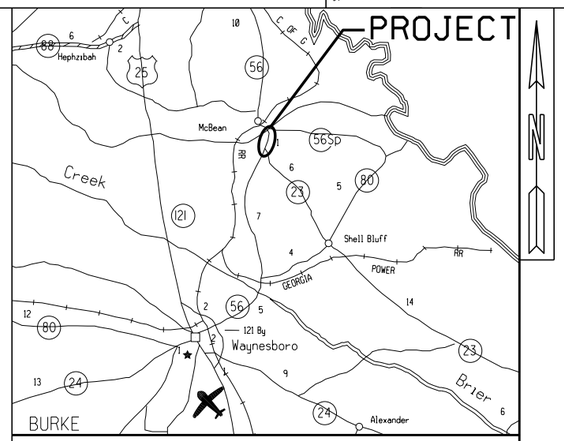
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED
SR 56 from Richmond County/Burke County line (McBean Creek) to SR 23

TIA TRANSPORTATION INVESTMENT ACT



LOCATION SKETCH (N.T.S)

DESIGN DATA:
TRAFFIC A.D.T.: 7300 (2018)
TRAFFIC A.D.T.: 13250 (2038)
TRAFFIC D.H.V.: 3595
DIRECTIONAL DIST: 63 / 37
% TRUCKS: 11.2 %
24 HR.TRUCKS %: 22.2 %
SPEED DESIGN: 55 MPH

LOCATION & DESIGN APPROVAL DATE:

FUNCTIONAL CLASS:
RURAL MINOR ARTERIAL

THIS PROJECT IS 100% IN BURKE COUNTY AND IS 100% IN CONG.DIST.NO.012.

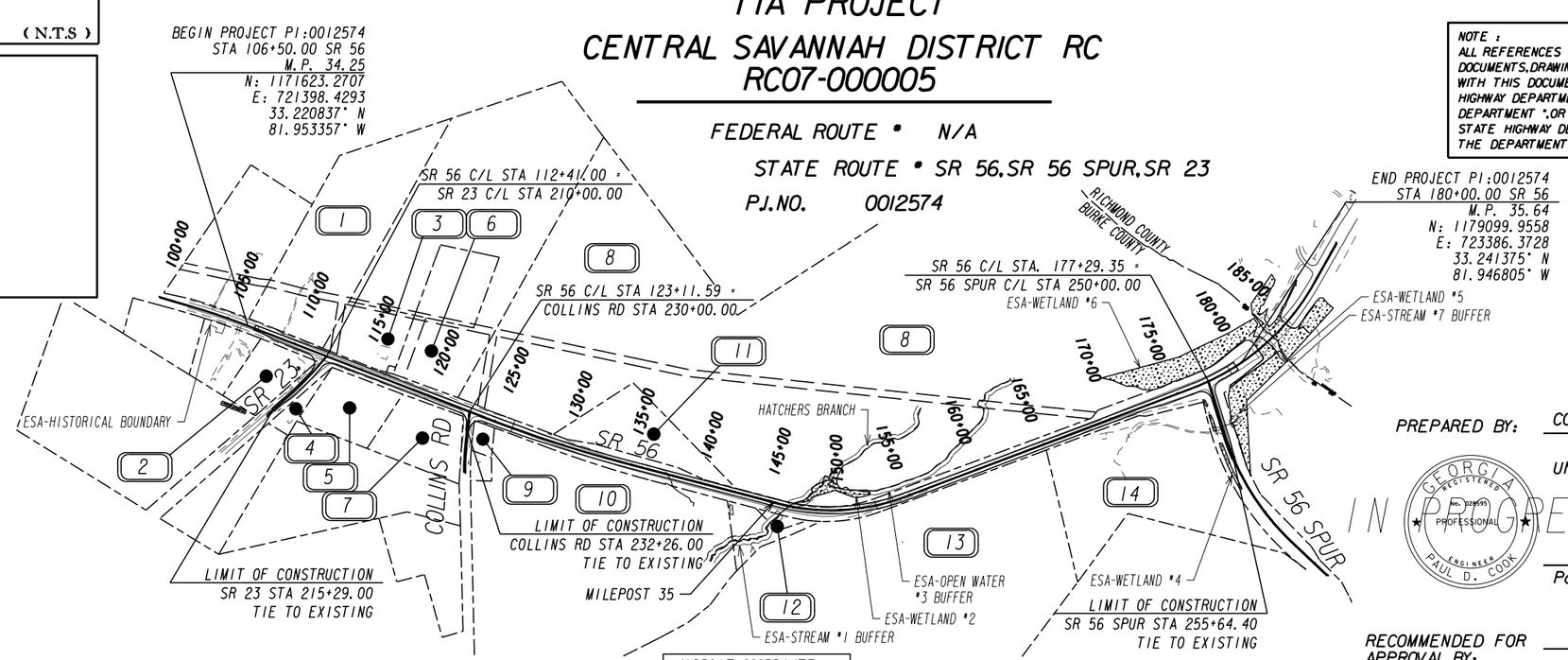
PROJECT DESIGNATION: TIA
DESIGNED IN ENGLISH UNITS.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 EAST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

TIA PROJECT
CENTRAL SAVANNAH DISTRICT RC
RC07-000005

FEDERAL ROUTE * N/A
STATE ROUTE * SR 56, SR 56 SPUR, SR 23
P.I.NO. 0012574

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.



MIDPOINT COORDINATE
STATION 143+25.00
N: 1175518.7197
E: 723629.3356
LAT: 33.231531° N
LONG: 81.946035° W

SCALE IN FEET
0 500 1000 2000

LENGTH OF PROJECT	COUNTY No.033 BURKE Project No. RC07-000005 MILES
NET LENGTH OF ROADWAY	1.392
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	1.392
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.392

PREPARED BY: COLUMBIA ENGINEERING

UNDER THE SUPERVISION OF:

GEORGIA REGISTERED No. 028599 PROFESSIONAL ENGINEER PAUL D. COOK

IN PROGRESS

Paul D.Cook, P.E.

