

RESOLUTION No. 18-94

A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING THE SITE PLAN FOR BAPTIST HEALTH EMERGENCY CENTER DORAL, LOCATED ON THE SOUTH SIDE OF NW 58 STREET EAST OF NW 97 AVENUE, DORAL, FLORIDA 33178; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on November 2, 2016, the City of Doral adopted Ordinance No. 2016-29 amending the City's Land Development Code to establish procedures for the Mayor and City Council site plan review and approval process;

WHEREAS, Joseph G. Goldstein, Esq, representing Baptist Health South Florida, Inc. (the "Applicant") has submitted an application for Mayor and Council site plan review and approval for "Baptist Health Emergency Center Doral" generally located on the south side of NW 58th Street east of NW 97th Avenue Doral, FL 33178 identified by Folio Numbers 35-3021-001-0312, 35-3021-001-0314, and 35-3021-001-3015 as legally described in Exhibit "A"; and

WHEREAS, staff recommends approval of the proposed site plan provided in Exhibit B; and

WHEREAS, the site plan is consistent with all the requirements and standards set forth in Section 53-184 (3) of the Land Development Code.

WHEREAS, pursuant to law, notice has been given by publication in a paper of general circulation in the City, notifying the public of this proposed Resolution and of the public hearings; and

WHEREAS, the Mayor and City Council of the City of Doral finds that the adoption and implementation of this Resolution is in the best interest and welfare of the residents of the City.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AS FOLLOWS:

Section 1. Recital. The above recitals are confirmed, adopted, and incorporated herein and made a part hereof this reference.

Section 2. Approval of Site Plan. The site plan for “Baptist Health Emergency Center Doral” provided in Exhibit “B”, providing for a two-story, 43,599 square foot medical office building consisting of a stand-alone Emergency Department on the ground floor and medical offices on the second floor, is approved, is subject to the following conditions.

1. All applicable impact fees shall be paid by the Applicant prior to issuance of a building permit;
2. The proposed project shall be built in substantial conformance with the plans entitled “Baptist Health Emergency Center Doral” prepared by Gresham, Smith, and partners, consisting of 45 sheets, dated stamped received May 10, 2018;
3. The Property shall be landscaped in accordance with the landscape plan, prepared by Kimley-Horn and Associates, Inc., dated stamped received May 10, 2018, as amended, and included with the site plan submittal;
4. All EMS vehicles transporting people with a health situation that may be life threatening to and from the “Free-Standing Emergency Center Doral” shall turn-off their sirens and emergency lights at least one block away from the entrance to the emergency facility. If the roads leading into the facility are congested, the EMS vehicles will be permitted to keep its sirens and emergency lights on until it reaches the entrance to the facility;
5. Miami-Dade County Public Works (MDCPW) Traffic Division approval is required for the Site Plan and the Traffic Study;
6. Median R/W improvements may be required (to be coordinated with MDCPW) to prevent NW 58 Street westbound left turns into the western, one-way inbound driveway (intended to serve eastbound inbound right turns only);

7. Maximize the radii at all curbed corners of the parking areas to 5' (adjacent to landscaped islands and parking row ends, where allowable);
8. Issuance of this development permit by the City of Doral does not in any way create any right on the part of an Applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the City of Doral for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law;
9. Approval from Division of Environmental Resources Management (DERM) is required at time of building permit. If DERMs' requirements result in a modification to the approved administrative site plan, which may include but is not limited to, the layout of proposed parking field, the Applicant will be fully responsible to meet those requirements prior to building permit approval;
10. Approval from Miami Dade County Fire Department is required at time of building permit;
11. All applicable local, state and federal permits must be obtained before commencement of the development;
12. The project should make every effort to incorporate the city's Low Impact Development Master Plan (LIDMP) and Section 74-881 of the Land Development Code;
13. Provide compliance with the Floodplain Management regulations (Chapter 23, Article II, Floodplain Management) of the City Land Development Code. Project team should contact the City's Floodplain Administrator to review the requirements of the Floodplain Management Ordinance;
14. Applicant shall indicate how the project will meet the requirement of the LDC Sec. 77-195 of the city Land Development Code Solar Reflective Index (SRI) of 28 or greater;
15. Applicant shall indicate how the project will meet the City's Green Ordinance requirements in Chapter 63 of the Land Development Code;
16. The Applicant shall comply with applicable conditions and requirements provided by Miami-Dade County Public Works Department, Water and Sewer Department, Fire Rescue Department, and Regulatory and Economics Resources (DRER) prior to issuance of building permit;
17. The hours of operation during the construction shall adhere to as per Noise Ordinance No. 2011-01;
18. The Applicant shall submit a construction staging plan for review and approval prior to commencement of construction. The staging area shall be kept clean at all times, adequately screened and located away from view of existing homes located adjacent to the construction site;

19. Access points for construction vehicles shall be identified as part of the construction plan submitted to the City. Construction vehicles with access to the site shall adhere to existing “no thru truck” areas;
20. The Applicant shall provide a Construction Air Quality Management Plan to the Department prior to the start of construction;
21. A Stormwater Pollution Prevention Plan (SPPP) must be submitted by the Applicant at time of building permit. The Plan should provide guidelines for implementing an erosion and sedimentation control program before the site is cleared or graded, including areas where top soil will be removed and contours of slopes will be cleared. The Plan shall also include location and type of erosion control measures, storm water and sediment management systems, and a vegetative plan for temporary and permanent stabilization. The Plan shall remain on-site for the duration of the construction activity;
22. The Applicant shall preserve existing trees (including native trees) during the development of the project, wherever possible. If the trees must be removed, the Applicant shall be required to mitigate the impact in accordance with DRER requirements. If the relocated trees do not survive, the Applicant shall be required to replace the trees in compliance with DRER requirements;
23. The Applicant shall meet the requirements of the Miami-Dade County Water-Use Efficiency Standards Manual, effective January 2009, as may be amended from time to time;
24. All stormwater shall be retained on site in accordance with applicable law;
25. All stormwater drainage systems shall be maintained in working conditions at all times in order to avoid localize flooding during and after a storm;
26. Parking shall be prohibited on top of any drainage inlet or drainage manhole;
27. Developer shall be responsible for providing the City a certified drainage inspection report prior to the issuance of a certificate of occupancy;
28. Noncompliance with the approved site plan and the terms of this approval shall be considered a violation of the City Code;

Violation of the conditions may result in a code compliance citation or the revocation of the permit.

Section 3. Implementation. The City Manager and City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and provisions of this Resolution.

Section 4. Effective Date. This Resolution shall become effective upon its passage and adoption by the City Council, is binding on all successors, and assigns.

The foregoing Resolution was offered by Vice Mayor Rodriguez who moved its adoption.

The motion was seconded by Councilmember Mariaca and upon being put to a vote, the vote was as follows:


Mayor Juan Carlos Bermudez	Yes
Vice Mayor Ana Maria Rodriguez	Yes
Councilman Pete Cabrera	Not Present at Time of the Vote
Councilwoman Christi Fraga	Yes
Councilwoman Claudia Mariaca	Yes

PASSED AND ADOPTED this 23 day of May, 2018.



JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:



CONNIE DIAZ, CMC
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY
FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:



WEISS, SEROTA, HELFMAN, COLE & BIERMAN, P.L.
CITY ATTORNEY

EXHIBITS

EXHIBIT A

LEGAL DESCRIPTION:

THE EAST 264.39 FEET OF THE WEST 396.64 FEET OF THE EAST ONE-HALF (E-1/2) OF TRACT 32, SECTION 21, TOWNSHIP 53 SOUTH, RANGE 40 EAST, OF FLORIDA FRUIT LANDS COMPANY SUBDIVISION NO. 1, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 17 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; LESS AND EXCEPT THE NORTH 45 FEET FOR ROAD RIGHT-OF-WAY.

TOGETHER WITH:

THE WEST 132.25 FEET OF THE EAST ONE-HALF (E-1/2) OF TRACT 32, SECTION 21, TOWNSHIP 53 SOUTH, RANGE 40 EAST, OF FLORIDA FRUIT LANDS COMPANY SUBDIVISION NO. 1, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 17, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; LESS AND EXCEPT THE NORTH 40 FEET FOR ROAD RIGHT-OF-WAY;

ALL OF SAID LANDS SITUATED, LYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA.

CONTAINING $\pm 113,763$ SF OR ± 2.61 ACRES.



Site Plan Approval

May 03, 2018



GRESHAM
SMITH AND
PARTNERS

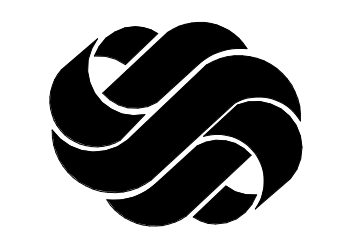
Baptist Health Emergency Center Doral
GS&P No. 42594.00

Baptist Health Emergency Center Doral

9500 NW 58TH STREET DORAL, FL 33178

GS&P No. 42594.00

GUSTAVO ALFONSO
AR 0017009



GS & P

Design Services
For The Built
Environment

Atlanta GA Jacksonville FL
Birmingham AL Knoxville TN
Charlotte NC Louisville KY
Cincinnati OH Memphis TN
Columbus OH Miami FL
Dallas TX Nashville TN
Fort Lauderdale FL Richmond VA
Houston TX Tallahassee FL
Jackson MS Tampa FL

GRESHAM
SMITH AND
PARTNERS

Two Alhambra Plaza
Suite 1200
Coral Gables, Florida 33134
786.532.2100

FIRM'S FLORIDA CERT. NO.
AAP000034/CA3806
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Baptist Health
South Florida

Baptist Health
Emergency
Center Doral

9500 NW 58TH Street · Doral, FL
33178

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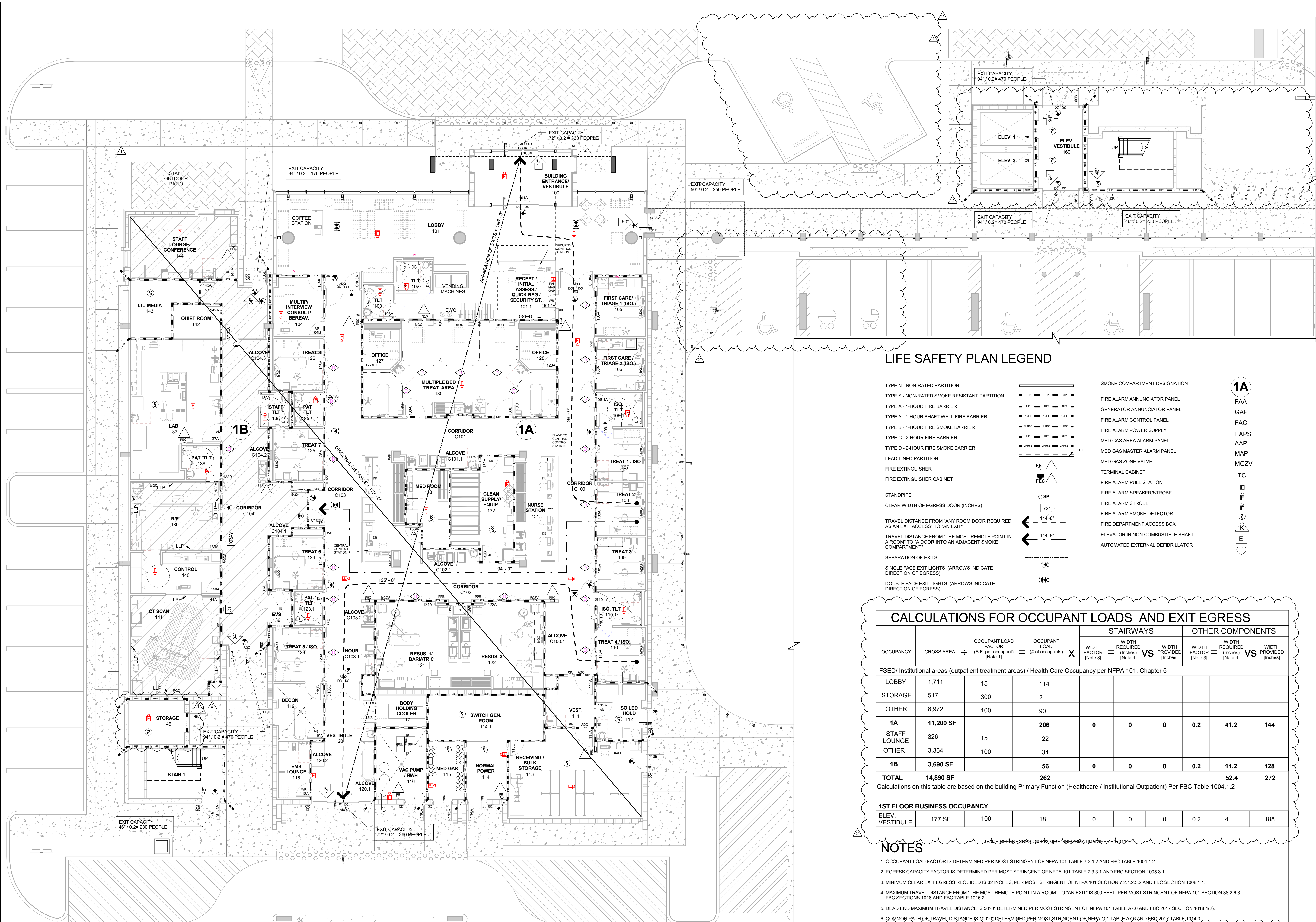
Revision

No.	Date	Description
1	3/21/2018	Site Plan Comments
2	5/03/2018	Site Plan Comments

FIRST FLOOR LIFE
SAFETY PLAN

AL201

PROJECT: 42594.00
DATE: May 03, 2018



LIFE SAFETY PLAN LEGEND

- TYPE N - NON-RATED PARTITION
- TYPE S - NON-RATED SMOKE RESISTANT PARTITION
- TYPE A - 1-HOUR FIRE BARRIER
- TYPE A - 1-HOUR SHAFT WALL FIRE BARRIER
- TYPE B - 1-HOUR FIRE SMOKE BARRIER
- TYPE C - 2-HOUR FIRE BARRIER
- TYPE D - 2-HOUR FIRE SMOKE BARRIER
- LEAD-LINED PARTITION
- FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET
- STANDPIPE
- CLEAR WIDTH OF EGRESS DOOR (INCHES)
- TRAVEL DISTANCE FROM "ANY ROOM DOOR REQUIRED AS AN EXIT ACCESS" TO "AN EXIT"
- TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A ROOM" TO "A DOOR INTO AN ADJACENT SMOKE COMPARTMENT"
- SEPARATION OF EXITS
- SINGLE FACE EXIT LIGHTS (ARROWS INDICATE DIRECTION OF EGRESS)
- DOUBLE FACE EXIT LIGHTS (ARROWS INDICATE DIRECTION OF EGRESS)
- SMOKE COMPARTMENT DESIGNATION
- FIRE ALARM ANNUCIATOR PANEL
- GENERATOR ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- FIRE ALARM POWER SUPPLY
- MED GAS AREA ALARM PANEL
- MED GAS MASTER ALARM PANEL
- MED GAS ZONE VALVE
- TERMINAL CABINET
- FIRE ALARM PULL STATION
- FIRE ALARM SPEAKER/STROBE
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR
- FIRE DEPARTMENT ACCESS BOX
- ELEVATOR IN NON COMBUSTIBLE SHAFT
- AUTOMATED EXTERNAL DEFIBRILLATOR

CALCULATIONS FOR OCCUPANT LOADS AND EXIT EGRESS

OCCUPANCY	GROSS AREA	+	OCCUPANT LOAD FACTOR (S.F. per occupant) [Note 1]	=	OCCUPANT LOAD (# of occupants)	STAIRWAYS			OTHER COMPONENTS		
						WIDTH FACTOR [Note 3]	WIDTH REQUIRED (Inches) [Note 4]	VS	WIDTH PROVIDED (Inches)	WIDTH FACTOR [Note 3]	WIDTH REQUIRED (Inches) [Note 4]
FSEd / Institutional areas (outpatient treatment areas) / Health Care Occupancy per NFPA 101, Chapter 6											
LOBBY	1,711		15		114						
STORAGE	517		300		2						
OTHER	8,972		100		90						
1A	11,200 SF				206	0	0	0	0.2	41.2	144
STAFF LOUNGE	326		15		22						
OTHER	3,364		100		34						
1B	3,690 SF				56	0	0	0	0.2	11.2	128
TOTAL	14,890 SF				262				52.4	272	
Calculations on this table are based on the building Primary Function (Healthcare / Institutional Outpatient) Per FBC Table 1004.1.2											
1ST FLOOR BUSINESS OCCUPANCY											
ELEV. VESTIBULE	177 SF		100		18	0	0	0	0.2	4	188

NOTES

- OCCUPANT LOAD FACTOR IS DETERMINED PER MOST STRINGENT OF NFPA 101 TABLE 7.3.1.2 AND FBC TABLE 1004.1.2.
- EGRESS CAPACITY FACTOR IS DETERMINED PER MOST STRINGENT OF NFPA 101 TABLE 7.3.3.1 AND FBC SECTION 1005.3.1.
- MINIMUM CLEAR EXIT EGRESS REQUIRED IS 32 INCHES, PER MOST STRINGENT OF NFPA 101 SECTION 7.2.1.2.3.2 AND FBC SECTION 1008.1.1.
- MAXIMUM TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A ROOM" TO "AN EXIT" IS 300 FEET, PER MOST STRINGENT OF NFPA 101 SECTION 38.2.6.3, FBC SECTIONS 1016 AND FBC TABLE 1016.2.
- DEAD END MAXIMUM TRAVEL DISTANCE IS 50'-0" DETERMINED PER MOST STRINGENT OF NFPA 101 TABLE A7.6 AND FBC 2017 SECTION 1018.4(2).
- COMMONPATH OF TRAVEL DISTANCE IS 100'-0" DETERMINED PER MOST STRINGENT OF NFPA 101 TABLE A7.6 AND FBC 2017 TABLE 1014.3.
- WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
 - A. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
 - B. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS"

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

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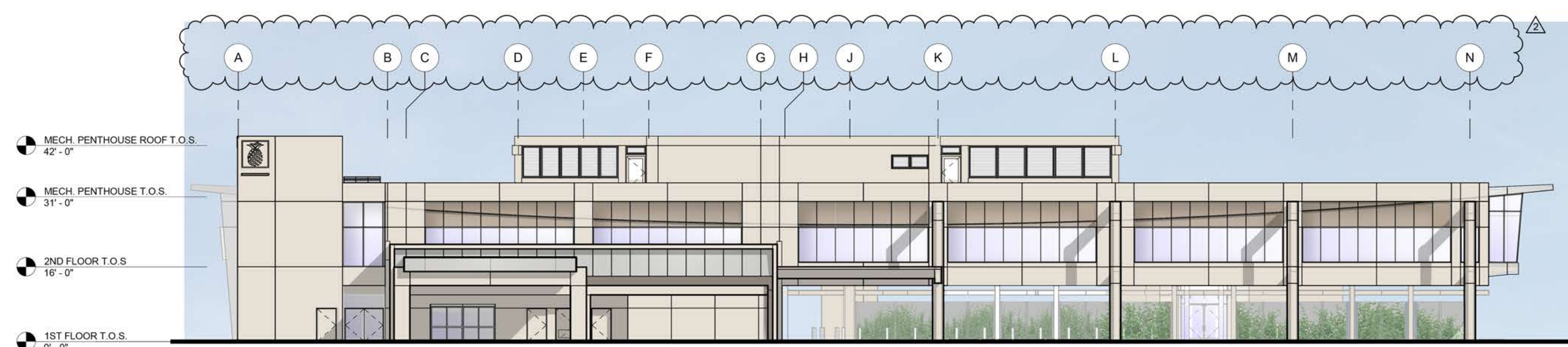
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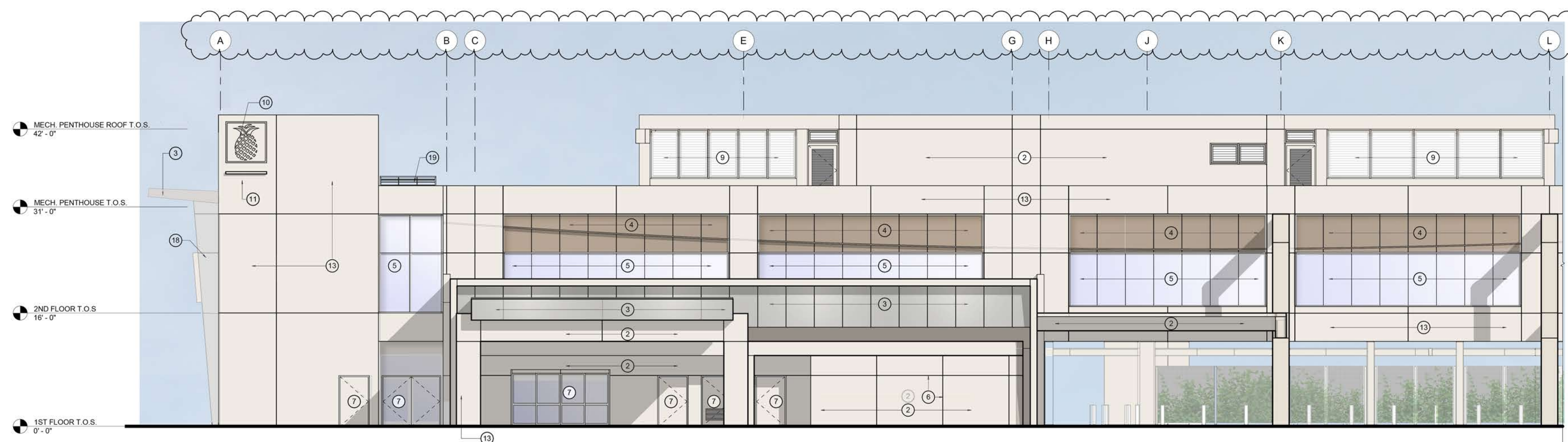
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EXTERIOR ELEVATION LEGEND

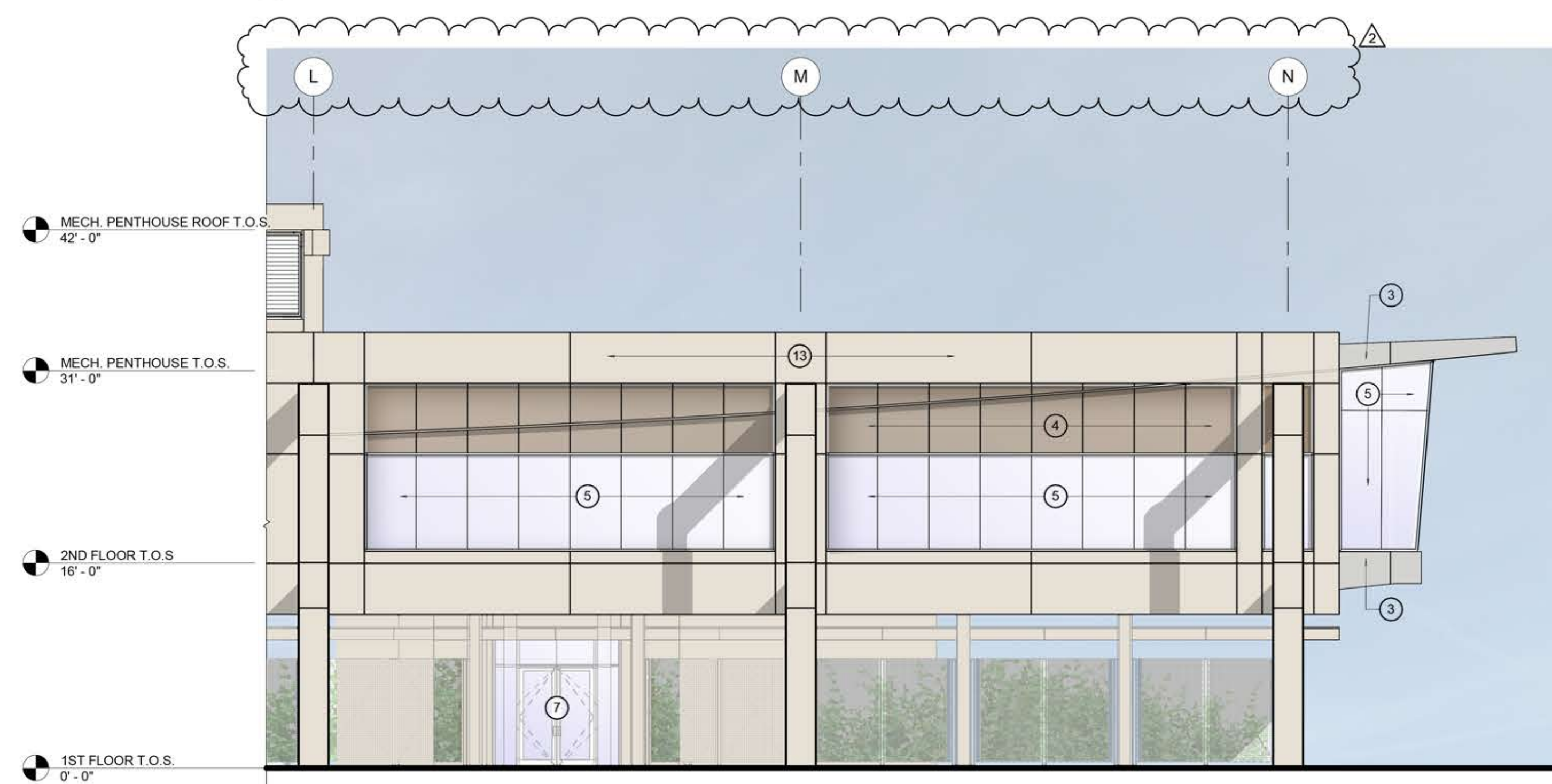
- ① 2 1/4" THICK PRE FINISHED ALUMINUM COMPOSITE WALL PANEL SYSTEM INSTALLED OVER CONCRETE WALLS. SEE SPECIFICATIONS FOR BASIS OF DESIGN. COLOR - ALUCOBOND - WEST PEWTER MICA - NOA NO. 15-1019.02
- ② STUCCO FINISH PAINT COLOR - KESTREL WHITE (SW 7516)
- ③ 2 1/4" THICK PRE FINISHED ALUMINUM COMPOSITE WALL PANEL SYSTEM INSTALLED OVER CONCRETE WALLS. SEE SPECIFICATIONS FOR BASIS OF DESIGN. COLOR - ALUCOBOND - SILVER METALLIC - NOA NO. 15-1019.02
- ④ 2 1/4" THICK PRE FINISHED ALUMINUM COMPOSITE WALL PANEL SYSTEM INSTALLED OVER CONCRETE MASONRY WALLS. SEE SPECIFICATIONS FOR BASIS OF DESIGN. COLOR - ALUCOBOND - DRIFTWOOD MICA COOL - NOA NO. 15-1019.02
- ⑤ LARGE MISSILE IMPACT RESISTANT CLEAR ANODIZED ALUMINUM STRUCTURALLY GLAZED WINDOW WALL SYSTEM W/ LIGHT GRAY TINT. (SEE SPECIFICATION FOR BASIS OF DESIGN)
- ⑥ HAND TOOLED STUCCO CONTROL JOINT - 1/2" WIDE, 1/2" DEEP
- ⑦ SCHEDULED DOOR - SEE DOOR AND FRAME SCHEDULE FOR ADDITIONAL INFORMATION
- ⑧ STUCCO FINISH PAINT COLOR - BACKDROP (SW 7025) (ACCENT COLOR)
- ⑨ PREFINISHED METAL LOUVER
- ⑩ DEBOSSED PINEAPPLE ARCHITECTURAL FEATURE IN CONCRETE WALL WITH SKIM COAT AND PAINT COLOR KESTREL WHITE (SW 7516)
- ⑪ EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- ⑫ SIGNAGE, STRUCTURAL ASSEMBLY & CALCULATIONS BY OTHERS (TYP.) UNDER SEPARATE PERMIT
- ⑬ PRECAST CONCRETE WALL WITH INTEGRAL COLOR - KESTREL WHITE (SW 7516)
- ⑭ SKIM COAT, PAINT COLOR - KESTREL WHITE (SW 7516)
- ⑮ PRECAST CONCRETE WALL W/ INTEGRAL COLOR - BACKDROP (SW 7025) (ACCENT COLOR)
- ⑯ GREENSCREEN WALL REFER TO SHEET A461 FOR DETAIL INFORMATION
- ⑰ DEBOSSED PINEAPPLE ARCHITECTURAL FEATURE IN CONCRETE WALL W/ SKIM COAT AND PAINT COLOR TIN LIZZIE (SW 9163)
- ⑱ STUCCO FINISH PAINT COLOR - TIN LIZZIE (SW 9163)
- ⑲ RAILING - REFER TO MISCELLANEOUS SITE DETAILS SHEET A461. FINISH COLOR TO MATCH SILVER METALLIC COLOR
- ⑳ 6" SECURITY BOLLARDS



1 OVERALL SOUTH ELEVATION
 1/16" = 1'-0"
 0' 5' 10' 15' 20' 25' 30' 35' 40' 45'



2 PARTIAL SOUTH ELEVATION
 1/8" = 1'-0"
 0' 5' 10' 15' 20' 25'



3 PARTIAL SOUTH ELEVATION
 1/8" = 1'-0"
 0' 5' 10' 15' 20' 25'

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**Baptist Health
South Florida**

**Baptist Health
Emergency
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9500 NW 58TH Street · Doral, FL
 33178

GUSTAVO ALFONSO
 AR 0017009

Revision		
No.	Date	Description
1	3/21/2018	Site Plan Comments
2	5/03/2018	Site Plan Comments

EXTERIOR ELEVATIONS

A302

PROJECT: 42594.00
 DATE: May 03, 2018



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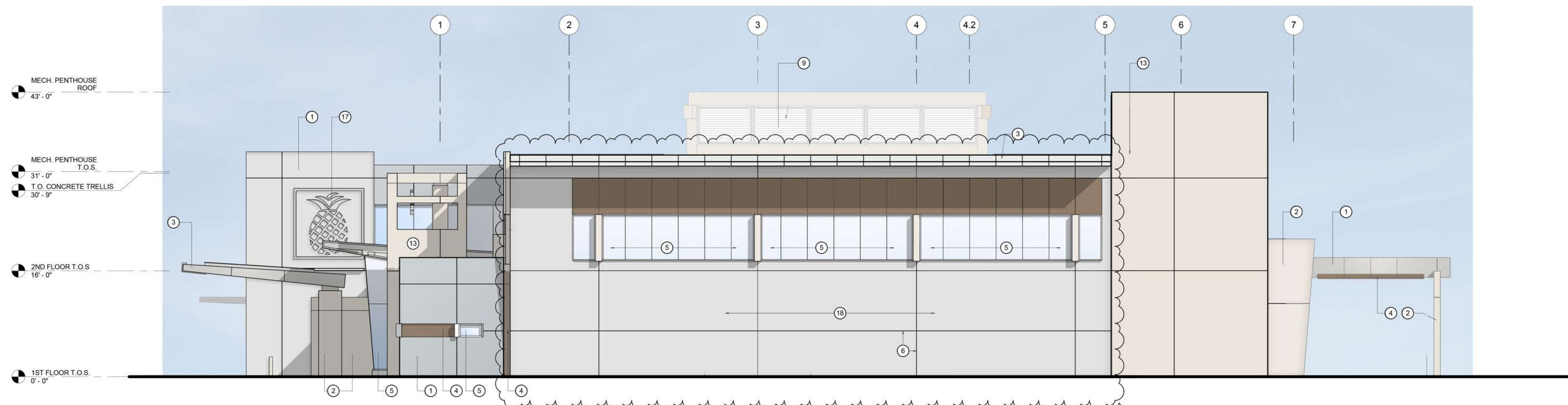
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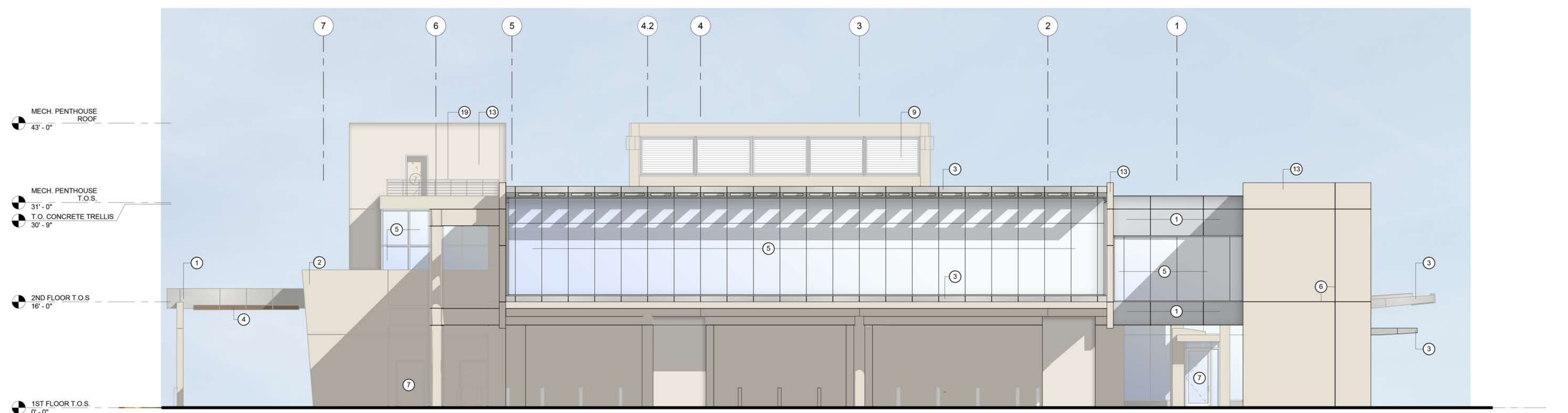
FIRM'S FLORIDA CERT. NO.
 AAP000034/CA3806
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EXTERIOR ELEVATION LEGEND

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- 20 6" SECURITY BOLLARDS



1 WEST ELEVATION
 1/8" = 1'-0"
 0' 4' 8' 16' 24'



2 EAST ELEVATION
 1/8" = 1'-0"
 0' 4' 8' 16' 24'



Baptist Health
Emergency
Center Doral

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GUSTAVO ALFONSO
 AR 0017009

Revision		
No.	Date	Description
1	3/21/2018	Site Plan Comments
2	5/03/2018	Site Plan Comments

EXTERIOR
ELEVATIONS

A303

PROJECT: 42594.00
 DATE: March 21, 2018

Drawn By: Author
 Checked By: Checker
 Approved By: Approver



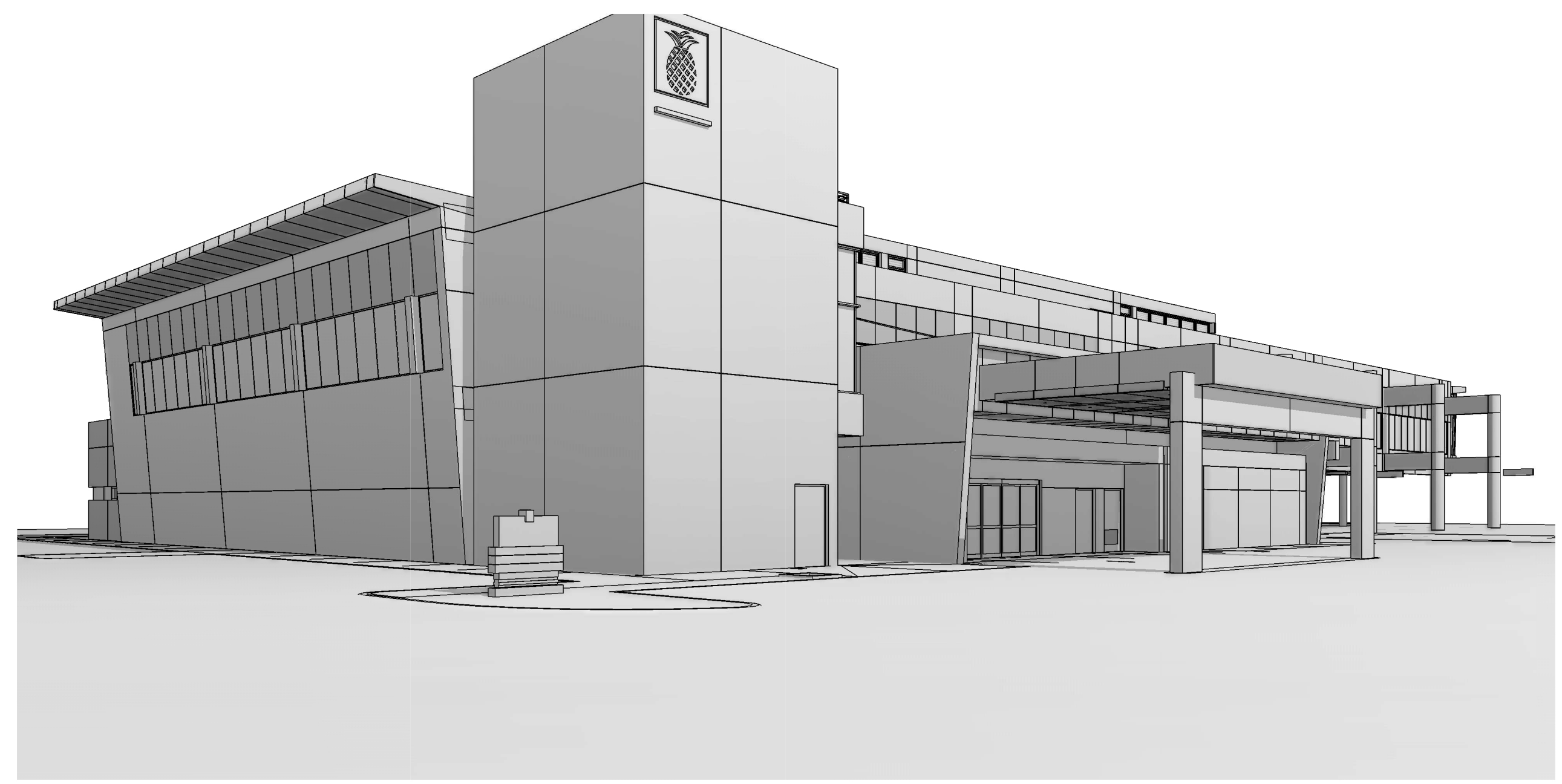
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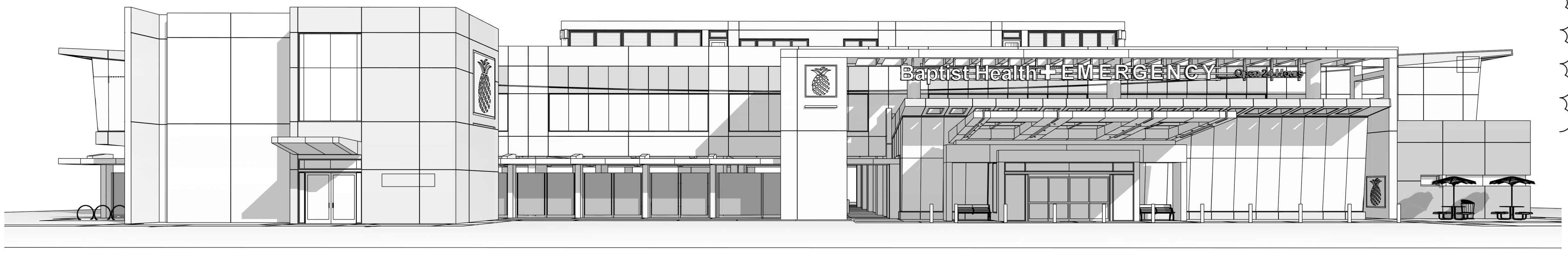
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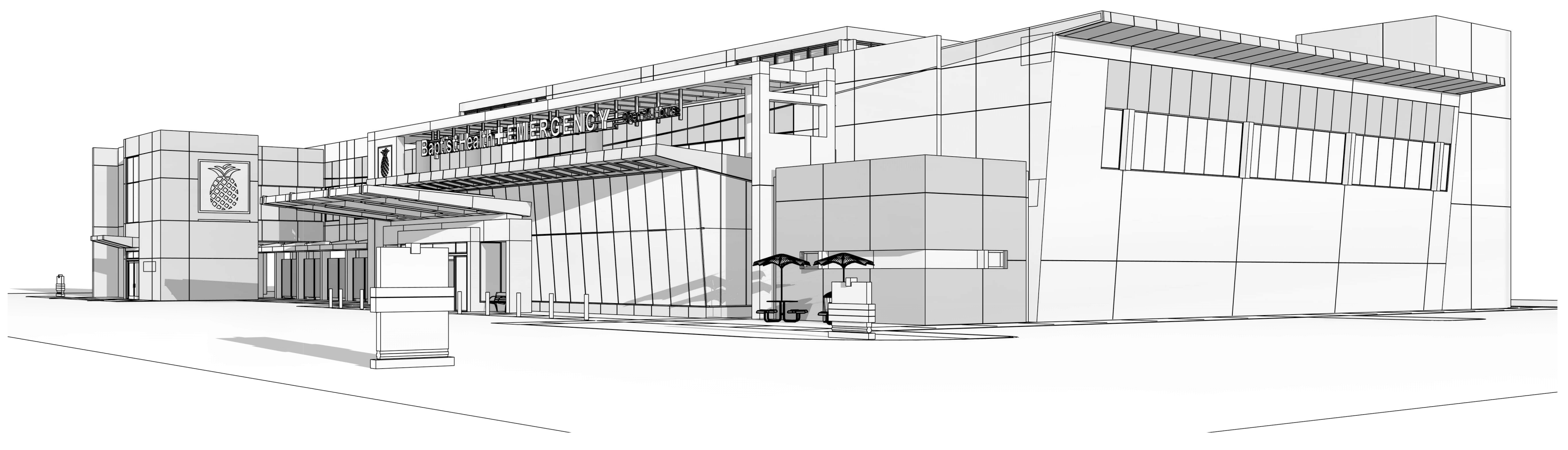
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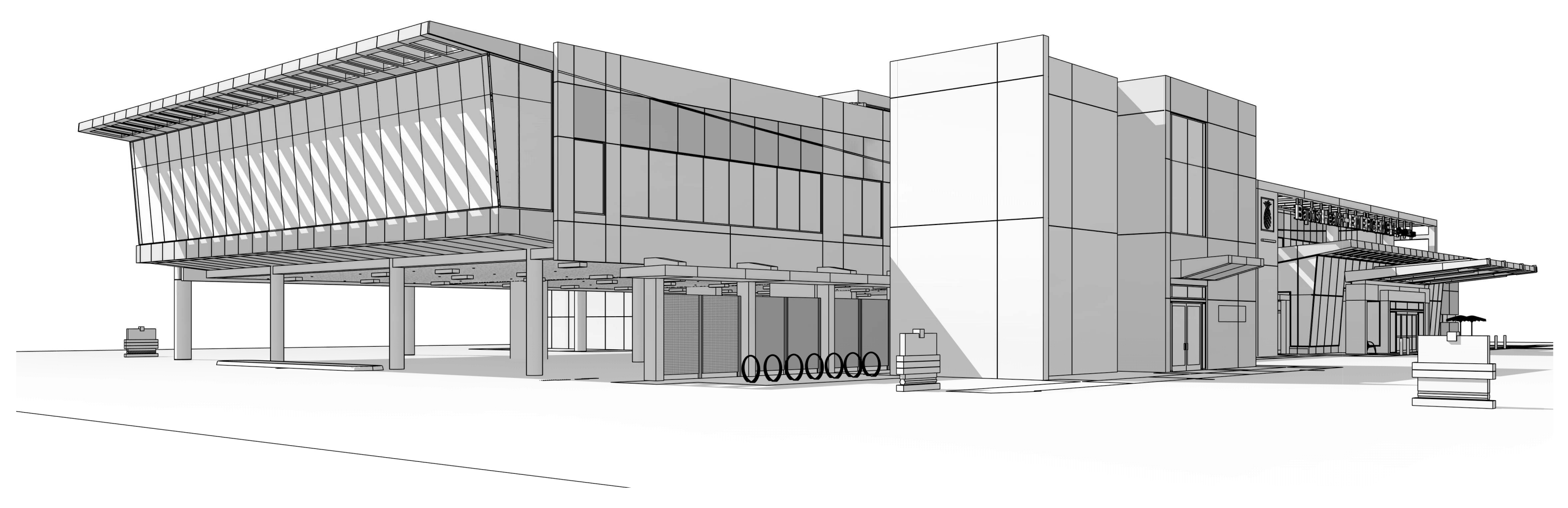
1 SOUTH WEST CORNER



2 NORTH



3 NORTH WEST CORNER



4 NORTH EAST CORNER



**Baptist Health
 Emergency
 Center Doral**

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GUSTAVO ALFONSO
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3D VIEWS

