

4 OWNER/PRIMARY PERMITTEE:
 JOINT DEVELOPMENT AUTHORITY OF PEACH COUNTY AND THE CITY OF WARNER ROBINS
 425 JAMES E. KHOURY DRIVE, UNIT B
 FORT VALLEY, GA 31030
 CONTACT: BJ WALKER
 PHONE: 478-825-3826
 EMAIL: bufordwalker3@gmail.com

These plans meet the minimum requirements of the City of Warner Robins. Approval for construction is hereby authorized.
 Burke B. Murph III
 Interim City Engineer of Warner Robins, GA

SITE ENGINEER:
 MOORE CIVIL CONSULTING, INC.
 402 COURTNEY HODGES BLVD
 SUITE 102
 PERRY, GA 31069
 CONTACT: ROBERT E. MOORE, JR.
 PHONE: 706-224-1629
 ROBERT@MOORECIVIL.COM

5/31/2023, 10:30:48 AM
 1:20:25 PM
 Burke Murph III

SURVEYOR:
 WELLSTON ASSOCIATES LAND SURVEYORS, LLC
 506 OSIGIAN BLVD
 SUITE 2
 WARNER ROBINS, GA 31008
 PHONE: 478-971-3382

This approval does not constitute permission to encroach onto adjoining properties, utility easements, and non-City right of ways. It is the duty of the site contractor / developer / owner to gain permission, temporary or permanent easements to conduct work outside the owner's property.

24-HOUR CONTACT: BJ WALKER
 PHONE NUMBER: 478-256-9257

CONSTRUCTION PLANS FOR ROBINS INTERNATIONAL INDUSTRIAL PARK ROAD EXTENSION CRESTVIEW CHURCH ROAD EXTENSION WARNER ROBINS, PEACH COUNTY, GA 31008 LAND LOT 64, 5TH DISTRICT

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MOORE CIVIL
CONSULT 7-DESIGN-ENGINEER
 ROBERT@MOORECIVIL.COM
 706-224-1629

LEVEL II CERTIFIED
 DESIGN PROFESSIONAL
 GSWSOC #0000004090
 EXPIRATION: 05/30/2023

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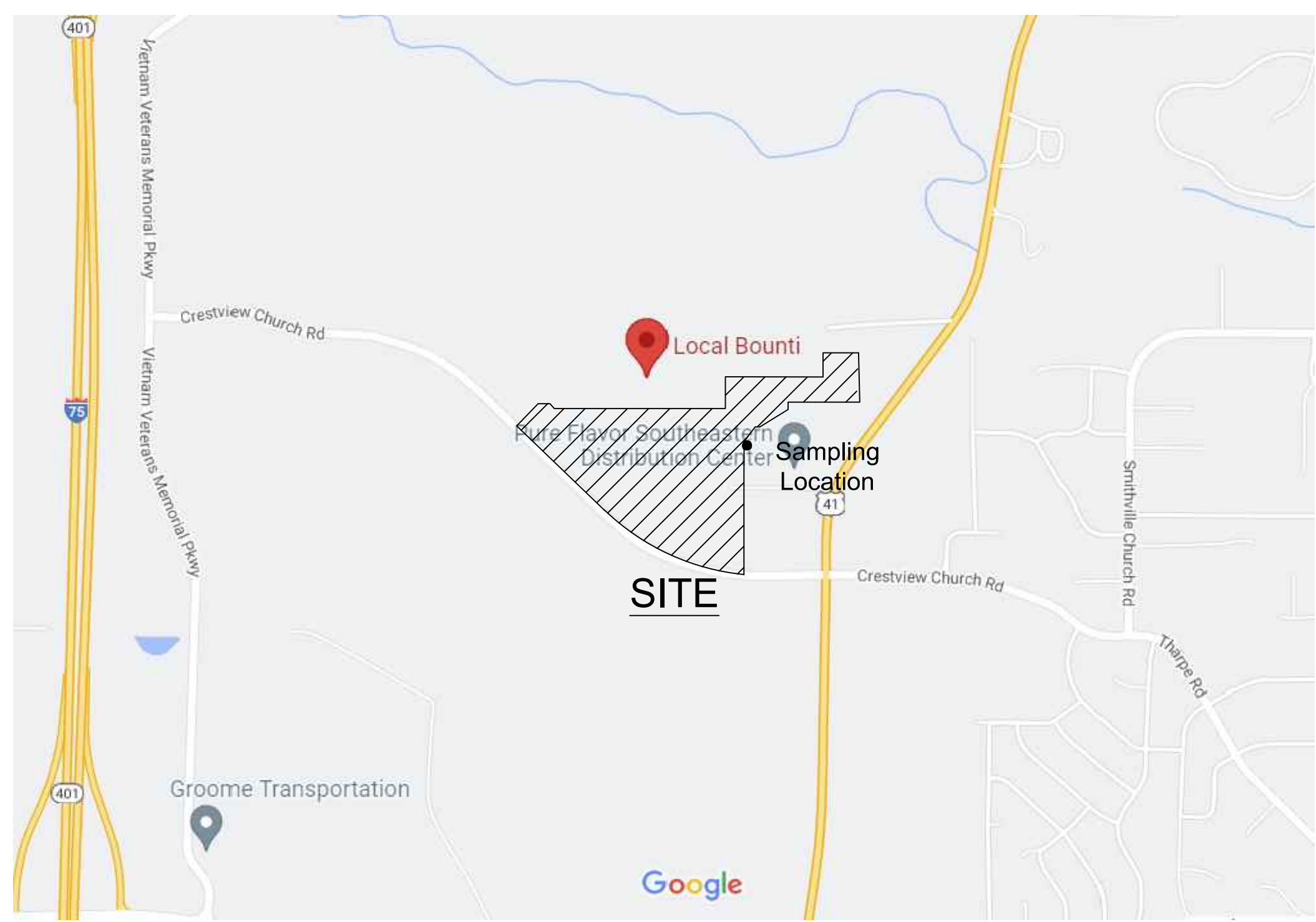
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REVISIONS:

03/02/23	1ST LDP SUBMITTAL
04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL



Legend

SEE THE REPORT FOR DETAILED LEGEND INFORMATION

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Data - 100 Year Depth (100 YR 1% ARI) - 100 Year Recurrence Interval
- 100 Year Recurrence Interval

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard: Areas of 2% Annual Chance Flood with a average depth that are less than or equal to average areas of 1% Annual Chance Flood Hazard
- 1-hour Duration, 2% Annual Chance Flood Hazard: Areas with Flood-out Flood Hazard with a Depth less than 1.0' and a Velocity less than 1.0' per second
- Areas of Unclassified Flood Hazard: Areas of Unclassified Flood Hazard

OTHER FEATURES

- Channel, Culvert, or Stream Center
- Levee, Dike, or Roadwall
- 0.2% Annual Chance Flood Hazard: Areas of 2% Annual Chance Flood with a average depth that are less than or equal to average areas of 1% Annual Chance Flood Hazard
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- Areas of Unclassified Flood Hazard: Areas of Unclassified Flood Hazard

MAP FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

The plan displayed on this map is an approximation point selected by the user and does not represent an authoritative position location.

This map complies with FEMA standards for the use of digital elevation data (DEM) for flood hazard analysis. The accuracy of the DEM data is not guaranteed. The accuracy of the map is dependent on the accuracy of the DEM data.

The flood hazard information is derived from the National Flood Hazard Layer (NFHL) with service provided by FEMA. This map was updated on 10/26/2023. The NFHL data reflects changes in flood hazard information that may change or become superseded by subsequent versions.

This map is valid for the use of the following map elements for the purpose of flood hazard analysis: flood zone labels, legend, scale bar, north arrow, coordinate information, FEMA panel number, and FEMA logo. The NFHL data is not intended for use in any other application without the express written permission of FEMA.

Scale: 1:6,000
 Date: 9/26/2008

GENERAL NOTES

BOUNDARY & TOPO INFORMATION TAKEN FROM SURVEY BY WELLSTON ASSOCIATES LAND SURVEYORS, LLC.

PROPERTY IS LOCATED IN THE 64TH LAND LOT OF THE 5TH DISTRICT, PEACH COUNTY, GEORGIA.

NOTIFY THE CITY OF WARNER ROBINS INSPECTION OFFICE 24 HRS BEFORE BEGINNING OF CONSTRUCTION.

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

STANDARD AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA."

ANY DISCREPANCY FOUND SHALL BE REFERRED TO THE SITE ENGINEER BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

CUT & FILL SLOPES SHALL NOT EXCEED 2:1

ALL CUT & FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN SEVEN DAYS OF THEIR CONSTRUCTION

ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES ANY DISCREPANCY FOUND SHALL BE REFERRED TO THE SITE ENGINEER BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

ALL CONSTRUCTION SHALL MEET OR EXCEED CITY OF WARNER ROBINS MINIMUM STANDARDS. ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES. CONTRACTOR SHALL VERIFY ALL BENCH MARKS BEFORE BEGINNING ANY WORK. CONTRACTOR HAS OPTION TO USE PRECAST STRUCTURES AND HEADWALLS OR CAST IN PLACE.

ALL PIPE AND STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF WARNER ROBINS SPECIFICATIONS. DETENTION BASIN AND EROSION CONTROL MEASURES TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

CONTRACTOR SHALL STAKE ALL BUILDING CORNERS FOR APPROVAL PRIOR TO POURING ANY FOOTINGS.

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.

SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY.

DO NOT SCALE FROM DRAWINGS.

SIDEWALK AND ADA SPACE SLOPE:

CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 2.0%.
 ADA PARKING AND VAN SPACES SHALL NOT EXCEED 2.0% SLOPE IN ANY DIRECTION.

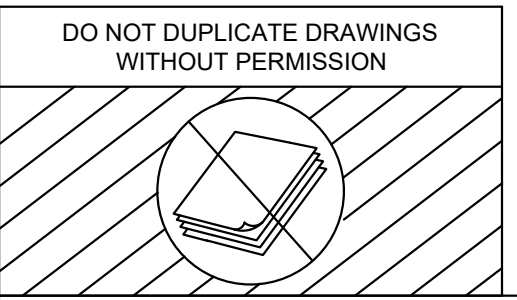
HYDROLOGY NOTE:

THE RUNOFF FROM THE PROPOSED DEVELOPMENT WILL FLOW TO THE EXISTING CANAL DESIGNED AND PERMITTED BY INGRAM & ASSOCIATES CONSULTING ENGINEERS, LLC. THE CANAL SYSTEM ROUTES ALL RUNOFF FROM THE INDUSTRIAL PARK AS PART OF THE JOINT DEVELOPMENT AUTHORITY OF PEACH COUNTY AND THE CITY OF WARNER ROBINS TO AN EXISTING MASTER DETENTION POND DESIGNED AND PERMITTED BY INGRAM & ASSOCIATES CONSULTING ENGINEERS, LLC. THE EXISTING MASTER DETENTION POND IS SIZED TO HANDLE ALL PROPOSED AND FUTURE DEVELOPMENT FROM THE INDUSTRIAL PARK. A CO FOR THIS PROJECT WILL BE HELD UNTIL THE MASTER DETENTION POND IS COMPLETED.

9 NARRATIVE

THIS PROJECT INVOLVES THE CONSTRUCTION OF A 1,372LF EXTENSION ROAD THAT CONNECTS TO CRESTVIEW CHURCH ROAD AND A SANITARY SEWER EXTENSION IN WARNER ROBINS, GA. THE EXISTING LOT IS A GRASSED LOT WITH A FEW TREES THAT DRAINS TO THE SOUTHEAST OF THE SITE INTO AN EXISTING CANAL THAT DRAINS TO A MASTER STORMWATER DETENTION POND BEFORE DISCHARGING TO A TRIBUTARY OF DRY RUN CREEK.

THE PROPOSED DEVELOPMENT WILL UTILIZE A SWALE AND STORM WATER CULVERT TO CONVEY STORM WATER RUNOFF TO AN EXISTING CANAL TO THE SOUTHEAST OF THE SITE. WITH THE USE OF EROSION CONTROL BMPs FROM THE GEORGIA EROSION CONTROL MANUAL THERE SHOULD BE NO HARMFUL EFFECTS ON DOWNSTREAM PROPERTIES DUE TO THIS DEVELOPMENT.



CAUTION

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29

CONSTRUCTION SCHEDULE	
MONTH 1	MONTH 2
NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION:	ACTIVITY
	PLACEMENT OF CONSTRUCTION EXIT, PERIMETER BMPs, AND SILT STORAGE BMPs
	NO GRADING OPERATIONS ALLOWED UNTIL PERIMETER AND SILT STORAGE BMPs ARE PROPERLY INSTALLED AND INSPECTED
	CLEARING, GRUBBING, AND GRADING OPERATIONS (AS NECESSARY)
	INSTALL SANITARY SEWER EXTENSION AND CONSTRUCTION OF ROAD
	GRASSING - INCLUDING MULCHING, TEMPORARY AND PERMANENT VEGETATION
	MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES
	FINAL STABILIZATION OF SITE

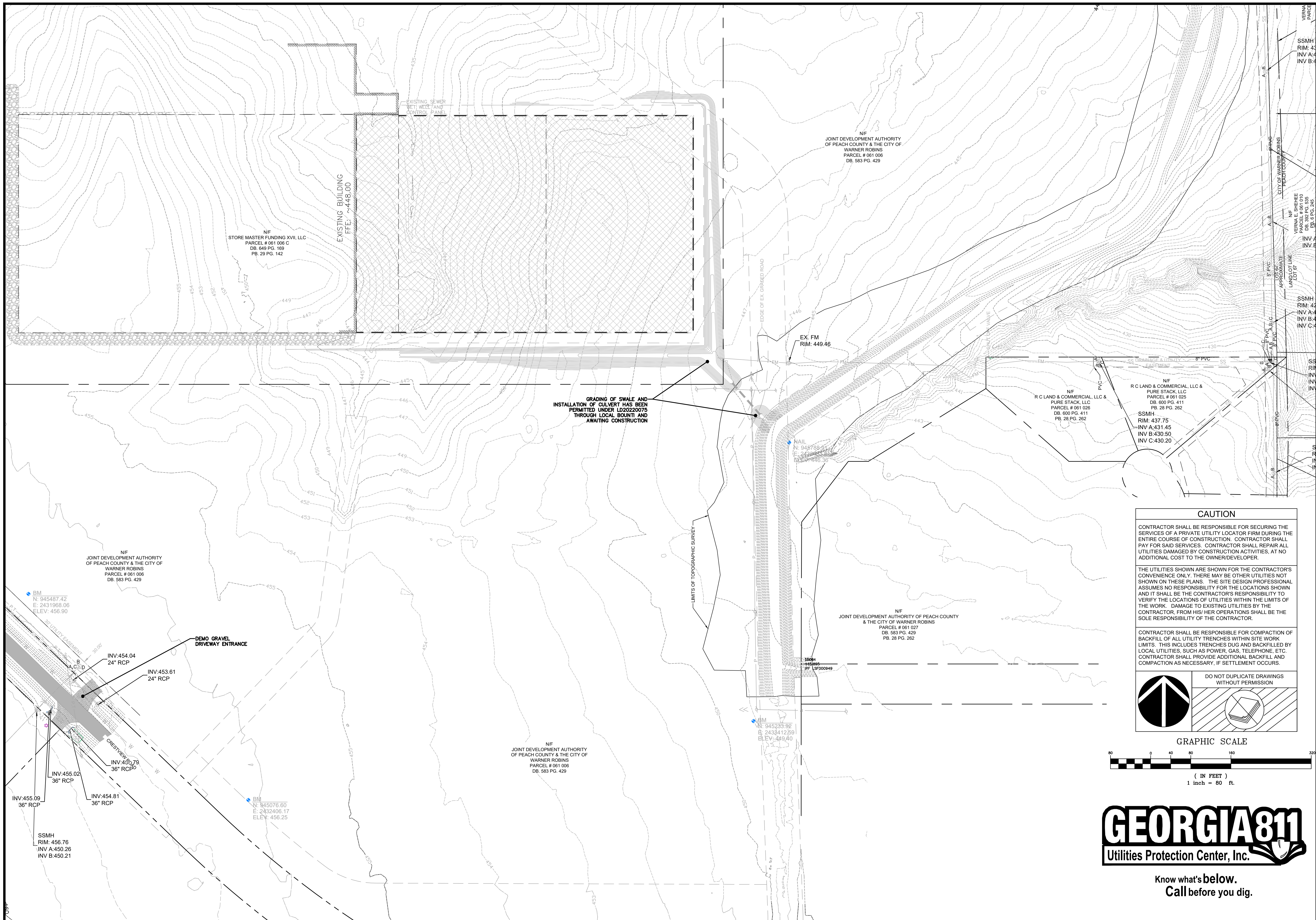


Know what's below.
 Call before you dig.

**ROBINS INTERNATIONAL INDUSTRIAL
 PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008**

SHEET TITLE:
 COVER

SHEET NUMBER:
C.100



MOORE CIVIL
CONSULT-DESIGN-ENGINEER
 706.224.1629
 ROBERT@MOORECIVIL.COM



LEVEL II CERTIFIED
 DESIGN PROFESSIONAL
 GSW/C #0000084000
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 B.J. WALKER
 478-256-9257

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 425 JAMES E. KHOURY DRIVE UNIT B
 FORT VALLEY, GA 31030
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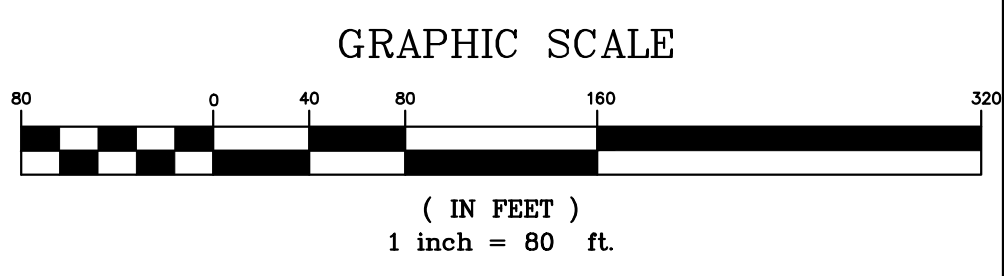
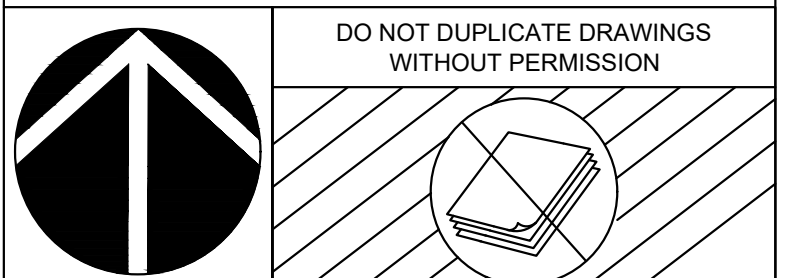
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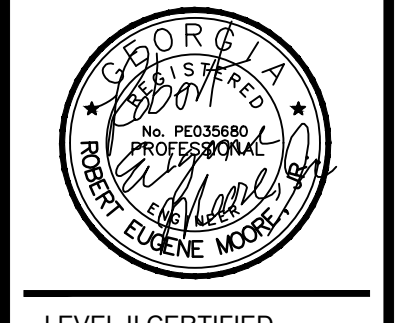


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 PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008**

SHEET TITLE:
 EXISTING CONDITIONS & DEMO PLAN

SHEET NUMBER:
C.105



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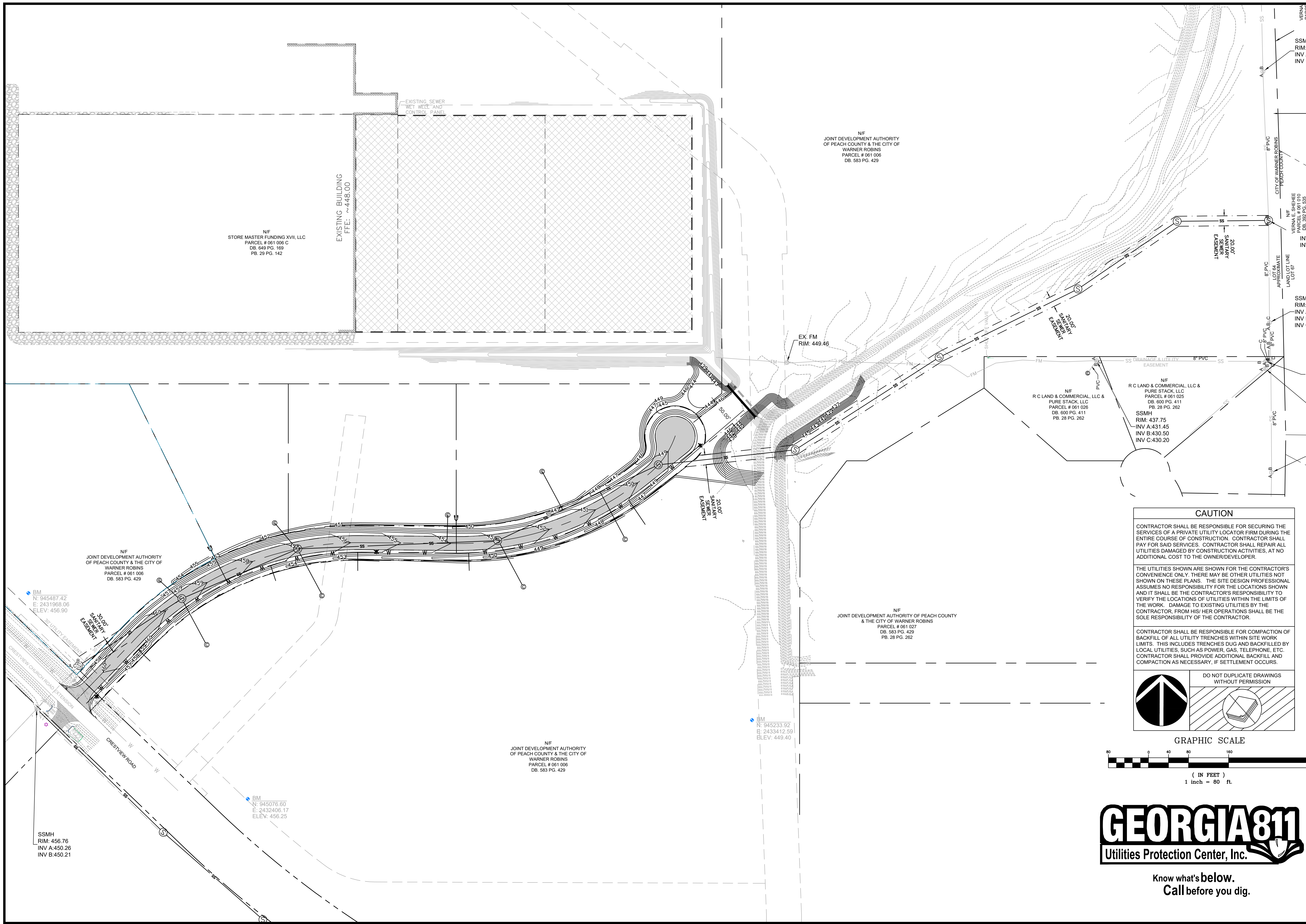
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03/02/23	1ST LDP SUBMITTAL
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05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

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SHEET TITLE:
 OVERALL PLAN

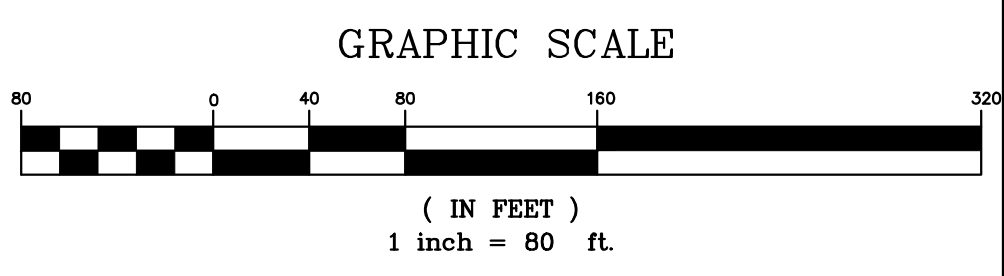
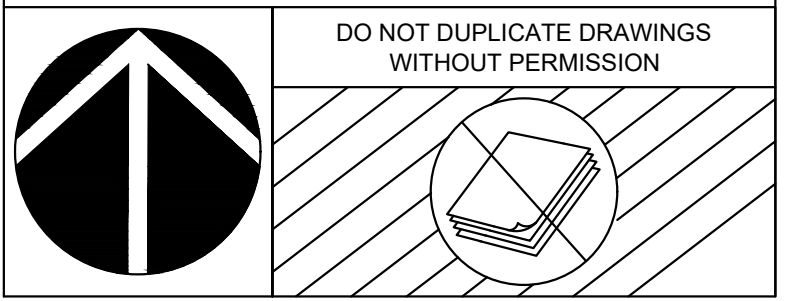
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NF
 STORE MASTER FUNDING XVII, LLC
 PARCEL # 061 008 C
 DB. 649 PG. 169
 PB. 29 PG. 142

EXISTING BUILDING
 FFE: ~448,000

NF
 JOINT DEVELOPMENT AUTHORITY
 OF PEACH COUNTY & THE CITY OF
 WARNER ROBINS
 PARCEL # 061 006
 DB. 583 PG. 429

NF
 JOINT DEVELOPMENT AUTHORITY
 OF PEACH COUNTY & THE CITY OF
 WARNER ROBINS
 PARCEL # 061 006
 DB. 583 PG. 429

NF
 JOINT DEVELOPMENT AUTHORITY
 OF PEACH COUNTY & THE CITY OF
 WARNER ROBINS
 PARCEL # 061 027
 DB. 583 PG. 429

NF
 JOINT DEVELOPMENT AUTHORITY OF PEACH COUNTY
 & THE CITY OF WARNER ROBINS
 PARCEL # 061 026
 DB. 600 PG. 411
 PB. 28 PG. 262

