

CONSTRUCTION PLANS FOR

Turtle Creek

GENERAL NOTES:

- CONTRACTOR SHALL NOTIFY ESCAMBIA COUNTY ENGINEER 48 HOURS PRIOR TO COMMENCEMENT OF THIS PROJECT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WIPE OUT OR ADJUST THE CROWN WHERE SO NOTED BY THE ENGINEER AND/OR REQUIRED FOR POSITIVE DRAINAGE.
- PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS, DRAINS, WATER, OR GAS PIPES, CONDUITS, RAILROAD TRACK, POLES, WALLS, POSTS, BRIDGES, ETC., ARE TO BE CAREFULLY PROTECTED AND ARE NOT TO BE DISPLACED, UNLESS NOTED.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES 10 DAYS IN ADVANCE, THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, OR RIGHT-OF-WAY.
- LOCATION OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION BEFORE CONSTRUCTION. FAILURE OF THE PLANS TO SHOW THE EXISTENCE OF ANY UNDERGROUND UTILITIES, STRUCTURES, ETC., SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PRESERVING AND PROTECTING SAID UTILITY OR STRUCTURES.
- CONTRACTOR SHALL DISPOSE OF BY HAULING AWAY ALL EXCESS MATERIAL.
- THE DEVELOPER/ CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATION. CONTROL OF SEDIMENTATION AND EROSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. AREAS OF CONTROL AND TYPICAL SECTION OF BARRIER ARE SUGGESTIONS ONLY AND DOES NOT RELIEVE THE CONTRACTOR OF ANY OF HIS RESPONSIBILITY.
- WHERE UNSUITABLE MATERIALS ARE ENCOUNTERED IN THE PAVED AREAS, THE UNSUITABLE MATERIAL SHALL BE EXCAVATED AND THE AREA BACK FILLED WITH GOOD SAND AND SAND/CLAY MATERIALS. THE SAME SHALL APPLY WHERE THE SUB-BASE IS SUBJECT TO RISING WATER TABLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILIZATION OF STREET AND ROAD SHOULDERS IN ACCORDANCE WITH REQUIREMENTS OF ESCAMBIA COUNTY L.D.C. AND F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- WATER SUPPLY FACILITIES, INCLUDING MAINS, SHALL BE INSTALLED, CLEANED, DISINFECTED, AND BACTERIOLOGIC ALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS AND COORDINATED WITH LOCAL UTILITY ENGINEER/INSPECTOR IN ACCORDANCE WITH COTTAGE HILL WATER'S STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH ANY TESTING REQUIRED BY THE LOCAL GOVERNING AGENCY IN ADDITION TO THE TESTING REQUIREMENTS OUTLINED IN THE SPECIFICATION.
- GRADING AROUND TREES WHICH ARE TO REMAIN SHALL BE AWAY FROM THE TREE IN A MANNER TO CAUSE NO DAMAGE TO THE TREE
- SOD SHALL BE PLACE IN ACCORDANCE WITH SEC. 570 F.D.O.T. STANDARD SPECIFICATIONS.
- PIPELINE CONTRACTOR SHALL BE RESPONSIBLE FOR INLET TOPS AND THROATS.
- RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW ASBUILT CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.
- ALL PROPOSED UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO PAVING. NO STREETS UNDER THE TWO YEAR WARRANTY WILL BE ALLOWED TO BE OPEN-CUT OR JACK AND BORED, TO ACCOMPLISH THIS REQUIREMENT, COMMON TRENCHING IS REQUIRED. COMMON TRENCHING SHALL NOT TAKE PLACE UNTIL ALL ROW ROUGH GRADES HAVE BEEN ESTABLISHED TO ENSURE PROPER UTILITY DEPTHS. IF COMMON TRENCHING IS NOT A FEASIBLE OPTION, THE DEVELOPER SHALL INSTALL CONDUIT FOR THE UTILITY NOT PARTICIPATING IN THE COMMON TRENCHING FOR ALL ROAD CROSSINGS AND THE UTILITY COMPANY WILL BE REQUIRED TO USE THE CONDUIT. THIS SHALL REQUIRE PLANNING BETWEEN THE DEVELOPER AND THE UTILITY.
- ROUGH GRADING OF RIGHT OF WAY MUST BE ESTABLISHED PRIOR TO COMMON TRENCH UTILITY INSTALLATION TO ENSURE UTILITIES ARE INSTALLED AT PROPER DEPTHS. A MINIMUM OF 30" OF COVER IS REQUIRED OVER ALL UTILITIES. THIS DIMENSION SHALL BE MEASURED FROM PROPOSED GRADE IF ROAD IS IN FILL AND MEASURED FROM TOP OF CURB IF ROAD IS IN CUT.
- CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AT LEAST 2 WEEKS PRIOR TO PLACEMENT OF BASE MATERIAL TO ASSIST IN COORDINATION OF ALL OTHER UNDERGROUND UTILITIES.
- ON SITES >1 ACRE, IF >1 CONTIGUOUS ACRE IS CLEARED, A GROUND COVER SUFFICIENT TO PREVENT EROSION SHOULD BE PLANTED OR OTHERWISE STABILIZED WITHIN 10 WORKING DAYS ON THAT PORTION OF THE SITE UPON WHICH FURTHER ACTIVE CONSTRUCTION WILL NOT BE UNDERTAKEN WITHIN 90 DAYS.
- THE PROJECT ENGINEER (ENGINEER OF RECORD) SHALL PROVIDE TO ESCAMBIA COUNTY "ASBUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL BY ESCAMBIA COUNTY ONE WEEK PRIOR TO REQUEST A FINAL INSPECTION, OR PROVIDE ASBUILT CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS. THE ASBUILT CERTIFICATION OR THE ASBUILT RECORD DRAWINGS MUST BE SIGNED AND SEALED AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.
- ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH SEEDING, FERTILIZER AND MULCH, HYDROSEED AND/ OR SOD. SEEDED AREAS SHALL INCLUDE A BAHIA MIX TO ENSURE CONTINUED GROWTH AFTER WINTER MONTHS IN ACCORDANCE WITH THE LATEST EDITIONS OF FDOT SECTION 570 AND FDOT STANDARD PLAN INDEXES 570-001 AND 570-010.
- THE OWNER OR HIS AGENT SHALL ARRANGE/ SCHEDULE WITH HE COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS AT (850) 595-3472. ASBUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/ APPROVAL.
- ALL ASPECTS OF THE STORMWATER/ DRAINAGE COMPONENTS AND OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION.
- NO DEVIATION OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER, ESCAMBIA COUNTY, AND ECUA. ANY DEVIATIONS MAY RESULT IN DELAYS IN COUNTY ACCEPTANCE OF IMPROVEMENTS.
- DENSITY TESTS AND CORE SAMPLES WILL BE REQUIRED TO DEMONSTRATE COMPLIANCE WITH COUNTY STANDARDS PRIOR TO FINAL ACCEPTANCE OF ROADWAY IMPROVEMENTS.
- TO COMPLY WITH NPDES REQUIREMENTS, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/2" RAINFALL EVENT OR AT LEAST WEEKLY. THE CONTRACTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL MAINTENANCE EFFORTS; INSPECTION RECORDS SHALL BE PROVIDED TO THE NPDES PERMIT APPLICANT FOR PROPER REPORTING TO FDOT.
- NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W. 1-800-432-4770
- ECUA INSPECTOR OR AUTHORIZED REPRESENTATIVE MUST OBSERVE ALL CONNECTIONS TO ECUA'S EXISTING WATER AND SANITARY SEWER SYSTEMS.
- TYPE 1 CURB CUT DRIVEWAYS ARE TO BE USED FOR ALL UTILITY ACCESS POINTS.
- ELECTRIC/PHONE/CABLE/GAS STRUCTURES INSTALLED WITHIN DRAINAGE ACCESS EASEMENTS SHALL BE LOCATED ALONG THE BOUNDARY OF THE EASEMENT TO MAXIMIZE CLEAR ACCESS FOR MAINTENANCE EQUIPMENT.
- THE SUBGRADE IS TO BE TESTED FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 300 LINEAR FEET IN THE PROPOSED ROADWAY AREAS. COMPLIANCE TESTS WITHIN THE FILL/BACKFILL AREAS ARE TO BE PERFORMED AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 300 LINEAR FEET.
- ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED WITH FABRIC/SOCK.
- A HEALTHY GROWTH OF GRASS WITHIN DISTURBED RIGHT-OF-WAY AREAS IS REQUIRED PRIOR TO COUNTY APPROVAL /ACCEPTANCE. IF TIME CONTRAINTS EXIST DURING THE FINAL PLAT APPROVAL AND ACCEPTANCE PROCESS, A MINIMUM OF TWO STRIPS OF SOD (MINIMUM 2' WIDE) BEHIND THE BACK OF CURB WITH ALL OTHER DISTURBED AREAS SEEDDED /MULCHED/FERTILIZED WILL BE ACCEPTABLE.
- SAG FILTERS IN CURB THROATS ARE NOT AN ALLOWABLE SEDIMENT CONTROL METHOD.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST TWO WEEKS PRIOR TO PLACEMENT OF BASE MATERIAL TO ASSIST IN THE COORDINATION OF ALL OTHER UNDERGROUND UTILITIES.
- A MINIMUM ONE (1) FOOT GROUND COVER IS REQUIRED FOR ALL UNDERGROUND PIPES.
- PROPOSED RESIDENTIAL LOTS SHALL REMAIN IN THEIR NATURAL STATE (TREES INCLUDED) UNTIL SUCH TIME AS A BUILDING PERMIT FOR THE DWELLING IS ISSUED. FURTHERMORE, PER CODE, NO LAND DISTURBANCE ACTIVITIES SHALL OCCUR ONSITE, INCLUDING LAND CLEARING, PLACING OF FILL MATERIALS, GRADING ACTIVITIES, ETC. OR THE REMOVAL OF TREES, UNTIL SUCH TIME AS CONSTRUCTION PLANS ARE APPROVED AND APPROPRIATE PERMIT(S) ARE ISSUED FOR THE DEVELOPMENT WORK OR OTHERWISE. INFRASTRUCTURE AREAS ONLY CAN BE DEVELOPED ONCE CONSTRUCTION PLANS APPROVAL & CO HAVE BEEN OBTAINED.
- NO HERITAGE OR CHAMPION TREES EXIST ONSITE.
- WORK PERFORMED NEXT TO THE R/W WITH EXISTING SWALES SYSTEMS MAY REQUIRED ADDITIONAL PROVISIONS TO REPAIR/RESTORE EXISTING DRAINAGE SWALES AS NEEDED TO ENSURE ADEQUATE DRAINAGE. R/W SHOULDER STABILIZATION SHOULD BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- THE CONTRACTOR SHALL NOTIFY FDOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHT-OF-WAYS.
- DEVELOPER/CONTRACTOR/HOMEOWNERS ASSOCIATION SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND AT THE END OF THE 2-YEAR WARRANTY PERIOD.

OWNER AND DEVELOPER
ESPLANADE COMMUNITIES OF FLORIDA LLC
3000 GULF BREEZE PARKWAY
GULF BREEZE, FL 32563
PHONE: (850) 934-0470

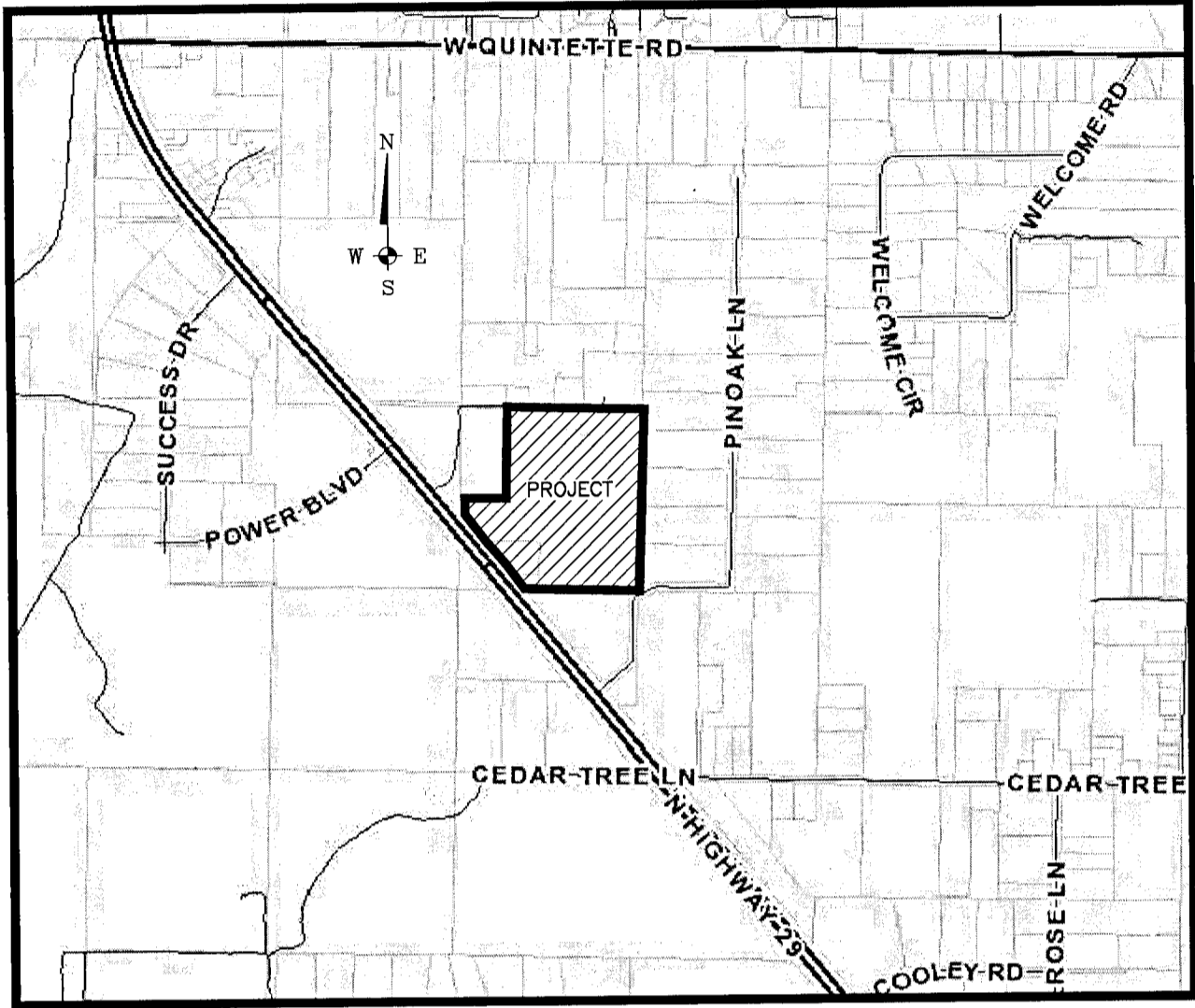
SURVEYOR

SAM SURVEYING & MAPPING, LLC
600 UNIVERSITY OFFICE BLVD., SUITE #17-B
PENSACOLA, FL 32504
LB#7908
P: (850)857-7725
F: (850)857-7726

ENGINEER OF RECORD

DAVID W. FITZPATRICK, P.E., P.A.
PROFESSIONAL ENGINEER
10250 NORTH PALAFOX STREET
PENSACOLA, FLORIDA 32534
(850) 476-8677

A PROPOSED 134 LOT RESIDENTIAL SUBDIVISION OF A PORTION OF
SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST
ESCAMBIA COUNTY, FLORIDA
MARCH 2021



VICINITY MAP
(NOT TO SCALE)

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6	SITE/UTILITY PLAN (SOUTH)
7	SITE/UTILITY PLAN (OFFSITE)
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9	DRAINAGE PLAN (NORTH)
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12	PLAN/PROFILE -- CRESCENT RIDGE
13	PLAN/PROFILE -- BRIMWOOD
14	PLAN/PROFILE -- BRIMWOOD
15	PLAN/PROFILE -- BRIMWOOD
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18	PLAN/PROFILE -- CONVEYANCE SWALE (EAST)
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20	PLAN/PROFILE -- MISC. STORMWATER
21	PLAN/PROFILE -- MISC. SANITARY SEWER
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FLOOD ZONING NOTE:

THE SUBJECT PROPERTY AS SHOWN HEREON IS LOCATED IN FLOOD ZONE X, (MINIMAL RISK AREAS OUTSIDE THE 1-PERCENT AND .2-PERCENT-ANNUAL-CHANCE FLOODPLAINS, NO BFEs OR BASE FLOOD DEPTHS ARE SHOWN WITHIN THESE ZONES), AS DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF ESCAMBIA COUNTY, FLORIDA, COMMUNITY 120080, FIRM MAP PANEL NUMBERS 12033C0240C, MAP REVISION DATED SEPTEMBER 29, 2006

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTURED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.

ECUA Engineering Manual Reference Note*

*note shall be inserted in the upper right corner of title sheet

* applicable only to ECUA infrastructure to be constructed in public ROW or in utility easement; not to be applied to private water/sewer facilities on private property (see Building Code)

A. ECUA Engineering Manual Incorporated by Reference

The ECUA Engineering Manual, dated December 18, 2014, along with Update # 1 dated September 1, 2016 (hereinafter "Manual"), located at www.ecua.fl.gov, is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and Plans, Contractor shall consult Engineer of Record for proper resolution.

B. Additional Documents (to be completed by the Engineer of Record)

Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above? ☒ YES ☐ NO. If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location	
	Specifi-cation	Detail	Plans	Project Manual*
LPFM DETAILS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Project Manuals used only with ECUA CIP Projects

C. Engineer of Record Responsibilities

The Engineers of Record (EORs) that have affixed their seals and signatures on these plans warrant their portions of the plans have been designed in accordance with the Manual (unless otherwise directed by the ECUA Project Engineer). The EORs shall be knowledgeable of the Manual's contents and shall assume responsibility for its use on this Project.

LEGAL DESCRIPTION:

PARCEL 1:

COMMENCE AT THE SOUTHWEST CORNER OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA; THENCE NORTH 1 DEGREES 20 MINUTES 19 SECONDS EAST ALONG THE WEST LINE OF SAID SECTION FOR A DISTANCE OF 1904.42 FEET TO THE EAST RIGHT OF WAY OF U.S. HIGHWAY #29 (215.00 FEET RIGHT OF WAY) AND THE POINT OF BEGINNING, THENCE CONTINUE NORTH DEGREES 20 MINUTES 19 SECONDS EAST ALONG SAID WEST LINE OF SECTION 34 FOR A DISTANCE OF 724.32 FEET TO THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF SAID SECTION; THENCE SOUTH 88 DEGREES 22 MINUTES 21 SECONDS EAST FOR A DISTANCE OF 1324.44 FEET; THENCE SOUTH 1 DEGREES 19 MINUTES 26 SECONDS WEST FOR A DISTANCE OF 1314.58 FEET; THENCE NORTH 88 DEGREES 21 MINUTES 46 SECONDS WEST FOR A DISTANCE OF 726.11 FEET; THENCE NORTH 1 DEGREES 20 MINUTES 19 SECONDS EAST FOR A DISTANCE OF 344.00 FEET; THENCE NORTH 88 DEGREES 21 MINUTES 46 SECONDS WEST FOR A DISTANCE OF 406.38 FEET TO THE EAST RIGHT OF WAY OF U.S. HIGHWAY #29 (200.00 FEET RIGHT OF WAY); THENCE NORTH 39 DEGREES 16 MINUTES 56 SECONDS WEST ALONG SAID RIGHT OF WAY FOR A DISTANCE OF 25.70 FEET; THENCE NORTH 50 DEGREES 43 MINUTES 04 SECONDS EAST FOR A DISTANCE OF 15.00 FEET; THENCE 39 DEGREES 16 MINUTES 56 SECONDS WEST FOR A DISTANCE OF 287.38 FEET TO THE POINT OF BEGINNING, LYING AND BEING IN SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA.

LESS AND EXCEPT

COMMENCE AT THE SOUTHWEST CORNER OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA; THENCE NORTH 1 DEGREES 20 MINUTES 19 SECONDS EAST ALONG THE WEST LINE OF SAID SECTION FOR A DISTANCE OF 1904.42 FEET TO THE EAST RIGHT OF WAY OF U.S. HIGHWAY #29 (215 FEET RIGHT OF WAY) AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 1 DEGREES 20 MINUTES 19 SECONDS EAST FOR A DISTANCE OF 724.32 FEET; THENCE SOUTH 88 DEGREES 22 MINUTES 21 SECONDS EAST FOR A DISTANCE OF 330.00 FEET; THENCE SOUTH 1 DEGREES 20 MINUTES 19 SECONDS WEST FOR A DISTANCE OF 660.00 FEET; THENCE NORTH 88 DEGREES 22 MINUTES 21 SECONDS WEST FOR A DISTANCE OF 244 FEET; THENCE IN A WESTERLY DIRECTION PARALLEL TO SAID SOUTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SECTION 34 A DISTANCE OF 406.4 FEET TO THE EAST RIGHT OF WAY LINE OF SAID NEW PALAFOX HIGHWAY; THENCE IN A SOUTHEASTERLY DIRECTION ALONG SAID EAST RIGHT OF WAY LINE A DISTANCE OF 322.8 FEET; THENCE EASTERLY AND PARALLEL TO THE SAID SOUTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SECTION 34 A DISTANCE OF 196.2 FEET TO THE POINT OF BEGINNING, ALL LYING AND BEING IN SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA.

PARCEL 2:

BEGIN AT THE INTERSECTION OF THE EAST LINE OF THE RIGHT OF WAY OF NEW PALAFOX (HIGHWAY NO. 29) AND THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA, THENCE IN AN EASTERLY DIRECTION ALONG SAID SOUTH LINE A DISTANCE OF 110 FEET; THENCE IN A NORTHERLY DIRECTION PARALLEL TO THE WEST LINE OF SAID SECTION 34, A DISTANCE OF 100 FEET TO THE POINT OF BEGINNING, THENCE CONTINUE ALONG THE SAME LINE FOR A DISTANCE OF 244 FEET; THENCE IN A WESTERLY DIRECTION PARALLEL TO SAID SOUTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SECTION 34 A DISTANCE OF 406.4 FEET TO THE EAST RIGHT OF WAY LINE OF SAID NEW PALAFOX HIGHWAY; THENCE IN A SOUTHEASTERLY DIRECTION ALONG SAID EAST RIGHT OF WAY LINE A DISTANCE OF 322.8 FEET; THENCE EASTERLY AND PARALLEL TO THE SAID SOUTH LINE OF SAID NORTHWEST QUARTER OF SOUTHWEST QUARTER OF SECTION 34 A DISTANCE OF 196.2 FEET TO THE POINT OF BEGINNING, ALL LYING AND BEING IN SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA.

PARCEL 3:

BEGIN AT THE INTERSECTION OF THE EAST LINE OF THE RIGHT OF WAY OF NEW PALAFOX HIGHWAY (HIGHWAY NO. 29) AND THE SOUTH LINE OF THE NORTHWEST 1/4 OF OF THE SOUTHWEST 1/4 OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA, THENCE IN AN EASTERLY DIRECTION ALONG THE SOUTH LINE A DISTANCE OF 110 FEET; THENCE IN A NORTHERLY DIRECTION PARALLEL TO THE WEST LINE OF SAID SECTION 34 A DISTANCE OF 100 FEET; THENCE IN A WESTERLY DIRECTION PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST 1/4 OF OF THE SOUTHWEST 1/4 OF SECTION 34 A DISTANCE OF 196.2 FEET TO THE EAST RIGHT OF WAY LINE OF SAID NEW PALAFOX HIGHWAY, THENCE IN A SOUTHEASTERLY DIRECTION ALONG SAID EAST RIGHT OF WAY LINE A DISTANCE OF 132.3 FEET TO THE POINT OF BEGINNING, ALL LYING AND BEING IN SECTION 34, TOWNSHIP 2 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA.

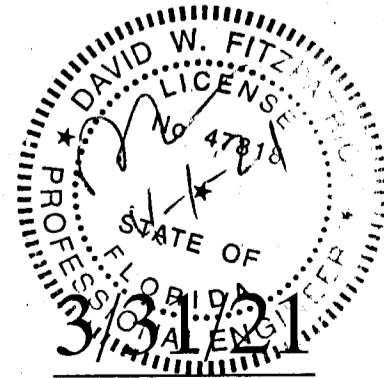
CONTRACTOR SHALL NOTIFY SUNSHINE 1 48 HOURS PRIOR TO COMMENCING CONSTRUCTION 1-800-432-4770

GULF POWER CO. ~ 429-2603

AT&T ~ 436-1489

ECUA ~ 969-5823

PENSACOLA ENERGY ~ 474-5309

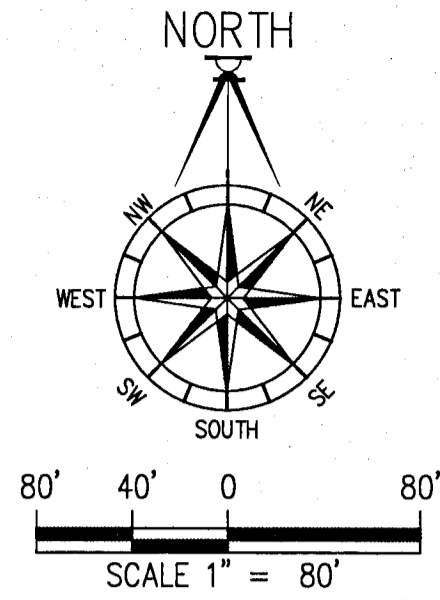


SHEET NO. 1
PROJECT NO. 18-039

Approved: *David W. Fitzpatrick* 4-7-21
Signature Date
This document has been reviewed in accordance with requirements of applicable Escambia County Regulations and Ordinances, and does not in any way relieve the submitting Architect, Engineer, Surveyor, or other signatory from responsibility of details as shown.

DRAINAGE FEE

Imper. Surf. 117,964 Sq ft
Stormwater Ret. 76 % (F)
Total Drainage Fee \$4,448.43
Pond Maint. Fee: MSBL



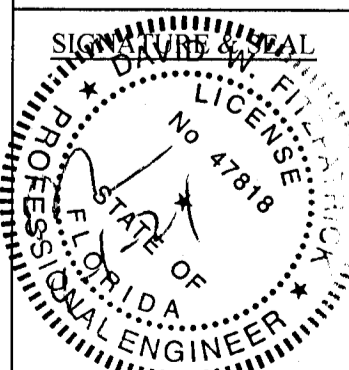
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALM COAST STREET
PALM BEACH, FLORIDA 33411
PH: (850) 775-8877 FAX: (850) 476-7708

TURTLE CREEK

EXISTING CONDITIONS / DEMOLITION PLAN

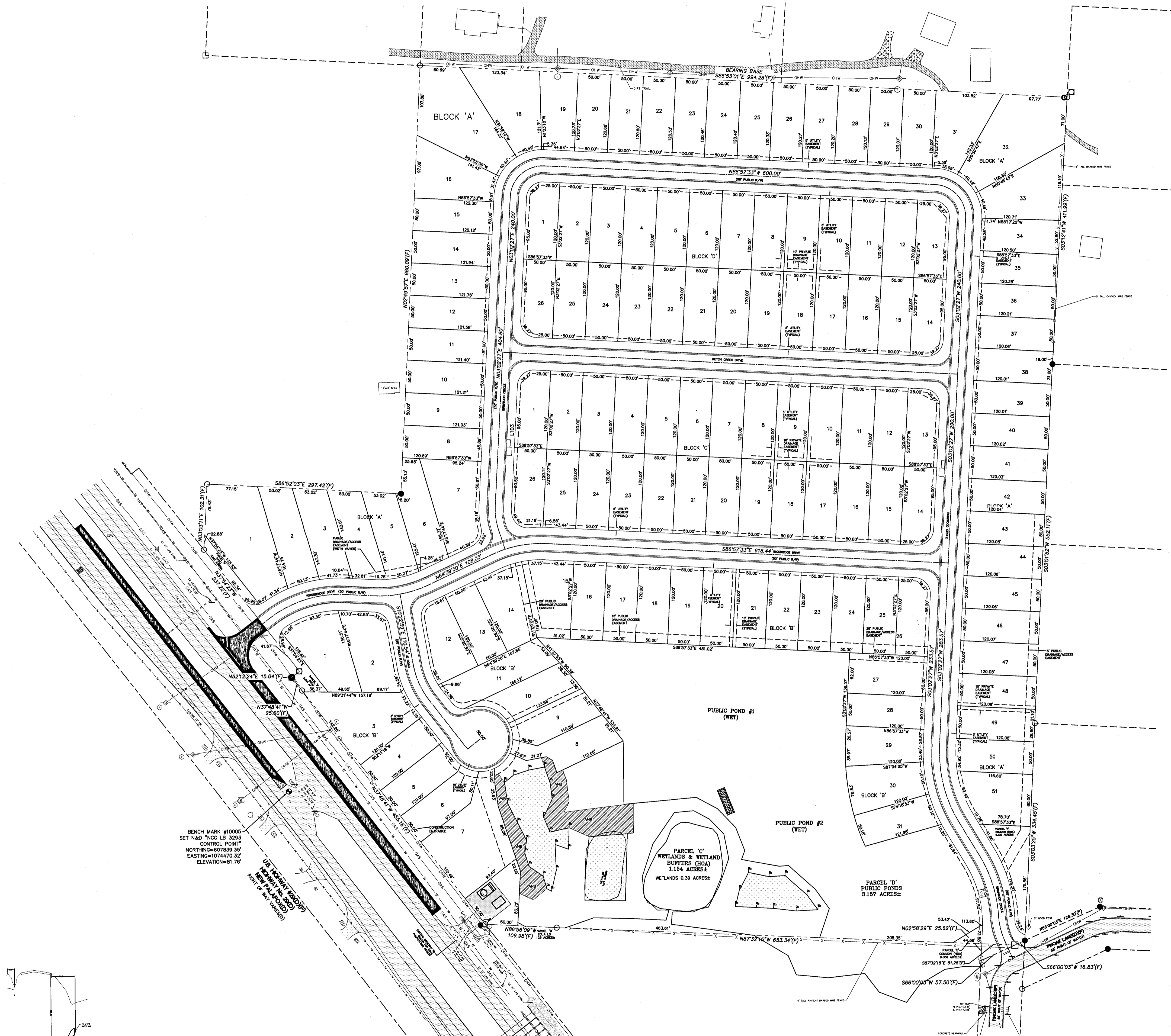
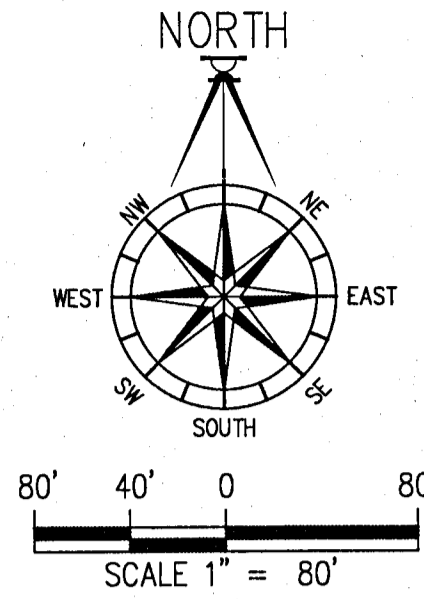
REVISIONS	DATE
1. POST DRAINAGE COMMENT REVISIONS	01/12/20
2. ECUA COMMENT REVISIONS	2/20/21
3. ESCAMBA COUNTY COMMENT REVISIONS	3/31/21

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK



DATE:
PROJECT NUMBER: 18-039
PLOT DATE: 3/31/21
SHEET C2 OF C40

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



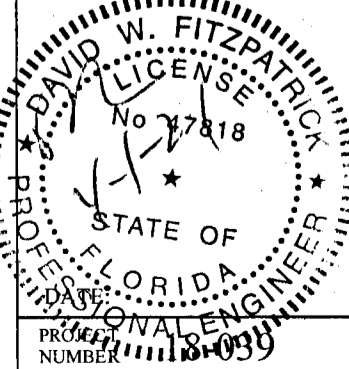
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALM COAST STREET
PALM BEACH, FLORIDA, FAX: (850)476-7708
PH: (850)476-8877

TURTLE CREEK
DIMENSION PLAN

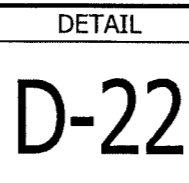
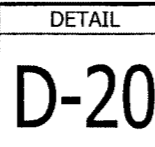
REVISION	DATE
1	12/10/01
2	2/28/02
3	3/1/02

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL



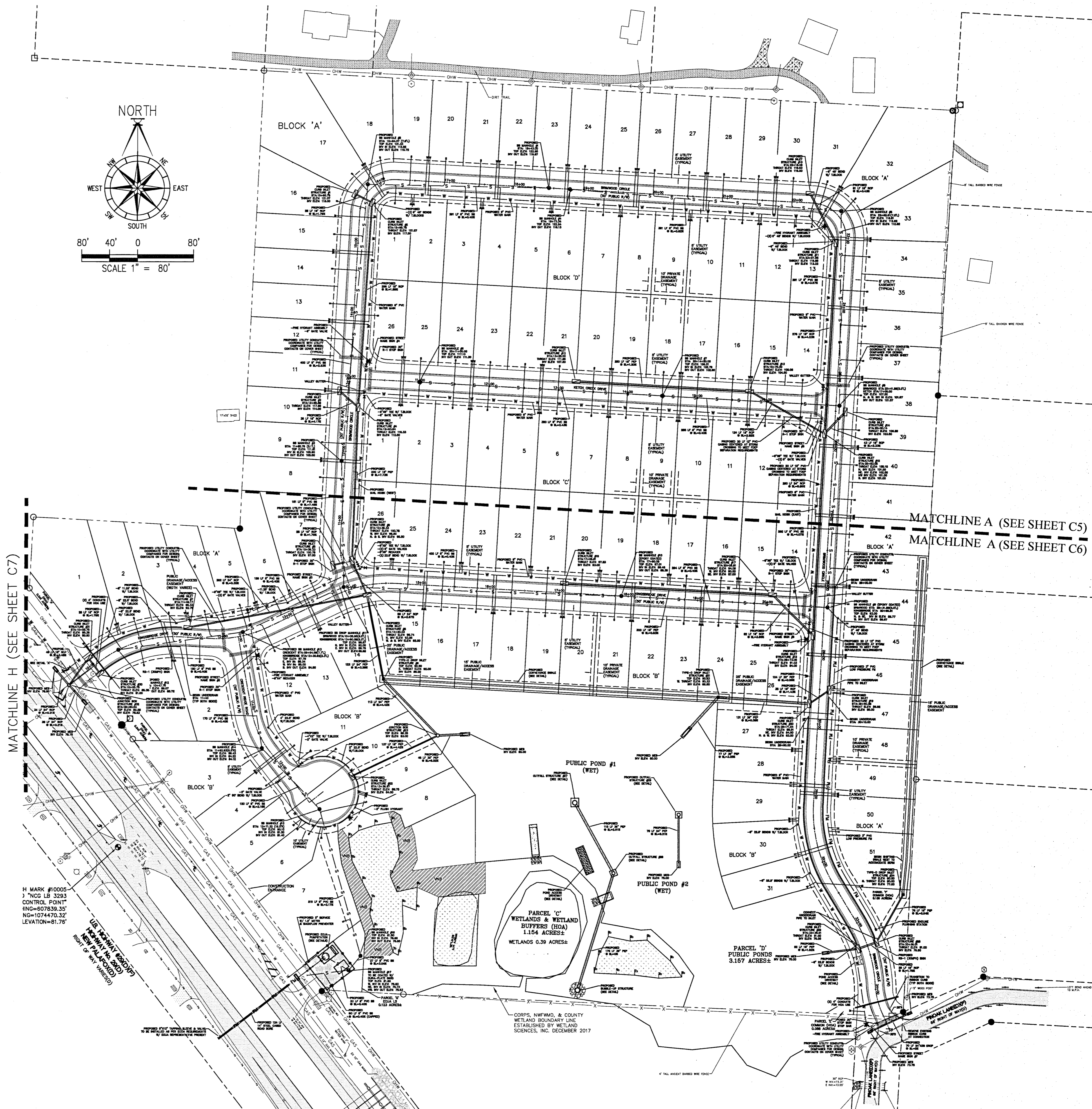
PLOT DATE: 3/31/21
SHEET: C3 OF C40



BUFFER AVERAGE WIDTH:
28,367 SF / 987 FT = 28.7' AVERAGE BUFFER WIDTH

WETLAND & BUFFER NOTES

1. NO LAND DISTURBANCE SHALL OCCUR IN AREAS DEFINED AS WETLANDS OR WETLAND BUFFERS UNLESS OTHERWISE PERMITTED BY THE JURISDICTIONAL AGENCIES.
2. WETLANDS & WETLAND/UPLAND BUFFERS SHALL REMAIN IN THEIR NATURAL STATE.



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL; ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.

DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALFOX STREET
PENSACOLA, FL 32504

TURTLE CREEK

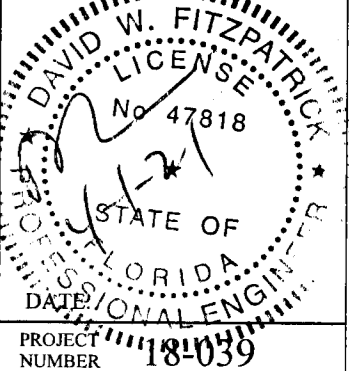
SITE/UTILITY PLAN

NUMBERS	REVISION	DATE
1	FDOT DRAINAGE COMMENT REVISIONS	12/14/20
2	ECUA COMMENT REVISIONS	2/26/21
3	BECAMILLA COUNTY COMMENT REVISIONS	3/31/21

DRAWN BY:
A. BURKETT

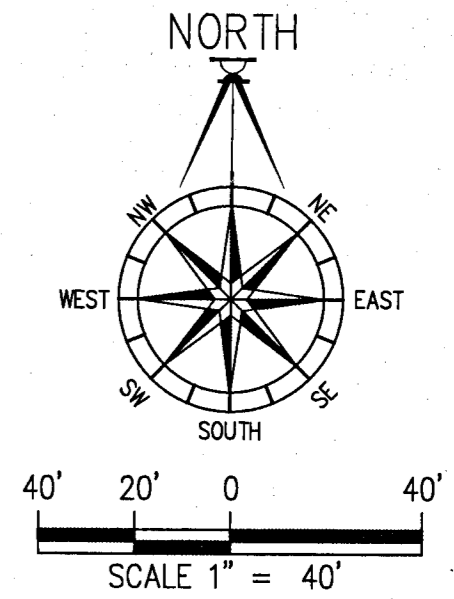
DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL



PLOT DATE	3/31/21
SHEET	C4 OF C40

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL.
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



DAVID W. FITZPATRICK
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10250 NORTH PALMAY STREET
DAVIE, FL 33317
PH: (850) 476-8877 FAX: (850) 476-7708

TURTLE CREEK
SITE/UTILITY PLAN (NORTH)

DATE	REVISION	DESCRIPTION
12/14/20	1	POD DRAINAGE COMMENTS REVISIONS
2/26/21	2	ECU COMMENT REVISIONS
3/31/21	3	FLORIDA COUNTY COMMENT REVISIONS

DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DAVID W. FITZPATRICK
P.E.
FLORIDA
LICENSE NO. 47818
DATE: 03/18/2021
PROJECT: 18-039

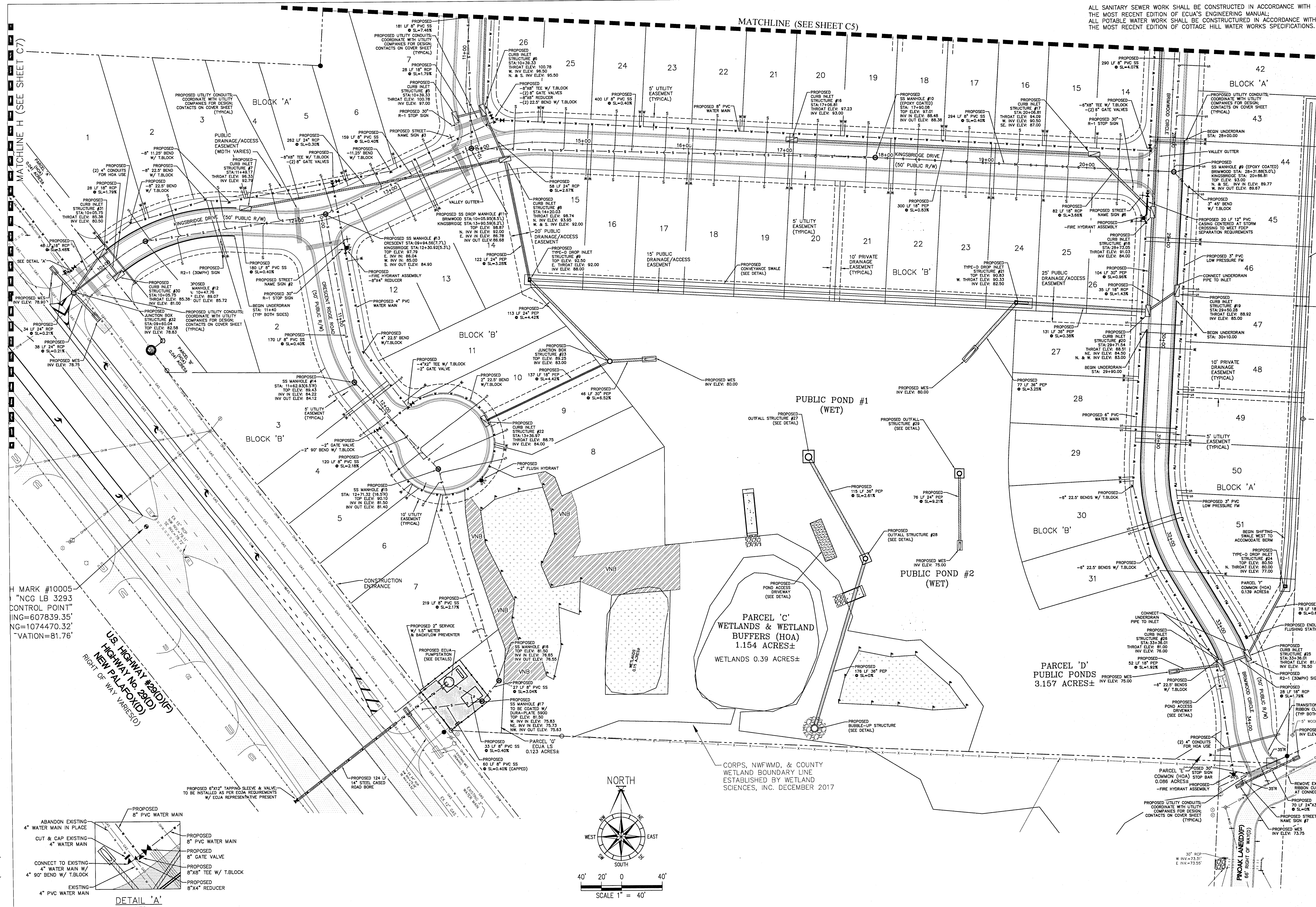
PLOT DATE: 3/31/21
SHEET: C5 OF C40



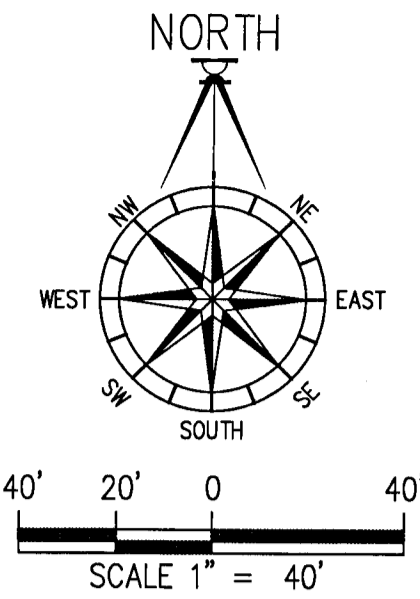
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALMFOX STREET
PENSACOLA, FL 32534
PH: (850)476-8677 FAX: (850)476-7708

[illegible]

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK
SIGNATURE & SEAL

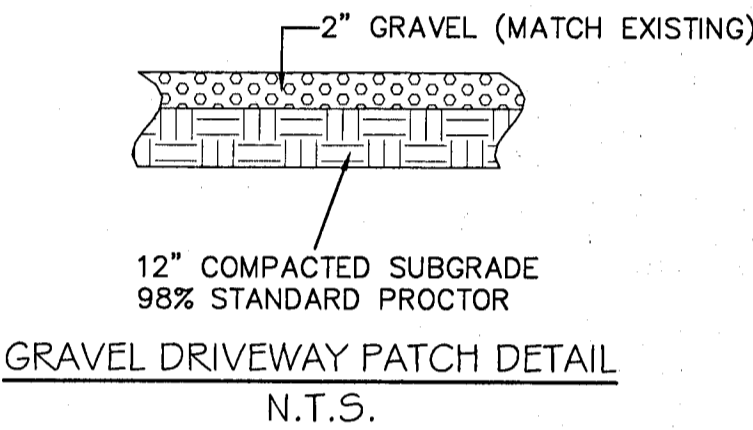


ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL.



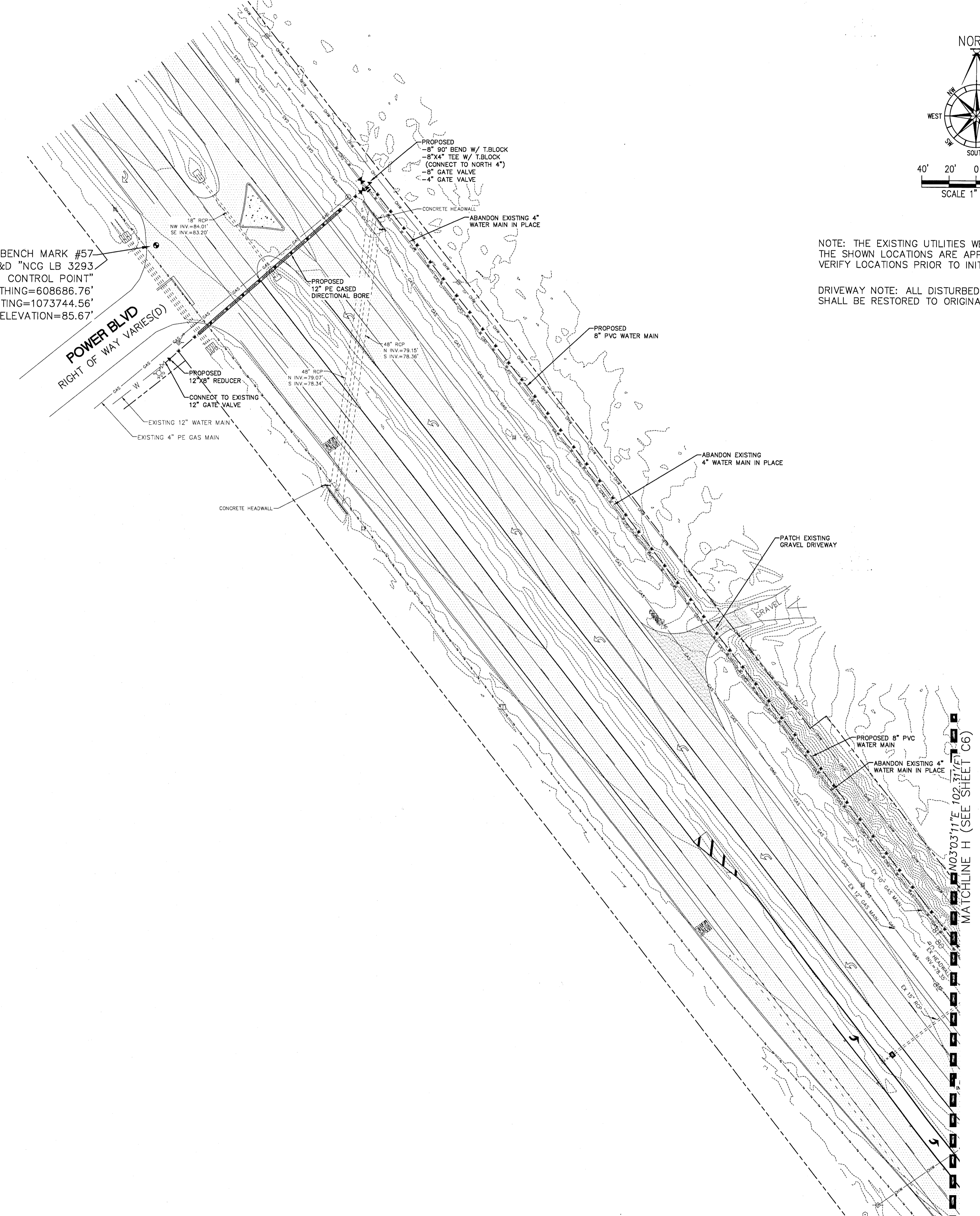
NOTE: THE EXISTING UTILITIES WERE NOT LOCATED OUT IN THE FIELD. THE SHOWN LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO INITIATING CONSTRUCTION

DRIVEWAY NOTE: ALL DISTURBED EXISTING DRIVEWAYS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION



BENCH MARK #57
SET N&D "NCG LB 3293
CONTROL POINT"
NORTHING=608686.76'
EASTING=1073744.56'
ELEVATION=85.67'

POWER BLVD
RIGHT OF WAY VARIES(0)



102 371.1' E
MATCHLINE H (SEE SHEET C6)

DAVID W. FITZPATRICK
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DAVIDSON, NC 28038
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TURTLE CREEK
SITE/UTILITY PLAN (OFFSITE)

REVISION	DATE
1	12/4/20
2	2/26/21
3	3/31/21

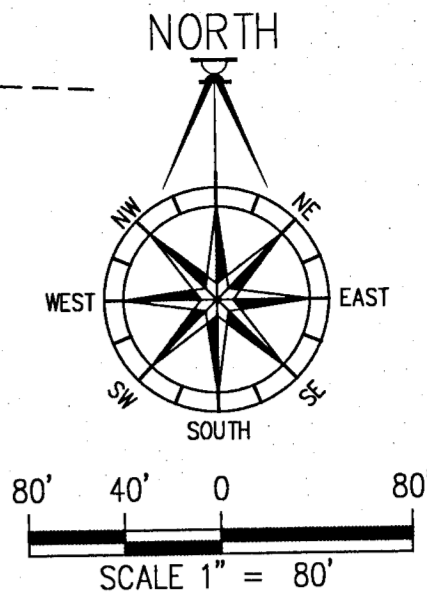
DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DAVID W. FITZPATRICK
No 47818
STATE OF NORTH CAROLINA
Professional Engineer
184030

PROJECT NUMBER: 184030
PLOT DATE: 3/31/21
SHEET C7 OF C40



DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALMFOX STREET
PENSACOLA, FL 32514
PH: (850) 776-8677 FAX: (850) 475-7706

TURTLE CREEK
DRAINAGE PLAN

REVISION	DATE	DESCRIPTION
1	12/10/20	FINAL DRAINAGE PLAN
2	03/01/21	ECUA COMMENT REVISIONS
3	03/01/21	ECUA COMMENT REVISIONS

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK
SIGNATURE & SEAL: DAVID W. FITZPATRICK, No. 47818, STATE OF FLORIDA, PROFESSIONAL ENGINEER
PROJECT NUMBER: 18-039
PLOT DATE: 3/31/21
SHEET: C8 OF C40

- CONSTRUCTION SEQUENCE:
- 1) INSTALL PERIMETER EROSION CONTROL MEASURES
 - 2) CLEAR AND GRUB AREAS REQUIRED TO BE CLEARED. ADD EROSION CONTROL MEASURES AT SPECIFIC TROUBLESOME AREAS.
 - 3) CONSTRUCT ALL OF PROJECT MONITORING EROSION CONTROL BMPs PER NPDES REQUIREMENTS.
 - 4) PROVIDE ASBUILT INFORMATION TO ENGINEER OF RECORD FOR FINAL CERTIFICATION.

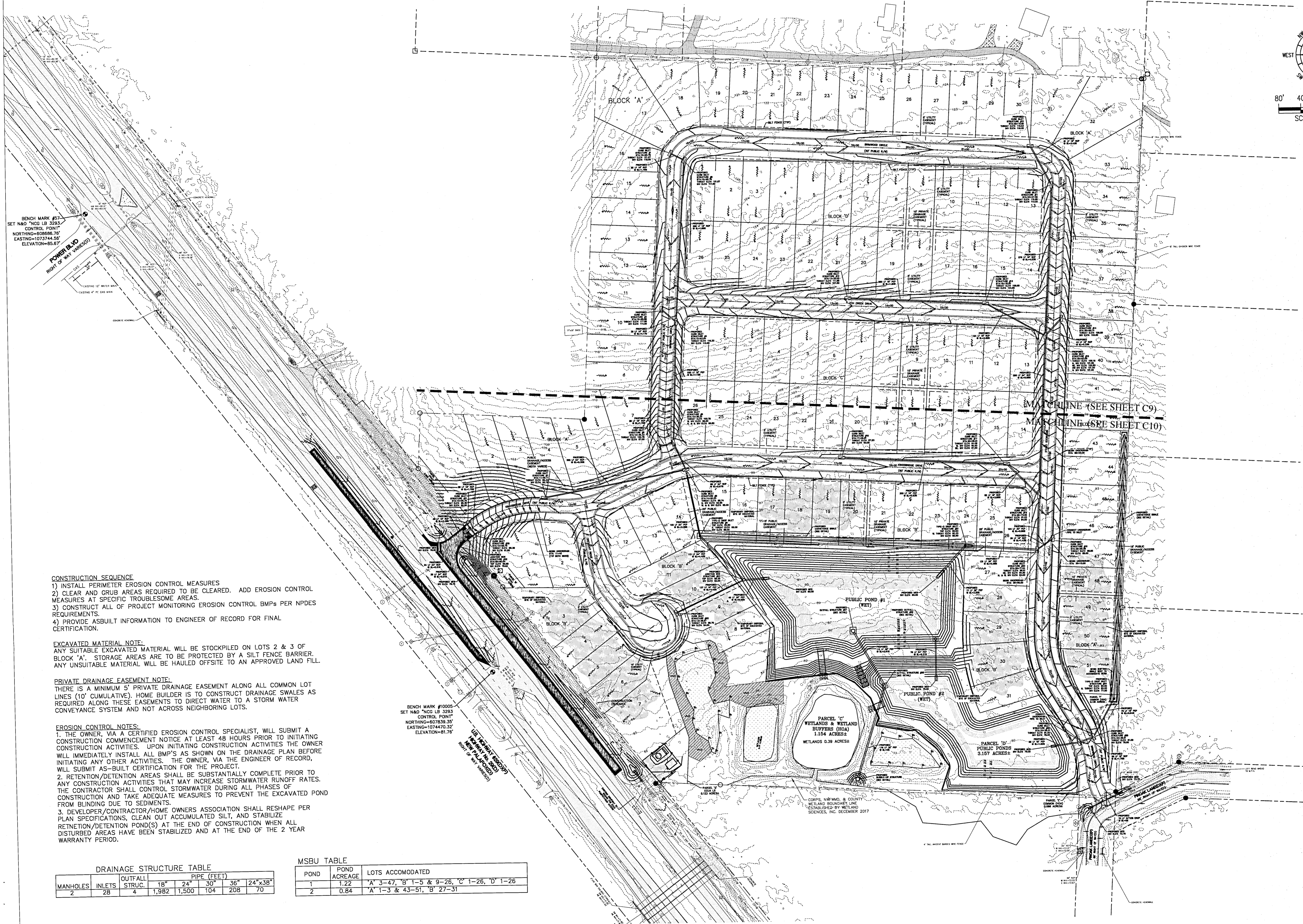
EXCAVATED MATERIAL NOTE:
ANY SUITABLE EXCAVATED MATERIAL WILL BE STOCKPILED ON LOTS 2 & 3 OF BLOCK 'A'. STORAGE AREAS ARE TO BE PROTECTED BY A SILT FENCE BARRIER. ANY UNSUITABLE MATERIAL WILL BE HAULED OFFSITE TO AN APPROVED LAND FILL.

