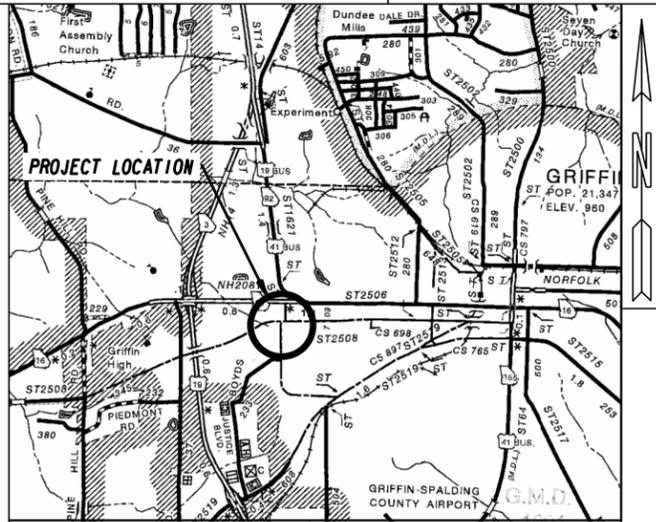


# CITY OF GRIFFIN - PUBLIC WORKS

## PLAN AND PROFILE OF PROPOSED HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

### SPALDING COUNTY

FEDERAL ROUTE \*N/A  
 STATE ROUTE \*N/A  
 Project No. 24-002



LOCATION SKETCH - N.T.S.

#### DESIGN DATA: HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

TRAFFIC A.D.T.: 4,737 (HAMMOND DRIVE) (2025)  
 TRAFFIC A.D.T.: 4,737 (HAMMOND DRIVE) (2045)  
 TRAFFIC A.D.T.: 6,558 (WEST POPLAR STREET) (2025)  
 TRAFFIC A.D.T.: 7,712 (WEST POPLAR STREET) (2045)  
 SPEED DESIGN: 30 MPH (HAMMOND DRIVE)  
 35 MPH (WEST POPLAR STREET)  
 DIRECTIONAL DIST: 50%  
 % 24 HR. TRUCKS: 21%

BEGIN PROJECT  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT  
 STA 102+50  
 N 1180649.0263  
 E 2259532.5119

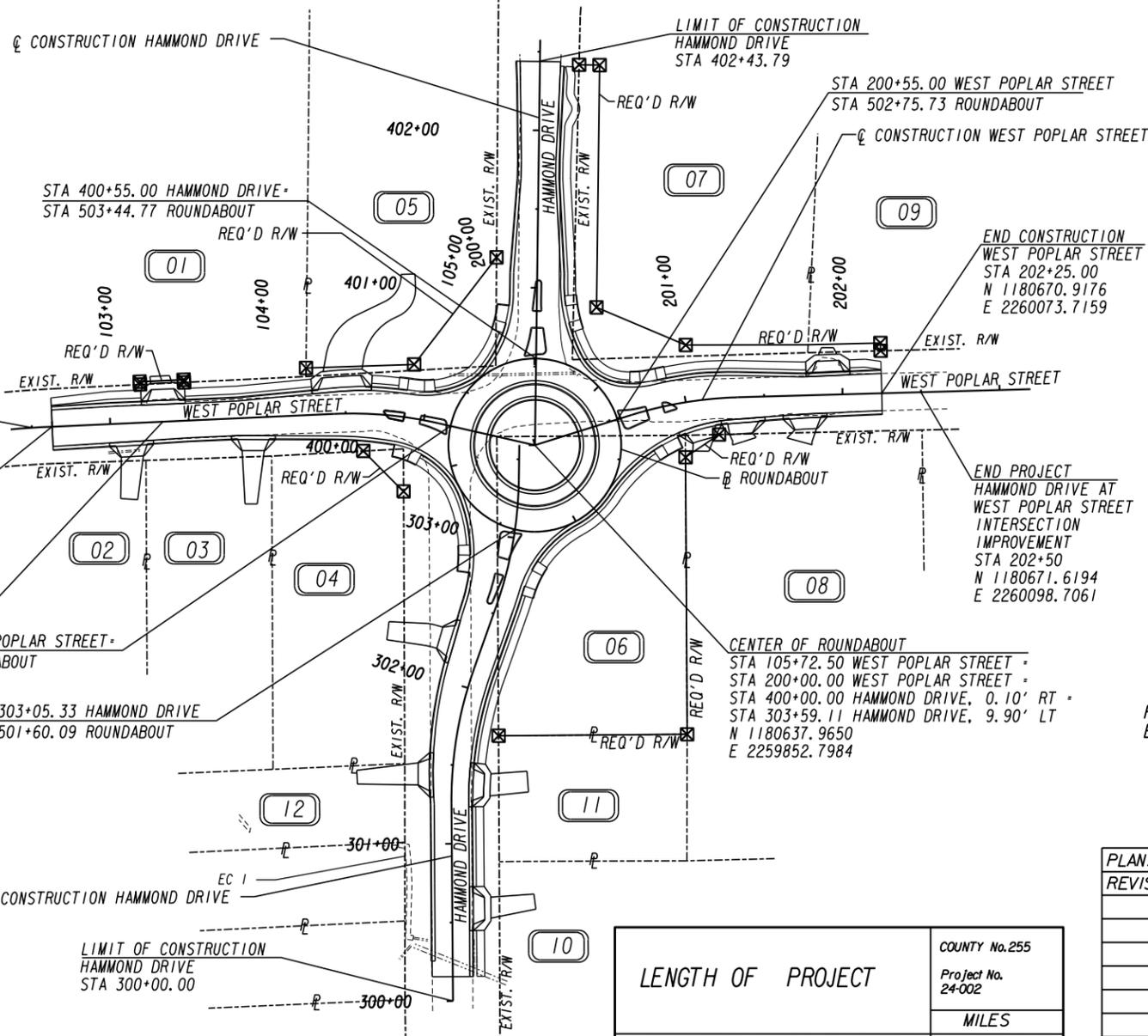
**FUNCTIONAL CLASS**  
 HAMMOND DRIVE: MINOR ARTERIAL  
 WEST POPLAR STREET: MINOR ARTERIAL

THIS PROJECT IS 100% IN SPALDING COUNTY AND IS 100% IN CONG. DIST. NO. 3.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/2011 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

**CENTER OF ROUNDABOUT**  
 STA 105+72.50-STA 200+00.00  
 N 1180637.9650  
 E 2259852.7984  
 LAT. 33.2457°  
 LONG. -84.2868°

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



NOTE:  
 ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT:  
<http://mydocs.dot.ga.gov/Info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx>  
 ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.



Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668

PLANS PREPARED BY:

DESIGN

LENGTH OF PROJECT	COUNTY No. 255
	Project No. 24-002
	MILES
NET LENGTH OF ROADWAY	0.008
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.008
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.008

PLANS COMPLETED	09-19-2023
REVISIONS	



THE DRAWINGS AS LISTED BELOW  
HAVE BEEN SIGNED AND SEALED BY



MATTHEW ALLEN CALAK  
PE No 036071

HEATH & LINEBACK  
2390 CANTON ROAD, BLDG 200  
MARIETTA, GA 30066  
CERTIFICATE OF AUTHORIZATION #:PEF007397  
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:06/30/2024

THE DRAWINGS AS LISTED BELOW  
HAVE BEEN SIGNED AND SEALED BY

ALEX VAZQUEZ  
PE No 18875

HEATH & LINEBACK  
2390 CANTON ROAD, BLDG 200  
MARIETTA, GA 30066  
CERTIFICATE OF AUTHORIZATION #:PEF007397  
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:06/30/2024

DRAWING No.	DRAWING DESCRIPTION
01-0001	COVER SHEET
01-0002	SIGNATURE SHEET
02-0001	INDEX SHEET
03-0001	REVISION SUMMARY DRAWING
04-0001 - 04-0002	GENERAL NOTES
05-0001 - 05-0002	TYPICAL SECTIONS
06-0001 - 06-0002	SUMMARY OF QUANTITIES
13-0001 - 13-0003	MAINLINE PLAN DRAWINGS
15-0001	MAINLINE PROFILE DRAWINGS
16-0001 - 16-0002	CROSSROAD PROFILE DRAWINGS
18-0001 - 18-0003	SPECIAL GRADING DRAWINGS
19-1001 - 19-1002	CONSTRUCTION STAGING PLANS - STAGE 1
19-2001 - 19-2002	CONSTRUCTION STAGING PLANS - STAGE 2
21-0001 - 21-0002	DRAINAGE AREA MAP
22-0001	DRAINAGE PROFILES
23-0001 - 23-0016	CROSS SECTIONS
24-0000 - 24-0002	UTILITY PLANS
26-0001 - 26-0003	SIGNING AND MARKING PLANS AND DETAILS
38-0001	SPECIAL CONSTRUCTION DETAIL - SPECAIL DESIGN SPILLWAY
51-0001 - 51-0004	EROSION, SEDIMENTATION AND POLLUTION CONTROL GENERAL NOTES DRAWING
53-0001 - 53-0002	ESPCP DRAINAGE AREA MAP
54-0001 - 54-0002	BMP LOCATION DETAILS - INITIAL PHASE
54-1001 - 54-1002	BMP LOCATION DETAILS - STAGE 1 INTERMEDIATE PHASE
54-2001 - 54-2002	BMP LOCATION DETAILS - STAGE 2 INTERMEDIATE PHASE
54-3001 - 54-3002	BMP LOCATION DETAILS - STAGE 3 FINAL PHASE
55-0001	WATERSHED MAP/SITE MONITORING LOCATION

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56  
ARE GDOT STANDARDS AND DETAILS AND ARE NOT  
COVERED BY THIS SIGNATURE AND SEAL. DRAWINGS  
IN SECTION 38 CONTAIN GDOT SPECIAL DESIGN DETAILS  
AND ARE NOT COVERED BY THIS SIGNATURE AND SEAL  
UNLESS OTHERWISE LISTED IN THE ABOVE DRAWING LIST.

DRAWING No.	DRAWING DESCRIPTION
44-0001 - 44-0006	WATER & SEWER ADJUSTMENT PLANS

NOTE: EACH SHEET OF THE WATER & SEWER ADJUSTMENT  
PLANS HAS BEEN SIGNED & SEALED INDIVIDUALLY.



Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

SIGNATURE SHEET

HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	01-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	







**SIGNING GENERAL NOTES**

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY, IF SIDEWALK IS PROPOSED OR EXISTING, THE SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE SIDEWALK.
- 4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. WHEN GUARDRAIL IS PRESENT OR BEING PROPOSED, SIGNS SHALL BE POSTED AN UNSTIPULATED DISTANCE BEHIND GUARDRAIL.
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.
18. THE CONTRACTOR SHALL CONTACT GEORGIA LOGOS, LLC 770-447-6399 PRIOR TO REMOVING AND RESETTING LOGO SIGNS. COST FOR REMOVING AND RESETTING LOGO SIGNS SHALL BE INCLUDED IN OVERALL BID PRICE. EXISTING LOGO SIGNS SHALL BE MAINTAINED DURING CONSTRUCTION ON A MOVABLE STRUCTURE. COST FOR MAINTAINING LOGO SIGNS DURING CONSTRUCTION SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR TRAFFIC CONTROL. ANY LOGO SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST.

**UTILITY GENERAL NOTES**

UTILITY OWNER	SERVICE
ATLANTA GAS LIGHT	GAS
AT&T DISTRIBUTION	TELECOMMUNICATIONS
CITY OF GRIFFIN WATER & SEWER	WATER/SEWER
CITY OF GRIFFIN ELECTRIC	ELECTRIC
CITY OF GRIFFIN TELECOM	TELECOMMUNICATIONS
COMCAST	TELECOMMUNICATIONS

NOTES:  
 UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. UTILITY LOCATION WAS PERFORMED BY UTILITY OWNER MARK-UPS. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS. CONTRACTOR/INSTALLER SHALL CONTACT 811 PRIOR TO ANY CONSTRUCTION.



Know what's below.  
 Call before you dig.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

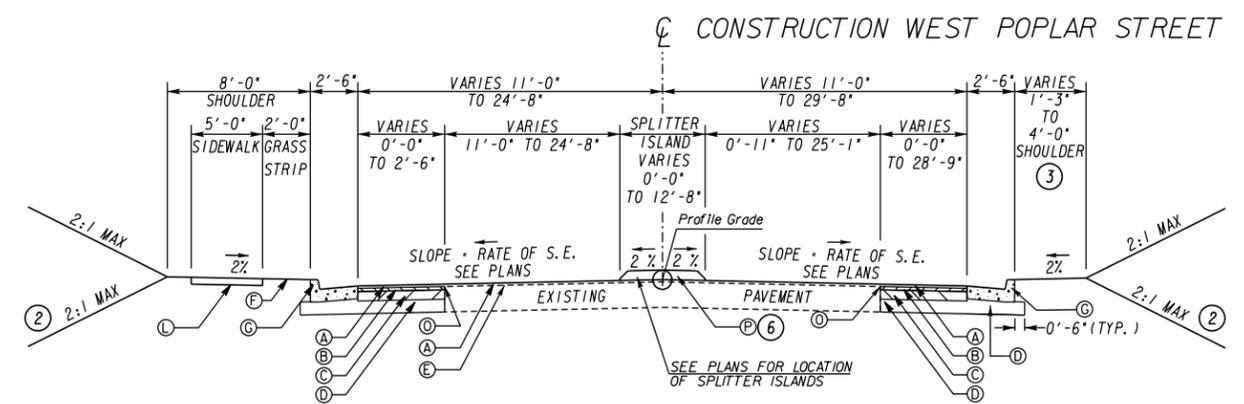
**GENERAL NOTES**

HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT

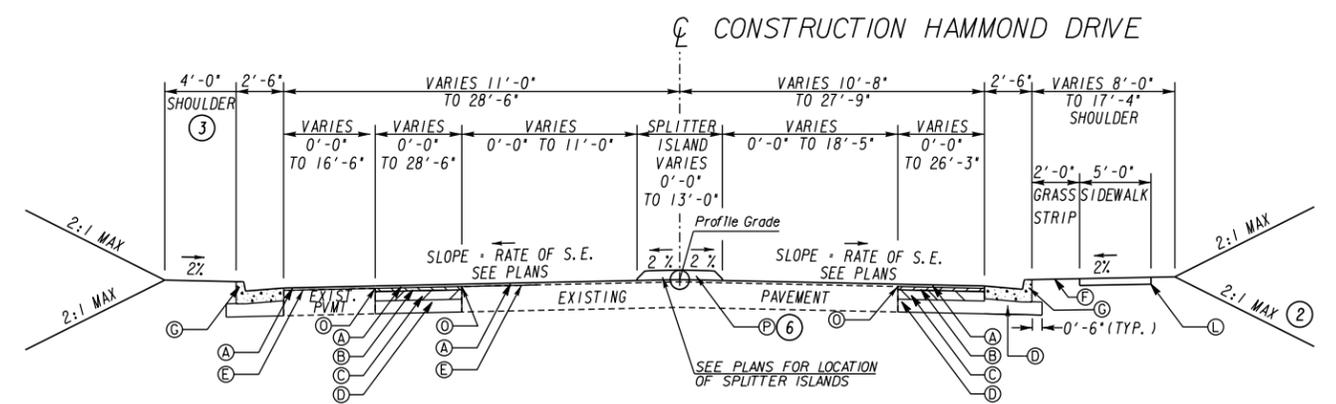
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04-0002

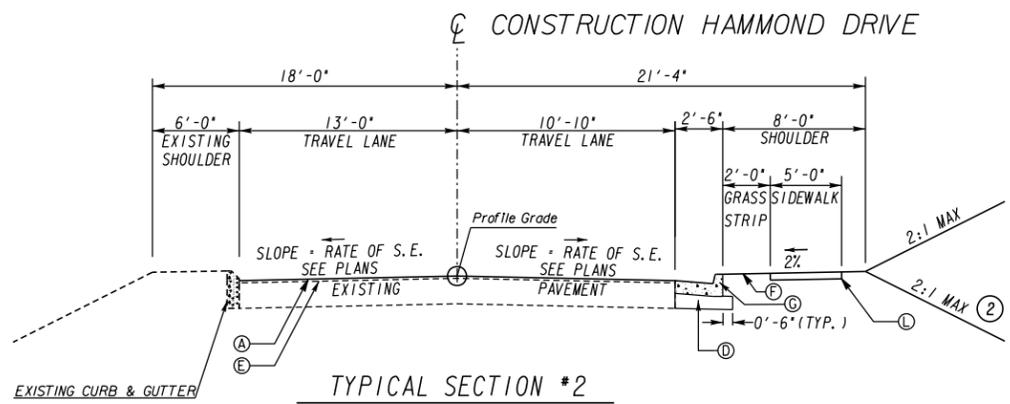
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 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



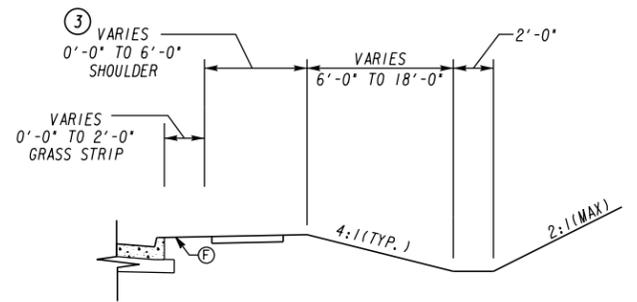
**TYPICAL SECTION #1**  
WEST POPLAR STREET  
OVERLAY & WIDENING SECTION  
STA 102+63.00 TO STA 105+17.50  
STA 200+55.00 TO STA 202+25.00



**TYPICAL SECTION #3**  
HAMMOND DRIVE  
OVERLAY & WIDENING SECTION  
STA 300+25.62 TO STA 303+05.33  
STA 400+55.00 TO STA 402+43.79



**TYPICAL SECTION #2**  
HAMMOND DRIVE  
OVERLAY SECTION  
STA 300+15.59 TO STA 300+25.62

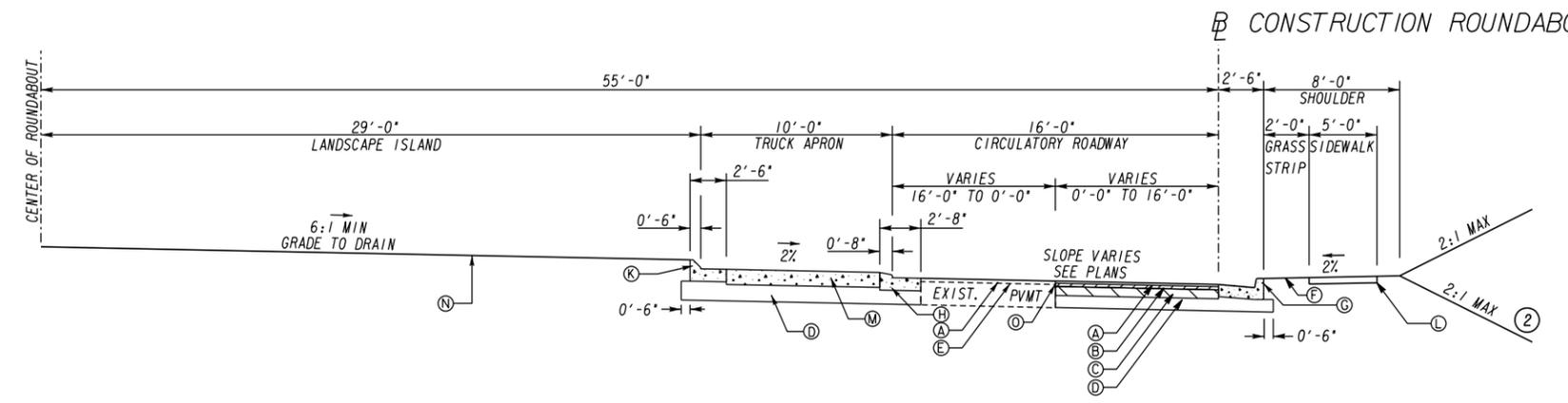


**DITCH DETAIL**  
(RT SHOWN, LT SIMILAR)  
STA 102+63 RT TO STA 103+75 RT  
STA 201+72 LT TO STA 401+57 RT  
STA 300+16 RT TO STA 302+39 RT

- NOTES:**
- SEE CONSTRUCTION PLANS & CROSS SECTIONS FOR CROSS SLOPE TRANSITIONS.
  - SEE CONSTRUCTION PLANS, CROSS SECTIONS, AND DITCH DETAIL FOR LOCATION OF DITCHES.
  - SEE CONSTRUCTION PLANS & CROSS SECTIONS FOR LOCATION OF SIDEWALK.
  - WARP SHOULDER SLOPES TO TIE TO EXISTING SHOULDERS AT CONSTRUCTION LIMITS.
  - CONTRACTOR SHALL MILL VARIABLE DEPTH A MINIMUM OF 50' AT TIE-INS TO ENSURE SMOOTH TRANSITION.
  - SPLITTER ISLANDS MAY BE CONSTRUCTED WITH INTEGRAL CURB, TP 7 (WITHOUT DOWELS) AND CONCRETE MEDIAN 7 1/2 IN (STAMPED WITH COBBLE PATTERN, NO COLOR)

**REQUIRED PAVEMENT**

- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME (165 LBS/SY)
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1OR 2, INCL BITUM MATL & H LIME (220 LBS/SY)
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1OR 2, INCL BITUM MATL & H LIME (330 LBS/SY)
- (D) GR AGGR BASE CRS, INCL MATL (12 INCH)
- (E) RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQUIRED)
- (F) SOD
- (G) CONC CURB & GUTTER, 8 IN X 30 IN, TP 2
- (H) CONC CURB & GUTTER, 8 IN X 32 IN, TP 9
- (K) CONC CURB & GUTTER, 8 IN X 30 IN, TP 1
- (L) CONC SIDEWALK, 4 IN (SEE ROADWAY PLANS FOR LOCATION OF SIDEWALK)
- (M) PLAIN PC CONC PVMT, CL 3 CONC, 10 INCH THK (STAMPED COBBLE PATTERN, FED COLOR #30152)
- (N) CENTRAL ISLAND LANDSCAPE (SEE DETAIL RA-1)
- (O) PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH
- (P) CONC MEDIAN, 7 1/2 IN (WITH TP 7 CURB FACE) (STAMPED WITH COBBLE PATTERN, NO COLOR)



**TYPICAL SECTION #4**  
ROUNDBOUT SECTION  
STA 500+00.00 TO STA 503+45.58

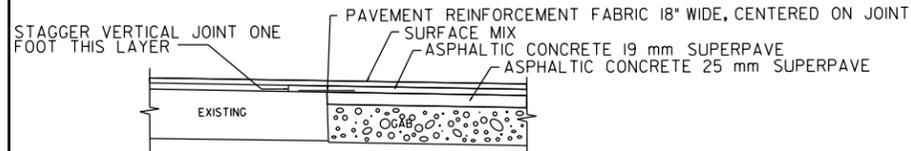
**REVISION DATES**

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>TYPICAL SECTIONS</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	<b>05-0001</b>	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

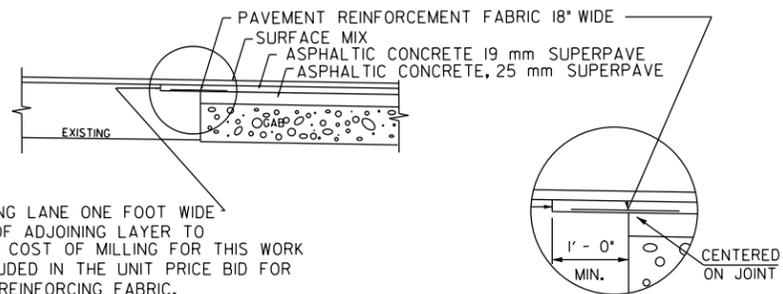
**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

NO SCALE

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE

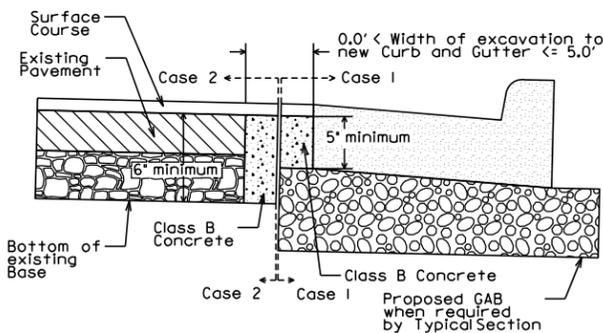


TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



MILL EXISTING LANE ONE FOOT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED. COST OF MILLING FOR THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT REINFORCING FABRIC.

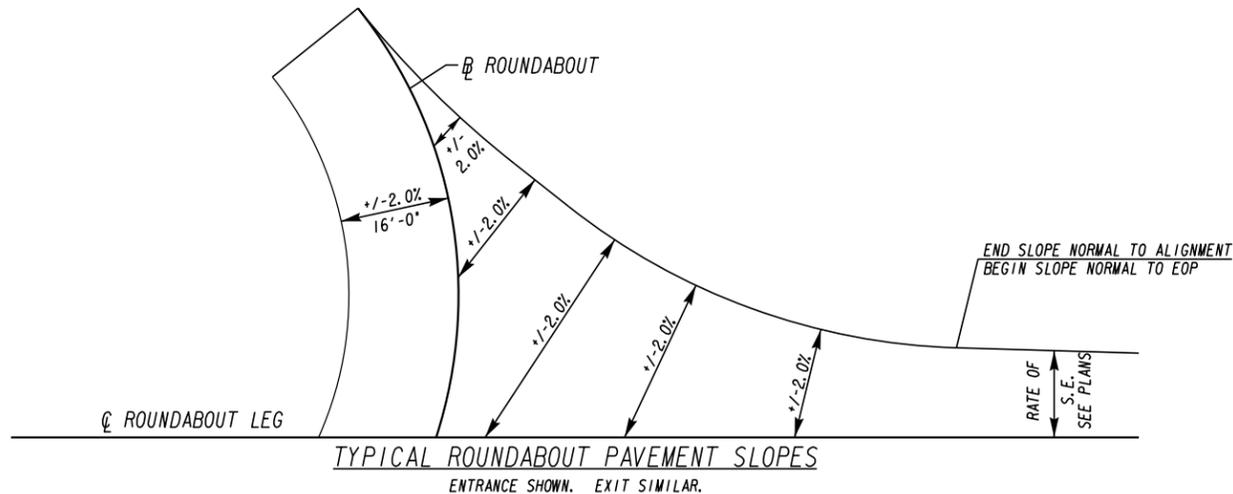
### REINFORCEMENT FABRIC DETAIL



NO SCALE  
CLASS "B" CONCRETE BASE FOR PAVEMENT WIDENING  
Item Code 500-9999 - CY Unit of Measure

Case 1: Where GAB is required under the new Curb and Gutter and the depth of proposed paving between the top of the GAB and the bottom of the surface course is 5 inches or greater, Class B concrete shall be placed in lieu of the paving between the GAB and surface courses specified by the typical section.  
Case 2: Where GAB is not required under the new Curb and Gutter and/or the depth of proposed paving between the top of the Base and the bottom of the surface course is less than 5 inches, Class B concrete shall be placed beneath the proposed surface course to the depth of either the bottom of the existing base course, the bottom of the Base specified by the typical section, or to a depth of 6 inches, whichever is greater.

### CLASS "B" CONCRETE BASE FOR WIDENING DETAIL



### ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

#### A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

#### B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

#### C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

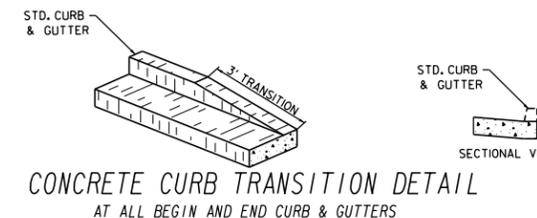
#### D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

- 50% OF TRANSITION INSIDE CURVE - MAXIMUM
- 33% OF TRANSITION INSIDE CURVE - DESIRABLE
- 20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

#### E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION

SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).



CONCRETE CURB TRANSITION DETAIL AT ALL BEGIN AND END CURB & GUTTERS

#### REVISION DATES

#### CITY OF GRIFFIN - PUBLIC WORKS

### TYPICAL SECTIONS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0002
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**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

NO SCALE



# SUMMARY OF QUANTITIES

## DRAINAGE QUANTITIES

STRUCTURE NO.	LOCATION	STATION	OFFSET	STORM DRAIN PIPE (LF)		SIDE DRAIN PIPE (LF)	SIDE DRAIN PIPE (LF)	SAFETY END SECTION SIDE DRAIN GA STD 1122	CATCH BASIN GA STD 1033D & 1034D		DRAIN INLET, 18 IN GA STD 1035	DROP INLET, GP 1 GA STD 1019A	STORM SEWER MANHOLE, TP 1 GA STD 1011A			
				15"	18"				18"	18"				EA	EACH	EACH
				CL III	CL III	H 1-10 (CL III)	H 15-20 (CL IV)	EA	EACH	EACH	EACH					
A-1	HAMMOND DRIVE	400+52.23	28.80' LT	-	6.46	-	-	-	-	-	2	D	-			
A-2	HAMMOND DRIVE	400+43.94	23.13' LT	EXIST	-	-	-	-	-	-	-	-	1			
A-3	HAMMOND DRIVE	400+45.89	25.23' RT	-	43.44	-	-	-	-	-	-	-	1			
A-4	HAMMOND DRIVE	400+72.32	38.77' RT	-	25.91	-	-	-	-	1	-	-	-			
B-1	HAMMOND DRIVE	300+35.37	24.32' LT	-	-	-	-	-	-	-	-	-	-			
B-2	HAMMOND DRIVE	300+32.29	15.75' LT	-	-	EXIST	-	-	1	1034D	2.18	-	-			
B-3	HAMMOND DRIVE	300+22.25	17.54' RT	-	-	EXIST	-	-	1	1034D	1.73	-	-			
B-4	HAMMOND DRIVE	300+11.13	34.32' RT	-	-	EXIST	-	-	-	-	-	-	-			
B-5	HAMMOND DRIVE	300+74.11	15.17' LT	-	38.83	-	-	-	1	1033D	-	-	-			
DW #1	WEST POPLAR STREET	103+13.00	29.00' RT	-	-	-	22.42	2	-	-	-	-	-			
DW #11	HAMMOND DRIVE	301+43.00	34.00' RT	-	-	-	24.42	2	-	-	-	-	-			
DW #12	HAMMOND DRIVE	300+25.00	34.00' RT	-	-	-	39.24	2	-	-	-	-	-			
<b>TOTAL:</b>				<b>0.00</b>	<b>114.64</b>	<b>0.00</b>	<b>63.66</b>	<b>22.42</b>	<b>6</b>	<b>3</b>	<b>-</b>	<b>3.91</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>
<b>ROUNDED TOTAL:</b>				<b>0</b>	<b>120</b>	<b>0</b>	<b>64</b>	<b>23</b>	<b>6</b>	<b>3</b>	<b>-</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>

## RIP RAP QUANTITIES

STN DUMPED RIP RAP, TP 3, 18 IN		
STA	SIDE	AREA (SY)
102+89	RT	6
401+26	RT	4
201+65	LT	4
302+36	RT	4
300+95	RT	4
502+08	RT	11
300+32	LT	15
300+26	RT	10
302+54	RT	9
<b>TOTAL:</b>		<b>67</b>
PLASTIC FILTER FABRIC		
<b>TOTAL:</b>		<b>67</b>

## CONC SPILLWAY, SPCL DES

STA	SIDE	EA
102+89	RT	1
401+26	RT	1
201+65	LT	1
502+08	RT	1
302+36	RT	1
300+95	RT	1
<b>TOTAL:</b>		<b>6</b>

## OUTLET STRUCTURE, RETAINING WALL

CLASS B CONCRETE, RETAINING WALL		
STA	SIDE	CY
302+57	RT	4.8
<b>TOTAL:</b>		<b>5</b>

## PAVEMENT MARKING

ITEM	UNIT	QUANTITY
THERMOPLASTIC PVMT MARKING, WORD, TP 15	EA	4
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	2058
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1446
THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	675
THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	117
THERMOPLASTIC TRAF STRIPING, YELLOW	SY	115
RAISED PVMT MARKERS TP 1	EA	46

## SIGN SCHEDULE

ROAD NAME	STATION	SIGN CODE	SIZE		TP1/TP9 (SF)	TP1/TP11 (SF)	GALVANIZED STEEL POSTS, TYPE 7			GALVANIZED STEEL POSTS, TYPE 9		
			WIDTH (IN)	HEIGHT (IN)			LENGTH (LF)	NUMBER OF POSTS	TOTAL POST PER SIGN (LF)	LENGTH (LF)	NUMBER OF POSTS	TOTAL POST PER SIGN (LF)
WEST POPLAR STREET	103+50	W2-6	36	36	-	9.00	-	-	-	15.74	1	15.74
		W13-1P	18	18	-	2.25	-	-	-	15.24	1	15.24
WEST POPLAR STREET	104+79	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
WEST POPLAR STREET	104+85	R4-7	24	30	-	5.00	12.50	1	12.50	-	-	-
		OM3-L	12	36	-	3.00	-	-	-	-	-	-
WEST POPLAR STREET	105+03	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
WEST POPLAR STREET	105+11	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
WEST POPLAR STREET	105+12	D1-1D	42	18	5.25	-	11.50	1	11.50	-	-	-
WEST POPLAR STREET	105+14	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
WEST POPLAR STREET	105+47	R6-4	30	24	5.00	-	9.00	1	9.00	-	-	-
WEST POPLAR STREET	105+52	R6-4	30	24	5.00	-	9.00	1	9.00	-	-	-
WEST POPLAR STREET	200+02	R6-4	30	24	5.00	-	9.00	1	9.00	-	-	-
WEST POPLAR STREET	200+23	R6-4	30	24	5.00	-	9.00	1	9.00	-	-	-
WEST POPLAR STREET	200+59	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
WEST POPLAR STREET	200+60	D1-1D	42	18	5.25	-	11.50	1	11.50	-	-	-
WEST POPLAR STREET	200+63	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
WEST POPLAR STREET	200+73	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
WEST POPLAR STREET	200+93	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
WEST POPLAR STREET	200+86	R4-7	24	30	-	5.00	12.50	1	12.50	-	-	-
		OM3-L	12	36	-	3.00	-	-	-	-	-	-
WEST POPLAR STREET	201+59	W2-6	36	36	-	9.00	-	-	-	15.74	1	15.74
		W13-1P	18	18	-	2.25	-	-	-	-	-	-
HAMMOND DRIVE	301+75	W2-6	36	36	-	9.00	-	-	-	15.74	1	15.74
		W13-1P	18	18	-	2.25	-	-	-	-	-	-
HAMMOND DRIVE	302+65	R4-7	24	30	-	5.00	12.50	1	12.50	-	-	-
		OM3-L	12	36	-	3.00	-	-	-	-	-	-
HAMMOND DRIVE	302+65	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
HAMMOND DRIVE	302+91	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
HAMMOND DRIVE	303+00	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
HAMMOND DRIVE	303+00	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
HAMMOND DRIVE	303+00	D1-1D	48	18	6.00	-	11.50	2	23.00	-	-	-
HAMMOND DRIVE	400+58	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
HAMMOND DRIVE	400+58	R1-2	36	36	-	3.90	10.22	1	10.22	-	-	-
HAMMOND DRIVE	400+60	D1-1D	48	18	6.00	-	11.50	2	23.00	-	-	-
HAMMOND DRIVE	400+72	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
HAMMOND DRIVE	400+92	W11-2	36	36	-	9.00	-	-	-	15.24	1	15.24
		W16-7P	24	12	-	2.00	-	-	-	-	-	-
HAMMOND DRIVE	400+94	R4-7	24	30	-	5.00	12.50	1	12.50	-	-	-
		OM3-L	12	36	-	3.00	-	-	-	-	-	-
HAMMOND DRIVE	401+58	W2-6	36	36	-	9.00	-	-	-	15.74	1	15.74
		W13-1P	18	18	-	2.25	-	-	-	-	-	-
<b>TOTALS:</b>			<b>42.50</b>	<b>196.20</b>	<b>-</b>	<b>-</b>	<b>236.73</b>	<b>-</b>	<b>-</b>	<b>184.91</b>	<b>-</b>	<b>-</b>
<b>ROUNDED TOTALS:</b>			<b>43</b>	<b>197</b>	<b>-</b>	<b>-</b>	<b>237</b>	<b>-</b>	<b>-</b>	<b>185</b>	<b>-</b>	<b>-</b>

## REVISION DATES

NO.	DATE	DESCRIPTION

## CITY OF GRIFFIN - PUBLIC WORKS

# SUMMARY QUANTITIES

## HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



**Curve\* 1**  
 PI Sta= 101+38.48  
 N= 1180643.9910  
 E= 2259417.5088  
 DELTA= 23°33'18.18" (RT)  
 D= 9°23'33.90"  
 T= 127.19  
 L= 250.78  
 R= 610.00  
 E= 13.12  
 D.S.= 35 MPH

**Curve\* 2**  
 PI Sta= 104+76.40  
 N= 1180659.2837  
 E= 2259758.6809  
 DELTA= 15°19'45.3" (RT)  
 D= 22°55'05.92"  
 T= 33.64  
 L= 66.89  
 R= 250.00  
 E= 2.25  
 D.S.= 30 MPH

**Curve\* 3**  
 PI Sta= 200+99.21  
 N= 1180667.3743  
 E= 2259947.5489  
 DELTA= 15°38'05.8" (RT)  
 D= 22°55'05.92"  
 T= 34.32  
 L= 68.22  
 R= 250.00  
 E= 2.35  
 D.S.= 30 MPH

**Curve\* 5**  
 PI Sta= 302+96.10  
 N= 1180574.3290  
 E= 2259842.0741  
 DELTA= 18°52'52.4" (LT)  
 D= 22°55'05.92"  
 T= 41.57  
 L= 82.38  
 R= 250.00  
 E= 3.43  
 D.S.= 30 MPH

**Curve\* 6 Start (ROUNDAOUT)**  
 PC Sta 500+00.00  
 N= 1180692.9650  
 E= 2259852.7984  
 DELTA= 360°00'00.0" (LT)  
 L= 345.58  
 R= 55.00

**STATION EQUALITY AT ROUNDABOUT LEGS**

#1	STA 105+17.50 WEST POPLAR STREET - STA 500+74.14 ROUNDABOUT
#2	STA 200+55.00 WEST POPLAR STREET - STA 502+75.73 ROUNDABOUT
#3	STA 303+05.33 HAMMOND DRIVE - STA 501+60.09 ROUNDABOUT
#4	STA 400+55.00 HAMMOND DRIVE - STA 503+44.77 ROUNDABOUT

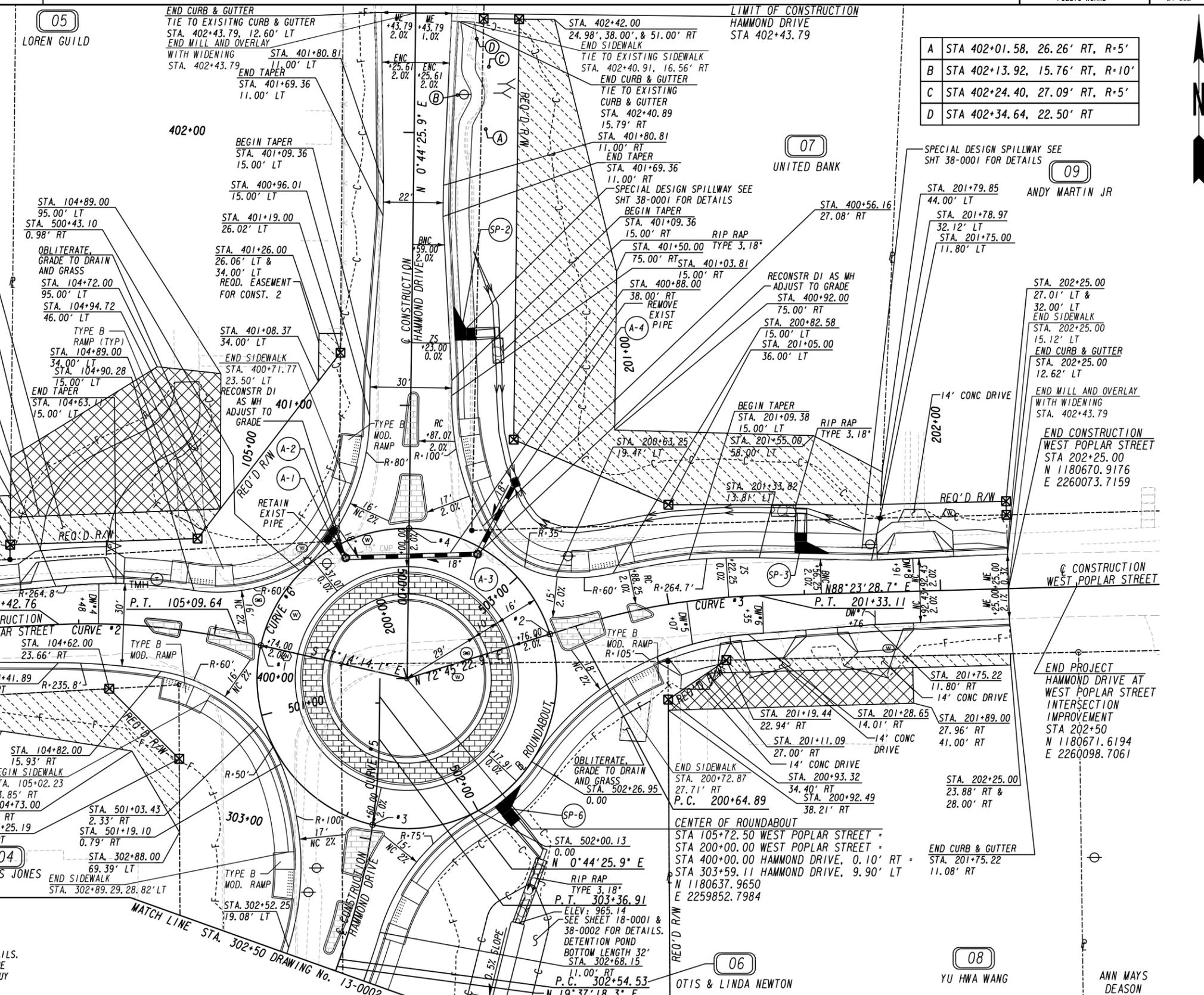
**LEGEND**

OBLITERATE, GRADE TO DRAIN AND GRASS

NOTE:  
 1. SEE SHEET 13-0003 FOR SPLITTER ISLAND DETAILS.  
 2. PROPOSED SIDEWALK SHALL AVOID IMPACT TO THE EXISTING POWER POLE AT STA 402+14.12 RT. GUY WIRES ARE TO BE RESET AS NEEDED.

