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 threating 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;
- 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.

<u>Section 3.</u> <u>Implementation.</u> 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.

<u>Section 4.</u> <u>Effective Date.</u> 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 Vice Mayor Ana Maria Rodriguez

Councilman Pete Cabrera Councilwoman Christi Fraga

Councilwoman Claudia Mariaca

Yes

Yes

Not Pesent at Time of the Vote

Yes

Yes

PASSED AND ADOPTED this 23 day of May, 2018.

JUAN CARLOS BERMUDE

ATTEST:

CONNIE DIAZ, CMC

CITY CLERK

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

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

CITY ATTORNEY

EXHIBITS

EXHBIT 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 RECODED 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





Baptist Health Emergency Center Dor

Baptist Health Emergency Center Doral

9500 NW 58TH STREET DORAL, FL 33178

GS&P No. 42594.00

GUSTAVO ALFONSO

PROJECT INFORMATION SHEET

GENERAL NOTES FOR PROJECTS

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE DRAWINGS AND THE PROJECT MANUAL (SPECIFICATIONS, SCHEDULES, ETC.).
 THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THESE DRAWINGS AND THE PROJECT MANUAL; AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES THAT IS DISCOVERED IN WRITING.
- 2. THE CONTRACTOR SHALL PROVIDE CHASES FOR MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, COMMUNICATIONS, ETC., AS REQUIRED AND AS NECESSARY. SEE RESPECTIVE DISCIPLINES' DRAWINGS. CONTRACTOR SHALL MAINTAIN THE FIRE RESISTIVE PROPERTIES OF
- LL
 WALLS AND SLABS AS A RESULT OF THESE CHASES TO COMPLY WITH ALL APPLICABLE CODES.

SMOKE PARTITIONS SHALL BE "KEY LOCKED".

- PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES (WITH THE EXCEPTION OF PIPING IN STAIRWAYS, ELECTRICAL ROOMS AND MECHANICAL ROOMS). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL GAIN APPROVAL FROM THE ARCHITECT IN ADVANCE, PRIOR TO LOCATING AND/OR PROVIDING ANY "FURRED SPACES" WHICH ARE NOT SPECIFICALLY INDICATED ON THE FLOOR PLANS.
- FOR ALL RATED FIRE BARRIERS AND RATED SMOKE BARRIERS, THE SURFACE AREA OF AN INDIVIDUAL RECESSED METALLIC ELECTRIC OUTLET BOX SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE RECESSED METALLIC BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF SURFACE WALL AREA. BOXES THAT EXCEED EITHER 16 SQUARE INCHES OR THE AGGREGATE AREA LIMITATION SHALL BE RECESSED. COMPLY WITH ALL REQUIREMENTS OF NFPA 101 AND FBC.
- 5. RECESSED METALLIC BOXES LOCATED ON OPPOSITE SIDES OF RATED FIRE BARRIERS AND/OR RATED SMOKE BARRIERS (REGARDLESS OF THEIR VERTICAL SEPARATION IN THE WALL) SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM, AS SHOWN IN DETAIL "METALLIC ELECTRICAL OUTLET BOXES RECESSED IN RATED FIRE BARRIERS AND/OR RATED SMOKE BARRIERS". COMPLY WITH ALL REQUIREMENTS OF NFPA 101 AND FBC.
- 6. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THROUGH METAL STUD/GYPSUM BOARD WALLS. SEE DETAIL SHEETS. ALSO, COMPLY WITH "PATCHING AND SEALING PENETRATIONS IN RATED FIRE BARRIERS AND/OR RATED SMOKE BARRIERS" DETAIL.
- REGARDING ACCESS PANELS:

 (1) THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS (OF APPROPRIATE SIZE & TYPE) ARE INSTALLED IN WALLS/PARTITIONS/BARRIERS AND IN "NON-ACCESSIBLE TYPE" CEILINGS AND SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, FIRE PROTECTION, SECURITY, ELECTRICAL AND COMMUNICATION ITEMS MAY BE REQUIRED. COMPLY WITH THE SPECIFICATIONS AND WITH NEC RULE 314.29.
 (2) ACCESS PANELS SHALL BE THE "FIRE RATED TYPE" EQUAL TO THE RATING OF THE WALL, BARRIER, PARTITION, SOFFIT OR CEILING IN WHICH THEY OCCUR.
- (3) THE CONTRACTOR SHALL SUBMIT DRAWINGS WHICH INDICATE PROPOSED LOCATIONS OF ALL ACCESS PANELS FOR REVIEW.
 (4) WALL MOUNTED ACCESS PANELS SHALL BE "KEY LOCKED" IN SPACES THAT ARE ACCESSIBLE TO THE PUBLIC *, PATIENTS* AND GENERAL STAFF.
 (5) WALL MOUNTED ACCESS PANELS LOCATED IN RATED FIRE WALLS, RATED FIRE BARRIERS, RATED SMOKE BARRIERS AND/OR NON-RATED
- (6) CEILING MOUNTED ACCESS PANELS IN ALL TOILET ROOMS SHALL BE "KEY LOCKED".
 (7) THE CONTRACTOR SHALL REPLACE ANY ACCESS PANEL WHOSE KEY LOCK OR LATCHING MECHANISM HAS BEEN PAINTED.
 (8) ACCESS PANELS SHALL BE GASKETED TO BE "AIR-TIGHT" IN THE FOLLOWING SPACES: OPERATING ROOMS; DELIVERY, LDR AND LDRP ROOMS; ENDO AND CYSTOSCOPY ROOMS; ISOLATION ROOMS; ISOLATION ANTE ROOMS; CATH LABS; ALL TOILET ROOMS THAT OPEN TO ANY OF THE AFOREMENTIONED SPACES, AND ALL SPACES UNDER NEGATIVE PRESSURE THAT DO NOT HAVE A SUPPLY DIFFUSER (SUCH
- 8. PROVIDE CONTINUOUS SEALANT TO PROVIDE "WATER-TIGHT" AND "AIR-TIGHT" CONDITION AT THE PERIMETERS OF ALL DOOR FRAMES, INTERIOR WINDOW FRAMES, EXTERIOR WINDOW FRAMES, WINDOW STOOLS, CABINETS, CASEWORK, COUNTERTOPS, PLUMBING FIXTURES,
- TOILET
 ACCESSORIES (BOTH RECESSED & SURFACE MOUNTED), FIRE EXTINGUISHER CABINETS, FIRE DEPARTMENT VALVE CABINETS, ETC. (EVEN WHEN THE JOINT AT THE PERIMETER IS EITHER HIDDEN OR NOT READILY VISIBLE).
- 9. EQUIPMENT INDICATED WITH DASHED LINES SHALL BE FURNISHED BY THE OWNER AND RECEIVED/STORED BY THE GENERAL CONTRACTOR. (SEE OWNER FURNISHED EQUIPMENT MANUAL AND OWNER FURNISHED VENDOR DRAWINGS.) THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE DELIVERY AND INSTALLATION OF ALL OWNER FURNISHED EQUIPMENT.
- 10. DO NOT EMBED CONDUIT INTO ANY ELEVATED COMPOSITE SLAB. ALSO, DO NOT RECESS OR EMBED CONDUIT, PIPING, BACK BOXES OR ANYTHING ELSE (THAT COULD ADVERSELY AFFECT EITHER THE STRUCTURAL INTEGRITY OR THE FIRE RATED INTEGRITY OF THE ELEVATED SLAB) INTO ANY TYPE OF ELEVATED SLAB.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING DIRECTLY WITH THE OWNER REGARDING ANY OWNER DESIRED CHANGES TO THE NUMBERING SYSTEM AND/OR NAMING CONVENTION FOR INDIVIDUAL SPACES, ROOMS, FLOOR LEVELS, ETC. IN THE PROJECT. THESE MUST BE VERIFIED PRIOR TO THE LABELING OF, OR IDENTIFICATION OF, ANY OF THESE ITEMS/SPACES IN (OR ON) ELECTRICAL PANELS, MECHANICAL EQUIPMENT, FIRE ALARM SYSTEMS, FIRE ALARM PANELS, ELEVATORS, SIGNAGE, COMMUNICATION SYSTEMS, SECURITY SYSTEMS,
- 12. THE SHAPES AND SIZES OF STRUCTURAL MEMBERS SHOWN ON ARCHITECTURAL FLOOR PLANS, SECTIONS AND DETAILS ARE "DIAGRAMMATIC ONLY". SEE THE STRUCTURAL DRAWINGS FOR THE ACTUAL SHAPE AND SIZE OF EACH STRUCTURAL MEMBER.
- 13. AS REQUIRED BY THE CURRENT EDITION OF THE FLORIDA BUILDING CODE:

 (1) PER FBC, ALL RATED SMOKE BARRIERS, TWO-HOUR RATED HORIZONTAL EXITS AND THE RATED BARRIERS AROUND EXIT

 PASSAGEWAYS SHALL BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF INTERVENING LOWER PRIORITY WALLS. SEE DETAIL
- "PRIORITY LEGEND FOR ABUTMENT OF DIFFERING WALLS/PARTITIONS/BARRIERS".

 (2) PER FBC, RATED SMOKE BARRIERS SHALL BE CONSTRUCTED SO AS TO PROVIDE A CONTINUOUS RATED SMOKE-TIGHT

 MEMBRANE FROM "EXTERIOR WALL-TO-EXTERIOR-WALL" AND FROM "FLOOR-TO-UNDERSIDE OF DECK ABOVE". THIS INCLUDES INTERSTITIAL
- SPACES AND THE AREAS ABOVE "SOLID" FIRE TESTED MEMBRANES.

 (3) PER FBC, WHERE ELECTRICAL CONDUITS, CABLE TRAYS, DUCTS AND UTILITY PIPES PASS THROUGH A RATED FIRE BARRIER
 OR RATED SMOKE BARRIER, THE UTILITIES SHALL BE LOCATED SO THAT ACCESS IS MAINTAINED TO ADJACENT WALL SURFACES AND TO ALL DAMPER ACCESS PANELS. THERE SHALL ALSO BE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN ALL CONDUITS, PIPING AND DUCTWORK THAT ARE PARTED.

PLAN REVIEW DATA

BUILDING CLASSIFICATION:

OCCUPANCY TYPE:

PER FLORIDA BUILDING CODE, 6TH EDITION (2017), SECTION 302: GROUP I2

PER FLORIDA FIRE PREVENTION CODE (6TH EDITION), SECTION 6.1.5: HEALTH CARE

CONSTRUCTION TYPE:
PER FLORIDA BUILDING CODE, 6TH EDITION (2017), TABLE 506.2: TYPE IIA
SECTION 506 BUILDING AREA MODIFICATION / SECTION 506.3 (ALLOWABLE BUILDING AREA INCREASE)

PER FLORIDA FIRE PREVENTION CODE (6TH EDITION), TABLE A8.2.1.2: TYPE II (111) BUILDING FIRE PROTECTION:

ENTIRE BUILDING IS EQUIPPED W/ FULLY AUTOMATIC SPRINKLER SYSTEM

REQUIRED ASSEMBLY RATINGS: PER FLORIDA BUILDING CODE, 6TH	EDITION (20	17), TABLE A601
BUILDING ELEMENT	TYPE II	
	Α	
PRIMARY STRUCTURAL FRAME	1	
BEARING WALLS		
EXTERIOR	1	
INTERIOR	1	
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1	
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1	

CONSTRUCTION ELEMENT	TYPE II
CONSTRUCTION ELEMENT	111
EXTERIOR BEARING WALLS	
SUPPORTING MORE THAN ONE FLOOR,	1
COLUMNS OR OTHER BEARING WALLS	1
INTERIOR BEARING WALLS	
SUPPORTING MORE THAN ONE FLOOR,	1
COLUMNS OR OTHER BEARING WALLS	1
COLUMNS	
SUPPORTING MORE THAN ONE FLOOR,	1
COLUMNS OR OTHER BEARING WALLS	1
BEAMS, GIRDERS, TRUSSES AND ARCHES	
SUPPORTING MORE THAN ONE FLOOR,	1
COLUMNS OR OTHER BEARING WALLS	1
FLOOR - CEILING ASSEMBLIES	1
ROOF - CEILING ASSEMBLIES	1

BUILDING INFORMATION:

BUILDING HEIGHTS:

MAXIMUM BUILDING HEIGHT: 44' - 0"
MAXIMUM ALLOWABLE HEIGHT: 6 STORIES

BUILDING AREAS:

GROUND FLOOR: 16,255 GSF SECOND FLOOR: 27,344 GSF

TOTAL BUILDING AREA: 43,599 GSF

ALLOWABLE BUILDING AREA: 12: 22,000 GSF B:37,500 GSF

SLAB SEPERATING 1st AND 2nd FLOOR : 2HR RATING

GOVERNING CODES AND REGULATIONS:

FLORIDA BUILDING CODES:

FLORIDA BUILDING CODE 6th EDITION (2017) BUILDING
FLORIDA BUILDING CODE 6th EDITION (2017) ACCESSIBILITY
FLORIDA BUILDING CODE 6th EDITION (2017) ENERGY CONSERVATION
FLORIDA BUILDING CODE 6th EDITION (2017) TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES
FLORIDA BUILDING CODE 6th EDITION (2017) MECHANICAL

FLORIDA BUILDING CODE 6th EDITION (2017) MECHANICAL FLORIDA BUILDING CODE 6th EDITION (2017) PLUMBING FLORIDA BUILDING CODE 6th EDITION (2017) FUEL GAS

NATIONAL ELECTRICAL CODE / NFPA 70 (2014 EDITION)

GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES (2014 EDITION)

FLORIDA ADMINISTRATIVE CODES (INCLUDING LIFE SAFETY CODES):

Codes as referenced in the FLORIDA BUILDING CODE, Section 419: Hospitals
Chapter 59A-3.081: Physical Plant Requirements for General, Rehabilitation and Psychiatric Hospitals.
Chapter 69A-53: Uniform Fire Safety Standards for Hospitals and Nursing Homes
Chapter 69A-3.012: Standards of the National Fire Protection Association and Other Standards Adopted
FLORIDA FIRE PREVENTION CODE 6th EDITION (2017) which includes:
NFPA 1, FIRE CODE (2017 Edition)

NFPA 101, LIFE SAFÈTY CODE (2017 Edition) 101, LIFE SAFÈTY CODE (2017 Edition) 102, SFM Uniform Fire Safety Rules: https://www.flrules.org/gateway/organization.asp?id=359 or 850-413-3619 Chapter 633, Florida Statutes, Fire Prevention and Control: http://leg.state.fl.us/statutes/ or 850-413-3619

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES:

SEE THE LIST OF APPLICABLE NFPA CODES (AND THE EDITION OF EACH) IN SPECIFICATION SECTION 01 4113 - "CODES AND STANDARDS" IN THE PROJECT MANUAL

FEDERAL CODES AND REGULATIONS:

THE AMERICANS WITH DISABILITIES ACT [ADA] AND ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (2010)
ASME A17.1-2004 (includes A17.1a in 2005 ADDENDA) - SAFETY CODE FOR ELEVATORS AND ESCALATORS
ASME A17.1S-2005 - SUPPLEMENT TO SAFETY CODE FOR ELEVATORS AND ESCALATORS
ASME A17.1-1990 - SAFETY CODE FOR ELEVATORS AND ESCALATORS (as referenced by 2017 FLORIDA ACCESSIBILITY CODE)

DESIGN TEAM

Structural

Engineering:

Architecture & GRESHAM, SMITH AND PARTNERS
Interior Design: Two Alhambra Plaza
Suite 1200

P. 954.474.7578

Coral Gables, FL 33134

GUSTAVO ALFONSO

LUIS SOUSA

MIKE SARDINAS

SANKAR WARIER

Engineering:

KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD,
SUITE 450
PLANTATION. FL 33324

STEFANO VIOLA

STEFANO VIOLA

954-535-5100

P.M.

Mechanical,
Plumbing and
Electrical
Engineering:

d 707 NE 3RD AVE # 200, FORT LAUDERDALE, FL 33304 954-527-1112

P.M STEVE BENDER
E.O.R. ALFRED ESQUIVEL
E.O.R. STEVE BENDER

RELIANCE ENGINEERING

10388 WEST STATE ROAD 84
SUITE 112
DAVIE, FL 33324

KIMLEY-HORN AND ASSOCIATES, INC.
600 NORTH PINE ISLAND ROAD,
SUITE 450
PLANTATION, FL 33324

954-535-5100

L.A.O.R. STEFANO VIOLA
P.M. STEFANO VIOLA

Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Current Revision Description	Revision Date
GENERAL	Jooy ED OLIFET	101101:-			
G000	COVER SHEET	12/18/17	<u> </u>	Site Plan Comments	E/02/2019
G011 G100	PROJECT INFORMATION ARCHITECTURAL SITE PLAN	12/18/17 2 12/18/17 2		Site Plan Comments Site Plan Comments	5/03/2018 5/03/2018
G 100	ARCHITECTURAL SITE PLAIN	12/10/17 2		Site Plan Comments	5/03/2016
CIVIL					
C100.0	COVER SHEET	12/18/17			
C100.1	SITE PLAN	12/18/17	2	Site Plan Comments	5/03/2018
C101.0	GENREAL NOTES	12/18/17			
C200.0	EROSION CONTROL PLAN	12/18/17			
C200.1	EROSION CONTROL DETAILS	12/18/17			
C300.0	DEMOLITION PLAN	12/18/17	2	Cita Plan Comment	F/00/00/0
C400.0	PAVING, GRADING, & DRAINAGE PLAN	12/18/17	۷	Site Plan Comments	5/03/2018
C400.1	PAVING, GRADING, & DRAINAGE DETAILS	12/18/17			
C400.2	PAVING, GRADING, & DRAINAGE CROSS SECTIONS	12/18/17	1		2/24/2040
C400.3	PAVING, GRADING, & DRAINAGE CROSS SECTIONS	03/21/18	I .		3/21/2018
C500.0	WATER AND SEWER PLAN WATER AND SEWER DETAILS	12/18/17 03/21/18	1		3/21/2018
C500.1 C500.2	WATER AND SEWER DETAILS WATER AND SEWER DETAILS	03/21/18	<u> </u> 		3/21/2018
C500.2	WATER AND SEWER DETAILS WATER AND SEWER DETAILS	03/21/18	<u> </u> 		3/21/2018
C500.3	WATER AND SEWER DETAILS WATER AND SEWER DETAILS	03/21/18	1 1		3/21/2018
C500.4	WATER AND SEWER DETAILS WATER AND SEWER DETAILS	03/21/18	<u>'</u> 1		3/21/2018
C500.5	WATER AND SEWER DETAILS	03/21/18	<u>.</u> 1		3/21/2018
C500.7	WATER AND SEWER DETAILS	03/21/18	<u>.</u> 1	+	3/21/2018
C600.0	PAVEMENT MARKING & SIGNAGE PLAN	12/18/17	· 2	Site Plan Comments	5/03/2018
C600.1	PAVEMENT MARKING & SIGNAGE DETAILS	12/18/17	_		0.00,2010
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ANDSCAPE		T T			
L000.1	TREE DISPOSITION PLAN	12/18/17	<u> </u>	O'the Plant Co.	F 10 C 10 C 1 C
L100.1	LANDSCAPE PLAN	12/18/17		Site Plan Comments	5/03/2018
L100.2	LANDSCAPE DETAILS	12/18/17	<u> </u>	Site Plan Comments	5/03/2018
L110.1	LANDSCAPE NOTES	12/18/17			
L110.2	IRRIGATION PLAN	12/18/17 05/03/18	<u> </u>	Site Plan Comments	5/03/2018
L200.1 L210.1	IRRIGATION PLAN IRRIGATION DETAILS	05/03/18 2		Site Plan Comments Site Plan Comments	5/03/2018
L210.1 L210.2	IRRIGATION NOTES	05/03/18 2		Site Plan Comments	5/03/2018
L210.2 L210.3	IRRIGATION NOTES	05/03/18 2		Site Plan Comments	5/03/2018
LZ 10.J	THE REPORT OF THE PARTY OF THE	03/03/16	_	One i lan comments	0/03/2010
LIFE SAFETY					
AL201	FIRST FLOOR LIFE SAFETY PLAN	12/18/17		Site Plan Comments	5/03/2018
AL202	SECOND FLOOR LIFE SAFETY PLAN	12/18/17	2	Site Plan Comments	5/03/2018
ARCHITECTU	JRAL .				
A201	FIRST FLOOR NEW CONSTRUCTION PLAN	12/18/17	2	Site Plan Comments	5/03/2018
A202	SECOND FLOOR NEW CONSTRUCTION / DIMENSION PLAN	12/18/17		Site Plan Comments	5/03/2018
A301	EXTERIOR ELEVATIONS	12/18/17		Site Plan Comments	5/03/2018
A302	EXTERIOR ELEVATIONS	12/18/17		Site Plan Comments	5/03/2018
A303	EXTERIOR ELEVATIONS	12/18/17		Site Plan Comments	5/03/2018
A310	3D VIEWS	12/18/17		Site Plan Comments	5/03/2018
A311	RENDERING	03/21/18			3/21/2018
A312	RENDERING	03/21/18			3/21/2018
A460	GENERATOR AND TRASH ENCLOSURE	12/18/17	2	Site Plan Comments	5/03/2018
A461	MISCELLANEOUS SITE DETAILS	12/18/17			3/21/2018
ELECTRICAL E104	SITE PHOTOMETRICS PLAN	05/03/18	<u> </u>	Site Plan Comments	5/03/2018

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33178

GUSTAVO ALFONSO AR 0017009

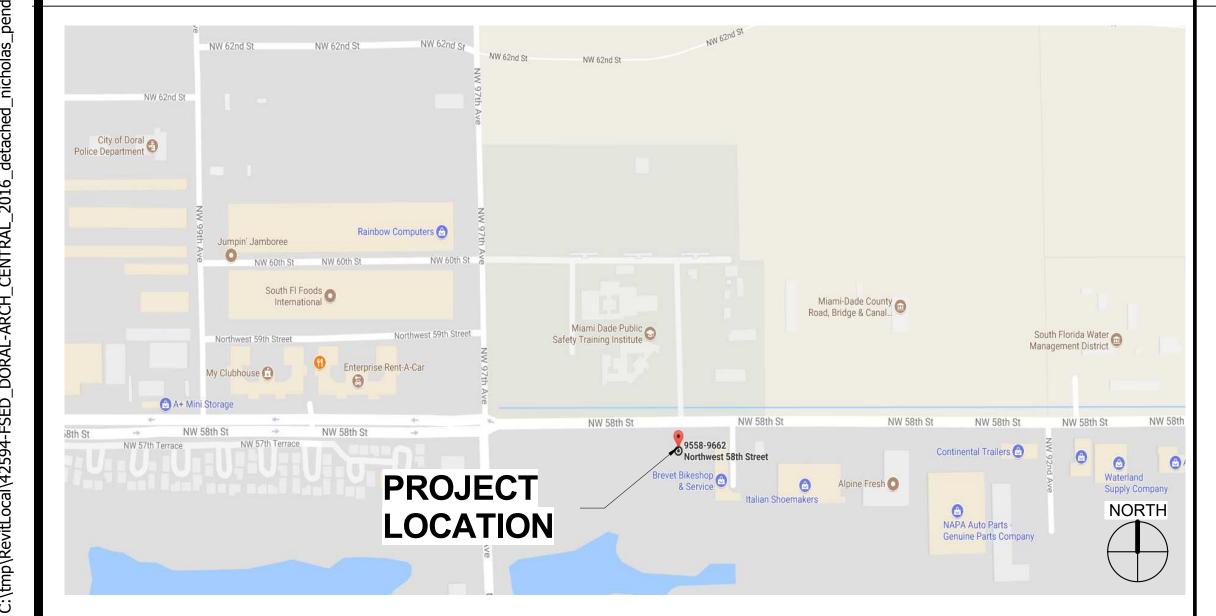
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PROJECT INFORMATION

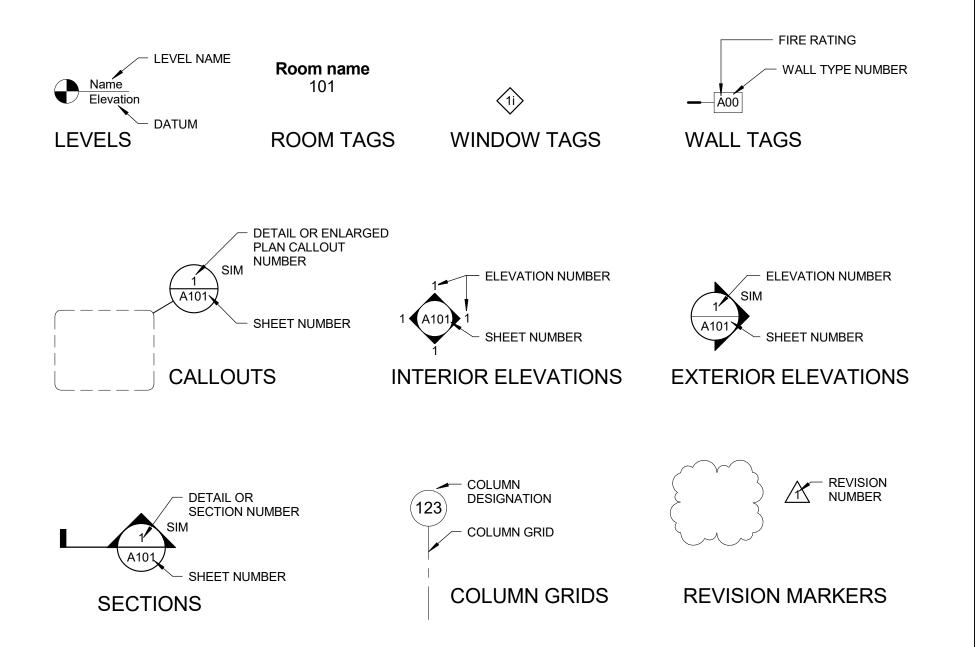
G011

PROJECT: 42594.00
DATE: May 03, 2018

VICINITY MAP



GRAPHIC SYMBOLS LEGEND





REQUIRED REAR BUILDING SETBACK @ 5'

BUILDING AREA CALCULATIONS FIRST FLOOR - APPROX. 16,255 GSF SECOND FLOOR - APPROX. 27,344 GSF OVERALL BUILDING AREA @ APPROX. 43,599 GSF PARKING CALCULATIONS BUILDING AREA (GSF) (W/O STAIR AND ELEV. SHAFTS) **PROVIDED** AHJ REQUIRED STANDARD PARKING: 1 / 300 GSF (MED./OFFICE/ PROF. BLDG) BICYCLE PARKING: 0.10/ REQ. STANDARD PARKING ADA PARKING: 5 / 101-150 STANDARD PARKING @ TWO STORIES - GSF LOADING PARKING: 1 (INSTITUTIONAL USE) YOUNG CHILD/ STROLLER PARKING: 2 / 101- 500 STANDRAD PARKING 43,599 GSF -1,964 GSF = 41,635 GSF 41,635 / 300 GSF = 138.8 = 139 TOTAL PARKING SPACES 141 TOTAL PARKING 132 STANDARD 5 ADA 134 STANDARD 2 STROLLER 2 STROLLER +14 BICYCLE +14 BICYCLE +1 LOADING (DELIVERY PARKING) +2 AMBULANCE +1 LOADING

REQUIRED INTERIOR SIDE SETBACK @ 5'

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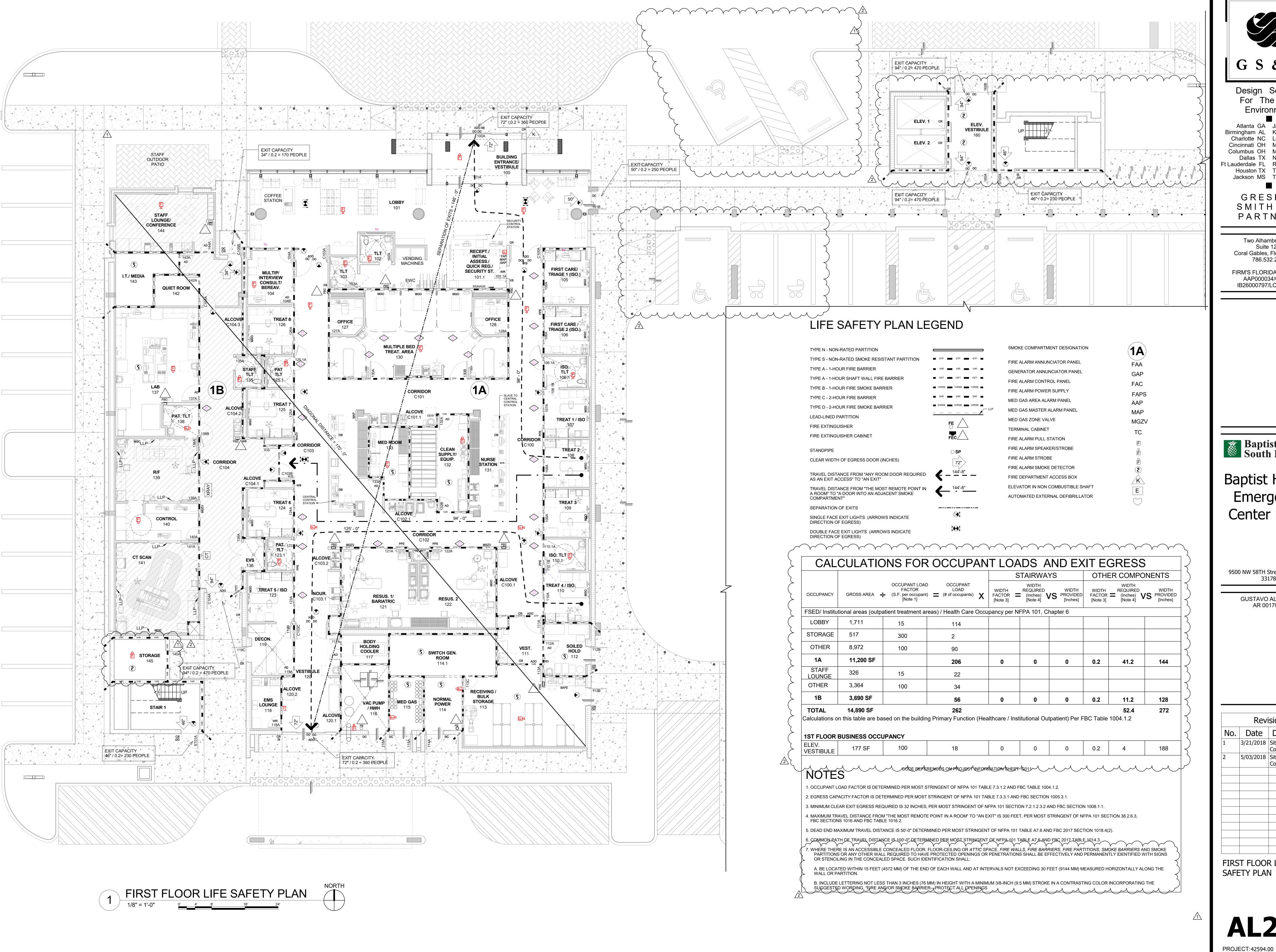
DATE: May 03, 2018

mmm

ARCHITECTURAL SITE PLAN

1/16" = 1'-0"

0'___8' 16' 32' 48'



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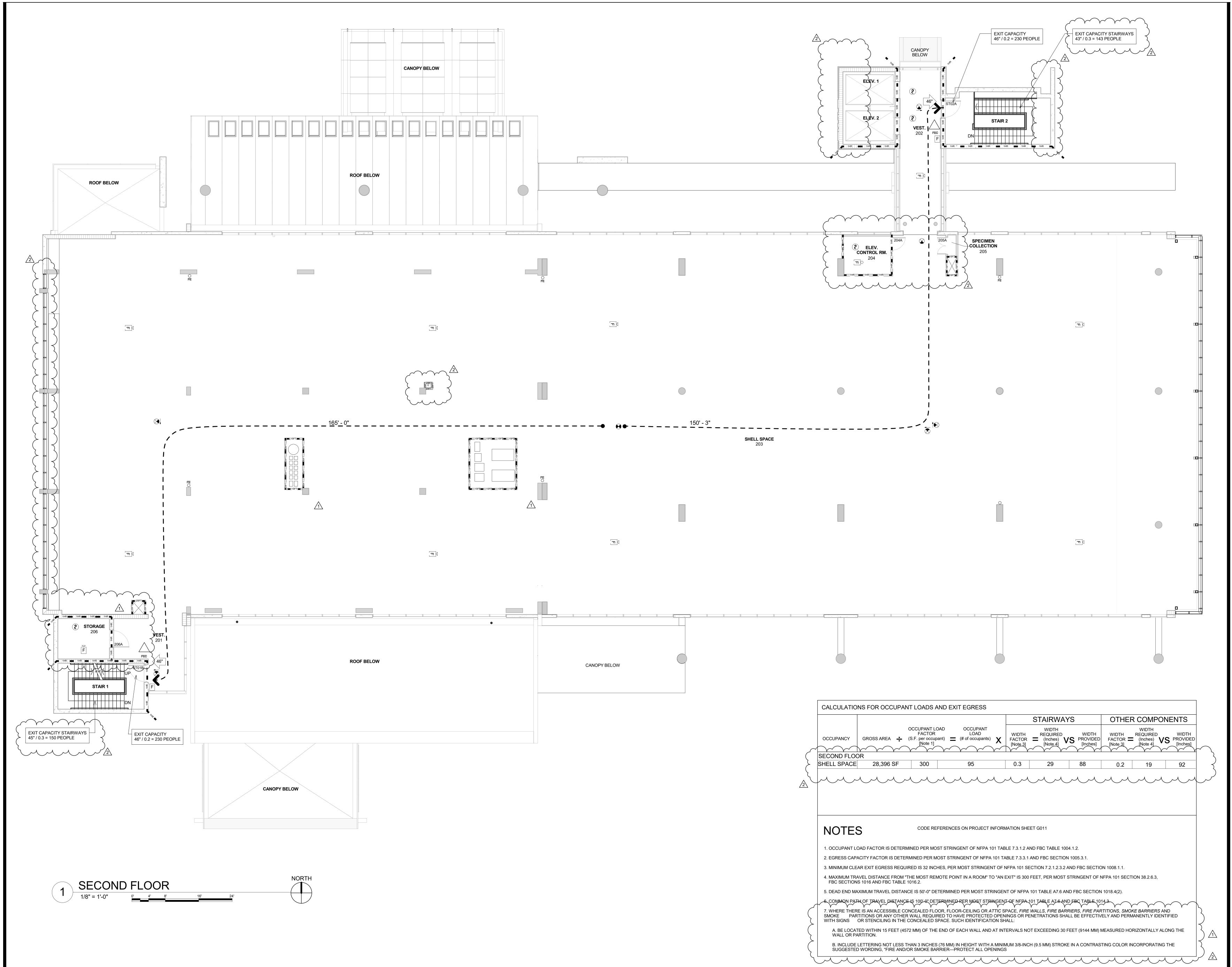
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AR 0017009