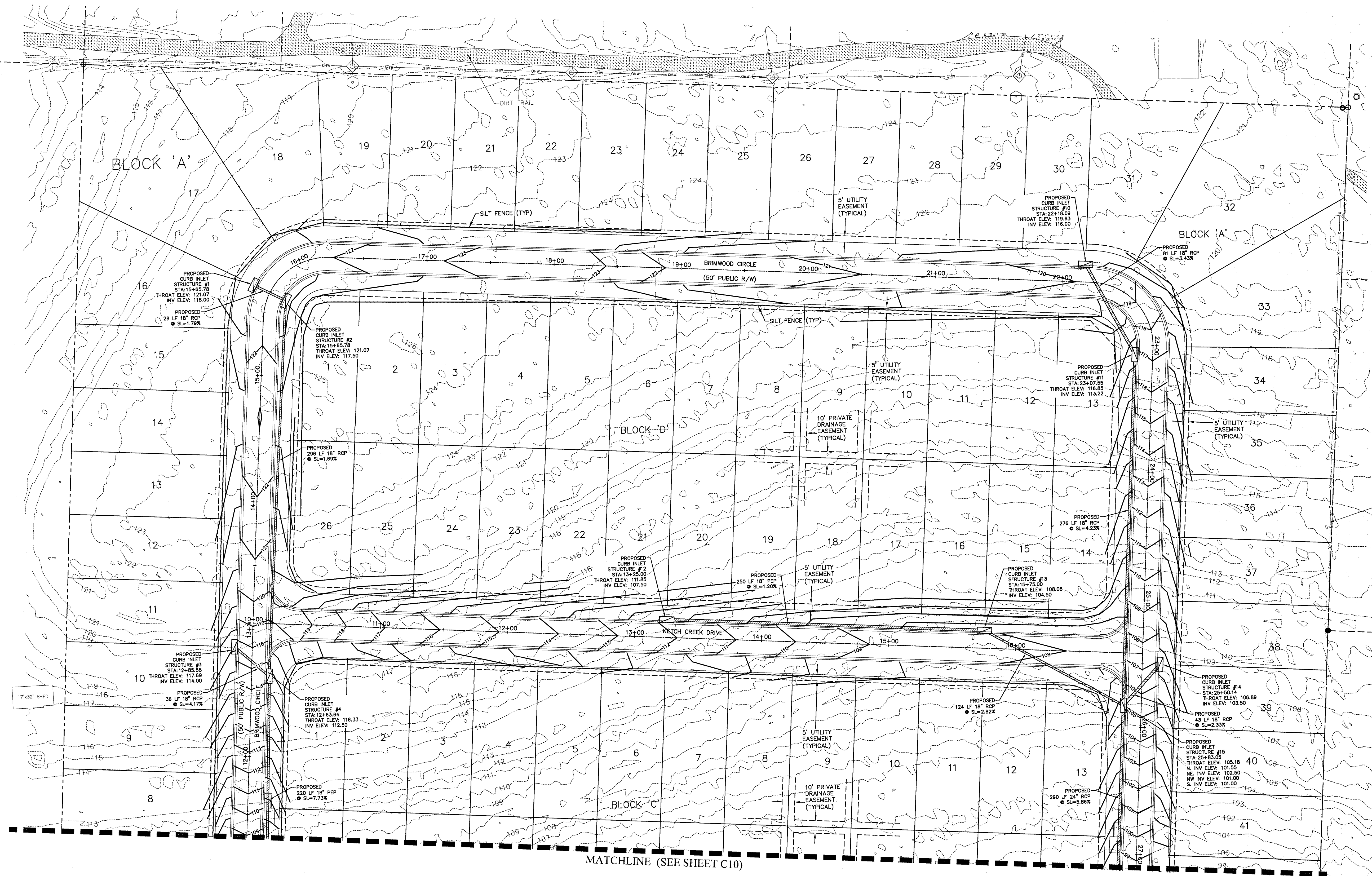
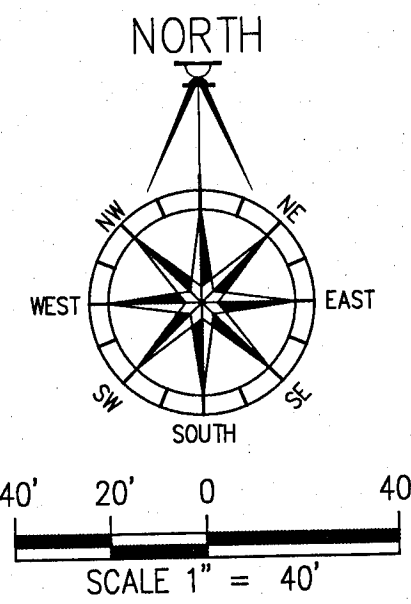
PRIVATE DRAINAGE EASEMENT NOTE:
THERE IS A MINIMUM 5' PRIVATE DRAINAGE EASEMENT ALONG ALL COMMON LOT LINES (10' CUMULATIVE). HOME BUILDER IS TO CONSTRUCT DRAINAGE SWALES AS REQUIRED ALONG THESE EASEMENTS TO DIRECT WATER TO A STORM WATER CONVEYANCE SYSTEM AND NOT ACROSS NEIGHBORING LOTS.

- EROSION CONTROL NOTES:
1. THE OWNER, VIA A CERTIFIED EROSION CONTROL SPECIALIST, WILL SUBMIT A CONSTRUCTION COMMENCEMENT NOTICE AT LEAST 48 HOURS PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. UPON INITIATING CONSTRUCTION ACTIVITIES THE OWNER WILL IMMEDIATELY INSTALL ALL BMPs AS SHOWN ON THE DRAINAGE PLAN BEFORE INITIATING ANY OTHER ACTIVITIES. THE OWNER, VIA THE ENGINEER OF RECORD, WILL SUBMIT AS-BUILT CERTIFICATION FOR THE PROJECT.
 2. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
 3. DEVELOPER/CONTRACTOR/HOME OWNERS ASSOCIATION SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND AT THE END OF THE 2 YEAR WARRANTY PERIOD.

DRAINAGE STRUCTURE TABLE					
MANHOLES	INLETS	OUTFALL STRUC.	PIPE (FEET)		
2	28	4	18"	24"	30"
			1,982	1,500	104
					208
					70

MSBU TABLE		
POND	POND ACREAGE	LOTS ACCOMMODATED
1	1.22	'A' 3-47, 'B' 1-5 & 9-26, 'C' 1-26, 'D' 1-26
2	0.84	'A' 1-3 & 43-51, 'B' 27-31





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TURTLE CREEK
DRAINAGE PLAN (NORTH)

DATE	12/14/01
REVISION	1
REVISION	2
REVISION	3
REVISION	4
REVISION	5
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REVISION	97
REVISION	98
REVISION	99
REVISION	100

DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DAVID W. FITZPATRICK
LICENSE
No. 47818
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
PROJECT NUMBER
18-0099

PLOT DATE
3/31/21

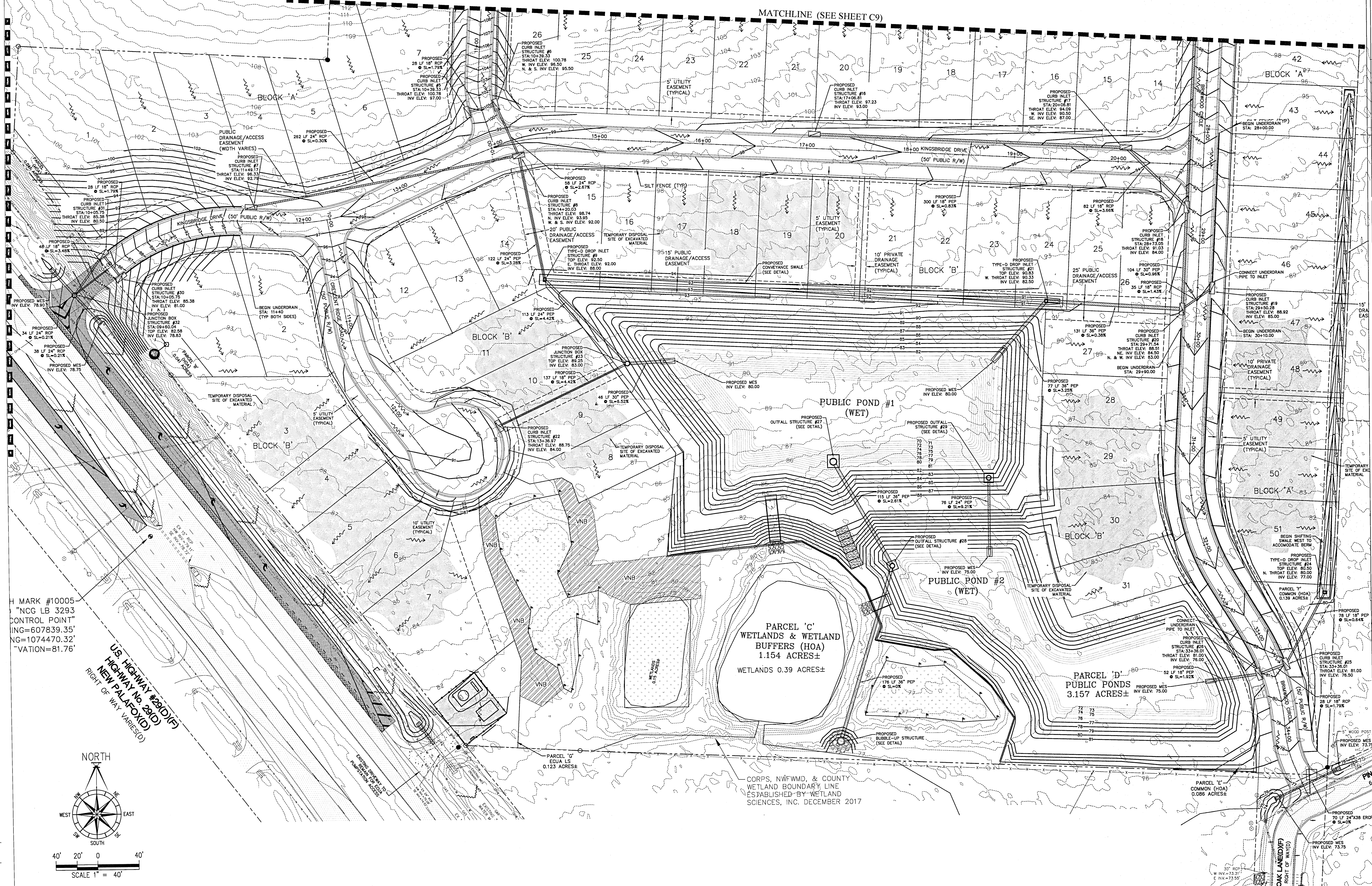
SHEET
C9 OF C40

DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.E.
BOARD OF PROFESSIONAL REGULATION #00008423
1025 S. GULF BLVD., SUITE 100
PENSACOLA, FL 32504
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TURTLE CREEK
DRAINAGE PLAN (SOUTH)

DATE	REVISION	DESCRIPTION
12/14/20	1	INITIAL DESIGN
01/28/21	2	REVISIONS
03/01/21	3	REVISIONS
03/01/21	4	REVISIONS
03/01/21	5	REVISIONS
03/01/21	6	REVISIONS
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03/01/21	99	REVISIONS
03/01/21	100	REVISIONS

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK
SIGNATURE & SEAL
DAVID W. FITZPATRICK
P.E. No. 47818
STATE OF FLORIDA
DATE: 3/31/21
PROJECT NUMBER: 18-039
PLOT DATE: 3/31/21
SHEET C10 OF C40



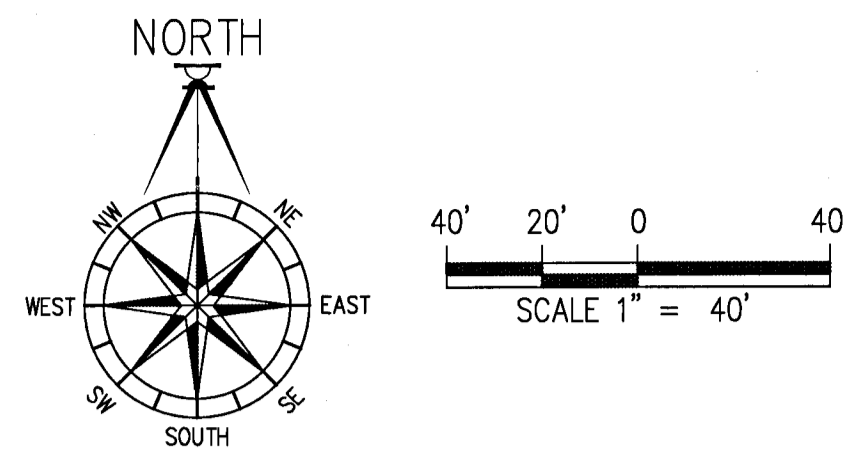
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"NCG LB 3293
CONTROL POINT"
ING=607839.35'
NG=1074470.32'
VATION=81.76'

U.S. HIGHWAY #290 (D/F)
HIGHWAY No. 290 (D/F)
NEW PALM FOX (D/F)
RIGHT OF WAY (VARIES)

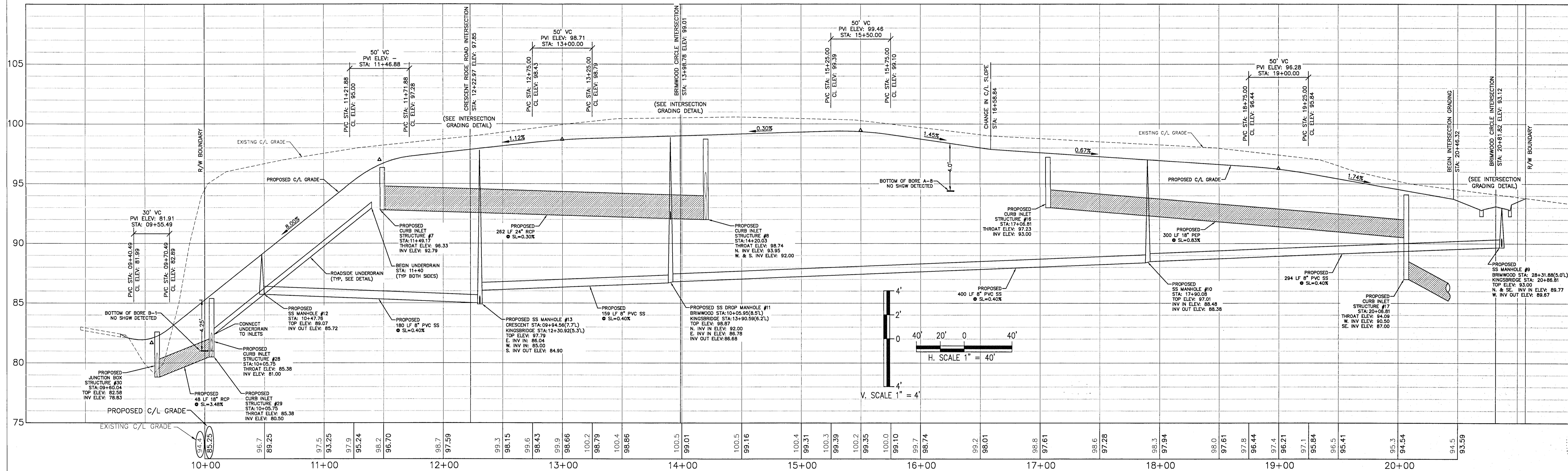
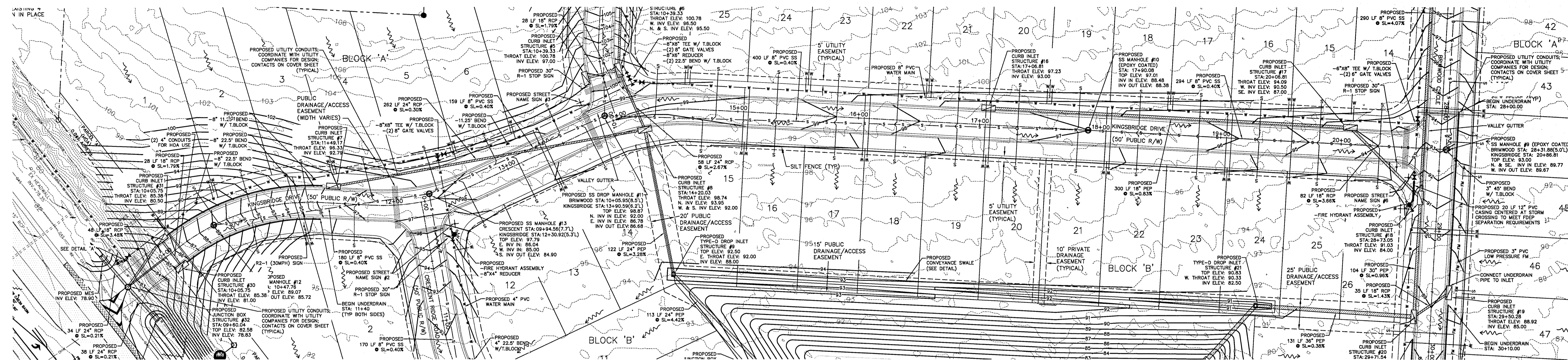
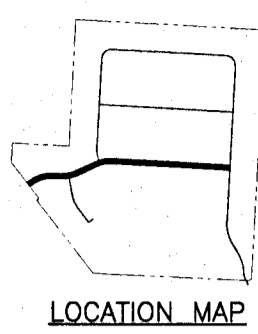


SCALE 1" = 40'

CORPS, NFWMD, & COUNTY
WETLAND BOUNDARY LINE
ESTABLISHED BY WETLAND
SCIENCES, INC. DECEMBER 2017



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
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DAVID W. FITZPATRICK
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PH: (850) 476-8877 FAX: (850) 476-7708

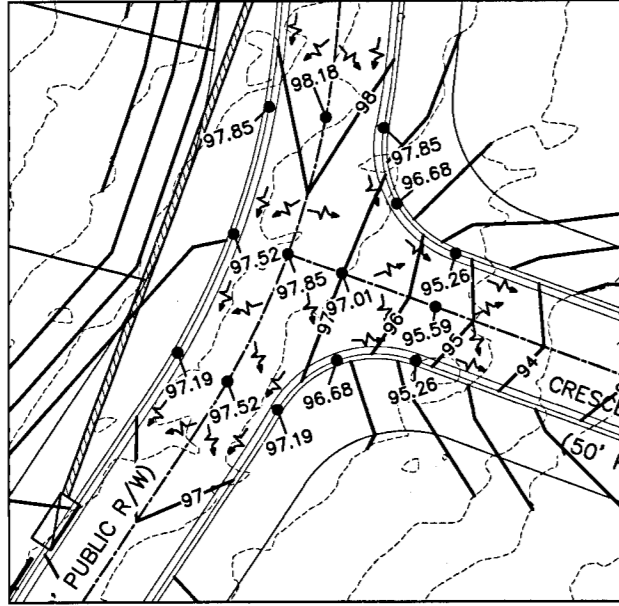
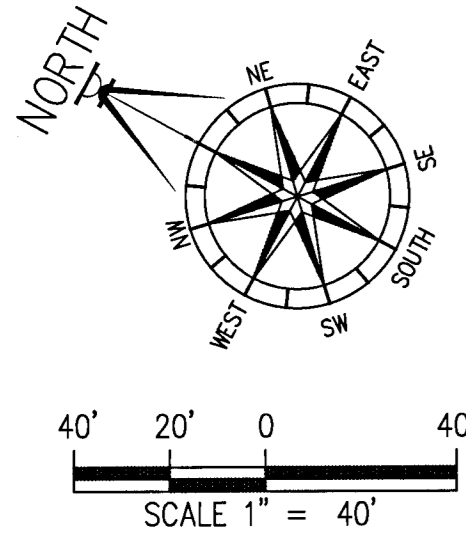
TURTLE CREEK

KINGSBRIDGE DRIVE - PLAN / PROFILE

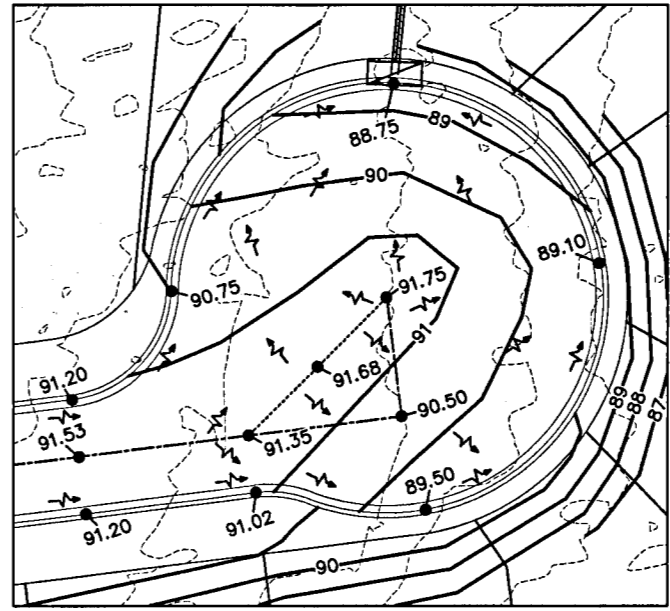
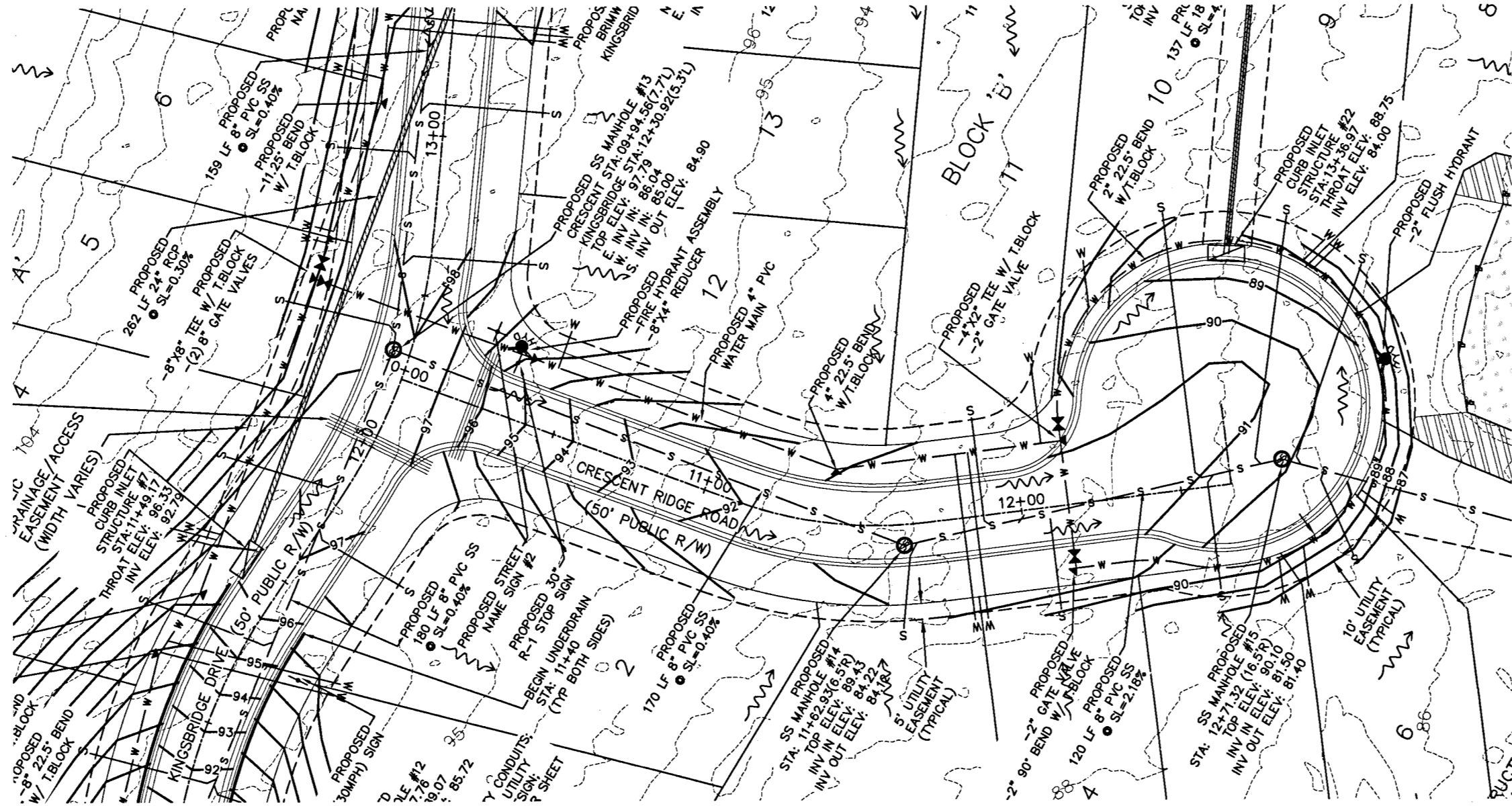
DATE	REVISION	DESCRIPTION
12/23/20	1	POST DRAINAGE COMMENT REVISIONS
2/26/21	2	ECUA COMMENT REVISIONS
3/31/21	3	ESC/ABMA COUNTY COMMENT REVISIONS

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK

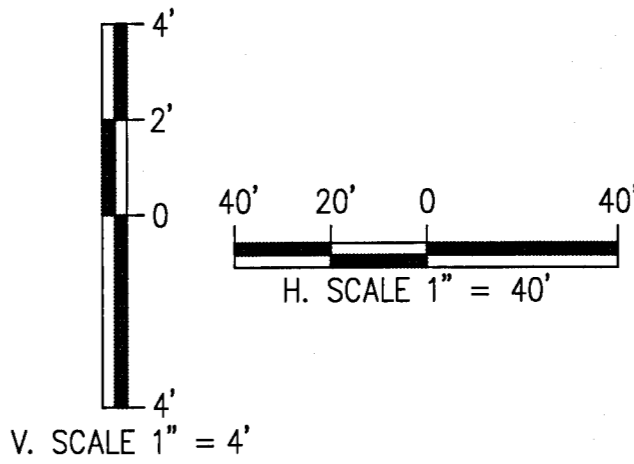
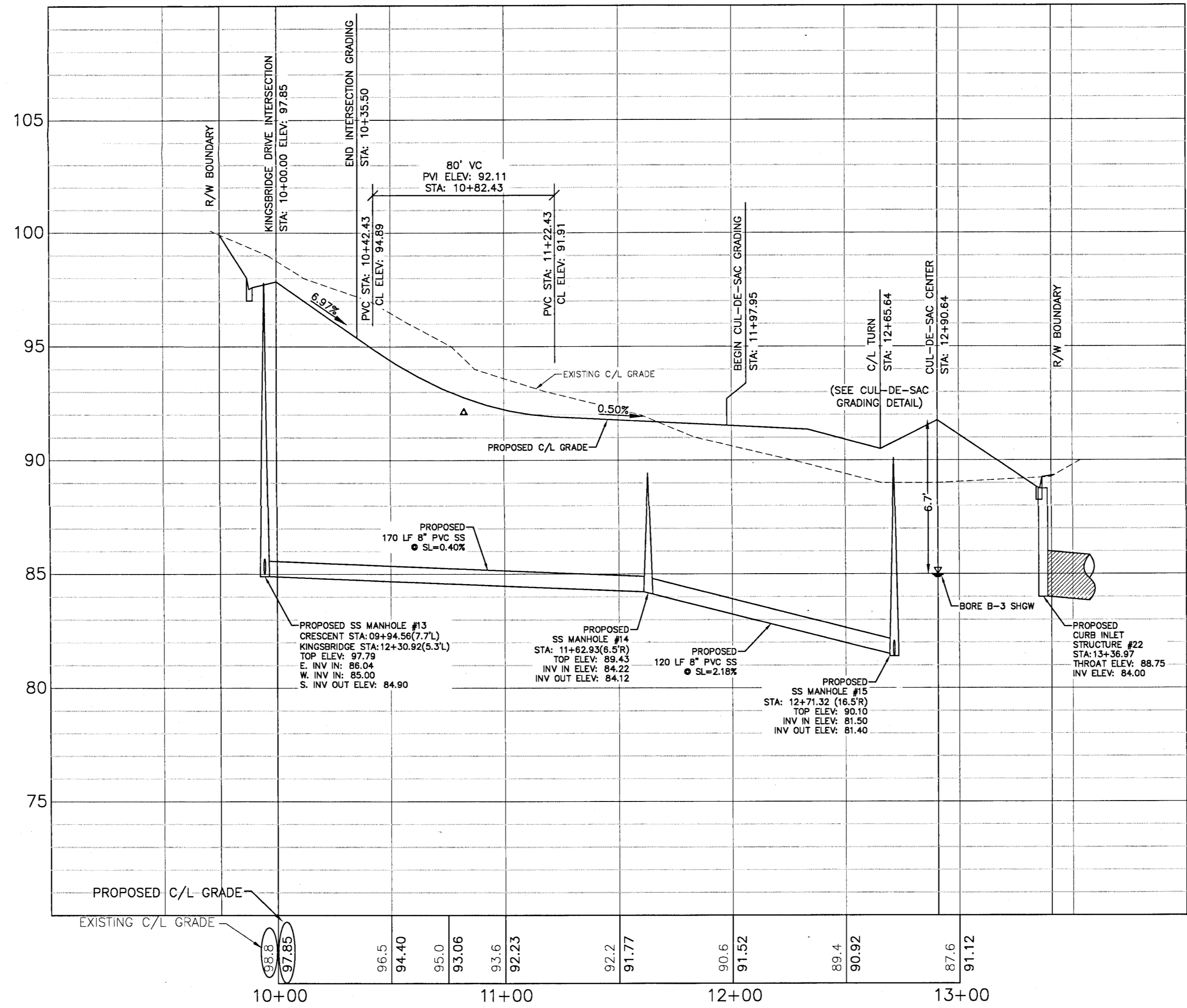
SIGNATURE & SEAL
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER
STATE OF FLORIDA
DATE: 3/31/21
PROJECT NUMBER: 18-039
PLOT DATE: 3/31/21
SHEET C11 OF C40



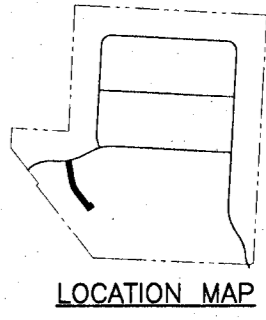
INTERSECTION GRADING DETAIL



CUL-DE-SAC GRADING DETAIL



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
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DAVID W. FITZPATRICK
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FORT MYERS, FL 33913
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TURTLE CREEK
CRESCENT RIDGE DRIVE - PLAN / PROFILE

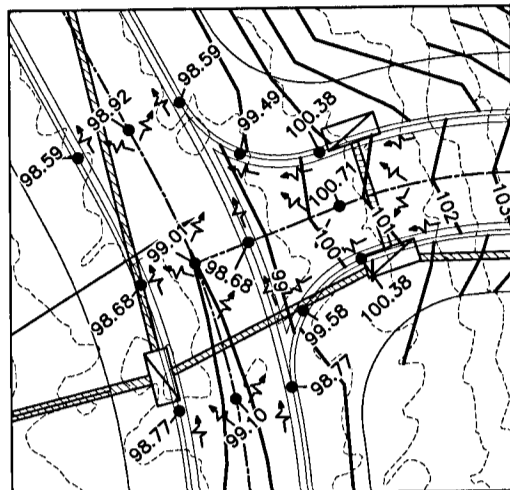
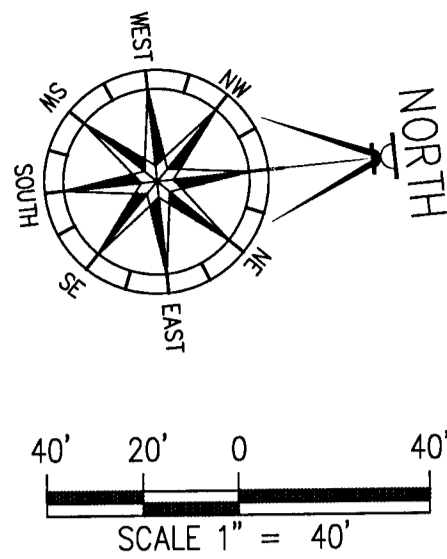
REVISION	DATE
1	12/14/20
2	2/26/21
3	3/31/21

NUMBER	REVISION
1	FOR DRAMATIC COMMENT REVISIONS
2	ECUA COMMENT REVISIONS
3	BOCA RATON COUNTY COMMENT REVISIONS

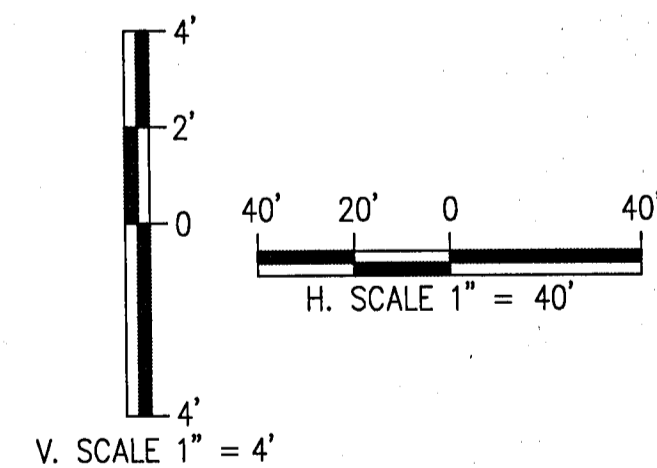
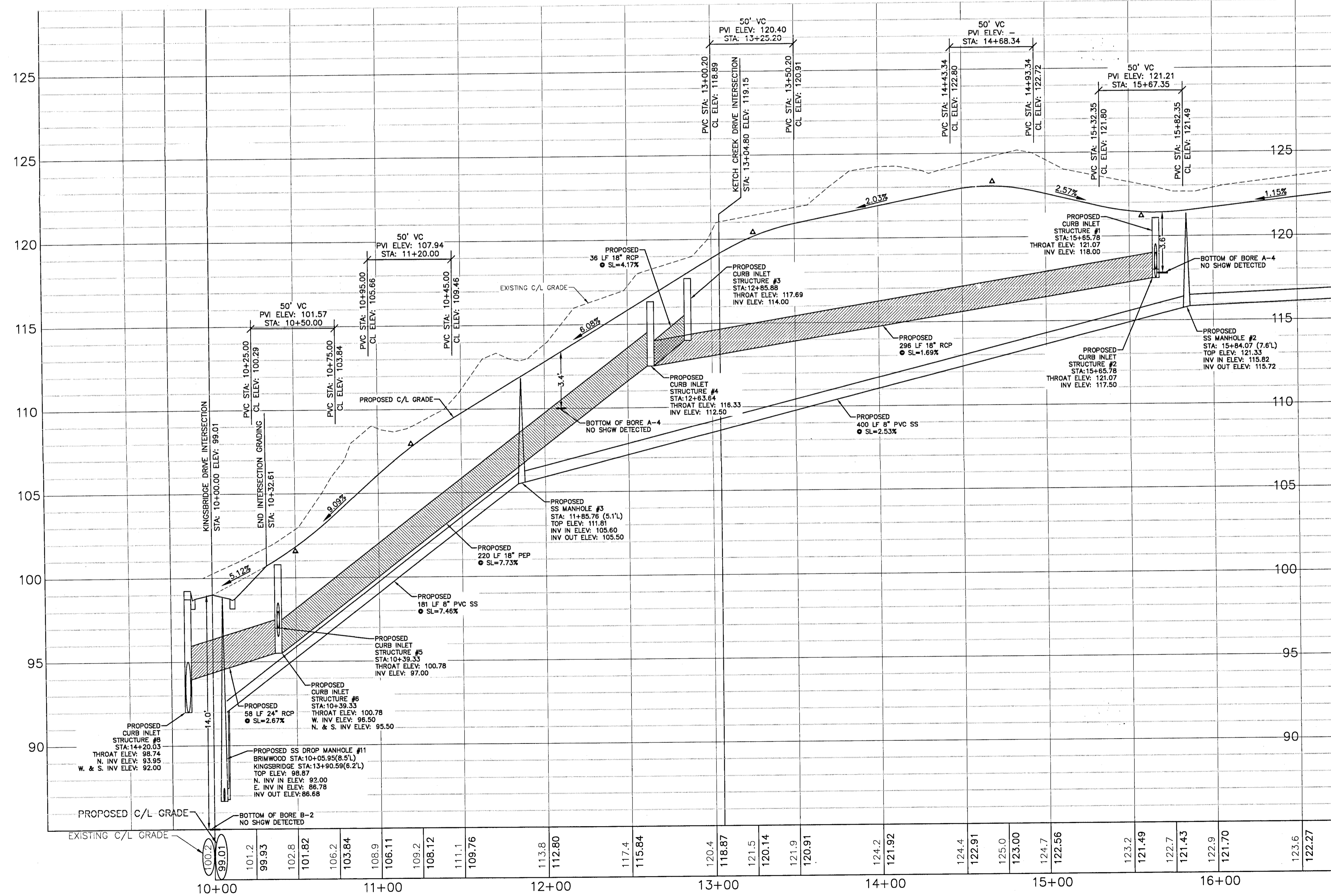
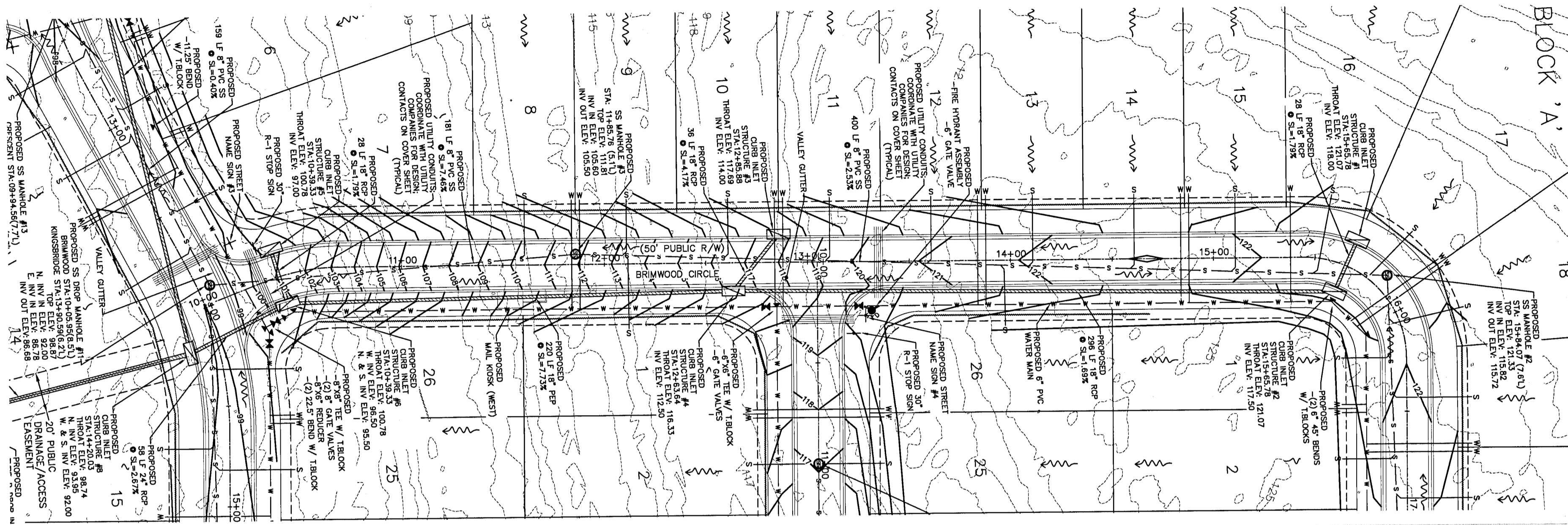
DRAWN BY:	A. BURKETT
DESIGNED BY:	D. FITZPATRICK

PROJECT NUMBER	18-039
PLOT DATE	3/31/21
SHEET	C12 of C40

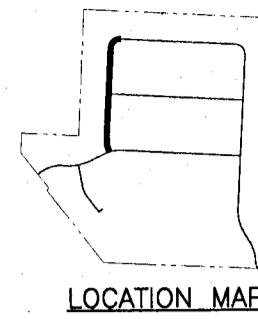
DAVID W. FITZPATRICK
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 47818
DATE: 3/31/21



INTERSECTION GRADING DETAIL



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL. ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



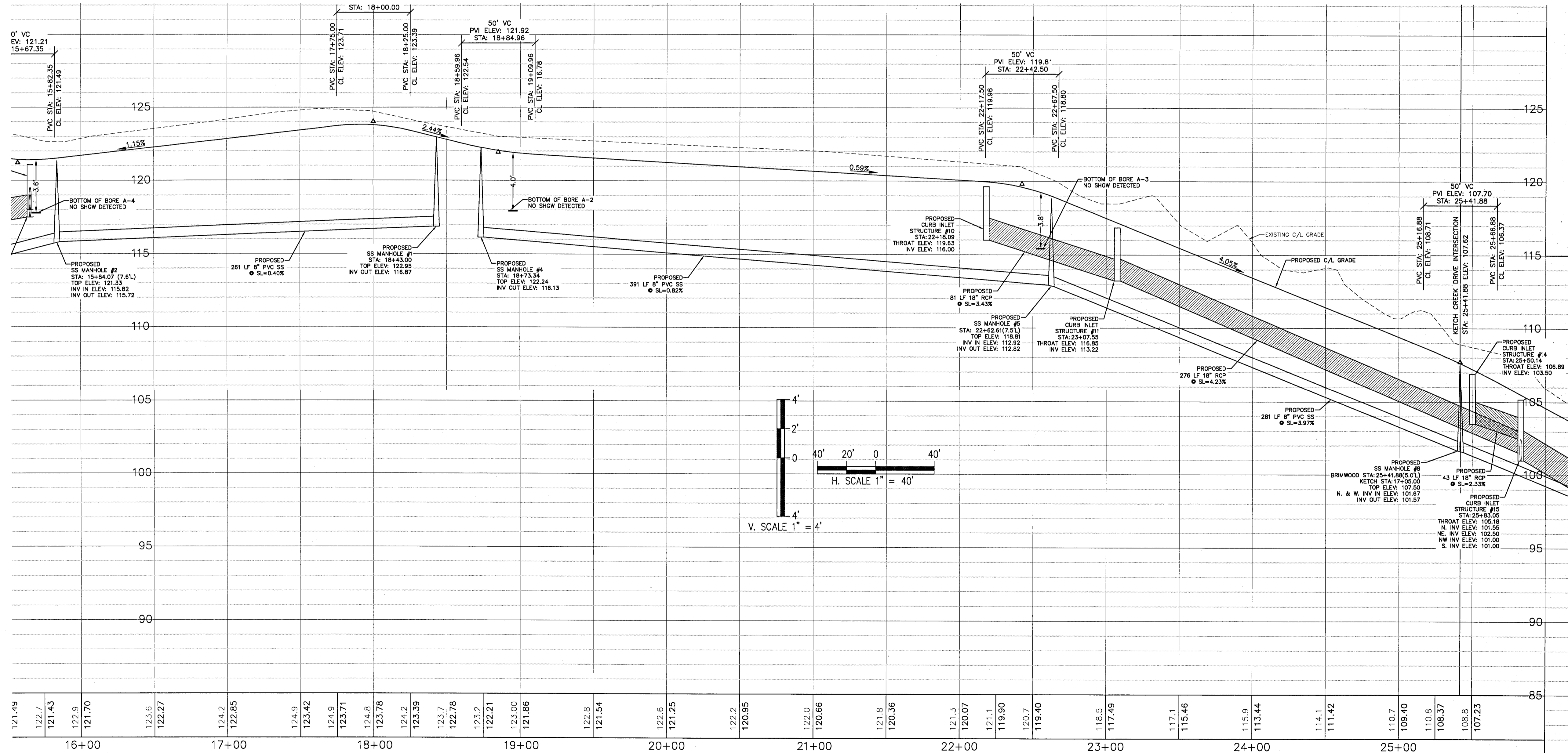
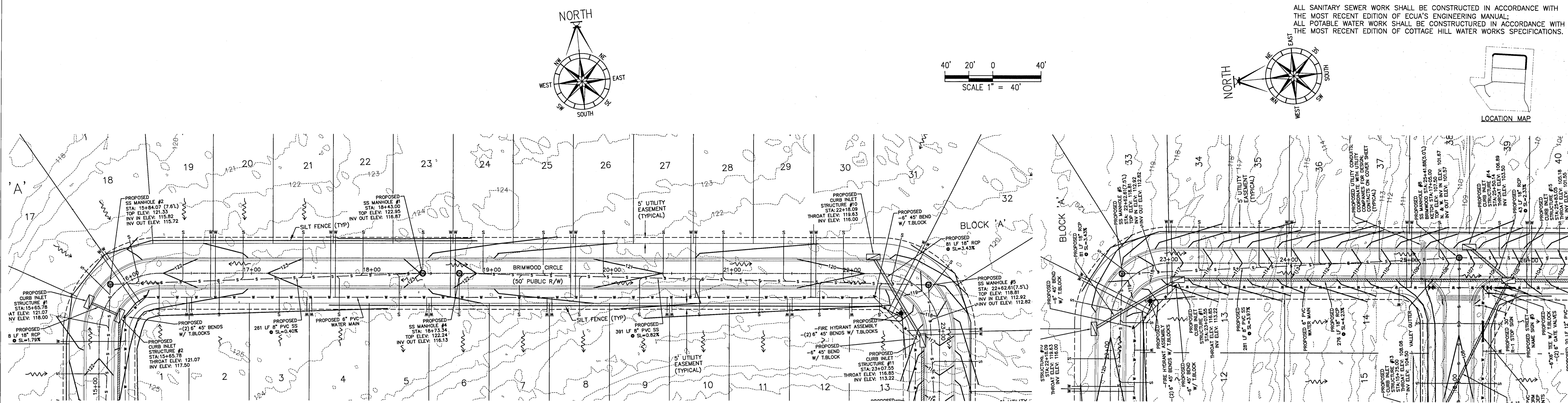
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
1025 SOUTH AVENUE, SUITE 300
PENSACOLA, FL 32504
PH: (850) 476-8677 FAX: (850) 476-7708

TURTLE CREEK

BRIMWOOD CIRCLE - PLAN / PROFILE

REVISION	DATE	BY	CHKD
1	12/1/09	A. BURKETT	
2	2/26/10	D. FITZPATRICK	
3	3/31/10		

DRAWN BY: A. BURKETT	SIGNATURE & SEAL DAVID W. FITZPATRICK No. 47818 STATE OF FLORIDA PROFESSIONAL ENGINEER
DESIGNED BY: D. FITZPATRICK	PROJECT NUMBER 18-039
	PLOT DATE 3/31/21
	SHEET C13 OF C40



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.

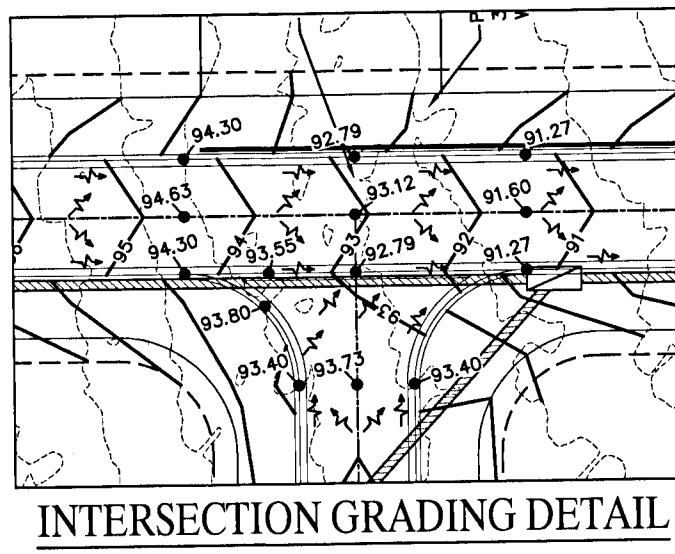
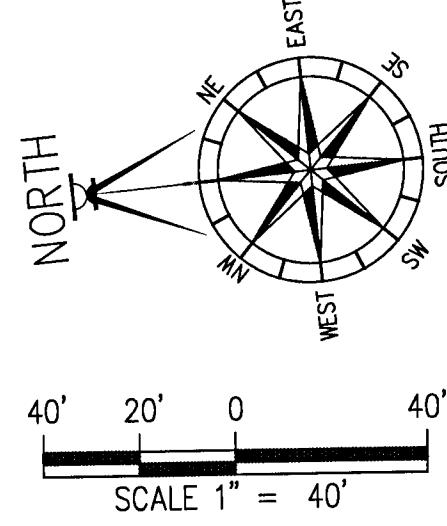
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.E.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALMAY STREET
DAVIDSON, NC 28038
PH: (850) 776-8877 FAX: (850) 476-7708

TURTLE CREEK

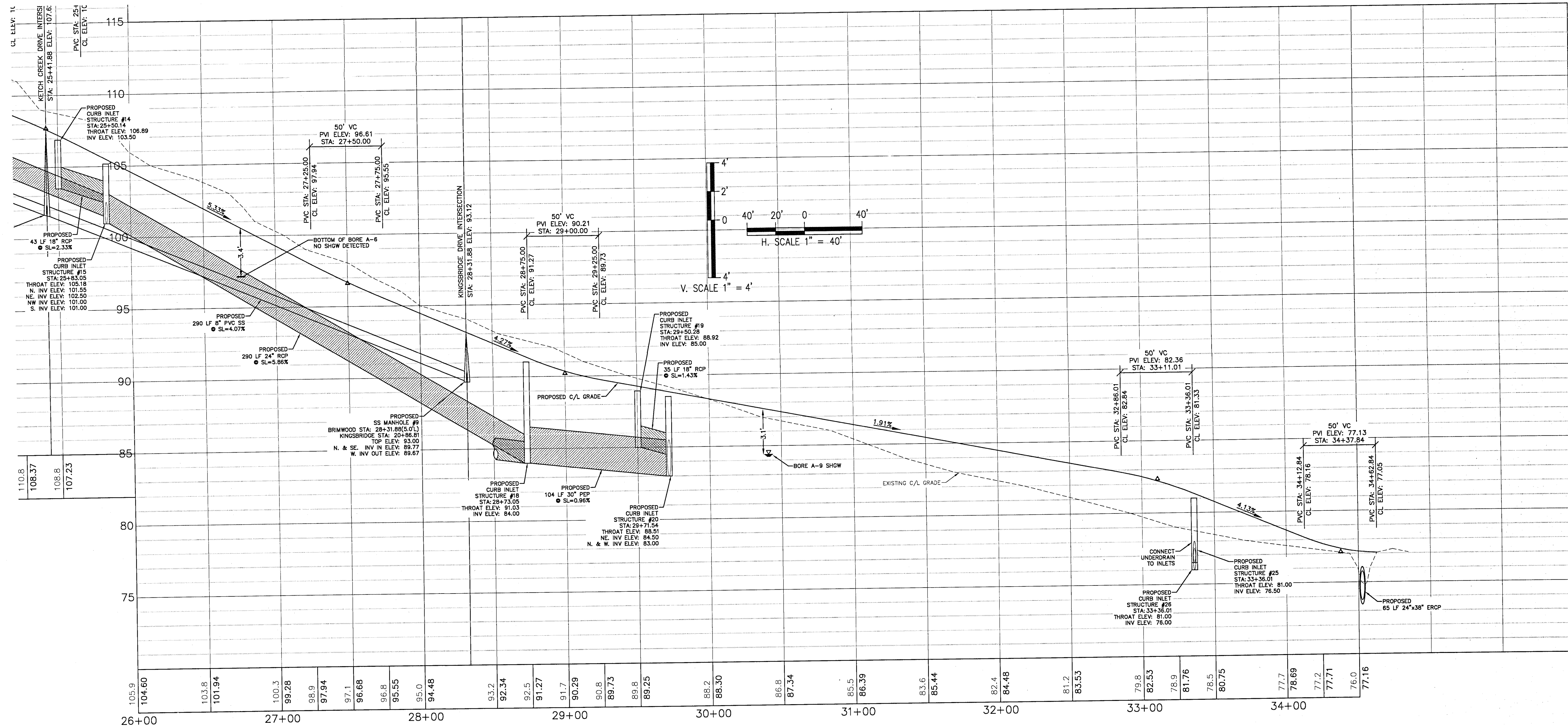
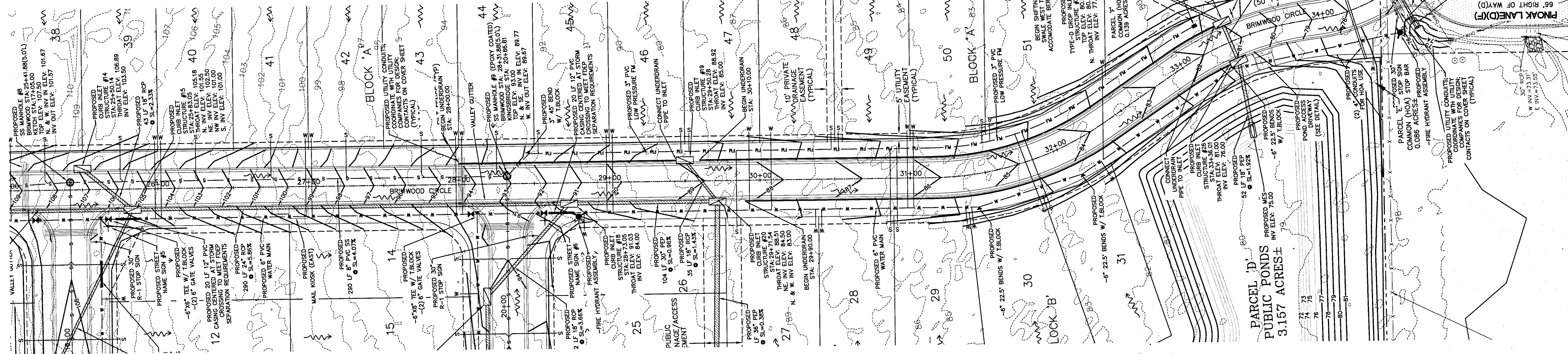
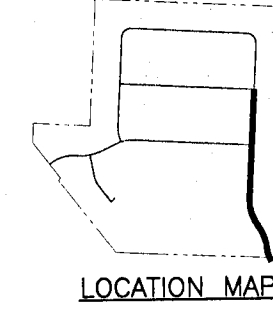
BRIMWOOD CIRCLE - PLAN / PROFILE

REVISION	DATE	BY	DESCRIPTION
1	2/2/20	DAVID W. FITZPATRICK	ECUA COMMENT REVISIONS
2	2/26/21	DAVID W. FITZPATRICK	ECUA COMMENT REVISIONS
3	3/31/21	DAVID W. FITZPATRICK	ECUA COMMENT REVISIONS

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK
SIGNATURE & SEAL
DAVID W. FITZPATRICK
P.E. # 47818
STATE OF FLORIDA
PROJECT NUMBER
18-039
PLOT DATE
3/31/21
SHEET C14 OF C40



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.E.
BOARD OF PROFESSIONAL REGULATION #00009423
10250 NORTH PALMWAY STREET
PENSACOLA, FL 32514
PH: (850) 476-8677 FAX: (850) 476-7708

TURTLE CREEK
BRIMWOOD CIRCLE - PLAN / PROFILE

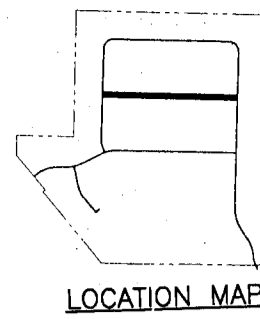
REVISION	DATE	BY	APP'D
1	12/4/20	A. BURKETT	
2	2/26/21	D. FITZPATRICK	
3	3/31/21		

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK

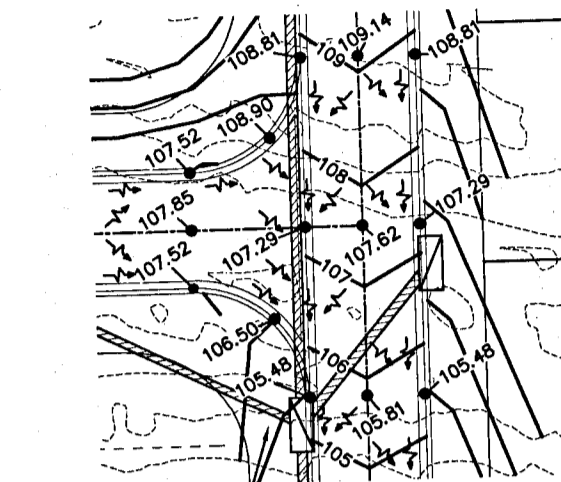
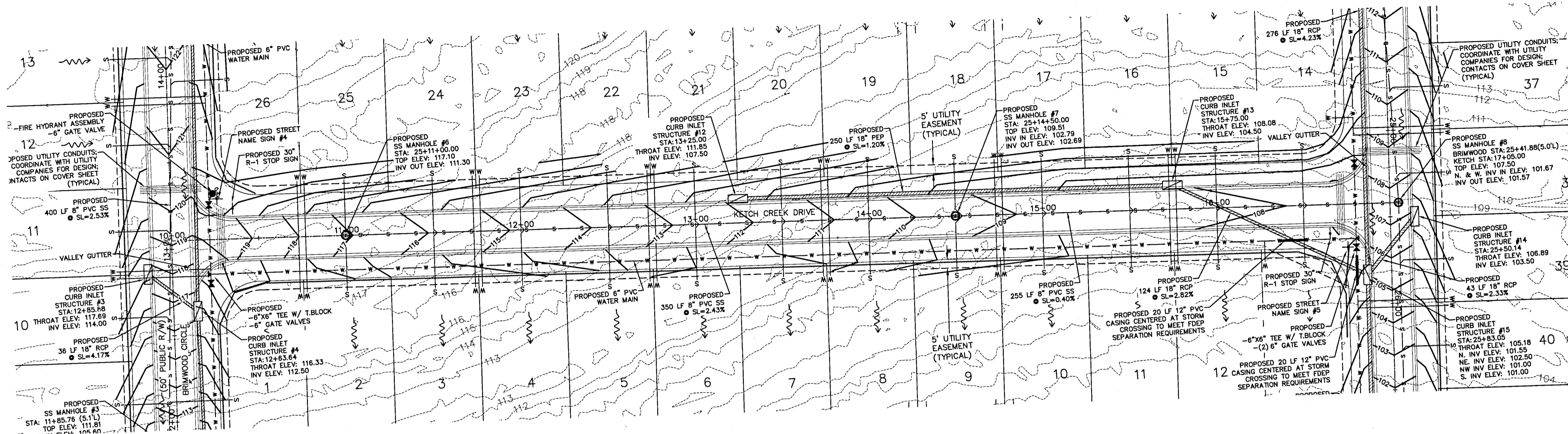
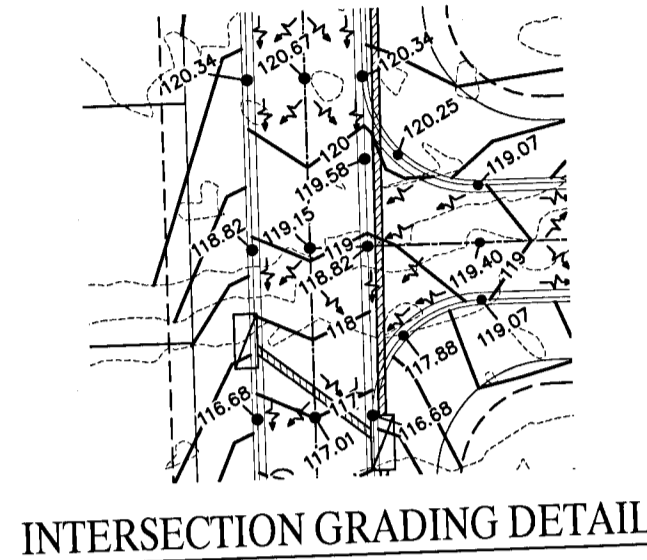
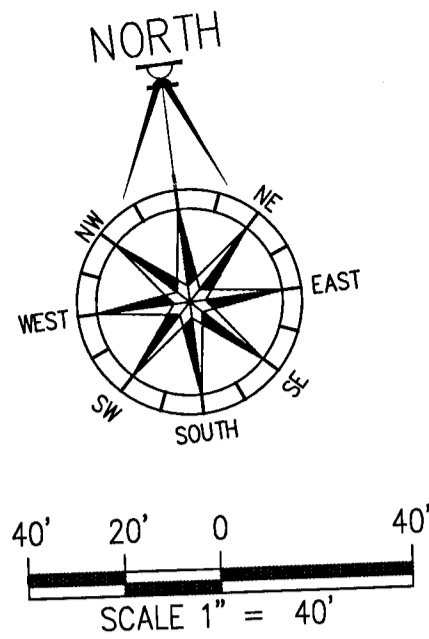
SIGNATURE OF PROFESSIONAL ENGINEER
DAVID W. FITZPATRICK
No. 47818
STATE OF FLORIDA
LICENSED PROFESSIONAL ENGINEER
DATE: 3/31/21