NF
 R C LAND & COMMERCIAL, LLC &
 PURE STACK, LLC
 PARCEL # 061 025
 DB. 600 PG. 411
 PB. 28 PG. 262

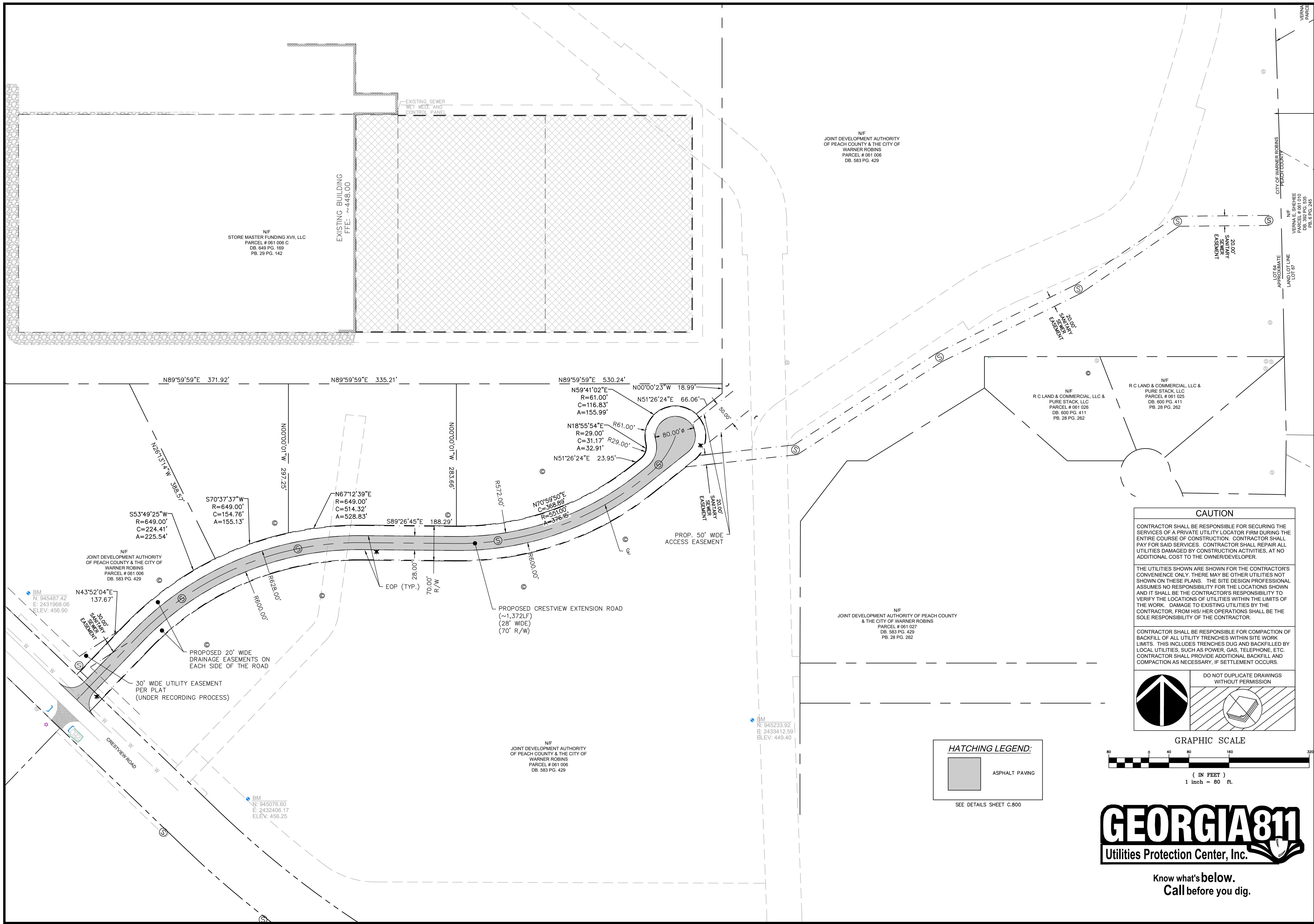
SSMH
 RIM: 437.75
 INV A: 431.45
 INV B: 430.50
 INV C: 430.20

BM
 N: 945487.42
 E: 2431988.06
 ELEV: 456.90

BM
 N: 945233.92
 E: 2433412.59
 ELEV: 449.40

BM
 N: 945076.60
 E: 2432406.17
 ELEV: 456.25

SSMH
 RIM: 456.76
 INV A: 450.26
 INV B: 450.21



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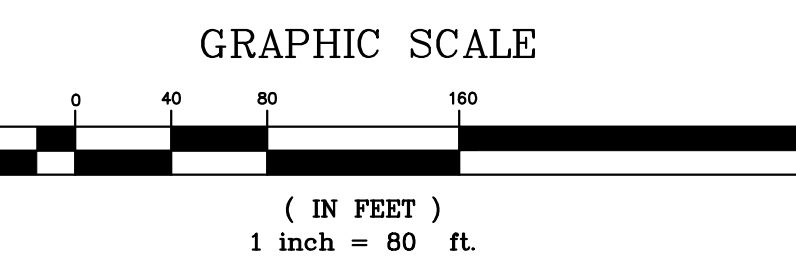
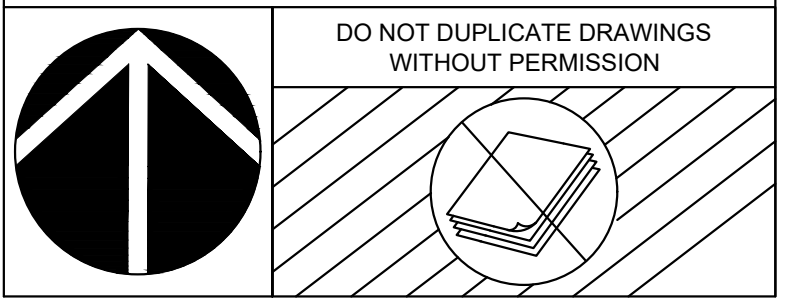
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HATCHING LEGEND:

	ASPHALT PAVING
--	----------------

SEE DETAILS SHEET C.800

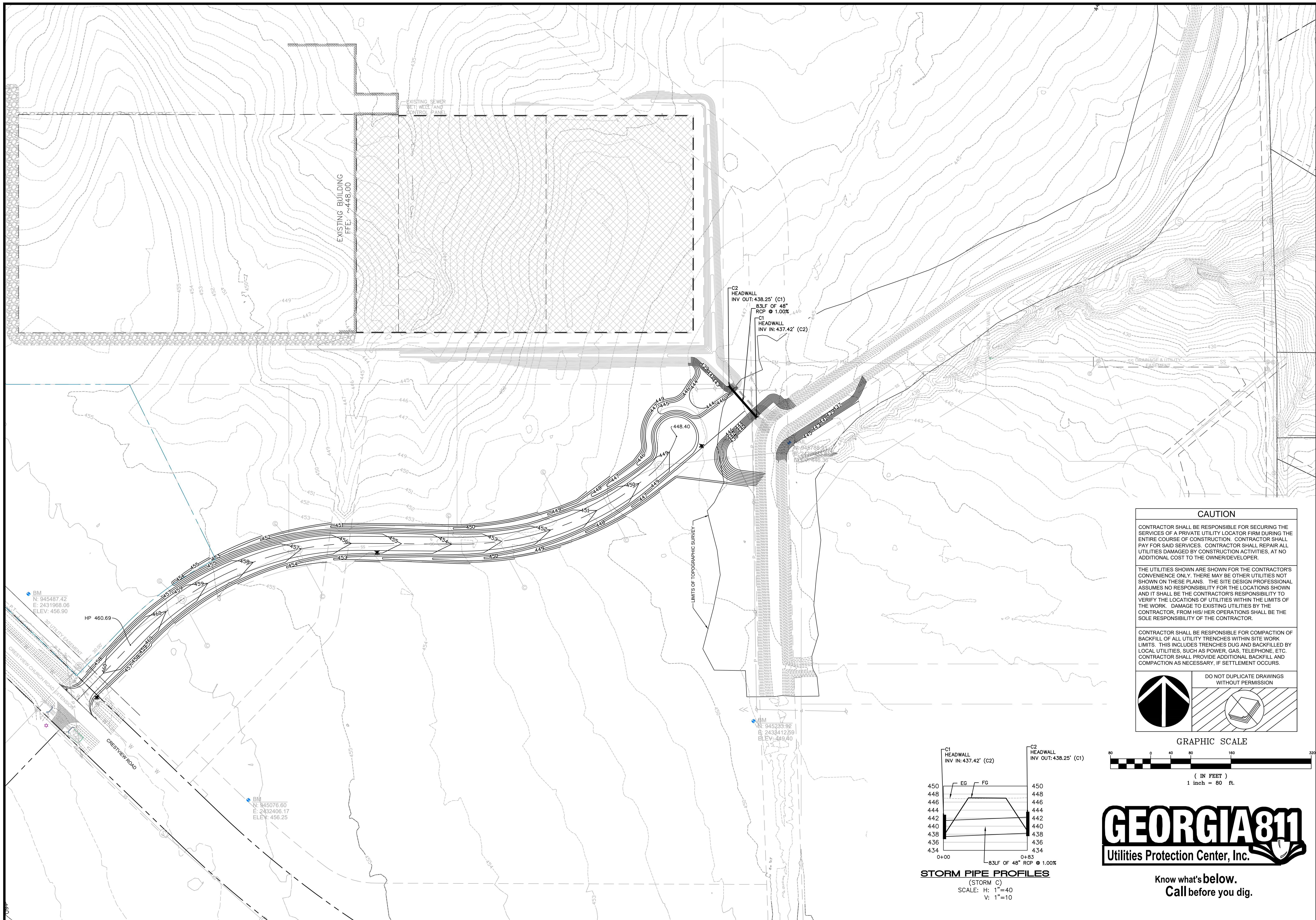


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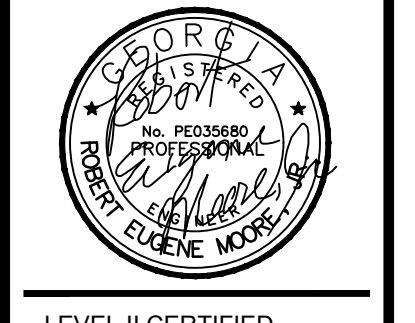
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 CRESTVIEW CHURCH ROAD EXTENSION
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SHEET TITLE:
 SITE LAYOUT PLAN

SHEET NUMBER:
C.200



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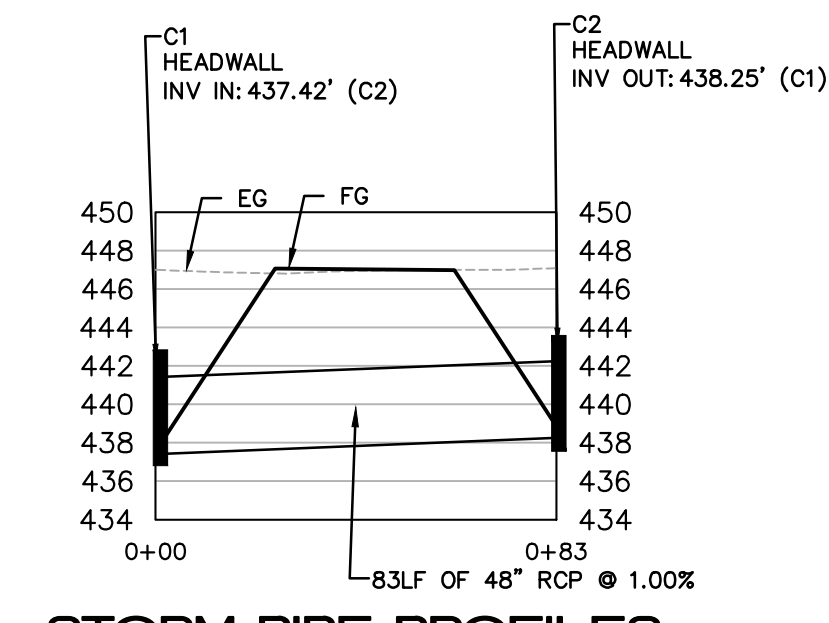
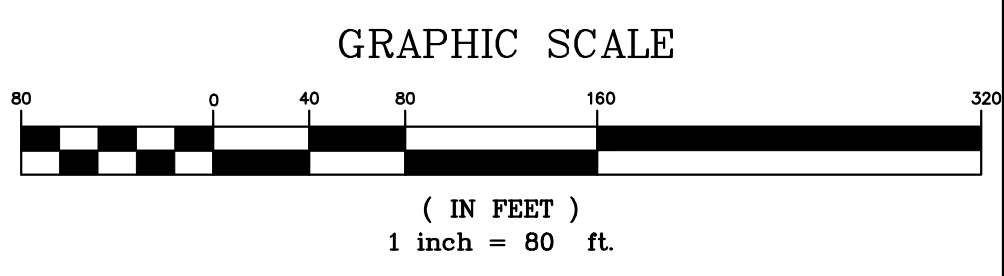
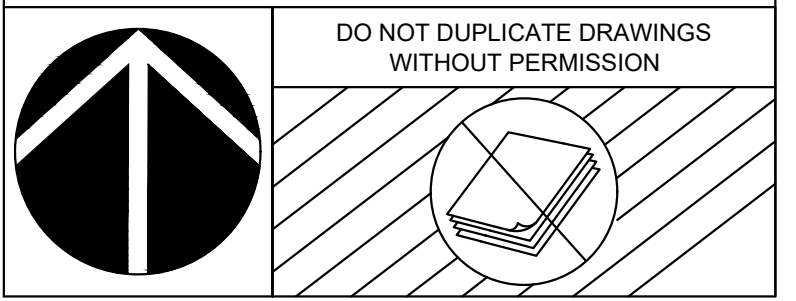
03/02/23	1ST LDP SUBMITTAL
04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

CAUTION

CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SERVICES OF A PRIVATE UTILITY LOCATOR FIRM DURING THE ENTIRE COURSE OF CONSTRUCTION. CONTRACTOR SHALL PAY FOR SAID SERVICES. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE OWNER/DEVELOPER.

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STORM PIPE PROFILES
 (STORM C)
 SCALE: H: 1"=40
 V: 1"=10



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ROBINS INTERNATIONAL INDUSTRIAL
PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008

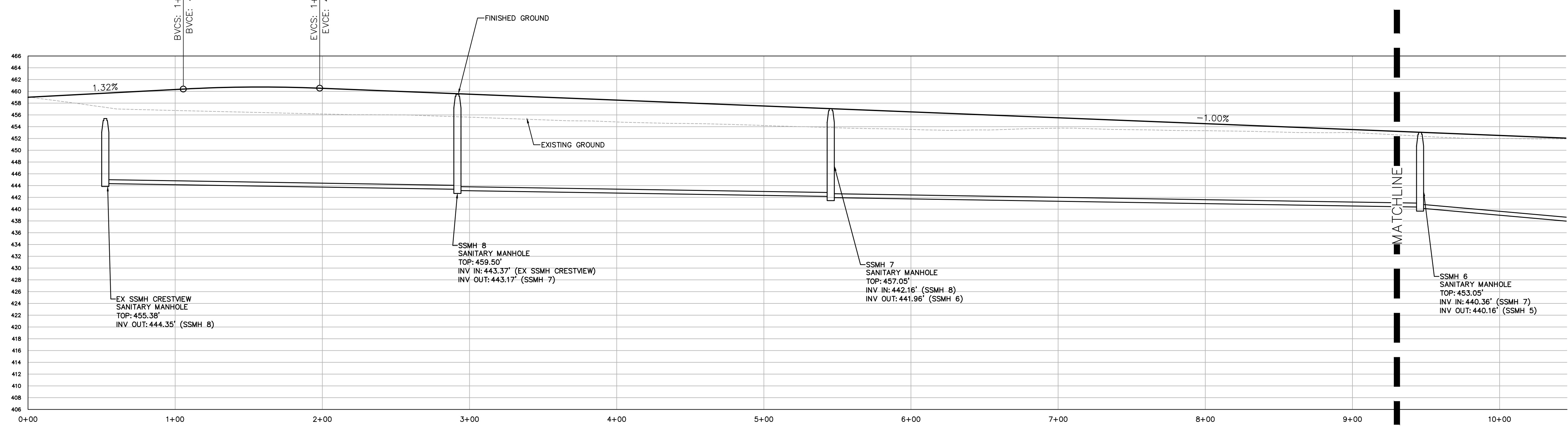
SHEET TITLE:
 GRADING & DRAINAGE
 PLAN

SHEET NUMBER:
C.300

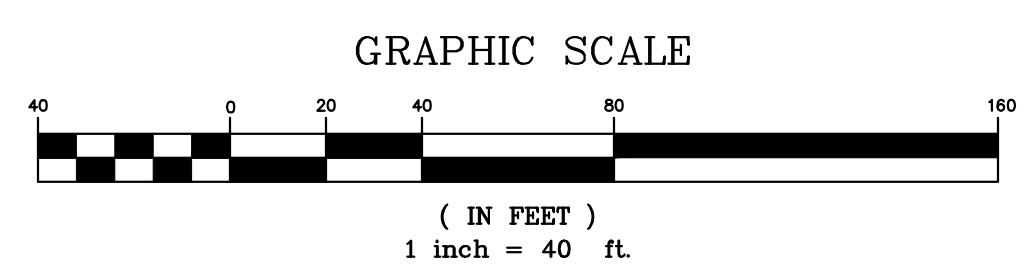
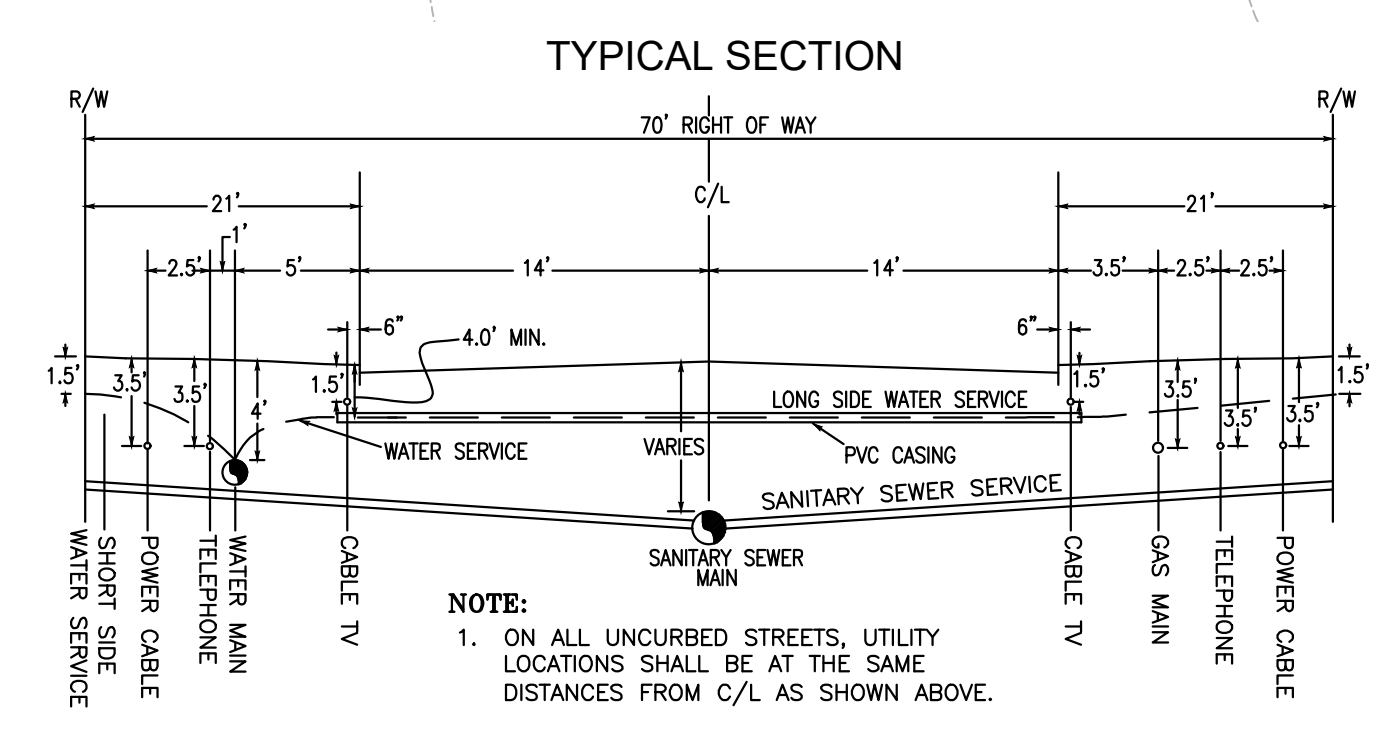


PVI STA: 1+51.91
 PVI ELEV: 461.00
 K: 40.00
 LVC: 92.66

HIGH PT. STA: 1+58.24
 HIGH PT. ELEV: 460.74
 BVCS: 1+05.57
 BVCE: 460.39
 EVCS: 1+98.24
 EVCE: 460.54



DRIVEWAY PROFILES
 (CRESTVIEW EXTENSION DRIVE)
 SCALE: H: 1"=40
 V: 1"=10



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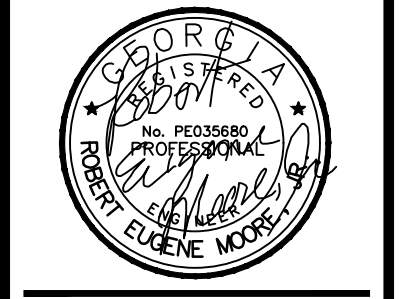
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 478-256-9257

