MAINTAINED CLEAN AND CLEAR OF DEBRIS, ROCK, SAND AND SILT.
4. CONTRACTOR(S) SHALL BE CAUTIONED THAT INTRODUCTION OF SUCH MATERIALS AS CONSTRUCTION MATERIALS, CONCRETE AND STUCCO SLURRY OR WASHOFF MATERIALS FROM THESE OPERATIONS, PAINT AND PAINTING ACTIVITY INGREDIENTS, OILS, HYDRAULIC FLUIDS, FUELS AND OR ANY OTHER SUCH DELETERIOUS MATERIALS, WHEN INTRODUCED INTO THE STORM DRAINAGE SYSTEM CAN AND WILL RENDER IT USELESS, POLLUTE THE SITE AND SURROUNDING SITES OR HARM THE SYSTEM'S PERFORMANCE LEVEL.

1. ALL ELEVATIONS REFER TO N.G.V.D..
2. ALL WORK SHALL CONFORM TO THE DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT, SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT REGULATIONS & STANDARDS.
3. C.A.P.= CORRUGATED ALUMINUM PIPE AND SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS SET FORTH IN SECTIONS 945, 430 AND 440.
4. PRIOR TO EXCAVATION THE CONTRACTOR SHALL VERIFY THE LOCATION (VERTICALLY & HORIZONTALLY) OF ALL OF THE EXISTING UTILITIES IN ORDER TO AVOID CONFLICTS WITH THE PROPOSED DRAINAGE. IN CASE OF CONFLICT THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE STRUCTURES, GRATES, ETC. FOR HIS APPROVAL PRIOR TO INSTALLATION.

INTEGRAL DOME

0.2"

**TRUNCATED DOME**

DOME PATTERN SHALL BE IN-LINE WITH DIRECTION OF TRAVEL

EDGE OF DETECTABLE WARNING

5.2"

2.35"

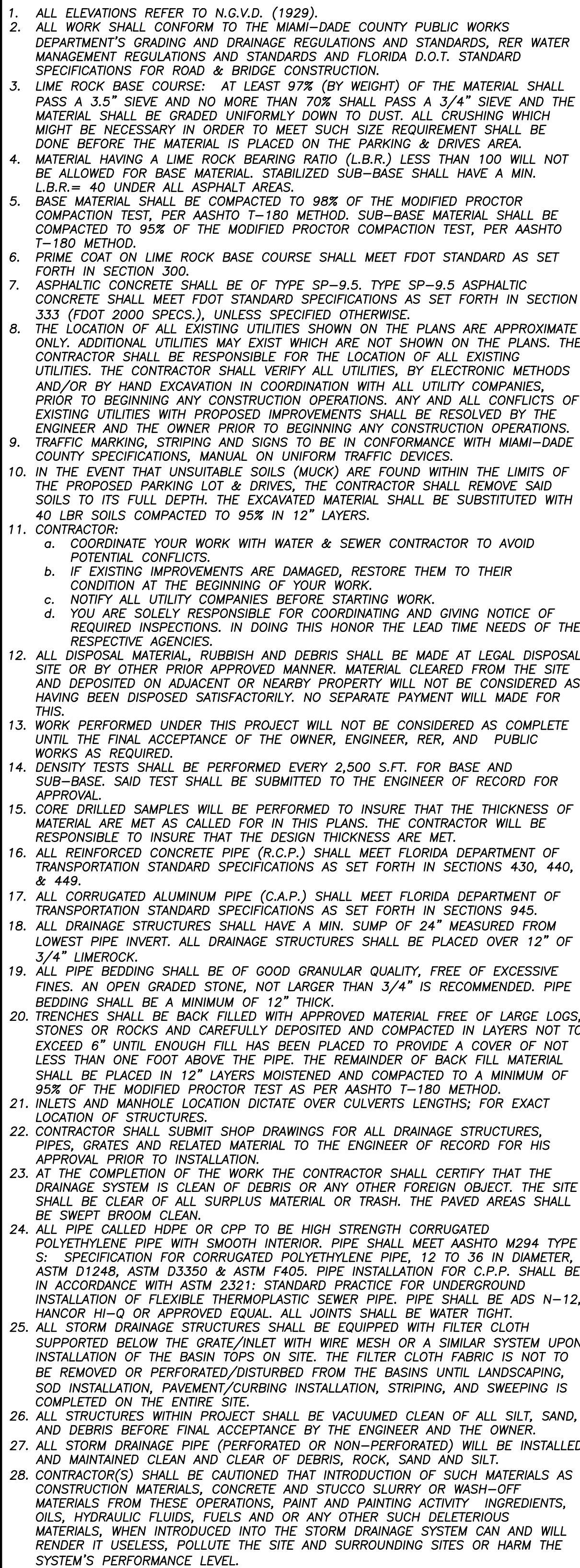
2.35"

TRUNCATED DOME (SEE DETAIL)

1-ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH & RUN OF THE RAMP

2-FLUSHED SIDEWALK/ASPHALT CONNECTION SHALL HAVE A 3.0' TACTILE MAT EXTENDING THE FULL WIDTH OF THE CONNECTION

NOTE: MAT SHAL BE YELLOW IN COLOR



**VILLAGE AT THE LAKES**  
PAVING, GRADING AND DRAINAGE  
DETAILS  
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: EMM Date: 11/01/16

Checked By: JCT Date: 11/21/10

Order No. 206302 FB. Sketches &  
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By: \_\_\_\_\_

JOHN C. TELLO  
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Scale: As Noted

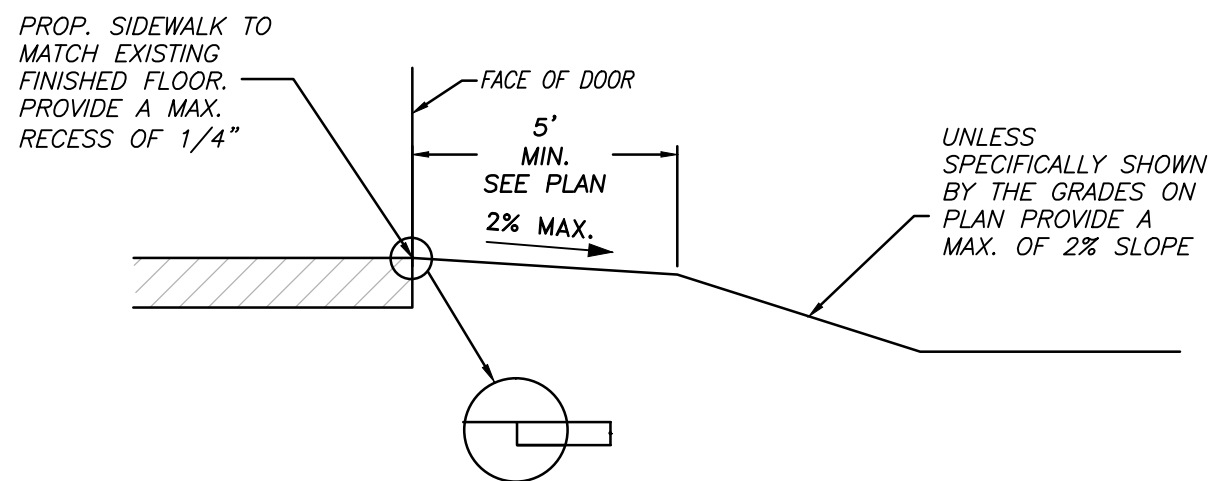
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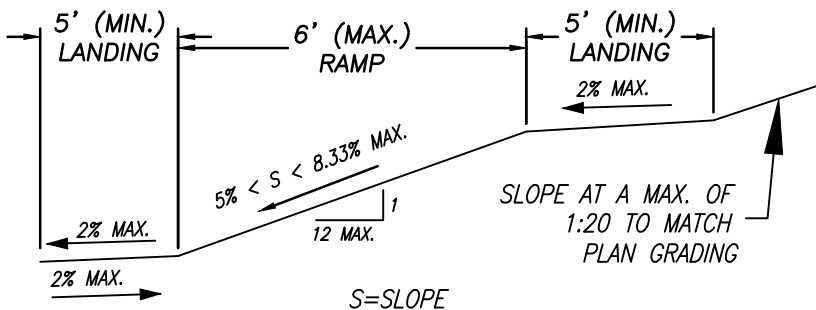
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OF: 17



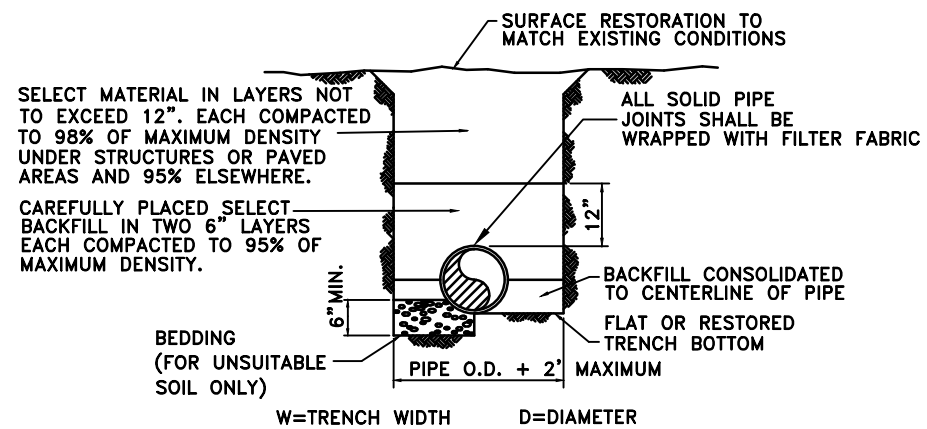


GRADING AT BUILDING EXITS/ENTRANCES



TYPICAL CURB RAMP PROFILE

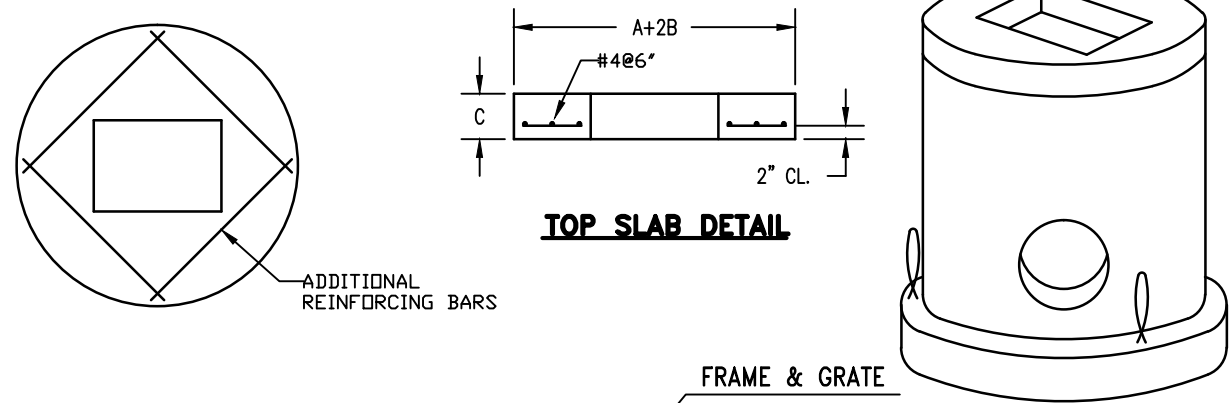
NOTE: RAMP RUN SLOPES EXCEEDING 5% SHALL BE 6' OR LESS, NO EXCEPTIONS



- NOTES:
- 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 LIMESTONE. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID.
  - DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
  - IF #57 STONE IS USED, CONTRACTOR SHALL PROVIDE FILTER FABRIC OVER THE #57 STONE TO AVOID SOIL MIGRATION.

