DEKALB COUNTY PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED
CS 796/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

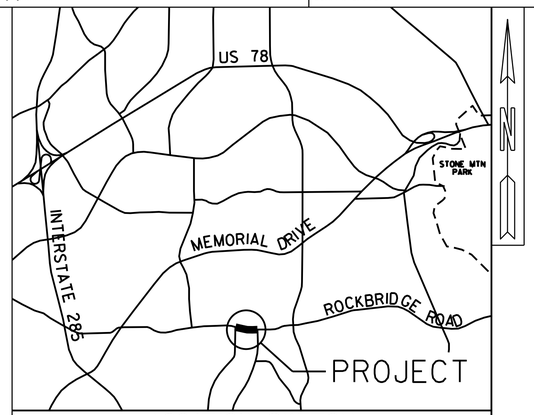
CSTEE-0008-00(121)

DEKALB COUNTY

FEDERAL ROUTE * N/A

STATE ROUTE * N/A

P.I. NO. 0008121/0012789



LOCATION SKETCH
N.T.S.

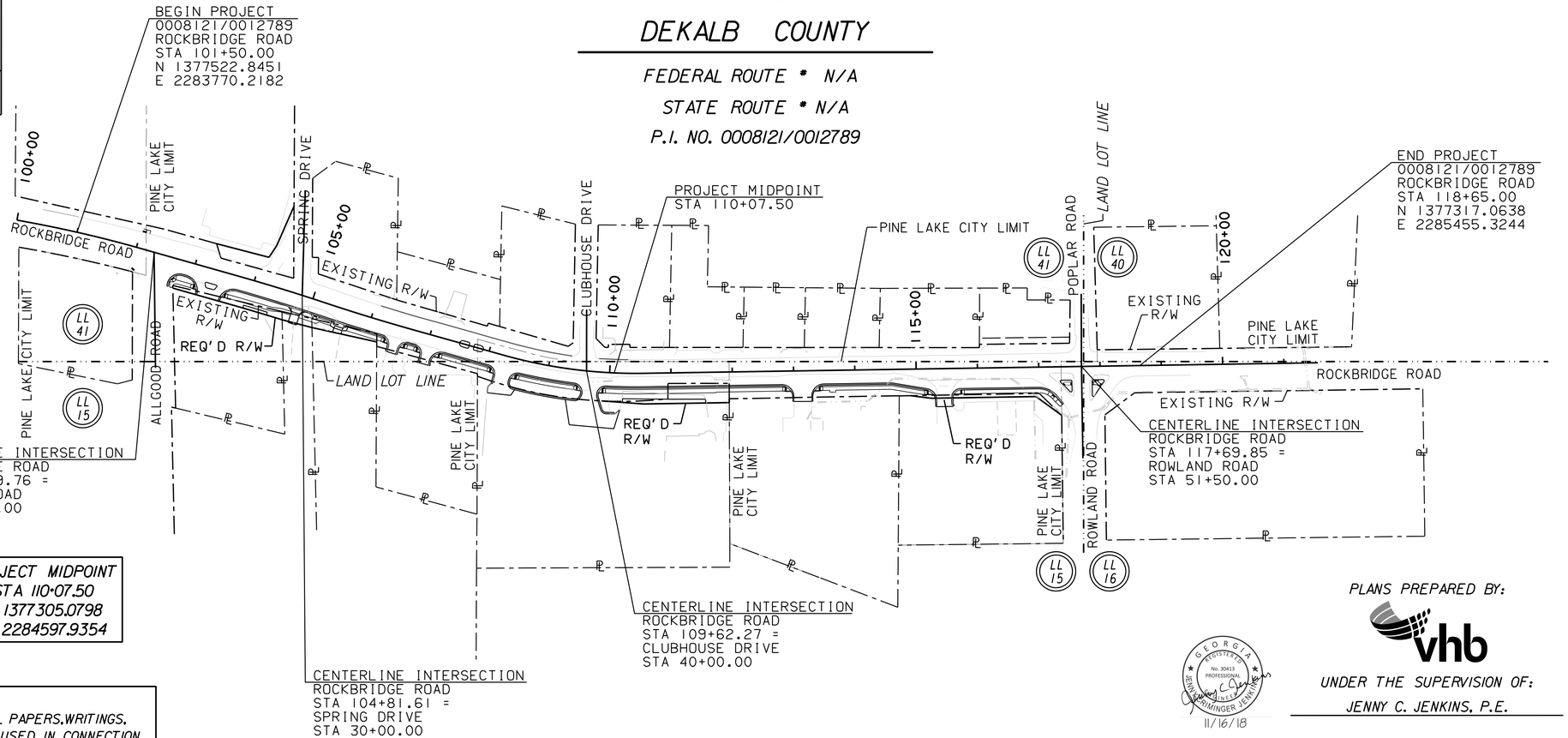
DESIGN DATA: ROCKBRIDGE ROAD
TRAFFIC A.D.T.: 18,920 (2018)
TRAFFIC A.D.T.: 23,000 (2038)
TRAFFIC D.H.V.: 750
DIRECTIONAL DIST: 66%
% TRUCKS: 8.6%
24 HR.TRUCKS %: 7.3%
SPEED DESIGN: 35 MPH

LOCATION & DESIGN
APPROVAL DATE: 3/29/16
FUNCTIONAL CLASS: URBAN MINOR ARTERIAL
PROJECT DESIGNATION: EXEMPT

THIS DOCUMENT HAS BEEN PREPARED USING THE GEORGIA COORDINATE SYSTEM OF 1985 WEST ZONE (NAD 83/94) AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

THIS PROJECT IS 100% IN DEKALB COUNTY AND IS 100% IN CONGRESSIONAL DISTRICT NO.4 .

PROJECT MIDPOINT
STA 110+07.50
N 1377305.0798
E 2284597.9354



PLANS PREPARED BY:

vhb

UNDER THE SUPERVISION OF:
JENNY C. JENKINS, P.E.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNY CHRISTINE JENKINS
11/16/18

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.

THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANY WAY 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.

LENGTH OF PROJECT P.I. NO. 0008121/0012789	DeKALB COUNTY No. 089 MILES
NET LENGTH OF ROADWAY	0.325
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.325
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.325

DEKALB · COUNTY · GEORGIA 1822

SCALE IN FEET
0 100 200 400

PLANS COMPLETED 11-16-18	
REVISIONS	

DRAWING No.
01-0001

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05-0001 - 05-0003	TYPICAL SECTIONS
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07-0001	QUANTITIES BY AMENDMENT
08-0001	QUANTITIES ON CONSTRUCTION
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40-0002	A-2 CONCRETE VALLEY GUTTER AT STREET INTERSECTION; 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE; PLACING PAVEMENT ADJACENT TO GUTTER; ADDITIONAL PAVING AT STREET INTERSECTION; 4' CORRUGATED CONCRETE MEDIAN — 07-11
40-0003	A-3 THIS DETAIL REPLACES GA STANDARD 9013W: SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS — 09-16
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40-0011	T-14 DETAILS OF PAVEMENT MARKING HATCHING — 11-08
40-0012	T-15A DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY — 09-16
40-0013	T-15C DETAILS OF RAISED PAVEMENT MARKERS — 09-11
40-0014	T-16 DETAILS OF BICYCLE LANE PAVEMENT MARKINGS — 03-16
40-0015	T-16A DETAILS OF SHARED BICYCLE LANE — 03-16
40-0016	TS-02 PULL BOX ASSEMBLY AND INSTALLATION — 04-10
40-0017	TS-03A PEDESTRIAN FACILITIES INSTALLATION DETAILS — 04-10
40-0018	TS-04 DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES — 04-10
40-0019	TS-05 DETAILS OF CONCRETE POLES — 04-10
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DRAWING NO.	DESCRIPTION
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41-0001	1011A BRICK MANHOLES — 10-81
41-0002	1011A PRECAST REINFORCED CONCRETE MANHOLE — 06-75
41-0003	1019A DROP INLETS — 08-99
41-0004	1019A PRECAST DROP INLETS — 08-99
41-0005	1030D CONCRETE AND METAL PIPE CULVERTS SHEET 1 OF 3 — 09-01
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41-0008	1033D CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER) — 08-82
41-0009	1033D PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" PRECAST HT. CURB AND GUTTER) — 09-82
41-0010	1034D CATCH BASINS (FOR USE WITH 6" OR 8" CURB AND GUTTER IN SAGS OR LOW POINTS) — 08-82
41-0011	1034D PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" CURB AND PRECAST GUTTER IN SAGS OR LOW POINTS) — 09-82
41-0012	9003 FEDERAL AID AND STATE PROJECT MARKERS; RIGHT OF WAY MARKERS; COUNTY LINE MARKER — 04-06
41-0013	9031L RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG — 09-16
41-0014	9031R PLACING ROOF DRAIN PIPE UNDER SIDEWALK - RAMP TYPE BARRICADE - PIPE HANDRAIL FOR RETAINING WALL PIPE HANDRAIL FOR CONCRETE STEPS — 10-88
41-0015	9031S MEDIAN DROP INLET (PRECAST OR BUILT IN PLACE) & CONCRETE APRON — 04-96
41-0016	9032B CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS — 11-11
41-0017	9100 TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS — 03-06
41-0018	9102 TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY — 03-06
	UTILITY RELOCATION PLANS
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	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN — DATE
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51-0001 - 51-0004	ESPCP GENERAL NOTES SHEET
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52-0002	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7) — 03-17
52-0003	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7) — 03-17
52-0004	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7) — 03-17
52-0005	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7) — 03-17
52-0006	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7) — 03-17
52-0007	EC-L7 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7) — 03-17
53-0001	ESPCP DRAINAGE AREA MAP
54-0001 - 54-0015	BMP LOCATION DETAILS
55-0001	WATERSHED MAP AND COMPREHENSIVE MONITORING PLAN
	GEORGIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION DETAILS FOR EROSION CONTROL — DATE
56-0001	D-24A TEMPORARY SILT FENCE (SHEET 1 OF 4) — 01-11
56-0002	D-24C TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4) — 01-11
56-0003	D-41 CONSTRUCTION EXIT — 04-16
56-0004	D-42 INLET SEDIMENT TRAPS — 05-08
56-0005	D-52 BALED STRAW & COMPOST FILTER SOCK CHECK DAMS FOR EROSION CONTROL — 04-16
56-0006	D-54 SOD INSTALLATION — 04-16

8/28/2015 CONBOR

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REVISION DATES

INDEX

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		02-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

4/5/2018 3:07:41 PM USER:pwansley	GPLOT-V8 SCREEN.tbl	\\vhb\proj\Buford\63023.00 DeKalb_Rockbridge\cad\te\DGN\0008121_03-0001.dgn		P.I. No. 0008121/0012789

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

8/28/2015 CONBOR

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REVISION DATES		

REVISION SUMMARY

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		03-0001
VERIFIED:		DATE:		

GENERAL NOTES

1. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED.

   DRIVES SHALL BE CONSTRUCTED USING:

   ASPHALT DRIVEWAYS COMMERCIAL: 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H. LIME
   220 LB/SY RECYCLED ASPHALTIC CONCRETE 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H. LIME
   6" GRADED AGGREGATE BASE

   ALL DRIVEWAY ACCESS SHALL BE MAINTAINTED DURING CONSTRUCTION.

2. ALL EXISTING DRAINAGE PIPES AND STRUCTURES WITHIN THE PROPOSED CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS. ALL COSTS ASSOCIATED WITH THE REMOVAL OF ANY PIPES AND STRUCTURES SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

3. THE COST FOR REMOVAL AND DISPOSAL OF EXISTING SHOULDER MATERIAL, PIPE, AND MINOR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE.

4. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS FROM EXISTING DRAINAGE STRUTURES, PIPES, AND CULVERTS THAT ARE RETAINED BEFORE ANY WORK BEGINS AND AT THE COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE INCLUDED IN BID PRICE FOR GRADING COMPLETE.

5. AN NOI WILL BE REQUIRED FOR THIS PROJECT. DISTURBED AREA IS 1.17 ACRES.

6. THE CONTRACTOR SHALL PROTECT ALL POST-MOUNTED STREET NAME SIGNS WITHIN THE PROJECT LIMITS. IF A STREET NAME SIGN MUST BE MOVED DURING THE COURSE OF CONSTRUCTION, IT MUST BE RESET AT THE END OF EACH WORKDAY. ALL LABOR AND MATERIALS REQUIRED TO SATISFY THIS REQUIREMENT SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.

7. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

8. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA. SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

9. ALL WHEEL CHAIR RAMPS AND SIDEWALK WITHIN THE INTERSECTION RADII ARE TO BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.

10. CONTRACTOR SHALL PRESSURE WASH EXISTING SIDEWALKS ALONG THE NORTH SIDE OF ROCKBRIDGE ROAD WITHIN PROJECT LIMITS. COST SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.

11. ANY REFERENCE TO THE "DEPARTMENT" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE DEKALB COUNTY DEPARTMENT OF ENGINEERING, AND REFERENCES TO THE "DEPARTMENT'S SPECIFICATIONS" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMTENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS CURRENT EDITION.

12. METHOD OF UTILITY LOCATION:
    QL-C = EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

    QL-B = INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

13. PRIOR TO BEGINNING PAVEMENT CONSTRUCTION, CONTRACTOR SHALL PROVIDE A STAGING PLAN TO DEKALB COUNTY FOR REVIEW AND APPROVAL. THE STAGING PLAN MUST ADDRESS HOW CONSTRUCTION WILL BE STAGED IN THE AREA OF FULL DEPTH REPLACEMENT FROM STATION 106+10 TO STATION 110+30; IT MUST ENSURE THAT AT LEAST ONE LANE OF TRAFFIC ON ROCKBRIDGE ROAD WILL REMAIN OPEN AT ALL TIMES; IT MUST ADDRESS HOW ACCESS TO DRIVEWAYS WILL BE MAINTAINED; IT MUST ADDRESS HOW ACCESS TO CLUBHOUSE DRIVE WILL BE MAINTAINED. IF THE CONTRACTOR PROPOSES TO CLOSE CLUBHOUSE DRIVE, CONTRACTOR MUST SHOW A DETOUR PLAN IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', CURRENT EDITION. IF DEKALB COUNTY APPROVES OF THE DETOUR PLAN, IT MUST STILL BE REVIEWED AND APPROVED BY THE CITY OF PINE LAKE PRIOR TO BEGINNING PAVEMENT CONSTRUCTION.

14. THERE WILL BE NO IMPACT TO MARTA FACILITIES AS A RESULT OF THIS PROJECT. IF COORDINATION WITH MARTA IS NECESSARY, DEKALB COUNTY WILL HANDLE THE COORDINATION.

15. CONTRACTOR SHALL SALVAGE EXSTING RUBBLE WALL BETWEEN STATIONS 111+00 AND 112+00 AND DELIVER TO THE CITY OF PINE LAKE. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF THE RUBBLE OFFSITE IF THE CITY DOES NOT ACCEPT IT.

16. THE FOLLOWING UTILITY OWNERS MAY HAVE FACILITIES THAT CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

NAME OF UTILITY OWNER	UTILITY
SOUTHERN COMPANY GAS	GAS
AT&T	PHONE
AT&T FIBER	FIBER OPTICS
DEKALB TRANSPORTATION	SIGNALS
DEKALB COUNTY WATERSHED MANAGEMENT	WATER & SEWER
GEORGIA POWER COMPANY	ELECTRIC
GEORGIA POWER TRANSMISSION	ELECTRIC
ZAYO GROUP	FIBER

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

8/28/2015 CONBOR

REVISION DATES

GENERAL NOTES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		04-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SIGNING AND MARKING GENERAL NOTES

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD LOCATIONS 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 DEKALB COUNTY PUBLIC WORKS TRANSPORTATION DIVISION.

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 ASSEMBLY.

4A. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARDRAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARDRAIL TO THE NEARER EDGE OF THE SIGN(S).

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 FORM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X ½ 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 ⅝ 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 ½ 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 ½ 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 ⅜ INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

15. CONTRACTOR SHALL, AS REQUESTED BY THE PROJECT ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THE INCLUDED SIGN PLANS.

16. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GA DOT STANDARD SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.

17. ALL WORK WITHIN DEKALB COUNTY RIGHT OF WAY SHALL CONFORM TO GA DOT STANDARDS AND SPECIFICATIONS FOR ROADS AND BRIDGES.

18. ALL SIDEWALKS AND HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS AND GA DOT STANDARDS AND SPECIFICATIONS AND SHALL MEET ADA REQUIREMENTS.

19. ALL PAVEMENT MARKINGS, STRIPES, ARROWS, WORDS, ETC. SHALL BE HOT APPLIED THERMO-PLASTIC UNLESS INDICATED OTHERWISE.

20. ALL SIGNING, MARKING, AND TRAFFIC CONTROL SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

21. ALL EXISTING STOP BARS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE RESTRIPED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.

TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POWER AND COMMUNICATION SERVICES TO TRAFFIC SIGNAL INSTALLATIONS AS NOTED ON PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH POWER AND COMMUNICATIONS UNTIL THE TRAFFIC SIGNAL COMPLETES A SUCCESSFUL BURN IN TEST PERIOD. AT COMPLETION OF A SUCCESSFUL TEST PERIOD, POWER AND COMMUNICATIONS COSTS SHALL BE TRANSFERRED TO DEKALB COUNTY.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD ADJUSTMENT OF TRAFFIC SIGNAL INDICATIONS, POLES AND DETECTION AS REQUIRED DUE TO ROADWAY LANE SHIFTS. UPON MODIFICATION OR ADJUSTMENT OF ANY SIGNAL INDICATIONS, POLES, OR CABLING AT EXISTING TRAFFIC SIGNALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING TO REPORTS OF SIGNAL MALFUNCTION OR "TROUBLE". AT NO TIME WILL THE CONTRACTOR ALLOW ANY EXISTING TRAFFIC SIGNAL INDICATIONS OR CONTROL EQUIPMENT TO BECOME INOPERABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING TO REPORTS OF TRAFFIC SIGNAL "TROUBLE" OR MALFUNCTION UPON ACTIVATION OF NEW SIGNAL EQUIPMENT.

4. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET. ALL LOOP LEAD-INS WILL BE ON SEPARATE CABLES FOR ALL LOOP DETECTORS.

5. SEPARATE SHIELDED CABLE SHALL BE RUN FOR PEDESTRIAN PUSHBUTTON INDICATIONS BETWEEN THE CONTROL CABINET AND THE PEDESTRIAN INDICATIONS, AND MULTIPLE DETECTION LOOPS ON THE SAME INTERSECTION APPROACH.

6. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.

7. THE PROJECT ENGINEER SHALL CONTACT THE DISTRICT SIGNAL ENGINEER AND/OR DEKALB COUNTY TRAFFIC ENGINEERING TO IDENTIFY SALVAGEABLE MATERIALS THAT MAY BE REMOVED FROM EXISTING SIGNALIZED INTERSECTIONS. TRAFFIC SIGNAL MATERIAL SHALL BE INSPECTED BY THE DISTRICT SEVEN SIGNAL ENGINEER FOR SALVAGEABLE MATERIALS. THOSE MATERIALS DEEMED NOT SALVAGEABLE SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE CONTRACT.

8. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.

9. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE. THE EXISTING SIGNAL LOOPS SHALL BE MAINTAINED UNTIL THE NEW LOOPS ARE OPERATIONAL.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

11. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIFICATIONS.

12. BOTH THE FACE AND BACK OF ALL TRAFFIC SIGNAL HEAD AND PEDESTRIAN SIGNAL HEAD HOUSINGS SHALL BE BLACK. ALL SIGNALS SHALL HAVE BACKPLATES.

13. PEDESTRIAN SIGNALS SHALL NOT BE MADE OPERATIONAL UNTIL CORRESPONDING CROSSWALKS ARE COMPLETED.

14. ALL NEW POLES SHALL BE PAINTED BLACK.

8/28/2015 CONBOR

REVISION DATES

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

GENERAL NOTES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

DRAWING No. 04-0002

pH 6.0
Resistivity 10000

Project Number: CSTEE-0008-00(121) County: DEKALB P. I. Number: 0008121 0012789

Pipe Culvert Material Alternates

TYPE OF INSTALLATION				PIPE TYPE: CONCRETE	STEEL			ALUMINUM	THERMOPLASTIC				
				REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTH LINED HDPE TYPE "S" AASHTO M-294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M-330	PVC CORRUGATED SMOOTH INTERIOR AASHTO F-949	PVC Profile Wall Drain Pipe AASHTO M-304
STORM DRAIN	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE		X									
		NON INTERSTATE		X	X		X	X		X	X	X	X
	TRAVEL BEARING (INSIDE ROADBED)	GRADE 10%	ADT < 1,500	X	X		X	X		X	X	X	X
			1,500 < ADT < 5,000	X	X		X	X		X	X	X	X
			5,000 < ADT < 15,000	X						X	X	X	X
			ADT > 15,000 & INTERSTATES	X									
		GRADE > 10%					X			X	X	X	X
SIDE DRAIN				X	X		X	X		X	X	X	X
PERMANENT SLOPE DRAIN					X	X	X	X		X	X	X	X
PERFORATED UNDERDRAIN					X	X		X	X	X	X	X	X

NOTE:

1. Allowable materials are indicated by an "X".
2. Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications.
3. The Contractor shall provise additional storm sewer capacity calculations if a pipe material other than concrete is selected.
4. Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.

Rev. 1-12-16

ENVIRONMENTAL RESOURCES IMPACT TABLE

These resources and the restrictions listed are governed by state and federal law.

Resource Name (from Section A of the ECT)	Location: Beginning STA	Location: Ending STA	Location: Side	Permitted Construction Activity (from Section A of the ECT)	Special Provision? (from Section B of the ECT)	Comments (from Section C of the ECT, comments only)
NONE						

404 Permits and Variances (from Section D of the ECT)	**Expiration dates** (if applicable) Contact GDOT OES 6 months prior to expiration, if work will extend beyond this date.
Notice of Intent (NOI) for NPDES	DeKalb County and the Construction Contractor will submit an NOI to the NPDES General Permit following award of the contract but prior to construction.

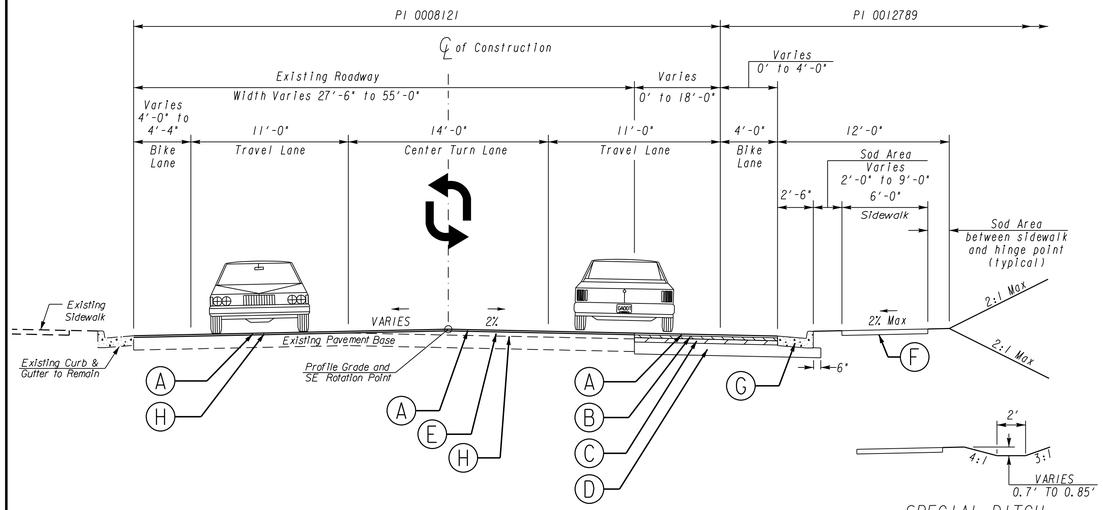
REVISION DATES

GENERAL NOTES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

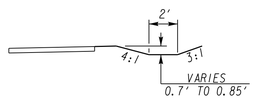
		DATE:		DRAWING No.
CHECKED:				
BACKCHECKED:		DATE:		04-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR



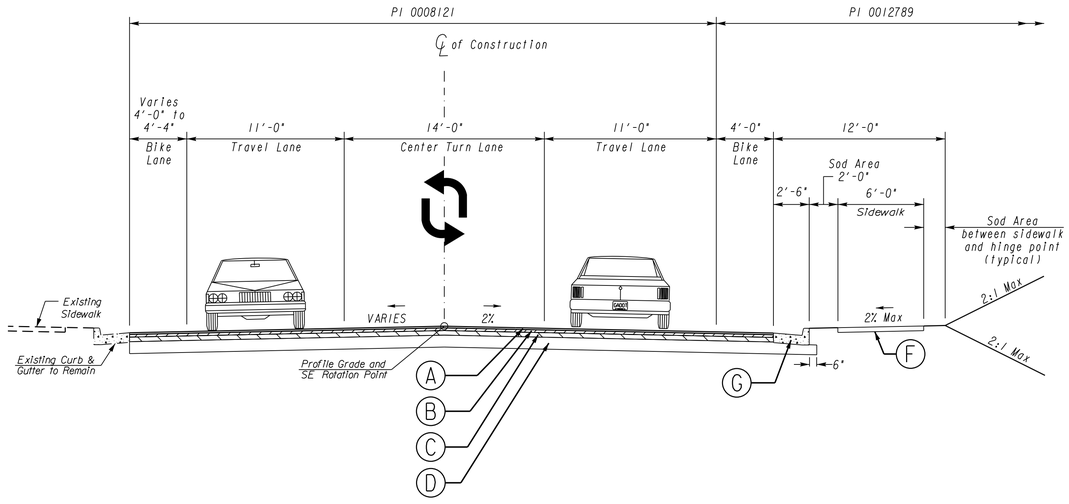
TYPICAL SECTION NO. 1

ROCKBRIDGE ROAD
STA 101+50.00 TO STA 106+10.00
STA 111+73.00 TO STA 115+75.00
STA 117+13.12 TO STA 118+15.27



SPECIAL DITCH

ROCKBRIDGE ROAD
STA 104+90.00 TO STA 105+40.00

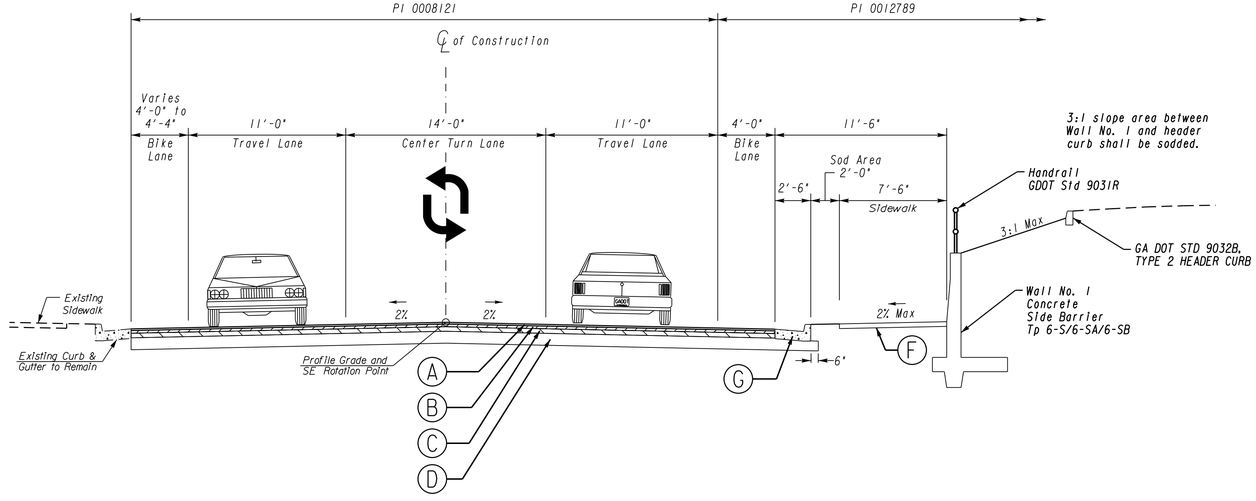


TYPICAL SECTION NO. 2

ROCKBRIDGE ROAD
STA 106+10.00 TO STA 110+00.00

PAVEMENT DESIGN

- (A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GP2 ONLY, INCL BITUM MATL & H. LIME
- (B) 220 LB/SY ASPHALTIC CONCRETE 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H. LIME
- (C) 660 LB/SY ASPHALTIC CONCRETE 25MM SUPERPAVE
- (D) 12" GRADED AGGREGATE BASE
- (E) LEVELING AS REQUIRED
- (F) 4" THICK CONCRETE SIDEWALK
- (G) GA DOT STD 9032B, TYPE 2 CONCRETE CURB & GUTTER, 8" X 30"
- (H) VARIABLE DEPTH MILLING



TYPICAL SECTION NO. 3

ROCKBRIDGE ROAD
STA 110+00.00 TO STA 110+30.00

8/28/2015 CONBOR

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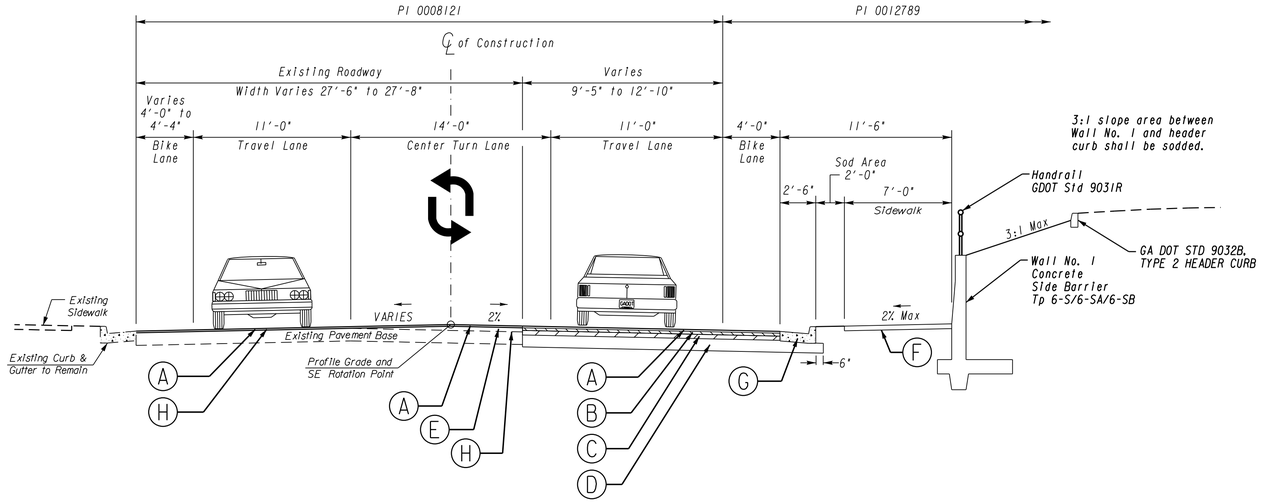
NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS

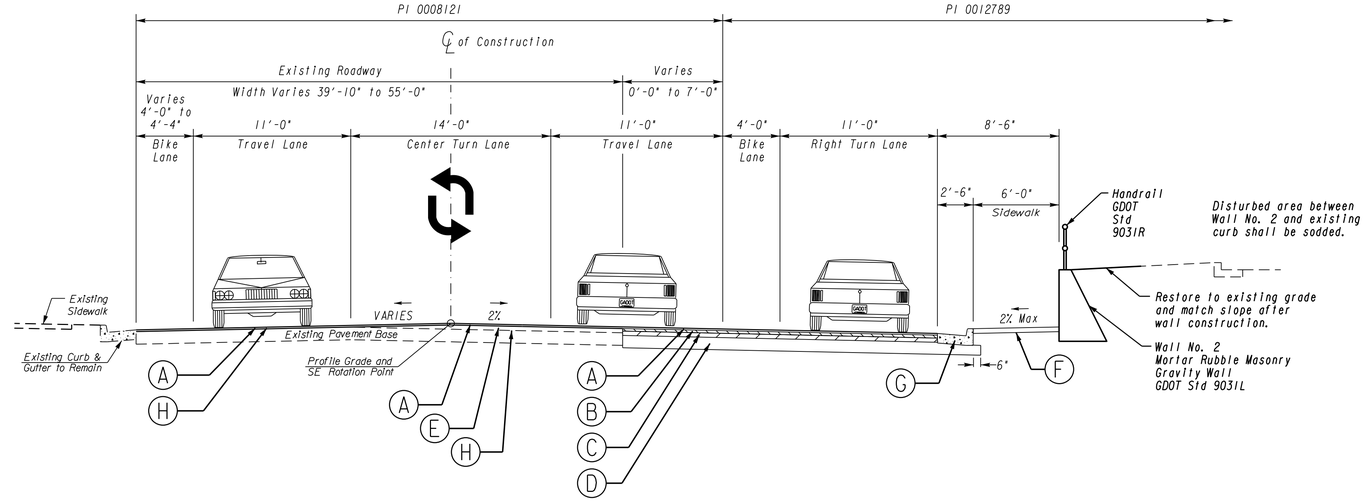
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



TYPICAL SECTION NO. 4

ROCKBRIDGE ROAD
STA 110+30.00 TO STA 111+73.00



TYPICAL SECTION NO. 5

ROCKBRIDGE ROAD
STA 115+75.00 TO STA 117+13.12

PAVEMENT DESIGN

- (A) 165 LB/SY RECYCLED ASPHALTIC CONCRETE 12.5MM SUPERPAVE, GP2 ONLY, INCL BITUM MATL & H. LIME
- (B) 220 LB/SY ASPHALTIC CONCRETE 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H. LIME
- (C) 660 LB/SY ASPHALTIC CONCRETE 25MM SUPERPAVE
- (D) 12" GRADED AGGREGATE BASE
- (E) LEVELING AS REQUIRED
- (F) 4" THICK CONCRETE SIDEWALK
- (G) GA DOT STD 9032B, TYPE 2 CONCRETE CURB & GUTTER, 8" X 30"
- (H) VARIABLE DEPTH MILLING

8/28/2015 CONBOR

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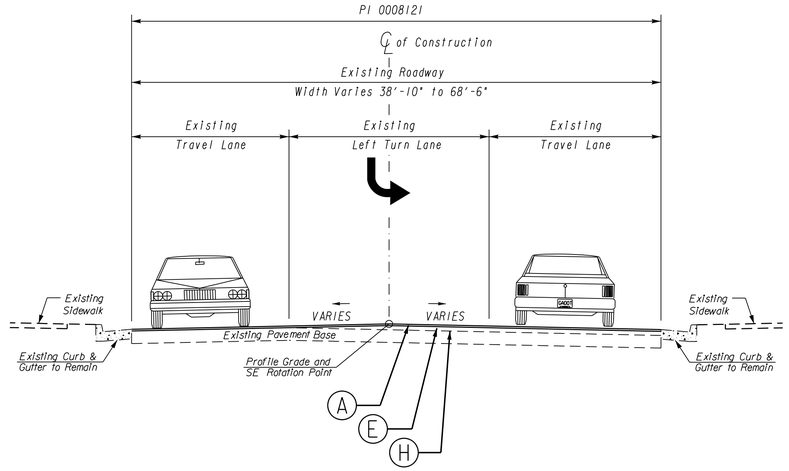
REVISION DATES

TYPICAL SECTIONS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

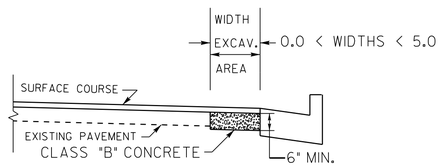
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		05-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



TYPICAL SECTION NO. 6

ROCKBRIDGE ROAD
STA 118+15.27 TO 118+60.00

CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING DETAIL



NO SCALE

CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

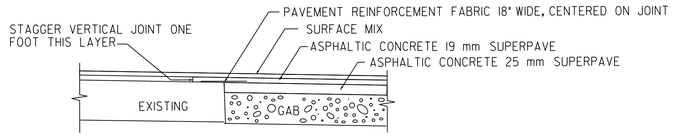
IN EXCAVATED AREAS BETWEEN THE EXISTING PAVING AND NEW CURB AND GUTTER THAT ARE 5'-0" OR LESS IN WIDTH, CLASS "B" CONCRETE SHALL BE PLACED IN LIEU OF THE ASPHALT SPECIFIED BY THE TYPICAL SECTION. PAYMENT WILL BE MADE UNDER "CLASS B CONCRETE BASE AND PAVEMENT WIDENING".

IN EXCAVATED AREAS GREATER THAN 5'-0" IN WIDTH, THE CONTRACTOR SHALL PLACE BASE AND PAVING AS SPECIFIED ON THE TYPICAL SECTION.

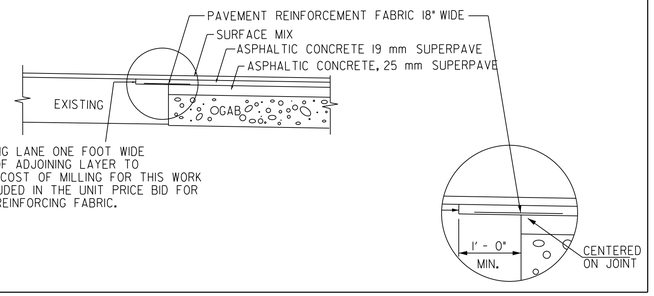
SEE PLANS FOR DETAILS OF CURB AND GUTTER CONSTRUCTION.

PAVEMENT REINFORCING FABRIC DETAIL

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



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NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		05-0003
VERIFIED:		DATE:		

8/28/2015 CONBOR

SUMMARY OF QUANTITIES

TRAFFIC CONTROL - PROJECT 0008121
LUMP SUM

GRADING COMPLETE - PROJECT 0008121
LUMP SUM
INCLUDES CLEARING & GRUBBING AND IN PLACE EMBANKMENT

GRADING COMPLETE - PROJECT 0012789
LUMP SUM
INCLUDES CLEARING & GRUBBING AND IN PLACE EMBANKMENT

ROADWAY PAVING - PI NO 0008121

LOCATION	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME TN	GR AGGR BASE CRS, INCL MATL TN	TACK COAT GL	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME TN	MILL ASPH CONC PVMT, VARIABLE DEPTH SY	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH LF	CLASS B CONC, BASE OR PVMT WIDENING CY
STA 101+50.00 TO STA 106+00.00	235	3	9	18	145	20	2812	57	1
STA 106+00.00 TO STA 110+50.00	172	209	627	1317	295		185	21	
STA 110+50.00 TO STA 114+50.00	146	56	168	351	139	99	1257	402	
STA 114+50.00 TO STA 118+65.00	210	39	116	244	162	80	2186	219	
PROJECT TOTAL	763	307	920	1930	741	199	6440	699	1

ROADWAY PAVING - PI NO 0012789

LOCATION	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME TN	GR AGGR BASE CRS, INCL MATL TN	TACK COAT GL	MILL ASPH CONC PVMT, VARIABLE DEPTH SY	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH LF	CLASS B CONC, BASE OR PVMT WIDENING CY
STA 101+50.00 TO STA 106+00.00	13	3	9	105	11	101	67	6
STA 106+00.00 TO STA 110+50.00	17	22	66	309	30	3	11	1
STA 110+50.00 TO STA 114+50.00	15	20	59	229	27			
STA 114+50.00 TO STA 118+65.00	31	41	122	337	56		63	1
PROJECT TOTAL	76	86	256	980	124	104	141	8

CURB & GUTTER, MEDIAN AND SIDEWALK - PI NO 0008121

LOCATION	CONCRETE MEDIAN, 6 IN SY
STA 101+50.00 TO STA 106+00.00	
STA 106+00.00 TO STA 110+50.00	33
STA 110+50.00 TO STA 114+50.00	
STA 114+50.00 TO STA 118+65.00	61
PROJECT TOTAL	94

CURB & GUTTER, MEDIAN AND SIDEWALK - PI NO 0012789

LOCATION	CONC SIDEWALK, 4 IN SY	CONC SIDEWALK, 8 IN SY	CONCRETE MEDIAN, 6 IN SY	CONCRETE HEADER CURB, 6 IN, TP 2 LF	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 LF	PRECAST BUMPER BLOCK EA
STA 101+50.00 TO STA 106+00.00	154	20		51	336	
STA 106+00.00 TO STA 110+50.00	182	61		35	658	
STA 110+50.00 TO STA 114+50.00	241	17		112	404	
STA 114+50.00 TO STA 118+65.00	142	32			313	
STA 103+23.65, 26' RT TO STA 103+43.74, 26' RT			17			
STA 111+78, 67' RT						2
PROJECT TOTAL	719	130	17	198	1711	2

DRIVEWAYS - PI NO 0012789

LOCATION	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME TN	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME TN	GR AGGR BASE CRS, INCL MATL TN	TACK COAT GL	CONC VALLEY GUTTER, 8 IN SY	AGGR SURF CRS TN
DW01 STA 103+33.73 RT	3	4	51	2	101	10
DW02 STA 104+80.00 RT	2	3	18	1	24	10
DW03 STA 105+54.00 RT	1	2	15	1	30	10
DW04 STA 106+48.46 RT	2	3	21	2	29	10
DW05 STA 107+02.66 RT	3	4	25	2	32	10
DW06 STA 108+30.76 RT	9	12	64	6	39	10
DW07 STA 109+70.00 RT	30	40	182	19	40	10
DW08 STA 113+15.00 RT	5	7	45	3	52	10
DW09 STA 115+45.36 RT	5	7	39	3	35	10
PROJECT TOTAL	60	82	460	39	382	90

RIGHT OF WAY MARKERS - PI NO 0008121

	EA
PROJECT TOTAL	3

RIGHT OF WAY MARKERS - PI NO 0012789

	EA
PROJECT TOTAL	11

REVISION DATES

SUMMARY QUANTITIES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	06-0001
VERIFIED:		DATE:	

8/28/2015 CONBDR

SUMMARY OF QUANTITIES

DRAINAGE - PI NO 0012789

STR NO.	LOCATION	STORM DRAIN PIPE 18 INCH H=1-10 LF	STORM DRAIN PIPE 24 INCH H=1-10 LF	CATCH BASINS STD 1033 & 1034 GROUP 1 H=6' OR LESS EA	CATCH BASINS STD 1033 & 1034 GROUP 1 ADD'L. DEPTH LF	DROP INLET STD 1019-A GROUP 1 H=6' OR LESS EA	DROP INLET STD 1019-A GROUP 1 ADD'L. DEPTH LF	DROP INLET STD 9031-S GROUP 1 H=6' OR LESS EA	DROP INLET STD 9031-S GROUP 1 ADD'L. DEPTH LF	MANHOLES STD 1011-A TYPE 1 H=6' OR LESS EA	MANHOLES STD 1011-A TYPE 1 CL. 1 ADD'L. DEPTH LF	REMARKS
A13	103+53.04, 44.88' RT	77.9				1						
A12	104+32.98, 44.88' RT	104.4				1						
A11	105+40.00, 38.00' RT	77.3				1						
A10	106+18.12, 26.17' RT	169.4		1								GDOT STD 1033D
A9	107+90.00, 26.17' RT	96.2		1								GDOT STD 1033D
A8.2	108+87.00, 26.17' RT	29.6		1								GDOT STD 1033D
A8.1	109+12.00, 26.67' RT	17.6		1								GDOT STD 1034D
A8	108+63.00, 26.17' RT	33.7		1								GDOT STD 1033D
A7	109+00.00, 37.00' RT	30.1								1		
A6.2	110+24.08, 43.28' RT	31.9				1	2.0					
A6.1	109+92.00, 40.00' RT	15.8						1				
A6	110+00.00, 23.00' RT	189.1				1						WITH HOOD AND INCL. BICYCLE SAFE GRATE
A5.2	111+53.81, 45.42' RT	34.7				1	4.0					
A5.1	111+90.00, 40.00' RT	11.2						1				
A5	111+90.00, 26.17' RT	77.1		1								GDOT STD 1033D
A4	112+70.00, 26.17' RT	177.4		1								GDOT STD 1033D
A3	114+50.00, 26.17' RT		19.8	1								GDOT STD 1033D
A2	114+70.00, 38.17' RT		208.9							1		
A1	116+83.50, 38.17' RT			1								GDOT STD 1033D
PROJECT TOTAL		1174	229	9		6	6	2		2		

TEMPORARY EROSION CONTROL - PI NO 0012789

	CONSTRUCTION EXIT EA	CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM LF	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP EA	TEMPORARY SILT FENCE, TYPE C LF
PROJECT TOTAL	2	20	19	309

MAINTENANCE OF TEMPORARY EROSION CONTROL - PI NO 0012789

	MAINTENANCE OF TEMPORARY SILT FENCE, TP C LF	MAINTENANCE OF SEDIMENT BARRIER - BALED STRAW LF	MAINTENANCE OF CONSTRUCTION EXIT EA	MAINTENANCE OF INLET SEDIMENT TRAP EA
PROJECT TOTAL	155	20	2	19

CONSTRUCTION WATER QUALITY - PI NO 0012789

	WATER QUALITY MONITORING AND SAMPLING EA	WATER QUALITY INSPECTIONS MO
PROJECT TOTAL	1	24

GRASSING FOR TEMPORARY EROSION CONTROL - PI NO 0012789

	TEMPORARY GRASSING AC	MULCH TN
PROJECT TOTAL	4	45

GRASSING FOR PERMANENT EROSION CONTROL - PI NO 0012789

	PERMANENT GRASSING AC	AGRICULTURAL LIME TN	FERTILIZER MIXED GRADE TN	FERTILIZER NITROGEN CONTENT LB	SOD SY
PROJECT TOTAL	2	13	2	115	1450

8/28/2015 CONBDR

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REVISION DATES

SUMMARY QUANTITIES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No. 06-0002

SUMMARY OF QUANTITIES

SIGNING - PI NO 0008121

LOCATION	INSTL. NO.	MUTCD SIGN CODE	HIGHWAY SIGNS								POSTS								
			REM SIGN	RESET SIGN	TYPE 9 SHEETING TYPE 1 MATERIAL			TYPE 11 SHEETING TYPE 1 MATERIAL			TYPE 7			TYPE 8			TYPE 9		
			EA	EA	SIZE	QTY	SF	SIZE	QTY	SF	LENGTH LF	QTY	TOTAL LF	LENGTH LF	QTY	TOTAL LF	LENGTH LF	QTY	TOTAL LF
ROCKBRIDGE ROAD																			
101+95 LT		W11-1			30X30	1	6.25										15.75	1	15.75
		W16-1			18X24	1	3.00												
102+40 LT		R3-17			24X18	1	3.00				12.50	1	12.50						
		R3-17BP			24X8	1	1.33												
103+00 LT			1	1															
103+90 LT		R3-17			24X18	1	3.00				13.00	1	13.00						
		R3-17BP			24X8	1	1.33												
		R3-17AP			24X8	1	1.33												
104+03 LT		R1-2						36X36X36	1	3.90	12.75	1	12.75						
104+47 LT		R9-3			18X18	1	2.25				12.50	1	12.50						
		R9-3BR			18X12	1	1.50												
104+95 LT		D3-1			30X12	1	3.50							15.00	1	15.00			
		D3-1			42X12	1	5.00												
		R5-2			24X24	1	4.00												
		R12-3SP			24X36	1	6.00												
107+55 CL		R4-7			24X30	1	5.00				12.50	1	12.50						
107+85 CL		R4-7			24X30	1	5.00				12.50	1	12.50						
109+19 LT		R3-17			24X18	1	3.00				11.50	1	11.50						
109+42 LT		D3-1			42X12	1	5.00							12.00	1	12.00			
		D3-1			42X12	1	5.00												
117+45 LT		R3-17			24X18	1	3.00				11.50	1	11.50						
117+48 LT		R9-3			18X18	1	2.25				12.50	1	12.50						
		R9-3BR			18X12	1	1.50												
117+52 LT		D3-1			30X12	1	3.50				10.00	1	10.00						
		D3-1			42X12	1	5.00												
118+50 LT		R3-17			24X18	1	3.00				12.50	1	12.50						
		R3-17AP			24X8	1	1.33												
SPRING DRIVE																			
30+77 LT		R5GO-5			18X24	1	3.00				12.00	1	12.00						
30+58.47 LT		R1-2	1																
31+45 LT		W11-1			30X30	1	6.25				13.75	1	13.75						
POPLAR ROAD																			
61+15 LT		W11-1			30X30	1	6.25				13.75	1	13.75						
PROJECT TOTAL			2	1			100			4			174			27			16

8/28/2015 CONBDR

DEKALB · COUNTY · GEORGIA 1822

vhb

REVISION DATES

SUMMARY QUANTITIES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No. 06-0003

SUMMARY OF QUANTITIES

SIGNING - PI NO 0012789

LOCATION	INSTL. NO.	MUTCD SIGN CODE	HIGHWAY SIGNS								POSTS								
			REM SIGN	RESET SIGN	TYPE 9 SHEETING TYPE 1 MATERIAL			TYPE 11 SHEETING TYPE 1 MATERIAL			TYPE 7			TYPE 8			TYPE 9		
											LENGTH	QTY	TOTAL	LENGTH	QTY	TOTAL	LENGTH	QTY	TOTAL
			EA	EA	SIZE	QTY	SF	SIZE	QTY	SF	LF		LF	LF		LF	LF		LF
ROCKBRIDGE ROAD																			
101+86 RT		R3-17			24X18	1	3.00				12.50	1	12.50						
		R3-17AP			24X8	1	1.33												
102+78 RT		D3-1			36X12	1	4.00				10.00	1	10.00						
		D3-1			42X12	1	5.00												
102+85 RT		R3-17			24X18	1	3.00				11.50	1	11.50						
103+59 RT		R560-5			18X24	1	3.00				12.00	1	12.00						
103+70 RT		R1-2						36X36X36	1	3.90	12.75	1	12.75						
104+48 RT		R9-3			18X18	1	2.25				12.50	1	12.50						
		R9-3BL			18X12	1	1.50												
105+26 RT		R3-17			24X18	1	3.00				11.50	1	11.50						
106+62 RT		R6-2R			24X30	1	5.00				12.50	1	12.50						
		R6-2L			24X30	1	5.00												
106+89 RT		R6-2L			24X30	1	5.00				12.50	1	12.50						
		R6-2R			24X30	1	5.00												
107+18 RT		R1-1						30X30	1	6.25	13.50	1	13.50						
107+19 RT		R5-1						30X30	1	6.25	13.50	1	13.50						
109+35 RT			1	1															
110+27 RT`		R3-17			24X18	1	3.00				11.50	1	11.50						
113+64 RT		R3-17			24X18	1	3.00				11.50	1	11.50						
114+60 RT		R4-4			36X30	1	7.50				12.50	1	12.50						
115+75 RT		R3-17			24X18	1	3.00				13.00	1	13.00						
		R3-17BP			24X8	1	1.33												
		R3-17AP			24X8	1	1.33												
117+10 RT		R560-5			18X24	1	3.00				12.00	1	12.00						
117+30 RT		R1-2						36X36X36	1	3.90	13.00	1	13.00						
117+47 RT		R9-3			18X18	1	2.25				12.50	1	12.50						
		R9-3BL			18X12	1	1.50												
117+52 RT		R12-3SP			24X36	1	6.00							15.00	1	15.00			
		R5-2			24X24	1	4.00												
117+88 RT		D3-1			36X12	1	4.00				10.00	1	10.00						
		D3-1			42X12	1	5.00												
118+05 RT		R3-17			24X18	1	3.00				12.50	1	12.50						
		R3-17BP			24X8	1	1.33												
118+65 RT		W11-1			30X30	1	6.25										15.75	1	15.75
		W16-1			18X24	1	3.00												
ALLGOOD ROAD																			
19+53 RT		W11-1			30X30	1	6.25				13.75	1	13.75						
ROWLAND ROAD																			
50+27 RT		W11-1			30X30	1	6.25				13.75	1	13.75						
50+80 RT		R560-5			18X24	1	3.00				12.00	1	12.00						
51+14 RT		R1-2						36X36X36	1	3.90	13.00	1	13.00						
PROJECT TOTAL			1	1			116			25			284			15			16

STRIPING - PI NO 0008121

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS												RAISED PAVEMENT MARKERS	
	ARROW TYPE 2	BICYCLE MARKING ARROW TYPE 1	BICYCLE MARKING SYMBOL TYPE 4	SOLID STRIPE 5 INCH WHITE	SOLID STRIPE 5 INCH YELLOW	SOLID STRIPE 24 INCH WHITE	SOLID STRIPE 8 INCH WHITE	SKIP STRIPE 5 INCH WHITE	SKIP STRIPE 5 INCH YELLOW	HATCHING WHITE	HATCHING YELLOW	TYPE 1	TYPE 3
	EA	EA	EA	LF	LF	LF	LF	GLF	GLF	SY	SY	EA	EA
STA 101+50.00 TO STA 106+00.00	2	1	1	910	607	99	848	186	100	20	58	28	10
STA 106+00.00 TO STA 110+50.00	4	1	1	885	595		160	160	393		91	30	6
STA 110+50.00 TO STA 114+50.00	2			800	800				800			20	
STA 114+50.00 TO STA 118+65.00	5	1	1	773	594	60	386	60	272	63	37	28	12
PROJECT TOTAL	13	3	3	3368	2596	159	1394	406	1565	83	186	106	28

STRIPING - PI NO 0012789

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS												RAISED PAVEMENT MARKERS	
	ARROW TYPE 1	ARROW TYPE 2	BICYCLE MARKING ARROW TYPE 1	BICYCLE MARKING SYMBOL TYPE 4	SOLID STRIPE 5 INCH WHITE	SOLID STRIPE 5 INCH YELLOW	SOLID STRIPE 24 INCH WHITE	SOLID STRIPE 8 INCH WHITE	SKIP STRIPE 5 INCH WHITE	SKIP STRIPE 5 INCH YELLOW	HATCHING WHITE	HATCHING YELLOW	TYPE 1	TYPE 3
	EA	EA	EA	EA	LF	LF	LF	LF	GLF	GLF	SY	SY	EA	EA
STA 101+50.00 TO STA 106+00.00			2	2	613	20	37	702	107		14	6	2	
STA 106+00.00 TO STA 110+50.00	2		1	1	510		15	606	405					
STA 110+50.00 TO STA 114+50.00			1	1	662			235	138					
STA 114+50.00 TO STA 118+65.00		3	1	1	755	93	17	776	224				4	
PROJECT TOTAL	2	3	5	5	2542	113	70	2320	875		14	6	6	

8/28/2015 CONBOR

DEKALB · COUNTY · GEORGIA 1822

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REVISION DATES

SUMMARY QUANTITIES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No.
06-0004

SUMMARY OF QUANTITIES

SIGNALS - PI NO 0008121

LOCATION	INSTL NO	LS	STEEL WIRE STRAND CABLE, 3/8 IN	STRAIN POLE, TP IV
			LF	EA
ROCKBRIDGE ROAD AT SPRING DRIVE	1	1	15	1
PROJECT TOTAL			15	1

RETAINING WALLS - PI NO 0012789

LOCATION	MORTAR RUBBLE MASONRY	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND
	CY	LF
STA 115+75.00 TO STA 117+13.12	53.0	144
PROJECT TOTAL	53	144

CONCRETE SIDE BARRIERS - PI NO 0012789

LOCATION	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND	CONCRETE SIDE BARRIER, TP 6-S	CONCRETE SIDE BARRIER, TP 6-SA	CONCRETE SIDE BARRIER, TP 6-SB
	LF	LF	LF	LF
STA 110+00.00 TO STA 111+73.00	176	11	78	87
PROJECT TOTAL	176	11	78	87

ADJUST MANHOLE TO GRADE - PI NO 0008121

	EA
104+24.73, 1.43' RT	1
104+83.77, 2.10' LT	1
106+26.90, 4.44' LT	1
108+86.69, 12.00' LT	1
109+61.92, 1.28' LT	1
112+02.58, 5.81' LT	1
115+00.05, 6.22' LT	1
117+74.19, 7.25' LT	1
PROJECT TOTAL	8

ADJUST MANHOLE TO GRADE - PI NO 0012789

	EA
108+03.28, 21.76' RT	1
108+76.19, 20.30' RT	1
114+99.58, 28.77' RT	1
PROJECT TOTAL	3

WATER - PI NO 0008121

	WATER MAIN, 2 IN	WATER MAIN, 6 IN	WATER MAIN, 8 IN	WATER MAIN, 12 IN	WATER MAIN, 16 IN	WATER MAIN, 24 IN	GATE VALVE, 6 IN	GATE VALVE, 8 IN	GATE VALVE, 12 IN	GATE VALVE, 16 IN IN VAULT	GATE VALVE, 24 IN IN VAULT	AIR RELEASE VALVE ASSEMBLY 8 IN
	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
PROJECT TOTAL	60	405	2191	25	90	1693	10	12	1	2	2	2

WATER - PI NO 0008121

	AIR RELEASE VALVE ASSEMBLY 12 IN	INSERTION VALVE, 6 IN	INSERTION VALVE, 8 IN	INSERTION VALVE, 12 IN	INSERTION VALVE, 16 IN	FIRE HYDRANT	REMOVE EXISTING FIRE HYDRANT	WATER SERVICE LINE, 1 IN	WATER SERVICE LINE, 2 IN	RELOCATE EXIST WATER METER, INCL BOX	WATER METER -	BACKFLOW PREVENTION ASSEMBLY	ABANDONMENT OF WATER VALVES	FLOWABLE FILL
	EA	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	CY
PROJECT TOTAL	2	3	2	1	2	9	6	550	125	1	15	4	8	69

8/28/2015 CONBDR

DEKALB · COUNTY · GEORGIA 1822

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REVISION DATES

SUMMARY QUANTITIES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No.
06-0005

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY
XX-XX-XX	XXX-XXXX	XX-XX-XX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXX	XXX

8/28/2015 CONBOR

REVISION DATES

QUANTITIES (AMENDMENT)

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No.
07-0001

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY
XX-XX-XX	XXX-XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXX	XXX	XXX

REVISION DATES

QUANTITIES (CONSTRUCTION)

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		08-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR

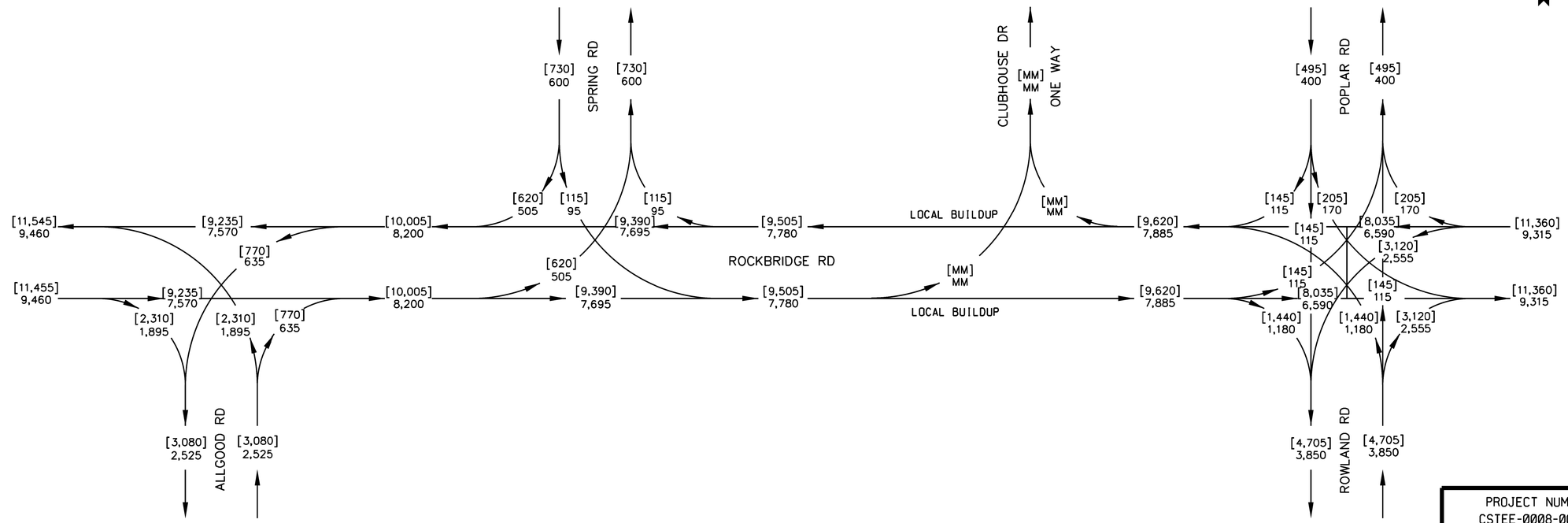
SHEET 1 OF 3

BUILD = NO BUILD

Bowler Engineers, Inc.
1650 Pearn Circle NE
Atlanta Georgia 30319
Tel 678-613-9909
Fax 404-417-0173
www.bowlerengineers.com

GEORGIA DEPARTMENT OF TRANSPORTATION
Office of Planning

DEKALB COUNTY



PROJECT NUMBER
CSTEE-0008-00(121)
P.I.# 0008121
DEKALB COUNTY
CR 7938/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO
ROWLAND ROAD
FUTURE 2018 [2038] ADT = 000
TRAFFIC VOLUMES

24 HOUR T = 7.3%
SU = 6.7%
COMB. = 0.6%

CAB
07/2014

8/28/2015 CONBOR

REVISION DATES

TRAFFIC DIAGRAM

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		10-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

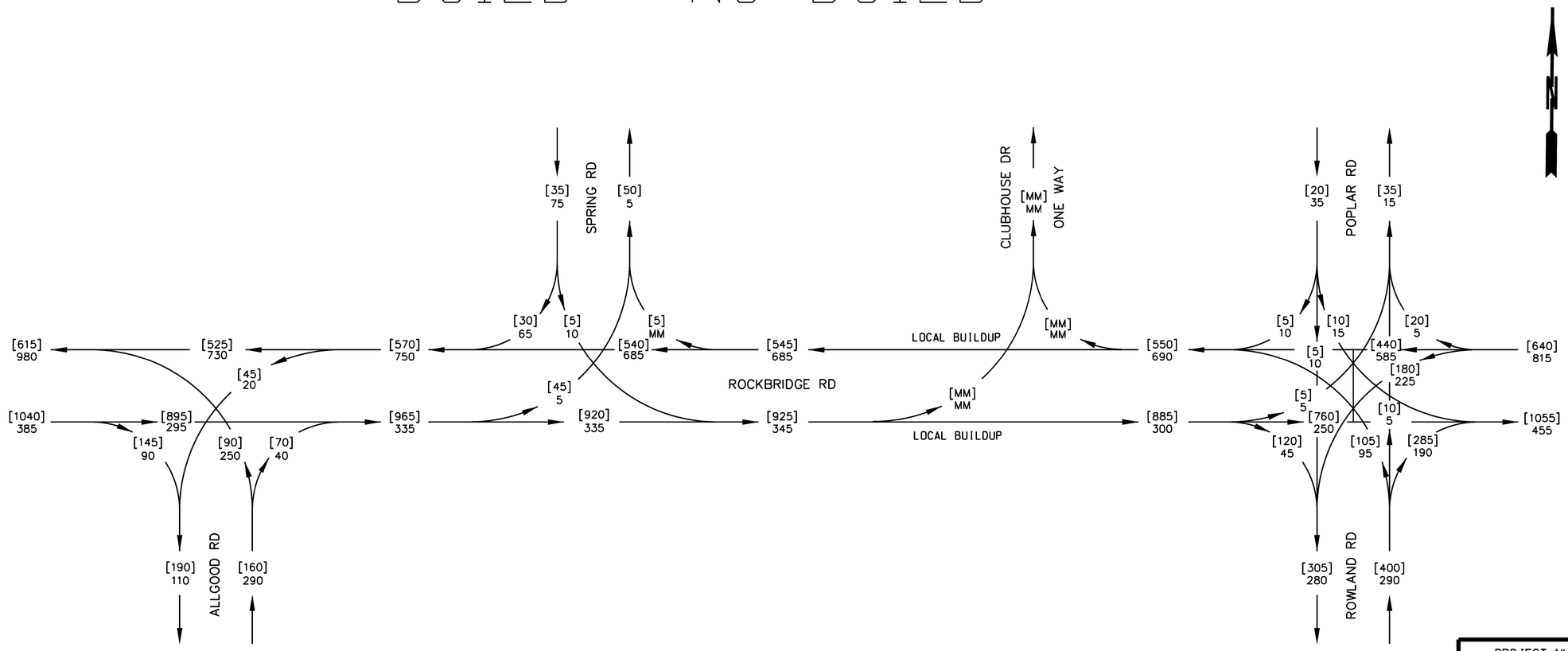
SHEET 2 OF 3

BUILD = NO BUILD

Bowler Engineers, Inc.
1650 Hearn Circle NE
Atlanta, Georgia 30319
Tel 678-613-9909
Fax 404-417-0173
www.bowlerengineers.com

GEORGIA DEPARTMENT OF TRANSPORTATION
Office of Planning

DEKALB COUNTY



PROJECT NUMBER
CSTEE-0008-00(121)
P.I.# 0008121
DEKALB COUNTY
CR 7938/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO
ROWLAND ROAD
FUTURE 2018 DHV
AM [PM] = 000 [000]
TRAFFIC VOLUMES
PEAK HOUR TRUCKS = 8.6%
SU = 7.9%
COMB. = 0.7%
CAB
06/2014

8/28/2015 CONBDR

REVISION DATES

TRAFFIC DIAGRAM

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		10-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

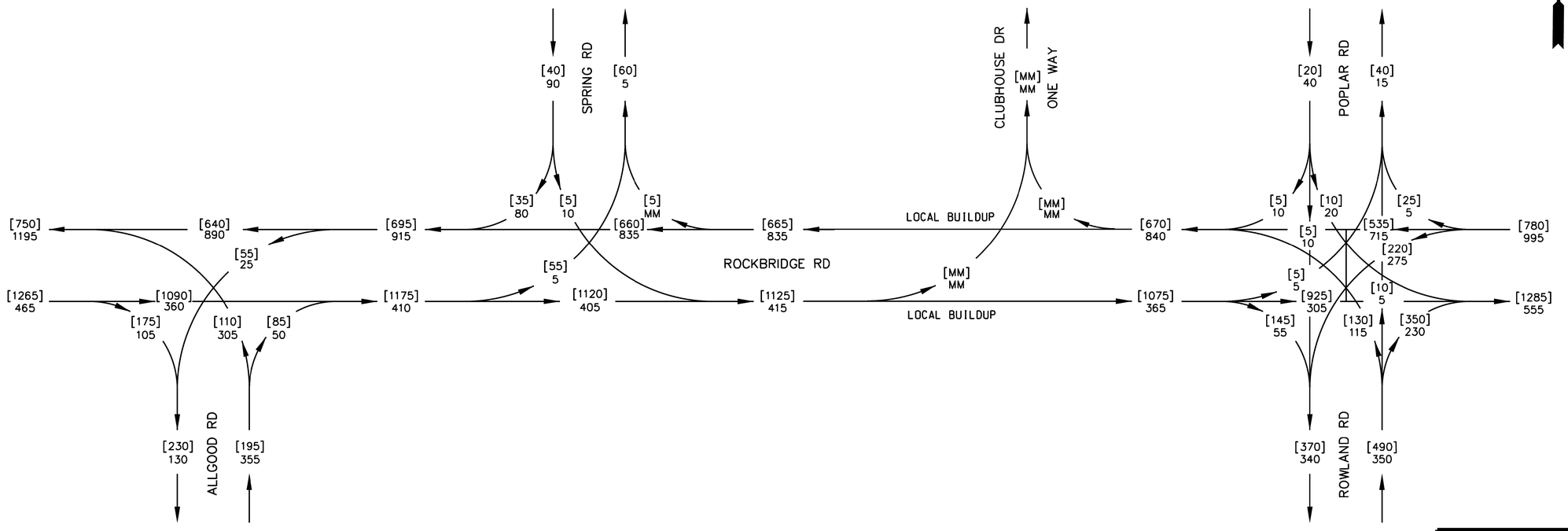
SHEET 3 OF 3

BUILD = NO BUILD

Bowler Engineers, Inc.
1650 Pearn Circle NE
Atlanta, Georgia 30319
Tel 678 613 9909
Fax 404-417-0173
www.bowlerengineers.com

GEORGIA DEPARTMENT OF TRANSPORTATION
Office of Planning

DEKALB COUNTY



PROJECT NUMBER
CSTEE-0008-00(121)
P.I.# 0008121
DEKALB COUNTY
CR 7938/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO
ROWLAND ROAD
FUTURE 2038 DHV
AM [PM] = 000 [000]
TRAFFIC VOLUMES

PEAK HOUR TRUCKS = 8.6%
SU = 7.9%
COMB. = 0.7%

CAB
06/2014

8/28/2015 CONBOR

REVISION DATES

TRAFFIC DIAGRAM

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

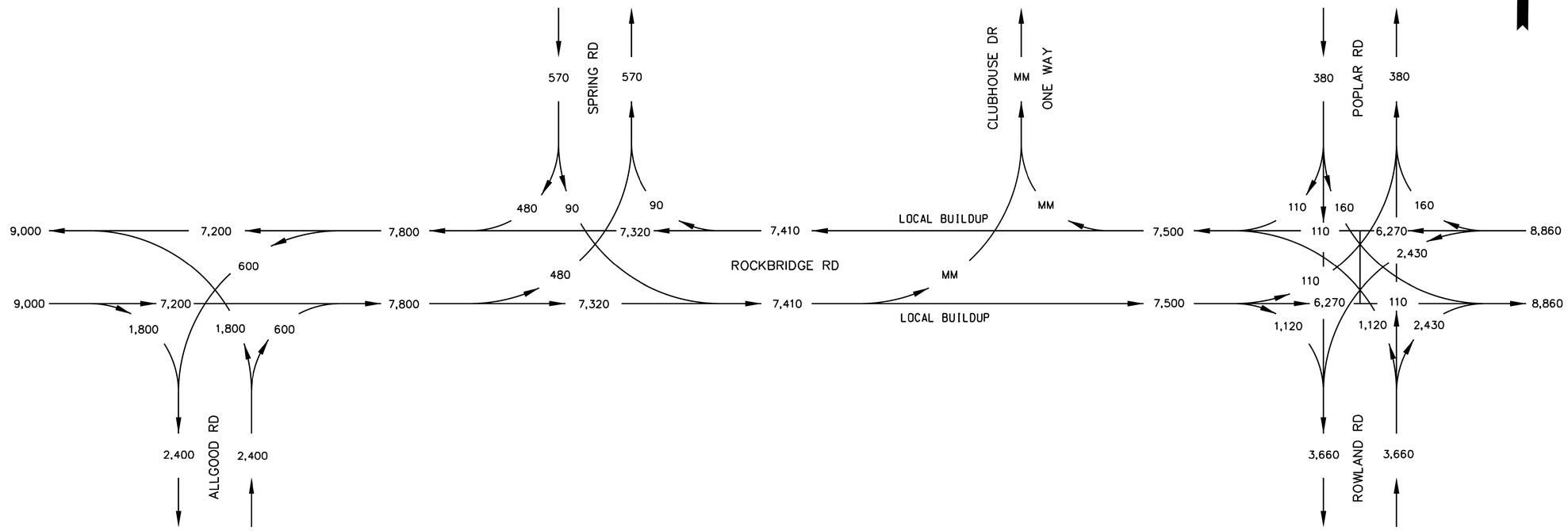
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		10-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SHEET 1 OF 2

Bowler Engineers, Inc.
1650 Fearn Circle NE
Atlanta, Georgia 30319
Tel 678-613-9909
Fax 404-417-0173
www.bowlerengineers.com

GEORGIA DEPARTMENT OF TRANSPORTATION
Office of Planning

DEKALB COUNTY



PROJECT NUMBER
CSTEE-0008-00(121)
P.I.# 0008121
DEKALB COUNTY

CR 7938/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO
ROWLAND ROAD
EXISTING 2013 ADT = 000
TRAFFIC VOLUMES

24 HOUR T = 7.3%
SU = 6.7%
COMB. = 0.6%

CAB
06/2014

8/28/2015 CONBDR

REVISION DATES

TRAFFIC DIAGRAM

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

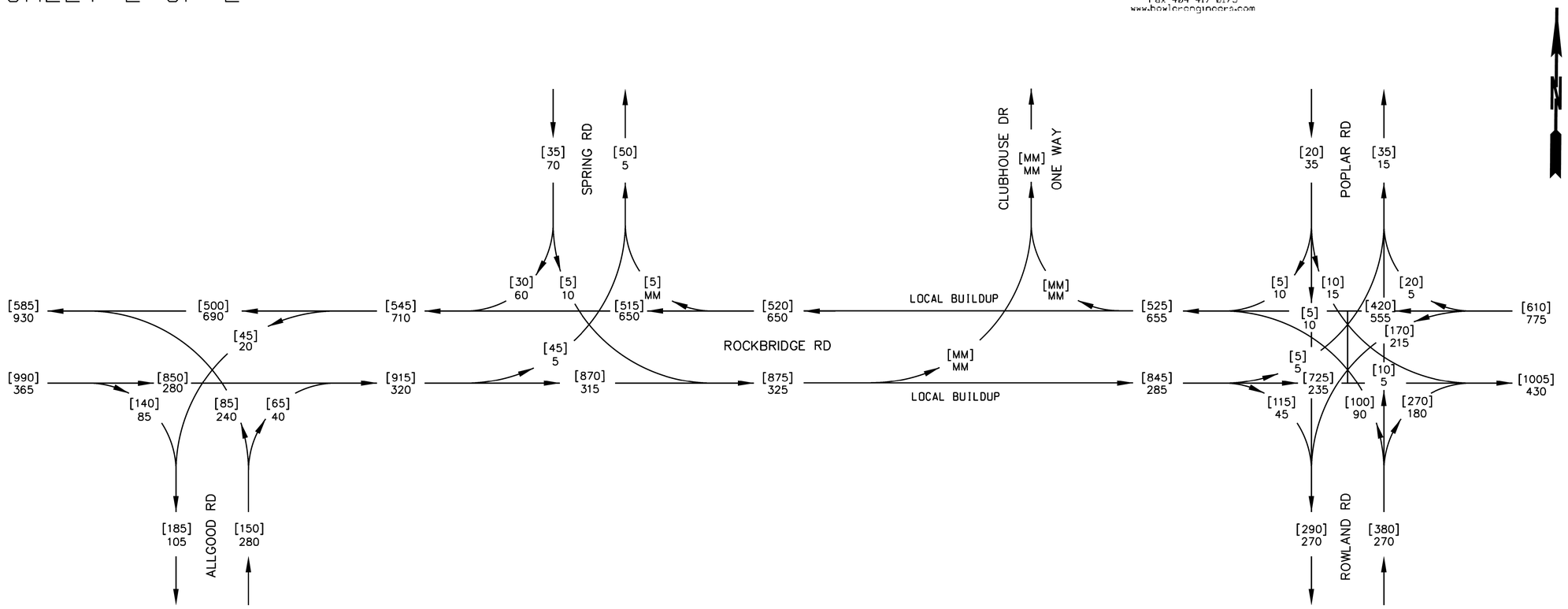
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		10-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SHEET 2 OF 2

Bowler Engineers, Inc.
1650 Ewarn Circle NE
Atlanta, Georgia 30319
Tel 678 613 9909
Fax 404-417-0173
www.bowlerengineers.com

GEORGIA DEPARTMENT OF TRANSPORTATION
Office of Planning

DEKALB COUNTY



PROJECT NUMBER
CSTEE-0008-00(121)
P.I.# 0008121
DEKALB COUNTY

CR 7938/ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO
ROWLAND ROAD
EXISTING 2013 DHV
AM [PM] = 000 [000]
TRAFFIC VOLUMES
PEAK HOUR TRUCKS = 8.6%
SU = 7.9%
COMB. = 0.7%

CAB
06/2014

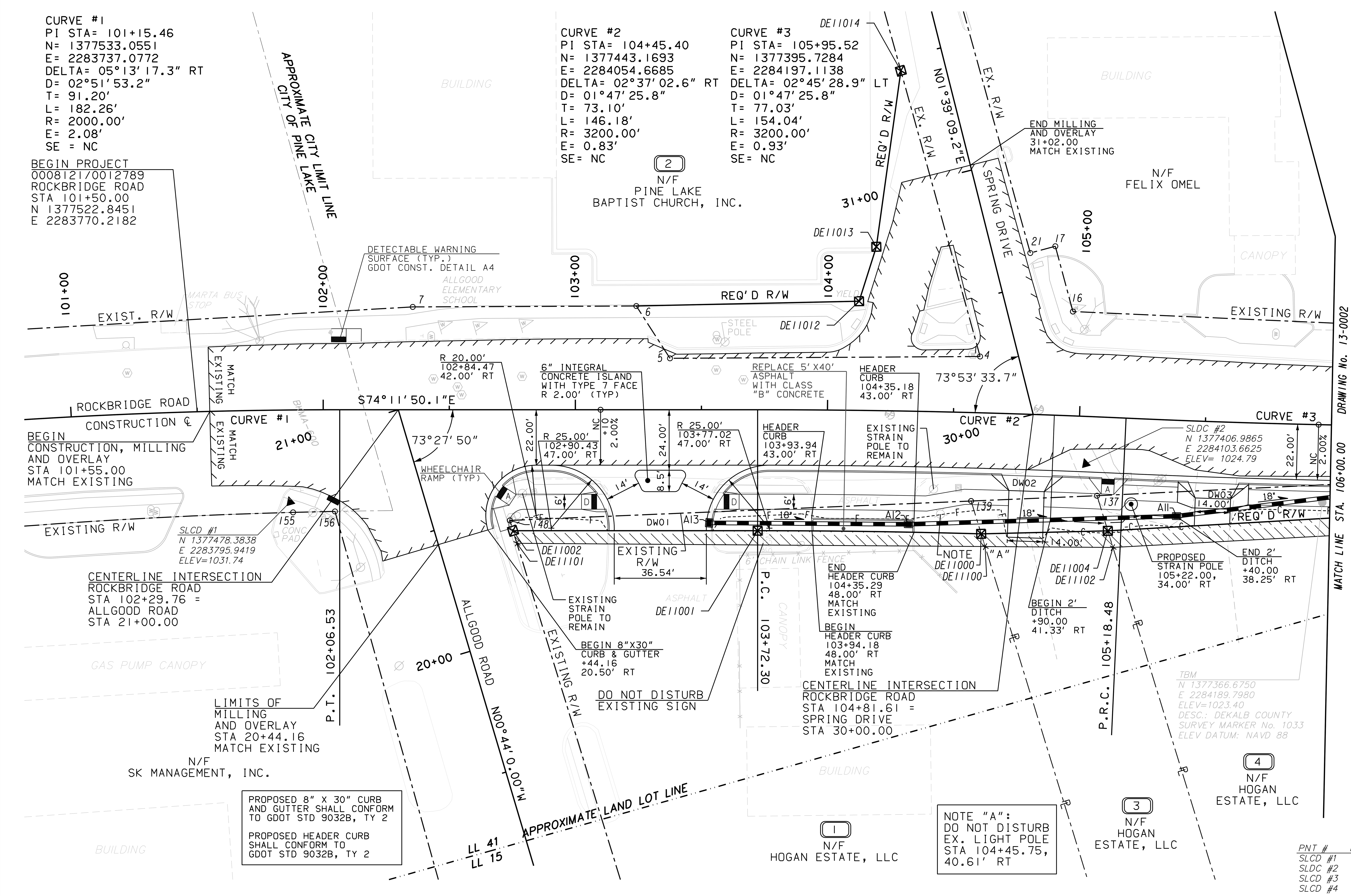
8/28/2015 CONBOR

REVISION DATES

TRAFFIC DIAGRAM

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		10-0005
VERIFIED:		DATE:		


CURVE #1
PI STA= 101+15.46
N= 1377533.0551
E= 2283737.0772
DELTA= 05°13'17.3" RT
D= 02°51'53.2"
T= 91.20'
L= 182.26'
R= 2000.00'
E= 2.08'
SE = NC
CURVE #2
PI STA= 104+45.40
N= 1377443.1693
E= 2284054.6685
DELTA= 02°37'02.6" RT
D= 01°47'25.8"
T= 73.10'
L= 146.18'
R= 3200.00'
E= 0.83'
SE= NC
CURVE #3
PI STA= 105+95.52
N= 1377395.7284
E= 2284197.1138
DELTA= 02°45'28.9" LT
D= 01°47'25.8"
T= 77.03'
L= 154.04'
R= 3200.00'
E= 0.93'
SE= NC
BEGIN PROJECT
0008121/0012789
ROCKBRIDGE ROAD
STA 101+50.00
N 1377522.8451
E 2283770.2182
APPROXIMATE CITY LIMIT LINE
CITY OF PINE LAKE
2
N/F
PINE LAKE
BAPTIST CHURCH, INC.
N/F
FELIX OMEL
DETECTABLE WARNING
SURFACE (TYP.)
GDOT CONST. DETAIL A4
ALLGOOD ELEMENTARY SCHOOL
EXIST. R/W
REQ'D R/W
EXISTING R/W
ROCKBRIDGE ROAD
CONSTRUCTION ℄
S74°11'50.1"E
73°27'50"
73°53'33.7"
SPRING DRIVE
N01°39'09.2"E
EX. R/W
END MILLING
AND OVERLAY
31+02.00
MATCH EXISTING
R 20.00'
102+84.47
42.00' RT
6" INTEGRAL
CONCRETE ISLAND
WITH TYPE 7 FACE
R 2.00' (TYP)
REPLACE 5' X40'
ASPHALT
WITH CLASS
"B" CONCRETE
HEADER CURB
104+35.18
43.00' RT
BEGIN
CONSTRUCTION, MILLING
AND OVERLAY
STA 101+55.00
MATCH EXISTING
R 25.00'
102+90.43
47.00' RT
R 25.00'
103+77.02
47.00' RT
HEADER CURB
103+93.94
43.00' RT
EXISTING
STRAIN
POLE TO
REMAIN
SLDC #2
N 1377406.9865
E 2284103.6625
ELEV= 1024.79
WHEELCHAIR RAMP (TYP)
SLCD #1
N 1377478.3838
E 2283795.9419
ELEV=1031.74
CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 102+29.76 =
ALLGOOD ROAD
STA 21+00.00
EXISTING R/W
36.54'
END
HEADER CURB
104+35.29
48.00' RT
MATCH
EXISTING
NOTE "A"
PROPOSED
STRAIN POLE
105+22.00
34.00' RT
END 2'
DITCH
+40.00
38.25' RT
EXISTING
STRAIN
POLE TO
REMAIN
BEGIN 8"X30"
CURB & GUTTER
+44.16
20.50' RT
BEGIN
HEADER CURB
103+94.18
48.00' RT
MATCH
EXISTING
BEGIN 2'
DITCH
+90.00
41.33' RT
ALLGOOD ROAD
N00°44'0.00"W
EXISTING R/W
DO NOT DISTURB
EXISTING SIGN
CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 104+81.61 =
SPRING DRIVE
STA 30+00.00
P.C. 103+72.30
P.R.C. 105+18.48
P.T. 102+06.53
TBM
N 1377366.6750
E 2284189.7980
ELEV=1023.40
DESC.: DEKALB COUNTY
SURVEY MARKER No. 1033
ELEV DATUM: NAVD 88
LIMITS OF
MILLING
AND OVERLAY
STA 20+44.16
MATCH EXISTING
N/F
SK MANAGEMENT, INC.
GAS PUMP CANOPY
APPROXIMATE LAND LOT LINE
LL 41
LL 15
1
N/F
HOGAN ESTATE, LLC
3
N/F
HOGAN
ESTATE, LLC
4
N/F
HOGAN
ESTATE, LLC
NOTE "A":
DO NOT DISTURB
EX. LIGHT POLE
STA 104+45.75,
40.61' RT
PROPOSED 8" X 30" CURB
AND GUTTER SHALL CONFORM
TO GDOT STD 9032B, TY 2
PROPOSED HEADER CURB
SHALL CONFORM TO
GDOT STD 9032B, TY 2
MATCH LINE STA. 106+00.00
DRAWING No. 13-0002

POINT	STATION	OFFSET
148	102+74.01	43.92 RT
139	104+57.91	35.09 RT
DE11000	104+62.33	48.00 RT
DE11001	103+72.30	48.00 RT
DE11002	102+75.27	48.00 RT
DE11100	104+64.05	53.00 RT
DE11101	102+76.81	53.00 RT
6	103+24.17	41.16 LT
DE11012	104+12.00	43.32 LT
DE11013	104+18.45	65.00 LT
DE11014	104+26.80	135.00 LT
4	104+59.93	22.33 LT
5	103+37.53	20.40 LT
137	105+08.28	31.26 RT
DE11004	105+13.23	45.00 RT
DE11102	105+15.58	51.50 RT

CONTROL POINT DATA TABLE

PNT #	NORTHING	EASTING	ELEV
SLCD #1	1377478.3838	2283795.9419	1031.74
SLDC #2	1377406.9865	2284103.6625	1024.79
SLCD #3	1377282.0988	2285431.1881	980.14
SLCD #4	1377289.3653	2285724.1920	974.51

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

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

DEKALB COUNTY GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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

DRAWING No. 13-0001

PROPOSED 8" X 30" CURB AND GUTTER SHALL CONFORM TO GDOT STD 9032B, TY 2

PROPOSED HEADER CURB SHALL CONFORM TO GDOT STD 9032B, TY 2

CURVE #3
PI STA= 105+95.52
N= 1377395.7284
E= 2284197.1138
DELTA= 02°45'28.9" LT
D= 01°47'25.8"
T= 77.03'
L= 154.04'
R= 3200.00'
E= 0.93'
SE= NC

CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 109+62.27 =
CLUBHOUSE DRIVE
STA 40+00.00

CURVE #4
PI STA= 109+40.54
N= 1377302.5776
E= 2284529.3514
DELTA= 16°33'30.2" LT
D= 07°09'43.1"
T= 116.41'
L= 231.20'
R= 800.00'
E= 8.43'
SE= NC

N/F FELIX OMEL

END MILLING AND OVERLAY
BEGIN FULL DEPTH PAVING
STA 106+10.00

N/F ROCKBRIDGE PINE LAKE TRUST

N/F JOHN EVANS

N/F GLOBAL DIRECTION, LLC

END MILLING AND OVERLAY
40+50.00
MATCH EXISTING

APPROXIMATE LAND LOT LINE AND APPROXIMATE CITY LIMIT LINE CITY OF PINE LAKE

BEGIN MILLING AND OVERLAY
STA 110+30.00

EXISTING R/W

CLUBHOUSE DRIVE

N00°02'26.0"E

P.T. 106+72.52

P.C. 108+24.13

106+00 107+00 108+00 109+00 110+00 41+00

ONE STORY BRICK

BUILDING

STEEL POLE

6" INTEGRAL CONCRETE ISLAND WITH TYPE 7 FACE

MATCH LINE STA. 110+50.00

DRAWING No. 13-0001

DRAWING No. 13-0003

CURVE #3

S74°20'16.4"E CONSTRUCTION ℄

ROCKBRIDGE ROAD

84°16'20.4" CURVE #4

R 5.00' 107+55.00 0.00' RT

R 20.00' 107+29.92 42.00' RT

R 2.00' (TYP.)

R 5.00' 107+85.00 0.00' RT

R 15.00' 109+95.81 37.00' RT

NOTE "B"

NOTE "C"

BEGIN MILLING AND OVERLAY
STA 40+21.70

22.00' NC 2.00%

17.00'

DETECTABLE WARNING SURFACE (TYP.)
GDOT CONST. DETAIL A4

REMOVE 15" CMP

15" CMP INV= 1019.24 / INV= 1018.73

A10 A9 A8 A8.1 A8.2 A7 A6 A6.1 A6.2

DW04 DW05 15.16' DW06 24.00' DW07

DE11005 162 DE11202 R 15.00' 106+25.01 37.00' RT

15.03'

LL 41 LL 15

DE11200 DE11201 DE11203 DE11206 R 15.00' 106+79.75 37.00' RT R 15.00' 106+69.79 37.00' RT DE11204 DE11205

EXIST. R/W 163

R 15.00' 108+04.06 37.00' RT 121

DE11103 DE11111 DE11210 +13.33 56.12' RT +15.03 66.22' RT DE11209 DE11208

+19.18 49.97' RT

+34.25 50.54' RT 3.00'

EX. R/W

DE11104

R 15.00' 108+56.57 37.00' RT R 15.00' 109+10.87 57.34' RT

R 10.00' 108+51.71 39.89' RT DE11110 +54.87 49.96' RT DE11207 +51.04 60.54' RT

R 10.00' 109+47.64 40.45' RT DE11212 +44.84 90.44' RT

R 10.00' 109+97.96 57.29' RT

DE11109

DE11108 HEADER CURB 110+22.00 41.44' RT

BEGIN HEADER CURB 110+22.00 46.44' RT

+18.19 59.63' RT DE11211 +10.13 66.80' RT +10.42 91.14' RT

BEGIN WALL NO. 1 CONCRETE SIDE BARRIER TP 6-S/6-SA/6-SB STA 110+00.00, 33.50' RT

REQ'D R/W

APPROX. L.L.L.

APPROXIMATE CITY LIMIT LINE CITY OF PINE LAKE

WOODS LINE

BUILDING (POST OFFICE)

BUILDING

BUILDING

ASPHALT

NOTE "B": DO NOT DISTURB EX. MAILBOXES STA 106+90.69, 39.82' RT

NOTE "C": AREA BETWEEN HEADER CURB AND CONCRETE SIDE BARRIER SHALL BE SODDED.

4 N/F HOGAN ESTATE, LLC

5 N/F MORRIS GOLDSMITH, NANCY EINBINDER AND DAVID GOLDSMITH TRUSTEES UNDER THE BESS GOLDSMITH IRREVOCABLE TRUST DATED NOVEMBER 1, 1991

6 N/F JON SHAO AND QI ZHANG AS J.T.W.R.O.S

POINT	STATION	OFFSET
131	106+16.04	22.58 RT
DE11005	106+19.79	35.50 RT
162	106+21.79	42.44 RT
DE11204	107+23.00	41.15 RT
163	107+91.42	40.56 RT
121	107+92.54	44.64 RT
DE11103	107+94.03	50.00 RT
DE11104	107+23.00	50.00 RT
DE11200	106+65.00	41.66 RT
DE11201	106+65.00	50.03 RT
DE11202	106+23.96	50.00 RT
DE11203	106+85.00	41.48 RT
DE11205	107+23.00	57.00 RT
DE11206	106+85.00	57.00 RT
DE11006	109+90.00	46.81 RT
DE11108	110+25.00	55.00 RT
DE11109	109+30.00	58.00 RT
DE11110	108+60.00	58.00 RT
DE11111	107+95.41	55.00 RT
DE11210	108+05.00	55.43 RT
DE11207	108+60.00	75.00 RT
DE11208	108+20.00	80.00 RT
DE11209	108+05.00	80.00 RT
DE11211	110+15.00	95.00 RT
DE11212	109+40.00	95.00 RT

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

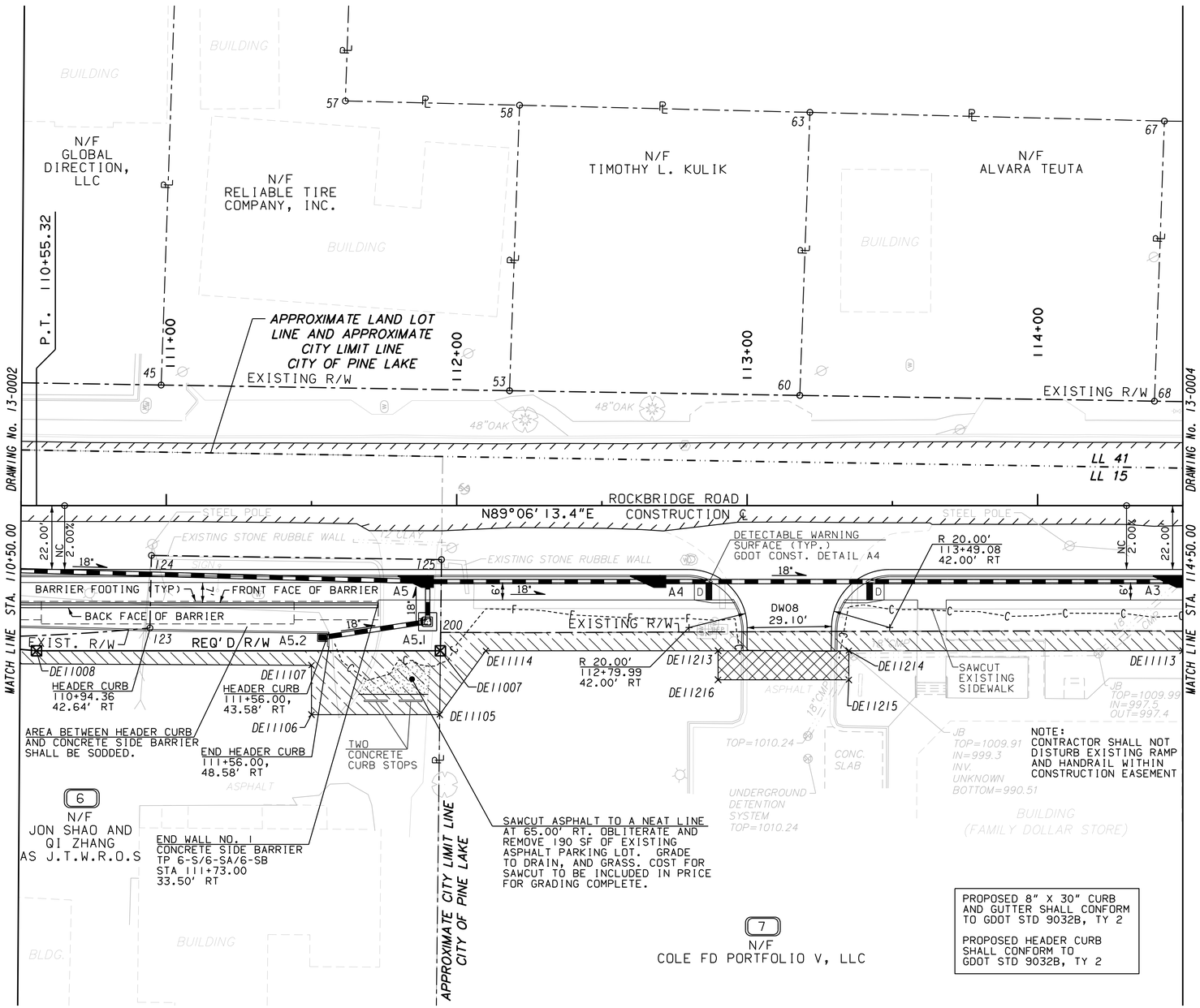
REVISION DATES

MAINLINE PLAN

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

		DATE:		DRAWING No.
CHECKED:		DATE:		13-0002
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR



POINT	STATION	OFFSET
123	110+94.38	42.14 RT
124	110+94.90	17.15 RT
125	111+94.76	18.59 RT
200	111+94.47	43.66 RT
DE11007	111+94.40	50.00 RT
DE11008	110+55.32	50.00 RT
DE11105	111+94.14	72.00 RT
DE11106	111+50.00	72.00 RT
DE11107	111+50.00	55.00 RT
DE11113	114+50.00	50.00 RT
DE11114	112+10.00	50.00 RT
DE11213	112+90.00	50.00 RT
DE11214	113+35.00	50.00 RT
DE11215	113+35.00	60.00 RT
DE11216	112+90.00	60.00 RT

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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LIMIT OF ACCESS
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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB · COUNTY · GEORGIA 1822

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0 20 40 80

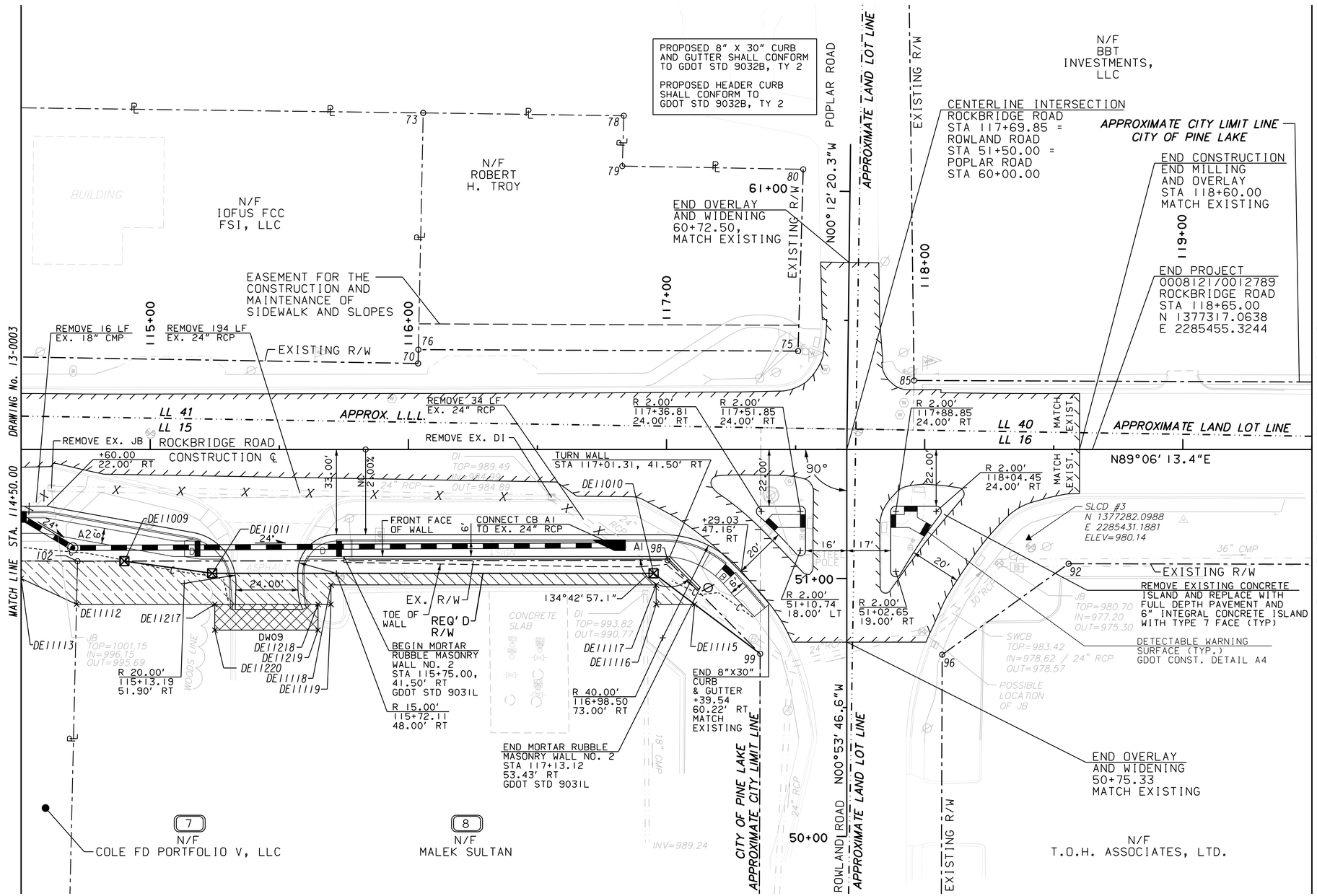
REVISION DATES

MAINLINE PLAN

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR



POINT	STATION	OFFSET
102	114+71.84	43.30 RT
DE11012	114+71.46	60.00 RT
DE11013	114+50.00	50.00 RT
DE11009	114+90.00	43.28 RT
98	117+00.40	42.96 RT
99	117+36.27	79.19 RT
DE11010	116+95.00	48.00 RT
DE11011	115+24.00	48.00 RT
DE11015	117+10.88	60.00 RT
DE11016	116+96.00	60.00 RT
DE11017	116+96.00	52.50 RT
DE11018	115+70.00	52.50 RT
DE11019	115+70.00	60.00 RT
DE11217	115+25.00	60.00 RT
DE11218	115+65.00	60.00 RT
DE11219	115+65.00	70.00 RT
DE11220	115+25.00	70.00 RT

PROPERTY AND EXISTING R/W LINE
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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES		

MAINLINE PLAN

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		13-0004
VERIFIED:		DATE:		

8/28/2015 CONBDR

4/5/2018 3:38:23 PM	GPLOT-V8	\\vhb\proj\Buford\63023.00 DeKalb_Rockbridge\cad\te\DGN\0008121_13-0005.dgn	P. I. No.
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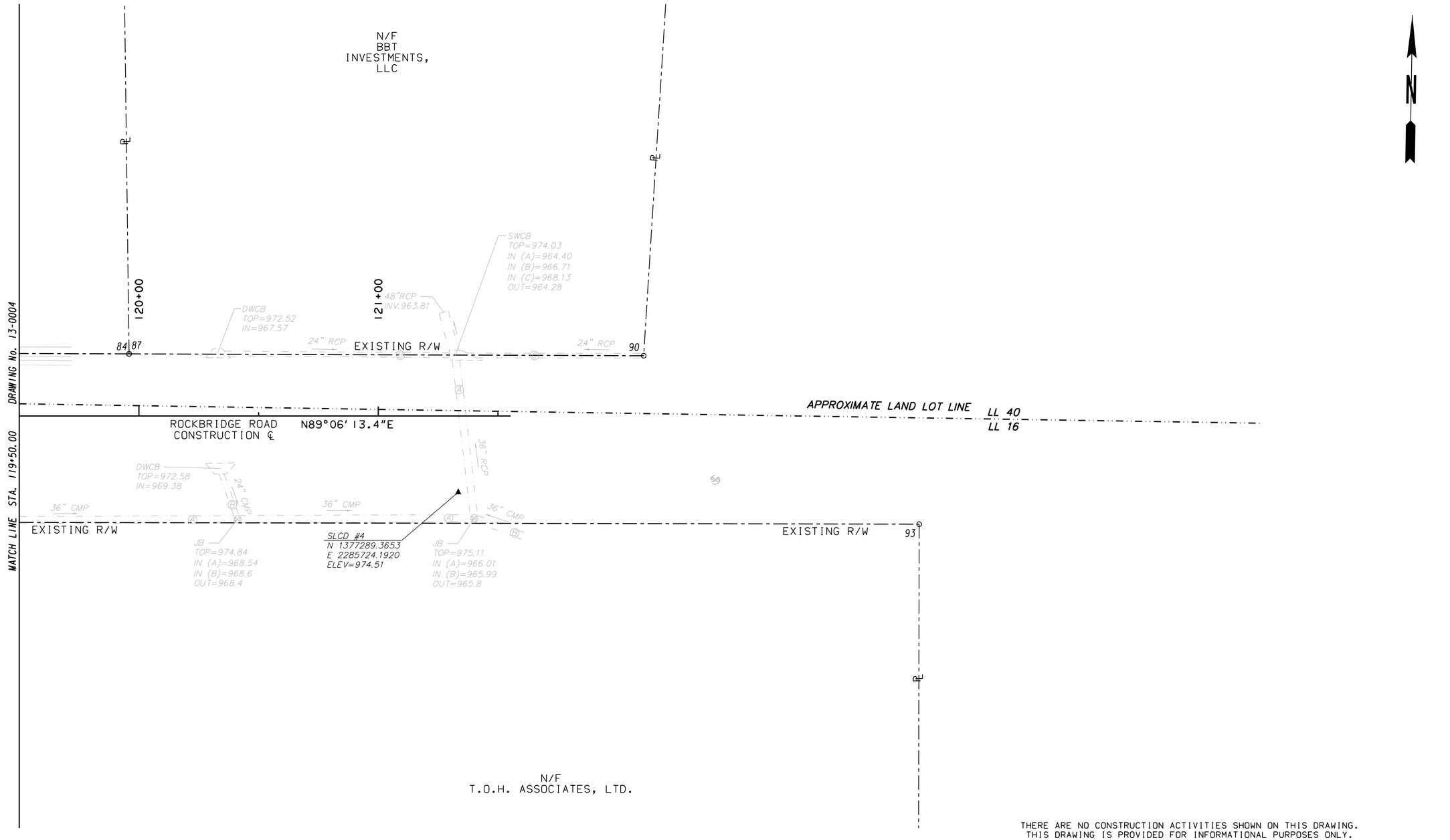

THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

PROPERTY AND EXISTING R/W LINE	℄
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
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LIMIT OF ACCESS	
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ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

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SCALE IN FEET
0 20 40 80

REVISION DATES		

MAINLINE PLAN

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		13-0005
VERIFIED:		DATE:		

8/28/2015 CONBDR

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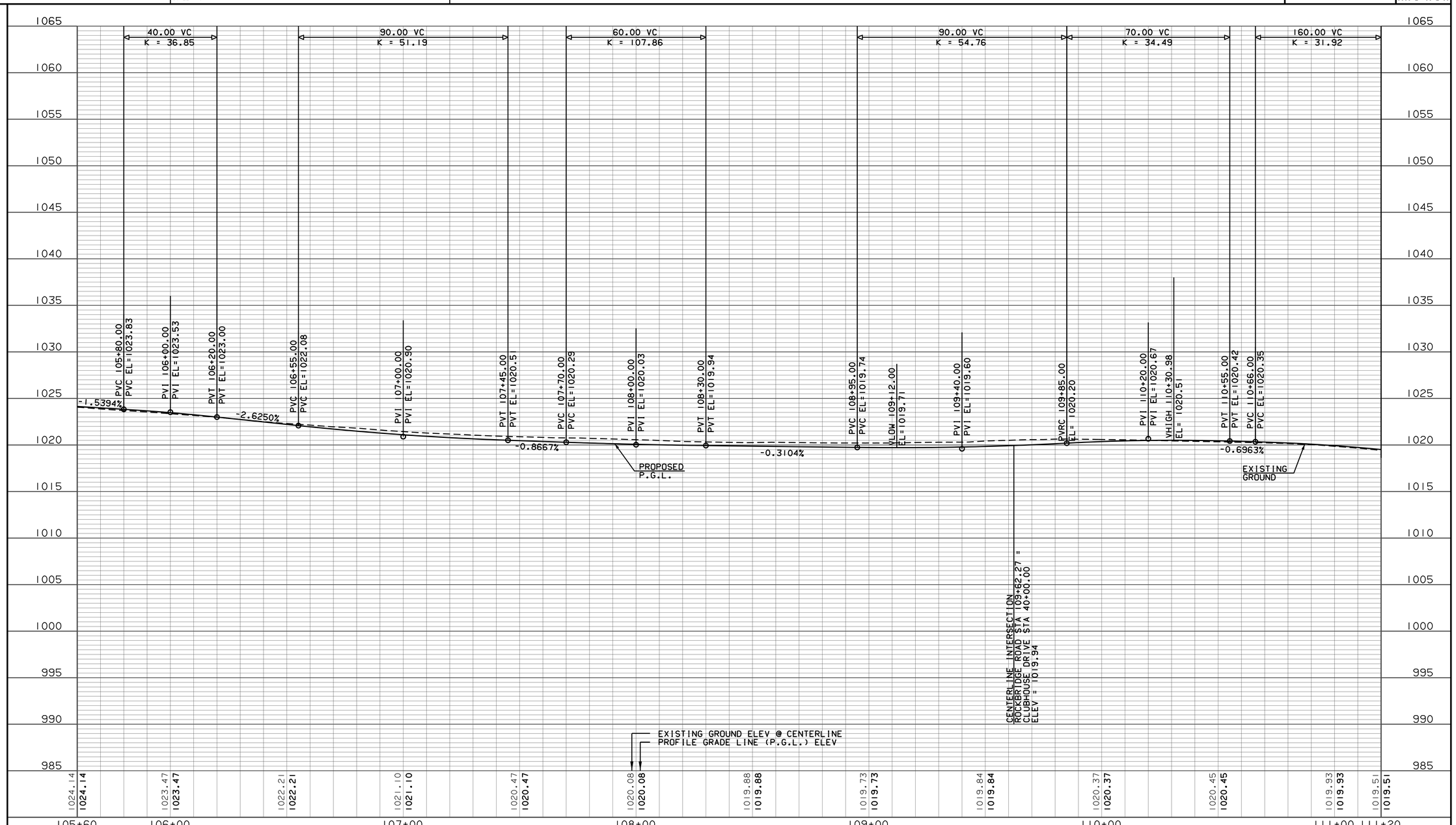

SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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BEGIN LIMIT OF ACCESS.....BLA
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LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB COUNTY GEORGIA 1822

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REVISION DATES

MAINLINE PROFILE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		15-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR

4/5/2018 3:42:41 PM	GPLOT-V8	\\vhb\proj\Buford\63023.00 DeKalb_Rockbridge\cad\te\DGN\0008121_15.dgn	P. I. No.
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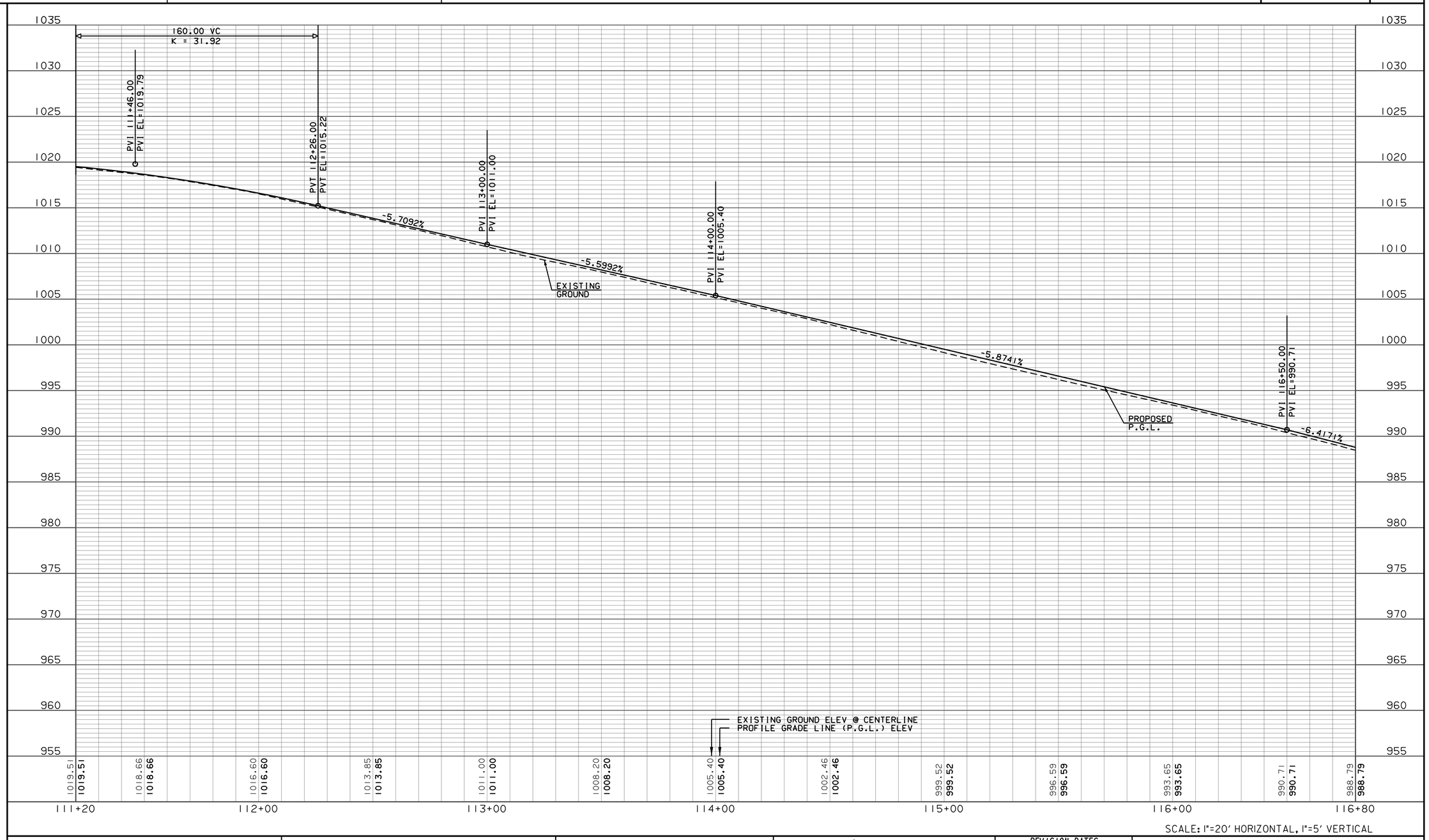

SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
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BEGIN LIMIT OF ACCESS.....BLA
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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB · COUNTY · GEORGIA 1822

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REVISION DATES

MAINLINE PROFILE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		15-0003
VERIFIED:		DATE:		