Revision Date Description 3/21/2018 | Site Plan 5/03/2018 | Site Plan

FIRST FLOOR LIFE SAFETY PLAN

DATE: May 03, 2018



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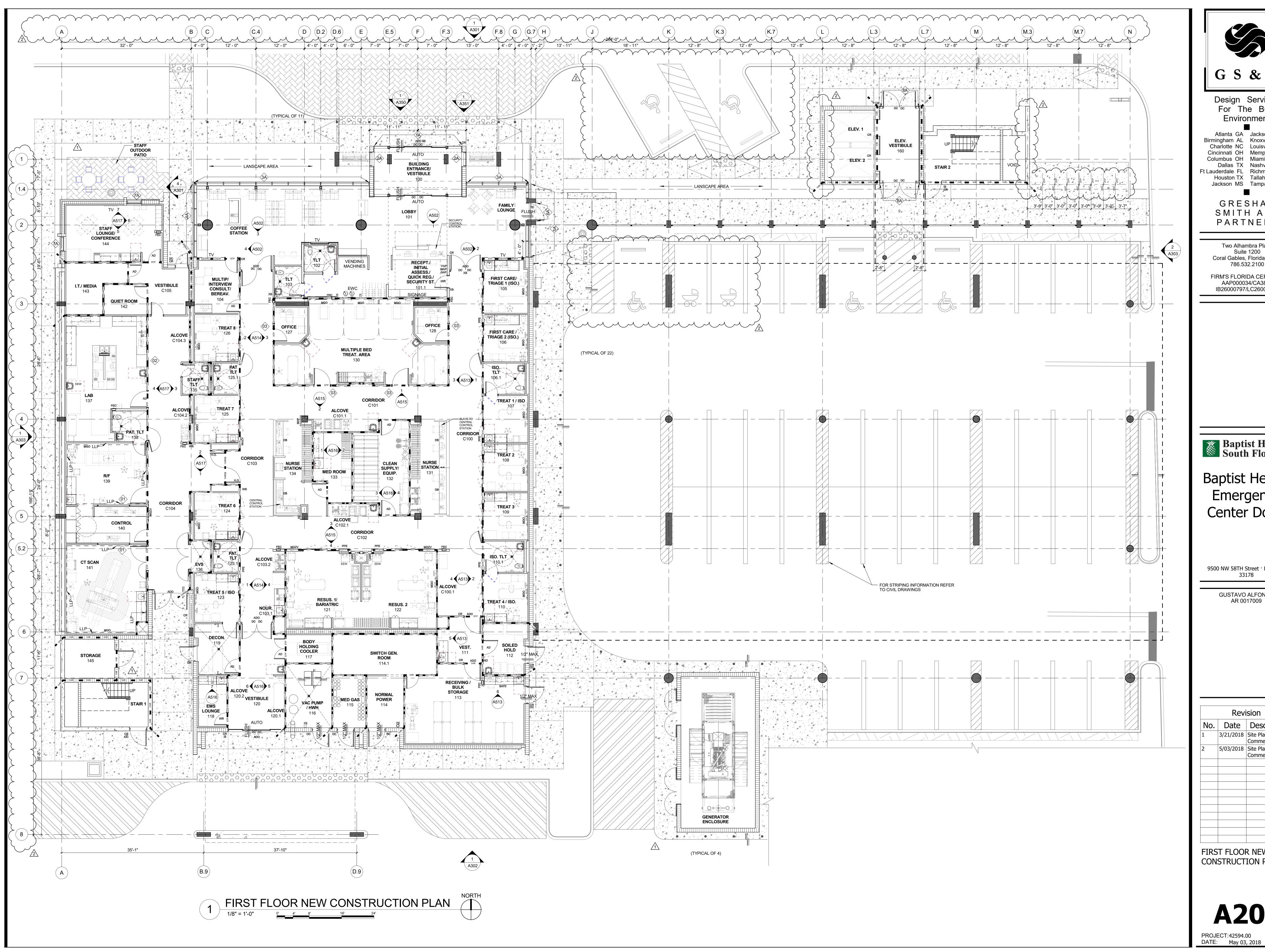
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SAFETT PLAIN

PROJECT:42594.00 DATE: May 03, 2018





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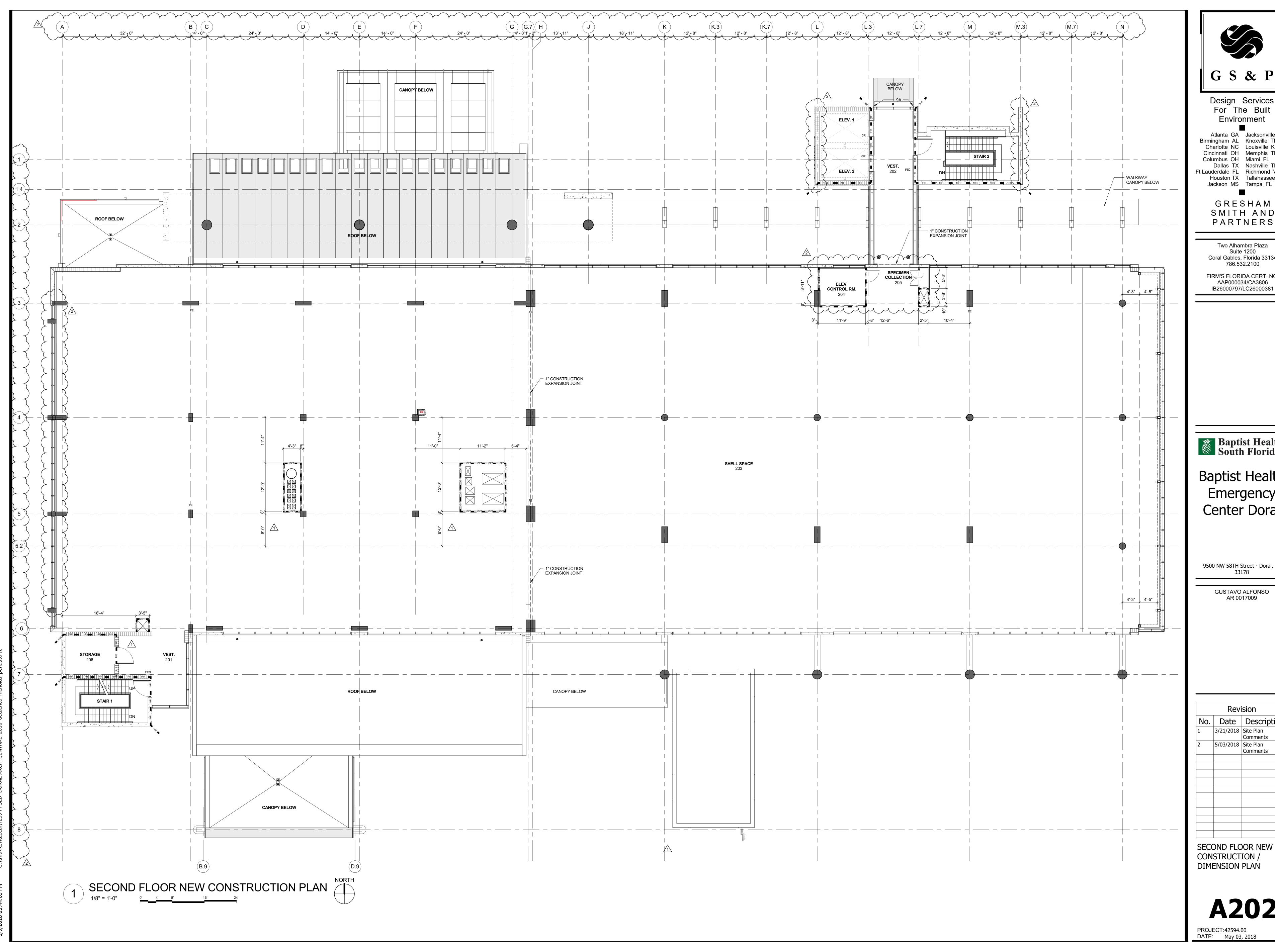
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FIRST FLOOR NEW CONSTRUCTION PLAN

A201



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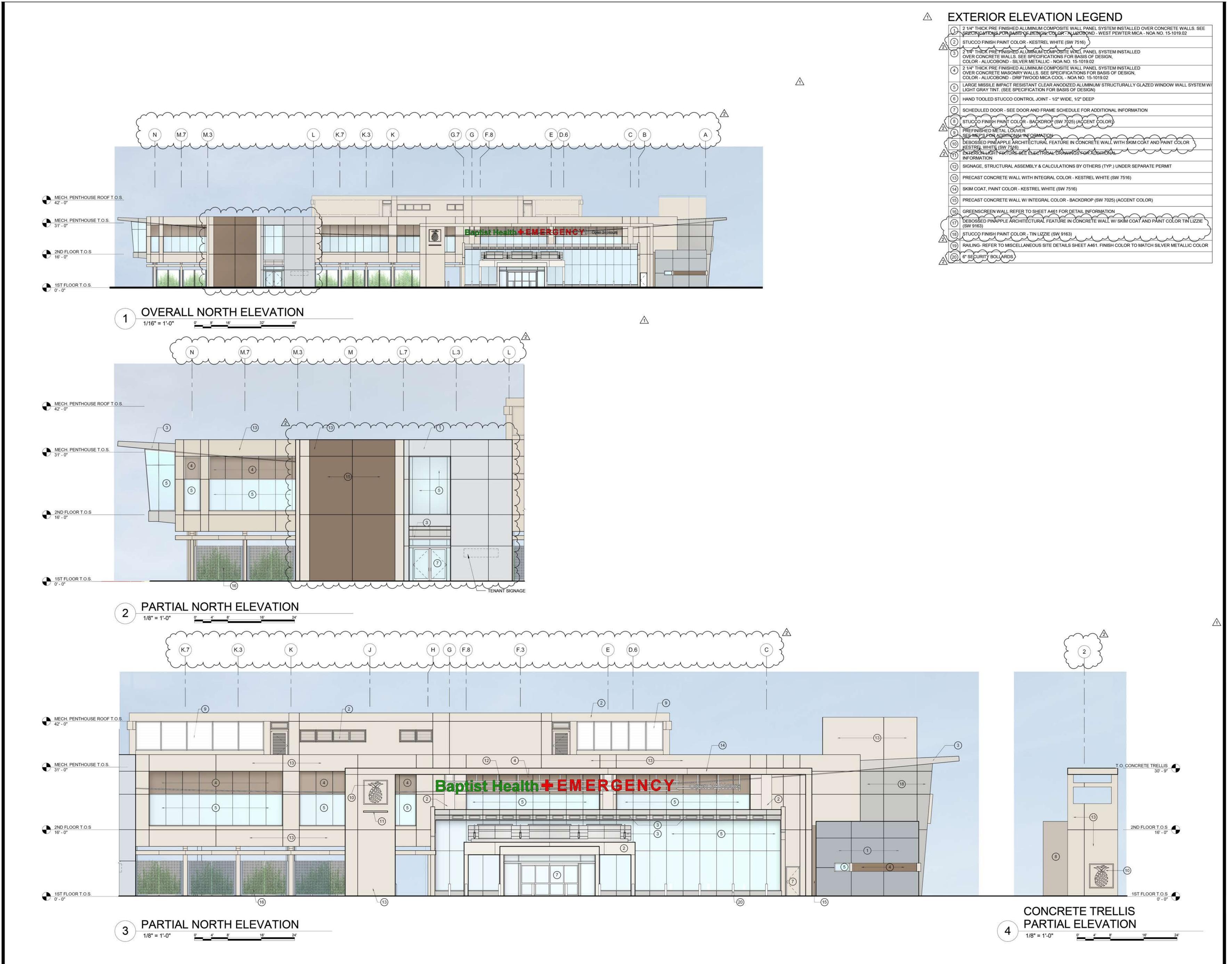
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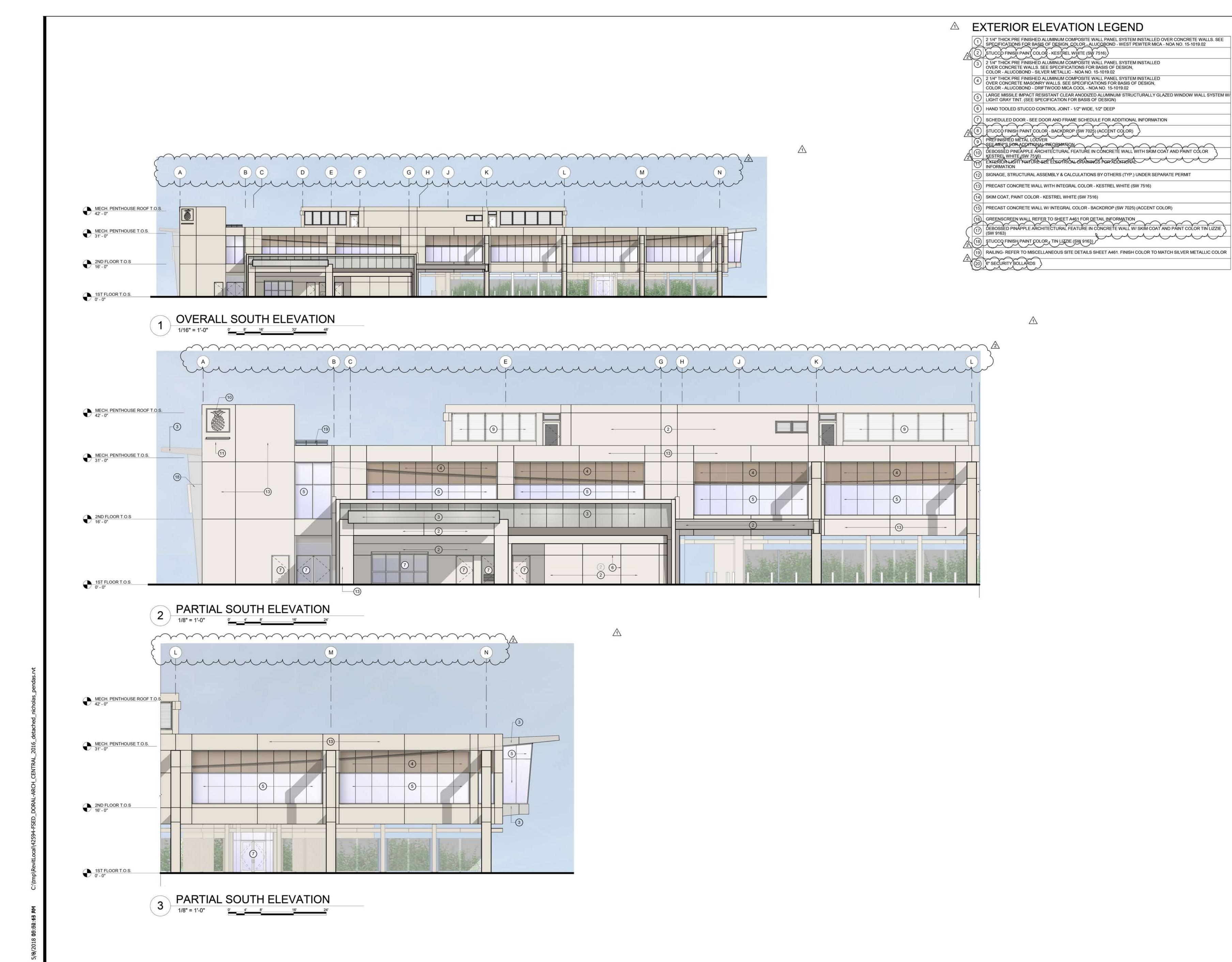
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Comments

EXTERIOR ELEVATIONS

A301

PROJECT:42594.00 DATE: May 03, 2018



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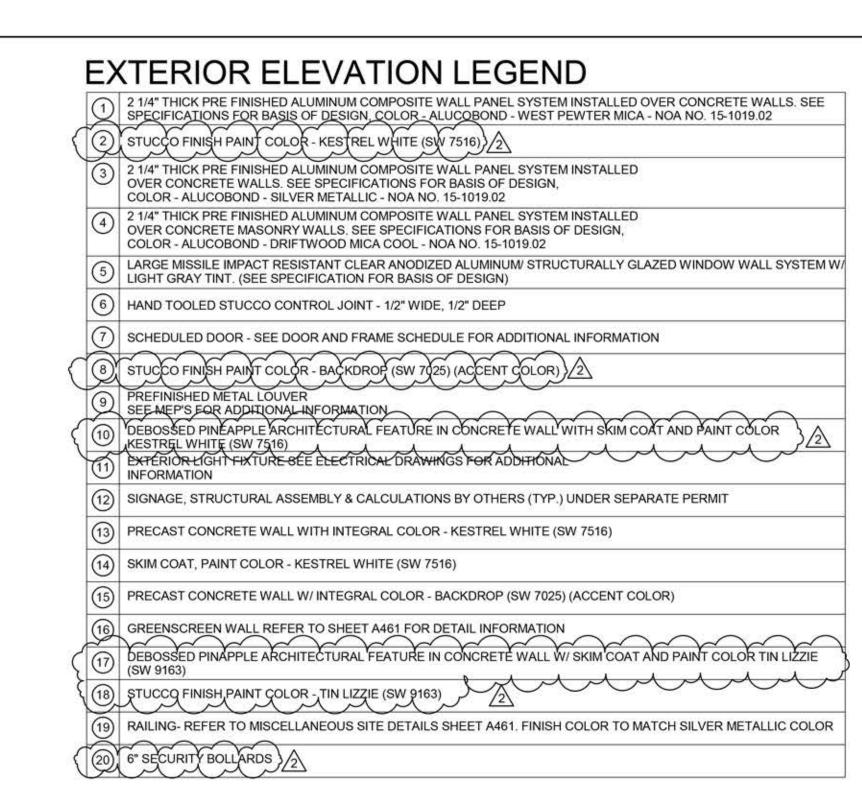
2 5/03/2018 Site Plan Comments

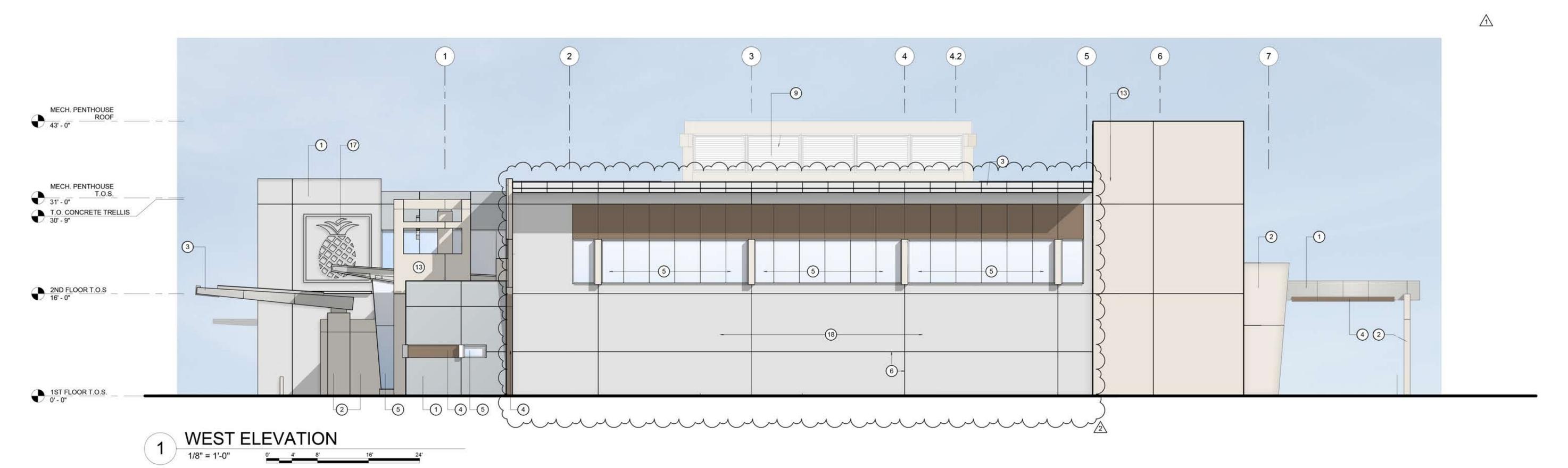
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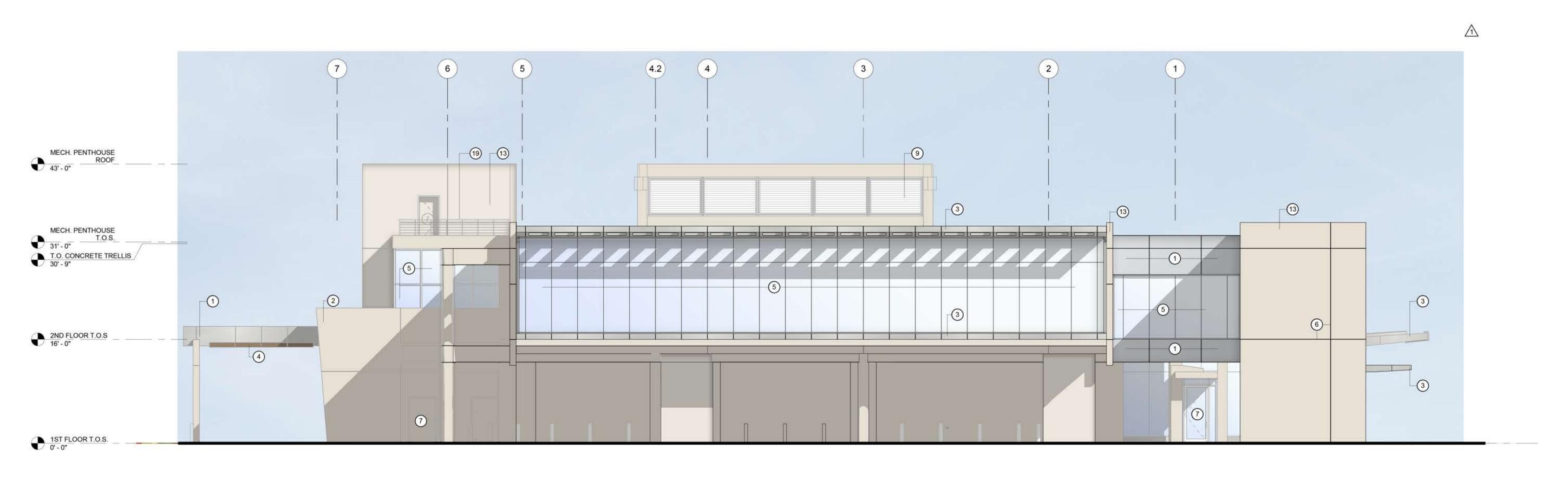
EXTERIOR ELEVATIONS

A302

PROJECT:42594.00 DATE: May 03, 2018







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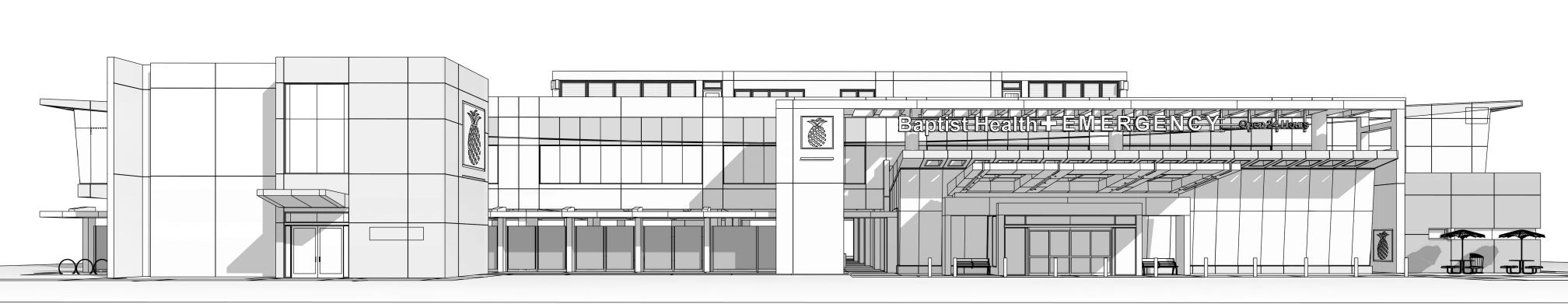
2 5/03/2018 Site Plan Comments

EXTERIOR ELEVATIONS

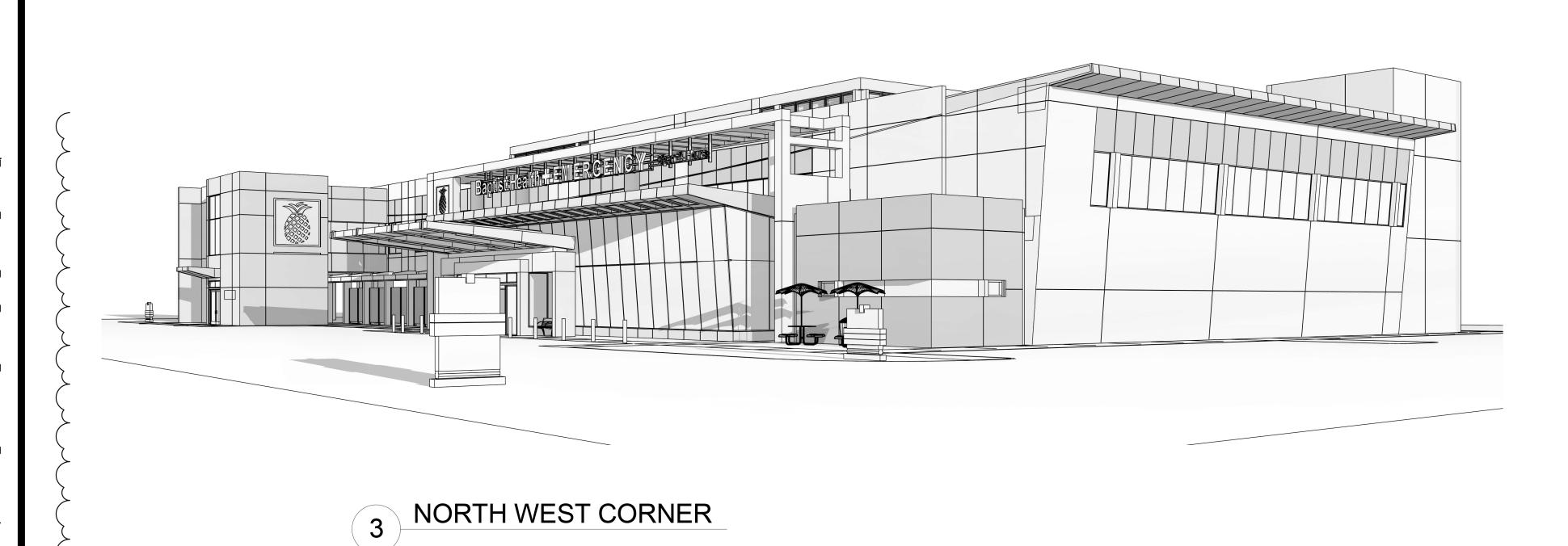
A303

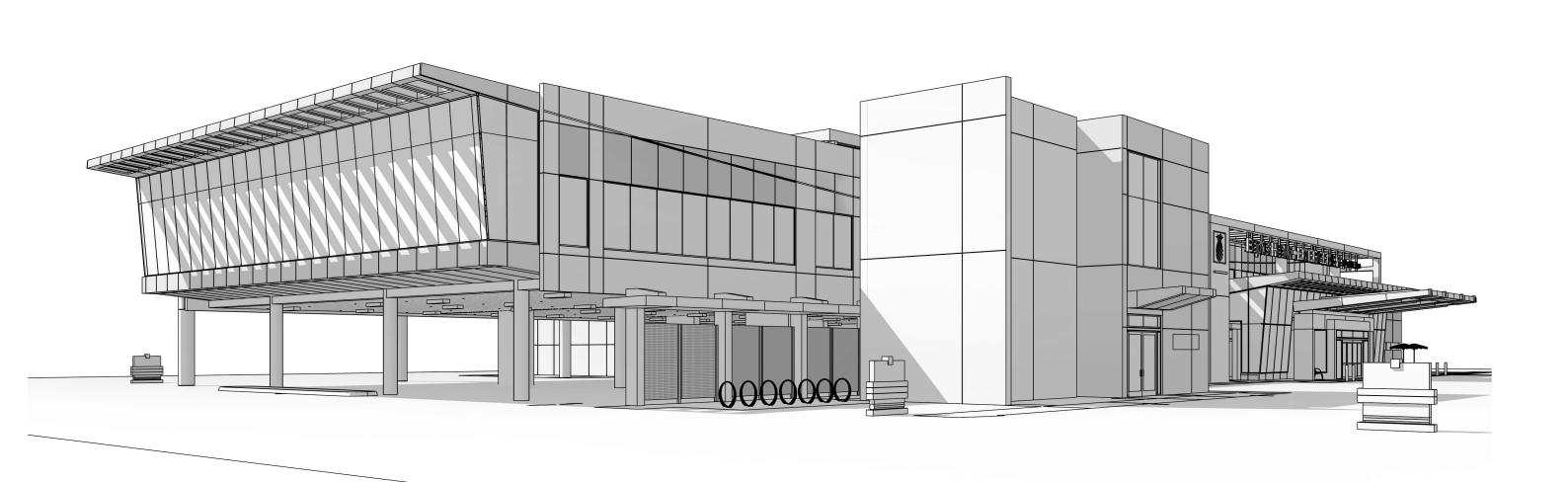
PROJECT: 42594.00
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2 NORTH





4 NORTH EAST CORNER

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3D VIEWS

A310

PROJECT: 42594.00
DATE: May 03, 2018





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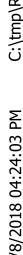
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A311

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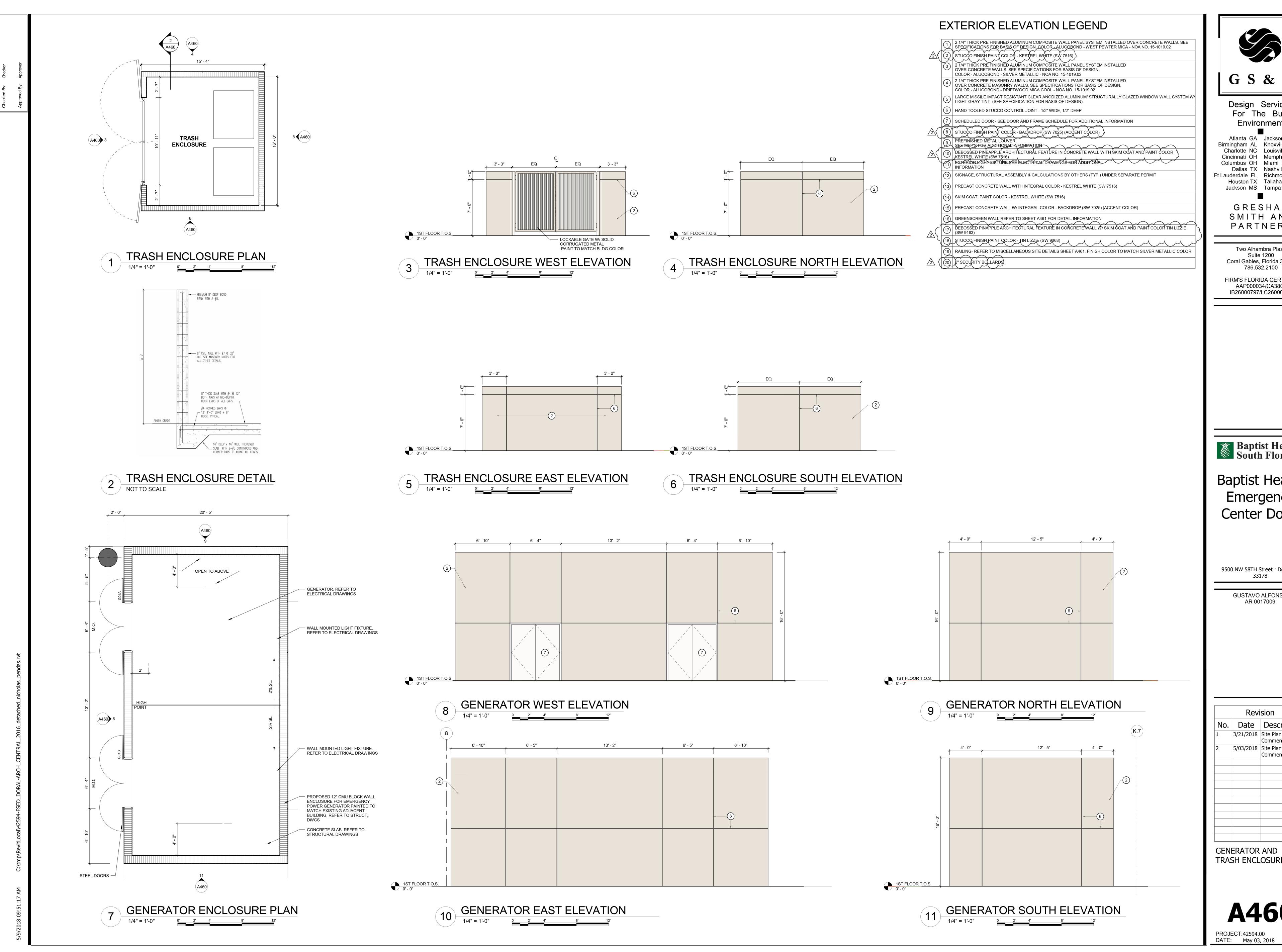
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RENDERING

A312



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GUSTAVO ALFONSO AR 0017009

Revision Date Description 3/21/2018 Site Plan Comments 5/03/2018 | Site Plan Comments **GENERATOR AND** TRASH ENCLOSURE

Annapolis™ Security Bollard Available in 6" and 12" diameter. 6" dia. security bollard may be specified with

Smart solar-powered LED light. Security bollard is designed to be permanently embedded with a reinforced footing and internal concrete/steel reinforcement. Details for an optional security footing available on our website at www.landscapeforms.com

ANNAPOLIS



 Metal is finished with Landscape Forms' proprietary Pangard II[®] polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling Call for standard color chart.

 Choose 6" or 12" diameter embedded style, 6" surface mount style, or 6". Specify with or without lighting based on the following guidelines: 6" embedded and surface mount, available with hard wired or solar powered lighting; 6" removable only offered with solar lighting; 12" embedded only offered with hard wired lighting.