**PROPERTY AND EXISTING R/W LINE**  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

**BEGIN LIMIT OF ACCESS.....BLA**  
**END LIMIT OF ACCESS.....ELA**  
**REQ'D LIMIT OF ACCESS**  
**REQ'D LIMIT OF ACCESS & R/W**  
**ORANGE BARRIER FENCE**  
**ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)**



A	STA 402+01.58, 26.26' RT, R=5'
B	STA 402+13.92, 15.76' RT, R=10'
C	STA 402+24.40, 27.09' RT, R=5'
D	STA 402+34.64, 22.50' RT

SPECIAL DESIGN SPILLWAY SEE SHT 38-0001 FOR DETAILS

ANDY MARTIN JR

STA. 201+79.85  
 44.00' LT  
 STA. 201+78.97  
 32.12' LT  
 STA. 201+75.00  
 11.80' LT

END MILL AND OVERLAY WITH WIDENING STA. 402+43.79

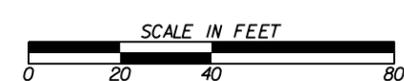
END CONSTRUCTION WEST POPLAR STREET STA 202+25.00 N 1180670.9176 E 2260073.7159

END PROJECT HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT STA 202+50 N 1180671.6194 E 2260098.7061

END CURB & GUTTER STA. 201+75.22 11.08' RT

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CONSTRUCTION PLAN</b>	
		<b>HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT</b>	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	<b>13-0001</b>	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

**Heath & Lineback**  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



Curve\* 4  
 PI Sta 301+69.75  
 N= 1180454.4678  
 E= 2259799.3422  
 DELTA= 20°02'58.9" (RT)  
 D= 22°55'05.92"  
 T= 44.19  
 L= 87.48  
 R= 250.00  
 E= 3.88  
 D.S. = 30 MPH

03  
 SOUKIM OUTHAVONG

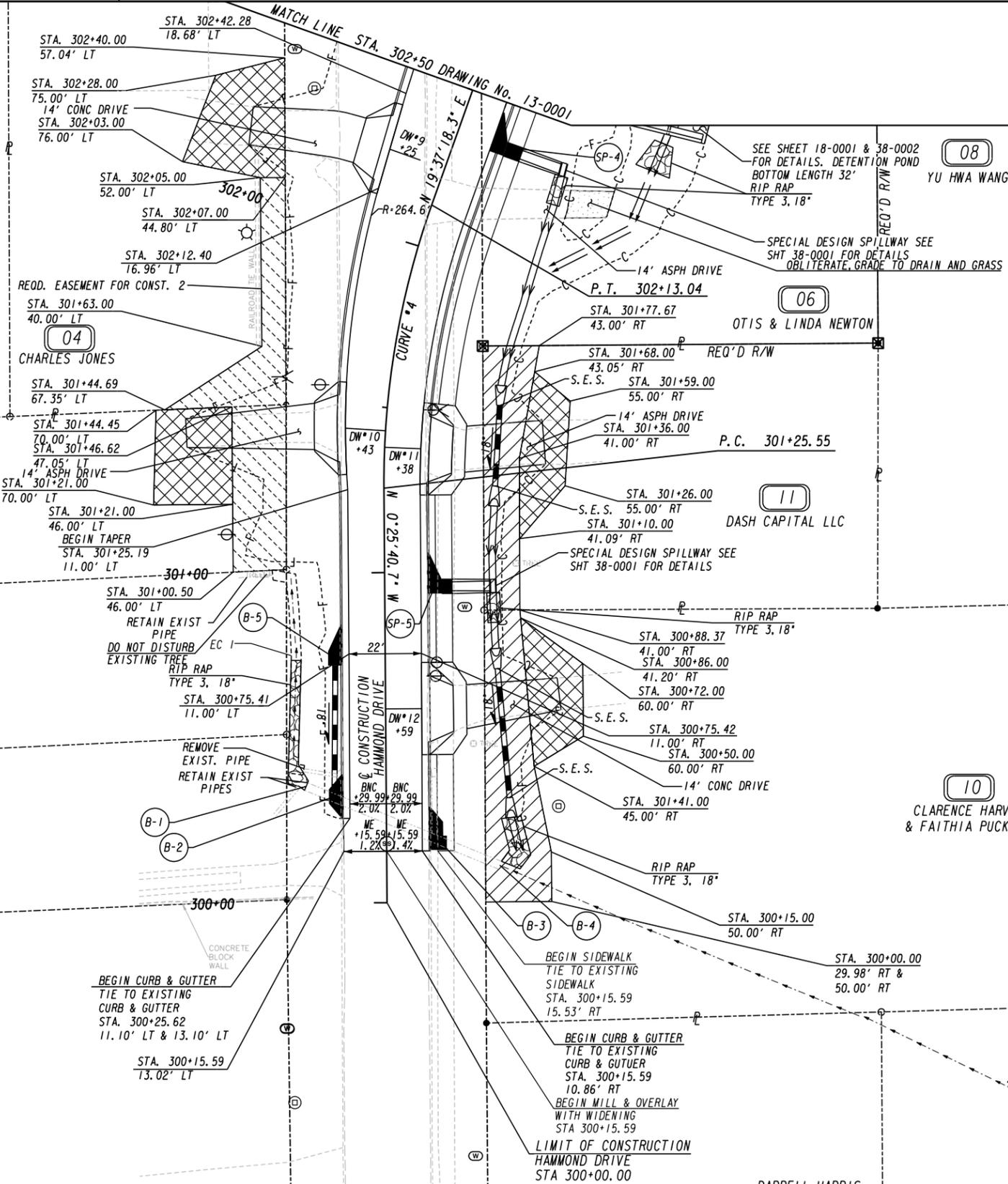
02  
 STEPHANIE VILLIER

12  
 THOMAS M DANIEL & MALINDA C JENKINS

THOMAS M DANIEL & MALINDA C JENKINS

THOMAS M DANIEL & MALINDA C JENKINS

CHARLES F III & KAREN SMITH



08  
 YU HWA WANG

06  
 OTIS & LINDA NEWTON

11  
 DASH CAPITAL LLC

10  
 CLARENCE HARVEY & FAITHIA PUCKETT

DARRELL HARRIS

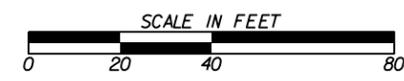


LEGEND  
 OBLITERATE, GRADE TO DRAIN AND GRASS

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

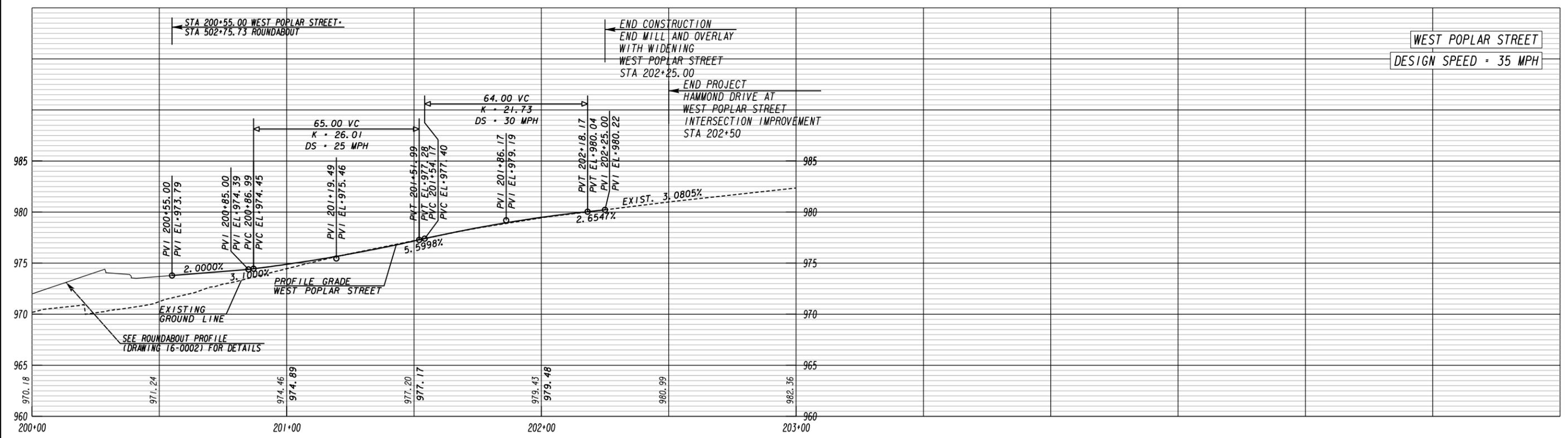
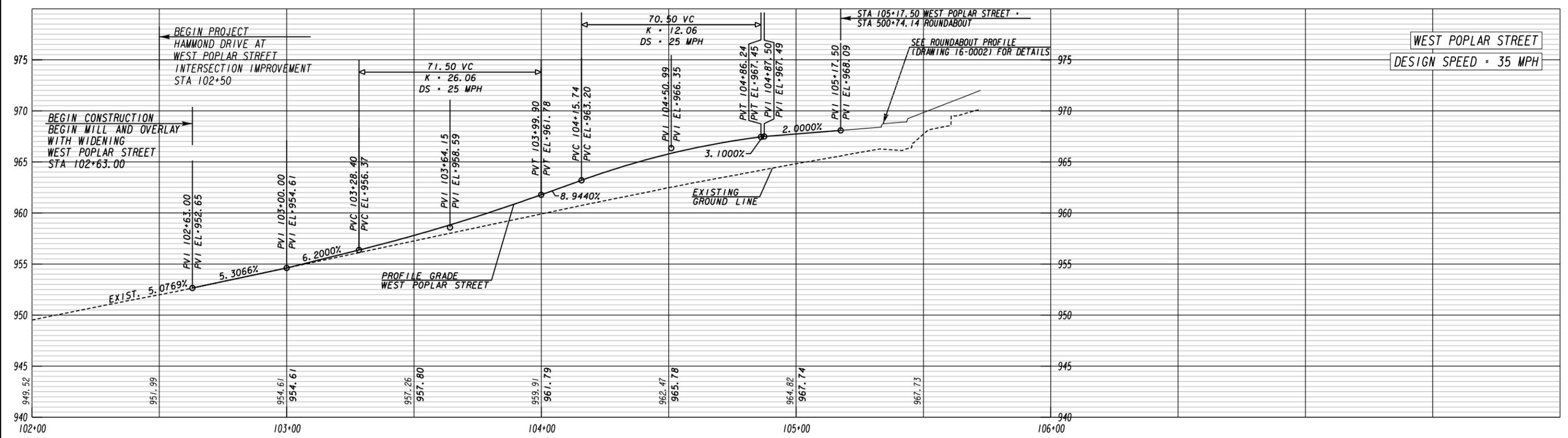
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

**H&L**  
 Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



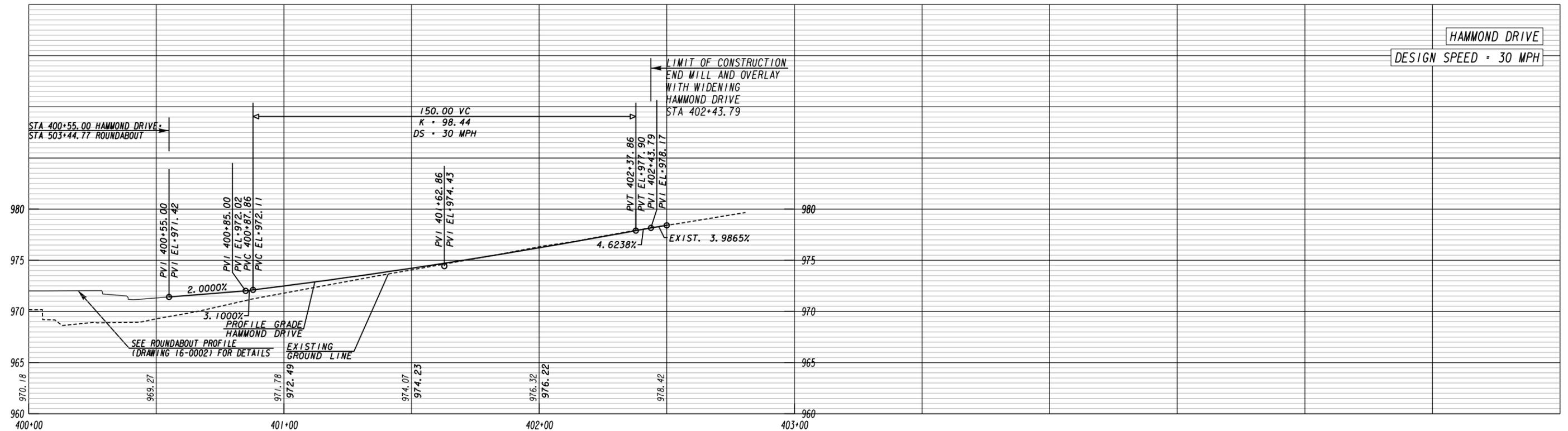
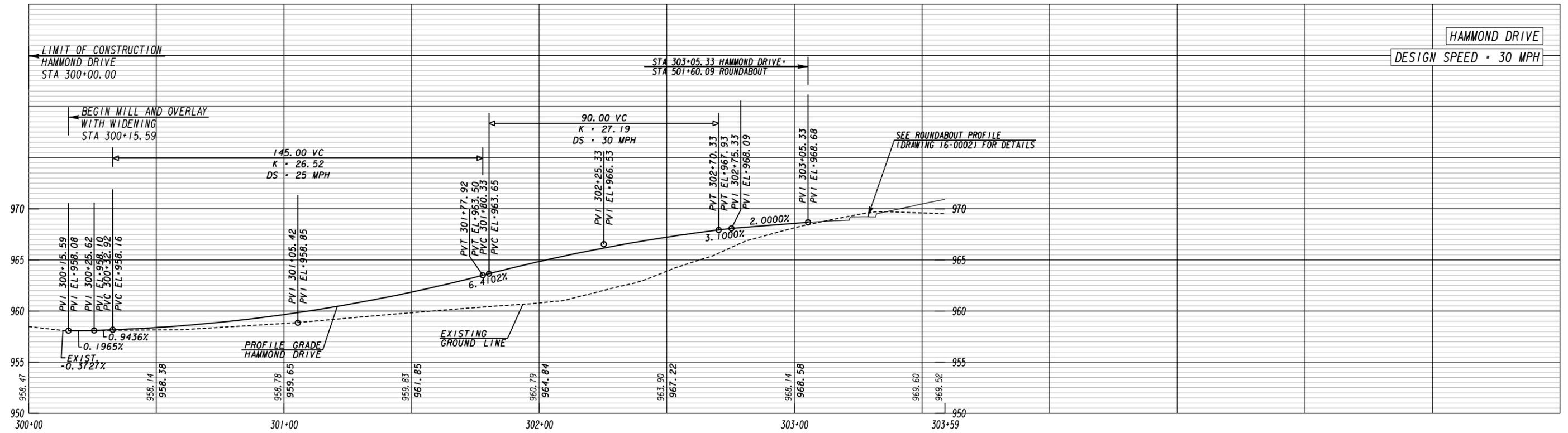
REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CONSTRUCTION PLAN</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	13-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





SCALE:  
1 INCH = 5 FEET VERT.  
1 INCH = 20 FEET HORIZ.

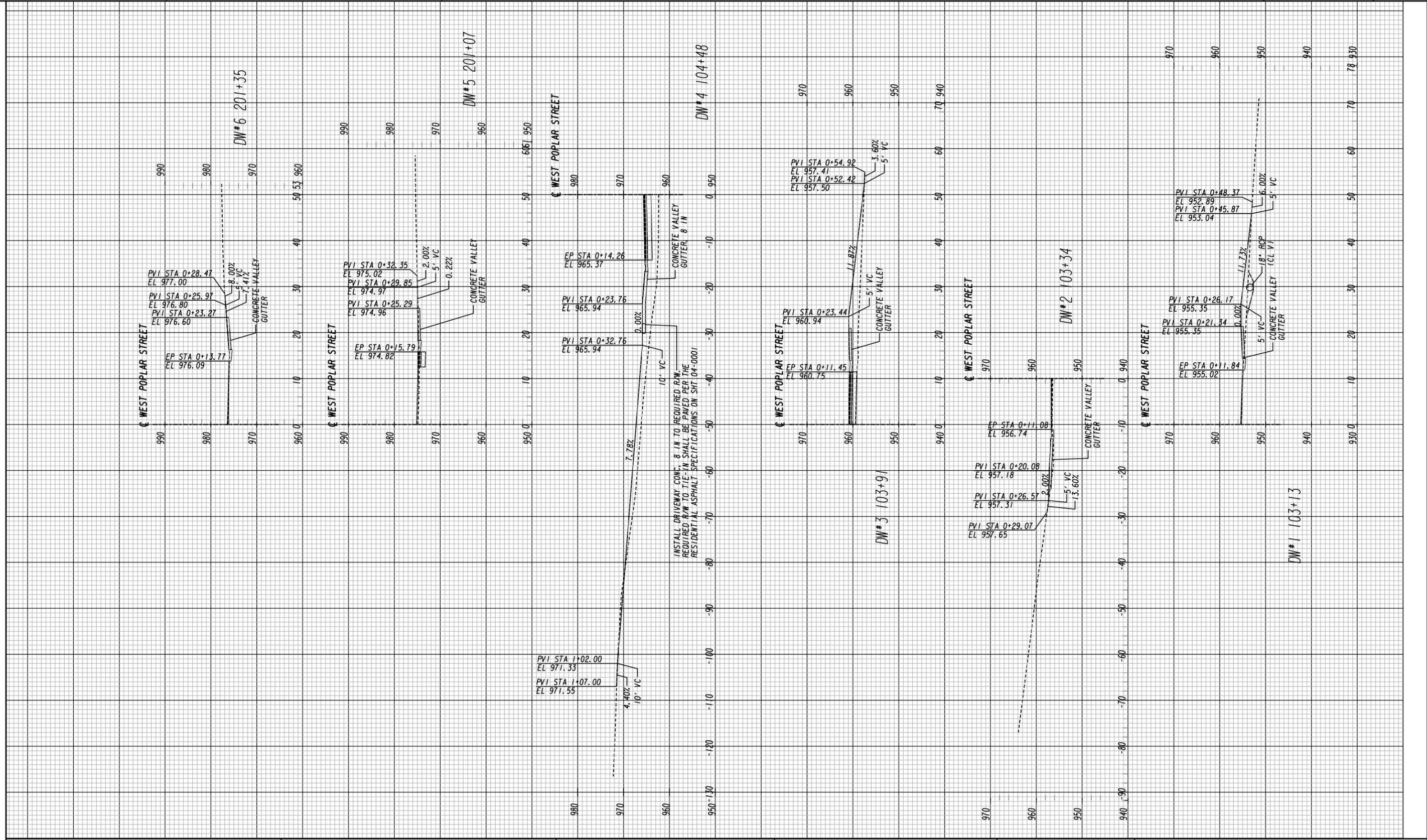
REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>MAINLINE PROFILE</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
		CHECKED:	DATE:
		BACKCHECKED:	DATE:
		CORRECTED:	DATE:
		VERIFIED:	DATE:
DRAWING No.			15-0001



SCALE:  
1 INCH = 5 FEET VERT.  
1 INCH = 20 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSSROAD PROFILE</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET	
		INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	<b>16-0001</b>	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		DRIVEWAY PROFILES	
		HAMMOND DRIVE AT WEST POPLAR STREET	
		INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	17-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





LIMIT OF CONSTRUCTION  
HAMMOND DRIVE  
STA 402+43.79

BEGIN PROJECT  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT  
STA 102+50  
N 1180649.0263  
E 2259532.5119

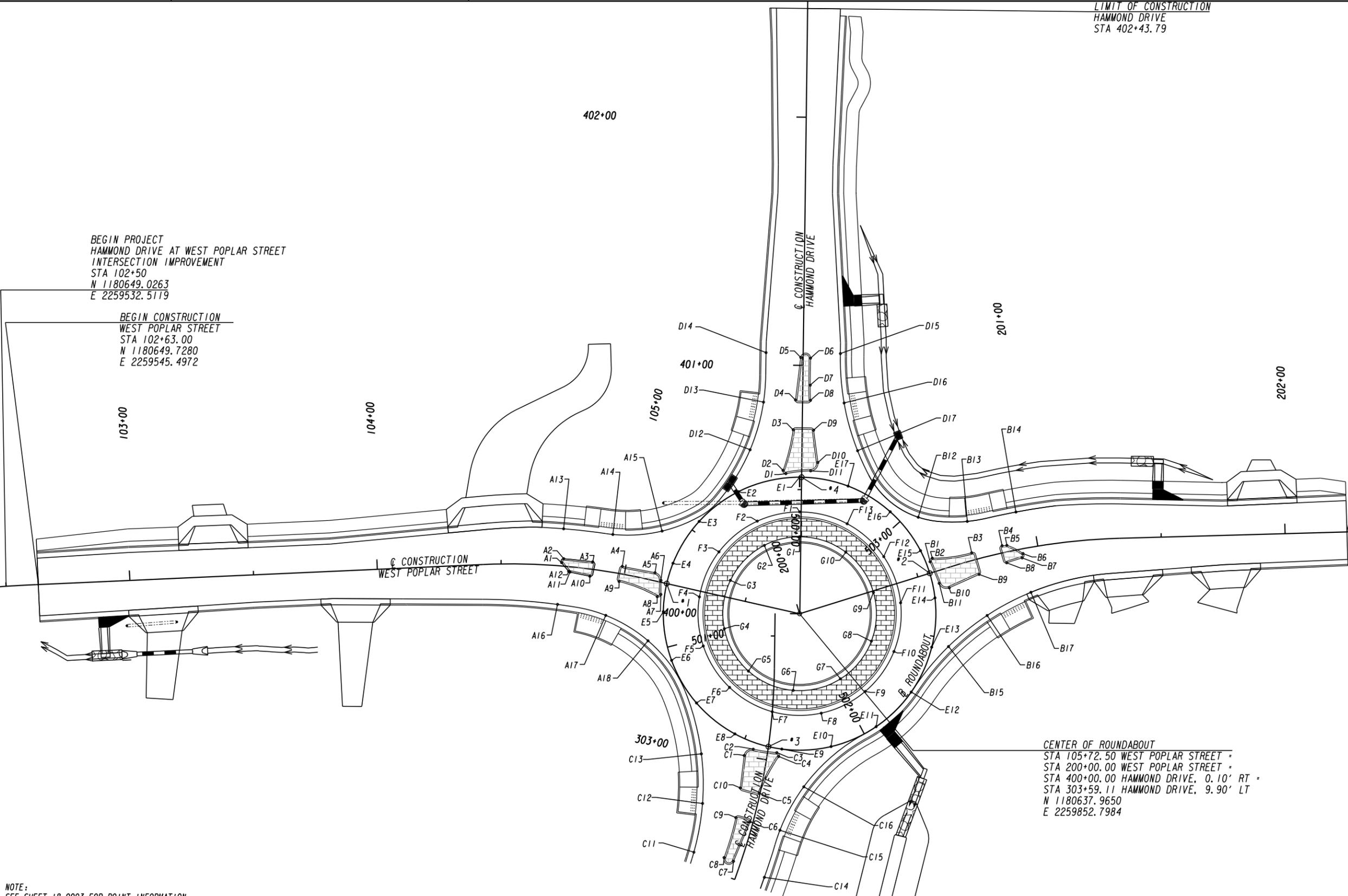
BEGIN CONSTRUCTION  
WEST POPLAR STREET  
STA 102+63.00  
N 1180649.7280  
E 2259545.4972

END CONSTRUCTION  
WEST POPLAR STREET  
STA 202+25.00  
N 1180670.9176  
E 2260073.7159

CONSTRUCTION  
WEST POPLAR STREET

END PROJECT  
HAMMOND DRIVE AT  
WEST POPLAR STREET  
INTERSECTION  
IMPROVEMENT  
STA 202+50  
N 1180671.6194  
E 2260098.7061

CENTER OF ROUNDABOUT  
STA 105+72.50 WEST POPLAR STREET =  
STA 200+00.00 WEST POPLAR STREET =  
STA 400+00.00 HAMMOND DRIVE, 0.10' RT =  
STA 303+59.11 HAMMOND DRIVE, 9.90' LT  
N 1180637.9650  
E 2259852.7984

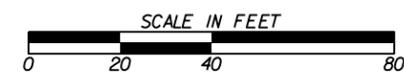


NOTE:  
SEE SHEET 18-0003 FOR POINT INFORMATION.

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

BEGIN LIMIT OF ACCESS.....BLA	-----k-----
END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668



REVISION DATES	

CITY OF GRIFFIN - PUBLIC WORKS  
**SPECIAL GRADING**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No. <b>18-0002</b>
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



**Curve\* 1**  
 PI Sta- 101+38.48  
 N= 1180643.9910  
 E= 2259417.5088  
 DELTA- 23°33'18.8" (RT)  
 D= 9°23'33.90"  
 T= 127.19  
 L= 250.78  
 R= 610.00  
 E= 13.12  
 D.S.= 35 MPH

**Curve\* 2**  
 PI Sta- 104+76.40  
 N= 1180659.2837  
 E= 2259758.6809  
 DELTA- 15°19'45.3" (RT)  
 D= 22°55'05.92"  
 T= 33.64  
 L= 66.89  
 R= 250.00  
 E= 2.25  
 D.S.= 30 MPH

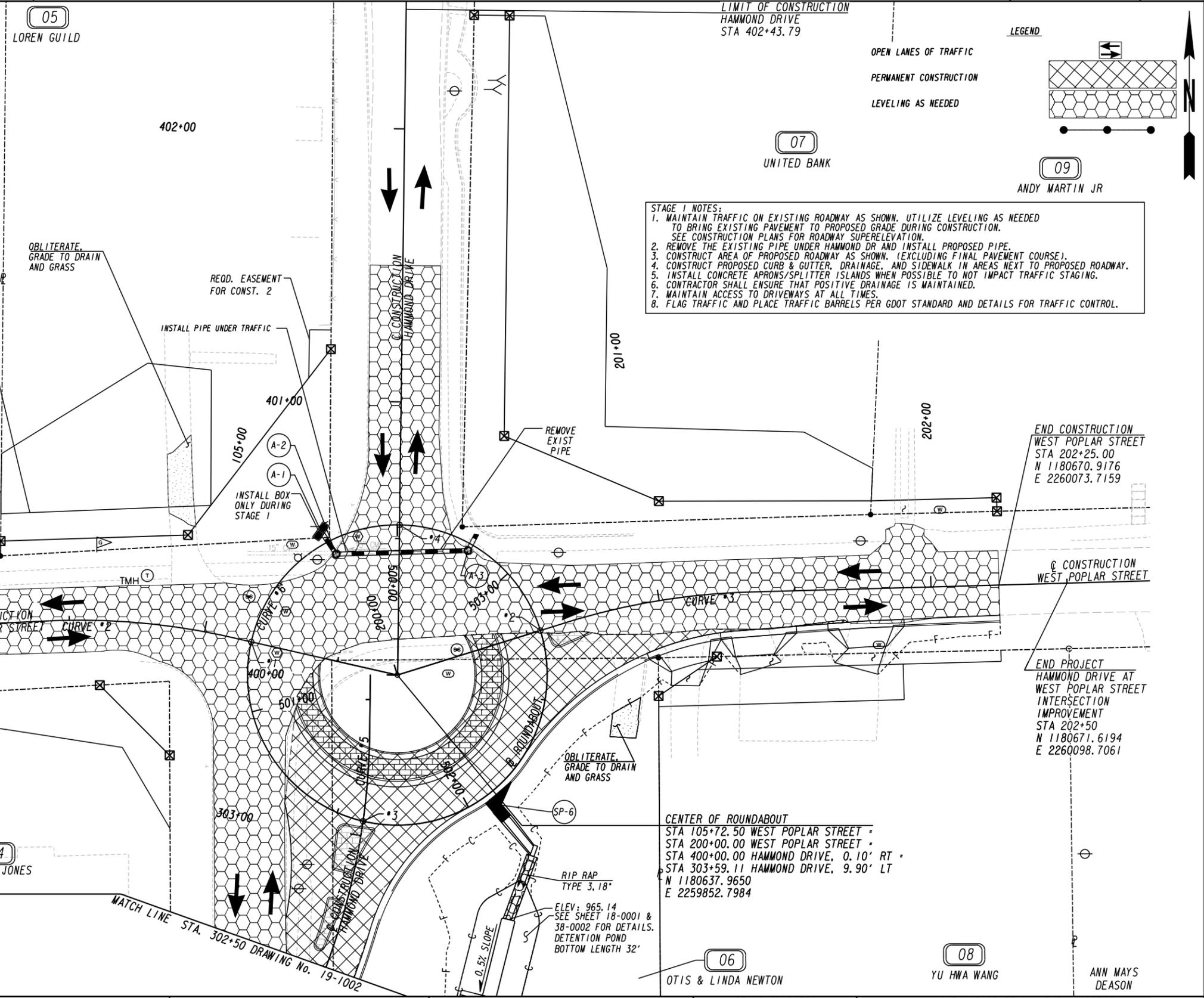
**Curve\* 3**  
 PI Sta- 200+99.21  
 N= 1180667.3743  
 E= 2259947.5489  
 DELTA- 15°38'05.8" (RT)  
 D= 22°55'05.92"  
 T= 34.32  
 L= 68.22  
 R= 250.00  
 E= 2.35  
 D.S.= 30 MPH

**Curve\* 5**  
 PI Sta- 302+96.10  
 N= 1180574.3290  
 E= 2259842.0741  
 DELTA- 18°52'52.4" (LT)  
 D= 22°55'05.92"  
 T= 41.57  
 L= 82.38  
 R= 250.00  
 E= 3.43  
 D.S.= 30 MPH

**Curve\* 6 Start (ROUNDBOUT)**  
 PC Sta 500+00.00  
 N= 1180692.9650  
 E= 2259852.7984  
 DELTA-360°00'00.0" (LT)  
 L=345.58  
 R= 55.00

**BEGIN PROJECT**  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT  
 STA 102+50  
 N 1180649.0263  
 E 2259532.5119

**BEGIN CONSTRUCTION**  
 WEST POPLAR STREET  
 STA 102+63.00  
 N 1180649.7280  
 E 2259545.4972

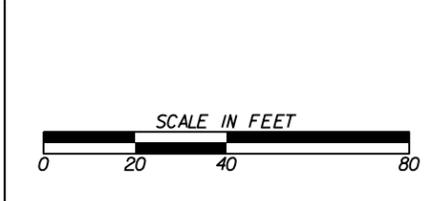


PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT  
 OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

-----e-----  
 -----f-----  
 ---C---F---  
 [Hatched Box]  
 [Hatched Box]  
 [Hatched Box]  
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

**H&L**  
 Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



REVISION DATES	

CITY OF GRIFFIN - PUBLIC WORKS  
**CONSTRUCTION STAGING PLAN - STAGE I**  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No. <b>19-1001</b>
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve\* 4  
 PI Sta. 301+69.75  
 N= 1180454.4678  
 E= 2259799.3422  
 DELTA= 20°02'58.9" (RT)  
 D= 22°55'05.92"  
 T= 44.19  
 L= 87.48  
 R= 250.00  
 E= 3.88  
 D.S. = 30 MPH

03  
 SOUKIM OUTHAVONG

02  
 STEPHANIE VILLIER

04  
 CHARLES JONES

06  
 OTIS & LINDA NEWTON

08  
 YU HWA WANG

ANN MAYS  
 DEASON

12  
 THOMAS M DANIEL  
 & MALINDA C JENKINS

11  
 DASH CAPITAL LLC

THOMAS M DANIEL  
 & MALINDA C JENKINS

10  
 CLARENCE HARVEY  
 & FAITHIA PUCKETT

THOMAS M DANIEL  
 & MALINDA C JENKINS

CHARLES F III &  
 KAREN SMITH

DARRELL HARRIS

MATCH LINE STA. 302+50 DRAWING No. 19-1001

OBLITERATE, GRADE TO DRAIN AND GRASS

RECD. EASEMENT FOR CONST. 2

302+00

301+00

300+00

C CONSTRUCTION  
 HAMMOND DRIVE

BEGIN CURB & GUTTER  
 TIE TO EXISTING  
 CURB & GUTTER  
 STA. 300+15.59  
 10.86' RT

LIMIT OF CONSTRUCTION  
 HAMMOND DRIVE  
 STA 300+00.00

- STAGE I NOTES:
1. MAINTAIN TRAFFIC ON EXISTING ROADWAY AS SHOWN. UTILIZE LEVELING AS NEEDED TO BRING EXISTING PAVEMENT TO PROPOSED GRADE DURING CONSTRUCTION. SEE CONSTRUCTION PLANS FOR ROADWAY SUPERELEVATION.
  2. REMOVE THE EXISTING PIPE UNDER HAMMOND DR AND INSTALL PROPOSED PIPE.
  3. CONSTRUCT AREA OF PROPOSED ROADWAY AS SHOWN. (EXCLUDING FINAL PAVEMENT COURSE).
  4. CONSTRUCT PROPOSED CURB & GUTTER, DRAINAGE, AND SIDEWALK IN AREAS NEXT TO PROPOSED ROADWAY.
  5. INSTALL CONCRETE APRONS/SPLITTER ISLANDS WHEN POSSIBLE TO NOT IMPACT TRAFFIC STAGING.
  6. CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.
  7. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
  8. FLAG TRAFFIC AND PLACE TRAFFIC BARRELS PER GDOT STANDARD AND DETAILS FOR TRAFFIC CONTROL.



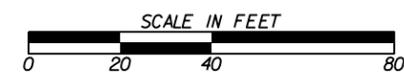
LEGEND

- OPEN LANES OF TRAFFIC
- PERMANENT CONSTRUCTION
- LEVELING AS NEEDED

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT  
 OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

---e---  
 BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 ---C---F---  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

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 770.424.1668



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		CONSTRUCTION STAGING PLAN - STAGE I HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	19-1002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

**Curve\* 1**  
 PI Sta= 101+38.48  
 N= 1180643.9910  
 E= 2259417.5088  
 DELTA= 23°33'18.8" (RT)  
 D= 9°23'33.90"  
 T= 127.19  
 L= 250.78  
 R= 610.00  
 E= 13.12  
 D.S.= 35 MPH

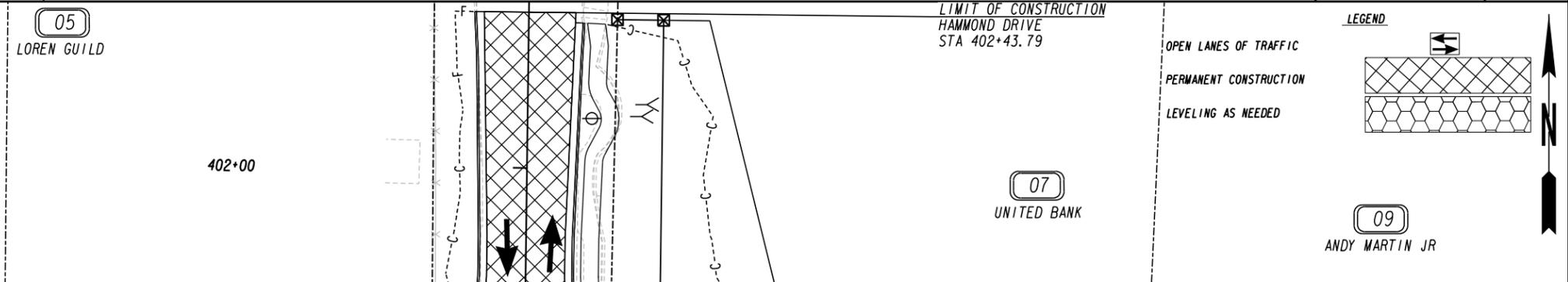
**Curve\* 2**  
 PI Sta= 104+76.40  
 N= 1180659.2837  
 E= 2259758.6809  
 DELTA= 15°19'45.3" (RT)  
 D= 22°55'05.92"  
 T= 33.64  
 L= 66.89  
 R= 250.00  
 E= 2.25  
 D.S.= 30 MPH

**Curve\* 3**  
 PI Sta= 200+99.21  
 N= 1180667.3743  
 E= 2259947.5489  
 DELTA= 15°38'05.8" (RT)  
 D= 22°55'05.92"  
 T= 34.32  
 L= 68.22  
 R= 250.00  
 E= 2.35  
 D.S.= 30 MPH

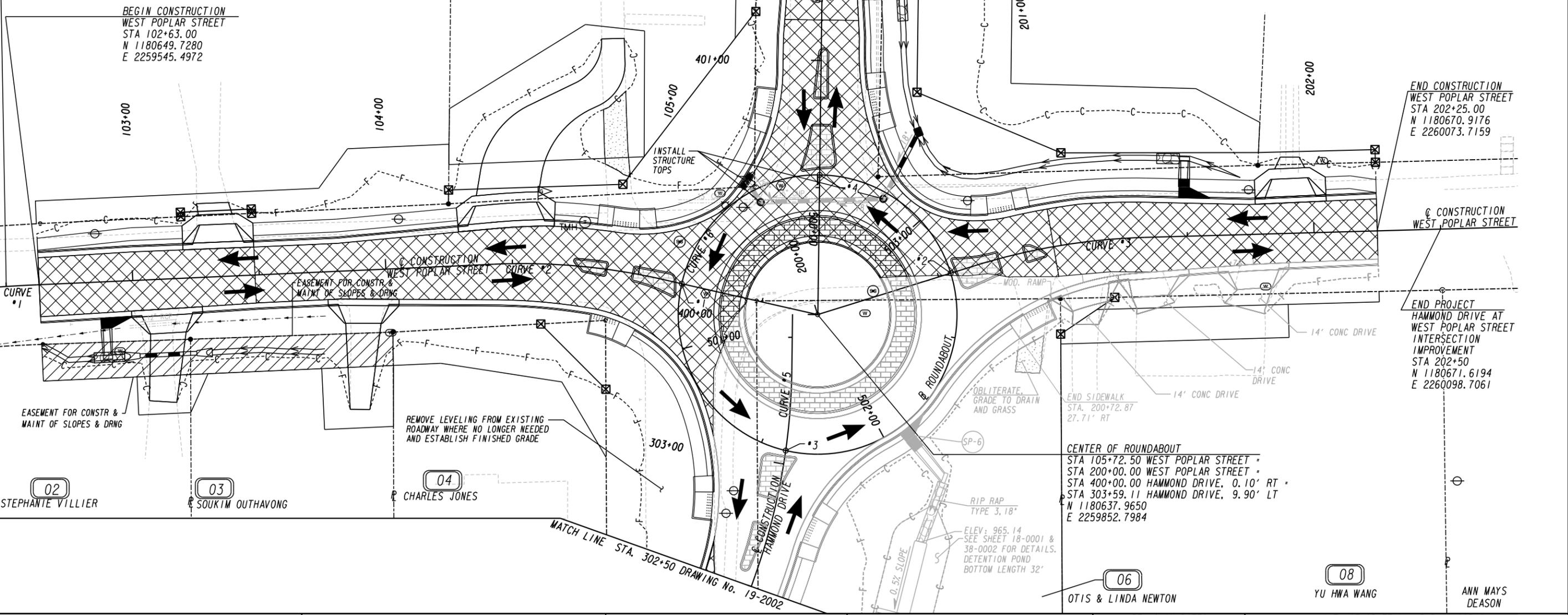
**Curve\* 5**  
 PI Sta= 302+96.10  
 N= 1180574.3290  
 E= 2259842.0741  
 DELTA= 18°52'52.4" (LT)  
 D= 22°55'05.92"  
 T= 41.57  
 L= 82.38  
 R= 250.00  
 E= 3.43  
 D.S.= 30 MPH

**Curve\* 6 Start (ROUNDBOUT)**  
 PC Sta 500+00.00  
 N= 1180692.9650  
 E= 2259852.7984  
 DELTA= 360°00'00.0" (LT)  
 R= 55.00

**01**  
 EUGENE W DABBS IV  
 BEGIN PROJECT  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT  
 STA 102+50  
 N 1180649.0263  
 E 2259532.5119



**STAGE 2 NOTES:**  
 1. SHIFT TRAFFIC TO INSTALL CIRCULATORY PATTERN AND UTILIZE LEVELING AS NECESSARY.  
 2. CONSTRUCT AREA OF PROPOSED ROADWAY AS SHOWN.  
 3. CONSTRUCT PROPOSED CURB AND GUTTER, DRAINAGE, AND SIDEWALK IN AREAS NEXT TO PROPOSED ROADWAY.  
 4. INSTALL CONCRETE APRONS/SPLITTER ISLANDS WHEN POSSIBLE TO NOT IMPACT TRAFFIC STAGING.  
 5. FLAG TRAFFIC TO INSTALL FINAL PAVEMENT COURSE.  
 6. INSTALL PAVEMENT MARKING PER SIGNING & MARKING PLANS.  
 7. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

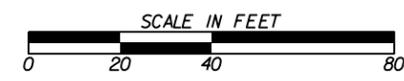


PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

-----e-----  
 ---C---F---  
 [Hatched Box]  
 [Hatched Box]  
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

**H&L**  
 Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CONSTRUCTION STAGING PLAN - STAGE 2</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:		
BACKCHECKED:	DATE:		
CORRECTED:	DATE:	DRAWING No.	
VERIFIED:	DATE:	19-2001	

Curve\* 4  
PI Sta. 301+69.75  
N= 1180454.4678  
E= 2259799.3422  
DELTA= 20°02'58.9" (RT)  
D= 22°55'05.92"  
T= 44.19  
L= 87.48  
R= 250.00  
E= 3.88  
D.S. = 30 MPH

REMOVE LEVELING FROM EXISTING ROADWAY WHERE NO LONGER NEEDED AND ESTABLISH FINISHED GRADE

MATCH LINE STA. 302+50 DRAWING No. 19-2001

08  
YU HWA WANG

ANN MAYS DEASON



STAGE 2 NOTES:  
1. SHIFT TRAFFIC TO INSTALL CIRCULATORY PATTERN AND UTILIZE LEVELING AS NECESSARY.  
2. CONSTRUCT AREA OF PROPOSED ROADWAY AS SHOWN.  
3. CONSTRUCT PROPOSED CURB AND GUTTER, DRAINAGE, AND SIDEWALK IN AREAS NEXT TO PROPOSED ROADWAY.  
4. INSTALL CONCRETE APRONS/SPLITTER ISLANDS WHEN POSSIBLE TO NOT IMPACT TRAFFIC STAGING.  
5. FLAG TRAFFIC TO INSTALL FINAL PAVEMENT COURSE.  
6. INSTALL PAVEMENT MARKING PER SIGNING & MARKING PLANS.  
7. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

02  
STEPHANIE VILLIER

04  
CHARLES JONES

06  
OTIS & LINDA NEWTON

12  
THOMAS M DANIEL & MALINDA C JENKINS

11  
DASH CAPITAL LLC

10  
CLARENCE HARVEY & FAITHIA PUCKETT

THOMAS M DANIEL & MALINDA C JENKINS

THOMAS M DANIEL & MALINDA C JENKINS

CHARLES F III & KAREN SMITH

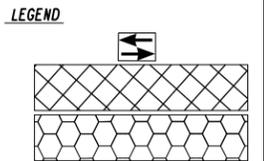
DARRELL HARRIS

DO NOT DISTURB EXISTING TREE

BEGIN CURB & GUTTER TIE TO EXISTING CURB & GUTTER STA. 300+25.62 11.10' LT & 13.10' LT

BEGIN CURB & GUTTER TIE TO EXISTING CURB & GUTTER STA. 300+15.59 10.86' RT

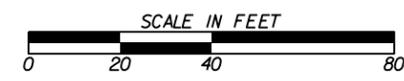
LIMIT OF CONSTRUCTION HAMMOND DRIVE STA 300+00.00



PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES

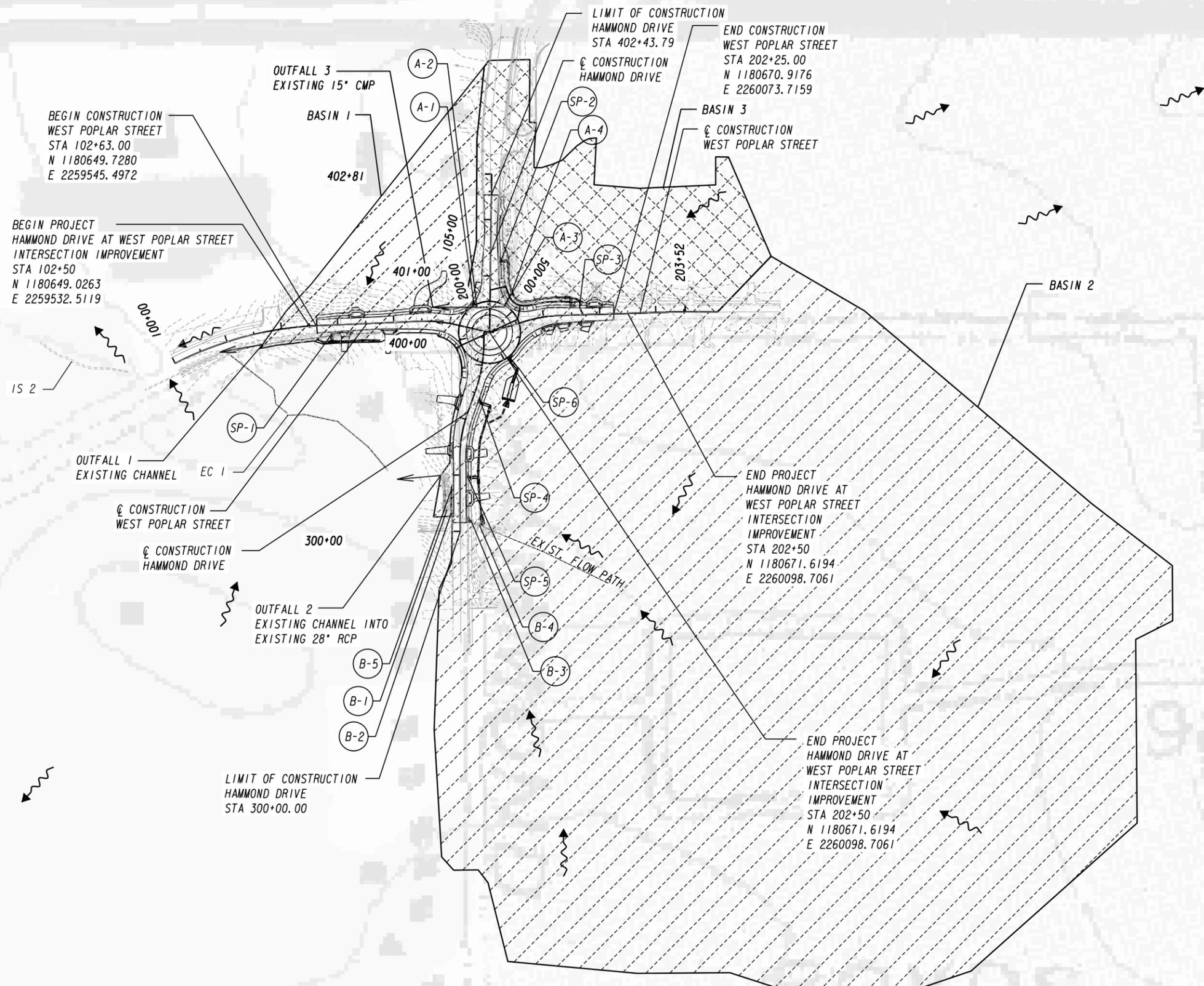
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END LIMIT OF ACCESS.....ELA  
REQ'D LIMIT OF ACCESS  
REQ'D LIMIT OF ACCESS & R/W  
ORANGE BARRIER FENCE  
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668



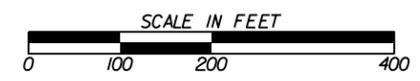
REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		CONSTRUCTION STAGING PLAN - STAGE 2 HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		

DRAWING No.  
19-2002



TOTAL PROJECT DISTURBED AREA • 1.82 AC  
 TOTAL PROJECT AREA • 2.62 AC

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 Marietta, Georgia 30066  
 770.424.1668



REVISION DATES	

CITY OF GRIFFIN - PUBLIC WORKS  
**DRAINAGE AREA MAP**  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No. <b>21-0001</b>
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

BASIN NO.	OUTFALL LOCATION AND DESCRIPTION				DISTURBED AREA	CONTRIBUTING AREA (ac)	EXISTING RUNOFF COEFFICIENT			EXISTING RUNOFF (CFS)			PROPOSED RUNOFF COEFFICIENT			PROPOSED RUNOFF (CFS)			PRE - HEADWATER ELEV.		PRE - VELOCITY (FPS)		POST - HEADWATER ELEV.		POST - VELOCITY (FPS)	
	ROAD	STATION	OFFSET	STRUCTURE TYPE			C <sub>25</sub>	C <sub>50</sub>	C <sub>100</sub>	(cfs) Q <sub>25</sub>	(cfs) Q <sub>50</sub>	(cfs) Q <sub>100</sub>	C <sub>25</sub>	C <sub>50</sub>	C <sub>100</sub>	(cfs) Q <sub>25</sub>	(cfs) Q <sub>50</sub>	(cfs) Q <sub>100</sub>	(ft) HW <sub>50</sub>	(ft) HW <sub>100</sub>	(fps) V <sub>50</sub>	(fps) V <sub>100</sub>	(ft) HW <sub>50</sub>	(ft) HW <sub>100</sub>	(fps) V <sub>50</sub>	(fps) V <sub>100</sub>
1	WEST POPLAR STREET	101+61.54	20.49' RT	EXISTING CHANNEL	0.35	2.12	0.49	0.54	0.56	6.67	8.17	9.44	0.53	0.58	0.60	7.77	9.51	10.99	N/A	N/A	5.55	5.77	N/A	N/A	5.79	6.02
2	HAMMOND DRIVE	300+99.55	34.06' LT	EXISTING CHANNEL INTO EXISTING 28" RCP	0.85	30.24	0.44	0.48	0.50	37.91	46.76	54.49	0.45	0.49	0.51	38.18	47.10	54.89	958.18	958.19	11.89	11.90	958.18	958.19	11.76	11.77
3	WEST POPLAR STREET	105+39.84	38.19' LT	EXISTING 15" CMP	0.39	3.10	0.52	0.56	0.59	8.28	10.16	11.76	0.51	0.55	0.58	7.95	9.76	11.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Structure #	Location	STATION/ OFFSET	Description	Total Area (ac)	Pipe Size & Type	Skew Angle (DD MM SS)	POST - Composite Runoff Coefficient	POST - Flood Discharge	POST - Velocities
							C <sub>10</sub>	(cfs) Q <sub>10</sub>	(fps) V <sub>10</sub>
A-1	HAMMOND DRIVE	400+52.23, 28.80' LT	GA STD. 1019A	0.30	18" RCP	N/A	0.79	1.96	8.06
A-4	HAMMOND DRIVE	400+72.32, 38.77' RT	GA STD. 1035	3.10	18" RCP	N/A	0.46	5.95	11.08
B-2	HAMMOND DRIVE	300+30.63, 11.71' LT	GA STD. 1034D	0.56	EXIST 30" CMP	N/A	0.66	1.73	6.25
B-3	HAMMOND DRIVE	300+20.61, 11.44' RT	GA STD. 1034D	0.30	EXIST 30" CMP	N/A	1.04	1.45	5.95
B-5	HAMMOND DRIVE	300+74.11, 15.17' LT	GA STD. 1033D	0.19	EXIST 18" RCP	N/A	0.83	1.29	6.87

9/8/2023 7:25:09 AM \$PRF88 J:\2019044\2019044\03\_DGN\2019044\_21-0002.dgn

9/8/2023 7:25:09 AM \$PRF88 J:\2019044\2019044\03\_DGN\2019044\_21-0002.dgn



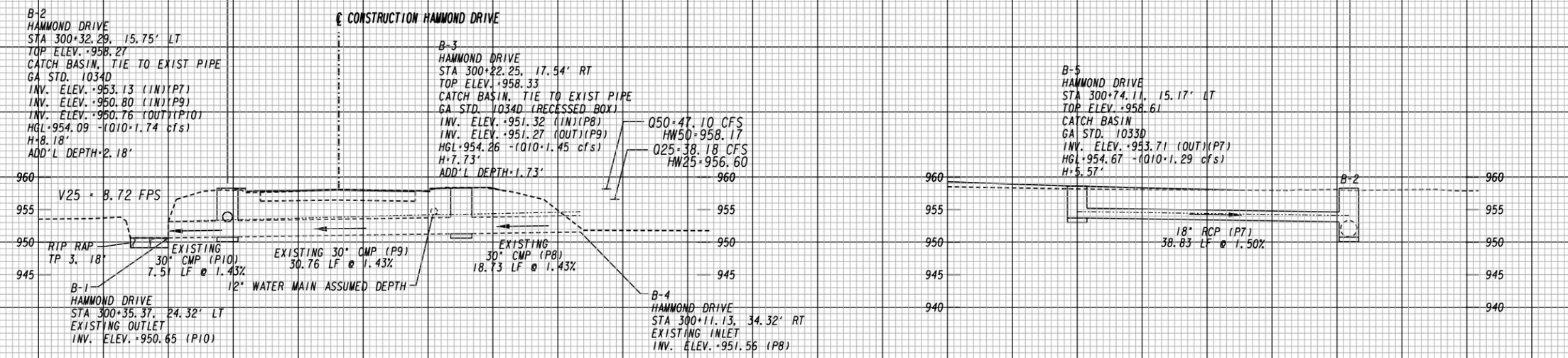
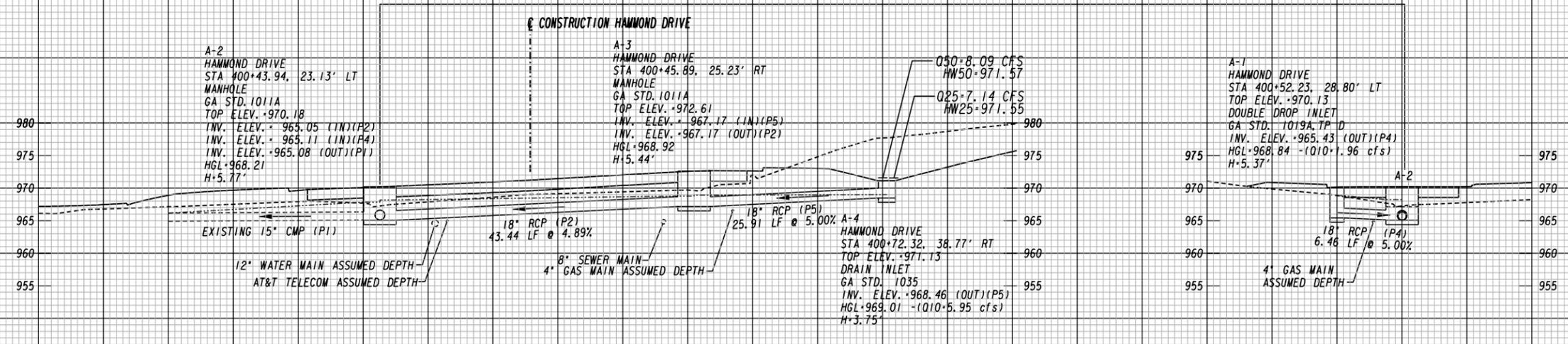
**Heath & Lineback**  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668

