South Main Street Improvements

for

City of Hinesville

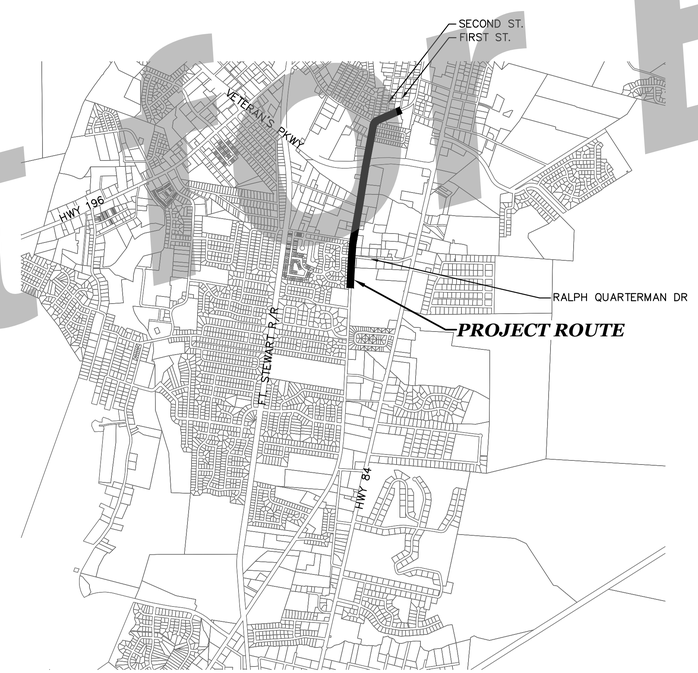
Liberty County, Georgia

Date: December 14, 2021

Not for Bid

SHEET INDEX:

DESCRIPTION	SHEET
1. OVERALL SITE	C 1.0
2. TYPICAL SECTIONS	C 1.1
3. ROUNDABOUT PLAN	C 2.0
4. STREET PLAN & PROFILE	C 2.1 - C 2.9
5. DRAINAGE PLAN & PROFILE	C 2.10 - C 2.20
6. UTILITY PLAN	C 4.0 - C 4.4
7. SIGNING & MARKING PLAN	C 5.0 - C 5.4
9. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES	C 6.0
10. EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN	C 6.1 - C 6.6
11. INTERSECTION PLAN	C 7.0 - C 7.2
12. DETAILS	C 8.0 - C 8.11
13. STAGING PLAN	C 9.0 - C 9.18



START PROJECT: 31.8194, −81.6054
END PROJECT: 31.8312, −81.6007

DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		SS
UNDERGROUND WATER LINE	W	W
FORCE MAIN	FM	FM
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE	T	T
UNDERGROUND TELEPHONE CONDUIT	TC	TC
UNDERGROUND GAS LINE	12"G	12"G
DITCH CENTERLINE		
TOP OF CURB & GUTTER ELEVATIONS	TC=90.00 / G=89.50	EX TC=90.00 / EX G=89.50
SPOT ELEVATION	X=90.00	X=90.00
FIRE HYDRANT		
SEWER MANHOLE		
WATER VALVE	WV	WV
TELEPHONE MANHOLE		
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH	SM	SM

811 Utilities Protection Center
Know what's below. Call before you dig. Dial 811
Three Working Days BEFORE You Dig
Safe digging is a SHARED responsibility and in Georgia its the law
811 or 1-800-282-7411

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE RE–VEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL MANUAL GUCC, CURRENT EDITION.
6. ALL STREET AND INFRASTRUCTURE INSTALLATION TO BE IN ACCORDANCE WITH CITY OF HINESVILLE DEVELOPMENT STANDARDS.

24 HOUR CONTACT
CURLES BUTLER
LIBERTY CONSOLIDATED
PLANNING COMMISSION
100 MAIN ST #7520
HINESVILLE, GA 31313
TEL: (912) 213–5323
cbutler@thelcpc.org

OWNER/AGENT
CITY OF HINESVILLE
CONTACT: KENNETH HOWARD
(CITY MANAGER)
115 EAST M.L. KING, JR. DRIVE
HINESVILLE, GA 31313
TEL: (912) 876–3564
khoward@cityofhinesville.org

PRIMARY PERMITTEE
CITY OF HINESVILLE
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GREENSBORO, GA 30642◆TEL: (706) 454-0870
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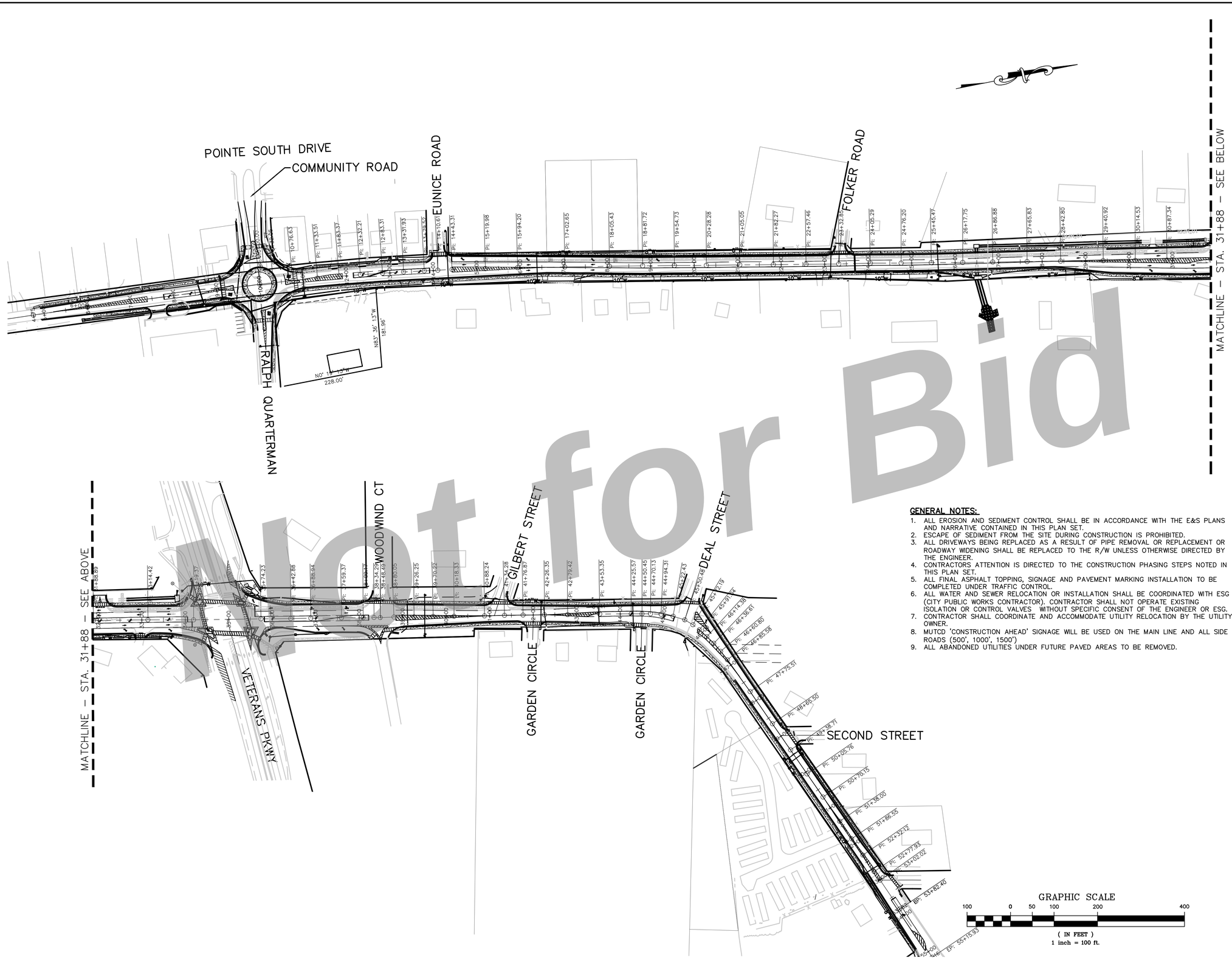
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 935 PAUL C. SIMONTON
Paul C. Simonton 6-21-22
Level II Certification No. 935
Expiration Date: 10–01–23

JOB NO. 2010-45PRJ

REVISION NO.	DATE	DESCRIPTION



Not for Bid

GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE E&S PLANS AND NARRATIVE CONTAINED IN THIS PLAN SET.
2. ESCAPE OF SEDIMENT FROM THE SITE DURING CONSTRUCTION IS PROHIBITED.
3. ALL DRIVEWAYS BEING REPLACED AS A RESULT OF PIPE REMOVAL OR REPLACEMENT OR ROADWAY WIDENING SHALL BE REPLACED TO THE R/W UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. CONTRACTORS ATTENTION IS DIRECTED TO THE CONSTRUCTION PHASING STEPS NOTED IN THIS PLAN SET.
5. ALL FINAL ASPHALT TOPPING, SIGNAGE AND PAVEMENT MARKING INSTALLATION TO BE COMPLETED UNDER TRAFFIC CONTROL.
6. ALL WATER AND SEWER RELOCATION OR INSTALLATION SHALL BE COORDINATED WITH ESG (CITY PUBLIC WORKS CONTRACTOR). CONTRACTOR SHALL NOT OPERATE EXISTING ISOLATION OR CONTROL VALVES WITHOUT SPECIFIC CONSENT OF THE ENGINEER OR ESG.
7. CONTRACTOR SHALL COORDINATE AND ACCOMMODATE UTILITY RELOCATION BY THE UTILITY OWNER.
8. MUTCD 'CONSTRUCTION AHEAD' SIGNAGE WILL BE USED ON THE MAIN LINE AND ALL SIDE ROADS (500', 1000', 1500')
9. ALL ABANDONED UTILITIES UNDER FUTURE PAVED AREAS TO BE REMOVED.

DRAWING COMPLETED BY:

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Paul C. Simonton 8-21-20

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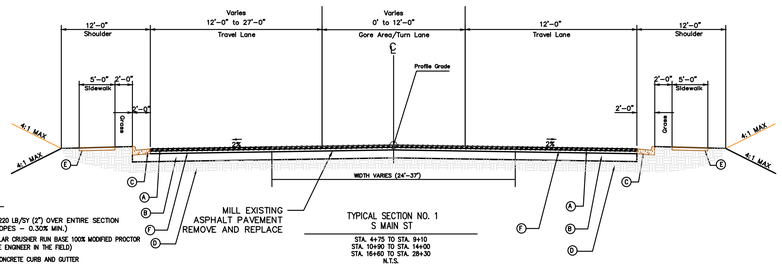
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Overall

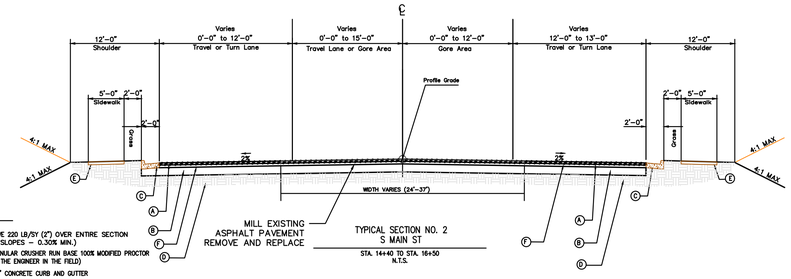
DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C1.0



TYPICAL SECTION NO. 1
S MAIN ST
STA. 4+75 TO STA. 9+10
STA. 10+90 TO STA. 14+00
STA. 16+60 TO STA. 28+30
N.T.S.

TYPICAL SECTION LEGEND

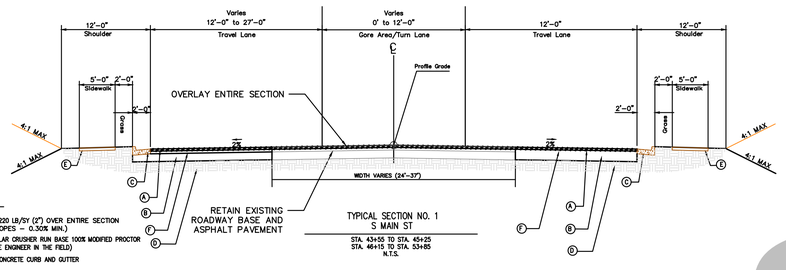
- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 2
S MAIN ST
STA. 14+40 TO STA. 16+50
N.T.S.

TYPICAL SECTION LEGEND

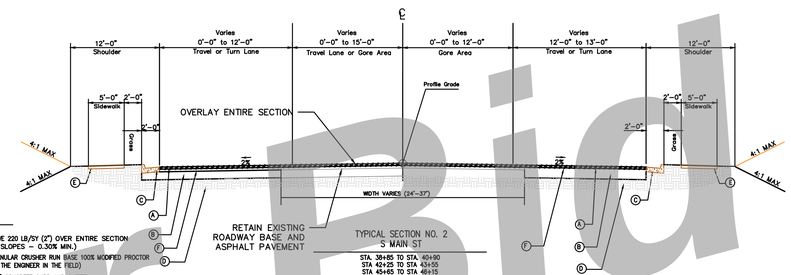
- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 1
S MAIN ST
STA. 43+55 TO STA. 45+25
STA. 46+15 TO STA. 53+85
N.T.S.

TYPICAL SECTION LEGEND

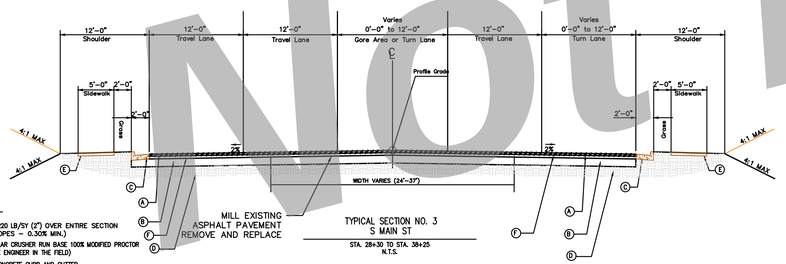
- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 2
S MAIN ST
STA. 38+85 TO STA. 40+90
STA. 42+25 TO STA. 43+55
STA. 45+65 TO STA. 46+15
N.T.S.

TYPICAL SECTION LEGEND

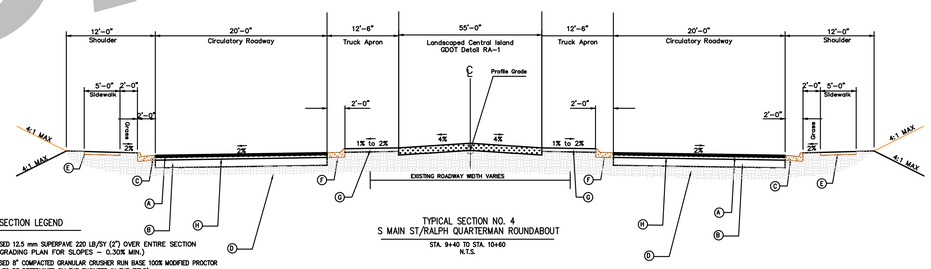
- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 3
S MAIN ST
STA. 28+30 TO STA. 38+25
N.T.S.

TYPICAL SECTION LEGEND

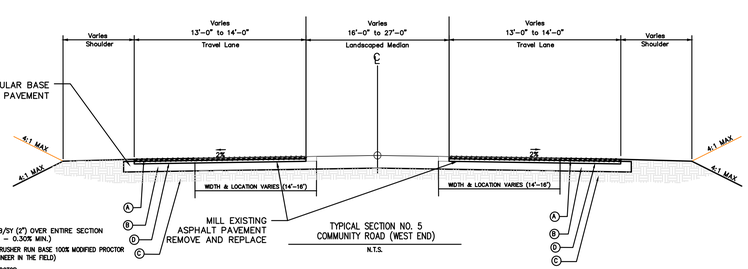
- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 4
S MAIN ST/RALPH QUARTERMAN ROUNDABOUT
STA. 9+40 TO STA. 10+60
N.T.S.

TYPICAL SECTION LEGEND

- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) PROPOSED STANDARD 6" X 24" CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (D) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (E) 4" CONCRETE SIDEWALK (SEE DETAIL SHEET C8.2)
- (F) PROPOSED ROLLOVER CONCRETE CURB AND GUTTER (SEE DETAIL SHEET C8.2)
- (G) PROPOSED CONCRETE PAVEMENT, 10" TYP. SLAB THICKNESS
- (H) PROPOSED 19 mm 2" ASPHALT BINDER



TYPICAL SECTION NO. 5
COMMUNITY ROAD (WEST END)
N.T.S.

TYPICAL SECTION LEGEND

- (A) PROPOSED 12.5 mm SUPERPAVE 220 LB/SY (2") OVER ENTIRE SECTION (SEE GRADING PLAN FOR SLOPES – 0.30% MIN.)
- (B) PROPOSED 8" COMPACTED GRANULAR CRUSHER RUN BASE 100% MODIFIED PROCTOR (WIDTH TO BE DETERMINED BY THE ENGINEER IN THE FIELD)
- (C) SUBGRADE COMPACTED TO 95% STD PROCTOR
- (D) PROPOSED 19 mm 2" ASPHALT BINDER

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Paul C. Simonton 10-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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912-244-7800

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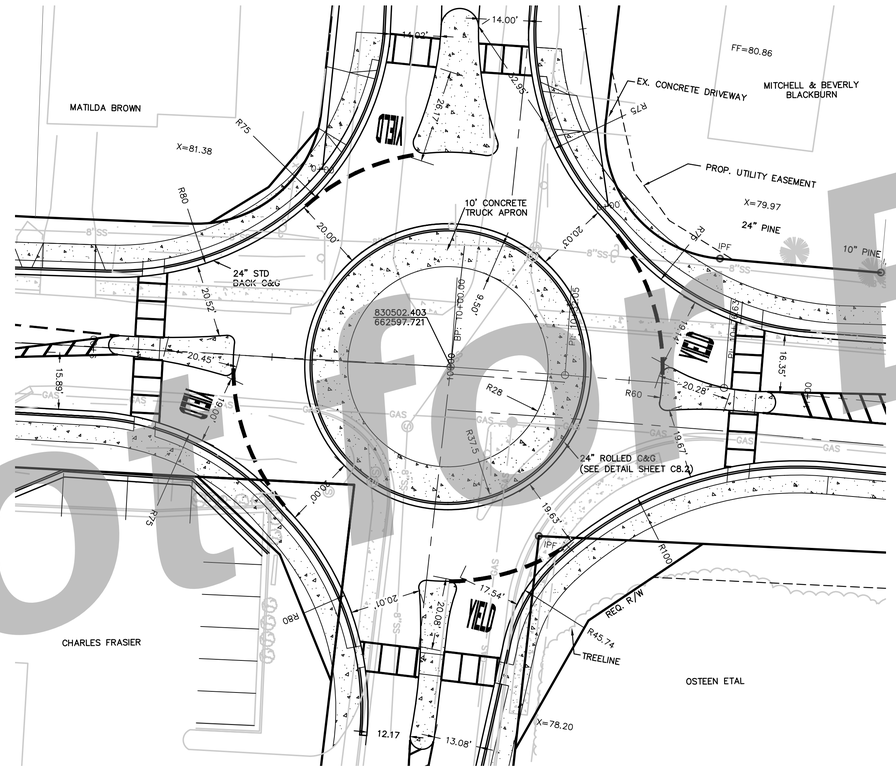
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Typical Sections

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C1.1



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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

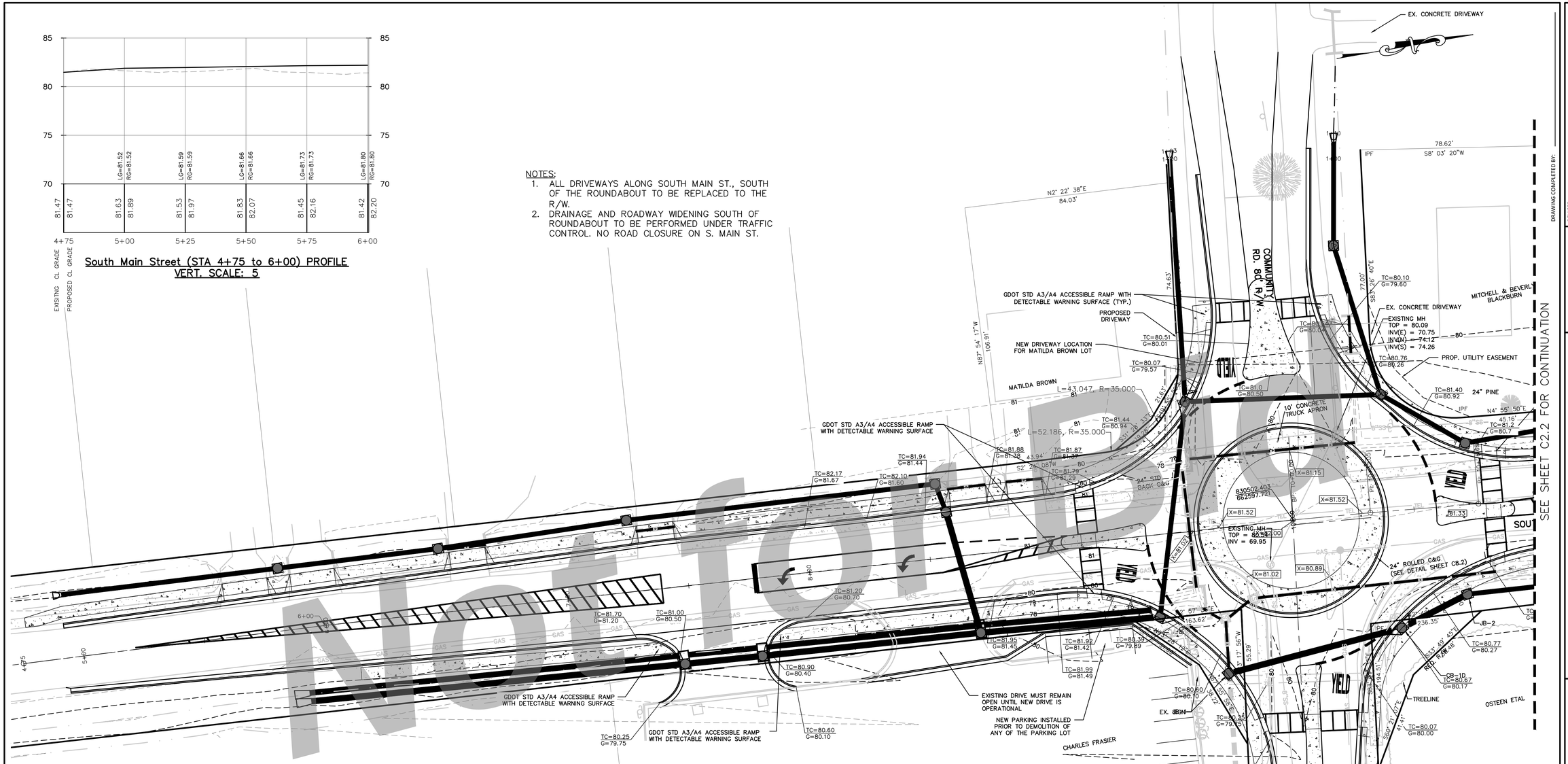
Liberty County, Georgia

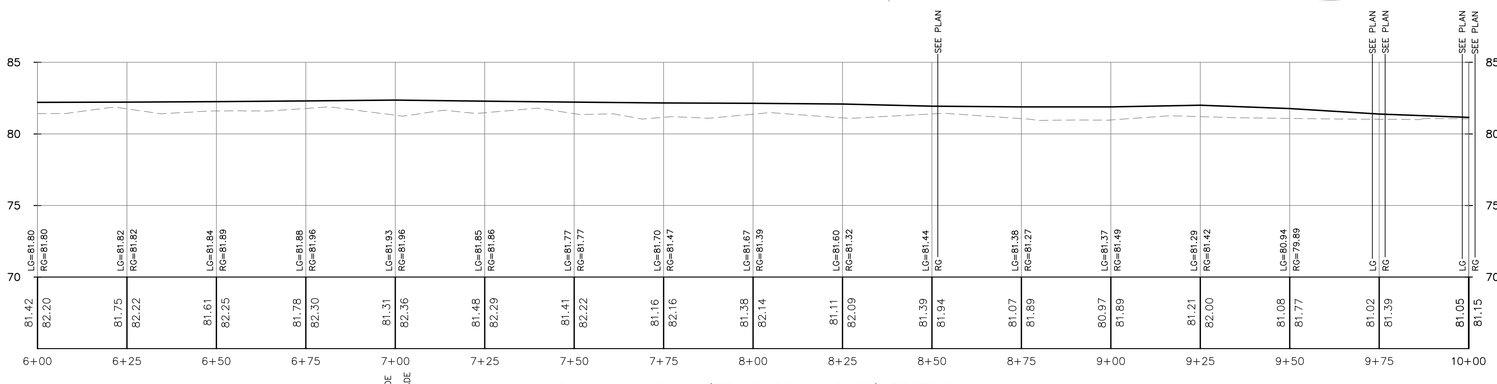
Roundabout Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.0

South Main Street (STA 4+75 to 6+00) PROFILE
VERT. SCALE: 5

NOTES:
1. ALL DRIVEWAYS ALONG SOUTH MAIN ST., SOUTH OF THE ROUNDABOUT TO BE REPLACED TO THE R/W.
2. DRAINAGE AND ROADWAY WIDENING SOUTH OF ROUNDABOUT TO BE PERFORMED UNDER TRAFFIC CONTROL. NO ROAD CLOSURE ON S. MAIN ST.





South Main Street (STA 6+00 to 10+00) PROFILE
VERT. SCALE: 5

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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Expiration Date: 10-01-23

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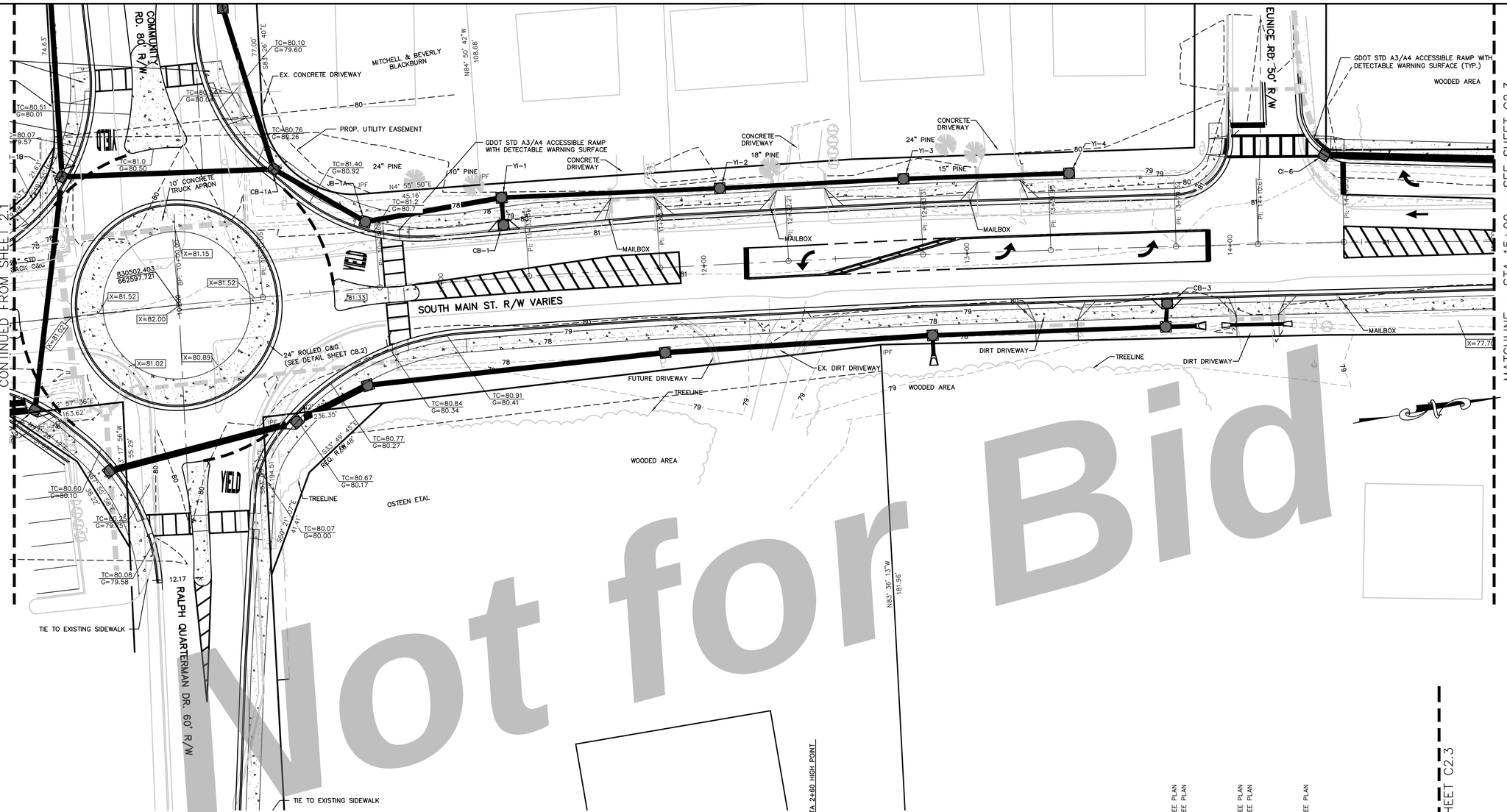
SIMONTON ENGINEERING

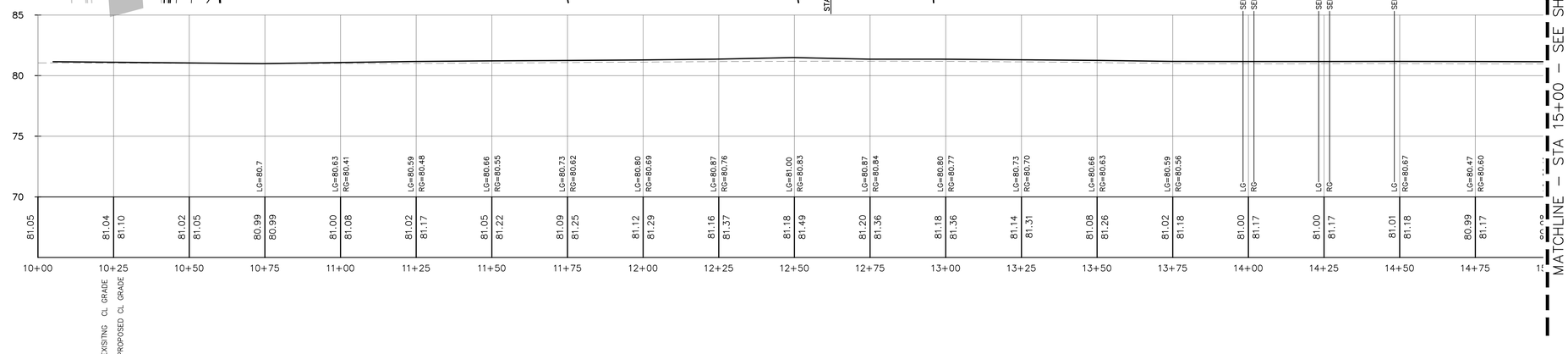
South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-05PRJ
SHEET: C2.1





SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 9-21-22

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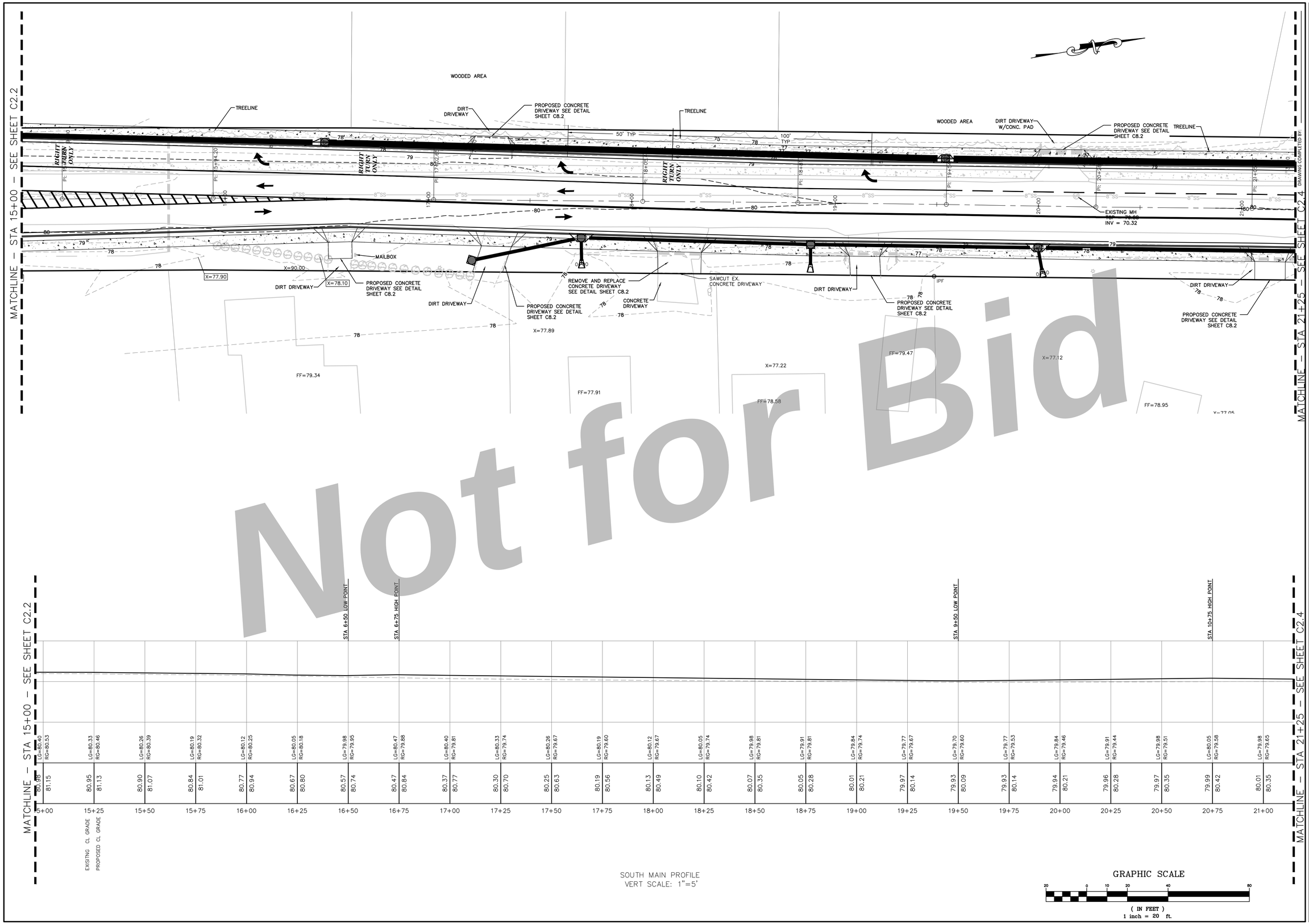
The City of Hinesville
Liberty County, Georgia

Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.2



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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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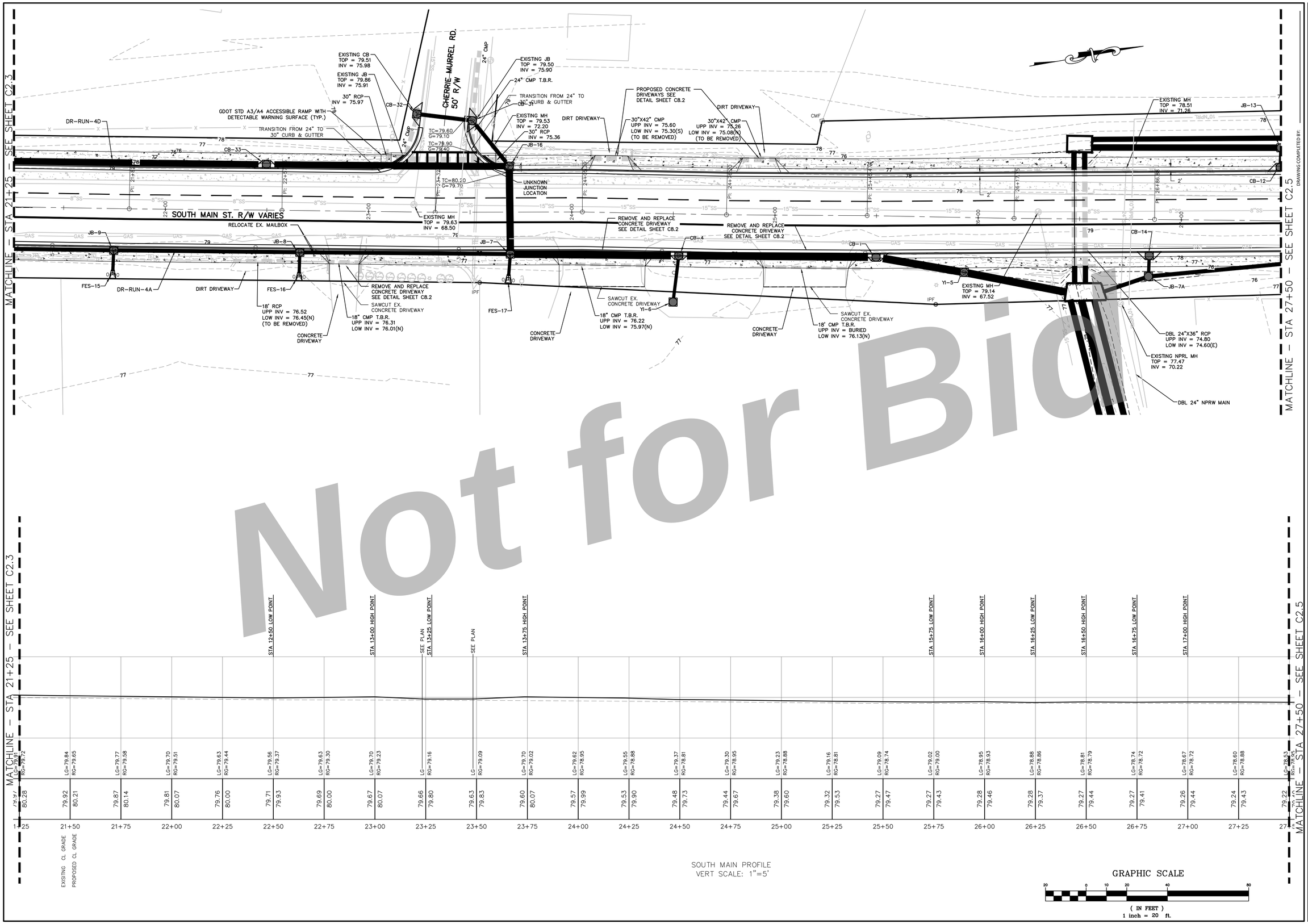
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.3



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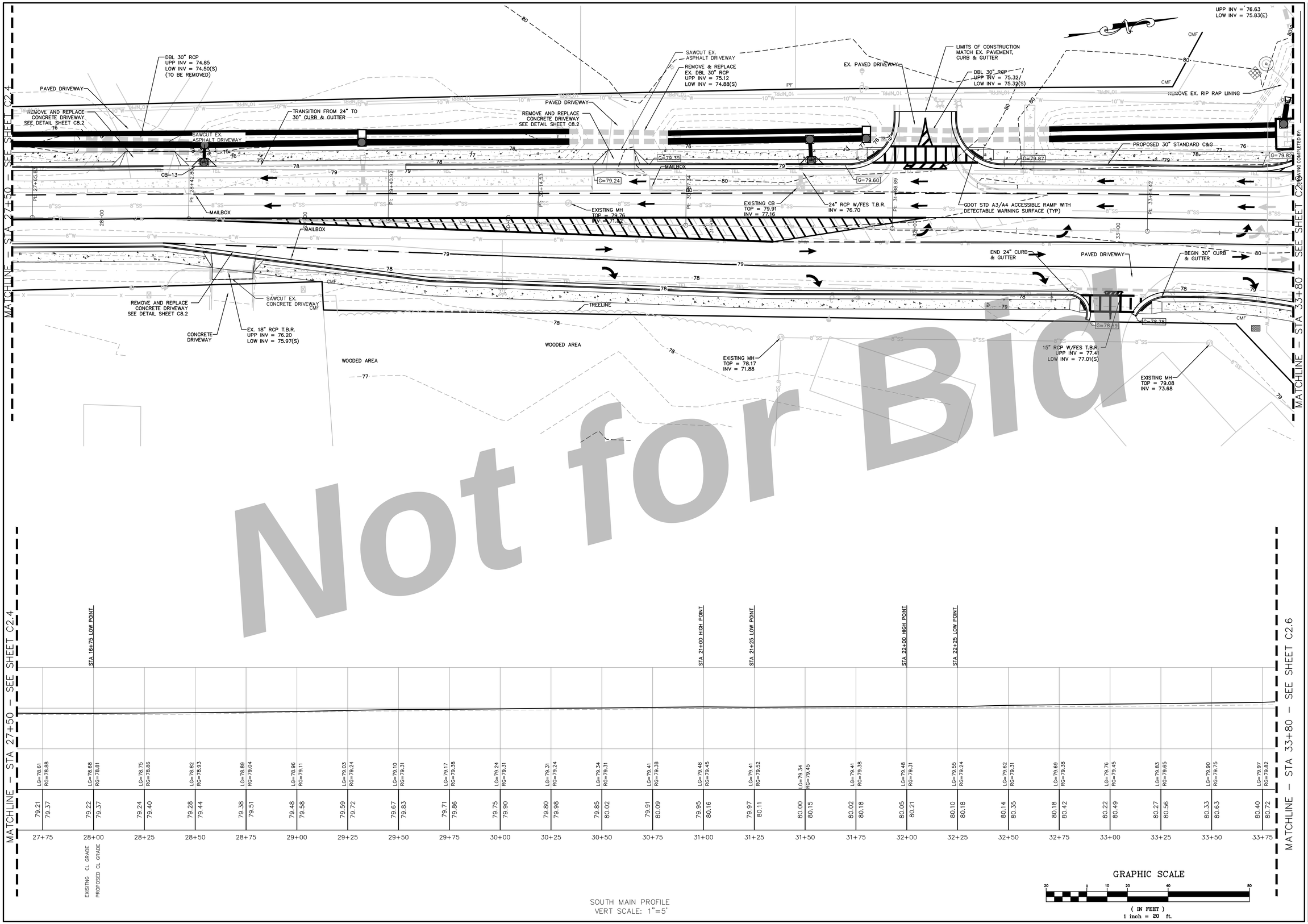
Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.4



SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

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Paul C. Simonton
10-21-23

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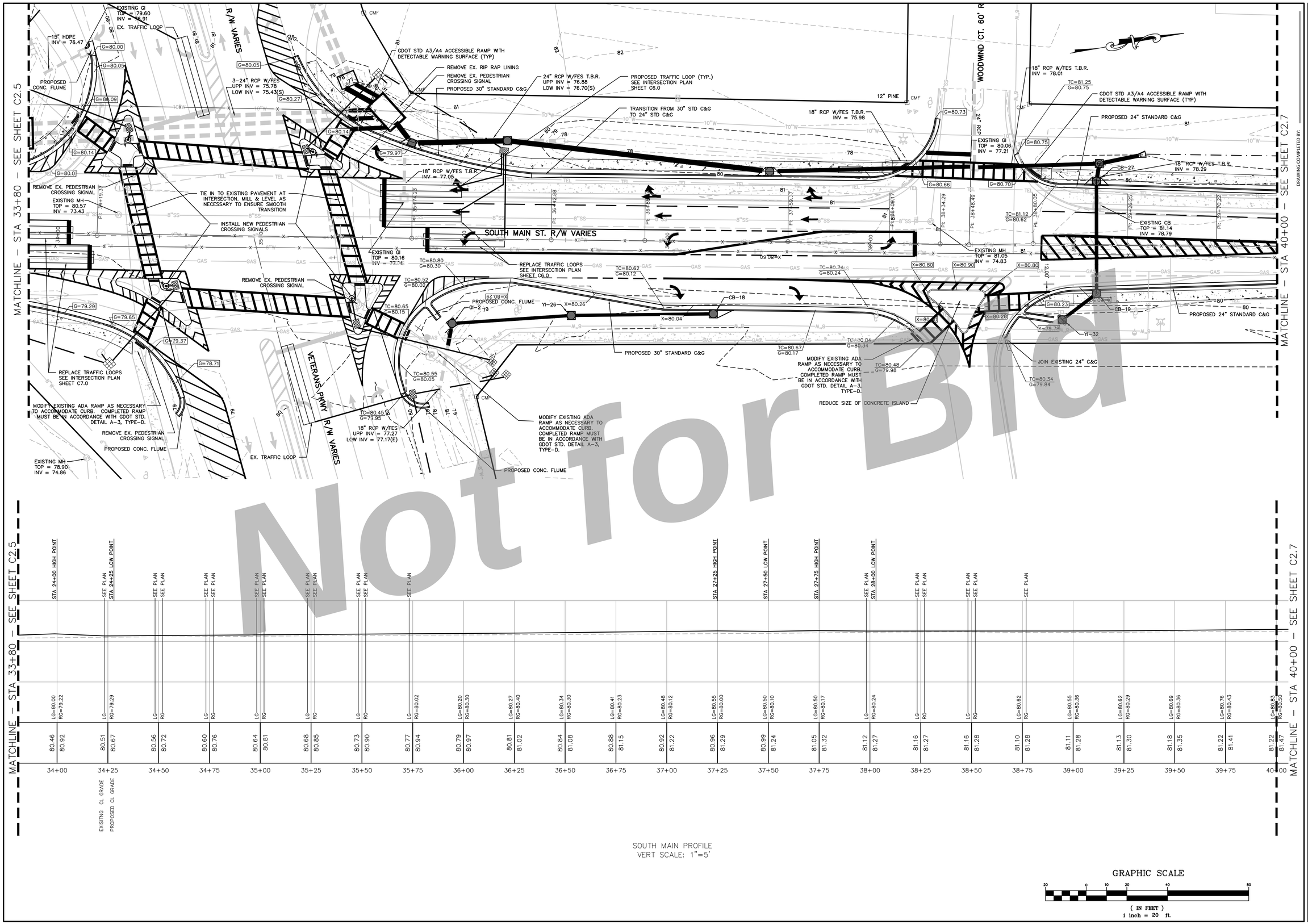
Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.5



