

# CONSTRUCTION PLANS WESTSIDE APARTMENTS NEW SMYRNA BEACH, FLORIDA

PARCEL I.D. No. VALUE  
SITE VICINITY MAP



NOT TO SCALE

PROPERTY LOCATION:	GREENLAWN STREET, NEW SMYRNA BEACH FL, 32168
PROPERTY ZONING:	R-4
PROPERTY FUTURE LAND USE DESIGNATION:	HIGH DENSITY RESIDENTIAL
EXISTING USE:	CITY HOUSING DEVELOPMENT
PROPOSED USE:	80 BEDS ALF WITH 58 EXISTING MF UNITS
PROJECT AREA:	6.55 ACRES
PROPOSED DENSITY:	14 UNITS/AC
PROPOSED GROSS FLOOR AREA	29,043 S.F.

UTILITY COMPANIES

WATER:	(386) 424-3026	UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH
SEWER:	(386) 424-3026	UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH
ELECTRIC:	(386) 424-3026	UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH
TELEPHONE:	(561) 997-0240	AT&T
CABLE:	(386) 446-1420	BRIGHT HOUSE NETWORK, LLC
GAS:	(386) 668-9364	FLORIDA PUBLIC UTILITIES CO.



5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325

www.feg-inc.us

DESCRIPTION:

PARCEL I  
BEGIN AT A POINT ON THE SOUTH LINE OF THE MARTIN GRANT, SAID POINT BEING NORTH 74° EAST A DISTANCE OF 313 FEET FROM THE NORTHWEST CORNER OF UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, THENCE SOUTH 23°28' EAST A DISTANCE OF 615.77 FEET; THENCE SOUTH 67°55'40" WEST A DISTANCE OF 242.92 FEET; THENCE NORTH 1°45' WEST, A DISTANCE OF 656.44 FEET TO THE POINT OF BEGINNING, LYING AND BEING IN UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, VOLUSIA COUNTY, FLORIDA.

NOTE: PARCEL II IS THE SAME LAND AS PARCEL I AND PARCEL III COMBINED.

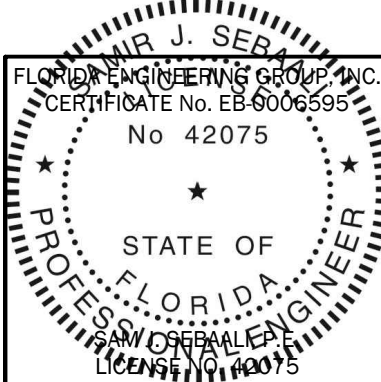
PARCEL III  
BEGIN AT THE NORTHWEST CORNER OF UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, THENCE NORTH 74° EAST ALONG THE SOUTH LINE OF THE MARTIN GRANT A DISTANCE OF 313 FEET; THENCE SOUTH 1°45' EAST A DISTANCE OF 656.44 FEET; THENCE SOUTH 67°55'40" WEST A DISTANCE OF 346.34 FEET TO THE WEST LINE OF SAID UNITED STATES LOT ONE (1); THENCE NORTH ALONG THE WEST LINE OF SAID UNITED STATES LOT ONE (1) A DISTANCE OF 700 FEET TO THE POINT OF BEGINNING, BEING IN UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, VOLUSIA COUNTY, FLORIDA.

NOTE: PARCEL IV IS PART OF THE LAND DESCRIBED BELOW.

THE FOLLOWING DESCRIPTION IS PER SURVEY PREPARED BY WILLIAM E. SWOOPE, JR., REGISTERED SURVEYOR #417, DATED SEPTEMBER 26, 1960, REVISED MARCH 7, 1961, PROJECT: FLA 22-4, PROVIDED BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA, BEACH:

PROPERTY IN U.S. LOTS 1 AND 3, SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, DESCRIBED AS FOLLOWS:

BEGIN AT A POINT ON THE WEST LINE OF SAID U.S. LOTS 1 AND 3, SAID POINT BEING 700 FEET SOUTH OF THE NORTHWEST CORNER OF SAID U.S. LOT 1; THENCE N67°55'40"E, 531.00 FEET TO THE WEST RIGHT OF WAY OF BROOKS STREET; THENCE S16°14"E ALONG SAID WEST RIGHT OF WAY 662.17 FEET; THENCE S80°51'40"W, 128.62 FEET TO THE CORPORATE LINE OF THE CITY OF NEW SMYRNA BEACH, FLORIDA; THENCE N16°32'20"W ALONG SAID CORPORATE LINE 100.08 FEET; THENCE S80°51'40"W ALONG SAID CORPORATE LINE 220.48 FEET TO THE WEST RIGHT OF WAY OF GREENLAWN AVENUE; THENCE N08°22'20"W ALONG SAID WEST RIGHT OF WAY 3.42 FEET; THENCE S80°51'40"W 294.48 FEET; THENCE NORTH, 349.82 FEET; THENCE S73°57'W, 13 FEET TO THE WEST LINE OF SAID U.S. LOTS 1 AND 3; THENCE NORTH ALONG SAID WEST LINE 93 FEET TO THE POINT OF BEGINNING.



THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBAALI, P.E. ON JANUARY XX, 2021 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SAM J. SEBAALI, P.E.  
LICENSE NO. 42075

## PLAN INDEX

## ARCHITECTURAL DRAWINGS

## CIVIL DRAWINGS

# C-1A COVER SHEET

## C-1B PLAN SHEET INDEX

## C-2A BOUNDARY & TOPOGRAPHIC SURVEY (1 OF 4)

## C-2B BOUNDARY & TOPOGRAPHIC SURVEY (2 OF 4)

## C-2C BOUNDARY & TOPOGRAPHIC SURVEY (3 OF 4)

## C-2D BOUNDARY & TOPOGRAPHIC SURVEY (4 OF 4)

### C-3A LEGEND, NOTES AND SPECIFICATIONS (1 OF 2)

### C-3B LEGEND, NOTES AND SPECIFICATIONS (2 OF 2)

## C-4A SITE DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN

## C-4B SITE DEMOLITION AND STORMWATER POLLUTION PREVENTION NOTES

## C-5A SITE GEOMETRY PLAN

### C-5B SITE PARKING PLAN AND GEOMETRY NOTES

## C-6A SITE PAVING, GRADING, AND DRAINAGE PLAN

## C-6B SITE PAVING, GRADING, AND DRAINAGE NOTES

## C-7A SITE UTILITY PLAN

## C-7B SITE UTILITY NOTES

## C-8 SITE CONSTRUCTION DETAILS

## C-9A CITY DETAILS (1 OF 3)

## C-9B CITY DETAILS (2 OF 3)

### C-9C CITY DETAILS (3 OF 3)

**C-10A SITE CROSS SECTIONS (1 OF 2)**

**C-10B SITE CROSS SECTIONS (2 OF 2)**

## C-11 SITE SEWER UTILITY PROFILE

## L-1 SITE LANDSCAPE PLAN

## L-2 SITE IRRIGATION PLAN

[illegible]



# ALTA/NSPS LAND TITLE SURVEY

## GENERAL SURVEY NOTES:

1. BEARING STRUCTURE IS ASSUMED AND BASED ON THE MONUMENTED WEST R/W LINE OF BROOKS STREET, BEING S16°14'00"E PER PER DESCRIPTION SHOWN HEREON.
  2. THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS REPRESENTATIVE.
  3. THIS SURVEY WAS MADE ON THE GROUND. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ENGINEER AND CONTRACTOR SHALL VERIFY MEASUREMENTS OF CONNECTIONS TO EXISTING UTILITIES BEFORE ORDERING MATERIALS AND BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS A DISCREPANCY BETWEEN THE MEASUREMENTS SHOWN HEREON AND THE VERIFYING MEASUREMENTS, THIS SURVEYOR SHALL BE CONTACTED IMMEDIATELY TO FURTHER VERIFY THE DISCREPANCY.
  4. THIS SITE LIES IN ZONES "AE" AND "X-SHADED", BASED ON FLOOD INSURANCE RATE MAP NO. 12127C0540J AND 12127C0543J, COMMUNITY NO. 125132, CITY OF NEW SMYRNA BEACH, VOLUSIA COUNTY, FLORIDA, HAVING AN EFFECTIVE DATE OF SEPTEMBER 29, 2017.
  5. ACCORDING TO FLORIDA STATUTES, CHAPTER 472.025, A LAND SURVEYOR SHALL NOT AFFIX HIS SEAL OR NAME TO ANY PLAN OR DRAWING WHICH DEPICTS WORK WHICH HE IS NOT LICENSED TO PERFORM OR WHICH IS BEYOND HIS PROFESSION OR SPECIALTY THEREIN. THEREFORE, WE ARE UNABLE TO CERTIFY AS TO MUNICIPAL ZONING COMPLIANCE, INTERPRETATION OF ZONING CODES OR THE DETERMINATION OF VIOLATIONS THEREOF.
  6. AS TO PARCELS I, II, III & IV ONLY, THIS SURVEY WAS MADE WITH BENEFIT OF COMMITMENT FOR TITLE NO. 8874656, EFFECTIVE: OCTOBE 5, 2020, ISSUED BY CHICAGO TITLE INSURANCE COMPANY. EXCEPT AS NOTED, THE LEGAL DESCRIPTION SHOWN HEREON IS THE SAME AS THE LEGAL DESCRIPTION SET FORTH IN SCHEDULE A OF THE TITLE COMMITMENT REFERENCED HEREON.
  7. THIS **"BOUNDARY AND TOPOGRAPHIC SURVEY"** WAS MADE IN ACCORDANCE WITH LAWS AND/OR STANDARDS OF PRACTICE FOR THE STATE OF FLORIDA.
  8. OBSERVABLE SURFACE EVIDENCE OF UTILITIES SERVING THE PROPERTY AND STORM DRAINAGE FACILITIES ARE SHOWN HEREON.
  9. ALL PARCELS AND/OR LOTS SHOWN HEREON ARE CONTIGUOUS BETWEEN SAID PARCELS AND/OR LOTS AND DO NOT CREATE ANY GAPS, GORES OR HIATUSES.
  10. NO SURFACE EVIDENCE OF SITE USE AS A CEMETERY WAS OBSERVED.
  11. ELEVATIONS ARE BASED ON BENCHMARK DESIGNATION N 212 RESET, BEING: 5.72 FEET, NAVD 88, PUBLISHED BY NATIONAL GEODETIC SURVEY.
  12. THE MAPPED FEATURES SHOWN HEREON ARE RELATIVE TO ASSUMED HORIZONTAL DATUM.
- NOTES PERTAINING TO TABLE A ITEMS OF ALTA/NSPS LAND TITLE SURVEY STANDARDS:
- ITEM 16: NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR ADDITIONS WAS OBSERVED.
- ITEM 17: SURVEYOR IS NOT AWARE OF ANY PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES AND DID NOT OBSERVE ANY EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
- ITEM 19: CLIENT PROVIDED NO RECORDING INFORMATION FOR OFFSITE EASEMENTS.

## SIGNIFICANT OBSERVATIONS:

WITHOUT EXPRESSING A LEGAL OPINION AS TO OWNERSHIP OR NATURE, THE FOLLOWING SIGNIFICANT OBSERVATIONS ARE NOTED. ADDITIONAL ITEMS MAY BE DEPICTED HEREON THAT HAVE NOT BEEN INCLUDED IN THIS LIST:

THE PROPERTY BOUNDARIES AND LEGAL DESCRIPTIONS SHOWN HEREON ARE BASED ON:

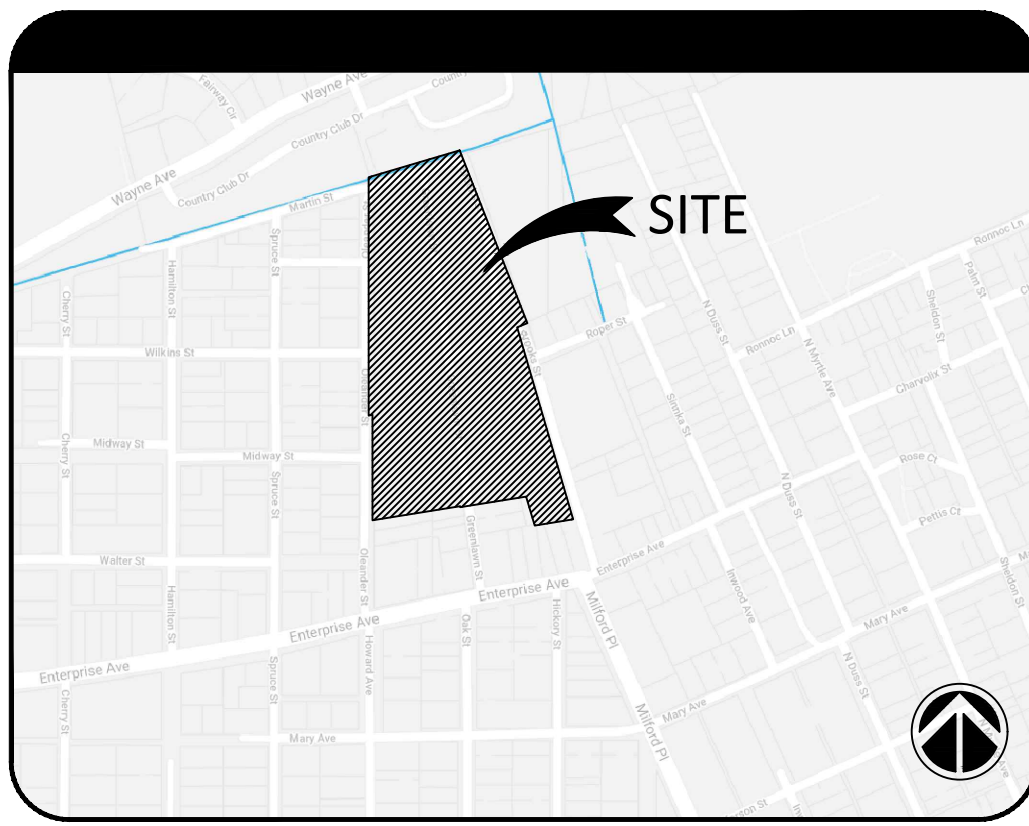
- SOUTHERLY PORTION: SURVEY PREPARED BY WILLIAM E. SWOOPE, JR., REGISTERED SURVEYOR #417, DATED SEPTEMBER 26, 1960, REVISED MARCH 7, 1961, PROJECT: FLA 22-4, PROVIDED BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA, BEACH.
- NORTHERLY PORTION: SURVEY PREPARED BY WILLIAM E. SWOOPE, JR., REGISTERED SURVEYOR #417, DATED NOVEMBER 3, 1952, PROJECT NO: FLA 22-1 & FLA 22-2, PROVIDED BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA, BEACH.

## ZONING INFORMATION:

ZONING INFORMATION NOT PROVIDED AT THE TIME OF SURVEY.

## SCHEDULE B-2 EXCEPTIONS NOTES:

6. TERMS AND CONDITIONS OF DECLARATION OF TRUST BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA BEACH, FLORIDA RECORDED IN DEED BOOK 488, PAGE 410. (DOCUMENT NOT PROVIDED)
7. TERMS AND CONDITIONS OF DECLARATION OF TRUST BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA BEACH, FLORIDA RECORDED IN DEED BOOK 3526, PAGE 774. (EXHIBIT A IS NOT ATTACHED TO THE DOCUMENT)
8. EASEMENT GRANTED TO UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FLORIDA RECORDED IN OFFICIAL RECORDS BOOK 3834, PAGE 3762. (APPEARS TO LIE ON PARCELS I AND III AND POSSIBLE IV, BUT THE LEGIBILITY OF THE LEGAL DESCRIPTION IS INSUFFICIENT TO PLOT ACCURATELY)
9. EASEMENT GRANTED TO UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FLORIDA RECORDED IN OFFICIAL RECORDS BOOK 4734, PAGE 1950. (ON SUBJECT PROPERTY AS SHOWN HEREON.)
10. EASEMENT GRANTED TO UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FLORIDA RECORDED IN OFFICIAL RECORDS BOOK 3834, PAGE 3761. (APPEARS TO LIE ON PARCELS I AND III AND POSSIBLE IV, BUT THE LEGIBILITY OF THE LEGAL DESCRIPTION IS INSUFFICIENT TO PLOT ACCURATELY)



## DESCRIPTION:

PARCEL I  
BEGIN AT A POINT ON THE SOUTH LINE OF THE MARTIN GRANT, SAID POINT BEING NORTH 74° EAST A DISTANCE OF 313 FEET FROM THE NORTHWEST CORNER OF UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, THENCE SOUTH 23°28' EAST A DISTANCE OF 615.77 FEET, THENCE SOUTH 67°55'40" WEST A DISTANCE OF 242.92 FEET, THENCE NORTH 1°45' WEST, A DISTANCE OF 656.44 FEET TO THE POINT OF BEGINNING, LYING AND BEING IN UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, VOLUSIA COUNTY, FLORIDA.

**NOTE: PARCEL II IS THE SAME LAND AS PARCEL I AND PARCEL III COMBINED.**

PARCEL III  
BEGIN AT THE NORTHWEST CORNER OF UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, THENCE NORTH 74° EAST ALONG THE SOUTH LINE OF THE MARTIN GRANT A DISTANCE OF 313 FEET; THENCE SOUTH 1°45' EAST A DISTANCE OF 656.44 FEET; THENCE SOUTH 67°55'40" WEST A DISTANCE OF 346.34 FEET TO THE WEST LINE OF SAID UNITED STATES LOT ONE (1); THENCE NORTH ALONG THE WEST LINE OF SAID UNITED STATES LOT ONE (1) A DISTANCE OF 700 FEET TO THE POINT OF BEGINNING, BEING IN UNITED STATES LOT ONE (1), SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, VOLUSIA COUNTY, FLORIDA.

**NOTE: PARCEL IV IS PART OF THE LAND DESCRIBED BELOW.**

**THE FOLLOWING DESCRIPTION IS PER SURVEY PREPARED BY WILLIAM E. SWOOPE, JR., REGISTERED SURVEYOR #417, DATED SEPTEMBER 26, 1960, REVISED MARCH 7, 1961, PROJECT: FLA 22-4, PROVIDED BY THE HOUSING AUTHORITY OF THE CITY OF NEW SMYRNA, BEACH:**

PROPERTY IN U.S. LOTS 1 AND 3, SECTION 18, TOWNSHIP 17 SOUTH, RANGE 34 EAST, DESCRIBED AS FOLLOWS:

BEGIN AT A POINT ON THE WEST LINE OF SAID U.S. LOTS 1 AND 3, SAID POINT BEING 700 FEET SOUTH OF THE NORTHWEST CORNER OF SAID U.S. LOT 1; THENCE N67°55'40"E, 531.00 FEET TO THE WEST RIGHT OF WAY OF BROOKS STREET; THENCE S16°14"E ALONG SAID WEST RIGHT OF WAY 662.17 FEET; THENCE S80°51'40"W, 128.62 FEET TO THE CORPORATE LINE OF THE CITY OF NEW SMYRNA BEACH, FLORIDA; THENCE N16°32'20"W ALONG SAID CORPORATE LINE 100.08 FEET; THENCE S80°51'40"W ALONG SAID CORPORATE LINE 220.48 FEET TO THE WEST RIGHT OF WAY OF GREENLAWN AVENUE; THENCE N08°22'20"W ALONG SAID WEST RIGHT OF WAY 3.42 FEET; THENCE S80°51'40"W 294.48 FEET; THENCE NORTH, 349.82 FEET; THENCE S73°57"W, 13 FEET TO THE WEST LINE OF SAID U.S. LOTS 1 AND 3; THENCE NORTH ALONG SAID WEST LINE 93 FEET TO THE POINT OF BEGINNING.

F.E.G. PROJECT NO.  
**20-145**

SHEET NO.  
**C-2A**  
SHEET 3 OF 25

## ALTA/NSPS Land Title Survey Certification

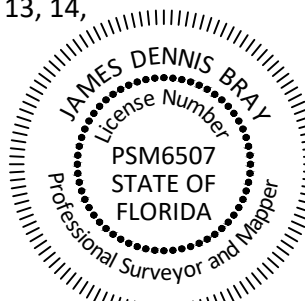
To: Westside Phase 1, LLLP; Chicago Title Insurance Company; Saxon Gilmore & Carraway

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b1), 7(c), 8, 9, 11, 13, 14, 16, 17, 19 and 20 of Table A thereof. The field work was completed on December 3, 2020.

Date: December 3, 2020

JAMES D. BRAY PSM 6507

This Survey is "Not Valid" without the signature and the original raised seal of this Florida licensed Surveyor and Mapper, unless provided with electronic signature with the ability to validate. (See: [www.altamxsurveying.com](http://www.altamxsurveying.com) for instructions on signature validation). The seal appearing on this document was authorized by the signing Professional Surveyor and Mapper on the Date of the electronic signature.



### ADDRESS:

600 Greenlawn Street  
New Smyrna Beach, FL

JOB NO. 903905

CF NO. VLS-600 Greenlawn St

FIELD DATE: 12/3/2020

SCALE: 1" = 30'

DRAWN BY: SAH

Date:	Description	By:

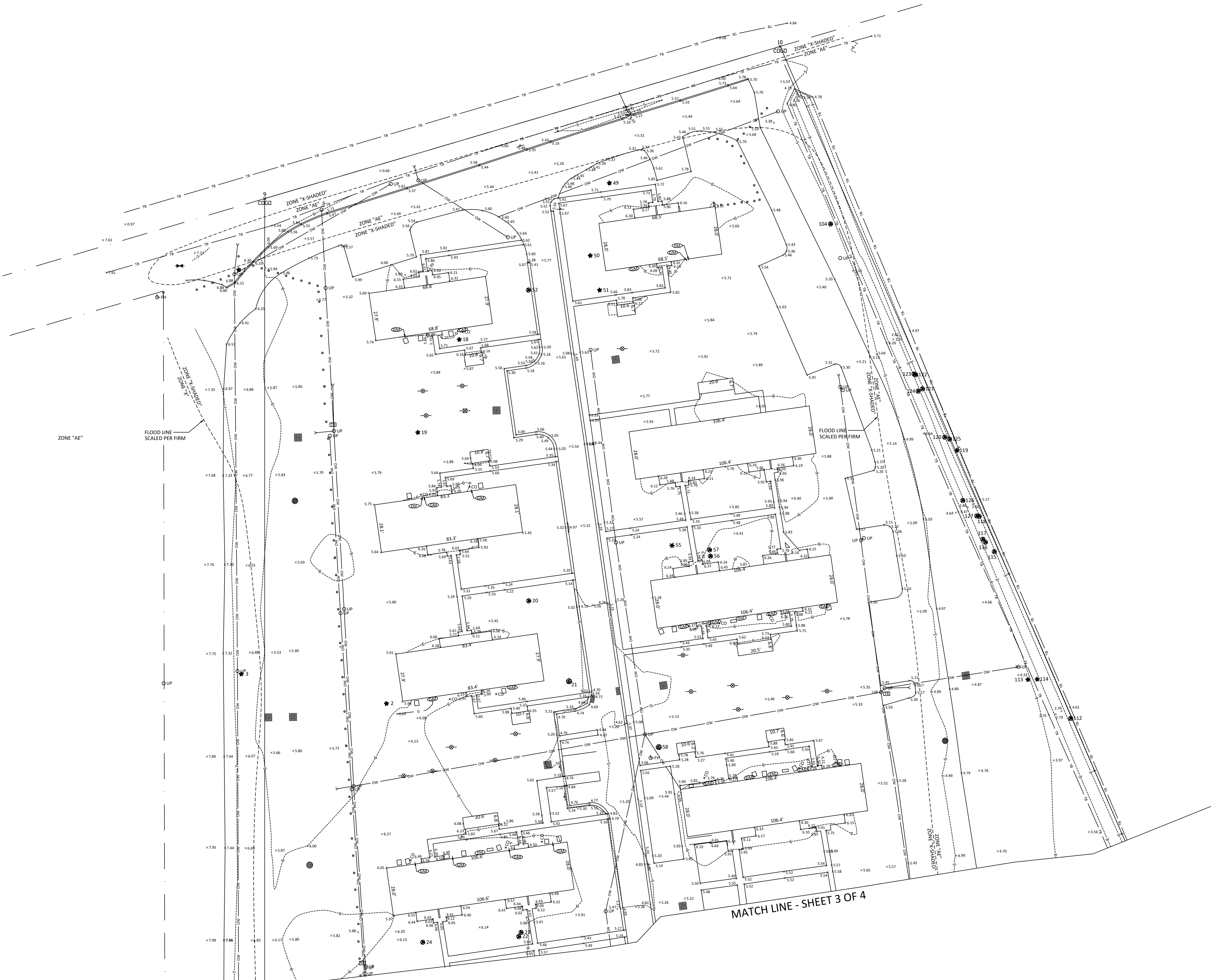
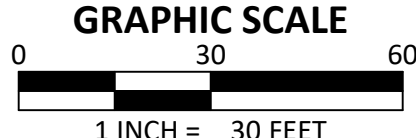
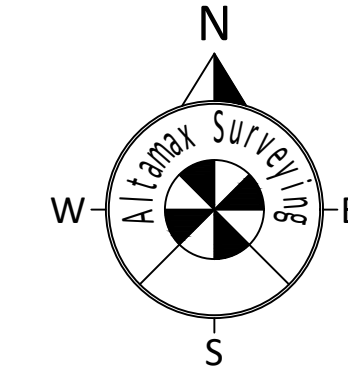
## Altamax Surveying

910 Belle Avenue, Suite 1100  
Casselberry, FL 32708  
Phone: 407-677-0200  
Licensed Business No. 7833  
[www.altamxsurveying.com](http://www.altamxsurveying.com)



ALTA/NSPS LAND TITLE SURVEY

- TREE CHART
- 1- 12' PALM
  - 2- 6' PALM
  - 3- 15' PALM
  - 4- 15' PALM
  - 5- 18' PALM
  - 6- 20' OAK
  - 7- 20' OAK
  - 8- 30' OAK
  - 9- 20' OAK
  - 10- 60' OAK CLUSTER
  - 11- 18' OAK
  - 12- 36' OAK
  - 13- 4" CYPRESS
  - 14- 18' PALM
  - 17- 10' PALM
  - 18- 6' PALM
  - 19- 6' PALM
  - 20- 30' OAK
  - 21- 36' OAK CLUSTER
  - 22- 18' OAK
  - 23- 20' OAK
  - 24- 18' OAK
  - 25- 6' PALM
  - 26- 30' MAPLE CLUSTER
  - 27- 18' PALM
  - 28- 20' PALM CLUSTER
  - 29- 6' PALM
  - 35- 7' PALM
  - 39- 6' PALM
  - 40- 6' PALM
  - 41- 6' PALM
  - 42- 6' PALM
  - 43- 6' PALM
  - 44- 6' PALM
  - 45- 6' PALM
  - 47- 62' OAK
  - 48- 40' OAK
  - 49- 8' PALM
  - 50- 10' PALM
  - 51- 8' PALM
  - 52- 52' OAK
  - 55- 30' PINE
  - 56- 16' OAK
  - 57- 17' OAK
  - 58- 8' UNIDENTIFIED CLUSTER
  - 59- 48' OAK
  - 60- 9' PALM
  - 61- 8' PALM
  - 64- 8' PALM
  - 67- 30' OAK
  - 68- 52' OAK
  - 70- 9' PALM
  - 71- 9' PALM
  - 72- 9' PALM
  - 73- 9' PALM
  - 74- 9' PALM
  - 75- 9' PALM
  - 76- 9' PALM
  - 77- 9' PALM
  - 78- 9' PALM
  - 79- 9' PALM
  - 80- 12' PALM
  - 81- 9' PALM
  - 82- 12' PALM
  - 83- 12' PALM
  - 84- 48' OAK
  - 85- 36' OAK
  - 86- 90' OAK
  - 87- 9' PALM
  - 89- 9' PALM
  - 90- 9' PALM
  - 95- 10' PALM
  - 96- 10' PALM
  - 97- 10' PALM
  - 98- 52' OAK
  - 99- 35' OAK
  - 100- 37' OAK
  - 102- 10' PALM
  - 104- 24' OAK
  - 105- 18' OAK
  - 106- 18' OAK
  - 107- 18' OAK
  - 108- 15' PALM
  - 109- 12' PALM
  - 110- 12' PALM
  - 111- 12' PALM
  - 112- 24' OAK
  - 113- 12' PALM
  - 114- 10' PALM
  - 115- 24' OAK
  - 116- 7' OAK
  - 117- 7' OAK
  - 118- 24' OAK
  - 119- 6' PALM
  - 120- 18' OAK
  - 121- 15' OAK
  - 122- 12' OAK
  - 123- 18' OAK
  - 124- 18' OAK
  - 125- 24' OAK
  - 126- 17' OAK
  - 127- 17' OAK
  - 128- 13' OAK
  - 129- 18' OAK
  - 130- 18' OAK
  - 131- 14' PALM
  - 132- 14' PALM
  - 133- 15' PALM
  - 134- 15' PALM
  - 135- 14' PALM
  - 136- 12' PALM
  - 137- 14' PALM
  - 138- 14' PALM
  - 139- 14' PALM
  - 140- 8' OAK
  - 141- 8' OAK
  - 142- 8' OAK
  - 143- 15' PALM
  - 144- 18' PALM
  - 145- 30' OAK
  - 146- 8' OAK
  - 147- 12' OAK
  - 148- 42' OAK
  - 149- 15' PALM
  - 150- 30' OAK
  - 151- 12' PALM
  - 152- 26' OAK
  - 153- 26' OAK
  - 154- 14' PALM
  - 155- 12' PALM
  - 156- 30' OAK
  - 157- 14' PALM
  - 158- 10' PALM



MATCH LINE - SHEET 3 OF 4

MATCH LINE - SHEET 3 OF 4

ADDRESS:  
600 Greenlawn Street  
New Smyrna Beach, FL

JOB NO. 903905  
CF NO. VLS-600 Greenlawn St  
FIELD DATE: 10/13/2020  
SCALE: 1" = 30'  
DRAWN BY: SAH

**Altamax Surveying**  
910 Belle Avenue, Suite 1100  
Casselberry, FL 32708  
Phone: 407-677-0200  
Licensed Business No. 7833  
www.altamaxsurveying.com

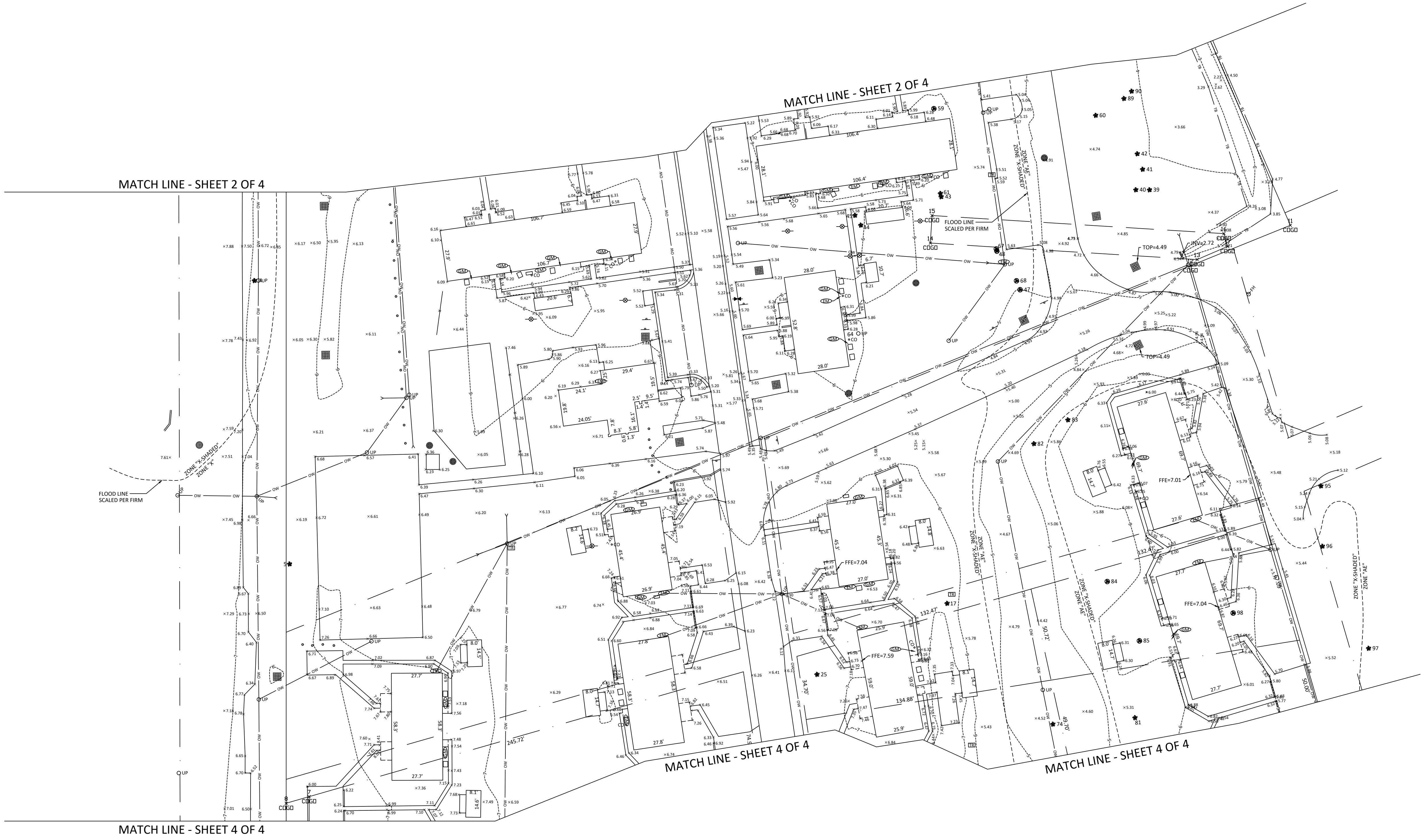
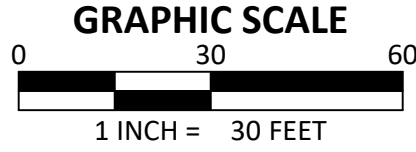
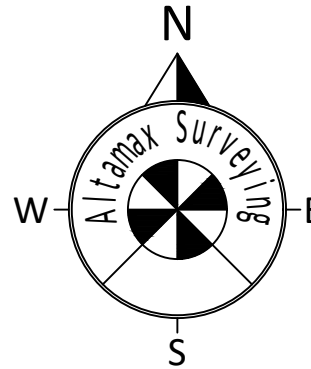
F.E.G. PROJECT NO.  
**20-145**  
SHEET NO.  
**C-2B**  
SHEET 4 OF 25