REVISION DATES


CITY OF GRIFFIN - PUBLIC WORKS

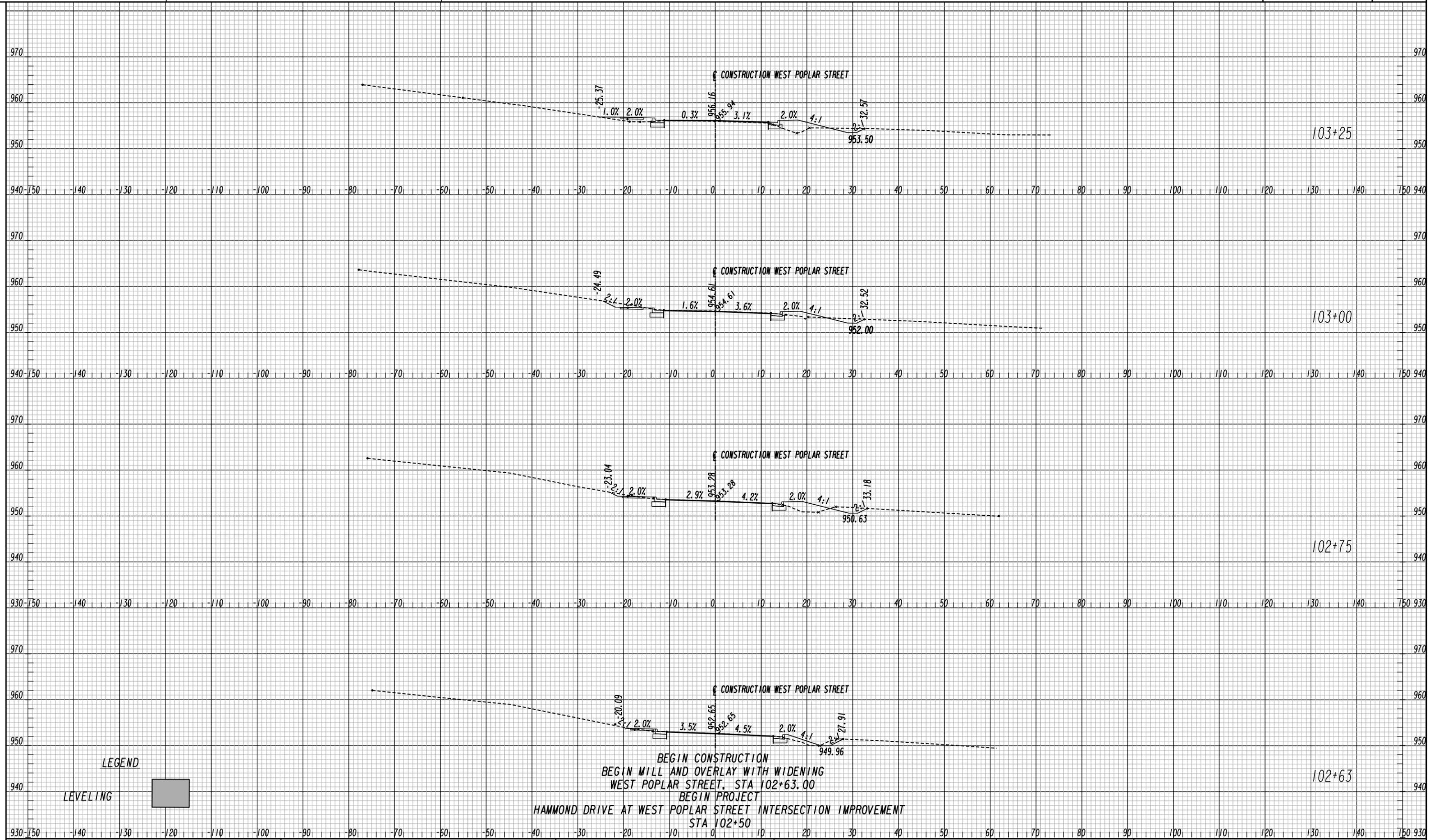
**DRAINAGE AREA MAP**  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT

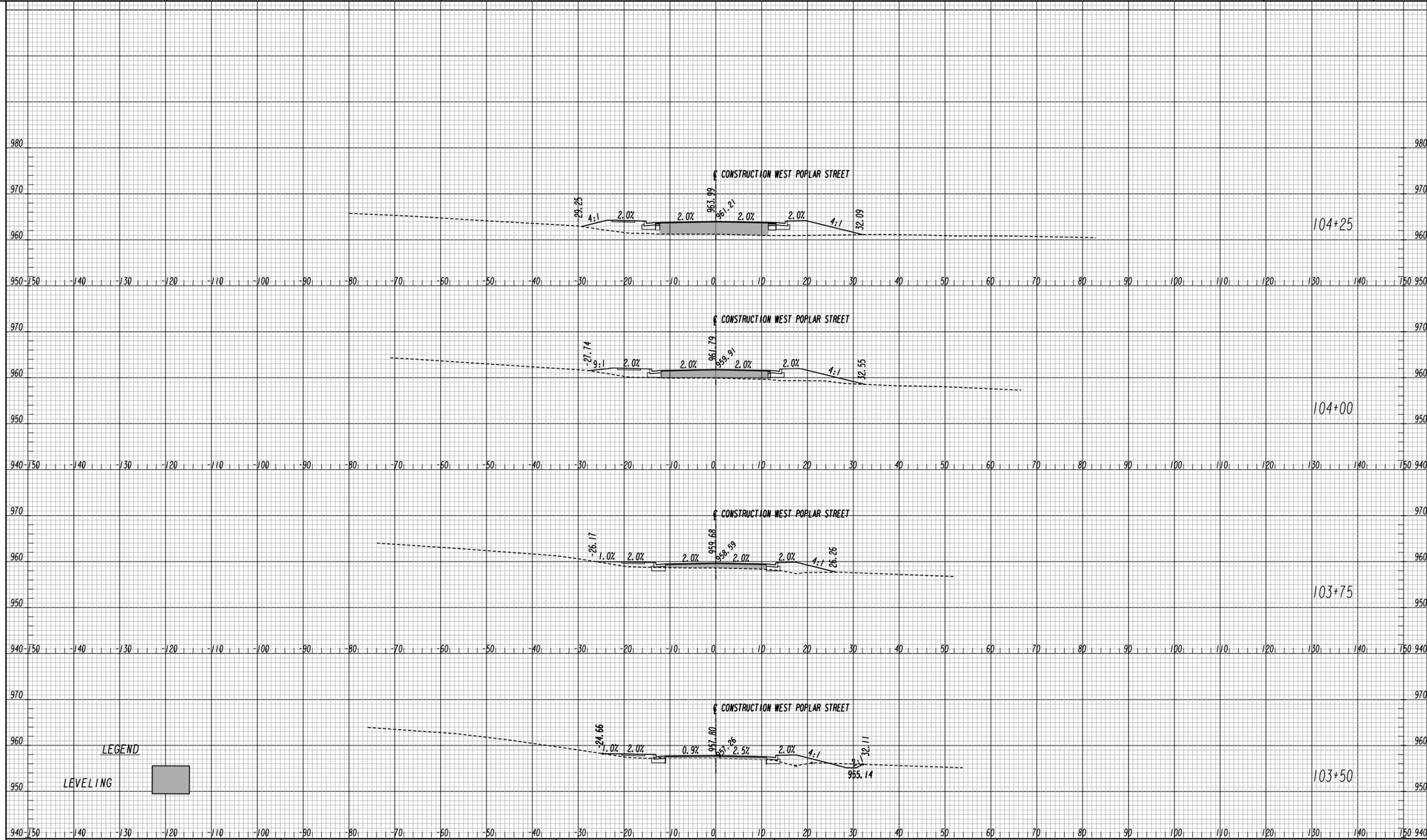
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BACKCHECKED:	DATE:	21-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>DRAINAGE PROFILES</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No. <b>22-0001</b>	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		





LEGEND

LEVELING



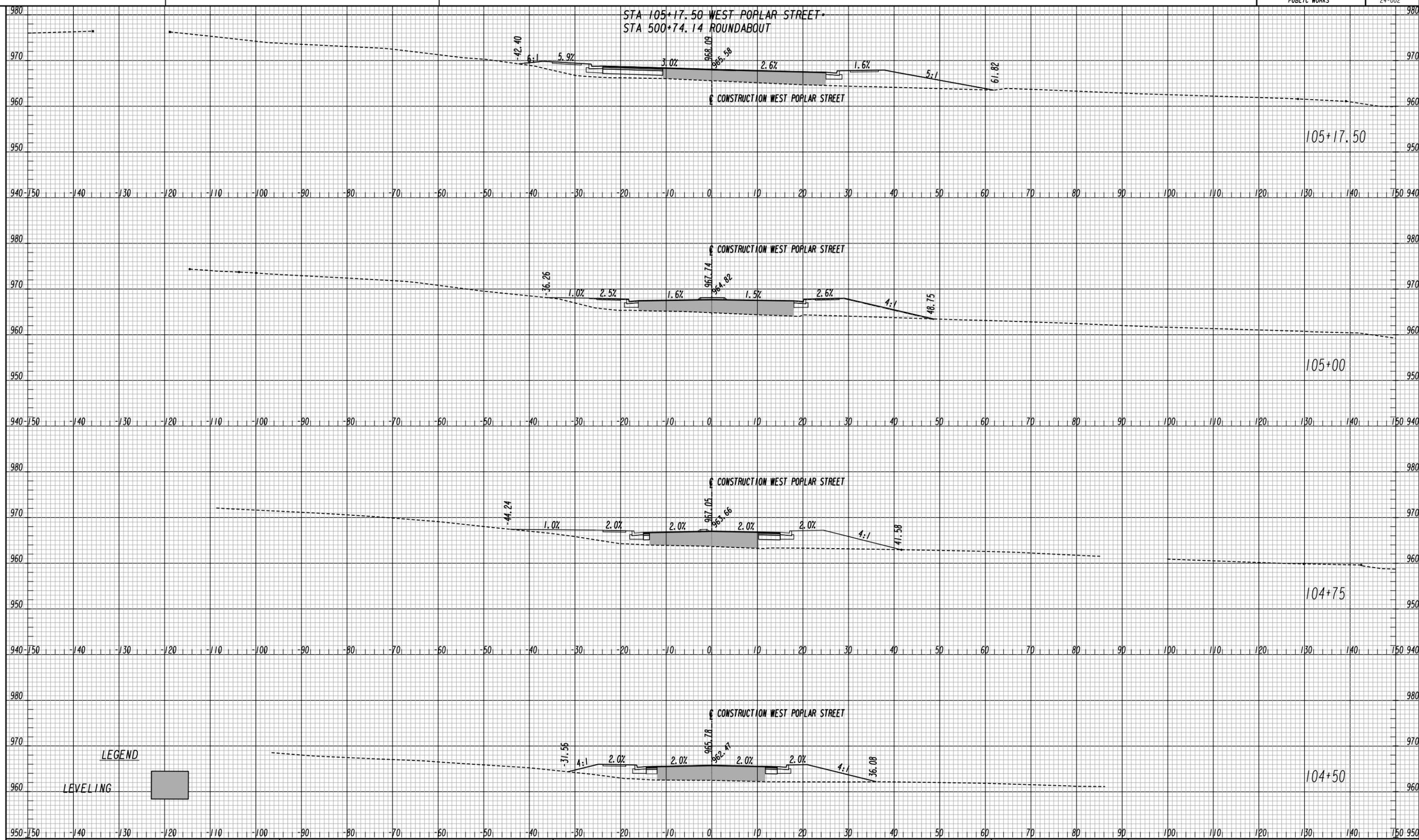
SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

**CROSS SECTIONS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

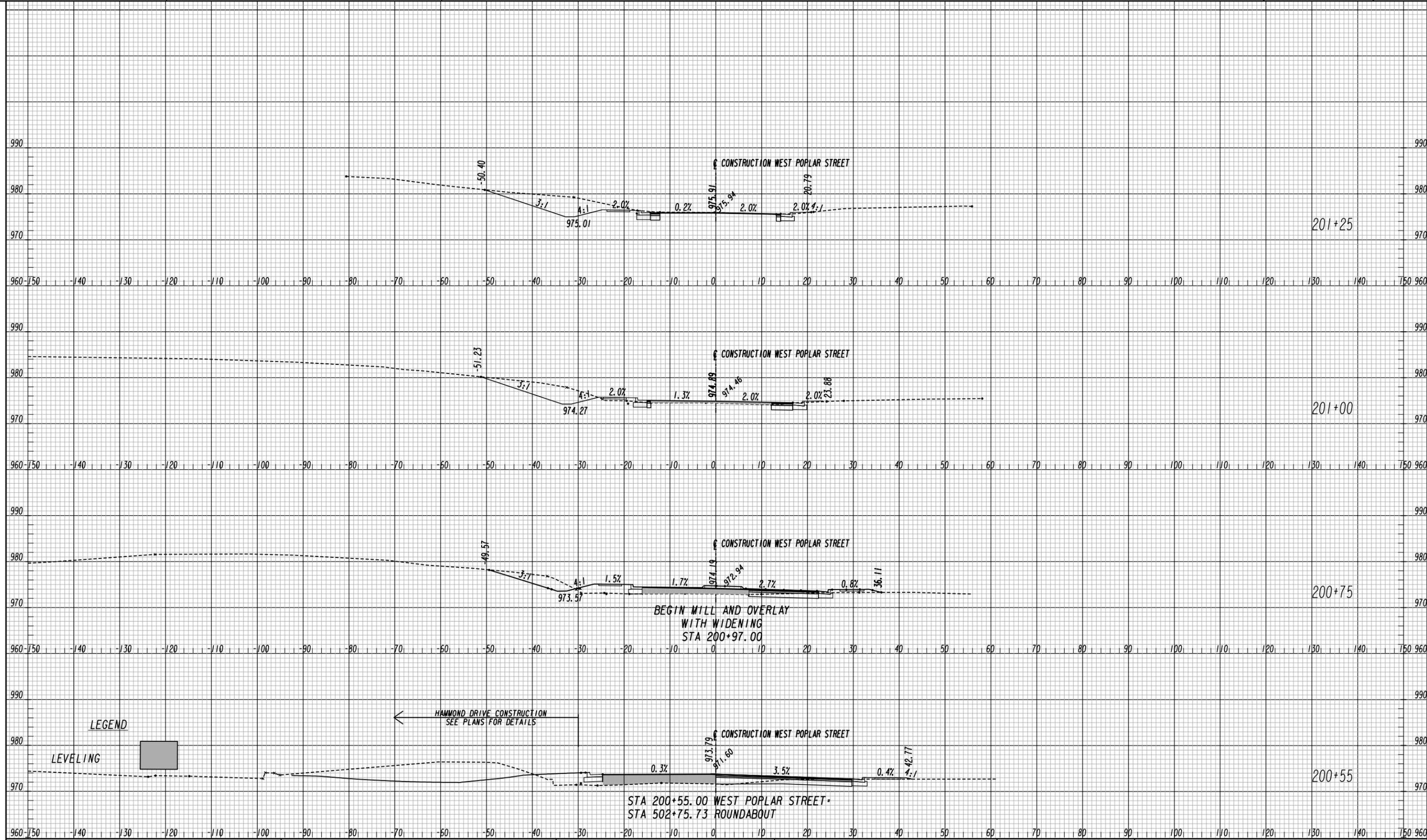


LEGEND  
LEVELING

**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSS SECTIONS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET	
		INTERSECTION IMPROVEMENT	
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BACKCHECKED:	DATE:	23-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

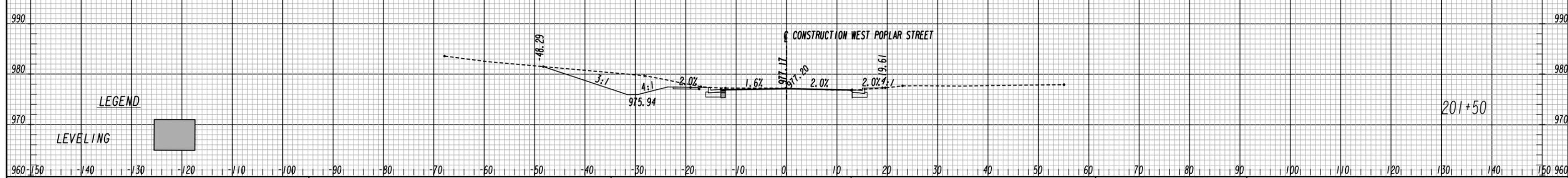
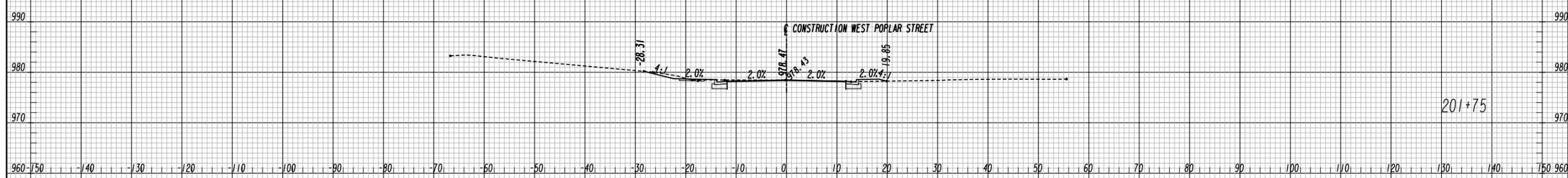
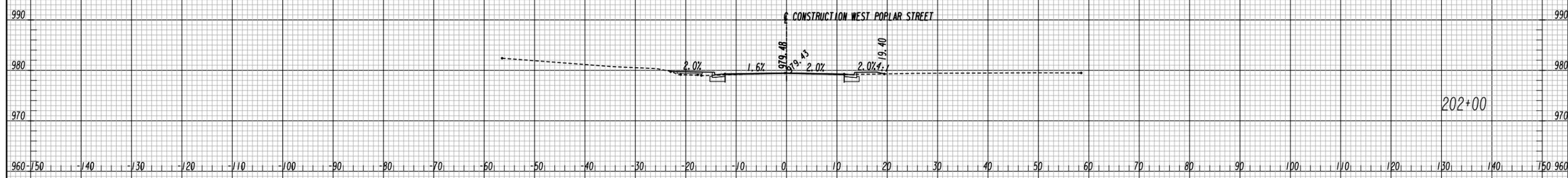
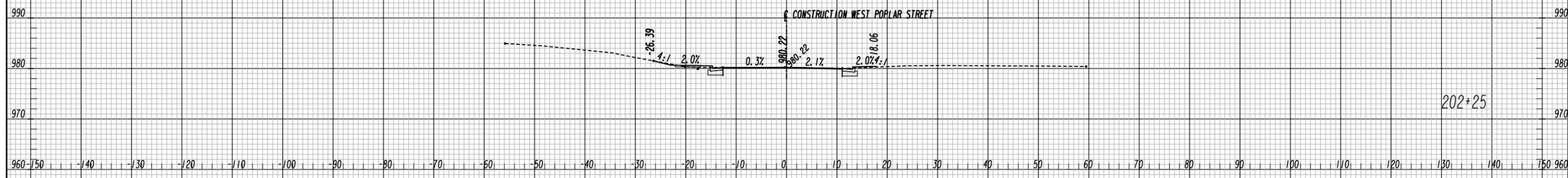


SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		CROSS SECTIONS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
		CHECKED: _____	DATE: _____
		BACKCHECKED: _____	DATE: _____
		CORRECTED: _____	DATE: _____
		VERIFIED: _____	DATE: _____
DRAWING No.			23-0004

END PROJECT  
HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT  
STA 202+50.00

END CONSTRUCTION  
WEST POPLAR STREET  
STA 202+25.00



LEGEND

LEVELING



**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road Building 200  
Marietta, Georgia 30066  
770.424.1668

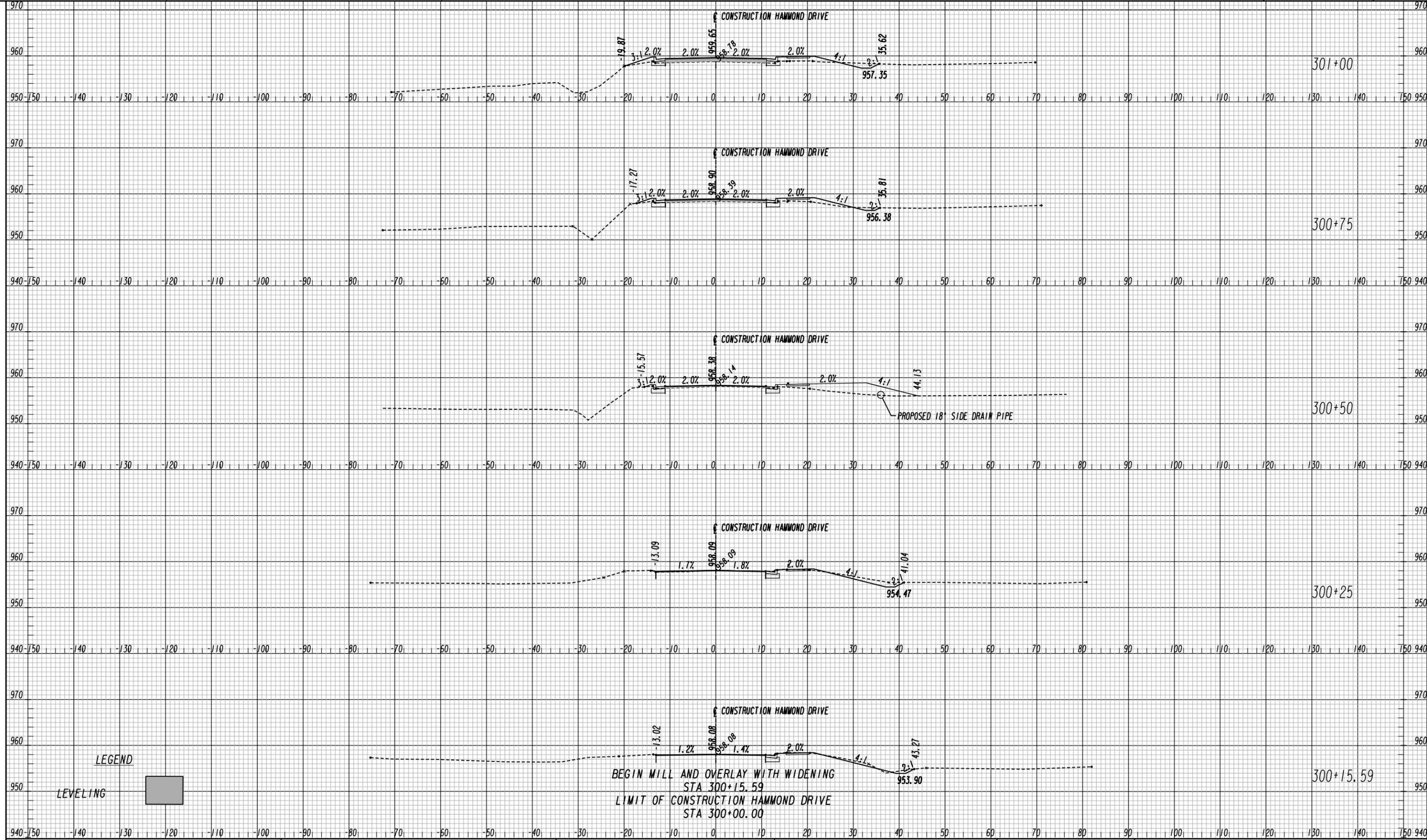
SCALE:  
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1 INCH = 10 FEET HORIZ.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

**CROSS SECTIONS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

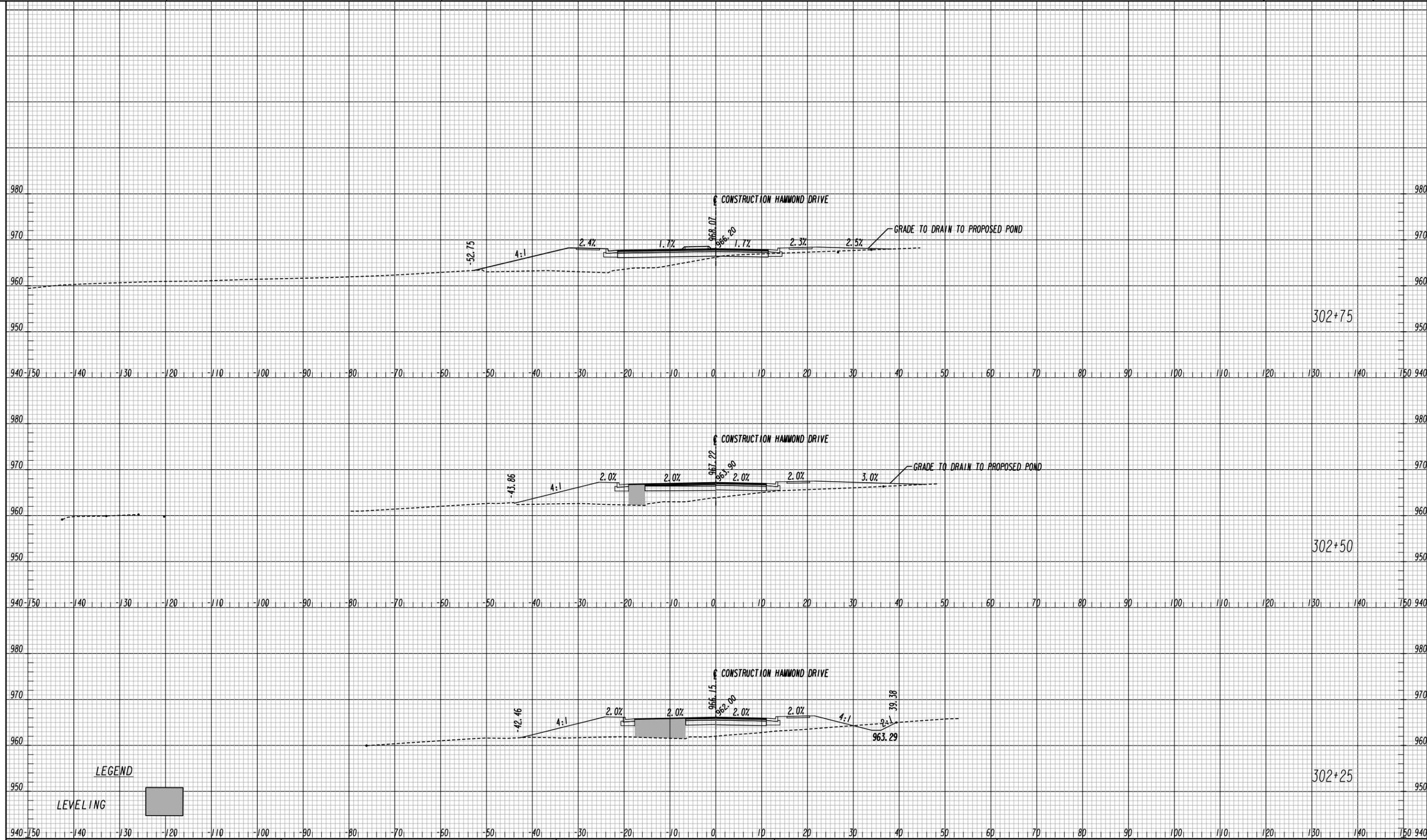
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



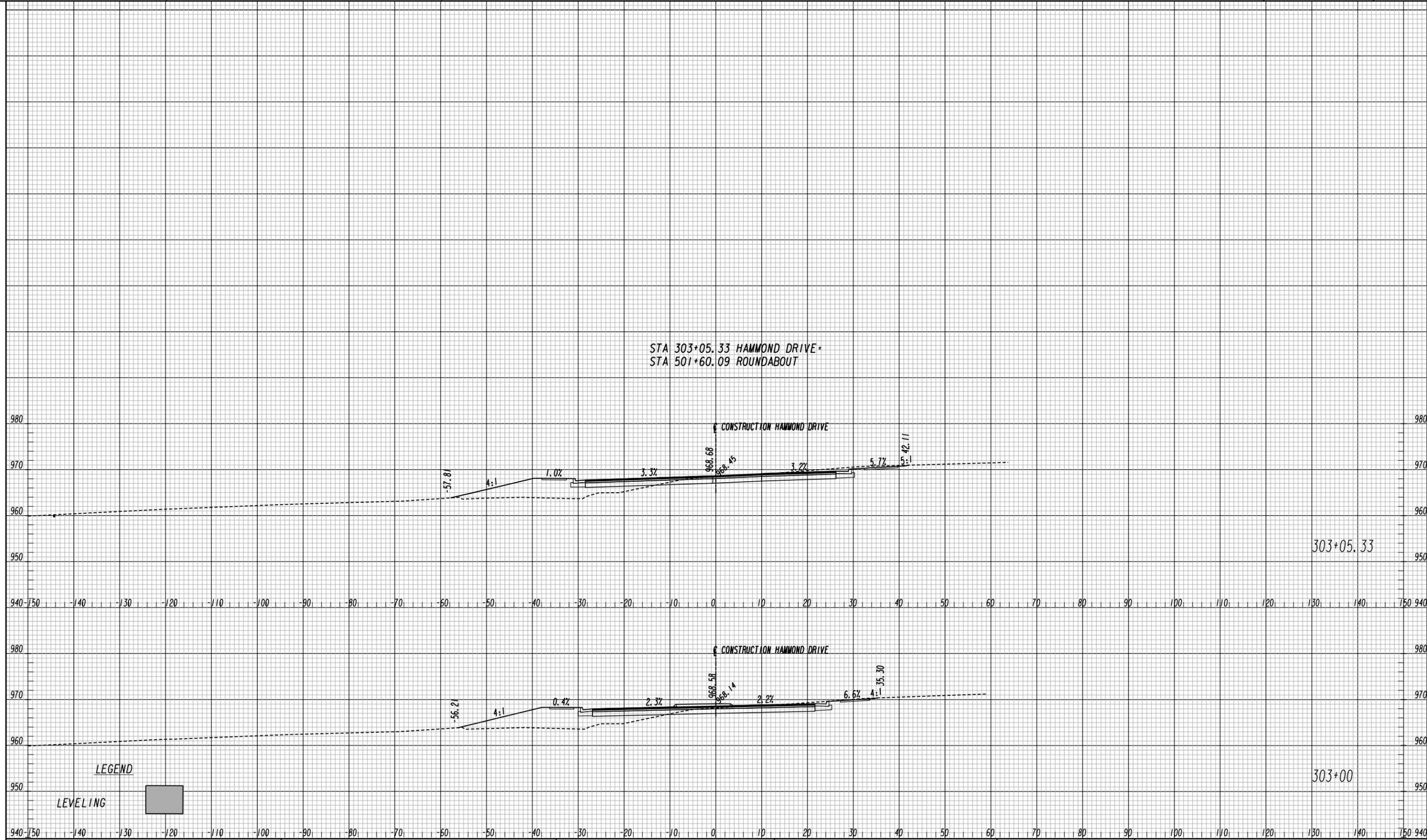
SCALE:  
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1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		





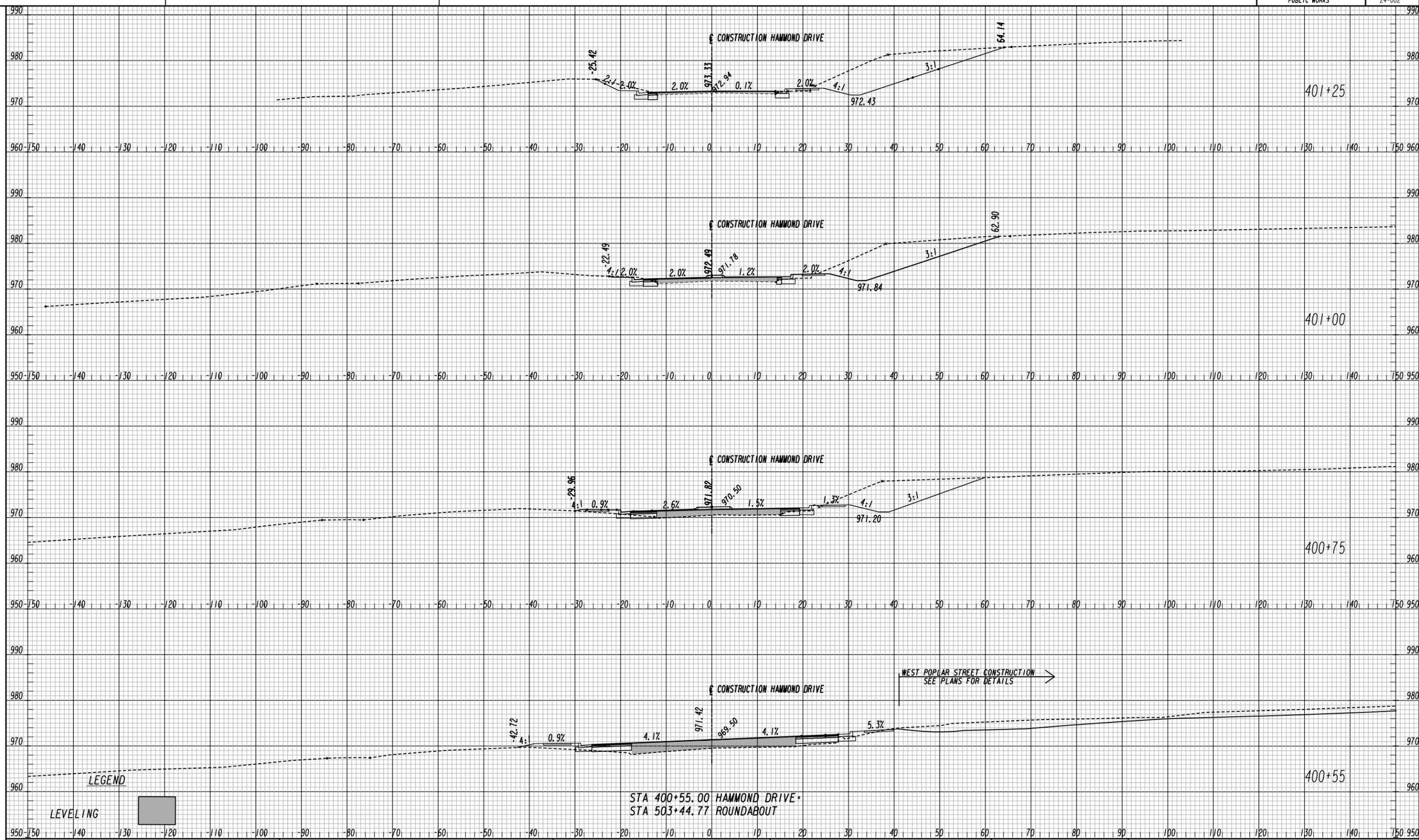
REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT</b>	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0008	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



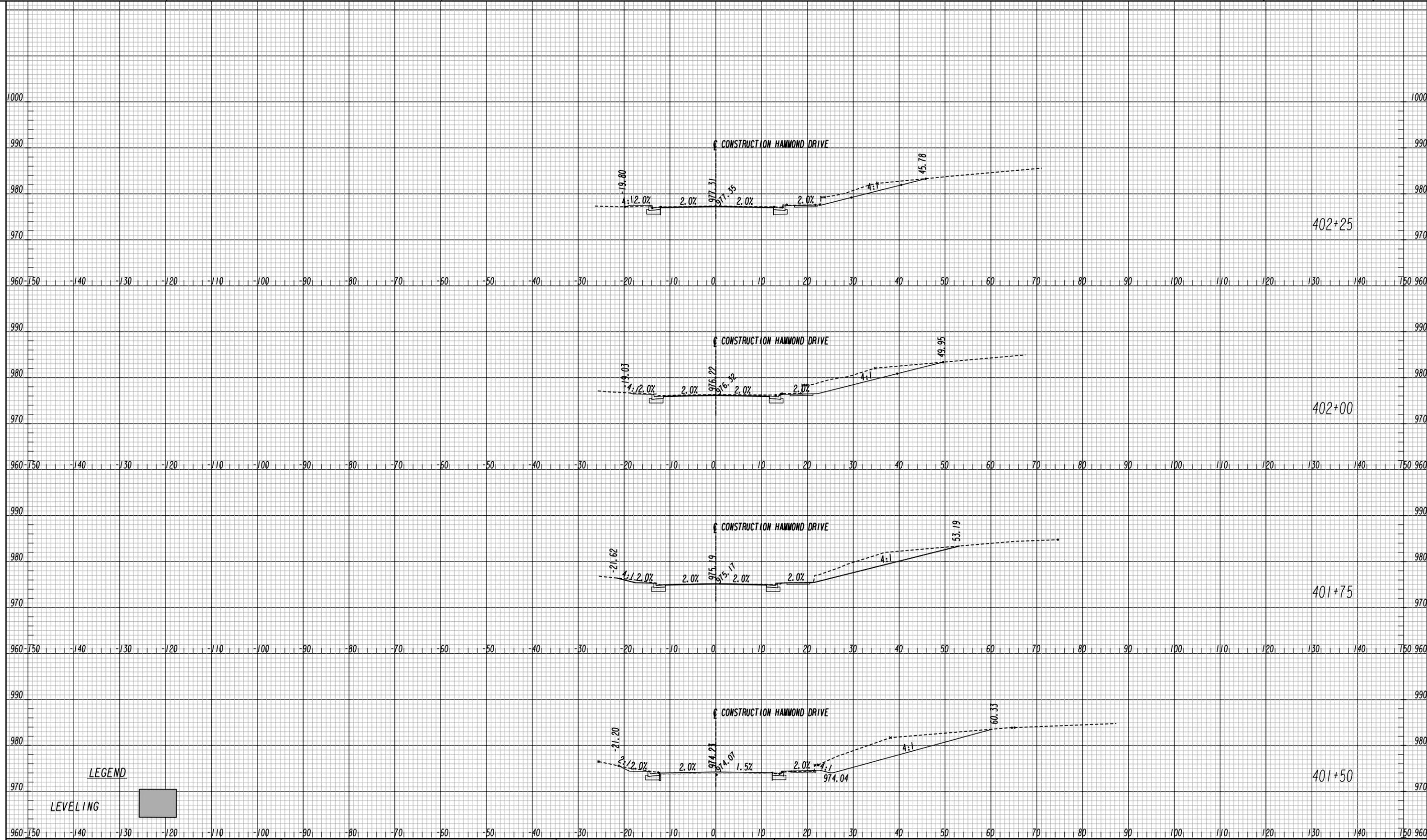
**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT</b>	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0009	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSS SECTIONS</b>	
HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0010	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



LEGEND

LEVELING



**H&L**  
A BCC COMPANY

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

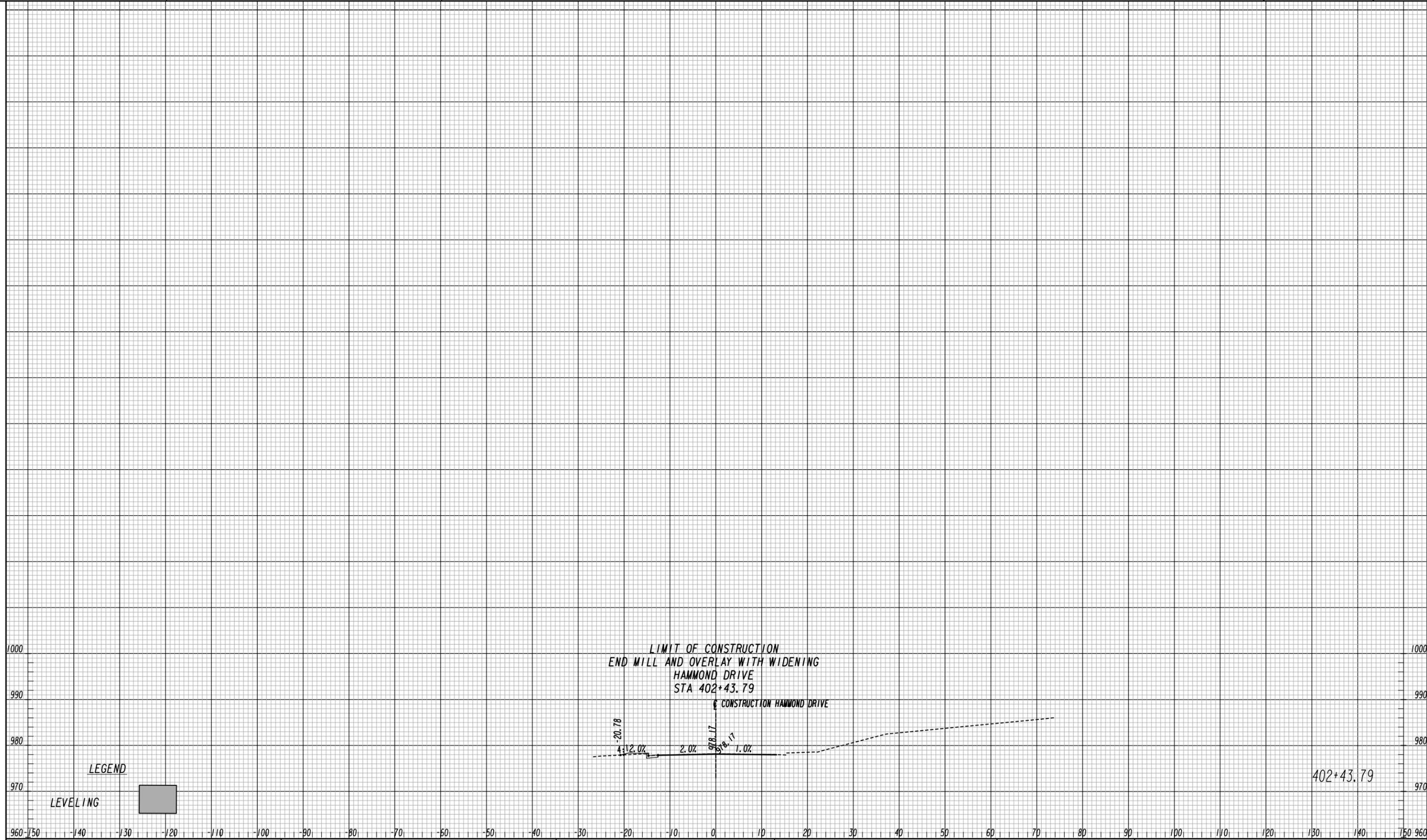
SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

**CROSS SECTIONS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



LEGEND

LEVELING

**H&L**  
A BCC COMPANY

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

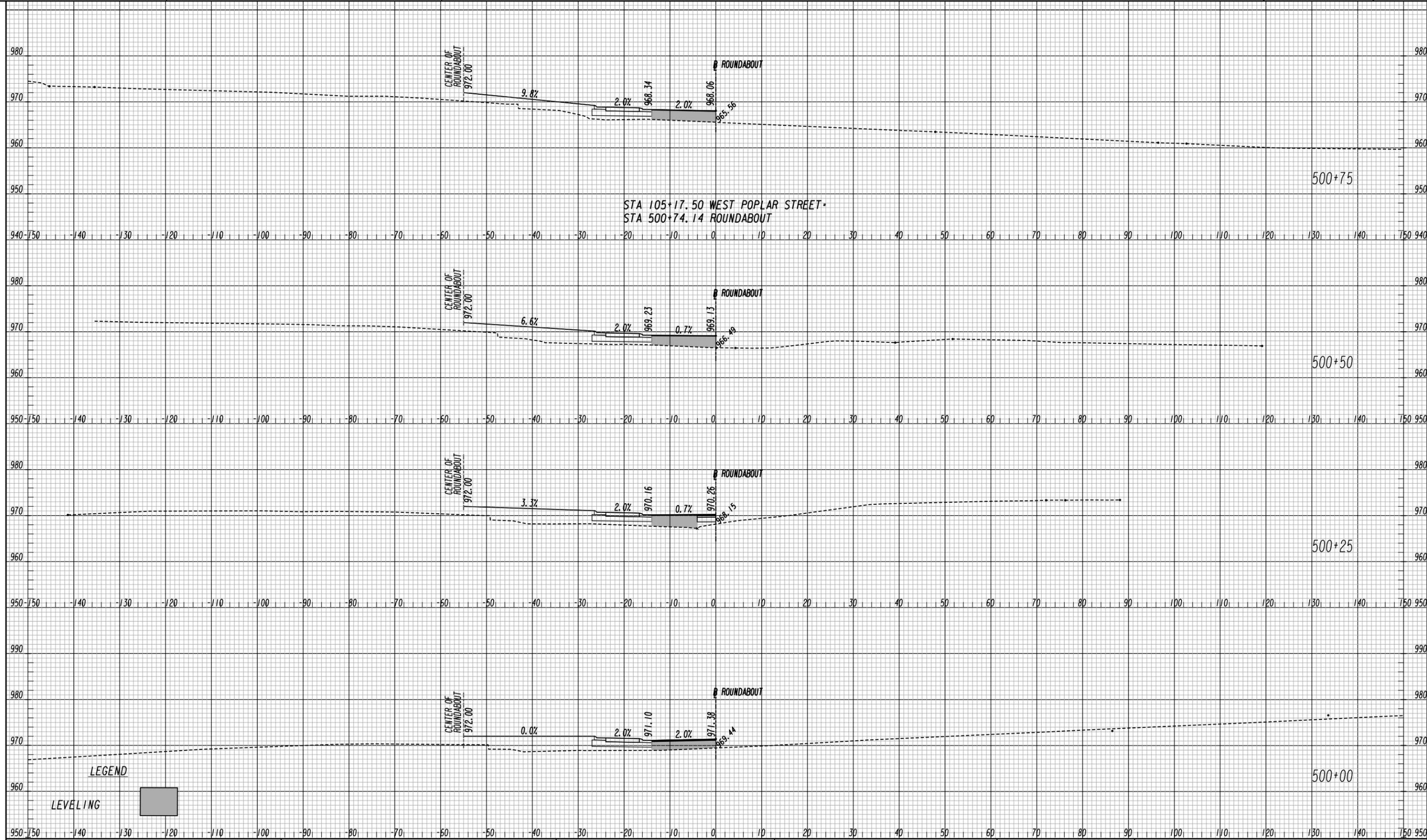
SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