TRENCH DETAIL

N.T.S.



TOP SLAB DETAIL

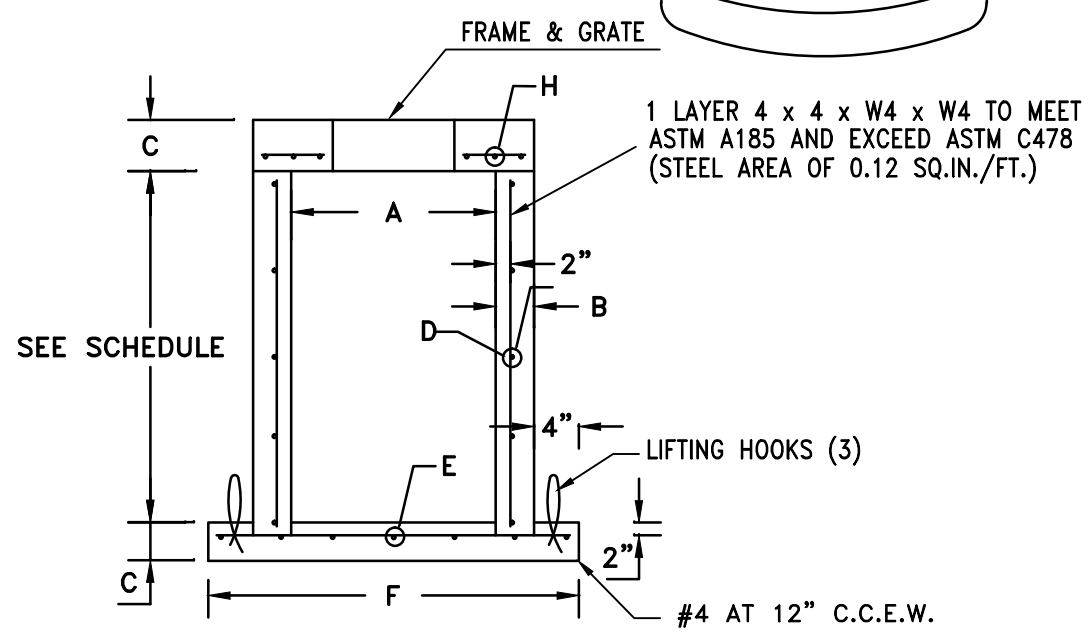
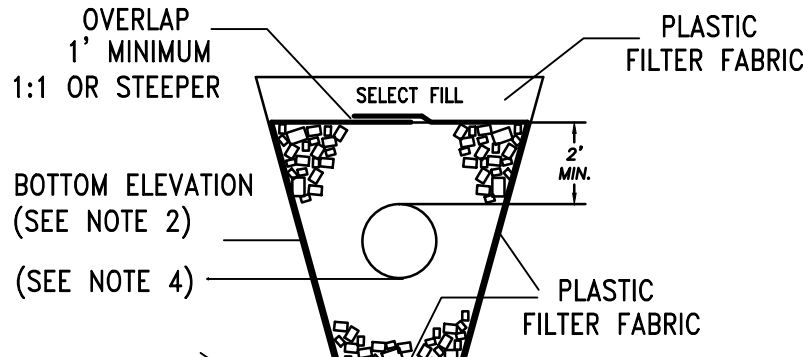


TABLE OF DIMENSIONS									
AØ	B	C	D	E* C.C.E.W.	FØ	GØ	H* C.C.E.W.	HOLDING CAPACITY (GALLONS)	
3'-6"	6"	8"	ASTM C-478	#4 AT 12"	5'-0"	4'-6"	#4 AT 6"	72	
4'-0"	6"	8"	ASTM C-478	#4 AT 12"	6'-0"	5'-0"	#4 AT 6"	94	
4'-0"	8"	8"	ASTM C-478	#4 AT 12"	6'-4"	5'-4"	#4 AT 6"	94	
5'-0"	8"	8"	ASTM C-478	#5 AT 12"	7'-4"	6'-4"	#5 AT 6"	147	
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-0"	7'-0"	#5 AT 6"	211	
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-4"	7'-4"	#5 AT 6"	211	

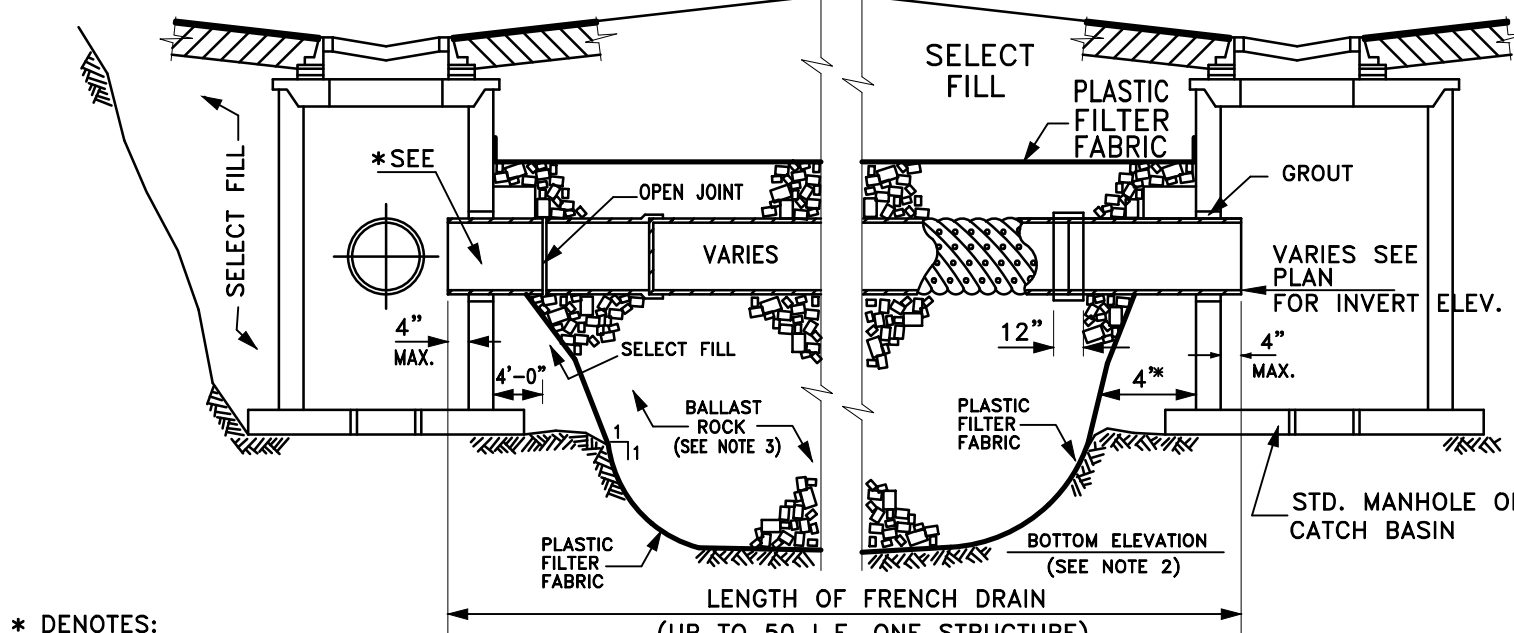
\*GRADE 40, OR FOR EQUIVALENT STEEL DESIGNS.

TYPE "C" CATCH BASIN  
42"-120" ROUND STRUCTURE



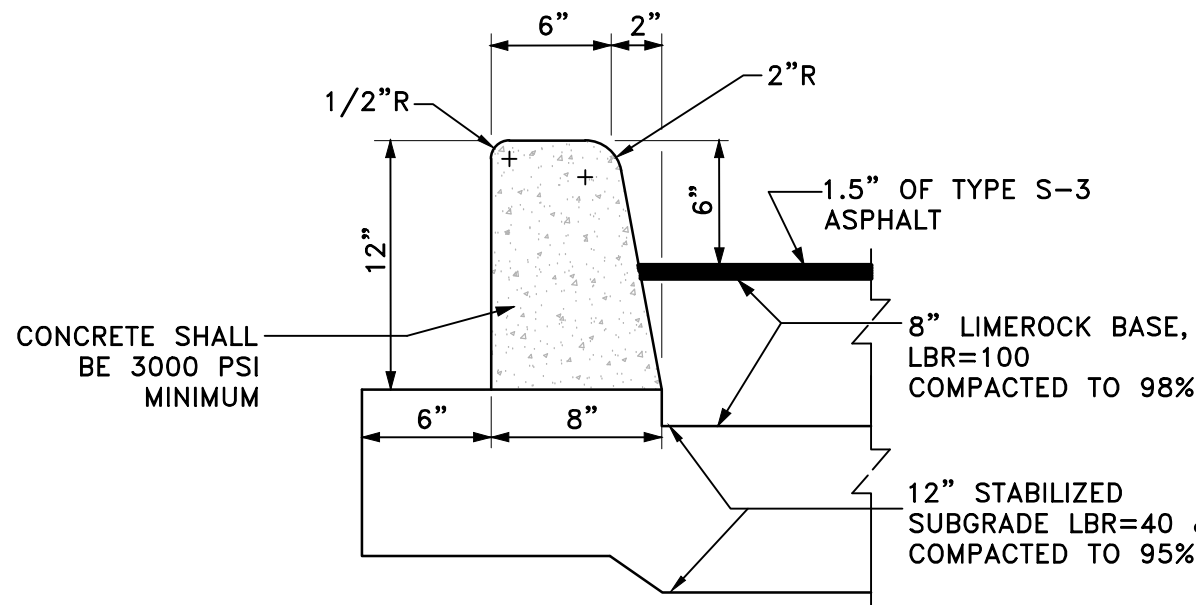
ALTERNATE TRANSVERSE SECTION

MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE IN BELOW THE WATER TABLE IS LIKELY TO OCCUR, TO BE USED AT THE ENGINEER'S DISCRETION.



\* DENOTES:  
NO SLOTS OR PERFORATIONS  
ON THIS LENGTH OF PIPE.