8/28/2015 CONBDR

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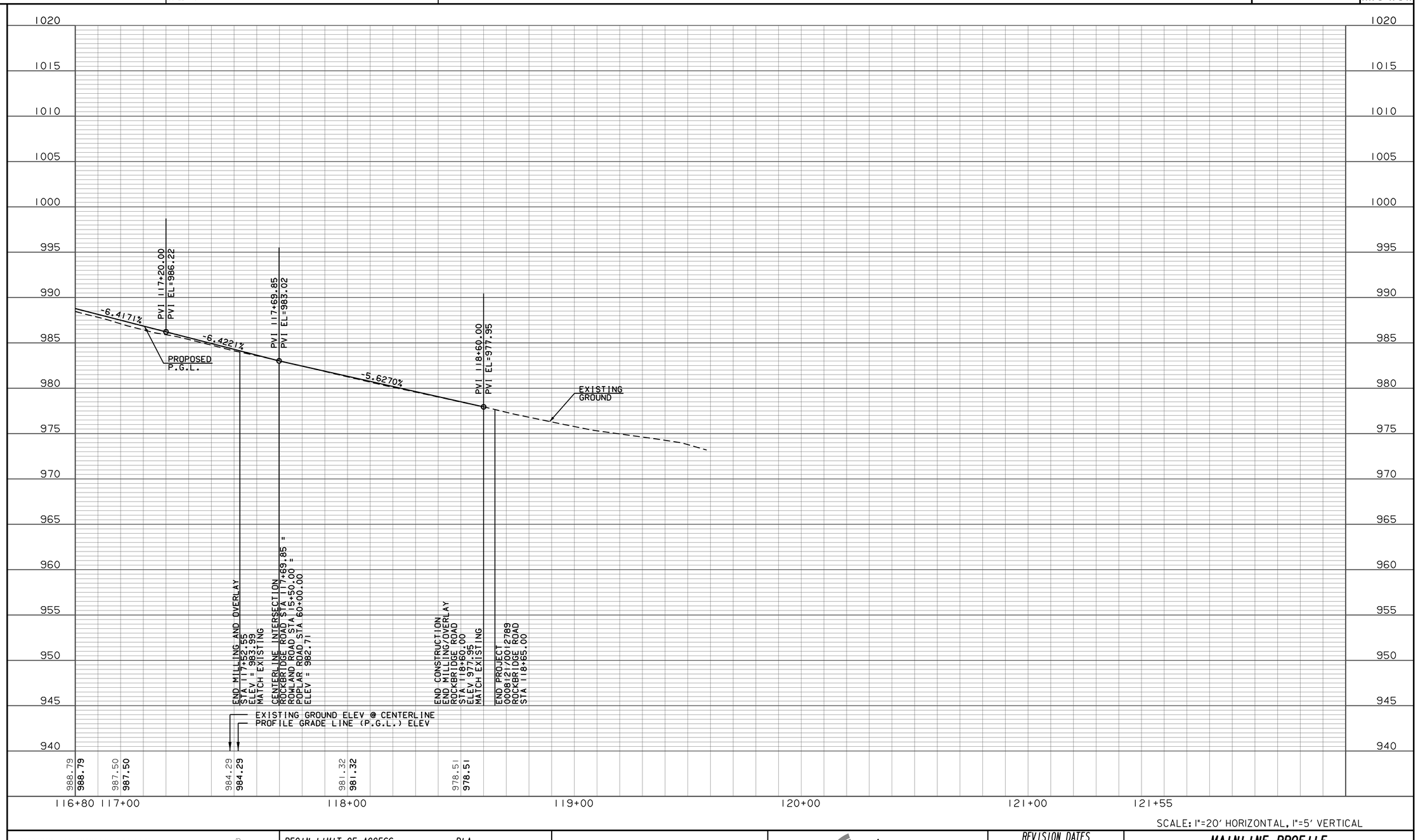

SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

PROPERTY AND EXISTING R/W LINE	—P—
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	—C— —F—
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

DEKALB · COUNTY · GEORGIA 1822

vhb

REVISION DATES		

MAINLINE PROFILE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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VERIFIED:		DATE:		

8/28/2015 CONBDR

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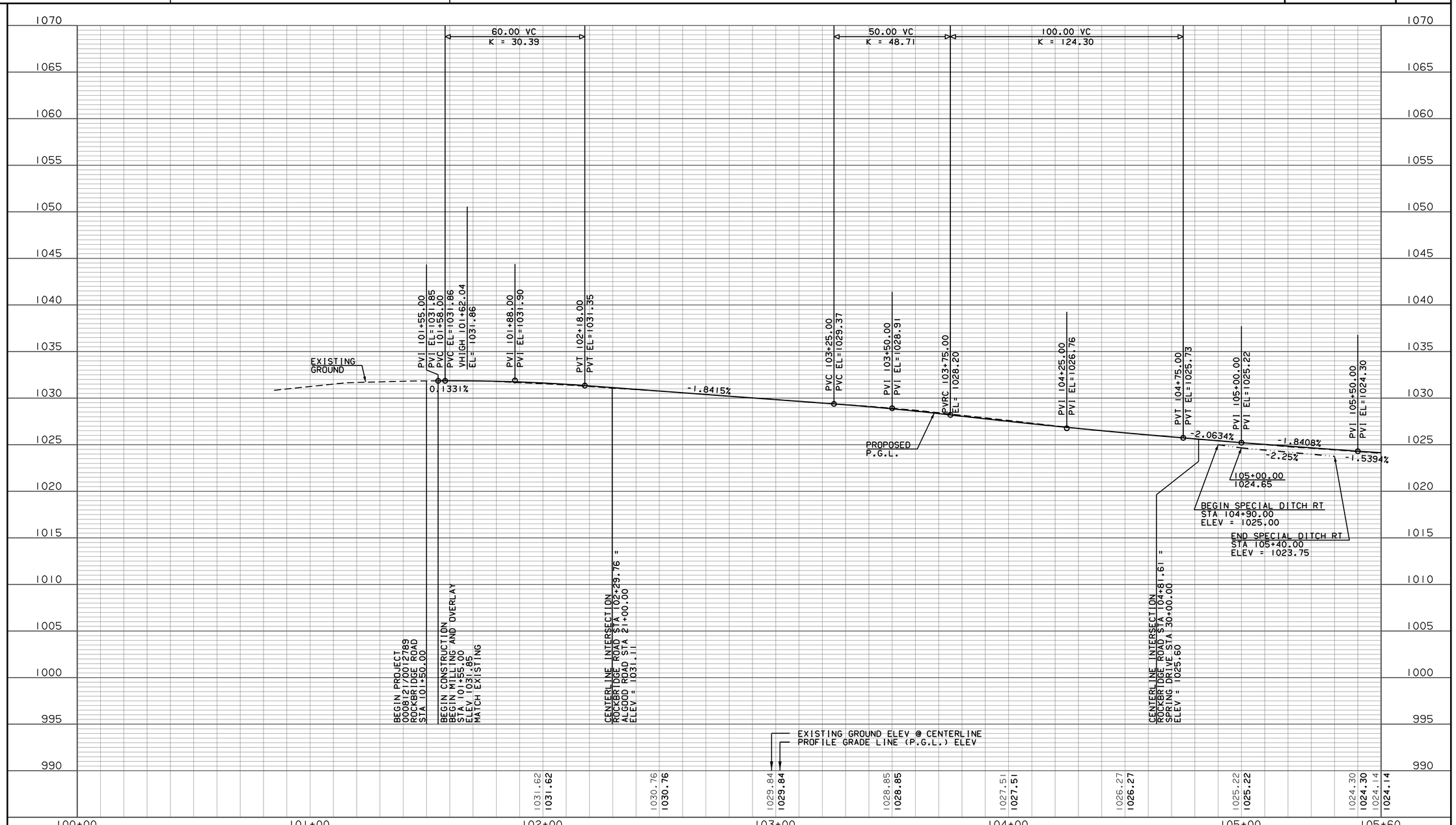

SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

PROPERTY AND EXISTING R/W LINE	—P—
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	—C— —F—
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

DEKALB · COUNTY · GEORGIA · 1822

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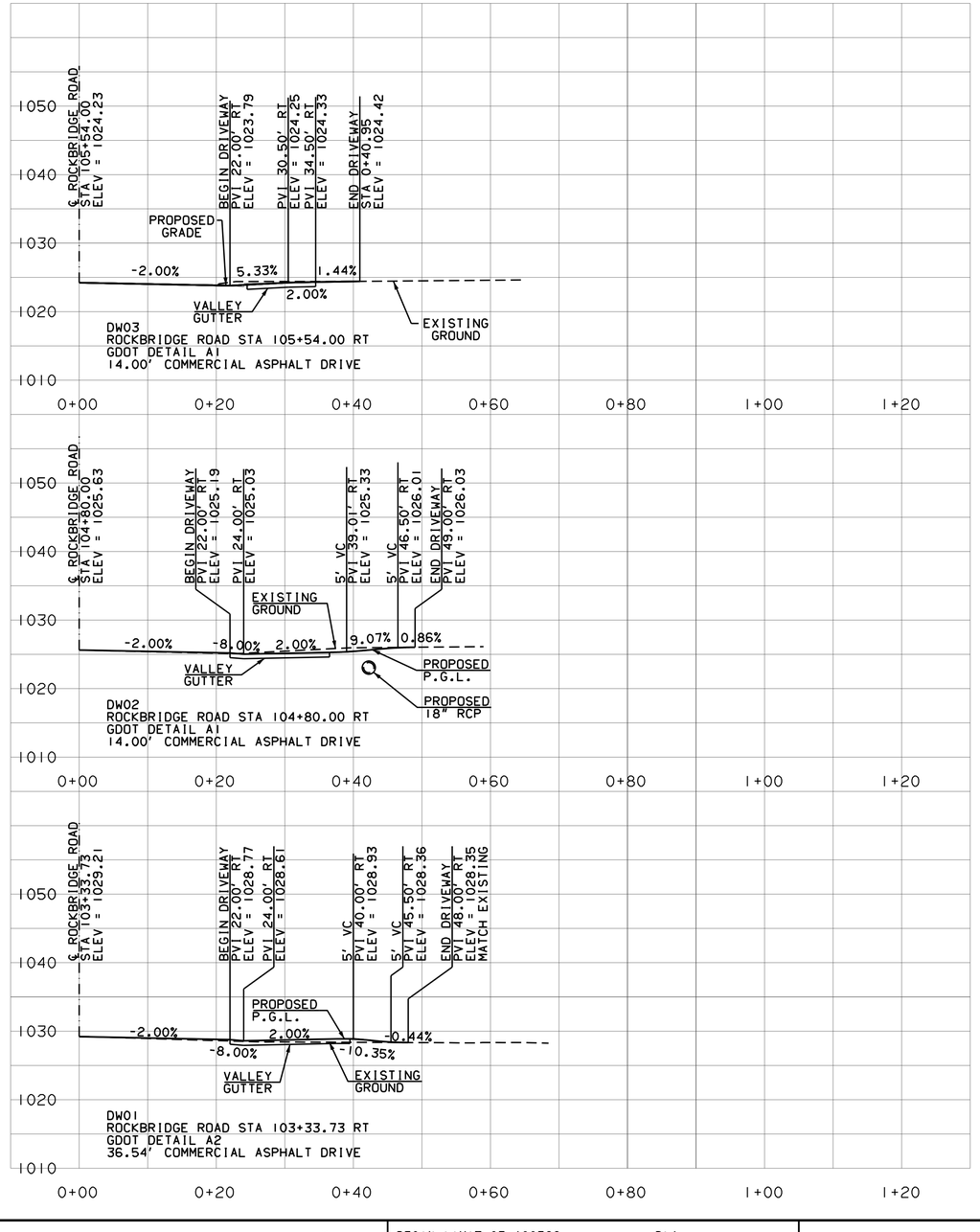
REVISION DATES		

MAINLINE PROFILE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		15-0001
VERIFIED:		DATE:		

8/28/2015 CONBDR



SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

vhb

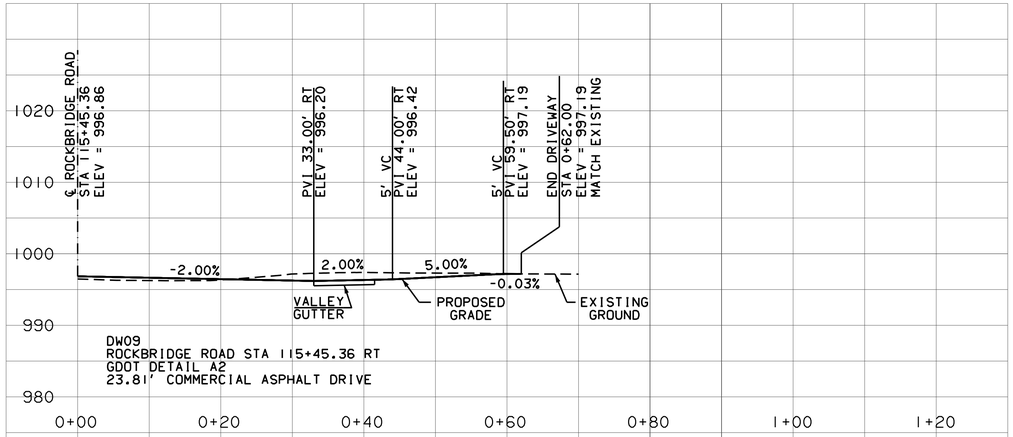
REVISION DATES

DRIVEWAY PROFILE

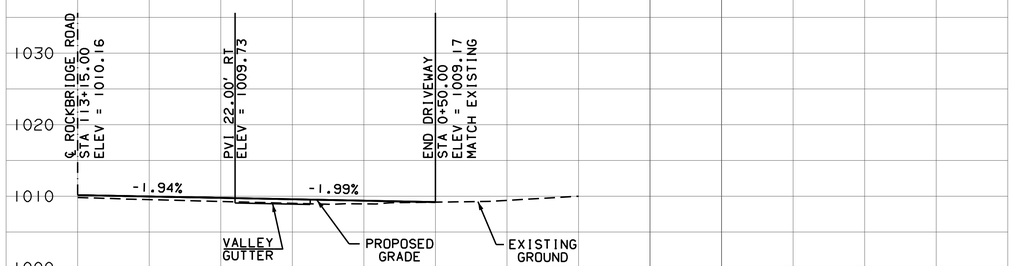
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

		DATE:		DRAWING No.
CHECKED:				
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		17-0001
VERIFIED:		DATE:		

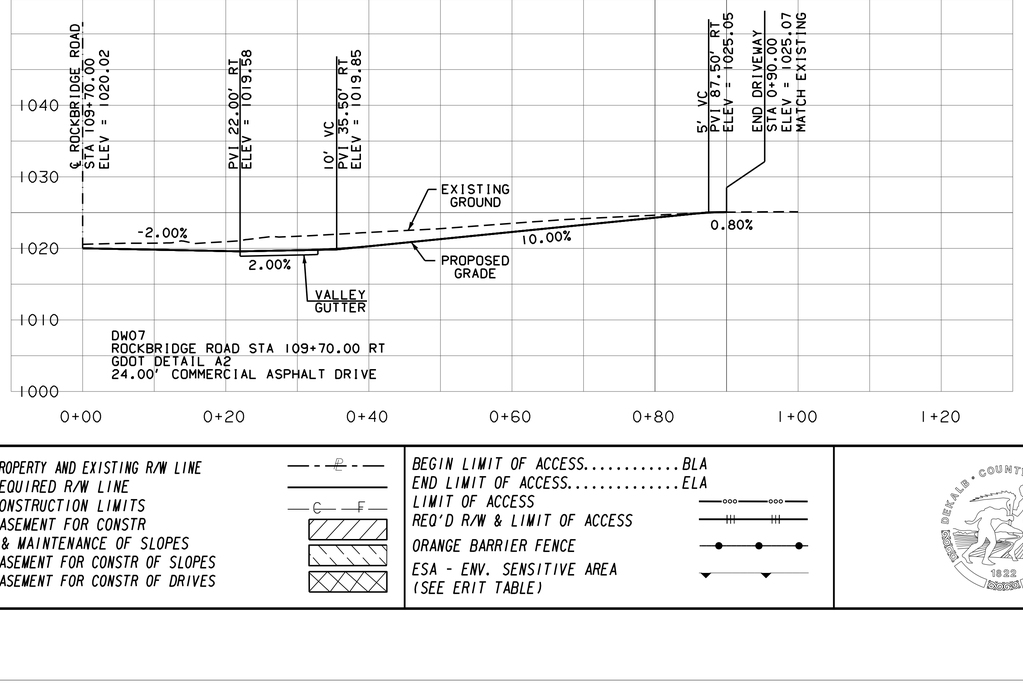
8/28/2015 CONBDR



DW09
ROCKBRIDGE ROAD STA 115+45.36 RT
GDOT DETAIL A2
23.81' COMMERCIAL ASPHALT DRIVE



DW08
ROCKBRIDGE ROAD STA 113+15.00 RT
GDOT DETAIL A2
29.10' COMMERCIAL ASPHALT DRIVE



DW07
ROCKBRIDGE ROAD STA 109+70.00 RT
GDOT DETAIL A2
24.00' COMMERCIAL ASPHALT DRIVE

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
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ORANGE BARRIER FENCE
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REVISION DATES

DRIVEWAY PROFILE

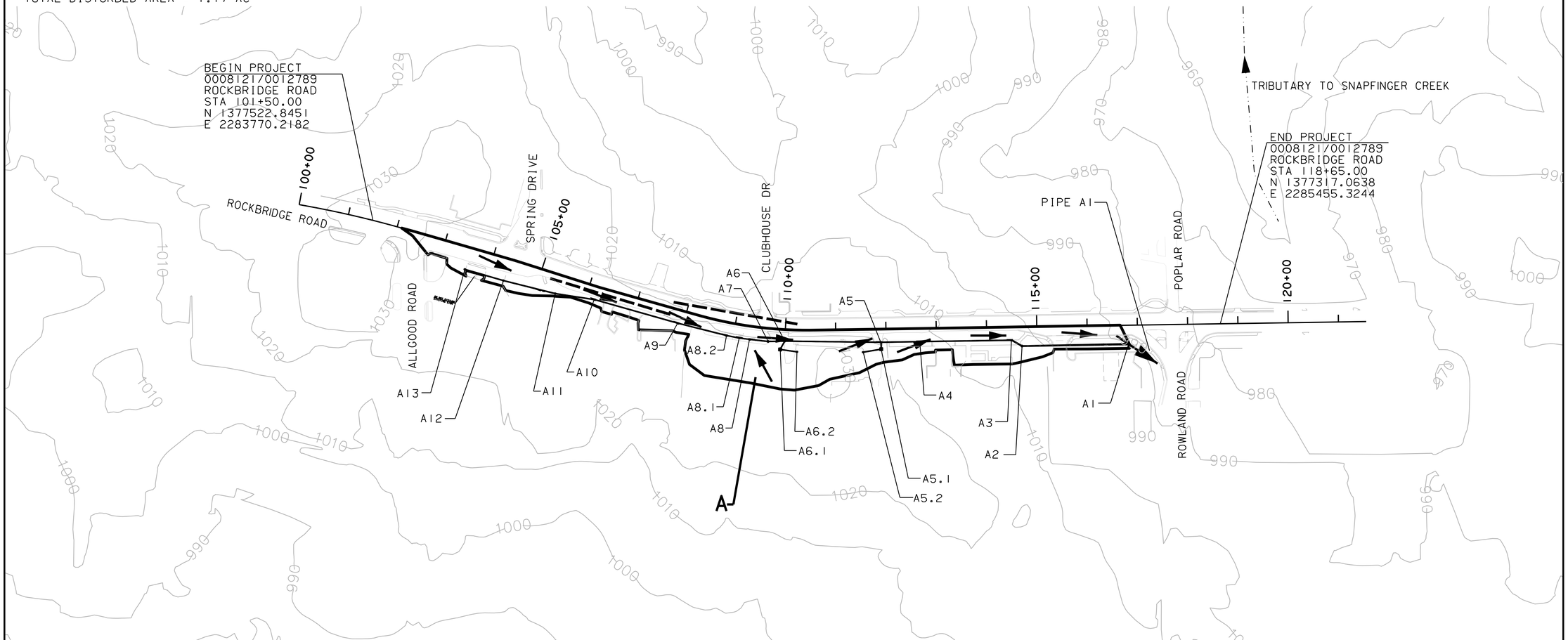
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		17-0002
VERIFIED:		DATE:		

8/28/2015 CONBOR

DRAINAGE AREA DESIGNATION	STATION	OFFSET	DESCRIPTION	SKEW ANGLE	PRE-CONSTRUCTION RUNOFF COEFFICIENT	POST-CONSTRUCTION RUNOFF COEFFICIENT	Q(10) (CFS)	PRE Q(50) (CFS)	PRE Q(100) (CFS)	POST Q(50) (CFS)	POST Q(100) (CFS)	PRE HW(50) (FT)	PRE HW(100) (FT)	POST HW(50) (FT)	POST HW(100) (FT)	PRE V(50) (FPS)	PRE V(100) (FPS)	POST V(50) (FPS)	POST V(100) (FPS)	DRAINAGE AREA (AC)	DISTURBED AREA (AC)	RECEIVING WATERS
A13	103+53.04	44.88' RT	1019A	N/A	N/A	0.95	0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.007	0.004	TRIB TO SNAPFINGER CREEK
A12	104+32.98	44.88' RT	1019A	N/A	N/A	0.95	0.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.012	0.007	TRIB TO SNAPFINGER CREEK
A11	105+40.00	38.00' RT	1019A	N/A	N/A	0.41	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.047	0.072	TRIB TO SNAPFINGER CREEK
A10	106+18.12	26.17' RT	1033D	N/A	N/A	0.94	1.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.293	0.038	TRIB TO SNAPFINGER CREEK
A9	107+90.00	26.17' RT	1033D	N/A	N/A	0.83	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.174	0.165	TRIB TO SNAPFINGER CREEK
A8.2	108+87.00	26.17' RT	1033D	N/A	N/A	0.83	0.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.120	0.120	TRIB TO SNAPFINGER CREEK
A8.1	109+12.00	26.67' RT	1034D	N/A	N/A	0.75	1.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.273	0.055	TRIB TO SNAPFINGER CREEK
A8	109+32.00	26.17' RT	1033D	N/A	N/A	0.80	0.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.131	0.072	TRIB TO SNAPFINGER CREEK
A6.2	110+24.08	43.28' RT	1019A	N/A	N/A	0.90	0.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.128	0.000	TRIB TO SNAPFINGER CREEK
A6.1	109+92.00	40.00' RT	9031S	N/A	N/A	0.30	0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.035	0.035	TRIB TO SNAPFINGER CREEK
A6	110+00.00	23.00' RT	1019A	N/A	N/A	0.95	0.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.016	0.016	TRIB TO SNAPFINGER CREEK
A5.2	111+53.81	45.42' RT	1019A	N/A	N/A	0.90	0.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.076	0.000	TRIB TO SNAPFINGER CREEK
A5.1	111+90.00	26.17' RT	9031S	N/A	N/A	0.64	0.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.100	0.100	TRIB TO SNAPFINGER CREEK
A5	111+90.00	26.17' RT	1033D	N/A	N/A	0.95	0.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.136	0.113	TRIB TO SNAPFINGER CREEK
A4	112+70.00	26.17' RT	1033D	N/A	N/A	0.95	0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.057	0.057	TRIB TO SNAPFINGER CREEK
A3	114+50.00	26.17' RT	1033D	N/A	N/A	0.66	1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.250	0.128	TRIB TO SNAPFINGER CREEK
A1	116+83.50	38.17' RT	1033D	N/A	N/A	0.87	1.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.266	0.184	TRIB TO SNAPFINGER CREEK
PIPE A1	116+83.50	N/A	EX 24" RCP	N/A	0.75	0.81	N/A	9.32	10.15	13.32	14.52	0.68	0.71	0.82	0.86	9.99	10.23	11.01	11.27	2.120	1.165	TRIB TO SNAPFINGER CREEK

TOTAL PROJECT SIZE = 3.28 AC
TOTAL DISTURBED AREA = 1.17 AC



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

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

SCALE IN FEET
0 100 200 400

REVISION DATES

DRAINAGE AREA MAP

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

		DATE:		DRAWING No.
CHECKED:		DATE:		21-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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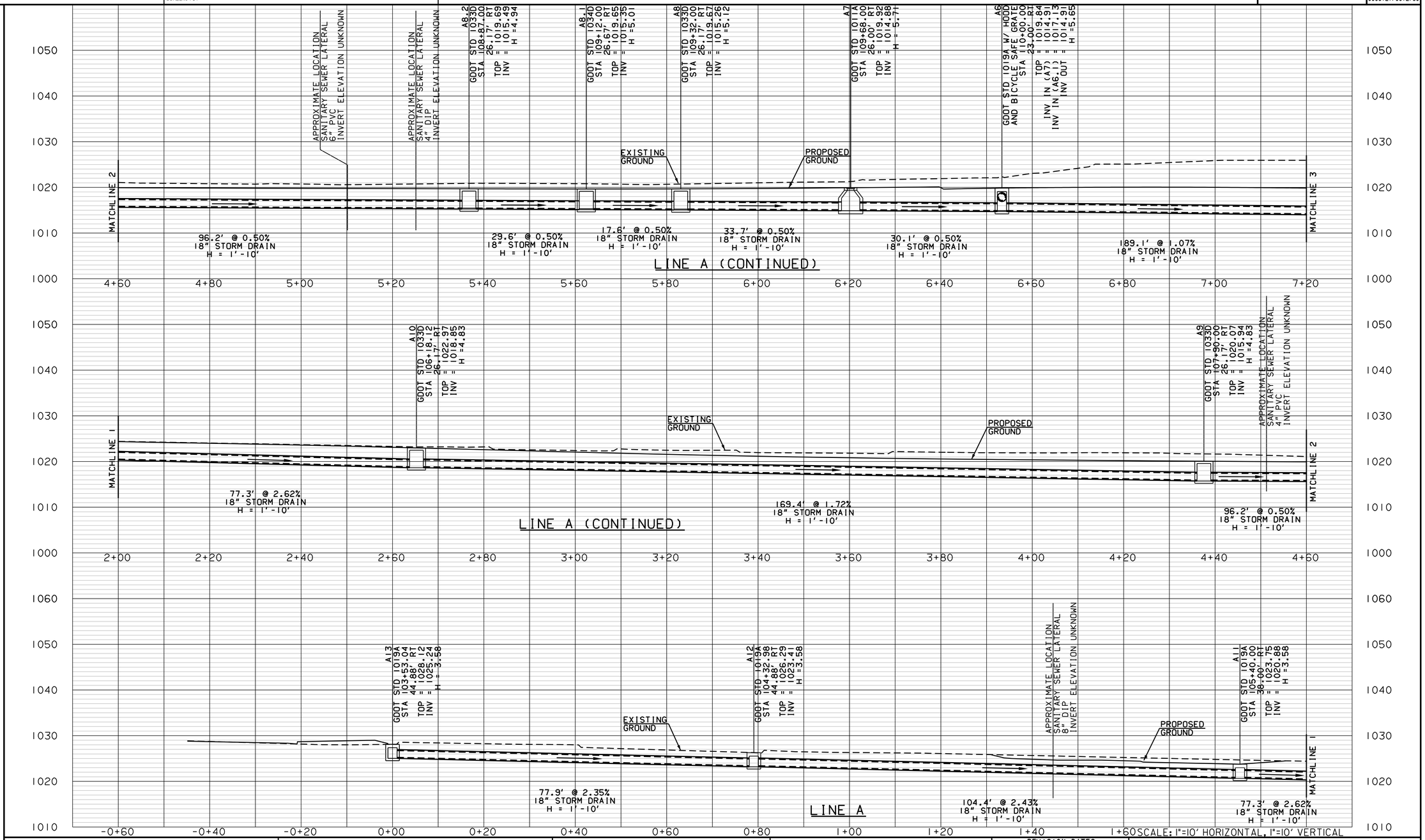

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

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DRAINAGE PROFILES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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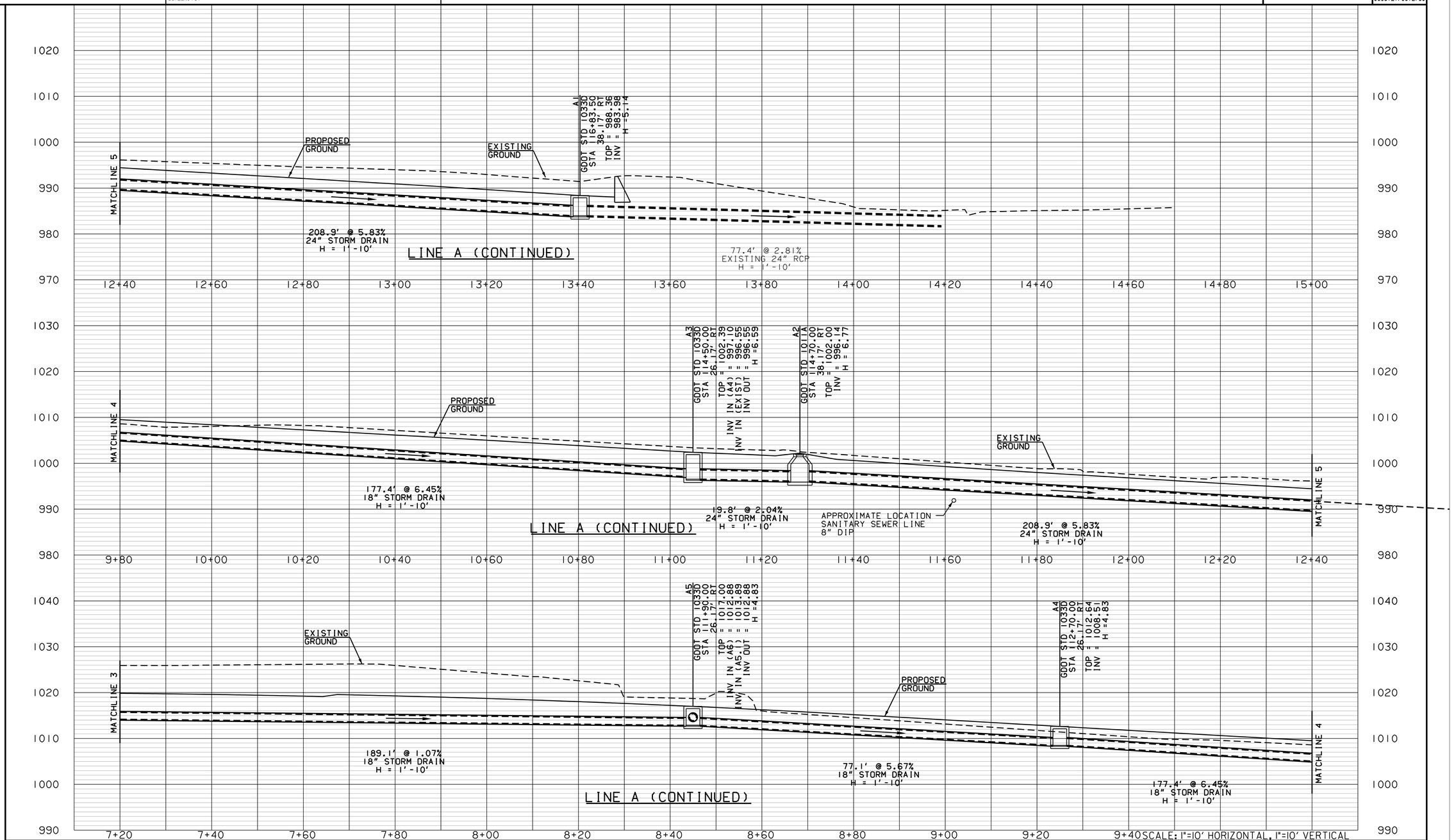

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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

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

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REVISION DATES

DRAINAGE PROFILES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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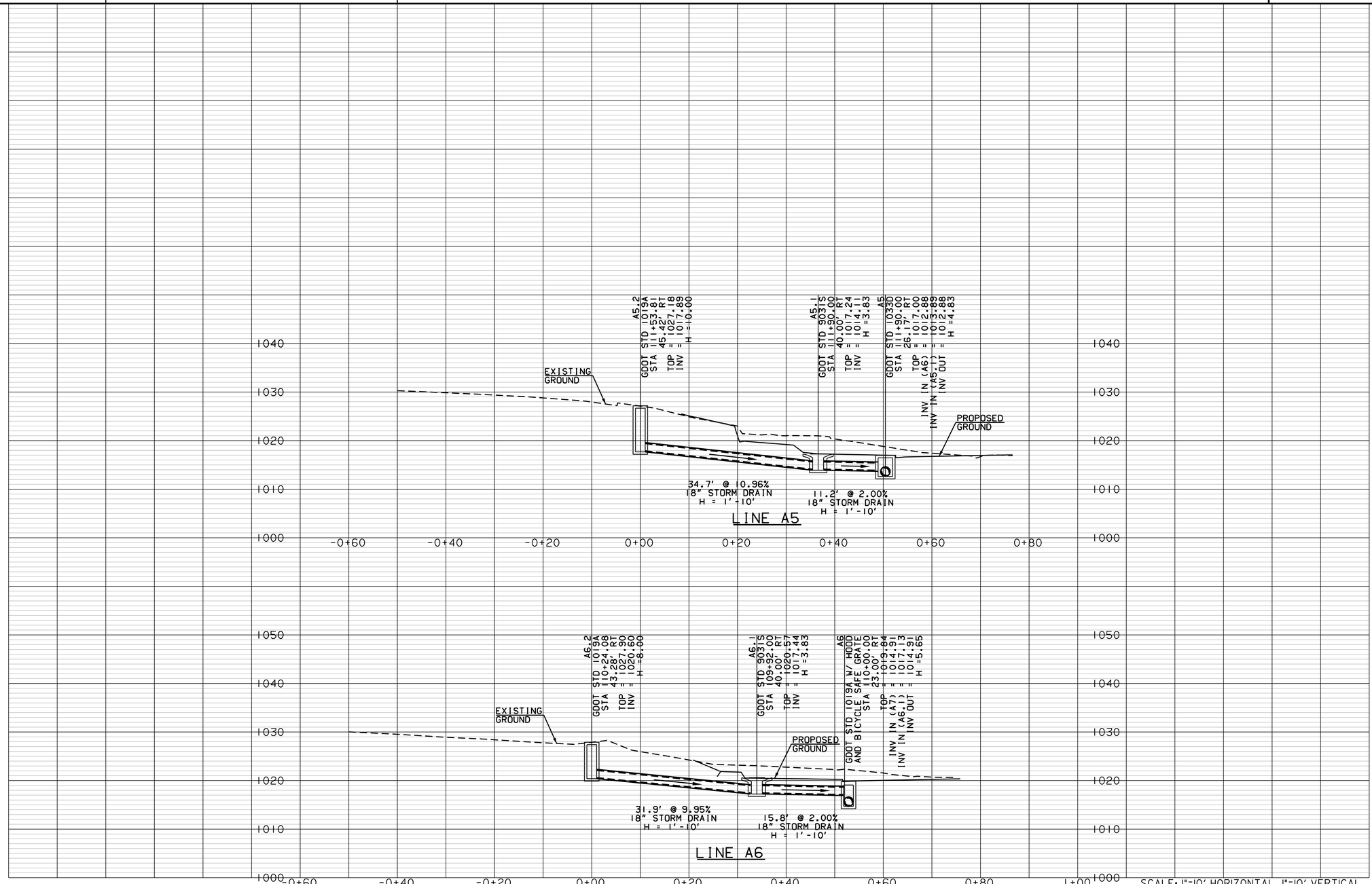

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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

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

REVISION DATES

DRAINAGE PROFILES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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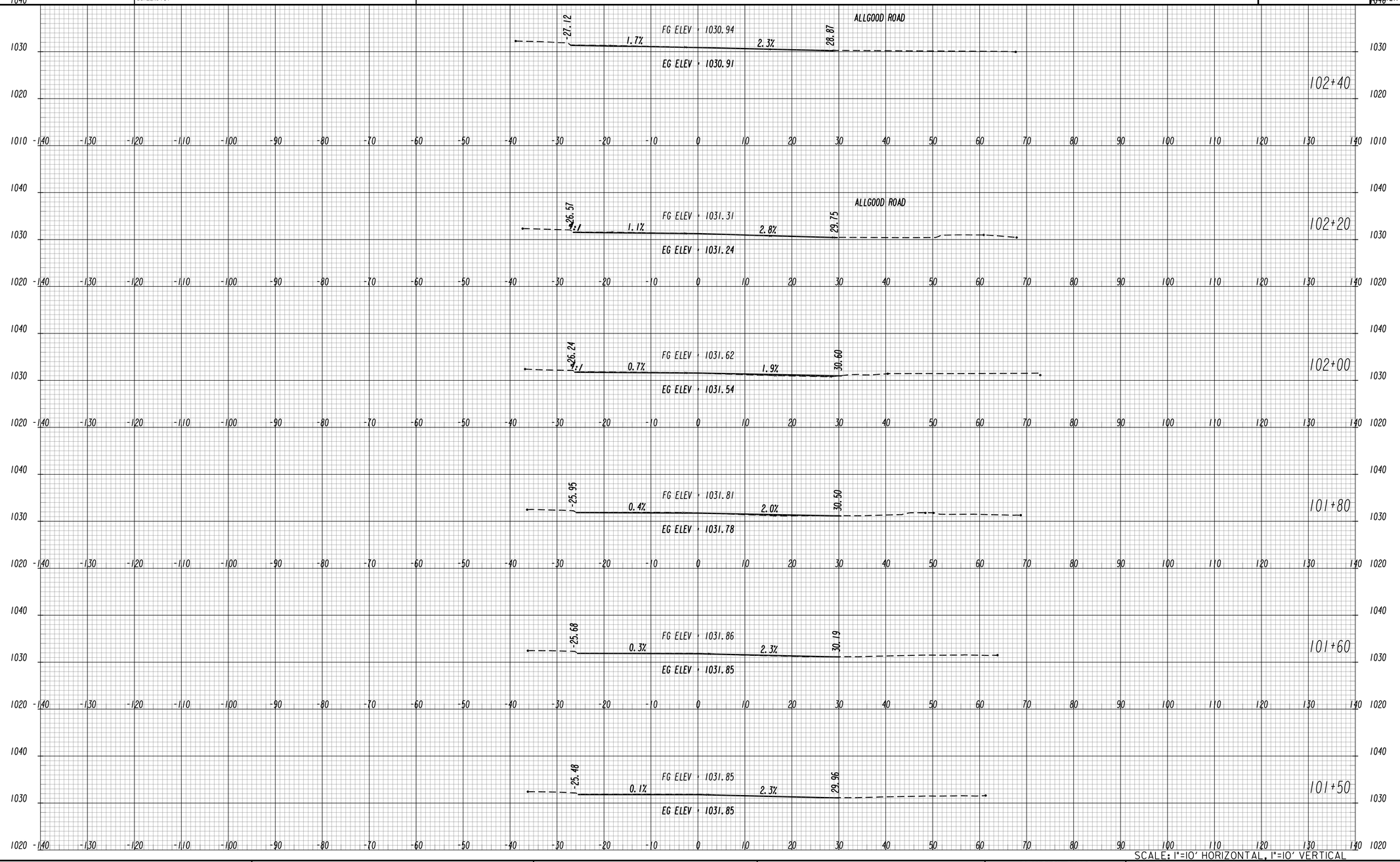

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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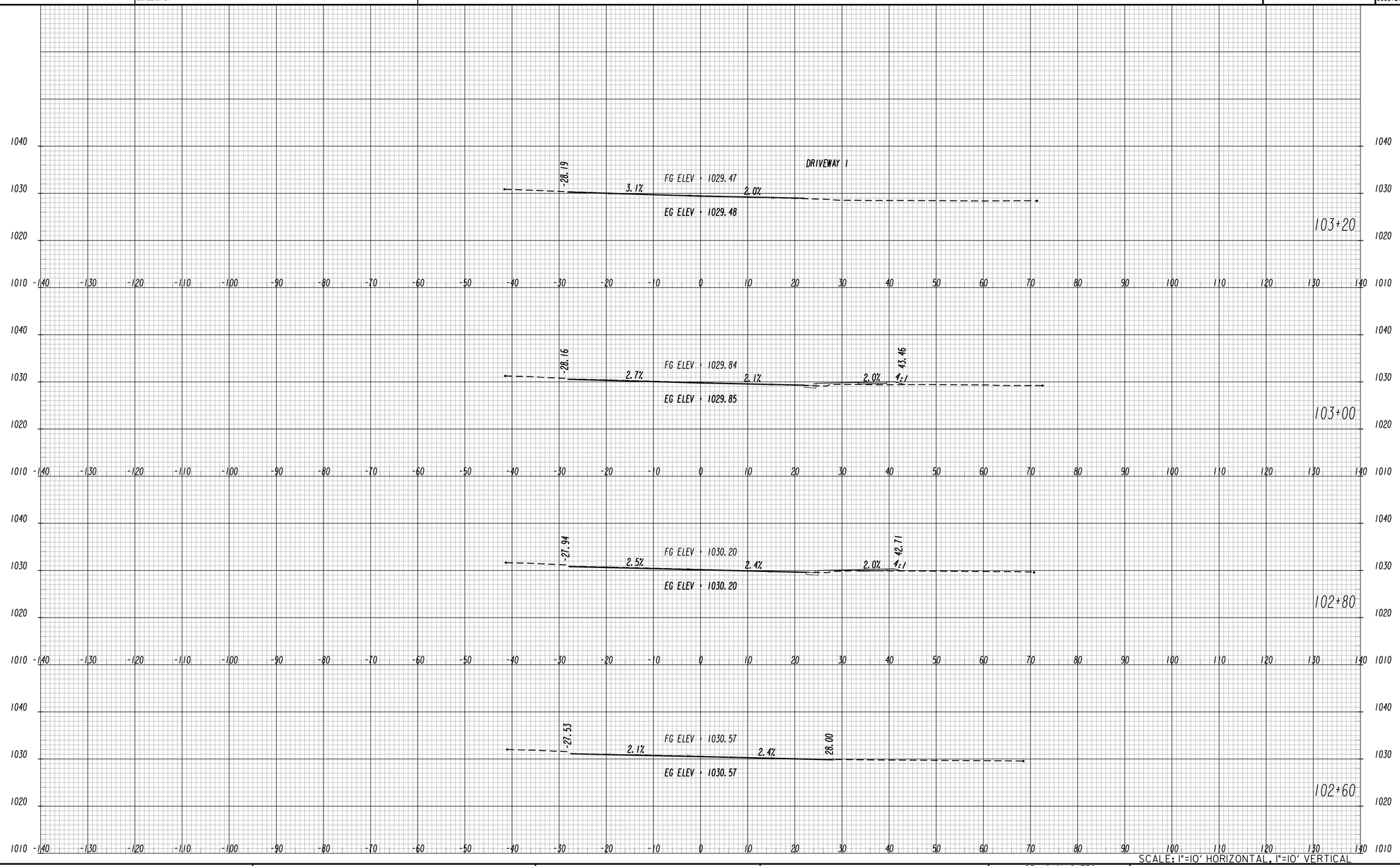

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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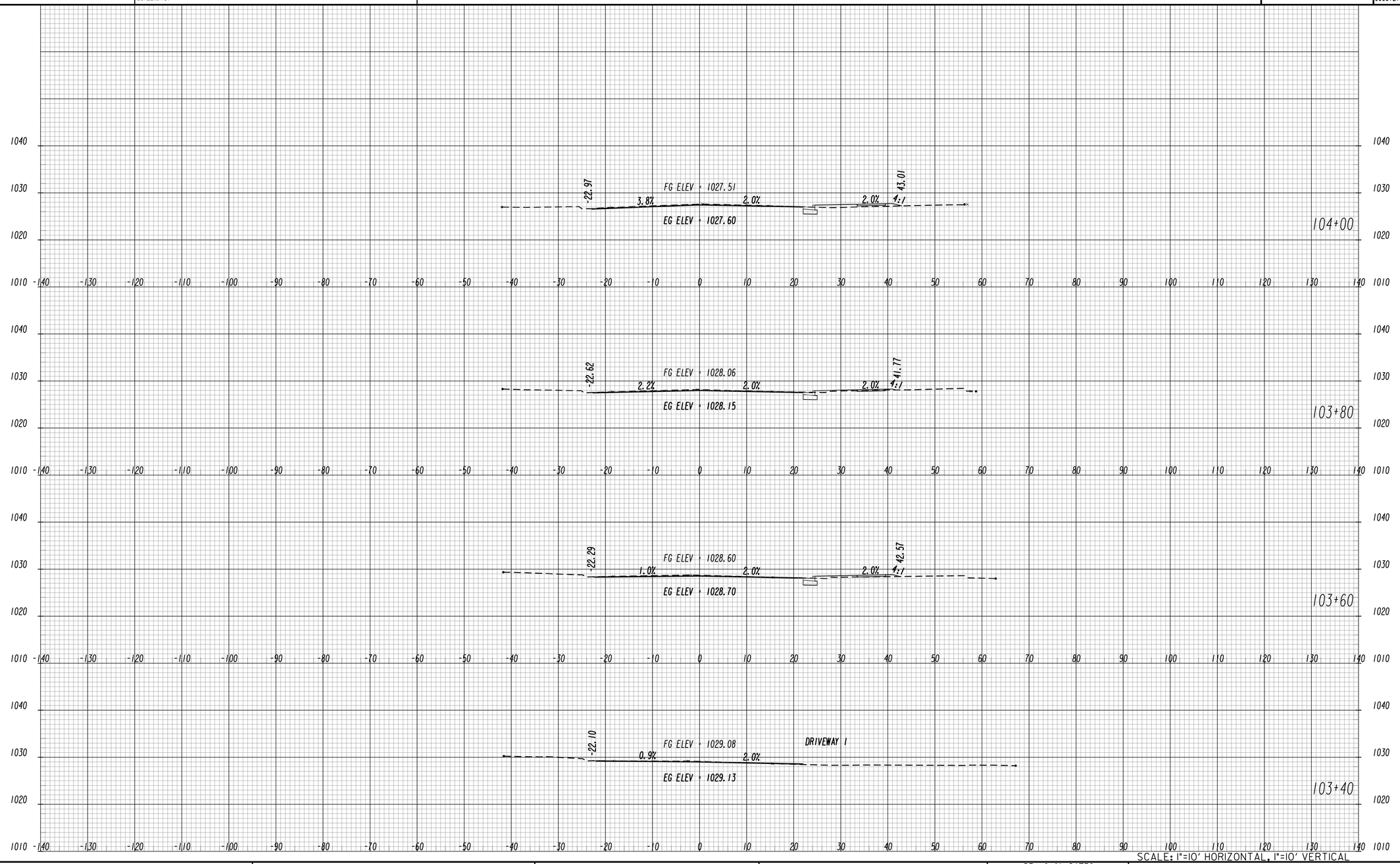

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES		

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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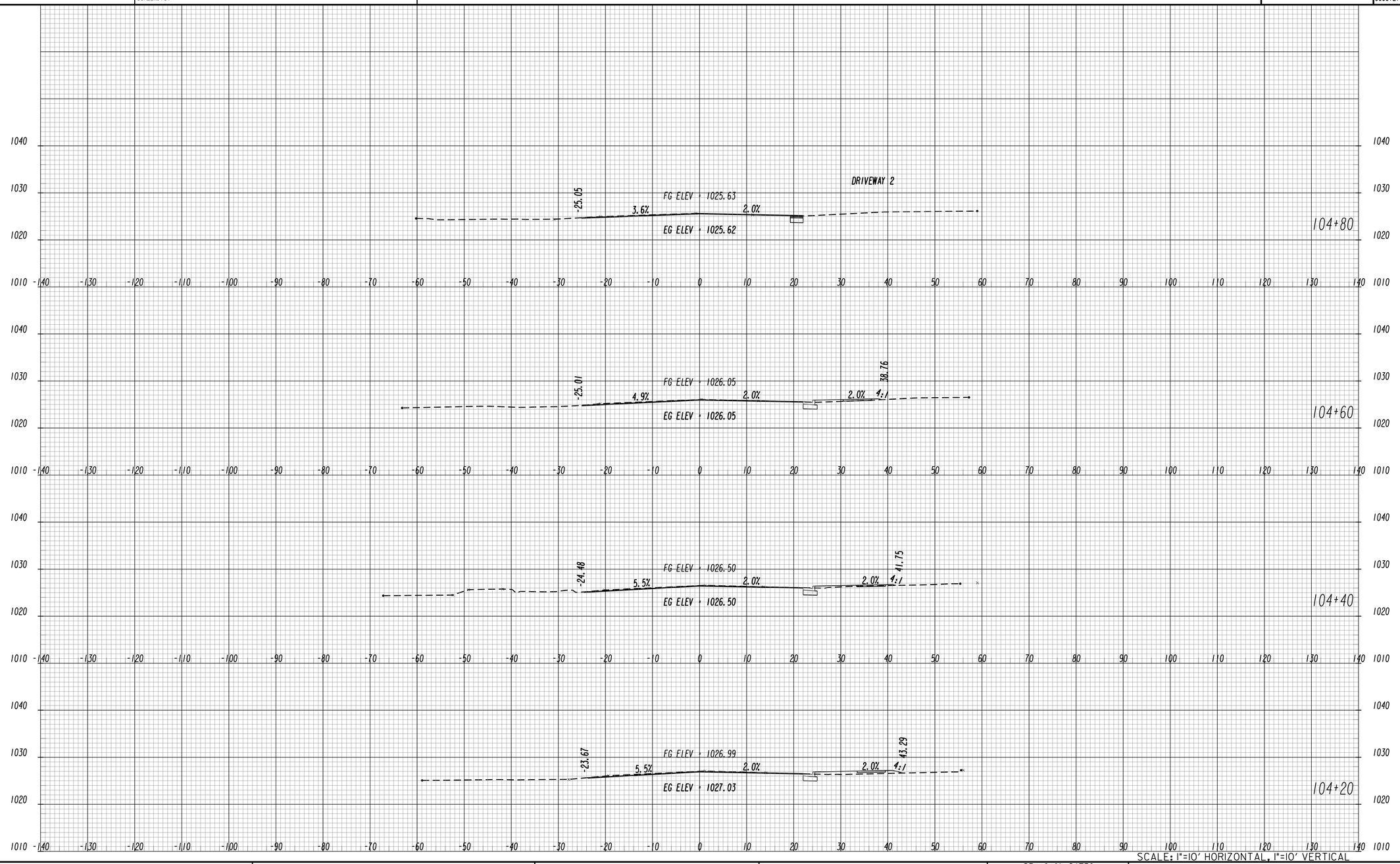

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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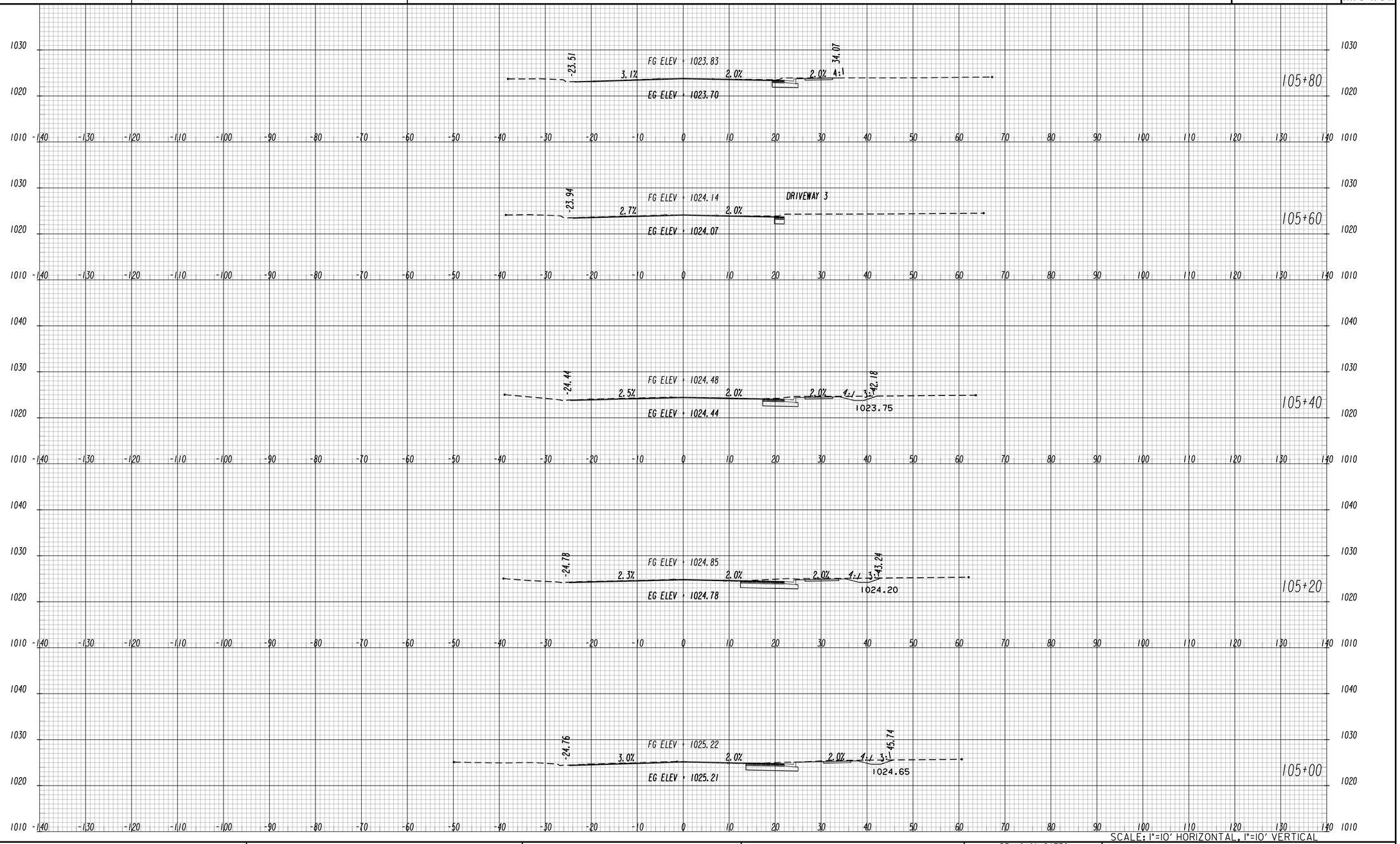

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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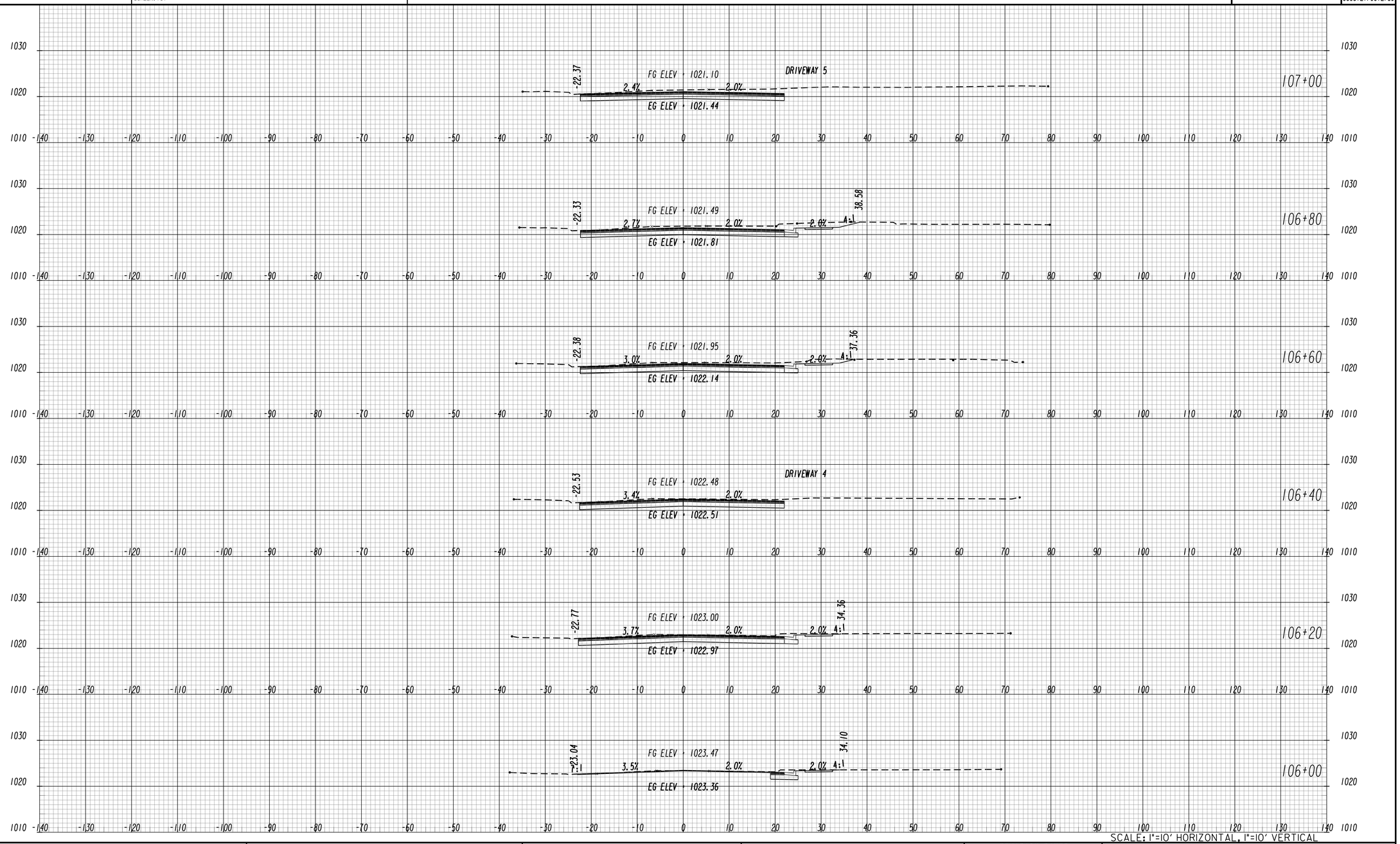

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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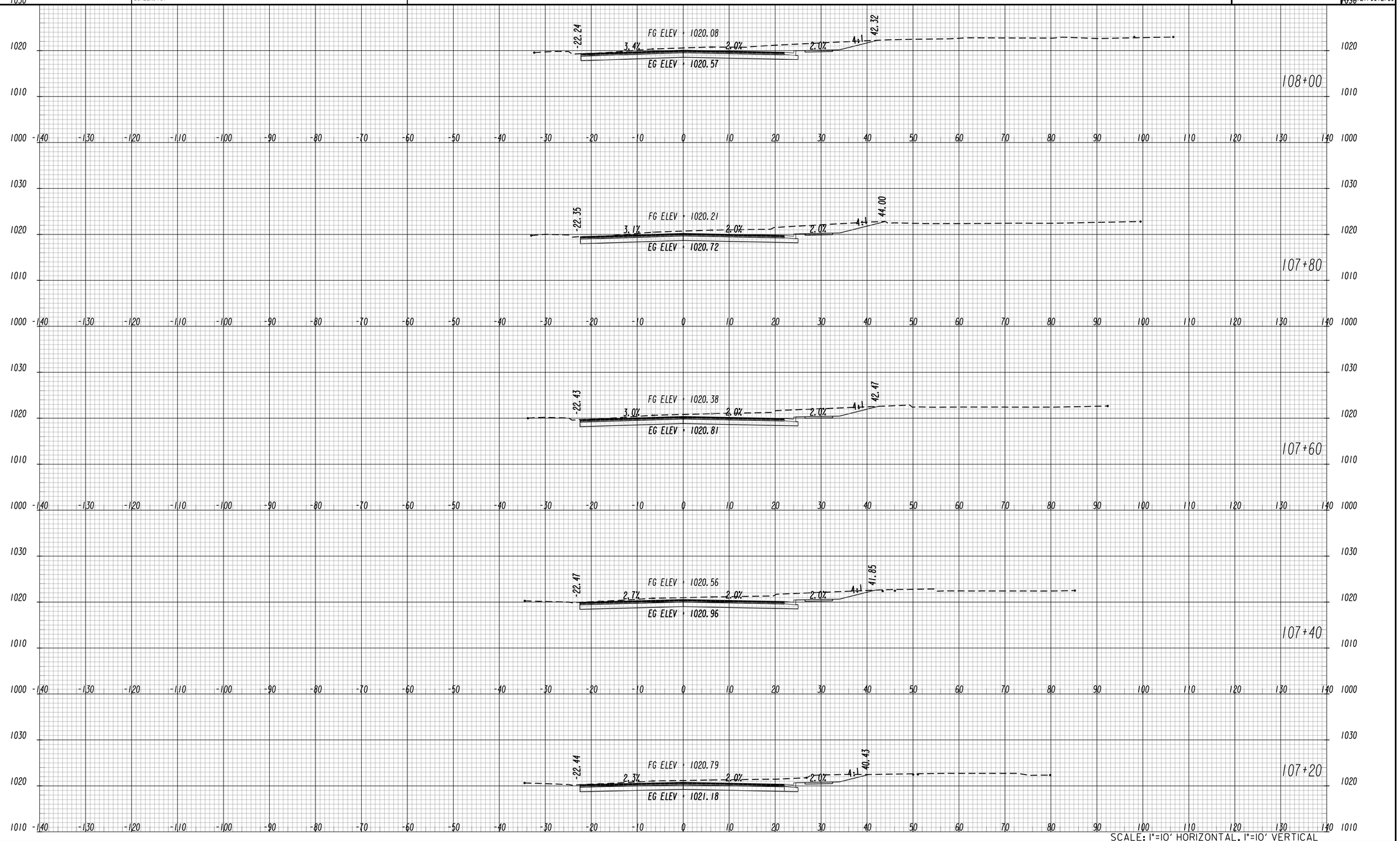

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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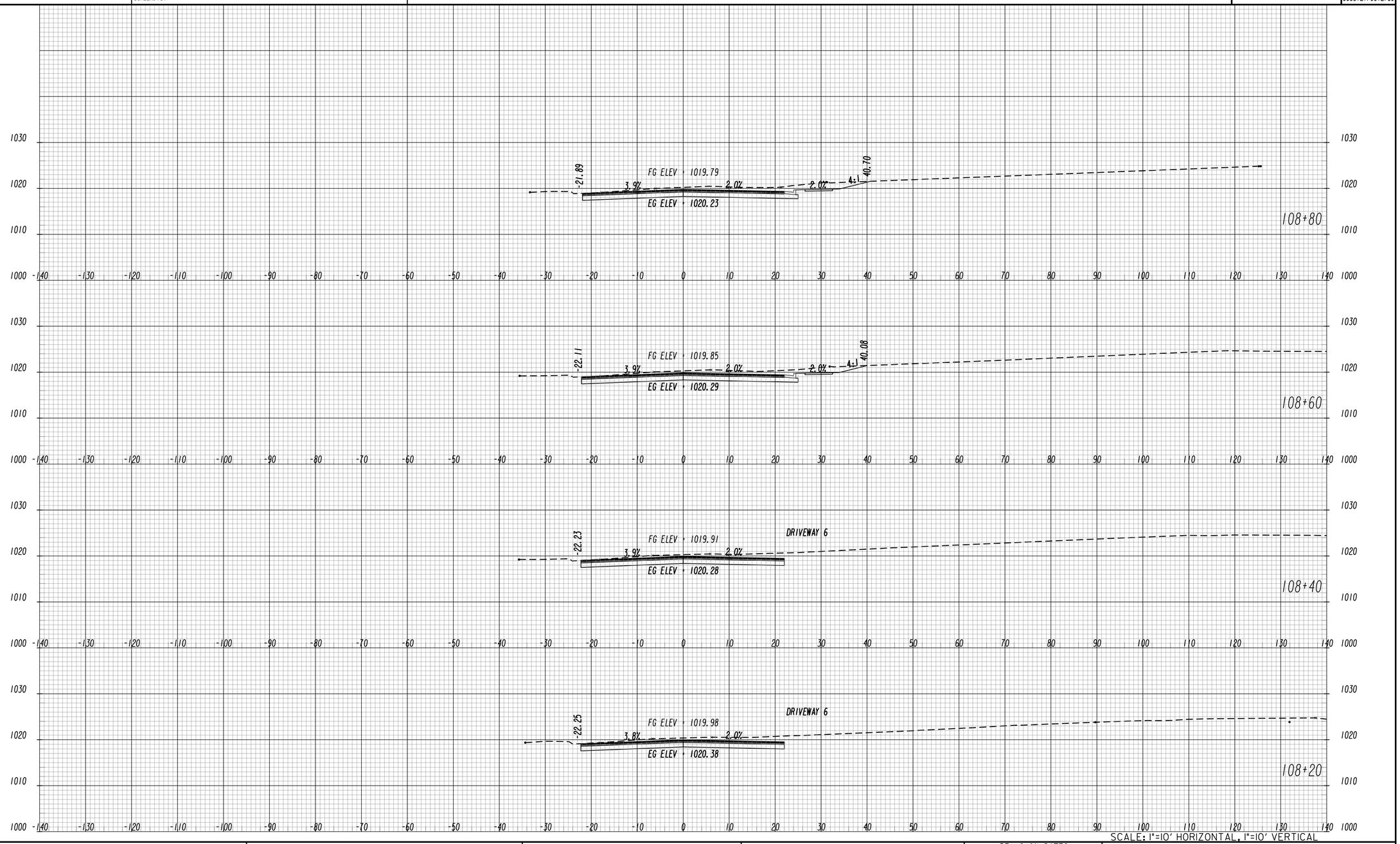

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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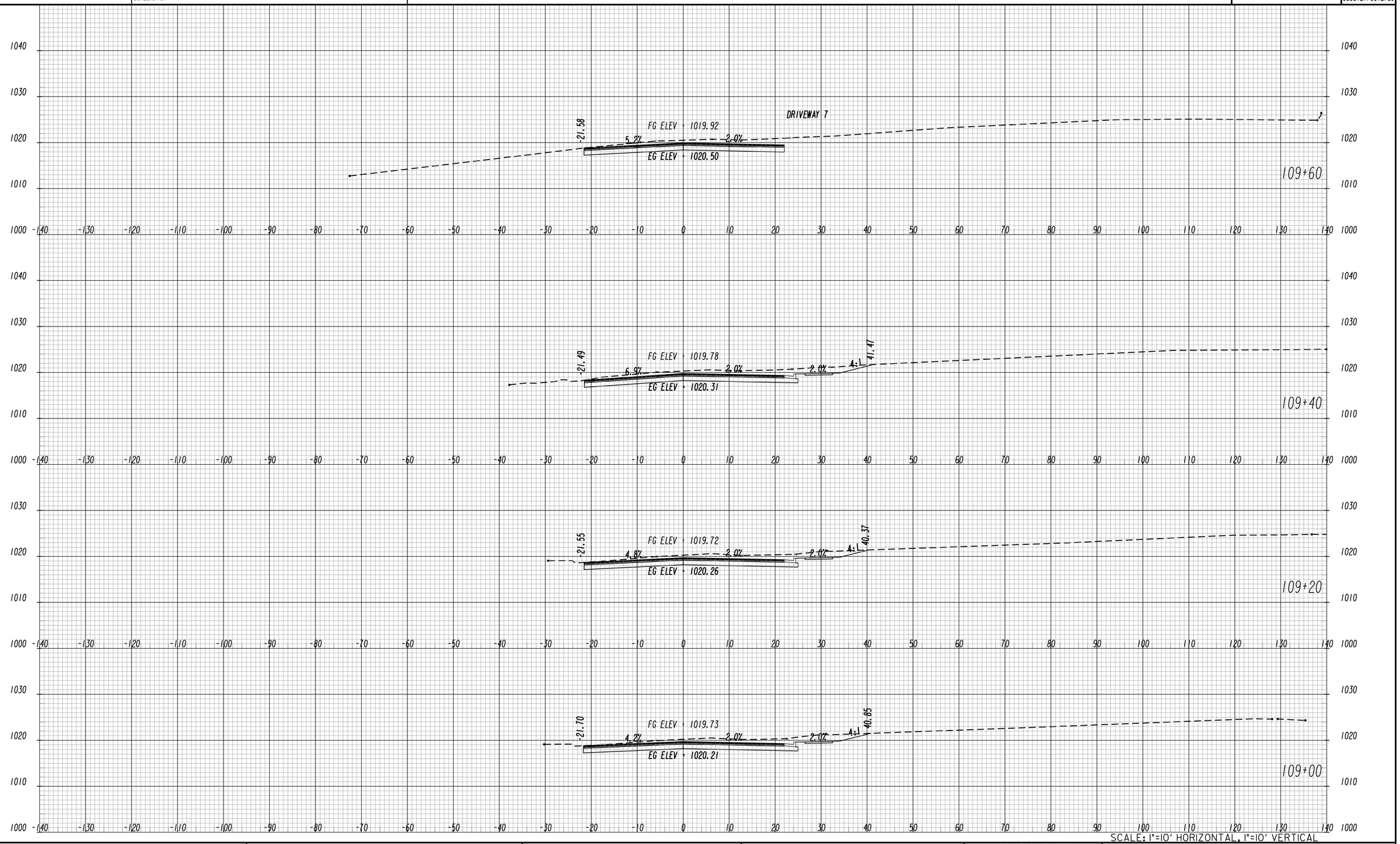

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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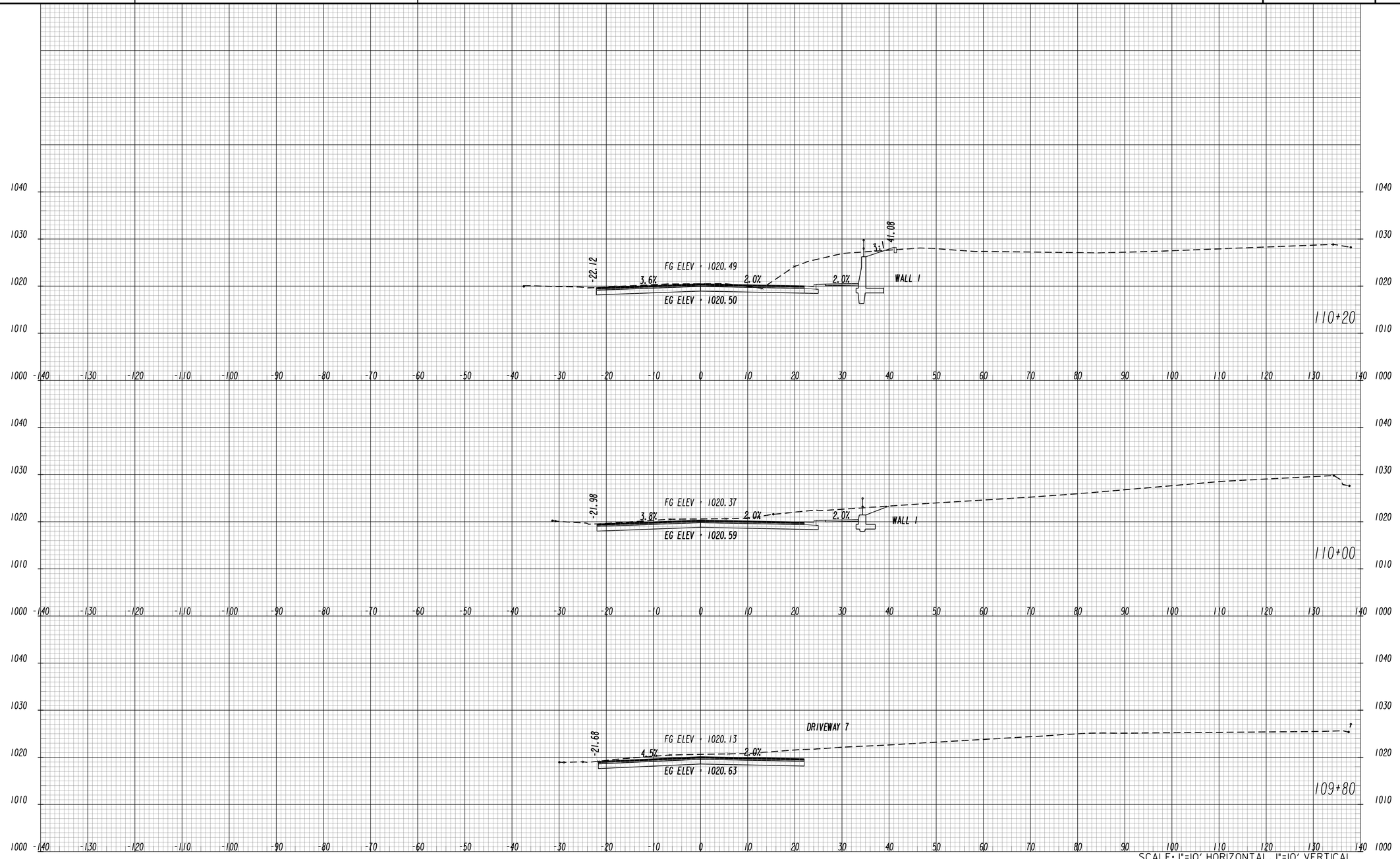

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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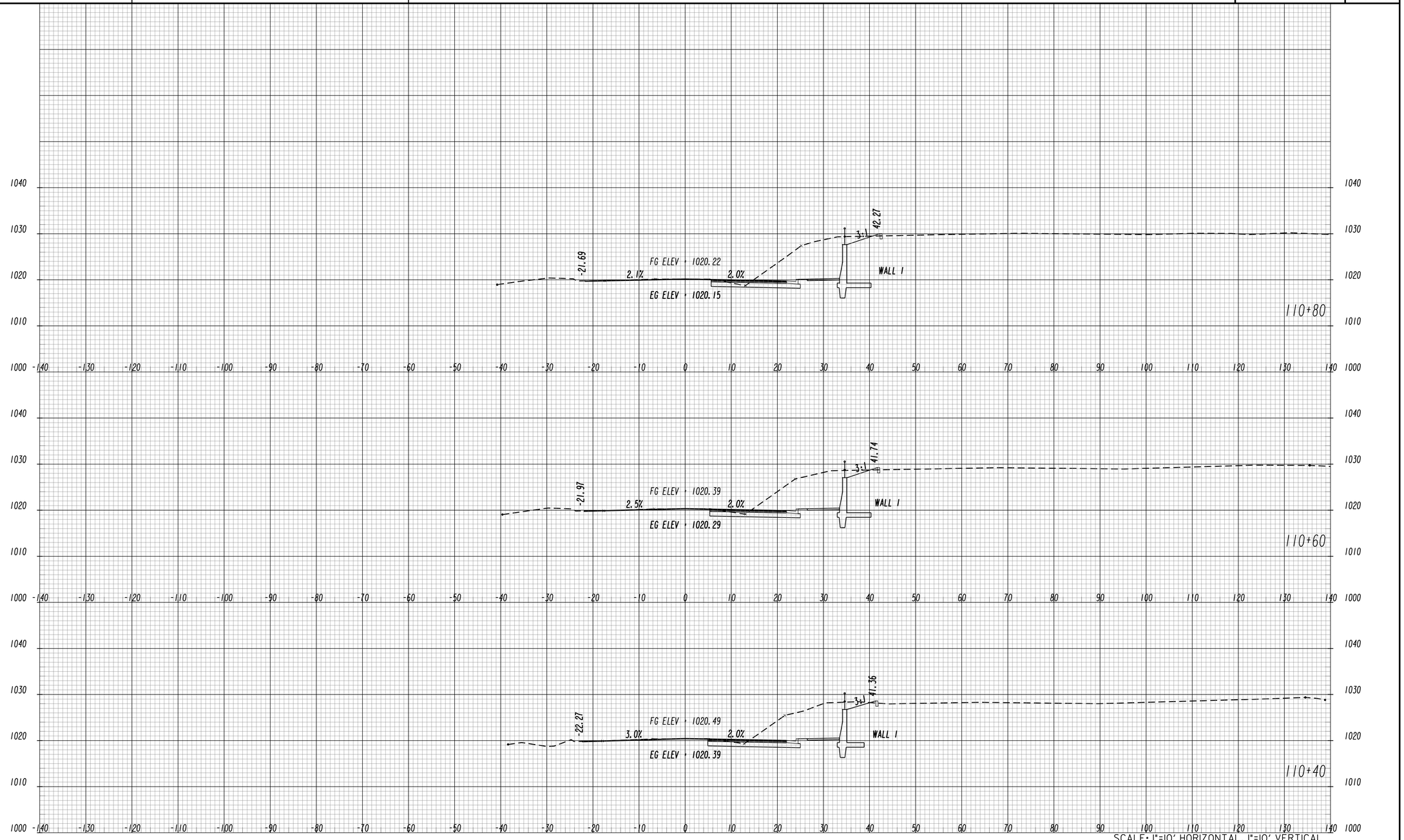

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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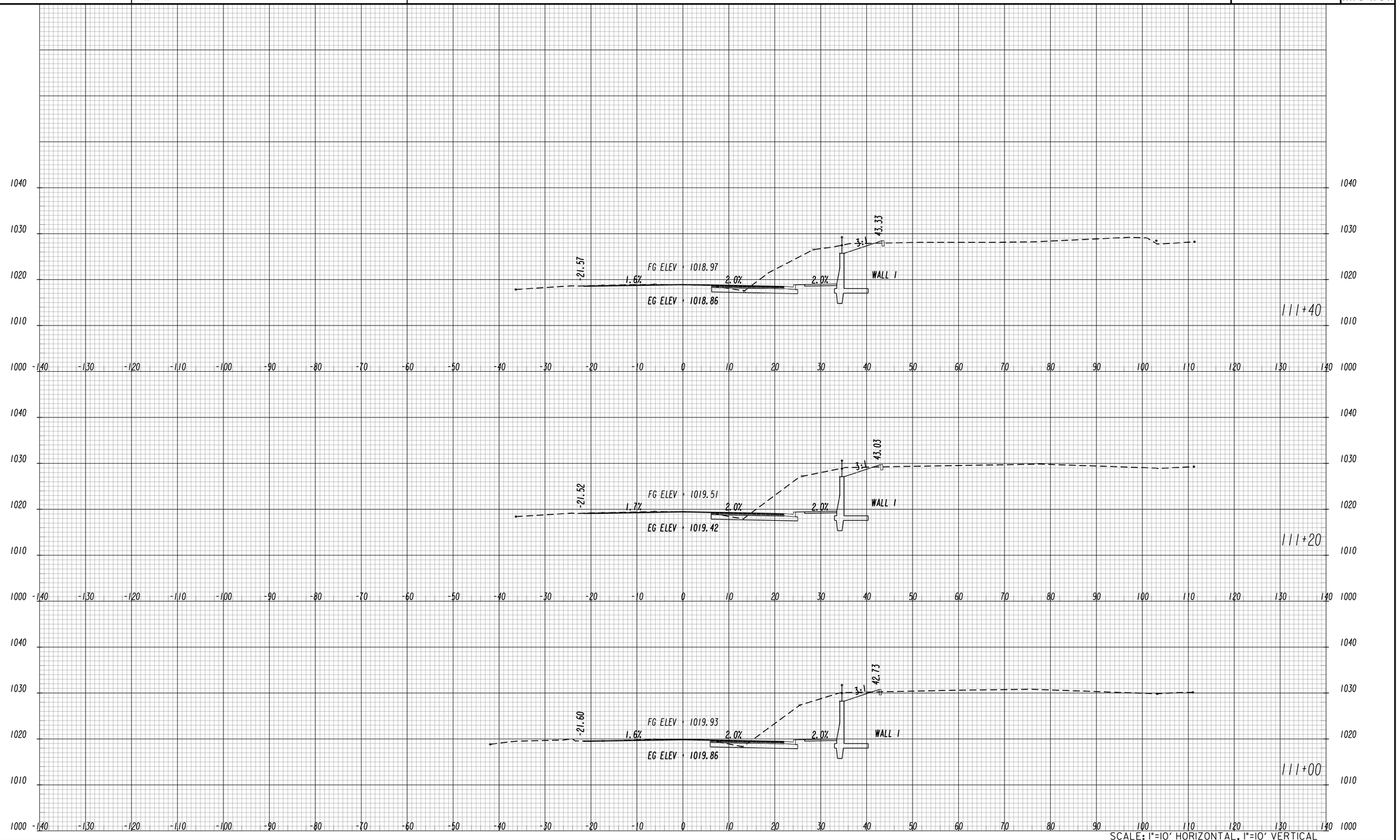

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

8/28/2015 CONBOR

REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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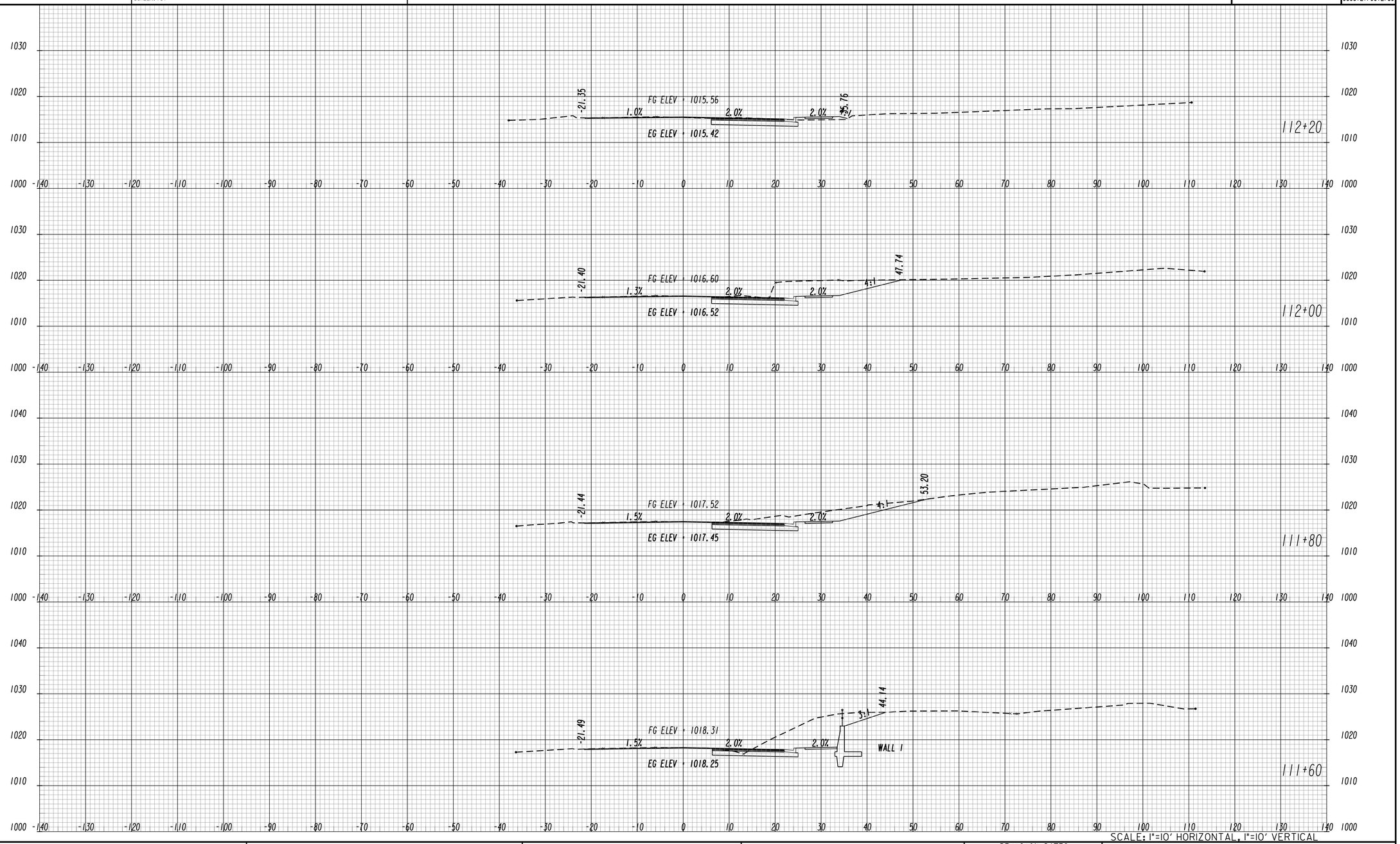

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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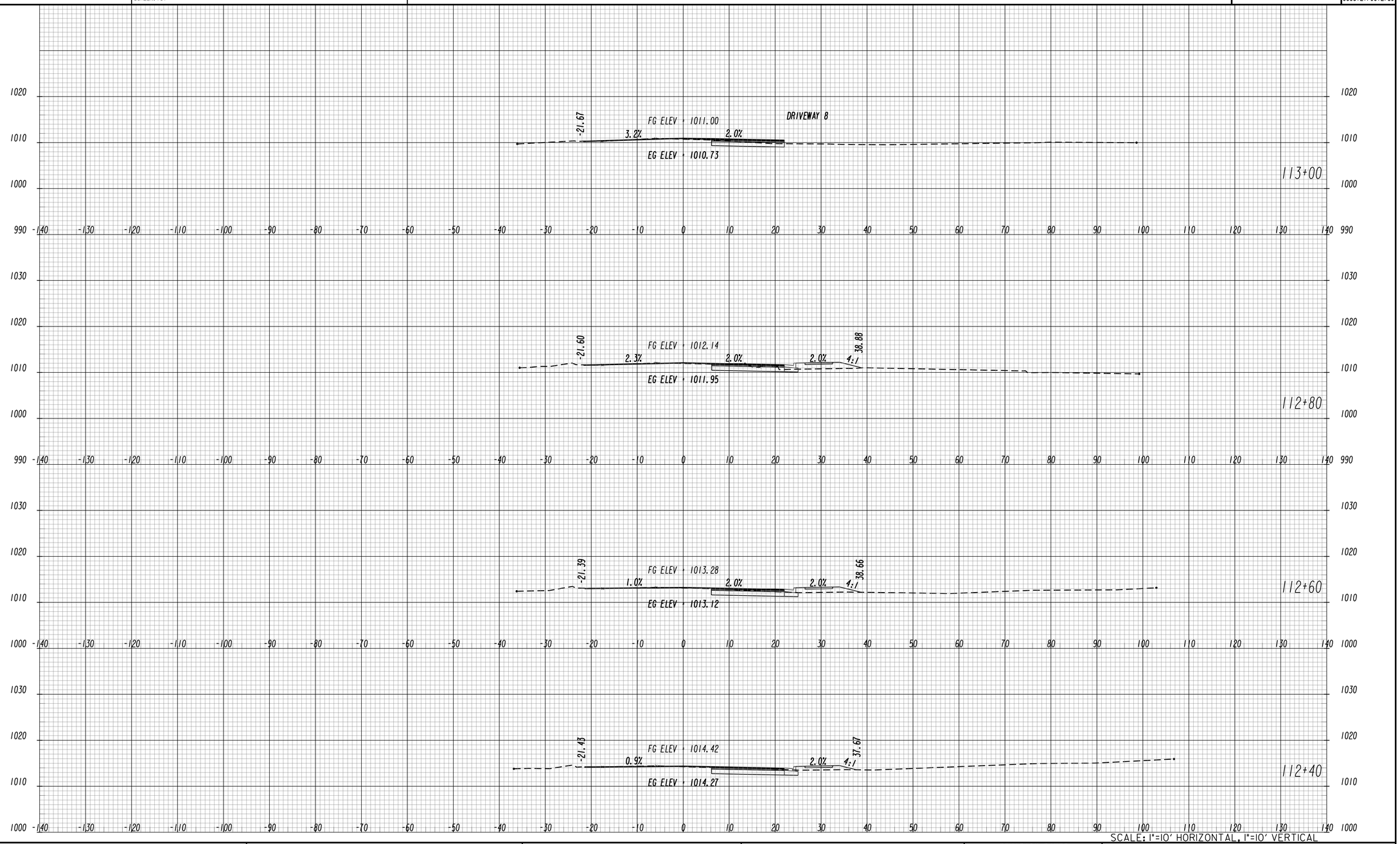

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES		

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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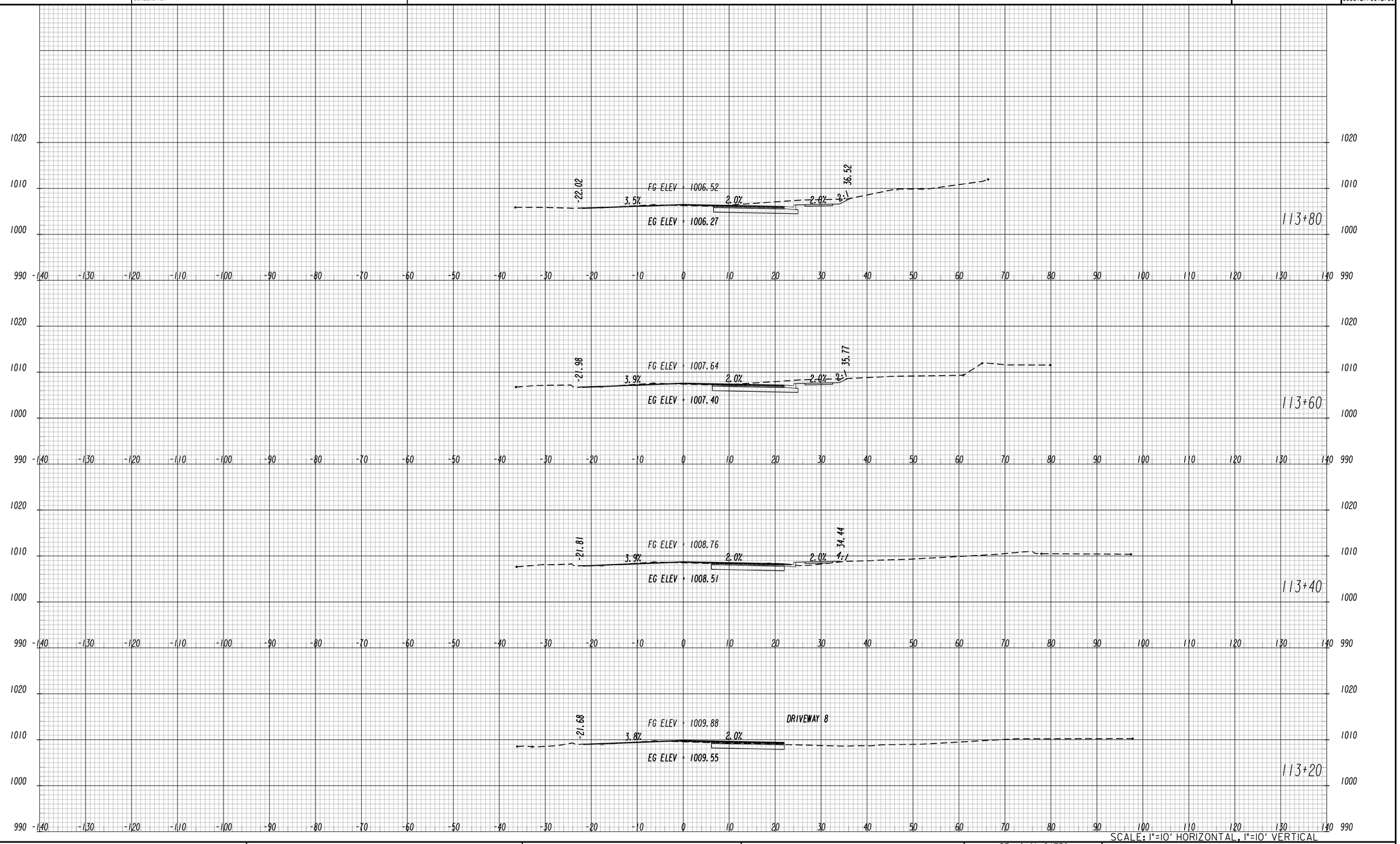

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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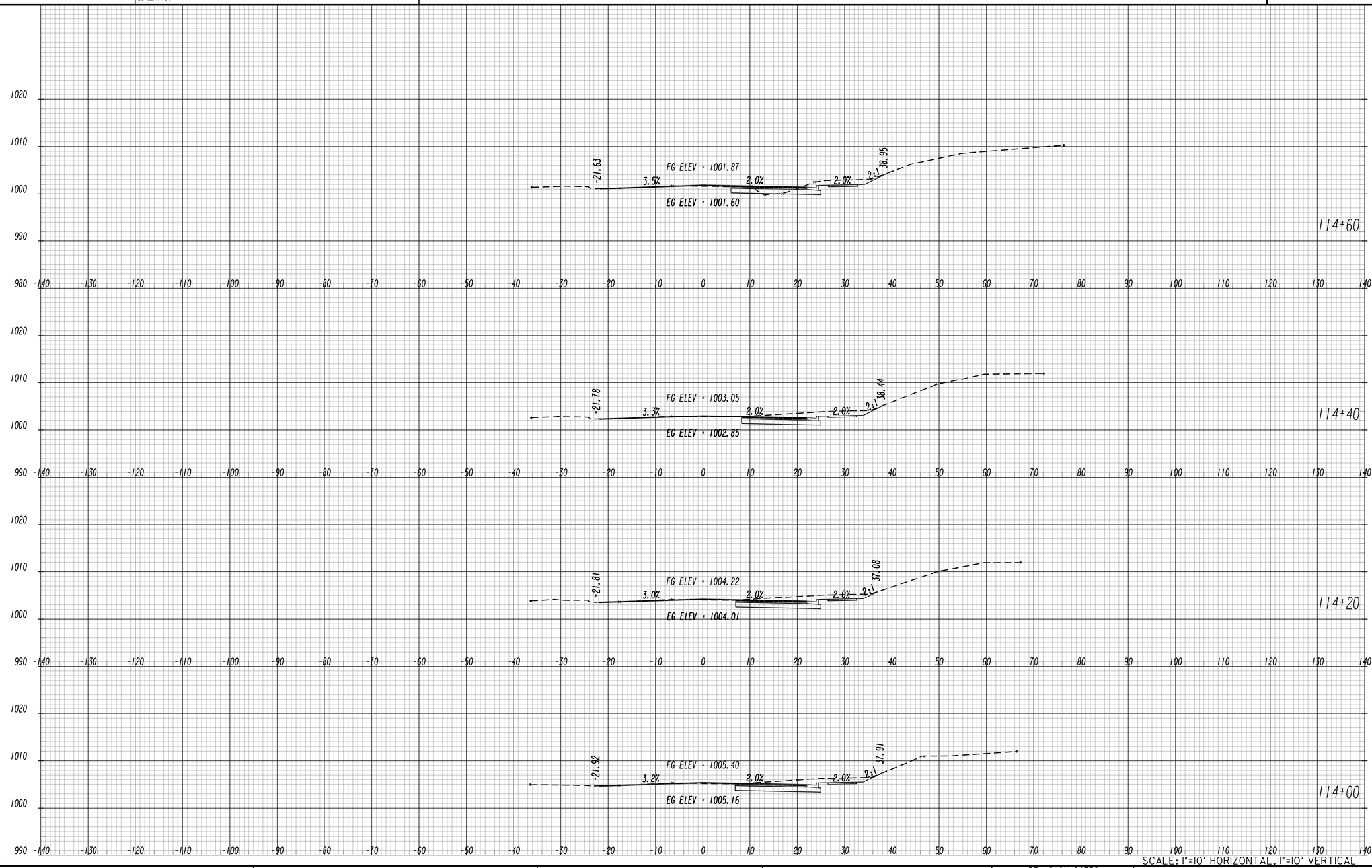

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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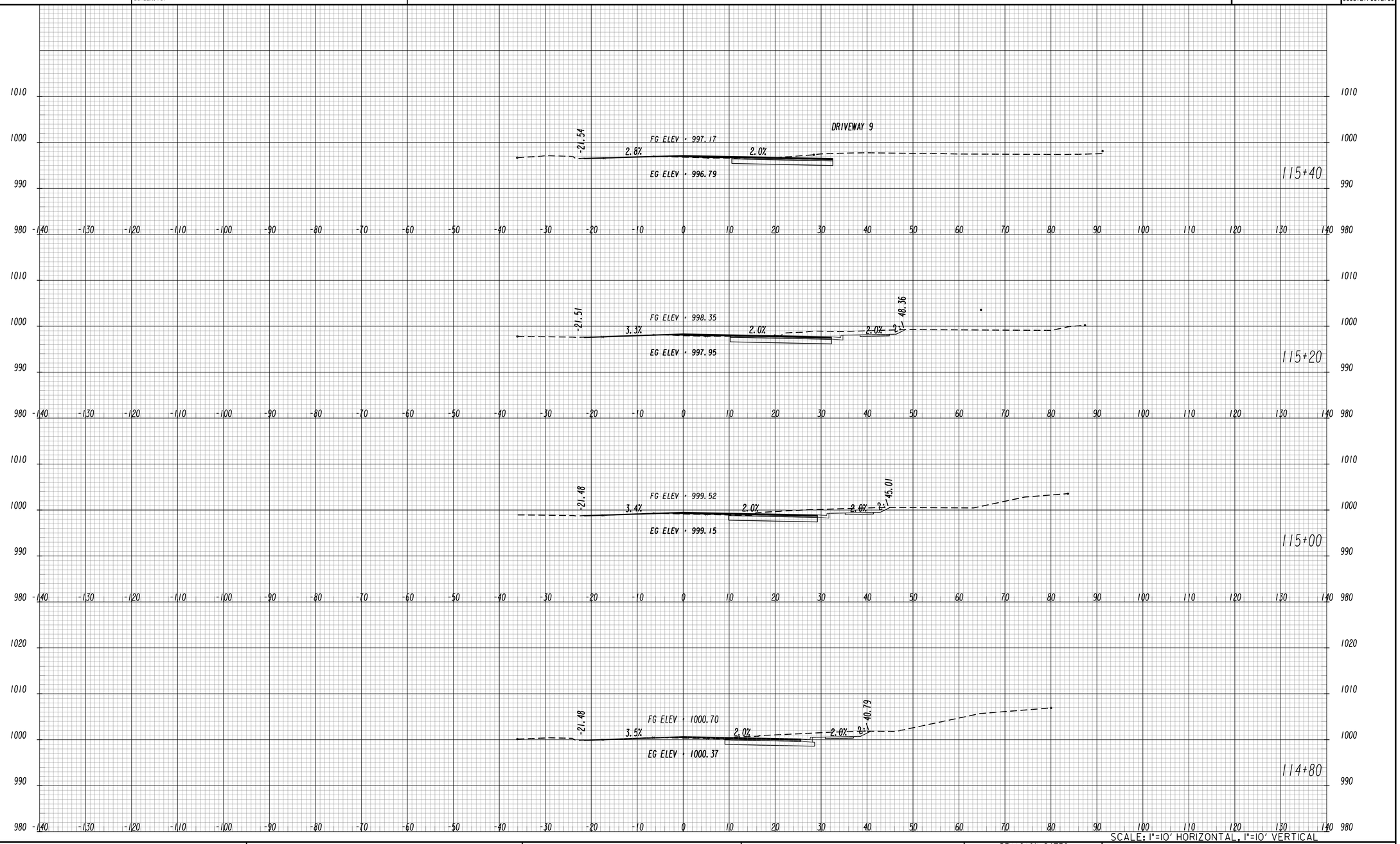

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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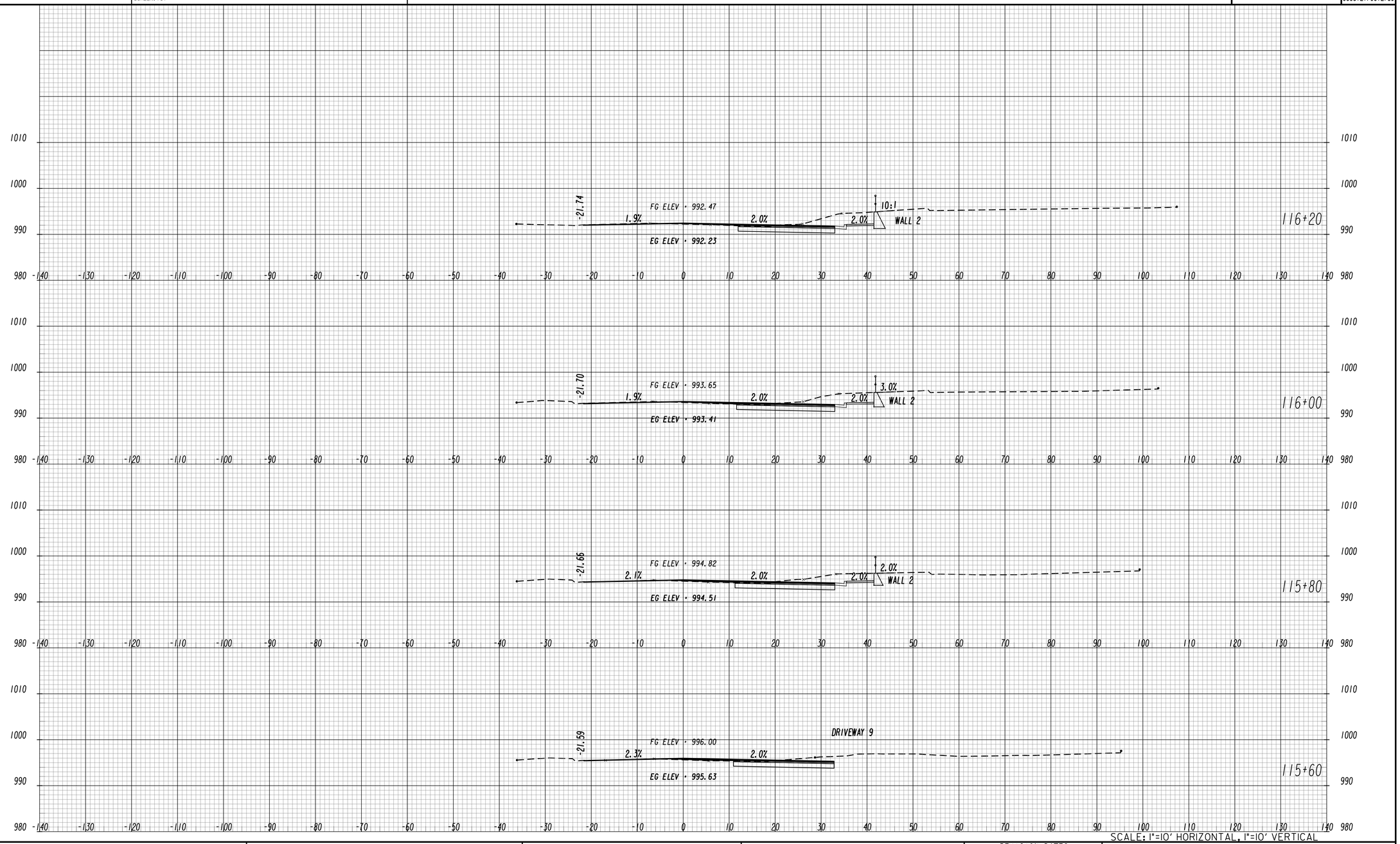

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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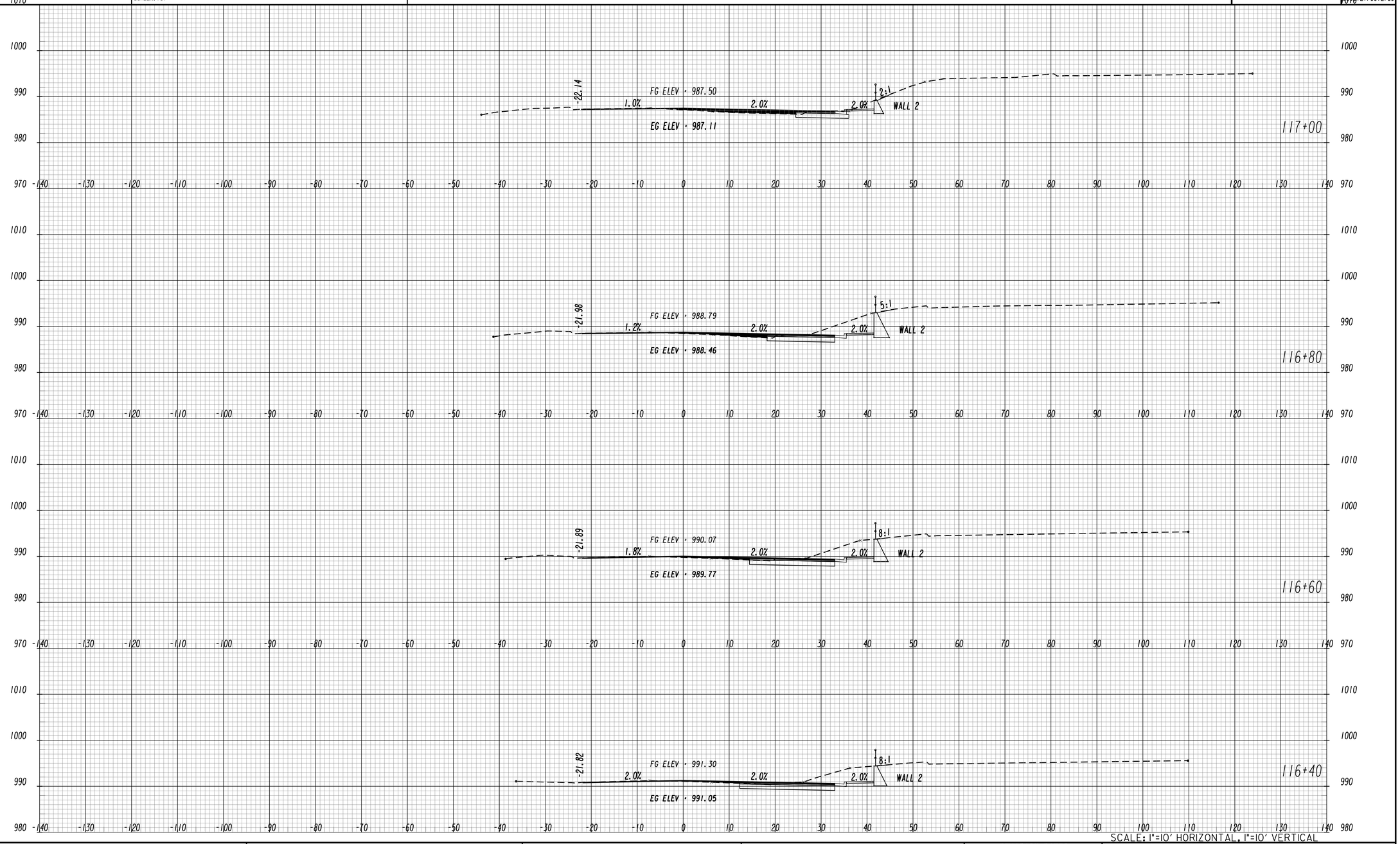

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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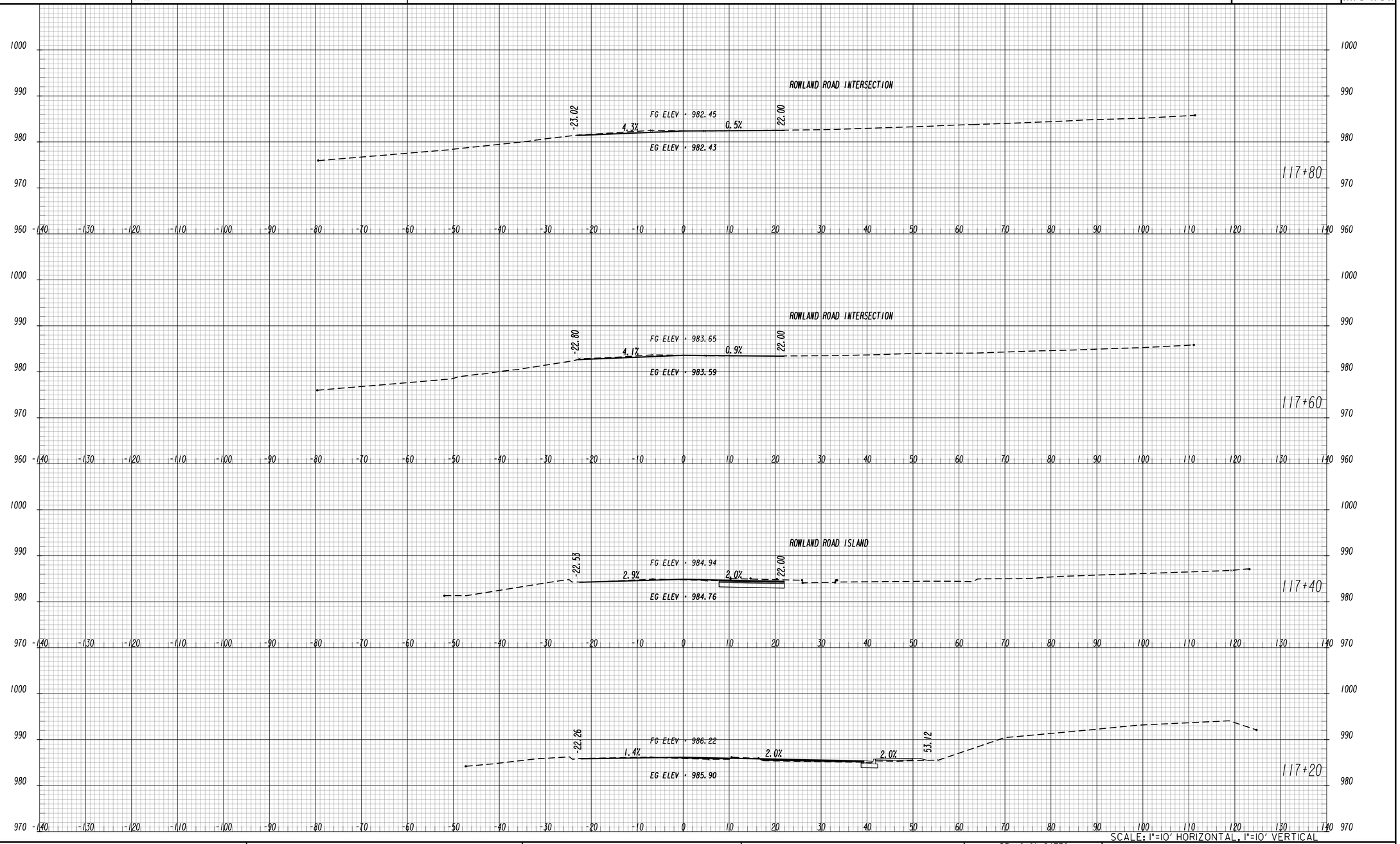

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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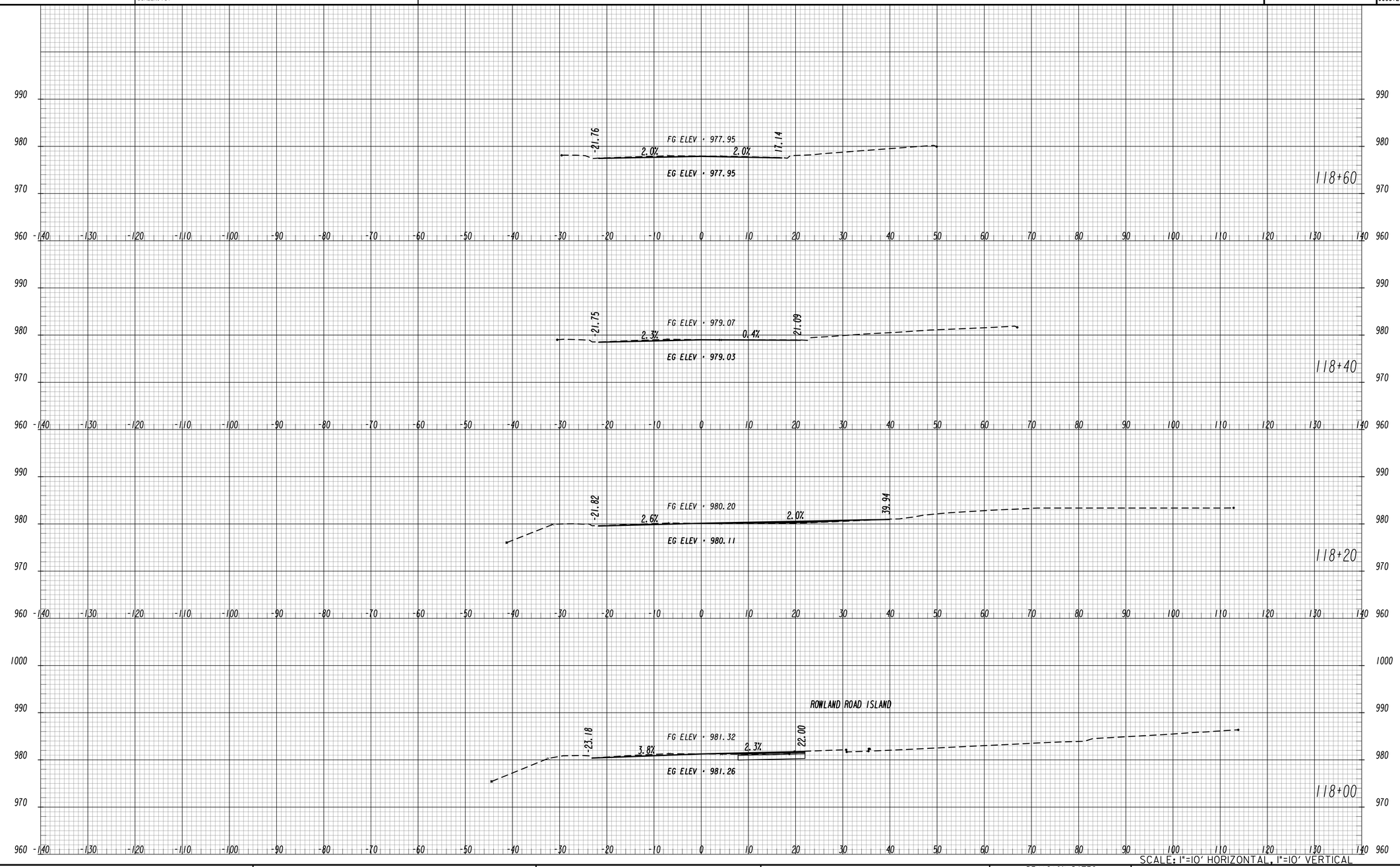

SCALE: 1"=10' HORIZONTAL, 1"=10' VERTICAL

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REVISION DATES

EARTHWORK CROSS SECTIONS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
	E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
	E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
	E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
	E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
	GW	GW	GW	GUY WIRE
	T	T	T	TELECOMMUNICATIONS
	T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
	T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
	TV	TV	TV	CABLE TV
	TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
	TC	TC	TC	TRAFFIC CONTROL
UNDERGROUND	E	E	E	ELECTRIC (QL-D)
	E(C)	E(C)		ELECTRIC (QL-C)
	E(B)	E(B)		ELECTRIC (QL-B)
	T	T	T	TELECOMMUNICATIONS (QL-D)
	T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
	T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
	TV	TV	TV	CABLE TV (QL-D)
	TV(C)	TV(C)		CABLE TV (QL-C)
	TV(B)	TV(B)		CABLE TV (QL-B)
	W	W	W	WATER (QL-D)
	W(C)	W(C)		WATER (QL-C)
	W(B)	W(B)		WATER (QL-B)
	**W	**W	**W	WATER FOR LABELED PIPE SIZES (QL-D)
	**W(C)	**W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
	**W(B)	**W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
	NW	NW	NW	NON-POTABLE WATER (QL-D)
	NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
	NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
	**NW	**NW	**NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
	**NW(C)	**NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
	**NW(B)	**NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
	STM	STM	STM	STEAM (QL-D)
	STM(C)	STM(C)		STEAM (QL-C)
	STM(B)	STM(B)		STEAM (QL-B)
	**STM	**STM	**STM	STEAM FOR LABELED PIPE SIZES (QL-D)
	**STM(C)	**STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
	**STM(B)	**STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
	SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
	SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
	SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
	Σ**SS	Σ**SS	Σ**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
	Σ**SS(C)	Σ**SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
	Σ**SS(B)	Σ**SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
	SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
	SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
	SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
	G	G	G	GAS (QL-D)
	G(C)	G(C)		GAS (QL-C)
	G(B)	G(B)		GAS (QL-B)
	**G	**G	**G	GAS FOR LABELED PIPE SIZES (QL-D)
	**G(C)	**G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
	**G(B)	**G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
	P	P	P	PETROLEUM (QL-D)
	P(C)	P(C)		PETROLEUM (QL-C)
	P(B)	P(B)		PETROLEUM (QL-B)
	**P	**P	**P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
	**P(C)	**P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
	**P(B)	**P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
	TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL (QL-D)
	TC(C)			TRAFFIC CONTROL (QL-C)
	TC(B)			TRAFFIC CONTROL (QL-B)
	UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
M	M	M	MARKER
X	X	X	SPLICE BOX
			CABINET
			VENT
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
E	E	E	ELECTRIC BOX
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE

EXISTING	PROPOSED	TEMPORARY	
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE
TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL MANHOLE/ ELECTRIC COMMUNICATIONS BOX
			TRAFFIC CONTROL PEDESTRIAN SIGNAL/BUTTON POST

MISCELLANEOUS

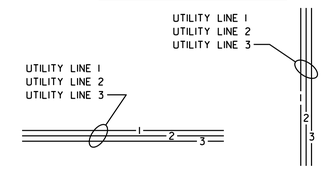
- LOS — LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
- TH — TEST HOLE (QL-A ONLY)
- EOI — END OF INFORMATION
- QUALITY LEVEL (QL) DELINEATION
- 123 — POLE ID
- MH — SANITARY SEWER MANHOLE (SSMH) ID
- C123 — CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)
- END OF UTILITY

ABBREVIATIONS

MANHOLE = LENGTH x WIDTH x DEPTH

PR	TELEPHONE PAIR SIZE	PVC	POLY VINYL CHLORIDE
SVC	SERVICE, UNKNOWN SIZE/TYPE	STR	FIBER STRAND SIZE
MTD	MULTIPLE TILE DUCT	TCP	TERRA COTTA PIPE
MCD	MULTIPLE CONCRETE DUCT	ACP	ASBESTOS CONCRETE PIPE
DIP	DUCTILE IRON PIPE	VCP	VITRIFIED CLAY PIPE
TRD	TRANSITE (ASBESTOS) DUCT	STD	SINGLE TILE DUCT
FOC	FIBER OPTIC CABLE	SCPD	SINGLE CREOSOTE PINE DUCT
CIP	CAST IRON PIPE	SD	SPLIT DUCT
SC	SCREEN CABLE	3PH	3 PHASE ELECTRIC
PE	POLYETHYLENE		

MULTI-UTILITY IDENTIFICATION



QUALITY LEVELS AND DEFINITIONS

OL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

OL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

OL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

OL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

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

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

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REVISION DATES		

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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

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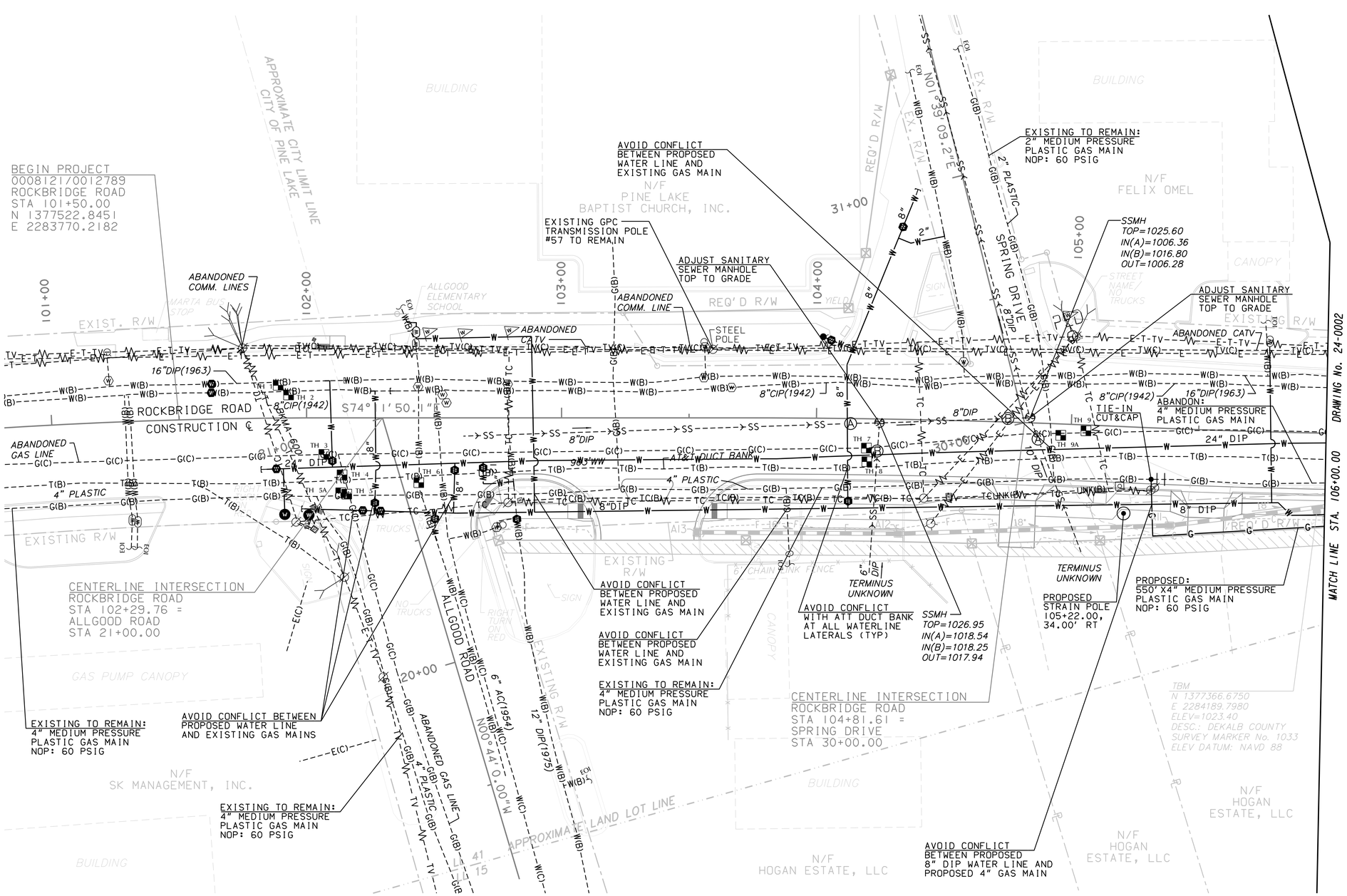

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

DEKALB COUNTY GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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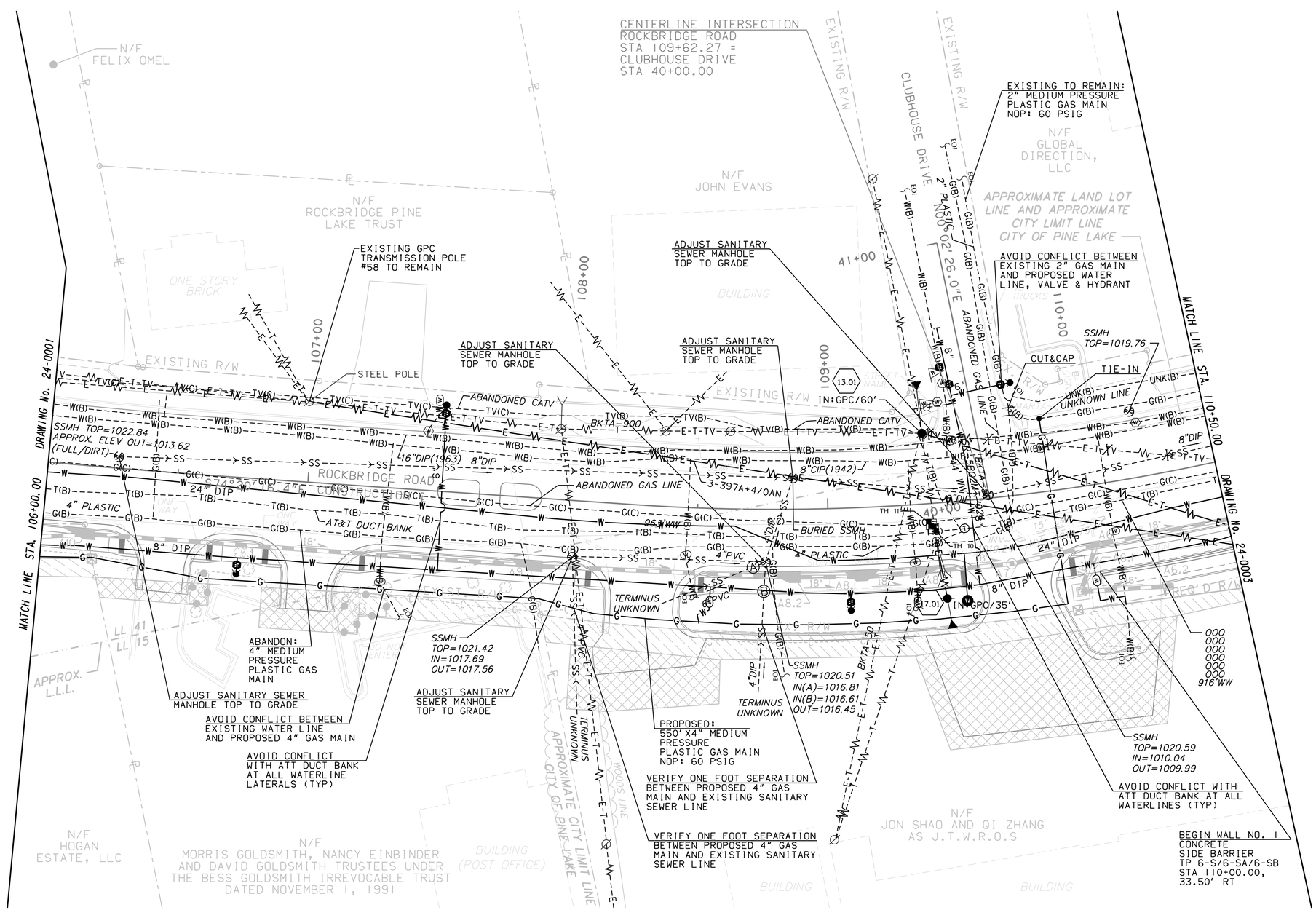

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

SCALE IN FEET
0 20 40 80

REVISION DATES		

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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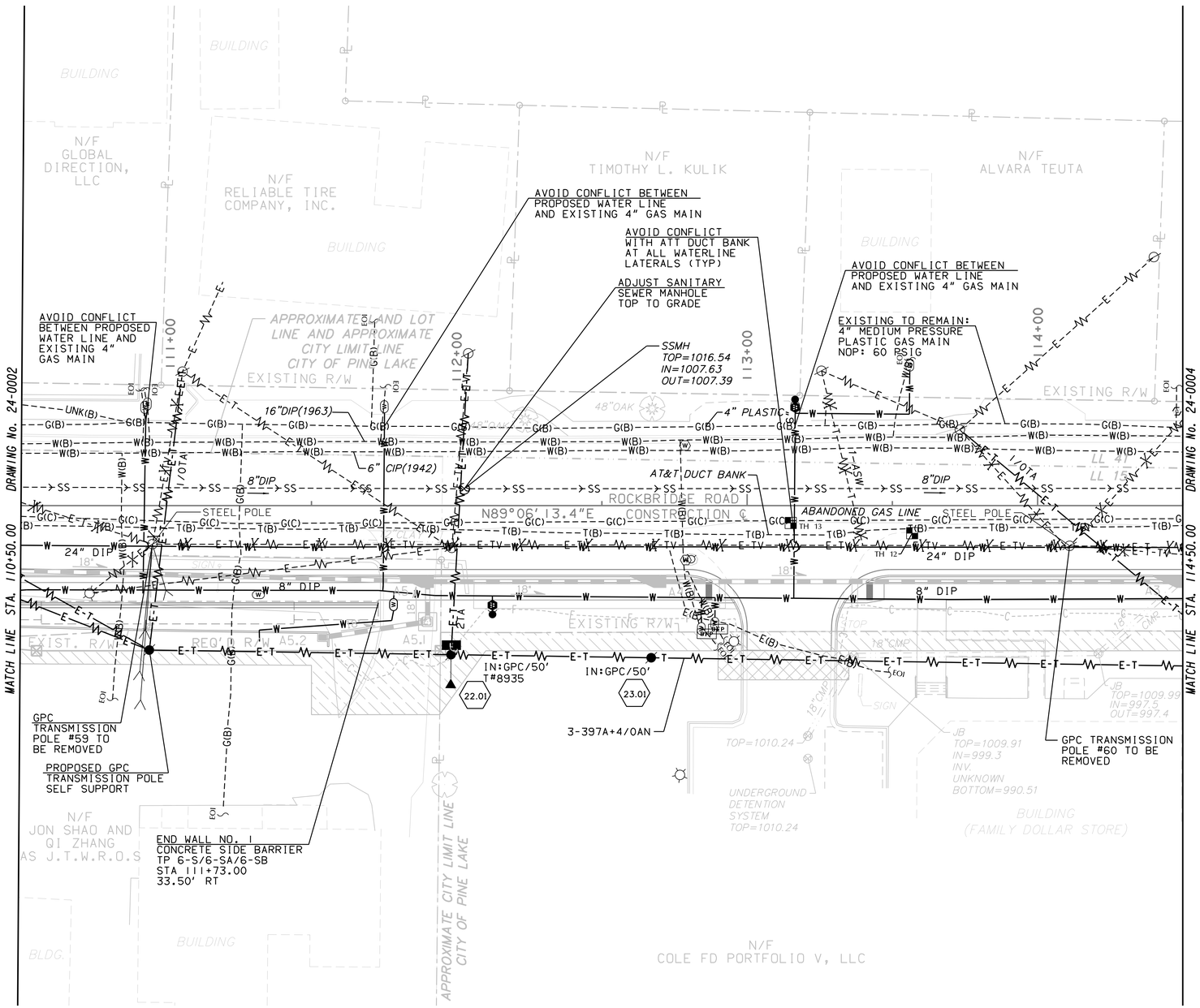

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

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SCALE IN FEET
0 20 40 80

REVISION DATES		

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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AVOID CONFLICT BETWEEN
PROPOSED WATER LINE
AND EXISTING 4" GAS MAIN

ADJUST SANITARY
SEWER MANHOLE
TOP TO GRADE

SSMH
TOP=999.36
IN(A)=989.76
IN(B)=990.51
OUT=989.71

EASEMENT FOR THE
CONSTRUCTION AND
MAINTENANCE OF
SIDEWALK AND SLOPES

EXISTING TO REMAIN:
4" MEDIUM PRESSURE
PLASTIC GAS MAIN
NOP: 60 PSIG

EXISTING TO REMAIN:
4" MEDIUM PRESSURE
PLASTIC GAS MAIN
NOP: 60 PSIG

AVOID CONFLICT BETWEEN
EXISTING 4" GAS MAIN
AND PROPOSED WATER
LINE, VALVE & HYDRANT

PROPOSED GPC
TRANSMISSION
POLE

GPC TRANSMISSION
POLE #61 TO BE REMOVED

CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 117+69.85 =
ROWLAND ROAD
STA 51+50.00 =
POPLAR ROAD
STA 60+00.00

SSMH
(PAVED OVER. ELEVATIONS SHOWN
ARE FROM PREVIOUS SURVEY)
TOP=982.71
IN(A)=968.01
IN(B)=973.02
OUT=963.24

EXISTING TO REMAIN:
4" GAS VALVE
(EMERGENCY SHUT OFF)
ADJUST VALVE BOX
TO GRADE

ADJUST SANITARY
SEWER MANHOLE
TOP TO GRADE

ABANDONED
GAS LINE

END PROJECT
0008121/0012789
ROCKBRIDGE ROAD
STA 118+65.00
N 1377317.0638
E 2285455.3244

AVOID CONFLICT WITH
ATT DUCT BANK AT ALL
WATERLINES
(TYP)

ABANDONED
GAS LINE

ROCKBRIDGE ROAD
CONSTRUCTION ℄

T#1041090

ADJUST SANITARY
SEWER MANHOLE
TOP TO GRADE

SSMH
TOP=1001.25
IN=991.23
OUT=991.05

IN:GPC/50'

TERMINUS
UNKNOWN

PROPOSED GPC
TRANSMISSION POLE

AVOID CONFLICT
WITH ATT DUCT BANK
AT ALL WATERLINE
LATERALS (TYP)

SSMH
TOP=997.15
IN(A)=992.05
IN(B)=992.09
OUT=991.79

BEGIN MORTAR
RUBBLE MASONRY
WALL NO. 2
STA 115+75.00,
41.50' RT
GDOT STD 9031L

END MORTAR RUBBLE
MASONRY WALL NO. 2
STA 117+13.12
53.43' RT
GDOT STD 9031L

STEEL
POLE

ZAYO
PULLBOX

ZAYO UG FIBER
OPTIC CABLE

ZAYO UG FIBER
OPTIC CABLE

SSMH
TOP=980.30
IN=969.34
OUT=969.20

EXISTING TO REMAIN:
4" MEDIUM PRESSURE
PLASTIC GAS MAIN
NOP: 60 PSIG

AVOID CONFLICT BETWEEN
PROPOSED WATER LINE
AND EXISTING 4" GAS MAIN
(TYP)

IN
GPC/50'

COLE FD PORTFOLIO V, LLC

MALEK SULTAN

T.O.H. ASSOCIATES, LTD.

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

SCALE IN FEET
0 20 40 80

REVISION DATES		

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR

N

N/F
BBT
INVESTMENTS,
LLC

SWCB
TOP=974.03
IN (A)=964.40
IN (B)=966.71
IN (C)=968.13
OUT=964.28

48"RCP
INV.963.81

DWCB
TOP=972.52
IN=967.57

120+00

121+00

24" RCP

EXISTING R/W

24" RCP

90

16"DIP(1963)

6"CIP(1942)

APPROXIMATE LAND LOT LINE

LL 40
LL 16

ROCKBRIDGE ROAD CONSTRUCTION

N89°06'13.4"E

SSMH
TOP=978.10
IN(A)=972.40(8" DIP)
IN(B)=972.80(8" DIP)
OUT=972.20

786'WW

ZAYO UG FIBER OPTIC CABLE

DWCB
TOP=968.38
IN=963.38

8"PVC

36" RCP

36" CMP

36" CMP

36" CMP

EXISTING R/W

EXISTING R/W

93

JB
TOP=974.84
IN (A)=968.54
IN (B)=968.6
OUT=968.4

JB
TOP=975.11
IN (A)=966.01
IN (B)=965.99
OUT=965.8

MATCH LINE STA. 119+50.00 DRAWING No. 24-0004

EXISTING TO REMAIN:
4" MEDIUM PRESSURE
STEEL GAS MAIN
NOP: 60 PSIG
WT:UNK/GRADE:UNK
CP RECTIFIER

N/F
T.O.H. ASSOCIATES, LTD.

THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBOR

4/5/2018 3:55:52 PM	GPLOT-V8	\\vhb\proj\Buford\63023.00 DeKalb_Rockbridge\cad\te\DGN\0008121_26-0001.dgn	P. I. No.
USER:pwansley	SCREEN_SW.tbl		0008121/0012789

BEGIN PROJECT
0008121/0012789
ROCKBRIDGE ROAD
STA 101+50.00
N 1377522.8451
E 2283770.2182

R3-17 (24X18)
R3-17BP (24X8)
STA 102+40

W11-1 (30X30)
W16-1 (18X24)
STA 101+95

R560-5 (18X24)
STA 30+77

R1-2 (36X36X36)
STA 104+03

R3-17 (24X18)
R3-17BP (24X8)
R3-17AP (24X8)
STA 103+90

5" SOLID WHITE (TYP) WITH TYPE 3 (CL/RED) RPM'S @ 20' SPACING

REMOVE AND RESET "ALLGOOD ELEMENTARY SCHOOL" SIGN AT STA 103+00

5" DOUBLE SOLID YELLOW (TYP) WITH TYPE I (YELLOW) RPM'S (2 EA) @ 40' SPACING

5" SKIP WHITE (TYP) (2' SEG, 6' GAP) (TYP) WITH TYPE 3 (CL/RED) RPM'S @ 24' SPACING

R9-3 (18X18)
R9-3BR (18X12)
STA 104+47

5" SOLID WHITE (TYP)

REMOVE EXISTING R1-2 SIGN 30+58.47

W11-1 (30X30)
STA 31+45

LIMITS OF MARKING
STA 31+02.00
MATCH EXISTING

5" DOUBLE SOLID YELLOW (TYP) WITH TYPE I (YELLOW) RPM'S (2 EA) @ 40' SPACING

D3-1 (30X12)
D3-1 (42X12)
R5-2 (24X24)
R12-3SP (24X36)
STA 104+95

5" SKIP YELLOW (TYP) (10' SEG, 30' GAP) WITH TYPE I (YELLOW) RPM'S @ 40' SPACING

5" SOLID WHITE (TYP)

5" SOLID YELLOW (TYP)

CROSSWALK 8" SOLID WHITE (TYP)

5" SOLID WHITE (TYP)

24" SOLID WHITE (TYP)

TYPE 2 ARROW (TYP)

R3-17 (24X18)
STA 102+85

BEGIN MARKING
STA 101+55.00
MATCH EXISTING

CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 102+29.76 =
ALLGOOD ROAD
STA 21+00.00

EXISTING STRAIN POLE TO REMAIN

REQUIRED 6 SY YELLOW HATCHING DETAIL "A"

REQUIRED 14 SY WHITE HATCHING DETAIL "A"

BIKE LANE
5" SKIP WHITE (2' SEG, 6' GAP) WITHOUT RPM'S (TYP)

REQ'D 58 SQ. YDS TRAFFIC STRIPING YELLOW, DETAIL "B"

BICYCLE LANE PAVEMENT MARKINGS (TYP) GDOT DETAIL T-16

R9-3 (18X18)
R9-3BL (18X12)
STA 104+48

CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 104+81.61 =
SPRING DRIVE
STA 30+00.00

R3-17 (24X18)
STA 105+26

LIMITS OF MARKING
STA 20+44.16
MATCH EXISTING

R3-17 (24X18)
R3-17AP (24X8)
STA 101+86

R560-5 (18X24)
STA 103+59

W11-1 (30X30)
STA 19+53

D3-1 (36X12)
D3-1 (42X12)
STA 102+78

R1-2 (36X36X36)
STA 103+70

MATCH LINE STA. 106+00.00 DRAWING No. 26-0002

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

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USER:pwansley		SCREEN_SM.tbl		0008121/0012789

CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 109+62.27 =
CLUBHOUSE DRIVE
STA 40+00.00

EXISTING R/W

CLUBHOUSE DRIVE

EXISTING R/W

Clubhouse Dr

Rockbridge Rd

D3-1 (42X12)
D3-1 (42X12)
STA 109+42

LIMITS OF MARKING
STA 40+50.00
MATCH EXISTING

5" DOUBLE SOLID
YELLOW (TYP)
WITH TYPE I
(YELLOW) RPM'S
(2 EA) @ 40' SPACING

5" SKIP YELLOW (TYP)
(10' SEG, 30' GAP) WITH
TYPE I (YELLOW) RPM'S
@ 40' SPACING

ONE STORY
BRICK

R3-17 (24X18)
STA 109+19

BUILDING

41+00

REQ'D 54 SQ. YDS
TRAFFIC STRIPING
YELLOW, DETAIL "B"

R4-7 (24X30)
STA 107+55

REQ'D 37 SQ. YDS
TRAFFIC STRIPING
YELLOW, DETAIL "B"

5" SOLID
YELLOW (TYP)

5" SOLID
WHITE (TYP)

EXISTING R/W

107+00

108+00

109+00

110+00

NO
TRUCKS

EX. R/W

STREET
NAME

MARTA

EXISTING R/W

MATCH LINE STA. 110+50.00

DRAWING No. 26-0001

35MPH

TYPE 2
ARROW (TYP)

ROCKBRIDGE ROAD
CONSTRUCTION ℄

ONE
WAY

ONE
WAY

CROSSWALK 8" SOLID
WHITE (TYP)

40+00

MATCH LINE STA. 106+00.00

DRAWING No. 26-0003

TYPE I
ARROW
(TYP)

EXIST. R/W

REQ'D R/W

EX. R/W

NOTE:
EXISTING "POST
OFFICE" SIGNS
SHALL BE REMOVED
& REINSTALLED WITH
THE NEW SIGNS LOCATED
AT STA 106+62 AND
STA 106+89. THE
ORIENTATION OF THESE
SIGNS SHALL REMAIN
UNCHANGED.

5" SOLID
WHITE (TYP)

5" SOLID WHITE
(TYP) WITH TYPE 3
(CL/RED) RPM'S
@ 20' SPACING

REMOVE AND RESET
MARTA BUS SIGN
STA 109+35

BICYCLE LANE
PAVEMENT MARKINGS
(TYP)
GDOT DETAIL T-16

24" SOLID
WHITE (TYP)

R5-1 (30X30)
STA 107+19

DO NOT
ENTER

5" SKIP WHITE (TYP)
(2' SEG, 6' GAP)
(TYP) WITH TYPE 3
(CL/RED) RPM'S
@ 24' SPACING

5" SKIP WHITE (TYP)
(2' SEG, 6' GAP)

R3-17 (24X18)
STA 110+27

R1-1 (30X30)
STA 107+18

STOP

R4-7 (24X30)
STA 107+85

R6-2L (24X30)
R6-2R (24X30)
STA 106+89

R6-2R (24X30)
R6-2L (24X30)
STA 106+62

BUILDING
(POST OFFICE)

BUILDING

BUILDING

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

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

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SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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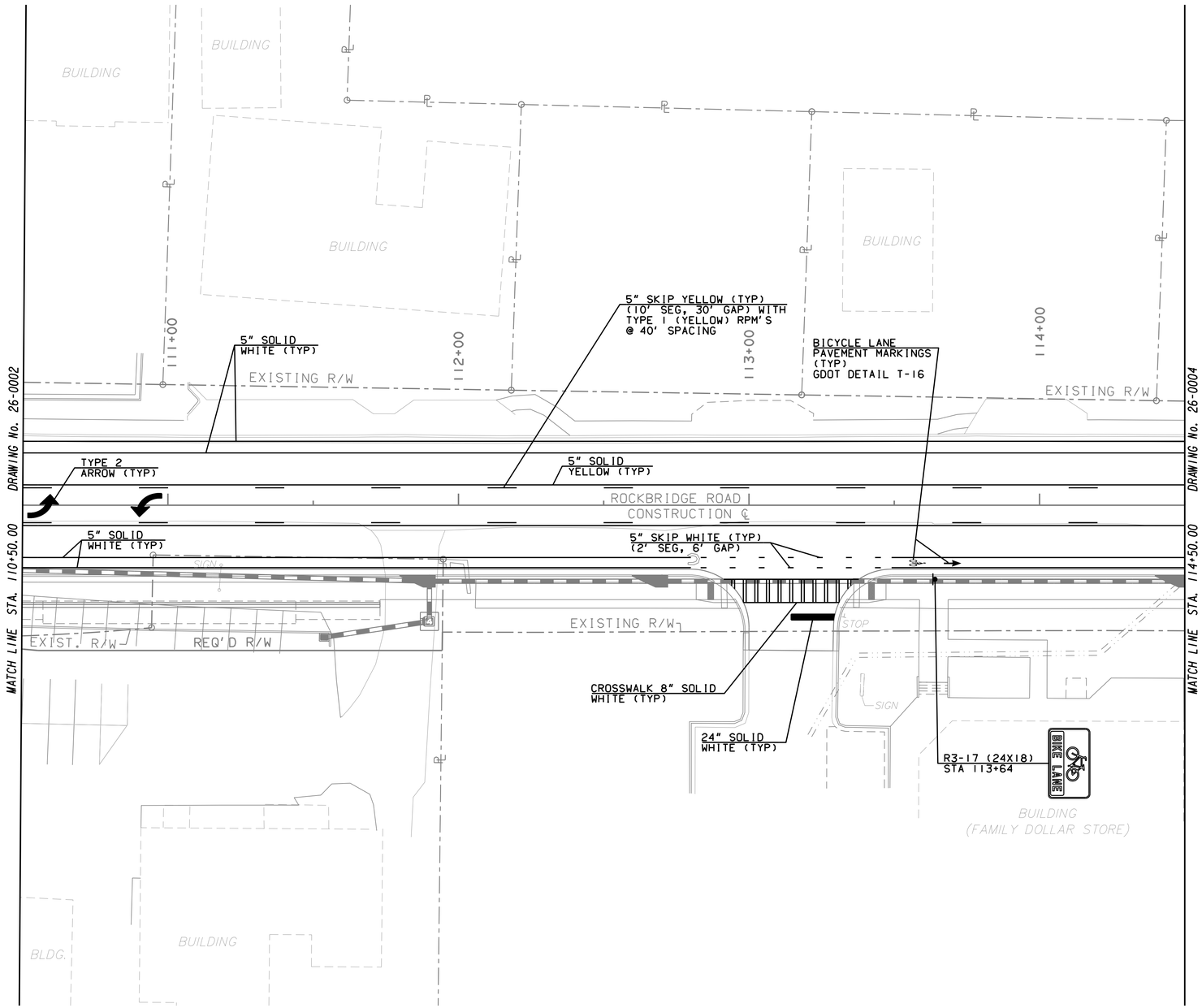
8/28/2015 CONBDR



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

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

DEKALB · COUNTY · GEORGIA · 1822

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SCALE IN FEET
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REVISION DATES

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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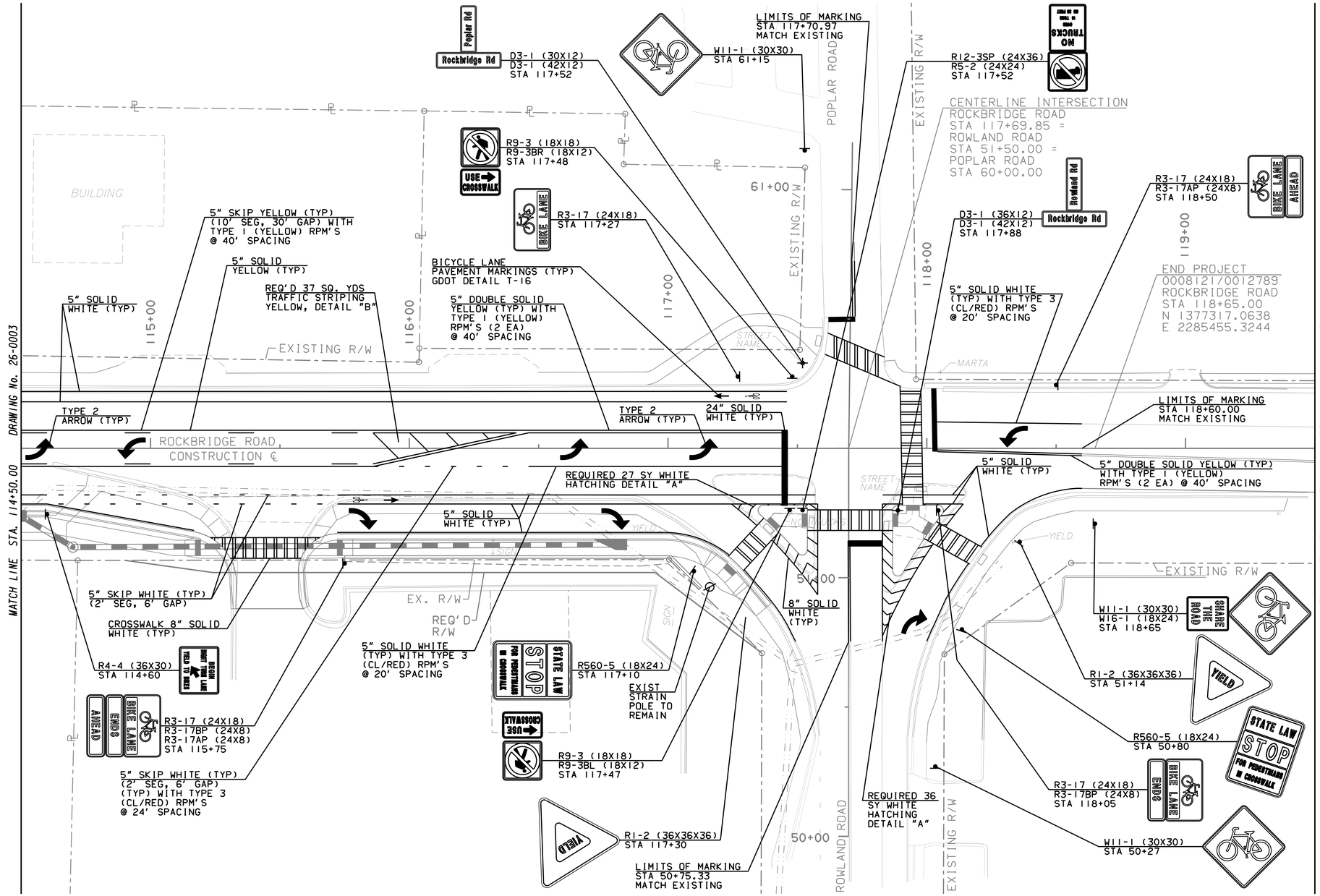
VERIFIED:		DATE:		

8/28/2015 CONBOR



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

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

DEKALB COUNTY GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0004
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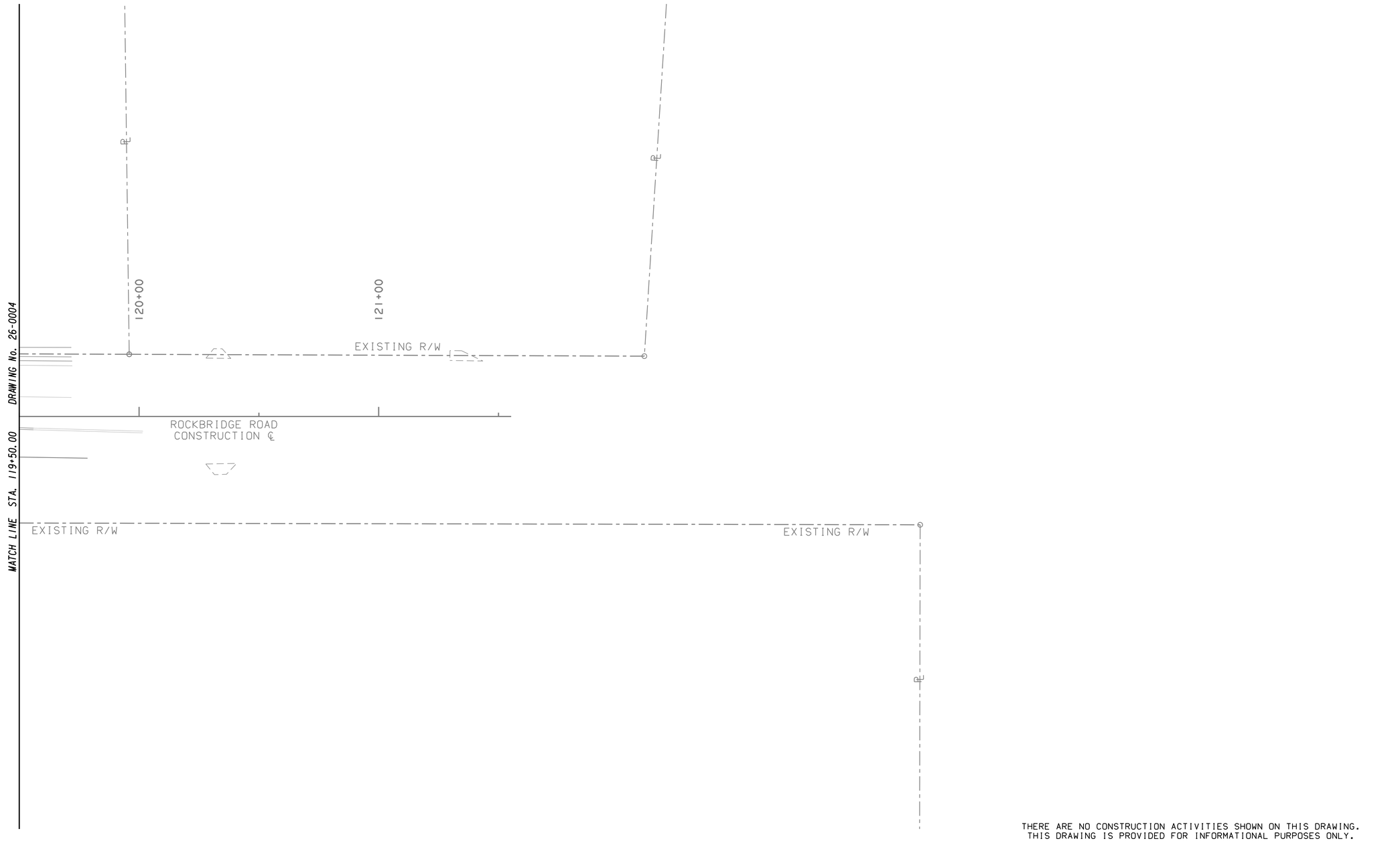
VERIFIED:		DATE:		

8/28/2015 CONBOR



THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES		

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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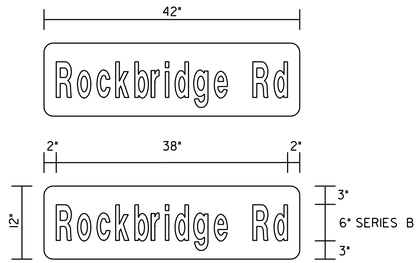
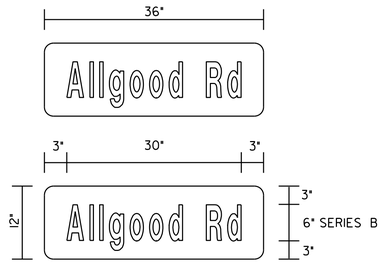
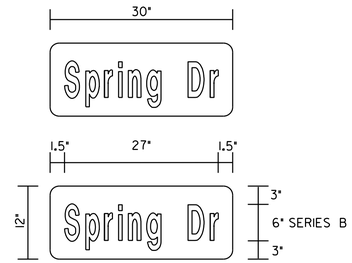
8/28/2015 CONBDR



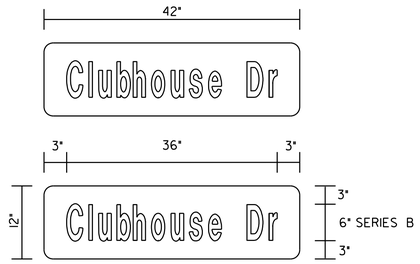
D3-1 (DOUBLE SIDED)
STA 102+78 RT
STA 104+95 LT
STA 109+42 LT
STA 117+52 LT
STA 117+88 RT
WHITE LEGEND
GREEN BACKGROUND



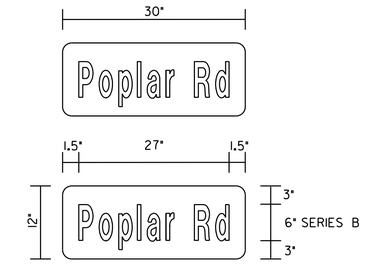
D3-1 (DOUBLE SIDED)
STA 102+78 RT
WHITE LEGEND
GREEN BACKGROUND



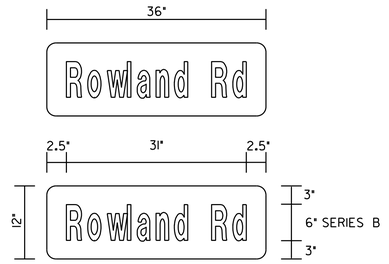
D3-1 (DOUBLE SIDED)
STA 104+95 LT
WHITE LEGEND
GREEN BACKGROUND



D3-1 (DOUBLE SIDED)
STA 109+42 LT
WHITE LEGEND
GREEN BACKGROUND



D3-1 (DOUBLE SIDED)
STA 117+52 LT
WHITE LEGEND
GREEN BACKGROUND



D3-1 (DOUBLE SIDED)
STA 117+88 RT
WHITE LEGEND
GREEN BACKGROUND

REVISION DATES

SIGNING AND MARKING PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		26-0006
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VERIFIED:		DATE:		

8/28/2015 CONBDR

EXISTING UTILITIES

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

EXISTING SIGNAL

- CONTROLLER CABINET
- POLE MOUNTED CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 5 SECTION HEAD
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX,TP 1
- PULLBOX,TP 2
- PULLBOX,TP 4
- PULLBOX,TP 5
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

PROPOSED SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 4 SECTION HEAD W/BACKPLATE
- 5 SECTION HEAD OR 4 SECTION T-SHAPE HEAD
- 5 SECTION HEAD W/ BACKPLATE OR 4 SECTION T-SHAPE HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP - (See ADA Detail)
- PULLBOX,TP 1
- PULLBOX,TP 2
- PULLBOX,TP 3
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- DIRECTIONAL BORE
- RAILROAD CONTROLLER
- SIGN POST
- CCTV

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

REVISION DATES		

SIGNAL PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		27-0001
VERIFIED:		DATE:		

8/28/2015 CONBOR

LED COUNTDOWN PED HEAD

P4

PEDESTRIAN SIGN

R10-3E(L)
9" X 15"

LIST OF MATERIALS

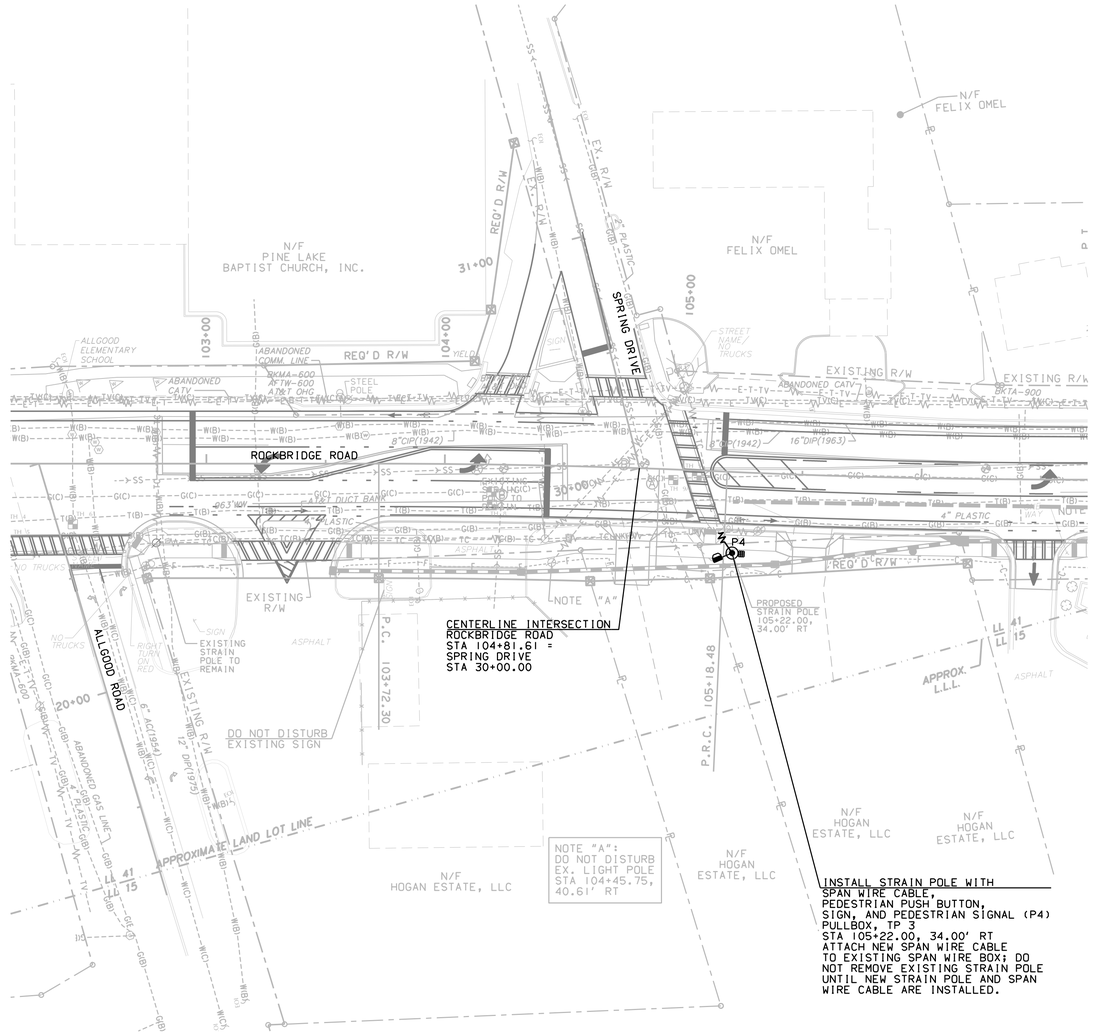
	MATERIALS	UNIT	QUANTITY
	LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT): 3 PAIR, 18 AWG	REEL	1
	SIGNAL CABLE (14 AWG): 7 CONDUCTOR, PER 1000 FT.	REEL	1
	1-SECTION, 16" x 18" LED - "INCANDESCENT LOOK" COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP 9" HIGH, NUMBERS & 12" SYMBOLS	EA	1
	PEDESTRIAN PUSHBUTTONS STATIONS, W/BUTTONS AND SIGNS: 9" x 15", R10-3E, (L)EFT OR (R)IGHT, COUNTDOWN	EA	1
	HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	1
	PEDESTAL POLE & SQUARE BASE	EA	1
	PULL BOX, PB-2	EA	1
	PULL BOX, PB-3	EA	1
	CONDUIT, NONMETAL, TP 2, 1"	LF	10
	CONDUIT, NONMETAL, TP 2, 2"	LF	15
	MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

NOTE: THE LIST OF MATERIALS IS A GUIDE, NOT AN ALL-INCLUSIVE LIST

PAY ITEMS

639-2002	STEEL WIRE STRAND CABLE, 3/8 IN	LF	15
639-4004	STRAIN POLE, TP IV	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP

NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY



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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 30 60 120

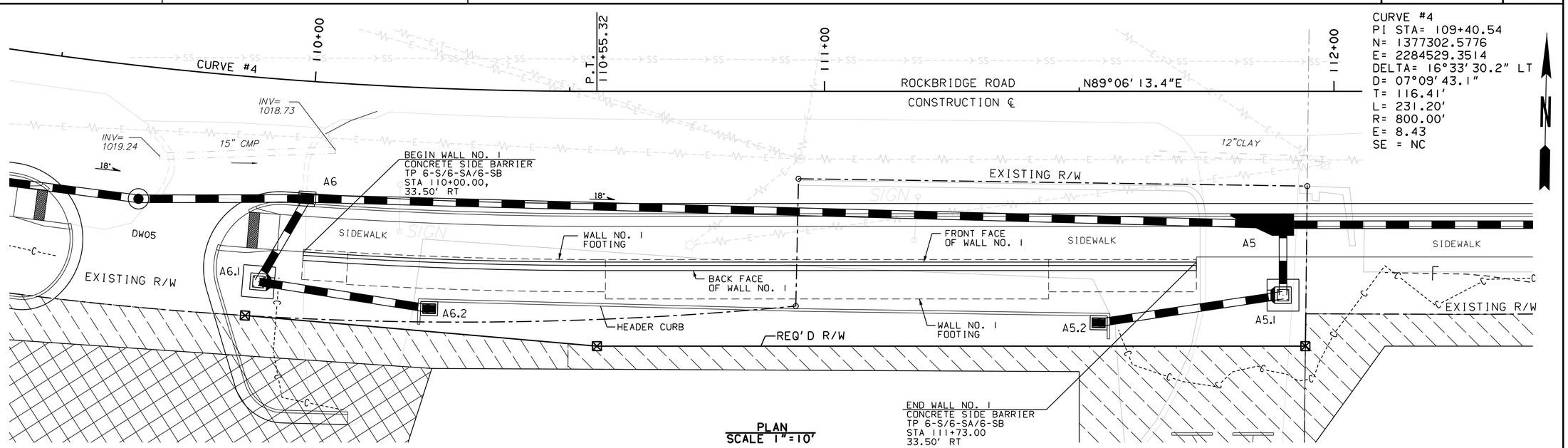
REVISION DATES		

SIGNAL PLANS

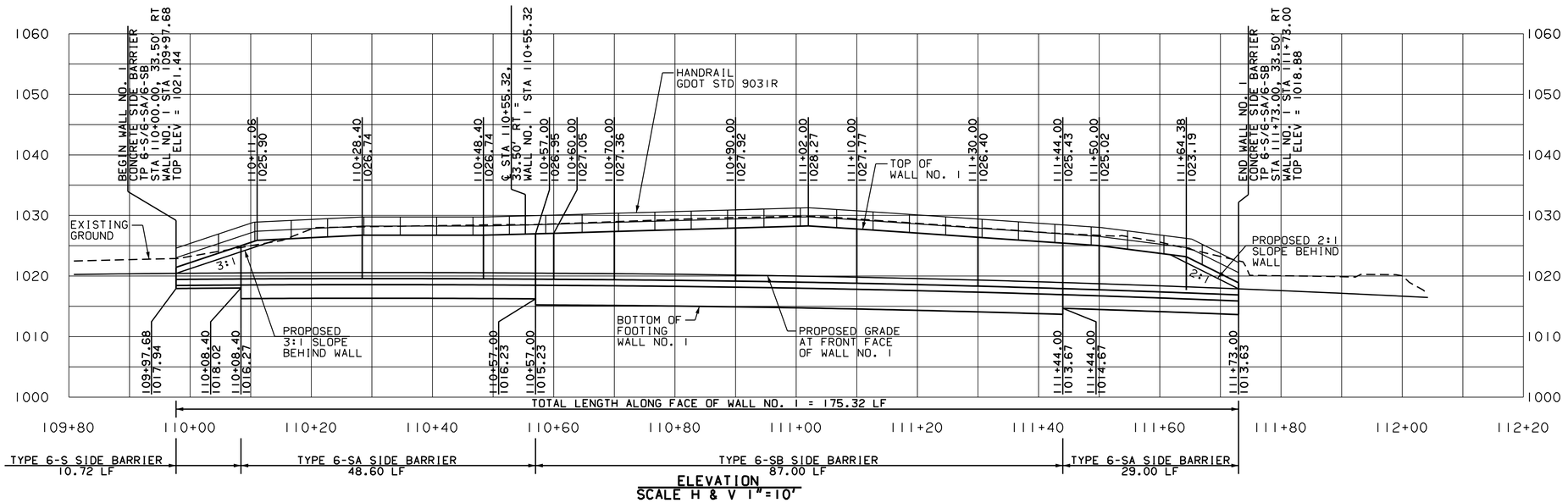
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		27-0002
VERIFIED:		DATE:		

8/28/2015 CONBDR



PLAN
SCALE 1"=10'



ELEVATION
SCALE H & V 1"=10'

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

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

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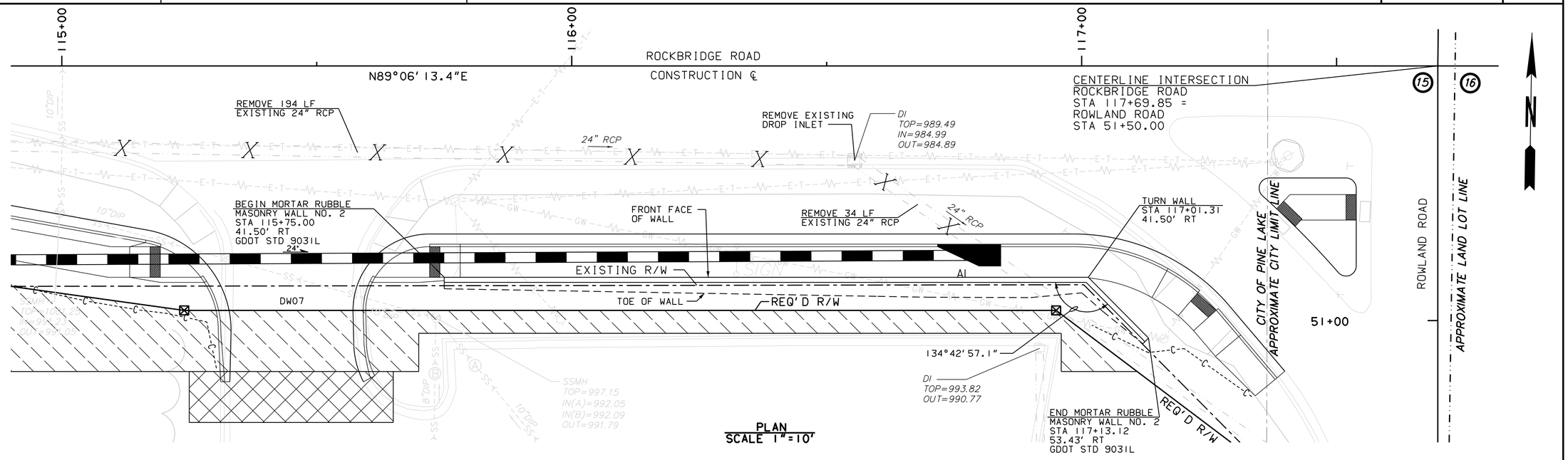
REVISION DATES

RETAINING WALL ENVELOPES

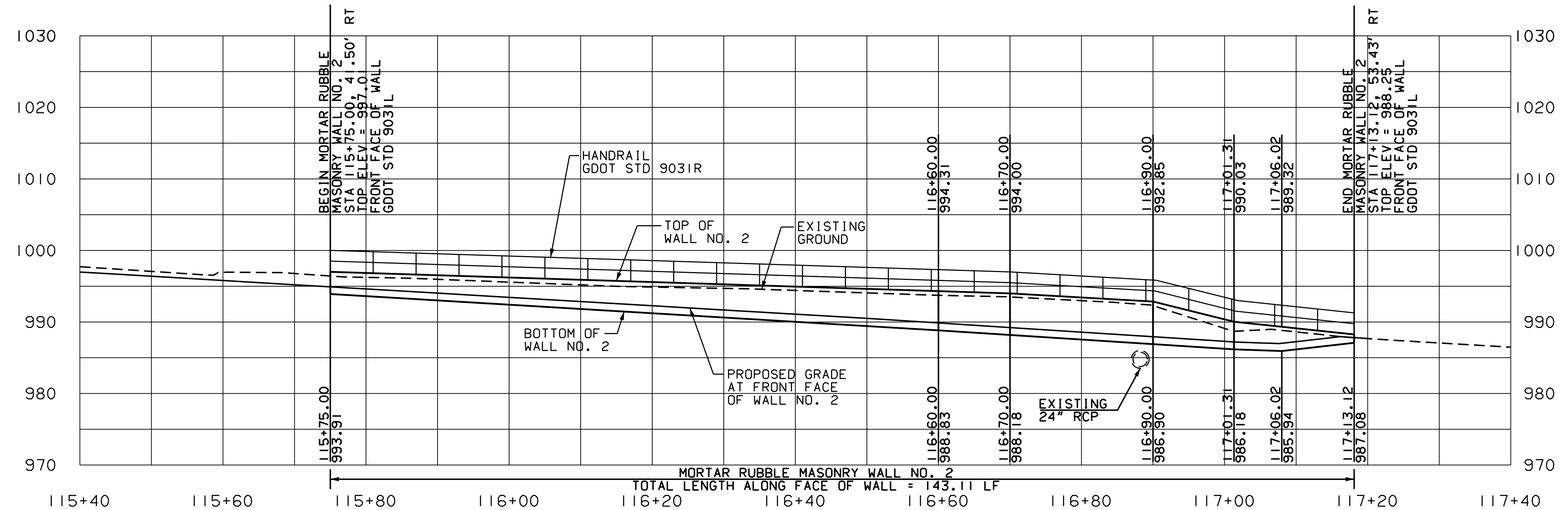
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		31-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR



PLAN
SCALE 1"=10'



ELEVATION
SCALE H & V 1"=10'

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB · COUNTY · GEORGIA 1822

vhb

REVISION DATES

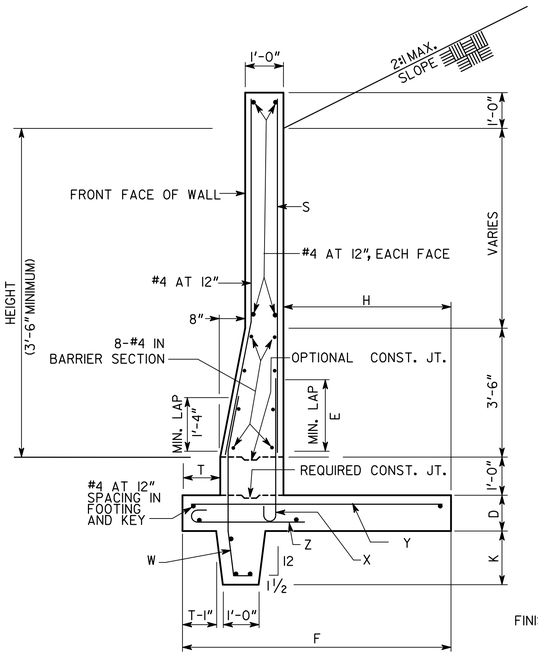
RETAINING WALL ENVELOPES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		31-0002
VERIFIED:		DATE:		

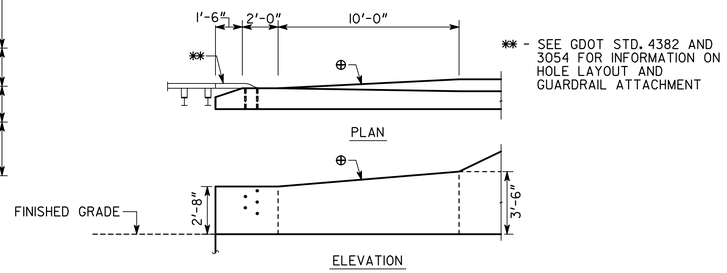
8/28/2015 CONBDR

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

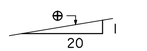


TYPICAL BARRIER SECTION

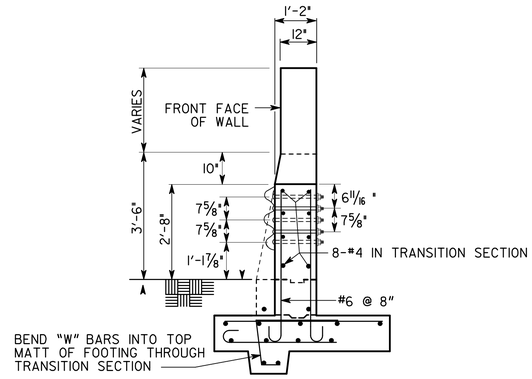
MAX. HEIGHT	WALL DIMENSIONS						REINFORCEMENT					Δ (INCHES)	REQUIRED NOMINAL RESISTANCE	TYPE
	D	E	F	H	T	K	S	W	X	Y	Z			
3'-6"	1'-0"	1'-4"	4'-4"	2'-2"	0'-6"	0'-6"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#5 AT 18"	#4 AT 18"	0	2.5 KSF	6-S
4'-6"	1'-0"	1'-4"	5'-11"	3'-9"	0'-6"	0'-6"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#6 AT 12"	#4 AT 18"	1/16"	3.0 KSF	
5'-6"	1'-0"	1'-4"	4'-6"	2-4"	0'-6"	2'-3"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#5 AT 12"	#4 AT 18"	1/8"	4.5 KSF	6-SA
6'-6"	1'-0"	1'-4"	6'-4"	4'-2"	0'-6"	2'-3"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#8 AT 12"	#4 AT 18"	3/16"	4.5 KSF	
7'-6"	1'-0"	1'-4"	6'-0"	3'-10"	0'-6"	3'-3"	#4 AT 12"	#4 AT 12"	#4 AT 12"	#9 AT 12"	#4 AT 18"	1/4"	5.75 KSF	6-SB
8'-6"	1'-0"	1'-4"	7'-9"	5'-7"	0'-6"	3'-3"	#4 AT 8"	#4 AT 12"	#4 AT 8"	#9 AT 8"	#4 AT 18"	5/16"	5.75 KSF	
9'-6"	1'-3"	1'-8"	7'-9"	4'-9"	1'-4"	4'-3"	#5 AT 10"	#5 AT 12"	#5 AT 10"	#9 AT 10"	#4 AT 12"	7/16"	6.0 KSF	6-SC
10'-6"	1'-3"	1'-8"	9'-9"	6'-9"	1'-4"	4'-3"	#5 AT 8"	#5 AT 12"	#5 AT 8"	#9 AT 8"	#4 AT 12"	9/16"	6.0 KSF	



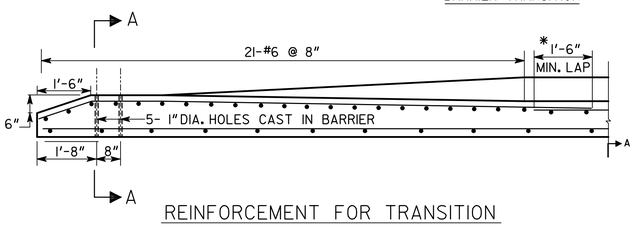
BARRIER TRANSITION DETAIL



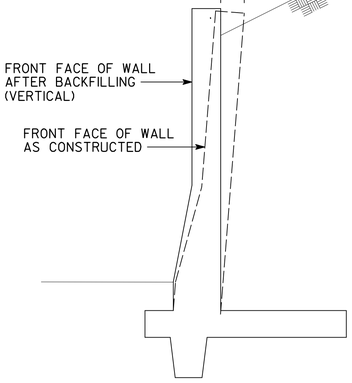
BARRIER TRANSITION



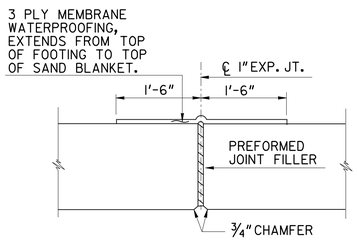
SECTION A-A



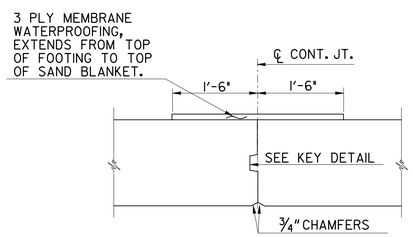
REINFORCEMENT FOR TRANSITION



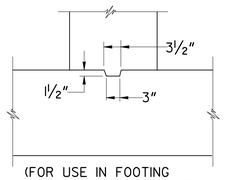
WALL BATTER DETAIL



DETAIL OF EXPANSION JOINT

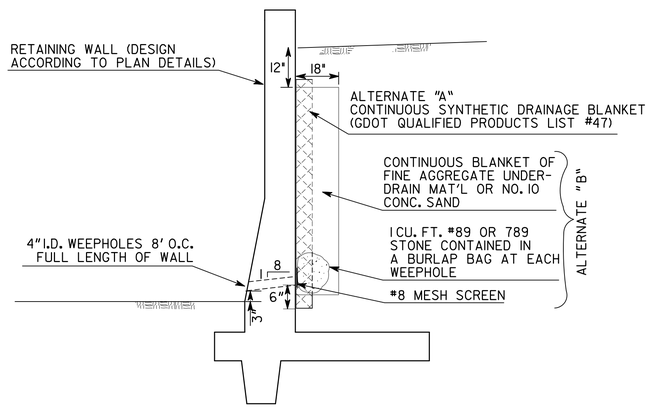


DETAIL OF CONTRACTION JOINT



(FOR USE IN FOOTING AND CONTRACTION JOINT)

SHEAR KEY DETAIL



DRAINAGE DETAILS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. CONCRETE SHALL BE CLASS "AA". REINFORCING STEEL SHALL BE GRADE 60.
3. DRAINAGE DETAIL ALTERNATES A OR B, PER THE DETAIL ON THIS SHEET, ARE REQUIRED FOR TYPES 6-S, 6-SA, 6-SB, AND 6-SC. INCLUDE COST OF MATERIALS AND WORK IN PRICE BID FOR BARRIER.
4. MAINTAIN 2" COVER ON ALL REINFORCING IN STEM AND BARRIER AND 3" COVER IN FOOTING. USE OF FORMLINERS PER THE CONTRACT WILL REQUIRE OVERALL STEM AND BARRIER WIDTHS TO BE INCREASED TO MAINTAIN COVER.
5. EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH UNLESS A FORMLINER IS REQUIRED PER THE CONTRACT. FORMLINERS SHALL NOT BE APPLIED TO THE BARRIER FACE.
6. APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 TO ALL EXPOSED CONCRETE SURFACES.
7. EXPANSION JOINTS SHALL BE SPACED UNIFORMLY AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE BARRIER, STEM AND FOOTING. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 20'-0" AND EXTEND THROUGH THE BARRIER AND STEM ONLY.
8. EXPANSION AND CONTRACTION JOINTS IN TYPES 6-S, 6-SA, 6-SB, AND 6-SC SIDE BARRIER SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM 1'-0" BELOW FINISH GRADE TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
9. TYPES 6-S, 6-SA, 6-SB AND 6-SC SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 6-S, 6-SA, 6-SB, OR 6-SC PRICE BID TO INCLUDE COST OF WATERPROOFING AND ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STANDARD SPECIFICATIONS IN THE PRICE BID.
10. TYPE 6-S, 6-SA, 6-SB AND 6-SC SIDE BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE 2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
11. SIDE BARRIER DESIGN FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 KSF	0 KSF
θ =	28°	28°
UNIT WT. =	0.120 KCF	0.120 KCF

12. WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO & APPROVED BY THE ENGINEER PRIOR TO USE.
13. AT CONTRACTOR'S OPTION, SIDES OF KEY MAY BE VERTICAL. MAINTAIN WIDTH SHOWN AT TOP OF KEY.
14. PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACK FACE SIDE OF WALL
15. WHERE GUARDRAIL ATTACHMENT IS REQUIRED, USE BARRIER TRANSITION DETAIL. INCLUDE COSTS FOR TRANSITION AND THE FIVE 1" DIAM. HOLES, PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE IN THE PRICE BID FOR CONCRETE SIDE BARRIER, TYPE 6-S, 6-SA, 6-SB, OR 6-SC BASED ON STEM HEIGHT REQUIRED.

38-0001

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

CONCRETE SIDE BARRIER TYPES 6-S, 6-SA, 6-SB AND 6-SC

NO SCALE — DECEMBER 2017

BY	DATE	REVISION
DES. CEW		
DRW. DDF		
CHK. DDF		
REV. WMD/BAS		

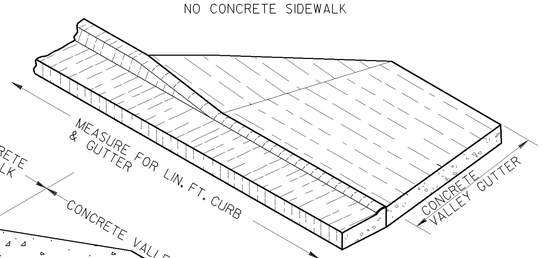
(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) CHIEF ENGINEER

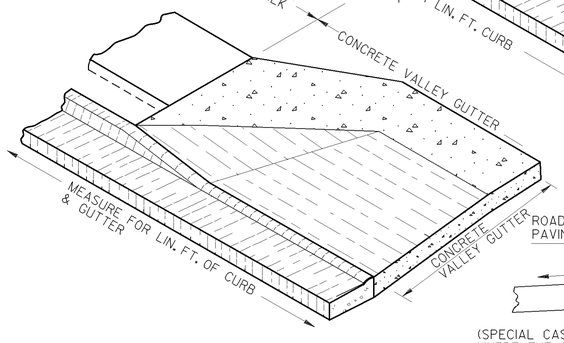
NUMBER 4949C

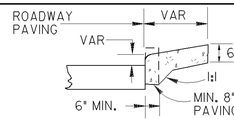
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

PICTORIAL SECTION
NO CONCRETE SIDEWALK

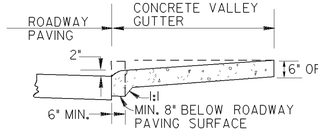


PICTORIAL SECTION
DRIVEWAY & CONRETE SIDEWALK



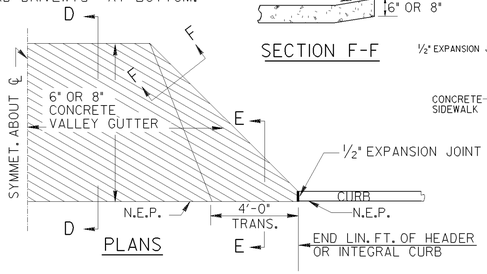


SECTION E-E

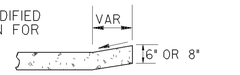


SECTION D-D

NOTE:
PLAN VIEW DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWYS AT BOTTOM.

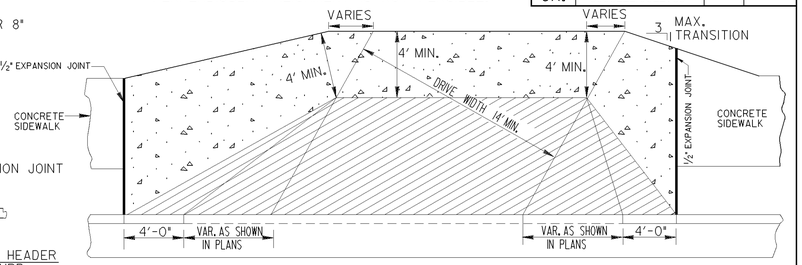


PLANS



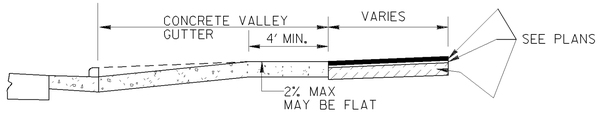
SECTION F-F

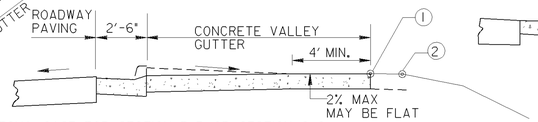
NOTE: DRIVEWAYS WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



DRIVE ENTRANCE MODIFIED FOR SKEW

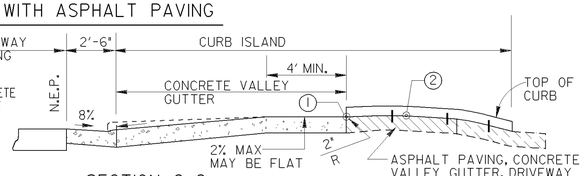
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY



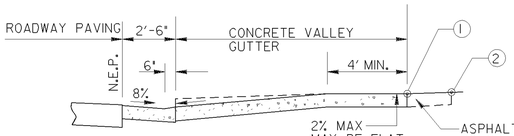


(SPECIAL CASE FOR SECTION B-B OR SECTION C-C: WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

SECTION WITH ASPHALT PAVING



SECTION C-C

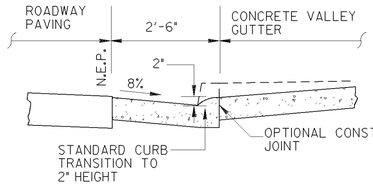


SECTION B-B

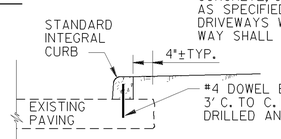
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: ① AND ② MAY COINCIDE



NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



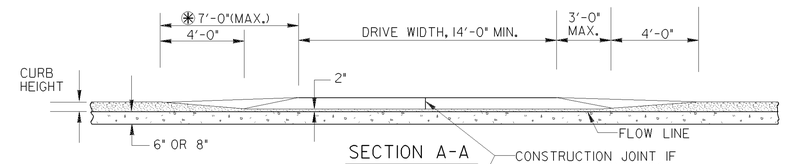
DOWELED CURB DETAIL

GENERAL NOTES:

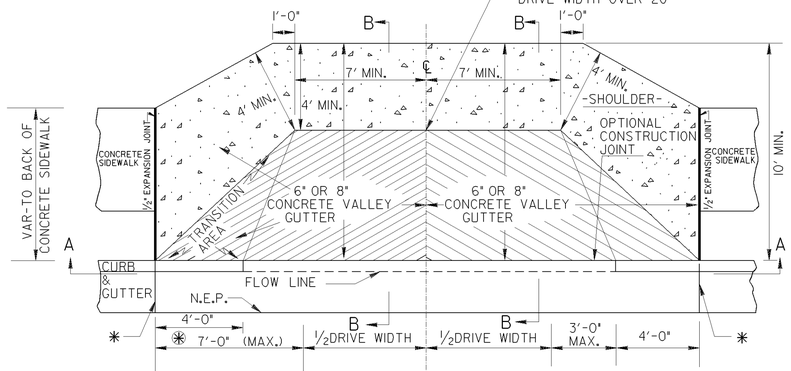
1. QUANTITIES SHALL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY---
   LIN. FT. OF CURB & GUTTER SHALL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER SHALL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY---
   LIN. FT. OF CURB SHALL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OR THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E, ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND PAVED TO THE RIGHT OF WAY LINE.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS SHALL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS SHALL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8% (12:1) WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.



SECTION A-A



✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED AT BACK OF THE CURB.

HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.
℄

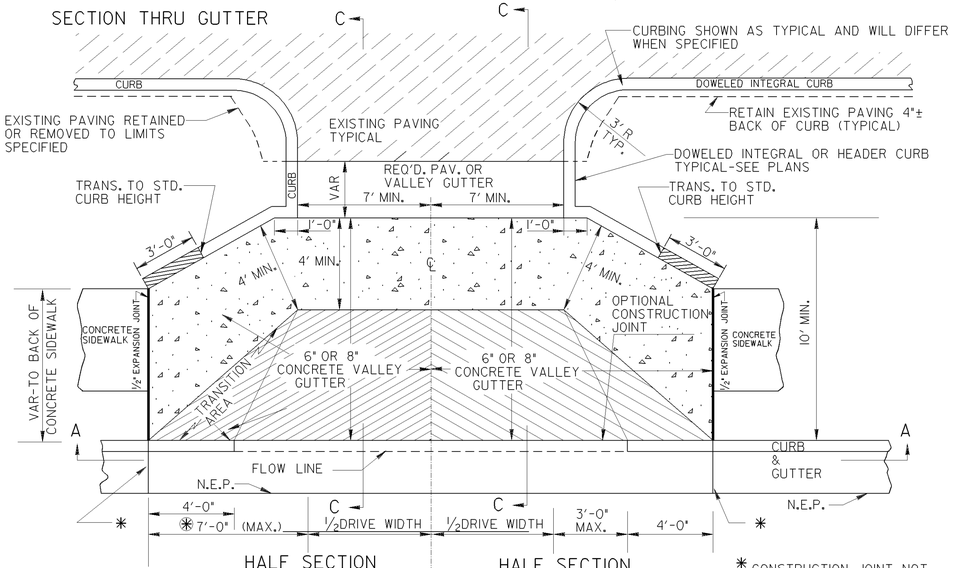
PLAN

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.
℄

PLAN

HALF SECTION

PLAN
(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

DRIVEWAY WITH CURB ISLAND

✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

✱ 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

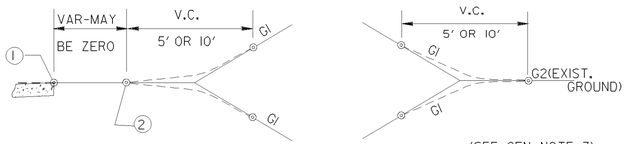
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: ① AND ② MAY COINCIDE

V.C.	MAXIMUM CUT	MAXIMUM FILL
5'	27%	16.67%
10'	28%	27%

V.C.	GI-G2 (MAX. ALGEBRAIC GRADE CHANGE) SAG	GI-G2 (MAX. ALGEBRAIC GRADE CHANGE) CREST
5'	21%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050

BY	REVISION	DATE
GLO	REV. PAVEMENT NOTES, REV. 12' TO 14' MIN., REV. SWALK	7-21-11
	REVISED	4-11-02
	REVISED	4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

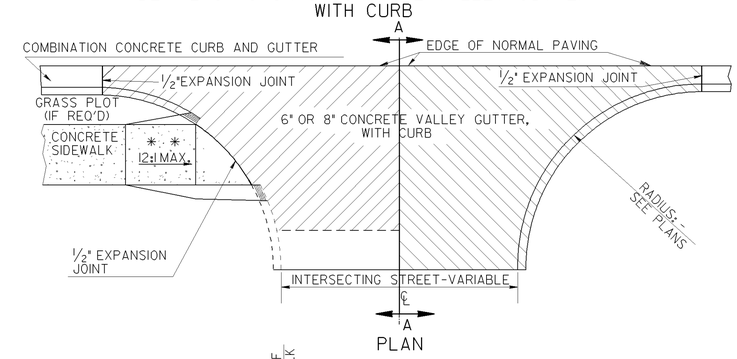
CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

NUMBER 40-0001 AI

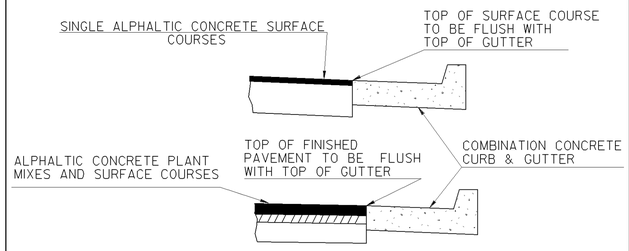
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER WITH CURB

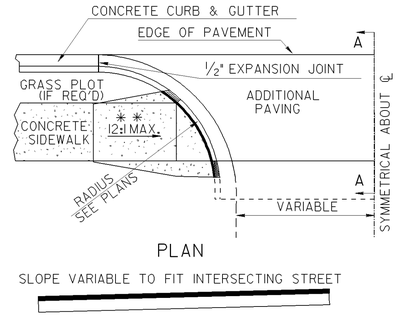


**SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF PLACING PAVEMENT ADJACENT TO GUTTER



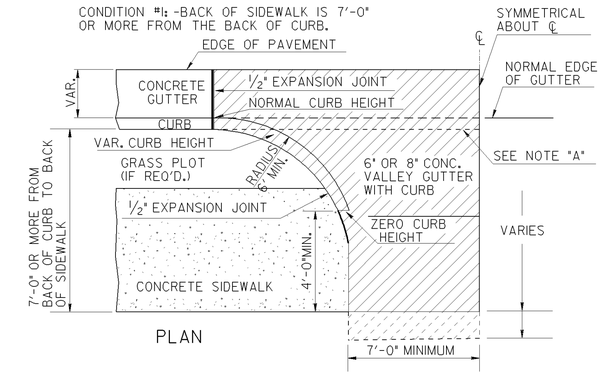
DETAIL OF ADDITIONAL PAVING AT STREET INTERSECTION



NOTE:
ADDITIONAL PAVING TO EXTEND TO END OF RETURN WHEN NO CONCRETE SIDEWALK IS SET UP.

**SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER WITHOUT CURB

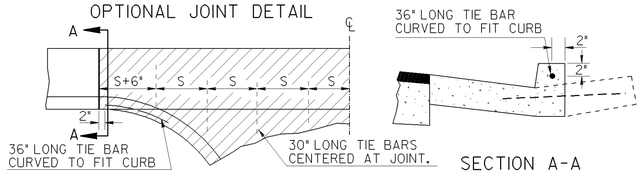


CONDITION #1-BACK OF SIDEWALK IS 7'-0" OR MORE FROM BACK OF CURB.

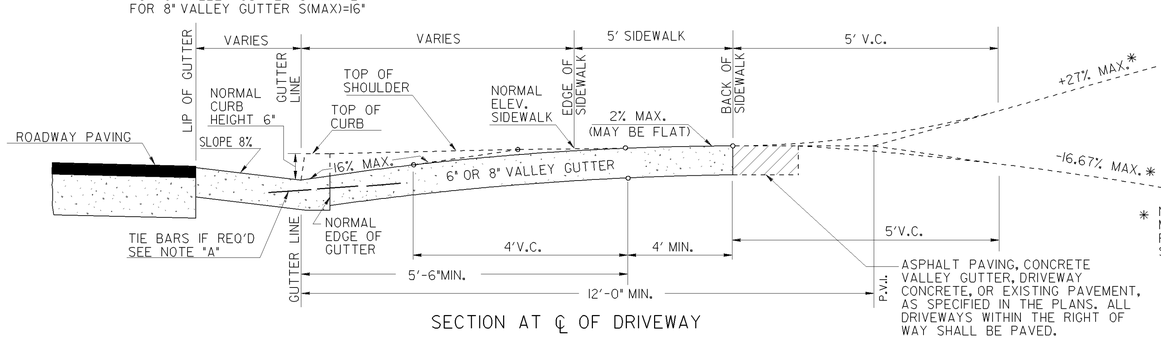
ZERO CURB HT. TO BE A MINIMUM OF 3'-2" FROM GUTTER LINE. IF CURB TRANSITION EXTENDS PAST EDGE OF SIDEWALK. THE TOP OF THE VARIABLE HEIGHT CURB IS TO REMAIN FLUSH WITH THE TOP OF THE SIDEWALK THROUGHT OUT TRANSITION. ZERO CURB HEIGHT WILL BE A MINIMUM OF 4'-0" FROM BACK OF SIDEWALK.

NOTE: "A"
CONSTRUCTION JOINT OPTIONAL: -WHEN IMPLEMENTED #4 TIE BARS WILL BE REQUIRED AS SHOWN BELOW TO BE INCLUDED IN UNIT PRICE FOR VALLEY GUTTER. IF CURB IS POURED THROUGH VALLEY GUTTER, THE TOP PORTION WILL BE REMOVED BEFORE SETTING TO MATCH GRADE OF VALLEY GUTTER.

OPTIONAL JOINT DETAIL



FOR 6" VALLEY GUTTER S(MAX)=24"
FOR 8" VALLEY GUTTER S(MAX)=16"

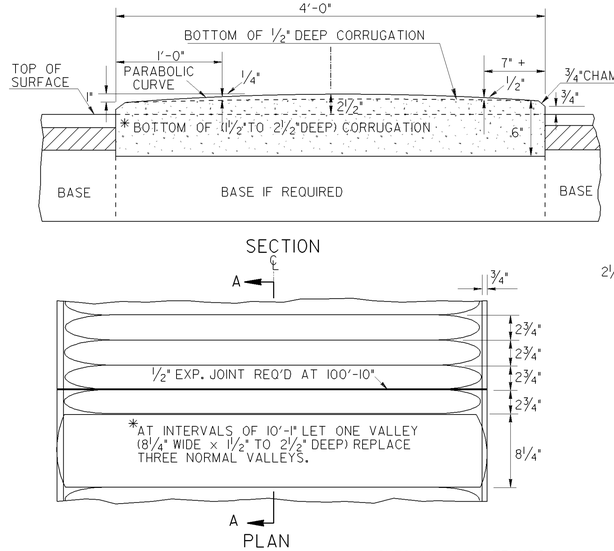


*PERCENTAGE OF ASCENDING GRADE MAY BE INCREASED AT A DISTANCE OF 23' FROM THE GUTTER LINE.

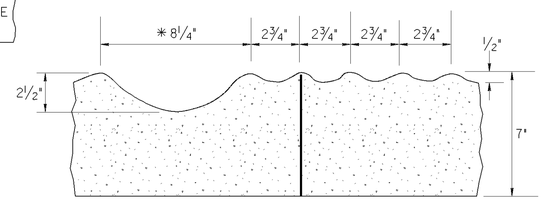
*PERCENTAGE DESCENDING GRADE MAY BE INCREASED AT A DISTANCE 18' FROM THE GUTTER LINE.

* NOTE:
MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

DETAIL OF 4' CORRUGATED CONCRETE MEDIAN



*APPLIES ONLY TO SUPERELEVATED CURVES, INCLUDING TRANSITIONS.



SEE SPECIAL DETAILS FOR DETAILS OF CONCRETE SIDEWALK.

This Detail Replaces Ga Standard 9031J

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

BY	REVISION	DATE
GLO	ADDED PAVEMENT NOTE, REV. DRIVEWAY SECTION	7-21-11
GLO	REV. PAVEMENT NOTES	2-21-03
	REVISED	4-11-02
	REVISED	4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

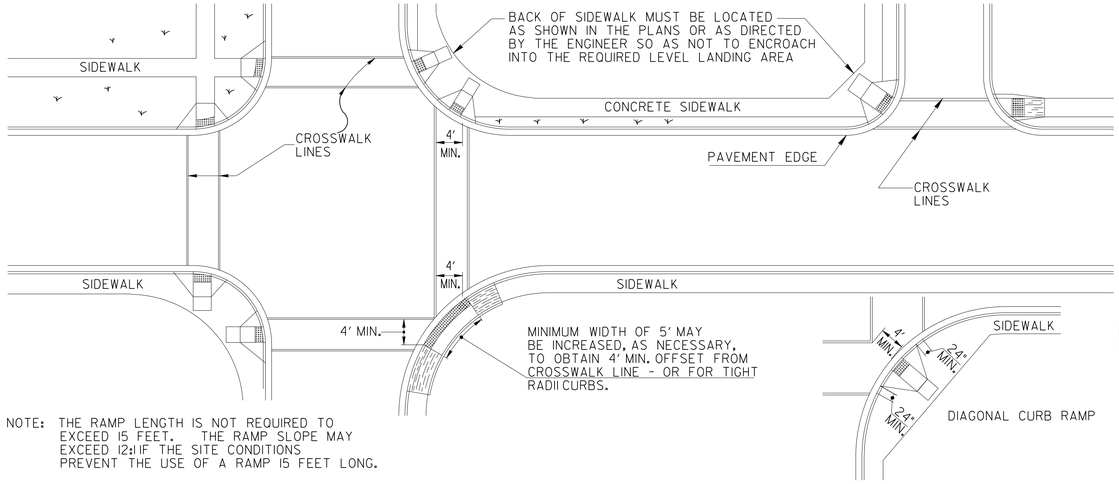
CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION
4' CORRUGATED CONCRETE MEDIAN

NO SCALE — MARCH 12, 2002

NUMBER 40-0002 A2

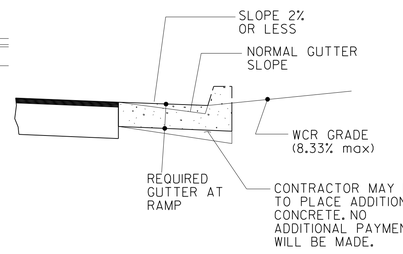
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

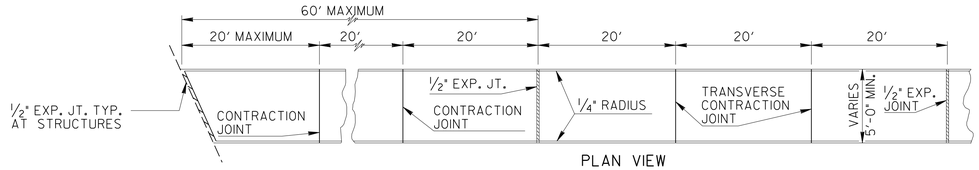


NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

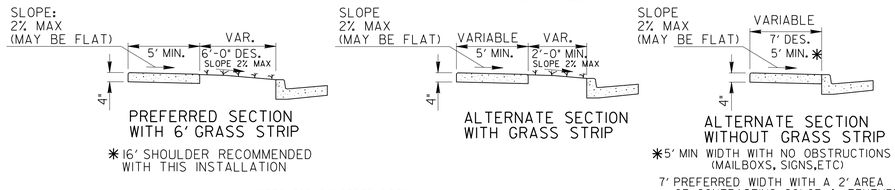
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS



PLAN VIEW



NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT. THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

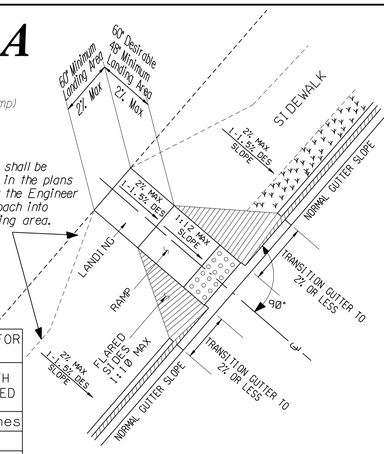
Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

Type A

(Perpendicular)

(The Preferred Ramp)

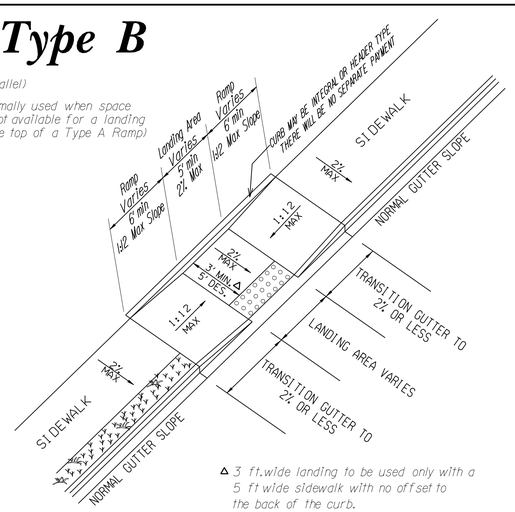


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B

(Parallel)

(Normally used when space is not available for a landing at the top of a Type A Ramp)

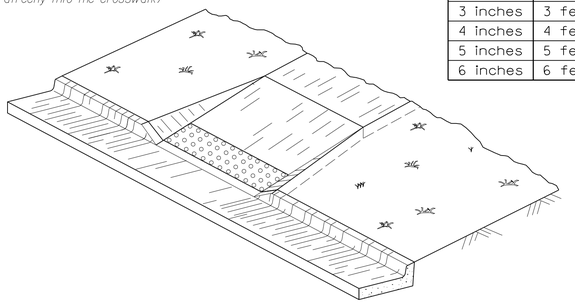


Δ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

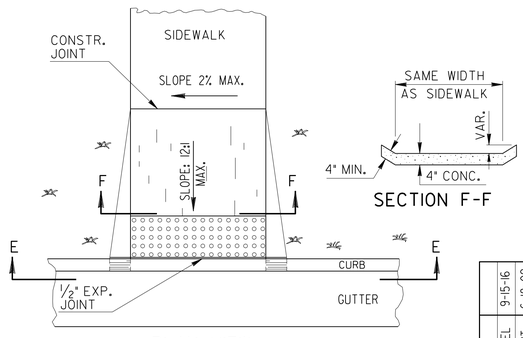
(Perpendicular)

(Normally used when the sidewalk ties directly into the crosswalk)



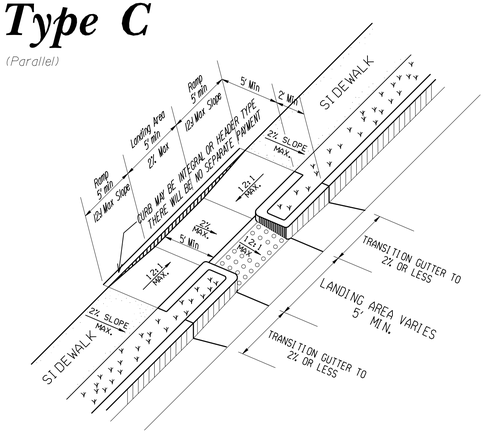
LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet

IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.



Type C

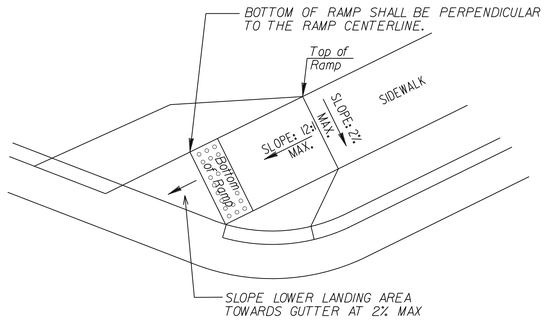
(Parallel)



Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



DATE	REVISION
9-15-16	ADDED PERP. OR PARALLEL
6-18-09	REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1 CHART.
	ADDED GEN. NOTE NO. 8.
5-10-06	REV. TRUNCATED DOMES
2-21-03	REVISED
2-10-03	REVISED
7-29-02	REVISED
5-29-02	REVISED
5-23-02	REVISED
5-13-02	REVISED
4-29-02	REVISED
4-11-02	REVISED
4-3-02	REVISED
3-28-02	REVISED

CJB GLO GLO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

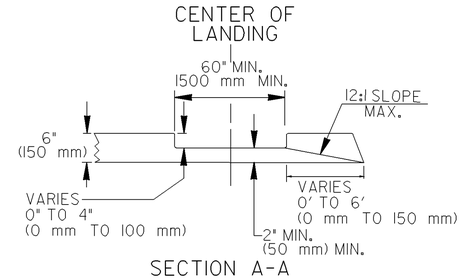
SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE MARCH 12, 2002

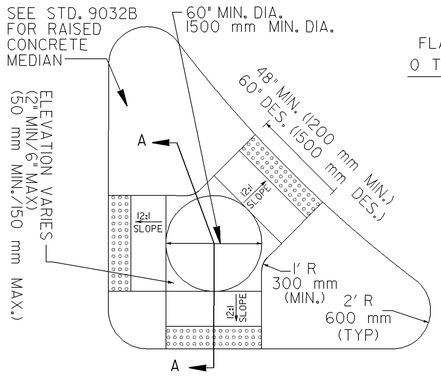
40-0003

NUMBER A3

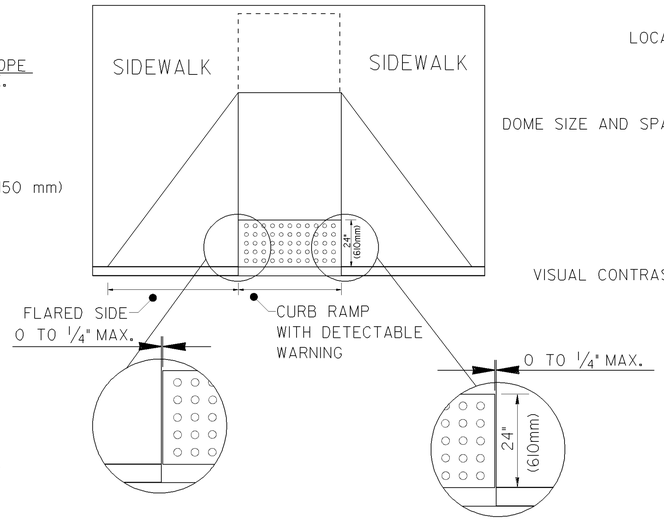
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

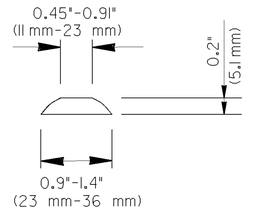
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

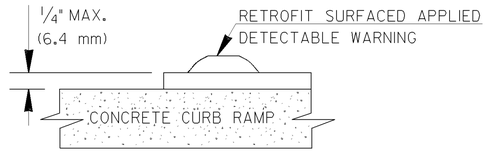
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

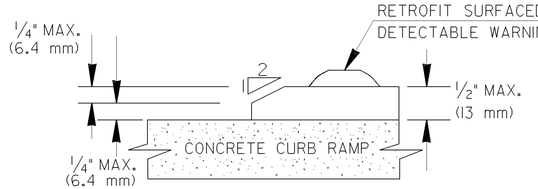
GENERAL NOTES:

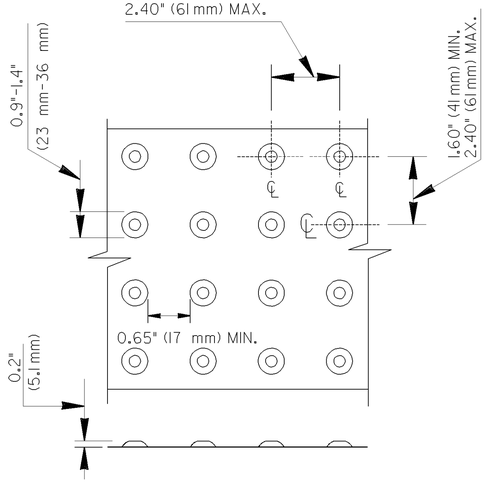
RETROFIT SURFACED APPLIED MATERIALS ONLY:

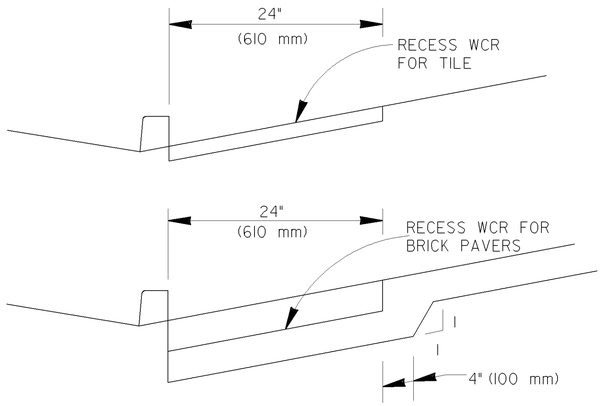
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.



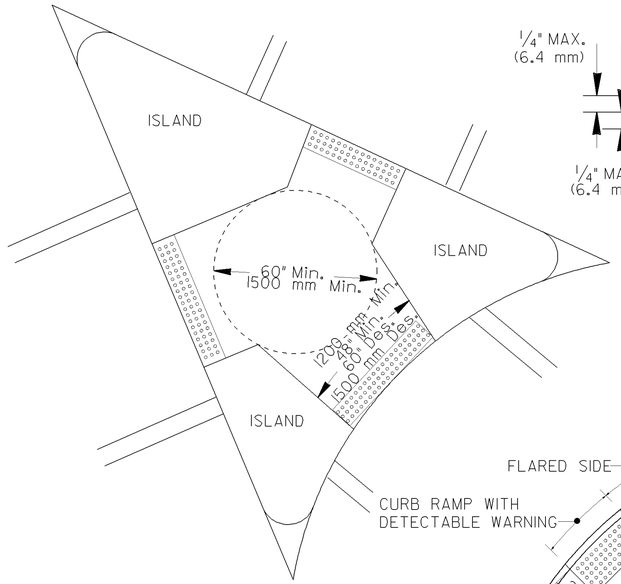


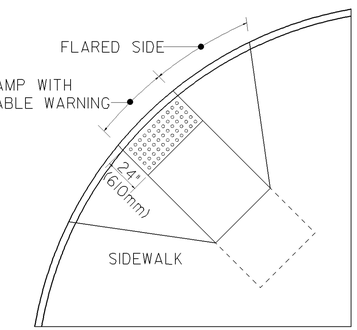






FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

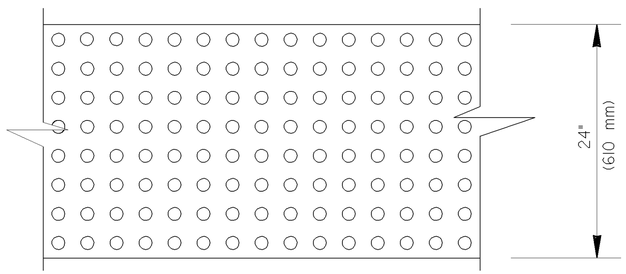




DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.



BY	DATE	REVISION
GLO	6-18-09	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES
GLO	10-2-06	ADDED TOLERANCE TO DTL.
GLO	5-10-06	REVISEDTUNCATED DOMES AND NOTES.
	11-14-02	REVISED
	7-29-02	REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

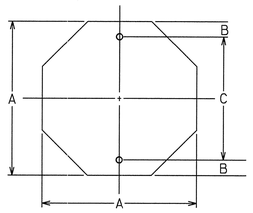
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

40-0004

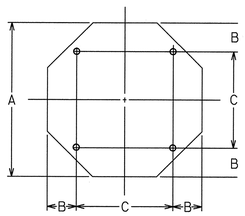
NUMBER A4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

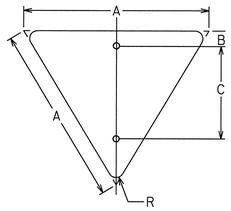


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

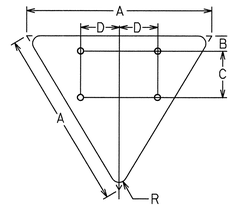


A	B	C
48	9	30

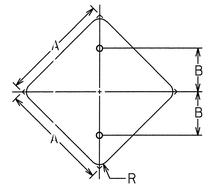


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

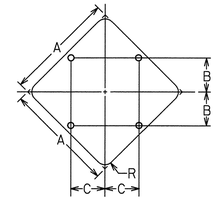


A	B	C	D	R
60	3	18	15	3



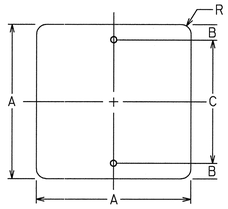
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



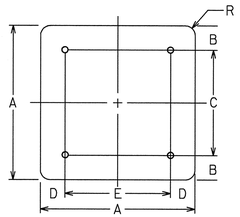
A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

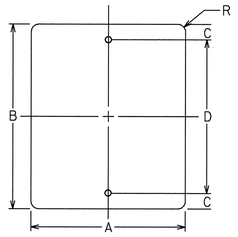


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

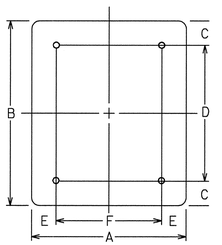


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

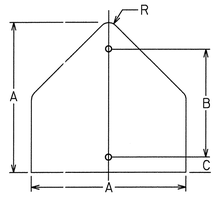


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

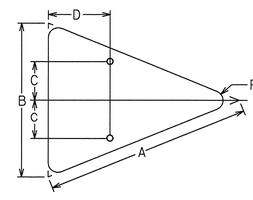


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



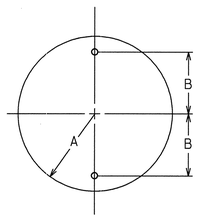
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



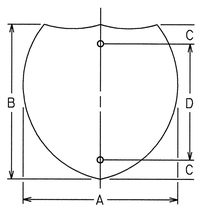
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



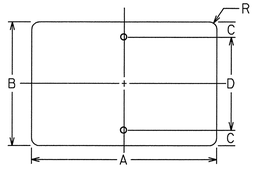
CIRCLE

A	B
15	12
18	15

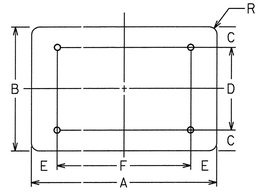


INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



HORIZONTAL RECTANGLE

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

40-0005

DATE	REVISIONS

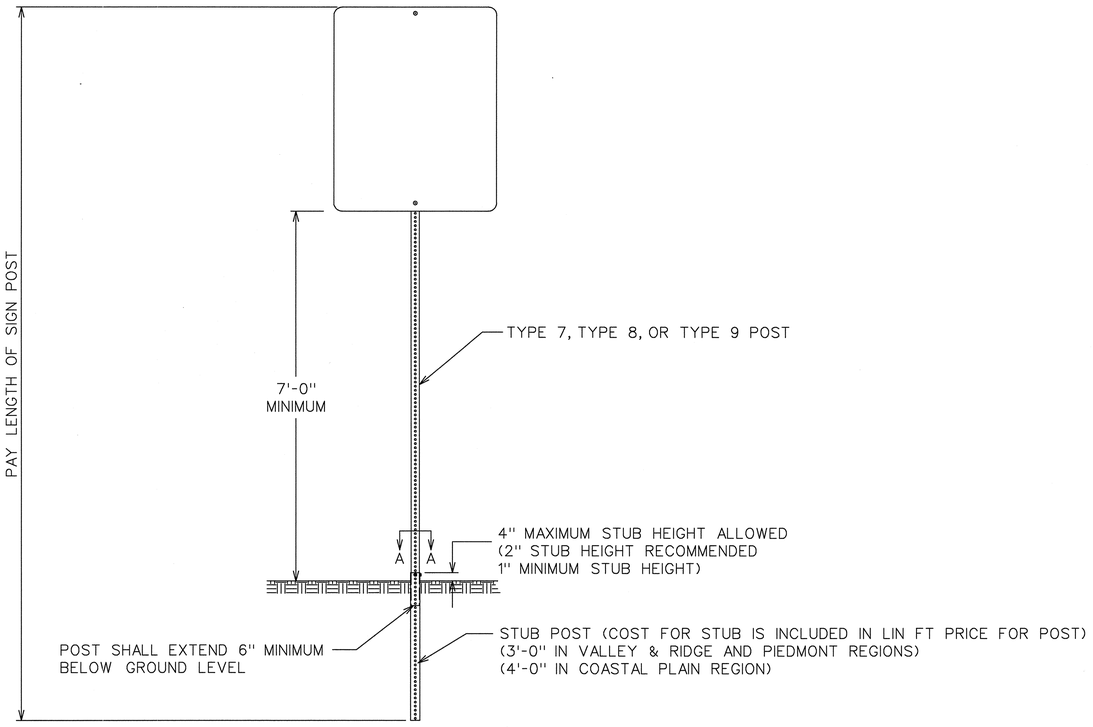
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
SIGN PLATES

NO SCALE JANUARY 2000

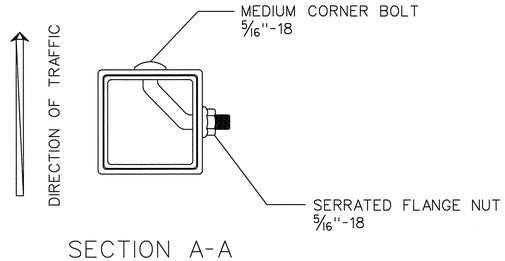
...\100sign plates.dgn Jul. 03, 2000 16:10:10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert× 2-1/2" 12 ga. W/2-1/4" 14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

× TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

40-0006

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

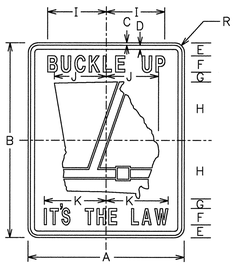
NO SCALE JULY 2002

T-3A

PCBDTB

...\t03dpost789.dgn Jul. 03, 2003 16:10:11

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

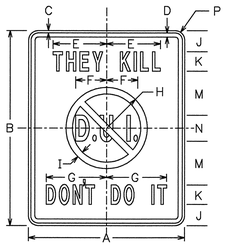


R560-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	I	J	K	R
MIN & STD	30	36	1/2	3/4	2 1/2	3C	1 1/2	11	8 1/2	10	11	1 7/8
FWY	48	60	3/4	1 1/4	4	5C	3	18	15 1/2	16	18	3

COLORS

STATE SHIELD & BORDER - RED (REFL)
LEGEND & BELT - BLACK (NON-REFL)
BACKGROUND - WHITE (REFL)

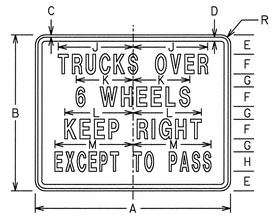


R560-2

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
MIN & STD	30	36	1/2	3/4	11	5	12 1/2	7 1/2	1 1/4	4	4C	3	4 1/2	5C	1 7/8
FWY	48	60	3/4	1 1/4	16 1/2	9 1/2	18 1/2	12 1/2	2	6 1/2	6C	5	8 1/2	8C	3

COLORS

CIRCLE & DIAGONAL - RED (REFL)
LEGEND & BORDER - BLACK (NON-REFL)
BACKGROUND - WHITE (REFL)

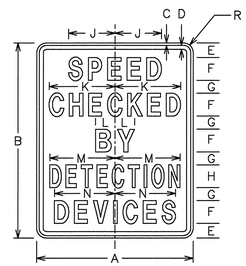


R560-3

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2 C	3	3 1/2 B	14	10	11 1/2	14 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6B	23	17 1/2	21	24	3

COLORS

LEGEND & BORDER - BLACK (NON-REFL)
BACKGROUND - WHITE -(REFL)



I550-1

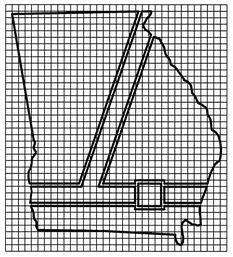
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N	R
MIN & STD	30	36	1/2	3/4	4	4D	2	4C	8 3/16	11 5/8	3 7/16	11 7/16	10 5/8	1 7/8
FWY	48	60	3/4	1 1/4	4 1/2	7D	4	7C	14 5/16	20 3/16	6	20	18 5/16	3

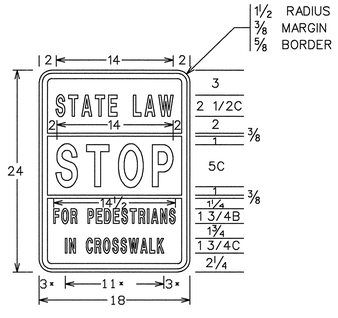
COLORS

LEGEND & BORDER - BLACK (NON-REFL)
BACKGROUND - WHITE (REFL)

THE I550-1 SIGN SHALL BE ERECTED:

1. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHICH INTERSECTS THE STATE LINE,
2. AT THE TERMINI OF EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM WHICH BEGINS OR ENDS WITHIN THE STATE BOUNDARIES,
3. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FROM OUTSIDE THE COUNTY FIRST ENTERS A COUNTY THAT HAS A PERMIT TO OPERATE SPEED DETERCTION DEVICES, AND
4. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FIRST ENTERS THE CORPORATE LIMITS OF ANY MUNICIPALITY THAT HAS A PERMIT TO OPERATE SPEED DETECTION DEVICES.