**CROSS SECTIONS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

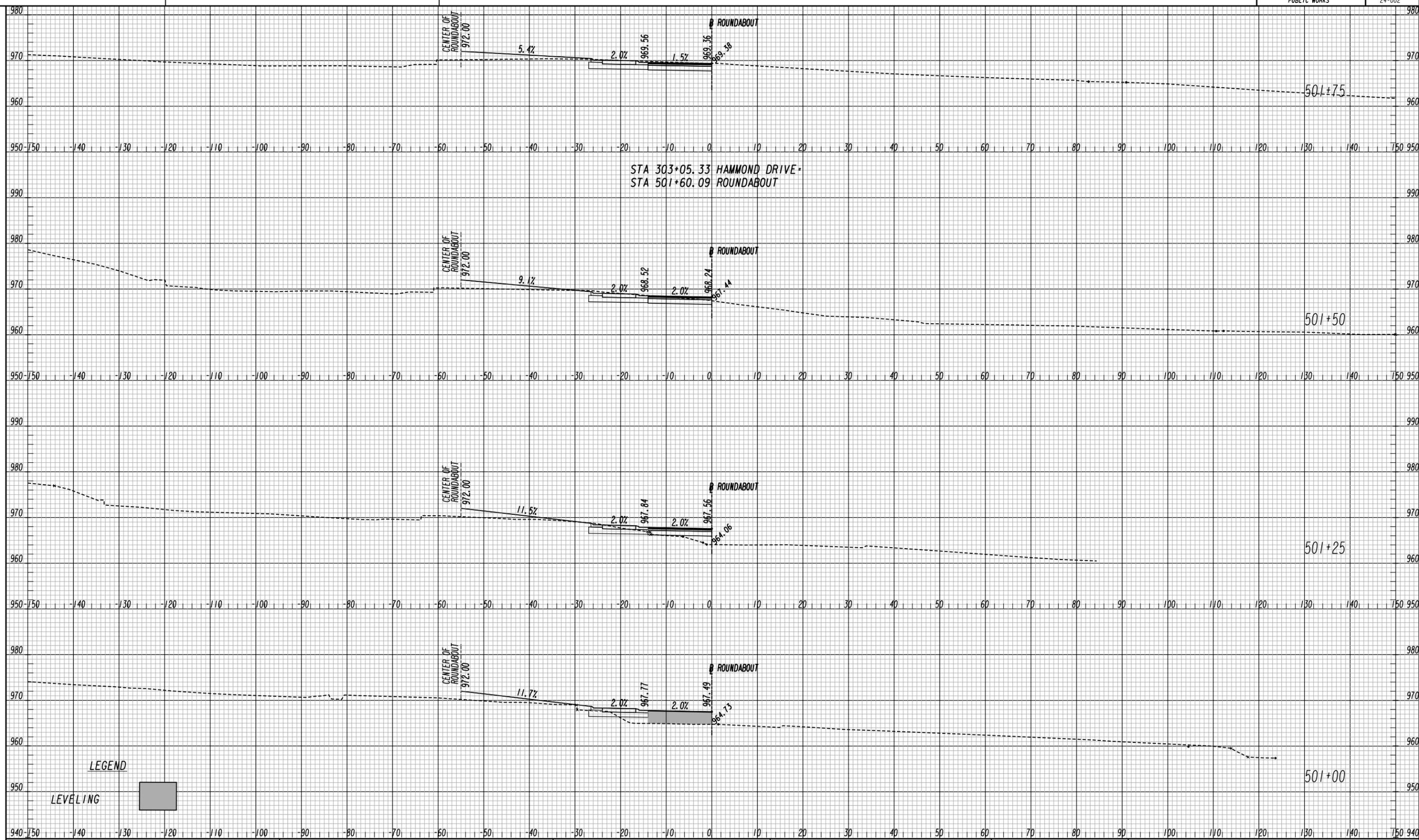


7/31/2015 SUXSEW



SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSS SECTIONS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0013	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



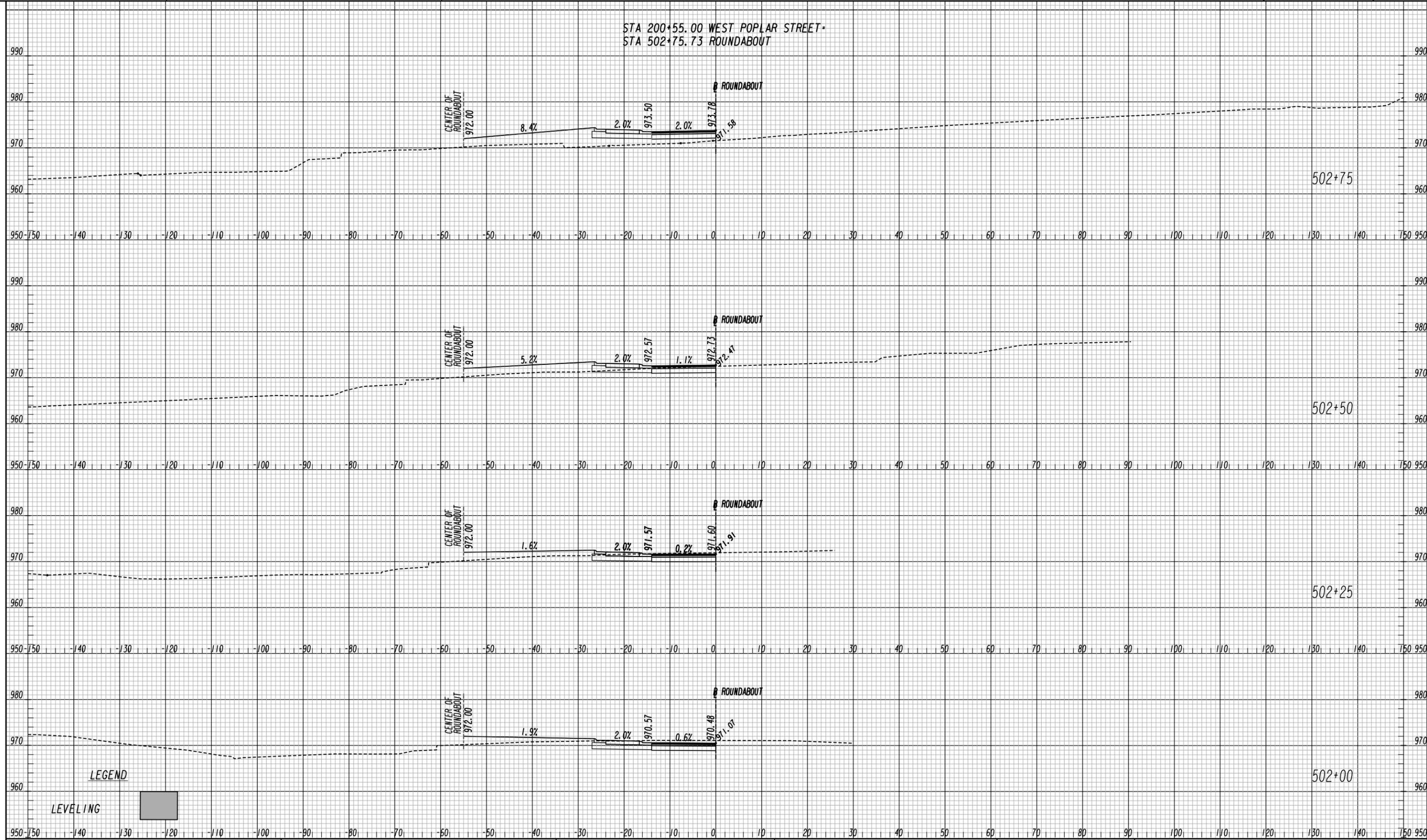
**H&L**  
A BCC COMPANY

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSS SECTIONS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STA 200+55.00 WEST POPLAR STREET+  
STA 502+75.73 ROUNDABOUT



LEGEND

LEVELING



**H&L**  
A BCC COMPANY

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

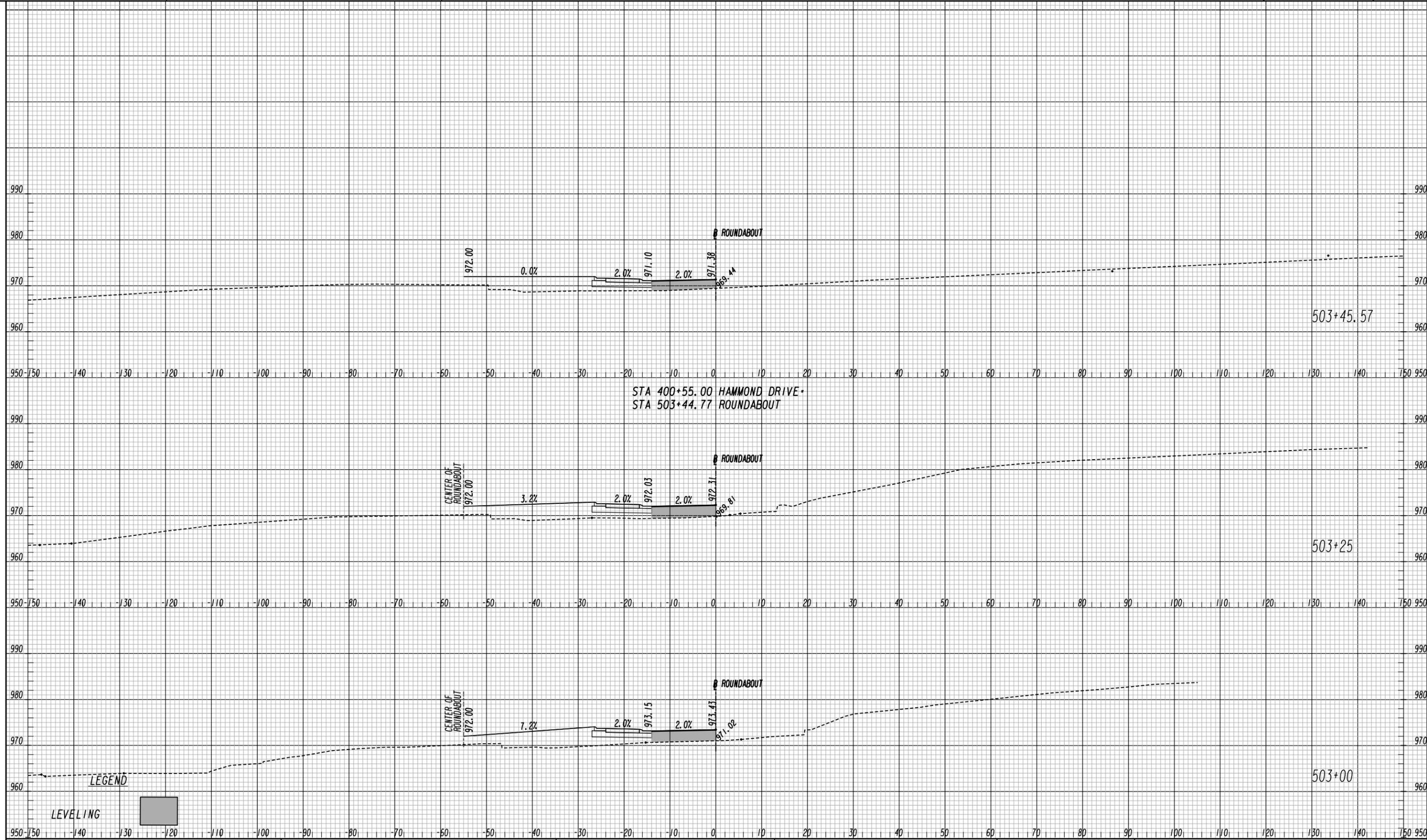
SCALE:  
1 INCH = 10 FEET VERT.  
1 INCH = 10 FEET HORIZ.

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

**CROSS SECTIONS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No. <b>23-0015</b>
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>CROSS SECTIONS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0016	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

UTILITY LINECODES

UTILITY SYMBOLS

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
O	~W~E~W~E	~W~X~E~W~X~E	~W~E~W~	ELECTRIC
V	~W~E~T~W~	~W~X~E~T~W~X~	~W~E~T~W~	ELECTRIC/TELECOMMUNICATIONS
E	~W~E~TV~W~	~W~X~E~TV~W~X~	~W~E~TV~W~	ELECTRIC/CABLE TV
R	~W~E~T~TV~W~	~W~X~E~T~TV~W~X~	~W~E~T~TV~W~	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
H	~W~GW~W~	~W~X~GW~W~X~	~W~GW~W~	GUY WIRE
E	~W~T~W~	~W~X~T~W~X~	~W~T~W~	TELECOMMUNICATIONS
A	~W~T~TV~W~	~W~X~T~TV~W~X~	~W~T~TV~W~	TELECOMMUNICATIONS/CABLE TV
D	~W~TV~W~	~W~X~TV~W~X~	~W~TV~W~	CABLE TV

	---E---	--X-E-X--	---E---	ELECTRIC
	---T---	--X-T-X--	---T---	TELECOMMUNICATIONS
	---TV---	--X-TV-X--	---TV---	CABLE TV
U	---W---	--X-W-X--	---W---	WATER
N	---**W---	--X-**W-X--	---**W---	WATER FOR LABELED PIPE SIZES
D	---NW---	--X-NW-X--	---NW---	NON-POTABLE WATER
E	---**NW---	--X-**NW-X--	---**NW---	NON-POTABLE WATER FOR LABELED PIPE SIZES
R	---STM---	--X-STM-X--	---STM---	STEAM
G	---**STM---	--X-**STM-X--	---**STM---	STEAM FOR LABELED PIPE SIZES
R	--->SS---	--X->SS-X--	--->SS---	SANITARY SEWER WITH FLOW DIRECTION
O	---Σ**SS---	--X-Σ**SS-X--	---Σ**SS---	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
U	--->SFM---	--X->SFM-X--	--->SFM---	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
N	---G---	--X-G-X--	---G---	GAS
D	---**G---	--X-**G-X--	---**G---	GAS FOR LABELED PIPE SIZES
	---P---	--X-P-X--	---P---	PETROLEUM
	---**P---	--X-**P-X--	---**P---	PETROLEUM FOR LABELED PIPE SIZES

EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY

9/8/2023 7:30:54 AM \$PRF8 J:\2019044\2019044\03\_DGN\2019044\_24-0000.dgn  
 USER:jkelly  
 7/31/2015 GPLN



Know what's below.  
Call before you dig.

UTILITY LEGEND

CITY OF GRIFFIN - PUBLIC WORKS

UTILITY PLANS

HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

REVISION DATES	

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0000
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

Curve\* 1  
PI Sta= 101+38.48  
N= 1180643.9910  
E= 2259417.5088  
DELTA= 23°33'18.8" (RT)  
D= 9°23'33.90"  
T= 127.19  
L= 250.78  
R= 610.00  
E= 13.12  
D.S.= 35 MPH

Curve\* 2  
PI Sta= 104+76.40  
N= 1180659.2837  
E= 2259758.6809  
DELTA= 15°19'45.3" (RT)  
D= 22°55'05.92"  
T= 33.64  
L= 66.89  
R= 250.00  
E= 2.25  
D.S.= 30 MPH

Curve\* 3  
PI Sta= 200+99.21  
N= 1180667.3743  
E= 2259947.5489  
DELTA= 15°38'05.8" (RT)  
D= 22°55'05.92"  
T= 34.32  
L= 68.22  
R= 250.00  
E= 2.35  
D.S.= 30 MPH

Curve\* 5  
PI Sta= 302+96.10  
N= 1180574.3290  
E= 2259842.0741  
DELTA= 18°52'52.4" (LT)  
D= 22°55'05.92"  
T= 41.57  
L= 82.38  
R= 250.00  
E= 3.43  
D.S.= 30 MPH

Curve\* 6 Start (ROUNDOUT)  
PC Sta= 500+00.00  
N= 1180692.9650  
E= 2259852.7984  
DELTA= 360°00'00.0" (LT)  
L= 345.58  
R= 55.00

BEGIN PROJECT  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT  
STA 102+50  
N 1180649.0263  
E 2259532.5119

BEGIN CONSTRUCTION  
WEST POPLAR STREET  
STA 102+63.00  
N 1180649.7280  
E 2259545.4972

EXISTING TO REMAIN:  
4" PLASTIC GAS MAIN  
NOP: 45 PSIG

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

ADJUST EXISTING  
WATER METER BOX TO  
PROPOSED GRADE  
STA. 102+93.38,  
O/S 27.45' RT

ADJUST EXISTING WM  
BOX TO PROPOSED GRADE  
STA. 104+01.93, O/S 24.88' RT  
ADJUST EXIST SSMH FRAME TO GRADE  
(REFER TO STANDARD NO. 700-6)  
STA. 105+13.61, 16.17' LT, TOP=968.50 (PROP)

NOTES:  
1. THE CONTRACTOR SHALL PROVIDE REMOVED FIRE HYDRANT, WATER METER, AND ALL RELATED COMPONENTS TO COGWW.  
2. COGWW SEWER CREW TO BE ON SITE WHEN MANHOLES ARE RAISED.  
3. THE NEW FIRE HYDRANT ASSEMBLY SHALL BE PROVIDED TO THE CONTRACTOR BY COGWW FOR INSTALLATION.  
4. ALL WATER METERS WITHIN THE PROPOSED IMPROVEMENTS TO BE RAISED TO PROPOSED GRADE.  
5. THE CONTRACTOR SHALL RECONNECT TO EXISTING CUSTOMER SERVICE LINE DOWNSTREAM OF THE ADJUSTED WATER METERS IF NECESSARY. RECONNECTION SHALL INCLUDE ANY NEW PIPING, FITTINGS, AND ACCESSORIES.

PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR & MAINT  
OF SLOPES & DRNG  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES

05  
LOREN GUILD  
AT&T  
AT-34T2B6-012  
(2)SR-5B02MT-048  
PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG 12" CI WATER MAIN  
INSTALL 12 IN X 6 IN TEE (REST.) W/  
6" GATE VALVE (REST.) STA.  
400+59.88, O/S 15.14' LT

402+00  
INSTALL 21 LF OF 6 IN DIP WATER MAIN  
INSTALL FH ASSEMBLY  
STA. 400+60.21, O/S 36.95' LT  
(SEE NOTE 3 THIS SHEET;  
REFER TO STANDARD NO. 500-1)

ADJUST EXISTING WATER METER  
BOX TO PROPOSED GRADE  
STA. 400+53.10, O/S 40.16' LT

RECONSTR DI AS MH  
ADJUST TO  
GRADE

CUT & CAP, TIE-INTO 4"  
PLASTIC GAS MAIN, NOP: 45  
PSIG, INSTALLED: 1997  
ABANDON:  
2" PLASTIC GAS MAIN  
INSTALLED: 1997  
PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN  
PROPOSED:  
160' X 2" PLASTIC GAS MAIN  
NOP: 45 PSIG  
AT&T, COG ELECTRIC, COG  
TELECOM, COMCAST

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN  
PROPOSED:  
160' X 2" PLASTIC GAS MAIN  
NOP: 45 PSIG  
AT&T, COG ELECTRIC, COG  
TELECOM, COMCAST

EXISTING TO REMAIN:  
2" PLASTIC GAS MAIN  
NOP: 45 PSIG  
NOTE:  
ENSURE PROP  
GAS MAIN  
INSTALLED  
REMOVE 3 FT BELOW  
EXIST PROP GRADE  
RECONSTR DI AS MH  
ADJUST TO GRADE

ADJUST EXISTING WATER VALVE  
COVER TO PROPOSED GRADE  
STA. 400+50.80, O/S 15.27' LT

COG ELECTRIC, COG TELECOM, AT&T,  
COMCAST  
AT&T, COG ELECTRIC, COG  
TELECOM, COMCAST

ADJUST EXIST WM  
BOX TO PROP GRADE  
STA. 201+80.62,  
O/S 21.16' RT

ADJUST EXIST SSMH  
FRAME TO PROPOSED GRADE  
STA. 200+23.75, O/S 2.37' LT  
(REFER TO STANDARD NO. 700-6)  
TOP=973.50 (PROPOSED)

TERMINATE WATER SERVICE AT THE TAP ON THE MAIN AND REMOVE  
EXISTING WATER METER BOX & ALL ACCESSORIES HOUSED WITHIN STA.  
200+19.69, O/S 4.81' RT (SEE NOTE 1 THIS SHEET)

SSMH  
TOP=970.06  
IN(0")=964.96  
IN(85")=963.26  
OUT=963.16  
TABLE=963.84

ADJUST EXISTING WATER VALVE  
COVER TO PROPOSED GRADE  
STA. 105+27.99, O/S 1.68' RT

ADJUST EXISTING WATER VALVE  
COVER TO PROPOSED GRADE  
STA. 105+27.99, O/S 13.42' LT

ADJUST EXISTING WATER VALVE  
COVER TO PROPOSED GRADE  
STA. 105+27.99, O/S 13.42' LT

07  
UNITED BANK  
COG ELECTRIC, COG  
TELECOM, AT&T, COMCAST

09  
ANDY MARTIN JR

ADJUST EXISTING WATER METER  
BOX TO PROPOSED GRADE  
STA. 202+03.73, O/S 28.60' LT  
PROPOSED:  
210' X 4" PLASTIC GAS MAIN  
NOP: 45 PSIG  
CUT & CAP  
TIE-INTO 4" PLASTIC GAS MAIN  
NOP: 45 PSIG  
INSTALLED: 1999

EXISTING TO REMAIN:  
4" PLASTIC GAS MAIN  
NOP: 45 PSIG

END CONSTRUCTION  
WEST POPLAR STREET  
STA 202+25.00  
N 1180670.9176  
E 2260073.7159

END PROJECT  
HAMMOND DRIVE AT  
WEST POPLAR STREET  
INTERSECTION  
IMPROVEMENT  
STA 202+50  
N 1180671.6194  
E 2260098.7061

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG 6" CI WATER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

LEGEND  
OBLITERATE, GRADE TO DRAIN  
AND GRASS

BEGIN LIMIT OF ACCESS.....BLA  
END LIMIT OF ACCESS.....ELA  
REQ'D LIMIT OF ACCESS  
REQ'D LIMIT OF ACCESS & R/W  
ORANGE BARRIER FENCE  
ESA - ENV. SENSITIVE AREA  
(SEE ERIT TABLE)

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

SCALE IN FEET  
0 20 40 80

REVISION DATES	

CITY OF GRIFFIN - PUBLIC WORKS			
UTILITY PLANS			
HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Curve # 4  
 PI Sta= 301+69.75  
 N= 1180454.4678  
 E= 2259799.3422  
 DELTA= 20°02'58.9" (RT)  
 D= 22°55'05.92"  
 T= 44.19  
 L= 87.48  
 R= 250.00  
 E= 3.88  
 D.S. = 30 MPH

03  
 SOUKIM OUTHAVONG

08  
 YU HWA WANG

ANN MAYS  
 DEASON

02  
 STEPHANIE VILLIER

06  
 OTIS & LINDA NEWTON

12  
 THOMAS M DANIEL  
 & MALINDA C JENKINS

11  
 DASH CAPITAL LLC

THOMAS M DANIEL  
 & MALINDA C JENKINS

10  
 CLARENCE HARVEY  
 & FAITHIA PUCKETT

THOMAS M DANIEL  
 & MALINDA C JENKINS

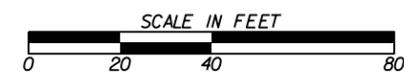
CHARLES F III &  
 KAREN SMITH

LEGEND  
 OBLITERATE, GRADE TO DRAIN  
 AND GRASS

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT  
 OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

**H&L**  
 Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



REVISION DATES	

CITY OF GRIFFIN - PUBLIC WORKS			
UTILITY PLANS			
HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Curve\* 1  
PI Sta= 101+38.48  
N= 1180643.9910  
E= 2259417.5088  
DELTA= 23°33'18.8" (RT)  
D= 9°23'33.90"  
T= 127.19  
L= 250.78  
R= 610.00  
E= 13.12  
D.S.= 35 MPH

Curve\* 2  
PI Sta= 104+76.40  
N= 1180659.2837  
E= 2259758.6809  
DELTA= 15°19'45.3" (RT)  
D= 22°55'05.92"  
T= 33.64  
L= 66.89  
R= 250.00  
E= 2.25  
D.S.= 30 MPH

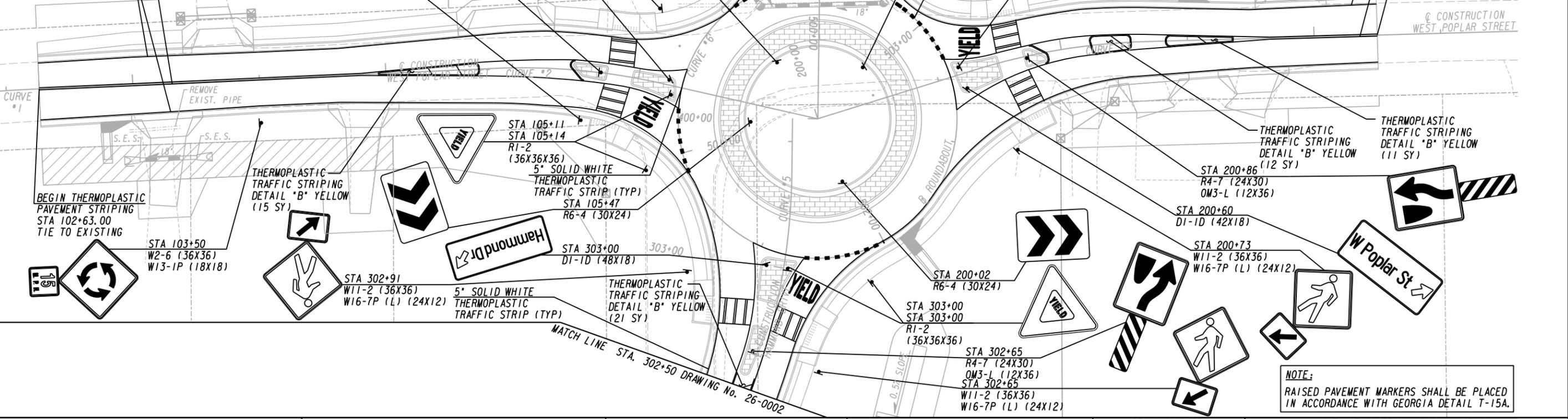
Curve\* 3  
PI Sta= 200+99.21  
N= 1180667.3743  
E= 2259947.5489  
DELTA= 15°38'05.8" (RT)  
D= 22°55'05.92"  
T= 34.32  
L= 68.22  
R= 250.00  
E= 2.35  
D.S.= 30 MPH

Curve\* 5  
PI Sta= 302+96.10  
N= 1180574.3290  
E= 2259842.0741  
DELTA= 18°52'52.4" (LT)  
D= 22°55'05.92"  
T= 41.57  
L= 82.38  
R= 250.00  
E= 3.43  
D.S.= 30 MPH

Curve\* 6 Start (ROUNDBOUT)  
PC Sta 500+00.00  
N= 1180692.9650  
E= 2259852.7984  
L= 345.58  
R= 55.00  
DELTA= 360°00'00.0" (LT)

5" SOLID DOUBLE YELLOW THERMOPLASTIC TRAFFIC STRIP (TYP)

5" SOLID WHITE THERMOPLASTIC TRAFFIC STRIP (TYP)

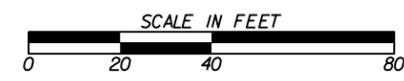


NOTE:  
RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH GEORGIA DETAIL T-15A.

PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES

-----e-----  
BEGIN LIMIT OF ACCESS.....BLA  
END LIMIT OF ACCESS.....ELA  
REQ'D LIMIT OF ACCESS  
REQ'D LIMIT OF ACCESS & R/W  
ORANGE BARRIER FENCE  
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

**H&L**  
A BCC COMPANY  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		SIGNING AND MARKING PLANS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Curve # 4  
PI Sta= 301+69.75  
N= 1180454.4678  
E= 2259799.3422  
DELTA= 20°02'58.9" (RT)  
D= 22°55'05.92"  
T= 44.19  
L= 87.48  
R= 250.00  
E= 3.88  
D.S. = 30 MPH

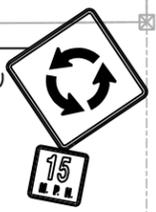
THERMOPLASTIC  
TRAFFIC STRIPING  
DETAIL "B" YELLOW  
(21 SY)

MATCH LINE STA. 302+50 DRAWING No. 26-0001

5" SOLID WHITE  
THERMOPLASTIC  
TRAFFIC STRIP (TYP)

THERMOPLASTIC  
TRAFFIC STRIPING  
DETAIL "B" YELLOW  
(26 SY)

STA 301+75  
W2-6 (36X36)  
W13-1P (18X18)

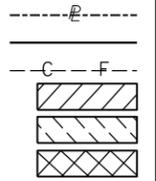


BEGIN THERMOPLASTIC  
PAVEMENT STRIPING  
STA 300+15.59  
TIE TO EXISTING

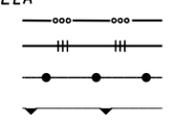
5" SOLID DOUBLE  
YELLOW  
THERMOPLASTIC  
TRAFFIC STRIP (TYP)

**NOTE:**  
RAISED PAVEMENT MARKERS SHALL BE PLACED  
IN ACCORDANCE WITH GEORGIA DETAIL T-15A.

PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR & MAINT  
OF SLOPES & DRNG  
EASEMENT FOR CONSTR OF SLOPES  
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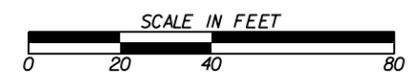


BEGIN LIMIT OF ACCESS.....BLA  
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REQ'D LIMIT OF ACCESS  
REQ'D LIMIT OF ACCESS & R/W  
ORANGE BARRIER FENCE  
ESA - ENV. SENSITIVE AREA  
(SEE ERIT TABLE)

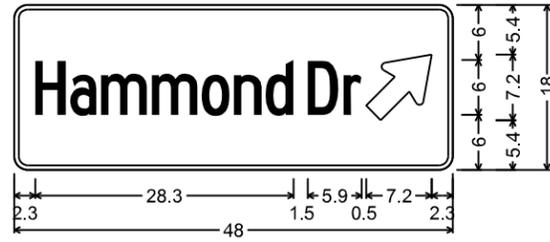


**H&L**  
A BCC COMPANY

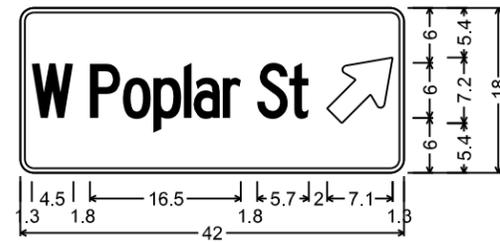
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>SIGNING AND MARKING PLANS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



STA 303+00  
STA 400+60  
D1-1d\_VARx18;  
1.5" Radius, 0.5" Border, White on, Green;  
"Hammond" C 2K " " D 2K "Dr", C 2K 50% spacing;  
Standard Arrow Custom 9.0" X 6.1" 45';



STA 105+12  
STA 200+60  
D1-1d\_VARx18;  
1.5" Radius, 0.5" Border, White on, Green;  
"W Poplar St", C 2K 30% spacing;  
Standard Arrow Custom 9.0" X 6.1" 45';

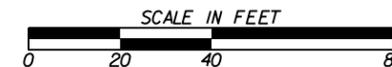
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REVISION DATES

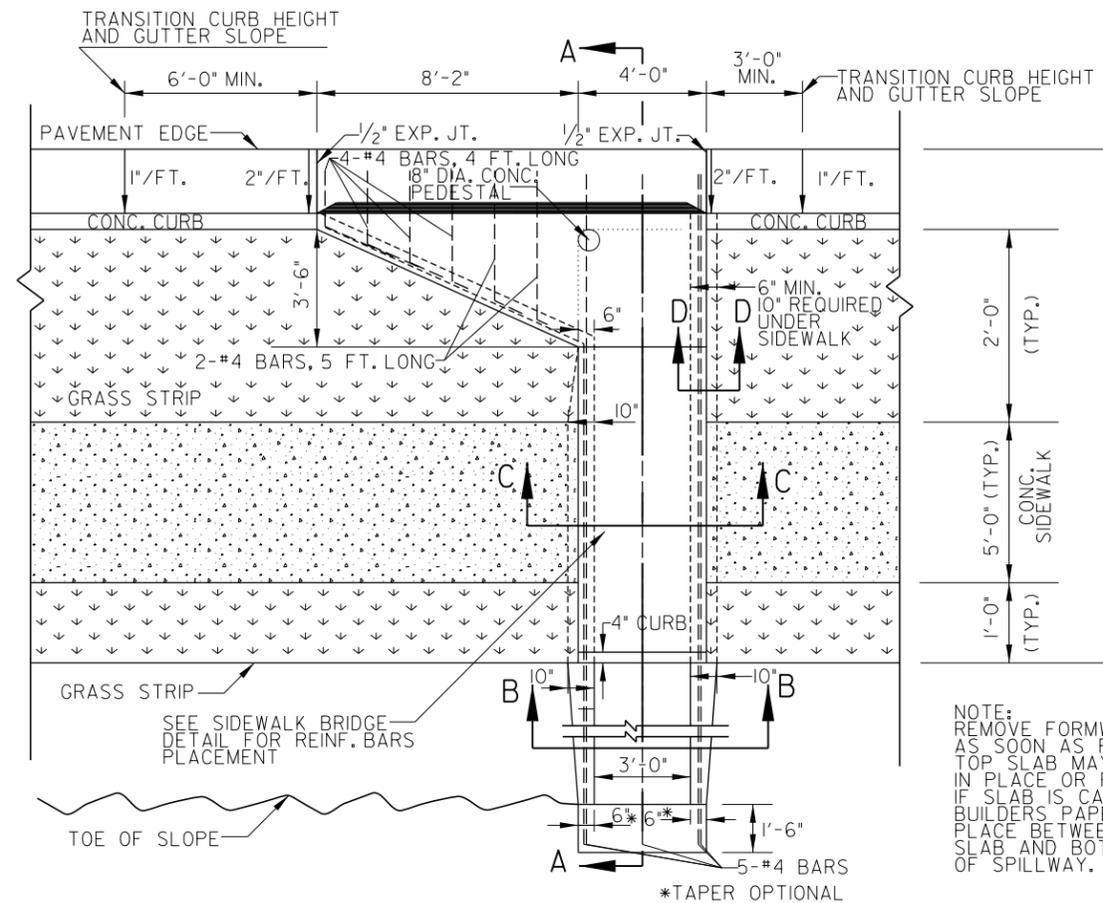
NO.	DATE	DESCRIPTION

CITY OF GRIFFIN - PUBLIC WORKS

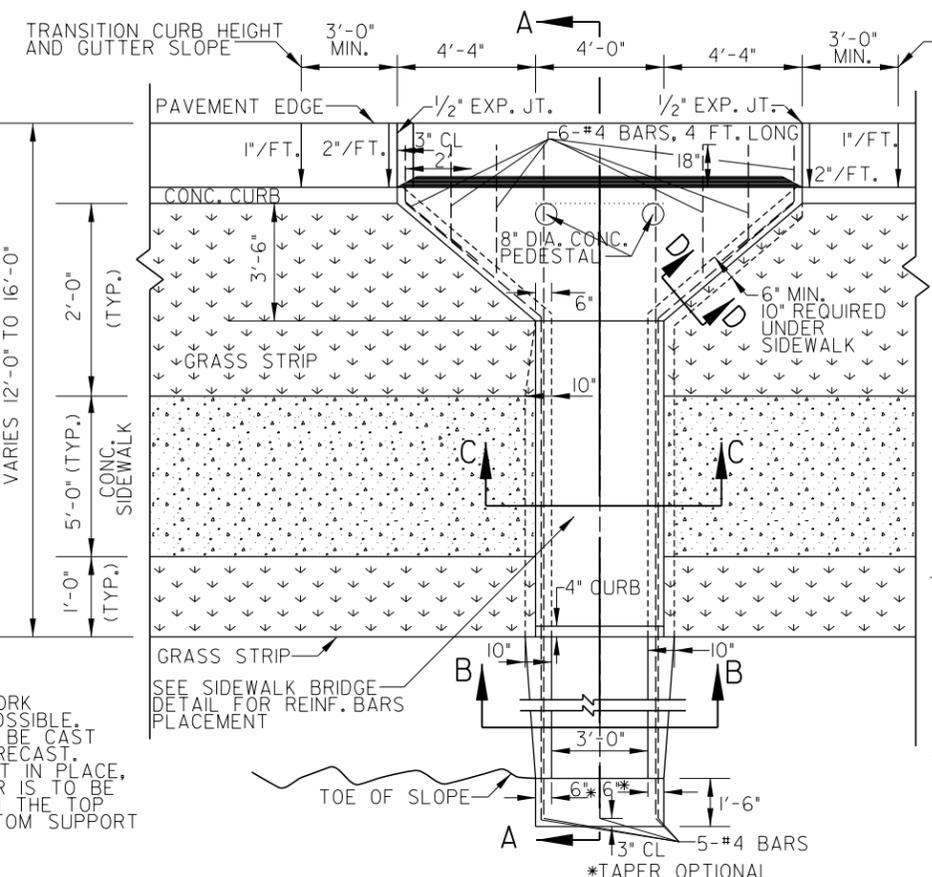
**SIGNING AND MARKING PLANS**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0003
CORRECTED:	DATE:	
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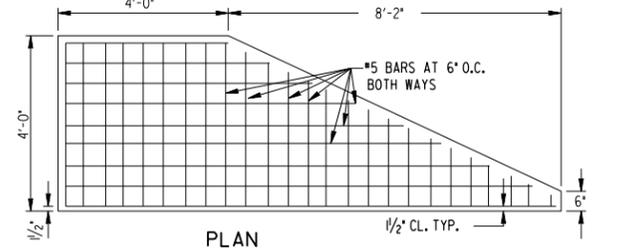
### SPECIAL DESIGN SPILLWAY



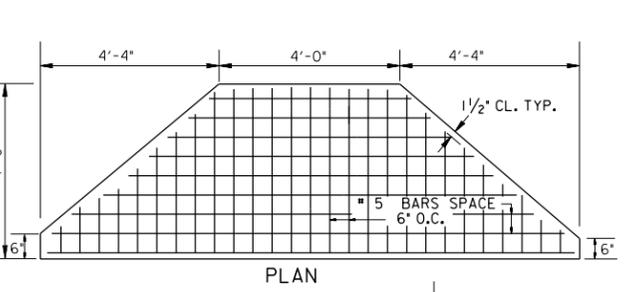
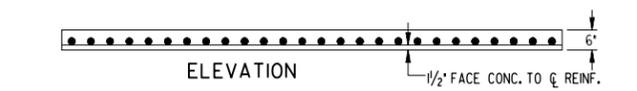
### SPECIAL DESIGN SPILLWAY LOW POINT



### DETAIL OF TOP REINFORCED CONCRETE SLAB



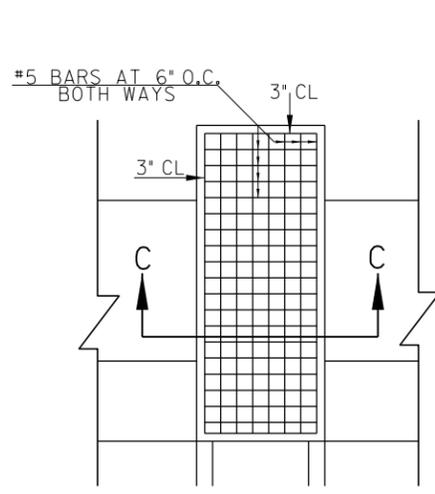
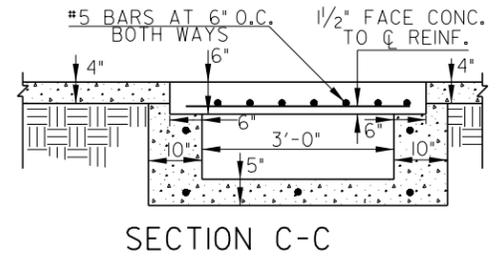
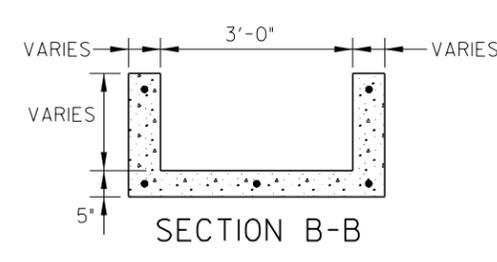
NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.



NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

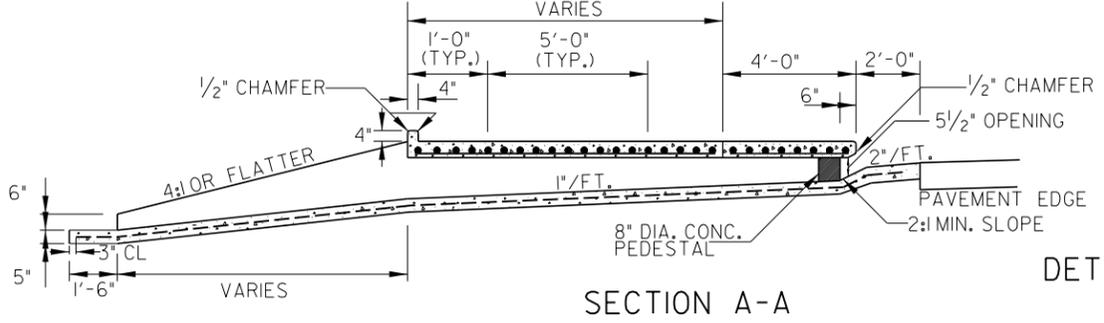
NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

NOTE: REMOVE FORMWORK AS SOON AS POSSIBLE. TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE TOP SLAB AND BOTTOM SUPPORT OF SPILLWAY.



### SIDWALK ADJACENT TO SPILLWAY SECTION D-D

### GRASS ADJACENT TO SPILLWAY SECTION D-D



### DETAIL OF SIDEWALK BRIDGE REINFORCED CONCRETE DETAIL

- GENERAL NOTE
- SEE GEORGIA STANDARD I033D AND I034D FOR ADDITIONAL INFORMATION ON CATCH BASIN TOP AND FORMING THE TRANSITION OF THE GUTTER.
  - CAST IRON MANHOLE RING AND COVER NOT REQUIRED.
  - CLASS "A" CONCRETE REQUIRED FOR ALL REINFORCED TOP SLABS. BOTTOM SECTION MAY BE CLASS "B" OR CLASS "A".

MEASUREMENT: SPECIAL DESIGN SPILLWAY UNDER SIDEWALK WILL BE MEASURED BY THE UNIT.

PAYMENT: SPECIAL DESIGN SPILLWAY UNDER SIDEWALK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH.

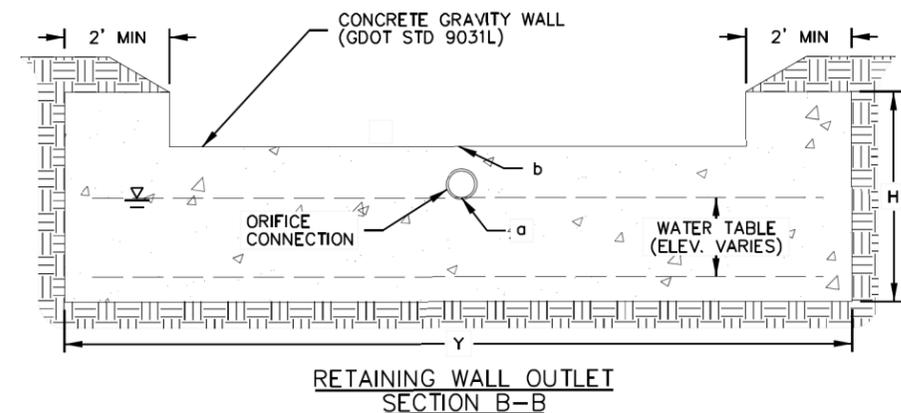
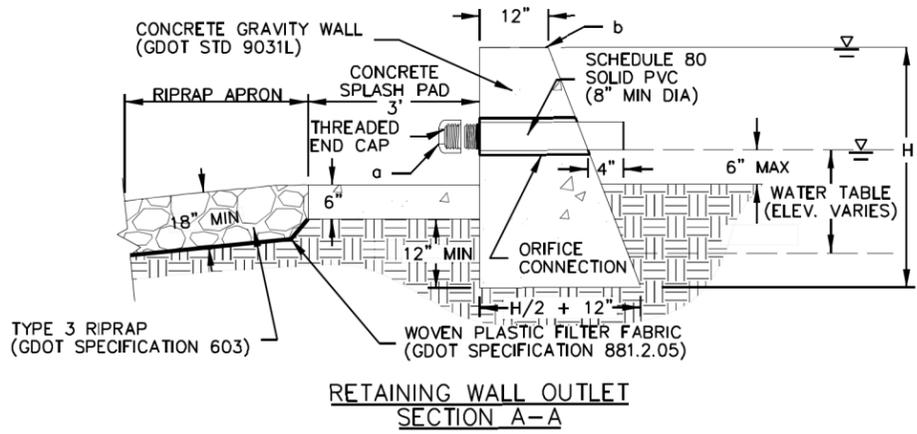
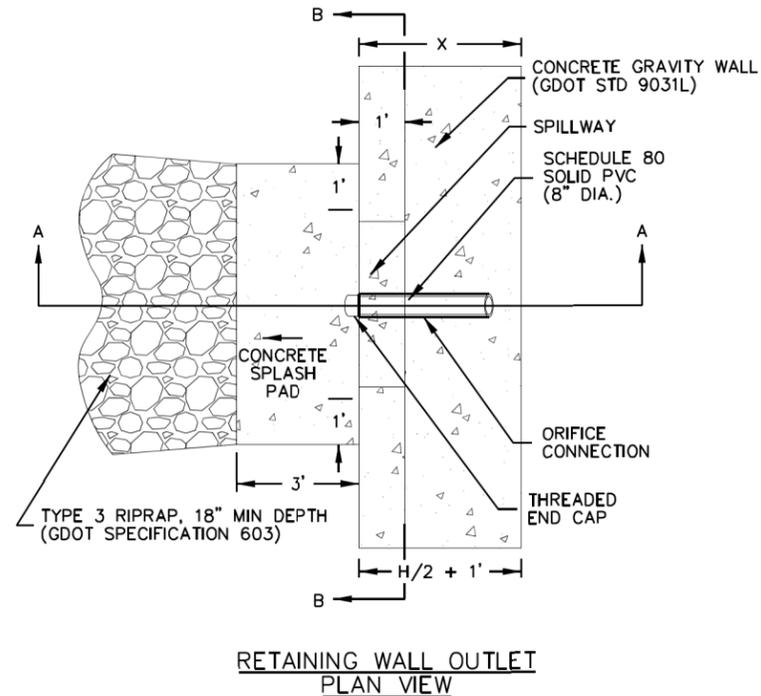
PAYMENT WILL BE MADE UNDER:  
ITEM NO. 441, CONC. SPILLWAY, SPEC DES.