Landscape Forms, Inc. warrants all products (other than noted exceptions) ears from date of invoice. Noted exceptions: LED lighting products are

warranted for six years.

		BASELS CHICESON IN THE			
Battery		valve regulated lead-acid	F)		
Nominal Battery Voltage		6 volts			
Capacity		7.0 amp-tr at 20-hr discharge rate -40°F to 116°F			
Temperature Range					
Maximum Operation		14 hours			
	STYLE	DIAMETER	HEIGHT	PRODUCT WEIGHT	
	6'	6'	33,	Surface Mount: 47bs Embedded: 90bs Removable: 107bs	
	12*	12	33*	Embedded: 200bs	
30		6' femova	ble bollard		
9		protective sleeve			
9		lighted bolard top			

TYPICAL BOLLARD DETAILS

LANDSCAPE FORMS **AUSTIN BENCH** BACKED BENCH WITH DIVIDER AND ARMS



POWDER COATED FINISH TO MATCH RENOBOND FINISH

(SILVER METALLIC)

SLEEVE ANCHOR, 5/6-18 THREAD HEX HEAD WITH STAIMLESS STEEL WASHER Recommended Procedure for Surface Mounting - NOTE: All Cantilevered benches must be surface mounted

Backless or Backed Freestanding Bench - Surface Mounting Option Concrete must be 4" thick minimum, no extra thickening is required for the freestanding surface mount bench

See following pages for footing and slab recommendations. Prepare proper footing or slab as required. **Note:** Installation on an unknown pre-existing concrete is not recommended. Landscape Forms is not responsible for footing or slab installation. Landscapeforms recommends that concrete be reinforced and rated at 3,000 PSI minimum and has at least

- 3/8 X 3 (DRILL DIA. X LENGTH)

28 days of curing before installing benches. Place unit in desired position. Note: DO NOT DRAG bench across concrete or other rough surfaces. This could damage the powdercoat on

If surface mounting a bench with a freestanding support – remove the nylon glide from the bottom of the leg. If the mounting surface is not level use stainless steel shims or washers to level bench before tightening anchors. Failure to level bench before anchoring may cause damage to the bench supports or not allow the anchor to work properly. Be careful not to damage the finish.

B. Mark anchor locations through holes provided in the base plate. 4. Move unit to allow access for drilling holes.

5. Although anchoring procedure and hardware are the responsibility of the installer, Landscape Forms suggests using corrosion resistant anchors (sometimes called bolt anchors), and stainless steel washers. See Anchor Mounting Details on the following pages. 6. Drill for the anchors at the marked positions.

7. Blow the holes clear of debris and dust using compressed air. 8. Place unit in desired position and install the sleeve anchors. Tighten as recommended by anchor manufacturer.

9. Periodically check fasteners and tighten if required.

TYPICAL SITE BENCH DETAIL

NOT TO SCALE

LANDSCAPE FORMS **AUSTIN LITTER RECEPTACLE** SIDE OPEN



Drill holes at marked locations according to anchor manufacturer's specification. 5. Complete the anchor installation according to the anchor manufacturer's instructions. FOR SURFACE MT 2 PLACES FOR LOCK OPTION: Austin litter receptacle locks are keyed alike. Each receptacle is shipped with two keys. The key can be removed in both the locked and unlocked position. Leave the door unlocked (key horizontal) when the door is open. The door will not latch when the key is in the vertical position. POWDER COATED FINISH TO MATCH RENOBOND FINISH (SILVER METALLIC)

3 TYPICAL TRASH RECEPTACLE DETAIL

NOT TO SCALE

- Jointing Sand, conforms to ASTM C144 polymer or mortar adhered paver on top (provide min 1" overhang on each perimeters, turn up against curb - 1" Bedding Layer, conforms passing 0.080 mm 2 x #4 Rebar aggregate base. Asphalt or be used over weak or saturated subgrade soils - Geotextile separation fabric on entire bottom of Minimum length equal — to base thickness aggregate base (extends beyond curb) according to recommendations in the geotechnical report Design Notes:

1. Cross section as shown is suitable for pedestrian or commercial plaza use only. Paver dimensions subject to aspect and plan ratio requirements (an increased thickness is required where traffic loading such as maintenance or emergency vehicles exist).

Depth of base subject to site specific conditions (traffic loading, soil conditions, groundwater levels, climatic conditions). Designed by others. Additional drain holes may be required depending on the size of the pavement area. The rule of thumb is to have at least one drain hole per 500 square feet of surface area. Storm drains should be used at low spots. Drain pipes may be required within the aggregate base depending on the permeability of the subgrade soils. Verify drainage needs with the geotechnical engineer. Ensure drain pipes are able to daylight via gravity flow to surface, or connect to catch basin.
 Ensure the geotextile above the drain hole has good drainage characteristics and is not prone to clogging. Belgard Standard Paving Detail 877-235-4273 Plaza Sand Set on Aggregate Base 6" x 12" 60 mm, 80 mm 80 mm 101.6 mm 101.6 mm 60 mm 101.6 mm

National Colors Contact your local Belgard representative for additional colors available in your region. HERRINGBONE 6 × 17

Manufacturing processes generate various finishes that are distinctive and can create the exact look you desire for your project. All processes are not available in all locations. Check with your local Belgard Sales Representative for more information.

STANDARD (SMOOTH) Unit surfaces and micro-chamfers are carefully molded using a high-quality precision machined steel shoe assembly which creates units with an extremely smooth surface and precision detailed chamfer.

7 TYPICAL PAVER DETAIL

NOT TO SCALE

12 x 24

Texture/Finishes

mounting options

ELEVATION

Freestanding, Horizontal Shown below are typical installation details for horizontal freestanding panels.

 3" THICK greenscreen® PANEL, TYP. - #5133X SNAP CLIPS SHOWN POST TO POST CENTERS = PANEL LENGTH + 4", TYP. POST CAP 5137 / 5139. POST TO POST CLEAR = PANEL LENGTH + 1" TYP. 5104/5105. RECOMMENDED AT HORIZONTAL PANEL MAXIMUM UP TO 96" IN 2" INCREMENTS #5133X SNAP CLIPS w/ (2)STAINLESS STEEL TEK SCREW, TYP. NO PANEL TRIM REQUIRED @ VERTICAL EDGE W/5133X SNAP CLIP OPTIONAL: 5141 "C" CLIP w/5105 EDGE TRIM @ VERTICAL EDGES (REQUIRED) USE 5142 + 5136 SPACER FLEX "C" RING OPTIONAL. 3" ROUND OR SQUARE TUBE STEEL POST HORIZONTAL PANELS FINISH GRADE POST IMBED LENGTH & FOOTING SIZE SHOULD BE VERIFIED BASED ON OVER-5105 STEEL EDGE TRIM ALL HEIGHT, WINDLOADS & RECOMMENDED @ BOTTOM SOIL CONDITIONS. NOTE: SPECIFIC ENGINEER-ING MAY BE REQUIRED BASED ON SITE SPECIFIC SOIL CONDITIONS, LOCAL WIND LOADS, AND VERTICAL HEIGHT OF FENCE/SCREEN.

greenscreen 1743 S. La Cienega Blvd. Los Angeles CA 90035 T - 800.450.3494 www.greenscreen.com

GREENSCREEN FREE STANDING DETAIL

35 COLLECTION Product Data Sheet



• Loop bike rack is a simple, sweeping circle with a twist. Both functional and sculptural. • Cyclists can loop and lock one or two bikes around its shape-shifting cast • The aluminum casting, finished with Pangard II® powdercoat, is offered in a selection of colors. Must be embedded to a concrete surface.

• Bike racks must be placed 30" apart, and 24" from wall; see installation guide. • Meets APBP guidelines. Metal Finishes

 \bullet All metal is finished with Pangard II®, offered exclusively by Landscape Forms, a 19-step program of cleaning, priming, and powder coating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants. Call for standard color chart. Recycled Content • Loop has a recycled content of 97%, and is 100% recyclable.

Specify collection name and product name.

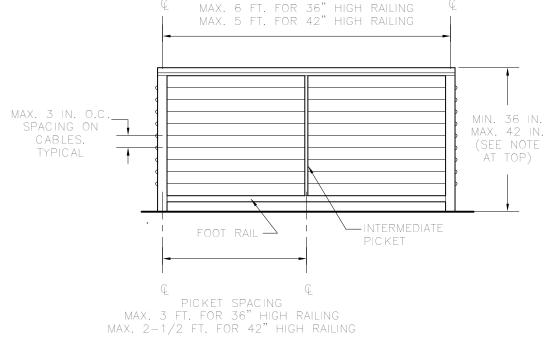
Specify powdercoat color.

To Specify

NOTE: VERIFY PANEL SPAN AND CLIP SPACING FOR ALL ROOFTOP INSTALLATIONS AND ALL INSTALLATIONS 20'

STYLE DEPTH LENGTH HEIGHT PROD

FEENEY ARCHITECTURAL PRODUCTS ALUMINUM RAIL WITH HORIZONTAL CABLE INFILL POST SPACING MAX. 6 FT. FOR 36" HIGH RAILING



ELEVATION 300 CAP RAIL-END —/ COVER PLATE 9/16"

HANDRAIL END CAP DETAIL

HAND RAIL END CAP SECTION

BIKE RACK DETAIL

EXTERIOR RAILING DETAILS

PHILIPS G GARDCO Site & Area C(U) us PureForm 32" housing Philips Gardco PureForm luminaires combine LED performance excellence and advanced LED thermal management technology with a distinct purity of style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. PureForm is defined by its high performance, sleek low profile design and rugged construction. Dimensions - Standard Arm (A1) Effective Projected Area ft2 / m2 Mounting Single Twin @ 180 3/4 Mounting Approx.Weight A1 040/0038 080/0.075 1.65/0.154 A1 57 lbs / 25.865 kg A2 0.35 / 0.033 0.70 / 0.066 1.45 / 0.135 A2 56 lbs / 25.402 kg A3 0.55/0.052 1.10/0.103 2.0/0.186 A3 60.5 lbs / 27.443 kg - 8 --MA 57 lbs / 25.865 kg MA 0.40 / 0.038 N/A N/A 40.53" / 102.946 cm Wor WS 58 lbs / 26,309 kg FIXTURE POLE TO BE MOUNTED AT 20' HIGH. A = 0.53" Maximum Profile (All Models) 16.586 cm A = 6.53° 20.3° / 51.562cm - 16.586 cm

TYPICAL LIGHT POLE DETAIL

Baptist HealthSouth Florida

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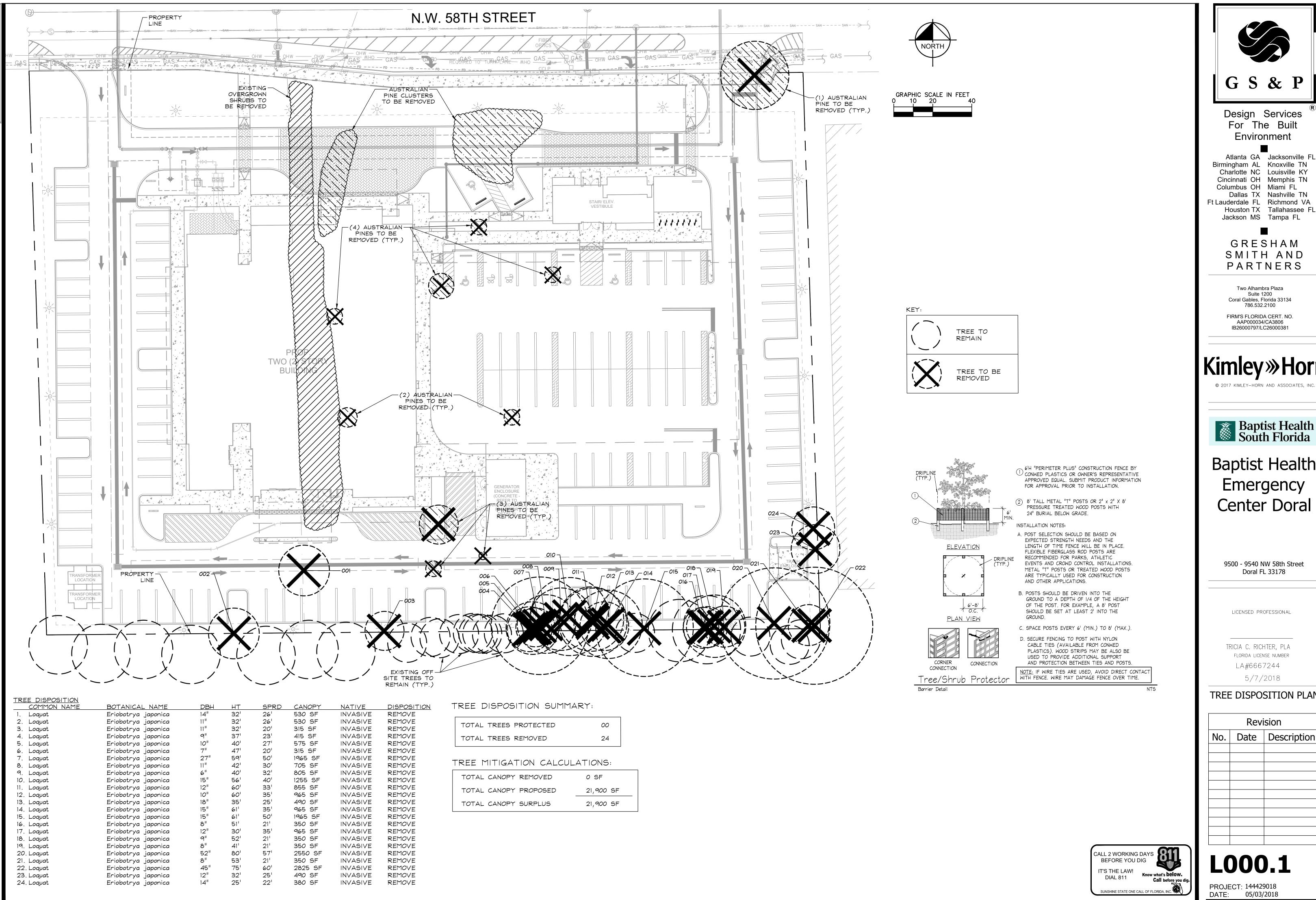
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GUSTAVO ALFONSO AR 0017009

Revision Date Description 3/21/2018 Site Plan Comments

MISCELLANEOUS SITE **DETAILS**

PROJECT: 42594.00 DATE: May 03, 2018



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FIRM'S FLORIDA CERT. NO. AAP000034/CA3806 IB26000797/LC26000381



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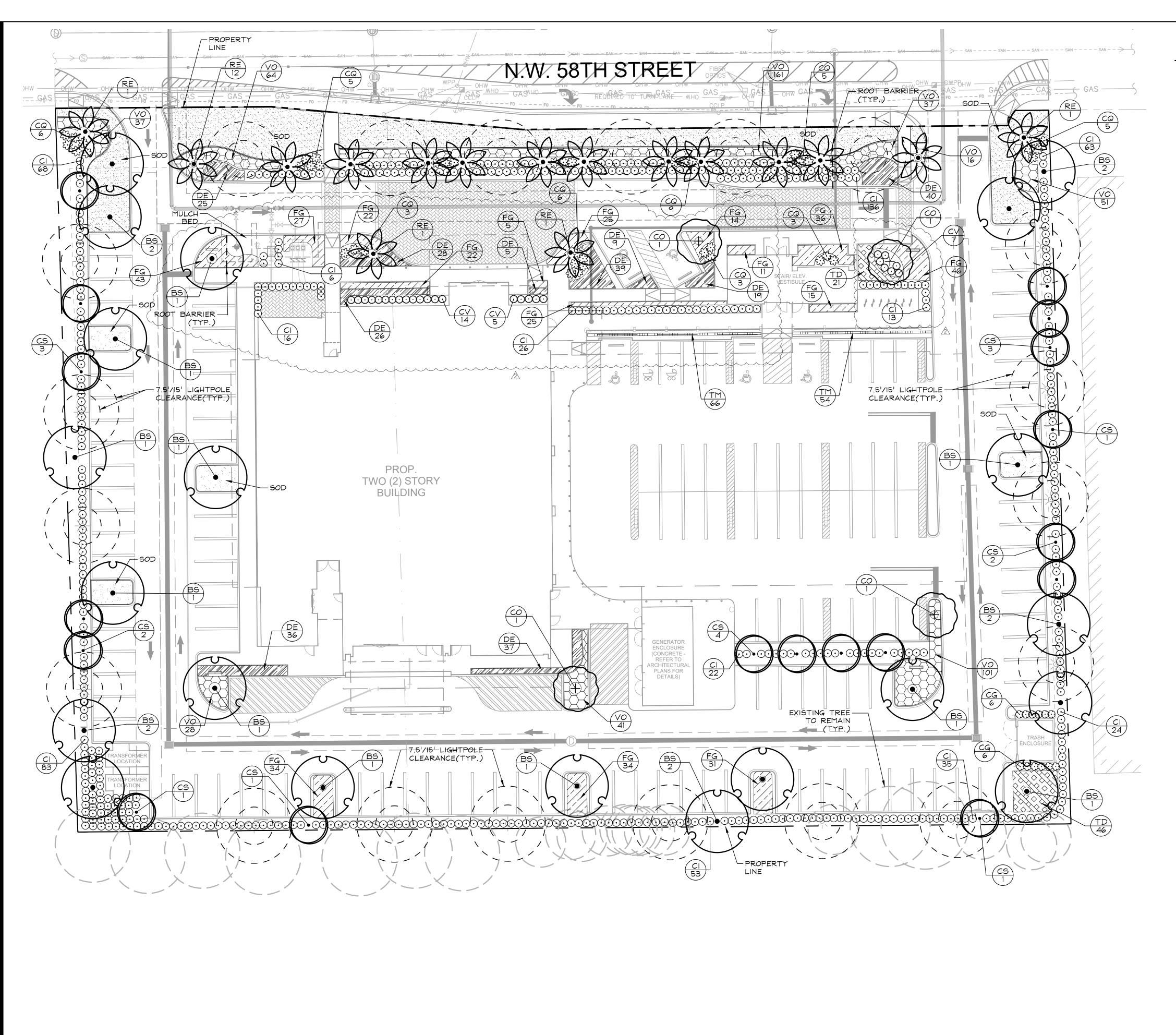
TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

TREE DISPOSITION PLAN

5/7/2018

	Rev	ision
No.	Date	Description

L000.1





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

LANDSCAPE PLAN

Revision			
No.	Date	Description	
\triangle	03.21.2018	SITE PLAN COMMENTS	
<u> </u>	05.03.2018	SITE PLAN COMMENTS	

L100.1

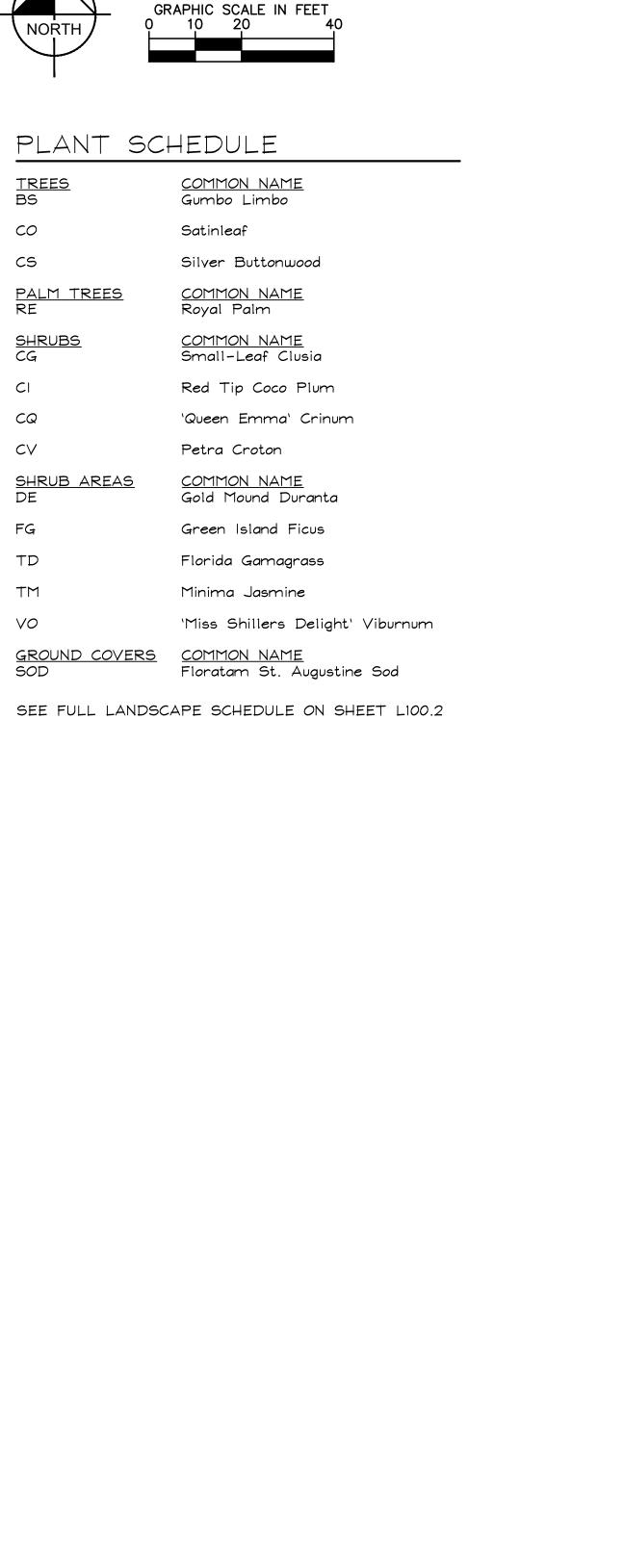
PROJECT: 144429018 DATE: 05/03/2018

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Checked By: CF

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

X PROVIDED AT PERMITTING

CITY OF DORAL LANDSCAPE LEGEND Zoning District: CORRIDOR COMMERICAL Net Lot Area: <u>2.61</u> acres <u>113,764</u> square feet OPEN SPACE REQUIRED PROVIDED A. Square feet of open space required by zoning district as indicated on site plan: Net lot area= $\frac{113,764}{50}$ square feet x $\frac{20}{50}$ %= $\frac{22,752}{50}$ square feet 24,560 LAWN AREA CALCULATION A. Total square feet of landscaped open space required by zoning district= B. Maximum lawn area (St. Augustine sod) permitted= ____20__ %x_22,752 square feet= 4,437 4,551 TREES A. The number of trees required per net lot acre $(minus\ existing)$ less the existing number of trees that meet minimum requirements = <u>22</u> trees x net lot acreage= B. 30% palm trees allowed (three palms=one tree) Palms provided= C. Percentage of native trees required = the number of trees provided x 30% = D. Street trees (max. average spacing of 30' o.c.): 350 linear feet along street/30= Palms as street trees (max. average spacing 25° o.c.): 350 linear feet along street/25= $\frac{14}{14}$ E. Street trees located directly beneath power lines (maximum average spacing of 25' o.c.): N/A linear feet along street/25= F. Total number of trees provided= A. The total number of trees required x 10 = the number of shrubs required B. The number of shrubs required x = 30% = the number of native shrubs required

IRRIGATION PLAN: Required by Section 71-4.

PLANTING NOTES:

- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- 2. 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.
- 3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
- 4. 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.
- 5. 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.
- 6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
- 7. 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.
- 8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

CODE REQUIREMENTS		
SITE AREA: 113,764 SF (2.61 ACRES) IMPERVIOUS AREA: 89,204 SF (2.05 AZONING: 6400 COMMERCIAL - CENTRAL PERVIOUS AREA: 24,560 SF (0.56 AC		
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:	EAST: 2 SHADE TREES 2 UNDER. TREES 20 SHRUBS	EAST: 2 SHADE TREES 2 UNDER. TREES 20 SHRUBS
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	SOUTH: 2 SHADE TREES 2 UNDER. TREES 20 SHRUBS	SOUTH: 2 SHADE TREES 2 UNDER. TREES 20 SHRUBS
WEST BUFFER: COMMERCIAL (7) - PROPOSED COMMERCIAL (6) = DESIGN TYPE #1 REQUIRED: 3 SHADE TREES, 3 UNDERSTORY TREES, 30 SHRUBS	WEST: 2 SHADE TREES 2 UNDER. TREES 20 SHRUBS	WEST: 2 SHADE TREES 2 UNDER. TREES 20 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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LANDSCAPE PLAN

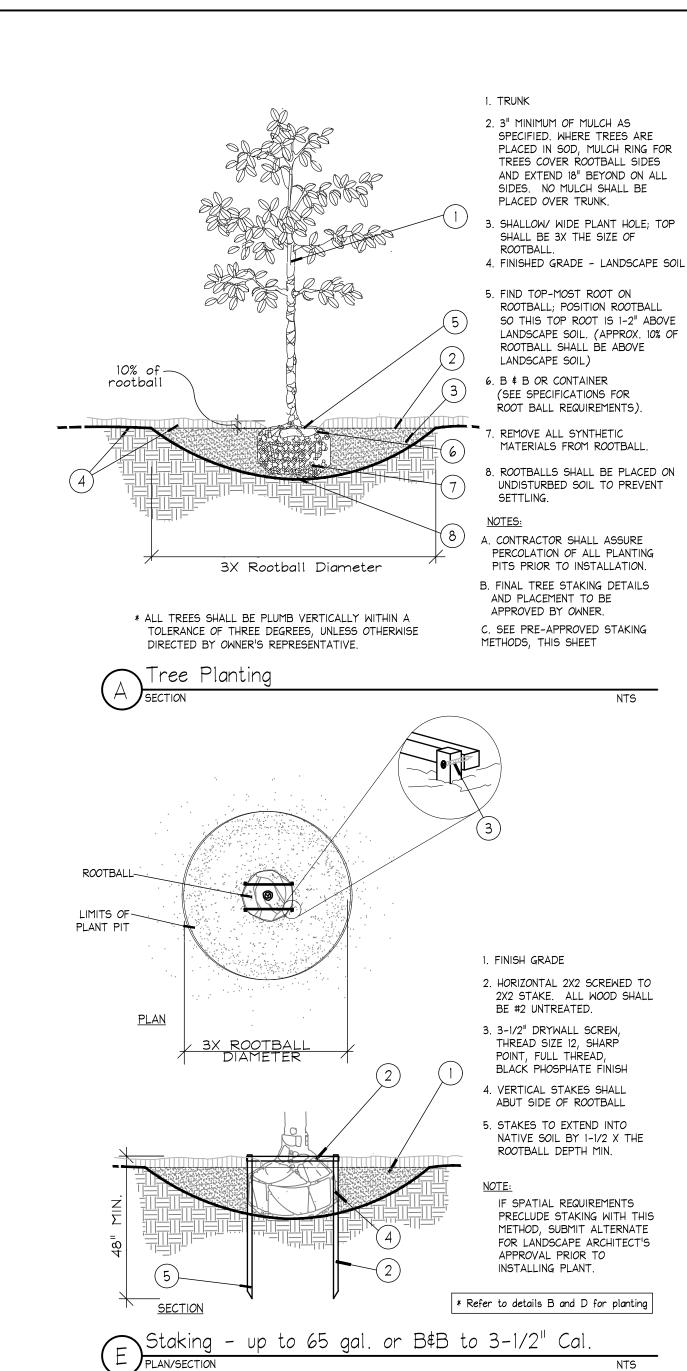
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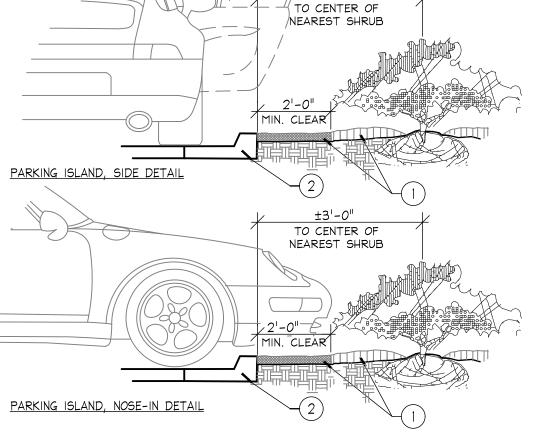
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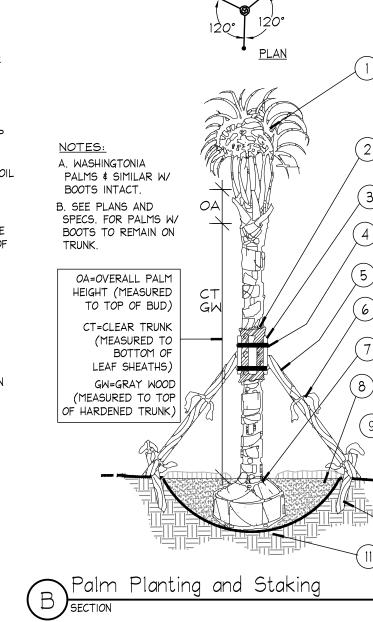




1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY

2. CURB OR PARKING LOT EDGE, BY OTHERS

Parking Space/Curb Planting



24" (MIN) TO CENTER

*O*F TRUNK

Plantings Adjacent to Buildings

. MINIMUM OF NINE (9) GOOD PALM FRONDS; PRUNE AND TIE FRONDS WITH HEMP TWINE. SABAL PALMS TO BE SELECTIVELY "HURRICANE CUT", LEAVING ONLY NEWLY-EMERGING GROWTH. 2. 5 LAYERS OF BURLAP TO PROTECT TRUNK.

3. FIVE (5) 18"L, 2X4 WOOD BATTENS. UNTREATED, #2 4. SECURE BATTENS WITH TWO (2) 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED PROPORTIONATELY TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.

5. THREE (3) 8'L 2X4 SUPPORTS. NAIL (DRILL AND NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. PALMS SHALL BE PLUMB VERTICALLY UNLESS OTHERWISE NOTED.

6. PROVIDE FLAGGING AT MIDPOINT AND BASE OF SUPPORTS. 7. TOP-MOST ROOT SHALL BE VISIBLE AT THE SURFACE OF

THE ROOTBALL, SLIGHTLY ABOVE SURROUNDING GRADE. 8. 3" SPECIFIED MULCH 9. FINISH GRADE 10. 24"L (MIN.) 2X4 P.T. WOOD STAKES, NAIL TO SUPPORT

. PREPARED PLANTING SOIL AS SPECIFIED 12. ALTERNATE PALM ANCHORING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE

PRE-APPROVED SYSTEMS: *BROOKS TREE BRACE SYSTEM *ARBOR TIE TREE BRACING 1. FIVE (5) LAYERS OF BURLAP TO

PROTECT TRUNK 2. TWO STEEL BANDS TO SECURE

BATTENS

3. FIVE 2 X 4 X 18"L WOOD BATTENS 4. THREE (3) 2" X 8' LODGE POLES. DRILL, USING GALVANIZED SCREWS TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE FLAG AT MIDPOINT AND AT BASE.

10. 2" x 4" x 3' (MIN), P.T. WOOD STAKES BURIED 3" BELOW FINISHED

7. FINISHED GRADE (SEE GRADING PLAN)

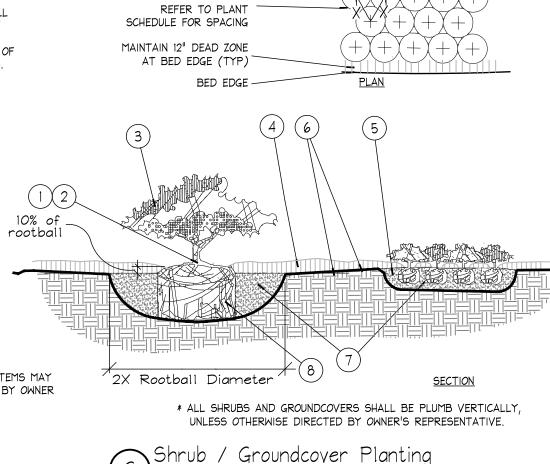
A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE. B. FINAL TREE STAKING DETAILS AND

PLACEMENT TO BE APPROVED BY C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FO WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S

REPRESENTATIVE PRE-APPROVED SYSTEMS: *BROOKS TREE BRACE SYSTEM *ARBOR TIE TREE BRACING D. RUBBER HOSE/WIRE SYSTEMS ARE NOT

ALLOWED. * Refer to details B and D for planting Flarge Tree Staking - 100 Gal + or B\$B 4" +

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



BEST FACE OF SHRUB/

GROUNDCOVER TO FACE

FRONT OF PLANTING BED.

NOTES:

NECESSARY.

2. TOP 10% OF SHRUB AND

ON SIDES WITH SOIL.

UNIFORM MASS/HEIGHT.

1. FIND POINT WHERE TOPMOST ROOT

SURFACE. CLEAR EXCESS SOIL IF

GROUNDCOVER ROOTBALLS TO BE

PLANTED ABOVE THE LANDSCAPE

3. PRUNE ALL LIKE SHRUBS WITHIN A

PLANTED MASS TO ACHIEVE A

4. 3" MINIMUM MULCH AS SPECIFIED .

DO NOT COVER ENTIRE SHRUB

ROOTBALL OR CREATE WATER

RINGS' ONLY COVER SIDES OF

5. EXCAVATE ENTIRE BED SPECIFIED

6. FINISHED GRADE (SEE GRADING

PREPARED PLANTING SOIL AS

COVERS AND SHRUBS USED IN

MASSES, ENTIRE BED TO BE

8. SCARIFY ROOTBALL SIDES

1. FINISH GRADE

SPECIFIED.

2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS

LAYER THICKNESS SO TOP

3. FILTER CLOTH, MIRAFI

500X OR BETTER

4. 12" CLEAN SAND, COMPACTED. ADJUST

AS SPECIFIED.

AND BOTTOM.

SPECIFIED. NOTE: WHEN GROUND-

AMENDED WITH PLANTING SOIL MIX

ROOTBALL WITH MULCH

FOR GROUNDCOVER BED.

GRADE. DO NOT COVER EXPOSED 10%

EMERGES FROM TRUNK WITHIN 2" OF

ROOTBALL~ LIMITS OF -SHRUB PIT

OF ROOTBALL IS AT LEAST 1" ABOVE FINISHED GRADE. 5. SLOPE BOTTOM TO DRAIN 6. ±18" Ø AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF

> PERCOLATION. 7. BACKFILL WITH 1/2" - 3/4" GRAVEL. 8. WATER TABLE. (DEPTH VARIES)

7' TO ASSURE PROPER

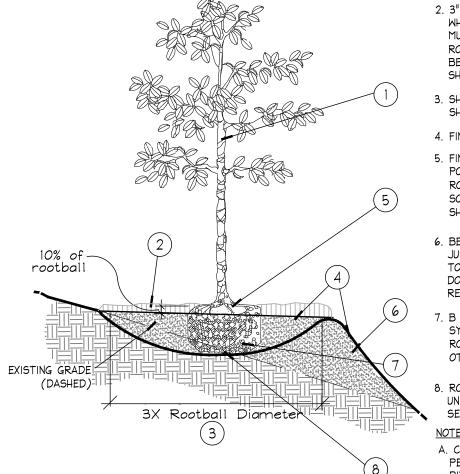
FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL

ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT. REFER TO NOTE 0.3 OF

WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.