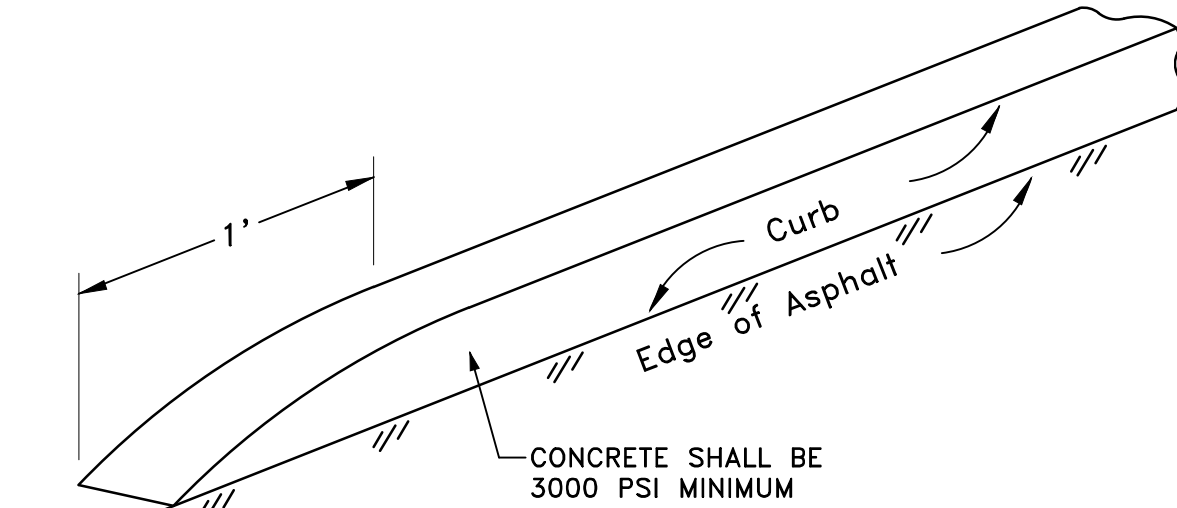
LONGITUDINAL SECTION  
EXFILTRATION TRENCH



TYPE "D" CURB

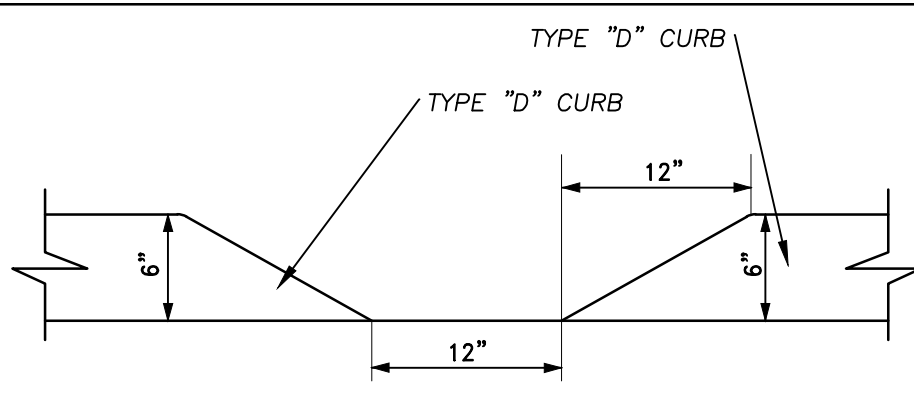
N.T.S.

NOTE: SAWCUTS REQUIRED AT 10' O.C.  
WITHIN 48 HOURS OF POUR



TYPICAL CURB ENDING

N.T.S.

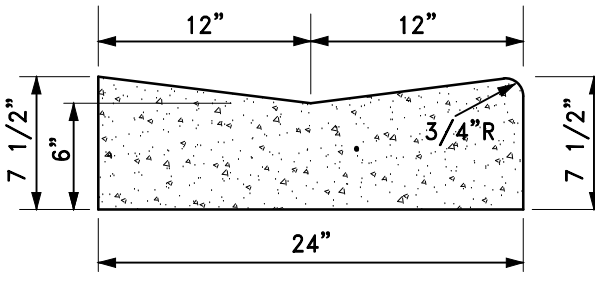


CURB OPENING

N.T.S.

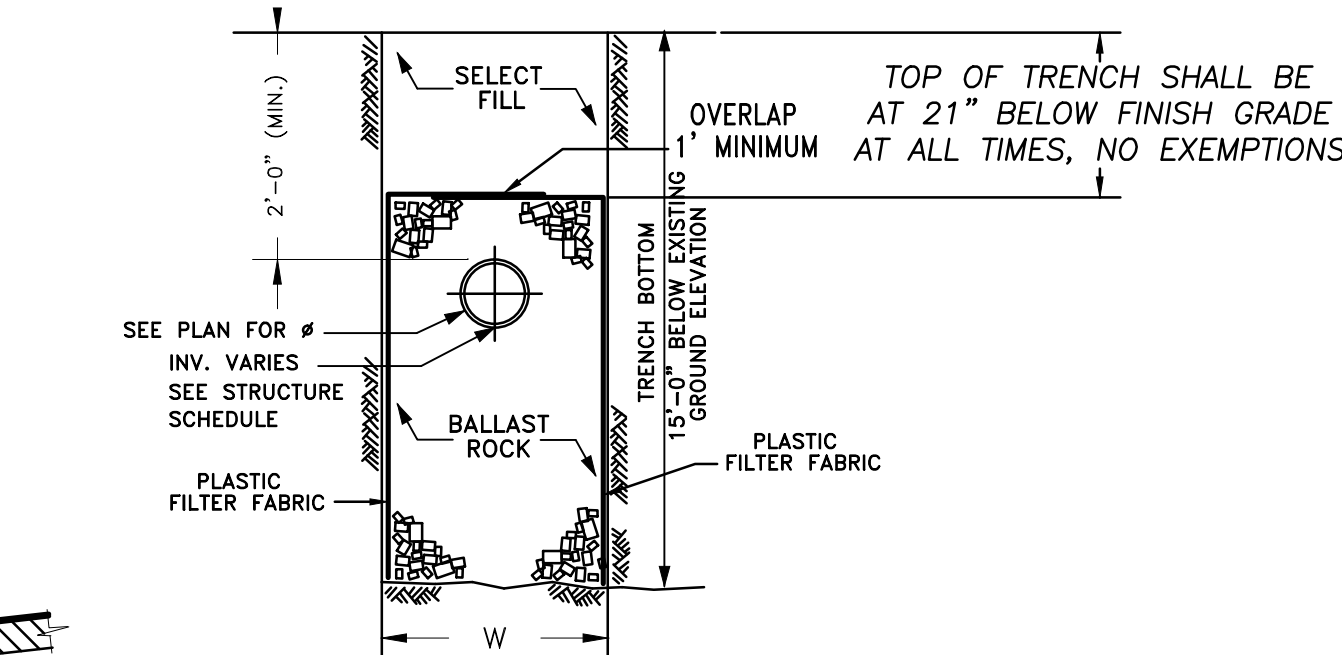
USF #4700 & 6223 GRATE  
HINGED FRAME

N.T.S.



2' VALLEY GUTTER

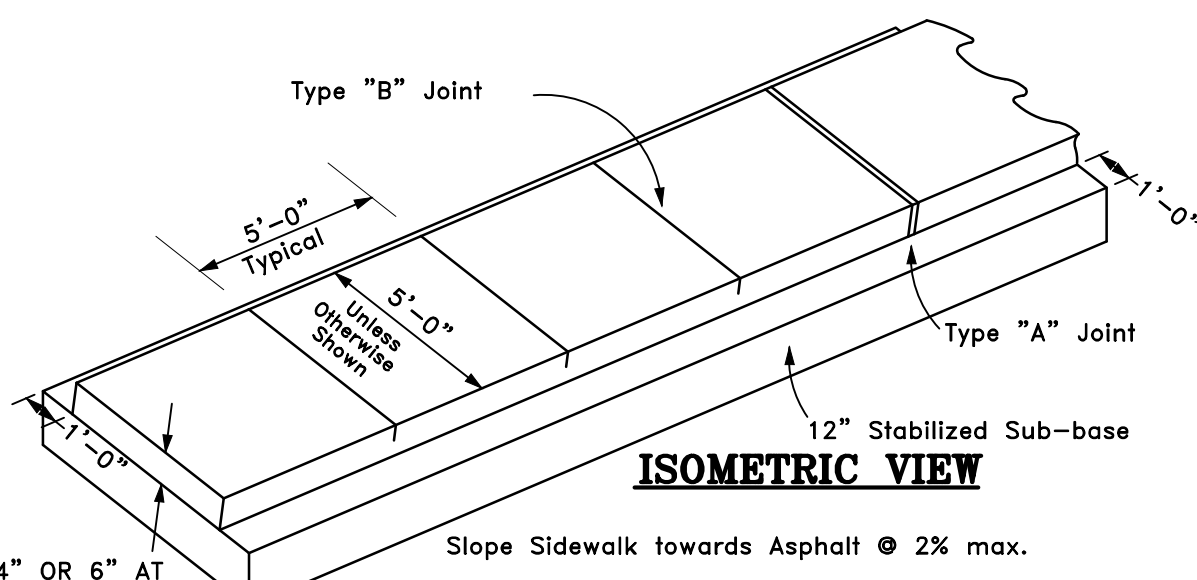
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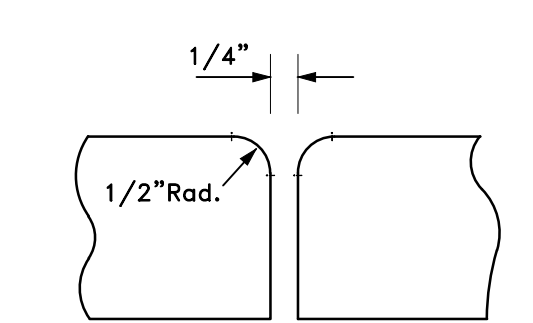
NOTES:  
W=3.0' FOR 15" PIPES  
W=4.0' FOR 18" AND 24" PIPES

TRANSVERSE SECTION

- NOTES:
- PLASTIC FILTER FABRIC (AT EACH SIDE, TOP AND BOTTOM) SHALL BE USED IN SANDY AREAS AS NOTED ON PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
  - THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
  - AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
  - INVERT ELEVATION TO BE AS SHOWN IN THE STRUCTURE TABLE  
AVERAGE OCTOBER GROUND WATER ELEV.= 3.50
  - FILTER FABRIC SHALL BE MIRAFI FW404 OR EQUAL.

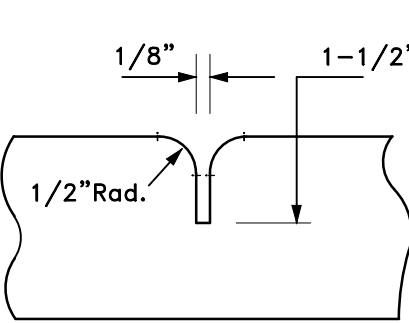


ISOMETRIC VIEW



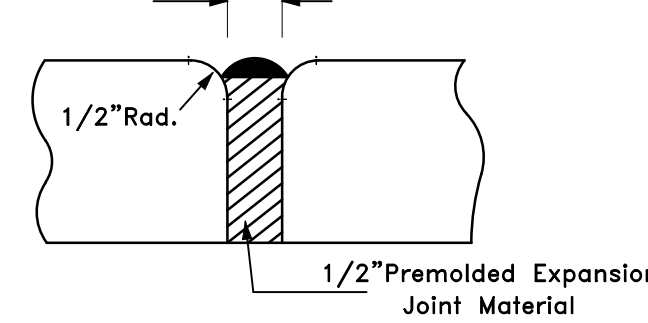
Type "A" Joint

- all P.C. & P.T.s of Sidewalk,
- Junctions with Existing Sidewalk,
- & 20 L.F. Intervals.