SHEET 2 OF 4



ALTA/NSPS LAND TITLE SURVEY

- TREE CHART  
1- 12' PALM  
2- 6' PALM  
3- 15' PALM  
4- 15' PALM  
5- 18' PALM  
6- 20' OAK  
7- 20' OAK  
8- 30' OAK  
9- 20' OAK  
10- 16' OAK CLUSTER  
11- 18' OAK  
12- 36' OAK  
13- 4" CYPRESS  
14- 18' PALM  
17- 10' PALM  
18- 6' PALM  
19- 6' PALM  
20- 10' OAK  
21- 36' OAK CLUSTER  
22- 18' OAK  
23- 10' OAK  
24- 18' OAK  
25- 6' PALM  
26- 30' MAPLE CLUSTER  
27- 18' PALM  
28- 10' PALM CLUSTER  
29- 6' PALM  
35- 7' PALM  
39- 6' PALM  
40- 6' PALM  
41- 6' PALM  
42- 6' PALM  
43- 6' PALM  
44- 6' PALM  
45- 6' PALM  
47- 62' OAK  
48- 40' OAK  
49- 8' PALM  
50- 10' PALM  
51- 8' PALM  
52- 52' OAK  
55- 30' PINE  
56- 16' OAK  
57- 17' OAK  
58- 8' UNIDENTIFIED CLUSTER  
59- 48' OAK  
60- 9' PALM  
61- 8' PALM  
64- 8' PALM  
67- 30' OAK  
68- 52' OAK  
70- 9' PALM  
71- 9' PALM  
72- 9' PALM  
73- 9' PALM  
74- 9' PALM  
75- 9' PALM  
76- 9' PALM  
77- 9' PALM  
78- 9' PALM  
79- 9' PALM  
80- 12' PALM  
81- 9' PALM  
82- 12' PALM  
83- 12' PALM  
84- 48' OAK  
85- 36' OAK  
86- 90' OAK  
87- 9' PALM  
89- 9' PALM  
90- 9' PALM  
95- 10' PALM  
96- 10' PALM  
97- 10' PALM  
98- 52' OAK  
99- 35' OAK  
100- 37' OAK  
102- 10' PALM  
104- 24' OAK  
105- 18' OAK  
106- 18' OAK  
107- 18' OAK  
108- 15' PALM  
109- 12' PALM  
110- 12' PALM  
111- 12' PALM  
112- 24' OAK  
113- 12' PALM  
114- 10' PALM  
115- 24' OAK  
116- 7' OAK  
117- 7' OAK  
118- 24' OAK  
119- 6' PALM  
120- 18' OAK  
121- 15' OAK  
122- 12' OAK  
123- 18' OAK  
124- 18' OAK  
125- 24' OAK  
126- 17' OAK  
127- 17' OAK  
128- 13' OAK  
129- 18' OAK  
130- 18' OAK  
131- 14' PALM  
132- 14' PALM  
133- 15' PALM  
134- 15' PALM  
135- 14' PALM  
136- 12' PALM  
137- 14' PALM  
138- 14' PALM  
139- 14' PALM  
140- 8' OAK  
141- 8' OAK  
142- 8' OAK  
143- 15' PALM  
144- 18' PALM  
145- 30' OAK  
146- 8' OAK  
147- 12' OAK  
148- 42' OAK  
149- 15' PALM  
150- 30' OAK  
151- 12' PALM  
152- 26' OAK  
153- 26' OAK  
154- 14' PALM  
155- 12' PALM  
156- 30' OAK  
157- 14' PALM  
158- 10' PALM



ADDRESS:  
600 Greenlawn Street  
New Smyrna Beach, FL

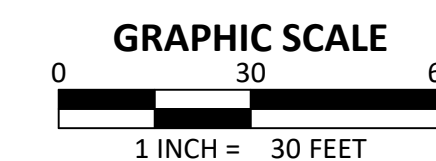
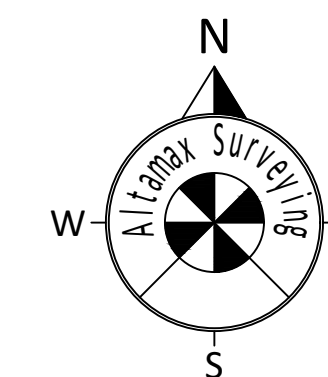
JOB NO. 903905  
CF NO. VLS-600 Greenlawn St  
FIELD DATE: 10/13/2020  
SCALE: 1" = 30'  
DRAWN BY: SAH

**Altamax Surveying**  
910 Belle Avenue, Suite 1100  
Casselberry, FL 32708  
Phone: 407-677-0200  
Licensed Business No. 7833  
www.altamaxsurveying.com

F.E.G. PROJECT NO.  
**20-145**  
SHEET NO.  
**C-2C**  
SHEET 5 OF 25

SHEET 3 OF 4

*ALTA/NSPS LAND TITLE SURVEY*



- 1- BREE CHART  
 2- 6" PALM  
 3- 10" PALM  
 4- 15" PALM  
 5- 20" PALM  
 6- 20" OAK  
 7- 20" OAK  
 8- 20" OAK  
 9- 20" OAK  
 10- 20" OAK  
 11- 18" OAK  
 12- 36" OAK  
 13- 36" OAK  
 14- 18" PALM  
 15- 10" PALM  
 16- 10" PALM  
 17- 10" PALM  
 18- 6" PALM  
 19- 6" PALM  
 20- 6" PALM  
 21- 30" OAK CLUSTER  
 22- 18" OAK  
 23- 18" OAK  
 24- 18" OAK  
 25- 6" PALM  
 26- 6" PALM  
 27- 18" PALM  
 28- 18" PALM  
 29- 6" PALM  
 30- 6" PALM  
 31- 6" PALM  
 32- 6" PALM  
 33- 6" PALM  
 34- 6" PALM  
 35- 6" PALM  
 36- 6" PALM  
 37- 6" PALM  
 38- 6" PALM  
 39- 6" PALM  
 40- 6" PALM  
 41- 6" PALM  
 42- 6" PALM  
 43- 6" PALM  
 44- 6" PALM  
 45- 6" PALM  
 46- 6" PALM  
 47- 6" OAK  
 48- 6" OAK  
 49- 6" OAK  
 50- 10" PALM  
 51- 10" PALM  
 52- 52" OAK  
 53- 52" OAK  
 54- 52" OAK  
 55- 52" OAK  
 56- 16" OAK  
 57- 17" OAK  
 58- 17" OAK  
 59- 17" OAK  
 60- 17" OAK  
 61- 17" OAK  
 62- 17" OAK  
 63- 17" OAK  
 64- 18" PALM  
 65- 18" PALM  
 66- 52" OAK  
 67- 52" OAK  
 68- 52" OAK  
 69- 52" OAK  
 70- 52" OAK  
 71- 52" OAK  
 72- 52" OAK  
 73- 52" OAK  
 74- 52" OAK  
 75- 52" OAK  
 76- 52" OAK  
 77- 52" OAK  
 78- 52" OAK  
 79- 52" OAK  
 80- 12" PALM  
 81- 52" OAK  
 82- 52" OAK  
 83- 12" PALM  
 84- 12" PALM  
 85- 36" OAK  
 86- 36" OAK  
 87- 36" OAK  
 88- 36" OAK  
 89- 36" OAK  
 90- 36" OAK  
 91- 36" OAK  
 92- 36" OAK  
 93- 36" OAK  
 94- 36" OAK  
 95- 36" OAK  
 96- 36" OAK  
 97- 36" OAK  
 98- 52" OAK  
 99- 35" OAK  
 100- 35" OAK  
 101- 10" PALM  
 102- 10" PALM  
 103- 10" PALM  
 104- 24" OAK  
 105- 24" OAK  
 106- 18" OAK  
 107- 18" OAK  
 108- 15" PALM  
 109- 15" PALM  
 110- 12" PALM  
 111- 12" PALM  
 112- 12" PALM  
 113- 12" PALM  
 114- 10" PALM  
 115- 12" PALM  
 116- 7" OAK  
 117- 7" OAK  
 118- 6" PALM  
 119- 6" PALM  
 120- 6" PALM  
 121- 15" OAK  
 122- 12" OAK  
 123- 12" OAK  
 124- 18" OAK  
 125- 24" OAK  
 126- 24" OAK  
 127- 17" OAK  
 128- 17" OAK  
 129- 18" OAK  
 130- 18" OAK  
 131- 18" OAK  
 132- 14" PALM  
 133- 15" PALM  
 134- 14" PALM  
 135- 14" PALM  
 136- 14" PALM  
 137- 14" PALM  
 138- 14" PALM  
 139- 14" PALM  
 140- 8" OAK  
 141- 8" OAK  
 142- 8" OAK  
 143- 15" PALM  
 144- 15" PALM  
 145- 15" PALM  
 146- 8" OAK  
 147- 8" OAK  
 148- 8" OAK  
 149- 8" OAK  
 150- 15" PALM  
 151- 15" PALM  
 152- 15" PALM  
 153- 26" OAK  
 154- 14" PALM  
 155- 14" PALM  
 156- 30" OAK  
 157- 14" PALM  
 158- 14" PALM  
 159- 14" PALM  
 160- 14" PALM  
 161- 14" PALM  
 162- 14" PALM  
 163- 14" PALM  
 164- 14" PALM  
 165- 14" PALM  
 166- 14" PALM  
 167- 14" PALM  
 168- 14" PALM  
 169- 14" PALM  
 170- 14" PALM  
 171- 14" PALM  
 172- 14" PALM  
 173- 14" PALM  
 174- 14" PALM  
 175- 14" PALM  
 176- 14" PALM  
 177- 14" PALM  
 178- 14" PALM  
 179- 14" PALM  
 180- 14" PALM  
 181- 14" PALM  
 182- 14" PALM  
 183- 14" PALM  
 184- 14" PALM  
 185- 14" PALM  
 186- 14" PALM  
 187- 14" PALM  
 188- 14" PALM  
 189- 14" PALM  
 190- 14" PALM  
 191- 14" PALM  
 192- 14" PALM  
 193- 14" PALM  
 194- 14" PALM  
 195- 14" PALM  
 196- 14" PALM  
 197- 14" PALM  
 198- 14" PALM  
 199- 14" PALM  
 200- 14" PALM  
 201- 14" PALM  
 202- 14" PALM  
 203- 14" PALM  
 204- 14" PALM  
 205- 14" PALM  
 206- 14" PALM  
 207- 14" PALM  
 208- 14" PALM  
 209- 14" PALM  
 210- 14" PALM  
 211- 14" PALM  
 212- 14" PALM  
 213- 14" PALM  
 214- 14" PALM  
 215- 14" PALM  
 216- 14" PALM  
 217- 14" PALM  
 218- 14" PALM  
 219- 14" PALM  
 220- 14" PALM  
 221- 14" PALM  
 222- 14" PALM  
 223- 14" PALM  
 224- 14" PALM  
 225- 14" PALM  
 226- 14" PALM  
 227- 14" PALM  
 228- 14" PALM  
 229- 14" PALM  
 230- 14" PALM  
 231- 14" PALM  
 232- 14" PALM  
 233- 14" PALM  
 234- 14" PALM  
 235- 14" PALM  
 236- 14" PALM  
 237- 14" PALM  
 238- 14" PALM  
 239- 14" PALM  
 240- 14" PALM  
 241- 14" PALM  
 242- 14" PALM  
 243- 14" PALM  
 244- 14" PALM  
 245- 14" PALM  
 246- 14" PALM  
 247- 14" PALM  
 248- 14" PALM  
 249- 14" PALM  
 250- 14" PALM  
 251- 14" PALM  
 252- 14" PALM  
 253- 14" PALM  
 254- 14" PALM  
 255- 14" PALM  
 256- 14" PALM  
 257- 14" PALM  
 258- 14" PALM  
 259- 14" PALM  
 260- 14" PALM  
 261- 14" PALM  
 262- 14" PALM  
 263- 14" PALM  
 264- 14" PALM  
 265- 14" PALM  
 266- 14" PALM  
 267- 14" PALM  
 268- 14" PALM  
 269- 14" PALM  
 270- 14" PALM  
 271- 14" PALM  
 272- 14" PALM  
 273- 14" PALM  
 274- 14" PALM  
 275- 14" PALM  
 276- 14" PALM  
 277- 14" PALM  
 278- 14" PALM  
 279- 14" PALM  
 280- 14" PALM  
 281- 14" PALM  
 282- 14" PALM  
 283- 14"



ADDRESS:

600 Greenlawn Street  
New Smyrna Beach, FL

JOB NO. 903905

CF NO. VLS-600 Greenlawn St

FIELD DATE: 10/13/2020

SCALE: 1" = 30'

DRAWN BY: SAH

**Altamax Surveying**

910 Belle Avenue, Suite 1100

Casselberry, FL 32708

Phone: 407-677-0200

Licensed Business No. 7833  
www.altamaxsurveying.com

F.E.G. PROJECT NO.  
**20-145**

SHEET NO. C-2D

SHEET 6 OF 25

SHEET 4 OF 4



GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED & ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN.
3. THE SPECIFICATIONS, NOTES & PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN & CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH & INSTALL THE WORK IN ALL DETAILS & READY FOR OPERATION.
4. ALL EQUIPMENTS SHALL BE HANDLED, STORED, INSTALLED, TESTED & OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS AS APPROVED BY THE ENGINEER.
6. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, & LOCAL CODES, ORDINANCES & REGULATIONS.
7. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING.
8. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN-UP OPERATION FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL & EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESENT THE PROJECT SITE CLEAN & IN GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.
9. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, & SPECIFICATIONS OF CITY OF NEW SMYRNA BEACH FOR SITE IMPROVEMENT IN THE ABSENCE OF A PARTICULAR REQUIREMENT.
10. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT "WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED "EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING & CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS & A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, & LEGAL HOLIDAYS).
11. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS, & CABLE TV COMPANIES.
12. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER & OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER & OWNER.
13. THE CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE RECORD DRAWINGS PREPARED BY A LICENSED PROFESSIONAL SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL & VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE RECORD DRAWINGS WILL NOT BE RETURNED. THE RECORD DRAWING OR A REPRODUCIBLE COPY PREPARED BY ENGINEER SHALL BE CERTIFIED BY THE CONTRACTOR AS CORRECT. ALL INFORMATION WHICH IS UNCHANGED & CURRENT SHALL BE NOTED BY CHECKING OFF OR CIRCILING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH & NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING, DRAINAGE, WATER, & SEWER NOTES.
14. ALL PRIVATE & PUBLIC PROPERTIES AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION & NO EXTRA COMPENSATION WILL BE ALLOWED.
15. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IN PREPARING THE SITE FOR CONSTRUCTION; THIS INCLUDES REMOVAL OF ANY EXISTING ORGANIC SOILS, DELETERIOUS MATERIAL, VEGETATION, AND/OR DEBRIS FROM WITHIN THE LIMITS OF CONSTRUCTION AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER; PROOF ROLLING OF THE NATURAL SOILS WHERE REQUIRED; AND OTHER GENERAL SITE PREPARATION REQUIREMENTS. SPECIFIC COMPACTION REQUIREMENTS SHOULD BE CONSISTENT WITH THE APPLICABLE DESIGN DOCUMENTS. IF THERE IS A CONFLICT BETWEEN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THE DESIGN DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

GEOMETRY NOTES:

1. THESE PLANS ARE BASED ON A SURVEY PREPARED FOR THE OWNER BY ALTAMAX SURVEYING AND DATED DECEMBER 3, 2020.
2. REFER TO SHEET C-2A, C-2B, C-2C AND C-2D FOR REFERENCED BENCHMARK.
3. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE & CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL & VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY APPARENT DISCREPANCIES ARE FOUND.
4. ALL DIMENSIONS ARE TO THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE BUILDING GEOMETRY SHOWN WITH THAT IN THE FINAL ARCHITECTURAL DRAWINGS, PRIOR TO STAKE-OUT, & SHALL NOTIFY OWNER & ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

MARKING, STRIPING, & SIGNAGE NOTES:

1. ALL MARKINGS MUST COMPLY WITH THE F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, & THE CITY OF NEW SMYRNA BEACH LAND DEVELOPMENT CODE. PARKING SPACES MAY BE F.D.O.T. RATED PAINT. ALL OTHER MARKINGS MUST BE THERMOPLASTIC.
2. HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED & STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & OTHER APPLICABLE STANDARDS. REFER TO F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS INDEX 17355 FOR HANDICAP SYMBOL.
3. HANDICAP SIGN SHALL BE F.D.O.T. SPECIFICATION FTP 25.

PAVING, GRADING, & DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF NEW SMYRNA BEACH & OTHER CITY GENERAL & SPECIAL SPECIFICATIONS, & THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, UNLESS STATED OTHERWISE IN THE SPECIFICATIONS OR ON THE PLANS.
2. SUBSURFACE INFORMATION PROVIDED WITH THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.
3. THE LOCATIONS OF EXISTING UTILITIES & STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE & ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS & FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT & NO EXTRA COMPENSATION WILL BE ALLOWED.
4. ALL FILL MATERIAL IN GENERAL IMPROVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180. SPECIFIC SITE PREPARATION METHODS, TYPE OF FILL TO BE USED FOR PARKING & BUILDING AREAS, & COMPACTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS (SEE GEOTECHNICAL REPORT PREPARED BY XXXXXXXXXXXXXXXXXXXX; PROJECT NO. XXXXXX) REFER TO PAVEMENT SECTION DETAILS FOR MATERIAL & COMPACTION REQUIREMENTS OF PAVEMENT SUBGRADE.
5. ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, CABLE TV, & TELEPHONE SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
6. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY PROBLEMS REQUIRING DEVIATION FROM THESE PLANS & SPECIFICATIONS.
7. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT. UPON THE CONTRACTOR'S RECEIPT OF APPROVED SHOP DRAWINGS FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE WORK.
8. ALL DISTURBED AREAS MUST BE SODDED UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING MUST BE DONE IN ACCORDANCE WITH SECTION 570 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
9. PROVIDE HANDICAP ACCESS WHERE SIDEWALKS MEET CURBS.

EROSION CONTROL NOTES:

1. ALL EROSION & SEDIMENT CONTROL WORK SHALL CONFORM WITH CITY OF NEW SMYRNA BEACH AND ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS, SUBJECT TO AUTHORIZED & APPROVED VARIANCES, WAIVERS &/OR CONDITIONAL CHANGES.
2. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
3. CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE IN CONTROLLING EROSION & SEDIMENTATION DURING CONSTRUCTION.
4. ALL CLEARED AREAS FOR IMPROVEMENT &/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
5. PRIOR TO LAND CLEARING THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIER TO MEET THE REQUIREMENTS OF THE CITY OF NEW SMYRNA BEACH.
6. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION & STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

WATER & SEWER UTILITY NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITIES COMMISSION CITY OF NEW SMYRNA BEACH FOR CONSTRUCTION OF THE WATER AND SEWER SYSTEMS. ALL MATERIAL AND CRAFTSMANSHIP SHALL CONFORM TO THEIR SPECIFICATIONS AND REQUIREMENTS, AS APPLICABLE AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.
2. CONTRACTOR SHALL COORDINATE ALL WATER AND SEWER SYSTEM TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE AND PROVIDE FIVE (5) WORKING DAYS NOTICE OF WATER AND SEWER TESTS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S EXPENSE.
3. ENGINEER RESERVES THE RIGHT TO WITHHOLD APPROVAL FOR ANY PORTION OF THE WATER OR SEWER PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
4. SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
5. CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE-INS.
6. CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS MARKED UP WITH HORIZONTAL AND VERTICAL AS-BUILT INFORMATION ON LOCATION OF WATER MAINS, FITTINGS, AND WATER SERVICES LOCATED FROM CENTERLINE OF NEAREST FIRE HYDRANT OR NEAREST MANHOLE.
7. SITE UTILITY WORK SHALL TERMINATE 5 FEET FROM BUILDINGS UNLESS OTHERWISE STATED.
8. CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.

F.D.E.P. CONSTRUCTION NOTES:

- UTILITY SEPARATION – VERTICAL CLEARANCE:**
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY –OR VACUUM– TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12" BELOW THE OTHER PIPELINE AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
2. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- UTILITY SEPARATION HORIZONTAL SEPARATION:**
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART II CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST (6") SIX SIX INCHES ABOVE THE TOP OF THE SEWER). A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
2. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE UTILITIES COMMISSION CITY OF NEW SMYRNA BEACH & IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR PVC PIPE.
3. THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE F.D.E.P. WATER PERMIT, & RECEIVE APPROVAL THEREOF FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, & F.D.E.P., PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE F.D.E.P. WATER & SEWER PERMITS FROM THE PERMITS FROM THE OWNER & MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS", SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS".

- CONSTRUCTION NOTES:**
1. THE PERMITTEE SHALL BE SEPARATELY RESPONSIBLE FOR APPROPRIATE CONSTRUCTION, DISINFECTION & TESTING BEYOND THE METER TO ASSURE POTABILITY AT THE POINT OF USE.
2. POTABLE WATER PIPES WILL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.
3. POTABLE PIPES WILL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH SPECIFICATION NUMBERS C600 & C605/M23 FOR DUCTILE IRON & PVC PIPES, RESPECTIVELY.
- A. POTABLE WATER PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA SPECIFICATIONS:
- B. DUCTILE IRON PIPE (3" TO 64") – AWWA C150/AWWA C151; LINING PER AWWA C104, COATING PER AWWA C116, ENCASEMENT PER AWWA C105, FLANGED PIPE PER AWWA C115, GASKET JOINTS PER AWWA C111 AND FITTINGS PER AWWA C110 OR AWWA C153.
- C. PVC (WITH NATIONAL SANITATION FOUNDATION SEAL)
1. AWWA C900/ASTM 1784 (4" TO 12") WITH DR25 MINIMUM;
2. AWWA C905 (14" TO 48")
3. PRESSURE RATED PIPE (SDR SERIES) SHALL BE ASTM D2241, SCHEDULE 40, 80, & 120 PVC PIPES PER ASTM D1785. THE COMPOUNDS USED FOR EITHER OF THESE TYPES SHALL BE PER ASTM D1784.
- D. POLYETHYLENE PIPE (1/2" – 3") – AWWA C901 WITH VALVES & FITTINGS (AWWA C800);
- E. POLYETHYLENE PIPE (4" – 63") – AWWA C906.
- F. FIRE HYDRANTS & VALVES PER AWWA SERIES C500 THROUGH C560.
- G. METERS PER AWWA SERIES C700 THROUGH C710.
- E. NON-AWWA PVC PIPES (ALLOWED ONLY FOR SIZES LESS THAN 4 INCHES) MUST HAVE A MINIMUM PRESSURE CLASS OF 200 PSI AND MUST BEAR THE UNIFORM TRAFFIC CONTROL MARK ON EACH END.

CONNECTION TO EXISTING WATER MAINS:

1. IF CONNECTION OF THE PROPOSED ACTIVITY TO THE WATER MAIN WILL RESULT IN DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW 20 POUNDS PER SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR:
- A. PRECAUTIONARY BOIL WATER NOTICES MUST BE ISSUED IN CASES OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH DEEMED AN IMMINENT PUBLIC HEALTH THREAT BY THE D.E.P., CENTRAL DISTRICT OR WILL AFFECT BACTERIOLOGICAL QUALITY OF THE DRINKING WATER UNLESS THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGMENT, THAT THE INTEGRITY OF THE WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.
- B. IN CASES OF BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.

FILLING OF WATERMAINS:

1. FILLING OF PROPOSED WATER MAINS FROM EXISTING WATER MAINS WILL BE DONE IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.

MATERIAL SPECIFICATIONS:

PAVING, GRADING, & DRAINAGE:

1. PAVING MATERIALS SHALL CONFORM WITH F.D.O.T. STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
2. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
3. ALL STORM STRUCTURES SHALL CONFORM WITH F.D.O.T. STANDARD INDEX DRAWINGS & SPECIFICATIONS EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS BICYCLE TRAFFIC IS ANTICIPATED.
4. ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE SPECIFIED & SHALL HAVE 4 FEET MINIMUM DIAMETER.

WATER MATERIAL:

- ALL MATERIALS USED IN POTABLE WATER FACILITIES, OR THAT COME INTO CONTACT WITH POTABLE WATER, SHALL:
- COMPLY WITH THE LATEST REQUIREMENTS OF THE FEDERAL SAFE DRINKING WATER ACT;
  - COMPLY WITH NSF/ANSI STANDARD 61: DRINKING WATER SYSTEM COMPONENTS – HEALTH EFFECTS;
  - BE ADEQUATELY IDENTIFIED BY THE COLOR BLUE;
  - BE LEAD-FREE BRASS;
  - BE MARKED WITH THE MANUFACTURER, BATCH NUMBER AND STRENGTH DESIGNATION;
  - CONFORM TO DUCTILE IRON PIPE SIZE (D.I.P.S.) STANDARDS AND
  - HAVE STAINLESS STEEL NUTS AND BOLTS PER ASTM F593, WHERE APPLICABLE.

3.1 PIPE

A. DUCTILE IRON

DUCTILE IRON PIPE, INCLUDING FITTINGS AND RESTRAINTS, SHALL CONFORM TO ASTM A536 AND AWWA C104, C110, C111, C115, C116, C153 AND C600. DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350.

B. POLYVINYL CHLORIDE (PVC)

PVC PIPE SHALL CONFORM TO ASTM D1784 AND AWWA C900, C905 AND C605 AND SHALL HAVE MINIMUM DIMENSION RATIO (DR) 18. PVC PIPE MUST BE CAPABLE OF CONNECTING TO STANDARD DUCTILE IRON VALVES AND FITTINGS USING MECHANICAL JOINTS.

C. HIGH DENSITY POLYETHYLENE (HDPE)

HDPE PIPE SHALL HAVE MINIMUM STANDARD DIMENSION RATIO (SDR) 11. HDPE SHALL MATCH THE INSIDE PIPE DIAMETER TO WHICH IT IS CONNECTED.

D. FUSIBLE PVC

FUSIBLE PVC MAY BE USED WITH UCNSB ENGINEERING DEPARTMENT APPROVAL AS SHOWN IN DRAWINGS APPROVED BY THE ENGINEERING MANAGER.

E. STEEL

BLACK OR GALVANIZED STEEL (GS) PIPE IS PROHIBITED.

3.2 FIRE HYDRANTS

FIRE HYDRANTS SHALL CONFORM TO AWWA C502 AND BE MANUFACTURED BY AMERICAN FLOW CONTROL OR MUELLER COMPANY. FIRE HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE DESIGNED TO BREAK UPON TRAFFIC IMPACT TO PREVENT FURTHER DAMAGE TO THE HYDRANT AND PIPING AND PAINTED OSHA YELLOW.

FIRE HYDRANTS SHALL HAVE:

- 6" (MINIMUM) DUCTILE IRON PIPING, GATE VALVE AND MECHANICAL JOINT BASE;
- 5 3/4" BARREL, ONE 4 1/2" PUMPER NOZZLE AND TWO 2 1/2" HOSE NOZZLES (WITH CAPS AND CHAINS);
- OPERATING NUT OPENING IN THE COUNTERCLOCKWISE DIRECTION WITH AN ARROW CAST ON THE OPEN DIRECTION;
- CLOSED WEEP HOLE AND
- STAINLESS STEEL BOLTS ON TOP AND BOTTOM FLANGE (ASTM F593).

3.3 VALVES

THE VALVE TYPE, SIZE, RATING, FLOW DIRECTION ARROW AND MANUFACTURER SHALL BE CLEARLY MARKED ON EACH UNIT, AS APPLICABLE. VALVES SHALL OPEN IN THE COUNTERCLOCKWISE DIRECTION WITH AN ARROW CAST ON THE OPERATING NUT IN THE OPEN DIRECTION. HAND WHEELS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL. VALVE BOXES SHALL BE CAST IRON WITH A ROUND COVER LABELED WATER.

A. GATE VALVES

GATE VALVES SHALL BE USED FOR POTABLE WATER MAINS 24" OR LESS AND CONFORM TO AWWA C509 AND C515. GATE VALVES SHALL HAVE A DUCTILE IRON BODY, NON-RISING STEM TYPE, RESILIENT SEAT AND SHALL BE EQUIPPED WITH 2" SQUARE CAST IRON WRENCH NUTS.

B. BUTTERFLY VALVES

BUTTERFLY VALVES SHALL BE USED FOR POTABLE WATER MAINS 26" OR LARGER AND CONFORM TO AWWA C504. VALVES SHALL BE CAST OR DUCTILE IRON BODY, ALLOY CAST IRON OR DUCTILE IRON DISC, BODY MOUNTED SEAT, ONE-PIECE STAINLESS STEEL SHAFT (SHORT OR LONG BODY TYPE) AND THE VALVE CLASS, SHAFT SIZE AND OTHER SPECIAL REQUIREMENTS SELECTED IN ACCORDANCE WITH THE SPECIFIC DESIGN. VALVE OPERATION SHALL BE BY APPROVED GEAR ACTUATORS, WITH SEALED ENCLOSURES FOR BURIED OR SUBMERGED SERVICE. POSITION INDICATORS SHALL BE FURNISHED, AS REQUIRED. UNITS SHALL BE EQUIPPED WITH ACTUATING NUTS, CAST IRON HAND-WHEELS OR CHAIN OPERATORS, WITH GALVANIZED STEEL CHAINS, AS APPROPRIATE FOR THE INSTALLATION. APPURTENANCES SHALL BE FURNISHED BY THE VALVE MANUFACTURER.

C. AIR RELEASE VALVES

AIR RELEASE VALVES SHALL BE A.R.I. FLOW CONTROL ACCESSORIES D-040 2" COMBINATION AIR VALVE, OR APPROVED EQUAL.

D. TAPPING VALVES AND SLEEVES

TAPPING SLEEVES SHALL BE FULL LENGTH, STAINLESS STEEL, MECHANICAL TYPE, WITH TEST PORT, AND SUITABLE FOR EITHER WET OR DRY INSTALLATION. TAPPING VALVES SHALL BE RESILIENT SEAT GATE VALVES.

E. BLOW OFF VALVES

BLOW OFF VALVES SHALL BE A 2" LOCK TYPE VALVE (CURB STOP) AND SHALL BE INSTALLED IN AN 11" X 18" FLARED WALL METER BOX WITH TIER 22 RATINGS.

3.4 SERVICES

POTABLE WATER SERVICES 1" OR 2" SHALL BE POLYETHYLENE (PE) TUBING, PE4710 PRESSURE PIPE AND CONFORM TO AWWA C901, ASTM D2737 & ASTM D2239. SERVICE SADDLES SHALL BE DOUBLE BANDED WITH EPOXY COATED DUCTILE IRON BODY WITH STAINLESS STEEL STRAPS AND BOLTS.

CORPORATION STOPS SHALL CONFORM TO AWWA C800 AND BE BALL VALVE TYPE WITH A COMPRESSION OUTLET AND A CC THREADED INLET.

CURB STOPS SHALL CONFORM TO AWWA C800, BE BALL VALVE TYPE AND HAVE PADLOCK WING AND COMPRESSION CONNECTIONS.

POTABLE WATER SERVICES 3" AND LARGER AND FIRE SERVICES SHALL CONFORM TO SECTIONS 3.01 AND 3.03.

3.5 VAULTS

VAULTS ARE SQUARE, CONCRETE STRUCTURES USED FOR AIR RELEASE VALVES IN POTABLE WATER APPLICATIONS. VAULTS SHALL BE DESIGNED PER ASTM C913. VAULTS SHALL BE REINFORCED, PRECAST AND MONOLITHICALLY POURED TO INCLUDE ALL OPENINGS, MADE FROM TYPE II SULFATE- RESISTANT PORTLAND CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND CAPABLE OF WITHSTANDING AASHTO H-20 VERTICAL, DYNAMIC WHEEL LOAD RATING.