SECTION



* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A

DIRECTED BY OWNER'S REPRESENTATIVE.

Planting on a Slope

TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE

(15 GAL OR GREATER) SHALL BE PLANTED IN SIMILAR MANNER 2. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18" BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK. . SHALLOW/ WIDE PLANT HOLE; TOP

1. TREES, PALMS, AND LARGE SHRUBS

SHALL BE 3X THE SIZE OF ROOTBALL. 4. FINISHED GRADE - LANDSCAPE SOIL

5. FIND TOP-MOST ROOT ON ROOTBALL POSITION ROOTBALL SO THIS TOP ROOT IS 1-2" ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL) 6. BERM SOIL SO THAT TOP OF BERM IS JUST BELOW THE TOP 10% OF THE

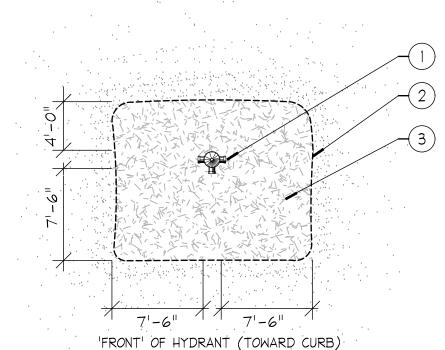
TOP OF THE ROOTBALL. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE. 7. B & B OR CONTAINER REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL. (SEE SPECIFICATIONS FOR OTHER ROOT BALL REQUIREMENTS)

8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

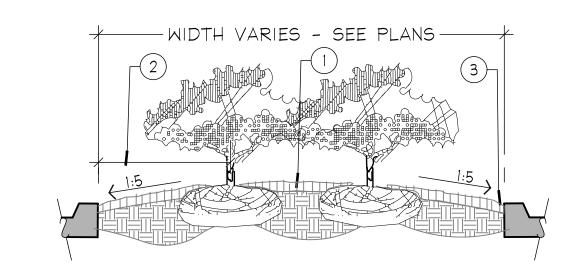


1. FIRE HYDRANT

2. NO PLANT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.

3. PROVIDE A MULCH, 3" DEPTH MIN., SURROUNDING AREA INDICATED.





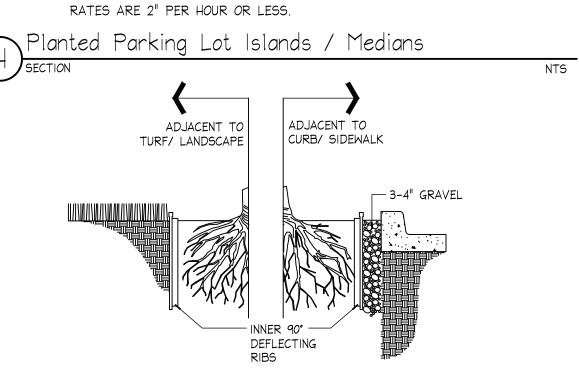
PLANTER ISLAND NOTES

CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS). CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. SEE DETAIL 'I' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.

3. I" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

 EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.

PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP). ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION



ROOT BARRIER BY: Century Root Barrier (714)632-7083 (or) DeepRoot (800)458-7668

LINEAR APPLICATION

(or approved equal)

SIZE: 36" D MATERIAL: POLYETHYLENE WITH ULTRAVIOLET INHIBITORS

THICKNESS: .085 IN. (min.) NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2. INSTALL AS REQUIRED, PER PLAN NOTES. 3. SUBMIT PRODUCT DATA FOR APPROVAL.

Root Barrier Barrier Detail

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LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

5/7/2018

LANDSCAPE DETAILS

	Revision					
No.	Date	Description				

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
- 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

PRODUCT DATA

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 MISSHAPEN 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

222112111 01 111111	
MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY)
	CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS.
	INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA

STAKING/GUYING FOR ALTERNATE TO DETAILS: SEND PRODUCT DATA, DETAIL

2. PLANT MATERIALS

HERBICIDE

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 EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH.
- 3. <u>SAND</u> 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

AUTHORITY.

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

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

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 ("WILTPRUF" 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.

J. CONTAINER GROWN STOCK

- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR
- 2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
- 4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

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
- 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 POCKETS 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 ACHEIVE 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 WEIGHING 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 REGRADING 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.

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.

S. 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

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.

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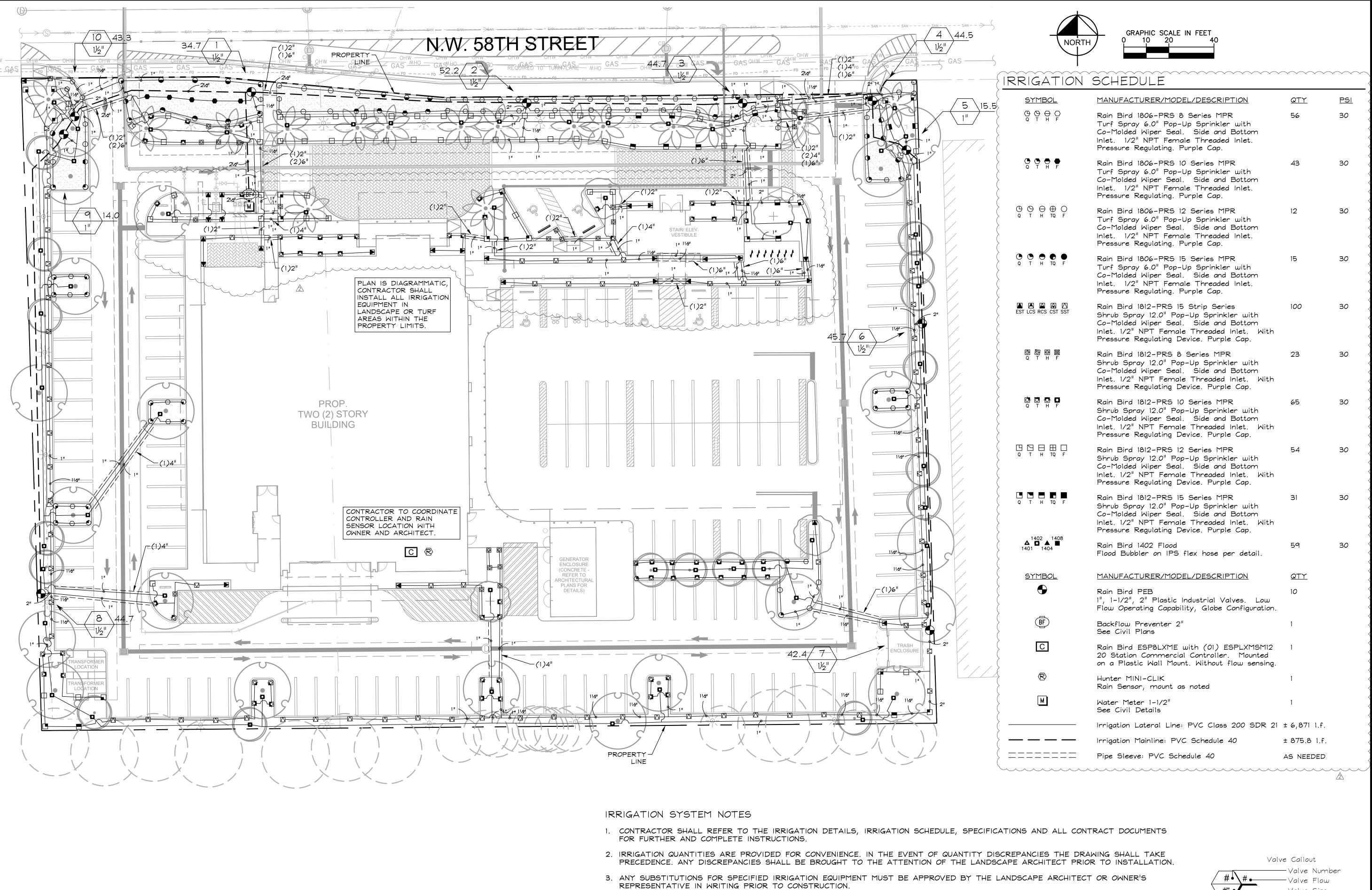
LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

5/7/2018

LANDSCAPE NOTES

Revision				
No.	Date	Description		





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

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LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

IRRIGATION PLAN

5/7/2018

	Revision			
No.	Date	Description		
\triangle	03.21.2018	SITE PLAN COMMENTS		
<u> </u>	05.03.2018	SITE PLAN COMMENTS		

Sleeve Callout

(#) #" Sleeve Size

REFER TO DETAILS AND

NOTES ON SHEETS L2.10-L2.12

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— Number of Sleeves

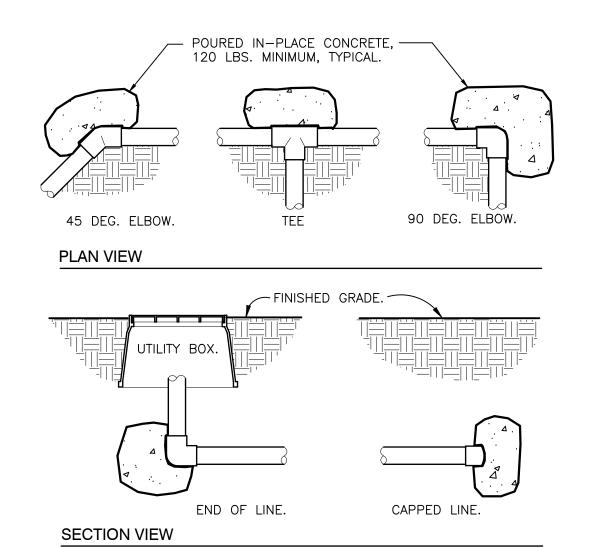
Know what's below.

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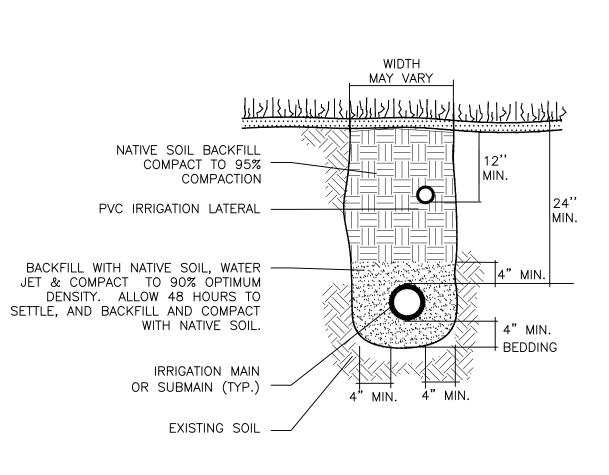
PROJECT: 144429018 DATE: 05/03/2018

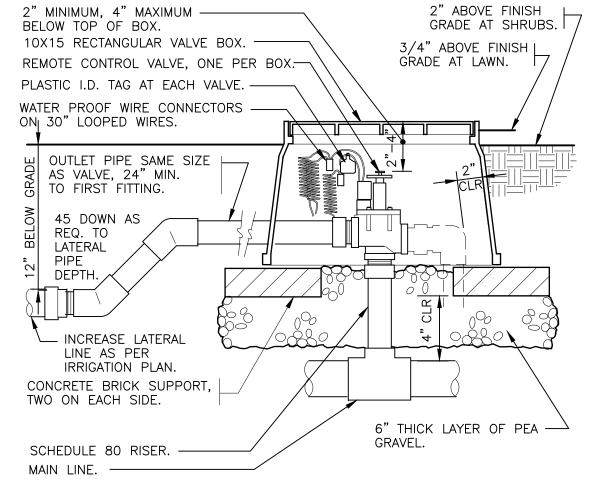
- 4. CONTRACTOR SHALL FIELD ADJUST LOCATION OF IRRIGATION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- 5. 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.
- 6. 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.

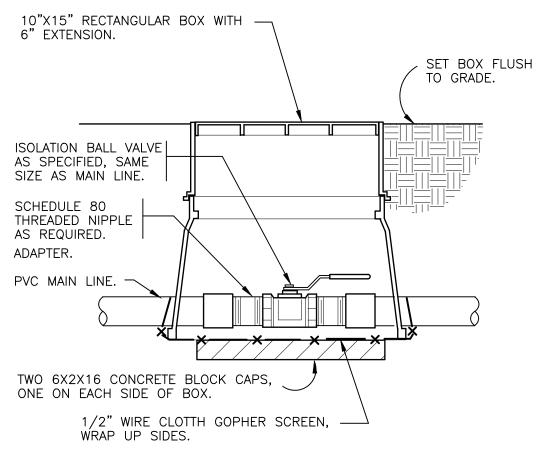
SPRAY HEAD DESIGN PRESSURE: 30 PSI BUBBLER DESIGN PRESSURE: 30 PSI



BOX









VALVE BOX LID, — HEAD BRAND

10X15 STANDARD BOX.-

LOOP, BUNDLE, AND

LABEL SPARE WIRES

1/2" WIRE CLOTH GOPHER -

TWO 6X2X16 CONCRETE —

PROTECTION SCREEN,

BLOCK CPAS, ONE ON

WRAP 6" UP SIDES.

EACH SIDE OF BOX.

THAT ARE TO

CONTINUE, AS

OCCURS.

"J BOX" ON LID WITH 2" HIGH LETTERS. TRENCHING DETAIL NOT TO SCALE

32 8409.76-03

ELECTRIC REMOTE CONTROL VALVE

BRASS BALL ISOLATION VALVE

786.532.2100 32 8406.33-02

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IB26000797/LC26000381

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LICENSED PROFESSIONAL

328409.13-02

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

5/7/2018

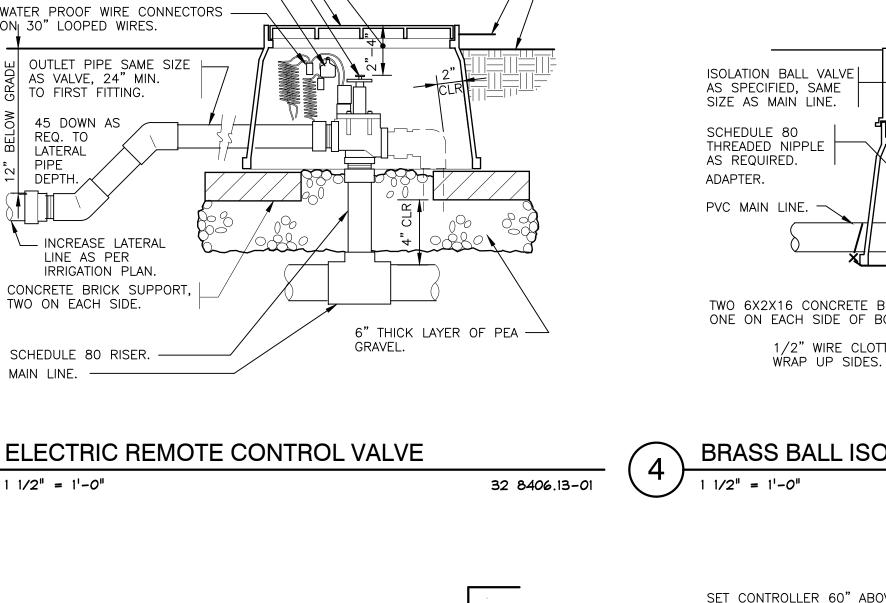
IRRIGATION

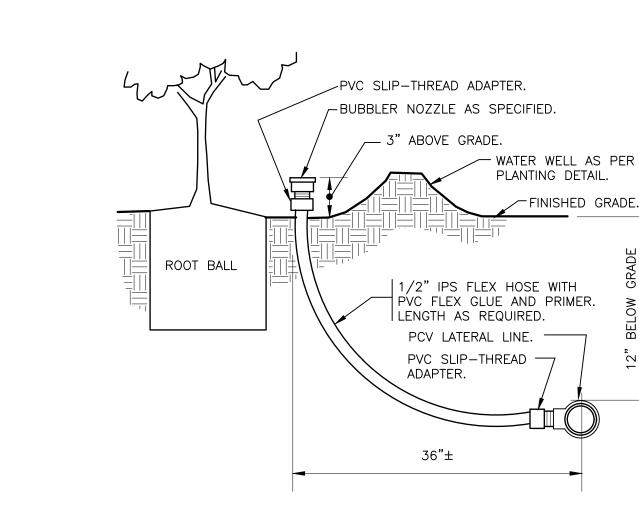
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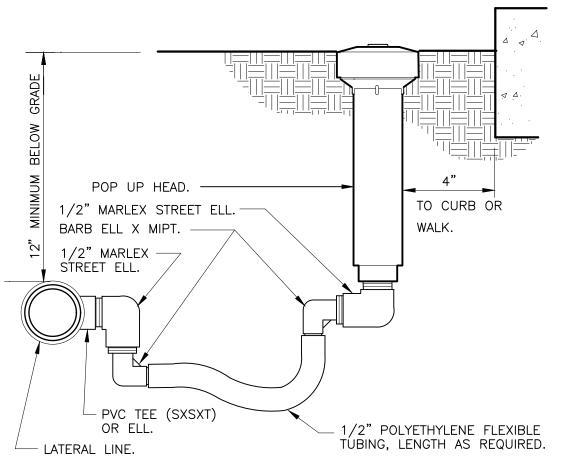
PROJECT: 144429018 DATE: 05/03/2018

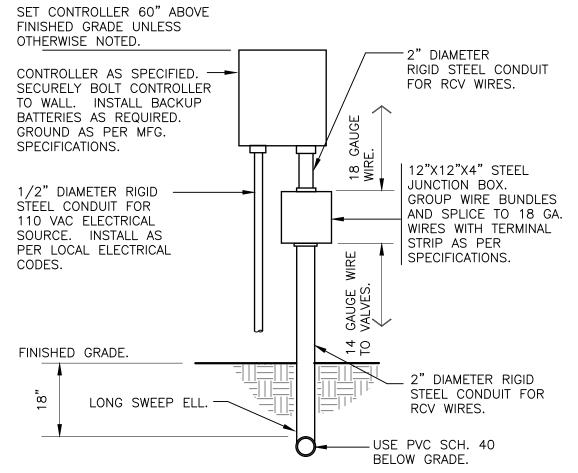
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.











32 8409.79-01

32 8409.76-01

SET BOX 2" ABOVE -7

GRADE AT SHRUBS.

SET BOX FLUSH TO 7

SPARE WIRES THAT ARE TO TERMINATE AT THIS

AND I.D. TAG.

BOX: COIL 30" LENGTH

WIRES TO CONTROLLER

MAIN LINE AS OCCURS.

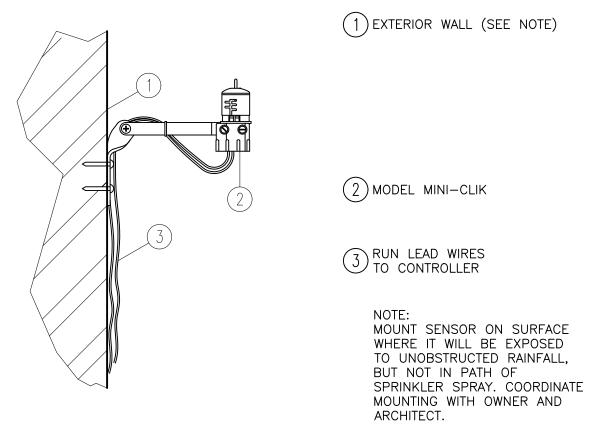
GRADE AT LAWN.

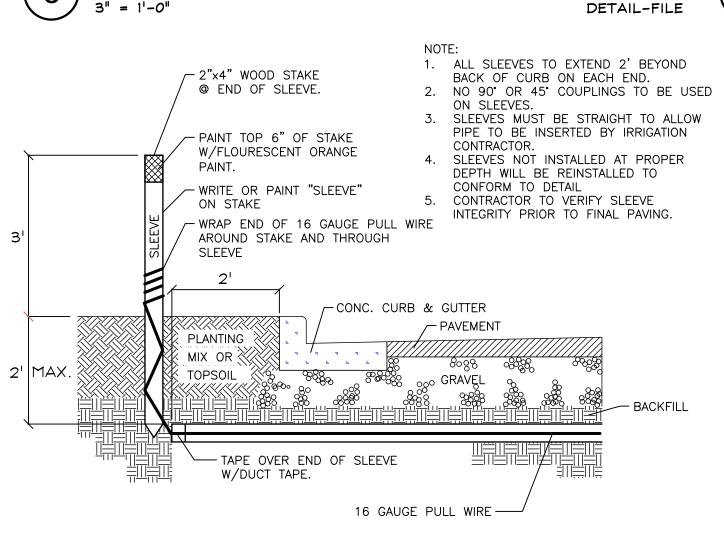
BUBBLER ON FLEX HOSE RISER

POP-UP SPRAY FLEX ASSEMBLY

32 8403.13-02

WALL MOUNT CONTROLLER





RAIN SENSOR

IRRIGATION SLEEVING

NTS

CALL 2 WORKING DAYS **BEFORE YOU DIG** IT'S THE LAW! Know what's **below. DIAL 811**

UNDERGROUND IRRIGATION SYSTEM

PART I: GENERAL 1.01 SCOPE

- A. The work covered by this specification shall include the furnishing of all labor, materials, tools and equipment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.
- B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.
- C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.02 QUALITY ASSURANCE

- A. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.
- B. Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.
- C. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or those scheduled to do underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities.
- D. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site conditions to remain. Should damages be incurred, this Contractor shall repair the damage to its original condition at his own expense. Any disruption, destruction, or disturbance of any existing plant, tree, shrub, or turf, or any structure shall be completely restored to the satisfaction of the Owner and his representatives, solely at the Contractor's expense.
- E. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.
- 1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, roads, grounds, landscaping or structure of any kind (including without limitation, damage from leaks in the piping system being installed or having been installed by Contractor) damaged by the Contractor, or by his agents, employees, or subcontractors, during the course of his work, whether through negligence or otherwise, shall be replaced or repaired by Contractor at his own expense in a manner satisfactory to Owner, which repair or replacement shall be a condition precedent to Owner's obligation to make final payment under the Contract.
- 2. Contractor shall also be responsible for damage to any work covered by these specifications before final acceptance of the work. He shall securely cover all openings into the systems and cover all apparatus, equipment and appliances, both before and after being set in place to prevent obstructions on the pipes and the breakage, misuse or disfigurement of the apparatus, equipment or appliance.
- 3. All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way.
- Buildings, walks, walls, and other property shall be protected from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor by approved means. The Contractor shall restore disturbed areas to their original condition.
- 4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.
- The Contractor shall take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be completely repaired to its original condition, at no additional cost to the Owner.
- 5. The Contractor shall request the Owner, in writing, to locate any private utilities (i.e., electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which were not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.
- F. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.
- G. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.
- H. The superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.
- 1. The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.
- J. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory completion of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of his responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which may later be discovered.
- K. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects in material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be done promptly at no cost to the Owner.
- 1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The Contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of Contractor providing guarantee, address, and telephone number. It shall be signed by the chief executive of the Contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.
- 2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense; provided, however, that in the case of emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and Contractor shall pay the cost thereof.

- L. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.
- M. On-site Observation: At any time during the installation of the irrigation system by the Contractor, the Owner or Landscape Architect may visit the site to observe work underway. Upon request, the Contractor shall be required to uncover specified work as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.
- N. Workmanship: All work shall be installed by qualified, skilled personnel, proficient in the trades required, in a neat, orderly, and responsible manner with recognized standards of workmanship.

 The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

- All materials shall be those specified and/or approved by the Landscape Architect.
- A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data, and installation instructions which he proposes to install
- B. Commence no work before approval of material list and descriptive material by the Landscape Architect.
- C. Record Drawings: The Contractor shall record on reproducibles, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.
- 1. Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or of sizes other than indicated, the Contractor shall clearly indicate such changes on a set of blueline prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Owner.
- 2. The Contractor shall also indicate on the record prints the location of all wire splices, original or due to repair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.
- 3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review and shall be kept in a location designated by the Owner's Representative.
- 4. Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.
- 5. If in the opinion of the Owner or his representative, the record drawing information is not being properly or promptly recorded, construction payment may be stopped until the proper information has been recorded and submitted.
- 6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information shall be approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions.
- D. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his designated representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information:
- 1. Index sheet stating the Contractor's address and business telephone number, list of equipment with name(2) and address(es) of local manufacturer's representative(s).
- 2. Catalog and parts sheets on every material and equipment installed under this Contract.
- 3. Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.
- 4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

- A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required to meet such conditions.
- B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.
- C. All work called for a on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.
- D. The Contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.
- E. If, in the opinion of the Landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment inadequate, improper or unsafe, or if the Contractor shall fail to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such causes of noncompliance and the Contractor shall promptly comply.
- F. The Contractor shall be responsible for full and complete coverage of all irrigation areas. The Landscape Architect shall be notified of any necessary adjustments at no additional cost to the Owner. Any revisions to the irrigation system must be submitted and answered in written form, along with any change in Contract price. Layout may be modified, if necessary to obtain coverage. Spacing not to exceed 60% of the diameter.

PART II: PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior written approval of the Owner/Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation, and defective materials shall be replaced with the proper materials and equipment. Those items used in the installation found to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper manner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective pipe and equipment from the site.

2.02 PIPING

- A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.
- B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.)
 - 1. Laterals: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping less than 3" in diameter shall be Class 200 SDR-21.
 - 2. Main Line Under Pressure: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connection.
 - 3. Pipe Markings: All PVC pipe shall bear the following markings:
 - o Manufacturer's Name
 - o Nominal Pipe Size o Schedule or Class
 - o Pressure Rating of PSI
 - o NSF (National Sanitation Foundation) Approval
 - o Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

- A. Threaded PVC connections shall be made up using Teflon tape only.
- B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

2.06 SOLVENT CEMENT

- A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketted pipe to be intrical ring type. Insert gaskets will not be accepted.
- B. Thrust Blocks: Main line piping 3" or greater in diameter shall have thrust blocks sized and placed in accordance with the pipe manufacturer's recommendations or, in the absence of specified recommendations by the pipe manufacturer. 3000 PSI concrete thrusts shall be properly installed at tees, elbows, 45's, crosses, reducers, plugs, caps and valves.
- 2.07 PIPE AND WIRE SLEEVES

A. Sleeves to be installed:

- 1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:
 - a. All pipe sleeves shall extend a minimum of 36" beyond the edges of pavement.
 - b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans.
 - c. All irrigation system wires shall be sleeved seperately from main or lateral lines.
 - d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire.
 - e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 SPRINKLER HEADS

A. Spray Sprinklers: The sprinkler shall be a fixed spray type designed for in-ground installation.

The nozzle shall elevate 6" (or as designated on plan) when in operation. The body of the sprinkler shall be constructed of non-corrosive heavy duty Cycolac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the tip of the unit by removal of a threaded cap.

Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body. The body of the riser-mount sprinkler shall be constructed of non-corrosive materials. A cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 40 PSI.

(continued...)

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LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER

IRRIGATION NOTES

5/7/2018

Revision

No. Date Description

L210.2
PROJECT: 144429018

DATE: 05/03/2018

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DIAL 811

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2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

- A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.
- B. Gate valves for 3" and larger: Iron body, brass or bronze mounted AWWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150p PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

- A. For gate valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
- B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment
- C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
- 2.12 IRRIGATION WIRING
- A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or lead wires, and common wire to be 14 gauge, white in color.
- B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect lightning strikes.
- 2.13 MISCELLANEOUS MATERIALS
- A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.
- B. Metalized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene; acid, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 6" width; color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0035") solid aluminum foil, core encapsulated within a 2.55 mil (0.00255") polyethylene backing and a 0.6 mil (0.006") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "sandwich" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans. Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) 7VA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually buy operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision value adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.5 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightening protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device. as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space or backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:

<u>Pipe and Wire Depth</u>

Pressure Mainline 18" at top of pipe from Finish Grade
Lateral Piping (rotor) 12" at top of pipe from Finish Grade
Lateral Piping (pop-up) 12" at top of pipe from Finish Grade
Control Wiring Side of main Line

B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another.

No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

- A. PVC Pipe and Joints: The Contractor shall not install solvent wild pipe when air temperature is below 400 F. Installation shall be in accordance with the manufacturer's instructions.
- 1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

- B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.
- C. Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging.

 The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.
- D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

- A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.
- B. Gate Valves: Install where shown, in valve boxes.
- C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, bikeway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

- A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.
- B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.
- C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

- A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.
- B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.
- C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.
- D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

A. General Provisions:

- 1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.
- 2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

B. Head Types:

- 1. Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.
- 2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with AWWA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

- A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.
- B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.
- C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

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FIRM'S FLORIDA CERT. NO. AAP000034/CA3806 IB26000797/LC26000381





Baptist Health Emergency Center Doral

9500 - 9540 NW 58th Street Doral FL 33178

LICENSED PROFESSIONAL

TRICIA C. RICHTER, PLA FLORIDA LICENSE NUMBER LA#6667244

IRRIGATION NOTES

Revision			
No.	Date	Description	

L210.3

CIVIL ENGINEERING SERVICES FOR BAPTIST HEALTH SOUTH FLORIDA

LOCATION

9500-9540 NW 58TH ST

CITY OF DORAL, FLORIDA 33178

PROJECT LOCATION

PROJECT TEAM

CIVIL ENGINEER:

Kimley-Horn and Associates, Inc. 600 North Pine Island Road, Suite 450 Ft. Lauderdale, FL 33324 Phone: (954) 535-5100 Fax: (561) 863-8175 Contact: Stefano F. Viola, P.E.

CLIENT

Baptist Health South Florida 8900 North Kendall Drive Miami, Florida 33176 Phone: (786) 596-7768 Fax: (786) 533-9857

LANDSCAPE ARCHITECT

Kimley—Horn and Associates, Inc. 1920 Wekiva Way, Suite 200 West Palm Beach, FL 33411 Phone: (561) 845-0665 Contact: Tricia Richter, PLA, ASLA

ARCHITECT

Gresham, Smith and Partners Two Alhambra Plaza, Suite #1200 Coral Gables, Florida 33134

LIST OF CONTACTS

ELECTRICAL

FPL-Florida Power and Light Company 6195 NW 82nd Avenue Miami, FL 33166 Contact: Edgar Aguilar

CABLE

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

GAS

4045 NW 97th Ave Doral, FL 33178

WATER/SEWER

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

TELEPHONE

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

Florida City Gas

CORRUGATED METAL PIPE C.M.P. CORP. STOP **CORPORATION STOP** CU. YD. CUBIC YARD DETAIL **DUCTILE IRON PIPE** D.I.P. DWG. DRAWING

DWY.

ELEVATIONS SHOWN HEREON REFER TO NATIONAL

E.O.P.

ABBREVIATION LEGEND:

A.R.V.

A.C.P.

AVE.

BUTT V

C.V. C.B.

C.I.P.

CONC.

COND.

ADAPTER

AVENUE

BOTTOM

AIR RELEASE VALVE

BUTTERFLY VALVE

CHECK VALVE

CATCH BASIN

CONCRETE

CONDUIT

DIVISION

DRIVEWAY

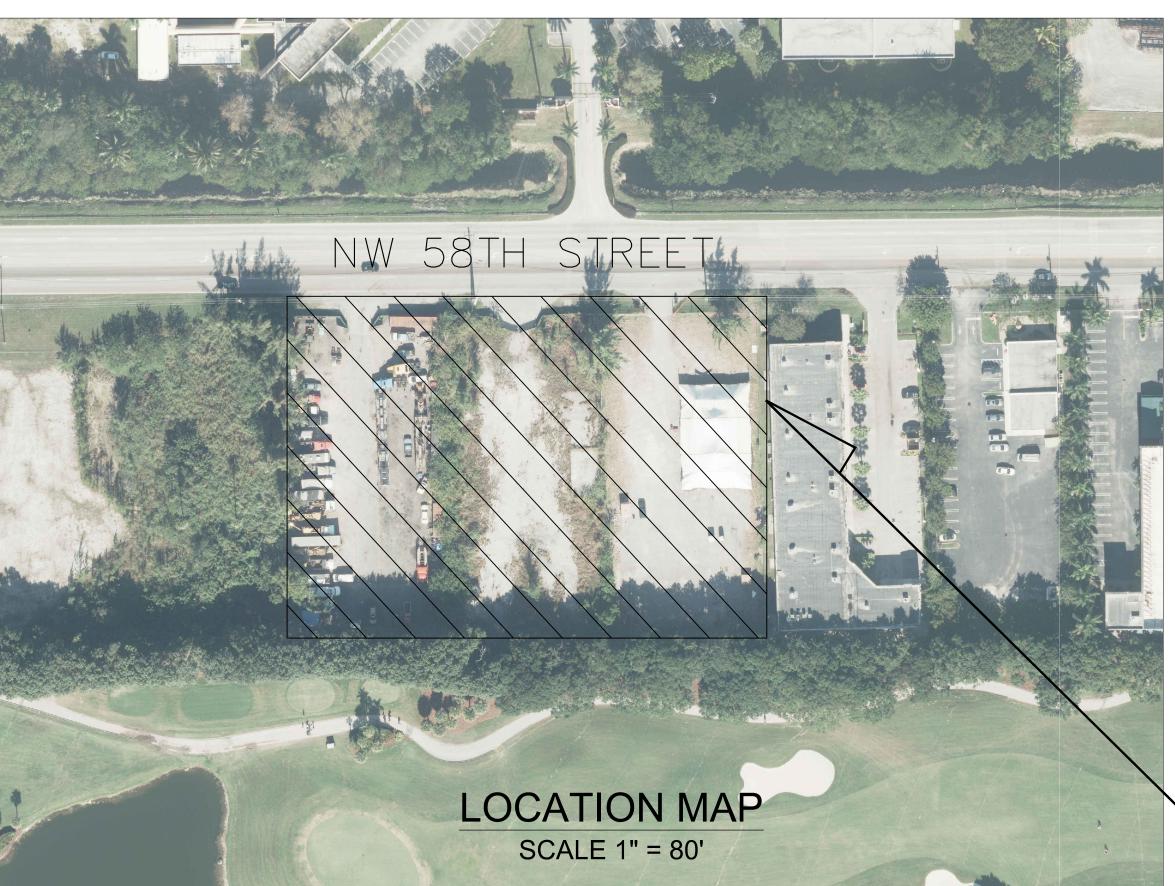
ELEVATION

EDGE OF PAVEMENT

CAST IRON PIPE

ASBESTOR CEMENT PIPE

GEODETIC VERTICAL DATUM (NGVD) OF 1929.