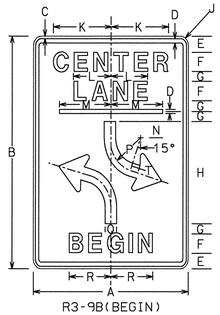




R560-5

COLORS

LEGEND & BORDER-BLACK (NON-REFL)
WORD "STOP" -RED (REFL)
BACKGROUND -WHITE (REFL)



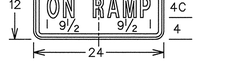
R3-9B(BEGIN)

R3-9B(END)

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
STD & MIN	24	36	3/8	5/8	2 1/2	3E	1 1/2	16	1 1/2	8 7/16	5 3/4	8	2 1/2	6	2	6 7/16	4 3/16	1 1/2
SPECIAL	36	48	5/8	7/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/16	9 1/2	12	3	8	3	7 11/16	4 5/16	2

COLORS

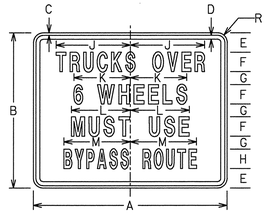
LEGEND & BORDER - BLACK (NON-REFL)
BACKGROUND -WHITE (REFL)



R8-3aP

COLORS

LEGEND & BORDER - RED (REFL)
BACKGROUND - WHITE (REFL)



R560-4

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2 C	3	3 1/2 B	14	10	12 1/2	17 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6C	23	17 1/2	17 1/2	25 1/2	3

COLORS

LEGEND & BORDER - BLACK (NON-REFL)
BACKGROUND -WHITE (REFL)

40-0007

DATE	REVISIONS
5-24-00	ADDED R9-8 DETAIL
1-21-03	DELETED R1-4 SIGNS
1-21-03	REV SIGN CODES FOR R3-9 SIGNS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

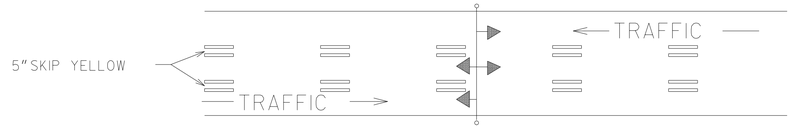
DETAILS OF
REGULATORY SIGNS
SHEET 1 OF 2

NO SCALE JANUARY 2000

PCBDTB

...\tds\regulatory signs 1 of 2.dgn JAN. 03, 2003 16:10:13

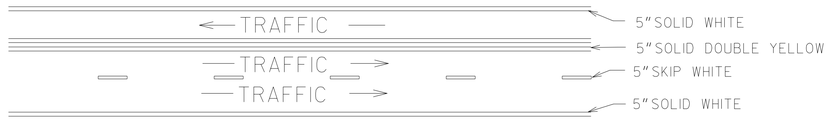
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

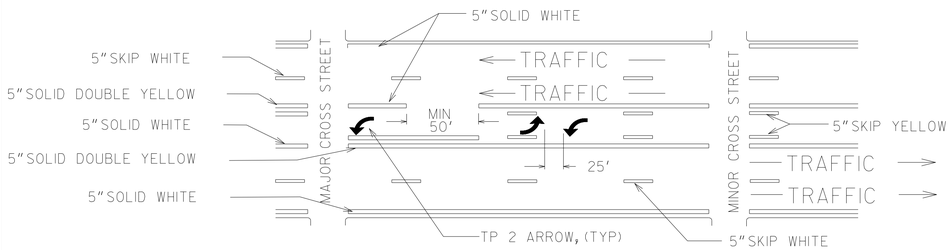
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

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

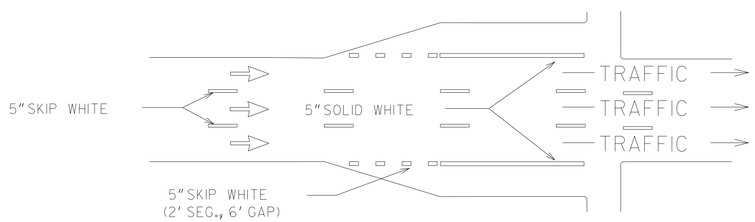


TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS

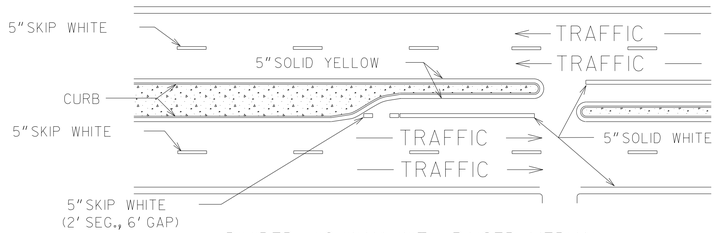
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



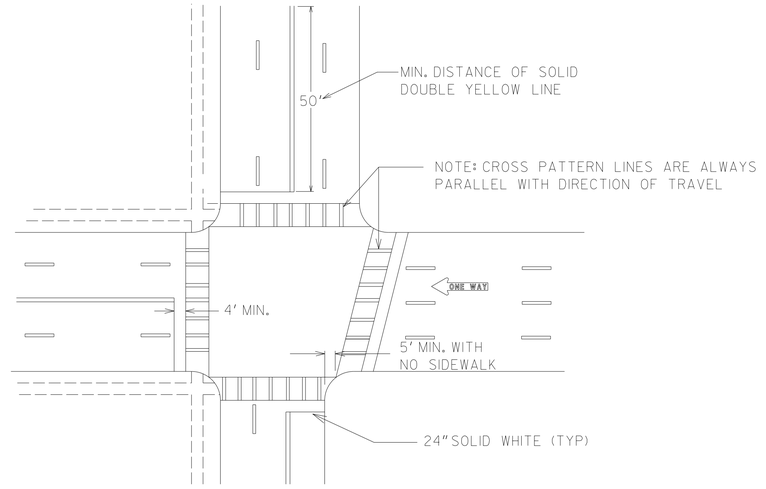
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



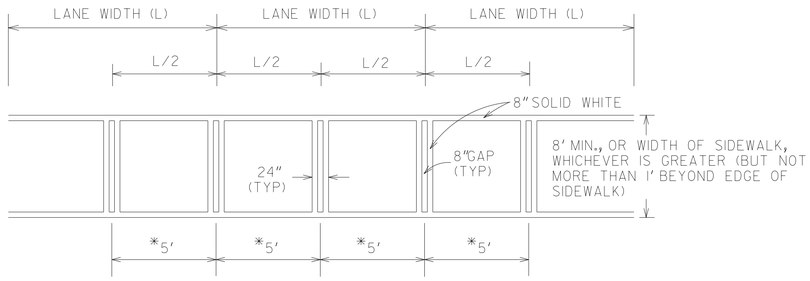
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



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

CROSSWALK DETAIL

GENERAL NOTES:

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

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY

NO SCALE — JANUARY 2000

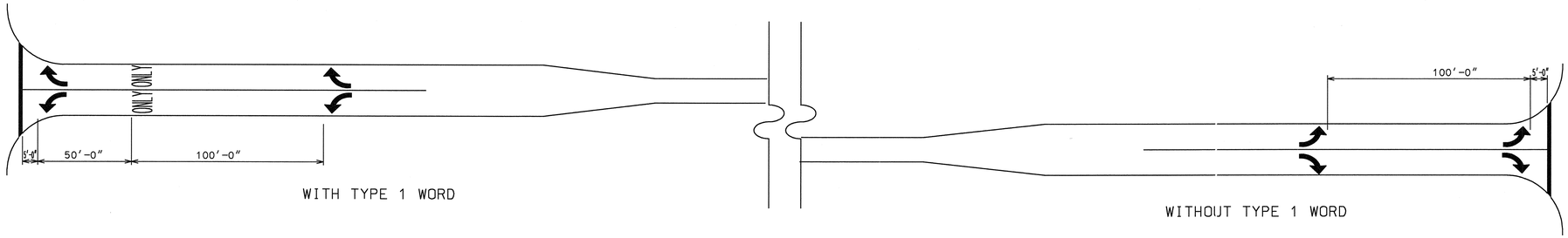
DESIGNED
DRAWN
TRACED
CHECKED

40-0008

NUMBER T-IIA

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

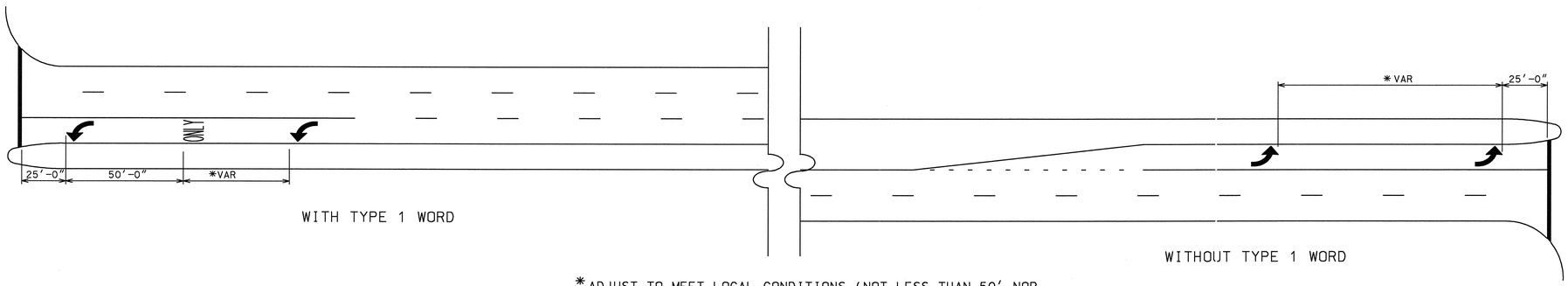
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

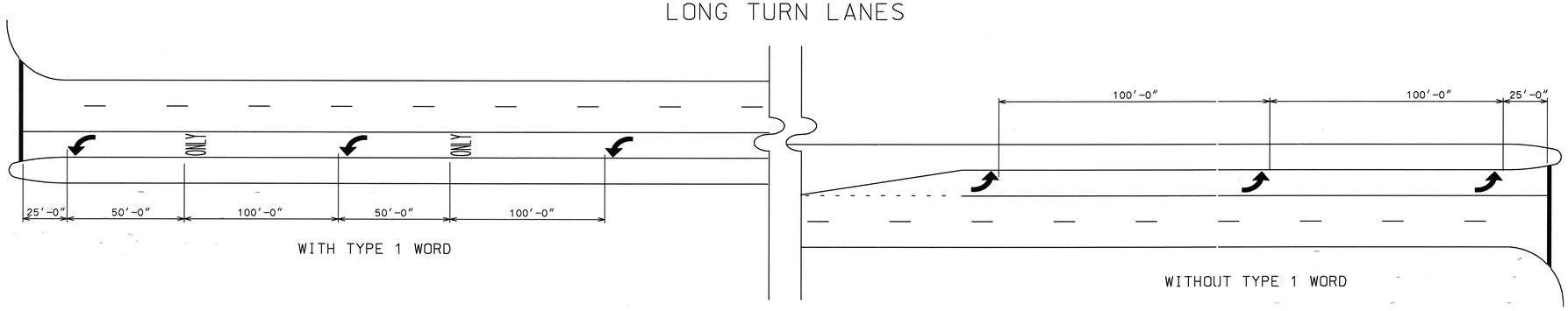


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

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

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

GENERAL NOTES:

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

40-0009

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING ARROW LOCATION

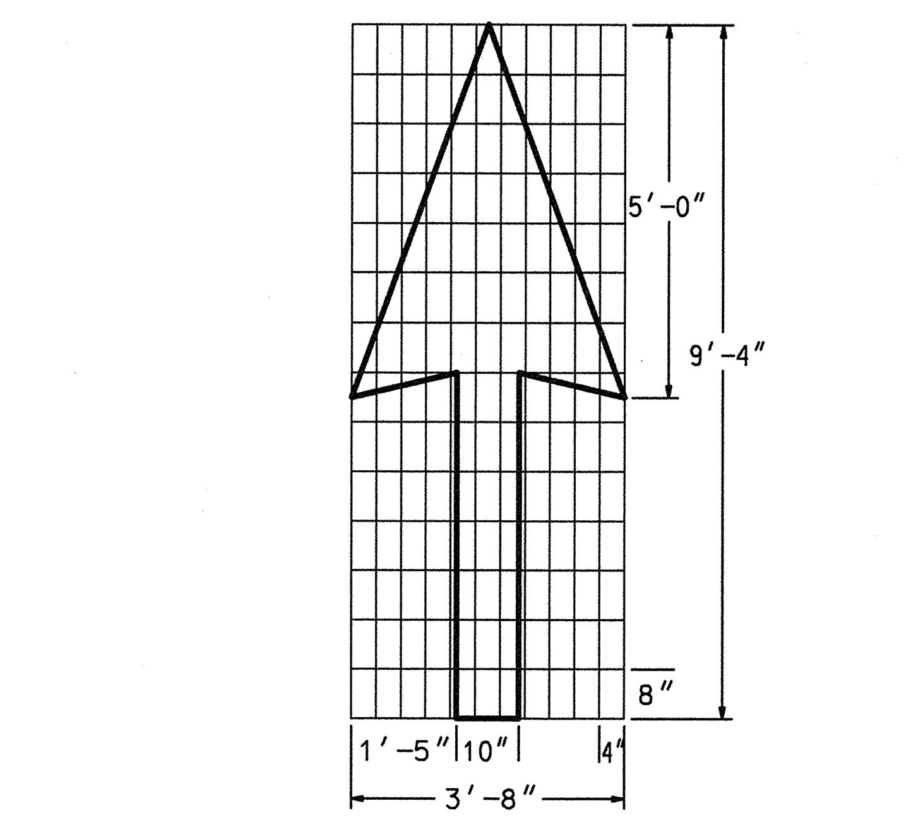
NO SCALE JANUARY 2000

T-12A

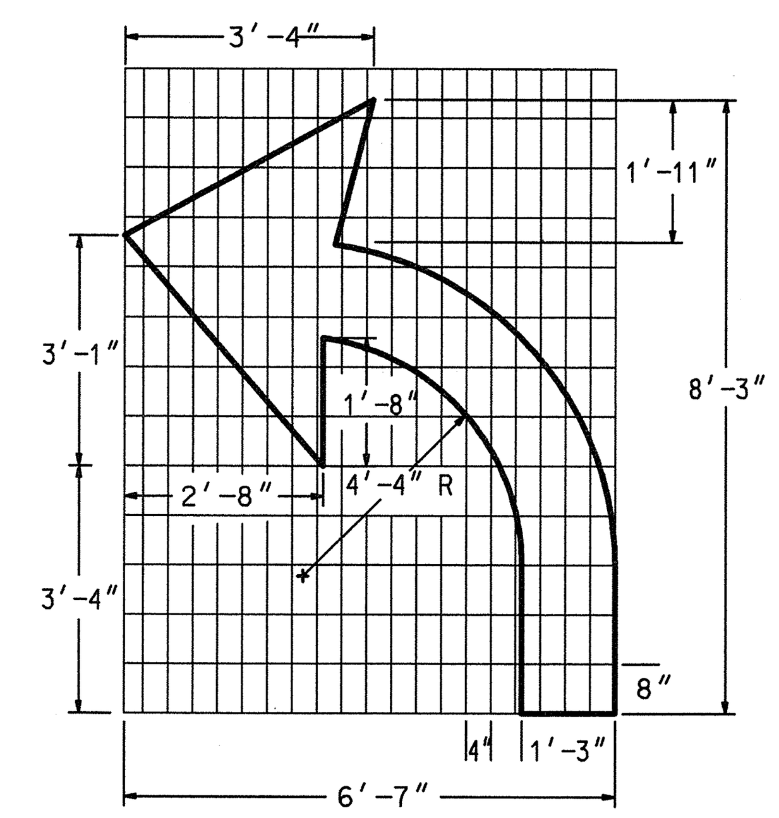
PCBDTB

...\t12arrow location.dgn Jul 03, 2003 16:10:15

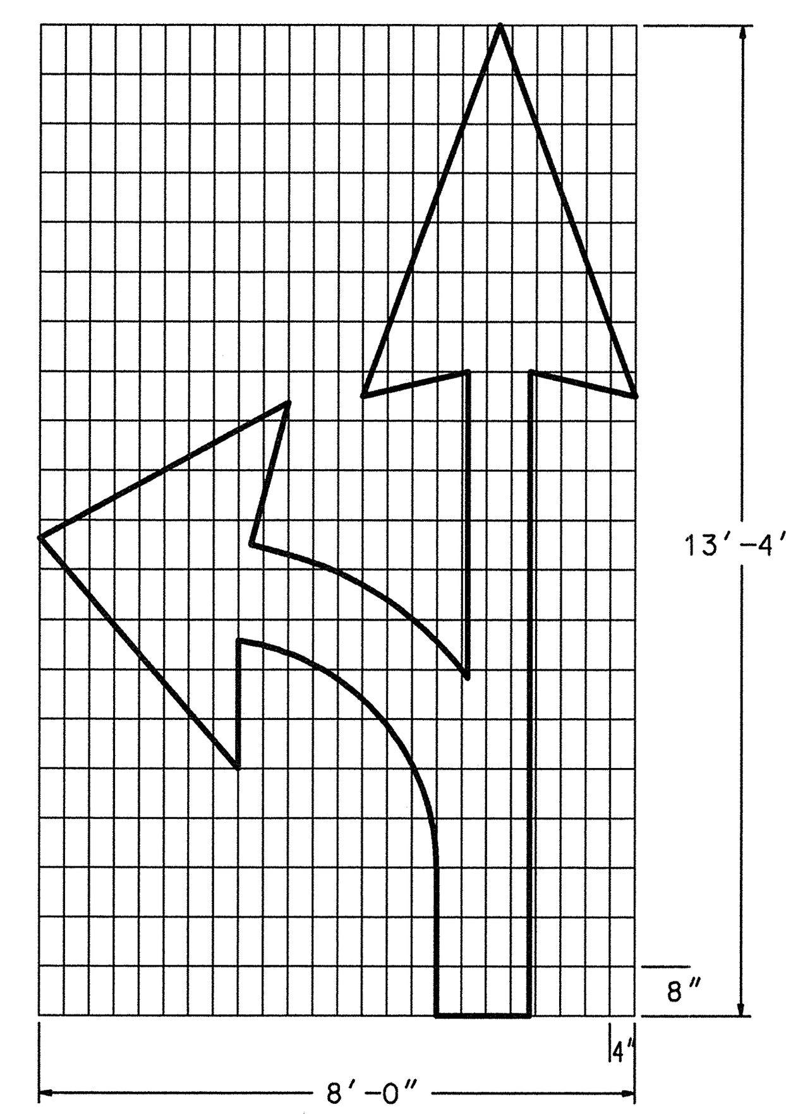
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



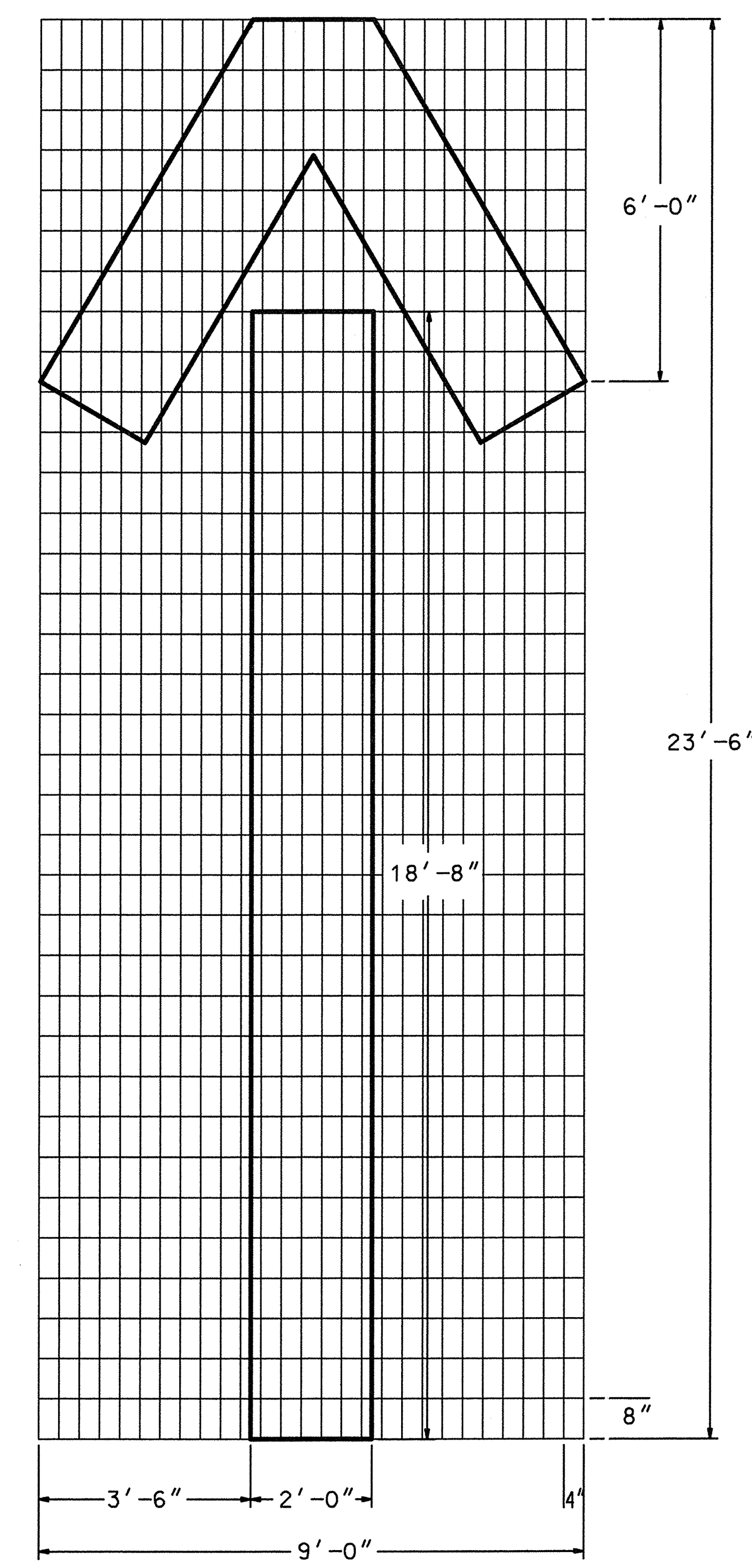
PAVEMENT MARKING, ARROW, TYPE 1
WHITE
(12.0 SQ. FT.)



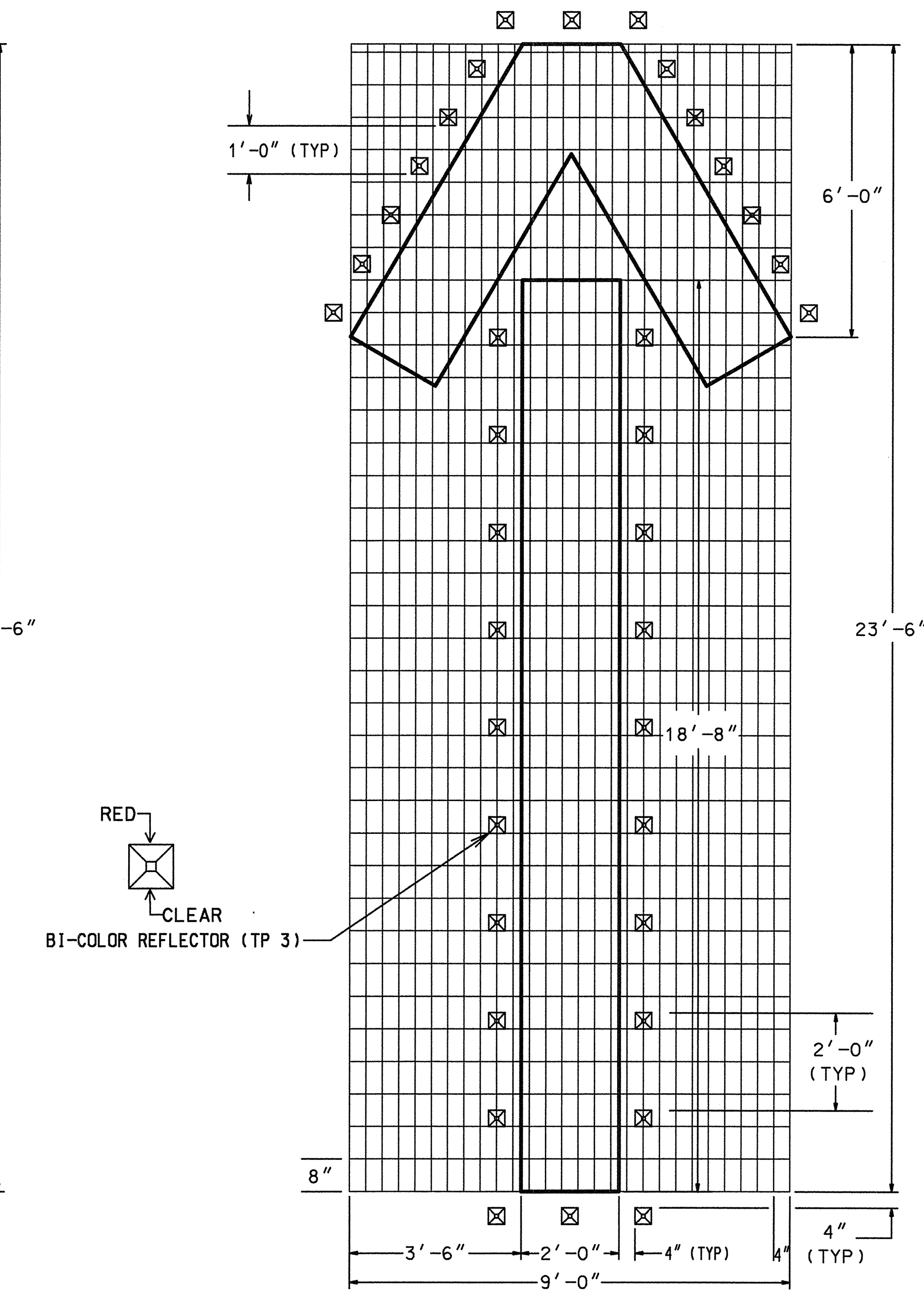
PAVEMENT MARKING, ARROW, TYPE 2
WHITE
(16.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 3
WHITE
(28.5 SQ. FT.)

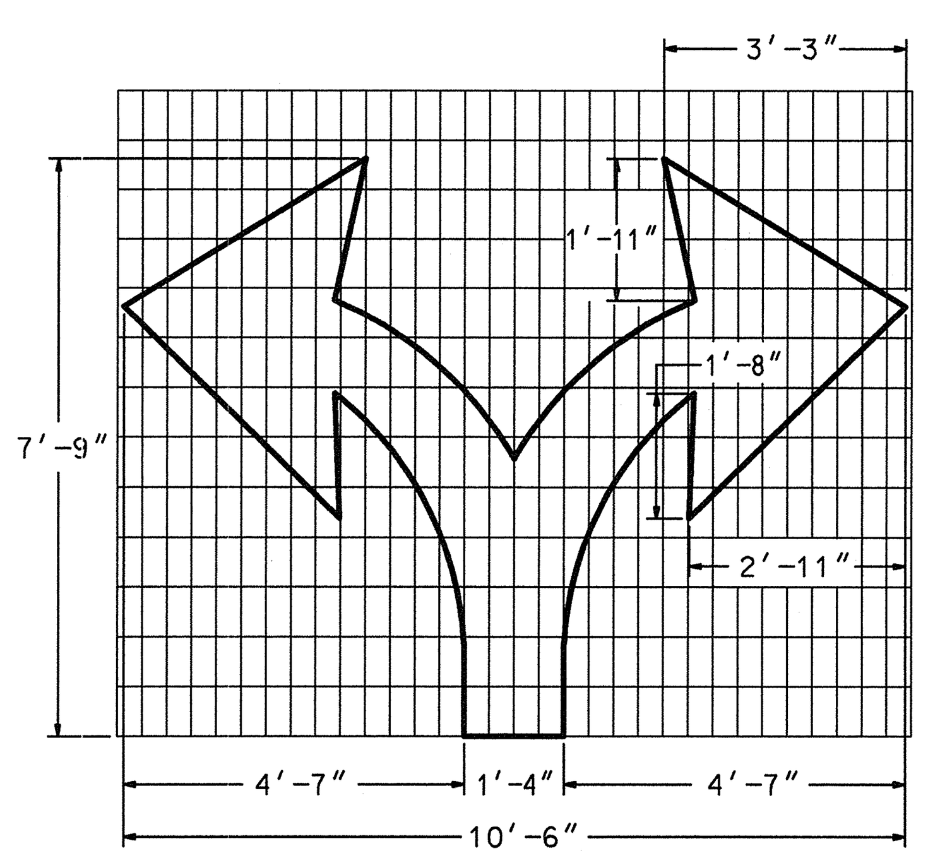


PAVEMENT MARKING, ARROW, TYPE 4
WHITE
(64.5 SQ. FT.)

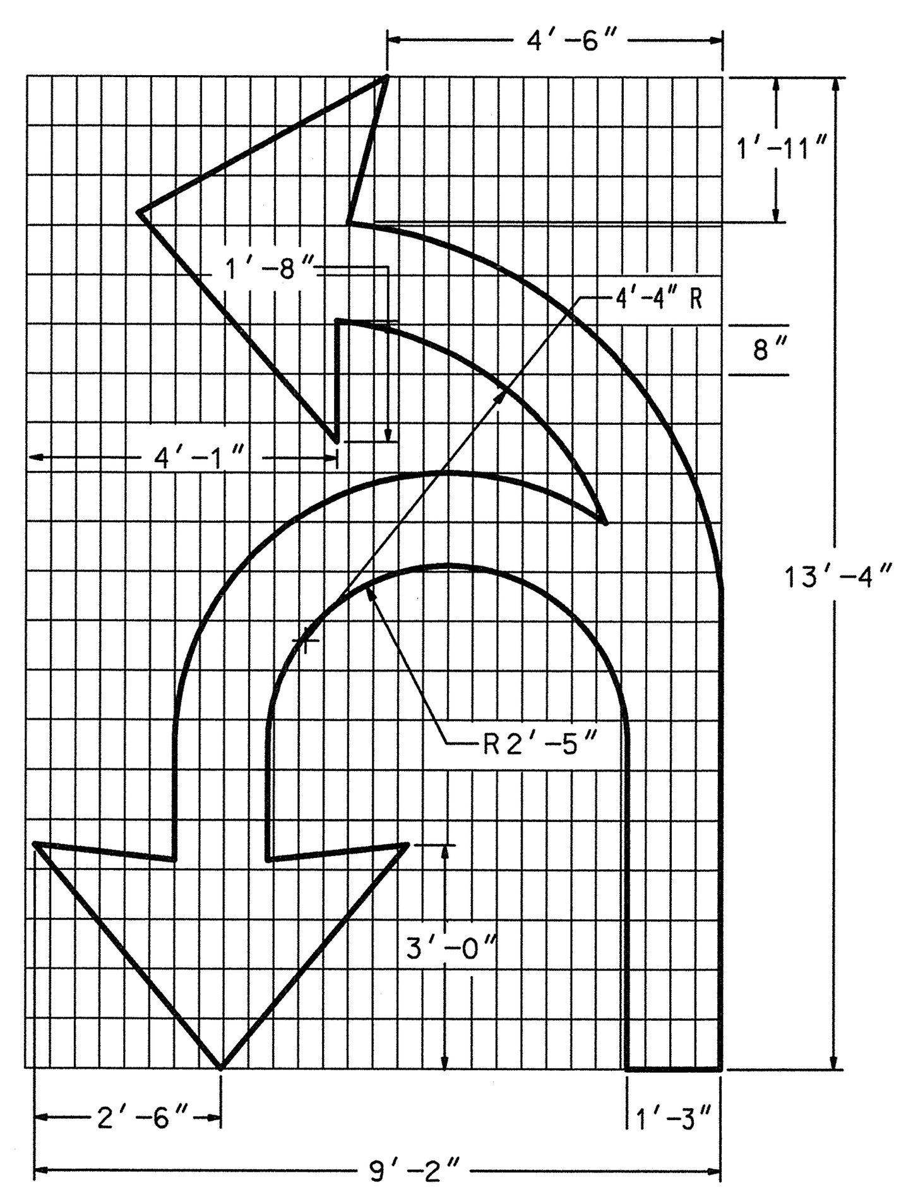


PAVEMENT MARKING, ARROW, WRONG WAY
WHITE
(64.5 SQ. FT.)

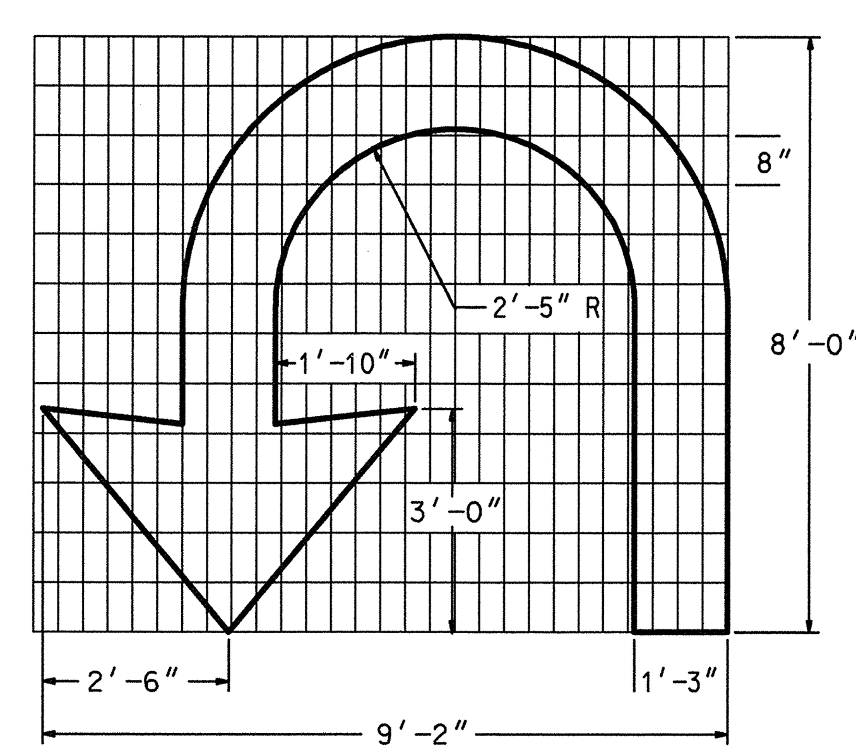
ARROW- WHITE REFLECTORIZED PAINT THERMOPLASTIC, AS SPECIFIED BY GEORGIA STANDARD SPECIFICATIONS, SECTION 655.



PAVEMENT MARKING, ARROW, TYPE 5
WHITE
(25.5 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 6
WHITE
(42.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 7
WHITE
(26.0 SQ. FT.)

40-0010

DATE	REVISIONS
4-11-00	CHANGED LOCATION OF RPMs ON WRONG WAY ARROW

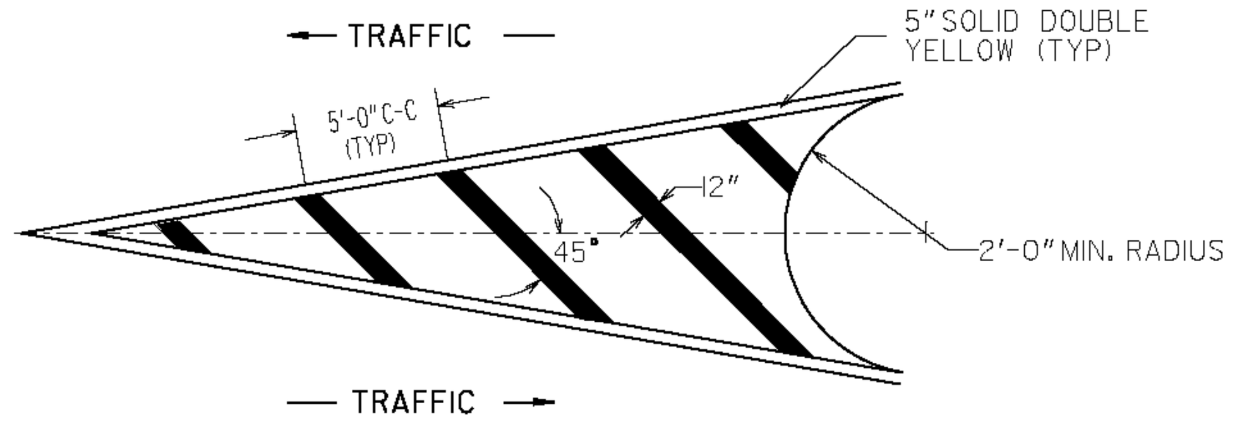
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKINGS-ARROWS

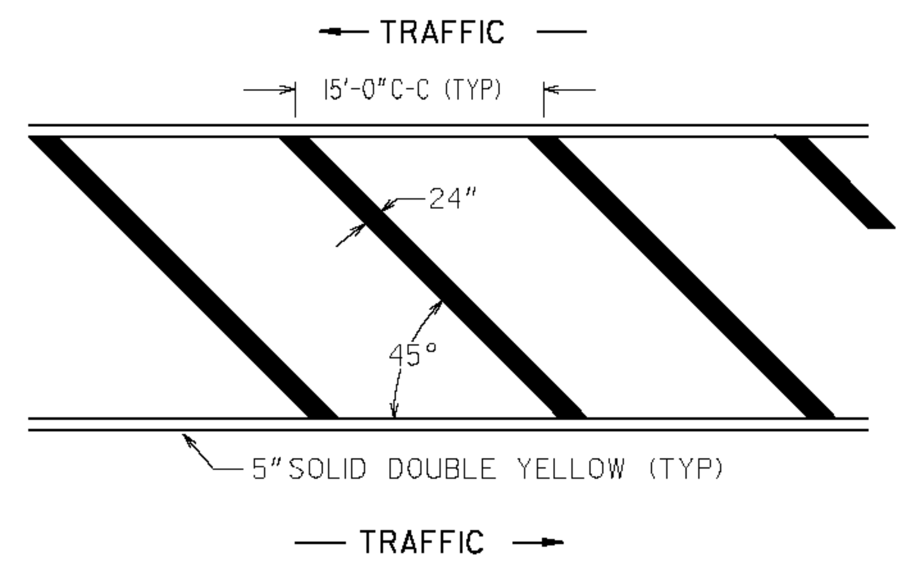
NO SCALE — JANUARY 2000

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	0008121/0012789		

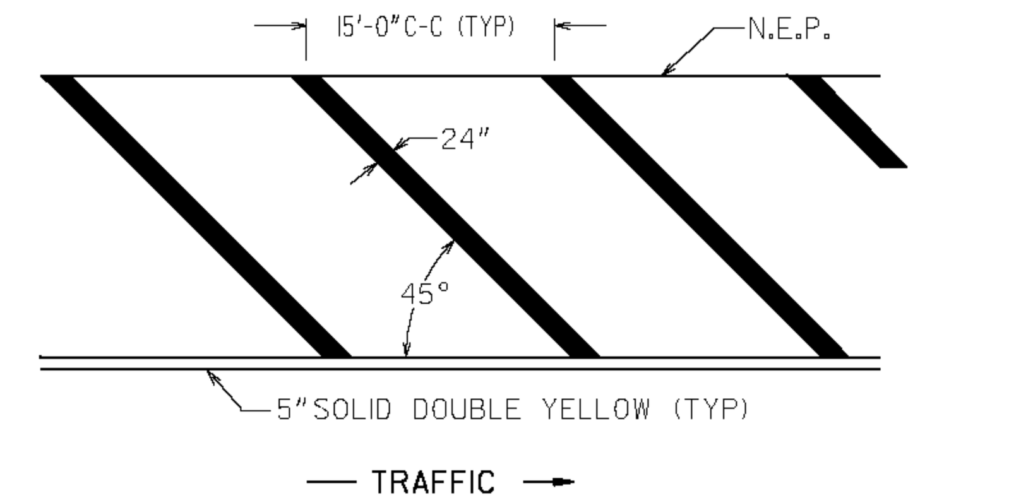
DETAIL "A" (YELLOW)



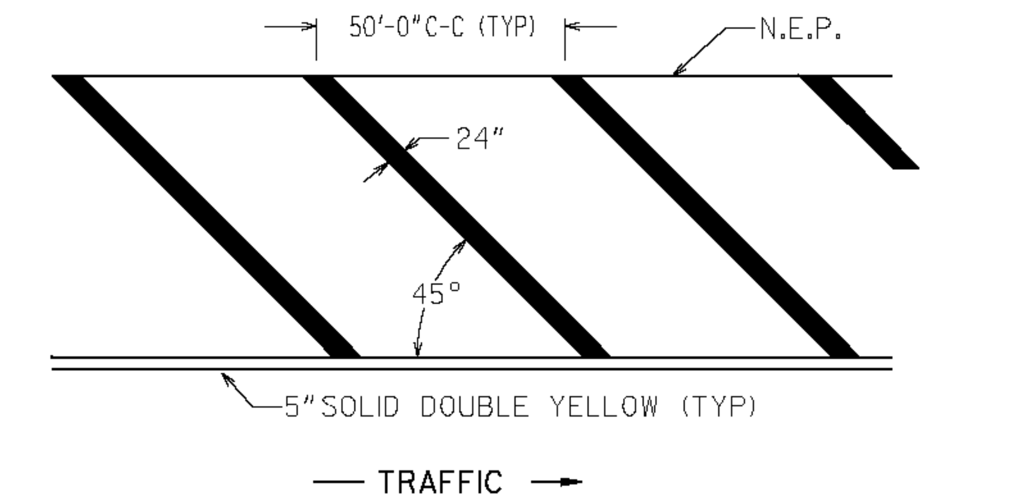
DETAIL "B" (YELLOW)



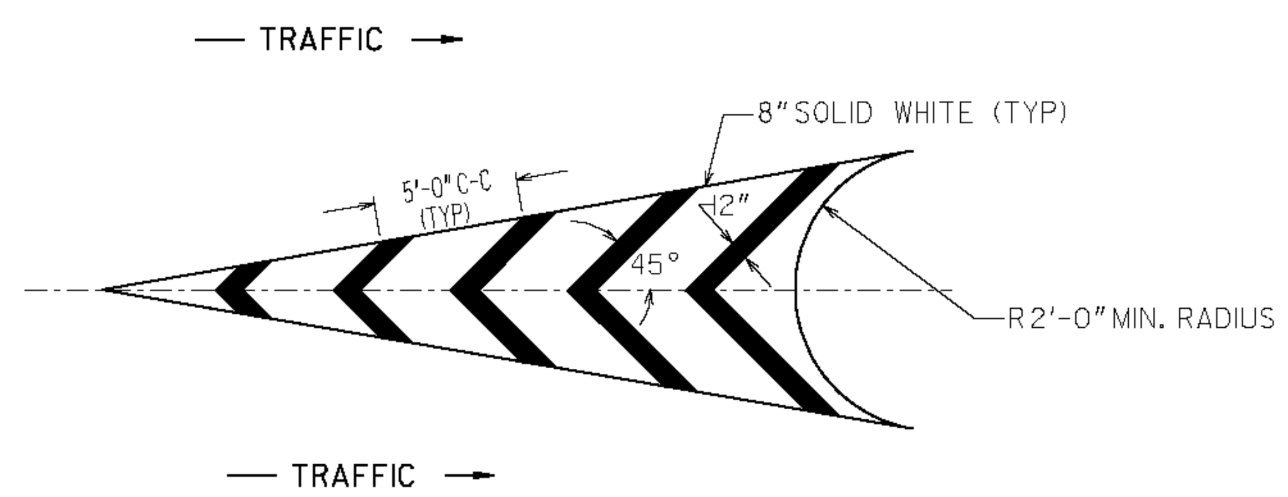
DETAIL "C" (YELLOW)



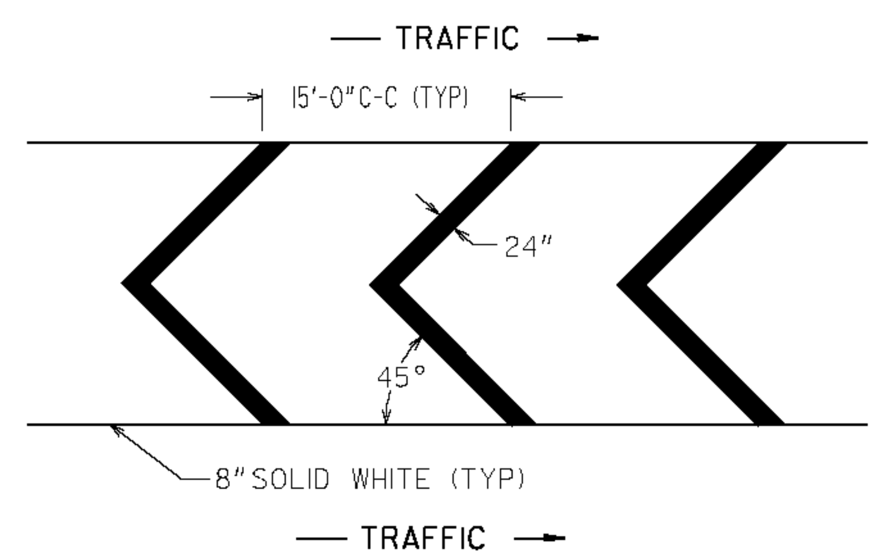
DETAIL "D" (YELLOW)



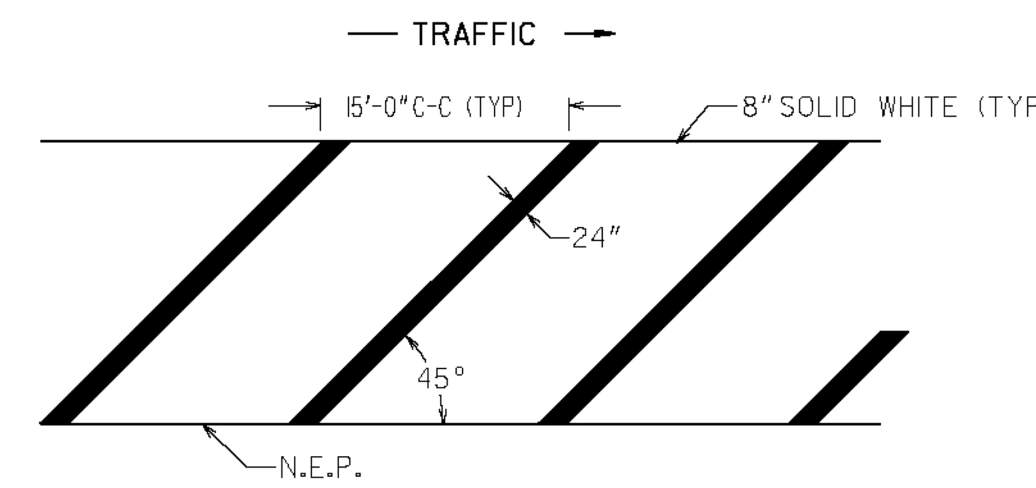
DETAIL "A" (WHITE)



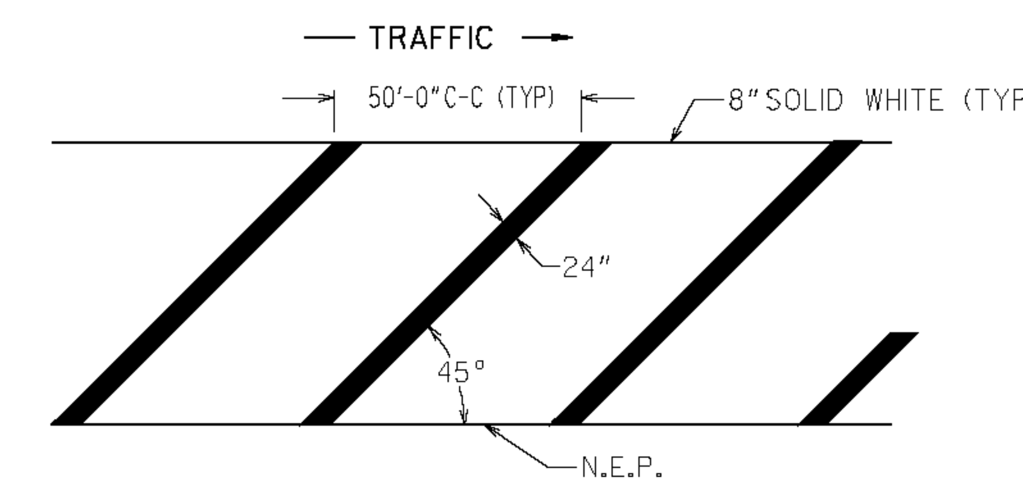
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

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

40-0011

GEORGIA DEPARTMENT OF TRANSPORTATION

- NO SCALE -

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

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

DETAIL OF PAVEMENT MARKING HATCHING

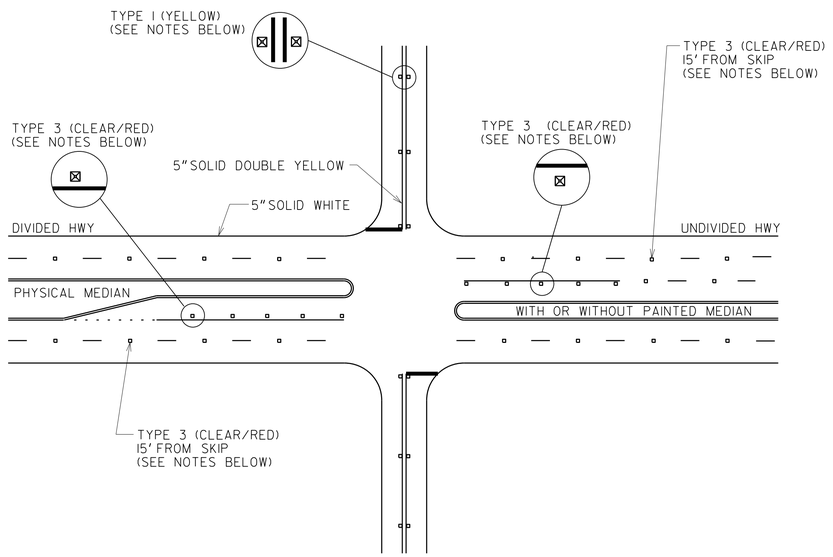
JANUARY 2000

T-14

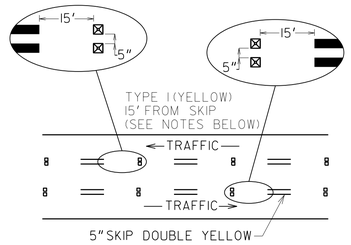
NUMBER T -14

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

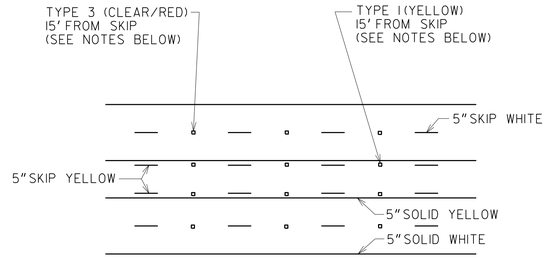
DIVIDED / UNDIVIDED HIGHWAY



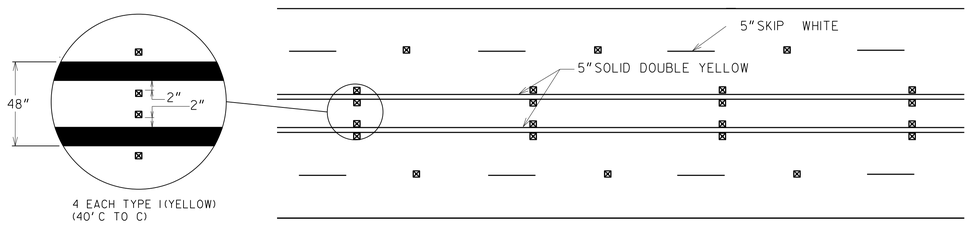
REVERSIBLE LANE



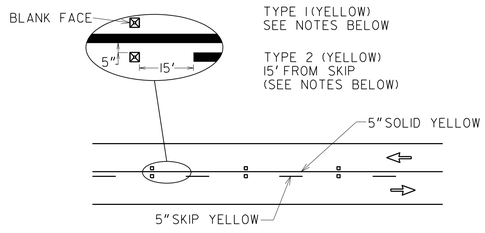
TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



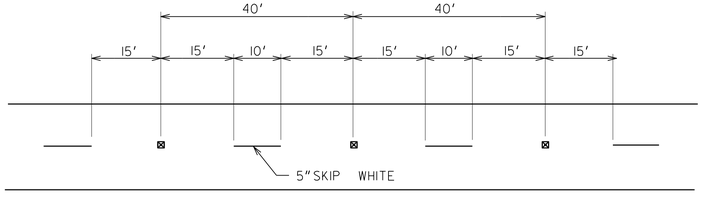
NO PASSING ZONE



GENERAL NOTES:

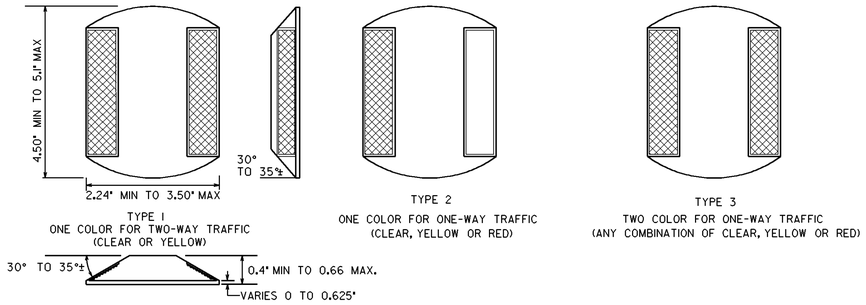
1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 40 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.

TYPICAL RPM/STRIPE SPACING

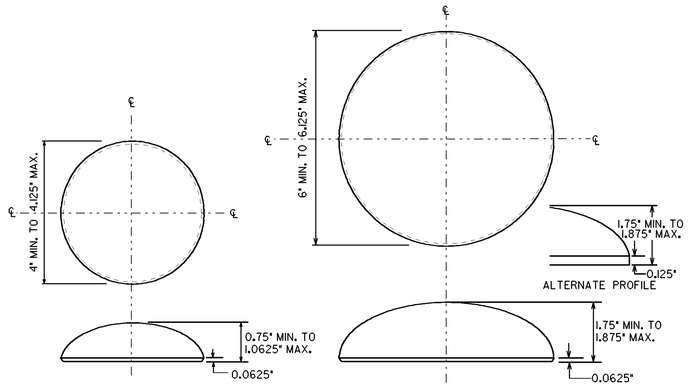


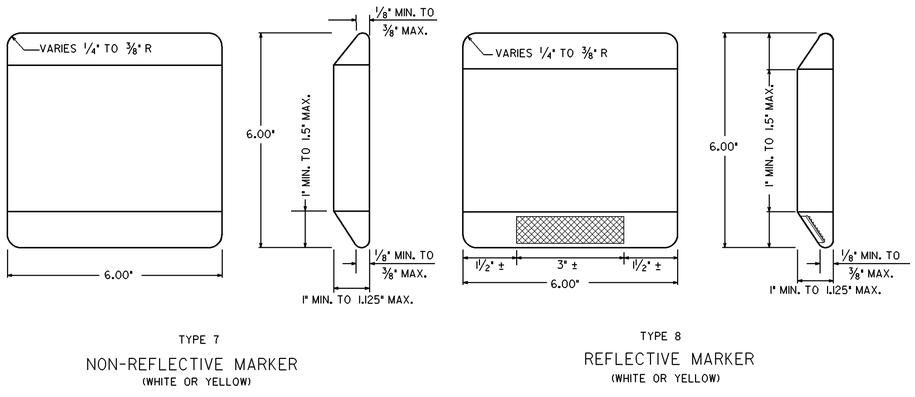
9-15-2016	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
REV. RPM SPACING TO 40'	CONSTRUCTION DETAILS RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY		
	NO SCALE	REV. AND REDRAWN, JUNE 2015	
CDR	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____	40-0012	NUMBER T-15A
BY	DATE	REVISION	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

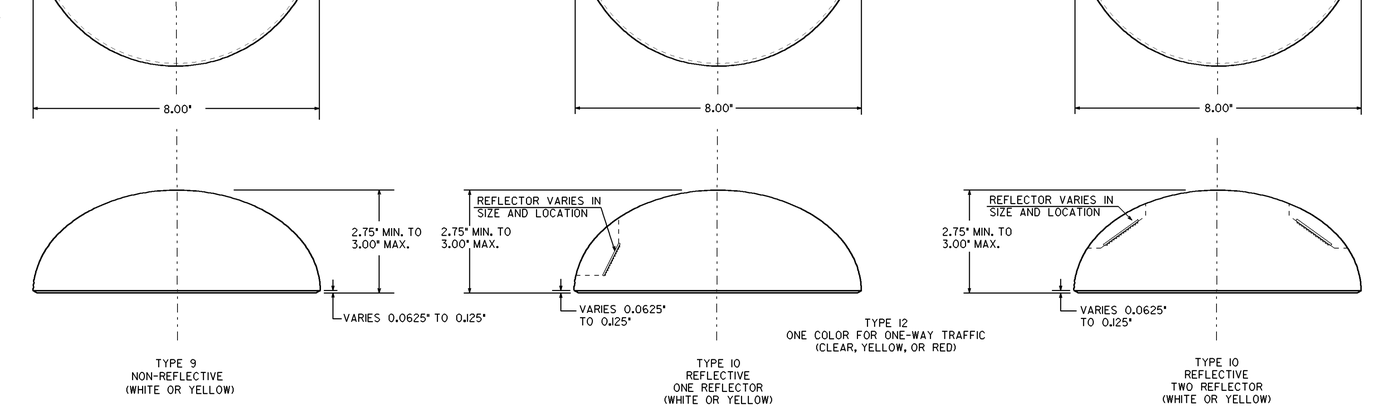


RAISED REFLECTIVE MARKERS

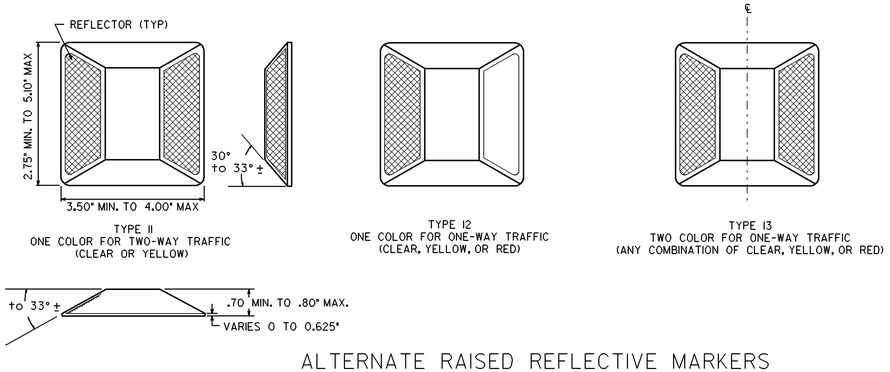




CERAMIC JIGGLE BAR MARKER



CERAMIC CHANNEL MARKER



ALTERNATE RAISED REFLECTIVE MARKERS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERE TO.
2. THE CONTRACTOR SHALL USE RAISED PAVEMNT MAKER SOURCES AS LISTED IN OPL 76.
3. COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
4. THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
5. THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
6. COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

40-0013

DATE	REVISIONS
9-22-11	REV. DIMENSIONS, ADDED
	NOTES TO MARKERS
	AND REV. GEN. NOTES.

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT MARKERS

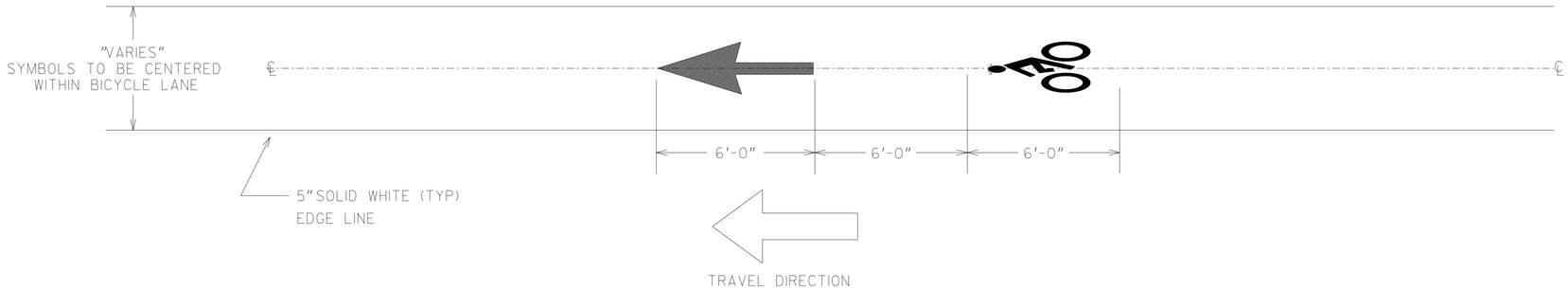
NO SCALE JANUARY 2000

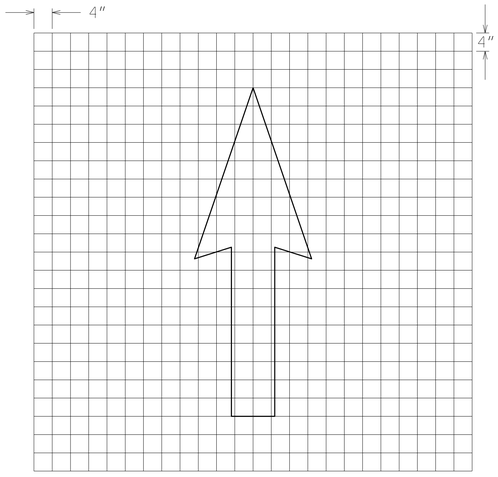
PCPRSM

PCBDTB

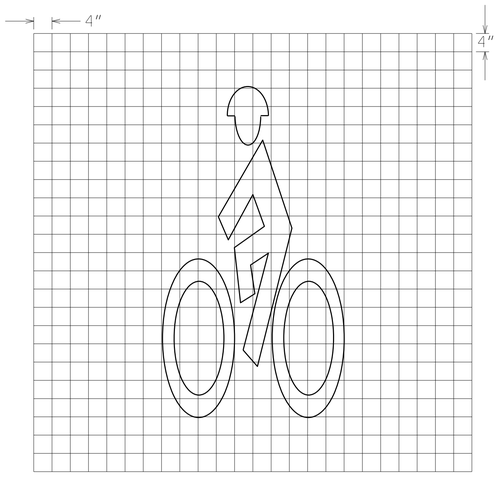
T-15C

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		





TYPE 1 ARROW - BICYCLE LANE



TYPE 4 SYMBOL - BICYCLE LANE

GENERAL NOTES:

1. BICYCLE LANE SYMBOLS SHALL BE PLACED ON THE FAR SIDE OF EACH INTERSECTION 6 FEET BEYOND THE CROSS WALK OR END OF INTERSECTING ROAD RADII. ADDITIONAL SYMBOLS MAY BE PLACED ON LONG, UNINTERRUPTED SECTIONS OF ROADWAY BASED ON ENGINEERING JUDGEMENT.

2. ALL BICYCLE LANE PAVEMENT SYMBOLS SHALL BE HOT APPLIED PREFORMED PLASTIC (THERMOPLASTIC - 659) FOR BOTH ASPHALT AND CONCRETE PAVEMENTS.

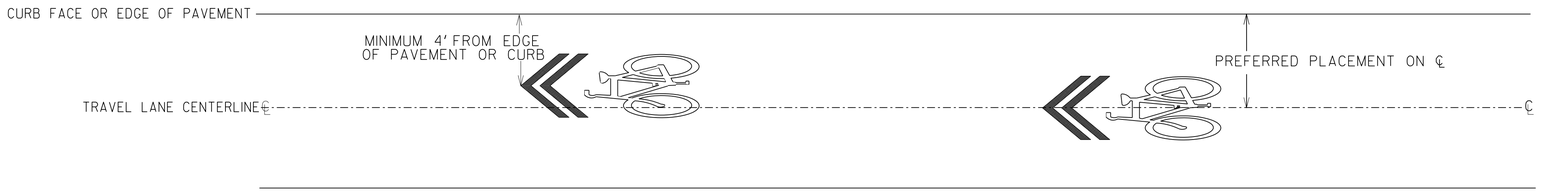
3. BICYCLE LANE EDGE LINE SHALL MATCH THE PAVEMENT MARKING TYPE SPECIFIED BY THE PAVEMENT MARKING SELECTION CHART IN SECTION 12 OF THE SIGNING AND MARKING DESIGN GUIDELINES.

4. FOR ADDITIONAL INFORMATION REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, CURRENT EDITION.

3-30-16 DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
Rev. 2009 MUTCD Manual. REVISION	CONSTRUCTION DETAILS DETAILS OF BICYCLE LANE PAVEMENT MARKINGS NO SCALE — JANUARY 2000	
HAC BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____	40-0014 — NUMBER T-16

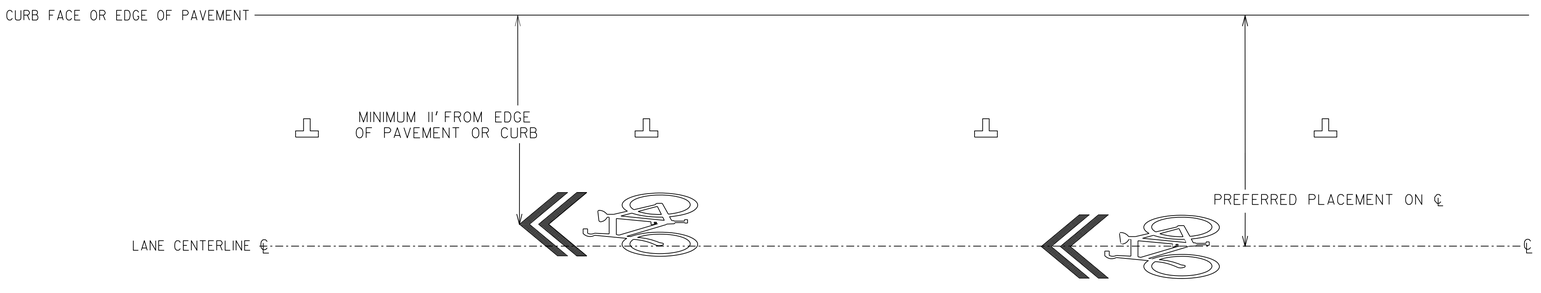
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

SHARED LANE ARROW PLACEMENT WITH NO STREET PARKING

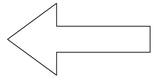


NOT TO SCALE

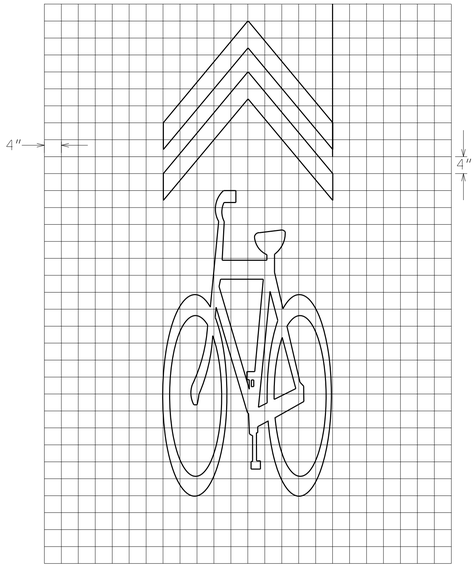
SHARED LANE ARROW PLACEMENT WITH ON STREET PARKING



NOT TO SCALE



TRAVEL DIRECTION



BIKE SHARED LANE SYMBOL

GENERAL NOTES:

1. SHARED LANE MARKINGS SHALL BE PLACED ON THE FAR SIDE OF EACH INTERSECTION 6 FEET BEYOND THE CROSS WALK OR END OF INTERSECTING ROAD RADII. ADDITIONAL SYMBOLS SHOULD BE PLACED NOT GREATER THAN EVERY 250 FEET THEREAFTER.
2. SHARED LANE MARKINGS SHALL NOT BE PLACED ON SHOULDERS OR IN DESIGNATED BIKE LANES.
3. ALL SHARED BICYCLE LANE PAVEMENT SYMBOLS SHALL BE HOT APPLIED PREFORMED PLASTIC (THERMOPLASTIC - 659) FOR BOTH ASPHALT AND CONCRETE PAVEMENTS.
4. FOR ADDITIONAL INFORMATION REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, CURRENT EDITION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

DETAILS OF
SHARED BICYCLE
LANE

NO SCALE — 3-30-16

DATE / REVISION / BY

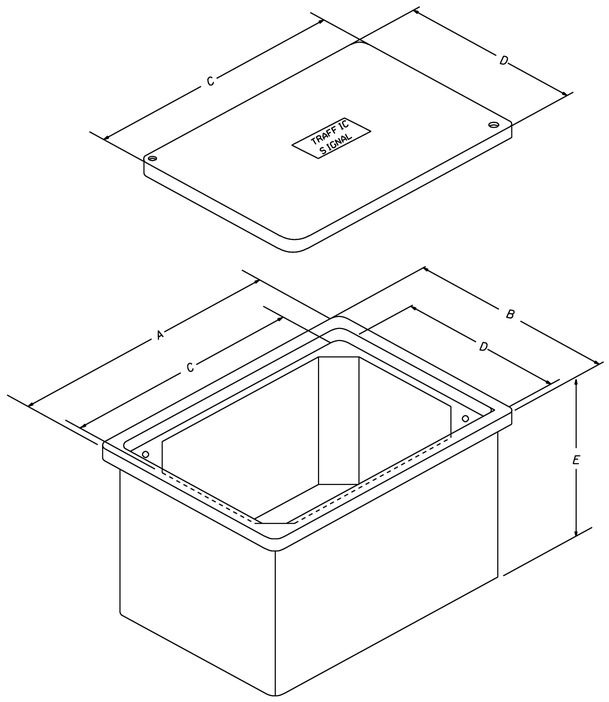
DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

40-0015

NUMBER T-16A

STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		

PULLBOX TYPES 1, 2 AND 3



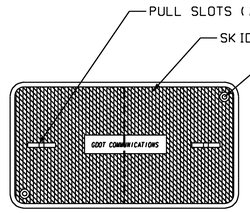
PULL BOX TYPE	* SIZE (IN.)				
	A	B	C	D	E
1	14	14	12	12	12
2	21	14	18	11	12
3	33	20	30	17	12
4S	38	26	36	24	18
4	38	26	36	24	36
5S	50	32	48	30	18
5	50	32	48	30	36
6	38	26	36	24	36
7	50	32	48	30	36

NOTES:
1. SIZES SHOWN ARE MINIMUM TRADE SIZES.
2. DIMENSIONS "C" AND "D" ARE MINIMUM REQUIREMENTS WITH A TOLERANCE OF NO MORE THAN (-.050 IN/ + 2 IN)
3. EXTEND COARSE GRAVEL 6" BEYOND BASE OF PULL BOX
4. PULL BOXES TYPE 4, 4S, 5, 5S, 6 & 7 SHALL HAVE 1° (DEGREE) FLARES FOR MAXIMUM STRENGTH
5. DESIGN PULL BOXES TO MEET OR EXCEED THE TIER LOADING SET FORTH IN SPECIFICATIONS 647.

Guidelines For Usage On Metric Projects

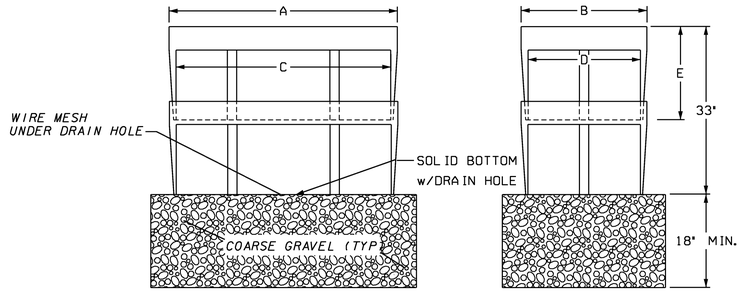
When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

TYPE 4, 5, 4S, 5S, 6, AND 7 PULLBOX ASSEMBLIES



TOP VIEW

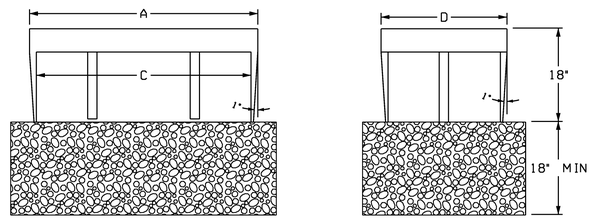
NOTE:
1. TYPE 5 AND TYPE 7 PULL BOXES SHALL HAVE SPLIT LID



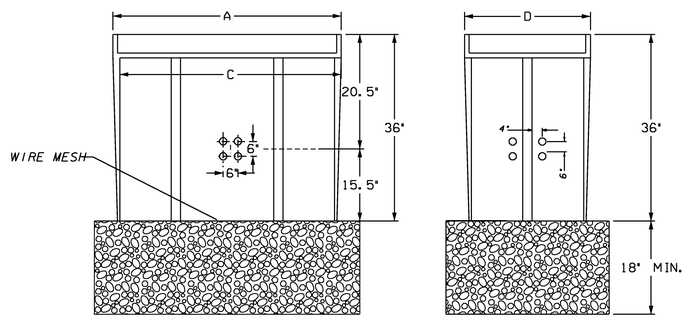
FRONT VIEW

END VIEW

TYPE 4 AND 5 STACKABLE ASSEMBLY

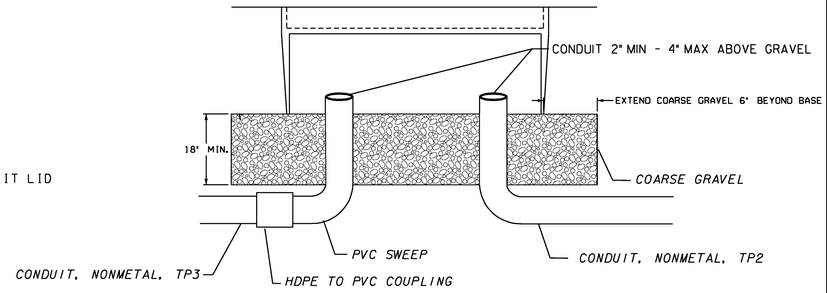


TYPE 4S AND 5S

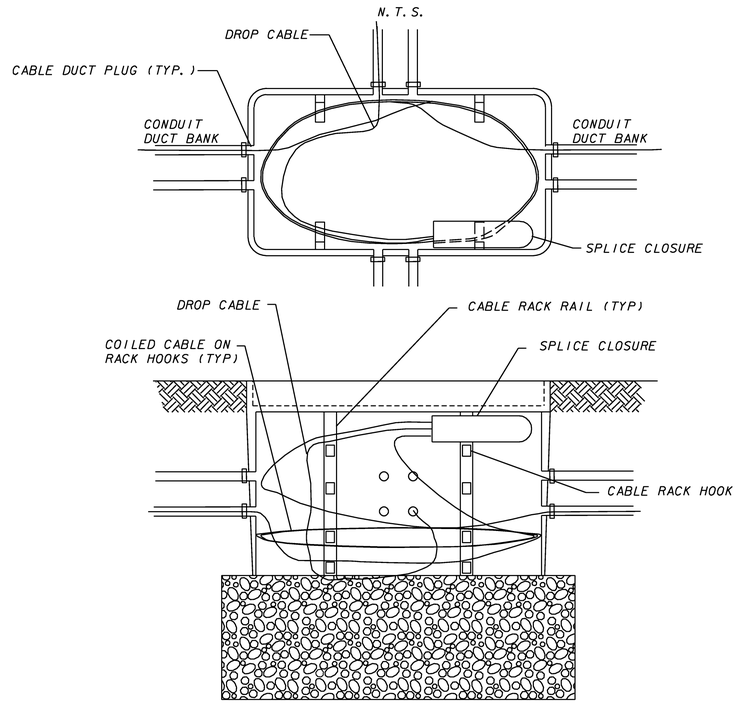


TYPE 6 AND 7

TYPICAL CONDUIT ENTRANCE DETAILS
TYPE 1,2,3,4S & 5S



FIBER OPTIC CABLE MANAGEMENT IN TYPE 4,5,6 & 7 PULL BOX



FIBER TRUNK AND DROP CABLE IN CLOSURE SHALL BE COILED TOGETHER. SEPARATE FIBER CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON SEPARATE RACK HOOKS.

40-0016

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

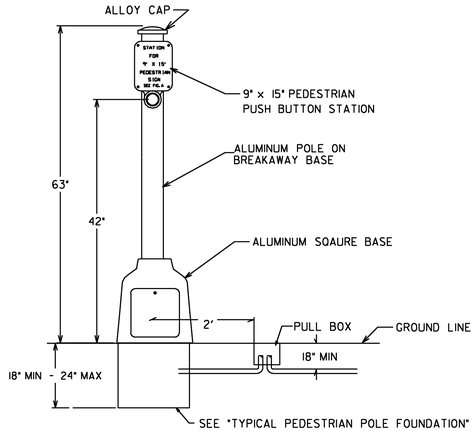
PULLBOX ASSEMBLY AND INSTALLATION

DETAIL NUMBER
TS-02

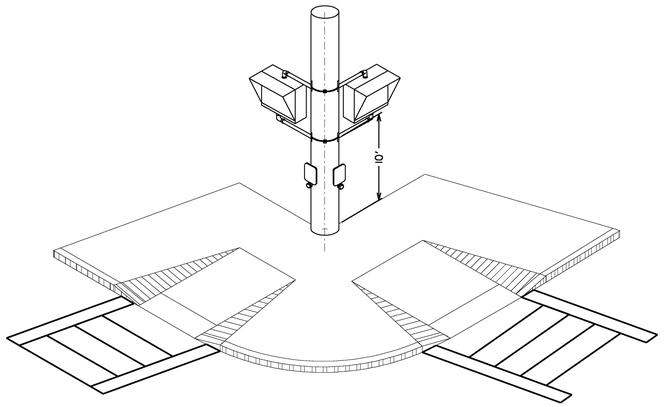
APRIL 2010
NOT TO SCALE - REPORT ERRORS

DATE | REVISION | BY

STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		

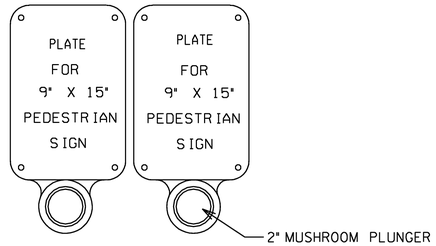


PEDESTRIAN PUSH BUTTON POST



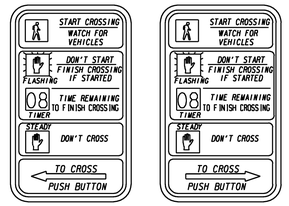
PEDESTRIAN SIGNAL HEAD ORIENTATION FOR SIDE OF POLE MOUNTING

INSTALL PEDESTRIAN SIGNAL HEADS SO THAT VEHICLES MAKING TURNS WILL NOT DAMAGE THE EQUIPMENT



A "PUSH BUTTON STATION" IS THAT PIECE OF EQUIPMENT THAT CONTAINS THE PEDESTRIAN INSTRUCTIONAL SIGN PLATE AND THE PUSH BUTTON

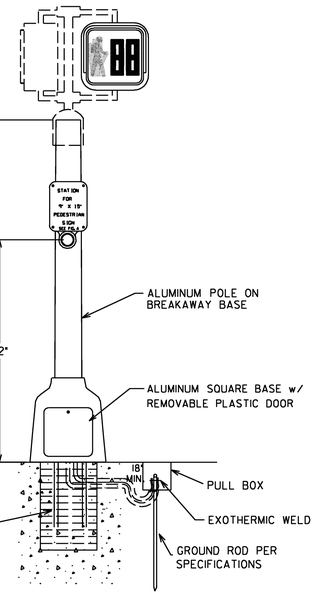
PEDESTRIAN PUSH BUTTON STATION



R10-3E(L) 9" X 15"

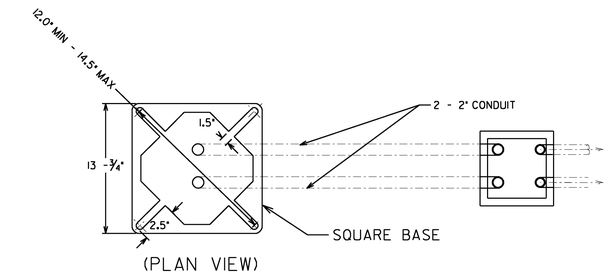
R10-3E(R) 9" X 15"

PEDESTRIAN SIGNS



DETAIL FOR PEDESTRIAN SIGNAL POLES

NOTE:
DETAILS SHOWN IS FOR TOP POST MOUNTING ASSEMBLY ON 10 FEET PEDESTRIAN POLE.
A CLAMSHELL MOUNTING ASSEMBLY (NOT SHOWN) MAY BE USED AS APPROVED BY THE DEPARTMENT.
THE CLAMSHELL MOUNTING HARDWARE ASSEMBLY SHALL MEET THE SAME GDOT STANDARDS AS THE PEDESTRIAN SIGNAL HOUSING IN PAINT AND MATERIAL.



TYPICAL PEDESTRIAN POLE FOUNDATION

Guidelines For Usage On Metric Projects

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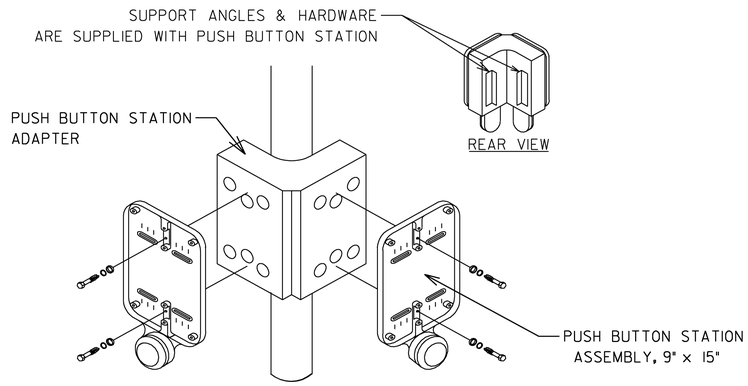


DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" DIA. PEDESTRIAN POLE

40-0017

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

DATE | REVISION DESCRIPTION | REV. BY:

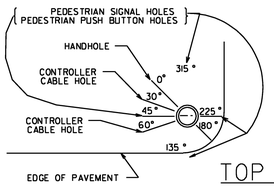
TRAFFIC SIGNAL DETAIL

PEDESTRIAN FACILITIES INSTALLATION DETAILS

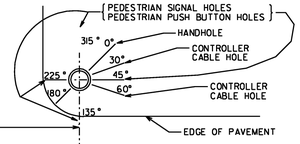
DETAIL NUMBER
TS-03A

APRIL 2010
NOT TO SCALE - REPORT ERRORS

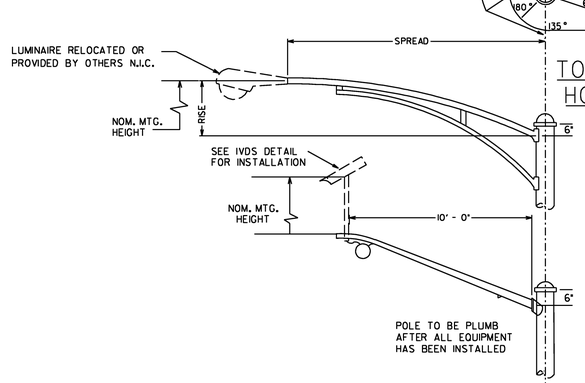
STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		



TOP VIEW FOR INLET HOLES ORIENTATION



TOP VIEW FOR INLET HOLES ORIENTATION



NOTES:

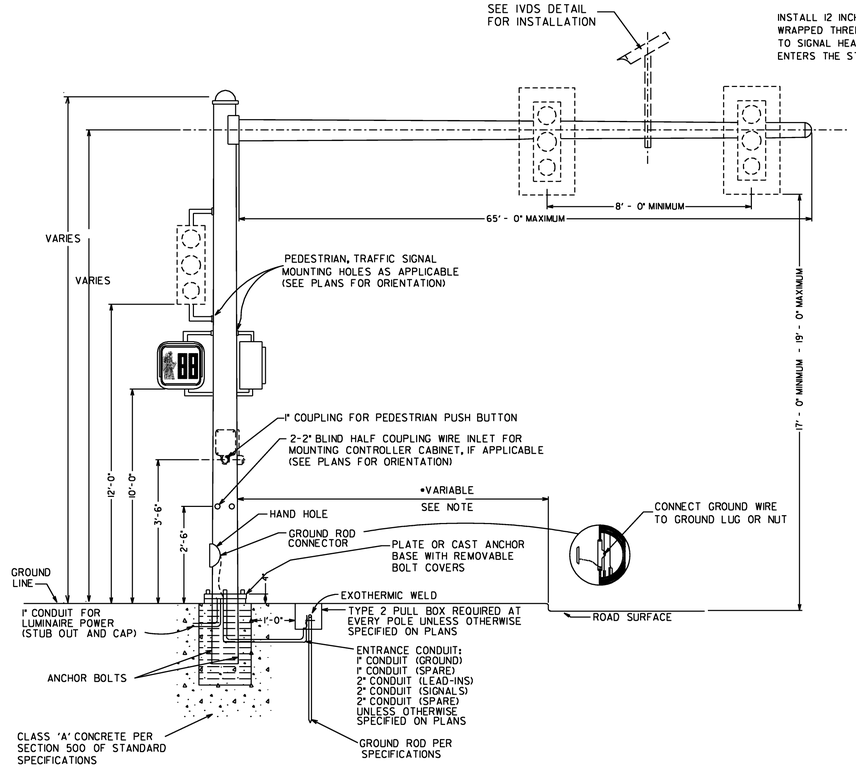
DRAWINGS AND OTHER DATA INDICATING POLE DIMENSIONS AND DESIGN TOGETHER WITH DESIGN OF BASE SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE DEPT. ENGINEER, PER SPECIFICATIONS AND DETAILS.

FOUNDATION SIZE AND REINFORCING SHALL BE DETERMINED FROM THE "STRAIN POLE FOUNDATIONS" SHEET WITH THE USE OF THE BENDING MOMENT AT YIELD PROVIDED BY POLE MANUFACTURER.

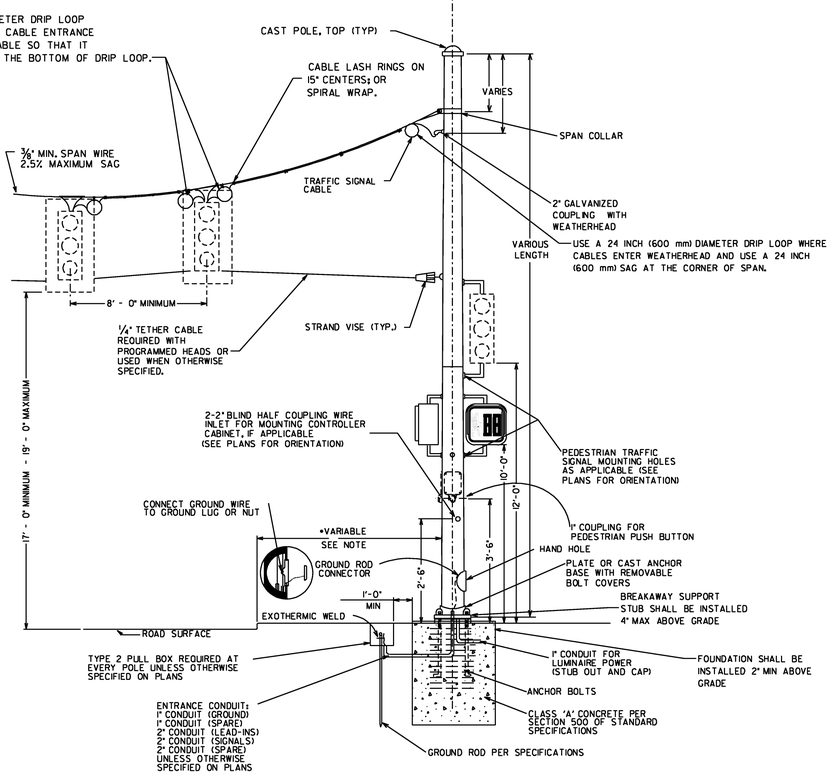
ALL HOLES IN MAST ARMS MUST BE FABRICATED BY THE MANUFACTURER. SEE SECTION 925 OF STANDARD SPECIFICATIONS REGARDING RIGID MOUNTING HARDWARE FOR SIGNAL HEADS.

WHEN POLES ARE LOCATED ON ALL CORNERS, LUMINARIES ARE TO BE INSTALLED PERPENDICULAR TO THE FAR SIDE APPROACHING TRAFFIC.

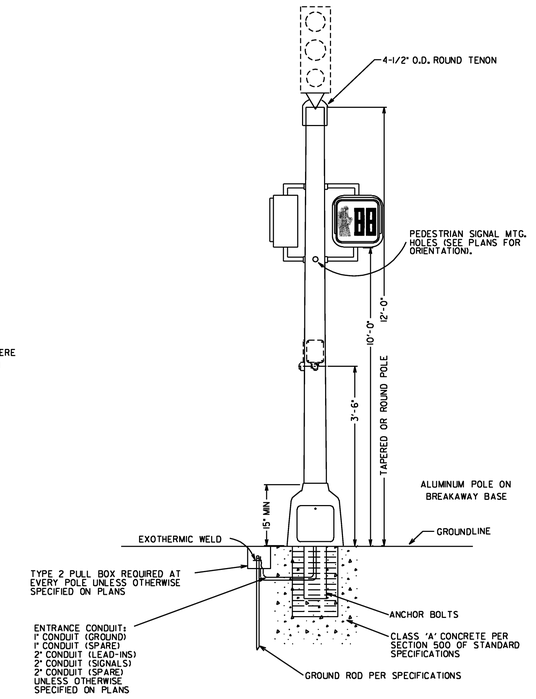
WHEN LUMINARIES ARE ONLY BEING INSTALLED ON TWO CORNERS, THEY SHOULD BE INSTALLED PERPENDICULAR TO THE FAR SIDE APPROACHING TRAFFIC ON THE MAJOR APPROACH.



TYPICAL MAST ARM POLE DETAIL



TYPICAL STEEL STRAIN POLE DETAIL



PEDESTAL POLE MOUNTED SIGNAL HEAD

•NOTE:

CLEAR-ZONE WIDTH REQUIREMENTS ARE BASED ON AVERAGE DAILY TRAFFIC AND VEHICLE SPEEDS. SEE THE AASHTO "ROADSIDE DESIGN GUIDE" FOR GUIDANCE ON DESIGN OF CLEAR-ZONE AREAS.

FOUNDATIONS SHALL BE INSTALLED ABOVE GRADE, BUT NOT EXCEED 4" MAXIMUM STUB HEIGHT TO LESSEN SNAGGING OF THE UNDERCARRIAGE OF A VEHICLE

Guidelines For Usage On Metric Projects

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40-0018

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

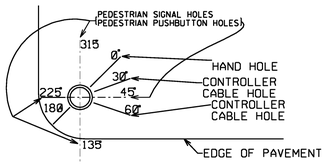
TRAFFIC SIGNAL DETAIL

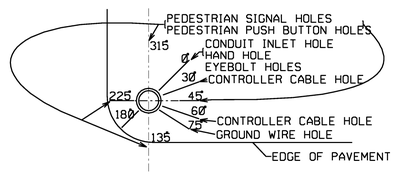
DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES

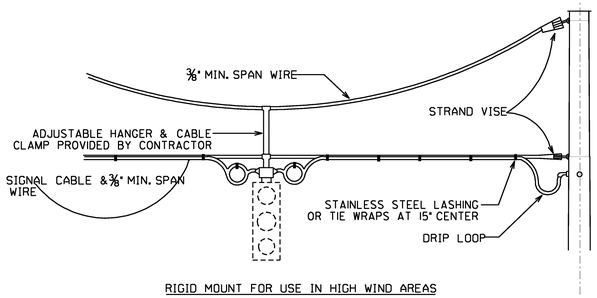
REV. BY:	REVISION DESCRIPTION	DATE	DETAIL NUMBER
		APRIL 2010	*TS-04*

NOT TO SCALE - REPORT ERRORS

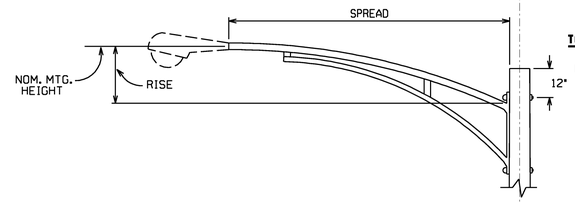
STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		



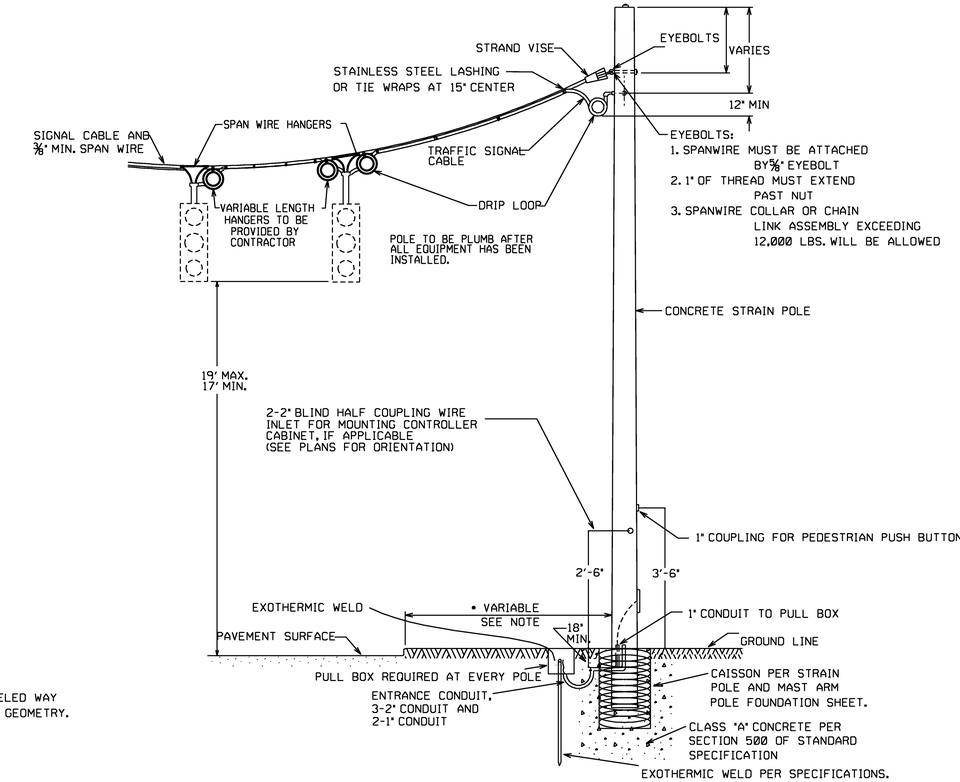




RIGID MOUNT FOR USE IN HIGH WIND AREAS
(WHEN NOTED ON PLANS)



TOP VIEW FOR INLET HOLES ORIENTATION



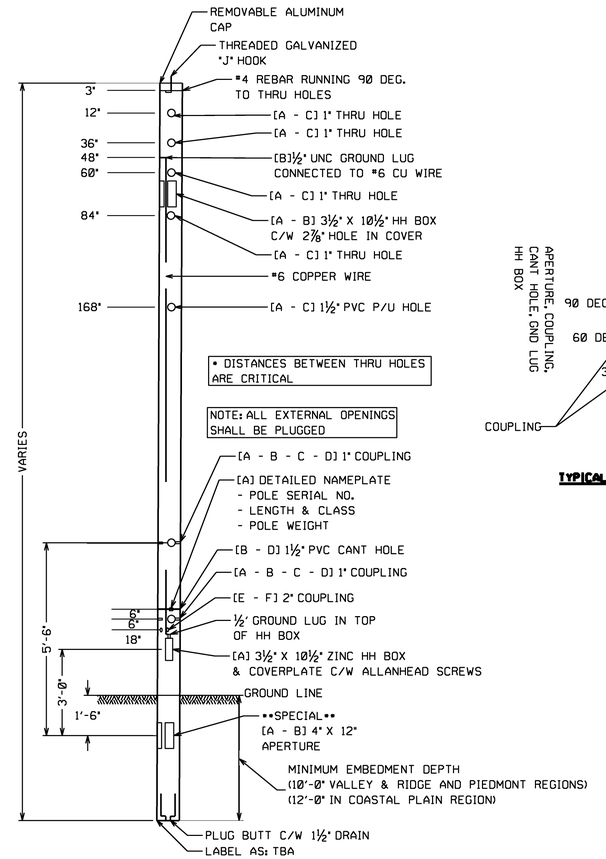
CONCRETE STRAIN POLE

NOTE:

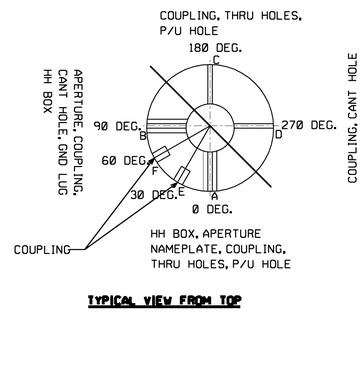
CONCRETE STRAIN POLE FOOTING WILL INCLUDE THE SAME FOOTING DESIGN AS A "SIMILAR" DESIGN STEEL POLE. THE STEEL REINFORCEMENT FROM STRAIN POLE AND MAST ARM POLE FOUNDATION DESIGN SHEET WILL BE INSTALLED AROUND THE CONCRETE STRAIN POLE. BACK FILL THE POLE AS DESCRIBED IN THE "CAISSON DETAIL" UP TO THE LEVEL OF THE CONDUIT ENTRANCE/ HAND HOLE DEPTH. ONCE THE CONDUIT AND WIRE CONNECTING ARE MADE INSIDE THE POLE, FINISH BACK FILLING ACCORDING TO "CAISSON DETAIL."

ALL POLES SHALL HAVE ATTACHMENT POINTS 2"(MIN.) ABOVE ACTUAL ATTACHMENT POINT FOR FUTURE USE.

NO DRILLING OF POLE WITHOUT APPROVAL FROM GOOT BRIDGE OFFICE.



TYPICAL POLE SECTION FOR CONCRETE STRAIN POLE



TYPICAL VIEW FROM TOP

•NOTE:

1. THE CLEAR ZONE IS THE TOTAL ROADSIDE BORDER AREA, STARTING AT THE EDGE OF THE TRAVELED WAY
2. THE WIDTH OF THE CLEAR ZONE IS DEPENDENT UPON TRAFFIC VOLUMES, SPEEDS AND ROADSIDE GEOMETRY.
3. ADDITIONAL INFORMATION CAN BE FOUND IN THE "AASHTO ROADSIDE DESIGN GUIDE".

Guidelines For Usage On Metric Projects

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40-0019

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

DATE
REVISION DESCRIPTION
REV. BY:

TRAFFIC SIGNAL DETAIL
DETAILS OF CONCRETE POLES

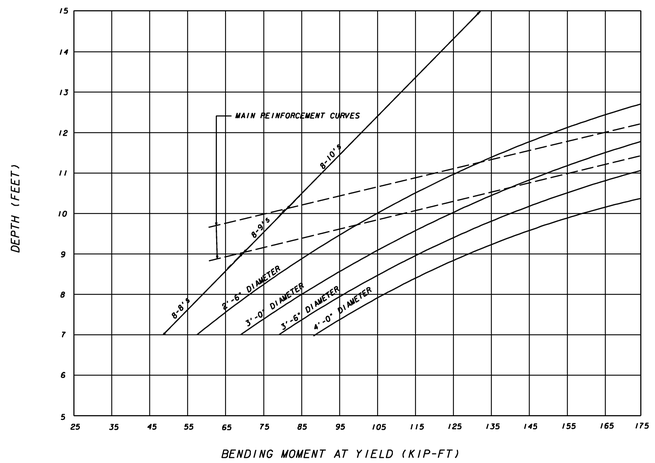
APRIL 2010
NOT TO SCALE - REPORT ERRORS

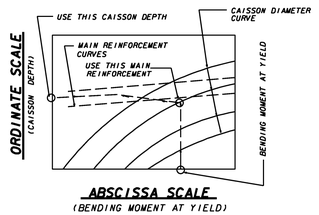
DETAIL NUMBER
TS-05

STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		

PIEDMONT

γ = 120 PCF
ϕ = 25 DEGREES
C = 300 PCF



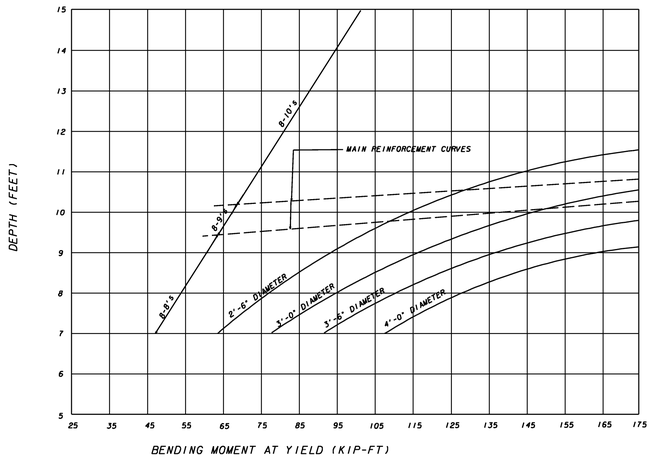


PROCEDURE TO FIND FOOTING SIZE

1. DETERMINE "BENDING MOMENT AT YIELD" FROM APPROVED SHOP DRAWINGS
2. SELECT DIAMETER OF CAISSON.
3. READ "BENDING MOMENT AT YIELD" ON ABSCISSA SCALE. PROJECT A VERTICAL LINE UPWARD UNTIL THE DESIRED "CAISSON DIAMETER CURVE" IS INTERSECTED. TURN 90 DEGREES AND PROJECT A HORIZONTAL LINE UNTIL THE ORDINATE SCALE IS INTERSECTED.
4. READ THE REQUIRED " CAISSON DEPTH" FROM THE INTERSECTION POINT ON THE ORDINATE SCALE DEPTH SHALL BE INTERPOLATED TO THE NEAREST 3 INCH INCREMENT.
5. READ THE REQUIRED "MAIN REINFORCEMENT SIZE" FROM THE INTERSECTION POINT ON THE CAISSON DIAMETER CURVE.

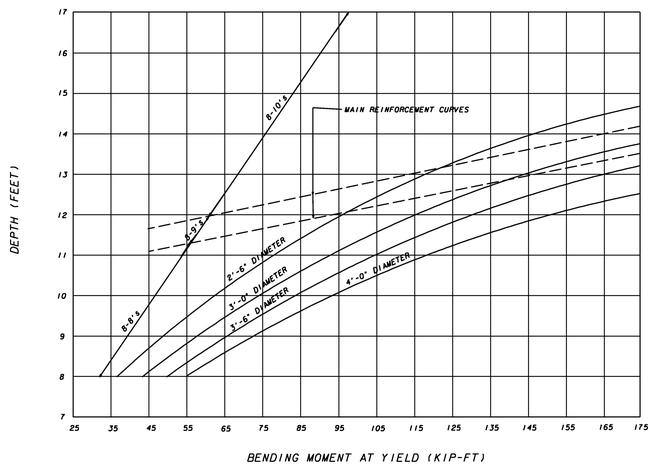
VALLEY & RIDGE

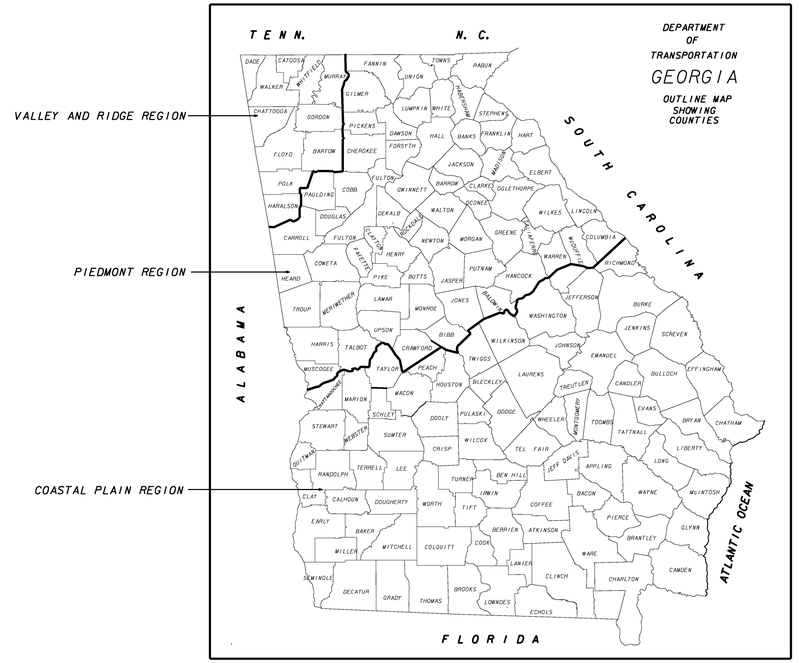
γ = 115 PCF
ϕ = 18 DEGREES
C = 750 PSF



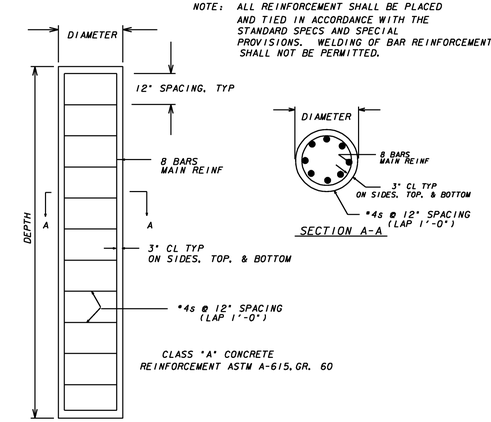
COASTAL PLAIN

γ = 120 PCF
ϕ = 32 DEGREES
C = 0 PCF





NOTE: ALL REINFORCEMENT SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE STANDARD SPECS AND SPECIAL PROVISIONS. WELDING OF BAR REINFORCEMENT. SHALL NOT BE PERMITTED.



40-0020

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

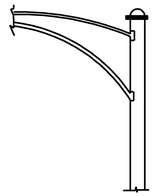
DETAILS OF STRAIN POLE AND MAST ARM FOUNDATIONS

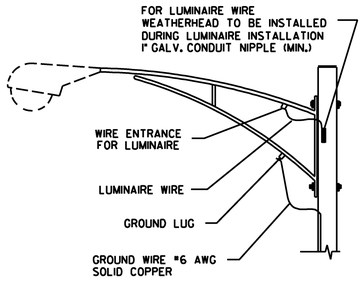
REV. BY:	REVISION DESCRIPTION	DATE

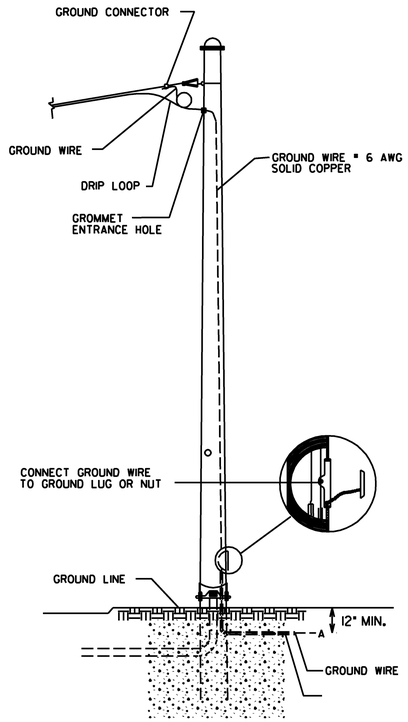
APRIL 2010
NOT TO SCALE - REPORT ERRORS

DETAIL NUMBER
TS-06

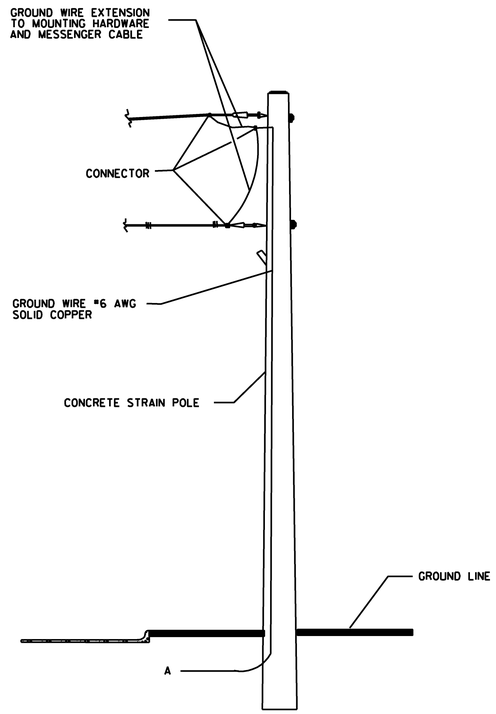
STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		





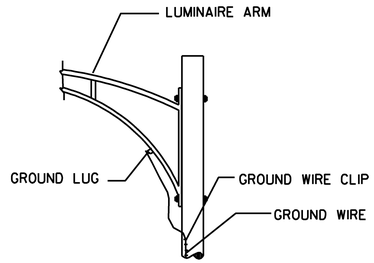


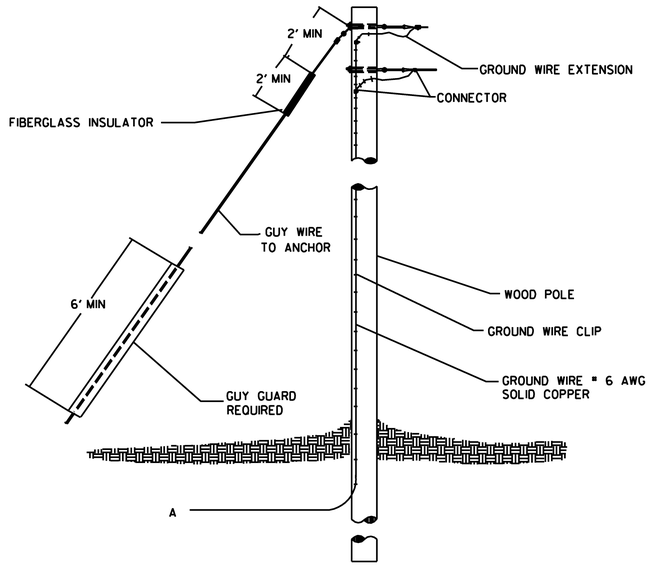
STEEL STRAIN POLE



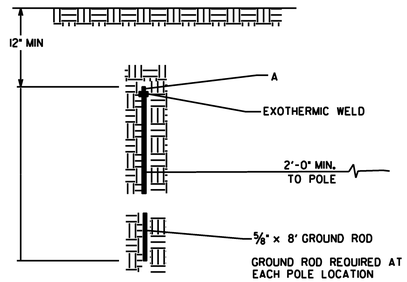
CONCRETE STRAIN POLE

OVERHEAD SIGN GROUNDING SYSTEM SHALL
CONFORM TO SECTION 647





TIMBER POLE



GROUNDING DETAIL

Guidelines For Usage On Metric Projects

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40-0021

REV. BY:	REVISION DESCRIPTION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

GROUNDING DETAILS FOR TRAFFIC SIGNAL SUPPORT STRUCTURES I

APRIL 2010

NOT TO SCALE - REPORT ERRORS

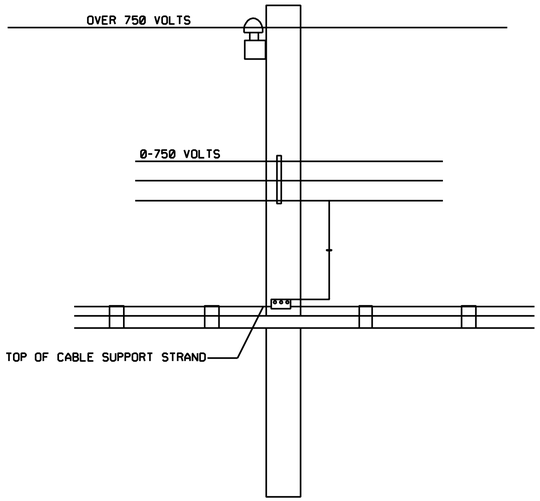
DETAIL NUMBER

TS-07

STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		

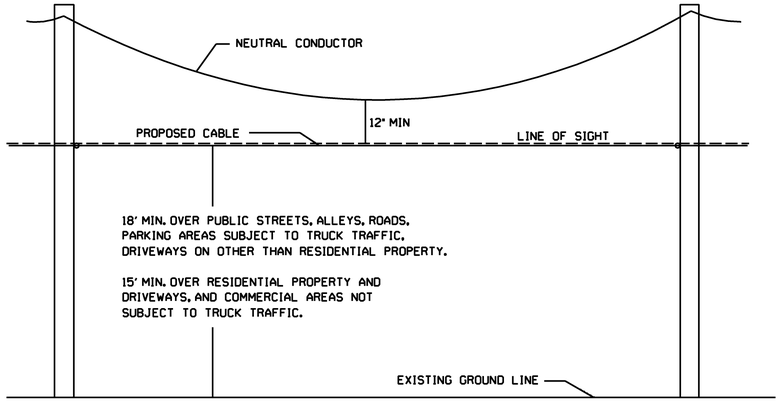
TYPICAL DETAIL "A"

TYPICAL POWER SEPARATION AT POLE



TYPICAL DETAIL "B"

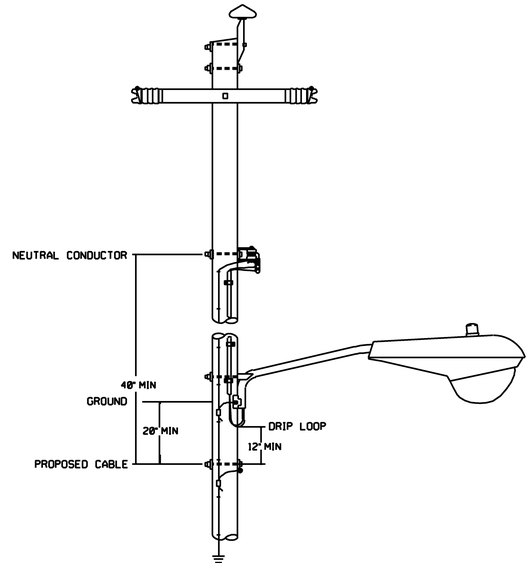
SEPARATION REQUIREMENTS FOR MID-SPAN AND AT CROSSINGS



THE VERTICAL SEPARATION FROM NEUTRAL CONDUCTORS SHALL BE INCREASED SO THAT THE LOWEST POINT OF THE NEUTRAL CONDUCTOR (IN THE SPAN OR AT THE CROSSING) WILL BE AT LEAST 12 INCHES ABOVE THE COMMUNICATION CABLE ATTACHMENT LEVEL (LINE OF SIGHT) AS ILLUSTRATED ABOVE.

