

Date: 23 March 2023
To: Mr. Stephen Shanks
Subject: ADDENDUM NO. 2
Project: F-35 – ADAL SQUADRON OPERATIONS BUILDING 1303
Job #: ANG# FAKZ189102 / SSL# 10065.02
From: David Donovan

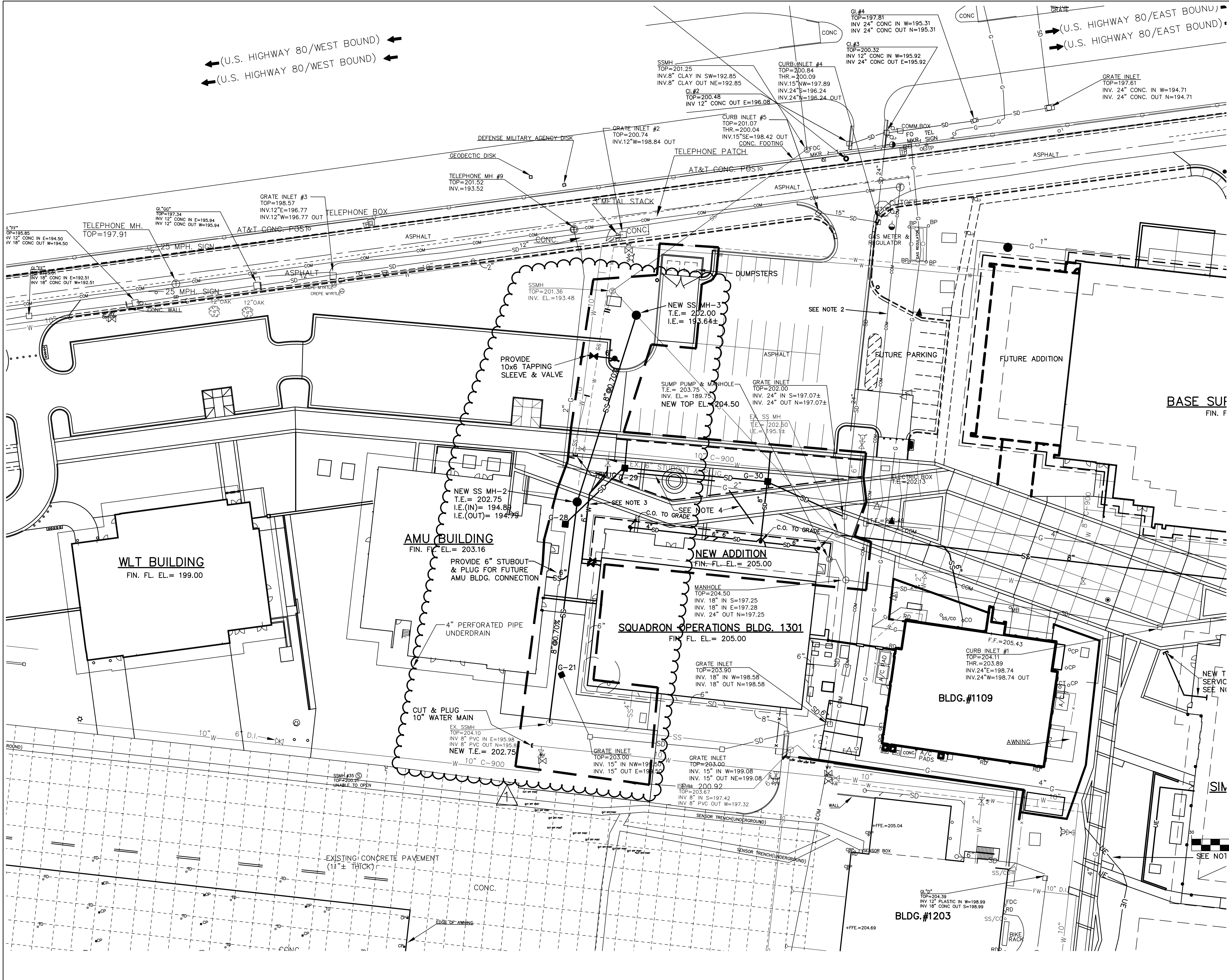
David
Donovan

Digitally signed by David Donovan
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Date: 2023.03.21 14:09:37 -04'00'

The plans and Specifications for the F-35 – ADAL Squadron Operations Building 1303, dated November 2022 are amended as follows. (Where there are conflicts between the plans and specifications and the addendum, this addendum shall govern).

