

CONSTRUCTION DOCUMENTS FOR:

AERO CENTER WILMINGTON

AIRCRAFT STORAGE HANGAR

WILMINGTON INTERNATIONAL AIRPORT

1835 FLIGHTLINE RD

WILMINGTON, NC 38405

PARCEL NUMBER:

R04200-001-025-000

DESIGN AND CONSTRUCTION TEAM

CLIENT/CONTRACTOR

AMH CONSTRUCTION

30 SOUTH IVEY LANE

ORLANDO, FL 32811

P. 407.920.8550

W. www.amhinc.co

M/E/P ENGINEER

ARCHITECTURAL ENGINEERING

INCORPORATED

36458 US 19 N

PALM HARBOR, FL 34684

P. 727.784.1472

W. www.aeifl.com

PROPERTY OWNER

NEW HANOVER COUNTY

230 GOVERNMENT CENTER DR

WILMINGTON, NC 28403

P. 910.798.7187

W. www.nhcgov.com

STRUCTURAL ENGINEER

STRUCTURES ONE

PO BOX 97

ODESSA, FL 33556

P. 813.549.5128

W. www.structuresone.net

ARCHITECT

SANDBAR ARCHITECTURE

102 EAST TARPON AVENUE

TARPON SPRINGS, FL 34689

P. 727.308.1773

W. www.sandbararc.com

CIVIL ENGINEER

JM SMITH ENGINEERING

155 CLARKESVILLE STREET

CORNELIA, GA 30531

P. 706.894.2331

W. www.jmsmithengineering.com

TENANT

MARATHON FBO PARTNERS

DBA AERO CENTER

WILMINGTON

1908 EASTWOOD ROAD

SUITE 224

WILMINGTON, NC 28403

P. 305.549.4011

W. www.aerocenters.com

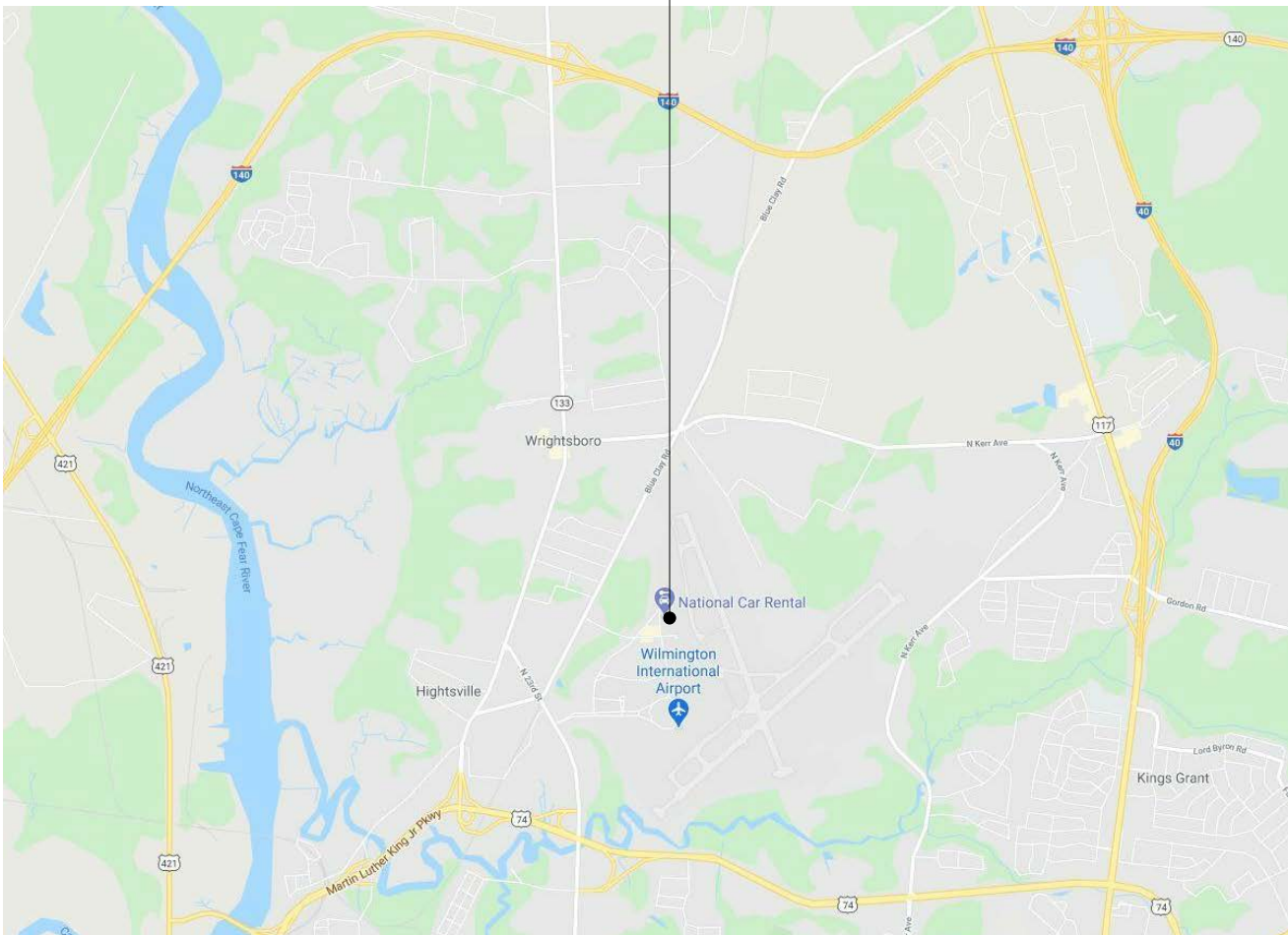
INTERIOR DESIGNER

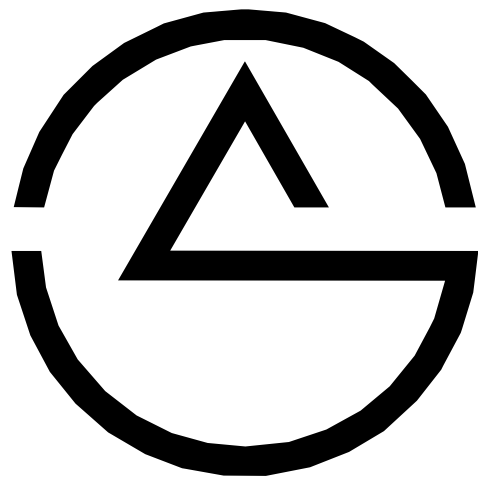
BLUETREE DESIGN

P. 407.463.3880

PROFESSIONAL STATEMENTS
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5 PRE-ENGINEERED METAL BUILDING COMPONENTS AND/OR ASSEMBLIES IDENTIFIED THAT HAVE BEEN DESIGNED AND CREATED BY OTHERS, ARE THE DIRECT RESULT OF DESIGN, TESTING, AND/OR APPROVALS DERIVED UNDER THE DIRECT SUPERVISION OF OTHERS TO MEET THE REQUIREMENTS THAT THEY REPRESENT IN THEIR PRODUCT DATA AND/OR LITERATURE. BY SIGNING AND SEALING OF THIS DOCUMENT, THE LICENSE HOLDER IS NEITHER ACCEPTING RESPONSIBILITY FOR SELECTION OF THE PRODUCTS AND/OR ASSEMBLIES BASED ON THE AFOREMENTIONED PRODUCT DATA AND/OR LITERATURE FROM THE PRE-ENGINEERED METAL BUILDING ENGINEER, NOR FOR THE PERFORMANCE OF THE PRODUCTS AND/OR ASSEMBLIES THEMSELVES.

DRAWING INDEX	
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SITE PROXIMITY MAP	
PROJECT LOCATION	
	



SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
S A N D B A R A R C . C O M
AA 26003331

CERTIFICATION



CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

AERO CENTER
WILMINGTON
AIRCRAFT
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INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

COVER SHEET

ISSUE

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ISSUE DATE

10.12.2020

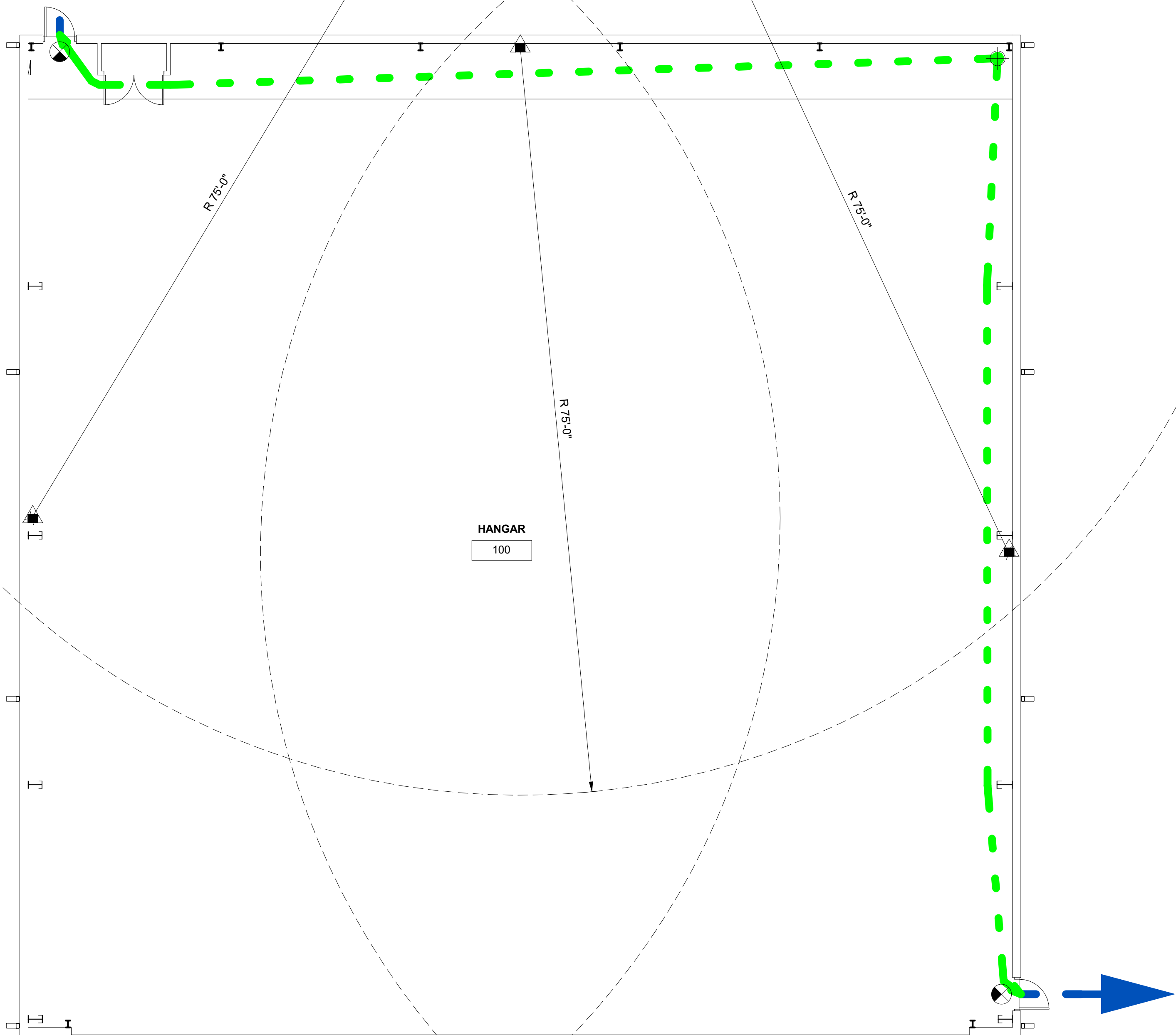
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























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GI001

OCCUPANT LOAD PER 2017 NCBC AND NCFPC TABLES 1004.1.2						
LEVEL	RM. #	NAME	FUNCTION OF SPACE	AREA (S.F.)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
MAIN LEVEL						
MAIN LEVEL	100	HANGAR	AIRCRAFT HANGERS	9851.7 SF	500	19.7
MAIN LEVEL	101	FIRE RISER	(none)	22.9 SF		
				9874.6 SF		19.7



OPENING PROTECTIVE	20 MINUTES		
OPENING PROTECTIVE	30 MINUTES		
OPENING PROTECTIVE	45 MINUTES		
OPENING PROTECTIVE	1 HOUR		
OPENING PROTECTIVE	1 1/2 HOUR		
OPENING PROTECTIVE	2 HOUR		
OPENING PROTECTIVE	3 HOUR		
OPENING PROTECTIVE	4 HOUR		
AUTOMATED EXTERNAL DEFIBRILLATOR			
EXIT ACCESS			
EXIT			
EXIT DISCHARGE			
EXIT SIGN			
PORTABLE FIRE EXTINGUISHER - WATER			
PORTABLE FIRE EXTINGUISHER - FOAM			
PORTABLE FIRE EXTINGUISHER - DRY CHEMICAL (LIQUID, GAS OR ELECTRIC)			
PORTABLE FIRE EXTINGUISHER - DRY CHEMICAL (ALL EXCEPT METALS)			
PORTABLE FIRE EXTINGUISHER - CO ₂			
PORTABLE FIRE EXTINGUISHER - HALON OR CLEAN AGENT			
PORTABLE FIRE EXTINGUISHER - METAL FIRES			
PRESSURIZED			
PULL STATION / FIRE ALARM BOX			
PARTITION, BARRIER, OR FIRE WALL (NO RATING)			
PARTITION, BARRIER, OR FIRE WALL (60 MINUTES)			
PARTITION, BARRIER, OR FIRE WALL (120 MINUTES)			
PARTITION, BARRIER, OR FIRE WALL (SMOKE PROTECTED, NO RATING)			
PARTITION, BARRIER, OR FIRE WALL (SMOKE PROTECTED, 60 MINUTES)			
PARTITION, BARRIER, OR FIRE WALL (SMOKE PROTECTED, 120 MINUTES)			
EGRESS COMPONENT IDENTIFIER			
EGRESS COMPONENT CAPACITY			
GOVERNING COMPONENT CAPACITY			
TRAVEL DISTANCE			
OCCUPANCY CAPACITY			
GOVERNING CODE REFERENCE			
FIRE TEST ID			
PANIC HARDWARE			

EXTRA HAZARD
WOOR WORKING, VEHICLE REPAIR, AIRCRAFT AND BOAT SERVICING, COOKING AREAS, INDIVIDUAL PRODUCT DISPLAY SHOWROOMS, PRODUCT CONVENTION CENTER DISPLAYS AND STORAGE AND MANUFACTURING PROCESS SUCH AS PAINTING, DIPPING, AND COATING INCLUDING FLAMMABLE LIQUID HANDLING, WAREHOUSING OR IN-PROCESS STORAGE OF OTHER THAN NFPA 13 CLASS I OR CLASS II COMMODITIES.

QUANTITY	UNIT OF A	TYPE	COVERAGE (SF)	HAZARD
3	1,000	4A-80B:C	3 x 1,000 x 4 = 12,000	EXTRA

TOTAL COVERAGE: 12,000 SF



02.05.2021

CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 3468
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCCLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

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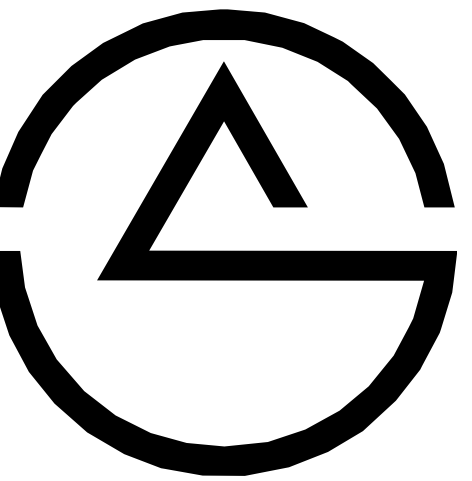
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SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARC.COM
AA 26003331

CERTIFICATION



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CONSULTANTS

ARCHITECT OF RECORD

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
55 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

E/P ENGINEER OF RECORD
W. RONALD MCLLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

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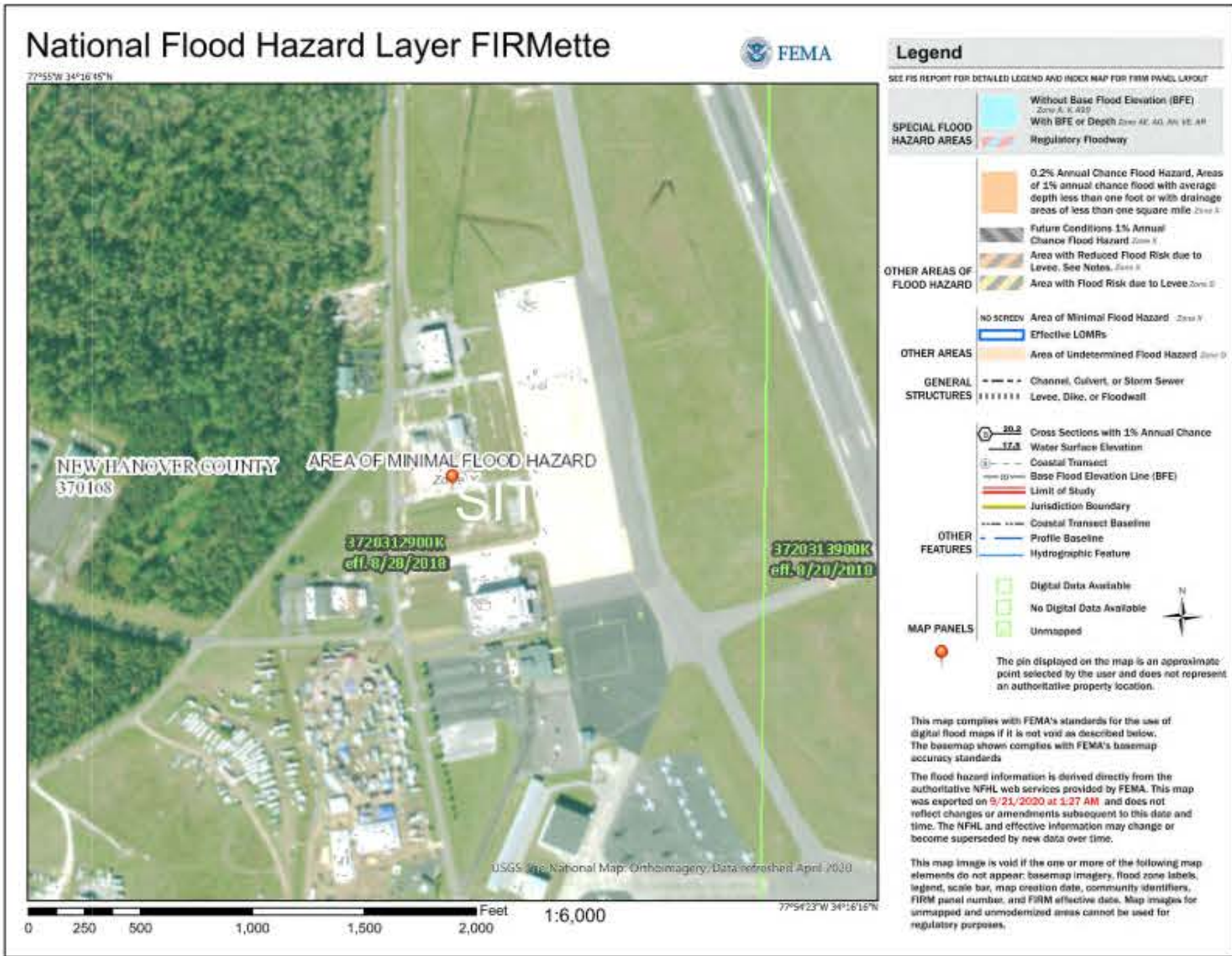
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24 HOUR CONTACT:
Christ DeVoter - South State Bank
(803) 231-3572

Wetland Certification: The design professional, whose seal appears hereon, certifies the following: 1.) The National Wetland Inventory Maps have been consulted; and, 2) The appropriate plan sheet [] Does, [X] Does Not (circle appropriate box) indicate areas of United States Army Corps of Engineers Jurisdictional Wetlands as shown on the maps; and, 3) If wetlands are indicated, the land owner or developer has been advised that land disturbance of protected wetlands shall not occur unless the appropriate Federal Wetlands Alteration ("Section 404") Permit has been obtained.

- General Notes:
- All construction material and procedures shall conform to applicable municipality's latest revision of their standard specifications.
 - All underground utility locations are approximate and are based on field evidence. Exact locations of utilities shall be determined by the contractor at the time of construction. The contractor shall field locate all utilities prior to beginning construction activity. Damage to any utilities shall be replaced in kind and in good working order at the contractor's expense. In the event an existing utility requires relocating, the contractor shall contact and coordinate the work with the respective utility owners prior to relocation.
 - The contractor shall erect signs, barricades, flags, and/or other devices to adequately warn, control, direct, and maintain traffic at all times in accordance with the manual of uniform.
 - All disturbed unpaved areas shall be permitted per local requirements.
 - Contractor is responsible to maintain access for emergency vehicles at all times.
 - Any construction trailers shall be permitted per local requirements.
 - No additional construction or improvements, including but not limited to walls, fences, signs, sprinkler systems, lights, trees, etc. will be allowed on the road right-of-way.
 - All construction and materials shall conform to their respective government regulations.
 - The property shown hereon appears not to be located in Flood Zone and does not appear to be in a Special Flood Hazard Area (Subject to inundation by the 1% annual chance flood) and also Other Flood Areas - Zone "X" (Area of 0.2% annual chance flood; areas of 1% annual flood with average depths of less than 1 foot or with drainage areas less than 1 square miles; and areas protected by levees from 1% annual chance flood) as shown on Flood Insurance Rate Map having a Map Number of FM 3720312900K and having an Map Revised Date of 8/28/2018 as established by the Federal Emergency Management Agency.
 - The contractor will notify utility companies prior to any construction performed in the area of existing utilities. Utility locations shown here are based on surface field locations and underground lines were not verified as to direction, size, depth, or condition.



DEVELOPER INFORMATION

DEVELOPER: New Hanover County - Contact
DEVELOPER ADDRESS: 230 Government Center Drive Wilmington, NC 28403
PHONE: 910-798-7187

- Note: Site is located within an Airport Overlay District. No use may be made of land or water within any zone established by this section in such a manner as to:
- Create electrical interference with navigational signals or radio communication between the airport and aircraft;
 - Make it difficult for flyers to distinguish between airport lights and others;
 - Result in glare in the eyes of pilots using the airport;
 - Impair visibility in the vicinity of the airport;
 - Create bird strike hazards; or
 - Otherwise in any way endanger or interfere with the landing, takeoff, or maneuvering of aircraft intending to use the airport.