RECOMMENDED FOR APPROVAL BY: STATE TIA ADMINISTRATOR

DATE CHIEF ENGINEER

PLANS COMPLETED - -	
REVISIONS	

Columbia Engineering
LAND PLANNERS · CIVIL ENGINEERS · LANDSCAPE ARCHITECTS · SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096-3467
Phone: (770) 925-0357
Fax: (770) 925-0565

DRAWING No. 01-001

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

DRAWING NO.	DESCRIPTION
1-001	Cover
2-001 to 2-002	Index
3-001	Revision Summary
4-001 to 4-004	General Notes
5-001 to 5-004	Typical Sections
6-001 to 6-007	Summary Quantities
7-001	Quantities Amendment
8-001	Quantities Construction
10-001 to 10-002	Traffic Diagram
13-001 to 13-006	Mainline Plan
15-001 to 15-006	Mainline Roadway Profile
16-001 to 16-003	Crossroad Profile
17-001 to 17-003	Driveway Profile
19-000 to 19-089	Construction Staging Plans and Cross Sections
21-001 to 21-007	Drainage Area Map
22-001 to 22-003	Drainage Profiles
23-001 to 23-044	Cross Sections
24-000 to 24-006	Utility Plans
26-001 to 26-010	Signing and Marking Plans
27-000 to 27-002	Signal Plans
40-001 to 40-034	Construction Details (NOT INCLUDED)
41-001 to 41-032	Georgia Standards (NOT INCLUDED)
50-001	Erosion Control Cover Sheet
51-001 to 51-004	ESPC General Notes
52-001 to 52-006	Erosion Control Legend and Uniform Code Sheet
53-001 to 53-007	Erosion Control Drainage Area Map
54-001 to 54-030	BMP Location Details
55-001	Watershed Map / Site Monitoring Location
56-001 to 56-009	Erosion Control Construction Standards and Details (NOT INCLUDED)
	GEORGIA CONSTRUCTION DETAILS
D-10	4" CONCRETE DITCH PAVING DETAILS & QUANTITIES (1/1988)
D-15	TYPICAL SKEWED CULVERT ENDS (12/1983)
F-1	WOVEN WIRE FENCE (3/1988)
F-2	GATE DETAILS FOR CHAIN LINK & WOVEN WIRE FENCE (7/2011)
P-7	PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT (11/2011)
S-4A	CONSTRUCTION DETAILS SHOULDER PAVING AND SURFACING UNDER GUARDRAIL (4 LANES OTHER THAN INTERSTATES AND FREEWAYS) (9/2002)
S-7	SERRATED SLOPE DETAIL / BENCHING DETAIL (6/2009)
T01	SIGN PLATES (1/2000)
T02	DETAILS FOR TYPICAL FRAMING (3/2000)
T03A	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL (7/2002)
T03B	DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT) (7/2002)
T03C	DETAILS OF STRAIN POLE ERECTION FOR OVERHEAD SIGNS (1/2000)
T04	DETAILS OF CARDINAL DIRECTION SIGNS (1/2000)
T05A	DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2) (1/2003)
T05B	DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2) (1/2000)
T06	DETAILS OF OVERHEAD SIGNS (1/2000)
T09B	DETAILS OF TRUCK RESTRICTION SIGNS (2/2000)
T11A	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY (1/2000)
T12A	DETAILS OF PAVEMENT MARKING ARROW LOCATION (1/2000)
T12B	DETAILS OF PAVEMENT MARKINGS - ARROWS (4/2000)
T13A	DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2) (1/2000)
T14	DETAILS OF PAVEMENT MARKING HATCHING (11/2008)
T15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY (6/2015)

DRAWING NO.	DESCRIPTION
	GEORGIA CONSTRUCTION DETAILS (CONTINUED)
T15C	DETAILS OF RAISED PAVEMENT MARKERS (9/2011)
T24	DETAILS OF CENTERLINE RUMBLE STRIPS (1/2005)
TS 01	INDUCTIVE-LOOP DETECTOR INSTALLATION (4/2010)
TS 02	PULLBOX ASSEMBLY AND INSTALLATION (4/2010)
TS 03	CABINET BASE DETAIL (4/2010)
TS 03A	PEDESTRIAN FACILITIES INSTALLATION DETAILS (4/2010)
TS 04	DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES (4/2010)
TS 05	DETAILS OF CONCRETE POLES (4/2010)
TS 06	DETAILS OF STRAIN POLE AND MAST ARM FOUNDATIONS (4/2010)
TS 07	GROUNDING DETAILS FOR TRAFFIC SIGNAL SUPPORT STRUCTURES (4/2010)
TS 08	UTILITY CLEARANCE DETAIL (4/2010)
	GEORGIA STANDARDS
1120	FLARED END SECTIONS FOR PIPES (6/2006)
1122-1	SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PARALLEL TO MAINLINE (SHEET 1 OF 3) (1/2005)
1122-2	SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PARALLEL TO MAINLINE (SHEET 1 OF 3) (1/2005)
1122-3	SAFETY END SECTION (CONCRETE) (FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PARALLEL TO MAINLINE (SHEET 1 OF 3) (1/2005)
1125	INLET HEADWALL - OUTLET HEADWALL (10/1999)
3054	END POST AND END POST GUARDRAIL ATTACHMENT DETAIL (9/2002)
3215	SQUARE PRESTRESSED CONCRETE PILES (2/1984)
3901	BAR BENDING DETAILS (8/1969)
4000W	GUARDRAIL WARRANT GUIDES (4/2015)
4011A	POST AND OFFSET BLOCKS FOR "W" AND "T" BEAM GUARDRAIL (REPLACES STANDARDS 4011 & 4271) - ADDED COMPOSITE BLOCK (12/2001)
4040A	GUARDRAIL ANCHORAGE WITHOUT FLARE (ALTERNATE A) (5/1997)
4040B	GUARDRAIL ANCHORAGE WITHOUT FLARE (ALTERNATE B) (5/1997)
4360	REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING (10/2014)
4380	"W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT (8/2011)
4381	POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT (8/2011)
4383	GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT (8/2011)
4384	TYPE 12 31 INCH GUARDRAIL HEIGHT (8/2011)
4388	GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO ROADWAY) 31 INCH GUARDRAIL HEIGHT (8/2011)
4960	CONCRETE BARRIER - TEMPORARY (END TREATMENT OPTIONS) (5/2007)
4961	DETAILS OF PRECAST TEMPORARY BARRIER (9/2006)
4962	TEMPORARY TRAFFIC IMPACT ATTENUATOR - SAND LOADED MODULES (5/1999)
9003	FEDERAL AID AND STATE PROJECT MARKERS; RIGHT OF WAY MARKERS; COUNTY LINE MARKER (4/2006)
9029B	PERFORATED UNDERDRAIN (8/1983)
9030C	DELINEATORS & OBJECT MARKERS AND ALTERNATE POST (4/2006)
9031H	DETAIL FOR PLUGGING DRILLED WELL, STATIONING OF CONCRETE PAVEMENT, CONCRETE SLAB WELL COVER, DETAIL OF TURNOUTS - RURAL (10/1987)
9031N	CHAIN-LINK WIRE FENCE (8/1985)
9031T	ISOMETRIC VIEWS OF SIDE ROAD OR DRIVE FLARE DETAIL AT BRIDGE ENDS (8/1995)
9033	MILEPOSTS (3/2006)
9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS (3/2006)
9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY (3/2006)
9108	TRAFFIC CONTROL DETAIL TYPICAL BY-PASS DETOUR FOR 2-LANE HIGHWAY (3/2006)
9121	TAPERS, SIGNS, AND MARKINGS FOR PASSING LANES (3/2006)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