VAULTS SHALL HAVE, AT A MINIMUM, A 5' X 5' INSIDE AREA AND 6" BASE THICKNESS. THE MAXIMUM HEIGHT SHALL BE 5.5' FROM TOP OF BASE SLAB TO FINISHED GRADE.

JOINTS SHALL BE SEALED WITH FLEXIBLE PLASTIC JOINT SEALER FOR A WATERTIGHT SEAL MANUFACTURED BY RAM-NEK OR RUB'R NEK, OR APPROVED EQUAL, PER ASTM C990.

VAULTS SHALL HAVE US FOUNDRY 667 RING AND CR (OUTER) AND CE (INNER), VENTED COVER, WITH UCNSB SPECIFIC CASTING PER ASTM A48.

3.6 CASINGS

A. DUCTILE IRON

SEE SECTION 3.01.

B. PVC

PVC CASINGS FOR 1" OR 2" POTABLE WATER SERVICES SHALL BE SCHEDULE 40. PVC CASINGS FOR WATER MAINS SHALL BE DR 25, MINIMUM.

C. HDPE

HDPE CASINGS SHALL BE DR 13.5, MINIMUM.

D. FUSIBLE PVC

FUSIBLE PVC CASINGS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL.

E. STEEL

STEEL SHALL CONFORM TO ASTM A139 GRADE B AND HAVE A BLACK PROTECTIVE BITUMINOUS COATING, MINIMUM OF 5 MILS THICK, INSIDE AND OUT.

LEGEND

SITE

- POLE SIGN
- SMALL PYLON SIGN
- LARGE PYLON SIGN
- RIGHT TURN DIRECTIONAL ARROW
- STRAIGHT DIRECTIONAL ARROW
- LEFT TURN DIRECTIONAL ARROW
- STRAIGHT AND LEFT TURN DIRECTIONAL ARROW
- HANDICAP PARKING SYMBOL
- F.D.O.T. TYPE "D" CURB
- F.D.O.T. TYPE "F" CURB AND GUTTER
- GATE VALVE BOX, WV= WATER, FV= FIRE, IV=IRRIGATION, & SSV=SANITARY SEWER
- CHAINLINK FENCE
- DECORATIVE WOOD OR ALUMINUM FENCE
- BARB WIRE FENCE
- HANDRAIL
- SCREEN/RETAINING WALL, AS NOTED.
- BIKE RACK
- PARKING COUNT SYMBOL PER ROW
- ROAD CENTERLINE SYMBOL

GRADING & DRAINAGE

- F.D.O.T. TYPE "C" DRAINAGE INLET
- F.D.O.T. TYPE "D" DRAINAGE INLET
- F.D.O.T. TYPE "E" DRAINAGE INLET
- F.D.O.T. TYPE "1" DRAINAGE INLET
- F.D.O.T. TYPE "2" DRAINAGE INLET
- F.D.O.T. TYPE "3" DRAINAGE INLET
- F.D.O.T. TYPE "4" DRAINAGE INLET
- F.D.O.T. TYPE "5" DRAINAGE INLET
- F.D.O.T. TYPE "6" DRAINAGE INLET
- STORM DRAINAGE MANHOLE
- MITERED END SECTION
- STORM DRAINAGE PIPE
- DRAINAGE FLOW DIRECTIONAL ARROW
- DRAINAGE STRUCTURE BUBBLE
- GRADE ELEVATION
- CONTOUR ELEVATION
- EROSION CONTROL SILT FENCE

UTILITY

- DCDA – DOUBLE CHECK DETECTOR ASSEMBLY
- DCVA – DOUBLE CHECK VALVE ASSEMBLY
- RPZ – REDUCED PRESSURE ZONE DEVICE
- DOMESTIC METER
- IRRIGATION METER
- GATE VALVE
- BLOW-OFF GATE VALVE
- REDUCER
- WET WELL
- 11.25' PIPE BEND
- 22.5' PIPE BEND
- 30" PIPE BEND
- 45" PIPE BEND
- 60" PIPE BEND
- 90° PIPE BEND
- TEE
- CROSS
- FIRE HYDRANT ASSEMBLY W/ UNOBSTRUCTED AREA CLEARANCES AS REQUIRED BY FIRE MARSHALL
- FIRE DEPARTMENT CONNECTION
- CLEAN OUT
- LIFT STATION
- GREASE TRAP
- SITE LIGHTING
- DECORATIVE SITE LIGHTING
- UTILITY POLE

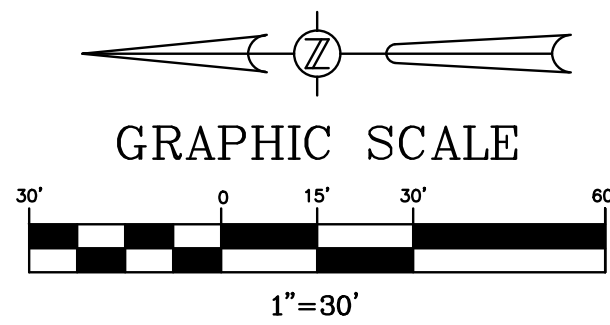
THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBALL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



<div>SEWER MATERIAL:</div> <div>ALL MATERIALS USED IN WASTEWATER FACILITIES, OR THAT COME INTO CONTACT WITH WASTEWATER, SHALL:<ul style="list-style-type: none"><li>• BE ADEQUATELY IDENTIFIED BY THE COLOR GREEN;</li><li>• BE MARKED WITH THE MANUFACTURER, BATCH NUMBER AND STRENGTH DESIGNATION;</li><li>• CONFORM TO DUCTILE IRON PIPE SIZE (D.I.P.S.) STANDARDS AND</li><li>• HAVE TYPE 316 STAINLESS STEEL MATERIALS, CONFORMING TO ASTM F593, WHERE APPLICABLE.</li></ul></div> <div>3.1 PIPE</div> <div>A. DUCTILE IRON</div> <div>DUCTILE IRON PIPE, INCLUDING FITTINGS AND RESTRAINTS, SHALL CONFORM TO ASTM A536 AND AWWA C104, C110, C111, C115, C116, C153 AND C600. DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350.</div> <div>B. POLYVINYL CHLORIDE (PVC)</div> <div>PVC PIPE SHALL CONFORM TO ASTM D1784.</div> <div>1) GRAVITY SANITARY SEWER MAINS</div> <div>PVC GRAVITY SANITARY SEWER PIPE AND FITTINGS SHALL CONFORM TO ASTM D3034 AND F1336 AND SHALL HAVE MINIMUM STANDARD DIMENSION RATIO (SDR) 35.</div> <div>2) FORCE MAINS</div> <div>PVC FORCE MAIN PIPE SHALL CONFORM TO AWWA C900, C905 AND C605 AND HAVE MINIMUM DIMENSION RATIO (DR) 25. PVC FORCE MAIN PIPE SHALL BE CAPABLE OF CONNECTING TO STANDARD DUCTILE IRON VALVES AND FITTINGS USING MECHANICAL JOINTS.</div> <div>C. HIGH DENSITY POLYETHYLENE (HDPE)</div> <div>HDPE PIPE SHALL HAVE MINIMUM STANDARD DIMENSION RATIO (SDR) 11. HDPE SHALL BE SIZED TO MATCH THE INSIDE PIPE DIAMETER TO WHICH IT IS CONNECTED.</div> <div>D. FUSIBLE PVC</div> <div>FUSIBLE PVC MAY BE USED WITH UCNSB ENGINEERING DEPARTMENT APPROVAL AS SHOWN IN DRAWINGS APPROVED BY THE ENGINEERING MANAGER.</div> <div>E. STEEL</div> <div>BLACK OR GALVANIZED STEEL (GS) PIPE IS PROHIBITED.</div> <div>3.2 VALVES</div> <div>THE VALVE TYPE, SIZE, RATING, FLOW DIRECTION ARROW AND MANUFACTURER SHALL BE CLEARLY MARKED ON EACH UNIT, AS APPLICABLE. VALVES SHALL OPEN IN THE COUNTERCLOCKWISE DIRECTION WITH AN ARROW CAST ON THE OPERATING NUT IN THE OPEN DIRECTION. HAND WHEELS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL. VALVE BOXES SHALL BE CAST IRON AND THE COVER LABELED SEWER.</div> <div>A. PLUG VALVES</div> <div>PLUG VALVES SHALL CONFORM TO AWWA C517 AND BE DEZURIK ECCENTRIC PLUG VALVE, OR APPROVED EQUAL.</div> <div>B. CHECK VALVES</div> <div>CHECK VALVES SHALL CONFORM TO AWWA C508 AND BE AMERICAN FLOW CONTROL SERIES 2100, FLOMATIC 745 OR APPROVED EQUAL.</div> <div>C. AIR RELEASE VALVES</div> <div>AIR RELEASE VALVES SHALL BE A.R.I. FLOW CONTROL ACCESSORIES D-025 2" COMBINATION AIR VALVE FOR WASTEWATER (SHORT VERSION), OR APPROVED EQUAL.</div> <div>D. TAPPING VALVES AND SLEEVES</div> <div>TAPPING SLEEVES SHALL BE FULL LENGTH, STAINLESS STEEL, MECHANICAL TYPE, WITH TEST PORT, AND SUITABLE FOR EITHER WET OR DRY INSTALLATION. TAPPING VALVES SHALL BE RESILIENT SEAT GATE VALVES.</div> <div>3.3 SANITARY SEWER LATERALS</div> <div>LATERAL PIPE SHALL BE PVC SDR 35. SEE SECTION 3.01.</div> <div>PVC FITTINGS AND CLEAN OUTS SHALL BE MULTI FITTINGS, SPEARS MANUFACTURING, GPK PRODUCTS OR APPROVED EQUAL.</div> <div>CLEAN OUTS IN PAVED AREAS SHALL BE CAST IRON AND BE STAR PIPE PRODUCT 7610 HANDHOLE RING &amp; COVER "S" (MB-0036), OR APPROVED EQUAL.</div> <div>3.4 CONCRETE STRUCTURES</div> <div>SEE SECTION 2.03.</div> <div>CONCRETE STRUCTURES, E.G., MANHOLES AND VAULTS, SHALL BE DESIGNED PER ASTM C913 AND C478. CONCRETE STRUCTURES SHALL BE REINFORCED, PRECAST AND MONOLITHICALLY POURED TO INCLUDE ALL OPENINGS, MADE FROM TYPE II SULFATE-RESISTANT PORTLAND CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND CAPABLE OF WITHSTANDING AASHTO H-20 VERTICAL, DYNAMIC WHEEL LOAD RATING. RINGS AND COVERS SHALL CONFORM TO ASTM A48. JOINTS SHALL BE SEALED WITH FLEXIBLE PLASTIC JOINT SEALER FOR A WATERTIGHT SEAL MANUFACTURED BY RAM-NEK OR RUB'R NEK, OR APPROVED EQUAL, PER ASTM C990.</div> <div>A. MANHOLES</div> <div>MANHOLES SHALL HAVE:<ul style="list-style-type: none"><li>• ROUND, CIRCULAR SHAPE;</li><li>• 48" INSIDE DIAMETER (MIN.);</li><li>• 8" BASE THICKNESS (MIN.);</li><li>• 2' BASE SECTION HEIGHT (MIN.);</li><li>• 2' TO 3' ECCENTRIC CONE SECTION HEIGHT;</li><li>• 18" CHIMNEY HEIGHT (MAX.);</li><li>• 13' MAXIMUM INVERT DEPTH AND</li><li>• US FOUNDRY MODEL 170 RING AND CE COVER WITH UCNSB SPECIFIC CASTING.</li></ul></div> <div>1) SHALLOW MANHOLES</div> <div>A SHALLOW MANHOLE IS USED FOR DEPTHS LESS THAN OR EQUAL TO 5.5' TO THE LOWEST INVERT ELEVATION AND SHALL HAVE US FOUNDRY 667 RING AND CR (OUTER) AND CE (INNER) COVER WITH UCNSB SPECIFIC CASTING.</div> <div>2) DROP MANHOLES</div> <div>A DROP MANHOLE IS USED WHEN THE VERTICAL DISTANCE BETWEEN INVERTS EXCEEDS 2'. DROP CONNECTIONS SHALL BE INSIDE. OUTSIDE DROP CONNECTIONS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL.</div> <div>3) DOGHOUSE MANHOLES</div> <div>A DOGHOUSE MANHOLE IS USED TO ACCOMMODATE RETROFIT CONSTRUCTION ON TOP OF AN EXISTING PIPE AND WILL REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL.</div>					<div>SEWER MATERIAL (CONTINUATION):</div> <div>4) CONFLICT MANHOLES</div> <div>A CONFLICT MANHOLE IS USED WHEN NO OTHER REASONABLE ALTERNATIVES EXIST TO ELIMINATE A CONFLICT BETWEEN TWO DIFFERENT UTILITIES AND WILL REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL. THE CARRIER PIPE WILL REQUIRE A CASING.</div> <div>B. VAULTS</div> <div>VAULTS SHALL BE SQUARE WITH A MINIMUM 5' X 5' INSIDE AREA AND 6" BASE THICKNESS. THE MAXIMUM HEIGHT SHALL BE 5.5' FROM TOP OF BASE SLAB TO FINISHED GRADE. THE RING AND COVER SHALL BE US FOUNDRY 667 RING AND CR (OUTER) AND CE (INNER) COVER, WITH UCNSB SPECIFIC CASTING.</div> <div>3.5 CASINGS</div> <div>A. DUCTILE IRON</div> <div>SEE SECTION 3.01.</div> <div>B. PVC</div> <div>PVC CASINGS SHALL BE DR 25, MINIMUM.</div> <div>C. HDPE</div> <div>HDPE CASINGS SHALL BE DR 13.5, MINIMUM.</div> <div>D. FUSIBLE PVC</div> <div>FUSIBLE PVC CASINGS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL.</div> <div>E. STEEL</div> <div>STEEL SHALL CONFORM TO ASTM A139 GRADE B AND HAVE A BLACK PROTECTIVE BITUMINOUS COATING, MINIMUM OF 5 MILS THICK, INSIDE AND OUT.</div>	<div>RECLAIMED WATER MATERIAL (CONTINUATION):</div> <div>3.3 RECLAIMED WATER SERVICES</div> <div>SERVICES 1" OR 2" SHALL BE POLYETHYLENE (PE) TUBING, PE4710 PRESSURE PIPE AND CONFORM TO AWWA C901, ASTM D2737 &amp; ASTM D2239. SERVICE SADDLES SHALL BE DOUBLE BANDED WITH EPOXY COATED DUCTILE IRON BODY WITH STAINLESS STEEL STRAPS AND BOLTS.</div> <div>CORPORATION STOPS SHALL CONFORM TO AWWA C800 AND BE BALL VALVE TYPE WITH A COMPRESSION OUTLET AND A CC THREADED INLET.</div> <div>CURB STOPS SHALL CONFORM TO AWWA C800, BE BALL VALVE TYPE AND HAVE PADLOCK WING AND COMPRESSION CONNECTIONS.</div> <div>SERVICES 3" AND LARGER SHALL CONFORM TO SECTIONS 3.01 AND 3.02.</div> <div>3.4 VAULTS</div> <div>SEE SECTION 2.03.</div> <div>VAULTS ARE SQUARE, CONCRETE STRUCTURES USED FOR AIR RELEASE VALVES IN RECLAIMED WATER APPLICATIONS. VAULTS SHALL BE DESIGNED PER ASTM C913. VAULTS SHALL BE REINFORCED, PRECAST AND MONOLITHICALLY POURED TO INCLUDE ALL OPENINGS, MADE FROM TYPE II SULFATE- RESISTANT PORTLAND CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND CAPABLE OF WITHSTANDING AASHTO H-20 VERTICAL, DYNAMIC WHEEL LOAD RATING.</div> <div>VAULTS SHALL HAVE, AT A MINIMUM, A 5' X 5' INSIDE AREA AND 6" BASE THICKNESS. THE MAXIMUM HEIGHT SHALL BE 5.5' FROM TOP OF BASE SLAB TO FINISHED GRADE.</div> <div>JOINTS SHALL BE SEALED WITH FLEXIBLE PLASTIC JOINT SEALER FOR A WATERTIGHT SEAL MANUFACTURED BY RAM-NEK OR RUB'R NEK, OR APPROVED EQUAL, PER ASTM C990.</div> <div>VAULTS SHALL HAVE US FOUNDRY 667 RING AND CR (OUTER) AND CE (INNER), VENTED COVER, WITH UCNSB SPECIFIC CASTING PER ASTM A48.</div> <div>3.5 CASINGS</div> <div>A. DUCTILE IRON</div> <div>SEE SECTION 3.01.</div> <div>B. PVC</div> <div>PVC CASINGS FOR 1" OR 2" POTABLE WATER SERVICES SHALL BE SCHEDULE 40. PVC CASINGS FOR WATER MAINS SHALL BE DR 25, MINIMUM.</div> <div>C. HDPE</div> <div>HDPE CASINGS SHALL BE DR 13.5, MINIMUM.</div> <div>D. FUSIBLE PVC</div> <div>FUSIBLE PVC CASINGS REQUIRE UCNSB ENGINEERING DEPARTMENT APPROVAL.</div> <div>E. STEEL</div> <div>STEEL SHALL CONFORM TO ASTM A139 GRADE B AND HAVE A BLACK PROTECTIVE BITUMINOUS COATING, MINIMUM OF 5 MILS THICK, INSIDE AND OUT.</div>	<div>UTILITY CONSTRUCTION NOTES:</div> <div>1. ALL ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ELECTRICAL SERVICE RULES AND STANDARDS, UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH – OCTOBER 2010 EDITION AND THE NATIONAL ELECTRIC SAFETY CODE.</div> <div>2. ALL WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH POTABLE WATER RULES, DESIGN AND CONSTRUCTION SPECIFICATIONS, UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH – AUGUST 2015 EDITION.</div> <div>3. ALL SANITARY SEWER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH WASTEWATER RULES, DESIGN AND CONSTRUCTION SPECIFICATIONS, UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH – AUGUST 2015 EDITION.</div> <div>4. ALL REUSE/RECLAIM WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH RECLAIMED WATER RULES, DESIGN AND CONSTRUCTION SPECIFICATIONS, UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH – AUGUST 2015 EDITION.</div>																																																				
<table><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DATE</td><td>REVISIONS</td><td>BY</td><td>CHECKED</td><td></td></tr></table>																															DATE	REVISIONS	BY	CHECKED		<div>CONSTRUCTION PLANS</div> <div>WESTSIDE APARTMENTS</div> <div>NEW SMYRNA BEACH, FLORIDA</div>	<div><div>FEG</div><div>FLORIDA ENGINEERING GROUP</div><div>Engineering the Future</div></div>	<div>5127 S. Orange Avenue, Suite 200</div> <div>Orlando, FL 32809</div> <div>Phone: 407-895-0324</div> <div>Fax: 407-895-0325</div> <div>www.feg-inc.us</div>	<div>LEGEND NOTES AND SPECIFICATIONS</div> <div>(2 OF 2)</div> <table><tr><td>DESIGNED BY</td><td>DRAWN BY</td><td>CHECKED BY</td><td>APPROVED BY</td></tr><tr><td>SJS</td><td>JT</td><td>SJS</td><td>SJS</td></tr></table>	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	SJS	JT	SJS	SJS	<table><tr><td>PROJECT NO.</td><td>20-145</td></tr><tr><td>SCALE</td><td>NOTED</td></tr><tr><td>DATE</td><td>JANUARY, 2021</td></tr><tr><td>SHEET NO.</td><td>C-3B</td></tr><tr><td>SHEET 8</td><td>OF 25</td></tr></table> <div><div>AR J. SEBALL</div><div>FLORIDA ENGINEERING GROUP, INC.</div><div>CERTIFICATE No. EB 6006595</div><div>No 42075</div><div>STATE OF FLORIDA</div><div>PROFESSIONAL ENGINEER</div><div>License No. 12517</div></div>	PROJECT NO.	20-145	SCALE	NOTED	DATE	JANUARY, 2021	SHEET NO.	C-3B	SHEET 8	OF 25	<div>THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBALL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE.</div> <div>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</div>
DATE	REVISIONS	BY	CHECKED																																																								
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY																																																								
SJS	JT	SJS	SJS																																																								
PROJECT NO.	20-145																																																										
SCALE	NOTED																																																										
DATE	JANUARY, 2021																																																										
SHEET NO.	C-3B																																																										
SHEET 8	OF 25																																																										





### DEMOLITION KEYNOTES

- D1. F.D.O.T. TYPE "III" SILT FENCE EROSION CONTROL BARRIER.
- D2. SYNTHETIC EROSION CONTROL BARRIER, TYPICAL.
- D3. 25'x50' GRAVEL CONSTRUCTION ENTRANCE.
- D4. REMOVE EXISTING LIGHT POLE AND POWER POLE.
- D5. REMOVE EXISTING OVERHEAD ELECTRICAL LINE.
- D6. REMOVE EXISTING DRAINAGE STRUCTURE & ASSOCIATED PIPING.
- D7. REMOVE EXISTING WATER VALVE & ASSOCIATED PIPING.
- D8. REMOVE EXISTING SEWER STRUCTURE & ASSOCIATED PIPING.
- D9. SAW, CUT AND REMOVE EXISTING CONCRETE, ASPHALT WITHIN HATCH AREA, SEE DEMOLITION NOTE 6 FOR ADDITIONAL INFORMATION REGARDING REMOVAL LIMITS. ENTIRE PAVEMENT SECTION (ASPHALT, BASE, SUB-BASE) IS TO BE REMOVED FROM AREAS INTENDED TO BE USED AS LANDSCAPE AND PERVIOUS COVER. THESE AREAS SHALL BE SCARIFIED TO ALLOW ADEQUATE WATER INFILTRATION.
- D10. DEMOLISH AND COMPLETELY REMOVE EXISTING BUILDING, ITS ASSOCIATED STRUCTURES, FOUNDATIONS, AND OTHER RELATED APPURTENANCES.
- D11. REMOVE EXISTING POST.
- D12. REMOVE EXISTING TREE.

### NOTES:

1. ALL EXCESS FILL MATERIAL SHALL BE HAULED OFFSITE.
2. SEDIMENTATION CONTROLS AND BMPs SHALL PREVENT STORMWATER RUNOFF WITH TURBIDITY GREATER THAN 29 NTUS FROM LEAVING THE CONSTRUCTION SITE.

### CONTRACTOR ACKNOWLEDGEMENT:

THIS PLAN HAS BEEN PREPARED UNDER \_\_\_\_\_ DIRECTION AND KNOWLEDGE. I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

DATE:

(NOTE: CONTRACTOR IS REQUIRED TO REVIEW & SIGN THIS PLAN PRIOR TO START CONSTRUCTION)

### PLAN LEGEND

- SAW CUT & REMOVE EXISTING ASPHALT & CONCRETE IN HATCHED AREAS.
- EXISTING TREE TO BE REMOVED.
- EXISTING TREE TO REMAIN.
- SILT FENCE EROSION CONTROL BARRIER
- SYNTHETIC EROSION CONTROL BARRIER

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



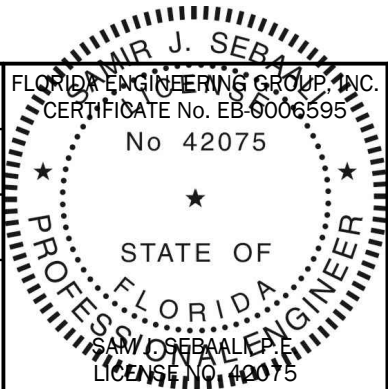
5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325

www.feg-inc.us

### SITE DEMOLITION AND STORMWATER PREVENTION PLAN

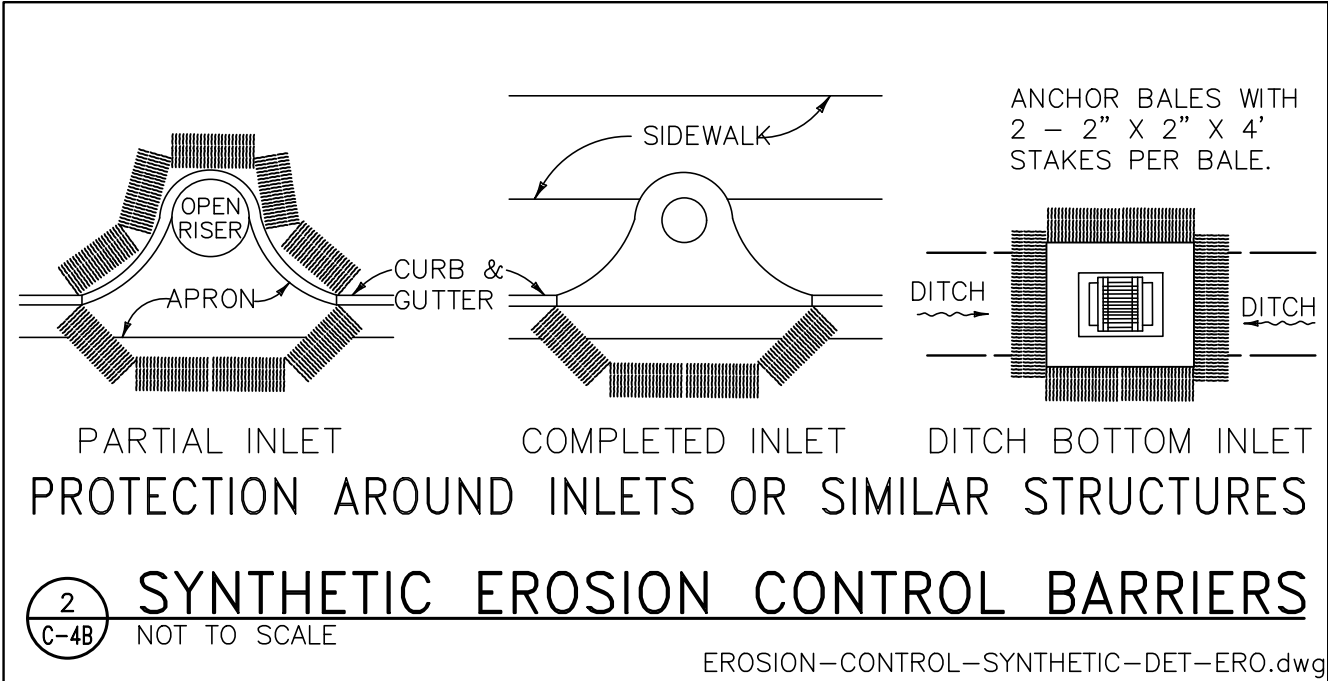
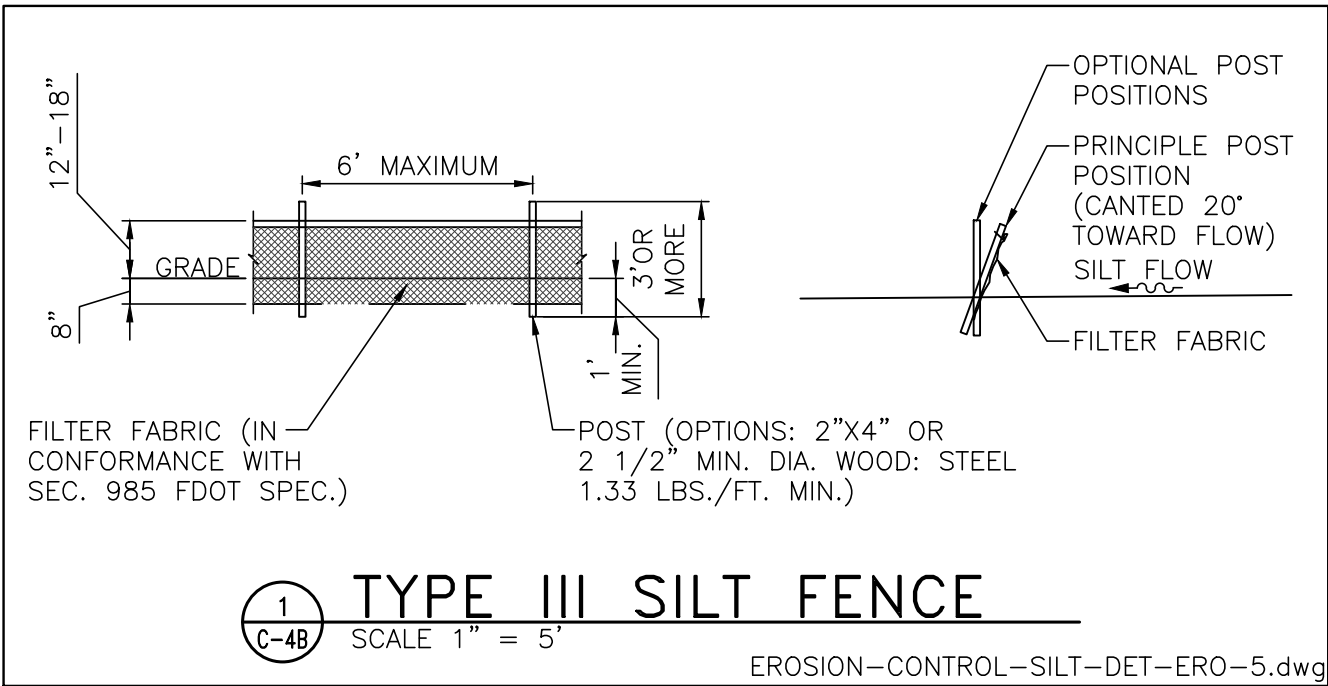
DESIGNED BY SJS  
DRAWN BY JT  
CHECKED BY SJS  
APPROVED BY SJS

PROJECT NO. 20-145  
SCALE 1"=30'  
DATE JANUARY, 2021  
SHEET NO. C-4A  
SHEET 9 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBALL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



## EROSION CONTROL SITE DESCRIPTION NOTES:

1. THE PROPOSED CONSTRUCTION ACTIVITY WILL ENTAIL THE CLEARING & GRUBBING OF A 6.55 ACRE SITE LOCATED AT GREENLAWN STREET, NEW SMYRNA BEACH, TO BUILD AN ASSISTED LIVING FACILITY, ITS ASSOCIATED PARKING, DRAINAGE & UTILITIES.
2. THE SEQUENCE OF SOILS DISTURBANCE ACTIVITY IS AS FOLLOWS:
  - A. INSTALL SILT FENCE AS SHOWN ON THE PLANS & PROVIDE TREE PROTECTION ON SITE, IF APPLICABLE.
  - B. ROUGH GRADE PROPOSED POND AREA(S) OR TEMPORARY SEDIMENTATION BASIN(S).
  - C. CLEAR & GRUB THE AREA TO BE DISTURBED. ENSURE THAT DRAINAGE FROM SITE DURING CONSTRUCTION IS CONVEYED TO THE POND(S) OR TEMPORARY SEDIMENTATION BASIN(S).
  - D. PLACE FILL ON-SITE TO BRING THE SITE UP TO THE PROPOSED GRADES.
  - E. BEGIN COMPACTION / STABILIZATION PROCESS.
3. THE TOTAL SITE AREA IS 13.46 ACRES & THE AREA TO BE DISTURBED IS 6.55 ACRES.
4. THE EXISTING SOIL IS MYAKKA-MYAKKA WET FINE SAND. THE QUALITY OF THE STORMWATER DISCHARGE IS CONSISTENT W/ THE RUNOFF GENERATED BY A RESIDENTIAL SITE.
5. THE TOTAL DRAINAGE AREA FOR THE PROJECT IS APPROXIMATELY 6.55 ACRES.
6. THE LATITUDE & LONGITUDE FOR THE DISCHARGE POINTS IS LAT: XX' XX' XX" LONG: XX' XX' XX". THE RECEIVING WATER BODY IS THE XX DESIGNED TO RECEIVE XXXXXXXXXXXXXXXX & THEN EVENTUALLY DISCHARGES TO XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.
7. WASTE DISPOSAL SHALL BE IMPLEMENTED IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. ALL TRUCKS EXITING THE SITE WILL BE HOSED, ITS LOAD COVERED and THE COVER PROPERLY SECURED. THE STORAGE, APPLICATION, GENERATION & MIGRATION OF ALL FERTILIZERS, HERBICIDES, PESTICIDES & TOXIC MATERIAL SHALL BE IN ACCORDANCE W/ LOCAL, STATE & FEDERAL REGULATIONS.
8. CONTRACTOR SHALL IDENTIFY THE INDIVIDUAL(S) RESPONSIBLE FOR THE WEEKLY & REQUIRED INSPECTIONS. A REPORTING SYSTEM ENTAILING THE ITEMS TO BE INSPECTED & THEIR CONDITION SHOULD BE DOCUMENTED & PLACED IN A DEDICATED FILING SYSTEM THAT WILL REMAIN ON THE PROJECT SITE, ACCESSIBLE TO THE CONSTRUCTION TEAM & TO THE F.D.E.P. INSPECTORS.
9. INSPECTIONS: CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCH. A RAIN GAUGE WILL BE ON SITE TO MEASURE THE RAINFALL AMOUNT. THE CONTRACTOR SHALL DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.
10. ALL EXCESS FILL MATERIAL SHALL BE HAULED OFFSITE.
11. SEDIMENTATION CONTROLS AND BMPS SHALL PREVENT STORMWATER RUNOFF WITH TURBIDITY GREATER THAN 29 NTUS FROM LEAVING THE CONSTRUCTION SITE.

## EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, & LOCAL CODES, ORDINANCES, & REGULATIONS GOVERNING POLLUTION OF THE ENVIRONMENT & SHALL IMPLEMENT ALL MEASURES NEEDED TO ENSURE ADEQUATE EROSION & SEDIMENT CONTROL DURING THE ENTIRE DURATION OF CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES SHALL CONFORM TO CITY OF NEW SMYRNA BEACH, ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, & FLORIDA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. INSTALLATION OF SILT FENCES & TURBIDITY BARRIERS SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS & STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
2. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE APPLIED AS A PERIMETER DEFENSE AGAINST THE TRANSPORTATION OF SILT & SEDIMENTS OFF THE PROJECT SITE OR INTO ADJACENT WATER BODIES OR WETLANDS.
3. THE CONTRACTOR SHALL PREPARE & IMPLEMENT AN EROSION CONTROL PLAN AS PART OF THE SCOPE OF WORK COVERED BY THESE PLANS. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION & SEDIMENT TRANSPORT DURING CONSTRUCTION. THE FLORIDA DEVELOPMENT MANUAL "A GUIDE TO SOUND LAND & WATER MANAGEMENT" MAY BE USED AS REFERENCE FOR RECOMMENDED BEST MANAGEMENT PRACTICES RELATED TO EROSION & SEDIMENT CONTROL.
4. THE CONTRACTOR SHALL SUBMIT THE EROSION CONTROL PLAN TO THE OWNER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
  - A. STOCKPILING OF MATERIAL  
NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
  - B. EXPOSED AREA LIMITATION & PROTECTION  
THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING & GRUBBING OPERATIONS, OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF OFF-SITE SEDIMENT TRANSPORT. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING EFFECTIVE EROSION & SEDIMENT CONTROL MEASURES SUCH AS SILT SCREENS, SYNTHETIC BALES, TURBIDITY BARRIERS, SWALES, OR A COMBINATION OF THESE & OTHER MEASURES AS WARRANTED.
  - C. INLET PROTECTION  
INLETS & CATCH BASINS SHALL BE PROTECTED DURING CONSTRUCTION FROM SEDIMENT LADEN STORMWATER RUNOFF BY PROVIDING A COMBINATION OF SILT SCREENS, SYNTHETIC BALES, FILTER FABRIC COVERS OR OTHER MEASURES AS NECESSARY TO CONTROL THE TRANSPORT OF SEDIMENT.
  - D. TEMPORARY GRASSING  
AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. SLOPES STEEPER THAN 6:1 SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES OF LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES. THE SEEDED OR SEEDED & MULCHED AREAS SHALL BE ROLLED & WATERED AS NEEDED TO ENSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% OF GOOD GRASS COVER, THE AREAS WILL BE REWORKED & ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER. REWORKED & ADDITIONAL SEED APPLIED.
  - E. MAINTENANCE  
EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION & CONTROL MEASURES ON A WEEKLY BASIS & 24 HOURS FOLLOWING RAINFALL EVENTS (0.5" OR GREATER) & IMMEDIATELY REPAIR ANY OBSERVED DAMAGED CONTROLS. ALL EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
6. APPROXIMATE SLOPES AFTER MAJOR GRADING VARIES BETWEEN 0.8% TO 2%. MAXIMUM SLOPES ARE FOUND @ THE DRIVEWAY & THEY RANGE BETWEEN 2% TO 5%.
7. AREAS OF SOILS DISTURBANCE IS LIMITED TO THE AREA WITHIN THE SILT FENCE LIMITS AS SHOWN ON THIS PLAN.
8. ALL DISTURBED PERVIOUS AREAS WILL BE SODDED, UNLESS OTHERWISE NOTED.
9. NO WETLANDS & SURFACE WATERS EXIST ON THIS PROJECT.

## DEMOLITION NOTES

1. THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF EXISTING UTILITIES & OTHER FEATURES ARE SHOWN ON THE PLANS ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF ALL EXISTING UTILITIES & OTHER FEATURES AFFECTING THE WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY FEG OF ANY DISCREPANCIES WHICH MAY AFFECT THE PROPOSED WORK.
2. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.
3. THE CONTRACTOR SHALL, PRIOR TO INITIATION OF ANY SITE CLEARING OR OTHER CONSTRUCTION ACTIVITIES, INSTALL SILT SCREENS DOWNSTREAM OF ALL AREAS WHICH HAVE POTENTIAL OF EROSION OR SEDIMENT TRANSPORT OFFSITE OR TO WATER BODIES. THE CONTRACTOR SHALL IMPLEMENT OTHER STRUCTURAL EROSION CONTROL MEASURES IF REQUIRED TO PREVENT SEDIMENT TRANSPORT TO OFF-SITE AREAS & WATER BODIES.
4. ALL TRASH, DEBRIS, & OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
5. ANY EXCAVATED TRENCHES ARE TO BE BACKFILLED WITH CLEAN SAND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (AASHTO T-180). REFER TO GEOTECHNICAL REPORT FOR SPECIFIC COMPACTION REQUIREMENTS UNDER BUILDING & OTHER STRUCTURES.
6. ALL EXISTING CONCRETE TO BE REMOVED SHALL BE SAWCUT & REMOVED @ THE FIRST AVAILABLE GOOD JOINT & REPLACED TO MATCH EXISTING.
7. THE CONTRACTOR SHALL CONTACT THE GAS UTILITY FOR LOCATION BEFORE EXCAVATION. CHAPTER 17-153 F.S. REQUIRES THAT AN EXCAVATOR NOTIFIES ALL GAS UTILITIES AT LEAS TWO DAYS PRIOR TO EXCAVATING. ALSO CALL 1-800-432-4770 FOR SUNSHINE LOCATES. F.S. 556.101 THROUGH 111.
8. CONTRACTOR TO PROVIDE TREE PROTECTION AROUND TREES TO REMAIN AS REQUIRED BY THE LOCAL JURISDICTION.

## DUST CONTROL & PREVENTION:

- THE SURFACE AREA OF OPEN, RAW ERODIBLE SOILS EXPOSED BY CLEARING & GRUBBING OPERATIONS OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF DUST PRODUCTION. IN ADDITION,
1. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING DUST CONTROL CONTROL MEASURES SUCH AS STABILIZING EXPOSED SOILS USING VEGETATION, MULCHING, SPRAY-ON ADHESIVES, CALCIUM CHLORIDE, WET SUPPRESSION (WATERING) AND STONE/GRAVEL LAYERING AS APPLICABLE FOR THE PROJECT AND DEEMED NECESSARY BY THE CONTRACTOR TO CONTROL DUST.
  2. ONSITE VEHICLE TRAFFIC SHOULD BE LIMITED TO A MAXIMUM 15 MPH SPEED, AND THE NUMBER AND ACTIVITY OF VEHICLES SHOULD BE CONTROLLED AT ANY GIVEN TIME.
  3. A MOBILE UNIT SHOULD BE AVAILABLE TO APPLY WATER TO CONTROL DUST WHEN NEEDED.
  4. COVERS SHALL BE PROVIDED FOR ALL HAUL TRUCKS TRASPORTING MATERIALS THAT CONTRIBUTE TO DUST.
  5. IF CHEMICALS OR STABILIZATION METHOD IS USED, THE CHEMICALS SHOULD BE APPROVED FOR USE BY THE APPROPRIATE REGULATORY AGENCIES AND SHALL NOT CREATE ANY ADVERSE IMPACTS TO STORMWATER, PLANT LIFE, WATER BODIES, GROUNDWATER, OR FISH AND WILDLIFE.

## SOIL TRACKING PREVENTION

1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT THE LOCATION SHOWN ON THE PLANS. TRAFFIC FROM UNSTABILIZED AREAS OF CONSTRUCTION SHALL BE DIRECTED THRU THE STPD BARRIER. FLAGGING OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT & DIRECT VEHICULAR EGRESS ACROSS THE STPD.
2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED & APPROVED BY THE ENGINEER &/OR CITY OF NEW SMYRNA BEACH PRIOR TO ITS USE.
3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE & CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER &/OR CITY OF NEW SMYRNA BEACH.
4. AGGREGATES SHALL BE AS DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT & ARE UNSUITABLE.
5. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSITE TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT THE MUD TRACKED.

## EROSION CONTROLS FOR NON STORMWATER DISCHARGES:

### A) WASTE DISPOSAL:

WASTE MATERIAL:  
ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A METAL DUMPSTER WHICH WILL BE MAINTAINED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY IN CITY OF NEW SMYRNA BEACH. THE DUMPSTER WILL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS OFTEN AS NECESSARY TO NOT CAUSE ON-SITE DISPOSAL OF WASTE. THE TRASH WILL BE HAULED TO AN APPROVED CITY OF NEW SMYRNA BEACH LANDFILL. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

### HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE & FEDERAL REGULATIONS. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR HAZARDOUS WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

### SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL REGULATION.

### B) OFFSITE VEHICLE TRACKING:

A GRAVEL CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULAIN.

## NPDES NOTE

A NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) IS REQUIRED FOR THE PROJECT, UNLESS OBTAINED BY THE OWNER, THE CONTRACTOR SHALL APPLY AND OBTAIN A NOI NPDES PRIOR TO START OF CONSTRUCTION ACTIVITIES.

DATE	REVISIONS	BY	CHECKED		

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



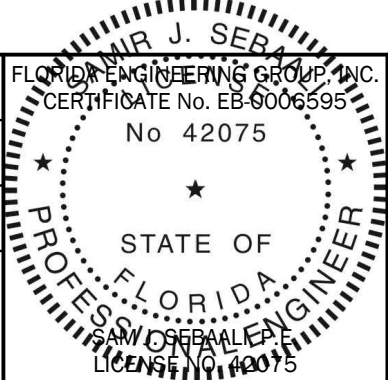
5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325

www.feg-inc.us

## SITE DEMOLITION AND STORMWATER PREVENTION NOTES

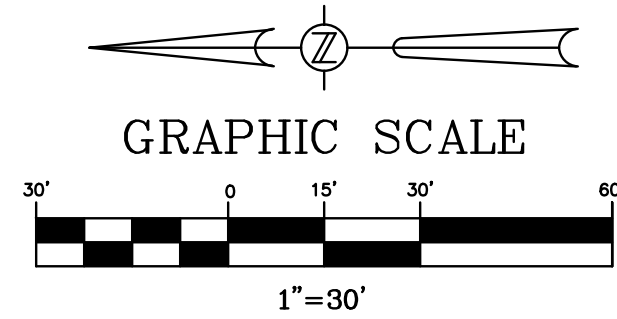
DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

PROJECT NO. 20-145	SCALE NOTED
DATE JANUARY, 2021	SHEET NO. C-4B
SHEET 10	OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBAIL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



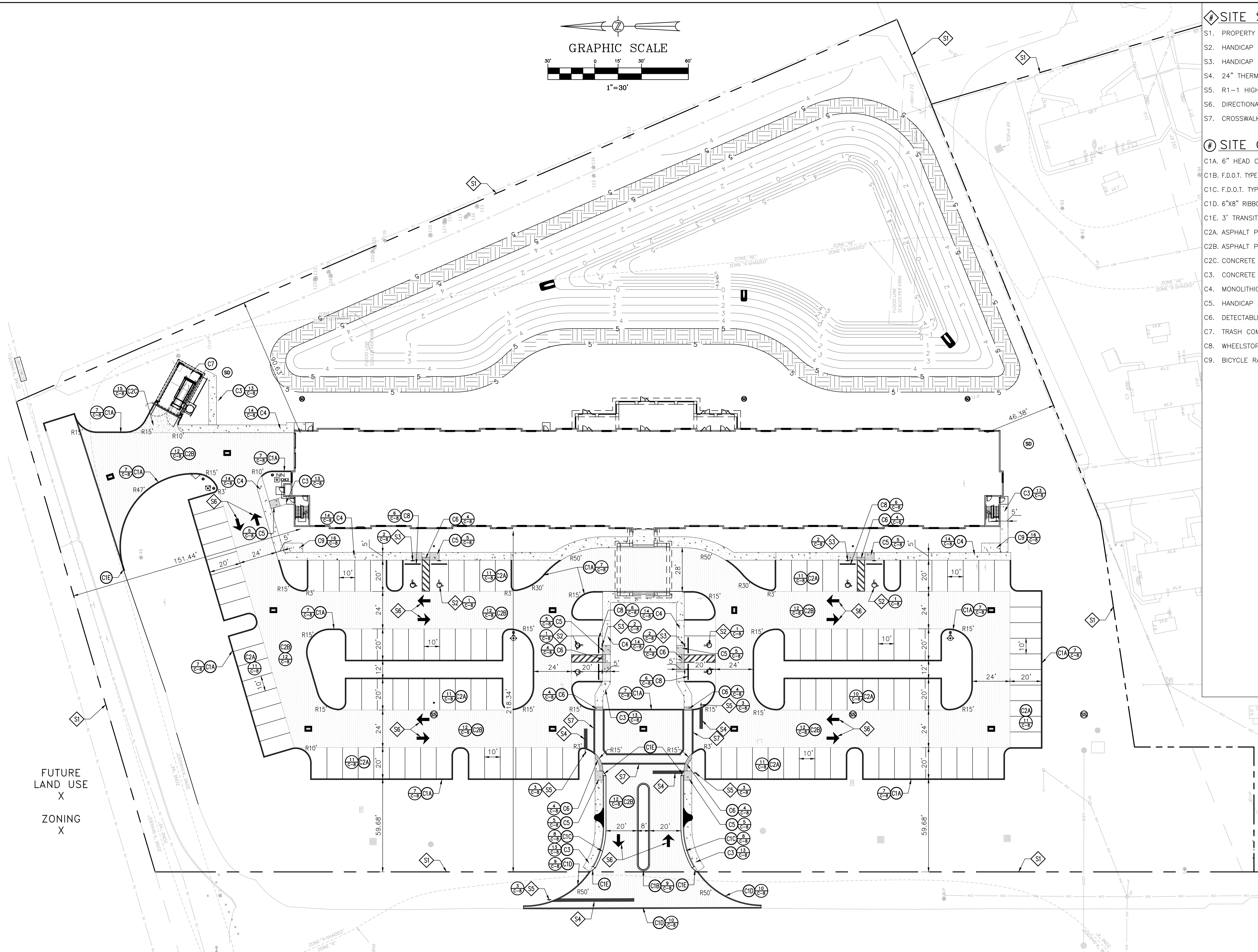


### # SITE STRIPING & SIGNAGE KEYNOTES

- S1. PROPERTY BOUNDARY.
- S2. HANDICAP PARKING STALL, TYPICAL.
- S3. HANDICAP SIGN.
- S4. 24" THERMOPLASTIC STOP BAR.
- S5. R1-1 HIGH INTENSITY REFLECTORIZED "STOP" SIGN.
- S6. DIRECTIONAL ARROWS PER LATEST F.D.O.T. STANDARD PLANS INDEX 711-001, TYPICAL.
- S7. CROSSWALK STRIPING PER LATEST F.D.O.T. STANDARD PLANS INDEX 711-001, TYPICAL.

### # SITE CONSTRUCTION KEYNOTES

- C1A. 6" HEAD CURB, TYPICAL.
- C1B. F.D.O.T. TYPE "B" MEDIAN CURB & TRAFFIC SEPARATOR PER LATEST F.D.O.T. STANDARD PLANS INDEX 520-001, TYPICAL.
- C1C. F.D.O.T. TYPE "F" CURB & GUTTER PER LATEST F.D.O.T. STANDARD PLANS INDEX 520-001, TYPICAL.
- C1D. 6"x8" RIBBON CURB.
- C1E. 3' TRANSITION CURB.
- C2A. ASPHALT PAVEMENT. LIGHT-DUTY IN PARKING SPACES.
- C2B. ASPHALT PAVEMENT. HEAVY-DUTY IN DRIVE AISLES.
- C2C. CONCRETE PAVEMENT.
- C3. CONCRETE SIDEWALK, TYPICAL.
- C4. MONOLITHIC CURB & SIDEWALK, TYPICAL.
- C5. HANDICAP ACCESS RAMP WITH A MAXIMUM 12:1 SLOPE, TYPICAL.
- C6. DETECTABLE WARNING SURFACE PER FLORIDA BUILDING CODE 2004.
- C7. TRASH COMPACTOR ENCLOSURE. REFER TO ARCHITECTURAL PLANS.
- C8. WHEELSTOP PER LATEST F.D.O.T. STANDARD PLANS INDEX 520-001, TYPICAL.
- C9. BICYCLE RACK.



FUTURE  
LAND USE  
X  
ZONING  
X

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA

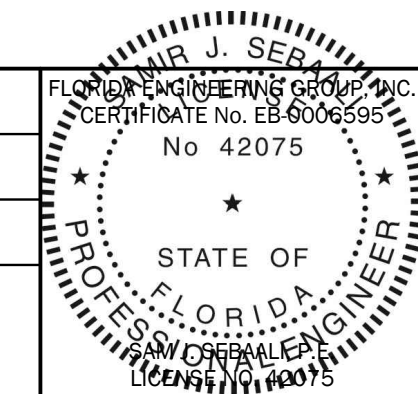


5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

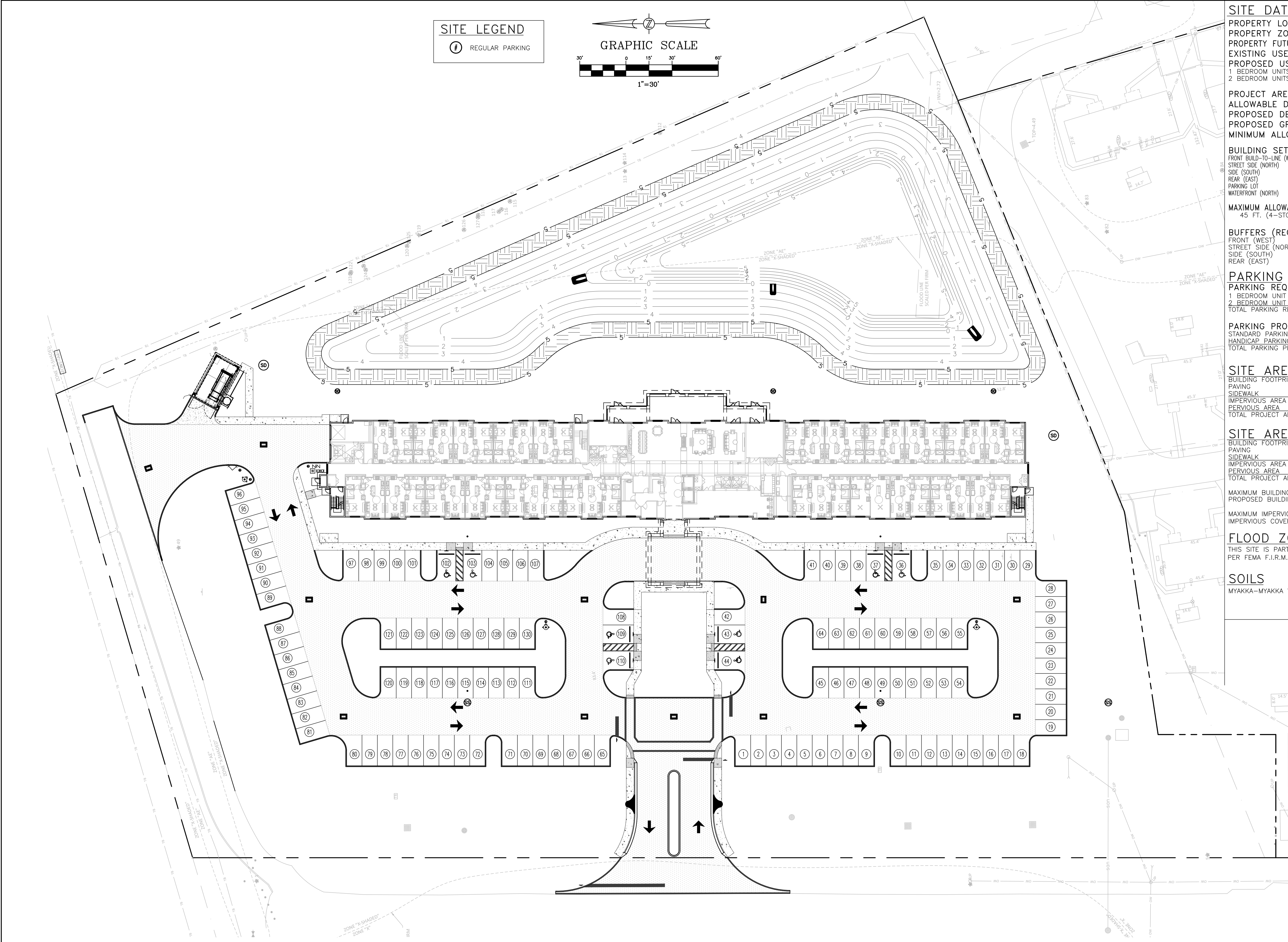
### SITE GEOMETRY PLAN

DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

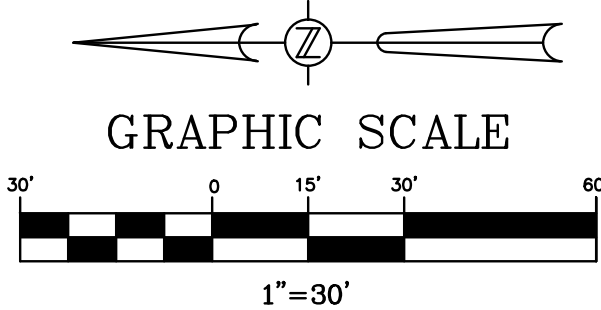
PROJECT NO.  
20-145  
SCALE  
1"=30'  
DATE  
JANUARY, 2021  
SHEET NO.  
C-5A  
SHEET 11 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS,  
HAS BEEN ELECTRONICALLY SIGNED AND  
SEALED BY SAM J. SEBALL, P.E. ON JANUARY  
XX, 2021 USING A DIGITAL SIGNATURE.  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.



SITE LEGEND  
④ REGULAR PARKING



**SITE DATA**  
PROPERTY LOCATION: 600 GREENLAWN STREET, NEW SMYRNA BEACH FL, 32168  
PROPERTY ZONING: R-4  
PROPERTY FUTURE LAND USE DESIGNATION: HIGH DENSITY RESIDENTIAL  
EXISTING USE: CITY HOUSING DEVELOPMENT  
PROPOSED USE: 80 MF UNITS  
1 BEDROOM UNITS 76 UNITS  
2 BEDROOM UNITS 4 UNITS  
PROJECT AREA: 6.55 ACRES  
ALLOWABLE DENSITY: 18 D.U./ACRE  
PROPOSED DENSITY: 12.2 UNITS/AC  
PROPOSED GROSS FLOOR AREA: 29,043 S.F.  
MINIMUM ALLOWABLE LIVING AREA: 450 S.F.

**BUILDING SETBACKS (REQUIRED)**  
FRONT BUILD-TO-LINE (WEST) 20'+1.5' FOR HIGH ABOVE 30'  
STREET SIDE (NORTH) 20'+1.5' FOR HIGH ABOVE 30'  
SIDE (SOUTH) 20'+1.5' FOR HIGH ABOVE 30'  
REAR (EAST) 20'+1.5' FOR HIGH ABOVE 30'  
PARKING LOT 7'  
WATERFRONT (NORTH) 20' FROM BULKHEAD OR MEAN HIGH WATER LINE  
**BUILDING SETBACKS (PROPOSED)**  
FRONT BUILD-TO-LINE (WEST) 218'  
STREET SIDE (NORTH) 151'  
SIDE (SOUTH) 46'  
REAR (EAST) 90'  
PARKING LOT >7'

**MAXIMUM ALLOWABLE BUILDING HEIGHT**  
45 FT. (4-STORIES)  
**BUILDING HEIGHT PROPOSED**  
4 STORIES < 45 FT.

**BUFFERS (REQUIRED)**  
FRONT (WEST) 20'  
STREET SIDE (NORTH) 7'  
SIDE (SOUTH) 20'  
REAR (EAST) 20'  
**BUFFERS (PROPOSED)**  
FRONT (WEST) >20'  
STREET SIDE (NORTH) >7'  
SIDE (SOUTH) >20'  
REAR (EAST) >20'

**PARKING**  
**PARKING REQUIRED**  
1 BEDROOM UNIT 76 UNITS x (2 SPACES PER 1 UNIT) 152 SPACES  
2 BEDROOM UNIT 4 BEDS x (2 SPACES PER 1 UNIT) 8 SPACES  
TOTAL PARKING REQUIRED 160 SPACES  
**PARKING PROVIDED**  
STANDARD PARKING SPACES 122 SPACES  
HANDICAP PARKING 8 SPACES  
TOTAL PARKING PROVIDED 130 SPACES

**SITE AREA CALCULATIONS (EXISTING)**  
BUILDING FOOTPRINT 30,366 S.F.  
PAVING 41,208 S.F.  
SIDEWALK 27,032 S.F.  
IMPERVIOUS AREA 98,611 S.F. 2.26 AC. 34.57 %  
PERVIOUS AREA 186,663 S.F. 4.29 AC. 65.43 %  
TOTAL PROJECT AREA 285,274 S.F. 6.55 AC. 100.00 %

**SITE AREA CALCULATIONS (PROPOSED)**  
BUILDING FOOTPRINT 29,043 S.F.  
PAVING 82,254 S.F.  
SIDEWALK 6,043 S.F.  
IMPERVIOUS AREA 117,340 S.F. 2.69 AC. 41.13 %  
PERVIOUS AREA 167,934 S.F. 3.86 AC. 58.87 %  
TOTAL PROJECT AREA 285,274 S.F. 6.55 AC. 100.00 %

**MAXIMUM BUILDING COVER ALLOWED** 35 %  
**PROPOSED BUILDING COVER** 10.18 %

**MAXIMUM IMPERVIOUS COVER ALLOWED** 60 %  
**IMPERVIOUS COVER PROPOSED** 41.13 %

**FLOOD\_ZONE**  
THIS SITE IS PARTIALLY WITHIN FLOOD\_ZONE X WITH PORTIONS LYING WITHIN FLOOD\_ZONE AE, AS SHOWN HEREON, PER FEMA F.I.R.M. PANELS 12127C0540J, 12127C0541J, AND 12127C0543J DATED 09/29/2017.

**SOILS**  
MYAKKA-MYAKKA WET FINE SAND

DATE	REVISIONS	BY	CHECKED		

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



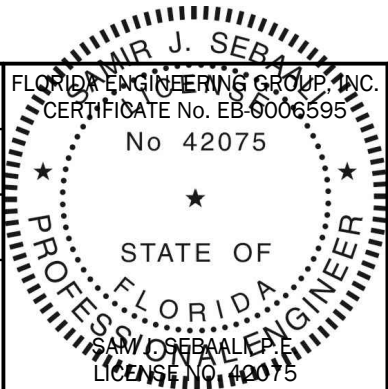
5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325

www.feg-inc.us

SITE PARKING PLAN AND  
GEOMETRY NOTES

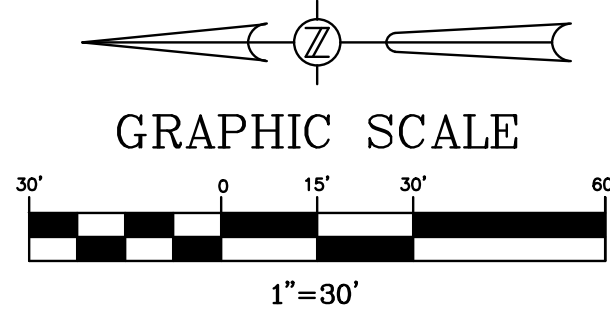
DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

PROJECT NO. 20-145
SCALE NOTED
DATE JANUARY, 2021
SHEET NO. C-5B
SHEET 12 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS,  
HAS BEEN ELECTRONICALLY SIGNED AND  
SEALED BY SAM J. SEBALL, P.E. ON JANUARY  
XX, 2021 USING A DIGITAL SIGNATURE.  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.





# SITE DRAINAGE KEYNOTES

- D1. F.D.O.T. MITERED END SECTION PER LATEST F.D.O.T. STANDARD PLANS INDEX 430-021, TYPICAL.  
D2. F.D.O.T. TYPE "C" DITCH BOTTOM INLET PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-052, TYPICAL.  
D3. F.D.O.T. TYPE "4" DITCH BOTTOM INLET PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-020, TYPICAL.  
D4. F.D.O.T. STORM DRAINAGE MANHOLE PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-001, TYPICAL.  
D5. HDPE STORM CLEAN-OUT.

# GRADING KEYNOTES

- G1. F.D.O.T. TYPE "III" SILT FENCE EROSION CONTROL BARRIER, TYPICAL.  
G2. MATCH EXISTING PAVEMENT GRADE. OVERLAY EXISTING PAVEMENT AS NEEDED TO PROVIDE A SMOOTH TRANSITION, TYPICAL.

STORM DRAINAGE PIPE CHART

DESIGNATION	PIPE			FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER
	LENGTH (LINEAR FEET)	SIZE & TYPE	SLOPE		
SP-1	95	24" R.C.P.	0.4%	MES-1	SD-1
SP-2	92	24" R.C.P.	0.4%	SD-1	SD-2
SP-3	74	24" R.C.P.	0.4%	SD-2	SD-3
SP-4	162	18" R.C.P.	0.4%	SD-3	SD-4
SP-4A	74	15" R.C.P.	0.4%	SD-4	SD-4A
SP-4B	56	15" R.C.P.	0.4%	SD-4	SD-4B
SP-5	63	18" R.C.P.	0.4%	SD-4	SD-5
SP-6	60	15" R.C.P.	0.4%	SD-5	SD-6

SP-7	214	24" R.C.P.	0.3%	MES-2	SD-7
SP-8	48	24" R.C.P.	0.3%	SD-7	SD-8
SP-8A	74	15" R.C.P.	0.3%	SD-8	SD-8A
SP-9	103	24" R.C.P.	0.3%	SD-8	SD-9
SP-10	77	18" R.C.P.	0.3%	SD-9	SD-10
SP-11	154	18" R.C.P.	0.3%	SD-10	SD-11
SP-12	74	24" R.C.P.	0.3%	SD-11	SD-12

SP-13	68	18" R.C.P.	1.0%	MES-3	SD-13
SP-14	140	15" R.C.P.	1.0%	SD-13	SD-14
SP-15	280	15" R.C.P.	1.0%	SD-13	SD-15

PLAN LEGEND

- SYNTHETIC EROSION CONTROL BARRIER  
SILT FENCE EROSION CONTROL BARRIER

EROSION CONTROL NOTE:

PROVIDE AND MAINTAIN SYNTHETIC SEDIMENT BARRIERS AT ALL INLETS DURING CONSTRUCTION. THIS IS REQUIRED IN ADDITION TO THE REQUIREMENTS SHOWN ON THE SWPPP.