Type "B" Joint

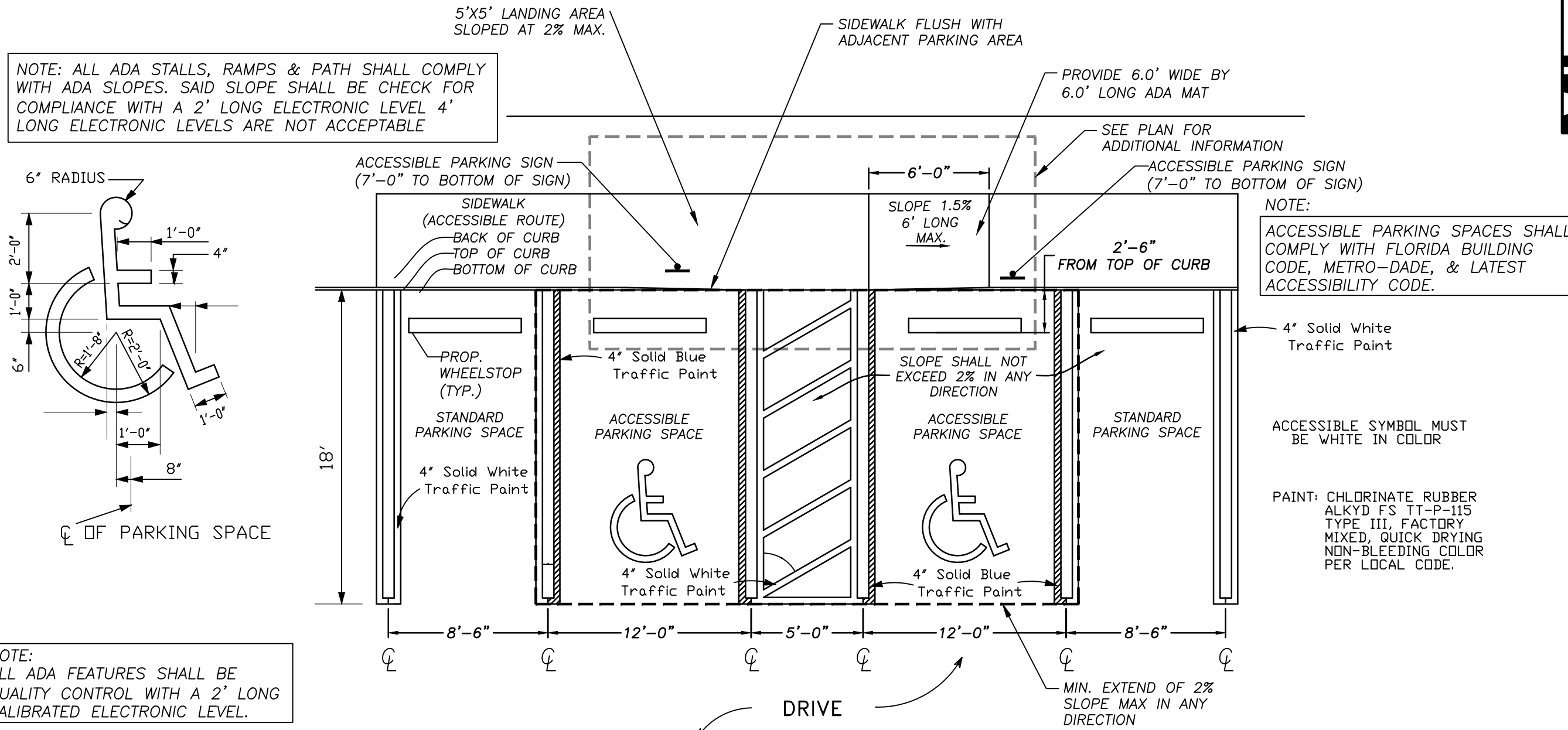
- 5 L.F. Intervals



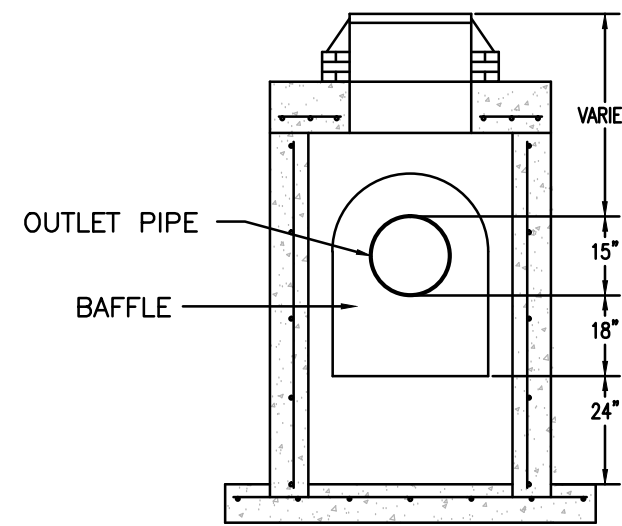
Type "C" Joint

- Where Sidewalk Abuts Driveways and Concrete Curbs etc.

SIDEWALK DETAILS

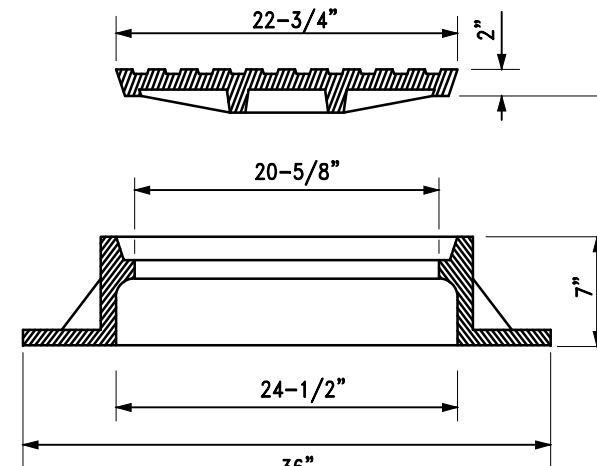


ACCESSIBLE SYMBOL & PARKING  
DETAIL

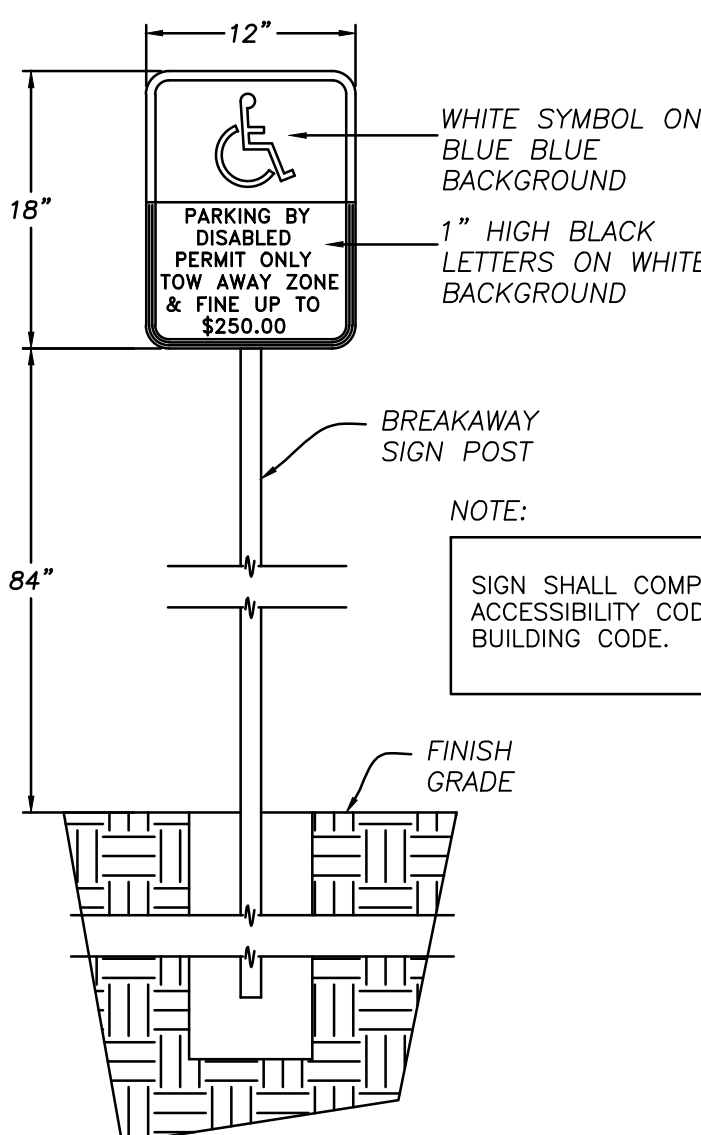


BAFFLE INSTALLATION DETAIL

N.T.S.



USF# 420 C  
MANHOLE FRAME & LID



ACCESSIBLE PARKING SIGN

SEE DADE COUNTY PUBLIC WORKS CRITERIA  
FOR ADDITIONAL SIGN SPECIFICATIONS

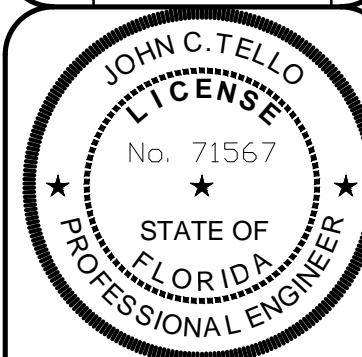
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CIVIL ENGINEERS  
LAND PLANNERS  
LB#87 CA#87

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MIRAMAR, FL 33025  
TEL: (305)652-7010  
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REVISIONS

Date	Remarks	By



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**VILLAGE AT THE LAKES**  
PAVING, GRADING AND DRAINAGE  
DETAILS  
TOWN OF MIAMI LAKES, Florida SEC. 22, Trwp. 52, Rge. 40

Drawn By: EMM Date: 11/01/16

Checked By: JCT Date: 11/21/16

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By: JOHN C. TELLO  
ASST. VICE-PRESIDENT  
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State of Florida