INDEX

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 02-001

DRAWING NO.	DESCRIPTION
	EROSION CONTROL LEGEND
EC-L1	Erosion Control Legend and Uniform Code Sheet (Sheet 1 of 6) (1/2013)
EC-L2	Erosion Control Legend and Uniform Code Sheet (Sheet 2 of 6) (1/2013)
EC-L3	Erosion Control Legend and Uniform Code Sheet (Sheet 3 of 6) (1/2013)
EC-L4	Erosion Control Legend and Uniform Code Sheet (Sheet 4 of 6) (1/2013)
EC-L5	Erosion Control Legend and Uniform Code Sheet (Sheet 5 of 6) (1/2013)
EC-L6	Erosion Control Legend and Uniform Code Sheet (Sheet 6 of 6) (1/2013)
	EROSION CONTROL CONSTRUCTION STANDARDS AND DETAILS
D-20	SILT CONTROL GATES FOR STRUCTURES TYPE - 1, 2, AND 3 (1/2011)
D-24A	TEMPORARY SILT FENCE (SHEET 1 OF 4) (1/2011)
D-24B	TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4) (1/2011)
D-24C	TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4) (1/2011)
D-24D	TEMPORARY SILT FENCE FABRIC CHECK DAM (SHEET 4 OF 4) (7/2015)
D-25	EROSION CONTROL CHECK DAMS (5/1993)
D-35	PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MAT) INSTALLATION ON DITCHES (1/2011)
D-41	CONSTRUCTION EXIT (1/2011)
D-42	INLET SEDIMENT TRAPS (5/2008)

DRAWING NO.	DESCRIPTION

Columbia Engineering
LAND PLANNERS · CIVIL ENGINEERS · LANDSCAPE ARCHITECTS · SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

INDEX

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 02-002

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

REVISION SUMMARY

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No.
03-001

1. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASLPHALT, CONCRETE FOR CONCRETE, AND ASPHALT FOR DIRT/EARTH 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. DRIVES SHALL BE CONSTRUCTED UING:

   ASPHALT - 165 LB/SY RECUCLED ASPHALTIC CONCRETE, 12.5mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME
   220 LB/SY RECUCLED ASPHALTIC CONCRETE, 19mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME
   6-INCH GRADED AGGREGATE BASE
   CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK
   COMMERCIAL - DRIVEWAY CONCRETE, 8" THICK

2. ALL EXISTING PIPE SHALL BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER. PIPE REMOVAL SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR THE PROJECT. ALL EXISTING CONCRETE OR STEEL PIPES THAT ARE TO BE ABANDONED AND LEFT IN PLACE SHALL BE PLUGGED WITH CLASS "B" CONCRETE. THE COST OF THE CLASS "B" CONCRETE FOR THIS PURPOSE SHALL BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS.

3. NO SEPARATE PAYMENT SHALL BE MADE FOR THE REMOVAL OF ANY REQUIRED TEMPORARY PIPE OR DRAINAGE STRUCTURES. ALL COSTS ASSOCIATED WITH SUCH REMOVALS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR THE PROJECT.

4. A NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGE WILL BE REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 15.17 ACRES.

5. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT, A SAWED JOINT SHALL BE PLACED TO PROVIDE A NEAT LINE FOR THE CONSTRUCTION JOINT. THE COST OF ASPHALT SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN OVERALL BID PRICE OF PROJECT.

6. THE PROJECT ENGINEER SHALL CONTACT THE GEOTECHNICAL ENGINEER AT OFFICE OF MATERIALS AND TESTING PRIOR TO CONSTRUCTION TO EVALUATE THE NEED FOR CRACK SURVEYS AND VIBRATION MONITORING.

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 OF 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 SPECIFICATIONS AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

8. AS RECOMMENDED BY THE SOIL SURVEY REPORT, THE FOLLOWING CULVERTS REQUIRE A BLANKET OF TYPE 11 FOUNDATION BACKFILL MATERIAL:
   12" UNDER TRIPLE 48" RCP (STA 146+69); 12" UNDER 48" RCP (STA 152+48);
   12" UNDER ALL OTHER BOX CULVERTS AND 48" OR LARGER CROSS DRAINS IN PROJECT CORRIDOR.

9. THERE IS NO SUITABLE PLACE TO BURY THE EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF THE EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

10. CONTRACTOR IS TO CLEAR RIGHT OF WAY, TEMPORARY AND PERMANENT EASEMENTS, FULL WIDTH, WHERE UTILITIES ARE TO BE RELOCATED TO, EXCLUDING ENVIRONMENTALLY SENSITIVE AREAS (ESA).

11. PARCEL 2 HAS USTS WITH MINIMAL CONTAMINATION. ANY CONTAMINATED SOIL EXCAVATED DURING CONSTRUCTION ACTIVITIES FOR PARCEL 2 MUST BE DISPOSED OF AT A PERMITTED LINED MUNICIPAL SOLID WASTE LANDFILL.

Pipe Culvert Material Alternates
For Coastal Plain Region

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
					ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
STORM DRAIN	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X	X		X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X	X	X	X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	250 < ADT < 1,500	X			X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	1,500 < ADT < 15,000	X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT > 15,000	X							
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT < 250		X	X	X		X	X	X
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT > 250				X		X	X	X
SIDE DRAIN				X	X	X	X		X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

NOTES:

1. Allowable materials are indicated by an "X".
2. Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications.
3. Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HDPE pipe; AASHTO M-304, PVC pipe; ASTM F-949, PVC pipe)
4. The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
5. 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.
6. Project specified pH and Resistivity values are entered into the respective boxes above to determine allowable pipe materials.

Rev. 03-22-10

TOTAL PROJECT AREA = 29.99 ACRES
TOTAL DISTURBED AREA = 15.17 ACRES

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

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

GENERAL NOTES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 04-001

THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
ATT/D TELECOM	TELECOM	770-784-3972	24-001 to 24-006
COMCAST CABLEVISION	TELECOM	706-739-1846	24-001
PLANTERS EMC	ELEC	478-982-4722 x252	24-001 to 24-006