A310

PROJECT: 42594.00
 DATE: May 03, 2018

Drawn By: Author
 Checked By: Checker
 Approved By: Approver



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GUSTAVO ALFONSO
 AR 0017009

Revision		
No.	Date	Description
1	3/21/2018	Site Plan Comments

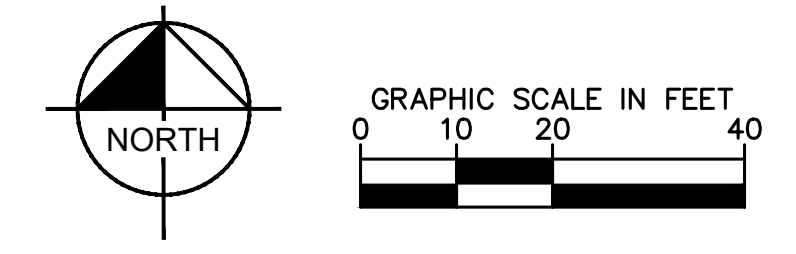
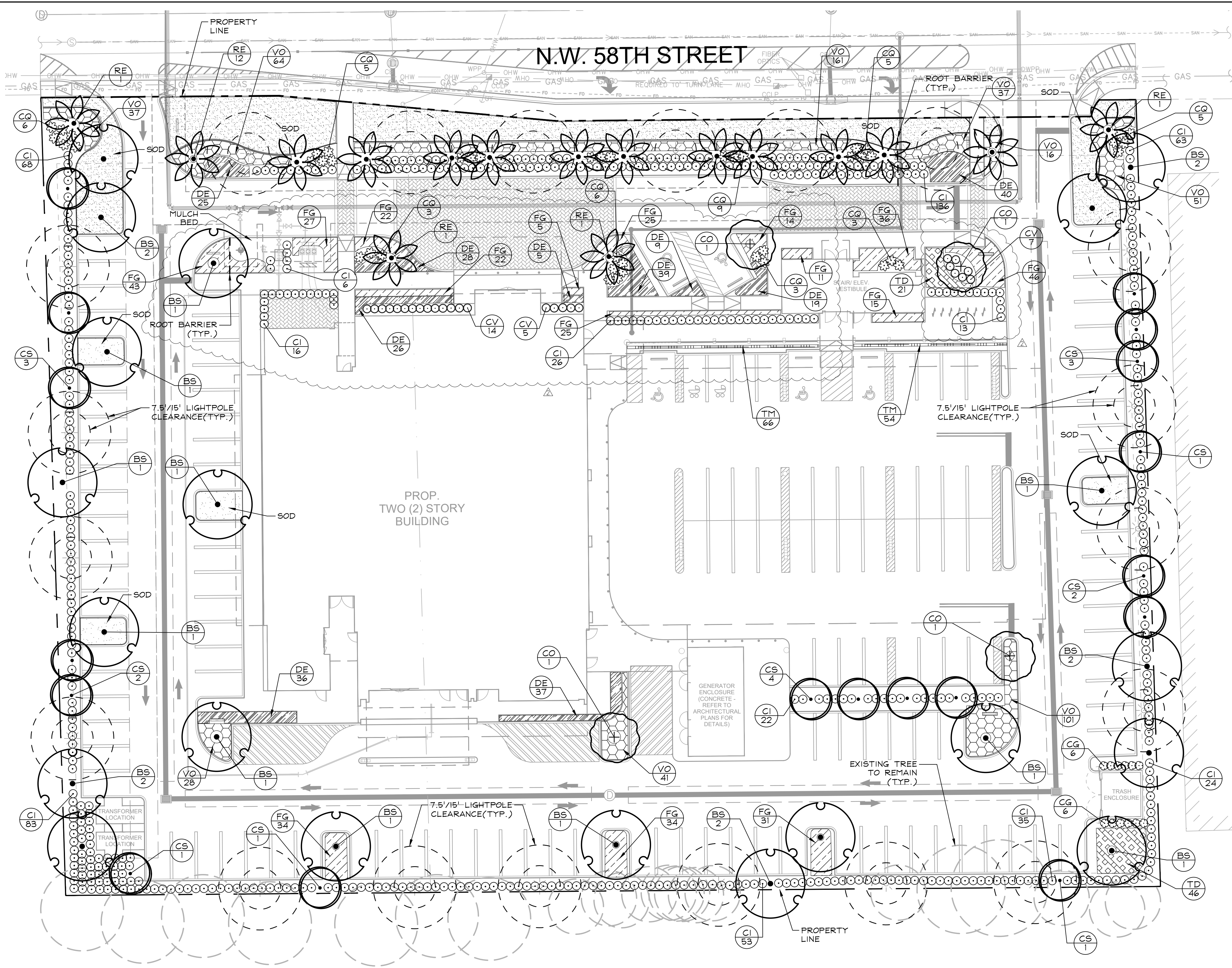
RENDERING

A312

PROJECT: 42594.00
 DATE: May 03, 2018

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Drawn By: MM
 Checked By: CF
 Approved By: SV



PLANT SCHEDULE

TREES	COMMON NAME
BS	Gumbo Limbo
CO	Satinleaf
CS	Silver Buttonwood
PALM TREES	
RE	Royal Palm
SHRUBS	
CG	Small-Leaf Clusia
CI	Red Tip Coco Plum
CQ	'Queen Emma' Crinum
CV	Petra Croton
SHRUB AREAS	
DE	Gold Mound Duranta
FG	Green Island Ficus
TD	Florida Gamagrass
TM	Minima Jasmine
VO	'Miss Shillers Delight' Viburnum
GROUND COVERS	
SOD	Floratam St. Augustine Sod

SEE FULL LANDSCAPE SCHEDULE ON SHEET L100.2



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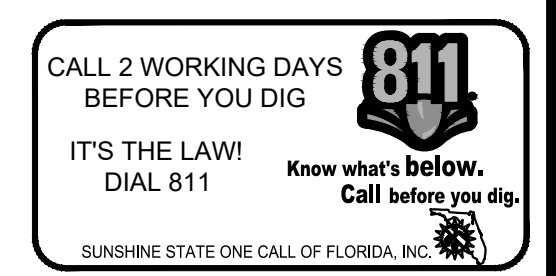
9500 - 9540 NW 58th Street
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LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA
 FLORIDA LICENSE NUMBER
 LA#6667244
 5/7/2018

LANDSCAPE PLAN

Revision		
No.	Date	Description
△	03.21.2018	SITE PLAN COMMENTS
△	05.03.2018	SITE PLAN COMMENTS



L100.1
 PROJECT: 144429018
 DATE: 05/03/2018

Drawn By: MM
Checked By: CF
Approved By: SY

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT.	CAL.	SIZE	QTY	NATIVE	DROUGHT TOL.
BS	Bursera simaruba	Gumbo Limbo	Cont.	4" Cal.	14'HT X 5'SPR	21	X	X
CO	Chrysophyllum oliviforme	Satinleaf	Cont.	3" Cal.	14'HT X 5'SPR	4	X	X
CS	Conocarpus erectus 'Sericeus' Standard	Silver Buttonwood	Cont.	2.5" Cal.	14'HT X 5'SPR	18	X	X
PALM TREES	BOTANICAL NAME	COMMON NAME	CONT.	CAL.	SIZE	QTY	NATIVE	DROUGHT TOL.
RE	Roystonea elata	Royal Palm	F.G.		15' GW	16	X	X
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT.	O.C.	SIZE	QTY	NATIVE	DROUGHT TOL.
CG	Clusia guttifera	Small-Leaf Clusia	Cont.	36" O.C.	5' HT Min.	12		X
CI	Chrysobalanus icaco 'Red Tip'	Red Tip Coco Plum	Cont.	36" O.C.	24"x24"	545	X	X
CQ	Crinum augustum 'Queen Emma'	'Queen Emma' Crinum	Cont.	As Shown	36"x36"	45		X
CV	Codiaeum variegatum 'Petra'	Petra Croton	Cont.	30" O.C.	18" HT	26		X
SHRUB AREAS	BOTANICAL NAME	COMMON NAME	CONT.	O.C.	SIZE	QTY	NATIVE	DROUGHT TOL.
DE	Duranta erecta 'Gold Mound'	Gold Mound Duranta	Cont.	24" O.C.	18" x 18"	264		X
FG	Ficus microcarpa 'Green Island'	Green Island Ficus	Cont.	24" O.C.	18" x 18"	390		X
TD	Tripsacum floridanum	Florida Gamagrass	Cont.	30" O.C.	18"x18"	67	X	X
TM	Trachelospermum asiaticum 'Minima' Affix runners to Green Screen	Minima Jasmine	Cont.	12" O.C.	12" SPR	120		X
VO	Viburnum obovatum 'Miss Shillers Delight'	'Miss Shillers Delight' Viburnum	Cont.	24" O.C.	18" x 18"	536	X	X
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT.	O.C.	SIZE	QTY	NATIVE	DROUGHT TOL.
SOD	Stenotaphrum secundatum 'Floratom'	Floratom St. Augustine Sod	sod			± 4,840 sf		X

PLANTING NOTES:

- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
- PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
- ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
- ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

CITY OF DORAL LANDSCAPE LEGEND			
Zoning District:	CORRIDOR COMMERCIAL	Net Lot Area: 2.61 acres	113,764 square feet
OPEN SPACE		REQUIRED	PROVIDED
A. Square feet of open space required by zoning district as indicated on site plan:		22,752	24,560
Net lot area=113,764 square feet x 20% = 22,752 square feet			
LAWN AREA CALCULATION			
A. Total square feet of landscaped open space required by zoning district=		22,752	
B. Maximum lawn area (St. Augustine sod) permitted= 20% x 22,752 square feet=		4,551	4,437
TREES			
A. The number of trees required per net lot acre less the existing number of trees that meet minimum requirements (minus existing)		58	
= 22 trees x net lot acreage=		58	43
B. 30% palm trees allowed (three palms=one tree) Palms provided=		18	16
C. Percentage of native trees required=the number of trees providedx30%=		18	43
D. Street trees (max. average spacing of 30' o.c.): 350 linear feet along street/30=		12	12
Palms as street trees (max. average spacing 25' o.c.): 350 linear feet along street/25=		14	14
E. Street trees located directly beneath power lines (maximum average spacing of 25' o.c.):		N/A	N/A
N/A linear feet along street/25=		N/A	59
F. Total number of trees provided=			
SHRUBS			
A. The total number of trees required x 10 = the number of shrubs required		580	580
B. The number of shrubs required x 30% = the number of native shrubs required		174	174
C. The number of shrubs required x 50% = the number of drought tolerant shrubs required		290	290
IRRIGATION PLAN: Required by Section 71-4.		X	PROVIDED AT PERMITTING

CODE REQUIREMENTS

SITE AREA: 113,764 SF (2.61 ACRES)		IMPERVIOUS AREA: 89,204 SF (2.05 ACRES)	
ZONING: 6400 COMMERCIAL - CENTRAL		PERVIOUS AREA: 24,560 SF (0.56 ACRES)	
LAND USE: BUSINESS		REQUIRED	PROVIDED
SEC. 71-183			
BUFFERYARD REQUIREMENTS SHALL BE DETERMINED BY SUBTRACTING THE LAND USE INTENSITY FACTOR OF THE LESS INTENSE USE FROM THE MORE INTENSE USE. THE RESULTING DIFFERENCES CORRESPOND TO THE APPROPRIATE BUFFERYARD DESIGN TYPE FOUND IN SEC. 71-184. (ISR REFERS TO IMPERVIOUS SURFACE RATIO TO TOTAL SURFACE AREA)			
PROPOSED SITE (COMMERCIAL) - INTENSITY FACTOR #6			
EAST SITE (INDUSTRIAL) - INTENSITY FACTOR #7			
SOUTH SITE (COMMERCIAL) - INTENSITY FACTOR #5			
WEST SITE (COMMERCIAL) - INTENSITY FACTOR #7			
EAST BUFFER:			
INDUSTRIAL (7) - PROPOSED COMMERCIAL (6) = DESIGN TYPE #1			
REQUIRED: 3 SHADE TREES, 3 UNDERSTORY TREES, 30 SHRUBS			
SOUTH BUFFER:			
PROPOSED COMMERCIAL (6) - COMMERCIAL (5) = DESIGN TYPE #1			
REQUIRED: 3 SHADE TREES, 3 UNDERSTORY TREES, 30 SHRUBS			
WEST BUFFER:			
COMMERCIAL (7) - PROPOSED COMMERCIAL (6) = DESIGN TYPE #1			
REQUIRED: 3 SHADE TREES, 3 UNDERSTORY TREES, 30 SHRUBS			
SEC. 71-213			
10 SF OF LANDSCAPE AREA SHALL BE PROVIDED PER PARKING SPACE. 146 PARKING SPACE x 10 SF = 1,460 SF		1,460 SF	1,460 SF
SEC. 71-213(4)			
EACH LANDSCAPE ISLAND WITHIN THE PARKING LOT SHALL HAVE 1 TREE		20 TREES	20 TREES
SEC. 71-213(5)			
LANDSCAPING BETWEEN ROWS SHALL HAVE ONE TREE FOR EVERY 25 LF 86 LF / 25 LF x 1 TREE = 4 TREES		4 TREES	4 TREES



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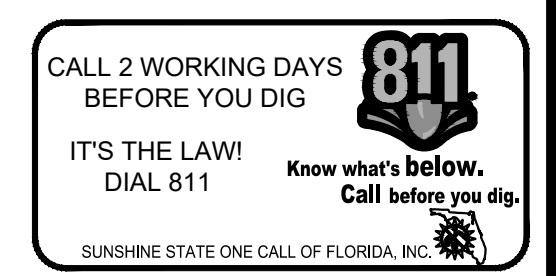
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FLORIDA LICENSE NUMBER
LA#6667244
5/7/2018

LANDSCAPE PLAN

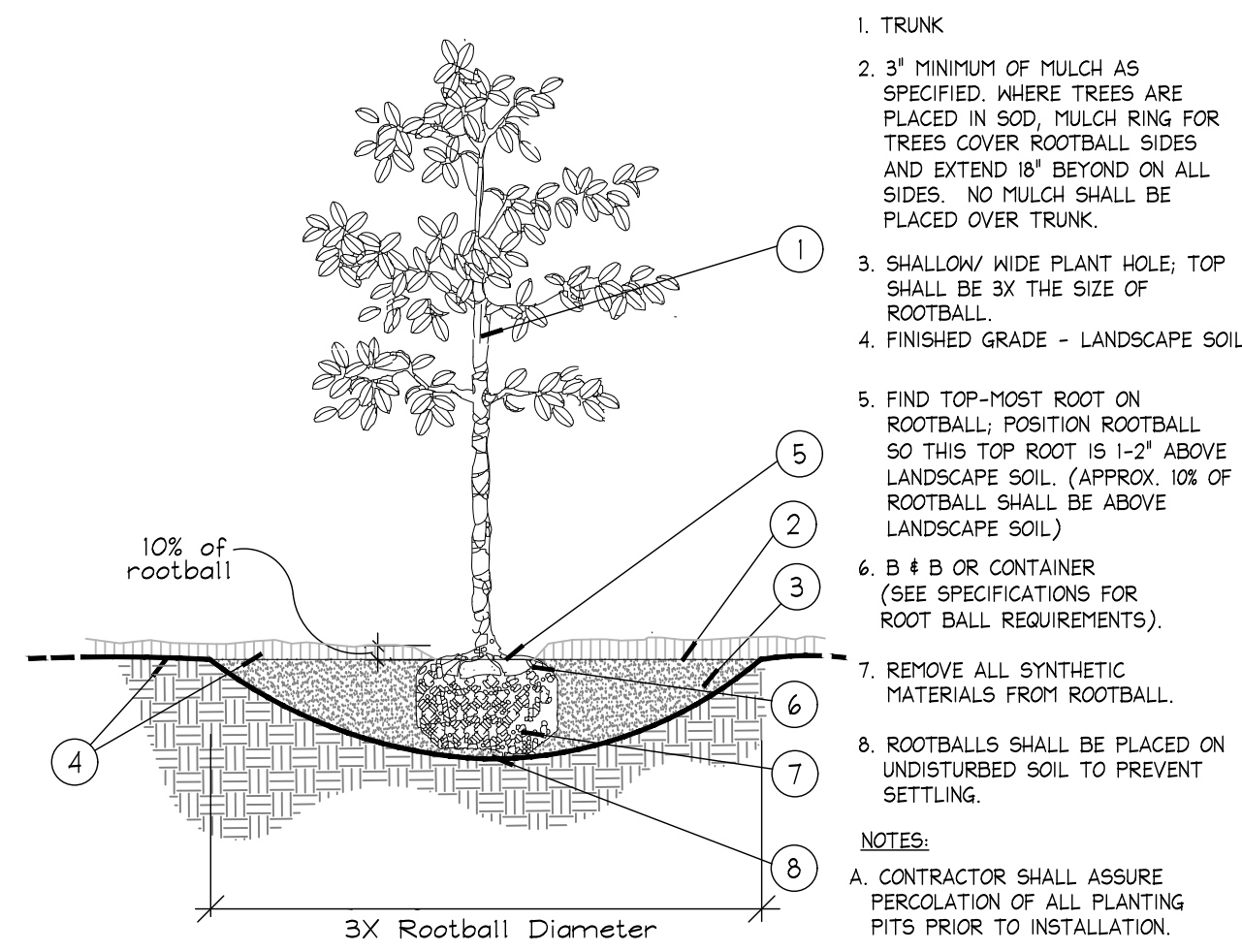
Revision		
No.	Date	Description
△	03.21.2018	SITE PLAN COMMENTS
△	05.03.2018	SITE PLAN COMMENTS

L100.2

PROJECT: 144429018
DATE: 05/03/2018

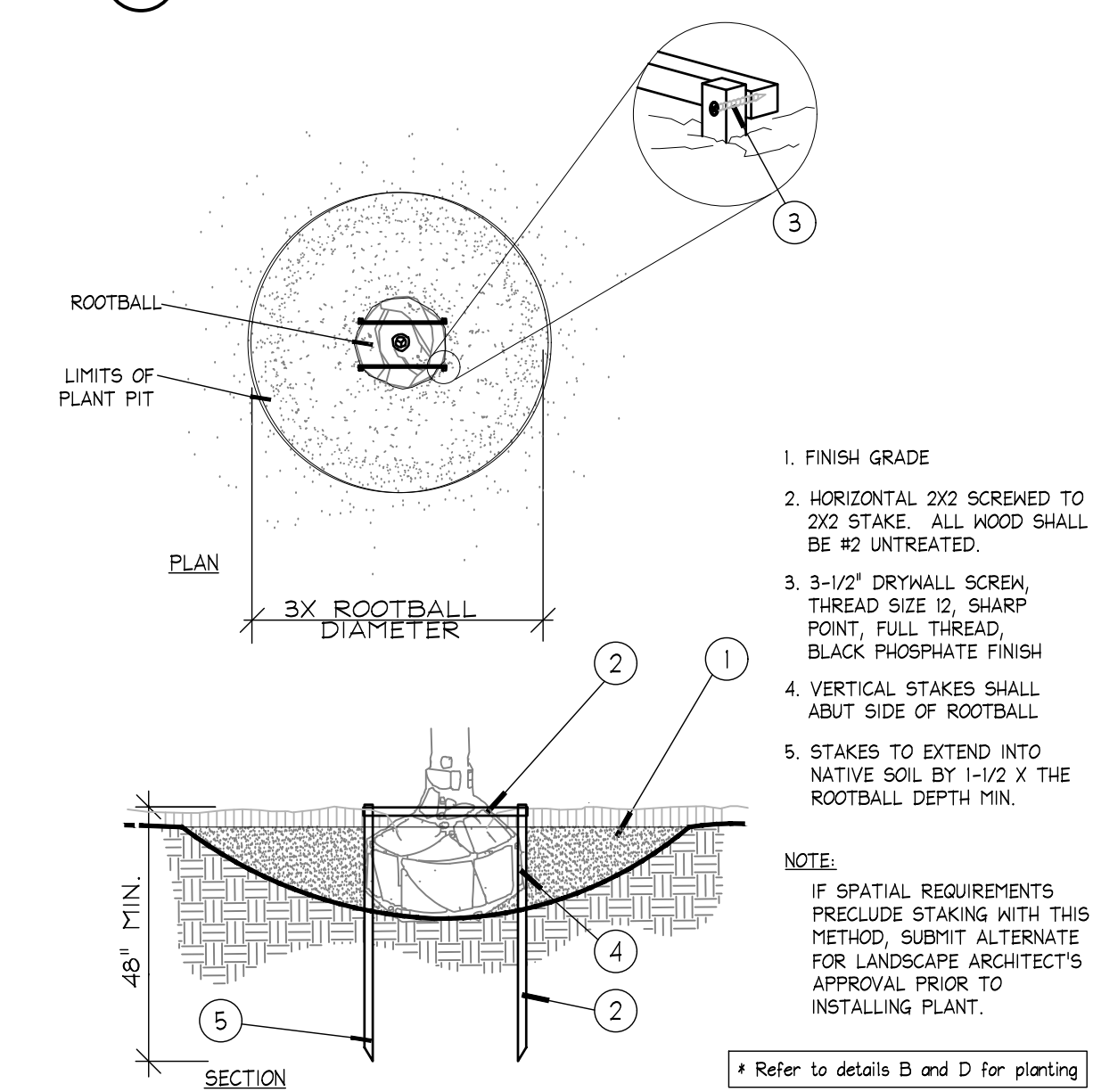


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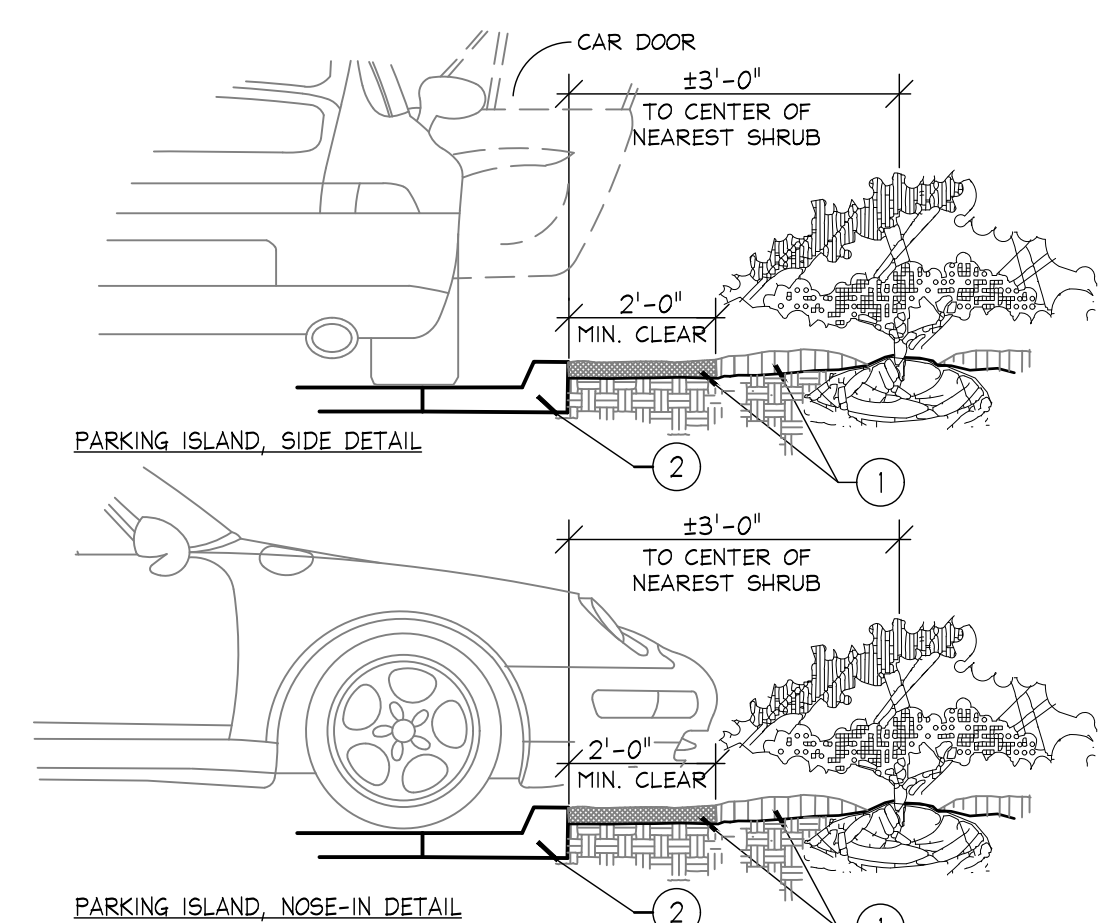
* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

A Tree Planting NTS



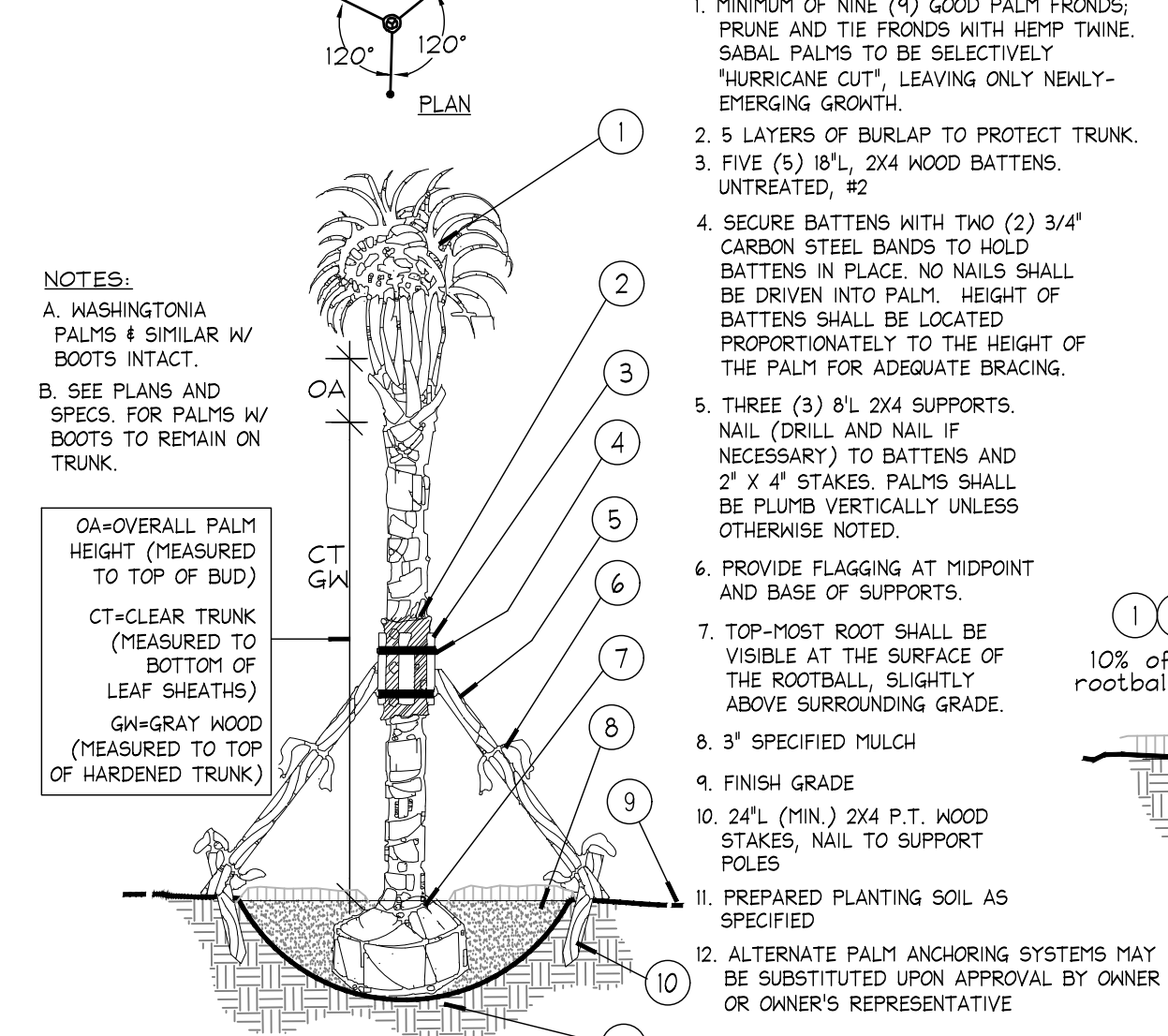
* Refer to details B and D for planting

E Staking - up to 65 gal. or B#B to 3-1/2" Cal. NTS

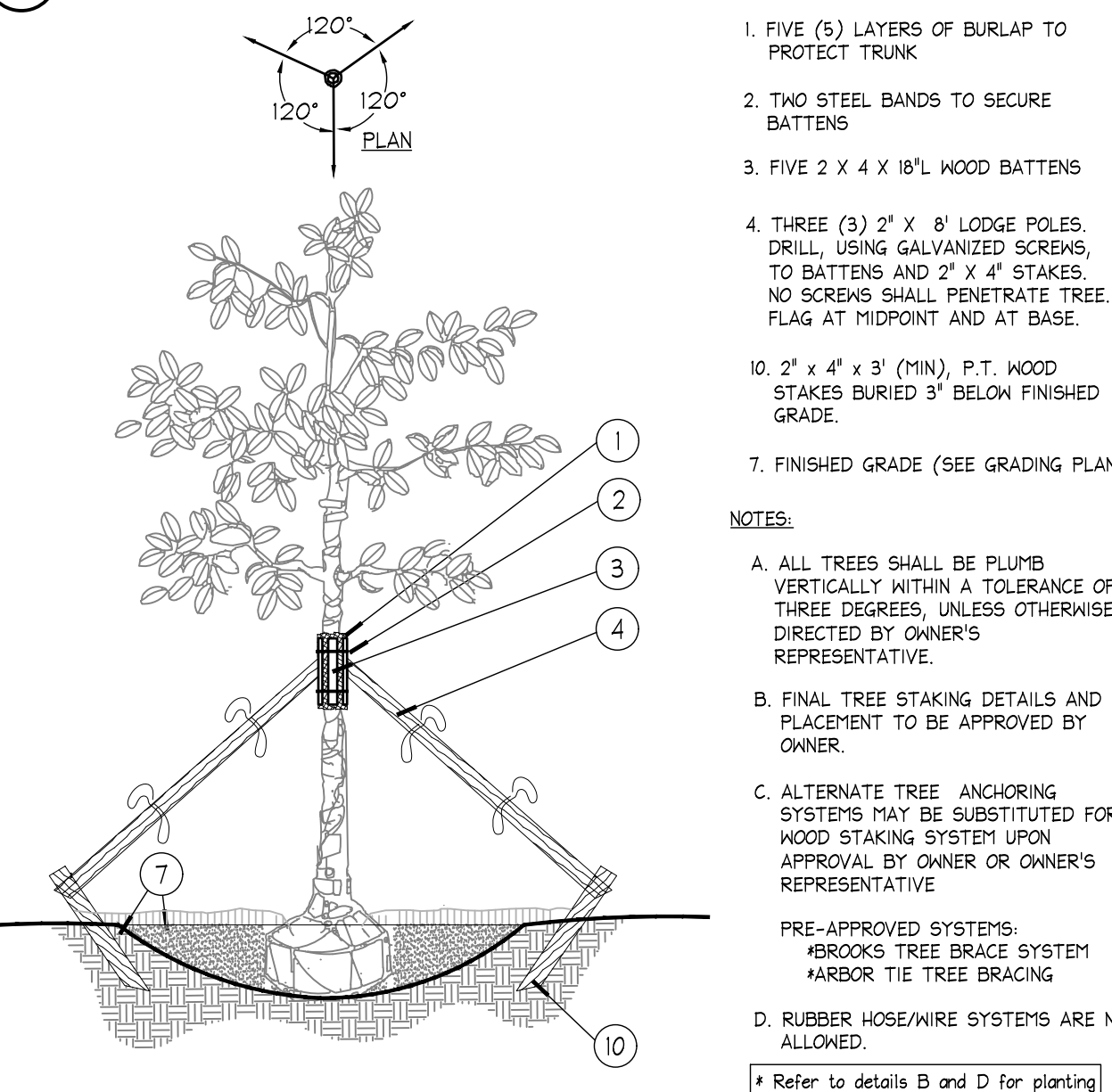


1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP.
NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

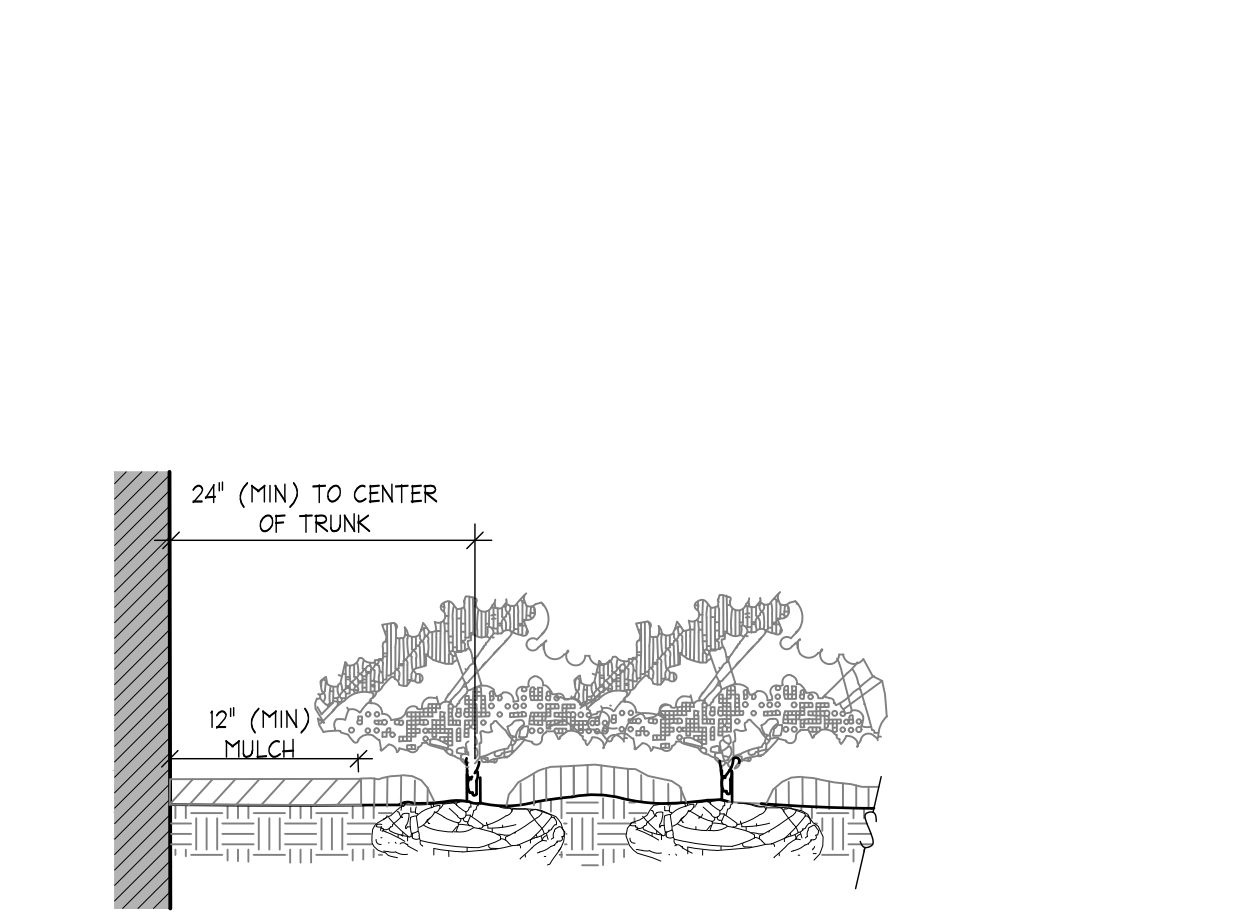
I Parking Space/Curb Planting NTS



B Palm Planting and Staking NTS

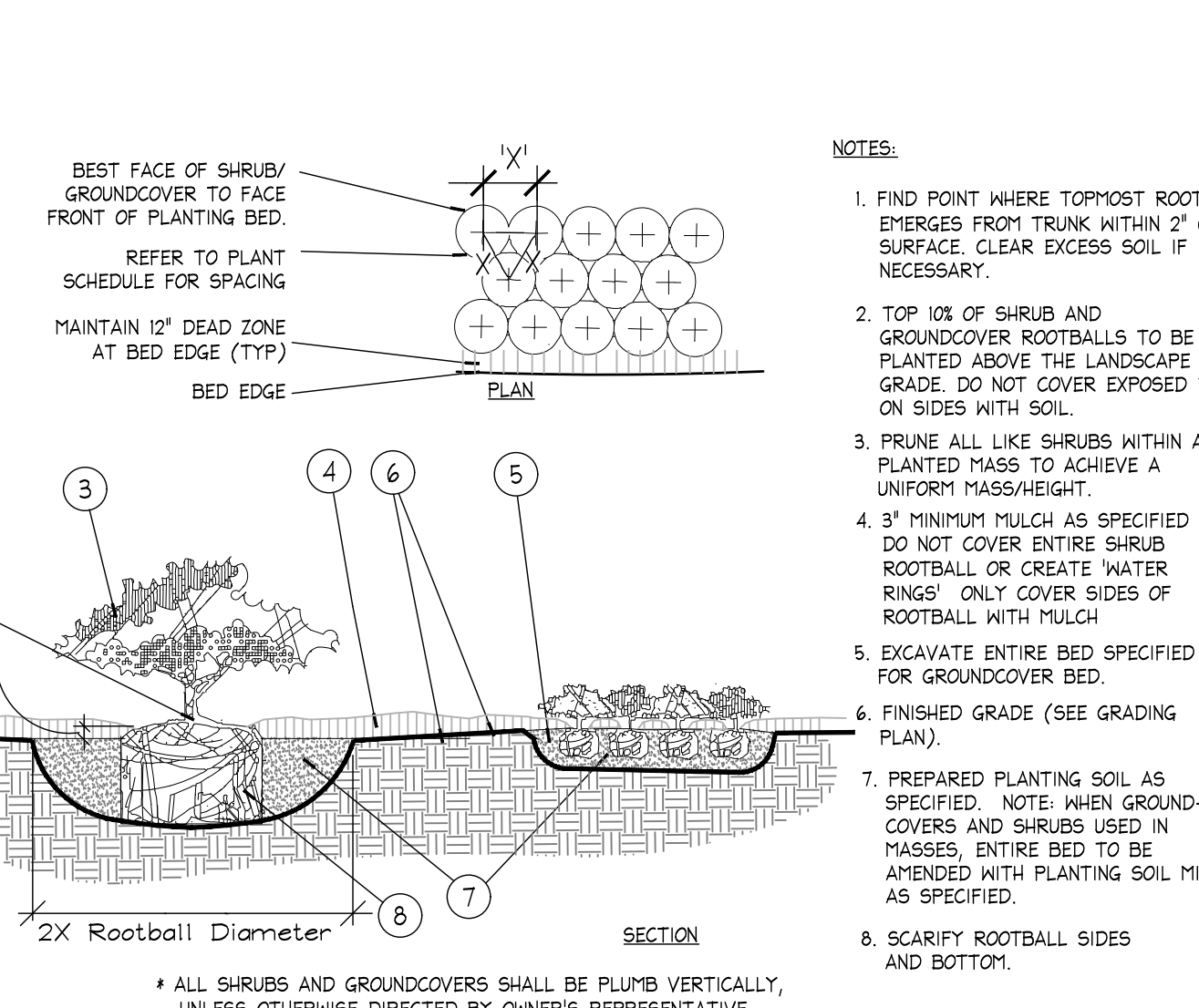


F Large Tree Staking - 100 Gal + or B#B 4" + NTS

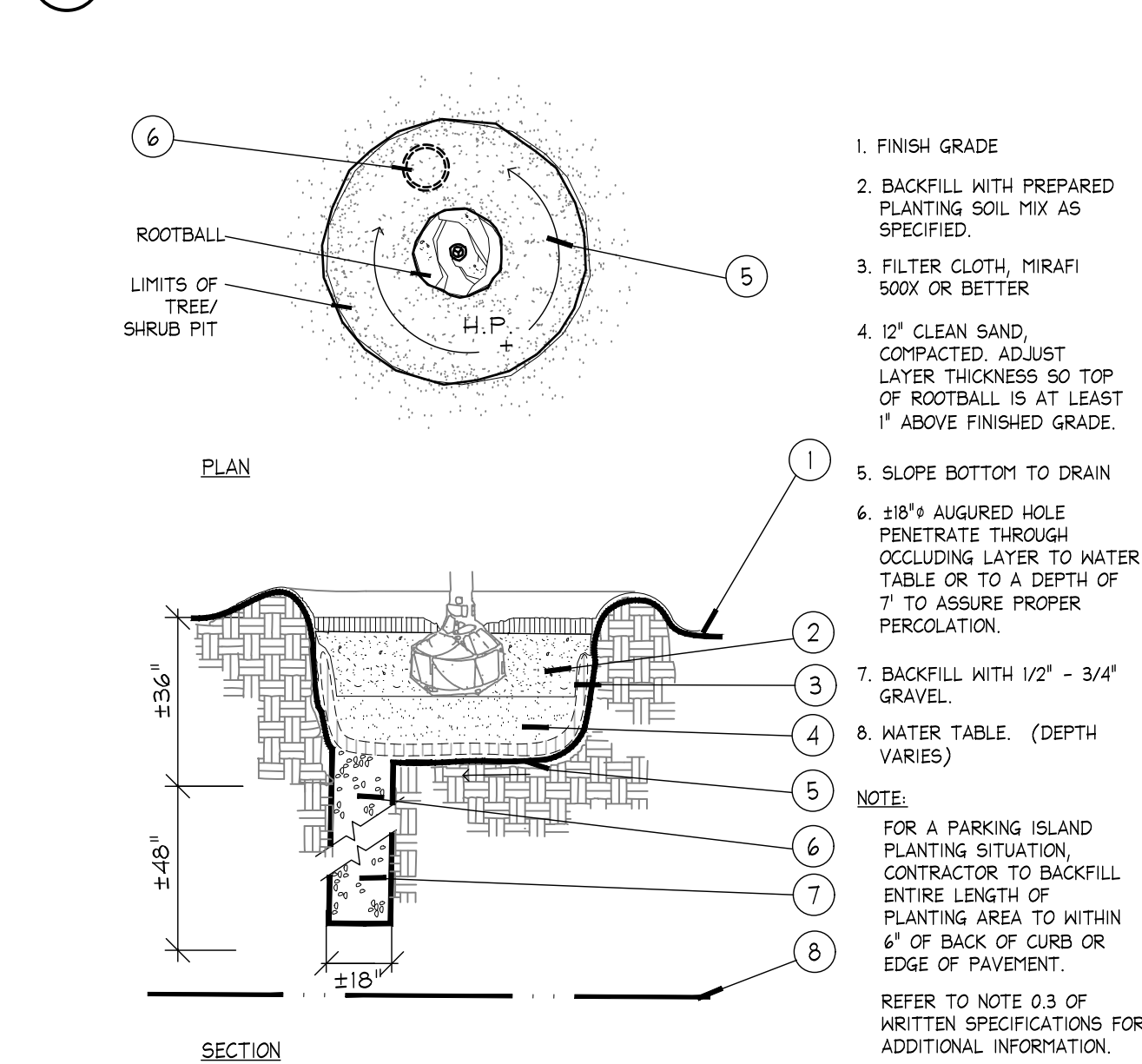


NOTES:
* CLEAR ZONE: 24' MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.