PERMIT SET - VALID WITH APPROVAL STAMP



J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS

TEL (803) 231-3572
LOCAL (704) 394-3371
FAX (678) 267-3731
www.jm-smith-engineering.com

POST OFFICE BOX 331
CORNELIA, GEORGIA 30531



DESIGNED: JMS
DRAWN: JMS
CHECKED: JMS

DATE: 1/17/2020

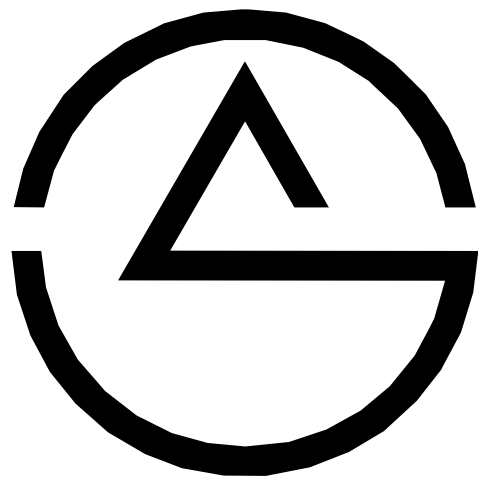
JMS NO.: 2020-274-01

SCALE: As Noted

Aero Center Wilmington
1830 1834 & 1835 Flightline Road Wilmington, GA 28405
313915.53.7748.000
New Hanover County, NC
FOR
Marathon FBO DBA Aero Ctr Wilm.

GENERAL NOTES

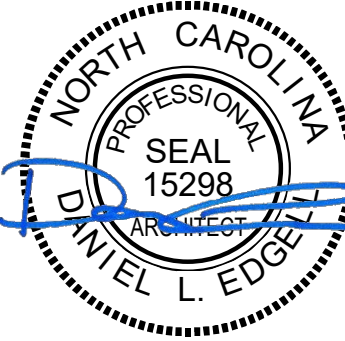
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SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331

CERTIFICATION



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CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
J M SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

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COMMISSION 20-02a

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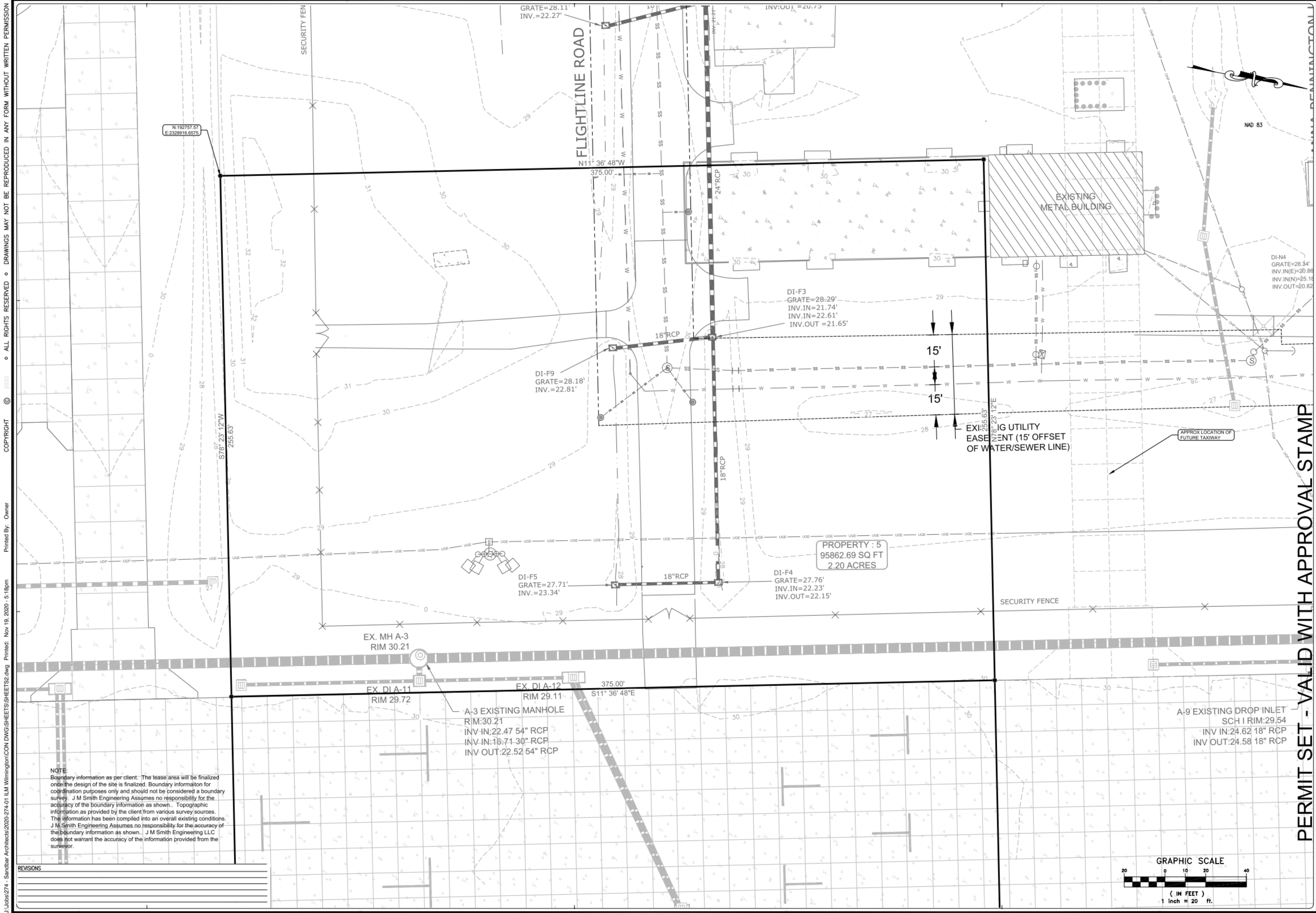
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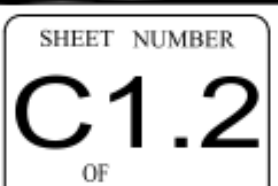
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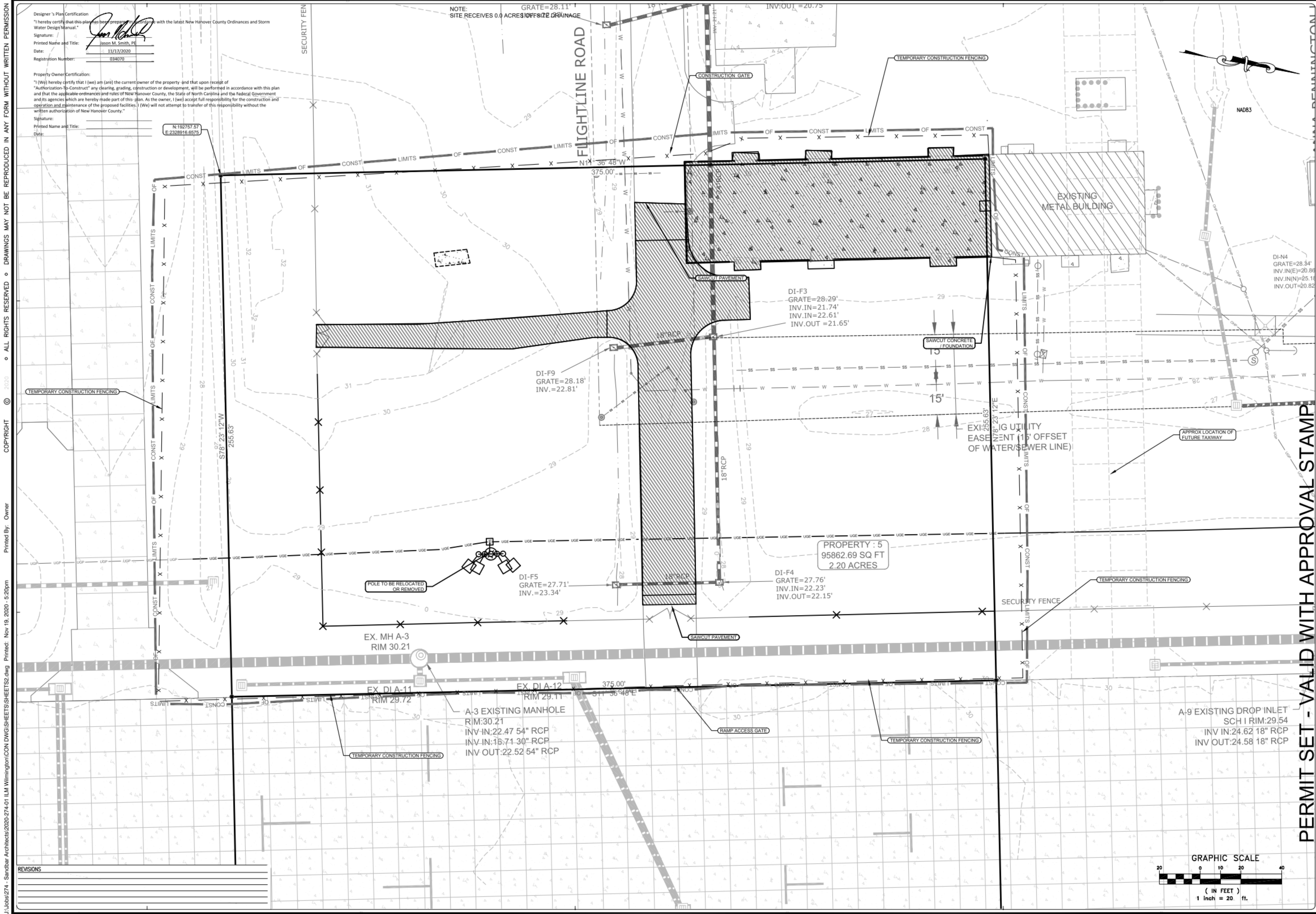
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Call before you dig.

J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS

POST OFFICE BOX 331
TARPOON SPRINGS, FL 34689
CORNELIA, GEORGIA 30531

TEL (850) 345-3300
LOCAL (904) 894-3331
FAX (878) 267-3331
www.jmsmithengineering.com

J M Smith Engineering, LLC

REVISION	DRAWN	CHECKED
DATB11/17/2020	JMS	JMS
JOB NO.: 2020-274-01		
SCALE: As Noted		

Aero Center Wilmington
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Marathon FBO DBA Aero Ctr Wilm.

DEMO PLAN

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C2.0
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102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARCH.COM
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CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
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P. 706.894.2331

STRUCTURAL ENGINEER
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PO BOX 97
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P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLIVEN
36458 US 19 N
PALM HARBOR, FL 36484
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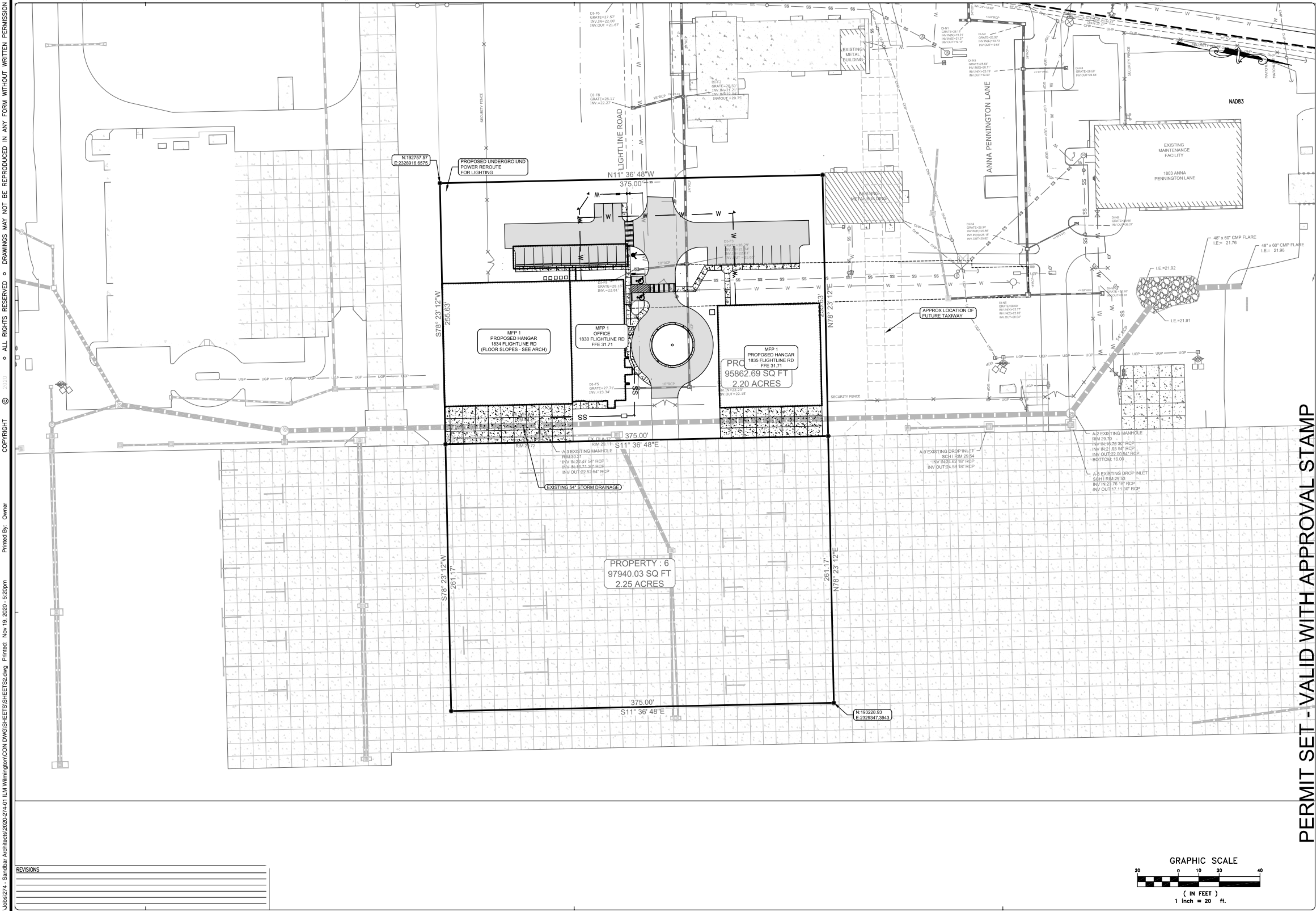
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JJ M Smith Engineering LLC
ENGINEERS AND CONSULTANTS

POST OFFICE BOX 331
155 CLARKESVILLE STREET
CORNELIA, GEORGIA
30531

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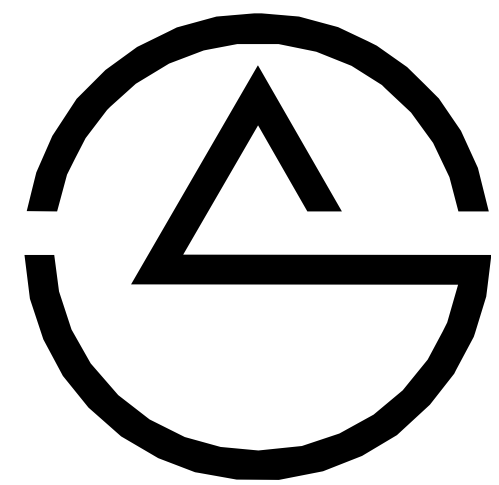
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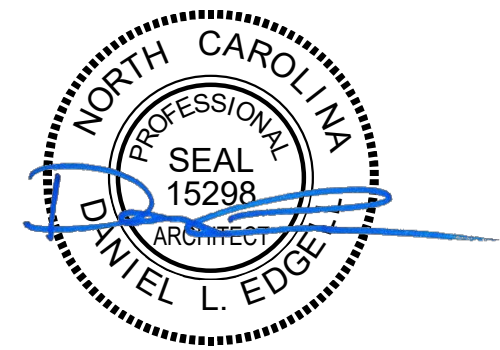
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DOCUMENTS

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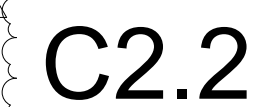
10.12.2020

ISSUE REVISIONS

[illegible]

DRAWING NUMBER

C2.1



The number of parking spaces provided will accommodate the personnel required for operations and management of the aviation facility. There is no standard in the NHC regulations. Parking requirements based on end users typical requirements based on prior experience for similar type projects.

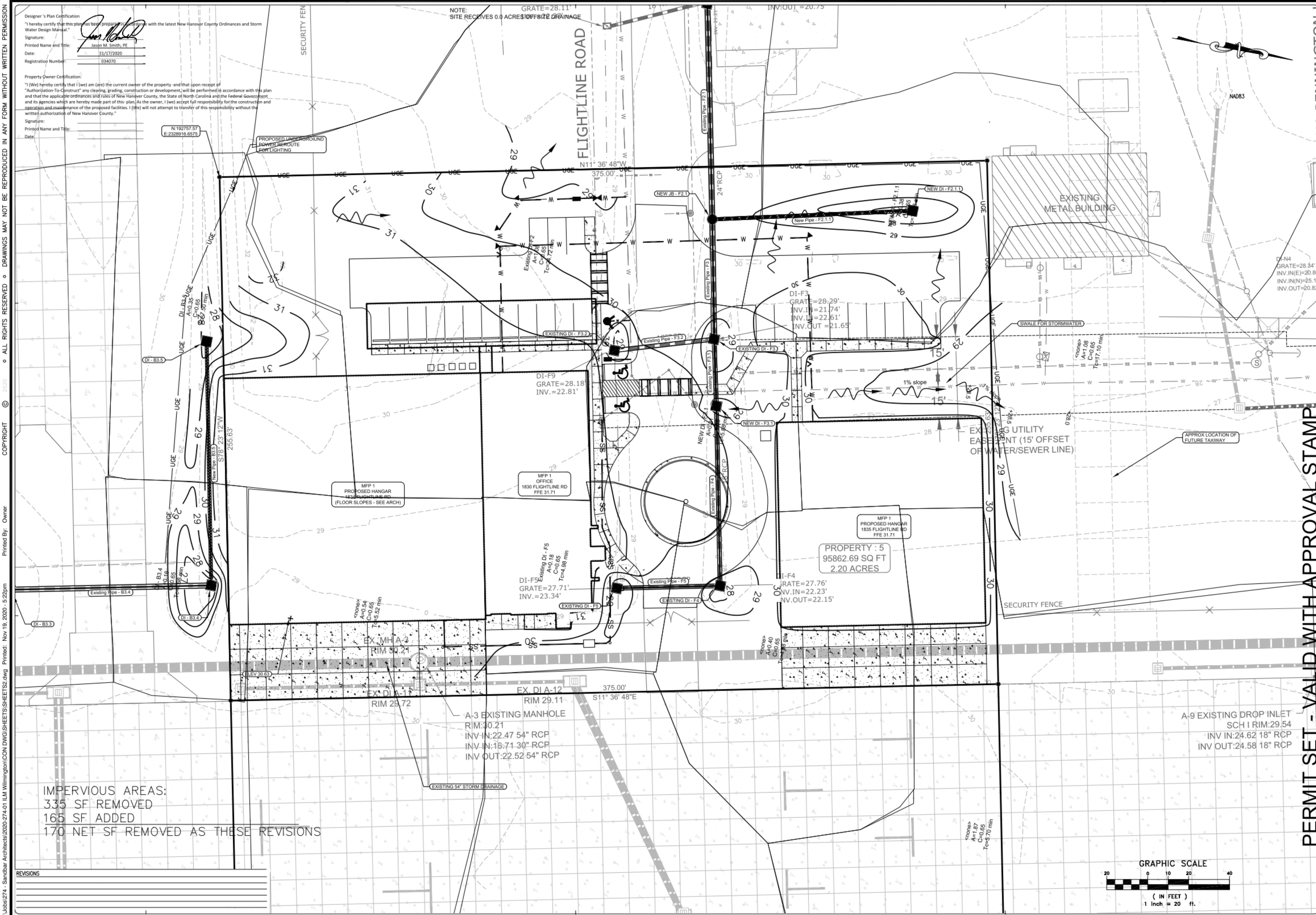
Aero Center Wilmington
830, 1834 & 1835 Flightline Road Wilmington, NC 28405
313915.53.7748.000
New Hanover County, NC
FOR
Marathon FBO DBA Aero Ctr Wilm.
SITE AND UTILITY PLAN

SHEET NUMBER
C2.2
OF

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J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS

POST OFFICE BOX 331
155 CLARKESVILLE STREET
CORNELIA, GEORGIA 30531

TEL: (678) 267-3690
LOCAL: (706) 894-2333
FAX: (678) 267-3733

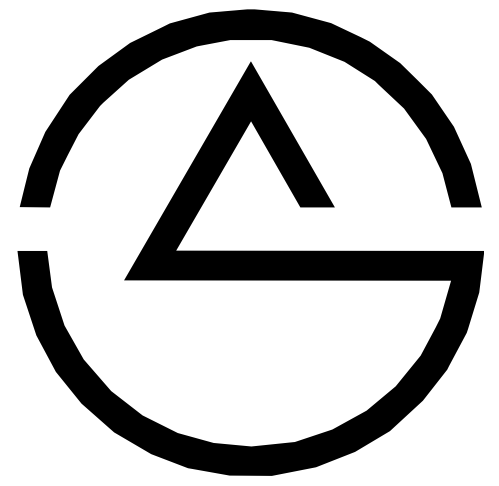
www.jmsmithengineering.com



DESIGNED JMS	DRAWN JMS	CHECKED JMS
DATE: 1/17/2020		
JOB NO.: 2020-274-01		
SCALE: As Noted		

Aero Center Wilmington
1830, 1834 & 1835 Flightline Road Wilmington, GA 28405
313915.53, 7748.000
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.

SHEET NUMBER
C3.0
OF



SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
S A N D B A R A R C . C O M
AA 26003331

CERTIFICATION



02.05.202

CONSULTANTS

ARCHITECT OF RECORD

DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

W. RONALD MCLLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

GRADING AND DRAINAGE PLAN

ISSUE

CONSTRUCTION
DOCUMENTS

ISSUE DATE

10.12.2020

[illegible]

DRAWING NUMBER

C3.0

Map Scale: 1:1,220 (Printed on A landscape (11" x 8.5") sheet).

0 15 30 60 Meters

0 50 100 200 Feet

Map projection: WGS84-Mercator Corner coordinates: WGS84 Edge IDs: UTM Zone 18N WGS84

North arrow pointing up.