TYPICAL DETAIL "C"

STREET LIGHT BRACKET SEPARATION
NOTE: SEE TABLE BELOW



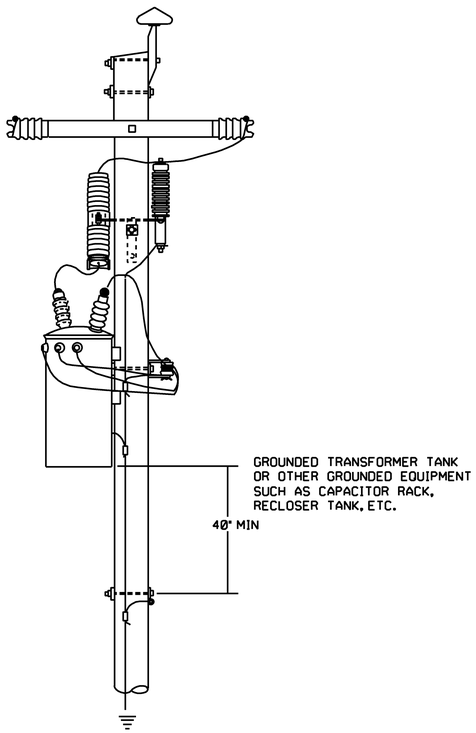
VERTICAL CLEARANCES AT THE POLE FOR SPAN WIRES AND BRACKETS FOR STREET LIGHTS (RULE 238C)

TYPE OF CLEARANCE	CLEARANCE (IN.)			
	IF EFFECTIVELY GROUNDED	IF NOT EFFECTIVELY GROUNDED		
		FOR LUMINAIRES		FOR TROLLEY CONDUCTORS
		UP TO 150V	OVER 150V	
ABOVE COMMUNICATION CROSS ARMS	20 (A)	20 (A)	20 (A)	20 (A)
BELOW COMMUNICATION CROSS ARMS	24	24	40	24
ABOVE COMMUNICATION CABLES	4	20 (A)	20 (A)	12
BELOW COMMUNICATION CABLES	4	20	40	12
FROM COMMUNICATION TERMINAL BOXES	4	20 (A)	20 (A)	12 (B)
FROM COMMUNICATION BRACKETS BRIDLE WIRE RINGS, AND DRIVE HOOKS	4	16 (A)	16 (A)	4

NOTES A. MAY BE REDUCED TO 12 IN. FOR WIRES OR PARTS OF BRACKETS 40 IN. OR MORE FROM SURFACE OF POLE
B. IF OBTAINABLE IF NOT, MAXIMUM OBTAINABLE

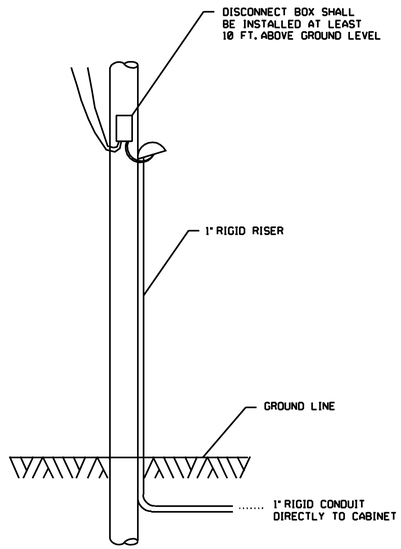
TYPICAL DETAIL "D"

TYPICAL TRANSFORMER AND POWER RISER SEPARATION WITHOUT GUARD ARM



TYPICAL DETAIL "E"

TYPICAL DISCONNECT BOX INSTALLATION



Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

40-0022

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

UTILITY CLEARANCE DETAIL

DETAIL NUMBER

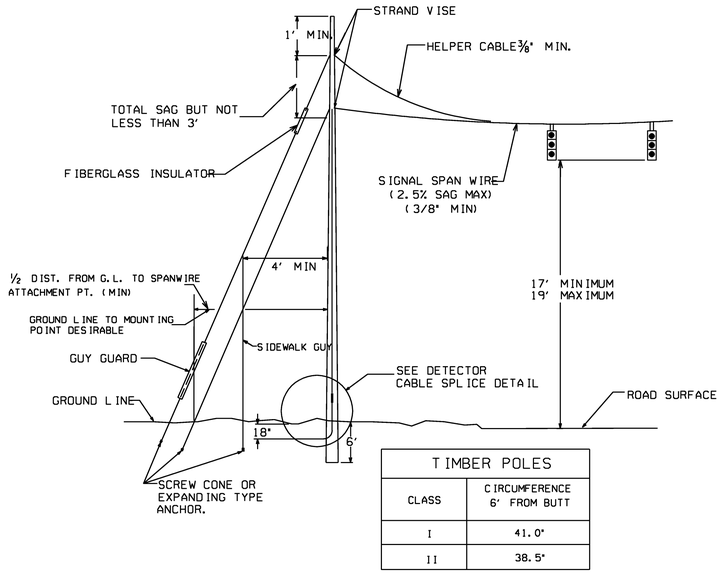
APRIL 2010

NOT TO SCALE - REPORT ERRORS

TS-08

DATE | REVISION DESCRIPTION | REV. BY:

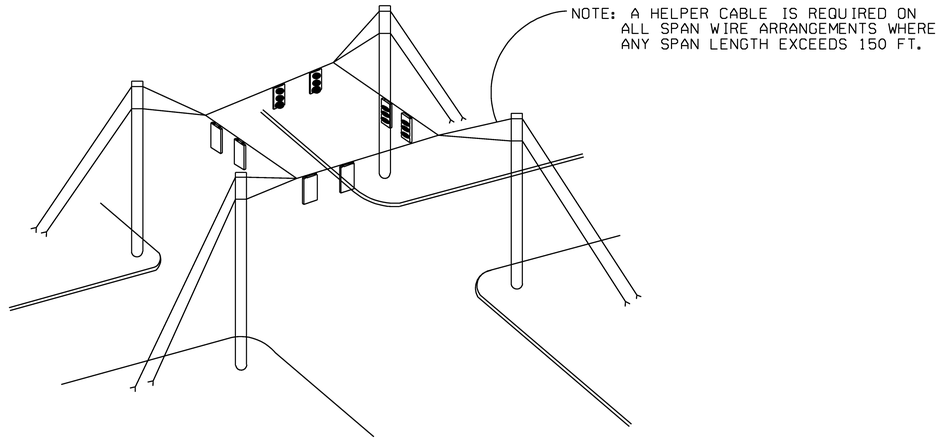
STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		0008121/0012789		



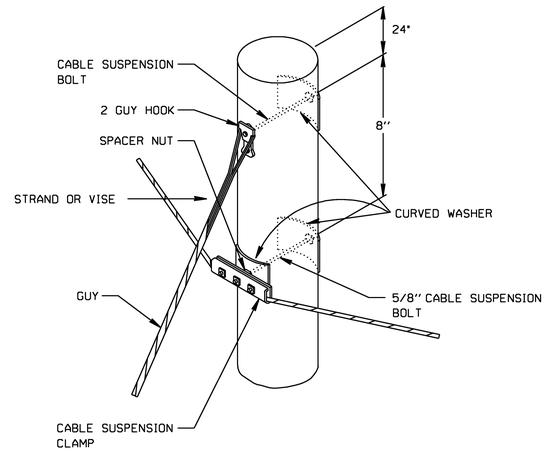
TIMBER POLES	
CLASS	CIRCUMFERENCE 6' FROM BUTT
I	41.0"
II	38.5"

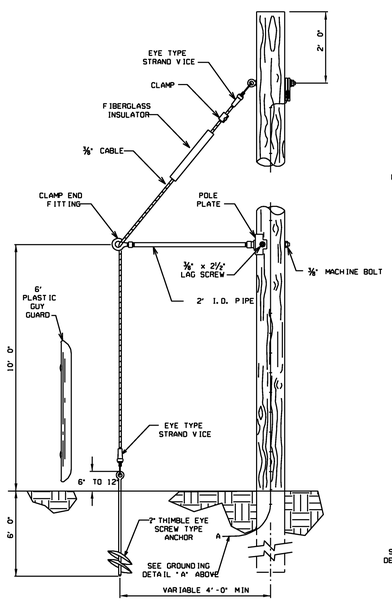
TYP. TIMBER SIGNAL POLE DETAIL

SAG = .025 SPAN LENGTH
SPAN LENGTH = LONGEST DISTANCE BETWEEN ANY TWO SUPPORT POLES IN INSTALLATION.

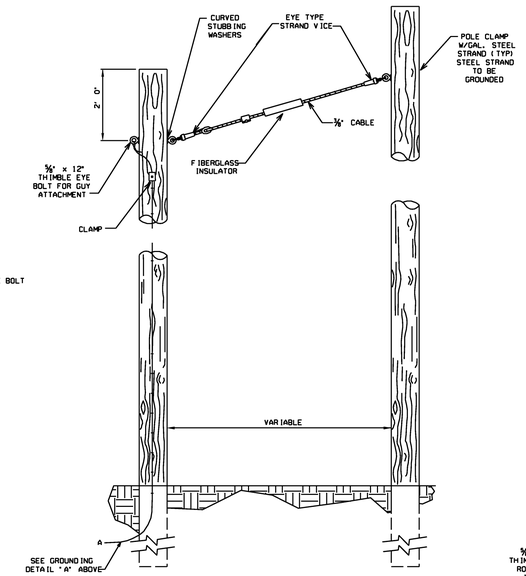


TYPICAL DETAIL "D"
SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET

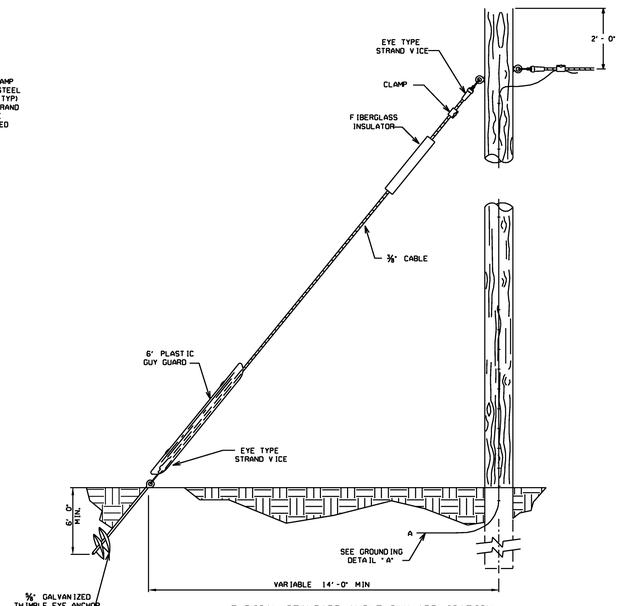




TYPICAL SIDEWALK GUY APPLICATION

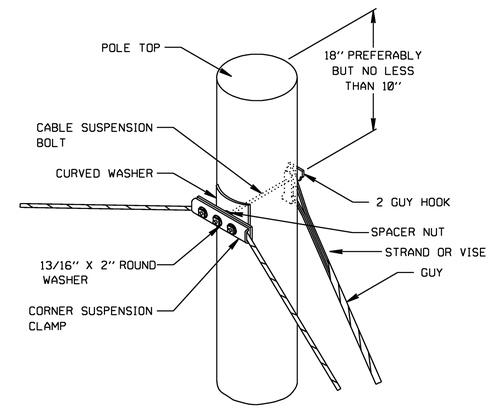


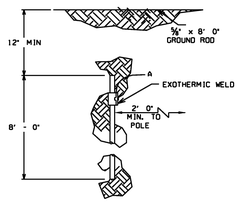
TYPICAL AERIAL GUY APPLICATION



TYPICAL STANDARD ANGLE GUY APPLICATION

TYPICAL DETAIL "E"
SUSPENSION STRAND - PULL AWAY FROM POLE - 5 FEET OR MORE





GROUNDING DETAIL "A"
(REQUIRED AT EACH POLE LOCATION)

Guidelines For Usage On Metric Projects

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40-0023

REV. BY:	REVISION DESCRIPTION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

TRAFFIC SIGNAL DETAIL

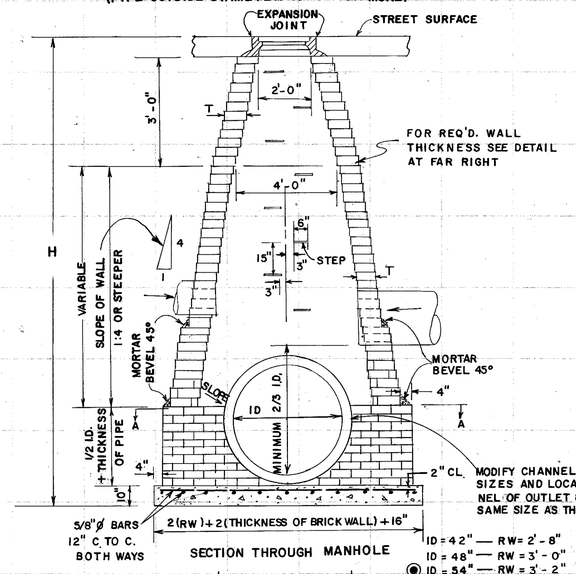
STANDARD GUYING DETAILS

DETAIL NUMBER
TS-09

APRIL 2010
NOT TO SCALE - REPORT ERRORS

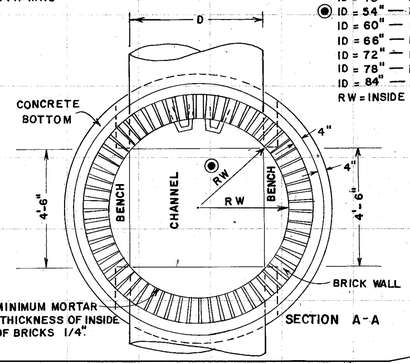
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS 48" OR MORE)



SECTION THROUGH MANHOLE

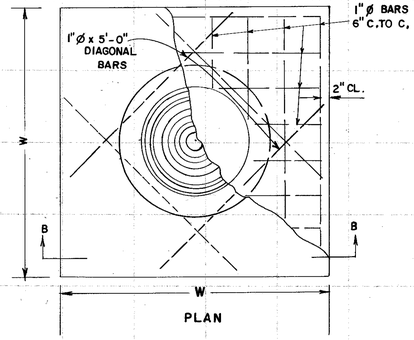
ID = 42" — RW = 2'-8"
ID = 48" — RW = 3'-0"
ID = 54" — RW = 3'-2"
ID = 60" — RW = 3'-4"
ID = 66" — RW = 3'-7"
ID = 72" — RW = 3'-9"
ID = 78" — RW = 3'-11"
ID = 84" — RW = 4'-2"
RW = INSIDE RADIUS OF WALL



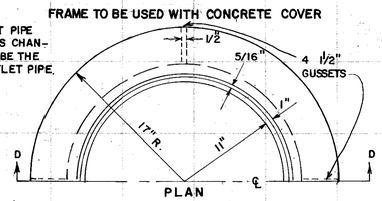
NOTE: MINIMUM MORTAR JOINT THICKNESS OF INSIDE EDGE OF BRICKS 1/4"

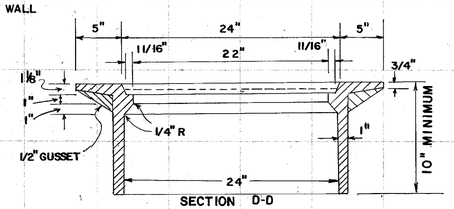
SECTION A-A

REINFORCED CONCRETE COVER



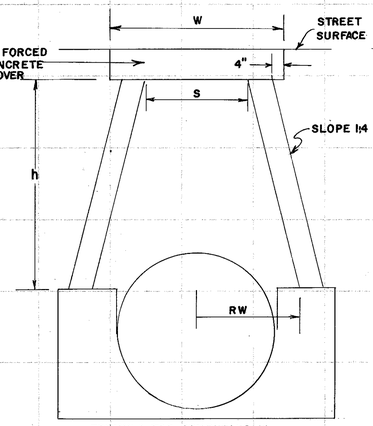
FRAME TO BE USED WITH CONCRETE COVER





SCALE: 1 1/2" = 1'

PLACEMENT FOR CONCRETE COVER



FORMULA FOR COMPUTING W
RW = INSIDE RADIUS OF WALL
S = 2RW − 1/2
W = S + 24"

NOTE: USE CONCRETE COVER WITH MANHOLE CASTINGS IF FILL FROM TOP OF PIPE TO FINISHED SURFACE IS LESS THAN:

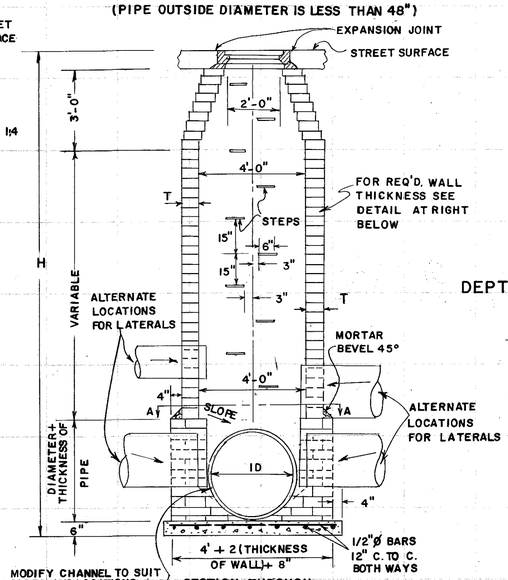
4'-6"	FOR 42" PIPE
5'-0"	FOR 48" PIPE
5'-6"	FOR 54" PIPE
6'-0"	FOR 60" PIPE
6'-6"	FOR 66" PIPE
7'-0"	FOR 72" PIPE
7'-6"	FOR 78" PIPE
8'-0"	FOR 84" PIPE

THICKNESS OF BRICK WALL
(SEE DETAIL AT FAR RIGHT)

DEPTH	THICKNESS (T)
TO 10'	*8" MIN.
10' TO 20'	12" MIN.
20' TO 30'	16" MIN.

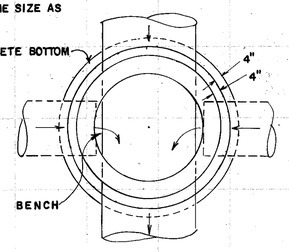
*FOR COMBINATION BRICK & PRECAST M.H. (SEE BELOW) ONLY 12" OR 16" BRICK WALL THICKNESS IS TO BE USED FOR BASE.

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS LESS THAN 48")



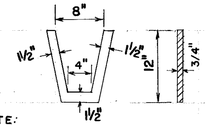
SECTION THROUGH MANHOLE

MODIFY CHANNEL TO SUIT PIPES AND LOCATIONS. CHANNEL AT OUTLET END TO BE THE SAME SIZE AS OUTLET PIPE.



SECTION A-A

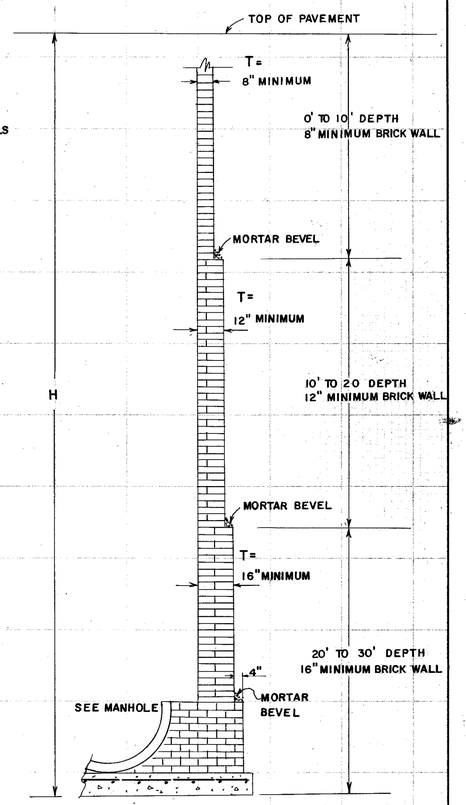
CAST IRON STEP



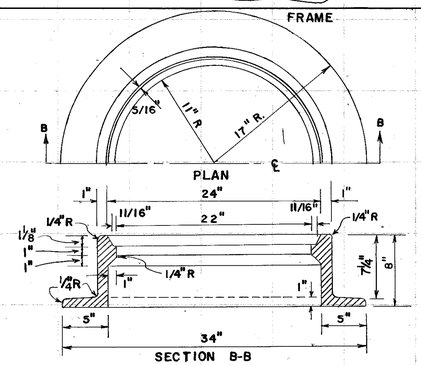
SCALE: 1 1/2" = 1'

NOTE:
STEPS ARE REQUIRED IN ALL MANHOLES WHERE "H" IS GREATER THAN 4'-0" NUMBER AND LOCATION OF STEPS TO BE AS DIRECTED BY THE ENGINEER. PLASTIC OR RUBBER COATED STEPS LISTED IN THE GA. D.O.T. QUALIFIED PRODUCTS MANUAL MAY BE SUBSTITUTED.

DEPTH LIMITS FOR INCREASING WALL THICKNESS



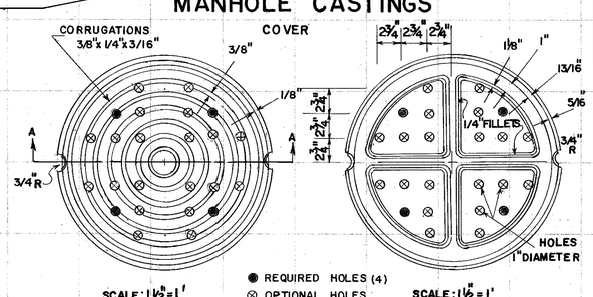
MANHOLE CASTINGS



SCALE: 1 1/2" = 1"

APPROXIMATE WEIGHTS

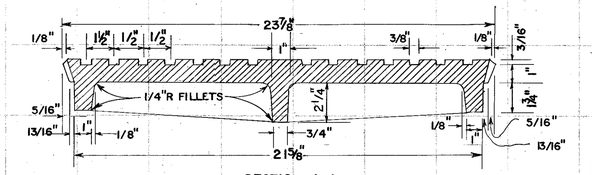
C.I. FRAME	282 LBS.
C.I. COVER	178 LBS.



SCALE: 1 1/2" = 1' TOP

● REQUIRED HOLES (4)
⊗ OPTIONAL HOLES

SCALE: 1 1/2" = 1' BOTTOM



SECTION A-A

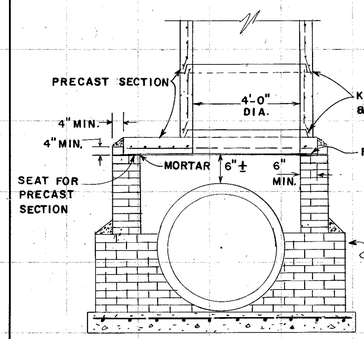
SCALE 3" = 1'

NOTE: COVER AND FRAME MUST BE FITTED BEFORE LEAVING SHOP. PAINT ACTUAL WEIGHT OF EACH CASTING ON ITS FACE.

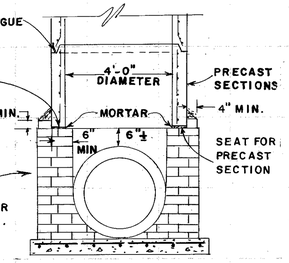
MANHOLE FRAME & COVER SHOWN ON STD. 1011 A PRECAST MAY BE USED AN ALTERNATE TO CASTINGS SHOWN HERE.

ALTERNATE - COMBINATION BRICK & PRECAST MAN HOLES

NOTES FOR COMBINATION MANHOLE:
— BRICK PORTION OF MANHOLE WILL BE CONSTRUCTED WITH SEAT TO GIVE BEST POSSIBLE FIT FOR PRECAST UNIT. MINIMUM THICKNESS FOR BRICK WALL WILL BE 12" FOR H TO 20 FT. AND 16" FOR H=20 FT. TO 30 FT.
— PRECAST UNIT WITHOUT TONGUE OR GROOVE AT BOTTOM SHALL BE PLACED IN BRICK SEAT WITH MORTAR IN JOINT ALL ROUND. BRICK BASE SHALL SET FOR 24 HOURS MIN. BEFORE PRECAST SECTIONS ARE INSTALLED.
— STEPS IN THE BRICK PORTION OF MANHOLE WILL BE IN ALIGNMENT WITH AND MATCH THE STEPS IN THE PRECAST SECTIONS RATHER THAN AS SHOWN FOR THE ALL BRICK MANHOLES.



SEE STANDARD 1011A PRECAST FOR PRECAST MANHOLE DETAILS.



41-0001

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
BRICK MANHOLES

SCALE AS SHOWN — REV. & R.E.D.R. OCTOBER, 1981

DES. R-58
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

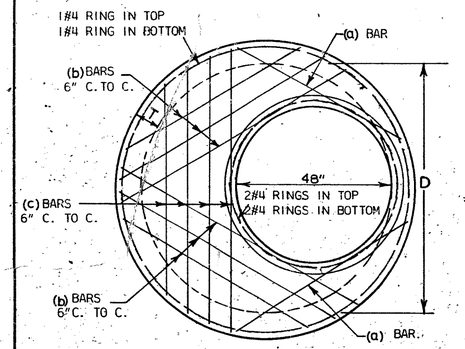
(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moreland
STATE HIGHWAY ENGINEER

NUMBER 1011A

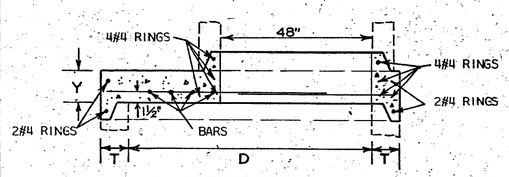
TELEPHONE POST N3121

FORM EF6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

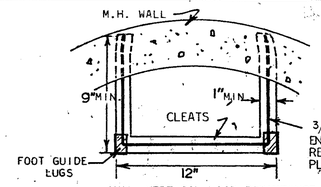


PLAN OF STEEL REINFORCEMENT



SECTIONAL DETAIL
REDUCER SLAB

D = INSIDE DIAMETER OF BASE UNIT



STEP SHALL BE OF TYPE APPROVED BY GA. D.O.T. OFFICE OF MATERIALS AND RESEARCH.

3/8 Ø REINFORCING ROD(MIN) ENCASED IN A CORROSION-RESISTANT RUBBER OR PLASTIC

MIN. VERTICAL LOAD RESISTANCE = 400 LBS.
MIN. PULLOUT RESISTANCE = 700 LBS.

STEP DETAIL

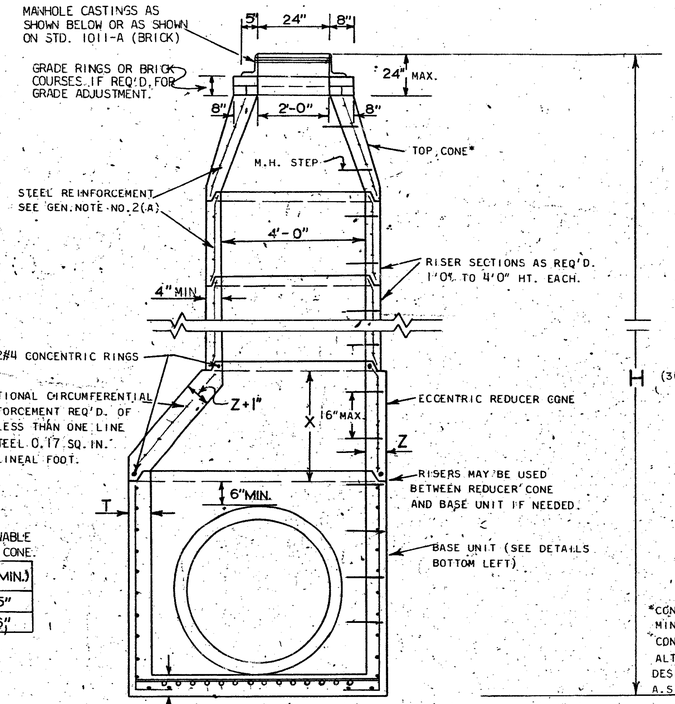
D	Y MIN.	(a) BARS No.	(a) BARS SIZE	(b) BARS No.	(b) BARS SIZE	(c) BARS No.	(c) BARS SIZE
60"	8"	2	#6	4	#6	2	#6
72"	9"	2	#6	6	#6	4	#6

NOTE: 10 FT. MAXIMUM ALLOWANCE COVER ABOVE TOP OF REDUCER SLABS. REDUCER CONES TO BE USED WHERE REDUCER SLABS NOT PERMITTED.

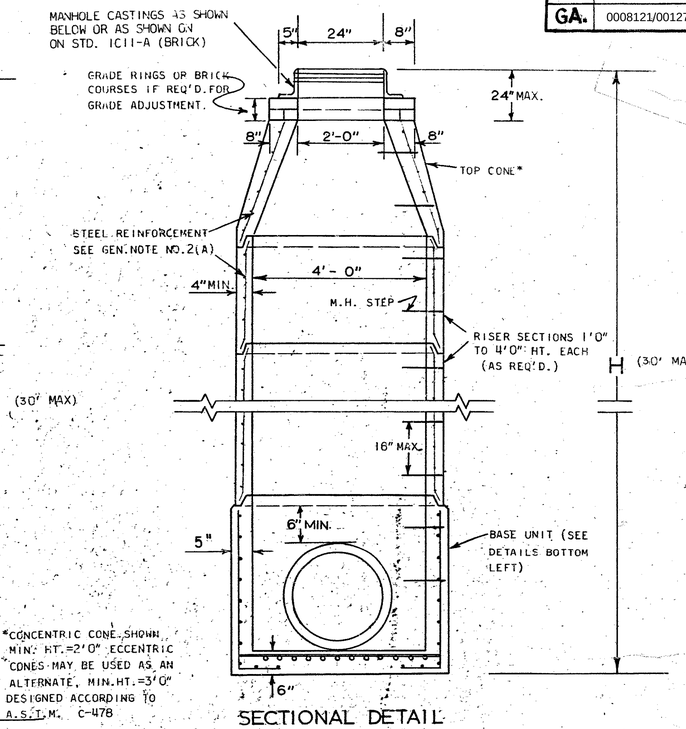
NOTE:
25 FT. MAXIMUM ALLOWABLE COVER ABOVE REDUCER CONE.

D	X (MIN.)	Z (MIN.)
60"	1'-6"	5"
72"	3'-0"	6"

STEPS ARE REQUIRED IN ALL MANHOLES OVER 4 FT. IN HEIGHT.



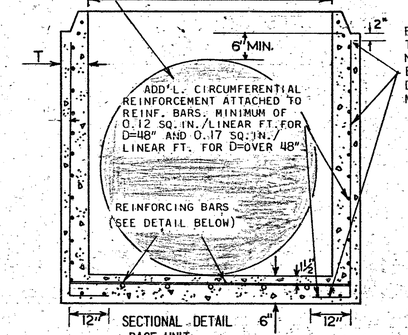
SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=OVER 48")



*CONCENTRIC CONE SHOWN MIN. HT. = 2'0" ECCENTRIC CONES MAY BE USED AS AN ALTERNATE, MIN. HT. = 3'0" DESIGNED ACCORDING TO A.S.T.M. C-478

SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=48")

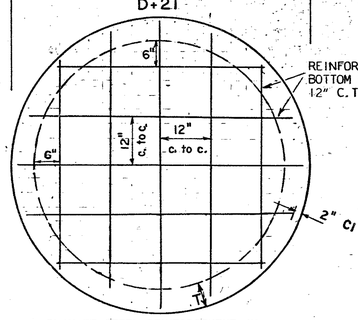
PRECAST HOLE FOR PIPE. SEE GEN. NOTES NO. 3, 4, & 5



SECTIONAL DETAIL
BASE UNIT

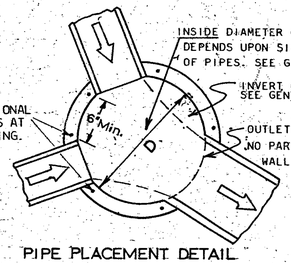
BASE UNIT SHALL CONTAIN IN ADDITION TO A.S.T.M. C-478 REINFORCEMENT, TWO NO. 5 VERTICAL BARS AT EACH OPENING EXTENDING FROM WITHIN 2" OF JOINT DOWN WALL INTO BOTTOM SLAB AS SHOWN MINIMUM 2" CLEARANCE ALL AROUND.

D	T (MIN)
48"	5"
60"	5"
72"	6"

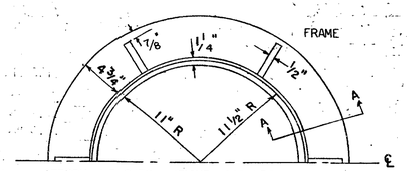


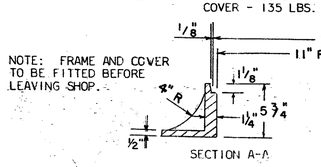
PLAN OF STEEL REINFORCEMENT IN BOTTOM SLAB

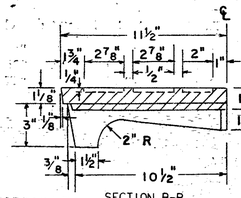
BASE UNIT



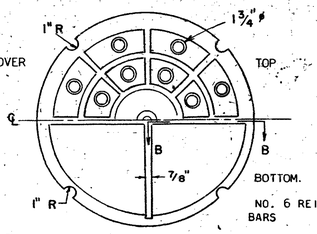
PIPE PLACEMENT DETAIL

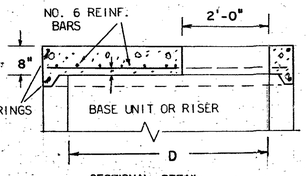




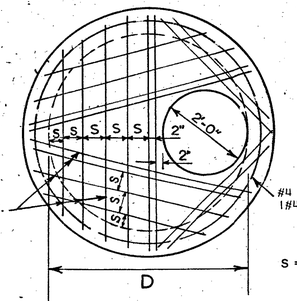


MANHOLE CASTINGS (C.I.)





SECTIONAL DETAIL



PLAN OF REINFORCING STEEL

FLAT TOP SLAB IS FOR USE IN AREA OF MINIMUM COVER ONLY. MAXIMUM HEIGHT OF MANHOLE WITH FLAT TOP SLAB SHALL BE 4 FT. ABOVE TOP OF HIGHEST ENTERING PIPE.

FLAT TOP SLAB

GENERAL NOTES:

1. MATERIALS: ALL CONCRETE, STEEL BARS AND STEEL WIRE REINFORCEMENT SHALL COMPLY WITH SECTION 866.02 OF GEORGIA STANDARD SPECIFICATIONS AND SPECIAL PROVISION WHICH MODIFY SECTION 866.02.
2. REINFORCEMENT:
   (A) PLACEMENT AND DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C-478 UNLESS OTHERWISE NOTED.
   (B) BASE UNITS, REDUCER SLABS AND FLAT TOP SLABS SHALL HAVE STEEL REINFORCEMENT AS SHOWN IN DETAILS AT LEFT.
3. OPENINGS FOR PIPES LARGER THAN 6 INCHES IN DIAMETER ARE TO BE PRECAST. A MINIMUM OF 6" ALONG THE INTERCIRCUMFERENCE IS TO REMAIN BETWEEN THE EXTREMITIES OF HOLE FOR ADJACENT PIPE IN ANY SINGLE UNIT. A MINIMUM OF TWO REINF. BARS SHALL REMAIN IN WALL BETWEEN ANY TWO OPENINGS.
4. THE CONTRACTOR WILL FURNISH THE FABRICATOR WITH THE ANGLE OF ALINEMENT AND SIZE OF ALL PIPES TO ENTER MANHOLE AND THE HEIGHT OF STRUCTURE.
5. BASE UNITS SHALL HAVE SUFFICIENT HEIGHT TO ALLOW FOR MINIMUM OF 6" OF WALL BETWEEN TOP OF HIGHEST OPENING FOR PIPES AND BOTTOM OF JOINT.
6. INVERT CHANNELS:
   (A) FOR SANITARY SEWER MANHOLES SEE GEORGIA STANDARD SPECIFICATIONS FOR CHANNEL REQUIREMENTS.
   (B) FOR STORM SEWER MANHOLES, CHANNELS BUILT TO SUIT PIPE SIZES AND LOCATION. HEIGHT OF CHANNEL EQUAL TO 1/2 DIAMETER OF OUTLET PIPE. CHANNEL BUILT FROM GROUT OR CLASS "A" CONCRETE.
7. PIPES ARE TO BE EXTENDED INTO STRUCTURE WALL A MINIMUM OF 4" BUT SHOULD NOT EXTEND BEYOND INTERIOR WALL OF STRUCTURE.
8. ALL JOINTS, EXCEPT FOR GRADE RINGS AND TOP OF TOP CONE, SHALL HAVE TONGUE AND GROOVE SECTION.

REVISIONS & CASTINGS & BASE U.	DATE	BY
	6-1-75	R M U

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST REINFORCED CONCRETE MANHOLE

NO SCALE — AUGUST, 1973

DESIGNED: GCL — RMU
DRAWN: RMJ
CHECKED: JEC

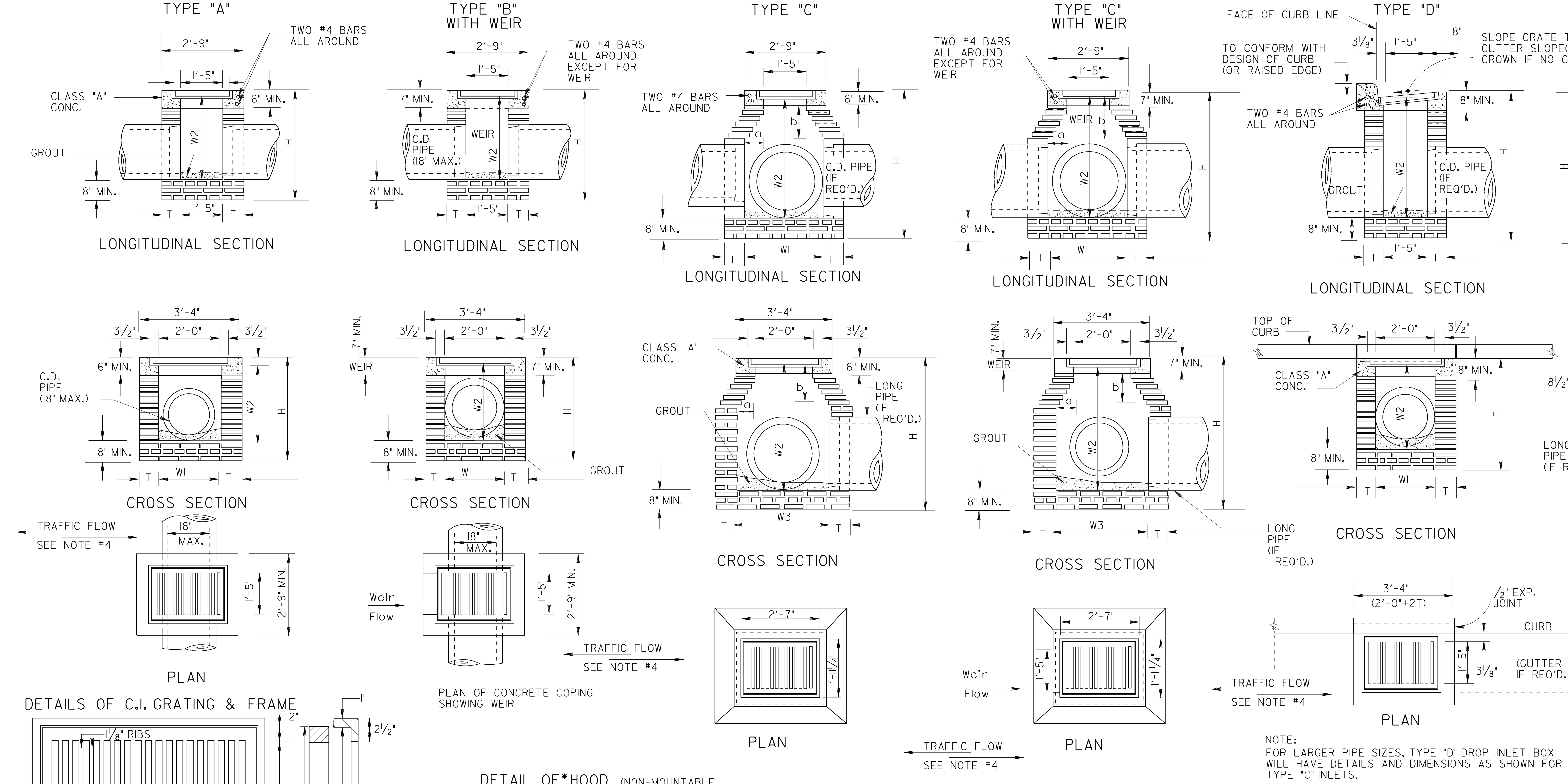
SUBMITTED: J. S. Kratzer
STATE ROAD DESIGN ENGINEER

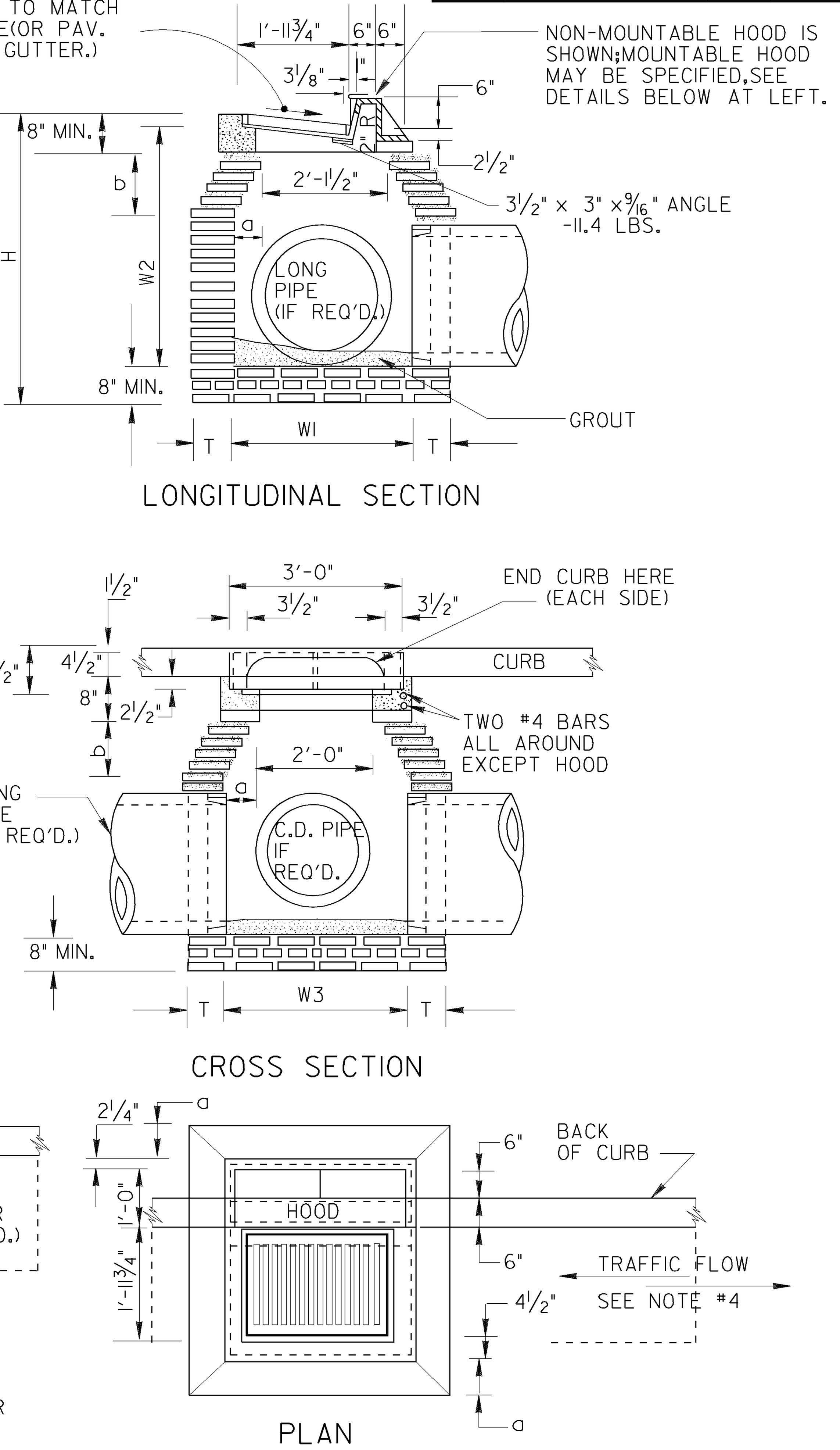
APPROVED:
STATE HIGHWAY ENGINEER

NUMBER 1011-A PRECAST

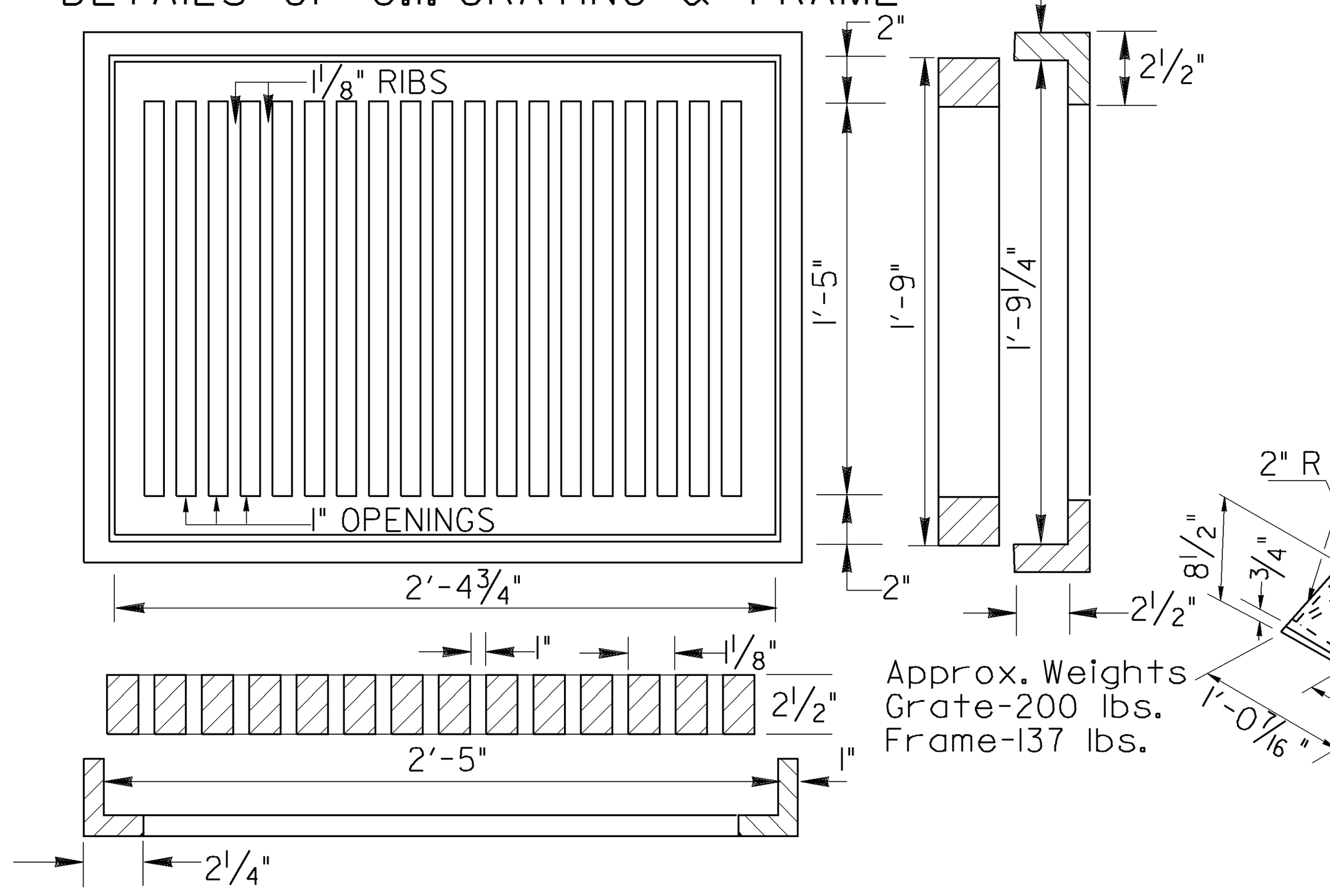
41-0002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

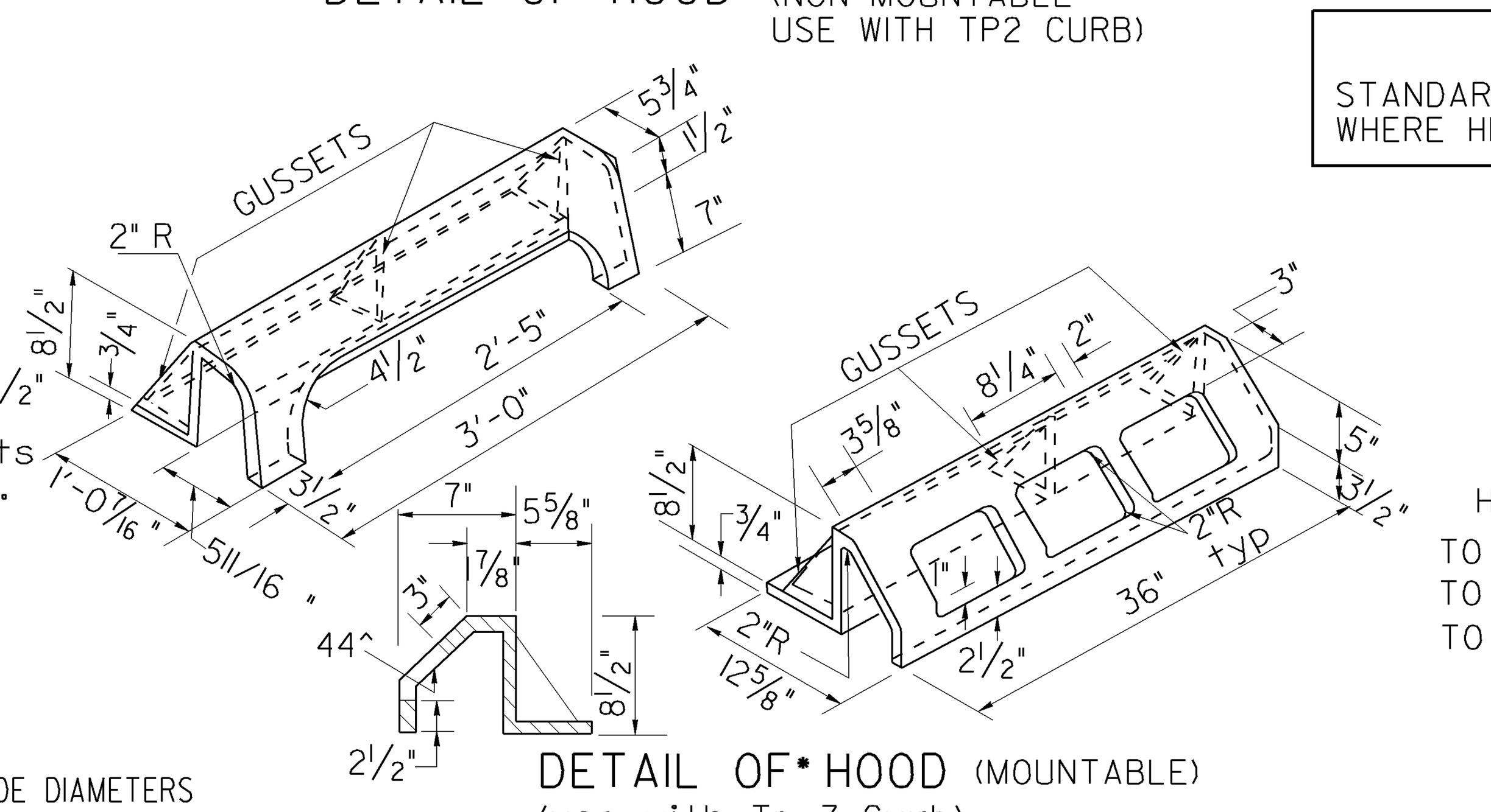




DETAILS OF C.I. GRATING & FRAME



DETAIL OF* HOOD (NON-MOUNTABLE USE WITH TP2 CURB)



DETAIL OF* HOOD (MOUNTABLE)
(use with Tp 7 Curb)

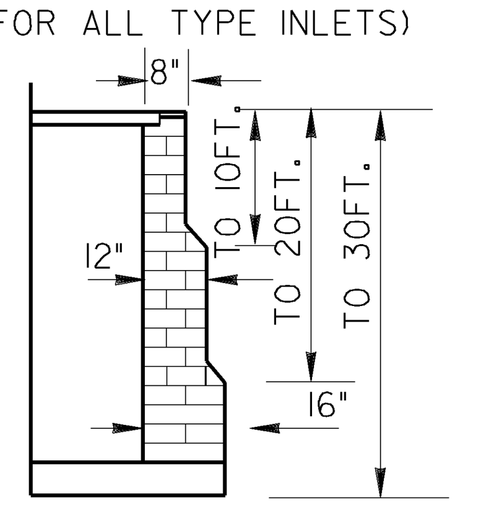
* CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

SPECIAL NOTE:

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

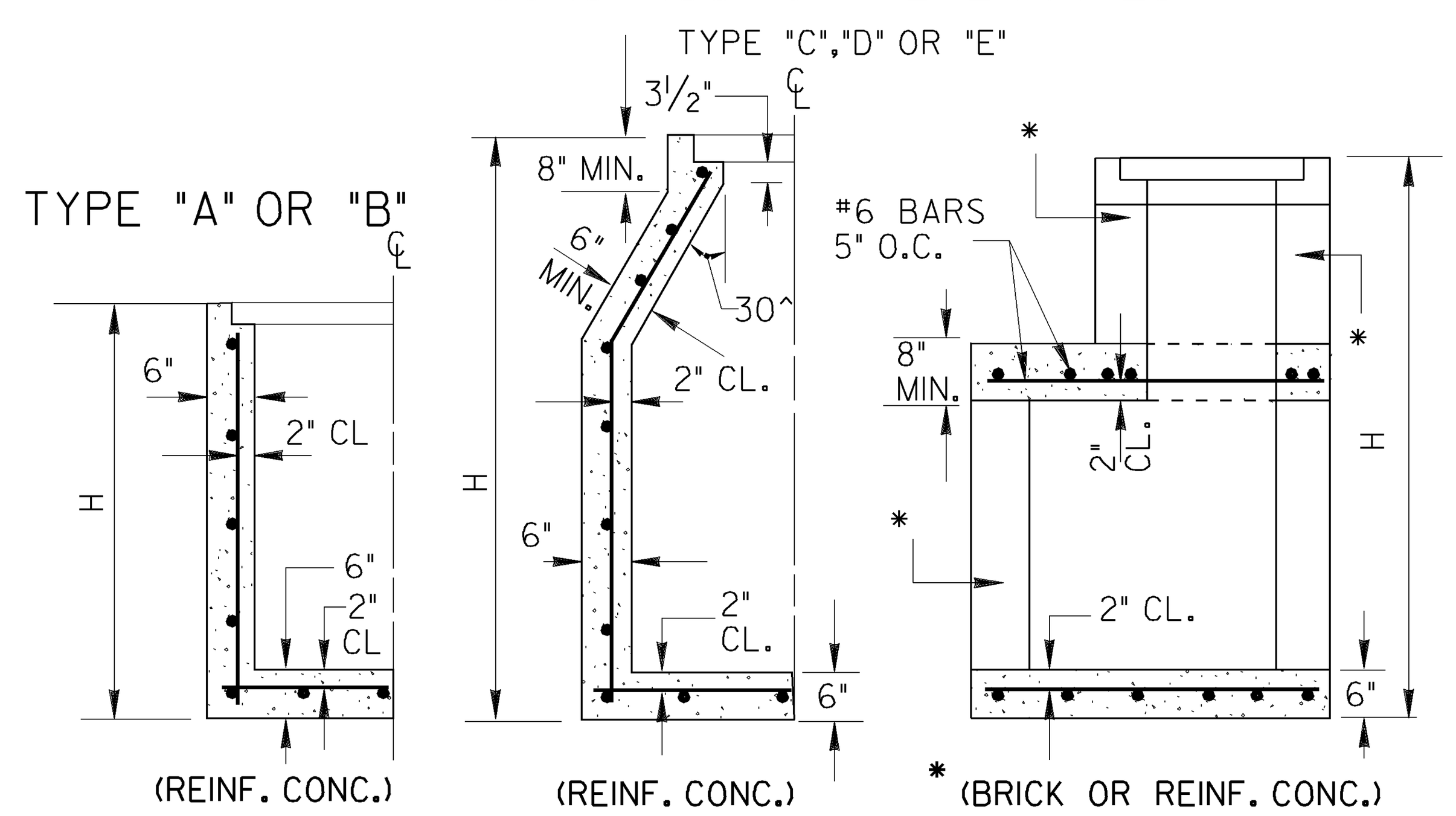
BRICK WALL THICKNESSES
(FOR ALL TYPE INLETS)

H	T
TO 10'	8"
TO 20'	12"
TO 30'	16"



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

CONSTRUCTION ALTERNATES



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

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

GENERAL NOTES:

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

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

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" or "B" BRICK OR REINF. CONC.			TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C","D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(min)	W1	W2	W3	a (MAX.)	b	H(min.)	W1	W2	W3	a (MAX.)	b	H(min.)	W1 type "C"	W1 type "E"	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3 1/2"	2'-2 1/8"	2'-11"	2'-9 1/8"	0'-4 9/16"	0'-7 7/8"	3'-9 1/2"	3'-2 1/8"	3'- 1"	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	3'-11 1/2"	2'- 0"	2'- 1"	2'- 7"	2'- 0"	3 1/2"	6"	3'- 6"
18"	2'- 0"	2'-10"	3'- 7"	2'-2 1/8"	3'-2 1/2"	2'-9 1/8"	0'-4 9/16"	0'-7 7/8"	4'-1"	3'-2 1/8"	3'-4 1/2"	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	4'- 1"	2'- 0"	2'- 1"	3'- 0"	2'- 0"	3 1/2"	6"	3'-11"
24"	~	~	~	2'-8 1/8"	3'-3 1/8"	3'-3 1/8"	0'-7 9/16"	1'-1 1/8"	4'- 9"	3'-2 1/8"	3'-11 1/2	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	4'-8 1/4"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6 1/2"	11 1/4"	4'- 7"
30"	~	~	~	3'-7 1/4"	4'-0 1/4"	3'-10 1/16"	1'-0 1/8"	1'- 9"	5'-10"	3'-5 1/2"	4'-8 3/8"	3'- 4"	0'- 8"	1'-1 7/8"	5'-6 7/8"	3'- 4"	3'- 6"	4'- 9"	3'- 0"	9 1/2"	16 1/2"	5'-10"
36"	~	~	~	4'-1 7/8"	6'-0 5/8"	4'-8 7/8"	1'-4 7/16"	2'-2 1/4"	6'-11 1/8"	3'-11 1/2	5'-8 9/16"	3'-10"	0'-11"	1'-7 1/16"	6'-7 1/16"	3'-10"	4'- 0"	5'-10"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	~	~	~	4'-5"	7'-1 3/4"	5'- 0"	1'- 6"	2'-7 3/16"	8'-0 1/4"	4'-6 1/2"	7'-5 11/16"	4'- 5"	1'-2 1/2"	2'-1 3/16"	8'-4 3/16"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-5 1/2"	7'-11"
48"	~	~	~	5'- 0"	8'-2 3/4"	5'- 7"	1'-9 1/2"	3'-1 1/4"	9'-1 1/4"	5'-1 1/2"	8'-6 11/16"	5'- 0"	1'- 6"	2'-7 3/16"	9'-5 3/16"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9 1/2"	3'-1 1/2"	9'- 2"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-7 1/2"	10'-2 1/2"	5'-8 1/2"	9'-7 3/4"	5'- 7"	1'-9 1/2"	3'-1 1/4"	10'-6 1/4"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0 1/2"	3'-6 1/2"	10'- 0"
60"	~	~	~	6'- 2"	1'-4 7/8"	6'- 9"	2'-4 1/2"	4'-1 3/8"	11'-3 1/4"	6'-3 1/2"	10'-8 13/16"	6'- 2"	2'- 1"	3'-7 5/16"	11'-7 5/16"	6'- 0"	6'- 0"	10'- 3"	6'- 0"	2'-3 1/2"	4'- 0"	11'- 1"

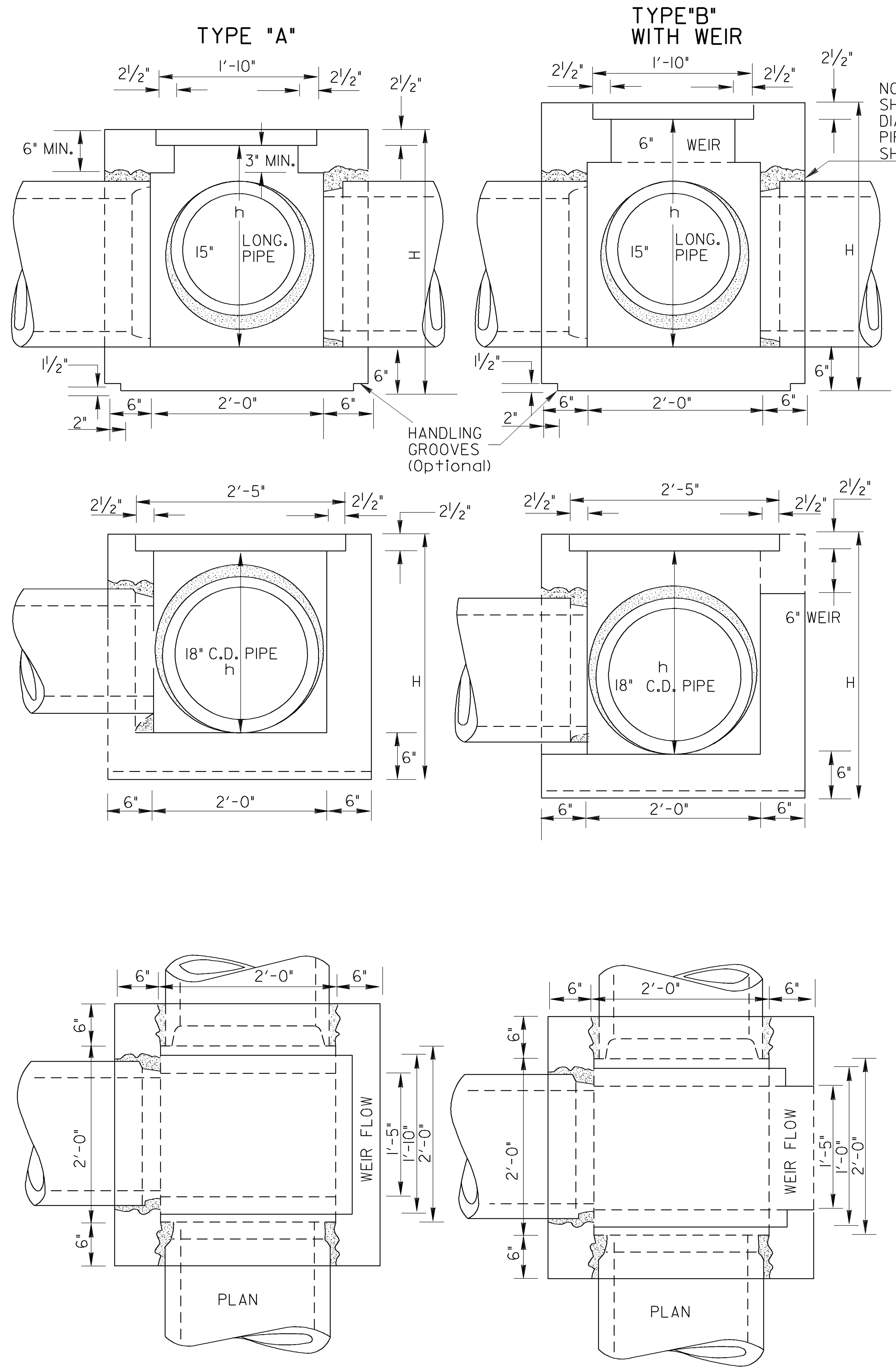
41-0003

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISION	STANDARD DROP INLETS (BUILT-IN-PLACE)
	SCALE AS SHOWN — REV. & REDR. AUG., 1999
BY	DES. ___ REV. ___ TRA. ___ CHK. ___ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. (APPROVED) CHIEF ENGINEER
NUMBER	1019A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

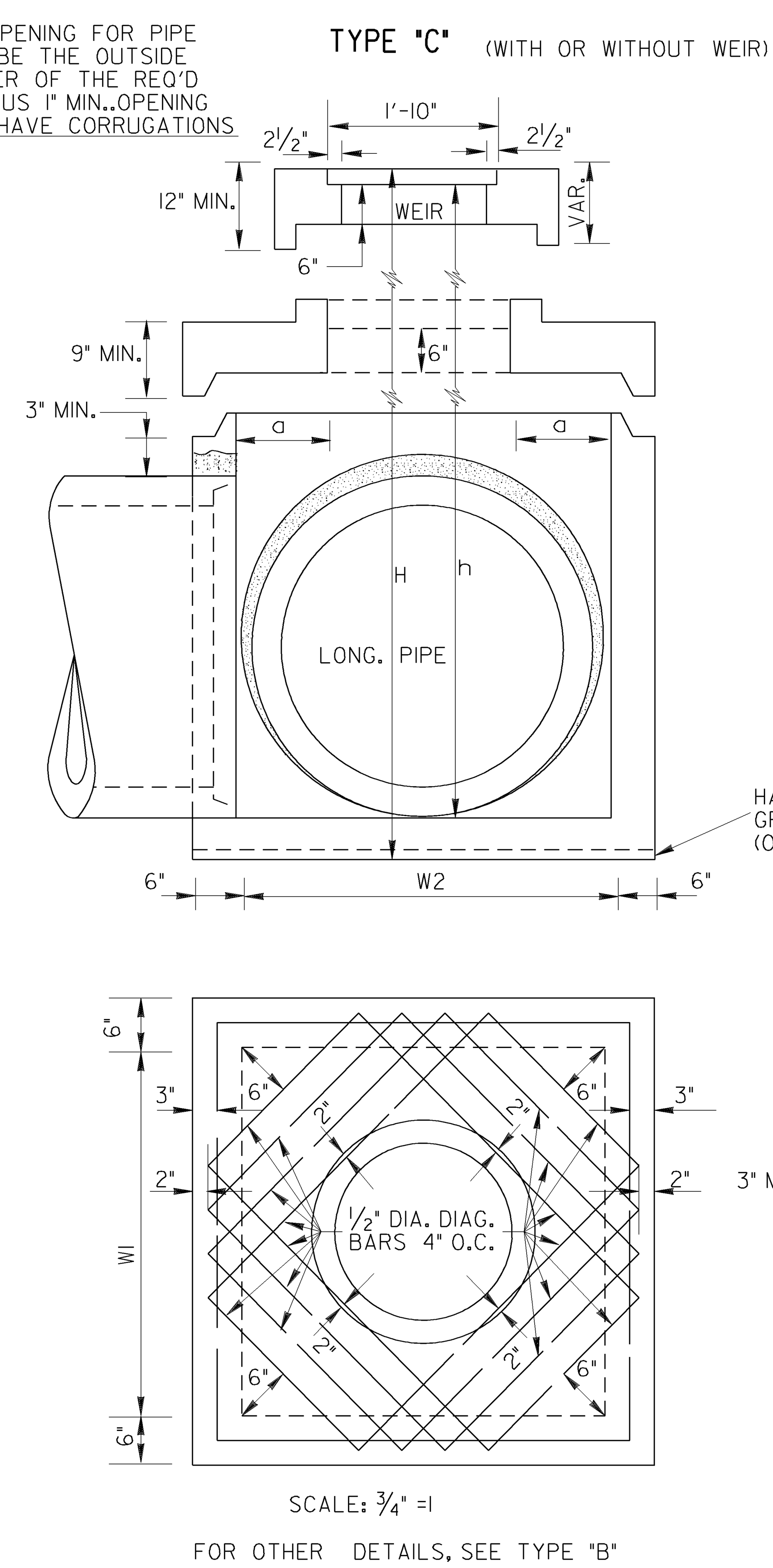
NOTE:
SEE STANDARD 1019-A- BRICK DROP INLETS- FOR DETAIL OF GRATING FRAME, HOOD, ETC., WHERE NEEDED.

NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQ'D PIPE PLUS 1" MIN.. OPENING SHALL HAVE CORRUGATIONS



SCALE: 1" =1'

SCALE: 1" =1'



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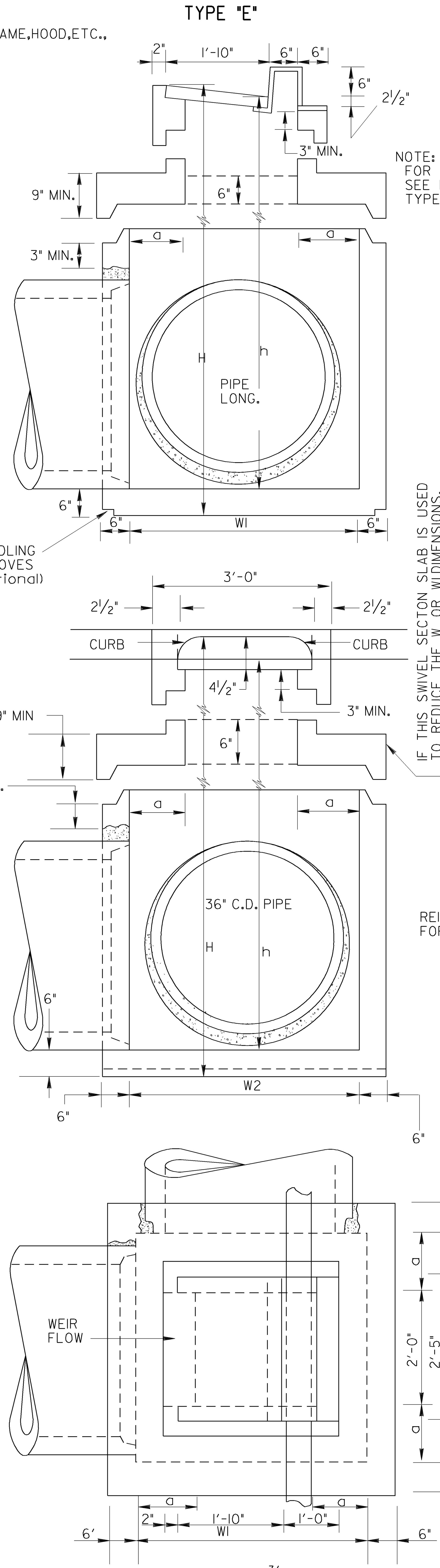
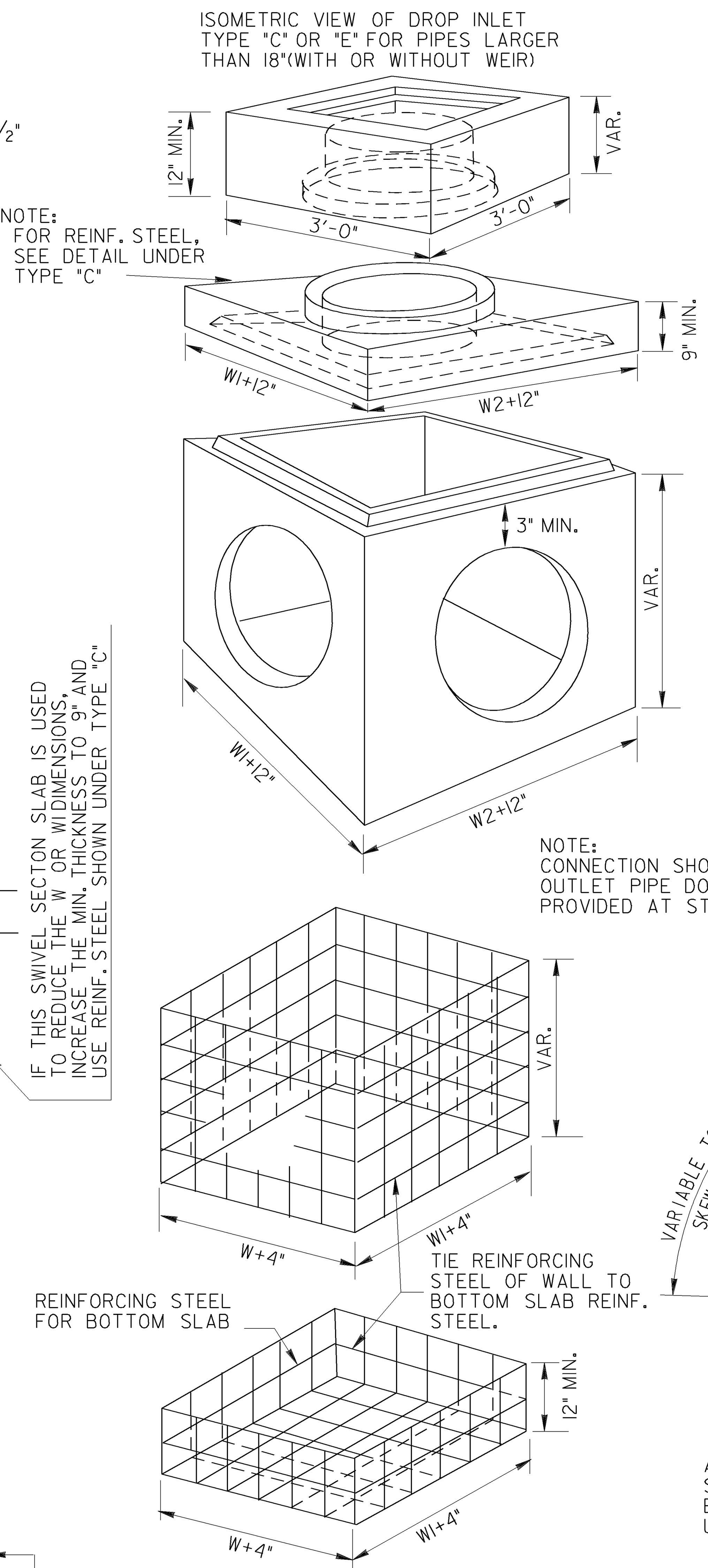
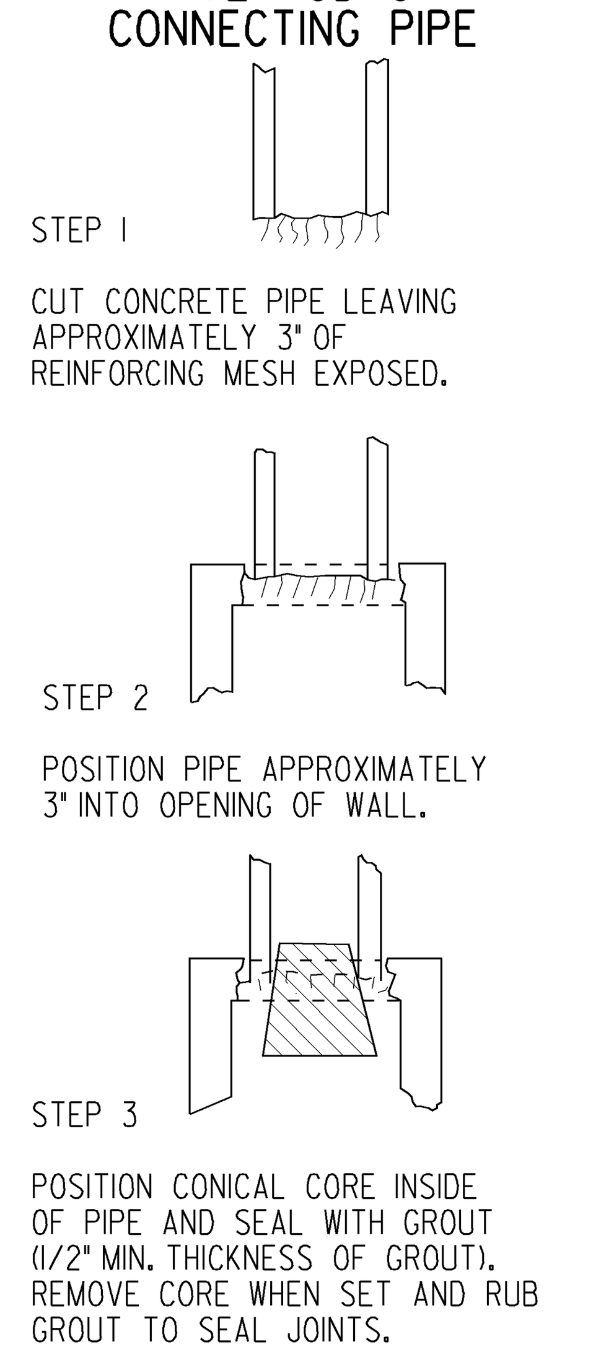
FOR OTHER DETAILS, SEE TYPE "B"



SCALE: 3/4"=1'

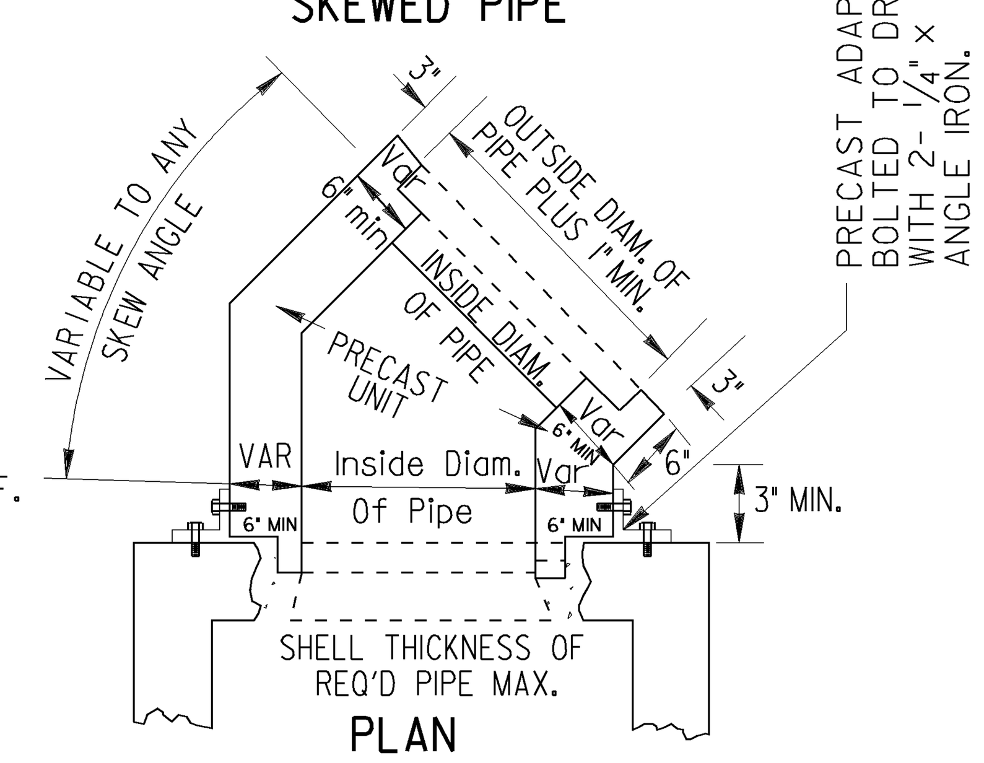


METHOD OF CONNECTING PIPE



NOTE:
CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.

ALTERNATE METHOD OF CONNECTION SKEWED PIPE



PLAN

ALTERNATE METHODS OF CONNECTING SKEWED PIPES MAY INCLUDE PIPE ELBOWS OR CIRCULAR PRECAST BASE UNITS. SEE SEPARATE STANDARDS.

NOTE: REINFORCING STEEL SHALL BE No. 4 STEEL BARS AT 12" O.C. BOTH WAYS OR EQUIVALENT WIRE FABRIC REINFORCING.

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

DIMENTIONS FOR DROP INLETS

PIPE SIZE	TYPE "A"		TYPE "B"		TYPE "C"				TYPE "E"			
	MIN. h	MIN. H	MIN. h	MIN. H	W1orW2	a	MIN. h	MIN. H	W1orW2	a	MIN. h	MIN. H
15"	2'- 0"	2'-8 1/2"	2'- 7"	3'-3 1/2"	2'- 0"		2'-7"	3'-3 1/2"	2'- 0"		2'-7"	3 - 3 1/2"
18"	2'-3 1/2"	3'- 0"	2'-10"	3'-6 1/2"	2' - 0"		2'-10"	3'-6 1/2"	2'- 0"		2'-10"	3 - 6 1/2"
24"					3' - 0"	0'- 6"	4'- 3 1/2"	5'- 0"	3'- 0"	0'- 6"	4'- 7"	5 - 3 "
30"					3' - 6"	0'- 9"	4'-10 1/2"	5'- 7"	3'- 6"	0'- 9"	5'- 2"	5 - 10"
36"					4' - 0"	1'- 0"	5'- 5 1/2"	6'- 2"	4'- 0"	1'- 0"	5'- 9"	6 - 3 "
42"					4' - 6"	1'- 3"	6'-1/2	6'- 8"	4'- 6"	1'- 3"	6'- 4"	7 - 0 "
48"					5' - 0"	1'- 6"	6'- 7 1/2"	7'- 3"	5'- 0"	1'- 6"	6'- 11"	7 - 7 "
54"					5' - 6"	1'- 9"	7'- 2 1/2"	7'-10"	5'- 6"	1'- 9"	7'- 6"	8 - 2 "
60"					6' - 0"	2'- 0"	7'- 9 1/2"	8'- 5"	6'- 0"	2'- 0"	8'- 1"	8 - 9 "

NOTE:
SEE STANDARD 1019A (BRICK) AND STANDARD 1040 FOR CONSTRUCTION ALTERNATES BRICK MASONRY AND CIRCULAR PRECAST SECTIONS RESPECTIVELY.

41-0004

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST DROP INLETS

SCALE AS SHOWN

AUG. 1999

DESIGNED ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
DRAWN ____
TRACED ____
CHECKED ____ (APPROVED) CHIEF ENGINEER

NUMBER 1019A PRECAST

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

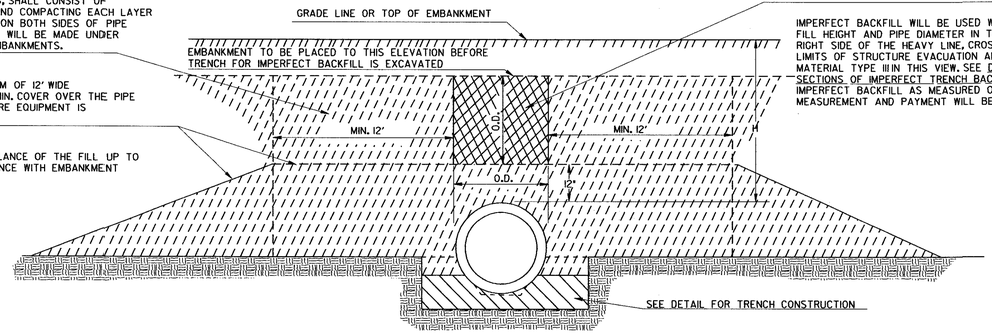
NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

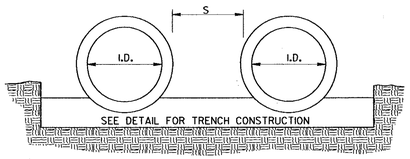
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. I FALLS ON THE RIGHT SIDE OF THE HEAVY LINE. CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

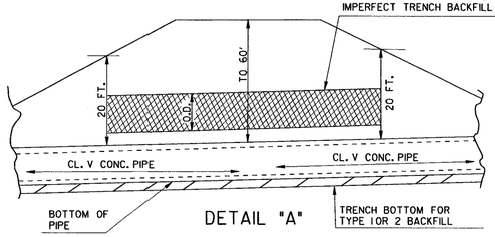


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

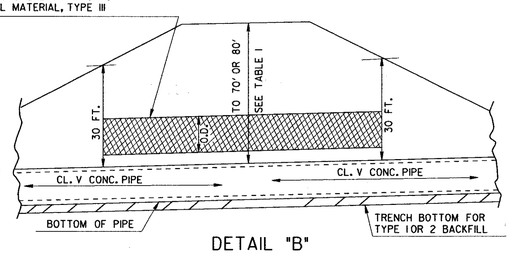
CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



DETAIL "A"

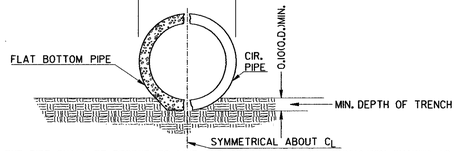
(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)



DETAIL "B"

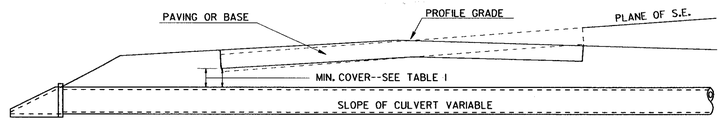
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN

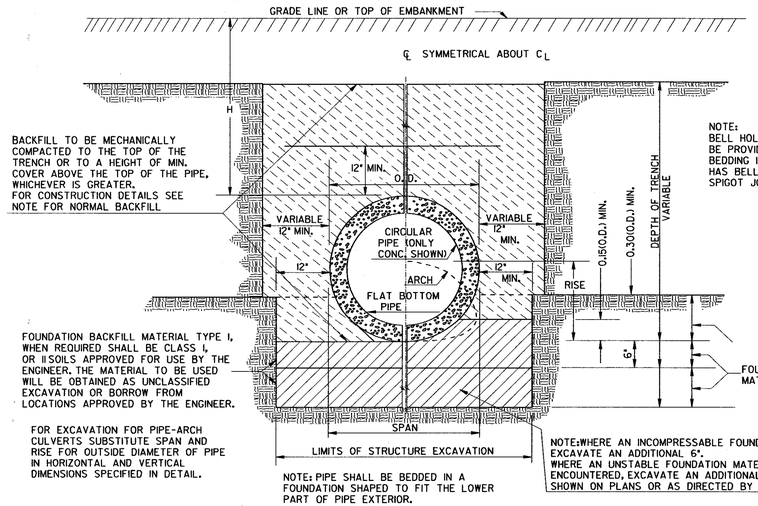


NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSABLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



TRENCH CONSTRUCTION FOR STORM DRAIN.



NOTE:
BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE:
TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

41-0005

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE — REV. & REDR.: SEPT., 2001

DATE / REVISION / BY

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Kennel — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Genl L Faddis — CHIEF ENGINEER

NUMBER 1030D

TABLE NO. I ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE 1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	PIPE DIAMETER (INCHES)
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		12
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM I	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		15
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM I	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		18
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM I	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		24
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM I	12	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		30
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM I	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135			
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		36
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM I	12	.075	.105	.105	.105	.105	.105	.135	.135	.135	.135			
	ALUM 2	12	.060	.060	.060	.060	.075	.075	.105	.105	.105	.135			
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		42
	STEEL I	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	
	ALUM I	12	.105	.105	.135	.135	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.105	.135	.135			
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		48
	STEEL I	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	ALUM I	12	.105	.105	.135	.164	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.135	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		54
	STEEL I	12	.079	.079	.079	.079	.079	.079	.079	.109	.138	.138	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	ALUM I	15	.105	.105	.135	.164	.164	.164							
	ALUM 2	15	.060	.060	.060	.075	.075	.105	.135	.135	.164	.164			
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		60
	STEEL I	12	.109	.109	.109	.109	.109	.109	.109	.109	.138	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.079	.109	.138	.138	.168	.168	
	ALUM I	15	.135	.135	.164	.164	.164	.164							
	ALUM 2	15	.060	.060	.075	.105	.105	.135	.135	.164	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			66
	STEEL I	12	.138	.138	.138	.138	.138	.138	.138	.138	.168	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168		
	ALUM I	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			72
	STEEL I	12	.138	.138	.138	.138	.138	.138	.138	.138	.168				
	STEEL 2	12	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168			
	ALUM I	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.164	.164	.164					
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V				78
	STEEL I	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168			
	ALUM 2	21	.075	.075	.105	.105	.135	.164	.164						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V				84
	STEEL I	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.079	.079	.109	.109	.138	.168				
	ALUM 2	21	.105	.105	.105	.135	.135	.164	.164						
90	CONCRETE	12	III	III											90
	STEEL 2	18	.064	.064	.064	.079	.109	.109	.138	.138	.168				
	ALUM 2	24	.105	.105	.135	.135	.164								
96	CONCRETE	12	III	III											96
	STEEL 2	18	.079	.079	.079	.079	.109	.109	.138	.168					
	ALUM 2	24	.105	.105	.135	.135	.164								
102	CONCRETE	12	III	III											102
	STEEL 2	24	.079	.079	.079	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164	.164										
108	CONCRETE	12	III	III											108
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164											
114	CONCRETE														114
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.168						
	ALUM 2	24	.164	.164											
120	CONCRETE														120
	STEEL 2	24	.109	.109	.109	.109	.138	.138	.168						
	ALUM 2	24	.164	.164											

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

TABLE NO. 3-(INFORMATION ONLY)

	COR. METAL THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

BY	REVISION	DATE
	GEN. REV. NOTES	9-26-01
GJP	ADDED SEAM CONST. NOTE	3-9-99

41-0006

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 2 OF 3
(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

NO SCALE OCTOBER 21, 1998

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

NUMBER 1030D

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

TABLE NO. 1 R ROUND PIPE - SPIRAL RIB STEEL - SPIRAL RIB ALUMINUM
MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL (FEET) ABOVE TOP OF PIPE											PIPE DIAMETER (INCHES)
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	
12															12
15															15
18	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079		18
	ALUM R	12	.060	.060	.060	.060	.060	.060	.075	.075					
24	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109		24
	ALUM R	12	.060	.060	.060	.060	.075	.075	.105	.105	.105				
30	STEEL R	12	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109		30
	ALUM R	15	.060	.060	.060	.075	.075	.105	.105	.105					
36	STEEL R	12	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109			36
	ALUM R	18	.060	.060	.075	.075	.105	.105	.105	.135	.135				
42	STEEL R	12	.064	.064	.064	.064	.079	.079	.109	.109	.109				42
	ALUM R	21	.075	.075	.075	.105	.105	.105	.135	.135					
48	STEEL R	12	.064	.064	.064	.079	.079	.109	.109	.109					48
	ALUM R	24	.105	.105	.105	.105	.105	.135	.135						
54	STEEL R	15	.064	.064	.064	.079	.079	.109	.109						54
	ALUM R	24	.105	.105	.105	.105	.135	.135	.135						
60	STEEL R	15	.079	.079	.079	.079	.109	.109	.109						60
	ALUM R	24	.105	.105	.105	.105	.135	.135							
66	STEEL R	18	.079	.079	.079	.109	.109	.109	.109						66
	ALUM R	24	.135	.135	.135	.135	.135								
72	STEEL R	18	.109	.109	.109	.109	.109	.109							72
	ALUM R	27	.135	.135	.135	.135	.135								
78	STEEL R	21	.109	.109	.109	.109	.109								78
84	STEEL R	21	.109	.109	.109	.109	.109								84
90															90
96															96
102															102
108															108
114															114
120															120

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 7-1/2"

TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, f_y=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (f_y=20,000 PSI), ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 IN. BECOMES 13.8 IN.)

B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FT. BECOMES 29.7-34.0 FT.)

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR ALL INSTALLATIONS.

41-0007

TABLE NO. 2 (PIPE-ARCH)

TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM PIPE-ARCH AND MAXIMUM HEIGHTS OF FILL IN FEET ABOVE THE TOP OF THE PIPE-ARCH.

DIAMETER OF PIPE OF EQUAL PERIPHERY INCH	NOM.-MIN. SPAN INCH	NOM.-MIN. RISE INCH	MIN. THICKNESS (INCHES) COR. STEEL ①	COR. STEEL ②	COR. ALUMINUM	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)
15	17	13	.064			18	13
					.060	18	15
18	21	15	.064			18	12
					.060	18	14
21	24	18	.064			18	10
					.060	18	13
24	28	20	.064			18	9
					.075	18	11
30	35	24	.064			18	9
					.075	18	9
36	42	29	.064			18	7
					.105	18	7
	40	31		.079		18	12
42	49	33	.079			18	7
					.105	18	7
	46	36	.079	.079		18	12
48	57	38	.109			18	7
					.135	18	7
	53	41		.079		18	12
54	64	43	.109			18	7
					.135	18	7
	60	46		.079		18	12
60	71	47	.138			18	7
					.164	18	7
	66	51		.079		18	12
66	77	52	.168			18	7
	73	55		.079		18	15
77	83	57	.168			18	8
	81	59		.079		18	15
78	87	63		.079		18	14
84	95	67		.109		18	12
90	103	71		.109		24	11

NOTE FOR TABLE NO. 2.
ALTERNATE SPAN-RISE COMBINATIONS FOR PIPE-ARCHES, HAVING EQUAL PERIPHERY TO THAT SHOWN, MAY BE SUBSTITUED IF LISTED IN AASHTO SPECIFICATION.

BY	REVISION	DATE

NO SCALE

DESIGNED ____ (SUBMITTED)
TRACED ____ STATE ROAD & TOLLWAY DESIGN ENGINEER
CHECKED ____ (APPROVED)
REVISED ____ CHIEF ENGINEER

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)

SEPT., 2001

NUMBER 1030D

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

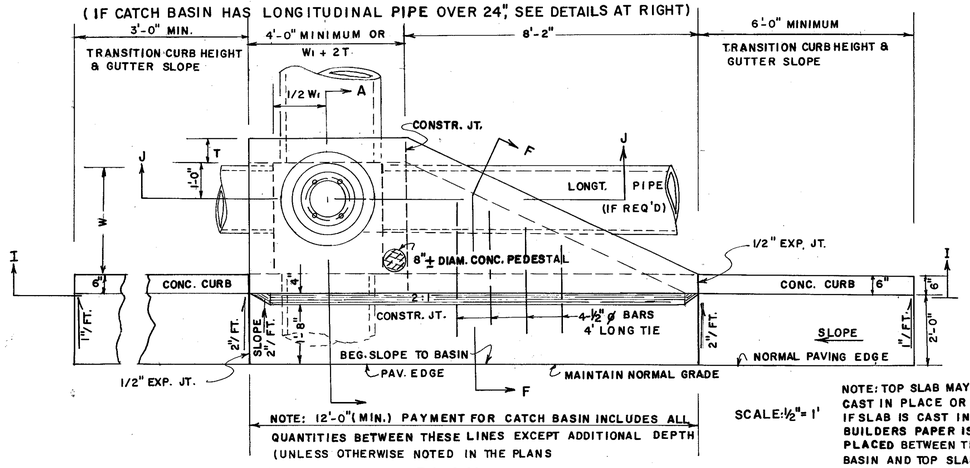
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

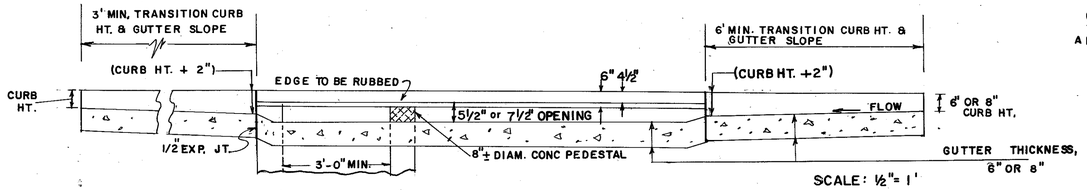


NOTE: 12'-0"(MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED IN THE PLANS

SCALE: 1/2" = 1'

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

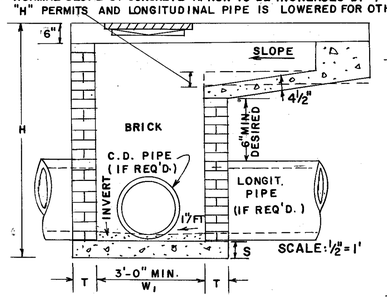
PLAN



SCALE: 1/2" = 1'

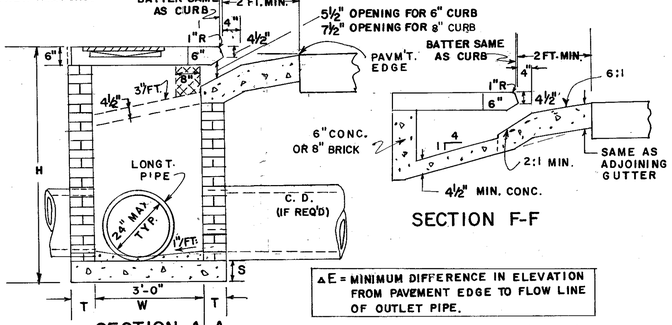
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SCALE: 1/2" = 1'

SECTION J-J

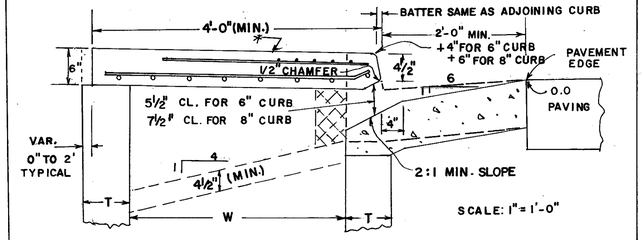


SECTION A-A

SECTION F-F

ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

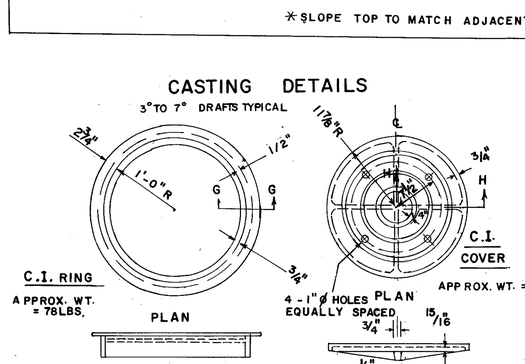
DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

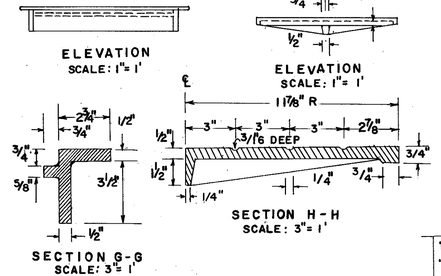


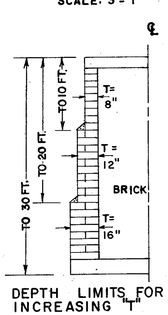
SCALE: 1"= 1'-0"

* SLOPE TOP TO MATCH ADJACENT SURFACES

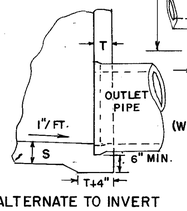
CASTING DETAILS



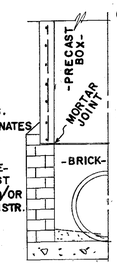




DEPTH LIMITS FOR INCREASING T



ALTERNATE TO INVERT

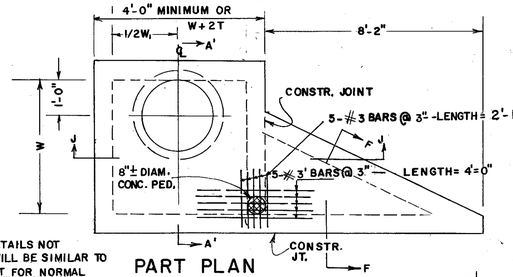


NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.

PRECAST BOX ON BRICK (HALF-SECTION)

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

CATCH BASIN - (WITH PROTRUDED BACK)

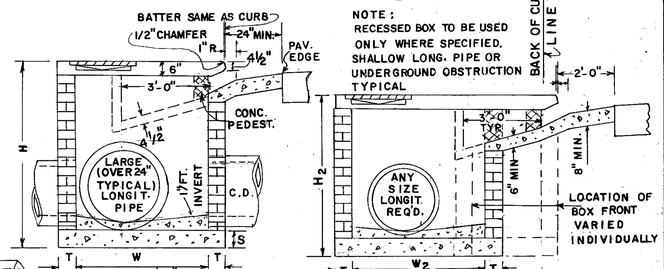


NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

PART PLAN

NO SCALE

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL

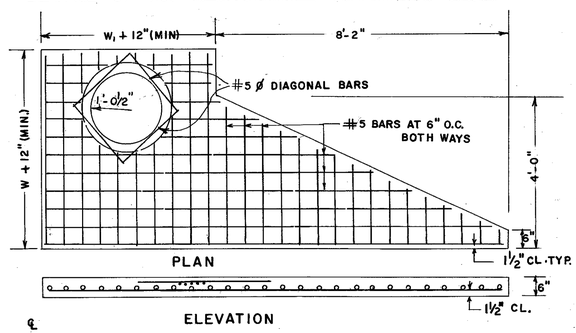


SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

SECTION A'-A' (WITH RECESSED BOX)

NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

DETAIL OF TOP REINFORCED CONCRETE SLAB

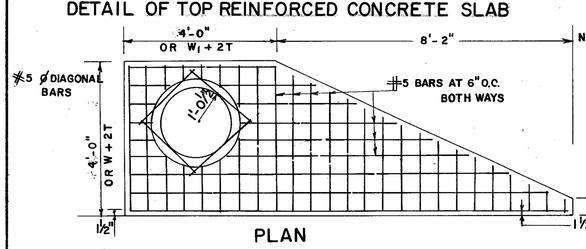


PLAN

ELEVATION

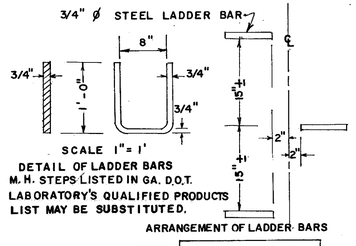
NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.



SCALE 1" = 1'

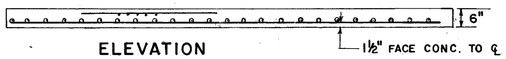
DETAIL OF LADDER BARS

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ARRANGEMENT OF LADDER BARS

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

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.



ELEVATION

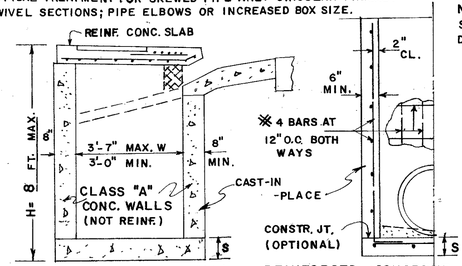
W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 #4 BARS 12" O.C. BOTH WAYS 2" CL FROM SLAB TOP	8"

PIPE DIA.	H (MIN.)	W or W1	ΔE (MIN.)
12	4'- 4"	3'-0"	3'-3"
15	4'- 7"	3'-0"	3'-6"
18	4'- 10"	3'-0"	3'-9"
24	5'- 6"	3'-0"	4'-4"
30	6'- 2"	3'-7"	5'-0"
36	6'- 10"	4'-6"	5'-7"
42	7'- 4"	5'-3"	5'-11"
48	8'- 0"	6'-0"	6'-6"
54	8'- 6"	6'-8"	7'-0"
60	9'- 2"	7'-4"	7'-7"

TYPICAL MIN. DIMENSIONS

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W, & W. DIMENSIONS DO NOT HAVE TO BE EQUAL.

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.



NON-REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONCRETE (HALF-SECTION)

CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

41-0008

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN

RED. & REDR. AUGUST, 1982

REV. & REDR.	R.M.U.	(SUBMITTED) Floyd E. Harris
TRA.	G.M.E.	STATE ROAD & AIRPORT DESIGN ENGR.
CHK.	R.K.C.	(APPROVED) Thomas D. Anderson
		STATE HIGHWAY ENGINEER

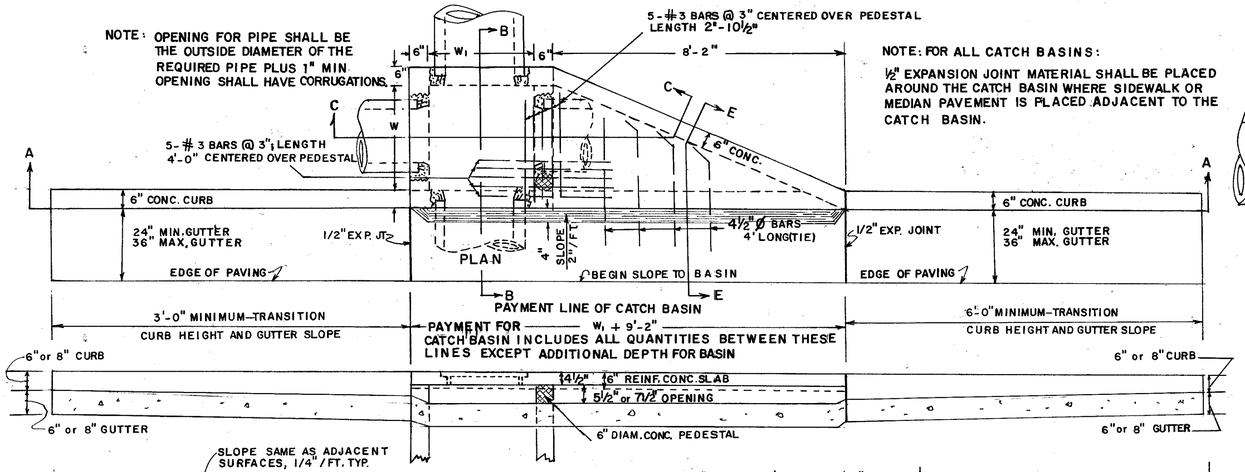
NUMBER 1033D

FORM EF3

AF 21868

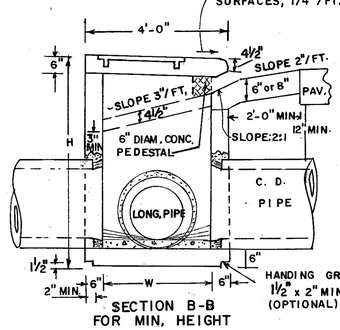
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

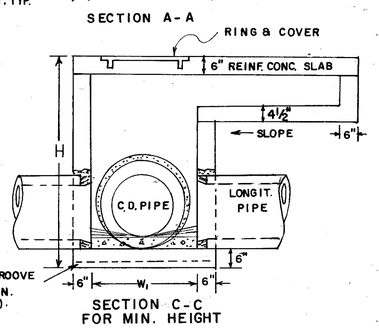
CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT.)

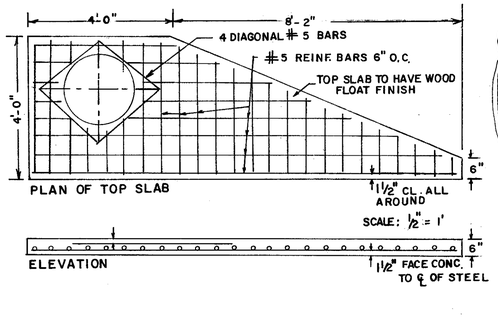


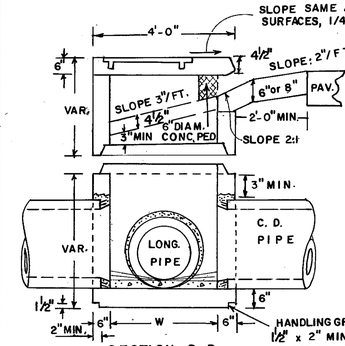
NOTE: FOR ALL CATCH BASINS:

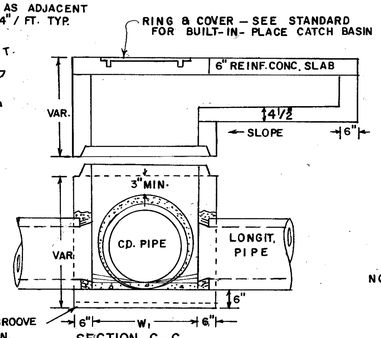
½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

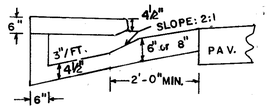


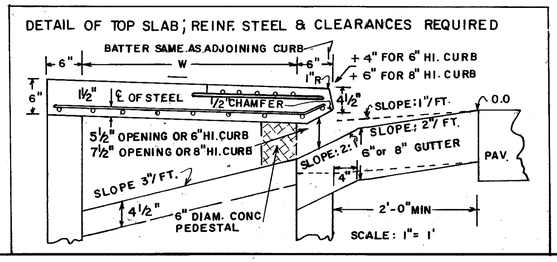




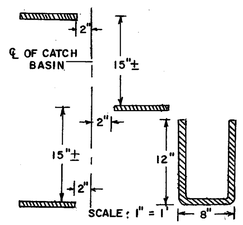






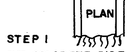


DETAIL AND ARRANGEMENT OF LADDER BARS



NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

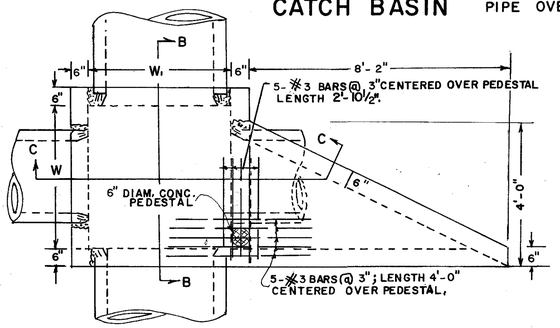
METHOD OF CONNECTING PIPE (WHERE CONCRETE PIPE HAS TO BE CUT)

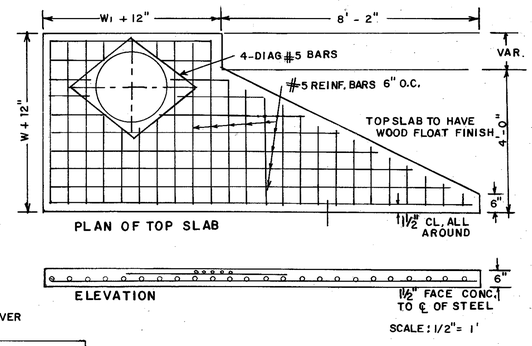


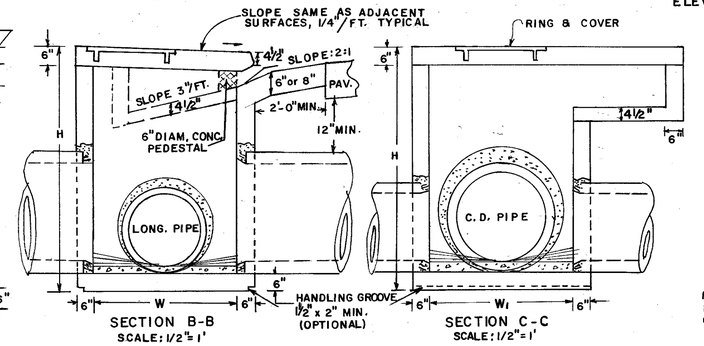
STEP 1
CUT CONCRETE PIPE, LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED

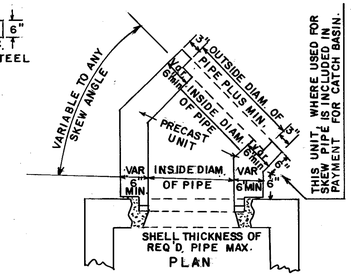
STEP 2
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL

STEP 3
POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT) REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS
NO SCALE





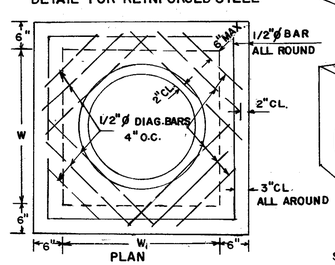




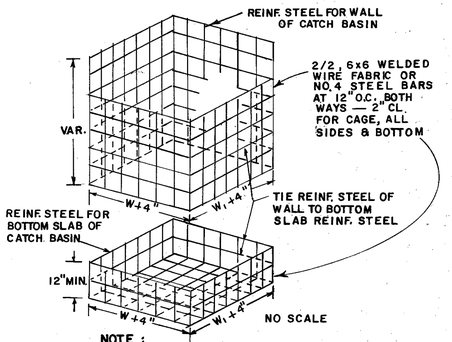
A METHOD OF CONNECTING SKEWED PIPE

IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W_1 DIMENSIONS, INCREASE THE MIN. THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.

DETAIL FOR REINFORCED STEEL

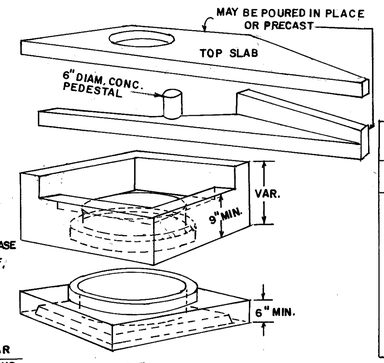


REINFORCING - ISOMETRIC VIEW



NOTE:
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

TYPICAL ISOMETRIC VIEW



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX
THE ABOVE VIEW DEPICTS PRECAST BOX. SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED, KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

DIMENSIONS FOR CATCH BASINS		
PIPE SIZE	NORMAL W OR W_1	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W_1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033D FOR BUILT-IN-PLACE CATCH BASIN.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER

SCALE AS SHOWN — REV. & REDR., SEPT., 1982

REV. & REDR. RMU	(SUBMITTED) Floyd E. Hurley — STATE ROAD & AIRPORT DESIGN ENGR
TRA GME	(APPROVED) Thomas D. Moreland — STATE HIGHWAY ENGINEER
CHK RKC	

NUMBER 1033D PRECAST

FORM EF3

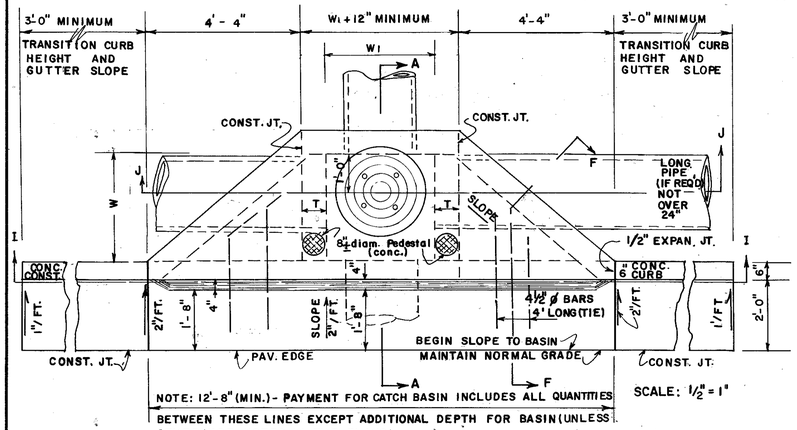
41-0009

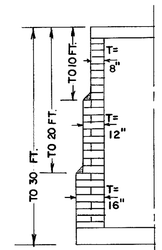
AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

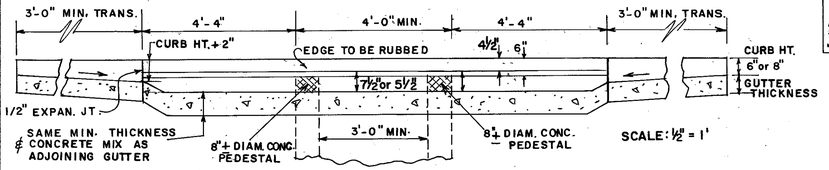
CATCH BASIN

(FOR CATCH BASIN WITH LONGIT. PIPE OVER 24", SEE DETAILS AT RIGHT.)

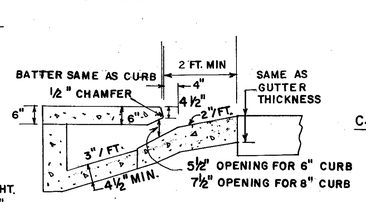




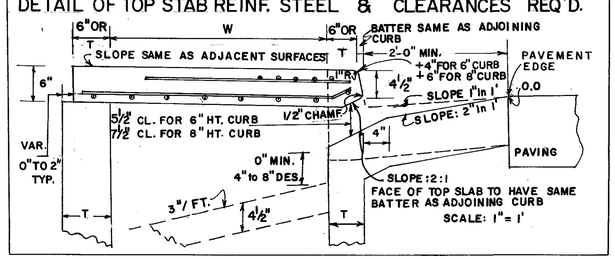
DEPTH LIMITS FOR INCREASING "T"



SECTION I-I



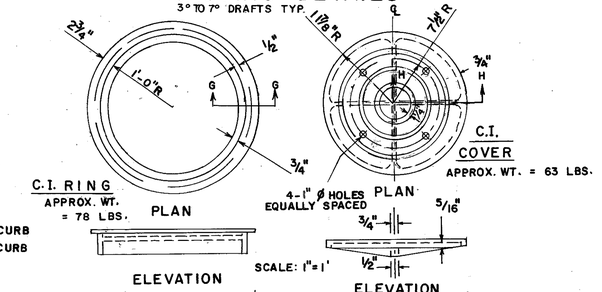
SECTION F-F

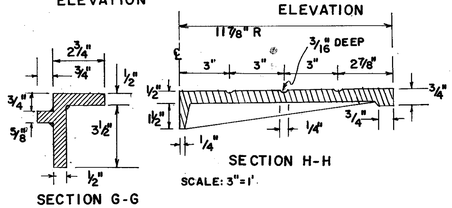


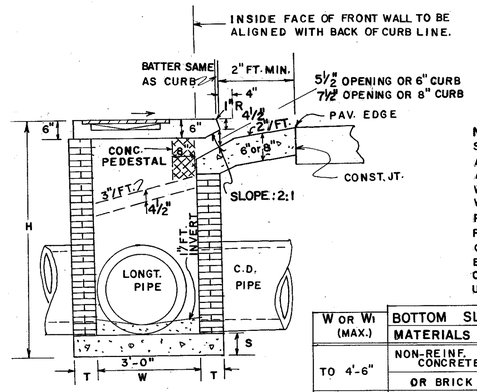
DETAIL OF TOP STAB REINF. STEEL & CLEARANCES REQ'D.