STA	LG	RG	EXISTING CL GRADE	PROPOSED CL GRADE
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34+25	79.29	80.51	80.67	
34+50	80.56	80.72		
34+75	80.60	80.76		
35+00	80.64	80.81		
35+25	80.68	80.85		
35+50	80.73	80.90		
35+75	80.77	80.94		
36+00	80.79	80.97		
36+25	80.81	81.02		
36+50	80.84	81.08		
36+75	80.88	81.15		
37+00	80.92	81.22		
37+25	80.96	81.29		
37+50	80.99	81.24		
37+75	81.05	81.32		
38+00	81.12	81.27		
38+25	81.16	81.27		
38+50	81.16	81.28		
38+75	81.10	81.28		
39+00	81.11	81.28		
39+25	81.13	81.30		
39+50	81.18	81.35		
39+75	81.22	81.41		
40+00	81.22	81.47		

STA 24+00 HIGH POINT
SEE PLAN STA 24+25 LOW POINT
STA 27+25 HIGH POINT
STA 27+50 LOW POINT
STA 27+75 HIGH POINT
SEE PLAN STA 28+00 LOW POINT

SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DRAWING COMPLETED BY:

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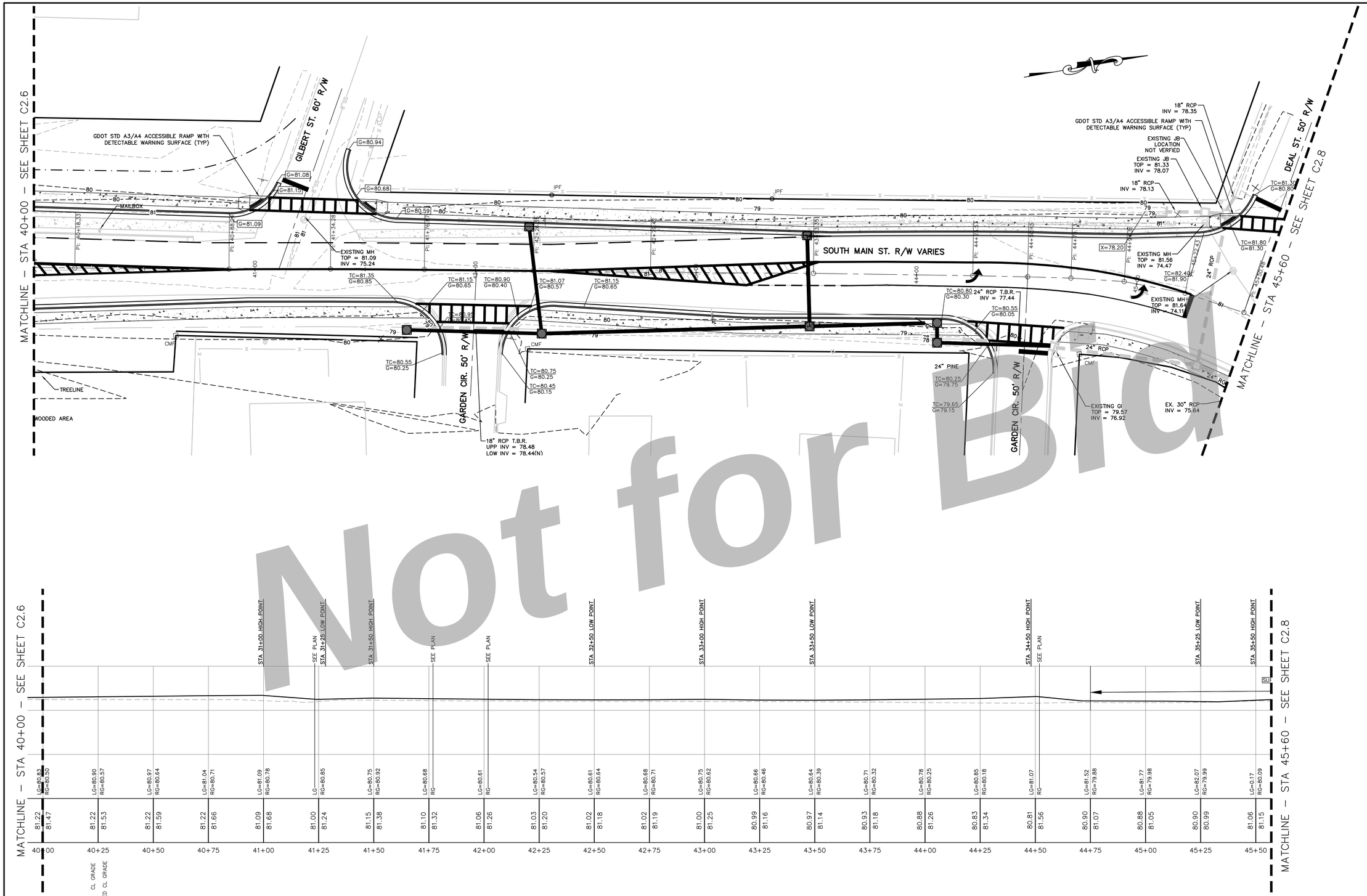
Liberty County, Georgia

Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.6



SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 6-21-22

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Expiration Date: 10-01-23

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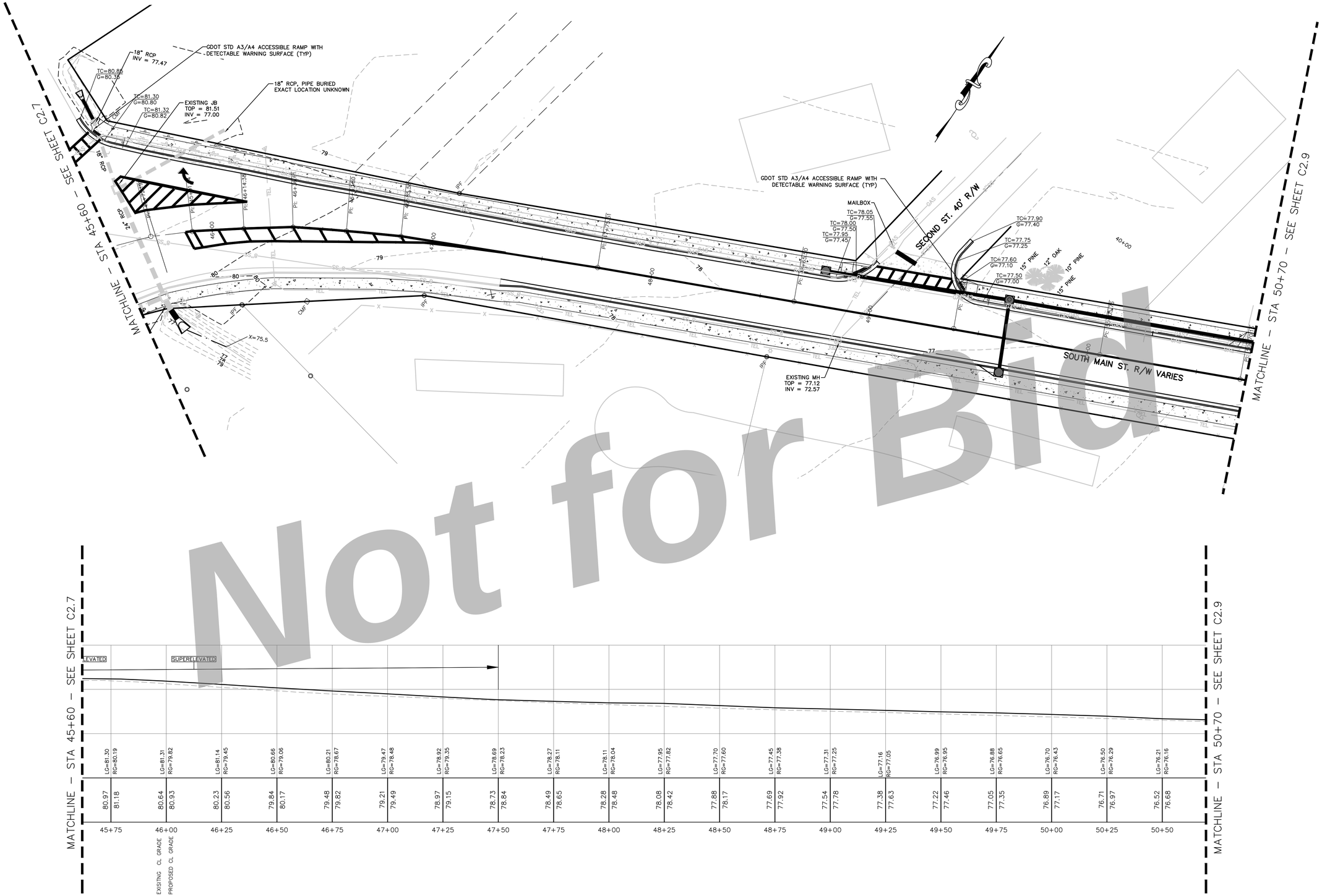
Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.7



SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 4-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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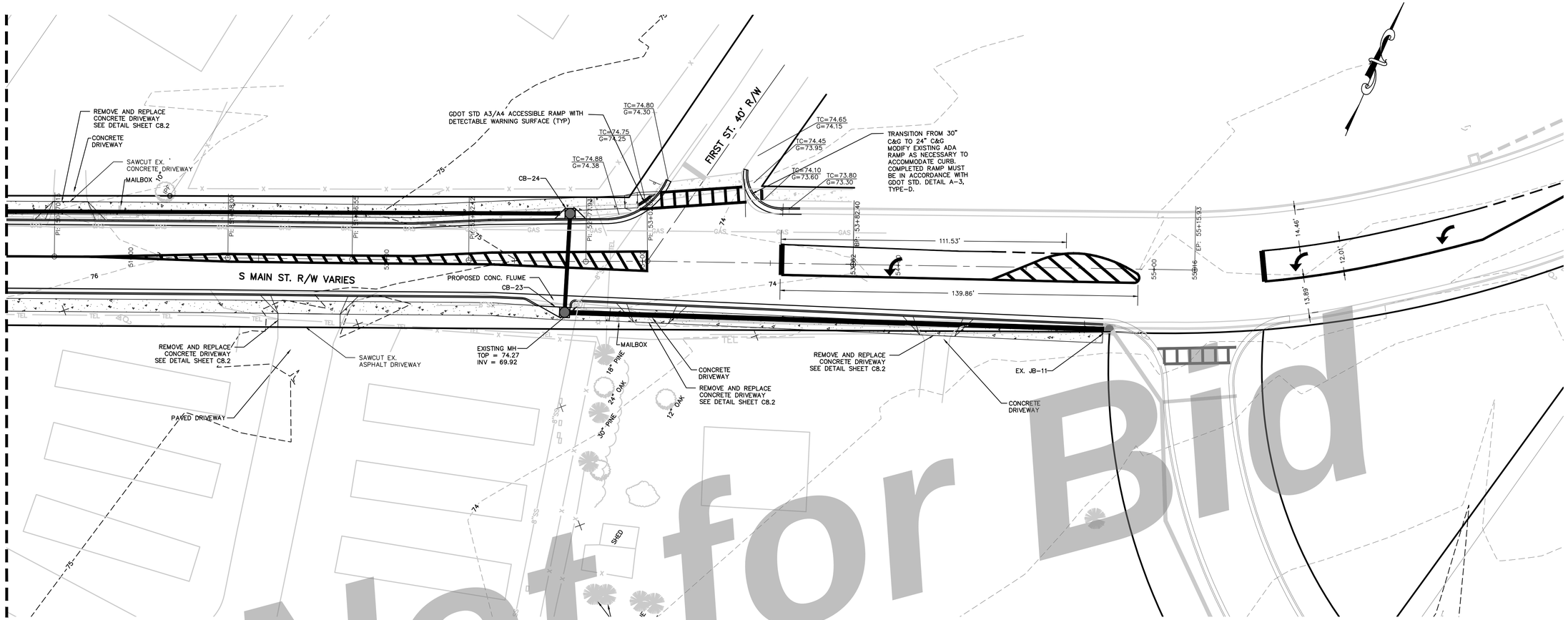
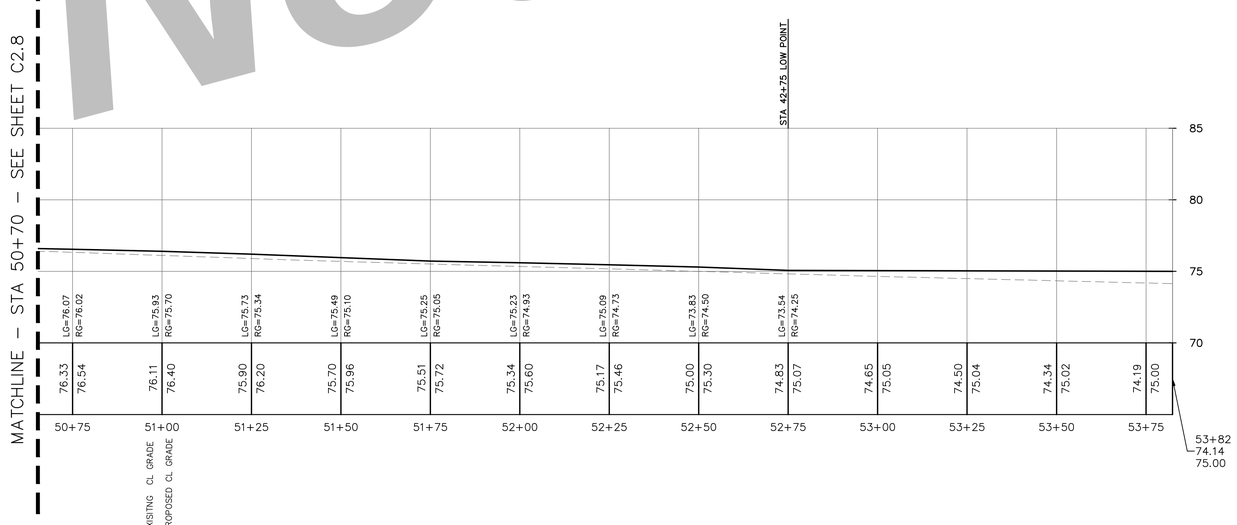
Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.8





SOUTH MAIN PROFILE
VERT SCALE: 1"=5'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 9-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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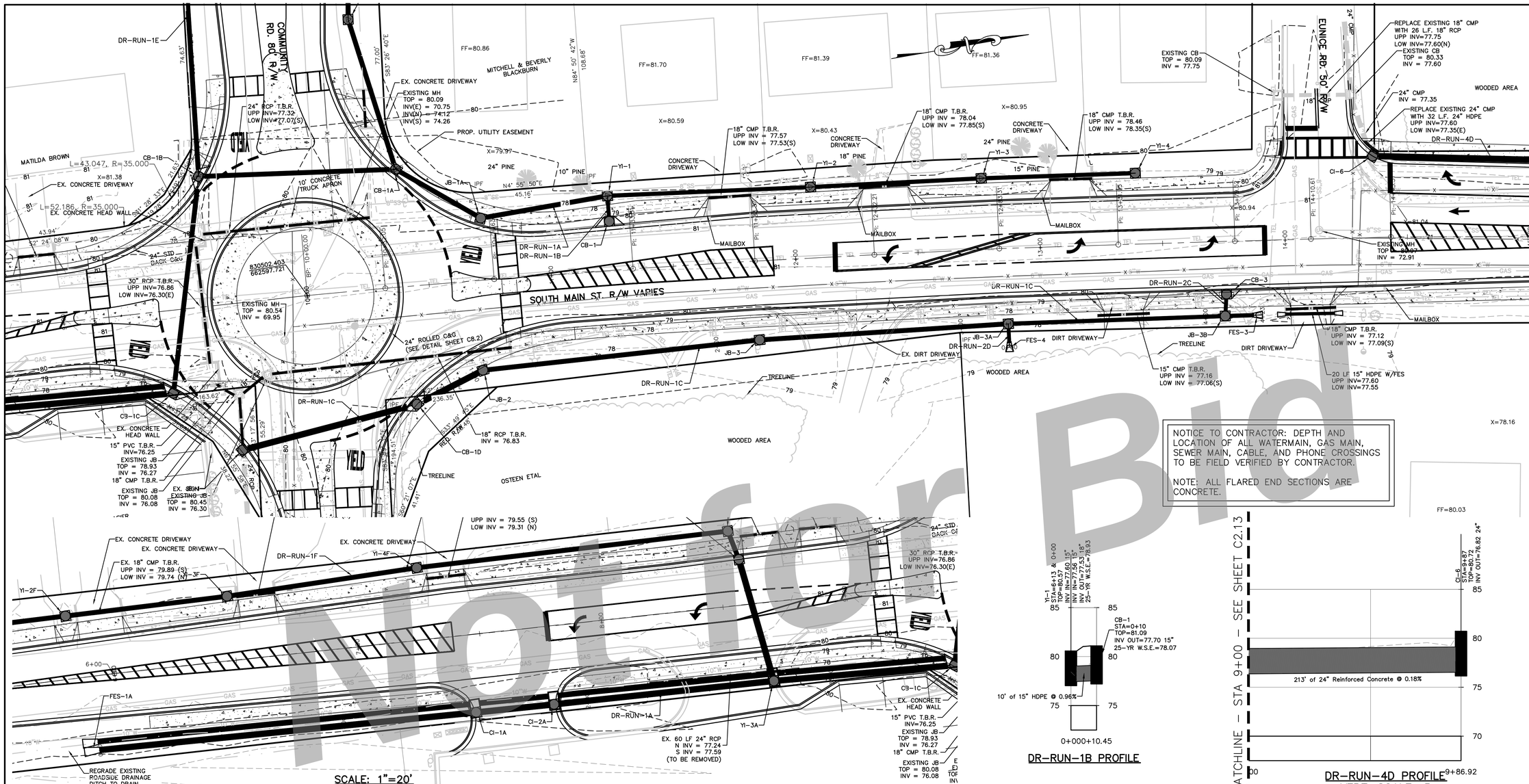
Plan & Profile

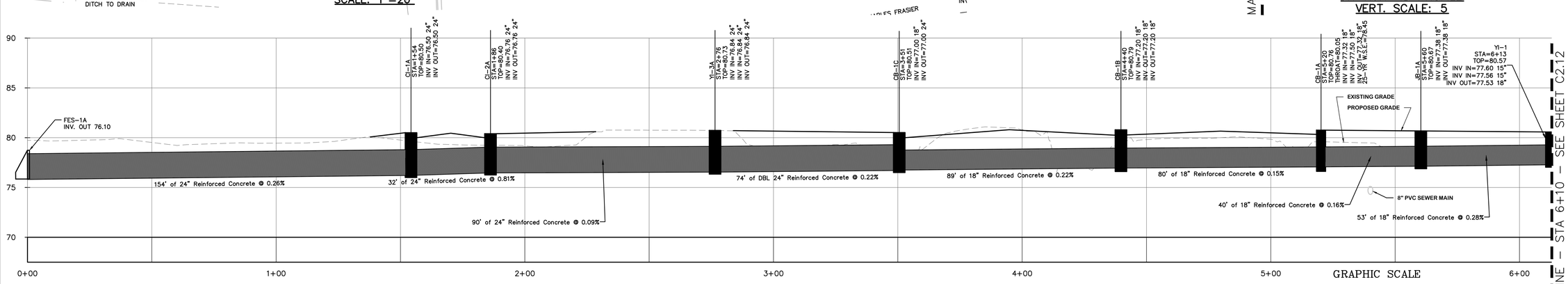
DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.9



SCALE: 1"=20'

DR-RUN-1B PROFILE

DR-RUN-4D PROFILE
VERT. SCALE: 5



DR-RUN-1A PROFILE
VERT. SCALE: 5

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Paul C. Simonton 9-21-22

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Expiration Date: 10-01-23

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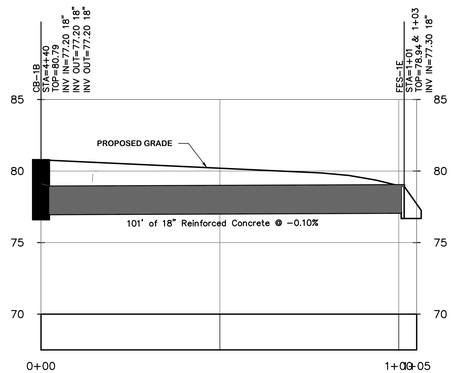
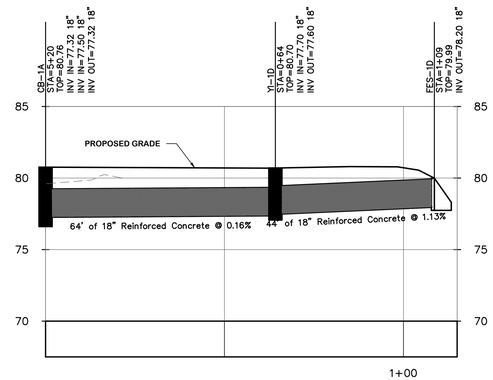
Liberty County, Georgia

Drainage Plan & Profile

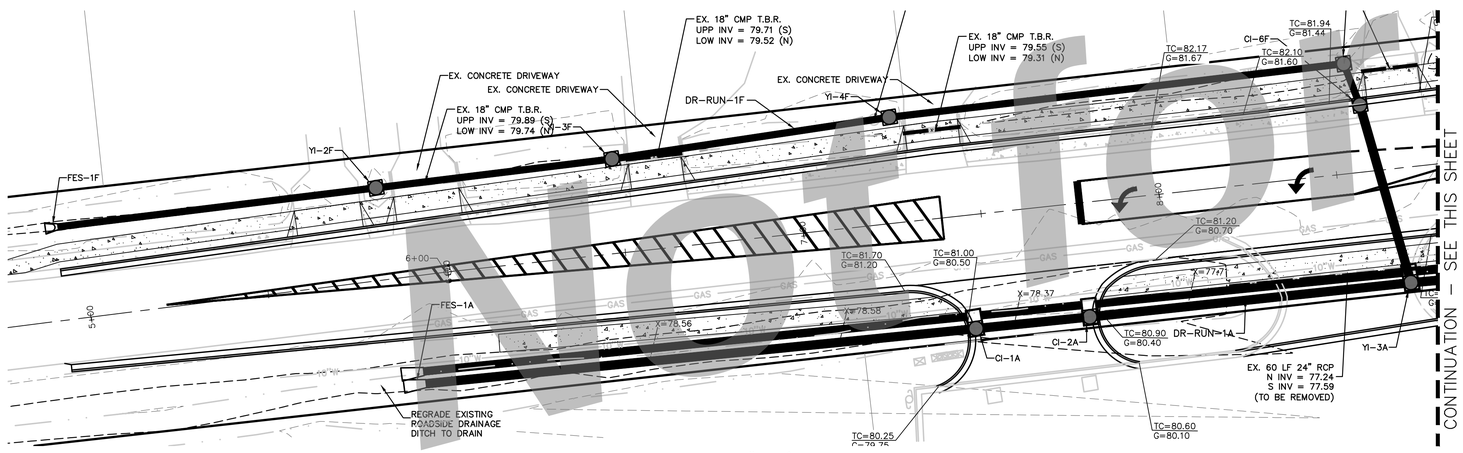
DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.10



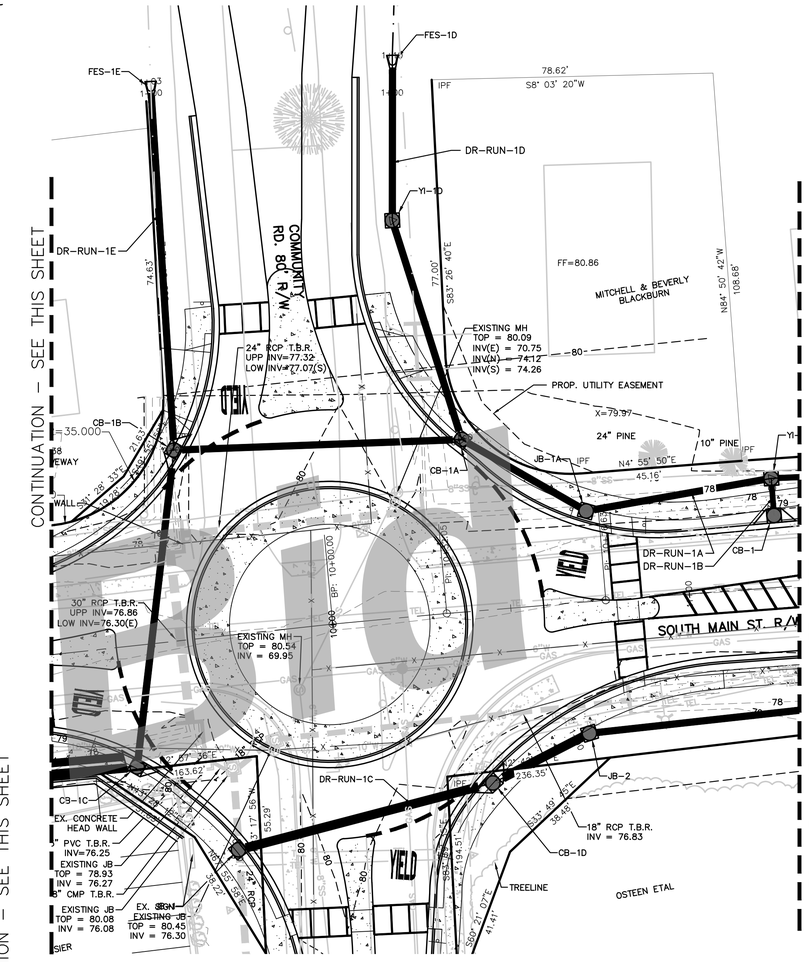
DR-RUN-1E PROFILE
VERT. SCALE: 5

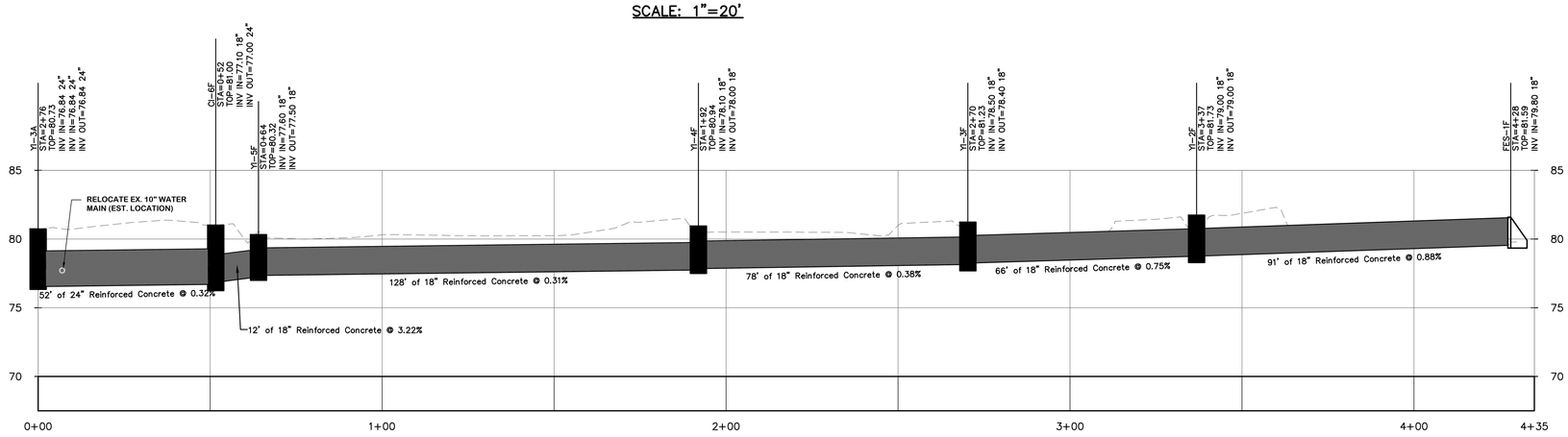


DR-RUN-1D PROFILE
VERT. SCALE: 5



SCALE: 1"=20'





DR-RUN-1F PROFILE
VERT. SCALE: 5

NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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Expiration Date: 10-01-23

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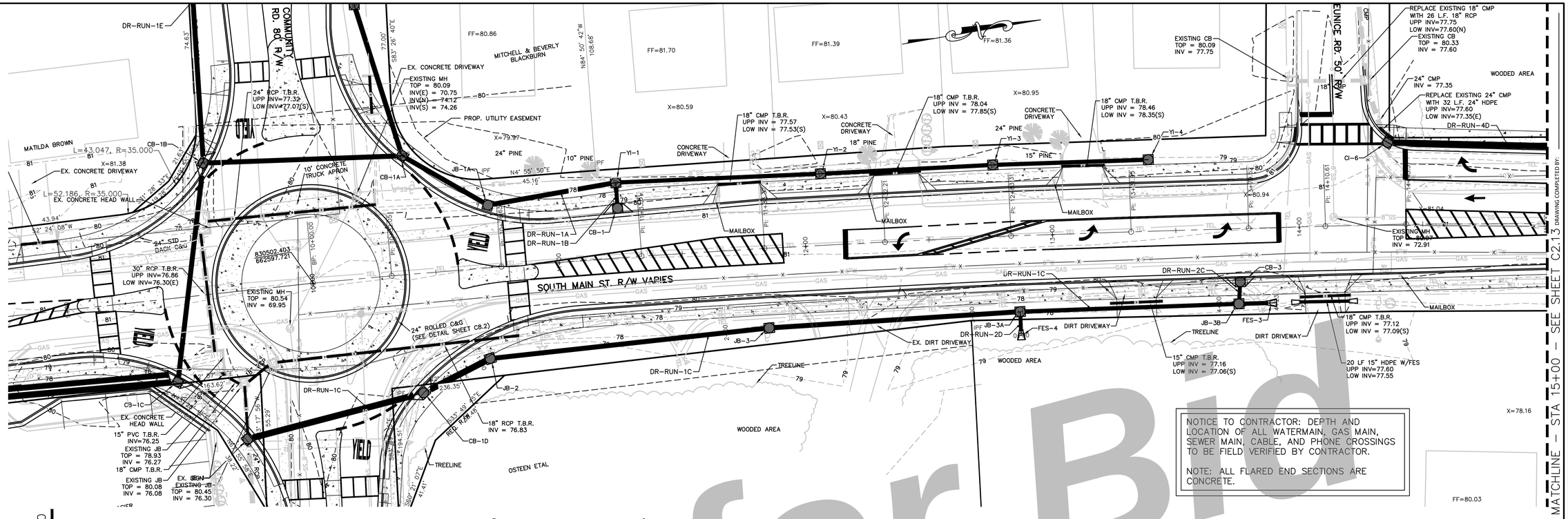
Liberty County, Georgia

Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.11



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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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Drainage Plan & Profile

DATE: August 17, 2020
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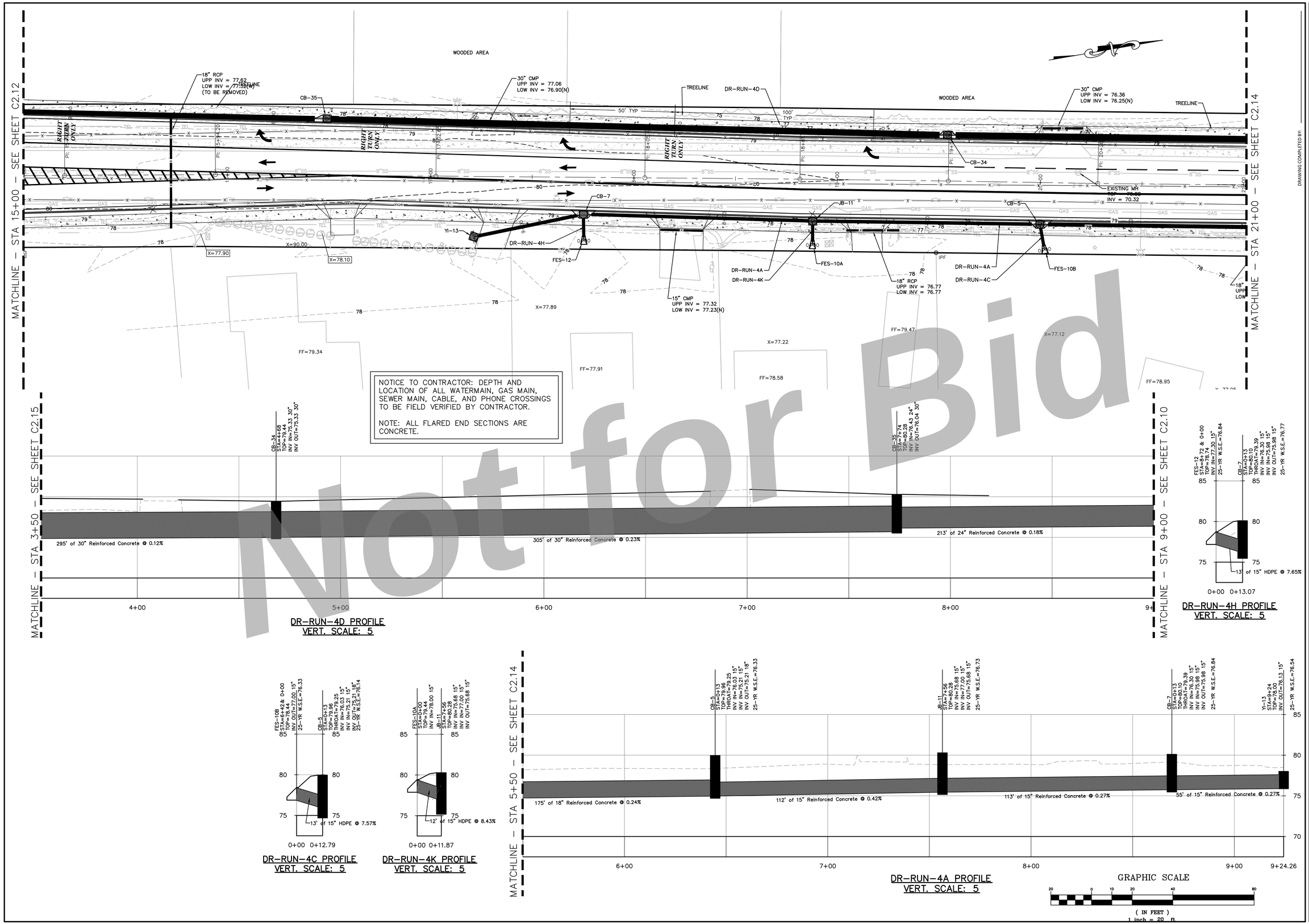
SHEET: C2.12



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Paul C. Simonton 01-21-22

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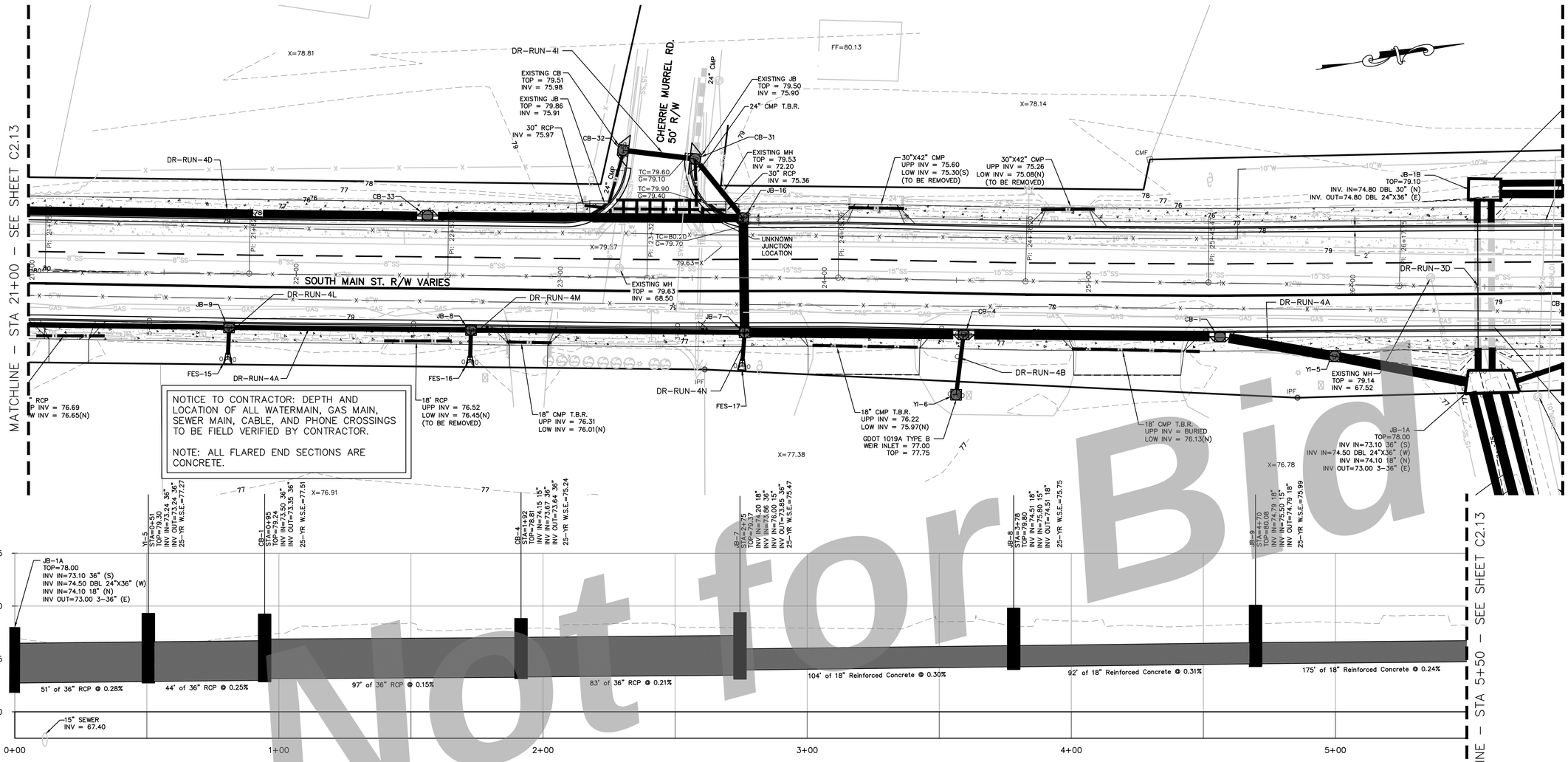
DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.1.3



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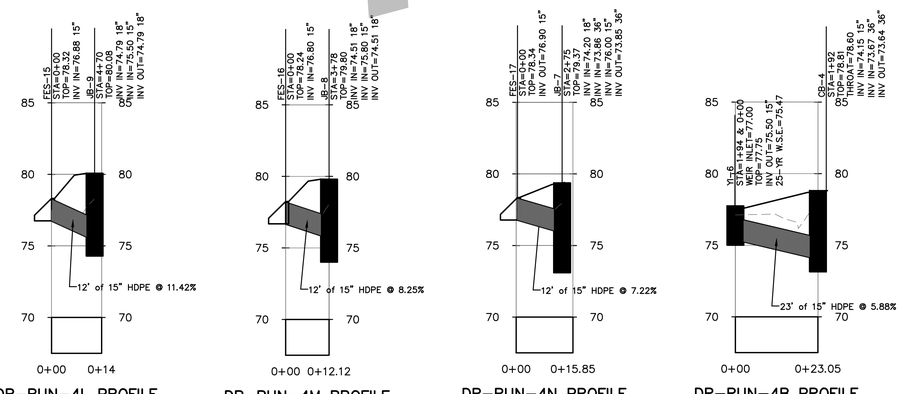
DR-RUN-4A PROFILE
VERT. SCALE: 5



DR-RUN-4L PROFILE
VERT. SCALE: 5

DR-RUN-4M PROFILE
VERT. SCALE: 5

DR-RUN-4N PROFILE
VERT. SCALE: 5

DR-RUN-4B PROFILE
VERT. SCALE: 5

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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Paul C. Simonton
6-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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www.simontonengineering.com

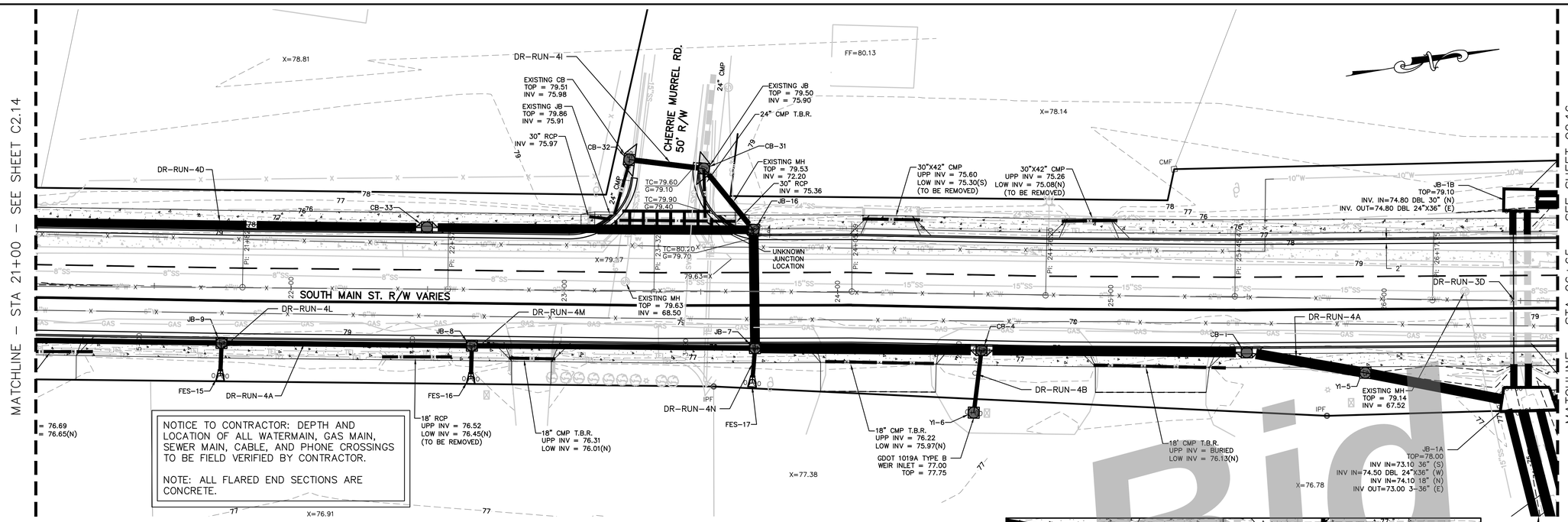
SIMONTON ENGINEERING

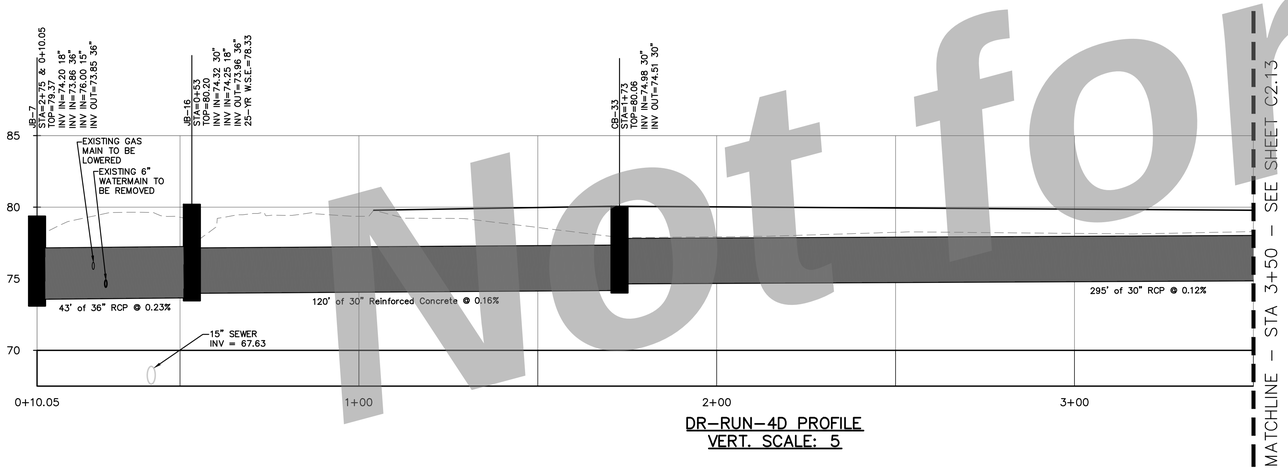
South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