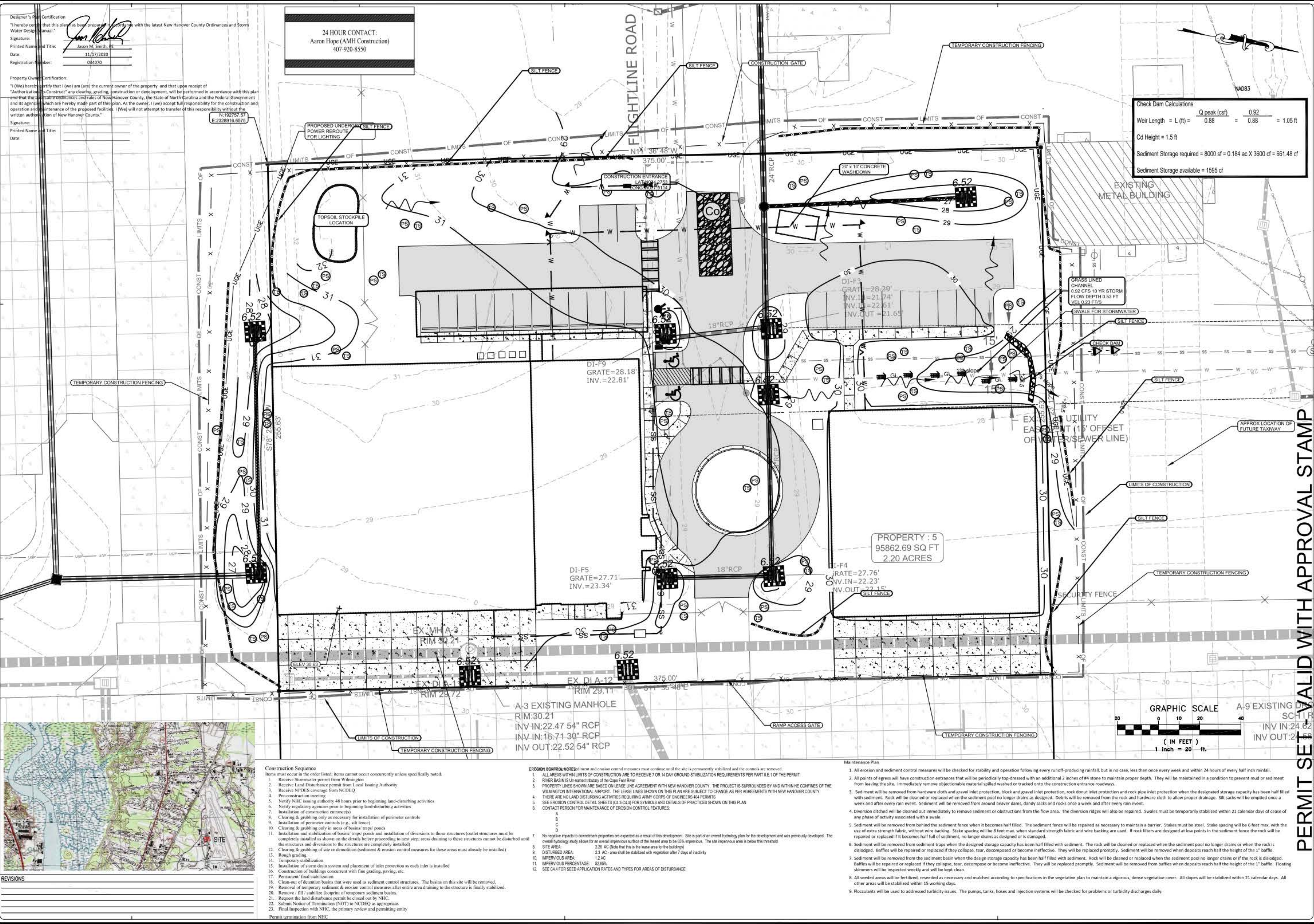
Map labels: Flightline Rd, ST.

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24 HOUR CONTACT:
Aaron Hope (AMH Construction)
407-920-8550



C4.0



J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS

North Carolina
Professional Engineer
Seal 15298
Daniel L. Edgell

Smith Engineering, LLC

1830, 1834 & 1835 Flightline Road, Wilmington, NC 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.

ES&PC

C4.1
OF



102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331



02.05.2021

CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
J M SMITH ENGINEERING
155 CLARKSVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5126

M/E/P ENGINEER OF RECORD
W. RONALD MCLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

**AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR**

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

ES&PC PLAN

ISSUE

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DOCUMENTS

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No.	Date	Description
1	1/15/2021	PERMIT COMMENTS

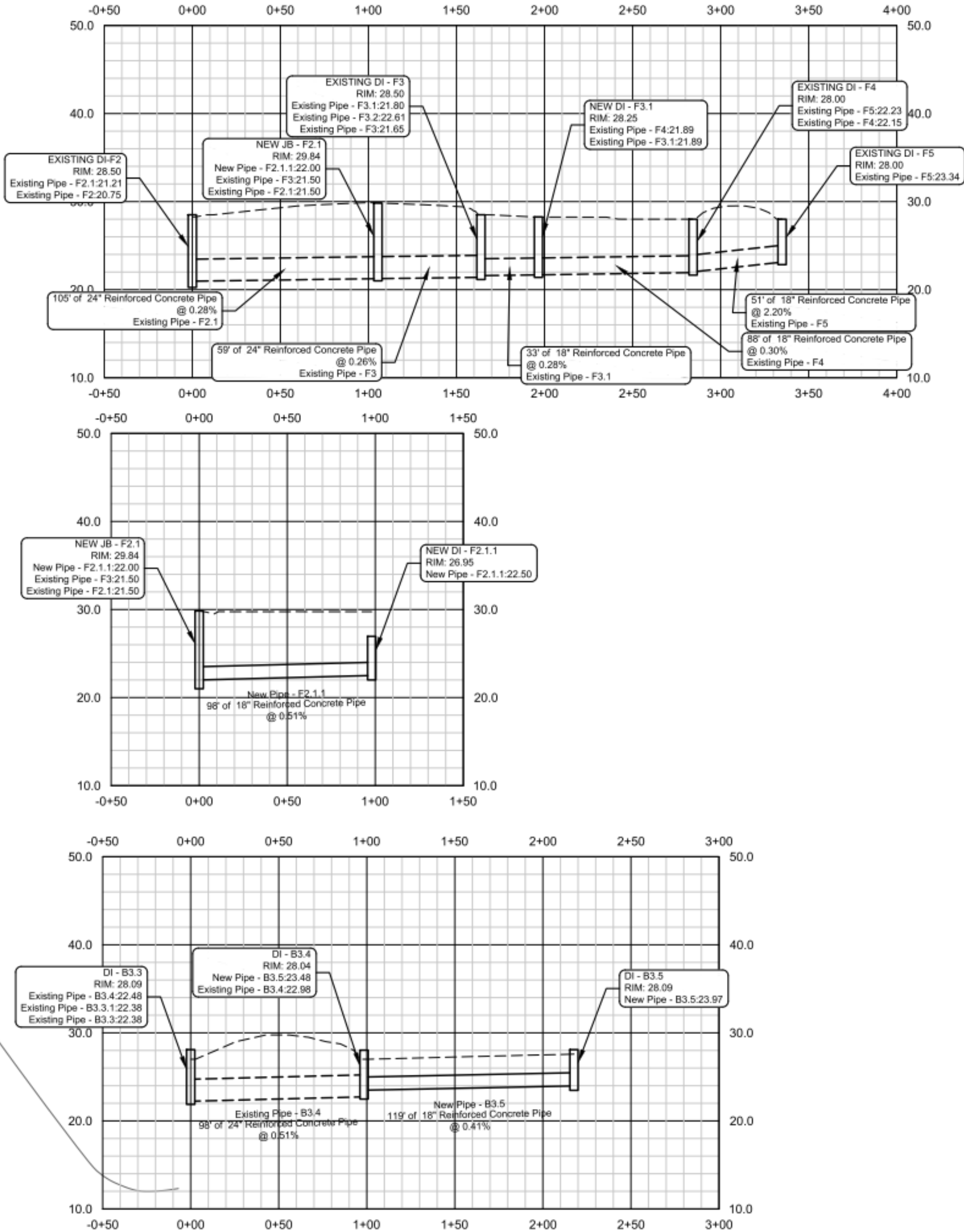
DRAWING NUMBER

C4.1



REVISIONS	

InletID	QCaptured (cfs)	InletTime (min)	iInlet (in/hr)	DrainageArea (ac)	LineSize (in)	-valuePipe	HGLUp (ft)	HGLDn (ft)	VelDn (ft/s)
JB B3.1	0	0	0	24	0.013	22.94	22.82	4.75
DI B3.2	1.55	5.2	10.58	0.12	24	0.013	22.99	22.94	4.78
DI - B3.3	3.29	11.9	8.43	0.6	24	0.013	25.26	23.03	4.98
DI - B3.3.1	0.71	5	10.99	0.1	18	0.013	26.07	25.83	3.29
DI - B3.3.2	1	5	10.99	0.14	18	0.013	26.57	26.07	2.2
DI - B3.4	1.14	5	10.99	0.16	24	0.013	25.4	25.26	2.05
DI - B3.5	2.25	7.5	9.87	0.35	18	0.013	25.95	25.4	3.31
Existing DI-F1	3.86	22.8	6.31	0.94	24	0.013	22.19	21.89	5.7
Existing DI-F2	4.26	24.7	6.06	1.08	24	0.013	22.75	22.65	2.46
NEW JB - F2.1	0	0	0	0	24	0.013	22.83	22.8	1.49
Existing DI - F3	1.58	5.2	10.58	0.18	24	0.013	22.91	22.9	1.28
Existing DI - F3.2	0.79	0.1	10.99	0.11	18	0.013	23.16	22.96	2.51
NEW DI - F3.1	1.44	5.9	10.56	0.21	18	0.013	22.97	22.96	1.58
Existing DI - F4	1.25	6.25	10.11	0.18	18	0.013	23.01	23	0.84
Existing DI - F5	1.29	5	10.99	0.18	18	0.013	23.76	23.04	1.32
NEW DI - F2.1.1	1.79	17	7.26	0.38	18	0.013	23.18	22.9	1.03



24 HOUR CONTACT:
Aaron Hope (AMH Construction)
407-920-8550

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Aero Center Wilmington
1830, 1834 & 1835 Flightline Road Wilmington, GA 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.



J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773



C5.0

DRAWING NUMBER

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1	1/15/2021	PERMIT COMMENTS

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CONSTRUCTION DOCUMENTS

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STORM PROFILES

DRAWING NAME

COMMISSION 20-02a

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR

PROJECT INFORMATION

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

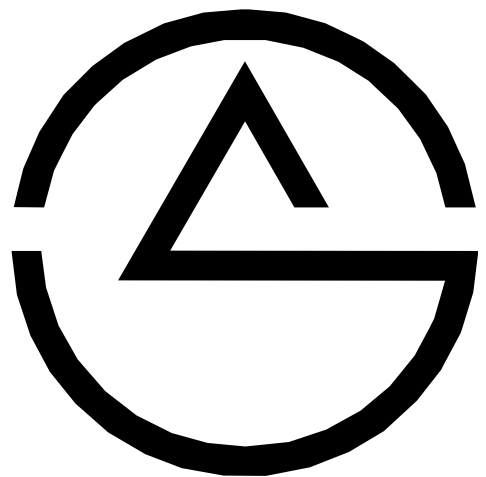
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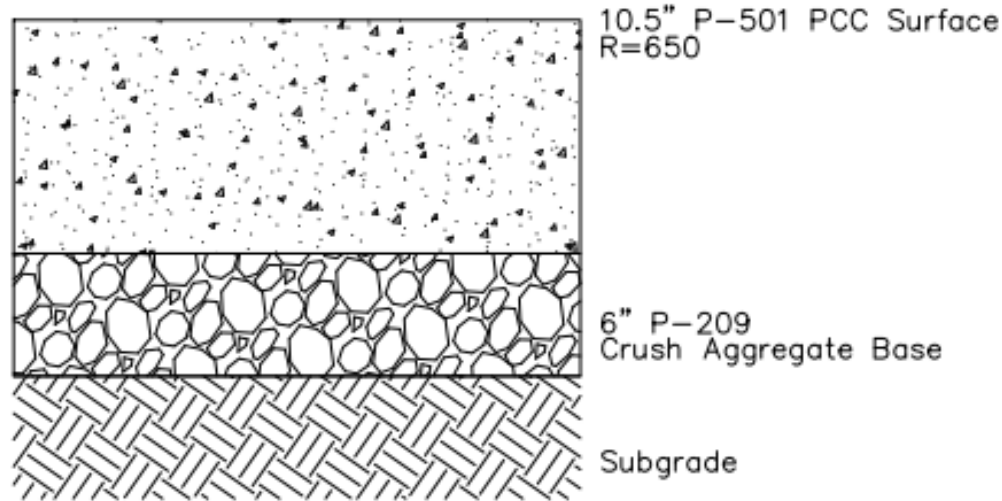
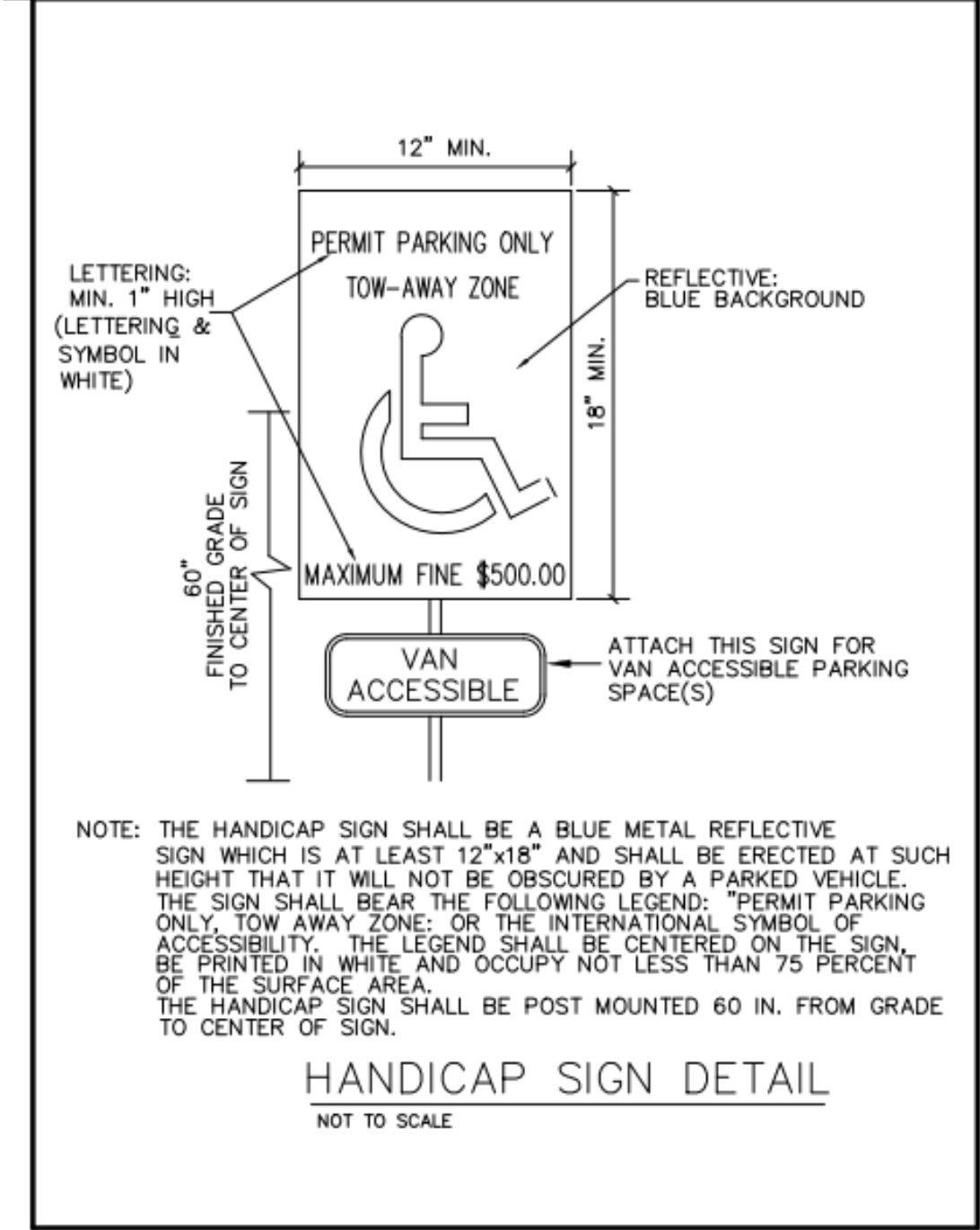
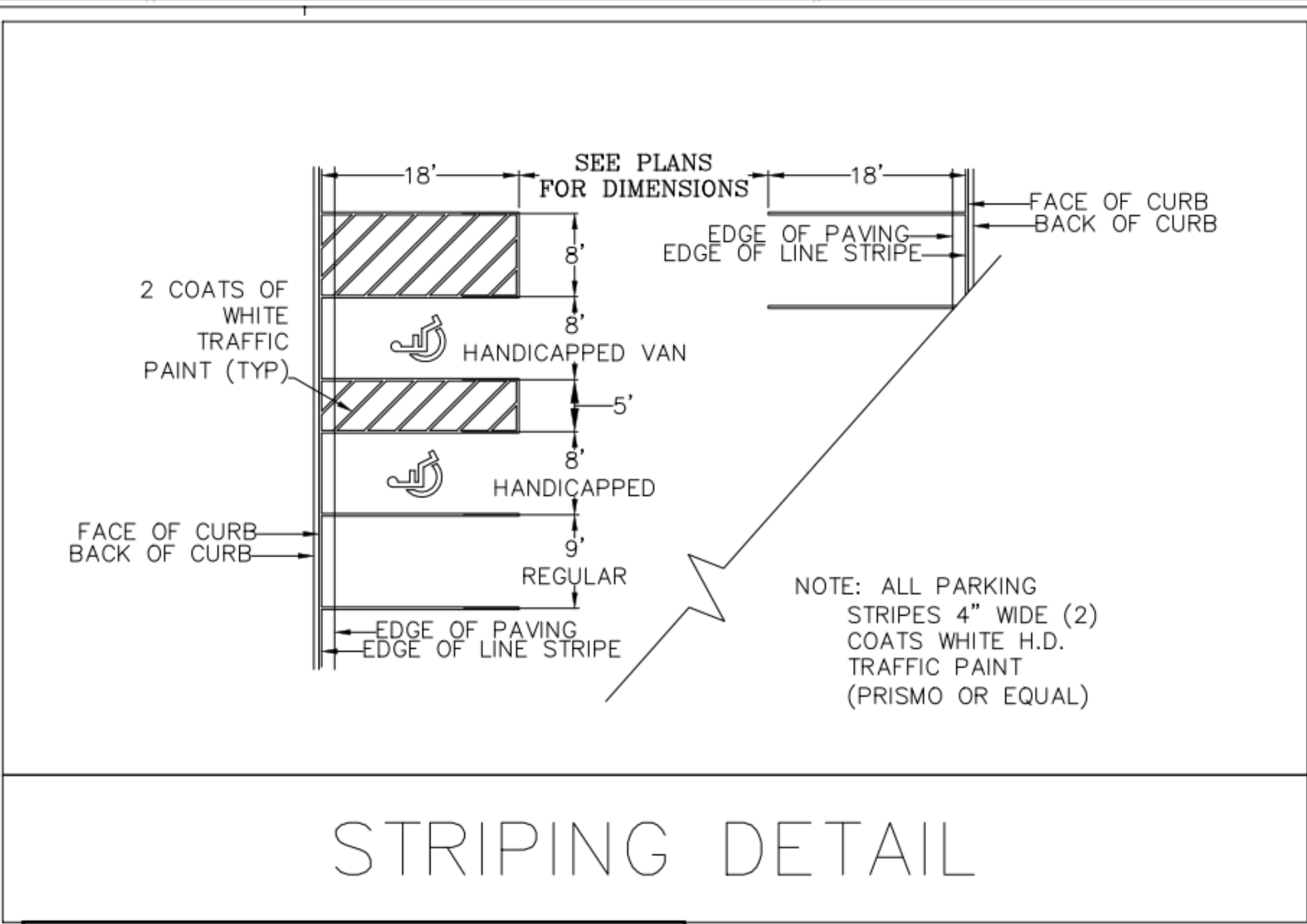
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TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331