PROJECT NUMBER: 18-039
PLOT DATE: 3/31/21
SHEET C15 OF C40

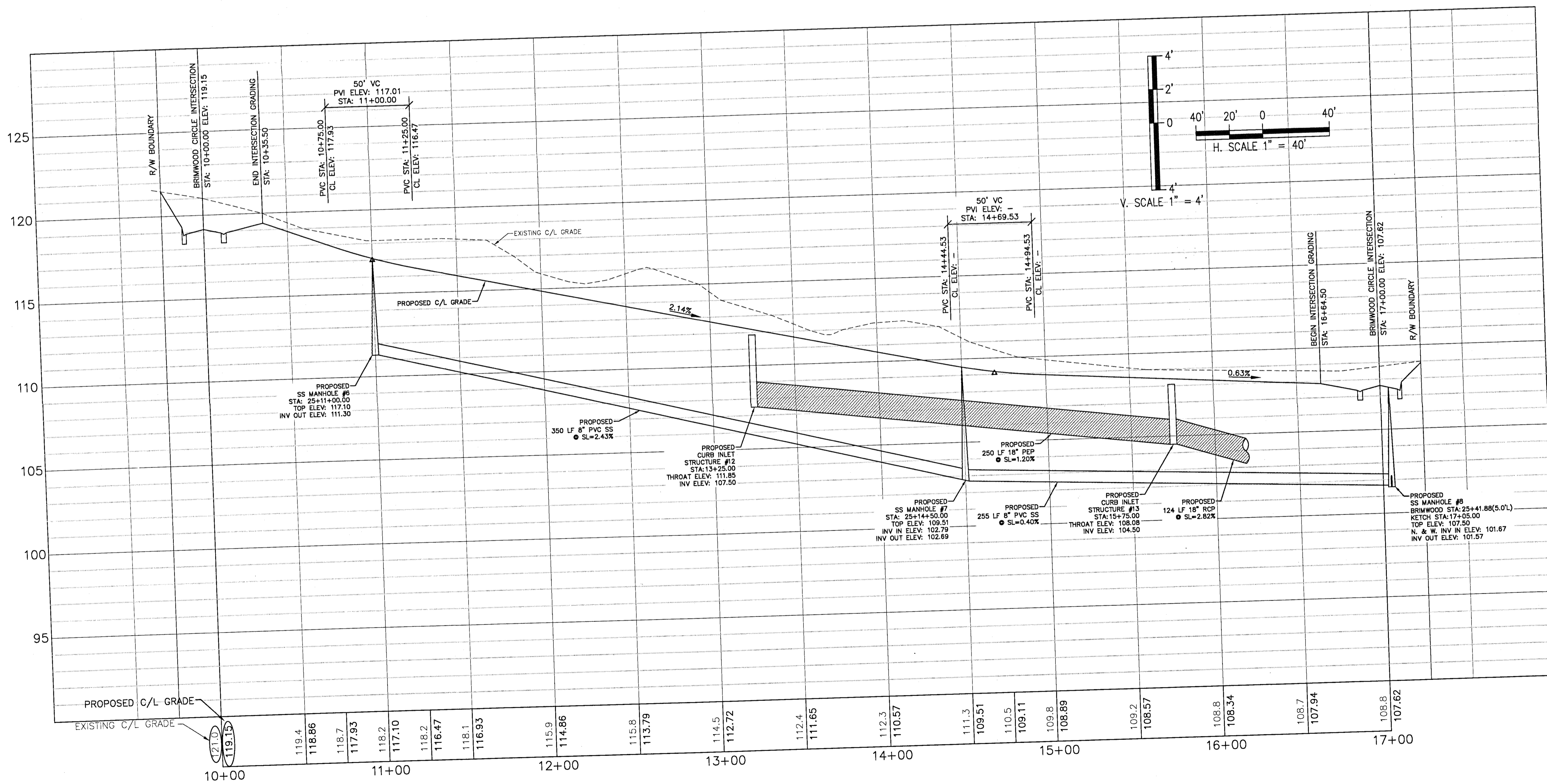
ALL SANITARY SEWER
THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH
THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



DAVID W. FITZPATRICK
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1025 W. WILSON STREET
PENSACOLA, FL 32504
PH: (850) 476-8677 FAX: (850) 476-7708



INTERSECTION GRADING DETAIL



TURTLE CREEK

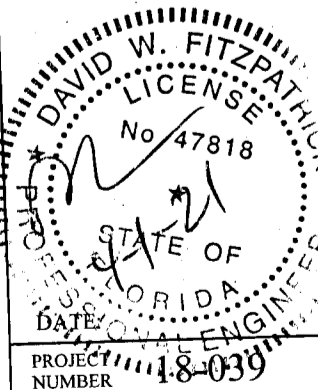
KETCH CREEK DRIVE - PLAN / PROFILE

DATE	REVISION	DESCRIPTION
07/10/09	1	FOOT DRAINAGE COMMENT REVISIONS
2/26/11	2	ECUA COMMENT REVISIONS
5/11/11	3	ESCAMBA COUNTY COMMENT REVISIONS

DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

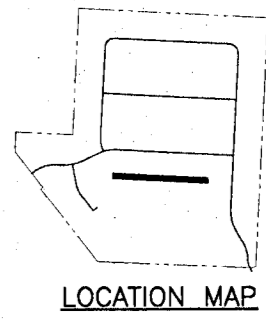


PROJECT NUMBER:
18-039

PLOT DATE:
3/31/21

SHEET
C16 OF C40

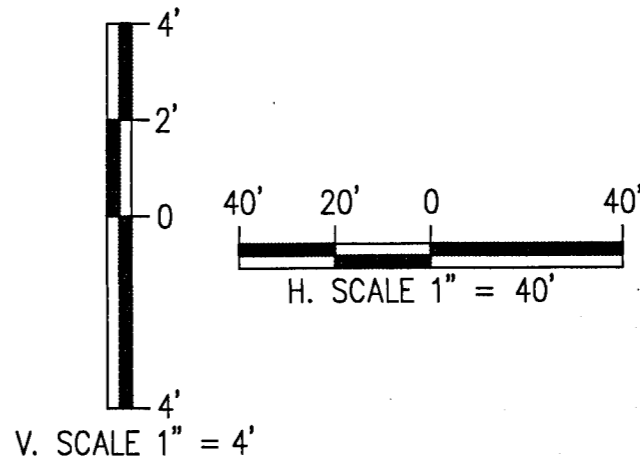
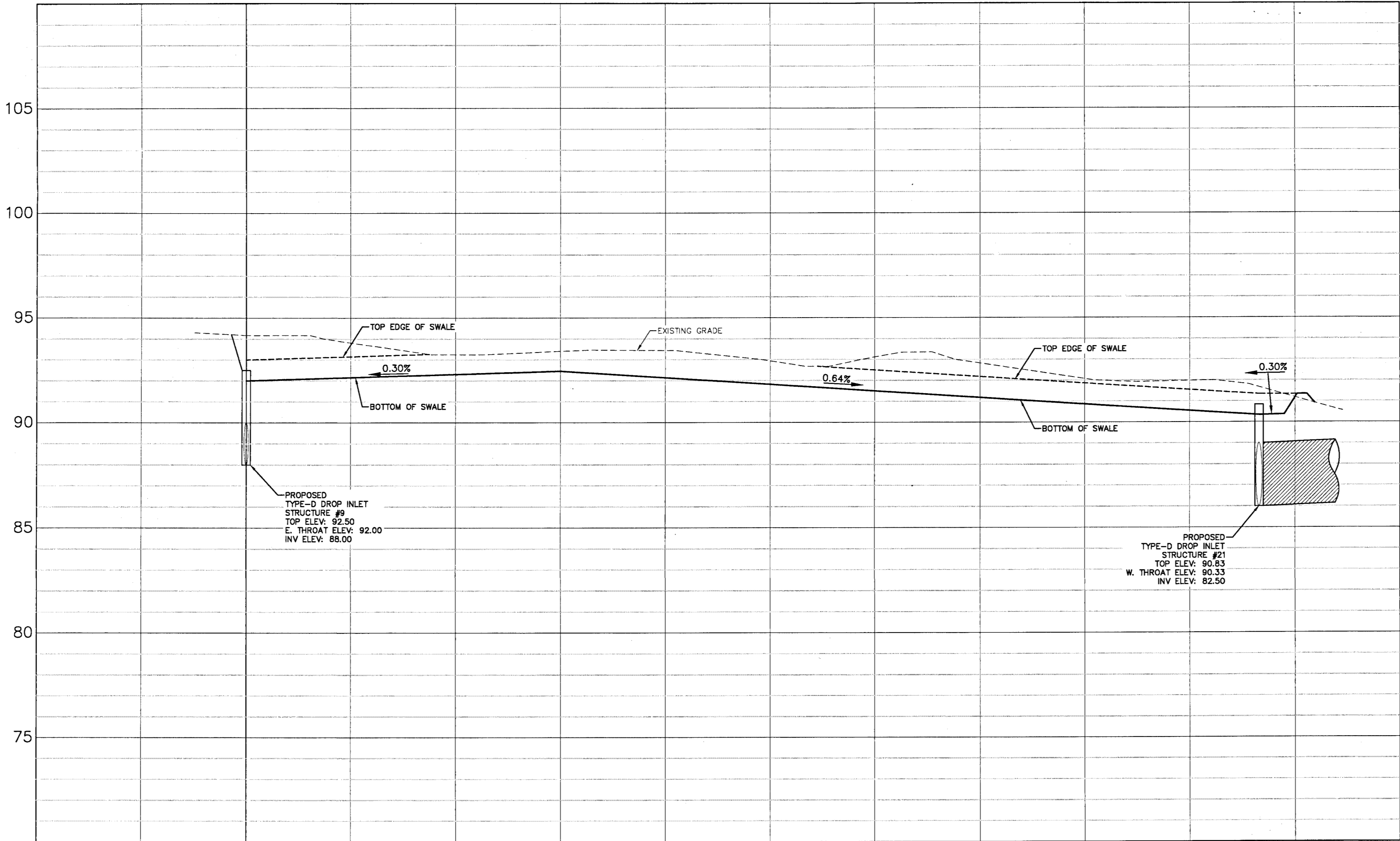
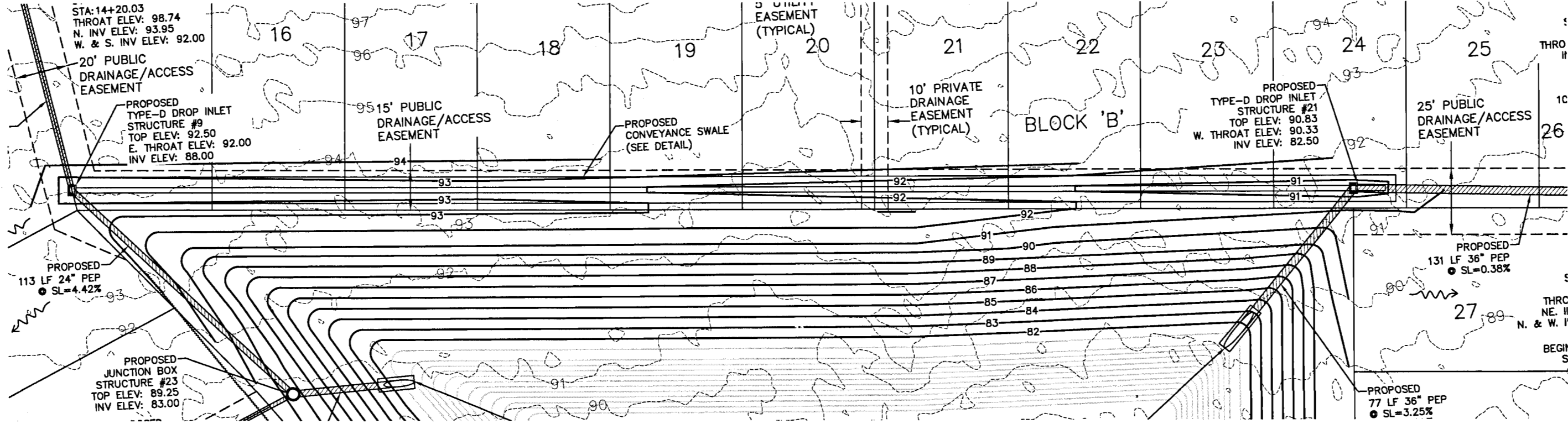
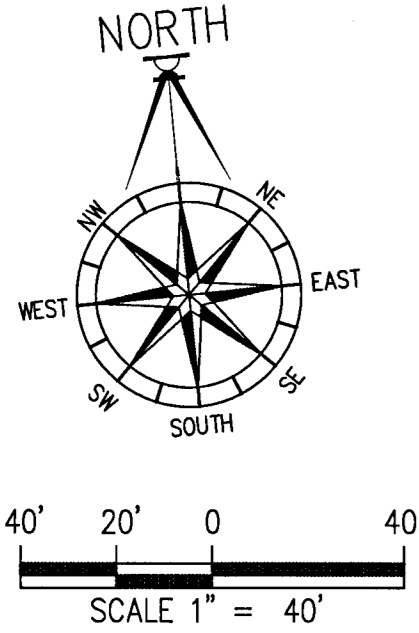
ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL



DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALMCOX STREET
PENSACOLA, FL 32534
PH: (904)76-8677 FAX: (904)76-7768

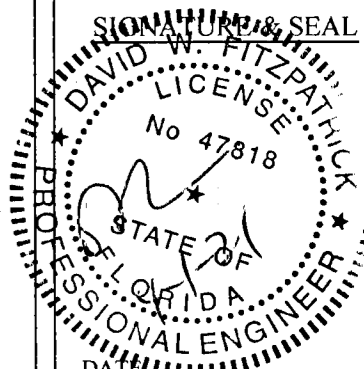
TURTLE CREEK

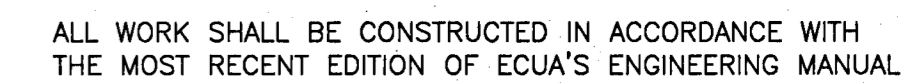
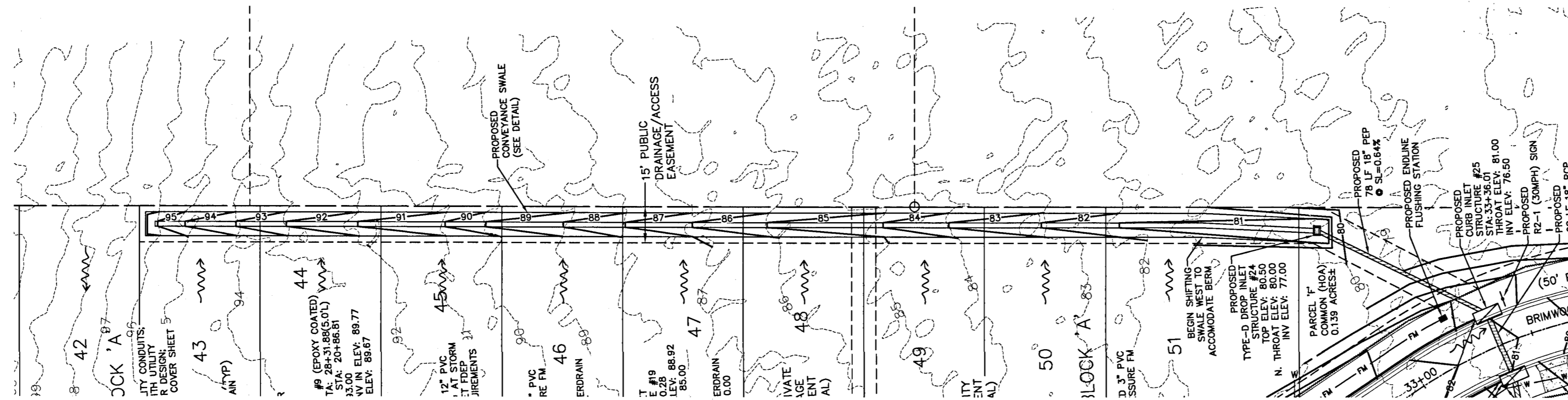
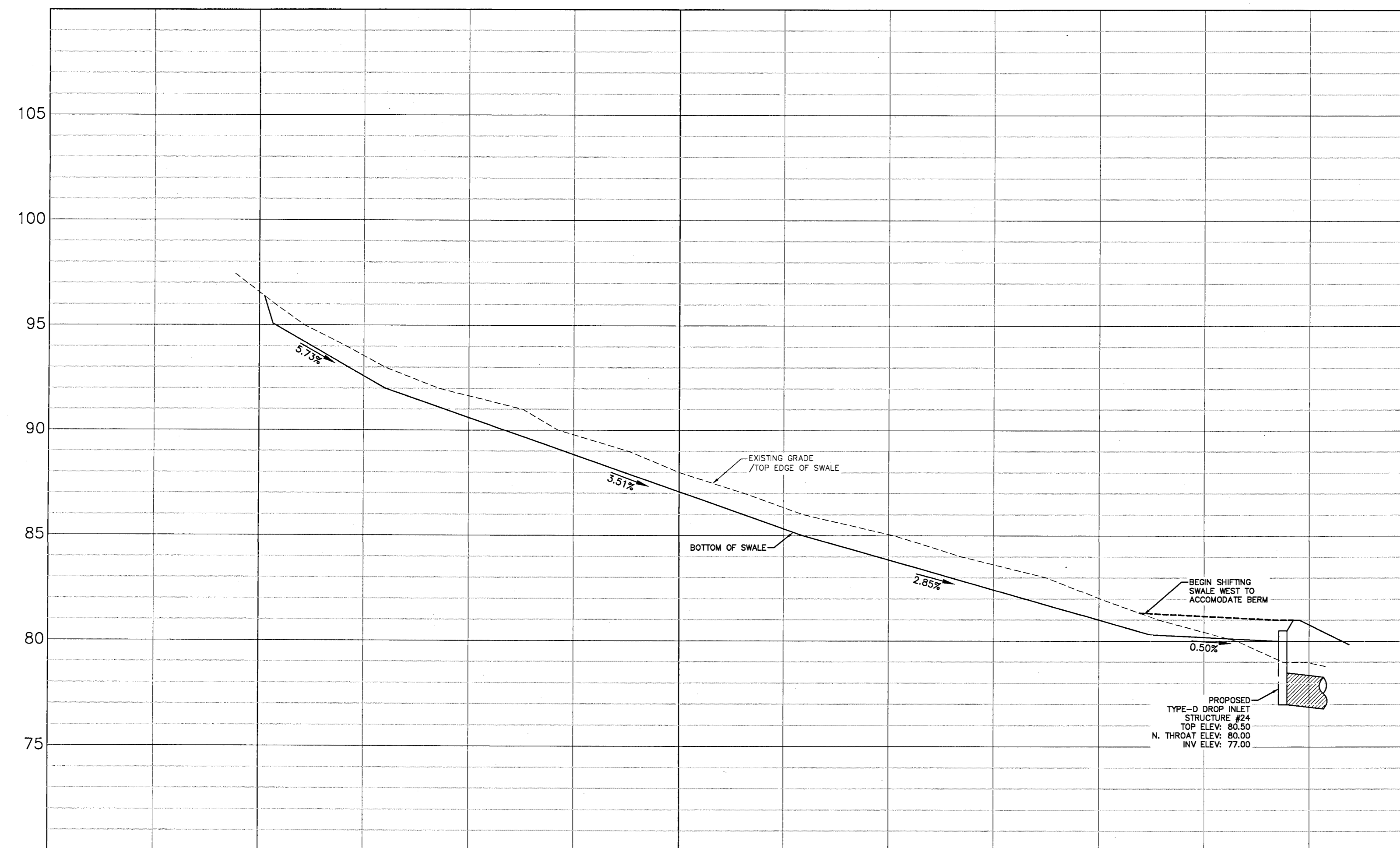
PLAN / PROFILE - CONVEYANCE SWALE (POND #1)



REVISION	DATE
1	12/1/20
2	2/2/21
3	3/31/21

DESIGNED BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK
PROJECT NUMBER 18-039
PLOT DATE 3/31/21
SHEET C17 OF C40





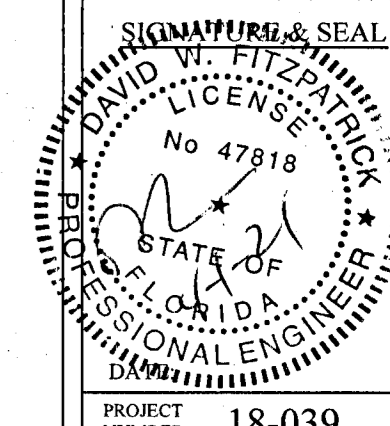
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALMCOAST STREET
PENSACOLA, FL 32534
PH: (850)476-8677 FAX: (850)476-7708

TURTLE CREEK

PLAN / PROFILE - CONVEYNACE SWALE (EAST)

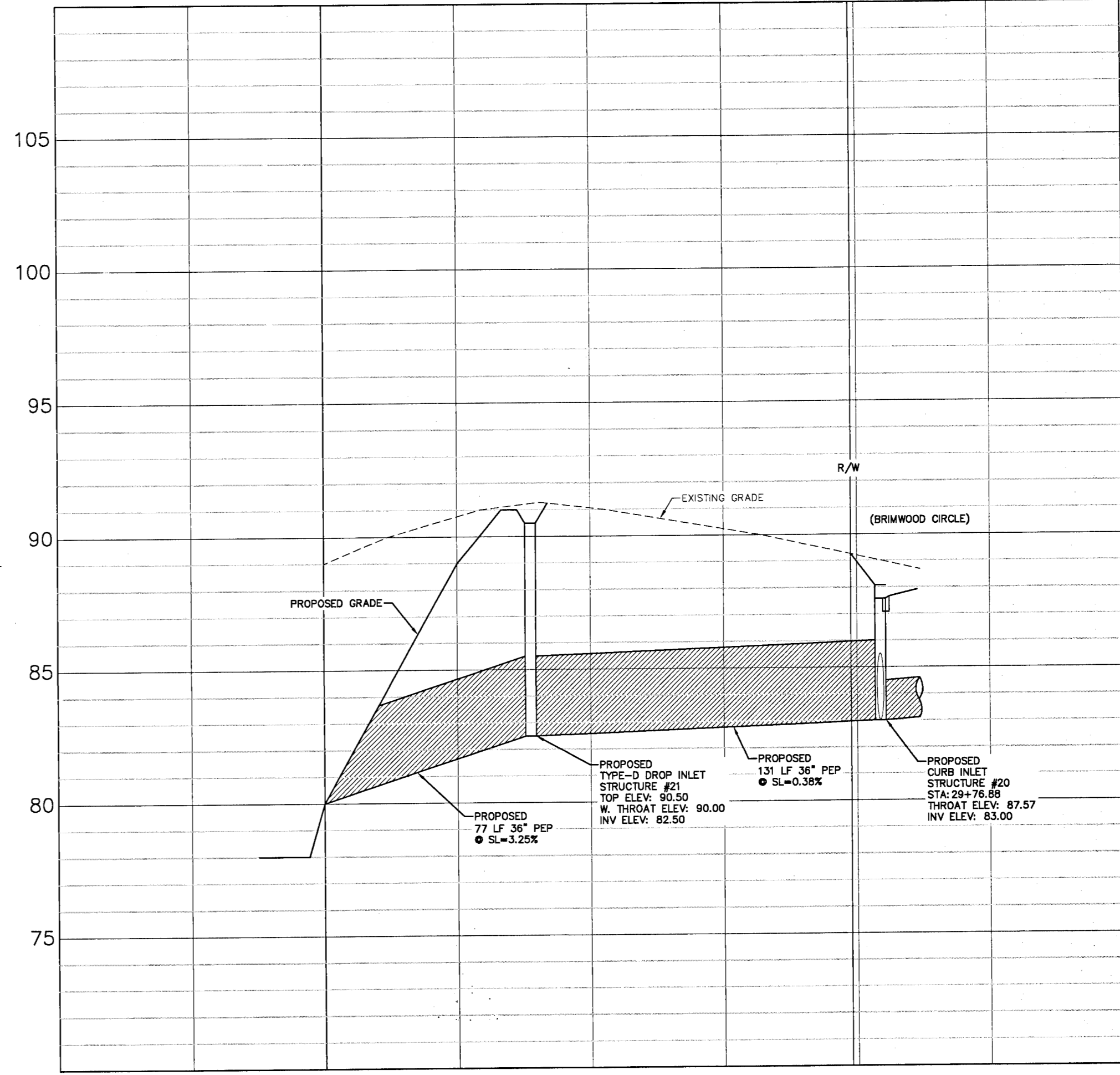
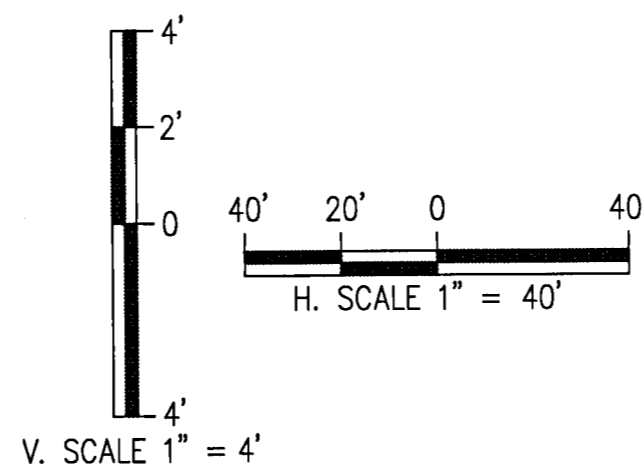
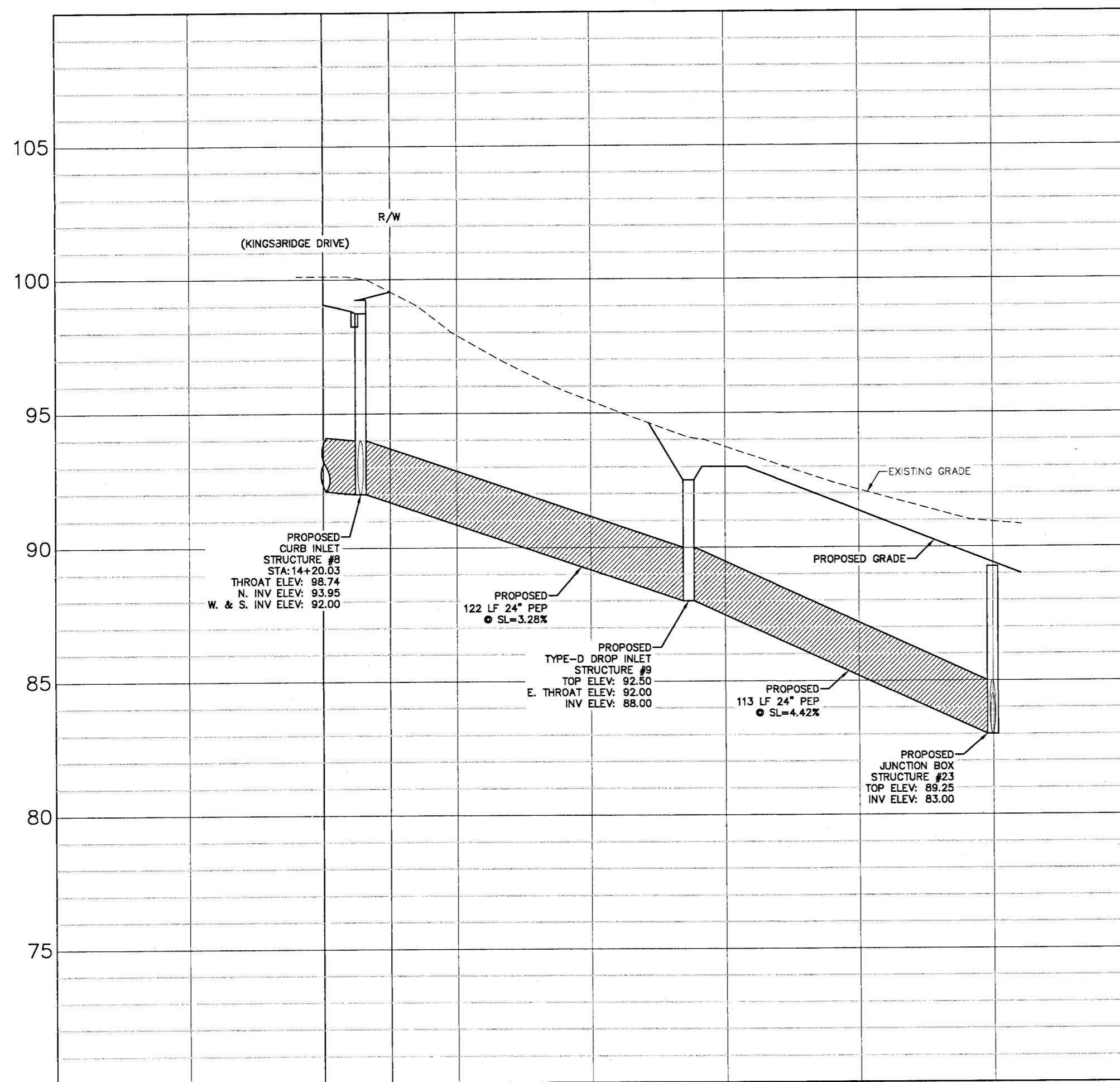
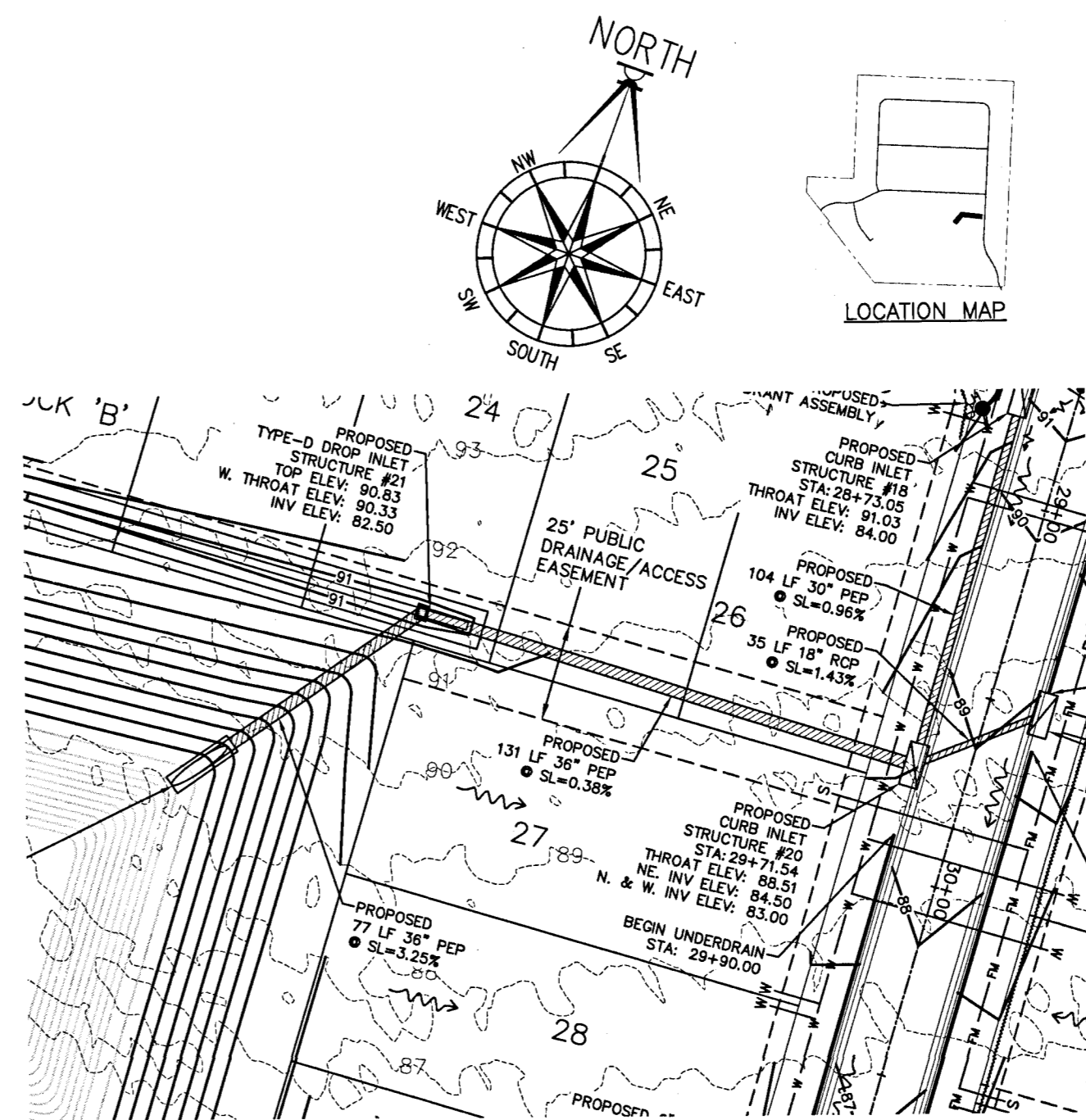
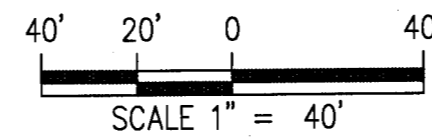
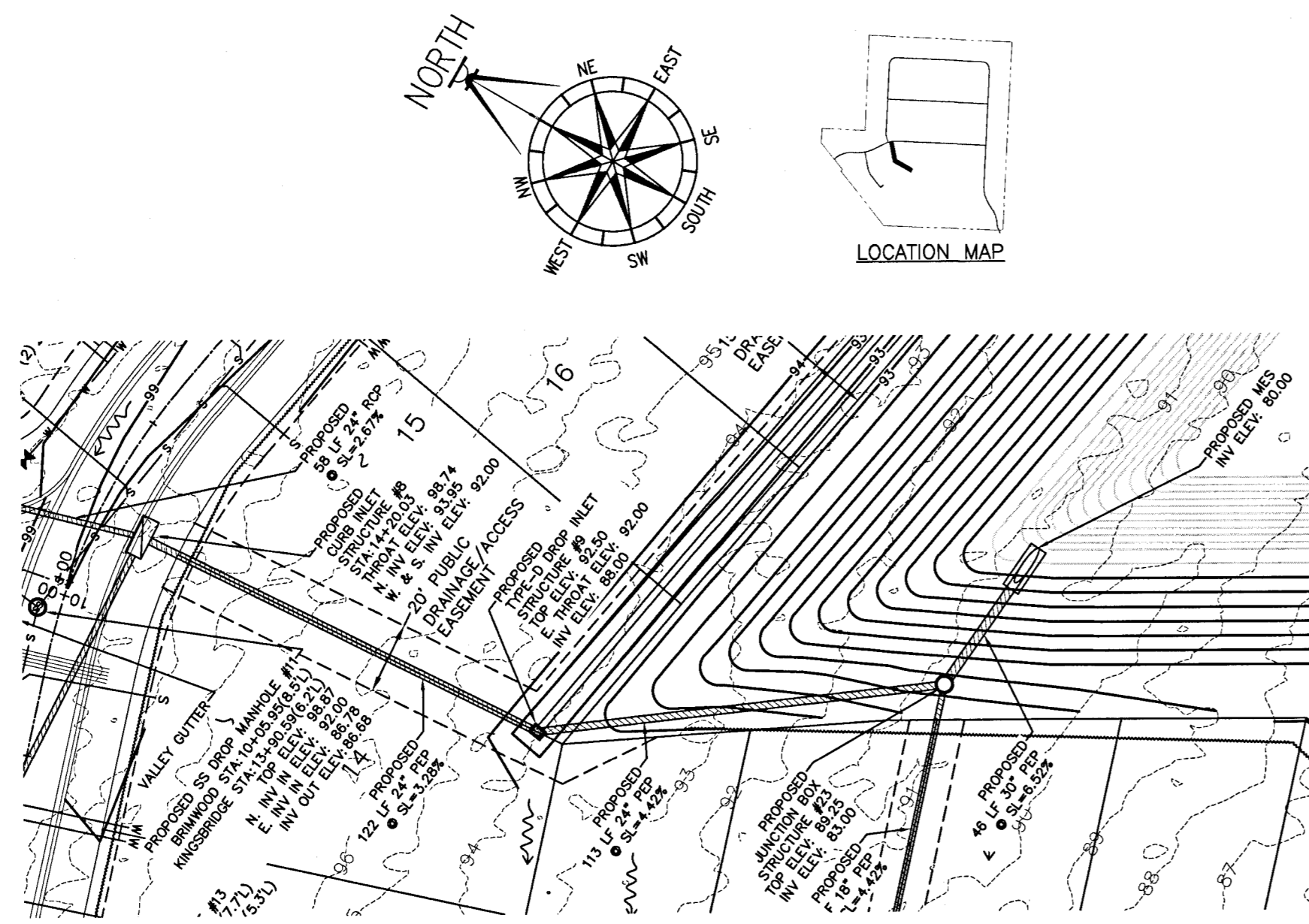
NUMBER	REVISION	DATE
1	POD DRAINAGE COMMENT REVISIONS	12/14/08
2	ECIA COMMENT REVISIONS	2/9/21
3	ESCAMBIA COUNTY COMMENT REVISIONS	3/31/21

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK



PROJECT NUMBER	18-039
PLOT DATE	3/31/21
SHEET	C18 OF C40

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL.

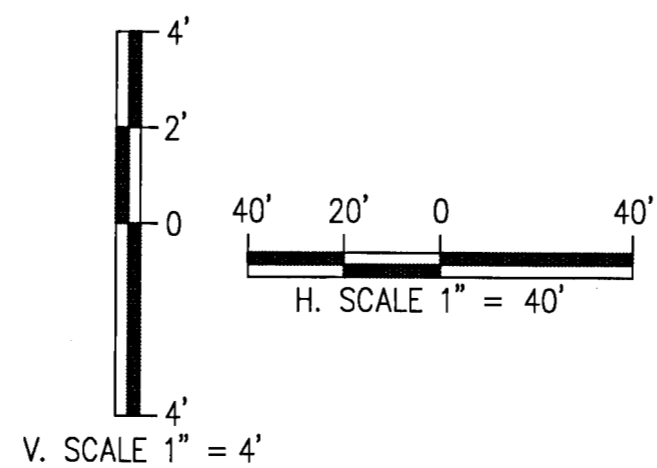
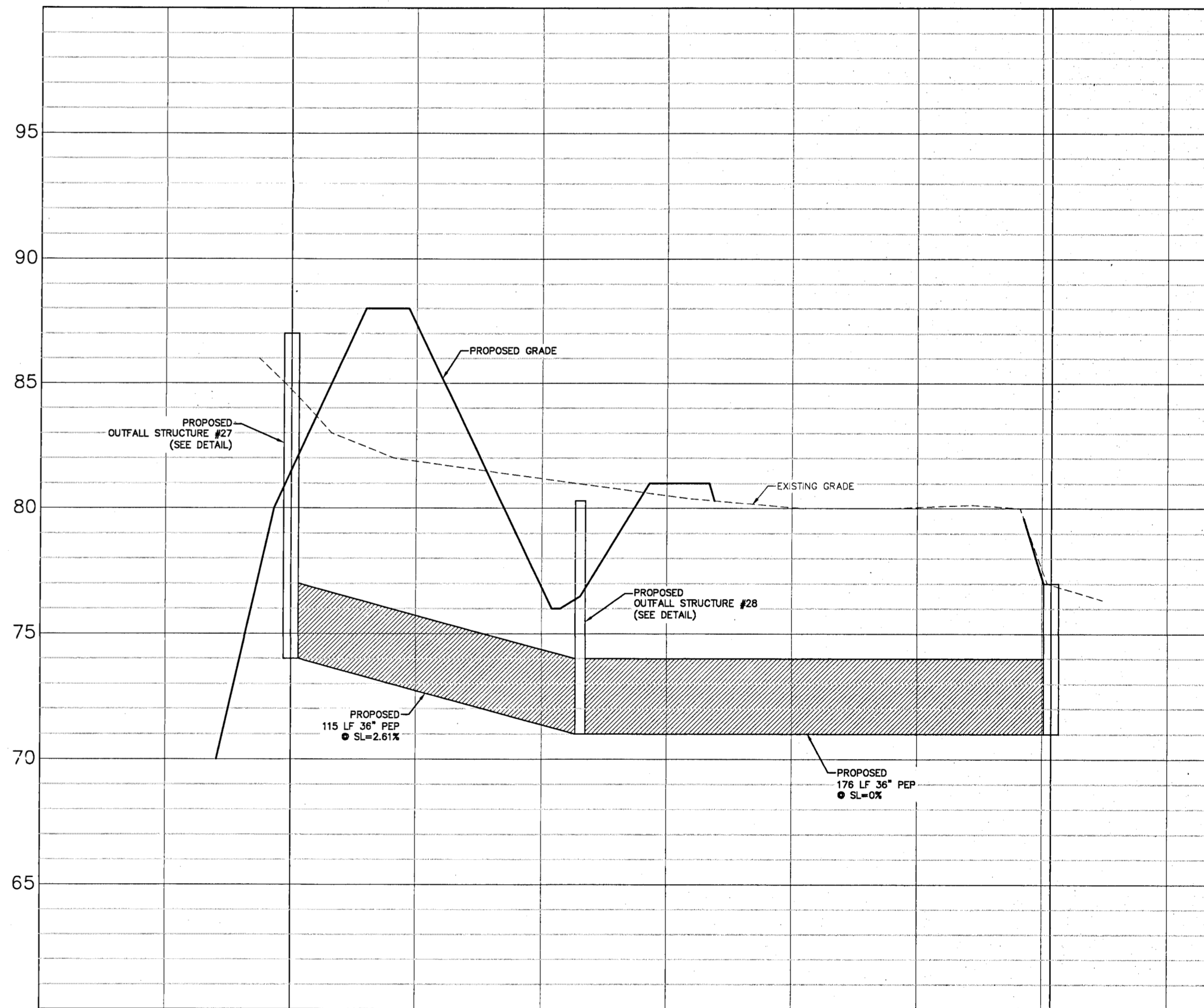
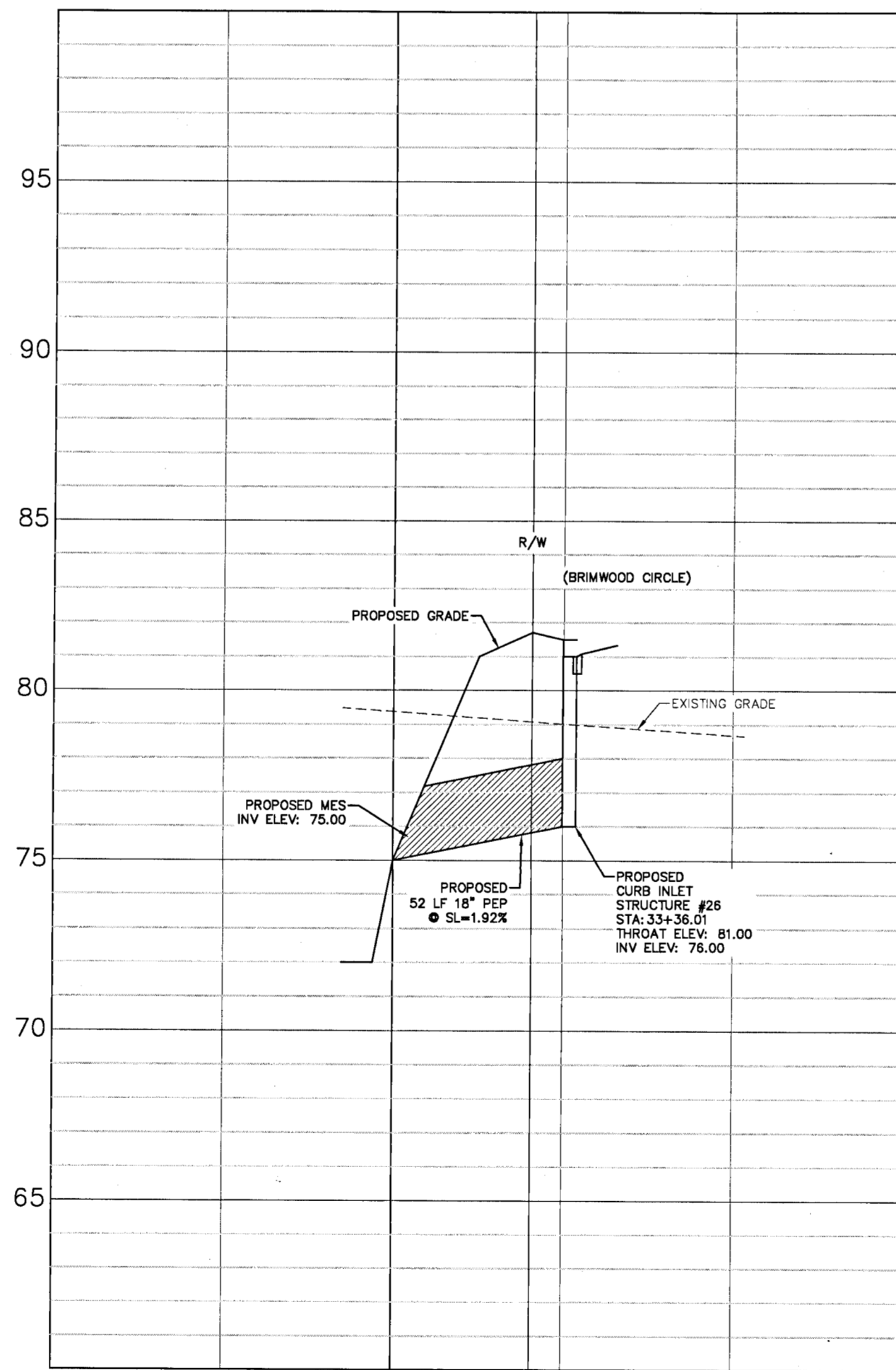
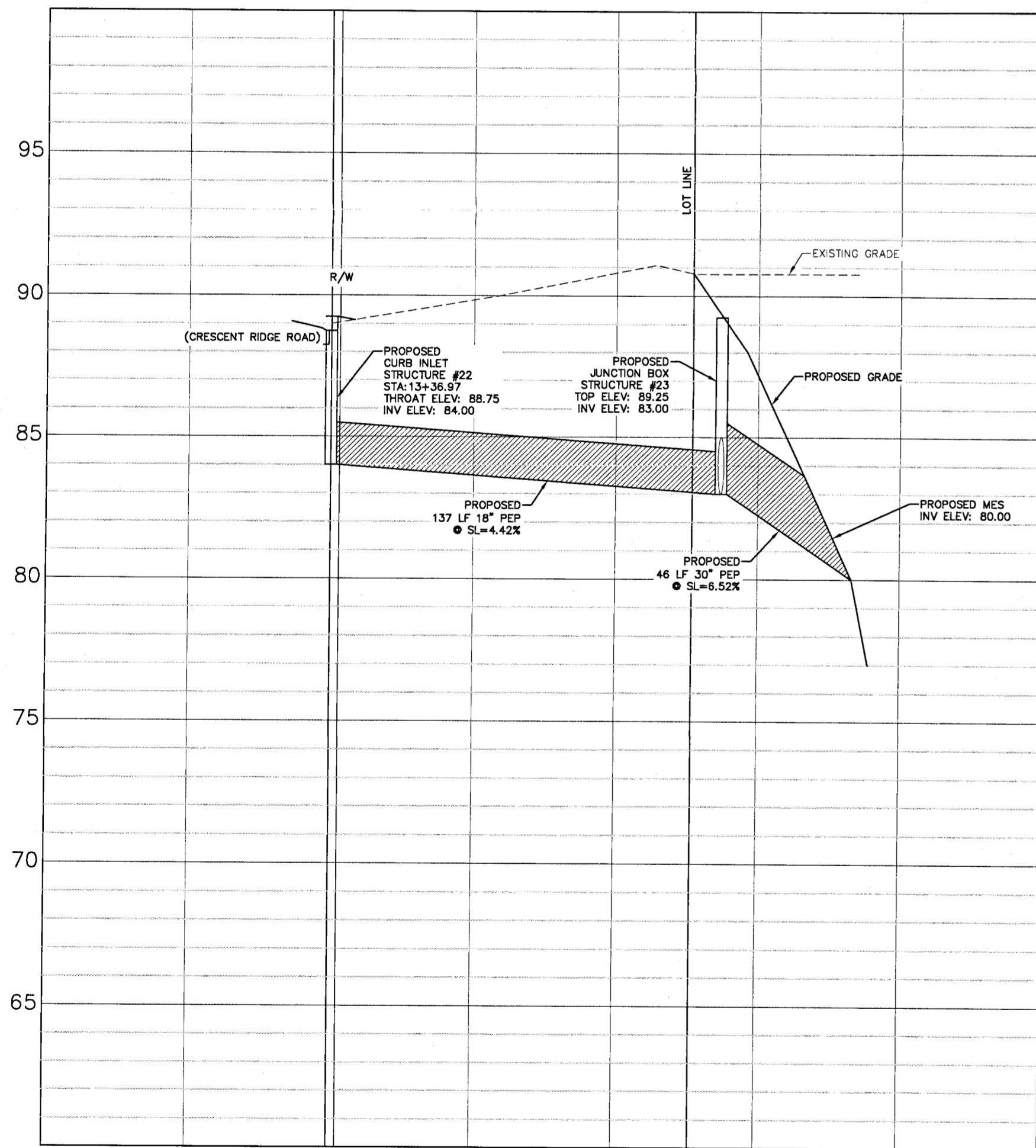
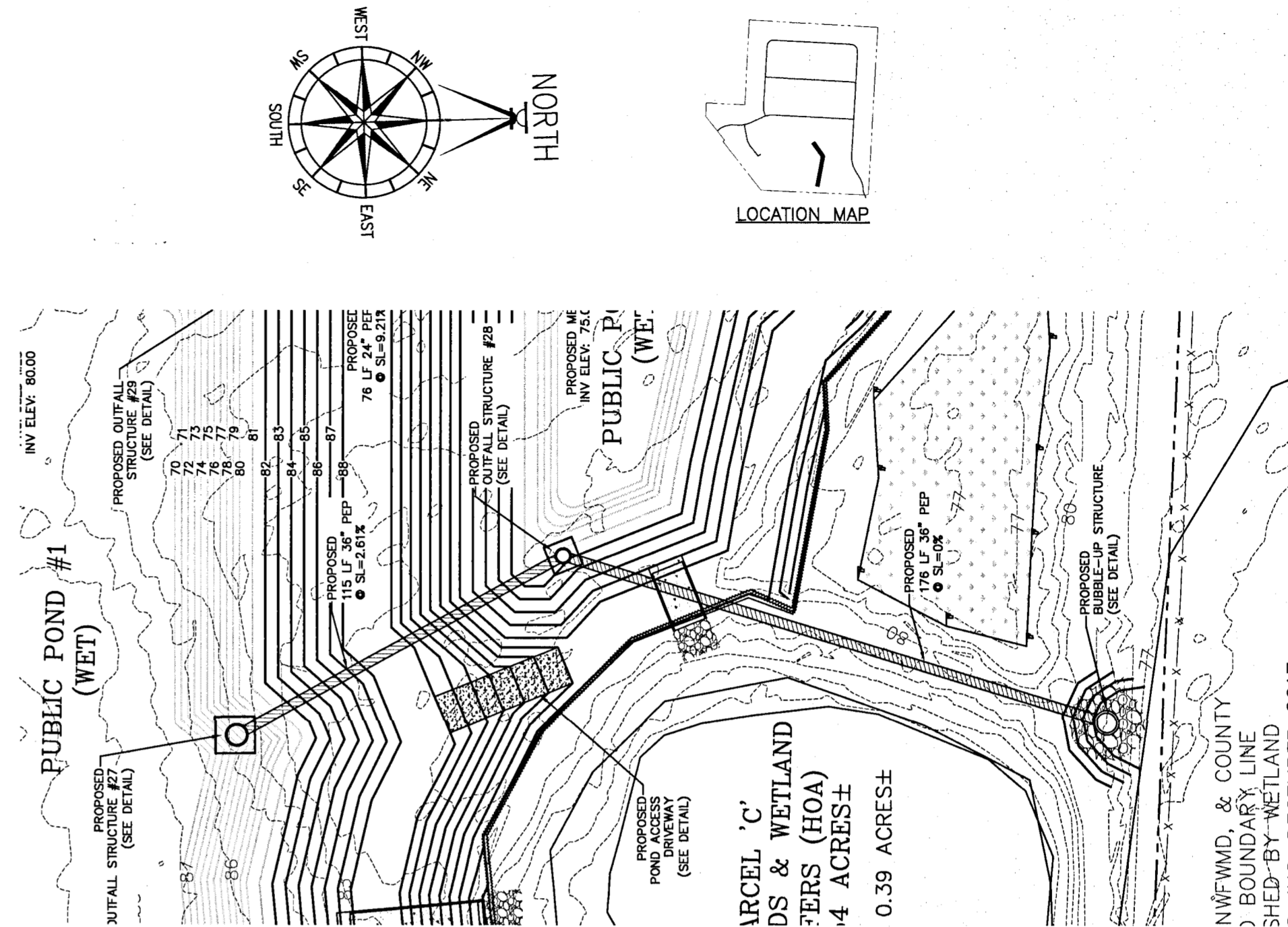
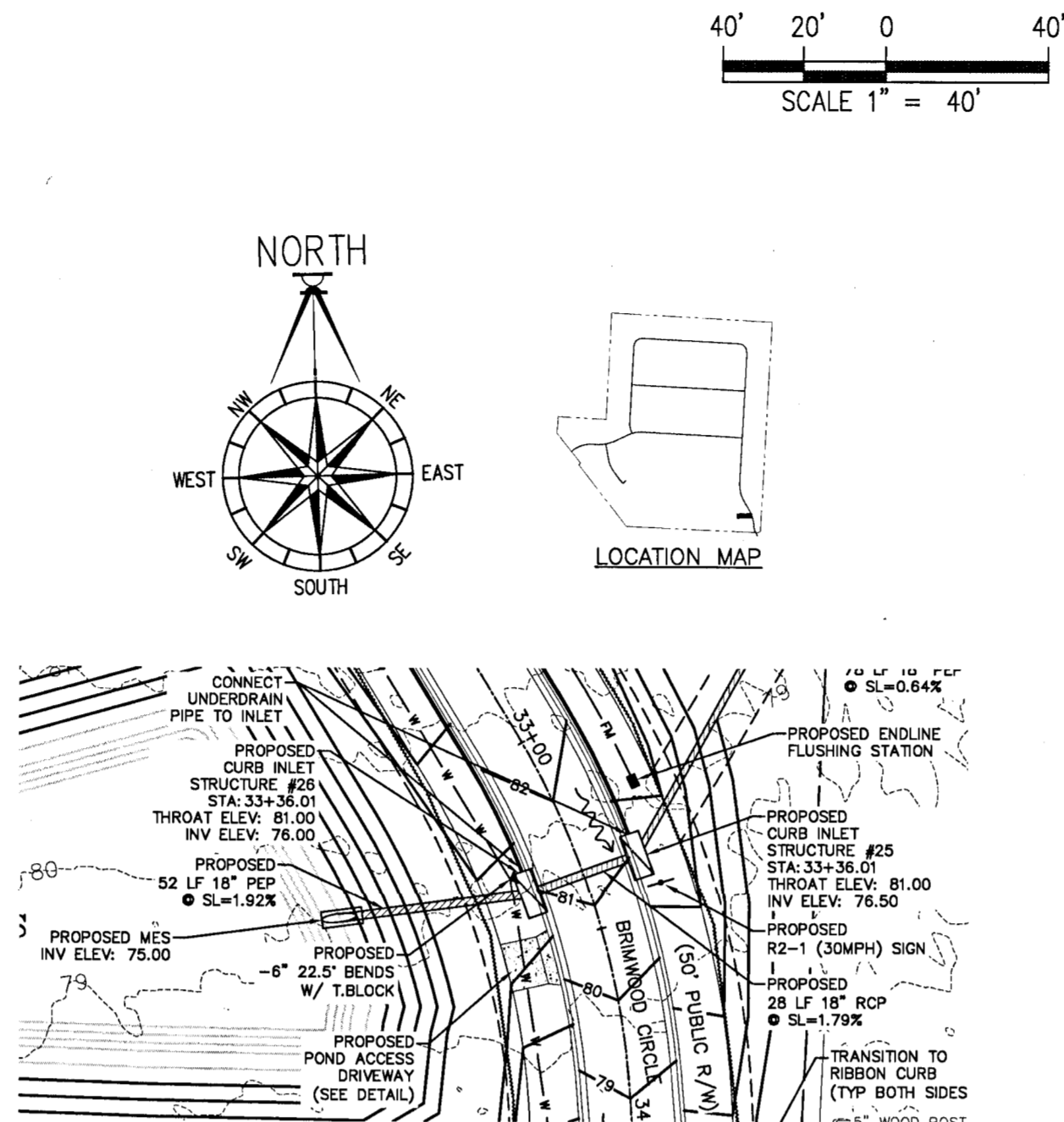
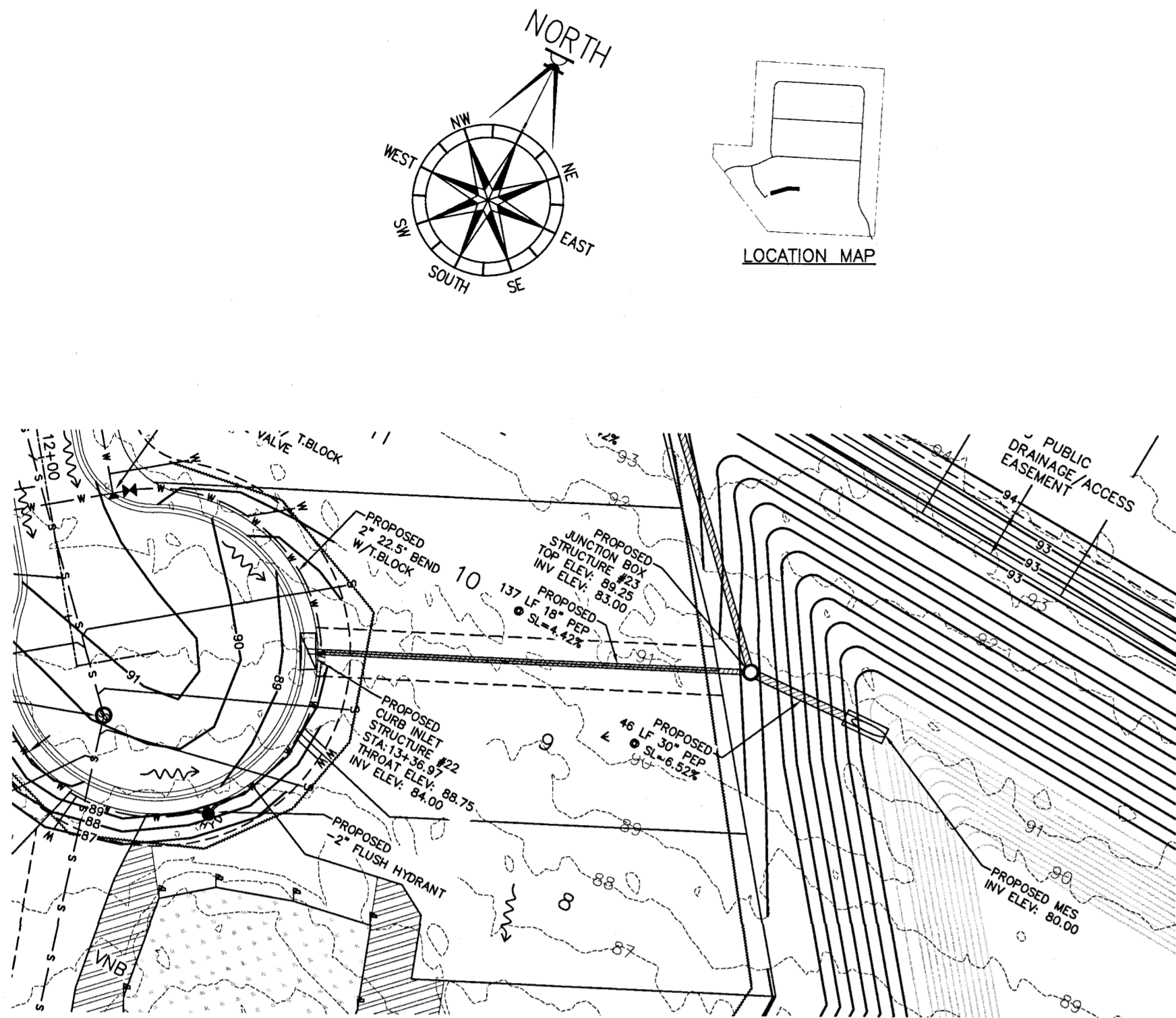


DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10250 NORTH PALM AVENUE, SUITE 100
FORT LAUDERDALE, FL 33308
PH: (850) 476-8877 FAX: (850) 476-7708

TURTLE CREEK
MISC STORMWATER - PLAN / PROFILE

DATE	
REVISION	
NUMBER	

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK
SIGNATURE & SEAL
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
STATE OF FLORIDA
LICENSE NO. 47418
PROJECT NUMBER: 18-0000
PLOT DATE: 3/31/21
SHEET C19 OF C40



ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

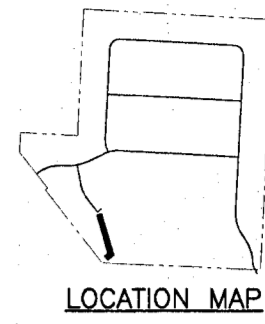
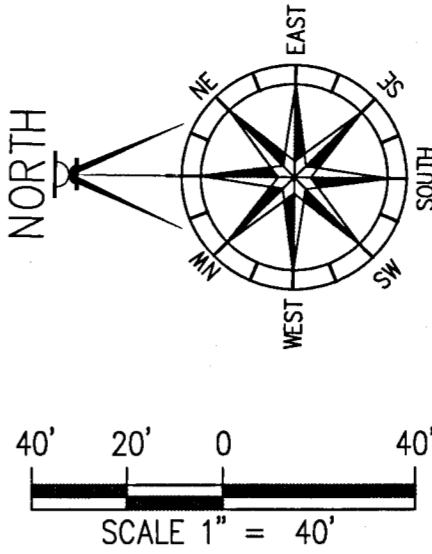
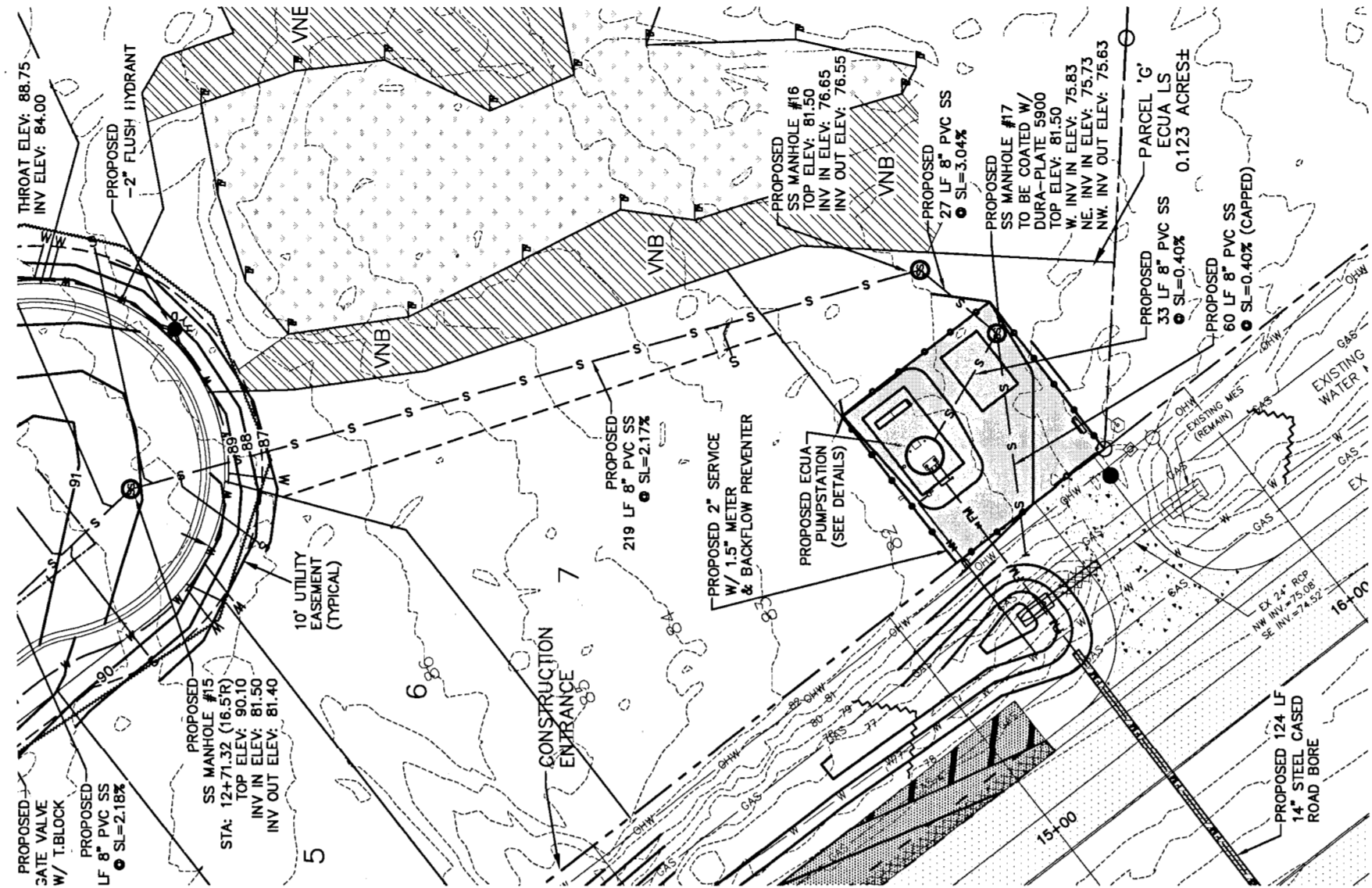
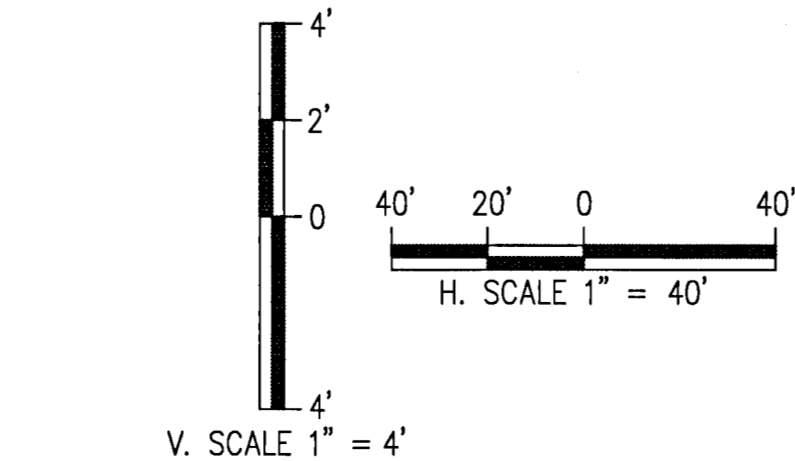
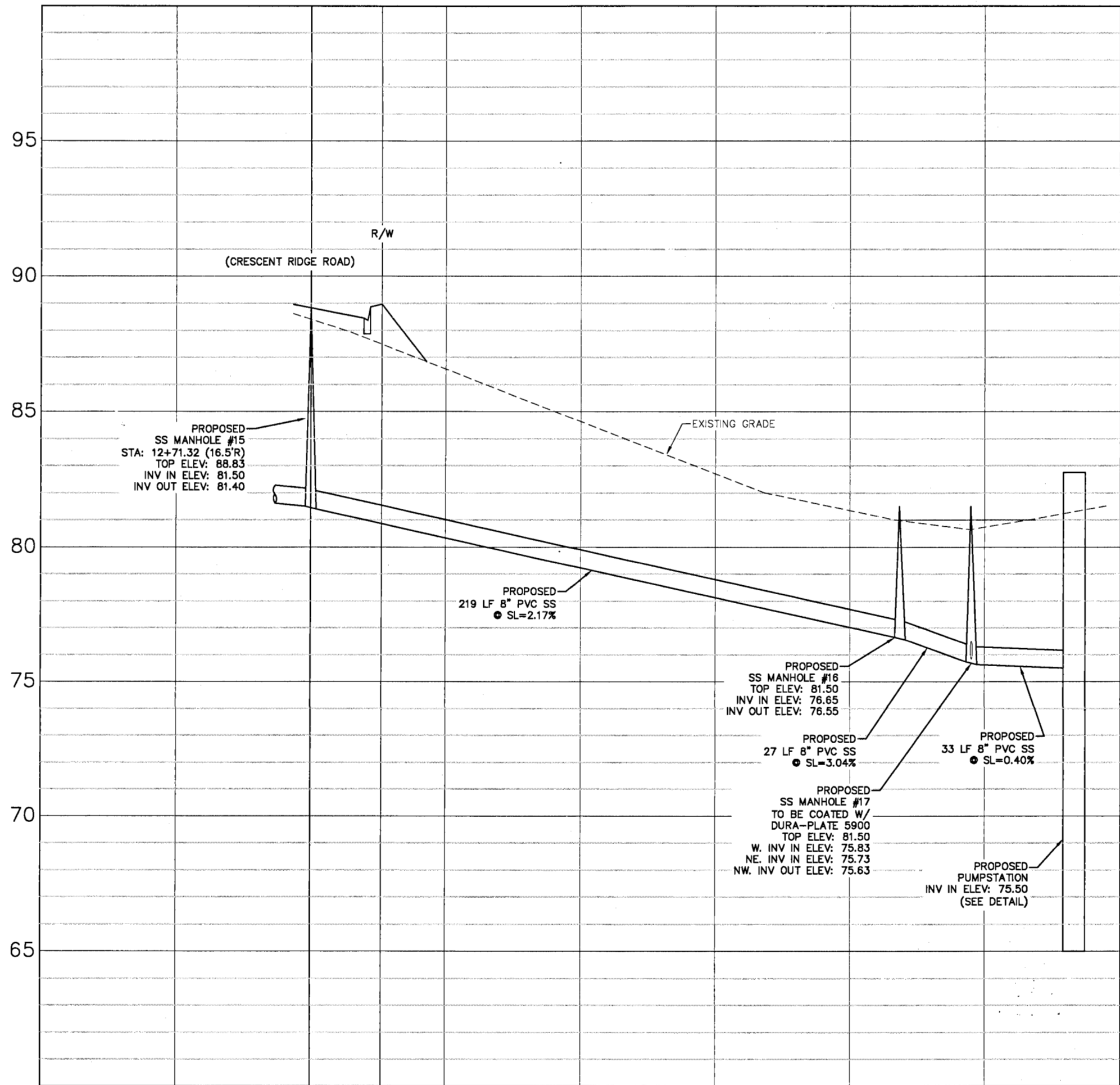
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10200 W. 11TH STREET
PENSACOLA, FL 32534
PH: (850) 476-8677 FAX: (850) 476-7708

TURTLE CREEK

MISC. STORMWATER - PLAN / PROFILE

REVISION	DATE	BY	CHKD
1	12/1/20	A. BURKETT	
2	2/28/21	D. FITZPATRICK	
3	3/31/21	D. FITZPATRICK	

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK
SIGNATURE & SEAL DAVID W. FITZPATRICK PROFESSIONAL ENGINEER, P.A. LICENSE NO. 47818 STATE OF FLORIDA DATE: 3/31/21 PROJECT NUMBER: 18-039 PLOT DATE: 3/31/21 SHEET C20 OF C40



ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
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DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
BOARD OF PROFESSIONAL REGULATION #00008423
10225 W. BAYVIEW AVENUE
PENSACOLA, FL 32534
PH: (850)476-8677 FAX: (850)476-7708

TURTLE CREEK
MISC. SANITARY SEWER - PLAN / PROFILE

REVISION	DATE
1	03/09
2	03/21
3	03/21

DRAWN BY:
A. BURKETT

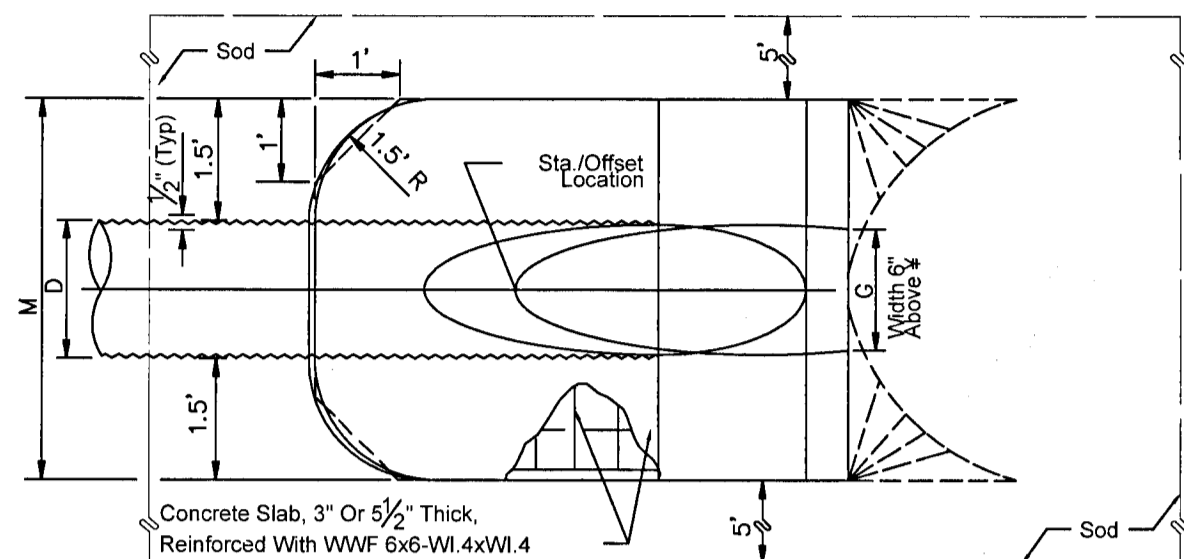
DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

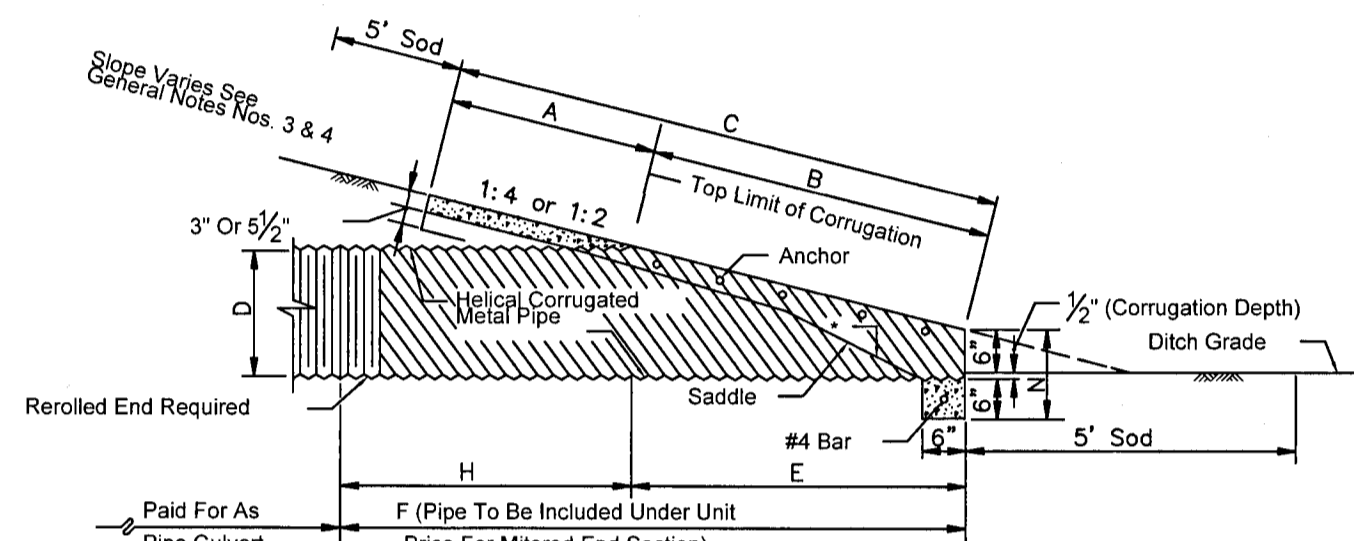
PROJECT NUMBER
18-039

PLOT DATE
3/31/21

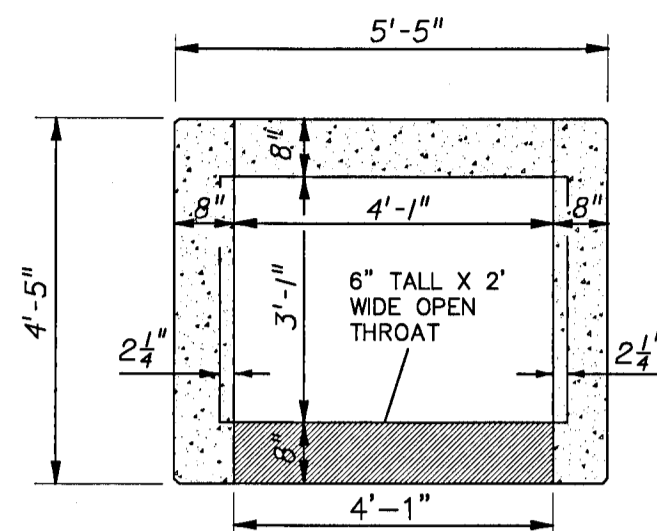
SHEET C21 OF C40



TOP VIEW

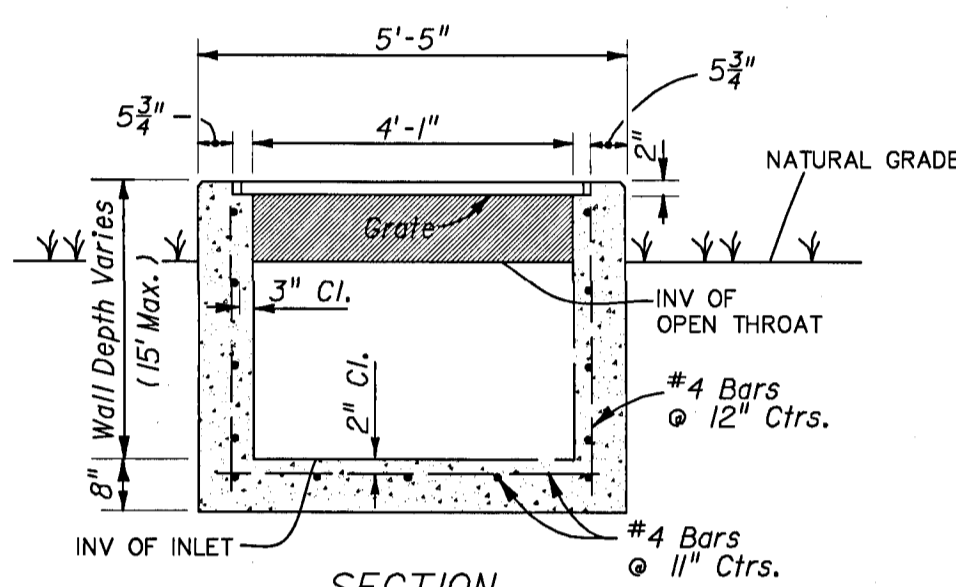


SECTION



PLAN

NOTE: ALL INLETS ARE TO UTILIZE SILT SAVERS OR SILTFENCE RETAINAGE BOXES.



SECTION

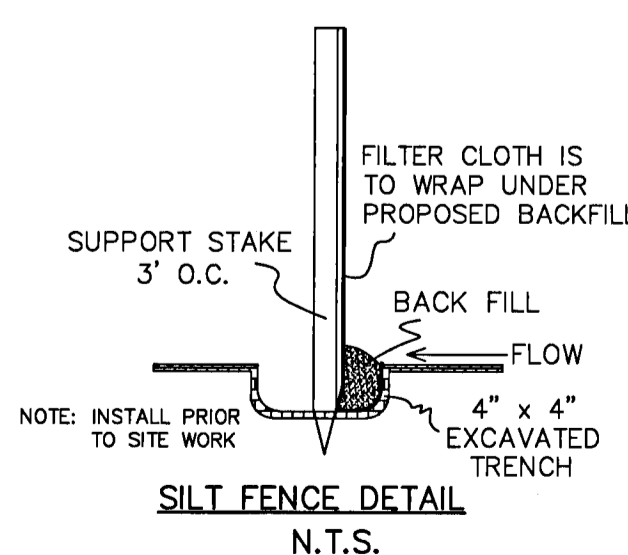
Recommended Maximum Pipe Size:
3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe

FDOT TYPE-D INLET DETAIL
NTS

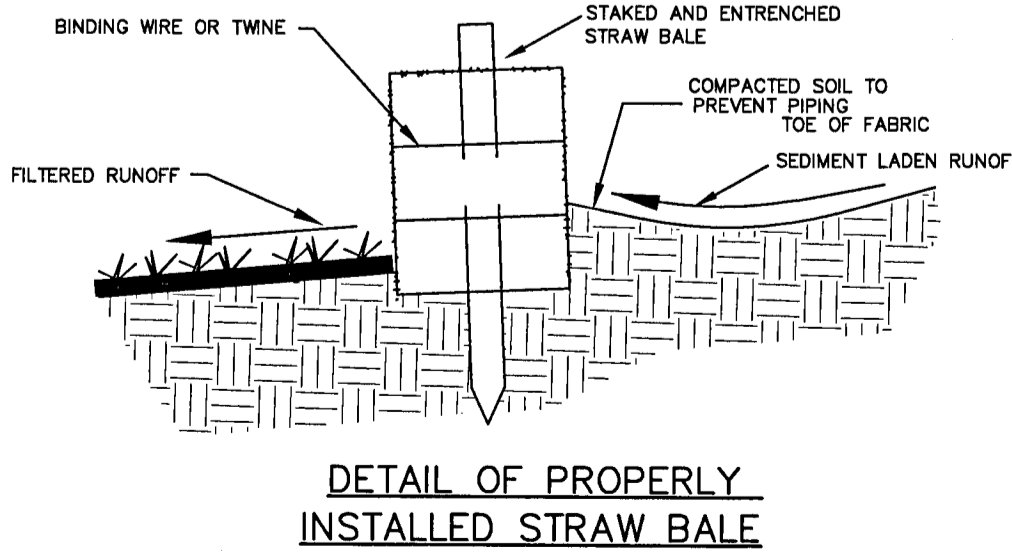
MES DIMENSIONS AND QUANTITIES														
	D	X	A	B	C	E	F	G	H ?	M				N
										Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	
12 Slope	15"	2'-7"	2.5'	1.68'	4.18'	1.5'	5.0'	1.23'	3.5'	4.33'	6.92'	9.50'	12.08'	1.04'
	18"	2'-10"	2.5'	2.24'	4.74'	2.0'	6.0'	1.41'	4'	4.58'	7.42'	10.25'	13.08'	1.04'
	24"	3'-5"	2.5'	3.35'	5.85'	3.0'	7.0'	1.73'	4'	5.08'	8.50'	11.92'	15.33'	1.04'
	30"	4'-3"	2.5'	4.47'	6.97'	4.0'	8.0'	2.00'	4'	5.58'	9.83'	14.08'	18.33'	1.04'
	36"	5'-1"	2.5'	5.59'	8.09'	5.0'	9.0'	2.24'	4'	6.08'	11.17'	16.25'	21.33'	1.04'
	42"	6'-0"	2.5'	6.71'	9.21'	6.0'	10.0'	2.45'	4'	6.58'	12.58'	18.58'	24.58'	1.04'
14 Slope	48"	6'-9"	2.5'	7.83'	10.33'	7.0'	11.0'	2.65'	4'	7.08'	13.83'	20.58'	27.33'	1.04'
	54"	7'-8"	2.5'	8.94'	11.44'	8.0'	12.0'	2.83'	4'	7.58'	15.25'	22.92'	30.58'	1.04'
	60"	8'-6"	2.5'	10.06'	12.56'	9.0'	13.0'	3.00'	4'	8.08'	16.58'	25.08'	33.58'	1.04'
	15"	2'-7"	2.5'	3.09'	5.59'	3.0'	7.0'	1.23'	4'	4.33'	6.92'	9.50'	12.08'	1.04'
	18"	2'-10"	2.5'	4.12'	6.62'	4.0'	8.0'	1.41'	4'	4.58'	7.42'	10.25'	13.08'	1.04'
	24"	3'-5"	2.5'	5.18'	7.68'	5.0'	9.0'	1.73'	4'	5.08'	8.50'	11.92'	15.33'	1.04'
16 Slope	30"	4'-3"	2.5'	6.25'	8.75'	6.0'	10.0'	2.00'	4'	5.58'	9.83'	14.08'	18.33'	1.04'
	36"	5'-1"	2.5'	7.31'	9.81'	7.0'	11.0'	2.24'	4'	6.08'	11.17'	16.25'	21.33'	1.04'
	42"	6'-0"	2.5'	8.37'	10.87'	8.0'	12.0'	2.45'	4'	6.58'	12.58'	18.58'	24.58'	1.04'
	48"	6'-9"	2.5'	9.43'	11.93'	9.0'	13.0'	2.65'	4'	7.08'	13.83'	20.58'	27.33'	1.04'
	54"	7'-8"	2.5'	10.49'	12.99'	10.0'	14.0'	2.83'	4'	7.58'	15.25'	22.92'	30.58'	1.04'
	60"	8'-6"	2.5'	11.55'	14.05'	11.0'	15.0'	3.00'	4'	8.08'	16.58'	25.08'	33.58'	1.04'

NOTE: MES SHALL NOT BE CONSTRUCTED OF PVC (A2000) OR HDPE (ADS) PIPE. USE ONLY CONCRETE OR METAL MITERED END SECTIONS AS INDICATED IN FDOT STANDARD SPECIFICATIONS 430-4.8. WHEN USE IN CONJUNCTION WITH CORRUGATED MES, CONNECTION SHALL BE BY EITHER A FORMED METAL BAND SPECIFICALLY DESIGNED TO JOIN HDPE OR PVC PIPE. WHEN USED IN CONJUNCTION WITH A CONCRETE MES, CONNECTION SHALL BE BY CONCRETE JACKET CONSTRUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX NO. 280.

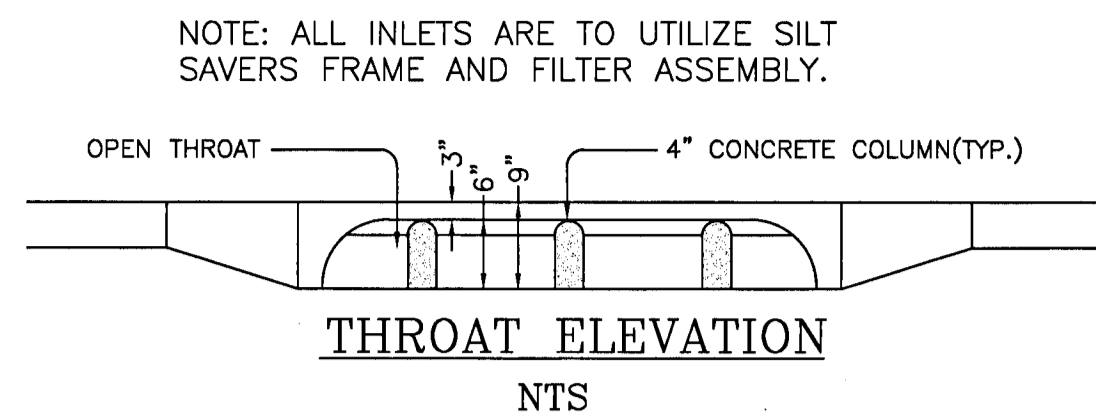
FDOT MES DETAIL
NTS



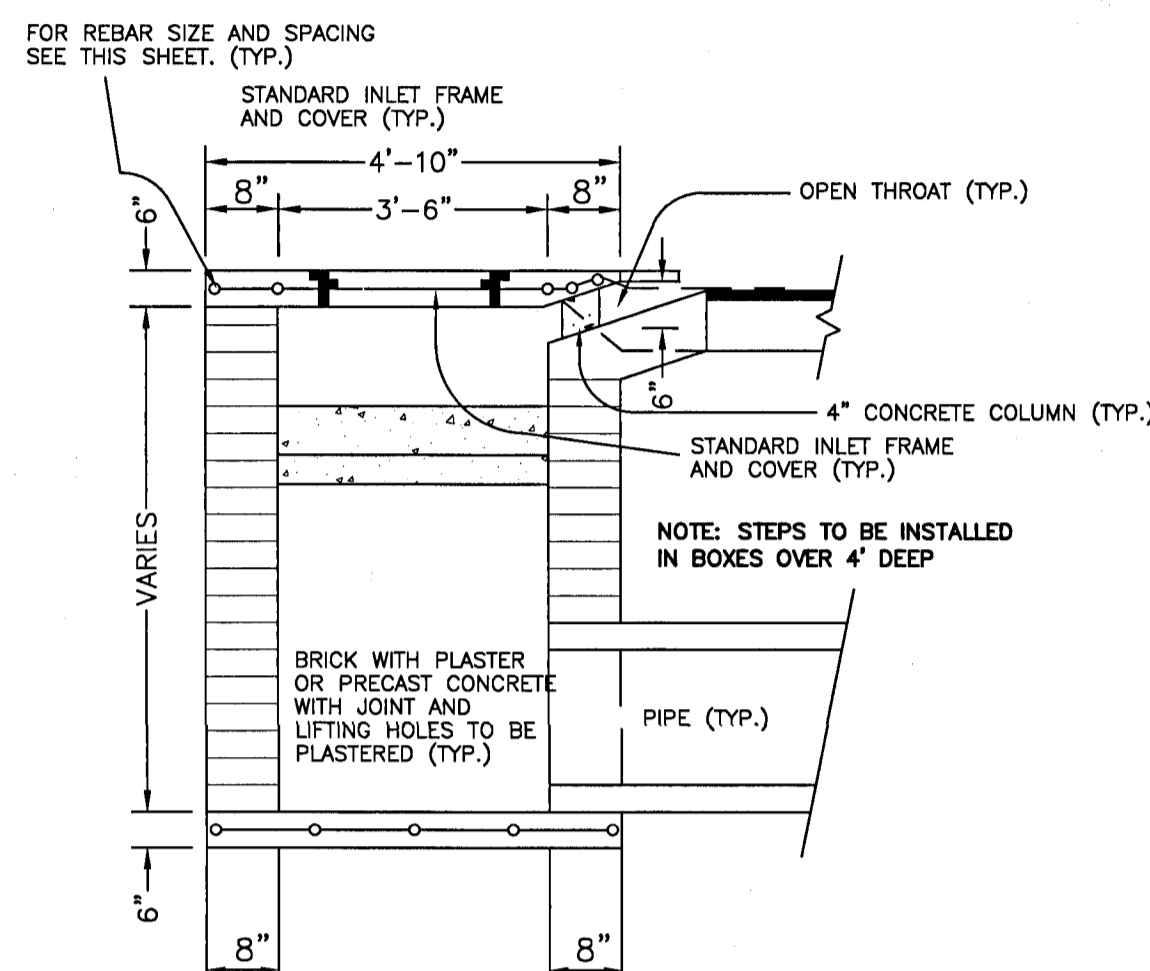
SILT FENCE DETAIL
N.T.S.



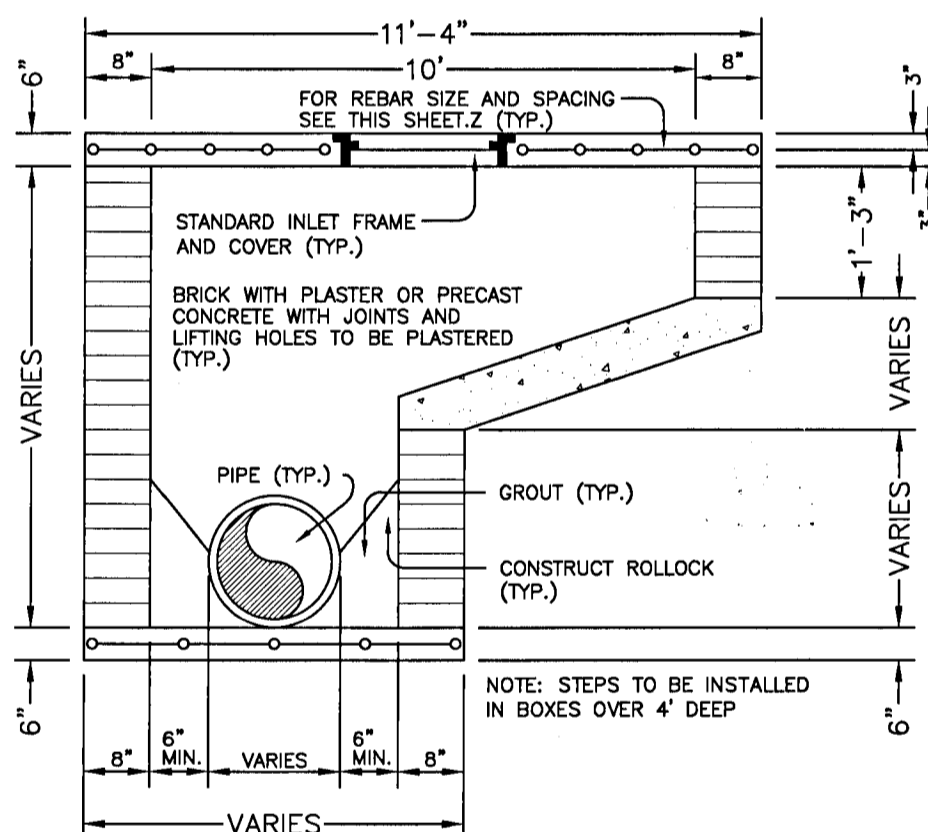
DETAIL OF PROPERLY
INSTALLED STRAW BALE



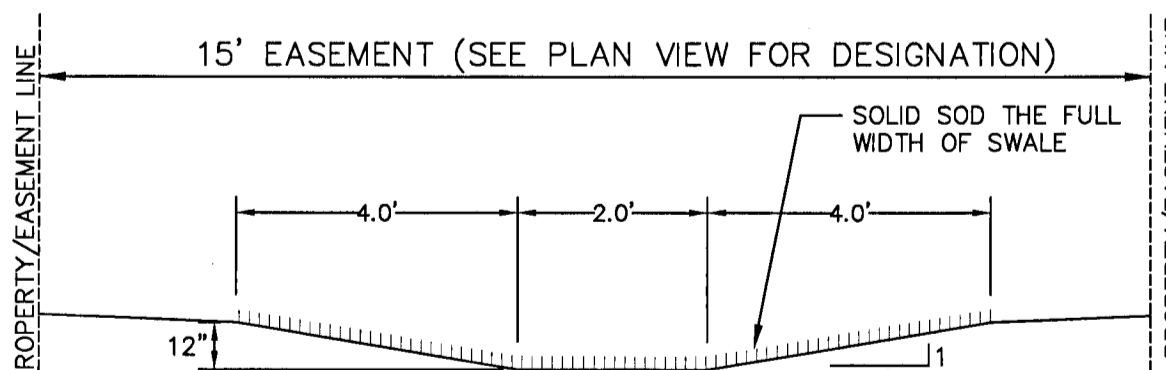
NTS



SECTION "B-B"
NTS

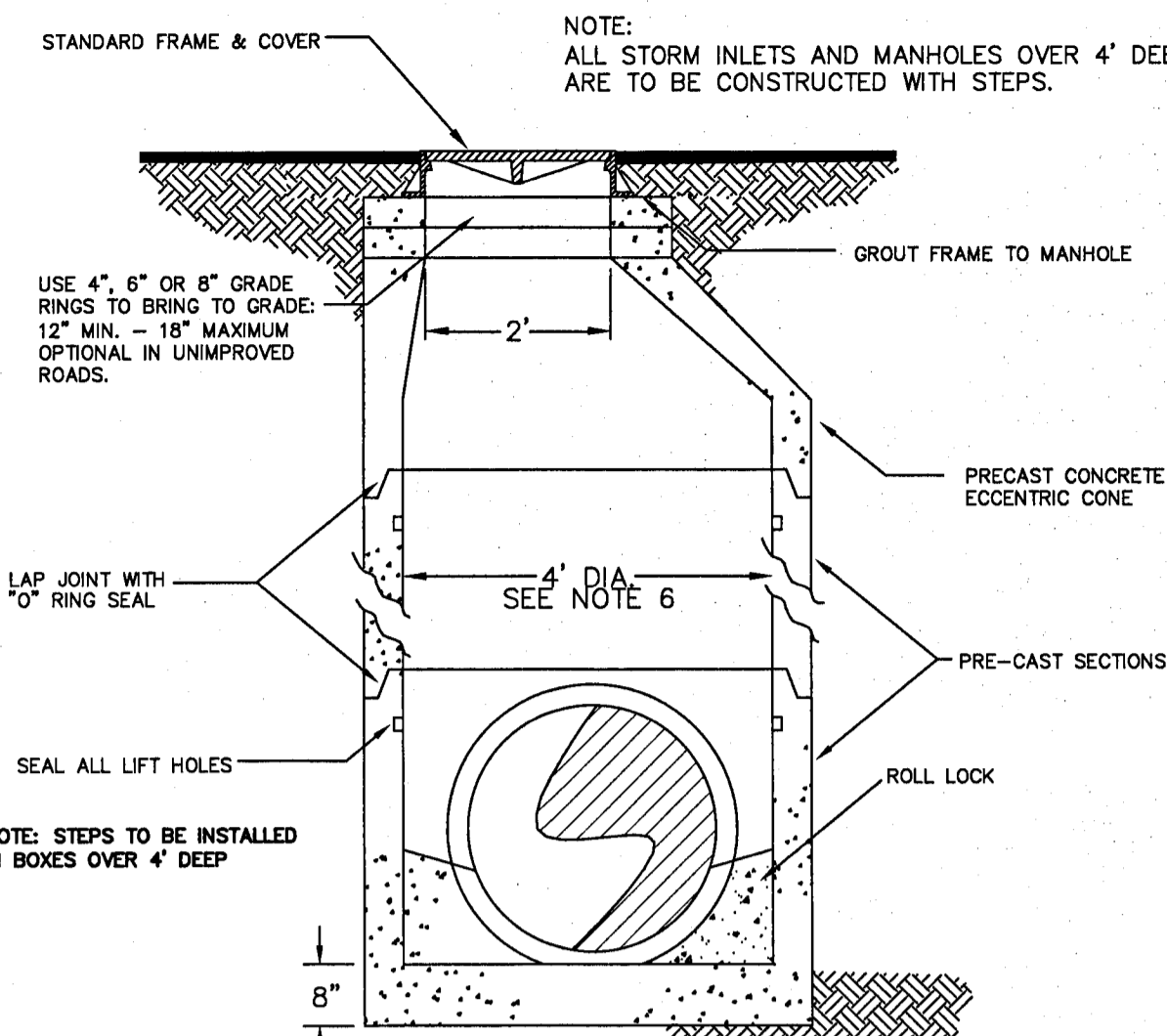


SECTION "A-A"
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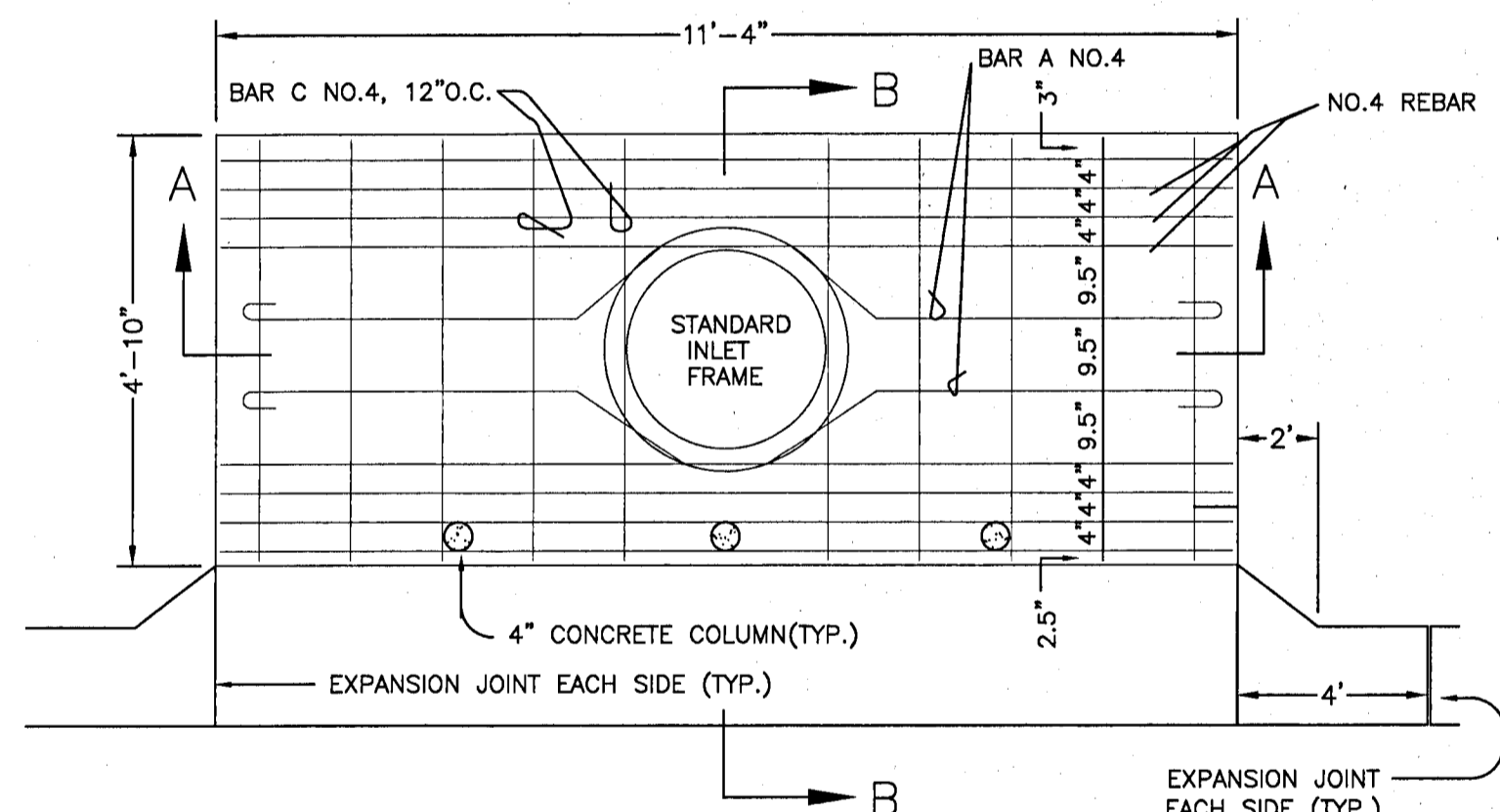
CONVEYANCE SWALE DETAIL
NTS

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

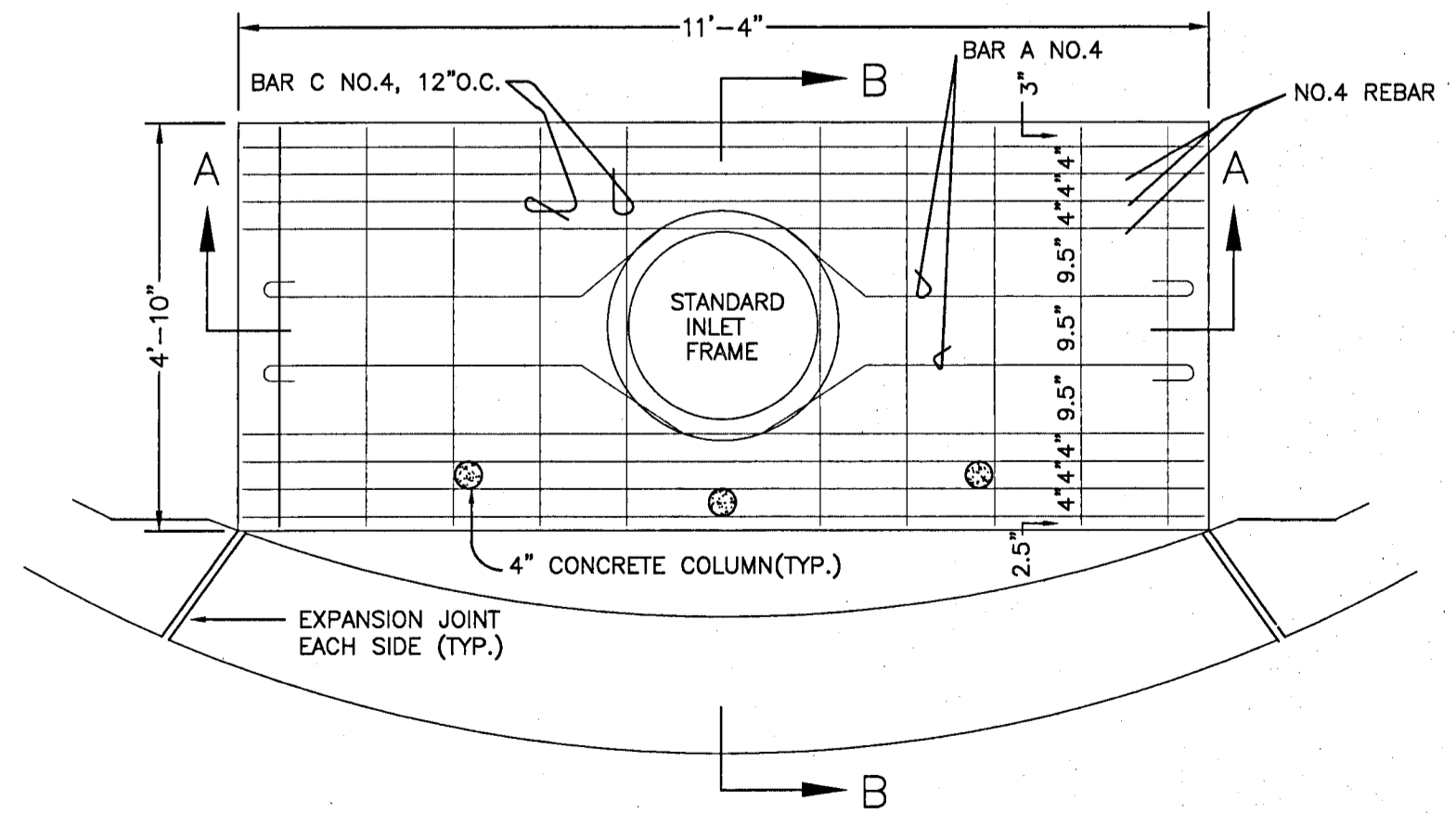


STANDARD JUNCTION BOX
NTS

JUNCTION BOX NOTES:
1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS.
2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED.
3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE FORM PLASTIC GASKET OR EQUAL.
4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.
5. CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A 615 GRADE 60.
6. FRAME AND COVER SHALL BE VULCAN 1337-2 (ASTM SPEC. A-48, CLASS 30 CAST IRON) OR APPROVED EQUAL. REFER TO SPECIFICATIONS.
7. CONTRACTOR IS CAUTIONED TO DETERMINE IF A 4' DIAMETER MANHOLE IS LARGE ENOUGH TO CONTAIN SOME OF THE LARGER PIPES OR CONFIGURATIONS. IT MAY BE NECESSARY TO PROVIDE A LARGER DIAMETER JUNCTION BOX. RECTANGULAR JUNCTION BOXES ARE ACCEPTABLE PROVIDED THEY MEET ESCAMBIA COUNTY REQUIREMENTS AND FDOT SPEC.