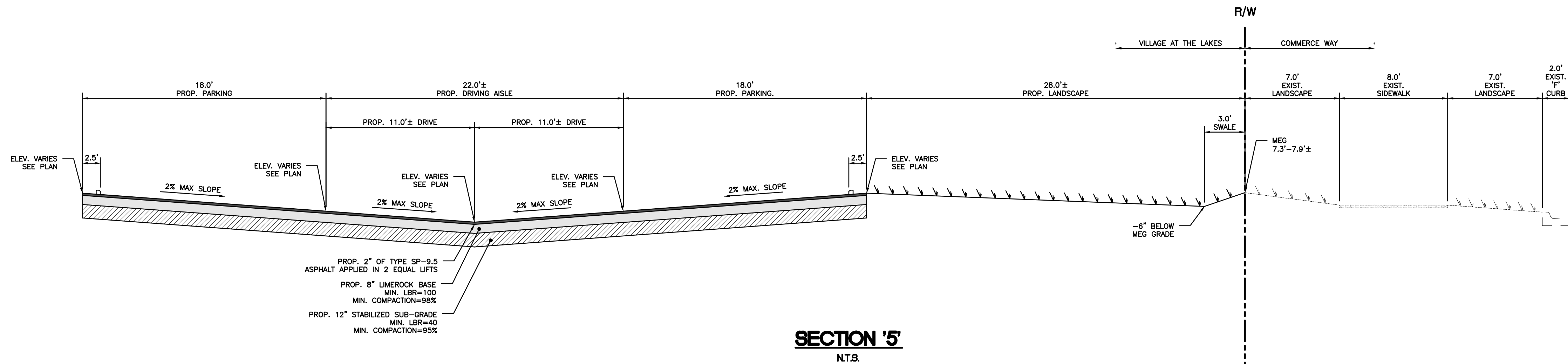
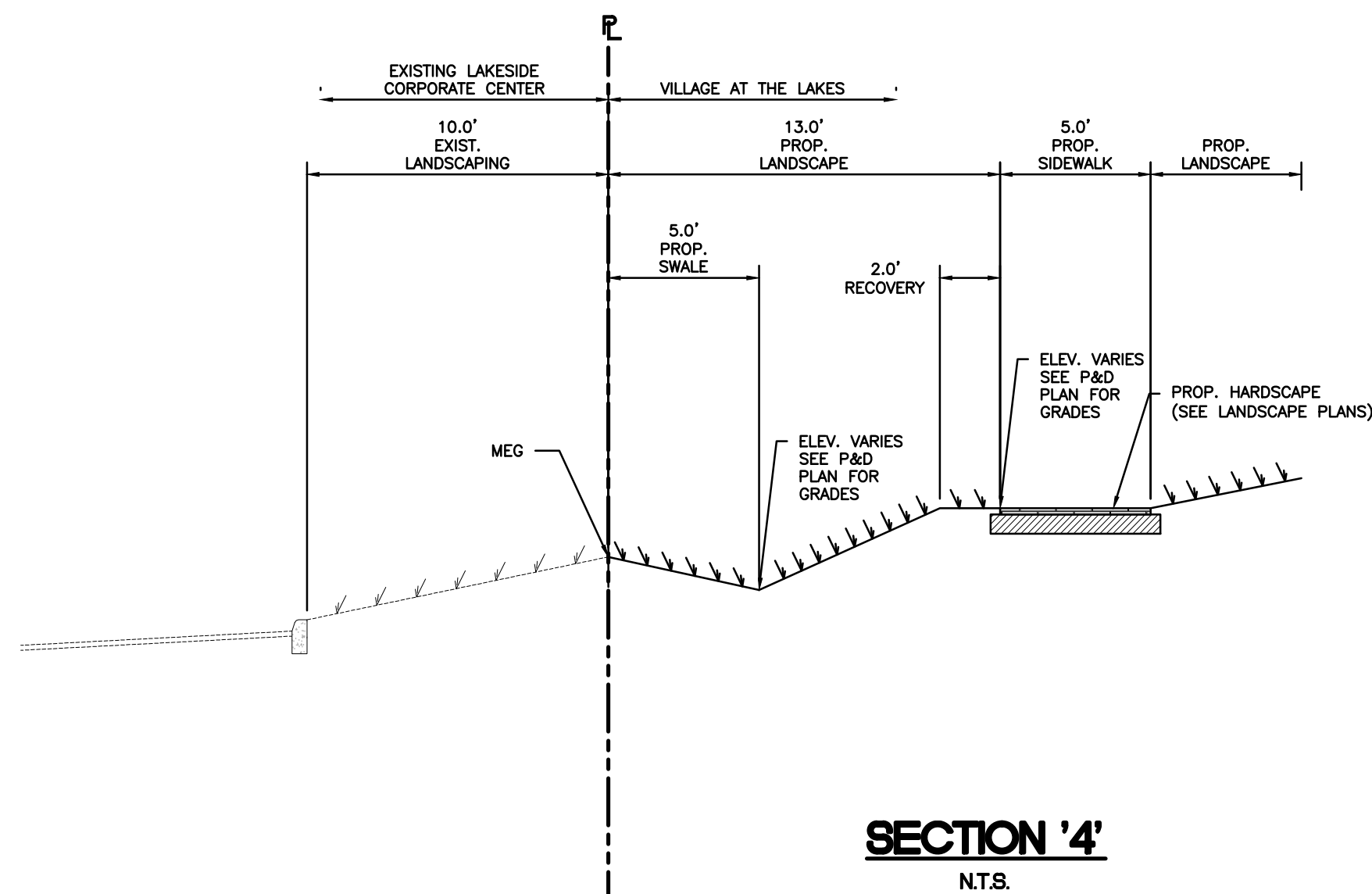
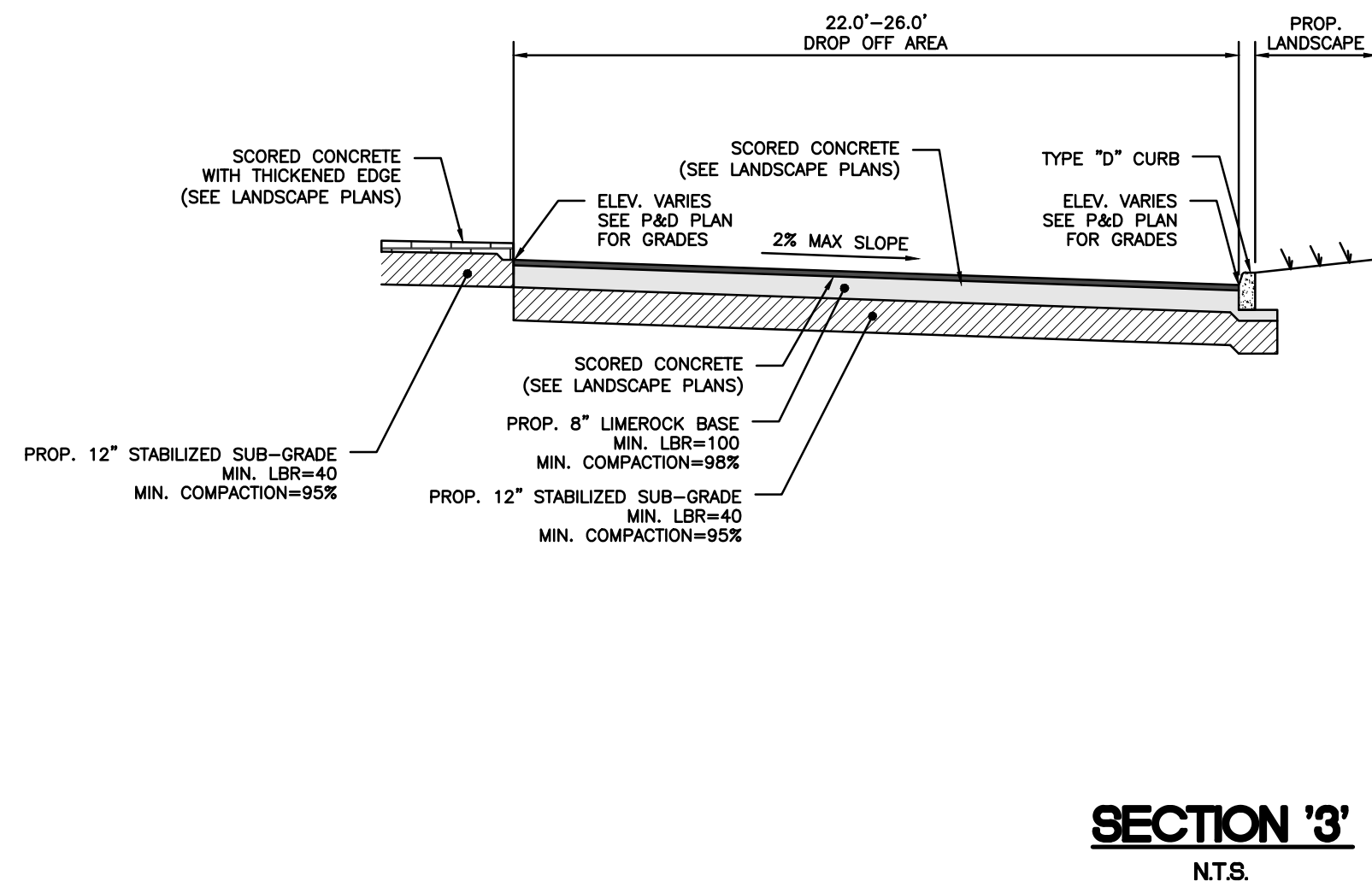
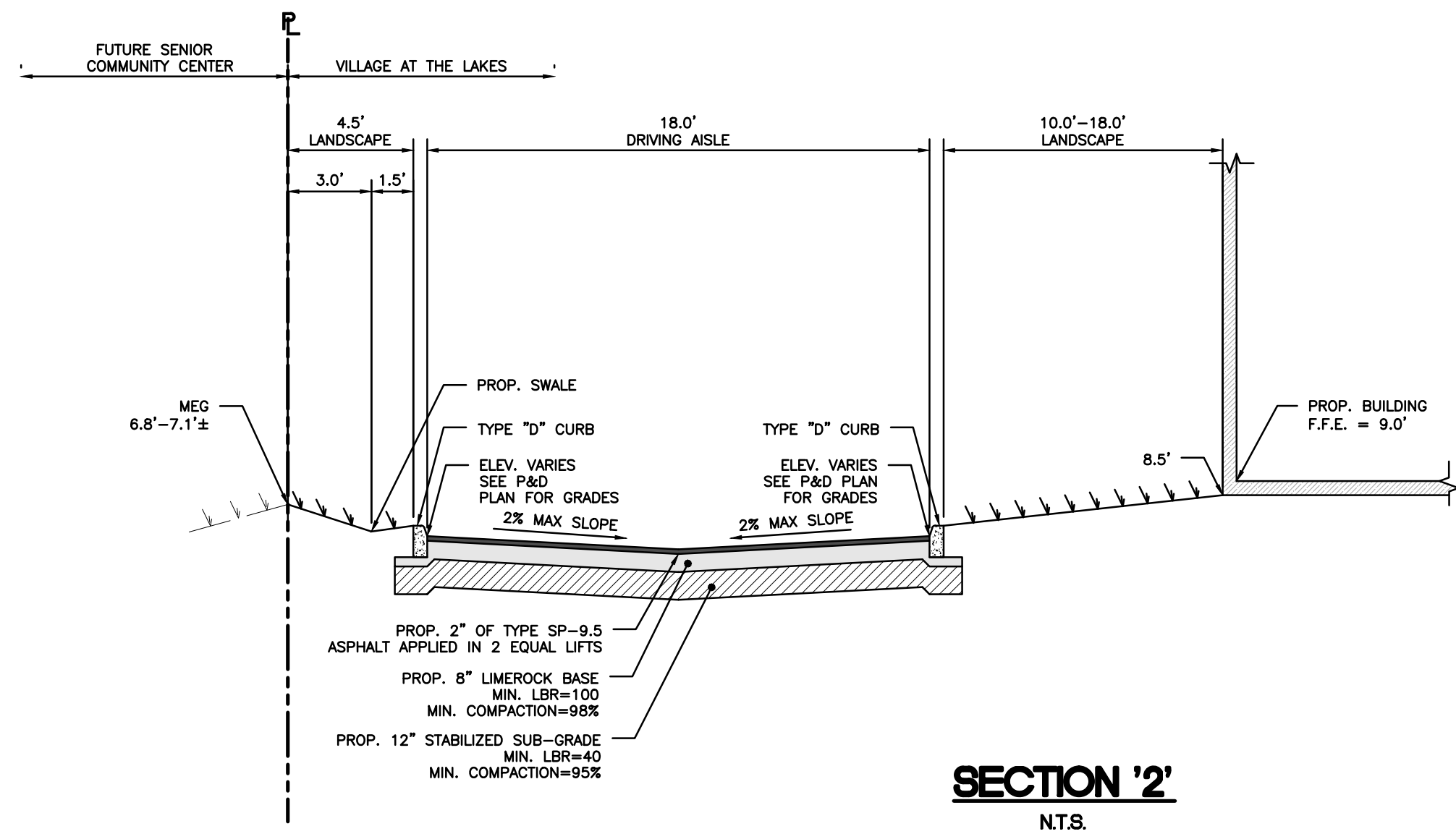
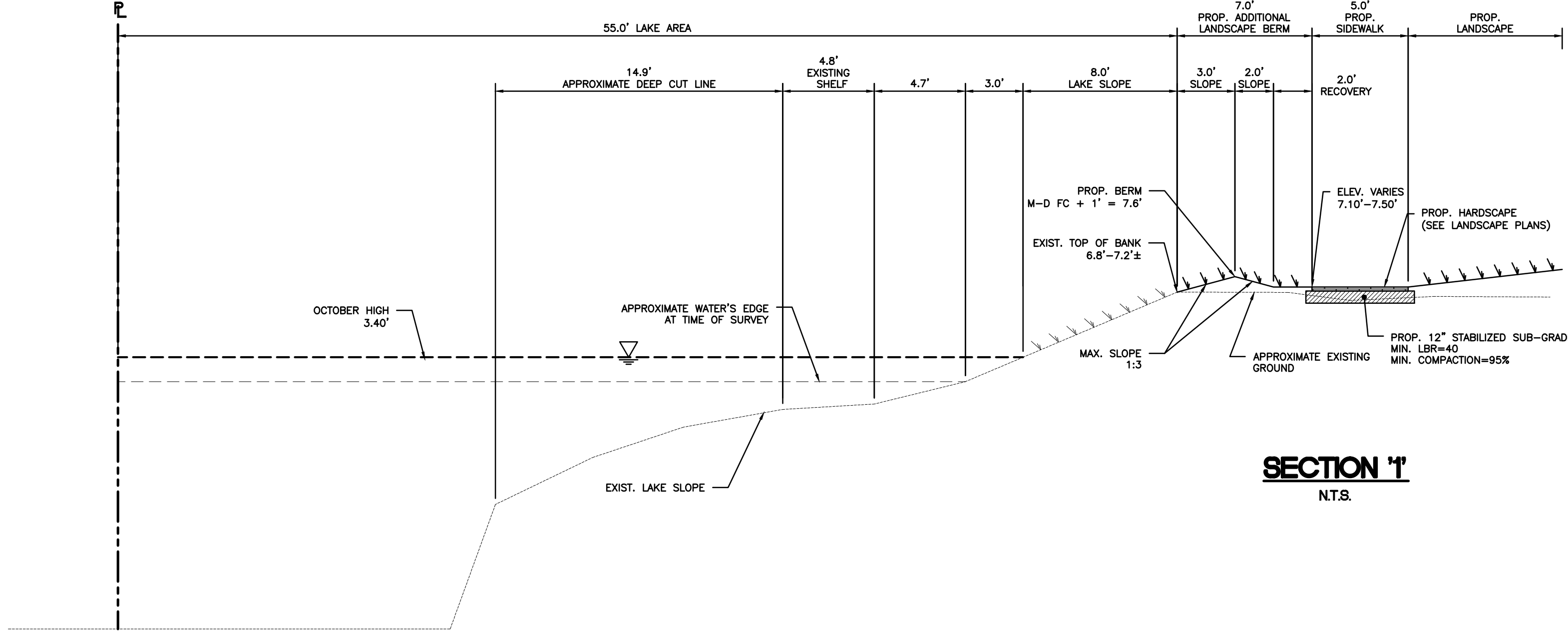
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Dwg. No: C-9