- Item No. 1:** Change top of slab from 13'-10" to 13'-6" on details 1/S2.2, 2/S2.2, 7/S2.3, 6/S2.1.
- Item No. 2:** Delete page C1.1 "Site Demolition Plan" and replace it with the attached drawing sheet C1.1 "Site Demolition Plan" with a revised date of 3-14-2023.
- Item No. 3:** Delete page C4.1 "Site Utilities Plan" and replace it with the attached drawing sheet C4.1 "Site Utilities Plan" with a revised date of 3-14-2023.
- Item No. 4:** Delete page C8.1 "Site Details" and replace it with the attached drawing sheet C8.1 "Site Details" with a revised date of 3-14-2023.
- Item No. 5:** Add the attached drawing sheet C10.1 "Site Details."
- Item No. 6:** Add the attached specification section 33 3112 "Sanitary Sewerage."
- Item No. 7:** Change 3 references to specific note 1 within rooms S24 and S25 on drawing sheet A1.1 to reference specific note 15. Add specific note 15 reading as follows "Refer to electrical. Remove existing concealed electrical and communications cabling from new secure wall assembly. Reinstall cabling in new surface mounted raceway once modifications to existing wall assembly are complete."
- Item No. 8:** Refer to sheet A2.1. Change the reference in specific note 1 from 5/A2.5 to 4/A2.5.

End of Addendum #2



LEGEND		
DESCRIPTION	EXISTING	NEW
BUILDING		
CURB		
CURB & GUTTER		
CONCRETE PAVEMENT		
ASPHALT PAVEMENT		
SANITARY SEWER MANHOLE		
SANITARY SEWER LINE		
GAS METER		
GAS LINE		
GAS VALVE & VALVE BOX		
STORM MANHOLE		
CURB INLET		
GRATE INLET		
STORM DRAIN LINE		
PERFORATED UNDERDRAIN LINE		
CLEAN-OUT		
WATER LINE (ABANDONED)		
WATER LINE		
FORCE MAIN		
ELECTRIC (AERIAL)		
ELECTRIC (UNDERGROUND)		
WATER VALVE & VALVE BOX		
FIRE HYDRANT		
POWER POLE		
LIGHT POLE		
GUY WIRE		
TRAFFIC SIGN		
BUMPER POST		
FENCE		
BUSH		
HEDGE ROW		
TREE		
PROJECT LIMITS		
COMMUNICATION		

- NOTES:
1. 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 THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL OF THE UNDERGROUND UTILITIES.
 2. EXISTING COMMUNICATIONS CONDUIT, CONTRACTOR TO INSTALL NEW COMMUNICATIONS CABLE IN EXISTING CONDUIT, REFER TO ELECTRICAL SITE PLAN.
 3. INSTALL NEW WATER SERVICES PRIOR TO REMOVAL OF EXISTING 10" WATER MAIN AND BUILDING SERVICES.
 4. PROVIDE (2) 4" SCH. 40 PVC SLEEVES UNDER WALKWAY FOR FUTURE USE.