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

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

GENERAL NOTES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 04-002

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			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)
	BEGINNING STA	ENDING STA	SIDE			
NON-BUFFERED STATE WATER (NBSW) A	137+60	139+92	RT	EXEMPT	NA	NA
INTERMITTENT STREAM 1	142+05	149+70	LT & RT	135 FEET OF PIPE IMPACT AND 24 FEET OF BANK ARMOR IMPACT	NA	NA
INTERMITTENT STREAM 1 BUFFER	141+61	150+07	LT & RT	ACTIVITIES WITHIN 50 FEET OF THE PROPOSED CULVERT ARE EXEMPT	NA	NA
WETLAND 2	147+29	152+29	LT	0.02 ACRE FILL AND 0.02 ACRE CLEARING	NA	NA
OPEN WATER 3	149+80	164+43	LT	NO ACTIVITY	NA	NA
OPEN WATER 3 BUFFER	149+48	164+71	LT	ACTIVITIES WITHIN 50 FEET OF THE PROPOSED CULVERT ARE EXEMPT	NA	NA
WETLAND 4	251+09 (SPUR 56)	257+83 (SPUR 56)	RT	NO ACTIVITY	NA	NA
WETLAND 5	178+37	182+33	LT & RT	NO ACTIVITY	NA	NA
WETLAND 6	170+42	182+76	LT & RT	NO ACTIVITY	NA	NA
WETLAND 6	250+89 (SPUR 56)	257+33 (SPUR 56)	LT	NO ACTIVITY	NA	NA
INTERMITTENT STREAM 7	253+01 (SPUR 56)	253+30 (SPUR 56)	LT	NO ACTIVITY	NA	NA
INTERMITTENT STREAM 7 BUFFER	252+75 (SPUR 56)	253+57 (SPUR 56)	LT	NO ACTIVITY	NA	NA
PARCEL 2 (HAZMAT, UST SITE)	110+74 (SR 56) 212+80 (SR 23)	111+00 (SR 56) 213+12 (SR 23)	RT RT	ANY ACTIVITY MUST FOLLOW HAZMAT PROTECTION MEASURES	NA	IF PETROLEUM IMPACTED SOILS ARE ENCOUNTERED, THESE MATERIALS SHOULD BE DISPOSED OF AT A PERMITTED, LINED MUNICIPAL SOLID WASTE LANDFILL.

404 PERMITS AND VARIANCES	EXPIRATION DATES (IF APPLICABLE) CONTACT GDOT OES 6 MONTHS PRIOR TO EXPIRATION, IF WORK WILL EXTEND BEYOND THIS DATE.
NPDES	WILL BE ACQUIRED FOLLOWING LETTING PROJECT
INDIVIDUAL 404 WETLANDS PERMIT	ANTICIPATED JULY 2016
STREAM BUFFER VARIANCE	ANTICIPATED AUGUST 2016

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

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

REVISION DATES

GENERAL NOTES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 04-003

GENERAL NOTES - STANDARD SIGNS

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

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.

4. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

5. ALL STRIPING, DIRECTIONAL ARROWS, ETC., SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED. ALL STRIPING SHOULD BE INSTALLED PER GDOT SPECIFICATIONS.

6. ALL STRIPING ON BRIDGE AND APPROACH SLABS SHALL BE 8" PREFORMED PLASTIC.

7. 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 PUNCHES, AS SHOWN ON THE SIGN PLATE DETAILS.

8. 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.

9. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

10. TYPE 8 POST SHALL BE INSTALLED WITH A BREAK AWAY FOOTING. SEE DETAIL FOR ADDITIONAL INFORMATION ON BREAK AWAY FOOTING DESIGN.

11. TYPE 3 (HIGH INTENSITY) REFLECTING 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.

12. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1, R5-1A).

13. 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, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

14. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL OTHER WARNING SIGNS.

15. A ½ INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

16. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL ⅝ INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

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

18. CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

19. CROSSWALK SHALL NOT BE INSTALLED AT SIGNALIZED INTERSECTIONS UNTIL PEDESTRIAN SIGNALS ARE OPERATIONAL.

GENERAL NOTES - TRAFFIC SIGNALS

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

2. 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.

3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, DETECTORS SHALL HAVE SEPERATE LEAD-INS TO THE CONTROL CABINET.

4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, 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.

5. 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 LOCATIONS(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.

6. THE CONTRACTOR WILL 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.

7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.

8. WHEN REMOVED, EXISTING EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC OPERATIONS DISTRICT SIGNAL SHOP. CONTACT THE DISTRICT SIGNAL ENGINEER 24 HOURS IN ADVANCE AT (xxx) xxx - xxxx.

9. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.

10. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.

11. THE INSTALLATIONS SHALL BE CAPABLE OF "CLOSED LOOP" ISOLATED MONITORING OVER TELEPHONE LINES FROM EXISTING CENTRAL COMPUTERS LOCATED AT BOTH THE LOCAL DOT DISTRICT OFFICE, TRAFFIC ENGINEERING SECTION, AND THE DOT OFFICE OF TRAFFIC SIGNAL ELECTRICAL FACILITIES, 935 E. CONFEDERATE AVENUE BLDG. 5 ATLANTA, GEORGIA 30316. CLOSED LOOP SYSTEM DEMONSTRATION IS REQUIRED AT BOTH CENTRAL SITES, NOTED PRIOR TO FINAL ACCEPTANCE.

12. ALL EXISTING STOP BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.

13. PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER, ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.

14. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.

15. CONTRACTOR TO PROVIDE ATTACHMENT HEIGHT, LOADING, AND ANGLE OF ATTACHMENT TO UTILITY COMPANIES PROVIDING JOINT USE POLES FOR TRAFFIC SIGNALS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINT USE POLES.

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

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

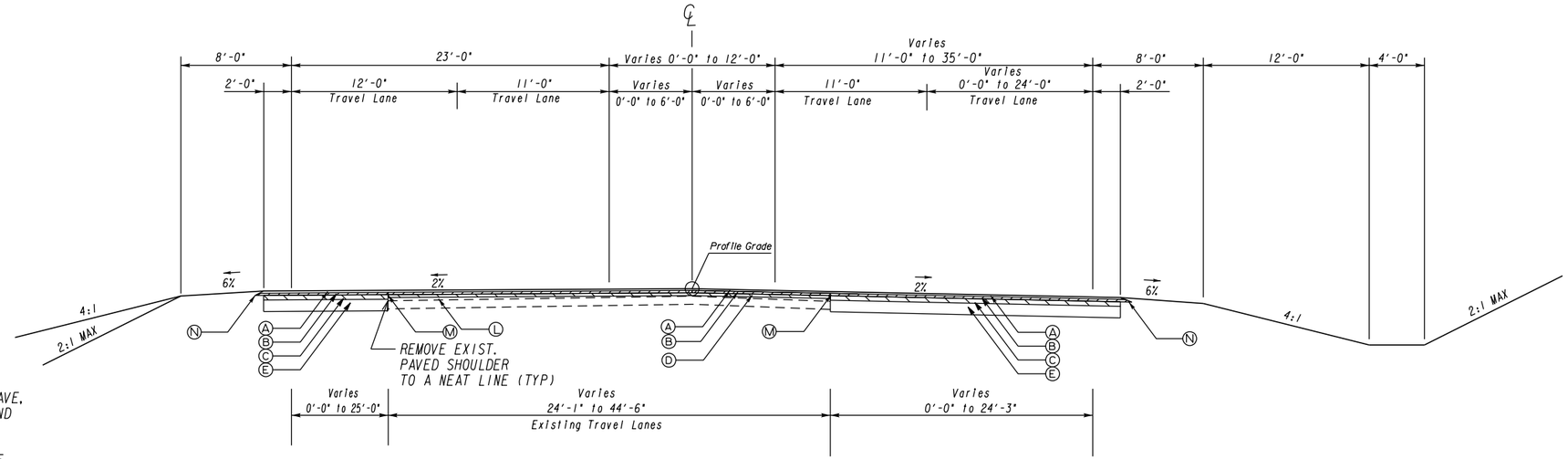
REVISION DATES

GENERAL NOTES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 04-004



(A) RECYCLED ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (165 LBS/SY)