TYPE-A CURB INLET DETAIL
NTS



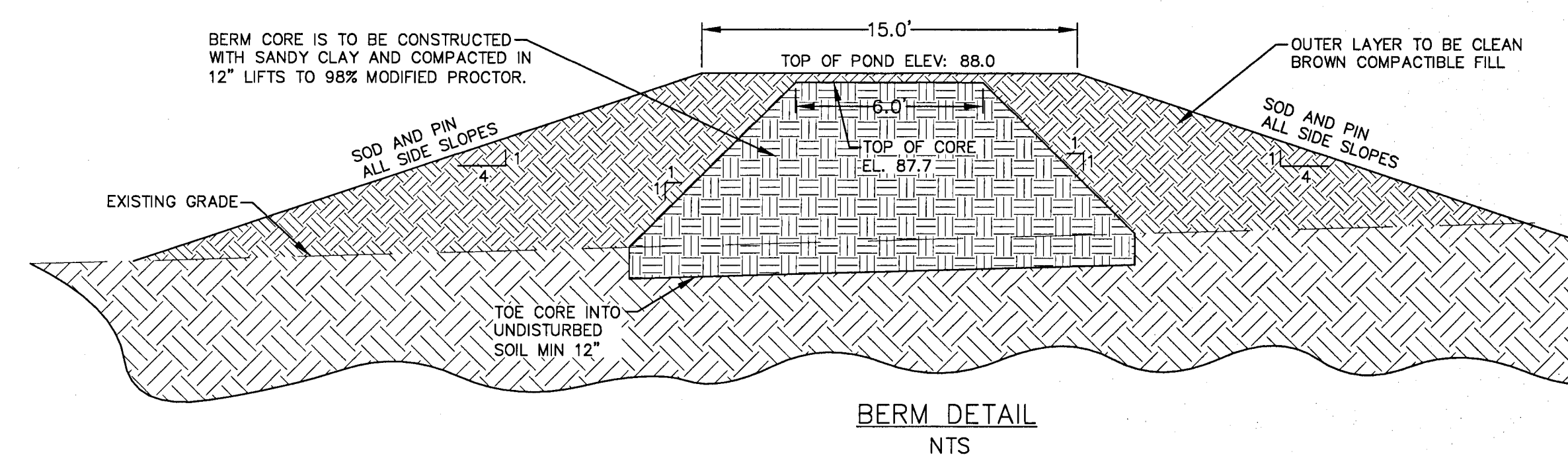
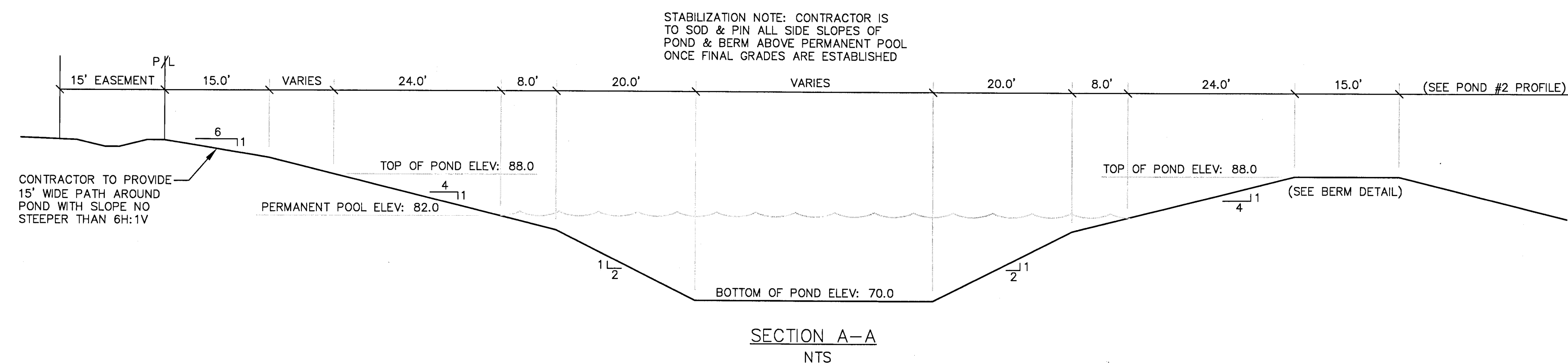
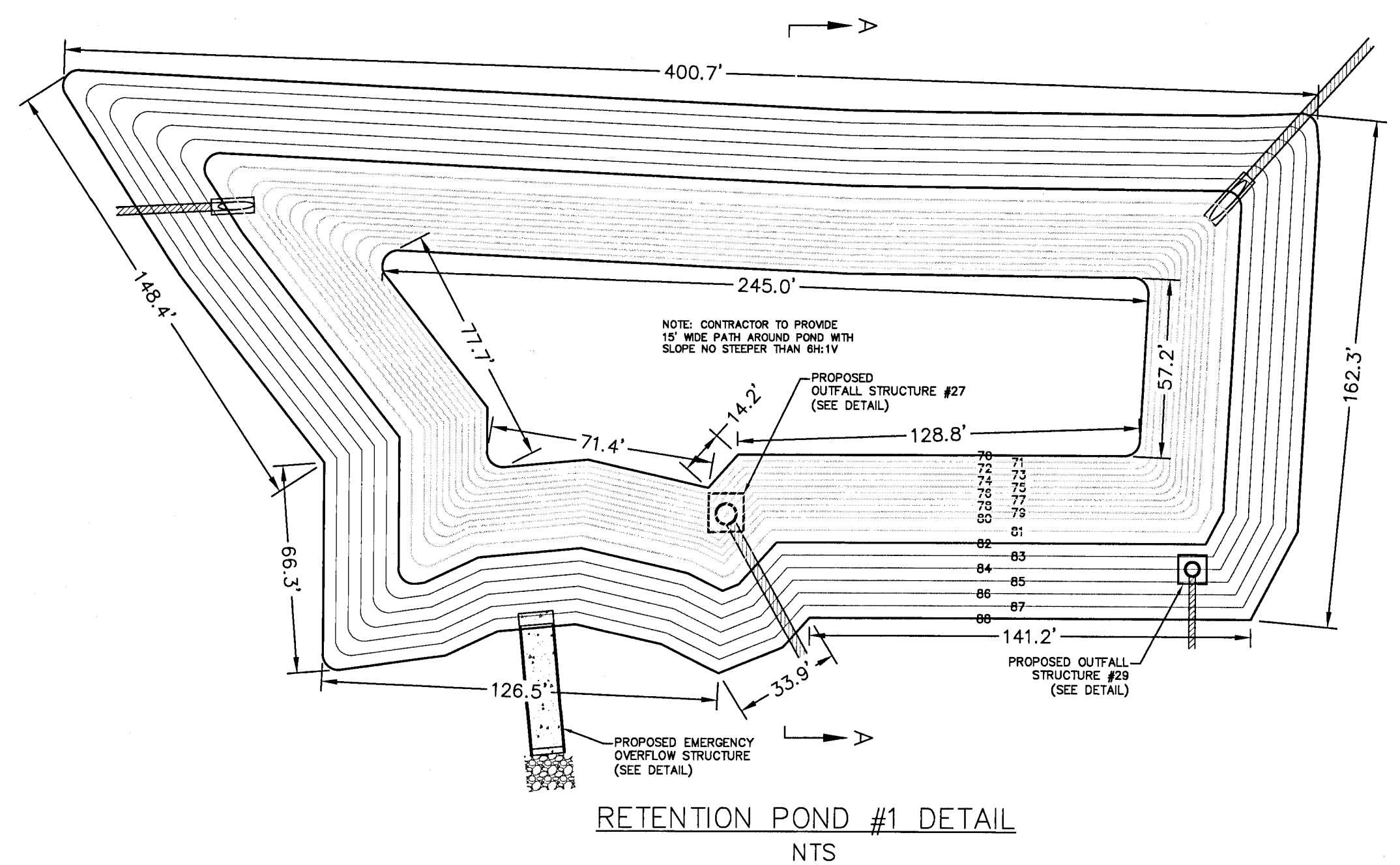
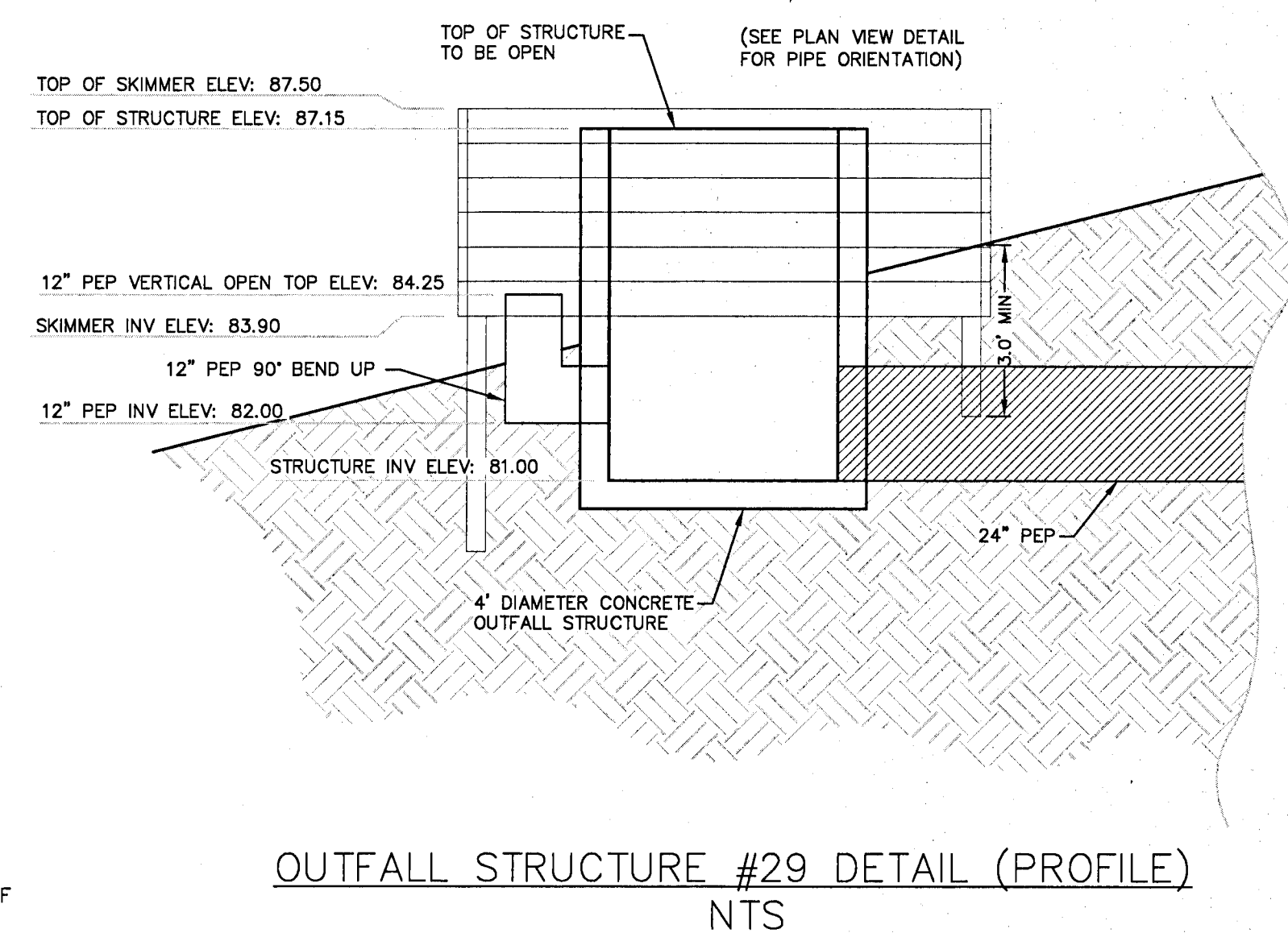
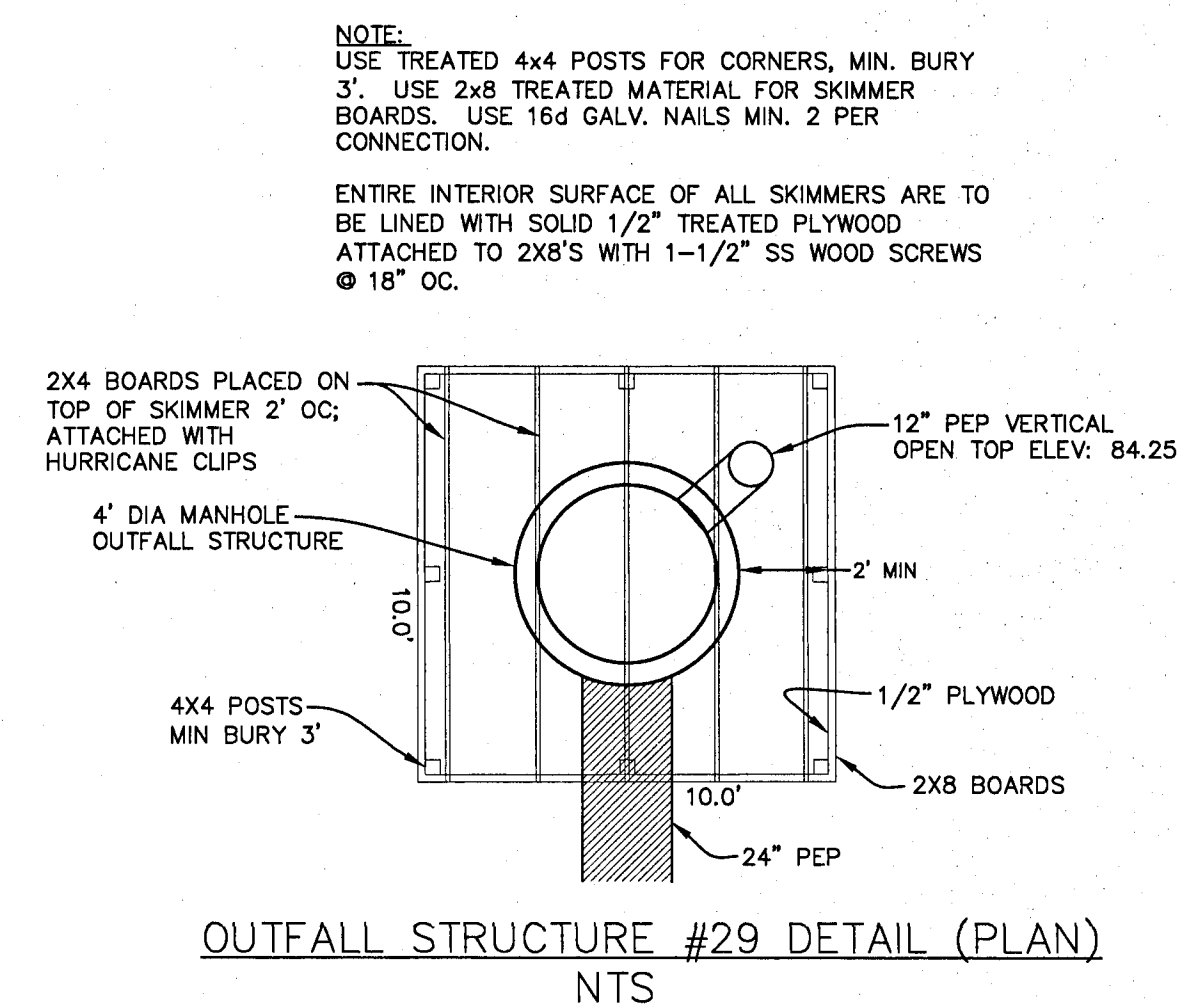
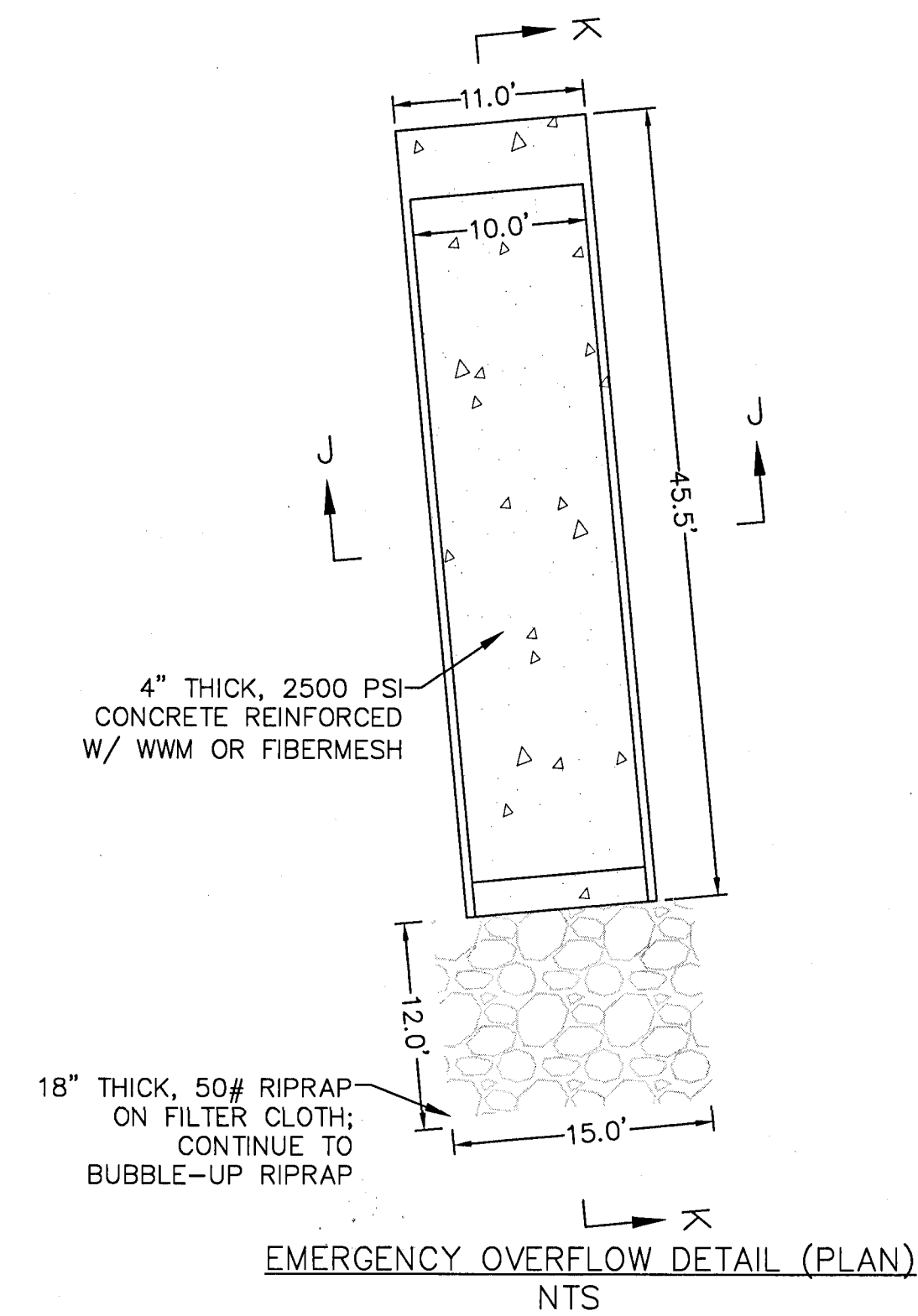
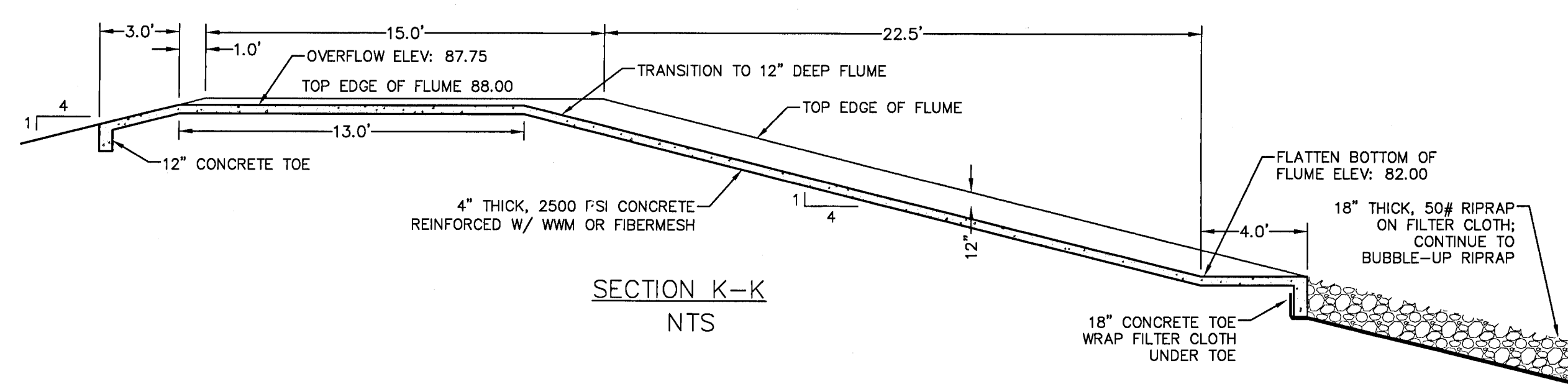
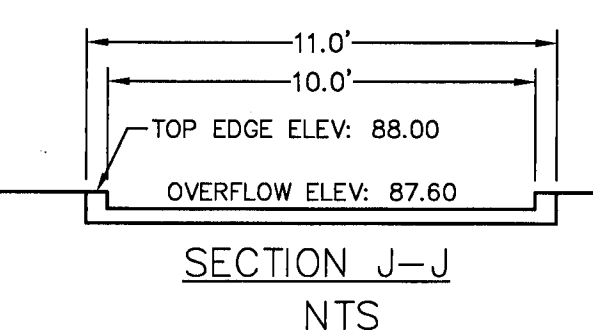
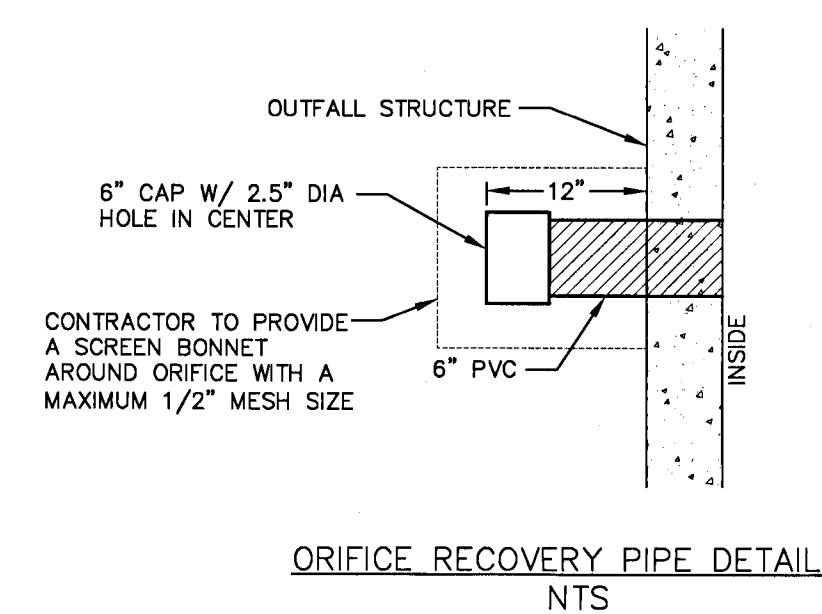
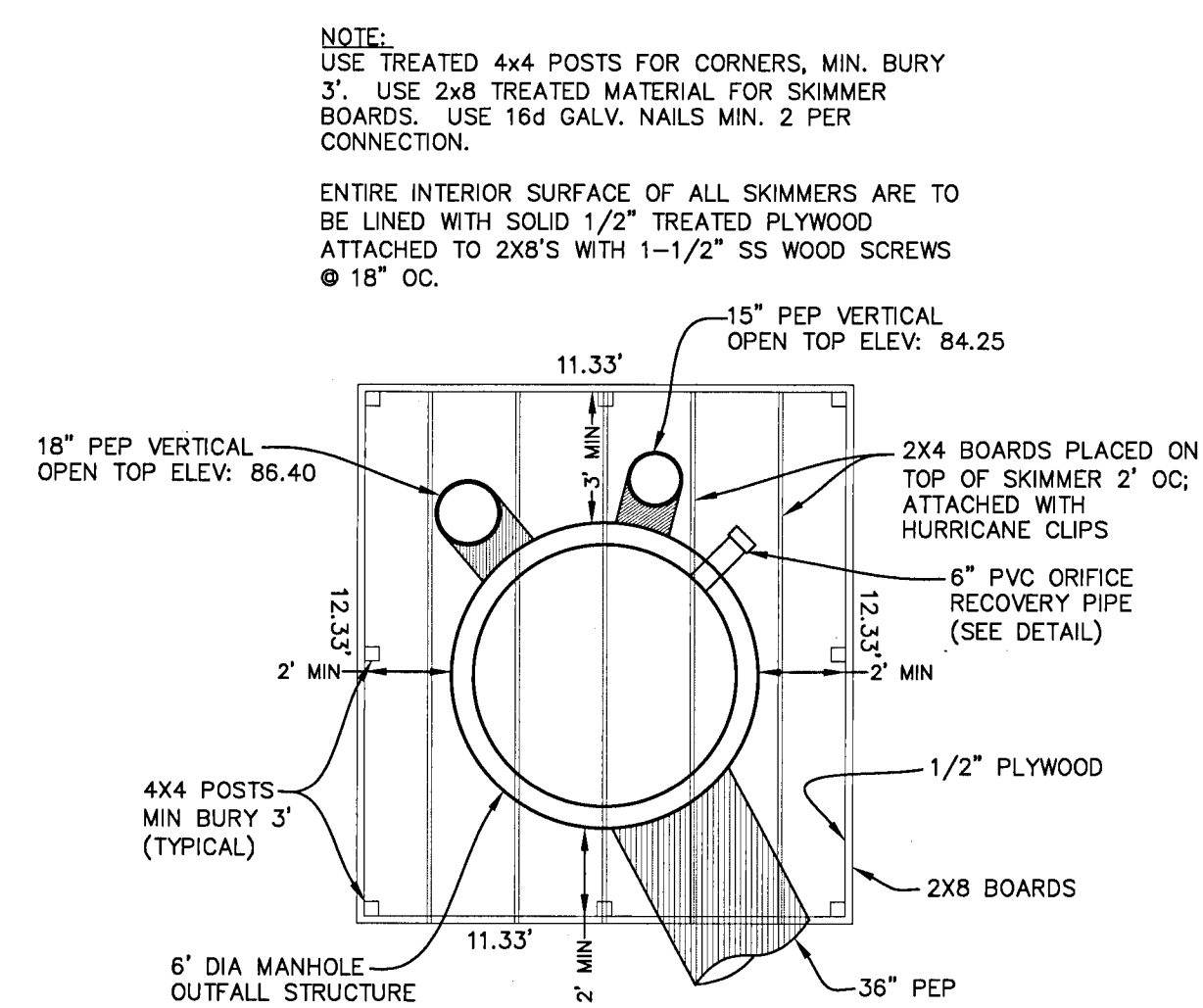
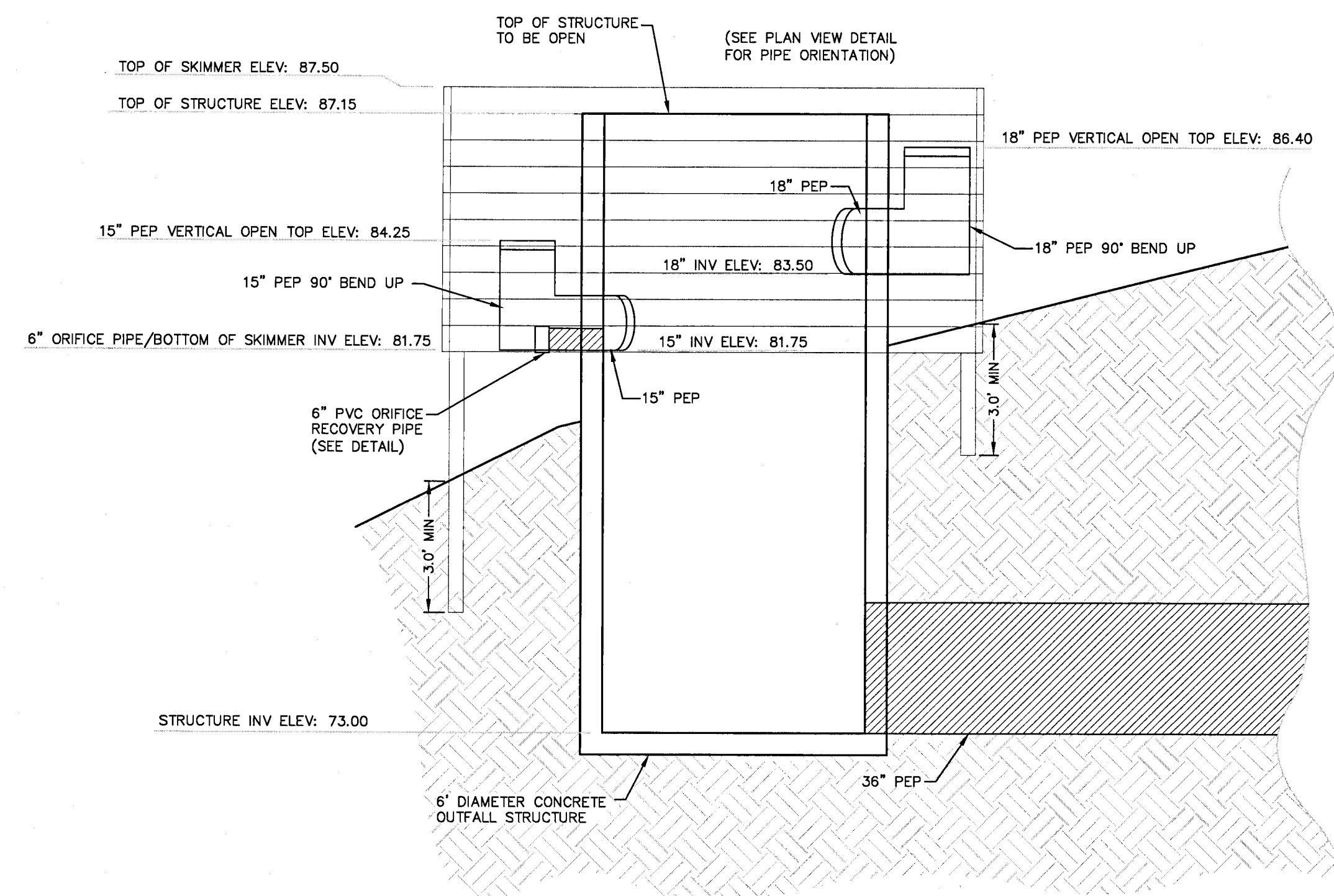
TYPE 'A-1' DROP INLET DETAIL
NTS

DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
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10250 NORTH PALM AVE. SUITE 303
FORT LAUDERDALE, FL 33334
PH: (954) 476-8877 FAX: (954) 476-7708

TURTLE CREEK

DRAINAGE DETAILS

DATE	3/31/21				
REVISION	1	FDOT STANDARD SPECIFICATIONS			
	2	ECUA COMMENT REVISIONS			
	3	ESCAMBIA COUNTY COMMENT REVISIONS			
DRAWN BY:	A. BURKETT				
DESIGNED BY:	D. FITZPATRICK				
SIGNATURE & SEAL	DAVID W. FITZPATRICK				
PROJECT NUMBER	18-039				
PLOT DATE	3/31/21				
SHEET	C22 OF C40				



ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH
THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

NOTE:
USE TREATED 4x4 POSTS FOR CORNERS, MIN. BURY 3'
USE 2x8 TREATED MATERIAL FOR SKIMMER
BOARDS. USE 16d GALV. NAILS MIN. 2 PER
CONNECTION.

ENTIRE INTERIOR SURFACE OF ALL SKIMMERS ARE TO
BE LINED WITH SOLID 1/2" TREATED PLYWOOD
ATTACHED TO 2X8'S WITH 1-1/2" SS WOOD SCREWS
@ 18" OC.

DAVID W. FITZPATRICK
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PENSACOLA, FL 32534
PH: (850)476-8677 FAX: (850)476-7708

TURTLE CREEK
WET DETENTION POND #1 DETAILS

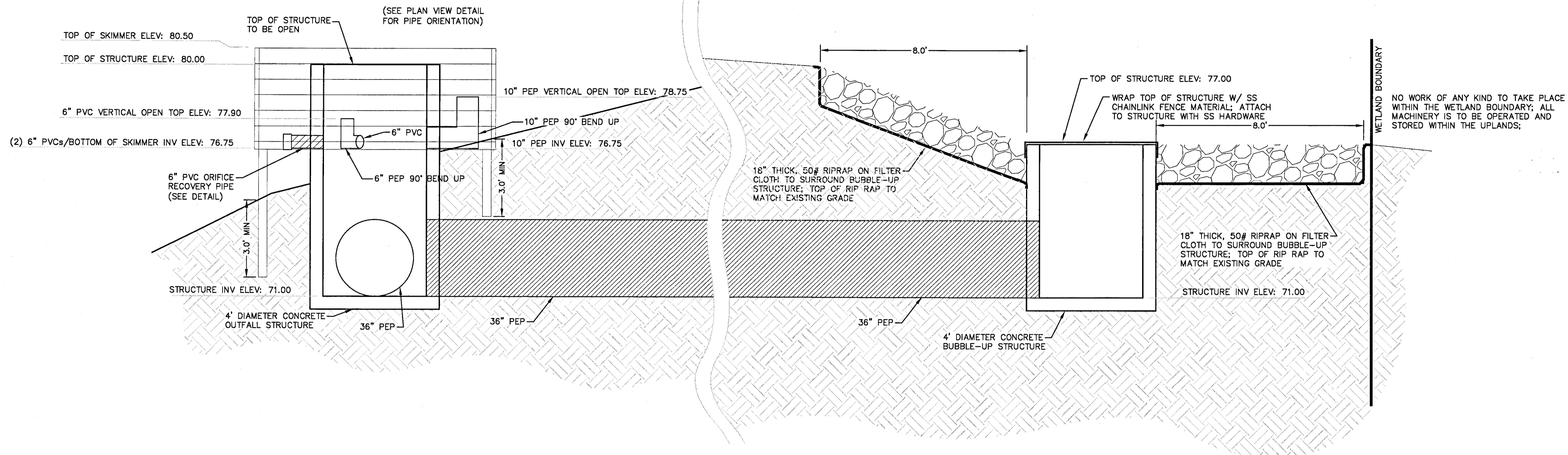
NUMBER	REVISION	DATE
1	FOOT DRAINAGE COMMENT REVISIONS	12/14/09
2	ECHA COMMENT REVISIONS	2/26/11
3	ESCAMBIA COUNTY COMMENT REVISIONS	3/31/21

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK

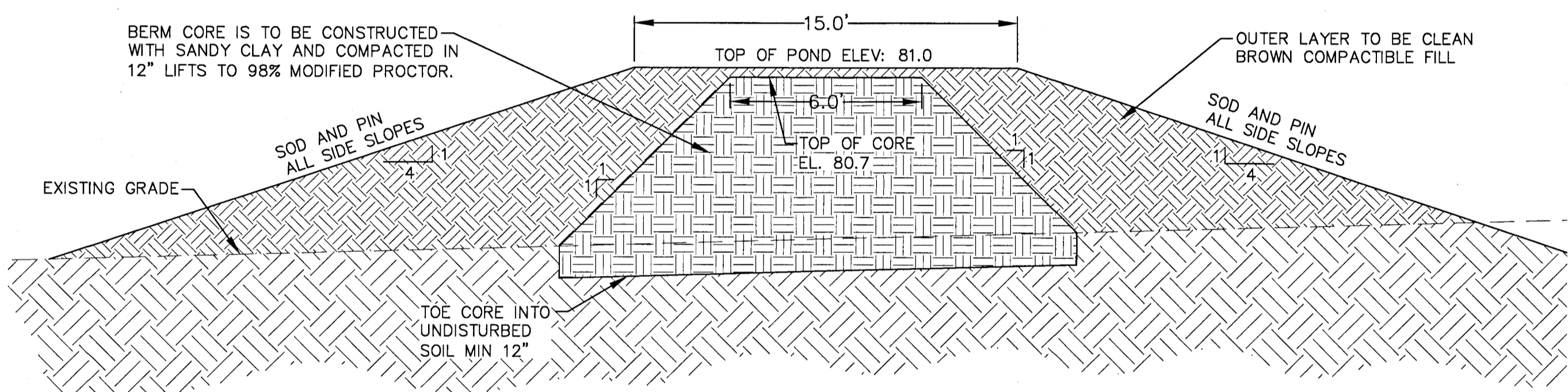
SIGNATURE & SEAL

DAVID W. FITZPATRICK
LICENSE
No 47818
STATE OF FLORIDA
PROFESSIONAL ENGINEER
PROJECT NUMBER 18-039
PLOT DATE 3/31/21
SHEET C23 OF C4

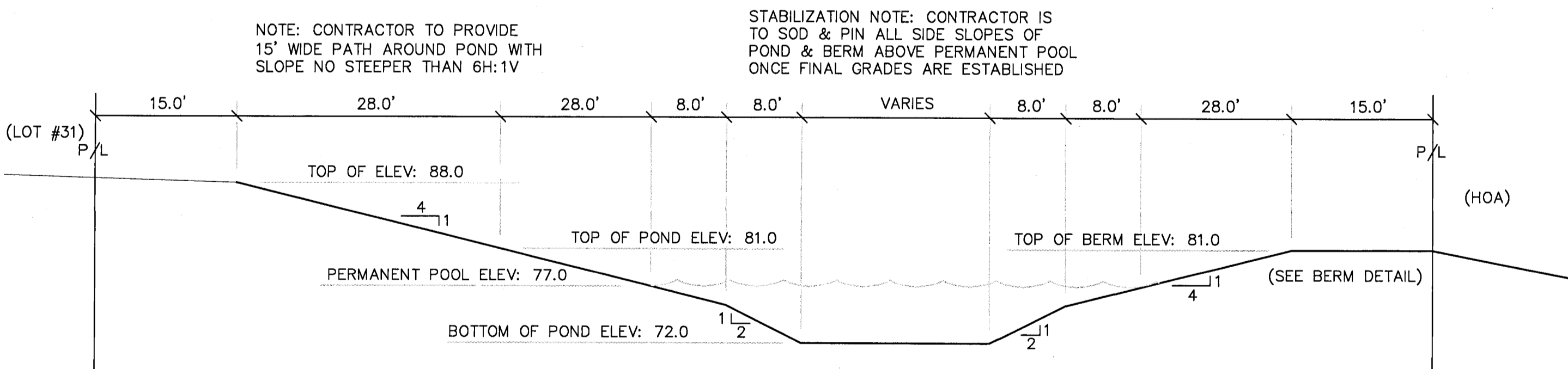
ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL



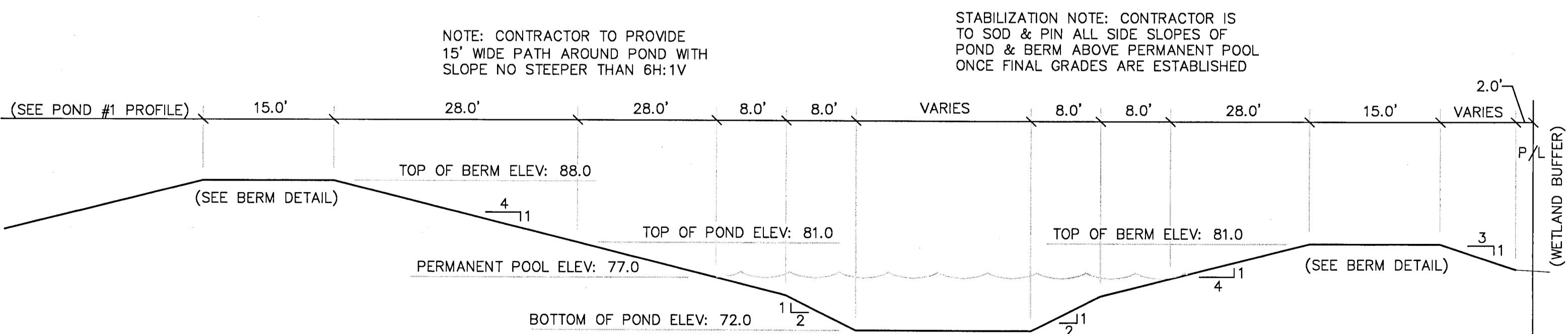
OUTFALL DETAIL (PROFILE)
NTS



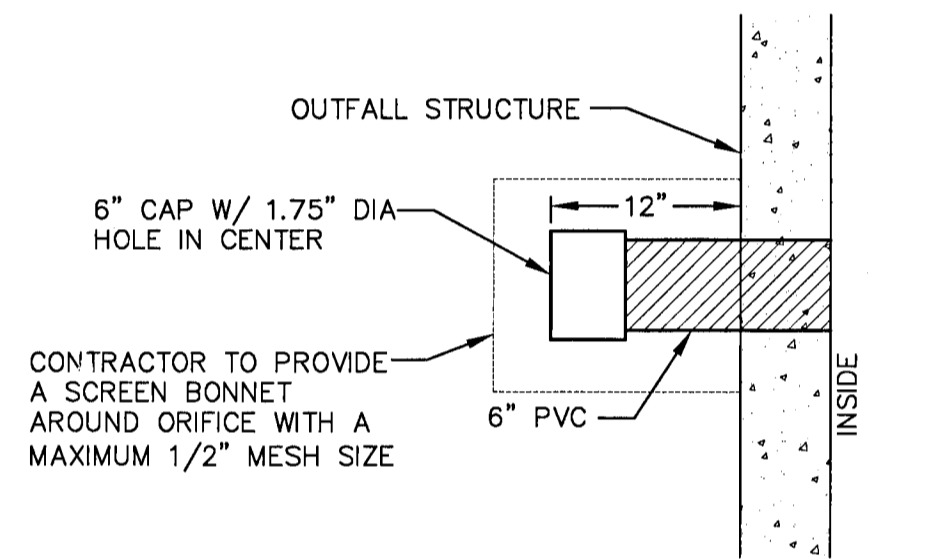
BERM DETAIL
NTS



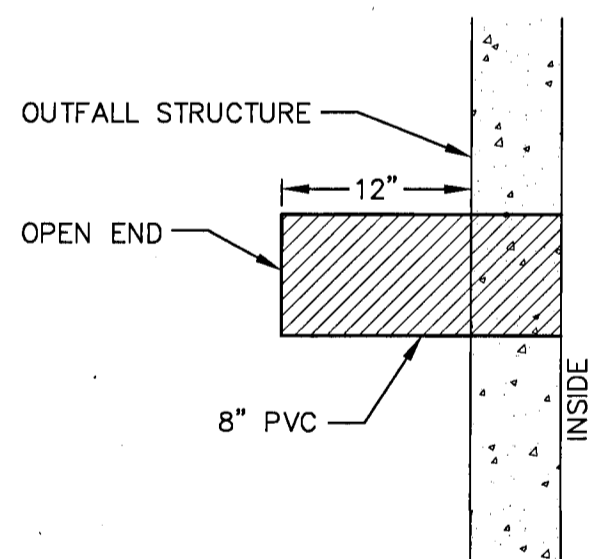
SECTION C-C
NTS



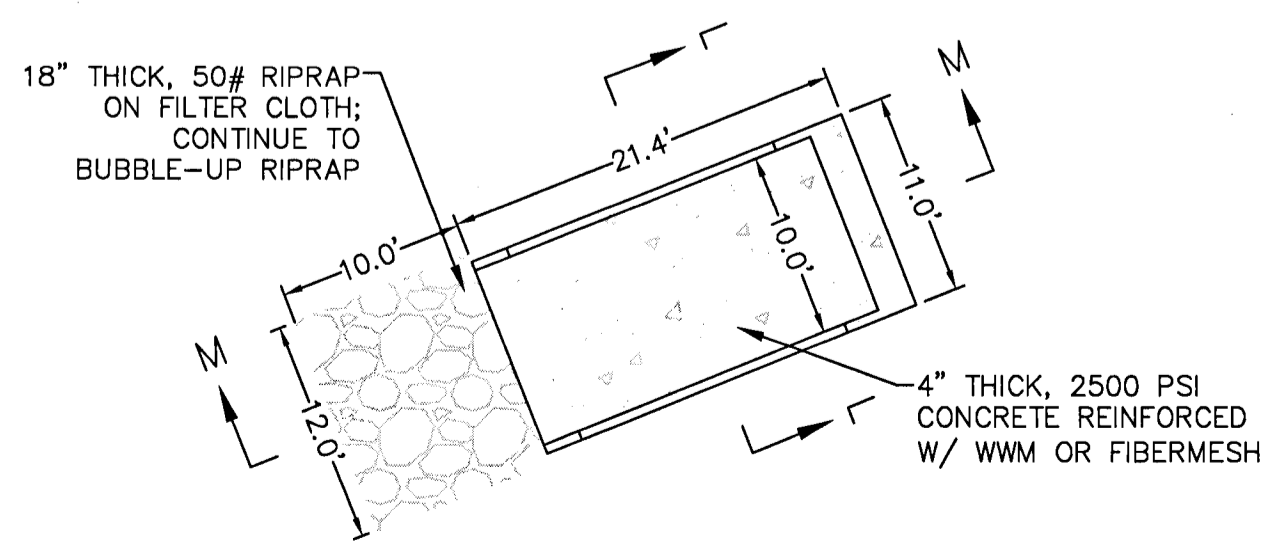
SECTION B-B
NTS



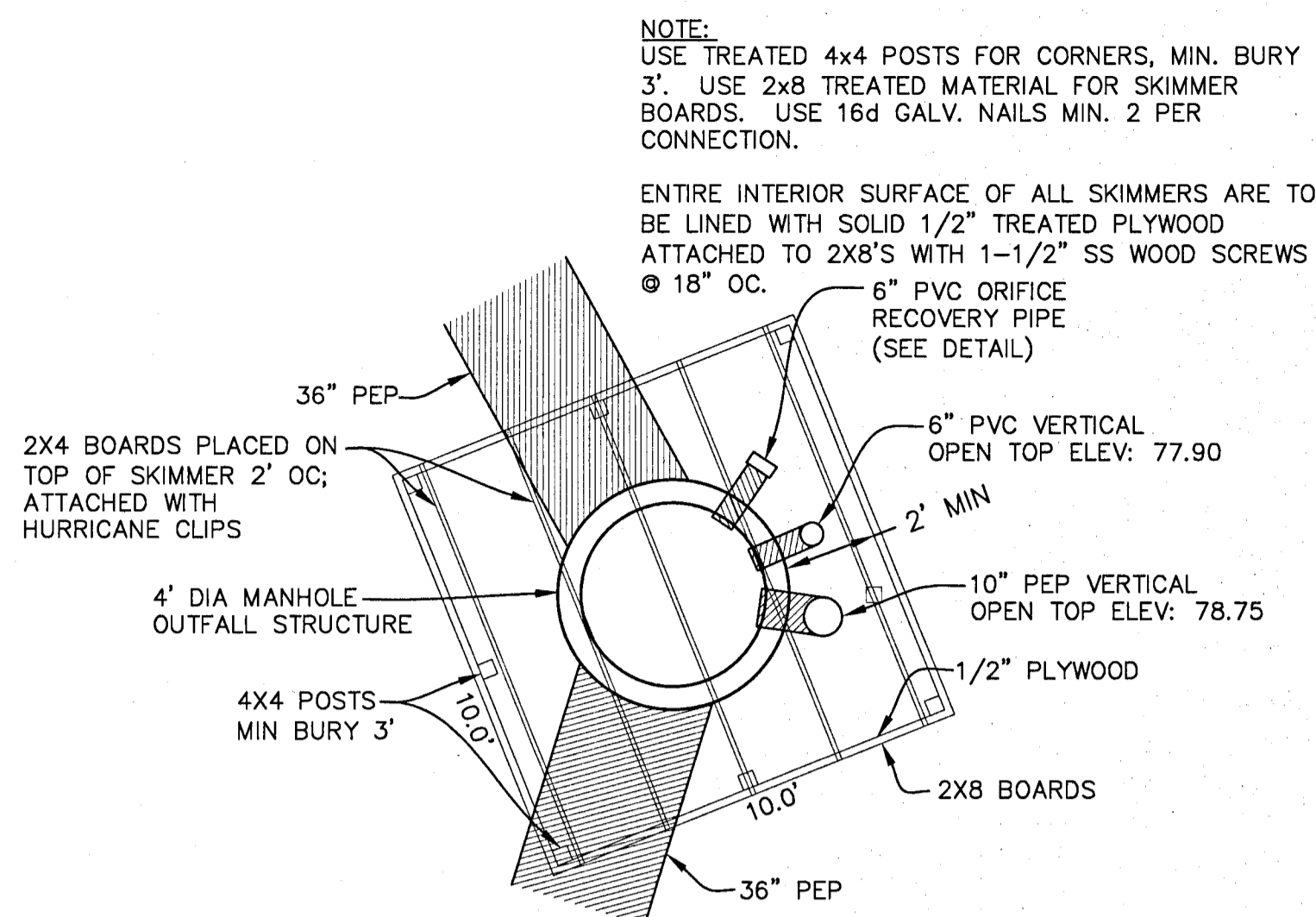
ORIFICE RECOVERY PIPE DETAIL
NTS



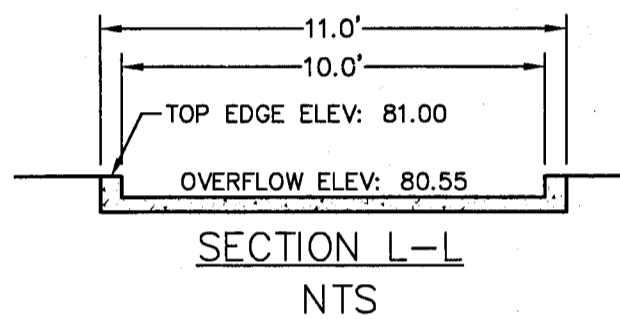
DISCHARGE PIPE DETAIL
NTS



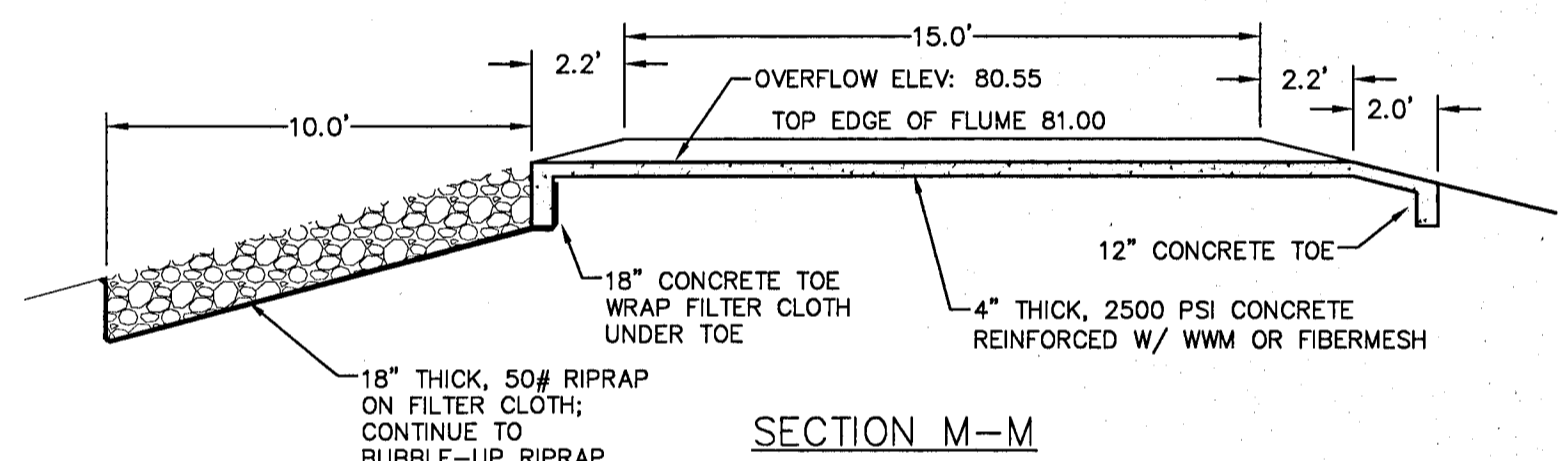
EMERGENCY OVERFLOW DETAIL (PLAN)
NTS



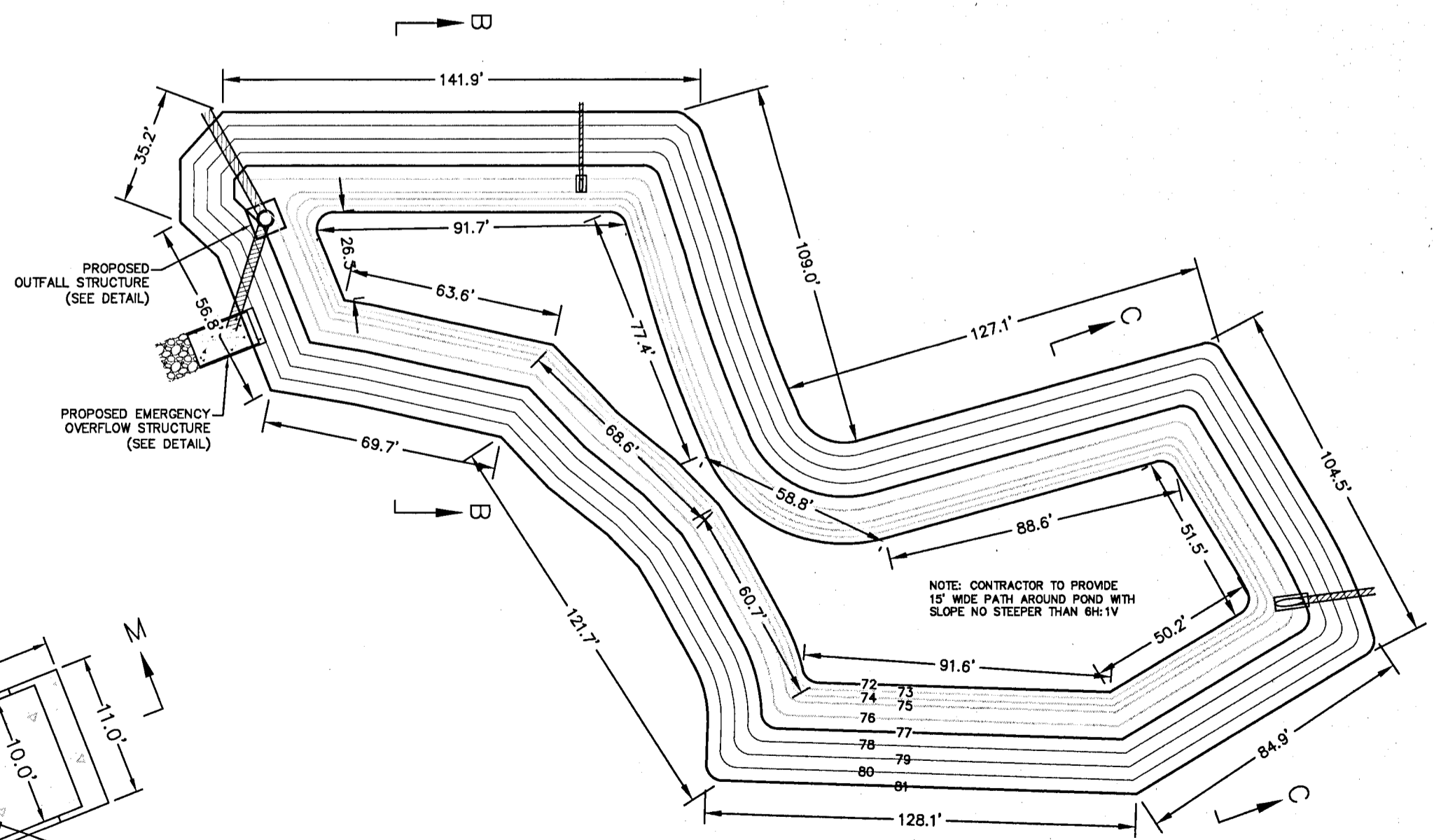
OUTFALL DETAIL (PLAN)
NTS



SECTION L-L
NTS



SECTION M-M
NTS



RETENTION POND #2 DETAIL
NTS

DAVID W. FITZPATRICK
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TURTLE CREEK

WET DETENTION POND #2 DETAILS

REVISION	DATE	BY	CHKD
1	2/2/20	A. BURKETT	
2	2/20/21	D. FITZPATRICK	
3	3/31/21		

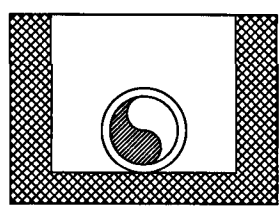
DESIGNED BY	DAVID W. FITZPATRICK
CHECKED BY	D. FITZPATRICK
DATE	3/31/21
PROJECT NUMBER	18-039
PLOT DATE	3/31/21
SHEET	C24 OF C40

CHLORINE REQUIRED FOR STERILIZATION

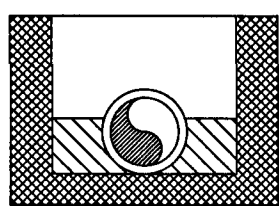
PIPE SIZE	SPECIFICATION	I.D. INCHES	GALLS/100'	CHLORINE REQUIRED PER 100' FOR 25ppm	CHLORINE REQUIRED PER 100' FOR 50ppm
2"	D2241 DR26	2.193	20	0.10 oz.	0.20 oz.
3"	D2241 DR26	3.230	43	0.22 oz.	0.44 oz.
4"	C-900 DR18	4.230	73	0.37 oz.	0.75 oz.
6"	C-900 DR25	6.300	121	0.61 oz.	1.22 oz.
8"	C-900 DR18	8.300	162	0.83 oz.	1.66 oz.
12"	C-900 DR25	11.650	280	1.44 oz.	2.87 oz.
16"	C-900 DR25	12.080	595	3.06 oz.	6.12 oz.
20"	C-905 DR18	15.470	977	5.01 oz.	10.03 oz.
24"	C-905 DR25	16.010	1,046	5.37 oz.	10.74 oz.
	C-905 DR18	19.200	1,504	7.72 oz.	15.45 oz.
	C-905 DR25	19.870	1,611	8.27 oz.	16.55 oz.
	C-905 DR18	N/A	N/A	N/A	N/A
	C-905 DR25	23.742	2,300	11.81 oz.	23.62 oz.

NOTE :
 - 16", 20" and 24" PIPE SIZES ARE C.I.O.D.
 - FOR HTH WITH 65% AVAILABLE CHLORINE
 - 1 US GALLON WEIGHS 8.345 #
 - APPROX. 1 oz./100 gal FOR 50 ppm
 - APPROX. 0.5 oz./100 gal FOR 25 ppm

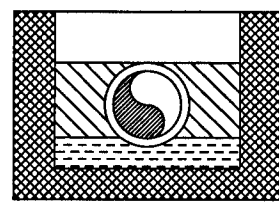
CHLORINE REQUIRED FOR STERILIZATION
N.T.S.



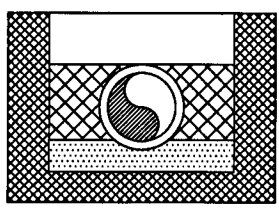
TYPE 1
FLAT-BOTTOM TRENCH, LOOSE EMBEDMENT
E = 20 psf (240 kPa), K = 0.110



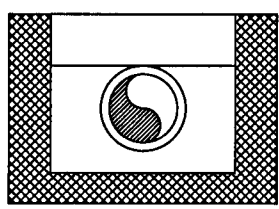
TYPE 2
FLAT-BOTTOM TRENCH, EMBEDMENT LIGHTLY CONSOLIDATED TO CENTRELINE OF PIPE
E = 200 psf (1,380 kPa), K = 0.110



TYPE 3
PIPE BEDDED ON 4" (100 mm) MINIMUM OF LOOSE SOIL, EMBEDMENT LIGHTLY CONSOLIDATED TO TOP OF PIPE
E = 420 psf (2,760 kPa), K = 0.102



TYPE 4
PIPE BEDDED ON SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4" (100 mm) MINIMUM EMBEDMENT COMPACTED TO TOP OF PIPE (APPROXIMATELY BOX STANDARD PROCTOR, AASHTO T-99 OR ASTM D 690)
E = 1,000 psf (6,900 kPa), K = 0.086

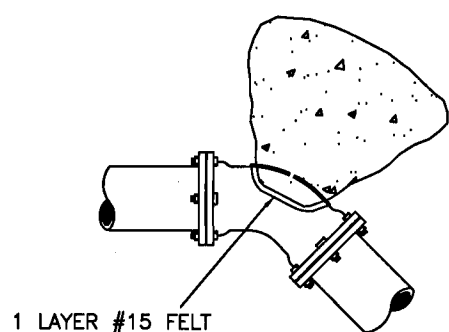


TYPE 5
PIPE EMBEDDED IN COMPACTED GRANULAR MATERIAL TO CENTRELINE OF PIPE, COMPACTED GRANULAR OR SELECT MATERIAL TO TOP OF PIPE (APPROXIMATELY BOX STANDARD PROCTOR, AASHTO T-99 OR ASTM D 690)
E = 2,000 psf (13,800 kPa), K = 0.083

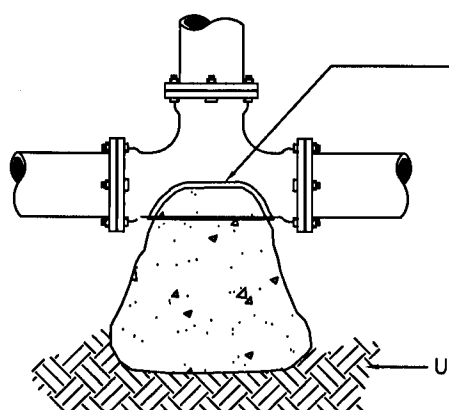
NOTE: REQUIRED EMBEDMENT TYPE WILL DEPEND ON THE PIPE'S DIMENSION RATIO, INTERNAL OPERATING PRESSURE, AND EXTERNAL LOAD, AND SHALL BE SPECIFIED BY THE PURCHASER (SEE SEC. 5.3)
 **"FLAT-BOTTOM" IS DEFINED AS UNDISTURBED EARTH.
 "LOOSE SOIL" OR "SELECT MATERIAL" IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. A SOFT, LOOSE SOIL BEDDING WILL CONTOUR TO THE PIPE BOTTOM. CAUTION MUST BE EXERCISED TO ENSURE PROPER PLACEMENT OF EMBEDMENT MATERIAL UNDER THE HANGERS OF THE PIPE.

From ANMA C.805
UNDERGROUND INSTALLATION OF PVC PIPE

PIPE ENVELOPE REQUIREMENTS
N.T.S.



45° BEND - M.J.

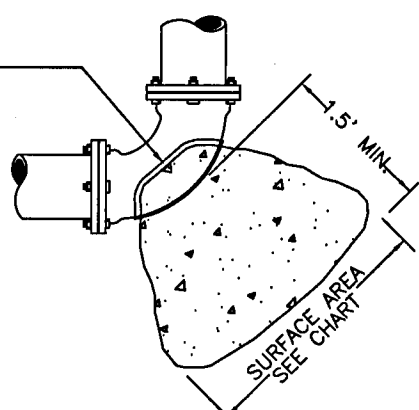


TEE - M.J.

MINIMUM THRUST BLOCK DIMENSIONS:
SURFACE AREA AGAINST UNDISTURBED SOIL

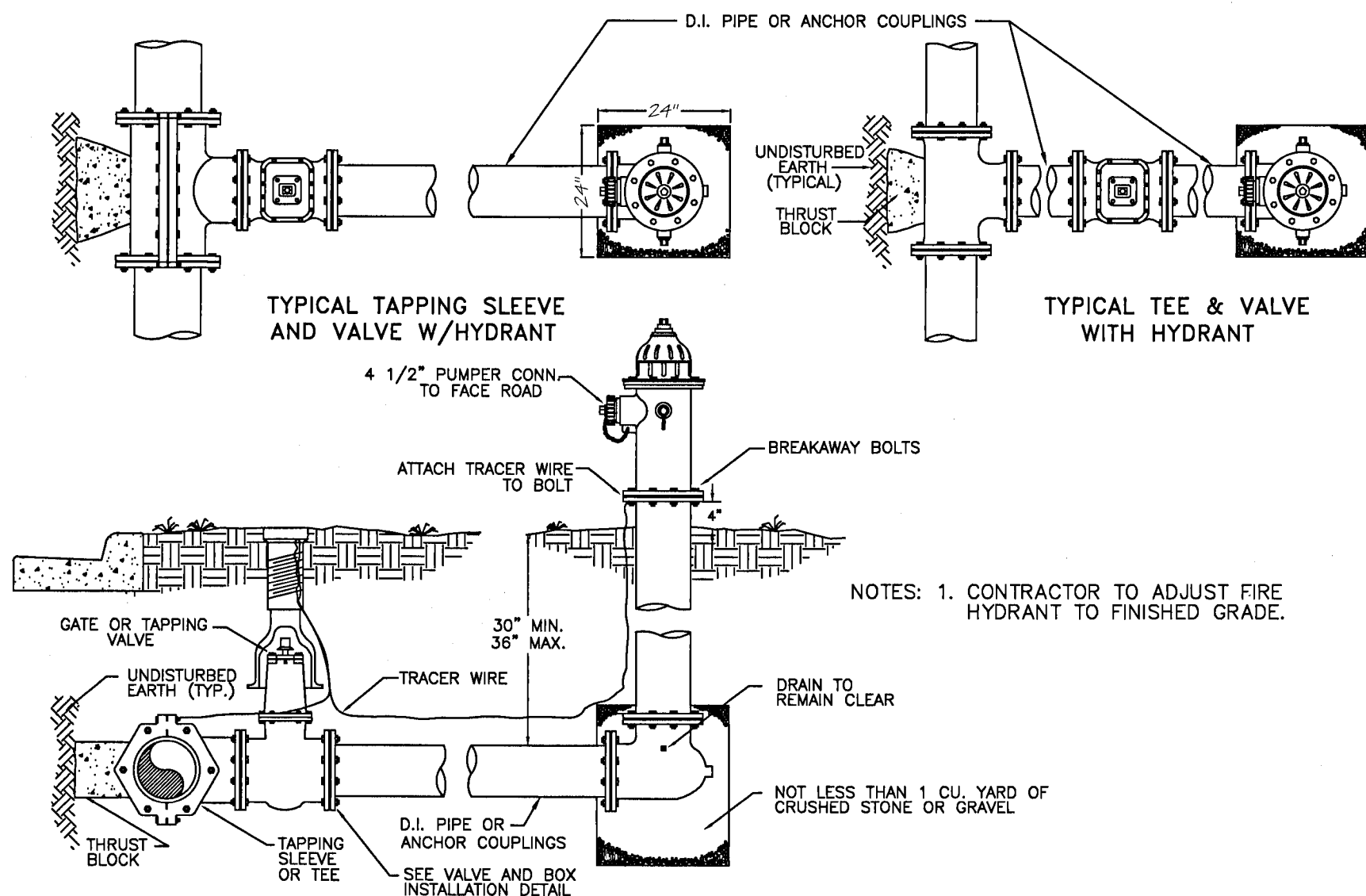
FITTING	DEAD END OR TEE	90° BEND	45° BEND	22.5° BEND
PIPE SIZE				
4"	1' x 2'	1.5' x 1.5'	1' x 1.5'	1' x 1'
6"	2' x 2'	2.5' x 2.5'	2' x 1.5'	1' x 1.5'
8"	2.25' x 3'	3' x 3'	2' x 2.5'	1.5' x 1.5'
10"	3.5' x 3'	4' x 3.75'	2.75' x 3'	2' x 2'
12"	4' x 4'	4' x 5'	3' x 4'	2' x 3'
16"	5' x 5.5'	6' x 6.5'	4' x 5'	3' x 3.5'

NOTES:
 1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
 2. ALL THRUST BLOCKS TO BE BACKED BY UNDISTURBED SOIL.
 3. THRUST BLOCK DIMENSIONS BASED ON SOIL CLASSIFICATION.
 4. CONCRETE MIN. 2,500 PSI.
 5. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS, TRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, TEES, TAPPING SLEEVES, AND DEAD ENDS.