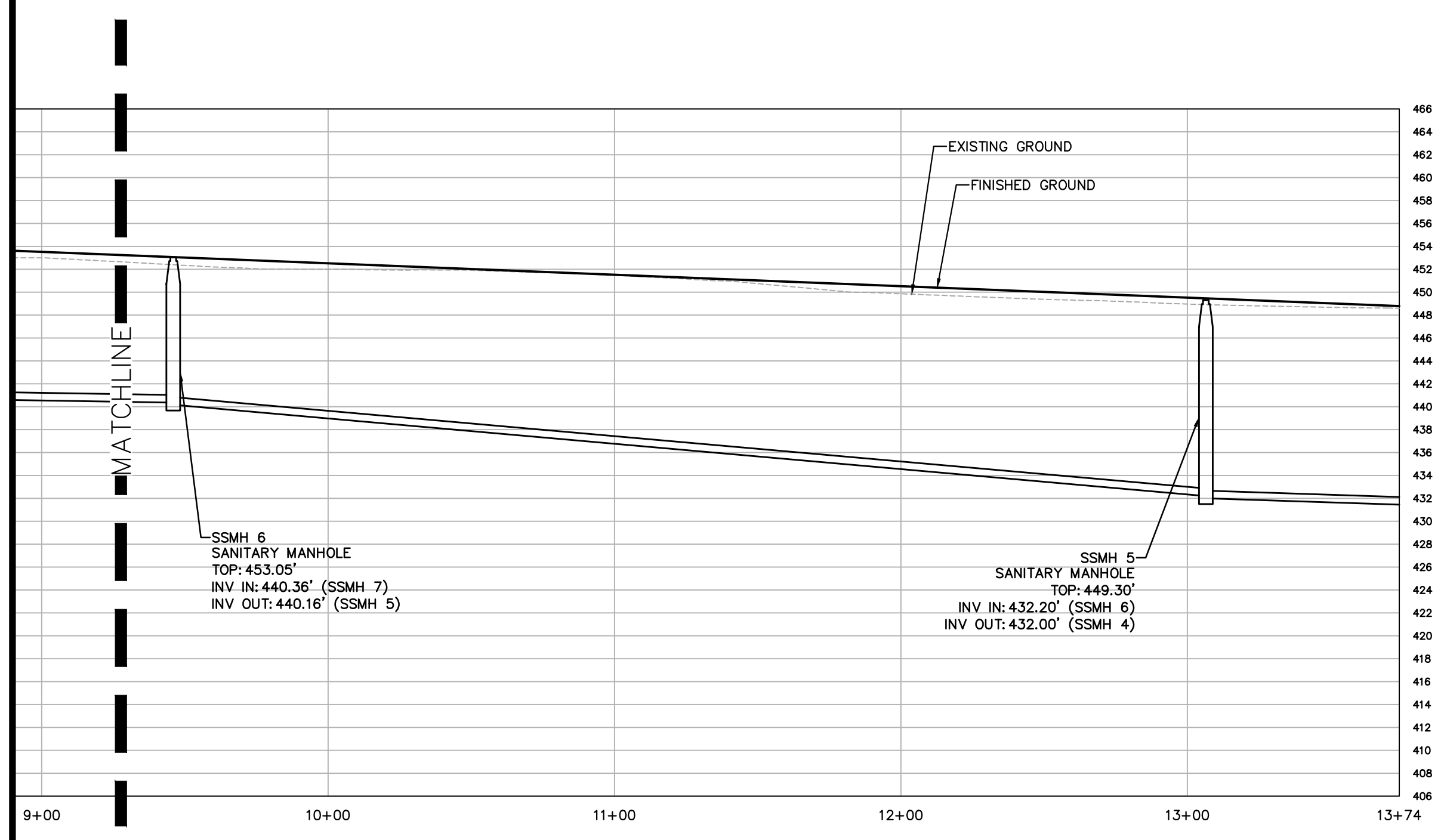
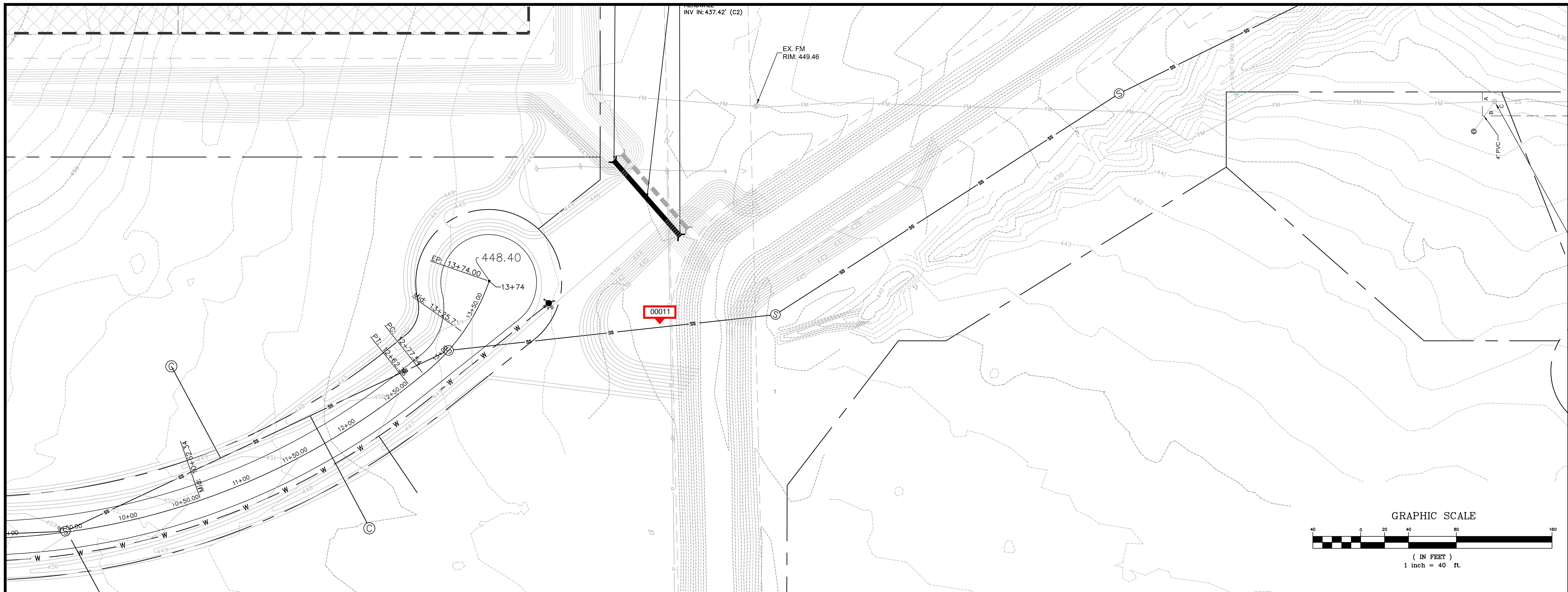
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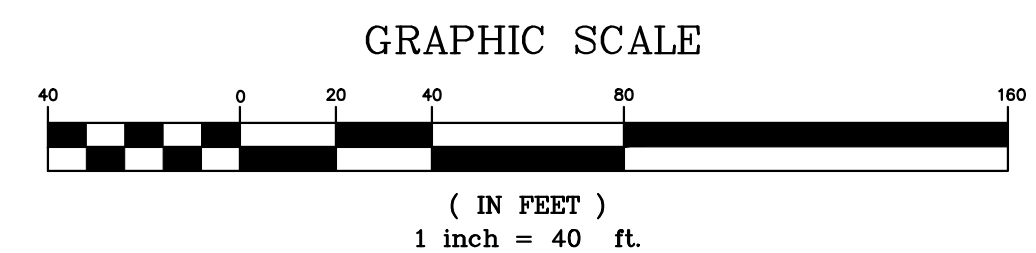
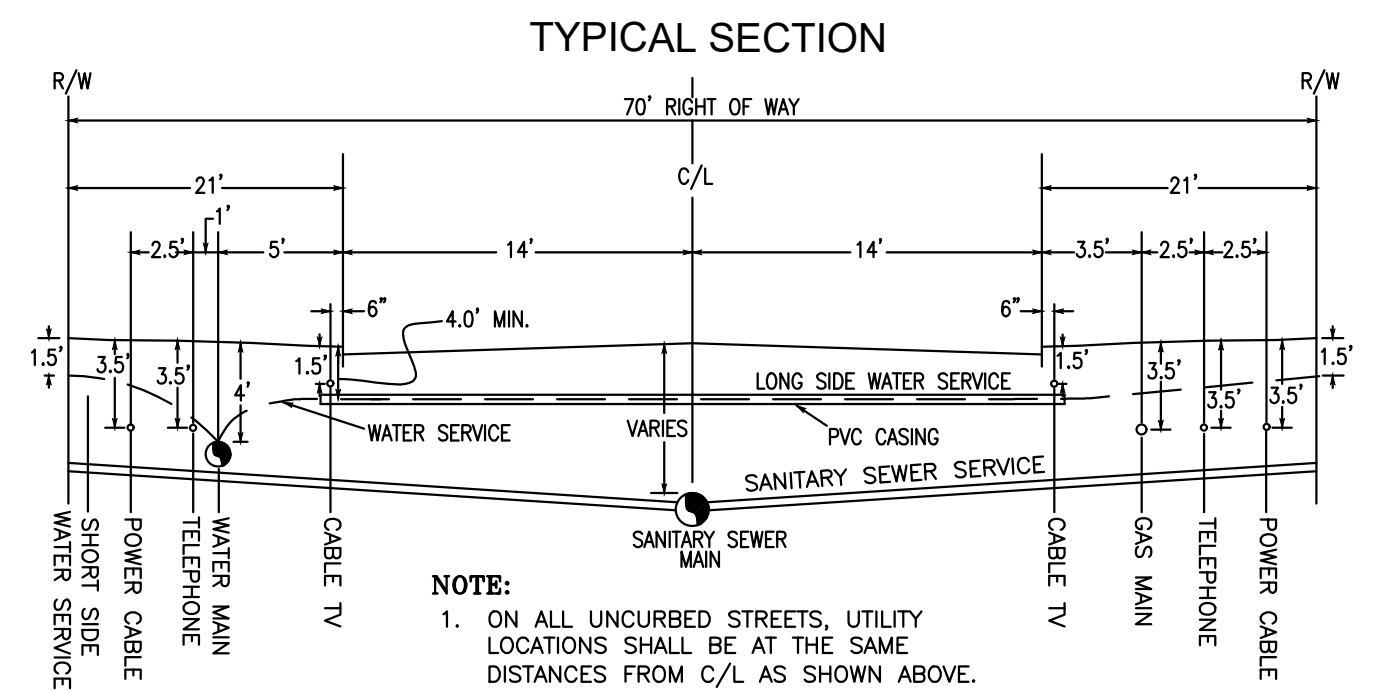
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05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

SHEET TITLE:
 PLAN & PROFILE

SHEET NUMBER:
C.310



DRIVEWAY PROFILES
 (CRESTVIEW EXTENSION DRIVE)
 SCALE: H: 1"=40'
 V: 1"=10'



CAUTION

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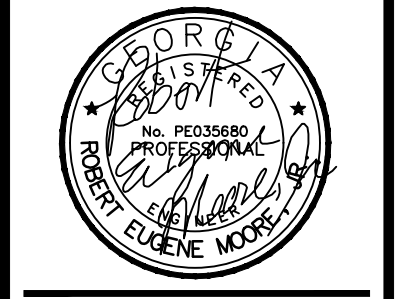
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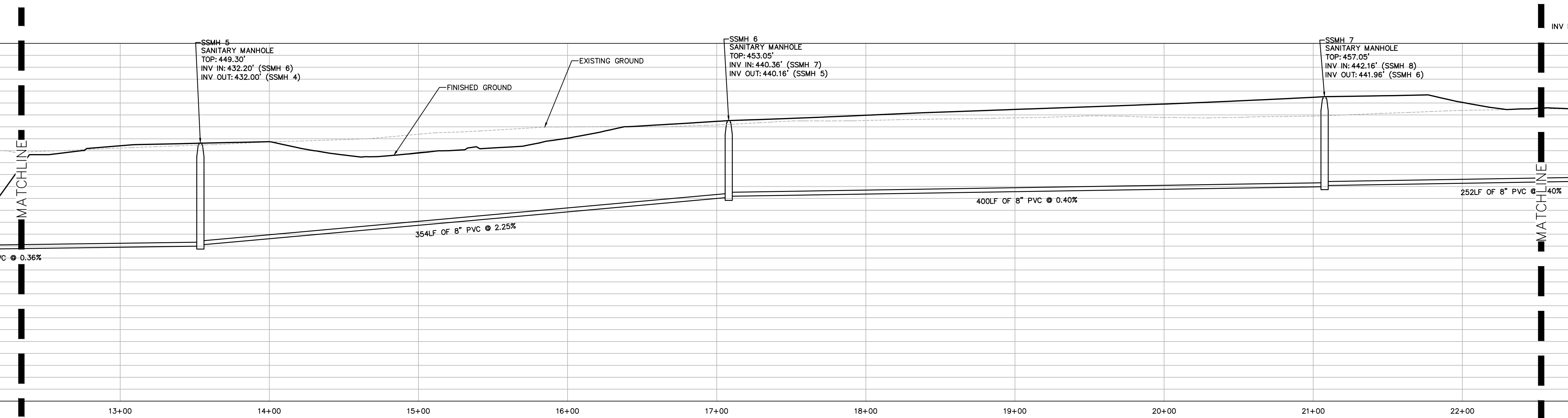
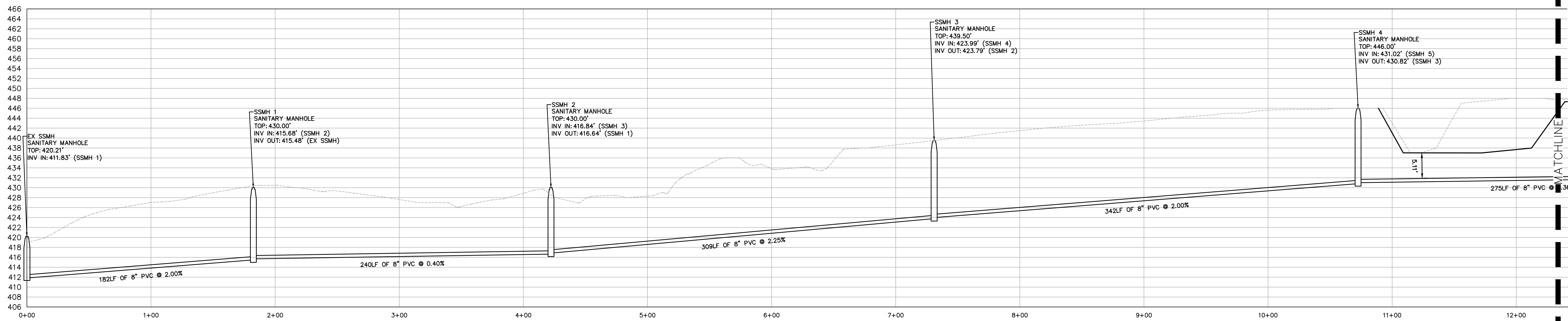
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05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

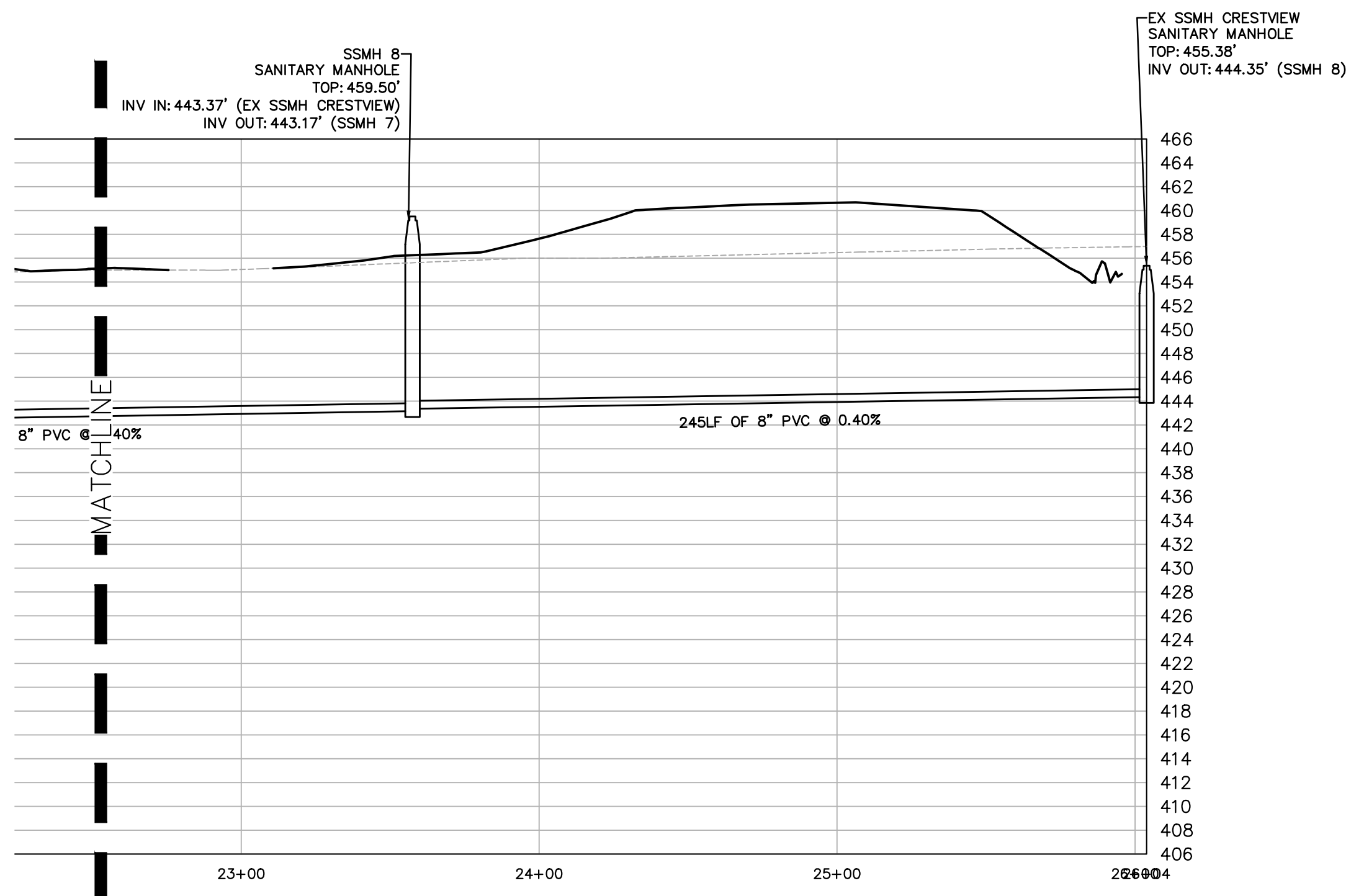
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PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008

SHEET TITLE:
 PLAN & PROFILE

SHEET NUMBER:
C.320



SANITARY PROFILES
(SANITARY SEWER)
SCALE: H: 1"=40'
V: 1"=10'



CAUTION

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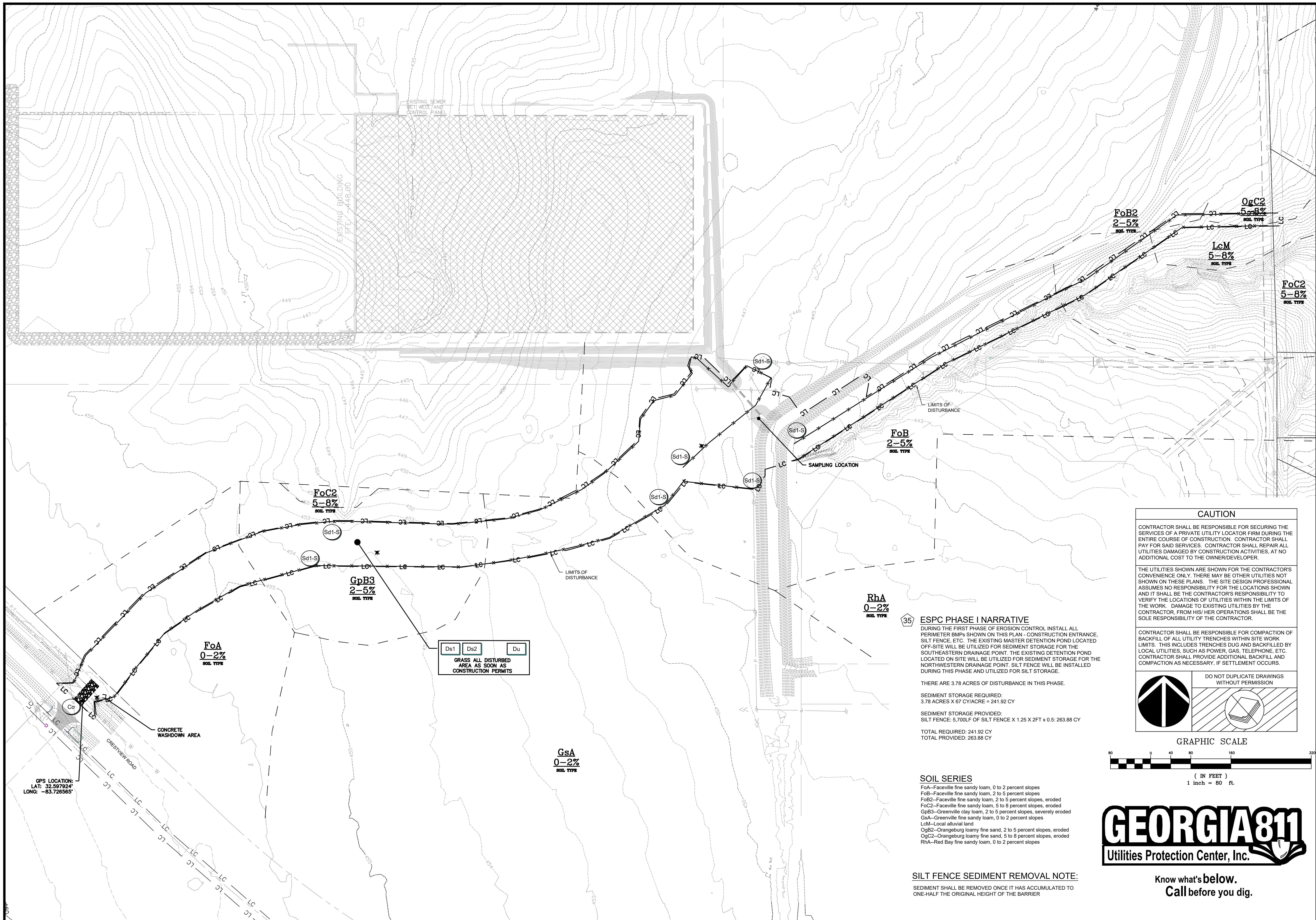
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05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

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WARNER ROBINS, GA 31008

SHEET TITLE:
SANITARY PROFILE

SHEET NUMBER:
C.510



Ds1
Ds2
Du
 GRASS ALL DISTURBED AREA AS SOON AS CONSTRUCTION PERMITS

ESPC PHASE I NARRATIVE

DURING THE FIRST PHASE OF EROSION CONTROL INSTALL ALL PERIMETER BMPs SHOWN ON THIS PLAN - CONSTRUCTION ENTRANCE, SILT FENCE, ETC. THE EXISTING MASTER DETENTION POND LOCATED OFF-SITE WILL BE UTILIZED FOR SEDIMENT STORAGE FOR THE SOUTHEASTERN DRAINAGE POINT. THE EXISTING DETENTION POND LOCATED ON SITE WILL BE UTILIZED FOR SEDIMENT STORAGE FOR THE NORTH-WESTERN DRAINAGE POINT. SILT FENCE WILL BE INSTALLED DURING THIS PHASE AND UTILIZED FOR SILT STORAGE.

THERE ARE 3.78 ACRES OF DISTURBANCE IN THIS PHASE.

SEDIMENT STORAGE REQUIRED:
3.78 ACRES X 67 CY/ACRE = 241.92 CY

SEDIMENT STORAGE PROVIDED:
SILT FENCE: 5,700LF OF SILT FENCE X 1.25 X 2FT X 0.5: 263.88 CY

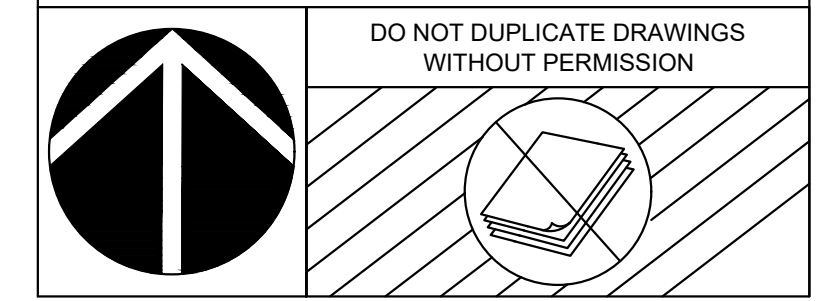
TOTAL REQUIRED: 241.92 CY
TOTAL PROVIDED: 263.88 CY

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SILT FENCE SEDIMENT REMOVAL NOTE:
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER

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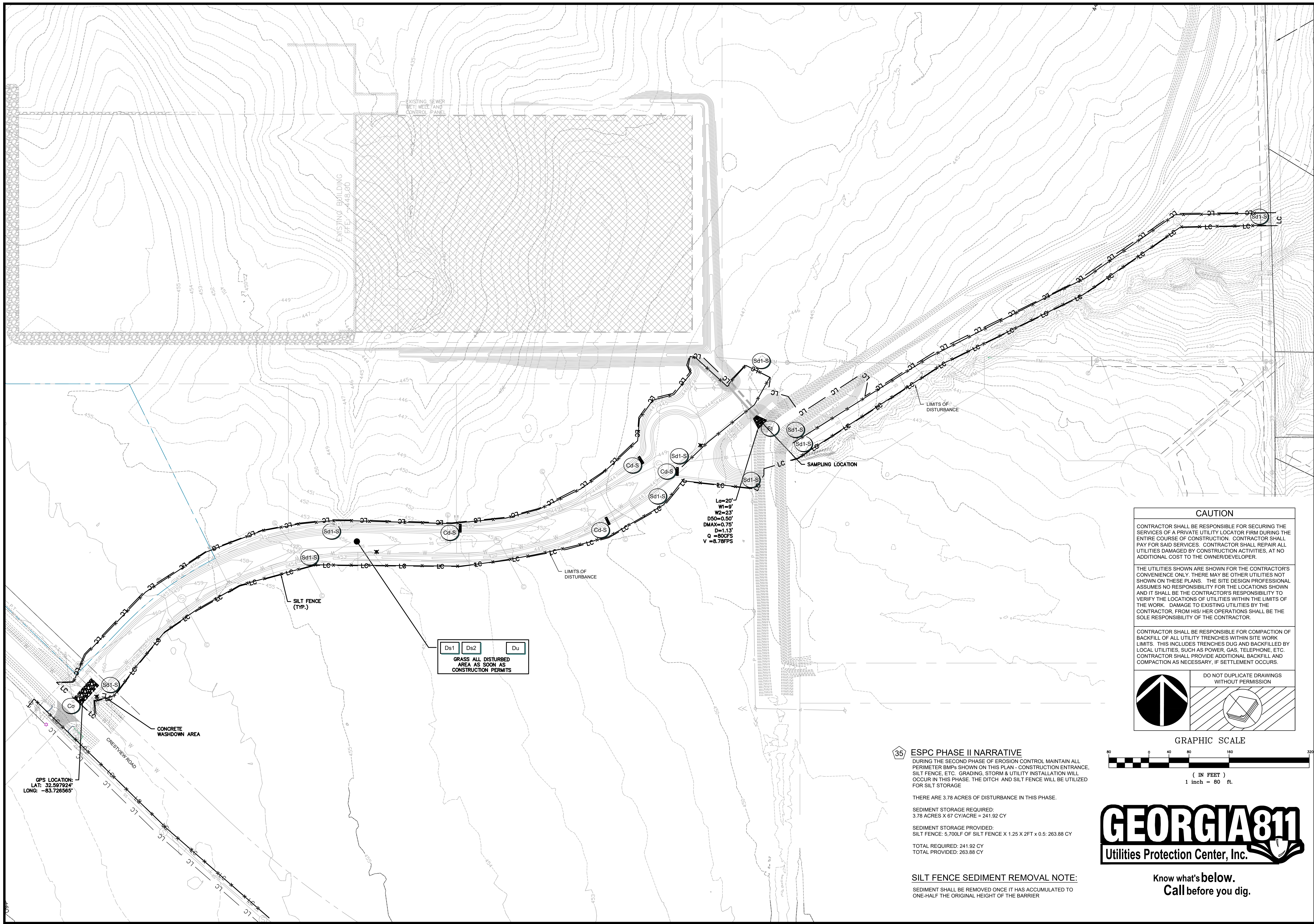
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05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

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CRESTVIEW CHURCH ROAD EXTENSION
WARNER ROBINS, GA 31008

SHEET TITLE:
EROSION CONTROL PHASE I

SHEET NUMBER:
C.610



EXISTING SEWER
WET WELL AND
CONTROL PANEL

EXISTING BUILDING
FTE: 448.00

L₀=20'
W₁=0'
W₂=23'
D₅₀=0.50'
D_{max}=0.75'
Q=1.13'
Q₀=90CFPS
V=8.78FPS

Ds1 Ds2 Du
GRASS ALL DISTURBED
AREA AS SOON AS
CONSTRUCTION PERMITS

CONCRETE
WASHDOWN AREA

SILT FENCE
(TYP.)

LIMITS OF
DISTURBANCE

SAMPLING LOCATION

LIMITS OF
DISTURBANCE

GPS LOCATION:
LAT: 32.59724°
LONG: -83.726565°

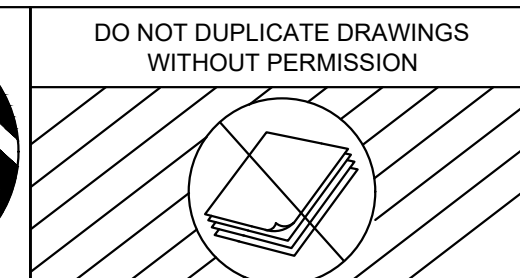
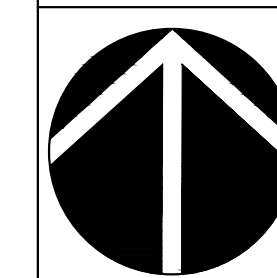
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GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

ESPC PHASE II NARRATIVE
DURING THE SECOND PHASE OF EROSION CONTROL MAINTAIN ALL PERIMETER BMPs SHOWN ON THIS PLAN - CONSTRUCTION ENTRANCE, SILT FENCE, ETC. GRADING, STORM & UTILITY INSTALLATION WILL OCCUR IN THIS PHASE. THE DITCH AND SILT FENCE WILL BE UTILIZED FOR SILT STORAGE

THERE ARE 3.78 ACRES OF DISTURBANCE IN THIS PHASE.