### REVISION DATES


### CITY OF GRIFFIN - PUBLIC WORKS

### SPECIAL CONSTRUCTION DETAIL HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

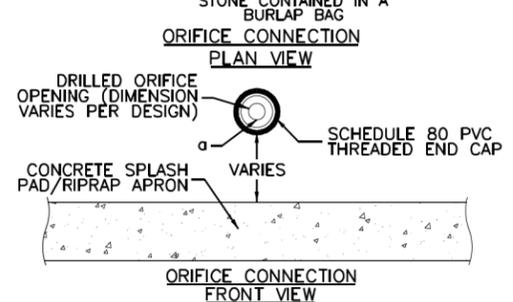
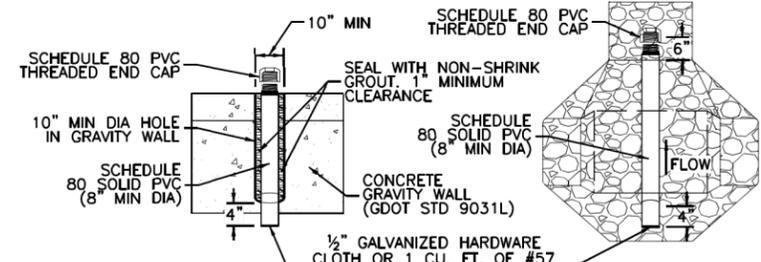
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



OPTION A

NOTE:

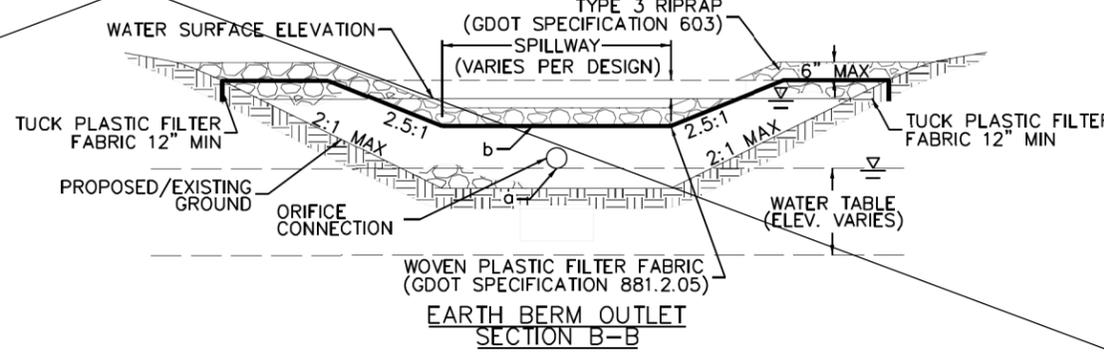
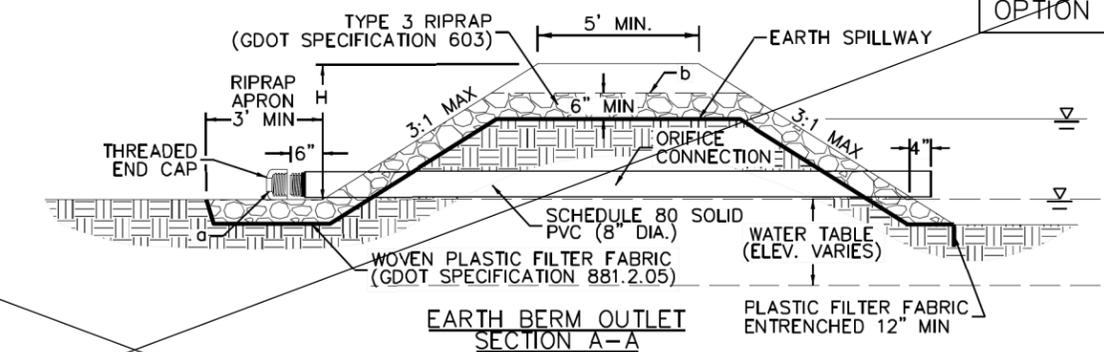
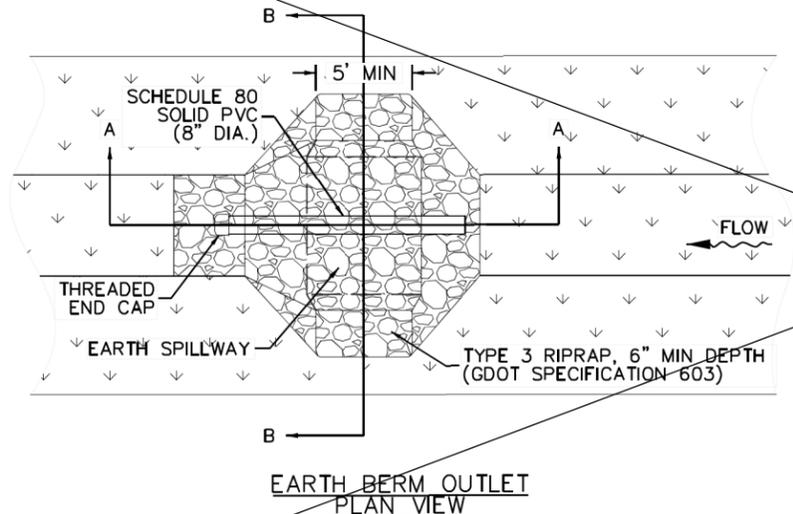
ALL JOINTS AND CONNECTIONS SHALL BE WATERTIGHT AND HAVE ELASTOMERIC SEALS THAT MEET THE REQUIREMENTS OF ASTM F 477.



SYMBOL	DEFINITION
a	Water Quality Orifice Invert Elevation
b	Overbank Flood Protection Invert Elevation
X	Outlet Structure Width
Y	Outlet Structure Length
H	Outlet Structure Height

GENERAL NOTES:

- IF POST-CONSTRUCTION BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE ENGINEER. MODIFICATIONS MUST BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
- EARTHEN CHECK DAMS AND/OR ENHANCED SWALE OUTLET STRUCTURES SHALL NOT BE PLACED IN MEDIANS. ADDITIONALLY, EARTH CHECK DAMS AND/OR ENHANCED SWALE OUTLET STRUCTURES SHALL NOT BE PLACED IN THE CLEAR ZONE. GUARDRAIL SHALL NOT BE PLACED SOLELY FOR THE PURPOSE OF PLACING ANY COMBINATION OF EARTH CHECK DAMS AND/OR ENHANCED SWALE OUTLET STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE AS-BUILT DATA TO THE CONSTRUCTION PROJECT ENGINEER/INSPECTOR.
- ALL ITEMS AND GRADING ASSOCIATED WITH STORMWATER DETENTION POND SHALL BE PAID FOR UNDER GRADING COMPLETE WITH THE EXCEPTION OF THE OUTLET STRUCTURE, WHICH SHALL BE PAID FOR UNDER CLASS B CONC. RETAINING WALL.



OPTION B

OUTLET STRUCTURE DESIGN DATA						
X	Y	H	Event	INVERT ELEV.	ORIFICE DIA. (IN)	WEIR LEN. (FT)
2.75'	21'	3.5'	a	964.98	8"	N/A
			b	965.98	N/A	17'
SPLASH PAD ELEV. = 964.98				TOP OF BERM / WALL ELEV. = 966.98		
BOTTOM OF WALL ELEV. = 963.48				TOP OF BERM WIDTH = N/A		
25-YR, 24-HR WSE = 965.98						
OUTLET STRUCTURE AS-BUILT DATA						
X	Y	H	Event	INVERT ELEV.	ORIFICE DIA. (IN)	WEIR LEN. (FT)
			a			N/A
			b		N/A	
SPLASH PAD ELEV. =				TOP OF BERM / WALL ELEV. =		
BOTTOM OF WALL ELEV. =				TOP OF BERM WIDTH =		

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS

SPECIAL CONSTRUCTION DETAIL  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	38-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

HEATH & LINEBACK  
2390 CANTON ROAD | BUILDING 200  
MARIETTA, GEORGIA 30066  
770.424.1668  
WWW.HEATHANDLINEBACK.COM

**GENERAL NOTES**

1. ALL WORK PERFORMED SHALL BE IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF GRIFFIN, AND ALL OTHER AGENCIES WHICH MAY EXERT JURISDICTION. WHEN CONFLICTS OCCUR BETWEEN REQUIREMENTS SHOWN WITHIN THE CONTRACT DOCUMENTS AND REGULATORY CRITERIA, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL. THE CONTRACTOR SHALL VERBALLY BRING ANY CONFLICT TO THE ATTENTION OF THE CITY & DESIGN ENGINEER IMMEDIATELY, FOLLOWED BY AN OFFICIAL WRITTEN NOTIFICATION WITHIN 24 HOURS.
2. SOME OF THE EXISTING UNDERGROUND FACILITIES HAVE NOT BEEN PHYSICALLY LOCATED BY THE ENGINEER. INFORMATION ABOUT THE EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. DETERMINING AND VERIFYING THE ACTUAL LOCATION AND ELEVATIONS OF ANY EXISTING UTILITIES IS THE CONTRACTOR RESPONSIBILITY. TWO WEEKS PRIOR TO ANY EXCAVATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT GEORGIA 811 IN ORDER TO VERIFY THE VARIOUS UTILITY COMPANIES AND OWNERS WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA AND TO PERFORM THE NECESSARY "SOFT DIGS" AND LOCATE ALL BURIED UTILITIES. (PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION).
3. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO PHYSICALLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER AND DESIGN ENGINEER ASSUME NO LIABILITY FOR ANY DAMAGE SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK INVOLVING EXISTING UTILITIES AND SHALL BE COMPLETE AS REQUIRED TO MINIMIZE INTERRUPTIONS OF OWNER AND UTILITY PROVIDER AT LEAST 48 HOURS IN ADVANCE.
4. ALL WORK TO REPAIR/RESTORE EXISTING UTILITY SERVICE THAT IS DAMAGED SHALL BE PERFORMED AS REQUIRED BY THE CONTRACTOR, WHO IS RESPONSIBLE TO KEEP ON SITE MATERIAL TO REPAIR WITHIN 24 HOURS ANY DAMAGE TO EXISTING UTILITIES TO MINIMIZE ANY SERVICE INTERRUPTION TO THE COMMUNITY. IF IT IS NECESSARY TO SHORE, BRACE, OR OTHERWISE RELOCATE A UTILITY TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY COMPANY OR DEPARTMENT AFFECTED AND OBTAIN THEIR PERMISSION REGARDING THE METHOD TO USE FOR SUCH WORK. ALL COST RELATED TO SERVICE, MAINTENANCE, INTERRUPTION, REPAIR, RELOCATION AND RESTORATION ARE TO BE INCLUDED IN THE CONTRACTOR'S BID. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION SHALL BE PAID.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING TO INCLUDE HORIZONTAL AND VERTICAL CONTROL FOR ALIGNMENT OF WORK. ALL SURVEY WORK ESTABLISHING THE HORIZONTAL AND VERTICAL CONTROL SHALL BE UNDER THE GUIDANCE AND DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR AND MAPPER, LICENSED IN THE STATE OF GEORGIA. BASELINES ARE REFERENCED TO THE CENTER OF EXISTING ROAD. ALL CONTROL FIELD NOTES TO BE SUBMITTED TO THE CITY PRIOR TO COMMENCEMENT OF EACH PHASE.
6. THE BASELINE/CENTERLINE OF CONSTRUCTION MUST BE MARKED IN THE FIELD AND STATIONS PAINTED TO ALLOW INSPECTORS TO IDENTIFY THE EXTENT AND LOCATION OF ANY WORK OR INSTALLATION.
7. ALL TREES, SHRUBS, ETC., OUTSIDE CONSTRUCTION LIMITS AND/OR UTILITY EASEMENT SHALL BE PROTECTED WHERE NEEDED UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO TREES SHALL BE DESTROYED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED TREES WITH CITY OF GRIFFIN APPROVED TREES AT NO COST TO THE OWNER. PROTECTION OF OTHER FLORA AND FAUNA ON THE CONSTRUCTION SITE WILL BE AT THE COST AND THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CITY OF GRIFFIN CODES REGARDING TREES AND LANDSCAPING AND FOR ALL REQUIRED PERMITS.
8. NO TREES MAY BE TRIMMED, RELOCATED, REMOVED OR OTHERWISE NEGATIVELY IMPACTED BY THE WORK PROPOSED WITHOUT FIRST OBTAINING THE APPROPRIATE TREE PERMIT FROM THE CITY OF GRIFFIN.
9. RESTORE ALL PROPERTY AFFECTED AND/OR DAMAGED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE DRAWINGS. RESTORATION WORK INCLUDES, BUT IS NOT LIMITED TO PAVEMENT, BASE, SUBGRADE, CONCRETE CURBS, SIDEWALKS, STORM WATER PIPE, IRRIGATION SYSTEM, ETC. IF ADDITIONAL TOPOGRAPHIC OR ANY OTHER INFORMATION IS NECESSARY FOR THE CONTRACTOR TO RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, THE ACQUISITION OF SUCH ADDITIONAL INFORMATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY WITH COST INCLUDED IN BID PRICE.
10. RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, UNLESS CONTRACTOR IS RESPONSIBLE FOR OBTAINING OFFSITE AREAS FOR STORAGE OF MATERIALS AND EQUIPMENT. CONTRACTOR MATERIALS AND EQUIPMENT MAY BE STORED IN AN AVAILABLE AREA DESIGNATED (BY THE CITY) FOR THIS. ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND SECURED INSIDE A LOCKED FENCE SUPPLIED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE FENCE AND RESTORE STORAGE AREA WHEN COMPLETE. SECURITY OF CONSTRUCTION EQUIPMENT AND MATERIALS IS RESPONSIBILITY OF THE CONTRACTOR.
11. OSHA'S EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650-652 SUBPART P, ARE CONSIDERED AS COMPLEMENTARY TO THESE CONTRACT DOCUMENTS. IF THERE IS ANY DUPLICATION, REDUNDANCY OR CONFLICT BETWEEN THE STIPULATIONS OF THESE CONTRACT DOCUMENTS AND THOSE STANDARDS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
12. WHERE CONNECTION IS TO BE MADE IN THE FIELD TO AN EXISTING PIPE THE CONTRACTOR SHALL EXCAVATE THE AREA TO VERIFY THE TYPE, SIZE, AND CONDITION OF THE PIPE AND OBTAIN ENGINEER AND OWNER APPROVAL OF THE PROPOSED METHOD OF CONNECTION PRIOR TO INSTALLING THE NEW PIPELINE OR ORDERING MATERIAL.
13. UNDER NO CIRCUMSTANCE SHALL PIPE BE LAID IN A TRENCH WHERE STANDING WATER IS PRESENT OR WHERE THE GROUNDWATER TABLE IS LESS THAN 12-INCHES BELOW THE BOTTOM OF THE TRENCH. A DEWATERING SYSTEM SHALL BE UTILIZED BY THE CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTABLE PRACTICES AND SHALL BE CAPABLE OF LOWERING THE GROUNDWATER TABLE ELEVATION IN ADVANCE OF EXCAVATION TO KEEP TRENCH BOTTOM AND SIDES FIRM AND DRY. (12-INCH MINIMUM BELOW THE TRENCH BOTTOM). NO POLLUTED WATER SHALL BE DISCHARGED INTO SANITARY SEWER, STORM SYSTEM, OR BODIES OF WATER. DEWATERING SHALL BE INCLUDED IN CONTRACTOR'S BASE BID PRICE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL DEWATERING PERMITS IF DEWATERING IS PERFORMED.
14. USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF THE EXCAVATIONS AND TO PROTECT ADJACENT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES.
15. BACKFILL ALL TRENCHES AT THE END OF EACH DAY'S WORK. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT UNLESS OTHERWISE APPROVED BY CITY INSPECTOR. THE ENDS OF ALL PIPE SHALL BE PLUGGED AT THE CLOSE OF EACH DAY'S WORK.
16. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF A PLAN FOR VEHICULAR AND PEDESTRIAN SAFETY TO THE CITY OF GRIFFIN. THE PLAN SHALL INCLUDE TEMPORARY FENCING TO PROTECT AND SECURE THE WORK AREA, TEMPORARY SIDEWALKS AS REQUIRED FOR PEDESTRIAN TRAFFIC AND SAFETY, AND VEHICULAR AND PEDESTRIAN WARNING AND SAFETY SIGNS AS REQUIRED. ALL NECESSARY APPROVALS AND PERMITS SHALL BE OBTAINED PRIOR INITIATING CONSTRUCTION ACTIVITIES.

17. THE REFERENCE DATUM USED FOR VERTICAL ELEVATIONS IS THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD 1988) UNLESS OTHERWISE NOTED.
18. FOR CHANGES IN THE WORK, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE REVISIONS PRIOR TO ANY INSPECTIONS BY THE CITY.
19. ALL BURIED WATER SERVICE PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING BLUE AS PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90° INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT USED TO STRIPE.
20. RESTORE EXISTING VALVES AND METER BOXES AT PROPOSED CONNECTIONS TO CITY STANDARDS, FLUSH WITH SURROUNDING PAVEMENT. ALL VALVES AND METER BOXES ARE NOT TO BE COVERED DURING THE MILLING AND RESURFACING OPERATIONS.
21. SERVICE LINE TO WATER METER SHALL BE ONE-SIZE LARGER THAN METER, EXCEPT FOR A 2-INCH METER SHALL HAVE A 2-INCH SERVICE LINE.
22. WATER SERVICE CASINGS TO BE TWO (2) TIMES GREATER THAN SERVICE LINE AND EXTEND 2-FEET BEYOND THE RIGHT OF WAY, PAVEMENT EDGE, BACK OF CURB AND/OR BACK OF SIDEWALK, WHICHEVER IS FARTHEST.
23. WATER PUMPED FROM THE TRENCH OR OTHER EXCAVATION SHALL BE DISPOSED OF IN STORM SEWERS HAVING ADEQUATE CAPACITY, CANALS OR SUITABLE DISPOSAL PITS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS REQUIRED TO DISCHARGE THE WATER AND SHALL PROTECT WATERWAYS FROM TURBIDITY DURING THE DEWATERING OPERATION. IN AREAS WHERE ADEQUATE DISPOSAL SITES ARE NOT AVAILABLE, PARTIALLY BACKFILLED TRENCHES MAY BE USED FOR WATER DISPOSAL ONLY WHEN THE CONTRACTOR'S PLAN FOR TRENCH DISPOSAL IS APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR'S PLAN SHALL INCLUDE TEMPORARY CULVERTS, BARRICADES AND OTHER PROTECTIVE MEASURES TO PREVENT DAMAGE TO PROPERTY OR INJURY TO ANY PERSON OR PERSONS. NO FLOODING OF STREETS, ROADWAYS, DRIVEWAYS OR PRIVATE PROPERTY WILL BE PERMITTED. ENGINES DRIVING DEWATERING PUMPS SHALL BE EQUIPPED WITH CRITICAL GRADE MUFFLERS.

**WATER NOTES**

1. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF GRIFFIN, THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION, THE GEORGIA DEPARTMENT OF TRANSPORTATION, AND ANY OTHER AGENCY HAVING JURISDICTION WITHIN THE PROJECT AREA.
2. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
3. RESTORE EXISTING VALVES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. WATER MAINS AND WATER SERVICE LINES SHALL BE LAID AT LEAST MAINTAIN MINIMUM VERTICAL SEPARATION FOR UTILITY CROSSINGS - 18-INCHES FOR SEWER CROSSINGS AND 12-INCHES FOR ALL OTHERS (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE - ACCOUNT FOR WALL THICKNESS OF ALL PIPES).
5. PARALLEL WATER MAIN INSTALLATION - MAINTAIN MINIMUM HORIZONTAL SEPARATION OF 10-FEET BETWEEN WATER MAIN OR WATER SERVICE LINE AND SANITARY SEWER MAINS, STORM SEWER, SEPTIC TANK, SUBSOIL TREATMENT SYSTEM OR SEWER MANHOLE. SEPARATION DISTANCE SHALL BE MEASURED OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.
6. PARALLEL WATER MAIN INSTALLATION - WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10- FEET, THE WATER MAIN MAY BE LAID CLOSER TO A SEWER (ON A CASE BY CASE BASIS) PROVIDED THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER. IT IS ADVISED THAT THE SEWER BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
7. WATER MAIN AND WATER SERVICE LINE CROSSING HOUSE SEWERS, STORM SEWERS, OR SANITARY SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
8. WHEN LOCAL CONDITIONS PREVENT A VERTICAL SEPARATION OF 18-INCHES, THE SEWER PASSING OVER OR UNDER WATER MAIN SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
9. WHEN WATER MAIN AND WATER SERVICE LINES CROSS UNDER SEWERS, ADDITIONAL MEASURES SHALL BE TAKEN BY PROVIDING:
  - 9.1. A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE BOTTOM OF THE SEWER AND THE TOP OF THE WATER MAIN
  - 9.2. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS
  - 9.3. THAT THE LENGTH OF THE WATER PIPE BE CENTERED AT THE TOP OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER AND
  - 9.4. BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF WATER MAIN MATERIALS EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10- FEET SEPARATES THE TWO PIPES AND SUBJECTED TO HYDROSTATIC TESTS. OTHER OPTIONS THAT ARE ACCEPTABLE INCLUDE: ENCASEMENT OF THE WATER MAIN OR SEWER IN A CARRIER PIPE CONSTRUCTED OF WATER MAIN MATERIALS. EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10- FEET SEPARATES THE TWO PIPES OR THE SEWER HAS A STRUCTURAL LINING THAT MEETS ASTM F1216 EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10- FEET SEPARATES THE TWO PIPES.
10. MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND POTABLE WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF 3- FEET SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. A MINIMUM OF 18-INCHES SHALL BE PROVIDED BETWEEN THE BOTTOM OF ANY POTABLE WATER SUPPLY LINE AND TOP OF THE REUSE LINE.
11. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES INCURRED AT THEIR OWN EXPENSE.

12. CONTRACTOR IS TO POTHOLE EACH SERVICE LINE CONNECTION FOR EXISTING WATER MAINS TO DETERMINE THE CONDITION OF THE SADDLE AND CORPORATION STOP AND APPLY ONE OF THE FOLLOWING:
  - A. SADDLE/CORP. IN GOOD CONDITION ARE TO REMAIN.
  - B. OLD SADDLE IS TO BE REPLACED AND CORP. STOP IN GOOD CONDITIONS IS TO REMAIN.
  - C. OLD SADDLE/CORP. STOP ARE TO BE REPLACED. EXISTING SADDLE/CORP. STOP SHALL BE REMOVED AND MAIN SHALL BE WRAPPED.
13. ALL REMOVED PIPE MATERIAL CANNOT BE REUSED OR RELOCATED, FIRE HYDRANTS CANNOT BE RELOCATED.
14. NOTIFICATION LETTERS MUST BE SENT 48-HOURS IN ADVANCE IF SHUTTING DOWN WATER TO RESIDENCES.
15. EXISTING WATER SERVICES ARE TO BE:
  - A. CUT AND ABANDONED IN PLACE WHEN NEW WATER SERVICE IS INSTALLED WITH A NEW ALIGNMENT.
  - B. REMOVED WHEN NEW WATER SERVICE IS INSTALLED IN EXISTING ALIGNMENT.
16. NEW/PROPOSED WATER METERS SHALL NOT BE LOCATED IN SIDEWALKS OR DRIVEWAYS.
17. CONTRACTOR SHALL INSTALL NEW WATER SERVICE LINES BY OPEN-CUT TRENCH.
18. METERS TO BE RELOCATED SHALL BE INSTALLED IN A NEW BOX.
19. CONTRACTOR IS TO SALVAGE ALL REMOVED EXISTING METER BOXES AND DELIVER THEM TO THE OWNER.
20. CONTRACTOR MUST HAVE A PLUMBING LICENSE OR SUB-CONTRACT WITH A PLUMBER.
21. CONTRACTOR IS TO INSTALL DOUBLE CHECK VALVE IN EVERY WATER METER BOX. WATER METER AND DOUBLE CHECK VALVE SHALL BE INSTALL IN THE SAME BOX.
22. CONTRACTOR IS REQUIRED TWO YEAR WARRANTY ON WATER MAIN IMPROVEMENTS FROM THE DATE OF FINAL COMPLETION.
23. REPLACE ANY DEFECTIVE SADDLES WITH NEW SADDLES ON EXISTING WATER MAIN.
24. CONTRACTOR IS REQUIRED TO TIE IN NEW WATER SERVICES ONTO EXISTING WATER MAIN WHERE SHOWN ON PLANS.
25. CONTRACTOR SHALL USE A BYPASS WHERE SERVICE MAY BE INTERRUPTED.
26. CONTRACTOR TO HAND DIG FOR EXISTING UTILITIES CONFLICT FOR METERS TO BE RELOCATED.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF SERVICE LATERALS DOWNSTREAM OF WATER METERS AS NECESSARY TO FACILITATE STORM DRAINAGE DITCH INSTALLATION.

**FIRE DEPARTMENT NOTES**

1. FIRE HYDRANTS SHALL BE CLEARLY VISIBLE FROM STREET AND ACCESSIBLE TO FIRE DEPARTMENT.
2. NOTIFY FIRE DEPARTMENT FOR ANY TYPE OF ROADWORK THAT MAY INTERFERE WITH EMERGENCY RESPONSE I.E. ROAD CLOSURE, LANE CLOSURE, ETC.
3. NOTIFY FIRE DEPARTMENT IF ANY AREA IN SCOPE WILL BE WITHOUT FIRE HYDRANT SERVICE WHILE WORK IS BEING PERFORMED.
4. FIRE HYDRANTS SHALL BE PROTECTED IF SUBJECT TO MECHANICAL DAMAGE. PROTECTIVE BOLLARDS SHALL NOT BE LOCATED WITHIN 4' RADIUS OF FIRE HYDRANT.

**ADDITIONAL NOTES**

1. ALL PIPE, VALVES & FITTINGS SHALL BE NSF 61 CERTIFIED.

**CLOSE OUT REQUIREMENTS**

THE CITY OF GRIFFIN WILL NOT APPROVE ANY CLOSE OUT (CO) UNTIL THE FOLLOWING REQUIREMENTS ARE MET.

- A. AS-BUILTS PROVIDED - (PAPER AND DIGITAL).
- B. ONCE AS-BUILTS ARE PROVIDED, A FINAL WALK THRU OF THE PROJECT AND INSPECTION.
- C. IF THERE ARE ANY ISSUES, THEY MUST BE CORRECTED PRIOR TO CO AND RE-INSPECTED.
- D. CONTRACTOR WILL ALSO NEED TO HAVE ALL BACKFLOWS TESTED PRIOR TO GETTING CO.
- E. IF THERE ARE ANY EASEMENTS, THEY MUST BE RECORDED AND PROVIDED TO THE CITY OF GRIFFIN.

**CITY OF GRIFFIN CONTACTS**

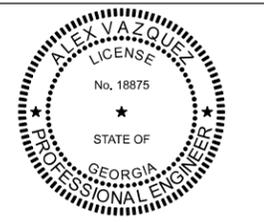
PROJECT MANAGER WATER & WASTEWATER CITY OF GRIFFIN: ALL ISSUES MUST COME THROUGH PROJECT MANAGER (CITY)

DOUGLAS WHITE  
(678) 692-0404 - OFFICE  
(678) 435-1772 - CELL

WATER SUPERINTENDENT:  
SHANE ANDREWS  
(770) 229-6420 - OFFICE

WASTEWATER SUPERINTENDENT:  
DONALD COOK  
(770) 229-6420 - OFFICE

WATER AND WASTEWATER CUSTOMER SERVICE: SET UP ALL ACCOUNTS (WATER, SEWER, ELECTRIC)  
WANDA MOORE  
(770) 229-6400 - OFFICE  
[WMOORE@CITYOFGRIFFIN.COM](mailto:WMOORE@CITYOFGRIFFIN.COM) - EMAIL



**H&L**  
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

NOT TO SCALE

<b>REVISION DATES</b>		<b>CITY OF GRIFFIN - PUBLIC WORKS</b>	
<b>WATER &amp; SEWER ADJUSTMENT PLANS</b>		<b>HAMMOND DRIVE AT WEST POPLAR STREET</b>	
<b>INTERSECTION IMPROVEMENT</b>		<b>DRAWING No.</b>	
CHECKED:	DATE:	<b>44-0001</b>	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		

UTILITY LINECODES

UTILITY SYMBOLS

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
O	~W~E~W~E	~W~X~E~W~X~E	~W~E~W~	ELECTRIC
V	~W~E~T~W~	~W~X~E~T~W~X~	~W~E~T~W~	ELECTRIC/TELECOMMUNICATIONS
E	~W~E~TV~W~	~W~X~E~TV~W~X~	~W~E~TV~W~	ELECTRIC/CABLE TV
R	~W~E~T~TV~W~	~W~X~E~T~TV~W~X~	~W~E~T~TV~W~	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
H	~W~GW~W~	~W~X~GW~W~X~	~W~GW~W~	GUY WIRE
E	~W~T~W~	~W~X~T~W~X~	~W~T~W~	TELECOMMUNICATIONS
A	~W~T~TV~W~	~W~X~T~TV~W~X~	~W~T~TV~W~	TELECOMMUNICATIONS/CABLE TV
D	~W~TV~W~	~W~X~TV~W~X~	~W~TV~W~	CABLE TV

	-----E-----	--X--E--X--	-----E-----	ELECTRIC
	-----T-----	--X--T--X--	-----T-----	TELECOMMUNICATIONS
	-----TV-----	--X--TV--X--	-----TV-----	CABLE TV
U	-----W-----	--X--W--X--	-----W-----	WATER
N	-----**W-----	--X--**W--X--	-----**W-----	WATER FOR LABELED PIPE SIZES
D	-----NW-----	--X--NW--X--	-----NW-----	NON-POTABLE WATER
E	-----**NW-----	--X--**NW--X--	-----**NW-----	NON-POTABLE WATER FOR LABELED PIPE SIZES
R	-----STM-----	--X--STM--X--	-----STM-----	STEAM
G	-----**STM-----	--X--**STM--X--	-----**STM-----	STEAM FOR LABELED PIPE SIZES
R	----->SS-----	--X-->SS--X--	----->SS-----	SANITARY SEWER WITH FLOW DIRECTION
O	-----Σ**SS-----	--X--Σ**SS--X--	-----Σ**SS-----	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
U	----->SFM-----	--X-->SFM--X--	----->SFM-----	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
N	-----G-----	--X--G--X--	-----G-----	GAS
D	-----**G-----	--X--**G--X--	-----**G-----	GAS FOR LABELED PIPE SIZES
	-----P-----	--X--P--X--	-----P-----	PETROLEUM
	-----**P-----	--X--**P--X--	-----**P-----	PETROLEUM FOR LABELED PIPE SIZES

EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY

ACRONYMNS

CI CAST IRON	LF LINEAR FEET	WM WATER MAIN
COG CITY OF GRIFFIN	O/S OFFSET	
DIP DUCTILE IRON PIPE	REST RESTRAINED	
FH FIRE HYDRANT	RT RIGHT	
IN INCH	SSMH SANITARY SEWER MANHOLE	
LT LEFT	STA STATION	



Know what's below.  
Call before you dig.



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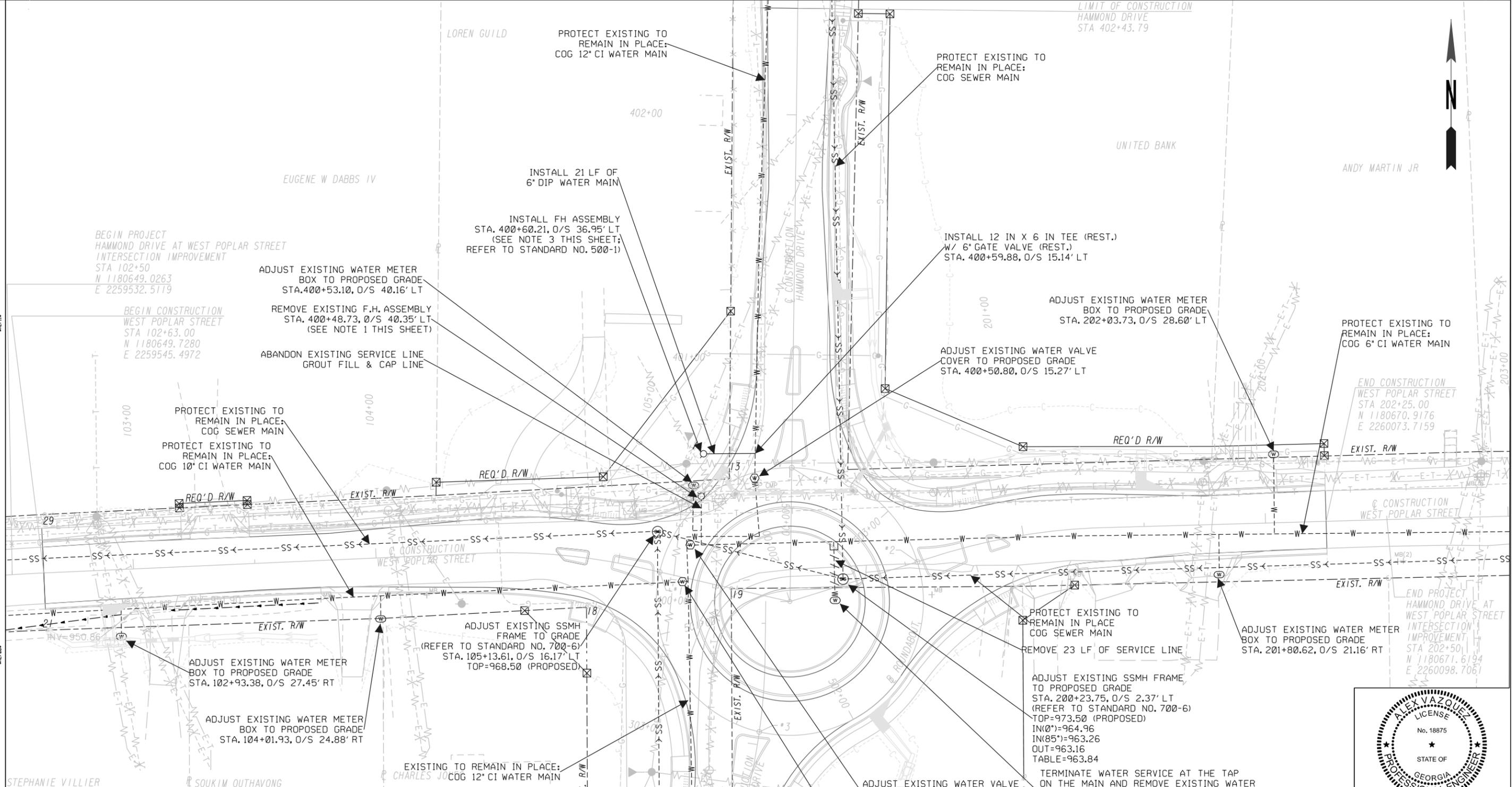
REVISION DATES

NO.	DATE	DESCRIPTION

CITY OF GRIFFIN - PUBLIC WORKS

WATER & SEWER ADJUSTMENT PLANS  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



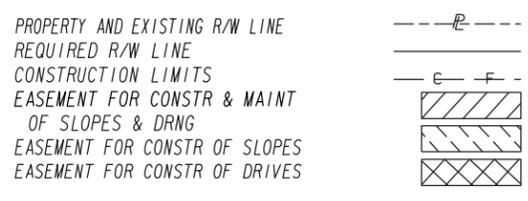
BEGIN PROJECT  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT  
STA 102+50  
N 1180649.0263  
E 2259532.5119

BEGIN CONSTRUCTION  
WEST POPLAR STREET  
STA 102+63.00  
N 1180649.7280  
E 2259545.4972

END CONSTRUCTION  
WEST POPLAR STREET  
STA 202+25.00  
N 1180670.9176  
E 2260073.7159

END PROJECT  
HAMMOND DRIVE AT  
WEST POPLAR STREET  
INTERSECTION  
IMPROVEMENT  
STA 202+50  
N 1180671.6194  
E 2260098.7061

- NOTES:
1. THE CONTRACTOR SHALL PROVIDE REMOVED FIRE HYDRANT, WATER METER, AND ALL RELATED COMPONENTS TO COGWW.
  2. COGWW SEWER CREW TO BE ON SITE WHEN MANHOLES ARE RAISED.
  3. THE NEW FIRE HYDRANT ASSEMBLY SHALL BE PROVIDED TO THE CONTRACTOR BY COGWW FOR INSTALLATION.
  4. ALL WATER METERS WITHIN THE PROPOSED IMPROVEMENTS TO BE RAISED TO PROPOSED GRADE.
  5. THE CONTRACTOR SHALL RECONNECT THE EXISTING CUSTOMER SERVICE LINE DOWNSTREAM OF THE ADJUSTED WATER METERS IF NECESSARY. RECONNECTION SHALL INCLUDE ANY NEW PIPING, FITTINGS, AND ACCESSORIES.



BEGIN LIMIT OF ACCESS.....BLA  
END LIMIT OF ACCESS.....ELA  
REQ'D LIMIT OF ACCESS  
REQ'D LIMIT OF ACCESS & R/W  
ORANGE BARRIER FENCE  
ESA - ENV. SENSITIVE AREA  
(SEE ERIT TABLE)

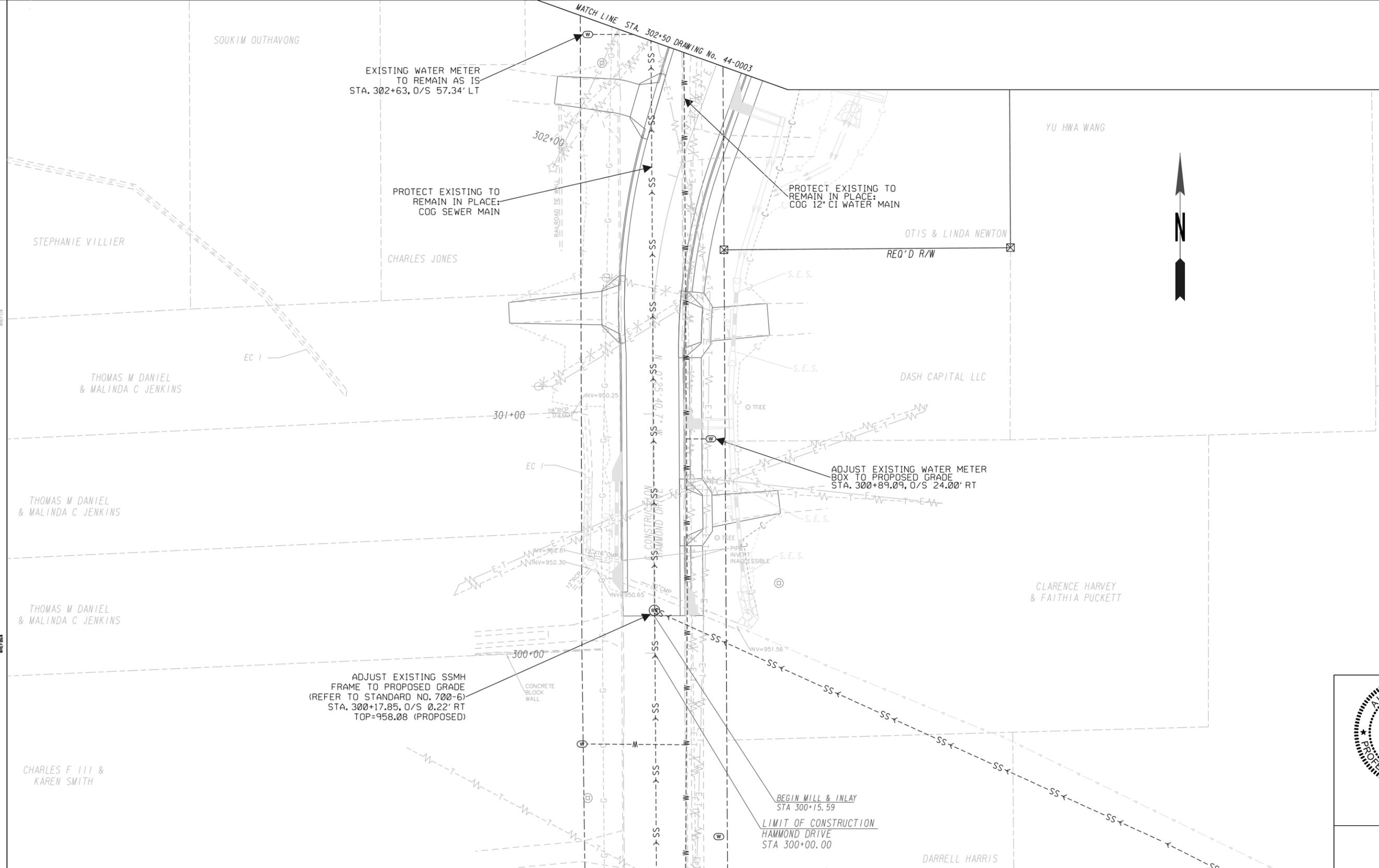


REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		WATER & SEWER ADJUSTMENT PLANS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No. <b>44-0003</b>	
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:		



OTIS & LINDA NEWTON

YU HWA WANG



EXISTING WATER METER  
TO REMAIN AS IS  
STA. 302+63, O/S 57.34' LT

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG SEWER MAIN

PROTECT EXISTING TO  
REMAIN IN PLACE:  
COG 12" CI WATER MAIN

ADJUST EXISTING WATER METER  
BOX TO PROPOSED GRADE  
STA. 300+89.09, O/S 24.00' RT

ADJUST EXISTING SSMH  
FRAME TO PROPOSED GRADE  
(REFER TO STANDARD NO. 700-6)  
STA. 300+17.85, O/S 0.22' RT  
TOP=958.08 (PROPOSED)

BEGIN MILL & INLAY  
STA 300+15.59

LIMIT OF CONSTRUCTION  
HAMMOND DRIVE  
STA 300+00.00

---	BEGIN LIMIT OF ACCESS.....BLA
---	END LIMIT OF ACCESS.....ELA
---	REQ'D LIMIT OF ACCESS
---	REQ'D LIMIT OF ACCESS & R/W
---	ORANGE BARRIER FENCE
---	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

---	PROPERTY AND EXISTING R/W LINE
---	REQUIRED R/W LINE
---	CONSTRUCTION LIMITS
---	EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG
---	EASEMENT FOR CONSTR OF SLOPES
---	EASEMENT FOR CONSTR OF DRIVES

**H&L**  
A BCC COMPANY

**Heath & Lineback**  
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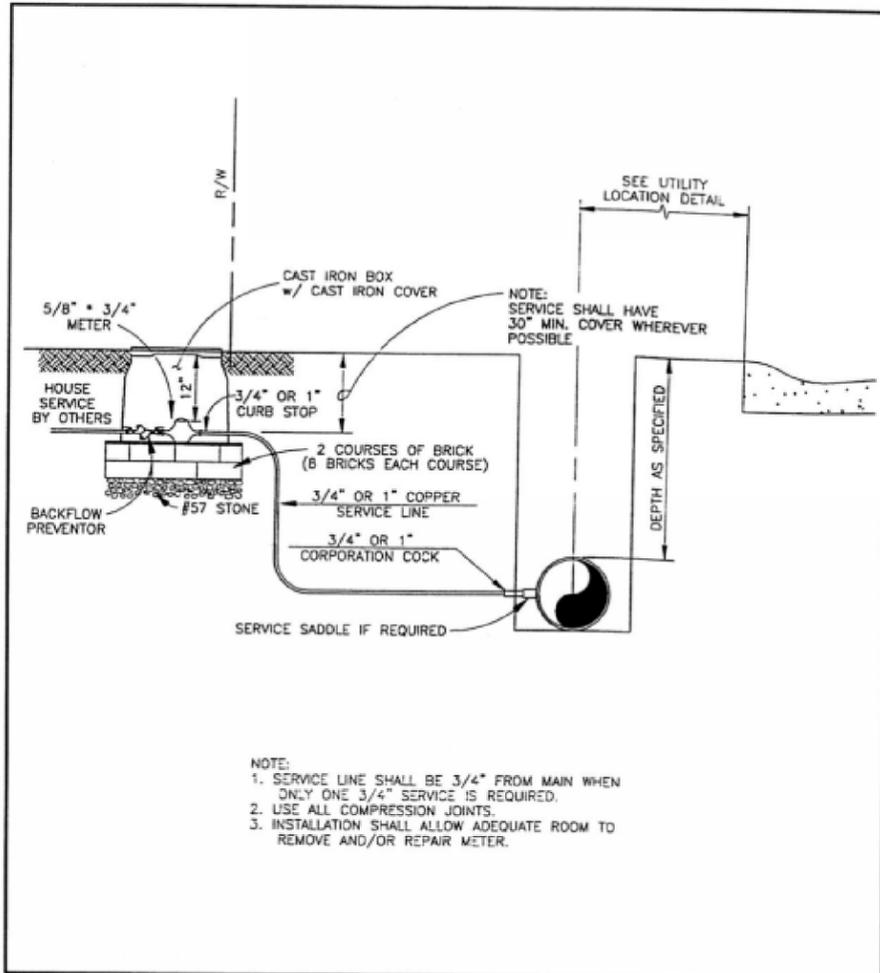


REVISION DATES	

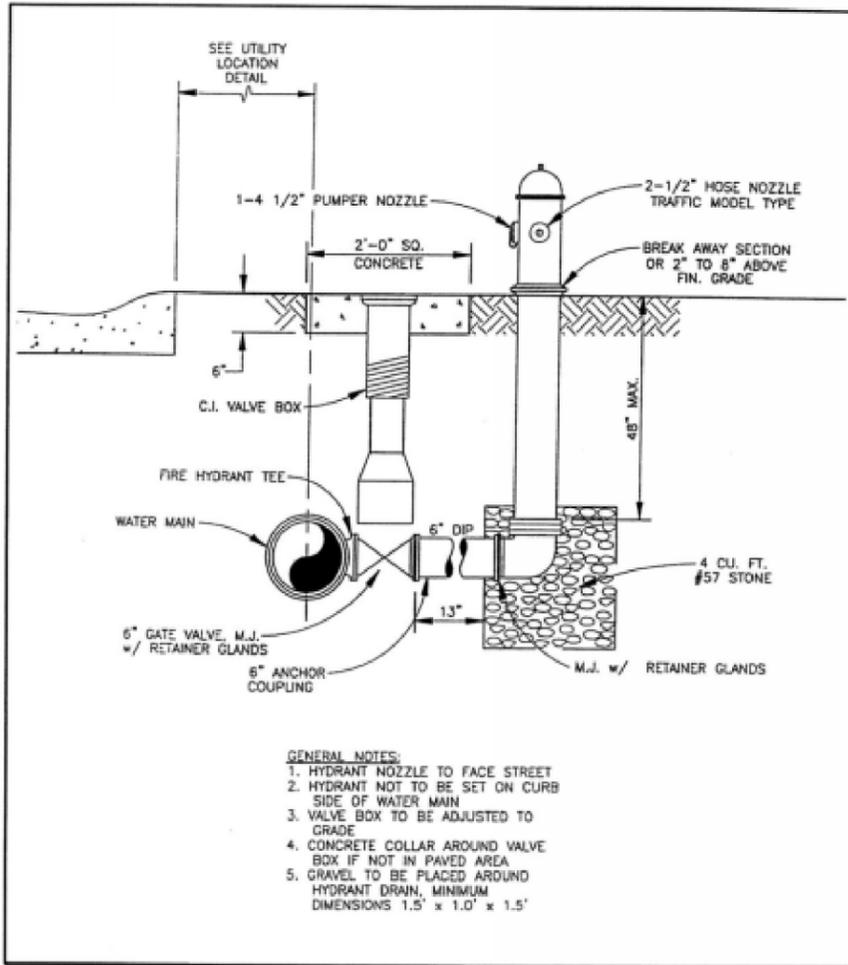
CITY OF GRIFFIN - PUBLIC WORKS  
WATER & SEWER ADJUSTMENT PLANS  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

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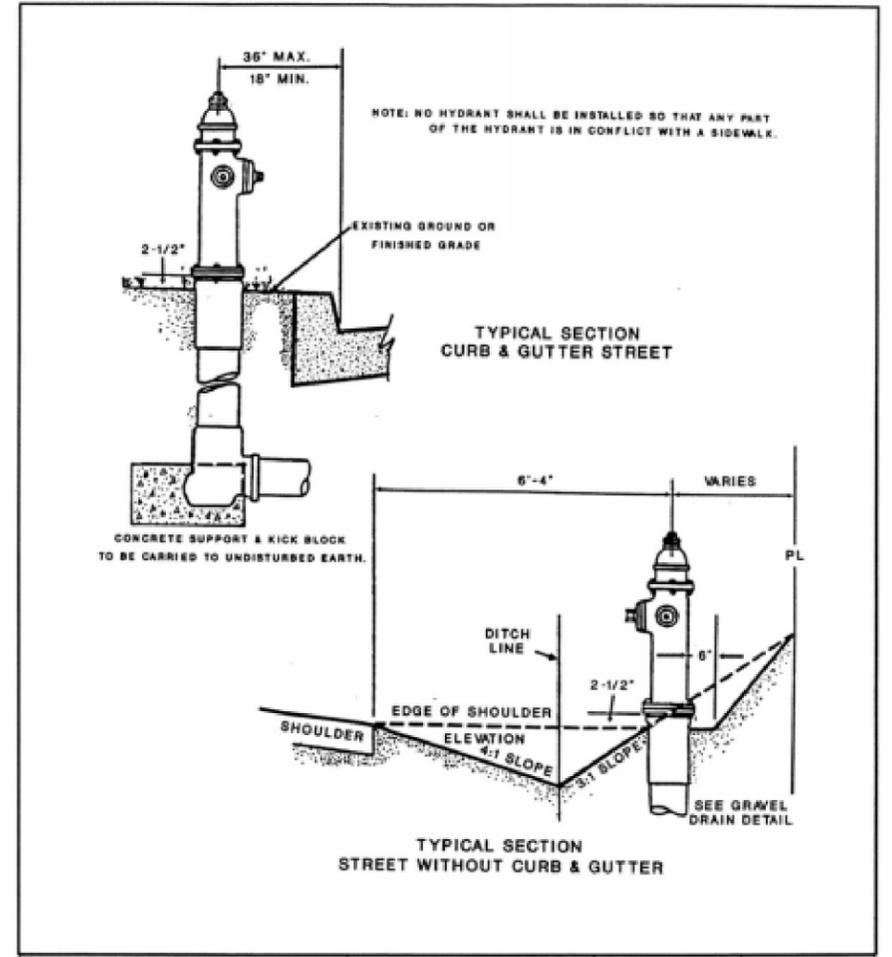