EXISTING

FIRE HYDRANT

FORCE MAIN

GATE VALVE

GAUGE

INVERT

LATERAL

LIGHTPOLE

MANHOLE

MINIMUM

MAXIMUM

NUMBER

POUNDS

PROPOSED

PAVEMENT

PLUG VALVE

MECHANICAL JOINT

POUNDS PER SQUARE INCH

POINT OF INTERSECTION

FIELD BOOK NUMBER

GALVANIZED IRON PIPE

P.V.A.

R.C.P.

SHT.

S.S.

T.O.P.

TWP.

UNK.

V.C.P.

W. MTR.

TAP. SLV.

ST.

SQ. FT.

POLYVINYL CHLORIDE

REINFORCED CONCRETE PIPE

RIGHT-OF-WAY

SQUARE FEET

SANITARY SEWER

STORM SEWER

TOP OF PIPE

UTILITY POLE

WATER MAIN

WATER METER

UNKNOWN

WITHOUT

TOWNSHIP

TYPICAL

TAPPING SLEEVE

THRUST RESTRAINT

VITRIFIED CLAY PIPE

SECTION

SHEET

STREET

EXIST.

F.B.#

F.H.

F.M.

LAT.

PVMT.

LBS.

	PROJECT LOCATION
1	
	<u>LEGAL DESCRIPTION:</u> THE EAST 264.39 FEET OF THE WEST 396.64 FEE
	OF TRACT 32, SECTION 21, TOWNSHIP 53 SOUTH
	FRUIT LANDS COMPANY SUBDIVISION NO. 1, ACC
	AS RECORDED IN PLAT BOOK 2 PAGE 17 OF TH

264.39 FEET OF THE WEST 396.64 FEET OF THE EAST ONE-HALF (E-1/2) 32, SECTION 21, TOWNSHIP 53 SOUTH, RANGE 40 EAST, OF FLORIDA DS 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.

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PAVING, GRADING, & DRAINAGE DETAILS

PAVING, GRADING, & DRAINAGE CROSS SECTIONS

WATER & SEWER PLAN

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C600.1

L000.1

L100.1

L100.2

L110.1

L110.2

L200.1

L210.1

L210.2

L210.3

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

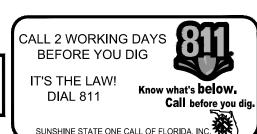
ADDRESS: 9500-9540 NW 58TH ST, DORAL, FL 33178

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**





Design Services

Jackson MS Tampa FL

GRESHAM SMITH AND PARTNERS

Two Alhambra Plaza Coral Gables, Florida 33134

FIRM'S FLORIDA CERT. NO.



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 **COVER SHEET**

Revision

No. Date Description			
	No.	Date	Description

C100.0

STROLLER PERMIT SPACES

BACK (SOUTH)

SIDE (WEST)

68

77

TOTAL SITE AREA

111,856

2.568

100.0%

G S & P

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Atlanta GA Jacksonville FL Birmingham AL Knoxville TN 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

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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

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

AGREEMENT ID 23629

6-5=1

5' REQ'D

5

6

GU INTENSITY FACTOR

OC INTENSITY FACTOR

SPACES

SPACES

141

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, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- 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. AA 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
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 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
- 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
- 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

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S 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 (U.S. DOT/FHA) 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

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

CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT

- 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 CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 11. IF DEWATERING 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 SEEDED 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 SEEDED 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
- 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
- 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.

WATER AND SEWER UTILITY NOTES

- 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.

- 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.
- 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.
- WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES
- 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.
- UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- 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, TELEVISION 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
- 13. ALL WATER MAIN PIPES SHALL BE COLOR CODED USING BLUE AS A PREDOMINANT COLOR IN ACCORDANCE WITH RULE 62-555.320(21)(B)(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 DISTRIBUITION SYSTEM MATERIAL:

- A. THE WATER MAIN SHALL BE DUCTILE IRON PIPE (DIP).
- 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 12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO 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

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.
- 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 C651-05 OR LATEST REVISION.
- D. ALL NEW WATER MAINS SHALL BE PIGGED PRIOR TO DISINFECTION.
- E. METER CONNECTIONS SHALL BE MADE TO NEW LINES ONLY AFTER TWO CONSECUTIVE DAYS OF BACTERIOLOGICAL SAMPLES HAVE PASSED, AND COPIES OF RESULTS HAVE

 MAINTENANCE 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. OTHERWISE SPECIFIED ON THE PLANS.
- AS DETERMINED BY THE FOLLOWING FORMULA:

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:

- ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH FDOT STANDARD INDEX # 17346, WHERE SHOWN ON THE PLANS
- 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 TRAFFIC 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.
- 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

- 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.
- 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
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- 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.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST

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.
- 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 SEEDED. THESE AREAS SHALL BE SEEDED 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.
- 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 FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL SAMPLING POINTS SHALL BE PROVIDED AT INTERVALS OF A MAXIMUM OF 1200' UNLESS 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 ONCE EVERY SEVEN CALENDAR DAYS AND G. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR 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.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD

- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.
- 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
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING
- SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE
- ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING

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

3RD PARTY TEST REPORTS REQ'D

- 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

SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE

HEIGHT OF THE SILT FENCE.

PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

OF THE TEMPORARY PARKING AS CONDITIONS DEMAND. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM

TYPICAL ENGINEER OBSERVATIONS

MD-WASD

AGREEMENT ID 23629

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

Design Services 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

PARTNERS

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FIRM'S FLORIDA CERT. NO. AAP000034/CA3806 IB26000797/LC26000381

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Baptist Health

9500 - 9540 NW 58th Street

Doral FL 33178

LICENSED PROFESSIONAL

FLORIDA LICENSE NUMBER

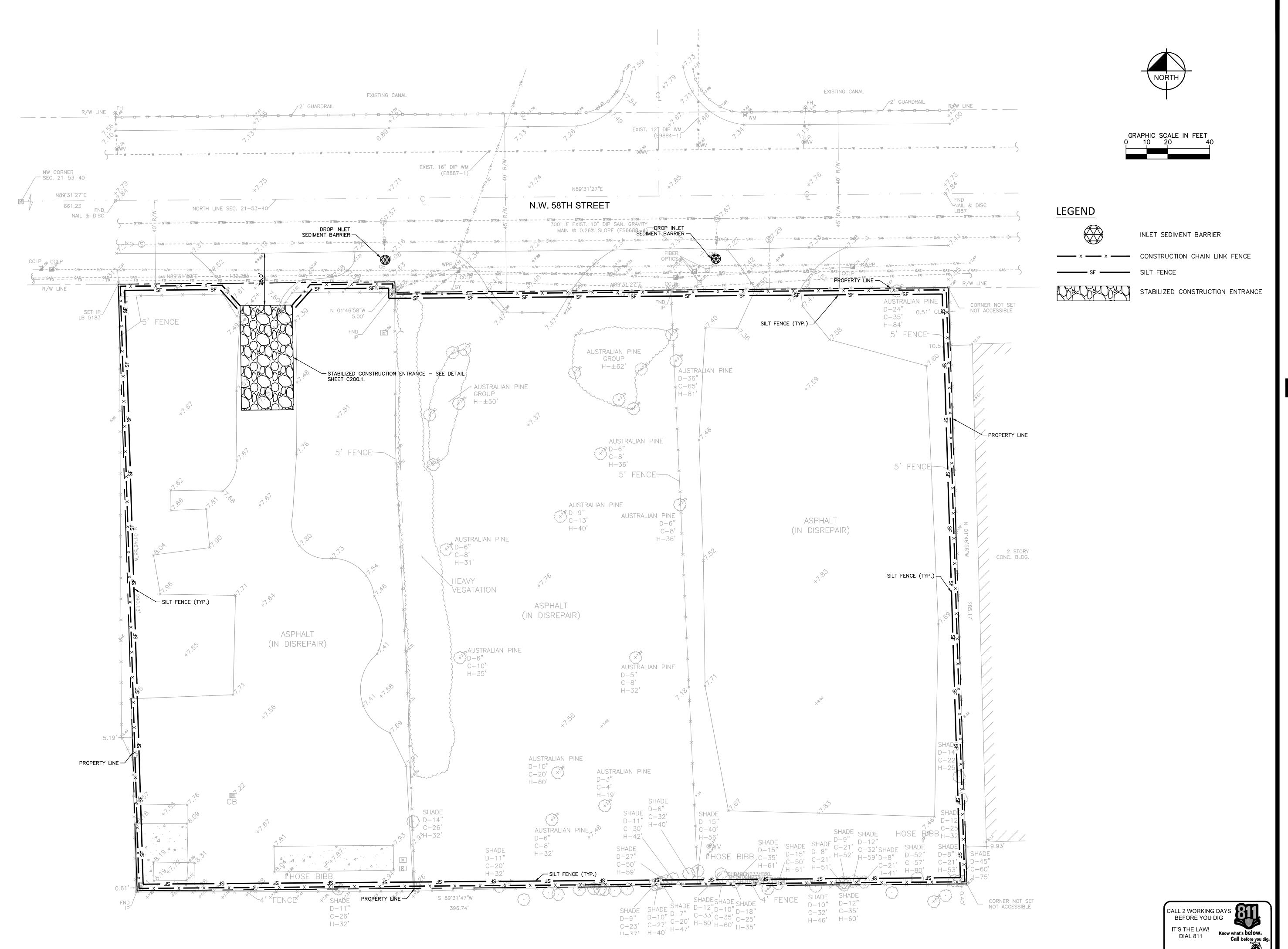
74655

STEFANO F. VIOLA. P.E.

5/4/2018

GENERAL NOTES

Revision No. | Date | Description





Atlanta GA
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Baptist Health Emergency Center Doral

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LICENSED PROFESSIONAL

STEFANO F. VIOLA, P.E.

FLORIDA LICENSE NUMBER

74655

5/4/2018

EROSION CONTROL PLAN

Revision		
No.	Date	Description

C200.0

BEST MANAGEMENT PRACTICES (BMPS):

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE MIAMI DADE COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA

- PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
- SEDIMENTION PROTECTION OF STORM SEWER OR RECEIVING STREAM.

832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION. DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALI PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE

GENERAL EROSION CONTROL NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- FUEL SPILLS AND LEAKS PREVENTION PREVENT/REDUCE VEHICLE AND EQUIPTMENT WASHING AND STEAM CLEANING VEHICLE AND EQUIPTMENT MAINTENANCE AND REPAIR
- PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND
- SOLID WASTE MANAGEMENT
- HAZARDOUS WASTE MANAGEMENT CONCRETE WASTE MANAGEMENT
- SANDBLASTING WASTE MANAGEMENT STRUCTURE CONSTRUCTION AND PAINTING SPILL PREVENTION AND CONTROL
- CONTAMINATED SOIL MANAGEMENT SANITARY/SEPTIC WASTE MANAGEMENT
- SOIL EROSION CONTROL
- STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

-). BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- . SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT
- CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE, PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.
- GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
- 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 SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

STORM WATER EROSION CONTROL PRACTICES:

- . CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 3. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.
- D. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
- E. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
- IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
- STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
- WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOLD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.
- F. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

- G. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS
- H. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.
- I. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.
- J. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL

WIND EROSION CONTROL PRACTICES:

- A. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
- BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABALIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS, REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN, CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABALIZATION PRACTICES FOR DETAILS).
- AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE.
- B. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS

STABILIZATION PRACTICES:

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)

STRUCTURAL PRACTICES:

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)

WASTE DISPOSAL:

- A. WASTE MATERIALS ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.
- B. HAZARDOUS WASTE HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
- SANITARY WASTE SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
- D. 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.

OFFSITE TRACKING

- A. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD. DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN
- B. GENERAL 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 LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE. AND SHALL USE. ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.
- C. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
- D. 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
- E. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

MAINTENANCE:

BEFORE IT IS CARRIED OFF THE SITE.

ALL MEASURES STATED ON THIS 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 ONCE 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:

- A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- B. B. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

- C. THE COMPOST ROCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
- D. 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.
- E. 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.
- F. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10%
- G. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.DIVERSION DIKES SHALL BE INSPECTED MONTHLY, ANY BREACHES SHALL BE PROMPTLY REPAIRED.
- H. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED. THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- I. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.

AND AFTER CONSTRUCTION IS COMPLETE.

- J. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.
- K. 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

SPILL PREVENTION AND CONTROL:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

A. GOOD HOUSEKEEPING

- 1. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- 2. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- 3. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- 4. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- 5. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
- 6. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- B. HAZARDOUS PRODUCTS
- 1. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- 2. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

C. PRODUCT SPECIFIC PRACTICES

- 1. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
- 2. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- 3. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- 4. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CLEAN UP:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- A. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- B. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
- C. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- D. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- E. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- F. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- G. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.

H. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR

AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING. LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE

- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL SILT FENCE DEMOLISH EXISTING STRUCTURES, (IF APPLICABLE) CONSTRUCT AND STABILIZE SEDIMENT BASIN AND DRAINAGE SWALES WITH
- APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE) INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, ETC.)
- PREPARE CLEARING AND GRUBBING OF THE SITE, (IF APPLICABLE) START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE

9. OFFSITE HEADWALL CONNECTION TO OPWCD SHALL BE MADE AFTER THE ENTIRE

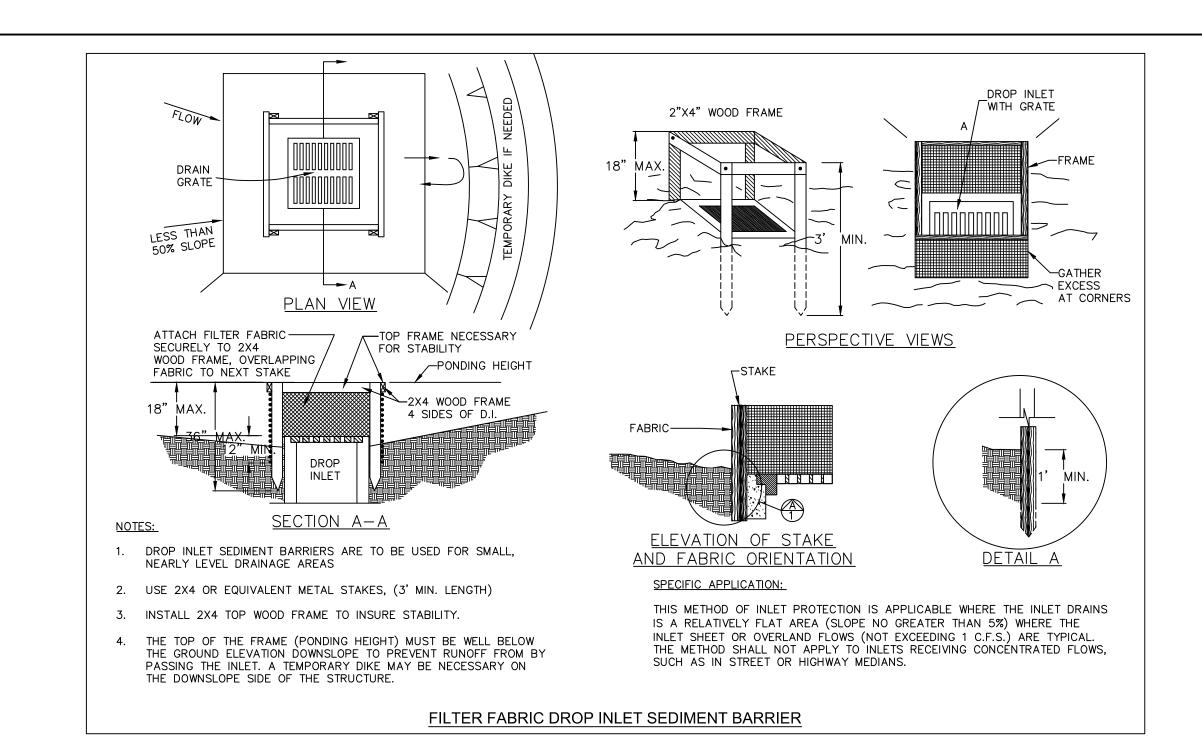
DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

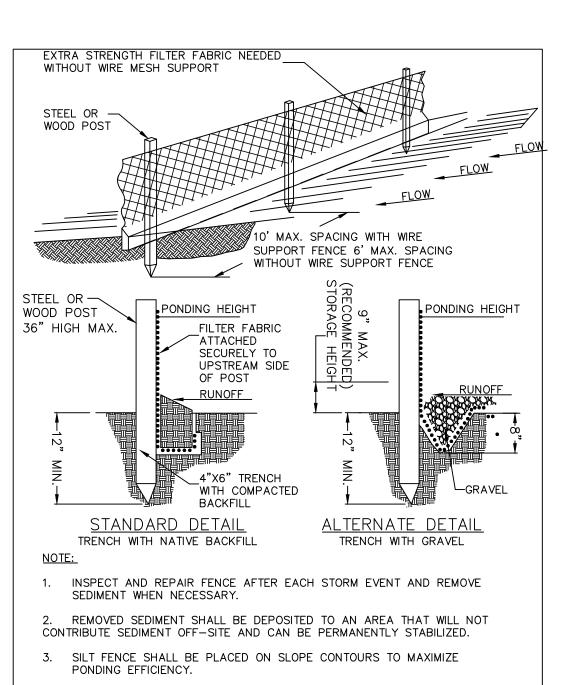
TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY GENERIC PERMIT

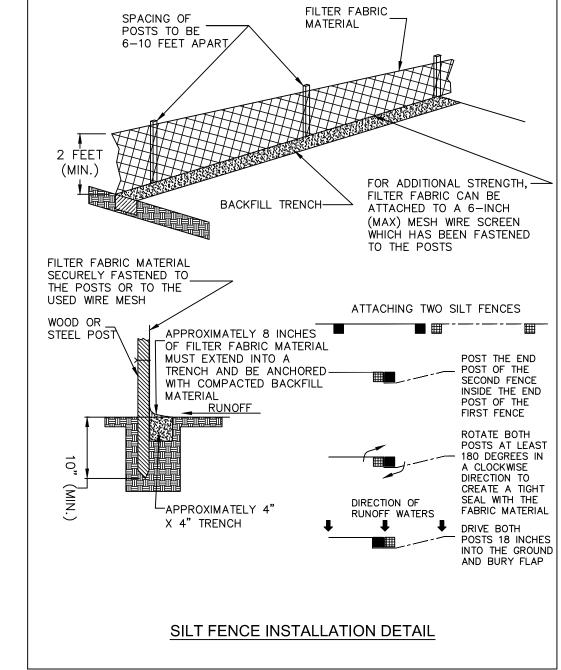
ONSITE DRAINAGE SYSTEM HAS BEEN INSTALLED. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEER CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND

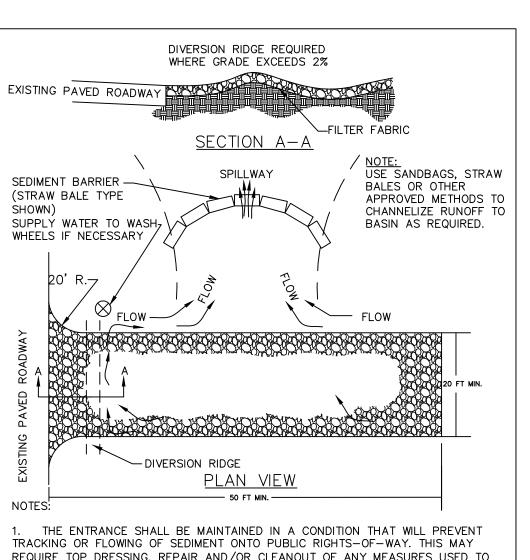
CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND

CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR CONSTRUCTION





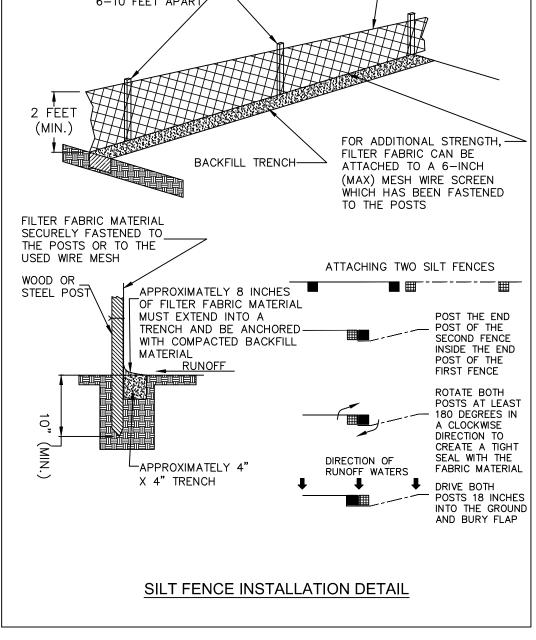




SILT FENCE DETAIL

REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO

WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



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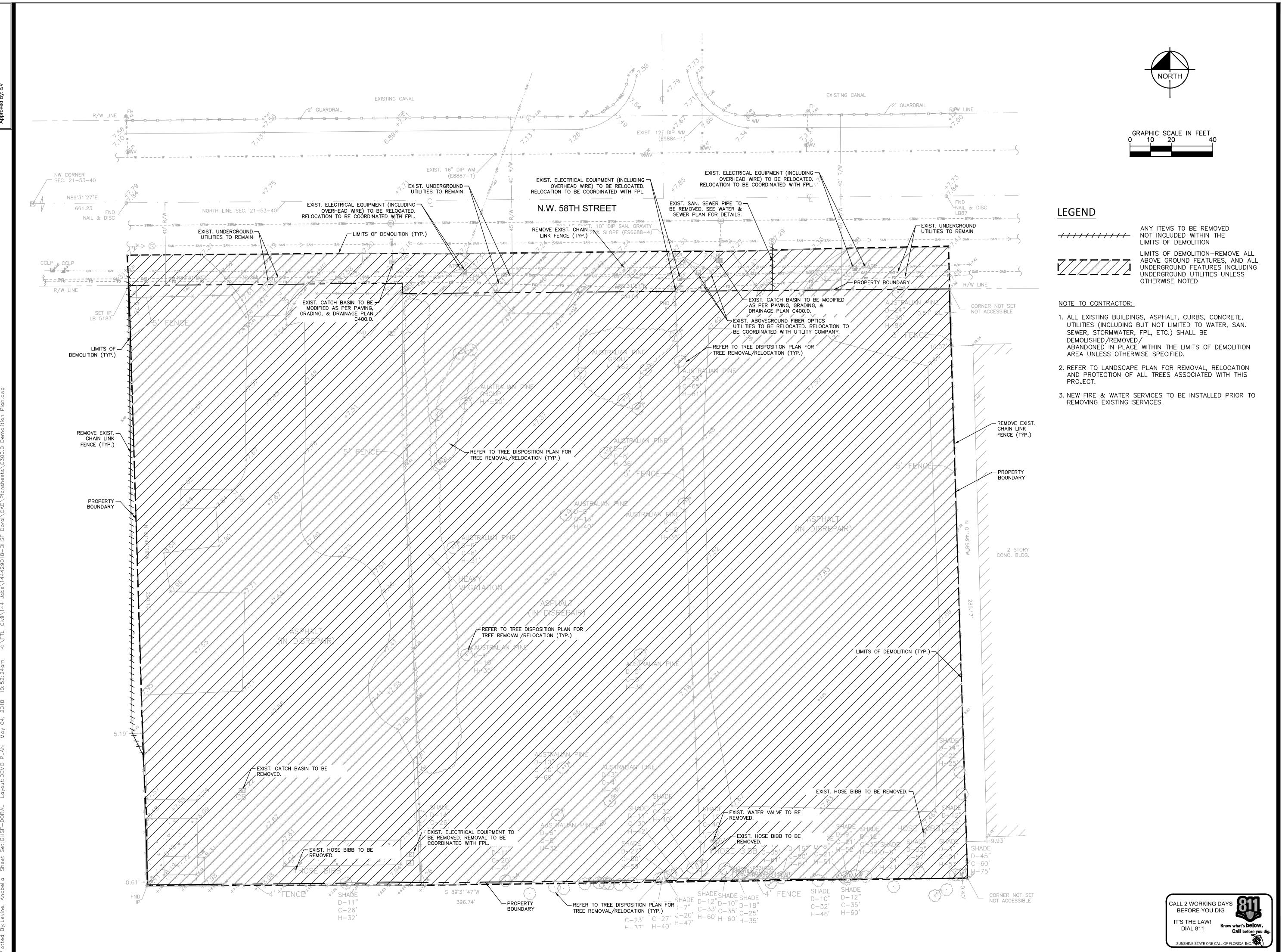
EROSION CONTROL

74655

DETAILS Revision

| No. | Date | Description

PROJECT: 144429018 05/03/2018





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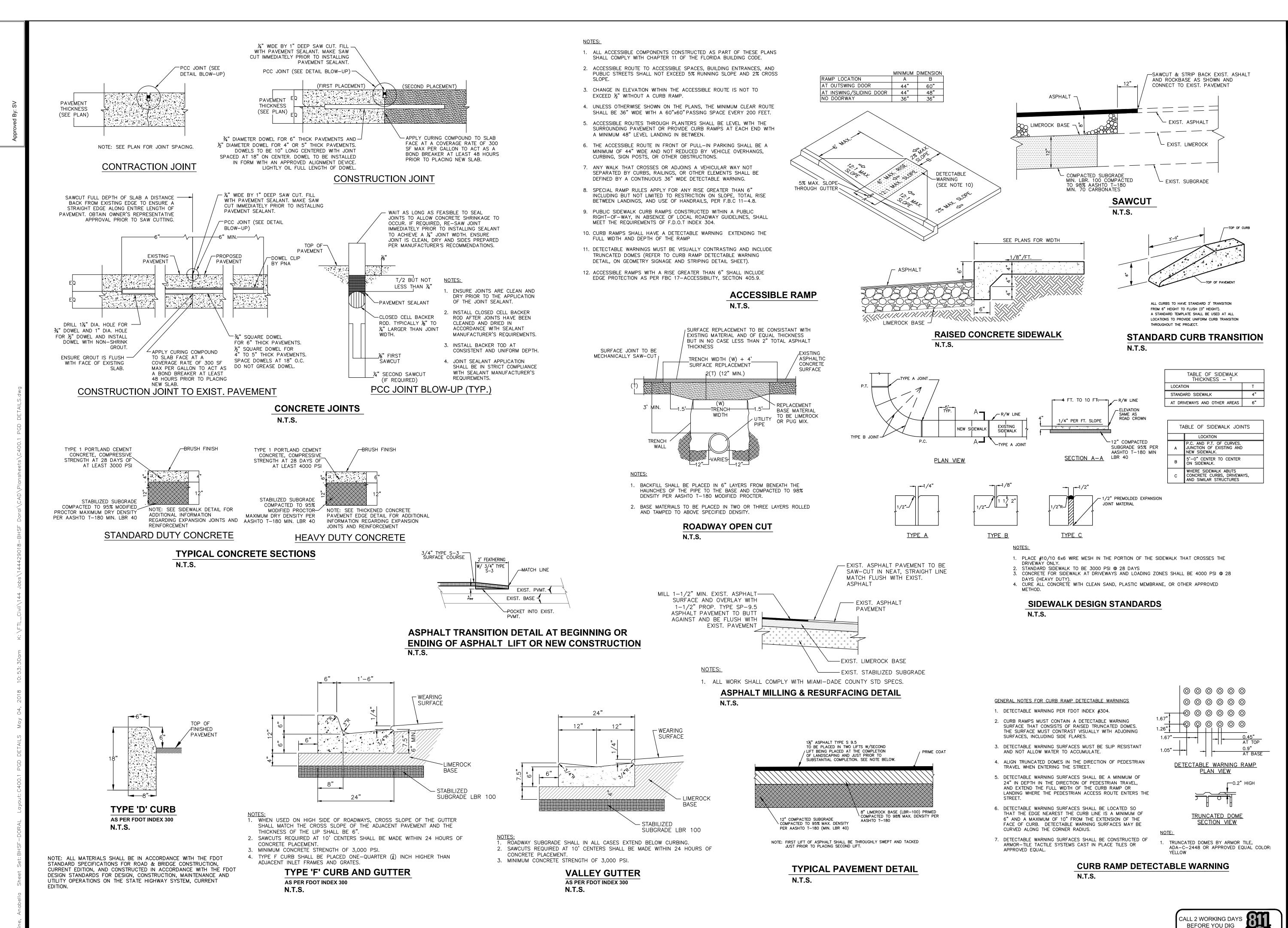
74655

5/4/2018

PAVING, GRADING, & PRAINAGE PLAN

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

C400.0



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PAVING, GRADING, & DRAINAGE DETAILS

Revision Date Description

C400.1

PROJECT: 144429018 DATE: 05/03/2018

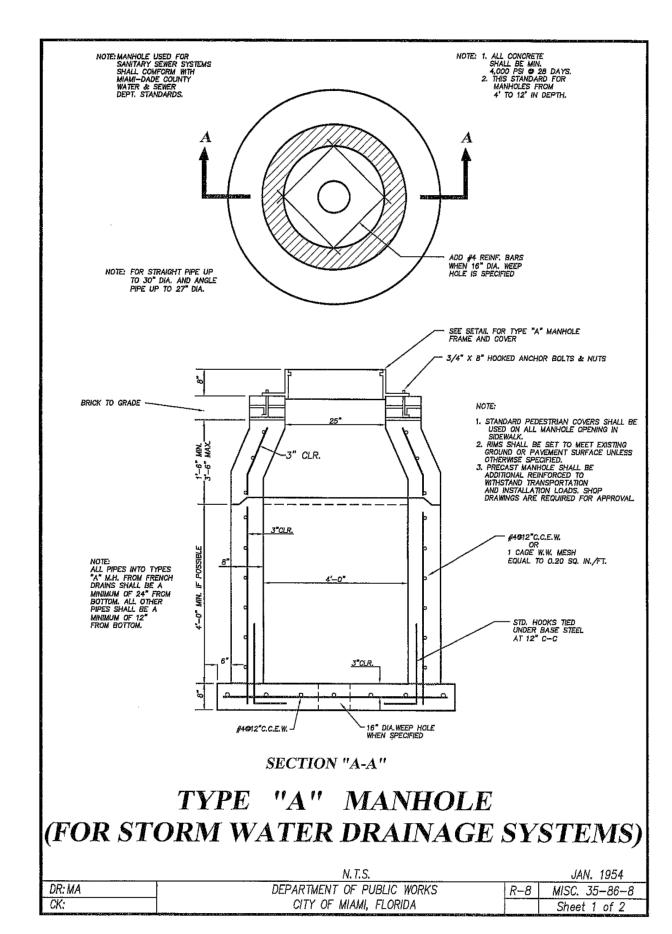
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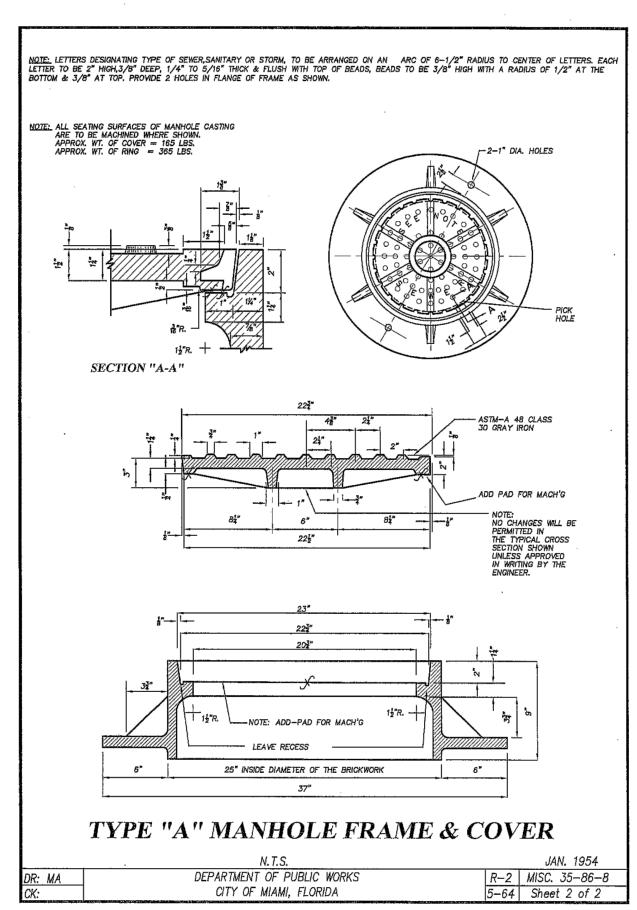