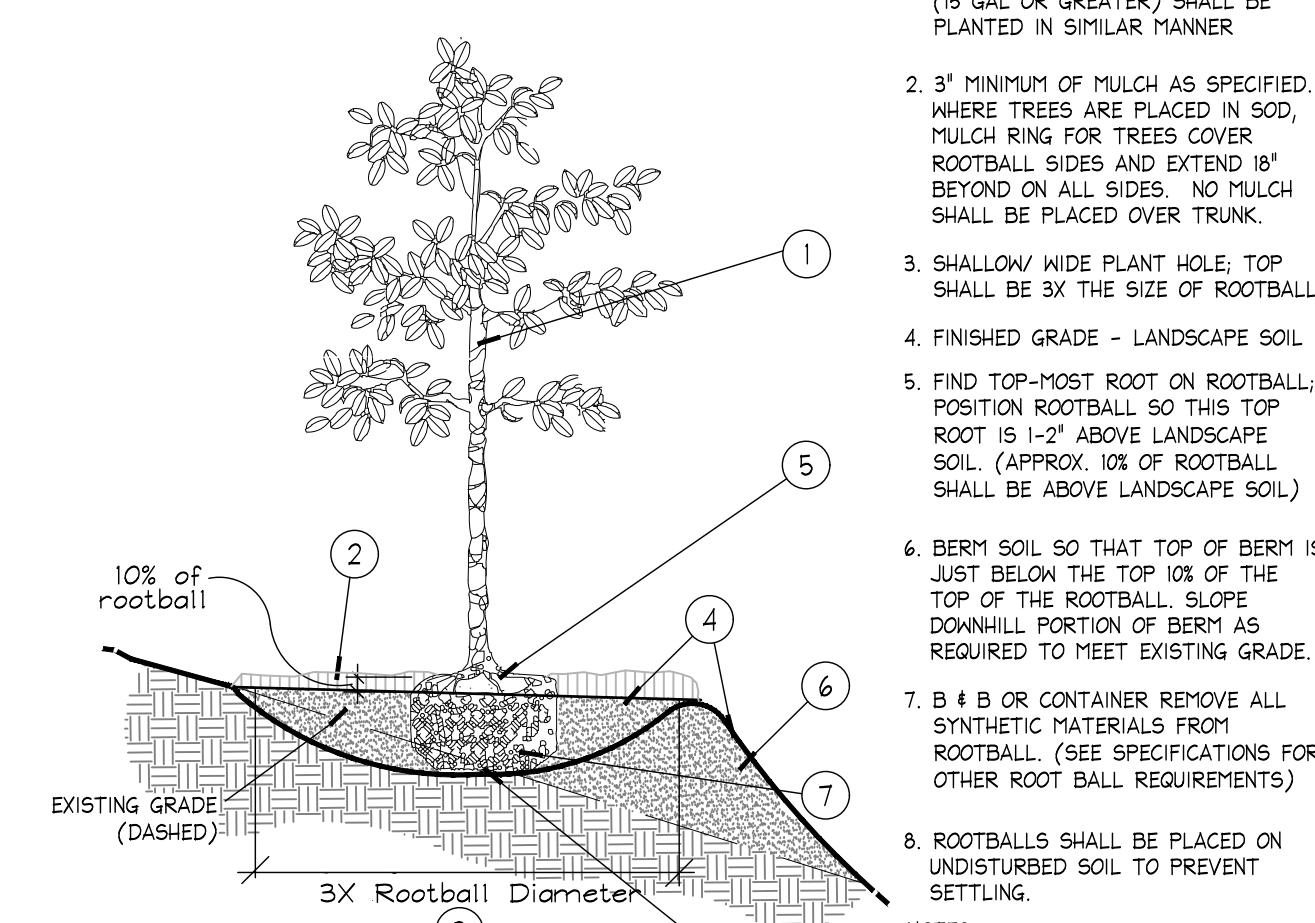
J Plantings Adjacent to Buildings NTS



C Shrub / Groundcover Planting NTS

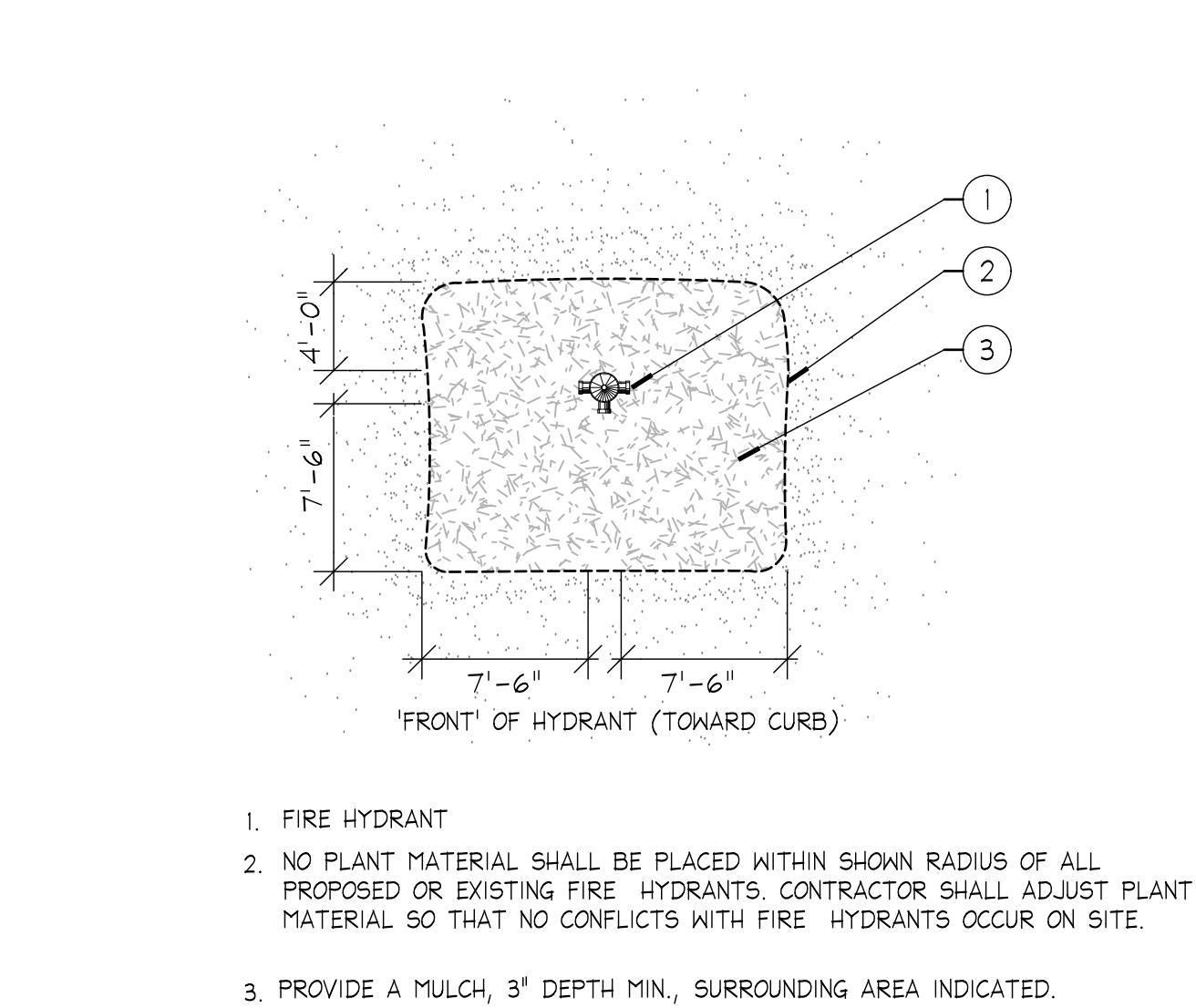


G Poor Drainage Condition NTS

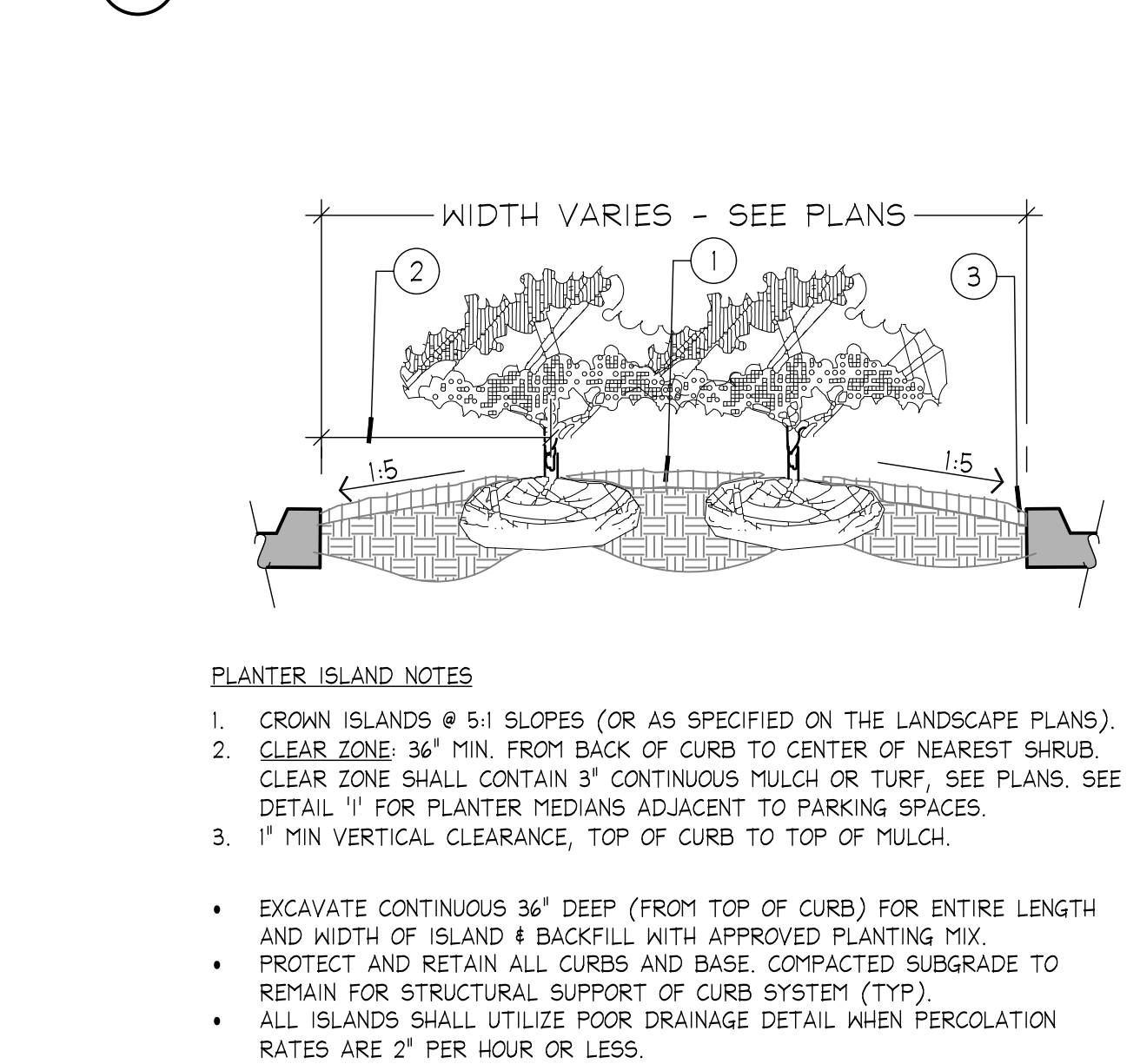


* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

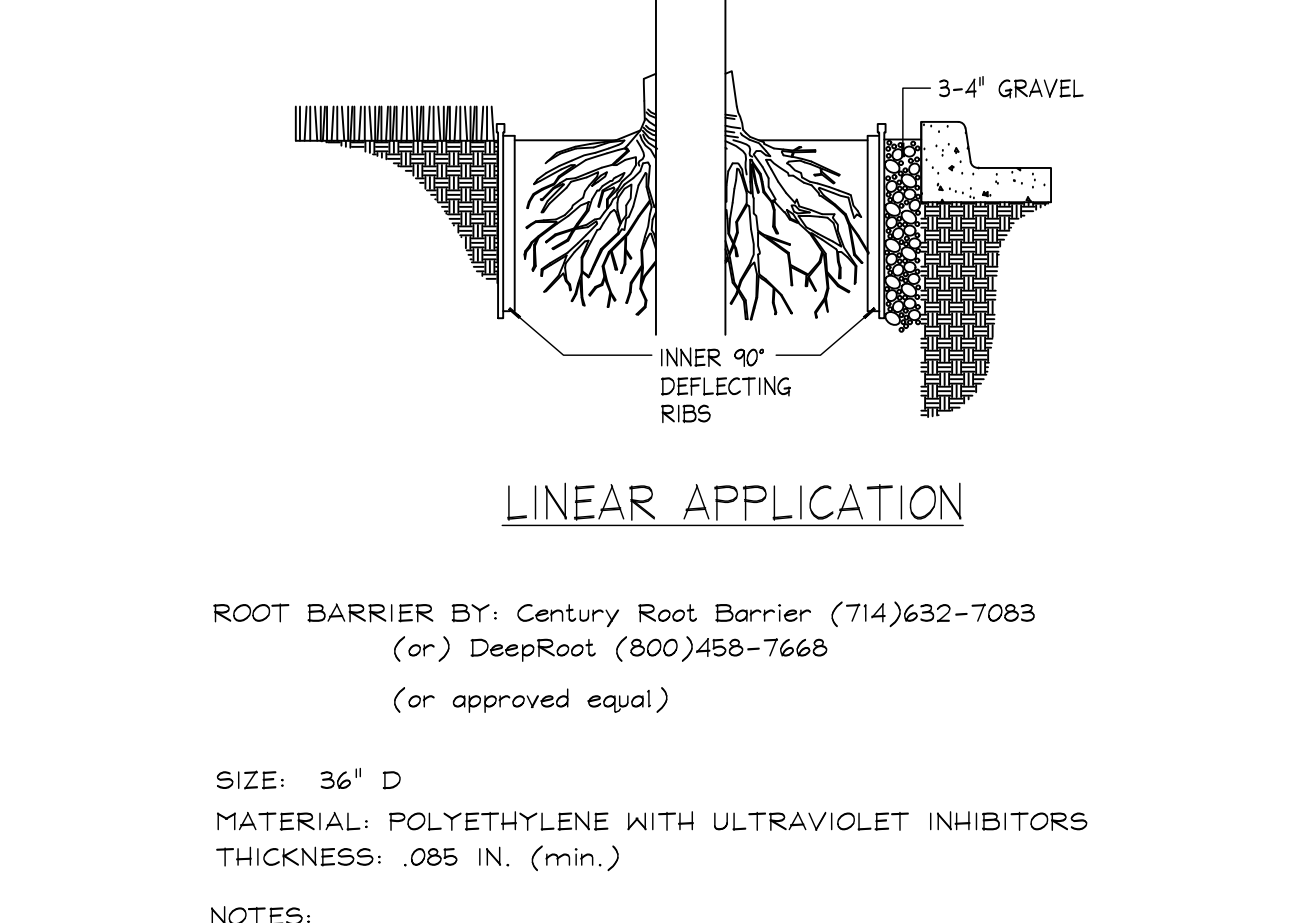
K Planting on a Slope NTS



D Fire Hydrant Clear Zone NTS



H Planted Parking Lot Islands / Medians NTS



ROOT BARRIER BY: Century Root Barrier (714)632-7083 (or) DeepRoot (800)458-7668 (or approved equal)
SIZE: 36" D
MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS
THICKNESS: .085 IN. (min.)

L Root Barrier NTS

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LICENSED PROFESSIONAL
TRICIA C. RICHTER, PLA
FLORIDA LICENSE NUMBER
LA#6667244
5/7/2018

LANDSCAPE DETAILS

Revision		
No.	Date	Description

L110.1
PROJECT: 144429018
DATE: 05/03/2018

Drawn By: MM

Checked By: CF

Approved By: SV

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

Table with 2 columns: MATERIAL, SUBMITTAL. Rows include MULCH, TOPSOIL MIX PLANTS, FERTILIZER, INNOCULANT, HERBICIDE, STAKING/GUYING.

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- 1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 20% CLEAN FLORIDA MUCK AND 80% PARTS CLEAN SAND. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
2. MUCK (OR MUCKY PEAT) FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, AND OF A VERY HIGH ORGANIC CONTENT DERIVED FROM FLORIDA SOURCES; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2' IN ANY DIRECTION, AND OTHER EXTRANEORUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
3. SAND FOR USE IN PREPARING SOIL MIXTURE SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: 'FLORIMULCH' OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

- 1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTFRUP" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

- 2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36'. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.

- 4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

- 5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

- 6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

- 7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR ROCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

- 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

- 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

- 10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

- 11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

- 12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

- 13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

- 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6', REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHIEVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

- 15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

- 16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

- 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER NEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

- A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

- C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE:

- A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"x12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADED IF NECESSARY).
B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

5. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

- 1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.



Design Services For The Built Environment

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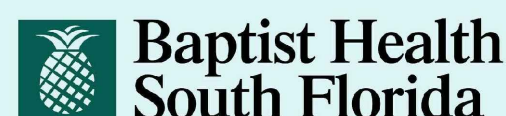
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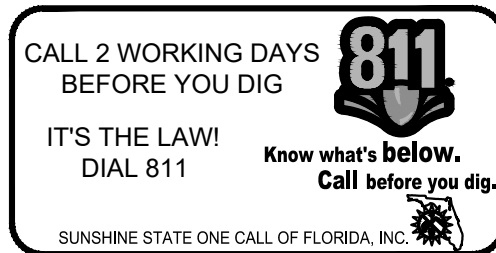
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LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244 5/7/2018

LANDSCAPE NOTES

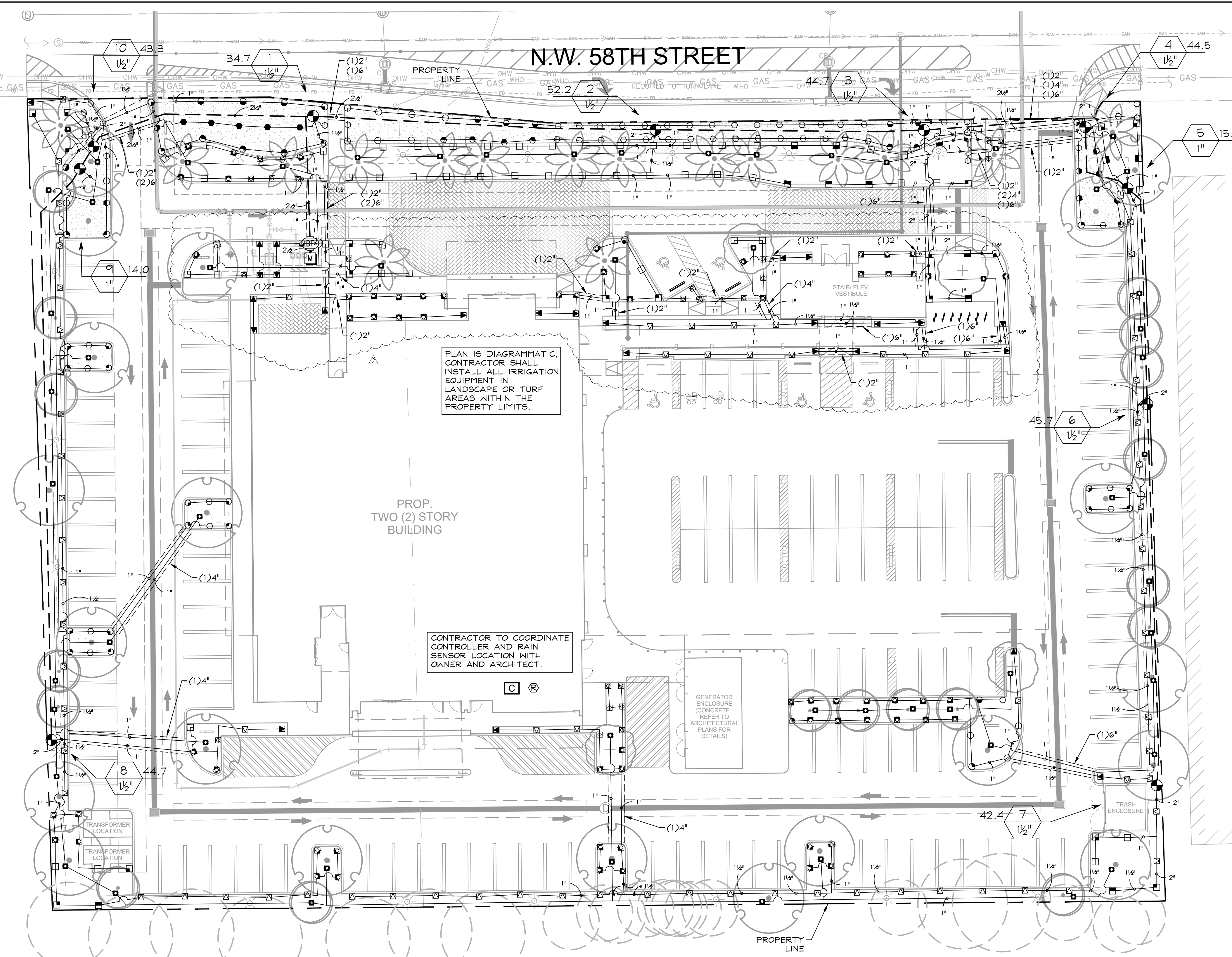
Table with 4 columns: No., Date, Description, Revision



L110.2

PROJECT: 144429018 DATE: 05/03/2018

Drawn By: MM
 Checked By: CF
 Approved By: SV



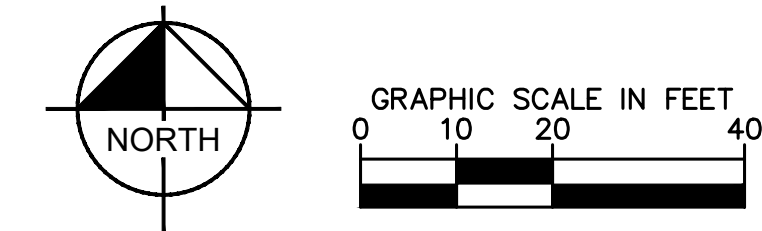
PLAN IS DIAGRAMMATIC,
 CONTRACTOR SHALL
 INSTALL ALL IRRIGATION
 EQUIPMENT IN
 LANDSCAPE OR TURF
 AREAS WITHIN THE
 PROPERTY LIMITS.

PROP.
 TWO (2) STORY
 BUILDING

CONTRACTOR TO COORDINATE
 CONTROLLER AND RAIN
 SENSOR LOCATION WITH
 OWNER AND ARCHITECT.

GENERATOR
 ENCLOSURE
 (CONCRETE -
 REFER TO
 ARCHITECTURAL
 PLANS FOR
 DETAILS)

TRASH
 ENCLOSURE



IRRIGATION SCHEDULE

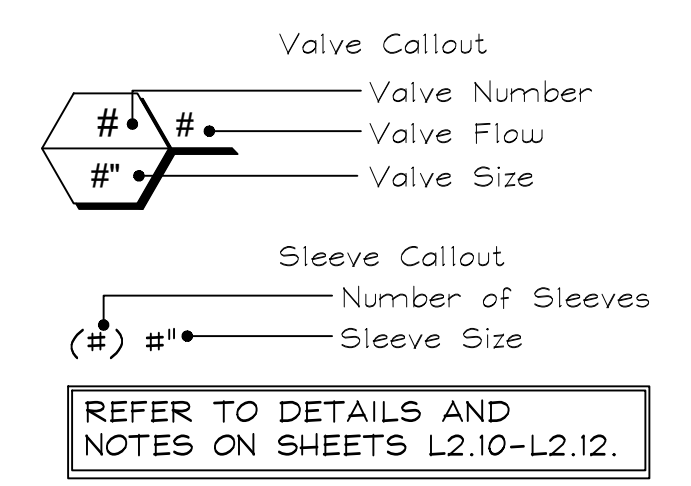
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q T H F	Rain Bird 1806-PRS 8 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating. Purple Cap.	56	30
Q T H F	Rain Bird 1806-PRS 10 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating. Purple Cap.	43	30
Q T H TO F	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating. Purple Cap.	12	30
Q T H TO F	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating. Purple Cap.	15	30
EST LCS RCS CST SST	Rain Bird 1812-PRS 15 Strip Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device. Purple Cap.	100	30
Q T H F	Rain Bird 1812-PRS 8 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device. Purple Cap.	23	30
Q T H F	Rain Bird 1812-PRS 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device. Purple Cap.	65	30
Q T H TO F	Rain Bird 1812-PRS 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device. Purple Cap.	54	30
Q T H TO F	Rain Bird 1812-PRS 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device. Purple Cap.	31	30
1402 1408 1401 1404	Rain Bird 1402 Flood Flood Bubbler on IPS flex hose per detail.	59	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
●	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	10	
BF	Backflow Preventer 2" See Civil Plans	1	
C	Rain Bird ESP8LXME with (01) ESPLXMSM12 20 Station Commercial Controller. Mounted on a Plastic Wall Mount. Without flow sensing.	1	
⊗	Hunter MINI-CLIK Rain Sensor, mount as noted	1	
M	Water Meter 1-1/2" See Civil Details	1	
---	Irrigation Lateral Line: PVC Class 200 SDR 21 ± 6,871 I.F.		
---	Irrigation Mainline: PVC Schedule 40 ± 875.8 I.F.		
---	Pipe Sleeve: PVC Schedule 40 AS NEEDED		

IRRIGATION SYSTEM NOTES

- CONTRACTOR SHALL REFER TO THE IRRIGATION DETAILS, IRRIGATION SCHEDULE, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- IRRIGATION QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ANY SUBSTITUTIONS FOR SPECIFIED IRRIGATION EQUIPMENT MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF IRRIGATION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
- IRRIGATION PLAN IS DIAGRAMMATIC. EQUIPMENT SHOWN ON IMPERVIOUS SURFACES IS FOR GRAPHIC CLARITY UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITHIN LANDSCAPE AREAS IN PROPERTY LIMITS.

THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE WITH A SOURCE PROVIDING 50 GPM AT 60 PSI.

SPRAY HEAD DESIGN PRESSURE: 30 PSI
 BUBBLER DESIGN PRESSURE: 30 PSI



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 Coral Gables, Florida 33134
 786.532.2100
 FIRM'S FLORIDA CERT. NO.
 AAP000034/CA3806
 IB26000797/LC26000381

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Baptist Health South Florida

Baptist Health Emergency Center Doral

9500 - 9540 NW 58th Street
 Doral FL 33178

LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA
 FLORIDA LICENSE NUMBER
 LA#6667244
 5/7/2018

IRRIGATION PLAN

Revision		
No.	Date	Description
Δ	03.21.2018	SITE PLAN COMMENTS
Δ	05.03.2018	SITE PLAN COMMENTS

L200.1

PROJECT: 144429018
 DATE: 05/03/2018

Drawn By: MM
 Checked By: CF
 Approved By: SV

CIVIL ENGINEERING SERVICES

FOR

BAPTIST HEALTH SOUTH FLORIDA



Design Services
 For The Built
 Environment

Atlanta GA Jacksonville FL
 Birmingham AL Knoxville TN
 Charlotte NC Louisville KY
 Cincinnati OH Memphis TN
 Columbus OH Miami FL
 Dallas TX Nashville TN
 Ft Lauderdale FL Richmond VA
 Houston TX Tallahassee FL
 Jackson MS Tampa FL

GRESHAM
 SMITH AND
 PARTNERS

Two Alhambra Plaza
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 Coral Gables, Florida 33134
 786.532.2100
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Baptist Health
 South Florida

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 Emergency
 Center Doral

9500 - 9540 NW 58th Street
 Doral FL 33178

LICENSED PROFESSIONAL

STEFANO F. VIOLA, P.E.
 FLORIDA LICENSE NUMBER
 74655

5/4/2018

COVER SHEET

Revision		
No.	Date	Description

C100.0
 PROJECT: 144429018
 DATE: 05/03/2018

LOCATION

9500-9540 NW 58TH ST
 CITY OF DORAL, FLORIDA 33178



PROJECT LOCATION



LOCATION MAP
 SCALE 1" = 80'

PROJECT LOCATION

Sheet List Table	
Sheet Number	Sheet Title
C100.0	COVER SHEET
C100.1	SITE PLAN
C101.0	GENERAL NOTES
C200.0	EROSION CONTROL PLAN
C200.1	EROSION CONTROL DETAILS
C300.0	DEMOLITION PLAN
C400.0	PAVING, GRADING, & DRAINAGE PLAN
C400.1	PAVING, GRADING, & DRAINAGE DETAILS
C400.2	PAVING, GRADING, & DRAINAGE DETAILS
C400.3	PAVING, GRADING, & DRAINAGE CROSS SECTIONS
C500.0	WATER & SEWER PLAN
C500.1	WATER & SEWER PROFILES
C500.2	WATER & SEWER DETAILS
C500.3	WATER & SEWER DETAILS
C500.4	WATER & SEWER DETAILS
C500.5	WATER & SEWER DETAILS
C500.6	WATER & SEWER DETAILS
C500.7	WATER & SEWER DETAILS
C600.0	PAVEMENT MARKING & SIGNAGE PLAN
C600.1	PAVEMENT MARKING & SIGNAGE DETAILS
L000.1	TREE DISPOSITION PLAN
L100.1	LANDSCAPE PLAN
L100.2	LANDSCAPE PLAN
L110.1	LANDSCAPE DETAILS
L110.2	LANDSCAPE NOTES
L200.1	IRRIGATION PLAN
L210.1	IRRIGATION DETAILS
L210.2	IRRIGATION NOTES
L210.3	IRRIGATION NOTES

PROJECT TEAM

CIVIL ENGINEER:

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ARCHITECT

Gresham, Smith and Partners
 Two Alhambra Plaza, Suite #1200
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FPL-Florida Power and
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 6195 NW 82nd Avenue
 Miami, FL 33166
 Contact: Edgar Aguilar

CABLE

Comcast
 2601 SW 145 Ave
 Miramar, FL 33027
 Contact: Leonard Maxwell-Newbold

GAS

Florida City Gas
 4045 NW 97th Ave
 Doral, FL 33178
 Contact: Oscar Rodriguez

WATER/SEWER

Miami Dade Water and Sewer Department
 3575 S. LeJeune Road
 Miami, FL 33157
 Phone (786)268-5320

TELEPHONE

AT&T
 1120 South Rogers Circle
 Boca Raton, FL 33487
 Contact: Dino Farruggio

ABBREVIATION LEGEND:

ADAP.	ADAPTER
A.R.V.	AIR RELEASE VALVE
A.C.P.	ASBESTOS CEMENT PIPE
AVE.	AVENUE
BOT.	BOTTOM
BUTT V.	BUTTERFLY VALVE
C.V.	CHECK VALVE
C.B.	CATCH BASIN
C.I.P.	CAST IRON PIPE
CONC.	CONCRETE
COND.	CONDUIT
C.M.P.	CORRUGATED METAL PIPE
CORP. STOP	CORPORATION STOP
CU. YD.	CUBIC YARD
DET.	DETAIL
D.I.P.	DUCTILE IRON PIPE
DWG.	DRAWING
DIV.	DIVISION
DWY.	DRIVEWAY
EL.	ELEVATION
E.O.P.	EDGE OF PAVEMENT

EXIST.

F.B. #	FIELD BOOK NUMBER
F.H.	FIRE HYDRANT
F.M.	FORCE MAIN
G.I.A.	GALVANIZED IRON PIPE
G.	GAS
G.V.	GATE VALVE
GA	GAUGE
INV.	INVERT
LAT.	LATERAL
L.P.	LIGHTPOLE
MH.	MANHOLE
MIN.	MINIMUM
MAX.	MAXIMUM
M.J.	MECHANICAL JOINT
NO.	NUMBER
PVMT.	PAVEMENT
P.V.	PLUG VALVE
PSI	POUNDS PER SQUARE INCH
P.I.	POINT OF INTERSECTION
LBS.	POUNDS
PROP.	PROPOSED

EXISTING

FIELD BOOK NUMBER
FIRE HYDRANT
FORCE MAIN
GALVANIZED IRON PIPE
GAS
GATE VALVE
GAUGE
INVERT
LATERAL
LIGHTPOLE
MANHOLE
MINIMUM
MAXIMUM
MECHANICAL JOINT
NUMBER
PAVEMENT
PLUG VALVE
POUNDS PER SQUARE INCH
POINT OF INTERSECTION
POUNDS
PROPOSED

P.V.A.

R/W	RIGHT-OF-WAY
R.C.P.	REINFORCED CONCRETE PIPE
SQ. FT.	SQUARE FEET
SEC.	SECTION
SHT.	SHEET
ST.	STREET
SAN.	SANITARY SEWER
S.S.	STORM SEWER
TAP. SLV.	TAPPING SLEEVE
T.O.P.	TOP OF PIPE
T.W.P.	TOWNSHIP
TYP.	TYPICAL
T.R.	THRUST RESTRAINT
U.P.	UTILITY POLE
UNK.	UNKNOWN
V.C.P.	VITRIFIED CLAY PIPE
W.M.	WATER MAIN
W/O	WITHOUT
W. MTR.	WATER METER

POLYVINYL CHLORIDE

RIGHT-OF-WAY
REINFORCED CONCRETE PIPE
SQUARE FEET
SECTION
SHEET
STREET
SANITARY SEWER
STORM SEWER
TAPPING SLEEVE
TOP OF PIPE
TOWNSHIP
TYPICAL
THRUST RESTRAINT
UTILITY POLE
UNKNOWN
VITRIFIED CLAY PIPE
WATER MAIN
WITHOUT
WATER METER

LEGAL DESCRIPTION:
 THE EAST 264.39 FEET OF THE WEST 396.64 FEET OF THE EAST ONE-HALF (E-1/2)
 OF TRACT 32, SECTION 21, TOWNSHIP 53 SOUTH, RANGE 40 EAST, OF FLORIDA
 FRUIT LANDS COMPANY SUBDIVISION NO. 1, ACCORDING TO THE PLAT THEREOF,
 AS RECORDED IN PLAT BOOK 2, PAGE 17, OF THE PUBLIC RECORDS OF
 MIAMI-DADE COUNTY, FLORIDA; LESS AND EXCEPT THE NORTH 45 FEET FOR ROAD
 RIGHT-OF-WAY.

TOGETHER WITH:

THE WEST 132.25 FEET OF THE EAST ONE-HALF (E-1/2) OF TRACT 32, SECTION 21,
 TOWNSHIP 53 SOUTH, RANGE 40 EAST, OF FLORIDA FRUIT LANDS COMPANY
 SUBDIVISION NO. 1, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT
 BOOK 2, PAGE 17, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA;
 LESS AND EXCEPT THE NORTH 40 FEET OF ROAD RIGHT-OF-WAY.

ALL OF SAID LANDS SITUATE, LAYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA.

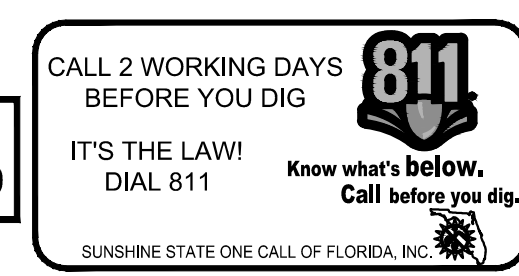
ADDRESS: 9500-9540 NW 58TH ST, DORAL, FL 33178

MIAMI-DADE COUNTY, FLORIDA, TAX FOLIO NO. 35-3021-001-0312, 35-3021-001-0315,
 35-3021-001-0314

SECTION: 21 TOWNSHIP: 53 RANGE: 40E

ALL EXISTING MAINS BEING
 IMPACTED BY THIS PROJECT AND
 ALL PROP. WATER & FORCE
 MAINS & FITTINGS TO BE
 RESTRAINED PER GS 2.0

MD-WASD
 AGREEMENT ID 23629



ELEVATIONS SHOWN HEREON REFER TO NATIONAL
 GEODETIC VERTICAL DATUM (NGVD) OF 1929.

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Drawn By: MM
Checked By: CF
Approved By: SV



Design Services
For The Built
Environment

Atlanta GA Jacksonville FL
Birmingham AL Knoxville TN
Charlotte NC Louisville KY
Cincinnati OH Memphis TN
Columbus OH Miami FL
Dallas TX Nashville TN
Ft Lauderdale FL Richmond VA
Houston TX Tallahassee FL
Jackson MS Tampa FL

GRESHAM
SMITH AND
PARTNERS

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FIRM'S FLORIDA CERT. NO.
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IB26000797/LC26000381

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Baptist Health
South Florida

Baptist Health
Emergency
Center Doral

9500 - 9540 NW 58th Street
Doral FL 33178

LICENSED PROFESSIONAL

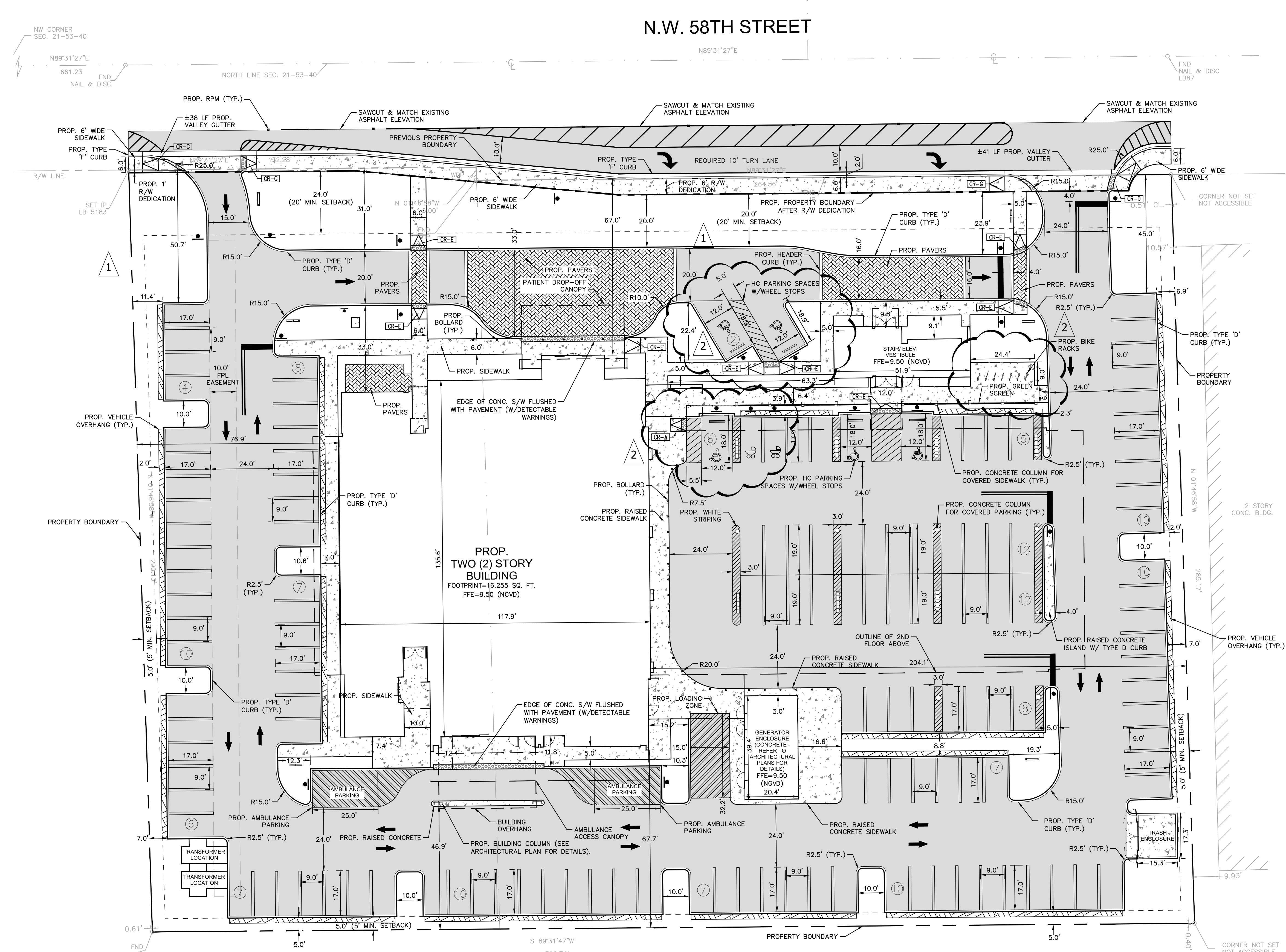
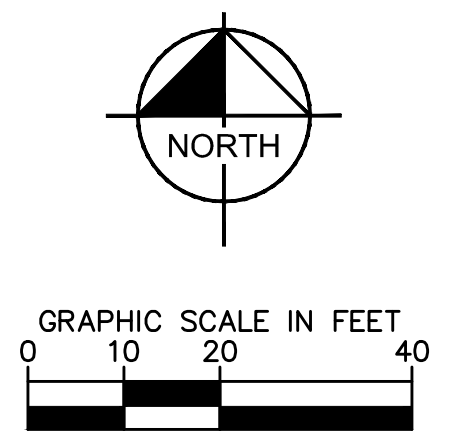
STEFANO F. VIOLA, P.E.
FLORIDA LICENSE NUMBER
74655

5/4/2018

SITE PLAN

Revision		
No.	Date	Description
1	3/21/18	SITE PLAN COMMENTS
2	5/03/18	SITE PLAN COMMENTS

C100.1
PROJECT: 144429018
DATE: 05/03/2018



LEGEND

- PROPERTY LINE
- CENTER LINE
- EXISTING CATCH BASIN
- EXISTING SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- PROP. BOLLARD
- PROP. ASPHALT PAVEMENT
- PROP. CONCRETE
- PROP. DETECTABLE WARNING
- PROP. PAVERS (SEE ARCHITECTURAL PLANS FOR DETAILS)
- PROP. 2.0' VEHICLE OVERHANG
- PROP. BUILDING OVERHANG
- PROP. BUILDING CANOPY

NOTE: REFER TO ARCHITECTURAL PLANS FOR 2ND FLOOR COLUMN LOCATIONS AND DETAILS ABOVE PARKING LOT.

PROJECT DATA

KHA PROJECT NO.:	144429018
NAME OF PROJECT:	Baptist Health South Florida-Doral
ZONING DISTRICT:	6400 Commercial-Central
SECTION, TOWNSHIP, RANGE:	21-53-40
FEMA FLOOD ZONE:	X

BUILDING SETBACKS

SETBACK	PROVIDED (FT)
FRONT (NORTH)	67
SIDE (EAST)	202
BACK (SOUTH)	68
SIDE (WEST)	77

PROPOSED AREA BREAKDOWN

Proposed Area Type	SQUARE FEET	ACRES	PERCENTAGE
Pervious			
Green	23,684	0.544	21.2%
TOTAL PERVIOUS	23,684	0.544	21.2%
Impervious			
Building	17,801	0.409	15.9%
Asphalt	60,555	1.390	54.1%
Concrete	9,815	0.225	8.8%
TOTAL IMPERVIOUS	88,171	2.024	78.8%
TOTAL SITE AREA	111,856	2.568	100.0%

PARKING REQUIREMENTS

BUILDING AREA BREAKDOWN:	AREA (SQ. FT.)	REQUIREMENT	SPACES
OVERALL BUILDING STRUCTURE	43,599	-	-
STAIRS/ELEVATOR SHAFT	1,964	-	-
OFFICE BUILDING	41,635	1/300sqft.	139
TOTAL REQUIRED PARKING SPACES:			139

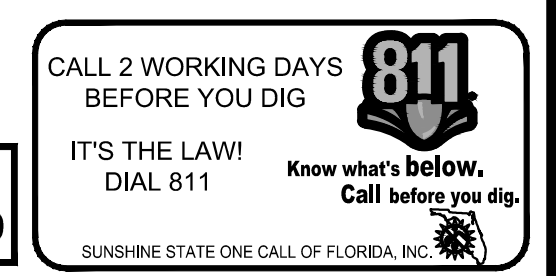
PARKING PROVIDED:

HANDICAP SPACES	5	SPACES
STANDARD SPACES	134	SPACES
STROLLER PERMIT SPACES	2	SPACES
TOTAL:	141	SPACES

LANDSCAPE BUFFER YARD DISTANCE TABLE

	DESIGN TYPE	WIDTH REQ'D	WIDTH PROV.
NORTH BUFFER YARD			
MIAMI-DADE COUNTY INTENSITY FACTOR	5	6-5=1	20'
OC INTENSITY FACTOR	6	REDUCED BY 2 FOR R.O.W. = 0' REQ'D	
WIDTH OF R.O.W.	80'		
EAST BUFFER YARD			
CC ZONING INTENSITY FACTOR	7	7-6=1	5'
OC INTENSITY FACTOR	6	5' REQ'D	
WEST BUFFER YARD			
CC INTENSITY FACTOR	7	7-6=1	5'
OC INTENSITY FACTOR	6	5' REQ'D	
SOUTH BUFFER YARD			
GU INTENSITY FACTOR	5	6-5=1	5'
OC INTENSITY FACTOR	6	5' REQ'D	

MD-WASD
AGREEMENT ID 23629



Plotted By: Levine, Anabella Sheet Set: BHSF-DORAL Layout: SITE PLAN May 04, 2018 10:51:28am K:\VTL_Civil\144 Jobs\144429018-BHSF-Doral\CAD\Plansheets\C100.1 Site Plan.dwg

Drawn By: MM
Checked By: CF
Approved By: SV

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATION THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITION THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE HIS PRICING ACCORDINGLY. GEOTECHNICAL AND ENVIRONMENTAL REPORTS ARE AVAILABLE FOR REVIEW.
4. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
8. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
9. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
12. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
13. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
14. ANY WELL TO REMAIN SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE MAINTENANCE OF TRAFFIC FOR THE ADJACENT PROPERTY DURING CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
17. PRIOR TO GRAND OPENING THE CONTRACTOR SHALL:
 - SWEEP THE ENTIRE SITE
 - ELIMINATE ALL DEBRIS IN THE LANDSCAPING AREAS
 - PRESSURE CLEAN THE SITE ASPHALT
 - PRESSURE CLEAN THE CURBS, SIDEWALKS, AND ANY CONCRETE PADS

RECORD DRAWINGS

1. CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER A MINIMUM OF 10 HARD COPIES OF A PAVING, GRADING AND DRAINAGE RECORD DRAWING AND A SEPARATE UTILITY RECORD DRAWING, AS WELL AS BOTH IN AUTOCAD 2013 OR LATER, BOTH PREPARED BY A FLORIDA REGISTERED SURVEYOR. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS OF THE SAME NAME.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONS RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
6. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
7. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
8. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2' DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
9. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2' DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
10. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
11. IF DOWELING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
12. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
13. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
14. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDS AS SPECIFIED IN THE PLANS. FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDS AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
15. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) : 1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
17. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS, AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
18. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
19. PROJECT SHALL MEET THE REQUIREMENTS OF THE CITY'S FLOOD PLAIN MANAGEMENT ORDINANCE.
20. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
21. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
22. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
 2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE, UNLESS OTHERWISE NOTED. ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
 3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
 4. CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES OR DRAINAGE STRUCTURES TO REMAIN.
1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

WATER AND SEWER UTILITY NOTES

4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED 75% OF THE MAXIMUM DEFLECTION AS RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, CONSTRUCTION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE EQUIPMENTS OF CHAPTER 62-555.320, FAC.
11. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-VELL PLASTIC PIPE ASSOCIATIONS' GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEM
12. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION.
13. ALL WATER MAIN PIPES SHALL BE COLOR CODED USING BLUE AS A PREDOMINANT COLOR IN ACCORDANCE WITH RULE 62-555.320(2)1B)(3), FAC.
14. ALL WATER MAINS SHALL BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" FOR DIP.
15. NO CONNECTIONS TO EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS & BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO MDWASD.
16. LOCATOR TAPE AND WIRE SHALL BE INSTALLED ON ALL NEW WATER MAINS. TAPE WILL BE 3" WIDE AND COLOR CODED AND INSTALLED 12" ABOVE WATER MAIN. WIRE WILL BE 14 STRAND AND COLOR CODED.
17. R.P.M.'S TO BE INSTALLED PRIOR TO C/O AT CENTER OF NEAREST DRIVE AISLE ADJACENT TO ALL HYDRANTS (BLUE). FOR HYDRANTS AT CORNERS, TWO (2) R.P.M.'S SHALL BE INSTALLED, ONE AT EACH ROADWAY.
18. WATER DISTRIBUTION SYSTEM MATERIAL:
 - A. THE WATER MAIN SHALL BE DUCTILE IRON PIPE (DIP).
 - B. WHERE DUCTILE IRON PIPE (DIP) IS REQUIRED IT SHALL BE 60-42-10 CLASS 50 WALL THICKNESS WITH INTERIOR CEMENT LINING AND EXTERIOR COAL TAR COATING CONFORMING TO ANSI/AWWA C151/A21.51-LATEST REVISION.
 - C. PIPE JOINTS SHALL BE MECHANICAL, CONFORMING TO AWWA C-111-00.
 - D. ALL GASKETS SHALL BE NEOPRENE, WHERE REQUIRED POLYETHYLENE WRAP SHALL BE INSTALLED.
19. GRAVITY SEWAGE COLLECTION SYSTEM MATERIAL:
 - A. ALL SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SRD 35, WITH PUSH-ON RUBBER GASKET JOINTS.
 - B. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR EQUAL.
 - C. WHERE DIP IS REQUIRED, IT SHALL BE 60-42-10 CLASS 50 WALL THICKNESS WITH INTERIOR POLY LINING AND EXTERIOR COAT FOR COATING CONFORMING TO ANSI/AWWA C151/A21.51-91.
- MANHOLES
 - A. MANHOLES SHALL BE PRECAST PER ASTM C 478 WITH 4000 PSI CONCRETE AND GRADE 40 STEEL.
20. TESTING:
 - A. PRIOR TO ANY PHYSICAL CONNECTIONS TO EXISTING WATER MAIN SYSTEM, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION. PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST, OTHERWISE, TEST SHALL BE CONSIDERED UNSATISFACTORY.
 - B. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT (MDWASD) AND THE ENGINEER OF RECORD.
 - C. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C681-05 OR LATEST REVISION.
 - D. ALL NEW WATER MAINS SHALL BE PIGGED PRIOR TO DISINFECTING.
 - E. METER CONNECTIONS SHALL BE MADE TO NEW LINES ONLY AFTER TWO CONSECUTIVE DAYS OF BACTERIOLOGICAL SAMPLES HAVE PASSED, AND COPIES OF RESULTS HAVE BEEN PROVIDED TO THE ENGINEER OF RECORD, MDWASD REPRESENTATIVE, AND MIAMI-DADE COUNTY HEALTH DEPT.
 - F. SAMPLING POINTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS. SAMPLING POINTS SHALL BE PROVIDED AT INTERVALS OF A MAXIMUM OF 1200' UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - G. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FOLLOWING FORMULA:
$$L = S \cdot D \cdot \sqrt{P}$$
$$148,000$$

IN WHICH L EQUALS THE MAXIMUM ALLOWABLE LEAKAGE IN GALLONS PER HOUR, S EQUALS LENGTH OF PIPE (FT), D EQUALS NOMINAL DIAMETER OF PIPE (IN), AND P EQUALS THE MINIMUM TEST PRESSURE (LBS/SQUARE IN.).

PAVEMENT MARKINGS NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH FDOT STANDARD INDEX # 17346, WHERE SHOWN ON THE PLANS
2. WHERE THE PLANS CALL FOR PAINTED PAVEMENT MARKINGS, INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 710 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE FOLLOWING: CONTRACTOR TO APPLY TWO COATS OF VOC COMPLIANT, LOCAL DOT DOT APPROVED, UNDILUTED, SOLVENT BASED OR LATEX PAINT. CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDED APPLICATION RATE WITHOUT THE ADDITION OF A THINNER, WITH A MAXIMUM OF 100 SQUARE FEET PER GALLON OR AS REQUIRED PROVIDING MINIMUM 15 MILS WET FILM THICKNESS AND 7.5 MILS DRY FILM THICKNESS PER COAT WITH MINIMUM OF 30 DAYS BETWEEN APPLICATIONS. SECOND COAT OF PAINT SHALL NOT BE APPLIED EARLIER THAN 7 DAYS PRIOR TO GRAND OPENING. PAINT SHALL BE CRISP, STRAIGHT AND APPLIED UNIFORMLY ACROSS THE WIDTH OF A LINE FOR A TOTAL DRY FILM THICKNESS OF 15 MILS.
3. ALL PAVEMENT SYMBOLS AND MARKINGS ARE TO BE THERMOPLASTIC WITH THE EXCEPTION OF PARKING STRIPING. THERMOPLASTIC INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 711 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEED. THESE AREAS SHALL BE SEEDS NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
17. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

- ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
 2. ALL SEEDS AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDS AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.

1. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
2. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
3. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
4. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

TYPICAL ENGINEER OBSERVATIONS

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:

- PRE-CONSTRUCTION MEETING
- SUBGRADE PREPARATION
- BASE INSTALLATION
- ASPHALT INSTALLATION
- UNDERGROUND PIPING AND UTILITIES INSTALLATION
- INSTALLATION OF STRUCTURES, DDCV, HYDRANTS, METERS, ETC.
- SIDEWALK INSTALLATION
- CONNECTIONS TO WATER AND SEWER MAINS
- TESTS OF UTILITIES
- ANY OTHER INSPECTION FOR WHICH A PERMITTING AGENCY REQUIRES THE ENGINEER TO BE PRESENT

3RD PARTY TEST REPORTS REQ'D

TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO:

- DENSITY TEST REPORTS
- BACTERIOLOGICAL TESTS OF WATER SYSTEM
- PRESSURE TEST OF WATER/SEWER
- LEAK TESTS ON SEWER SYSTEM AND GREASE TRAPS
- ANY OTHER TESTING REQUIRED BY THE AGENCY

MD-WASD
AGREEMENT ID 23629



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AAP000034/CA3806
IB2600079/7L/C26000381

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LICENSED PROFESSIONAL

STEFANO F. VIOLA, P.E.

FLORIDA LICENSE NUMBER
74655

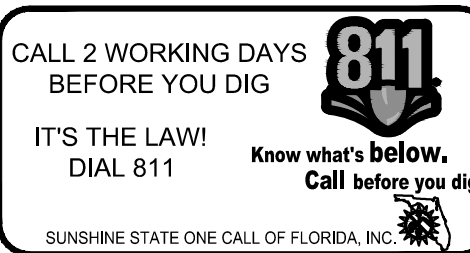
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GENERAL NOTES

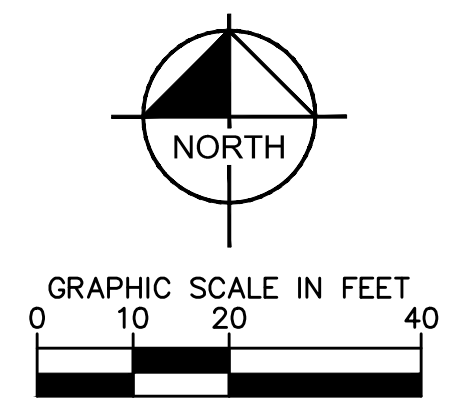
Revision		
No.	Date	Description

C101.0

PROJECT: 144429018
DATE: 05/03/2018



Drawn By: MM
 Checked By: CF
 Approved By: SV



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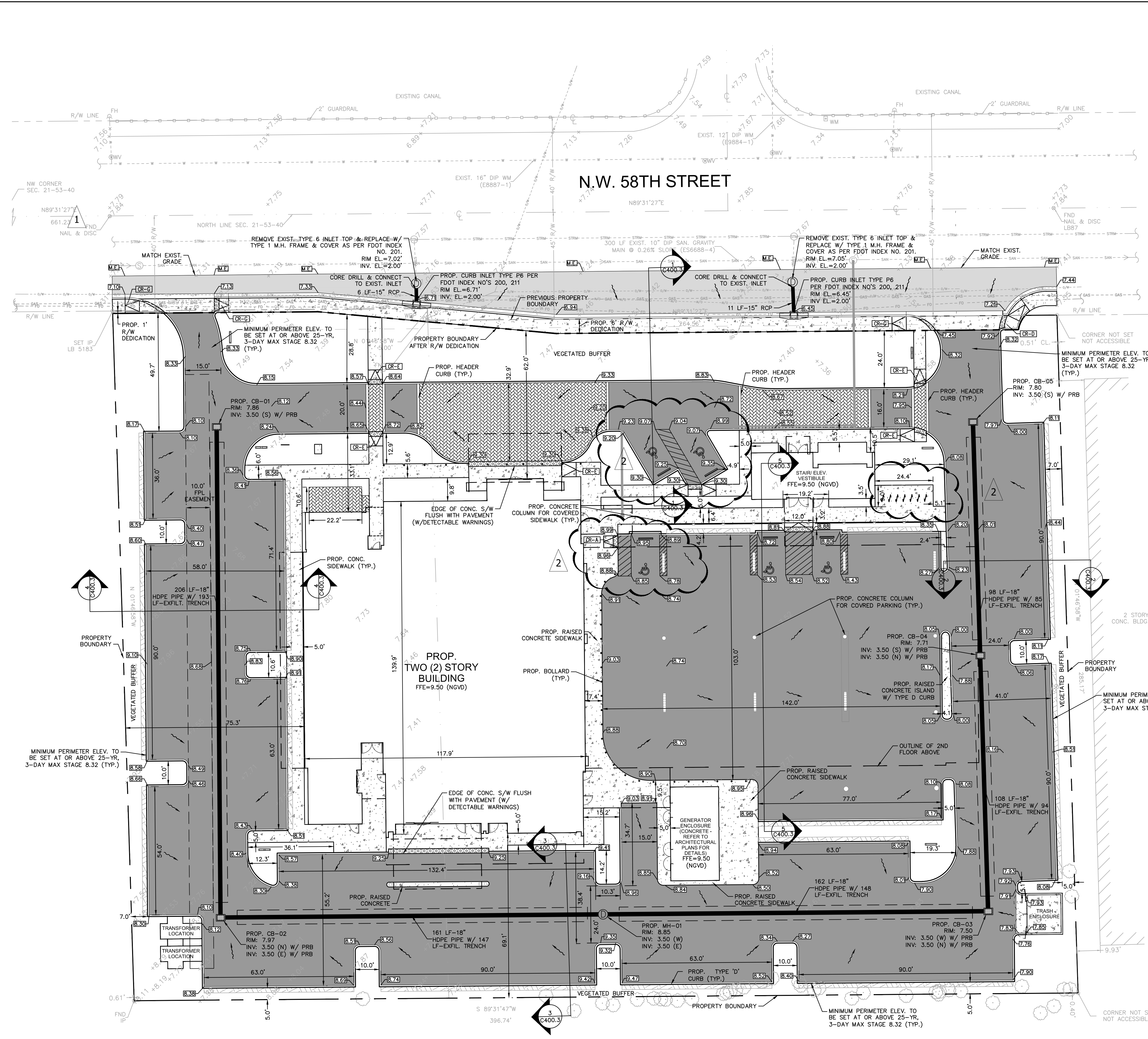
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5/4/2018

PAVING, GRADING, &
 DRAINAGE PLAN

Revision		
No.	Date	Description
1	3/21/18	SITE PLAN COMMENTS
2	5/03/18	SITE PLAN COMMENTS

C400.0
 PROJECT: 144429018
 DATE: 05/03/2018



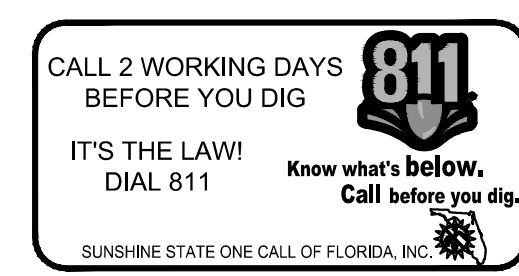
LEGEND

- PROPERTY LINE
- CENTER LINE
- PROP. BUILDING OVERHANG
- PROP. BUILDING CANOPY
- EXISTING STORM SEWER
- EXISTING CATCH BASIN
- EXISTING SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING ELEVATION
- PROP. STORM DRAINAGE
- PROP. EXFILTRATION TRENCH
- PROP. CATCH BASIN
- PROP. STORM MANHOLE
- PROP. ELEVATION
- MATCH EXISTING ELEVATION
- PROP. FLOW ARROW
- PROP. ASPHALT PAVEMENT
- PROP. ASPHALT PAVEMENT AS PER MIAMI-DADE COUNTY STANDARDS
- PROP. DETECTABLE WARNING
- PROP. CONCRETE
- PROP. PAVERS
- PROP. 2.0' VEHICLE OVERHANG

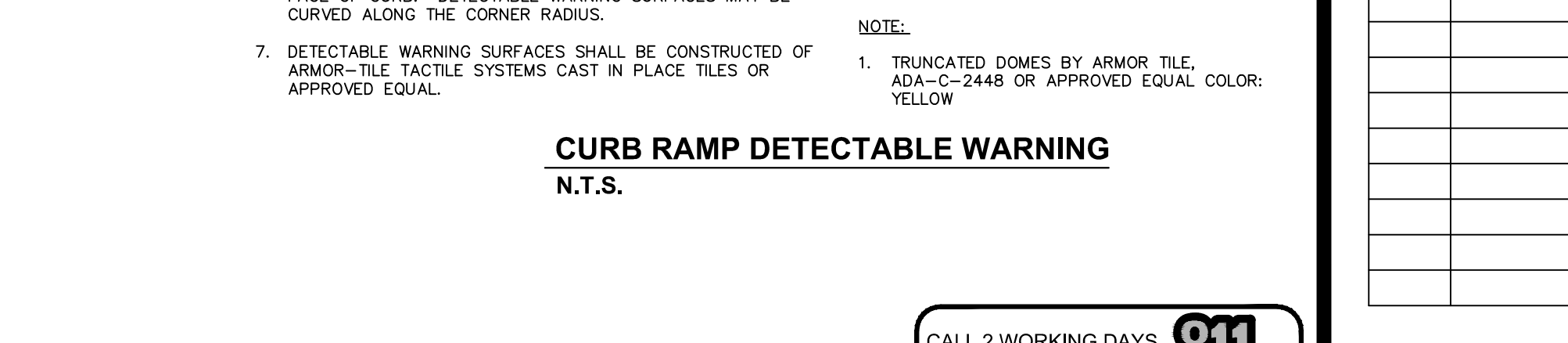
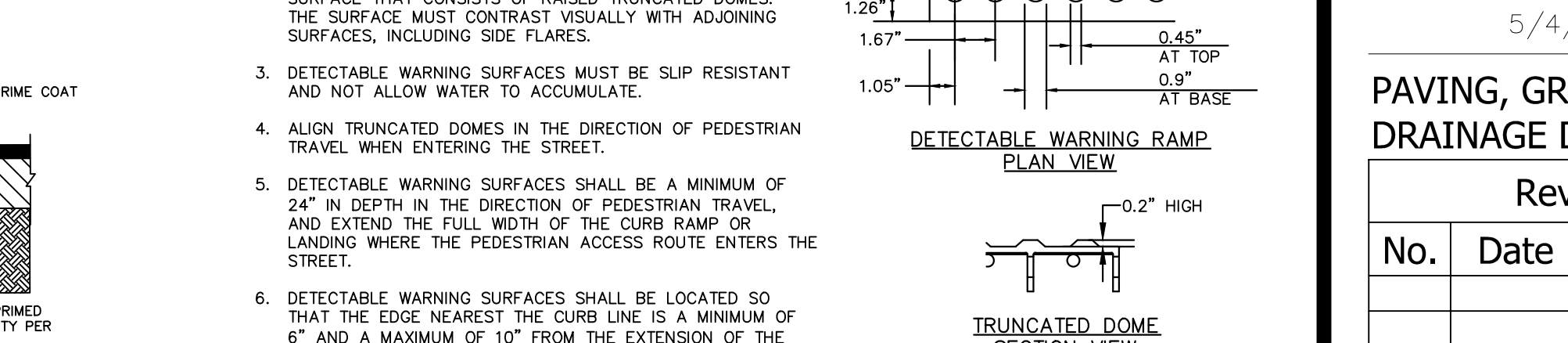
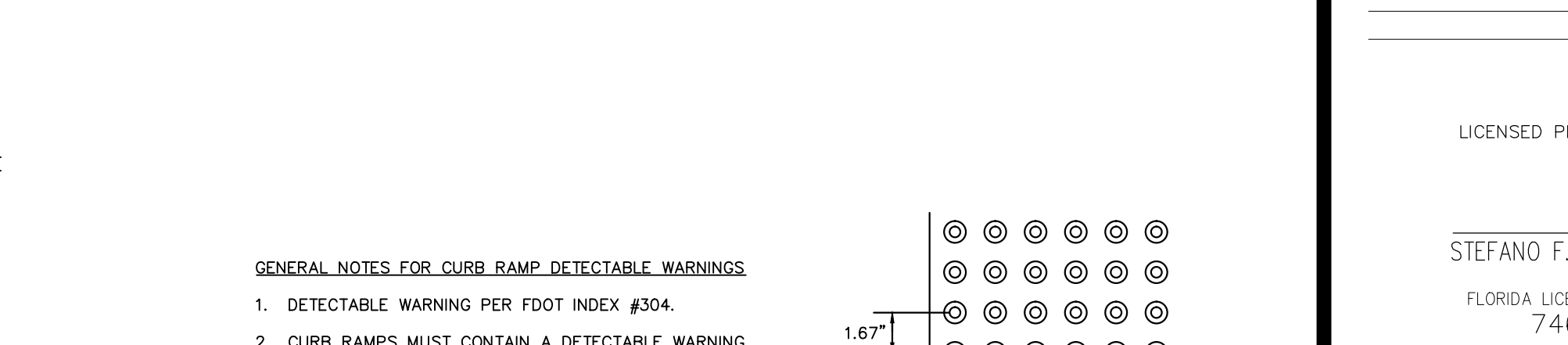
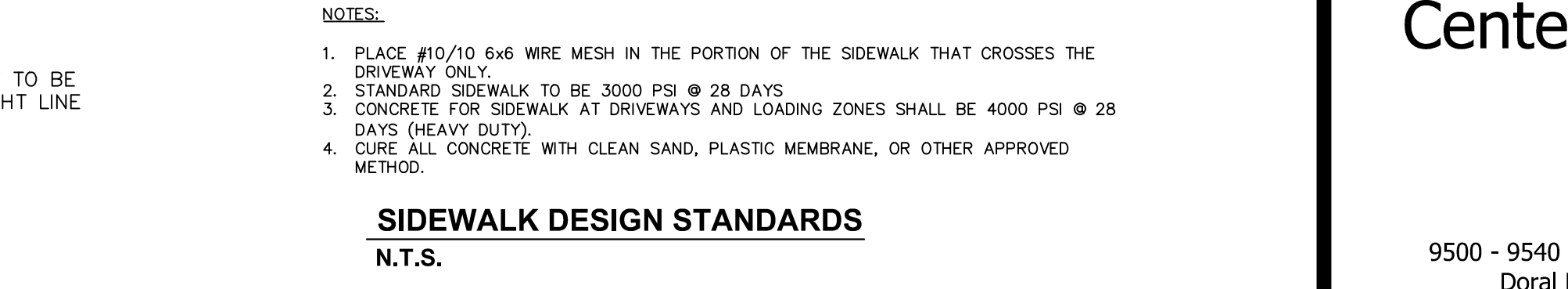
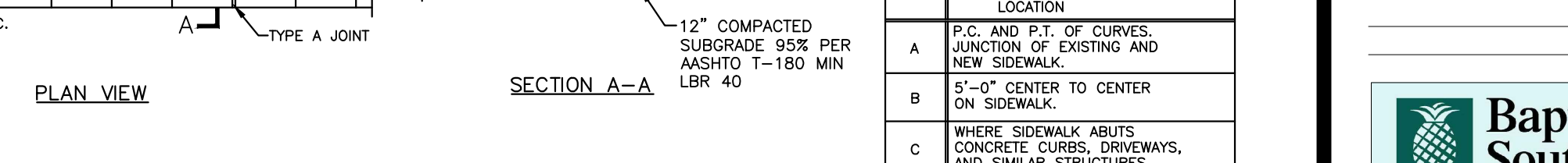
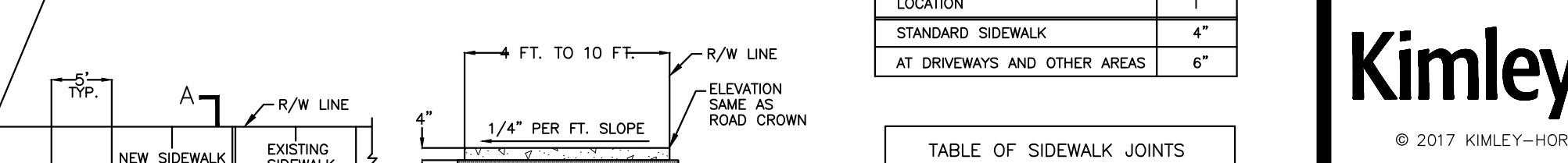
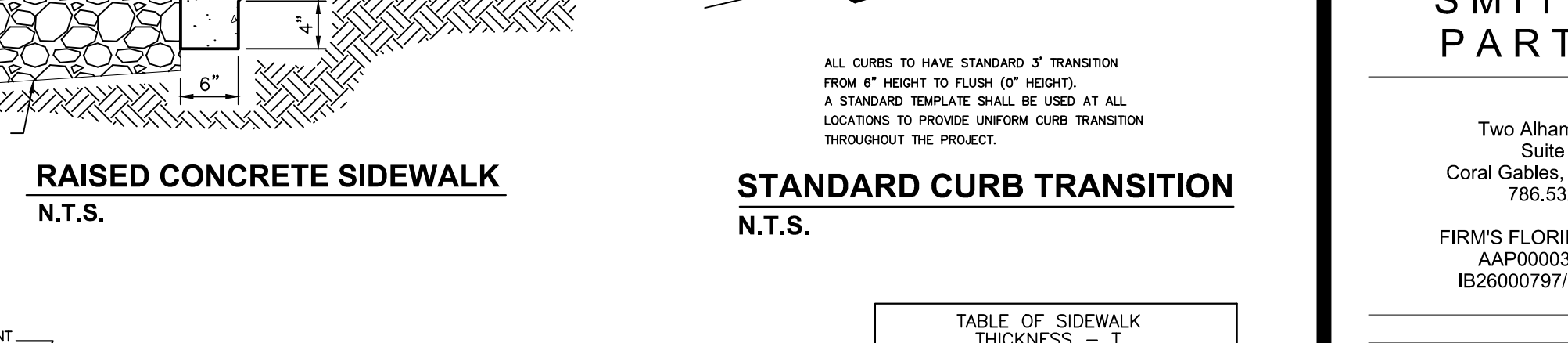
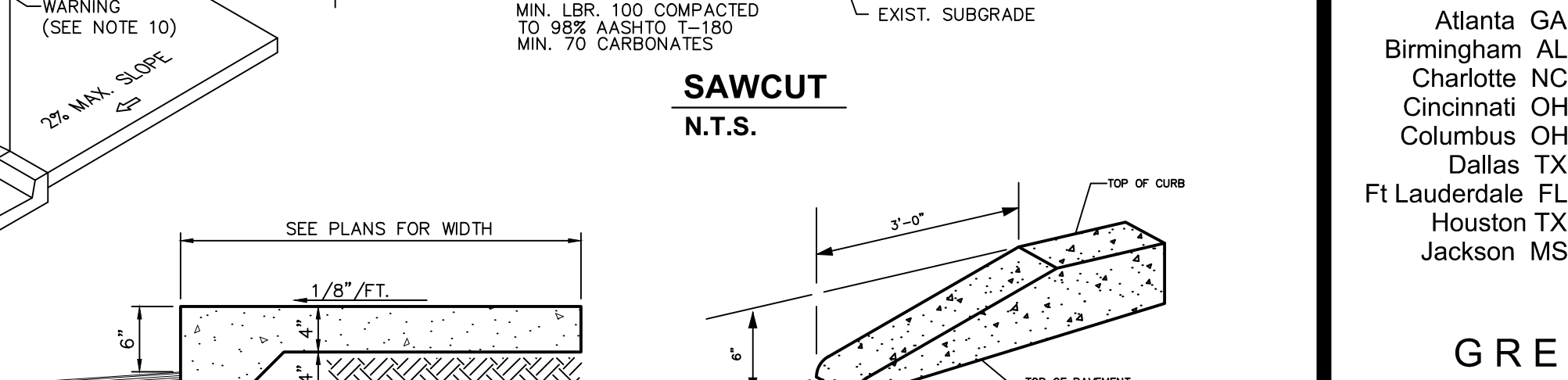
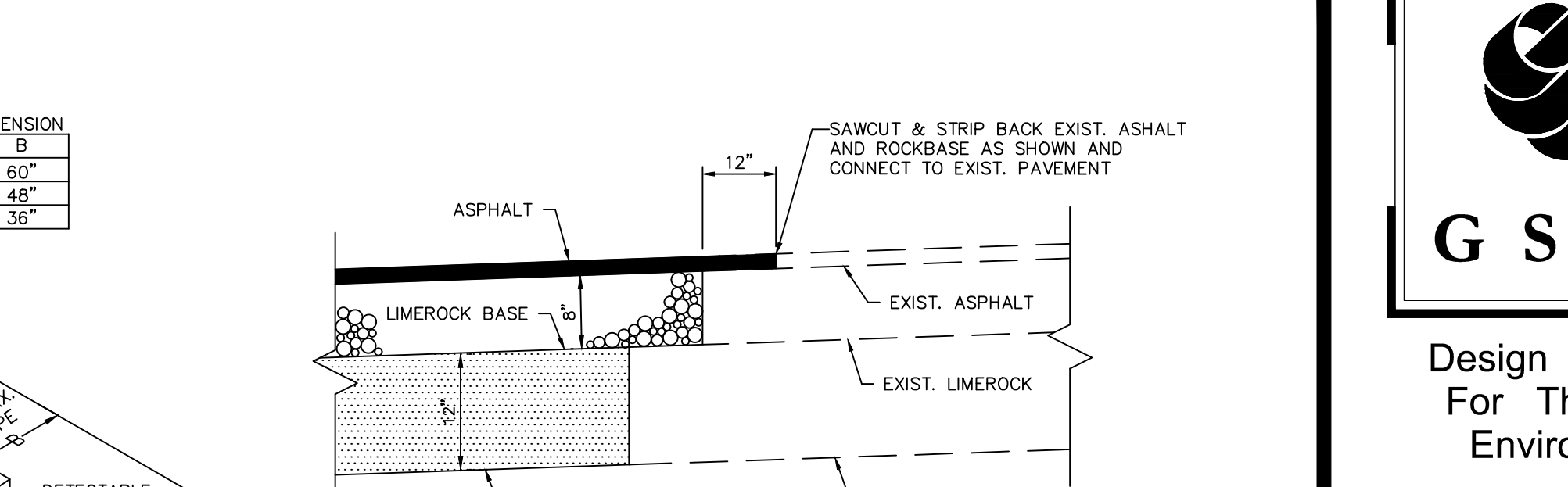
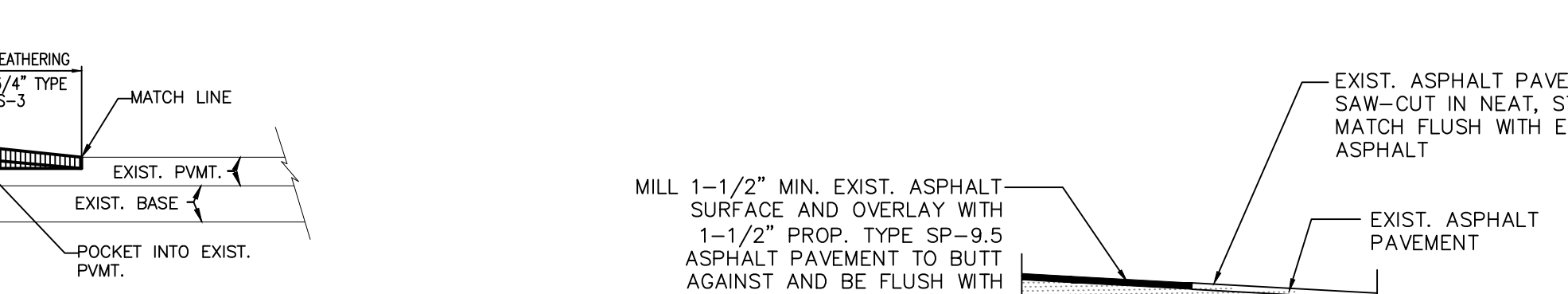
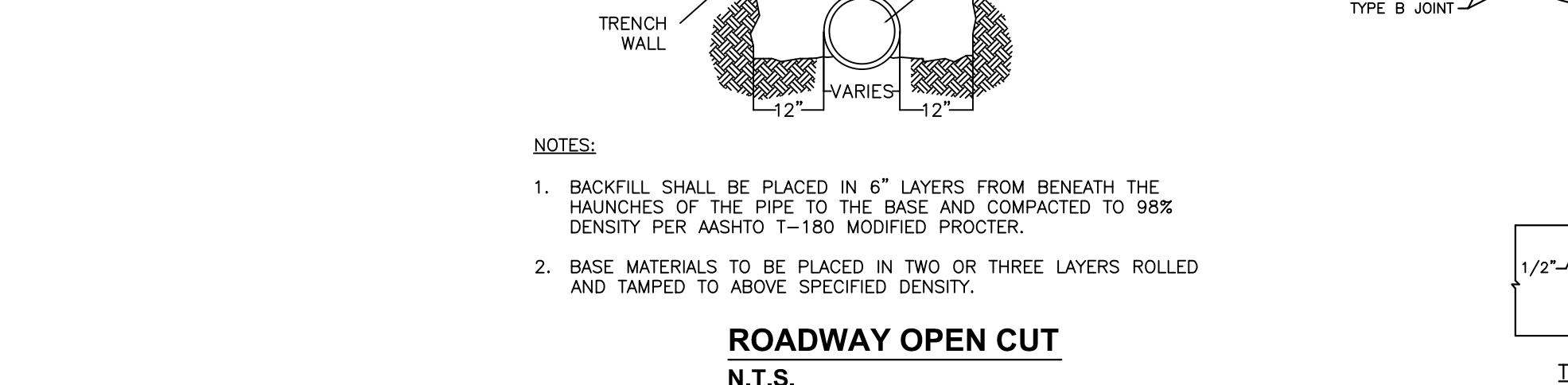
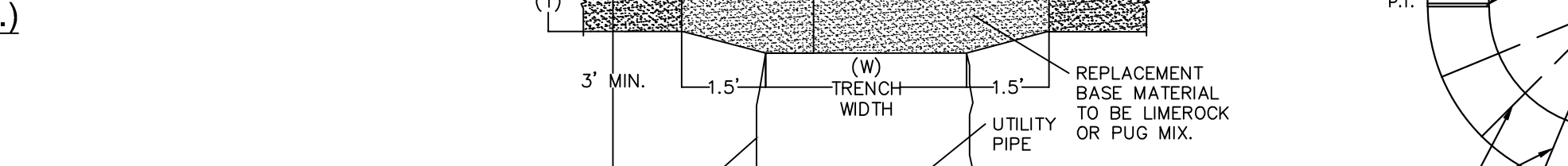
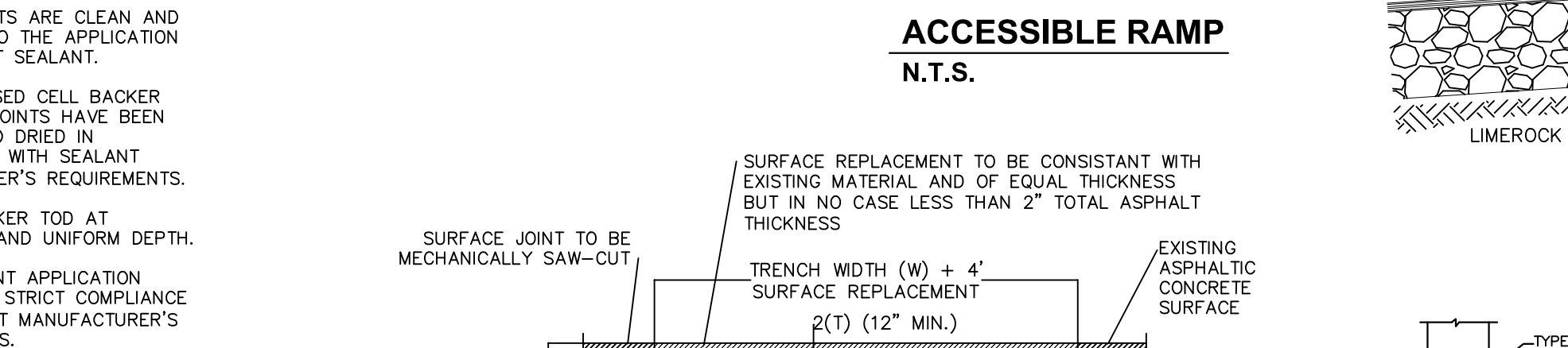
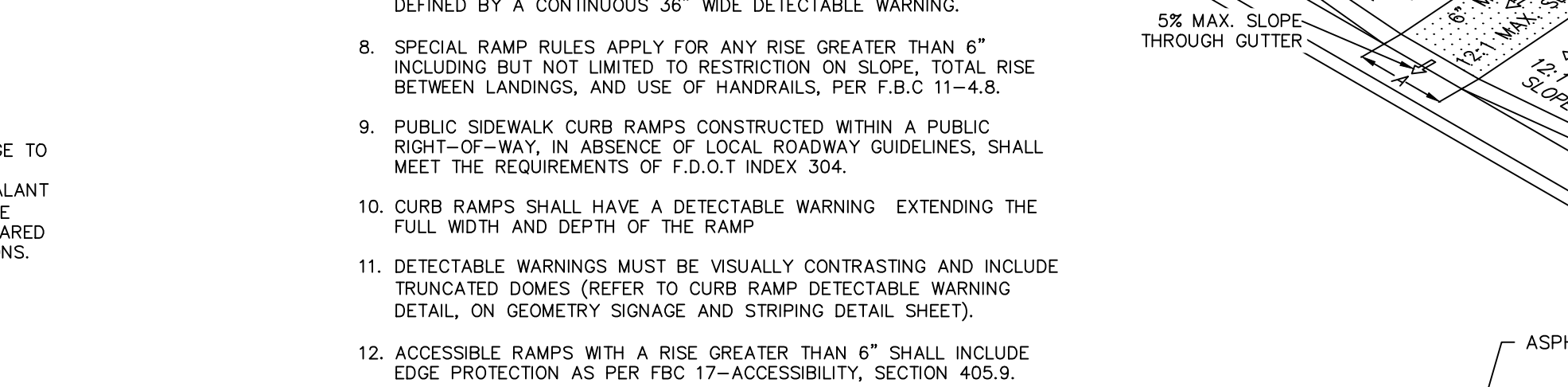
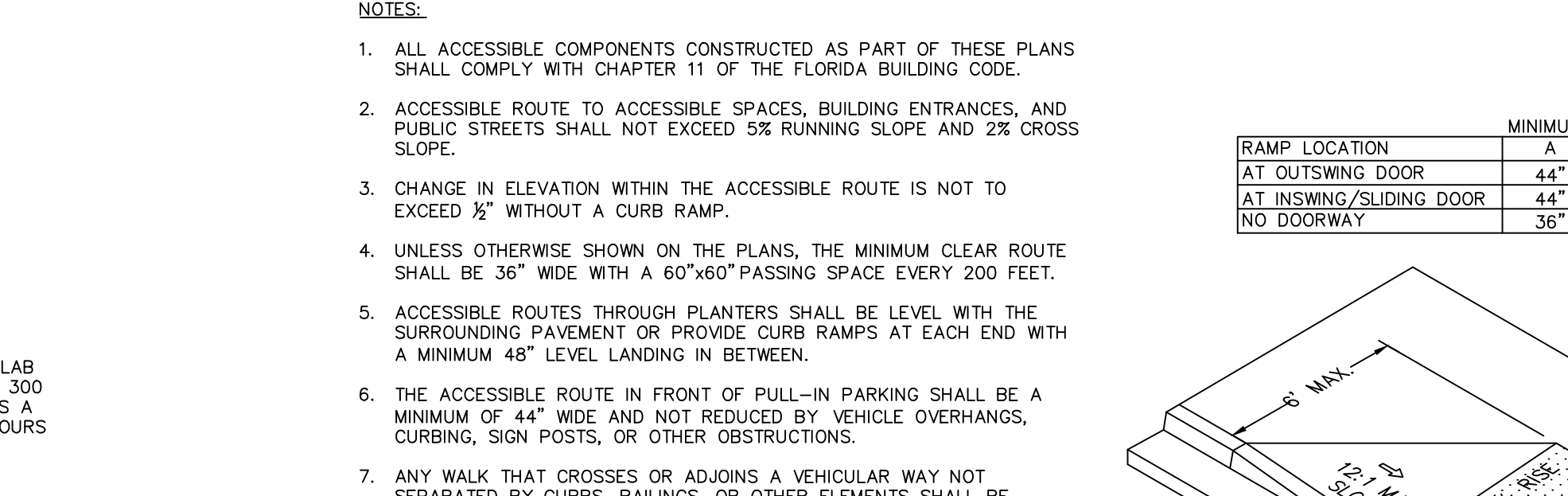
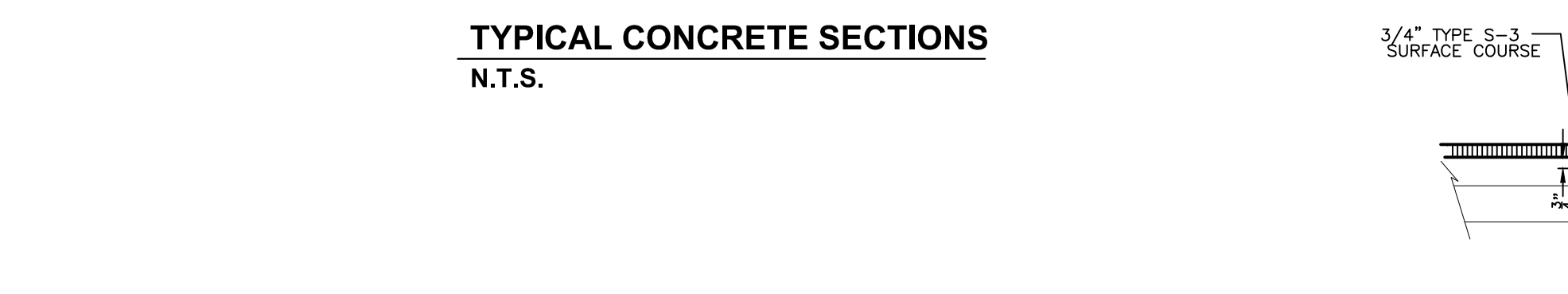
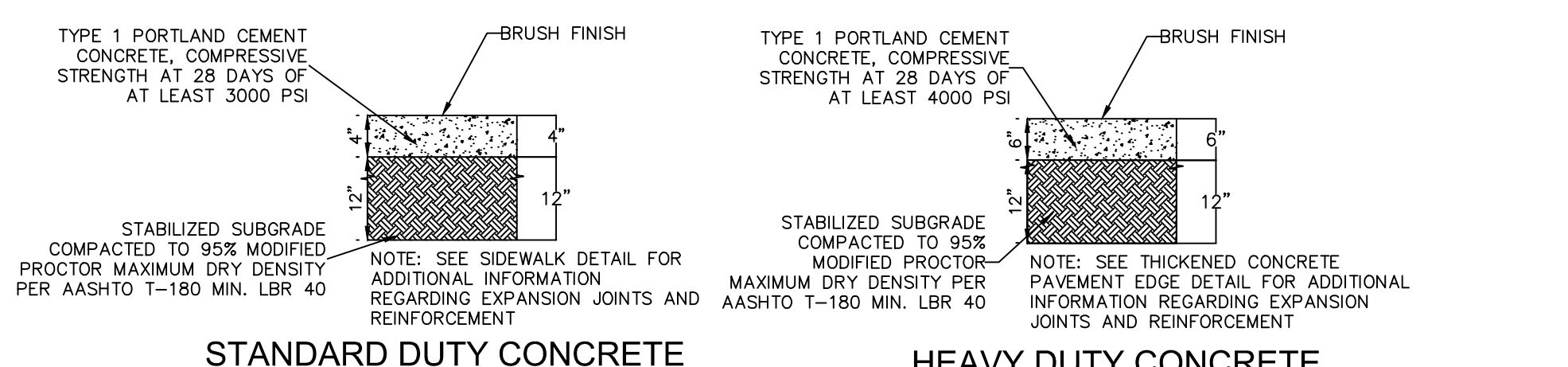
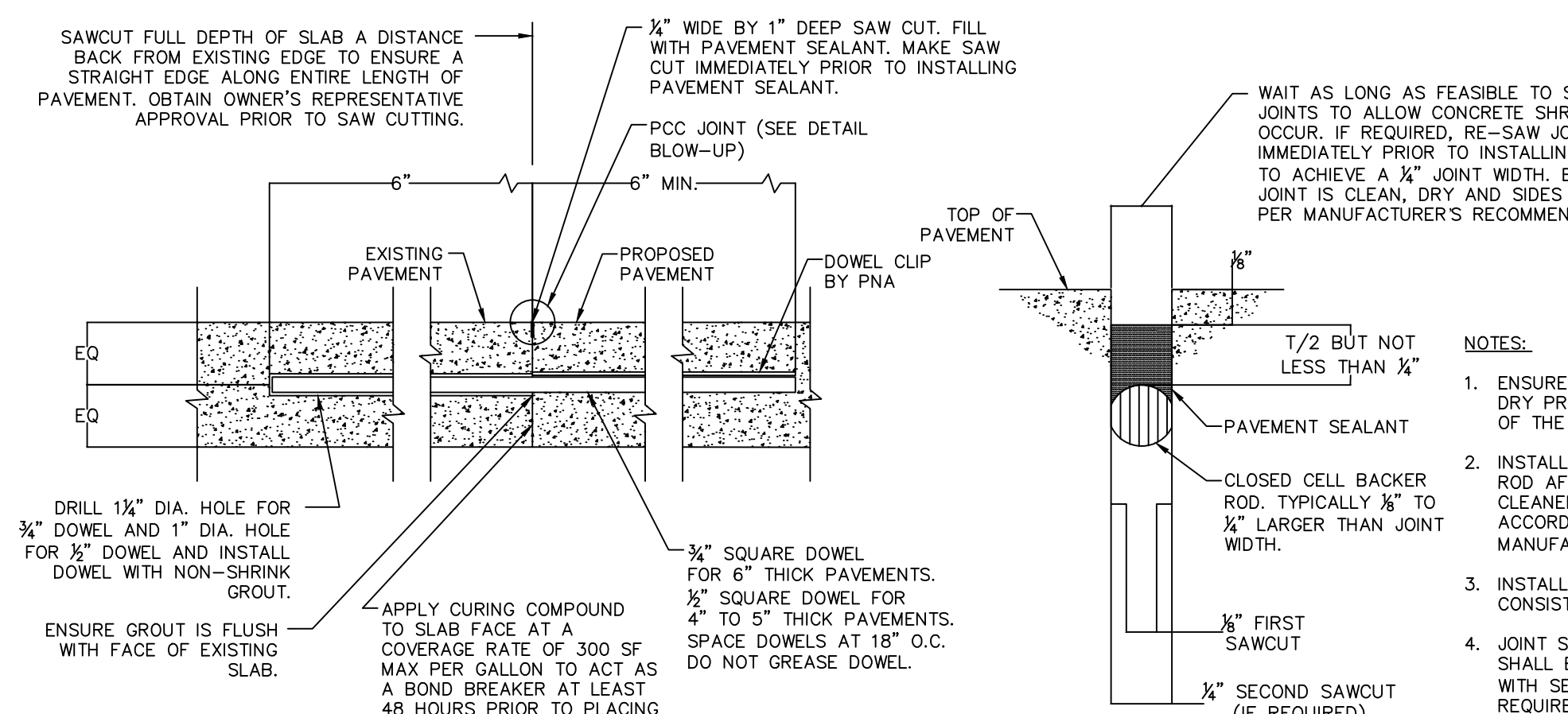
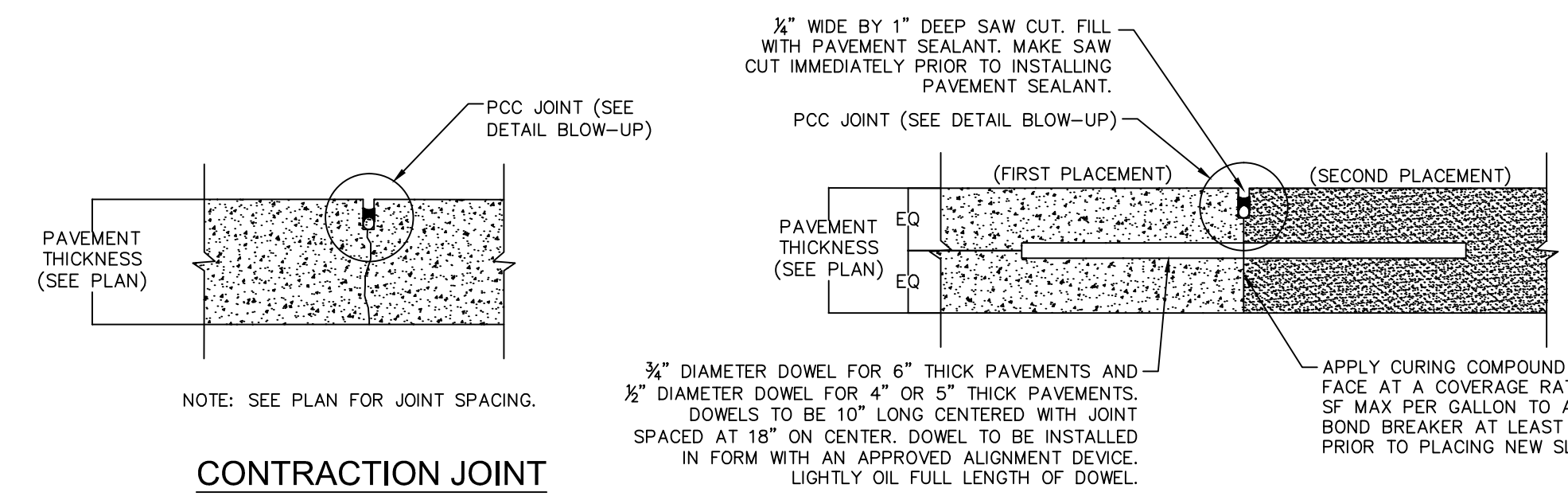
NOTE: REFER TO ARCHITECTURAL PLANS FOR 2ND FLOOR COLUMN LOCATIONS AND DETAILS ABOVE PARKING LOT.

- NOTES:**
- PROP. SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5% AS PER DETAIL PROVIDED.
 - BERM TO BE CONSTRUCTED OF SUITABLE FILL MATERIAL. NO MUCK OR OPEN GRADED SILICA (SUGAR) SAND WILL BE ACCEPTABLE.
 - BERM TO BE COMPACTED TO 92% DENSITY AND SODDED OR STABILIZED IN AN APPROVED METHOD TO PREVENT EROSION.
 - TOP OF BERM TO BE CONSTRUCTED TO A MINIMUM ELEVATION EQUAL TO THE PROJECTED 25 YEAR STORM EVENT AS STATED ON THE PLANS.
 - REFER TO SHEET C400.2 FOR EXFILTRATION TRENCH DETAIL.
 - ALL PROP. CONCRETE SIDEWALK ACROSS DRIVEWAYS SHALL BE 6" THICK.

GROUND WATER TABLE ELEVATION = 3.50
 ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.