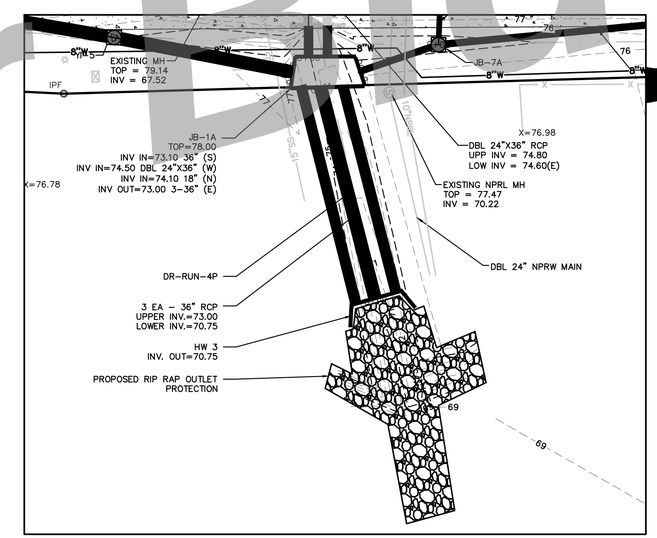
Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.14





DR-RUN-4D PROFILE
VERT. SCALE: 5



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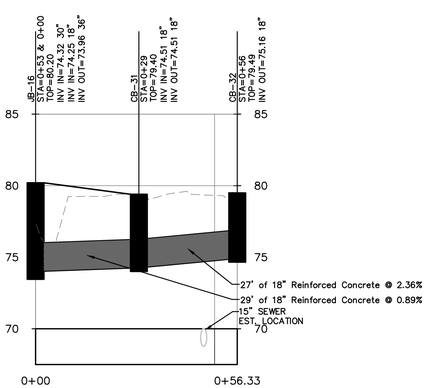
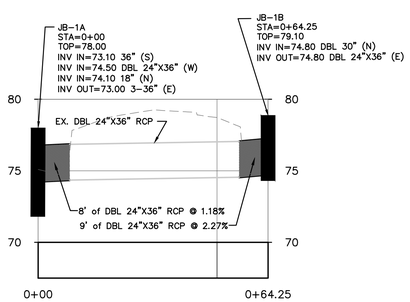
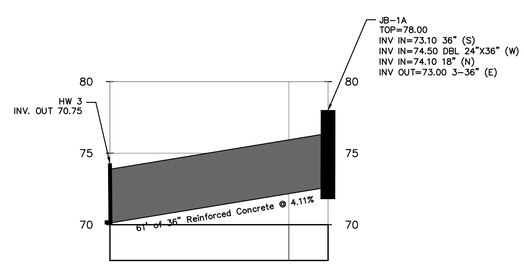


DR-RUN-4I PROFILE
VERT. SCALE: 5



DR-RUN-3D PROFILE
VERT. SCALE: 5



DR-RUN-4P PROFILE
VERT. SCALE: 5

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

Not for Bid

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Paul C. Simonton
6-21-22
Level II Certification No. 935
Expiration Date: 10-01-23

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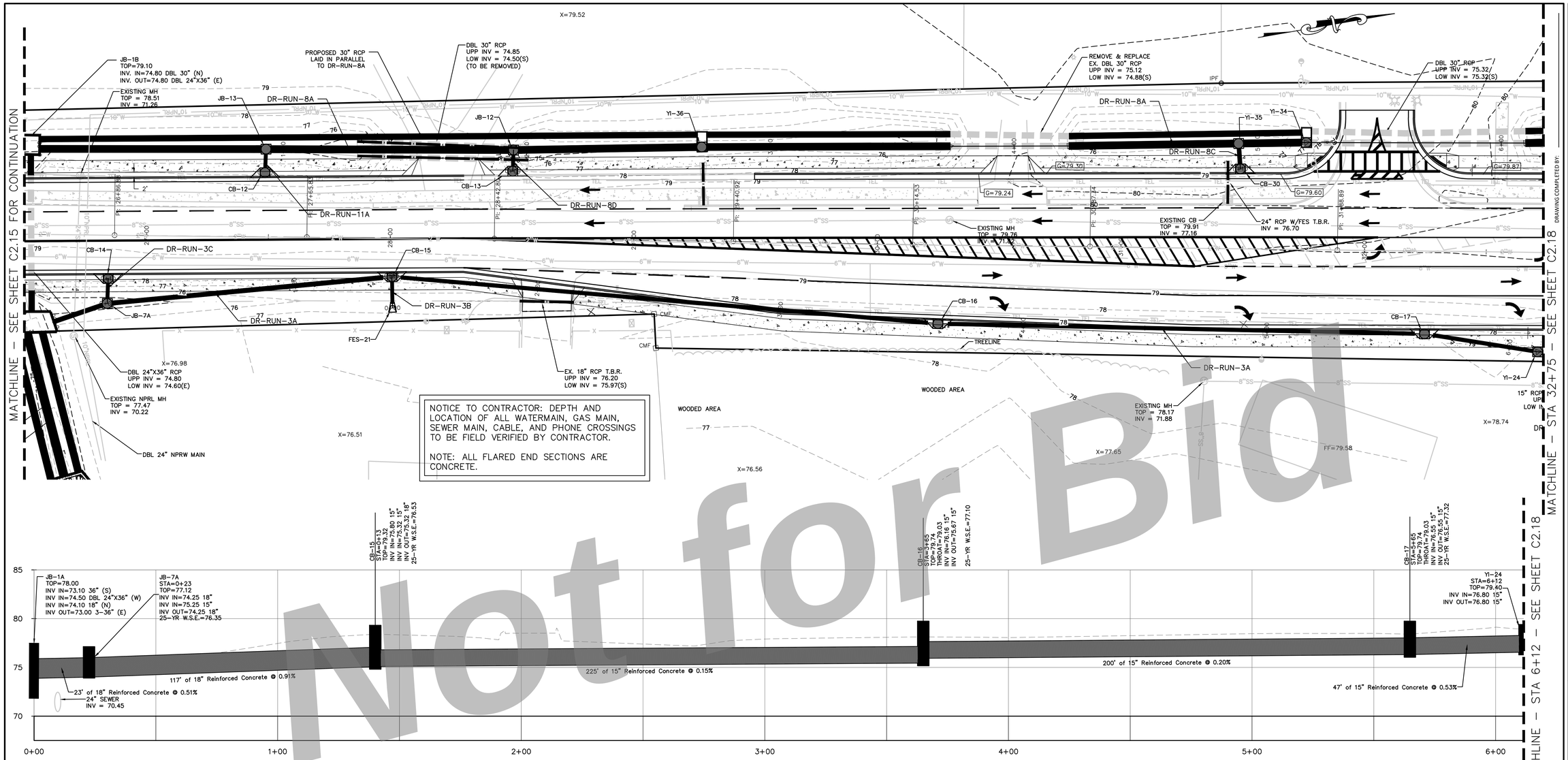
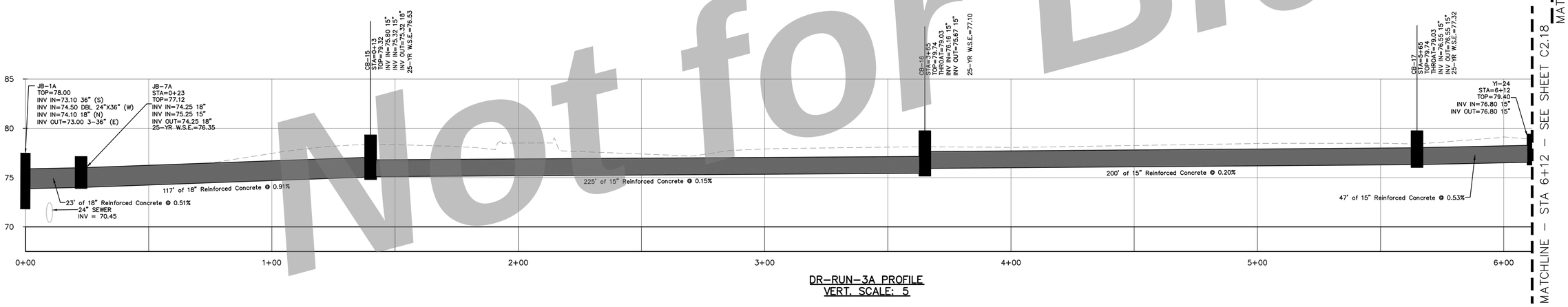
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

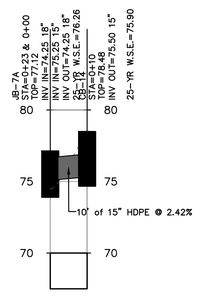
Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.15

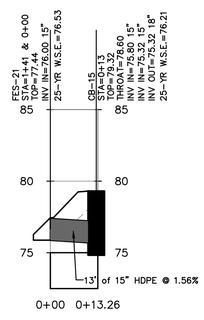




DR-RUN-3A PROFILE
VERT. SCALE: 5



DR-RUN-3C PROFILE
VERT. SCALE: 5



DR-RUN-3B PROFILE
VERT. SCALE: 5

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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South Main Street Widening
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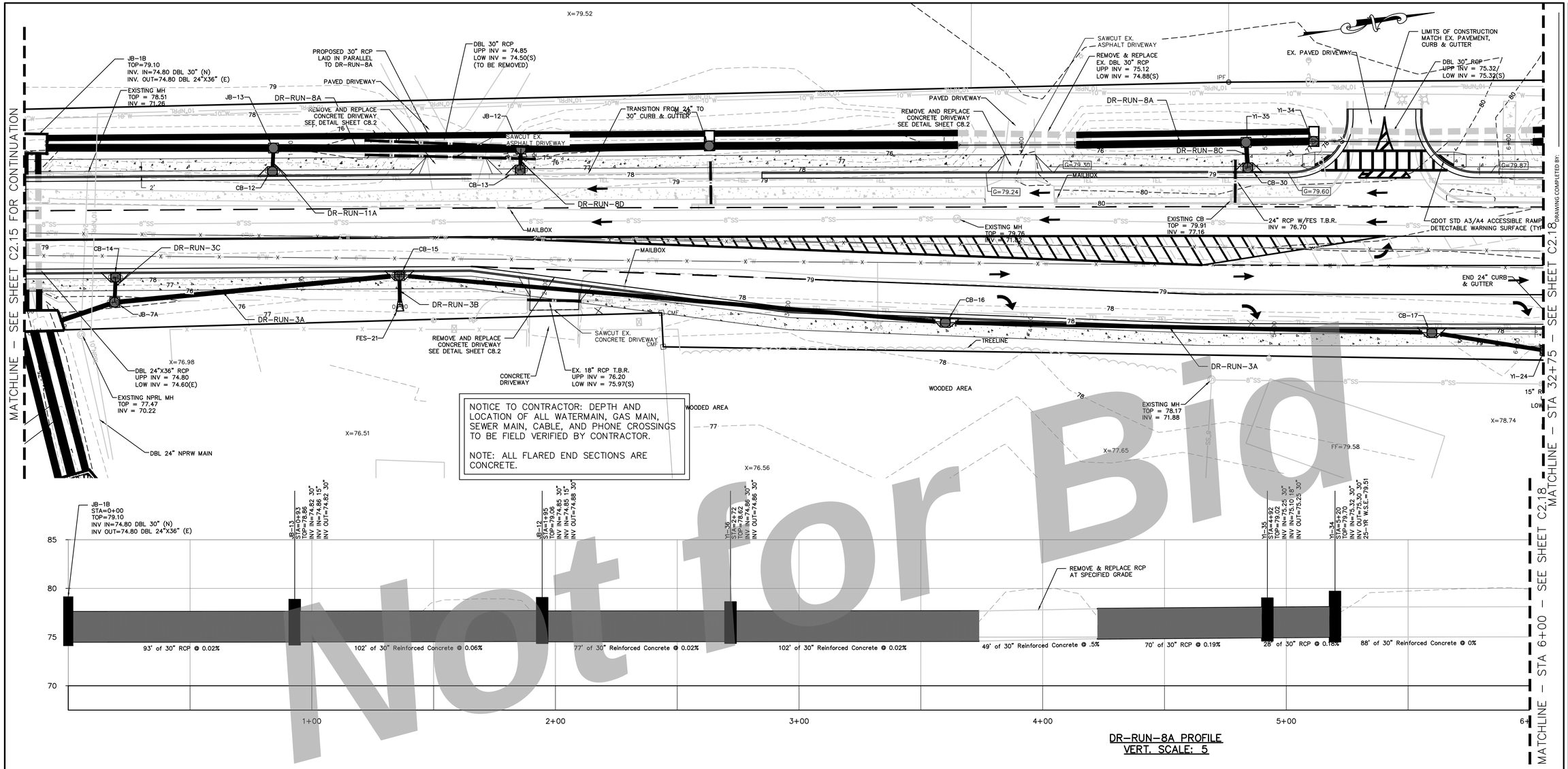
Liberty County, Georgia

Drainage Plan & Profile

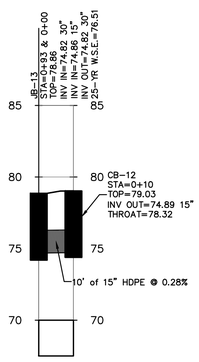
DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C2.16



NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.

DR-RUN-8A PROFILE
VERT. SCALE: 5



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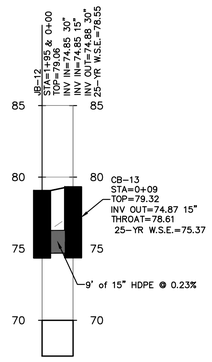

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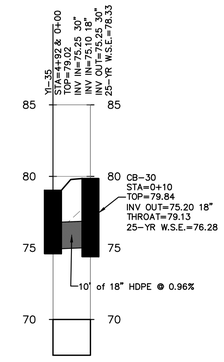
VERT. SCALE: 5



DR-RUN-8C PROFILE
VERT. SCALE: 5

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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No. 23
REGISTERED PROFESSIONAL ENGINEER
Date: 10-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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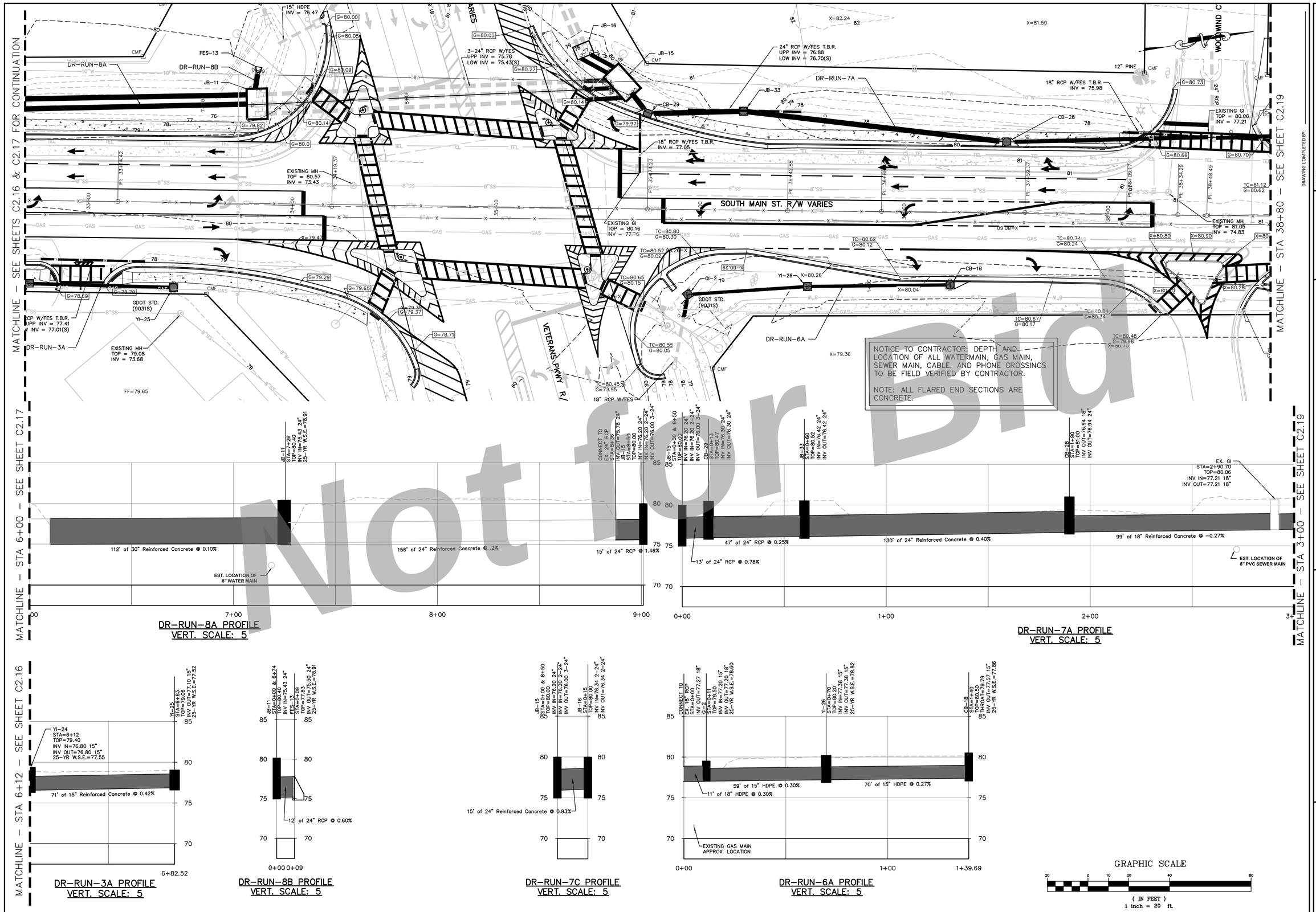
Liberty County, Georgia

Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C2.17



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Level II Certification No. 935
Expiration Date: 10-01-23

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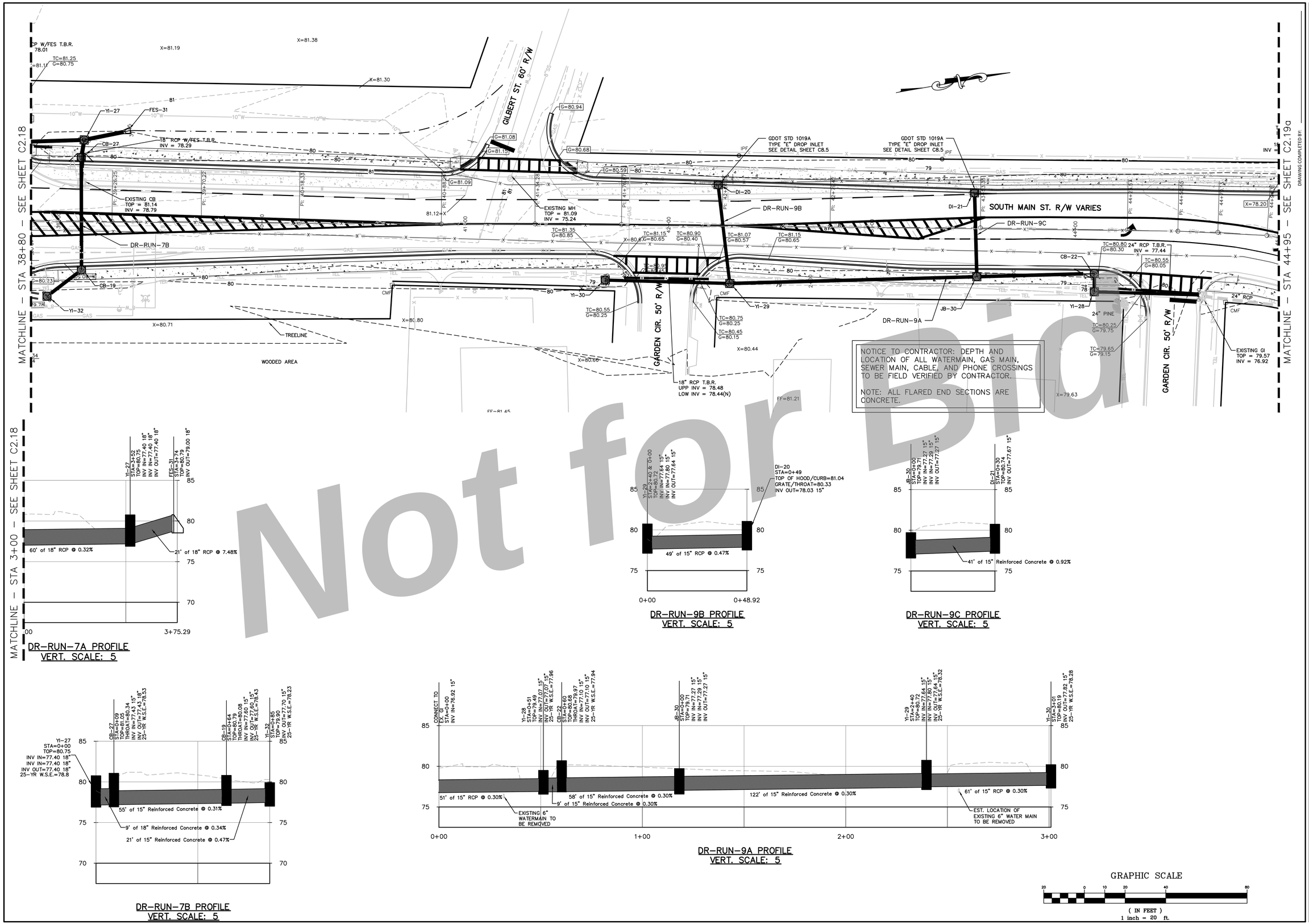
Liberty County, Georgia

Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.18



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REGISTERED PROFESSIONAL ENGINEER No.
Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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South Main Street Widening
for
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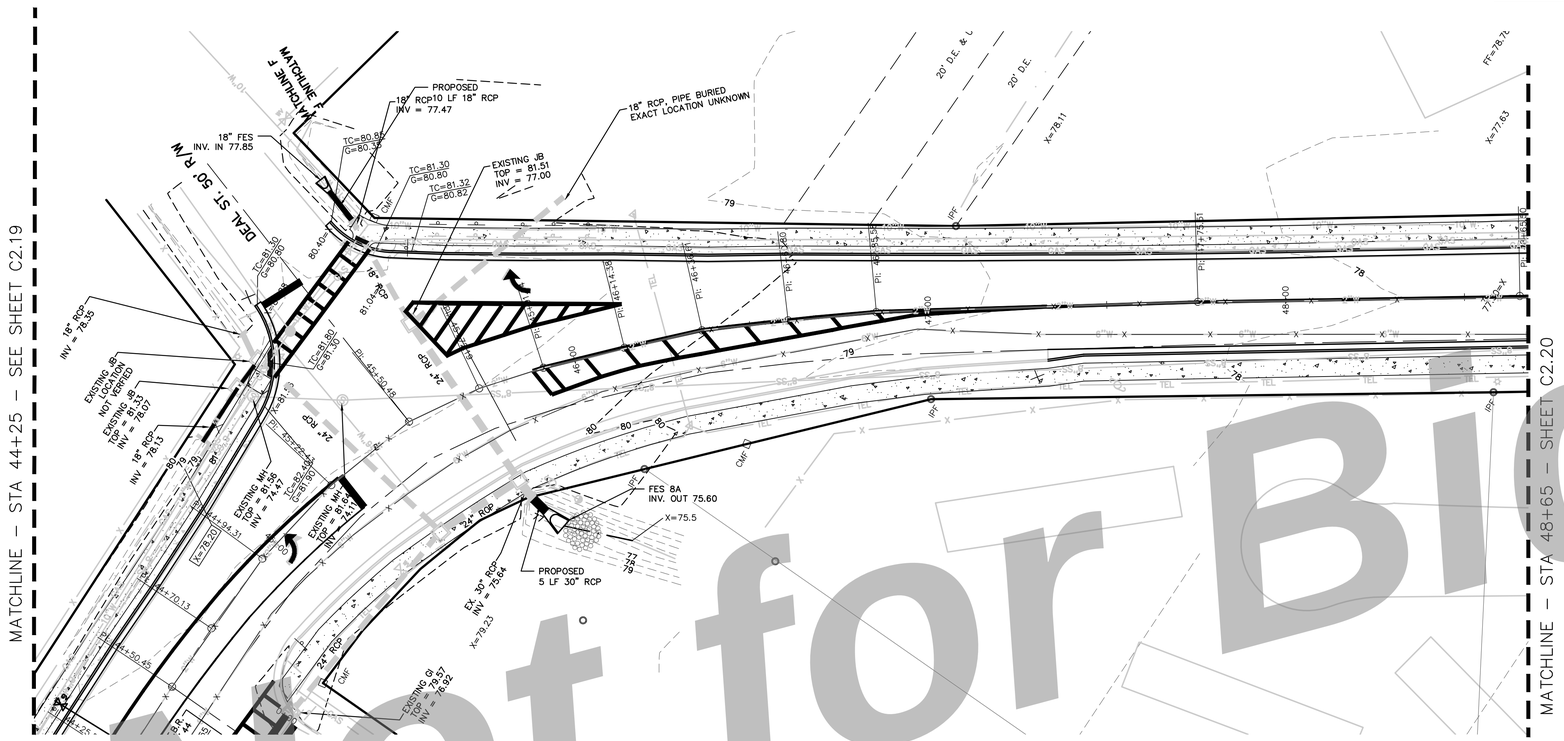
Liberty County, Georgia

Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C2.19

NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 2-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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South Main Street Widening
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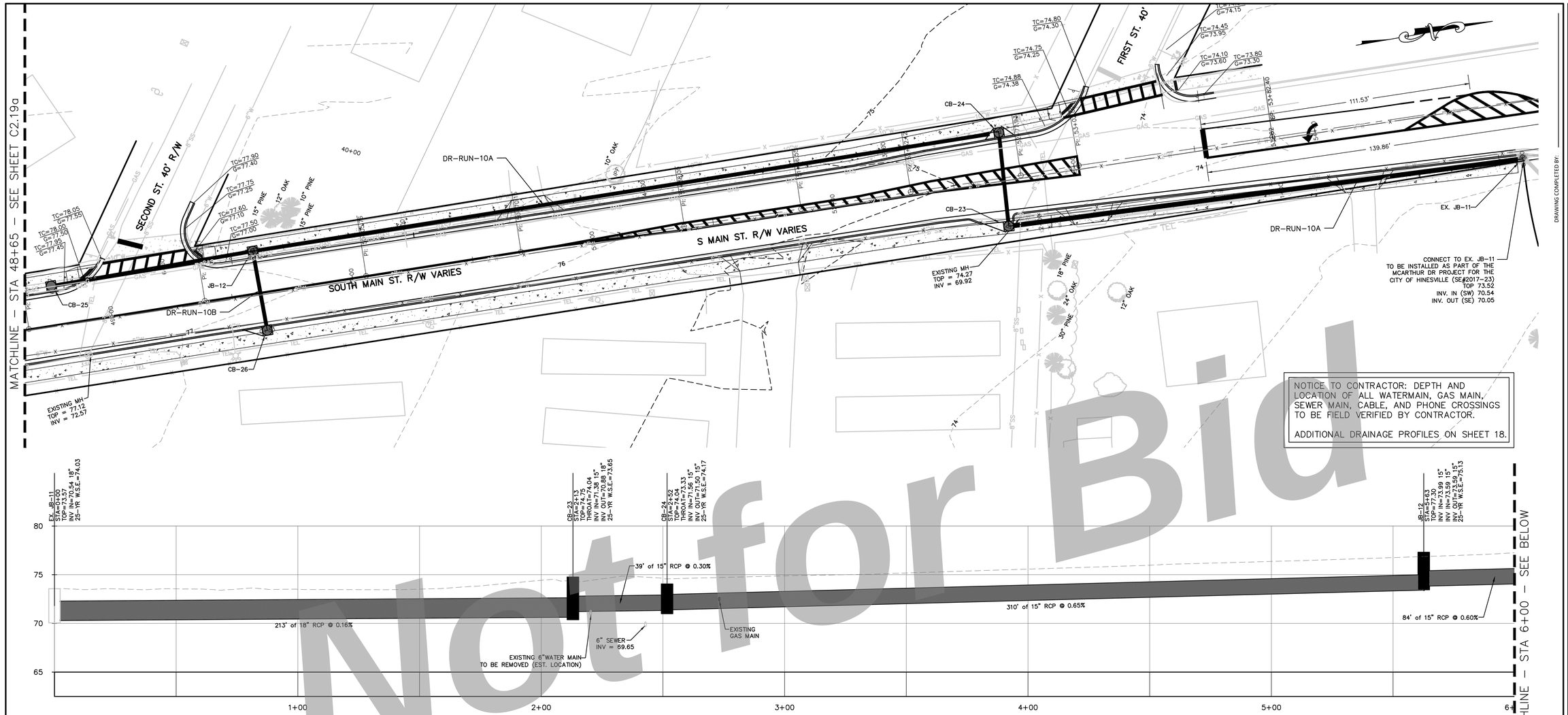
Liberty County, Georgia

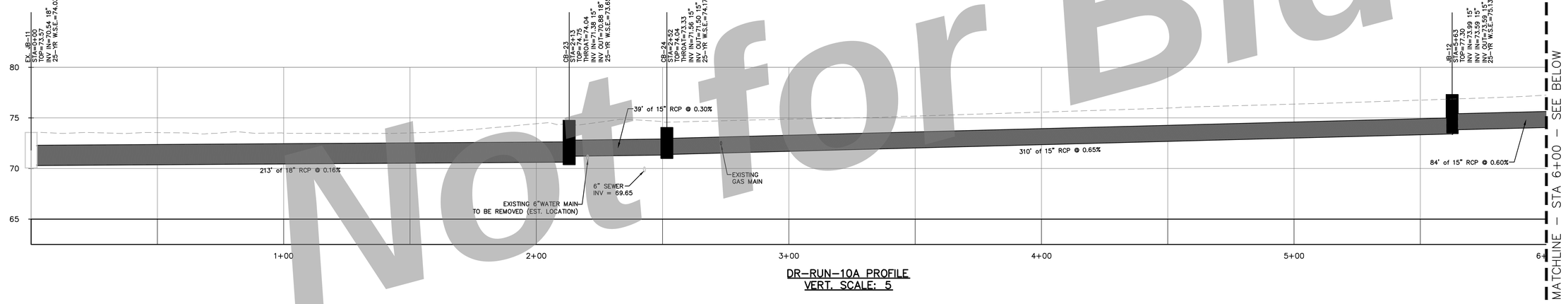
Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C2.19a

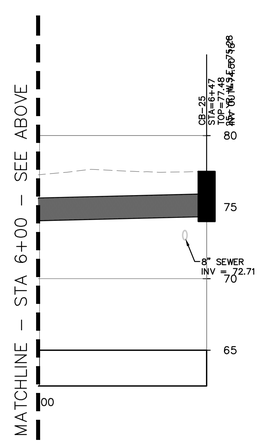


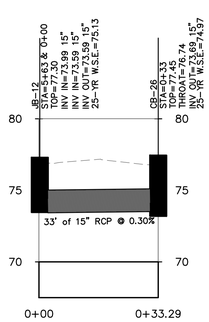
NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

ADDITIONAL DRAINAGE PROFILES ON SHEET 18.



DR-RUN-10A PROFILE
VERT. SCALE: 5





DR-RUN-10B PROFILE
VERT. SCALE: 5

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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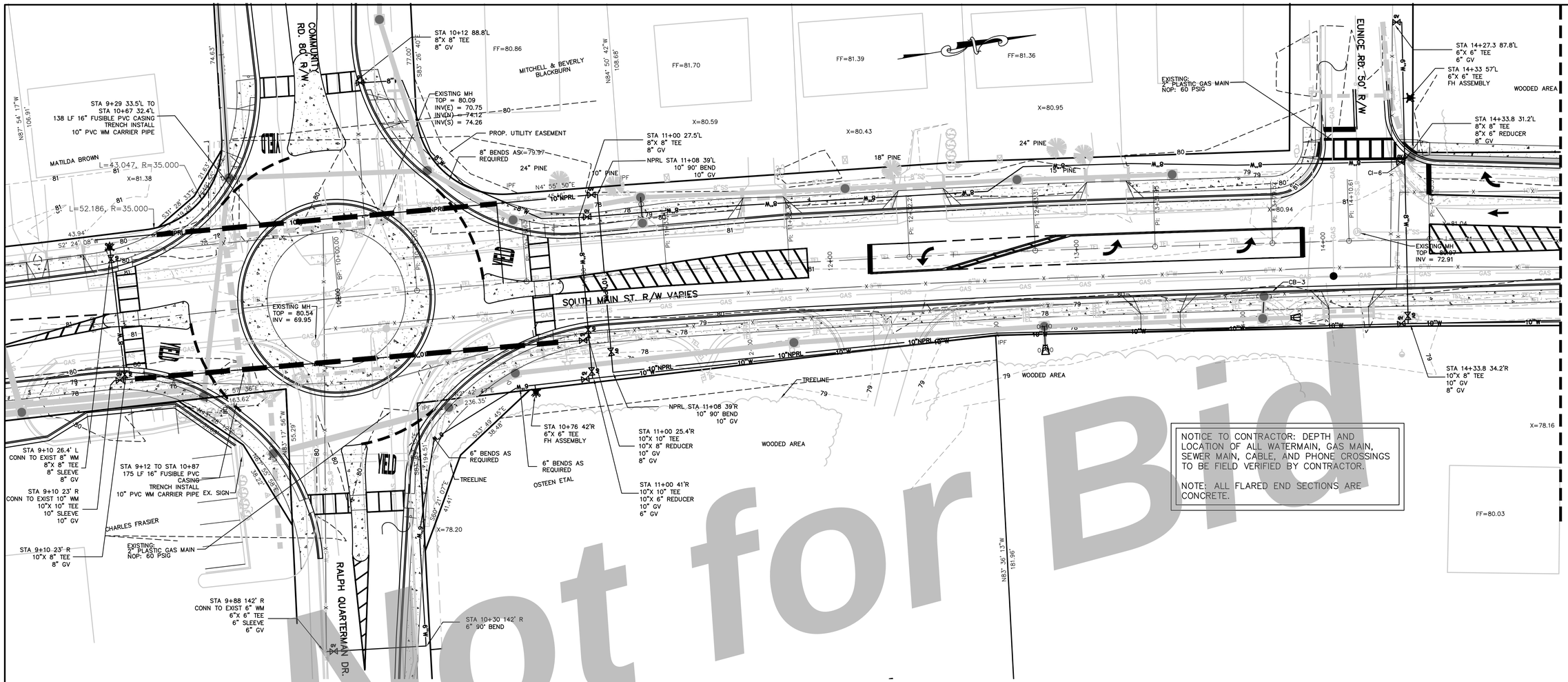
South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Drainage Plan & Profile

DATE: August 17, 2020
FILE NO: 2019-45PRJ
SHEET: C2.20



UTILITY NOTE:
1. PLUG & ABANDON THE WATER MAINS INDICATED EXCEPT WHEN CONFLICTING WITH OTHER CONSTRUCTION TASKS. THOSE SECTIONS THAT CONFLICT WITH OTHER CONSTRUCTION TASKS SHOULD BE REMOVED BY THE CONTRACTOR.
2. SEWER SERVICES WILL BE LOCATED DURING UTILITY LOCATE.

UTILITY OWNER & CONTACT INFORMATION:
ESG HINESVILLE PUBLIC WORKS
CONTACT: ROBERT NORBY
PHONE #: (912) 876-8216

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 15821 PAUL C. SIMONTON
Paul C. Simonton 8-21-20

Level II Certification No. 935
Expiration Date: 10-01-25

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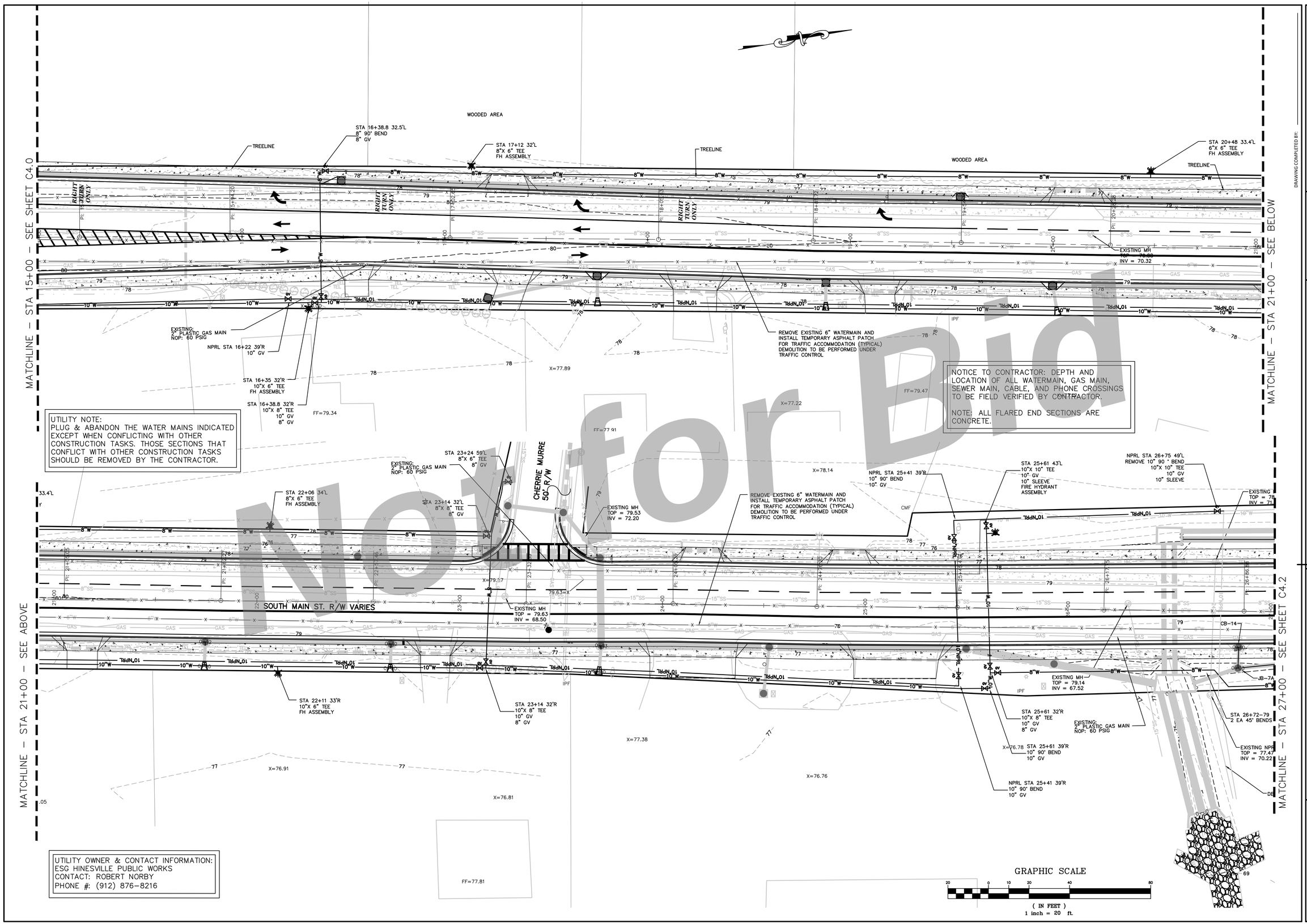
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Utility Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C4.0



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GEORGIA REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON

Paul C. Simonton 4-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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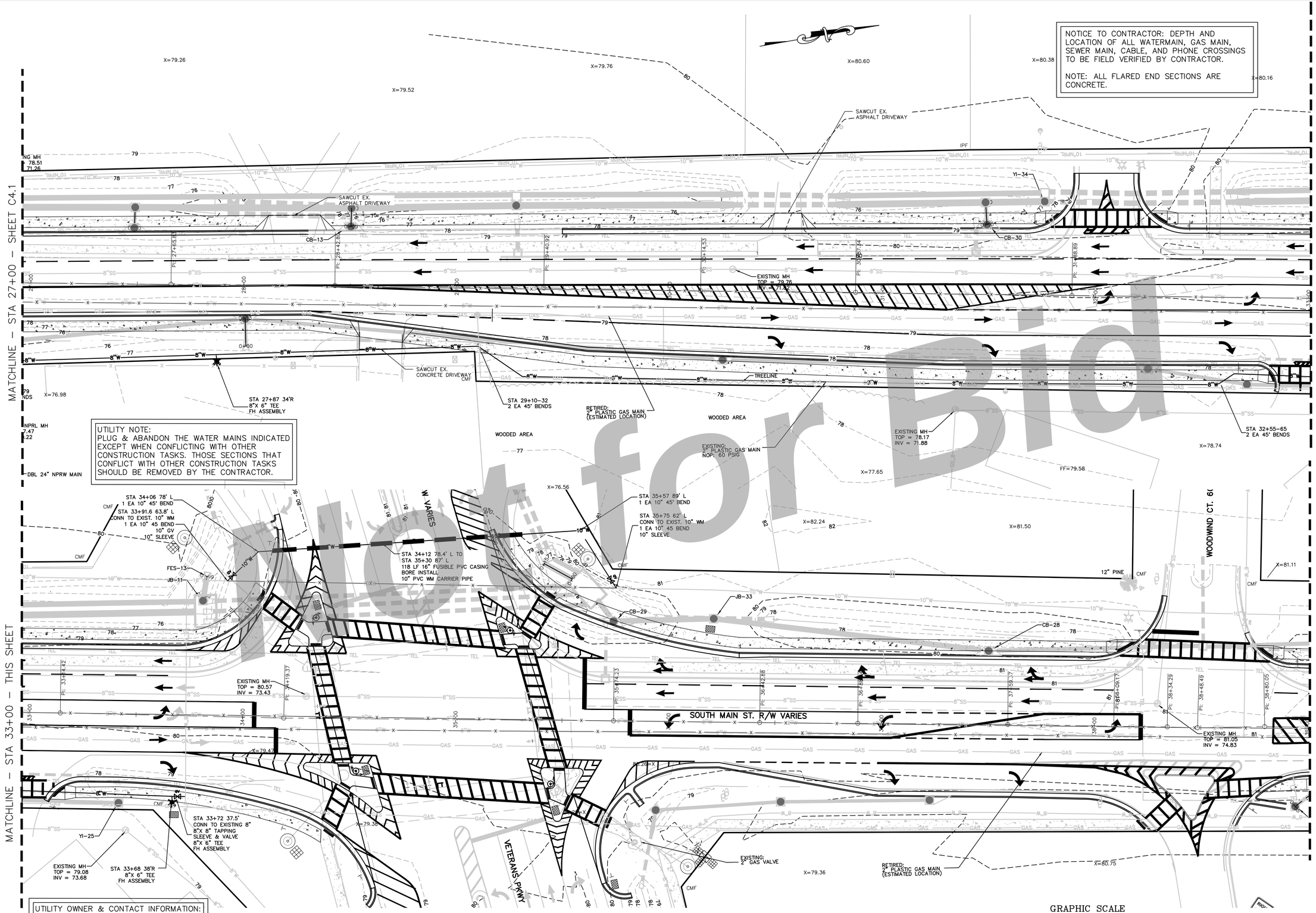
Liberty County, Georgia

Utility Plan

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C4.1



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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 35935 PAUL C. SIMONTON

Paul C. Simonton 8-01-22

Level II Certification No. 935
Expiration Date: 10-01-23

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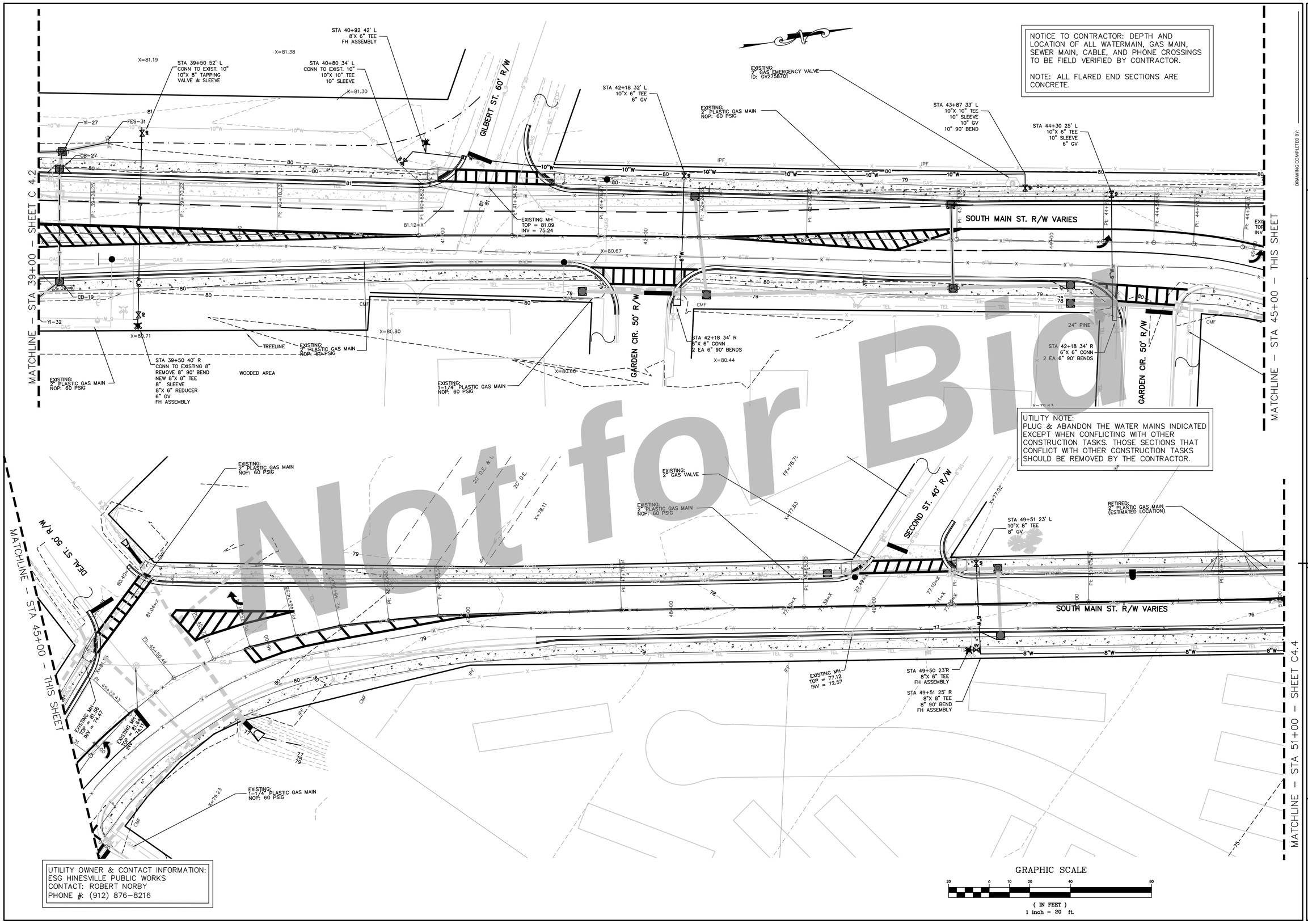
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Utility Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C4.2



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GEORGE REGISTERED No. 935 PROFESSIONAL ENGINEER PAUL C. SIMONTON

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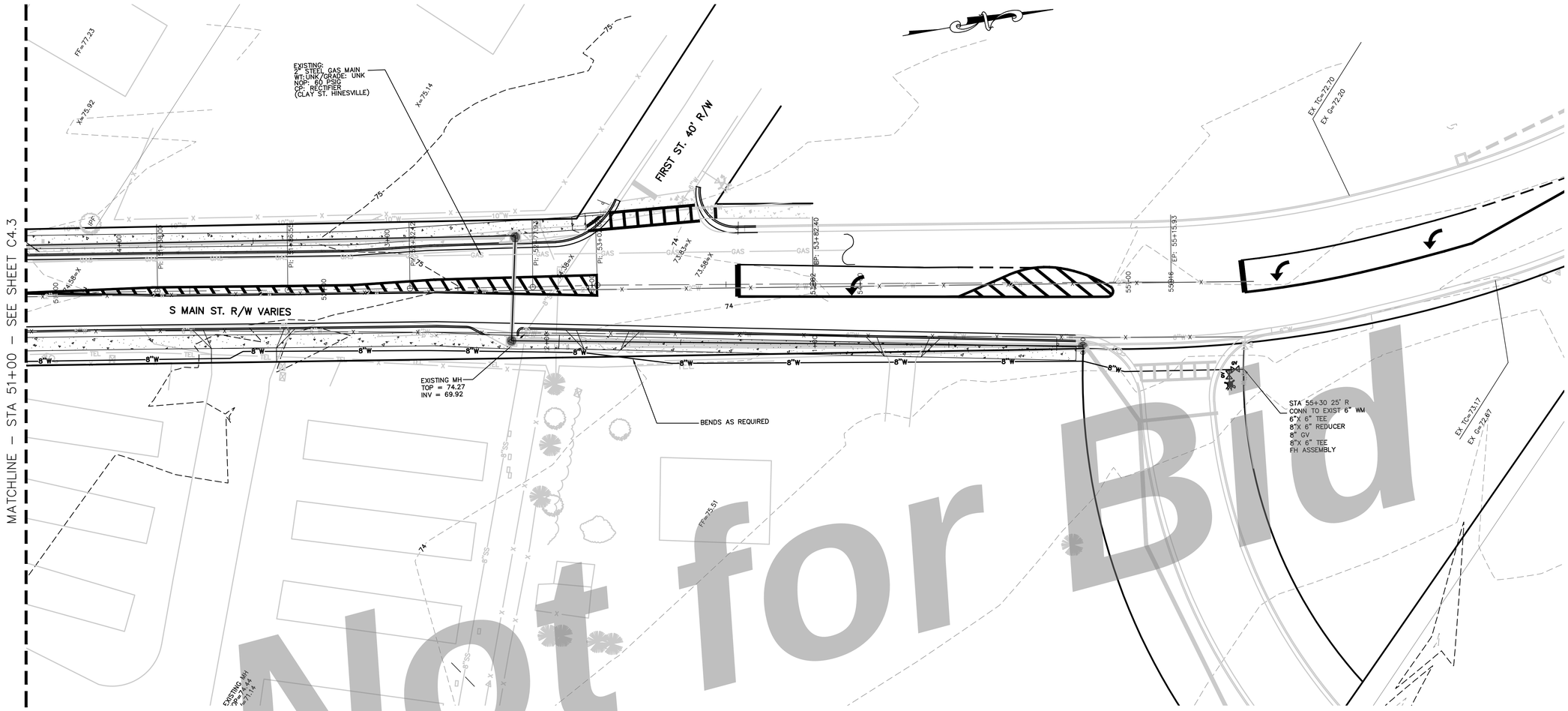

UTILITY NOTE:
PLUG & ABANDON THE WATER MAINS INDICATED EXCEPT WHEN CONFLICTING WITH OTHER CONSTRUCTION TASKS. THOSE SECTIONS THAT CONFLICT WITH OTHER CONSTRUCTION TASKS SHOULD BE REMOVED BY THE CONTRACTOR.