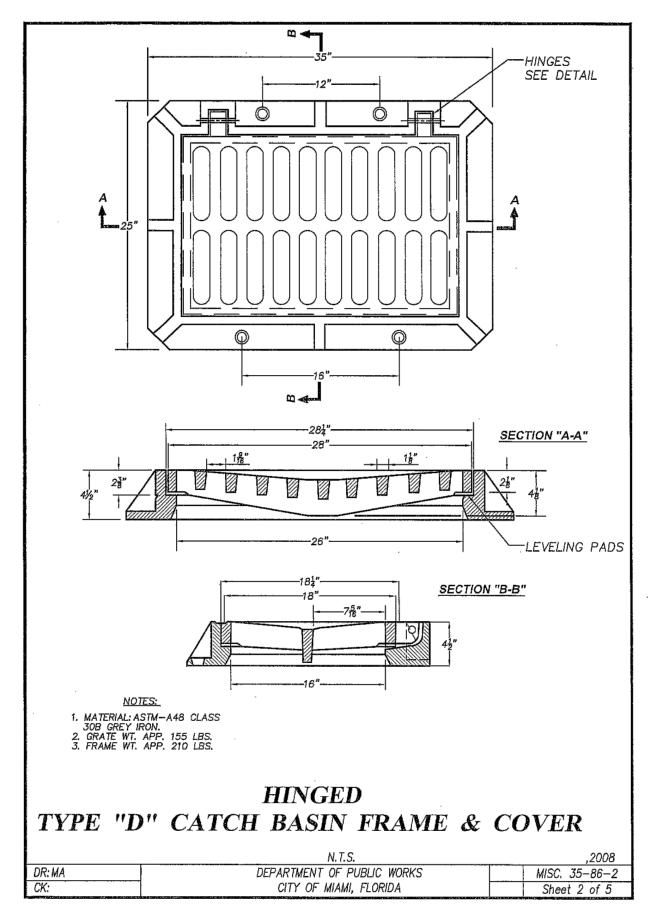
48" | 54" | 60" | 14 | VARIES

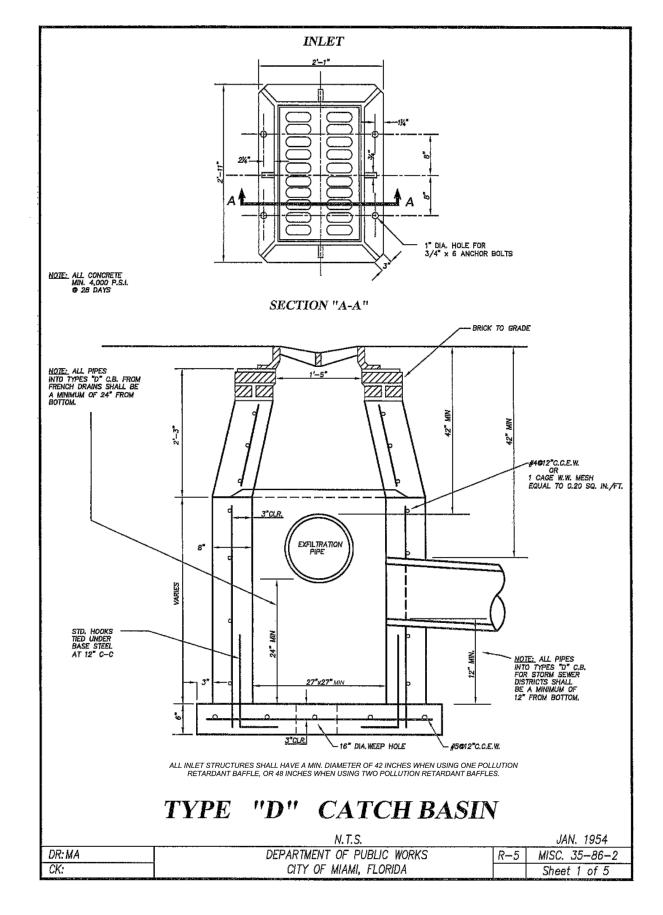
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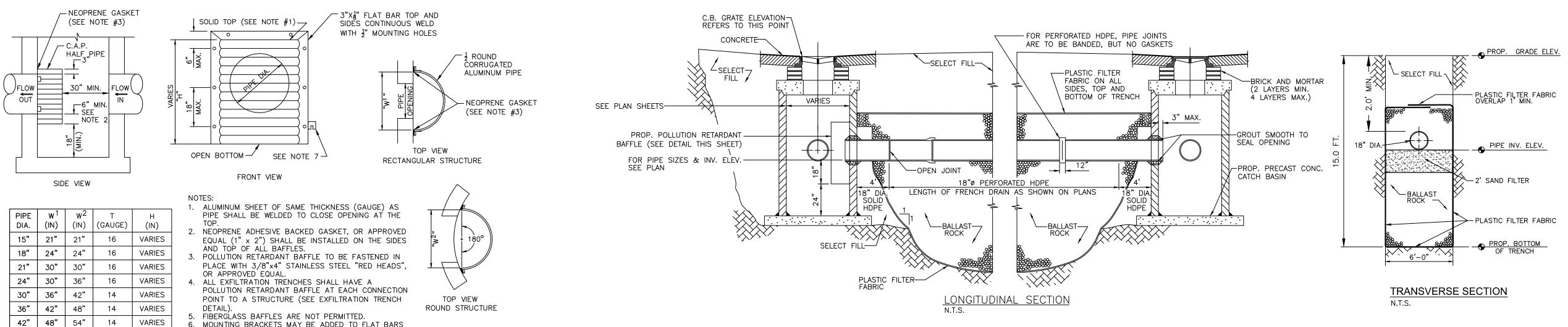
. RECTANGULAR STRUCTURE

2. ROUND STRUCTURE









POLLUTION RETARDANT BAFFLE DETAIL

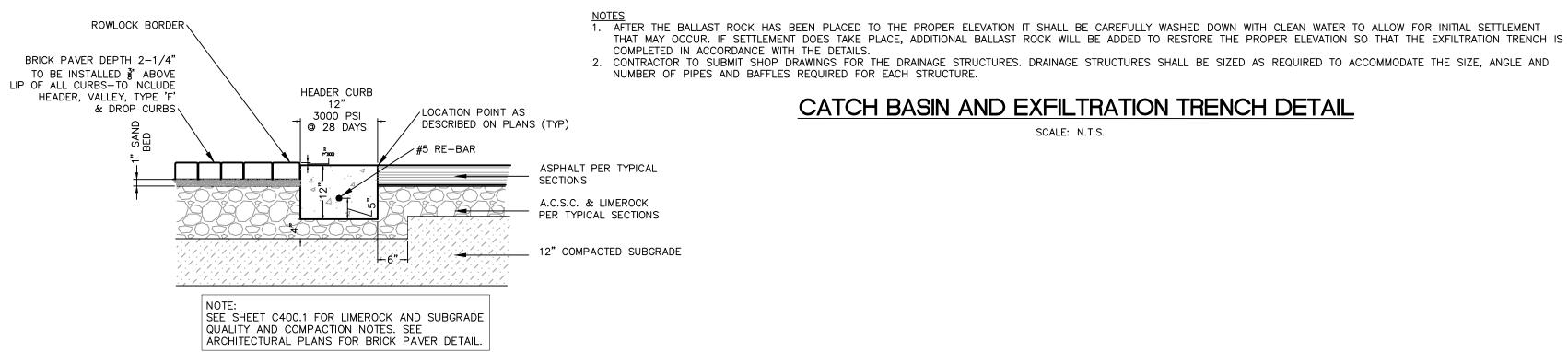
MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS

INLET STRUCTURES MUST PROVIDE A MINIMUM 30 INCH

TO EASE INSTALLATION IN ROUND STRUCTURES.

SPACING TO MATCH HOLES IN FLAT BARS.

CLEARANCE IN FRONT OF BAFFLES.



VEHICULAR BRICK PAVERS w/HEADER CURB DETAIL

SCALE: N.T.S.

CATCH BASIN AND EXFILTRATION TRENCH DETAIL

SCALE: N.T.S.

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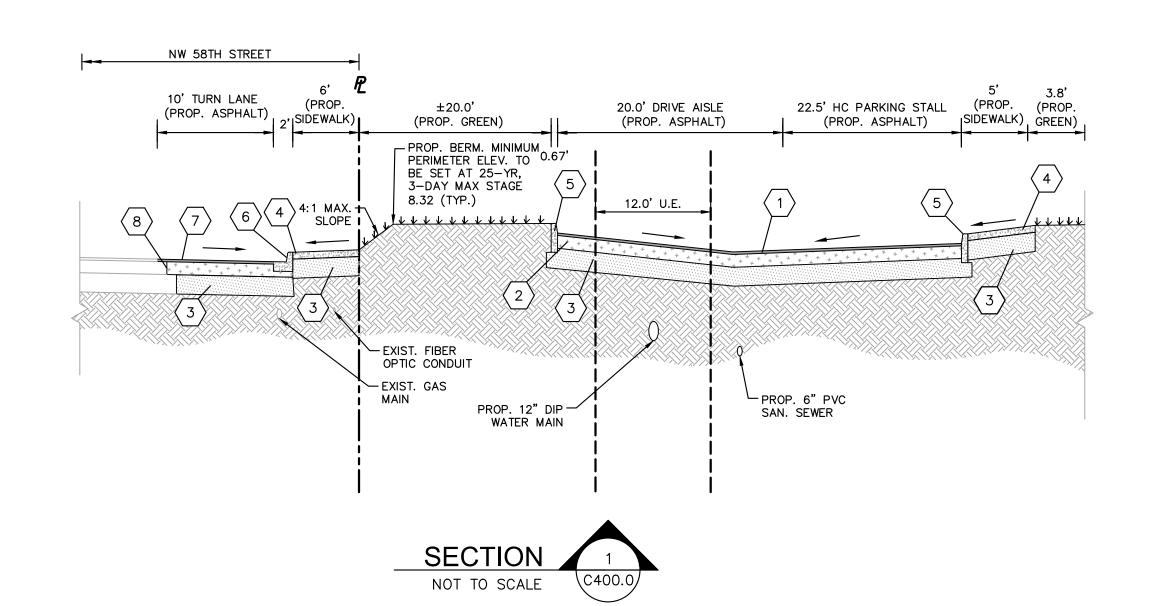
STEFANO F. VIOLA, P.E. FLORIDA LICENSE NUMBER 74655

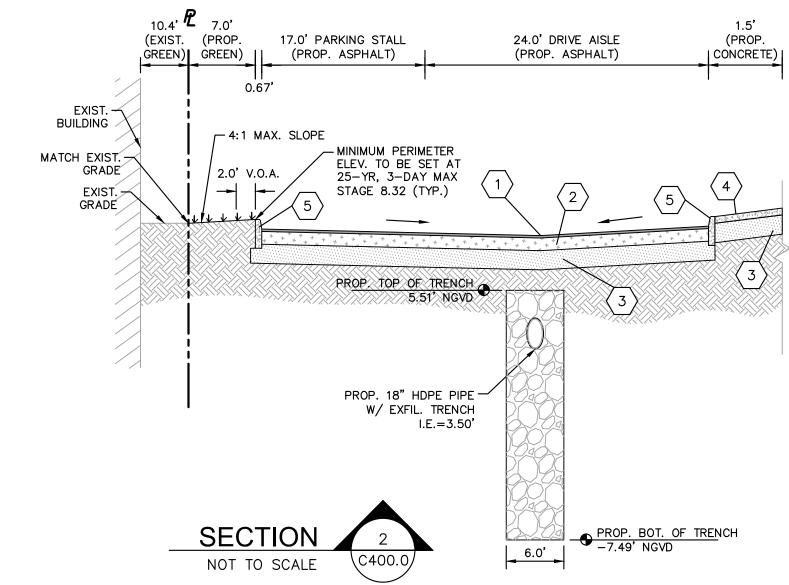
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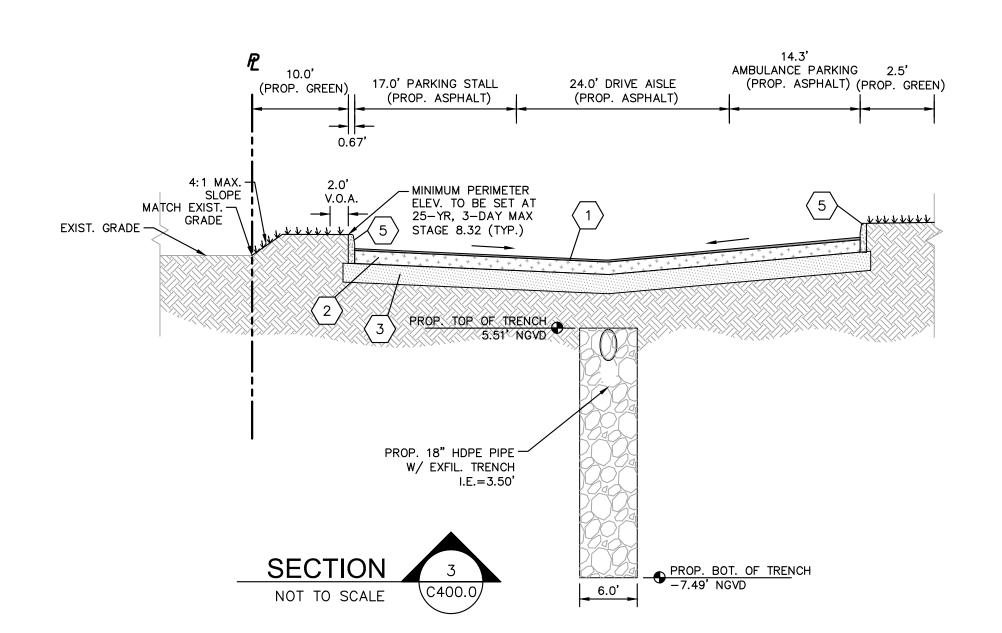
PAVING, GRADING, & DRAINAGE DETAILS

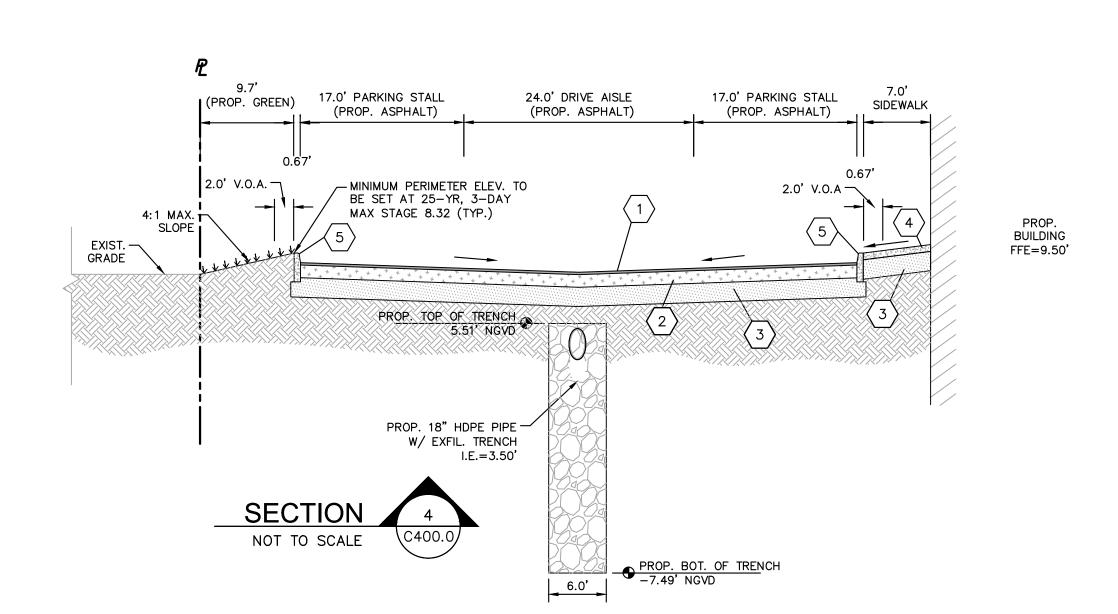
Revision No. Date Description

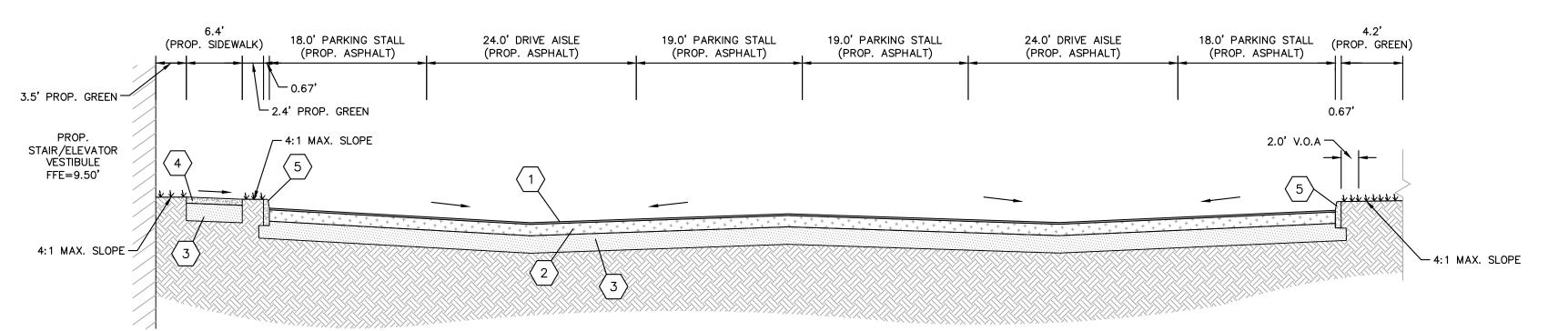
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PAVING LEGEND

- $\begin{pmatrix} 1 \end{pmatrix}$ 1- $\frac{1}{2}$ " 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
- 3 12" STABILIZED SUBGRADE (LBR 40) 95% COMPACTED DENSITY
- 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
- ASPHALT SURFACE AS PER MIAMI-DADE COUNTY STANDARDS
- 8 LIMEROCK BASE AS PER MIAMI-DADE COUNTY STANDARDS



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FLORIDA LICENSE NUMBER 74655

5/4/2018

PAVING, GRADING, & DRAINAGE CROSS SECTIONS

	Revision				
No.	Date	Description			

PROJECT: 144429018 DATE: 05/03/2018

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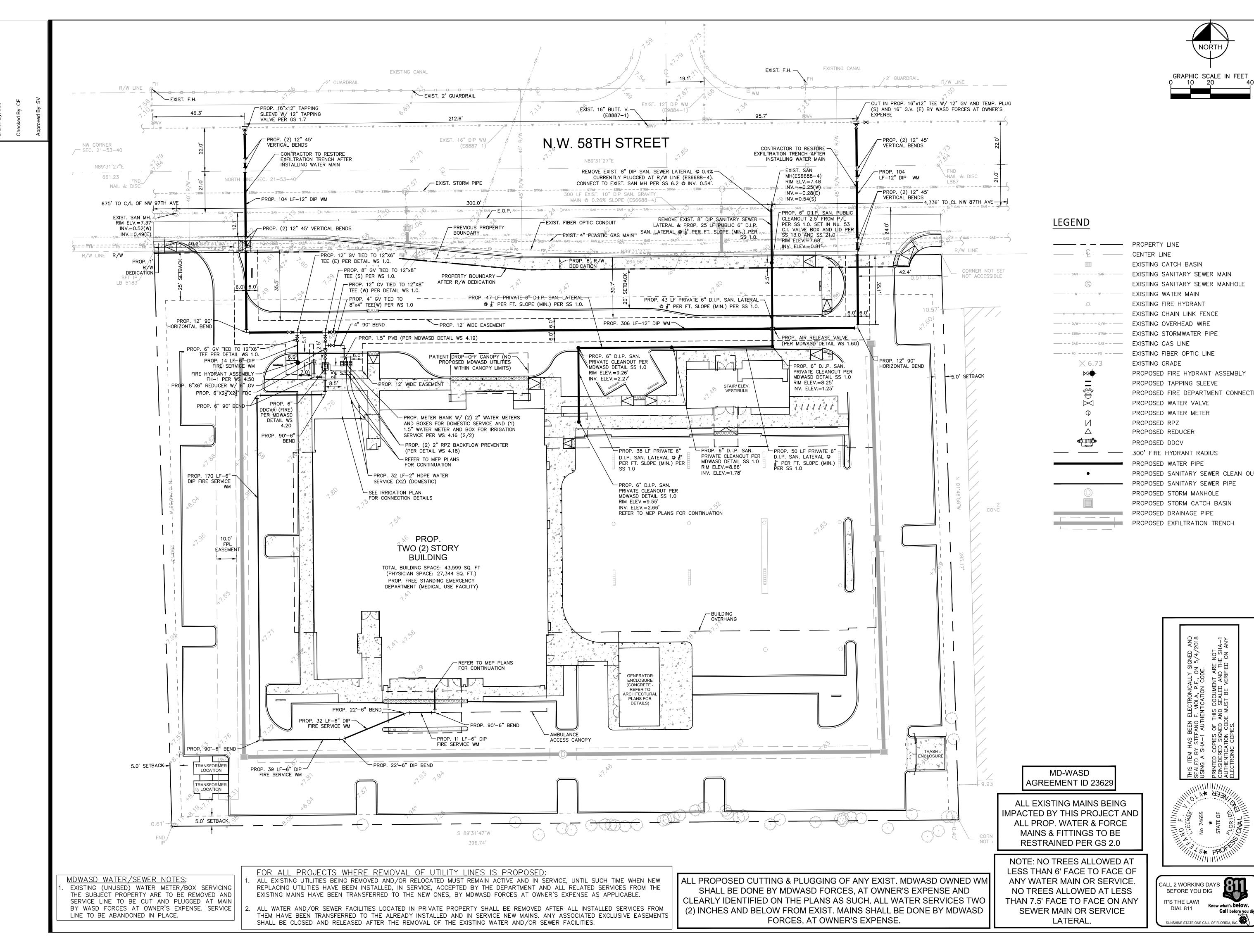
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DIAL 811

GROUND WATER TABLE ELEVATION = 3.50

ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.





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WATER & SEWER PLAN

5/4/2018

	Revision			
No. Date Description		Description		

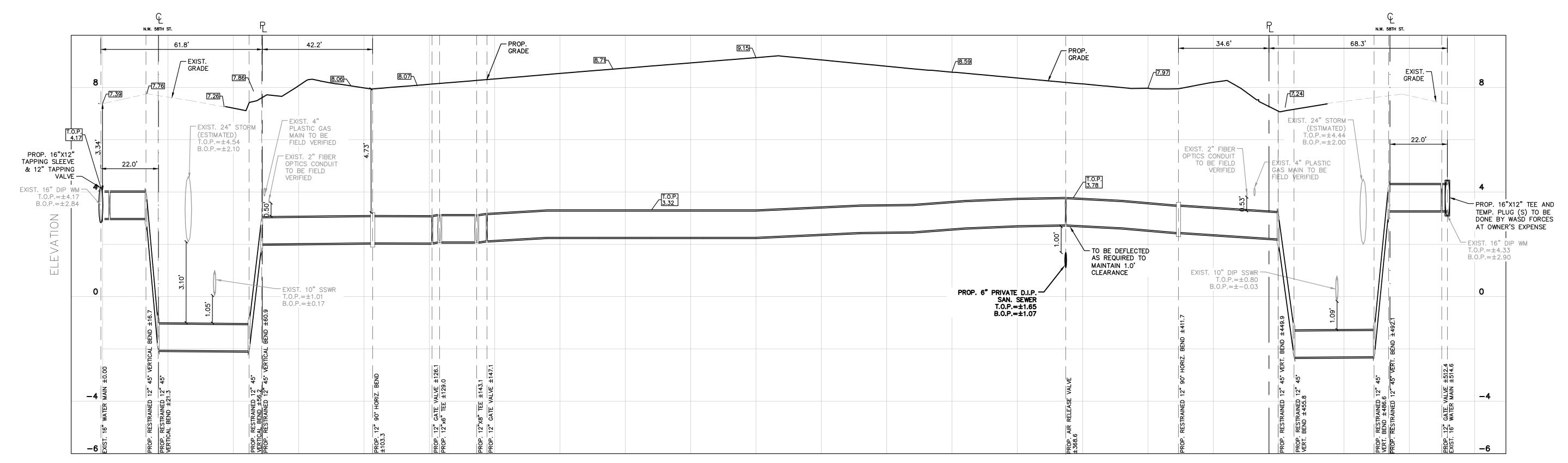
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PROJECT: 144429018 DATE: 05/03/2018

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NEER *A

THIS ITEM HAS BEEN ELE SEALED BY STEFANO F. USING A SHA—1 AUTHEN



NOTE: DISTANCES ASSOCIATED WITH BOTTOM PROFILE LABELS REPRESENT THE VALVE, BEND, OR TEE LOCATION ALONG THE PROPOSED 12" DIP WATER MAIN.

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

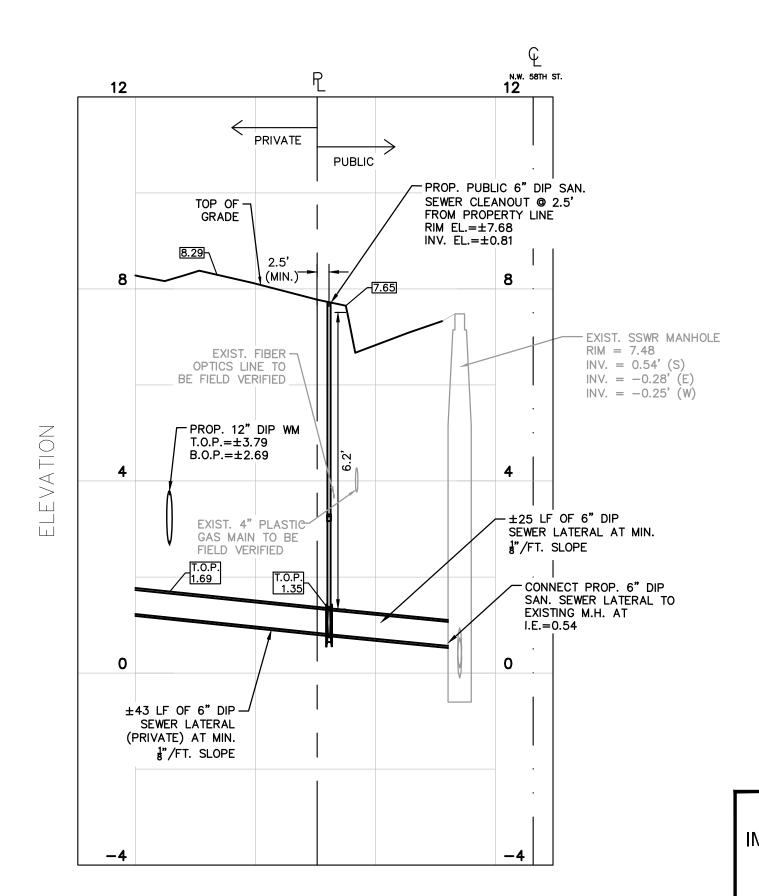
DISCLOSURE RELATED TO CRITICAL HABITAT FOR ENDANGERED SPECIES:

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.

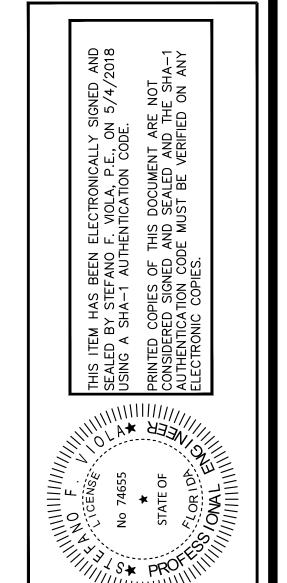


SEWER LATERAL
SCALE: 1"=20' (HORZ.)
1"=2' (VERT.)

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.







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LICENSED PROFESSIONAL

STEFANO F. VIOLA, P.E.

74655 5/4/2018

FLORIDA LICENSE NUMBER

WATER & SEWER PROFILES

	Rev	ision
No.	Date	Description

C500.1

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
- 4. ALL EXISTING MANHOLES, ELECTRIC BOXES, METER BOXES, AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPOSED
- 5. PROPERTY DAMAGE RESULTING FROM WORK REQUIRED BY THIS CONTRACT SHALL BE CLEANED UP, REPAIRED OR REPLACED
- 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
- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL INSPECTIONS.
- 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-DCPWD STANDARD DETAIL R21.1, THE APPLICABLE CITY OF DORAL PUBLIC WORKS, M-DCPWD, 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. <u>ACCESS TO REMAIN OPEN AT ALL TIMES.</u> 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 UNDULY RESTRICTED AS DETERMINED BY THE ENGINEER.
- 14. FOR SEWER CONNECTIONS TO V.C.P., THE CONTRACTOR SHALL TELEVISE 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).

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
- 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
- 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
- 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).

NOT A PART OF MDWASD NOTES OR -APPROVAL

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Rev. 5/25/2017

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

WATER MAIN HORIZONTAL SEPARATIONS:

- 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
- * 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.

- . 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
- 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 (8½"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.

				ITEM	CROSS REF.	SPEC. REF.
	ISSUE DATE	APPROVED BY	STANDARD	DETAIL	G	0
	03/01/2010	V.F.C.	STANDARD RE	OHEREMENTS		S
AMI-DADE NTY	07/20/2016	D.V.	WATER AN	•	0.	.5
ring Excellence Every Day			CONSTRU		SHEET 1	DE 2
& SEWER DEPARTMENT		·	001101111		SHEEL	U 2

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):

NOT A 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
- 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
- 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 DISRUPTED 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/INACTICE).
- 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.
- 1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL
- 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:

- b. PDF FILE c. CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST
- 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. Q, \(\), 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
- I. 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
- 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
- b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON

SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.

- 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.

ALL RECORD DRAWING SUBMITTALS

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.

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED

BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

				ITEM	CROSS SF REF. R
	<u>ISSUE DATE</u>	APPROVED BY	STANDAR	D DETAIL	
	03/11/2009	V.F.C.			GS
MIAMI-DADE COUNTY	07/20/2016	D.V.	"RECORD	DRAWING"	0.5
Delivering Excellence Every Day			REQUIR	EMENTS	
WATER & SEWER DEPARTMENT					SHEET 2 0

를 ^교 물 WEER *A

ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP. WATER & FORCE MD-WASD MAINS & FITTINGS TO BE AGREEMENT ID 23629 **RESTRAINED PER GS 2.0**

811 CALL 2 WORKING DAYS BEFORE YOU DIG IT'S THE LAW! Know what's **below. DIAL** 811 Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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Suite 1200 Coral Gables, Florida 33134 786.532.2100 FIRM'S FLORIDA CERT. NO.