(B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (220 LBS/SY)

(C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (550 LBS/SY)

(D) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (275 LBS/SY)

(E) GRADED AGGREGATE BASE (12.0" THICK)

(F) GRADED AGGREGATE BASE (10.0" THICK)

(L) RECYCLED ASPH CONC LEVELING, INCLUDING BITUMINOUS MATERIAL & HYDRATED LIME, AS REQUIRED

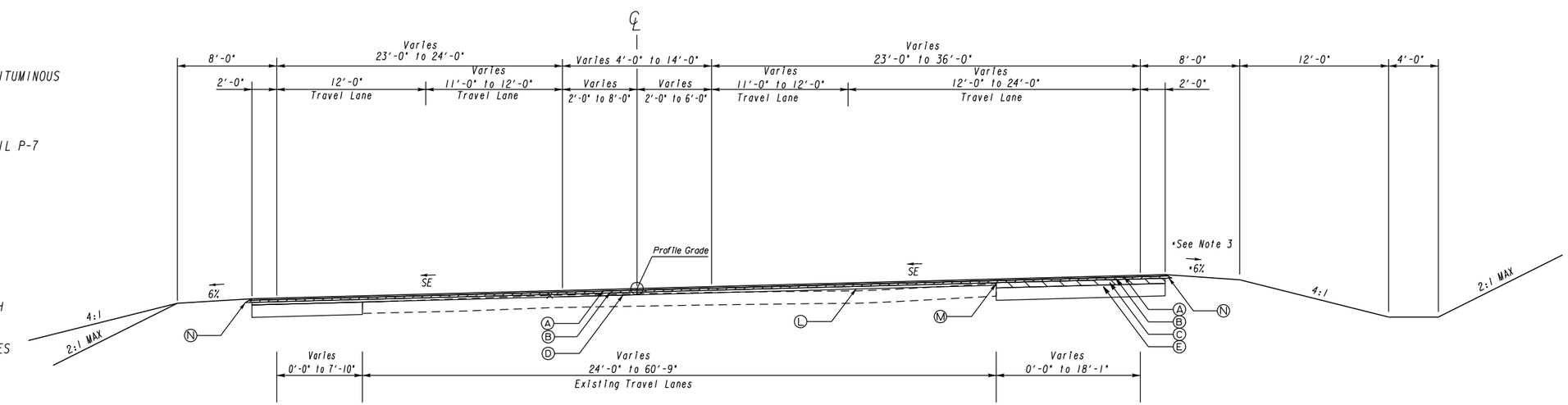
(M) PAVEMENT REINFORCEMENT FABRIC, 18" WIDTH

(N) SAFETY EDGE TREATMENT, SEE GDOT STD DETAIL P-7

TYPICAL SECTION #1

TANGENT SECTION

SR 56, STA 107+00.00 to 140+00.00
SR 56, STA 169+32.00 to 179+50.00



NOTE:
1. LOCATION OF EXISTING PAVEMENT VARIES WITH RESPECT TO THE PROPOSED CENTERLINE.
2. SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
3. SHOULDER BREAKOVER AT THE HIGH SIDE OF SUPERELEVATED ROADWAY NOT TO EXCEED 8%.

TYPICAL SECTION #2

SUPERELEVATED

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 5 10 20

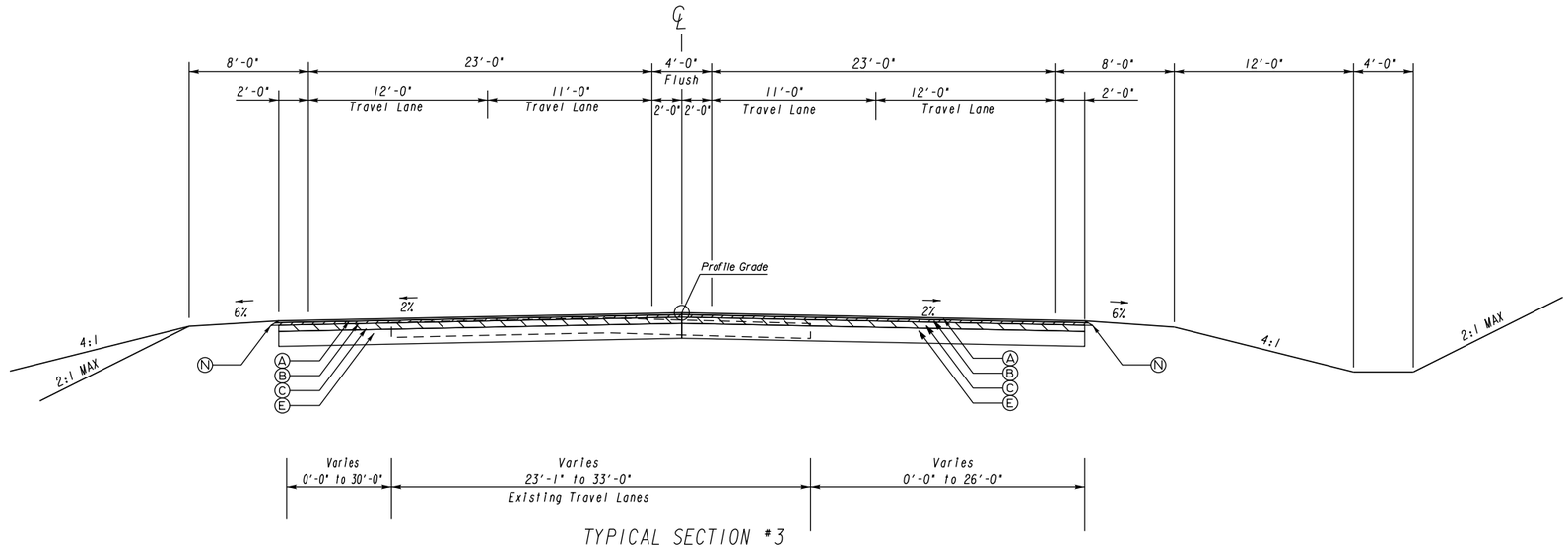
REVISION DATES

TYPICAL SECTIONS

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 05-001



TYPICAL SECTION #3

TANGENT SECTION

SR 56, STA 140+00.00 to 169+32.00

(A) RECYCLED ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (165 LBS/SY)