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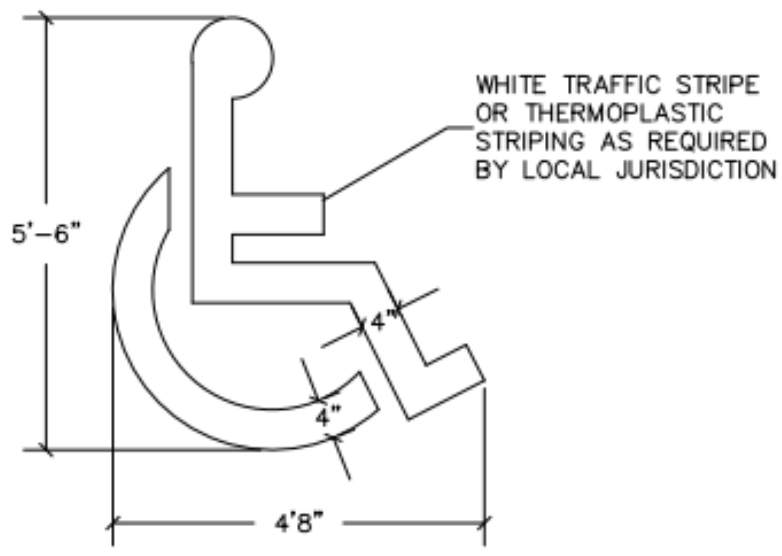
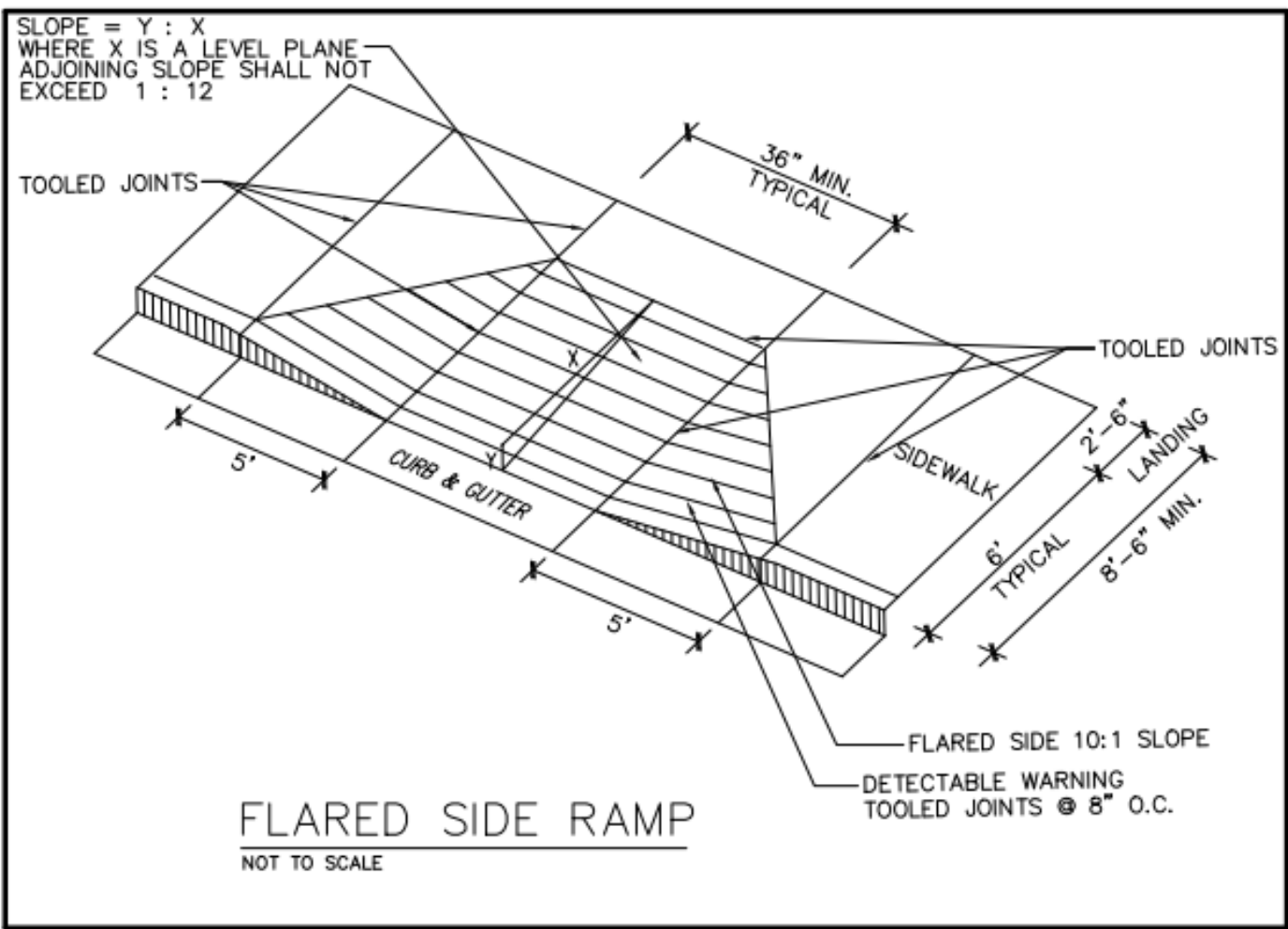
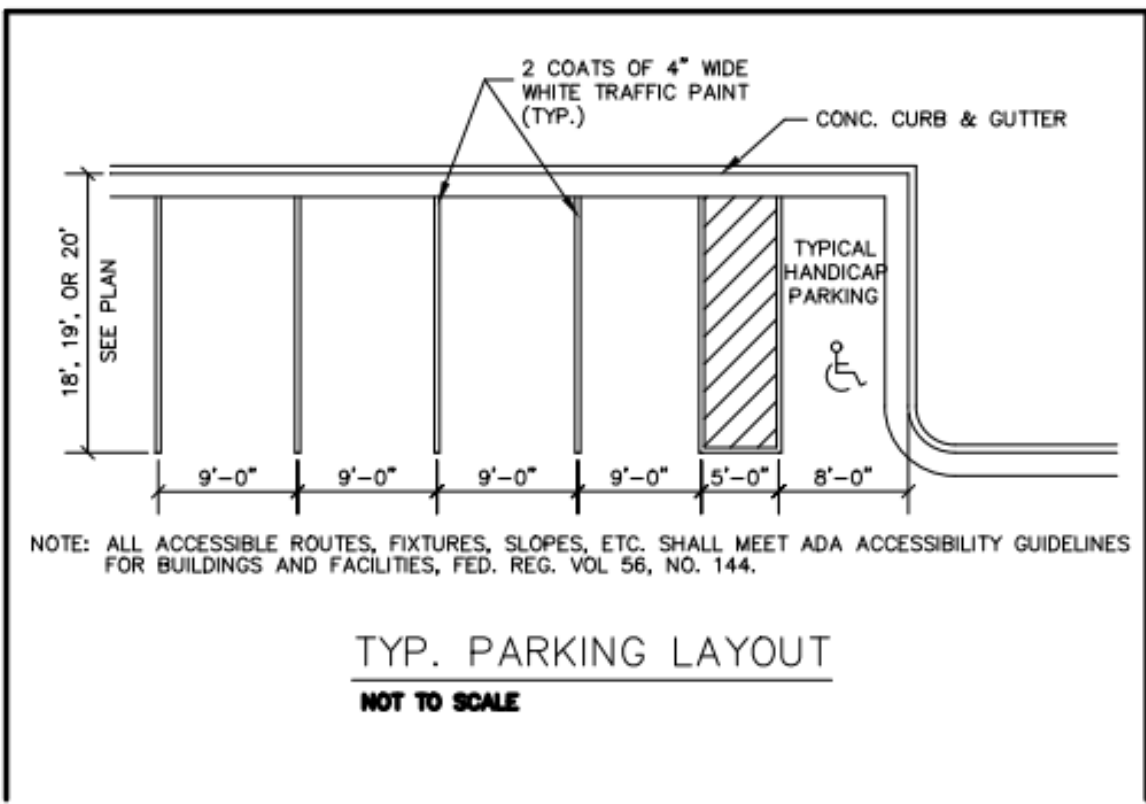


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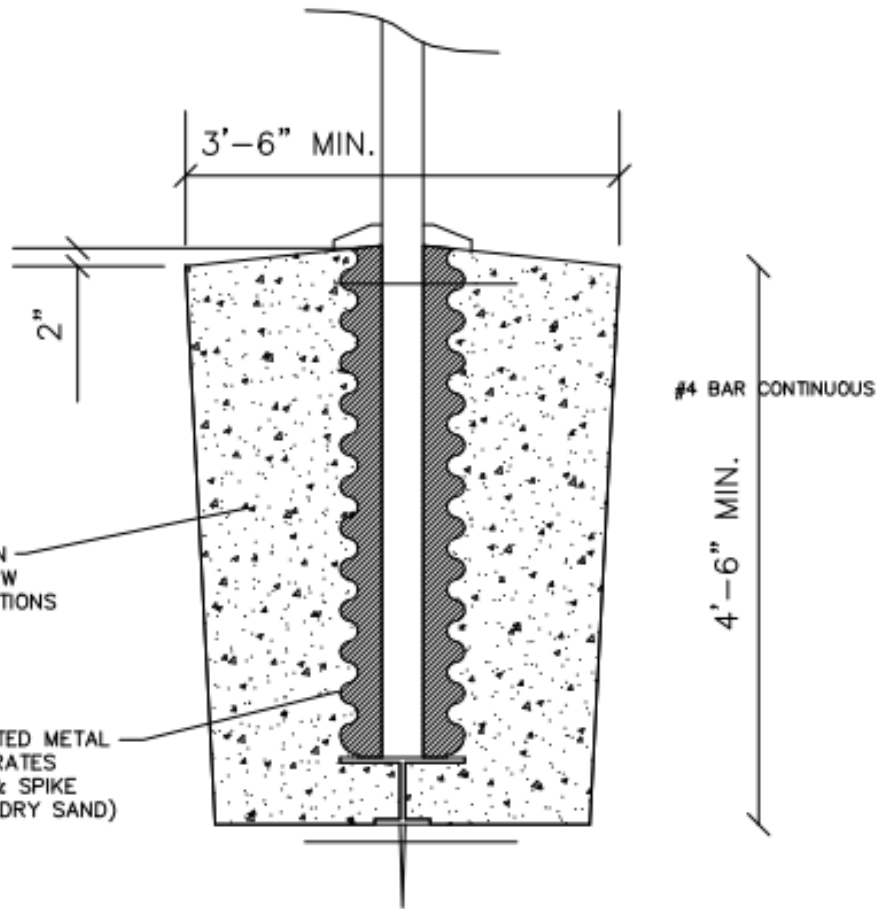
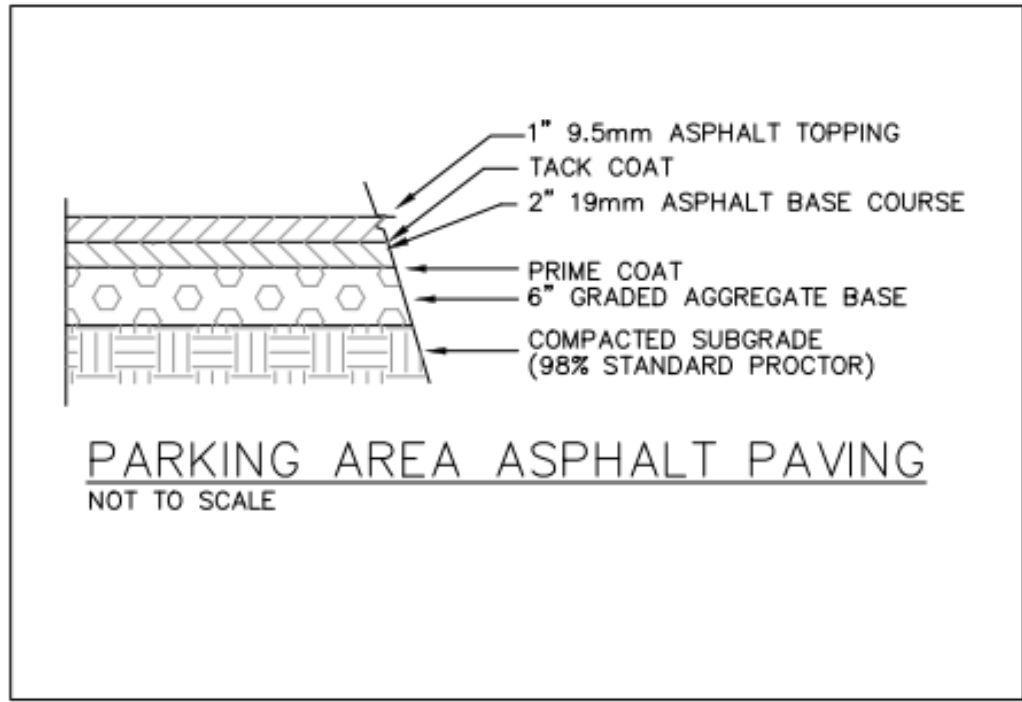
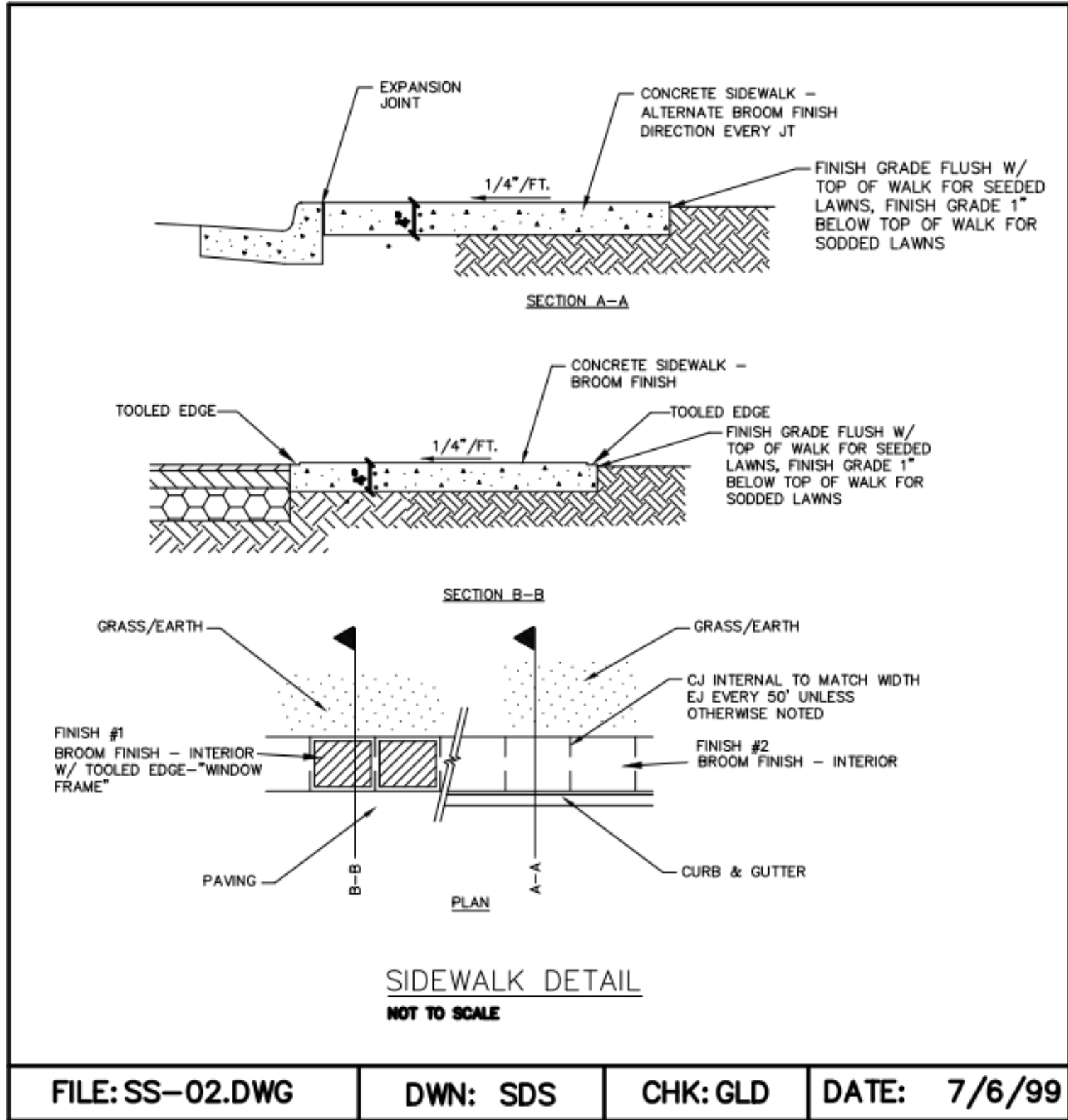
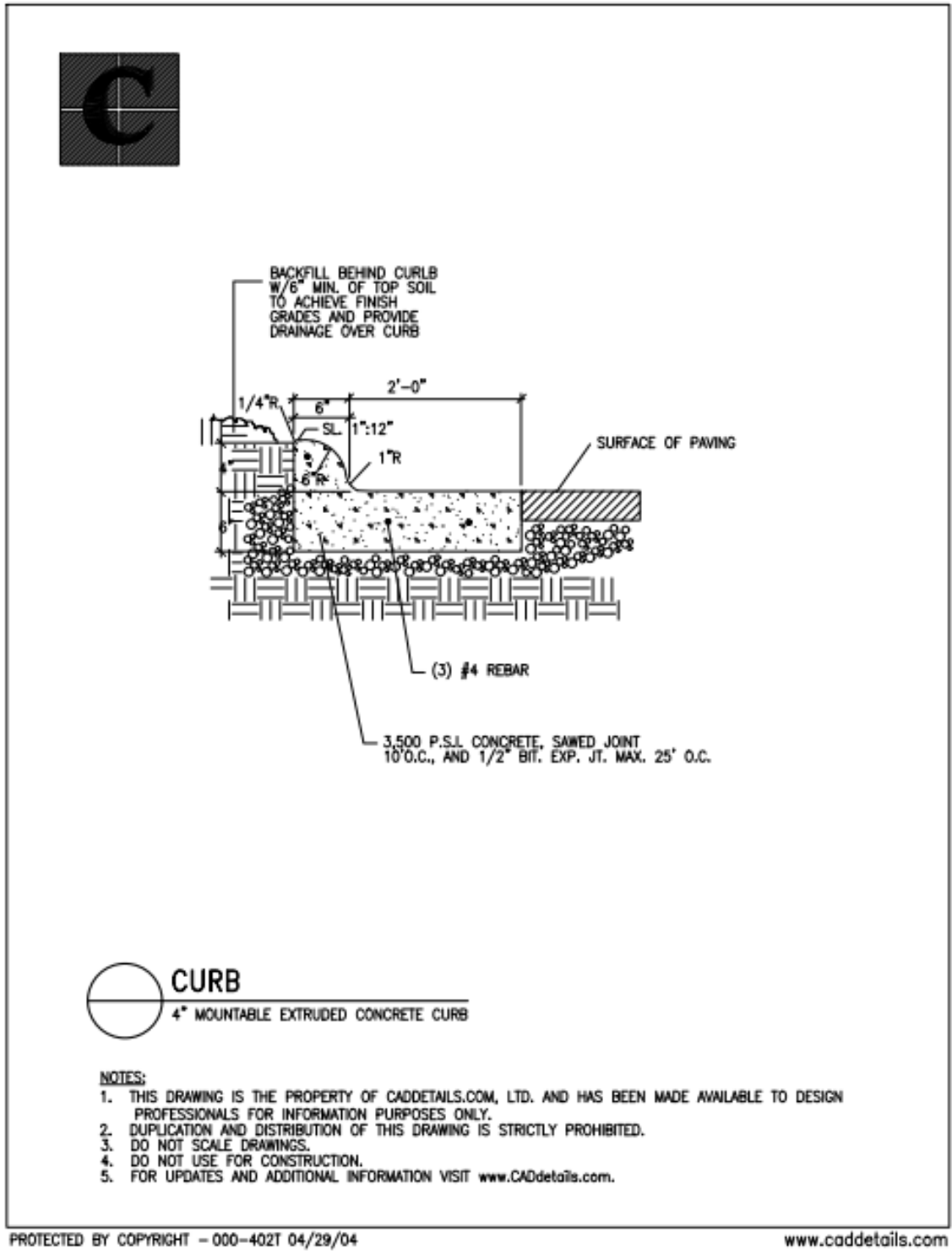
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J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773
TEL (813) 545.5128
LOCAL (813) 545.5128
FAX (813) 545.5128
www.jmsmithengineering.com

J M Smith Engineering, LLC

1830. 1834 & 1835 Flightline Road Wilmington, NC 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.

SHEET NUMBER
C8.0
OF

CERTIFICATION



02.05.2021

CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

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WILMINGTON
AIRCRAFT
STORAGE
HANGAR**