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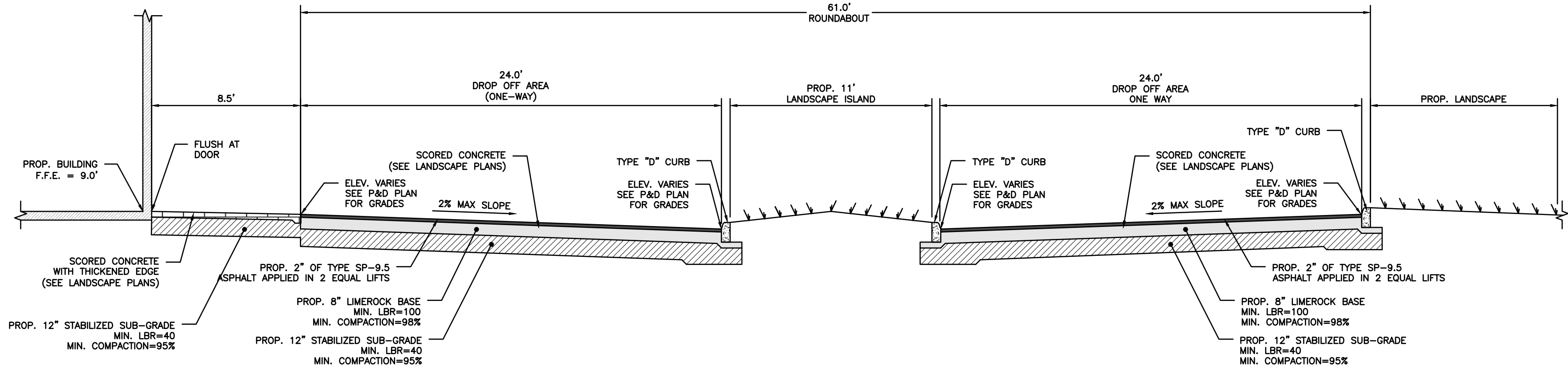
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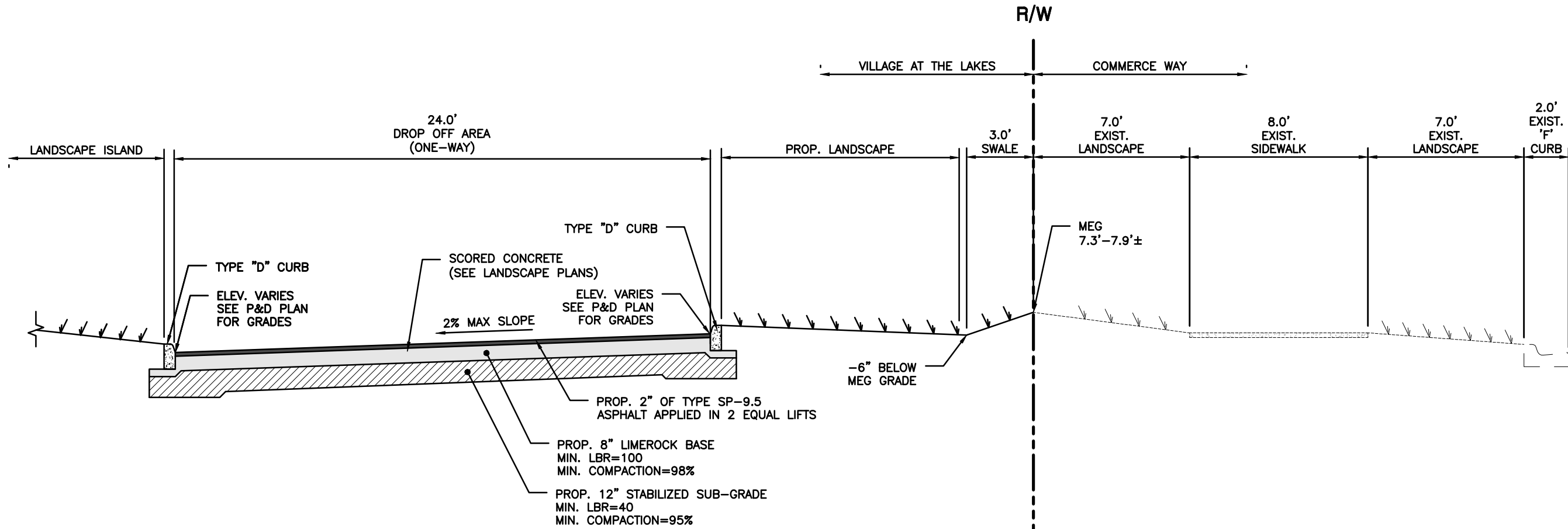
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LICENSE  
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STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
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Miami Jewish Health  
VILLAGE AT THE LAKES  
PAVING, GRADING AND DRAINAGE  
SECTIONS  
TOWN OF MIAMI LAKES, Florida SEC. 22, Trp. 52, Rge. 40

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OF: 17



SECTION '6'  
N.T.S.



SECTION '7'  
N.T.S.

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Miami Jewish Health

VILLAGE AT THE LAKES

PAVING, GRADING AND DRAINAGE  
SECTIONS

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

Order No. 206302 FB. 00000 Pg. 00

Sketches &  
Drawing Status: PERMIT SET

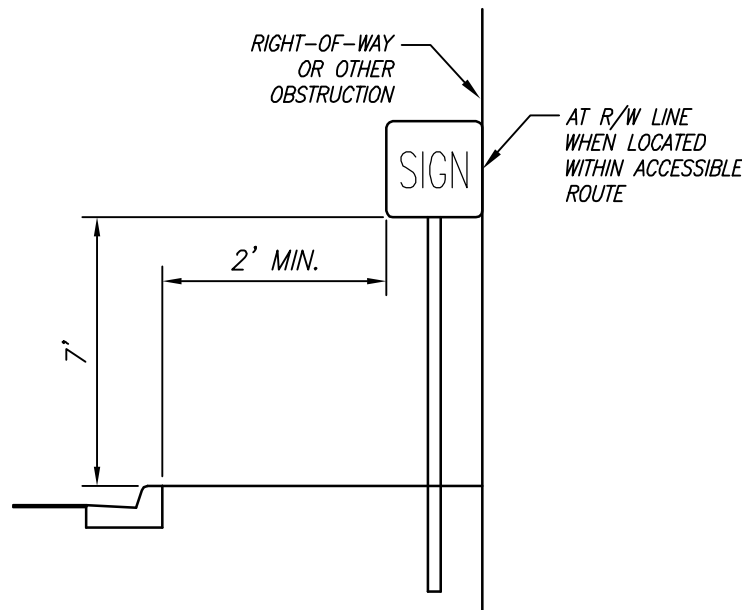
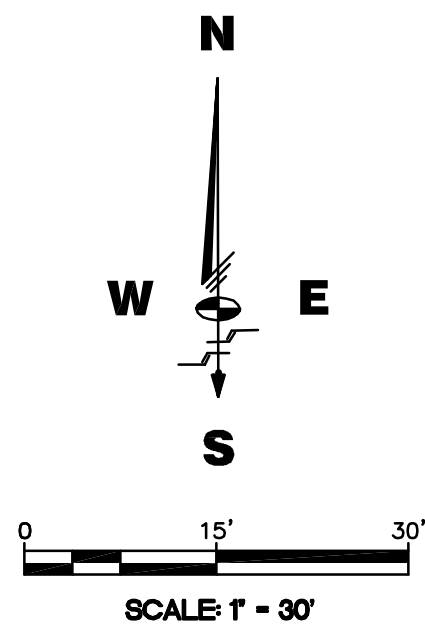
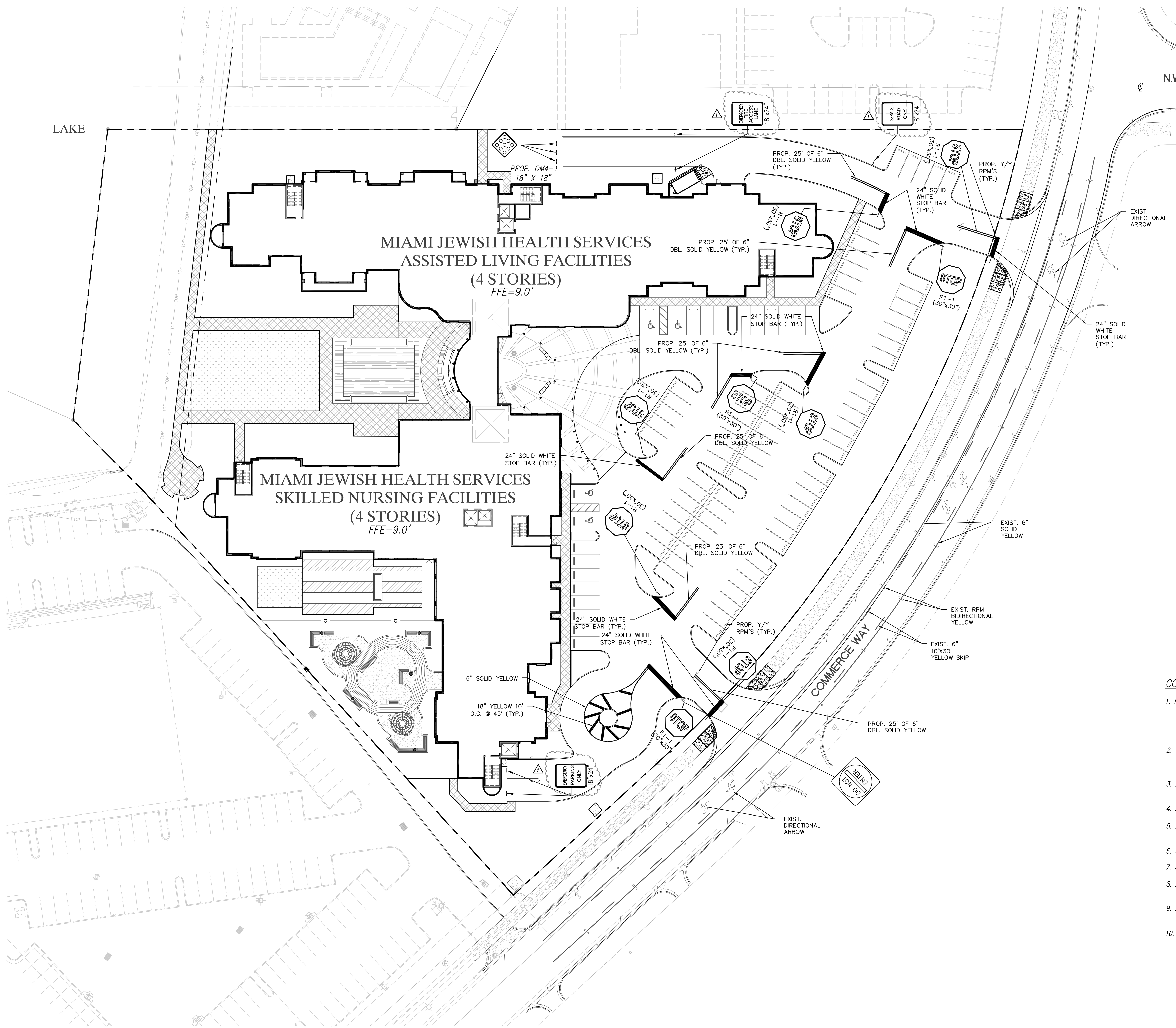
By: JOHN C. TELLO  
ASST. VICE-PRESIDENT  
Registered Engineer No. 71567  
State of Florida