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

PEC

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No.	Revision	Date
1	ADDENDUM 1	3-14-2023

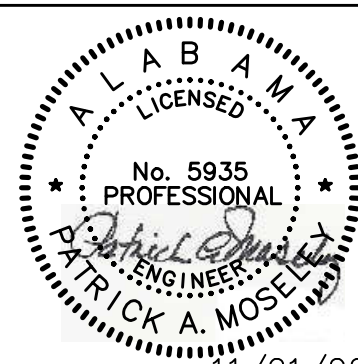
Job Number	10065.02
Date	NOV 2022
Drawn By	SBG
Checked By	XX
Project Title	

F-35: ADAL SQUADRON
OPERATIONS BUILDING 1303
DANNELLY FIELD
MONTGOMERY, ALABAMA

Sheet Title
SITE UTILITIES PLAN

Sheet Number

C4.1



11/21/22

STRUCTURE			PIPES				STRUCTURES			REMARKS
FROM	TO	PIPE LGTH. FT.	DIA. IN.	SLOPE %	INVERT ELEV.		NO.	TYPE STURCTURE	TOP ELEV.	
					UP STREAM	DOWN STREAM				
							G-21	GRATE INLET	202.00	CONSTRUCT ON EXISTING 15" PIPE. BOTTOM TO MATCH EXISTING PIPE ELEVATION 199.7±
G-28	G-29	51	15	0.50	198.50	198.24	G-28	GRATE INLET	202.00	
G-29	G-30	90	15	0.50	198.24	197.79	G-29	GRATE INLET	202.00	
G-30	EX. GRATE INLET	53	15	0.50	197.79	197.52	G-30	GRATE INLET	202.00	



NTS



N.T.S.



NIS

- ## THRUST BLOCK
- ### NOTES AND DETAILS

NTS



NO SCALE



NTS



SECTION



EJ	EXPANSION JOINT
SC	SAWED CONTRACTION JOINT

SCALE: 1"=10'



N.T.S.

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)							
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED RUN		BEND ANGLE		
			A1	A2	45°	22½°	11¼°
4	1.0	1.4	1.9	1.4	1.0	—	—
6	2.1	3.0	4.3	3.0	1.6	1.0	—
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

VOLUME OF THRUST BLOCK (IN CUBIC YARDS (VERTICAL BENDS))			
FITTING SIZE	BEND ANGLE		
	45°	22 1/2°	11 1/4°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

* SEE NOTE 5.



FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

[illegible]