<p>CITY OF GRIFFIN WATER &amp; WASTEWATER DEPARTMENT</p>	<p><b>HOUSE SERVICE INSTALLATION</b></p> <p>CONSTRUCTION STANDARD</p>	DATE 12/96	STANDARD NO.
		APPROVED 1/8/02	600-4
		EFFECTIVE 2/2002	



<p>CITY OF GRIFFIN WATER &amp; WASTEWATER DEPARTMENT</p>	<p><b>TYPICAL FIRE HYDRANT INSTALLATION</b></p> <p>CONSTRUCTION STANDARD</p>	DATE 12/96	STANDARD NO.
		APPROVED 1/8/02	500-1
		EFFECTIVE 2/2002	



<p>CITY OF GRIFFIN WATER &amp; WASTEWATER DEPARTMENT</p>	<p><b>TYPICAL FIRE HYDRANT LOCATION</b></p> <p>CONSTRUCTION STANDARD</p>	DATE 12/96	STANDARD NO.
		APPROVED 1/8/02	500-2
		EFFECTIVE 2/2002	



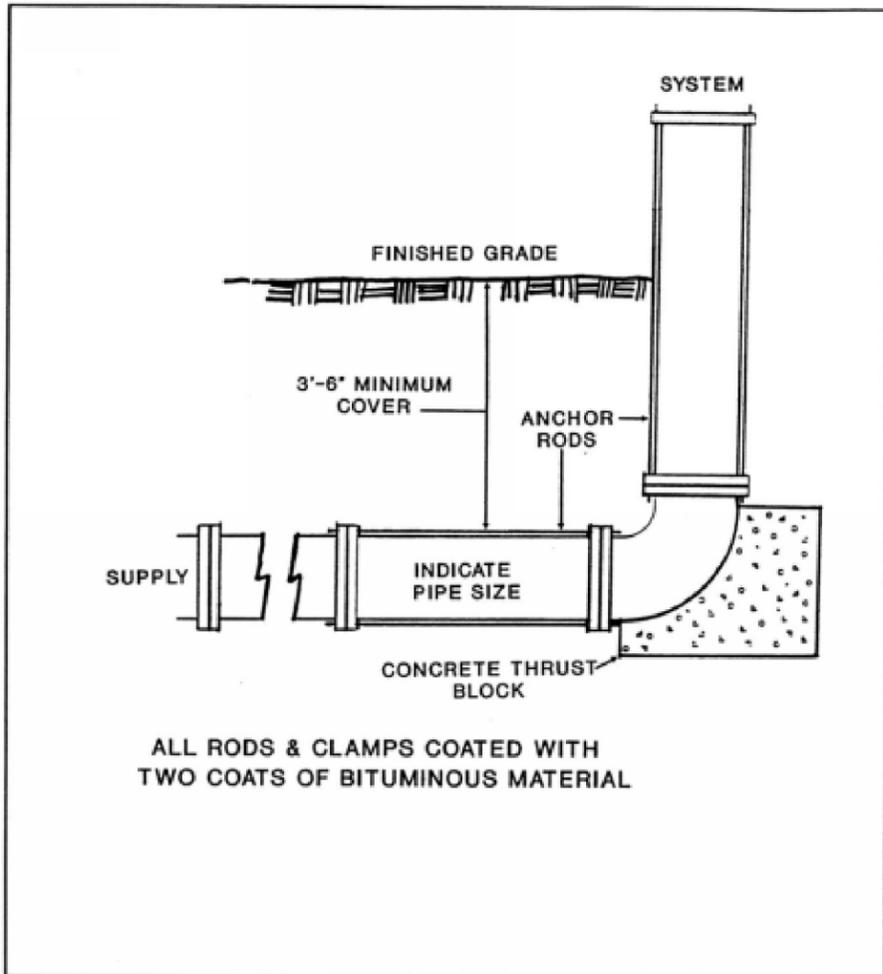
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REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS		
WATER & SEWER ADJUSTMENT PLANS		
HAMMOND DRIVE AT WEST POPLAR STREET		
INTERSECTION IMPROVEMENT		
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



ALL RODS & CLAMPS COATED WITH TWO COATS OF BITUMINOUS MATERIAL

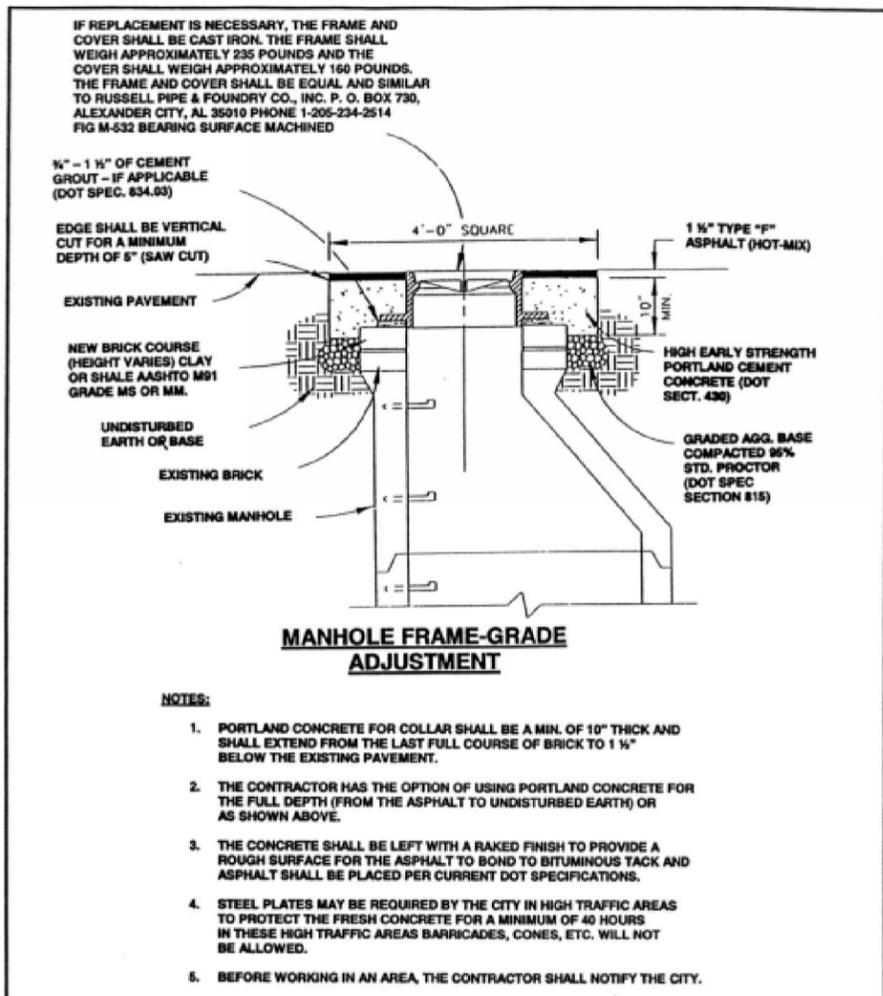


CITY OF GRIFFIN  
WATER & WASTEWATER  
DEPARTMENT

FIRE LINE DETAIL  
CONSTRUCTION STANDARD

DATE 12/96  
APPROVED 1/8/02  
EFFECTIVE 2/2002

STANDARD NO.  
500-7



**MANHOLE FRAME-GRADE ADJUSTMENT**

**NOTES:**

1. PORTLAND CONCRETE FOR COLLAR SHALL BE A MIN. OF 10" THICK AND SHALL EXTEND FROM THE LAST FULL COURSE OF BRICK TO 1 1/2" BELOW THE EXISTING PAVEMENT.
2. THE CONTRACTOR HAS THE OPTION OF USING PORTLAND CONCRETE FOR THE FULL DEPTH (FROM THE ASPHALT TO UNDISTURBED EARTH) OR AS SHOWN ABOVE.
3. THE CONCRETE SHALL BE LEFT WITH A RAKED FINISH TO PROVIDE A ROUGH SURFACE FOR THE ASPHALT TO BOND TO BITUMINOUS TACK AND ASPHALT SHALL BE PLACED PER CURRENT DOT SPECIFICATIONS.
4. STEEL PLATES MAY BE REQUIRED BY THE CITY IN HIGH TRAFFIC AREAS TO PROTECT THE FRESH CONCRETE FOR A MINIMUM OF 40 HOURS IN THESE HIGH TRAFFIC AREAS BARRICADES, CONES, ETC. WILL NOT BE ALLOWED.
5. BEFORE WORKING IN AN AREA, THE CONTRACTOR SHALL NOTIFY THE CITY.



CITY OF GRIFFIN  
WATER & WASTEWATER  
DEPARTMENT

MANHOLE FRAME  
GRADE ADJUSTMENT  
CONSTRUCTION STANDARD

DATE 12/96  
APPROVED 1/8/02  
EFFECTIVE 2/2002

STANDARD NO.  
700-6



REVISION DATES

NO.	DATE	DESCRIPTION

CITY OF GRIFFIN - PUBLIC WORKS

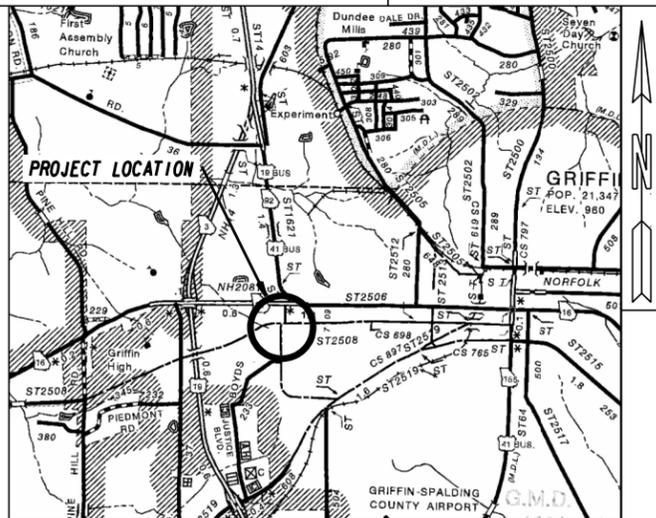
WATER & SEWER ADJUSTMENT PLANS  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

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LOCATION SKETCH - N.T.S.

# CITY OF GRIFFIN - PUBLIC WORKS

## EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

### HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT

#### SPALDING COUNTY

FEDERAL ROUTE \*N/A  
STATE ROUTE \*N/A  
Project No. 24-002

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GARI00002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document 'Manual for Erosion and Sediment Control in Georgia' (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GARI00002."

"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. GARI00002, 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."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."

  
SIGNATURE  
09/19/2023  
DATE



**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION

**Matthew A. Colak**  
Level II Certified Design Professional

CERTIFICATION NUMBER 0000066175  
ISSUED 10/10/2021 EXPIRES 10/10/2024

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/2011 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

**PRIMARY PERMITTEE**  
CITY OF GRIFFIN PUBLIC WORKS  
ONE GRIFFIN CENTER  
100 S HILL ST  
GRIFFIN, GA 30223  
PHONE: (770) 229-6603  
EMAIL: XXX@XXX.COM

**24 HOUR CONTACT:**

Name \_\_\_\_\_

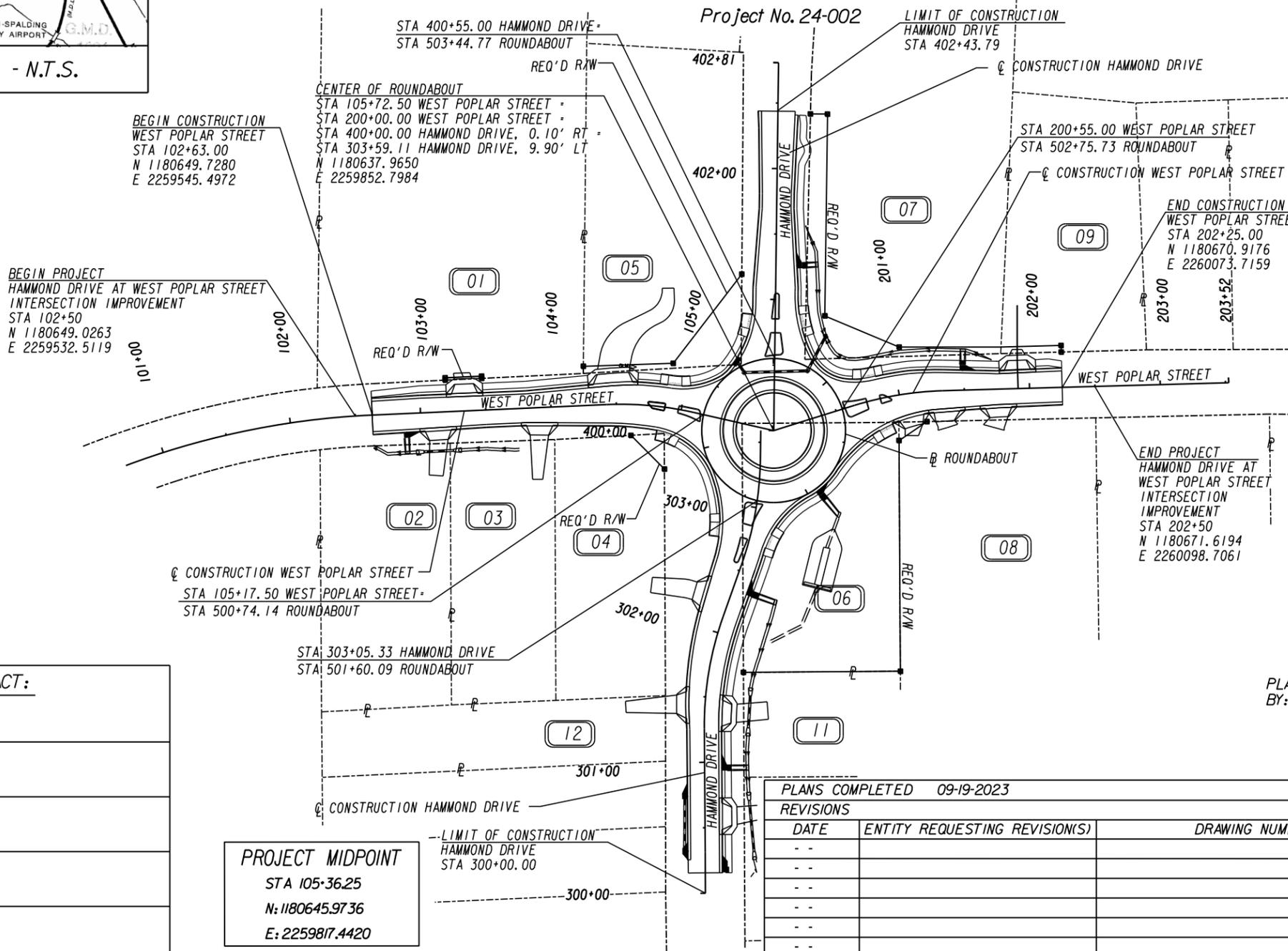
Street Address \_\_\_\_\_

City, State Zip \_\_\_\_\_

Phone Number \_\_\_\_\_

Email Address \_\_\_\_\_

Contractor shall complete the information in this box.



<b>BEGIN-POINT COORDINATES</b>
Longitude: -84.28785°
Latitude: 33.24576°
<b>MID-POINT COORDINATES</b>
Longitude: -84.28692°
Latitude: 33.24576°
<b>END-POINT COORDINATES</b>
Longitude: -84.28600°
Latitude: 33.24583°

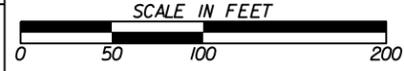
**PLANS PREPARED BY:**

 **Heath & Lineback**  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

DESIGN

PLANS COMPLETED 09-19-2023

DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.*





ESPCP GENERAL NOTES

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

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

ESPCP ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

SITE STABILIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GARI00002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

BMP INSTALLATION AND MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for installation and maintenance measures.

PETROLEUM STORAGE, SPILLS, AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI00002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

CONSTRUCTION SCHEDULE AND SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

Initial Phase: Work in this stage includes installation of initial BMPs.

- A. Initial BMPs: Install the following BMPs prior to construction
1. Install perimeter silt fence as shown on Stage 1 plans prior to clearing and grubbing operations.
2. Place Check Dams, Silt Gates and Sediment Traps as shown on the Stage 1 plans
3. Contractor is responsible for establishing construction exits.
B. Intermediate BMPs: N/A
C. Final BMPs: N/A

Stage 1 & 2 Intermediate Phase:

- A. Initial BMPs: N/A
B. Intermediate BMPs: Perform clearing and grubbing. While earthwork is progressing, do the following:
1. Add J-Hooks along the toes of embankments as directed in GDOT Construction Detail D-24C and adjust silt fence where required.
2. Install and maintain check dams, silt gates, and sediment traps where shown in Stage 2 plans until final BMPs can be installed.
3. Install mulch and temporary grassing as shown on the Stage 2 plans.
C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
1. Permanent grassing
2. Rip Rap
3. Contractor to remove BMP's once stabilized.

Stage 3 Final Phase:

- A. Initial BMPs: N/A
B. Intermediate BMPs: N/A
C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:
1. Permanent grassing, slope stabilization, sod, and central island landscaping (per GDOT Detail RA-1) where shown on the Stage 3 plans.
2. Rip Rap and ditches.
3. Ditch outfall protection.

DESCRIPTION OF CONSTRUCTION ACTIVITY

The proposed project will construct a proposed roundabout at the intersection of Hammond Drive and West Poplar Street.

Construction Schedule

Table with 4 columns: Month, 1-3, 3-6, 6-12. Rows include Install Temporary Erosion Control Measures, Maintenance of Temporary Erosion Control Measures, Perform Construction Activities, Establish Permanent Vegetation, Remove Temporary Erosion Control Measures.

SILT FENCE INSTALLATIONS WITH J HOOKS AND SPURS

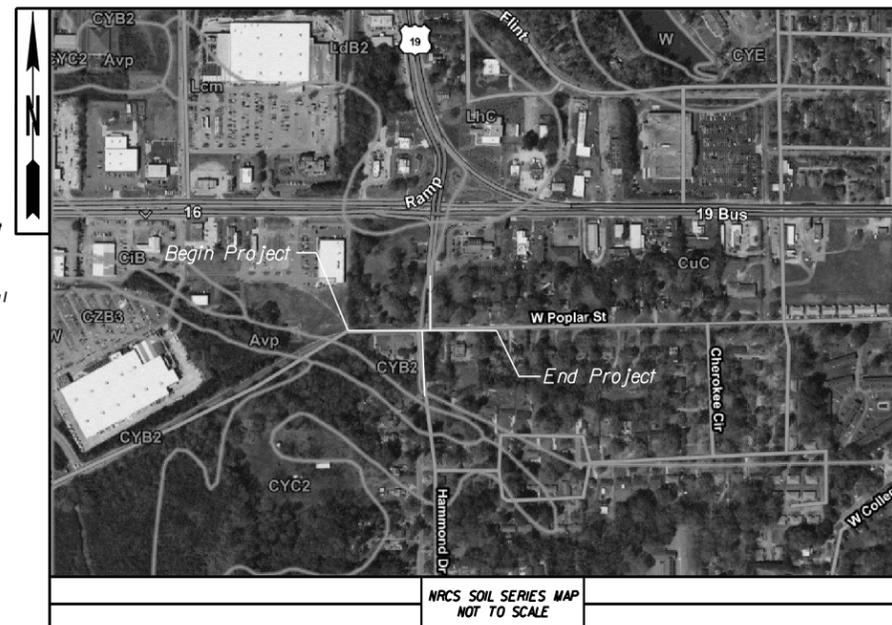
Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes.

POSTCONSTRUCTION BMPs FOR STORMWATER MANAGEMENT

All permanent postconstruction BMPs are shown in the construction plans and in the ESPCP plan. The postconstruction BMPs for this project consist of detention ponds, vegetated swales/ditches, vegetation, flumes, riprap at pipe outlets for velocity dissipation and outlet stabilization, channel/ditch stabilization with turf reinforcing mats, slope stabilization matting, riprap and concrete ditch lining where necessary. The postconstruction BMPs will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:



The following is a summary of the soils that are expected to be found on the project site:

Table with 4 columns: Map Unit Symbol, Map Unit Name, Acres in AOI, Percent of AOI. Lists soil types like Avp, CiB, CuC, CYB2, CYC2, CYE, CZB3, Lcm, LdB2, LhC, W, and Totals for Area of Interest.

Heath & Lineback logo and address: 2390 Canton Road | Building 200 Marietta, Georgia 30066 770.424.1668

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REVISION DATES

City of Griffin - Public Works ESPCP General Notes Hammond Drive at West Poplar Street Intersection Improvement. Includes revision table and drawing number 51-0002.

**NONSTORMWATER DISCHARGES**

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

**READY MIX CHUTE WASH DOWN**

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

**OTHER CONTROLS**

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use. The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic system, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

**STATE-WATER BUFFER IMPACTS**

State-water buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

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

**WATER QUALITY INSPECTING AND SAMPLING PROCEDURES**

See Special Provision 167 and other contract documents for the inspecting and sampling procedures. Sampling locations are provided in the Sampling Location table herein.

**RETENTION OF RECORDS**

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GARI00002.

**TEMPORARY SEDIMENT BASINS:**

Sediment basins are not used for any outfall for this project. The disturbance activities consist of clearing & grubbing and general roadway construction. Land disturbance activities associated with constructing and removing sediment basins at this outfall location would cause additional adverse impacts. BMP's as shown in the erosion control plans are adequate to control sediment runoff from the disturbed areas of the project.

**DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT**

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

**USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:**

Fabric check dams will be used on this project as an alternative BMP. The use of the alternative BMP for stone check dams has been reviewed by the Georgia EPD and has been determined by the Georgia EPD to be allowable only for this ESPCP. This review was site specific and was based on documentation submitted and certified by the Level-II Certified Design Professional and was required by the Georgia EPD and GSWCC.

**SEDIMENT STORAGE**

The site has a total disturbed area of 1.82 acres.

The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd <sup>3</sup> )	Total Storage Volume Provided (yd <sup>3</sup> )	Check Dams, Cd-F (4.0 yd <sup>3</sup> /each)		Inlet Sediment Traps, SD2-F (1.04 yd <sup>3</sup> /each)		Silt Gates, Rt-Sg2 (1.04 yd <sup>3</sup> /each)		Silt Gates, Rt-Sg3 (1.04 yd <sup>3</sup> /each)		Silt Fence, TP C (0.17 yd <sup>3</sup> /ft)		J-Hooks (2.5 yd <sup>3</sup> /each)	
					# of Devices	Total Volume (yd <sup>3</sup> )	# of Devices	Total Volume (yd <sup>3</sup> )	# of Devices	Total Volume (yd <sup>3</sup> )	# of Devices	Total Volume (yd <sup>3</sup> )	Length of Fence (ft)	Total Volume (yd <sup>3</sup> )	# of Devices	Total Volume (yd <sup>3</sup> )
1	2.12	0.35	142.0	148	4	25.73	3	3.11	1	1.04	1	1.04	550.00	92	10	25.00
2*	30.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2A	1.08	0.85	72.4	216	2	7.12	4	4.15	1	1.04	2	2.08	865.29	145	18	45.00
3	3.10	0.39	207.7	210	6	11.39	7	7.26	0	0.00	1	1.04	950.00	159	13	32.50
SF1	0.43	0.23	28.8	113	0	0.00	1	1.04	0	0.00	0	0.00	505.62	85	11	27.50
<b>TOTAL DISTURBED AREA (AC)=</b>		<b>1.82</b>	<b>*Note: Disturbed Area, Required Sediment Storage and Total Storage Volume per BMP is contained within Sub-Basin 2A. The majority of Basin 2 flows into an existing channel prior to passing through the project site and does not require sediment storage.</b>													

To prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

**INSPECTIONS AND REPORTING**

As the primary permittee, the Department must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GARI00002 Permit, within 7 days of installation and all sediment basins within the entire linear infrastructure project within 7 days of installation. The inspecting design professional shall report the results to the primary permittee within 7 days, and the permittee must correct all deficiencies within 2 business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent 7 day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department Inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection and reporting requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Whenever the Department finds that a BMP has failed or is deficient beyond routine maintenance and has resulted in sediment deposition into waters of the State, the Contractor shall take reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events. When the repair does not require a new or replacement BMP or significant repair, the BMP failure or deficiency must be corrected by the close of the next business day from the time of discovery. A repair requiring a new or replacement BMP or significant repair must be operational by no later than 7 days from the time of discovery. If the repair time within 7 days is infeasible, the Contractor and the Department shall schedule the BMP repair to be operational as soon as practical after the 7 day time frame.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

**SAMPLING GENERAL NOTES**

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

Note: The Total site area is 2.62 acres.											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi <sup>2</sup> )	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
1	STA 101+61.54, 20.49' RT West Poplar Street	IS 2	All	Outfall	0.07	0.39	Warm	75	N/A	Existing Channel	Maintenance/Safety	0.35	0.172	7	2,3

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

**WATER QUALITY INSPECTING AND SAMPLING PROCEDURES**

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

**RIPRAP OUTLET PROTECTION**

Road Name	Structure No.	Station	Offset	D <sub>o</sub> (PIPE SIZE/CHANNEL WIDTH-ft)	Q <sub>25</sub> (cfs)	Tw (FT)	PIPE RADIUS (FT)	OUTLET DEPTH (IN)	OUTLET VELOCITY (FPS)	MIN TAIL WATER CONDITION <sup>(1)</sup>	MAX TAIL WATER CONDITION <sup>(2)</sup>	La (FT) <sup>(3)</sup>	W <sub>2</sub> (FT) <sup>(4)</sup>	W <sub>1</sub> (FT) <sup>(5)</sup>	Average Stone Diameter d <sub>50</sub> (FT)	Apron Thickness D (FT)	RIP RAP AREA (SQY) <sup>(6)</sup>	Designed Rip Rap (SY)
WEST POPLAR STREET	SP-1	102+88.72	16.67' RT	2	12.19	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
HAMMOND DRIVE	SP-2	401+26.20	18.05' RT	2	2.78	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
WEST POPLAR STREET	SP-3	201+64.82	16.47' LT	2	3.66	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
HAMMOND DRIVE	SP-4	302+36.52	13.11' RT	2	3.35	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
HAMMOND DRIVE	SP-5	300+95.70	15.17' RT	2	1.44	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
ROUNDAABOUT	SP-6	502+08.06	3.97' RT	2	2.69	N/A	N/A	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00
HAMMOND DRIVE	B-1	300+32.29	15.75' LT	2.5	38.18	1.36	1.25	2.09	8.72	No	Yes	15	17.5	7.5	0.67	1.5	20.81	21.00
HAMMOND DRIVE	DW#12	300+25.51	37.94' RT	1.5	1.49	N/A	1	N/A	N/A	Yes	No	9	10.5	4.5	0.67	1.5	7.49	8.00
HAMMOND DRIVE	POND	302+54.16	60.21' RT	2	0.28	N/A	1	N/A	N/A	Yes	No	9	11.0	6.0	0.67	1.5	8.49	9.00

\* Rip-Rap has been modified to meet field conditions.

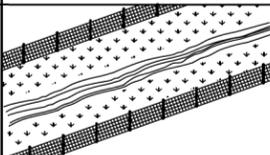
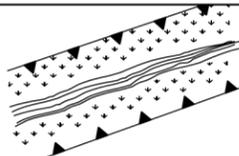
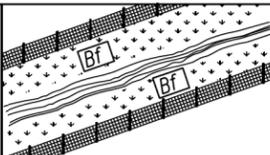
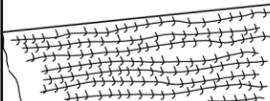
**CHANNEL PROTECTION**

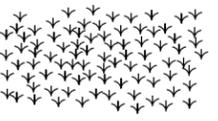
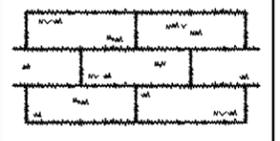
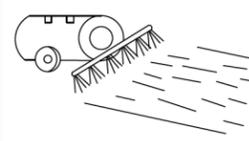
All channels may be stabilized exclusively with permanent grassing.



NTS

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>ESPCP GENERAL NOTES</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
		CHECKED: _____	DATE: _____
		BACKCHECKED: _____	DATE: _____
		CORRECTED: _____	DATE: _____
		VERIFIED: _____	DATE: _____
		DRAWING No. 51-0004	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS.  IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS.  WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL Bf	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING.  MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER.
		SYMBOL Ds1	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST.  TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS.  THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds2	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON.  PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION.  THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds3	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION.  SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.  THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN Ds4	
F1-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION.  ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs!  FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL F1-Co POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.  STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN Sb	

**NOTE:**

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 1 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	52-0001

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS.  SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP).  SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS.  NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH.  TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS.  THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASHPAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE.  SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS.  IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.  "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

**NOTE:**

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET SHEET 2 OF 7	
11/28/2018			
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.  *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.  RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163,800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS.  ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps.  THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE.  CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

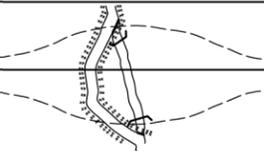
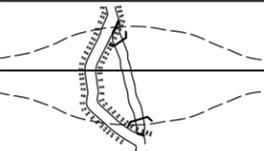
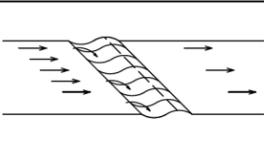
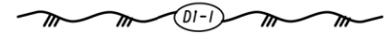
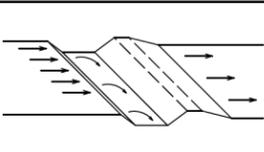
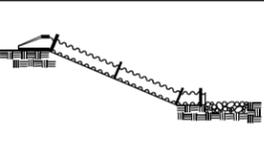
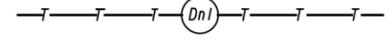
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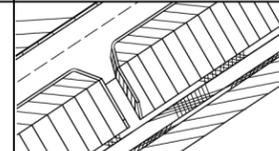
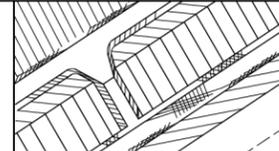
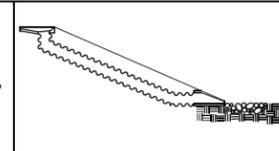
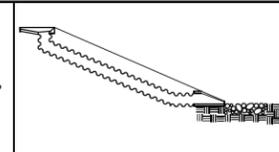
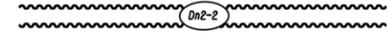
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 3 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	
		52-0003	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.  THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE.  CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.  THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE.  CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS 'Dn1' OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP.  RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
	LINE CODE 		
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.  THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'B' IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

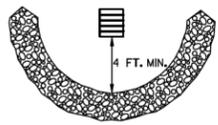
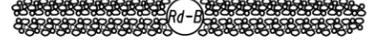
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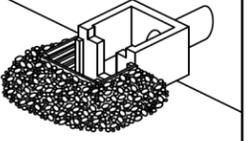
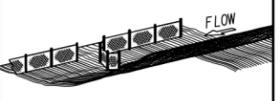
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 4 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	
		52-0004	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING  CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.  REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM  CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS.  THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS.  ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM  CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS.  STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP  SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS.  RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE  CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.  SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA.  SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA.  REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION		
Rt-B	RETROFITTING SLOTTED BOARD DAM  CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER.  PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA  ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES  REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.		
	SYMBOL 				
Rt-Sg1	RETROFITTING SILT CONTROL GATES  CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA.  DO NOT USE SILT GATES IN STATE WATERS.  Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS		
				SYMBOL 	
				FRONT VIEW	
SdI-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A  CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW.  TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'.  IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
				LINE CODE 	
SdI-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C  CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW.  TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER.  ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS.  IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
				LINE CODE 	

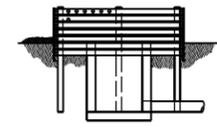
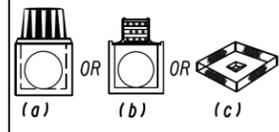
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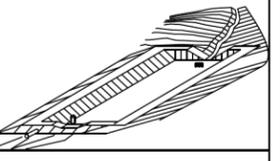
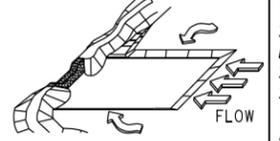
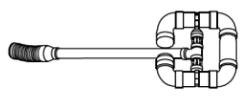
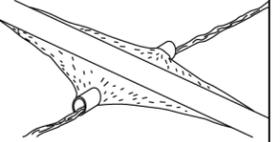
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NO SCALE

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3/2/2017		UNIFORM CODE SHEET	
		SHEET 5 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
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VERIFIED:		DATE:	
		DRAWING No. 52-0005	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER  CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS.  TYPICALLY NOT SHOWN ON PLANS.  PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE  * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL  (Sd2-B)		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL  (Sd2-Bg)		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%.  THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL  (Sd2-F)		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL  (Sd2-G)		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN  CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS.  SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL  (Sd3)		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP  CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET.  A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL  (Sd4-C)		
Sk	FLOATING SURFACE SKIMMER  CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS.  SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL  (Sk)		
Sr	TEMPORARY STREAM CROSSING  SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN.  THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".  FOR CONTRACTOR'S USE ONLY!
	SYMBOL  (Sr)		

**NOTE:**

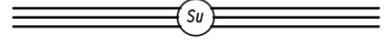
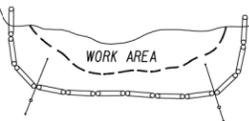
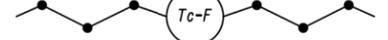
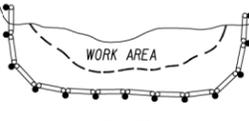
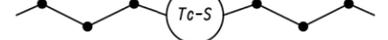
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REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET SHEET 6 OF 7	
11/28/2018			
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	



NO SCALE

DRAWING No. 52-0006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION  GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM.  IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
		SYMBOL 	
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP)  CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED.  TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 <math>\leq 1.2</math> FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 <math>\leq 0.7</math> FEET.  REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
		PATTERN 	
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER.  IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS.  IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE 	
Tc-F	TURBIDITY CURTAIN FLOATING  CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER.  THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs.  IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
		LINE CODE 	
Tc-S	TURBIDITY CURTAIN STAKED  CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER.  THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs.  IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
		LINE CODE 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

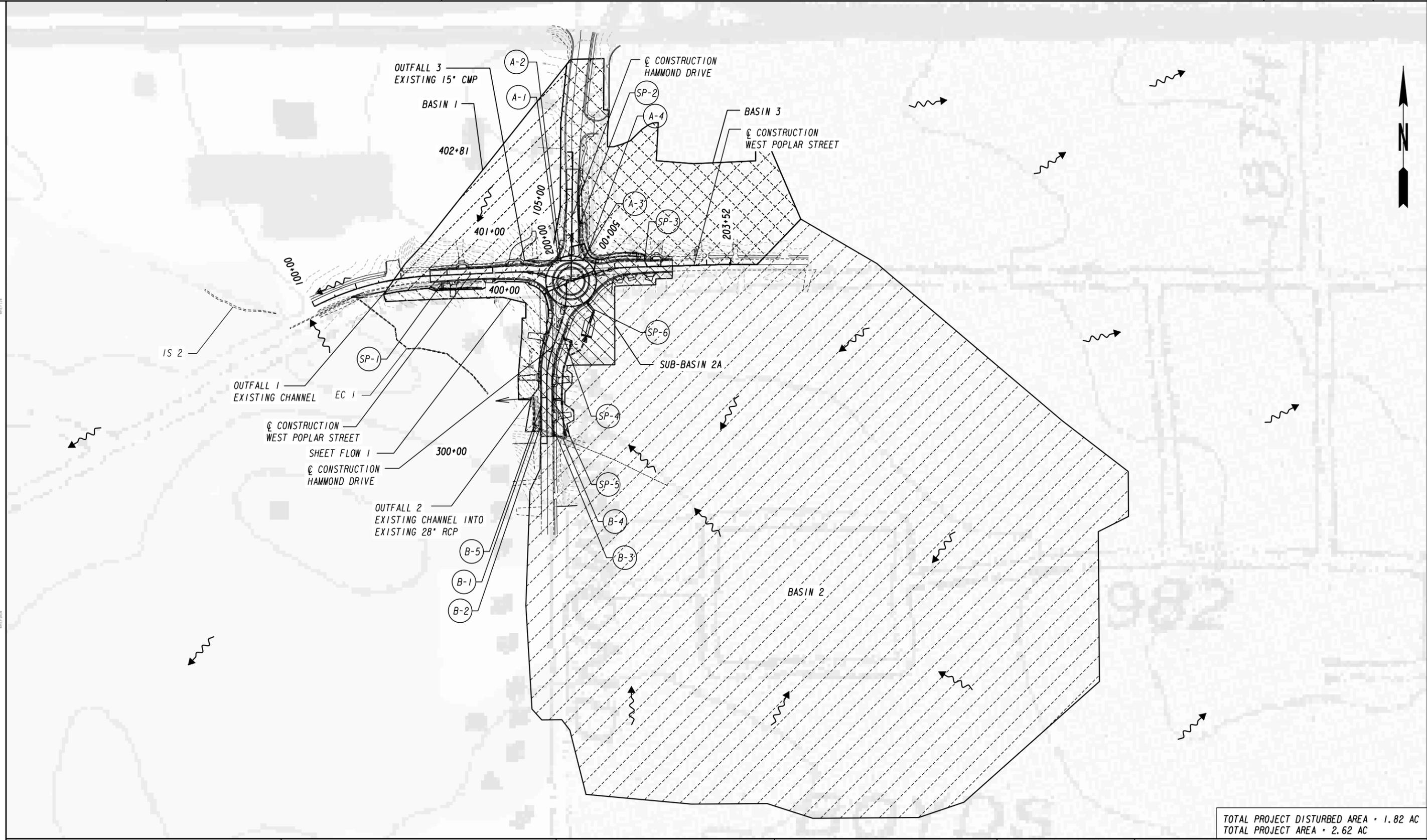
**NOTE:**

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NO SCALE

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		SHEET 7 OF 7	
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VERIFIED:		DATE:	
		DRAWING No.	52-0007



TOTAL PROJECT DISTURBED AREA = 1.82 AC  
 TOTAL PROJECT AREA = 2.62 AC

**H&L**  
 Heath & Lineback  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668



REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>EROSION CONTROL DRAINAGE AREA MAP</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	53-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

BASIN NO.	OUTFALL LOCATION AND DESCRIPTION				DISTURBED AREA	CONTRIBUTING AREA (ac)	EXISTING RUNOFF COEFFICIENT			EXISTING RUNOFF (CFS)			PROPOSED RUNOFF COEFFICIENT			PROPOSED RUNOFF (CFS)			PRE - HEADWATER ELEV.		PRE - VELOCITY (FPS)		POST - HEADWATER ELEV.		POST - VELOCITY (FPS)	
	ROAD	STATION	OFFSET	STRUCTURE TYPE			C <sub>25</sub>	C <sub>50</sub>	C <sub>100</sub>	(cfs) Q <sub>25</sub>	(cfs) Q <sub>50</sub>	(cfs) Q <sub>100</sub>	C <sub>25</sub>	C <sub>50</sub>	C <sub>100</sub>	(cfs) Q <sub>25</sub>	(cfs) Q <sub>50</sub>	(cfs) Q <sub>100</sub>	(ft) HW <sub>50</sub>	(ft) HW <sub>100</sub>	(fps) V <sub>50</sub>	(fps) V <sub>100</sub>	(ft) HW <sub>50</sub>	(ft) HW <sub>100</sub>	(fps) V <sub>50</sub>	(fps) V <sub>100</sub>
1	WEST POPLAR STREET	101+61.54	20.49' RT	EXISTING CHANNEL	0.35	2.12	0.49	0.54	0.56	6.67	8.17	9.44	0.53	0.58	0.60	7.77	9.51	10.99	N/A	N/A	5.55	5.77	N/A	N/A	5.79	6.02
2	HAMMOND DRIVE	300+99.55	34.06' LT	EXISTING CHANNEL INTO EXISTING 28" RCP	0.85	30.24	0.44	0.48	0.50	37.91	46.76	54.49	0.45	0.49	0.51	38.18	47.10	54.89	958.18	958.19	11.89	11.90	958.18	958.19	11.76	11.77
3	WEST POPLAR STREET	105+39.84	38.19' LT	EXISTING 15" CMP	0.39	3.10	0.52	0.56	0.59	8.28	10.16	11.76	0.51	0.55	0.58	7.95	9.76	11.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SHEETFLOW 1	WEST POPLAR STREET	104+00.00	RT	-	0.23	0.43	0.36	0.40	0.41	1.51	1.85	2.14	0.37	0.40	0.42	1.53	1.87	2.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9/8/2023 7:39:48 AM \$PRF88 J:\2019044\2019044\03\_DGN\2019044\_53-0002.dgn

9/8/2023 7:39:48 AM \$PRF88 J:\2019044\2019044\03\_DGN\2019044\_53-0002.dgn

7/31/2015 GPLN



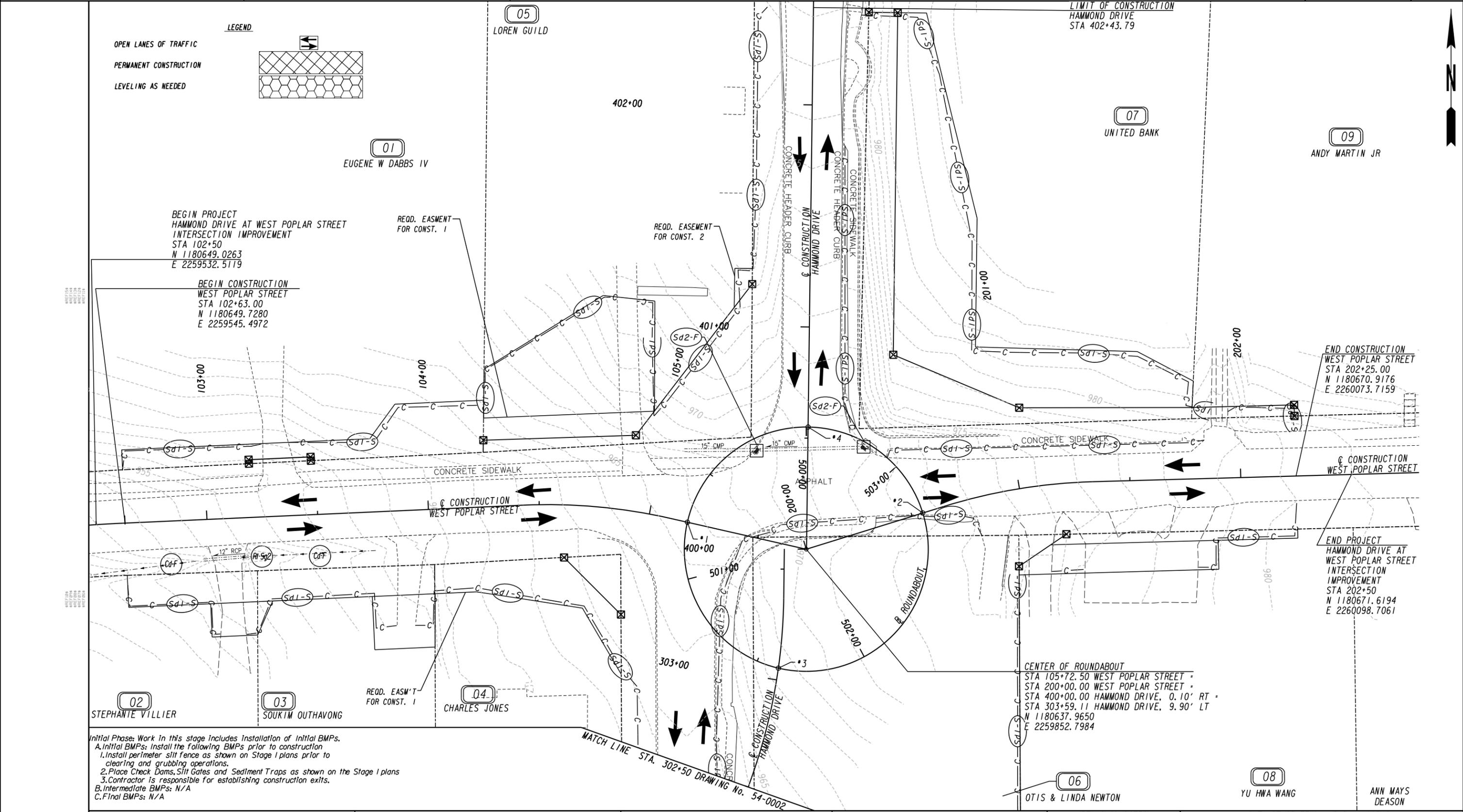
Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

REVISION DATES


CITY OF GRIFFIN - PUBLIC WORKS

**EROSION CONTROL DRAINAGE AREA MAP**  
HAMMOND DRIVE AT WEST POPLAR STREET  
INTERSECTION IMPROVEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	53-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

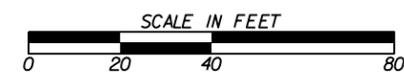


Initial Phase: Work in this stage includes installation of Initial BMPs.  
 A. Initial BMPs: Install the following BMPs prior to construction  
 1. Install perimeter silt fence as shown on Stage I plans prior to clearing and grubbing operations.  
 2. Place Check Dams, Silt Gates and Sediment Traps as shown on the Stage I plans  
 3. Contractor is responsible for establishing construction exits.  
 B. Intermediate BMPs: N/A  
 C. Final BMPs: N/A