90° BEND - M.J.

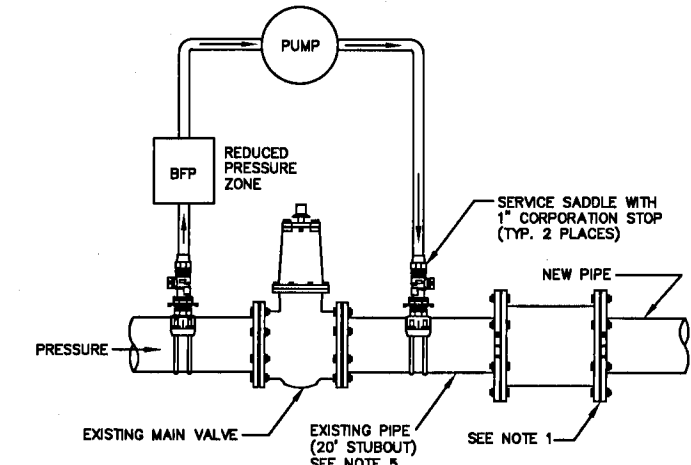
TYPICAL THRUST BLOCK INSTALLATIONS
N.T.S.



TYPICAL FIRE HYDRANT INSTALLATION:
TAPPING SLEEVE & VALVE and TEE CONNECTION
N.T.S.

NOTES:

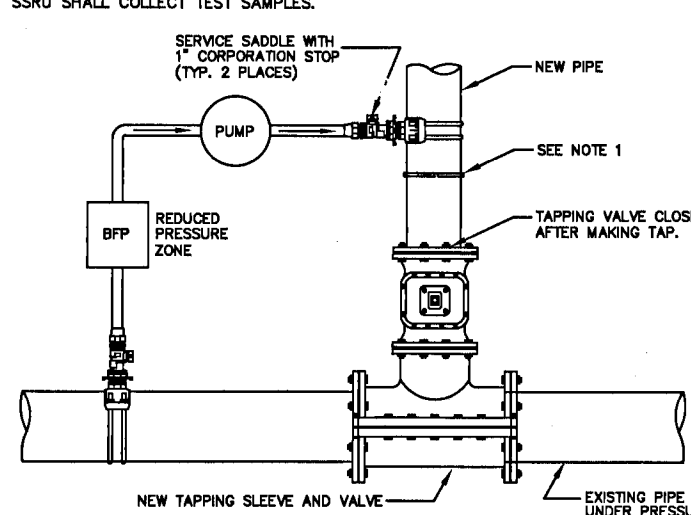
1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORY, COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO SSRU.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE. WITH ALL HYDRANTS AND SERVICE LINES OPEN. SSRU INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER. CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE SSRU INSPECTOR. SSRU SHALL COLLECT TEST SAMPLES.
5. IF 8" STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (EXISTING STUBOUT)

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORY, COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE. WITH ALL HYDRANTS AND SERVICE LINES OPEN. SSRU INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER. CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE SSRU INSPECTOR. SSRU SHALL COLLECT TEST SAMPLES.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

TYPICAL DISINFECTION & CHLORINATION
N.T.S.

PIPE JOINT RESTRAINT TABULATION

SHOWING DISTANCES IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED

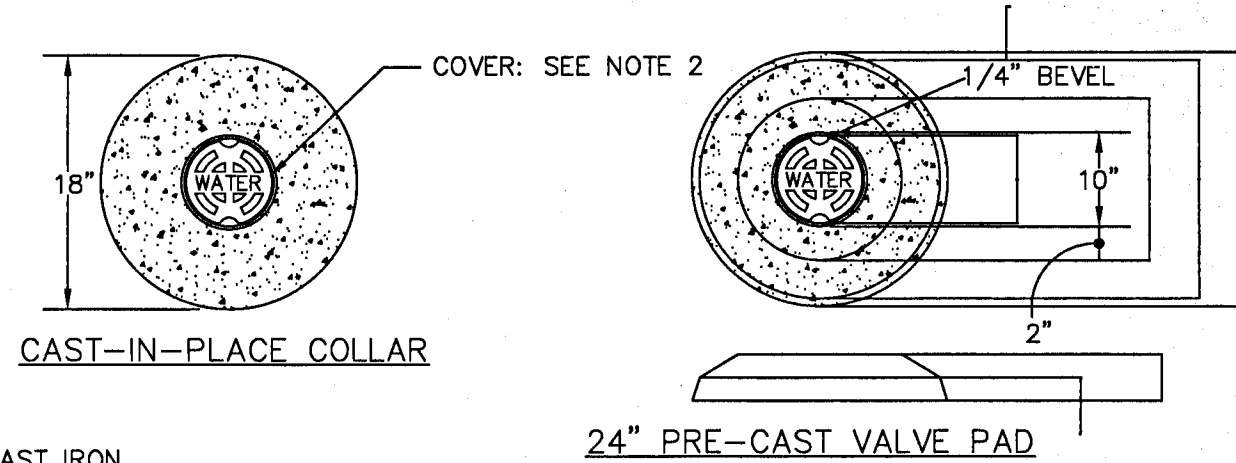
PIPE SIZE AND TYPE	HORIZONTAL BENDS					TEES (LENGTH ALONG BRANCH)
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.	DEAD ENDS	
3" DI	18	8	4	2	33	20
4" DI	22	9	4	2	39	25
6" DI	31	13	6	3	55	37
8" DI	40	17	8	4	72	49
10" DI	48	20	9	5	86	60
12" DI	56	23	11	5	101	71
16" DI	70	29	14	7	129	92
20" DI	84	35	17	8	156	112
24" DI	96	40	19	9	181	131
6" PVC	28	12	6	3	62	39
8" PVC	39	16	8	4	87	58
10" PVC	50	21	10	5	114	78
12" PVC	60	25	12	6	136	94
16" PVC	70	29	14	7	160	112
20" PVC	88	36	17	9	205	146
24" PVC	105	43	21	10	247	177
24" DI	120	50	24	12	287	207

- NOTES:
 1. VALVES ARE BASED ON TEST PRESSURE =150 PSI, SOIL =SM, TRENCH TYPE =3, DEPTH =2.5', SAFETY FACTOR =2.0 (1.5 FOR TEES WITH LR =2').
 2. AS A MINIMUM ALL FITTINGS SHALL BE RESTRAINED TO THE NEXT JOINT.
 3. FOR OVERLAPPING JOINT RESTRAINTS, THE MOST RESTRICTIVE WILL APPLY. THE FARM HILL UTILITIES ENGINEER OR INSPECTOR MAY MAKE AN EXCEPTION IF THE DISTANCE TO BE RESTRAINED REQUIRES TEARING UP AN EXISTING ROADWAY.
 4. AN UNEQUAL TEE IS A TEE WHERE ONE OF THE DIAMETERS IS UNEQUAL (I.E. 6X8X4). RESTRAINED LENGTH FOR AN UNEQUAL TEE IS BASED ON DISTANCES FOR THE LARGER DIAMETER SHOWN IN THE TABLE. THE DESIGN ENGINEER MAY PROVIDE CALCULATIONS TO JUSTIFY A REVISED RESTRAINT DISTANCE.
 5. IF A DEAD-END IS WITHIN A FEW FEET OF A REDUCER, THEN RESTRAIN THE REDUCER AS A DEAD-END BASED ON THE LARGER DIAMETER PIPE. OTHERWISE RESTRAIN THE REDUCER AT THE NEAREST JOINT OR A MINIMUM OF 20 FEET (WHICHEVER IS GREATER).
 6. RESTRAINED LENGTHS FOR A VERTICAL OFFSETS MUST BE INDIVIDUALLY CALCULATED.

Separation Requirements for Public Water System Mains:

Other Pipe	Horizontal Separation (X)	Crossings Vertical Separation (Y)	Joint Spacing (Z) @ Crossings (Full Joint Centered)
<ul style="list-style-type: none"> Storm Sewers Stormwater Force Mains Reclaimed Water Pipelines regulated under Part III of Chapter 62-610, F.A.C. 	3 ft. minimum	For water main installed above other pipe (preferred), 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Vacuum Sanitary Sewer 	10 ft. preferred 3 ft. minimum	For water main installed above other pipe, 12 inches preferred and 6 inches minimum 12 inches minimum if water main is below other pipe	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Gravity or Pressure Sanitary Sewer Sanitary Sewer Force Main Reclaimed Water Pipelines not regulated under Part III of Chapter 62-610, F.A.C. 	10 ft. preferred 6 ft. minimum (note - 3 ft. minimum for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer)	For water main installed above other pipe (preferred), 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred 12 inches minimum if water main is below other pipe	Alternate 6 ft. minimum
<ul style="list-style-type: none"> On-Site Sewage Treatment & Disposal System 	10 ft. minimum	NA	NA

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

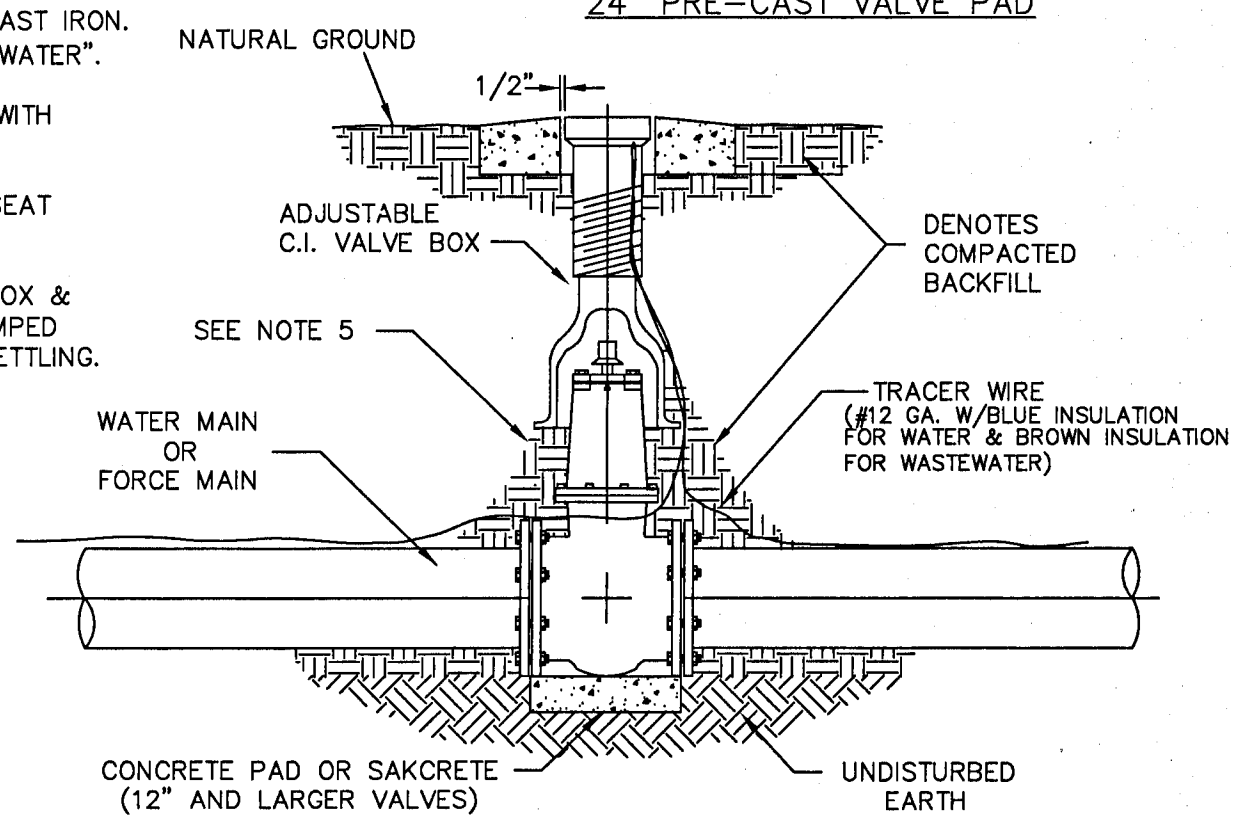


CAST-IN-PLACE COLLAR

24" PRE-CAST VALVE PAD

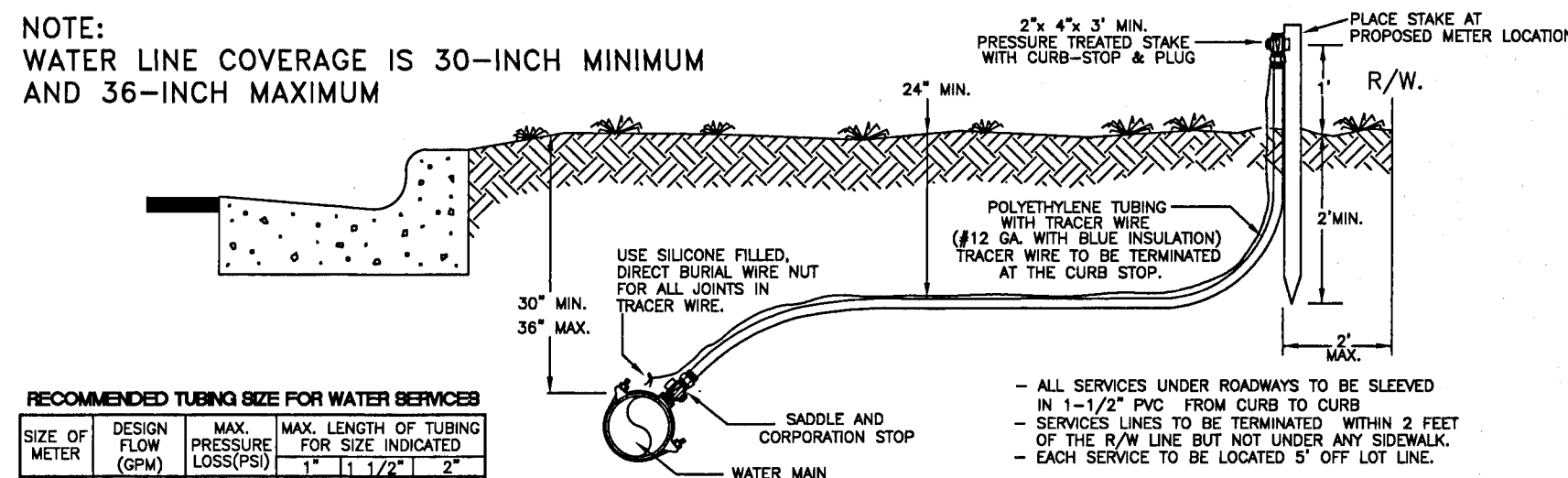
NOTES:

1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "WATER". OR "SEWER" AS APPLICABLE.
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUIVALENT.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



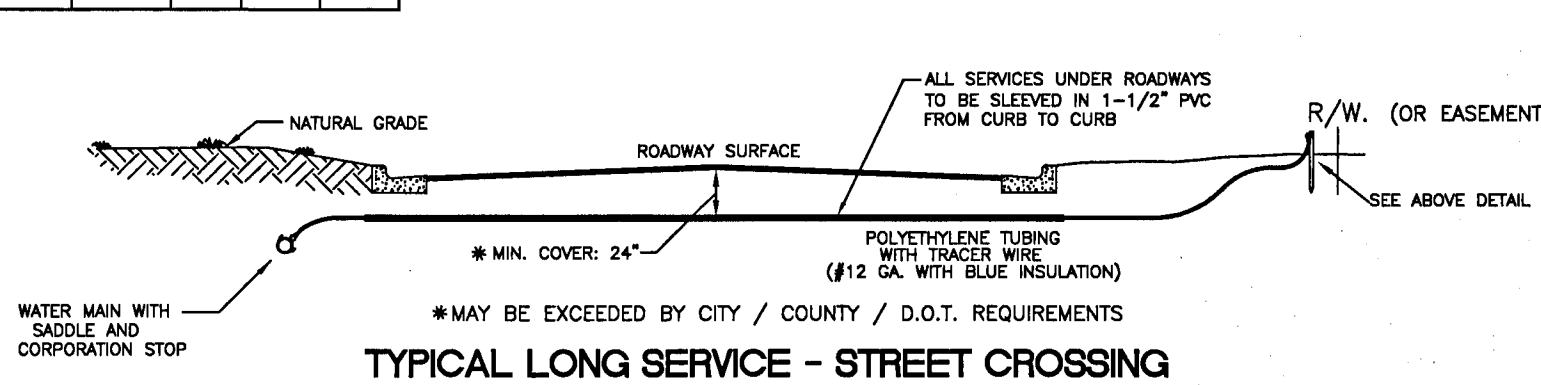
TYPICAL VALVE & BOX INSTALLATION
N.T.S.

NOTE:
WATER LINE COVERAGE IS 30-INCH MINIMUM AND 36-INCH MAXIMUM



TYPICAL SHORT SERVICE

SIZE OF METER	DESIGN FLOW (GPM)	MAX. PRESSURE LOSS (PSI)	MAX. LENGTH OF TUBING FOR SIZE INDICATED
5/8"	20	10	92 661 2678
1"	50	10	17 121 492
1 1/2"	100	10	34 136
2"	160	10	57



TYPICAL LONG SERVICE - STREET CROSSING
N.T.S.

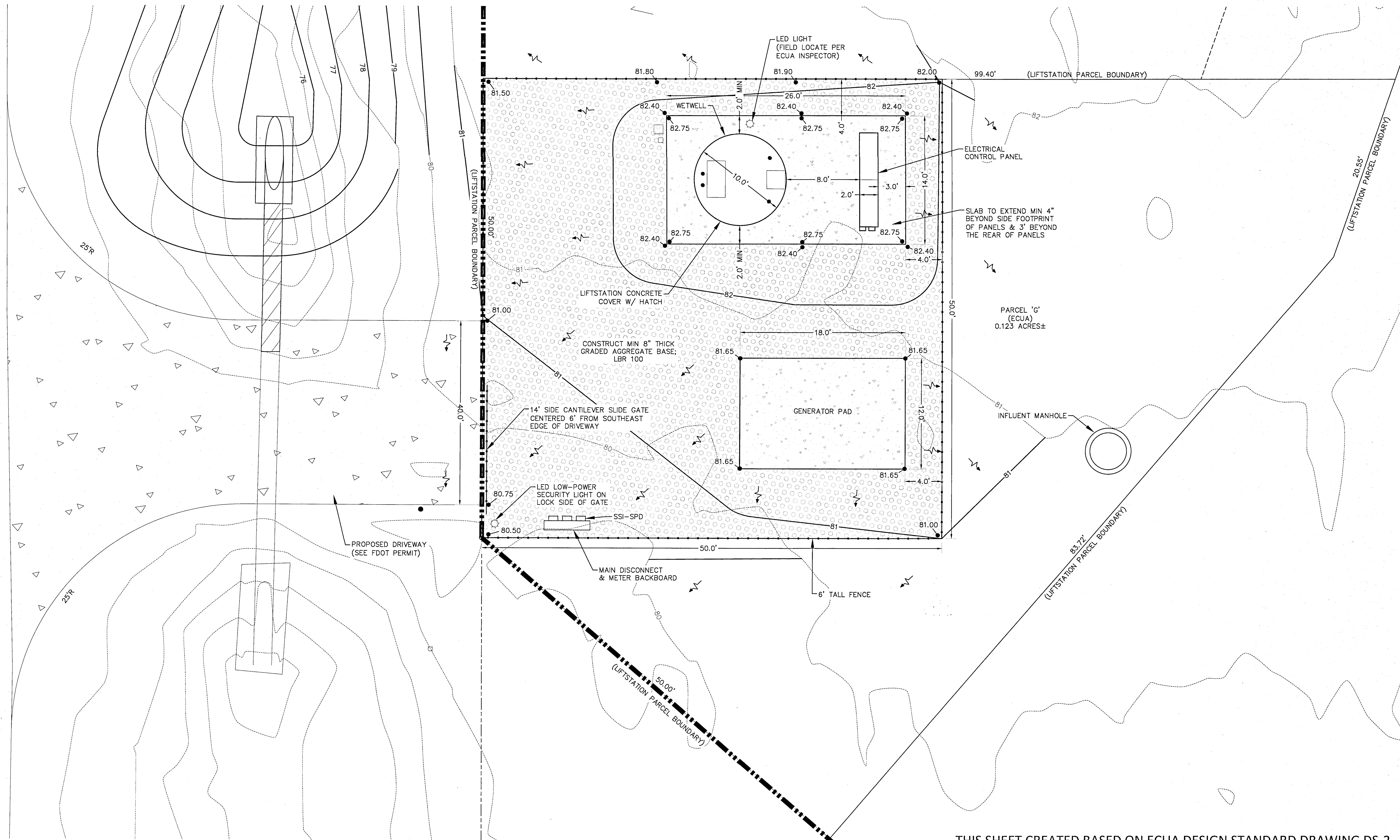
TYPICAL WATER SERVICE INSTALLATION
N.T.S.

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TURTLE CREEK

POTABLE WATER DETAILS

REVISION	DATE
FOOT DRAGAGE COMMENT REVISIONS	12/1/08
FOOT COMMENT REVISIONS	2/26/1
ESCAMBA COUNTY COMMENT REVISIONS	10/1/12



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TURTLE CREEK
LIFTSTATION DETAILS - SITE / GRADING

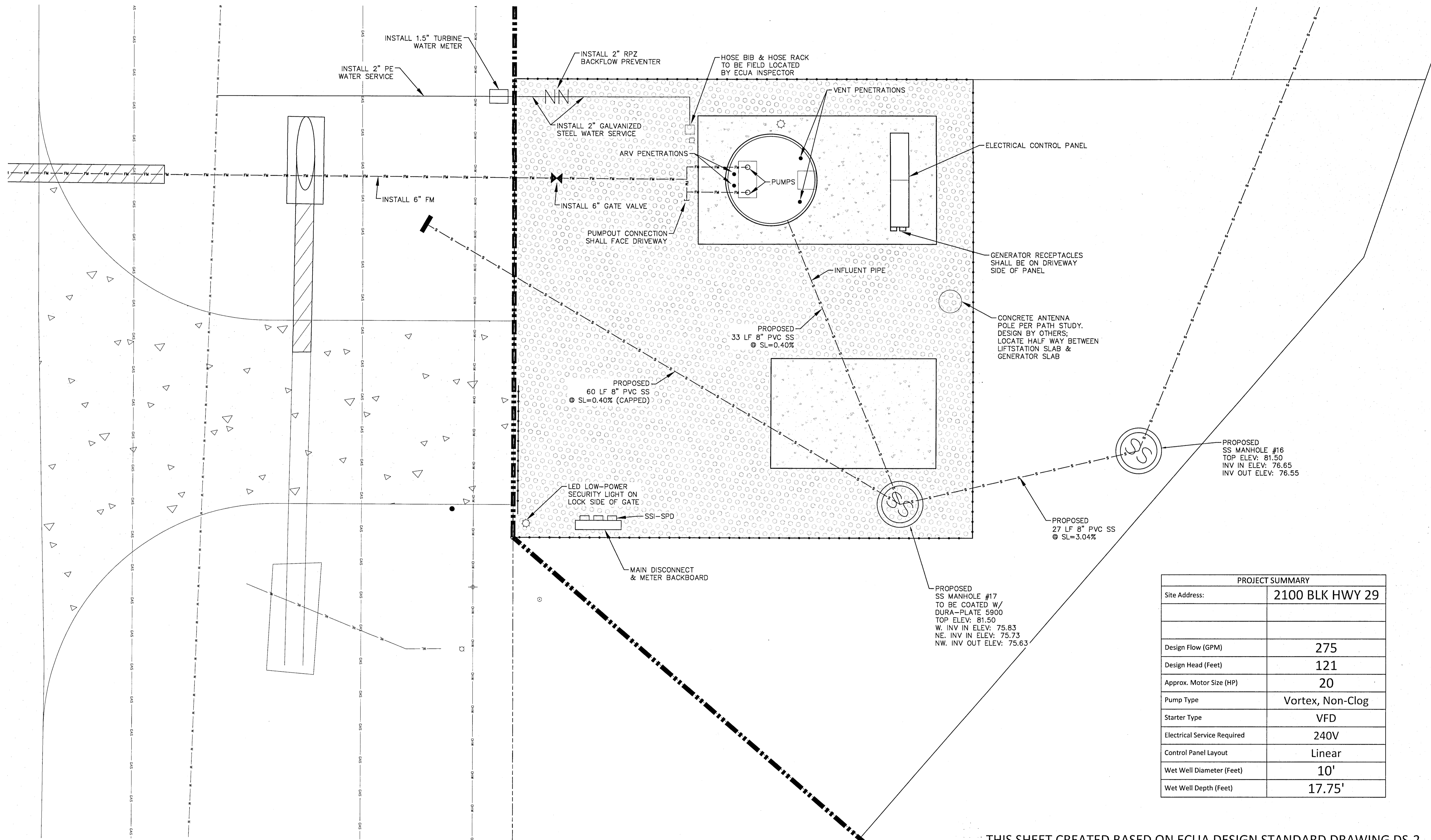
REVISION	DATE	BY	DESCRIPTION
1	12/10/20	DAVID W. FITZPATRICK	FOOT DRAINAGE COMMENT REVISIONS
2	2/26/21	DAVID W. FITZPATRICK	ECUA COMMENT REVISIONS
3	3/31/21	DAVID W. FITZPATRICK	ECUA COMMENT REVISIONS

DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
STATE OF FLORIDA
LICENSE # 47878
DATE: 3/31/21
PROJECT: 18-039
SHEET: C27 OF C40



PROJECT SUMMARY	
Site Address:	2100 BLK HWY 29
Design Flow (GPM)	275
Design Head (Feet)	121
Approx. Motor Size (HP)	20
Pump Type	Vortex, Non-Clog
Starter Type	VFD
Electrical Service Required	240V
Control Panel Layout	Linear
Wet Well Diameter (Feet)	10'
Wet Well Depth (Feet)	17.75'

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TURTLE CREEK
LIFTSTATION DETAILS - UTILITIES

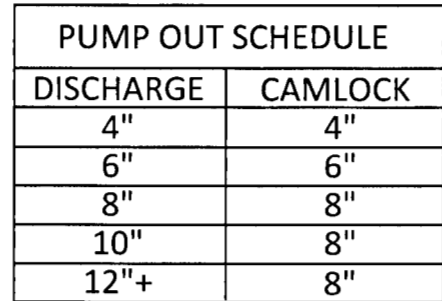
DATE	1/1/2020
REVISIONS	
1	1.000
2	1.001
3	1.002

DESIGNED BY	A. BURKETT
DESIGNED BY	D. FITZPATRICK
SIGNATURE & SEAL	
PROJECT NUMBER	18-039
PLOT DATE	3/31/21
SHEET	C28 OF C40

DAVID W. FITZPATRICK

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LIFTSTATION DETAILS - DS-3



1. FAILURE TO PROVIDE HATCHES AS SPECIFIED IN SECTION 2575 WILL RESULT IN ECUA'S REJECTION OF ACCESS HATCH AND/OR WET WELL.
2. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A BITUMASTIC PAINT.

NOT TO SCALE

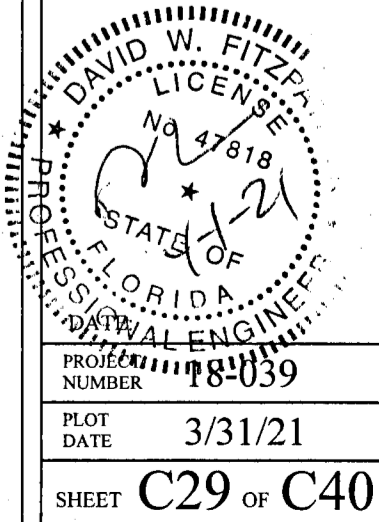


NOT TO SCALE

GENERAL LIFT STATION NOTES

1. THE LOCATION OF INFLUENT LINES, WATER SUPPLY, ETC. ARE DRAWN OUT OF ORIENTATION ON SECTION VIEW FOR CLARITY. SEE PLAN VIEW FOR PROPER CLARITY.
2. ALL PENETRATIONS IN WET WELL WALL FOR PIPING, ELECTRICAL, ETC. SHALL BE SEALED & SLEEVED.
3. TO PROTECT RISER PIPE FROM SWAY BRACE, EITHER WRAP PIPE WITH RUBBER SHEETING OR INSERT ALL U-BOLTS THROUGH RUBBER HOSE.
4. PIPING WITHIN THE WET WELL SHALL BE FLANGED SCHEDULE 10 316 STAINLESS STEEL. INTERMEDIATE JOINTS SHALL BE WELDED. FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. ALL NUTS, BOLTS & ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
5. PIPE AND FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE 316 STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD ON FLANGES SHALL BE 125# RF SOCKET-WELD FLANGE OR RF WELD NECK FLANGE (TYPE). ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" COMPOUND.
6. THE ANNUAL SPACE BETWEEN CONCRETE COVER AND RISER PIPE SHALL BE SEALED VIA LINK SEAL.
7. PROVIDE A 2" PENETRATION WITH A STAINLESS STEEL FEMALE-THREADED HALF-COUPLING AT THE TOP. PENETRATION SHALL BE CAPPED AT THE TOP WITH AN OPEN-ENDED BOTTOM.
8. INTERIOR SURFACES OF THE PUMP IMPELLER AND VOLUTE SHALL BE COATED WITH BELZONA 1321 CERAMICS-METAL. (UNLESS OTHERWISE SPECIFIED BY OWNER). DO NOT COAT STAINLESS STEEL.
9. PLUG VALVES SHALL HAVE AN ALLOWABLE FLOW CAPACITY EQUAL TO 100% OF THE ADJACENT PIPE AREA, AND SHALL ALLOW "PIGGING".
10. THE INTERIOR OF ALL VALVES SHALL BE COATED.
11. CONTRACTOR SHALL PROVIDE (2) 1" CONDUITS (ONE FOR POWER AND ONE FOR SIGNAL) FOR FLOW METER (IF REQUIRED). CONTRACTOR SHALL TERMINATE WIRES IN OWNER PROVIDED ELECTRICAL CONTROL CABINET.
12. LOW LEVEL ALARM ELEVATION TO BE SET 1' BELOW PLMPS OFF ELEVATION.
13. CONNECTION OF SWAY BRACE MOUNTING PLATE SHALL BE PER ECQA SPECIFICATIONS.
14. ELECTRICAL CONDUIT SHALL BE RIGID ALUMINUM CONDUIT, OR PVC ENCASED IN CONCRETE.
15. PROVIDE **MINIMUM** OF THREE (3) 316 STAINLESS STEEL BRACES, EVENLY SPACED. ADD ADDITIONAL BRACES IF BRACE SPACING EXCEEDS 10'.
16. CONTRACTOR SHALL PROVIDE DESIGN PERFORMED BY FLORIDA LICENSED P.E. AND SHALL INCLUDE DESIGN IN DELEGATED ENGINEERING DOCUMENTS.
17. FLOAT HATCH SHALL BE 18"X, 8" UNLESS OTHERWISE SPECIFIED.

SIGNATURE & SEAL



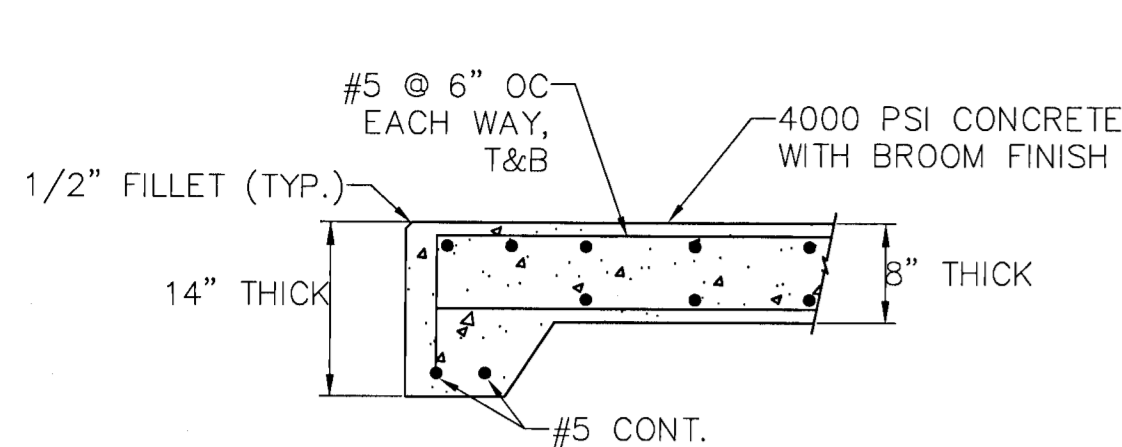
THIS SHEET CREATED BASED ON ECUA DESIGN STANDARD DRAWING DS-3

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.

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TURTLE CREEK

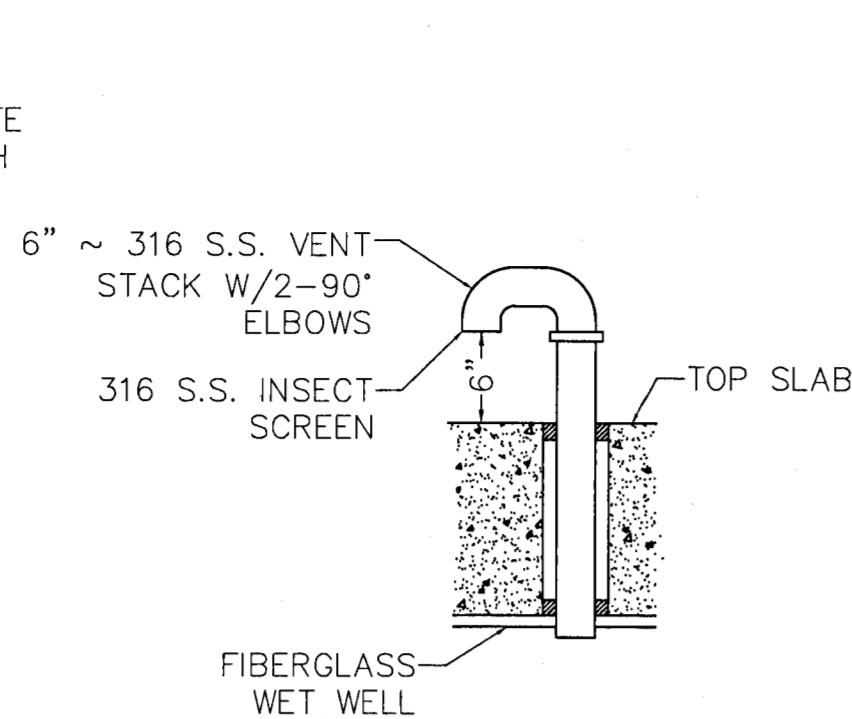
LIFTSTATION DETAILS - DS-4



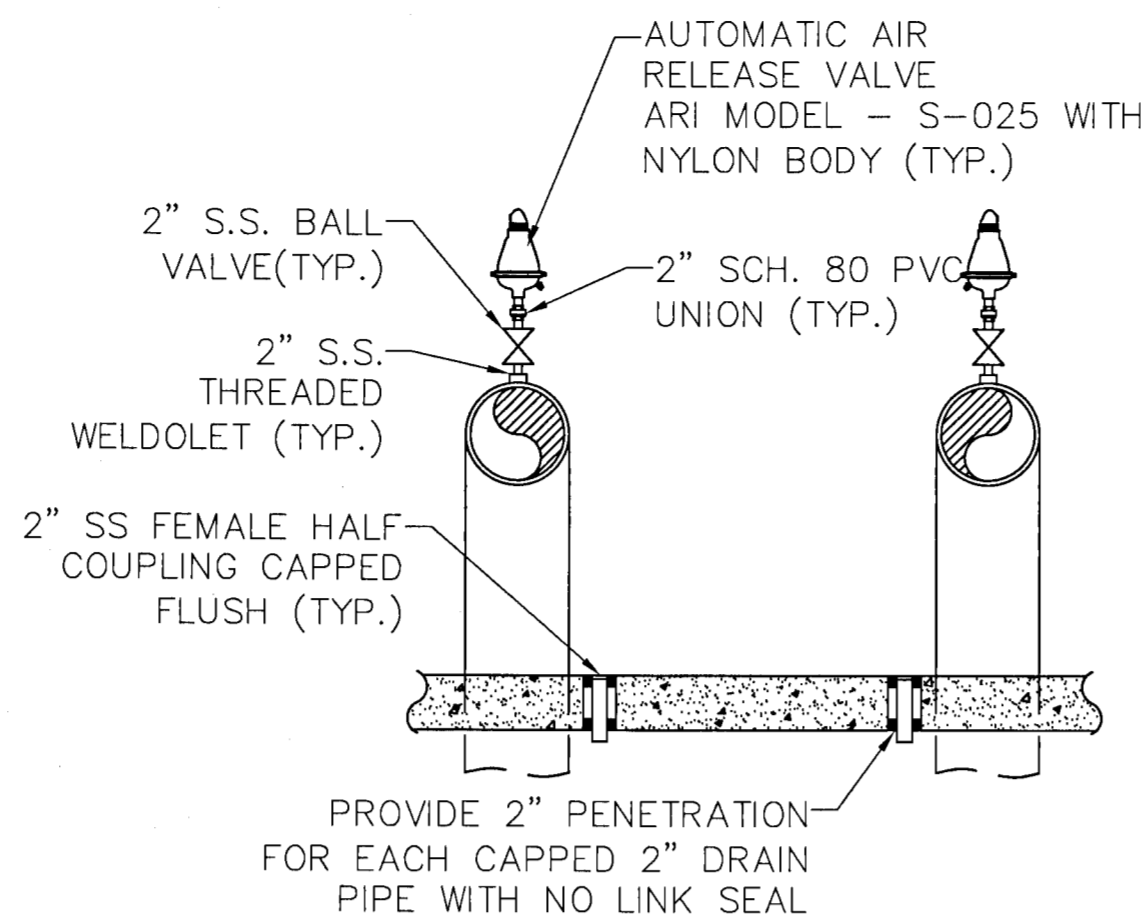
NOTES

- PAD DIMENSIONS PER PLANS.
- PROVIDE EXPANSION JOINTS AND CRACK RELIEF JOINTS PER ACI STANDARDS.

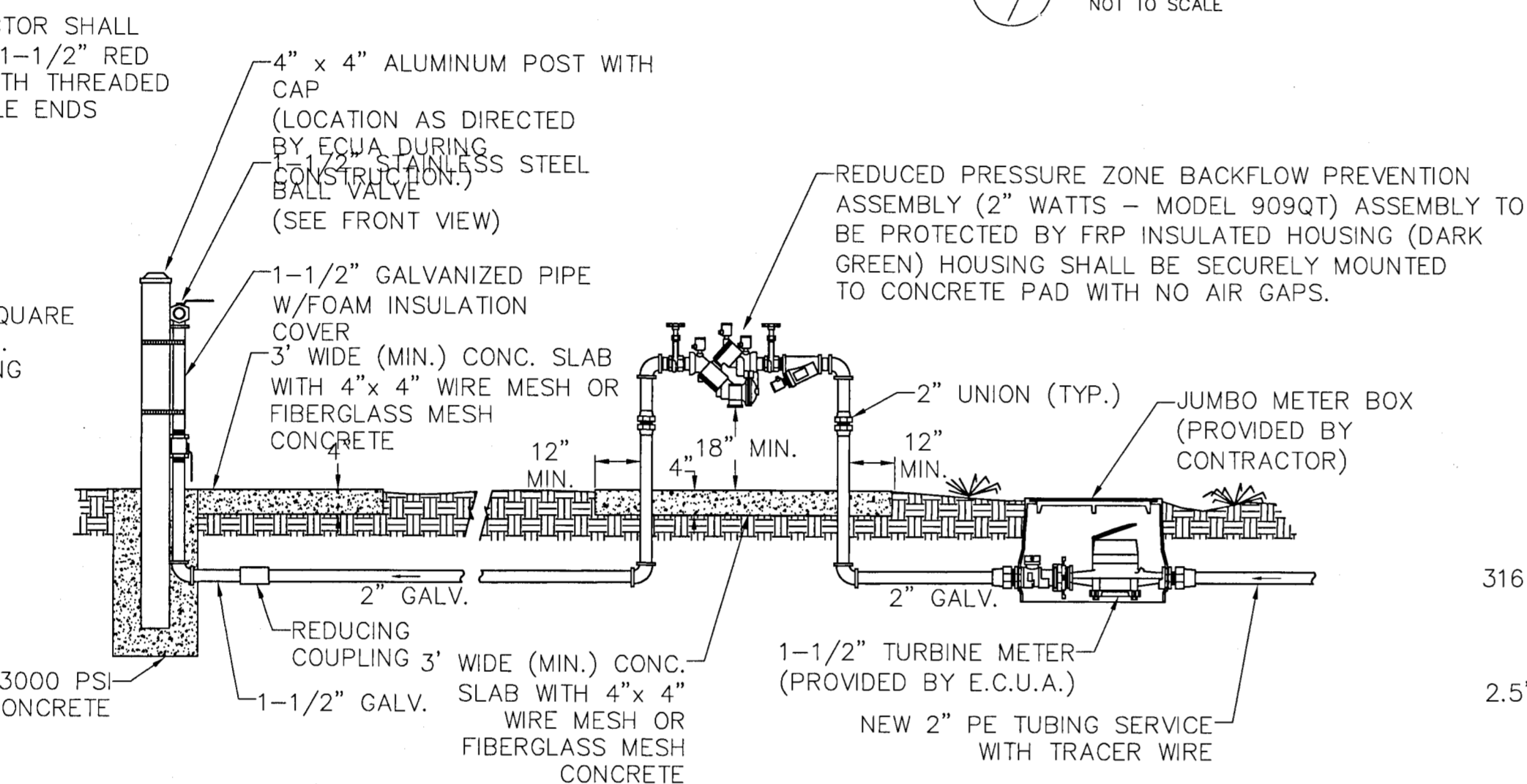
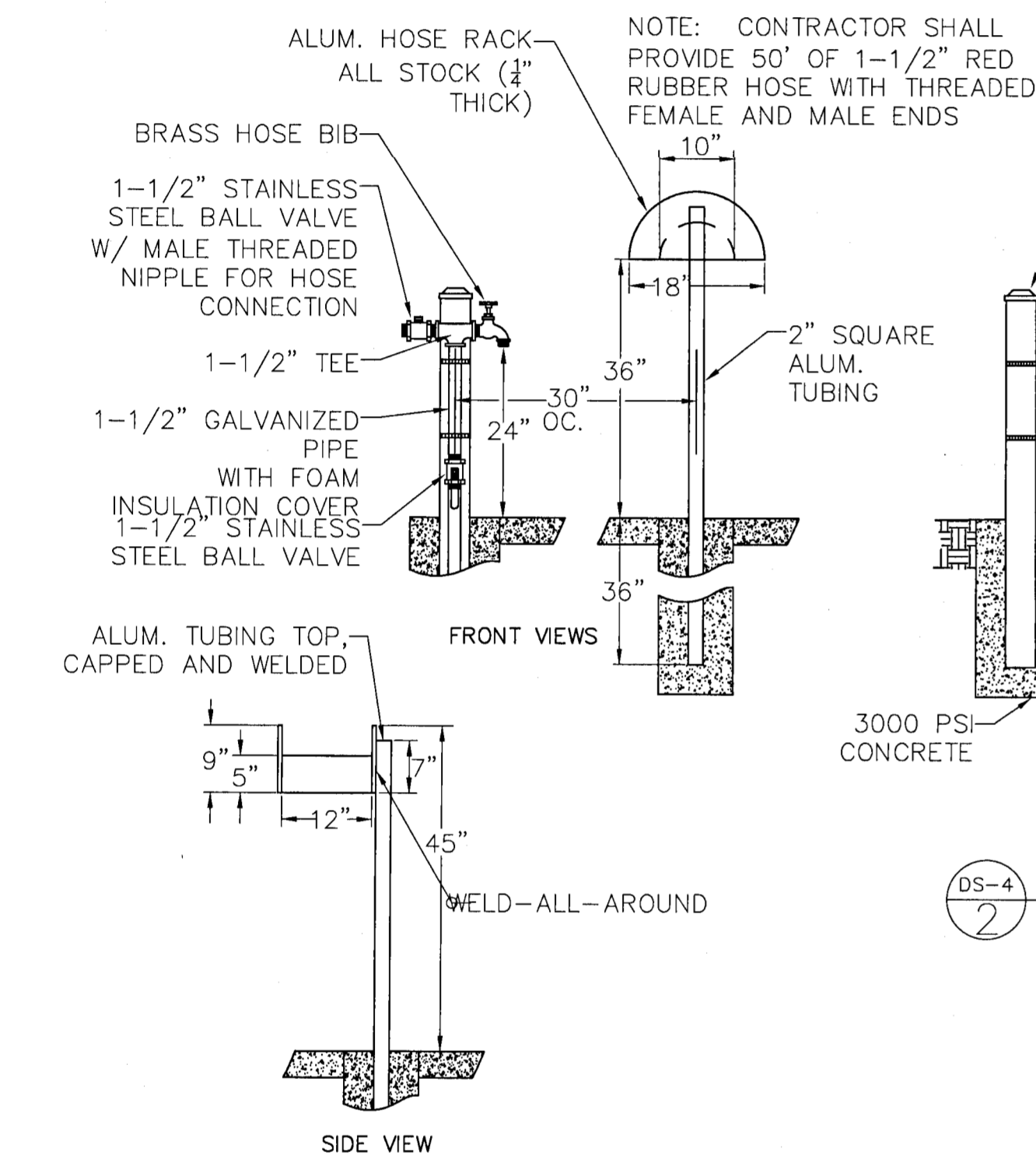
DS-4
1
GENERATOR PAD DETAIL
NOT TO SCALE



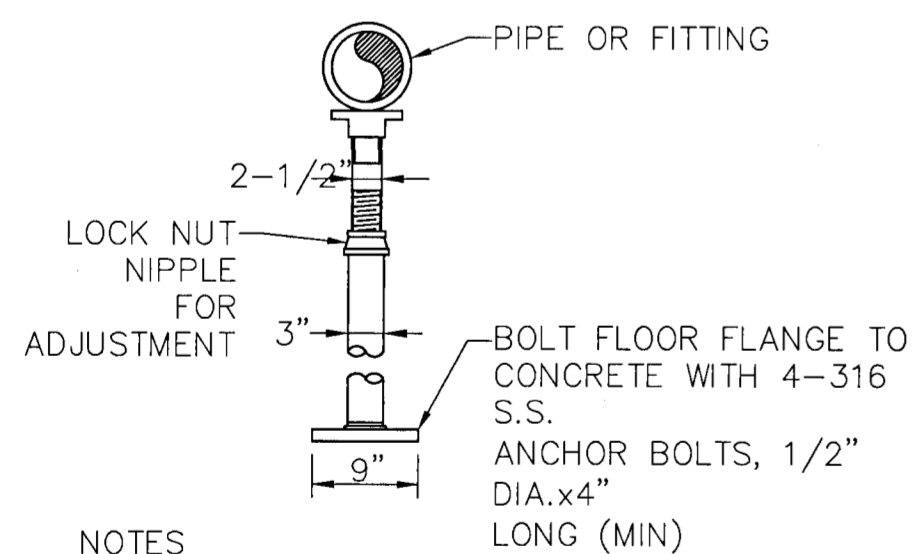
DS-4
6
J-VENT DETAIL
NOT TO SCALE



DS-4
7
ARV EXHAUST DETAIL
NOT TO SCALE



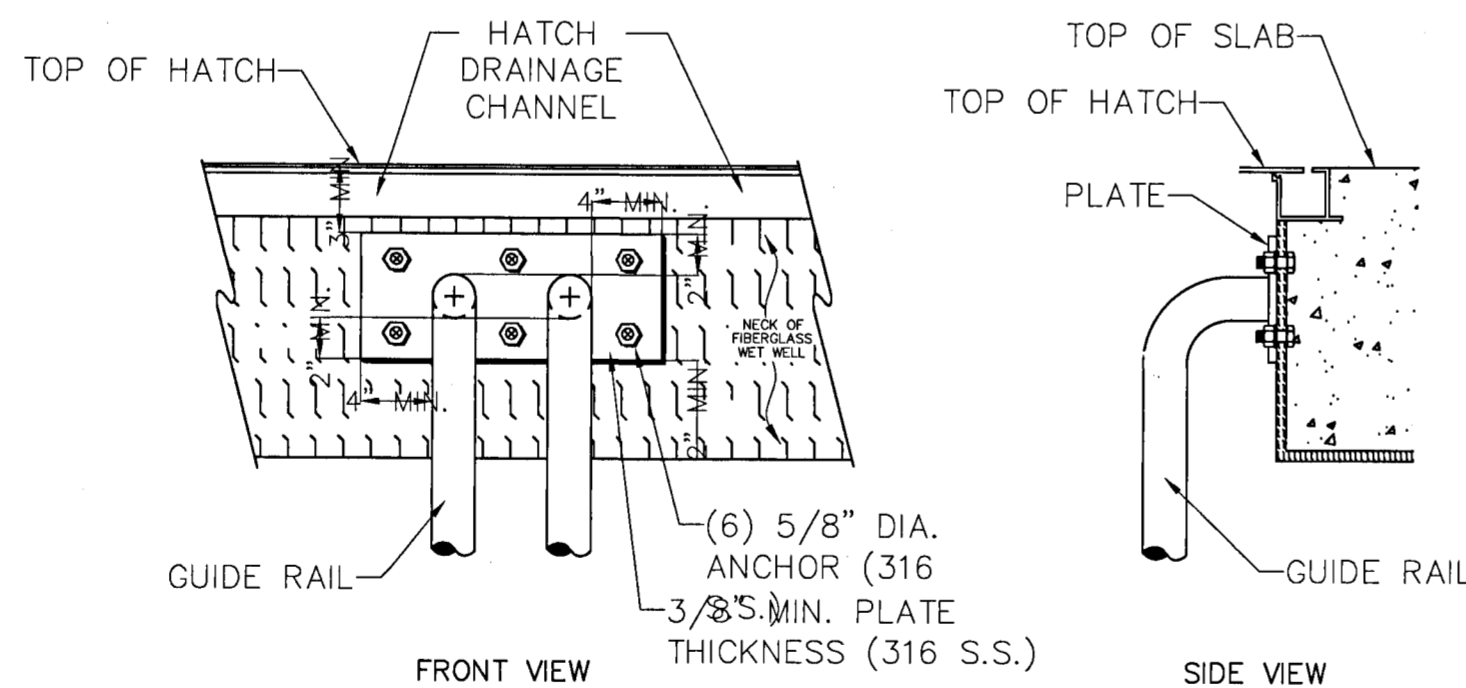
DS-4
2
WASHDOWN STATION AND METER DETAIL
NOT TO SCALE



NOTES

- ADJUSTABLE PIPE SUPPORT "ANVIL" FIGURE 265" OR EQUAL
- ALL SUPPORT MATERIALS SHALL BE 316 S.S.
- THE COMPONENTS OF THE VALVE SUPPORT SHALL BE ENLARGED AS APPROVED BY ECUA.
- FIT A PIPE STAND FOR EACH DISCHARGE PIPE; WET WELLS WITH A FLOW METER SHALL ALSO HAVE A PIPE STAND ON EACH SIDE OF THE FLOW METER.

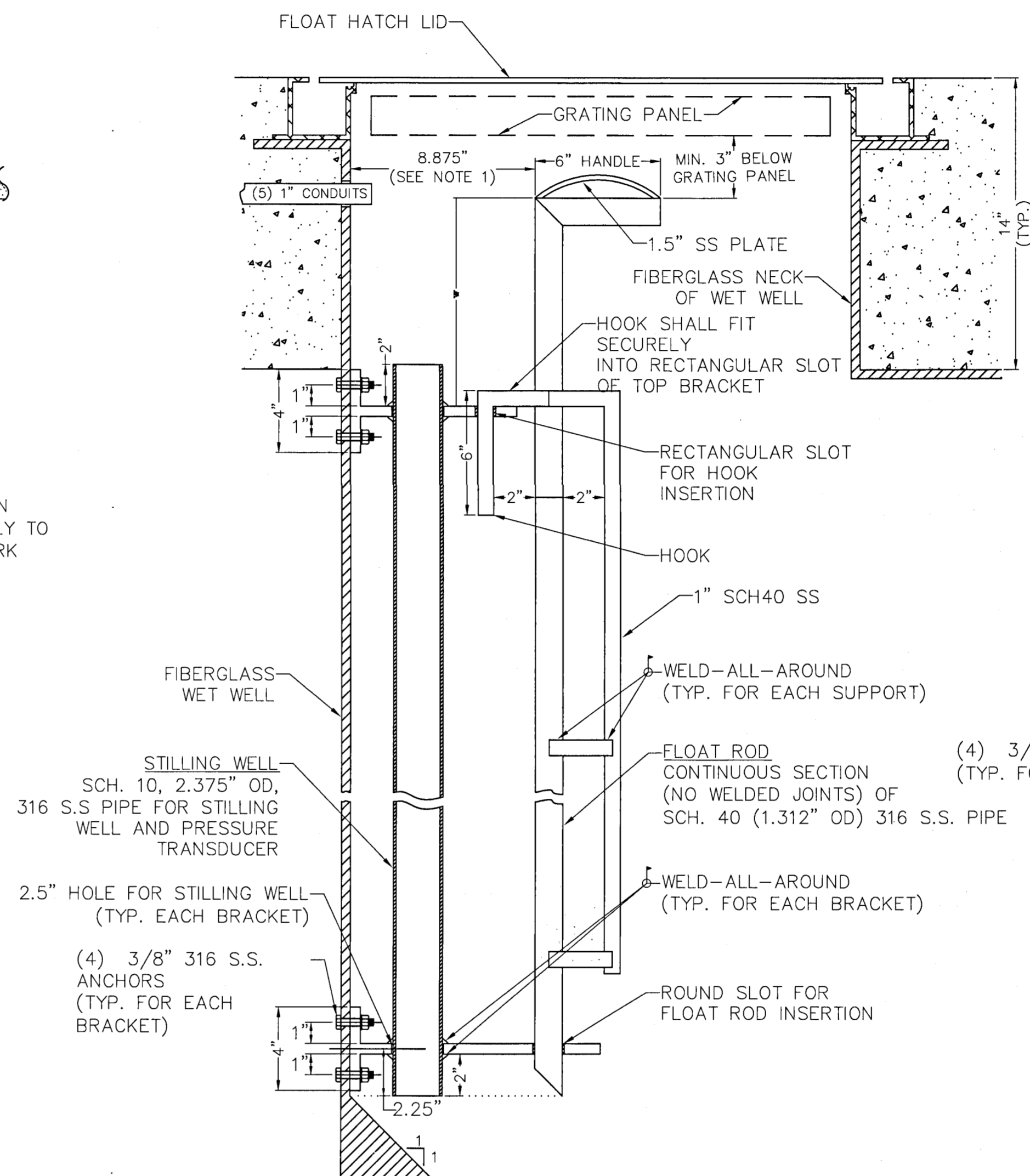
DS-4
3
ADJUSTABLE PIPE STAND DETAIL
NOT TO SCALE



NOTES

- REQUIRE SUBMITTAL FOR "STYLE" OF RAIL ATTACHMENT.
- GUIDE RAILS TO BE 2" MIN. 316 S.S. WELDED OR BOLTED TO PLATE IN A MANNER ACCEPTABLE TO ECUA.