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Drawn By	SB
Checked By	X

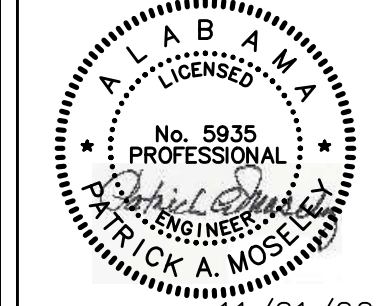
Project Title

F-35: ADAL SQUADRON
OPERATIONS BUILDING 1303
DANNELLY FIELD
MONTGOMERY, ALABAMA

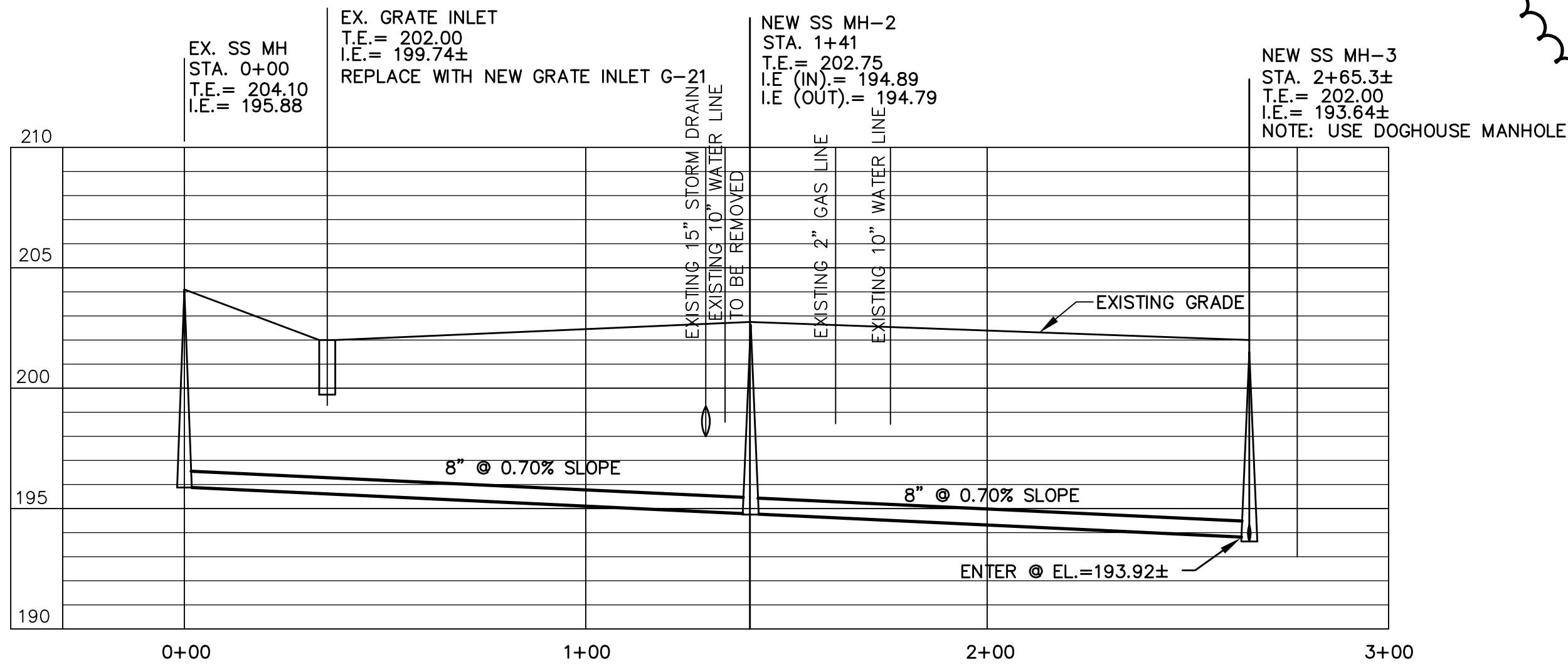
Sheet Title
SITE DETAILS

Sheet Number

C8.1



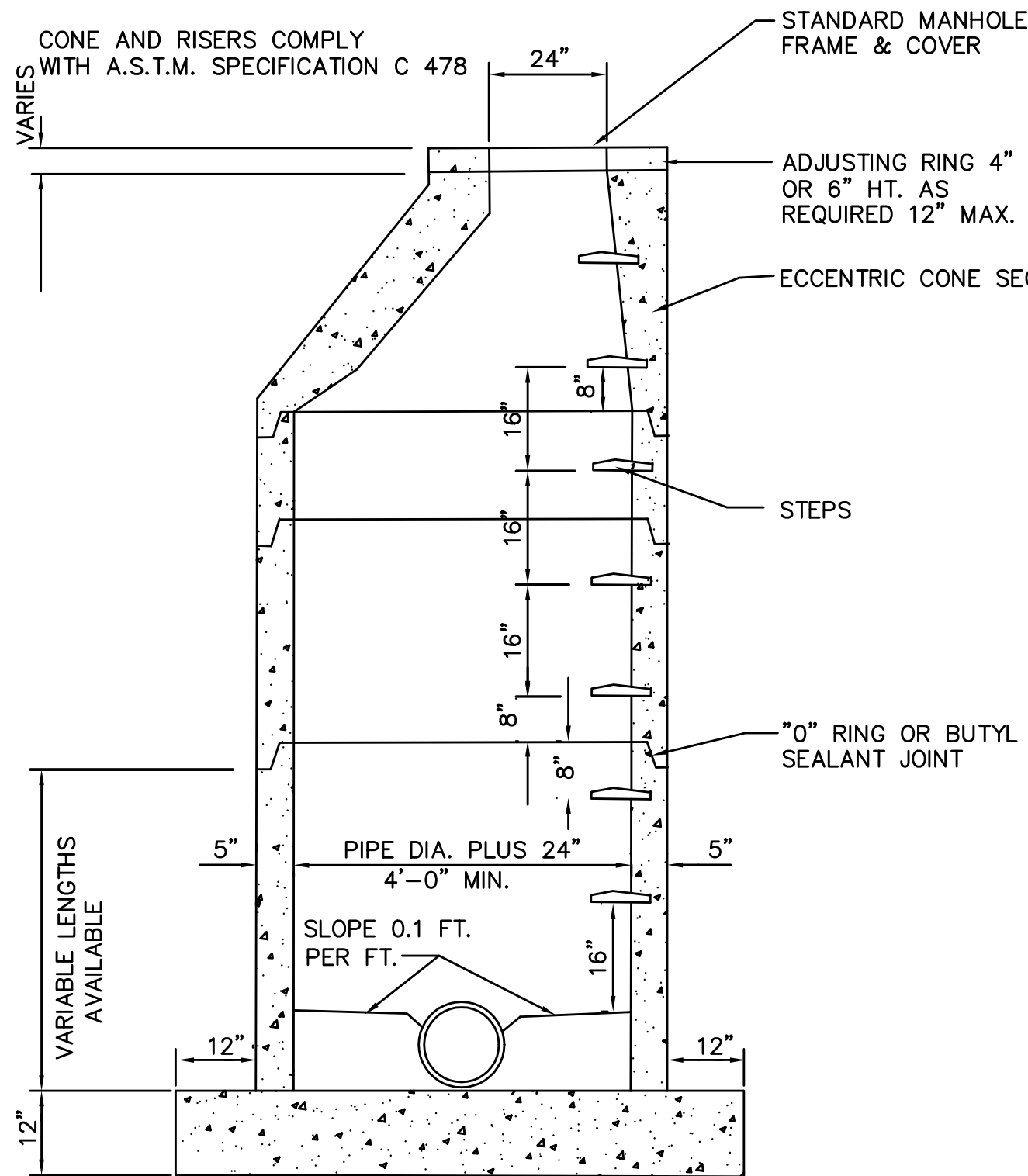
11/21/22



SANITARY SEWER PROFILE

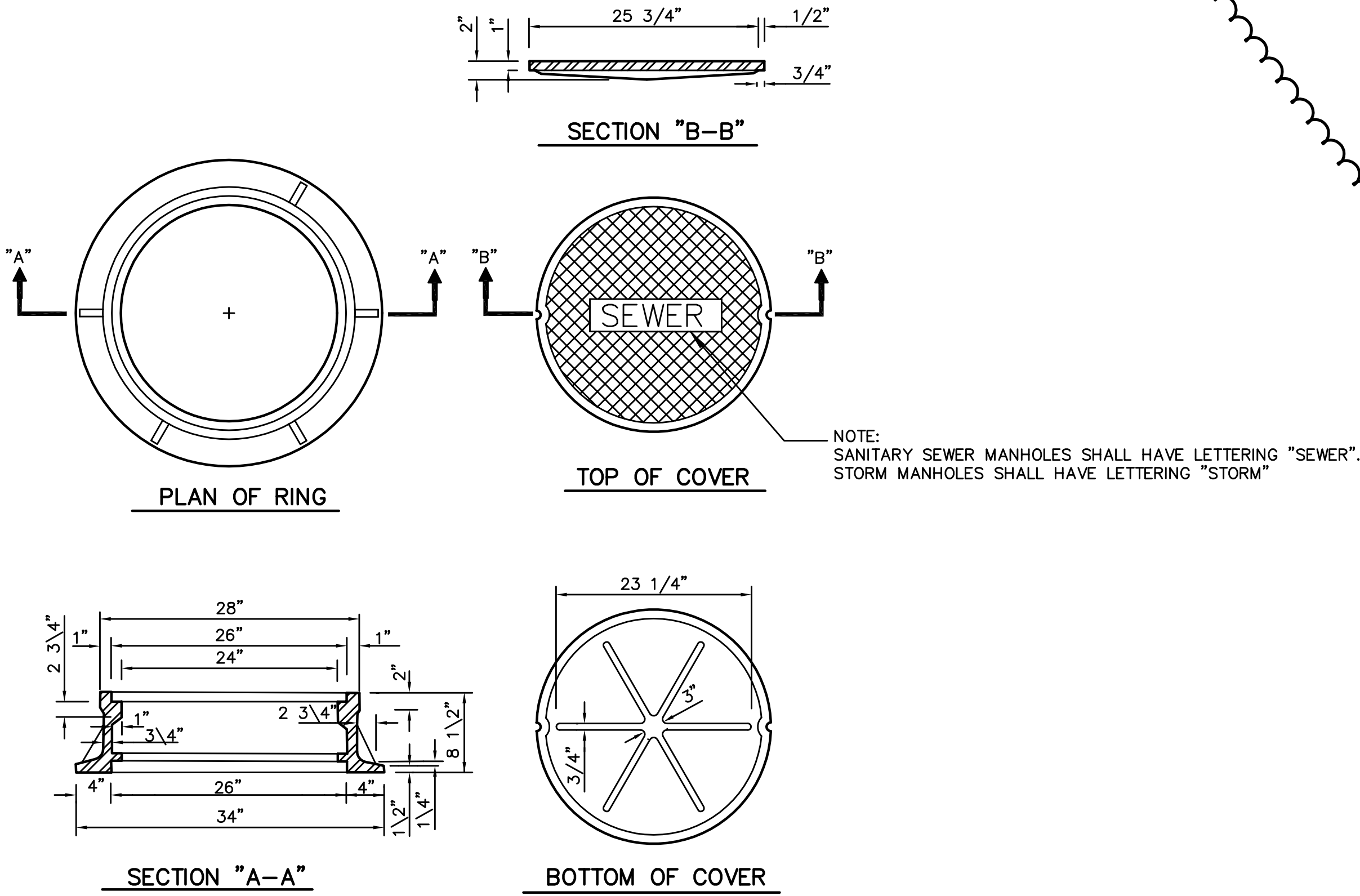
SCALES: HORIZONTAL 1"=30'
VERTICAL 1"=5'