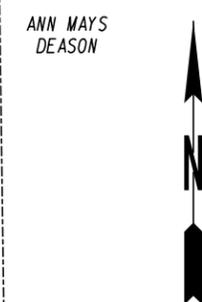
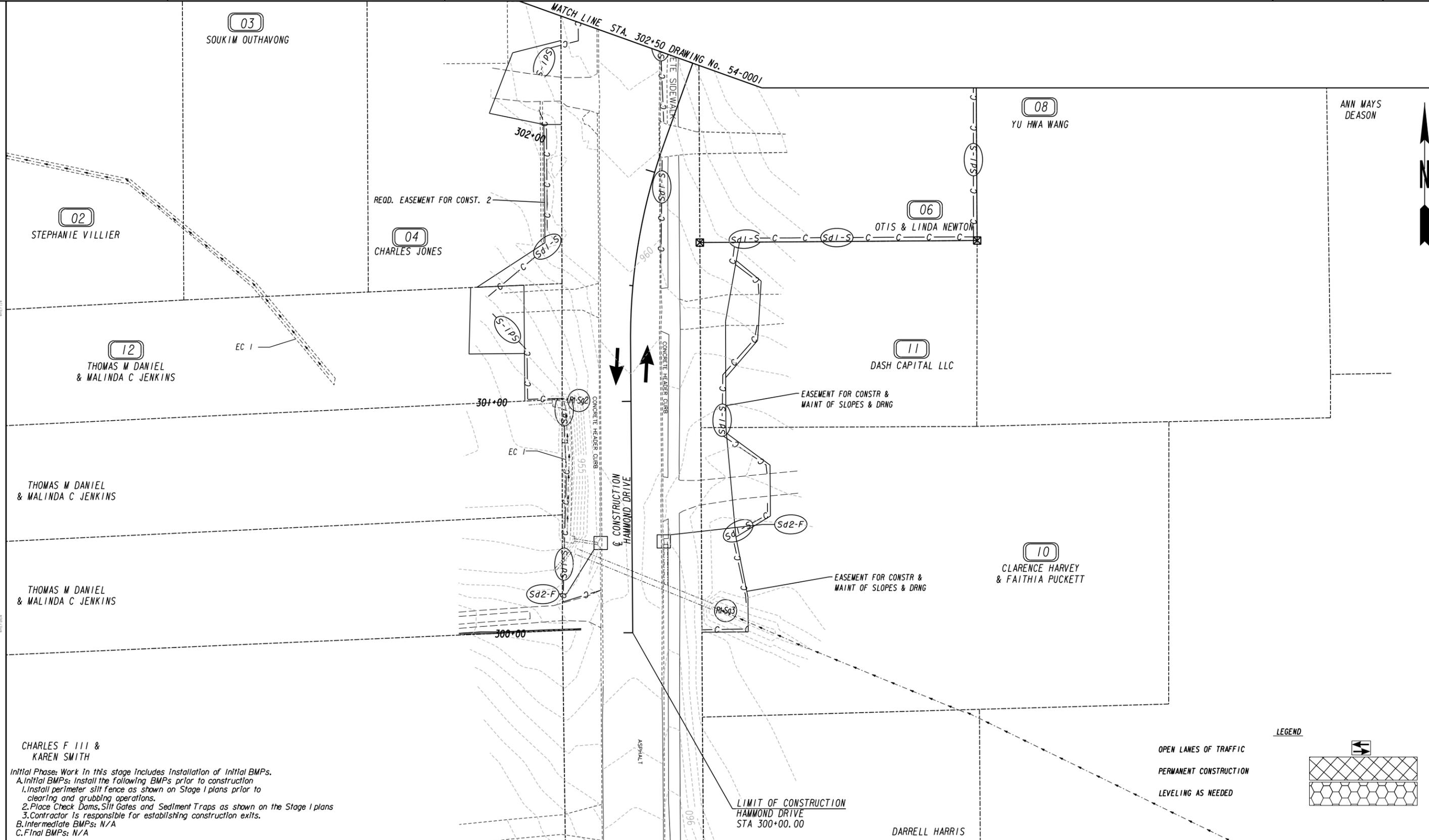
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	---C---F---
EASEMENT FOR CONSTR OF SLOPES	---C---F---
EASEMENT FOR CONSTR OF DRIVES	---C---F---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
<b>INITIAL PHASE BMP LOCATION DETAILS</b>			
<b>HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT</b>			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	<b>54-0001</b>	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

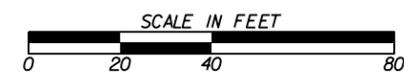


Initial Phase: Work in this stage includes installation of initial BMPs.  
 A. Initial BMPs: Install the following BMPs prior to construction  
 1. Install perimeter silt fence as shown on Stage I plans prior to clearing and grubbing operations.  
 2. Place Check Dams, Silt Gates and Sediment Traps as shown on the Stage I plans  
 3. Contractor is responsible for establishing construction exits.  
 B. Intermediate BMPs: N/A  
 C. Final BMPs: N/A

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	---C---F---
EASEMENT FOR CONSTR OF SLOPES	---C---
EASEMENT FOR CONSTR OF DRIVES	---F---

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

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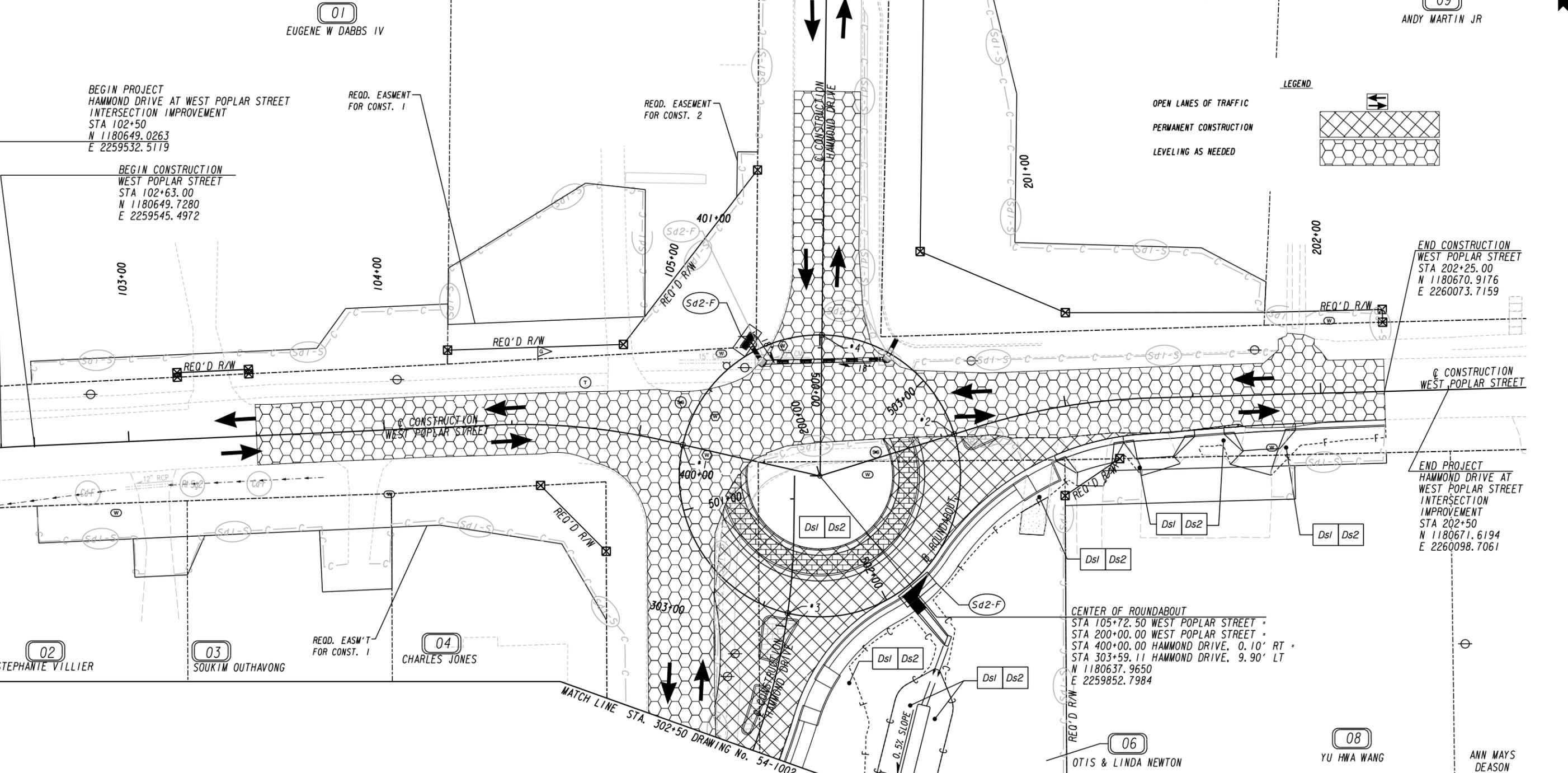


REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>INITIAL PHASE BMP LOCATION DETAILS</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

**LEGEND**

- OPEN LANES OF TRAFFIC
- PERMANENT CONSTRUCTION
- LEVELING AS NEEDED

Stage 1 & 2 Intermediate Phase:  
 A. Initial BMPs: N/A  
 B. Intermediate BMPs: Perform clearing and grubbing. While earthwork is progressing, do the following:  
 1. Add J-Hooks along the toes of embankments as directed in GDOT Construction Detail D-24C and adjust silt fence where required.  
 2. Install and maintain check dams, silt gates, and sediment traps where shown in Stage 2 plans until final BMPs can be installed.  
 3. Install mulch and temporary grassing as shown on the Stage 2 plans.  
 C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:  
 1. Permanent grassing  
 2. Rip Rap  
 3. Contractor to remove BMP's once stabilized.

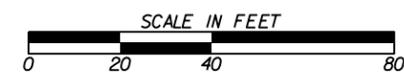


PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

-----e-----  
 ---C---F---  
 [Hatched Box]  
 [Hatched Box]  
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

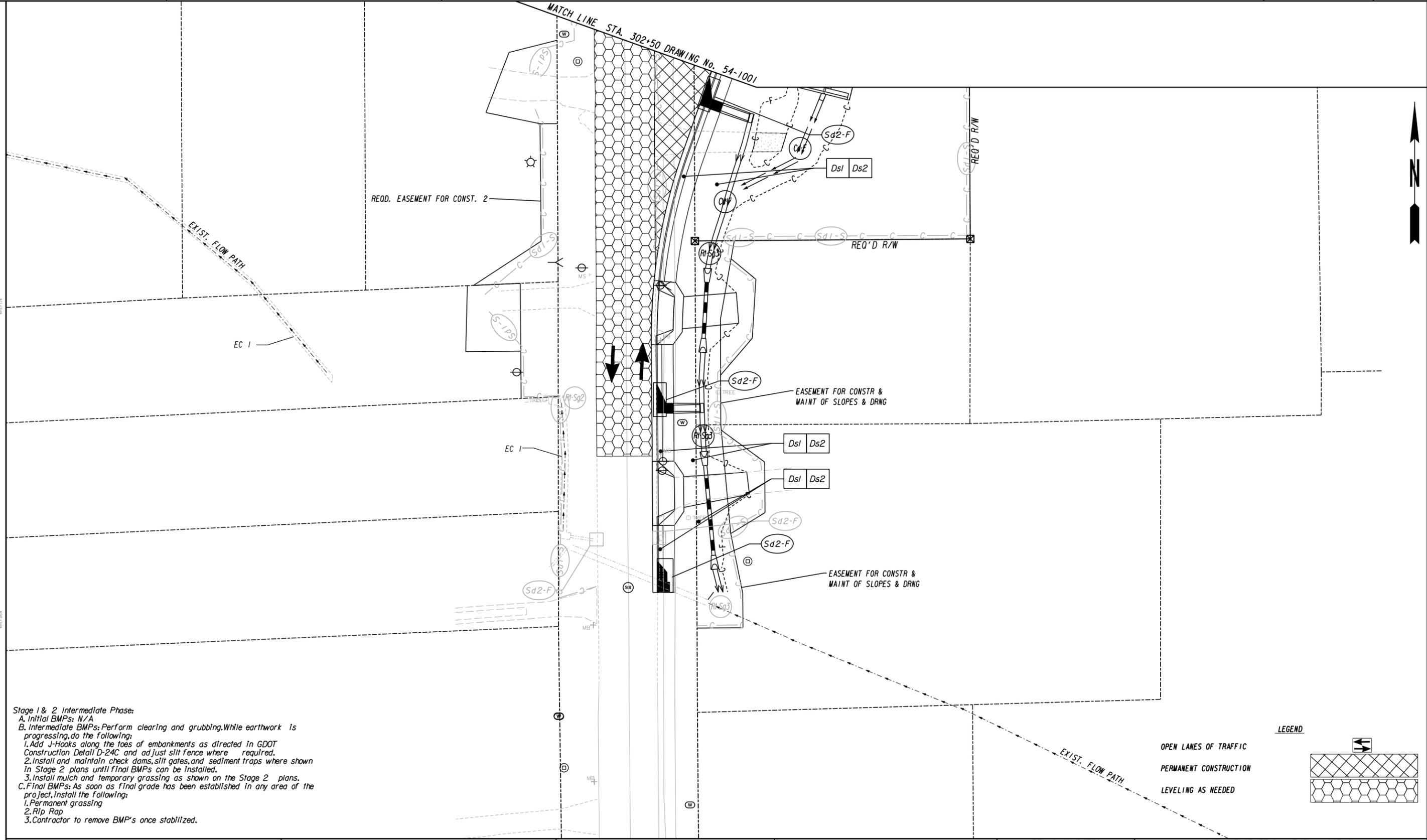
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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		STAGE I INTERMEDIATE PHASE BMP LOCATION DETAILS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-1001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

ANN MAYS DEASON

MATCH LINE STA. 302+50 DRAWING No. 54-1001



Stage 1 & 2 Intermediate Phase:

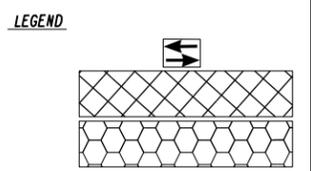
A. Initial BMPs: N/A

B. Intermediate BMPs: Perform clearing and grubbing. While earthwork is progressing, do the following:

1. Add J-Hooks along the toes of embankments as directed in GDOT Construction Detail D-24C and adjust silt fence where required.
2. Install and maintain check dams, silt gates, and sediment traps where shown in Stage 2 plans until final BMPs can be installed.
3. Install mulch and temporary grassing as shown on the Stage 2 plans.

C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:

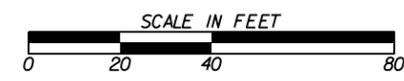
1. Permanent grassing
2. Rip Rap
3. Contractor to remove BMP's once stabilized.



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----C-----
CONSTRUCTION LIMITS	-----F-----
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Lines Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----h-----
REQ'D LIMIT OF ACCESS	-----s-----
REQ'D LIMIT OF ACCESS & R/W	-----v-----
ORANGE BARRIER FENCE	-----x-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----w-----

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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		STAGE 1 INTERMEDIATE PHASE BMP LOCATION DETAILS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		

DRAWING No.  
54-1002

Curve\* 1  
 PI Sta- 101+38.48  
 N= 1180643.9910  
 E= 2259417.5088  
 DELTA- 23°33'18.8" (RT)  
 D= 9°23'33.90"  
 T= 127.19  
 L= 250.78  
 R= 610.00  
 E= 13.12  
 D.S.= 35 MPH

Curve\* 2  
 PI Sta- 104+76.40  
 N= 1180659.2837  
 E= 2259758.6809  
 DELTA- 15°19'45.3" (RT)  
 D= 22°55'05.92"  
 T= 33.64  
 L= 66.89  
 R= 250.00  
 E= 2.25  
 D.S.= 30 MPH

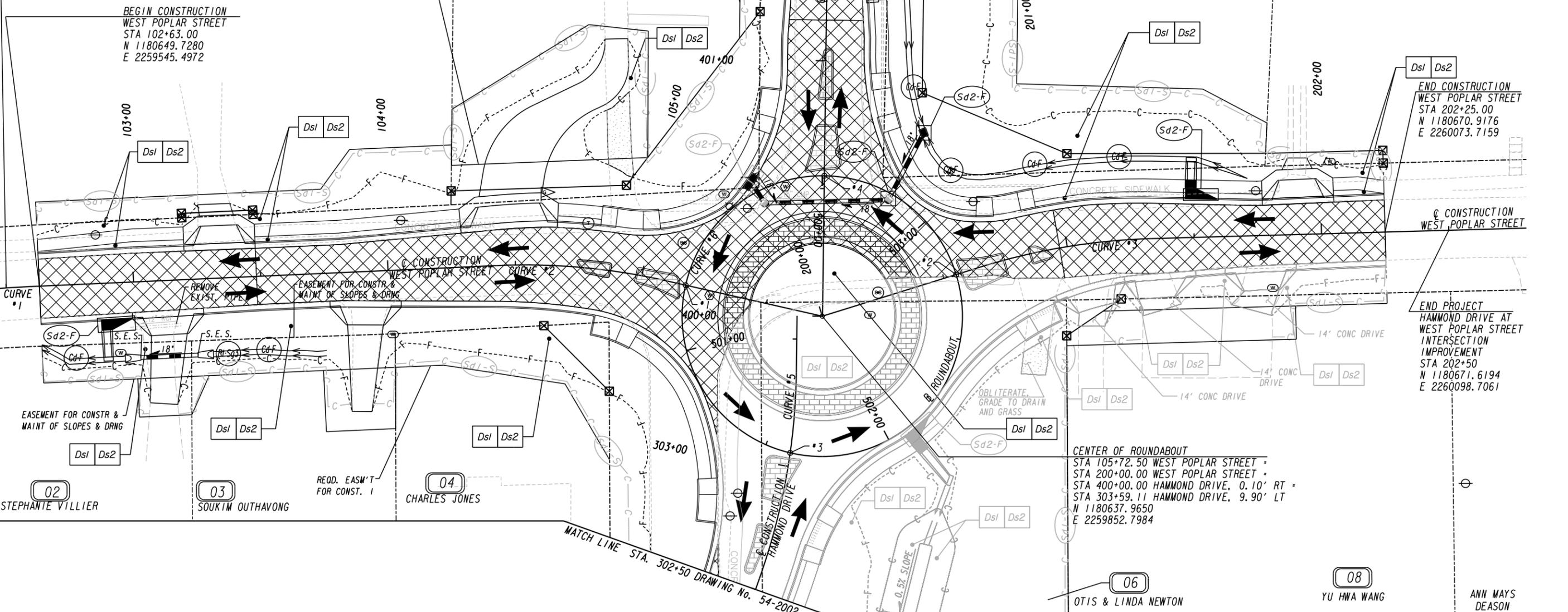
Curve\* 3  
 PI Sta- 200+99.21  
 N= 1180667.3743  
 E= 2259947.5489  
 DELTA- 15°38'05.8" (RT)  
 D= 22°55'05.92"  
 T= 34.32  
 L= 68.22  
 R= 250.00  
 E= 2.35  
 D.S.= 30 MPH

Curve\* 5  
 PI Sta- 302+96.10  
 N= 1180574.3290  
 E= 2259842.0741  
 DELTA- 18°52'52.4" (LT)  
 D= 22°55'05.92"  
 T= 41.57  
 L= 82.38  
 R= 250.00  
 E= 3.43  
 D.S.= 30 MPH

Curve\* 6 Start (ROUNDAABOUT)  
 PC Sta 500+00.00  
 N= 1180692.9650  
 E= 2259852.7984  
 DELTA-360°00'00.0" (LT)  
 L=345.58  
 R= 55.00

BEGIN PROJECT  
 HAMMOND DRIVE AT WEST POPLAR STREET  
 INTERSECTION IMPROVEMENT  
 STA 102+50  
 N 1180649.0263  
 E 2259532.5119

BEGIN CONSTRUCTION  
 WEST POPLAR STREET  
 STA 102+63.00  
 N 1180649.7280  
 E 2259545.4972



Stage 1 & 2 Intermediate Phase:  
 A. Initial BMPs: N/A  
 B. Intermediate BMPs: Perform clearing and grubbing. While earthwork is progressing, do the following:  
 1. Add J-Hooks along the toes of embankments as directed in GDOT Construction Detail D-24C and adjust silt fence where required.  
 2. Install and maintain check dams, silt gates, and sediment traps where shown in Stage 2 plans until final BMPs can be installed.  
 3. Install mulch and temporary grassing as shown on the Stage 2 plans.  
 C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:  
 1. Permanent grassing  
 2. Rip Rap  
 3. Contractor to remove BMP's once stabilized.

LEGEND  
  
 OPEN LANES OF TRAFFIC  
 PERMANENT CONSTRUCTION  
 LEVELING AS NEEDED

05 LOREN GUILD  
 07 UNITED BANK  
 09 ANDY MARTIN JR

02 STEPHANTE VILLIER  
 03 SOUKIM OUTHAVONG  
 04 CHARLES JONES

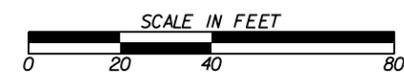
CENTER OF ROUNDABOUT  
 STA 105+72.50 WEST POPLAR STREET  
 STA 200+00.00 WEST POPLAR STREET  
 STA 400+00.00 HAMMOND DRIVE, 0.10' RT  
 STA 303+59.11 HAMMOND DRIVE, 9.90' LT  
 N 1180637.9650  
 E 2259852.7984

06 OTIS & LINDA NEWTON  
 08 YU HWA WANG  
 ANN MAYS DEASON

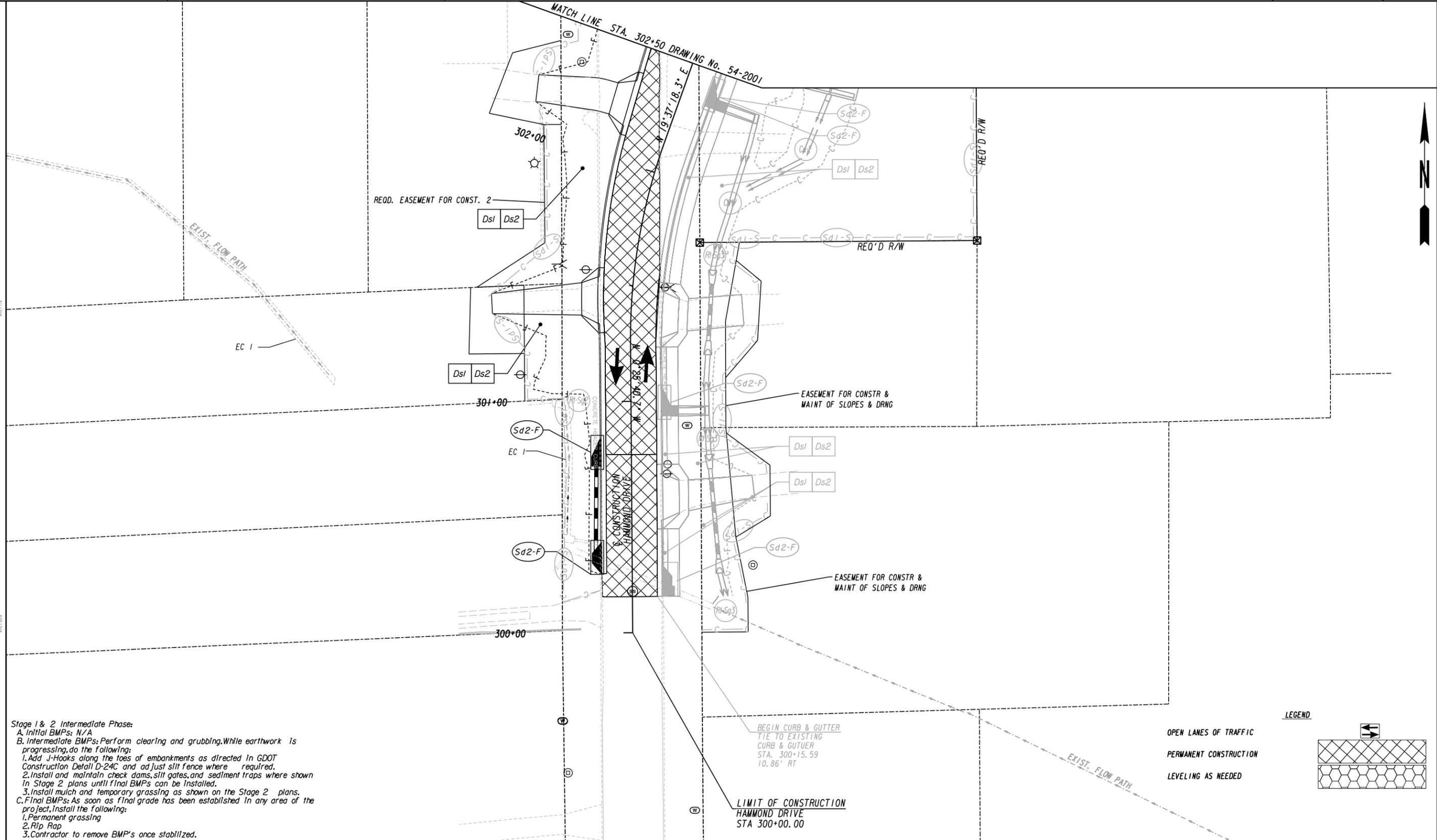
PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA  
 (SEE ERIT TABLE)

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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		STAGE 2 INTERMEDIATE PHASE BMP LOCATION DETAILS	
		HAMMOND DRIVE AT WEST POPLAR STREET	
		INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-2001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



Stage 1 & 2 Intermediate Phase:

A. Initial BMPs: N/A

B. Intermediate BMPs: Perform clearing and grubbing. While earthwork is progressing, do the following:

1. Add J-Hooks along the toes of embankments as directed in GDOT Construction Detail D-24C and adjust silt fence where required.
2. Install and maintain check dams, silt gates, and sediment traps where shown in Stage 2 plans until final BMPs can be installed.
3. Install mulch and temporary grassing as shown on the Stage 2 plans.

C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:

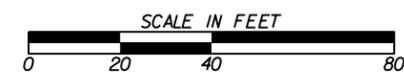
1. Permanent grassing
2. Rip Rap
3. Contractor to remove BMP's once stabilized.

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----C-----F-----
CONSTRUCTION LIMITS	-----X-----
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	-----/-----
EASEMENT FOR CONSTR OF SLOPES	-----\-----
EASEMENT FOR CONSTR OF DRIVES	-----X-----

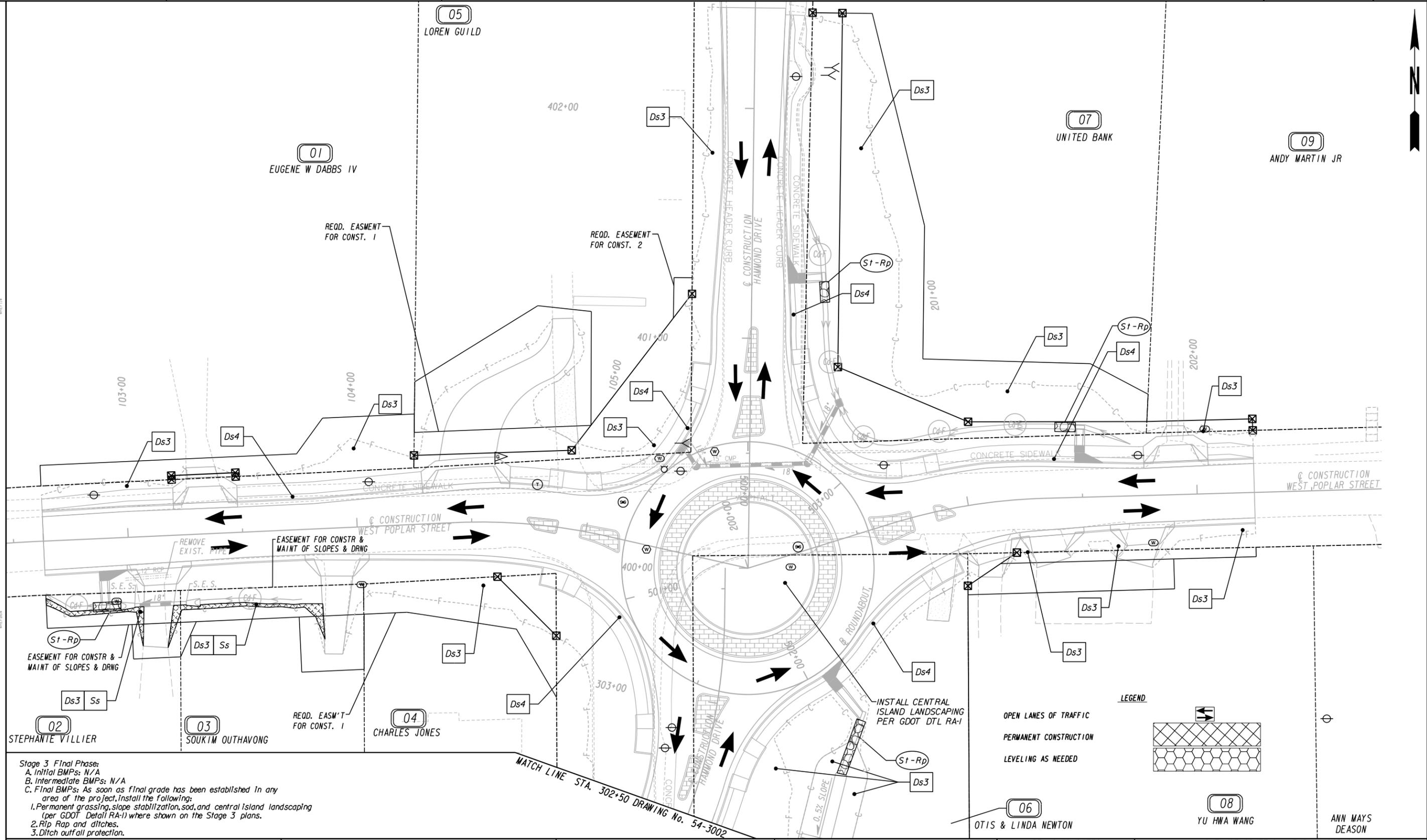
BEGIN LIMIT OF ACCESS.....BLA	-----o-----o-----
END LIMIT OF ACCESS.....ELA	-----  -----  -----
REQ'D LIMIT OF ACCESS	-----o-----o-----
REQ'D LIMIT OF ACCESS & R/W	-----  -----  -----
ORANGE BARRIER FENCE	-----●-----●-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----v-----v-----

**H&L**  
A BCC COMPANY

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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		STAGE 2 INTERMEDIATE PHASE BMP LOCATION DETAILS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-2002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

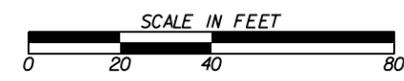


Stage 3 Final Phase:  
 A. Initial BMPs: N/A  
 B. Intermediate BMPs: N/A  
 C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:  
 1. Permanent grassing, slope stabilization, sod, and central island landscaping (per GDOT Detail RA-1) where shown on the Stage 3 plans.  
 2. Rip Rap and ditches.  
 3. Ditch outfall protection.

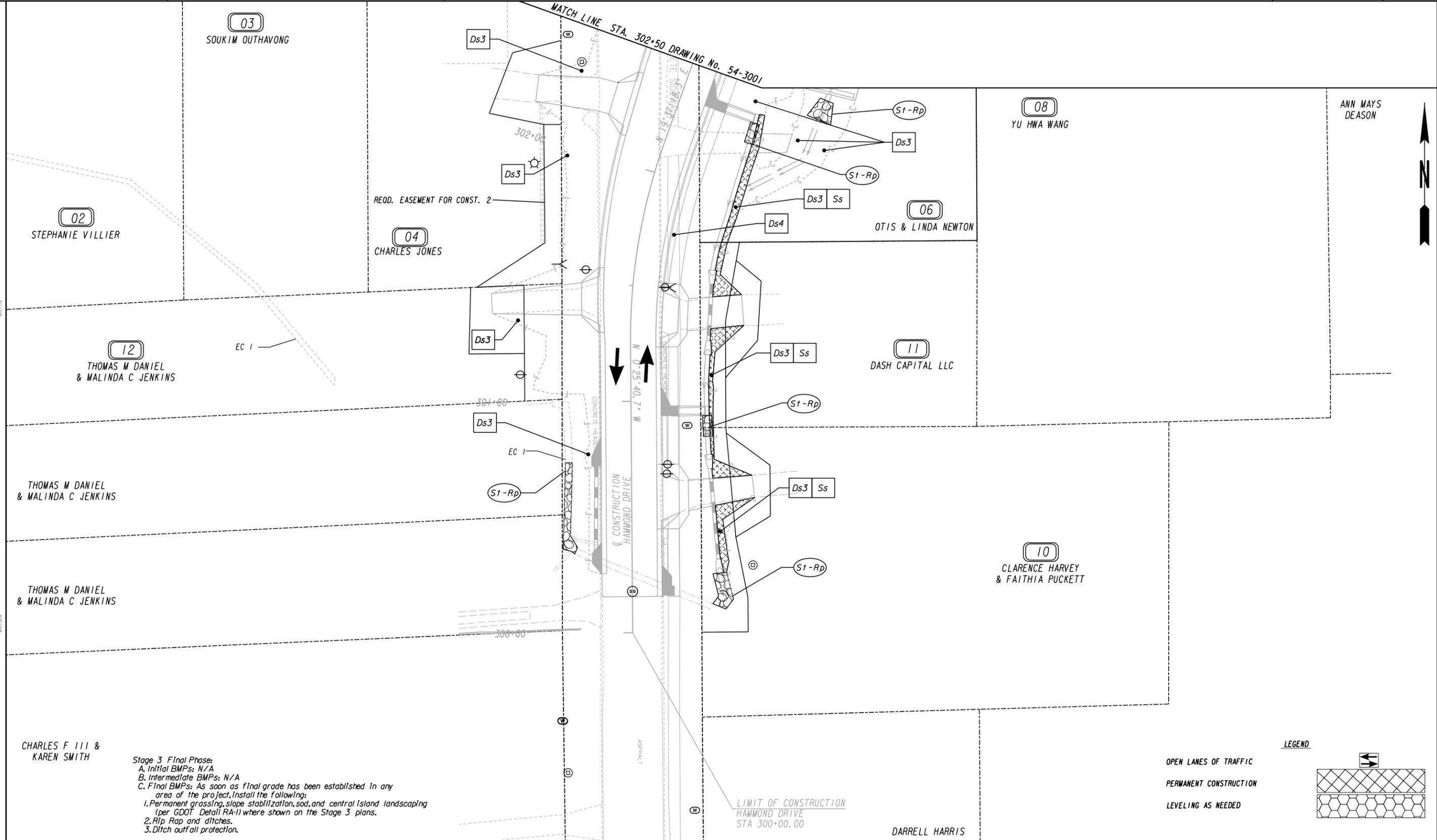
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG	---C---F---
EASEMENT FOR CONSTR OF SLOPES	---C---F---
EASEMENT FOR CONSTR OF DRIVES	---C---F---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

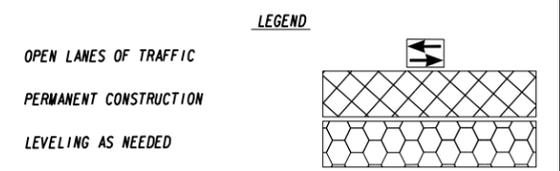
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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>STAGE 3 FINAL PHASE BMP LOCATION DETAILS</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-3001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



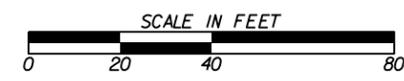
Stage 3 Final Phase:  
 A. Initial BMPs: N/A  
 B. Intermediate BMPs: N/A  
 C. Final BMPs: As soon as final grade has been established in any area of the project, install the following:  
 1. Permanent grassing, slope stabilization, sod, and central island landscaping (per GDOT Detail RA-1) where shown on the Stage 3 plans.  
 2. Rip Rap and ditches.  
 3. Ditch out all protection.



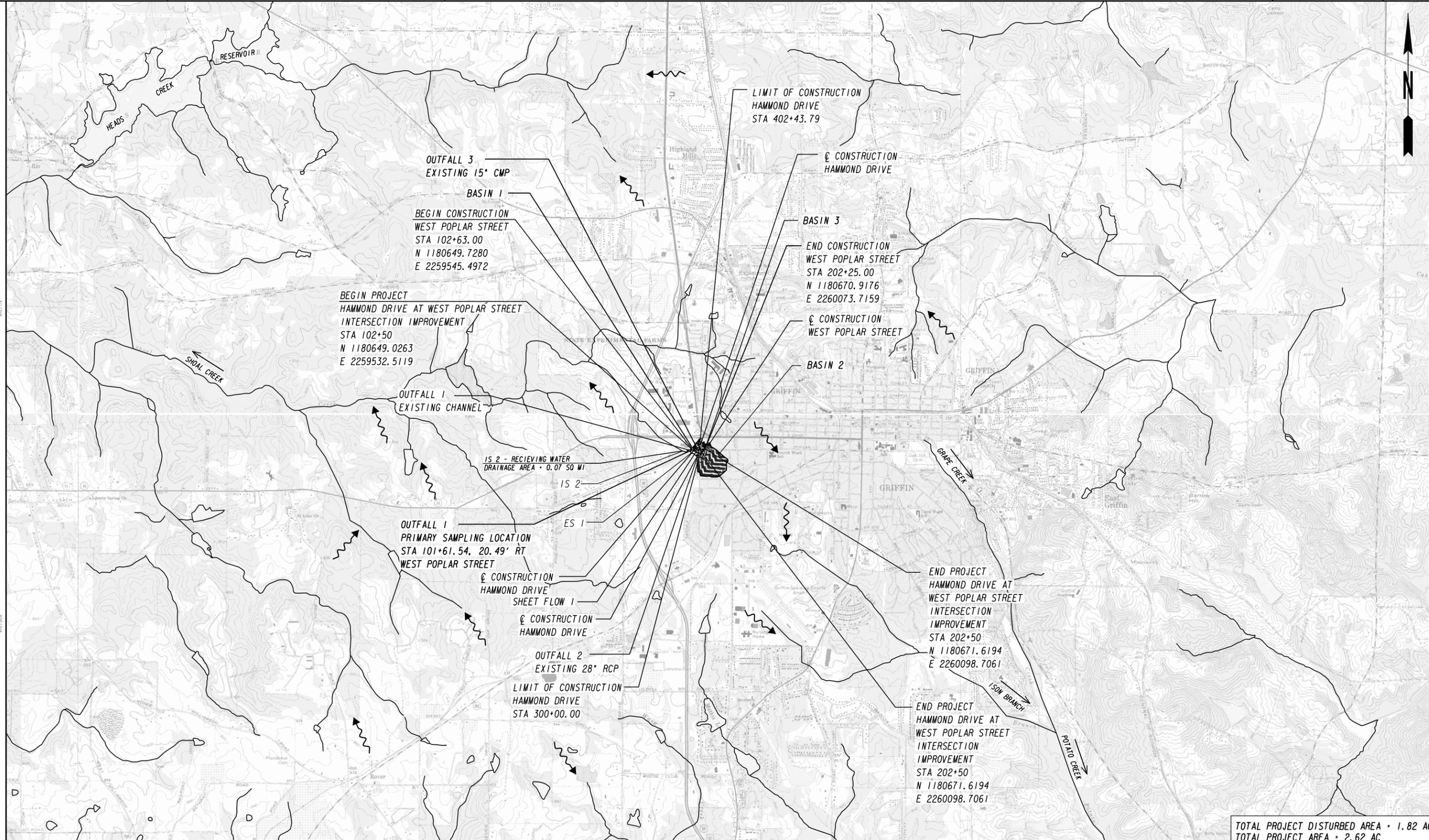
PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR & MAINT OF SLOPES & DRNG  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 REQ'D LIMIT OF ACCESS  
 REQ'D LIMIT OF ACCESS & R/W  
 ORANGE BARRIER FENCE  
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>STAGE 3 FINAL PHASE BMP LOCATION DETAILS</b> HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:		
BACKCHECKED:	DATE:		
CORRECTED:	DATE:	DRAWING No.	54-3002
VERIFIED:	DATE:		

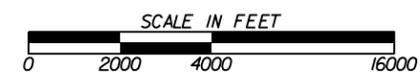


TOTAL PROJECT DISTURBED AREA - 1.82 AC  
 TOTAL PROJECT AREA - 2.62 AC

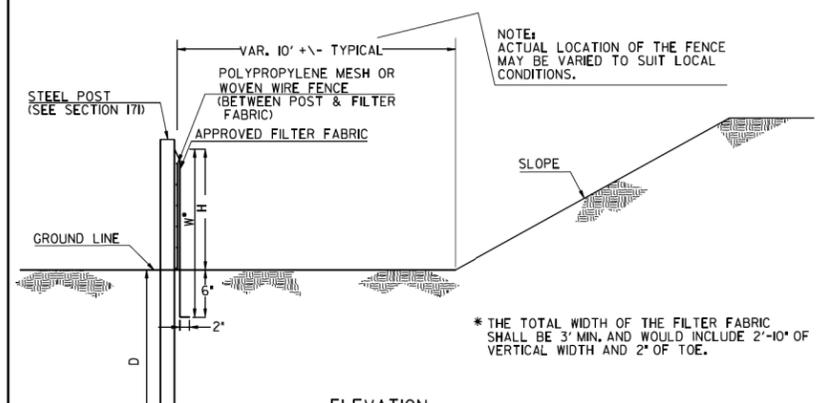
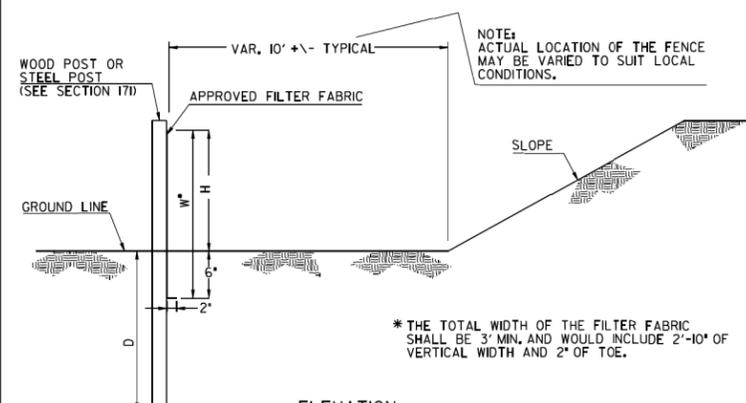
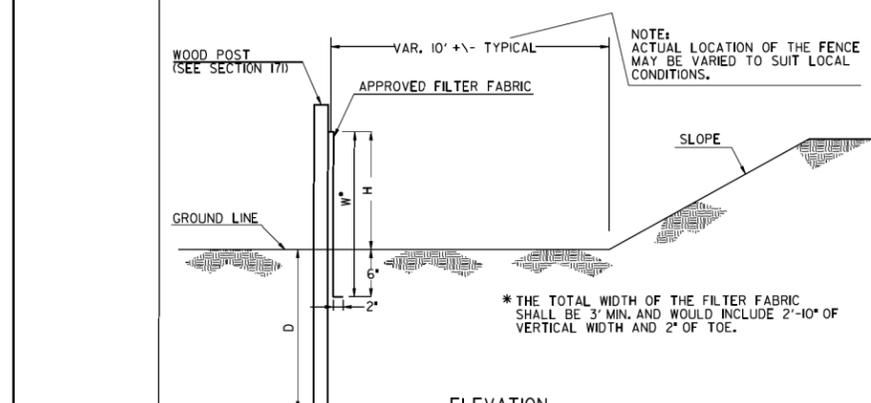
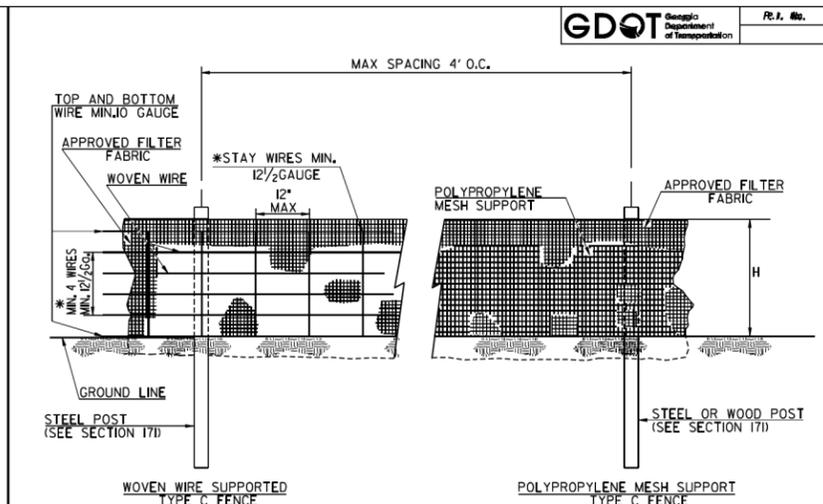
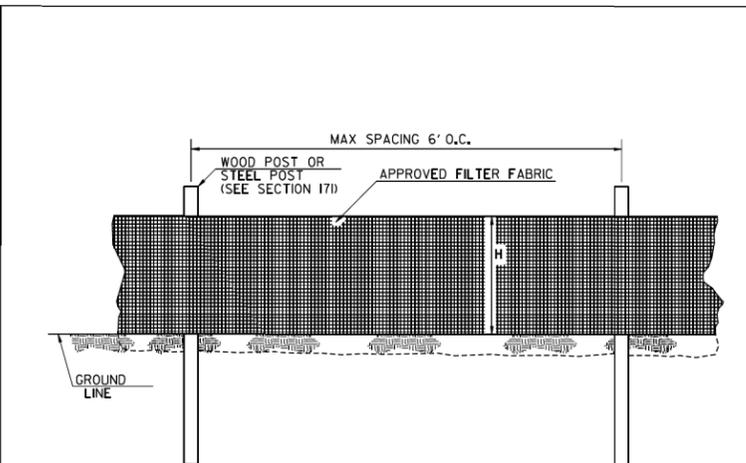
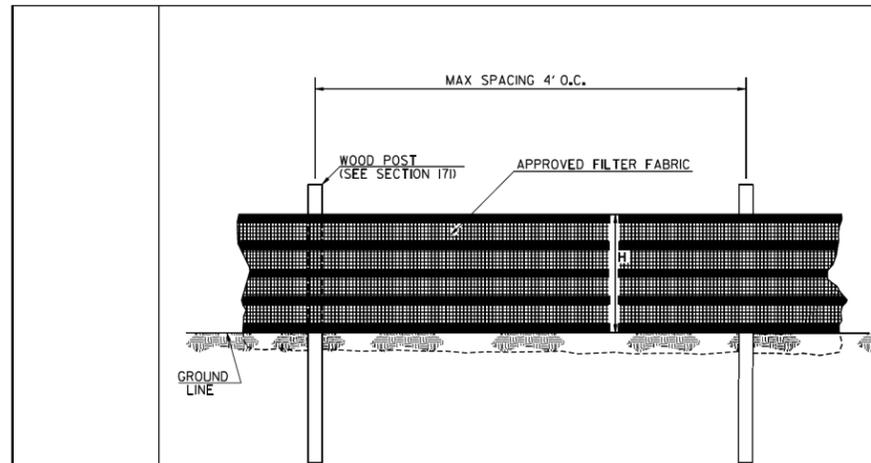
REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS	
WATERSHED MAP SITE MONITORING PLAN	
HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:
DRAWING No.	
55-0001	

**H&L**  
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 Marietta, Georgia 30066  
 770.424.1668







SINGLE ROW TYPE C SILT FENCE WITH HIGH TENSILE POLYPROPYLENE INTEGRATED SUPPORT WOVEN FABRIC

SINGLE ROW TYPE A SILT FENCE

SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT OR POLYPROPYLENE MESH SUPPORT

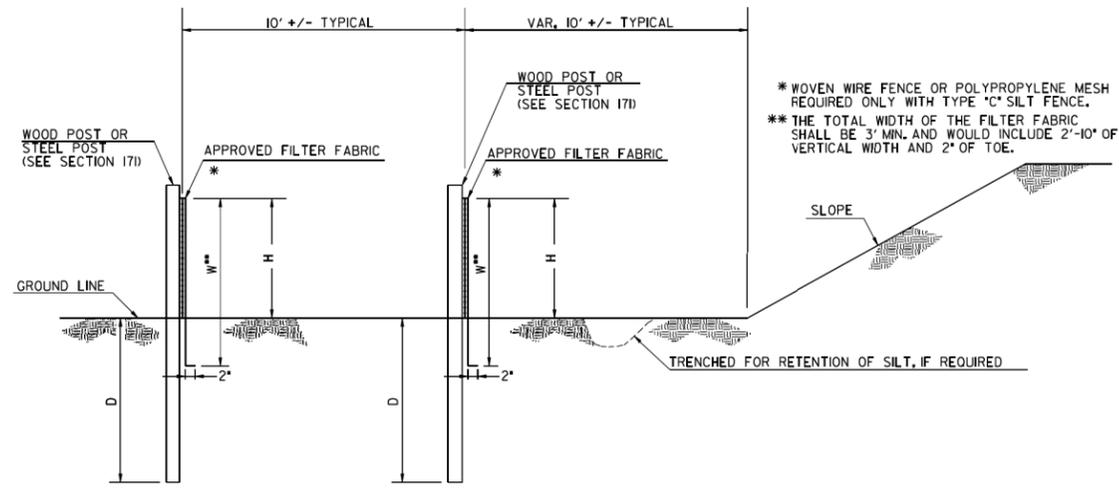
FENCE TYPE	POST LENGTH	H	D	W*	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