(B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (220 LBS/SY)

(C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (550 LBS/SY)

(D) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (275 LBS/SY)

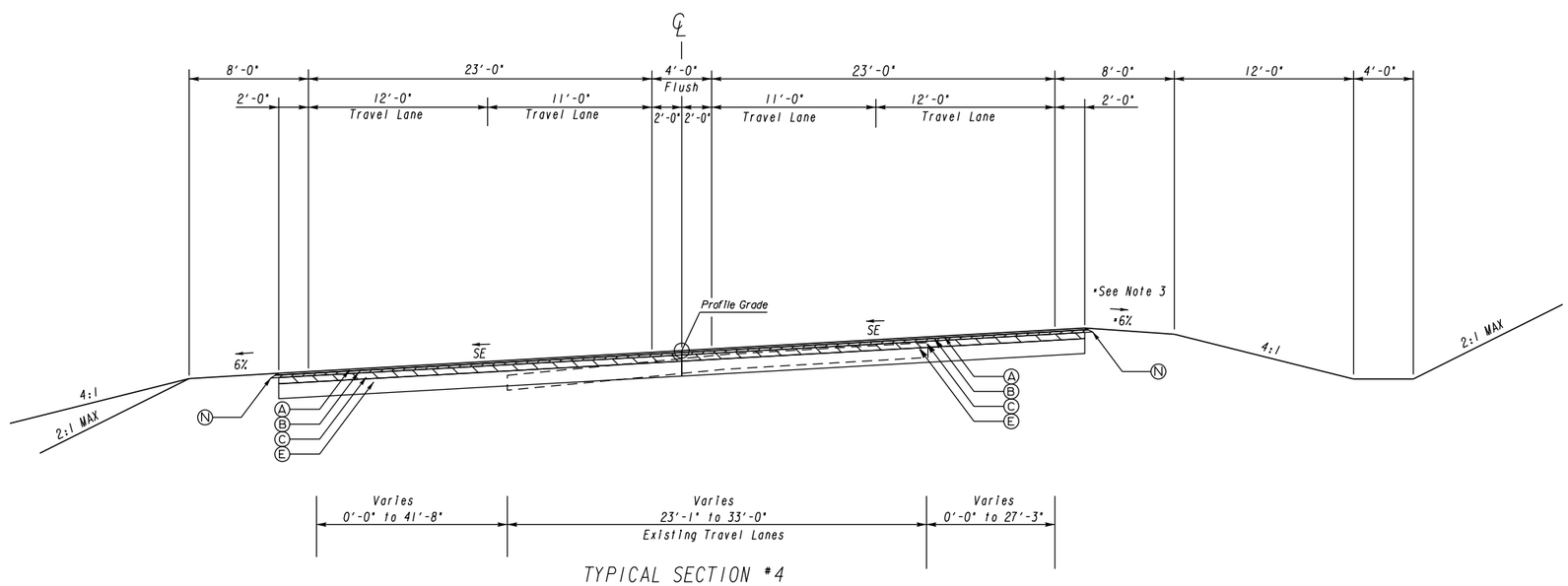
(E) GRADED AGGREGATE BASE (12.0" THICK)

(F) GRADED AGGREGATE BASE (10.0" THICK)

(L) RECYCLED ASPH CONC LEVELING, INCLUDING BITUMINOUS MATERIAL & HYDRATED LIME, AS REQUIRED

(M) PAVEMENT REINFORCEMENT FABRIC, 18" WIDTH

(N) SAFETY EDGE TREATMENT, SEE GDOT STD DETAIL P-7



TYPICAL SECTION #4

SUPERELEVATED

NOTE:
1. LOCATION OF EXISTING PAVEMENT VARIES WITH RESPECT TO THE PROPOSED CENTERLINE.
2. SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
3. SHOULDER BREAKOVER AT THE HIGH SIDE OF SUPERELEVATED ROADWAY NOT TO EXCEED 8%.

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 5 10 20

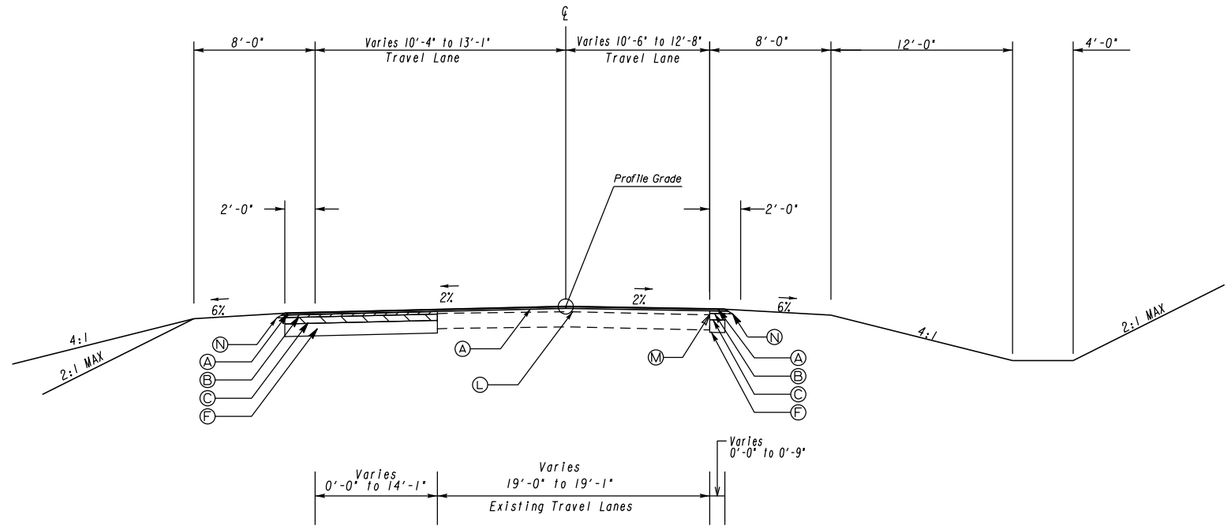
REVISION DATES

TYPICAL SECTIONS

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 05-002



TYPICAL SECTION #5

TANGENT SECTION

SR 23, COLLINS ROAD, SR 56 SPUR

(A) RECYCLED ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (165 LBS/SY)

(B) RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (220 LBS/SY)

(C) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (550 LBS/SY)

(D) RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (275 LBS/SY)