SEDIMENT STORAGE REQUIRED:
3.78 ACRES X 67 CY/ACRE = 241.92 CY

SEDIMENT STORAGE PROVIDED:
SILT FENCE: 5,700LF OF SILT FENCE X 1.25 X 2FT X 0.5: 263.88 CY

TOTAL REQUIRED: 241.92 CY
TOTAL PROVIDED: 263.88 CY

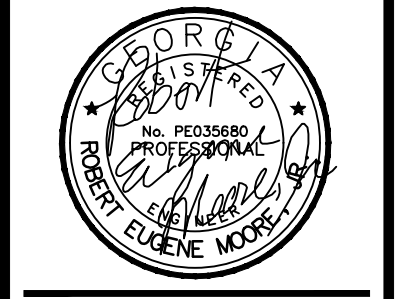
SILT FENCE SEDIMENT REMOVAL NOTE:

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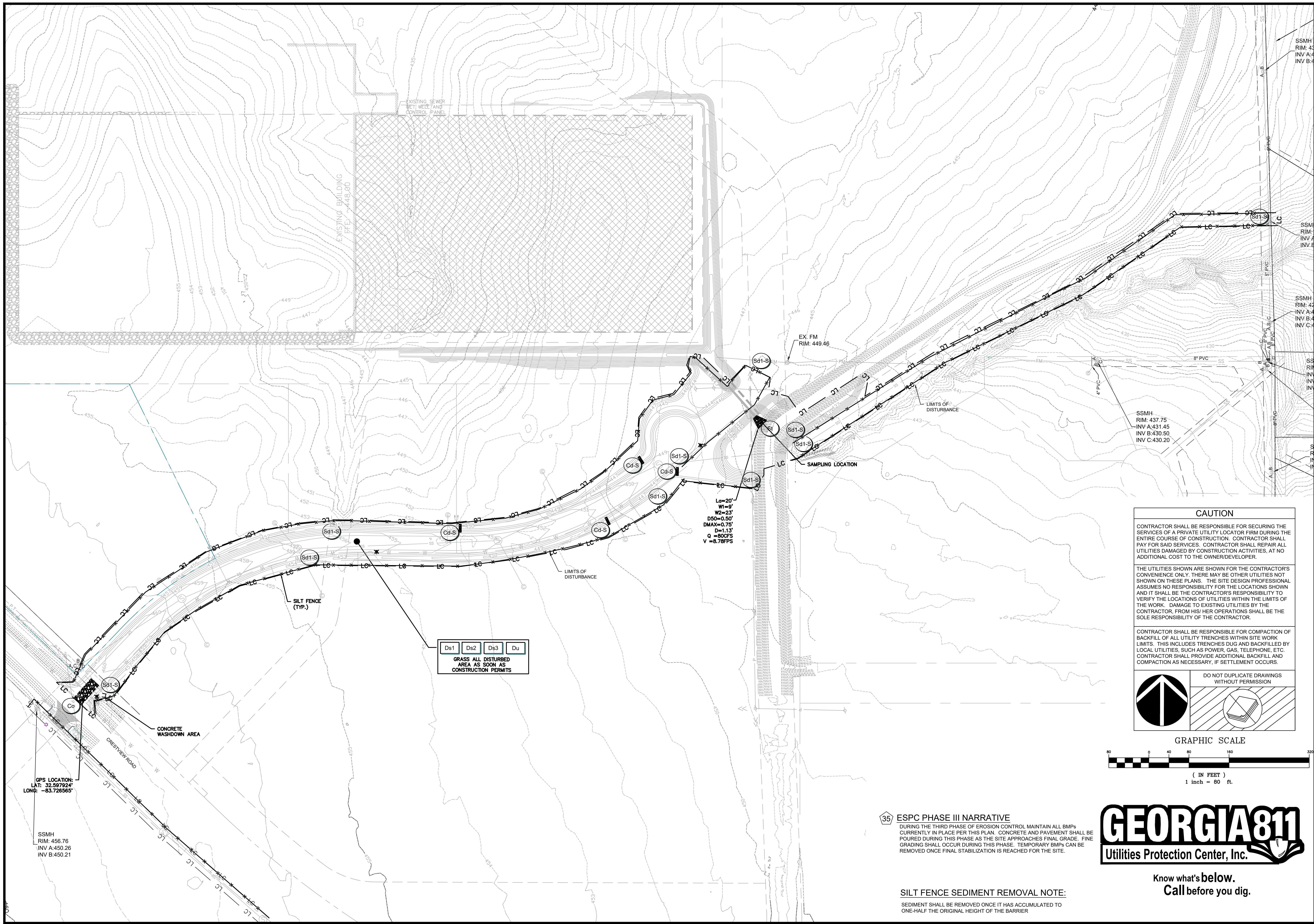
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05/08/23 REV. SITE PLAN
05/19/23 3RD LDP SUBMITTAL

**ROBINS INTERNATIONAL INDUSTRIAL
PARK ROAD EXTENSION**
CRESTVIEW CHURCH ROAD EXTENSION
WARNER ROBINS, GA 31008

SHEET TITLE:
EROSION CONTROL
PHASE II

SHEET NUMBER:
C.620



Ds1 Ds2 Ds3 Du
 GRASS ALL DISTURBED
 AREA AS SOON AS
 CONSTRUCTION PERMITS

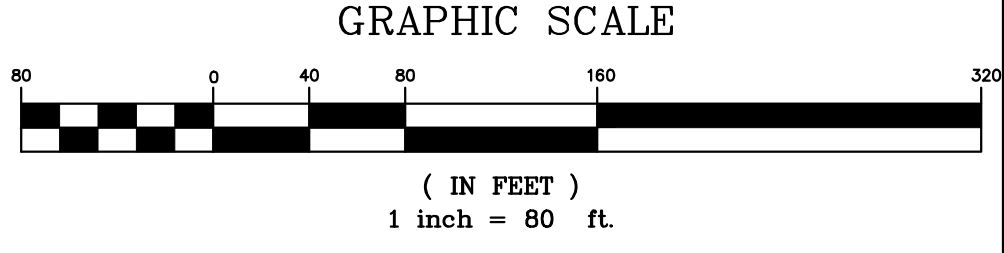
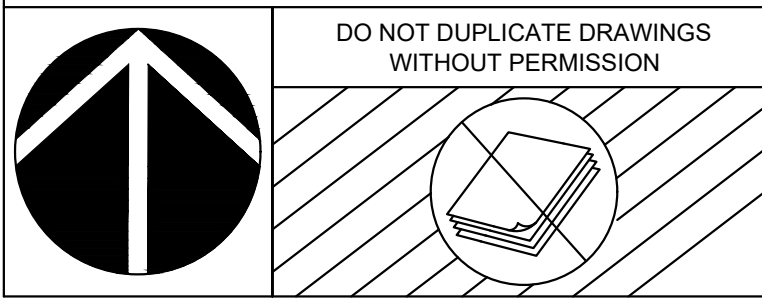
L₀=20'
 W₁=9'
 W₂=23'
 D₅₀=0.50"
 D_{MAX}=0.75"
 Q=1.13"
 Q=90GFS
 V=8.78FPS

CAUTION

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CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION OF BACKFILL OF ALL UTILITY TRENCHES WITHIN SITE WORK LIMITS. THIS INCLUDES TRENCHES DUG AND BACKFILLED BY LOCAL UTILITIES, SUCH AS POWER, GAS, TELEPHONE, ETC. CONTRACTOR SHALL PROVIDE ADDITIONAL BACKFILL AND COMPACTION AS NECESSARY, IF SETTLEMENT OCCURS.



ESPC PHASE III NARRATIVE

DURING THE THIRD PHASE OF EROSION CONTROL MAINTAIN ALL BMPs CURRENTLY IN PLACE PER THIS PLAN. CONCRETE AND PAVEMENT SHALL BE POURED DURING THIS PHASE AS THE SITE APPROACHES FINAL GRADE. FINE GRADING SHALL OCCUR DURING THIS PHASE. TEMPORARY BMPs CAN BE REMOVED ONCE FINAL STABILIZATION IS REACHED FOR THE SITE.

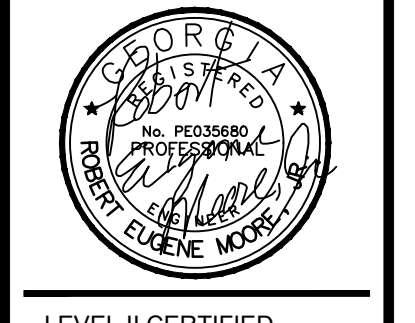
SILT FENCE SEDIMENT REMOVAL NOTE:

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER



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 DESIGN PROFESSIONAL
 GSWOC #0000084090
 EXPIRATION: 05/30/2023

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REVISIONS:

03/02/23	1ST LDP SUBMITTAL
04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

**ROBINS INTERNATIONAL INDUSTRIAL
 PARK ROAD EXTENSION**
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008

SHEET TITLE:
 EROSION CONTROL
 PHASE III

SHEET NUMBER:
C.630

GPS LOCATION:
 LAT: 32.99724°
 LONG: -83.726565°

SSMH
 RIM: 456.76
 INV A: 450.26
 INV B: 450.21

EX. FM
 RIM: 449.46

SSMH
 RIM: 437.75
 INV A: 431.45
 INV B: 430.50
 INV C: 430.20

SSMH
 RIM: 437.75
 INV A: 431.45
 INV B: 430.50
 INV C: 430.20

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

SSMH
 RIM: 429.46
 INV A: 423.46
 INV B: 423.46

1 EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: _____
 Project Name: ROBINS INTERNATIONAL INDUSTRIAL PARK ROAD EXTENSION Address: CRESTVIEW CHURCH ROAD EXTENSION
 City/County: WARNER ROBINS, GA Date on Plans: 04/12/2023
 Name & Email of person filling out checklist: ROBERT MOORE robert@moorecivil.com

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N
C700	Y
ALL	Y
C610	N/A
C700	Y
C100	Y
C700	Y
C610	Y
ALL	Y
C100	Y
C700	Y
C700	Y

C700	Y
N/A	Y
C700	Y
C700	Y

C700	N/A
C700	Y

C700	Y
C700	Y

C700	Y
C700	Y

C700	Y
------	---

C700	Y
------	---

C700	Y
C700	Y

C700	Y
C710	Y
C710	Y

C710	Y
C710	Y
C710	Y

C710	Y
C710	Y

C610-C630	Y
-----------	---

ALL	Y
C610-C630	Y

C720	Y
------	---

C720	N/A
------	-----

C720	N/A
------	-----

C720	N/A
C720	Y

C720	Y
C720	Y

C720	Y
C720	Y

C610-C630	Y
-----------	---

C740	Y
------	---

C730	Y
------	---

- The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
- Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. * (A copy of the written approval by EPD must be attached to the plan for the plan to be approved)
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- Provide the name, address, email address and phone number of primary permittee.
- Note total and disturbed acreage of the project or phase under construction.
- Provide the GPS of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
- Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- Description of the nature of construction activity.
- Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV Page 19 of the permit.
- Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.*
- Clearly note the statement that **"The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."** * in accordance with PARH IV.A5 page 25 of the permit.
- Clearly note the statement that **"Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."**
- Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
- Clearly note the statement that **"Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."** *
- Clearly note the statement that **"Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."**
- Clearly note statement that **"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."**
- Clearly note statement that **"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."**
- Clearly note the statement that **"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."**
- Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biotra Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
- If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
- BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
- Provide BMPs for the remediation of all petroleum spills and leaks.
- Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
- Description of practices to provide cover for building materials and building products on site.*
- Description of the practices that will be used to reduce the pollutants in storm water discharges.*
- Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
- Provide complete requirements of inspections and record keeping by the primary permittee. *
- Provide complete requirements of sampling frequency and reporting of sampling results. *
- Provide complete details for retention of records as per Part IV.F. of the permit. *
- Description of analytical methods used to collect and analyze the samples from each location. *
- Appendix B rationale for NTU values at all outfall sampling points where applicable. *
- Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
- A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For Construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase. *
- Graphic scale and north arrow.
- Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100 ft or larger scale	Flat 0-2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2, 5 or 10

- Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org
- Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
- Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
- Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
- Delineation and acreage of contributing drainage basins on the project site.
- Provide hydrology study and maps of drainage basins for both the pre- and post- developed conditions. *
- An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
- Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- Soil series for the project site and their delineation.
- The limits of disturbance for each phase of construction.
- Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless feasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
- Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
- Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A

Effective January 1, 2023

2

GSWCC
 ROBERT E. MOORE, JR
 0000064090
 LEVEL II CERTIFIED DESIGN PROFESSIONAL

4

OWNER/DEVELOPER
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 AUTHORITY OF PEACH COUNTY &
 THE CITY OF WARNER ROBINS
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 UNIT B
 FORT VALLEY, GA 31030
 CONTACT: BJ WALKER
 PHONE: 478-256-9257

24 HR CONTACT:
 BJ WALKER
 Phone: (478) 256-9257

6 TOTAL IMPERVIOUS AREA = **±1.06 AC.**

FINAL DISTURBANCE AREA = **±3.78 AC.**

TOTAL SITE AREA- ±369.61 AC.

5 OWNER/PRIMARY PERMITTEE:
 JOINT DEVELOPMENT AUTHORITY OF PEACH COUNTY
 AND THE CITY OF WARNER ROBINS
 425 JAMES E. KHOURY DRIVE, UNIT B
 FORT VALLEY, GA 31030
 CONTACT: BJ WALKER
 PHONE: 478-825-3826
 EMAIL: bufordwalker3@gmail.com

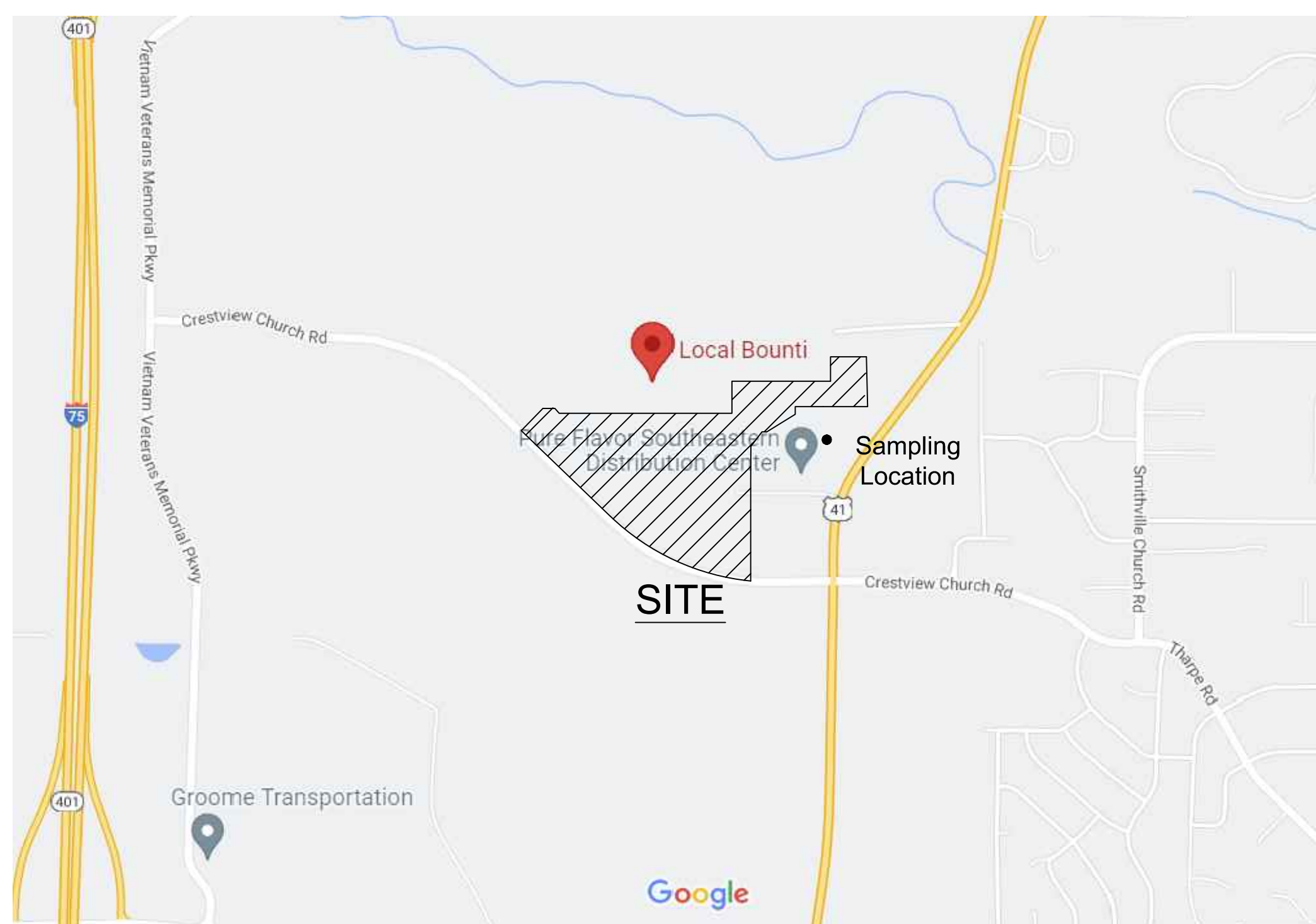
8 SITE DESCRIPTION AND LOCATION:

LOCATION: LAND LOT 64, 5TH G.M. DISTRICT
 WARNER ROBINS, PEACH COUNTY, GEORGIA

CRITICAL AREAS:

THIS PROJECT INVOLVES THE CONSTRUCTION OF A 2,410LF EXTENSION ROAD THAT CONNECTS TO CRESTVIEW CHURCH ROAD AND A SANITARY SEWER EXTENSION IN WARNER ROBINS, GA. THE EXISTING LOT IS A GRASSED LOT WITH A FEW TREES THAT DRAINS TO THE SOUTHEAST OF THE SITE INTO AN EXISTING CANAL THAT DRAINS TO A MASTER STORMWATER DETENTION POND BEFORE DISCHARGING TO A TRIBUTARY OF DRY RUN CREEK.

CRITICAL AREAS ARE FILL SLOPES ADJACENT TO THE EXISTING DITCH.



LOCATION MAP (N.T.S.)

The project will be developed and constructed in one phase

11 RECEIVING WATERS

RUNOFF DRAINS TO THE SOUTHEAST OF THE SITE INTO AN EXISTING DITCH THAT DRAINS TO A TRIBUTARY OF DRY RUN CREEK. THERE ARE NO STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE.

12 "I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision"

13 "I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit NO. GAR 100001."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verifies perennial and intermittent streams and other water bodies, or (b) where any specific identified all perennial and intermittent streams and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100001, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

Robert Eugene Moore, Jr.
 SIGNATURE OF PLAN PREPARER
 04/12/2023
 DATE

14 7-DAY VISIT STATEMENT

"The primary permittee must retain the design professional who prepared the Erosion, Sedimentation and Pollution Control Plan, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days after installation

15 Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

16 No buffer encroachments are part of this project.

NPDES NOTES

17 Amendments/ revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."

18 "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."

19 "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

20 "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."

"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

22 The construction activities will not discharge storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biotra Impaired Stream Segment, therefore there will be no need for a TMDL Implementation Plan for sediment.

24 CONCRETE WASHOUT

IT IS PROHIBITED TO WASHOUT THE DRUM OF CONCRETE TRUCK ON SITE. SEE DETAILS SHEET FOR BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLE ONLY.

25 A. Best management practices for prevention of petroleum spills:

- All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.
- Petroleum products will be stored in tightly sealed containers that are clearly labeled.
- Any petroleum to be stored in tanks will have be surrounded by an earthen berm as a secondary protective measure.
- Any Asphalt substances used onsite will be applied according to the manufacturer's recommendations.
- Contractors and subcontractors are responsible for inspecting their equipment and providing necessary maintenance to eliminate petroleum spills.

BMPs for the remediation of all petroleum spills and leaks.

- Local, state and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
- Materials and equipment necessary for spill cleanup will be kept in the material storage areas. typical materials and equipment includes, but is not limited to brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust, and properly labeled plastic and metal waste containers.
- Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, state, and federal regulations.
- The contractor shall notify the licensed professional who prepared this plan if more than 1,320 gallons of petroleum is stored onsite (this includes capacities for equipment) or if any one piece of equipment has a countermeasures plan prepared by that licensed professional.
- For spills that impact surface water (leave a sheen on surface water), the National Response Center (NRC) will be contacted within 24 hours at 1-800-424-8802.
- For spills of an unknown amount, the National Response Center (NRC) will be contacted within 24 hours at 1-800-424-8802.
- For spills greater than 25 gallons and no surface water impacts, the Georgia Environmental Protection Division (EPD) will be contacted within 24 hours.
- For spills less than 25 gallons and no surface water impacts, the spill will be cleaned up and local agencies will be contacted as required.

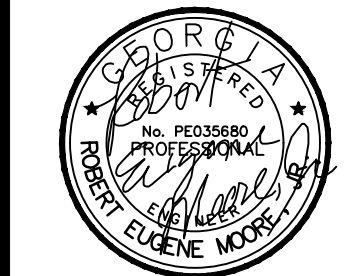
26 THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

After site construction, stormwater runoff from this development will drain to the existing canal. The existing canal routes runoff to the existing master detention pond located offsite. The runoff passing through the water quality onifice on the outlet control structure will provide filtration to reduce pollutants. Onsite BMPs from the GSWMM installed to treat water quality will help control pollutants during construction as well as after construction operations have been completed.

27 DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE.

During site construction, building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste will be COVERED WITH PLASTIC SHEETING to minimize exposure to precipitation and to stormwater.

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**ROBINS INTERNATIONAL INDUSTRIAL
 PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008**

SHEET TITLE:
 NPDES NOTES

SHEET NUMBER:
C.700

28 DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.

During Site construction all storm water will be routed through the BMP's shown on the phased erosion control plans to reduce pollutant (Suspended Solids and sediment) in the storm water discharge from the site provided all the general measures are taken into account.

- Prior to land-disturbing activities, the contractor shall schedule a pre-construction meeting with the area erosion control inspector.
- Any disturbed area left idle for a period greater than 14 days shall be stabilized with temporary seeding; disturbed areas idle 30 days shall be stabilized with permanent vegetation.
- Erosion and sediment control measures shall be inspected at least weekly, after each rain, and repaired as necessary.
- Additional erosion and sediment control measures shall be installed if determined necessary by on-site inspection.
- Silt fence shall meet the requirements of section 171 - type C temporary silt fence, of the Georgia department of transportation standard specifications (qualified products list #36) and be wire reinforced.
- A haul route permit is required when more than 500 cubic yards of hauled volume to or from the site. plans must include a statement indicating whether or not a haul route permit is required.

		GENERAL CONSTRUCTION SCHEDULE																					
		BEGIN CONSTRUCTION	MARCH 2020																				
			MONTH 1											MONTH 2									
PHASE I (INITIAL)	1	INSTALL SEDIMENT CONTROL DEVICES	•••••																				
	2	CLEARING, DEMO AND GRADING	•••••																				
	3	TEMPORARY GRASSING																					
PHASE II (INTER.)	4	MAINTAIN EROSION CONTROL DEVICES	•••••																				
	5	GRADING																					
PHASE III (FINAL)	6	ASPHALT - BUILDING																					
	7	FINAL AND PERMANENT GRASSING																					
	8	CLEAN UP																					

30 Provide complete requirements of inspections and record keeping by the primary permittee.

PERMITTEE REQUIREMENTS.

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or State of Georgia Page 32 of 46 Department of Natural Resources Permit No. GAR100001 Environmental Protection Division any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

31 Provide complete requirements of sampling frequency and reporting of sampling results.

Sampling Requirements.

This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity for this site

Sampling Requirements shall include the following:

- (1) A USGS topographic map was used to locate all perennial and intermittent streams and other water bodies as shown on a USGS topographic map as well as all the receiving water from the site
- (2) A USGS topographic map was used to determine the sampling locations.
- (3) All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

SAMPLE POINT
LOCATION: EAST SIDE OF SITE
Size of construction area = 3.51 AC.
Total drainage basin to sample point = 12.84 AC.
Disturbed area within basin = 3.51 AC.
Size of Surface Water Drainage area = 12.84 AC
Receiving Stream : DRY RUN CREEK

- (5). Permittee must provide any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal
- (6) Sample containers should be labeled prior to collecting the samples, and should be well mixed before transferring to a secondary container, all sample bottles shall be Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- (7). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.
- (8). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

32 Provide complete details for retention of records as per Part IV.F. of the permit.

- 1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
 - a. A copy of all Notices of Intent submitted to EPD;
 - b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
 - c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
 - d. A copy of all sampling information, results, and reports required by this permit;
 - e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
 - f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
 - g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit.
- 2. Each secondary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
 - a. A copy of all Notices of Intent submitted to EPD;
 - b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit or the applicable portion of the Erosion, Sedimentation and Pollution Control Plan for their activities at the construction site required by the permit.
 - c. A copy of all inspection reports generated in accordance with Part IV.D.4.b. of this permit;
 - d. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit.
- 3. Each tertiary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
 - a. A copy of all Notices of Intent submitted to EPD;
 - b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
 - c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
 - d. A copy of all sampling information, results, and reports required by this permit;
 - e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
 - f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
 - g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit.
- 4. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

34 Appendix B rationale for NTU values at all outfall sampling points where applicable.

		APPENDIX B NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES WARM WATER (SUPPORTING WARM WATER FISHERIES)							
		SURFACE WATER DRAINAGE AREA, SQUARE MILES							
		0-4.99	5-9.9	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

31 Sampling Frequency:

- (1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.
- (2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
- (3) Sampling by the permittee shall occur for the following qualifying events:
 - (a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all cleaning and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
 - (b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
 - (c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;
 - (d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
 - (e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

Reporting:

- 1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C, by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
- 2. All sampling reports shall include the following information:
 - a. The rainfall amount, date, exact place and time of sampling or measurements;
 - b. The name(s) of the certified personnel who performed the sampling and measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The name(s) of the certified personnel who performed the analyses;
 - f. References and written procedures, when available, for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
 - h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
 - i. Certification statement that sampling was conducted as per the Plan.
- 3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

35 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. See sheet C.610, C.620, and C.630.