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

DETAILS

ISSUE

**CONSTRUCTION
DOCUMENTS**

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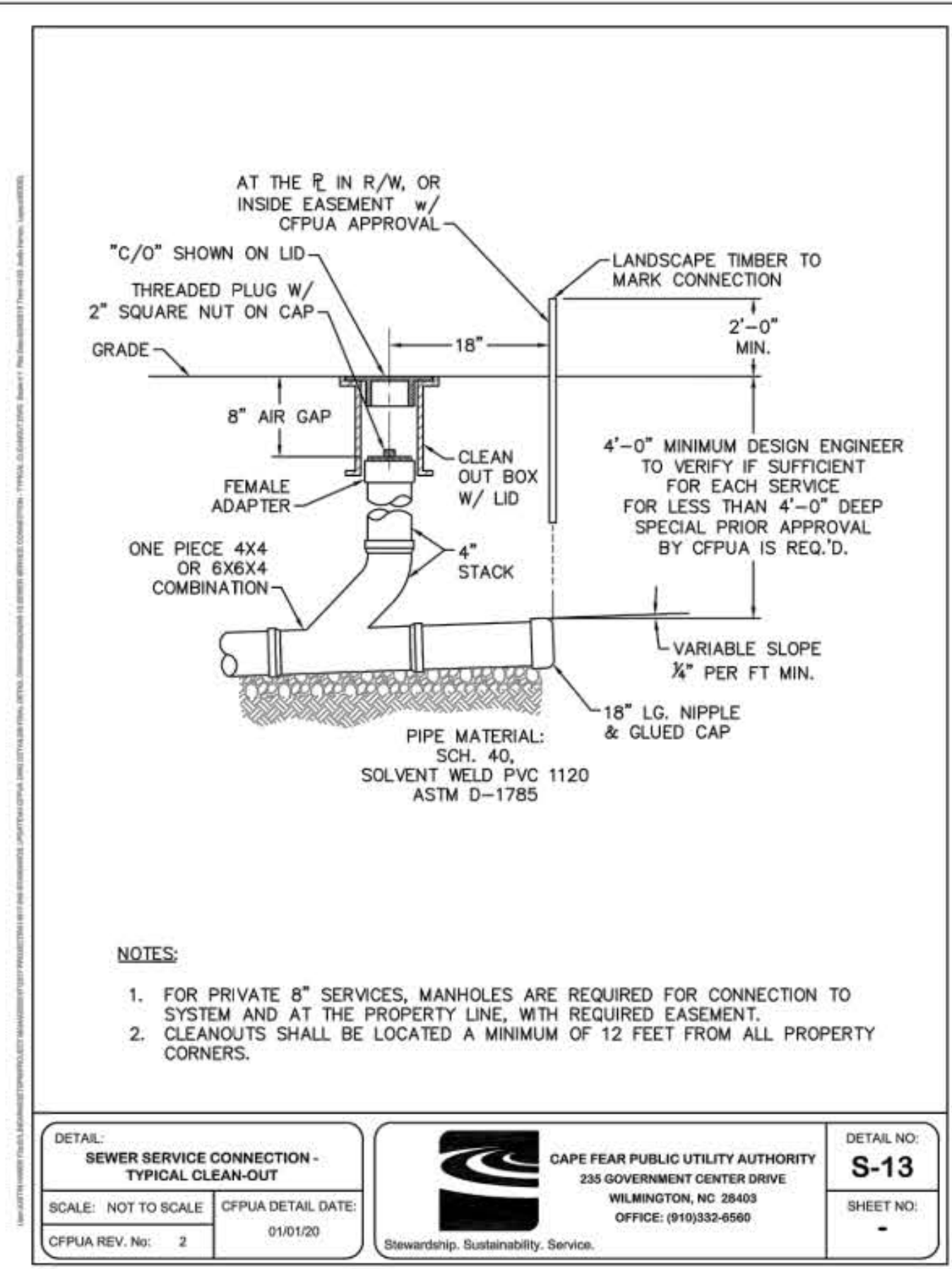
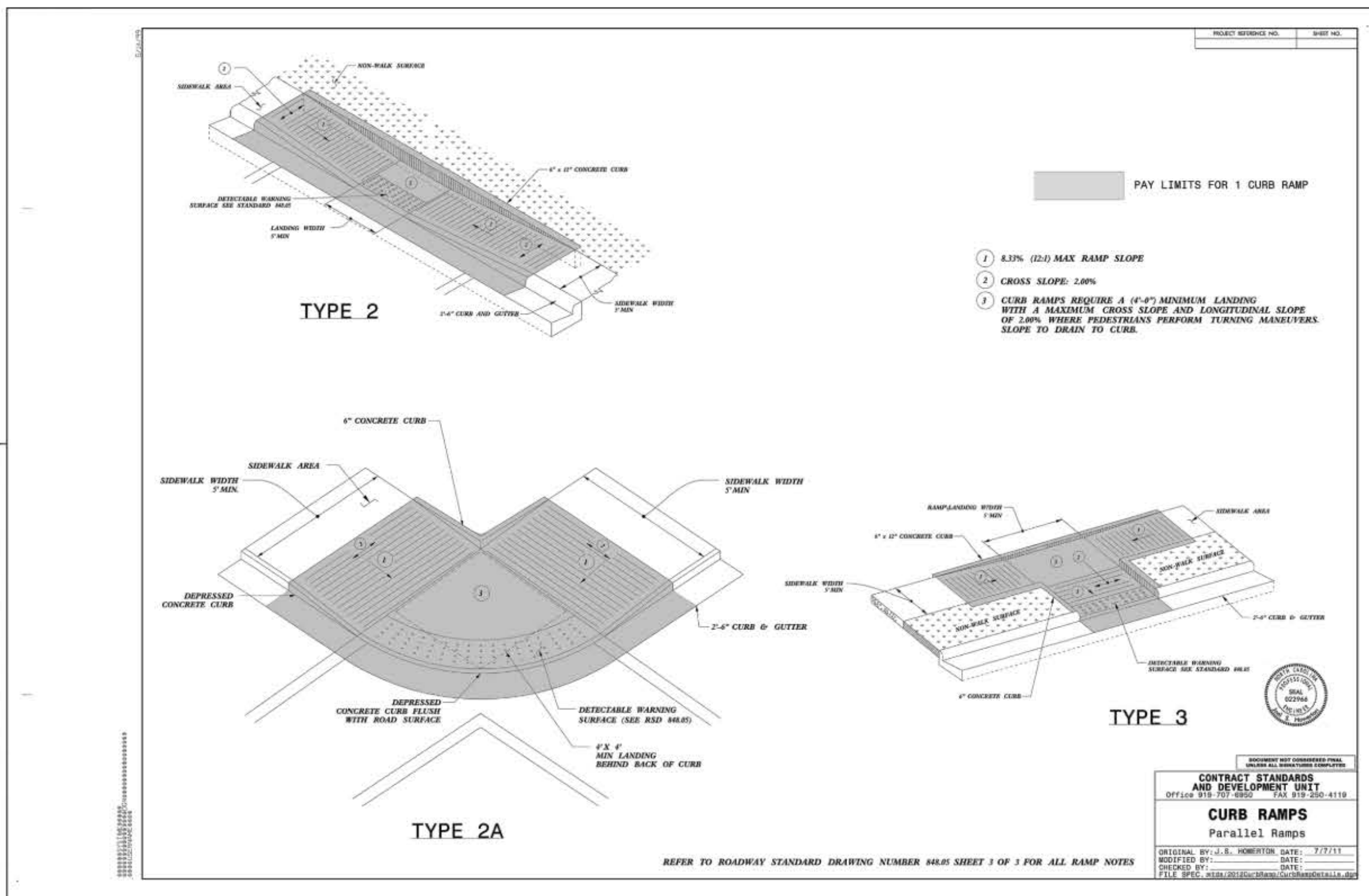
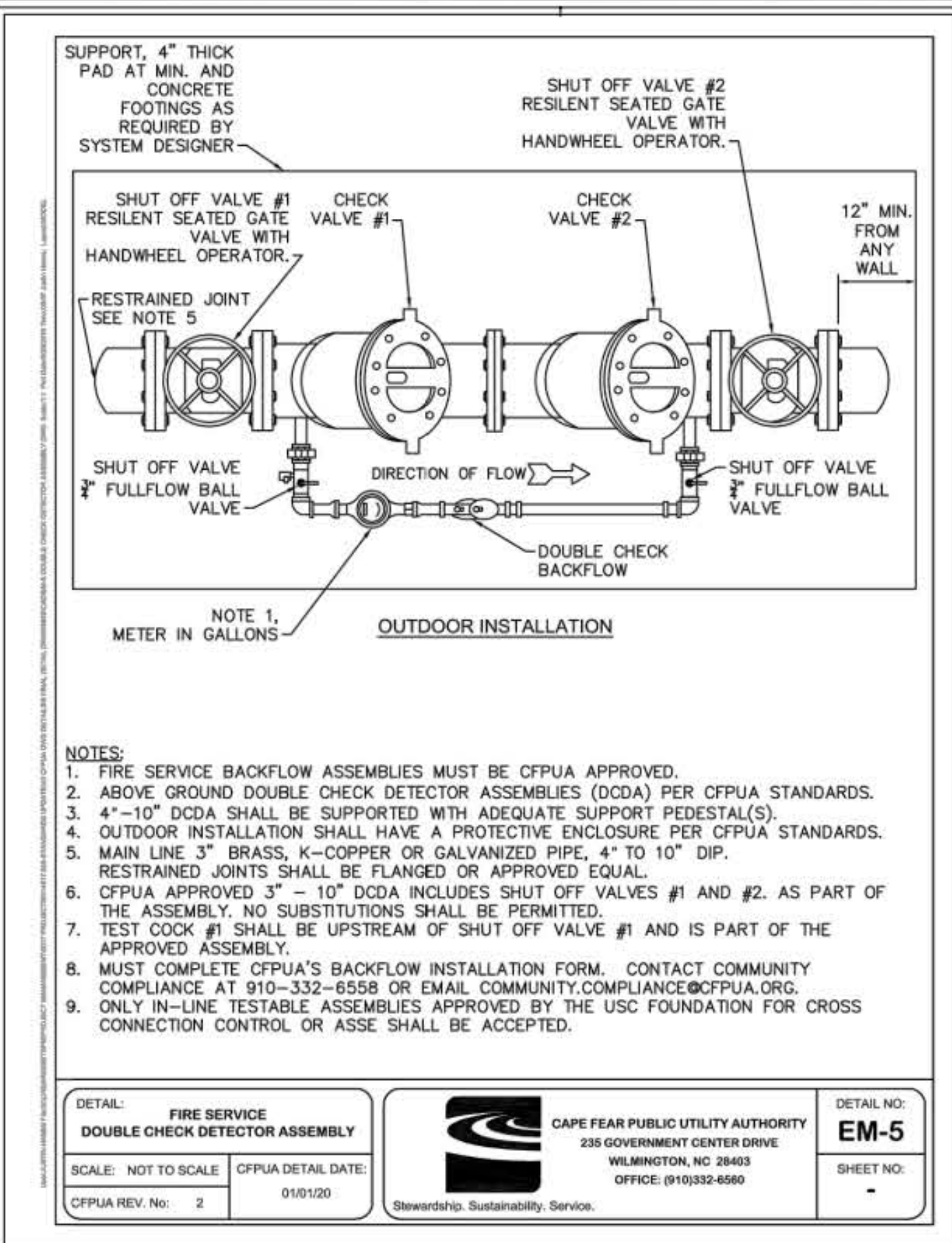
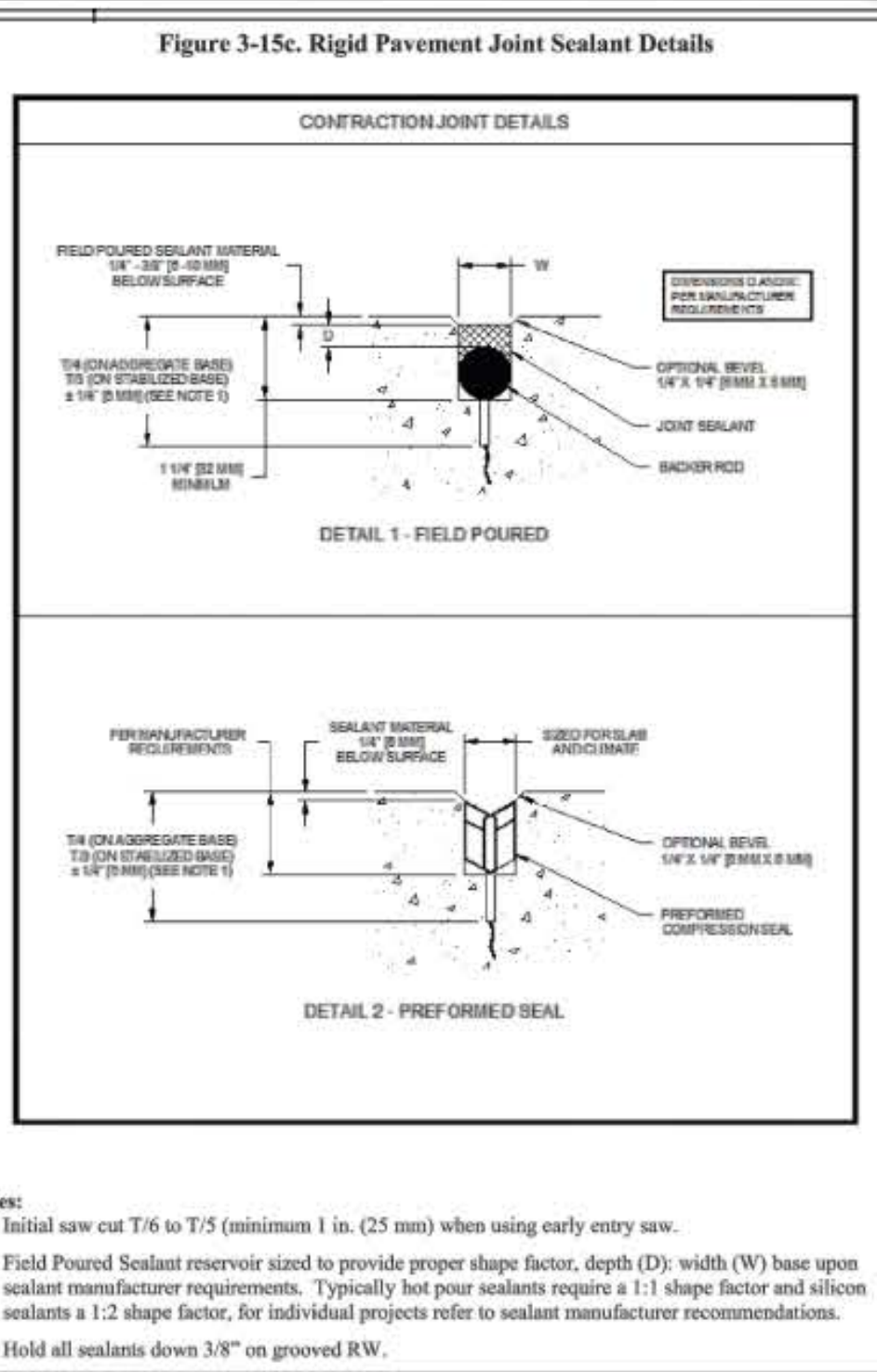
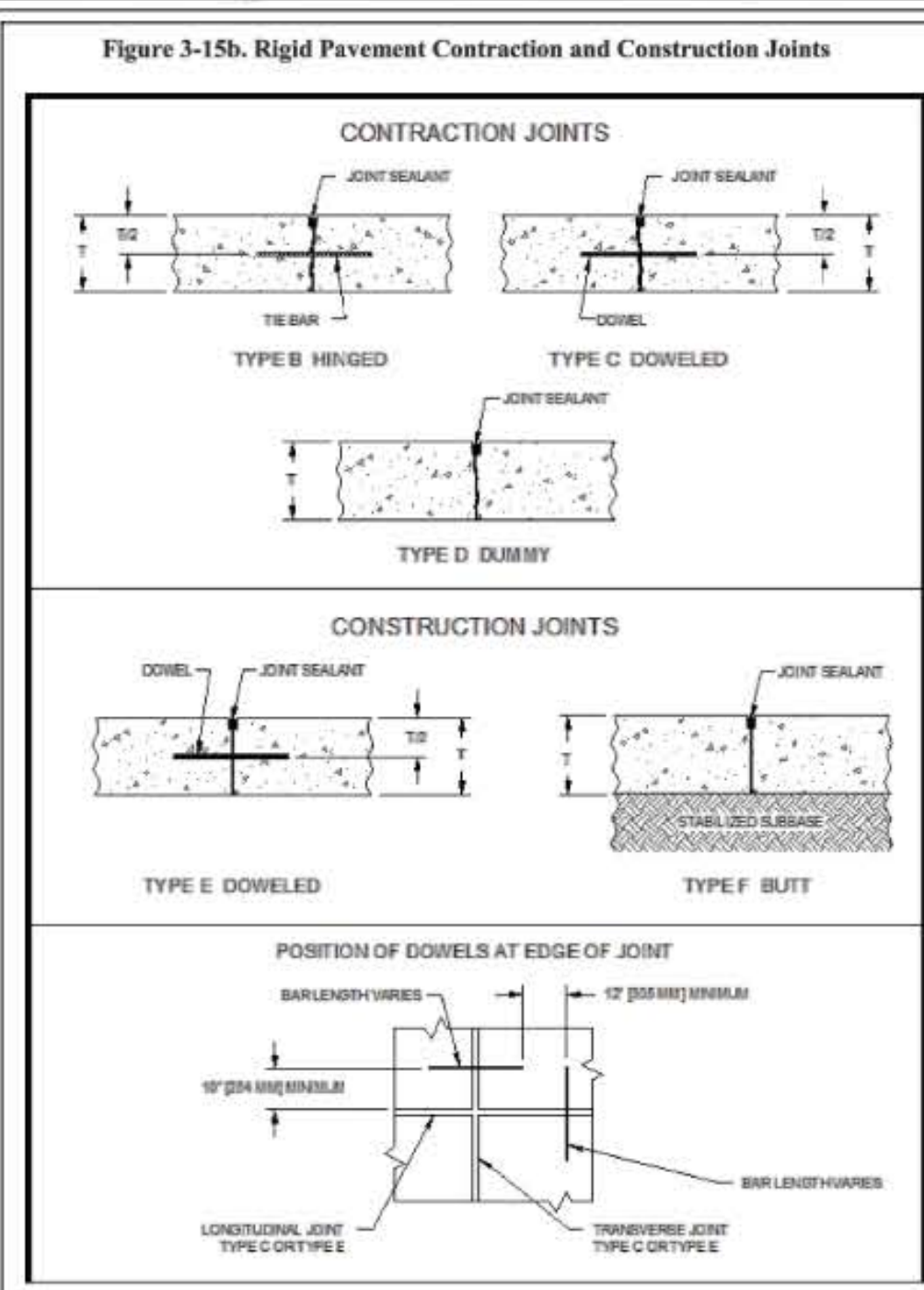
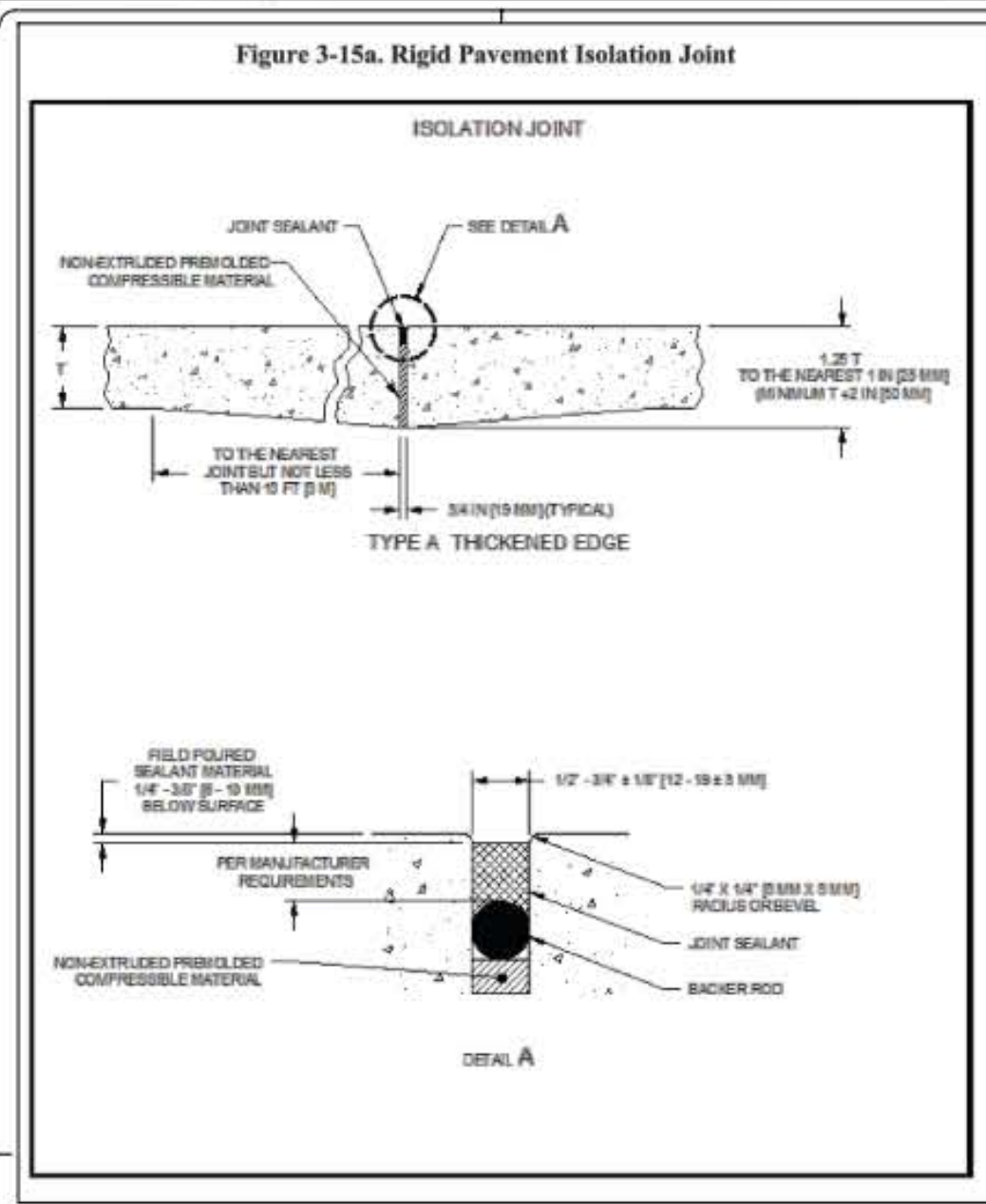
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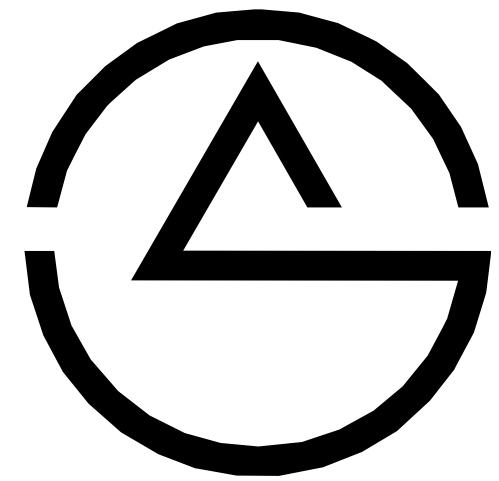
J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
102 EAST TARPON AVENUE
TARPON SPRINGS, FL 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331



J M Smith Engineering, LLC
1830, 1834 & 1835 Flightline Road Wilmington, NC 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.
SCALE: As Noted

DETAILS
1830, 1834 & 1835 Flightline Road Wilmington, NC 28405
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SHEET NUMBER
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SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FL 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331