UTILITY OWNER & CONTACT INFORMATION:
ESG HINESVILLE PUBLIC WORKS
CONTACT: ROBERT NORBY
PHONE #: (912) 876-8216

NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 9335 PAUL C. SIMONTON
Paul C. Simonton
8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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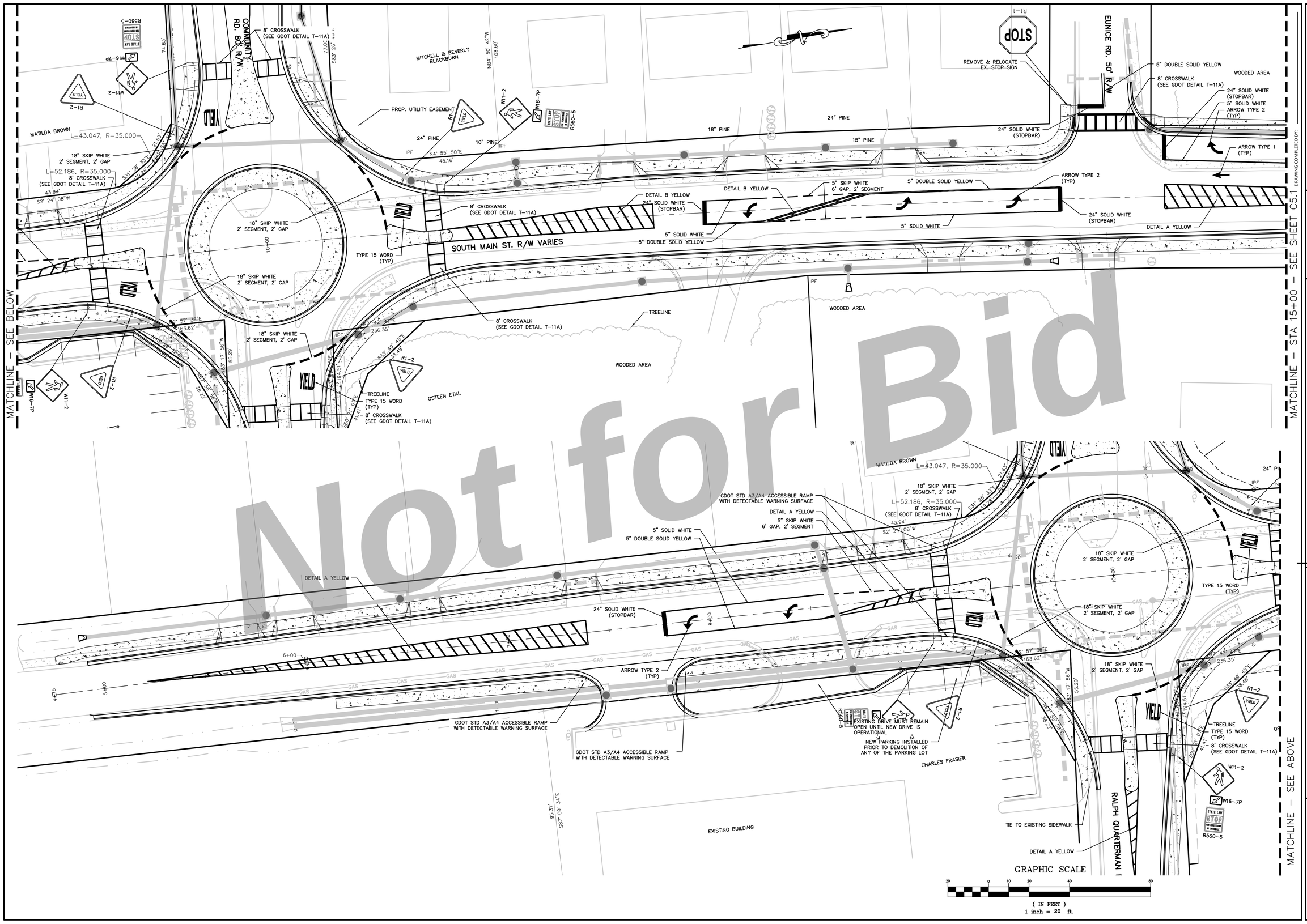
SHEET: C4.4



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Level II Certification No. 935
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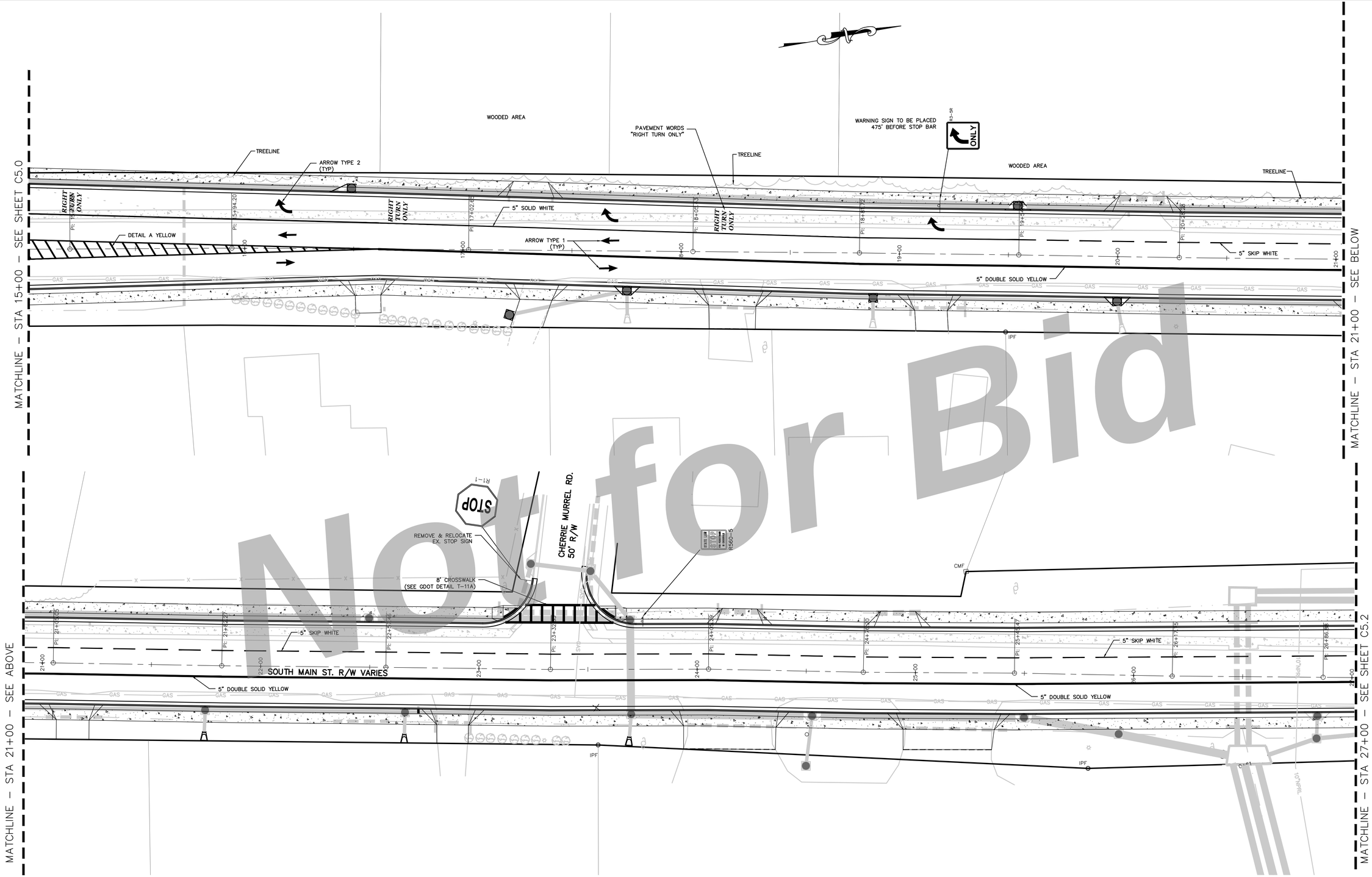
Signage & Marking Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C5.0



GRAPHIC SCALE

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(IN FEET)
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Paul C. Simonton 8-21-22

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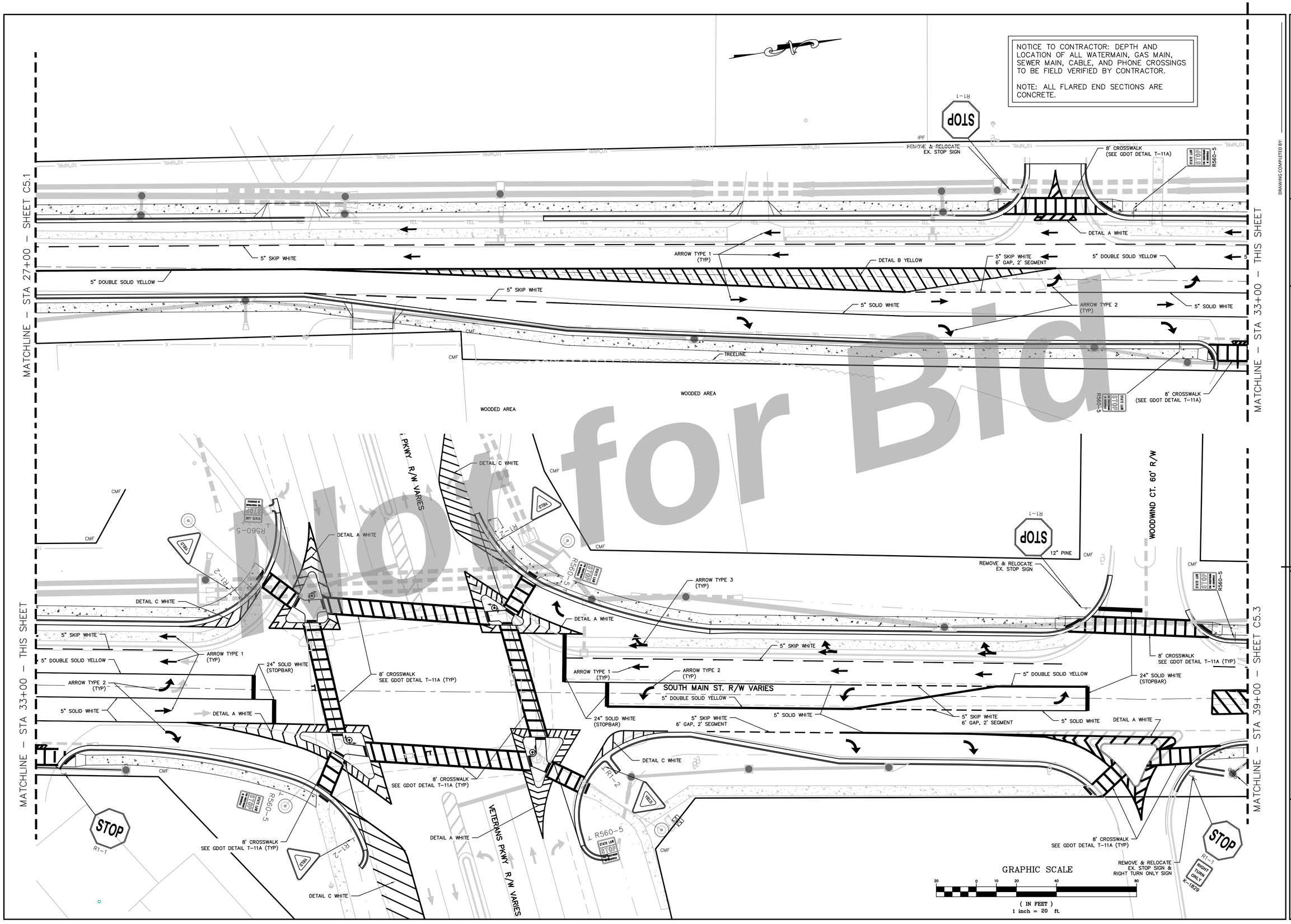

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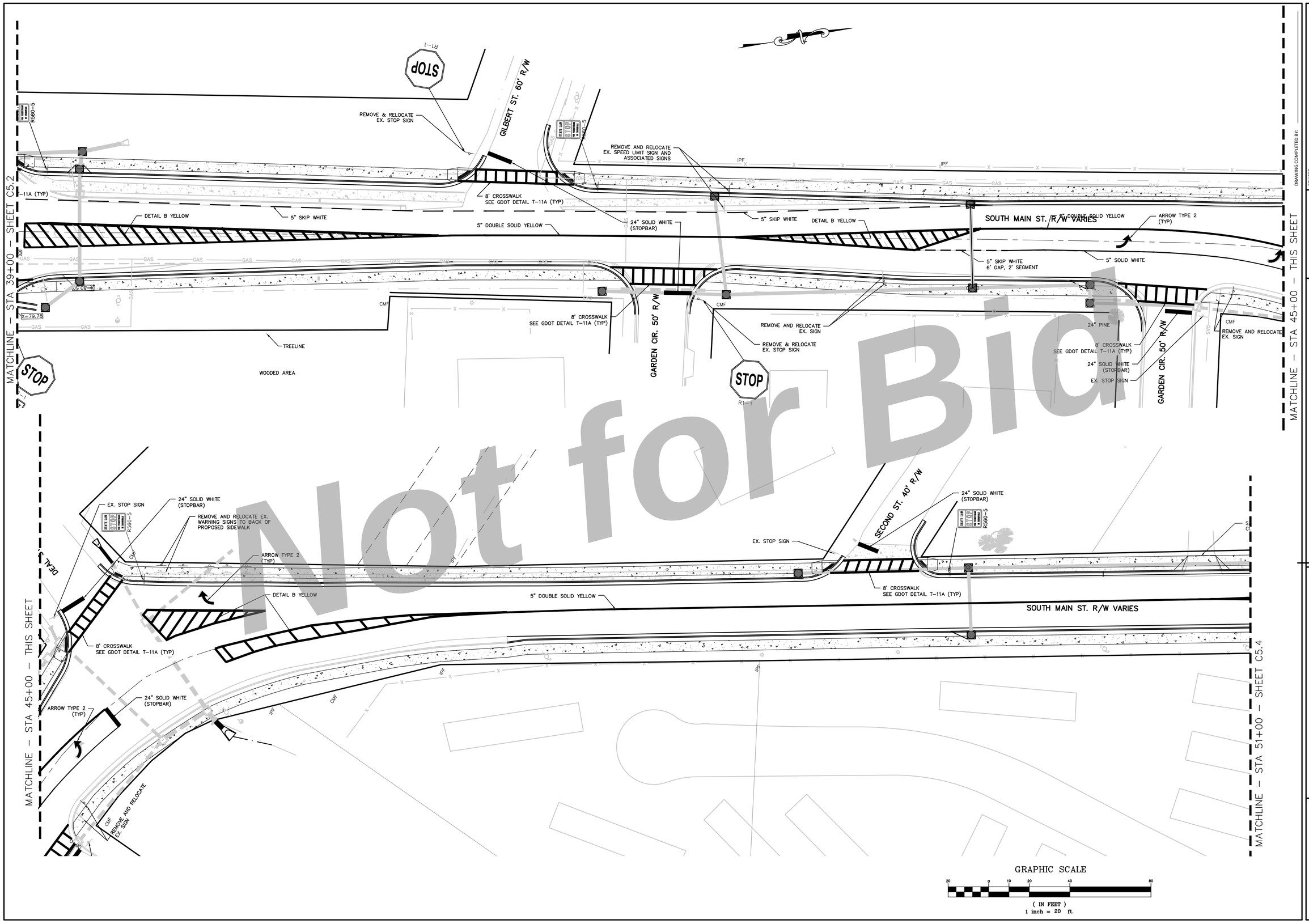

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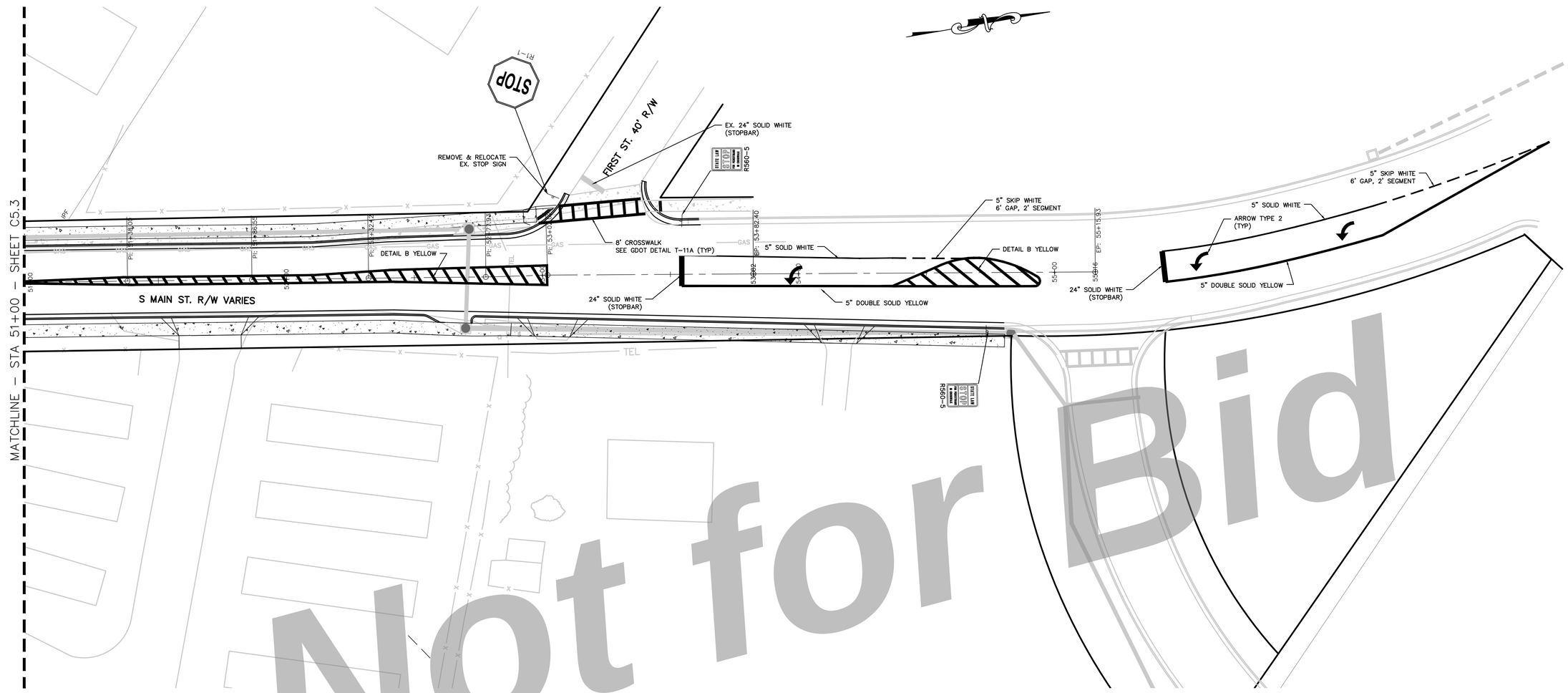

GRAPHIC SCALE

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(IN FEET)
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GAR100002 REQUIREMENTS:

INSPECTIONS
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 PRIMARYPERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROMVEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OREXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. 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 FOURTEEN (14) 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 NONWORKING SATURDAY, NON-WORKING SUNDAY OR 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): (A) 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., LIE TIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) 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 DISCHARGING FROM THE PRIMARY 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 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 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 STATEMENT 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.

MAINTENANCE
THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OFVEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

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.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP- A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4). 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.

B. SAMPLE TYPE. 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

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). 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.

(4). 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. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). 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.

C. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2).

(2). OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S)AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN: FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED, UNDISPERSED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

(2). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL, IF APPLICABLE) IF THE DESIGN PROFESSIONAL PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED RECEIVING WATER TO BE SAMPLED WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. A WRITTEN JUSTIFICATION AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPRESENTITIVE SAMPLING MUST BE INCLUDED ON THE PLAN. THE JUSTIFICATION AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED SAMPLE RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS:

(A). SITE LAND DISTURBANCES AND CHARACTERISTICS;

(B). RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND

(C). SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE'S TR-55, URBAN HYDROLOGY FOR SMALL WATERSHEDS) OR THE MOST RECENT VERSION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATERS.

(3). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATER(S) WILL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING, THE DESIGN PROFESSIONAL MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN:

"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 VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM 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 100002. 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."

(4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER.

(5). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN, THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT.

(6). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1).(3).

D. 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 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 STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE 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 STORMWATER 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 THE SUBMITTAL OF AN NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION WHICHEVER OCCURS 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 THEREAFTER SAMPLING SHALL BE TAKEN FOR STORM WATER 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."NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY CONDUCTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

E. 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 NOTICE FROM EPD, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE 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; AND
H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."
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.

F. RETENTION OF RECORDS

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

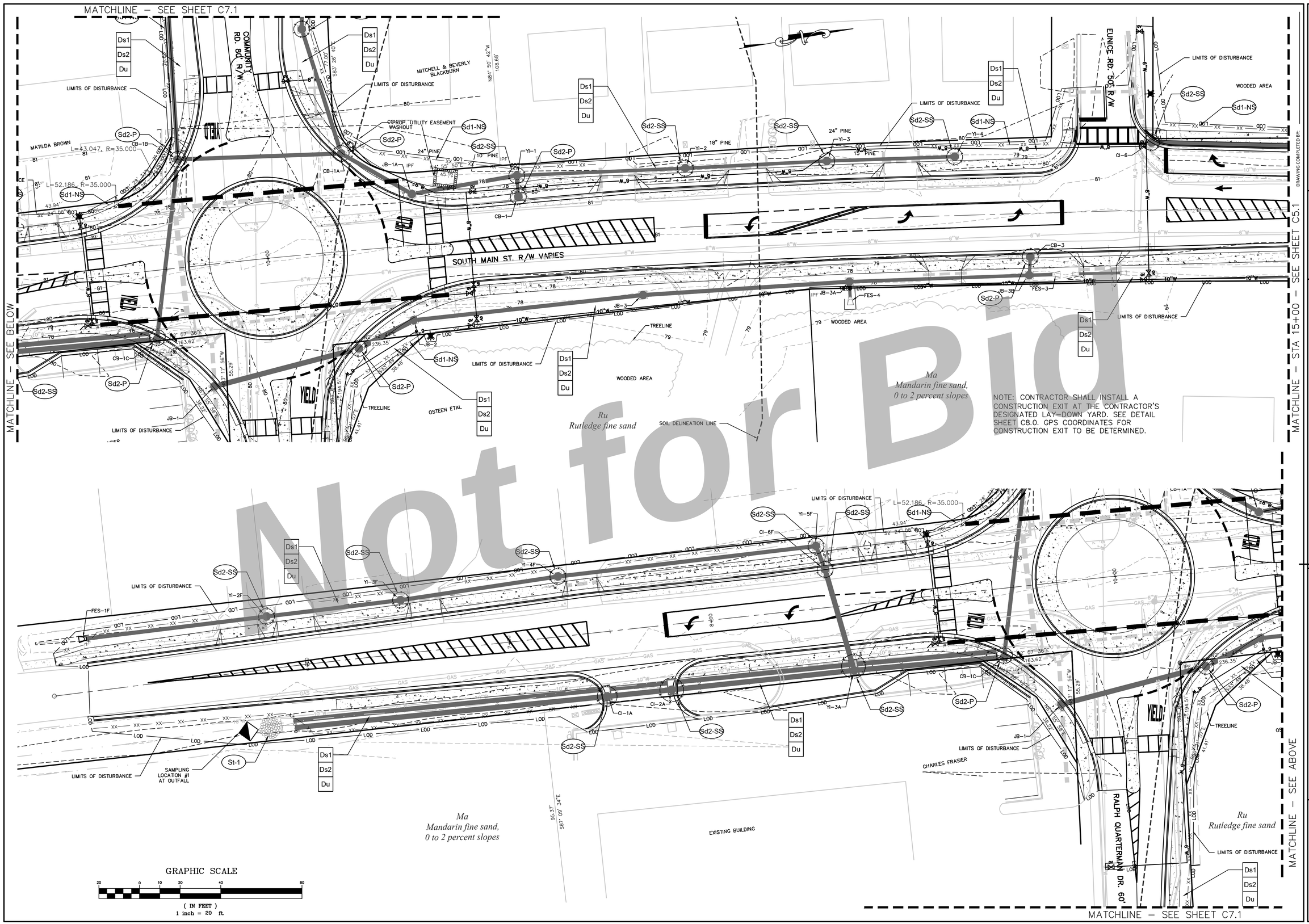
G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. 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 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 OR AT A DESIGNATED ALTERNATIVE LOCATION 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 PERMITEE.

PART V. STANDARD PERMIT CONDITIONS
A. DUTY TO COMPLY.

1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.
2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.

3. PENALTIES FOR VIOLATIONS OF P



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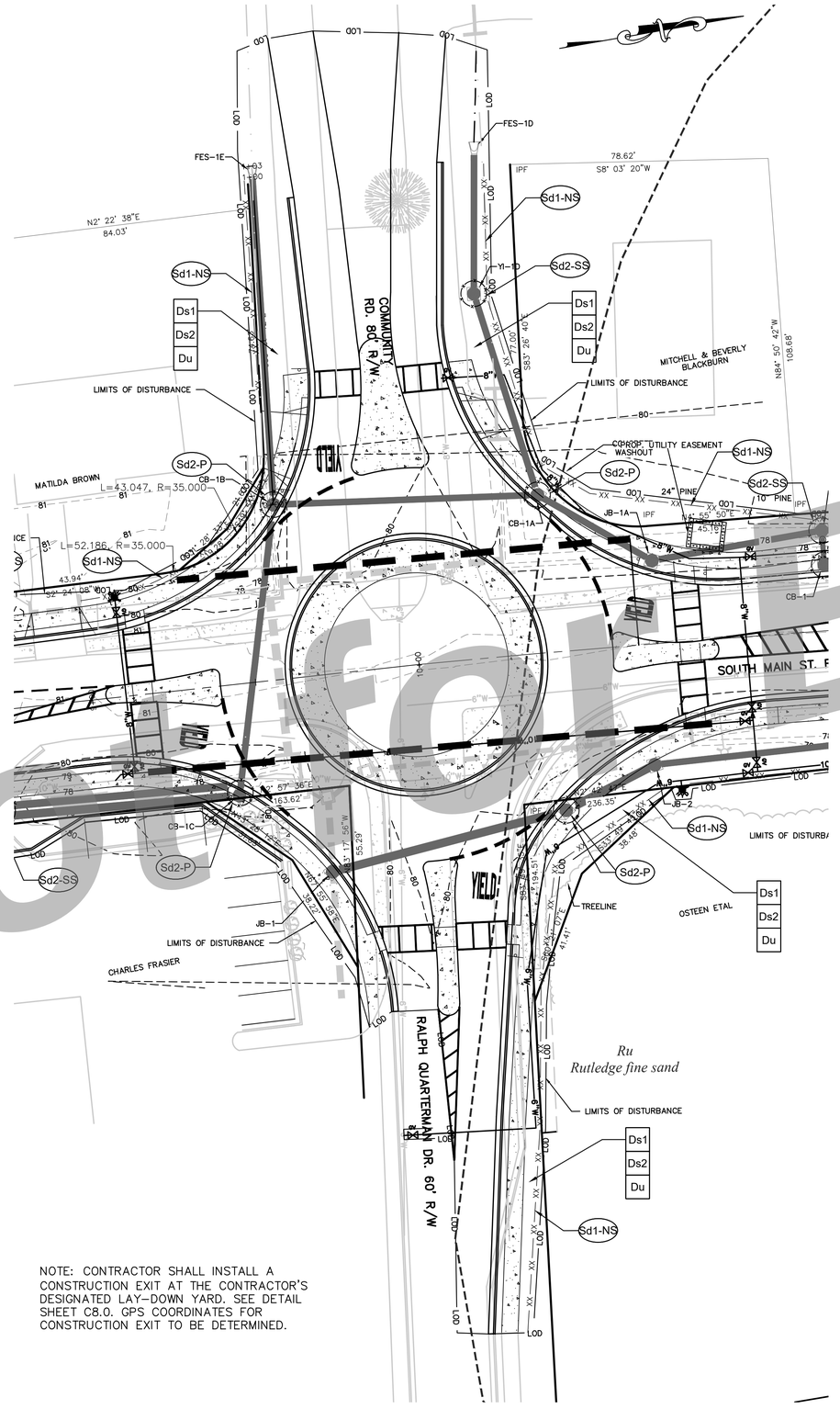
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Erosion, Sedimentation & Pollution Control Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C6.1



NOTE: CONTRACTOR SHALL INSTALL A CONSTRUCTION EXIT AT THE CONTRACTOR'S DESIGNATED LAY-DOWN YARD. SEE DETAIL SHEET C8.0. GPS COORDINATES FOR CONSTRUCTION EXIT TO BE DETERMINED.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
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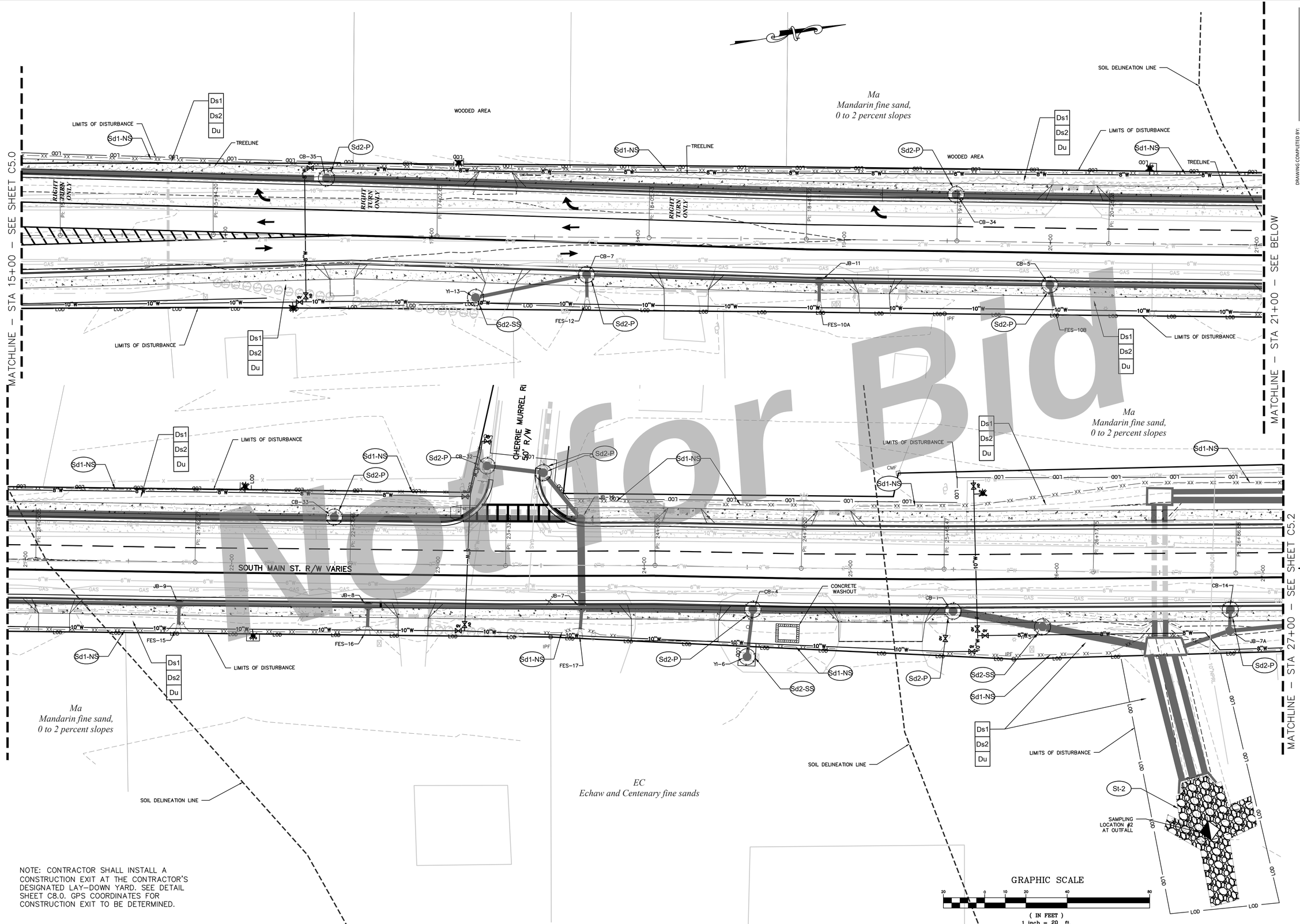

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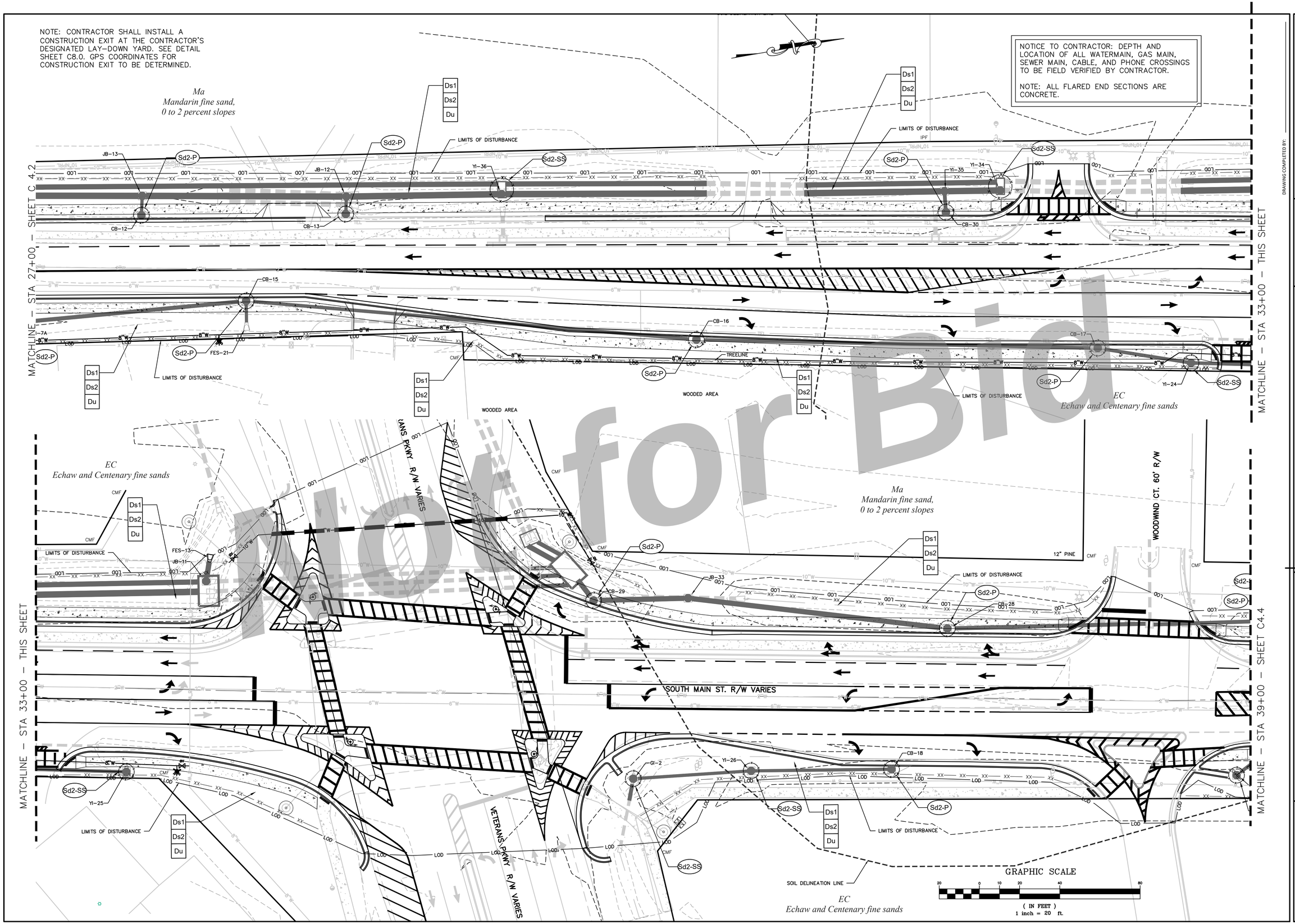
NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.



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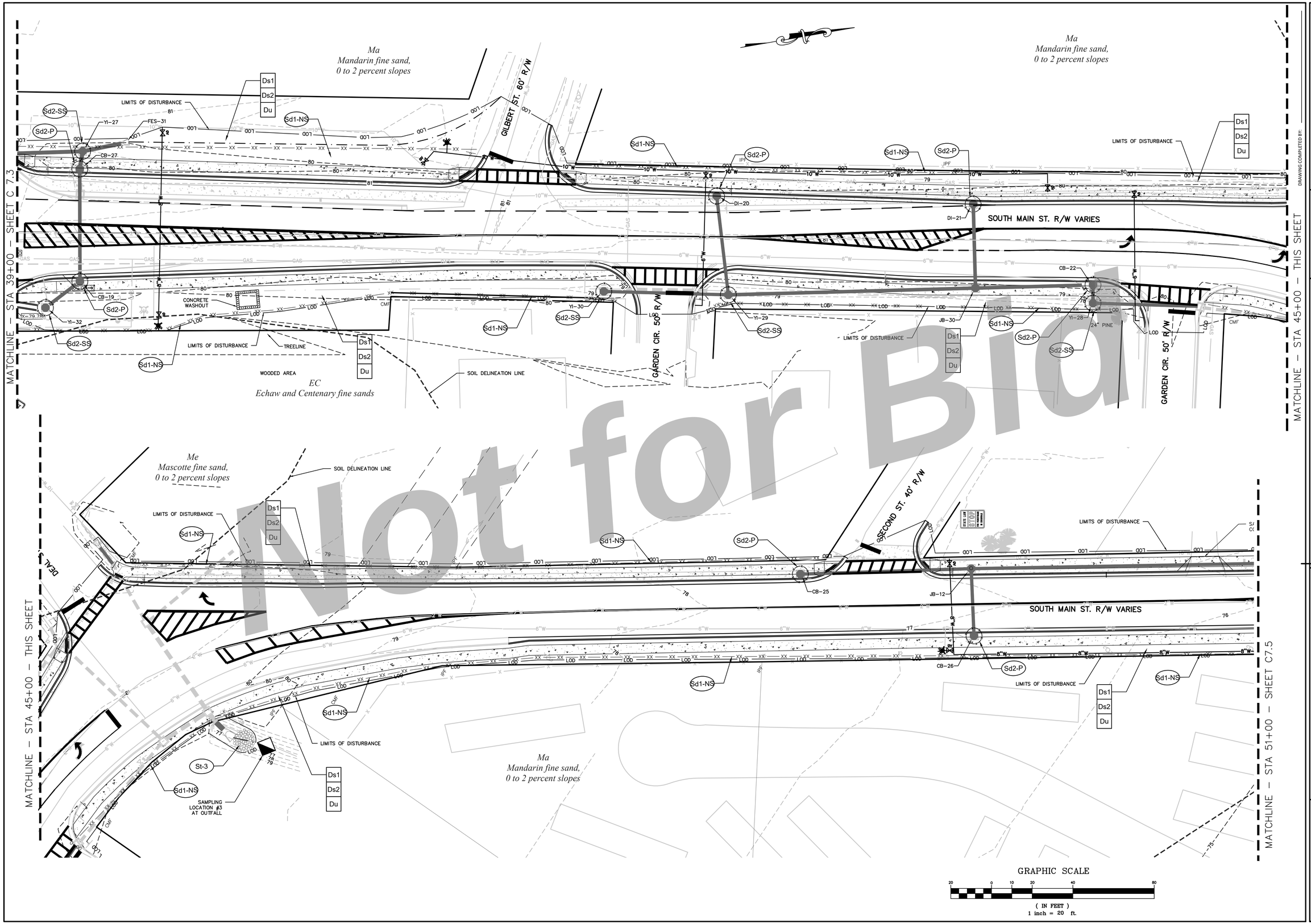

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(IN FEET)
1 inch = 20 ft.