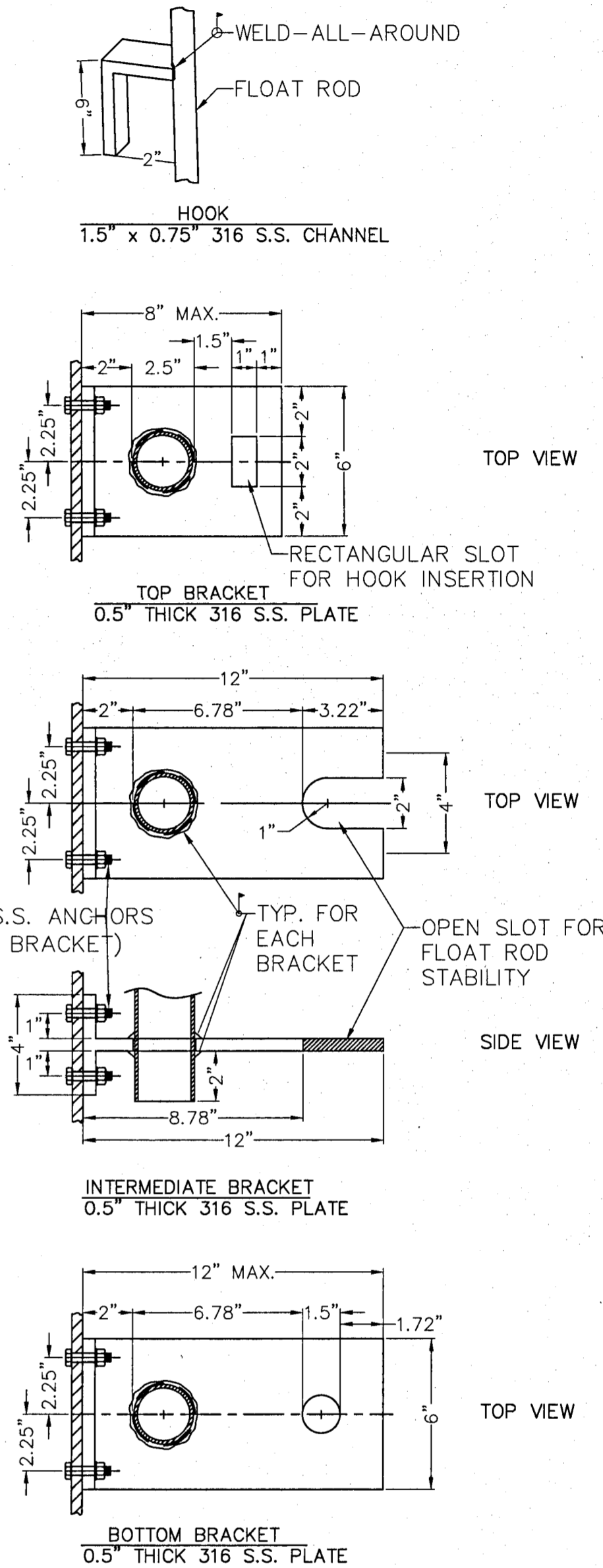
DS-4
4
GUIDE RAIL DETAIL
NOT TO SCALE



NOTES

- THE BRACKET DIMENSIONS PROVIDED WITH THIS DETAIL REQUIRE THE FIBERGLASS NECK (FOR HATCH) AND FLOAT ROD PLACEMENT TO BE POSITIONED PER THE DIMENSIONS SHOWN. SHOULD THE CONTRACTOR ALTER THE FIBERGLASS NECK AND FLOAT ROD PLACEMENT DIMENSIONS FROM WHAT IS SHOWN IN THIS DETAIL, THEN CONTRACTOR SHALL SUPPLY NEW BRACKET DRAWINGS WITH NEW DIMENSIONS AS PART OF SHOP DRAWING SUBMITTAL.
- SPACING BETWEEN BRACKETS SHALL NOT BE MORE THAN 10 FEET.

DS-4
5
MOUNTING BRACKETS FOR STILLING WELL AND FLOAT ROD
NOT TO SCALE



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TURTLE CREEK
LIFTSTATION DETAILS - DS-5

NUMBER	REVISION	DATE
1	FOOT DRAINAGE COMMENT REVISIONS	12/14/09
2	EQUA COMMENT REVISIONS	2/26/21
3	ESCAMBIA COUNTY COMMENT REVISIONS	3/9/21

DRAWN BY:
A. BURKETT

DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL

DAVID W. FITZPATRICK
LICENSED
No. 37318
STATE OF FLORIDA
Professional Engineer
DATE

PROJECT
NUMBER 18-039

PLOT DATE 3/31/21

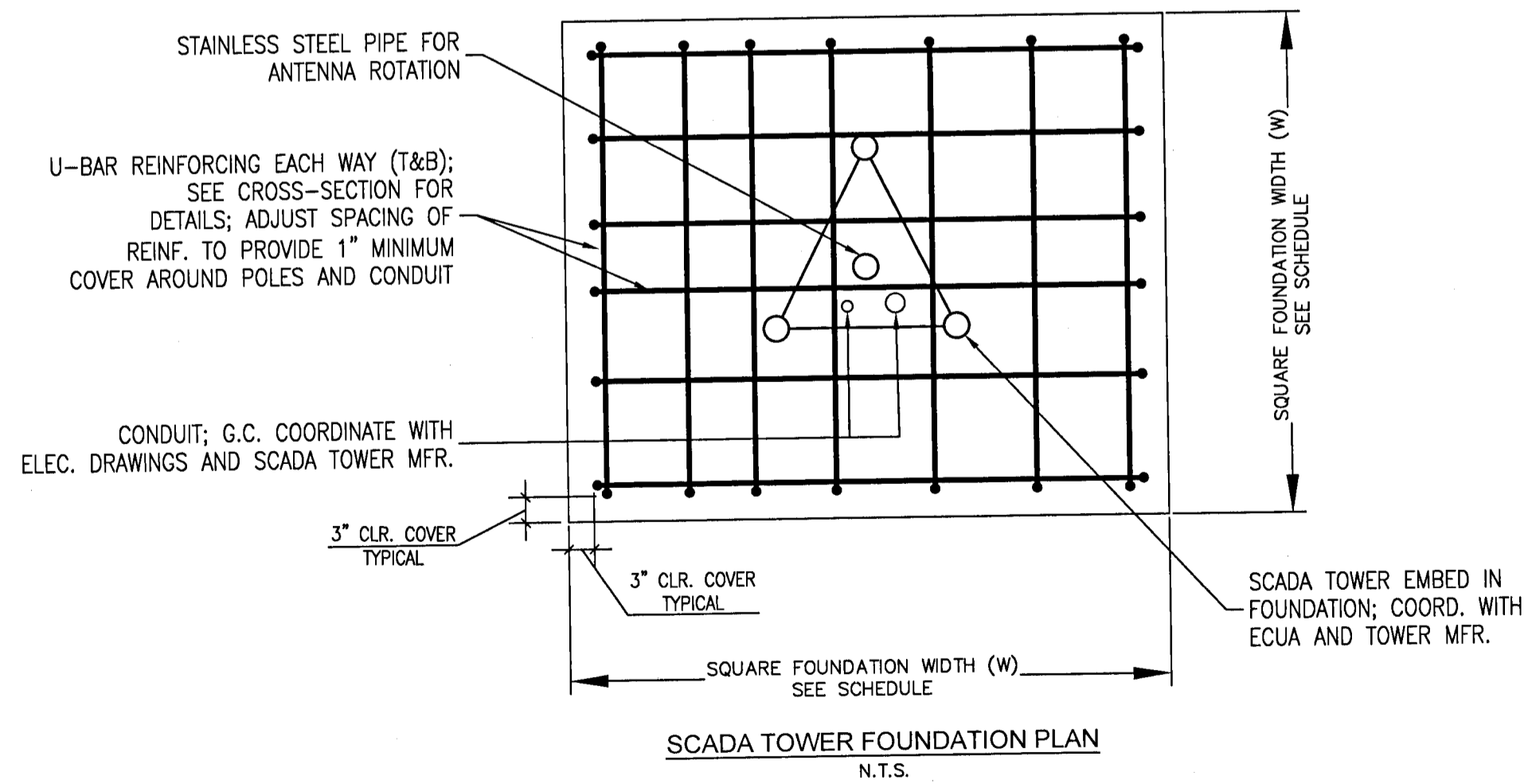
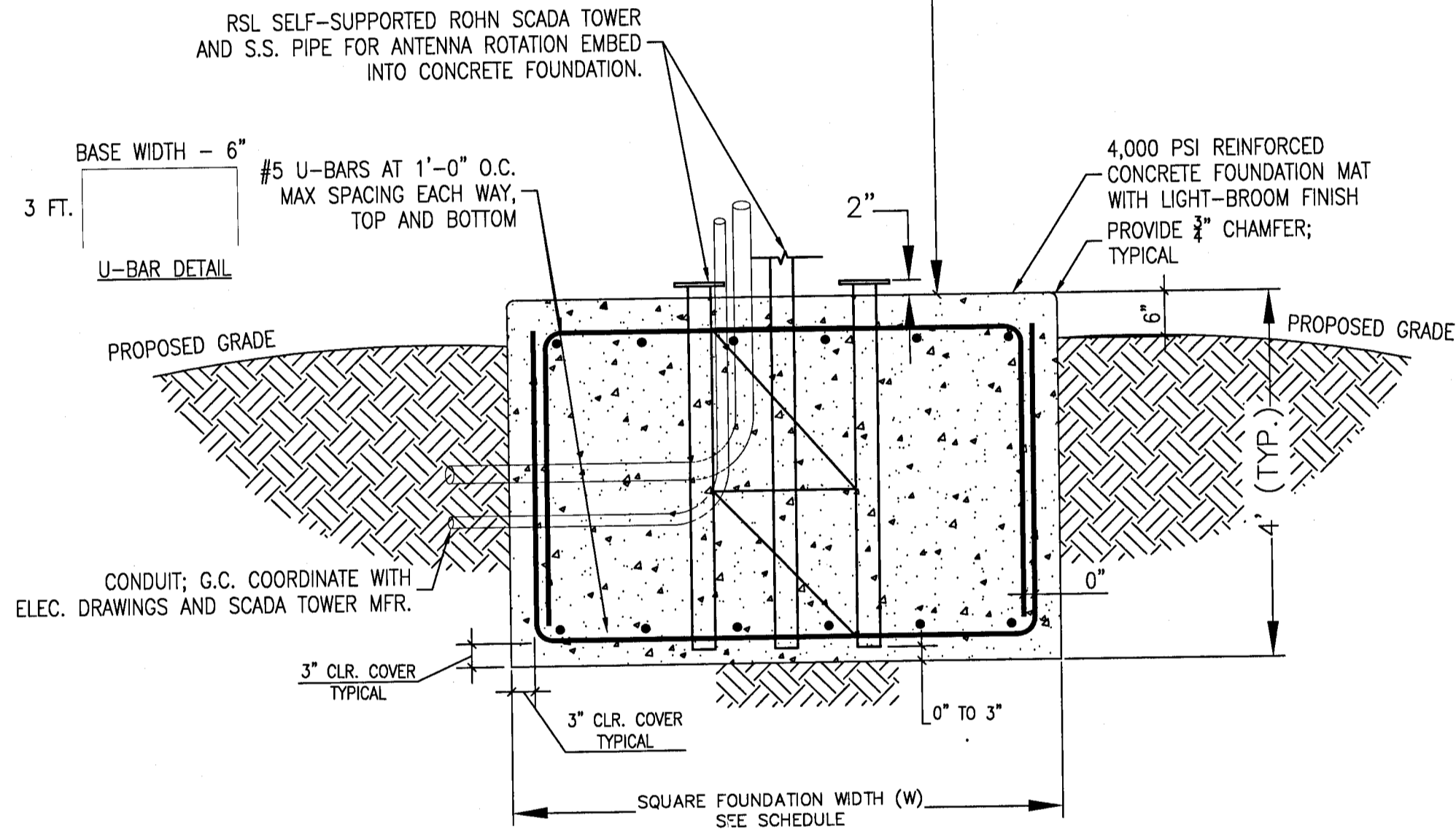
C31 - C40

SCADA TOWER FOUNDATION SCHEDULE	
MAX ANTENNA HEIGHT ABOVE GRADE	SQUARE FOUNDATION PLAN DIMENSION (W) x (W)
22'	5'-3" x 5'-3"
32'	6'-6" x 6'-6"
42'	8'-6" x 8'-6"
52'	11'-6" x 11'-6"

APPLICABLE OVER ENTIRE ESCAMBIA COUNTY

SCADA FOUNDATION DETAIL DESIGN ASSUMPTIONS:

- TOWER: RSL ROHN TOWER WITH TESSCO: #37634 ANTENNA
- FOUNDATION DESIGN IS BASED ON LOOSE SANDY SOILS TYPICAL OF ESCAMBIA COUNTY
- ASCE 7-10/FBC 2010 WIND DATA: 164 MPH, EXPOSURE D



DS-6
1
NOT TO SCALE

65'
ANTENNA HEIGHT
(SEE NOTE 1)

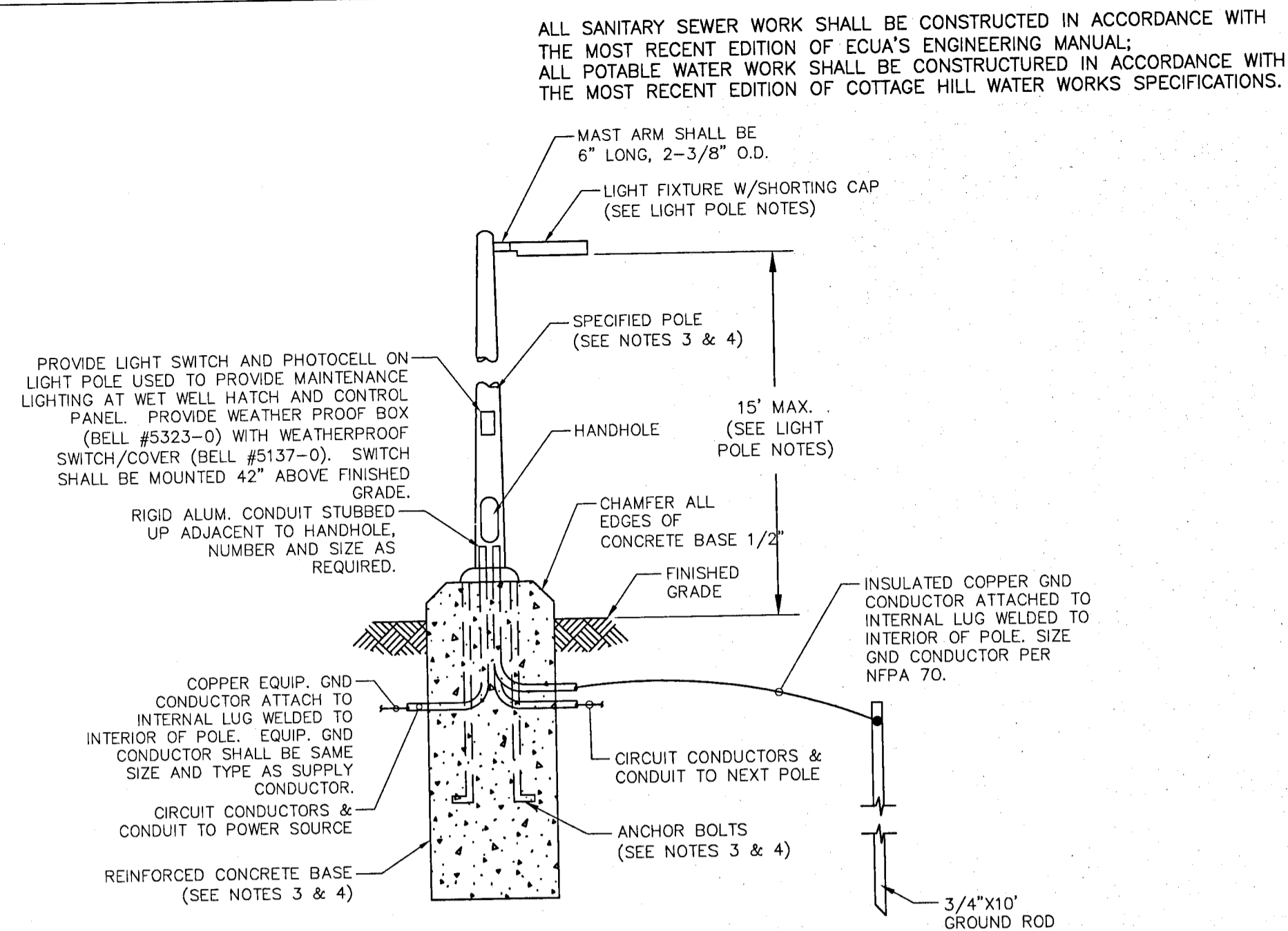
REINFORCED
CONCRETE TOWER
(SEE NOTES 3 & 4)

REINFORCED
CONCRETE BASE
(SEE NOTES 3 & 4)

DS-6
2
NOT TO SCALE

NOTES:

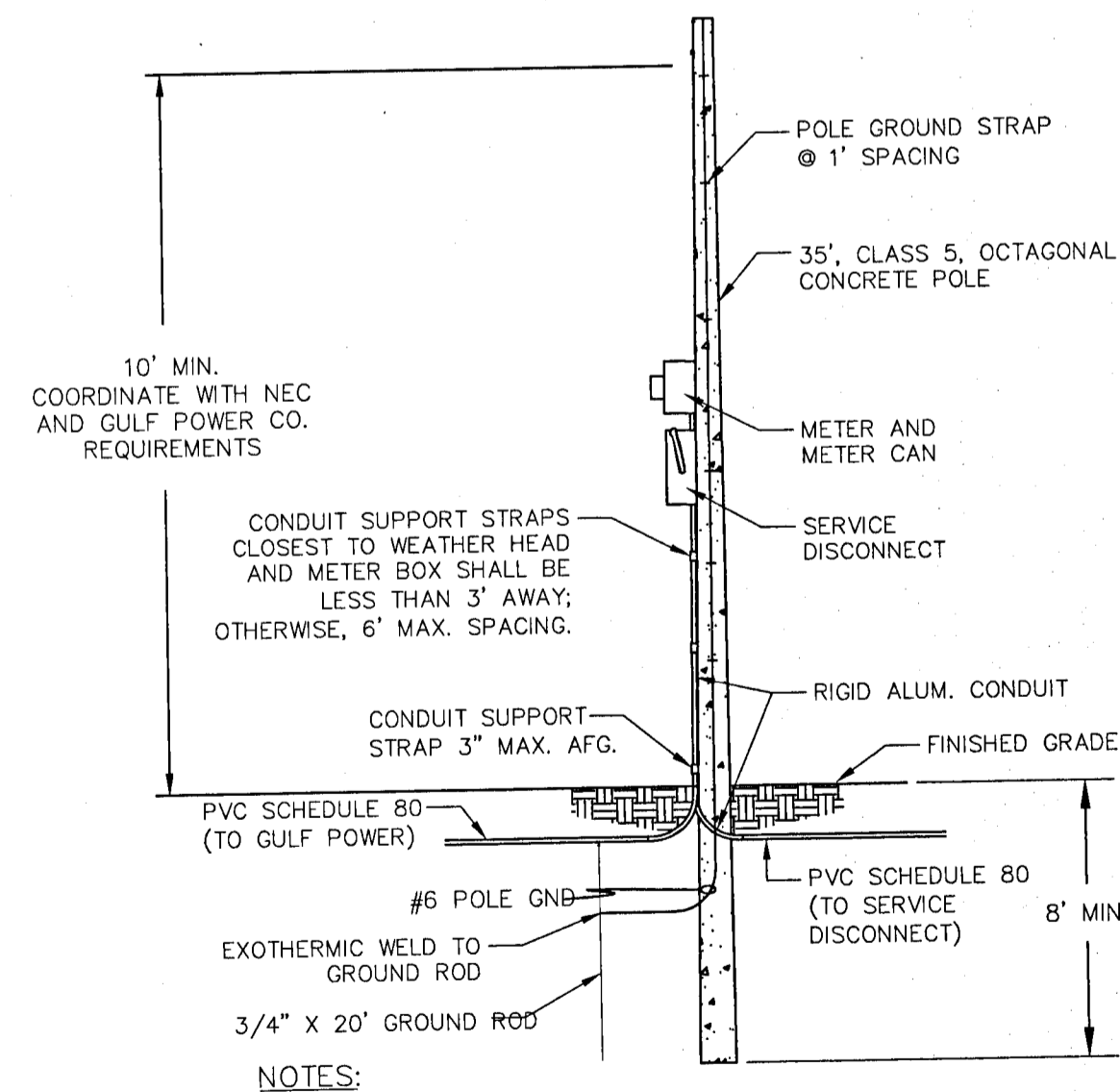
- ANTENNA HEIGHT PER ECUA SUPPLIED RADIO PATH STUDY.
- CONTRACTOR CAN SELECT FROM EITHER ANTENNA TOWER OPTION. ROHN TOWER/BASE SHALL BE CONSTRUCTED PER DETAIL THIS SHEET, CONCRETE TOWER/BASE SHALL BE CONSTRUCTED PER DELEGATED ENGINEERING DOCUMENTS.
- CONTRACTOR SHALL PROVIDE DESIGN PERFORMED BY FLORIDA LICENSED P.E. AND SHALL INCLUDE DESIGN IN DELEGATED ENGINEERING DOCUMENT.
- FOR WIND LOAD CALCULATIONS, ASSUME WIND SPEED OF 164 MPH, EXPOSURE "D" PER ASCE 7-10/FBC 2010 WIND DATA, AS WELL AS LOOSE, SANDY SOILS.



DS-6
3
NOT TO SCALE

LIGHT POLE NOTES:

- FIXTURE SHALL BE LED, (BEACON, VIPER "L" SERIES), (HOLOPHONE, MONGOOSE LED ROADWAY LIGHTING) 120V, WITH PHOTOCONTROL & SWITCH, POLE MOUNTED @ 42" (OR ENGINEER APPROVED EQUAL)
- REFER TO SPECIFICATIONS SECTION 16521 "EXTERIOR LIGHTING" FOR ADDITIONAL REQUIREMENTS.
- LIGHT FIXTURES SHALL BE MOUNTED AT 15'-0" (MAXIMUM) ABOVE FINISHED GRADE.
- LIGHTING FIXTURE LAYOUT SHALL BE BASED UPON ACHIEVING 20 FOOT CANDLES (+/- 20%) AT THE FRONT OF THE CONTROL PANEL (WORK-PLANE OF 24" AFG) AND AT THE WET WELL ACCESS HATCH (WORKPLANE OF 0" AFG).
- GENERAL SECURITY LIGHTING SHALL ENCOMPASS ACCESS GATE AND ALL PIPING/EQUIPMENT AT A MIN: AVERAGE 1 FOOT-CANDLE (+/- 20%, AT WORKPLANE OF 0" AFG).
- REFER TO LIGHTING CONTROL DIAGRAM ON SHEET DS-7 FOR ADDITIONAL REQUIREMENTS.



NOTES:
* SERVICE LATERAL CONDUIT SHALL BE 3" (MIN) SCHEDULE 80 PVC BELOW GRADE AND 3" (MIN) RIGID AL CONDUIT ABOVE GRADE. ANY REQUIREMENTS BY THE UTILITY COMPANY SHALL PREVAIL OVER THE REQUIREMENTS OUTLINED HERE AND SHALL BE COORDINATED BY THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

DS-6
4
NOT TO SCALE

THIS SHEET CREATED BASED ON ECUA DESIGN STANDARD DRAWING DS-6

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TURTLE CREEK

LIFTSTATION DETAILS - DS-5

DATE	REVISION	DESCRIPTION
12/1/20	1	ECUA COMMENT REVISION
2/28/21	2	ECUA COMMENT REVISION
3/1/21	3	ESCAMBIA COUNTY COMMENT REVISION

DRAWN BY: A. BURKETT	SIGNATURE & SEAL DAVID W. FITZPATRICK P.E. FLORIDA LICENSED PROFESSIONAL ENGINEER #00008423
DESIGNED BY: D. FITZPATRICK	
PROJECT NUMBER 18-039	
PLOT DATE 3/31/21	
SHEET C32 OF C40	

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
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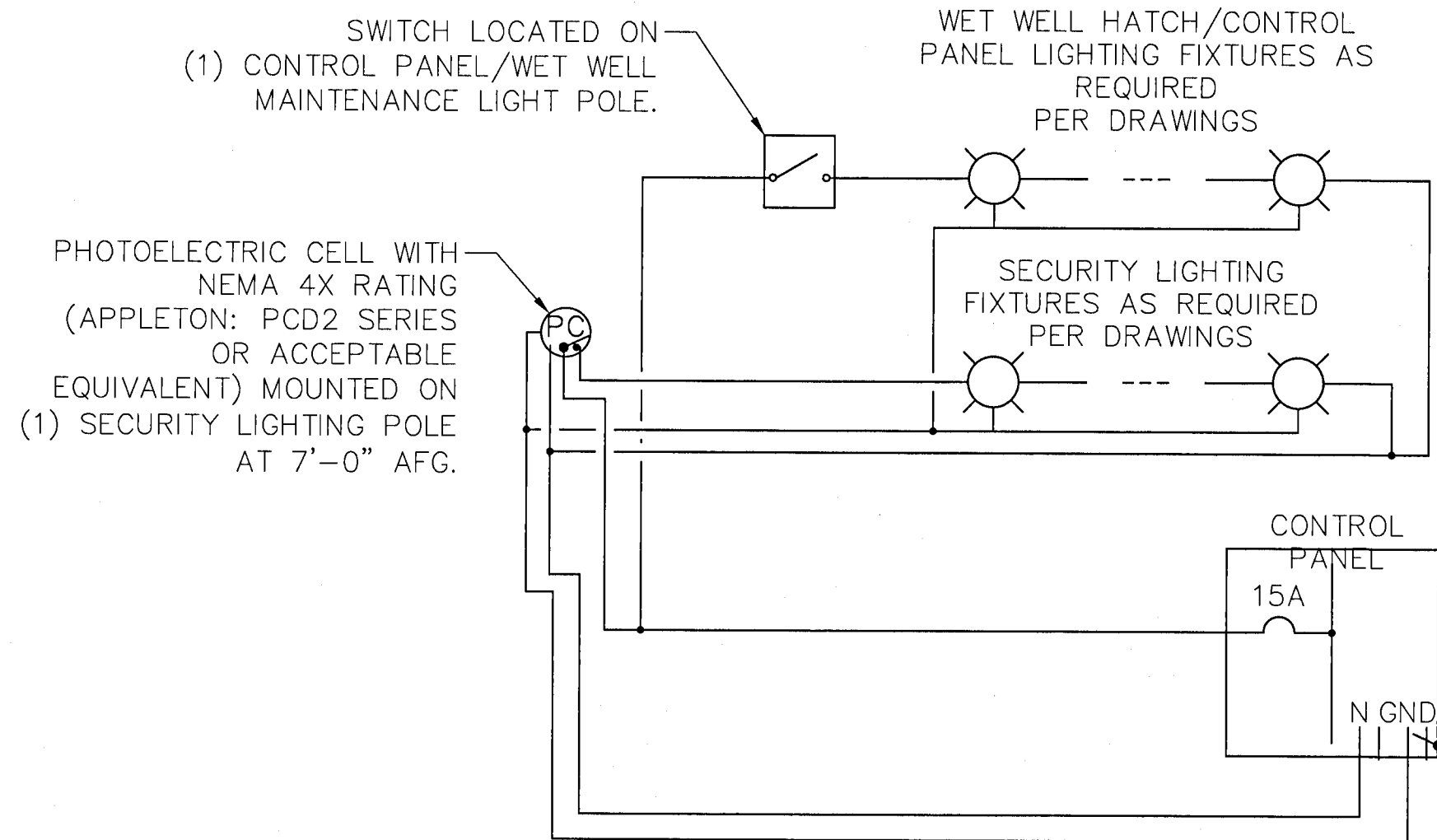
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TURTLE CREEK

LIFTSTATION DETAILS - DS-7

DATE	12/20/20
REVISION	1
FOOT BRIDGE COMMENT REVISIONS	
ECUA COMMENT REVISIONS	
FLORIDA COUNTY COMMENT REVISIONS	
NUMBER	2
1	
2	
3	

DRAWN BY:	A. BURKETT
DESIGNED BY:	D. FITZPATRICK
SIGNATURE & SEAL	
DAVID W. FITZPATRICK	
PROFESSIONAL ENGINEER	
FLORIDA	
DATE	3/31/21
PROJECT NUMBER	18-039
PLOT DATE	3/31/21
SHEET	C33 OF C40

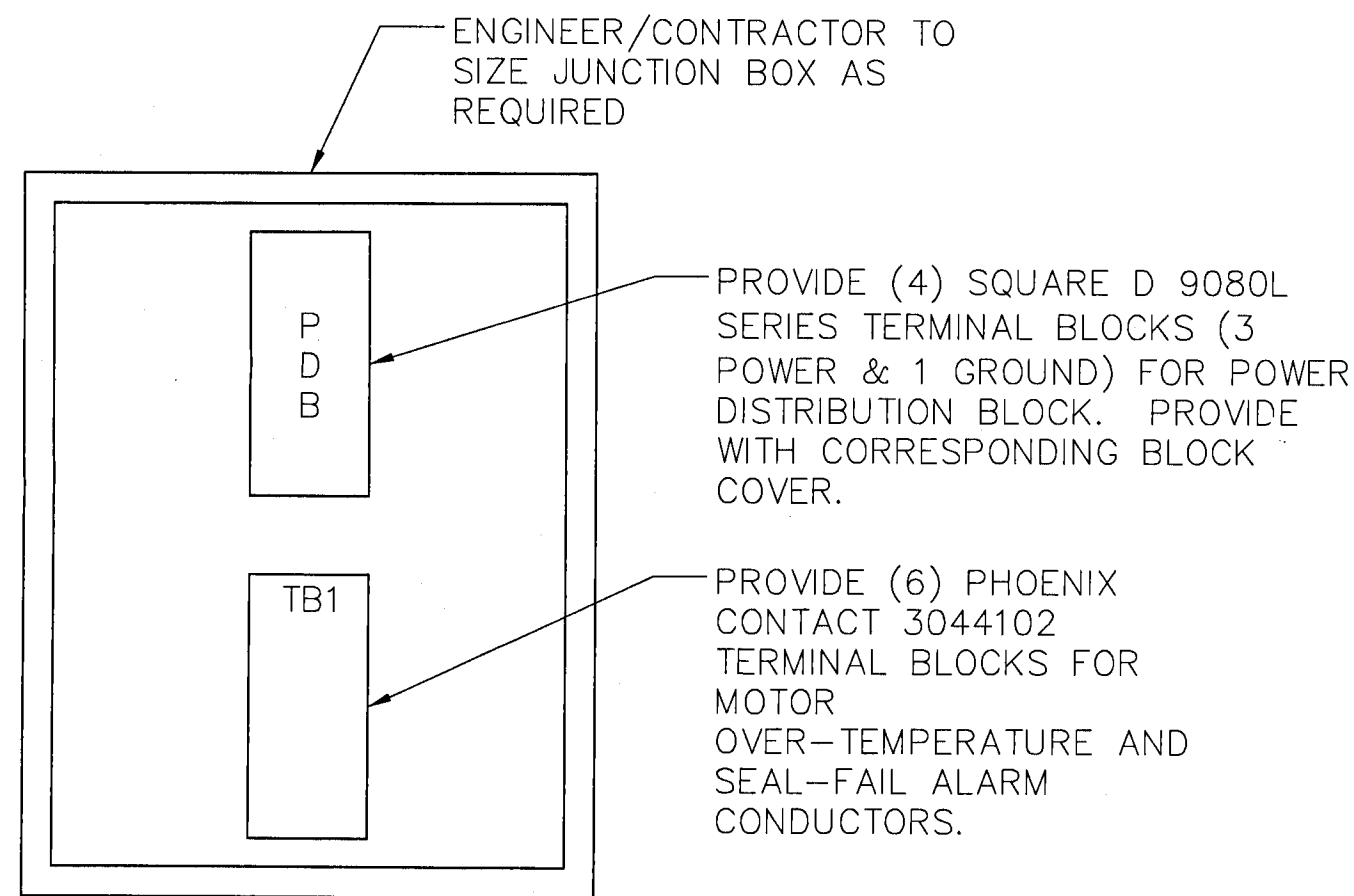


DS-7
1
TYPICAL LIGHTING
CONTROL DIAGRAM
NOT TO SCALE

DETAIL NOTES:

1. ALL TERMINAL BLOCKS SHALL BE PROVIDED WITH CORRESPONDING END BRACKETS AND END COVERS.
2. PROVIDE SEPARATE GROUND LUG IN EACH JUNCTION BOX, BONDED TO JUNCTION BOX.

DS-7
2
TYPICAL PUMP
JUNCTION BOX ELEVATION
NOT TO SCALE

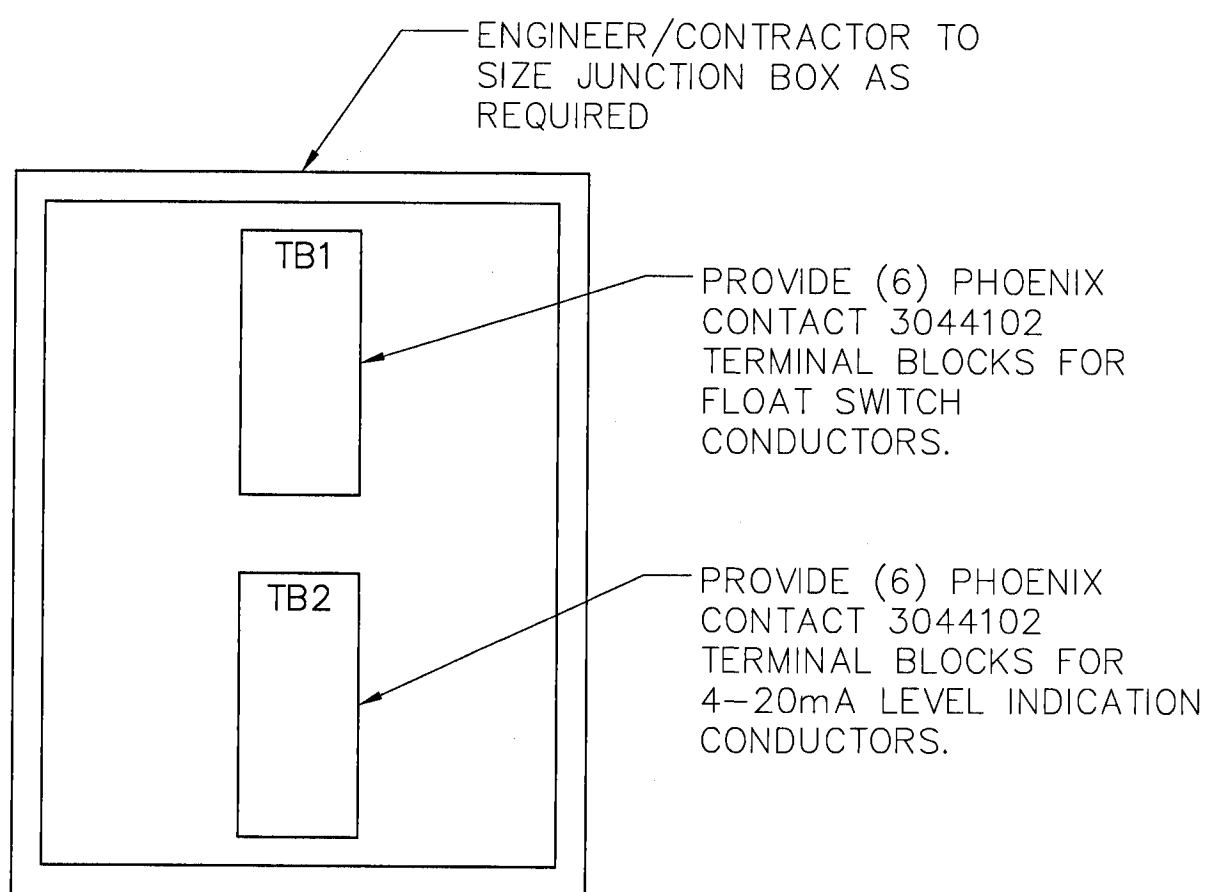


INTERIOR ELEVATION

DETAIL NOTES:

1. ALL TERMINAL BLOCKS SHALL BE PROVIDED WITH CORRESPONDING END BRACKETS AND END COVERS.
2. PROVIDE SEPARATE GROUND LUG IN EACH JUNCTION BOX, BONDED TO JUNCTION BOX.

DS-7
3
TYPICAL LEVEL INDICATION
JUNCTION BOX ELEVATION
NOT TO SCALE



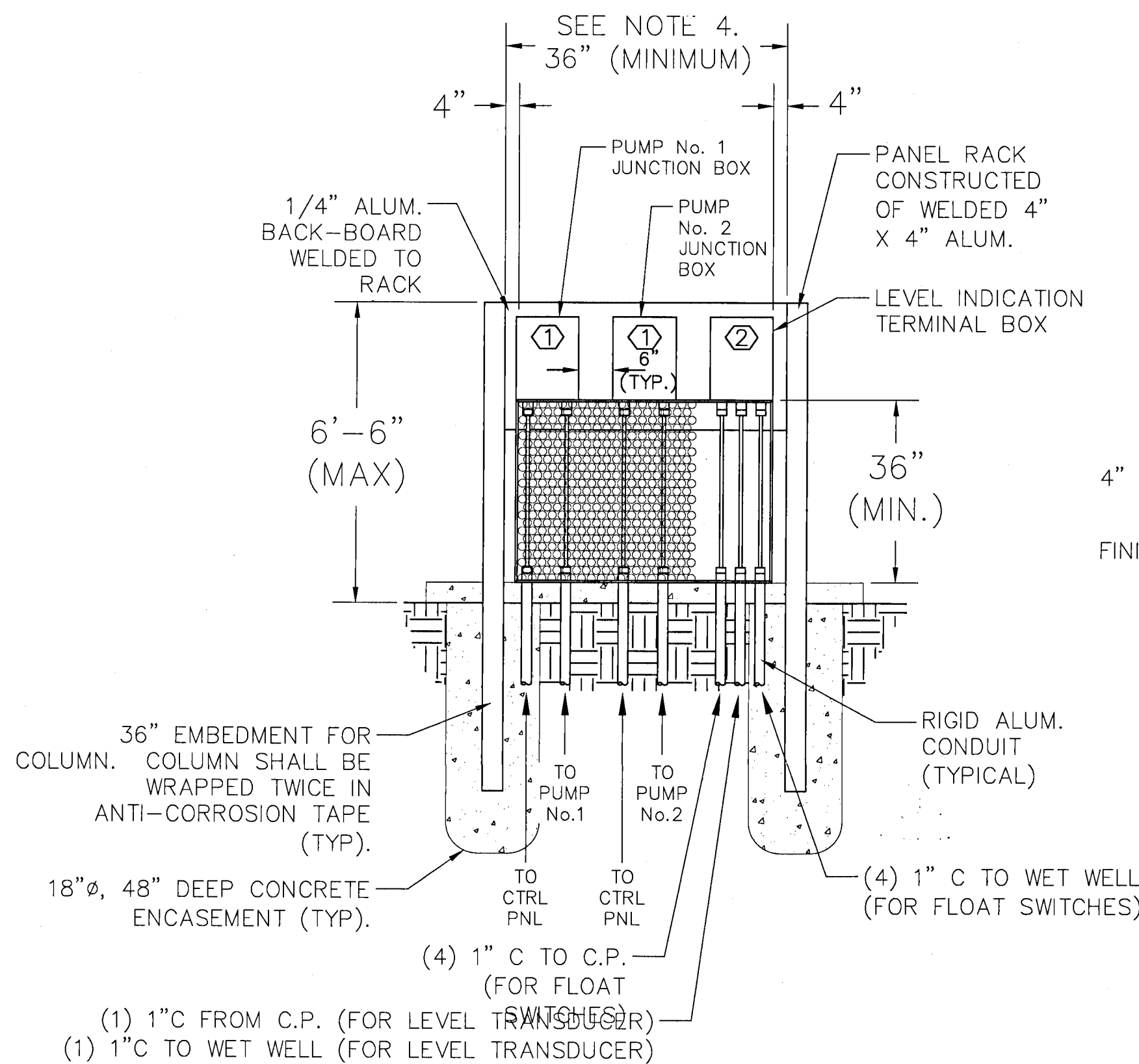
INTERIOR ELEVATION

DETAIL NOTES:

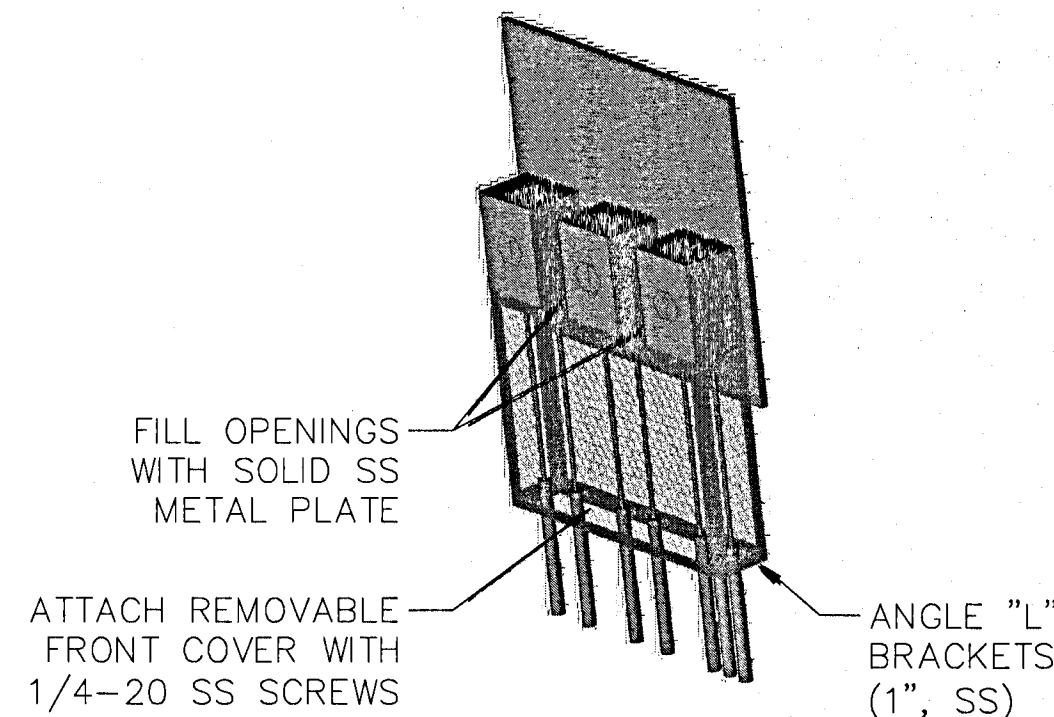
1. THIS DETAIL SHALL ONLY APPLY WHEN THE CONTROL PANEL CANNOT BE PLACED WITHIN 10'-0" OF THE WET WELL TO ALLOW FOR CONNECTION OF STANDARD 50 FOOT PUMP CABLE CONNECTIONS.
2. BACKBOARD SHALL BE PLACED AT THE EDGE OF THE WET WELL SLAB BETWEEN THE WET WELL AND CONTROL PANEL.
3. JUNCTION BOXES SHALL BE MOUNTED SUCH THAT THEY ARE FACING THE WET WELL.
4. ENGINEER/CONTRACTOR SHALL SIZE JUNCTION BOXES AND BACKBOARDS BASED UPON INSTALLATION REQUIREMENTS PROVIDED AT TIME OF DESIGN.

KEY NOTES:

- ① REFER TO "TYPICAL PUMP JUNCTION BOX ELEVATION" (THIS SHEET) FOR ADDITIONAL REQUIREMENTS.
- ② REFER TO "TYPICAL LEVEL INDICATION JUNCTION BOX ELEVATION" (THIS SHEET) FOR ADDITIONAL REQUIREMENTS.



FRONT ELEVATION



SIDE ELEVATION

DS-7
4
TYPICAL PUMP JUNCTION BOXES
NOT TO SCALE

ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL;
ALL POTABLE WATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF COTTAGE HILL WATER WORKS SPECIFICATIONS.



EOR's Summary of Performance and Design Criteria for Contractor's Delegated Engineering Documents

This sheet acts as a summary only. Contractor is required to thoroughly examine the remainder of these plans as well as ECUA's Engineering Manual for all performance and design criteria, which as a whole, is considered sufficient for Contractor's use in bidding and coordinating professional design sevicees for the development of Contractor's Delegated Engineering Documents.

Delegated Engineering Design	EOR Supplied Design Criteria	Applicable Design Standards
Fiberglass Wet Well	Diameter (feet): 10 Depth (feet): 17.75	Plans, ECUA Engineering Manual, ASTM D3753, Fiberglass Manufacturer's Recomendations
Pump Mounting Baseplate	See Wet Well dimensions above and List of Allowable Pumps on Pump Selection Worksheet	Plans and ECUA Engineering Manual
Anti-flotation Concrete Base	See Wet Well dimensions above	Plans and ECUA Engineering Manual
Concrete Cover	See Site Plan for cover dimensions	Plans and ECUA Engineering Manual
Control Panel Base	See Control Panel information above and Site Plan for location	Plans and ECUA Engineering Manual
Electrical Control Panels	Panel Layout: <input type="checkbox"/> Abutting <input checked="" type="checkbox"/> Linear Service Voltage: <input type="checkbox"/> 480V <input checked="" type="checkbox"/> 240V Starter Type: <input type="checkbox"/> FVNR <input type="checkbox"/> RVSS <input checked="" type="checkbox"/> VFD	Plans, ECUA Engineering Manual, and ECUA Design Standard Drawings DS-xx through DS-xx
Work/Security Light Poles and Bases	See Plans	Plans and ECUA Engineering Manual
Concrete Pole and Base for SCADA Antenna (if applicable)	Antenna Height (feet): 65'	Plans and ECUA Engineering Manual

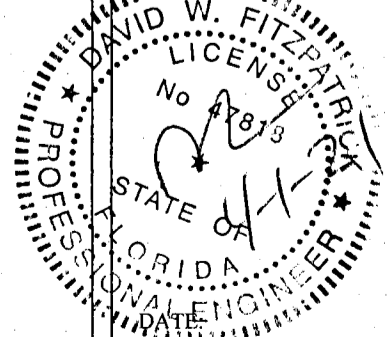
DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
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TURTLE CREEK
LIFTSTATION DETAILS - DS-8

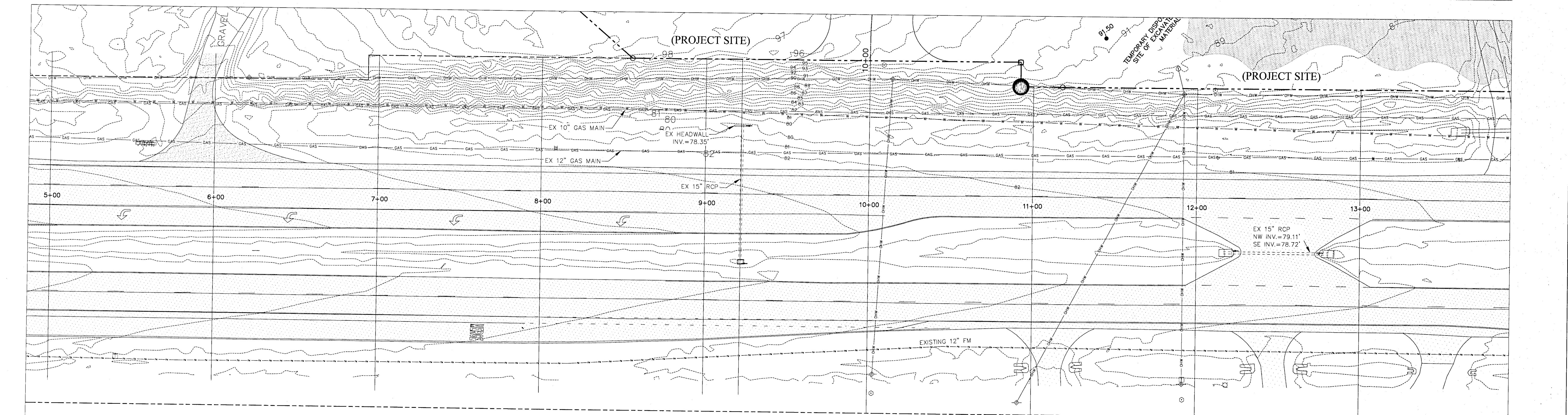
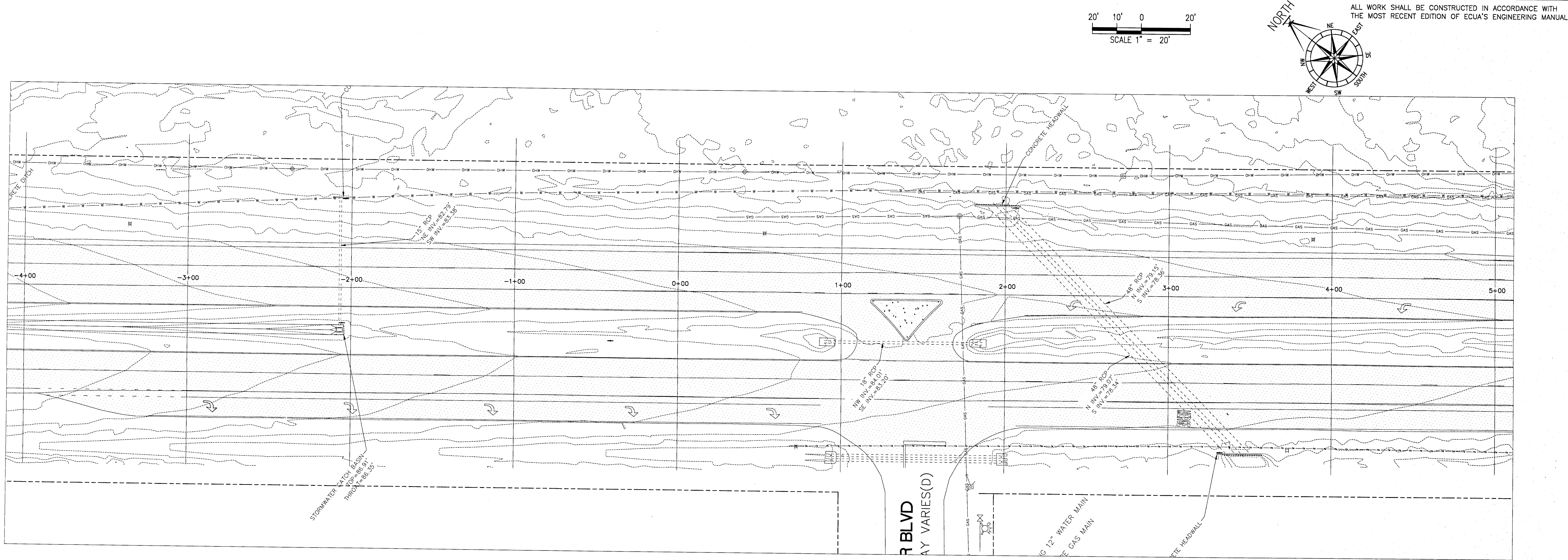
REVISION	DATE
1	01/24/21
2	2/26/21
3	3/31/21

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL



PROJECT NUMBER 18-039
PLOT DATE 3/31/21
SHEET C34 OF C40



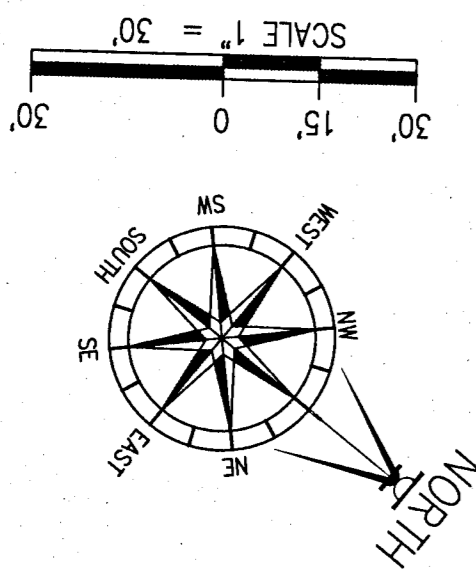
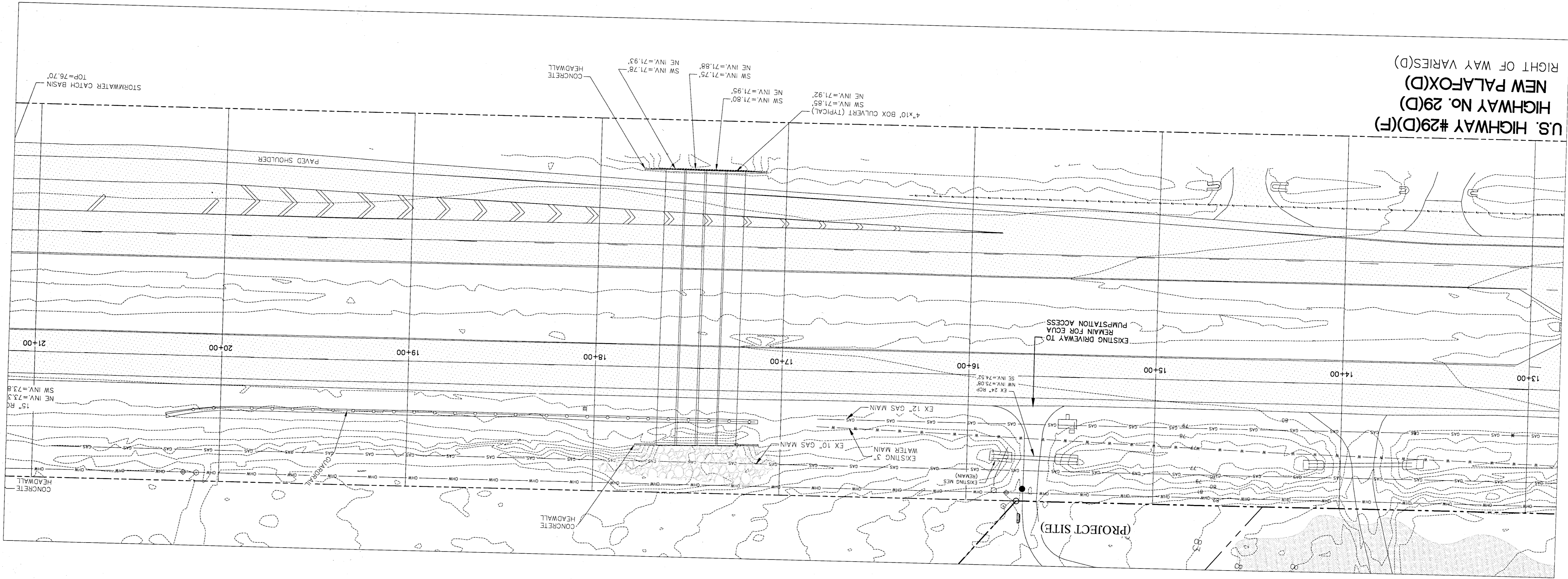
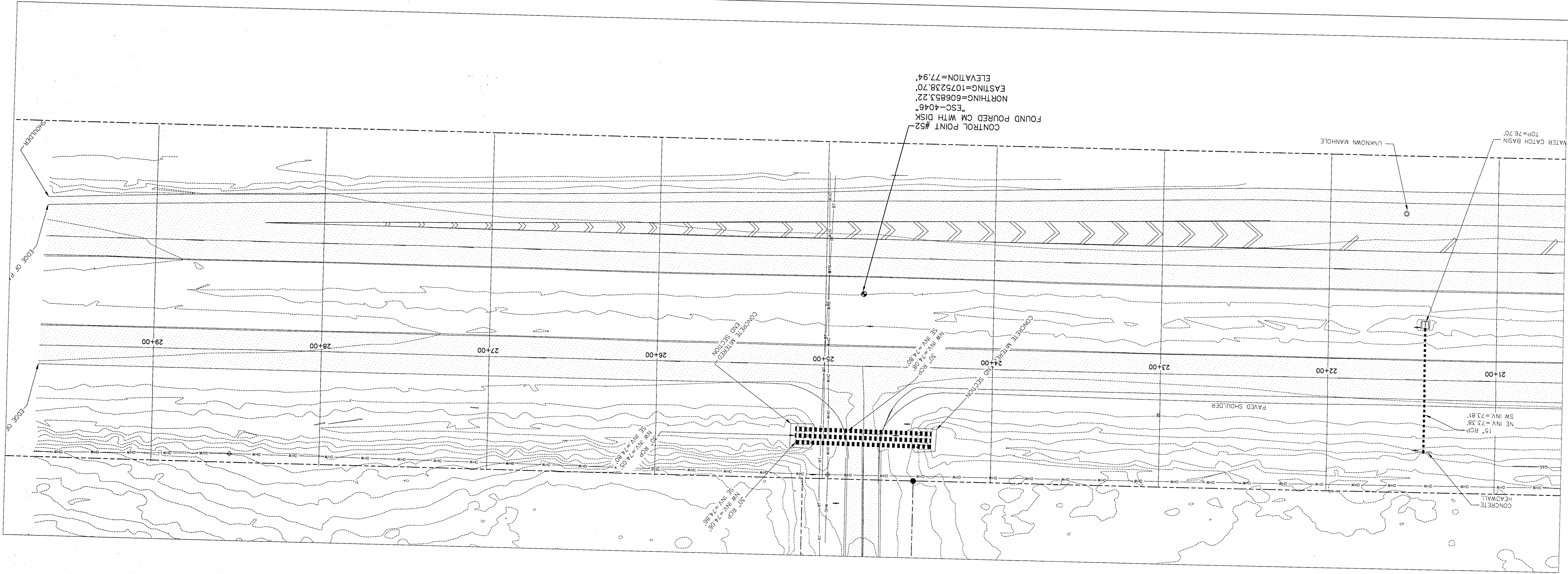
U.S. HIGHWAY #29(D)(F)
HIGHWAY No. 29(D)
NEW PALAFOX(D)
RIGHT OF WAY VARIES(D)

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TURTLE CREEK
HWY 29 - EXISTING CONDITIONS

REVISION	DATE	BY	DESCRIPTION
1	12/20/20	A. BURKETT	POST TRAFFIC COMMENT REVISIONS
2	2/28/21	D. FITZPATRICK	SOIL COMMENT REVISIONS
3	3/31/21	D. FITZPATRICK	USARMA COUNTY COMMENT REVISIONS

DRAWN BY: A. BURKETT
DESIGNED BY: D. FITZPATRICK
SIGNATURE & SEAL DAVID W. FITZPATRICK P.E. NO. 47618 STATE OF TEXAS PROFESSIONAL ENGINEER
PROJECT NUMBER 18-039
PLOT DATE 3/31/21
SHEET C35 OF C40



ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

NUMBER	REVISION	DATE
1	PROPOSED CONCRETE RETAINING	12/10/09
2	ECUA COMMENT REVISIONS	12/01/10
3	ECUA COMMENT CONCRETE REVISIONS	10/11/11