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02.05.2021

CONSULTANTS

ARCHITECT OF RECORD

DANIEL L. EDGE
102 EAST TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER

JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER

STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5126

M/E/P ENGINEER OF RECORD

W. RONALD MCILVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.764.1472

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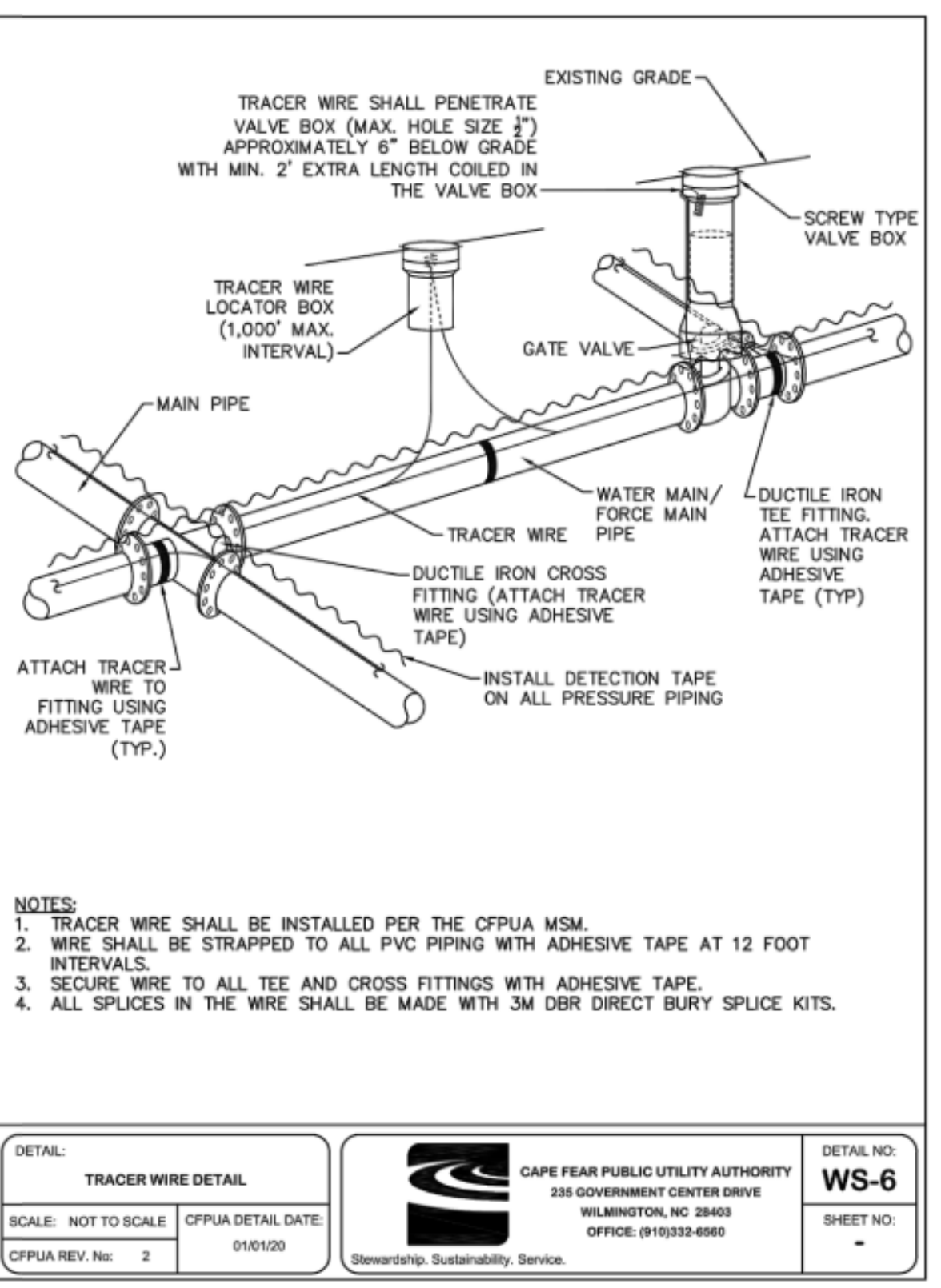
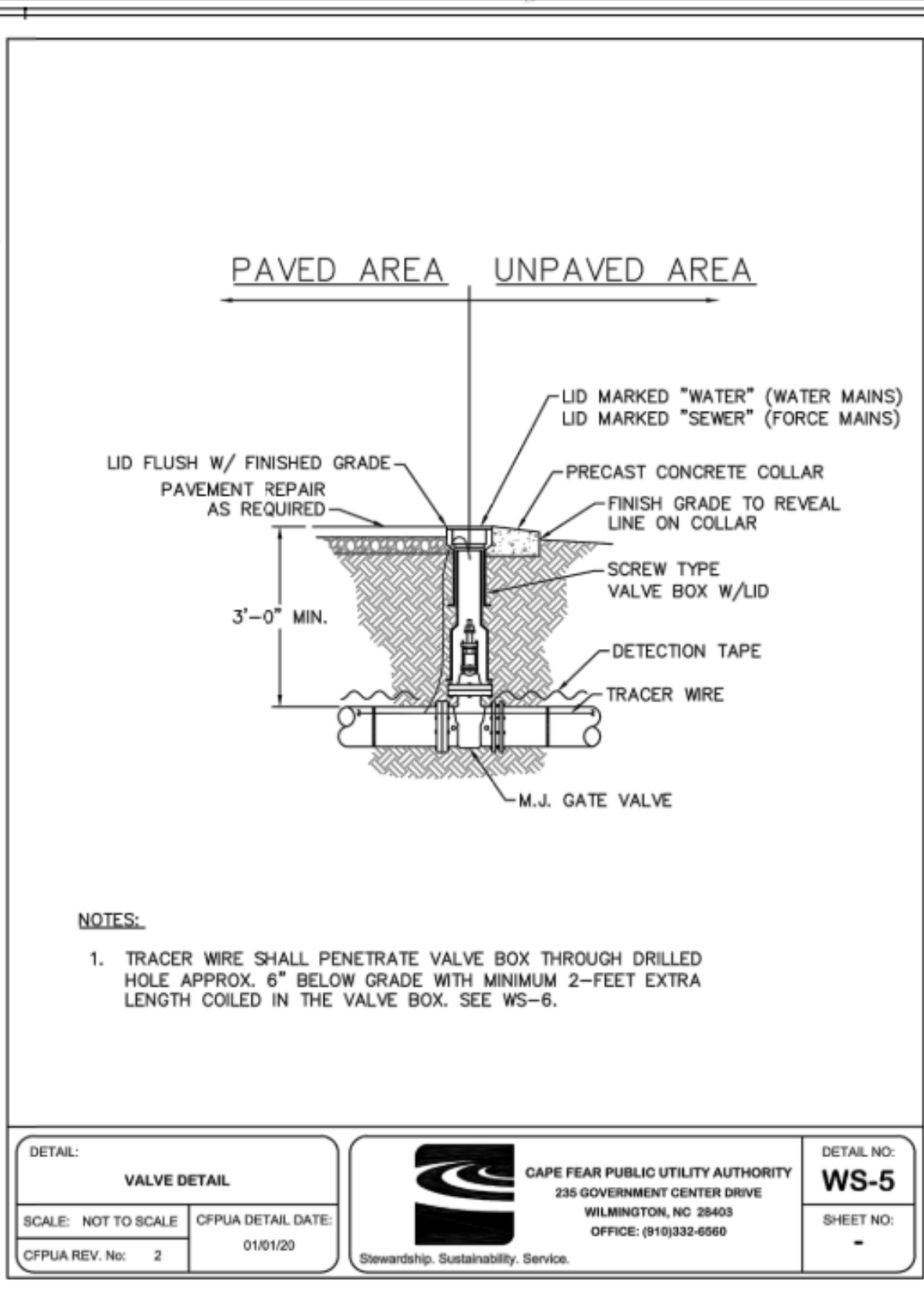
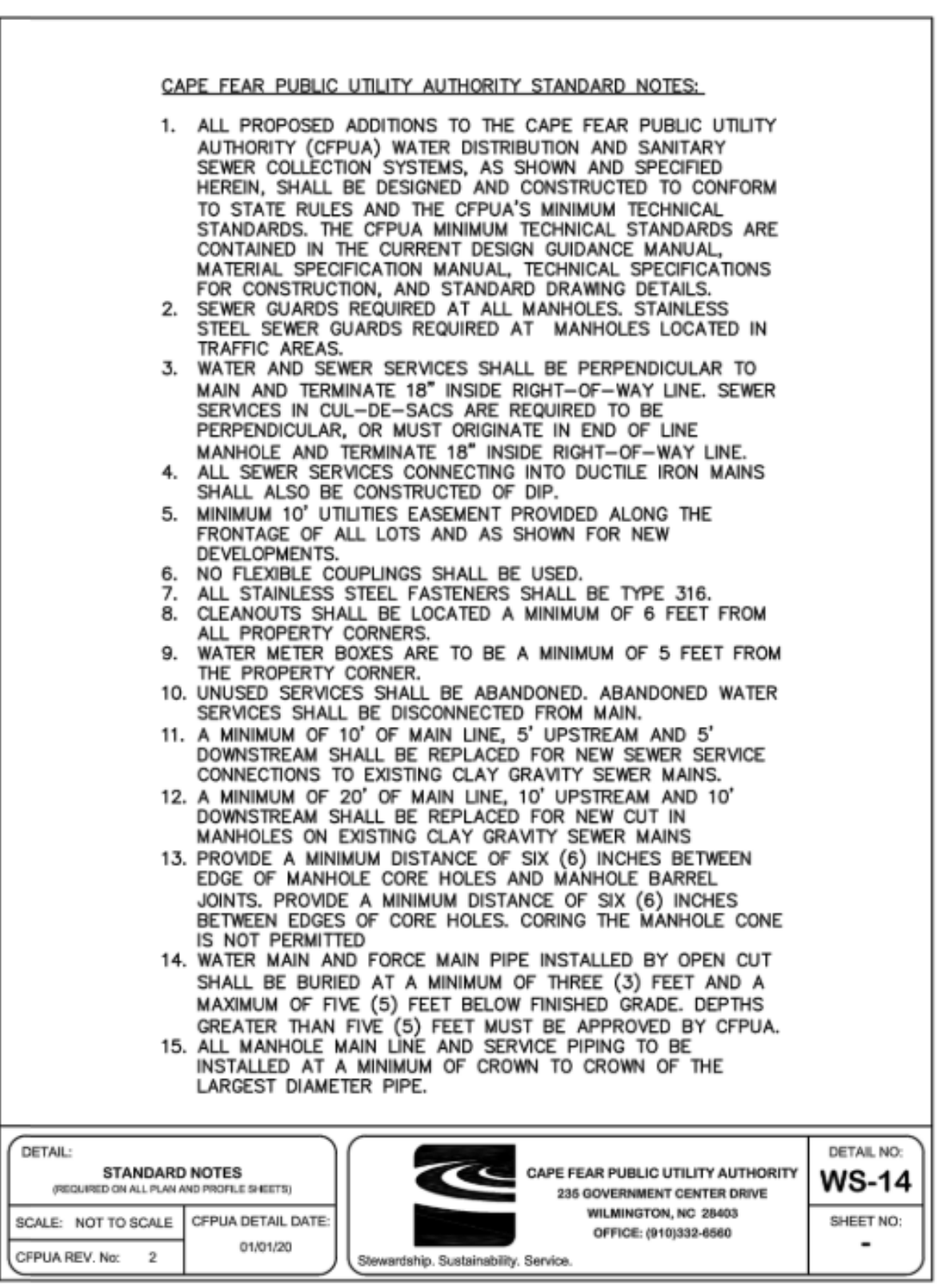
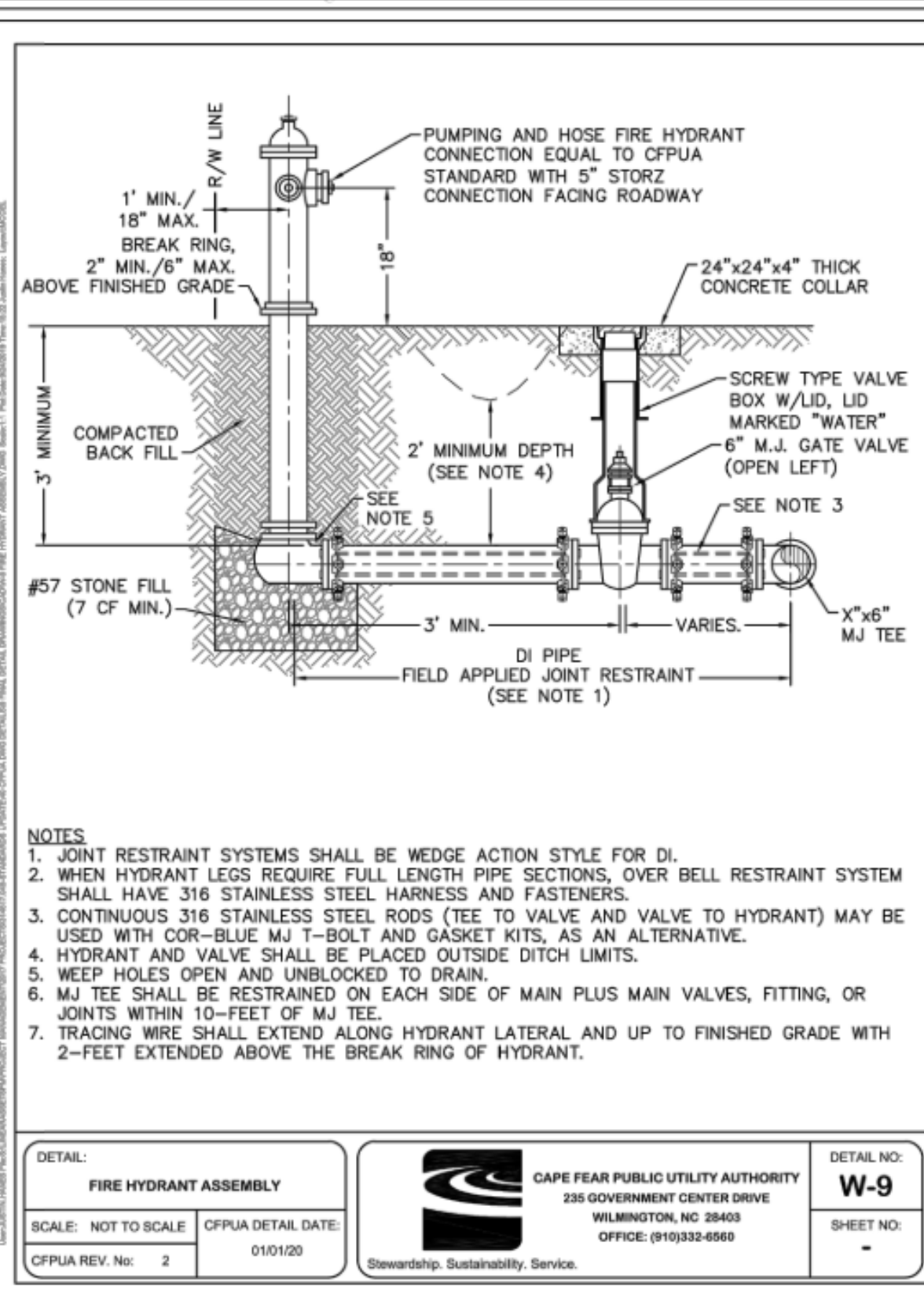
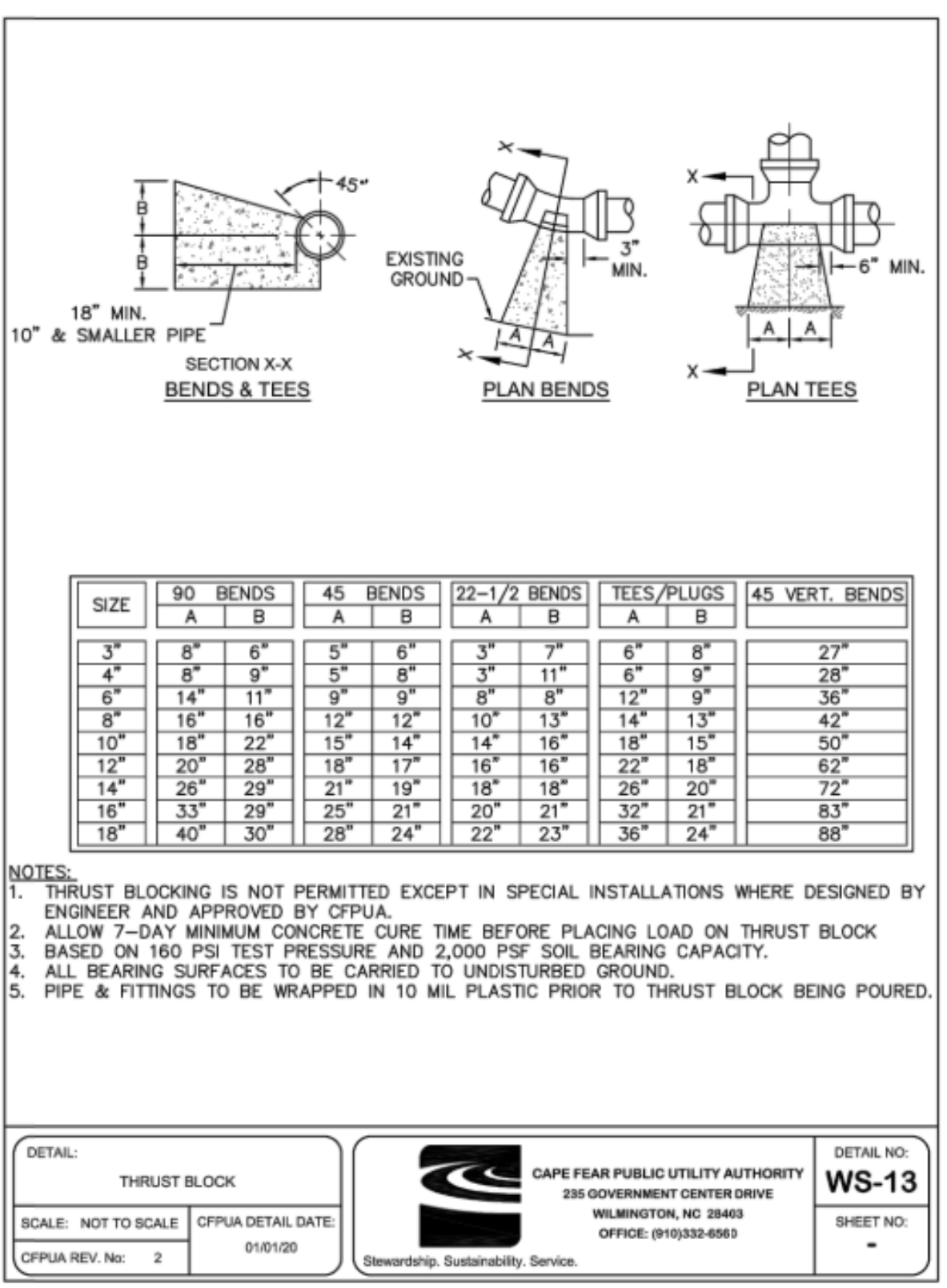
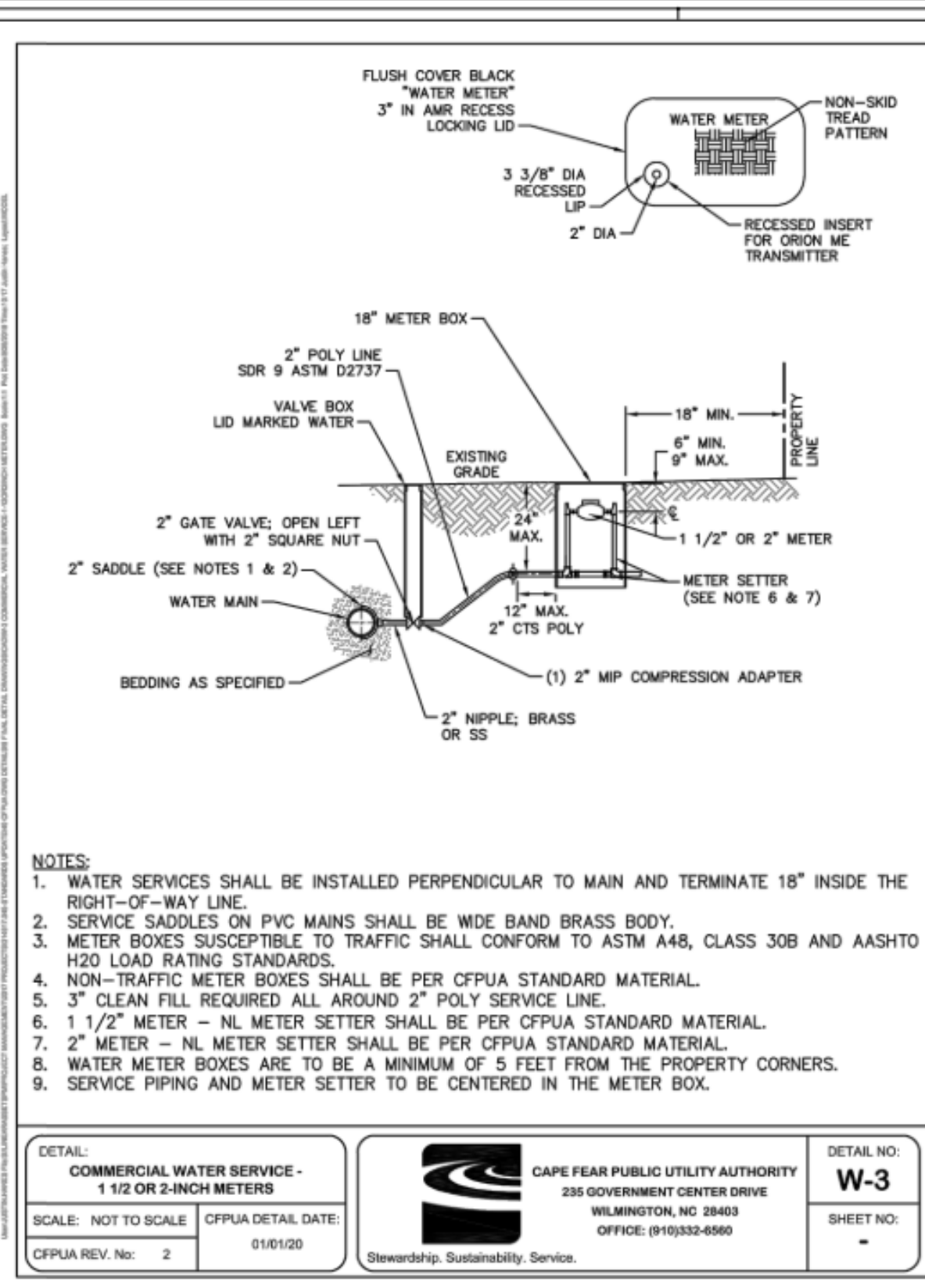
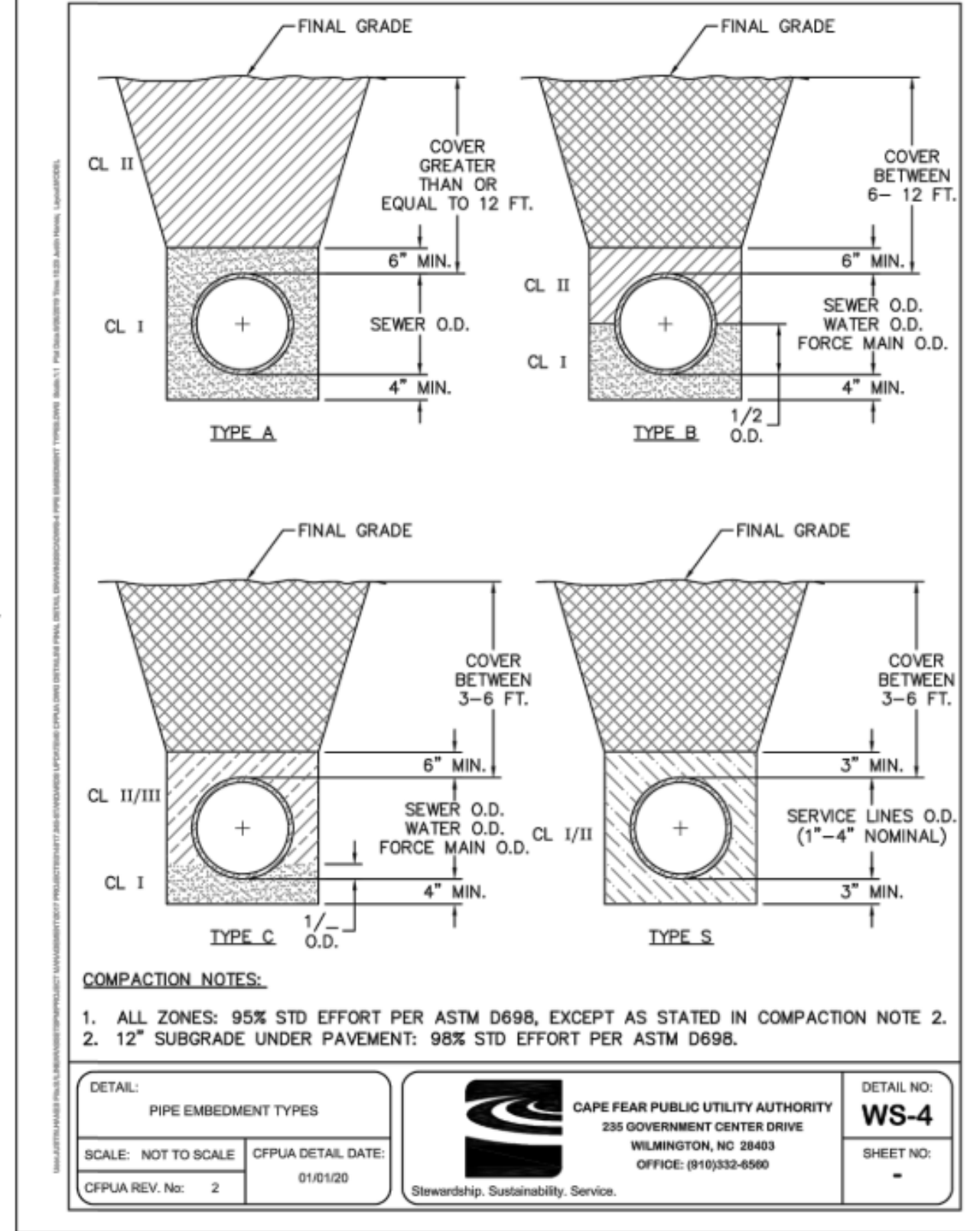
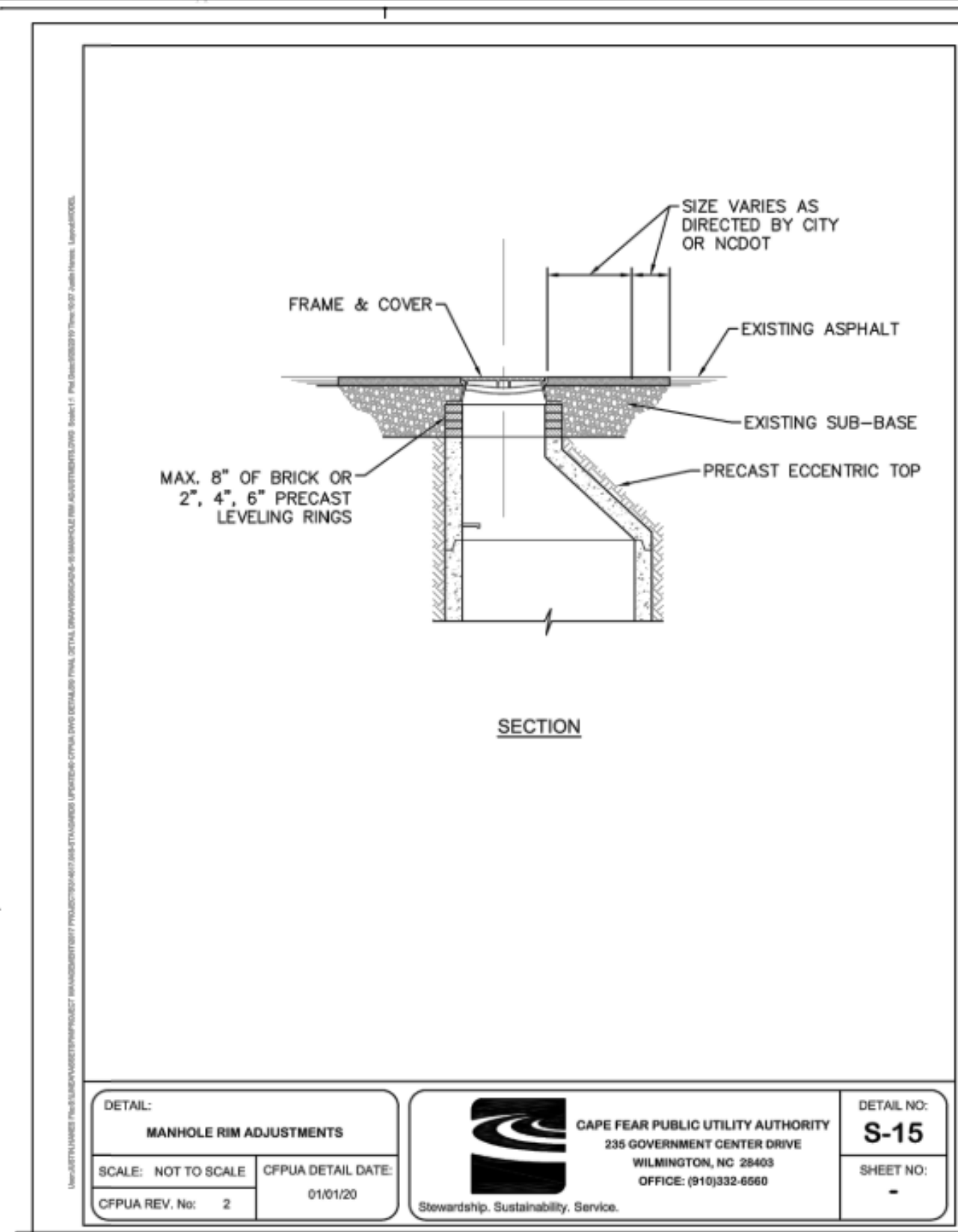
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J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
108 PRINCETON CAMP DR
CORNELIA, GA 30531
TEL (678) 245-3000
LOCAL (706) 894-3371
FAX (678) 267-3731
www.jmsmithengineering.com