CASTING DETAILS

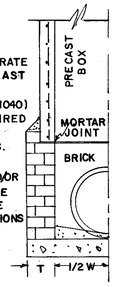
3° TO 7° DRAFTS TYP.







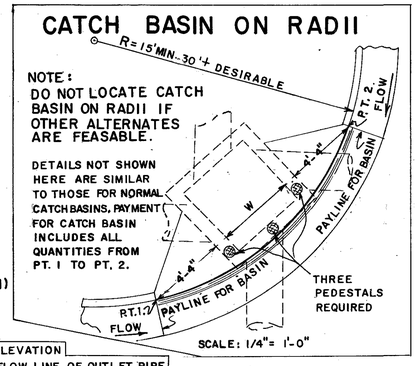
SECTION A-A

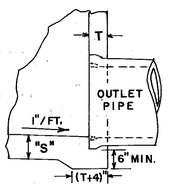


NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES, ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS

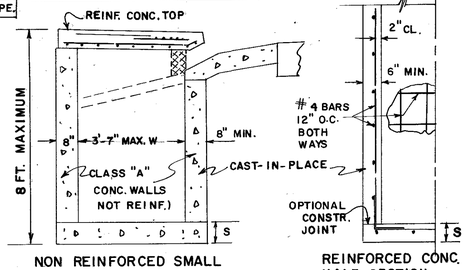
PRECAST BOX ON BRICK (HALF-SECTION)

CATCH BASIN ON RADII





ALTERNATE TO INVERT



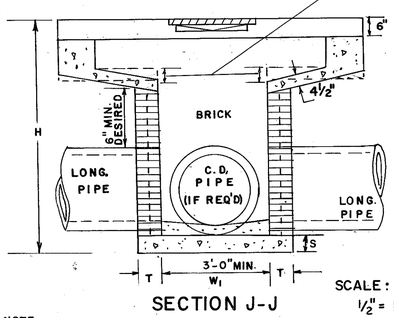
NON REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONC. HALF-SECTION.

NOTE: **CONSTRUCTION ALTERNATES**

DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED UP TO 8" TOTAL WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.

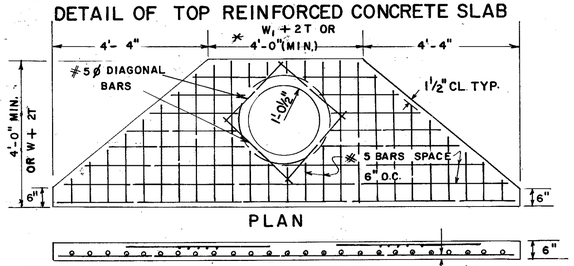


SECTION J-J SCALE: 1/2" = 1'

NOTE: PIPE SIZES, NUMBER, ALIGNMENT AND INVERTS SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONC. AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

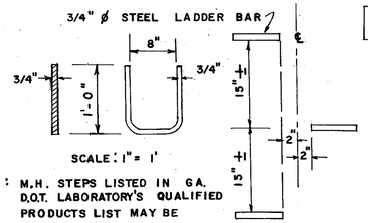
DETAIL OF TOP REINFORCED CONCRETE SLAB



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

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB SEE PART PLAN AT TOP RIGHT.

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



NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS. NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

DETAIL OF LADDER BARS

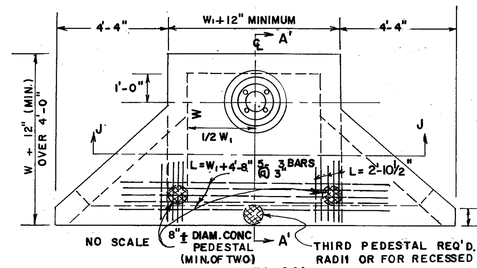
△E = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

TYPICAL MIN. DIMENSIONS			
PIPE DIA.	H (MIN.)	W or W1	MIN. △E
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. △E GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

CATCH BASIN (WITH PROTUDED BACK)

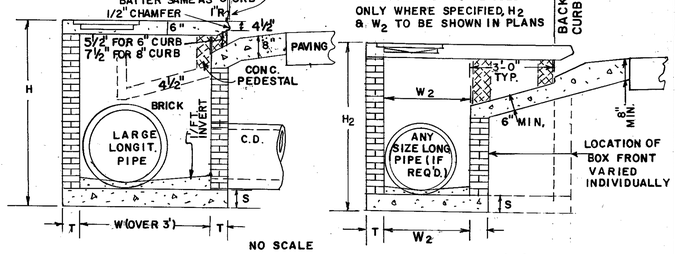
FOR USE WITH LONGITUDINAL PIPE OVER 24" OR FOR USE WITH RECESSED BOX



NOTE:
DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASINS.

PART PLAN

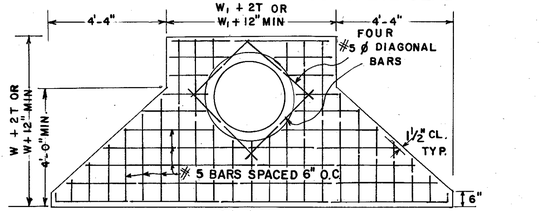
NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED. H2 & W2 TO BE SHOWN IN PLANS



SECTION A'-A' (FOR LONGIT. PIPE OVER 24")

SECTION A'-A' (FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



NOTE:
TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

41-0010

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN

REV. AND RED. AUGUST, 1982

REV. & REDR. R.M.U.
TRA G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moore
STATE HIGHWAY ENGINEER

NUMBER 1034D

FORM EF3

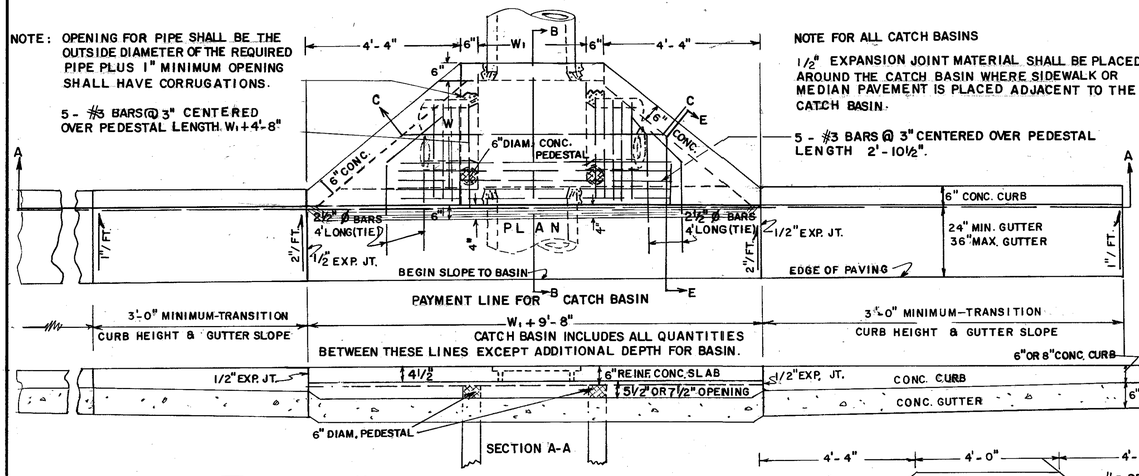
AF 21868

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQUIRED PIPE PLUS 1" MINIMUM OPENING SHALL HAVE CORRUGATIONS.

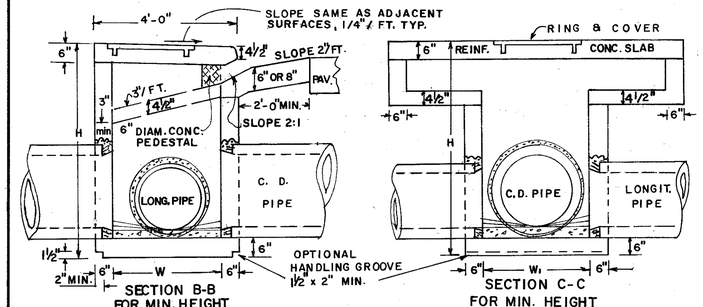
5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH $W_1+4'-8"$

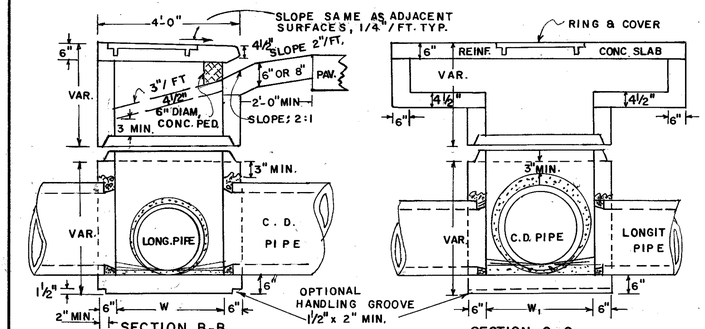


NOTE FOR ALL CATCH BASINS

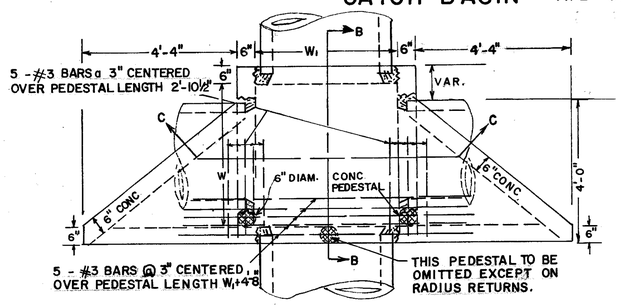
1½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

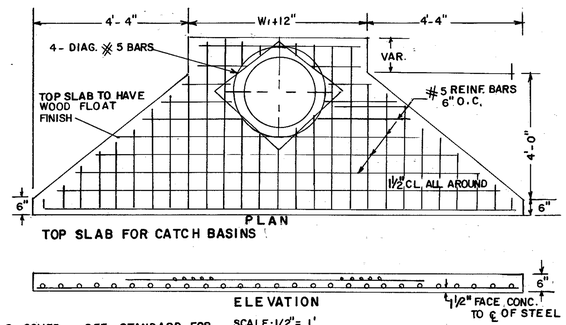
5 - #3 BARS @ 3" CENTERED OVER PEDESTAL LENGTH 2'-10½".

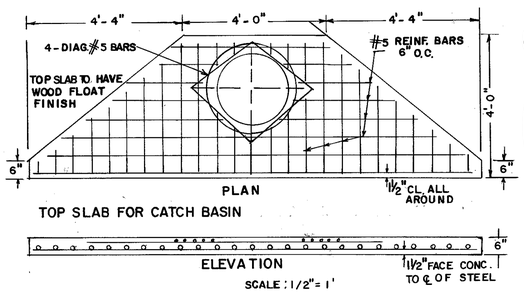


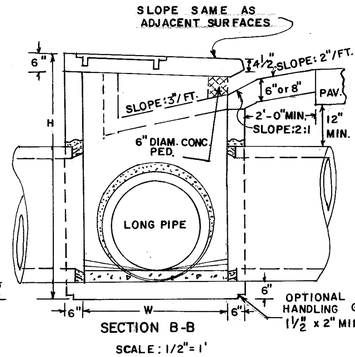


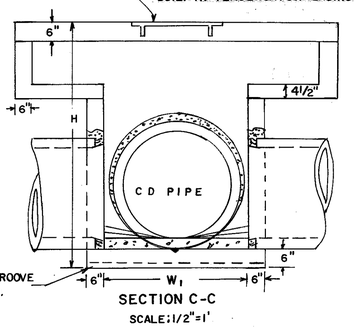
CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24".)



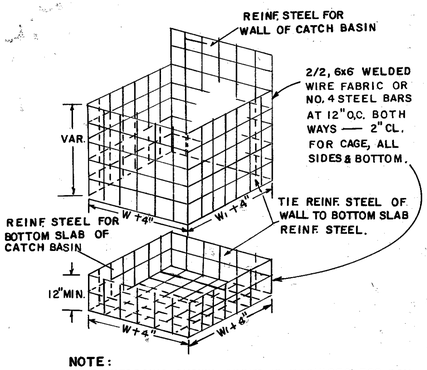








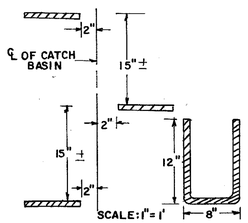
REINFORCING - ISOMETRIC VIEW



NOTE:
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

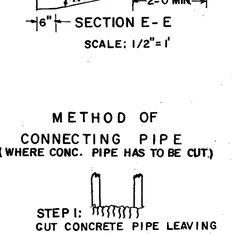
ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED. KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

DETAIL AND ARRANGEMENT OF LADDER BARS



NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. DOT. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

METHOD OF CONNECTING PIPE (WHERE CONC. PIPE HAS TO BE CUT)

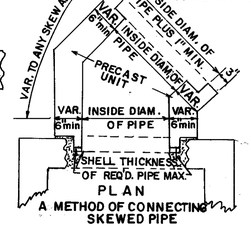


STEP 1:
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED

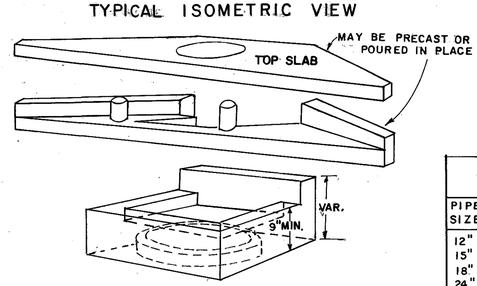
STEP 2:
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.

STEP 3:
POSITION CONICAL CONE INSIDE OF PIPE AND SEAL WITH GROUT (½" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

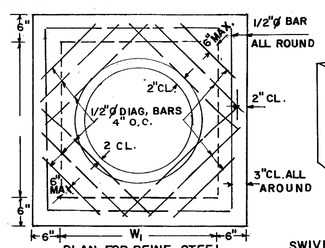
NO SCALE



TYPICAL ISOMETRIC VIEW



IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W_1 DIMENSIONS, INCREASE THE MINIMUM THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.

NO SCALE

NOTE:
THE ABOVE VIEW DEPICTS PRECAST BOX SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

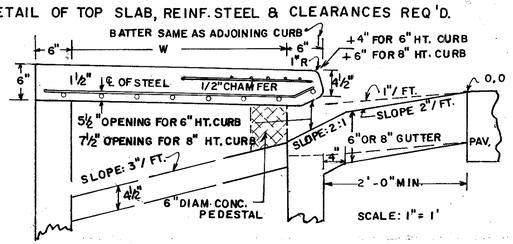
DIMENSIONS FOR CATCH BASINS		
PIPE SIZE	NORMAL W or W_1	MIN. H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

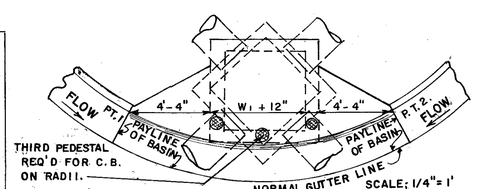
NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W_1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1034 D FOR BUILT-IN-PLACE CATCH BASIN.

DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.





SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.
ALL DIMENSIONS ARE THE SAME AS SHOWN ON DETAILS FOR CATCH BASIN, DIMENSIONS FROM PT. 1 TO PT. 2 ARE MEASURED ALONG THE CHORD, UNIT PRICE BID FOR CATCH BASIN INCLUDES ALL CURB AND GUTTER FROM PT. 1 TO PT. 2.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN — REV. & REDR., SEPT. 1982

REV. & REDR. R.M.U. — TRA. G.M.E. — CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Moreland — STATE HIGHWAY ENGINEER

NUMBER 1034D PRECAST

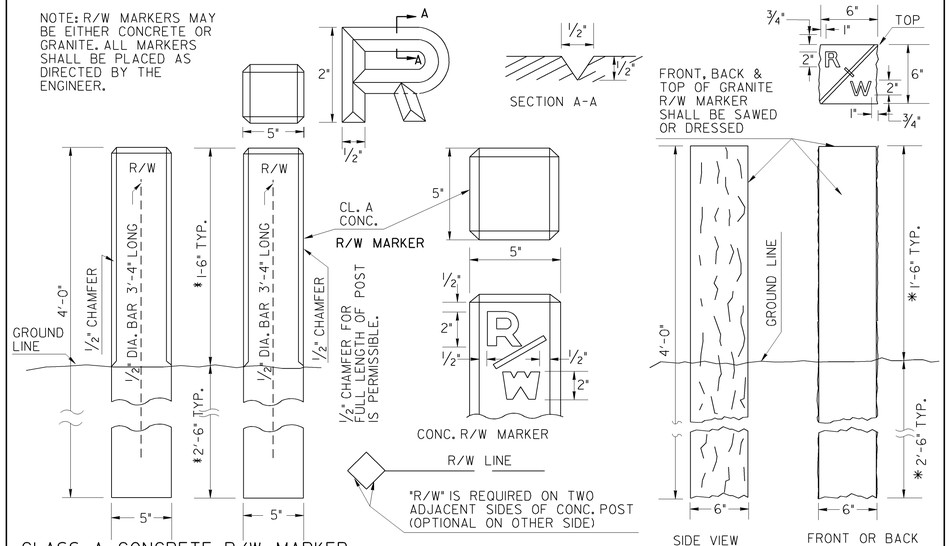
41-0011

FORM EF3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

DETAILS OF RIGHT OF WAY MARKERS

NOTE: R/W MARKERS MAY BE EITHER CONCRETE OR GRANITE. ALL MARKERS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.



CLASS A CONCRETE R/W MARKER

* NOTE: WHERE DIRECTED BY THE ENGINEER, THE ABOVE GROUND HEIGHT OF ANY R/W MARKER SHALL BE REDUCED BY INCREASING THE DEPTH AS NEEDED WITH NO ADDITIONAL PAYMENT.

(ALTERNATE) GRANITE R/W MARKER

41-0012

DATE	REVISION	BY
4-10-06	REDRAWN TO MATCH METRIC	G.L.O.
6-30-98	GA. STD. 9003	
9-28-90	REDRAWN	G.J.P.
10-11-88	REV. F.A.P. - SP. POST ALT.	R.M.U.
5-24-85	VAR. HT. R/W MARKER	R.M.U.
	ADD GRANITE R/W M.	R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD DETAILS OF MARKERS

FEDERAL AID AND STATE RIGHT OF WAY MARKERS

NO SCALE — REV. & REDR. DEC., 1981

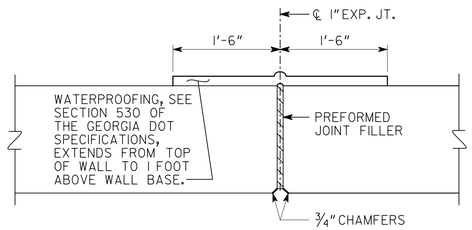
DES. ____
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

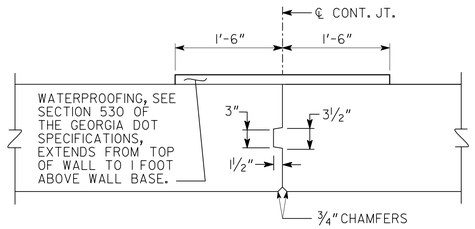
NUMBER 9003

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



DETAIL OF EXPANSION JOINT

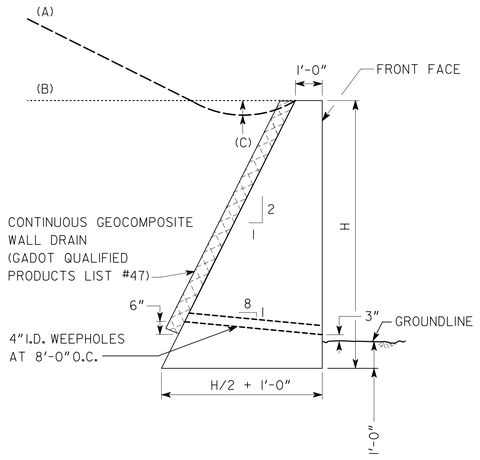
SEE GENERAL NOTE #3



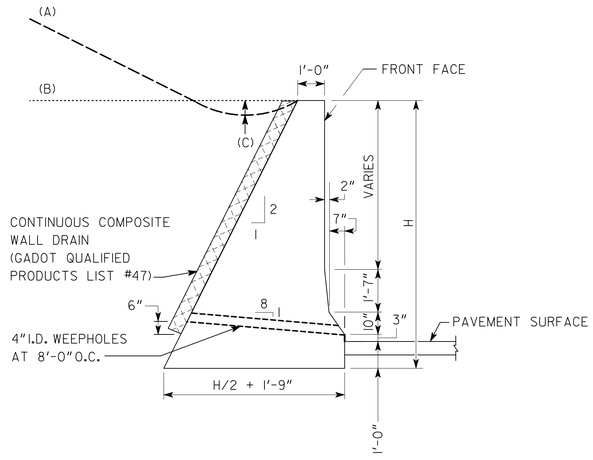
DETAIL OF CONTRACTION JOINT

SEE GENERAL NOTE #3

(A) - SLOPED BACKFILL WITH DITCH
(B) - FLAT BACKFILL
(C) - DITCH DEPTH, 6" - 12" TYPICAL
SEE PLANS FOR DESIGN

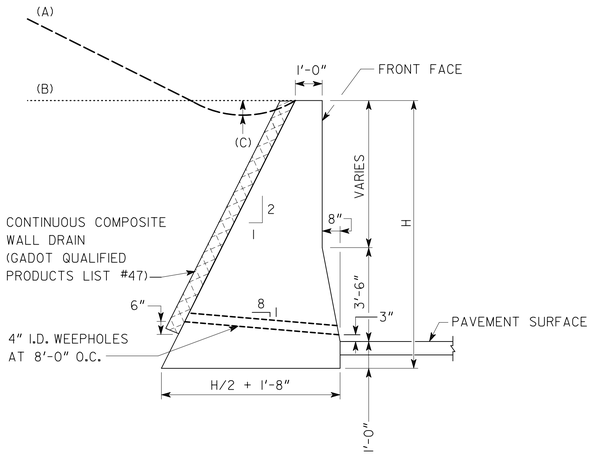


TYPICAL SECTION A



TYPICAL SECTION B

(NEW JERSEY BARRIER FACE)



TYPICAL SECTION C

(SINGLE SLOPE BARRIER FACE)

MAXIMUM "H"*			
BACKSLOPE	TYP. SECTION A	TYP. SECTION B **	TYP. SECTION C **
FLAT	8'-6"	10'-0"	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"	4'-9"

* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.

** TYPICAL SECTION B SHALL HAVE A MINIMUM H OF 3'-8"
TYPICAL SECTION C SHALL HAVE A MINIMUM H OF 4'-6"

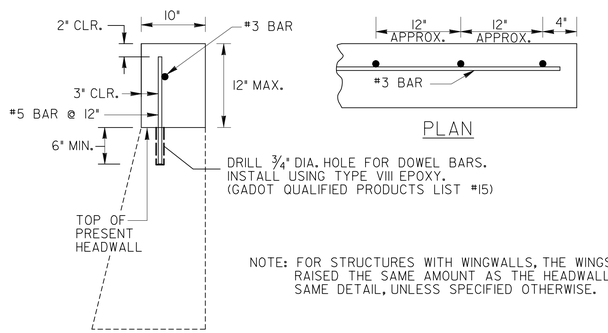
GENERAL NOTES:

1. GRAVITY WALLS SHALL NOT BE USED WHEN HORIZONTAL DISTANCE FROM EDGE OF TRAVEL WAY TO FRONT FACE OF WALL IS LESS THAN (H + 1'0").
2. GRAVITY WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 PSF	0 PSF
θ =	28°	28°
UNIT WEIGHT =	120 PCF	120 PCF

3. EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30' - 0".
4. GRAVITY WALLS WITH A VERTICAL FRONT FACE SHALL BE PAID FOR AS "CLASS B CONCRETE OR MORTAR RUBBLE MASONRY, RETAINING WALL". GRAVITY WALLS WITH A BARRIER FRONT FACE SHALL BE PAID FOR AS "CLASS A CONCRETE, RETAINING WALL". WATERPROOFING, JOINT FILLER, WALL DRAIN, AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN OVERALL BID SUBMITTED.
5. A CONCRETE DITCH DETAIL FOR THE TOP OF THE WALL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN WATER IS FLOWING TOWARDS THE BACK OF THE WALL. SEE CONSTRUCTION DETAIL D-49.
6. FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.
7. APPLY GRAFFITI PROOF COATING AS PER SECTIONS 500 AND 838 OF THE GEORGIA DOT SPECIFICATIONS.
8. ALL NECESSARY FENCE AND HANDRAIL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN APPROPRIATE.
9. GRAVITY WALL TYPICAL SECTIONS A, B, AND C HAVE BEEN DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.

DETAIL FOR RAISING HEADWALL

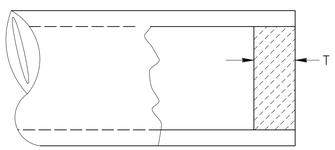


SECTION

PLAN

NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, USING THIS SAME DETAIL, UNLESS SPECIFIED OTHERWISE.

TYPICAL PIPE PLUG



SECTION

NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, CL. A CONC., OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

41-0013

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG

NO SCALE: REV. & REDR. SEPT, 2016

DATE | REVISION | BY

REV. & C.E.W.
REDR.
CHK. D.D.F.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Margaret B Pinkelo STATE HIGHWAY ENGINEER

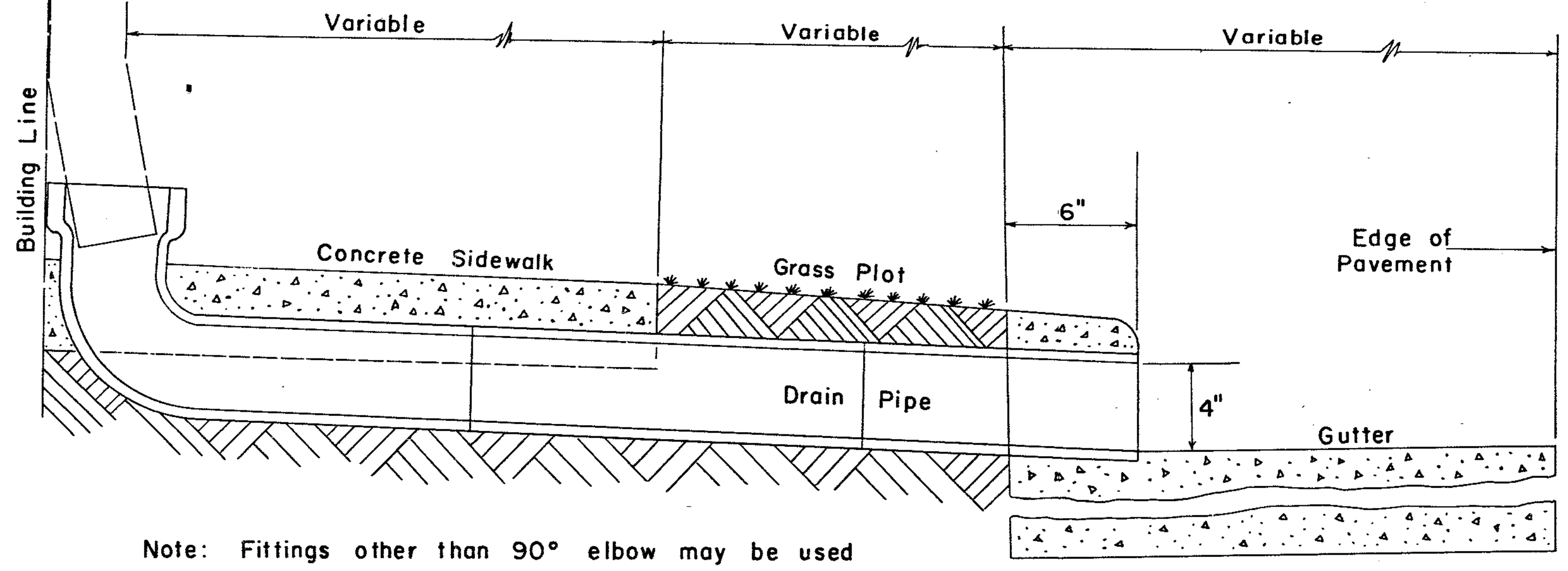
NUMBER 9031L

SHEET 1 OF 2

9031L_Revised_2016-10-25.dgn

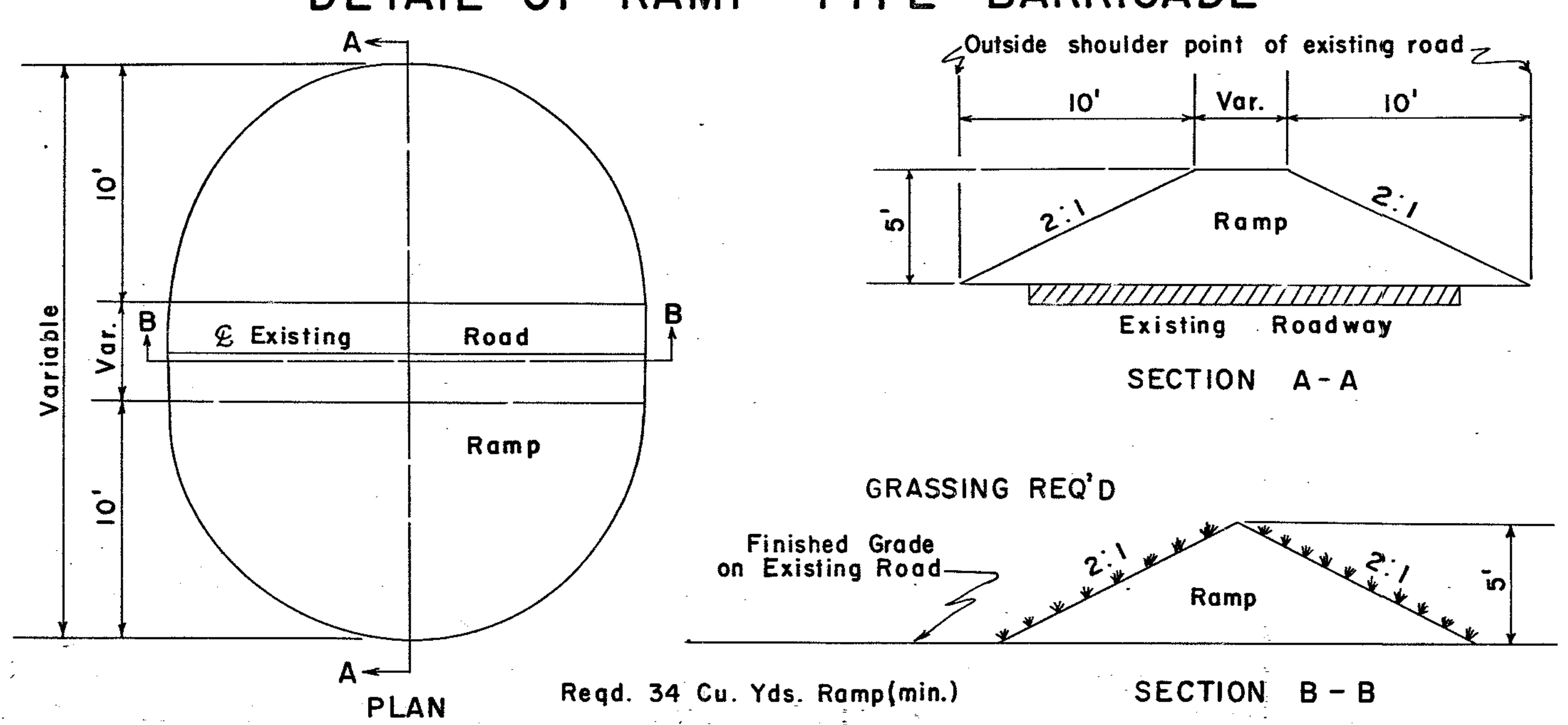
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

DETAIL FOR PLACING ROOF DRAIN PIPE UNDER SIDEWALK



Note: Fittings other than 90° elbow may be used to satisfy other conditions.

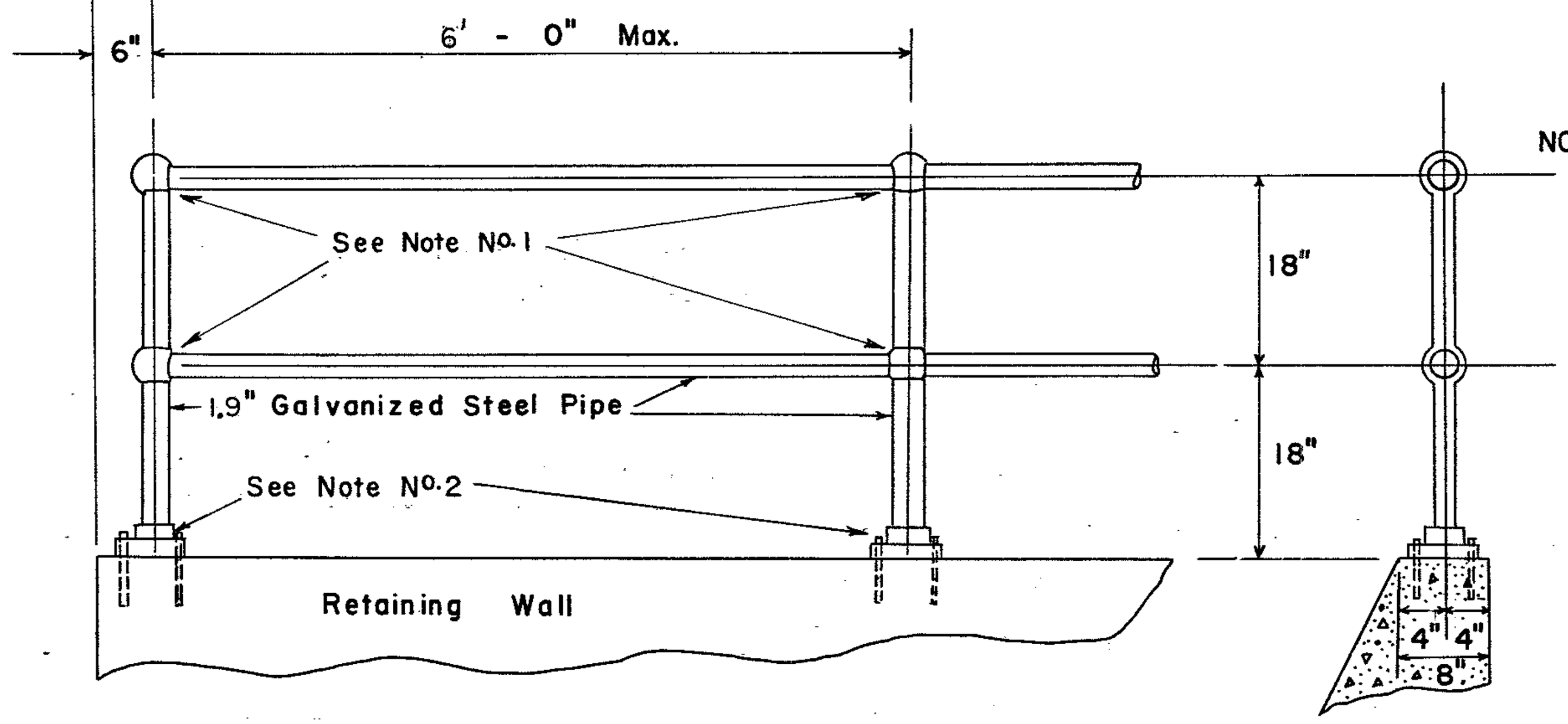
DETAIL OF RAMP TYPE BARRICADE



Reqd. 34 Cu. Yds. Ramp (min.)

NOTE: Materials and construction to be in accordance with Standard Specifications

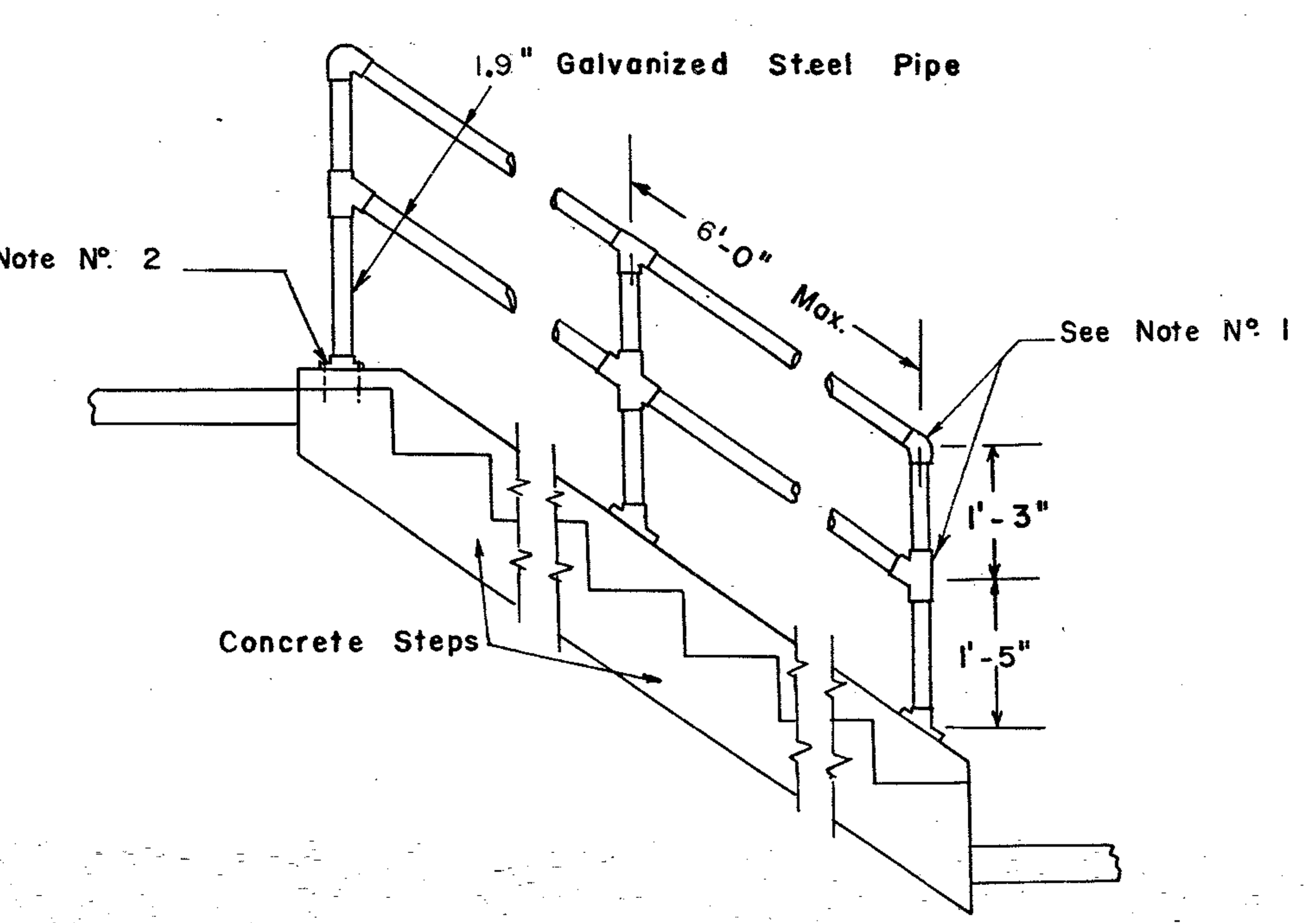
DETAIL OF PIPE HANDRAIL FOR RETAINING WALL



NOTE: If wall is long, and expansion and contraction joints are used in the wall, slip joints are to be provided for in that section of handrailing over the expansion or contraction joint. Stripping the threads in the part of the ball fittings where required to form a slip joint will be permitted.

NOTE: Pipe, pipe fittings, floor flanges and bolts shall be of an approved standard type.

DETAIL OF PIPE HANDRAIL FOR CONCRETE STEPS



NOTE: PIPE, FITTINGS, FLANGES AND BOLTS SHALL BE OF AN APPROVED STANDARD TYPE.

NOTES FOR PIPE HANDRAILING

1. JOINTS —
   a.) Standard or Special galvanized steel or galvanized iron fittings may be used at joints (as shown).
   — OR —
   b.) Joints may be welded. If welded, all exposed joints shall be finished by grinding or filling to give a neat appearance. All damage to galvanizing shall repaired in accordance with the Ga. Standard Specifications.
2. FOOTINGS —
   a.) Post may be anchored with 2½" x 6½" galvanized Floor Flanges with 4 — ½" x 9" galvanized bolts (as shown).
   — OR —
   b.) Post may be grouted in 6" deep, 3" diam. hole. Total length of post will be 6" greater than that in details to give same useable height as if Floor Flanges were used.
3. 1.9" (galv. steel pipe) denotes O.D. for rail sections. I.D. = 1½".

BY	DATE	REVISIONS
R.M.U.	11-25-75	Add. Conc. Patch. Detail B
R.M.U.	2-11-76	Handrail for Conc. Steps
R.M.U.	2-10-78	Rev. Handrailing, Ramp detail - Rem. Sprig.
R.M.U.	10-11-88	Designated 1.9" O.D. Handrail

41-0014

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CONSTRUCTION DETAILS

PLACING ROOF DRAIN PIPE UNDER SIDEWALK
RAMP TYPE BARRICADE
PIPE HANDRAIL FOR RETAINING WALL
PIPE HANDRAIL FOR CONCRETE STEPS

NO SCALE — REVISED: FEB., 1966

DESIGNED:
DRAWN: A.V.S.
TRACED: A.V.S.
CHECKED: R.B.S.

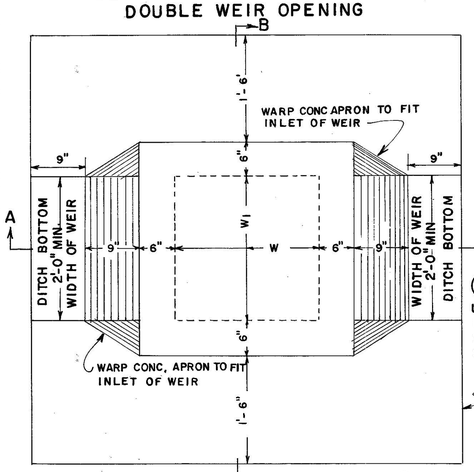
SUBMITTED: STATE ROAD DESIGN ENGINEER
APPROVED: STATE HIGHWAY ENGINEER

NUMBER 9031R

Dietzgen N. O. 135 "Imperial"

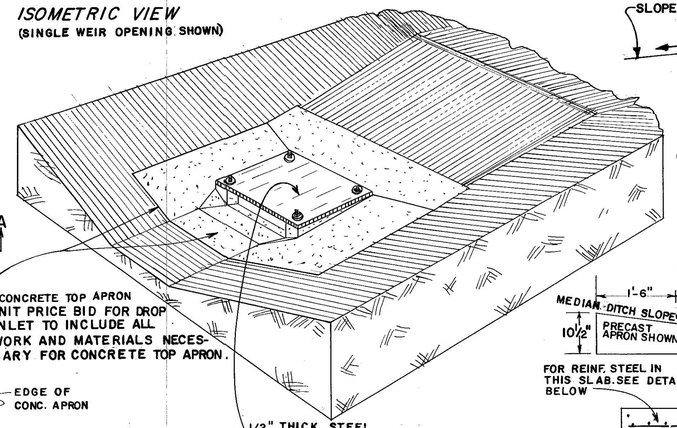
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

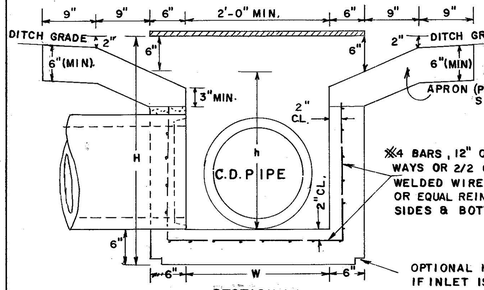
DETAILS OF DROP INLET WITH DOUBLE WEIR OPENING

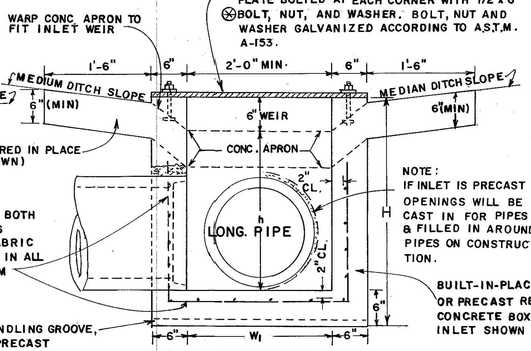


SCALE: 1"= 1FT.

ISOMETRIC VIEW
(SINGLE WEIR OPENING SHOWN)







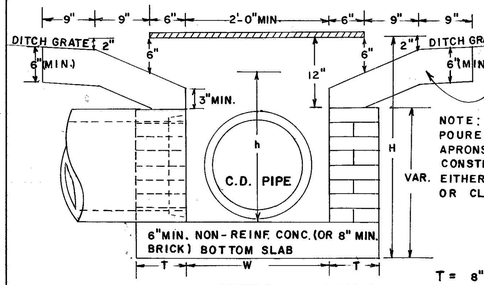
SCALE: 1"= 1 FT.

※4 BARS, 12" O.C. BOTH WAYS OR 2/2 6x6 WELDED WIRE FABRIC OR EQUAL REINF. IN ALL SIDES & BOTTOM

OPTIONAL HANDLING GROOVE, IF INLET IS PRECAST

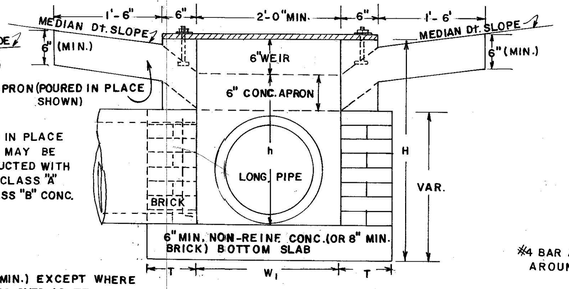
NOTE: IF INLET IS PRECAST OPENINGS WILL BE CAST IN FOR PIPES & FILLED IN AROUND PIPES ON CONSTRUCTION.

BUILT-IN-PLACE OR PRECAST REINF. CONCRETE BOX TYPE INLET SHOWN HERE.



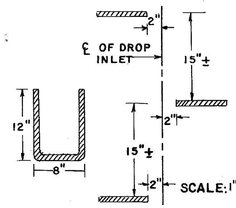
NOTE: POURED IN PLACE APRONS MAY BE CONSTRUCTED WITH EITHER CLASS "A" OR CLASS "B" CONC.

T = 8" (MIN.) EXCEPT WHERE H IS OVER 10 FT. SEE DETAIL AT RIGHT.

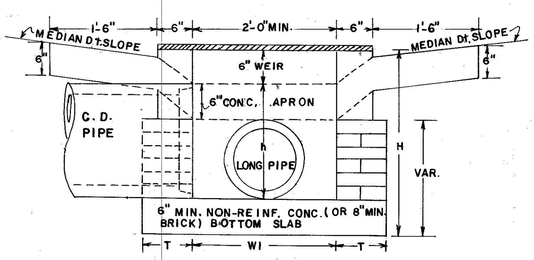


SCALE: 1"= 1 FT.

DETAIL AND ARRANGEMENT OF LADDER BARS



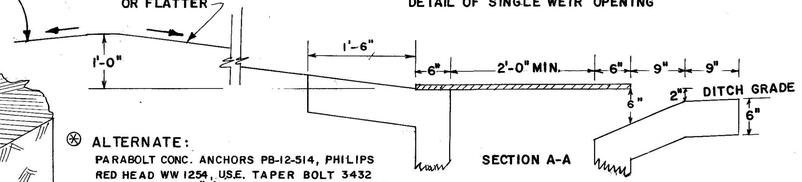
LADDER BARS ARE REQUIRED IN ALL INLETS, WHERE h=OVER 4'-0" NUMBER AND LOCATION OF LADDER BARS TO BE AS DIRECTED BY THE ENGINEER. AN ALTERNATE STEP MAY BE SUBSTITUTED, IF APPROVED BY THE LABORATORY.



SECTION B-B MODIFIED

(C.D. PIPE IS 6" MIN. LARGER THAN LONG. PIPE)

SLOPE 20:1 (REFERENCED TO DITCH GRADE) OR FLATTER

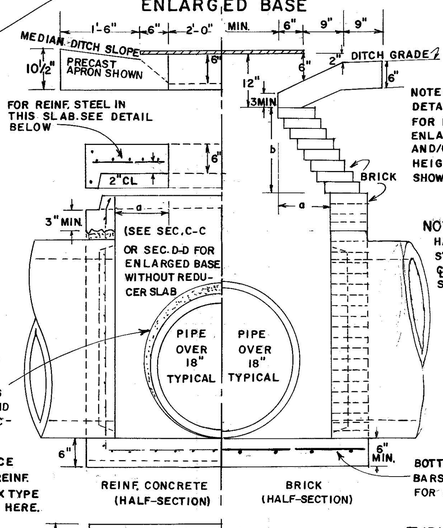


SECTION A-A

DETAIL OF SINGLE WEIR OPENING

⊗ ALTERNATE:
PARABOLT CONC. ANCHORS PB-12-514, PHILIPS RED HEAD WW 1254, U.S.E. TAPER BOLT 3432 OR AN EQUAL 1/2" ø ANCHOR BOLT MAY BE USED TO SECURE THE STEEL PLATE.

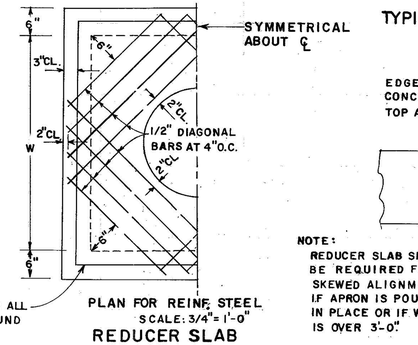
DROP INLET WITH ENLARGED BASE



NOTE: DETAILS NOT SHOWN FOR INLETS WITH ENLARGED BASES AND/OR ADDITIONAL HEIGHT WILL BE AS SHOWN ELSEWHERE.

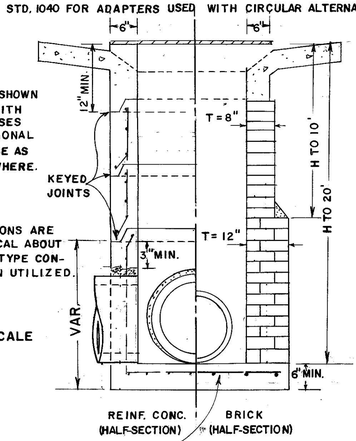
NOTE: HALF-SECTIONS ARE SYMMETRICAL ABOUT ℄ OF THE TYPE CONSTRUCTION UTILIZED.

BOTTOM SLAB REINF. NO.4 BARS @ 12" O.C. BOTH WAYS FOR STRUCTURES SHOWN HERE.



REDUCER SLAB
(HALF-SECTION)

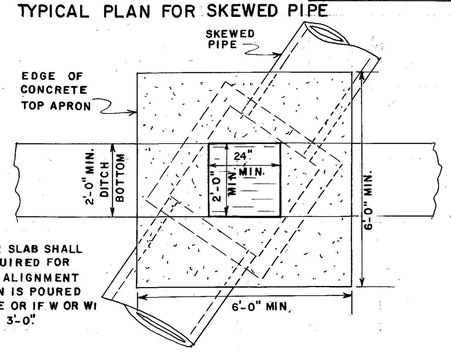
DROP INLET WITH ADDITIONAL HEIGHT
(DETAILS SHOWN ARE TYPICAL BOX ENCLOSURE FOR PIPE MAY BE BRICK MASONRY WITH PRECAST RISERS. ALSO SEE STD. 1040 FOR ADAPTERS USED WITH CIRCULAR ALTERNATES).



NO SCALE

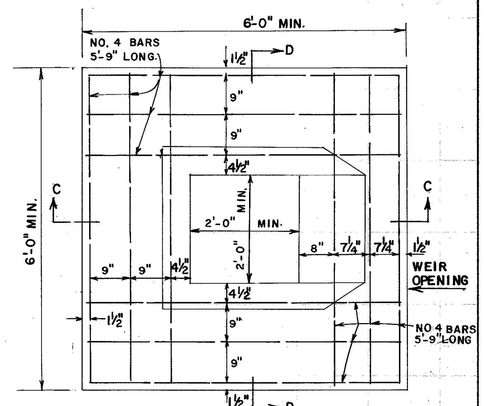
BRICK WALL THICKNESS	
H	T
to 10'	8"
10' to 20'	12"
20' to 30'	16"

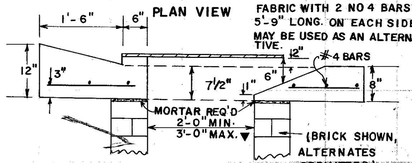
TYPICAL PLAN FOR SKEWED PIPE



NOTE: REDUCER SLAB SHALL BE REQUIRED FOR SKEWED ALIGNMENT IF APRON IS POURED IN PLACE OR IF W OR W1 IS OVER 3'-0"

REINFORCING FOR OPTIONAL PRECAST APRON
(MAY BE USED WITH A PRECAST OR BUILT-IN-PLACE INLET)



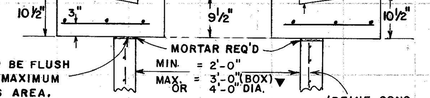


SECTION C-C

NOTE 2/2, 6x6 WELDED WIRE FABRIC WITH 2 NO 4 BARS 5'-9" LONG. ON EACH SIDE MAY BE USED AS AN ALTERNATIVE.

NOTE: WHEN USING PRECAST APRON, THE PLATE, BOLTS & OTHER REQUIREMENTS SHALL CONFORM TO THAT SHOWN FOR POURED IN PLACE APRON.

▼ MAXIMUM W OR W1 PERMITTED WITH PRECAST APRON WITHOUT REDUCER SLAB.



SECTION D-D
SCALE: 3/4"= 1 FT

GENERAL NOTES:

1. SPECIFICATIONS: GA. STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. SEE STD. 9031-L FOR ADDITIONAL DETAILS WHERE INLET IS CONSTRUCTED ON BOX CULVERT.
3. SEE STD. 1040 FOR CIRCULAR PRECAST ALTERNATES.
4. PRECAST ON BRICK MASONRY: BRICK CONSTRUCTION SHALL EXTEND 6"± ABOVE TOP OF PIPE. JOINTS BETWEEN PRECAST & BRICK SECTIONS SHALL BE FLUSH OR CONC. FILLED TO GIVE MAX. BEARING AREA.
5. TYPICAL TREATMENT FOR SKEWED PIPES:
   (a) WITH PRECAST APRON — CONSTRUCT BOX WITH WALLS PERPENDICULAR TO PIPE AND SET PRECAST APRON PARALLEL TO DITCH AND SKEWED RELATIVE TO PIPE OR USE CIRCULAR SECTIONS (STD. 1040)
   (b) WITH BUILT-IN-PLACE APRON — CONSTRUCT BOX AS DESCRIBED IN (a) AND USE REDUCER SLAB OR INCREASE W OR W1 DIMENSIONS AS NECESSARY OR USE CIRCULAR SECTIONS (STD. 1040)

TYPICAL DROP INLET DIMENSIONS ※ ※

PIPE SIZE	BRICK MASONRY							REINF. CONCRETE ※			
	MIN. W OR W1	MIN. H	MIN. h	a (MAX.)	b (MIN.)	MODIFIED MIN H	MODIFIED MIN. h	MIN. W OR W1	MIN. H	MIN. h	a (MAX)
15"	2'-0"	3'-1"	2'-1"	—	—	2'-7½"	1'-7½"	2'-0"	3'-2"	2'-2"	—
18"	2'-3"	3'-10"	2'-10"	1½"	9/16"	2'-11"	1'-11"	2'-3"	3'-5"	2'-5"	—
24"	2'-10"	4'-11"	3'-11"	5"	8 9/16"	3'-6"	2'-6"	3'-0"	4'-10"	3'-10"	6"
30"	3'-5"	6'-0"	5'-0"	8½"	1' 2 9/16"	4'-1"	3'-1"	3'-6"	5'-5"	4'-5"	9"
36"	4'-0"	7'-1"	6'-1"	1'-0"	1'-8 9/16"	—	—	4'-0"	6'-0"	5'-0"	1'-0"
42"	4'-7"	8'-6"	7'-2"	1'-3½"	2'-2 9/16"	—	—	4'-6"	6'-7"	5'-7"	1'-3"
48"	5'-2"	9'-7"	8'-3	1'-7"	2'-8 9/16"	—	—	5'-0"	7'-2"	6'-2"	1'-6"

※ BUILT-IN-PLACE OR PRECAST BOX

※ ※ DIMENSIONS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPE AND MAY BE VARIED IF CONDITIONS PERMIT, AND THE VARIED DIMENSIONS ARE SHOWN IN THE PLANS OR SPECIFIED BY THE ENGINEER. DIMENSIONS "a" ARE BASED UPON 2'-0" WEIR OPENING. MINIMUM H AND h ARE BASED UPON LARGEST PIPE INVOLVED. BOX ENCLOSURE FOR PIPE DOES NOT HAVE TO BE SQUARE. W AND W1 DIMENSIONS MAY DIFFER. (DIMENSIONS HAVE BEEN SPECIFIED FOR BOX SHAPED INLETS. SEE STD. 1040 FOR DIMENSIONS OF CIRCULAR ALTERNATES.)

41-0015

FORM EF3

DATE	REVISION	BY
4-17-96	GEN. REV.	R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD MEDIAN DROP INLET
(PRECAST OR BUILT-IN-PLACE) & CONCRETE APRON

SCALE AS SHOWN — REV. & REDR. AUGUST 26, 1981

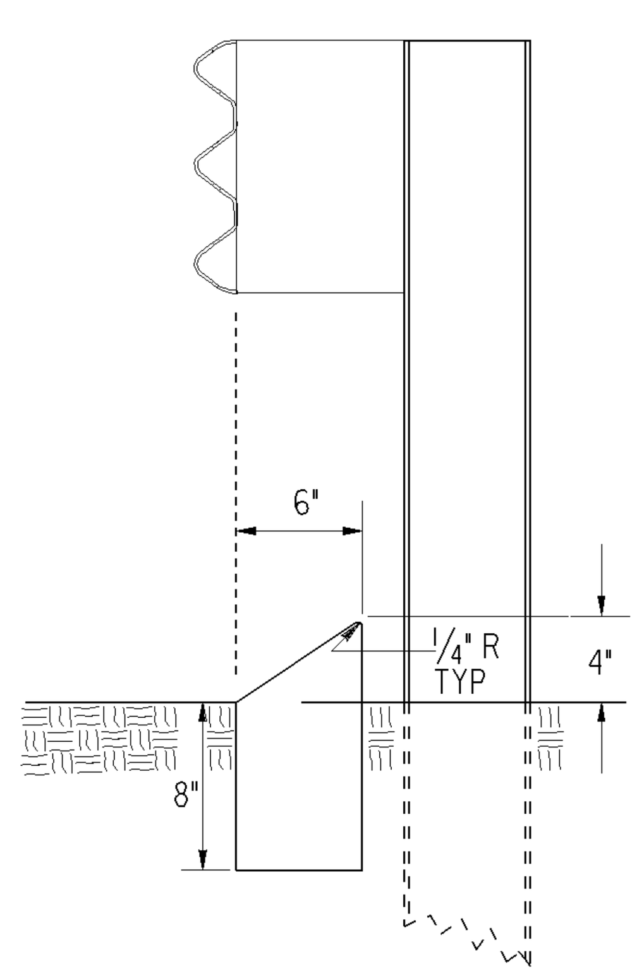
DES. 2-67
REV. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas O. Moreland
STATE HIGHWAY ENGINEER

NUMBER 9031-S

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

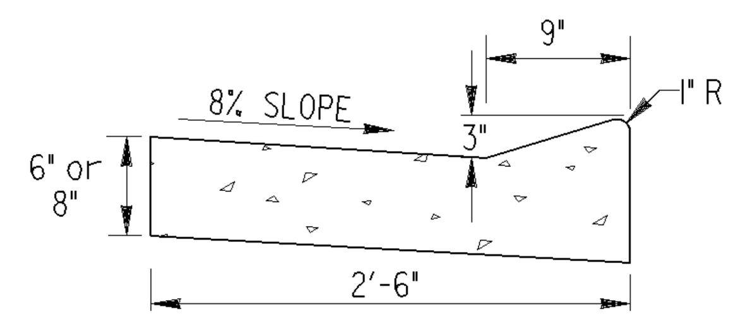
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

RAISED EDGE WITH CONCRETE GUTTER



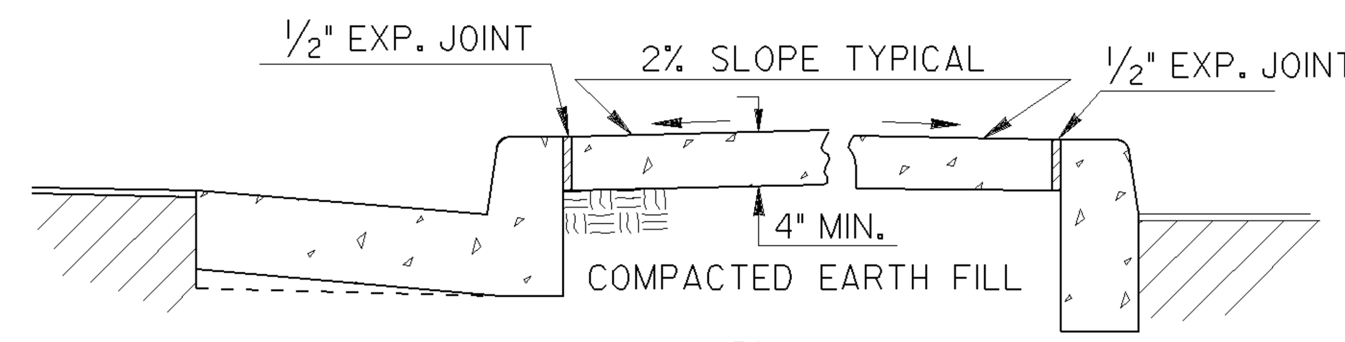
SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



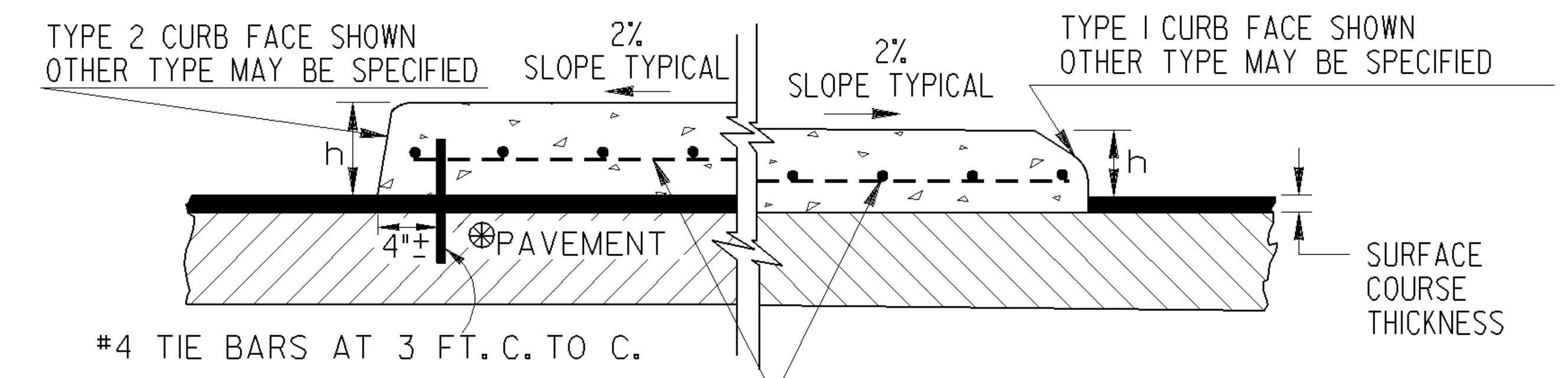
SCALE: 3/4" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE MEDIANS (Integral)

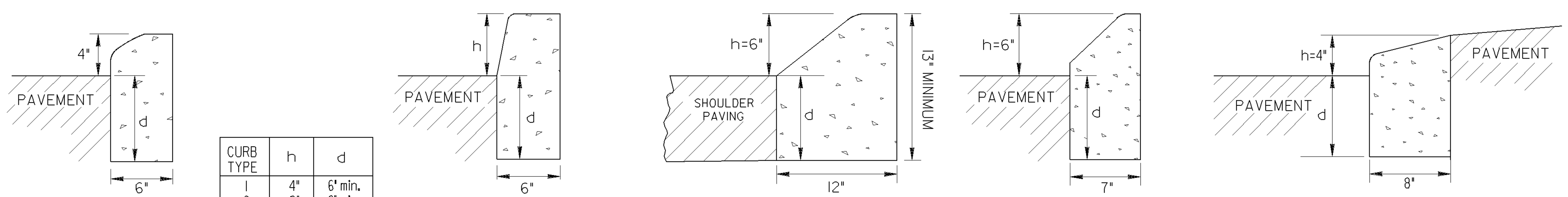
SCALE: 1"=1FT.

-WITH TIE BARS- -WITHOUT TIE BARS-



NOTE:
IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



TYPE 1 TYPE 2, 3 OR 4 TYPE 6 TYPE 7 TYPE 9 TRUCK APRON IN ROUNDABOUTS

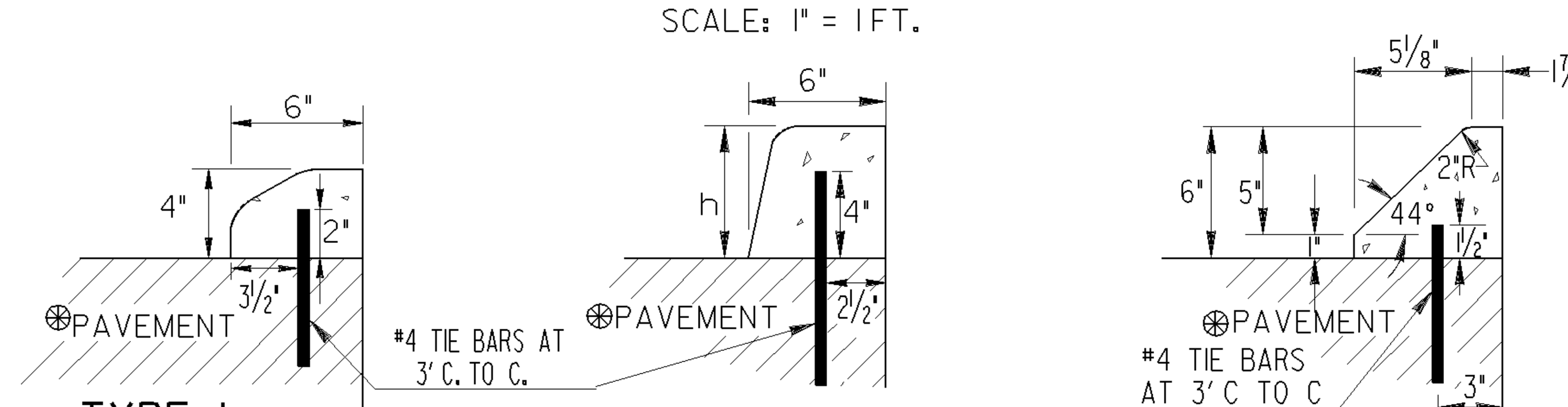
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

SCALE: 1 1/2" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.



TYPE 1 TYPE 2, 3 OR 4 TYPE 7

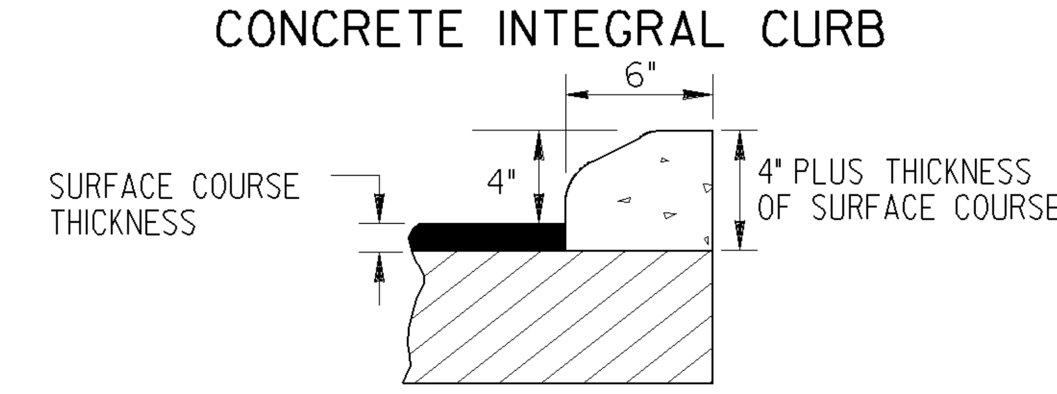
⊕ NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)

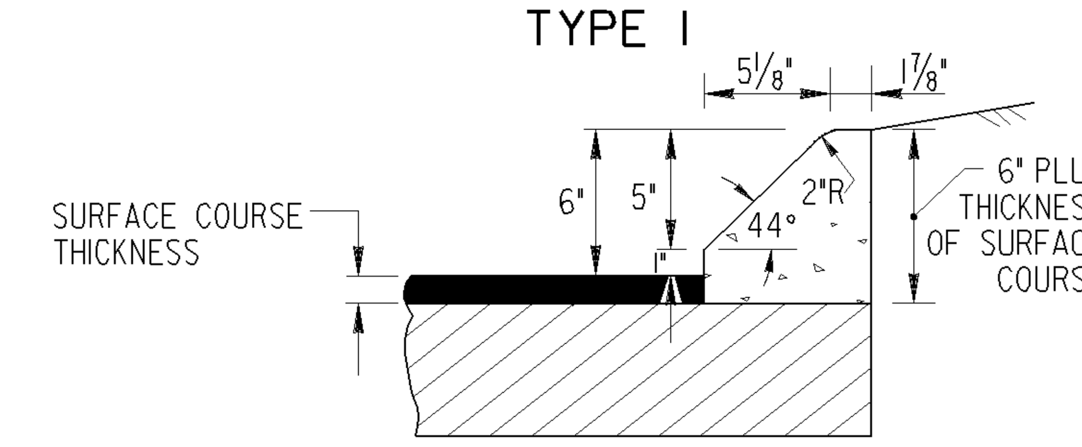
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

CONCRETE INTEGRAL CURB



TYPE 1



TYPE 7

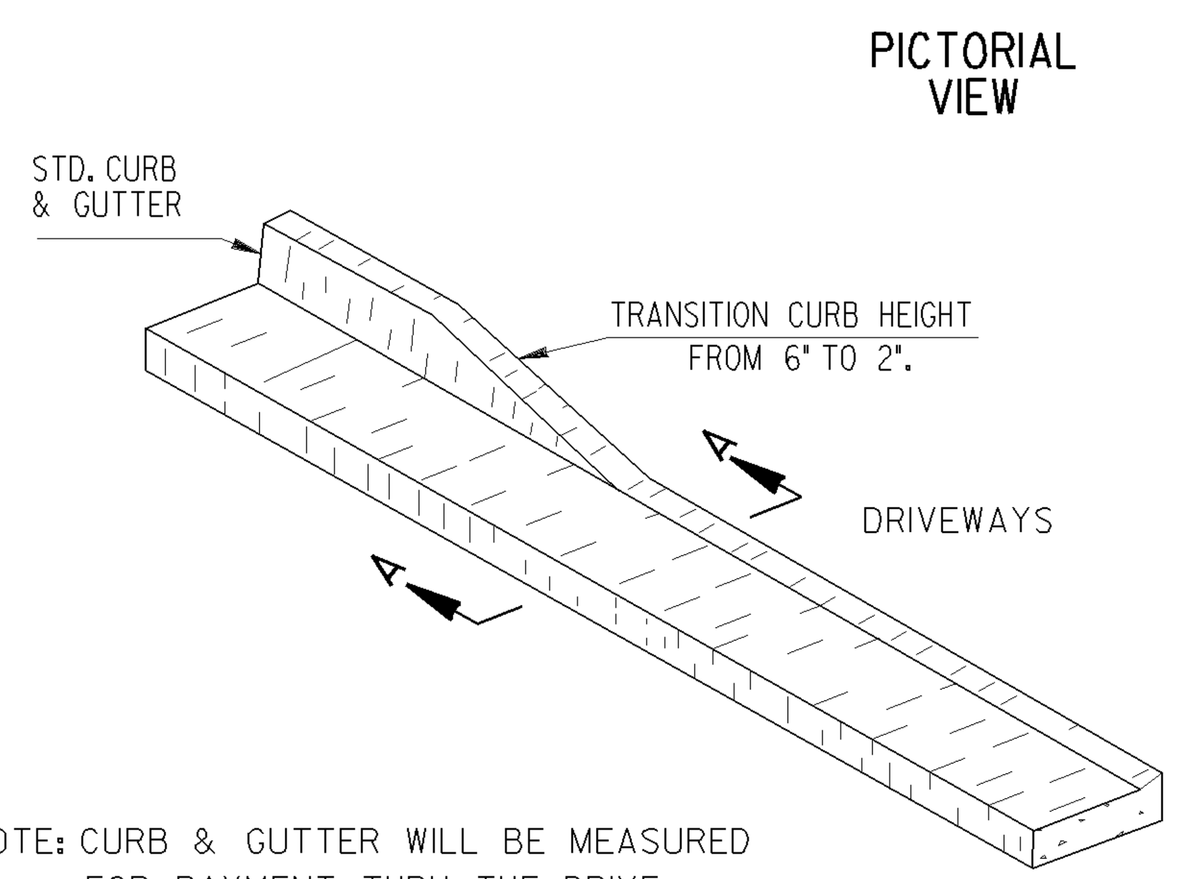
41-0016

SCALE: 1 1/2" = 1FT.

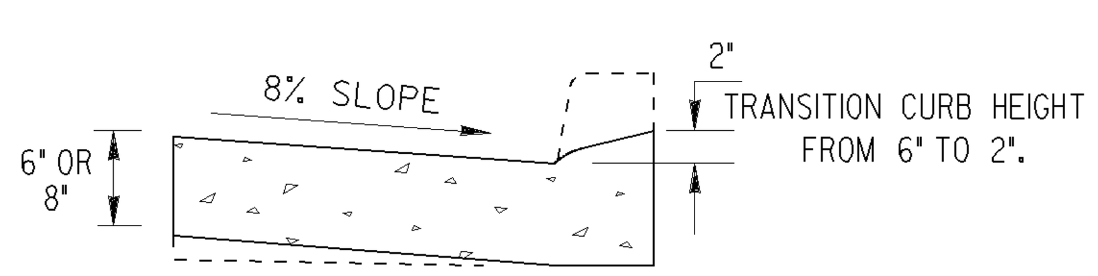
DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE

PICTORIAL VIEW



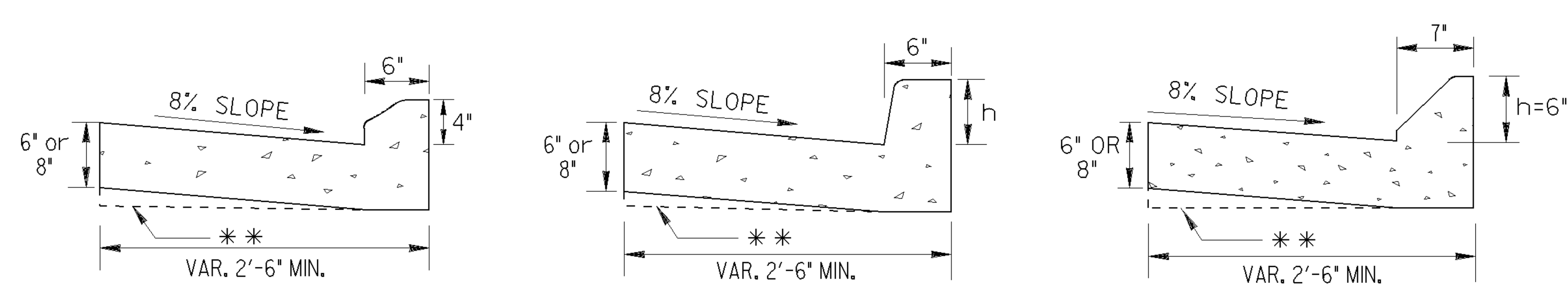
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

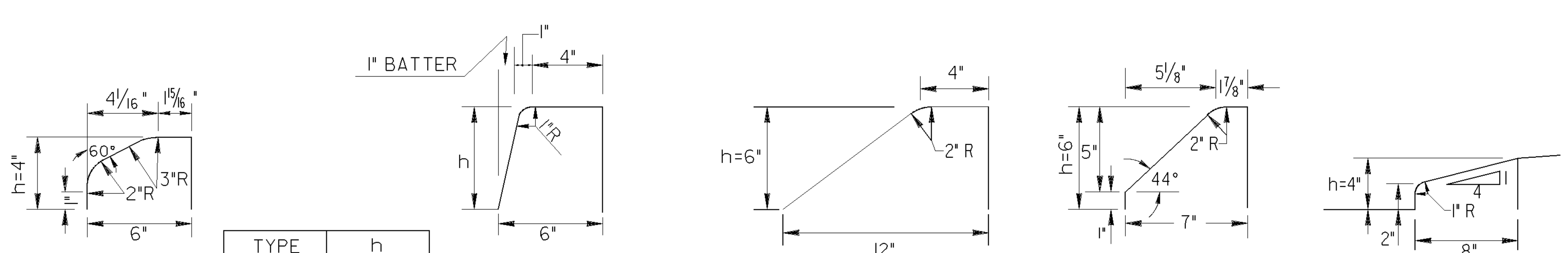


SCALE: 1"= 1FT.

TYPE 1 TYPE 2, 3 OR 4 TYPE 7

✱✱ AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN



TYPE 1 TYPE 2, 3 OR 4 TYPE 6 TYPE 7 TYPE 9

TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2"=1FT.

REVISION	DATE
REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	11-15-11
REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	1-27-11
ADDED TYPE 9 DETAIL	3-03

TC		GLO	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN REVISED AND REDRAWN OCT. 2011

DES. ____ DRW. ____ TRA. ____ CHK. ____

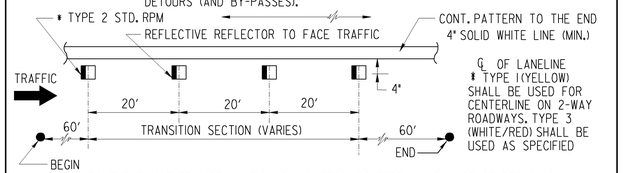
(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 9032B

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

TEMPORARY RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS. UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED: APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES, REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

41-0017

BY	DATE	REVISION
GLO	3-30-06	REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.
	4-24-01	SPEC. BAR. SH. SPEC.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

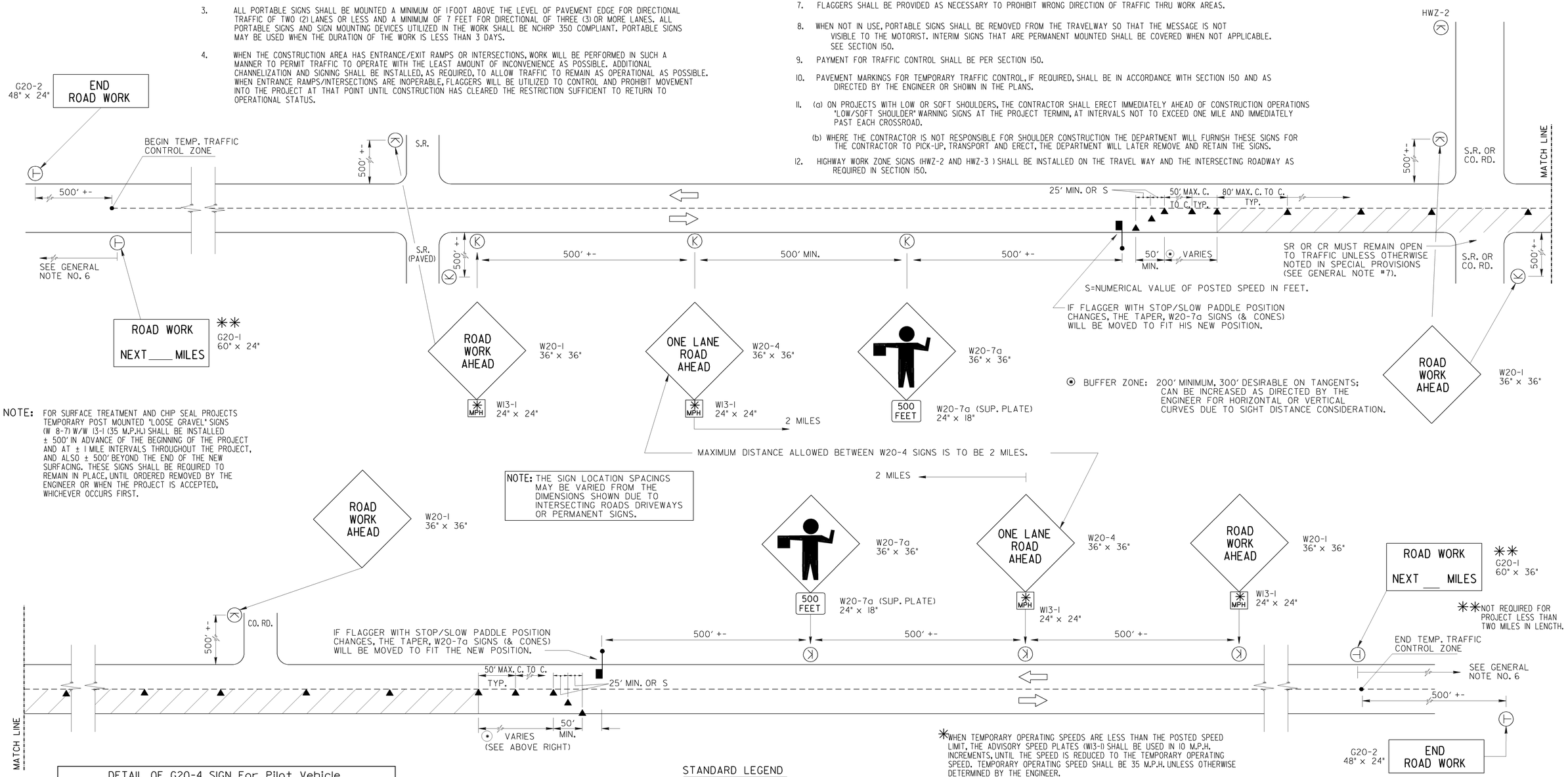
NUMBER 9100

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
7. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
10. PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
11. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
12. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.

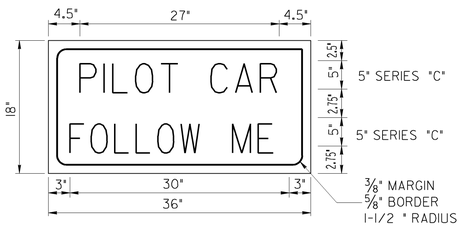


NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS DRIVEWAYS OR PERMANENT SIGNS.

*WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (WI3-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.

DETAIL OF G20-4 SIGN For Pilot Vehicle
IF REQUIRED OR USED ON PROJECT



STANDARD LEGEND

- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- WORK AREA
- TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

41-0018

BY	REVISION	DATE
GLO	REMOVED FLAGS AND REV. GENERAL NOTES. REV. SIGN G20-2A TO G20-2.	3-30-06

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9102

P.I. No.
0008121/0012789

UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
	E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
	E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
	E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
	E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
	GW	GW	GW	GUY WIRE
	T	T	T	TELECOMMUNICATIONS
	T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
	T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
	TV	TV	TV	CABLE TV
	TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
	TC	TC	TC	TRAFFIC CONTROL
UNDERGROUND	E	E	E	ELECTRIC (QL-D)
	E(C)	E(C)		ELECTRIC (QL-C)
	E(B)	E(B)		ELECTRIC (QL-B)
	T	T	T	TELECOMMUNICATIONS (QL-D)
	T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
	T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
	TV	TV	TV	CABLE TV (QL-D)
	TV(C)	TV(C)		CABLE TV (QL-C)
	TV(B)	TV(B)		CABLE TV (QL-B)
	W	W	W	WATER (QL-D)
	W(C)	W(C)		WATER (QL-C)
	W(B)	W(B)		WATER (QL-B)
	##"W	##"W	##"W	WATER FOR LABELED PIPE SIZES (QL-D)
	##"W(C)	##"W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
	##"W(B)	##"W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
	NW	NW	NW	NON-POTABLE WATER (QL-D)
	NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
	NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
	##"NW	##"NW	##"NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
	##"NW(C)	##"NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
	##"NW(B)	##"NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
	STM	STM	STM	STEAM (QL-D)
	STM(C)	STM(C)		STEAM (QL-C)
	STM(B)	STM(B)		STEAM (QL-B)
	##"STM	##"STM	##"STM	STEAM FOR LABELED PIPE SIZES (QL-D)
	##"STM(C)	##"STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
	##"STM(B)	##"STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
	SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
	SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
	SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
	Σ##"SS	Σ##"SS	Σ##"SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
	Σ##"SS(C)	Σ##"SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
	Σ##"SS(B)	Σ##"SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
	SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
	SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
	SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
	G	G	G	GAS (QL-D)
	G(C)	G(C)		GAS (QL-C)
	G(B)	G(B)		GAS (QL-B)
	##"G	##"G	##"G	GAS FOR LABELED PIPE SIZES (QL-D)
	##"G(C)	##"G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
	##"G(B)	##"G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
	P	P	P	PETROLEUM (QL-D)
	P(C)	P(C)		PETROLEUM (QL-C)
	P(B)	P(B)		PETROLEUM (QL-B)
	##"P	##"P	##"P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
	##"P(C)	##"P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
	##"P(B)	##"P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
	TC			TRAFFIC CONTROL (QL-D)
	TC(C)			TRAFFIC CONTROL (QL-C)
	TC(B)			TRAFFIC CONTROL (QL-B)
	UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
			MARKER
X	X	X	SPLICE BOX
			CABINET
			VENT
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
E	E	E	ELECTRIC BOX
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WELL
W	W	W	WATER VAULT
			WATER VALVE MARKER
			STAND PIPE

EXISTING	PROPOSED	TEMPORARY	
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
			SANITARY SEWER FORCE MAIN VALVE
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE
TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL MANHOLE/ ELECTRIC COMMUNICATIONS BOX
			TRAFFIC CONTROL PEDESTRIAN SIGNAL/BUTTON POST

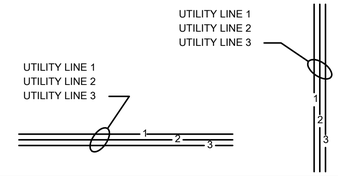
MISCELLANEOUS

	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
TH	TEST HOLE (QL-A ONLY)
EOI	END OF INFORMATION
	QUALITY LEVEL (QL) DELINEATION
123	POLE ID
A0	SANITARY SEWER MANHOLE (SSMH) ID
C123	CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)
	END OF UTILITY

ABBREVIATIONS

MANHOLE = LENGTH x WIDTH x DEPTH
PR TELEPHONE PAIR SIZE
SVC SERVICE, UNKNOWN SIZE/TYPE
MTD MULTIPLE TILE DUCT
MCD MULTIPLE CONCRETE DUCT
DIP DUCTILE IRON PIPE
TRD TRANSITE (ASBESTOS) DUCT
FOC FIBER OPTIC CABLE
CIP CAST IRON PIPE
SC SCREEN CABLE
PE POLYETHYLENE
PVC POLY VINYL CHLORIDE
STR FIBER STRAND SIZE
TCP TERRA COTTA PIPE
ACP ASBESTOS CONCRETE PIPE
VCP VITRIFIED CLAY PIPE
STD SINGLE TILE DUCT
SCPD SINGLE CREOSOTE PINE DUCT
SD SPLIT DUCT
3PH 3 PHASE ELECTRIC

MULTI-UTILITY IDENTIFICATION



QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

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

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

DEKALB · COUNTY · GEORGIA · 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789

GENERAL NOTES

EXISTING UTILITIES

1. THE FOLLOWING UTILITY OWNERS MAY HAVE FACILITIES THAT CONFLICT WITH CONSTRUCTION ON THIS PROJECT:

NAME OF UTILITY OWNER	UTILITY
AGL RESOURCES	GAS
ZAYO GROUP	FIBER OPTICS
AT&T	PHONE
COMCAST	CABLE
GEORGIA POWER COMPANY	ELECTRIC
DEKALB COUNTY WATERSHED MANGEMENT	WATER & SEWER

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL COORDINATE WORK WITH THE UTILITY COMPANIES.

2. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE, BASED ON THE BST AVAILABLE INFORMATION AND MAY NOT REFLECT ALL FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTIN UTILITY LOCATIONS PRIOR TO CONSTRUCTION. FOR UTILITY LOCATES CONTACT: GEORGIA 811 BY PHONE （811 OR 1-800-282-7411） AT LEAST 48 HOURS （TWO BUSINESS DAYS） PRIOR TO EXCAVATION.

3. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY DELAY OR DAMAGE CAUSED BY UTILITY FACILITIES, OBSTRUCTION, OR ANY OTHER ITEM NOT BEING REMOVED OR RELOCATED IN ADVANCE OF THIS WORK.

SPECIFICATIONS

4. ANY REFERENCE TO THE DEPARTMENT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT （DWM） , AND REFERENCES TO THE ， DEPARTMENT'S SPECIFICATIONS， SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS （2009 EDITION, VERSION 1.0） . THE PROJECT SPECIFICATIONS AND THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, CURRENT EDITION.

5. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS （2009 EDITION, VERSION 1.0） ..

6. TO PURCHASE A COPY OF THE ABOVE-MENTIONED DESIGN STANDARDS. PLEASE CALL （770） 414-2383 OR （770） 621-7272.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFORM WITH ALL REQUIREMENTS OF THE SPECIFICATIONS. ESPECIALLY AS THEY RELATE TO COOPERATING WITH THE UTILITY OWNERS AND THE EXISTING UTILITY LOCATIONS THAT EXIST ON THE SITE.

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH ANY WORK TO BE PERFORMED BY THE UTILITY OWNERS OR OTHERS IN THE RIGHT-OF-WAY, AND ARRANGE A SCHEDULE OR OPERATIONS THAT WILL ALLOW FOR COMPLETION OF THIS PROJECT WITHOUT ANY DELAY.

9. DELETED.

10. REFERENCES IN THE PLANS TO A "QPL NUMBER" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION'S QUALIFIED PRODUCT LIST （QPL） , AS PUBLISHED ON THE GEORGIA DEPARTMENT OF TRANSPORTATION'S WEBSITE. THE PRODUCT TO BE INSTALLED SHALL BE LISTED UNDER THE RESPECTIVE "QPL NUMBER.

11. ALL REFERENCES TO "OR EQUAL" SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN "OR APPROVED EQUAL." THE ENGINEER SHALL BE RESPONSIBLE FOR APPROVING ALL "EQUALS."

12. REFERENCES IN THE PLANS TO A SPECIFICATIONS NUMBER OR SPECIAL PROVISION NUMBER SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, 2013 EDITION. AS MODIFIED BY THE DEPARTMENT'S CURRENT SUPPLEMENTAL SPECIFICATIONS AND ANY CURRENT SHELF SPECIAL PROVISIONS PUBLISHED ON THE GEORGIA DEPARTMENT OF TRANSPORTATION'S WEBSITE. REFERENCES IN THE PLANS TO THE FOLLOWING SPECIFICATION OR SPECIAL PROVISION NUMBERS SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN SHELF SPECIAL PROVISIONS:

150	SPECIAL PROVISIONS TRAFFIC CONTROL
161	CONTROL OF SOIL EROSION AND SEDIMENTATION
163	MISCELLANEOUS EROSION CONTROL ITEMS
165	MAINTENANCE OF TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES
171	SILT FENCE
700	GRASSING
882	LIME
891	FERTILIZERS
894	FENCING
919	RAISED PAVEMENT MARKERS

TRAFFIC CONTROL

13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PERMITTING AT LEAST ONE LANE OF TRAFFIC TO MOVE THROUGH THE CONSTRUCTION SITE. ALL FLAG MEN, WARNING SIGNS, BARRICADES AND LIGHTS NECESSARY TO CONTROL TRAFFIC AND PROTECT THE PUBLIC SHALL BE FURNISHED BY THE CONTRACTOR AND INCLUDED IN THE APPROPRIATE LUMP SUM TRAFFIC CONTROL COST LINE ITEM. TEMPORARY TRAFFIC CONTROL AND TRAFFIC CONTROL DEVICES WILL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" （MUTCD） , CURRENT EDITION. IN ADDITION, PROVISIONS OF GDOT'S SHELF SPECIAL PROVISION SECTION 150 - TRAFFIC CONTROL MUST BE MET.

14. THE CONTRACTOR SHALL RESTRICT WORK HOURS TO THE PERIOD FROM 7:00 AM TO 7:00 PM MONDAY THROUGH SATURDAY.

15. THE CONTRACTOR SHALL NOT INSTALL LANE CLOSURES, PACE TRAFFIC OR MOVE EQUIPMENT OR MATERIALS ON THE ROADWAY BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY.

16. TRAFFIC LOOPS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OPERATIONAL WITHIN 48 HOURS. FAILURE IN HAVING REPLACEMENT TRAFFIC LOOPS OPERATIONAL WITHIN THE TIME SPECIFIED WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGED PER THE CONTRACT.

WATERLINE INSTALLATION

17. CONTRACTOR SHALL NOTIFY THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR AT （404） 371-2135 48 HOURS PRIOR TO START OF CONSTRUCTION.

18. IN CASE OF EMERGENCY, CONTACT THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT AT （404） 270-6423 （24 HOURS A DAY） .

19. THIS SITE CAN BE USED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOOD OR ADVERSE SOIL OR FOUNDATION CONDITIONS.

20. THE CONTRACTOR WILL COORDINATE WITH COUNTY COMMUNICATIONS OFFICE TO NOTIFY RESIDENTS OF WORK TO BE PERFORMED AND WATER SHUT OFFS. CONTRACTOR MUST PROVIDE SEVEN （7） DAYS' NOTICE TO COUNTY COMMUNICATIONS OFFICE IN ADVANCE OF ANY DISRUPTION OF SERVICE TO RESIDENTS. THE COUNTY WILL PROVIDE NOTICES TO RESIDENTS. THE CONTRACTOR SHALL PROVIDE ADDRESSES OF AFFECTED RESIDENTS.

21. THE COST FOR 2-INCH BALL VALVES SHALL BE INCLUDED IN THE COST OF THE 2-INCH COPPER PIPE.

22. ALL 6-INCH THROUGH 24-INCH WATER LINES ARE TO BE INSTALLED INSIDE SINGLE LAYER POLYETHYLENE WRAP. COST OF POLYETHYLENE WRAP TO BE INCLUDED IN THE COST OF THE 6-INCH THROUGH 24-INCH WATER LINE.

23. THE COST FOR THE 6-INCH THROUGH 12-INCH GATE VALVES INCLUDE THE VALVE BOX AND COVER, AND MARKER.

24. THE COST FOR THE 16-INCH AND 24-INCH GATE VALVES INCLUDE THE CONCRETE VAULT.

25. THE COST FOR THE 6-INCH THROUGH 16-INCH INSERTION VALVES INCLUDES THE VALVE BOX AND COVER.

26. THE BID PRICE FOR WATER MAIN SHALL INCLUDE THE COST FOR RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE-RODS, AND ALL FITTINGS.

27. THE BID PRICE FOR WATER MAIN SHALL INCLUDE THE COST FOR WET TAP AND CUT IN CONNECTIONS.

28. ALL CONCRETE AND/OR ASPHALT DRIVEWAYS ARE TO BE FREE BORED UNLESS OTHERWISE NOTED FOR WATERLINES 12 INCH DIAMETER AND LESS. THE COST FOR FREE BORE SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.

29. THE COST FOR REMOVAL AND DISPOSAL OF EXISTING ROADWAY MATERIAL AND UNSUITABLE SOILS SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN. ALL MATERIALS SHALL BE REMOVED FROM THE PROJECT AND DISPOSED OF IN AN APPROVED LANDFILL OR PROPERLY RECYCLED.

30. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUITABLE MATERIAL IN THE TRENCH AND OVER THE PIPE, AT NO ADDITIONAL COST （SEE DETAILS） . THE COST OF SAWCUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY COLD PATCH, AND TRENCH CAP SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN. NO SEPARATE MEASUREMENT WILL BE MADE AND NO CLAIMS WILL BE CONSIDERED FOR EXTRA COST.

31. ALL FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING MAXIMUM DRY DENSITY, STANDARD PROCTOR:
   A. UNPAVED AREAS OUTSIDE OF ROADWAY RIGHT-OF-WAY - 90% FOR ALL LIFTS
   B. UNPAVED AREAS OF ROADWAY RIGHT-OF-WAY - 95% FOR ALL LIFTS
   C. PAVED AREAS - 98% FOR ALL LIFTS

28. PLACE MATERIAL FROM EXCAVATION AWAY FROM DRIVEWAY CROSS DRAINS TO PREVENT OBSTRUCTION OF STORM DRAINAGE FLOW. NO EXCAVATION MATERIAL TO BE STOCKPILED IN GRASS AREAS.

29. NO SPOILS OR EXCAVATED MATERIAL SHALL BE PLACED ON THE PAVEMENT OR BEYOND THE CURB OR EDGE OF PAVEMENT AT ANY TIME DURING CONSTRUCTION. PAVEMENT SHALL BE CLEANED BY SWEEPING EACH DAY EXCAVATION OCCURS.

30. CONTRACTOR MAY STRING PIPE AS NECESSARY ALONG ROADWAY BETWEEN CURB/EDGE OF PAVEMENT AND RIGHT-OF-WAY. THE CONTRACTOR MAY NOT STRING MORE PIPE THAN WILL BE PLACED THAT DAY.

31. CONTRACTOR SHALL FILL IN ALL TRENCHES AT THE END OF EACH DAY TO ALLOW LOCAL TRAFFIC ACCESS. TRENCHES SHALL BE COVERED WITH PLATES IF PAVEMENT HAS NOT BEEN REPLACED.

32. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY UTILITY REQUIRED TO AVOID ANY PART OF THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.

33. FOR TAPS SMALLER THAN 20 INCHES, THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT WILL FURNISH THE TAPPING MACHINE, PROVIDE FOR WELDING, AND DO THE ACTUAL TAPPING OF THE MAIN.

34. ALL PLUGS SHALL BE INSTALLED PER END OF WATER LINE PLUG DETAILS.

35. ROCK EXCAVATION WILL NOT BE MEASURED SEPARATELY FOR COMPENSATION. COST SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.

36. FITTINGS SHALL BE INCLUDED IN THE COST OF THE WATER PIPE.

37. ALL BENDS, PLUGS AND TEES REQUIRE THRUST BLOCKS OR RESTRAINED JOINTS AND SHALL BE INSTALLED PER THRUST BLOCKING DETAILS. THE THRUST BLOCKS ARE NOT SHOWN ON DRAWINGS FOR CLARITY.

38. MINIMUM VERTICAL CLEARANCE REQUIRED BETWEEN WATER AND SEWER LINE IS 36 INCHES, ALL OTHER UTILITIES IS 18 INCHES, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.

39. MINIMUM HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER AND SEWER LINES IS 10 FEET, UNLESS DIRECTED OR APPROVED BY THE ENGINEER.

40. ALL WATER MAINS SHALL BE PRESSURE TESTED, DISINFECTED AND PASS THE BACTERIA TEST PRIOR TO CUSTOMER TIE IN. NO WATERLINE INSTALLATION WILL BE PAID FOR UNTIL LINE HAS SUCCESSFULLY BEEN PRESSURE AND BAC-T TESTED.

41. FIRE HYDRANT LOCATIONS CAN BE ADJUSTED IN FIELD ONLY WHEN DIRECTED OR APPROVED BY THE ENGINEER.

42. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER.

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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

8/28/2015 CONBDR

P.I. No.
0008121/0012789

GENERAL NOTES (CONTINUED)

43. THE CONTRACTOR SHALL MAINTAIN RECORDS AS WORK PROGRESSES AND SUBMIT DIMENSIONAL SKETCHES WITH MONTHLY PAY ESTIMATES. AN AS-BUILT SET OF CONSTRUCTION PLANS IN HARD COPY AND ELECTRONIC FORMAT (PDF AND AUTOCAD OR MICROSTATION) SHALL BE SUBMITTED WITH FINAL PAY REQUEST. CONTRACTOR TO OBTAIN GPS COORDINATES AND ADD TO AS-BUILTS AT ALL BENDS, TEES, VALVES, FIRE HYDRANTS, PIPE DEFLECTIONS, AND PLUGS. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.

44. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE FOR THE OWNER AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY COUNTY INSPECTORS.

SERVICE LINE INSTALLATION

45. ALL SERVICES SHALL BE CHANGED OVER TO THE NEW WATER MAIN IN AREAS WHERE THE WATER MAIN IS ABANDONED. PROPERTY OWNERS SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CUTTING OFF THEIR SERVICE.

46. ALL SERVICE LINES SHALL BE 1'' DIAMETER. WHERE TWO METERS ARE LOCATED SIDE BY SIDE. THE CONTRACTOR SHALL PROVIDE A SINGLE 1'' DIAMETER SERVICE LINE FROM THE WATER MAIN WITH A WYE BRANCHING TO ¾'' DIAMETER SERVICE LINES TO EACH METER. THE WYE SHALL BE PLACED IN CLOSE PROXIMITY TO THE METERS.

47. ALL SERVICE LATERALS SHALL BE FREE BORED. THE FREE BORE SHALL BE INCLUDED IN THE BID PRICE FOR ''WATER SERVICE LINE.'' MEASUREMENT AND PAYMENT WILL BE MADE FOR IN-PLACE SERVICE LINES ONLY.

48. DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT (DWM) SHALL SUPPLY WATER METER AND RETRO SETTER TO CONTRACTOR FOR METERS THAT HAVE NOT BEEN UPGRADED. CONTRACTOR SHALL PROVIDE ALL OTHER MATERIAL REQUIRED FOR INSTALLATION PER DWM STANDARDS. ANY METERS THAT ARE REMOVED SHALL BE RETURNED TO DEKALB COUNTY'S STORAGE FACILITY AT 1580 ROADHAVEN DRIVE.

49. ANY METERS OR BACKFLOW DEVICES REMOVED DURING CONSTRUCTION SHALL BE REMOVED, RELOCATED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE COMMERCIAL WATER METER INSTALLATION DETAIL AND PAID FOR UNDER THE BID ITEM FOR ''REPLACE WATER METER.'' METER BOXES REPLACED WHEN DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE BID PRICE FOR ''REPLACE WATER METER.''

50. ALL SERVICE CHANGE OVERS SHALL HAVE NEW MATERIAL FROM WATER MAIN TO METER, WHICH INCLUDES:

    A. CORPORATION STOP: FORD F-600-F-NL, MUELLER H-15000N OR H-10003N, OR JAMES JONES E-1500 OR E89 ONLY.

    B. CURB STOP: FORD B21-233W-NL OR B21-334W-NL, A.Y. MCDONALD 76102-W, OR JAMES JONES E-1901 ONLY.

    C. COPPER SERVICE LINE: TYPE 'K' IN ACCORDANCE WITH ASTM B88.

    D. ALL FITTINGS AND PIPE SHALL BE NO LEAD. FITTINGS SHALL BE INCLUDED IN THE BID PRICE FOR ''WATER SERVICE LINE.''

WATERLINE ABANDONMENT

51. ALL CUT & PLUGS OF EXISTING WATER MAINS, INCLUDING ABANDONMENT OF VALVE BOXES, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. NO SEPARATE PAYMENT FOR CUT AND PLUGS OR ASSOCIATED PAVEMENT REPAIR WILL BE MADE.

52. FOR WATER MAINS TO BE ABANDONED, CUT AND REMOVE A SMALL SECTION OF PIPE, PLUG BOTH SECTIONS, AND INSTALL THRUST BLOCK WHERE PLUG(S) MAY BE PRESSURIZED. ABANDONED WATER MAIN WILL NOT BE MEASURED FOR SEPARATE PAYMENT.

53. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL FLOWABLE FILL IN SECTIONS OF PVC PIPE UNDER PAVEMENT AND ALL ASBESTOS CEMENT PIPE TO BE ABANDONED. FLOWABLE FILL SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ''SECTION 500 - CONTROLLED LOW STRENGTH FLOWABLE FILL'' OF THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, 2013 EDITION. MEASUREMENT AND PAYMENT WILL BE MADE BY THE LINEAR FEET OF PIPE ABANDONED AND FILLED WITH FLOWABLE FILL.

54. ALL ABANDONED VALVES SHALL HAVE THE LID AND TOP SECTION OF THE VALVE BOX REMOVED, AND THE HOLE SHALL BE FILLED WITH CONCRETE FROM THE VALVE TO THE ROADWAY SURFACE. NO SEPARATE PAYMENT FOR VALVE ABANDONMENT WILL BE MADE.

ROADWAY

55. PAVEMENT REMOVED SHALL BE REPLACED BY CONCRETE UNTIL MILLING AND RESURFACING IS DONE. THIS WILL BE INCLUDED IN THE PRICE BID FOR WATER MAIN. AFFECTED ROADWAY SURFACES SHALL BE PLATED OR FLUSH WITH ADJACENT PAVEMENT AT ALL TIMES.

56. STORM DRAIN STRUCTURES, VALVES, MANHOLES, ETC. SHALL BE ADJUSTED TO GRADE AS DIRECTED BY ENGINEER. COST OF ADJUSTMENTS SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT OVERLAY.

57. OPEN CONSTRUCTION PITS SHALL BE BACKFILLED AND CLOSED AT THE END OF EACH WORKING DAY. EXCEPTIONS MAY BE APPROVED BY THE ENGINEER. ANY ROAD CUT THAT IS NOT POURED BACK FLUSH BY THE END OF THE DAY MUST BE COVERED BY A STEEL PLATE.

58. STEEL PLATES SHALL BE SECURED TO THE PAVEMENT BY PLACING TEMPORARY ASPHALT AROUND ALL EDGES TO ENSURE THAT NO DAMAGE TO VEHICLES WILL OCCUR. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO VEHICLES CAUSED BY STEEL PLATES. CONTRACTOR SHALL INSPECT PLATES TWICE DAILY TO ENSURE THEY REMAIN SECURE TO THE PAVEMENT.

59. CONTRACTOR SHALL MILL AND REPAVE ALL LANES OF ROADWAY AS DESIGNATED BY THE LIMITS OF OVERLAY SHOWN ON THE PLANS. THIS WORK WILL INCLUDE MILLING THE TOP OF THE CONCRETE CAP OVER THE WATERLINE TRENCHES DURING THE MILLING OF THE ENTIRE ROADWAY.

60. ALL MILLED SURFACES SHALL BE COVERED WITHIN 7 DAYS. FAILURE TO COVER MILLED SURFACES WITH ASPHALTIC CONCRETE MIX AS REQUIRED BY THE APPLICABLE TYPICAL SECTION SHALL BE CONSIDERED A FAILURE TO COMPLY WITH THE REQUIREMENTS OF SECTION 150 TRAFFIC CONTROL AND SHALL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES PER THE CONTRACT.

PRESERVATION OF PROPERTY AND IMPROVEMENTS

61. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO RECORD A VIDEO WITHIN THE RIGHT OF WAY AND ALL ADJACENT AREA, INCLUDING DRIVEWAYS, SIDEWALKS, MAILBOXES AND ANYTHING THAT ALREADY LOOKS BROKEN.

62. NO SPOILS SHALL BE PLACED BEYOND THE CURB OR EDGE OF PAVEMENT AT ANY TIME DURING CONSTRUCTION.

63. EVERY DISTURBED, UNPAVED AREA SHALL BE SODDED IN KIND, INCLUDING FESCUE GRASS AREA. THE WORK SHALL BE PERFORMED BY A LANDSCAPE SPECIALIST SKILLED IN THIS TYPE OF WORK. MATERIALS SHALL NOT BE STORED ON ANY GRASSED AREAS.

64. IF A MAILBOX MUST BE TAKEN DOWN DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE IT OR TEMPORARILY RELOCATE IT SO AS NOT TO CAUSE ANY DISRUPTION OF MAIL DELIVERY. THE WORK WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. THE COST SHALL BE INCLUDED IN OTHER WORK,

65. ANY SIGNS, TREES, MAILBOXES, FENCE, WALLS OR SPRINKLER SYSTEM WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR UNLESS NOTED OTHERWISE AT NO ADDITIONAL COST TO THE COUNTY. COST WILL BE INCLUDED IN OTHER WORK.

66. CURBS, SIDEWALKS, HANDICAP RAMPS, DRIVEWAYS, ETC. DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT PROPER GRADE AND CONDITION. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION UNLESS PRIOR APPROVAL BY ENGINEER IS PROVIDED.

67. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT DRIVEWAYS, SIDEWALKS, CURBS AND CATCH BASINS DURING CONSTRUCTION (TAKE A VIDEO).

68. ALL EXISTING DRAINAGE PIPES AND STRUCTURES WITHIN THE PROJECT SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.

69. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY STORM DRAINAGE, SANITARY SEWER, POTABLE WATER, OR OTHER UTILITY INFRASTRUCTURE DAMAGED AS A RESULT OF THE PROPOSED WORK AT NO ADDITIONAL COST TO THE DEPARTMENT OR UTILITY OWNER.

70. THE CONTRACTOR SHALL PROTECT ALL POST-MOUNTED STREET SIGNS WITHIN THE PROJECT LIMITS. IF A STREET SIGN MUST BE MOVED DURING THE COURSE OF CONSTRUCTION, IT MUST BE RESET AT THE END OF EACH WORKDAY. ALL LABOR AND MATERIALS REQUIRED TO SATISFY THIS REQUIREMENT SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL.

71. ALL SIGNS AND LIGHT POLES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL REMAIN UNLESS PLANS OR PROJECT ENGINEER INDICATE OTHERWISE. ALL WORK ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE BID PRICE FOR TRAFFIC CONTROL.

72. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL LOOP DETECTORS AFFECTED BY CONSTRUCTION.

PERMITS

73. A NOTICE OF INTENT (NOI) WILL BE REQUIRED FOR THIS PROJECT SINCE DISTURBED AREA IS GREATER THAN ONE ACRE, AS PER GA EPD PERMIT NO. GARI00002.

74. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES AND SHALL BE RESPONSIBLE FOR ALL FEES INVOLVED WITH OBTAINING PERMITS.