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 EXPIRATION: 05/30/2023

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03/02/23	1ST LDP SUBMITTAL
04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

**ROBINS INTERNATIONAL INDUSTRIAL
 PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008**

SHEET TITLE:
 NPDES NOTES

SHEET NUMBER:
C.710

40 Use of alternative BMPs for application to the Equivalent BMP List, Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.

N/A for this site, however for a BMP to be considered for inclusion on the Equivalent BMP List, the Design Professional must complete the current process for Alternative BMPs as outlined by GSWCC Guidance on at least three completed projects where EPD's Notice of Termination Form has been filed.

The following steps are required

- Provide pre-notice to EPD and GSWCC of the intent to apply for an Alternative BMP to be included on the Equivalent BMP List as follows:
 - Specify on the required checklist that accompanies the Notice of Intent Form that the project includes an Alternative BMP that will be included on an Application for the Equivalent BMP List
 - Inform GSWCC of the intent to apply by sending a digital copy of the approved ES&PC Plan and a copy of the above to GSWCC when the NOI is filed with EPD
- Once the project involving the Alternative BMP has been completed and a Notice of Termination Form for the project has been filed, submit to GSWCC the following:
 - An Application to be on the Equivalent BMP List and a sample of the BMP.
 - Three sets-- one for each time the Alternative BMP was used in three separate projects-- of the required documentation to use the Alternative BMP, based on the current approval process as outlined by GSWCC Guidance. Evidence of repeatable bench and field testing must be included as part of this documentation. Only approved ASTM standards will be accepted for repeatable bench testing; working test methods will not be accepted.
 - Three sets-- one for each time the Alternative BMP was used in three separate projects-- of the Notice of Termination form for each project involving the Alternative BMP.
 - A certification Form signed by two individuals -- a level II certified Design Professional and a level I A or Level I B Certified Personnel-- who evaluated the BMP's performance in the field stating that the Alternative BMP performed as expected throughout the life of each of the three projects.
 - Three sets of installation photos -- one for each time the Alternative BMP was used-- of the Alternative BMP utilized in the three projects.
 - Three sets of after-storm event photos-- one for each time the Alternative BMP was used-- of the Alternative BMP utilized in the three projects.
 - Any post-storm event inspection records as well as inspection and enforcement records made by any federal, state, or local regulatory agency related to this specific BMP on this project.

The above materials should be submitted to GSWCC both electronically and with hard copies to P.O. Box 8024, Athens, Georgia 30603. GSWCC will provide copies of the materials submitted to EPD and GDOT upon receipt. GSWCC will receive and review the information submitted above. GSWCC has the discretion to approve the application, deny the application, request a resubmittal, or request additional information, with consultation from EPD and GDOT. Applicants will be informed of GSWCC's determination in writing. Applicants receiving approval for inclusion on the Equivalent BMP List will be notified within 90 days. Applicants with BMPs denied from inclusion on the Equivalent BMP List may seek review of the GSWCC's determination from the GSWCC State Board.

41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

THERE ARE NO STATE WATERS ON OR WITHIN 200' OF THIS SITE.

42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.

There are no on-site wetlands located within the stream bank within 200 feet of the project site. There are no State waters located on and within 200 feet of the project site.

43 Delineation and acreage of contributing drainage basins on the project site.

44 Refer to HYDRO STUDY for delineation and acreage of contributing drainage basins within and off-site the project.

45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

RUNOFF COEFFICIENT

WEIGHTED PRE-CONSTRUCTION CURVE NUMBER (CN): 55

WEIGHTED POST-CONSTRUCTION CURVE NUMBER (CN): 85

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

Refer to SHEETS (C620) " Intermediate ES&PC PLAN for location and sizing table from all storm water discharge points located within the project.

47 Soil series for the project site and their delineation.

Refer to sheet C610 "Initial ES&PC Plan for Soil series delineation and classification

48 The limits of disturbance for each phase of construction.

Total area = 3.51 AC.
Disturbance area = 3.51 AC.

49 Sediment basin requirement and Justification to use equivalent controls when a sediment basin is not attainable for this project

Sediment Storage will be provided by silt fences and the 80 acre offsite detention pond in Phases 1, 2 and 3.

39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional

N/A for this site, however if any BMPs have proven not to function properly and the need for an alternative BMP is arisen, the following procedures documented below should be followed by the Design Professional

Use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the Georgia soil and Water Conservation Commission).

Required documentation for alternative BMPs:

- One page summary detailing why the alternative BMP is equivalent or superior to the conventional BMPs found in the "Manual for Erosion and Sedimentation Control in Georgia" (manual).
- Documented side by side testing (alternative BMP vs. conventional BMP) using the appropriate design requirements and specifications contained in the Manual.
- Proof that the alternative BMP was previously installed and worked under conditions comparable to the environmental conditions of the proposed site. This can be documented with photographs.
- All specifications including the design requirements and the procedures for proper installation and maintenance.

All forms of documentation must be signed and certified by the Design Professional who is preparing the ES&PC Plan and must include the Design Professional's seal and GSWCC design Professional certification.

50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	DEEDAW			A small temporary barrier or dam constructed across a wash, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A gravelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM CHANNEL			A temporary channel constructed to convey flow around a construction site with a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and impermeable.
Dn2	PERMANENT DOWNDRAN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainage ways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spp	SEEP BEAM			A linear control device constructed as a diaphragm perpendicular to the direction of runoff to enhance dispersion and infiltration, while creating multiple sedimentation chambers, with the employment of intermediate dikes.

GSWCC (Amended - 2013)

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (It may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	WEEDED WATERWAY OR STORMDRAIN CONTAINANCE CHANNEL			Paved or vegetative water outlets for ditches, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation, or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH SEEDING)			Planting vegetation on dunes that are degraded, artificially constructed, or re-mounded.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH MULCH AND SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH MULCH AND SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	RESTORED AREA STABILIZATION (WOODING)			A permanent vegetative cover on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Ca	FLOCCULANTS AND COAGULANTS			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Sb	STREAMBANK STABILIZATION (WITH VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

Refer to Sheets C740-C750" STRUCTURAL EROSION DETAILS " for detailed drawings for all structural practices that meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Refer to Sheet C740, " VEGETATIVE EROSION DETAILS " for all vegetative plan noting all temporary and permanent vegetative practice including species, planting dates and seeding, fertilize, lime and mulching rates.



LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC #0000084090 EXPIRATION: 05/30/2023

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05/19/23 3RD LDP SUBMITTAL

ROBINS INTERNATIONAL INDUSTRIAL
PARK ROAD EXTENSION
CRESTVIEW CHURCH ROAD EXTENSION
WARNER ROBINS, GA 31008

SHEET TITLE:
NPDES NOTES

SHEET NUMBER:
C.720

MATERIAL	QUANTITY
DRY STRAW OR HAY	2" - 4" DEPTH
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" - 3" DEPTH
CUTBACK ASPHALT (SLOW CURING)	1200 GAL. PER ACRE (1/4 GAL. PER SQ. YD.)
POLYETHYLENE FILM	COMPLETELY COVERING EXPOSED AREA. TRENCHED IN AT OUTER EDGES.

STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. MULCH MAY BE ANCHORED BY MECHANICALLY PRESSING INTO SURFACE. IF SPREAD WITH BLOWER EQUIPMENT, MULCH SHALL BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1)-100 GAL. ASPHALT + 100 GAL. WATER PER TON OF MULCH. NETTING SHALL BE USED TO ANCHOR WOOD WASTE AND CHIPS. POLYETHYLENE SHALL BE TRENCHED IN AT EDGES.

DS1 MULCHING

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPAION CROPS 1/

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
BARLEY (Hordeum vulgare)	3 bu. (104 lbs.) 10 bu. (328 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	14,000 seed per pound. (Wetlands, Use on productive soils)
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
TOURNEFORTIA (Tournefortia bicolor)	4 bu. (128 lbs.) 28 bu. (856 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	1,000,000 seed per pound. May volunteer for several years. Use on wet soils.
MILLET BROWSTOP (Panicum polyanthemum)	40 bu. (1,280 lbs.) 10 bu. (328 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	137,000 seed per pound. Quick cover over 100 days. No much competition in mature stands at high rates.

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPAION CROPS 1/

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
MILLET PEAN (Pennisetum glaucum)	50 bu. (1,500 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	80,000 seed per pound. Quick cover over 100 days. Not in height. Not recommended for hybrids.
GRASS (Avena sativa)	4 bu. (128 lbs.) 1 bu. (32 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	13,000 seed per pound. Use on productive soils. Not as winter-hardy as sorghum.
RYE (Secale cereale)	3 bu. (96 lbs.) 10 bu. (320 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	18,000 seed per pound. Quick cover. Drought-tolerant and winter-hardy.
LESPEDEZA ANNUAL (Lespedeza bicolor)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	227,000 seed per pound. Dense cover. May volunteer for several years. Use on wet soils.
SUDANGRASS (Sorghum sudanense)	50 bu. (1,500 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	55,000 seed per pound. Good on drought-prone soil. Recommended for hybrids.

PLANT, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPAION CROPS

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
WHEAT (Triticum aestivum)	3 bu. (96 lbs.) 10 bu. (320 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	18,000 seed per pound.

1/ Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily.
2/ Reduce seeding rates by 50% when eroded.
3/ PLS is an abbreviation for Pure Live Seed.
4/ Propagules for Disturbance Resistant (DR).

DS2 STABILIZATION WITH TEMPORARY SEEDING

TYPE OF SPECIES	YEAR	Fertilizer Requirements		N TOP DRESSING RATE
		ANALYSIS OR EQUIVALENT N-P-K	RATE	
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2'
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	30
	Second	10-10-10	1300 lbs./ac. 3/	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21-grm pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	30 lbs./ac. 5/
	Maintenance	0-10-10	700 lbs./ac. 4/	
	Second	10-10-10	500 lbs./ac.	
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/8'
	Second	6-12-12	800 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 1/8'
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
COLEA, BERGAMOT (Clematis vitalba)	10 bu. (300 lbs.) 10 bu. (300 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	100,000 seed per pound. Low ground cover. Use on productive soils. Use on wet soils.
TOURNEFORTIA (Tournefortia bicolor)	40 bu. (1,280 lbs.) 10 bu. (328 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

Species	Broadcast Rates 2/	Resource Area 4/	Planting Dates by Resource Areas	Planting Dates	Remarks
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.
LESPEDEZA ANNUAL (Lespedeza sativa)	40 bu. (1,280 lbs.)	P	J F M A M J J A S O N D	J F M A M J J A S O N D	200,000 seed per pound. May volunteer for several years. Use on wet soils.

DS3 STABILIZATION WITH PERMANENT VEGETATION

APPROPRIATE SOD VARIETIES FOR MACON

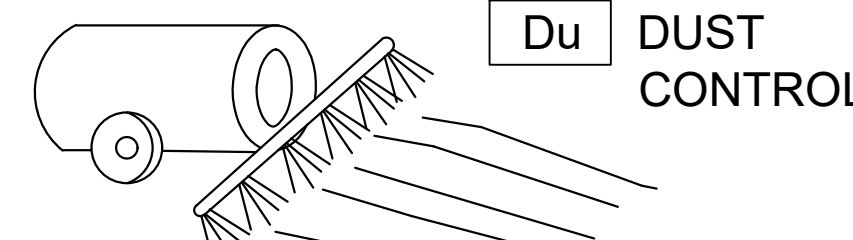
GRASS	VARIETY	GROWING SEASON
BERMUDA	COMMON TIFWAY TIFGREEN, TIFLAWN	WARM WEATHER
BAHIA	PENSACOLA	WARM WEATHER
CENTPEDE	---	WARM WEATHER
ZOYSIA	EMERALD MEYERWARM WEATHER	
TALL FESCUE	KENTUCKY	COOL WEATHER

SOIL PREPARATION
BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOIL.
MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR GENERAL APPLICATION OF 10-10-10 @ 1000 LBS PER ACRE (1 LB /40 SQ. FT.) AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS / ACRE.

GRASS TYPE	PLANTING YEAR	FERTILIZER (NPK)	RATE (LBS/ ACRE)	NITROGEN TOP DRESSING (LBS/ ACRE)
COOL SEASON GRASSES	1ST MAINTENANCE	6-12-12	1500	50-100
	2ND MAINTENANCE	6-12-12	1000	---
WARM SEASON GRASSES	1ST MAINTENANCE	6-12-12	1500	50-100
	2ND MAINTENANCE	6-12-12	400	30

DS4 STABILIZATION WITH SODDING

DUST CONTROL



TEMPORARY METHODS
MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

VEGETATIVE COVER - SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS.

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS. SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS
PERMANENT VEGETATION. SEE STANDARD DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.

STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

VEGETATION NOTES

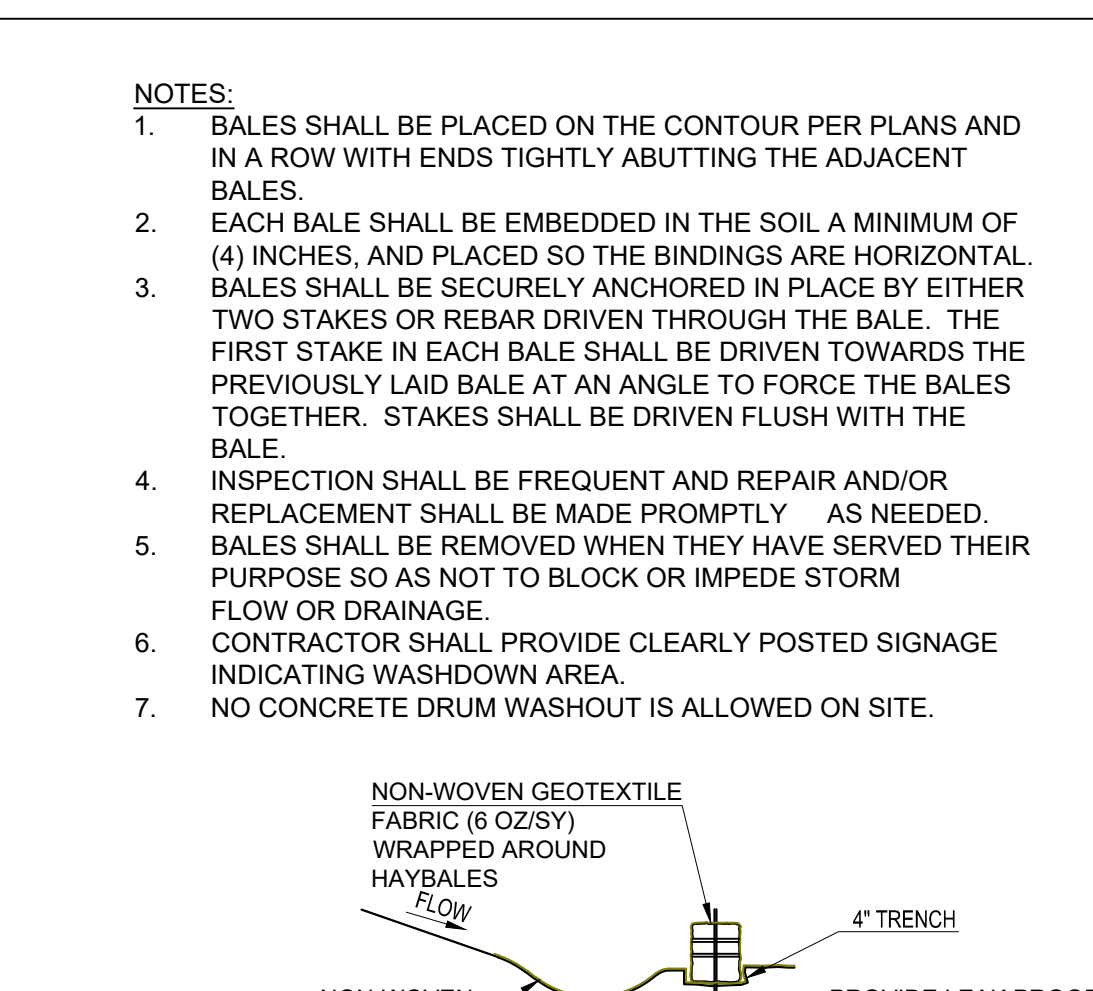
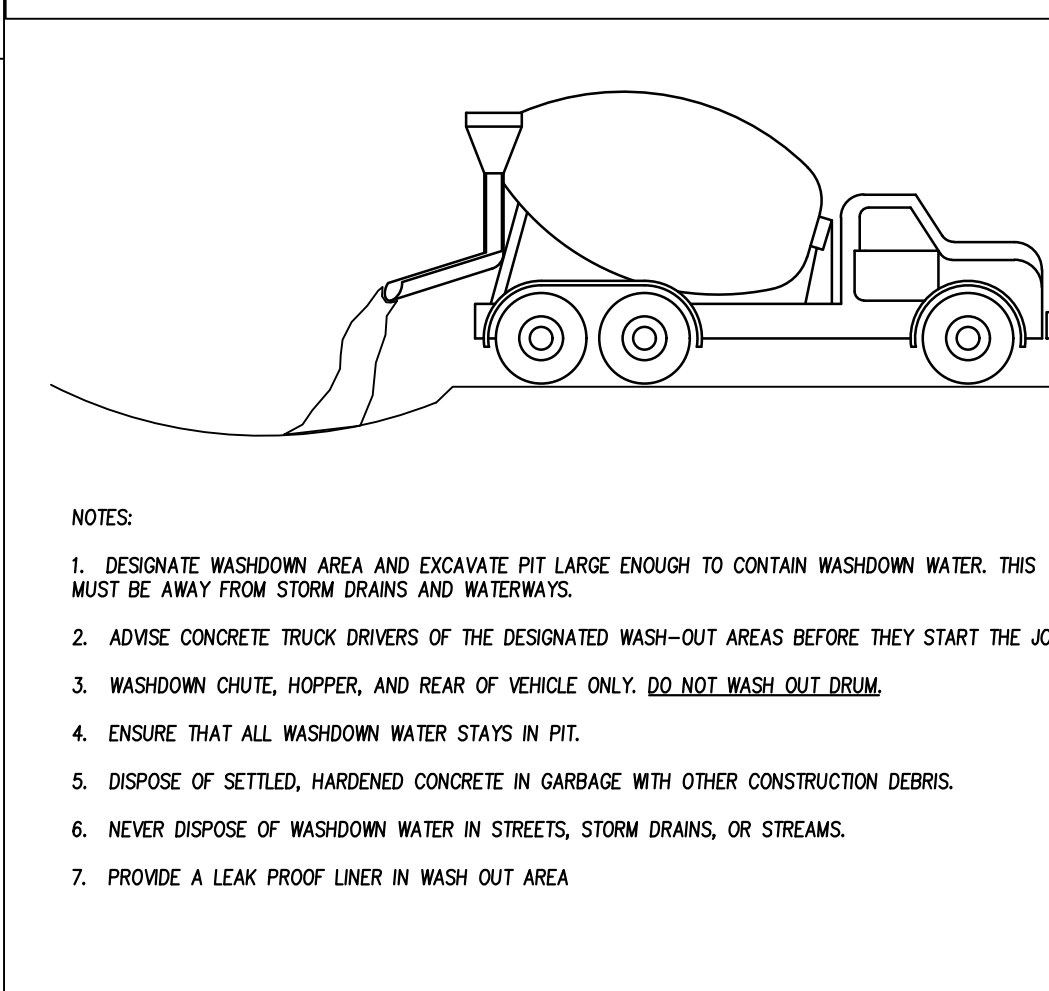
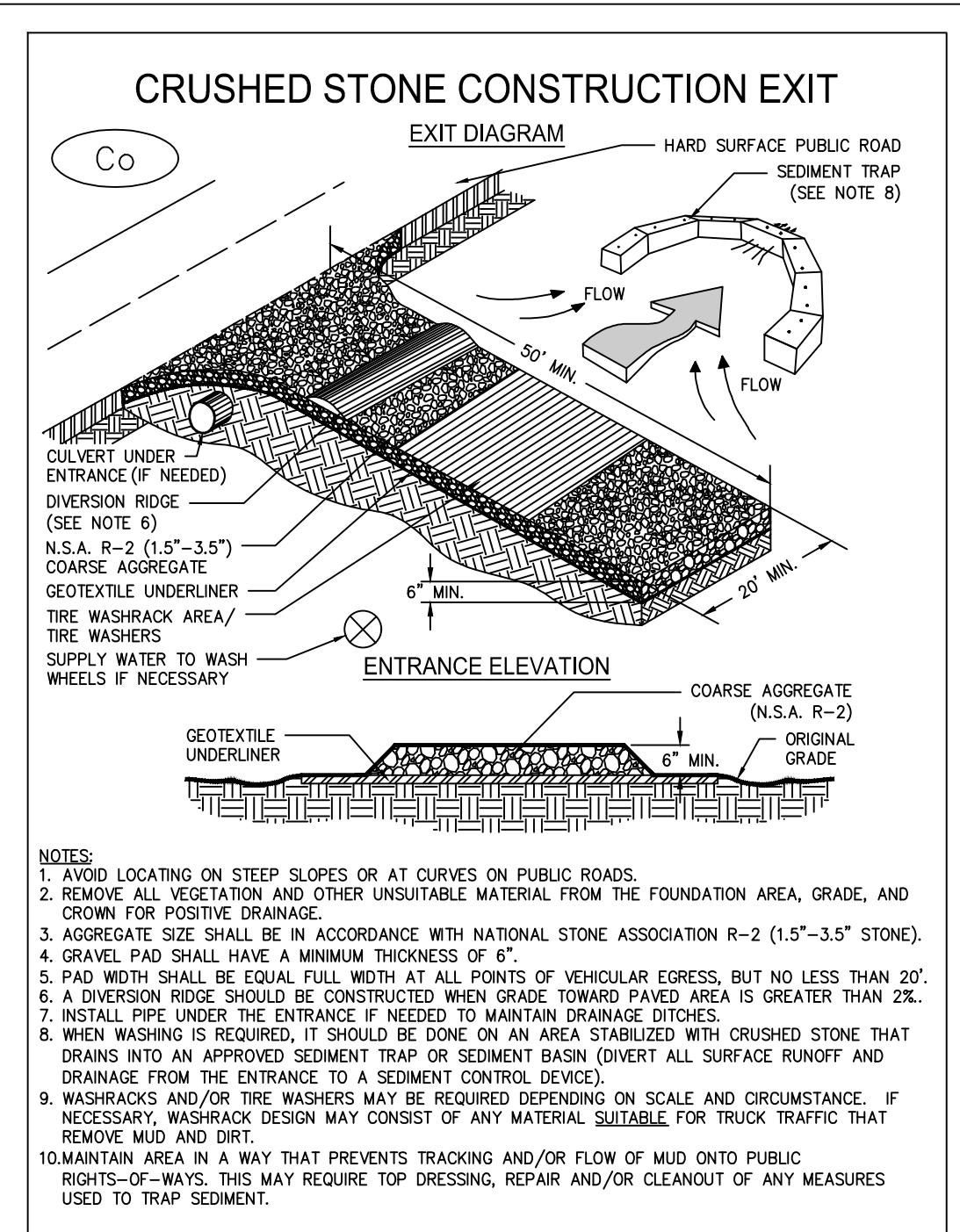
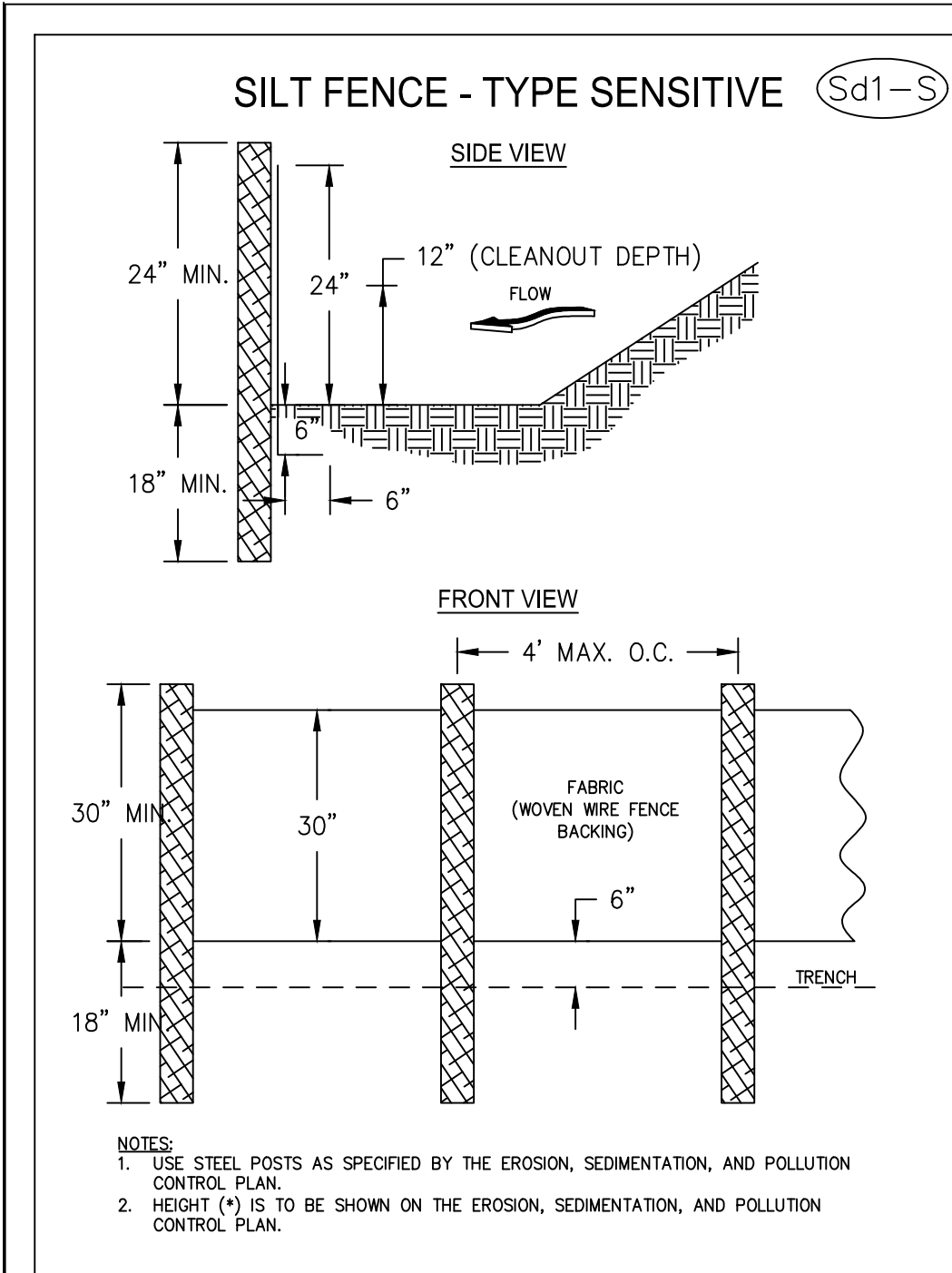
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING, MULCH CAN BE USED AS A SINGLE EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. REFER TO SPECIFICATION DS1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER (TEMPORARY VEGETATION, DS-2)
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED ON REASONABLY FERTILE SOILS OR SOIL MATERIAL. FERTILIZER IS NOT REQUIRED FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

LIME AND FERTILIZER RATES AND ANALYSIS (PERMANENT VEGETATION, DS-3)
AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE. INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1.