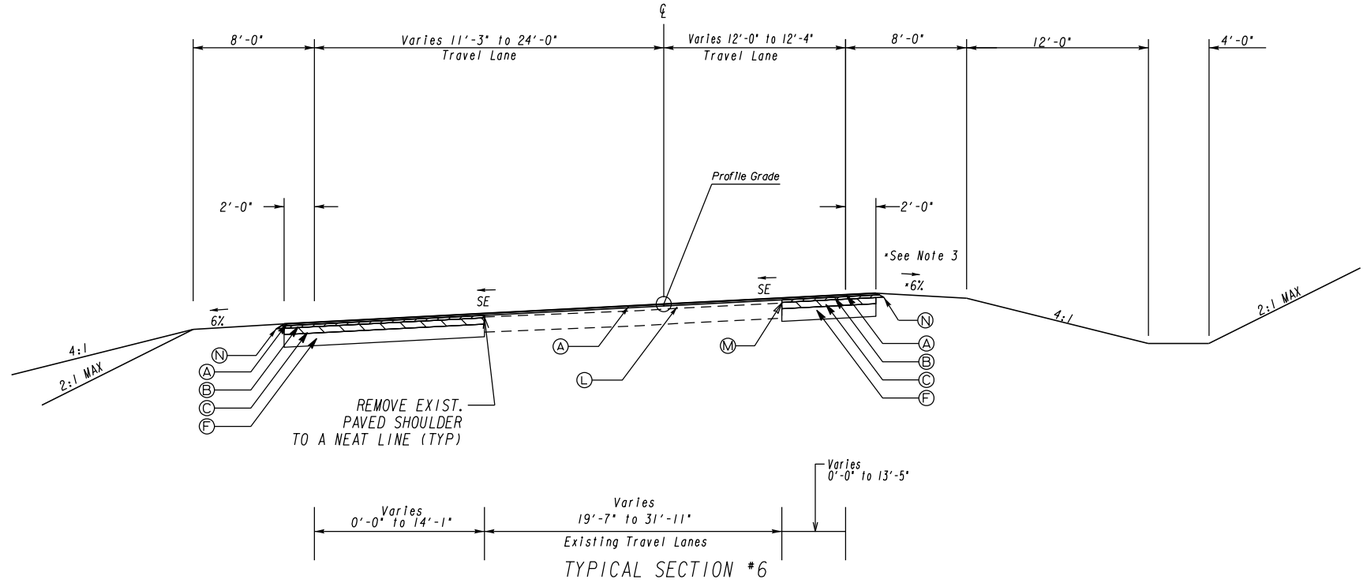
(E) GRADED AGGREGATE BASE (12.0" THICK)

(F) GRADED AGGREGATE BASE (10.0" THICK)

(L) RECYCLED ASPH CONC LEVELING, INCLUDING BITUMINOUS MATERIAL & HYDRATED LIME, AS REQUIRED

(M) PAVEMENT REINFORCEMENT FABRIC, 18" WIDTH

(N) SAFETY EDGE TREATMENT, SEE GDOT STD DETAIL P-7



TYPICAL SECTION #6

SUPERELEVATED

NOTE:

1. LOCATION OF EXISTING PAVEMENT VARIES WITH RESPECT TO THE PROPOSED CENTERLINE.
2. SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
3. SHOULDER BREAKOVER AT THE HIGH SIDE OF SUPERELEVATED ROADWAY NOT TO EXCEED 8%.

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 5 10 20

REVISION DATES

TYPICAL SECTIONS

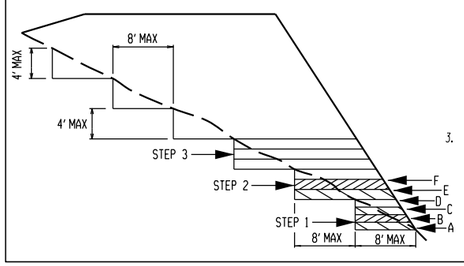
SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No.
05-003

BENCHING DETAIL

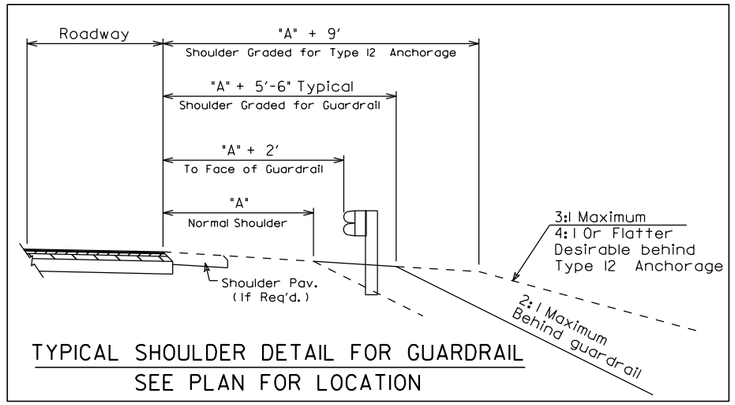
NO SCALE



1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE (SEE DIAGRAM)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT ¾ THE WIDTH OF USUAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED. THE SECOND STEP (2) IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET AND IF 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOP WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

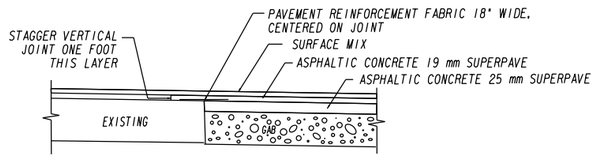
3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OR QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.