Two Alhambra Plaza

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Baptist Health

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Doral FL 33178

LICENSED PROFESSIONAL

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

74655

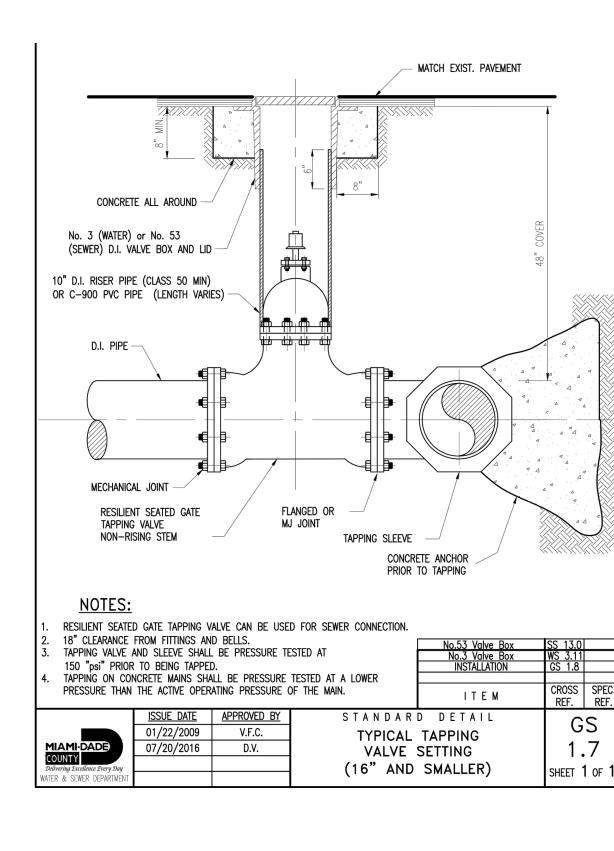
5/4/2018

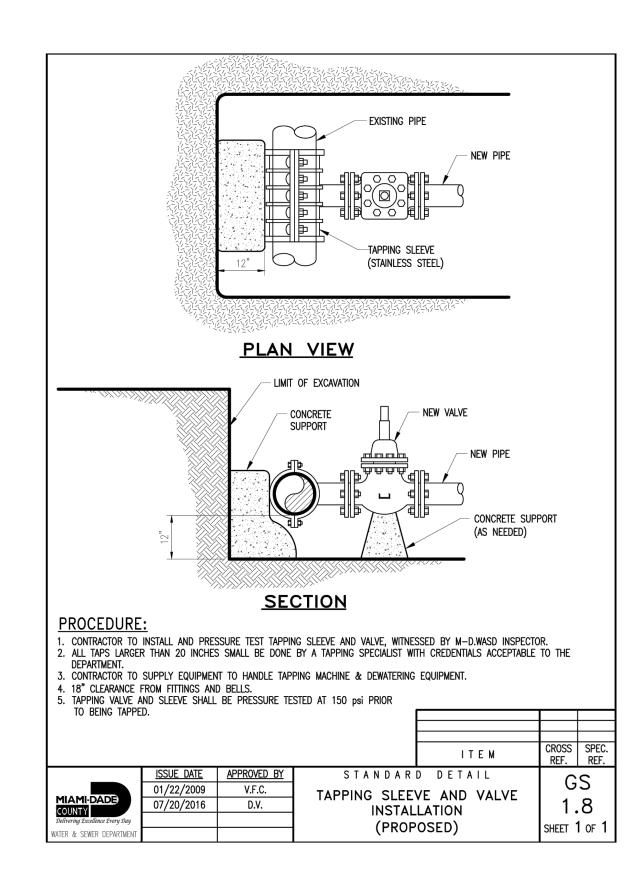
WATER & SEWER DETAILS

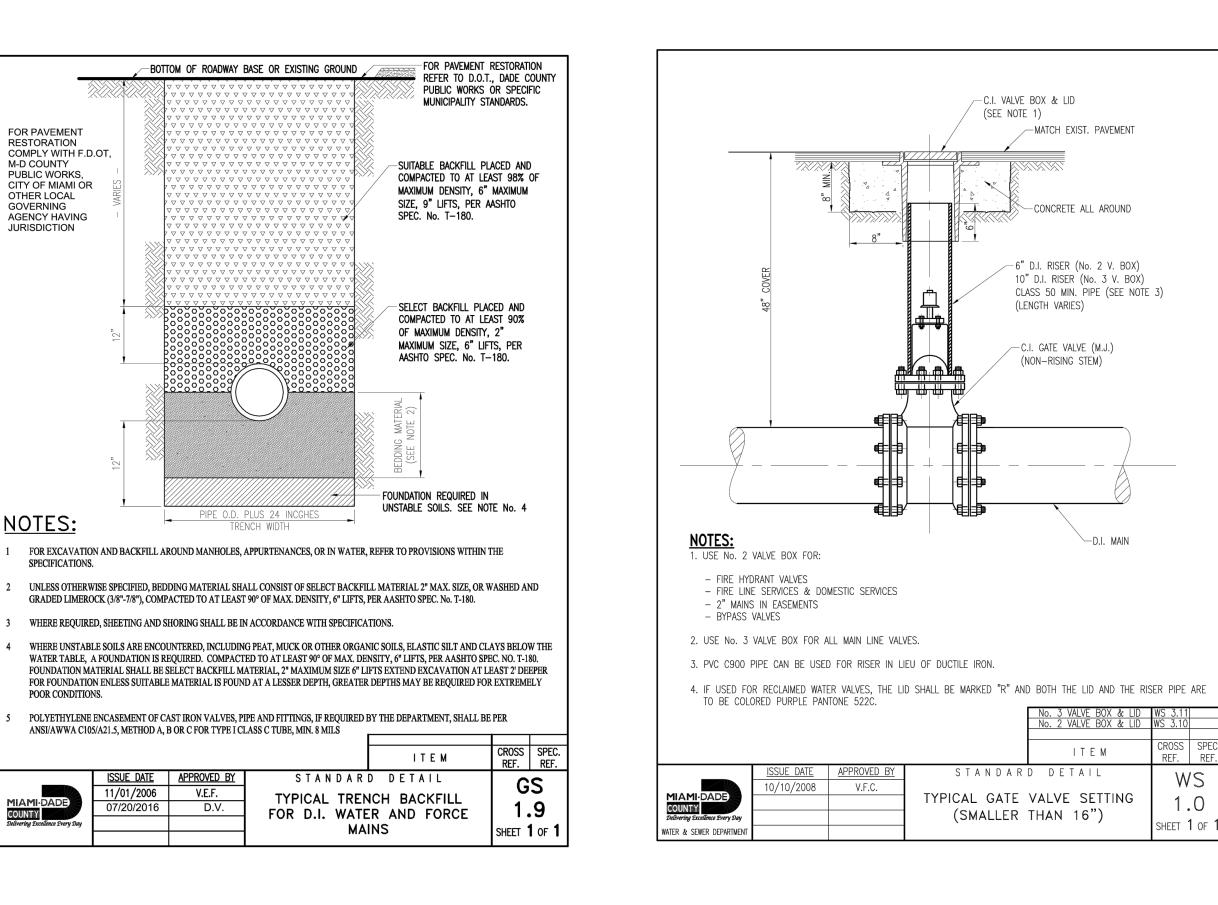
Revision

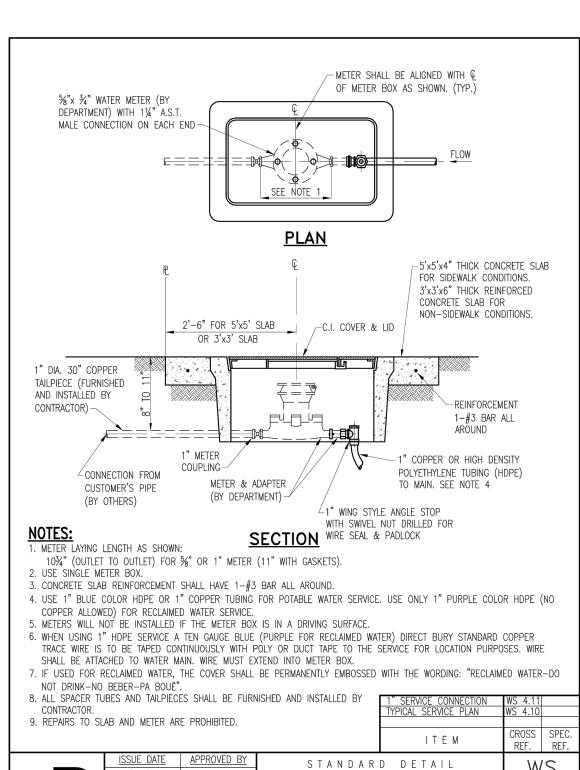


C500.2



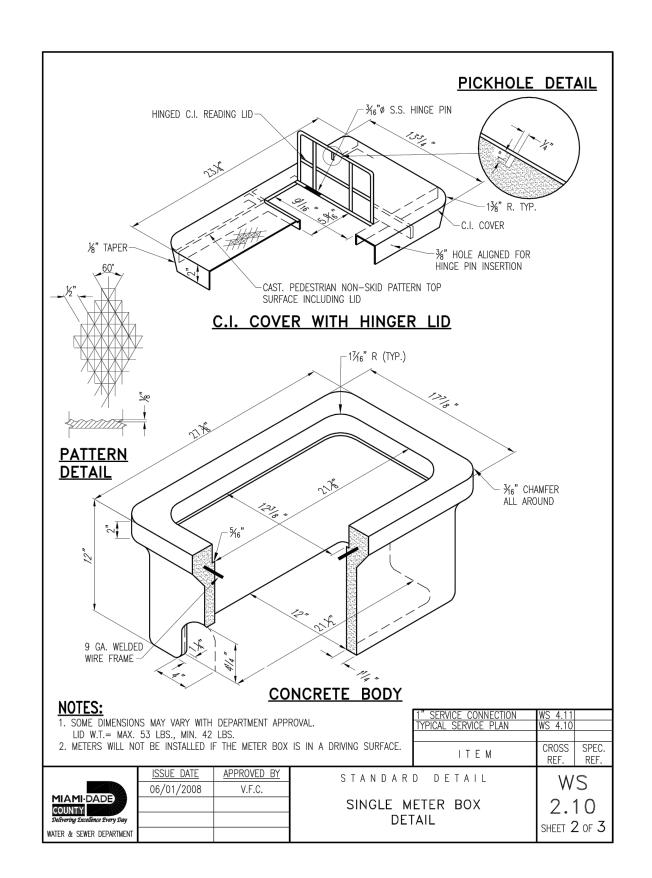


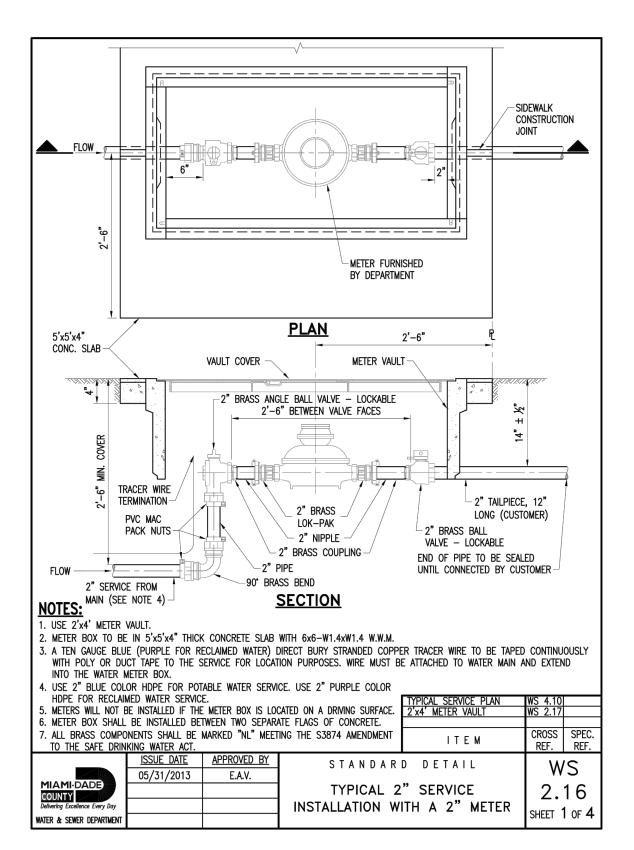


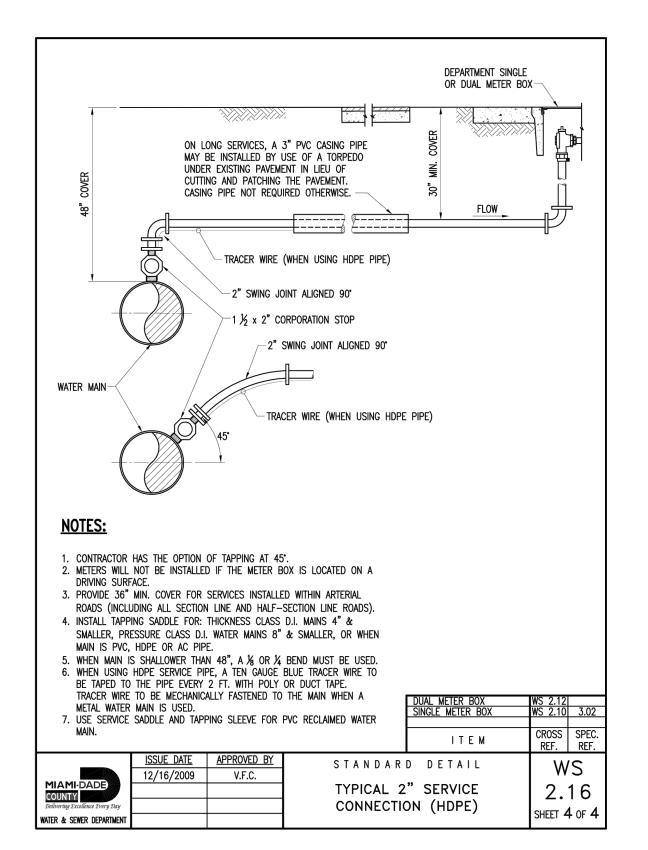


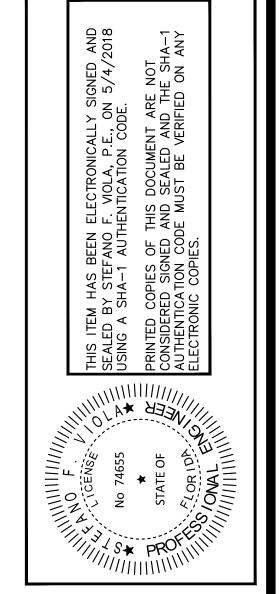
SINGLE METER BOX

INSTALLATION









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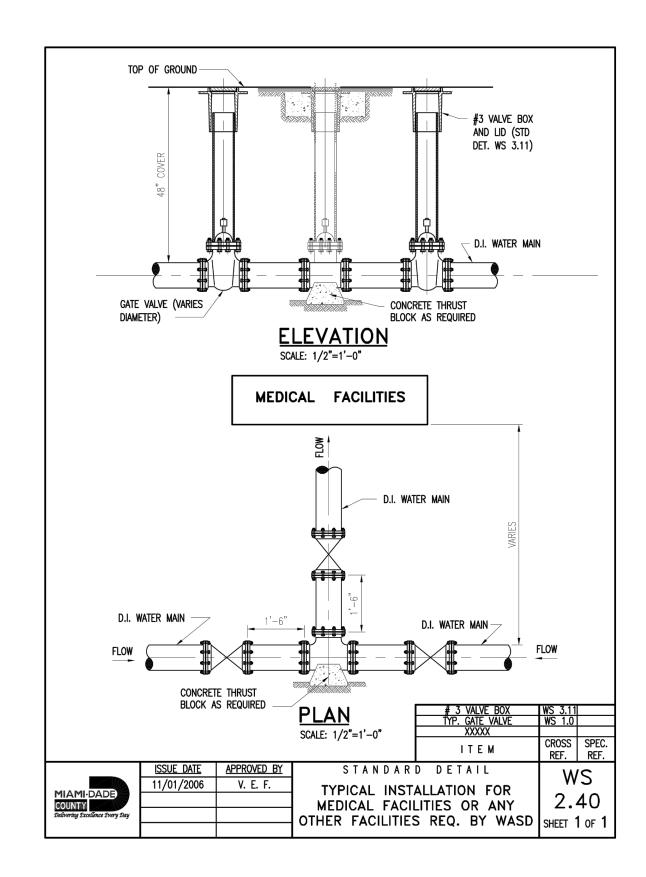
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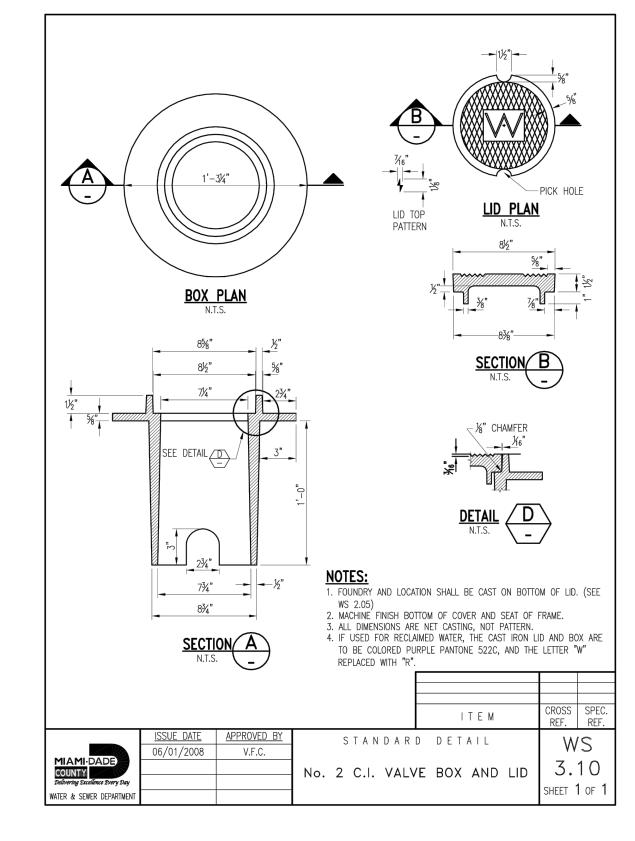
WATER & SEWER DETAILS

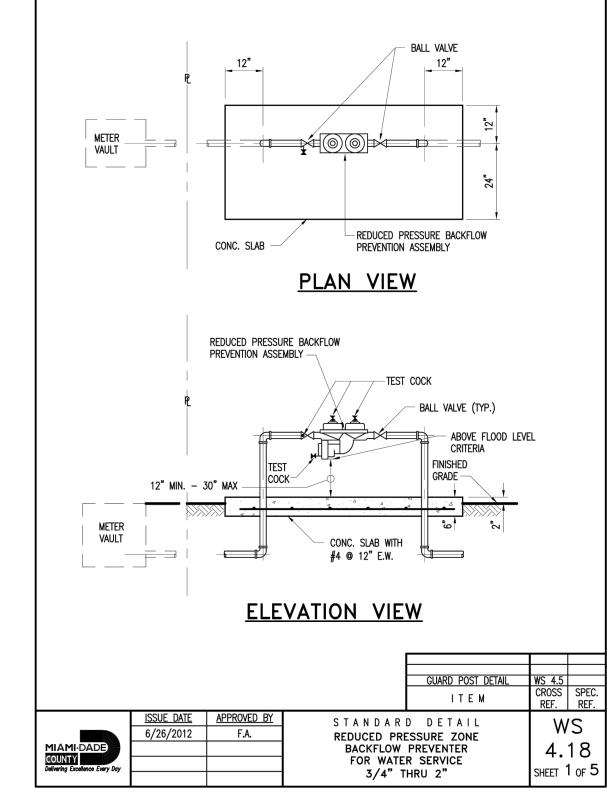
5/4/2018

Revision No. | Date | Description

C500.3









WATER & SEWER DEPARTMENT

1-. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.

SHEET 1 of 3

2-. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.

3-. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT. 4-. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF DOUBLE DETECTOR CHECK VALVE ASSEMBLY, WITH GALVANIZED STEEL PIPE AND FLOOR FLANGE. ATTACH

5-. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.

FLOOR FLANGE TO CONCRETE SLAB WITH GALVANIZED EXPANSION BOLTS.

6-. PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. PIPING 21/2" 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.

7-. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.

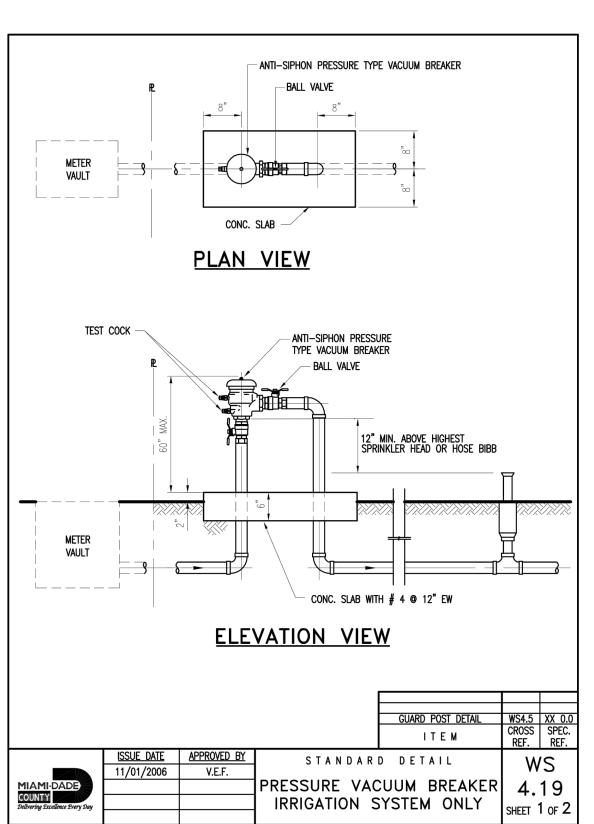
DEPARTMENT STANDARDS.

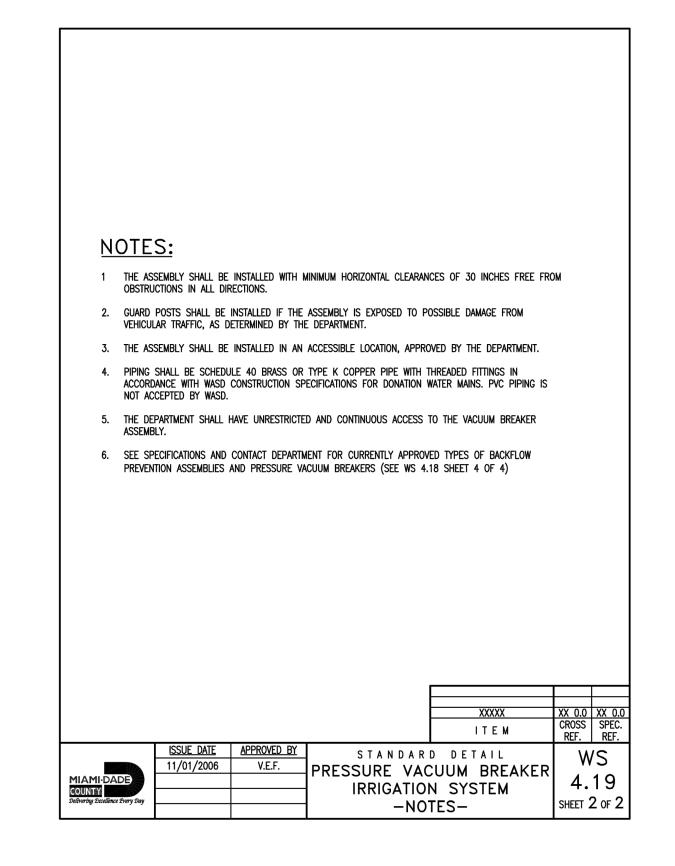
8-. ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH BLUE ENAMEL PAINT (KOP-COAT 0508 LEAD-FREE) IN ACCORDANCE WITH

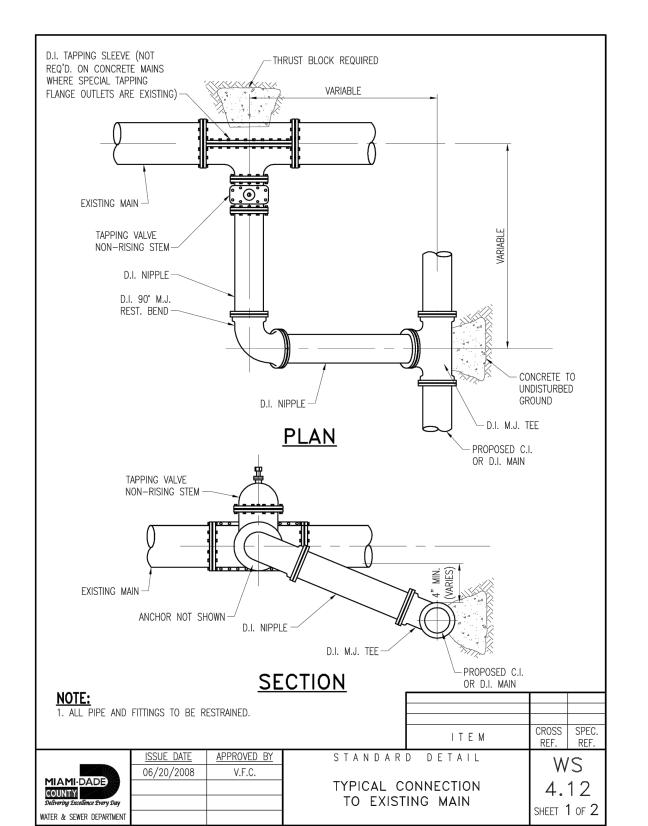
9-. REFER TO ATTACHED LIST (WS 4.18, SHEETS 4 AND 5 OF 5) OF APPROVED BACKFLOW PREVENTION

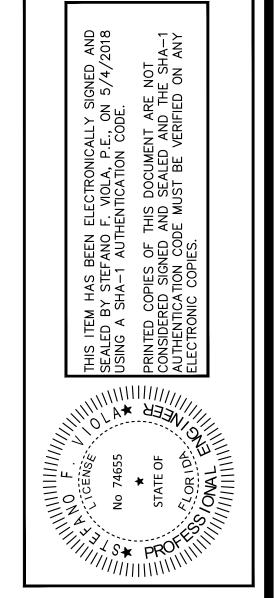
10.- COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT".

				GUARD POST DETAIL	WS 4.5	
				ITEM	CROSS	SPEC.
				1121	REF.	REF.
	<u>ISSUE DATE</u>	APPROVED BY	STANDAR	D DETAIL	l w	, C
	8/29/2012	F.A.	REDUCED PRE	SSURF ZONF	"	၁၂
AMI-DADE			BACKFLOW		4.	18 I
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ng Excellence Every Day			– NO.	TFS -	SHEET 3	3 of 5









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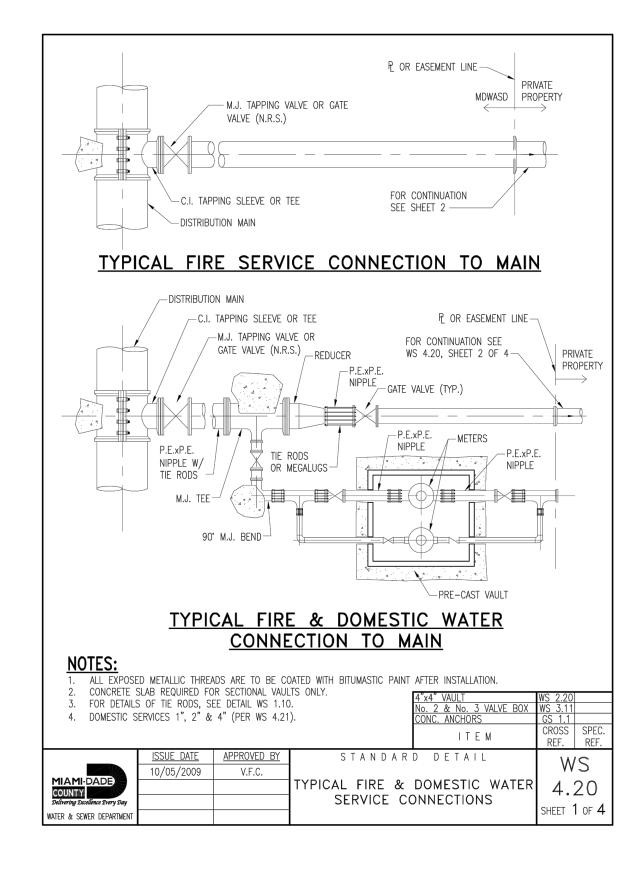
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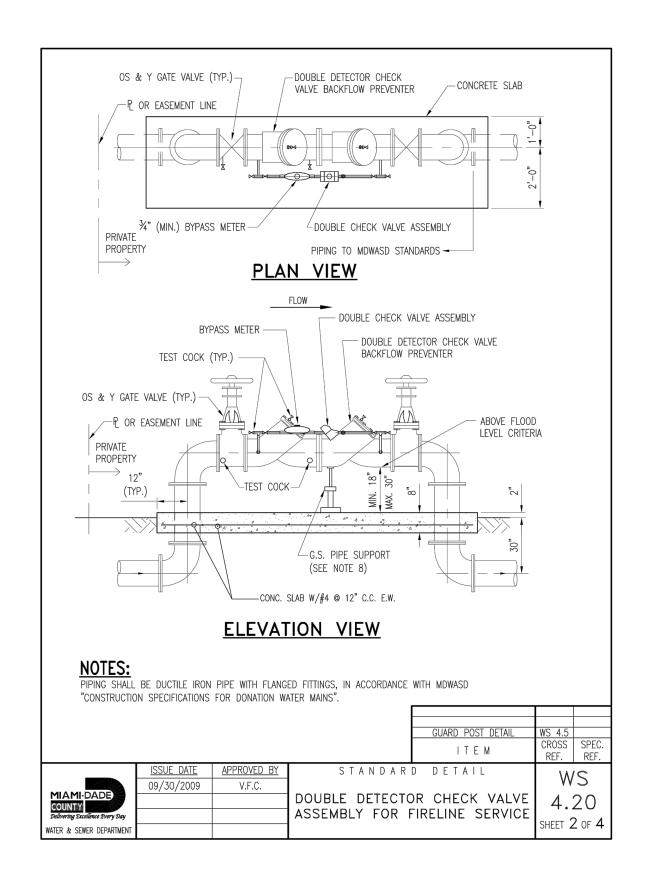
74655

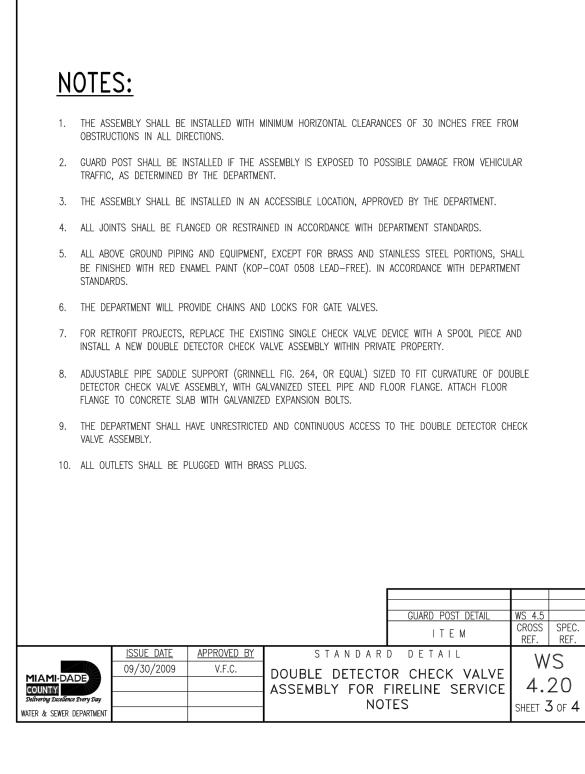
WATER & SEWER DETAILS

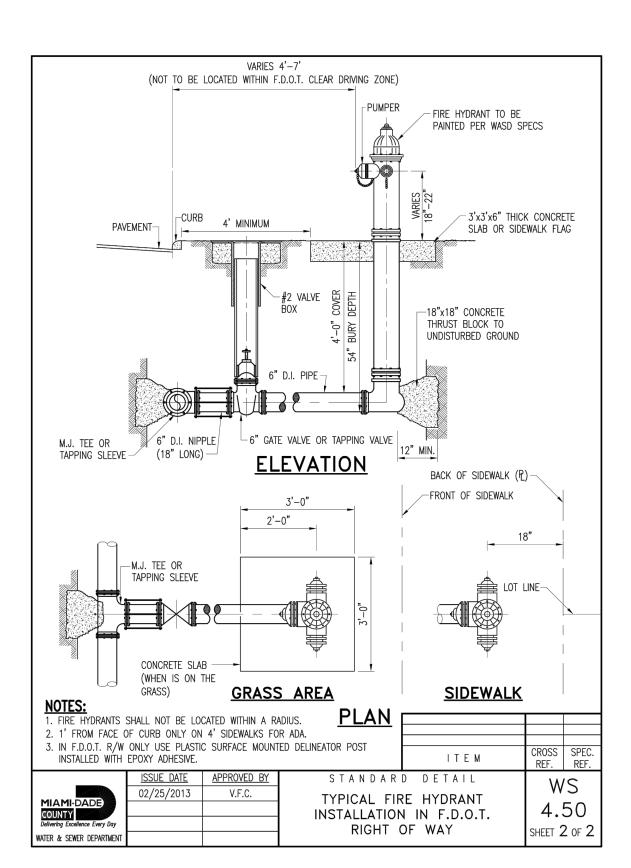
	Revision				
No.	Date	Description			
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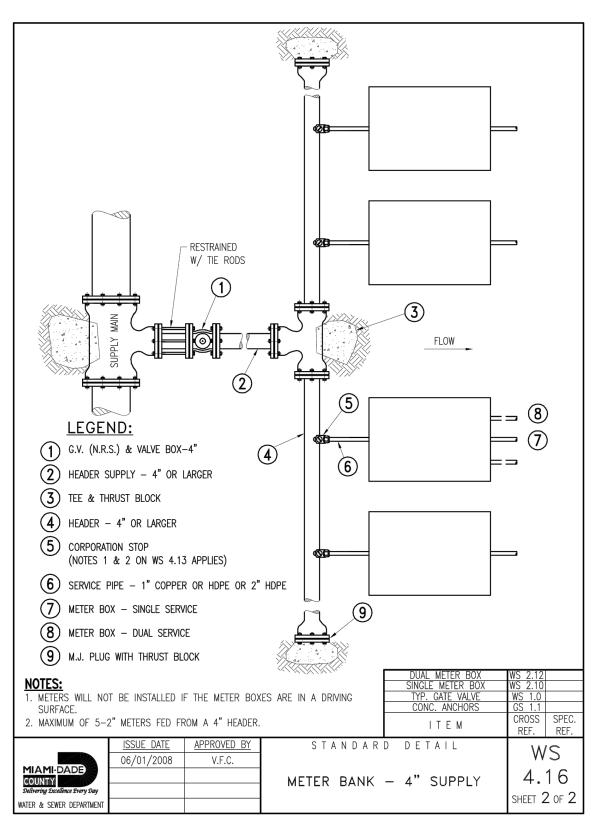
C500.4

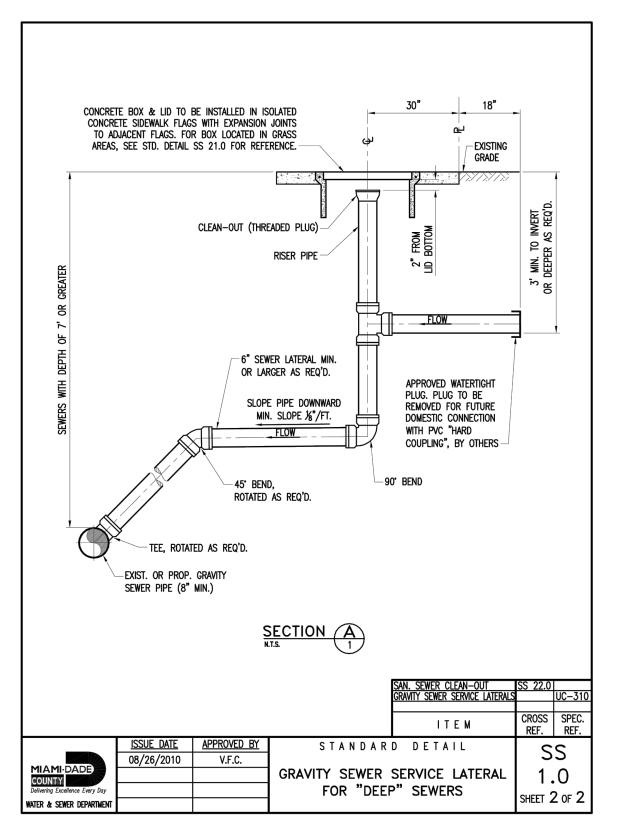


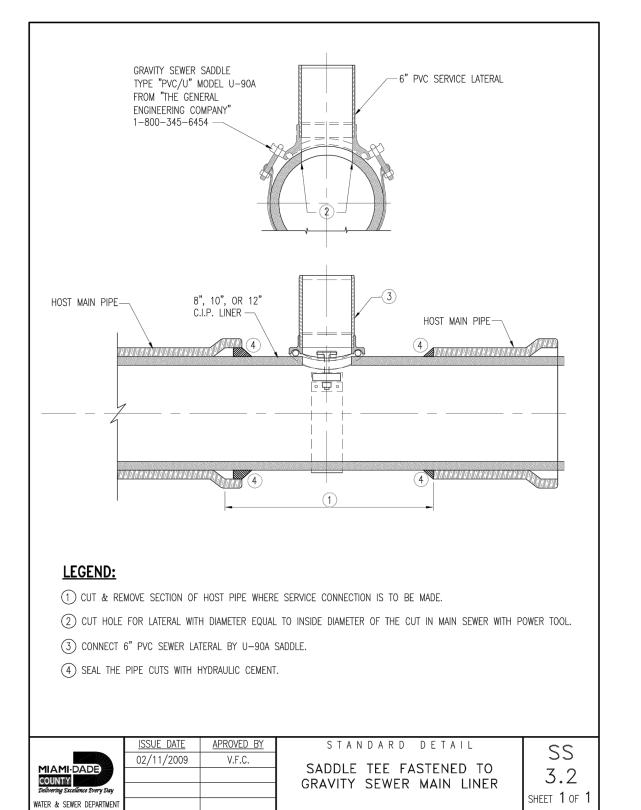


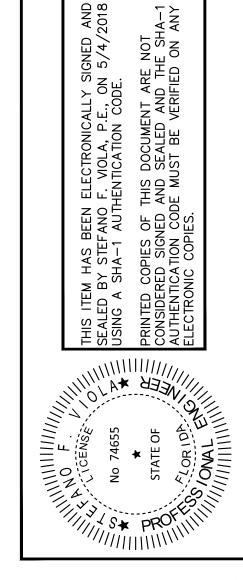












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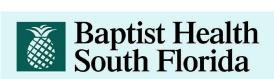
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5/4/2018

WATER & SEWER DETAILS

Revision					
No.	Date	Description			
	· ·				

C500.5

6" PVC C900 RISER

AS REQUIRED PER VALVE SIZE

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

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

END CONNECTION, EXTEND SLAB AT LEAST 2-INCHES FROM EACH END, FLANGE OR M.J.

(4) DIELECTRIC NIPPLE IPS X CTS GROOVE: GRUVLOCK- DILOK FLG. 7091, OR APPROVED EQUAL.