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA

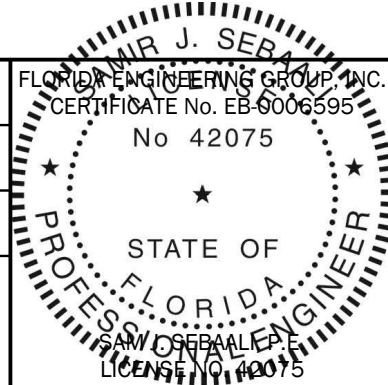


5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

SITE PAVING, GRADING, AND  
DRAINAGE PLAN

DESIGNED BY SJS  
DRAWN BY JT  
CHECKED BY SJS  
APPROVED BY SJS

PROJECT NO. 20-145  
SCALE 1"=30'  
DATE JANUARY, 2021  
SHEET NO. C-6A  
SHEET 13 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBALL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CONCRETE CONSTRUCTION NOTES

1. CONCRETE PRE-CONSTRUCTION MEETING
- A. THE CONCRETE CONTRACTOR ALONG WITH THE CONCRETE PRODUCER MAY REQUEST THROUGH THE GENERAL CONTRACTOR FOR A PRE-CONSTRUCTION MEETING PRIOR TO CONCRETE PLACEMENT.
- B. ATTENDEE: CONCRETE CONTRACTOR, CONCRETE PRODUCER, GENERAL CONTRACTOR, OWNER OR OWNER'S REPRESENTATIVE(S), ENGINEER OF RECORD, ARCHITECT, SITE CONTRACTOR, GEOTECHNICAL REPRESENTATIVE(S), ETC.
- C. AGENDA: INCLUDE BUT NOT LIMITED TO THE FOLLOWINGS; (CONTRACTOR MAY CONTACT THE FLORIDA CONCRETE & PRODUCTS ASSOCIATION FOR PRE-CONSTRUCTION MEETING CHECK LISTS)
- i. MIXTURE(S) APPROVAL
- ii. CONCRETE TESTING: TYPE, LOCATION OF SAMPLINGS, ETC.
- iii. CONCRETE DELIVERY: QUANTITY/HR, PUMP, CONVEYOR, ETC.
- iv. PLACEMENT: METHOD, QUANTITY/DAY, STAGING & CLEAN OUT LOCATION, ETC.
- v. FINISHING: CURING, JOINTING, ETC.
2. JOINTS FOR CONCRETE SLABS
- A. GENERAL – A JOINTING PLAN FOR THE ENTIRE PAVING AREA SHALL BE PREPARED BY THE CONCRETE CONTRACTOR & SUBMITTED TO THE ENGINEER OF RECORD (EOR) 2 WEEKS PRIOR TO PLACEMENT OF CONCRETE FOR THE EOR APPROVAL. THE CONTRACTOR MAY ALSO CONTACT THE FLORIDA CONCRETE & PRODUCTS ASSOCIATION (FC&PA) FOR TECHNICAL RESOURCES AND ASSISTANT.
- i. A SQUARE JOINTING PATTERN IS REQUIRED WHERE POSSIBLE. IF NECESSARY, RECTANGULAR PANELS CAN BE USED IF THE LONG DIMENSION IS NO MORE THAN 1.5 TIMES THE SHORT (e.g. 8' x 12'). JOINT SPACING SHALL NOT EXCEED THE FOLLOWING: 10 FEET IN A 4" THICK SLAB, 12 FEET IN A 5" THICK SLAB OR 15 FEET IN SLAB WITH THICKNESS OF 6" OR GREATER.
- ii. BOX OUT AREA AROUND MANHOLES, CATCH BASINS, DRAINAGE STRUCTURES & OTHER BUILT-IN STRUCTURES WITHIN THE PAVING AREA SHALL BE CIRCULAR WHERE POSSIBLE. A MINIMUM OFFSET OF 12" FROM ANY EDGE OF THE STRUCTURE. OBTAIN A COPY OF THE FC&PA STANDARD DETAILS FOR REFERENCE. CONSTRUCTION & CONTROL JOINTS SHALL BE CONTINUOUS THROUGH ADJACENT LANES & EXTEND THROUGH INTEGRAL CURB. JOINTS CAN BE TERMINATED & OFFSET AT ISOLATION JOINTS. WHERE JOINTS INTERFACE ANY RADIUS OR CURVATURE, OFFSET A MINIMUM OF 12" FROM EDGE OF PAVEMENT AND FORM JOINT 90 DEGREE TO EDGE OF PAVEMENT TO AVOID ACUTE ANGLE OR SMALL WEDGES OF CONCRETE AT CURVATURES. OBTAIN A COPY OF THE FC&PA STANDARD DETAILS FOR REFERENCE.
- B. CONSTRUCTION JOINTS – A CONSTRUCTION JOINT SEPARATES ONE DAY PLACEMENT TO THE NEXT DAY PLACEMENT. A CONSTRUCTION JOINT SHALL BE A MINIMUM OF 5 FEET FROM ANY ADJACENT CONTROL JOINT. NEXT DAY PLACEMENT SHALL BUTT UP TO THE EXISTING PAVEMENT AS A COLD JOINT. THE CONSTRUCTION JOINT MAY BE HAND-TOOLED WITH MAXIMUM 0.25" RADIUS AT THE EDGE OF THE JOINT. CONTROL JOINTS FROM BOTH PLACEMENT AREAS SHALL MATCH AND BE CONTINUOUS ACROSS THE CONSTRUCTION JOINT.
- C. CONTROL/CONTRACTION JOINTS – CONTROL JOINTS ARE JOINTS WITHIN THE PAVING AREA FORMED THROUGH TOOLING OR SAW CUTTING. CONTROL JOINTS ESTABLISH WEAK PLANES TO RELIEVE STRESSES DUE TO SHRINKAGE OR TEMPERATURE CHANGE. INSTALL CONTROL JOINTS WITHIN 12 HRS FROM THE TIME THE CONCRETE HITS THE GROUND OR OBTAIN IN WRITING APPROVAL FROM THE EOR BEYOND THE 12-HR TIME LIMIT.
- i. EARLY-ENTRY SAW CUTTING METHOD: CUT JOINT TO A MINIMUM OF 1" DEEP FOR PAVEMENT THICKNESS UP TO 8". CUTTING OF JOINT SHALL NOT CAUSE RAVELING TO THE EDGES OR DEFORMATION OF THE SURFACE DUE TO EQUIPMENT OR WORKER.
- ii. OTHER METHODS: INSTALL JOINT TO A MINIMUM OF 1/3 OF PAVEMENT DEPTH. FINISH EDGES WITH 0.25" RADIUS. OPERATION SHALL NOT CAUSE ANY DEFORMATION OF THE SURFACE.
- D. ISOLATION JOINTS – THESE JOINTS USE ISOLATION MATERIALS TO PREVENT FRESH CONCRETE FROM BONDING TO HARDENED CONCRETE SUCH AS, BUT NOT LIMITED TO, BUILDING FOUNDATIONS, SIDEWALKS, DRAINAGE STRUCTURES, LIGHTING & SIGNAGE BASES, RETAINING WALLS, CURBS, ETC. THE ISOLATION MATERIAL SHALL EXTEND THE FULL-DEPTH OF THE FRESH CONCRETE THICKNESS FROM ONE DAY PLACEMENT TO THE NEXT, WHERE JOINTS ARE MATCHED, ISOLATION MATERIAL IS NOT NECESSARY. (E.G. ONE LANE PAVING TO THE NEXT, INTEGRAL CURBS)
- E. ISOLATION JOINTS BETWEEN SLABS AT SOME GRADE SHALL BE FORMED WITH 0.25 INCH THICK NEOPRENE OR 0.50 INCH THICK ASPHALT IMPREGNATED FIBER FILLER WITH HYDROCARBON RESISTANT ELASTOMERIC FILL MATERIAL AS SEALER. ALL EDGES TO BE HAND TOOLED WITH MAXIMUM 0.50 INCH RADIUS.
- F. A SATISFACTORY ISOLATION JOINT CAN BE FORMED AT METAL BUILDING CURBS BY PLACING A STRIP OF CURING PAPER AGAINST THE METAL FORM & THEN PLACING THE FRESH CONCRETE AGAINST THE PAPER. THE EDGES OF THE SLAB SHALL BE HAND TOOLED WITH MAXIMUM 0.50 INCH RADIUS.
3. JOINTS SEALANT – A JOINT SEALING PLAN FOR THE AFFECTED AREA SHALL BE PREPARED BY THE CONCRETE CONTRACTOR & SUBMITTED TO THE EOR, ALONG WITH THE JOINTING PLAN, 2 WEEKS PRIOR TO PLACEMENT OF CONCRETE FOR THE EOR APPROVAL. NOT ALL JOINT WILL BE REQUIRED SEALING, THE CONCRETE CONTRACTOR IS TO RECOMMEND THE NECESSARY LOCATION AND TO PROVIDE SUPPORTING DOCUMENTATION FOR NON-SEALING AREAS. USE A POLYURETHANE SEALANT (TREMCO THC-900/THC-901 MULTI-COMPOUND) COMPOUND OR EQUIVALENT. THE CONCRETE CONTRACTOR IS TO SUBMIT SEALANT TYPE AND MANUFACTURER INFORMATION TO THE EOR FOR APPROVAL WHEN "EQUIVALENT" IS USE. JOINTS SHALL BE PREPARED BY FOLLOWING MANUFACTURER'S RECOMMENDATIONS PRIOR TO SEALING.

DRAINAGE STRUCTURE LEGEND

<b>MES-1</b> MITERED END SECTION PER F.D.O.T. STANDARD PLANS INDEX 430-021 INV. ELEV. 0.00	<b>SD-1</b> MANHOLE F.D.O.T. TYPE "B" TOP TYPE "P" STRUCTURE BOTTOM PER F.D.O.T. STANDARD PLANS INDEX 425-001 TOP ELEV. 7.50 INV. ELEV. 0.38 NE INV. ELEV. 0.38 NW	<b>SD-2</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 0.75 SE INV. ELEV. 0.75 W
<b>SD-3</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 1.05 E INV. ELEV. 1.05 N	<b>SD-4</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.70 INV. ELEV. 1.70 S INV. ELEV. 1.70 E INV. ELEV. 1.70 N INV. ELEV. 1.70 NW	<b>SD-4A</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 2.00 W
<b>SD-4B</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 6.20 INV. ELEV. 1.92 S	<b>SD-5</b> TYPE "4" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-020 TOP ELEV. 6.38 INV. ELEV. 1.95 SE INV. ELEV. 1.95 N	<b>SD-6</b> TYPE "4" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-020 TOP ELEV. 6.38 INV. ELEV. 2.19 S
<b>MES-2</b> MITERED END SECTION PER F.D.O.T. STANDARD PLANS INDEX 430-021 INV. ELEV. 0.00	<b>SD-7</b> MANHOLE F.D.O.T. TYPE "B" TOP TYPE "P" STRUCTURE BOTTOM PER F.D.O.T. STANDARD PLANS INDEX 425-001 TOP ELEV. 7.50 INV. ELEV. 0.64 SE INV. ELEV. 0.64 W	<b>SD-8</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 6.35 INV. ELEV. 0.78 E INV. ELEV. 0.78 NW INV. ELEV. 0.78 SW
<b>SD-8A</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.40 INV. ELEV. 1.00 SE	<b>SD-9</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 1.09 NE INV. ELEV. 1.09 SW	<b>SD-10</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 1.32 NE INV. ELEV. 1.32 S
<b>SD-11</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.70 INV. ELEV. 1.78 N	<b>SD-12</b> TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 5.25 INV. ELEV. 2.00 W	
<b>MES-3</b> MITERED END SECTION PER F.D.O.T. STANDARD PLANS INDEX 430-021 INV. ELEV. 0.00	<b>SD-13</b> STORM CLEAN-OUT TOP ELEV. 7.50 INV. ELEV. 0.68 E INV. ELEV. 0.68 S INV. ELEV. 0.68 N	<b>SD-14</b> STORM CLEAN-OUT TOP ELEV. 7.50 INV. ELEV. 2.08 N
<b>SD-15</b> STORM CLEAN-OUT TOP ELEV. 7.50 INV. ELEV. 3.48 S		

# SITE DRAINAGE KEYNOTES

- D1. F.D.O.T. MITERED END SECTION PER LATEST F.D.O.T. STANDARD PLANS INDEX 430-021, TYPICAL.
- D2. F.D.O.T. TYPE "C" DITCH BOTTOM INLET PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-052, TYPICAL.
- D3. F.D.O.T. TYPE "4" DITCH BOTTOM INLET PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-020, TYPICAL.
- D4. F.D.O.T. STORM DRAINAGE MANHOLE PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-001, TYPICAL.
- D5. HDPE STORM CLEAN-OUT.

# GRADING KEYNOTES

- G1. F.D.O.T. TYPE "III" SILT FENCE EROSION CONTROL BARRIER, TYPICAL.
- G2. MATCH EXISTING PAVEMENT GRADE. OVERLAY EXISTING PAVEMENT AS NEEDED TO PROVIDE A SMOOTH TRANSITION, TYPICAL.

STORM DRAINAGE PIPE CHART

DESIGNATION	PIPE			FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER
	LENGTH (LINEAR FEET)	SIZE & TYPE	SLOPE		
SP-1	95	24" R.C.P.	0.4%	MES-1	SD-1
SP-2	92	24" R.C.P.	0.4%	SD-1	SD-2
SP-3	74	24" R.C.P.	0.4%	SD-2	SD-3
SP-4	162	18" R.C.P.	0.4%	SD-3	SD-4
SP-4A	74	15" R.C.P.	0.4%	SD-4	SD-4A
SP-4B	56	15" R.C.P.	0.4%	SD-4	SD-4B
SP-5	63	18" R.C.P.	0.4%	SD-4	SD-5
SP-6	60	15" R.C.P.	0.4%	SD-5	SD-6

SP-7	214	24" R.C.P.	0.3%	MES-2	SD-7
SP-8	48	24" R.C.P.	0.3%	SD-7	SD-8
SP-8A	74	15" R.C.P.	0.3%	SD-8	SD-8A
SP-9	103	24" R.C.P.	0.3%	SD-8	SD-9
SP-10	77	18" R.C.P.	0.3%	SD-9	SD-10
SP-11	154	18" R.C.P.	0.3%	SD-10	SD-11
SP-12	74	24" R.C.P.	0.3%	SD-11	SD-12

SP-13	68	18" R.C.P.	1.0%	MES-3	SD-13
SP-14	140	15" R.C.P.	1.0%	SD-13	SD-14
SP-15	280	15" R.C.P.	1.0%	SD-13	SD-15

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



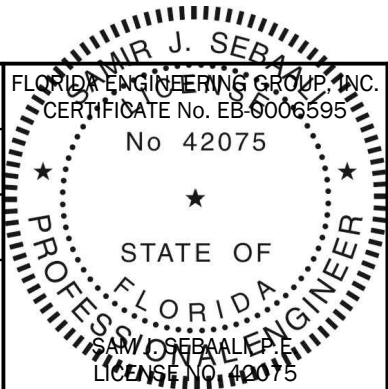
5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325

www.feg-inc.us

SITE PAVING, GRADING, AND  
DRAINAGE NOTES

DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

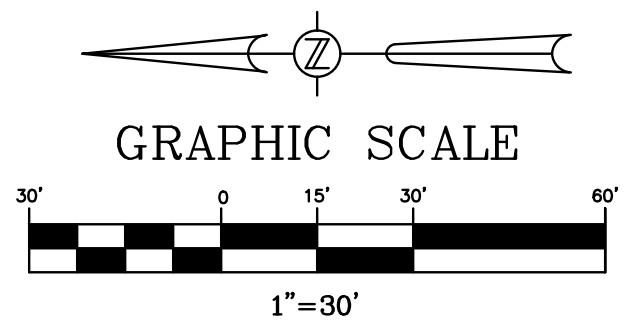
PROJECT NO. 20-145
SCALE NOTED
DATE JANUARY, 2021
SHEET NO. C-6B
SHEET 14 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS,  
HAS BEEN ELECTRONICALLY SIGNED AND  
SEALED BY SAM J. SEBALL, P.E. ON JANUARY  
XX, 2021 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.





INSET A  
SCALE: 1"=10'

- ### # WATER UTILITY KEYNOTES
- W1. CONNECT TO EXISTING 6" WATER MAIN.
  - W2A. 8" PVC C-900 DR-18 WATER MAIN, SEE PLAN FOR LENGTH.
  - W2B. 4" PVC CLASS 200 SDR 21, WATER SERVICE LINE, SEE PLAN FOR LENGTH.
  - W2C. 4" PVC C-900 DR-14 FIRE LINE, SEE PLAN FOR LENGTH.
  - W3. DOMESTIC WATER METER TO BE INSTALLED BY CITY OF NEW SMYRNA BEACH. DEVELOPER'S CONTRACTOR IS RESPONSIBLE FOR BACKFLOW PREVENTER & SERVICE LINE FROM BACKFLOW PREVENTER TO BUILDING. SEE PLAN FOR SIZE.
  - W4. DOMESTIC WATER REDUCED PRESSURE ZONE BACKFLOW PREVENTER, SEE PLAN FOR SIZE.
  - W5. GATE VALVE, SEE PLAN FOR SIZE.
  - W6. TEE, TYPICAL, SEE PLAN FOR SIZE.
  - W7. BEND W/ RESTRAINED JOINTS, SEE PLAN FOR ANGLE, TYPICAL.
  - W8A. REDUCER, SEE PLAN SIZE.
  - W8B. INCREASER, SEE PLAN SIZE.
  - W9. DOUBLE DETECTOR CHECK VALVE ASSEMBLY BACKFLOW PREVENTER/ P.O.S. THE DDOVA SHALL BE MONITORED IN ACCORDANCE W/ N.F.P.A. 72, SEE PLAN FOR SIZE.
  - W10. FIRE HYDRANT ASSEMBLY, TYPICAL.
  - W11. FIRE DEPARTMENT CONNECTION WITH CHECK VALVE, (BY OTHERS).
- ### # SANITARY SEWER UTILITY KEYNOTES
- S1. CONNECT TO EXISTING MANHOLE.
  - S2. SANITARY SEWER MANHOLE.
  - S3. SANITARY SEWER CLEAN-OUT. TOP TO MATCH NEW GRADE. SEE PLAN FOR INVERT ELEVATION. PROVIDE TRAFFIC BEARING BRASS RING AND PLUG CONSISTENT WITH UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH REQUIREMENTS WHERE CLEAN-OUT IS IN PAVED OR WALK AREAS. CLEAN-OUT TOP TO BE FLUSH WITH FINISH WALK AREAS. REFER TO SHEET C-9B FOR DETAIL.
  - S4. 6" PVC ASTM D3034 SDR 35 SANITARY SEWER LATERAL GREEN IN COLOR SEE PLAN FOR LENGTH AND SLOPE.
  - S5. 8" PVC ASTM D3034 SDR 35 SANITARY SEWER LATERAL GREEN IN COLOR SEE PLAN FOR LENGTH AND SLOPE.

- ### UTILITY NOTES:
- POTABLE & SANITARY SERVICE CONNECTIONS TO ALL THE BUILDINGS ARE TO BE COORDINATED WITH FINAL SITE ENGINEERING AND ARCHITECTURAL DRAWINGS.
- ALL PLUMBING WORK SHALL EXTENDED TO 5FT. OUTSIDE OF THE BUILDING AND IS TO BE COORDINATED BETWEEN SITE AND BUILDING/ PLUMBING CONTRACTOR AS TO SIZE, LOCATION AND DEPTH.

DATE	REVISIONS	BY	CHECKED

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA

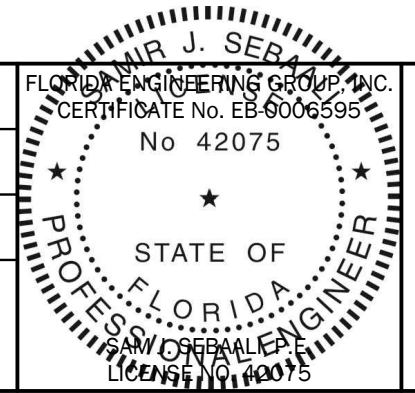
**FEG** FLORIDA ENGINEERING GROUP  
Engineering the Future

5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

SITE UTILITY PLAN

DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

PROJECT NO. 20-145
SCALE 1"=30'
DATE JANUARY, 2021
SHEET NO. C-7A
SHEET 15 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS, HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SAM J. SEBALL, P.E. ON JANUARY 19, 2021 USING A DIGITAL SIGNATURE.

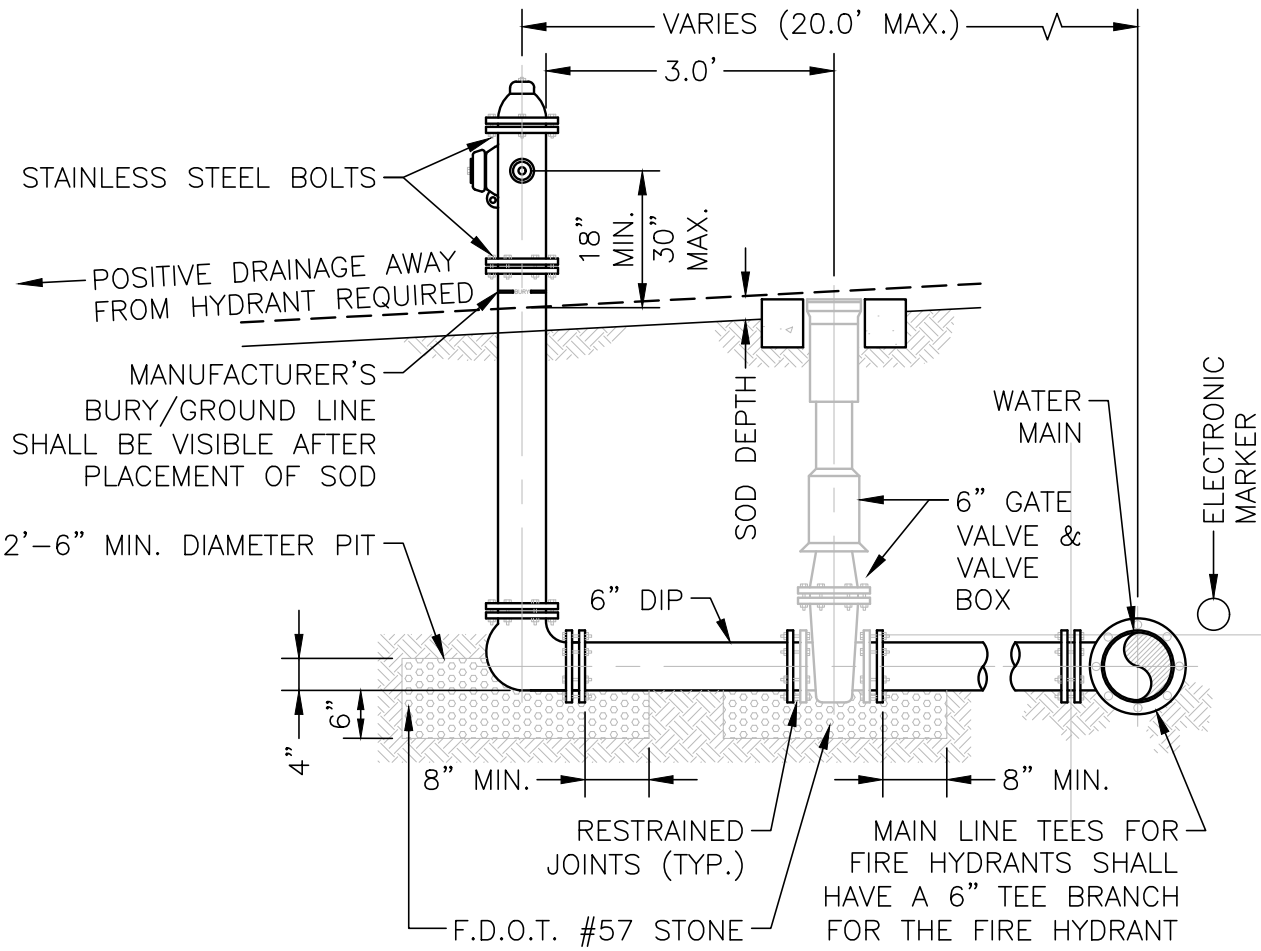
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



[illegible]

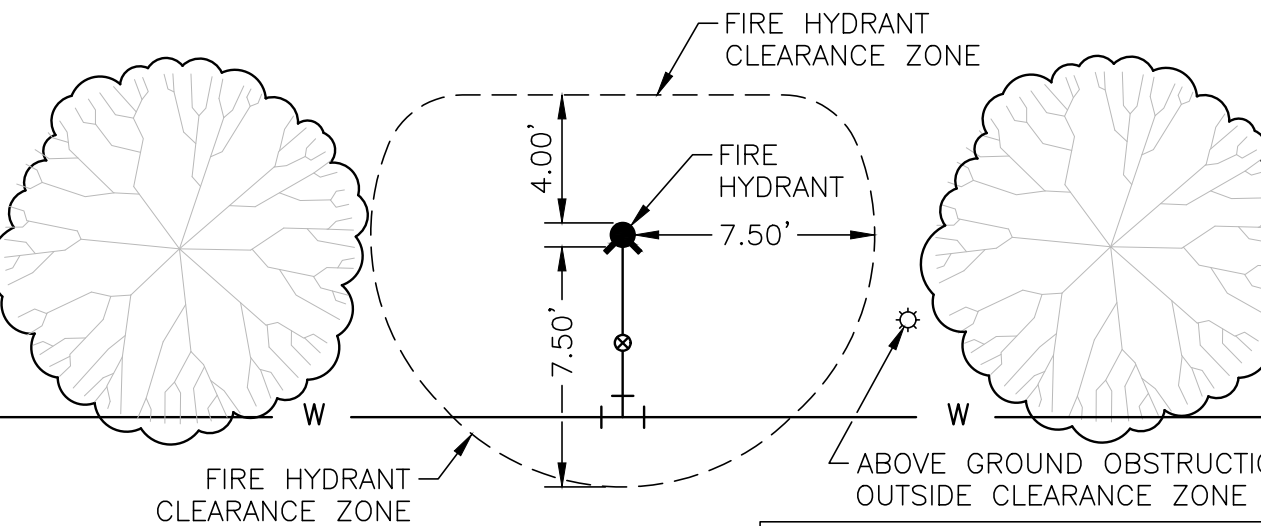




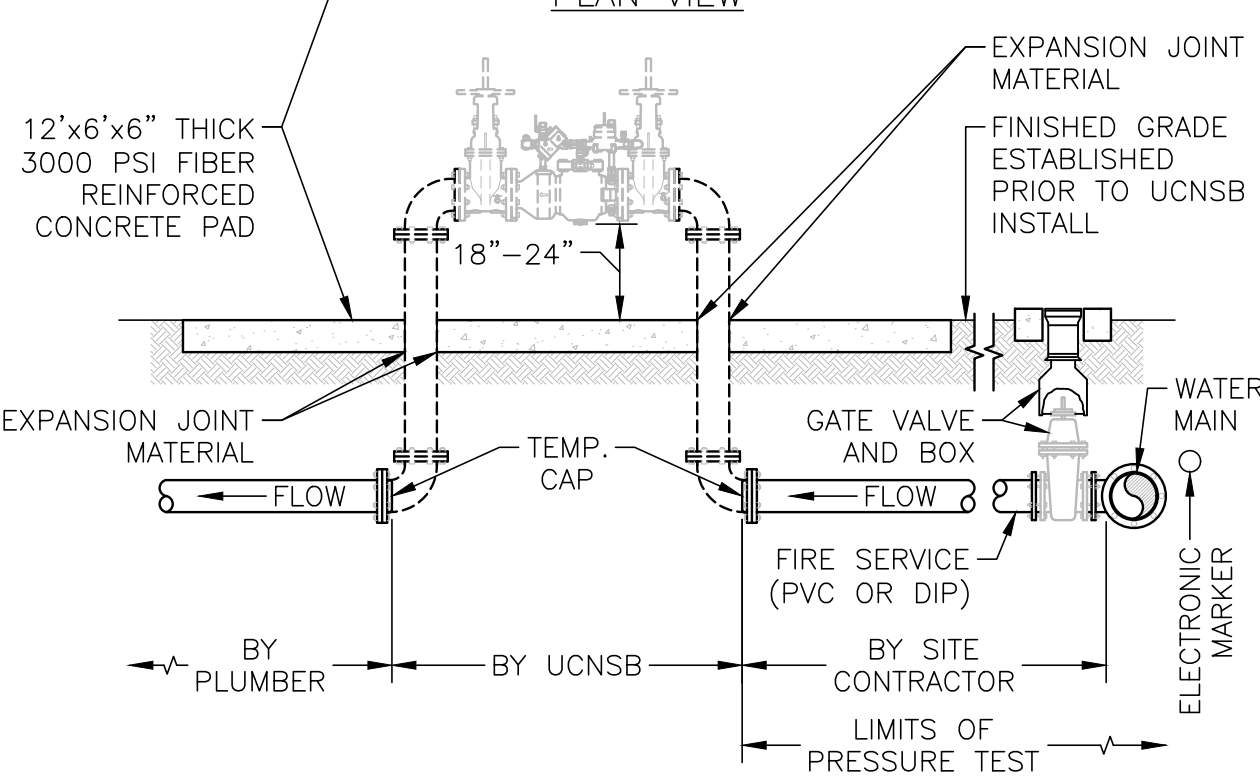
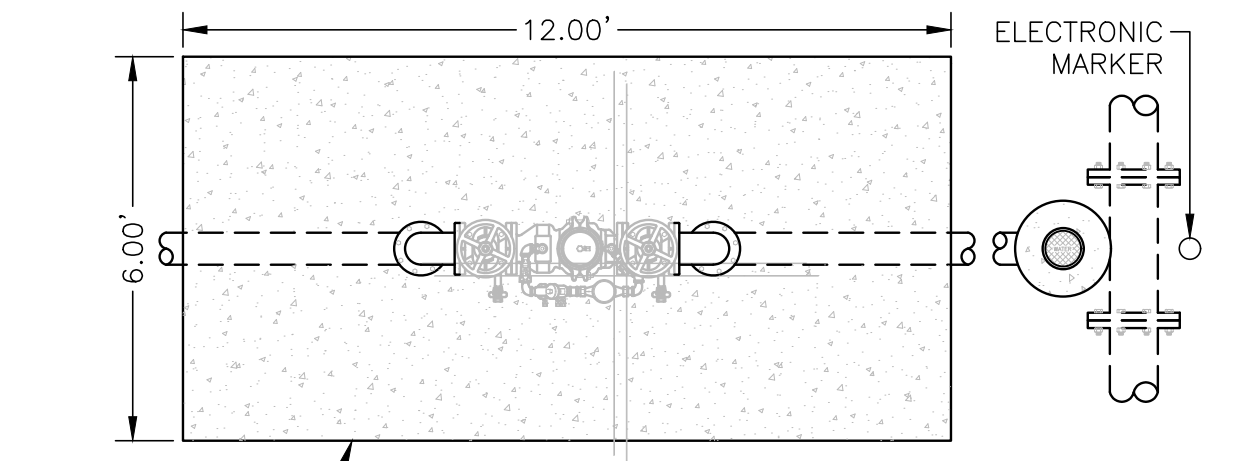


NOTES:  
1. HYDRANT MUST BE LOCATED ON THE SAME SIDE OF THE ROAD OR PARKING LOT AS THE WATER MAIN, OUTSIDE THE CLEAR RECOVERY ZONE OF THE TRAVEL WAY, AND A MINIMUM OF 2' FROM SIDEWALK EDGE.  
2. HYDRANT MUST HAVE A CLOSED WEEP HOLE.