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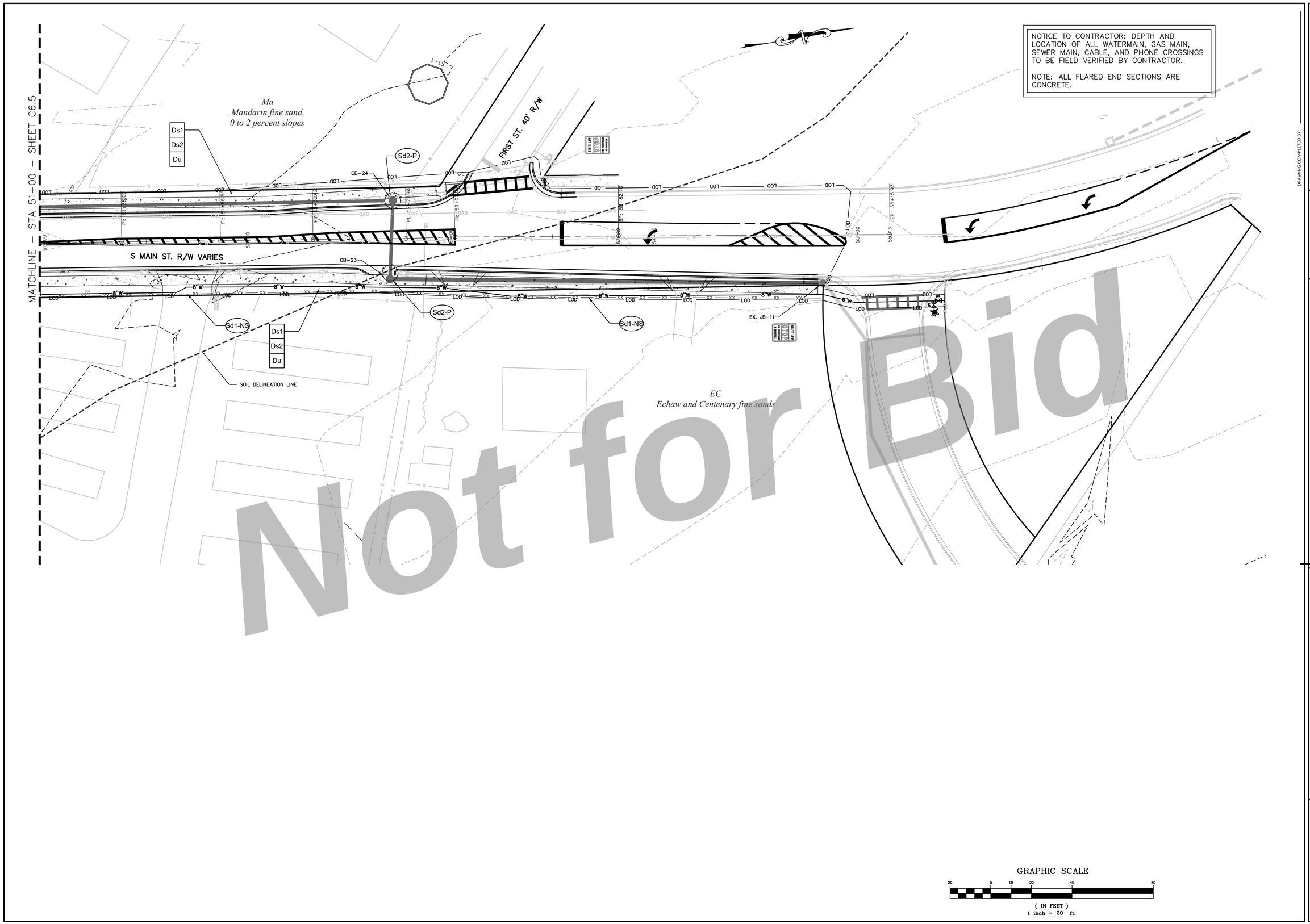

NOTICE TO CONTRACTOR: DEPTH AND LOCATION OF ALL WATERMAIN, GAS MAIN, SEWER MAIN, CABLE, AND PHONE CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTE: ALL FLARED END SECTIONS ARE CONCRETE.

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SIMONTON ENGINEERING

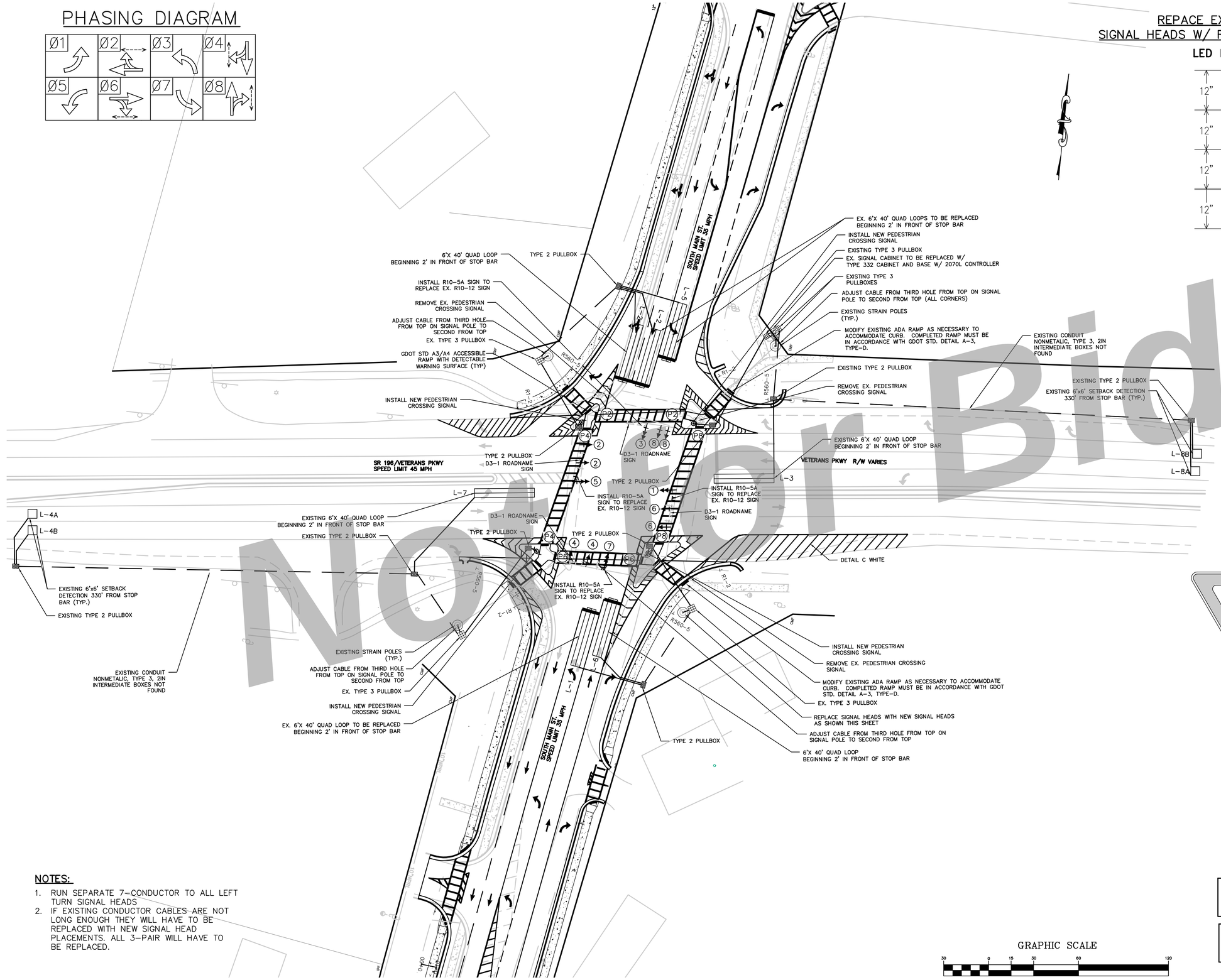
South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Erosion, Sedimentation & Pollution Control Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C6.6

PHASING DIAGRAM



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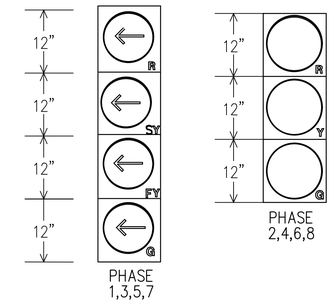
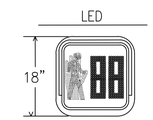
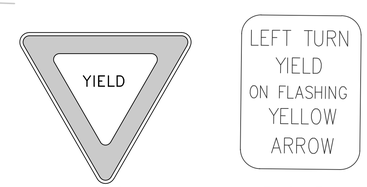
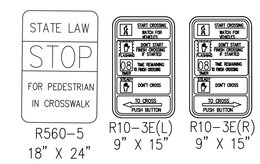
REPACE EXSITNG SIGNAL HEADS
SIGNAL HEADS W/ RETROREFLECTIVE BACK PLATES

LED INCANDESCENT LOOK









STREET SIGNS

Veterans Pkwy

S. Main St

REUSE EXISTING SIGNS

NOTES:

1. RUN SEPARATE 7-CONDUCTOR TO ALL LEFT TURN SIGNAL HEADS
2. IF EXISTING CONDUCTOR CABLES ARE NOT LONG ENOUGH THEY WILL HAVE TO BE REPLACED WITH NEW SIGNAL HEAD PLACEMENTS. ALL 3-PAIR WILL HAVE TO BE REPLACED.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

GDOT Intersection Plan

DATE: August 17, 2020
FILE NO: 2010-459RJ
SHEET: C7.0

List of Materials

List of Materials is for information purpose only. The Contractor shall field verify all materials and quantities required for installation
All materials and specifications to meet GDOT Standards & Specifications

Materials

Item	Unit	Quantity
Controller Cabinet Assembly		
A. Controller Unit, Model 2070LX	EA	1
E. Cabinet Assembly, Model 332	EA	1
F. Switch Pack (Load Switch)	EA	16
G. DC Isolator	EA	3
H. Loop Detector, 2 Channel	EA	9
L. Monitor to be 2018KClip Monitor	EA	1
M. Auxilliary Output File	EA	1
Loop/PED Lead-in wire (Shielded, Twisted/1000 ft)		
A. 3 Pair 18 AWG	Reel	4
Signal Cable (14 AWG)		
B. 7 Conductor per 1000 ft	Reel	4
Loop Detector Wire (114 AWG. Stranded/1000 ft)	Reel	4
3 Section, 12" Signal Head LED, Yellow Housing w/ Black Front Plastic	EA	8
4 Section, 12" Signal Head LED, Yellow Housing w/ Black Front, Plastic (Red, Yellow, Yellow Flash and Green Arrow)	EA	4
Plastic Louvered Back Plate for One-Way, 3 Section, 12" Signal Head w/ Retroreflective Strip	EA	8
Plastic Louvered Back Plate for One-Way, 4 Section, 12" Signal Head w/ Retroreflective Strip	EA	4
1- Section 18" LED Countdown Pedestrian Signal head, Full, Handman Overlap 9" High Numbers and 12" Symbols	EA	8
Pedestrian Pushbutton Stations. W/ Buttons and signs 9"x 15", R10-3E (L)eft or (R)ight, Countdown		
1. 9"x 15" R-10-3L, Countdown	EA	4
2. 9"x 15" R-10-3R, Countdown	EA	4
Hardware for Mast Arm Mounting	EA	12
Hardware for Pedestal Pole, Top Post Mounting Two-way Bracket Assembly	EA	4
Pesestal Pole and Square Base	EA	4
Pull Box, PB-2	EA	10
Pull Box, PB-3	EA	4
Loop Saw Cut	LF	1300
Conduit, 1",	LF	100
Conduit, 2"	LF	290
Conduit Type 3 2 in	LF	100
R560-5 Sign w/ Post	EA	4
R10-5A Left Turn Yield on Flashing Yellow Sign	EA	4
Misc Matl to Complete Installation	LUMP	1
Steel Strain Pole Tp 4 (w/ 60 ft mast Arm)	EA	2
Steel Strain Pole Tp 4 (w/ 65 ft mast Arm)	EA	2

332 CABINET INPUT ASSIGNMENT

UPPER INPUT FILE

	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2-CH			2-CH							DC 150	DC 150	DC 150
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION		02A											06 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
ACTRA/SEPAC	DETECTOR	1	3	5	7	9	11	13	15	17			PED 2	PED 6	
ACTRA/SEPAC	ASSIGNED	1	2	2	2	3	4	4	4	1			02	06	

CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		02B			03B							04 PED	08 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C
ACTRA/SEPAC	DETECTOR	1	4	6	7	9	12	14	15	18			PED 4	PED 8	
ACTRA/SEPAC	ASSIGNED	1	2	2	2	3	4	4	4	3			04	08	

LOWER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2-CH	2-CH												
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	05	06A												
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
ACTRA/SEPAC	DETECTOR	19	21	23	25	29	31	33	35	37			PRE 3	PRE 4	PRE 1
ACTRA/SEPAC	ASSIGNED	5	6	6	6	7	8	8	8	5					

CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		06B												
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12
ACTRA/SEPAC	DETECTOR	19	22	24	25	29	32	34	35	38			PRE 5	PRE 6	PRE 2
ACTRA/SEPAC	ASSIGNED	5	6	6	6	7	8	8	8	7					

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Paul C. Simonton 10-21-20

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

GDOT Signal Plan
List of Materials & Cabinet Input

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C7.1

TRAFFIC SIGNAL GENERAL NOTES:

1. THE WORK SHALL CONFORM TO THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEM, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS (SPECIFICALLY SECTIONS 647 & 925), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NATIONAL ELECTRIC CODE AND DETAIL SHEETS.

2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FT CLEARANCE, FROM THE BOTTOM OF THE SIGNAL HEADS TO THE TOP OF ROAD SURFACE AND MINIMUM OF 8 FT MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.

3. THREE–PAIR SHIELDED CABLE WILL BE USED FOR THE DETECTOR LEAD INS. ONE THREE–PAIR LEAD IN CABLE CAN BE USED FOR UP TO THREE LOOPS IF A FOUR CHANNEL CONTROLLER CARD IS USED. MORE THAN THREE LOOPS WILL REQUIRE TWO LEAD IN WIRES. A SINGLE LEAD–IN CABLE SHALL ONLY CONTROL LOOPS FOR A SINGLE PHASE; MULTIPLE LEAD–IN CABLES MAY BE REQUIRED FOR A SINGLE APPROACH.

4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW SIGNAL POLES AND/OR IN THE VICINITY OF ANY UNDERGROUND WORK. MINOR SHIFTS (UP TO 5') IN NEW POLE LOCATIONS AT THE DISCRETION OF THE ENGINEER ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCE FROM THE EDGE OF PAVEMENT SHALL BE MAINTAINED.

5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL VERTICAL AND HORIZONTAL UTILITY CLEARANCES PER NEC AND GDOT SPECIFICATIONS. ANY EXISTING OVERHEAD UTILITIES THAT ARE IN CONFLICT WITH THE TRAFFIC SIGNAL INSTALLATION WILL HAVE TO BE ADJUSTED. MINOR SHIFTS (UP TO 5') IN NEW STRAIN POLE LOCATIONS, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID OVERHEAD UTILITIES. 10' CLEAR ZONE SHALL BE MAINTAINED BETWEEN OVERHEAD POWER UTILITIES AND SIGNAL EQUIPMENT.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC SIGNAL ENGINEER PRIOR TO FINAL ACCEPTANCE. NOTIFICATION OF REQUEST FOR INSPECTION MUST BE SENT IN WRITING TO THE DISTRICT SIGNAL ENGINEER AT "GEORGIA DEPARTMENT OF TRANSPORTATION, PO BOX 610, JESUP, GEORGIA 31598, ATTENTION SIGNAL ENGINEER" A MINIMUM OF ONE WEEK PRIOR TO DATE OF INSPECTION.

8. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO ORDERING ANY SIGNAL EQUIPMENT OR BEGINNING INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE LATEST EDITION OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS (SPECIFICALLY SECTIONS 647 & 925).

9 MAST ARM OR SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES SHALL BE FIELD DETERMINED BY THE INSTALLER PRIOR TO ORDERING MATERIAL. ALL NECESSARY SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING/PROPOSED UTILITIES AND ROADWAY SHALL BE MAINTAINED.

10. A COMPLETE SIGNAL TIMING PROGRAM IS TO BE DEVELOPED AND INSTALLED IN THE SIGNAL CONTROLLER. SEE GEORGIA DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA SPECIAL PROVISION 687 – TRAFFIC SIGNAL

11. SIGNAL TIMING TO INCLUDE:
- * SR 196 AT S. MAIN ST
- * SR 38 AT SR 196/VETERANS PARKWAY
- * SR 38 AT WALMART
- * SR 38 AT OGLETHORPE PLAZA
- * SR 196 AT WALMART/LOWES ENTRANCE (NEW SIGNAL, IF INSTALLED)

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP AND IMPLEMENT ALL SIGNAL TIMING PLANS WITH GDOT HAVING FULL OVERSIGHT OF THE WORK.

LEGEND

EXISTING UTILITIES

- EXISTING GUY WIRE
- EX. OH ELECTRIC
- EX POWER POLE
- EX TRANSFORMER
- EX. UG ELECTRIC
- EX GAS LINE
- EX GAS METER
- EX GAS VALVE
- EX WATER LINE
- EX FIRE HYDRANT
- EX WATER METER
- EX WATER VALVE
- EX SANITARY SEWER
- EX SS MANHOLE
- EX TELEPHONE MH
- EX OH TELEPHONE
- EX TELEPHONE POLE
- EX UG TELEPHONE
- EX OH CABLE TV
- EX UG CABLE TV

PROPOSED SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 4 SECTION HEAD
- 4 SECTION HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP – (See ADA Detail)
- PULLBOX, TP 2
- PULLBOX, TP 3
- PULLBOX, TP 4
- PULLBOX, TP 5
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- DIRECTIONAL BORE
- RAILROAD CONTROLLER
- SIGN POST
- ELECTRIC METER

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

GDOT Signal Plan General Notes

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C7.2

LEGEND FOR EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
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.
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.
Fr	STONE FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
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.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

SOUTH MAIN STREET WIDENING – EROSION CONTROL SCHEDULE

ITEM (SEE CONSTRUCTION SCHEDULE THIS SHEET)

1 Installation of Initial Sediment Control Measures – Before clearing and rough grading begins, perimeter silt fence and construction exit will be installed per project plans to ensure sedimentation does not reach sensitive areas.

2 Demolition & Clearing – Mulch and temporary vegetation will be installed to ensure stabilization. Erosion and sediment control measures shall be installed prior to or concurrent with land disturbing activities and maintained until site is stabilized.

3 Rough Grading – Temporary/Permanent grassing practices will be utilized to ensure stabilization at all stages.

4 Installation of Intermediate Erosion and Sediment Control Measures – As construction progress, additional erosion and sediment control measures required by plan and as needed will be provided to ensure sediment does not leave the site. Erosion control devices will be maintained until site is stabilized.

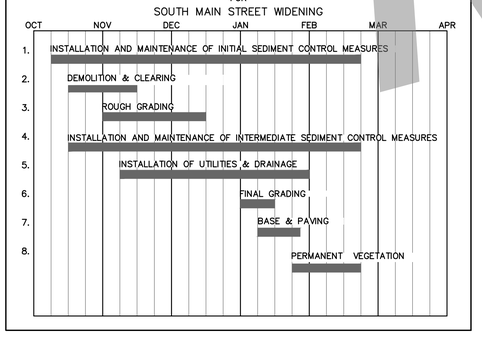
5 Installation of Utilities – Temporary/Permanent grassing practices will be utilized to ensure stabilization at all stages.

6 Final Grading – After all utilities in place, final grading is to occur to the elevations shown on the plan. Temporary/Permanent grassing practices will be utilized to ensure stabilization at all stages.

7 Base & Paving – Silt Fence will be maintained and grassing practices will be utilized to control sedimentation.

8 Permanent Vegetation – The project will be grassed in all location whereas needed to establish a permanent stand of grass. Erosion control devices will be maintained until a permanent stand of grass is achieved and an N.O.T. is issued.

DETAILED CONSTRUCTION SCHEDULE
FOR
SOUTH MAIN STREET WIDENING



PROJECT NARRATIVE

This site is located on S Main St in Hinesville, GA in Liberty County. The site has a total acreage of +/- 14 acres. The plan proposes a disturbed acreage of 9.71 acres. The proposed project is the roadway widening reconstruction of S Main St along with the associated infrastructure. The existing site is composed of an asphalt paved road with ditches and driveways that serve several residents along the roadway, as well as wooded areas.

Land disturbing activities include but are not be limited to Demolition, Clearing and Grubbing, Grading, Paving, Installation of Utilities & Drainage, Concrete Sidewalk Installation, Grassing, and other activities typically associated with roadway construction.

Pre-development runoff is 164.30 CFS. Post development runoff is 165.94 CFS. Type NS Silt Fence, Mulching, Inlet Sediment Traps, and Grassing will be used to deter pollutants during construction. Grasses, vegetation and mulching will be used once construction is complete.

SPECIFICATIONS

A. FOR TEMPORARY PROTECTION OF CRITICAL AREAS WITHOUT SEEDING. THIS STANDARD APPLIES TO GRADES OR CLEARED AREA WHICH MAY BE SUBJECTED TO EROSION FOR 6 MONTHS OR LESS, WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT WHICH CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

1. GRADE, AS NEEDED AND FEASIBLE, TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.

2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS TERRACES AND SEDIMENT BARRIERS. AS NEEDED AND FEASIBLE, LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

1. DRY STRAW OR HAY – SPREAD AT A RATE OF 2 1/2 TONS PER ACRE. WOOD WASTE, CHIPS, SAWDUST OR BARK – SPREAD 2 TO 3 INCHES DEEP (ABOUT 6 TO 9 TONS PER ACRE).

2. EROSION CONTROL MATTING OR NETTING, SUCH AS EXCELSIOR, JUTE, TEXTILE AND PLASTIC MATTING AND NETTING – APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

3. CUTBACK ASPHALT, SLOW CURING – APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.).

4. POLYETHYLENE FILM – SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.

APPLYING AND ANCHORING MULCH

1. APPLY STRAW OR HAY MULCH UNIFORMLY BY HAND OR MECHANICALLY. ANCHOR AS APPROPRIATE AND FEASIBLE. IT MAY BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." THE DISK MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION MUST BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF WATER PER ACRE.

2. SPREAD WOOD WASTE UNIFORMLY ON SLPES THAT ARE 3:1 AND FLATTER. NO ANCHORING IS NEEDED.

3. COMMERCIAL MATTING AND NETTING – FOLLOW MANUFACTURER'S SPECIFICATION INCLUDED WITH THE MATERIAL.

4. APPLY ASPHALT SO AREA HAS UNIFORM APPEARANCE. (NOTE: USE IN AREAS OF PEDESTRIAN TRAFFIC COULD CAUSE PROBLEMS OR "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.).

B. TO CONSERVE MOISTURE AND CONTROL WEEDS IN NURSERIES, ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BAR AREAS ON LAWNS.

MULCHING MATERIALS

USE ONE OF THE MATERIALS LISTED BELOW AND APPLY AT THICKNESS INDICATED.

MATERIAL	DEPTH
1. GRAIN STRAW OR GRASS HAY	6" TO 10"
2. PINE NEEDLE	4" TO 6"
3. WOOD WASTE (SAWDUST, BARK, CHIPS)	4" TO 8"
4. SHREDDED RESIDUES (CROPS, LEAVES, ETC.)	4" TO 8"
5. COMPLETELY COVER AREA WITH BLACK POLYETHYLENE FILM AND HOLD IN PLACE BY PLACING SOIL ON THE OUTER EDGE. WHEN USING ORGANIC MULCHES, APPLY 20–30 POUNDS OF NITROGEN IN ADDITION TO THE NORMAL AMOUNT NEEDED FOR PLANT GROWTH TO OFFSET THE TIE UP OF NITROGEN BY DECOMPOSITION OF MULCH.	

Ds1 DISTURBED AREA STABILIZATION W/ MULCHING ONLY

POTENTIAL POLLUTANT MATERIALS INVENTORY

1. Concrete
2. Detergents
3. Paints (Roadway Striping)
4. Tar
5. Fertilizers
6. Petroleum Based Products
7. Cleaning Solvents
8. Wood

SEDIMENT STORAGE SUMMARY:

DISTURBED AREA = 9.71 AC
REQUIRED SEDIMENT STORAGE = 650.57 C.Y.
(67 C.Y./AC X 9.71 AC = 650.57 C.Y.)

SILT FENCE SEDIMENT STORAGE

SILT FENCE REQUIRED = 100' PER 1/4 ACRE
9.71 AC X 100'/0.25 AC = 3884 LF
STORAGE IN REQ. SILT FENCE = 3884 LF X 0.17 CY/FT = 660.28 CY

AVAILABLE STORAGE = 6,659 LF X 0.17 CY/FT = 1132.03 CY

Sd2–SS SEDIMENT STORAGE

STORAGE PROVIDED = 278.32 CY
(see detail and chart on sheet C8.3)

TOTAL SEDIMENT STORAGE ACHIEVED = 1410.35 CY
***Although the required sediment storage has been exceeded using silt fences, additional storage will be provided through inlet sediment traps.**

Due to the linear nature of this project and limited area available, sediment ponds are unable to be used. Sediment will be contained through the use of silt fence, and inlet sediment traps.

It is our professional opinion that sufficient sediment storage will be obtained with proper installation and maintenance of proposed BMP's.

Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES (1) PER ACRE	BROADCAST RATES (1) PER 1000 Sq.Ft.	PLANTING DATES BY RESOURCE AREAS (3)	REMARKS
LESPEDEZA, ANNUAL ALONE IN MIXTURES	 40 lbs. 10 lbs.	 0.9 lbs. 0.6 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 UNCULANT EL.
LOVEGRASS, WEEPING ALONE IN MIXTURES	 4 lbs. 2 lbs.	 0.1 lbs. 0.05 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	1,500,00 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
MILLET, BROWNTOP ALONE IN MIXTURES	 40 lbs. 10 lbs.	 0.9 lbs. 0.2 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 DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
MILLET, PEARL ALONE IN MIXTURES	 50 lbs.	 0.9 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	88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
RYE ALONE IN MIXTURES	 3 bu (168 lbs.) 1/2 bu (28 lbs.)	 3.9 lbs. 0.6 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 WINTERHARDY.
RYEGRASS, ANNUAL ALONE IN MIXTURES	 40 lbs.	 0.9 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. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE IN MIXTURES	 60 lbs.	 1.4 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 DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.

(1) BROADCAST RATES ARE IN PURE LIVE SEED (PLS)
(2) M–L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S
(3) DARK LINES INDICATE OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

FERTILIZER AND LIME REQUIREMENTS FOR TEMPORARY VEGETATION (Ds2)

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 1000 400	50–100 – 30	1
Cool Season Grasses and Legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 1000 400	0–50 – –	1
Temporary Cover Crops Seeded Alone	First	10–10–10	500	30	1
Warm Season Grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 800 400	50–100 50–100 30	1

Ds2 DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)

(COORDINATE WITH FINAL LANDSCAPING PLAN)

Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1/ – PER ACRE	BROADCAST RATES 1/ – PER 1000 S.F.	PLANTING DATES BY RESOURCE AREAS * RESOURCE AREA 3/	SPECIFICATIONS
BERMUDA, COMMON (CYNODON DACTYLON) HULLED SEED ALONE WITH OTHER PERENNIALS	 10 LBS. 6 LBS.	 0.2 LB. 0.1 LB.	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	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS	 10 LBS. 6 LBS.	 0.2 LB. 0.1 LB.	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	 PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRIGS (CYNODON DACTYLON) COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, OR TIFT 44	40 CU. FT. OR SOD PLUGS 3' x 3'	0.9 CU.FT.	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	A CUBIC FT. CONTAINS APPROXIMATLY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATLY 800 SPRIGS.
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		P J F M A M J J A S O N D	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY EST. DO NOT PLANT NEAR PARTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
FESCUE, TALL (CYNODON DACTYLON) ALONE WITH OTHER PERENNIALS	 50 LBS. 30 LBS.	 1.1 LB. 0.7 LB.	P J F M A M J J A S O N D	227,000 SEED PER POUND.USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWN-VETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTING. NOT FOR HEAVY USE AREAS OR ATHLETIC FEILDS.

(1) BROADCAST RATES ARE IN PURE LIVE SEED (PLS)
(2) M–L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS SOUTHERN COASTAL PLAIN, SAND HILLS, BLACK LANDS, AND ATLANTIC COAST FLATWOODS MLRA'S
(3) DARK LINES INDICATE OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

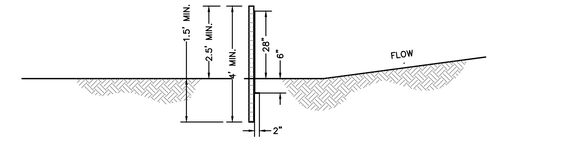
FERTILIZER AND LIME REQUIREMENTS FOR PERMANENT VEGETATION (Ds3)

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)	LIME APPLICATION (TONS/ACRE)
Cool Season Grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 1000 400	50–100 – 30	1
Cool Season Grasses and Legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 1000 400	0–50 – –	1
Warm Season Grasses	First Second Maintenance	6–12–12 6–12–12 10–10–10	1500 800 400	50–100 50–100 30	1
Warm Season Grasses and Legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 1000 400	0–50 – –	1

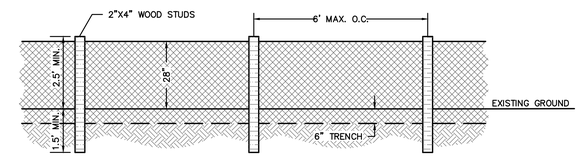
Ds3 PERMANENT GRASSING MULCHING RATES

MATERIAL	DEPTH
1. GRAIN STRAW OR GRASS HAY	4" TO 6"
2. PINE NEEDLE	3" TO 5"
3. WOOD WASTE (SAWDUST, BARK, CHIPS)	4" TO 6"

Ds3 DISTURBED AREA STABILIZATION (WITH PERM SEEDING)

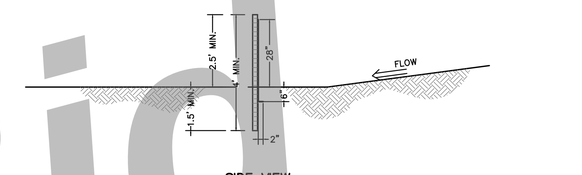


SIDE VIEW

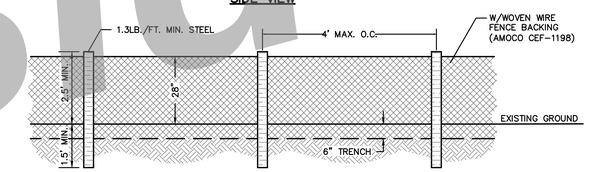


FRONT VIEW

Sd1–NS SILT FENCE – TYPE "NS"



SIDE VIEW

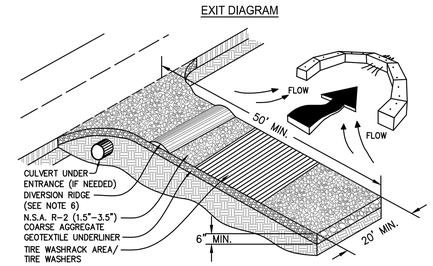


FRONT VIEW

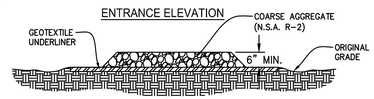
Sd1–S SILT FENCE – TYPE "S"

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CONSTRUCTION EXIT

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Paul C. Simonton 9-21-22

Level II Certification No. 935
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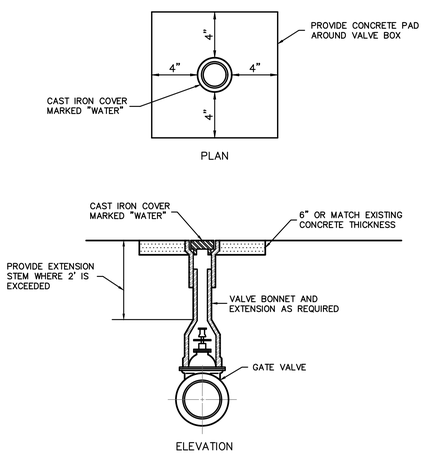
SIMONTON ENGINEERING

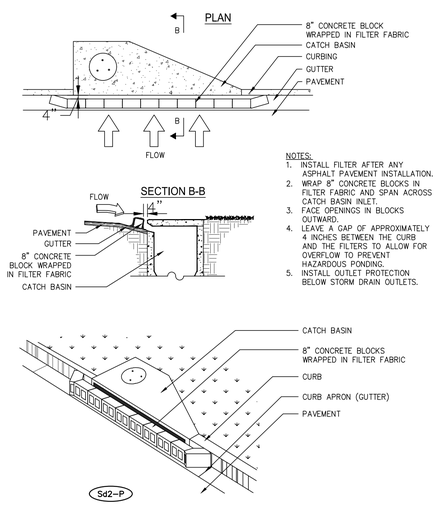
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.0



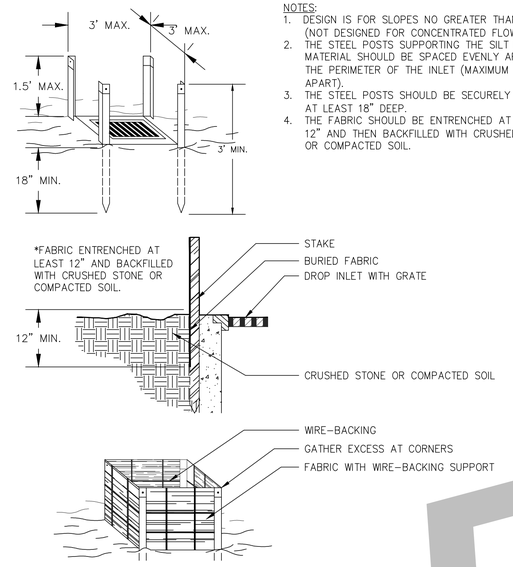
VALVE BOX DETAIL
N.T.S.



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

CURB INLET PROTECTION – "PIGS IN A BLANKET"
N.T.S.

STEEL FRAME AND SILT FENCE INSTALLATION

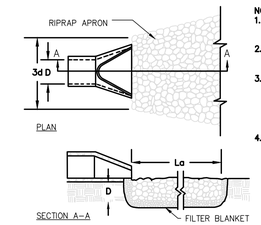


NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Sd2-F FILTER FABRIC WITH SUPPORTING FRAME

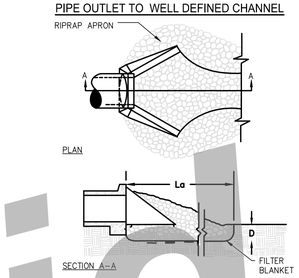
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



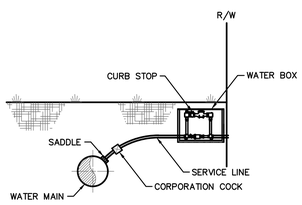
St SIZE CHART

La	LENGTH OF APRON	d50	AVERAGE STONE DIAMETER
W1	WIDTH OF APRON UPSTREAM	D	STONE DEPTH
W2	WIDTH OF APRON DOWNSTREAM		

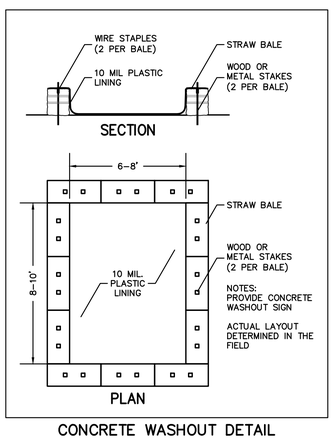
I.D.	OUTLET	PIPE DIA.	La	W1	W2	d50	FLOW RATE	VELOCITY	D
1	FES 1A	DBL. 24"	12'	15'	17'	6"	15.91 CFS	4.01 FT/S	14"
2	HW 3	TRPL 36"	35'	17'	38'	15"	105.3 CFS	5.45 FT/S	34"
3	FES 8A	30"	12'	8'	15'	6"	2.34 CFS	3.07 FT/S	14"

*ALL TAILWATER CONDITIONS ARE MINIMUM.

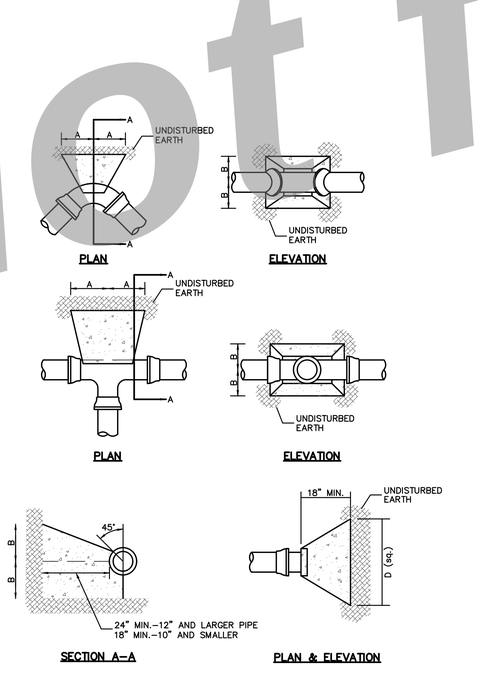
St RIPRAP OUTLET PROTECTION



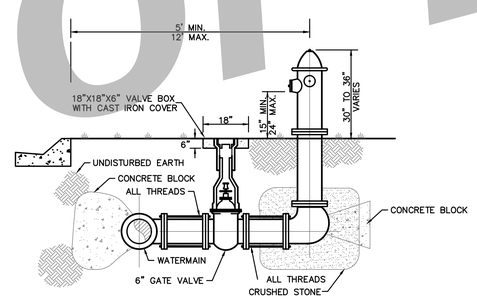
WATER SERVICE DETAIL
N.T.S.



CONCRETE WASHOUT DETAIL
NOT TO SCALE

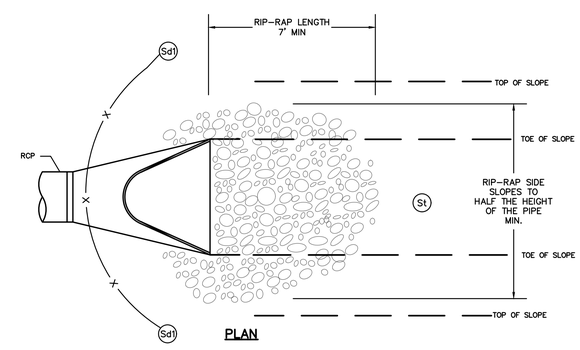


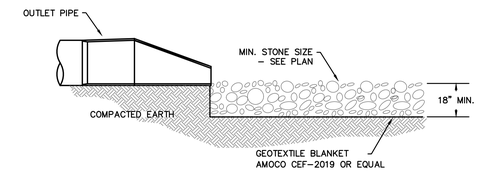
STANDARD THRUST BLOCKS FOR WATER MAIN AND FORCE MAINS
N.T.S.



FIRE HYDRANT DETAIL
N.T.S.

TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE 1 4,000 PSF SOIL	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
	16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
TYPE 1 2,000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"





PRECAST FLARED END SECTION
N.T.S.

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Paul C. Simonton 10-01-22

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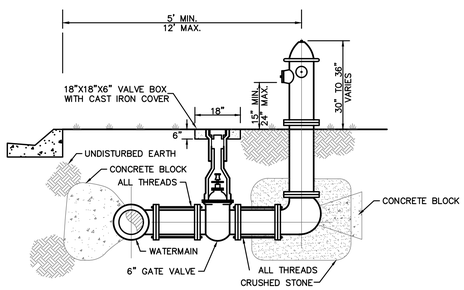
P.O. BOX 309
HINESVILLE, GA 31313
912-244-7800
www.simontonengineering.com

SIMONTON ENGINEERING

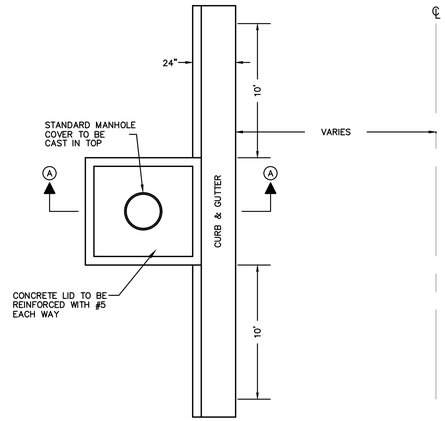
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

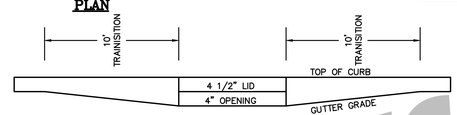
DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.1



FIRE HYDRANT DETAIL
N.T.S.



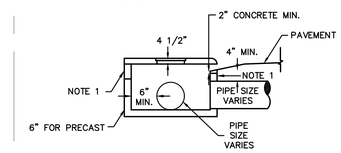
PLAN



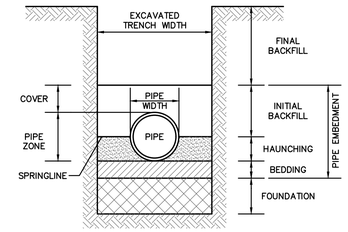
ELEVATION

CATCH BASIN
N.T.S.

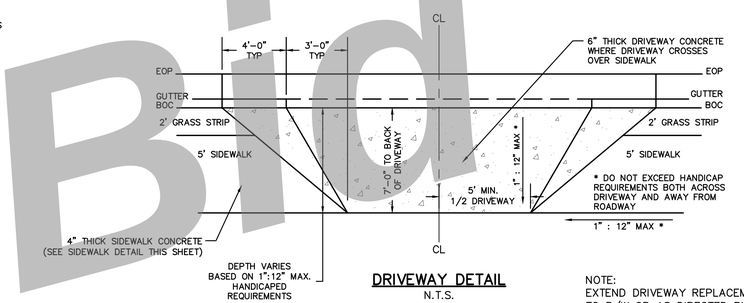
CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES. NO BRICK WILL BE ALLOWED ON THE THROAT. THROAT MUST BE MONOLITHIC POUR MINIMUM OF 2" THICK.
2. OPENING TO BE 4" AT THROAT.
3. ALL POURED COMPONENTS SHALL BE PLACED ON COMPACTED SUBGRADE (98% STANDARD PROCTOR)
4. CATCH BASIN IS NOT FOR ROADWAY USE. USE ONLY ON PRIVATE ROADS OR PARKING LOTS.



SECTION A–A

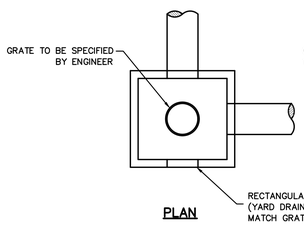


PIPE BEDDING DETAIL
N.T.S.



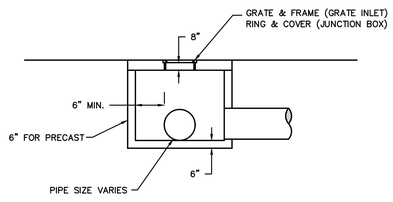
DRIVEWAY DETAIL
N.T.S.
2010–45PRJ

NOTE:
EXTEND DRIVEWAY REPLACEMENT TO R/W OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION JOINT OLD TO NEW SHALL BE SMOOTH AND GRADE TO DRAIN.



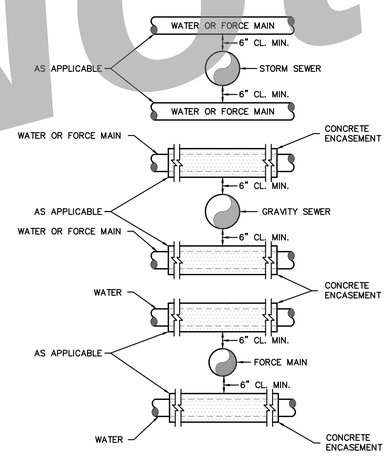
PLAN

CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES.