REVISIONS

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1830, 1834 & 1835 Flightline Road Wilmington, GA 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.

SHEET NUMBER
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OF

SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
SANDBARARCH.COM
AA 26003331

CERTIFICATION

02.05.2021

CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLIVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

**AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR**

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

DETAILS

ISSUE

**CONSTRUCTION
DOCUMENTS**

ISSUE DATE

10.12.2020

ISSUE REVISIONS

No.	Date	Description
1	1/15/2021	PERMIT COMMENTS

DRAWING NUMBER

C8.2

For Outdoor Installations

Job Name

Contractor

Job Location

Approval

Engineer

Contractor's P.O. No.

Approval

Representative

WattsBox

Insulated Enclosures

Specifications

Backflow prevention assemblies subjected to potential freezing conditions shall be protected with the WattsBox enclosure as shown.

The enclosure shall be of reinforced aluminum construction, providing access through doors for testing/certification purposes. It must also be totally removable for maintenance purposes. The enclosure shall be structurally lined with a uniaxial, non-wicking insulation consisting of a monolithic laminate or applied by spray. It shall contain a thermostatically controlled heat source mounted to the interior wall or on the backflow preventer to provide protection to -30°F. No wood or "particle board" shall be allowed in assembly. Insulation mounted with glue will be cause for rejection. Power source will be protected with a ground fault circuit interrupting receptacle, UL Standard 943, NEMA 3R, installed by others, inside the box.

The enclosure shall contain drain coverings sized to accommodate the maximum discharge of the reduced pressure zone assembly. Drain openings shall open to discharge under the most severe conditions. These openings are protected against intrusion of other wind, debris or animals. The enclosure is provided with means of permanent anchor and "lockable" access doors and/or lid to prohibit theft or vandalism.

All "wet" portions of the backflow prevention assembly shall be protected within the enclosure. Fire department hose connections and GFI indicating valve handles shall be maintained outside the enclosure.

The enclosure shall be factory assembled and delivered to the site ready to install with no drilling, sawing or nailing of enclosures required on site. The enclosure and the backflow preventer shall be covered by a single warranty policy. Enclosure shall be a Watts Series WattsBox.

Features

Designed to eliminate valve vault entry requirements of CSA or confined Space Ruling 29CFR 1910.146.

Single source Watts Regulator warranty of the enclosure, the backflow preventer, and the heat source.

Allows for the installation of the backflow preventer "at the service connection" in accordance with AWWA Standards.

Is specifically designed to meet NFPA guidelines.

The enclosure provides freeze protection to maintain the water supply to the employer's fire protection system. (NFPA 3-3.1.8 and 3.6.1.3.2).

Strategically placed doors provide access to the backflow prevention assembly for testing and repair without removal of the entire unit.

Can be temporarily removed for replacement of the backflow preventer without the need for replacement of freeze protection services.

An economical alternative to expensive retrofit installations.

Eliminates potential drainage constraints in existing enclosures rooms.

Saves valuable floor space.

Standardized furnished with thermostatically controlled heat source for freeze protection down to -30°F.

Contains no structural wood or particle board for long life.

Easy installation aluminum enclosures feature interlocking panels which eliminate the use of screws during assembly.

Can be temporarily removed for replacement of the backflow preventer without the need for replacement of freeze protection services.

ASISE 1080 Certified (Consult factory for approved models)

NOTICE

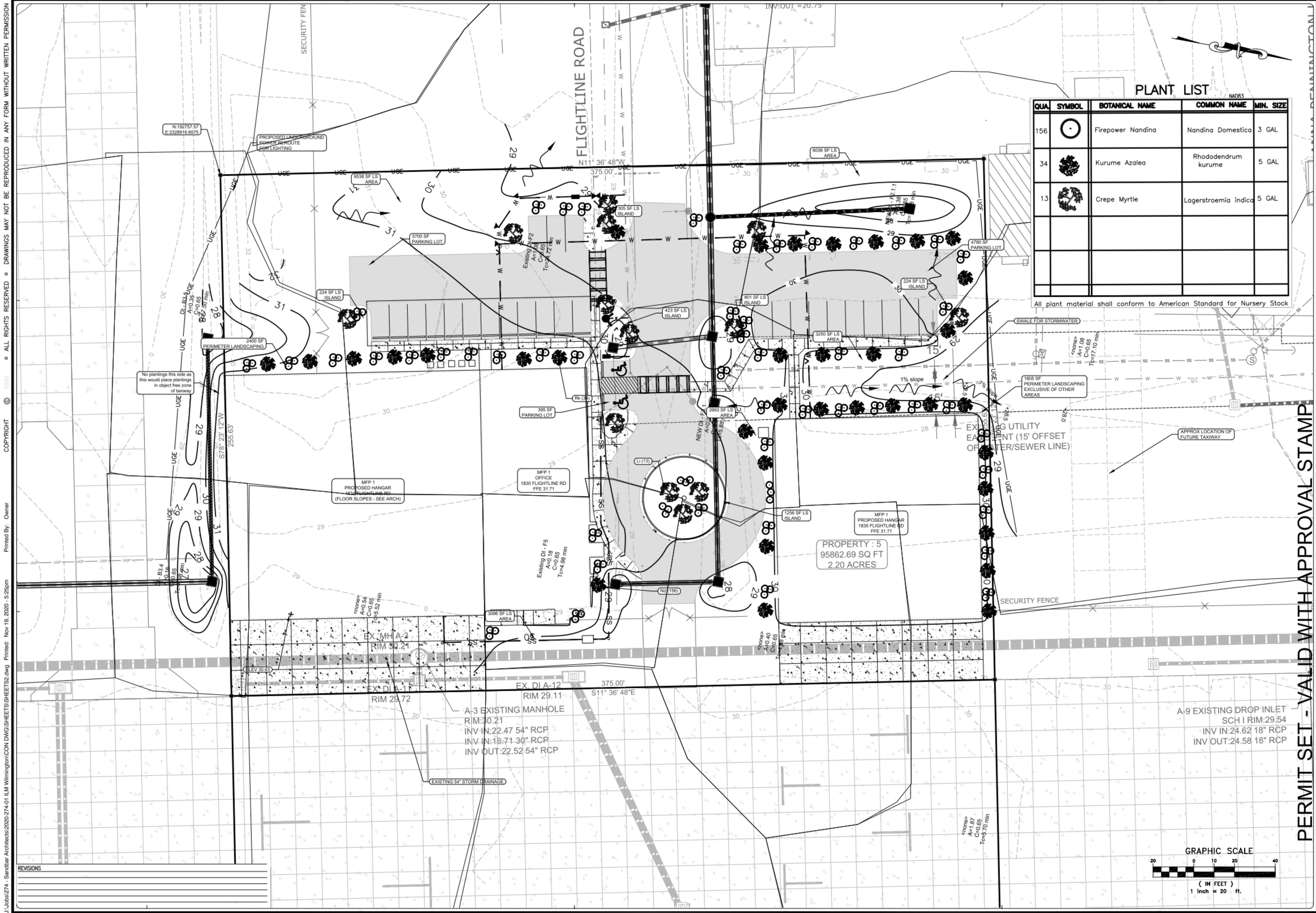
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

WATTS

Dimensions

(all enclosures are available less heat - contact factory or your local Watts representative for details)

FITS WATTS VALVES	WATTS MODEL #	OVERALLS	HEIGHT	WEIGHT	WALL THICKNESS
Discless					
Discless 1"	WB-1	18" x 11" x 22"	30W	30	28" x 20"
Discless 1 1/2"	WB-1.5	22" x 12" x 22"	30W	40	38" x 22"
Discless 2"	WB-2	33" x 21" x 25"	30W	80	44" x 32"
Discless 2 1/2"	WB-2.5	38" x 13" x 28"	30W	55	50" x 24"
Discless 3"	WB-3	48" x 18" x 38"	30W	25	19" x 27"
Discless 3 1/2"	WB-3.5	58" x 19" x 48"	30W	28	19" x 27"
Discless 4"	WB-4	68" x 24" x 58"	30W	30	21" x 33"
Discless 4 1/2"	WB-4.5	78" x 24" x 68"	30W	35	21" x 33"
Discless 5"	WB-5	88" x 29" x 78"	30W	40	28" x 38"
Discless 6"	WB-6	98" x 34" x 88"	30W	45	38" x 48"
Discless 8"	WB-8	118" x 44" x 108"	30W	50	48" x 58"
Discless 10"	WB-10	138" x 54" x 128"	30W	55	58" x 68"
Discless 12"	WB-12	158" x 64" x 148"	30W	60	68" x 78"
Discless 14"	WB-14	178" x 74" x 168"	30W	65	78" x 88"
Discless 16"	WB-16	198" x 84" x 188"	30W	70	88" x 98"
Discless 18"	WB-18	218" x 94" x 208"	30W	75	98" x 108"
Discless 20"	WB-20	238" x 104" x 228"	30W	80	108" x 118"
Discless 22"	WB-22	258" x 114" x 248"	30W	85	118" x 128"
Discless 24"	WB-24	278" x 124" x 268"	30W	90	128" x 138"
Discless 26"	WB-26	298" x 134" x 288"	30W	95	138" x 148"
Discless 28"	WB-28	318" x 144" x 308"	30W	100	148" x 158"
Discless 30"	WB-30	338" x 154" x 328"	30W	105	158" x 168"
Discless 32"	WB-32	358" x 164" x 348"	30W	110	168" x 178"
Discless 34"	WB-34	378" x 174" x 368"	30W	115	178" x 188"
Discless 36"	WB-36	398" x 184" x 388"	30W	120	188" x 198"
Discless 38"	WB-38	418" x 194" x 408"	30W	125	198" x 208"
Discless 40"	WB-40	438" x 204" x 428"	30W	130	208" x 218"
Discless 42"	WB-42	458" x 214" x 448"	30W	135	218" x 228"
Discless 44"	WB-44	478" x 224" x 468"	30W	140	228" x 238"
Discless 46"	WB-46	498" x 234" x 488"	30W	145	238" x 248"
Discless 48"	WB-48	518" x 244" x 508"	30W	150	248" x 258"
Discless 50"	WB-50	538" x 254" x 528"	30W	155	258" x 268"
Discless 52"	WB-52	558" x 264" x 548"	30W	160	268" x 278"
Discless 54"	WB-54	578" x 274" x 568"	30W	165	278" x 288"
Discless 56"	WB-56	598" x 284" x 588"	30W	170	288" x 298"
Discless 58"	WB-58	618" x 294" x 608"	30W	175	298" x 308"
Discless 60"	WB-60	638" x 304" x 628"	30W	180	308" x 318"
Discless 62"	WB-62	658" x 314" x 648"	30W	185	318" x 328"
Discless 64"	WB-64	678" x 324" x 668"	30W	190	328" x 338"
Discless 66"	WB-66	698" x 334" x 688"	30W	195	338" x 348"
Discless 68"	WB-68	718" x 344" x 708"	30W	200	348" x 358"
Discless 70"	WB-70	738" x 354" x 728"	30W	205	358" x 368"
Discless 72"	WB-72	758" x 364" x 748"	30W	210	368" x 378"
Discless 74"	WB-74	778" x 374" x 768"	30W	215	378" x 388"
Discless 76"	WB-76	798" x 384" x 788"	30W	220	388" x 398"
Discless 78"	WB-78	818" x 394" x 808"	30W	225	398" x 408"
Discless 80"	WB-80	838" x 404" x 828"	30W	230	408" x 418"
Discless 82"	WB-82	858" x 414" x 848"	30W	235	418" x 428"
Discless 84"	WB-84	878" x 424" x 868"	30W	240	428" x 438"
Discless 86"	WB-86	898" x 434" x 888"	30W	245	438" x 448"
Discless 88"	WB-88	918" x 444" x 908"	30W	250	448" x 458"
Discless 90"	WB-90	938" x 454" x 928"	30W	255	458" x 468"
Discless 92"	WB-92	958" x 464" x 948"	30W	260	468" x 478"
Discless 94"	WB-94	978" x 474" x 968"	30W	265	478" x 488"
Discless 96"	WB-96	998" x 484" x 988"	30W	270	488" x 498"
Discless 98"	WB-98	1018" x 494" x 1008"	30W	275	498" x 508"
Discless 100"	WB-100	1038" x 504" x 1028"	30W	280	508" x 518"
Discless 102"	WB-102	1058" x 514" x 1048"	30W	285	518" x 528"
Discless 104"	WB-104	1078" x 524" x 1068"	30W	290	528" x 538"
Discless 106"	WB-106	1098" x 534" x 1088"	30W	295	538" x 548"
Discless 108"	WB-108	1118" x 544" x 1108"	30W	300	548" x 558"
Discless 110"	WB-110	1138" x 554" x 1128"	30W	305	558" x 568"
Discless 112"	WB-112	1158" x 564" x 1148"	30W	310	568" x 578"
Discless 114"	WB-114	1178" x 574" x 1168"	30W	315	578" x 588"
Discless 116"	WB-116	1198" x 584" x 1188"	30W	320	588" x 598"
Discless 118"	WB-118	1218" x 594" x 1208"	30W	325	598" x 608"
Discless 120"	WB-120	1238" x 604" x 1228"	30W	330	608" x 618"
Discless 122"	WB-122	1258" x 614" x 1248"	30W	335	618" x 628"
Discless 124"	WB-124	1278" x 624" x 1268"	30W	340	628" x 638"
Discless 126"	WB-126	1298" x 634" x 1288"	30W	345	638" x 648"
Discless 128"	WB-128	1318" x 644" x 1308"	30W	350	648" x 658"
Discless 130"	WB-130	1338" x 654" x 1328"	30W	355	658" x 668"
Discless 132"	WB-132	1358" x 664" x 1348"	30W	360	668" x 678"
Discless 134"	WB-134	1378" x 674" x 1368"	30W	365	678" x 688"
Discless 136"	WB-136	1398" x 684" x 1388"	30W	370	688" x 698"
Discless 138"	WB-138	1418" x 694" x 1408"	30W	375	698" x 708"
Discless 140"	WB-140	1438" x 704" x 1428"	30W	380	708" x 718"
Discless 142"	WB-142	1458" x 714" x 1448"	30W	385	718" x 728"
Discless 144"	WB-144	1478" x 724" x 1468"	30W	390	728" x 738"
Discless 146"	WB-146	1498" x 734" x 1488"	30W	395	738" x 748"
Discless 148"	WB-148	1518" x 744" x 1508"	30W	400	748" x 758"
Discless 150"	WB-150	1538" x 754" x 1528"	30W	405	758" x 768"
Discless 152"	WB-152	1558" x 764" x 1548"	30W	410	768" x 778"
Discless 154"	WB-154	1578" x 774" x 1568"	30W	415	778" x 788"
Discless 156"	WB-156	1598" x 784" x 1588"	30W	420	788" x 798"
Discless 158"	WB-158	1618" x 794" x 1608"	30W	425	798" x 808"
Discless 160"	WB-160	1638" x 804" x 1628"	30W	430	808" x 818"
Discless 162"	WB-162	1658" x 814" x 1648"	30W	435	818" x 828"
Discless 164"	WB-164	1678" x 824" x 1668"	30W	440	828" x 838"
Discless 166"	WB-166	1698" x 834" x 1688"	30W	445	838" x 848"
Discless 168"	WB-168	1718" x 844" x 1708"	30W	450	848" x 858"
Discless 170"	WB-170	1738" x 854" x 1728"	30W	455	858" x 868"
Discless 172"	WB-172	1758" x 864" x 1748"	30W	460	868" x 878"
Discless 174"	WB-174	1778" x 874" x 1768"	30W	465	878" x 888"
Discless 176"	WB-176	1798" x 884" x 1788"	30W	470	888" x 898"
Discless 178"	WB-178	1818" x 894" x 1808"	30W	475	898" x 908"
Discless 180"	WB-180	1838" x 904" x 1828"	30W	480	908" x 918"
Discless 182"	WB-182	1858" x 914" x 1848"	30W	485	918" x 928"
Discless 184"	WB-184	1878" x 924" x 1868"	30W	490	928" x 938"
Discless 186"	WB-186	1898" x 934" x 1888"	30W	495	938" x 948"
Discless 188"	WB-188	1918" x 944" x 1908"	30W	500	948" x 958"
Discless 190"	WB-190	1938" x 954" x 1928"	30W	505	958" x 968"
Discless 192"	WB-192	1958" x 964" x 1948"	30W	510	968" x 978"
Discless 194"	WB-194	1978" x 974" x 1968"	30W	515	978" x 988"
Discless 196"	WB-196	1998" x 984" x 1988"	30W	520	988" x 998"
Discless 198"	WB-198	2018" x 994" x 2008"	30W	525	998" x 1008"
Discless 200"	WB-200	2038" x 1004" x 2028"	30W	530	1008" x 1018"
Discless 202"	WB-202	2058" x 1014" x 2048"	30W	535	1018" x 1028"
Discless 204"	WB-204	2078" x 1024" x 2068"	30W	540	1028" x 1038"
Discless 206"	WB-206	2098" x 1034" x 2088"	30W	545	1038" x 1048"
Discless 208"	WB-208	2118" x 1044" x 2108"	30W	550	1048" x 1058"
Discless 210"	WB-210	2138" x 1054" x 2128"	30W	555	1058" x 1068"
Discless 212"	WB-212	2158" x 1064" x 2148"	30W	560	1068" x 1078"
Discless 214"	WB-214	2178" x 1074" x 2168"	30W	565	1078" x 1088"
Discless 216"	WB-216	2198" x 1084" x 2188"	30W	570	1088" x 1098"
Discless 218"	WB-218	2218" x 1094" x 2208"	30W	575	1098" x 1108"
Discless 220"	WB-220	2238" x 1104" x 2228"	30W	580	1108" x 1118"
Discless 222"	WB-222	2258" x 1114" x 2248"	30W	585	1118" x 1128"
Discless 224"	WB-224	2278" x 1124" x 2268"	30W	590	1128" x 1138"
Discless 226"	WB-226	2298" x 1134" x 2288"	30W	595	1138" x 1148"
Discless 228"	WB-228	2318" x 1144" x 2308"	30W	600	1148" x 1158"
Discless 230"	WB-230	2338" x 1154" x 2328"	30W	605	1158" x 1168"
Discless 232"	WB-232	2358" x 1164" x 2348"	30W	610	1168" x 1178"
Discless 234"	WB-234	2378" x 1174" x 2368"	30W	615	1178" x 1188"
Discless 236"	WB-236	2398" x 1184" x 2388"	30W	620	1188" x 1198"
Discless 238"	WB-238	2418" x 1194" x 2408"	30W	625	1198" x 1208"
Discless 240"	WB-240	2438" x 1204" x 2428"	30W	630	1208" x 1218"
Discless 242"	WB-242	2458" x 1214" x 2448"	30W	635	1218" x 1228"
Discless 244"	WB-244	2478" x 1224" x 2468"	30W	640	1228" x 1238"
Discless 246"	WB-246	2498" x 1234" x 2488"	30W	645	1238" x 1248"
Discless 248"	WB-248	2518" x 1244" x 2508"	30W	650	1248" x 1258"
Discless 250"	WB-250	2538" x 1254" x 2528"	30W	655	1258" x 1268"
Discless 252"	WB-252	2558" x 1264" x 2548"	30W	660	1268" x 1278"
Discless 254"	WB-254	2578" x 1274" x 2568"	30W	665	1278" x 1288"
Discless 256"	WB-256	2598" x 1284" x 2588"	30W	670	1288" x 1298"
Discless 258"	WB-258	2618" x 1294" x 2608"	30W	675	1298" x 1308"
Discless 260"	WB-260	2638" x 1304" x 2628"	30W	680	1308" x 1318"
Discless 262"	WB-262	2658" x 1314" x 2648"	30W	685	1318" x 1328"
Discless 264"	WB-264	2678" x 1324" x 2668"	30W	690	1328" x 1338"
Discless 266"	WB-266	2698" x 1334" x 2688"	30W	695	1338" x 1348"
Discless 268"	WB-268	2718" x 1344" x 2708"	30W	700	1348" x 1358"
Discless 270"	WB-270	2738" x 1354" x 2728"	30W	705	1358" x 1368"
Discless 272"	WB-272	2758" x 1364" x 2748"	30W	710	1368" x 1378"
Discless 274"	WB-274	2778" x 1374" x 2768"	30W	715	1378" x 1388"
Discless 276"	WB-276	2798" x 1384" x 2788"	30W	720	1388" x 1398"
Discless 278"	WB-278	2818" x 1394" x 2808"	30W	725	1398" x 1408"
Discless 280"	WB-280	2838" x 1404" x 2828"	30W	730	1408" x 1418



J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
POST OFFICE BOX 331
CORNELIA, GEORGIA 30531
TEL (706) 345-3000
LOCAL (706) 394-3331
FAX (706) 307-3731
www.jmsmithengineering.com

J M Smith Engineering LLC
ENGINEERS AND CONSULTANTS
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1830, 1834 & 1835 Flightline Road Wilmington, NC 28405
New Hanover County, NC
Marathon FBO DBA Aero Ctr Wilm.