Drawn By: MM
Checked By: CF
Approved By: SV



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C400.1
PROJECT: 144429018
DATE: 05/03/2018



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FLORIDA LICENSE NUMBER
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5/4/2018

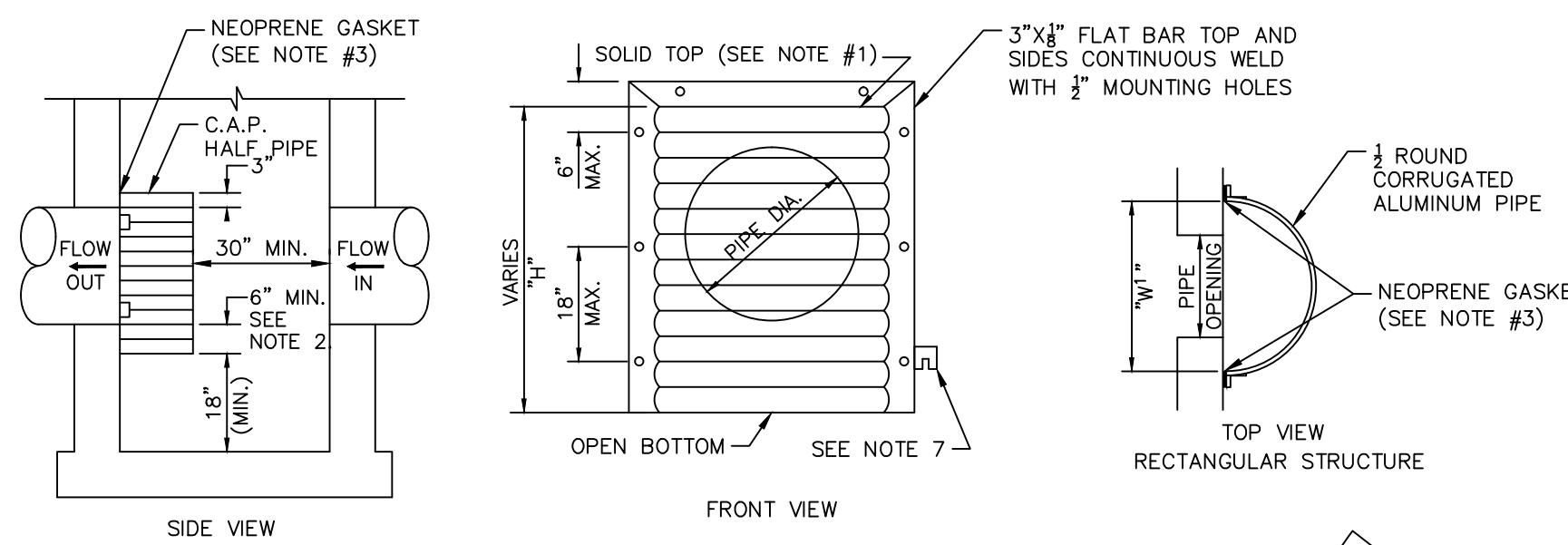
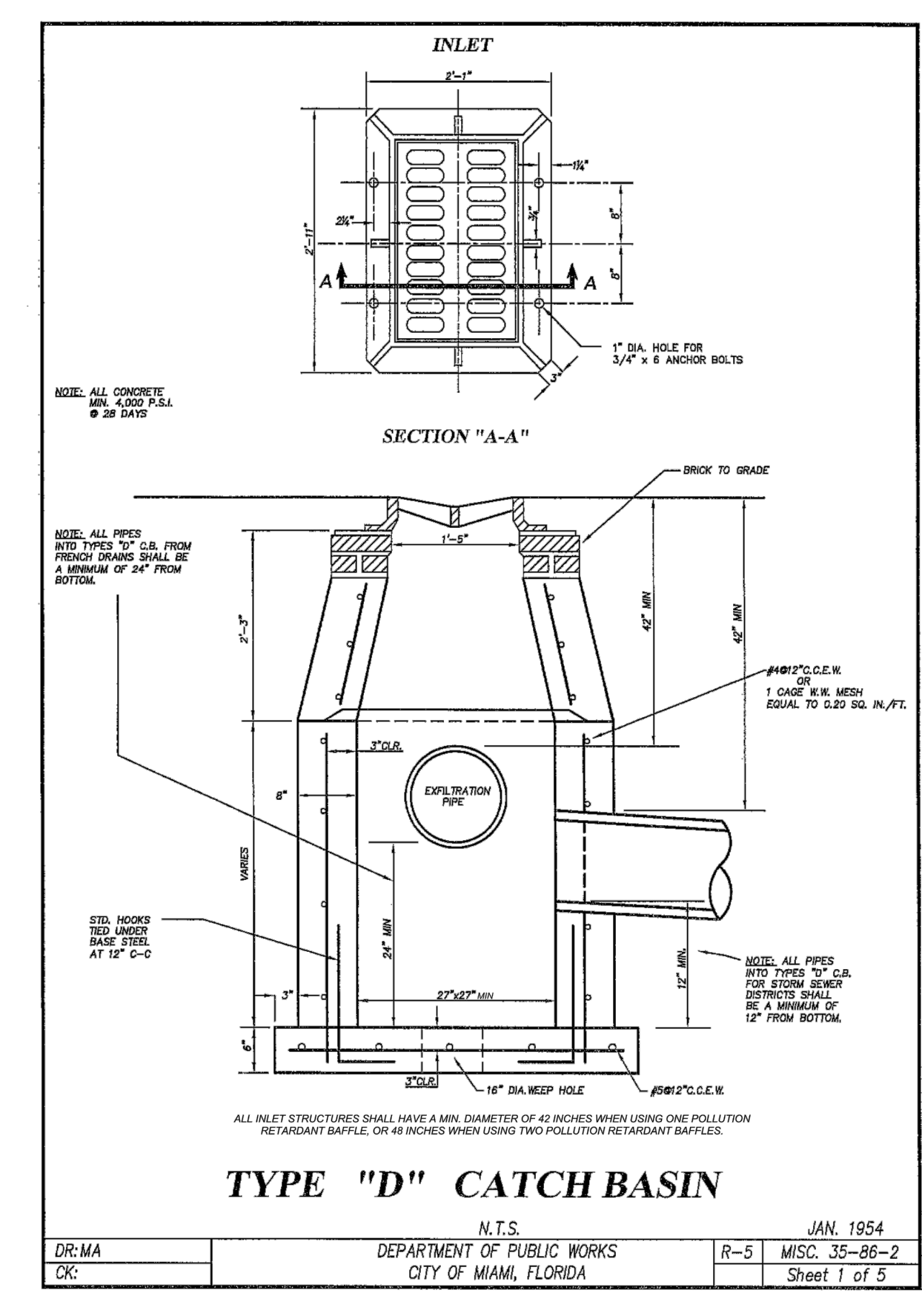
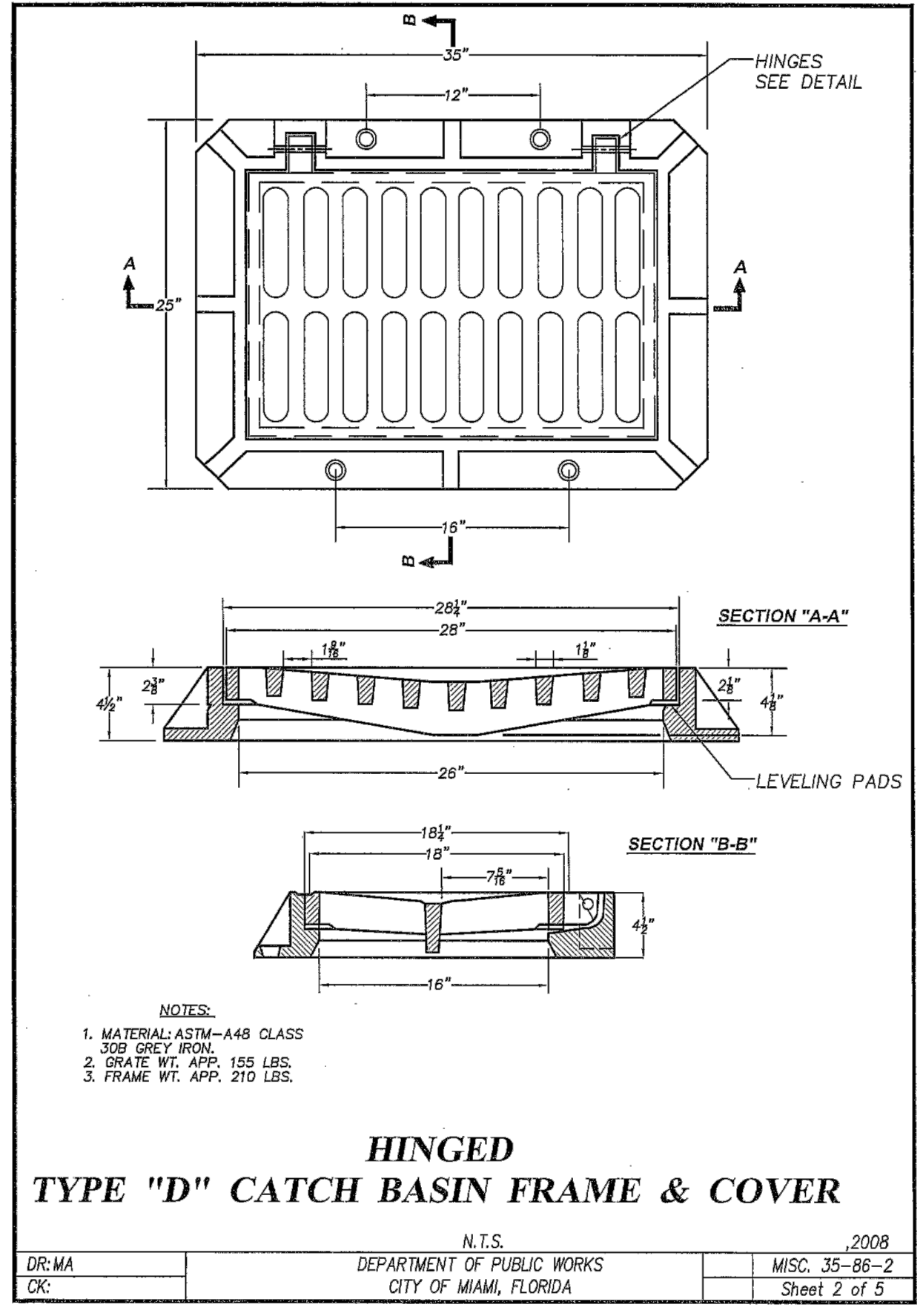
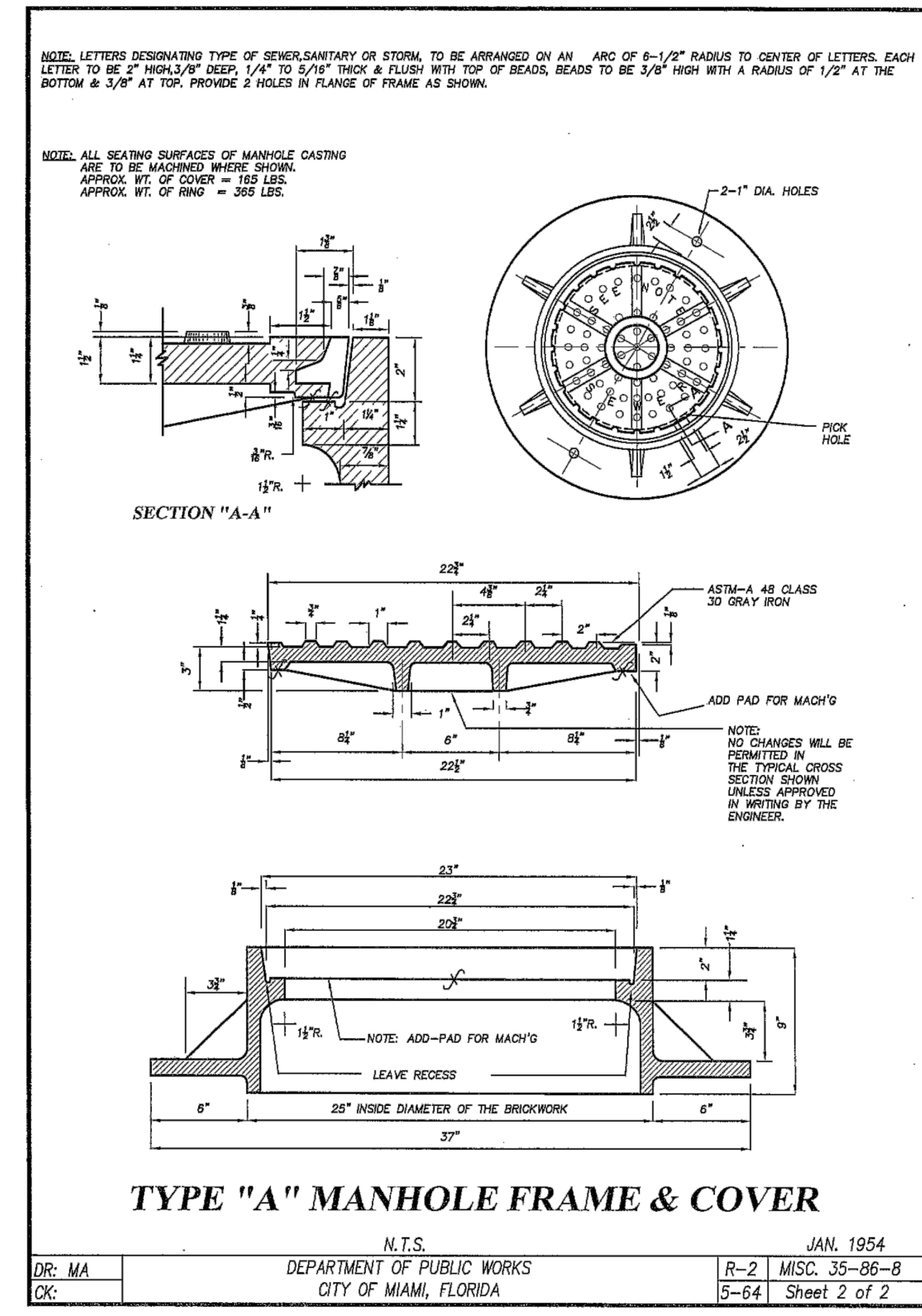
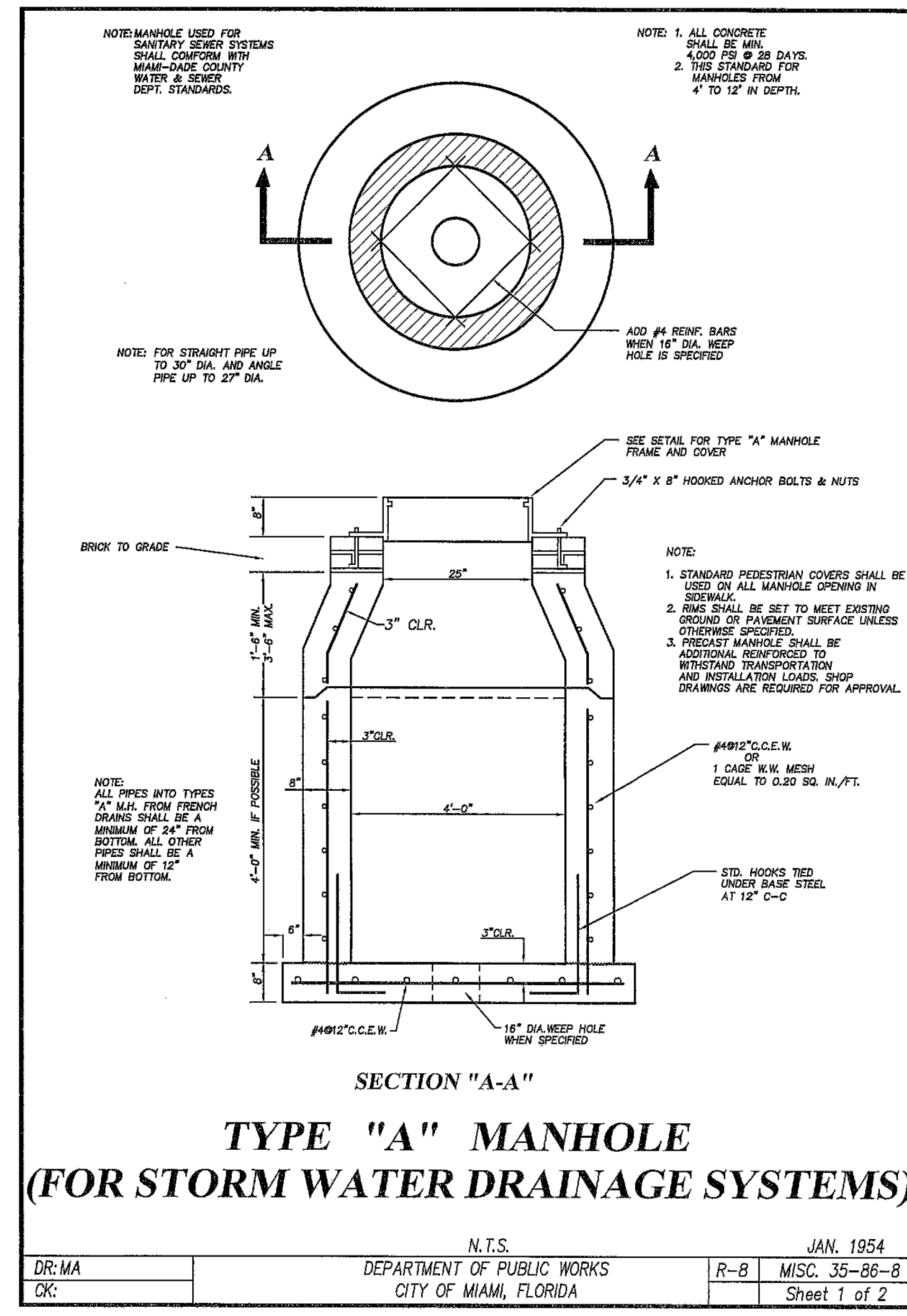
PAVING, GRADING, &
DRAINAGE DETAILS

Revision		
No.	Date	Description

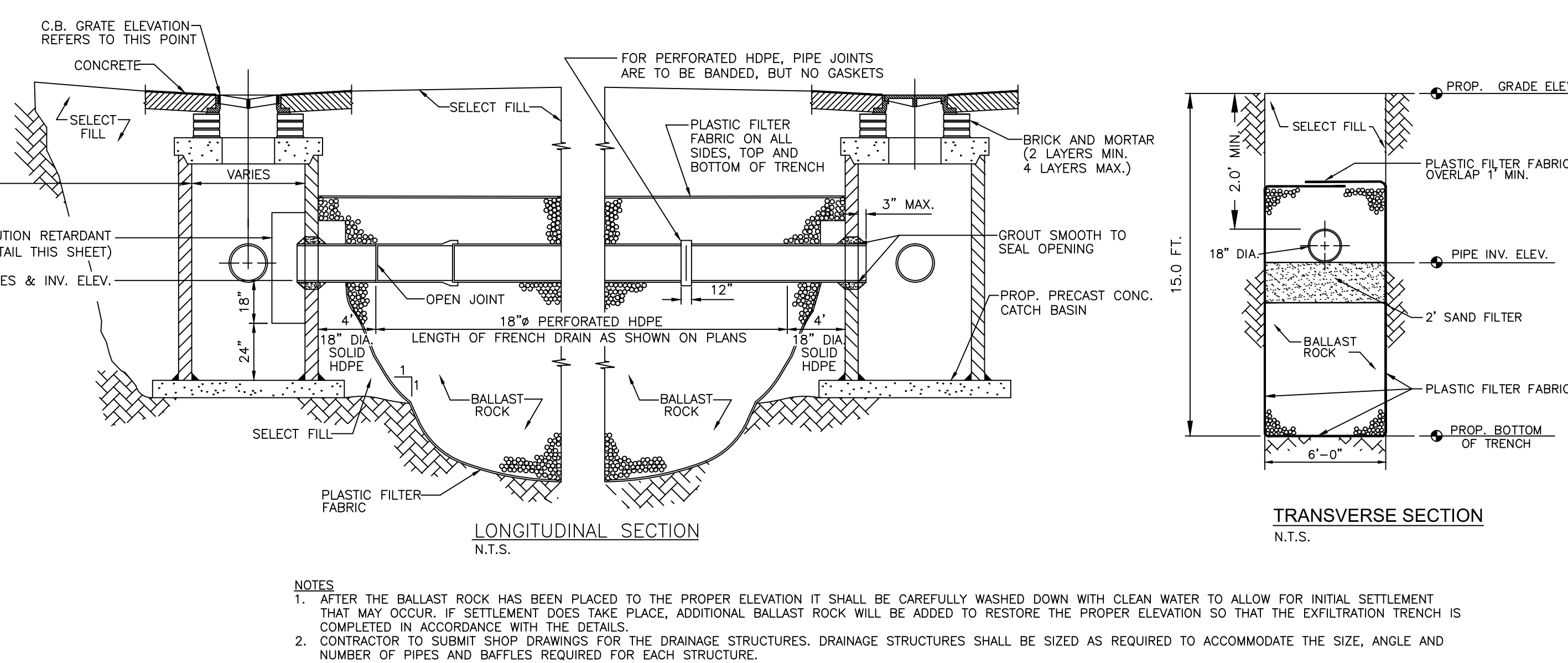
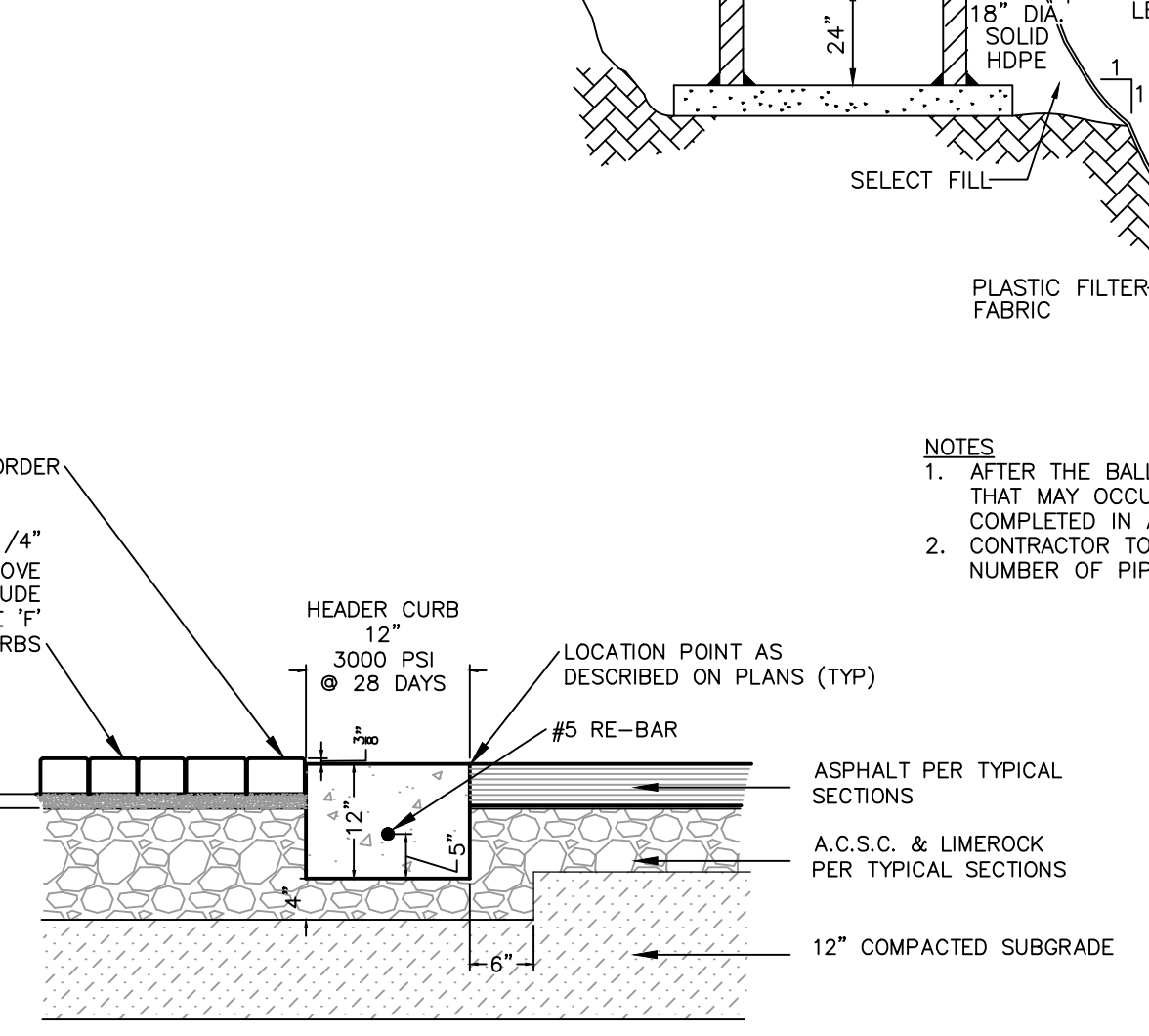
C400.1
PROJECT: 144429018
DATE: 05/03/2018

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May 04, 2018 10:53:30am
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Drawn By: MM
Checked By: CF
Approved By: SV



PIPE DIA. (IN)	W ¹ (IN)	W ² (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES



Plotted By: Levine, Anabella Sheet Set: BHSF-DORAL Layout: C400.2 PGD DETAILS - DORAL K:\VTL_Civil\144_Jobs\144429018-BHSF_Doral\CAD\Planarea\C400.1 PGD DETAILS.dwg



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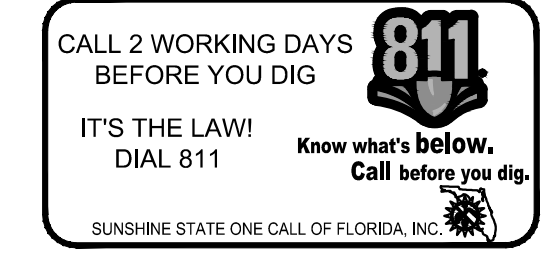
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FLORIDA LICENSE NUMBER
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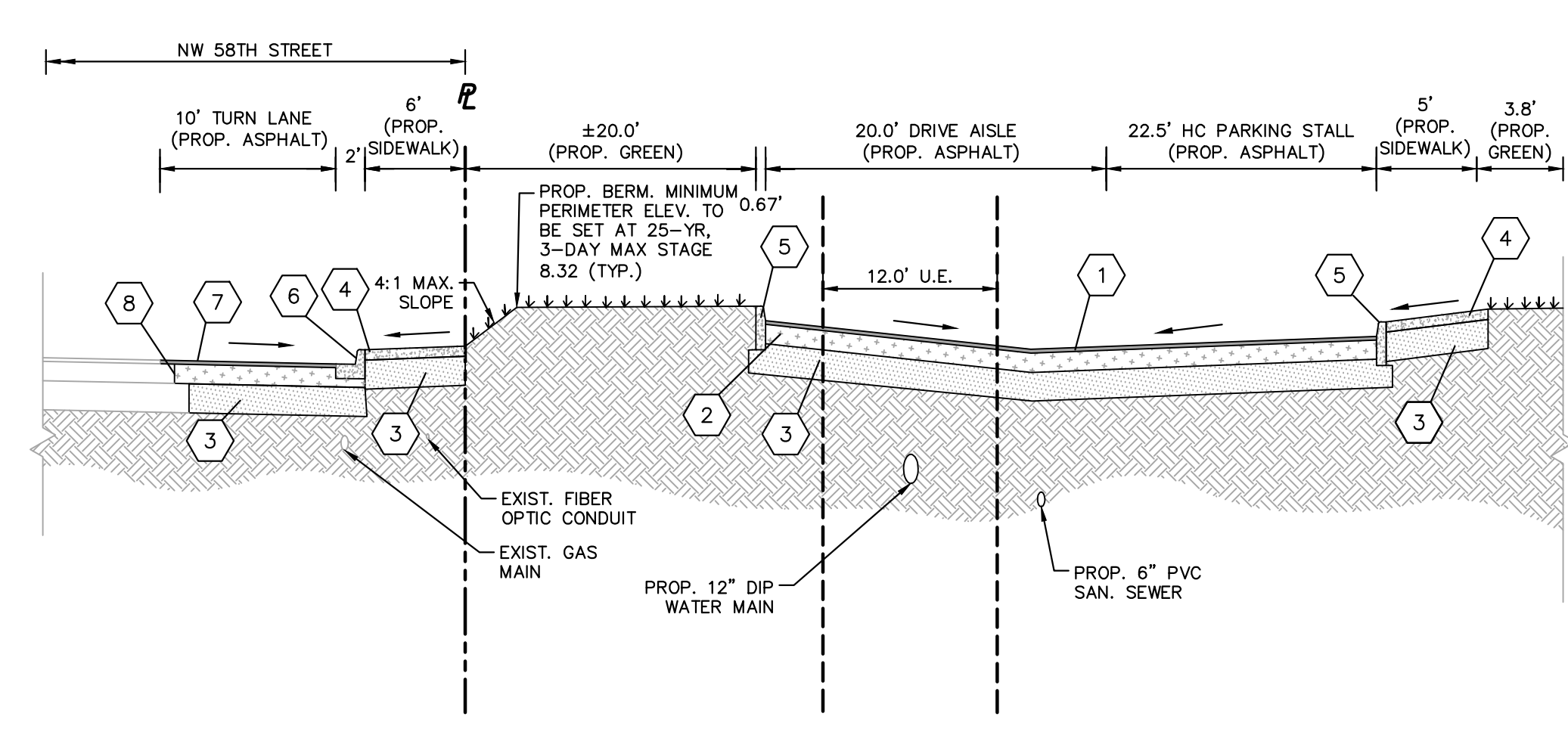
PAVING, GRADING, &
DRAINAGE DETAILS

Revision		
No.	Date	Description

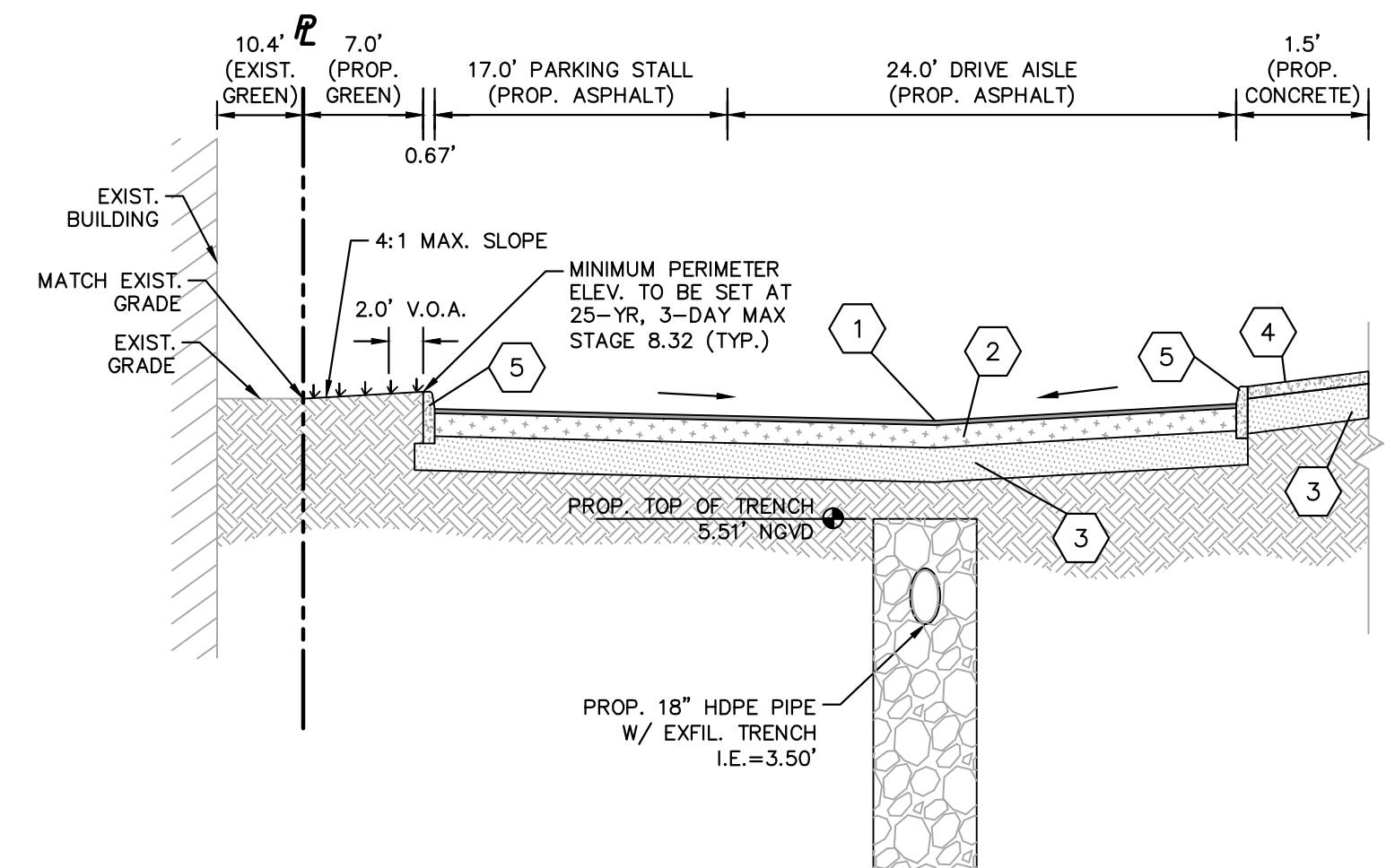


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DATE: 05/03/2018

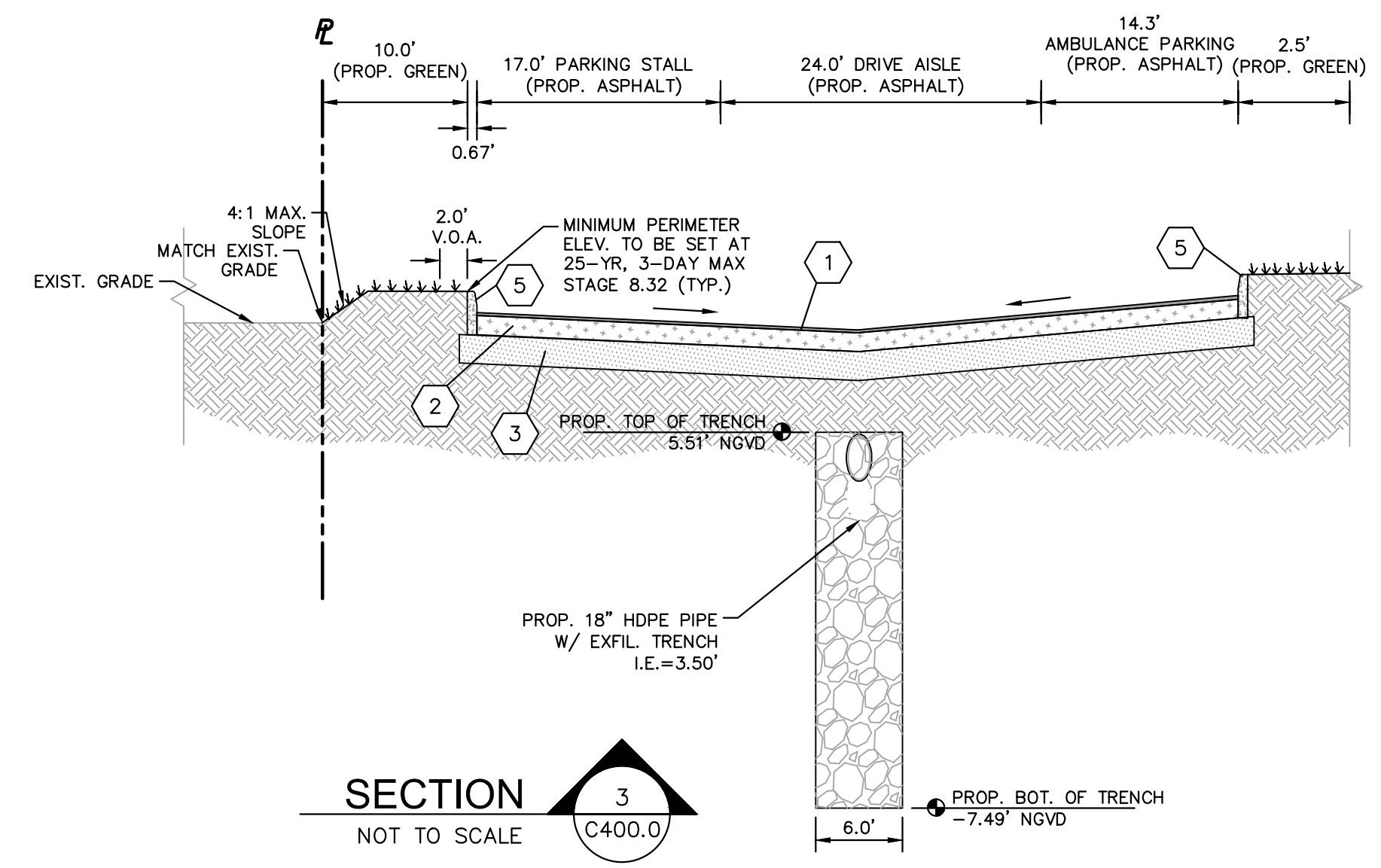
Drawn By: MM
 Checked By: CF
 Approved By: SV



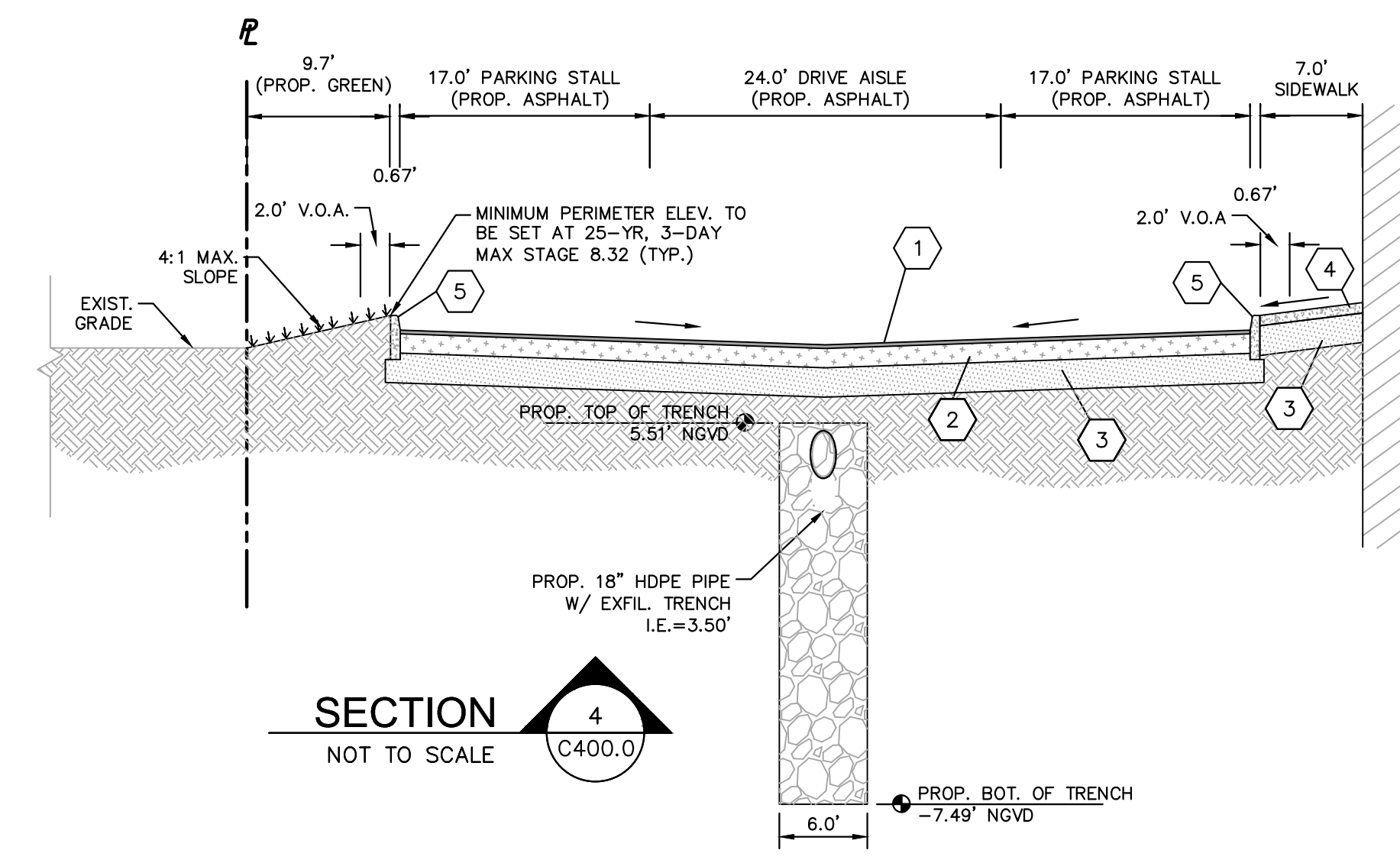
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 C400.0



SECTION 2
 NOT TO SCALE
 C400.0



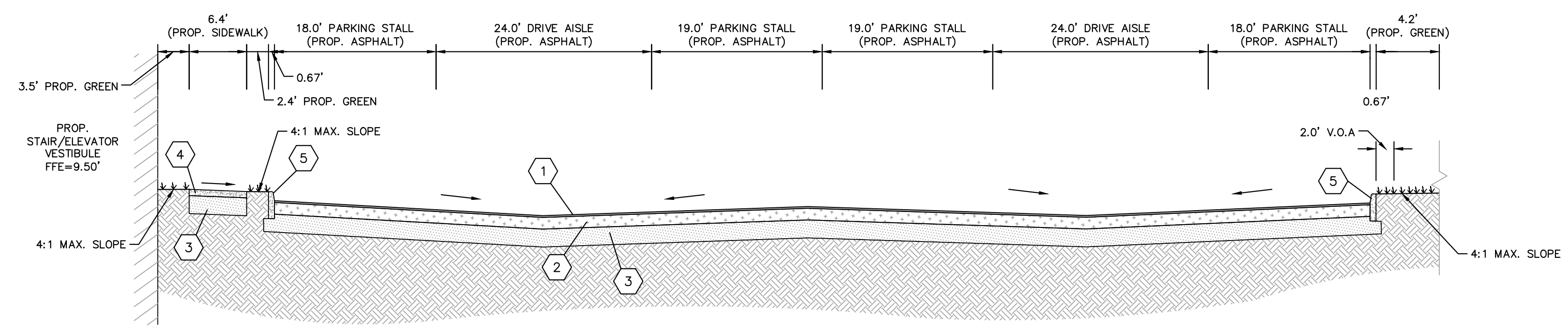
SECTION 3
 NOT TO SCALE
 C400.0



SECTION 4
 NOT TO SCALE
 C400.0

PAVING LEGEND

- 1 1-1/2\" ASPHALT SURFACE TYPE SP-9.5 (2 LIFTS)
- 2 8\" LIMEROCK BASE COMPACTED WITH MINIMUM LBR OF 100 WITH 60% OR MORE CARBONATE CONTENT, COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180.
- 3 12\" STABILIZED SUBGRADE (LBR 40) 95% COMPACTED DENSITY
- 4 4\" THICK CONC. STANDARD SIDEWALK (6\" THICK CONC. FOR SIDEWALKS AT DRIVEWAYS AND IN THE ROW)
- 5 TYPE 'D' CURB PER FDOT INDEX NO. 300.
- 6 TYPE 'F' CURB PER FDOT INDEX NO. 300
- 7 ASPHALT SURFACE AS PER MIAMI-DADE COUNTY STANDARDS
- 8 LIMEROCK BASE AS PER MIAMI-DADE COUNTY STANDARDS



SECTION 5
 NOT TO SCALE
 C400.0

GROUND WATER TABLE ELEVATION = 3.50

ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

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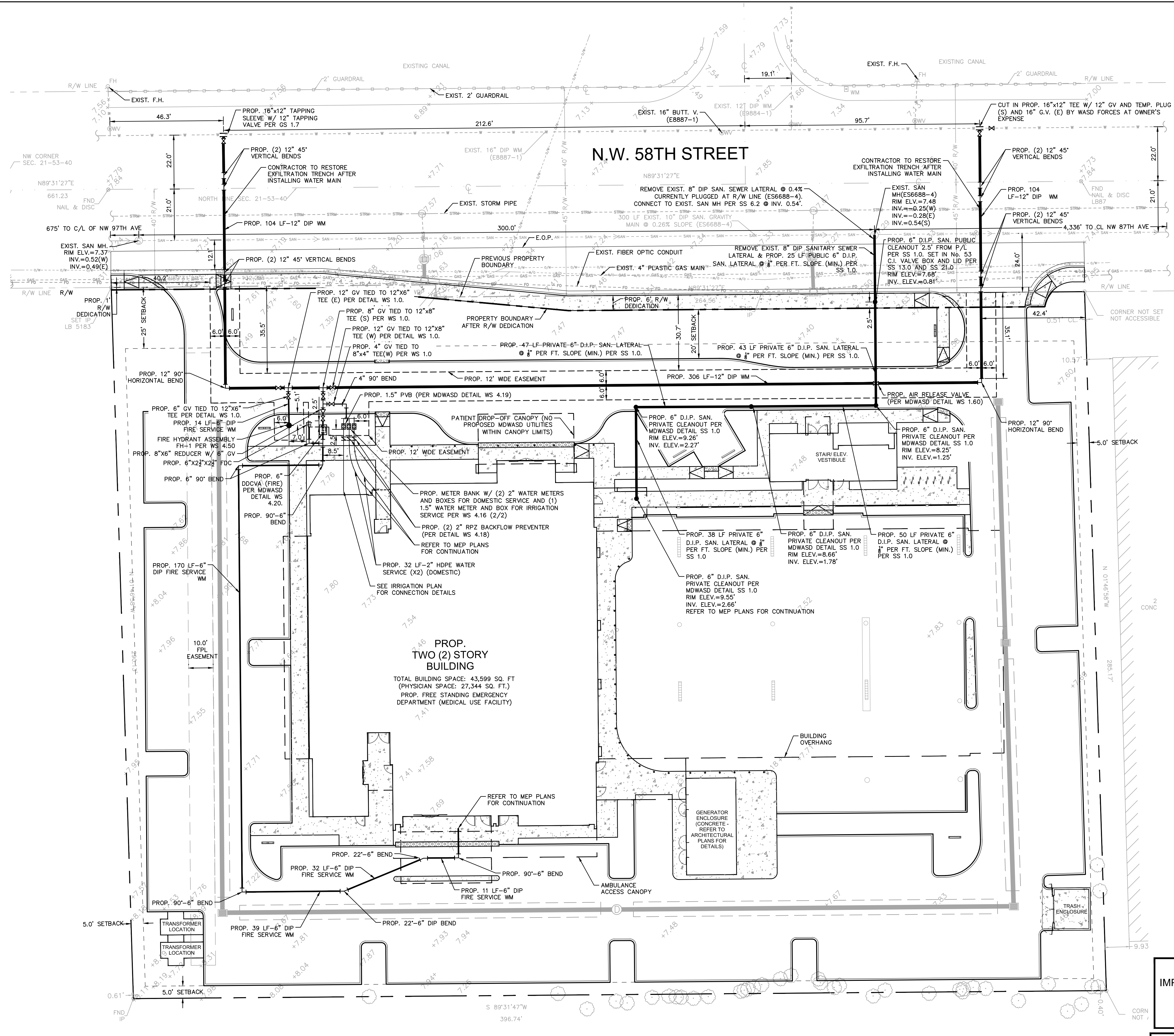
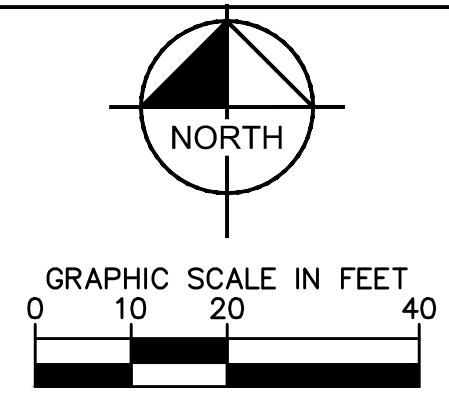
5/4/2018

PAVING, GRADING, &
 DRAINAGE CROSS SECTIONS

Revision		
No.	Date	Description

C400.3
 PROJECT: 144429018
 DATE: 05/03/2018

Drawn By: MM
Checked By: CF
Approved By: SV



LEGEND

- P— PROPERTY LINE
- C— CENTER LINE
- E— EXISTING CATCH BASIN
- S— EXISTING SANITARY SEWER MAIN
- M— EXISTING SANITARY SEWER MANHOLE
- W— EXISTING WATER MAIN
- F— EXISTING FIRE HYDRANT
- L— EXISTING CHAIN LINK FENCE
- O— EXISTING OVERHEAD WIRE
- ST— EXISTING STORMWATER PIPE
- G— EXISTING GAS LINE
- FO— EXISTING FIBER OPTIC LINE
- G— EXISTING GRADE
- H— PROPOSED FIRE HYDRANT ASSEMBLY
- T— PROPOSED TAPPING SLEEVE
- F— PROPOSED FIRE DEPARTMENT CONNECT
- V— PROPOSED WATER VALVE
- M— PROPOSED WATER METER
- R— PROPOSED RPZ
- R— PROPOSED REDUCER
- D— PROPOSED DDCV
- R— 300' FIRE HYDRANT RADIUS
- W— PROPOSED WATER PIPE
- S— PROPOSED SANITARY SEWER CLEAN OUT
- S— PROPOSED SANITARY SEWER PIPE
- M— PROPOSED STORM MANHOLE
- M— PROPOSED STORM CATCH BASIN
- D— PROPOSED DRAINAGE PIPE
- T— PROPOSED EXFILTRATION TRENCH



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WATER & SEWER PLAN

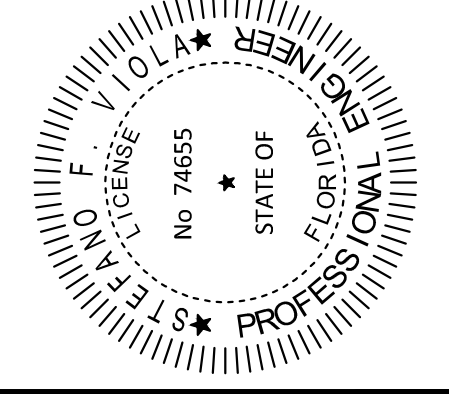
Revision		
No.	Date	Description

MD-WASD
AGREEMENT ID 23629

ALL EXISTING MAINS BEING
IMPACTED BY THIS PROJECT AND
ALL PROP. WATER & FORCE
MAINS & FITTINGS TO BE
RESTRAINED PER GS 2.0

NOTE: NO TREES ALLOWED AT
LESS THAN 6' FACE TO FACE OF
ANY WATER MAIN OR SERVICE.
NO TREES ALLOWED AT LESS
THAN 7.5' FACE TO FACE ON ANY
SEWER MAIN OR SERVICE
LATERAL.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND
SEAL BY STEFANO F. VIOLA, P.E. ON 5/7/2018
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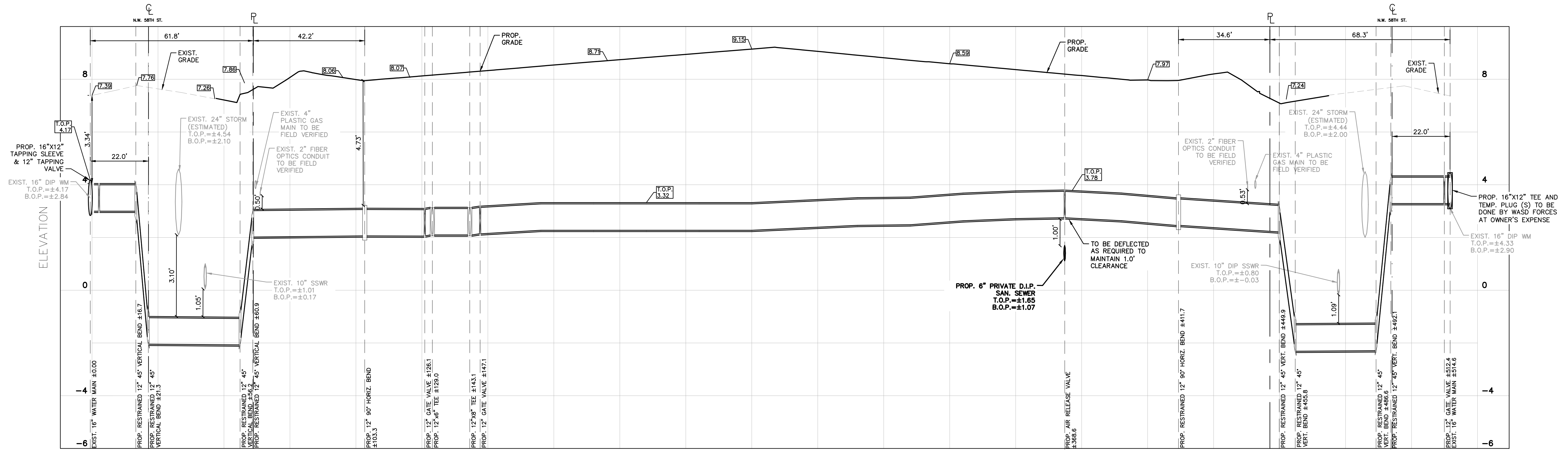
MDWASD WATER/SEWER NOTES:
1. EXISTING (UNUSED) WATER METER/BOX SERVICING THE SUBJECT PROPERTY ARE TO BE REMOVED AND SERVICE LINE TO BE CUT AND PLUGGED AT MAIN BY WASD FORCES AT OWNER'S EXPENSE. SERVICE LINE TO BE ABANDONED IN PLACE.

FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED:
1. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE, ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY MDWASD FORCES AT OWNER'S EXPENSE AS APPLICABLE.
2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

ALL PROPOSED CUTTING & PLUGGING OF ANY EXIST. MDWASD OWNED WM SHALL BE DONE BY MDWASD FORCES, AT OWNER'S EXPENSE AND CLEARLY IDENTIFIED ON THE PLANS AS SUCH. ALL WATER SERVICES TWO (2) INCHES AND BELOW FROM EXIST. MAINS SHALL BE DONE BY MDWASD FORCES, AT OWNER'S EXPENSE.

C500.0
PROJECT: 144429018
DATE: 05/03/2018

Drawn By: MM
 Checked By: CF
 Approved By: SV



NOTE: DISTANCES ASSOCIATED WITH BOTTOM PROFILE LABELS REPRESENT THE VALVE, BEND, OR TEE LOCATION ALONG THE PROPOSED 12\"/>

PROP. WATER MAIN PROFILE (500 LF)
 SCALE: 1"=20' (HORZ.)
 1"=2' (VERT.)

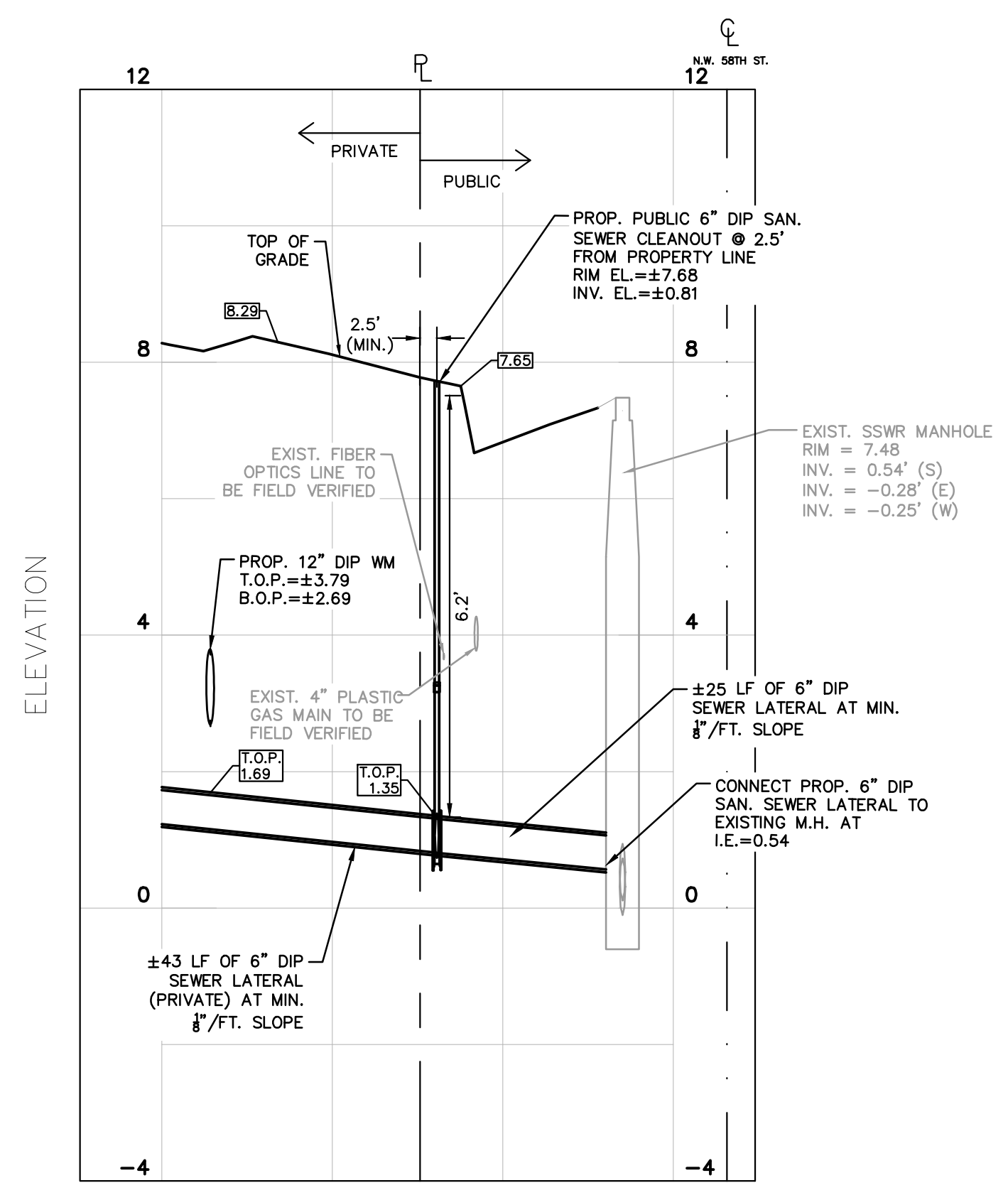
DISCLOSURE RELATED TO CRITICAL HABITAT FOR ENDANGERED SPECIES:

PLEASE BE ADVISED THAT THE FEDERAL GOVERNMENT HAS DESIGNATED ALL OR A PART OF THE SUBJECT PROPERTY AS CRITICAL HABITAT FOR ONE OR MORE ENDANGERED SPECIES.

YOU ARE NOT AUTHORIZED TO COMMENCE ANY WORK OR ACTIVITIES PURSUANT TO THIS PERMIT UNTIL YOU OBTAIN ANY AND ALL APPROVALS OR PERMITS, IF NECESSARY, FROM THE FEDERAL GOVERNMENT PURSUANT TO THE ENDANGERED SPECIES ACT AND FROM THE STATE OF FLORIDA PURSUANT TO FLORIDA LAW ON ENDANGERED SPECIES. PLEASE BE ADVISED THAT, EVEN AFTER WORK COMMENCES, IF MIAMI-DADE COUNTY IS ADVISED BY THE FEDERAL GOVERNMENT, THE STATE OF FLORIDA, OR A COURT THAT AN ACTIVITY ON THE SUBJECT PROPERTY IS IN VIOLATION OF THE ENDANGERED SPECIES ACT, IN VIOLATION OF FLORIDA LAW ON ENDANGERED SPECIES, OR IN VIOLATION OF A PERMIT OR APPROVAL GRANTED BY THE FEDERAL GOVERNMENT PURSUANT TO THE ENDANGERED SPECIES ACT, SUCH VIOLATION MAY RESULT IN AN IMMEDIATE STOP WORK ORDER.

YOU ARE STRONGLY ADVISED TO CONSULT WITH THE UNITED STATES FISH AND WILDLIFE SERVICE AND ANY OTHER NECESSARY FEDERAL OR STATE AGENCIES BEFORE CONDUCTING ANY WORK OR ACTIVITIES ON THE PROPERTY. THE VERO BEACH OFFICE OF THE UNITED STATES FISH AND WILDLIFE SERVICE MAY BE REACHED AT (772) 562-3909. PLEASE BE AWARE THAT THE FEDERAL GOVERNMENT MAY REQUIRE CERTAIN ACTIONS OR PROTECTIONS ON THE PROPERTY, AND THIS MAY RESULT IN THE NEED TO MODIFY THE PLANS FOR THE PROPERTY. THEREFORE, IT IS RECOMMENDED THAT YOU CONSULT WITH THE UNITED STATES FISH AND WILDLIFE SERVICE AT AN EARLY STAGE IN THE PROCESS.

IN THE EVENT THAT THE UNITED STATES FISH AND WILDLIFE SERVICE ADVISES THAT YOUR PLANS FOR THE SUBJECT PROPERTY MAY RESULT IN A "TAKE" OF ENDANGERED OR THREATENED SPECIES, YOU ARE STRONGLY RECOMMENDED TO INFORM MIAMI-DADE COUNTY IN WRITING AT THE EARLIEST STAGE POSSIBLE.



SEWER LATERAL
 SCALE: 1"=20' (HORZ.)
 1"=2' (VERT.)

MD-WASD
 AGREEMENT ID 23629

ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP. WATER & FORCE MAINS & FITTINGS TO BE RESTRAINED PER GS 2.0

NOTE: NO TREES ALLOWED AT LESS THAN 6' FACE TO FACE OF ANY WATER MAIN OR SERVICE. NO TREES ALLOWED AT LESS THAN 7.5' FACE TO FACE ON ANY SEWER MAIN OR SERVICE LATERAL.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY STEFANO F. VIOLA, P.E. ON 5/4/2018 USING A SHA-1 AUTHENTICATION CODE.

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 No. 74655
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

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 FLORIDA LICENSE NUMBER 74655
 5/4/2018

WATER & SEWER PROFILES

Revision		
No.	Date	Description

C500.1
 PROJECT: 144429018
 DATE: 05/03/2018

Drawn By: MM
Checked By: CF
Approved By: SV

**GENERAL NOTES & SPECIFICATION FOR WATER AND SEWER MAIN INSTALLATIONS
(NOT A PART OF MDWASD NOTES NOR APPROVAL)**

1. THE CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PERFORM THE WORK AND MAINTAIN SAFETY TO THE PUBLIC AND WORKERS, AND THE PROTECTION OF PROPERTY THROUGHOUT CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS, AS APPLICABLE. CONTRACTOR MUST COMPLY WITH TRENCH SAFETY ACT.
2. ALL UTILITY CROSSING LINES IDENTIFIED ON PLANS AND PROFILES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY UTILITY INFORMATION WITH APPROPRIATE UTILITIES AND SUNSHINE STATE ONE CALL CENTER OF FLORIDA 811. CONTRACTOR TO INCLUDE ON AS-BUILTS ACCURATE ELEVATION AND LOCATION OF ALL UTILITY CONFLICTS.
3. ALL UTILITIES DAMAGED BY CONSTRUCTION MUST BE PROMPTLY REPAIRED TO THE CONDITION EXISTING PRIOR TO THE DAMAGING OF THE UTILITY. REPAIRS ARE INCIDENTAL TO THE INSTALLATION OF THE MAIN AND EXTENSIONS AND SHALL BE REPAIRED AT NO COST TO THE OWNER.
4. ALL EXISTING MANHOLES, ELECTRIC BOXES, METER BOXES, AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPOSED GRADE.
5. PROPERTY DAMAGE RESULTING FROM WORK REQUIRED BY THIS CONTRACT SHALL BE CLEANED UP, REPAIRED OR REPLACED AT NO COST TO OWNER.
6. CONTRACTOR SHALL PROVIDE ALL MAINS, ALL FITTINGS, ATTACHMENTS, AND EQUIPMENT REQUIRED TO PERFORM TESTING PER WASD STANDARDS. PIPE AND FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH M-DWASD STANDARD DETAIL GS 2.0 (1 THRU 5 OF 5)
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL INSTALLATIONS.
8. ALL TRENCHES TO BE OVER-EXCAVATED A MINIMUM OF 6" TO PROVIDE FOR INSTALLATION OF ROCK BEDDING IN ACCORDANCE WITH M-DWASD STANDARDS.
9. SURFACE RESTORATION, PAVEMENT AND SIDEWALK REPLACEMENT, TRENCH BACKFILLING AND COMPACTION SHALL COMPLY WITH M-DWASD STANDARD DETAILS GS1.9, SS18.0, A1.0, A1.1 AND A4.0, M-DCPDW STANDARD DETAIL R21.1, THE APPLICABLE CITY OF DORAL PUBLIC WORKS, M-DCPDW, AND FDOT STANDARDS.
10. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER LATERALS PRIOR TO THE CONSTRUCTION OF THE SANITARY SEWER CONNECTIONS. CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE SEWER CONNECTION AND PROVIDE THE REQUIRED FITTINGS AND CLEANOUTS AS NEEDED. ALL MODIFICATIONS TO ALIGNMENT SHALL BE CLEARLY RECORDED IN THE AS-BUILT DOCUMENTS.
11. THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS THAT WERE NOT ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
12. THE PERMITTEE WILL ENSURE THAT NO UNSAFE AREA(S) FOR PEDESTRIAN WILL REMAIN DURING ANY TIME OF CONSTRUCTION. PEDESTRIAN CONTROL FOR CLOSURE OF ROADS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX SERIES 600.
13. ACCESS TO REMAIN OPEN AT ALL TIMES. THE PERMITTEE SHALL PROVIDE AND MAINTAIN SAFE TEMPORARY ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES AND SHALL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC WITHIN THE CONSTRUCTION ZONE. NO ROAD OR STREET CROSSING SHALL BE BLOCKED OR UNUSUALLY RESTRICTED AS DETERMINED BY THE ENGINEER.
14. FOR SEWER CONNECTIONS TO V.C.P., THE CONTRACTOR SHALL TELEWISE THE V.C.P. PIPE BEFORE AND AFTER INSTALLATION.
15. ANY EXISTING PUBLIC WATER SERVICE WITHIN THE PROPERTY IN CONFLICT WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY ASSOCIATED EASEMENT IS CLOSED AND RELEASED (AS APPLICABLE).

MIAMI-DADE COUNTY RER-DERM WATER-SEWER GENERAL NOTES

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 top 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 one of the following is met:
 - 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 one of the following is met:
 - 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 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.
 - 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. Forcemain 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 forcemain 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.
11. Pumps must comply with the National Electrical Code (NEC) requirements for Class I, Group D, Division 1 locations (Explosion Proof).

Rev. 5/25/2017
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NOT A PART OF MDWASD NOTES OR APPROVAL

**REQUIREMENTS PER DEPARTMENT OF HEALTH
(NOT A PART OF MDWASD 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. BETWEEN GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER, PREFERABLY 10 FT. AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.
5. BETWEEN ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEMS SHALL BE 10 FT. MINIMUM.

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.*
7. BETWEEN PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

* NOTE: CENTER ONE (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.

NOT A PART OF MDWASD NOTES OR APPROVAL

**REQUIREMENTS PER DEPARTMENT OF HEALTH
(NOT A PART OF MDWASD NOTES NOR APPROVAL)**

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS.
2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.
3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY.
5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
7. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
8. CONTRACTOR MUST CALL MDWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
 - a. EASEMENTS, IF REQUIRED
 - b. CONTRACTOR'S WAIVER AND RELEASE OF LIEN
 - c. ABSOLUTE BILL OF SALE
 - d. I. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT)
ii. DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT).
 - e. "RECORD DRAWING" PRINTS (24" x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (NO. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of final CAD files required.
 - f. H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS
 - g. BILL OF SALE SKETCH (8 1/2" x 11") FOR WATER AND SEWER, SEPARATELY
11. ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.
12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR.

MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS	CROSS REF.	SPEC. REF.
	03/01/2010	V.F.C.	STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION	0.5		
	07/20/2016	D.V.				

FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED

1. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED IN SERVICE, ACCEPTED BY DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY MDWASD FORCES AT OWNER'S EXPENSE AS APPLICABLE.
2. ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

WATER NOTES (NOT PART OF MDWASD NOTES OR APPROVAL):

1. CONTRACTOR SHALL PERFORM WATER QUALITY SAMPLES PRIOR TO CONSTRUCTION. VITON O-RING GASKETS SHALL BE PROVIDED WITHIN ALL LIMITS OF IDENTIFIED CONTAMINATION NOT SPECIFICALLY NOTED ON PLANS.
2. CONTRACTOR TO FIELD ADJUST ALL EXISTING VALVE BOXES AND LID ELEVATIONS TO MATCH PROPOSED GRADE ELEVATIONS.
3. ALL PROPOSED UTILITY REMOVALS AND RELOCATIONS DONE BY CONTRACTOR OR BY OTHERS ARE REQUIRED PRIOR TO PROPOSED WM CONSTRUCTION. CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY OWNERS PRIOR TO CONSTRUCTION.
4. PAVEMENT RESTORATION FOR ROADWAY INTERSECTIONS AND FOR TRENCH CUTS SHALL BE IN ACCORDANCE WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARD DETAIL R21.1 AND FDOT LATEST DESIGN STANDARDS FOR STATE ROADS.

SEWER NOTES (NOT PART OF MDWASD NOTES OR APPROVAL):

5. SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED AT ANY TIME. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PREPARE AND OBTAIN WRITTEN APPROVAL FROM MDWASD FOR A TEMPORARY SEWAGE BY-PASS SYSTEM THAT WILL MAINTAIN SANITARY SERVICE DURING CONSTRUCTION. NO EXISTING SANITARY MAINS OR LATERALS SHALL BE CUT, PLUGGED OR REMOVED PRIOR TO THE APPROVED BY-PASS BEING OPERATIONAL. THE BY-PASS SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SANITARY SEWER MAINS ARE PLACED INTO SERVICE AND ALL EXISTING MAINS AND SERVICES ARE RECONNECTED TO THE PROPOSED MAINS.
6. CONTRACTOR SHALL FIELD VERIFY EXISTING LATERALS TO DETERMINE EXISTING LOCATION, SIZE, MATERIAL AND OPERATIONAL STATUS (ACTIVE/INACTIVE).
7. CONTRACTOR TO ADJUST ALL EXIST. MANHOLE AND CLEAN OUT RIM ELEVATIONS TO MATCH PROPOSED GRADE ELEVATIONS. REFER TO MDWASD DETAIL A 8.0.
8. PAVEMENT RESTORATION FOR ROADWAY INTERSECTIONS AND FOR TRENCH CUTS SHALL BE IN ACCORDANCE WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARD DETAIL R21.2 AND/OR FDOT STANDARDS.
9. ALL MODIFICATIONS, REMOVAL, AND RELOCATIONS OF EXIST. UTILITIES SHALL BE COORDINATED WITH THE UTILITY OWNER PRIOR TO CONSTRUCTION.
10. CONTRACTOR TO FIELD VERIFY SANITARY SEWER MAIN CONDITION BEFORE CONNECTING. IF SANITARY SEWER MAIN IS IN BAD CONDITION THE CONTRACTOR SHALL CONTACT MDWASD AND THE ENGINEER OF RECORD.

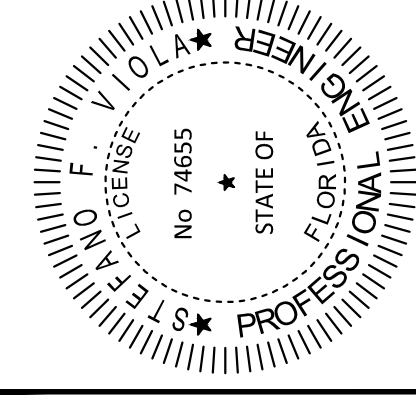
**REQUIREMENTS PER DEPARTMENT OF HEALTH
(NOT A PART OF MDWASD NOTES NOR APPROVAL)**

1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL SUBMIT:
 - a. RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
2. "RECORD DRAWING" FORMAT:
 - a. 24" x 36" PRINTS
 - b. PDF FILE
 - c. CAD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST ZONE
 - d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
 - e. TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION
 - f. PREFERRED SCALE TO BE 1"= 40' HORIZONTALLY AND 1"= 4' VERTICALLY*
 - g. STREET NOMENCLATURE
 - h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
 - i. SEPARATE WATER AND SEWER PROFILE
 - j. STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E. C, S, ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN
 - k. EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT
 - l. IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)
 - m. ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
3. WATER "RECORD DRAWINGS" MUST INCLUDE:
 - a. PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
 - b. PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLAN.
4. SEWER "RECORD DRAWINGS" MUST INCLUDE:
 - a. PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.
 - b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON ALL RECORD DRAWING SUBMITTALS
 - c. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE INVERT, LABEL NORTH, SOUTH, ETC.), AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE.
5. FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.
6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.

MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS	CROSS REF.	SPEC. REF.
	03/11/2009	V.F.C.	"RECORD DRAWING" REQUIREMENTS	0.5		
	07/20/2016	D.V.				

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY STEFANO F. VIOLA, P.E. ON 5/4/2018 USING A SHA-1 AUTHENTICATION CODE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP. WATER & FORCE MAINS & FITTINGS TO BE RESTRAINED PER GS 2.0

MD-WASD AGREEMENT ID 23629

CALL 2 WORKING DAYS BEFORE YOU DIG 811
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Know what's below. Call before you dig.
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Two Alhambra Plaza Suite 1200 Coral Gables, Florida 33134 786.532.2100
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Baptist Health Emergency Center Doral

9500 - 9540 NW 58th Street Doral FL 33178

LICENSED PROFESSIONAL

STEFANO F. VIOLA, P.E.

FLORIDA LICENSE NUMBER 74655

5/4/2018

WATER & SEWER DETAILS

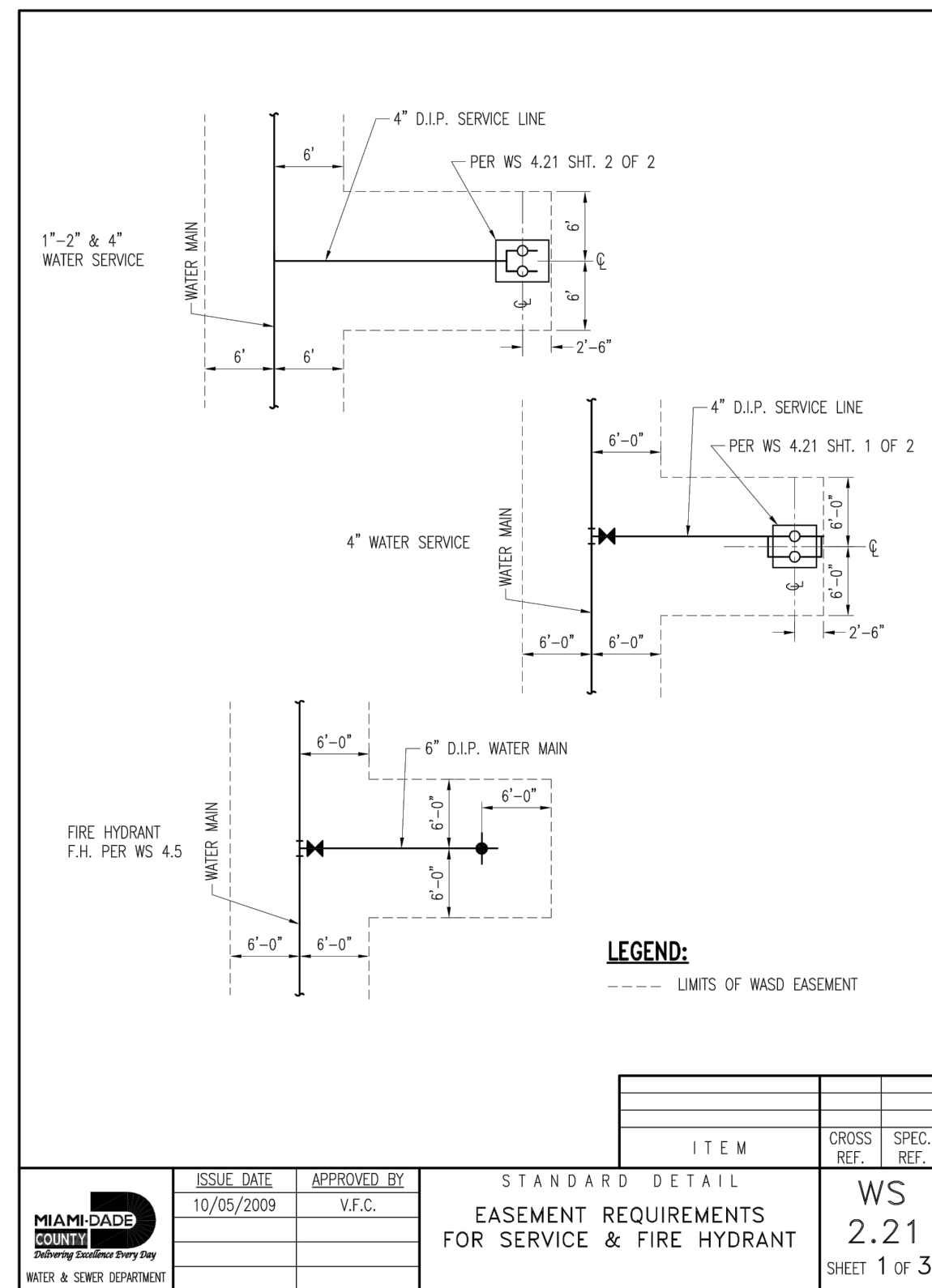
Revision		
No.	Date	Description

C500.2

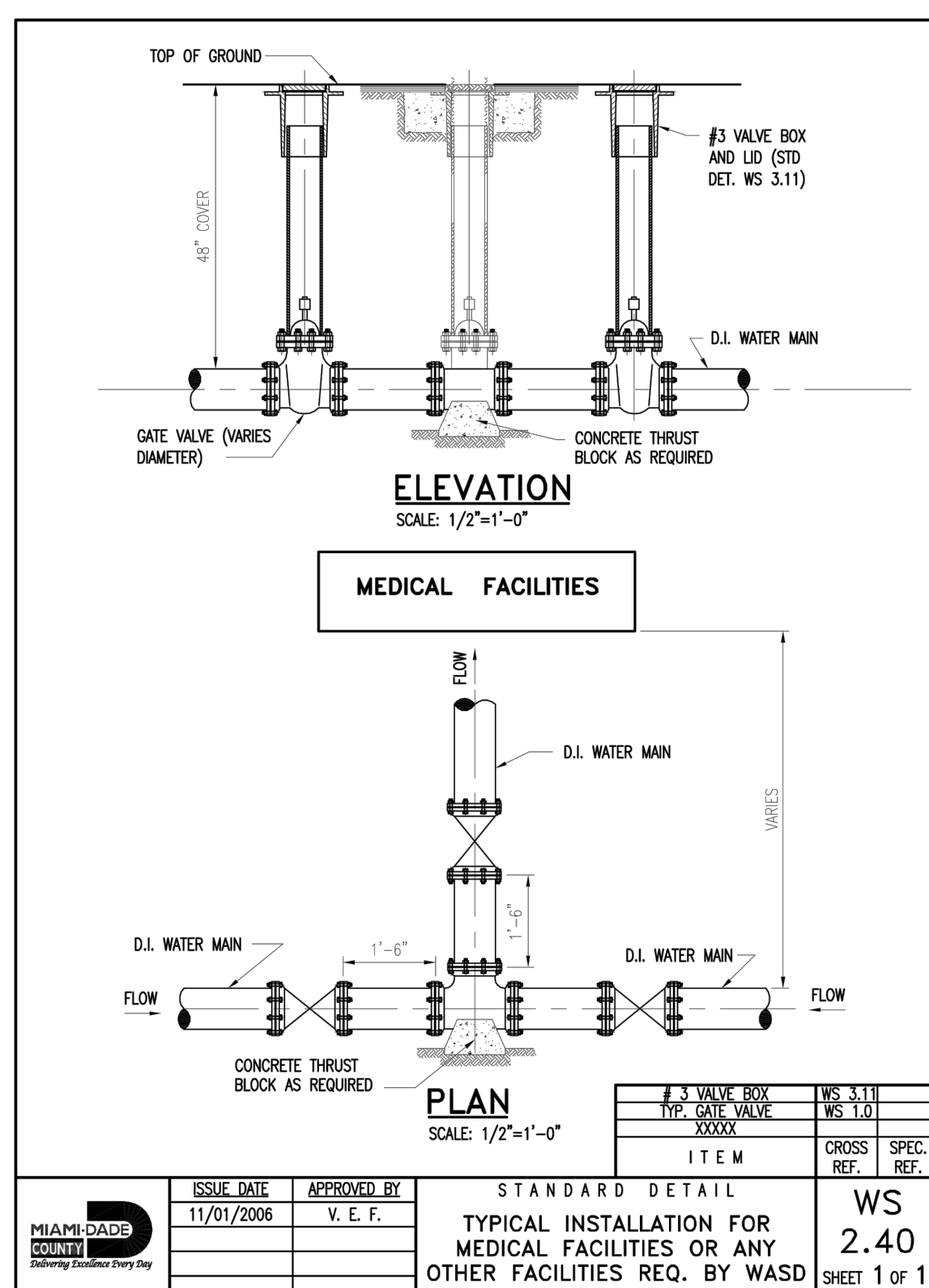
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DATE: 05/03/2018

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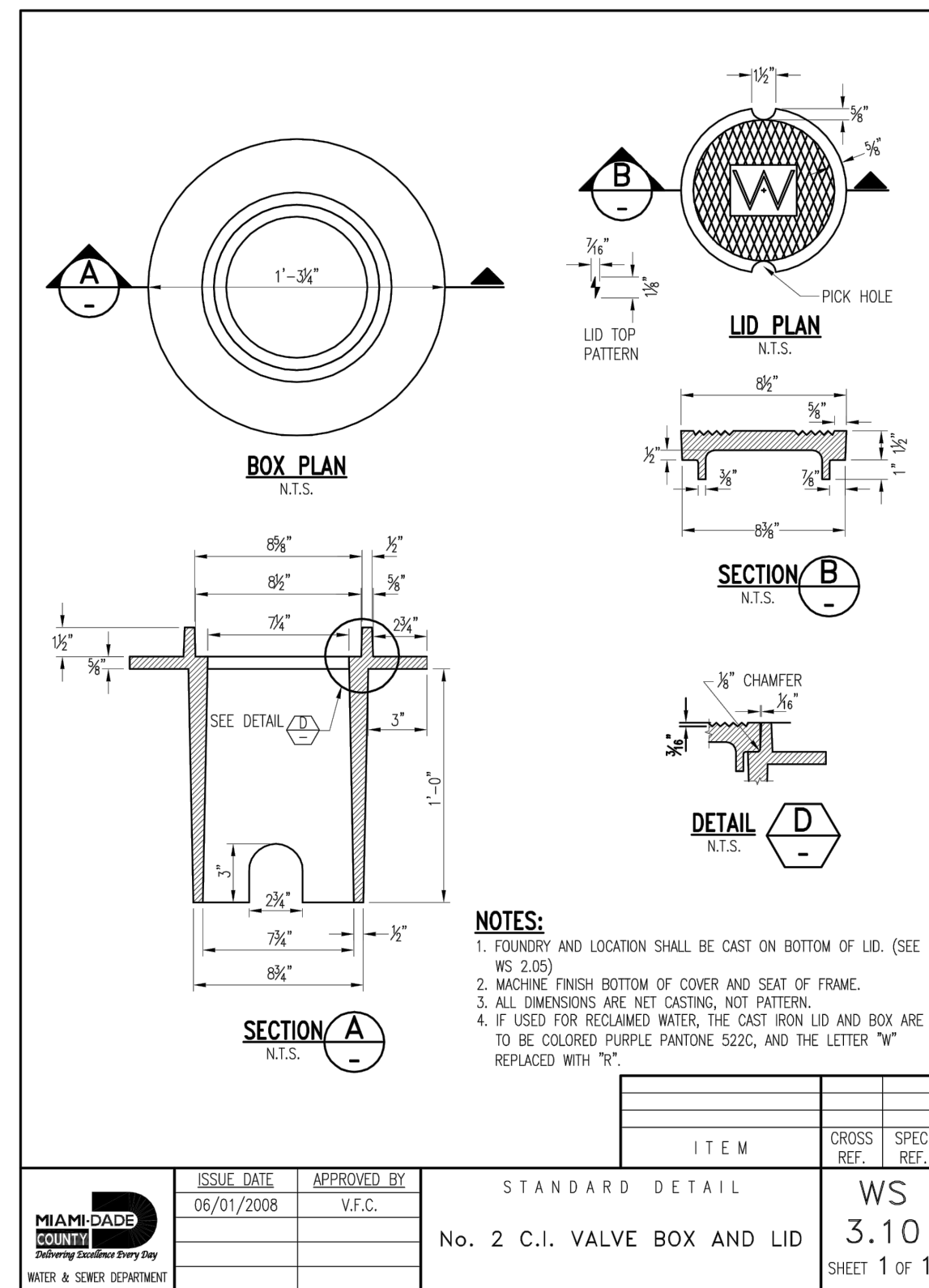
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Approved By: SV



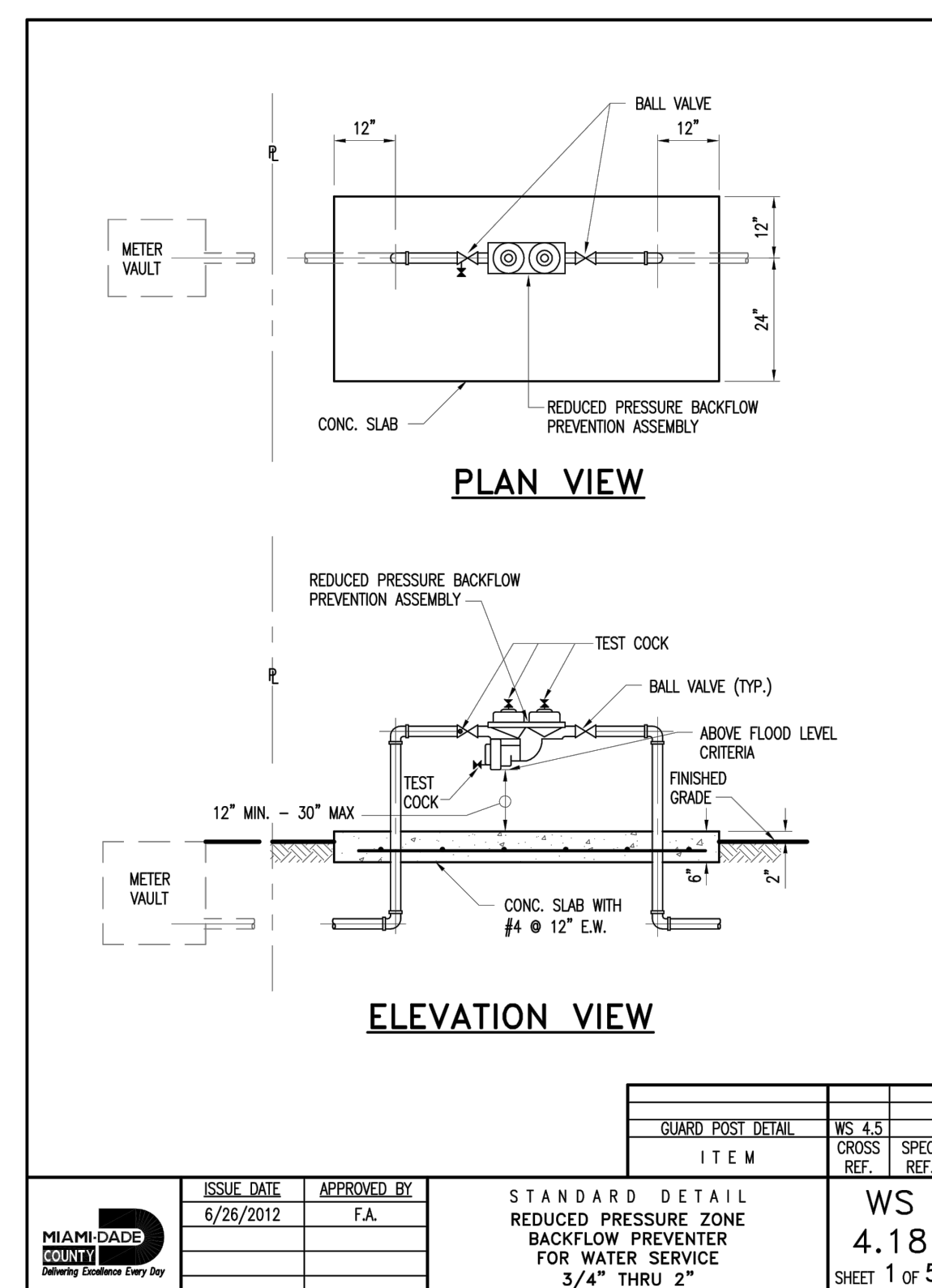
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	10/05/2009	V.F.C.	EASEMENT REQUIREMENTS FOR SERVICE & FIRE HYDRANT	2.21
				SHEET 1 OF 3



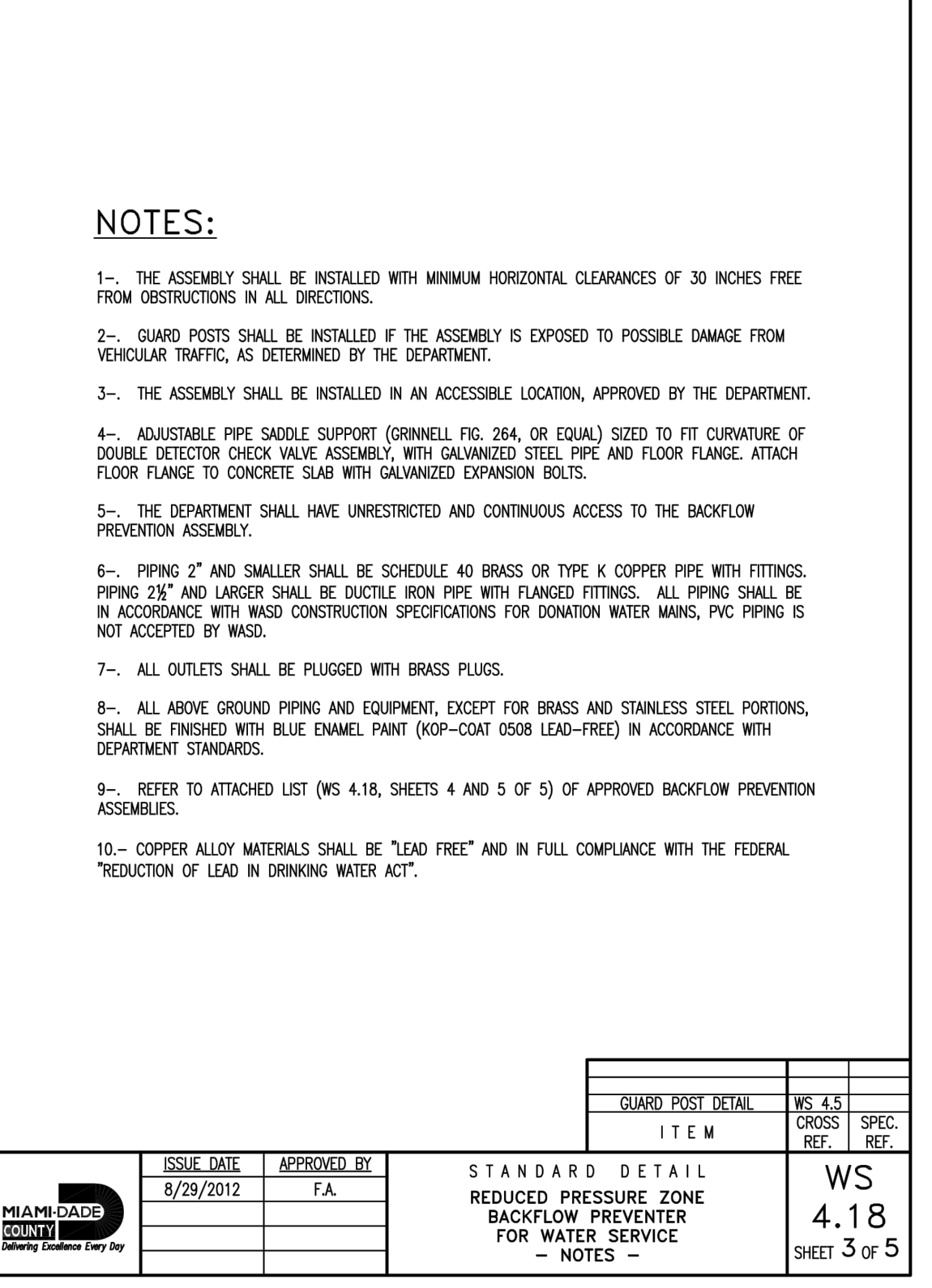
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	11/01/2006	V.E.F.	TYPICAL INSTALLATION FOR MEDICAL FACILITIES OR ANY OTHER FACILITIES REQ. BY WASD	2.40
				SHEET 1 OF 1



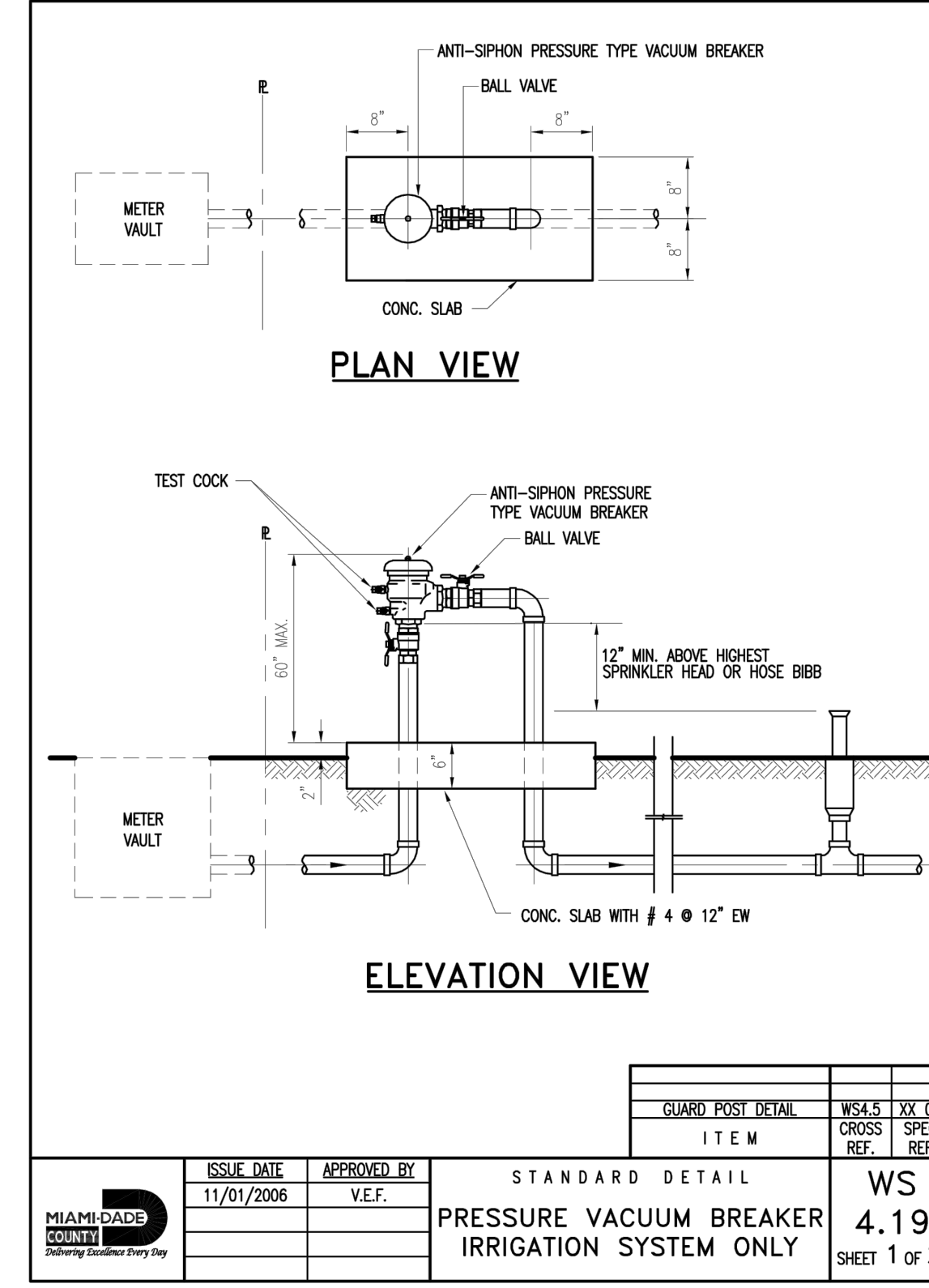
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	06/01/2008	V.F.C.	No. 2 C.I. VALVE BOX AND LID	3.10
				SHEET 1 OF 1