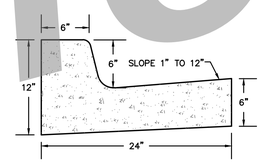
SECTION

JUNCTION BOX / GRATE INLET
N.T.S.

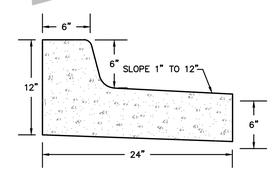


NOTES:
1. CONCRETE ENCASEMENT TO EXTEND A MINIMUM OF 10' ON BOTH SIDES OF CROSSING.
2. FOR ELEVATION OF PIPES, SEE PLANS.
3. CONCRETE ENCASEMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

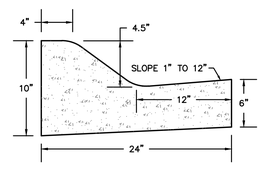
SEPERATION DETAIL
N.T.S.



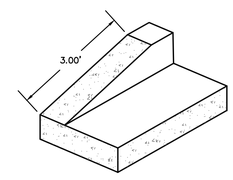
STANDARD TYPE
CURB & GUTTER
N.T.S.



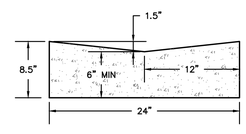
SPILL–OUT TYPE
CURB & GUTTER
N.T.S.



ROLLED TYPE
CURB & GUTTER
N.T.S.

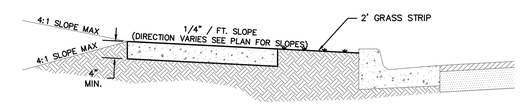


CURB TERMINATION
DETAIL
N.T.S.

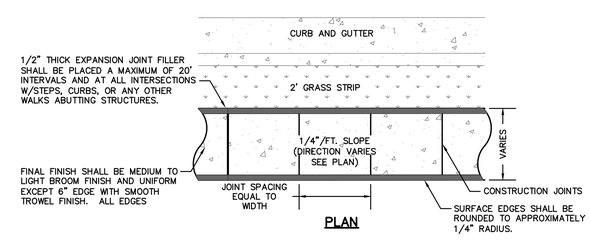


VALLEY TYPE
CURB & GUTTER

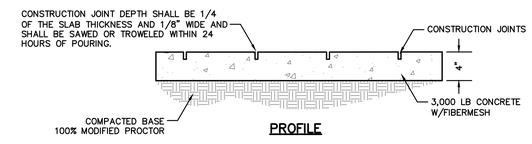
CURB & GUTTER DETAIL
N.T.S.



SECTION



PLAN



PROFILE

TYPICAL SIDEWALK DETAIL
2010–45PRJ
N.T.S.

Not for Bid

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GEORGIA REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON
Paul C. Simonton 12-21-22

Level II Certification No. 935
Expiration Date: 10–01–23

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Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.2

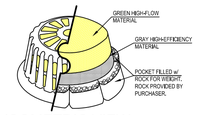
ELEVATION VIEW

PLAN VIEW

FILTER OPTIONS
FILTER IS AVAILABLE IN TWO OPTIONS:
1) ALL HIGH-FLOW FILTER
2) HIGH-FLOW MATERIAL ON TOP HALF, HIGH-EFFRICIENCY MATERIAL ON BOTTOM HALF (THIS FILTER COVER IS RECOMMENDED FOR ALL ROADWAY PROJECTS.) (DOT FILTER)
IT IS THE PURCHASERS RESPONSIBILITY TO PURCHASE APPROPRIATE FILTER. PURCHASER SHALL PROVIDE ROCK FOR FILTER POCKETS.

FILTER INSTALLATION
FILTER SLIDES DIRECTLY OVER FILTER FRAME. TO KEEP FILTER FRAME IN PLACE OVER STORM STRUCTURE, ROCK POCKETS ARE SEWN DIRECTLY INTO FILTER. EVERY FILTER COMES IN ONE PIECE FOR EASY INSTALLATION.

MAINTENANCE
ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT FRAME AND FILTER DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.



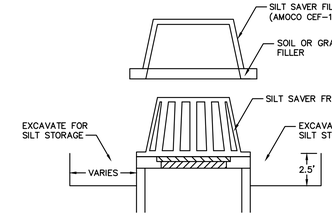
ISOMETRIC VIEW
SHOWN WITH DOT FILTER

REPLACEMENT FILTERS: MODEL # R-140HF OR R-340 DOT

ROUND FRAME & FILTER ASSEMBLY
Model # R-100A AKA "SS-100A (Round)"
60" DIAMETER

FRAME MATERIAL: BLACK 0.25" HMWPE
FILTER FABRIC MATERIAL: REFER TO SPEC
SCALE: NOT TO SCALE
LAST UPDATED: AUGUST 2019

SILT-SAVER, INC. 1200 FORRESTER CEMETERY RD, COVINGTON, GA 30014 PHONE: (770) 388-7818 FAX: (770) 388-7640 TOLL FREE: 1-888-382-SILT (7458) www.siltsaver.com



NOTE:
EACH CATCH BASIN TO BE FITTED W/ AN SD2. IF LABELED AS Sd-2SS, EXCAVATE PER DETAIL TO PROVIDE STORAGE.

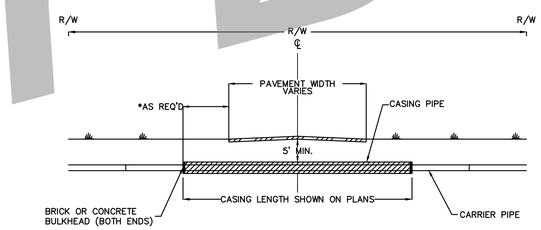
THE DISTANCE TO BE EXCAVATED IS THE RADIUS (R = D/2). SEE THE CHART BELOW FOR EACH SEDIMENT TRAP EXCAVATION DISTANCE.

SECTION

SEDIMENT TRAP-Sd2(SS)
N.T.S.

Sd2 Sizing Chart

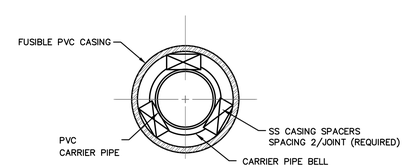
INLET I.D.	DRAINAGE AREA (ACRES)	REQ. SEDIMENT STORAGE (CF)	EXCAVATION DEPTH (FT)	SIDE SLOPES (FT)	MIN. SURFACE AREA REQ. (SA_{MIN}) (SF)	EXCAVATION SHAPE	DIAMETER (FT)
CI-1A	0.22	389.87	2.5	2:1	155.95	CIRCULAR	14
CI-2A	0.08	135.76	2.5	2:1	54.30	CIRCULAR	8
YI-3A	0.06	116.16	2.5	2:1	46.46	CIRCULAR	8
CI-6F	0.16	291.91	2.5	2:1	116.76	CIRCULAR	12
YI-5F	0.13	233.35	2.5	2:1	93.34	CIRCULAR	11
YI-4F	0.09	161.34	2.5	2:1	64.54	CIRCULAR	9
YI-3F	0.06	116.61	2.5	2:1	46.65	CIRCULAR	8
YI-2F	0.10	177.29	2.5	2:1	70.91	CIRCULAR	10
YI-1D	0.19	341.33	2.5	2:1	136.53	CIRCULAR	13
YI-1	0.22	402.79	2.5	2:1	161.12	CIRCULAR	14
YI-2	0.12	218.03	2.5	2:1	87.21	CIRCULAR	11
YI-3	0.14	262.05	2.5	2:1	104.82	CIRCULAR	12
YI-4	0.15	267.36	2.5	2:1	106.95	CIRCULAR	12
YI-13	0.04	76.95	2.5	2:1	30.78	CIRCULAR	6
YI-6	0.08	141.16	2.5	2:1	56.46	CIRCULAR	8
YI-5	0.09	155.73	2.5	2:1	62.29	CIRCULAR	9
YI-36	0.38	695.94	2.5	2:1	278.38	CIRCULAR	19
YI-34	0.16	288.54	2.5	2:1	115.42	CIRCULAR	12
YI-24	0.13	238.25	2.5	2:1	95.30	CIRCULAR	11
YI-25	0.20	361.43	2.5	2:1	144.57	CIRCULAR	14
CI-2	0.09	159.68	2.5	2:1	63.87	CIRCULAR	9
YI-26	0.21	388.21	2.5	2:1	155.28	CIRCULAR	14
YI-32	0.10	177.37	2.5	2:1	70.95	CIRCULAR	10
YI-30	0.16	285.97	2.5	2:1	114.39	CIRCULAR	12
YI-27	0.49	879.54	2.5	2:1	351.82	CIRCULAR	21
YI-29	0.16	282.31	2.5	2:1	112.93	CIRCULAR	12
YI-28	0.15	269.77	2.5	2:1	107.91	CIRCULAR	12



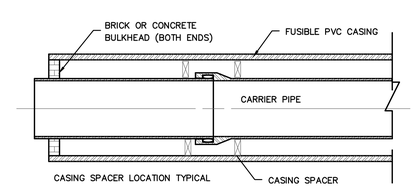
*MINIMUM CASING LENGTH BEYOND EDGE OF PAVEMENT OR CURB SHALL BE EQUAL TO OR GREATER THAN THE CASING DEPTH.

TYPICAL ROADWAY BORE/CROSSING DETAIL
N.T.S.

CASING REQUIREMENTS @ ROADWAY CROSSINGS							
CARRIER PIPE	MATL.	O.D.	MAX O.D @ JOINTS	MIN CASING SIZE	MATL	I.D.	MAX O.D @ JOINTS
10"	PVC	11.10"	14.07"	18"	FUSIBLE PVC	17.20"	23.83"



SECTION



ELEVATION

CASING DETAILS
N.T.S.
2010-45PRJ

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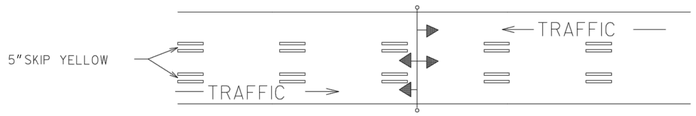
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: CB.3

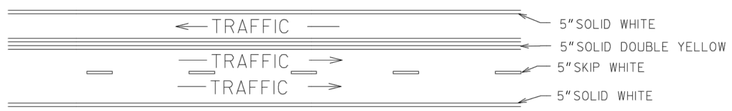
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

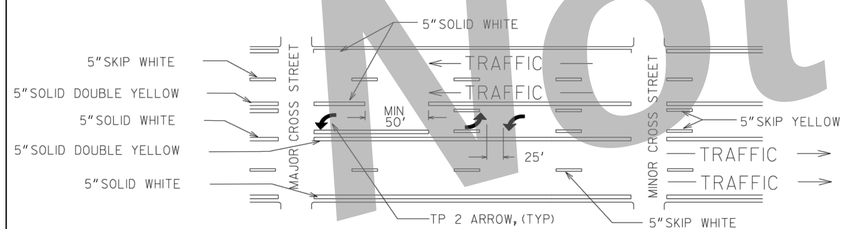
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS

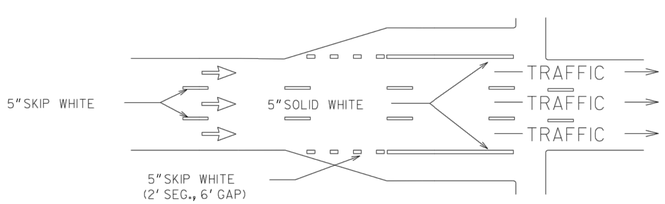


TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS

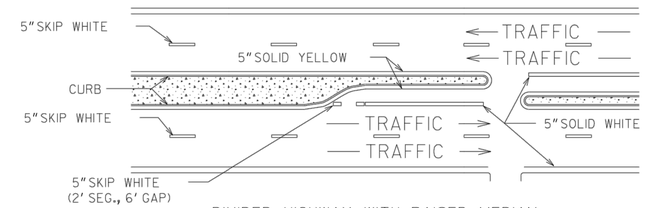
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



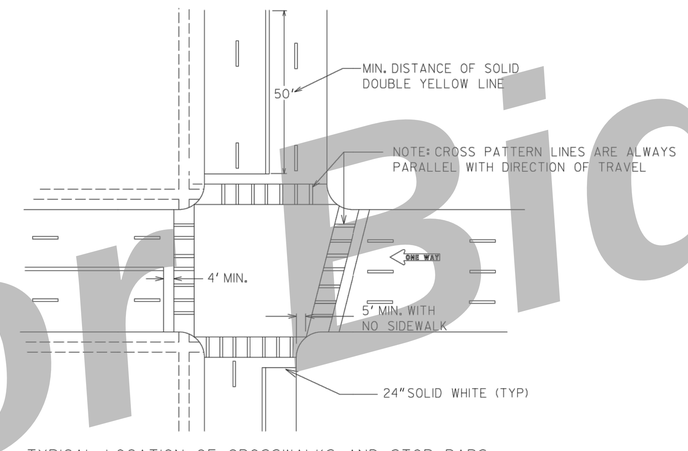
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



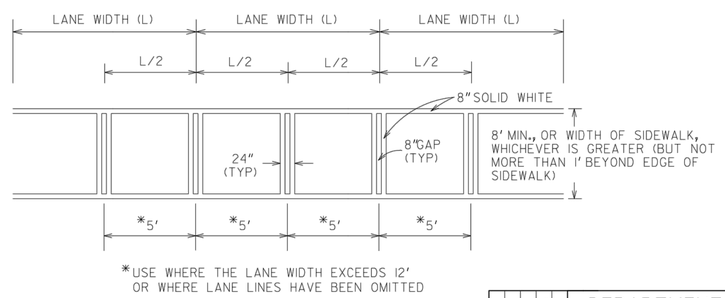
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIB.

		9-15-16	DATE
		ADDED GENERAL NOTE 3	REVISION
		CDR	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

NO SCALE — JANUARY 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

NUMBER T-IIA

Not for Bid

DRAWING COMPLETED BY:

REVISED:

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 22 PAUL C. SIMONTON
Paul C. Simonton 4-21-23

Level II Certification No. 935
Expiration Date: 10-01-23

1050 PARKSIDE COMMONS
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309 N. MAIN ST.
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912-244-7800

www.simontonengineering.com

SIMONTON ENGINEERING

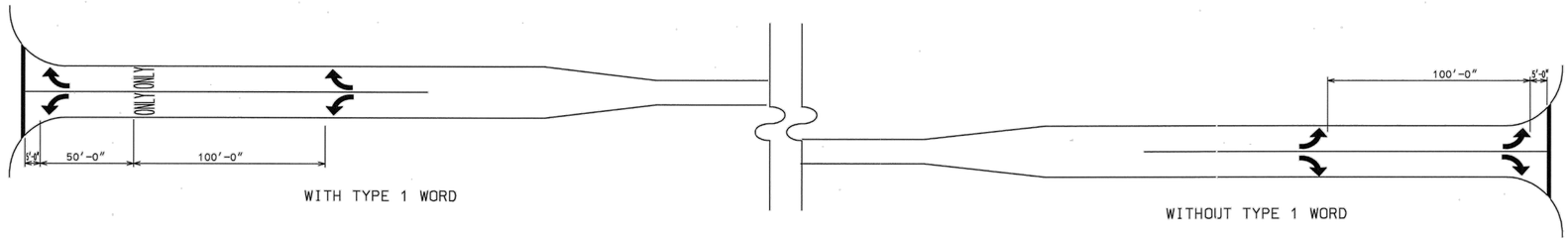
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C3.4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

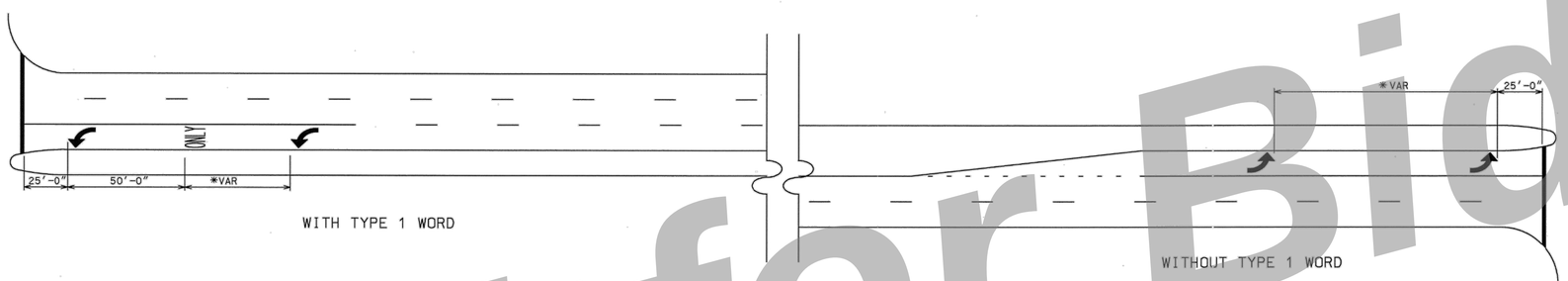
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

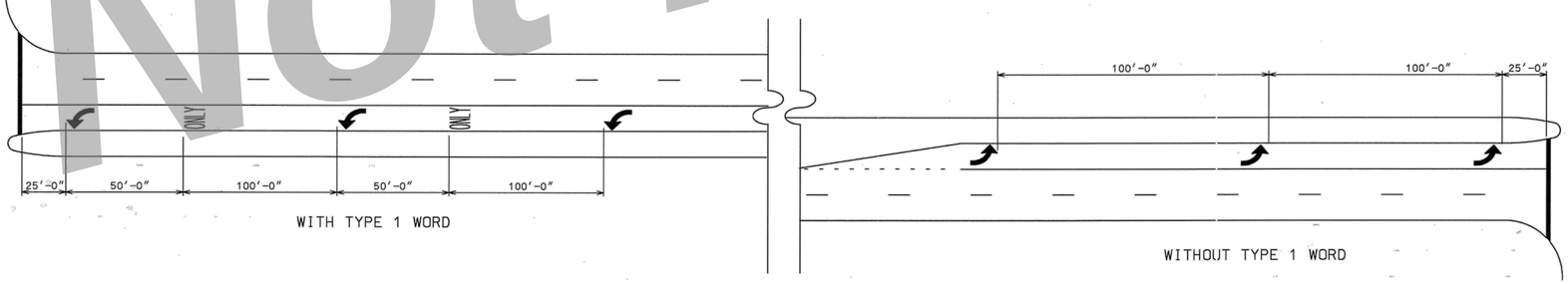


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING ARROW LOCATION

NO SCALE JANUARY 2000

T-12A

PCBDTB

Not for Bid

DRAWING COMPLETED BY:

REVISED:

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CLERC REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON

Paul C. Simonton 8-21-23

Level II Certification No. 935
Expiration Date: 10-01-23

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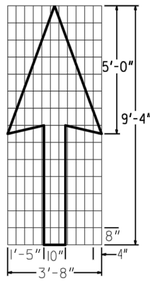
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

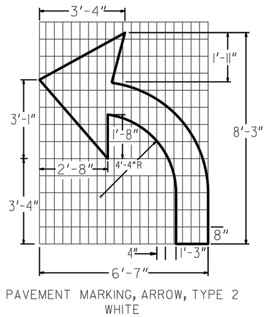
Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.5

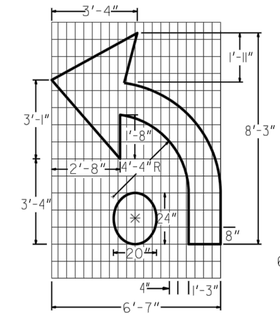
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



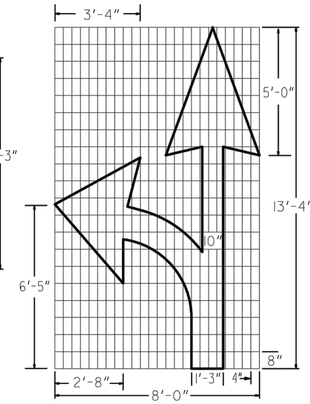
PAVEMENT MARKING, ARROW, TYPE 1
WHITE



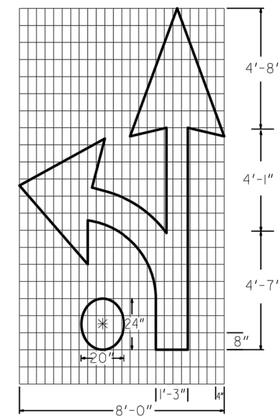
PAVEMENT MARKING, ARROW, TYPE 2
WHITE



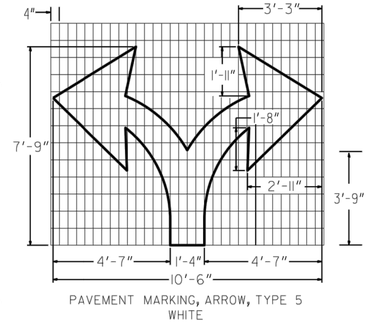
PAVEMENT MARKING, ARROW, TYPE 2A
WHITE



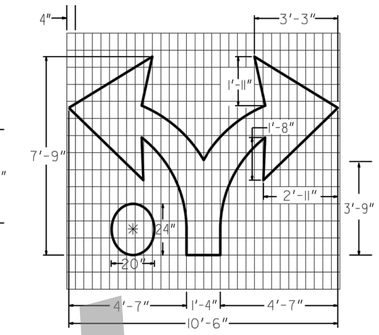
PAVEMENT MARKING, ARROW, TYPE 3
WHITE



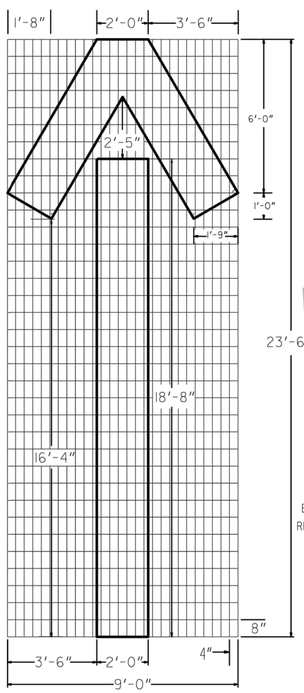
PAVEMENT MARKING, ARROW, TYPE 3A
WHITE



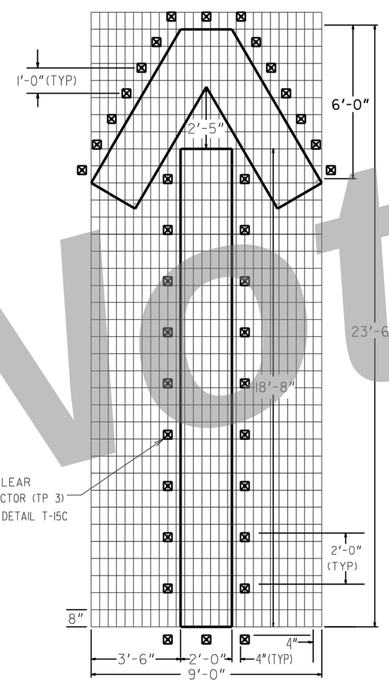
PAVEMENT MARKING, ARROW, TYPE 5
WHITE



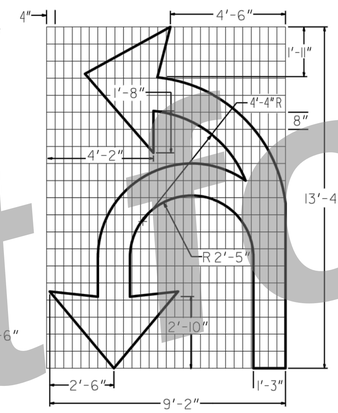
PAVEMENT MARKING, ARROW, TYPE 5A
WHITE



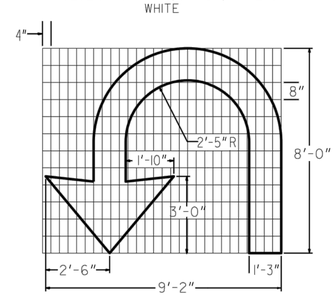
PAVEMENT MARKING, ARROW, TYPE 4
WHITE



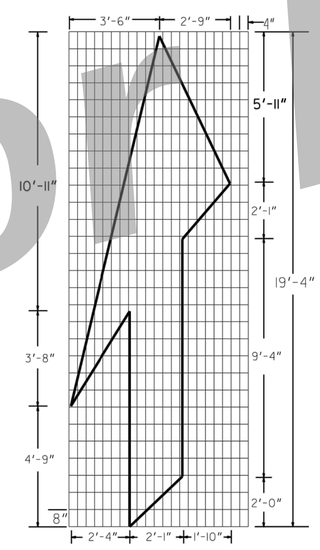
PAVEMENT MARKING, ARROW, WRONG WAY
WHITE



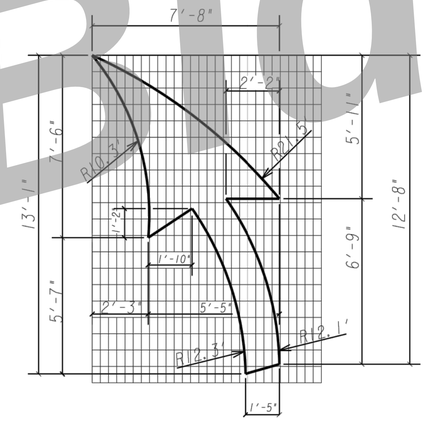
PAVEMENT MARKING, ARROW, TYPE 6
WHITE



PAVEMENT MARKING, ARROW, TYPE 7
WHITE



PAVEMENT MARKING, ARROW, TYPE 8
WHITE



PAVEMENT MARKING, ARROW, TYPE 9
WHITE (MINI ROUNDABOUTS)

NOTES
1. PAVEMENT MARKING ARROWS WITH A DOT (2A, 3A, 5A) SHALL BE USED ALONG MULTI-LANE ROUNDABOUT APPROACHES ALONG THE INSIDE LANE ONLY

BY	REVISION	DATE
ACP	ADDED TP 8 PAVEMENT MARKING ARROWS FOR MINI ROUNDABOUTS	11-04-20
ACP	ADDED PAVEMENT MARKING ARROWS FOR MINI ROUNDABOUTS	05-30-19
ACP	CHANGED LOCATION OF RPMS ON WRONG WAY ARROW	04-11-00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
PAVEMENT MARKINGS - ARROWS

NO SCALE — APRIL 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

NUMBER T-12B

Not for Bid

DRAWING COMPLETED BY:

REVISED:

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CLERC REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON
Paul C. Simonton 4-21-23

Level II Certification No. 935
Expiration Date: 10-01-23

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912-244-7800
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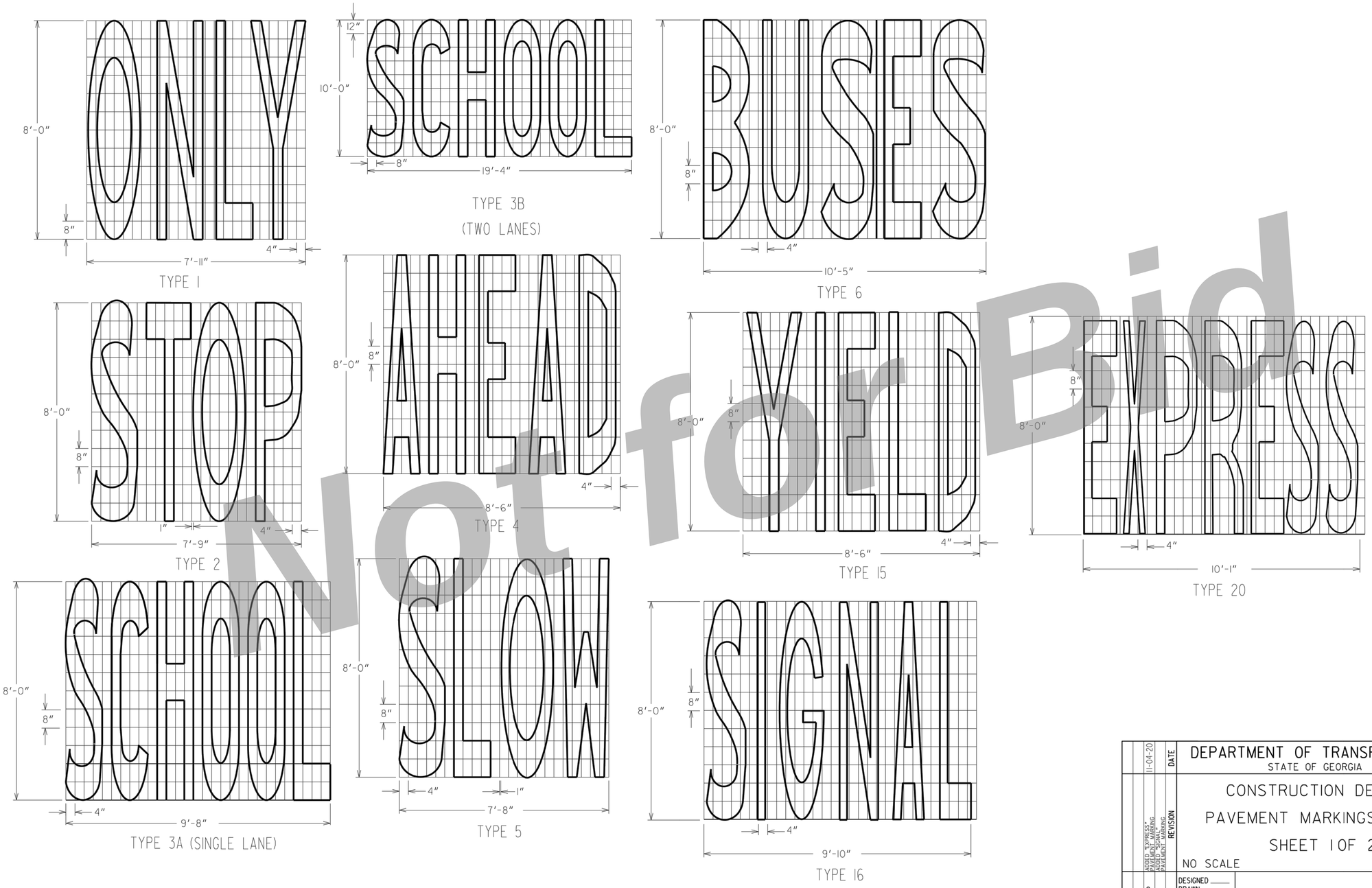
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



Not for Bid

ADDED "EXPRESS" ADDED "SCHOOL" ADDED "SIGNAL" PAVEMENT MARKING	11-04-20	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		REVISION	CONSTRUCTION DETAILS PAVEMENT MARKINGS WORDS SHEET 1 OF 2
			NO SCALE — JAN. 2000
ACP		BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____
			NUMBER T-13A

DRAWING COMPLETED BY:

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 14000 PAUL C. SIMONTON
Expiration Date: 10-31-22

Level II Certification No. 935
Expiration Date: 10-01-23

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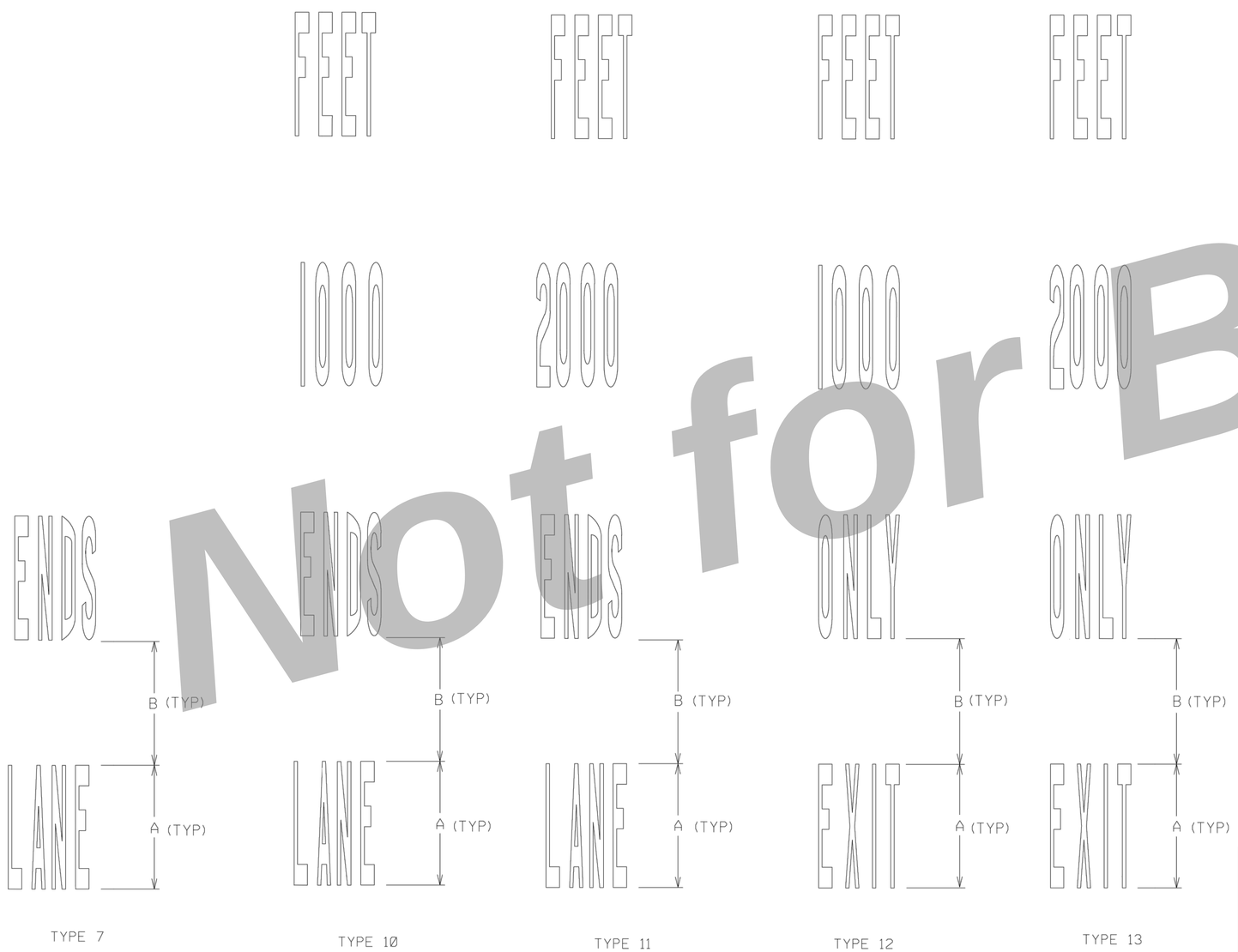
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.7

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SPEED LIMIT	DISTANCE (FEET)	
	A	B
35	8	80
45	8	80
55+	12	120

NOTE:
REFER TO GDOT DETAIL T-13B, MUTCD OR STANDARD HIGHWAY SIGNS GUIDE FOR ADDITIONAL GUIDANCE

Not for Bid

BY	REVISION	DATE
ACP	ADD TYPE 7 PVMT MARKING	09-13-19
	REV TO DIMENSION TABLE	
CDR	REV TO EXIT ONLY 1000 FT	9-15-16
	REV TO EXIT ONLY 2000 FT	
	REV DIST/SPEED LMT CHART	
	REM (AREA SF) WORD TOTAL	
	RENUMBER TO SH 3 OF 3	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

DETAILS OF
PAVEMENT MARKING WORDS
PLACEMENT

NO SCALE — SHEET 3 OF 3 — JANUARY 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

NUMBER T-13C

DRAWING COMPLETED BY:

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GEORGIA REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON

Paul C. Simonton 12-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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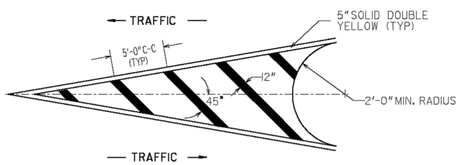
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

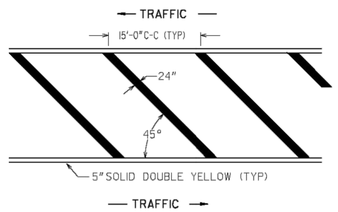
Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.8

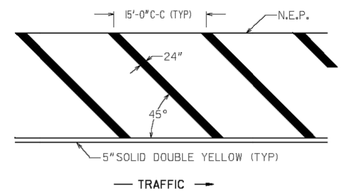
DETAIL "A" (YELLOW)



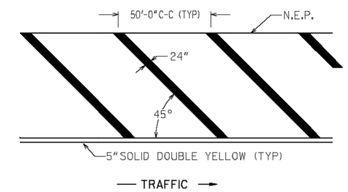
DETAIL "B" (YELLOW)



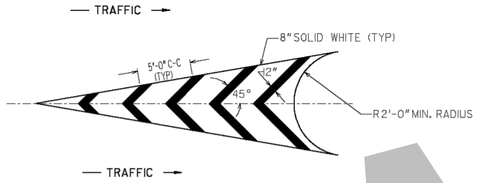
DETAIL "C" (YELLOW)



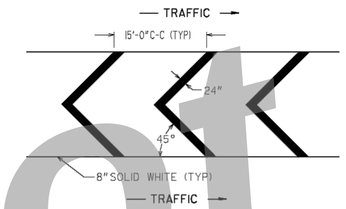
DETAIL "D" (YELLOW)



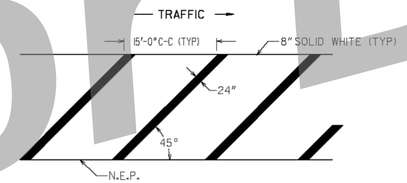
DETAIL "A" (WHITE)



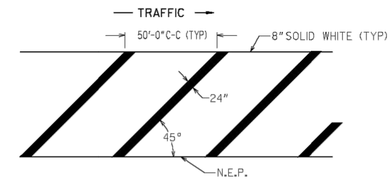
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

Not for Bid

GEORGIA
DEPARTMENT OF TRANSPORTATION

- NO SCALE -

DATE	REVISIONS
6/25/04	Modified general note 1
1/18/05	CHANGED BORDER
11/21/08	Modified general note 1

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNING AND MARKING PLANS

DETAIL OF PAVEMENT MARKING HATCHING
JANUARY 2000

NUMBER T-14
T -14

DRAWING COMPLETED BY:

REVISED:

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 22021 PAUL C. SIMONTON
Paul C. Simonton 10-21-22
Level II Certification No. 935
Expiration Date: 10-01-23

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912-244-7800

www.simontonengineering.com

SIMONTON ENGINEERING

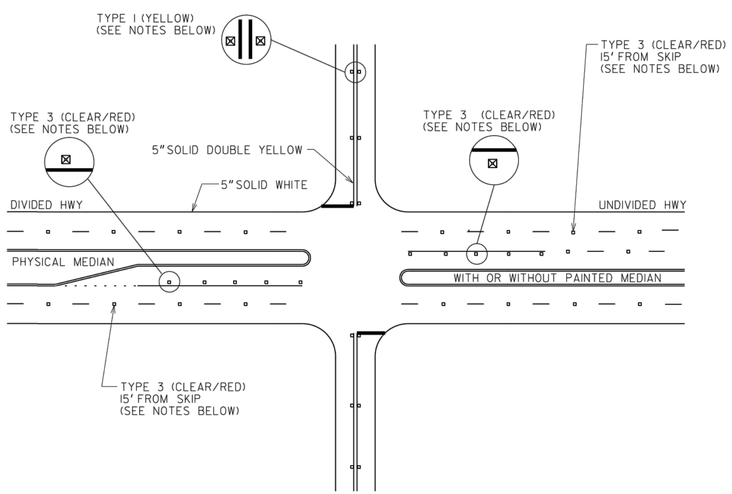
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

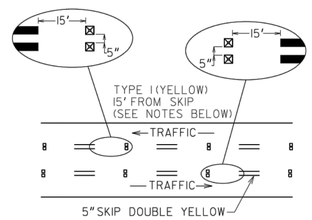
DATE: August 17, 2020
FILE NO.: 2010-45PRJ
SHEET: C8.9

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

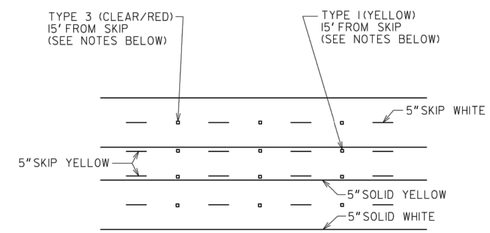
DIVIDED / UNDIVIDED HIGHWAY



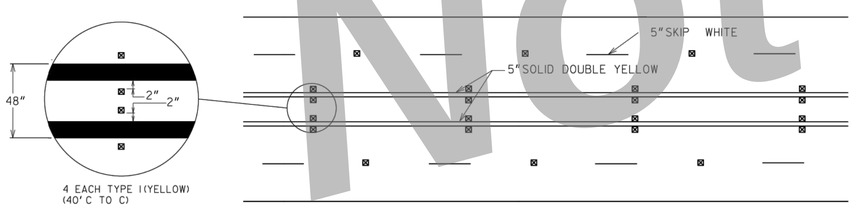
REVERSIBLE LANE



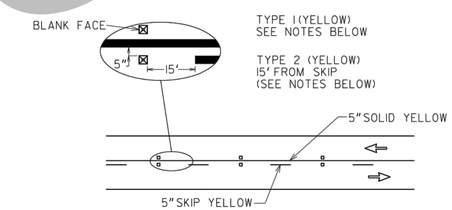
TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



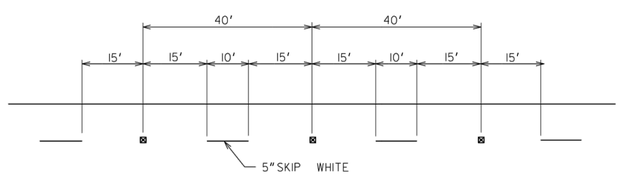
NO PASSING ZONE



GENERAL NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

TYPICAL RPM/STRIPE SPACING



Not for Bid

REV. RPM SPACING TO 40'	9-15-2016	DATE
REVISION		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RAISED PAVEMENT MARKER LOCATION
NON-LIMITED ACCESS ROADWAY

NO SCALE — REV. AND REDRAWN, JUNE 2015

CDR BY — DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____

NUMBER T-15A

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CLORC REGISTERED No. 1 PROFESSIONAL ENGINEER PAUL C. SIMONTON
Paul C. Simonton 10-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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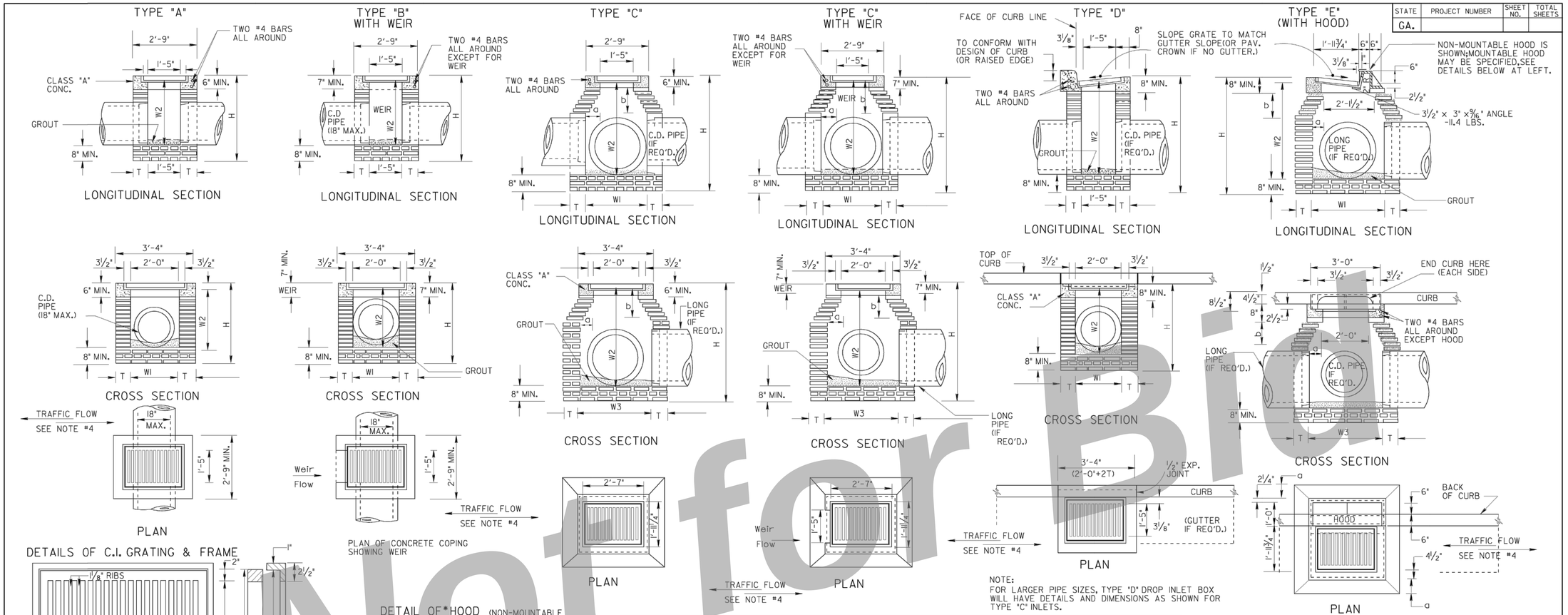
SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES, THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "a" WHICH IS MAXIMUM.

* CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

NOTE:
DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES

NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BUT WHERE H IS OVER 9 FT., AND PIPE IS OVER 30" I.D., THE HORIZONTAL STEEL, WHICH IS MORE THAN 9 FT. DEEP WILL BE INCREASED TO 6" SPACINGS. 6" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST AND/OR STD. 1040 PRECAST AND BUILT-IN-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

NOTE:
FOR LARGER PIPE SIZES, TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. ½" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" or "B" BRICK OR REINF. CONC.			TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C","D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(min)	W1	W2	W3	a (MAX.)	b	H(min.)	W1	W2	W3	a (MAX.)	b	H(min.)	W1 type "C"	W1 type "E"	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3½"	2'-2⅛"	2'-11"	2'-9⅛"	0'-4⅜"	0'-7⅞"	3'-9½"	3'-2⅛"	3'- 1"	3'-0⅝"	0'-7⅜"	1'-1⅛"	3'-11½"	2'- 0"	2'- 1"	2'- 7"	2'- 0"	3½"	6"	3'- 6"
18"	2'- 0"	2'-10"	3'- 7"	2'-2⅛"	3'-2½"	2'-9⅛"	0'-4⅜"	0'-7⅞"	4'-1"	3'-2⅛"	3'-4½"	3'-0⅝"	0'-7⅜"	1'-1⅛"	4'- 1"	2'- 0"	2'- 1"	3'- 0"	2'- 0"	3½"	6"	3'-11"
24"	~	~	~	2'-8⅛"	3'-3⅛"	3'-3⅛"	0'-7⅜"	1'-1⅛"	4'- 9"	3'-2⅛"	3'-11½"	3'-0⅝"	0'-7⅜"	1'-1⅛"	4'-8¼"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6½"	11¼"	4'- 7"
30"	~	~	~	3'-7¼"	4'-0¼"	3'-10⅛"	1'-0⅛"	1'- 9"	5'-10"	3'-5½"	4'-8⅜"	3'- 4"	0'- 8"	1'-1⅞"	5'-6⅞"	3'- 4"	3'- 6"	4'- 9"	3'- 0"	9½"	16½"	5'-10"
36"	~	~	~	4'-1⅞"	6'-0⅝"	4'-8⅞"	1'-4⅞"	2'-2¼"	6'-11⅛"	3'-11½	5'-8⅜"	3'-10"	0'-11"	1'-7⅛"	6'-7⅛"	3'-10"	4'- 0"	5'-10"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	~	~	~	4'-5 "	7'-1¾"	5'- 0"	1'- 6"	2'-7⅜"	8'-0¼"	4'-6½"	7'-5⅜"	4'- 5"	1'-2½"	2'-1⅜"	8'-4⅜"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-5½"	7'-11"
48"	~	~	~	5'- 0"	8'-2¾"	5'- 7"	1'-9½"	3'-1¼"	9'-1¼"	5'-1½"	8'-6⅜"	5'- 0"	1'- 6"	2'-7⅜"	9'-5⅜"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9½"	3'-1½"	9'- 2"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-7½"	10'-2½"	5'-8½"	9'-7¾"	5'- 7"	1'-9½"	3'-1¼"	10'-6¼"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0½"	3'-6½"	10'- 0"
60"	~	~	~	6'- 2"	1'-4⅞"	6'- 9"	2'-4½"	4'-1⅜"	11'-3¼"	6'-3½"	10'-8⅜"	6'- 2"	2'- 1"	3'-7⅞"	11'-7⅝"	6'- 0"	6'- 0"	10'- 3"	6'- 0"	2'-3½"	4'- 0"	11'- 1"

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN — REV. & REDR. AUG., 1999

DATE | REVISION | BY | DES. | REV. | TRA. | CHK.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) CHIEF ENGINEER

NUMBER 1019A

Not for Bid

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Paul C. Simonton 2-21-22

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SIMONTON ENGINEERING

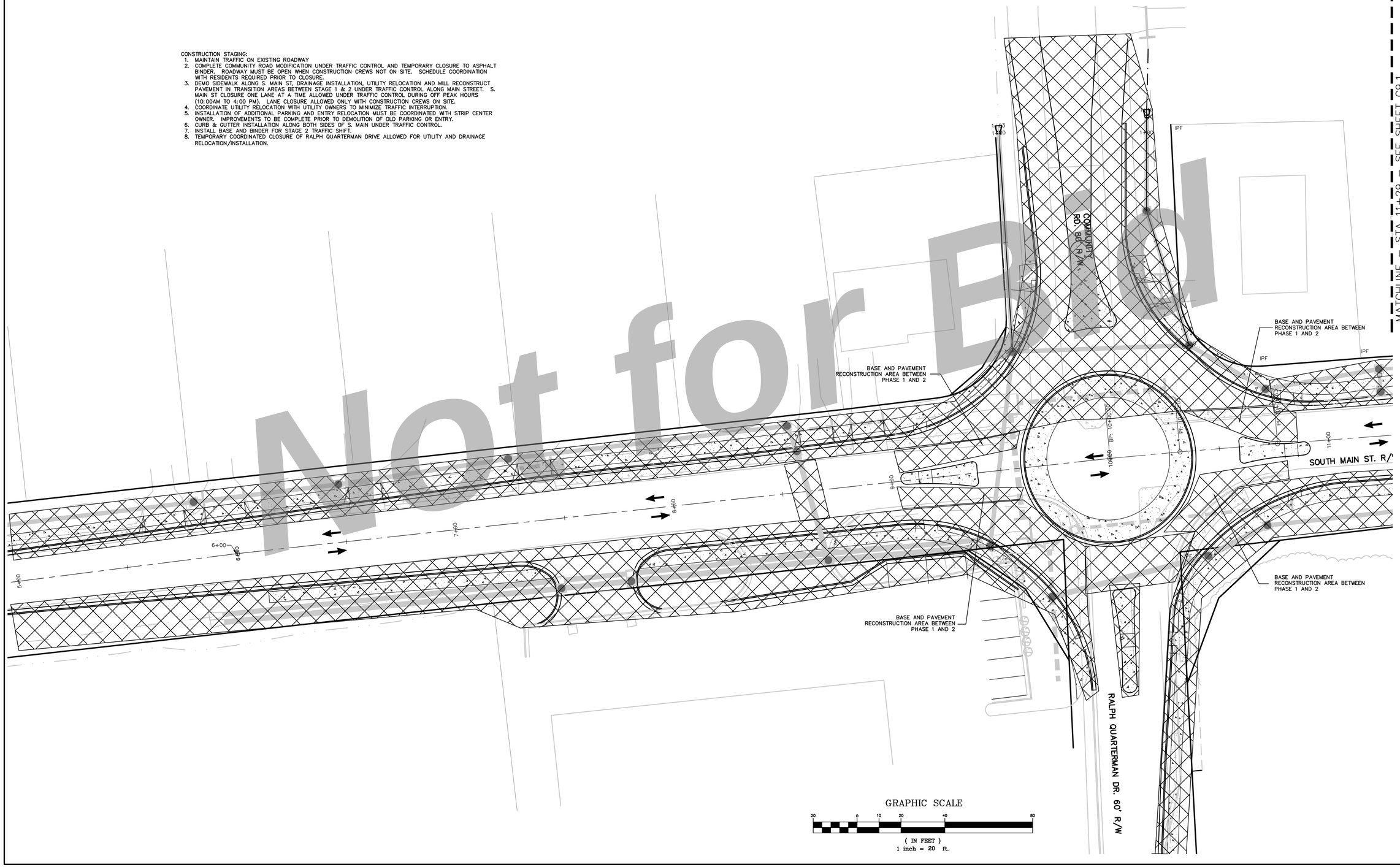
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Details

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C8.11

CONSTRUCTION STAGING:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. COMPLETE COMMUNITY ROAD MODIFICATION UNDER TRAFFIC CONTROL AND TEMPORARY CLOSURE TO ASPHALT BINDER. ROADWAY MUST BE OPEN WHEN CONSTRUCTION CREWS NOT ON SITE. SCHEDULE COORDINATION WITH RESIDENTS REQUIRED PRIOR TO CLOSURE.
3. DEMO SIDEWALK ALONG S. MAIN ST, DRAINAGE INSTALLATION, UTILITY RELOCATION AND MILL RECONSTRUCT PAVEMENT IN TRANSITION AREAS BETWEEN STAGE 1 & 2 UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ONE LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
4. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
5. INSTALLATION OF ADDITIONAL PARKING AND ENTRY RELOCATION MUST BE COORDINATED WITH STRIP CENTER OWNER. IMPROVEMENTS TO BE COMPLETE PRIOR TO DEMOLITION OF OLD PARKING OR ENTRY.
6. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
7. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
8. TEMPORARY COORDINATED CLOSURE OF RALPH QUARTERMAN DRIVE ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.



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MATCHLINE – STA 11+29 – SEE SHEET C9.1

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GEORGIA REGISTERED PROFESSIONAL ENGINEER PAUL C. SIMONTON

Paul C. Simonton 9-21-22

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

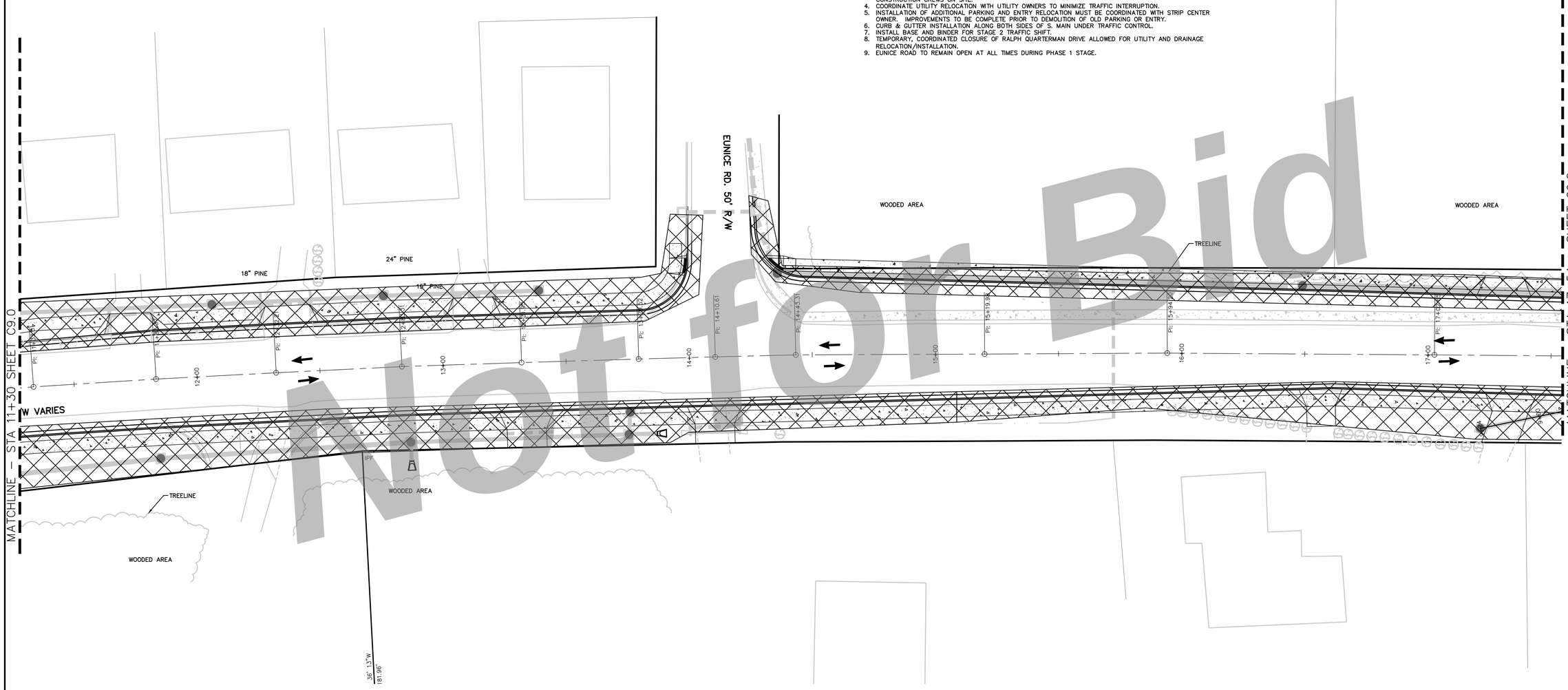
Liberty County, Georgia

Stage 1 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.0

CONSTRUCTION STAGING:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. COMPLETE COMMUNITY ROAD MODIFICATION UNDER TRAFFIC CONTROL AND TEMPORARY CLOSURE TO ASPHALT BINDER. ROADWAY MUST BE OPEN WHEN CONSTRUCTION CREWS NOT ON SITE. SCHEDULE COORDINATION WITH RESIDENTS REQUIRED PRIOR TO CLOSURE
3. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
4. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
5. INSTALLATION OF ADDITIONAL PARKING AND ENTRY RELOCATION MUST BE COORDINATED WITH STRIP CENTER OWNER. IMPROVEMENTS TO BE COMPLETE PRIOR TO DEMOLITION OF OLD PARKING OR ENTRY.
6. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
7. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
8. TEMPORARY, COORDINATED CLOSURE OF RALPH QUARTERMAN DRIVE ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
9. EUNICE ROAD TO REMAIN OPEN AT ALL TIMES DURING PHASE 1 STAGE.



Not for Bid

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 24 PAUL C. SIMONTON

Paul C. Simonton 01-21-22

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SIMONTON ENGINEERING

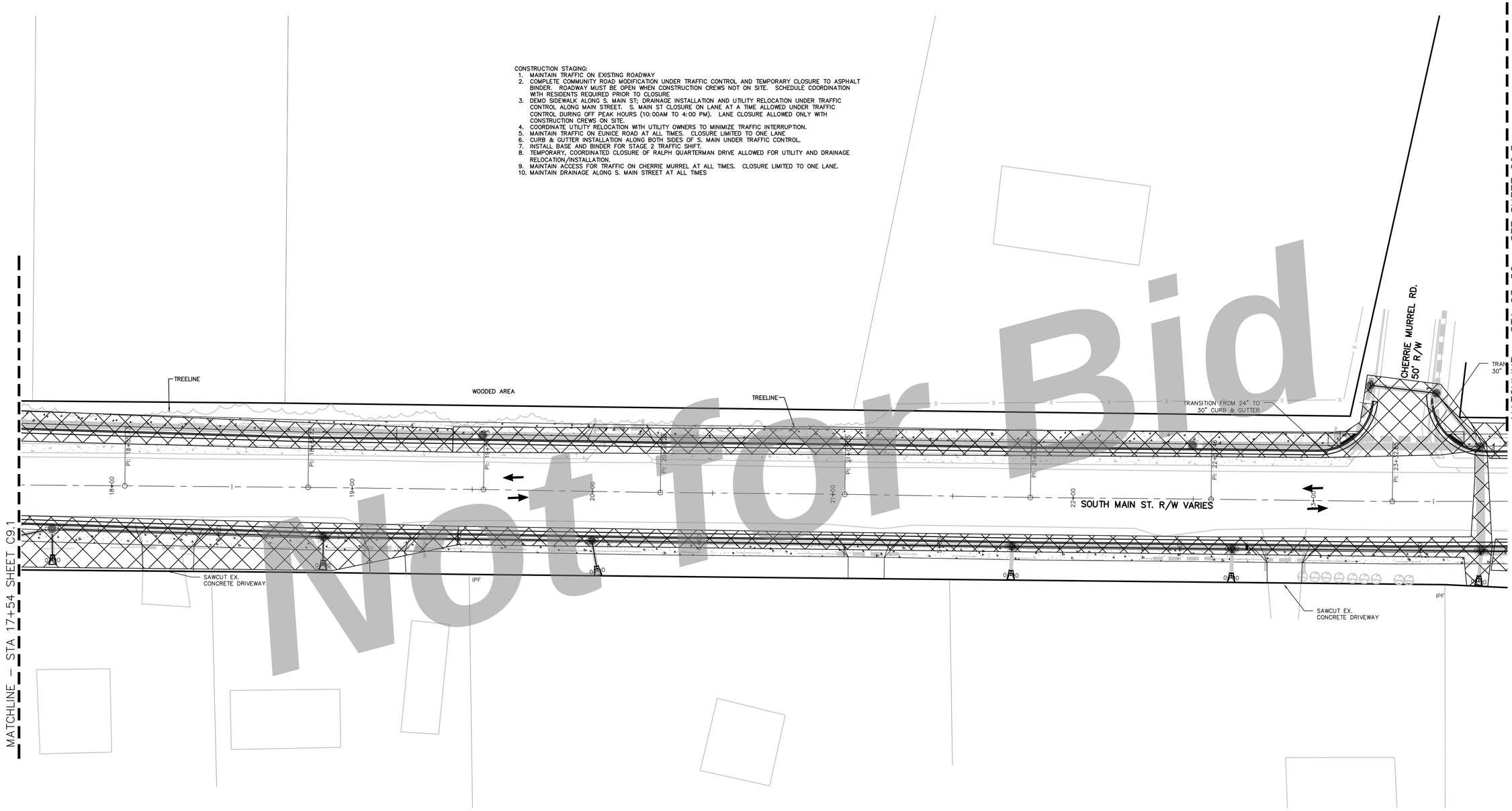
South Main Street Widening
for
The City of Hinesville

Liberty County, Georgia

Stage 1 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C9.1

CONSTRUCTION STAGING:
1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. COMPLETE COMMUNITY ROAD MODIFICATION UNDER TRAFFIC CONTROL AND TEMPORARY CLOSURE TO ASPHALT BINDER. ROADWAY MUST BE OPEN WHEN CONSTRUCTION CREWS NOT ON SITE. SCHEDULE COORDINATION WITH RESIDENTS REQUIRED PRIOR TO CLOSURE
3. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
4. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
5. MAINTAIN TRAFFIC ON EUNICE ROAD AT ALL TIMES. CLOSURE LIMITED TO ONE LANE
6. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
7. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
8. TEMPORARY, COORDINATED CLOSURE OF RALPH QUARTERMAN DRIVE ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
9. MAINTAIN ACCESS FOR TRAFFIC ON CHERRIE MURREL AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
10. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SIMONTON ENGINEERING

South Main Street Widening
for
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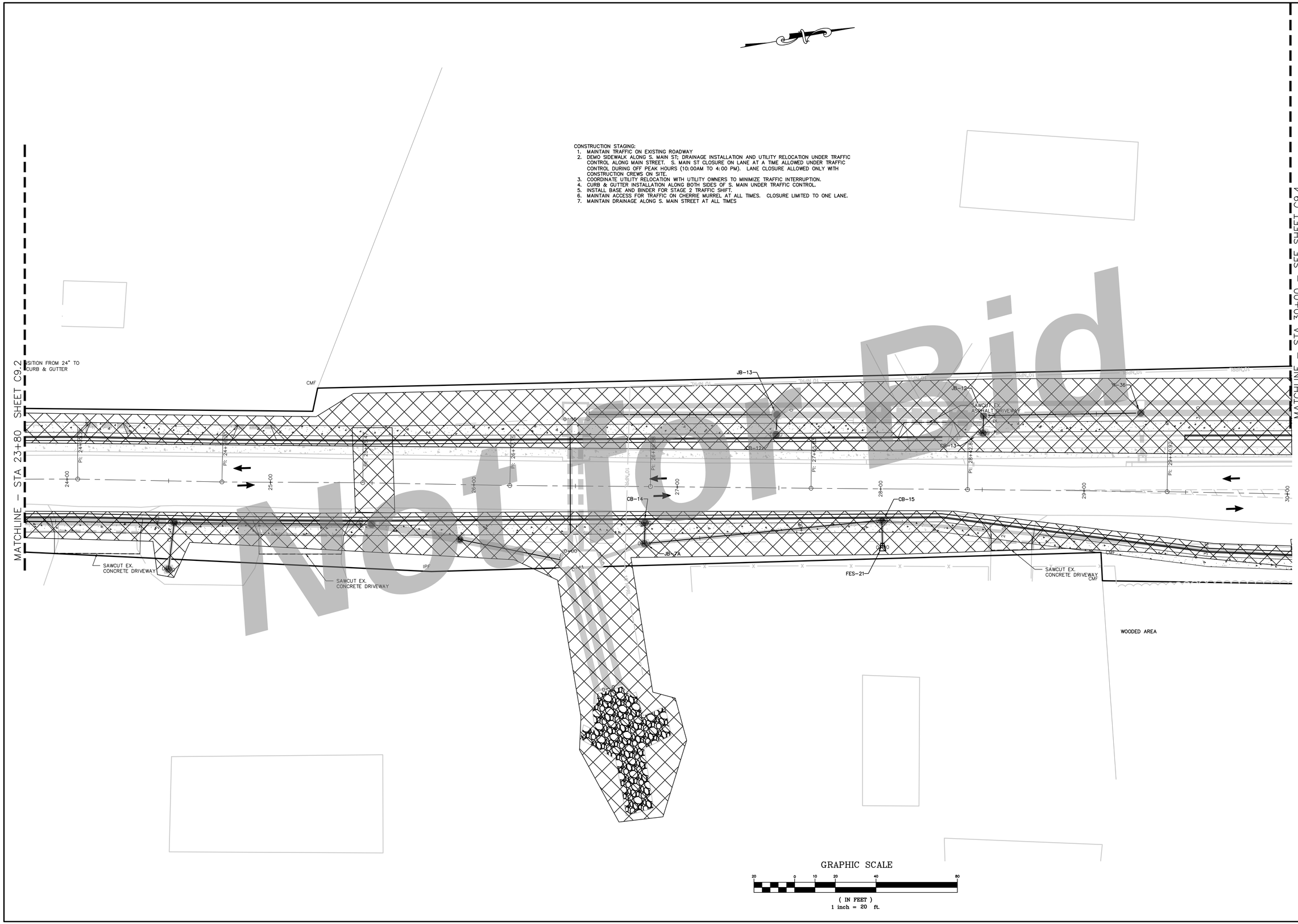
Liberty County, Georgia

Stage 1 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.2

CONSTRUCTION STAGING:
1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. MAINTAIN ACCESS FOR TRAFFIC ON CHERRIE MURREL AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
7. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES



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SIMONTON ENGINEERING

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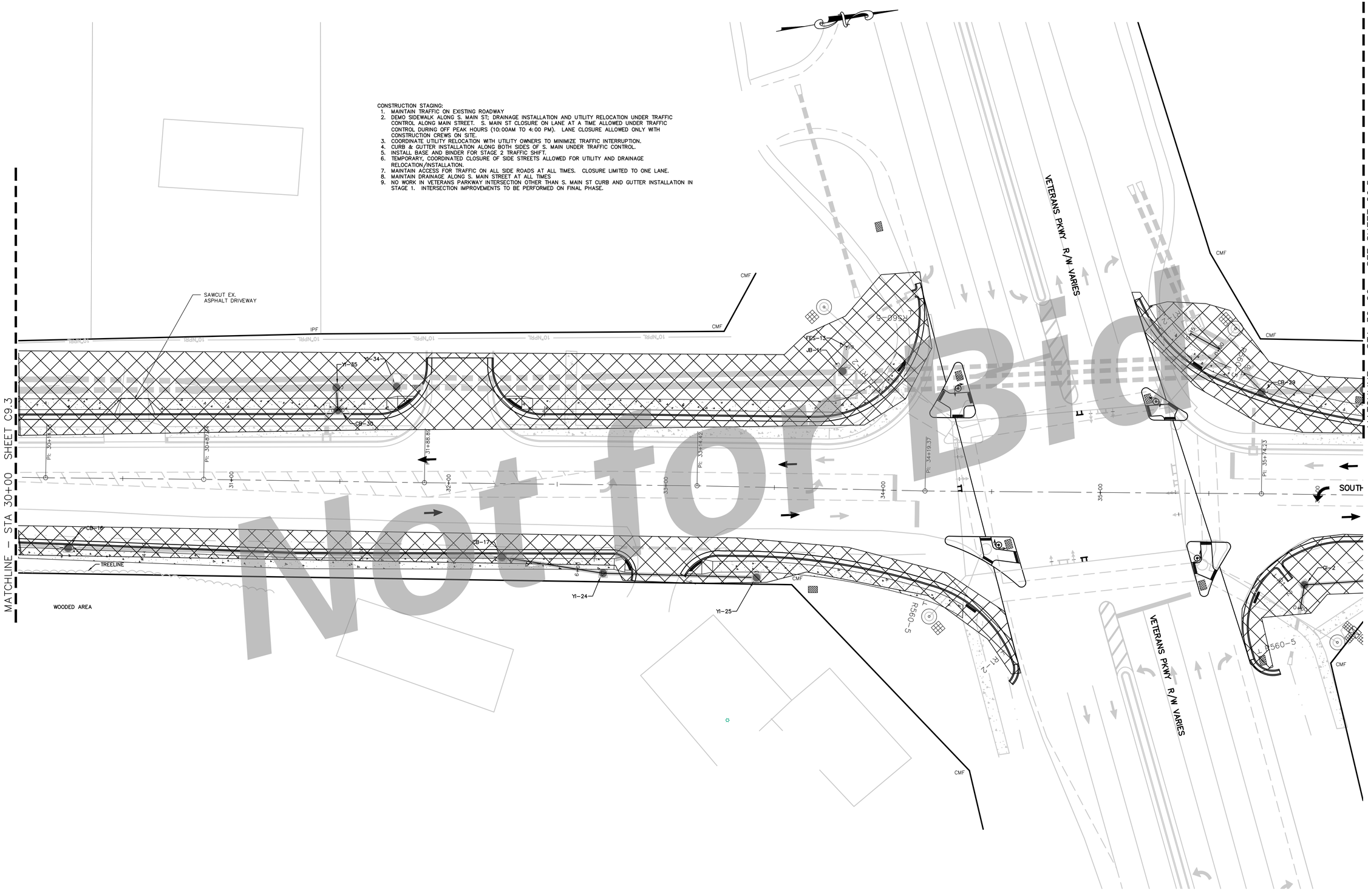
Liberty County, Georgia

Stage 1 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.3

CONSTRUCTION STAGING:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. TEMPORARY, COORDINATED CLOSURE OF SIDE STREETS ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
7. MAINTAIN ACCESS FOR TRAFFIC ON ALL SIDE ROADS AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
8. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES
9. NO WORK IN VETERANS PARKWAY INTERSECTION OTHER THAN S. MAIN ST CURB AND GUTTER INSTALLATION IN STAGE 1. INTERSECTION IMPROVEMENTS TO BE PERFORMED ON FINAL PHASE.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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GEORGIA REGISTERED No. 11855 PROFESSIONAL ENGINEER PAUL C. SIMONTON
Paul C. Simonton 10-21-22

Level II Certification No. 935
Expiration Date: 10-01-25

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South Main Street Widening
for
The City of Hinesville

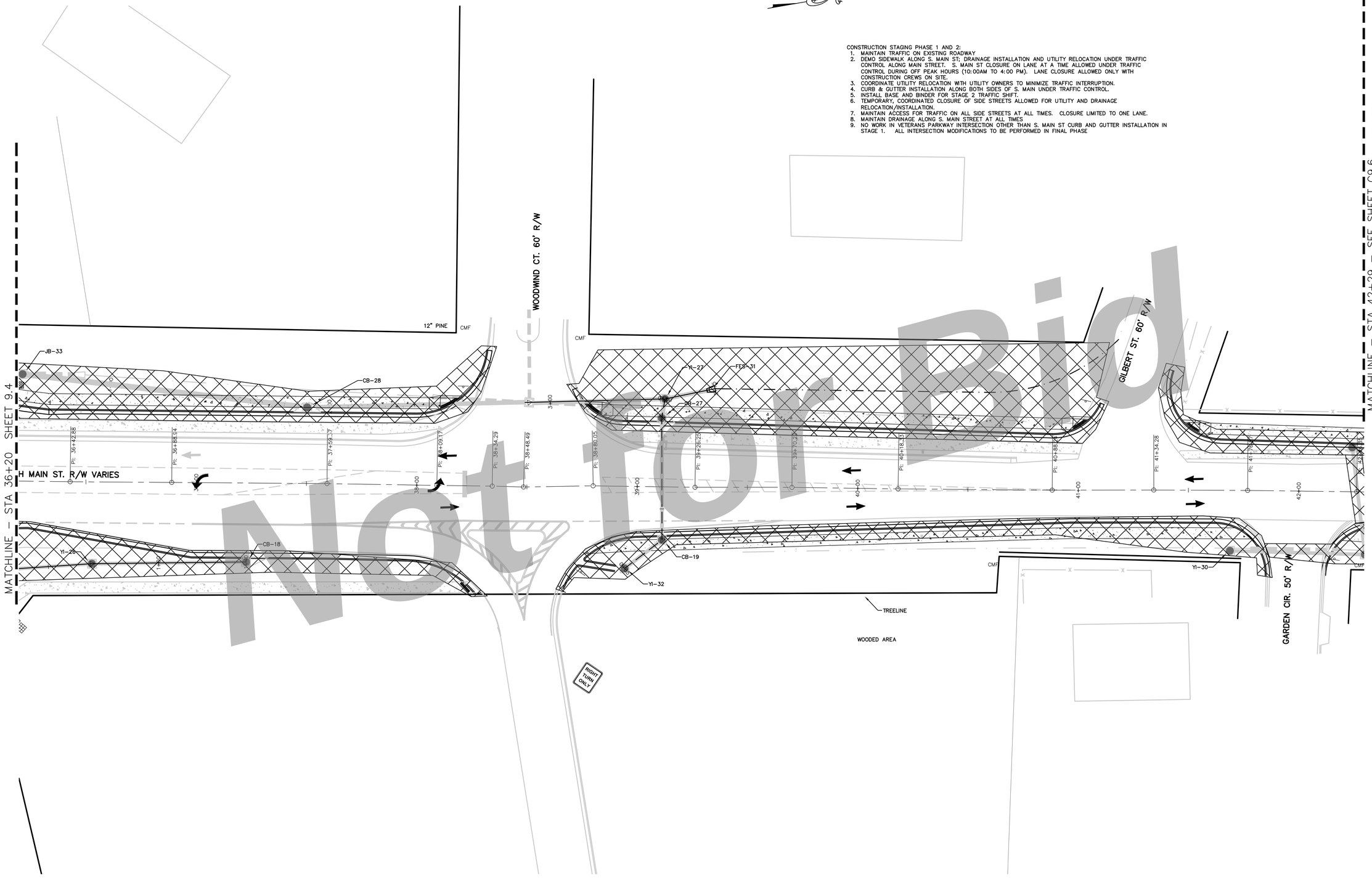
Liberty County, Georgia

Stage 1 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.4

CONSTRUCTION STAGING PHASE 1 AND 2:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. TEMPORARY, COORDINATED CLOSURE OF SIDE STREETS ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
7. MAINTAIN ACCESS FOR TRAFFIC ON ALL SIDE STREETS AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
8. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES
9. NO WORK IN VETERANS PARKWAY INTERSECTION OTHER THAN S. MAIN ST CURB AND GUTTER INSTALLATION IN STAGE 1. ALL INTERSECTION MODIFICATIONS TO BE PERFORMED IN FINAL PHASE



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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GEORGE PAUL C. SIMONTON REGISTERED No. PROFESSIONAL ENGINEER

Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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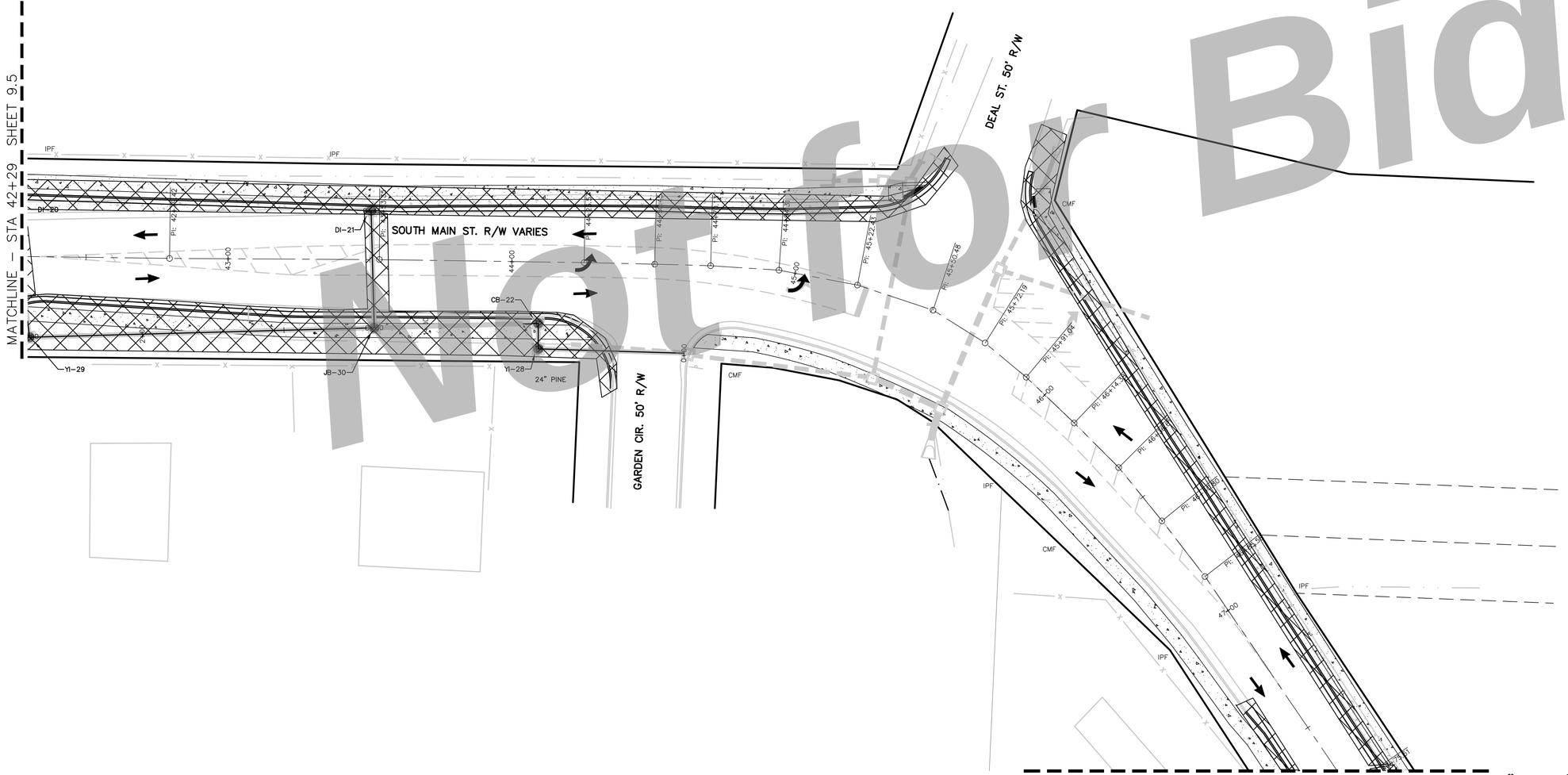
South Main Street Widening
for
The City of Hinesville
Liberty County, Georgia

Stage 1 & 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.5

CONSTRUCTION STAGING PHASE 1 & 2:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. TEMPORARY, COORDINATED CLOSURE OF SIDE STREETS ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
7. MAINTAIN ACCESS FOR TRAFFIC ON ALL SIDE STREETS AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
8. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES
9. NO WORK IN VETERANS PARKWAY INTERSECTION OTHER THAN S. MAIN ST CURB AND GUTTER INSTALLATION IN STAGE 1
10. STATION 47+00 TO STATION 55+00 NARROW LANES TO 10' EACH WITH TRAFFIC CONTROL BARRELS FOR INSTALLATION OF UTILITY RELOCATION, DRAINAGE AND CURB AND GUTTER



Not for Bid

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MATCHLINE – STA 15+00 – SEE SHEET C5.1

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Level II Certification No. 935
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South Main Street Widening
for
The City of Hinesville

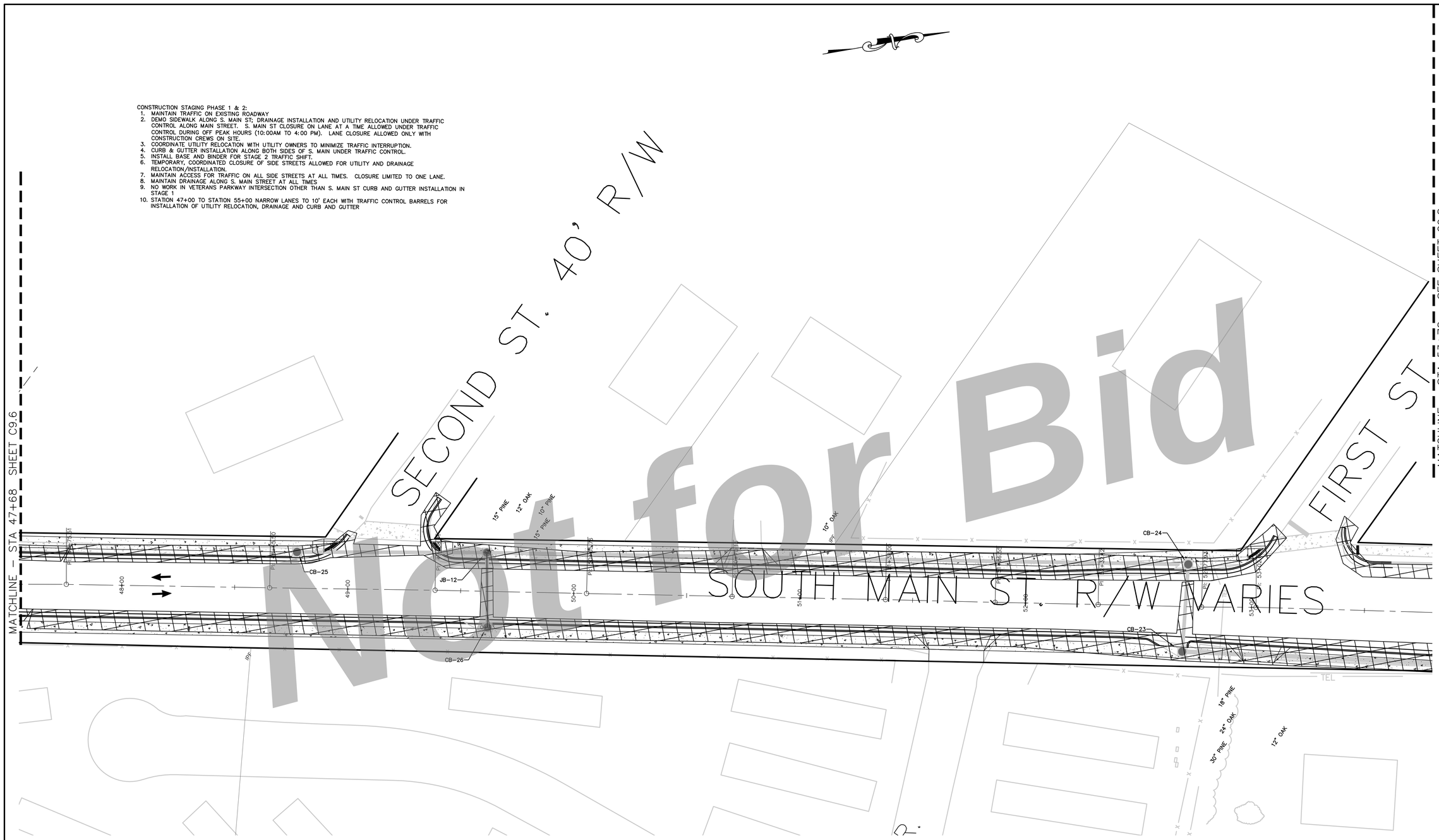
Liberty County, Georgia

Stage 1 & 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.6

CONSTRUCTION STAGING PHASE 1 & 2:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST; DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. TEMPORARY, COORDINATED CLOSURE OF SIDE STREETS ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
7. MAINTAIN ACCESS FOR TRAFFIC ON ALL SIDE STREETS AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
8. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES
9. NO WORK IN VETERANS PARKWAY INTERSECTION OTHER THAN S. MAIN ST CURB AND GUTTER INSTALLATION IN STAGE 1
10. STATION 47+00 TO STATION 55+00 NARROW LANES TO 10' EACH WITH TRAFFIC CONTROL BARRELS FOR INSTALLATION OF UTILITY RELOCATION, DRAINAGE AND CURB AND GUTTER



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

DRAWING COMPLETED BY:

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Paul C. Simonton 10-21-22

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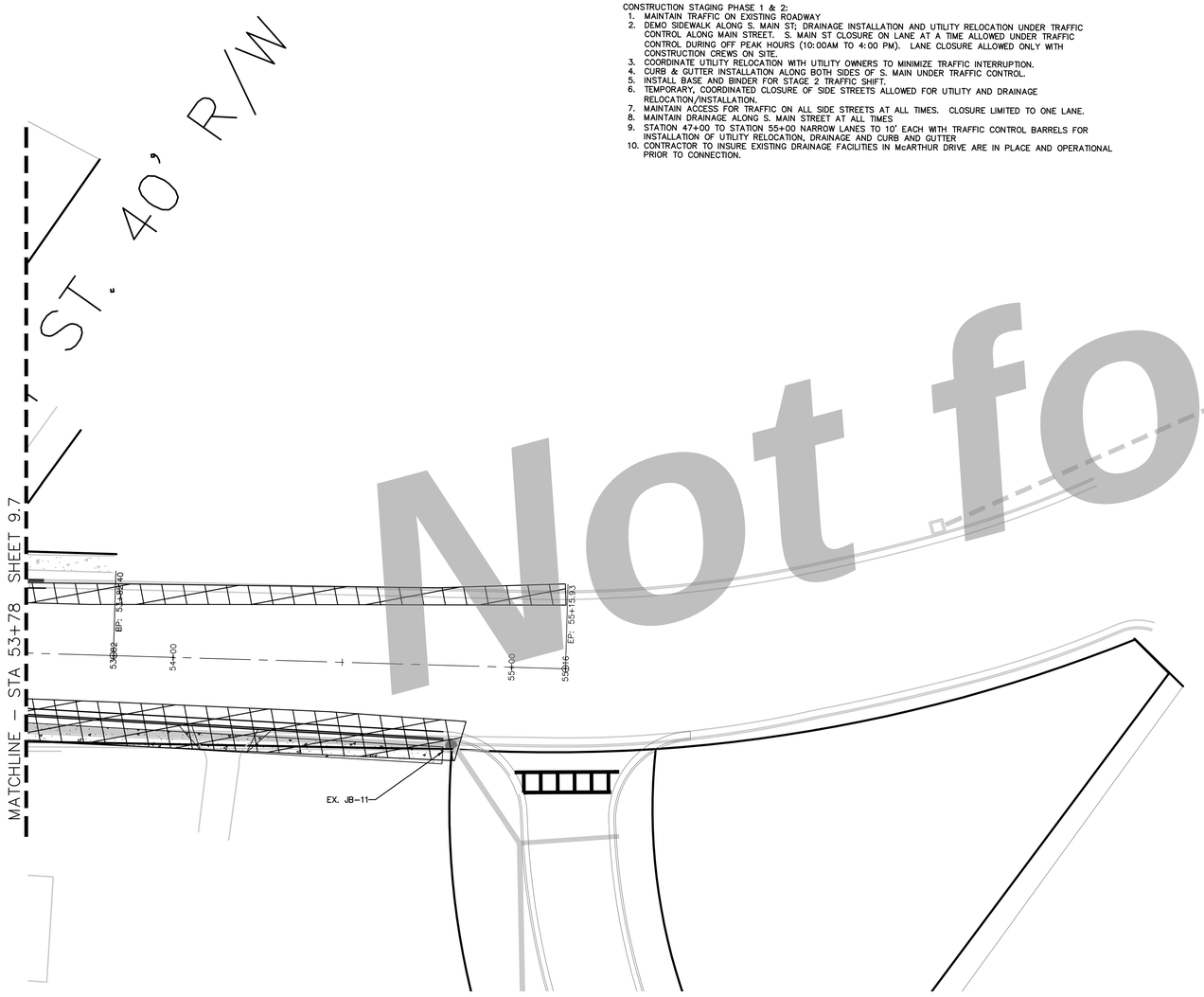
Liberty County, Georgia

Stage 1 & 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.7

CONSTRUCTION STAGING PHASE 1 & 2:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY
2. DEMO SIDEWALK ALONG S. MAIN ST. DRAINAGE INSTALLATION AND UTILITY RELOCATION UNDER TRAFFIC CONTROL ALONG MAIN STREET. S. MAIN ST CLOSURE ON LANE AT A TIME ALLOWED UNDER TRAFFIC CONTROL DURING OFF PEAK HOURS (10:00AM TO 4:00 PM). LANE CLOSURE ALLOWED ONLY WITH CONSTRUCTION CREWS ON SITE.
3. COORDINATE UTILITY RELOCATION WITH UTILITY OWNERS TO MINIMIZE TRAFFIC INTERRUPTION.
4. CURB & GUTTER INSTALLATION ALONG BOTH SIDES OF S. MAIN UNDER TRAFFIC CONTROL.
5. INSTALL BASE AND BINDER FOR STAGE 2 TRAFFIC SHIFT.
6. TEMPORARY, COORDINATED CLOSURE OF SIDE STREETS ALLOWED FOR UTILITY AND DRAINAGE RELOCATION/INSTALLATION.
7. MAINTAIN ACCESS FOR TRAFFIC ON ALL SIDE STREETS AT ALL TIMES. CLOSURE LIMITED TO ONE LANE.
8. MAINTAIN DRAINAGE ALONG S. MAIN STREET AT ALL TIMES
9. STATION 47+00 TO STATION 55+00 NARROW LANES TO 10' EACH WITH TRAFFIC CONTROL BARRELS FOR INSTALLATION OF UTILITY RELOCATION, DRAINAGE AND CURB AND GUTTER
10. CONTRACTOR TO INSURE EXISTING DRAINAGE FACILITIES IN McARTHUR DRIVE ARE IN PLACE AND OPERATIONAL PRIOR TO CONNECTION.