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		*DATE:*		DRAWING No.
BACKCHECKED:		*DATE:*		44-0003
CORRECTED:		*DATE:*		
VERIFIED:		*DATE:*		

8/28/2015 CONBDR

P.I. No.
0008121/0012789

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	44-005	44-006	44-007	44-008	44-009	NOTES
WATER									
670-1020	WATER MAIN, 2 IN	LF	60	20			40		2" COPPER BALL VALVES ARE TO BE INCLUDED IN THE BID PRICE FOR THE COPPER PIPE
670-1060	WATER MAIN, 6 IN	LF	405	20	120	85	180		ROCK EXCAVATION, PRESSURE AND BAC-T TESTING, SAW CUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY ASPHALT COLD PATCH, TRENCH CAP, RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE RODS, FITTINGS, WET TAP AND CUT IN CONNECTIONS TO WATER MAINS, AND POLYETHYLENE WRAP SHALL BE INCLUDED IN THE BID PRICE FOR THE DIP PIPE
670-1080	WATER MAIN, 8 IN	LF	2,191	640	560	400	591		ROCK EXCAVATION, PRESSURE AND BAC-T TESTING, SAW CUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY ASPHALT COLD PATCH, TRENCH CAP, RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE RODS, FITTINGS, WET TAP AND CUT IN CONNECTIONS TO WATER MAINS, AND POLYETHYLENE WRAP SHALL BE INCLUDED IN THE BID PRICE FOR THE DIP PIPE
670-1120	WATER MAIN, 12 IN	LF	25	25					ROCK EXCAVATION, PRESSURE AND BAC-T TESTING, SAW CUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY ASPHALT COLD PATCH, TRENCH CAP, RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE RODS, FITTINGS, WET TAP AND CUT IN CONNECTIONS TO WATER MAINS, AND POLYETHYLENE WRAP SHALL BE INCLUDED IN THE BID PRICE FOR THE DIP PIPE
670-1160	WATER MAIN, 16 IN	LF	90	40			50		ROCK EXCAVATION, PRESSURE AND BAC-T TESTING, SAW CUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY ASPHALT COLD PATCH, TRENCH CAP, RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE RODS, FITTINGS, WET TAP AND CUT IN CONNECTIONS TO WATER MAINS, AND POLYETHYLENE WRAP SHALL BE INCLUDED IN THE BID PRICE FOR THE DIP PIPE
670-1240	WATER MAIN, 24 IN	LF	1,693	417	460	400	416		ROCK EXCAVATION, PRESSURE AND BAC-T TESTING, SAW CUTTING, TRENCH EXCAVATION, BEDDING, BACKFILL, CONCRETE ENCASEMENT, TEMPORARY ASPHALT COLD PATCH, TRENCH CAP, RESTRAINED JOINTS, MECHANICAL RETAINER GLANDS, TIE RODS, FITTINGS, WET TAP AND CUT IN CONNECTIONS TO WATER MAINS, AND POLYETHYLENE WRAP SHALL BE INCLUDED IN THE BID PRICE FOR THE DIP PIPE
670-2060	GATE VALVE, 6 IN	EA	10	1	4	1	4		VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-2080	GATE VALVE, 8 IN	EA	12	6	1		5		VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-2120	GATE VALVE, 12 IN	EA	1	1					VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-2160	GATE VALVE, 16 IN, IN VAULT	EA	2	1			1		CONCRETE VAULT INCLUDED IN THE BID PRICE
670-2240	GATE VALVE, 24 IN, IN VAULT	EA	2	1			1		CONCRETE VAULT INCLUDED IN THE BID PRICE
670-2003	AIR RELEASE VALVE ASSEMBLY, 8 IN	EA	2	1		1			CONCRETE VAULT INCLUDED IN THE BID PRICE
670-2003	AIR RELEASE VALVE ASSEMBLY, 12 IN	EA	2	1	1				CONCRETE VAULT INCLUDED IN THE BID PRICE
670-7215	INSERTION VALVE, 6 IN	EA	3		1		2		VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-7220	INSERTION VALVE, 8 IN	EA	2	1			1		VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-7230	INSERTION VALVE, 12 IN	EA	1	1					VALVE BOX, COVER AND MARKER DISK TO BE INCLUDED IN THE BID PRICE
670-7240	INSERTION VALVE, 16 IN	EA	2	1			1		CONCRETE VAULT INCLUDED IN THE BID PRICE
670-4000	FIRE HYDRANT	EA	9	1	4	1	3		
670-9920	REMOVE EXISTING FIRE HYDRANT	EA	6	1	2	1	2		
670-5010	WATER SERVICE LINE, 1 IN	LF	550	185	60	205	100		LONG SIDE AND SHORT SIDE TAPS TO BE INCLUDED IN THE BID PRICE
670-5020	WATER SERVICE LINE, 2 IN	EA	125			65	60		LONG SIDE AND SHORT SIDE TAPS TO BE INCLUDED IN THE BID PRICE
670-9730	RELOCATE EXIST WATER METER, INCL BOX	EA	1				1		
670-0800	WATER METER	EA	15	2	4	7	2		METER TO BE PROVIDED BY DEKALB COUNTY WATERSHED MANAGEMENT
670-1650	BACKFLOW PREVENTION ASSEMBLY	EA	4	2	1		1		
INCIDENTAL COSTS									
670-2700	ABANDONMENT OF WATER VALVES	EA	8	8					COST FOR ABANDONMENT OF EXISTING VALVE TO INCLUDE IN PAVEMENT WITH CONCRETE AND OUT OF PAVEMENT WITH CONCRETE
600-0001	FLOWABLE FILL	CY	1				5		GROUT FILL 6-INCH DIP
600-0001	FLOWABLE FILL	CY	33	7	8	8	10		GROUT FILL 8-INCH DIP
600-0001	FLOWABLE FILL	CY	35	30			5		GROUT FILL 12-INCH DIP

NO WORK THIS SHEET

1 44-0004 **SUMMARY OF QUANTITIES**
SCALE:NOT TO SCALE

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

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
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REVISION DATES

WATERLINE RELOCATION PLANS

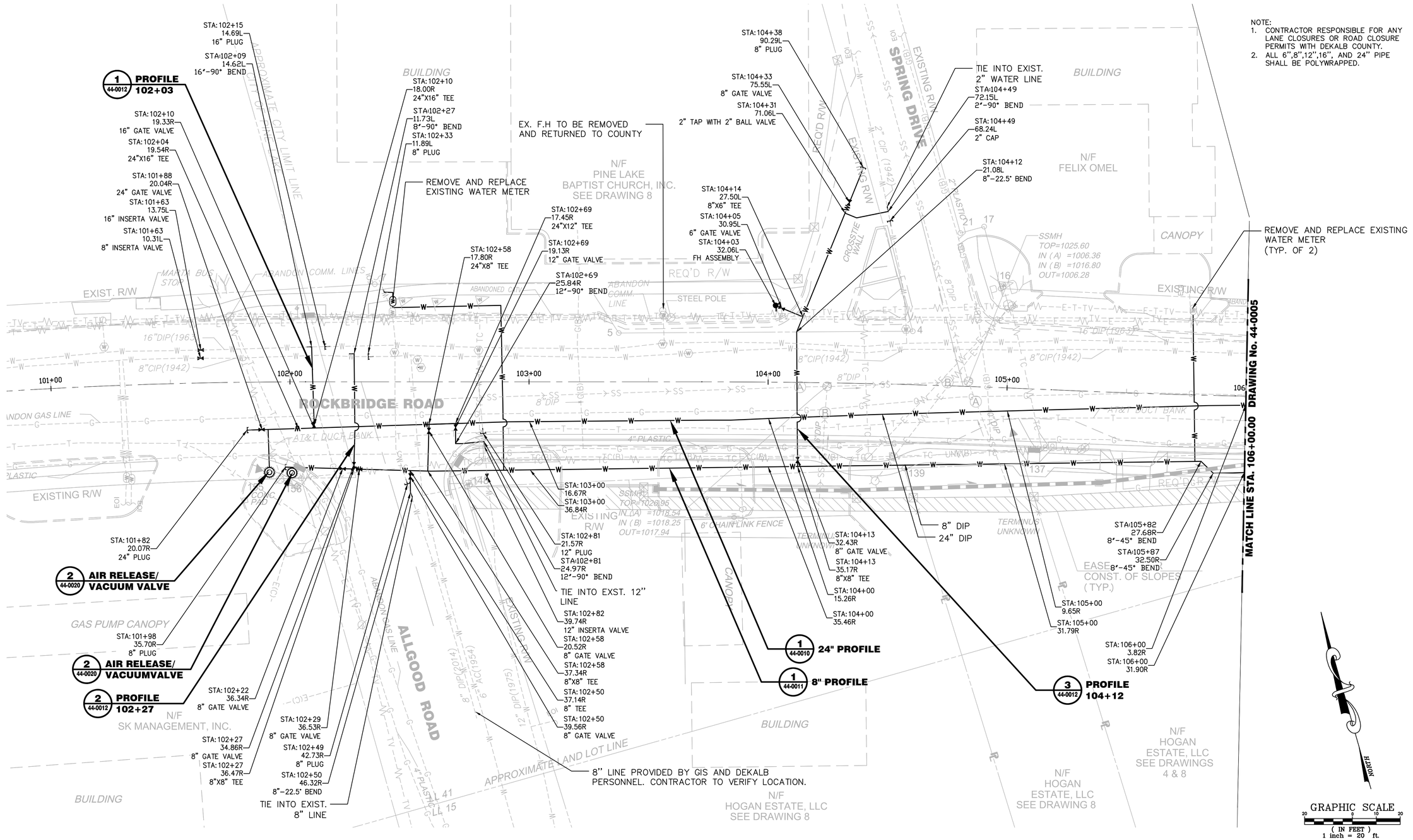
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789

NOTE:
1. CONTRACTOR RESPONSIBLE FOR ANY LANE CLOSURES OR ROAD CLOSURE PERMITS WITH DEKALB COUNTY.
2. ALL 6",8",12",16", AND 24" PIPE SHALL BE POLYWRAPPED.



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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		44-0005
VERIFIED:		DATE:		

8/28/2015 CONBDR

			P.I. No.
			0008121/0012789

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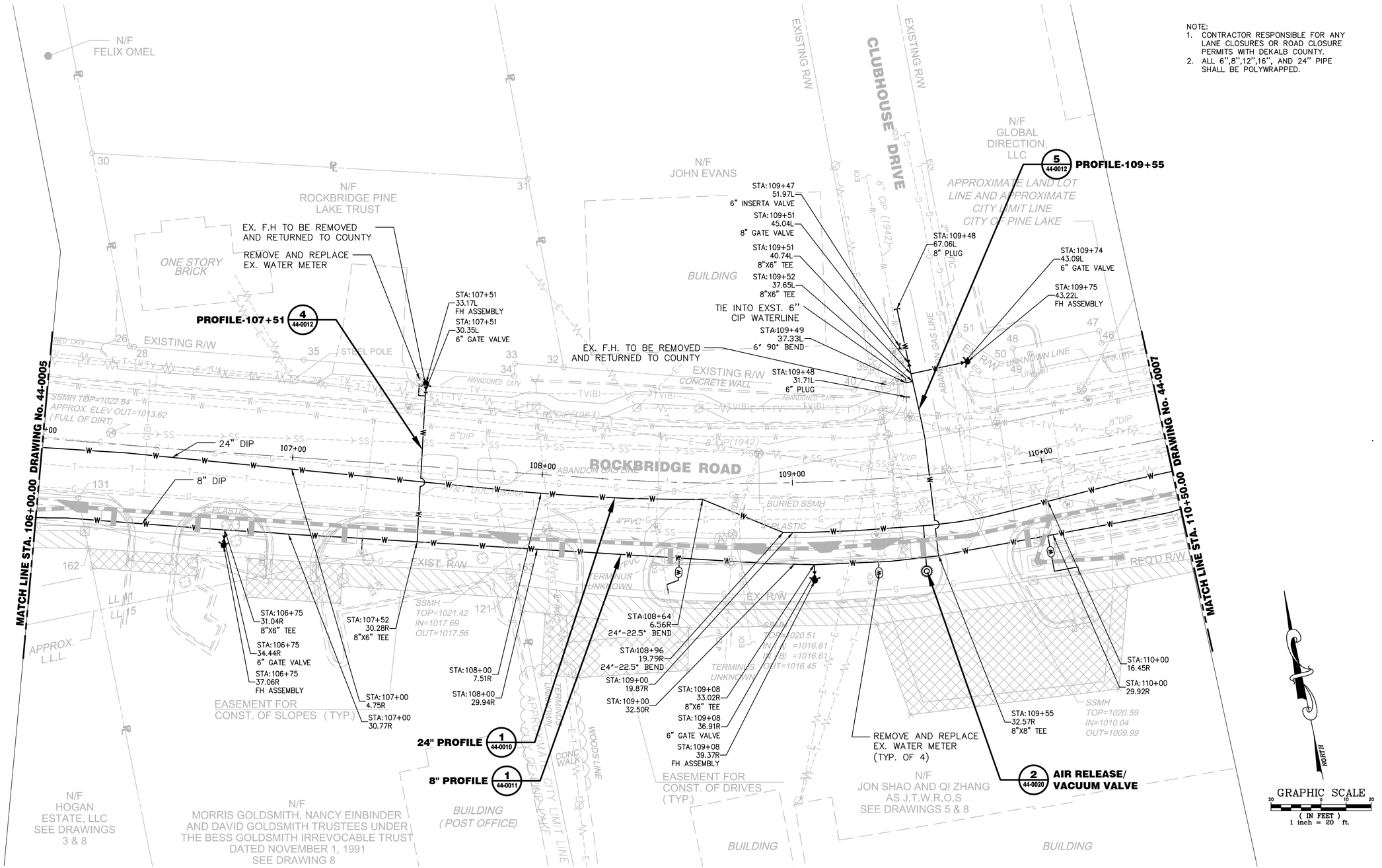

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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LIMIT OF ACCESS
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ORANGE BARRIER FENCE
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DEKALB · COUNTY · GEORGIA 1822

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REVISION DATES		

WATERLINE RELOCATION PLANS

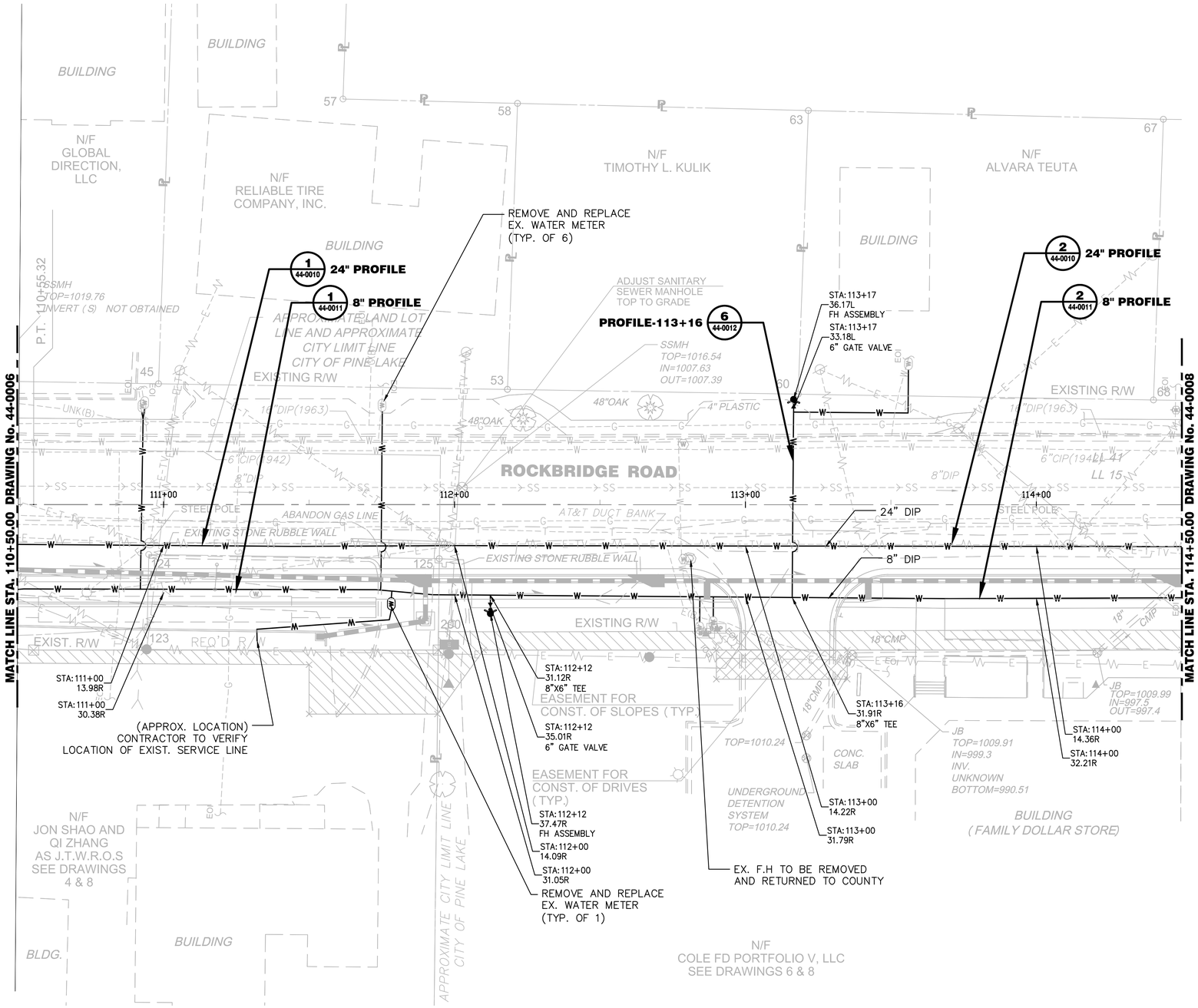
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

			P.I. No. 0008121/0012789

NOTE:
1. CONTRACTOR RESPONSIBLE FOR ANY LANE CLOSURES OR ROAD CLOSURE PERMITS WITH DEKALB COUNTY.
2. ALL 6",8",12",16", AND 24" PIPE SHALL BE POLYWRAPPED.



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

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

DEKALB · COUNTY · GEORGIA 1822

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REVISION DATES		

WATERLINE RELOCATION PLANS

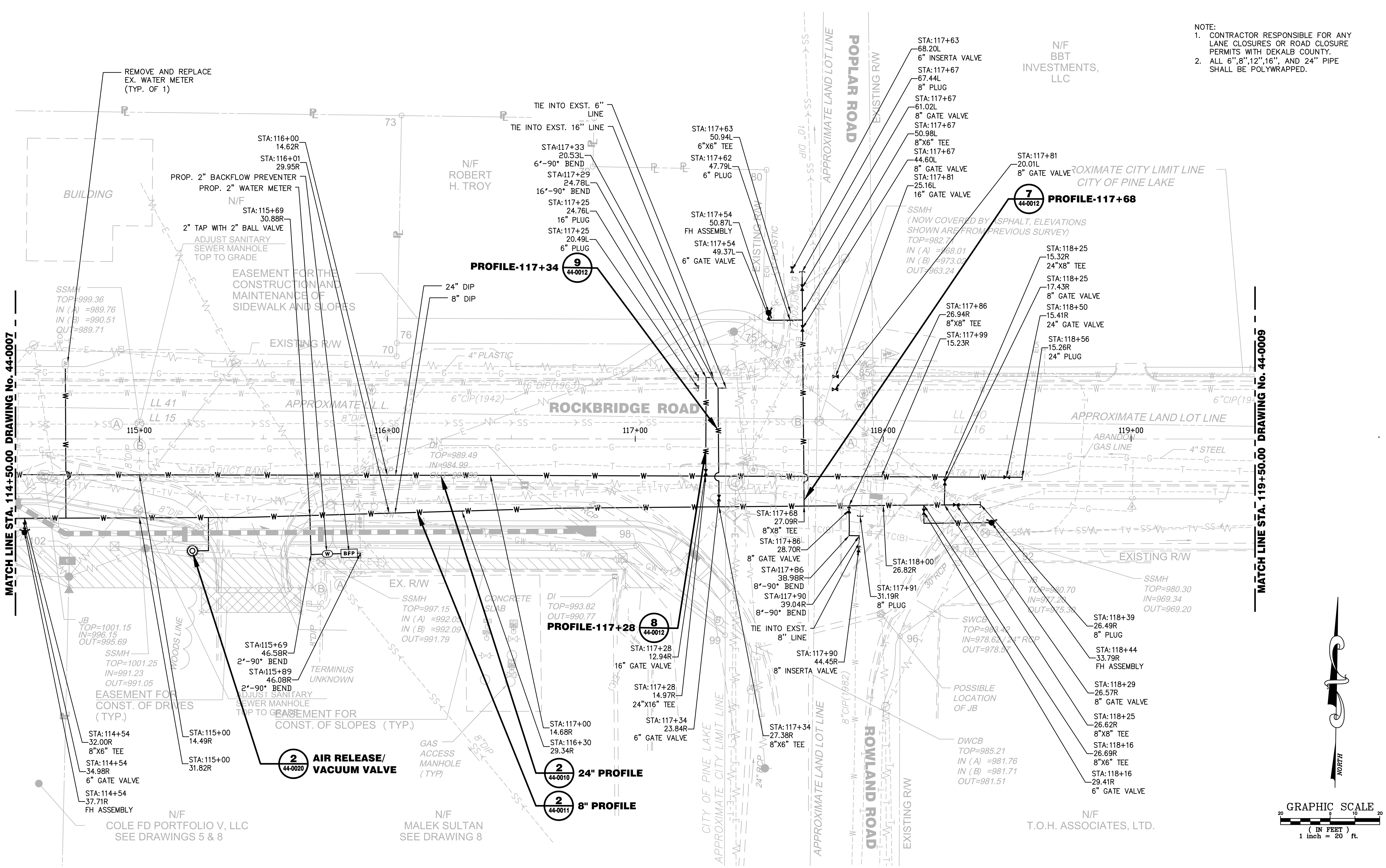
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789

NOTE:
1. CONTRACTOR RESPONSIBLE FOR ANY LANE CLOSURES OR ROAD CLOSURE PERMITS WITH DEKALB COUNTY.
2. ALL 6",8",12",16", AND 24" PIPE SHALL BE POLYWRAPPED.



PROPERTY AND EXISTING R/W LINE	℞
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	----C------F--
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	
BEGIN LIMIT OF ACCESS............BLA	
END LIMIT OF ACCESS.............ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

DEKALB COUNTY GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/28/2015 CONBDR

			P.I. No.
			0008121/0012789

NOTE:
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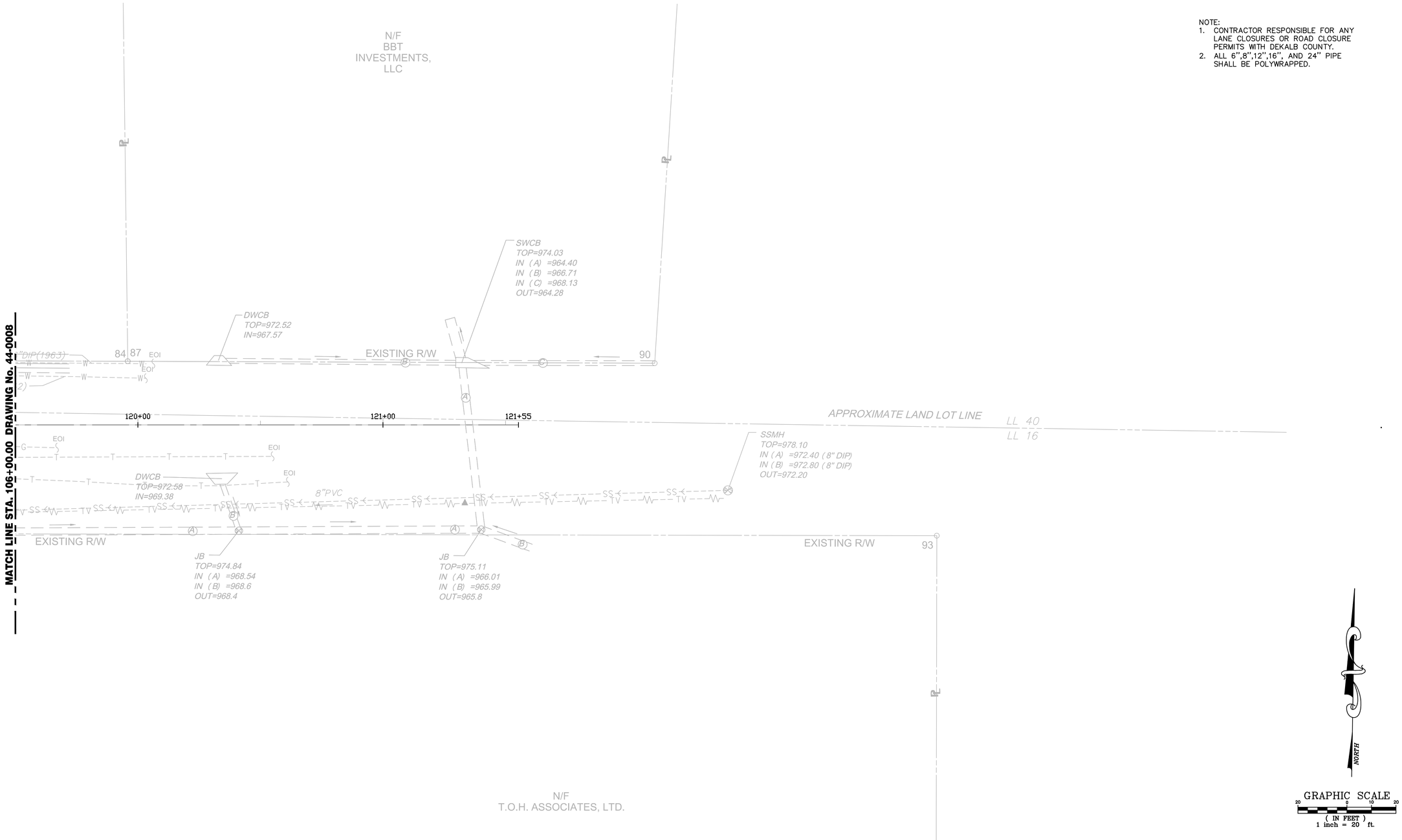

NORTH

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

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

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

DEKALB · COUNTY · GEORGIA 1822

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PRIME ENGINEERING INCORPORATED

REVISION DATES		

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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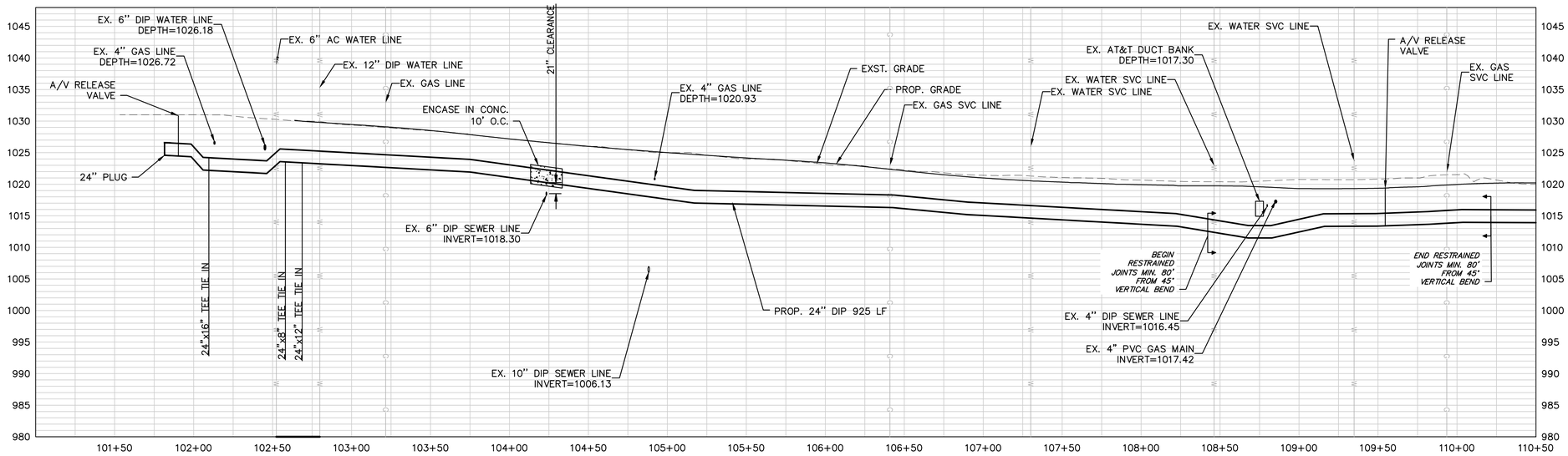
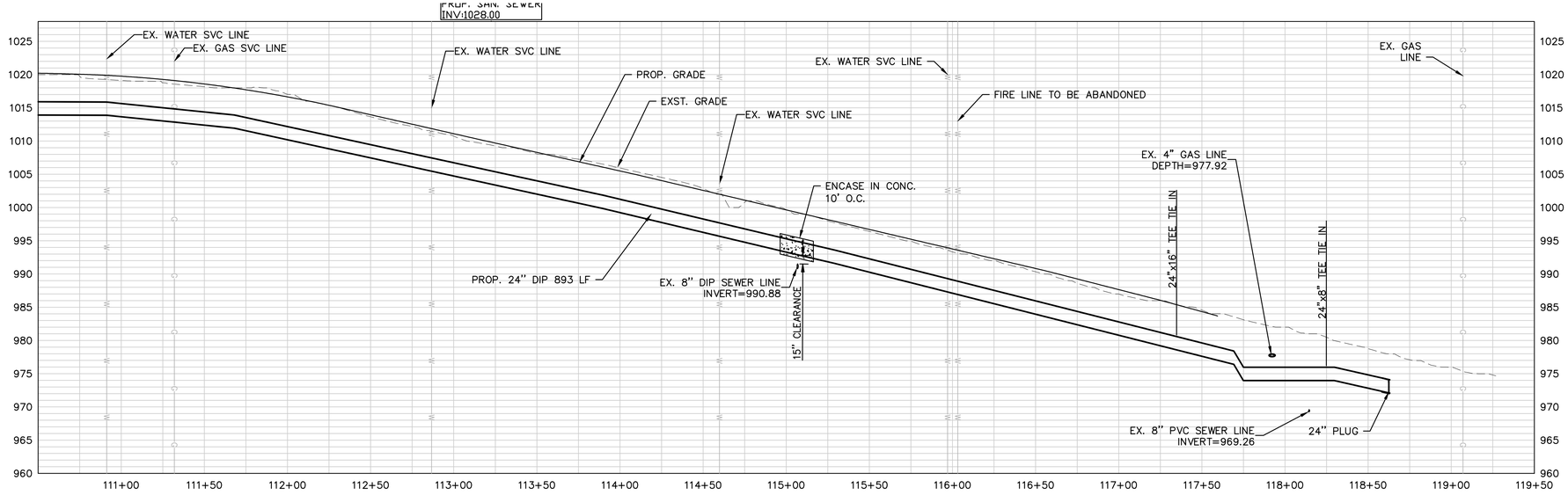
BACKCHECKED:		DATE:		44-0009
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789



1 (44-0010) **24" PROFILE (STA 101+25 TO STA 110+50)**
SCALE:1"=40'-HORZ.
1"=10'-VERT.



2 (44-0010) **24" PROFILE (STA 110+50 TO STA 119+50)**
SCALE:1"=40'-HORZ.
1"=10'-VERT.

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

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

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REVISION DATES		

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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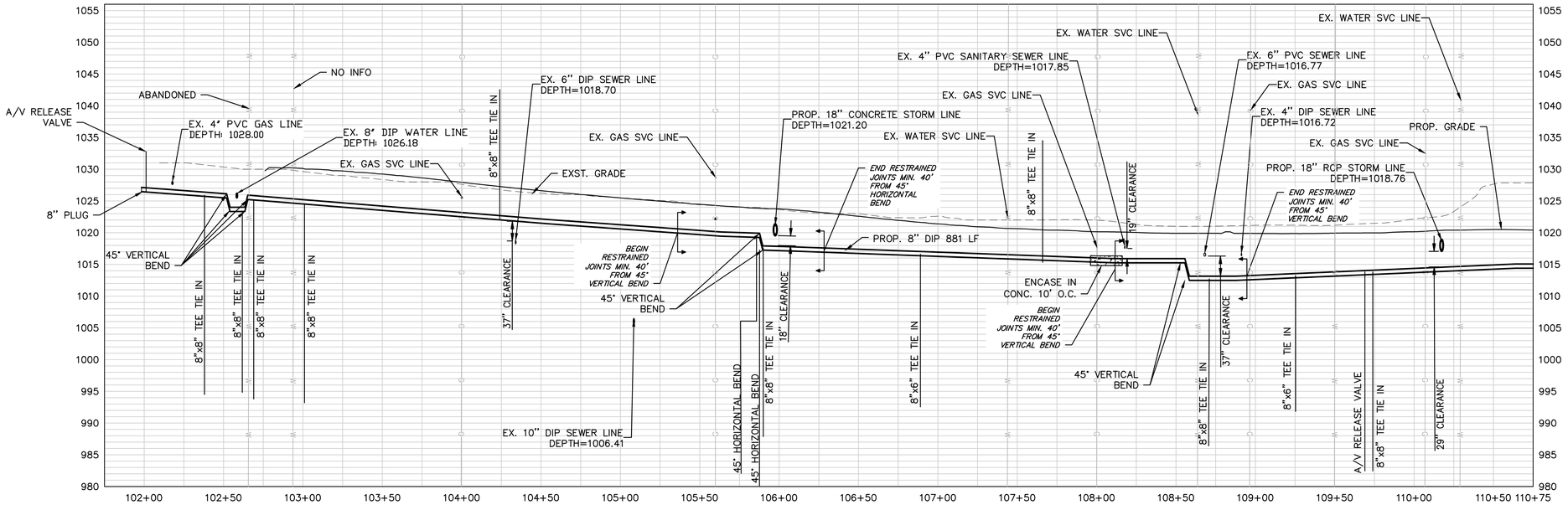
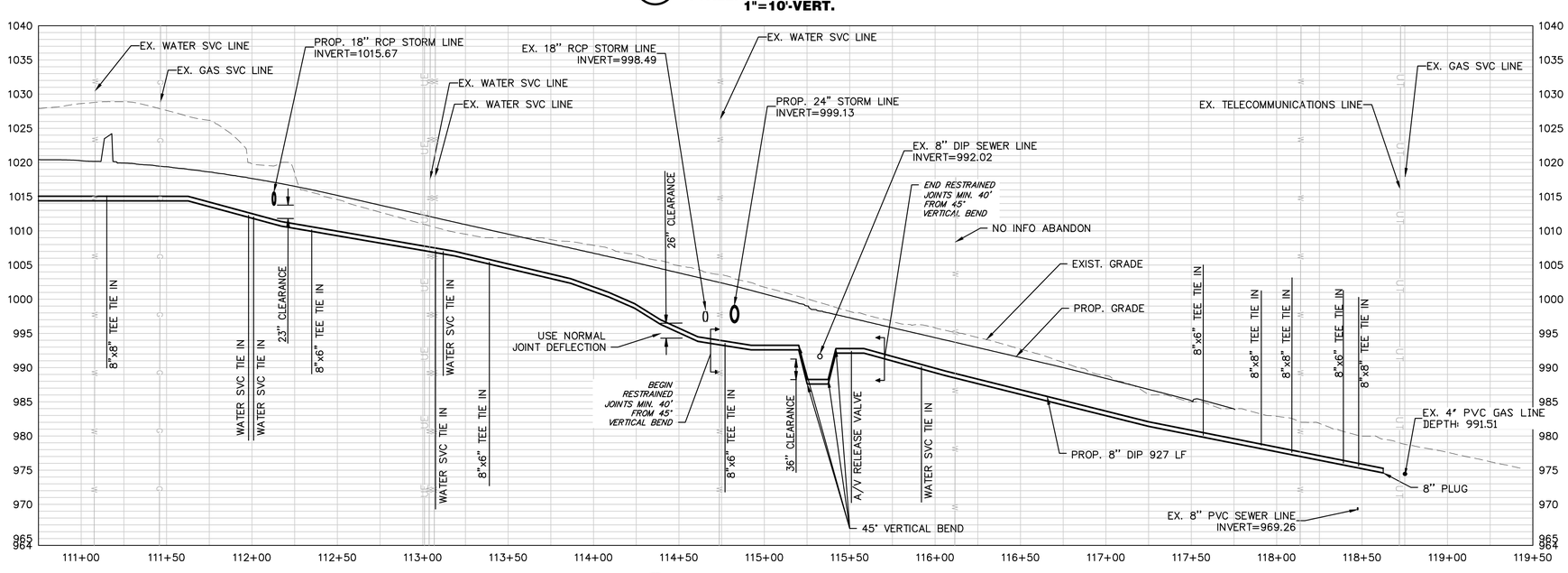
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789



1 (44-0011) **8" PROFILE (STA 101+75 TO STA 110+75)**
SCALE:1"=40'-HORZ.
1"=10'-VERT.



2 (44-0011) **8" PROFILE (STA 110+75 TO STA 119+50)**
SCALE:1"=40'-HORZ.
1"=10'-VERT.

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

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

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REVISION DATES

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ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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8/28/2015 CONBDR

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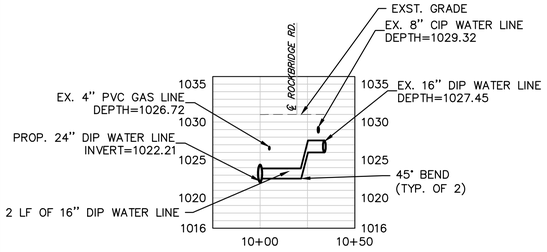
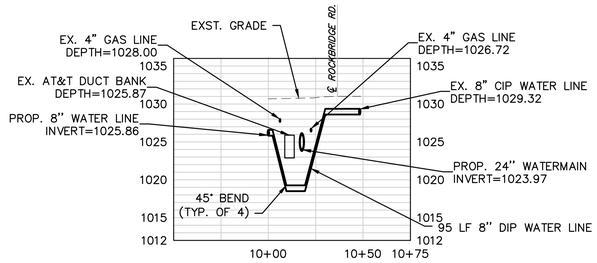
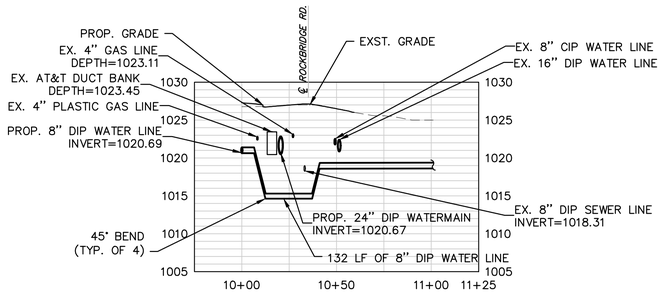
0008121/0012789



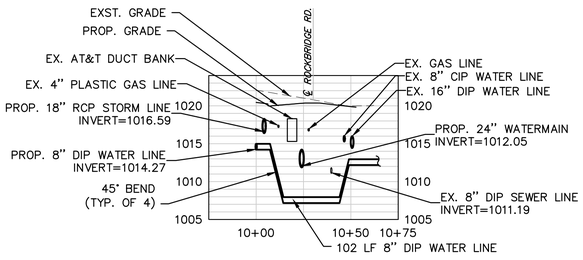
1 44-0012 PROFILE-102+03
SCALE:1"=40'-HORZ. 1"=10'-VERT.



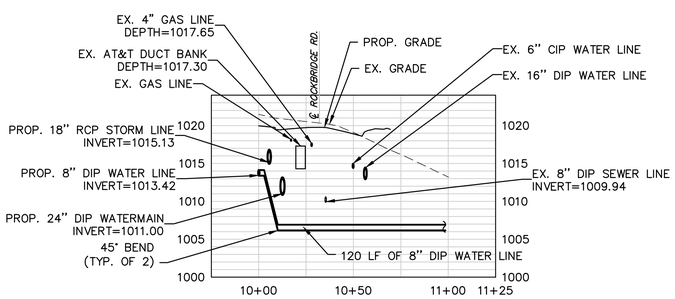
2 44-0012 PROFILE-102+27
SCALE:1"=40'-HORZ. 1"=10'-VERT.



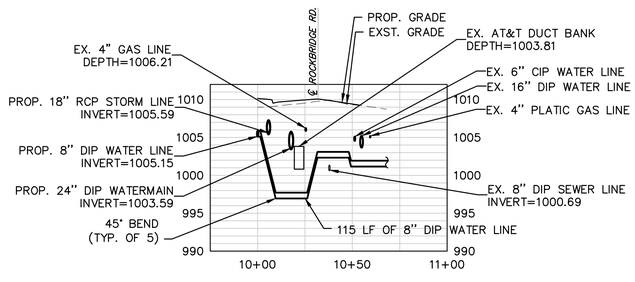
3 44-0012 PROFILE-104+12
SCALE:1"=40'-HORZ. 1"=10'-VERT.



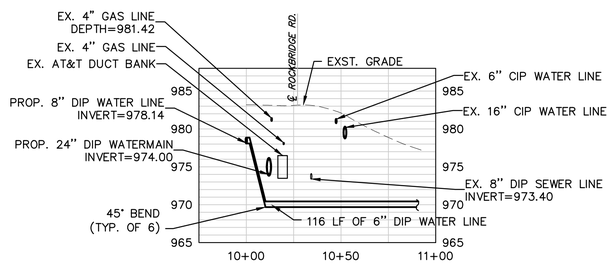
4 44-0012 PROFILE-107+51
SCALE:1"=40'-HORZ. 1"=10'-VERT.



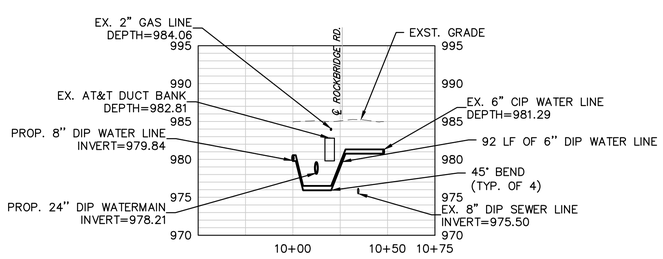
5 44-0012 PROFILE-109+55
SCALE:1"=40'-HORZ. 1"=10'-VERT.



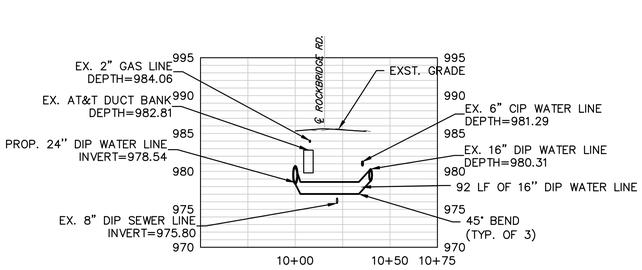
6 44-0012 PROFILE-113+16
SCALE:1"=40'-HORZ. 1"=10'-VERT.



7 44-0012 PROFILE-117+68
SCALE:1"=40'-HORZ. 1"=10'-VERT.



8 44-0012 PROFILE-117+28
SCALE:1"=40'-HORZ. 1"=10'-VERT.



9 44-0012 PROFILE-117+34
SCALE:1"=40'-HORZ. 1"=10'-VERT.

NOTE: THESE PROFILES TO BE ADJUSTED ONCE VACUUM EXTRACTION LOCATION WORK IS COMPLETE.

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

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

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REVISION DATES		

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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8/28/2015 CONBDR

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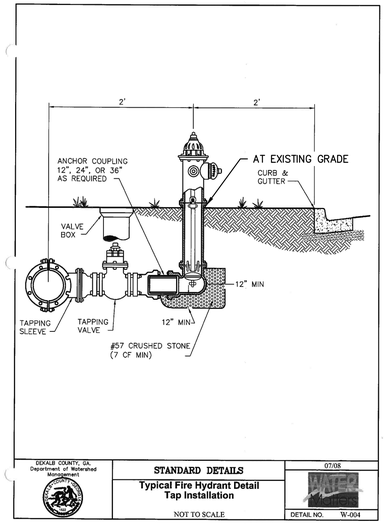
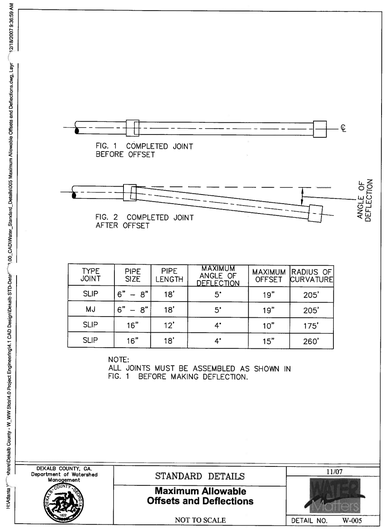


1 44-0013 FIRE HYDRANT ASSEMBLY (SIMILAR)

NOT TO SCALE

* MOST FH LOCATIONS HAVE WATERLINE IN PAVEMENT AREA.

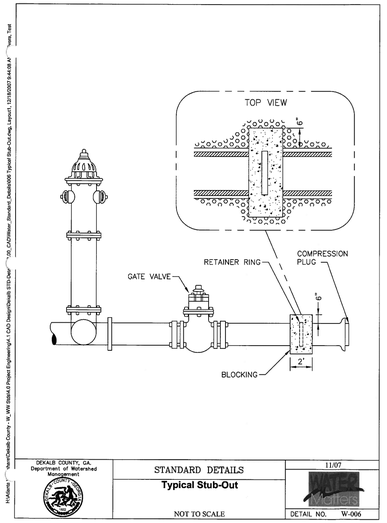


TYPE JOINT	PIPE SIZE	PIPE LENGTH	MAXIMUM ANGLE OF DEFLECTION	MAXIMUM OFFSET	RADIUS OF CURVATURE
SLIP	6" – 8"	18'	5°	19"	205'
MJ	6" – 8"	18'	5°	19"	205'
SLIP	16"	12'	4°	10"	175'
SLIP	16"	18'	4°	15"	260'

NOTE:
ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.

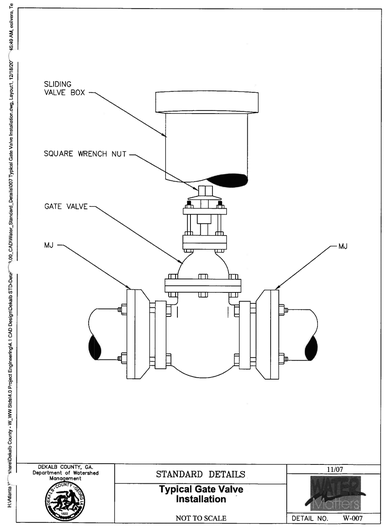
2 44-0013 ALLOWABLE DEFLECTION

NOT TO SCALE



3 44-0013 STUBOUT

NOT TO SCALE



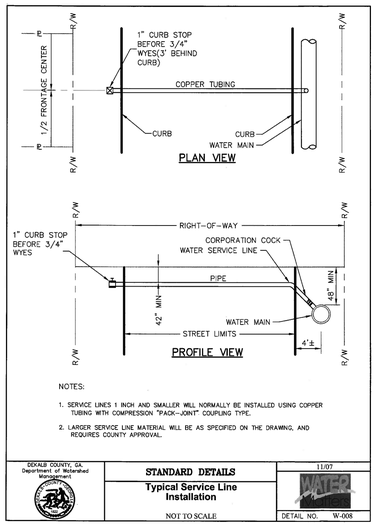
4 44-0013 GATE VALVE INSTALLATION

NOT TO SCALE

DIMENSIONS FOR CONCRETE BLOCKING FOR BENDS – HORIZONTAL				
BEND	SIZE	H (FT.)	B (FT.)	C = B/2 (FT.)
11 1/4°	30"	6	8.7	4.4
22 1/2°	30"	8	12.9	6.5
45°	30"	11	18.5	9.3

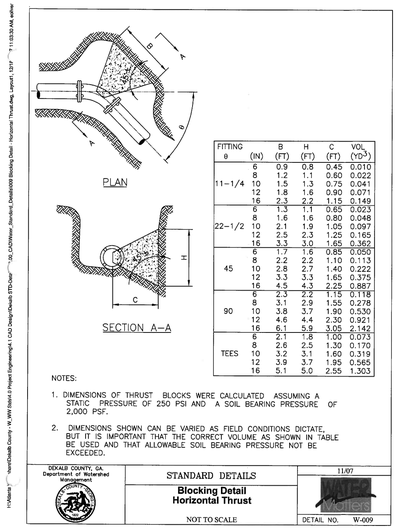
DIMENSIONS FOR CONCRETE BLOCKING FOR BENDS – VERTICAL			
BEND	SIZE	H (FT.)	B (FT.)
11 1/4°	30"	2	2.60
22 1/2°	30"	5	4.10
45°	30"	7	11.5

NOTE: SEE DETAIL 6,7, & 8/C–404 FOR DIMENSION DETAILS.



5 44-0013 SERVICE LINE INSTALLATION

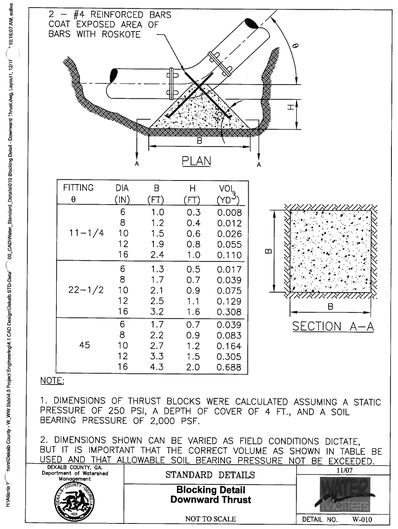
NOT TO SCALE



FITTING θ	(IN)	B (FT)	H (FT)	C (FT)	VOL. (YD³)
11–1/4	6	0.9	0.8	0.45	0.010
	8	1.2	1.1	0.60	0.022
	10	1.5	1.3	0.75	0.041
	12	1.8	1.6	0.90	0.071
	16	2.3	2.2	1.15	0.149
22–1/2	6	1.3	1.1	0.65	0.023
	8	1.6	1.6	0.80	0.048
	10	2.1	1.9	1.05	0.097
	12	2.5	2.3	1.25	0.165
	16	3.3	3.0	1.65	0.362
45	6	1.7	1.6	0.85	0.050
	8	2.2	2.2	1.10	0.113
	10	2.8	2.7	1.40	0.222
	12	3.3	3.3	1.65	0.375
	16	4.5	4.3	2.25	0.887
90	6	2.3	2.2	1.15	0.118
	8	3.1	2.9	1.55	0.278
	10	3.8	3.7	1.90	0.530
	12	4.6	4.4	2.30	0.921
	16	6.1	5.9	3.05	2.142
TEES	6	2.1	1.8	1.00	0.073
	8	2.6	2.5	1.30	0.170
	10	3.2	3.1	1.60	0.319
	12	3.9	3.7	1.95	0.565
	16	5.1	5.0	2.55	1.303

6 44-0013 HORIZONTAL THRUST BLOCK

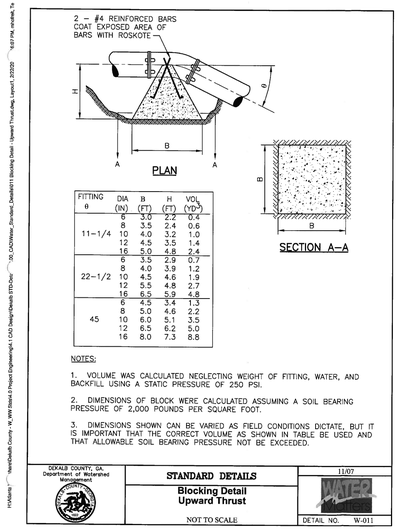
NOT TO SCALE



FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL. (YD³)
11–1/4	6	1.0	0.3	0.008
	8	1.2	0.4	0.012
	10	1.5	0.6	0.026
	12	1.9	0.8	0.055
	16	2.4	1.0	0.110
22–1/2	6	1.3	0.5	0.017
	8	1.7	0.7	0.039
	10	2.1	0.9	0.075
	12	2.5	1.1	0.129
	16	3.2	1.6	0.308
45	6	1.7	0.7	0.039
	8	2.2	0.9	0.083
	10	2.7	1.2	0.164
	12	3.3	1.5	0.305
	16	4.3	2.0	0.688

7 44-0013 DOWNWARD THRUST BLOCK

NOT TO SCALE



FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL. (YD³)
11–1/4	6	3.0	2.2	0.4
	8	3.5	2.4	0.6
	10	4.0	3.2	1.0
	12	4.5	3.5	1.4
	16	5.0	4.8	2.4
22–1/2	6	3.5	2.9	0.7
	8	4.0	3.9	1.2
	10	4.5	4.6	1.9
	12	5.5	4.8	2.7
	16	6.5	5.9	4.8
45	6	4.5	3.4	1.3
	8	5.0	4.6	2.2
	10	6.0	5.1	3.5
	12	6.5	6.2	5.0
	16	8.0	7.3	8.8

8 44-0013 UPWARD THRUST BLOCK

NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA
1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

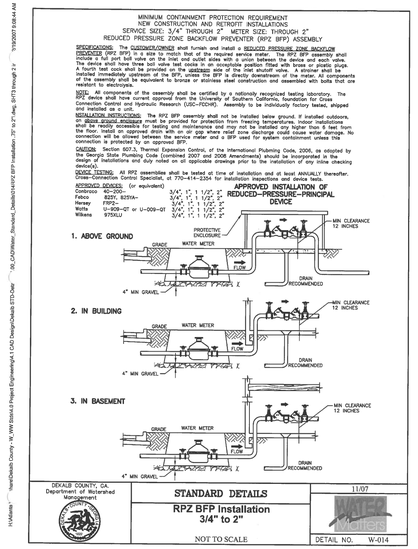
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

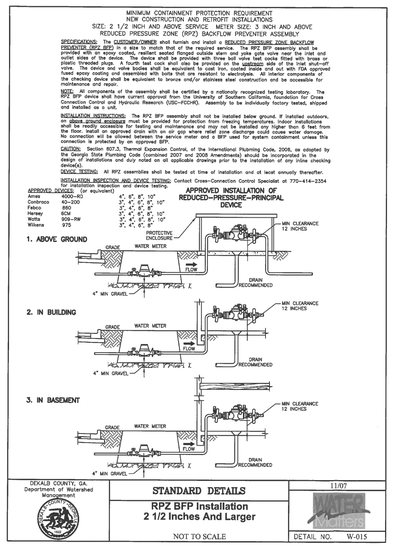
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	44-0013
CORRECTED:		DATE:	
VERIFIED:		DATE:	

8/28/2015 CONBDR

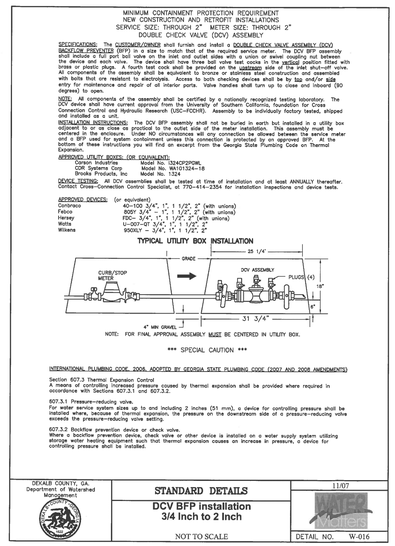
P.I. No.
0008121/0012789



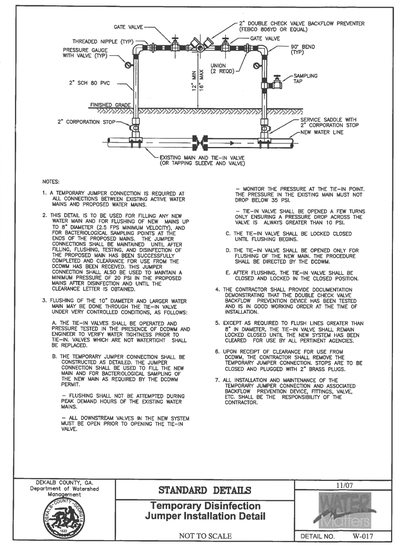
1 / 44-0014 RPZ BFP INSTALLATION 3/4" TO 2"
NOT TO SCALE



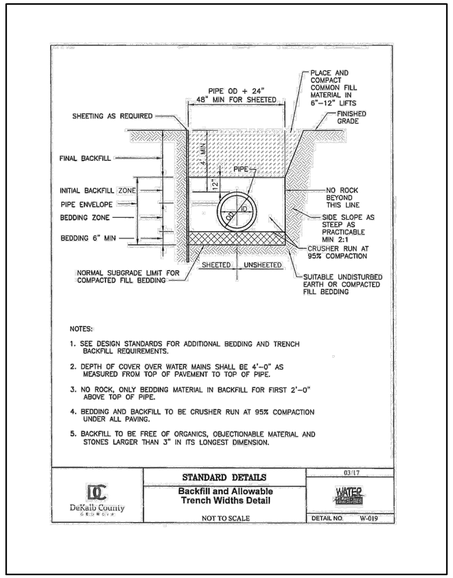
2 / 44-0014 RPZ BFP INSTALLATION 2 1/2" AND LARGER
NOT TO SCALE



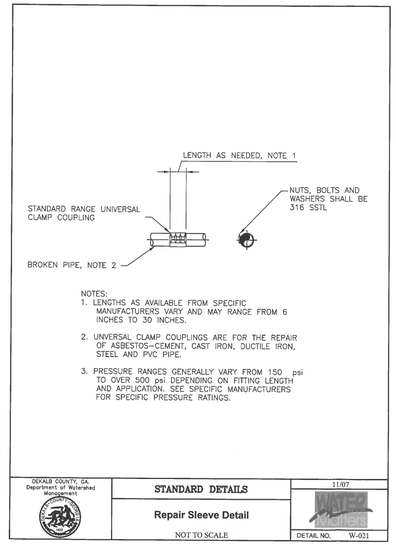
3 / 44-0014 DCV BFP INSTALLATION 3/4" TO 2"
NOT TO SCALE



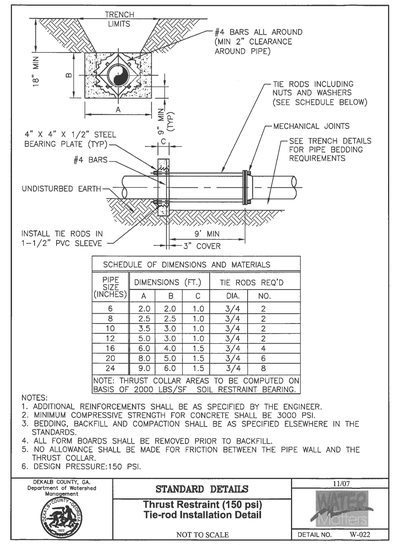
4 / 44-0014 TEMP. DISINFECTION JUMPER INSTALLATION
NOT TO SCALE



5 / 44-0014 BACKFILL AND ALLOWABLE TRENCH WIDTHS
NOT TO SCALE



6 / 44-0014 REPAIR SLEEVE
NOT TO SCALE



7 / 44-0014 THRUST RESTRAINT
NOT TO SCALE

RESTRAINED JOINTS REQUIREMENTS	
FITTING	LENGTH OF PIPE TO BE RESTRAINED (FT)
11 1/4°	20
22 1/2°	40
45°	80

8 / 44-0014 RESTRAINED JOINTS REQUIREMENTS
NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

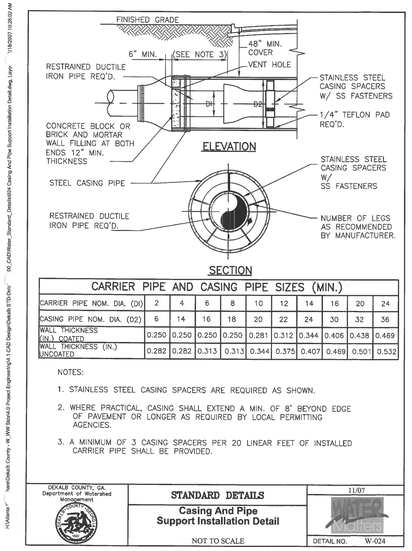
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0014
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No.
0008121/0012789



CARRIER PIPE AND CASING PIPE SIZES (MIN.)

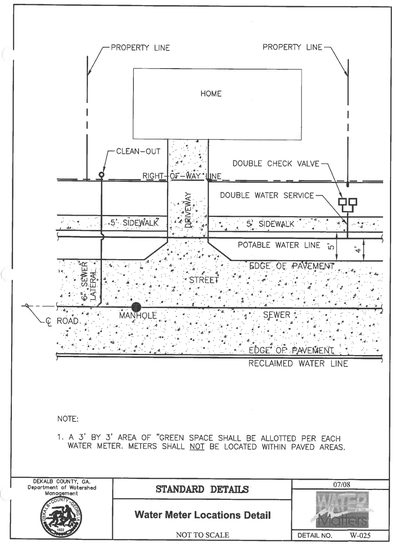
CARRIER PIPE NOM. DIA. (DI)	2	4	6	8	10	12	14	16	20	24
CASING PIPE NOM. DIA. (D2)	6	14	16	18	20	22	24	30	32	36
WALL THICKNESS (IN.) COATED	0.250	0.250	0.250	0.250	0.281	0.312	0.344	0.406	0.438	0.469
WALL THICKNESS (IN.) UNCOATED	0.282	0.282	0.313	0.313	0.344	0.375	0.407	0.469	0.501	0.532

NOTES:

1. STAINLESS STEEL CASING SPACERS ARE REQUIRED AS SHOWN.
2. WHERE PRACTICAL, CASING SHALL EXTEND A MIN. OF 8' BEYOND EDGE OF PAVEMENT OR LONGER AS REQUIRED BY LOCAL PERMITTING AGENCIES.
3. A MINIMUM OF 3 CASING SPACERS PER 20 LINEAR FEET OF INSTALLED CARRIER PIPE SHALL BE PROVIDED.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Casing And Pipe Support Installation Detail | NOT TO SCALE | 11/07 | DETAIL NO. W-024

1 / 44-0015 CASING & PIPE SUPPORT INSTALLATION
NOT TO SCALE

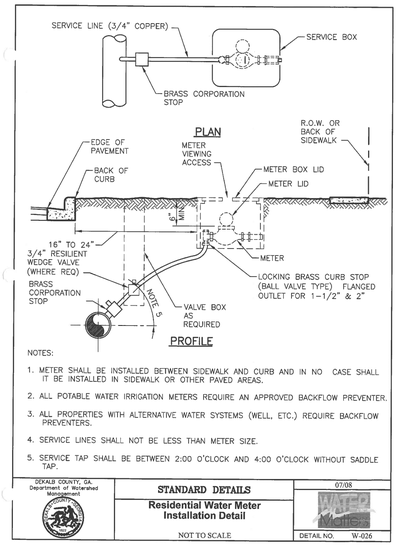


NOTE:

1. A 3' BY 3' AREA OF "GREEN SPACE SHALL BE ALLOTTED PER EACH WATER METER. METERS SHALL NOT BE LOCATED WITHIN PAVED AREAS.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Water Meter Locations Detail | NOT TO SCALE | 07/08 | DETAIL NO. W-025

2 / 44-0015 WATER METER LOCATIONS
NOT TO SCALE

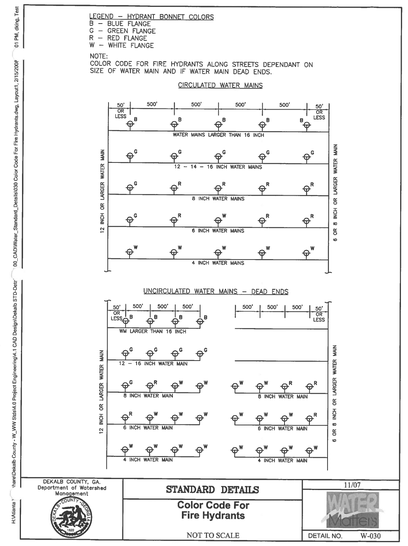


NOTES:

1. METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB AND IN NO CASE SHALL IT BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.
2. ALL POTABLE WATER IRRIGATION METERS REQUIRE AN APPROVED BACKFLOW PREVENTER.
3. ALL PROPERTIES WITH ALTERNATIVE WATER SYSTEMS (WELL, ETC.) REQUIRE BACKFLOW PREVENTERS.
4. SERVICE LINES SHALL NOT BE LESS THAN METER SIZE.
5. SERVICE TAP SHALL BE BETWEEN 2:00 O'CLOCK AND 4:00 O'CLOCK WITHOUT SADDLE TAP.

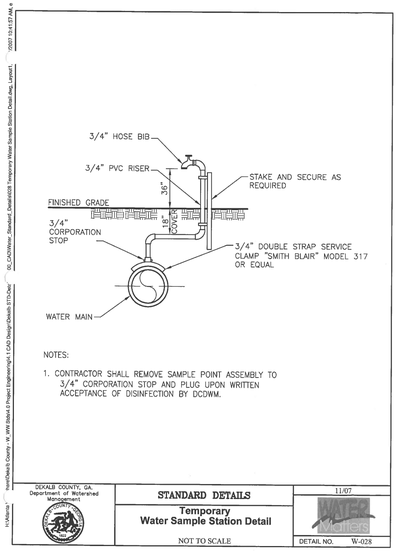
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Residential Water Meter Installation Detail | NOT TO SCALE | 07/08 | DETAIL NO. W-026

3 / 44-0015 RESIDENTIAL WATER METER INSTALLATION
NOT TO SCALE



DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Color Code For Fire Hydrants | NOT TO SCALE | 11/07 | DETAIL NO. W-030

4 / 44-0015 HYDRANT COLOR CODE
NOT TO SCALE

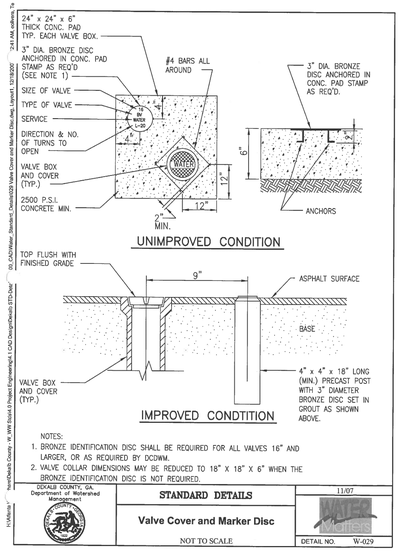


NOTES:

1. CONTRACTOR SHALL REMOVE SAMPLE POINT ASSEMBLY TO 3/4" CORPORATION STOP AND PLUG UPON WRITTEN ACCEPTANCE OF DISINFECTION BY DCDWM.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Temporary Water Sample Station Detail | NOT TO SCALE | 11/07 | DETAIL NO. W-028

5 / 44-0015 TEMP. WATER SAMPLE STATION
NOT TO SCALE

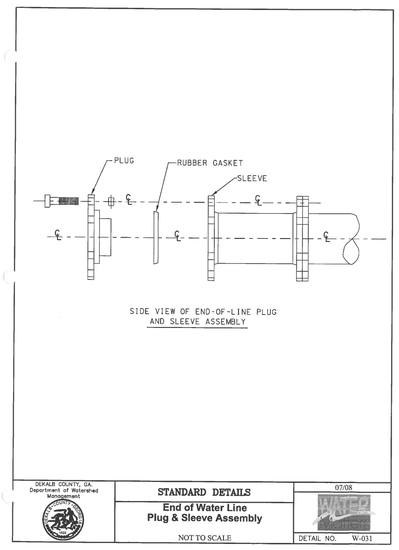


NOTES:

1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 16" AND LARGER, OR AS REQUIRED BY DCDWM.
2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18" X 18" X 6" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED.

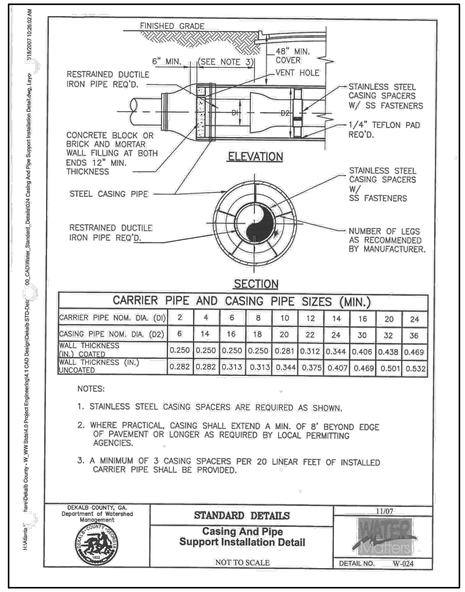
DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Valve Cover and Marker Disc | NOT TO SCALE | 11/07 | DETAIL NO. W-029

6 / 44-0015 VALVE COVER & MARKER DISC
NOT TO SCALE



DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: End of Water Line Plug & Sleeve Assembly | NOT TO SCALE | 07/08 | DETAIL NO. W-031

7 / 44-0015 PLUG & SLEEVE ASSEMBLY
NOT TO SCALE



CARRIER PIPE AND CASING PIPE SIZES (MIN.)

CARRIER PIPE NOM. DIA. (DI)	2	4	6	8	10	12	14	16	20	24
CASING PIPE NOM. DIA. (D2)	6	14	16	18	20	22	24	30	32	36
WALL THICKNESS (IN.) COATED	0.250	0.250	0.250	0.250	0.281	0.312	0.344	0.406	0.438	0.469
WALL THICKNESS (IN.) UNCOATED	0.282	0.282	0.313	0.313	0.344	0.375	0.407	0.469	0.501	0.532

NOTES:

1. STAINLESS STEEL CASING SPACERS ARE REQUIRED AS SHOWN.
2. WHERE PRACTICAL, CASING SHALL EXTEND A MIN. OF 8' BEYOND EDGE OF PAVEMENT OR LONGER AS REQUIRED BY LOCAL PERMITTING AGENCIES.
3. A MINIMUM OF 3 CASING SPACERS PER 20 LINEAR FEET OF INSTALLED CARRIER PIPE SHALL BE PROVIDED.

DEKALB COUNTY, GA. Department of Watershed Management | STANDARD DETAILS: Casing And Pipe Support Installation Detail | NOT TO SCALE | 11/07 | DETAIL NO. W-024

8 / 44-0015 CASING AND PIPE SUPPORT INSTALLATION
NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

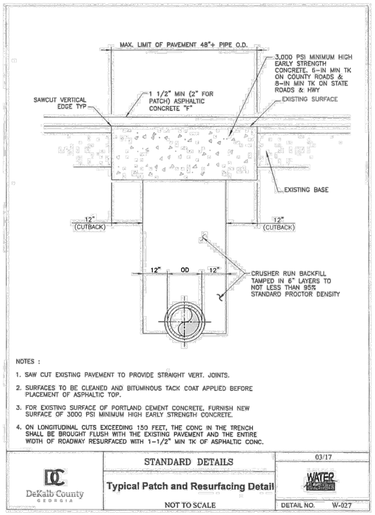
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

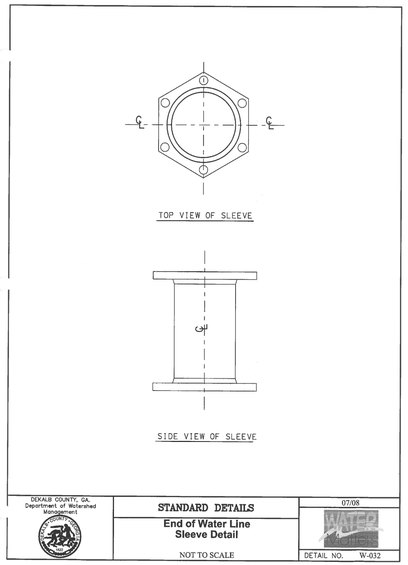
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0015
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

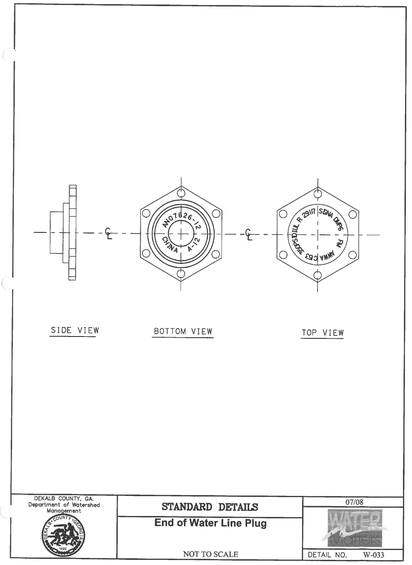
			P.I. No. 0008121/0012789



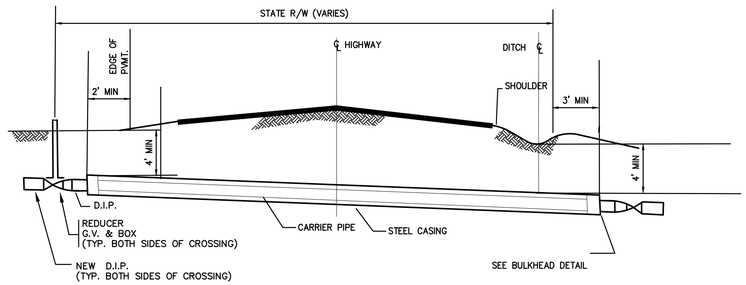
1 44-0016 TYPICAL PATCH AND RESURFACING
NOT TO SCALE



2 44-0016 SLEEVE
NOT TO SCALE



3 44-0016 PLUG
NOT TO SCALE

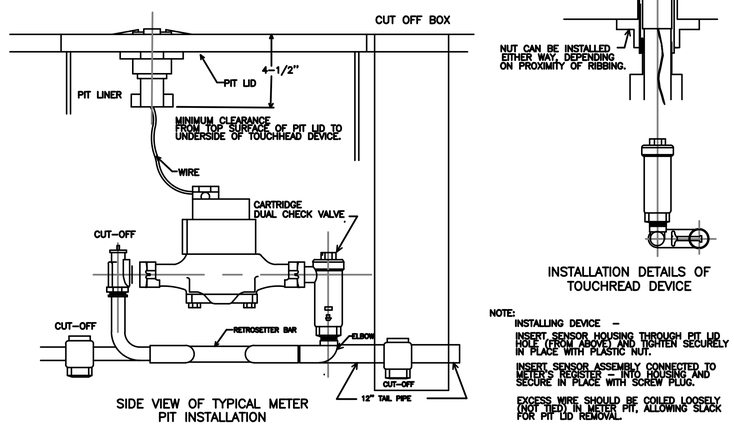


NOTES

1. ENCASED WATER PIPE TO HAVE MECHANICAL RESTRAINED JOINTS.
2. CASING PIPE & WATER PIPE TO HAVE BITUMINOUS EXTERIOR COATINGS.
3. SEE PLAN SHEETS FOR PIPE SIZES.

BORED CASINGS			
PIPE SIZE	PIPE O.D.	CASING SIZE	CASING I.D.
6"	6.90"	12"	11.376"
8"	9.05"	16"	14.314"
12"	13.20"	22"	19.732"
16"	17.40"	24"	21.564"
20"	21.60"	28"	27.0"
24"	25.80"	36"	35.0"

4 44-0016 JACK & BORE
NOT TO SCALE



NOTE:
INSTALLING DEVICE –
INSERT SENSOR HOUSING THROUGH PIT LID HOLE (FROM ABOVE) AND TIGHTEN SECURELY IN PLACE WITH PLASTIC NUT.

INSERT SENSOR ASSEMBLY CONNECTED TO METER'S REGISTER – INTO HOUSING AND SECURE IN PLACE WITH SCREW PLUG.

EXCESS WIRE SHOULD BE COILED LOOSELY (NOT TIED) IN METER PIT, ALLOWING SLACK FOR PIT LID REMOVAL.

5 44-0016 TOUCHREAD METER DETAIL
NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

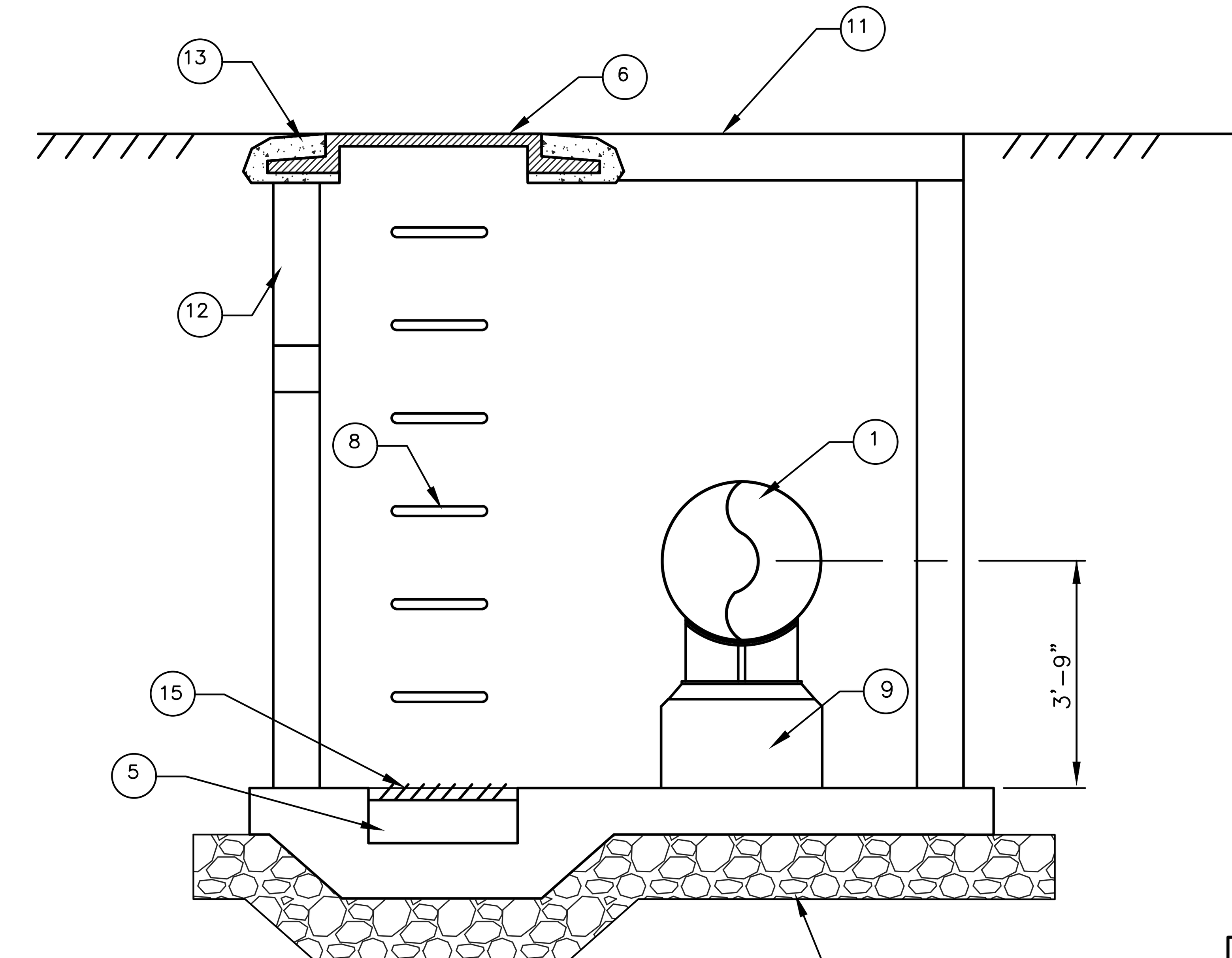
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

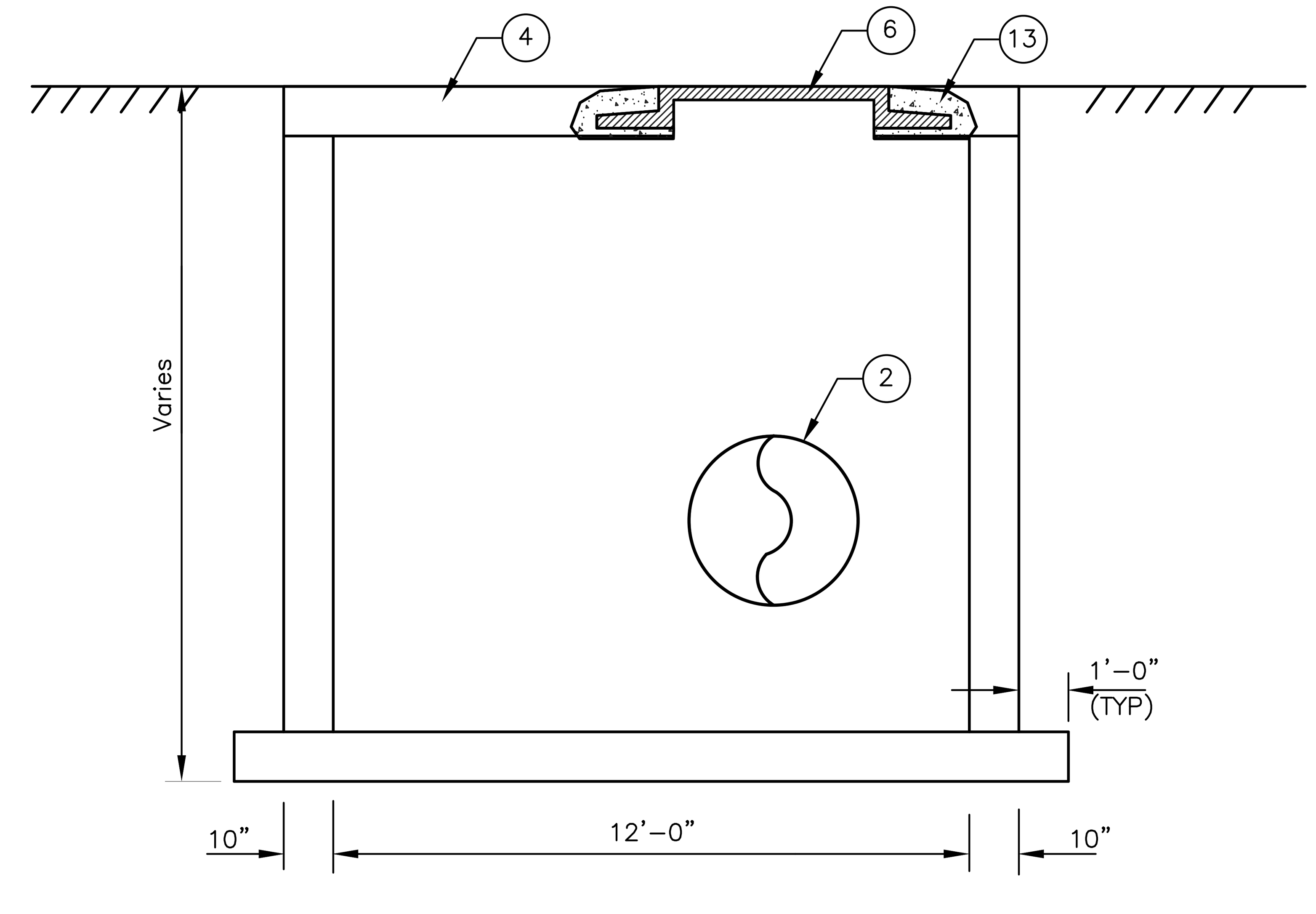
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0016
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

P.I. No. 0008121/0012789

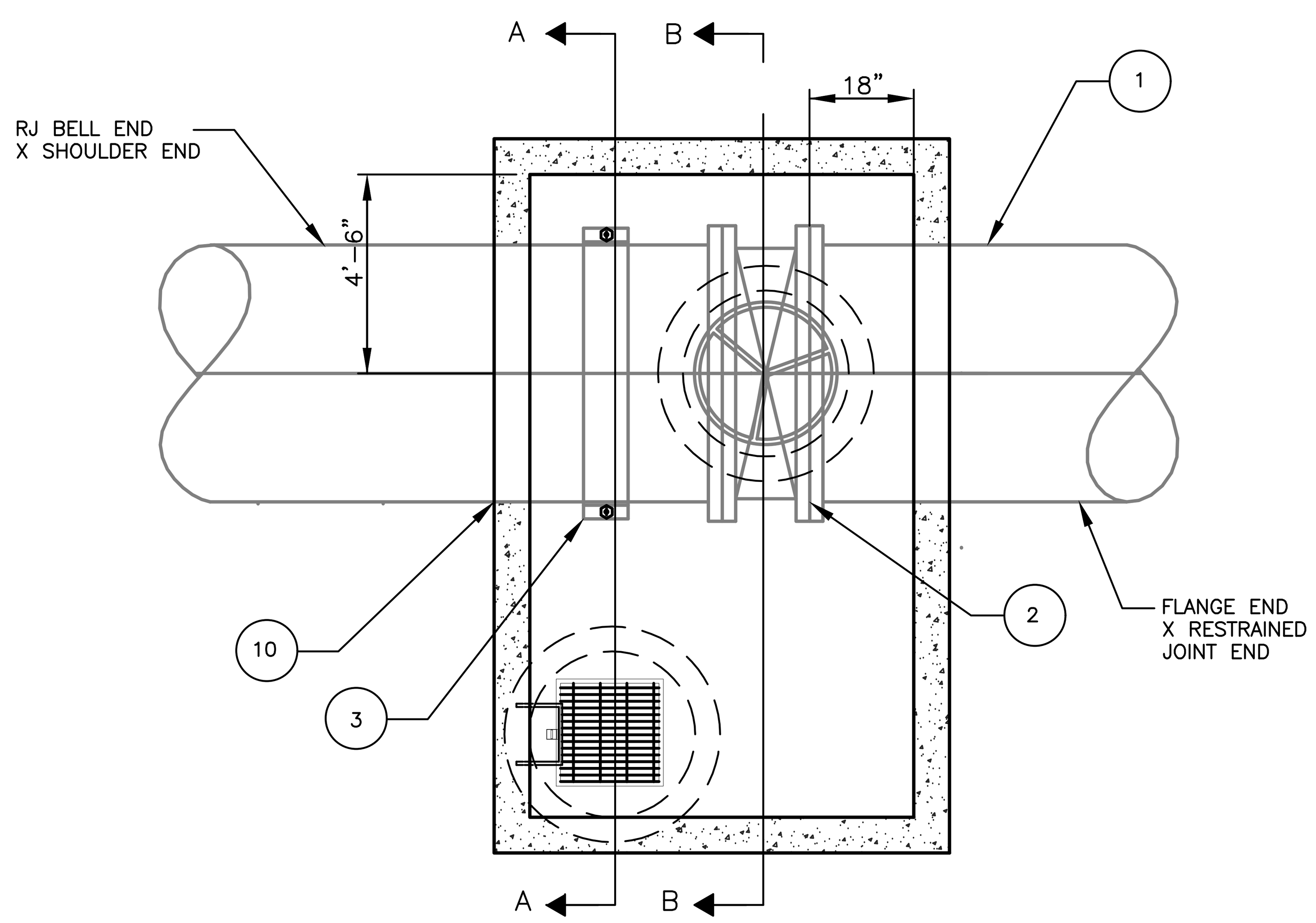


SECTION A-A
NTS

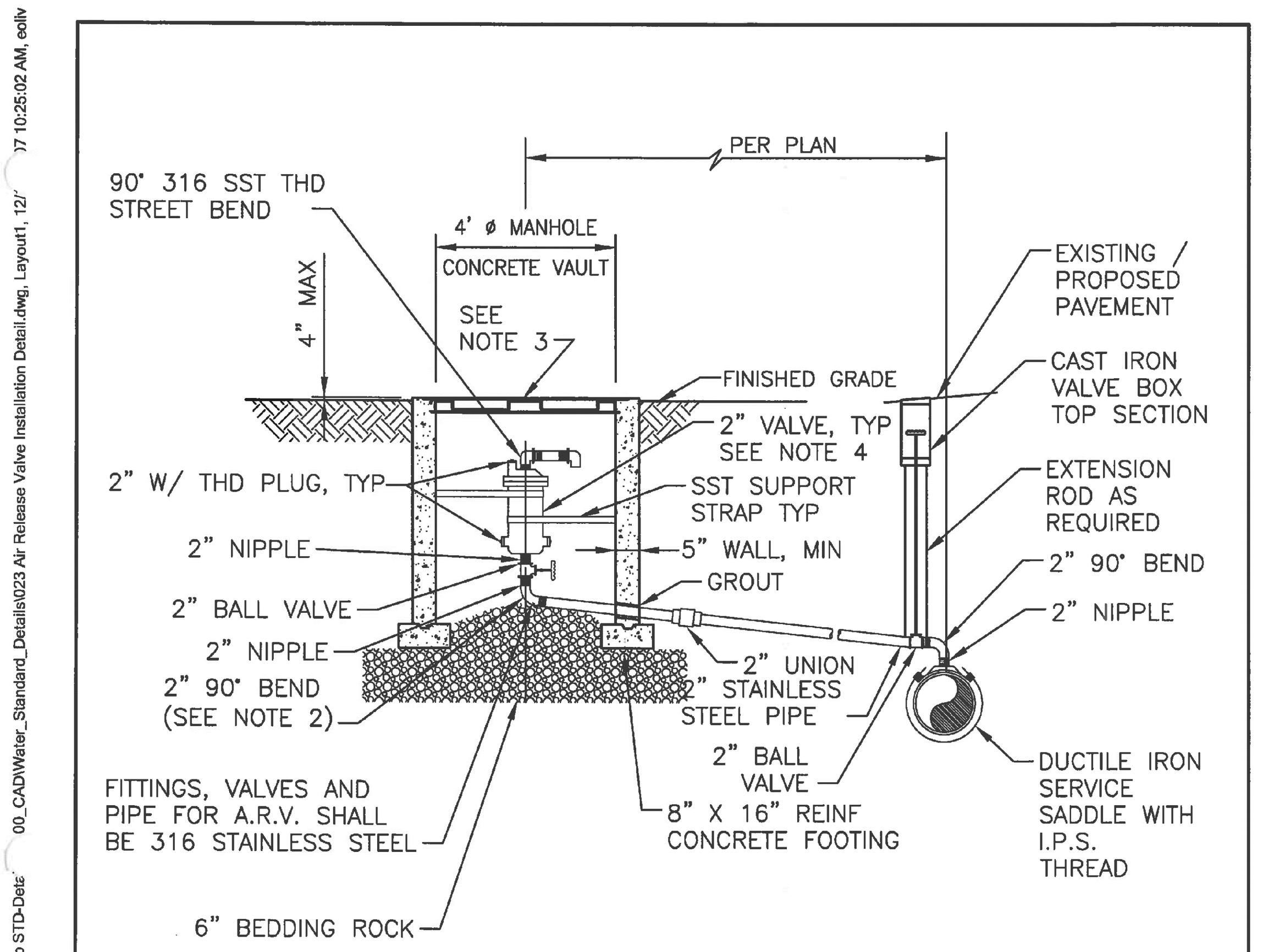


SECTION B-B
NTS

1. DIP WATER MAIN RJ & FL
2. GATE VALVE, FL/FL W/HORIZONTAL SEAT
3. VICTAULIC GROOVED COUPLING, STYLE 44
4. NOT USED
5. 2' SQ SUMP
6. C.I. MH FRAME & COVER SEE DEKALB COUNTY STD. DETAIL S-006
7. NOT USED
8. STEPS 16" O.C.
9. PIPE SUPPORT, SEE DETAIL AA, 1/C-409
10. WALL PENETRATION, SEE DETAIL 2/C-409
11. PRECAST TOP SLAB W/36" DIA OPENING
12. 36" DIA PRECAST MH RINGS
13. 8" THICK CONCRETE COLLAR
14. CAST IN LIFTING EYE
15. CAST IRON GRATE OVER SUMP



2 (44-0021) **VALVE VAULT**
NOT TO SCALE



NOTES:

1. ABOVE DETAIL IS BASED ON 2" AIR RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES SHALL BE DETERMINED BY THE DEVELOPER'S ENGINEER AND APPROVED BY DCDWM PRIOR TO INSTALLATION.
2. THE MINIMUM DIMENSION FROM INVERT TO FINISHED GRADE SHALL BE 4.0 FEET.
3. FRAME AND COVER SHALL BE EQUIVALENT TO U.S. FOUNDRY USF 170-E-ORS.
4. FOR POTABLE WATER AND REUSE WATER MAINS, VALVE SHALL BE APCO #200 (2") OR EQUIVALENT.

DEKALB COUNTY, GA. Department of Watershed Management	STANDARD DETAILS Air Release Valve Installation Detail NOT TO SCALE	11/07 DETAIL NO. W-023

2 (44-0021) **AIR RELEASE VALVE INSTALLATION DETAIL**
NOT TO SCALE

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS............BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.............ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB COUNTY GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES

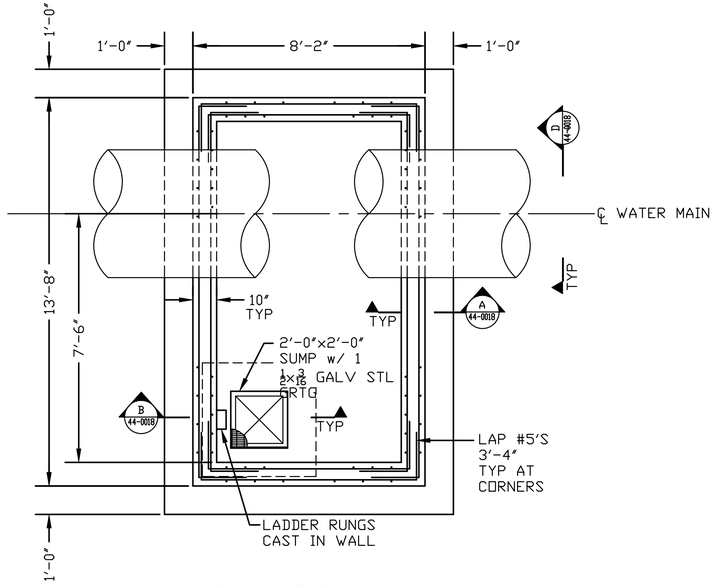
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

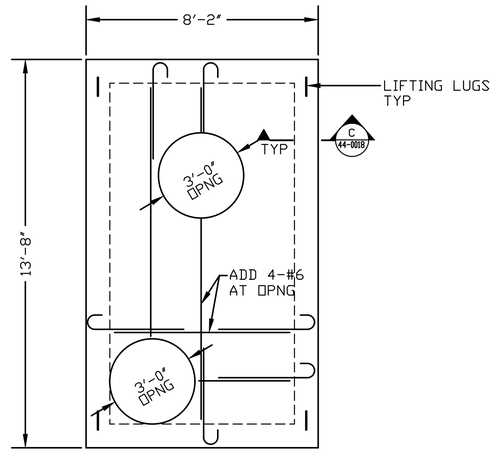
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	44-0017
CORRECTED:	DATE:	
VERIFIED:	DATE:	

8/28/2015 CONBDR

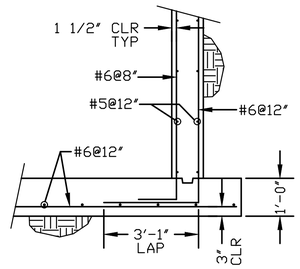
P.I. No.
0008121/0012789



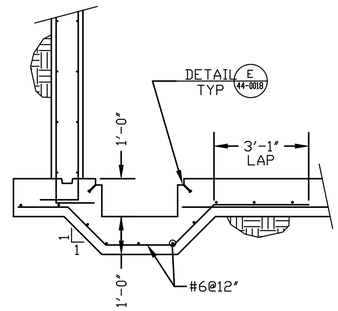
FOUNDATION PLAN
N.T.S.



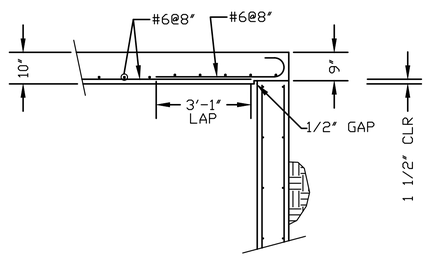
ROOF PLAN
N.T.S.



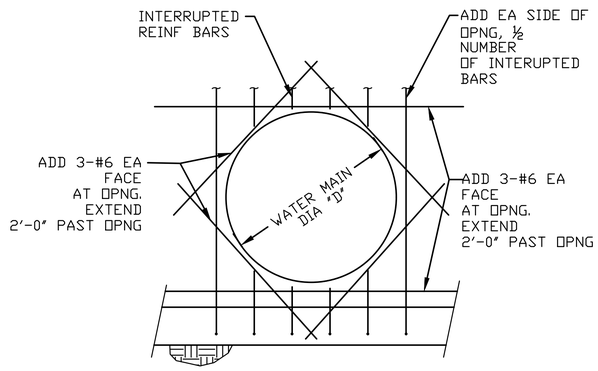
SECTION A
N.T.S.



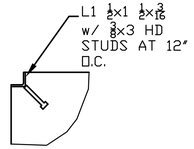
SECTION B
N.T.S.



SECTION C
N.T.S.



SECTION D
N.T.S.



SECTION E
N.T.S.

1 (44-0018) **GATE VALVE VAULT - PLAN AND SECTIONS**
NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA · 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

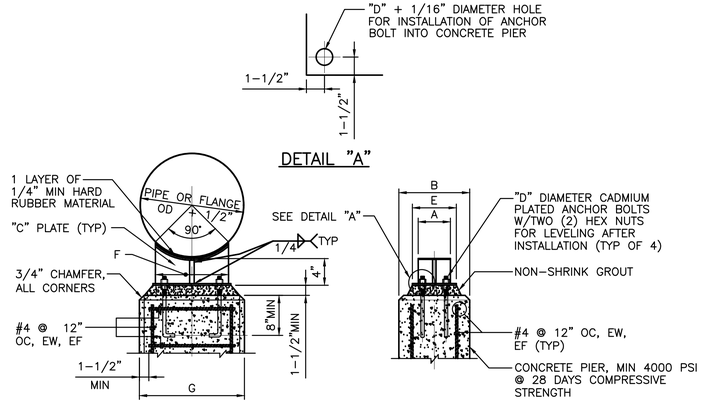
WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0018
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

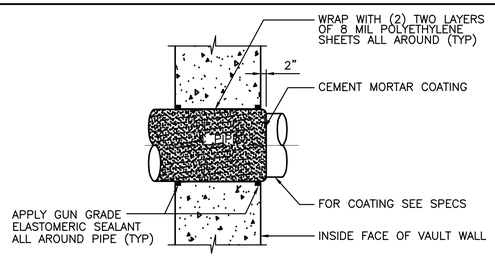
P.I. No.
0008121/0012789



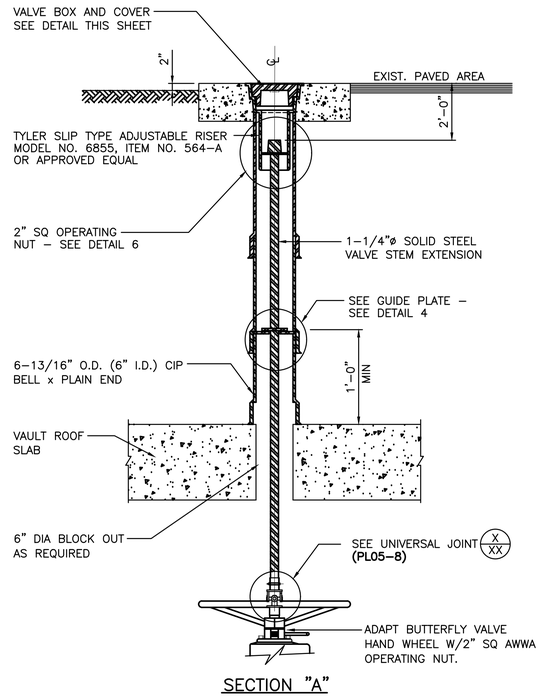
NOTE: GALVANIZE ASSEMBLY AFTER WELDING FABRICATION.

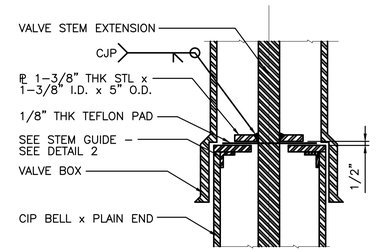
PIPE SUPPORT TABLE									
NOMINAL PIPE SIZE						SUPPORTING STL CYL PIPE		SUPPORTING FLANGE	
	A	B	C	D	E	F	G	F	G
12"	4"	12"	3/8"	5/8"	6"	10"	14"	14"	18"
16"	4"	12"	3/8"	5/8"	6"	12"	16"	17"	21"
18"	4"	12"	3/8"	5/8"	6"	14"	18"	18"	22"
20"	4"	12"	3/8"	5/8"	6"	16"	20"	20"	24"
24"	4"	12"	3/8"	5/8"	6"	19"	23"	23"	27"
30"	5"	12"	3/8"	3/4"	6"	23"	29"	28"	34"
36"	6"	15"	3/8"	3/4"	6"	27"	33"	33"	39"
42"	6"	18"	1/2"	1"	8"	32"	38"	38"	44"
48"	6"	18"	1/2"	1"	8"	36"	42"	42"	48"
54"	6"	18"	1/2"	1"	8"	40"	46"	47"	53"
60"	6"	18"	1/2"	1"	8"	44"	50"	52"	58"
66"	6"	18"	1/2"	1"	8"	48"	54"	57"	63"
72"	6"	18"	1/2"	1"	8"	52"	58"	62"	68"

1 44-0019 **PIPE SUPPORT DETAIL**
NOT TO SCALE

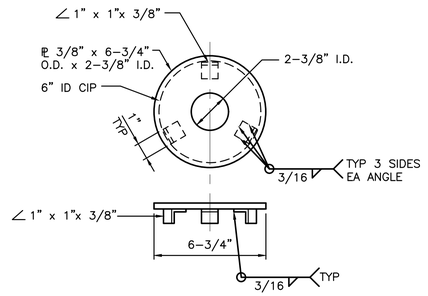


2 44-0019 **WALL PENETRATION DETAIL**
NOT TO SCALE

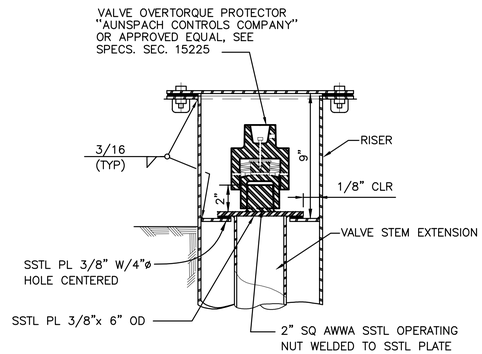




GUIDE PLATE - DETAIL 4



STEM GUIDE - DETAIL 2



OPERATING NUT - DETAIL 6

3 44-0019 **VALVE BOX ON VAULT**
NOT TO SCALE

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb PRIME ENGINEERING INCORPORATED

REVISION DATES		

WATERLINE RELOCATION PLANS

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		44-0019
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

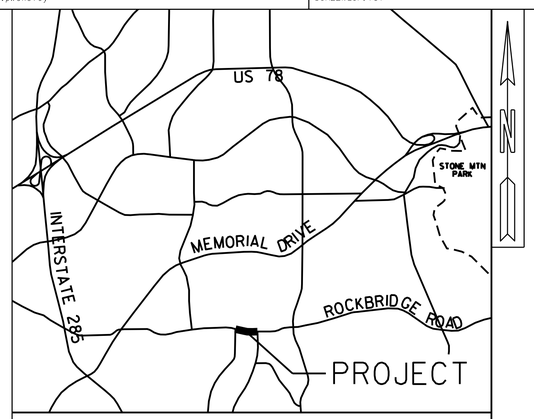
P.I. No. 0008121/0012789

DEKALB COUNTY PUBLIC WORKS

EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CSTEE-0008-00(121)
DEKALB COUNTY

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I. NO. 0008121/0012789



LOCATION SKETCH

BEGIN-POINT COORDINATES
Longitude: 84.2090°
Latitude: 33.7869°

MID-POINT COORDINATES
Longitude: 84.2061°
Latitude: 33.7862°

END-POINT COORDINATES
Longitude: 84.2033°
Latitude: 33.7863°

THIS DOCUMENT HAS BEEN PREPARED USING THE GEORGIA COORDINATE SYSTEM OF 1985 WEST ZONE (NAD 83/94) AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

THIS PROJECT IS 100% IN DEKALB COUNTY AND IS 100% IN CONGRESSIONAL DISTRICT NO. 4

PRIMARY PERMITTEE

DEKALB COUNTY PUBLIC WORKS -
TRANSPORTATION DIVISION
1950 West Exchange Place
Tucker, GA 30084
(770) 492-5200

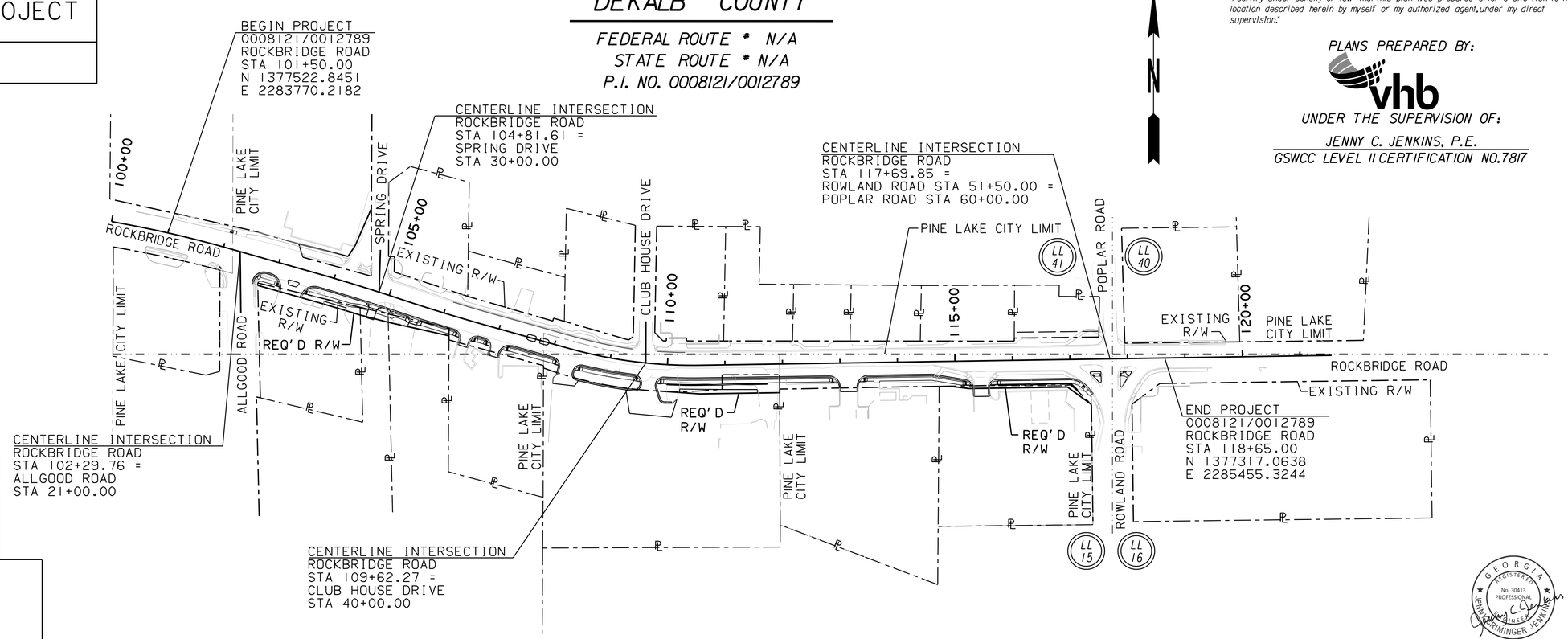
24 HOUR CONTACT:

Name

Phone Number

Email Address

Contractor shall complete the information in this box.



SCALE IN FEET
0 100 200 400

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR100002."

"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. GAR100002."

"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. GAR100002, 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."

PLANS PREPARED BY:
vhb
UNDER THE SUPERVISION OF:
JENNY C. JENKINS, P.E.
GSWCC LEVEL II CERTIFICATION NO. 7817

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNY CRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PLANS COMPLETED 07-10-18

REVISIONS

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

DRAWING No. 50-0001

REVISED JANUARY 2017

ESPCP GENERAL NOTES

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

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.

PLAN 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 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMP's may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching 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.

For Disturbed Area Stabilization (with Temporary Seeding) or Disturbed Area Stabilization (with Permanent Vegetation), do not use any species or cultivars of species that are on the GDOT list of Non-native Invasive Plants (6755-9, Table 5.1), or the Georgia Exotic Pest Plant Council's Non-native Invasive list in Category 1, 2, or 3. Category 4 plants should be avoided if possible.

For permanent grassing/erosion control in stream buffer areas, use Riparian Seed Mix from GDOT Specification Section 700 - Grassing. (Per GDOT Spec 700, no lime or fertilizer should be applied in stream buffer areas, and only wheat straw shall be used as mulch.) For all other permanent grassing/erosion control, use Native Grass Seeding Table 3 and/or Herbaceous Plant Seeding Table 4 from GDOT Specification Section 700 - Grassing where possible.

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 facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

INITIAL PHASE BMPs - Install the following BMPs prior to construction:
1. Perimeter control silt fence
2. Construction exits
3. Install inlet sediment traps where specified.
4. Apply temporary grassing and much as necessary to disturbed areas.

INTERMEDIATE PHASE BMPs
1. Install additional silt fence.
2. Install check dams.
3. Install inlet sediment traps where specified.
4. Install slope stabilization where specified in the plans.
5. Mulch and plant temporary grass as required.

FINAL PHASE BMPS - As soon as final grade has been established in any area of the project, install the following:
1. Slope stabilization
2. Permanent grassing/Sod

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 GAR100002 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.

SOIL SERIES INFORMATION

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

Soil Type	Map Unit Name	Percent of AOI
CuC	Cecil-Urban land complex,2 to 10 percent slopes	33.0%
PuE	Pacolet-Urban land complex,10 to 25 percent slopes	36.9%
Ud	Urban land	30.1%

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm.

POSTCONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

All permanent postconstruction BMP's are shown in the construction plans and in the ESPCP plan. The postconstruction BMP's for this project consist of vegetation, riprap at pipe outlets for velocity dissipation and outlet stabilization, and vegetated swales/ditches where practical. The postconstruction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATION 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. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABLIZATION AND BMP MAINTENANCE MEASURES

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

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.

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.

INSPECTIONS

The primary permittee 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 seven (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 GAR100002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project within seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the County's Construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

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

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.

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 GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

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 systems, 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.

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 GAR100002.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB COUNTY GEORGIA 1822

vhb

REVISION DATES

ESPCP GENERAL NOTES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

		DATE:		DRAWING No.
CHECKED:		DATE:		51-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

SEDIMENT STORAGE

The site has a total disturbed area of 1.17 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 (yd³)	Total Storage Volume Provided (yd³)	Sediment Basins		Check Dam (yd³/each)		Inlet Sediment Traps (yd³/each)		Silt Gates (yd³/each)		Silt Fence (0.3 yd³/ft)	
					Basin #	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	# of Devices	Total Volume (yd³)	Length of Fence (ft)	Total Volume (yd³)
Outfall 1	2.14	1.17	143.38	97.0	-	-	0	0	16	20.8	0	0	254.0	76.2

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.

OUTFALL 1:
The area drained is 2.14 acres; however, the disturbed area within this drainage basin is 1.17 acres. The disturbance activities consist of roadway reconstruction and widening, new curb and gutter, new sidewalk, and some walls. The BMPs shown on the erosion control plans provide 97.0 CY of the 143.38 CY required for sediment storage within this basin. The outfall for this basin is an existing pipe. Due to the constricted location of the outfall, a sediment basin is NOT recommended. BMPs have been shown on the plans to the fullest extent possible. The contractor shall strictly adhere to the BMP maintenance requirements and shall establish vegetation on disturbed areas as soon as possible.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

Fabric check dams will be used on this project as an alternate BMP. The use of the alternate 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 ESCP. This review was site specific and based on documentation submitted and certified by the Level II Certified Design Professional and was required by the Georgia EPD and GSWCC.

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

The following is a summary of project outfalls within 1 mile and within the watershed of an identified 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).

Outfall ID # and Location (Station and Offset)	Reach Name	Location of the Impaired Stream Segment as Indicated in the 305b/303d List	Criteria Violated (Bio F or Bio M)	Potential Cause (NP or UR)	Category (4a, 4b, or 5)	Numeric waste load allocation for sediment*
Outfall 1 Station 116+83.50 38.17' RT	Snapfinger Creek	Headwaters to South River	Bio F, Bio M	UR	4a, 5	0

1. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than 7 calendar days in accordance with Part III.D.1 of the NPDES Permit.

2. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less.

3. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1.

4. Install sod for a minimum of 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.

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".

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 wrested 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.

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 3.28 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 (mi²)	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	116+83.50, 38.17' RT	Snapfinger Creek	All	Outfall	0.003	0.002	Warm	75	N/A	End of Pipe	N/A	N/A	N/A	N/A	N/A

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

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

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER HIMINGER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

REVISION DATES

ESPCP GENERAL NOTES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS
SWCD: DeKalb County SWCD

Project Name: Rockbridge Rd from Allgood Rd to Rowland Rd **Address:** 4567 Rockbridge Rd SW, Pine Lake, GA 30072
City/County: DeKalb County, GA **Date on Plans:**_____

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0003	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permited.
50-0001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional.
50-0001	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-0001	Y	4 Provide the name, address and phone number of primary permittee.
53-0001	Y	5 Note total and disturbed acreage of the project or phase under construction.
50-0001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0001	Y	8 Description of the nature of construction activity.
50-0001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
55-0001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
50-0001	Y	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
50-0001	Y	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
51-0001	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation."*
51-0002	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested 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."
N/A	N	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0001	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
51-0001	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
51-0001	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0001	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0001	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0004	Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment."
51-0004	Y	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
51-0002	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
51-0001	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
51-0001	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
51-0001	Y	27 Description of the practices that will be used to reduce the pollutants in storm water discharges.*
51-0001	Y	28 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	29 Provide complete requirements of inspections and record keeping by the primary permittee.*
51-0002	Y	30 Provide complete requirements of sampling frequency and reporting of sampling results.*
51-0001	Y	31 Provide complete details for retention of records as per Part IV.F. of the permit.*
51-0002	Y	32 Description of analytical methods to be used to collect and analyze the samples from each location.*
51-0002	Y	33 Appendix B rationale for NTU values at all outfall sampling points where applicable.*
55-0001	Y	34 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*
51-0001	Y	35 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
54 SERIES	Y	36 Graphic scale and North arrow.
54 SERIES	Y	37 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
51-0002	Y	38 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
51-0002	Y	39 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
54 SERIES	Y	40 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
54 SERIES	Y	41 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-0001	Y	42 Delineation and acreage of contributing drainage basins on the project site.
55-0001	Y	43 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
53-0001	Y	44 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
53-0001	Y	45 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0001	Y	46 Soil series for the project site and their delineation.
54 SERIES	Y	47 The limits of disturbance for each phase of construction.
51-0002	Y	48 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasable, a written justification explaining this decision must be included in the plan.
54 SERIES	Y	49 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
56 SERIES	Y	50 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0001	Y	51 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

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

Effective January 1, 2017

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB COUNTY GEORGIA 1822

vhb

REVISION DATES

ESPCP GENERAL NOTES

ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N	
N/A	N	a. During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
N/A	N	b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
N/A	N	c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
N/A	N	d. A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted.
51-0004	Y	e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the NPDES Permit.
N/A	N	f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permits.
N/A	N	g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
N/A	N	h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the plan.
53-0001	Y	i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the plan.
N/A	N	j. Use "Dirt II" techniques available on the EPD website, www.gaepd.org (e.g., seep berms, sand filters, anionic PAM) to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
N/A	N	k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
N/A	N	l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
52-0002	Y	m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan.
N/A	N	n. Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
N/A	N	o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
52-0001	Y	p. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
N/A	N	q. Conduct soil tests to identify and to implement site-specific fertilizer needs.
N/A	N	r. Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a) – (c); secondary permittees, Part IV.D.4.b.(3). (a) – (c); and tertiary permittees Part IV.D.4.c.(3).(a) – (c). *
N/A	N	s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
N/A	N	t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by aDesign Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)
N/A	N	u. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the plan.