PROJECT
18-039

DATE
3/31/21

PROJECT
18-039

DATE
3/31/21

DESIGNED BY
D. FITZPATRICK

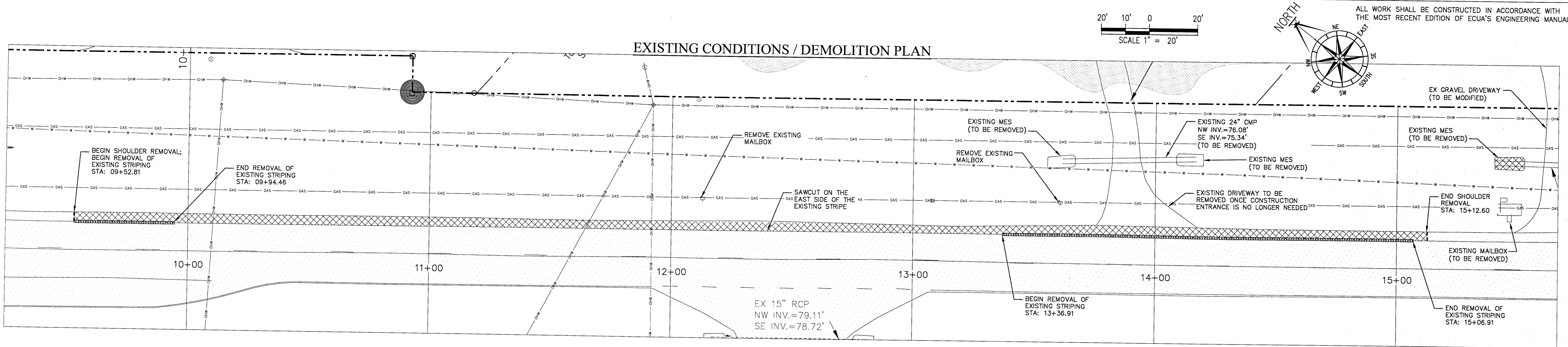
DRAWN BY
A. BURETT

SIGNATURE & SEAL
DAVID W. FITZPATRICK
REGISTERED PROFESSIONAL ENGINEER
FLORIDA
LICENSE NO. 12345

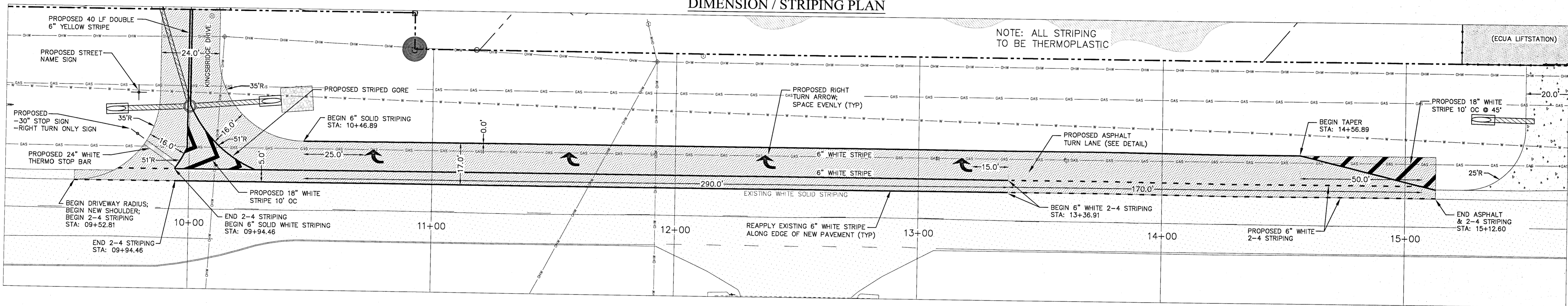
TURTLE CREEK
EXISTING CONDITIONS - HWY 29

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EXISTING CONDITIONS / DEMOLITION PLAN

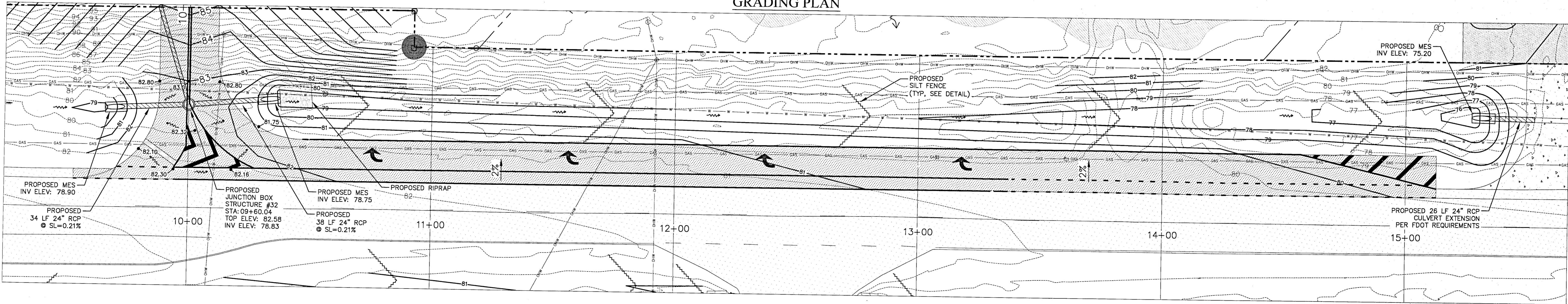


DIMENSION / STRIPING PLAN



NOTE: SEE FDOT UTILITY PERMIT FOR DETAILS

GRADING PLAN

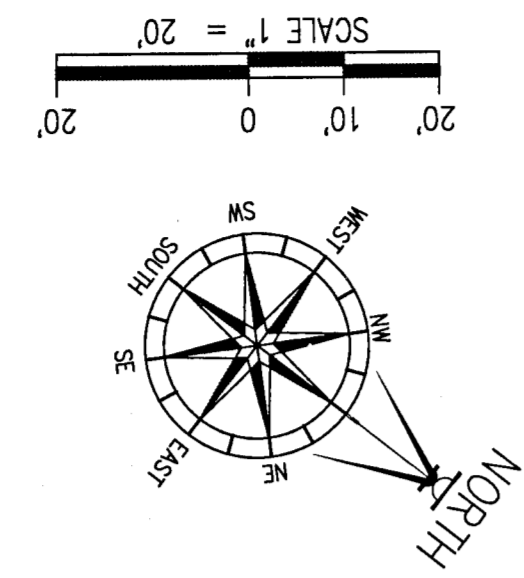
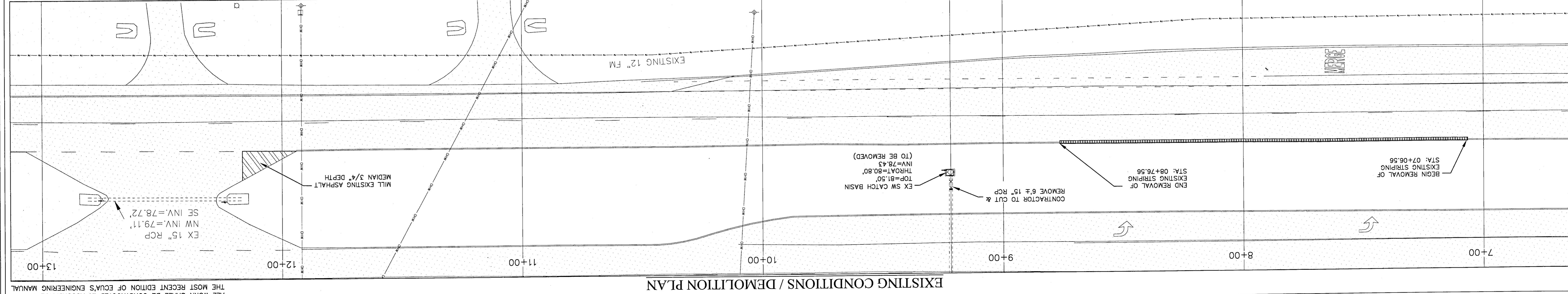
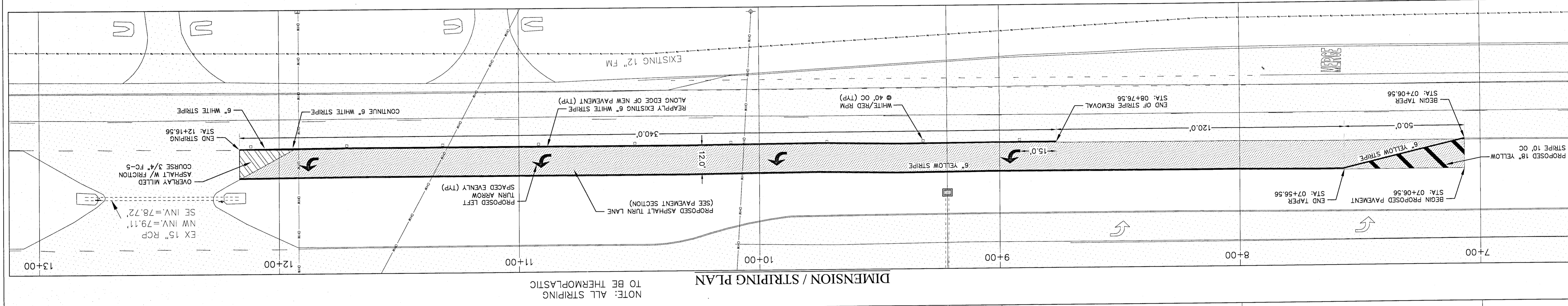
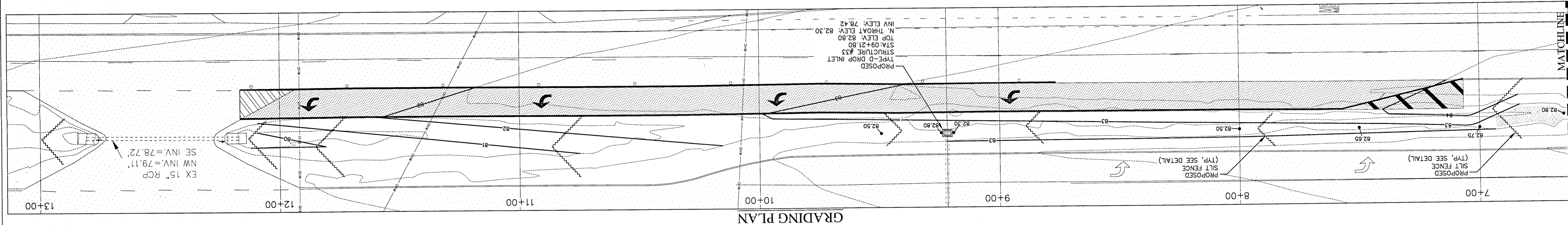
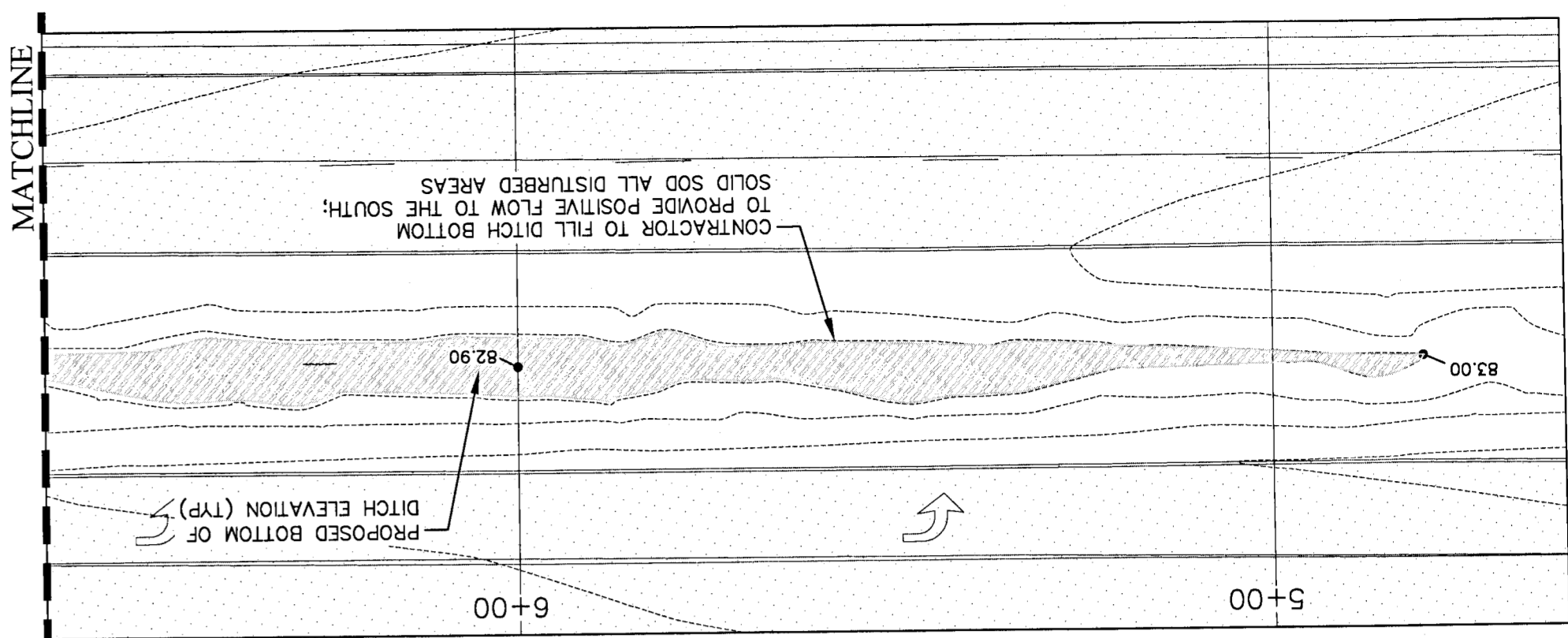


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TURTLE CREEK

HWY 29 - RIGHT TURN LANE

DATE	12/1/09
REVISION	1. FDOT TRAFFIC CONTROL REVISIONS
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	3. ESCANABA COUNTY COMMENT REVISIONS
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ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

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BOARD OF PROFESSIONAL REGULATION #00006423

NUMBER	REVISION	DATE
1	ISSUED	03/08
2	FOR COMMENTS	03/08
3	FOR COMMENTS	03/08

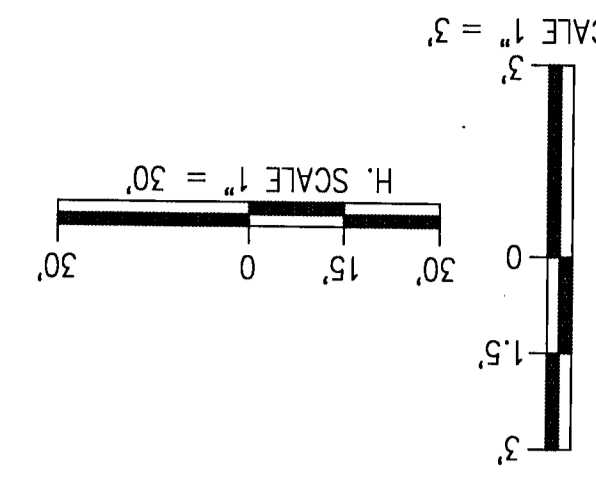
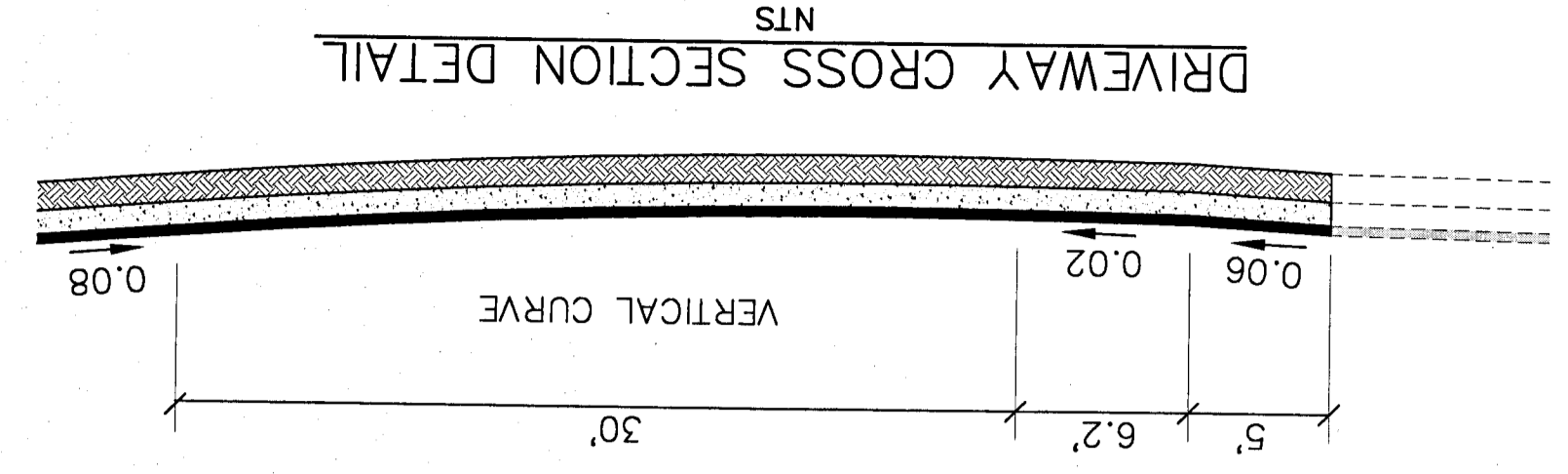
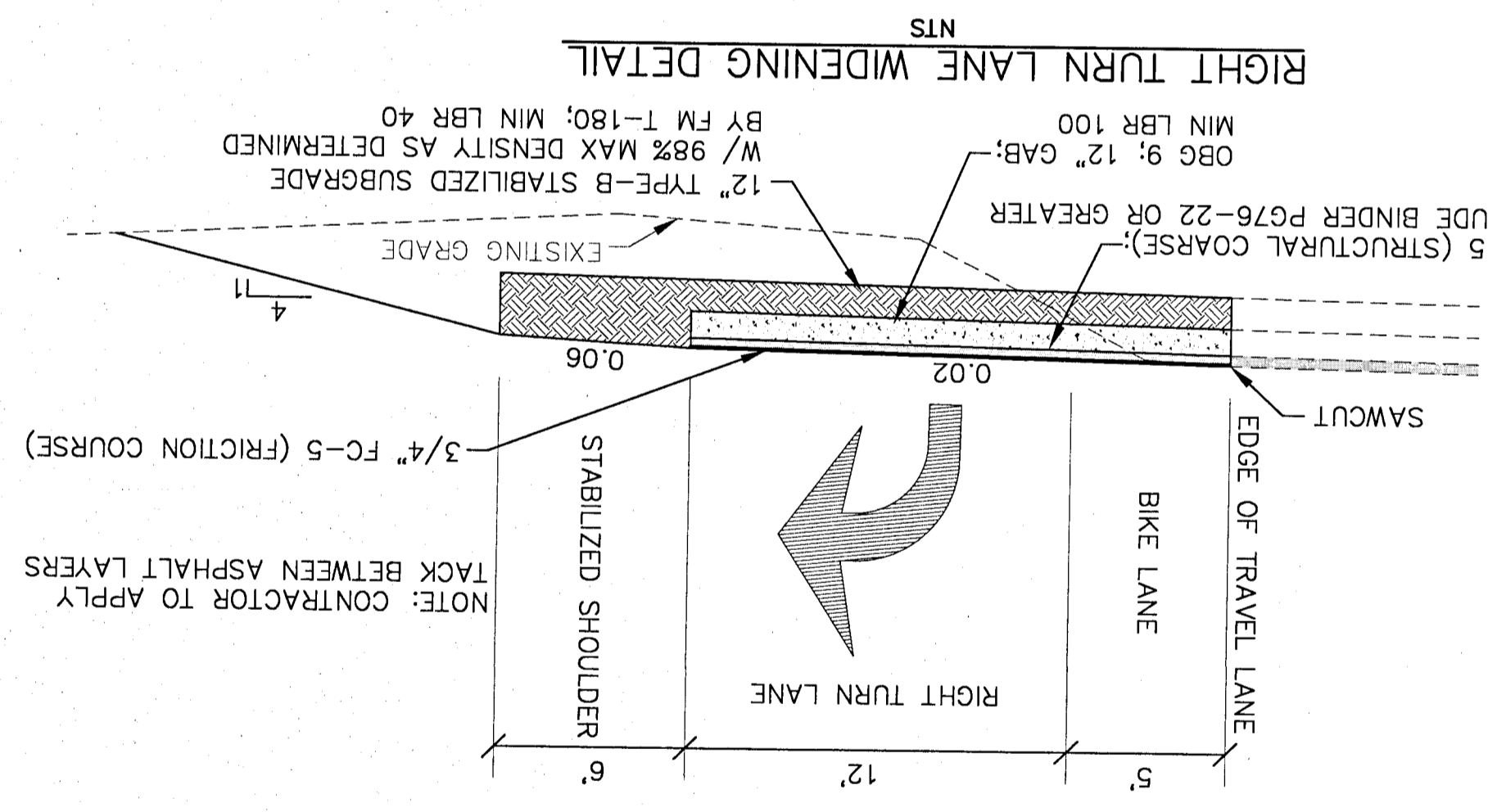
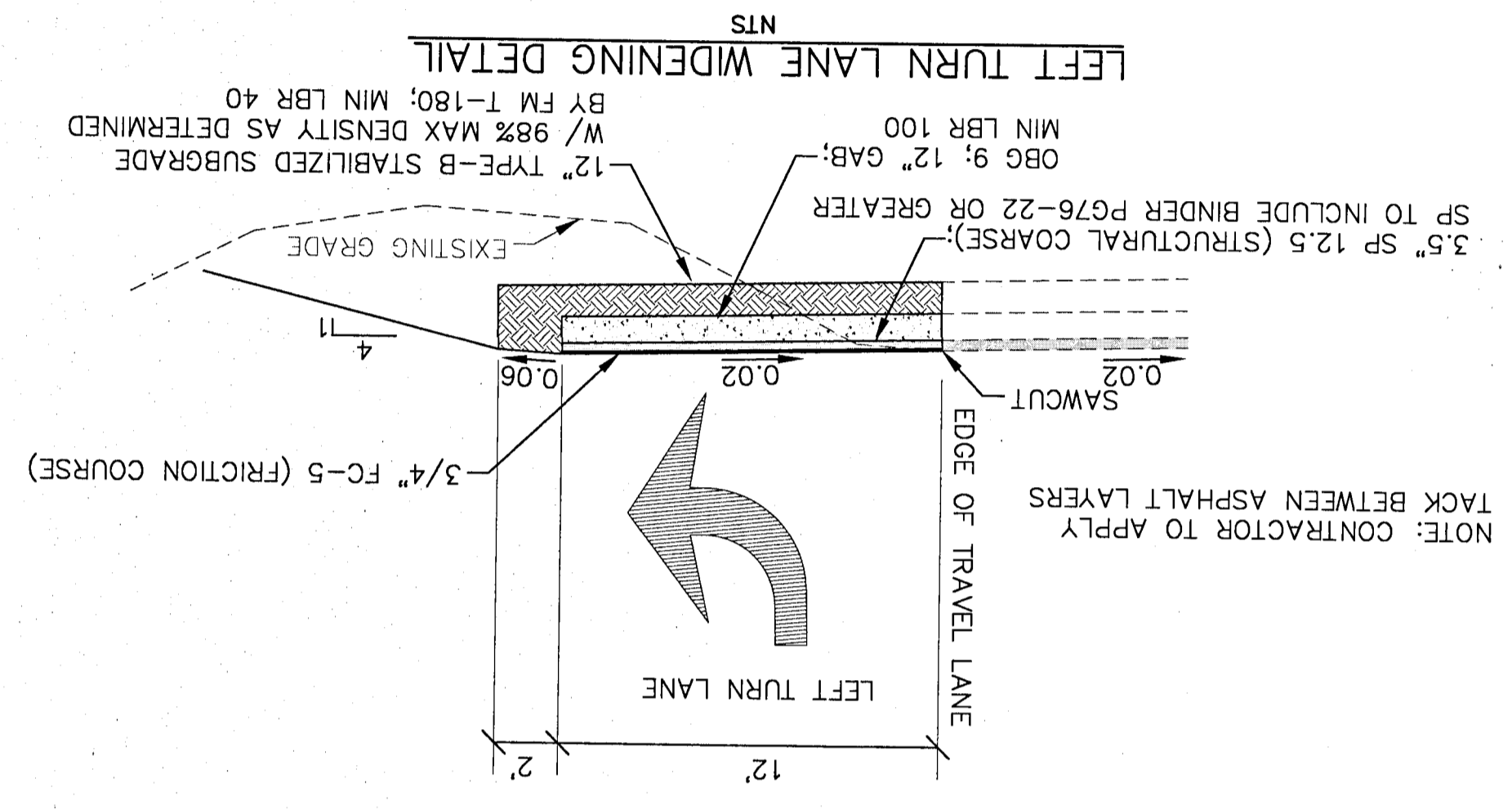
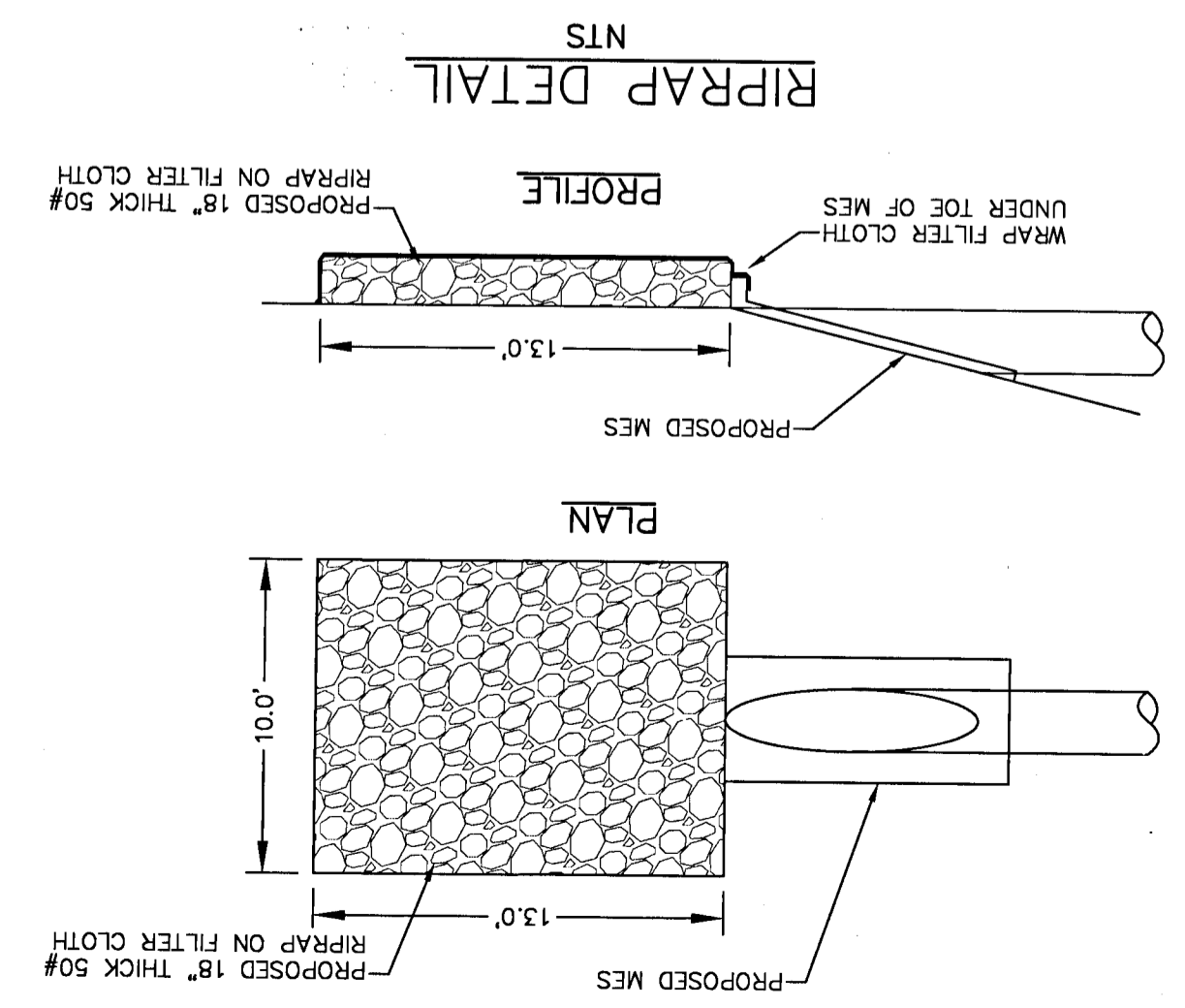
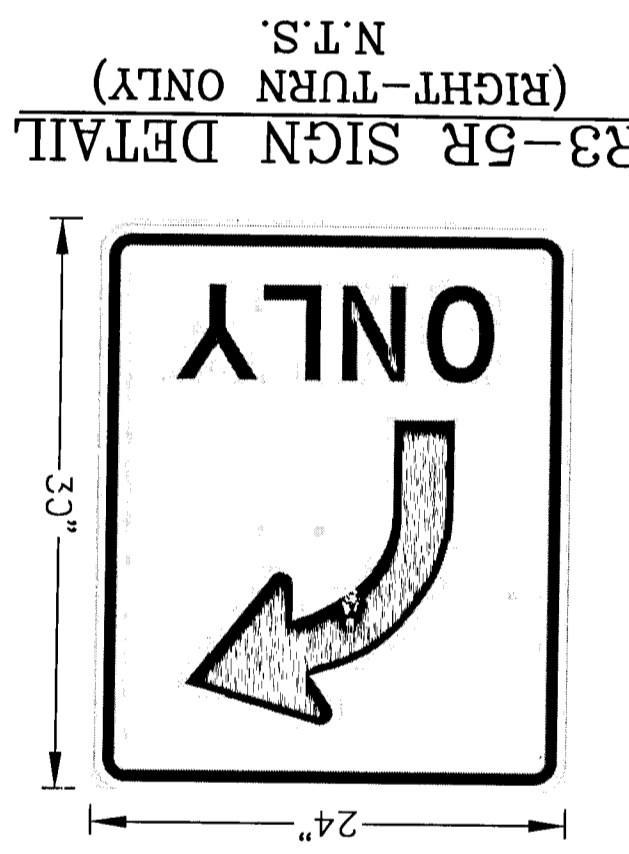
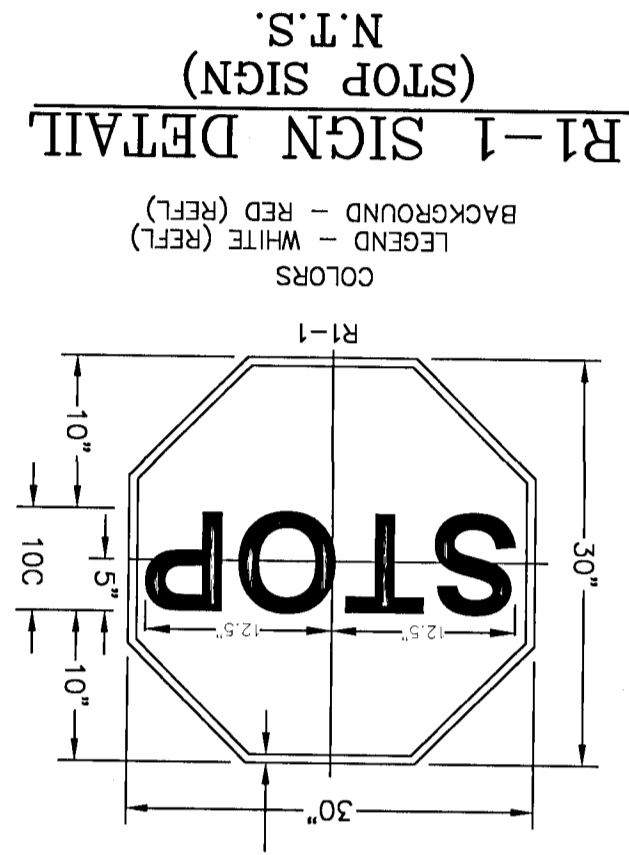
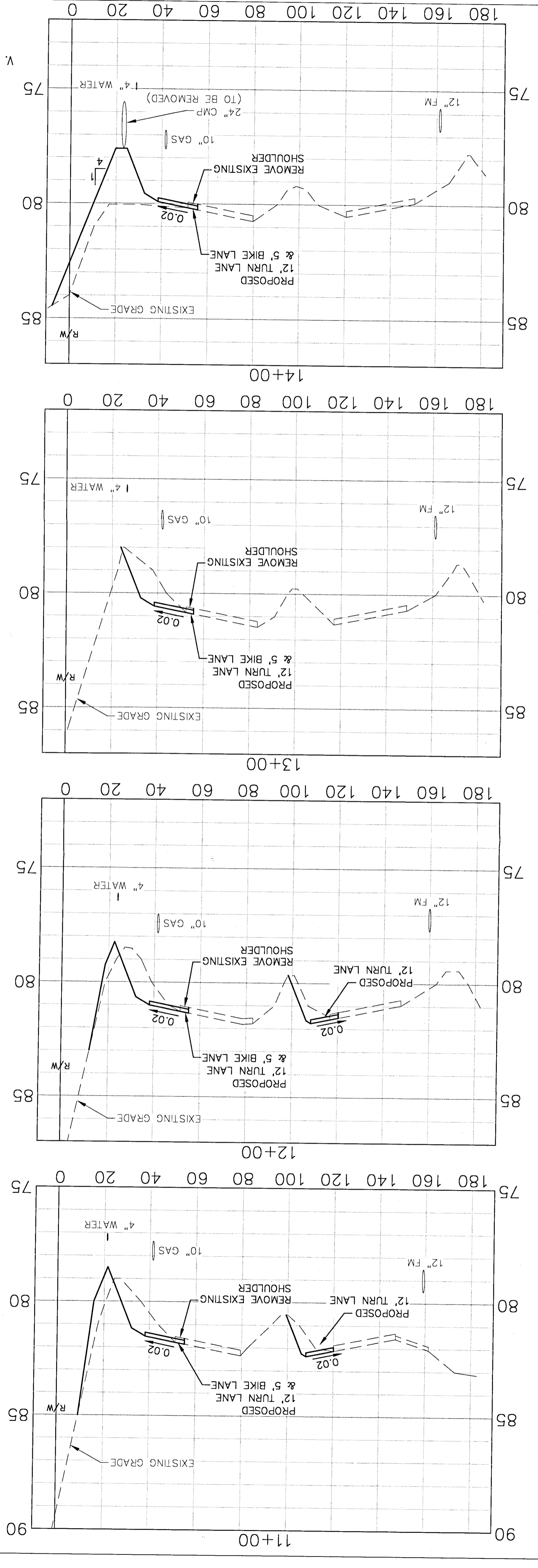
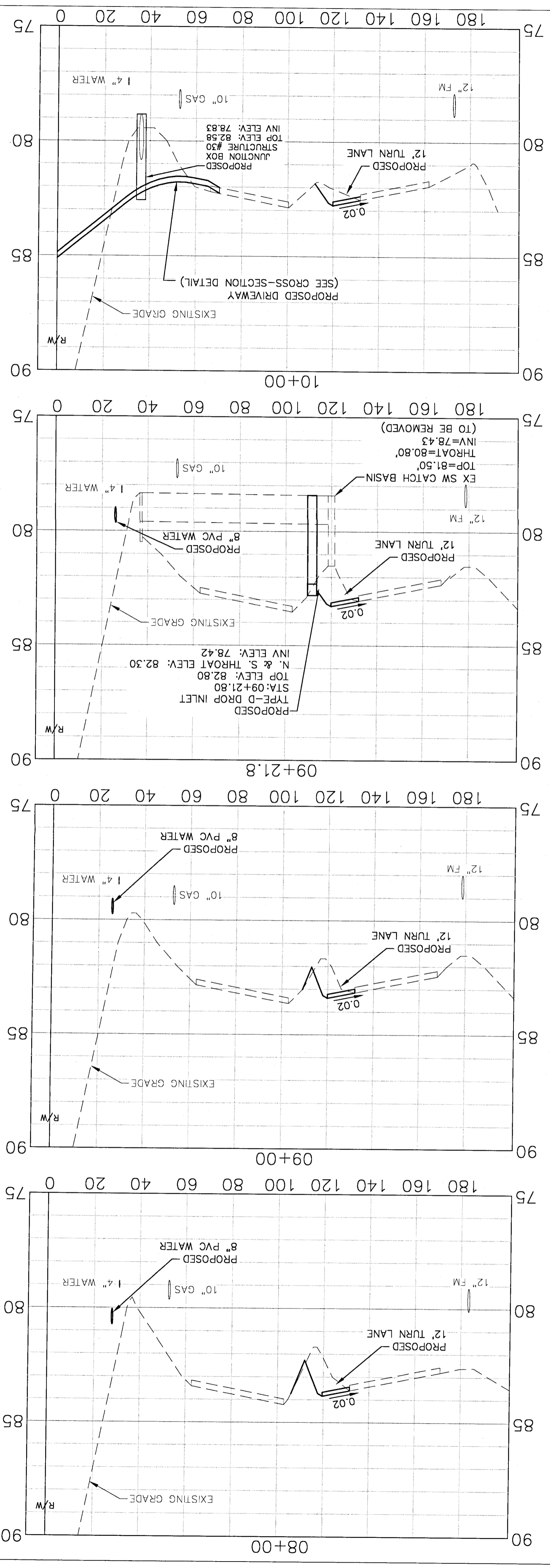
DAVID W. FITZPATRICK
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BOARD OF PROFESSIONAL REGULATION #00006423

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BOARD OF PROFESSIONAL REGULATION #00006423

TURTLE CREEK
HWY 29 - LEFT TURN LANE



ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

1. UTILITIES SHOWN WERE NOT LOCATED IN THE FIELD. ALL UTILITY LOCATIONS AND DEPTHS ARE ASSUMED. OTHER UTILITIES NOT SHOWN MAY BE PRESENT. CONTRACTOR IS TO VERIFY LOCATION AND DEPTHS OF ALL UTILITIES PRIOR TO INITIATING CONSTRUCTION.

2. PROPOSED WORK IS WITHIN THE LIMITS OF FDOT ROADWAY MILLING AND RESURFACING PROJECT 437746-1-52-01, WHICH WILL LIKELY EXTEND INTO THE ROADWAY CONTRAIL BEYOND SEPTEMBER, 2020. CONTRACTOR TO COORDINATE WITH THE ROADWAY CONTRAIL, INC. IF ANY WORK IS TO COMMENCE PRIOR TO THE COMPLETION OF THE FDOT PROJECT.

3. TREE REMOVAL WITHIN THE FDOT RIGHT-OF-WAY REQUIRES APPROVAL FROM FDOT.

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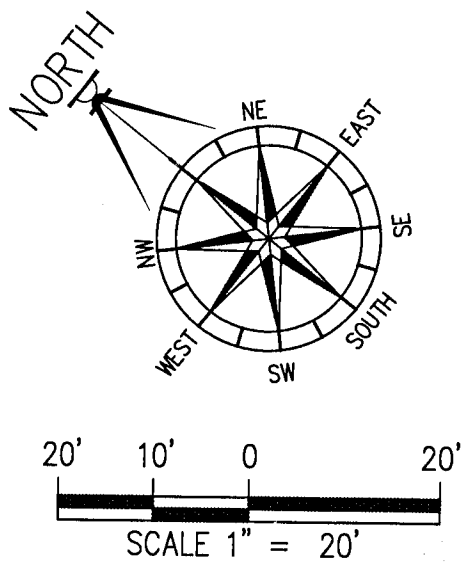
BOARD OF PROFESSIONAL REGULATION #00008423

TURTLE CREEK

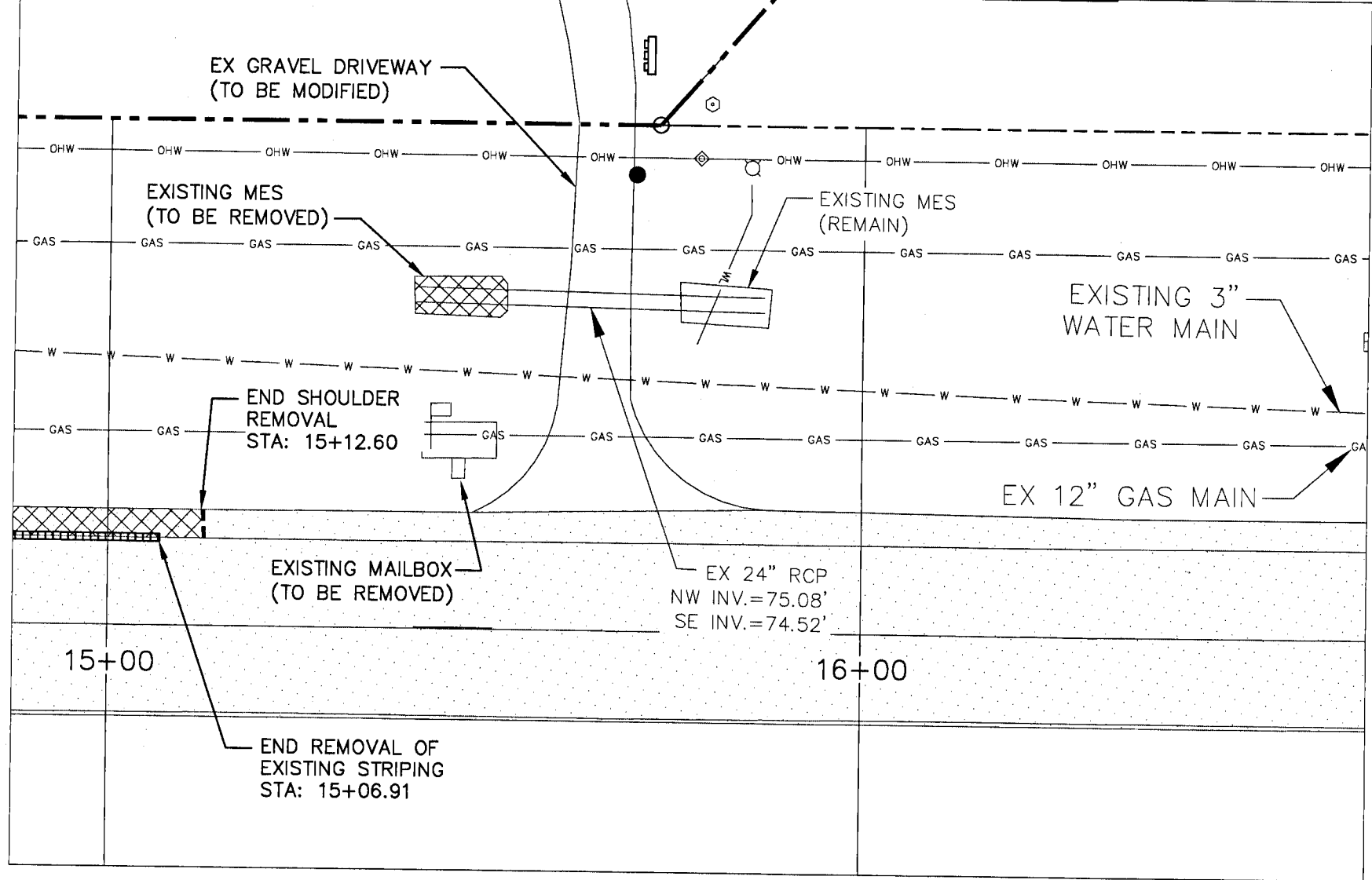
FDOT CROSS-SECTIONS

NUMBER	REVISION	DATE
1	PROPOSED COMMENTS	12/14/20
2	ECUA COMMENTS	2/24/21
3	ECUA COMMENTS	3/1/21

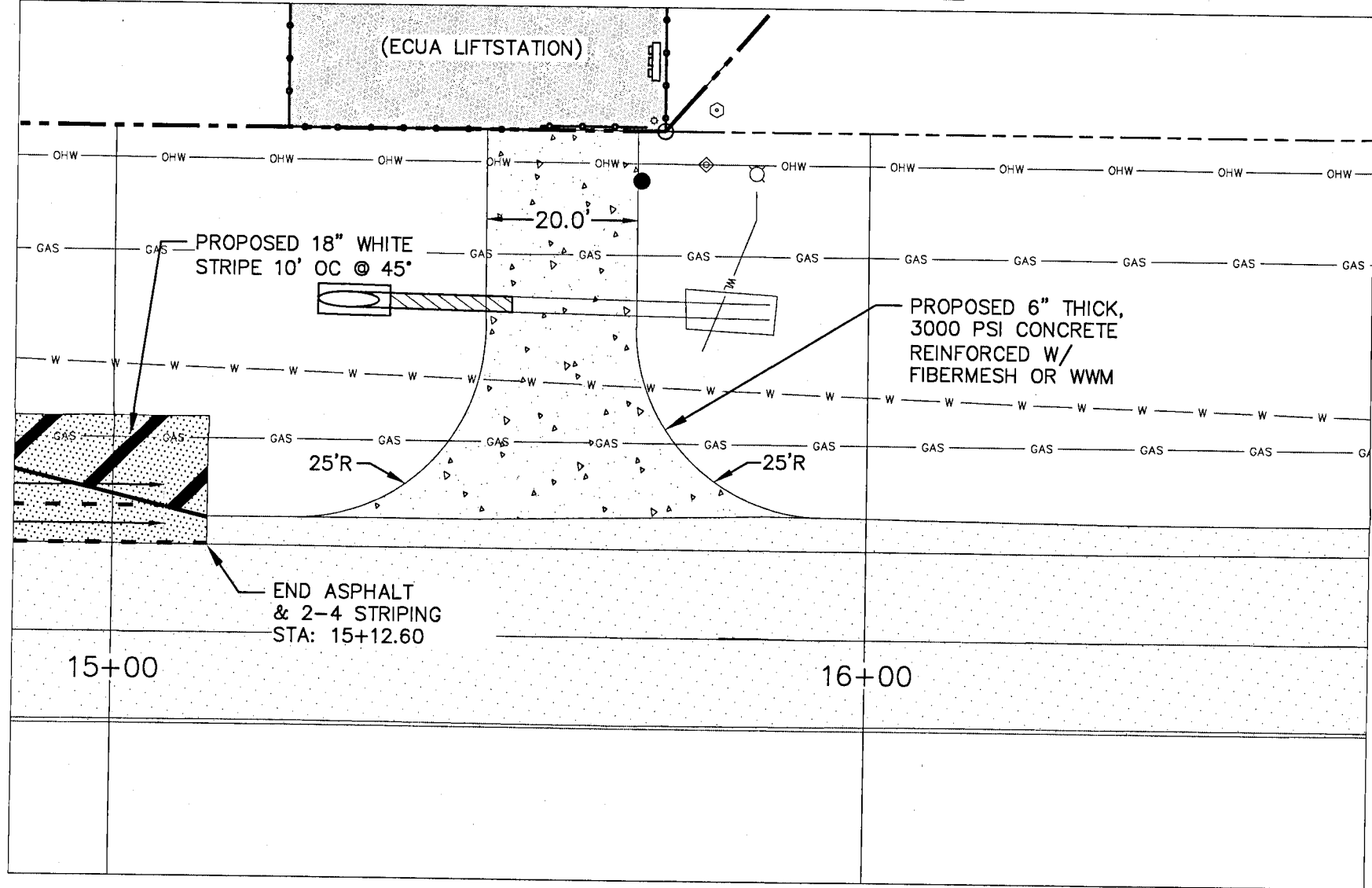
DESIGNED BY: A. BURKETT
CHECKED BY: D. FITZPATRICK
SIGNATURE & SEAL
PROJECT: 437746-1-52-01
DATE: 3/31/21
SHEET: C39 OF C40



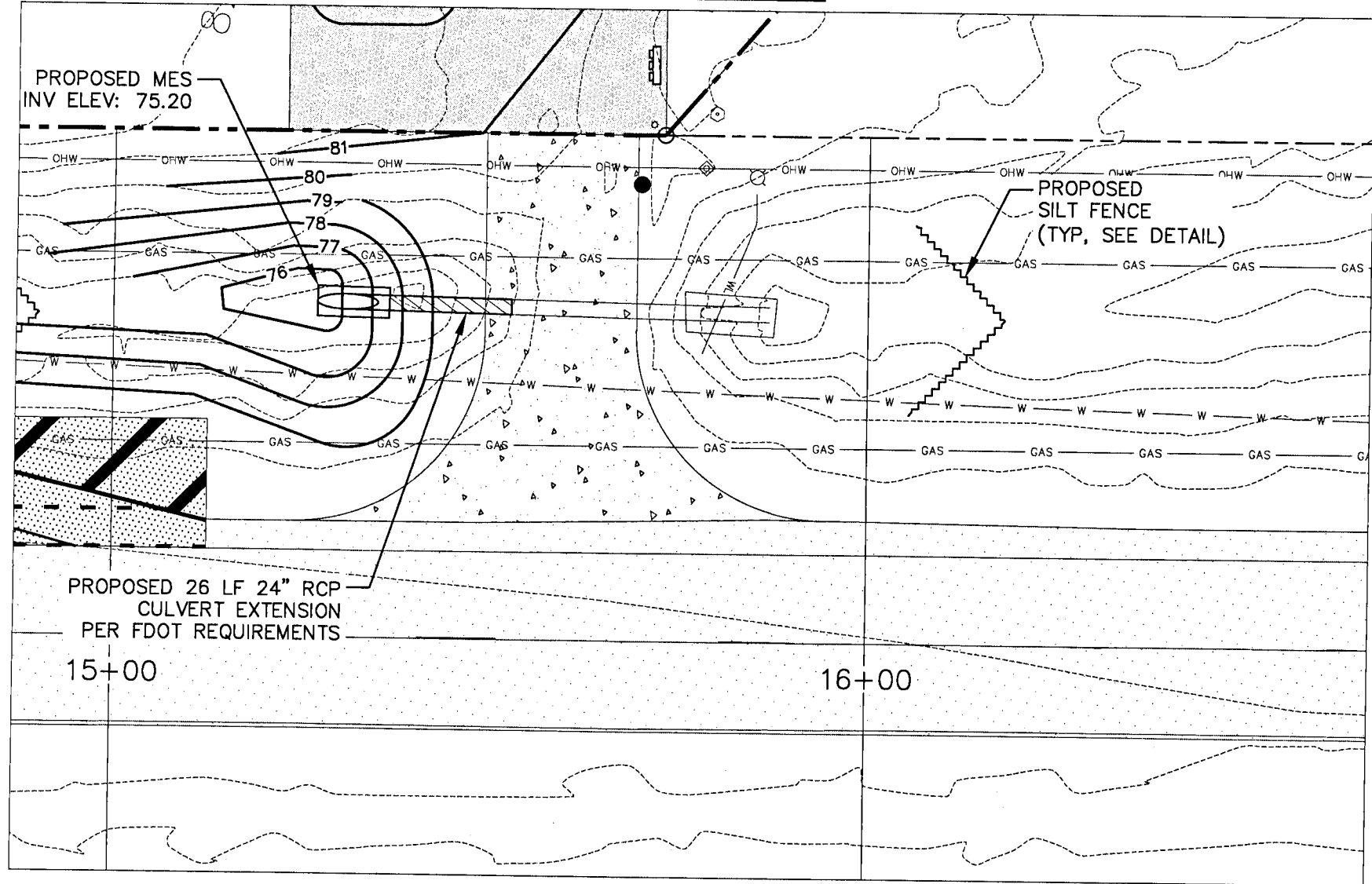
EXISTING CONDITIONS / DEMOLITION PLAN



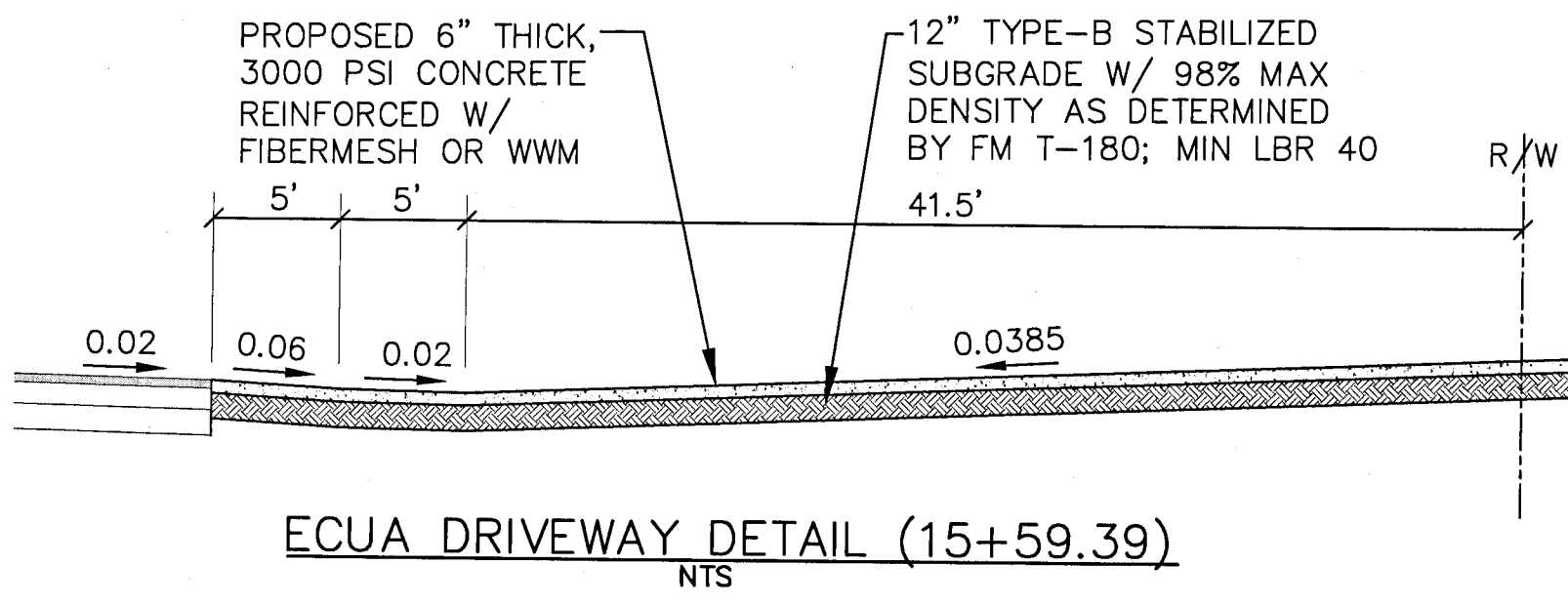
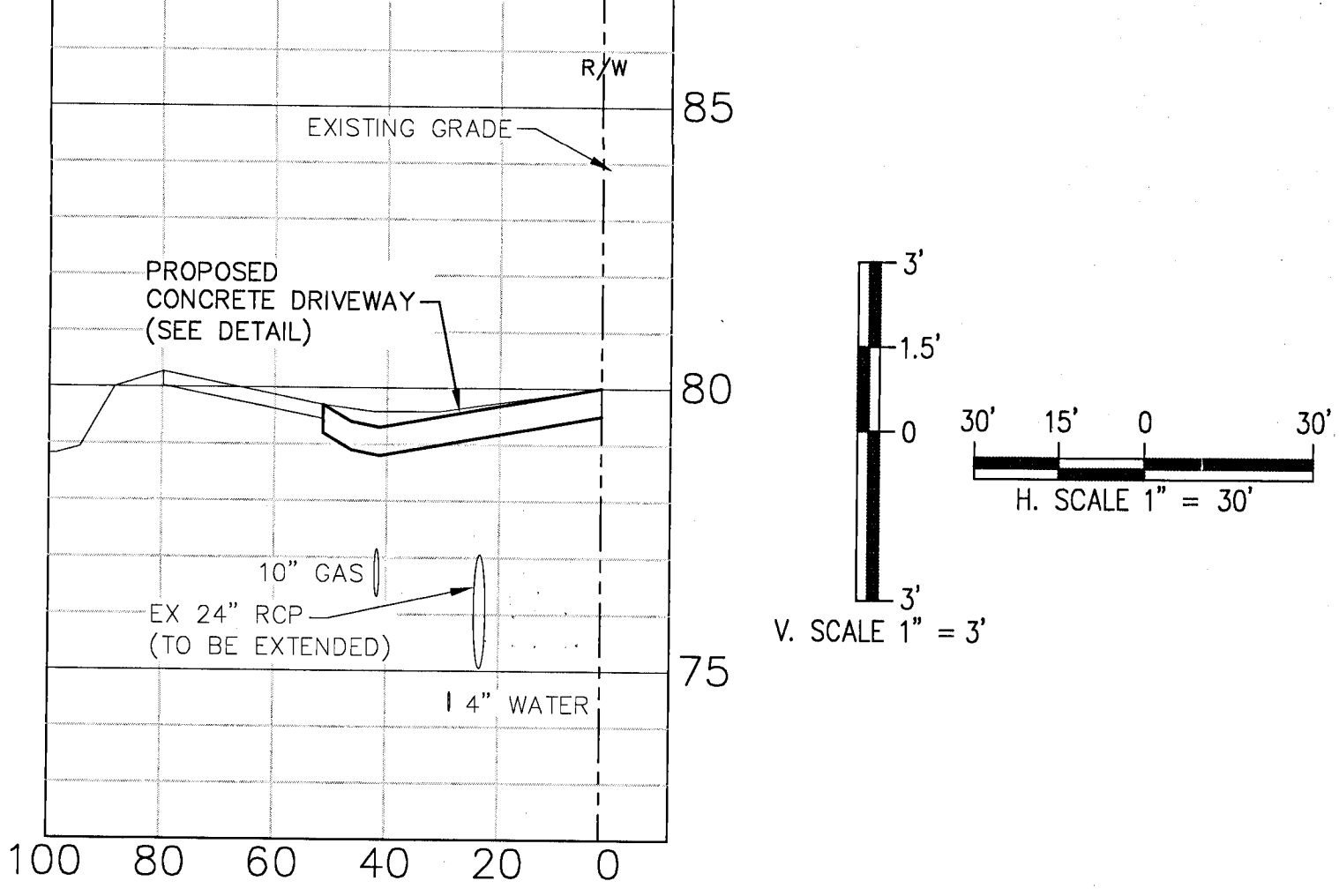
DIMENSION / STRIPING PLAN



GRADING PLAN



15+59.39 (ECUA DRIVEWAY)



DAVID W. FITZPATRICK
PROFESSIONAL ENGINEER, P.A.
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TURTLE CREEK
HWY 29 - ECUA DRIVEWAY

DATE	12/1/20
REVISION	1. ECUA COMMENT REVISIONS
NUMBER	1
REVISION	2. ECUA COMMENT REVISIONS
NUMBER	2
REVISION	3. ECUA COMMENT REVISIONS
NUMBER	3

DRAWN BY:
A. BURKETT
DESIGNED BY:
D. FITZPATRICK

SIGNATURE & SEAL
DAVID W. FITZPATRICK
P.E.
No. 4781
STATE OF FLORIDA
DATE 3/31/21
PROJECT NUMBER 18-039
PLOT DATE 3/31/21
SHEET C40 OF C40