Not for Bid

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MATCHLINE – STA 15+00 – SEE SHEET C5.1 DRAWING COMPLETED BY: _____

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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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South Main Street Widening
for
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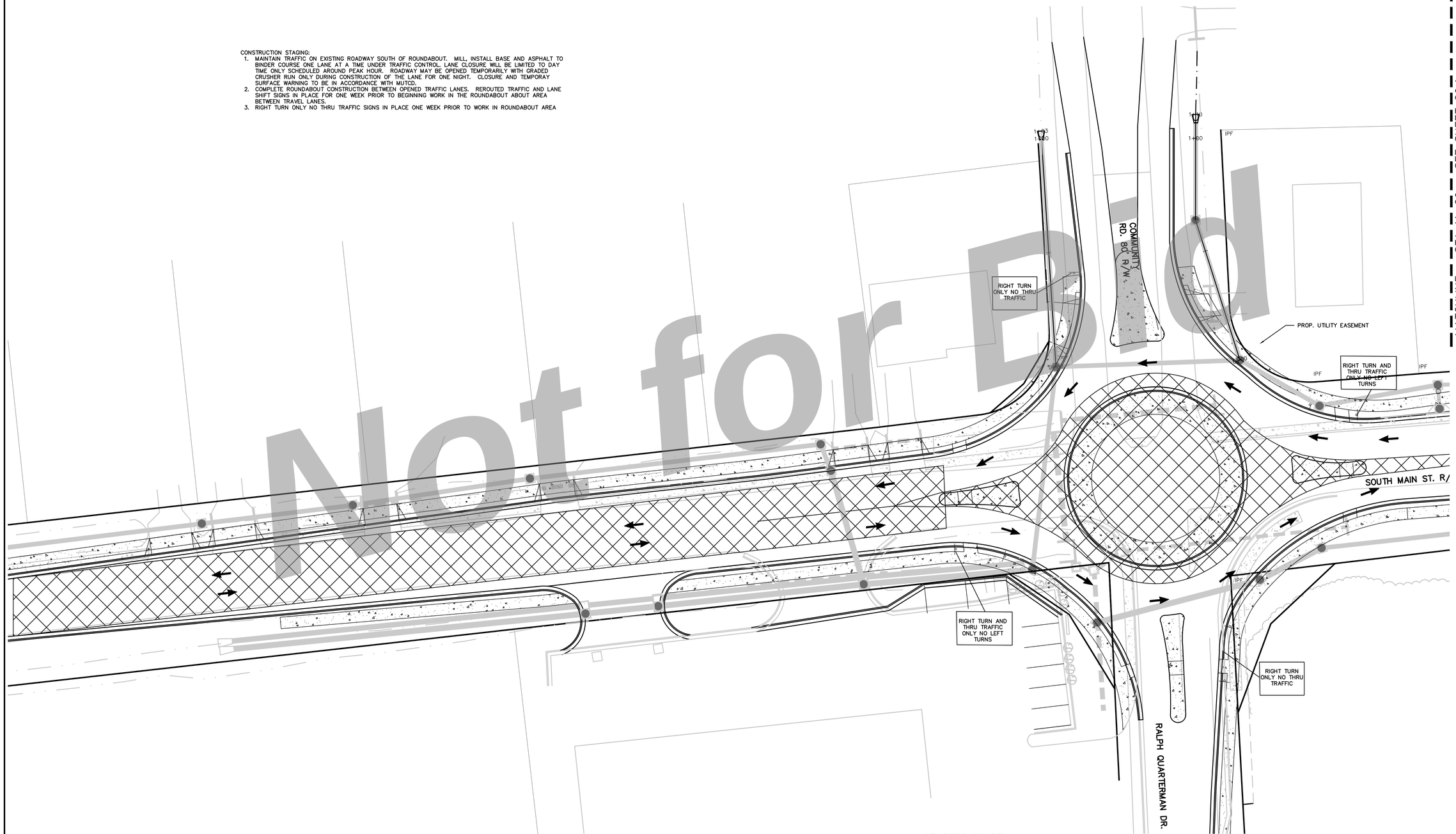
Liberty County, Georgia

Stage 1 & 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.8

CONSTRUCTION STAGING:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY SOUTH OF ROUNDABOUT. MILL, INSTALL BASE AND ASPHALT TO BINDER COURSE ONE LANE AT A TIME UNDER TRAFFIC CONTROL. LANE CLOSURE WILL BE LIMITED TO DAY TIME ONLY SCHEDULED AROUND PEAK HOUR. ROADWAY MAY BE OPENED TEMPORARILY WITH GRADED CRUSHER RUN ONLY DURING CONSTRUCTION OF THE LANE FOR ONE NIGHT. CLOSURE AND TEMPORAY SURFACE WARNING TO BE IN ACCORDANCE WTH MUTCD.
2. COMPLETE ROUNDABOUT CONSTRUCTION BETWEEN OPENED TRAFFIC LANES. REROUTED TRAFFIC AND LANE SHIFT SIGNS IN PLACE FOR ONE WEEK PRIOR TO BEGINNING WORK IN THE ROUNDABOUT ABOUT AREA BETWEEN TRAVEL LANES.
3. RIGHT TURN ONLY NO THRU TRAFFIC SIGNS IN PLACE ONE WEEK PRIOR TO WORK IN ROUNDABOUT AREA



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MATCHLINE – STA 11+29 – SEE SHEET C9.1

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Paul C. Simonton 10-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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South Main Street Widening
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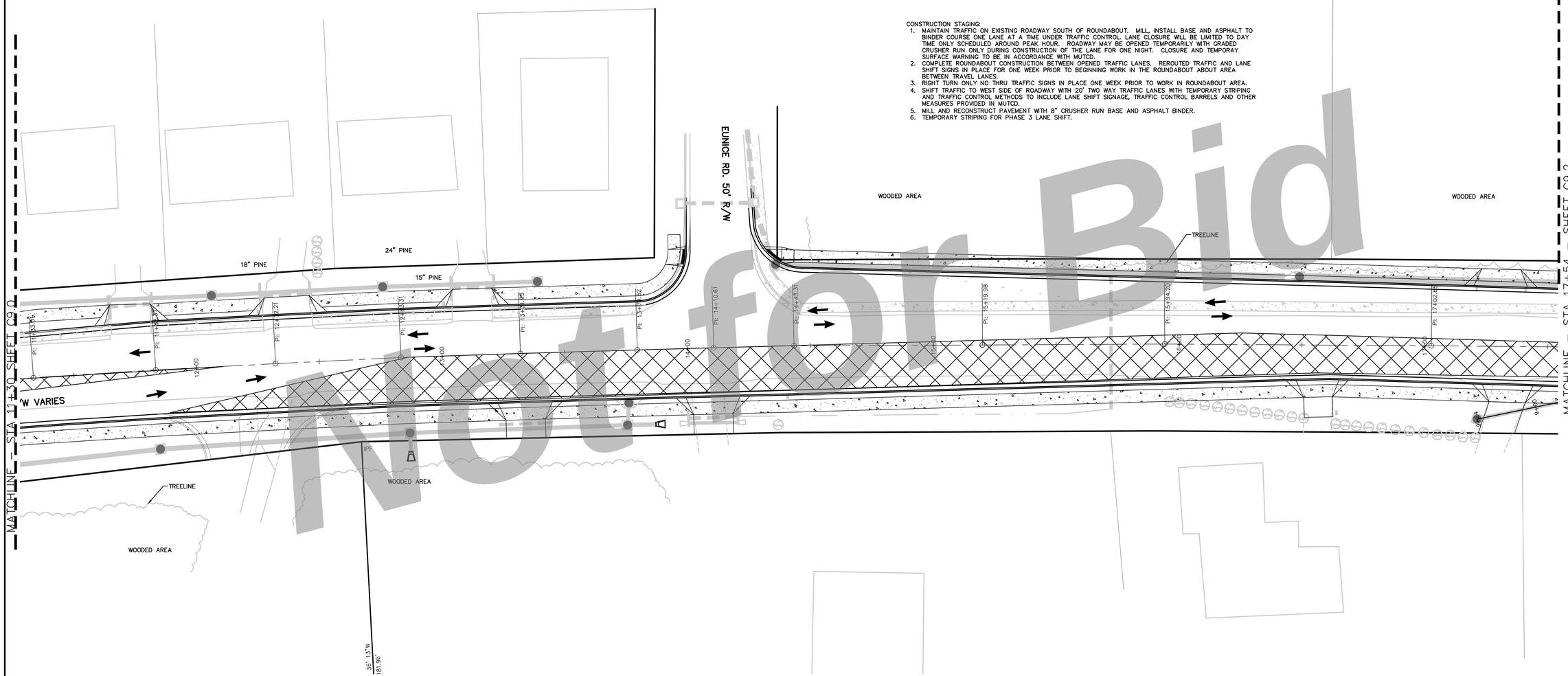
Liberty County, Georgia

Stage 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.9

CONSTRUCTION STAGING:

1. MAINTAIN TRAFFIC ON EXISTING ROADWAY SOUTH OF ROUNDABOUT. MILL, INSTALL BASE AND ASPHALT TO BINDER COURSE ONE LANE AT A TIME UNDER TRAFFIC CONTROL. LANE CLOSURE WILL BE LIMITED TO DAY TIME ONLY SCHEDULED AROUND PEAK HOUR. ROADWAY MAY BE OPENED TEMPORARILY WITH GRADED CRUSHER RUN ONLY DURING CONSTRUCTION OF THE LANE FOR ONE NIGHT. CLOSURE AND TEMPORAY SURFACE WARNING TO BE IN ACCORDANCE WITH MUTCD.
2. COMPLETE ROUNDABOUT CONSTRUCTION BETWEEN OPENED TRAFFIC LANES. REROUTED TRAFFIC AND LANE SHIFT SIGNS IN PLACE FOR ONE WEEK PRIOR TO BEGINNING WORK IN THE ROUNDABOUT ABOUT AREA BETWEEN TRAVEL LANES.
3. RIGHT TURN ONLY NO THRU TRAFFIC SIGNS IN PLACE ONE WEEK PRIOR TO WORK IN ROUNDABOUT AREA.
4. SHIFT TRAFFIC TO WEST SIDE OF ROADWAY WITH 20' TWO WAY TRAFFIC LANES WITH TEMPORARY STRIPING AND TRAFFIC CONTROL METHODS TO INCLUDE LANE SHIFT SIGNAGE, TRAFFIC CONTROL BARRELS AND OTHER MEASURES PROVIDED IN MUTCD.
5. MILL AND RECONSTRUCT PAVEMENT WITH 8" CRUSHER RUN BASE AND ASPHALT BINDER.
6. TEMPORARY STRIPING FOR PHASE 3 LANE SHIFT.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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Paul C. Simonton 8-21-20

Level II Certification No. 935
Expiration Date: 10-01-23

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

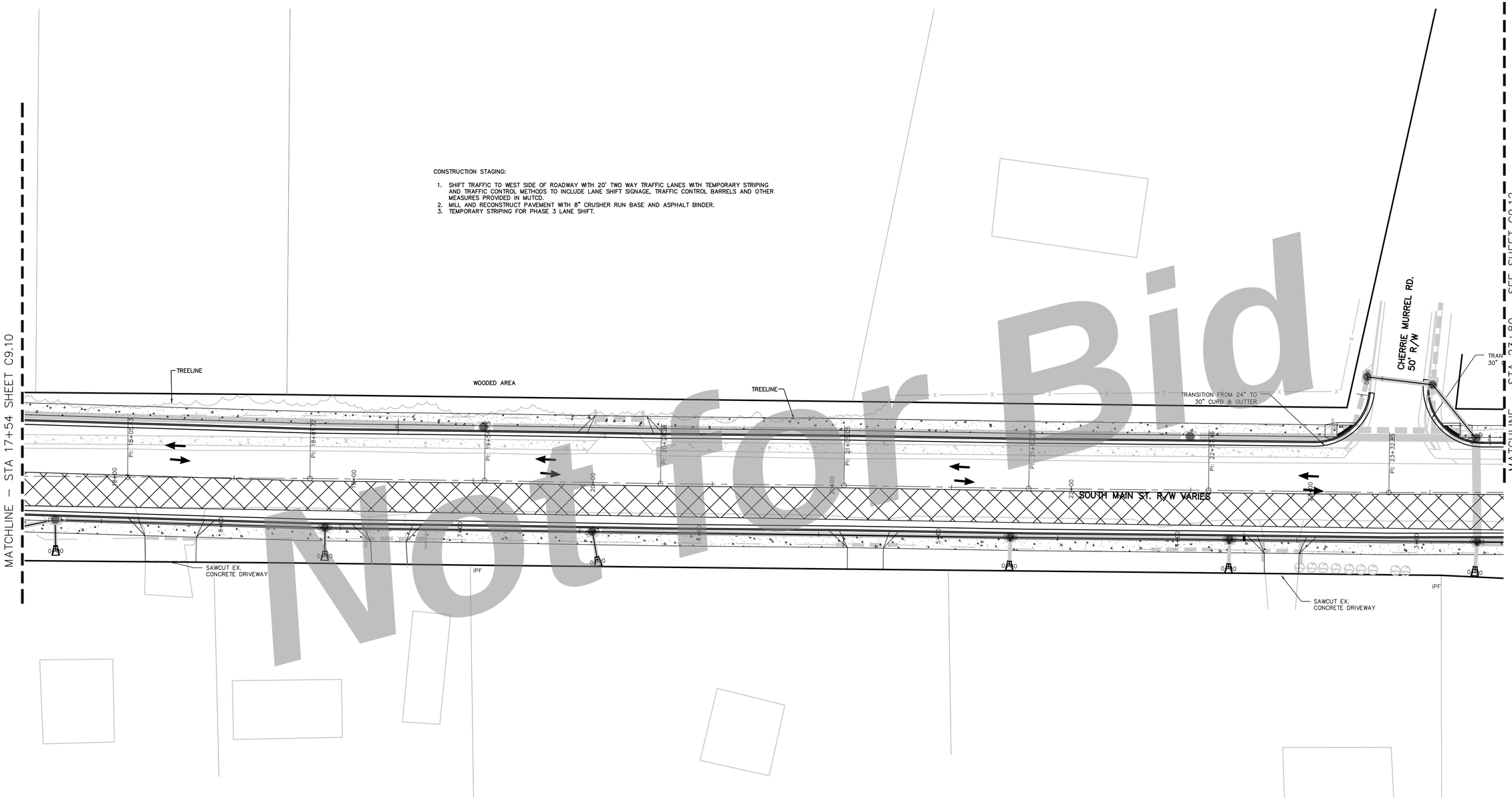
Liberty County, Georgia

Stage 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.10

CONSTRUCTION STAGING:

1. SHIFT TRAFFIC TO WEST SIDE OF ROADWAY WITH 20' TWO WAY TRAFFIC LANES WITH TEMPORARY STRIPING AND TRAFFIC CONTROL METHODS TO INCLUDE LANE SHIFT SIGNAGE, TRAFFIC CONTROL BARRELS AND OTHER MEASURES PROVIDED IN MUTCD.
2. MILL AND RECONSTRUCT PAVEMENT WITH 8" CRUSHER RUN BASE AND ASPHALT BINDER.
3. TEMPORARY STRIPING FOR PHASE 3 LANE SHIFT.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

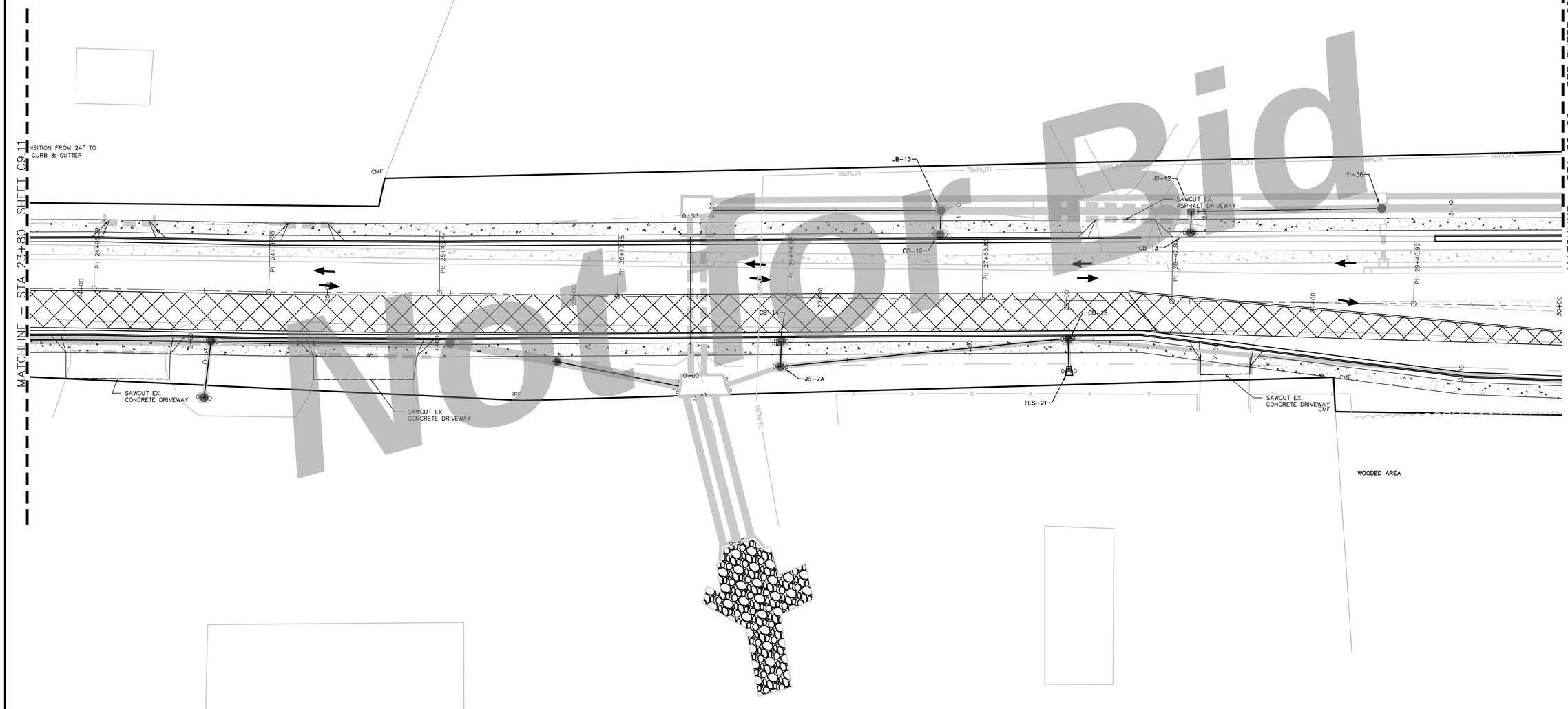
Liberty County, Georgia

Stage 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.11

CONSTRUCTION STAGING:

1. SHIFT TRAFFIC TO WEST SIDE OF ROADWAY WITH 20' TWO WAY TRAFFIC LANES WITH TEMPORARY STRIPING AND TRAFFIC CONTROL METHODS TO INCLUDE LANE SHIFT SIGNAGE, TRAFFIC CONTROL BARRELS AND OTHER MEASURES PROVIDED IN MUTCD.
2. MILL AND RECONSTRUCT PAVEMENT WITH 8" CRUSHER RUN BASE AND ASPHALT BINDER.
3. TEMPORARY STRIPING FOR PHASE 3 LANE SHIFT.



Not For Bid

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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Paul C. Simonton 8-21-23

Level II Certification No. 935
Expiration Date: 10-01-23

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SIMONTON ENGINEERING

South Main Street Widening
for
The City of Hinesville

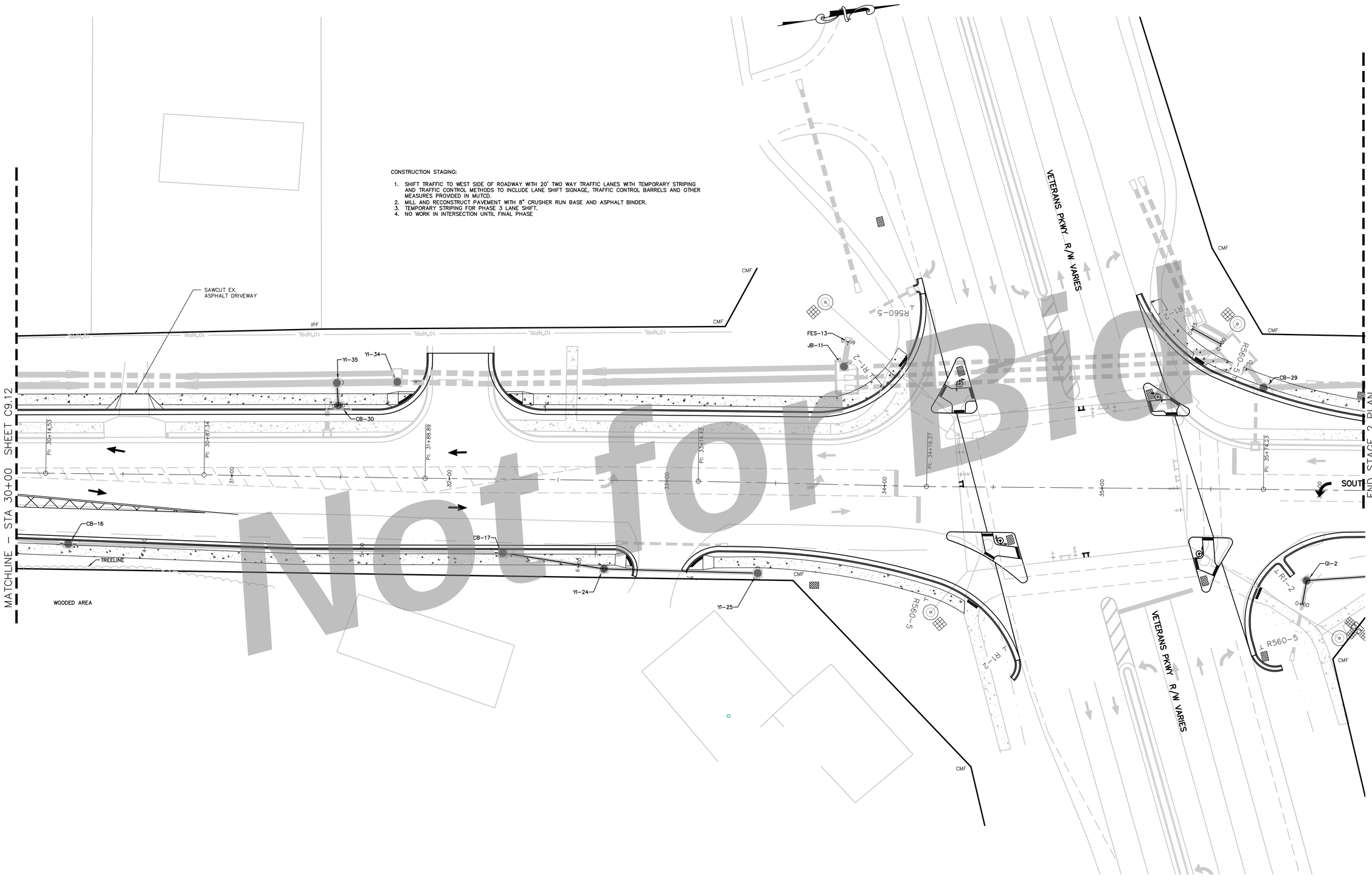
Liberty County, Georgia

Stage 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRI
SHEET: C9.12

CONSTRUCTION STAGING:

1. SHIFT TRAFFIC TO WEST SIDE OF ROADWAY WITH 20' TWO WAY TRAFFIC LANES WITH TEMPORARY STRIPING AND TRAFFIC CONTROL METHODS TO INCLUDE LANE SHIFT SIGNAGE, TRAFFIC CONTROL BARRELS AND OTHER MEASURES PROVIDED IN MUTCD.
2. MILL AND RECONSTRUCT PAVEMENT WITH 8" CRUSHER RUN BASE AND ASPHALT BINDER.
3. TEMPORARY STRIPING FOR PHASE 3 LANE SHIFT.
4. NO WORK IN INTERSECTION UNTIL FINAL PHASE



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Not for Bid

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 15955 PAUL C. SIMONTON
Paul C. Simonton
Aug 21-22

Level II Certification No. 935
Expiration Date: 10-01-23

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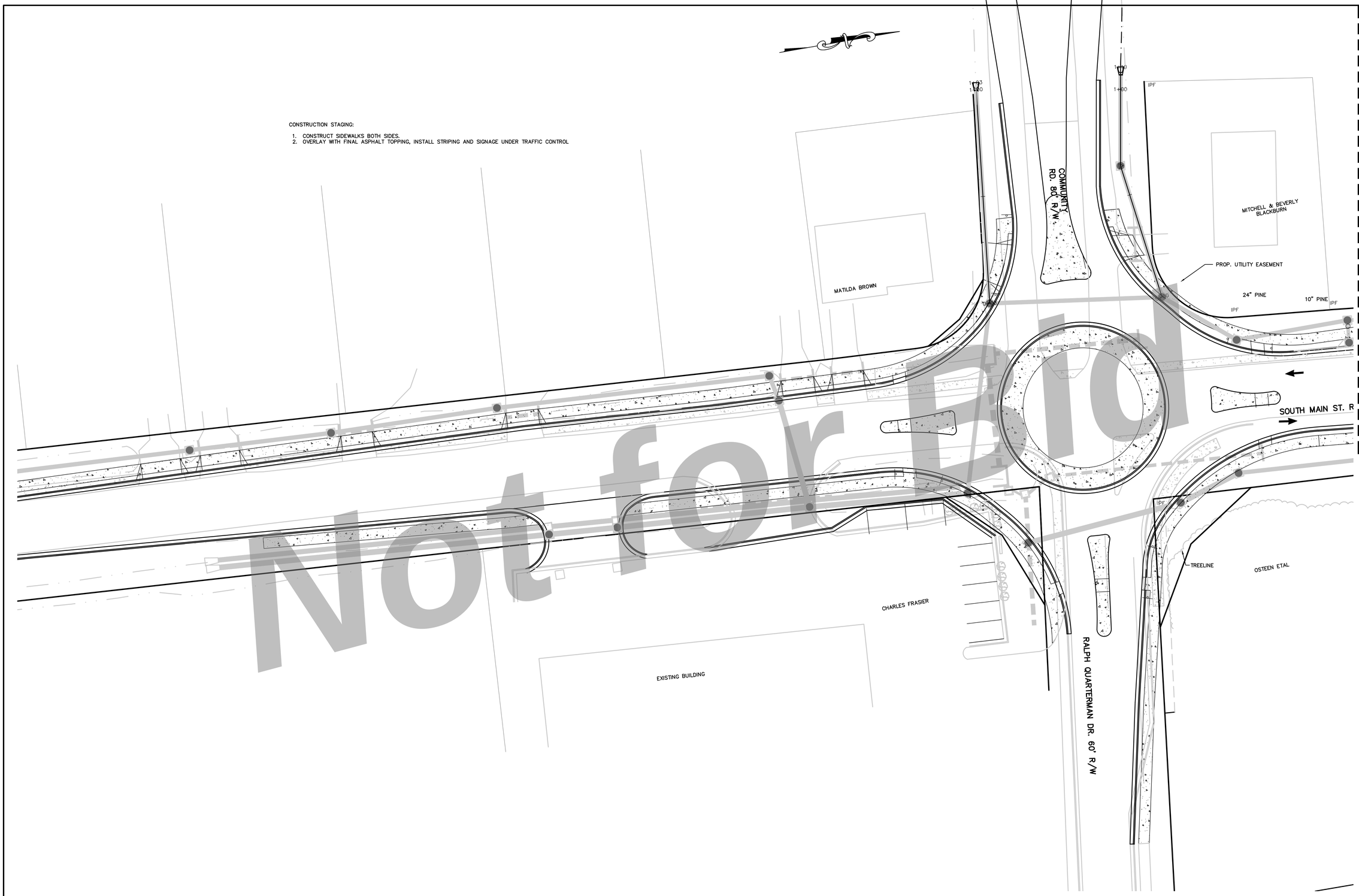
Liberty County, Georgia

Stage 2 Plan

DATE: August 17, 2020
FILE NO: 2010-45PRJ
SHEET: C9.13

CONSTRUCTION STAGING:

1. CONSTRUCT SIDEWALKS BOTH SIDES.
2. OVERLAY WITH FINAL ASPHALT TOPPING, INSTALL STRIPING AND SIGNAGE UNDER TRAFFIC CONTROL



GRAPHIC SCALE

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(IN FEET)
1 inch = 20 ft.

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DATE: August 17, 2020
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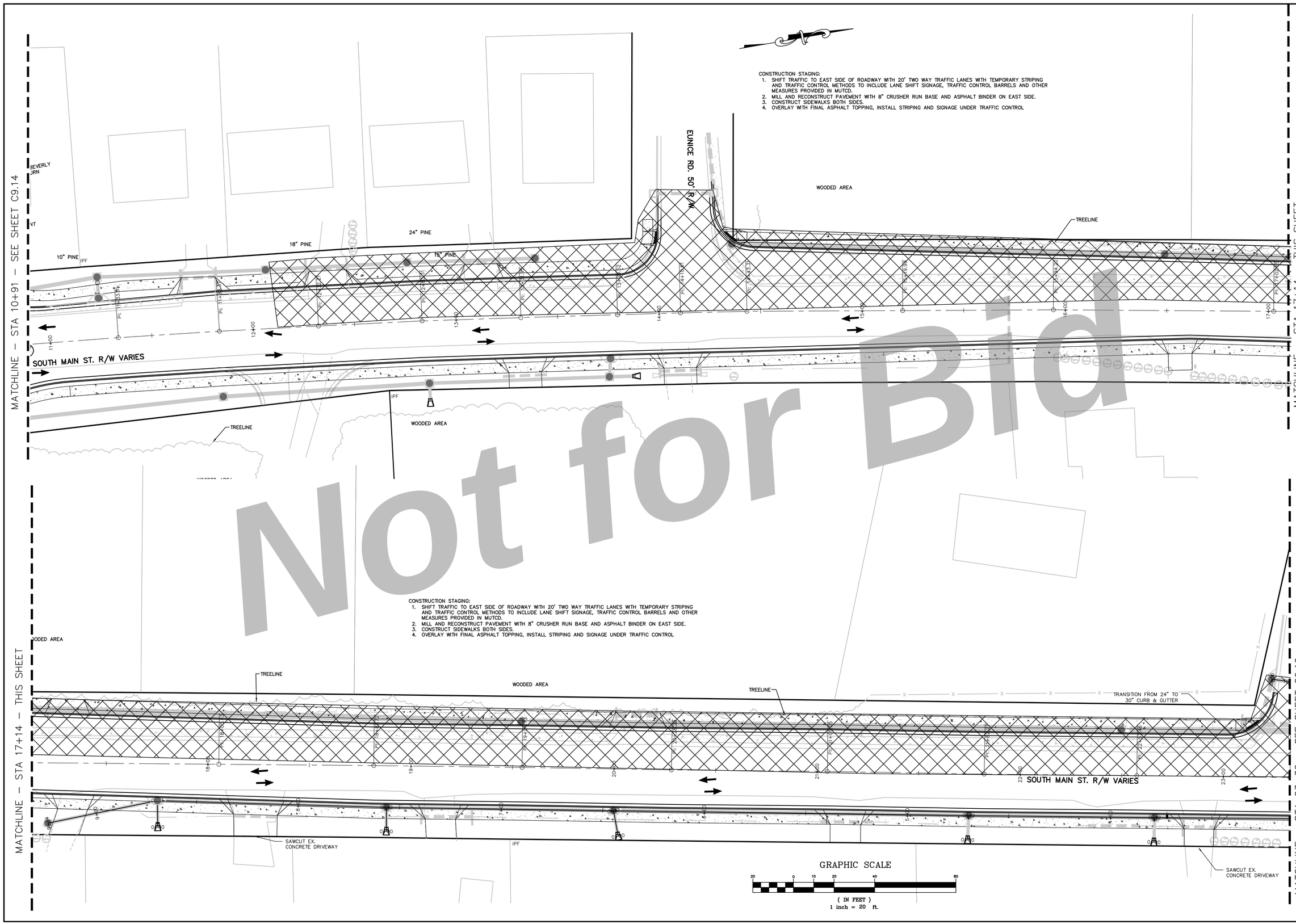

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Paul C. Simonton 8-31-22

Level II Certification No. 935
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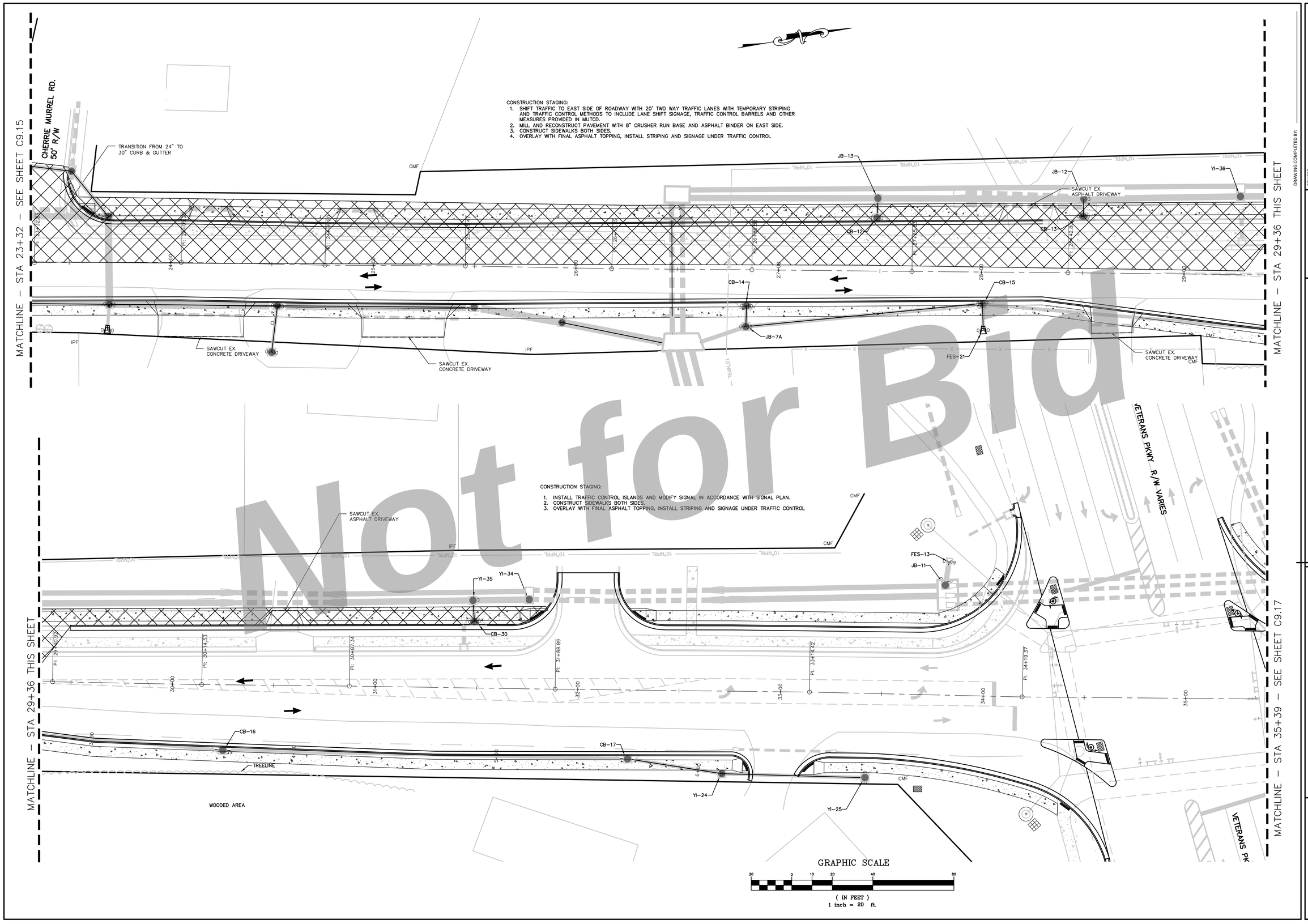

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Paul C. Simonton 8-21-22

Level II Certification No. 935
Expiration Date: 10-01-25

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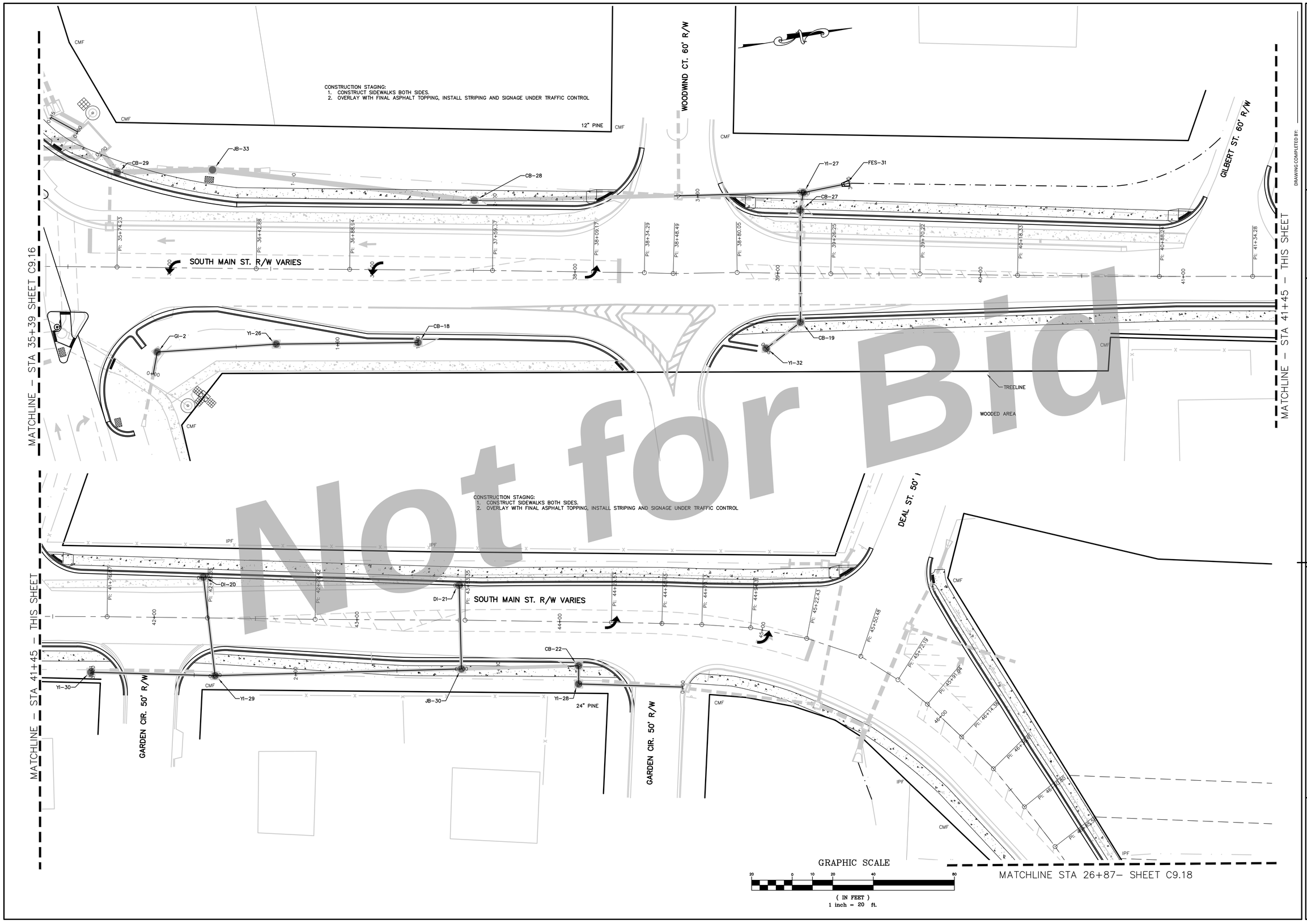

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Paul C. Simonton 8-21-22

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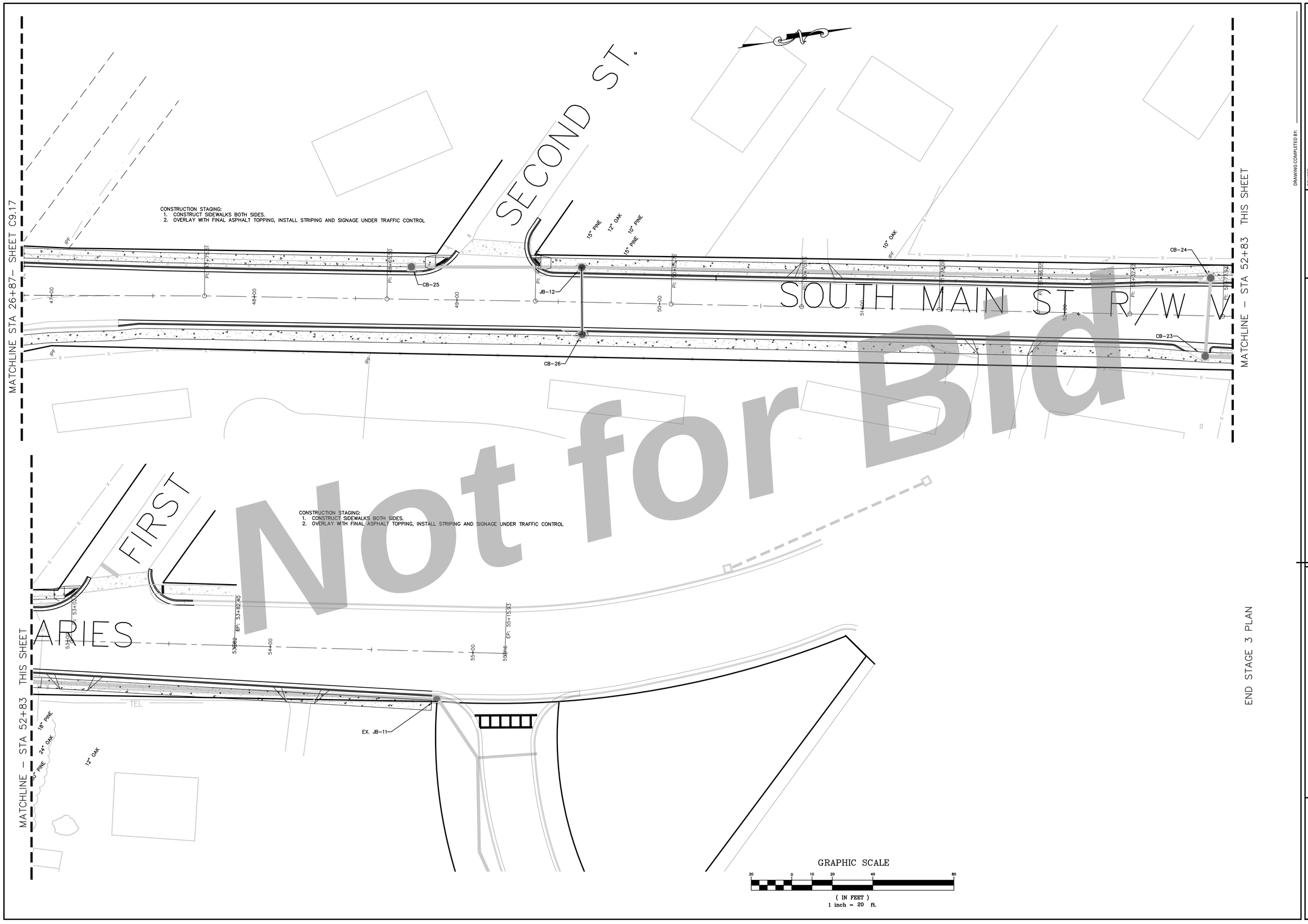

END STAGE 3 PLAN

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 15821 PAUL C. SIMONTON
Paul C. Simonton 9-21-22

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Expiration Date: 10-01-23

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FILE NO: 2010-45PRJ
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