Effective January 1, 2017

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNY CRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB COUNTY GEORGIA 1822

vhb

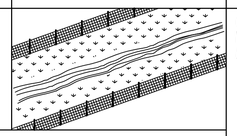
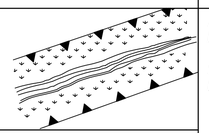
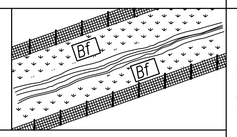
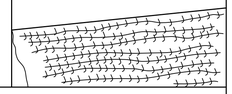
REVISION DATES		

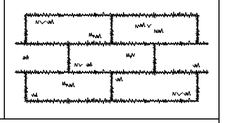
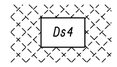
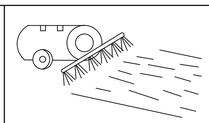
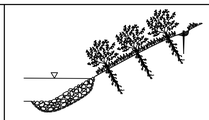
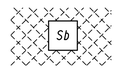
ESPCP GENERAL NOTES

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

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	 ORANGE BARRIER FENCE	
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. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds1	
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	
Fl-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	Fl-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:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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
3/2/2017

EROSION CONTROL LEGEND

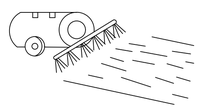
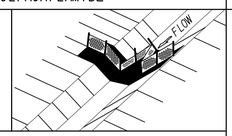
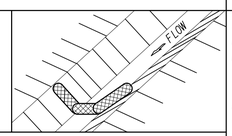
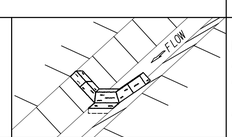
UNIFORM CODE SHEET

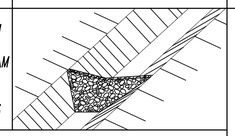
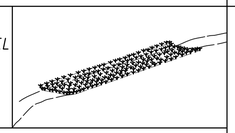
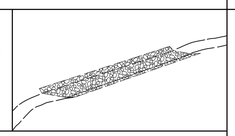
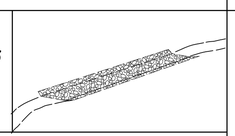
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0001

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN Ss		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.
Tac	TACKIFIERS SECTION 163, 700, 895 SYMBOL Tac POLYACRYLAMIDE		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.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 SYMBOL Cd-F		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.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Fs		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.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Hb		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 SPLASH PAD. 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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603 SYMBOL Cd-S		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.
Ch-I	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE Ch-I		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.
Ch-2RI	CHANNEL STABILIZATION RIP-RAP, TYPE I CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2RI		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE I 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.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R3		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.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

GDOT

NO SCALE

REVISION DATES
3/2/2017

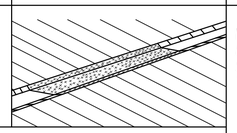
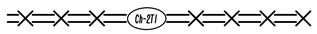
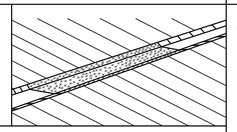
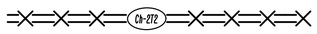
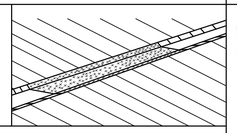
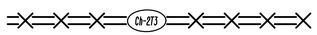
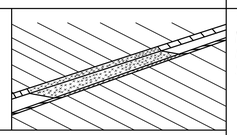
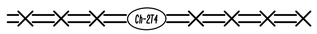
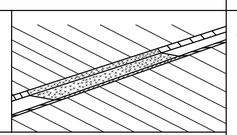
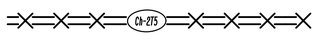
EROSION CONTROL LEGEND

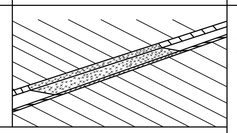
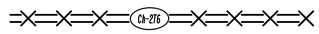
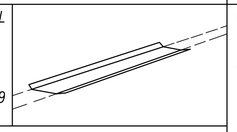
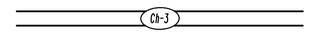
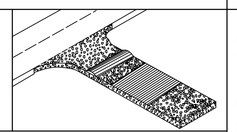
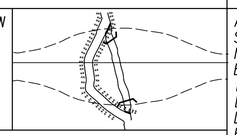
UNIFORM CODE SHEET

SHEET 2 OF 7

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	 LINE CODE 	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.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441	 LINE CODE 	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.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800	 SYMBOL 	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.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163	 LINE CODE 	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 Sdl-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.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

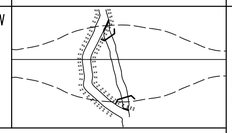
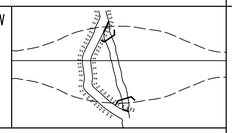
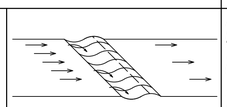
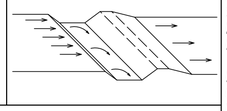
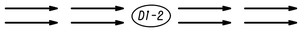
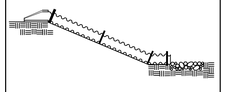
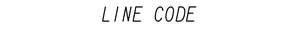
UNIFORM CODE SHEET

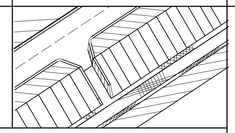
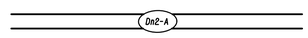
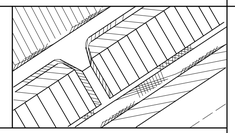
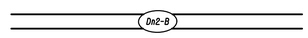
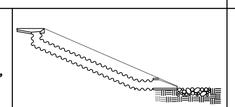
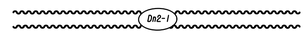
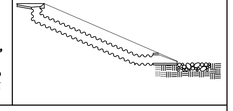
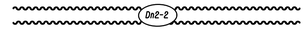
SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0003

7/31/2015 GPLN

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		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

GDOT

NO SCALE

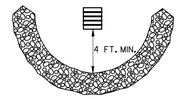
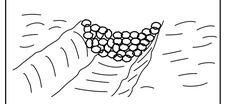
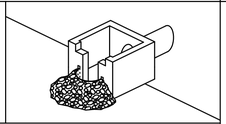
REVISION DATES
3/2/2017

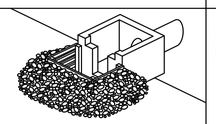
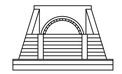
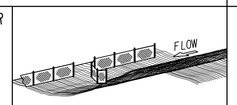
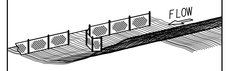
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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: Fr	
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	
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: Rd-B	
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: Rp	
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: Rt-P	

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-B	
Rt-Sg1 Rt-Sg2 Rt-Sg3	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: Rt-Sg1 Rt-Sg2 Rt-Sg3	
Sdl-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: A Sdl-NS A	
Sdl-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: C Sdl-S C	

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

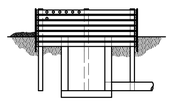
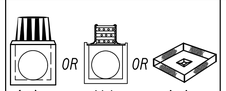
UNIFORM CODE SHEET

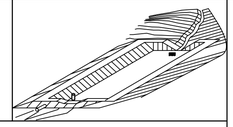
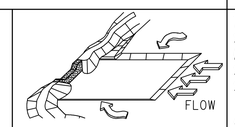
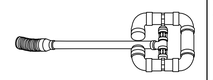
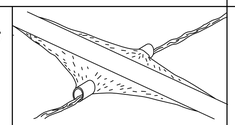
SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0005

7/31/2015 GPLN

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-42 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:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

7/31/2015 GPLN

GDOT

NO SCALE

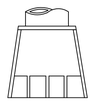
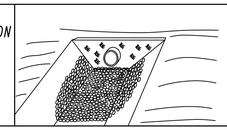
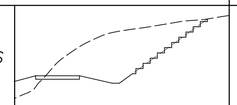
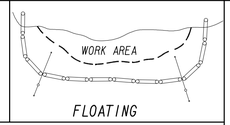
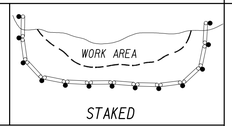
REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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		
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 </= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </= 0.7 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 FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL		
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 Su		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING	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-F		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED	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 Tc-S		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 7 OF 7

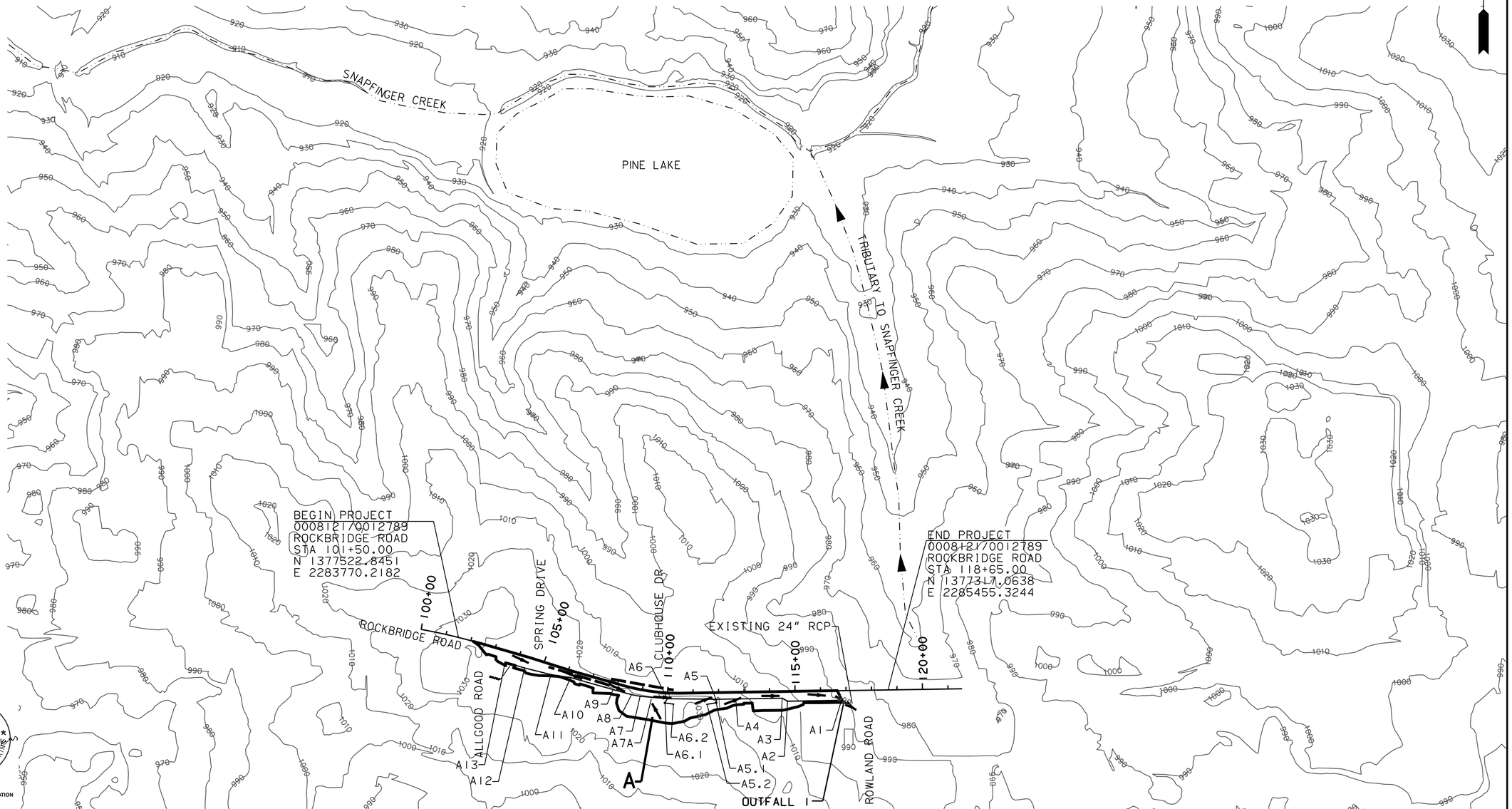
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0007

7/31/2015 GPLN

OUTFALL DESIGNATION	STATION	OFFSET	DESCRIPTION	RUNOFF COEFFICIENT PRE	RUNOFF COEFFICIENT POST	PRE Q(50) (CFS)	PRE Q(100) (CFS)	POST Q(50) (CFS)	POST Q(100) (CFS)	PRE HW(50) (FT)	PRE HW(100) (FT)	POST HW(50) (FT)	POST HW(100) (FT)	PRE V(50) (FPS)	PRE V(100) (FPS)	POST V(50) (FPS)	POST V(100) (FPS)	DRAINAGE AREA (AC)	DISTURBED AREA (AC)	OUTFALL CHANNEL SLOPE (%)	RECEIVING WATERS
1	116+83.5	38.17' RT	EX 24" RCP	0.75	0.81	9.32	10.15	13.32	14.52	0.68	0.71	0.82	0.86	9.99	10.23	11.01	11.27	2.12	1.17	2.81%	TRIB TO SNAPFINGER CREEK

TOTAL PROJECT SIZE = 3.28 AC
TOTAL DISTURBED AREA = 1.17 AC



GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER PRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 200 400 800

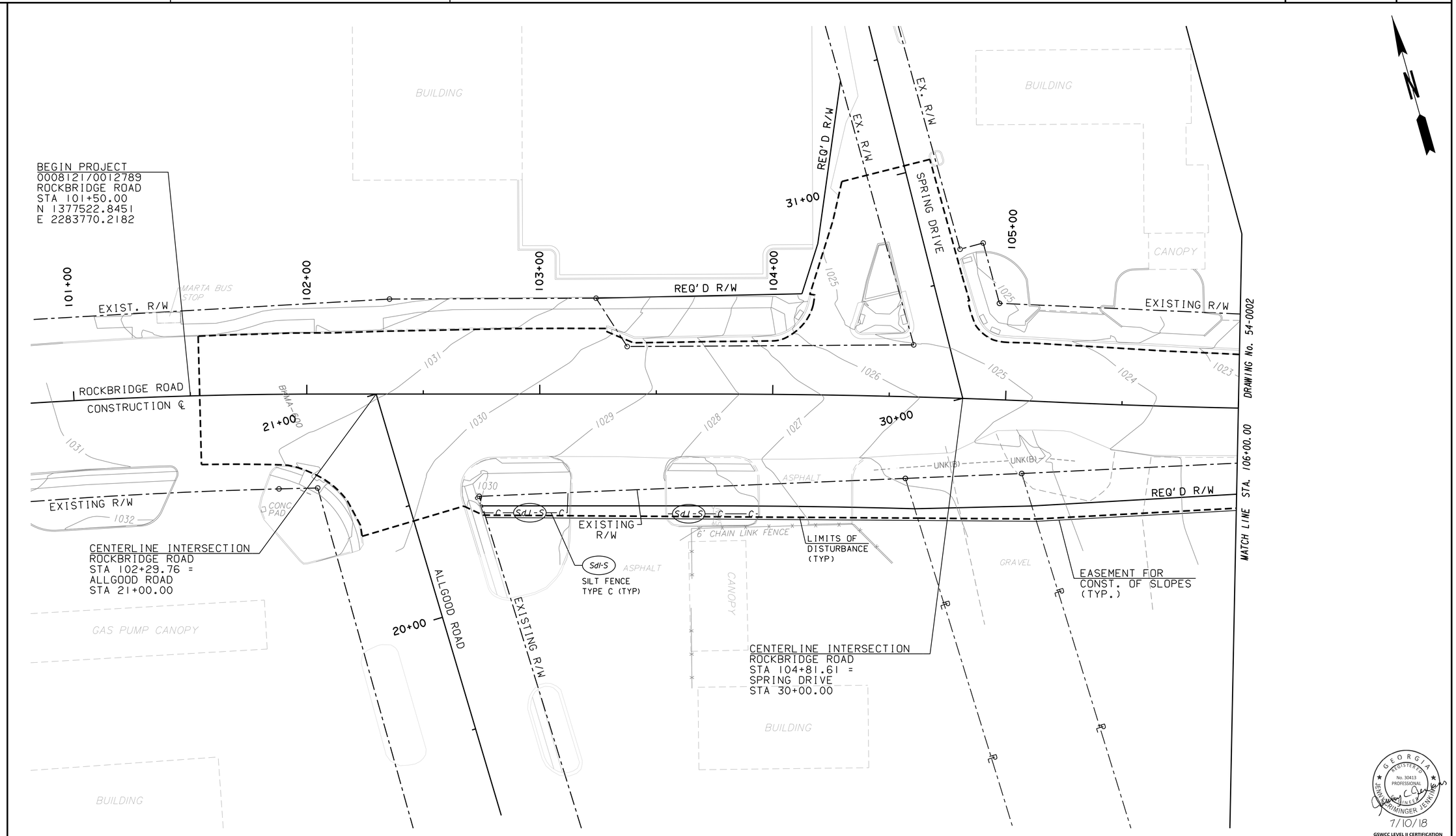
REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		53-0001
VERIFIED:		DATE:		

8/28/2015 CONBDR



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

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

DEKALB · COUNTY · GEORGIA · 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

BMP LOCATION DETAILS
INITIAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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8/28/2015 CONBDR

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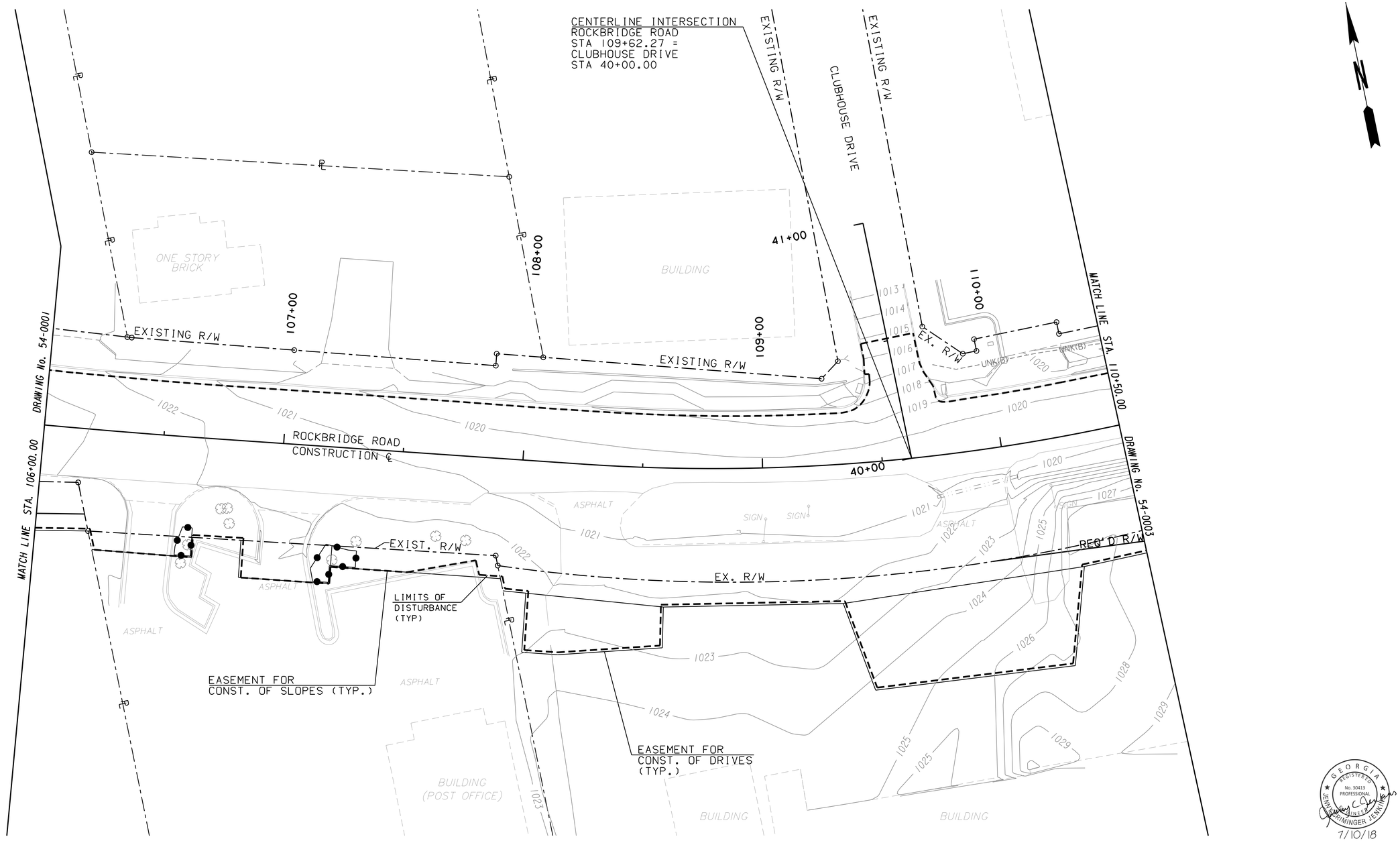

8/28/2015 CONBDR

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

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

SCALE IN FEET
0 20 40 80

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER KRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

REVISION DATES

BMP LOCATION DETAILS INITIAL PHASE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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VERIFIED:		DATE:		

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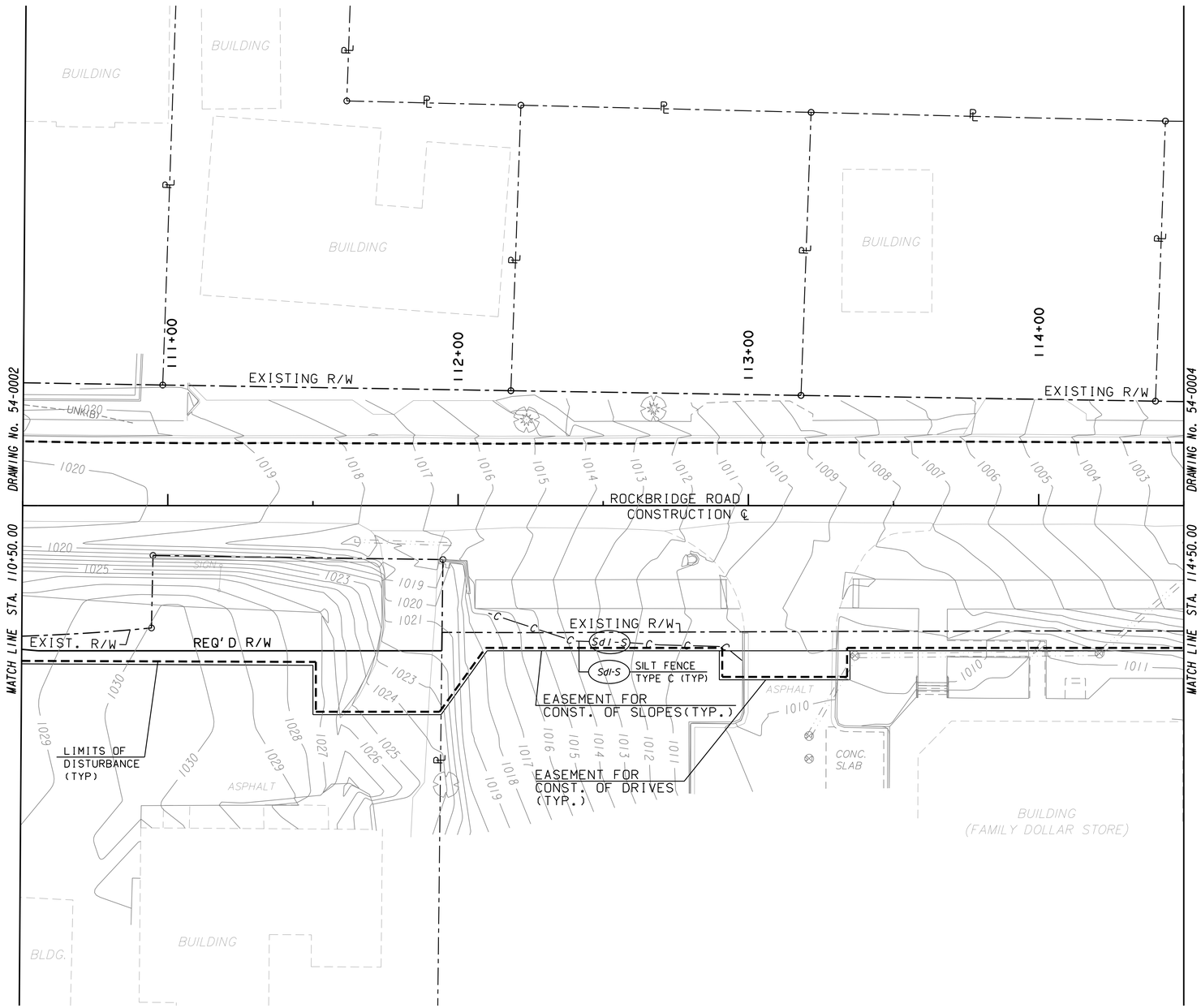

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER
JENNIFER ZIMMINGER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES		

BMP LOCATION DETAILS
INITIAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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8/28/2015 CONBDR

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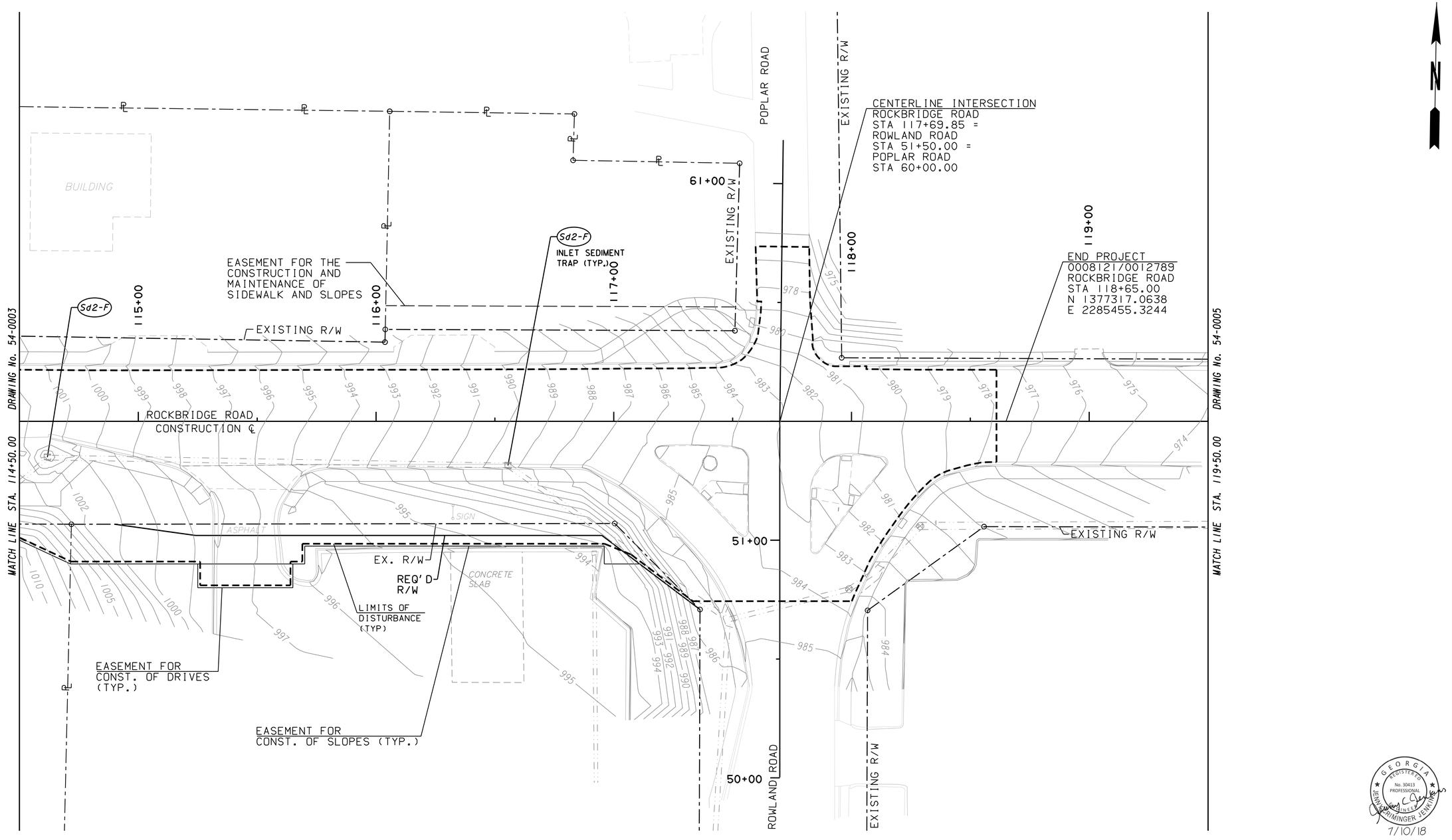


PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

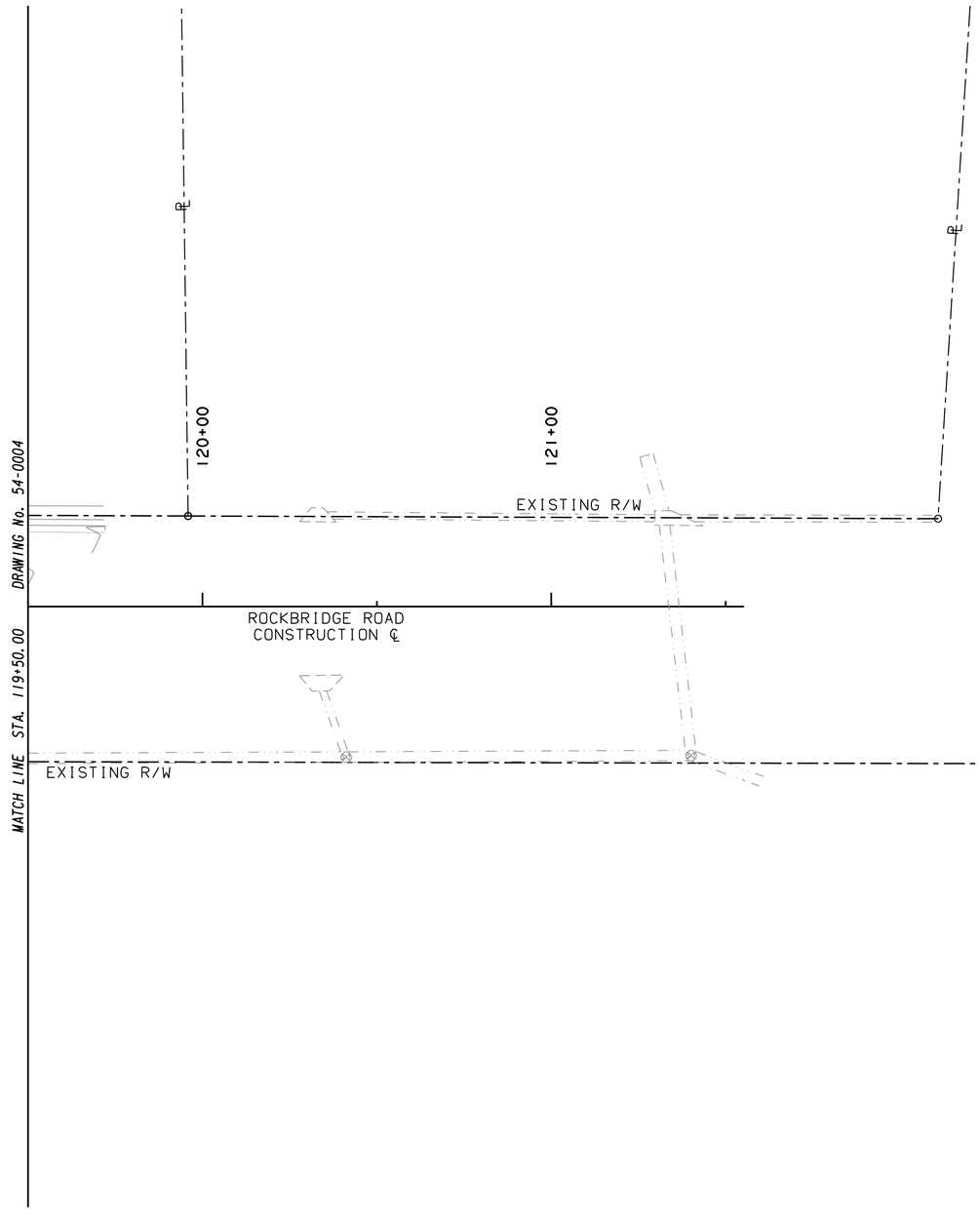
GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER MINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

REVISION DATES		

BMP LOCATION DETAILS
INITIAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0004
VERIFIED:		DATE:		

8/28/2015 CONBDR



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THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER WIMINGER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE —— ℄ ——
REQUIRED R/W LINE ——————
CONSTRUCTION LIMITS —— C —— F ——
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

DEKALB · COUNTY · GEORGIA 1822

vhb

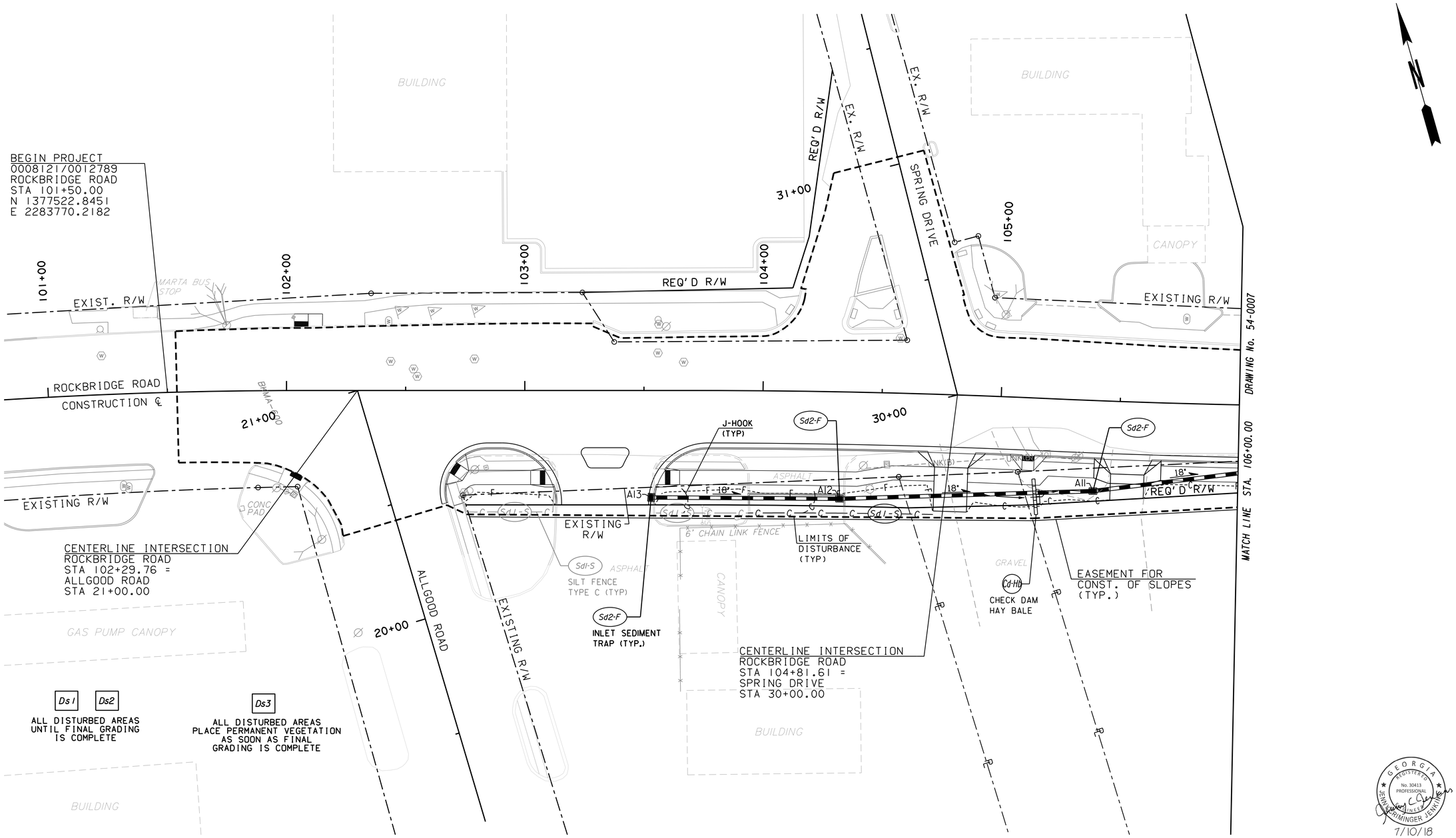
SCALE IN FEET
0 20 40 80

REVISION DATES		

BMP LOCATION DETAILS INITIAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0005
CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR



GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENKINS/BRININGER/JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS INTERMEDIATE PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
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CORRECTED:		DATE:		
VERIFIED:		DATE:		

8/28/2015 CONBDR

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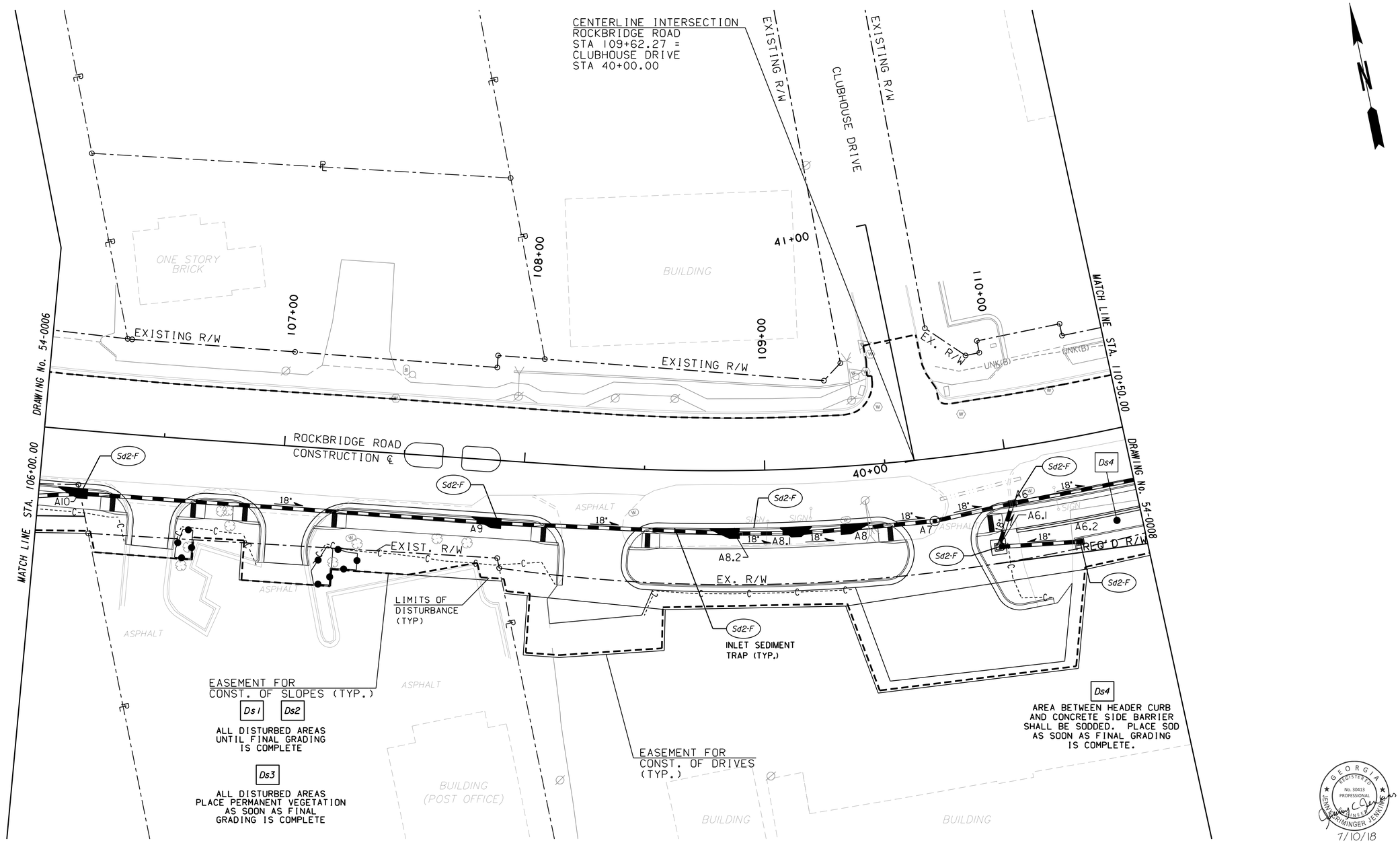


GEORGIA REGISTERED No. 30413 PROFESSIONAL JENNIFER PRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

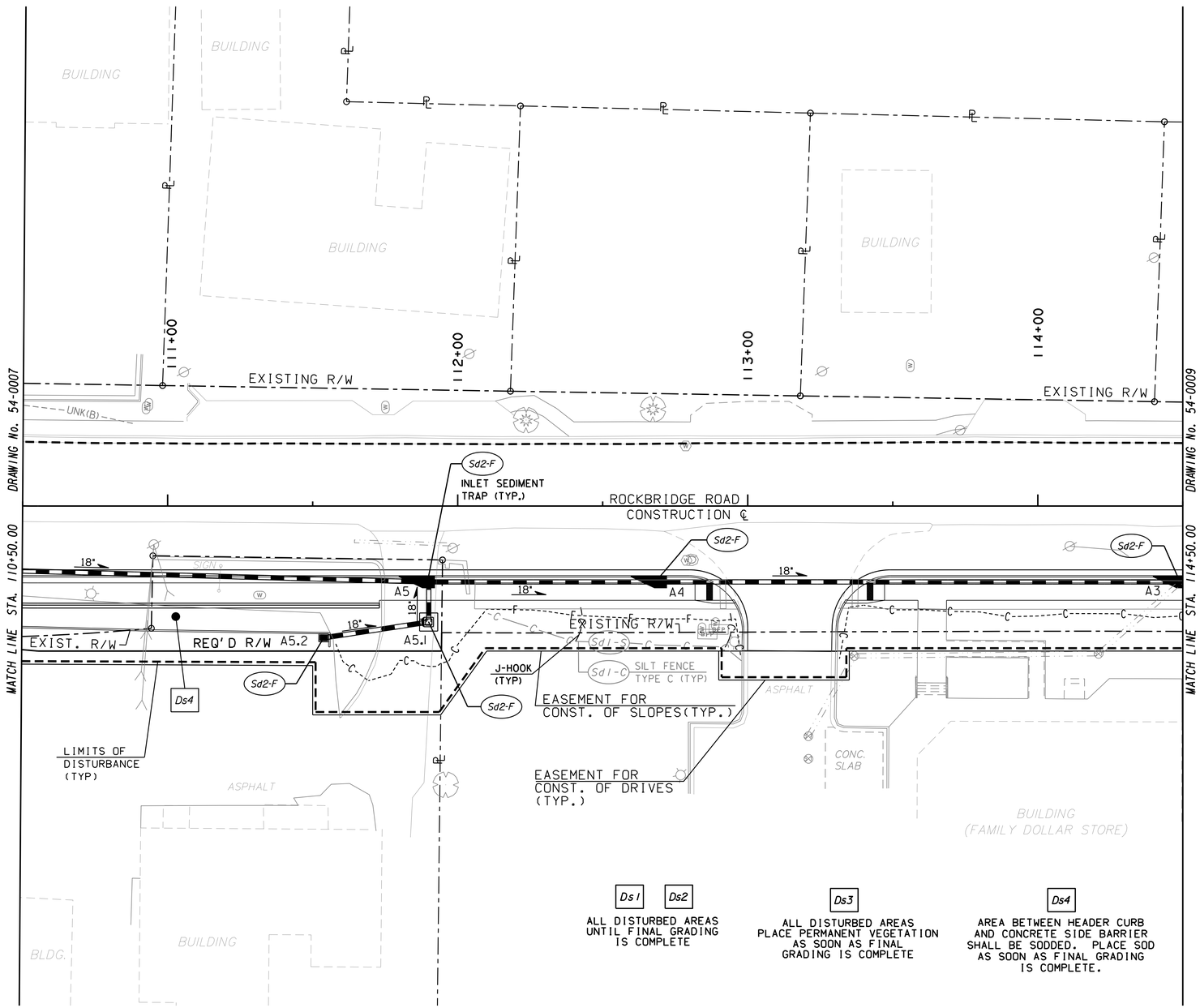
REVISION DATES		

BMP LOCATION DETAILS INTERMEDIATE PHASE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0007
VERIFIED:		DATE:		

8/28/2015 CONBDR



Ds1 **Ds2**
ALL DISTURBED AREAS UNTIL FINAL GRADING IS COMPLETE

Ds3
ALL DISTURBED AREAS PLACE PERMANENT VEGETATION AS SOON AS FINAL GRADING IS COMPLETE

Ds4
AREA BETWEEN HEADER CURB AND CONCRETE SIDE BARRIER SHALL BE SODDED. PLACE SOD AS SOON AS FINAL GRADING IS COMPLETE.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER ZIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

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

DEKALB COUNTY GEORGIA 1822

vhb
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0 20 40 80

REVISION DATES

BMP LOCATION DETAILS INTERMEDIATE PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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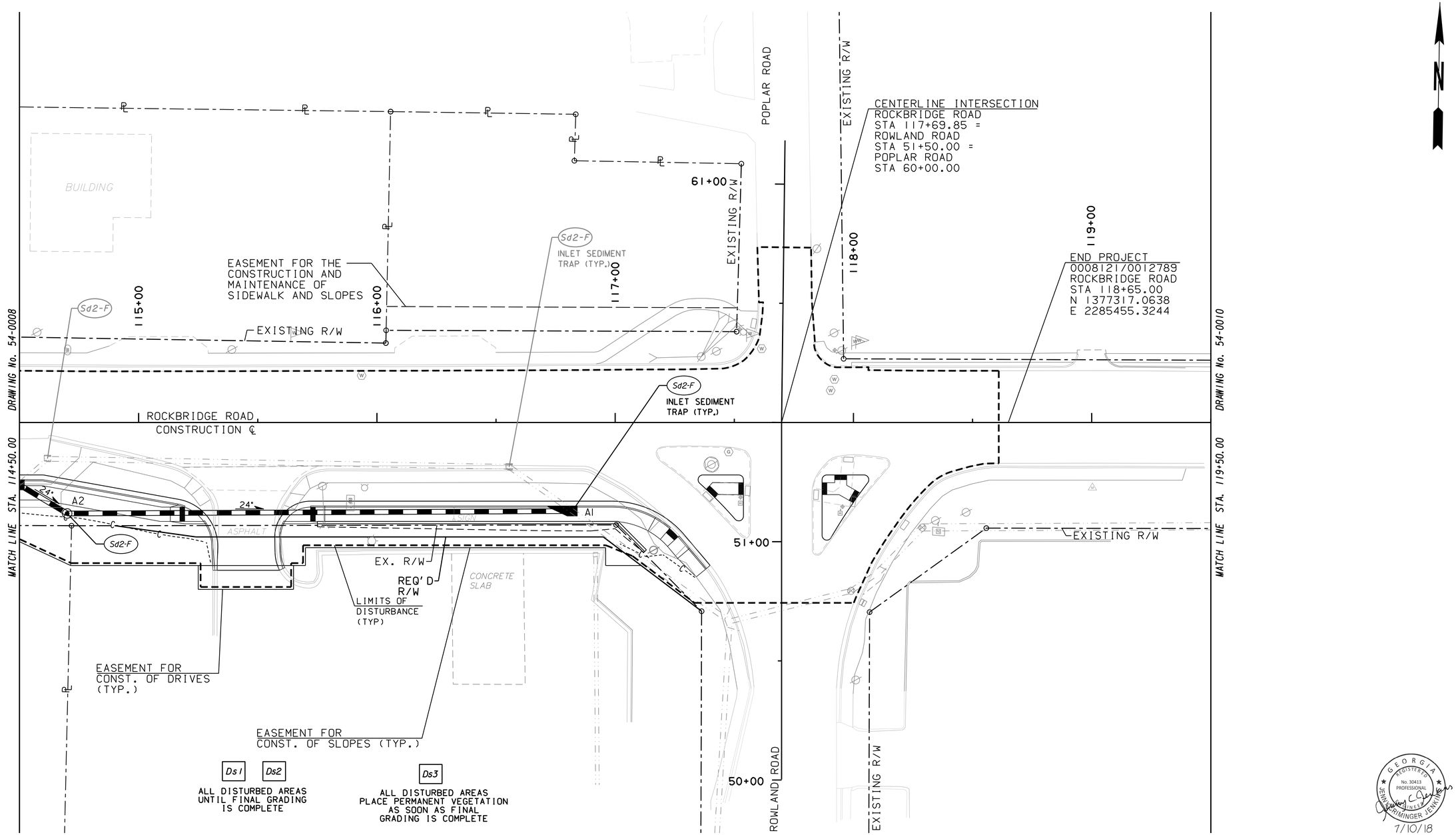
8/28/2015 CONBDR



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DEKALB COUNTY, GEORGIA 1822

vhb

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GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER GRIMINGER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

REVISION DATES

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ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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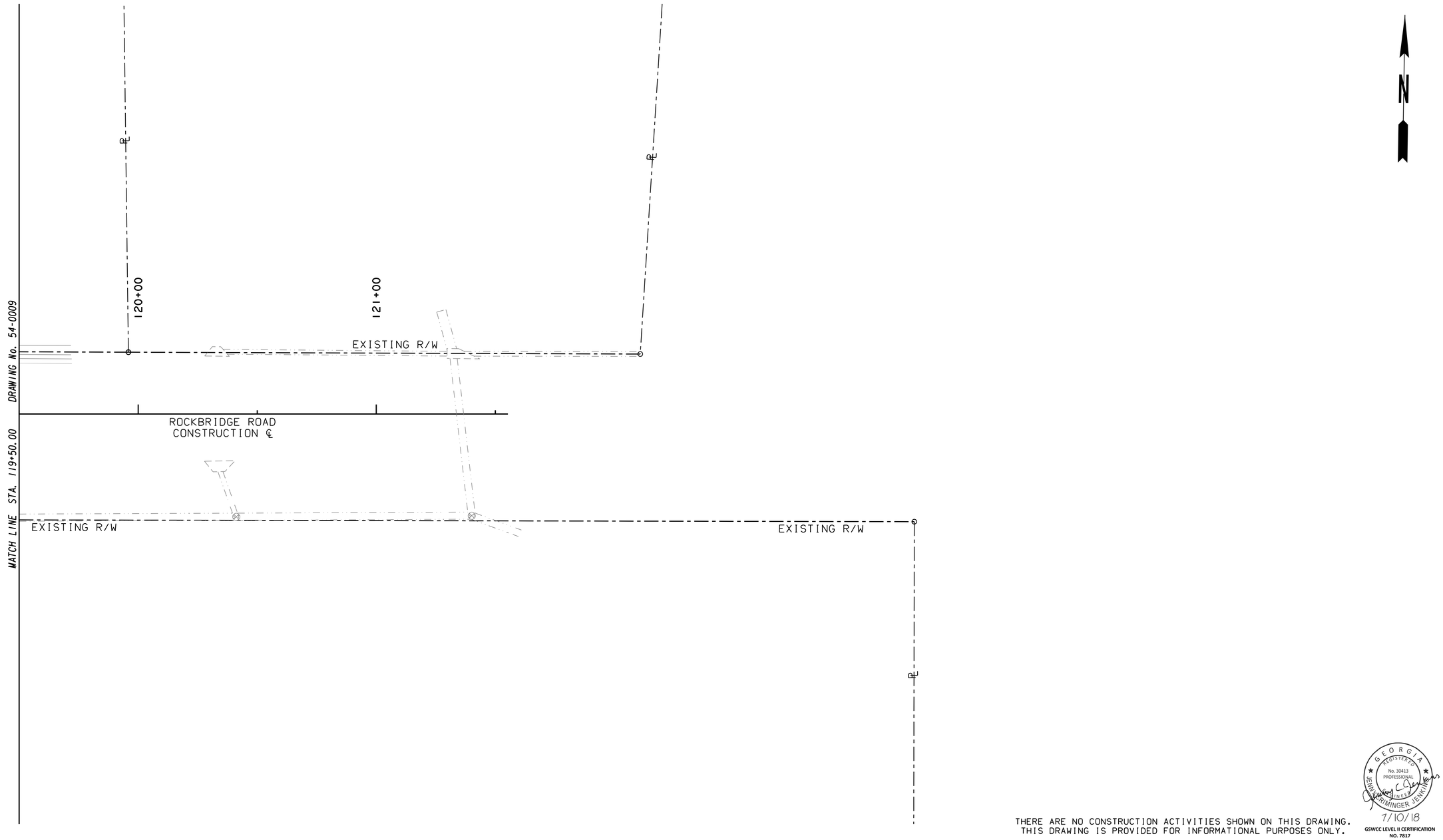

THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
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GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE — ℄ —
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C — F —
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DEKALB COUNTY GEORGIA 1822

vhb

SCALE IN FEET
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REVISION DATES		

BMP LOCATION DETAILS
INTERMEDIATE PHASE
ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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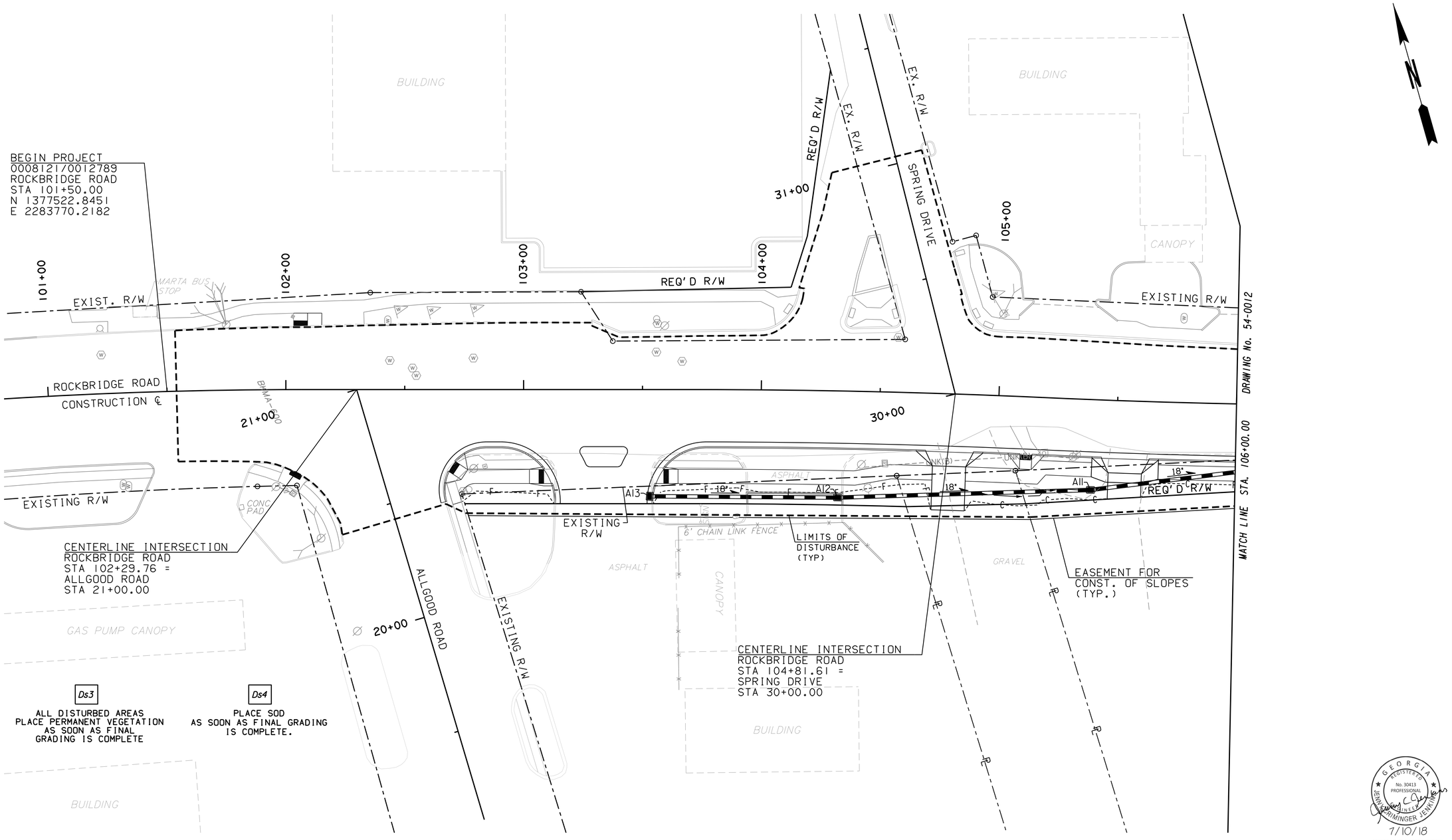
8/28/2015 CONBDR



Ds3
ALL DISTURBED AREAS
PLACE PERMANENT VEGETATION
AS SOON AS FINAL
GRADING IS COMPLETE

Ds4
PLACE SOD
AS SOON AS FINAL GRADING
IS COMPLETE.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER MINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

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

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES		

BMP LOCATION DETAILS FINAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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8/28/2015 CONBDR

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CENTERLINE INTERSECTION
ROCKBRIDGE ROAD
STA 109+62.27 =
CLUBHOUSE DRIVE
STA 40+00.00

EXISTING R/W

CLUBHOUSE DRIVE

EXISTING R/W

ONE STORY BRICK

BUILDING

107+00

108+00

109+00

110+00

41+00

EXISTING R/W

EXISTING R/W

EX. R/W

UNK(B)

UNK(B)

MATCH LINE STA. 110+50.00

DRAWING No. 54-0011

ROCKBRIDGE ROAD
CONSTRUCTION ℄

40+00

MATCH LINE STA. 106+00.00

DRAWING No. 54-0013

Ds4

A10

A9

A8

A8.1

A8.2

A7

A6

A6.1

A6.2

18"

EXIST. R/W

EX. R/W

REQ'D R/W

ASPHALT

SIGN

LIMITS OF DISTURBANCE (TYP)

EASEMENT FOR CONST. OF SLOPES (TYP.)

EASEMENT FOR CONST. OF DRIVES (TYP.)

BUILDING (POST OFFICE)

BUILDING

BUILDING

Ds3

ALL DISTURBED AREAS
PLACE PERMANENT VEGETATION
AS SOON AS FINAL
GRADING IS COMPLETE

Ds4

AREA BETWEEN HEADER CURB
AND CONCRETE SIDE BARRIER
SHALL BE SODDED. PLACE SOD
AS SOON AS FINAL GRADING
IS COMPLETE.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER
JENNIFER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE	P
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

DEKALB · COUNTY · GEORGIA 1822

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SCALE IN FEET
0 20 40 80

REVISION DATES		

BMP LOCATION DETAILS
FINAL PHASE
ROCKBRIDGE ROAD
FROM ALLGOOD ROAD TO ROWLAND ROAD

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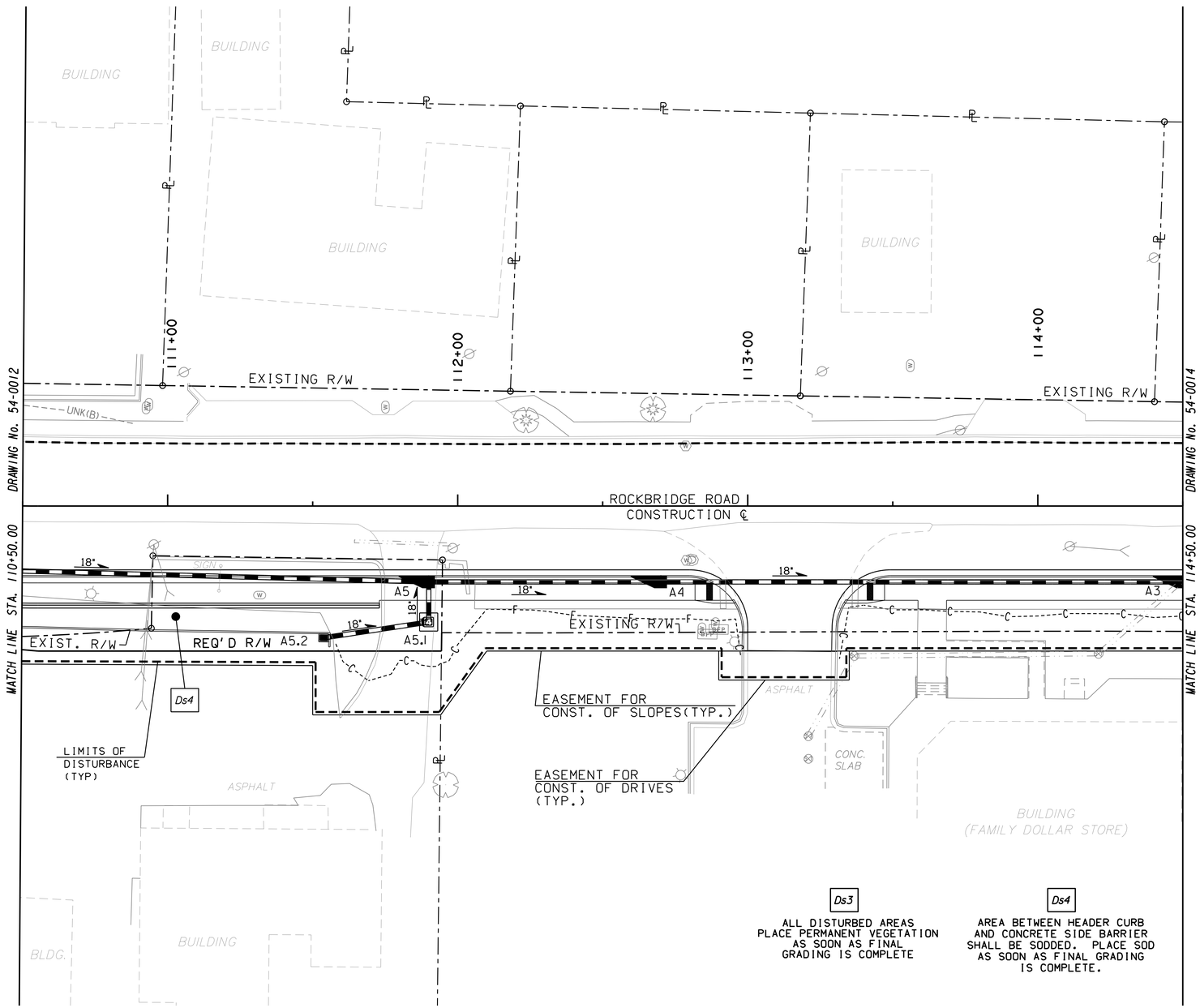
8/28/2015 CONBDR



Ds3

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AREA BETWEEN HEADER CURB AND CONCRETE SIDE BARRIER SHALL BE SODDED. PLACE SOD AS SOON AS FINAL GRADING IS COMPLETE.

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER GRIMINGER JENNINGS

7/10/18

GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE
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DEKALB · COUNTY · GEORGIA 1822

vhb

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REVISION DATES

BMP LOCATION DETAILS FINAL PHASE

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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VERIFIED:		DATE:		

8/28/2015 CONBDR

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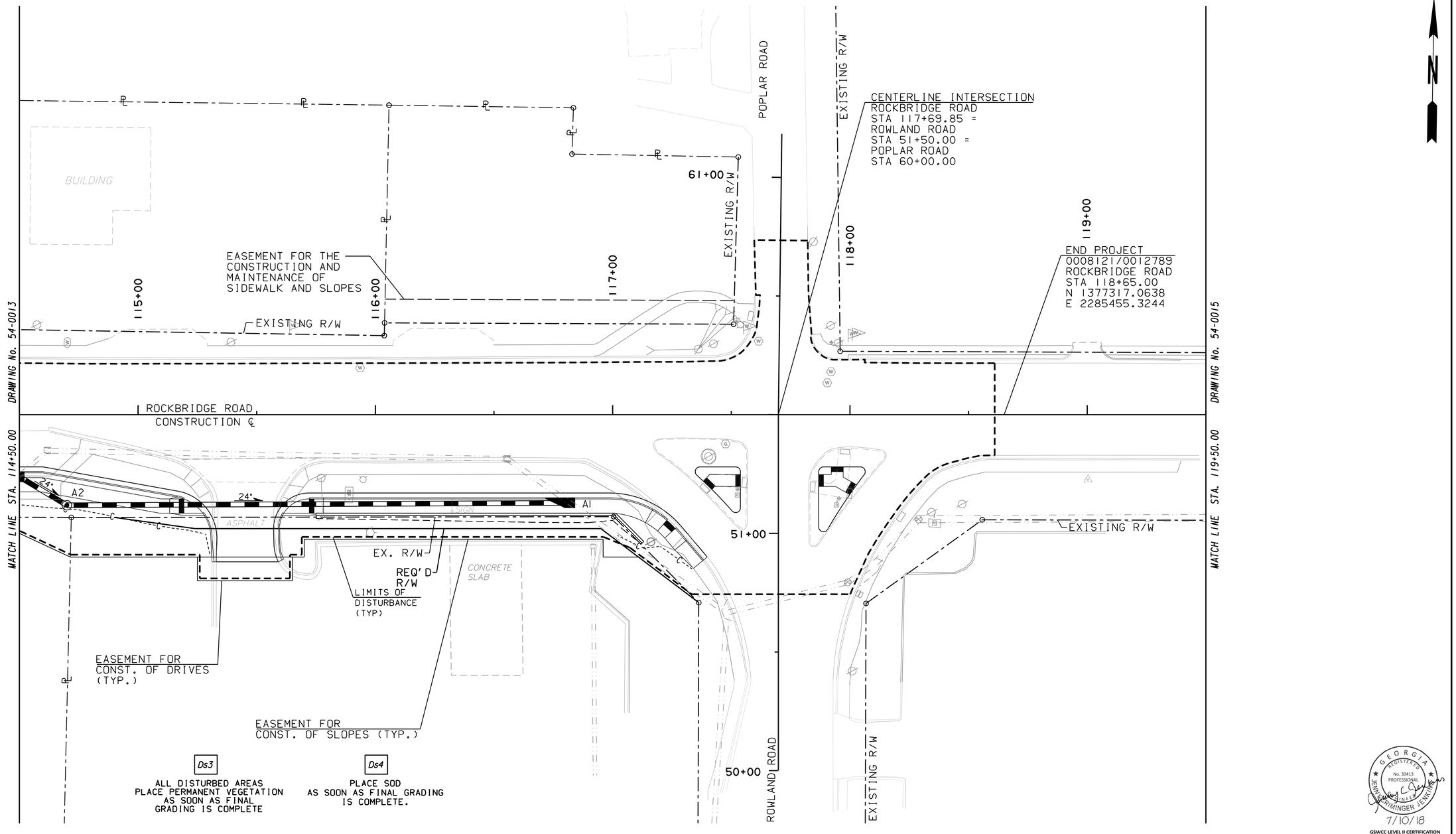

GEORGIA REGISTERED No. 30413 PROFESSIONAL JENNIFER HIMINGER JENKINS ENGINEER

7/10/18

GSWCC LEVEL II CERTIFICATION NO. 7817

8/28/2015 CONBDR

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DEKALB COUNTY GEORGIA 1822

vhb

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REVISION DATES

BMP LOCATION DETAILS FINAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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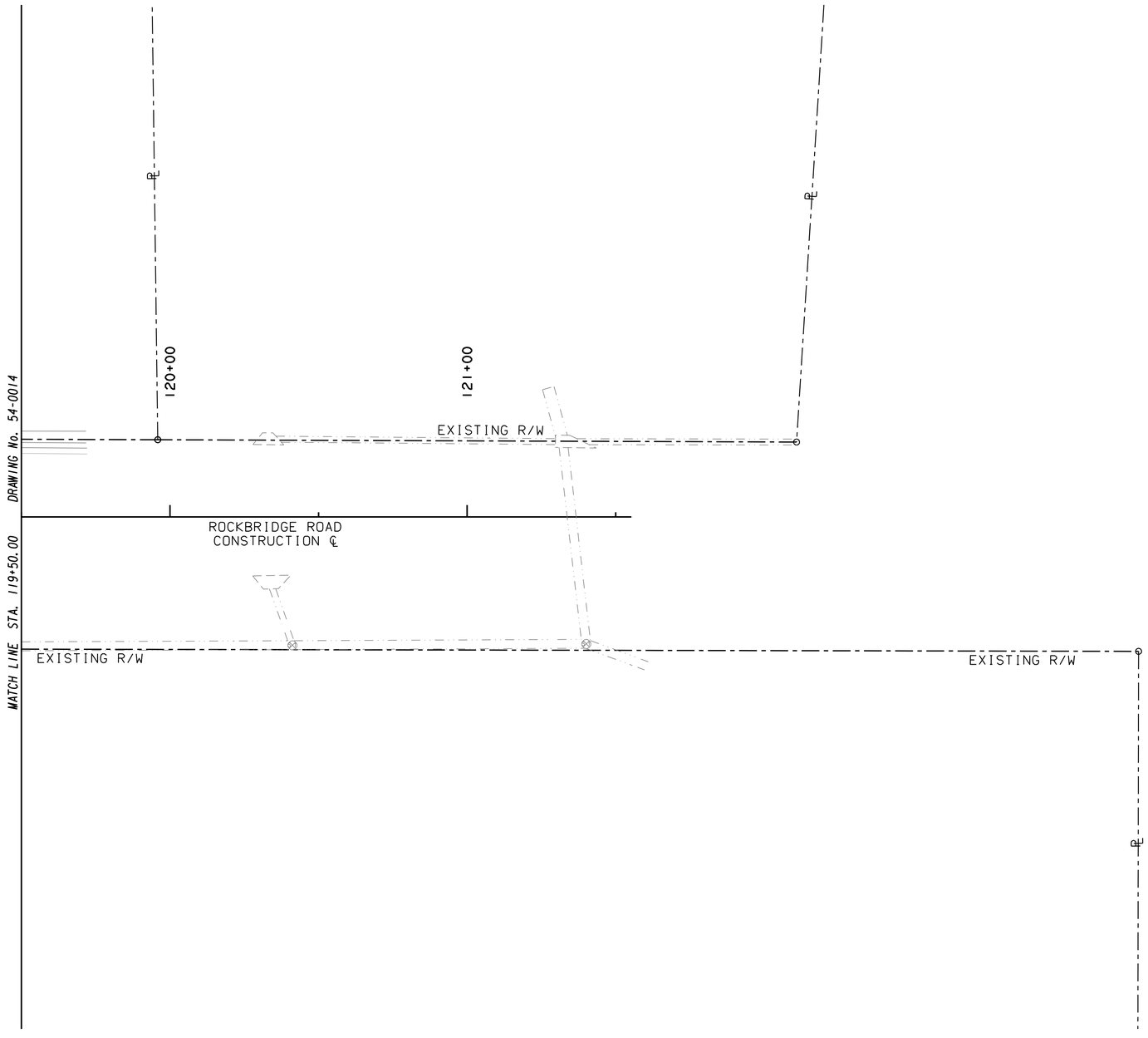

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THERE ARE NO CONSTRUCTION ACTIVITIES SHOWN ON THIS DRAWING.
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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 30413 JENNIFER PRIMINGER JENKINS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

PROPERTY AND EXISTING R/W LINE — ℄ —
REQUIRED R/W LINE
CONSTRUCTION LIMITS — C — F —
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ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS FINAL PHASE
ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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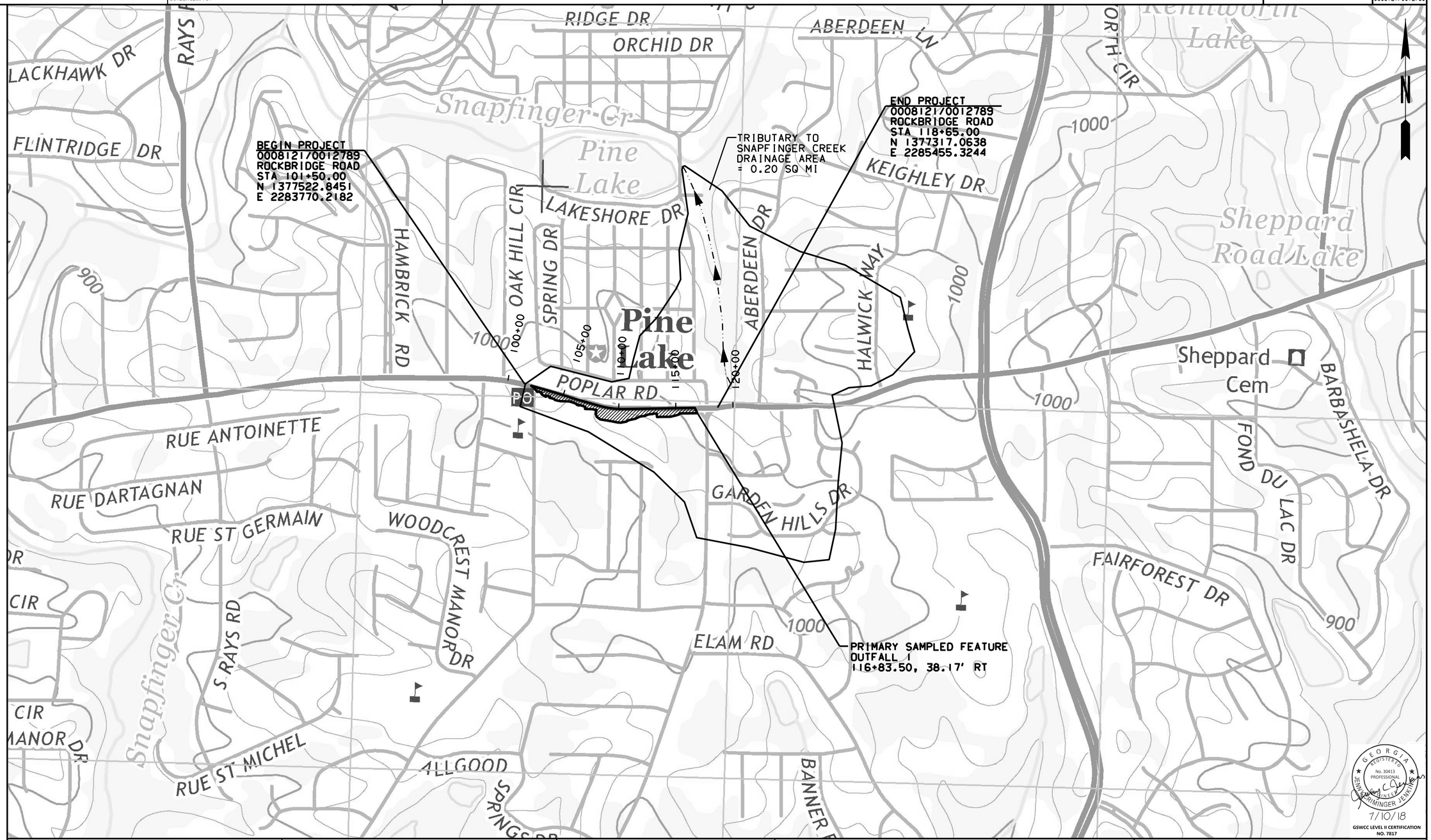

PROPERTY AND EXISTING R/W LINE	—— - E - ——
REQUIRED R/W LINE	——
CONSTRUCTION LIMITS	— C — F —
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

DEKALB · COUNTY · GEORGIA 1822

vhb

SCALE IN FEET
0 400 800 1600

GEORGIA REGISTERED No. 30413 PROFESSIONAL ENGINEER JENNIFER JENNINGS
7/10/18
GSWCC LEVEL II CERTIFICATION NO. 7817

REVISION DATES		

WATERSHED MAP SITE MONITORING PLAN

ROCKBRIDGE ROAD FROM ALLGOOD ROAD TO ROWLAND ROAD

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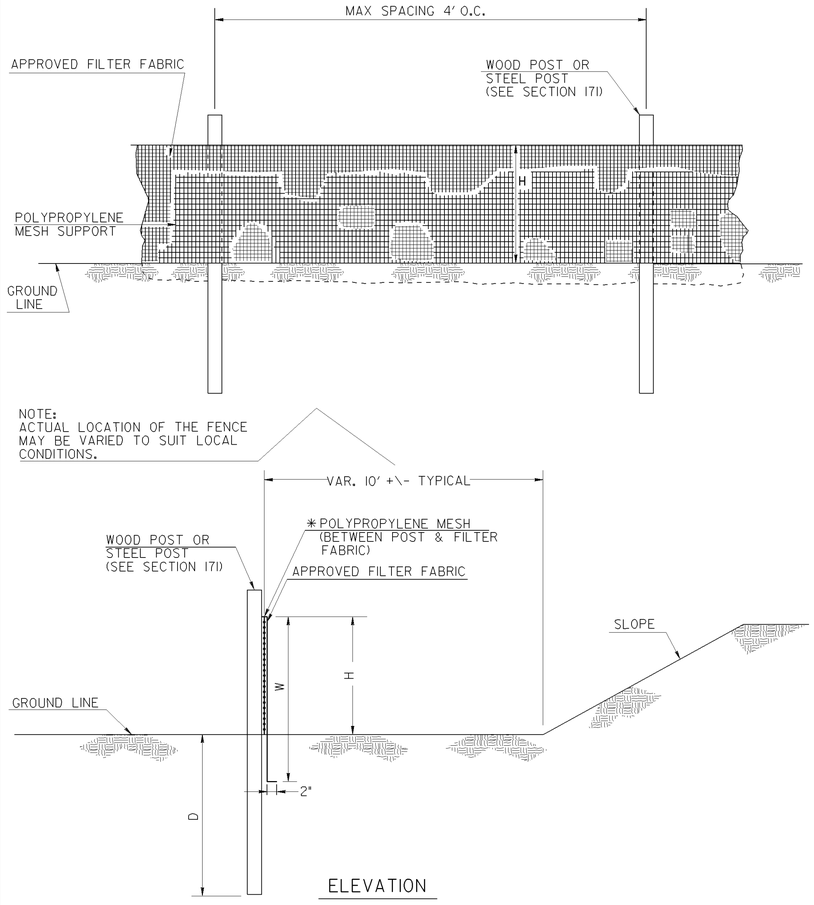
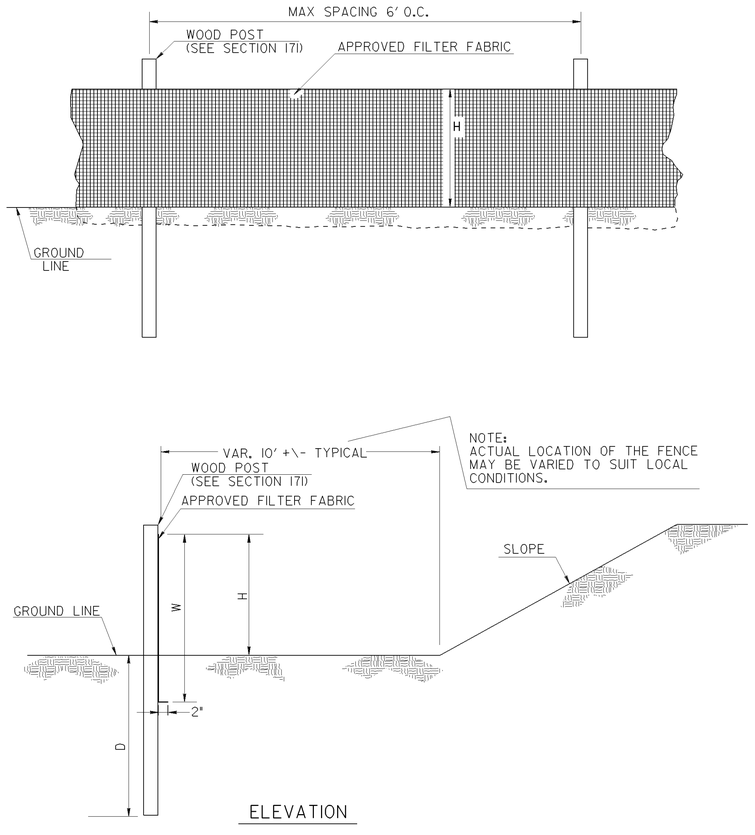
VERIFIED:		DATE:		

8/28/2015 CONBDR

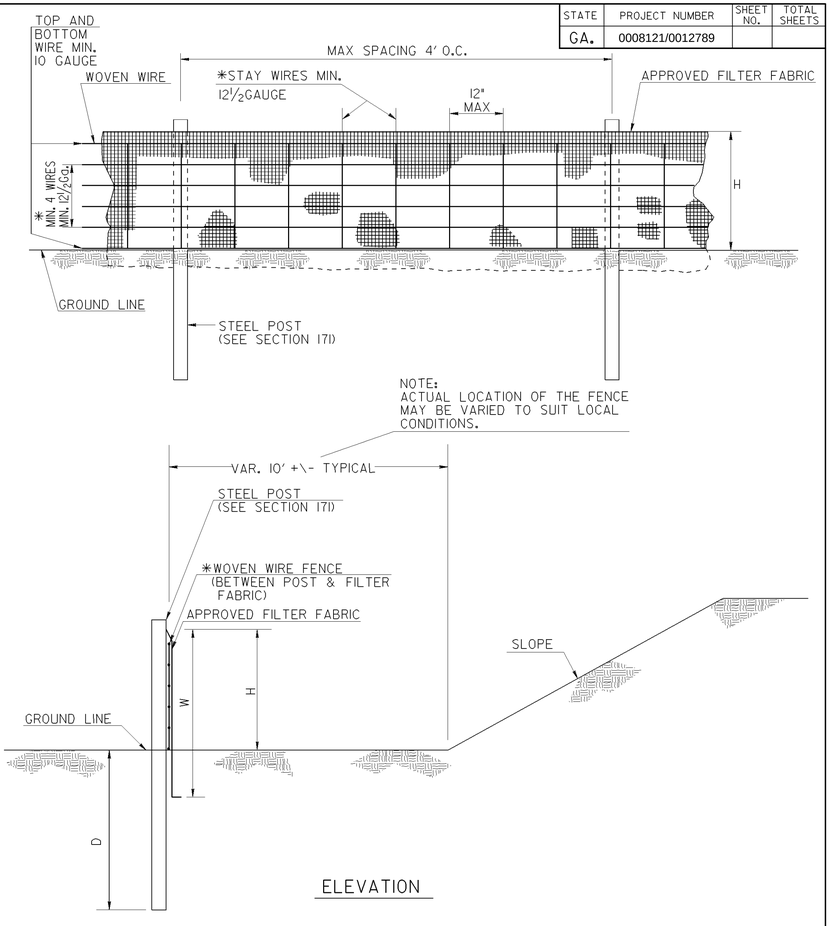
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT



SINGLE ROW TYPE A SILT FENCE



SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE 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:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾ INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. 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 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE QPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

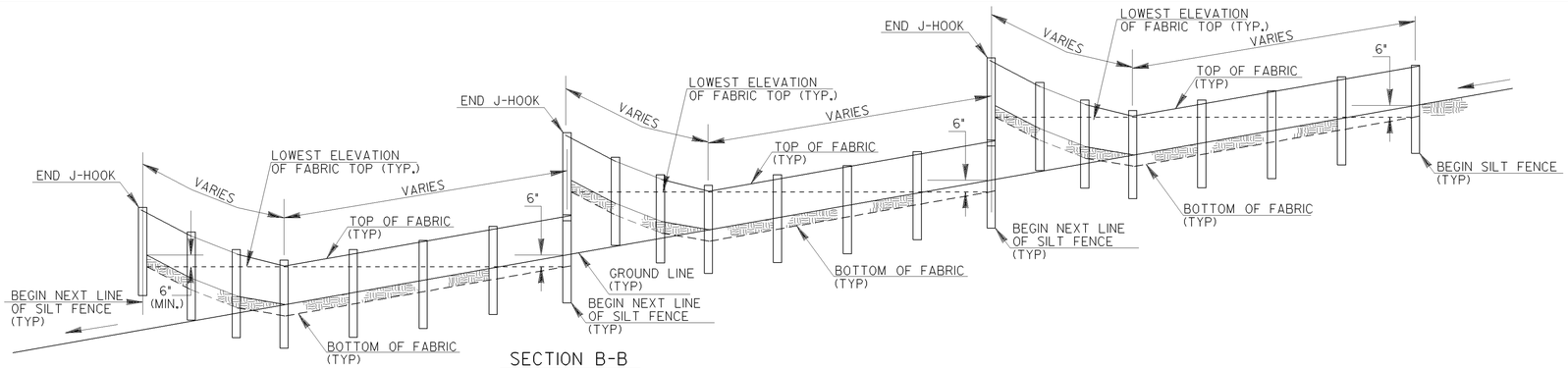
CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

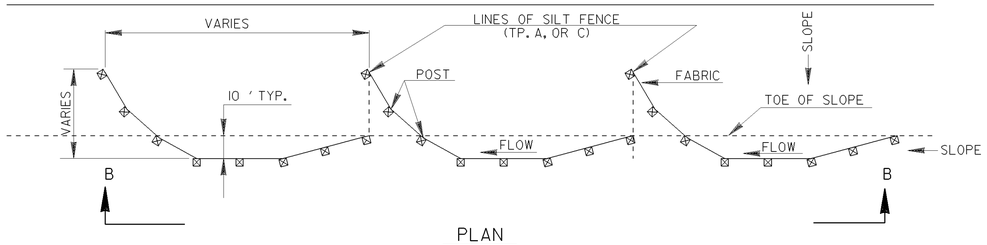
NO SCALE — REV. AND REDRAWN JAN. 2011

56-0001

NUMBER D-24A (SHEET 1 OF 4)

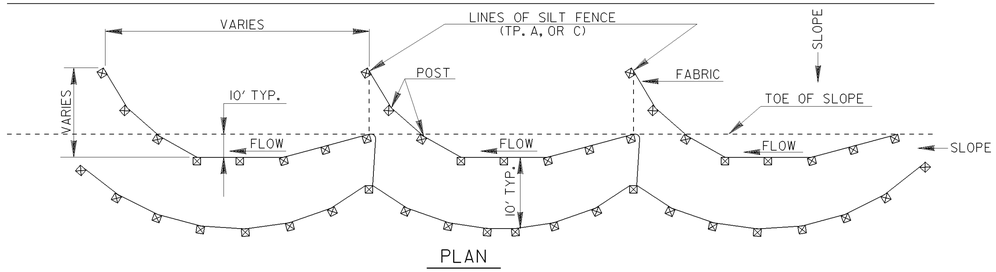


SECTION B-B



PLAN

SINGLE ROW SILT FENCE



PLAN

DOUBLE ROW SILT FENCE

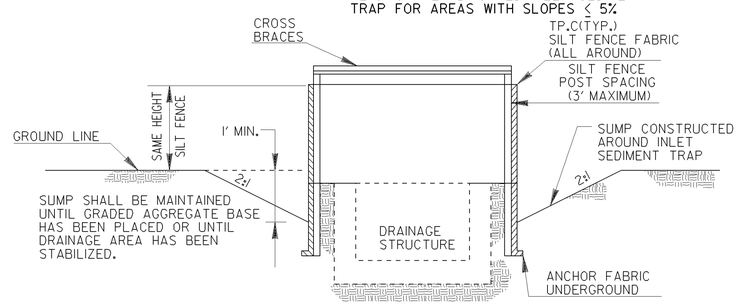
TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

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.

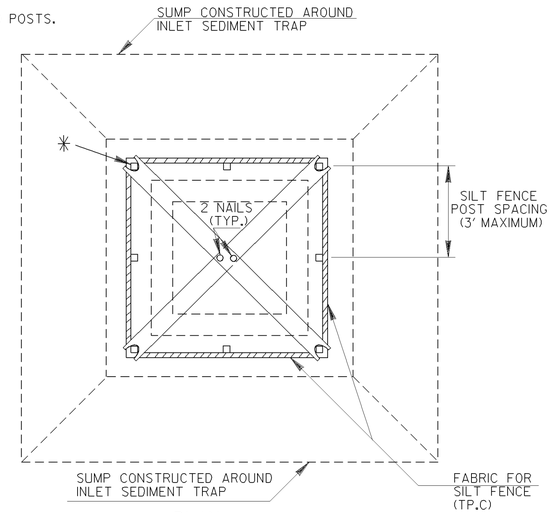
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES ≤ 5%



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.

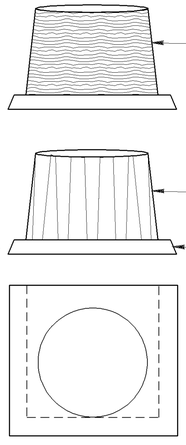
NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. 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.
5. 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.

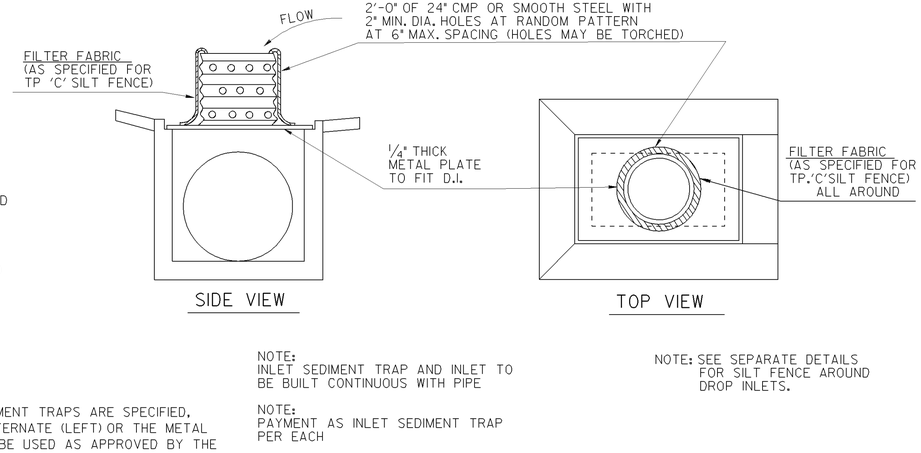
NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

(PLASTIC ALTERNATE)



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

INLET SEDIMENT TRAP - FOR DROP INLETS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

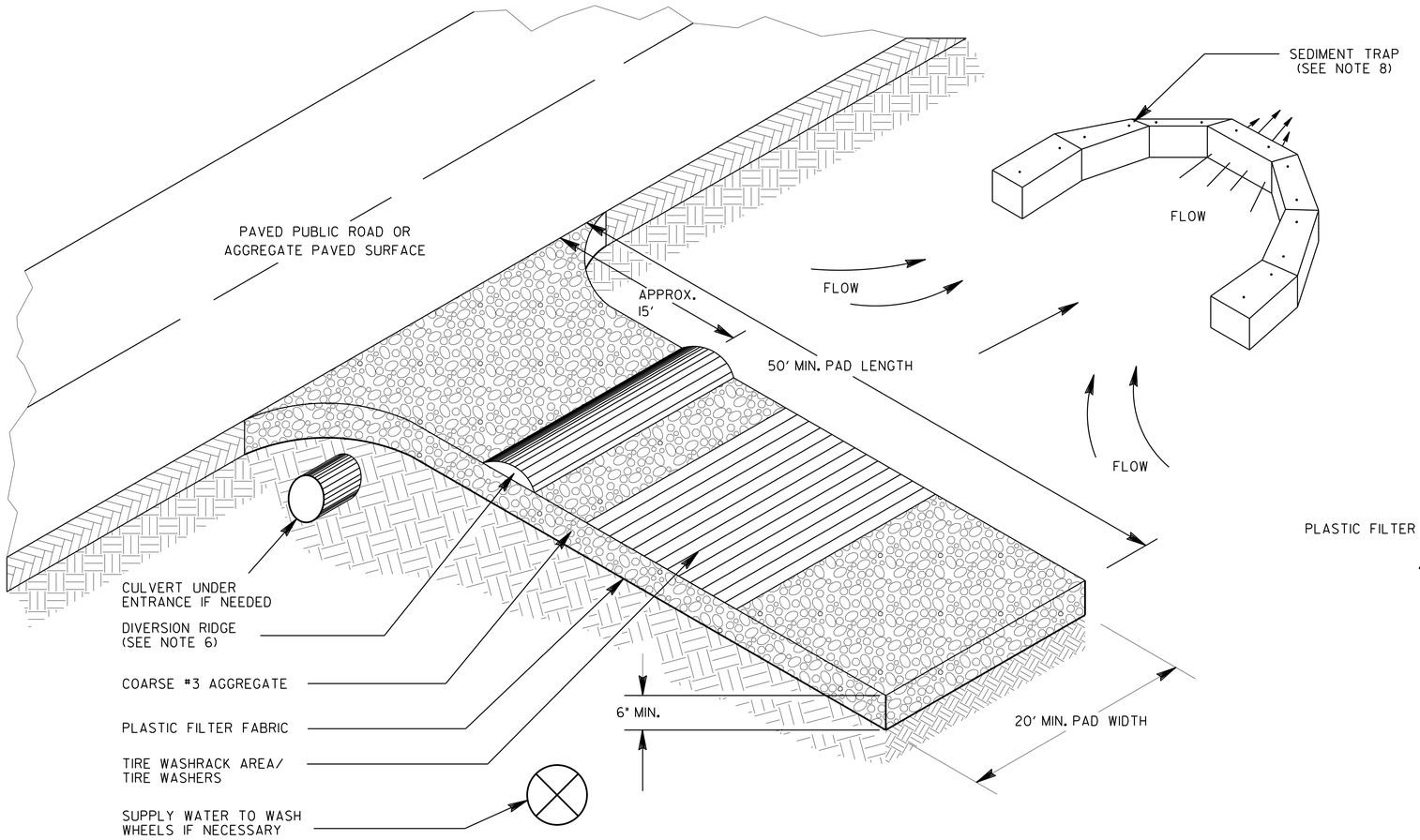
DATE | REVISION | BY

NO SCALE — JANUARY 2011

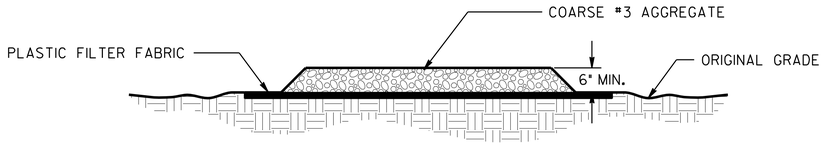
56-0002

NUMBER D-24C (SHEET 3 OF 4)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		



ENTRANCE ELEVATION



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, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE #3 AGGREGATE WITH 0.0% PASSING THE 1" U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED 6" TO 8" HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD, THE TIRES SHALL BE WASHED PRIOR TO ENTERING PUBLIC ROADS. THE WASHING SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

PAY ITEM:

163-0300	CONSTRUCTION EXIT	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)

BY	REVISION	DATE
DLE	REV. GSWCC 2016 MANUAL	4-22-2016
TPC	REV. CONSTR. EXIT LABELS	01-19-11

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

CONSTRUCTION EXIT

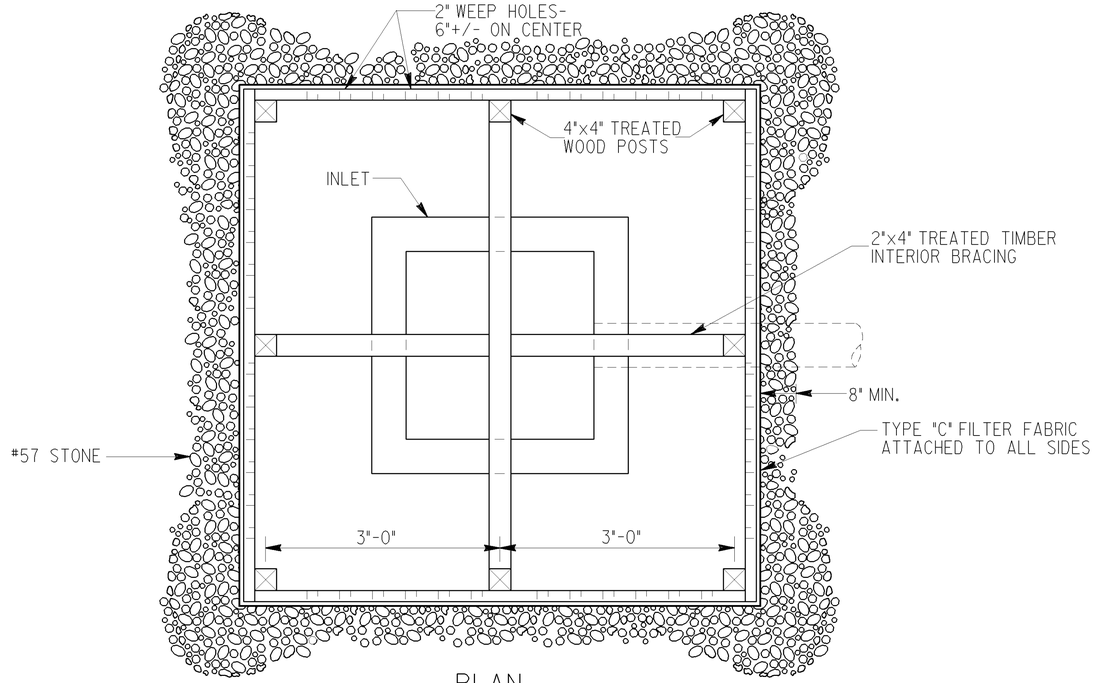
NO SCALE

FEBRUARY 2001

DESIGNED
DRAWN DLE
TRACED
CHECKED

56-0003

NUMBER D-41

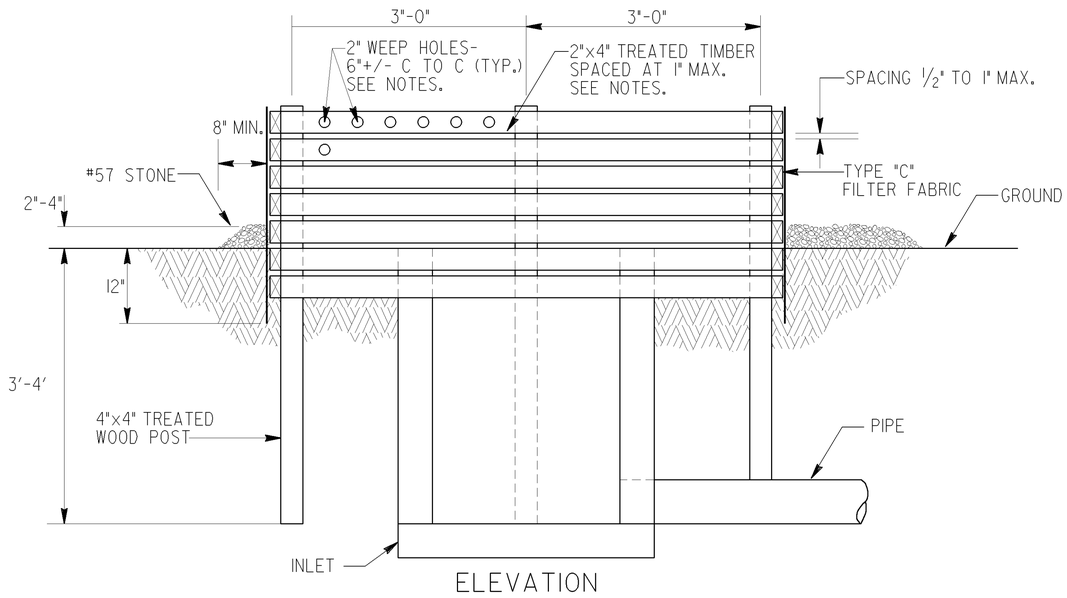


PLAN

NOTES:

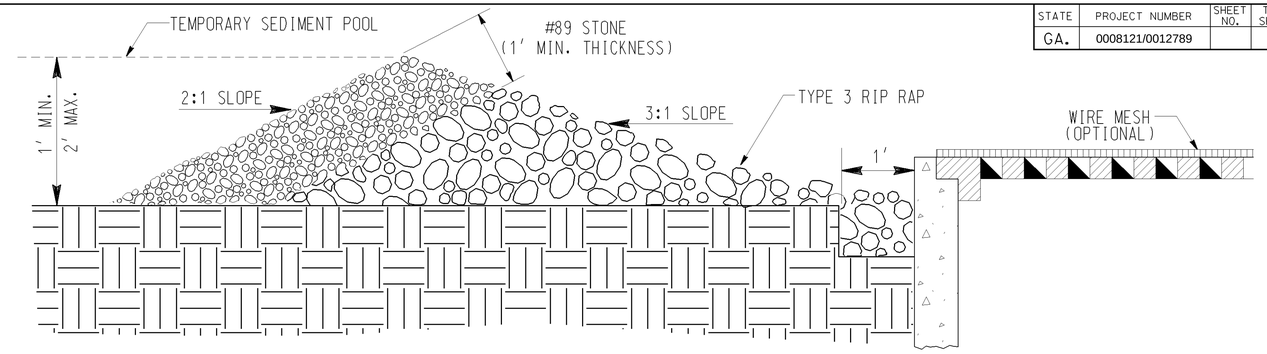
BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1" APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.

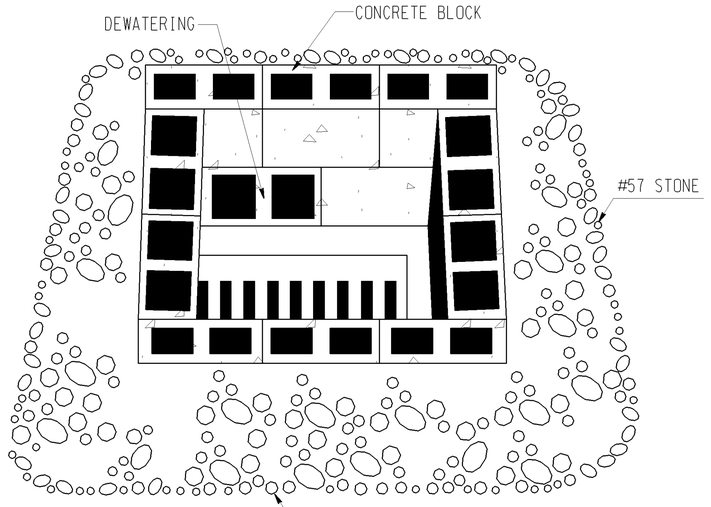


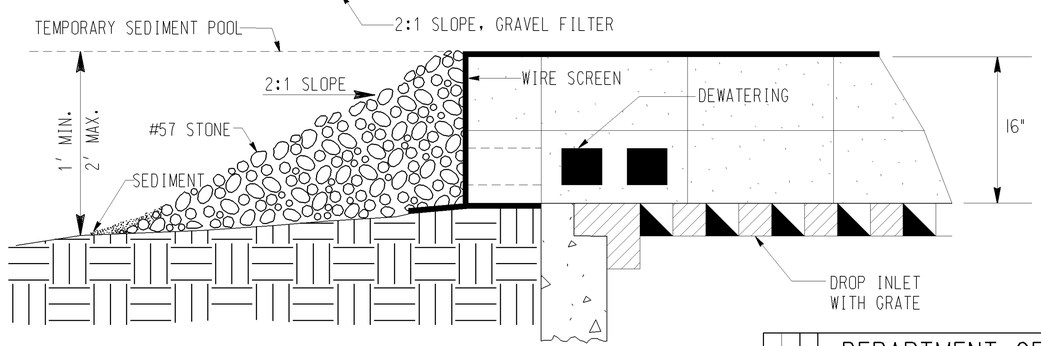
ELEVATION

BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION (GRAVEL DONUT) Sd2-G





BLOCK & GRAVEL DROP INLET PROTECTION (Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
INLET SEDIMENT TRAPS
BAFFLE BOX Sd2-B
BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg
GRAVEL DROP INLET PROTECTION Sd2-G

NO SCALE — MAY 2008

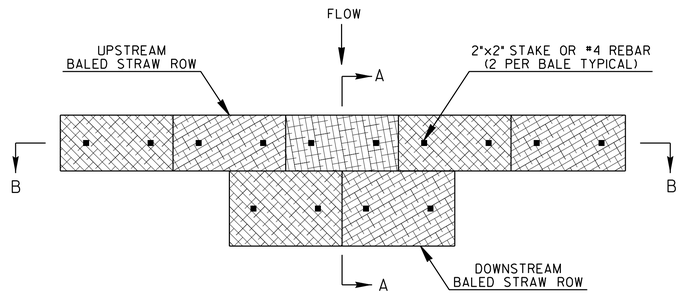
DATE | REVISION | BY

NUMBER 56-0004 D-42

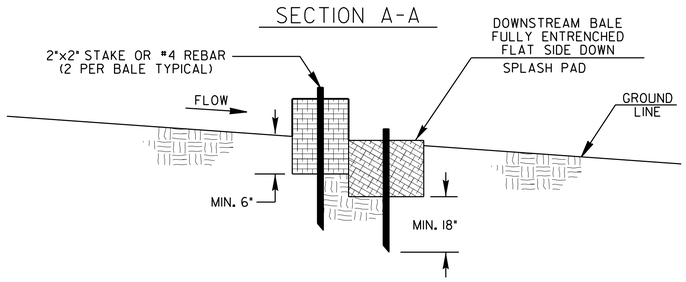
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

BALED STRAW CHECK DAM

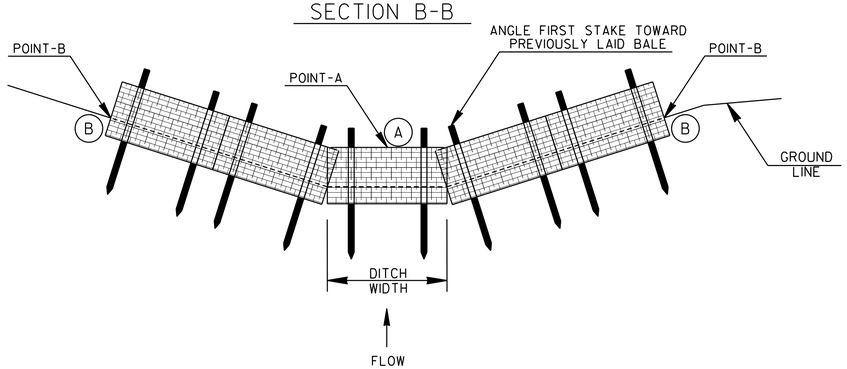
PLAN VIEW



SECTION A-A



SECTION B-B



BALED STRAW CHECK DAM GENERAL NOTES:

1. BALED STRAW DIMENSIONS MAY VARY. ASSUME APPROXIMATE DIMENSIONS OF 14"Wx18"Hx36"L FOR A TWO STRINGER AND 16"Wx24"HX48"L FOR A THREE STRINGER. BALES SHOULD BE BOUND WITH WIRE OR NYLON INSTEAD OF TWINE.
2. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE TOP OF THE UPSTREAM BALES IN THE CENTER OF CHANNEL SHOULD BE LEVEL AND SET AT THE SAME ELEVATION. THE DOWNSTREAM BALES SHOULD BE ENTRENCHED EVEN WITH THE CHANNEL BOTTOM.
3. THE GROUND LINE AT POINT-B SHALL ALWAYS BE AT MINIMUM OF 6 INCHES ABOVE POINT-A.
4. REMOVE SEDIMENT ONCE THE ACCUMULATED HEIGHT HAS REACHED HALF THE STORAGE HEIGHT.
5. INSTALLATION MAY BE ADJUSTED SLIGHTLY TO MEET FIELD CONDITIONS; HOWEVER, SPLASH PAD IS REQUIRED.

PAY ITEMS:

163-0529	CONSTRUCT & REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM (LF)
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

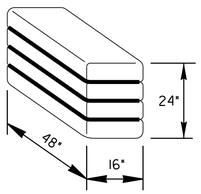
SPECIAL NOTES:

1. BALED STRAW AND COMPOST FILTER SOCK CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0 CFS OR DRAINAGE AREAS UP TO 1.0 ACRE. IF THESE ITEMS ARE USED IN DRAINAGE AREAS GREATER THAN 1.0 ACRE, FLOWS GREATER THAN 2.0 CFS, OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM AT THE DOWNSTREAM DISCHARGE POINT SHALL BE USED IN CONJUNCTION WITH BALED STRAW OR COMPOST FILTER SOCK CHECK DAMS.
2. BALED STRAW AND COMPOST FILTER SOCK CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STREAMS OR IN A TIDAL AREA BELOW HIGH TIDE.

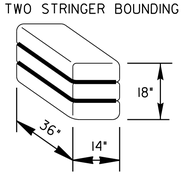
APPROXIMATE BALED STRAW DIMENSIONS

(SEE NOTE# 1)

THREE STRINGER BOUNDING

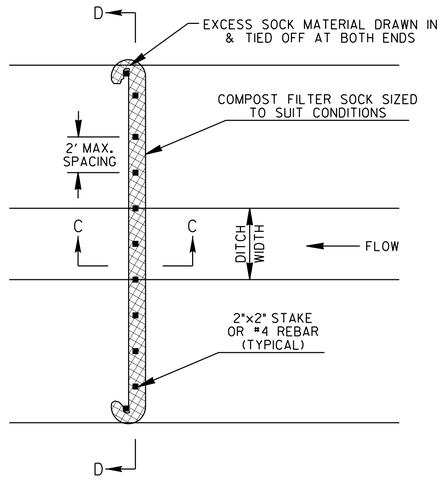


TWO STRINGER BOUNDING

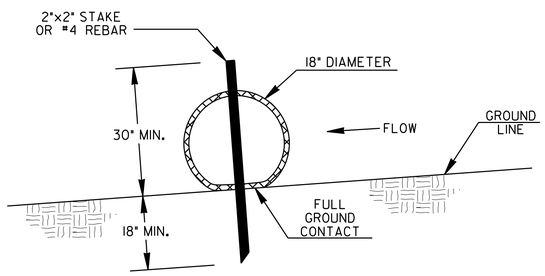


COMPOST FILTER SOCK CHECK DAM

PLAN VIEW

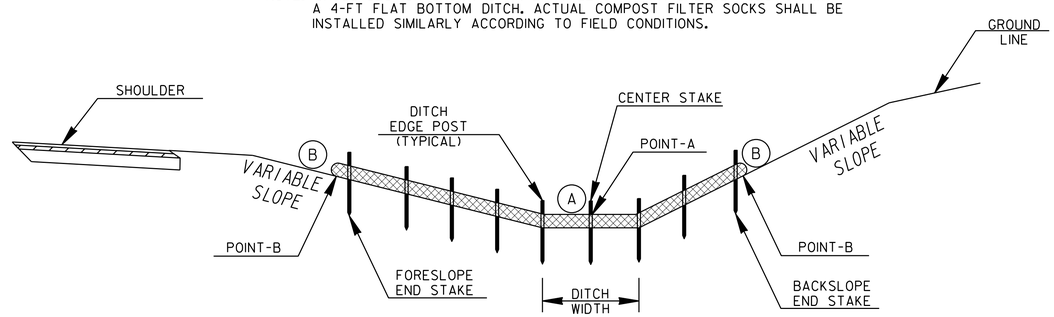


SECTION C-C



SECTION D-D

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL COMPOST FILTER SOCKS SHALL BE INSTALLED SIMILARLY ACCORDING TO FIELD CONDITIONS.



COMPOST FILTER SOCK CHECK DAM GENERAL NOTES:

1. THE CONTRACTOR MAY ELECT TO USE 18" DIAMETER COMPOST FILTER SOCK CHECK DAMS IN LIEU OF BALED STRAW CHECK DAMS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CONSTRUCTION, REMOVAL, OR MAINTENANCE OF COMPOST FILTER SOCK CHECK DAMS.
2. COMPOST FILTER MEDIA SHALL MEET THE SPECIFICATIONS IN THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE CONTRACTOR SHALL PROVIDE VERIFICATION OF MEETING SPECIFICATIONS IF REQUESTED.
3. THE GROUND LINE AT POINT-B SHALL BE A MINIMUM OF 6 INCHES ABOVE POINT-A.
4. ENSURE COMPOST FILTER SOCK HAS FULL CONTACT WITH GROUND SURFACE. PLACE ONE STAKE AT THE CENTER OF CHANNEL, AT THE TOE OF FORESLOPE AND BACKSLOPE, AND AT THE ENDS OF DEVICE. STAKES SHALL HAVE A MAXIMUM SPACING OF 2 FEET.
5. REMOVE SEDIMENT ONCE THE ACCUMULATED HEIGHT HAS REACHED HALF THE STORAGE HEIGHT.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

BALED STRAW & COMPOST FILTER SOCK CHECK DAMS FOR EROSION CONTROL

NO SCALE — 4-22-2016

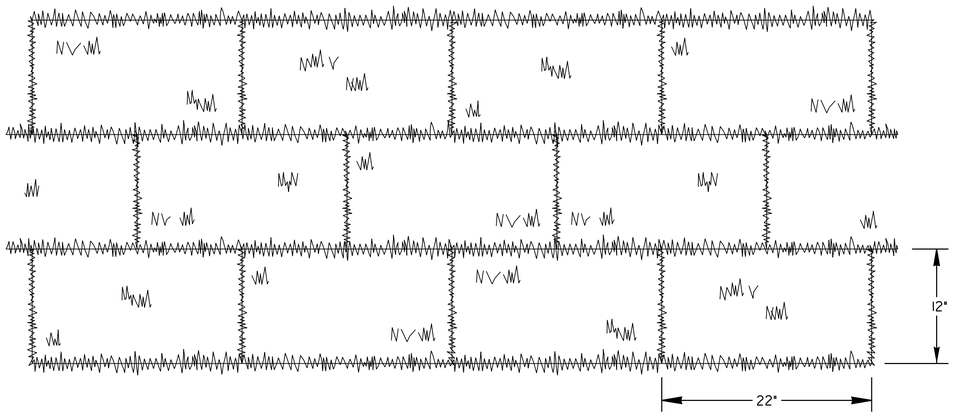
DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

56-0005

NUMBER D-52

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0008121/0012789		

SOD LAYOUT

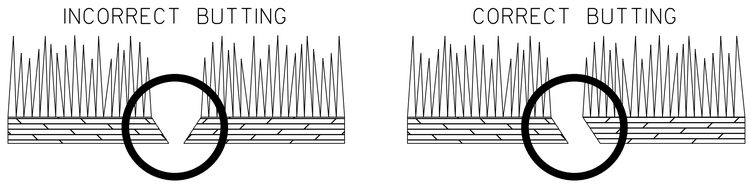


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52' LONG ROLLS.

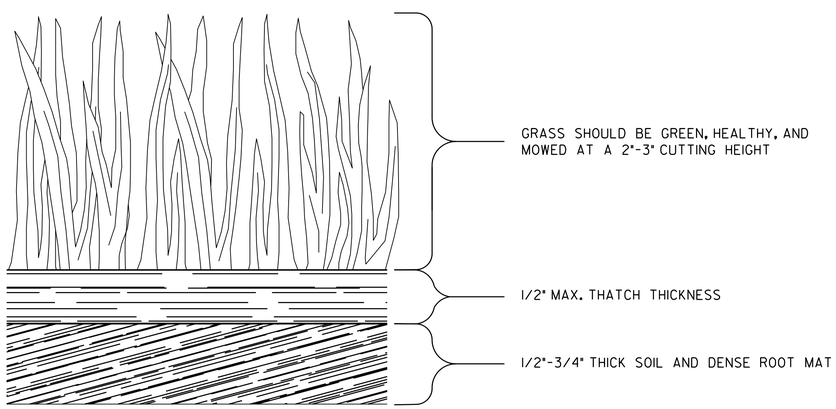
GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52'L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

ABUTTING SOD



SOD APPEARANCE



PAY ITEM:
700-9300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SOD INSTALLATION

NO SCALE 4-22-2016

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

56-0006

NUMBER D-54