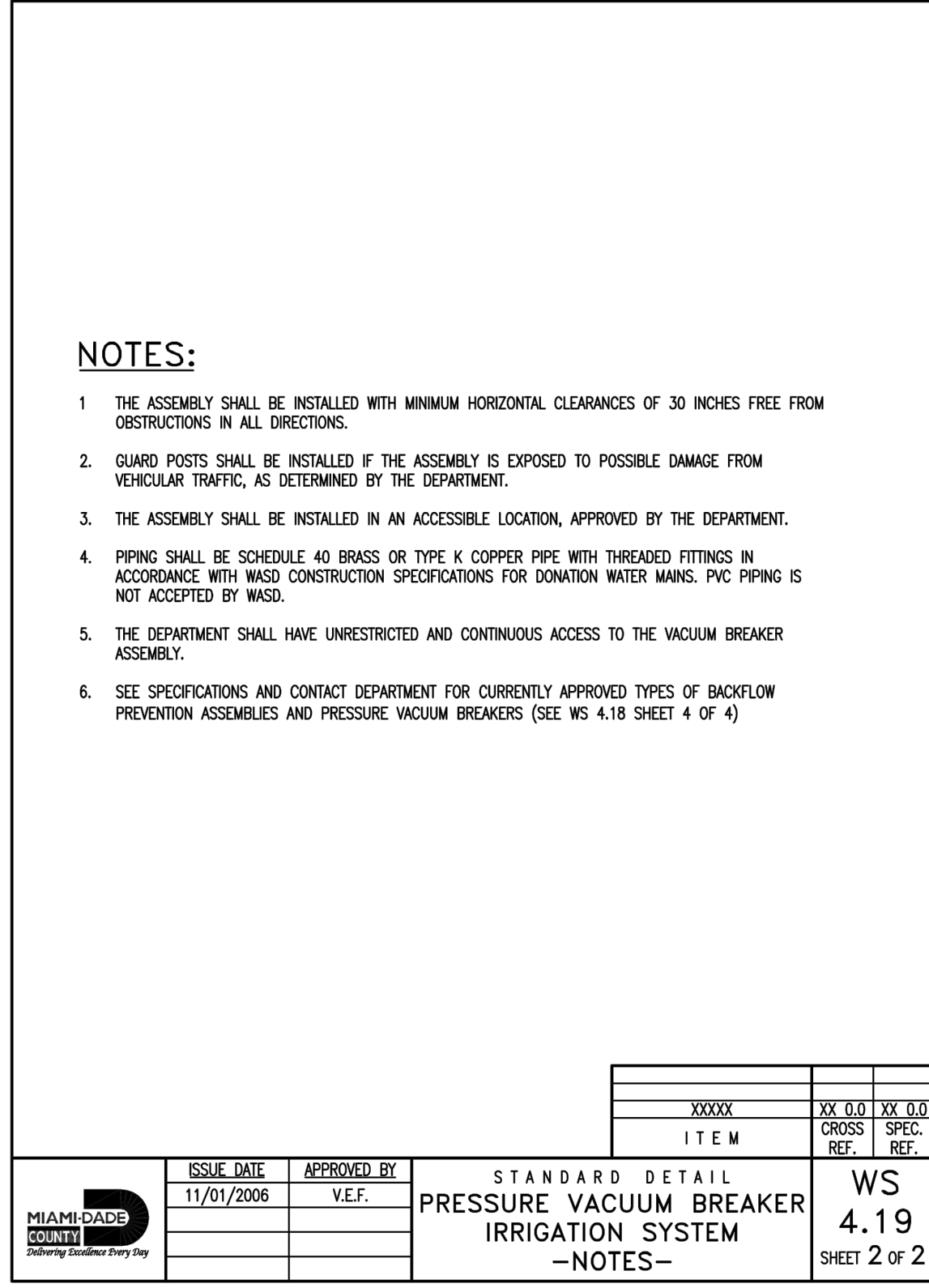
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	6/26/2012	F.A.	REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE 3/4\"/>	
				SHEET 1 OF 5



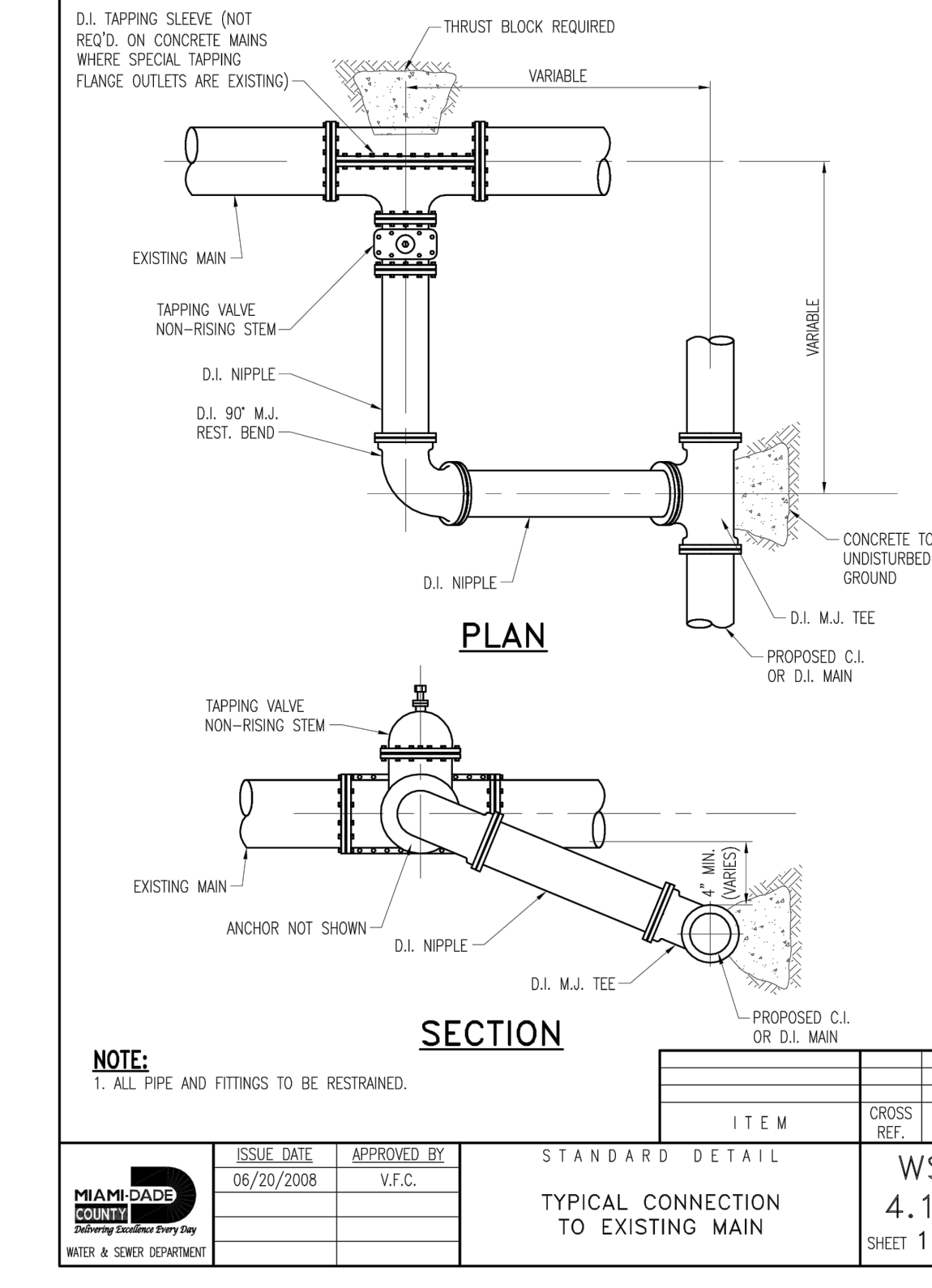
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	8/29/2012	F.A.	REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE	4.18
				SHEET 3 OF 5



MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	11/01/2006	V.E.F.	PRESSURE VACUUM BREAKER IRRIGATION SYSTEM ONLY	4.19
				SHEET 1 OF 2



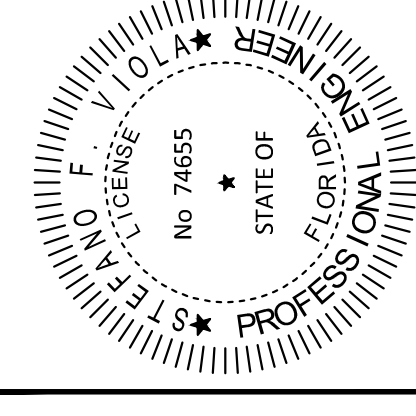
MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	11/01/2006	V.E.F.	PRESSURE VACUUM BREAKER IRRIGATION SYSTEM	4.19
				SHEET 2 OF 2



MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
Water & Sewer Department	06/20/2008	V.F.C.	TYPICAL CONNECTION TO EXISTING MAIN	4.12
				SHEET 1 OF 2

- NOTES:**
- THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
 - GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
 - THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
 - 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.
 - THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.
 - PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS. ALL PIPING SHALL BE IN ACCORDANCE WITH WASD CONSTRUCTION SPECIFICATIONS FOR DONATION WATER MAINS. PVC PIPING IS NOT ACCEPTED BY WASD.
 - ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.
 - ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH BLUE ENAMEL PAINT (XOP-COAT 0508 LEAD-FREE) IN ACCORDANCE WITH DEPARTMENT STANDARDS.
 - REFER TO ATTACHED LIST (WS 4.18, SHEETS 4 AND 5 OF 5) OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
 - COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT".

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Doral FL 33178

LICENSED PROFESSIONAL
STEFANO F. VIOLA, P.E.
FLORIDA LICENSE NUMBER 74655
5/4/2018

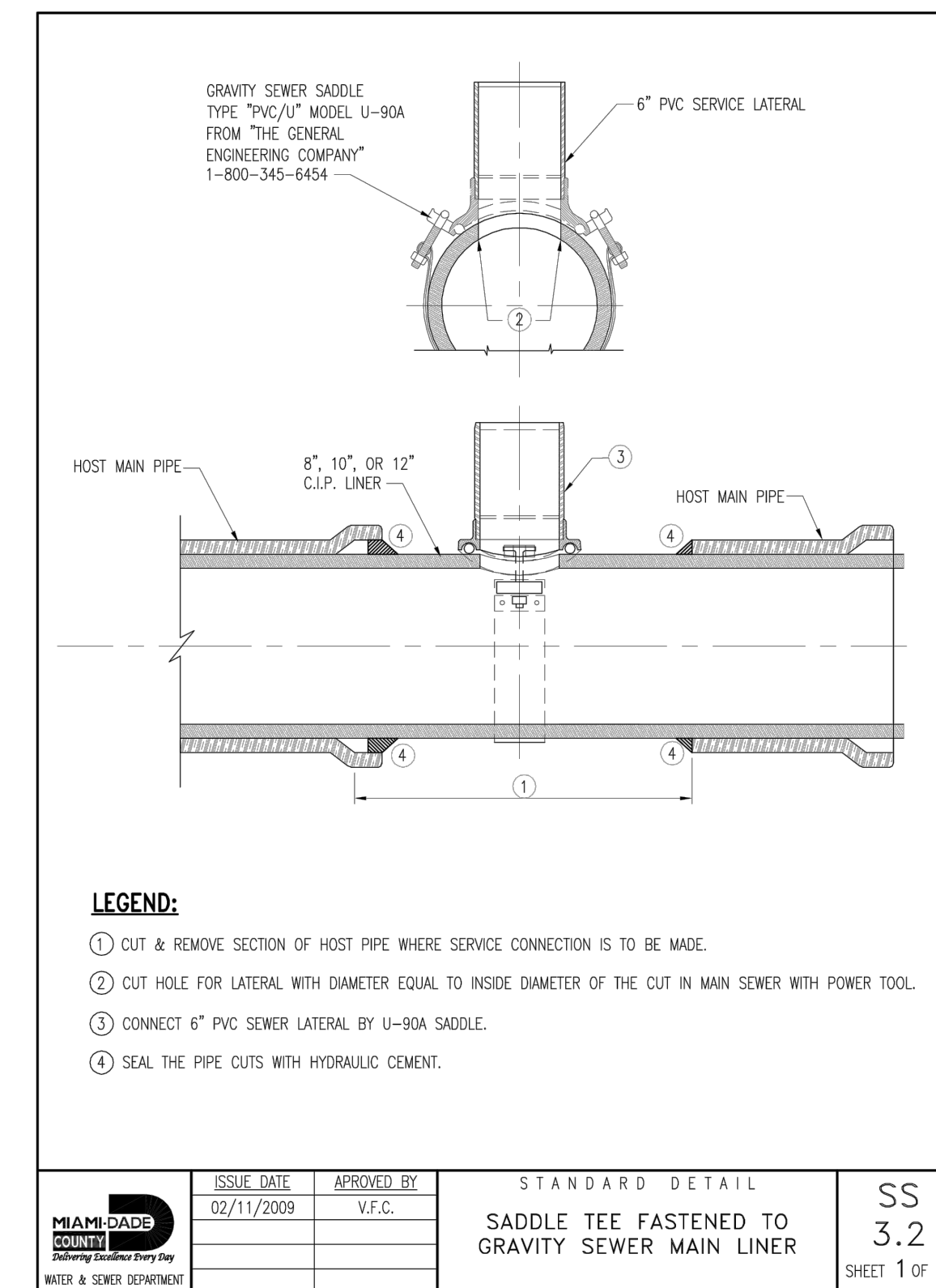
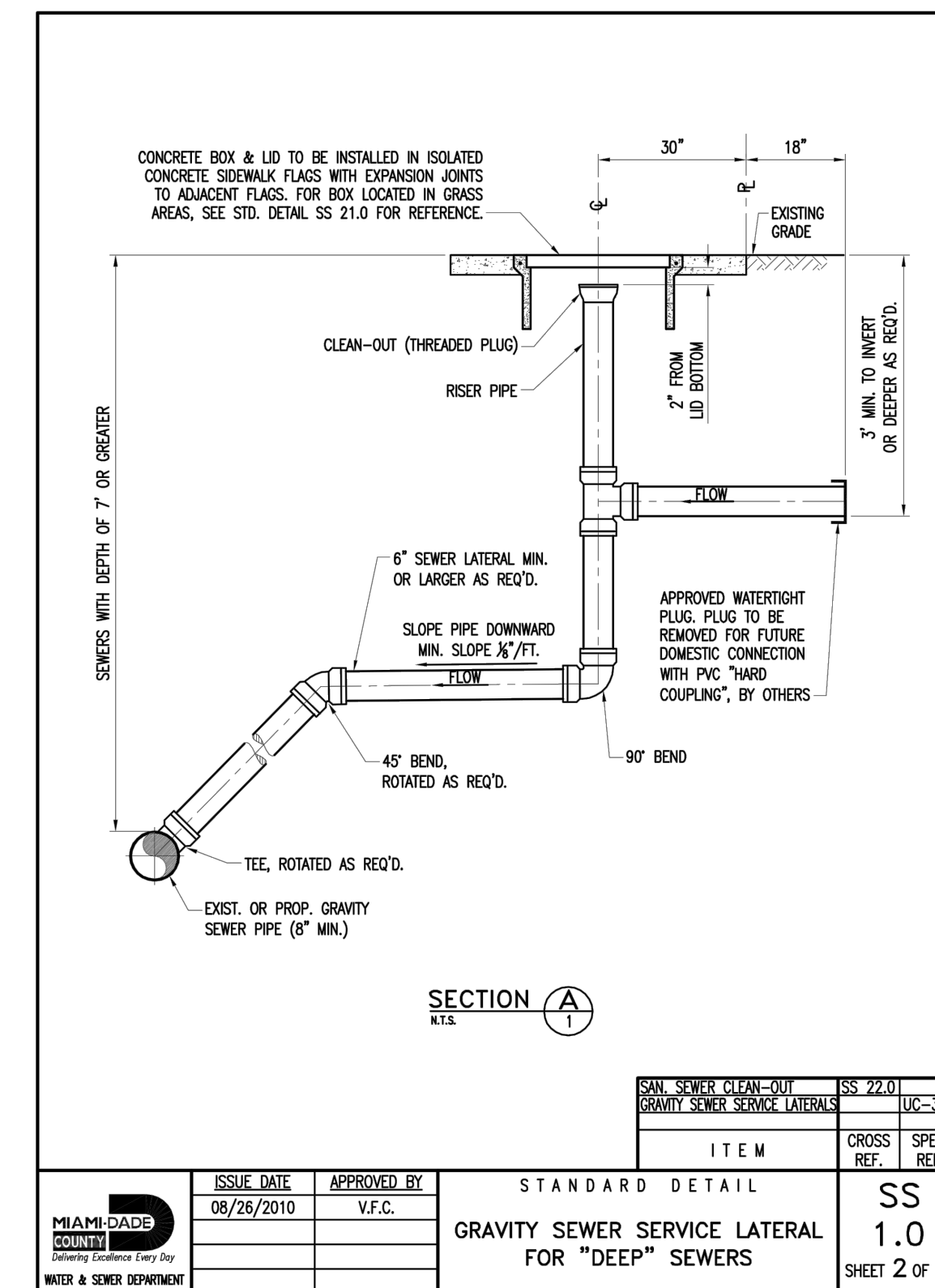
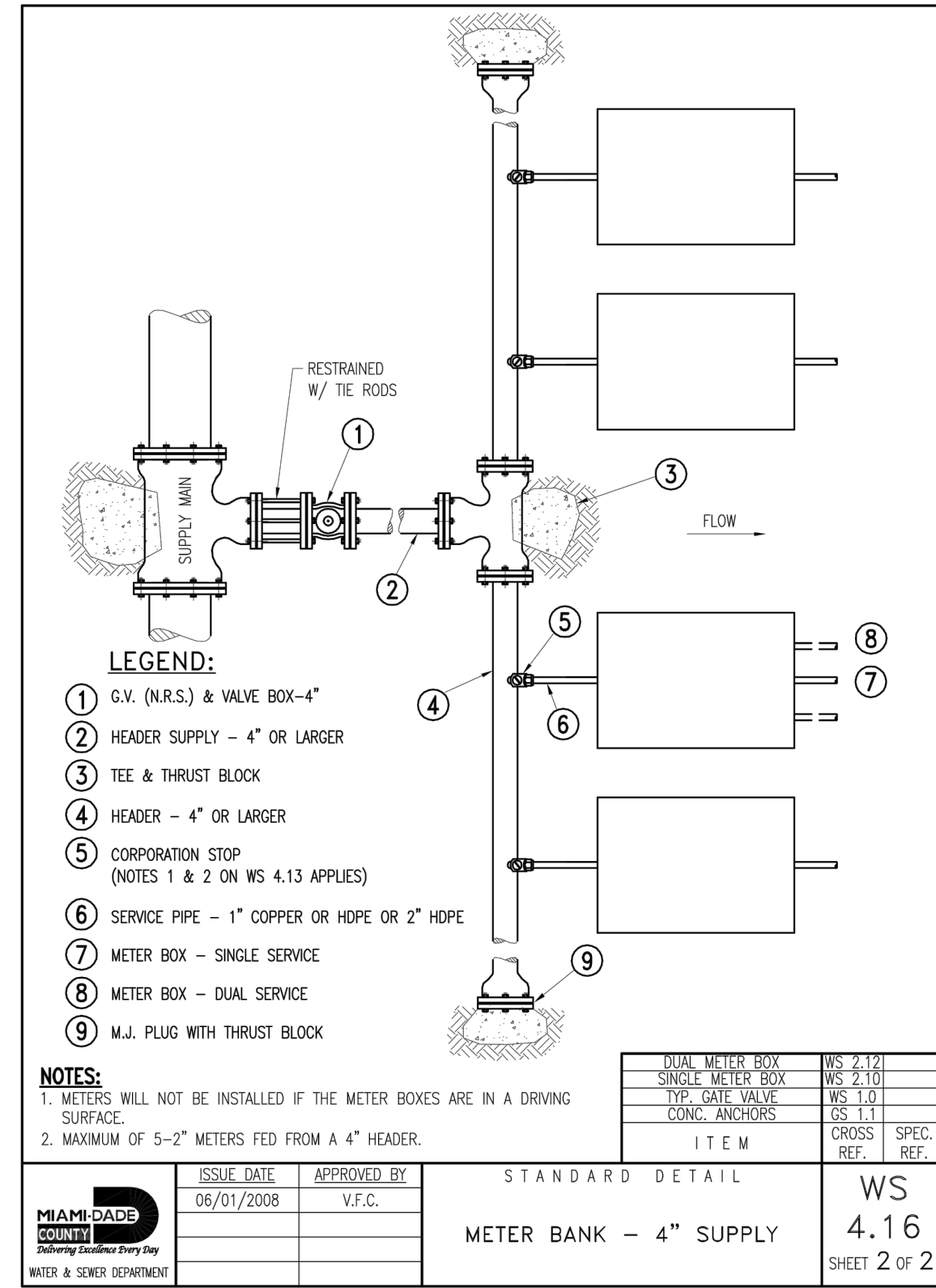
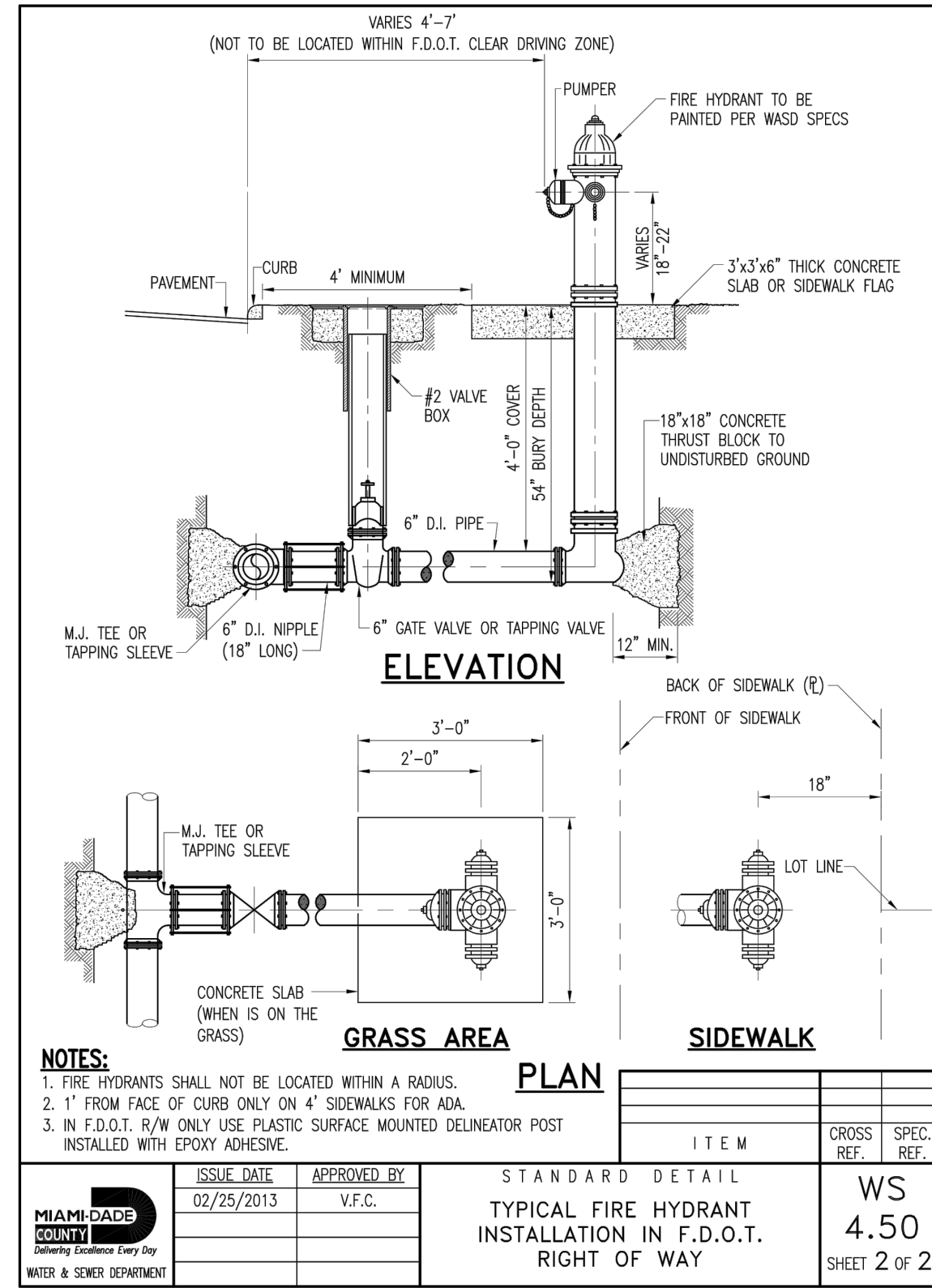
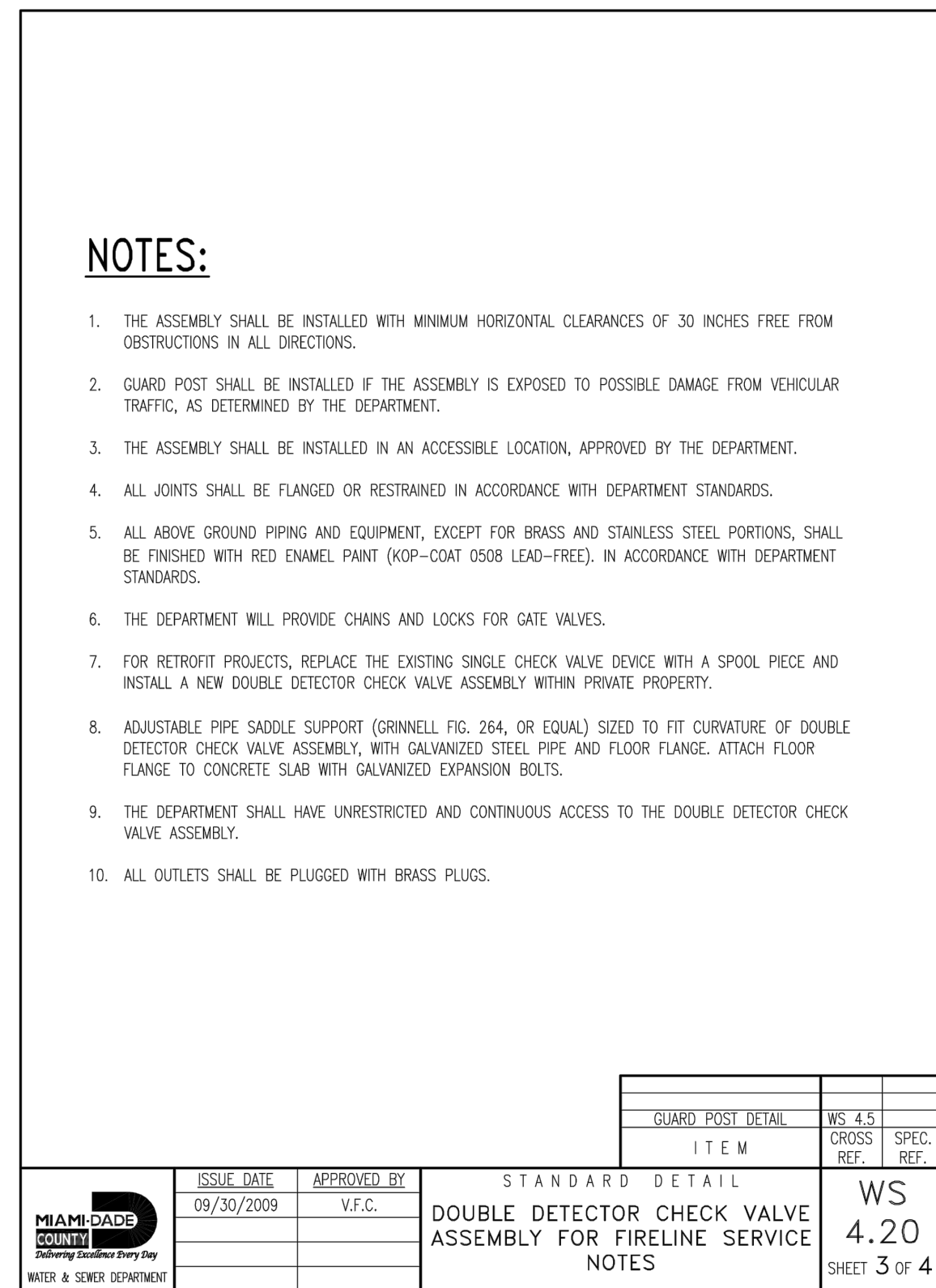
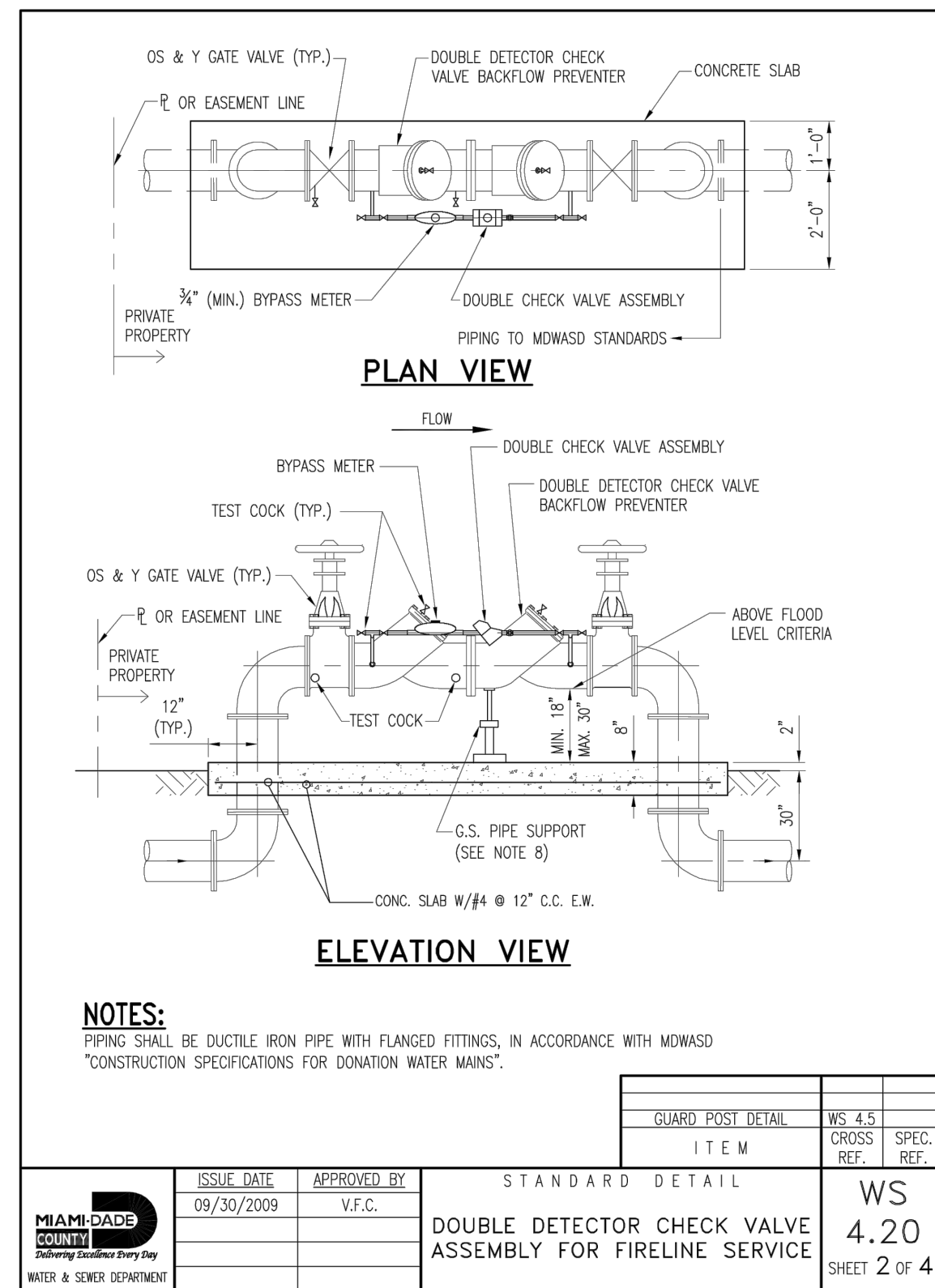
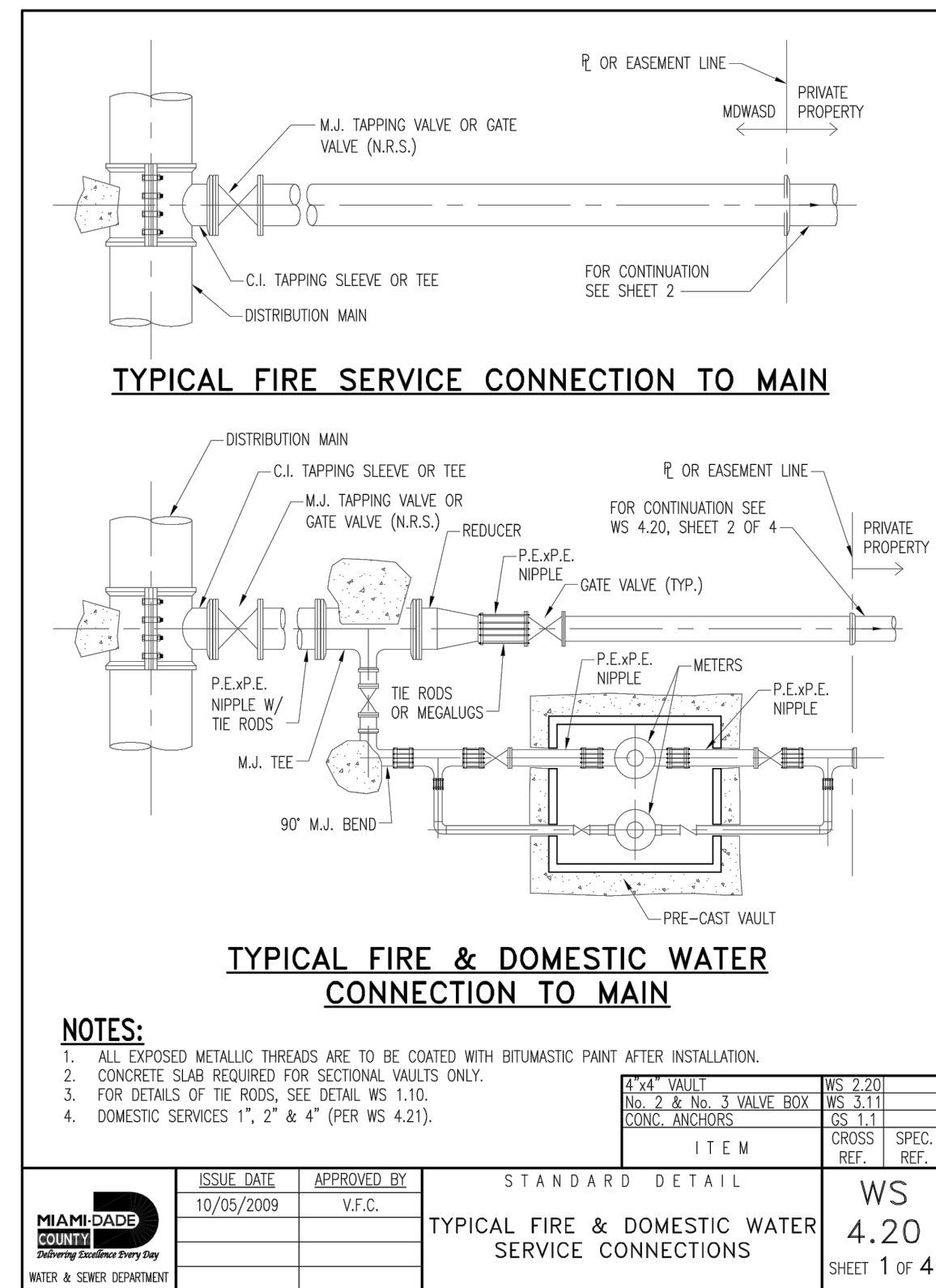
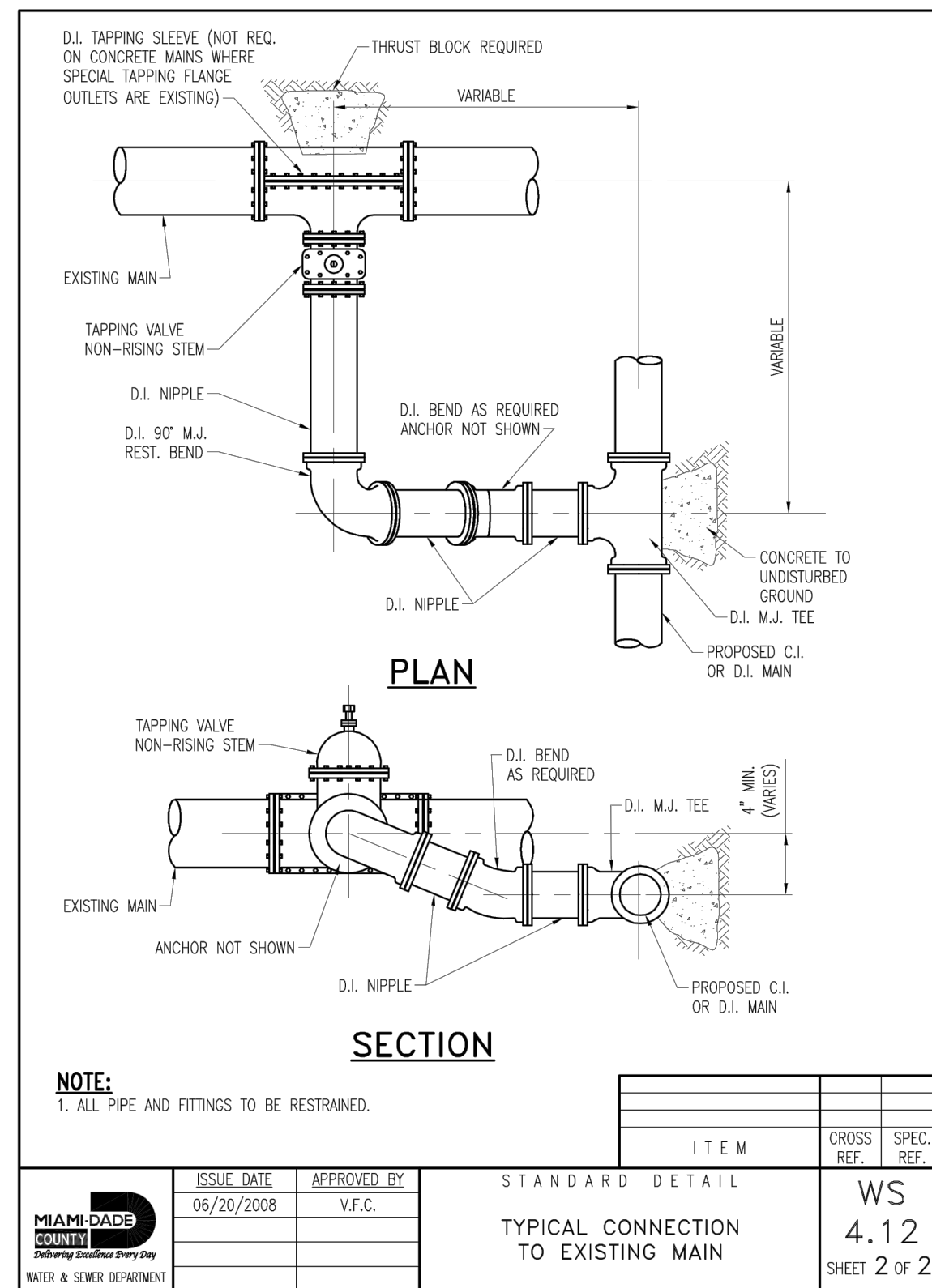
WATER & SEWER DETAILS

Revision		
No.	Date	Description

C500.4
PROJECT: 144429018
DATE: 05/03/2018

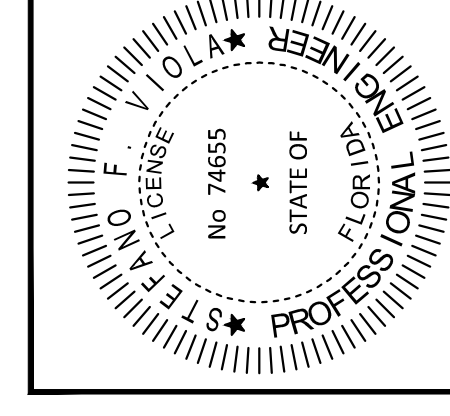
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Drawn By: MM
 Checked By: CF
 Approved By: SV



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5/4/2018

WATER & SEWER DETAILS

Revision		
No.	Date	Description

C500.5
 PROJECT: 144429018
 DATE: 05/03/2018

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Checked By: CF
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LOCATION OF PUBLIC WATER MAINS ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING & CROSSINGS (VALVE PART COVERED)
Storm Sewer, Stormwater Force Mains, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches in the clearance, except for storm sewer, then 12 inches in preference	Alternate: 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate: 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Force Mains, Reclaimed Water (3)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches in the clearance, except for storm sewer, then 12 inches in preference	Alternate: 6 ft. minimum
On-site Storage Treatment & Reclamation System	10 ft. minimum		

NOTES:
 (1) WATER MAIN SHOULD BE ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
 (2) RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-410, F.A.C. IS LAD AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
 (3) RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-410, F.A.C.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	07/20/2016	D.V.
STANDARD DETAIL	POTABLE WATER MAIN, WASTEWATER & STORM SEWER CONFLICT	GS 1.5
		SHEET 1 OF 2

NOTES:
 1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAD TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES, WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 12" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P., IRRESPECTIVE OF SEPARATION, D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
 2. WHENEVER POSSIBLE MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN (A MIN. 6" SEPARATION MAY BE APPROVED ON A CASE BY CASE BASIS). MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
 3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAD TO PROVIDE A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
 4. WASTEWATER LATERALS SHALL CROSS UNDER POTABLE WATER MAINS WITH A MIN. 12" VERTICAL SEPARATION WHENEVER POSSIBLE, WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, A 20' SECTION OF DUCTILE IRON PIPE POTABLE WATER MAIN CENTERED ON THE CROSSING IS REQUIRED AND THE MINIMUM VERTICAL SEPARATION SHALL BE 4", WHERE THERE IS NO ALTERNATIVE TO A WASTEWATER LATERAL PIPE CROSSING OVER A POTABLE WATER MAIN, A MINIMUM 12" VERTICAL SEPARATION IS REQUIRED, THE LATERAL SHALL BE P.V.C. C-900 SDIR18 OR BETTER, THE POTABLE WATER MAIN SHALL BE D.I.P., AND THE PIPE JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING.
 5. POTABLE WATER SERVICE LINES SHALL CROSS OVER WASTEWATER MAINS WITH MIN. 12" VERTICAL SEPARATION, WHERE THIS MIN. SEPARATION CANNOT BE MAINTAINED, THE WATER SERVICE SHALL BE CHECKED IN A MIN. 10' LONG CASING CENTERED OVER THE CROSSING WITH MIN. 6" VERTICAL SEPARATION.
 6. WASTEWATER MAINS, WATER MAINS, STORM PIPES AND OTHER UTILITY PIPES SHALL CROSS PERPENDICULAR WHENEVER POSSIBLE.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	10/06/2008	V.F.C.
STANDARD DETAIL	WATER AND SEWER MAINS CROSSING	GS 1.5
		SHEET 2 OF 2

NOTES:
 1. ALL EXPOSED METALLIC THREADS ARE TO BE COATED WITH BITUMASTIC PAINT AFTER INSTALLATION.
 2. USE 4" x 4" WALL.
 3. METERS WILL NOT BE INSTALLED IF THE METER BOX IS LOCATED ON A DRIVING SURFACE.
 4. ALL SPACER TUBES AND TAILPIECES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	10/05/2009	V.F.C.
STANDARD DETAIL	DUAL 2" METER INSTALLATION FOR TYPICAL 4" DOMESTIC SERVICE LINES	WS 4.21
		SHEET 1 OF 2

NOTES:
 1. ON-PARK COUPLING, TYP. 4 EA.
 2. 2" BRASS BALL VALVE, TYP. 4 EA.
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ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	09/16/2008	V.F.C.
STANDARD DETAIL	DUAL 2" METER INSTALLATION FOR TYPICAL 2" DOMESTIC SERVICE LINES	WS 4.21
		SHEET 2 OF 2

NOTE:
 A FLUSHING PORT CONNECTION IS REQUIRED FOR R.S. GATE VALVES INSTALLED IN THE HORIZONTAL POSITION WITH BEVEL GEARING TO CLEAR SAND AND DEBRIS FROM THE TRACKS OF THE VALVE, THE FLUSHING VALVE PORT DIAMETER SHALL BE SIZED ACCORDING TO THE VALVE SIZE.

MATERIAL CODES AND COMMENTS:
 ① STAINLESS 304 THREADED NIPPLE, ALLOW SUFFICIENT LENGTH FOR RISER TO CLEAR MAIN VALVE.
 ② 100 PSI RATED BRONZE BALL VALVE, THE MAIN VALVE SUPPORT SLAB MUST BE EXTENDED AT LEAST ONE FOOT TO PROVIDE SUPPORT FOR THE FLUSHING CONNECTION ISOLATION VALVE. AT THE VALVE END CONNECTION, EXTEND SLAB AT LEAST 2-INCHES FROM EACH END, FLANGE OR M.L.
 ③ STAINLESS 304 THREADED SHORT NIPPLE.
 ④ DIELECTRIC NIPPLE IPS X CTS GROOVE: GRAMCOCK-- DILCK FLG. 7091, OR APPROVED EQUAL.
 ⑤ COPPER OR BRASS NIPPLE, AT LEAST ONE END THREADED.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	10/06/2015	J.B.F.
STANDARD DETAIL	R.S. GATE VALVE FLUSHING PORT CONNECTION IN HORIZONTAL POSITION	WS 4.70
		SHEET 1 OF 1

INDEX
 ① ENTRANCE BY CORE DRILLING ONLY.
 ② CONSTRUCT FLOW CHANNELS AS PER SS 10.0
 ③ NEW OPENING SIZE TO BE AT THE PIPE OD+4
 ④ SEE DETAIL SS 7.0 FOR PIPING ARRANGEMENT.
 ⑤ SEAL ALL OPENINGS WITH NON-SHRINK GROUT.
 ⑥ 2'-00" MAX. DISTANCE BETWEEN INVERT OF NEW INFLUENT AND INVERT OF EXISTING MANHOLE.
 ⑦ D.I. PIPE CAN NOT EXTEND MORE THAN A MAX. OF 3' BEYOND INSIDE WALL AND MUST BE TIED TO THE WALL WITH CONCRETE P.V.C. PIPE SHALL BE FLUSH WITH INSIDE WALL OF MANHOLE.