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF EXISTING
SANITARY SEWER AT EACH END OF NEW SANITARY SEWER
TO MAINTAIN 0.10 FEET MINIMUM FALL ACROSS MANHOLES. MAKE
ADJUSTMENT IN SLOPE OF NEW SEWER AS REQUIRED TO MAINTAIN
A MINIMUM SLOPE OF 0.42 PERCENT SLOPE.



PRECAST CONCRETE MANHOLE

NTS



STANDARD MANHOLE COVER & RING

NTS



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PEC JOB # 18-070



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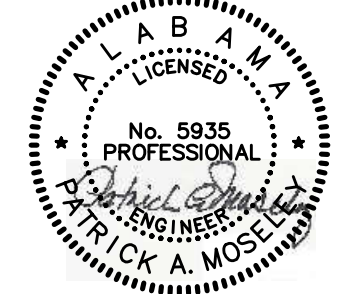
F-35: ADAL SQUADRON
OPERATIONS BUILDING 1303
DANNELLY FIELD
MONTGOMERY, ALABAMA

Sheet Title

SITE DETAILS

Sheet Number

C10.1



8/01/21

SECTION 333112 - SANITARY SEWERAGE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including requirements of the Government's Solicitation and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes sanitary sewerage outside the building.

1.03 PERFORMANCE REQUIREMENTS

- A. Gravity-Flow, Non-pressure-Piping Pressure Ratings: At least equal to system test pressure.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Protect pipe, pipe fittings, and seals from dirt and damage.

1.05 PROJECT CONDITIONS

- A. Site Information: Verify existing utility locations.
- B. Locate existing structures and piping to be closed and abandoned.
- C. Comply with requirements of the Montgomery Water Works and Sanitary Sewer Board; obtain required permits and inspections. Pipe materials specified shall comply with the above agency. Should there be no material requirements from that agency, the general contractor may use any of the materials specified herein.

1.06 SUBMITTALS

- A. Project Data: Submit manufacturer's technical product data and installation instructions for proposed materials and products.
- B. Record Drawings: At project closeout, submit record drawings of installed systems piping and products, in accordance with requirements of Division 01.
- C. Sustainability Submittals, Product data for HPSB Compliance:
 - 1. For products having recycled content, provide documentation indicating percentages by weight of postconsumer and pre-consumer recycled content.