LANDSCAPE PLAN

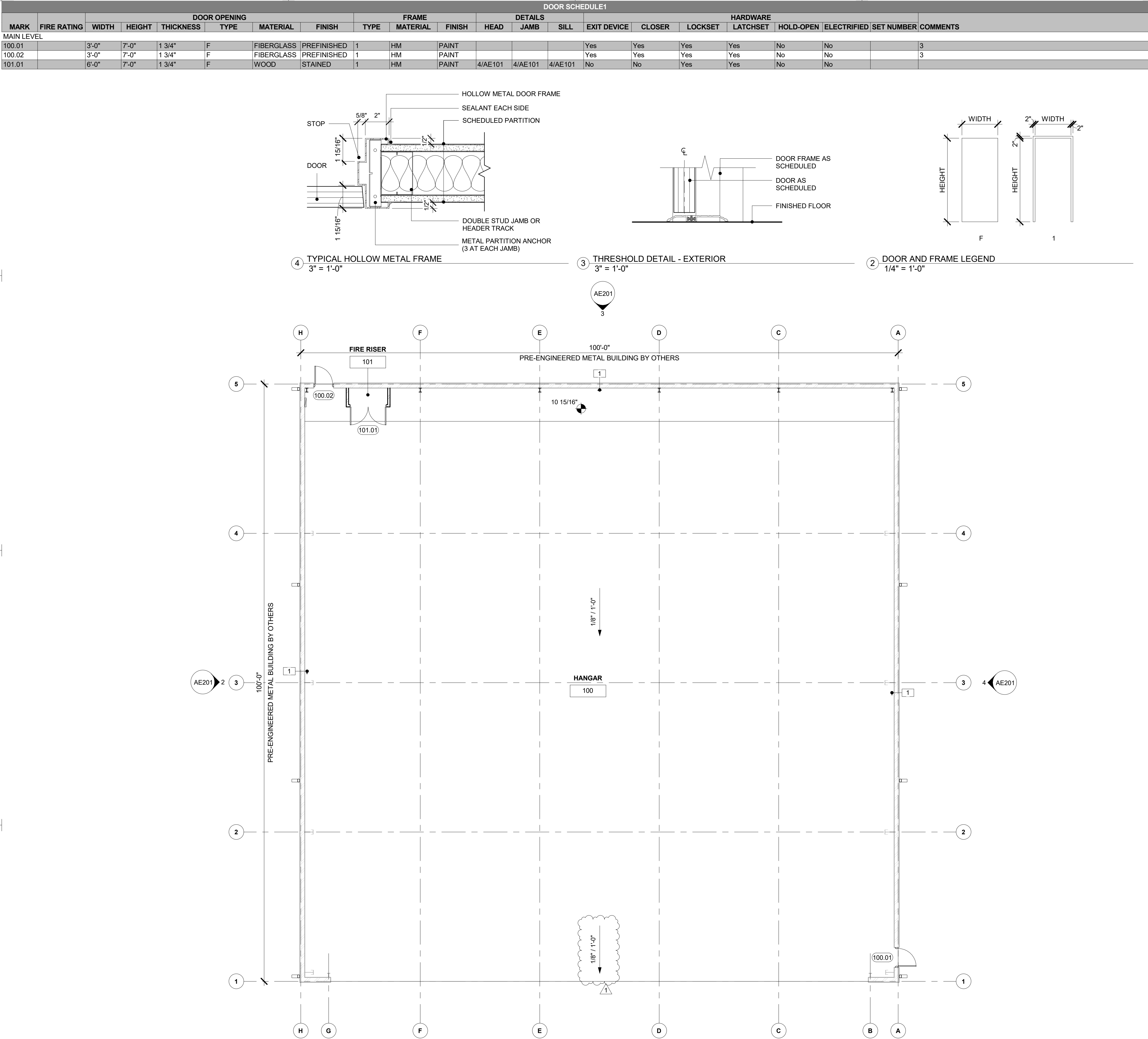
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1 MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"

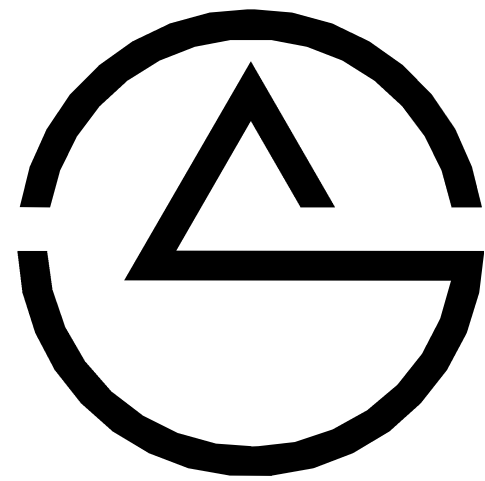


- GENERAL FLOOR PLAN NOTES
- 1 PARTITIONS ARE TYPE "0" UNLESS NOTED OTHERWISE.
 - 2 REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL WALLS, COLUMNS AND PIERS.
 - 3 PATCH AND REPAIR OPENINGS IN FINISHED WORK RESULTING FROM THE REMOVAL OF ITEMS DENOTED ON DEMOLITION DRAWINGS.
 - 4 TYPE UL-2A:10B:C FIRE EXTINGUISHERS (IN CABINETS WHERE NOTED) SHALL BE INSTALLED IN ACCORDANCE WITH FBC 906.1 AND AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
 - 5 FIRE EXTINGUISHERS SHALL BE CURRENTLY DATED AND TAGGED BY A LICENSED FIRE EQUIPMENT COMPANY.
 - 6 PROVIDE SIGNAGE IN THE RENOVATED SPACE AT THE ENTRANCE TO THE SUITE IN ACCORDANCE WITH FLORIDA ACCESSIBILITY CODE SECTION 703.
 - 7 INSTALL TACTILE SIGNAGE, IN ADDITION TO NOTE 1, AT EACH DOOR THAT HAS EXISTING AND/OR NEW EXIT SIGNAGE.
 - 8 TACTILE SIGNAGE SHALL READ "EXIT" AND COMPLY WITH ICC/ANSI A117.1
 - 9 SIGNAGE TO BE MOUNTED AT THE STRIKE SIDE OF EACH DOOR, 9" FROM THE DOOR FRAME TO THE CENTER OF THE SIGN.
 - 10 MOUNT THE SIGN AT 50" ABOVE FINISH FLOOR TO THE CENTER OF THE TACTILE CHARACTERS.
 - 11 EACH NEW FIRE WALL, FIRE BARRIER, FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES WITH WORDING, "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". SUCH SIGNS OR STENCILING SHALL BE IN 4" HIGH LETTERS, 1/2" STROKE, AND NOT MORE THAN 15 FEET ON-CENTER.
 - 12 REQUIRED PUBLIC PLUMBING FACILITIES SHALL BE PROVIDED WITH SIGNS THAT DESIGNATE THE SEX, AS REQUIRED BY FBCP 403.2. SIGNS SHALL BE READILY VISIBLE AND LOCATED NEAR THE ENTRANCE TO EACH TOILET FACILITY. SIGNS FOR ACCESSIBLE TOILET FACILITIES SHALL COMPLY WITH FLORIDA BUILDING CODE, ACCESSIBILITY.
 - 13 DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE REQUIRED PUBLIC TOILET FACILITIES SHALL BE POSTED IN THE LOBBY, CORRIDOR, AISLE OR SIMILAR SPACE, SUCH THAT THE SIGN CAN BE READILY SEEN FROM THE MAIN ENTRANCE TO THE BUILDING OR TENANT SPACE.

- GENERAL DOOR NOTES
- 1 COMPLY WITH ANSII/ICC-A117.1.
 - 2 ALL DOORS IN THE MEANS OF EGRESS SHALL BE SINGLE ACTION RELEASE AND SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE TO OPEN FROM EGRESS SIDE AND SHALL COMPLY WITH NFPA 101:7.2.1.5.1 AND NFPA 101:7.2.1.5.3
 - 3 DOOR TOP CLOSURES FLUSH WITH TOP OF FACES AND EDGES.
 - 4 GLAZED LIGHTS SHALL HAVE NON-REMOVABLE STOPS ON NON-SECURE SIDE.
 - 5 PREPARE HARDWARE IN ACCORDANCE WITH BHMA A156.115, WITH REINFORCEMENT WELDED IN PLACE, IN ADDITION TO OTHER REQUIREMENTS OF SPECIFIED DOOR GRADE.
 - 6 INSTALL HARDWARE IN FIRE-RATED DOORS IN ACCORDANCE WITH NFPA 80.
 - 7 GALVANIZE UNITS IN WET AREAS: HOT-DIPPED ZINC-IRON ALLOY-COATED (GALVANEALD), MANUFACTURER'S STANDARD COATING THICKNESS.
 - 8 DOOR AND FRAME UNITS INDICATED TO COMPLY WITH MORE THAN ONE TYPE OF REQUIREMENT TO COMPLY WITH EACH OF THE MOST STRINGENT SPECIFIED REQUIREMENTS FOR EACH TYPE.
 - 9 EXTERIOR DOOR FRAMES, FACE WELDED WITH JOINTS FILLED.
 - 10 NON-FIRE-RATED INTERIOR DOOR FRAMES: KNOCK DOWN TYPE.
 - 11 PROVIDE MORTAR GUARD BOXES FOR HARDWARE CUT-OUTS TO BE INSTALLED IN MASONRY OR TO BE GROUTED.
 - 12 COAT INSIDE OF FRAMES TO BE INSTALLED IN MASONRY OR TO BE GROUTED, WITH BITUMINOUS COATING, PRIOR TO INSTALLATION.
 - 13 LOCKSETS TO BE KEYPED INDIVIDUALLY, COORDINATE AND TEST KEYING FOR LOCKSETS TO ENSURE CONFORMANCE AND COMPATIBILITY WITH OWNER'S KEYING SYSTEM.
 - 14 PROVIDE A THERMALLY BROKEN THRESHOLD AT EACH EXTERIOR DOOR UNLESS OTHERWISE NOTED.
 - 15 PROVIDE A KICKPLATE ON PUSH SIDE OF EVERY DOOR WITH A CLOSER EXCEPT AT STOREFRONT DOORS, ALL GLASS DOORS, AND LOUVERED DOORS.
 - 16 PROVIDE AND INSTALL A KEY CABINET, KEYPED TO THE BUILDING'S KEY SYSTEM, AS DIRECTED BY THE OWNER. SIZE CAPACITY OF KEY CABINET TO ACTUAL QUANTITY OF KEYS PLUS 25 PERCENT.
 - 17 PROVIDE AND INSTALL A FIRE DEPARTMENT LOCK BOX AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION.
 - 18 FIRE RATINGS IN DOOR SCHEDULE ARE NOTED IN MINUTES.
 - 19 EXIT DEVICES SHALL BE CONSIDERED TO INCLUDE PANIC HARDWARE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
 - 20 HOLD-OPENS ARE ELECTROMAGNETIC AND TIED TO FIRE ALARM SYSTEM.
 - 21 WOOD DOORS ARE SOLID CORE UNLESS OTHERWISE NOTED.
 - 22 THE NUMERICAL ADDRESS SHALL BE PROVIDED ON ALL EXTERIOR DOORS WITH 6-INCH NUMBERS, WEATHERPROOF, AND IN CONTRASTING COLORS. IF THE ADDRESS IS TO BE PLACED ON A WINDOW THE NUMBERS SHALL BE "WHITE", IF THEY ARE TO BE ON A LIGHT COLORED BACKGROUND THEY SHALL BE "BLACK".

- DOOR SCHEDULE COMMENTS KEY
- 1 1180° HINGES
 - 2 CARD READER
 - 3 INSULATED DOOR WITH FULL WEATHER STRIPPING, SWEEPS, AND THERMALLY BROKEN THRESHOLD
 - 4 REFER TO WINDOW SCHEDULE FOR FRAME
 - 5 8" STAINLESS STEEL SCUFF PLATE, EACH SIDE
 - 6 PUSH/PULL
 - 7 TEMPERED GLASS
 - 8 FIRE-RATED GLASS CERAMIC, NOMINAL 3/16"
 - 9 FIRE-RATED, SAFETY-RATED GLASS CERAMIC, NOMINAL 5/16"
 - 10 HOLLOW CORE WOOD
 - 11 BLANK INTERIOR
 - 12 UNDERCUT, REFER TO MECHANICAL
 - 13 DOOR PANEL CHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 20 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723

- KEYNOTE LEGEND
- KEY NOTE
- 1 FIRE EXTINGUISHER



SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
S A N D B A R A R C . C O M
AA 26003331

CERTIFICATION



02.05.2021

CONSULTANTS

ARCHITECT OF RECORD
DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

PROJECT INFORMATION

AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

MAIN LEVEL
FLOOR PLAN

ISSUE

CONSTRUCTION
DOCUMENTS

ISSUE DATE

10.12.2020

ISSUE REVISIONS

No.	Date	Description
1	1/15/2021	PERMIT COMMENTS

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AE101





NCPG 1106 & SIZE OF ROOF GUTTERS

WORST CASE SCENARIO:

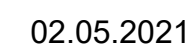
HORIZONTALLY PROJECTED ROOF AREA:	5,051 SF
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REQUIREMENTS PER TABLE 1106.06

DIAMETER OF SEMICIRCULAR ROOF GUTTER @ 2 PERCENT SLOPE	10"
CROSS SECTIONAL AREA OF 8" DIAMETER SEMICIRCULAR GUTTER:	39.25 SI
CROSS SECTIONAL AREA OF GUTTER PROVIDED:	46.01 SI



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CONSULTANTS

CIVIL ENGINEER
JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER
STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD
W. RONALD MCLLVEEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

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WILMINGTON
AIRCRAFT
STORAGE
HANGAR

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

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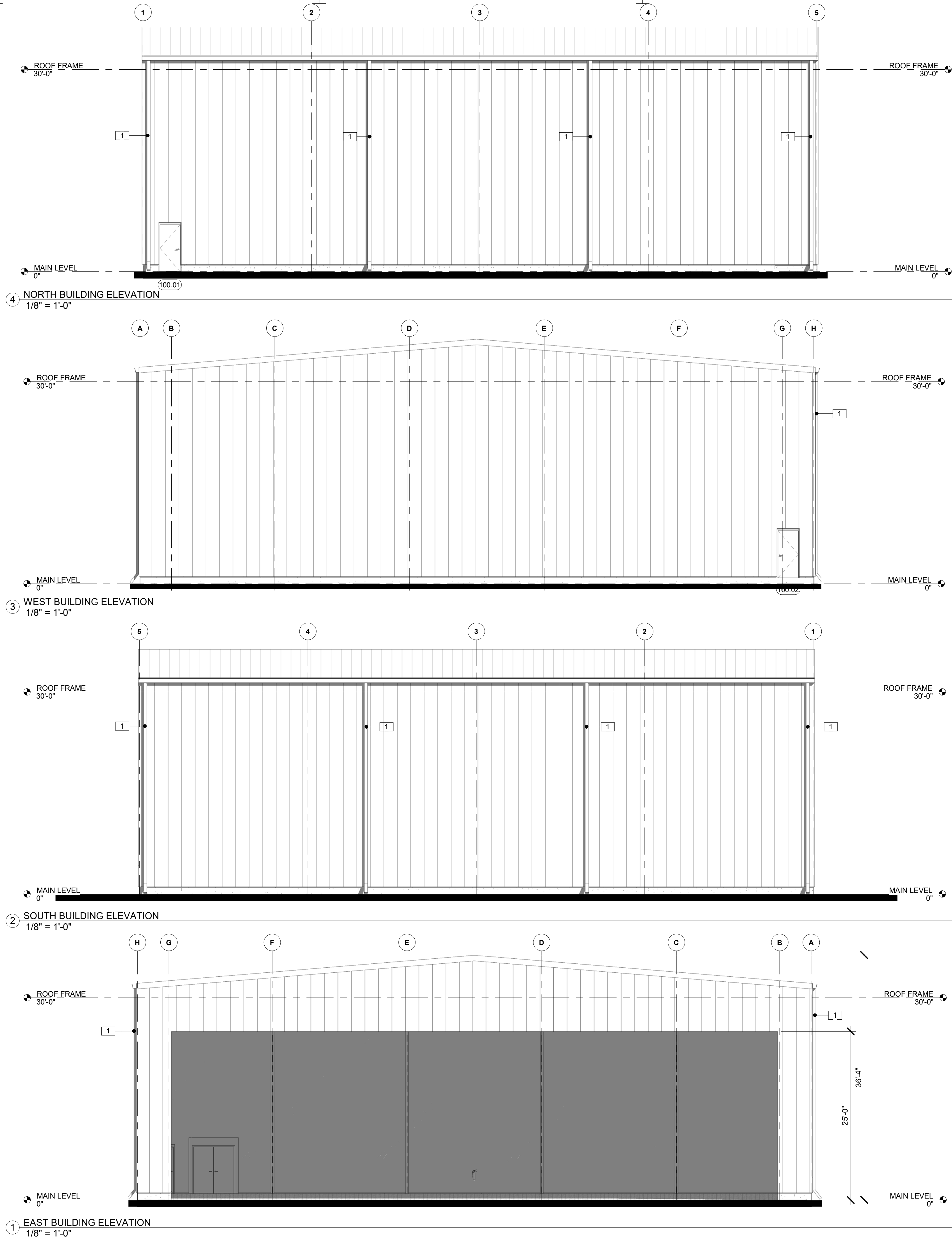
ISSUE DATE
10.12.2020

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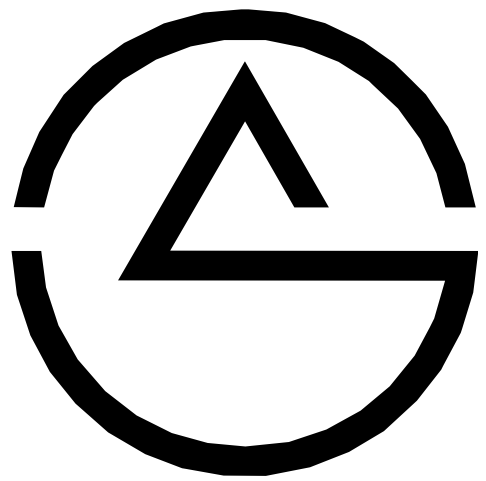
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KEYNOTE LEGEND
KEY NOTE
1 GUTTERS AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER.



SANDBAR
ARCHITECTURE, PA

102 EAST TARPON AVENUE
TARPON SPRINGS, FLORIDA 34689
TEL. 727.308.1773
S A N D B A R A R C . C O M
AA 26003331

CERTIFICATION



02.05.2021

CONSULTANTS

ARCHITECT OF RECORD

DANIEL L. EDGELL
102 E TARPON AVE
TARPON SPRINGS, FL 34689
P. 727.308.1773

CIVIL ENGINEER

JM SMITH ENGINEERING
155 CLARKESVILLE STREET
CORNELIA, GA 30531
P. 706.894.2331

STRUCTURAL ENGINEER

STRUCTURES ONE
PO BOX 97
ODESSA, FL 33556
P. 813.549.5128

M/E/P ENGINEER OF RECORD

W. RONALD MCLLVEN
36458 US 19 N
PALM HARBOR, FL 36484
P. 727.784.1472

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AERO CENTER
WILMINGTON
AIRCRAFT
STORAGE
HANGAR

WILMINGTON
INTERNATIONAL AIRPORT
1835 FLIGHTLINE RD
WILMINGTON, NC 28405

COMMISSION 20-02a

DRAWING NAME

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ELEVATIONS
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