THE MIAMI-DADE WATER AND SEWER DEPARTMENT MUST BE NOTIFIED 2 BUSINESS DAY BEFORE CONNECTION IS MADE.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	11/01/2006	V.E.F.
STANDARD DETAIL	NEW CONNECTION TO EXISTING MANHOLE (WHERE NO STUB-OUT EXISTS)	SS 6.2
		SHEET 1 OF 1

NOTES:
 1. MACHINE FINISH BOTTOM OF COVER AND SEAT OF FRAME.
 2. ALL DIMENSIONS ARE NET CASTING, NOT PATTERN.
 3. FOUNDRY AND LOCATION SHALL BE CAST ON BOTTOM OF THE LID. (SEE WS 2.05)
 4. MINIMUM WEIGHTS: RING: 134LBS
COVER: 44LBS

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	06/25/2015	J.B.F.
STANDARD DETAIL	No. 53 C.I. VALVE BOX AND LID	SS 13.0
		SHEET 1 OF 1

NOTES:
 1. A "GRASS AREA" IS ANY AREA OTHER THAN PAVED SURFACE OR A SIDEWALK AREA.
 2. IN "GRASS AREAS" THE TOP OF THE CONCRETE COLLAR OR SLAB SHALL BE FINISHED WITH THE TOP OF THE VALVE BOX OR MANHOLE.
 3. AREAS SUPPORTING CONCRETE COLLAR OR SLAB SHALL BE PROPERLY COMPACTED.
 4. CLEARANCE OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.

ITEM	CROSS REF.	SPEC. REF.
MIAMI-DADE COUNTY WATER & SEWER DEPARTMENT	06/01/2008	V.F.C.
STANDARD DETAIL	MANHOLE / VALVE BOX IN GRASS AREAS	SS 21.0
		SHEET 1 OF 1

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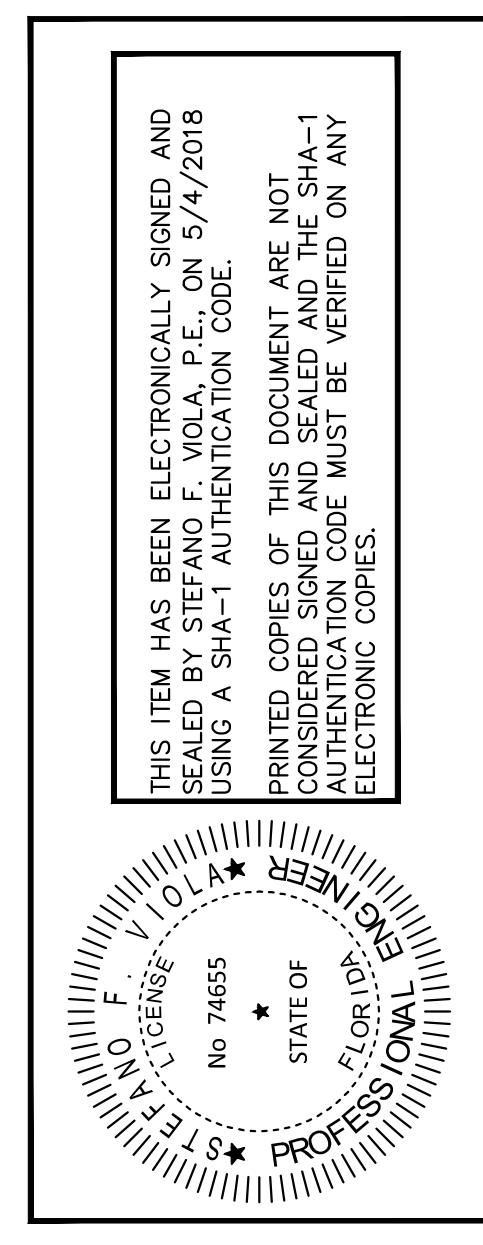
Baptist Health Emergency Center Doral

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Doral FL 33178

LICENSED PROFESSIONAL
STEFANO F. VIOLA, P.E.
FLORIDA LICENSE NUMBER 74655
5/4/2018

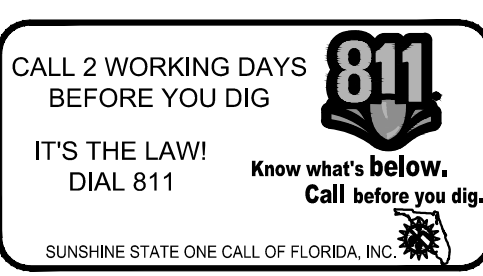
WATER & SEWER DETAILS

Revision		
No.	Date	Description



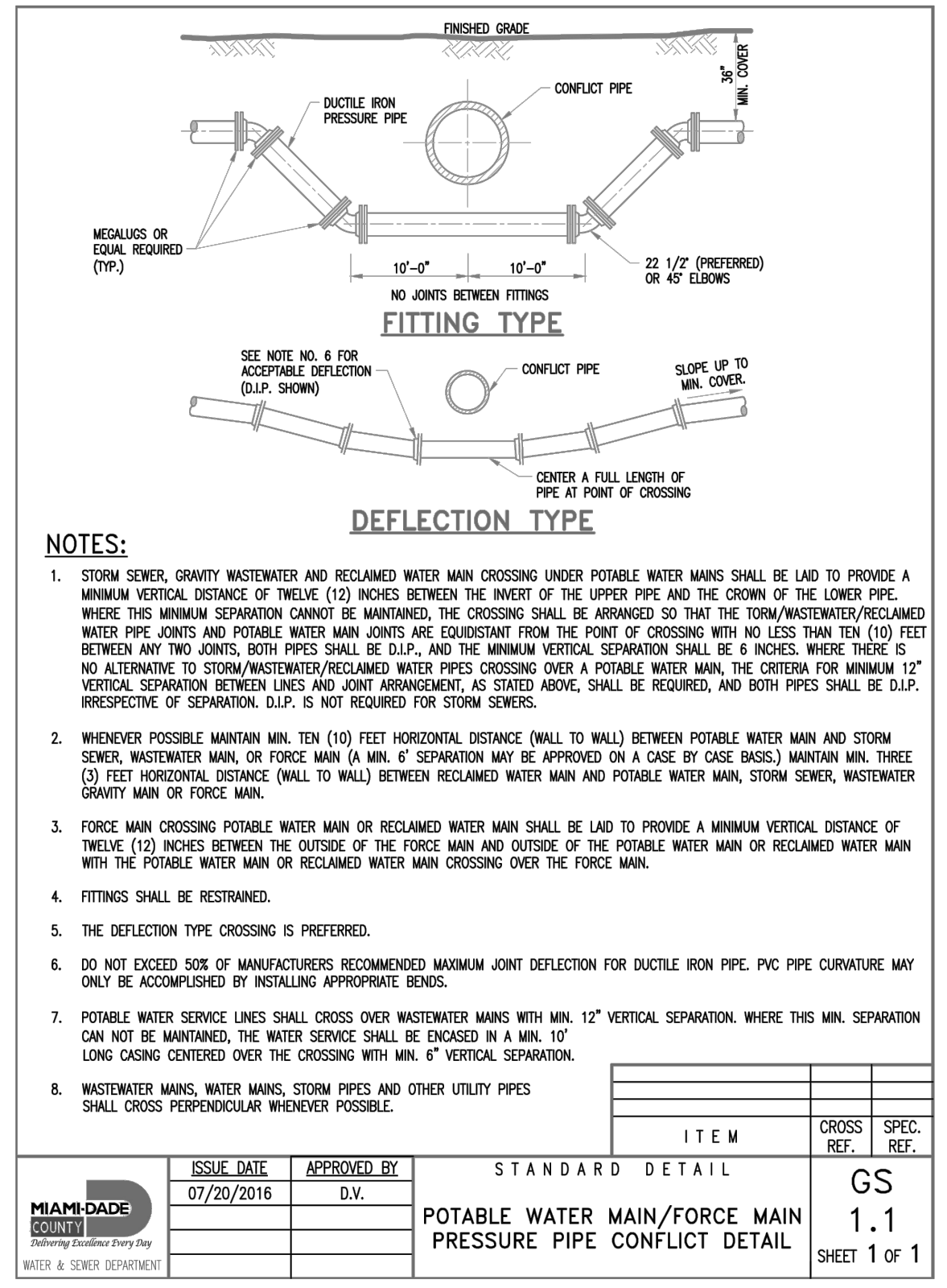
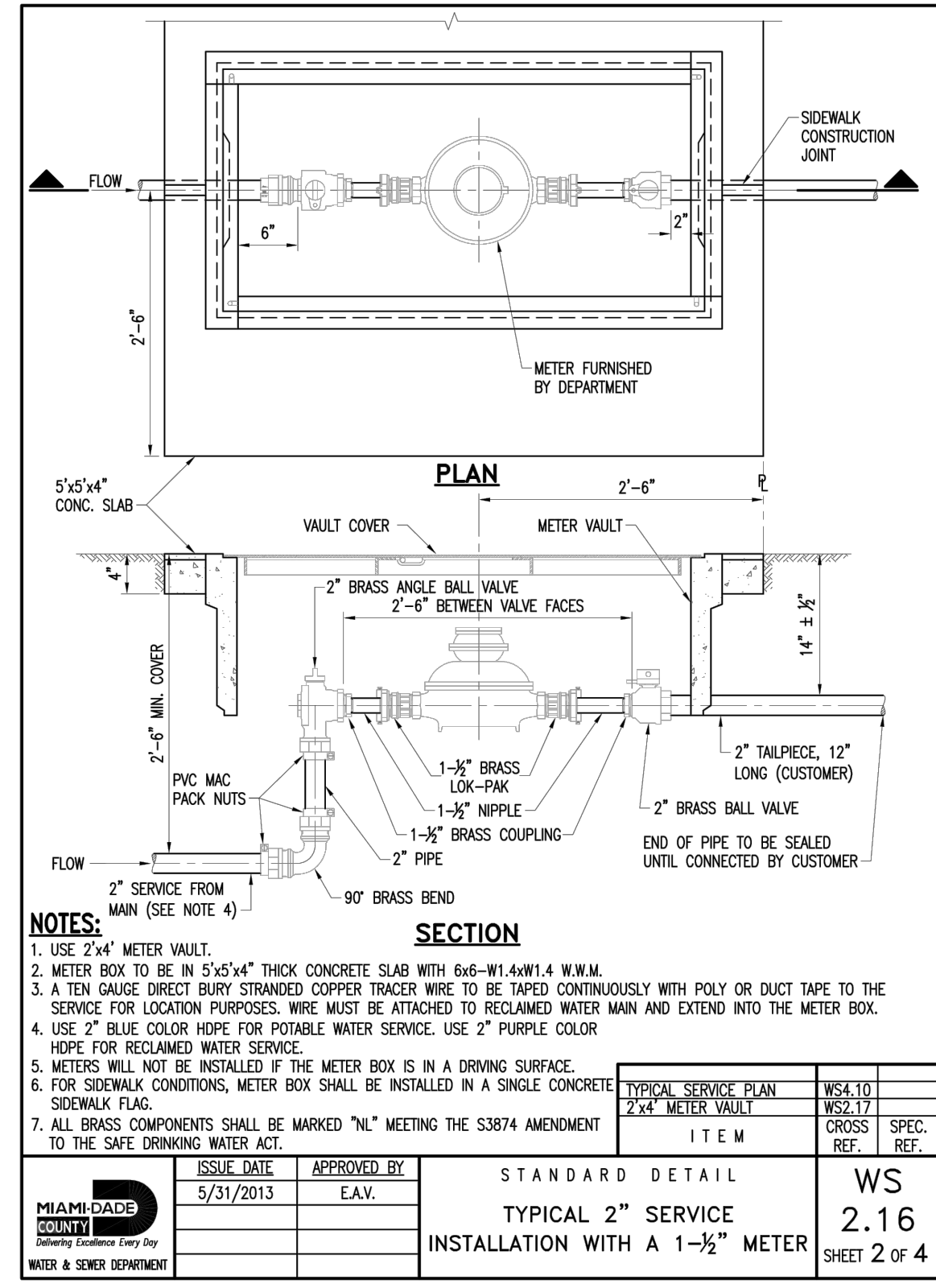
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MD-WASD AGREEMENT ID 23629



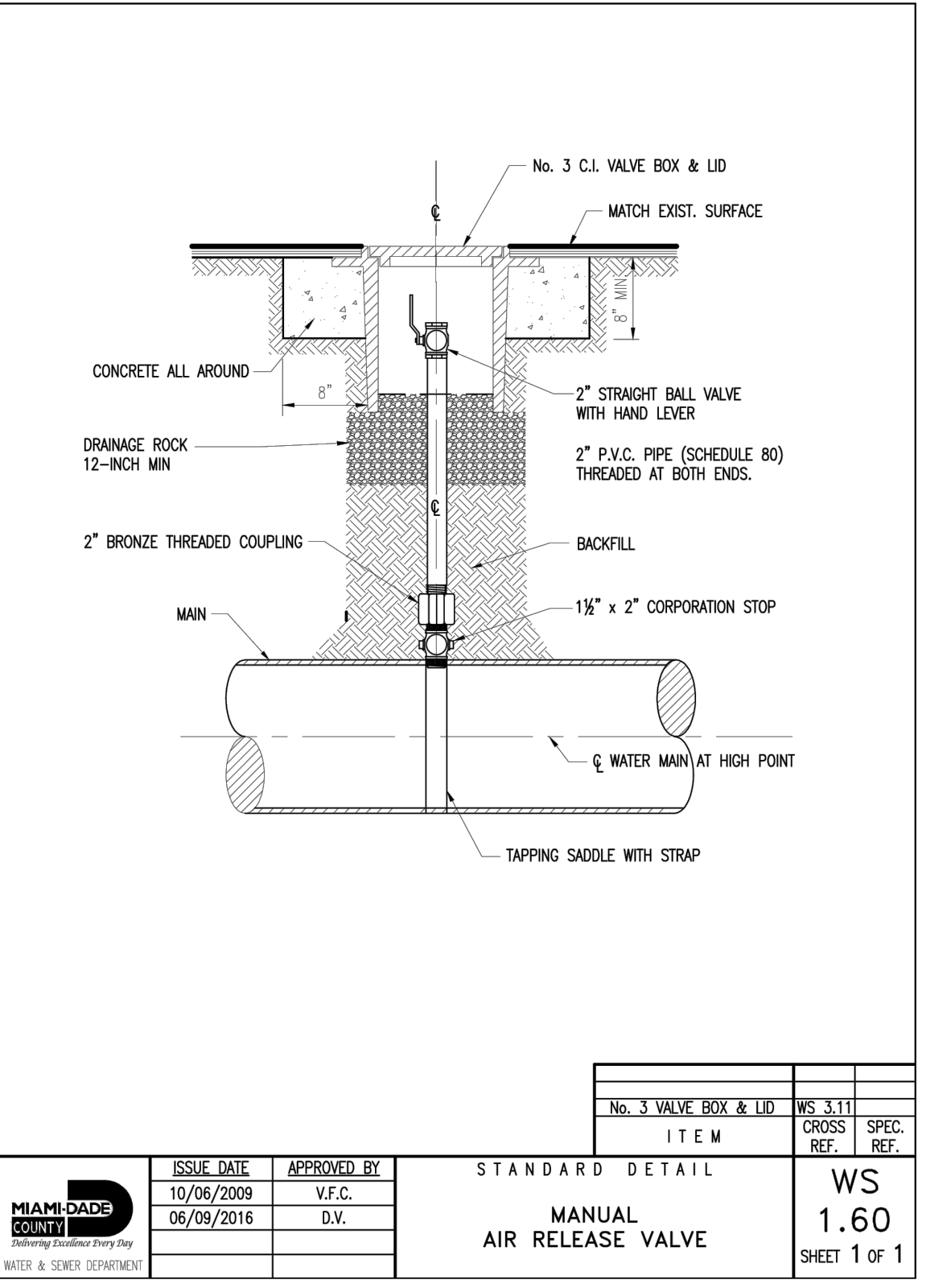
C500.6
PROJECT: 144429018
DATE: 05/03/2018

Drawn By: MM
 Checked By: CF
 Approved By: SV



MINIMUM LENGTH OF PIPE (FEET) TO BE RESTRAINED
(SOURCE: DWA NON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND OPEN THROAT RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 2.7)

FITTING TYPE	PIPE SIZE																
	4"	6"	8"	10"	12"	14"	16"	20"	24"	30"	36"	42"	48"	60"	72"	84"	96"
90° HORIZONTAL BEND	14	20	25	30	35	45	54	62	73	84	93	101					
45° HORIZONTAL BEND	6	8	11	13	15	19	22	26	30	35	38	42					
22.5° HORIZONTAL BEND	3	4	5	6	7	9	11	12	15	17	18	20					
11.25° HORIZONTAL BEND	1	2	3	3	4	4	5	6	7	8	9	10					
90° VERTICAL OFFSET	UPPER BEND	55	79	103	125	147	188	228	286	319	368	412	454				
	LOWER BEND	22	38	49	59	69	88	106	123	145	165	184	201				
45° VERTICAL OFFSET	UPPER BEND	22	32	42	51	60	77	93	109	131	151	170	187				
	LOWER BEND	10	14	19	23	28	35	43	50	59	67	75	82				
22.5° VERTICAL OFFSET	UPPER BEND	7	12	17	21	26	34	42	49	60	70	79	87				
	LOWER BEND	2	4	6	8	10	14	17	21	25	29	33	36				
11.25° VERTICAL OFFSET	UPPER BEND	3	4	6	8	11	15	19	22	28	32	37	41				
	LOWER BEND	1	1	2	3	5	7	8	10	12	14	16	18				
FLUG (DEAD END)	UPPER BEND	32	45	59	73	83	107	129	151	169	223	244	270				
	LOWER BEND	32	45	59	73	83	107	129	151	169	223	244	270				
IN-LINE VALVE	UPPER BEND	4	6	8	10	12	14	16	18	20	22	24	26				
	LOWER BEND	4	6	8	10	12	14	16	18	20	22	24	26				
4" x 0.23"	UPPER BEND	8	10	12	14	16	18	20	22	24	26	28	30				
	LOWER BEND	8	10	12	14	16	18	20	22	24	26	28	30				
6" x 0.21"	UPPER BEND	12	16	20	24	28	34	40	46	54	62	70	78				
	LOWER BEND	12	16	20	24	28	34	40	46	54	62	70	78				
8" x 0.19"	UPPER BEND	16	21	27	32	38	46	54	62	72	82	92	102				
	LOWER BEND	16	21	27	32	38	46	54	62	72	82	92	102				
10" x 0.18"	UPPER BEND	20	27	34	41	49	58	68	79	90	102	114	126				
	LOWER BEND	20	27	34	41	49	58	68	79	90	102	114	126				
12" x 0.17"	UPPER BEND	24	32	40	48	57	67	78	90	102	114	126	138				
	LOWER BEND	24	32	40	48	57	67	78	90	102	114	126	138				
14" x 0.16"	UPPER BEND	28	37	46	55	65	76	88	100	112	124	136	148				
	LOWER BEND	28	37	46	55	65	76	88	100	112	124	136	148				
16" x 0.15"	UPPER BEND	32	42	52	62	73	85	97	110	122	134	146	158				
	LOWER BEND	32	42	52	62	73	85	97	110	122	134	146	158				
18" x 0.14"	UPPER BEND	36	48	60	72	84	97	110	124	138	152	166	180				
	LOWER BEND	36	48	60	72	84	97	110	124	138	152	166	180				
20" x 0.13"	UPPER BEND	40	53	66	79	92	106	120	134	148	162	176	190				
	LOWER BEND	40	53	66	79	92	106	120	134	148	162	176	190				
24" x 0.11"	UPPER BEND	48	64	80	96	112	128	144	160	176	192	208	224				
	LOWER BEND	48	64	80	96	112	128	144	160	176	192	208	224				
30" x 0.09"	UPPER BEND	60	80	100	120	140	160	180	200	220	240	260	280				
	LOWER BEND	60	80	100	120	140	160	180	200	220	240	260	280				
36" x 0.08"	UPPER BEND	72	96	120	144	168	192	216	240	264	288	312	336				
	LOWER BEND	72	96	120	144	168	192	216	240	264	288	312	336				
42" x 0.07"	UPPER BEND	84	112	140	168	196	224	252	280	308	336	364	392				
	LOWER BEND	84	112	140	168	196	224	252	280	308	336	364	392				
48" x 0.06"	UPPER BEND	96	128	160	192	224	256	288	320	352	384	416	448				
	LOWER BEND	96	128	160	192	224	256	288	320	352	384	416	448				



Plotted By: Levine, Anabella Sheet: Set:BHSF-DORAL Layout: WS DETAILS 6 May 04, 2018 10:55:53am K:\FTL_Civil\144 Jobs\14429018-BHSF Doral\CAD\PlanSheet\C500.7 Water and Sewer Details.dwg



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LICENSED PROFESSIONAL
 STEFANO F. VIOLA, P.E.
 FLORIDA LICENSE NUMBER
 74655
 5/4/2018

WATER & SEWER DETAILS

Revision		
No.	Date	Description

C500.7
 PROJECT: 144429018
 DATE: 05/03/2018

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND
 SIGNED BY STEFANO F. VIOLA, P.E. ON 5/4/2018
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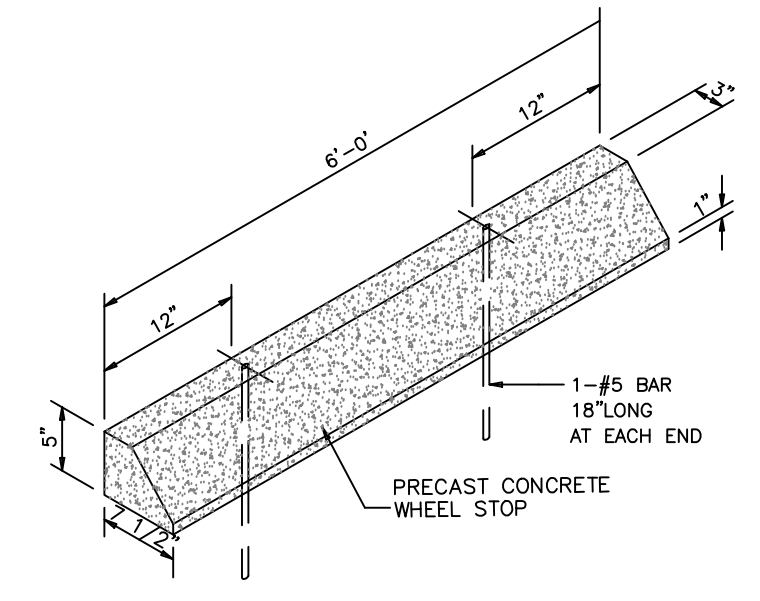
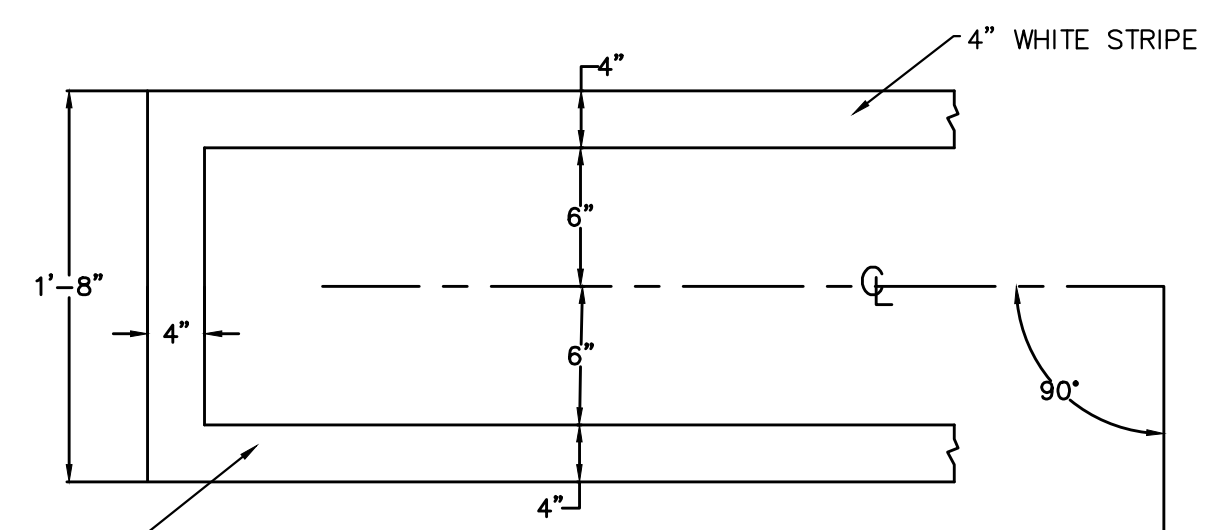
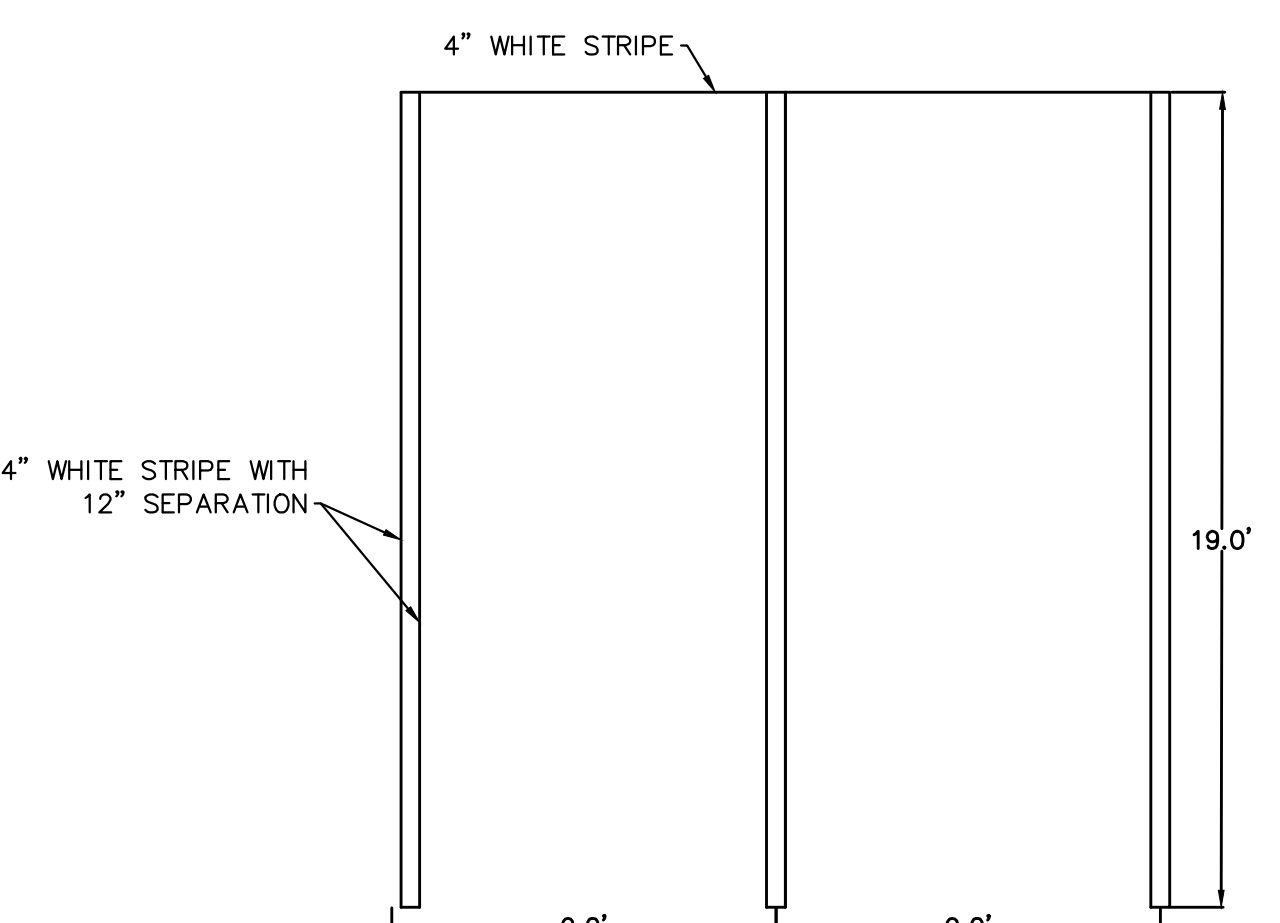
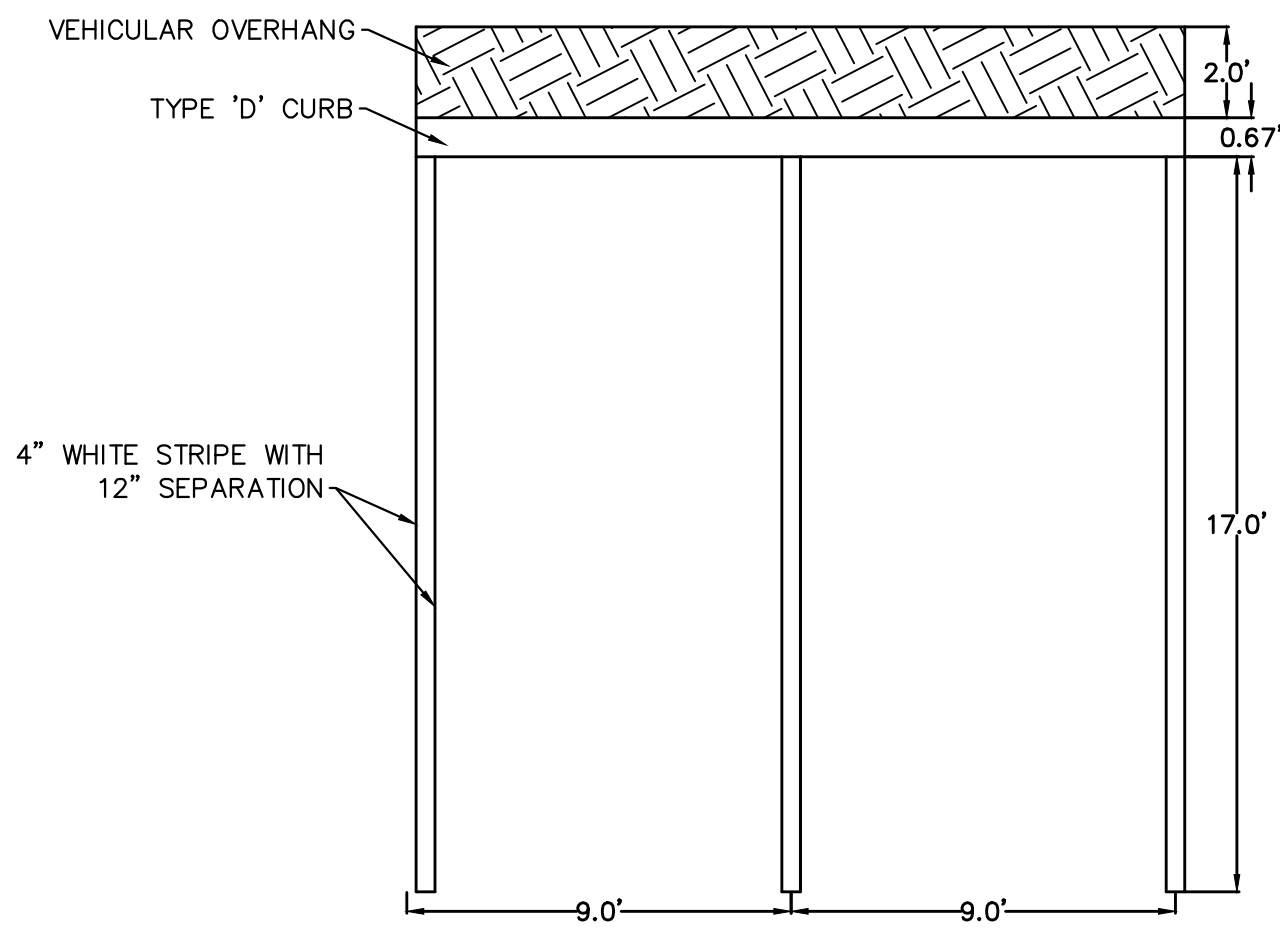
MD-WASD
 AGREEMENT ID 23629

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 BEFORE YOU DIG
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 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

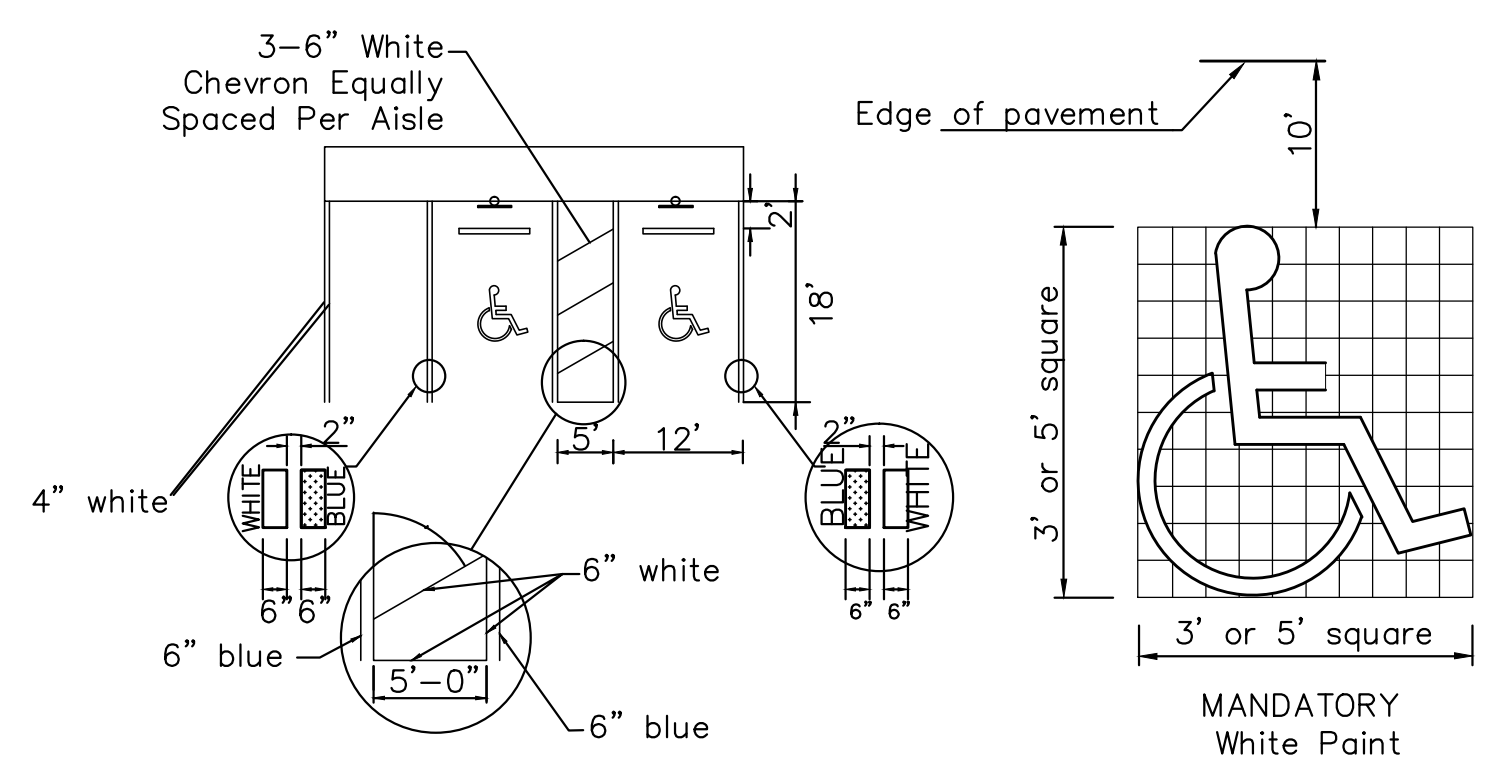
Drawn By: MM
Checked By: CF
Approved By: SV

SIGN QUANTITY

SIGN SYMBOL	SIGN NUMBER AND DIMENSIONS	QUANTITY
	R1-1 30"x 30"	6
	FDOT #FTP-20-06 12"x 18" FDOT #FTP-22-06 12"x 6"	5
	CUSTOM 12"x 18"	1
	CUSTOM 12"x 18"	2
	R5-1 30"x 30"	4
	CUSTOM 12"x 18"	2
	R5-1 30"x 30"	2
	R1-5R 18"x 18"	1
	R1-5L 18"x 18"	1



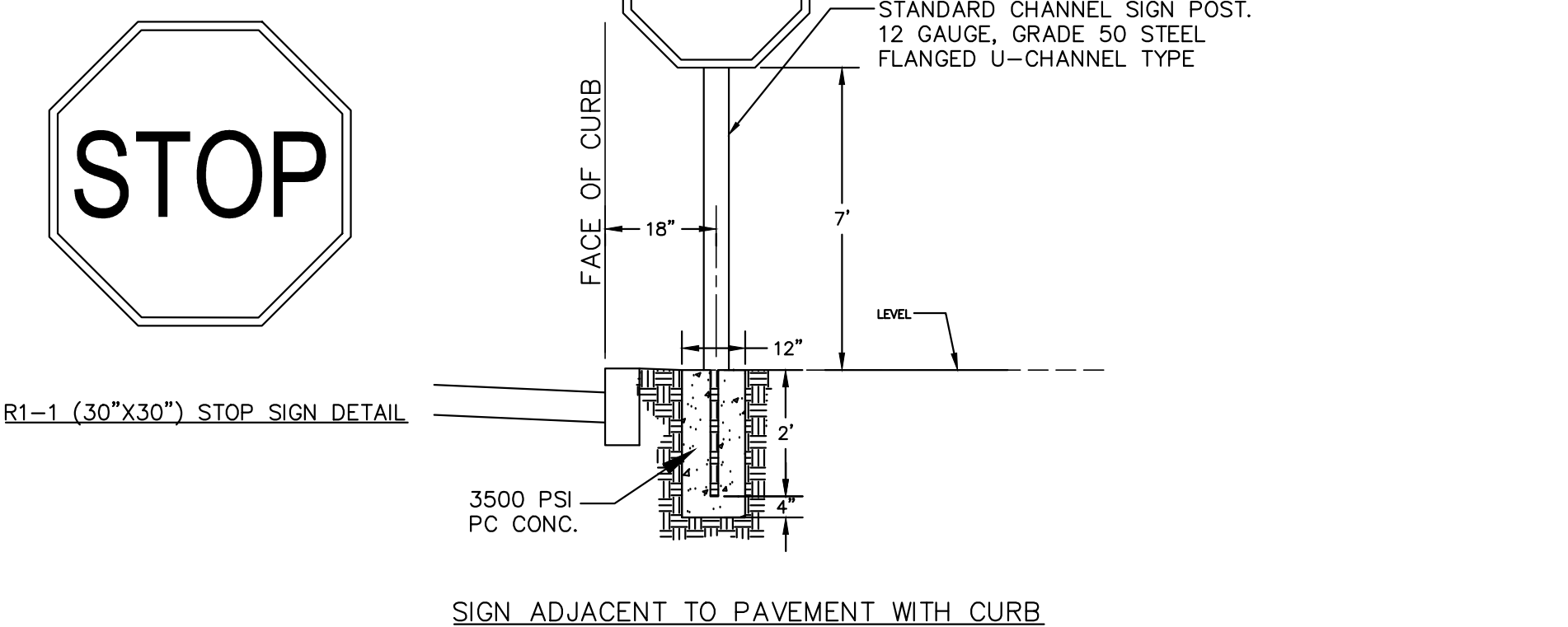
NOTE:
ALL STRIPING AND SIGNAGE MUST COMPLY WITH FDOT, AND MIAMI-DADE COUNTY REQUIREMENTS.



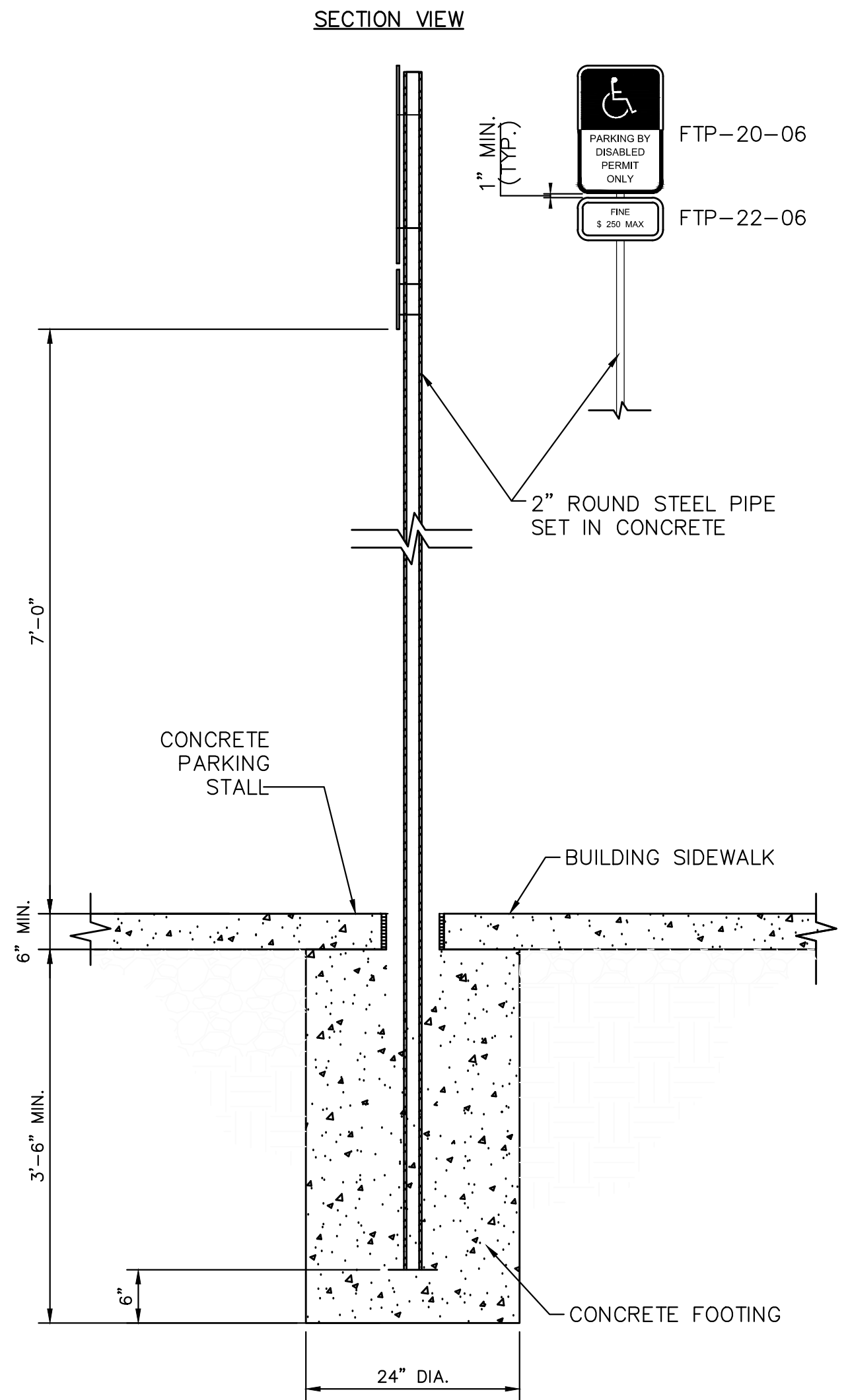
- NOTES:**
- STRIPING IS TO BE PAINT, CONFORMING WITH FDOT SPECIFICATIONS.
 - DIMENSIONS SHOWN ARE TO THE CENTERLINE OF THE STRIPE.
 - EACH SPACE SHALL HAVE FTP-20-06 AND FTP-22-06 SIGNS AS SHOWN, FABRICATED WITH REFLECTIVE COATING IN THE SYMBOL, MESSAGE, AND BORDER, APPLIED TO A SHEET ALUMINUM BACKING 0.080 IN THICKNESS. MESSAGE LETTERING SHALL BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - CONCRETE FOOTING SHALL BE PORTLAND CEMENT CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
 - METAL POST SHALL BE GALVANIZED AND ALL BOLTS, NUTS, WASHERS, AND SCREWS SHALL BE RUSTPROOF. POST SHALL BE PLACED A MINIMUM OF 2'-6" CLEAR FROM FACE OF CURB OR WHEEL STOP. POST SHALL HAVE 3/8" HOLES DRILLED 1" ON CENTER FULL LENGTH. MOUNT SIGNS WITH 5/16"x2-1/4" BOLTS, TOP AND BOTTOM OF SIGNS.

ACCESSIBLE PARKING STALL STRIPING AND SIGNAGE

N.T.S.



- NOTE:**
- STOP SIGN AND ASSEMBLY SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MIAMI-DADE COUNTY TRANSPORTATION AND PUBLIC WORKS DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS AND MUTCD.



- GENERAL NOTES:**
- ALL STOP BARS SHOWN ON RESURFACING AND STRIPING PLANS SHALL BE LOCATED AS PER MIAMI-DADE COUNTY STANDARDS.
 - DETAILS IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS, AND MIAMI-DADE COUNTY PUBLIC WORKS MANUAL SHALL BE USED WHERE APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" (1-800-432-4770) 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION OR GRADING OPERATIONS.
 - REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AS NOTED IN PLANS AND DETAILS. ALL STRIPING SHALL BE THERMOPLASTIC.
 - REPAIR ANY POTHoles IN AREA TO BE RESURFACED PRIOR TO RESURFACING.
 - EXISTING SIGNS NOT SHOWN IN PLANS ARE TO REMAIN.

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LICENSED PROFESSIONAL

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FLORIDA LICENSE NUMBER
74655

5/4/2018

PAVEMENT MARKING & SIGNAGE DETAILS

Revision		
No.	Date	Description

C600.1

PROJECT: 144429018
DATE: 05/03/2018

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