ONE FOOT TO PROVIDE SUPPORT FOR THE FLUSHING CONNECTION ISOLATION VALVE. AT THE VALVE

___THD. BRASS PLUG

—THD. BRASS COUPLING

___No. 3 VALVE BOX & LID

w/o RISER STD. DET. WS 3.11

-BRASS PIPE

EXISTING

CONNECTION -

COMPACTED FILL

ITEM

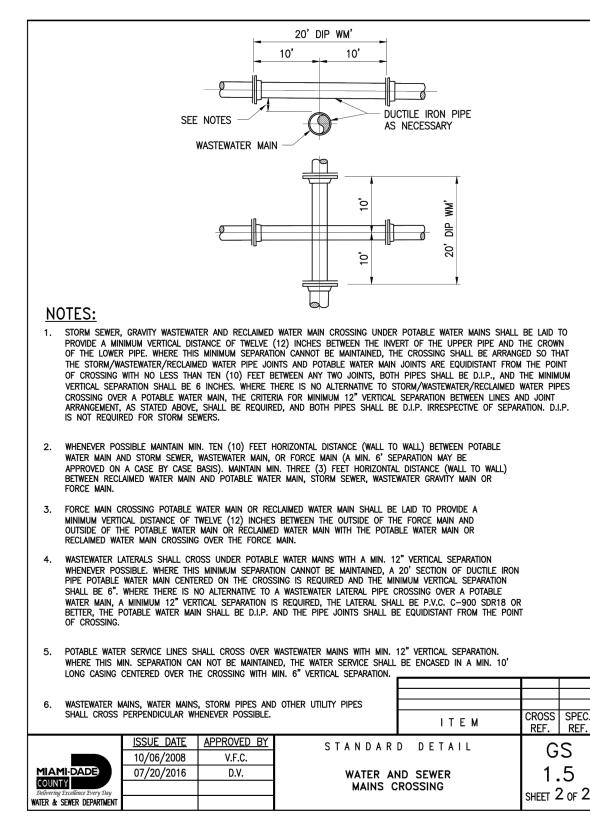
4.70

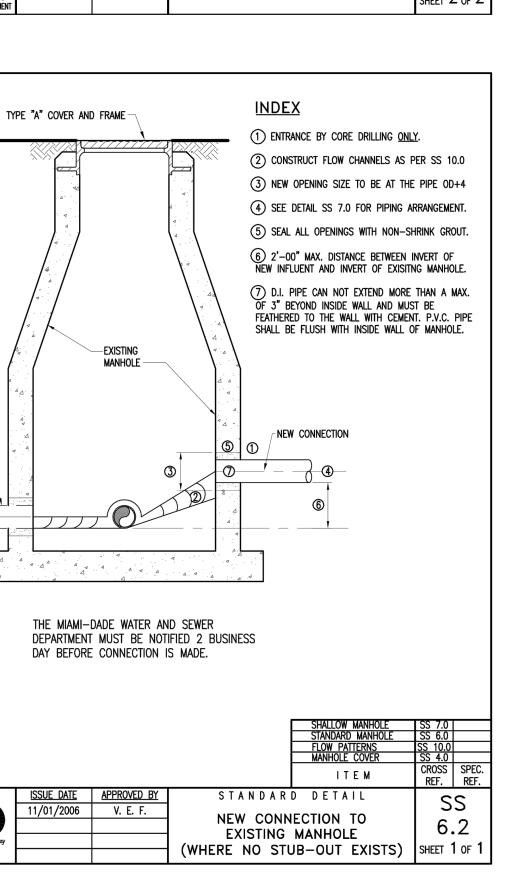
SHEET 1 OF 1

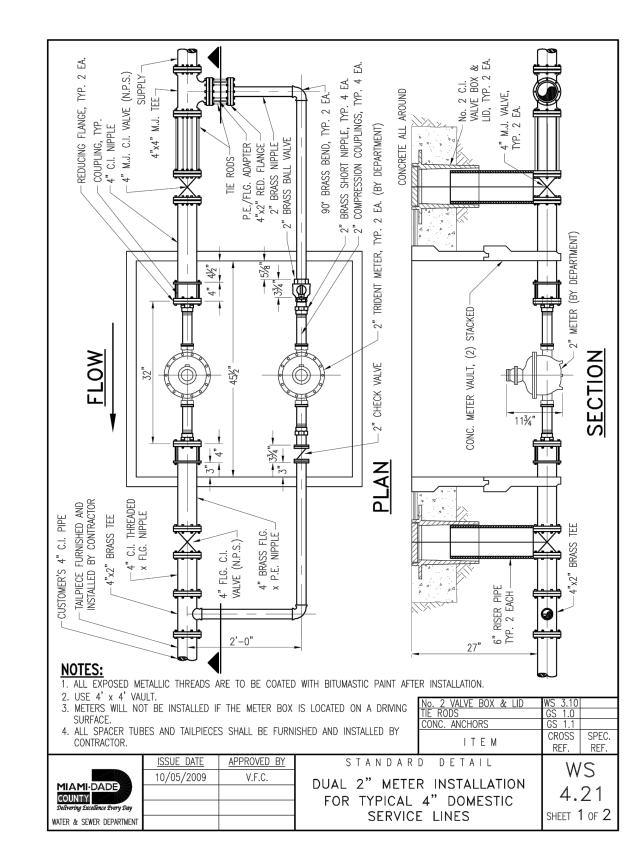
R.S. GATE VALVE FLUSHING

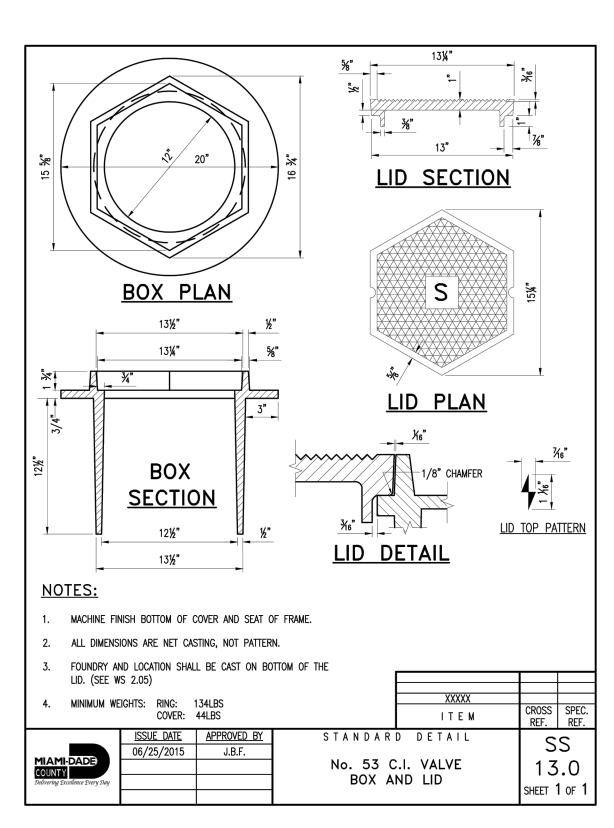
PORT CONNECTION IN

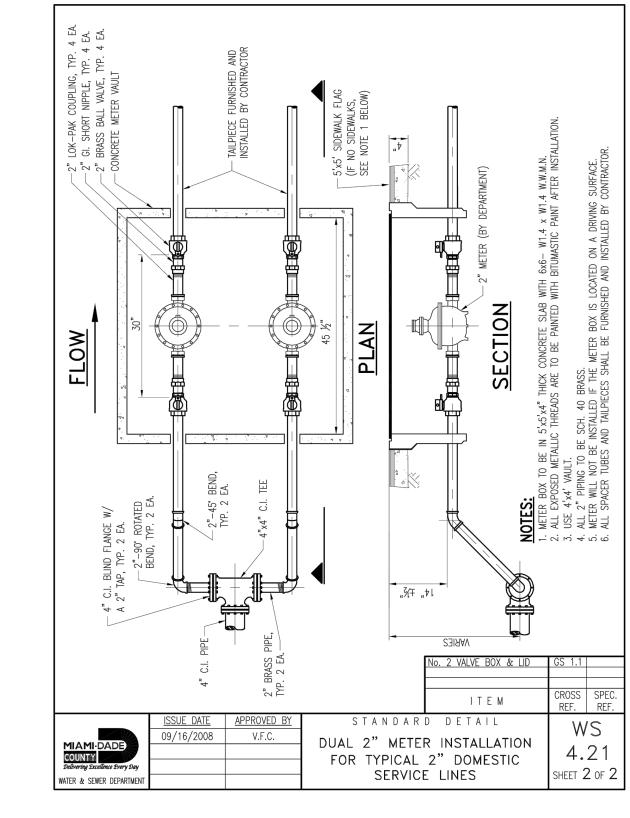
HORIZONTAL POSITION

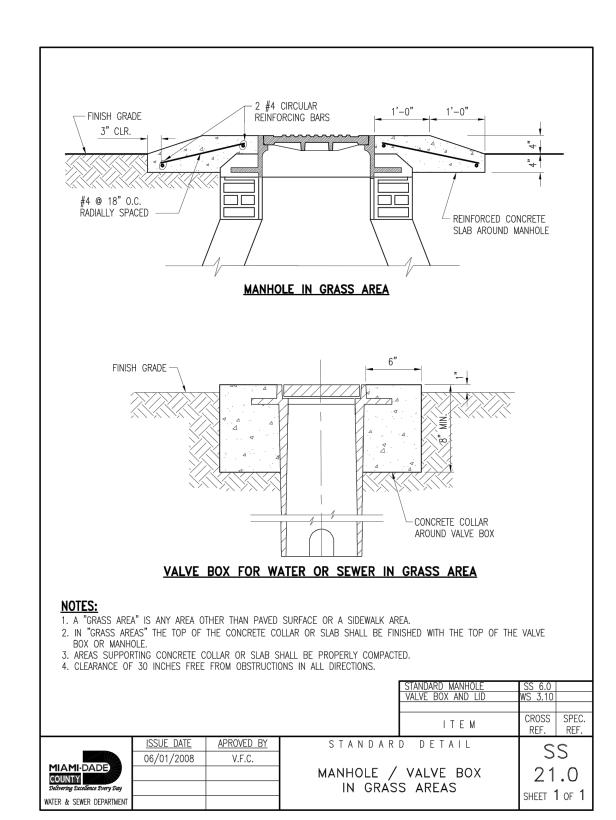


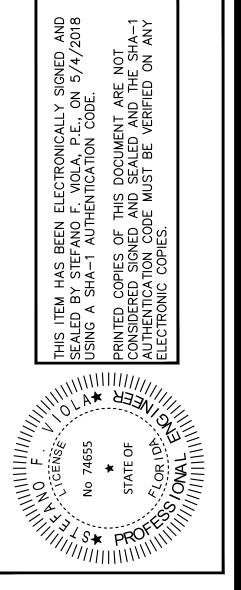




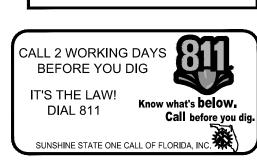








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5/4/2018

74655

WATER & SEWER DETAILS

Revision				
No.	Date	Description		

C500.6

PROJECT: 144429018 DATE: 05/03/2018

No. 3 VALVE BOX & LID

GATE VALVE (W/ BEVEL]

#4 @ 12" O.C. E.W. T. & B.-

REINFORCED CONCRETE SLAB

MATERIAL CODES AND COMMENTS:

(3) STAINLESS 304 THREADED SHORT NIPPLE.

PORT DIAMETER SHALL BE SIZED ACCORDING TO THE VALVE SIZE.

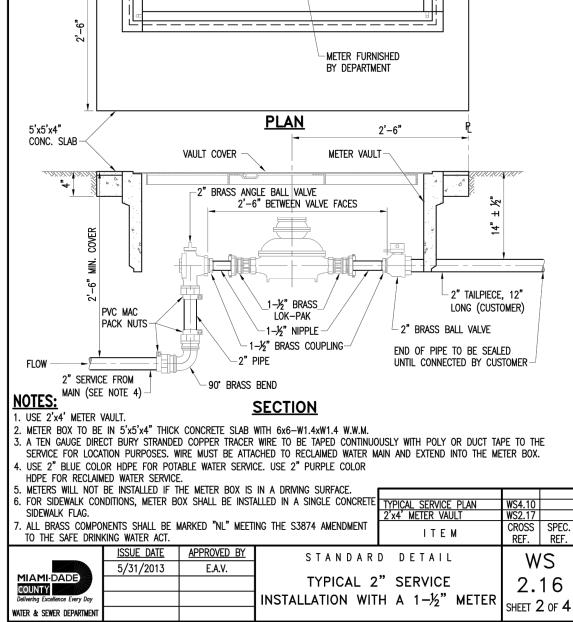
(5) COPPER OR BRASS NIPPLE. AT LEAST ONE END THREADED.

STD. DET. WS 3.11 - SS 21.0 ----

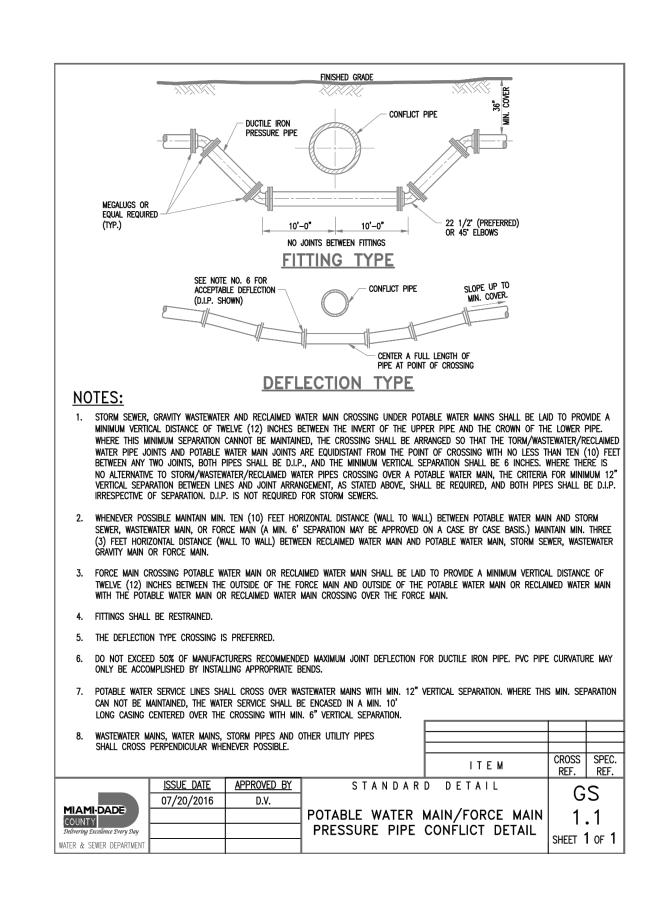
10" D.I. RISER PIPE

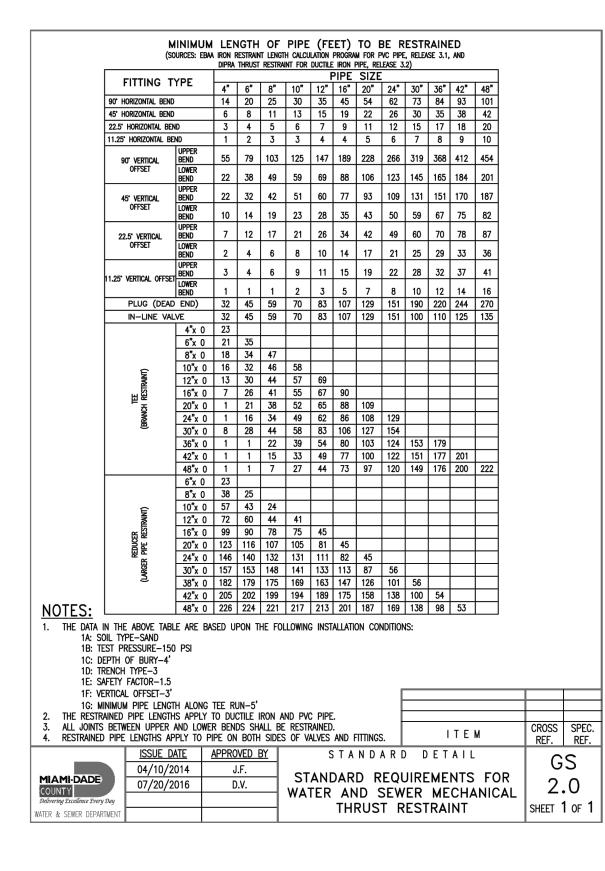
(CLASS 50 MIN.)—

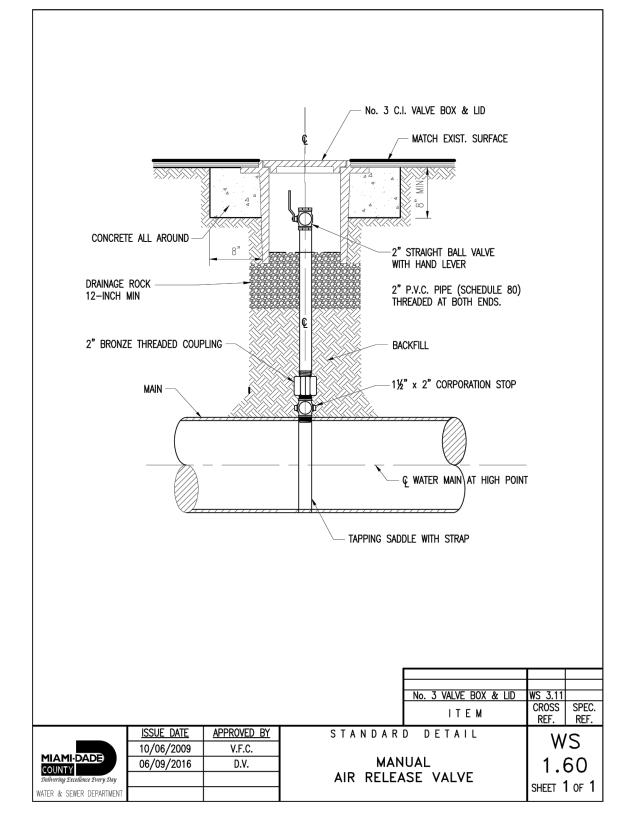
WATER & SEWER DEPARTMENT



-SIDEWALK CONSTRUCTION









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5/4/2018

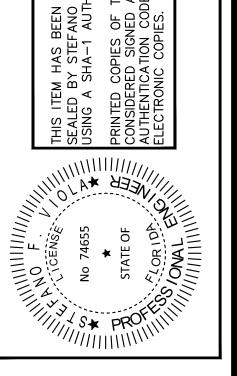
WATER & SEWER DETAILS

	Revision			
No.	No. Date Description			

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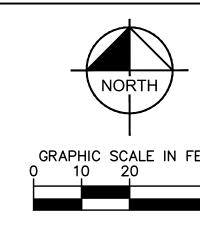
IT'S THE LAW!
DIAL 811

Know what's below. C500.7 **DIAL** 811 Call before you dig. PROJECT: 144429018 DATE: 05/03/2018



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PROPERTY LINE

PROPOSED SIGN & POST

PROPOSED BUILDING OVERHANG

PROPOSED CONCRETE

PROPOSED PAVERS

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

PROPOSED BUILDING CANOPY

PROPOSED ASPHALT PAVEMENT

CENTER LINE

LEGEND



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5/4/2018

PAVEMENT MARKING & SIGNAGE PLAN

<u> </u>	0. 010.17.102 1 27.11			
Revision				
No.	Date	Description		
1	3/21/18	SITE PLAN COMMENTS		
2	5/03/18	SITE PLAN COMMENTS		

C600.0

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BEFORE YOU DIG
IT'S THE LAW!

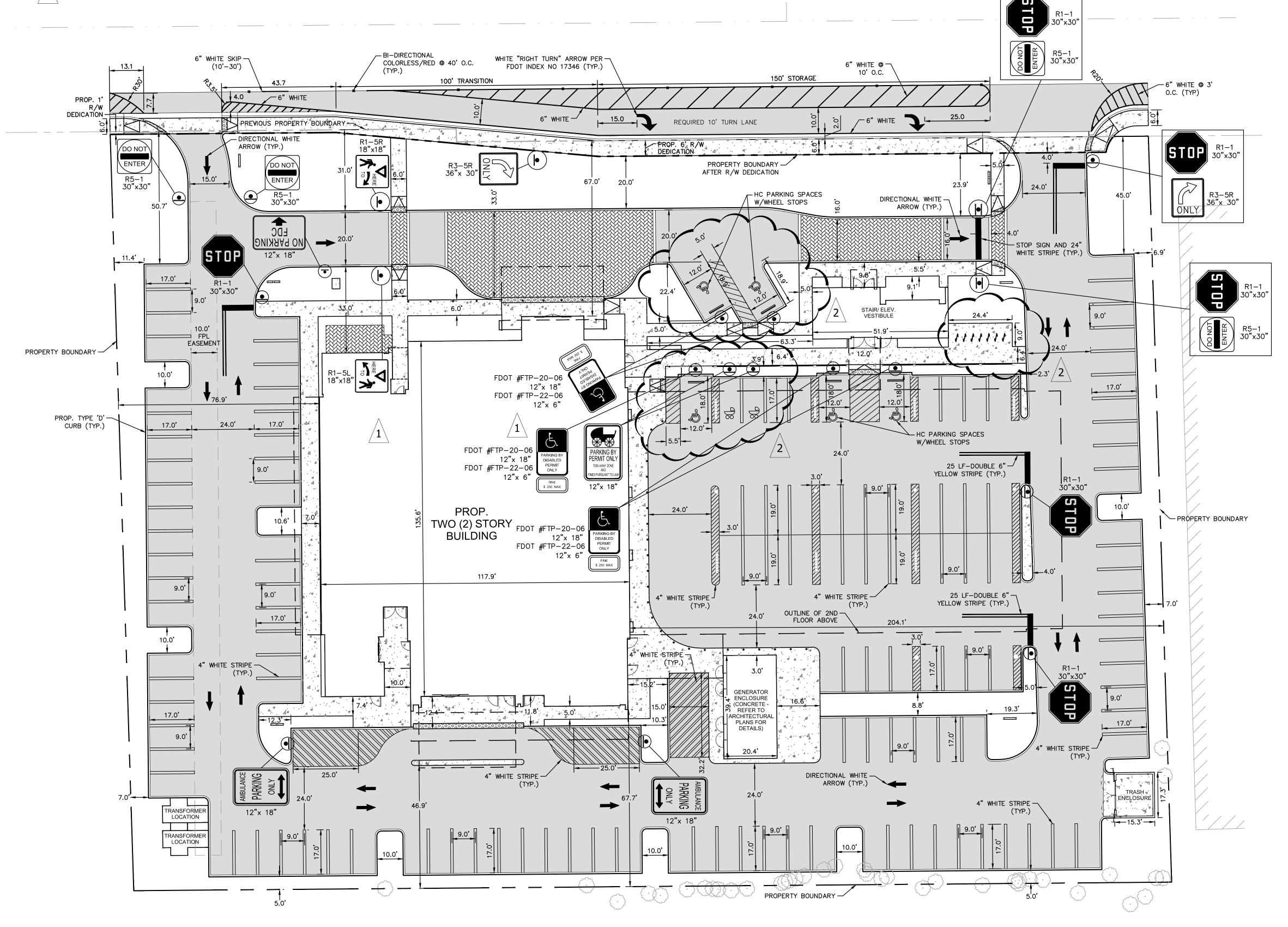
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Know what's below.

Call before you dig.

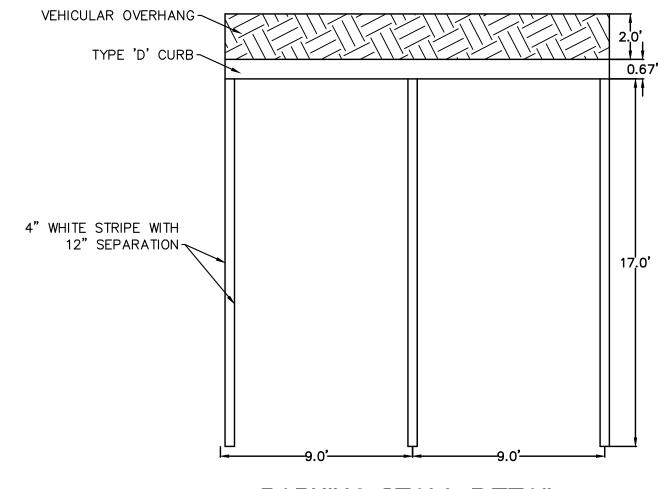
IT'S THE LAW!

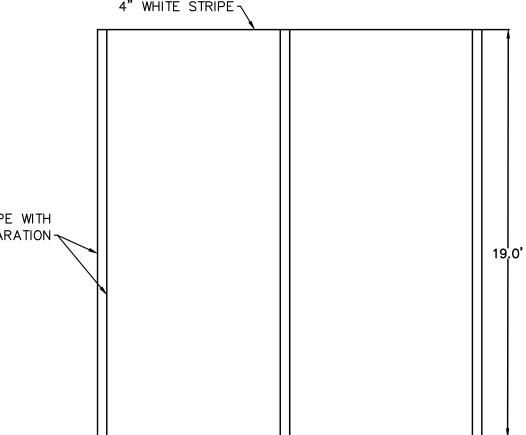
DIAL 811

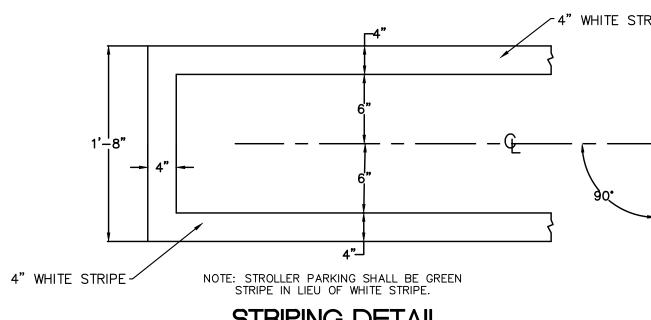


SIGN QUANTITY

SIGN SYMBOL	SIGN NUMBER AND DIMENSIONS	QUANTITY	
STOP	R1-1 30"× 30"	6	
PARKING BY DISABLED PERMIT ONLY FINE \$ 250 MAX	FDOT #FTP-20-06 12"x 18" FDOT #FTP-22-06 12"x 6"	5	
NO PARKING FDC	CUSTOM 12"x 18"	1	
AMBULANCE PARKING ONLY	CUSTOM 12"x 18"	2	
DO NOT ENTER	R5-1 30"x 30"	4	
WHITE ON GREEN PARKING BY PERMIT ONLY TOW AWAY ZONE AND FINES PURSUANT TO LAW	CUSTOM 12"x 18"	2	2
ONLY	R5-1 30"x 30"	2	
HERE	R1-5R 18"× 18"	1	
HERE TO	R1-5L 18"x 18"	1	

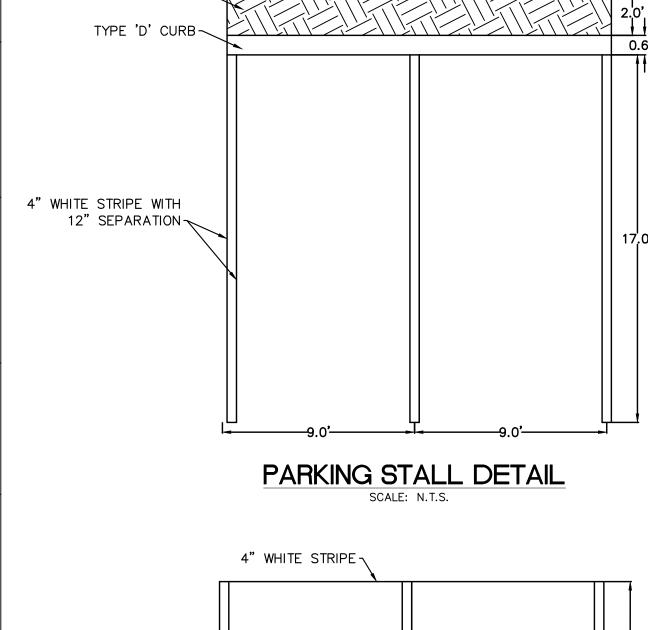


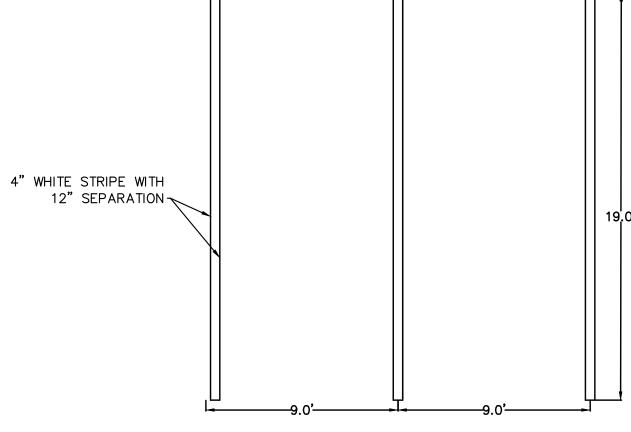




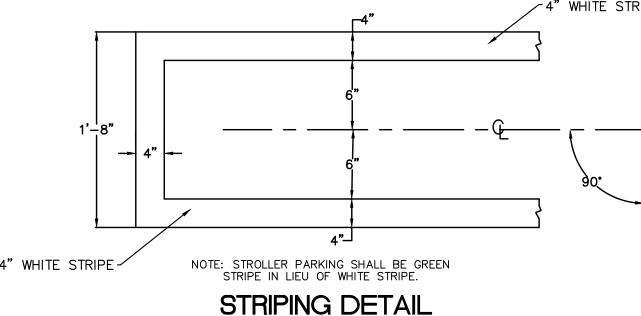
GENERAL NOTES:

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

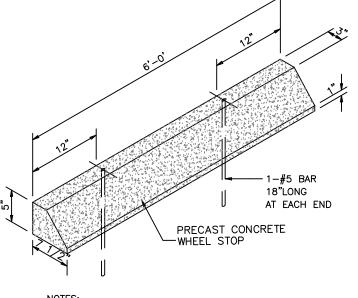




COVERED PARKING STALL DETAIL



SCALE: N.T.S.



1. WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER

2. CONCRETE STRENGTH SHALL BE 3,000 P.S.I.

WHEELSTOP DETAIL SCALE: N.T.S.

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

| 3' or 5' square MANDATORY White Paint NOTES: 2. DIMENSIONS SHOWN ARE TO THE CENTERLINE OF THE STRIPE.

Edge <u>of pavement</u>

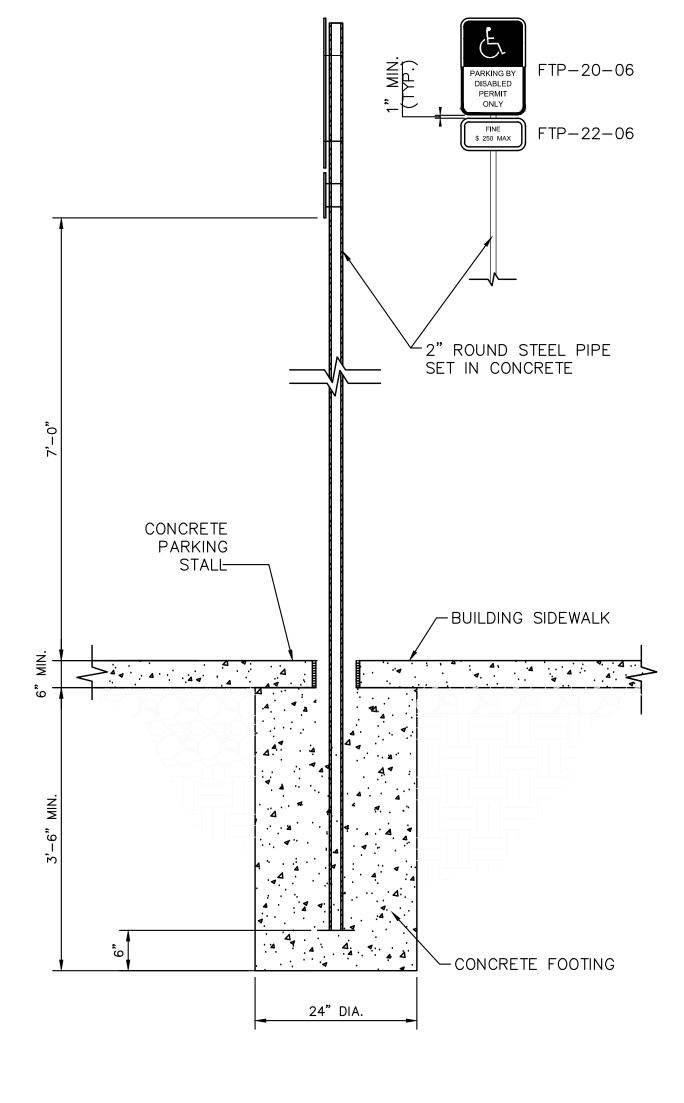
1. STRIPING IS TO BE PAINT, CONFORMING WITH FDOT SPECIFICATIONS.

3-6" White-

Chevron Equally

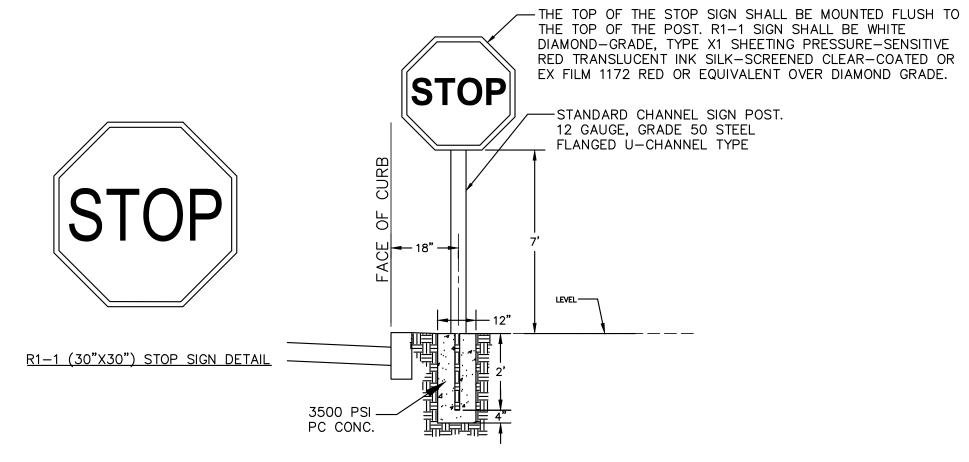
Spaced Per Aisle

- 3. 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.
- 4. CONCRETE FOOTING SHALL BE PORTLAND CEMENT CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- 5. 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.



SECTION VIEW

ACCESSIBLE PARKING STALL STRIPING AND SIGNAGE N.T.S.



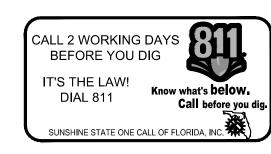
SIGN ADJACENT TO PAVEMENT WITH CURB

NOTE:

1. 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

R1-1 STOP SIGN AND LOCATION

N.T.S.





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 Suite 1200 Coral Gables, Florida 33134 786.532.2100

FIRM'S FLORIDA CERT. NO. AAP000034/CA3806 IB26000797/LC26000381

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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

PAVEMENT MARKING & SIGNAGE DETAILS

Revi	sion				
	Revision				
Date	Description				
·					
·					

C600.1