MULCHING
MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:
1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.
4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED.
THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.



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LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWDC #000004000
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REVISIONS:
03/02/23 1ST LDP SUBMITTAL
04/12/23 2ND LDP SUBMITTAL
05/08/23 REV. SITE PLAN
05/19/23 3RD LDP SUBMITTAL

ROBINS INTERNATIONAL INDUSTRIAL PARK ROAD EXTENSION
CRESTVIEW CHURCH ROAD EXTENSION
WARNER ROBINS, GA 31008

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C.730



LEVEL II CERTIFIED
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 GSWDC #00000084090
 EXPIRATION: 05/30/2023

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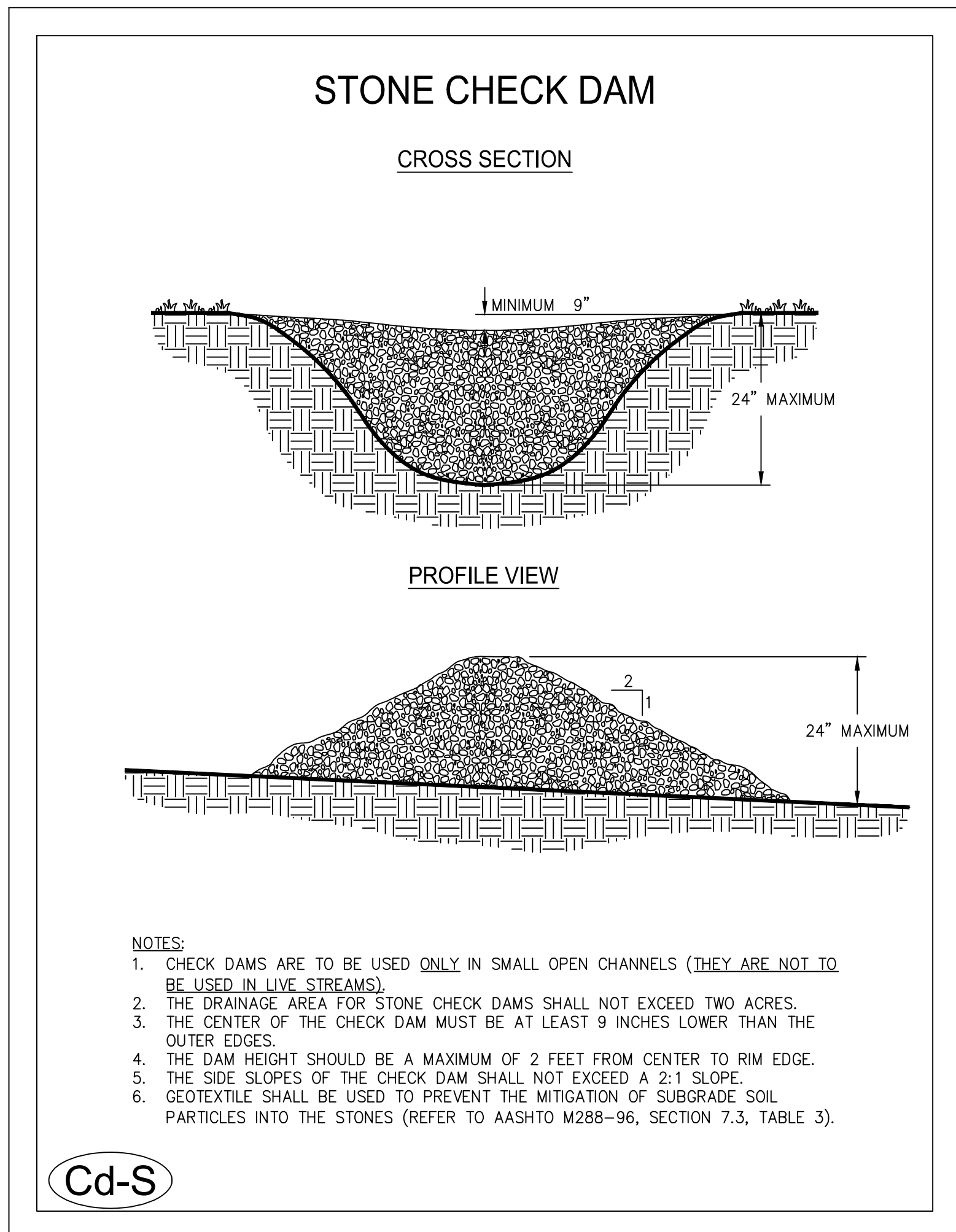
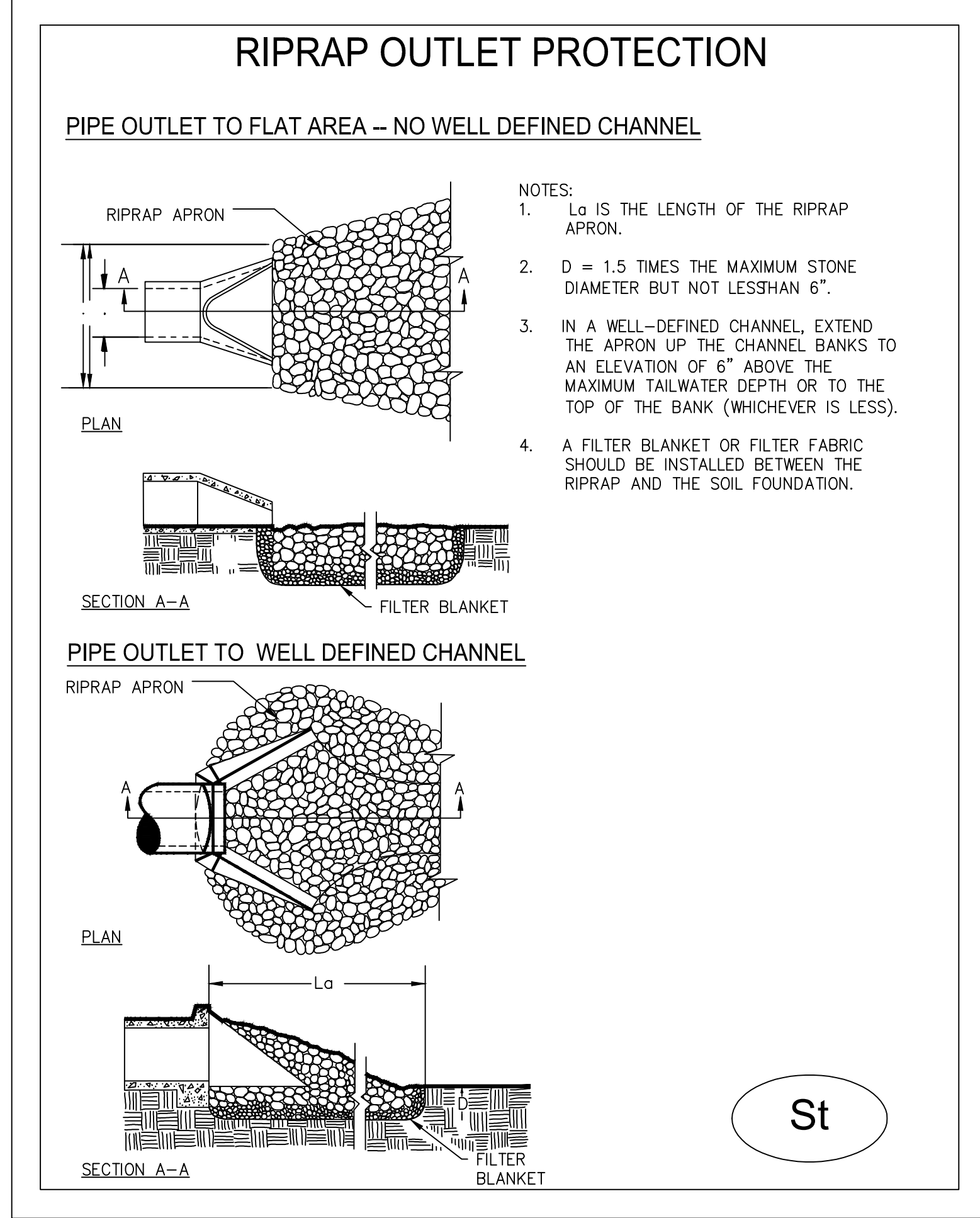
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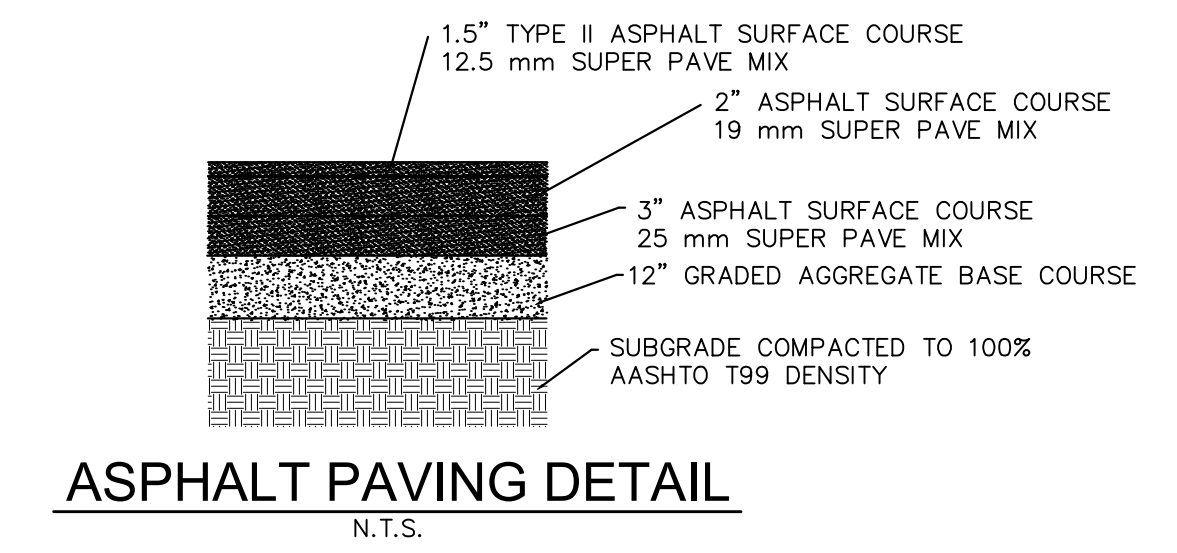
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04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

**ROBINS INTERNATIONAL INDUSTRIAL
 PARK ROAD EXTENSION
 CRESTVIEW CHURCH ROAD EXTENSION
 WARNER ROBINS, GA 31008**

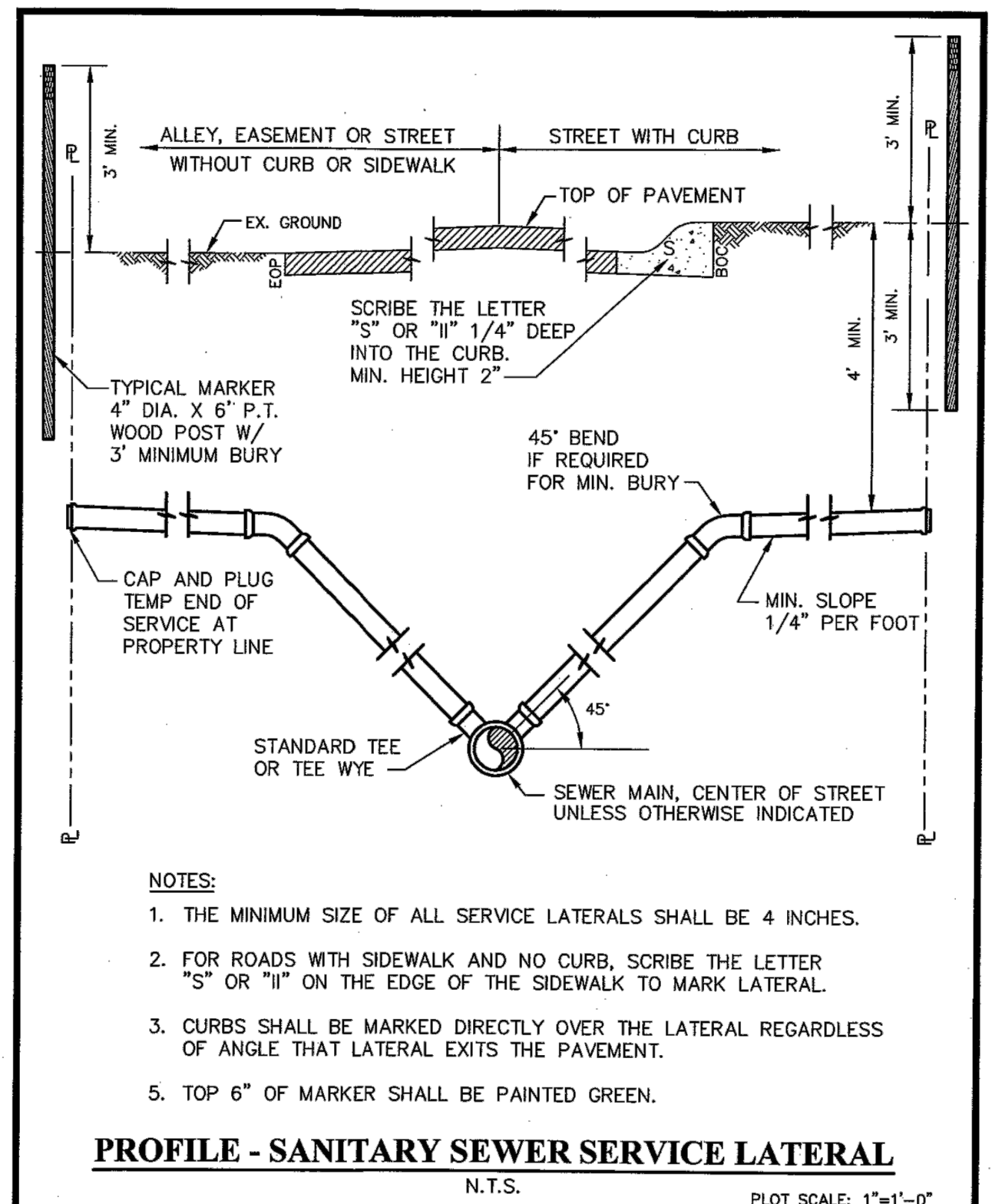
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 CONTROL DETAILS**

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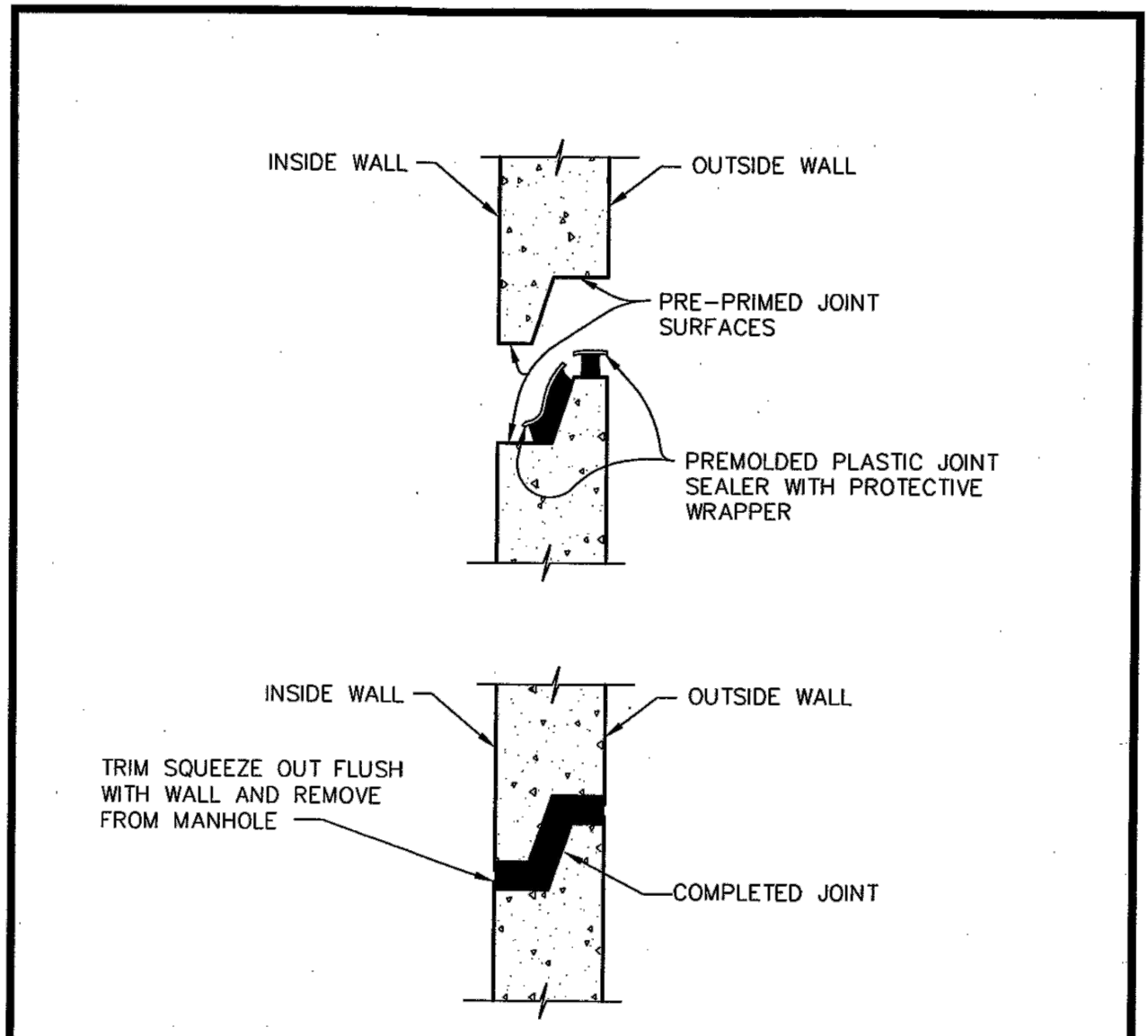
ASPHALT PAVING DETAIL
N.T.S.



- NOTES:**
1. THE MINIMUM SIZE OF ALL SERVICE LATERALS SHALL BE 4 INCHES.
 2. FOR ROADS WITH SIDEWALK AND NO CURB, SCRIBE THE LETTER "S" OR "H" ON THE EDGE OF THE SIDEWALK TO MARK LATERAL.
 3. CURBS SHALL BE MARKED DIRECTLY OVER THE LATERAL REGARDLESS OF ANGLE THAT LATERAL EXITS THE PAVEMENT.
 5. TOP 6" OF MARKER SHALL BE PAINTED GREEN.

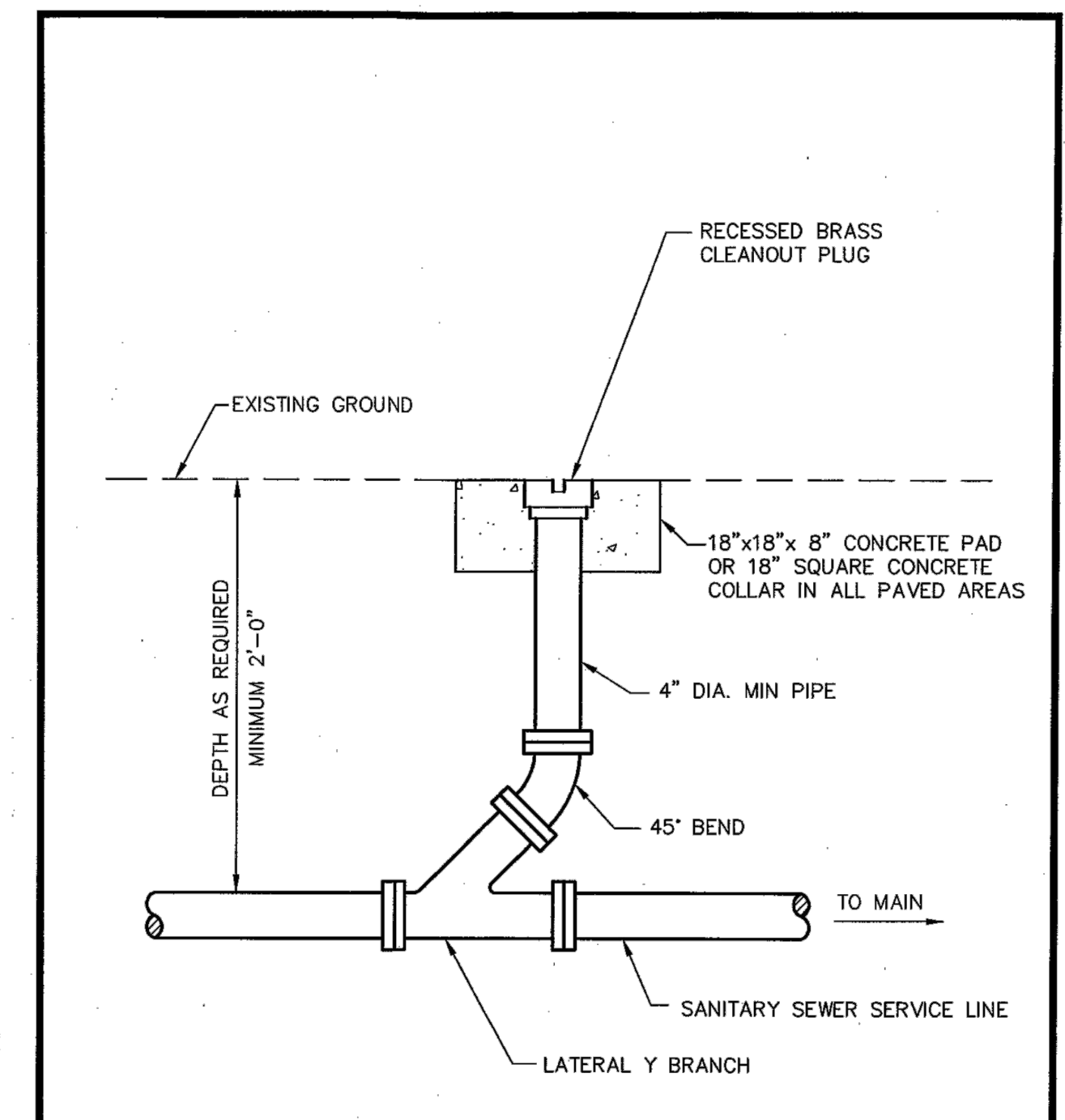
PROFILE - SANITARY SEWER SERVICE LATERAL
N.T.S. PLOT SCALE: 1"=1'-0"

SANITARY SEWER SERVICE LATERAL	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 8/30/01 FILE: SSLATPRO.DWG SHEET: S14
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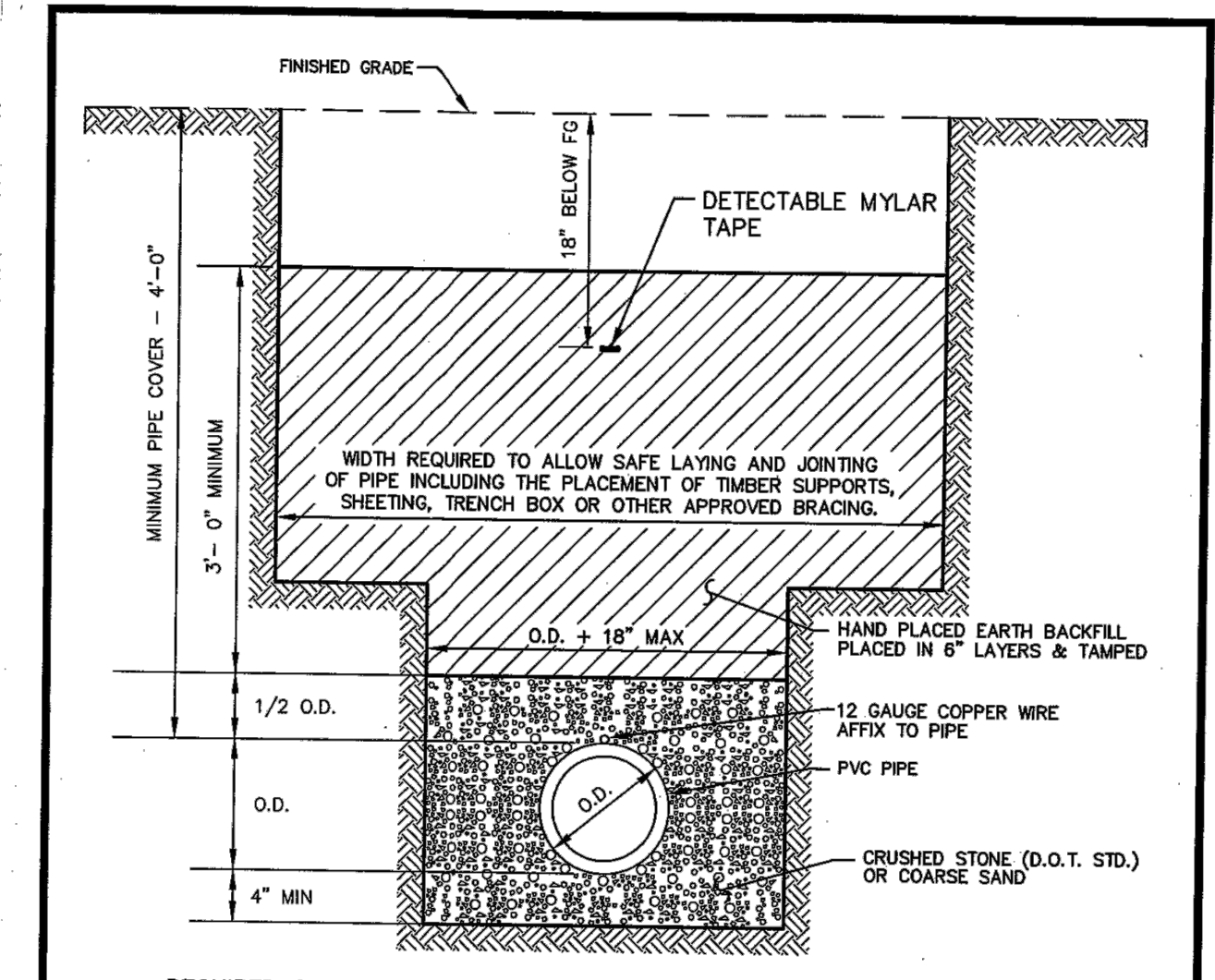
DETAIL - MANHOLE JOINT
N.T.S.