- a. Include statement indicating costs (sell price for each product having recycled content)
- b. Include the total weight of products provided
- c. If fly ash, ground granulated blast furnace slag, silica fume, rice hull ash, or other waste materials is used in mix designs to replace Portland cement, submit the total volume of concrete cast in place, mix design(s) used showing the quantity of portland cement replaced, reports showing successful cylinder testing, and temperature on day of pour if cold weather mix is used.

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 PIPES AND FITTINGS

- A. Ductile-Iron Sewer Pipe: ASTM A 746, for push-on joints.
 1. Standard-Pattern, Ductile-Iron Fittings: AWWA C110, ductile or gray iron, for push-on joints.
 2. Gaskets: AWWA C111, rubber.
 3. ABS Sewer Pipe and Fittings: ASTM D 2751, for solvent-cemented or gasketed joints.
 - a. Wall Thickness for NPS 8 to NPS 12 (DN200 to DN300): SDR 42.
 - b. Gaskets: ASTM F 477, elastomeric seals
 4. PVC Sewer Pipe and Fittings: According to the following:
 - a. PVC Sewer Pipe and Fittings, NPS 15 and Smaller: ASTM D 3034, SDR 35. for solvent-cemented or gasketed joints.
 - 1) Gaskets: ASTM F 477, elastomeric seals.

2.03 CONCRETE

- A. General: Cast-in-place concrete according to ACI 318, ACI 350R, and the following:
 1. Cement: ASTM C 150, type II.
 2. Fine Aggregate: ASTM C 33, sand.
 3. Coarse Aggregate: ASTM C 33, crushed gravel.

4. Water: Potable.
- B. Portland Cement Design Mix: 3000-psi minimum, with 0.45 maximum water-cementitious materials ratio.

2.04 MANHOLES

- A. Heavy-Traffic Precast Concrete Manholes: ASTM C 913; designed according to ASTM C 890 for A-16, heavy-traffic, structural loading; of depth, shape, and dimensions indicated, with provision for rubber gasketed joints.
 1. Gaskets: Rubber.
 2. Grade Rings: Include two or three reinforced-concrete rings, of 6- to 9-inch total thickness, that match 24-inch- diameter frame and cover.
 3. Pipe Connectors: ASTM C 923 (ASTM C 923M), resilient, of size required, for each pipe connecting to base section.
- B. Manhole Frames and Covers: ASTM A 536, Grade 60-40-18, ductile-iron castings designed for heavy-duty service. Include 24-inch ID by 7- to 9-inch riser with 4-inch minimum width flange, and 26-inch- diameter cover. Include indented top design with lettering "SANITARY" cast into cover.

2.05 CLEANOUTS

- A. Gray-Iron Cleanouts: ASME A112.36.2M, round, gray-iron housing with clamping device and round, secured, scoriated, gray-iron cover. Include gray-iron ferrule with inside calk or spigot connection and countersunk, tapered-thread, brass closure plug. Use units with top-loading classifications according to the following applications:
 1. Light Duty: In earth or grass foot-traffic areas.
 2. Medium Duty: In paved foot-traffic areas.
 3. Sewer Pipe Fitting and Riser to Cleanout: ASTM A 74, Service class, cast-iron soil pipe and fittings.

PART 3 EXECUTION

3.01 EARTHWORK

- A. Excavating, trenching, and backfilling are specified in Division 2 Section "Earthwork".

3.02 IDENTIFICATION

- A. Materials and their installation are specified in Division 2 Section “Earthwork.”
Arrange for installing green warning tapes directly over piping.
 - 1. Use warning tape or detectable warning tape over ferrous piping.
 - 2. Use detectable warning tape over nonferrous piping.

3.03 PIPING APPLICATIONS

- A. General: Include watertight joints.