Scale: As Noted

File No. ML-1161

Dwg. No: C-11  
OF: 17





PER FDOT STANDARD  
INDEX # 17302  
**SIGN PLACEMENT  
DETAIL**

**CONSTRUCTION & DEMOLITION NOTES**

1. RELOCATION OF POLES AND OTHER UTILITIES SHALL COMPLY WITH MINIMUM CLEAR ZONE REQUIREMENTS AS SPECIFIED BY FDOT. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR LOCATION OF POLES OR OTHER UTILITIES, IF NOT SHOWN ON THE PLANS, TO INSURE THAT THE AFOREMENTIONED IS INSTALLED IN COMPLIANCE WITH THE MINIMUM CLEAR ZONE REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING MAINTENANCE OF TRAFFIC (MOT) PLANS CONFORMING TO FDOT DESIGN STANDARD INDEX 600 SERIES WHEN SUBMITTING PLANS FOR PERMITTING.
3. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (2009).
4. ALL PROPOSED SIGNS SHALL BE HIGH INTENSITY REFLECTIVE MATERIAL.
5. ALL SIGNS SHALL BE PLACED AT A HEIGHT OF 7" (HEIGHT IS MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF NEAREST PAVEMENT).
6. SIGN POSTS SHALL BE PLACED PER F.D.O.T. STANDARD INDEX 17302.
7. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
8. ALL PAVEMENT MARKINGS WITHIN THE RIGHT-OF-WAY TO BE IN ACCORDANCE W/ F.D.O.T. INDEX No. 17346, 17352.
9. ALL M.O.T. SIGNS AND LANE CLOSURES SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED BEFORE 9:00 A.M. AND ARE TO BE OPENED BY 4:00 P.M.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING MAINTENANCE OF TRAFFIC (M.O.T.) PLANS TO MIAMI DADE COUNTY AND FDOT.

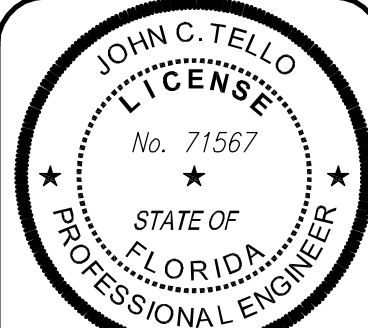
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Shishkin &  
Associates, Inc.

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3240 CORPORATE WAY  
MIRAMAR, FL 33025  
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**REVISIONS**

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



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**Miami Jewish Health**  
**VILLAGE AT THE LAKES**  
PAVEMENT MARKING AND SIGNAGE  
PLAN  
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. 206302 FR Sketches & 00000 Pg. 00

Drawing Status: PERMIT SET

By:  
**JOHN C. TELLO**  
ASST. VICE-PRESIDENT  
Registered Engineer No. 71567  
State of Florida

Scale: As Noted

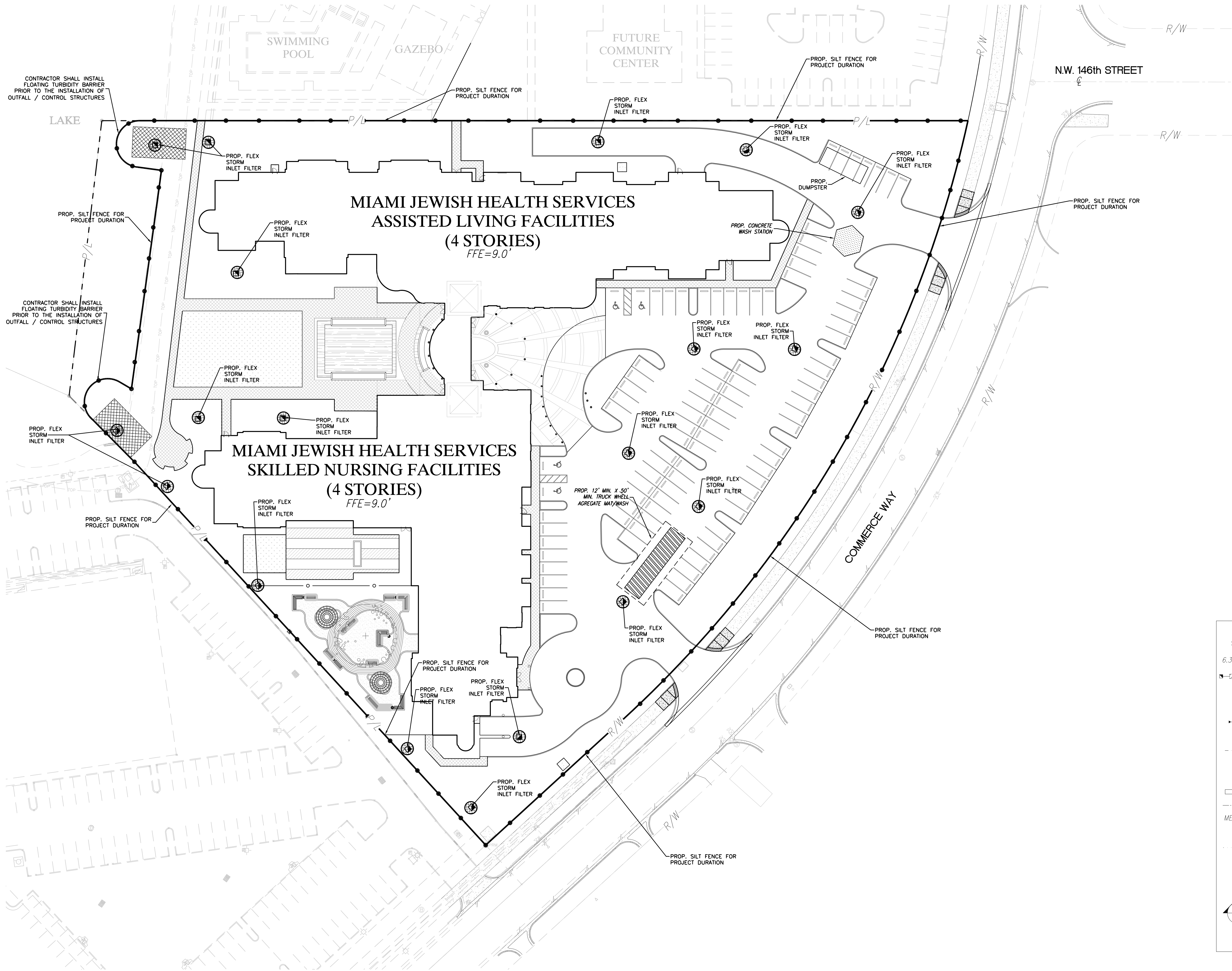
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Dwg. No:

**C-12**

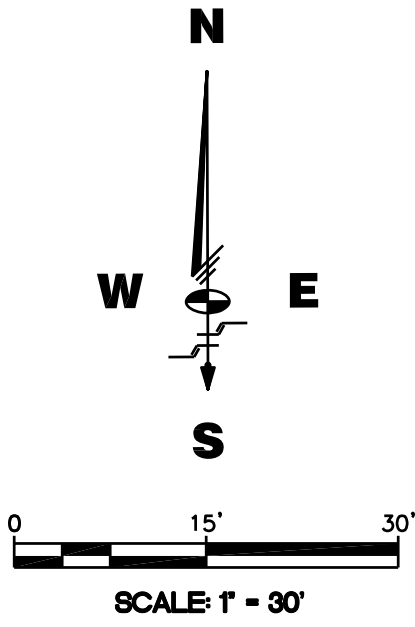
OF: 17





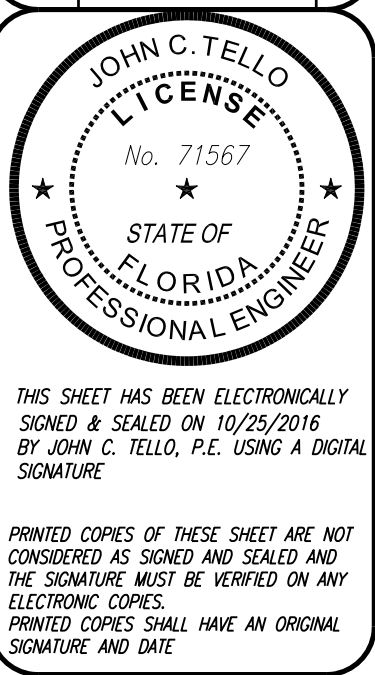
- EXISTING FEATURES LEGEND:**
- DENOTES EXISTING FIRE HYDRANT
  - DENOTES EXISTING ELEVATIONS
  - DENOTES WATER VALVE
  - DENOTES WOOD LIGHT POLE
  - DENOTES WOOD POWER POLE
  - DENOTES PROPERTY LINE
  - DENOTES RIGHT OF WAY LINE
  - DENOTES SANITARY SEWER CLEANOUT
  - DENOTES SANITARY SEWER MANHOLE
  - DENOTES FORCE MAIN MANHOLE
  - DENOTES FORCE MAIN VALVE
  - DENOTES F.P.L. ELECTRIC MANHOLE
  - DENOTES F.P.L. TRANSFORMER PAD
  - DENOTES CATCH BASIN
  - DENOTES EXISTING TREE
  - DENOTES IRRIGATION VALVE
  - DENOTES GUARD POST
  - DENOTES STORM SEWER MANHOLE
  - DENOTES SIGN POST
  - DENOTES ALUMINUM POST

- PROPOSED FEATURES LEGEND:**
- DENOTES PROPOSED ELEVATION
  - DENOTES PROPOSED FRENCH DRAIN W/ BAFFLE
  - DENOTES PROPOSED INVERT W/ BAFFLE
  - DENOTES PROPOSED INVERT ELEVATION
  - DENOTES PROPOSED SLOPE TIPS
  - DENOTES FLOW DIRECTION
  - DENOTES PROPOSED RIDGE LINE
  - DENOTES RAMP UP DIRECTION
  - DENOTES PROPOSED SIGN
  - DENOTES PROPOSED WHEEL STOP
  - DENOTES PROPOSED CENTERLINE
  - DENOTES MATCH EXISTING GRADE
  - DENOTES PROPOSED DRAINAGE MANHOLE
  - DENOTES PROPOSED SAWCUT LINE
  - DENOTES PROPOSED CONC. SIDEWALK
  - DENOTES PROPOSED PAVING
  - DENOTES CROSS-SECTION NAME
  - DENOTES PROPOSED CROSS-SECTION
  - DENOTES SHEET NUMBER



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REVISIONS		
Date	Remarks	By



**Miami Jewish Health**  
**VILLAGE AT THE LAKES**  
EROSION AND SEDIMENT CONTROL  
PLAN  
TOWN OF MIAMI LAKES, Florida SEC. 22, Twp. 52, Rge. 40

Drawn By: **BM** Date: 11/01/18  
Checked By: **JCT** Date: 11/21/18  
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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-13**  
OF: 17



# FLEXSTORM OPERATION & MAINTENANCE PLAN

Installation Instructions:

1. Remove the grate from the casting or concrete drainage structure.
2. Clean the ledge (lip) of the casting frame or drainage structure to ensure it is free of stone and dirt.
3. Drop in the FLEXSTORM Inlet Filter through the clear opening and be sure the suspension hangers rest firmly on the inside ledge (lip) of the casting.
4. Replace the grate and confirm it is elevated no more than 1/8", which is the thickness of the steel hangers.