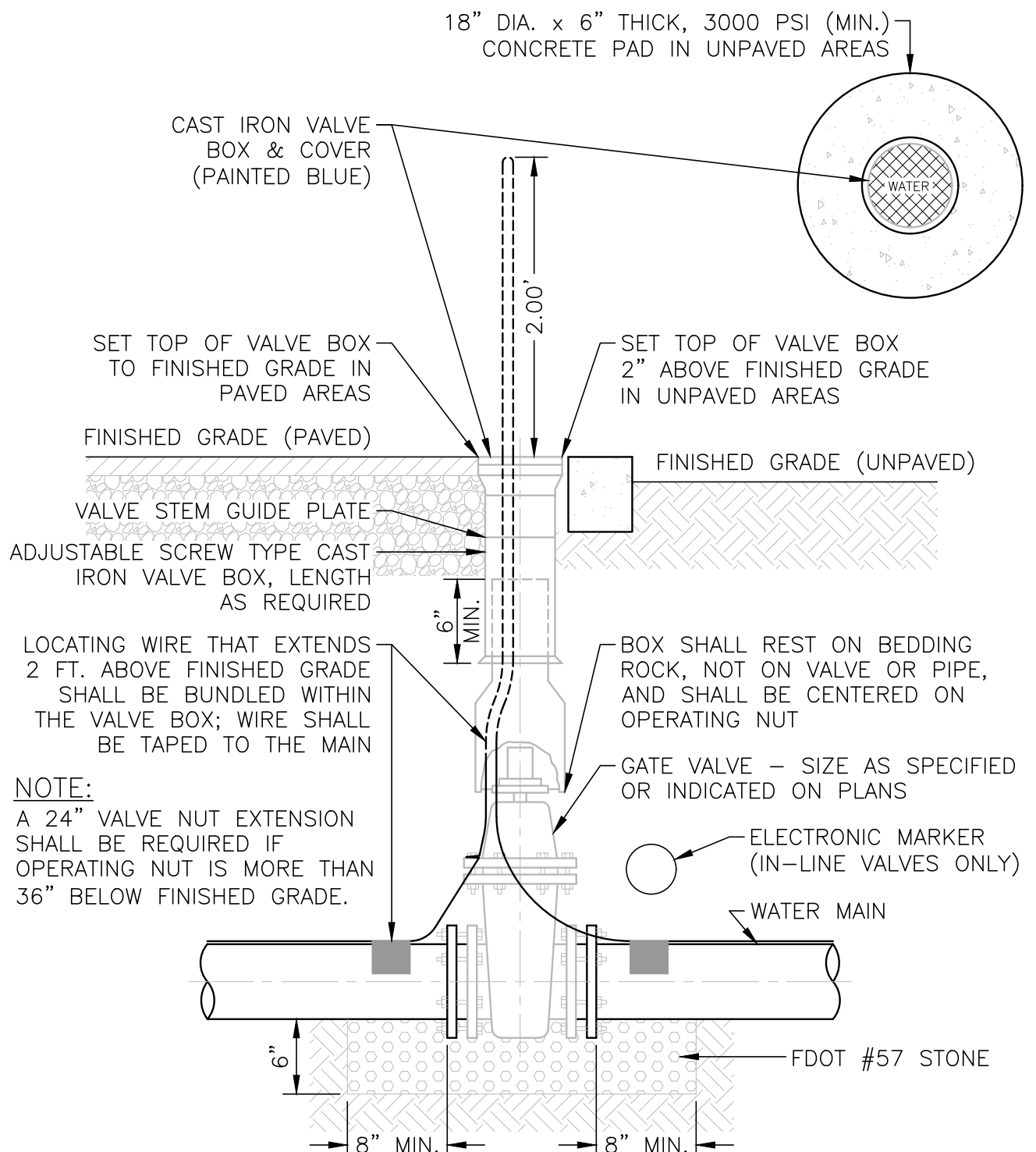
FIRE HYDRANT ASSEMBLY  
NTS UCSB 6/15



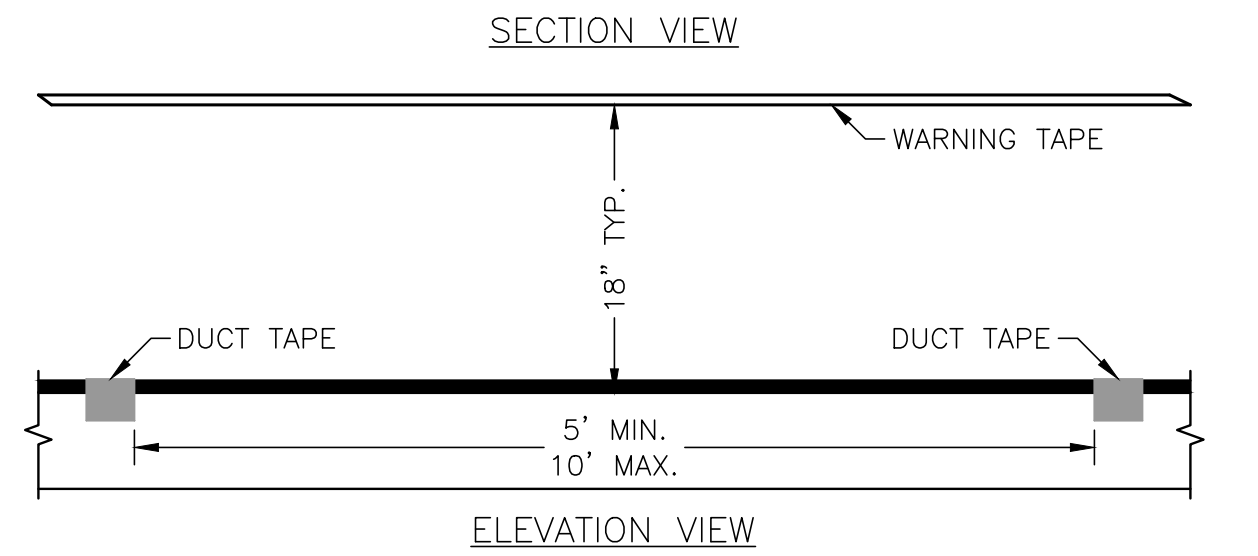
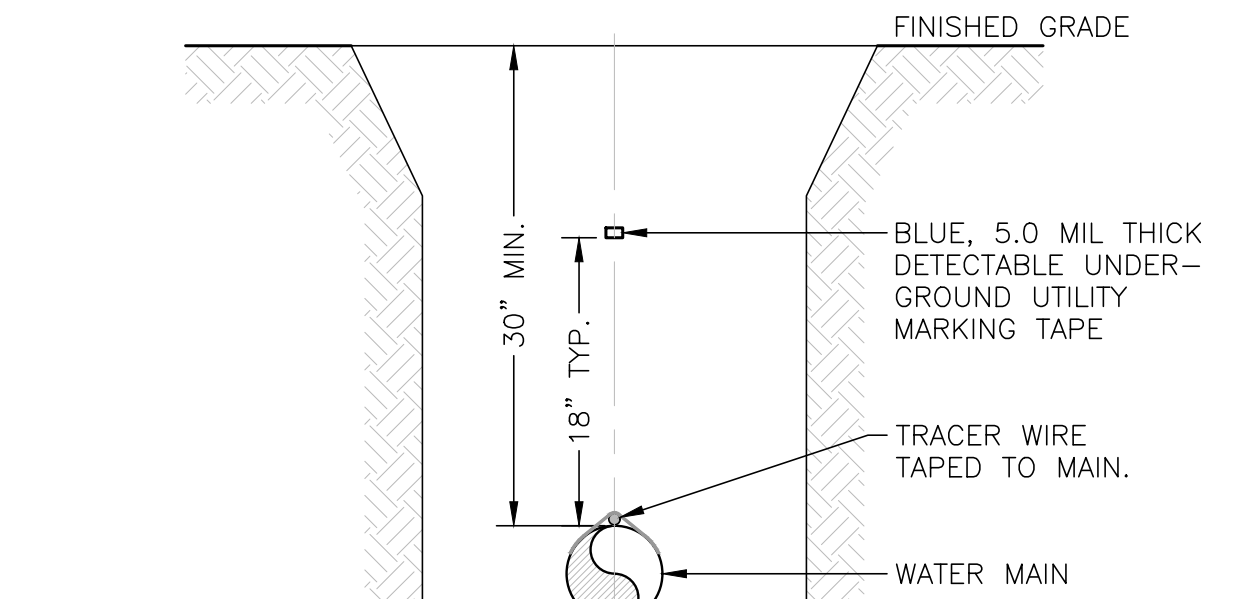
FIRE HYDRANT CLEARANCE ZONE  
NTS UCSB 6/15



FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY  
NTS UCSB 6/15

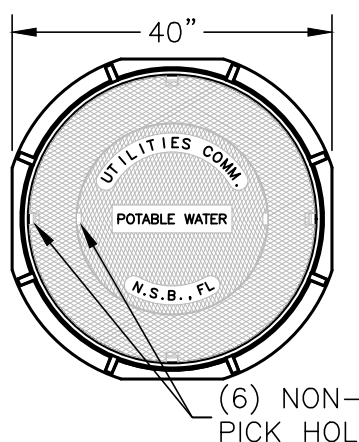


GATE VALVE  
NTS UCSB 6/15



NOTES:  
1. ALL PIPE SHALL REQUIRE #14 GAUGE (AWG) HIGH-STRENGTH COPPER CLAD STEEL CONDUCTOR (HS-CCS) TRACER WIRE COATED WITH A 30 MIL THICK, HIGH DENSITY POLYETHYLENE (HDPE) INSULATION, AND RATED FOR DIRECT BURIAL USE AT 30 VOLTS LOCATED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND TAPED TO THE PIPE AT 5 FT. TO 10 FT. INTERVALS.  
2. AT RESTRAINED JOINTS, WRAP TRACER WIRE AROUND ONE LUG.

PIPE LOCATING WIRE AND TAPE  
NTS UCSB 6/15

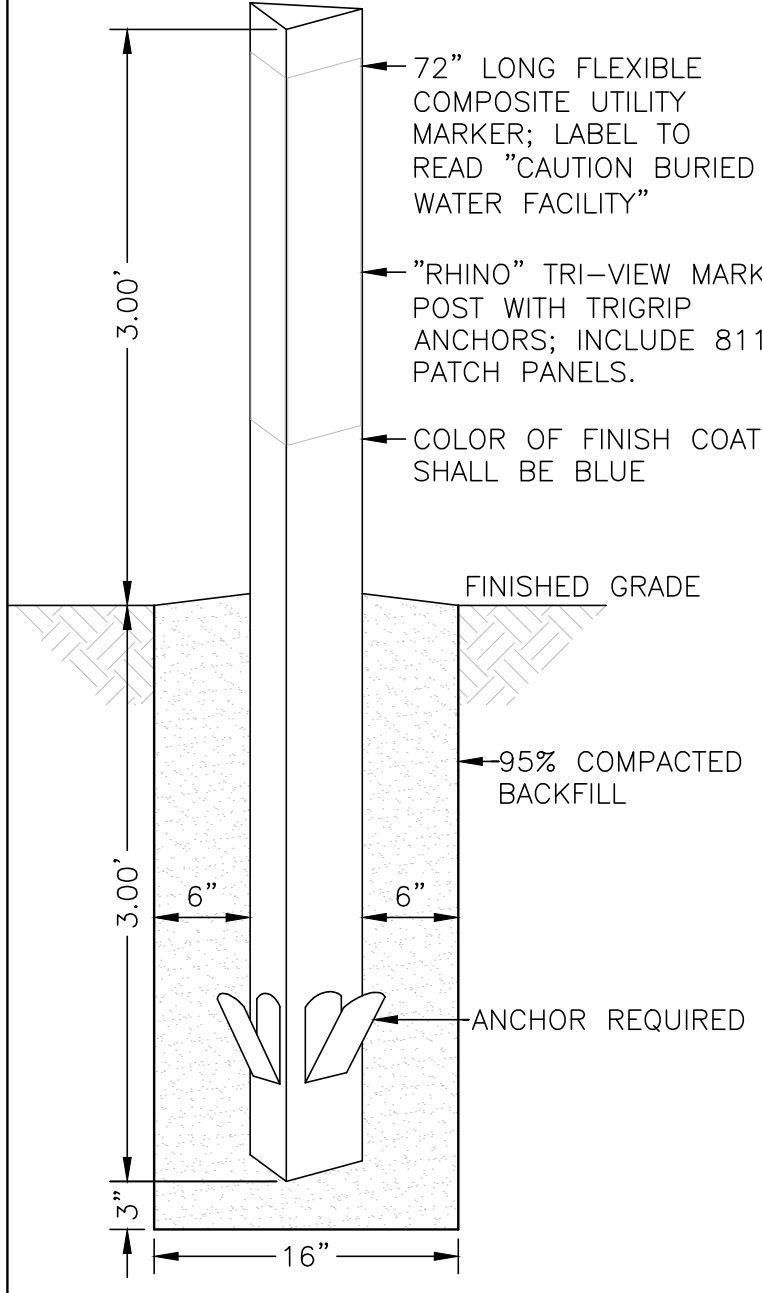


COVER WT: 145 LB  
U.S. FOUNDRY CE INNER COVER

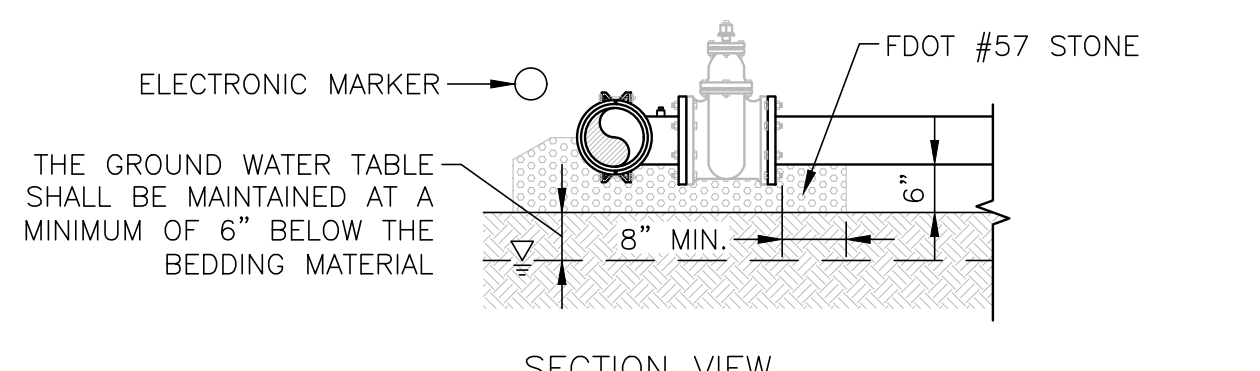
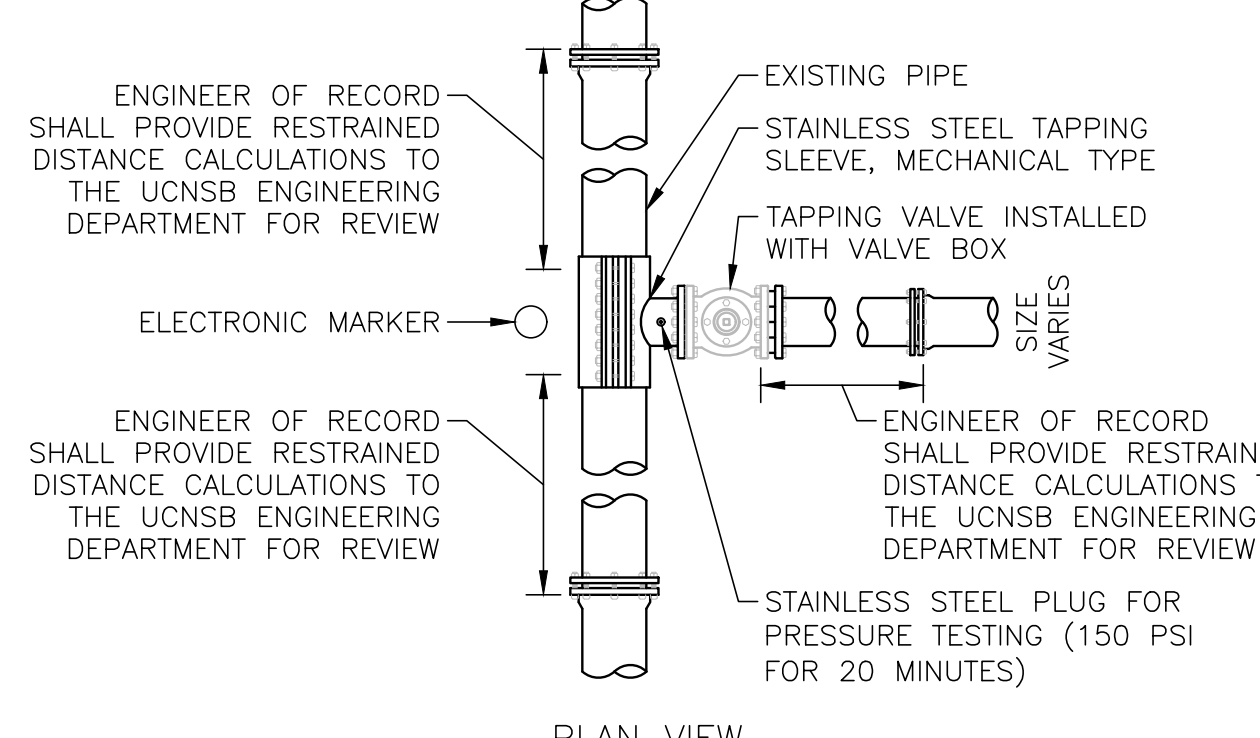
COVER WT: 220 LB  
U.S. FOUNDRY CR OUTER COVER

RING WT: 220 LB  
U.S. FOUNDRY 667 RING

VAULT STRUCTURE RING AND COVER  
NTS UCSB 6/15



VALVE MARKER  
NTS UCSB 6/15



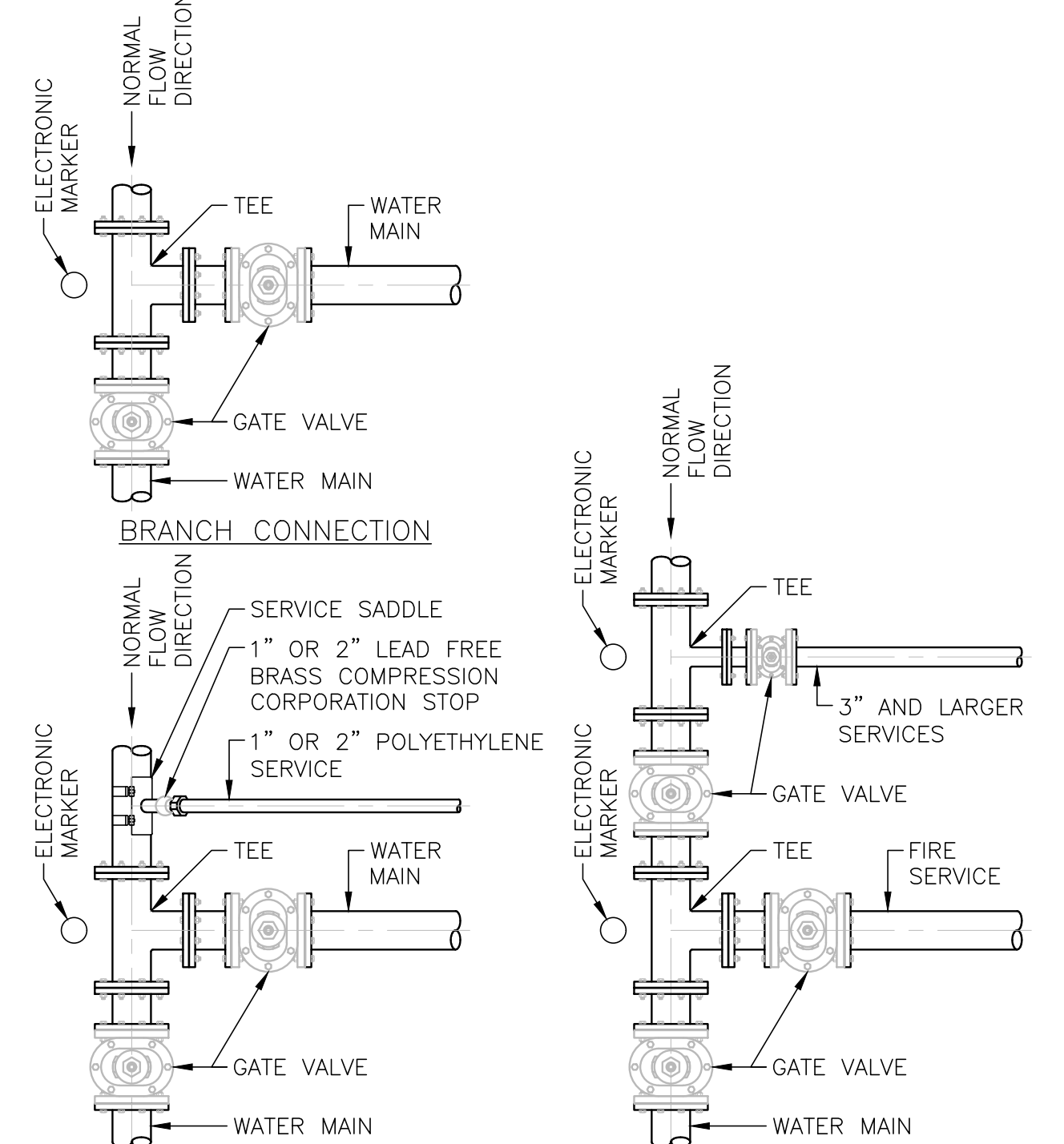
NOTES:  
1. FULL LENGTH TAPPING SLEEVE REQUIRED.  
2. STAINLESS STEEL TAPPING SLEEVES ARE REQUIRED FOR ALL TYPES OF PIPE MATERIALS.  
3. INSTALLATION REQUIRES RESTRAINED JOINTS. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED.  
4. REVERSE SIDE AND VERTICAL TAPPING REQUIRES UCSB ENGINEERING DEPARTMENT APPROVAL.

TAPPING SLEEVE AND VALVE  
NTS UCSB 6/15

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING	JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER, REGULATED UNDER FAC 62-610 PART III	3 FT MINIMUM	WATER MAIN 12 INCHES IS THE MINIMUM EXCEPT FOR STORM SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED	ALTERNATE 3 FT MINIMUM
VACUUM SANITARY SEWER	10 FT PREFERRED 3 FT MINIMUM	WATER MAIN 6 INCHES IS THE MINIMUM; 12 INCHES IS PREFERRED	ALTERNATE MINIMUM
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER NOT REGULATED UNDER FAC 62-610 PART III	10 FT PREFERRED 6 FT MINIMUM	WATER MAIN 12 INCHES IS THE MINIMUM EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED	ALTERNATE 6 FT MINIMUM

NOTES:  
1. LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH FAC RULE 62-555.314.  
2. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.  
3. IN ADDITION TO FAC RULE 62-555.314, THE UCSB REQUIRES THAT ALL OTHER UTILITY SEPARATIONS SHALL BE 1 FOOT VERTICALLY ON CROSSINGS AND 3 FEET PARALLEL.

UTILITY SEPARATION  
NTS UCSB 6/15



VALVE LAYOUT AT TEES AND SERVICES  
NTS UCSB 6/15

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



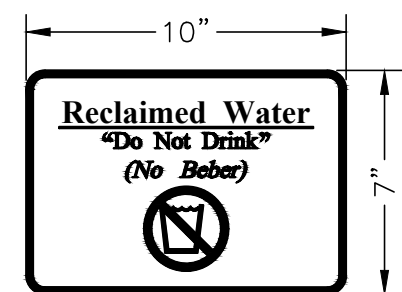
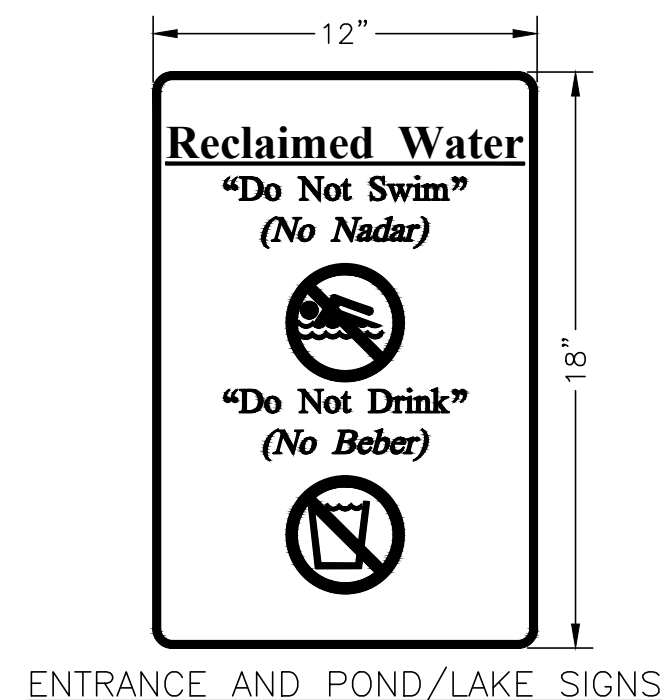
5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

CITY DETAILS (1 OF 3)

PROJECT NO.	20-145
SCALE	NOTED
DATE	JANUARY, 2021
SHEET NO.	C-9A
SHEET 18	OF 25

FLORIDA ENGINEERING GROUP, INC.  
CERTIFICATE No. EB-0006595





NOTES:

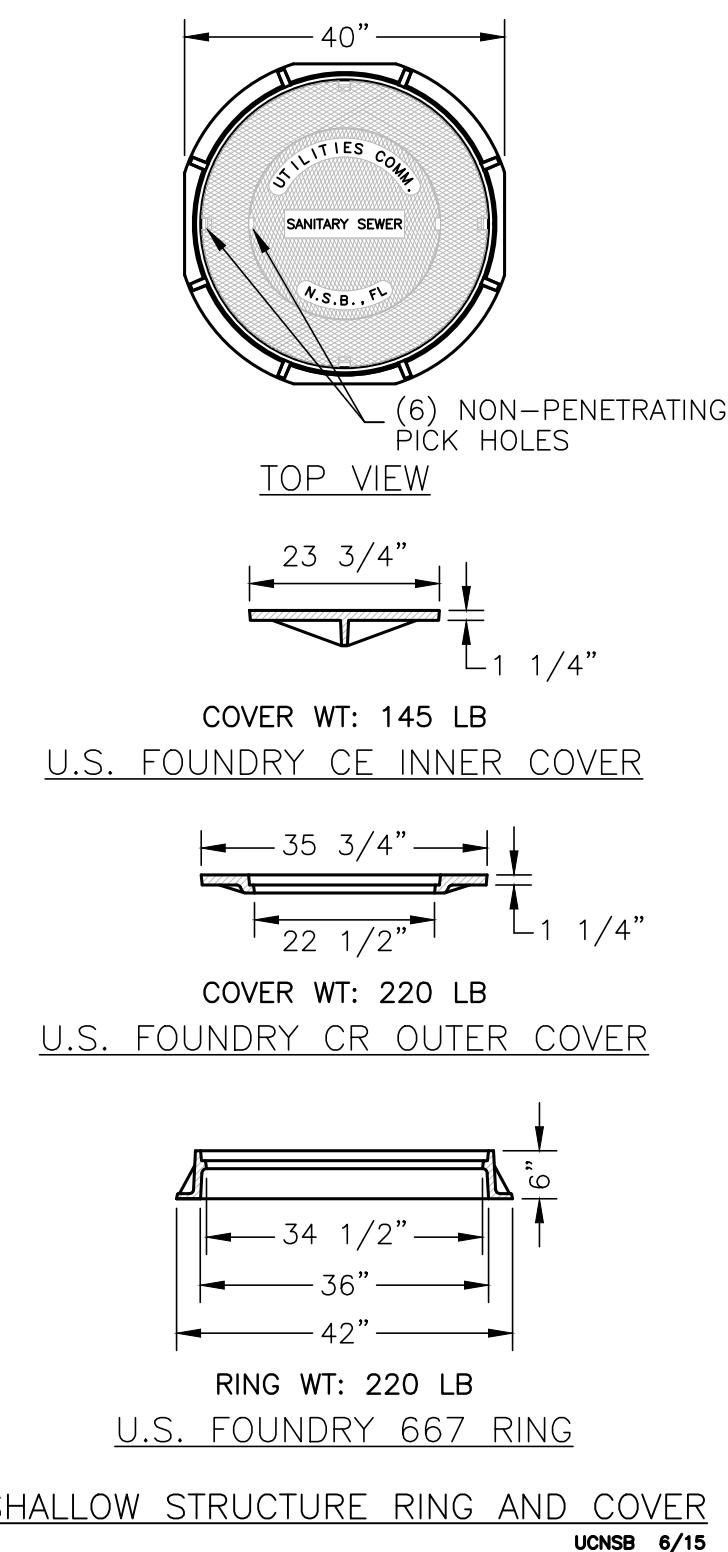
1. AREAS IRRIGATED BY RECLAIMED WATER, SUCH AS RESIDENTIAL NEIGHBORHOODS AND GOLF COURSES, SHALL HAVE ADVISORY SIGNS POSTED AT THE ENTRANCES ALERTING THE PUBLIC. ADDITIONAL SIGNS SHALL BE POSTED AT THE FIRST AND TENTH TEES OF GOLF COURSES. SIGNS SHALL INCLUDE THE TEXT "DO NOT DRINK" IN BOTH ENGLISH AND SPANISH TOGETHER WITH THE EQUIVALENT STANDARD INTERNATIONAL SYMBOL.
2. ADVISORY SIGNS SHALL BE POSTED ADJACENT TO LAKES OR PONDS USED TO STORE RECLAIMED WATER AND DECORATIVE WATER FEATURES THAT USE RECLAIMED WATER. SIGNS SHALL INCLUDE THE TEXT "DO NOT DRINK" AND "DO NOT SWIM" IN BOTH ENGLISH AND SPANISH TOGETHER WITH THE EQUIVALENT STANDARD INTERNATIONAL SYMBOL.
3. ALL SIGNAGE SHALL FOLLOW REQUIREMENTS OF FAC 62-610.468.

RECLAIMED WATER ADVISORY SIGNS

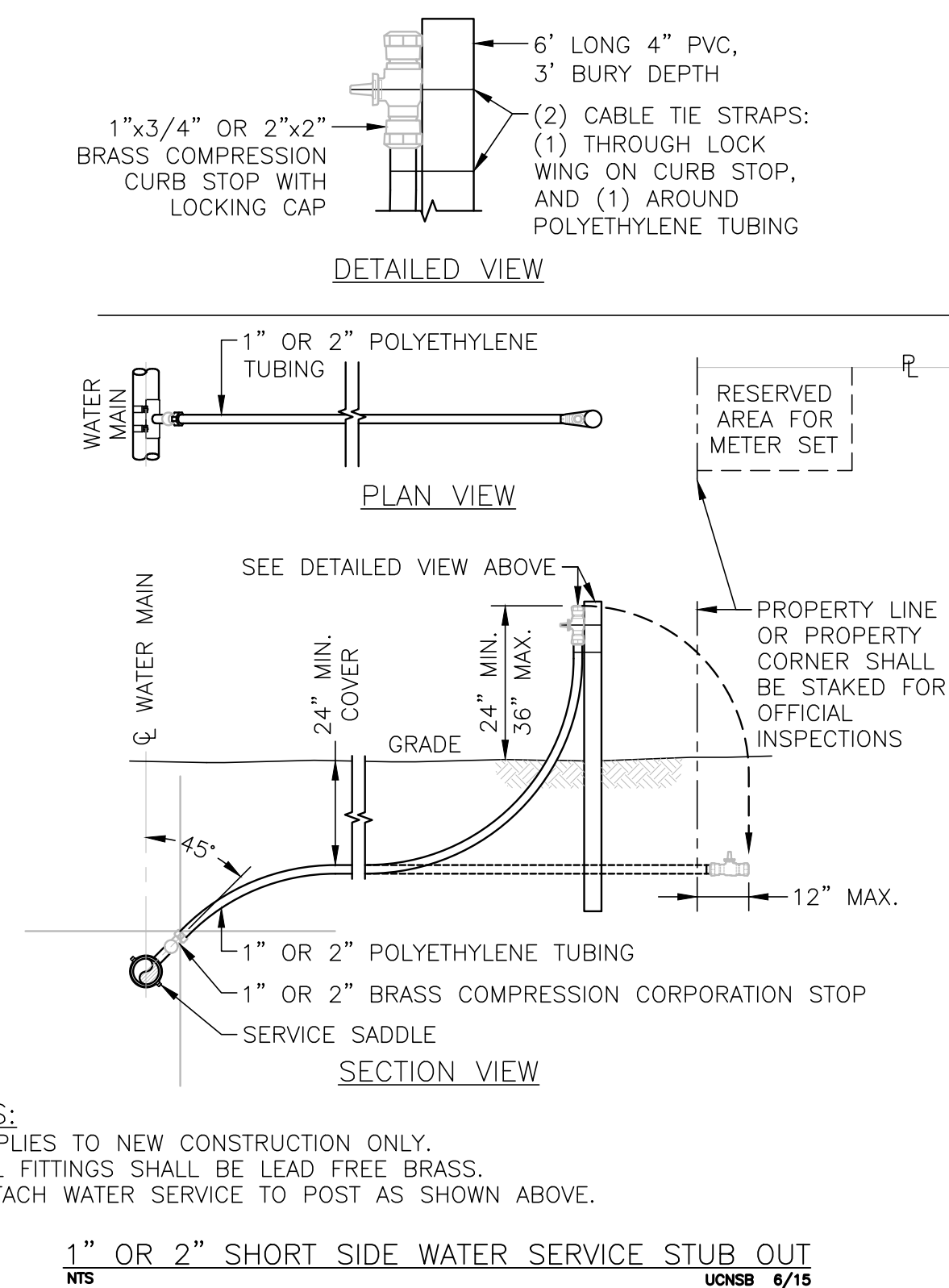
NTS

UCNSB 6/15

UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



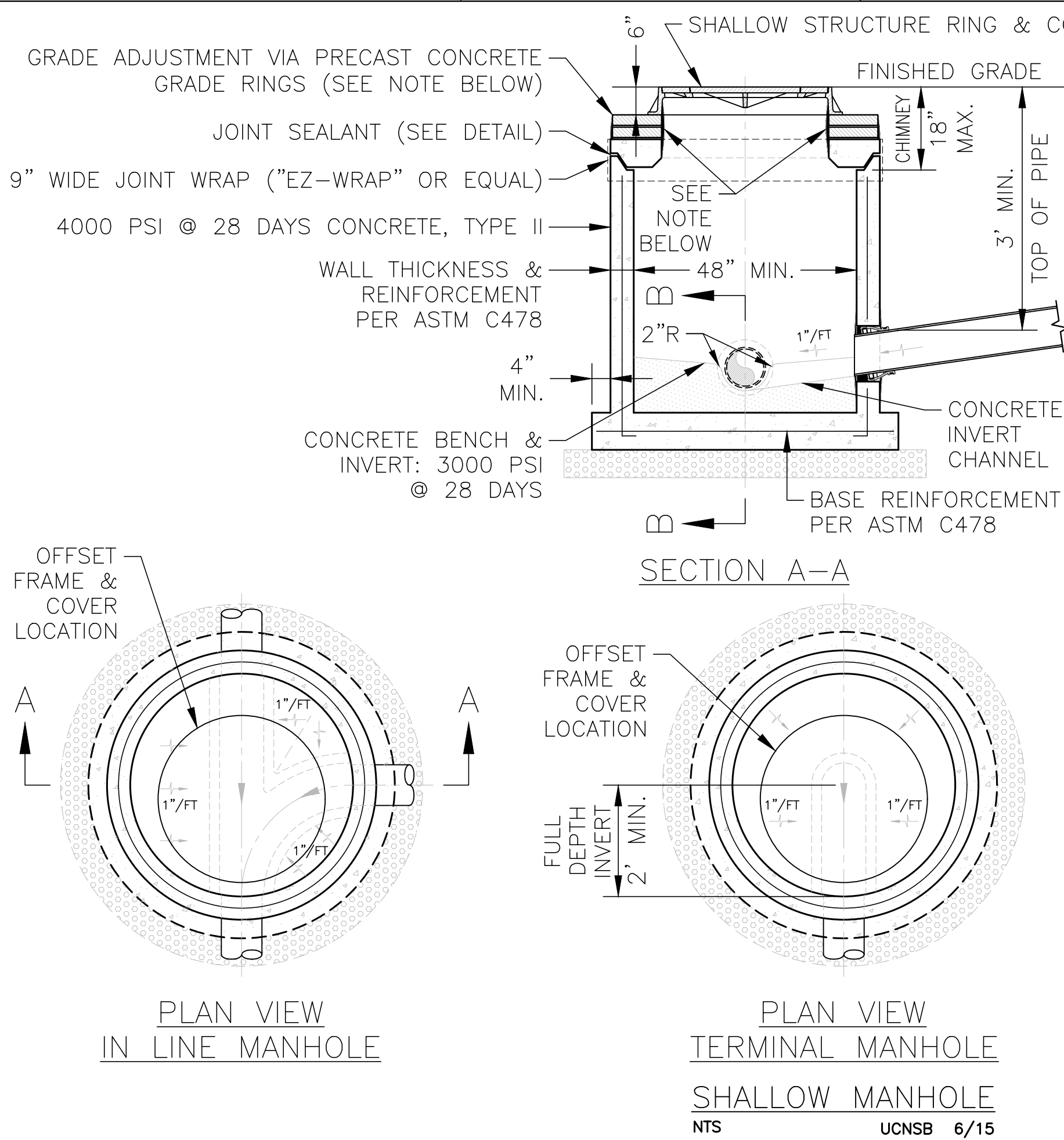
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