3.04 INSTALLTION, GENERAL

- A. General Locations and Arrangements: Drawings plans and details indicate general location and arrangement of underground sanitary sewerage piping. Location and arrangement of piping layout take design considerations into account. Install piping as indicated, to extent practical.
- B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer’s written instructions for using lubricants, cements, and other installation requirements. Maintain swab or drag in line, and pull past each joint as it is completed.
- C. Extend sanitary sewerage piping and connect to building’s sanitary drains, of sizes and in locations indicated. Terminate piping as indicated.

3.05 PIPE JOINT CONSTRUCTION AND INSTALLATION

- A. General: Join and install pipe fittings according to installations indicated.
- B. Ductile-Iron Sewer Pipe with Ductile-Iron Fittings: According to AWWA C600.
- C. ABS Pipe and Fittings: As follows:
 - 1. Join pipe and gasketed fittings with gaskets according to ASTM D 2321.
 - 2. Install according to ASTM D 2321.
- D. PVC Sewer Pipe and Fittings: As follows:
 - 1. Join pipe and gasketed fittings with gaskets according to ASTM D 2321.
 - 2. Install according to ASTM D 2321.

- E. System Piping Joints: Make joints using system manufacturer's couplings, unless otherwise indicated.
- F. Join piping made of different materials or dimensions with couplings made for this application. Use couplings that are compatible with and that fit both systems' materials and dimensions.
- G. Install with top surfaces of components, except piping, flush with finished surface.

3.06 MANHOLE INSTALLATION

- A. General: Install manholes, complete with appurtenances and accessories indicated.
- B. Form continuous concrete channels and benches between inlets & outlet.
- C. Set tops of frames and covers flush with finished surface of manholes that occur in pavements. Set tops 3 inches above finished surfaces elsewhere, unless otherwise indicated.
- D. Install precast concrete manhole sections with gaskets according to ASTM C 891.

3.07 CONCRETE PLACEMENT

- A. Place cast-in-place concrete according to ACI 318 and ACI 350R.

3.08 CLEANOUT INSTALLATION

- A. Set cleanout frames and covers in earth in cast-in-place concrete block, 18 by 18 by 12 inches deep. Set with tops 1 inch above surrounding grade.

3.09 TAP CONNECTIONS

- A. Make connections to existing manhole so finished Work complies as nearly as practical with requirements specified for new Work.
- B. Protect existing piping and structures to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that may accumulate.

3.10 FIELD QUALITY CONTROL

- A. Clear interior of piping and structures of dirt and superfluous material as work progresses. Maintain swab or drag in piping, and pull past each joint as it is completed.
 - 1. Place plug in end of incomplete piping at end of day when work stops.

2. Flush piping between manholes and other structures to remove collected debris, if required by authorities having jurisdiction.
- B. Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects.
 1. Do not enclose, cover, or put into service before inspection and approval.
 2. Test completed piping systems according to authorities having jurisdiction.
 3. Schedule tests and inspections by authorities having jurisdiction with at least 24 hours' advance notice.
 4. Submit separate reports for each test.
 5. If authorities having jurisdiction do not have published procedures, perform tests as follows:
 - a. Sanitary Sewerage: Perform hydrostatic test.
 - 1) Allowable leakage is maximum of 50 gal. Per inch of nominal pipe size per mile (4.6 L per millimeter of nominal pipe size per kilometer) of pipe, during 24-hour period.
 - 2) Close openings in system and fill with water.
 - 3) Purge air and refill with water.
 - 4) Disconnect water supply.
 - 5) Test and inspect joints for leaks.
 - 6) Option: Test ductile-iron piping according to AWWA C600, Section "Hydrostatic Testing." Use test pressure of at least 10 psig (69 kPa).
 - (a) Sanitary Sewerage: Perform air test according to UNI-B-6.
 - 7) Manholes: Perform hydraulic test according to ASTM C 969 (ASTM C 969M).
 - 8) Leaks and loss in test pressure constitute defects that must be repaired.
 - 9) Replace leaking piping using new materials, and repeat testing until leakage is within allowances specified.

END OF SECTION 02530