- NOTES:
- WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
  - SEE SECTION 171 FOR PLACEMENT OF NAILS OR STAPLES FOR TYPE A AND TYPE C FENCES.
  - THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
  - TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
  - SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
  - SEE SECTION 894 FOR FENCING SPECIFICATIONS.
  - SEE OPL-36 FOR A LIST OF APPROVED SILT FENCE FABRIC.
  - TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

09-2022		DATE		DEPARTMENT OF TRANSPORTATION	
ADDED HIGH TENSILE POLYPROPYLENE INTEGRATED FABRIC		REVISION		STATE OF GEORGIA	
BY				CONSTRUCTION DETAIL	
				TEMPORARY SILT FENCE	
		JANUARY 2011		NUMBER D-24A	
		NO SCALE		1 OF 4	

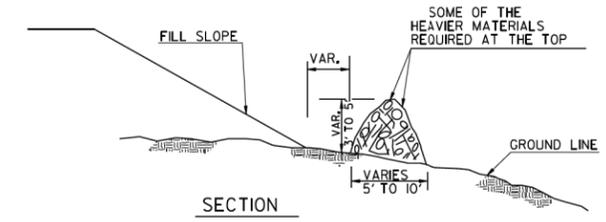
REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		EROSION CONTROL CONSTRUCTION DETAILS	
		HAMMOND DRIVE AT WEST POPLAR STREET	
		INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



ELEVATION  
DOUBLE ROW SILT FENCE

FENCE TYPE	POST LENGTH	H	D	W**	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

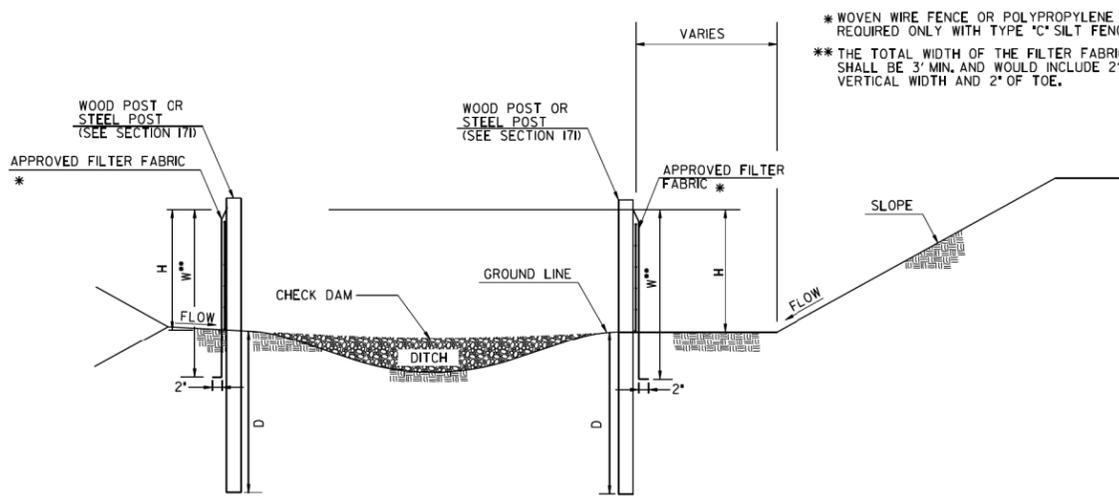


NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

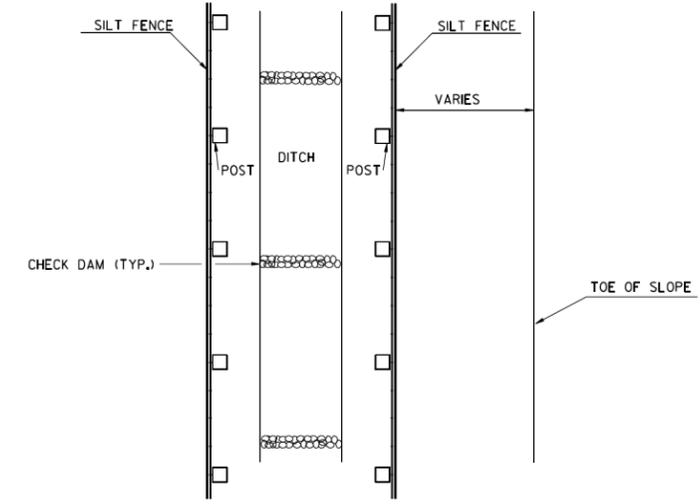


NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

FRONT VIEW  
BRUSH BARRIER DETAILS  
(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

SILT FENCE  
PERIMETER INSTALLATION ALONG DITCH SECTION

FENCE TYPE	POST LENGTH	H	D	W**	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

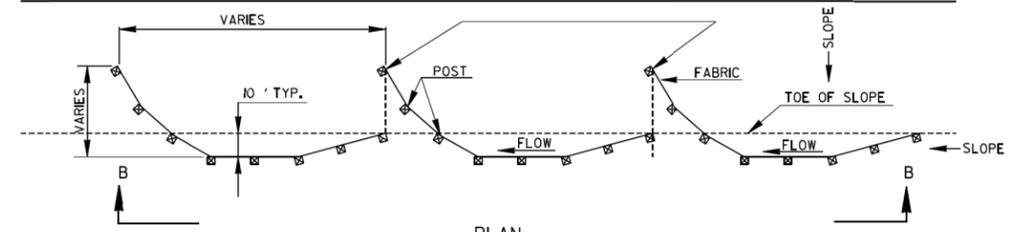
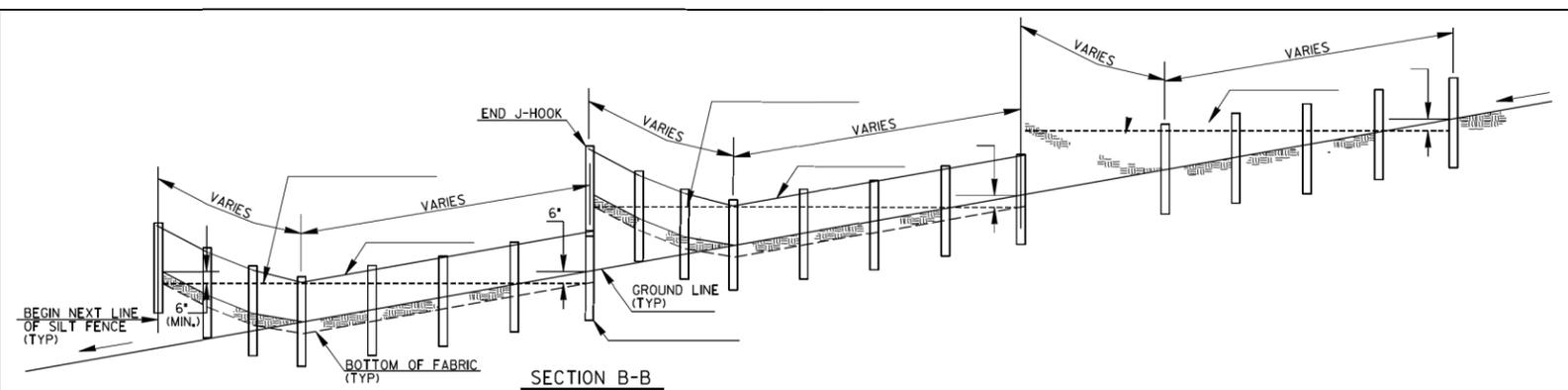
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER	
REV. AND REDRAWN JAN. 2011 NO SCALE	NUMBER D-24B (SHEET 2 OF 4)

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		EROSION CONTROL CONSTRUCTION DETAILS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

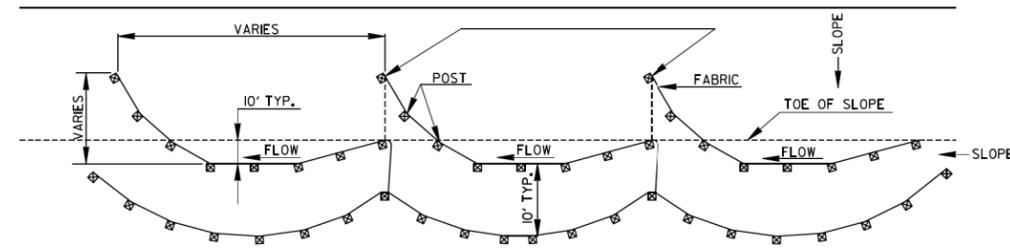
**H&L**  
A BCC COMPANY

Heath & Lineback  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN  
SINGLE ROW SILT FENCE

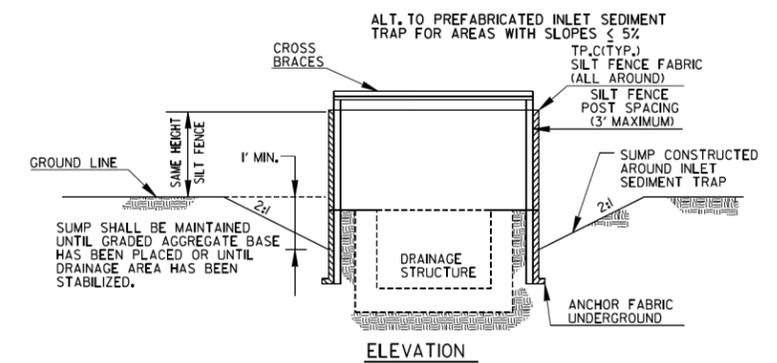


PLAN  
DOUBLE ROW SILT FENCE

SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A OR TYPE C	100' ±
2% TO 3%	TYPE A OR TYPE C	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

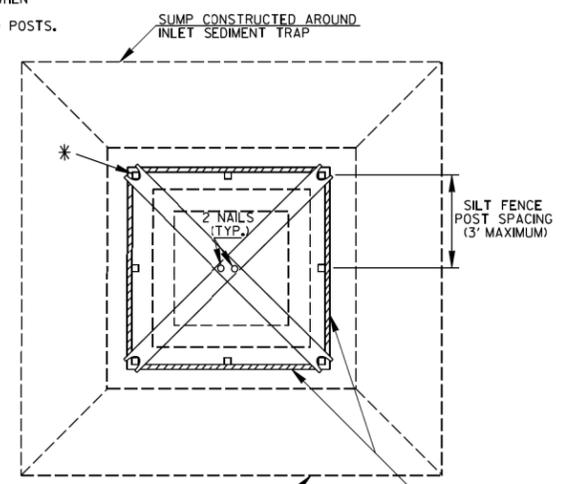
- NOTE:  
1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.  
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

TYPICAL LOCATION AROUND DROP INLETS



ELEVATION

\* CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.

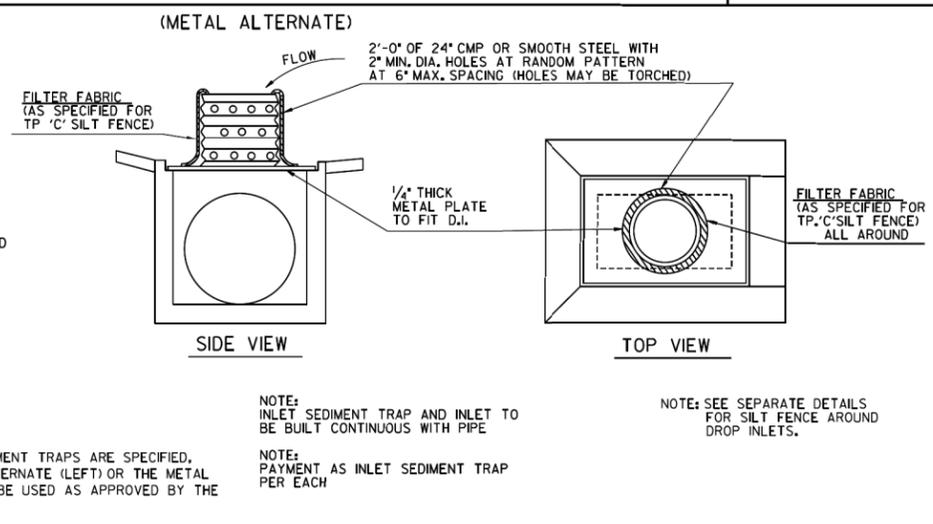
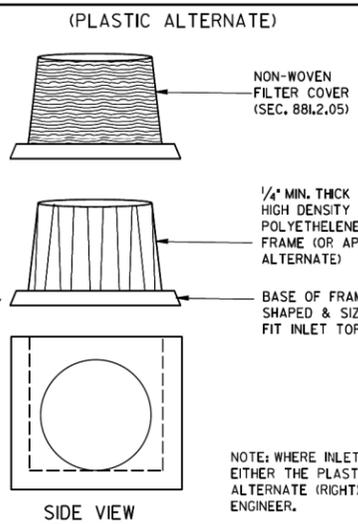


PLAN

CROSS BRACES:  
TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:  
PAYMENT AS INLET SEDIMENT TRAP PER EACH.  
NOTE:  
SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

- NOTE:  
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.
- TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE
- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
  - PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
  - SLIDE THE FILTER OVER THE FRAME.
  - FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
  - BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
- NOTE:  
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.



INLET SEDIMENT TRAP - FOR DROP INLETS

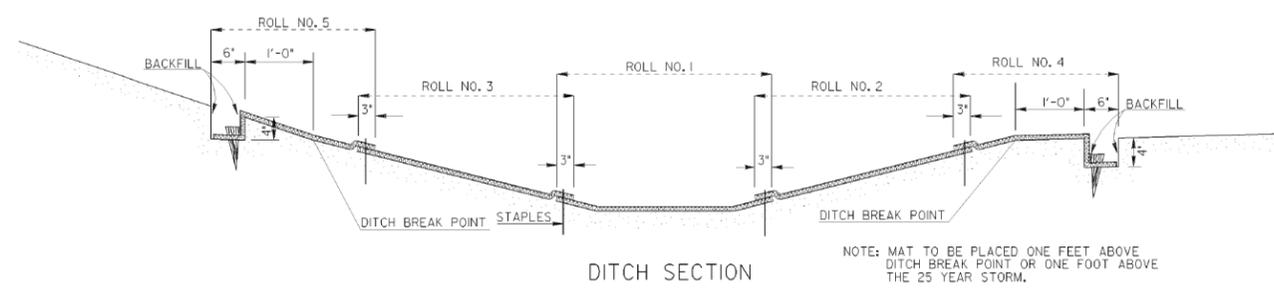
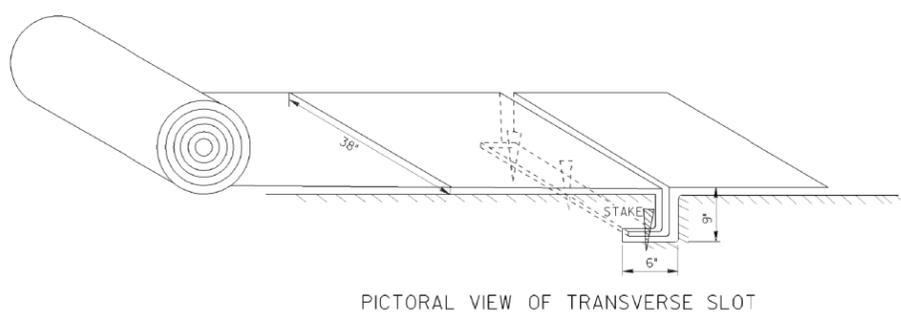
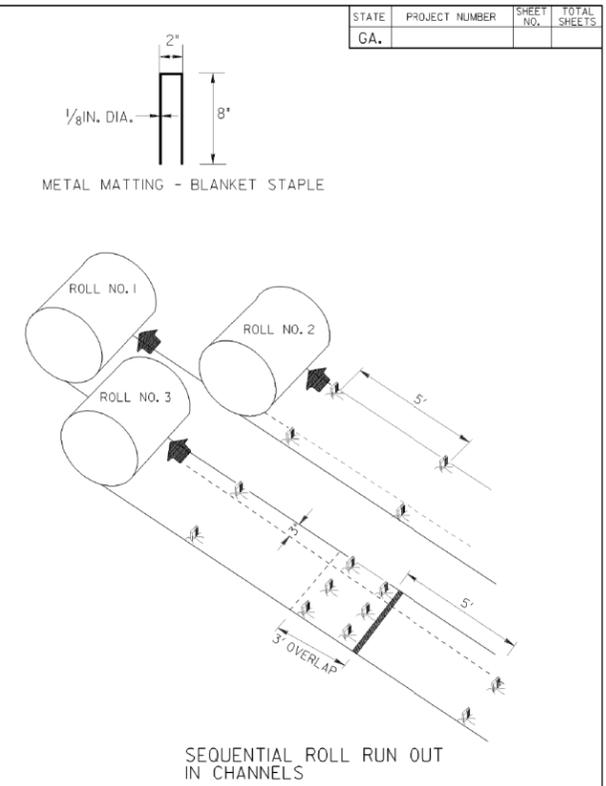
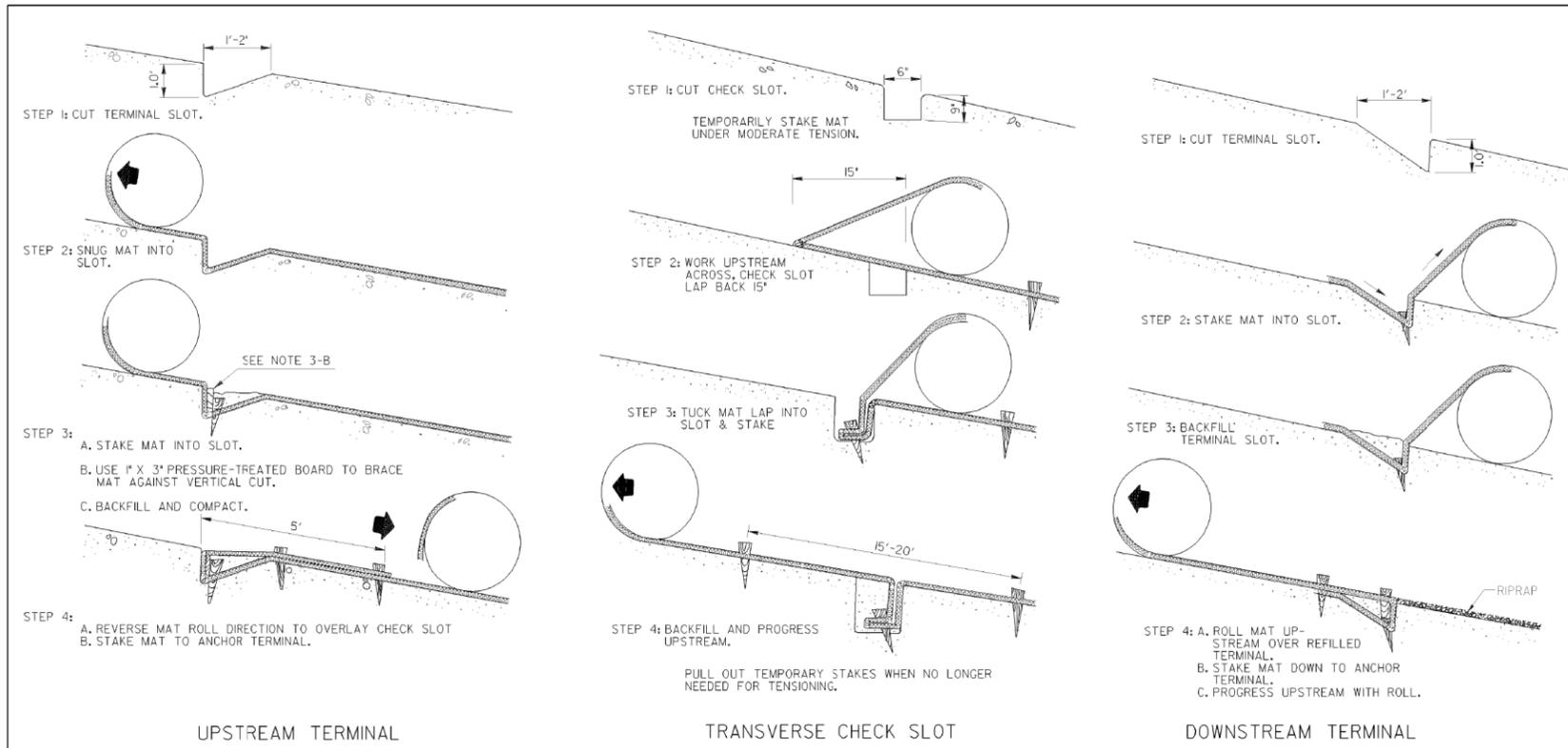
09-2022		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
PLACEMENT	CLARIFICATION	REVISION	DATE	CONSTRUCTION DETAILS	
				TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
BAS	BY	JANUARY 2011 NO SCALE		NUMBER D-24C (SHEET 3 OF 4)	

REVISION DATES

CITY OF GRIFFIN - PUBLIC WORKS			
EROSION CONTROL CONSTRUCTION DETAILS HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

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2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

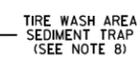
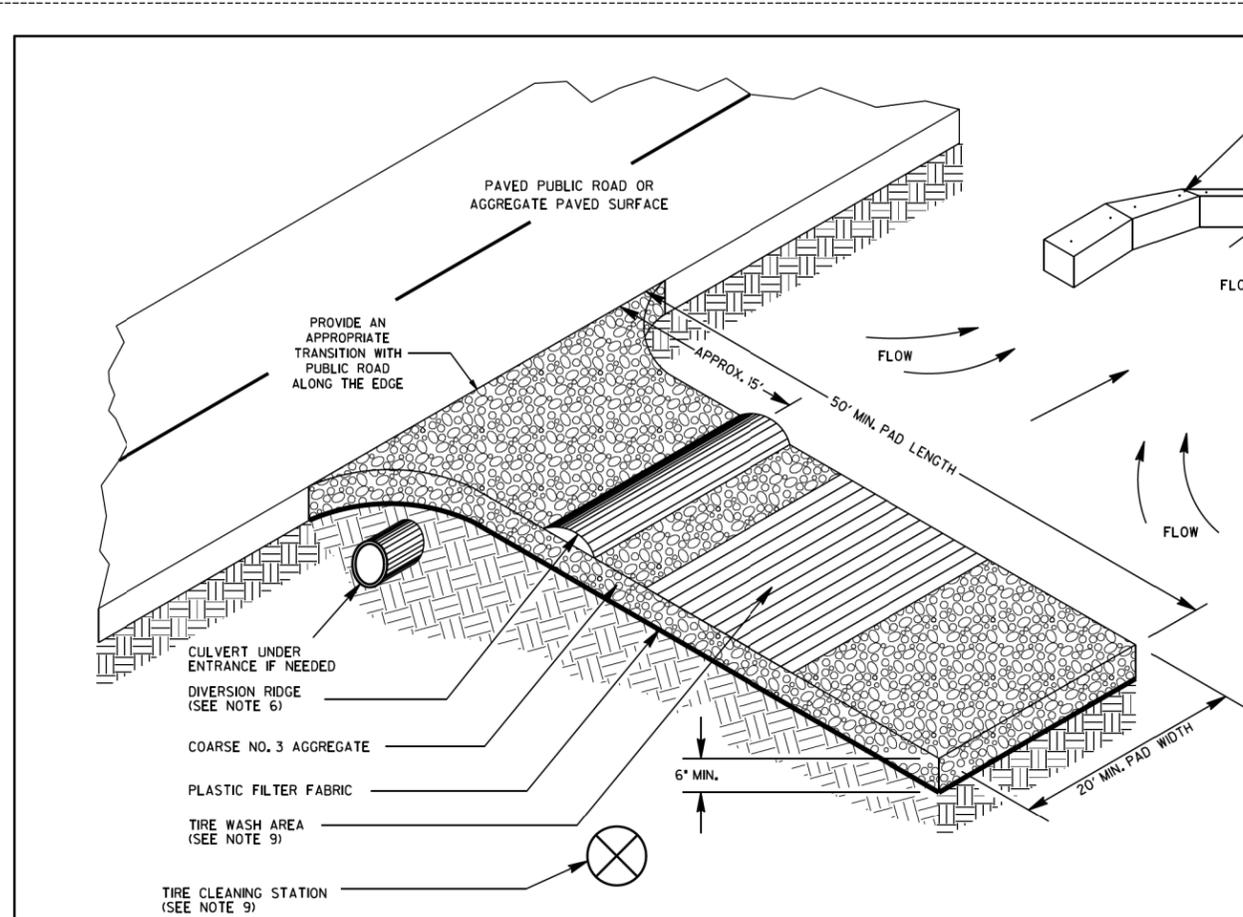
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REVISED SHEET LAYOUT & ADDED DITCH SECTION, ADDED METAL STAPLE.		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
NO SCALE		DATE	CONSTRUCTION DETAILS PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MATS) INSTALLATION ON DITCHES
AUGUST 1988		NUMBER	D-35

I:\18\2017\9:32:29 AM \1\000T-DGN\1\00PLOT\02\FY18\_KT\p8000.dgn gowns V:\GAR\1\Rev. Construction Details\18-35\18-35.dwg 00-006

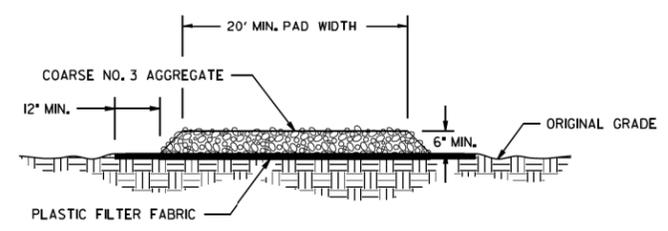
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 106 INCH U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER, THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK. THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.  
  
THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE, DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS, THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER, ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

ENTRANCE ELEVATION



PAY ITEM#	DESCRIPTION	UNIT
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	(EA)
<b>PAY ITEM# FOR FIELD USE ONLY ACCORDING TO SECTION 163</b>		
163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION	(DAY)

11-24-20	DESIGNED	11-24-20	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA  <b>CONSTRUCTION DETAILS</b>  CONSTRUCTION EXIT  NO SCALE FEBRUARY 2001  NUMBER <b>D-41</b>
04-18-18	DRAWN	04-18-18	DATE	
04-22-16	CHECKED	04-22-16	DATE	
01-19-11	BY	01-19-11	DATE	

REVISION DATES

NO.	DATE	DESCRIPTION

**CITY OF GRIFFIN - PUBLIC WORKS**

**EROSION CONTROL CONSTRUCTION DETAILS**

**HAMMOND DRIVE AT WEST POPLAR STREET**

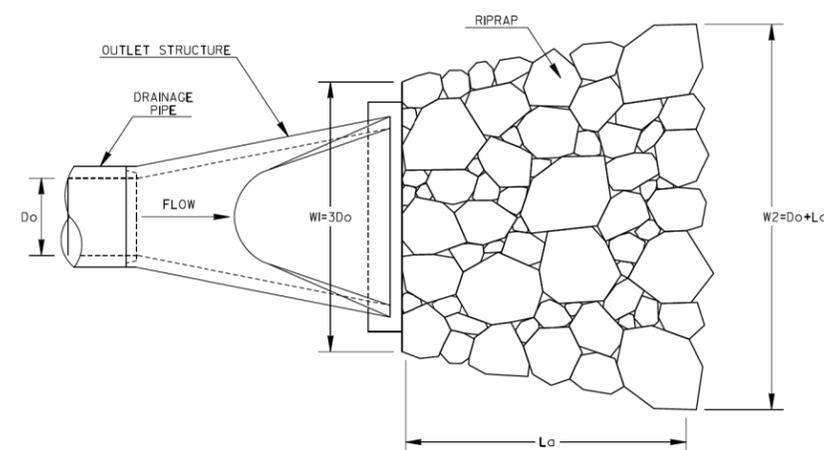
**INTERSECTION IMPROVEMENT**

CHECKED:	DATE:	DRAWING No. <b>56-0006</b>
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

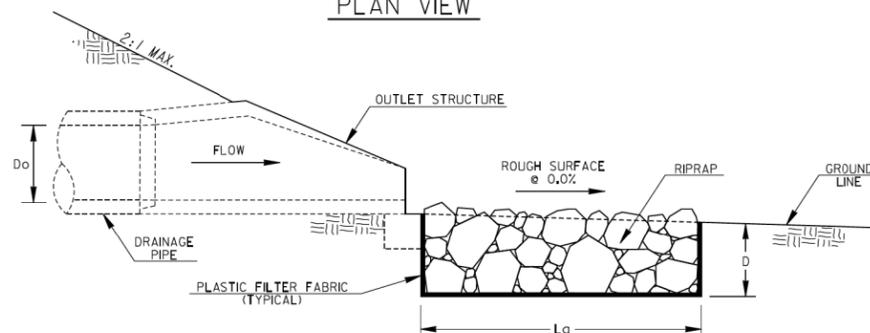
**Heath & Lineback**  
 2390 Canton Road | Building 200  
 Marietta, Georgia 30066  
 770.424.1668

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

### OUTLET TO FLAT AREA

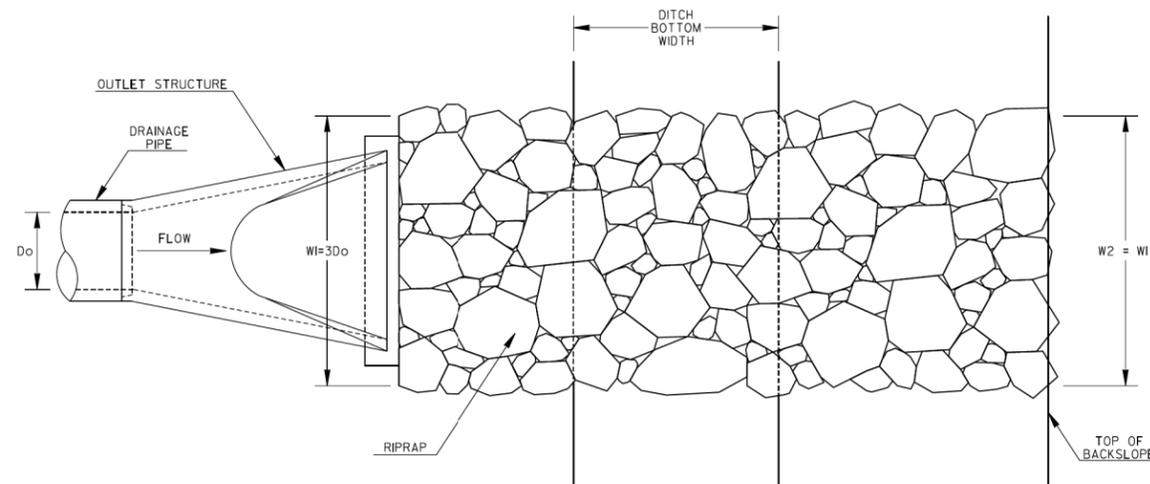


PLAN VIEW

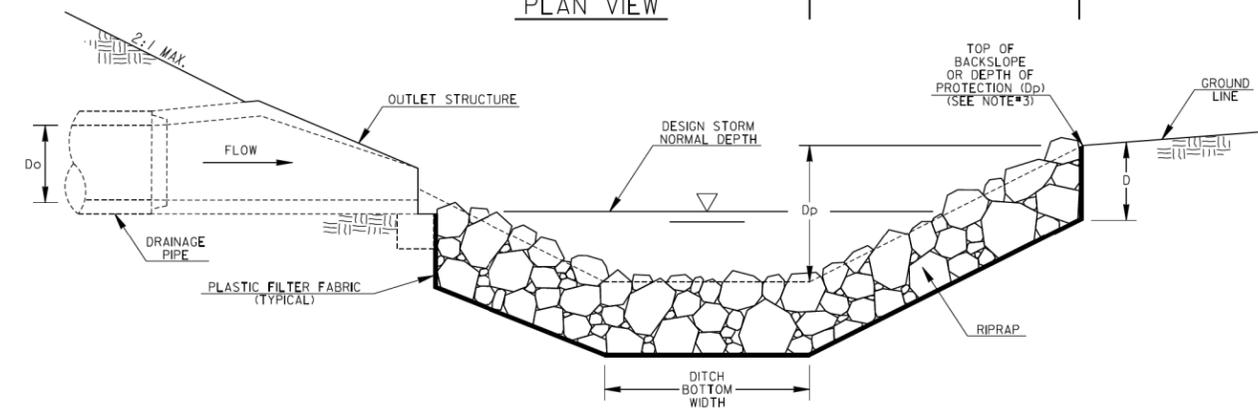


PROFILE VIEW

### OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

#### GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD #20, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (Wi), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.  
THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
- IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.  
IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.  
IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

- Do = PIPE DIAMETER
- Q = DESIGN STORM FLOW RATE
- V = DESIGN STORM VELOCITY
- Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
- La = APRON LENGTH
- Wi = APRON WIDTH UPSTREAM
- W2 = APRON WIDTH DOWNSTREAM
- d50 = AVERAGE STONE DIAMETER
- D = INSTALLATION DEPTH
- Dp = DEPTH OF PROTECTION

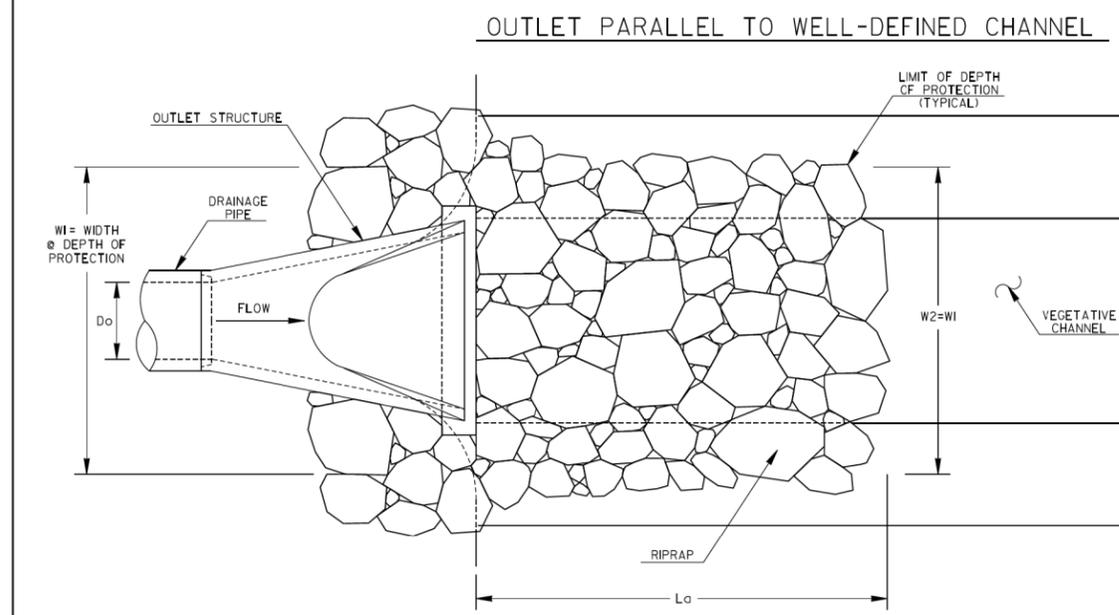
RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS	
RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)	
NO SCALE	4-22-2016
DESIGNED BY: DLE	NUMBER: D-55A
DRAWN BY: DLE	
TRACED BY: _____	
CHECKED BY: _____	

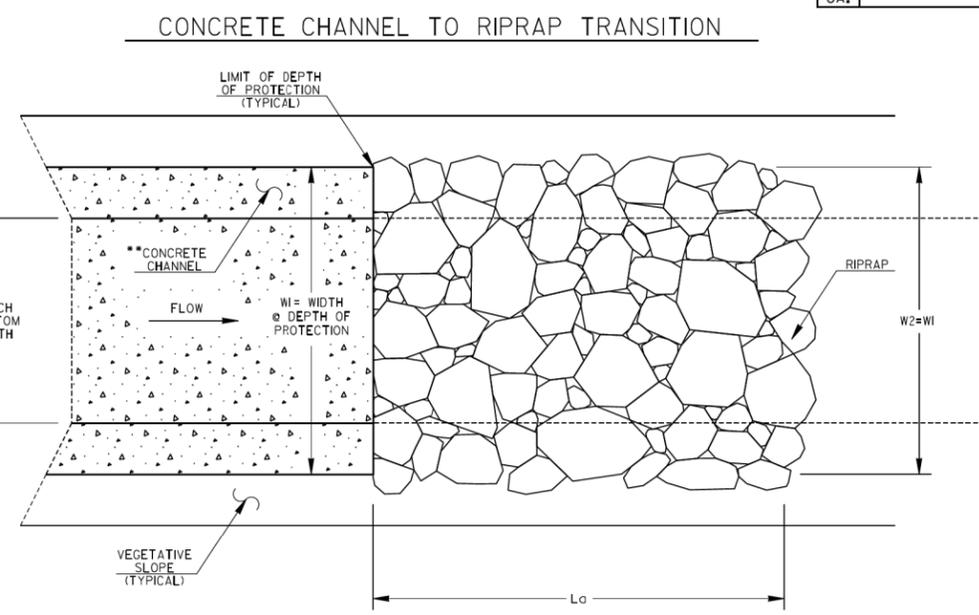
**Heath & Lineback**  
2390 Canton Road | Building 200  
Marietta, Georgia 30066  
770.424.1668

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>EROSION CONTROL CONSTRUCTION DETAILS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0007	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

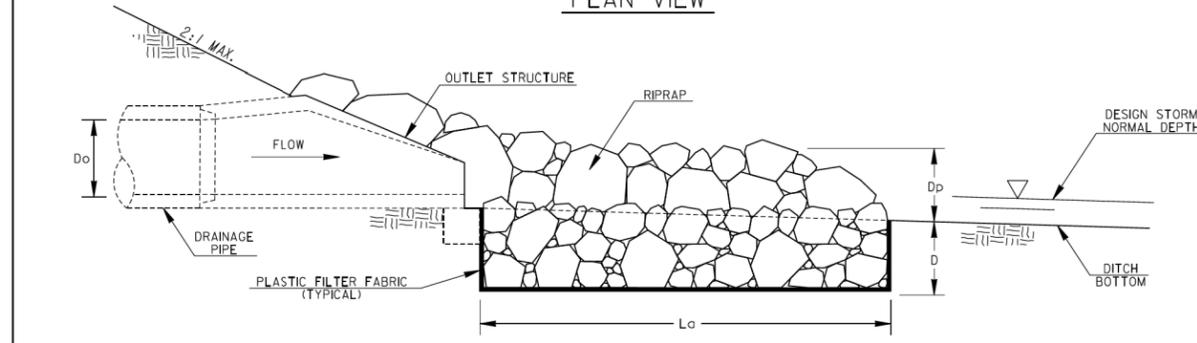


PLAN VIEW

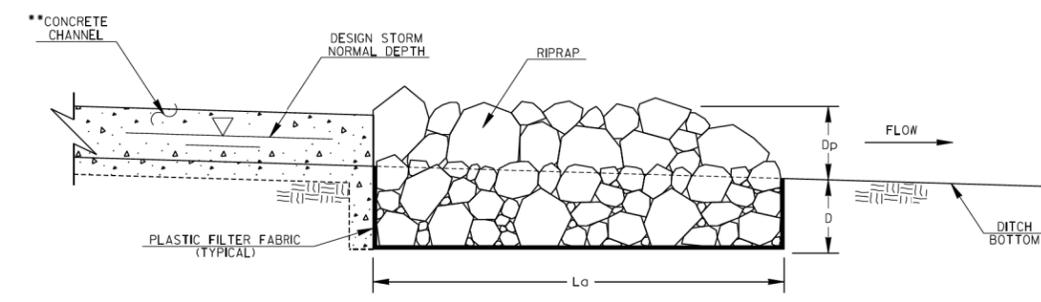


PLAN VIEW

\*\*REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION



PROFILE VIEW



PROFILE VIEW

GENERAL NOTES:

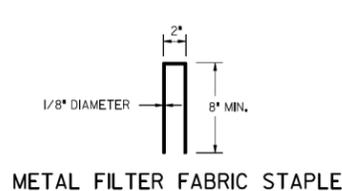
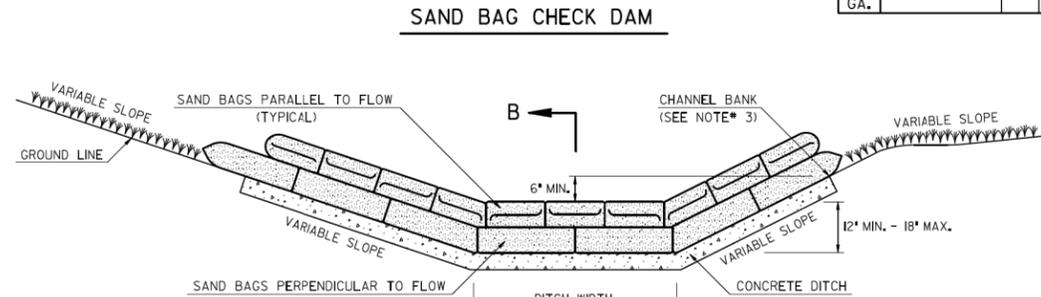
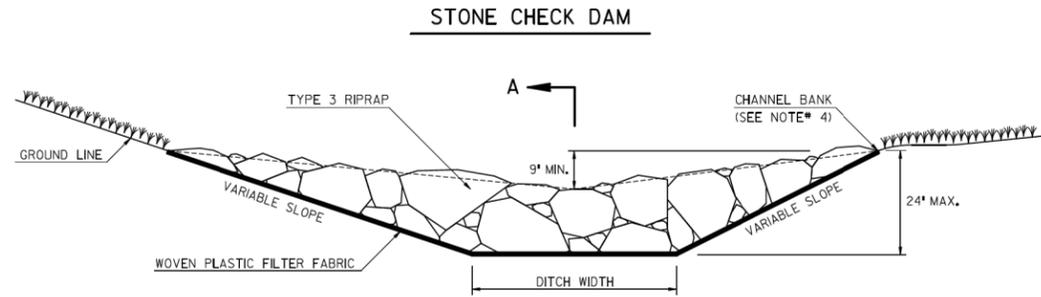
- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD I120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.  
THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
- IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.  
IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.  
IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

- Do = PIPE DIAMETER
- Q = DESIGN STORM FLOW RATE
- V = DESIGN STORM VELOCITY
- Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
- La = APRON LENGTH
- W1 = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
- W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
- d50 = AVERAGE STONE DIAMETER
- D = INSTALLATION DEPTH
- Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

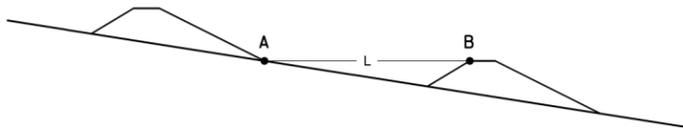
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS	
RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)	
NO SCALE	4-22-2016
DESIGNED <u>  </u> D.L.E.	NUMBER
DRAWN <u>  </u> D.L.E.	D-55B
TRACED <u>  </u>	
CHECKED <u>  </u>	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

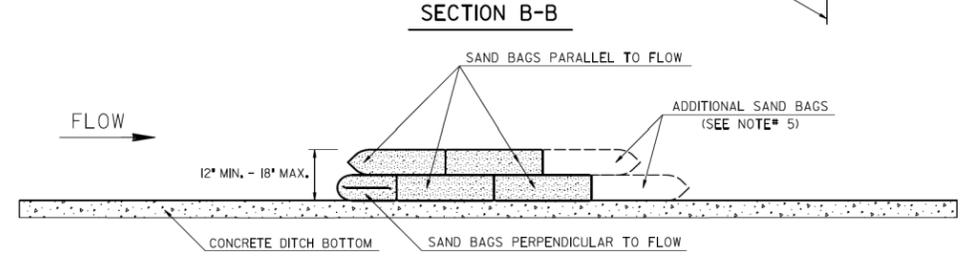
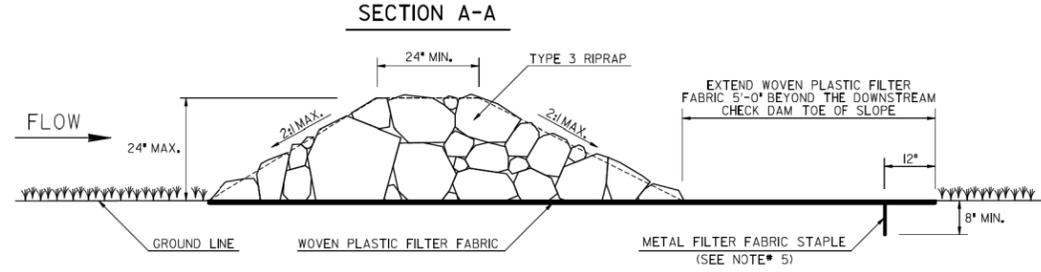
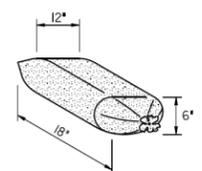


**TYPICAL CHECK DAM SPACING**

L = THE DISTANCE BETWEEN CHECK DAMS SUCH THAT POINTS \*A\* AND \*B\* ARE OF EQUAL ELEVATION



**SAND BAG DIMENSIONS**  
(SEE NOTE# 6)



**STONE CHECK DAM GENERAL NOTES:**

- STONE CHECK DAMS SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
- APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED DOWNSTREAM OF STONE CHECK DAMS AT THE DISCHARGE POINT FOR FLOWS GREATER THAN 2.0-CUBIC FEET PER SECOND.
- STONE CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
- THE CENTER OF THE STONE CHECK DAM SHALL BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE STONE CHECK DAM. THE HEIGHT AT THE CENTER OF THE STONE CHECK DAM MAY BE INCREASED TO A MAXIMUM OF 24-INCHES IF A MINIMUM OF 9-INCHES OF FREEBOARD IS STILL PROVIDED AT THE CHANNEL BANK.
- ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
- REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE STONE CHECK DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.
- PROVIDE PERMANENT CHANNEL PROTECTION AS SHOWN AND/OR NOTED IN THE PLANS AFTER STONE CHECK DAM IS REMOVED.

**SAND BAG CHECK DAM GENERAL NOTES:**

- SAND BAG CHECK DAMS ARE ONLY USED FOR TEMPORARY VELOCITY CONTROL IN CONCRETE LINED DITCHES AND SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
- APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED UPSTREAM AND/OR DOWNSTREAM OF CONCRETE DITCHES.
- THE CENTER OF THE SAND BAG CHECK DAM SHALL BE AT LEAST 6-INCHES LOWER THAN THE OUTER EDGES OF THE SAND BAG CHECK DAM AT THE GROUND LINE. THE HEIGHT AT THE CENTER OF THE SAND BAG CHECK DAM SHALL BE A MINIMUM OF 12-INCHES AND A MAXIMUM OF 18-INCHES.
- INSTALL SAND BAGS TIGHTLY ABUTTING EACH OTHER AND STACK IN A RUNNING BOND PATTERN. FOLD ANY FLAPS AWAY FROM WATER FLOW.
- IF ADDITIONAL SAND BAGS ARE WARRANTED FOR STABILITY, INSTALL AS SHOWN AND DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
- SAND BAG SIZES MAY VARY. ASSUME A FILLED SAND BAG HAS APPROXIMATE DIMENSIONS OF 12"Wx6"Hx18"L.
- REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SAND BAG CHECK DAM. SAND BAGS SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED AT NO ADDITIONAL COST TO THE DEPARTMENT.

**NOTE:**  
SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF STONE CHECK DAMS AND SAND BAG CHECK DAMS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF STONE CHECK DAMS AND SAND BAG CHECK DAMS.

**PAY ITEMS:**  
163-0527 CONSTRUCT AND REMOVE RIPRAP CHECK DAMS, STONE PLAIN RIPRAP/SAND BAGS (EA)  
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS STONE RIPRAP & SAND BAG TEMPORARY CHECK DAMS	
NO SCALE		11-28-2018	
BY	DESIGNED DLE DRAIN DLE TRACED CHECKED	NUMBER	D-56

REVISION DATES		CITY OF GRIFFIN - PUBLIC WORKS	
		<b>EROSION CONTROL CONSTRUCTION DETAILS</b>	
		HAMMOND DRIVE AT WEST POPLAR STREET INTERSECTION IMPROVEMENT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0009	
CORRECTED:	DATE:		
VERIFIED:	DATE:		