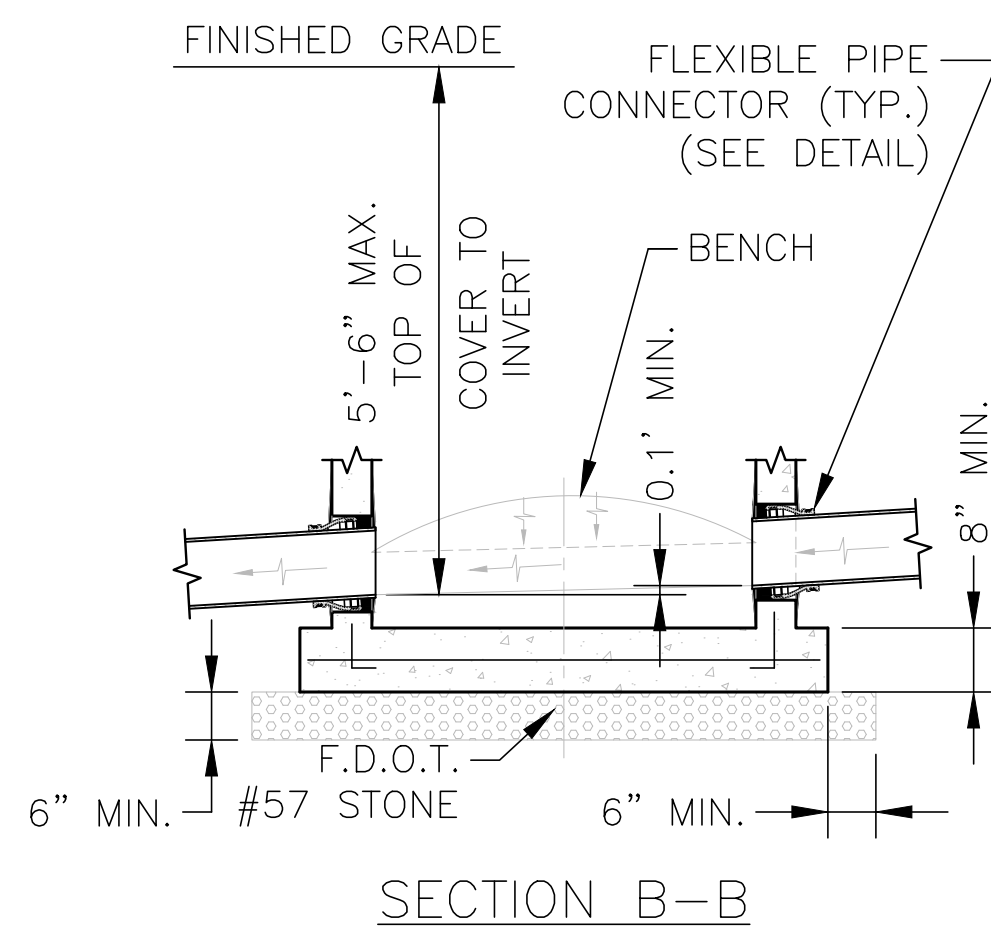
NOTES:

1. APPLIES TO NEW CONSTRUCTION ONLY.
2. ALL FITTINGS SHALL BE LEAD FREE BRASS.
3. ATTACH WATER SERVICE TO POST AS SHOWN ABOVE

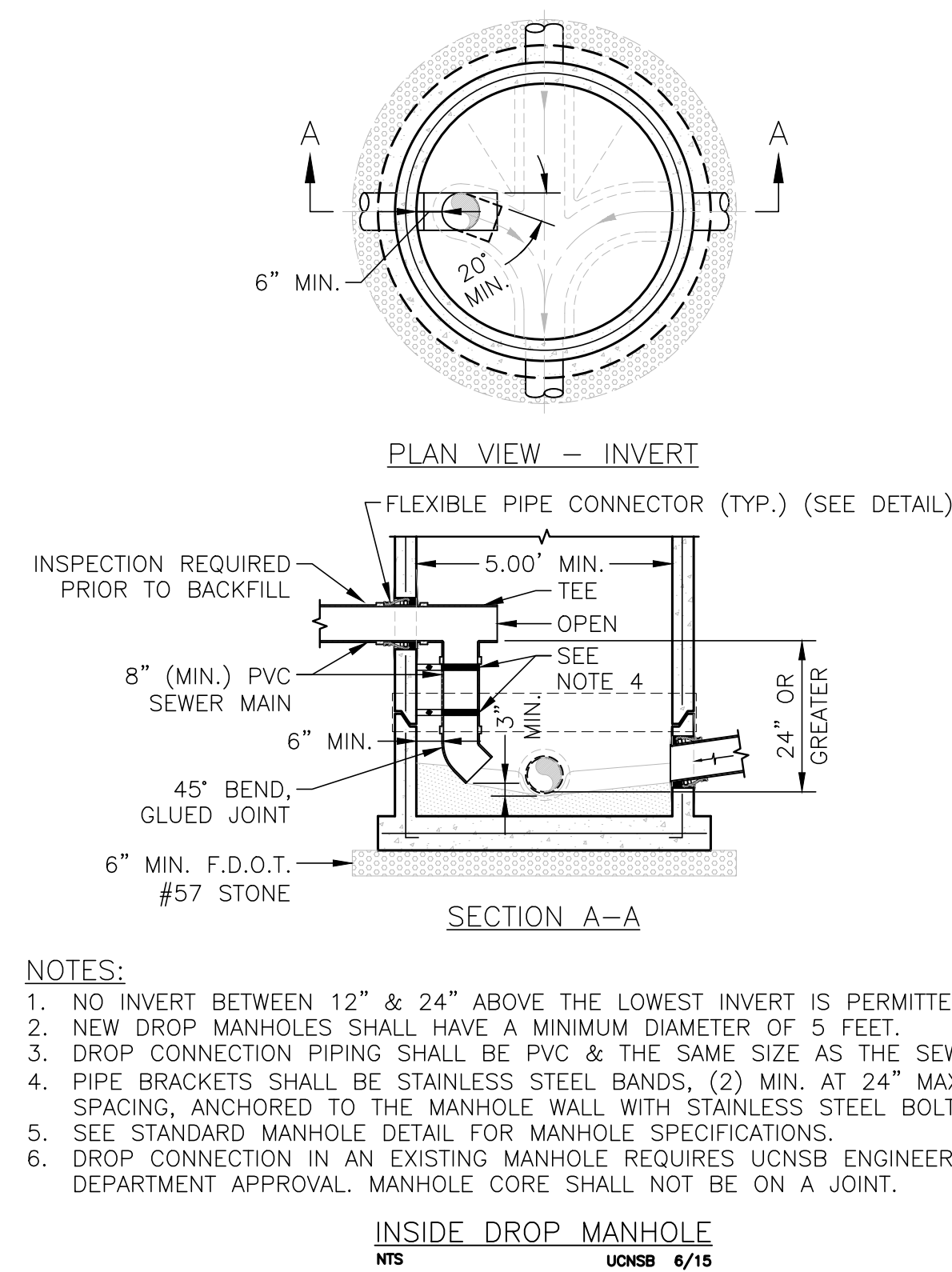
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



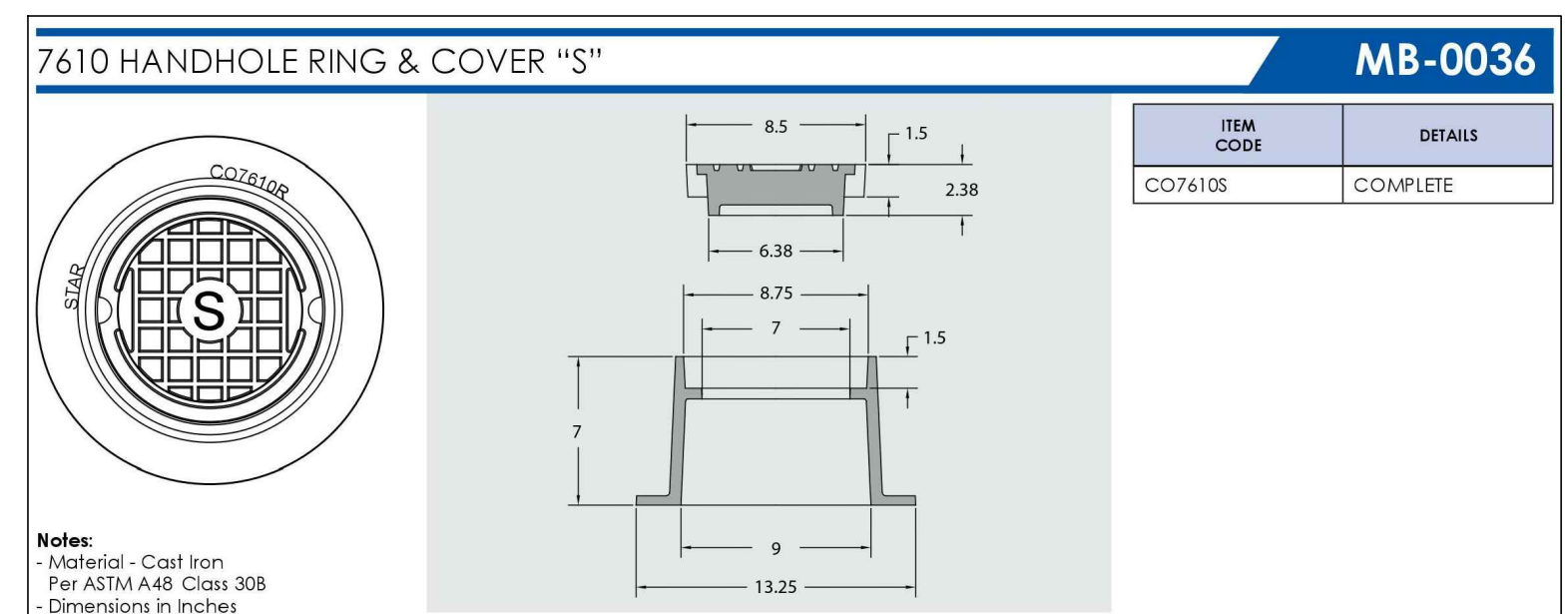
NTS UCNSB 6/15



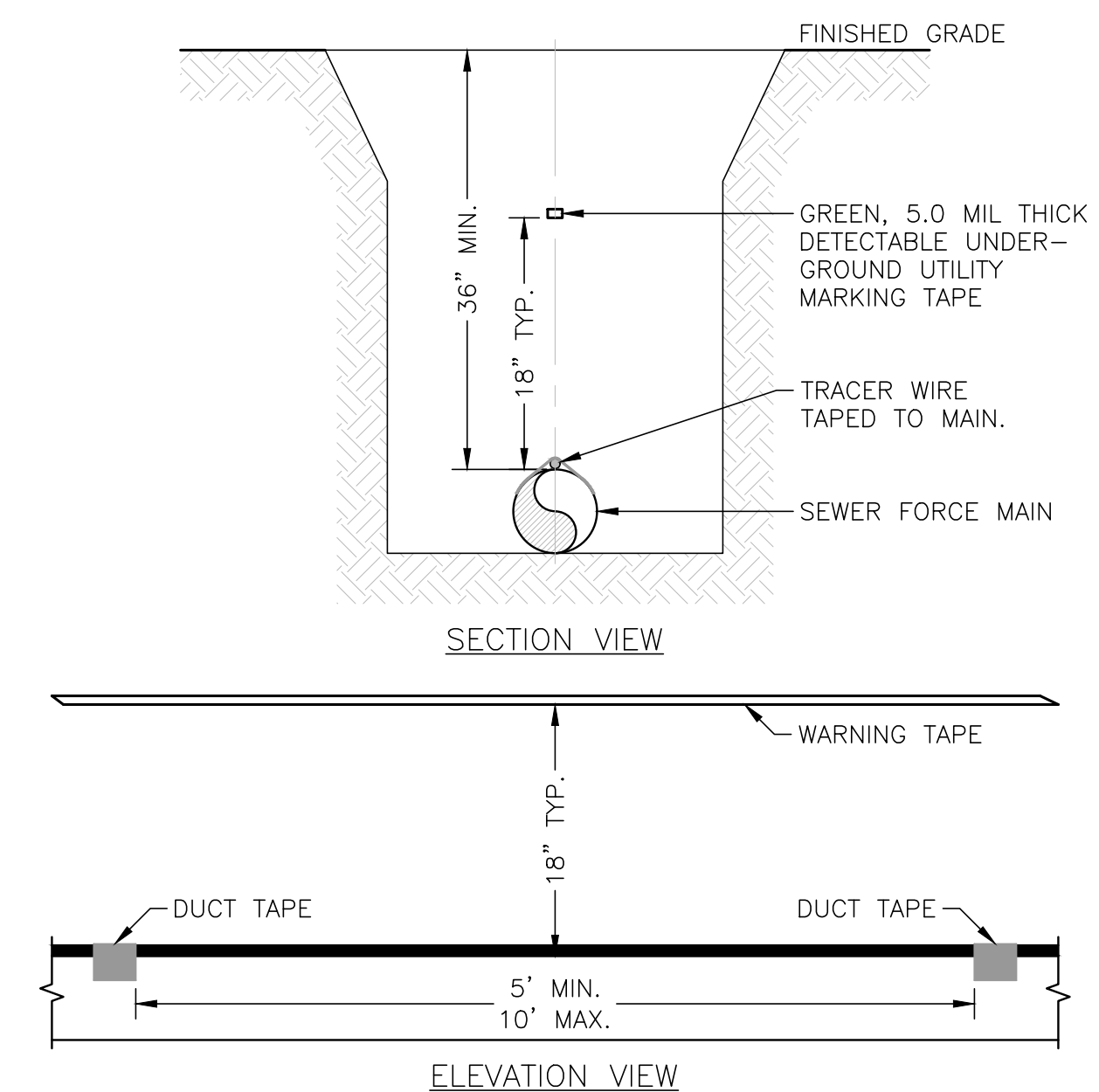
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

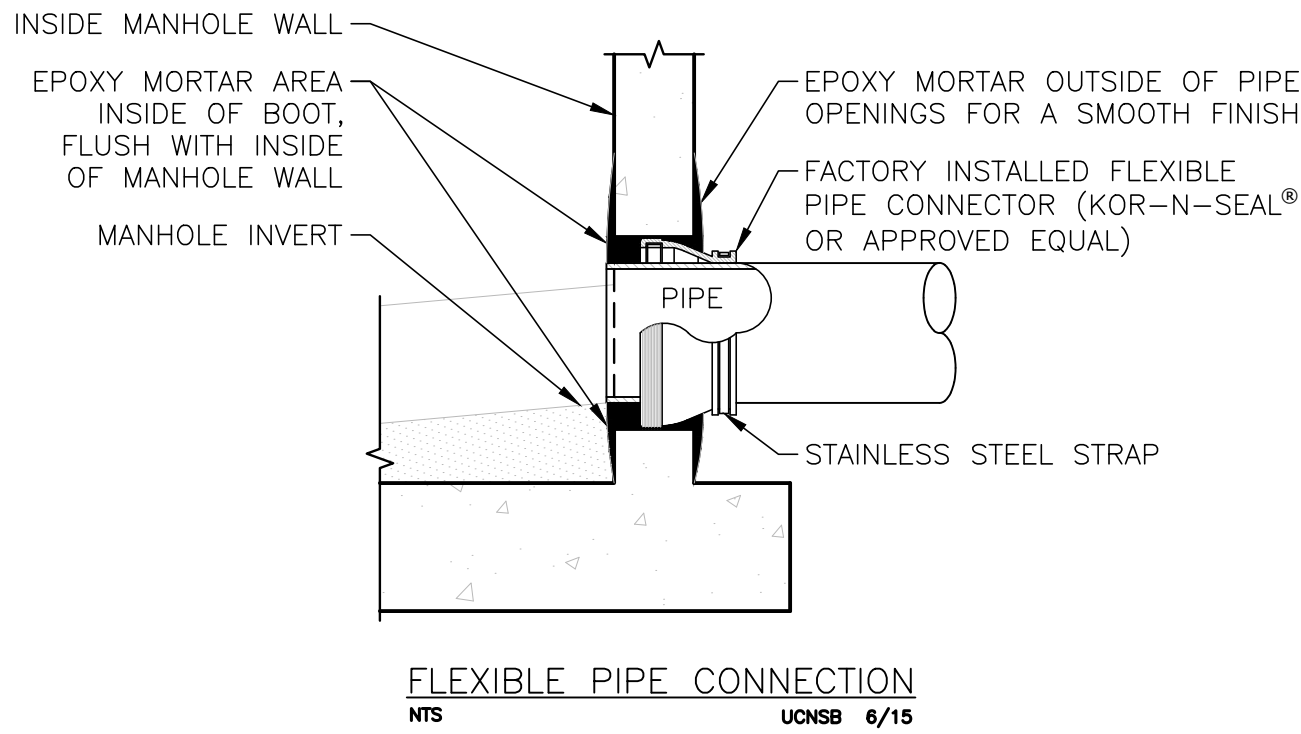


SANITARY SEWER CLEAN-OUT MANUFACTURER DETAIL  
REGISTERED TRADEMARK OF STAR PIPE PRODUCTS



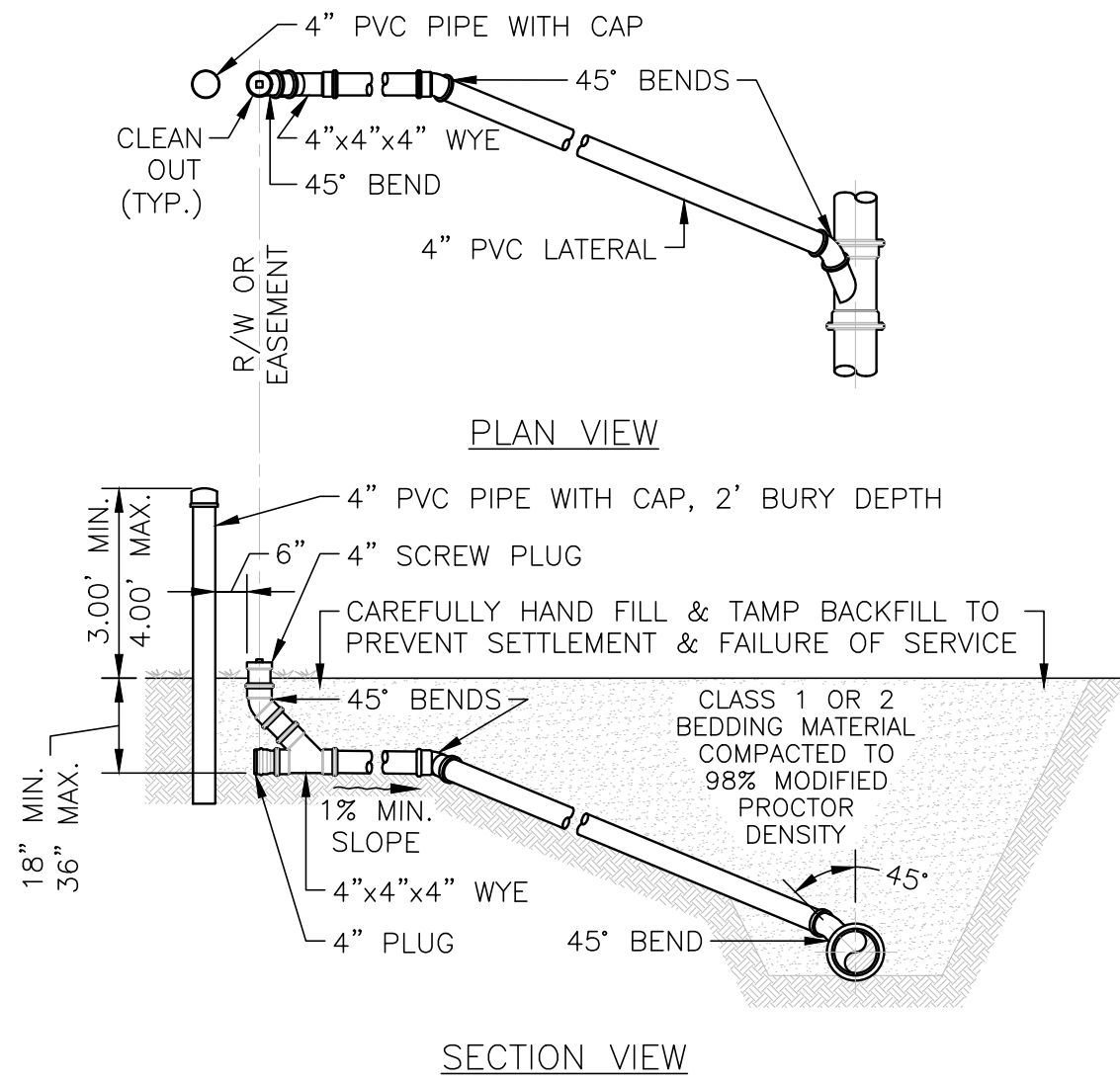
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL

PROJECT NO.	20-145	FLORIDA ENGINEERING GROUP, INC. CERTIFICATE No. EB-0006595
SCALE	NOTED	
DATE	JANUARY, 2021	
SHEET NO.	C-9B	
SHEET 19	of 25	



FLEXIBLE PIPE CONNECTION  
NTS UCNSB 6/15

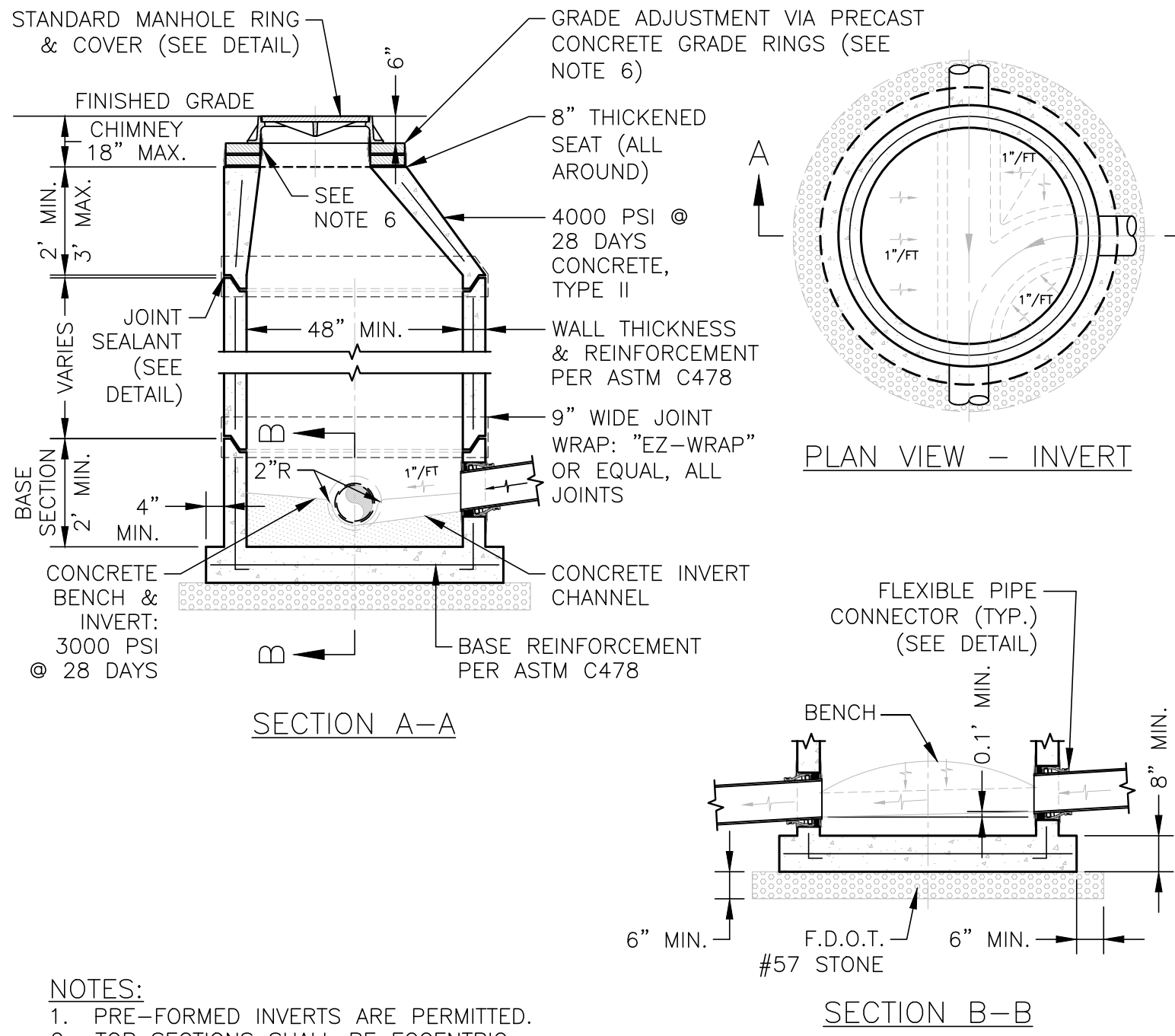
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



NOTE:  
DOUBLE SEWER LATERALS ARE NOT PERMITTED.

SEWER LATERAL  
NTS UCNSB 6/15

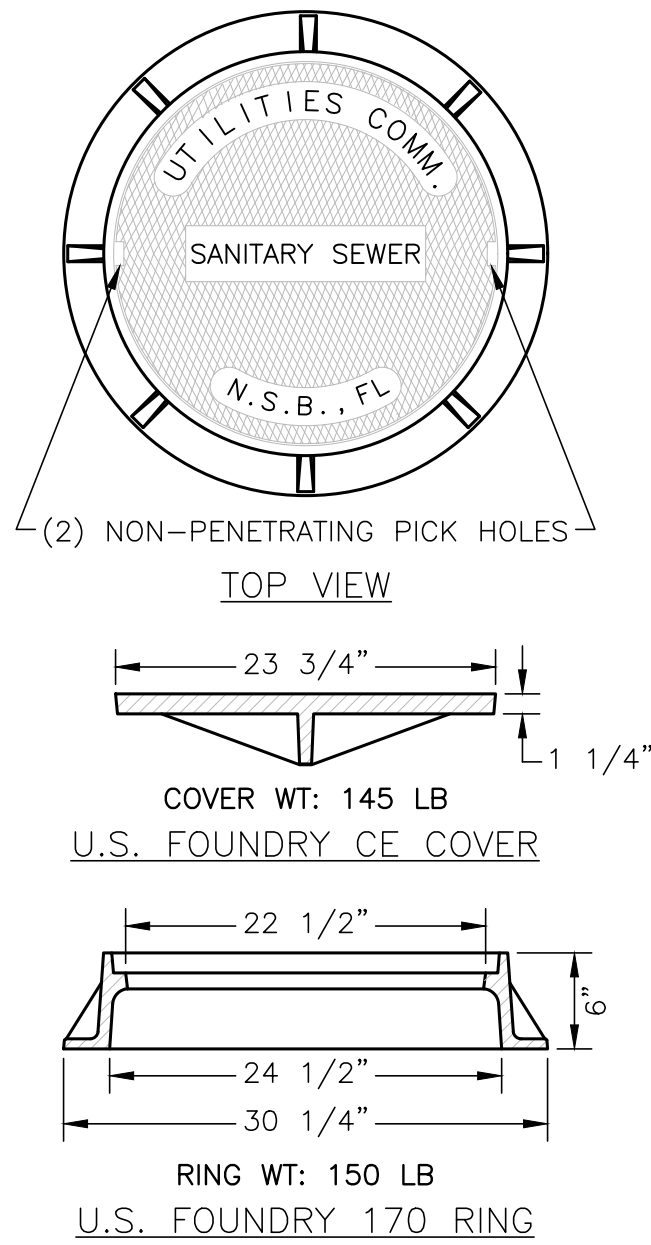
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



NOTES:  
1. PRE-FORMED INVERTS ARE PERMITTED.  
2. TOP SECTIONS SHALL BE ECCENTRIC.  
3. STRUCTURES SHALL BE INSTALLED LEVEL IN ALL DIRECTIONS.  
4. MANHOLE STRUCTURES SHALL BE COATED WITH COAL TAR EPOXY: 1 COAT OR 8 MILS OUTSIDE, 2 COATS OR 16 MILS INSIDE; LINED MANHOLES SHALL BE COATED OUTSIDE ONLY.  
5. PIPE CONNECTIONS AT MANHOLE JOINTS ARE NOT PERMITTED.  
6. EPOXY MORTAR INSIDE & OUTSIDE OF CHIMNEY/PRECAST CONCRETE GRADE RINGS & PIPE OPENINGS FOR A SMOOTH FINISH.