Frequency of Inspections:

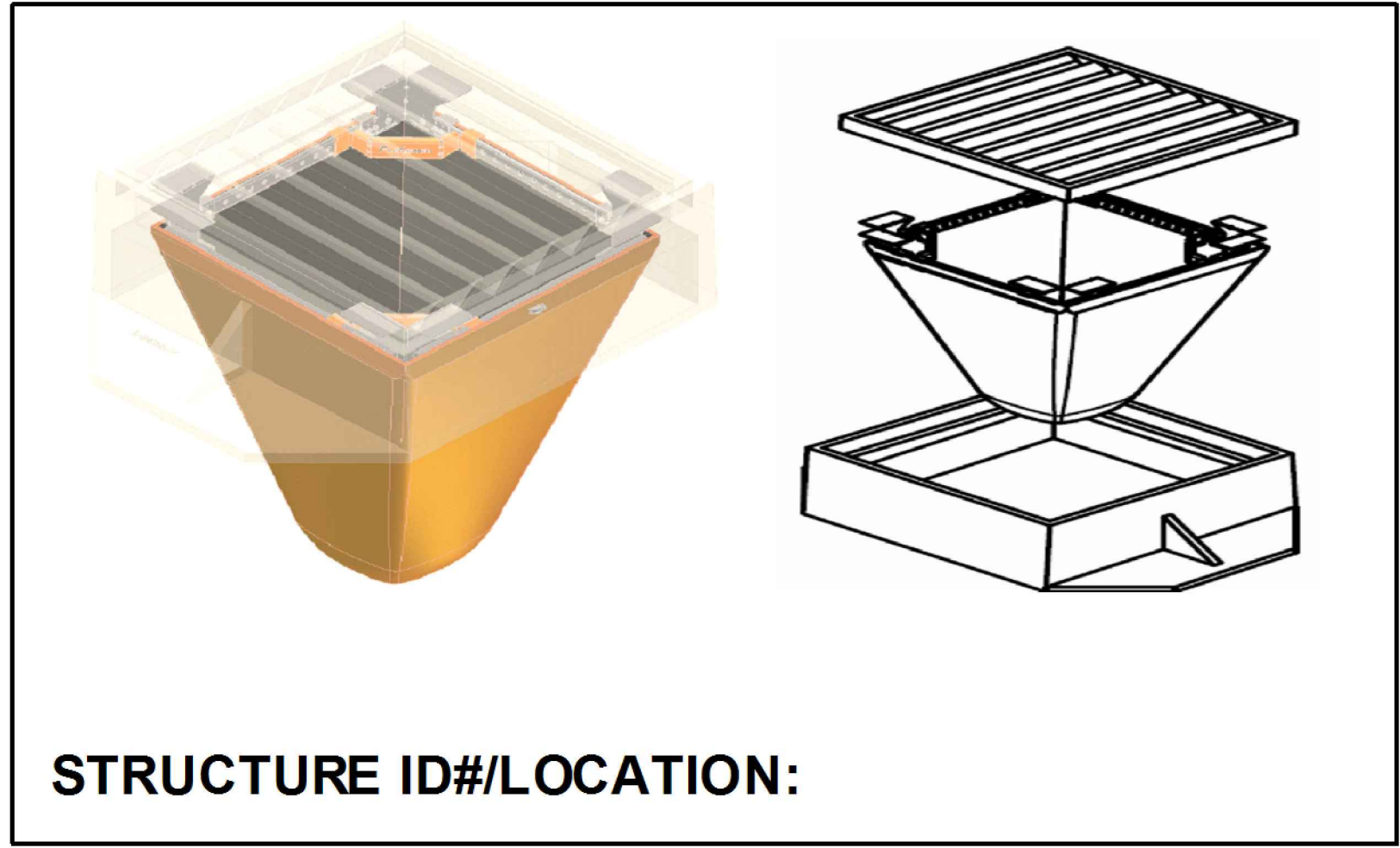
1. Construction site inspection should occur following each ½" or more rain event.
2. Post Construction inspections should occur three times per year (every four months) in areas with mild year round rainfall and four times per year (every three months Feb-Nov) in areas with summer rains before and after the winter snowfall season.
3. Industrial application site inspections (loading ramps, wash racks, maintenance facilities) should occur on a regularly scheduled basis no less than three times per year.

Maintenance Guidelines:

1. Empty the sediment bag if more than half filled with sediment and debris, or as directed by the Engineer.
2. Remove the grate, engage the lifting bars or handles with the FLEXSTORM Removal Tool, and lift from the drainage structure.
3. Dispose of the sediment or debris as directed by the Engineer or Maintenance Contract in accordance with EPA guidelines.
4. As an alternative, an industrial vacuum may be used to collect the accumulated sediment.
5. Remove any caked on silt from the sediment bag and reverse flush the bag with medium spray for optimal filtration.
6. Replace the bag if torn or punctured to 1/2" diameter or greater on the lower half of the bag.
7. Post Construction PC Bags maint: At 50% saturation, the average 2' x 2' Adsorb-it lined PC filter will retain approx 75 oz (4.2 lbs) of oil and should be serviced or replaced. It can be centrifuged or passed through a wringer to recover the oils, and the fabric reused with 85% to 90% efficacy. It may also be recycled for its fuel value through waste to energy incineration.
8. MyCelx Skimmer Pouches: The skimmers start yellow in color and will gradually turn brown as they become saturated, indicating time for replacement. Each MyCelx skimmer pouch will absorb approximately 89 oz (5 lbs) of oil before requiring replacement.
9. Dispose of all oil contaminated products in accordance with EPA guidelines.

## Sediment Bag Replacement:

1. Remove the bag by loosening or cutting off the clamping band.
2. Take the new sediment bag, which is equipped with a stainless steel worm drive clamping band, and use a screw driver to tighten the bag around the frame channel.
3. Ensure the bag is secure and that there is no slack around the perimeter of the band.

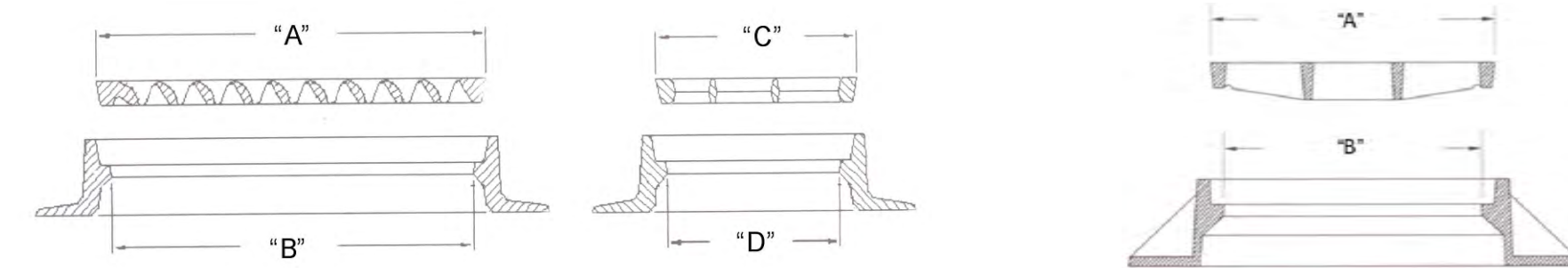


STRUCTURE ID#/LOCATION:

[illegible]

## 1. IDENTIFY YOUR FRAME STYLE, SIZE, AND MATERIAL

STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20.0" dia grates (A) dim)	62SRD
	Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B))	62LRD
	XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B))	62XLRD
RECT/ SQUARE	Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter)	62SSQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 96" perimeter)	62MSQ
	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings)	62XLSQ
COMBO INLETS	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62SCB
	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62LCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62XLCB
NYLOPLAST	12" diameter Nyloplast castings (Stainless Steel Framing standard)	6212NY
	15" diameter Nyloplast castings (Stainless Steel Framing standard)	6215NY
	18" diameter Nyloplast castings (Stainless Steel Framing standard)	6218NY
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	6224NY
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	6230NY
WALL MOUNT	Open Throat Gutters - Curb Opening Size	
	Up to 4' (1 Filter and Mounting Hardware)	62WM1
	Between 4' and 8' (2 Filters and Mounting Hardware)	62WM2
	Between 8' and 12' (3 Filters and Mounting Hardware)	62WM3
	Between 12' and 16' (4 Filters and Mounting Hardware)	62WM4
UPGRADED FRAMING MATERIAL OPTIONS (STANDARD IS ZINC PLATED)		SUFFIX
CHROME PLATED FRAMING FOR HIGH SALT EXPOSURE		- CHR
STAINLESS STEEL FRAMING FOR HIGH SALT AND/OR CHEMICAL EXPOSURE		- SS



## 2. SELECT YOUR FILTER BAG PART NUMBER

FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX-S	200	40
FX+: Woven w/ MyCelx	FXP	FXP-S	200	40
FXO: Woven w/ Oil Boom	FXO	FXO-S	200	40
PC: Post Construction Bag	PC	PC-S	137	140
PC+: PC Bag w/ MyCelx	PCP	PCP-S	137	140
LL: Litter and Leaf Bag	LL	LL-S	High	3.5
IL: IDOT Non-Woven Bag	IL	IL-S	145	70

### 3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

		-	
--	--	---	--

Frame P/N from Step 1.	Filter Bag P/N from Step 2.		Framing Material
------------------------	-----------------------------	--	------------------

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE						
Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max			* PC Oil Retent (Oz )	**PC Oil Retent (Oz)
		FX (Woven)	PC (Post Constr)	IL (Non Woven)		
Small	1.6	1.2	0.8	0.9	66	155
Medium	2.1	1.8	1.2	1.3	96	185
Large	3.8	2.2	1.5	1.6	120	209
XL	4.2	3.6	2.4	2.6	192	370

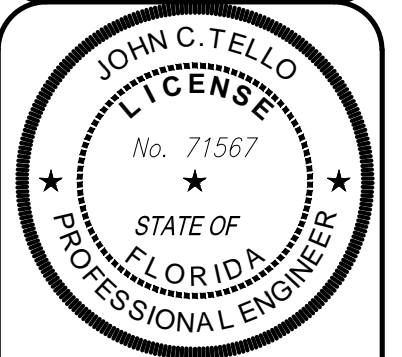
\* PC filter bag at 50% max adsorption capacity

\*\* PC filter bag at 50% capacity and MyCelix skimmer at 100% capacity

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LB#87 CA#87

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## REVISIONS

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

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