MANHOLE JOINT DETAIL	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 10/01/01 FILE: SSMHJT.DWG SHEET: S11
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DETAIL - CLEANOUT TO GRADE
SCALE: 1" = 1'-0"

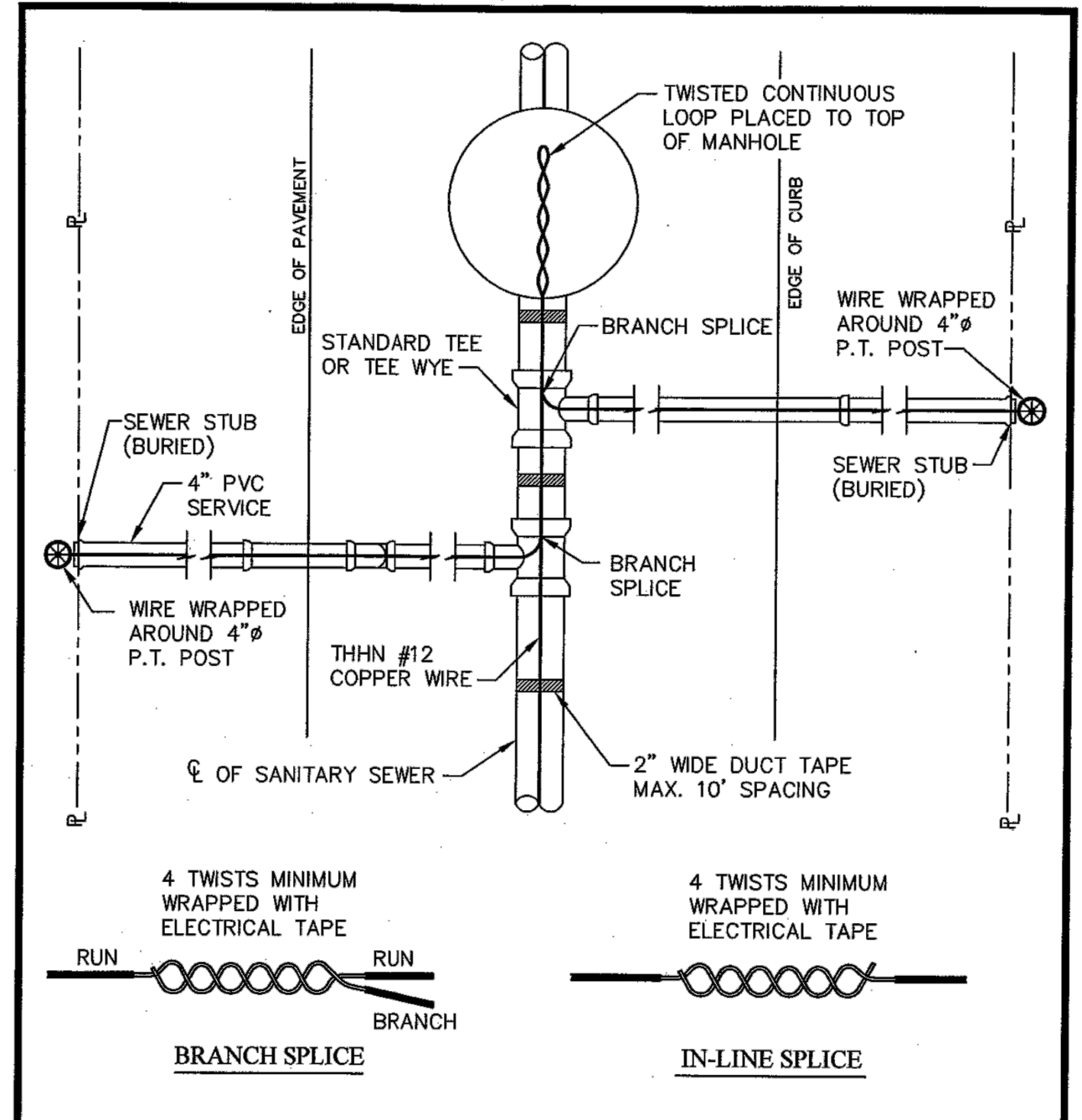
CLEANOUT TO GRADE	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 8/30/01 FILE: SSC0.DWG SHEET: S17
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- REQUIRED COMPACTION AND TESTING**
1. OUTSIDE OF PAVED OR PROPOSED PAVED AREAS
STANDARD PROCTOR, 90%, TESTING REQUIRED FIRST 3' ONLY.
 2. UNDER PAVED OR PROPOSED PAVED AREAS
STANDARD PROCTOR, 95%, TESTING REQUIRED EVERY 3' TO GRADE.
 3. UNDER D.O.T. ROADWAYS OR PROPOSED D.O.T. ROADWAYS
STANDARD PROCTOR, 98%, TESTING REQUIRED EVERY 3' TO GRADE.
 4. ALL COMPACTION TESTING SHALL BE CONDUCTED BY AN APPROVED SOILS TESTING FIRM.

SECTION - SANITARY SEWER BEDDING
PVC PIPE
N.T.S. PLOT SCALE: 1"=1'-0"

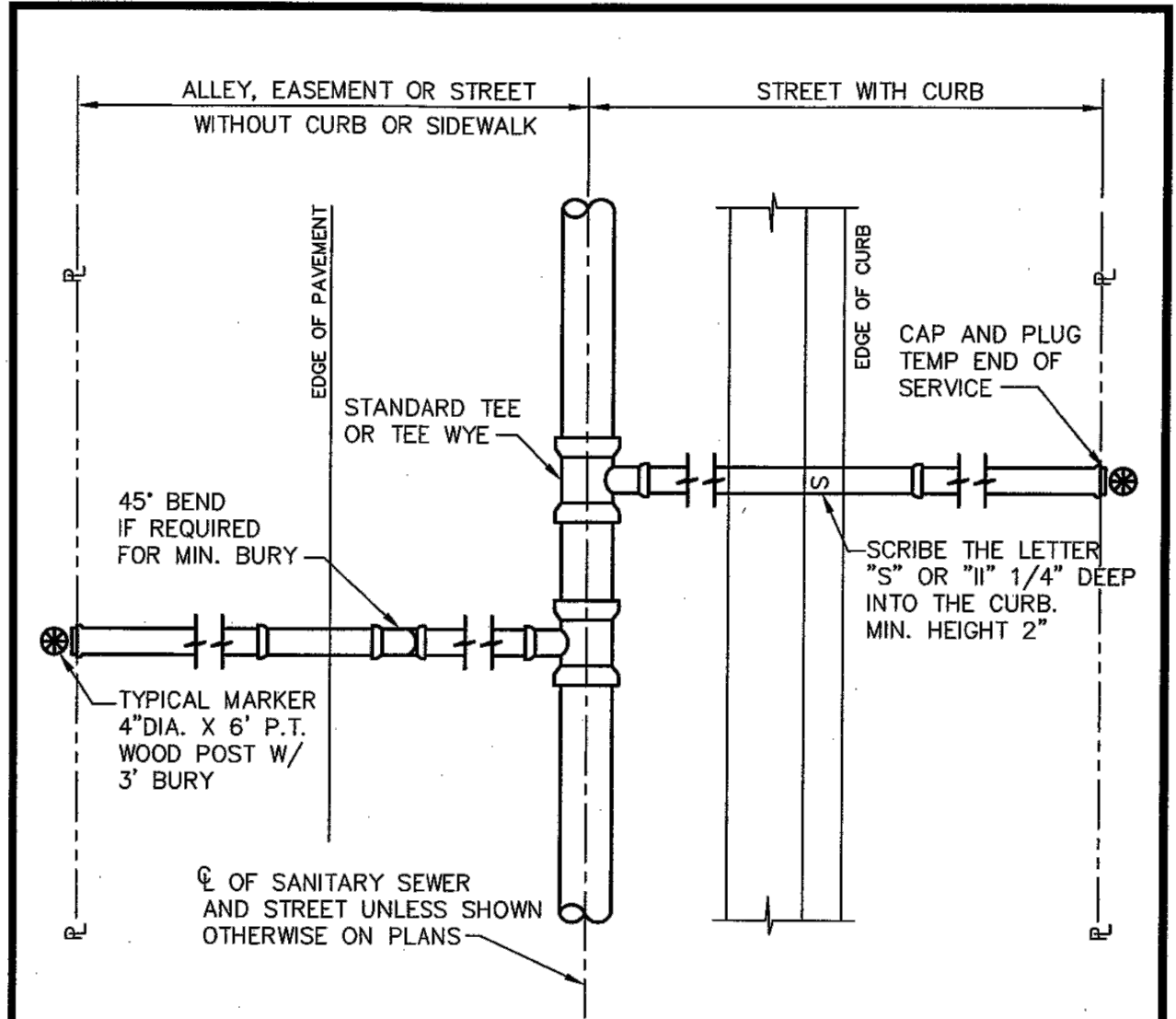
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- NOTES:**
1. PROTECTIVE COATING SHALL BE STRIPPED PRIOR TO SPLICE. WRAP FINISHED SPLICE WITH ELECTRICAL TAPE.

DETAIL - TRACER WIRE PLACEMENT - SEWER
N.T.S. PLOT SCALE: 1"=1'-0"

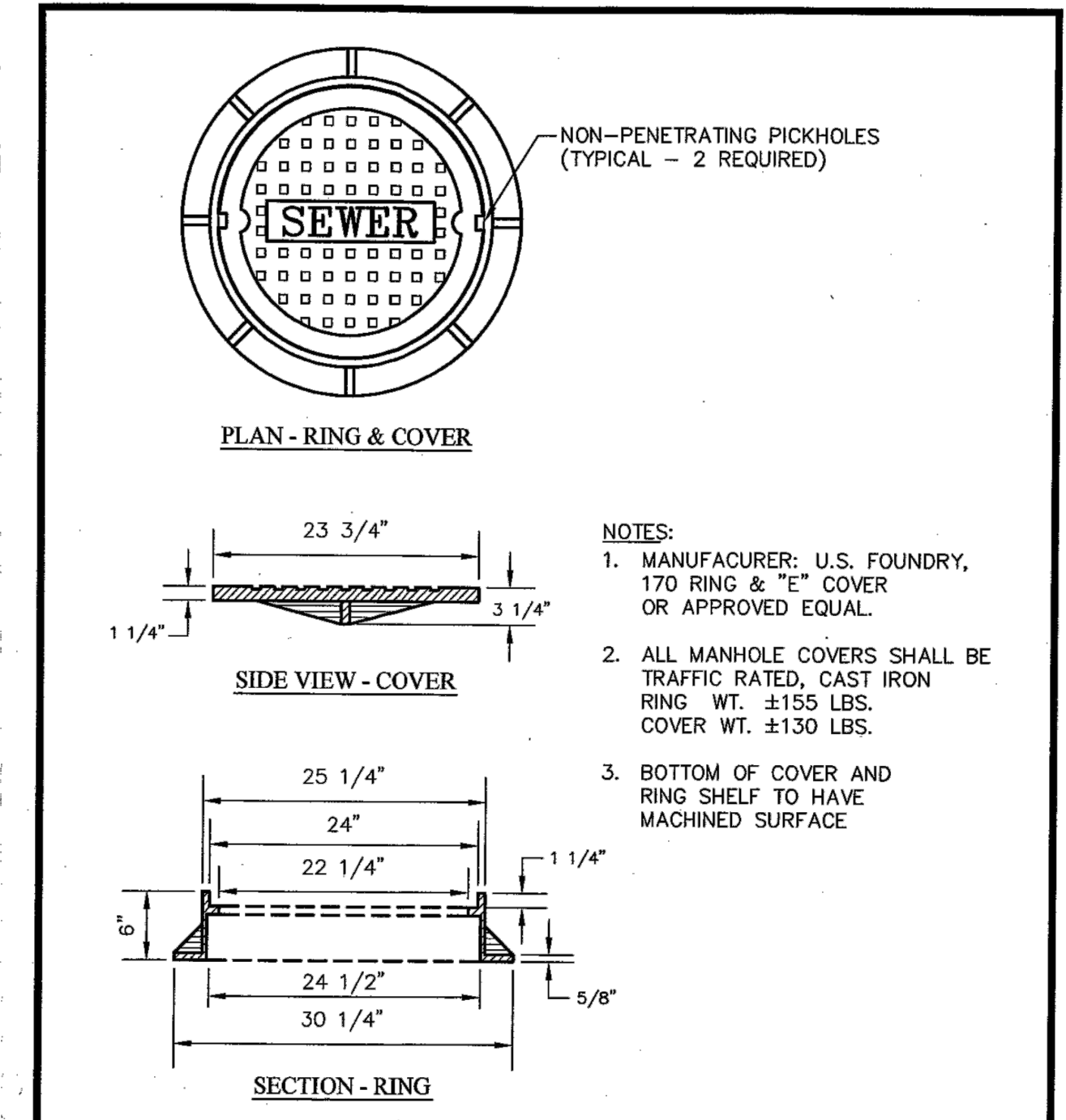
TRACER WIRE PLACEMENT	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 11/01/01 FILE: SWIRE.DWG SHEET: S15
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- NOTES:**
1. THE MINIMUM SIZE OF ALL SERVICE LATERALS SHALL BE 4 INCHES.
 2. FOR ROADS WITH SIDEWALK AND NO CURB, SCRIBE THE LETTER "S" OR "H" ON THE EDGE OF THE SIDEWALK TO MARK LATERAL.
 3. CURBS SHALL BE MARKED DIRECTLY OVER THE LATERAL REGARDLESS OF ANGLE THAT LATERAL EXITS THE PAVEMENT.
 4. TOP 6" OF MARKER SHALL BE PAINTED GREEN.

PLAN - SANITARY SEWER SERVICE LATERAL
N.T.S. PLOT SCALE: 1"=1'-0"

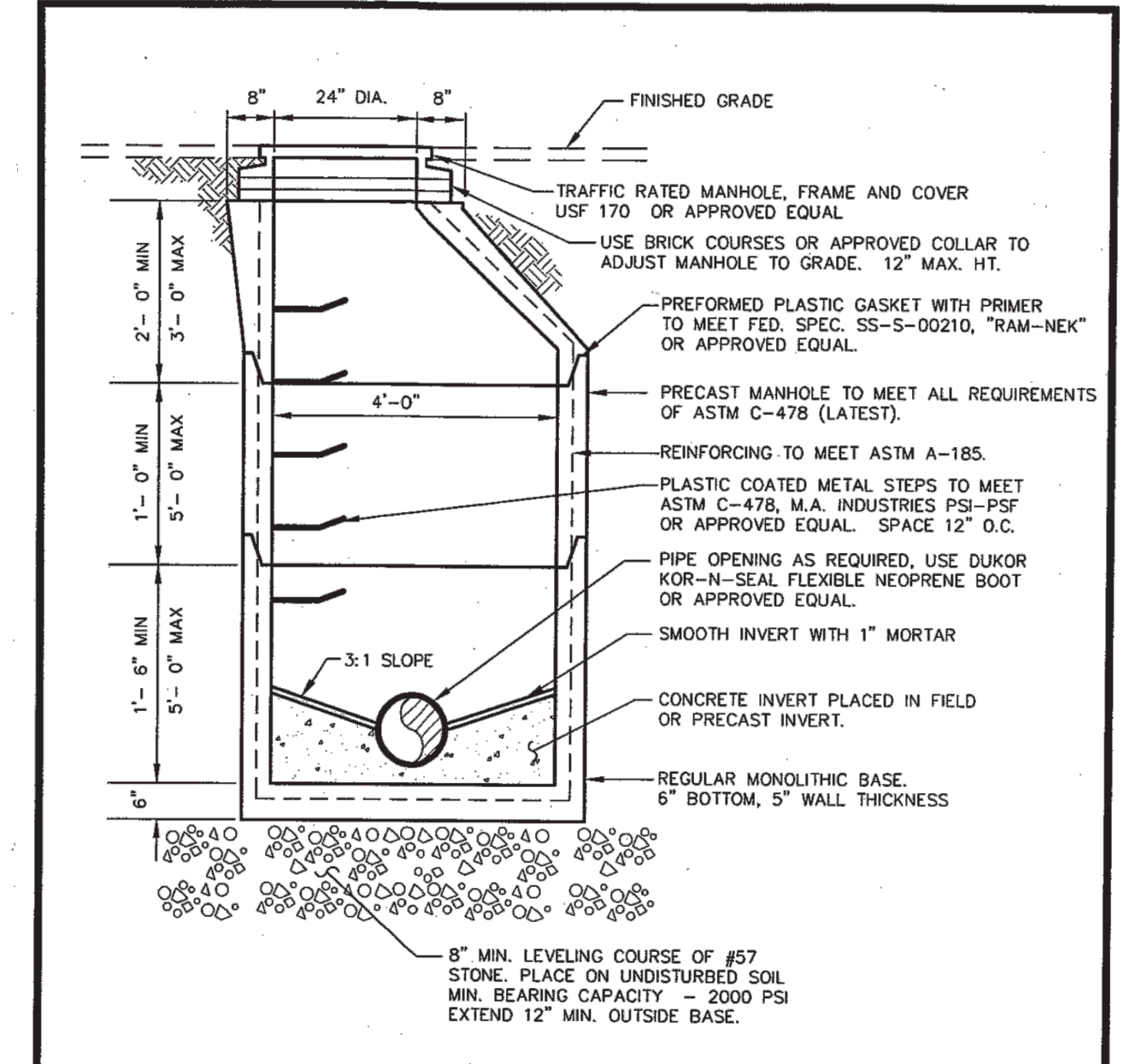
SANITARY SEWER SERVICE LATERAL	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 8/30/01 FILE: SSLATPLAN.DWG SHEET: S13
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- NOTES:**
1. MANUFACTURER: U.S. FOUNDRY, 170 RING & "E" COVER OR APPROVED EQUAL.
 2. ALL MANHOLE COVERS SHALL BE TRAFFIC RATED, CAST IRON RING, WT. ±155 LBS. COVER WT. ±130 LBS.
 3. BOTTOM OF COVER AND RING SHELF TO HAVE MACHINED SURFACE.

DETAIL - MANHOLE RING & COVER
1" = 1'-0"

MANHOLE RING & COVER	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 8/30/01 FILE: SSMHCOV.DWG SHEET: S12
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- NOTE:**
1. ALL MANHOLES SHALL BE ECCENTRIC CONE TYPE WITH VERTICAL SIDE. STEPS SHALL BE POSITIONED OVER INVERT SHELF AND AWAY FROM DROP CONNECTIONS.

SECTION - STANDARD MANHOLE
SCALE: 1" = 2'-0"

STANDARD MANHOLE	CITY OF WARNER ROBINS UTILITIES DISTRIBUTION STANDARD DETAIL	DATE: 8/30/01 FILE: SSMH.DWG SHEET: S7
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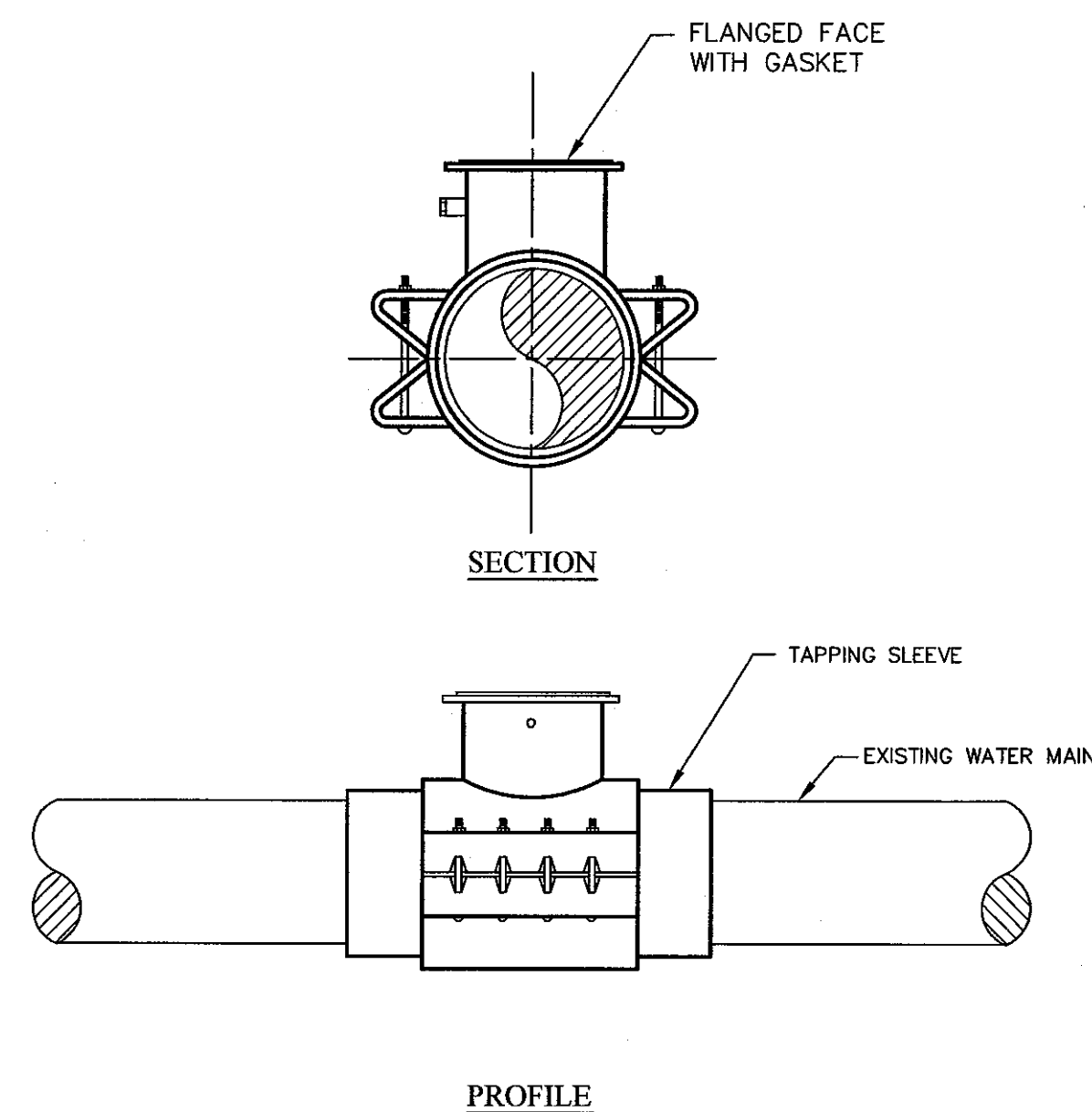
REVISIONS:

03/02/23	1ST LDP SUBMITTAL
04/12/23	2ND LDP SUBMITTAL
05/08/23	REV. SITE PLAN
05/19/23	3RD LDP SUBMITTAL

ROBINS INTERNATIONAL INDUSTRIAL PARK ROAD EXTENSION
CRESTVIEW CHURCH ROAD EXTENSION
WARNER ROBINS, GA 31008

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
C.800



- NOTES:
- TAPPING SLEEVE SHALL BE JCM MODEL #422 OR APPROVED EQUAL.
 - NO TAP SHALL BE MADE ON A PUBLIC MAIN WITHOUT PRIOR APPROVAL. A QUALIFIED REPRESENTATIVE SHALL BE ON-SITE FOR ALL TAPS.

DETAIL - TAPPING SLEEVE
N.T.S.