STANDARD MANHOLE  
NTS UCNSB 6/15

UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL



STANDARD MANHOLE RING AND COVER  
NTS UCNSB 6/15

UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FL

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA



5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

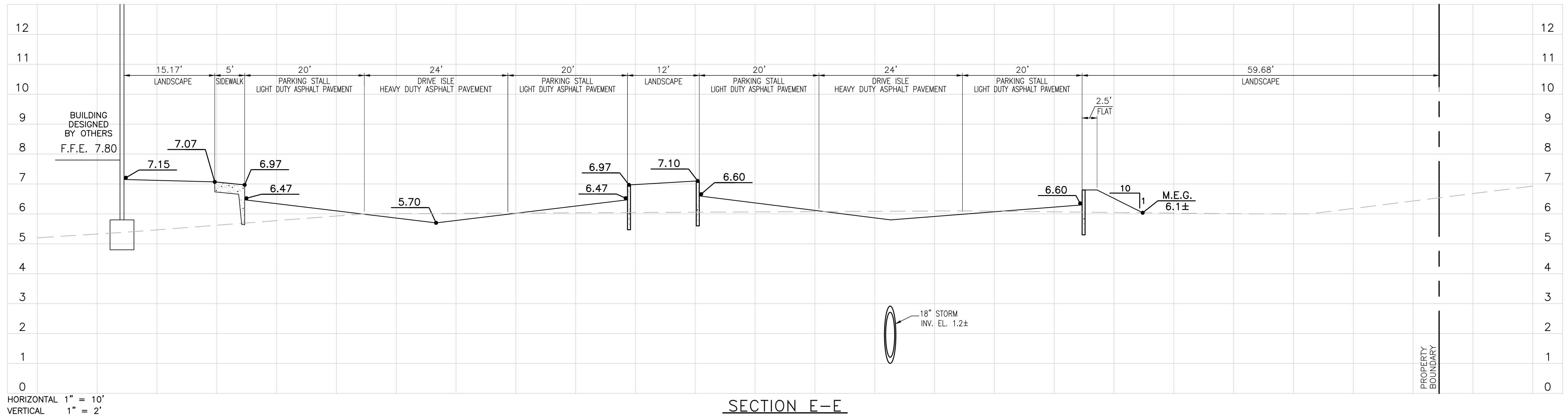
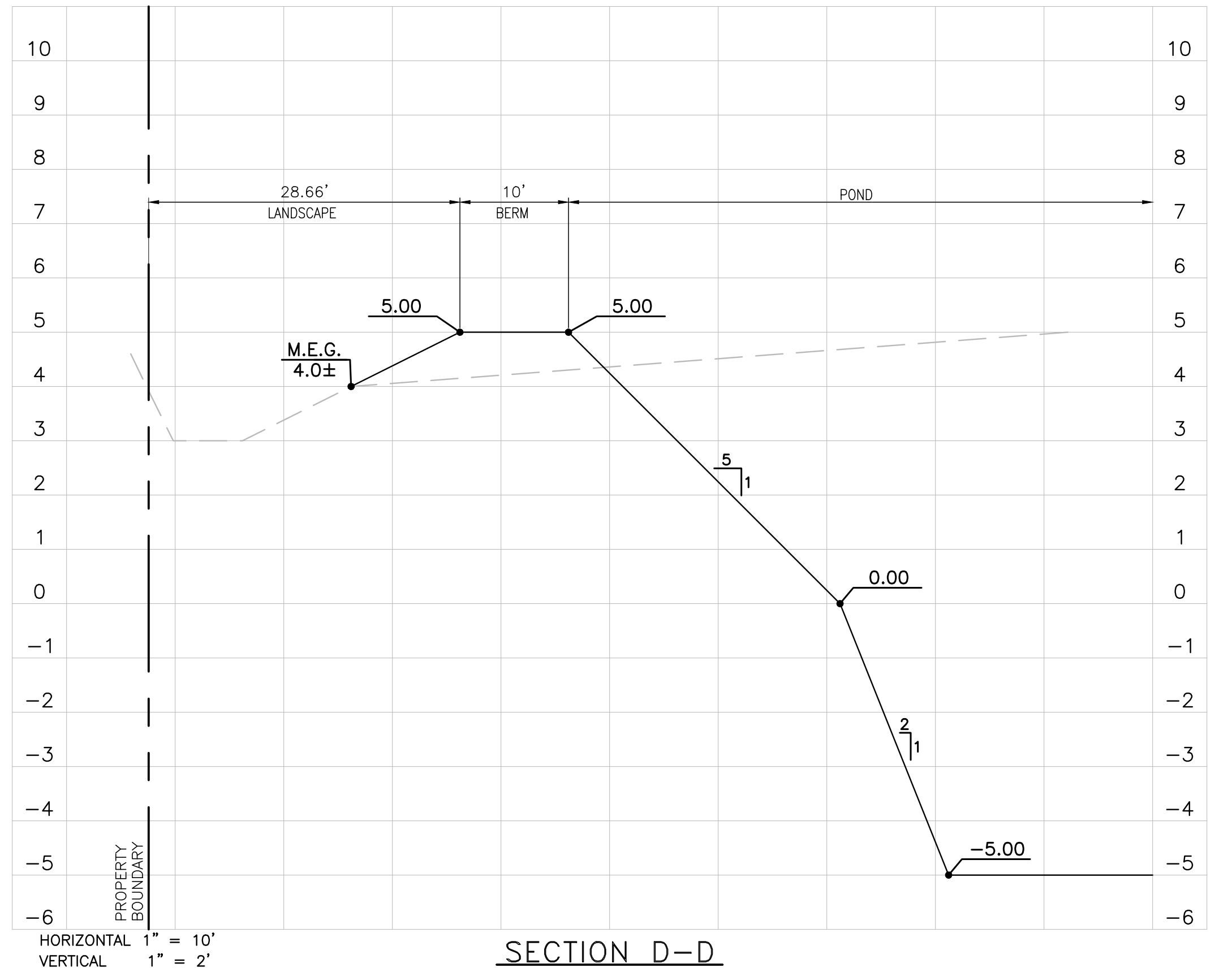
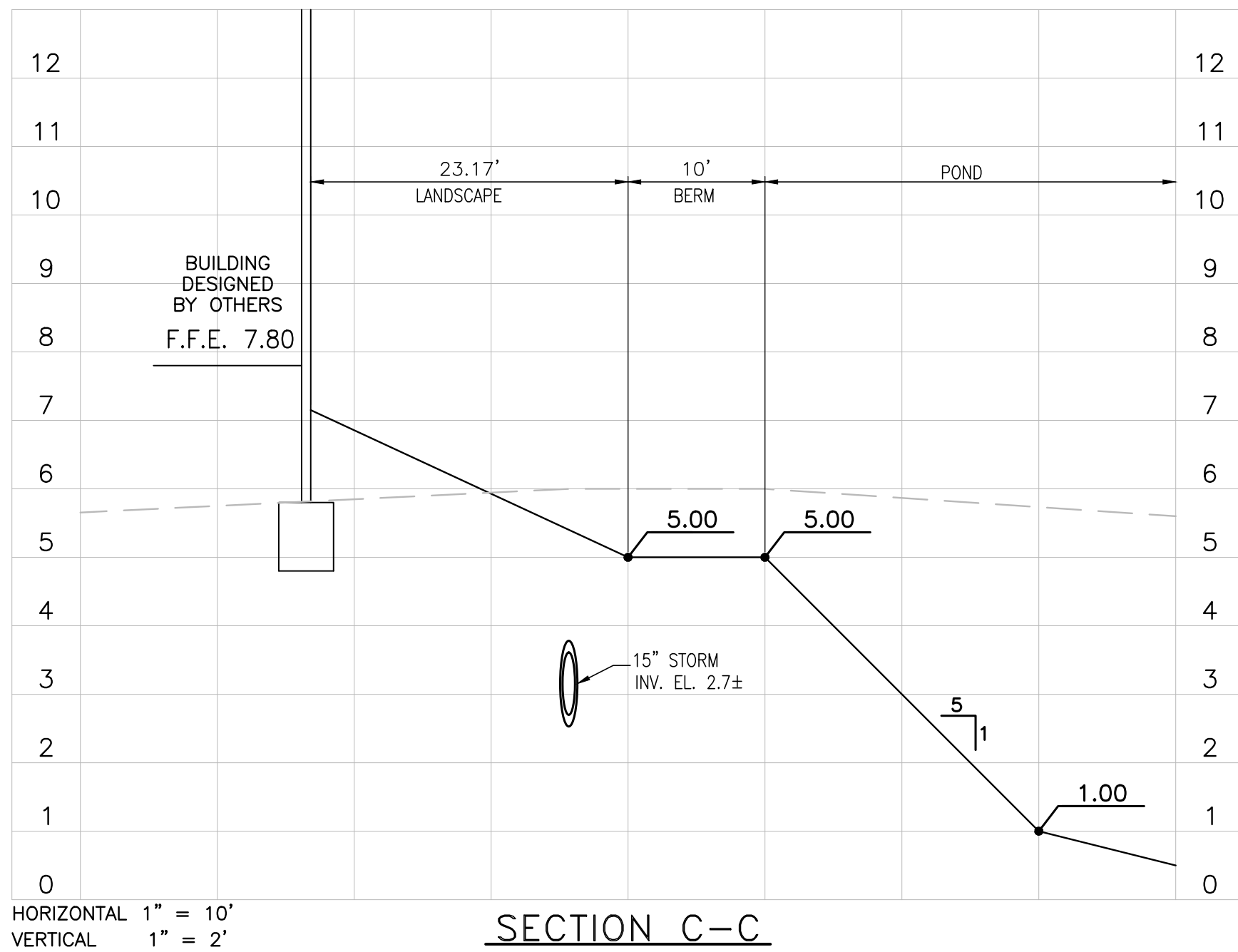
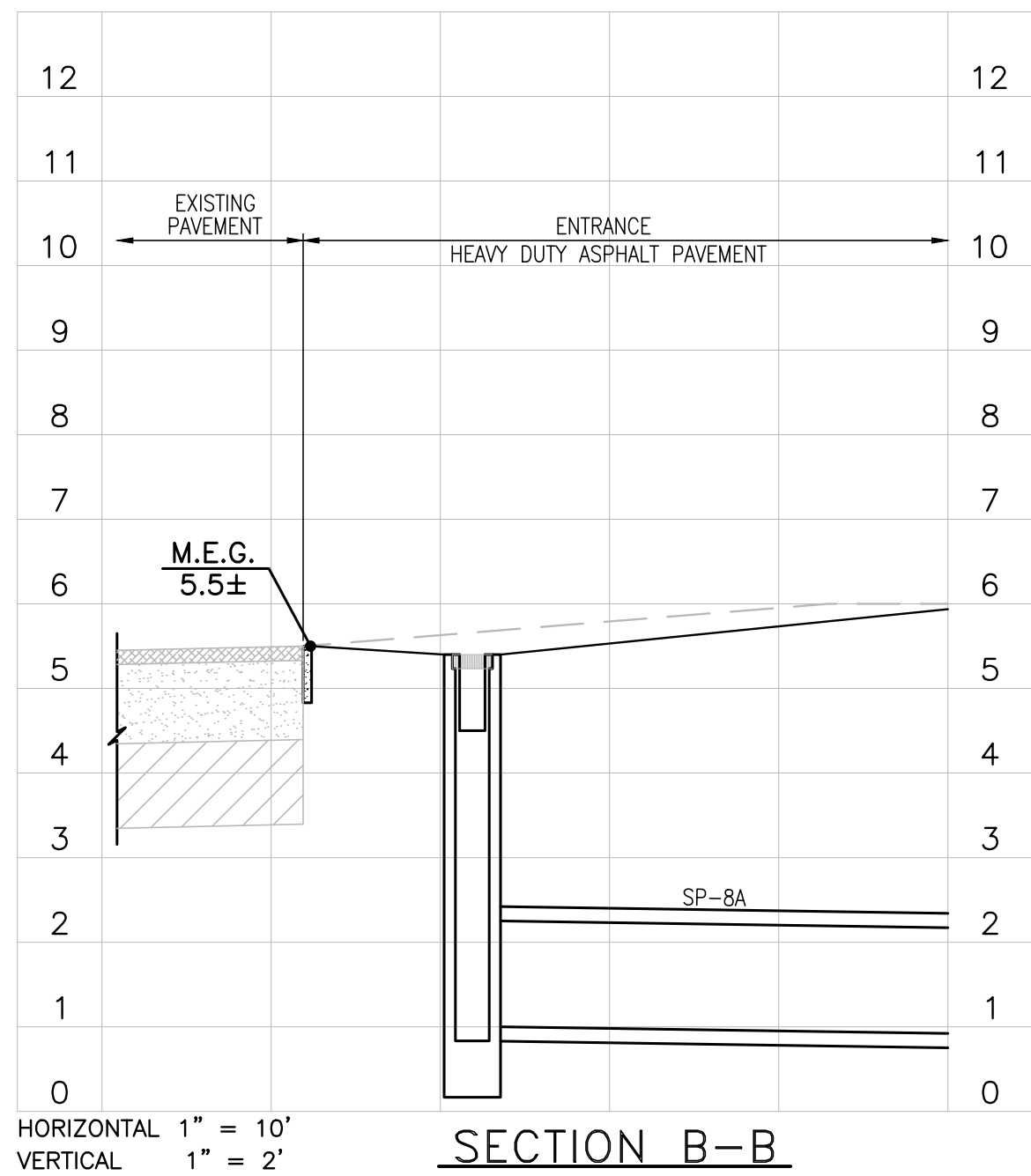
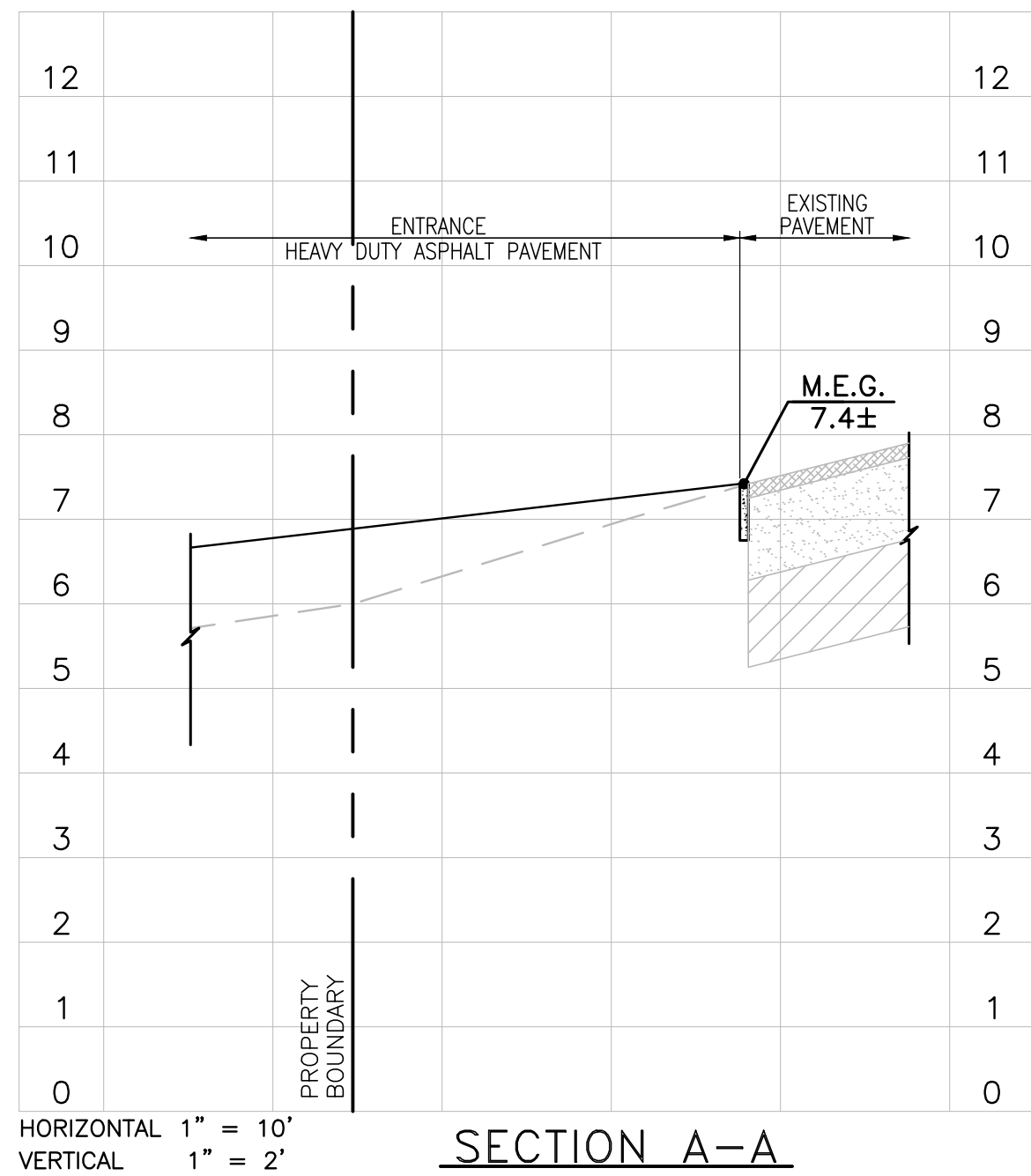
CITY DETAILS (3 OF 3)

DESIGNED BY      DRAWN BY      CHECKED BY      APPROVED BY

PROJECT NO. 20-145  
SCALE NOTED  
DATE JANUARY, 2021  
SHEET NO. C-9C  
SHEET 20 OF 25

FLORIDA ENGINEERING GROUP, INC.  
CERTIFICATE No. EB-0006595





DATE	REVISIONS	BY	CHECKED

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA

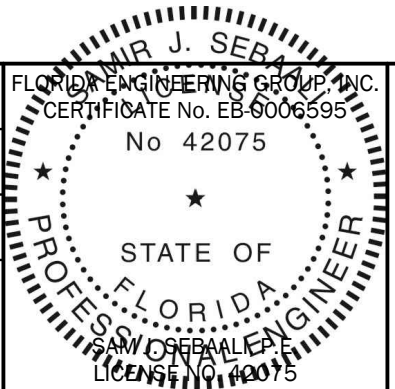


5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

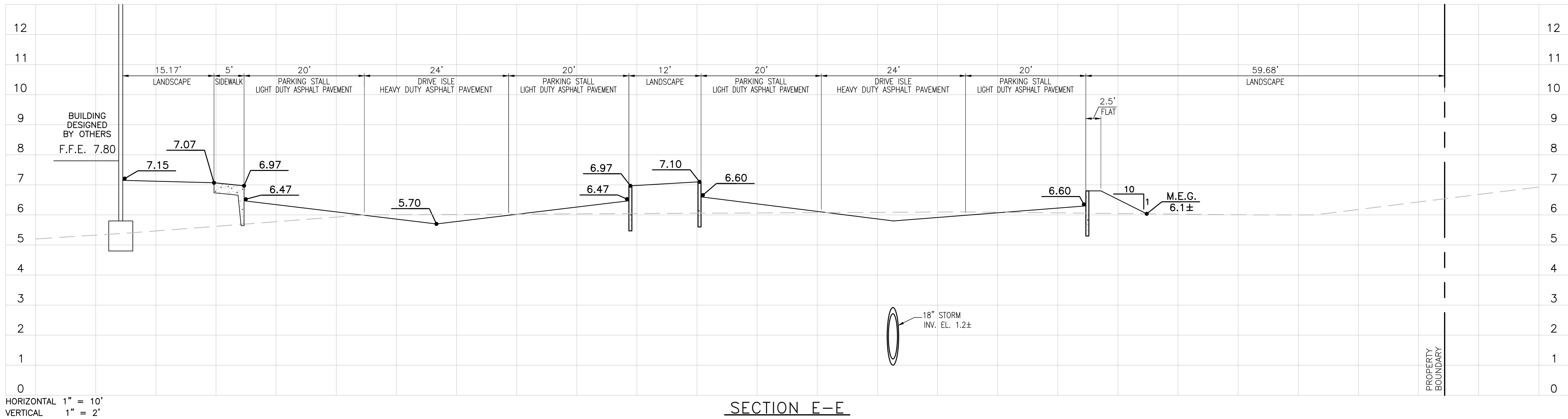
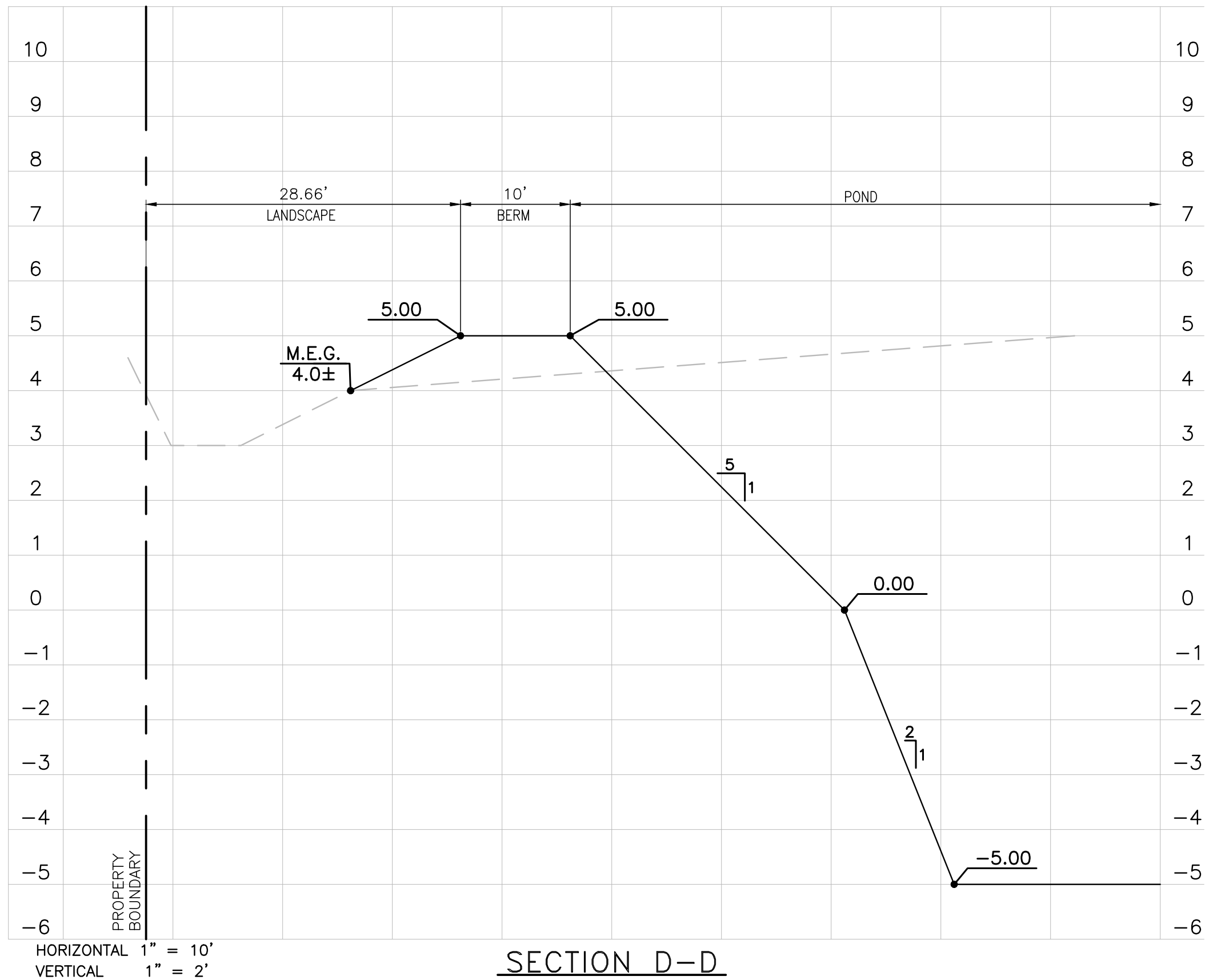
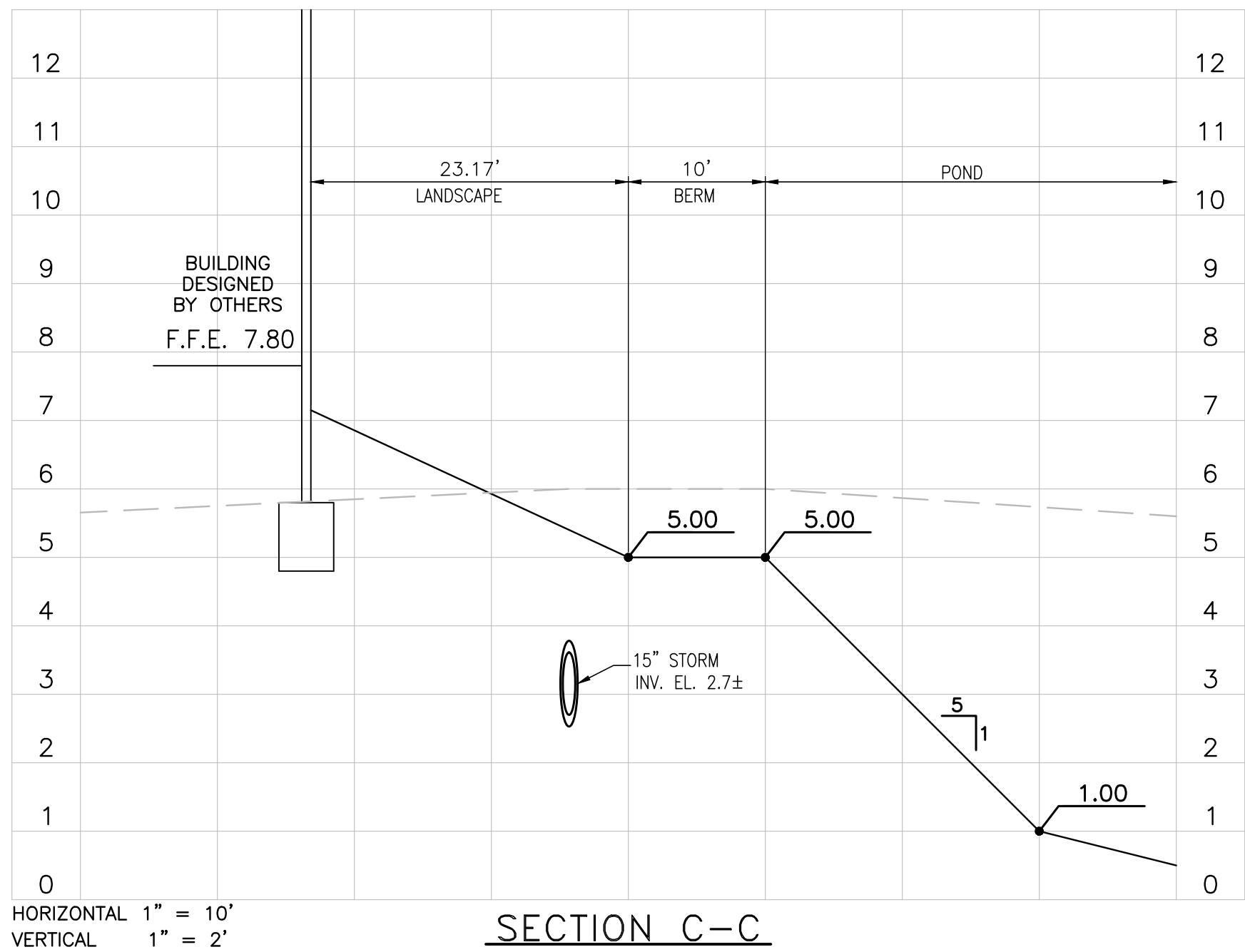
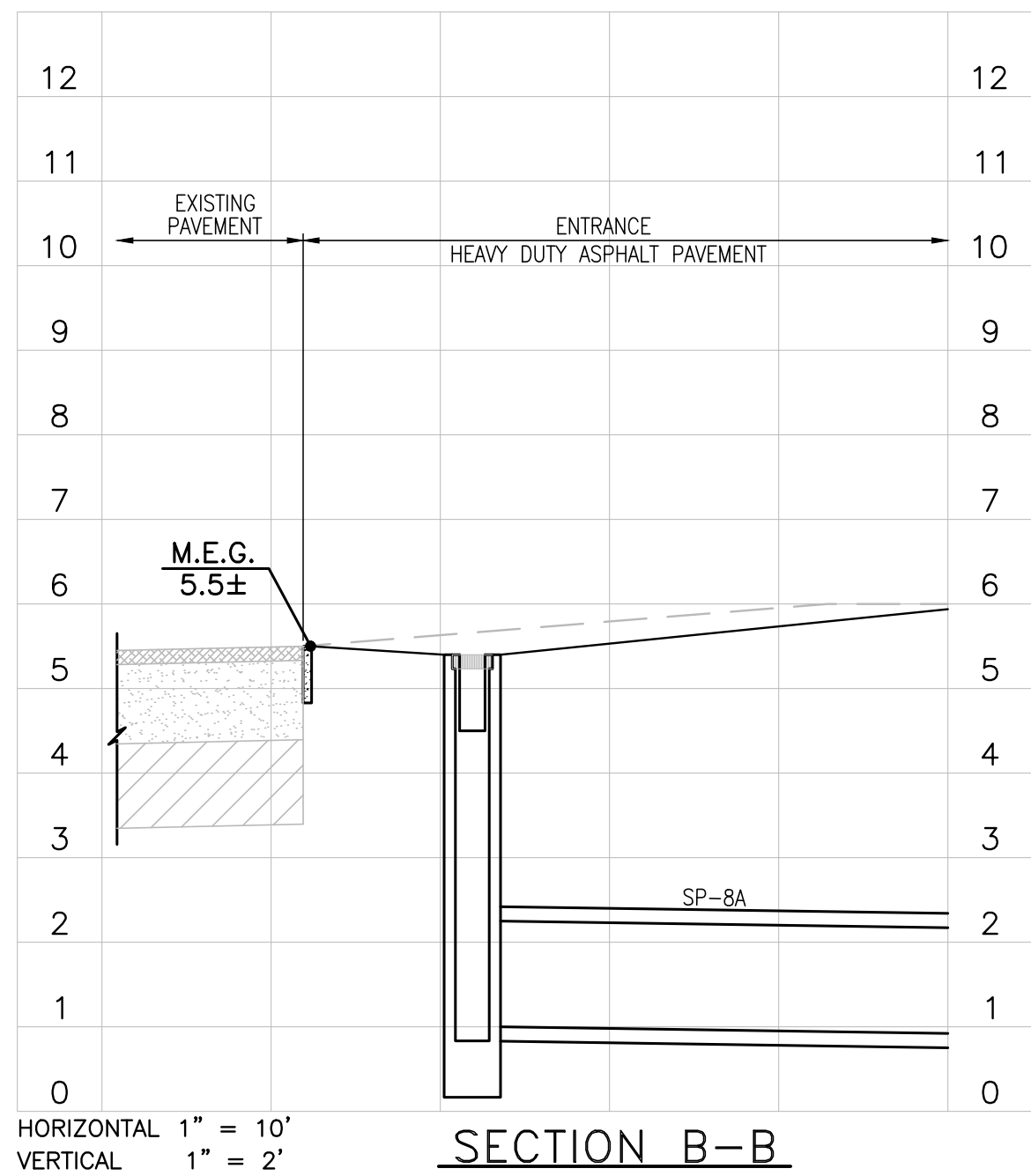
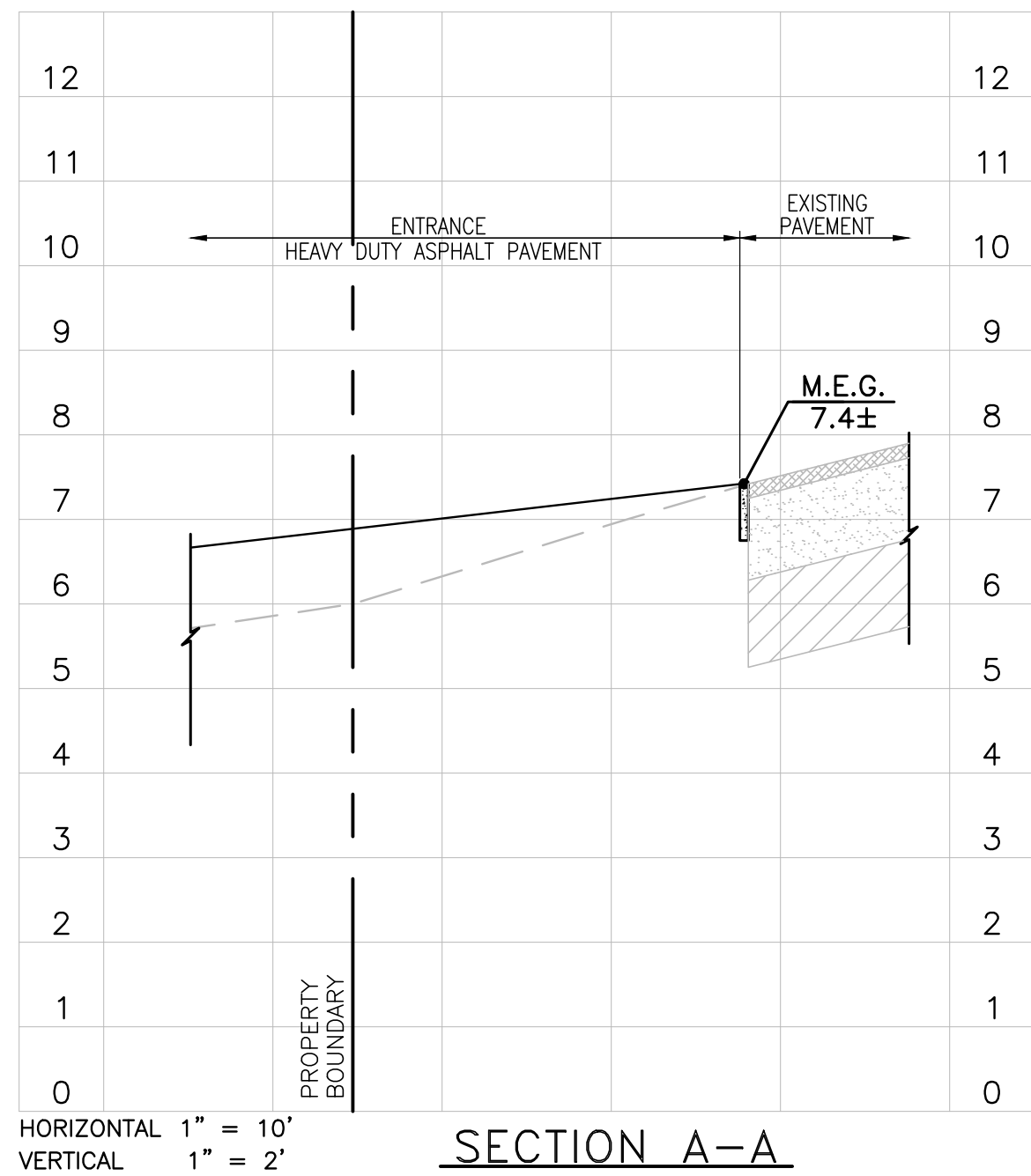
SITE CROSS SECTIONS (1 OF 2)

DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

PROJECT NO. 20-145	SCALE NOTED
DATE JANUARY, 2021	SHEET NO. C-10A
SHEET 21	OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS,  
HAS BEEN ELECTRONICALLY SIGNED AND  
SEALED BY SAM J. SEBALL, P.E. ON JANUARY  
XX, 2021 USING A DIGITAL SIGNATURE.  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.



DATE	REVISIONS	BY	CHECKED	

CONSTRUCTION PLANS  
WESTSIDE APARTMENTS  
NEW SMYRNA BEACH, FLORIDA

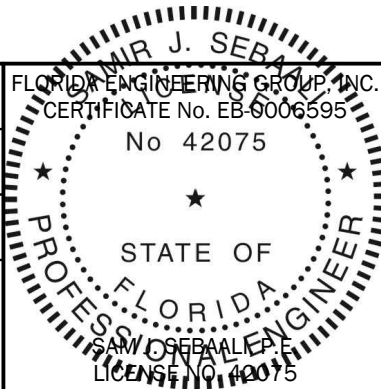


5127 S. Orange Avenue, Suite 200  
Orlando, FL 32809  
Phone: 407-895-0324  
Fax: 407-895-0325  
www.feg-inc.us

SITE CROSS SECTIONS (2 OF 2)

DESIGNED BY SJS	DRAWN BY JT	CHECKED BY SJS	APPROVED BY SJS
--------------------	----------------	-------------------	--------------------

PROJECT NO. 20-145
SCALE NOTED
DATE JANUARY, 2021
SHEET NO. C-10B
SHEET 22 OF 25



THIS ITEM, INCLUDING ANY BOUND SHEETS,  
HAS BEEN ELECTRONICALLY SIGNED AND  
SEALED BY SAM J. SEBALL, P.E. ON JANUARY  
XX, 2021 USING A DIGITAL SIGNATURE.  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.