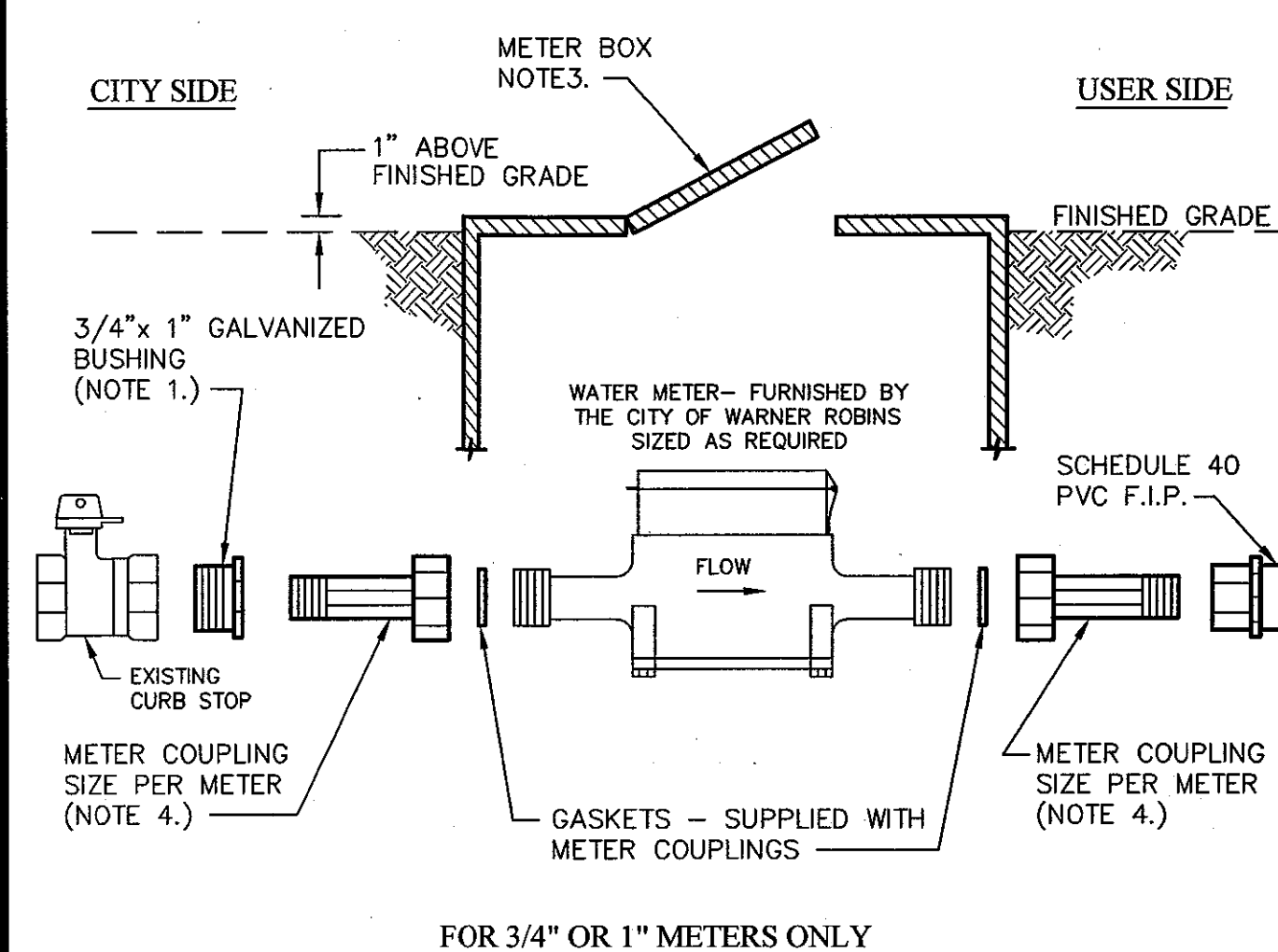
PLOT SCALE: 1=12

TAPPING SLEEVE SYSTEM



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 11/01/01
FILE: WTAP.DWG
SHEET: W9



- NOTES:
- GALVANIZED BUSHING WILL BE REQUIRED FOR 3/4" METER ON 1" CURB STOP.
 - ALL THREADS SHALL BE COATED WITH RECTOR SEAL NO. 5 OR APPROVED EQUAL.
 - METER BOX WITH READER DOOR SHALL BE DFW D1200-DIRB OR APPROVED EQUAL.
 - METER COUPLINGS SHALL BE OF ONE OF THE FOLLOWING:
FORD P/N C38-23-2.5 (3/4" x 2-1/2" L) OR C38-44-2.625 (1"x2-5/8" L)
MUELLER P/N H-10896 (3/4" x 2-1/2" L OR 1" x 2-5/8" L)
A.Y. McDONALD P/N 4620 (3/4" x 2-1/2" L OR 1" x 2-5/8" L)

STANDARD WATER METER DETAIL
N.T.S.

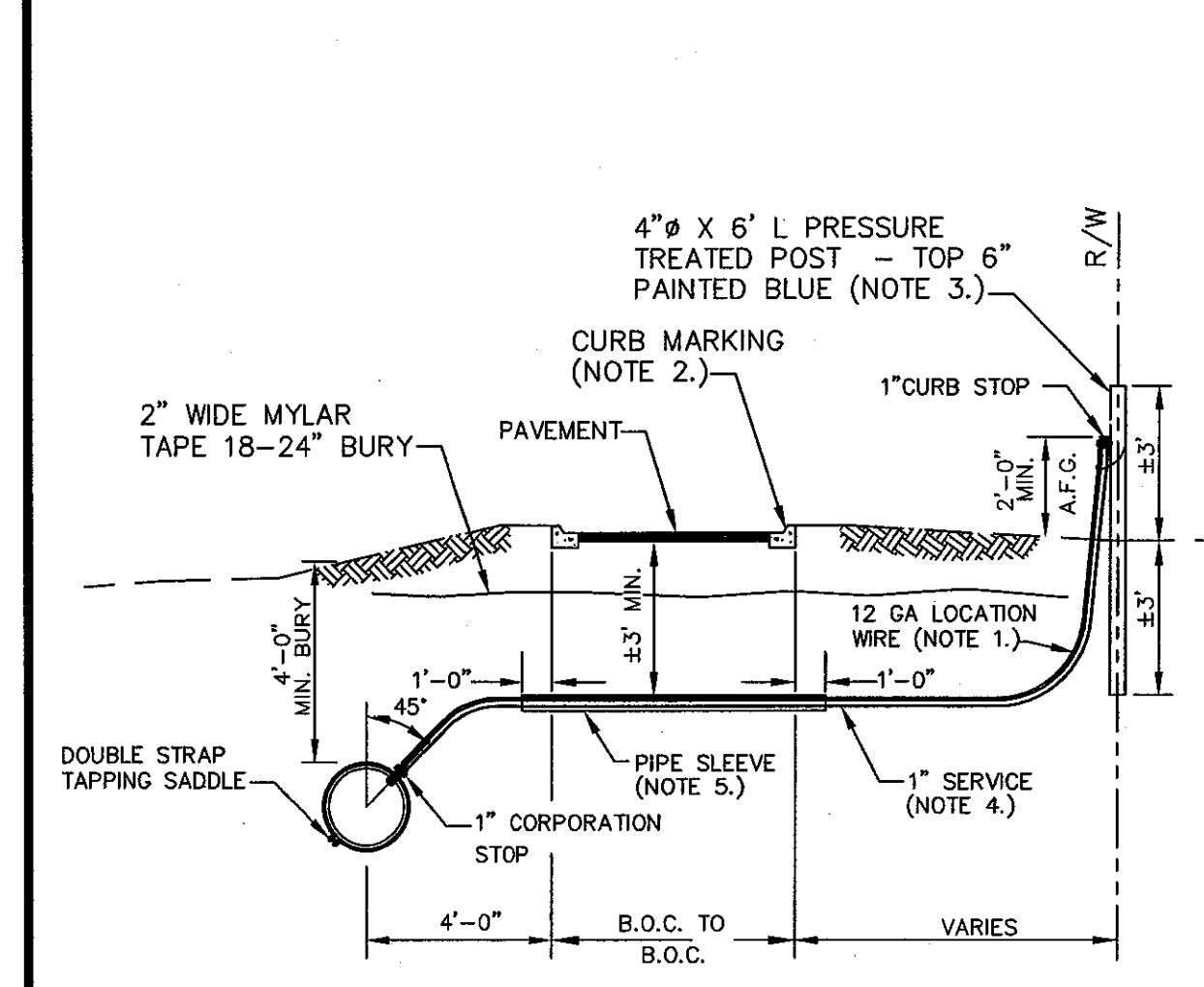
PLOT SCALE: 1=12

WATER METER DETAIL



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 12/01/01
FILE: WMETER.DWG
SHEET: W15



- NOTES:
- TRACER WIRE SHALL BE AFFIXED TO THE TOP OF THE SERVICE LINE WITH DUCT TAPE OR OTHER SUITABLE STRAPPING TAPE.
 - CONCRETE CURB SHALL BE ETCHED WITH A "W" OR "I" IN LINE WITH OR DIRECTLY OVER THE SERVICE LINE LOCATION.
 - TEMPORARILY TIE END OF SERVICE LINE TO POST.
 - 1" HDPE SHALL BE CONTINUOUS FULL LENGTH WITHOUT SPLICES.
 - PIPE SLEEVE TO BE MINIMUM 2" SCHEDULE 40 PVC. *SLEEVE NOT REQUIRED FOR SAME SIDE SERVICE LINES.
 - CONSTRUCTION IN GA. D.O.T. RIGHT-OF-WAY SHALL CONFORM TO D.O.T. STD. SPECIFICATIONS.

TYPICAL HDPE WATER SERVICE LATERAL
N.T.S.

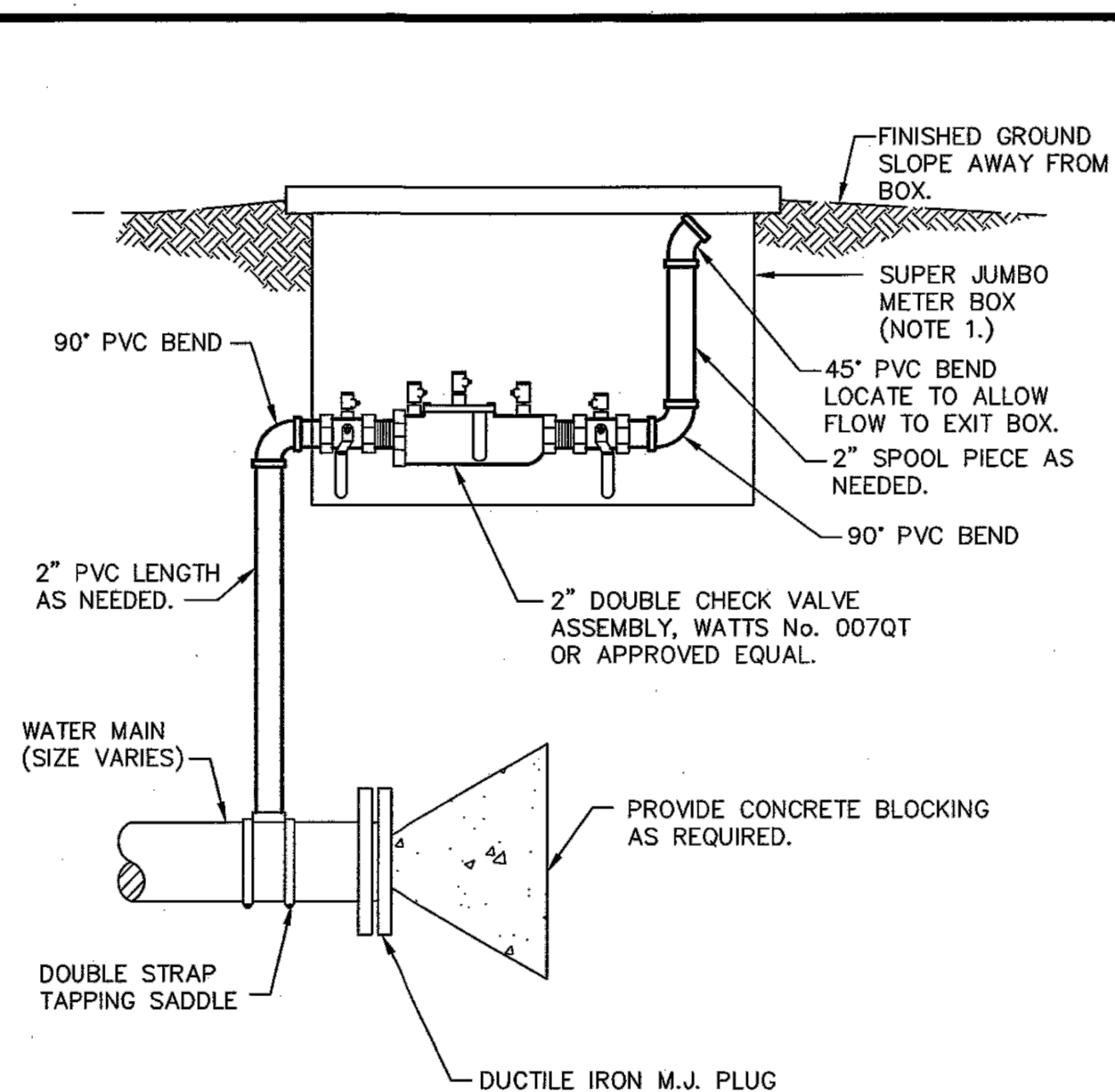
PLOT SCALE: 1=12

HDPE WATER SERVICE



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 11/01/01
FILE: WWATSERV.DWG
SHEET: W13



- NOTES:
- METER BOX SHALL BE CAST IRON WHERE BOX IS EXPOSED TO VEHICULAR TRAFFIC.
 - FREEZE PROOF FLUSH-TYPE HYDRANT (ECLIPSE NO. 85, MUELLER A-412 OR APPROVED EQUAL) MAY BE USED IN PLACE OF STANDARD BLOW-OFF ASSEMBLY. USE TRAFFIC PROOF BOX WHERE HYDRANT IS EXPOSED TO VEHICULAR TRAFFIC.

END LINE WATER BLOW OFF
N.T.S.

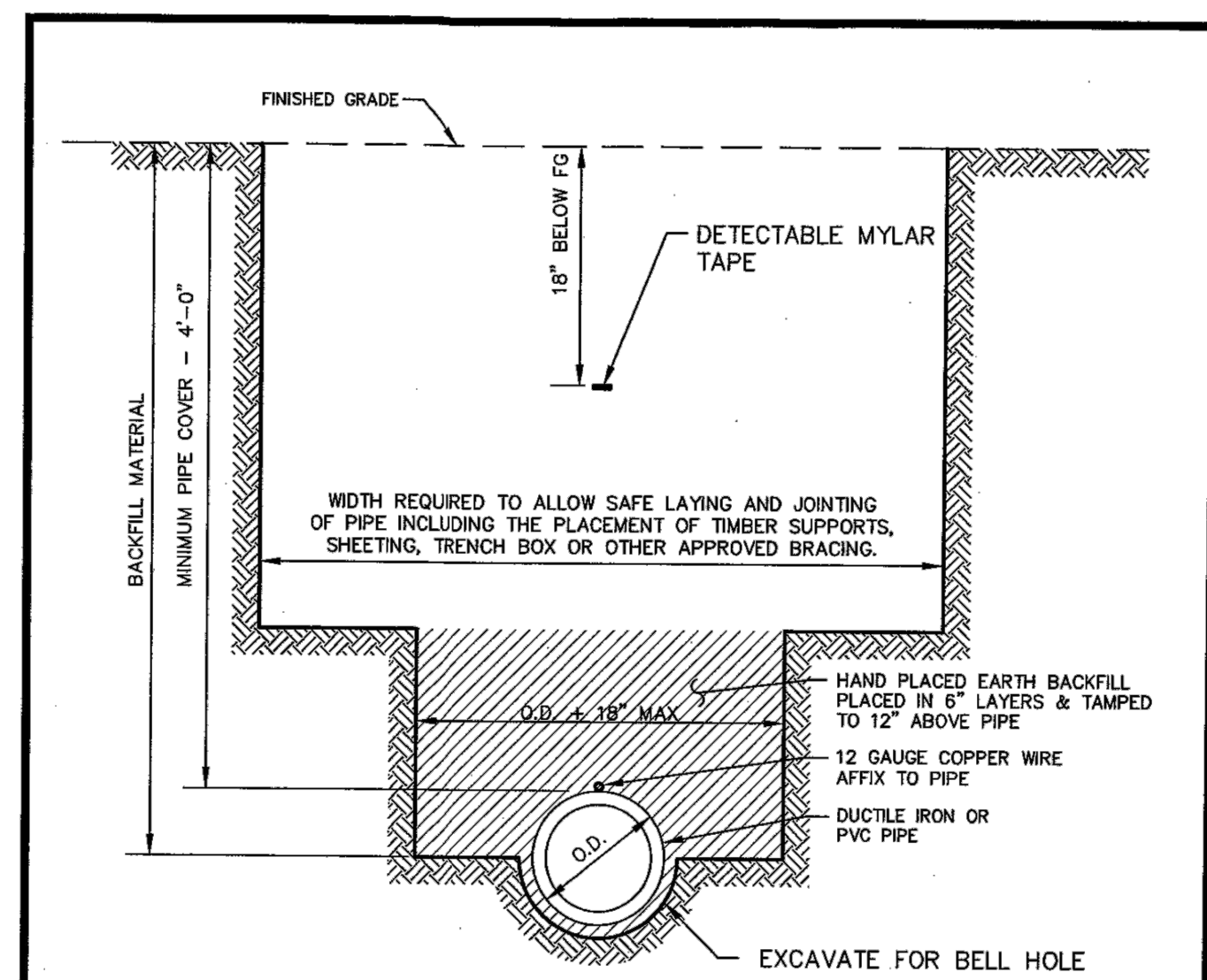
PLOT SCALE: 1=12

WATER MAIN BLOW OFF



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 11/01/01
FILE: WBLOWOFF.DWG
SHEET: W18



- NOTES:
- TRENCH SHALL BE EXCAVATED TO THE DEPTH REQUIRED PROVIDING A UNIFORM AND CONTINUOUS BEARING AND SUPPORT FOR THE PIPE ON SOLID, UNDISTURBED GROUND AT EVERY POINT BETWEEN BELLS OR COUPLINGS.
 - WHEN POOR BEDDING SOIL IS ENCOUNTERED, REMOVE UNSUITABLE SOIL TO REQUIRED DEPTH AND BACKFILL WITH AN APPROVED AGGREGATE MATERIAL PRIOR TO LAYING PIPE. BACKFILL SHALL BE PLACED IN 6" LIFTS WITH EACH LAYER TAMPED TO 95% COMPACTION.

SECTION - WATER LINE BEDDING
N.T.S.

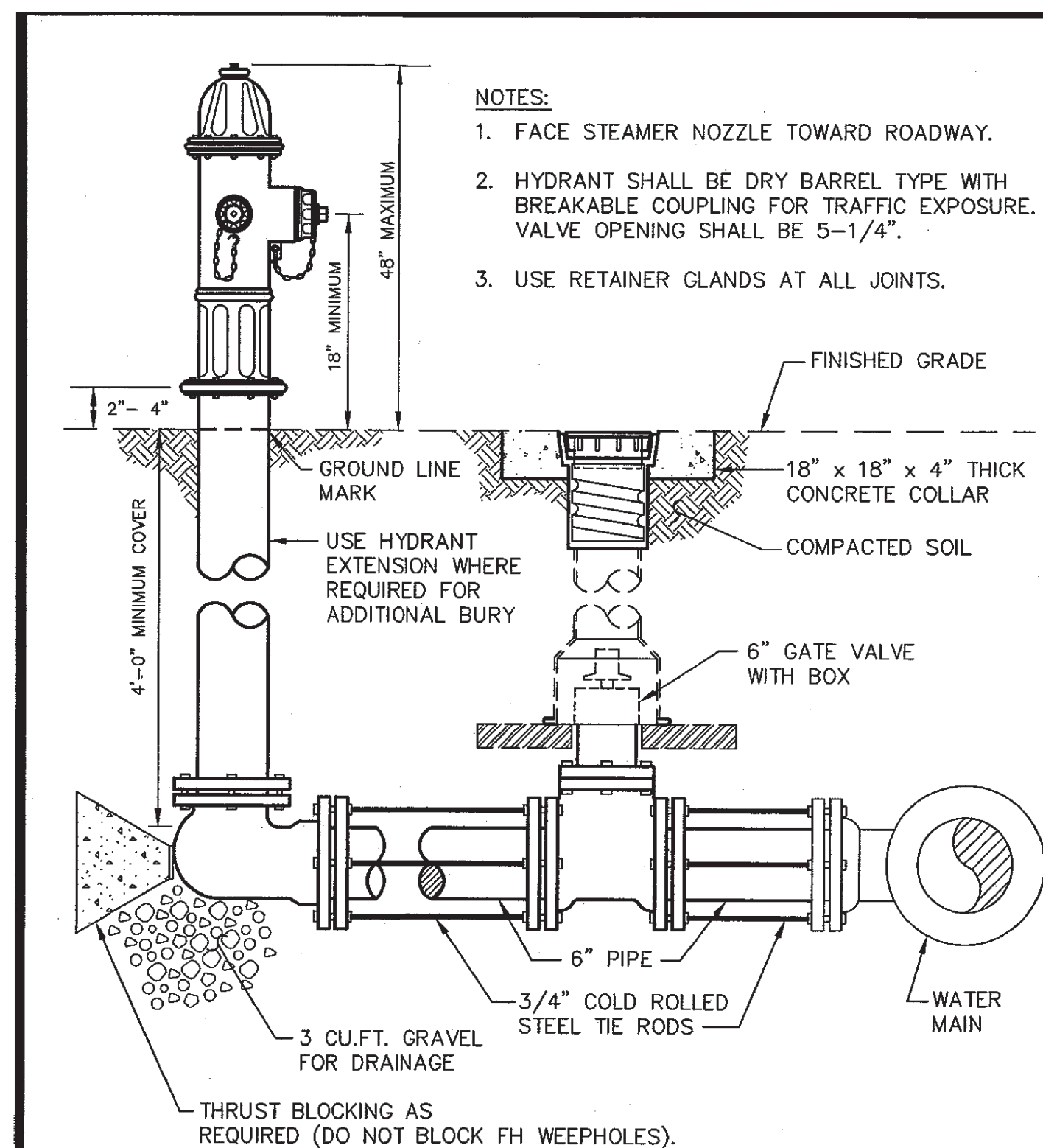
PLOT SCALE: 1=12

WATER LINE BEDDING



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 8/30/01
FILE: WBED.DWG
SHEET: W1



- NOTES:
- FACE STEAMER NOZZLE TOWARD ROADWAY.
 - HYDRANT SHALL BE DRY BARREL TYPE WITH BREAKABLE COUPLING FOR TRAFFIC EXPOSURE. VALVE OPENING SHALL BE 5-1/4".
 - USE RETAINER GLANDS AT ALL JOINTS.

TYPICAL FIRE HYDRANT SETTING
N.T.S.

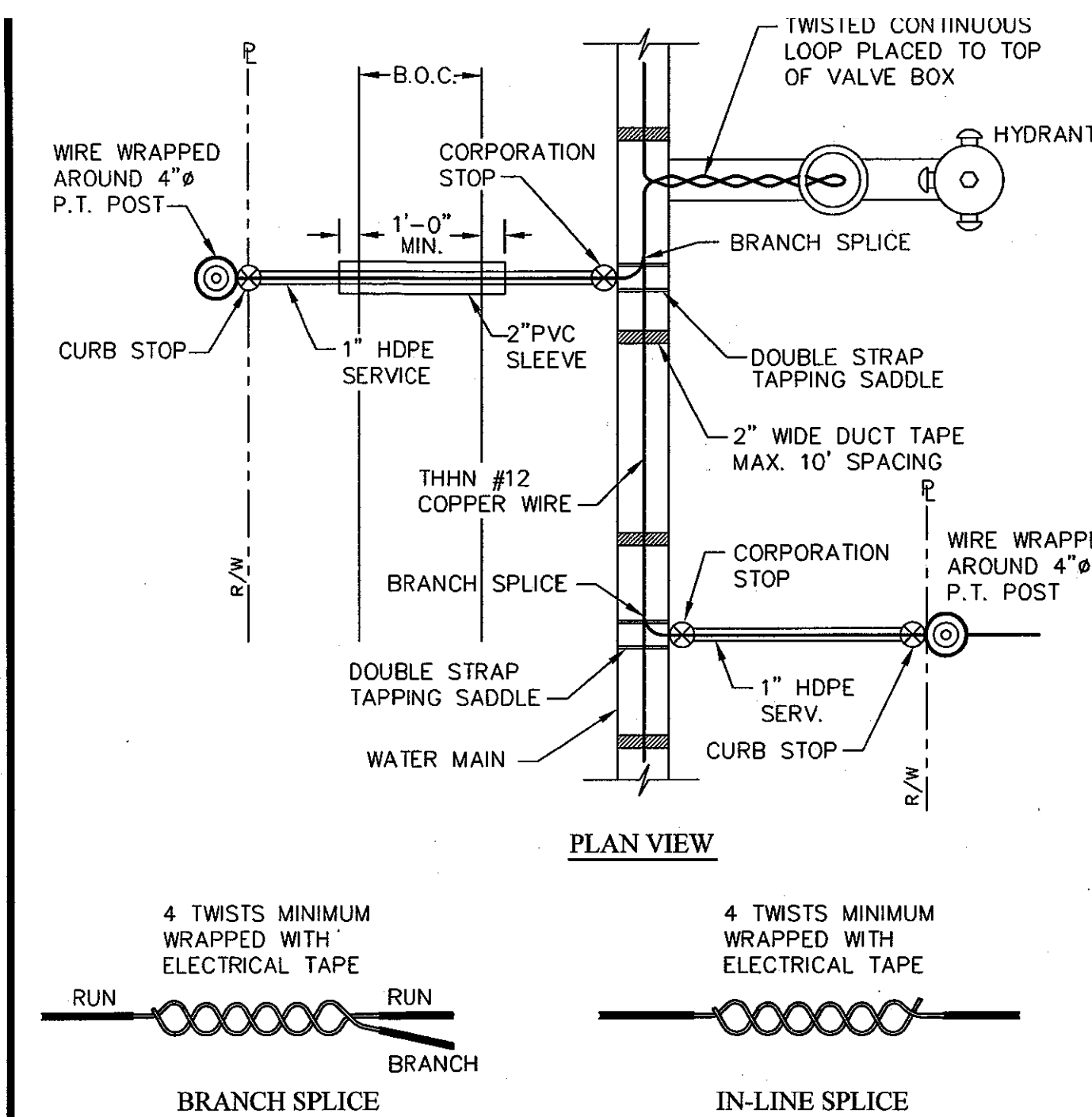
PLOT SCALE: 1=12

FIRE HYDRANT SYSTEM



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 11/01/01
FILE: WPH.DWG
SHEET: W10



- NOTES:
- PROTECTIVE COATING SHALL BE STRIPPED PRIOR TO SPLICE. WRAP FINISHED SPLICE WITH ELECTRICAL TAPE.

DETAIL - TRACER WIRE PLACEMENT - WATER
N.T.S.

PLOT SCALE: 1=12

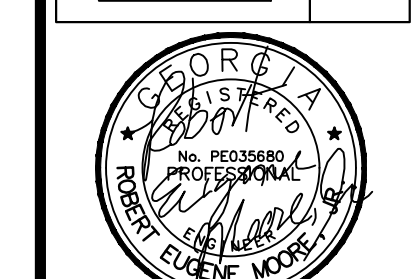
TRACER WIRE PLACEMENT



CITY OF WARNER ROBINS
UTILITIES DISTRIBUTION
STANDARD DETAIL
WATER/SEWER/GAS/STORM

DATE: 11/01/01
FILE: WWIRE.DWG
SHEET: W14

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C.810