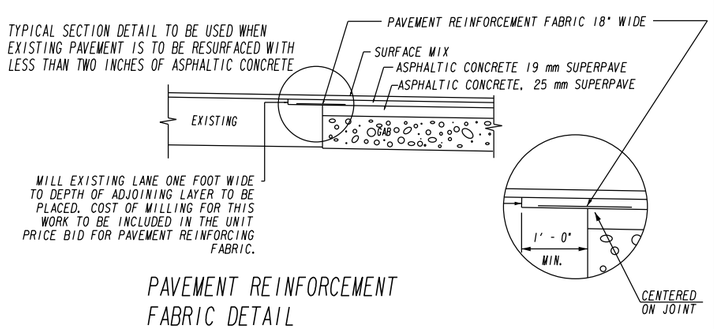
TYPICAL SHOULDER DETAIL FOR GUARDRAIL

SEE PLAN FOR LOCATION

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



PAVEMENT REINFORCEMENT FABRIC DETAIL

ALLOWABLE RANGES TABLE

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

A. NORMAL CROWN

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

B. SUPERELEVATION RATE

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

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

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

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

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

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

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

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 5 10 20

REVISION DATES

TYPICAL SECTIONS

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 05-004

SUMMARY OF QUANTITIES

ROADWAY PAVING ITEMS									
LOCATION	GRADED AGGREGATE BASE COURSE, 10 IN. INCL MATL	GRADED AGGREGATE BASE COURSE, 12 IN. INCL MATL	RECYCLED ASPHALTIC CONCRETE 12.5mm SUPERPAVE, GP2 ONLY, INCLUDING BITUM. MAT'L AND H. LIME	RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUM. MAT'L AND H. LIME	RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUM. MAT'L AND H. LIME	BITUMINOUS TACK COAT	MILL ASPHALT CONC PVMT, VARIABLE DEPTH	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	RECYCLED ASPHALTIC CONCRETE LEVELING, INCL MAT'L AND H. LIME
	SQ YD	SQ YD	TON	TON	TON	GAL	SQ YD	LF	TON
SR56		27700	3803	5052	10124	11023	266	7788	3825
SR23	1057		199	116	291	415	65	895	181
COLLINS ROAD	268		47	30	74	100	54	303	55
SR56 SPUR	1223		209	135	336	448	57	1087	187
TEMP PVMT AS DIRECTED BY ENGINEER	220					600			1379
TOTAL	2769	27700	4258	5333	10825	12587	442	10073	5627

GUARDRAIL QUANTITIES

GA. STDS. 4010, 4012d, 4040

GUARDRAIL "W" BEAM		ANCHORAGES	
LOCATION & SIDE	LIN FT	TP 1	TP 12
150+00.00 LT	975	1	1
TOTALS	975	1	1

NOTE: THE ACTUAL BEGINNING AND ENDING OF GUARDRAIL MAY BE ADJUSTED TO MEET FIELD CONDITION, AS DIRECTED BY THE ENGINEER.

INDENTATION RUMBLE STRIPS GROUND IN PLACE (CONTINUOUS)

LOCATION	SIDE	4'
STA. 129+30 TO 173+50	CENTER	0.8
TOTAL		0.8 GLM

WOVEN WIRE FENCE - 4'

TOTAL 100 LF

AGGREGATE SURFACE COURSE

TOTAL 100 TONS

FOR USE IN INCLEMENT WEATHER TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC ALONG ROADWAY CONSTRUCTION AND TO PERMIT INGRESS & EGRESS AT DRIVES. WHEN USED FOR THIS PURPOSE, SECTION 318 OF GEORGIA STANDARD SPECIFICATIONS IS MODIFIED TO PERMIT TRUCK DUMPING ON UNPAVED AND MUDDY SUBGRADE.

THE CONTRACTOR WILL HAVE THE CHOICE OF THE FOLLOWING MATERIALS.

GRADED AGGREGATE - ART. 815.01
COARSE AGGREGATE - SIZE - 467 - ART. 800.01
STABILIZER AGGREGATE - TYPE 1 OR 2 - SECT. 803

ALL MATERIALS TO BE USED AS DIRECTED BY THE ENGINEER.

DOWELED CONC. MEDIAN, 6 IN TYPE 7 FACE

TOTAL 30 SY

GRADING COMPLETE

TOTAL LUMP SUM

RESET GATE, WOVEN WIRE 4'

TOTAL 1 EA

CONCRETE RIGHT-OF-WAY MARKERS

TOTAL 55 EA

TRAFFIC CONTROL

PROJECT LUMP SUM

FENCE QUANTITIES

CHAIN LINK 100 LF

RESET GATE, CHAIN LINK

TOTAL 1 EA

Columbia Engineering
LAND PLANNERS · CIVIL ENGINEERS · LANDSCAPE ARCHITECTS · SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-001

SUMMARY OF QUANTITIES

SUMMARY OF DRIVEWAY QUANTITIES

LOCATION	WIDTH	COMMERCIAL CONC DRIVE 8" THICK	RESIDENTIAL CONC DRIVE 6" THICK	1½" ASPH CONC. 12.5mm	2" ASPH CONC. 19mm	6 IN. GRADED AGGREGATE
STATION & SIDE	FEET	SQ. YD.	SQ. YD.	TON	TON	TON
109+00.00 LT	14			4.9	6.5	19.5
110+24.00 RT	32	232				
111+75.00 LT	14			5.3	7.1	21.1
114+00.00 RT	24			9.6	12.8	38.3
116+78.00 LT	28	182				
124+46.00 RT	14		80			
128+57.00 RT	14			7.5	10.0	29.8
128+98.00 LT	14			4.5	6.1	18.2
130+72.00 RT	14			6.0	7.9	23.8
149+63.00 RT	24	115				
154+15.00 RT	14		57			
166+36.00 LT	14			3.2	4.3	12.9
212+88.00 RT	40	125				
214+96.00 LT	14			6.0	8.0	24.1
253+05.00 RT	12			3.1	4.2	12.5
251+92.00 RT	16			3.6	4.9	14.5
253+57.00 RT	18			4.0	5.4	16.2
	TOTAL	654	137	58	78	231

TEMPORARY STAGING ITEMS

DESCRIPTION	UNIT	SUBTOTAL	AS DIRECTED BY ENGINEER	TOTAL
TEMPORARY BARRIER WALL, METHOD 1	LF		1000	1000
CHANGEABLE MESSAGE SIGN, PORTABLE, TP 3	EA		2	2
TEMPORARY IMPACT ATTENUATOR - ARRAY TYPE S	EA		1	1
*TEMPORARY PIPES FOR STAGING, 24"	LF	63		63
*TEMPORARY DROP INLET FOR STAGING	EA	1		1
*TEMPORARY FES FOR STAGING, 24"	EA	1		1

* NOTE: ALL COSTS ASSOCIATED WITH CONSTRUCTION AND REMOVAL FOR TEMPORARY DRIANAGE STRUCTURES SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR THE PROJECT.

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-002

SUMMARY OF QUANTITIES

SUMMARY OF DRAINAGE QUANTITIES

DRNG STRUCTURE NUMBER	LOCATION			LINEAR FEET (LF)				STRUCTURE TYPE							OUTLET PROTECTION	
												GA DETAIL D-5				
	STATION	OFFSET	SIDE	18"	24"	36"	48"	TYP II FOUNDATION BACKFILL MAT'L (CY)	FES GA STD. 1120 (EA)	SES GA STD. 1122 (EA)	INLET/OUTLET HEADWALL GA STD. 1125 CLASS "A" CONC INCL REINF STEEL (CY)	CLASS "A" CONC INCL REINF STEEL (CY)	SAFETY GRATE TYP I (SF)	CLASS "A" CONCRETE FOR GA STD 1125 INLET/OUTLET (CY)	WOVEN PLASTIC FILTER FABRIC (SY)	RIP RAP TYPE 3 - 12" (SY)
A-1	111+58.17	72.48	RT			110		715		1/36"/6:1						
A-0	112+67.92	65.08	RT							1/36"/4:1						
B-1	112+29.26	47.31	LT	141				493.5				2.14	28			
B-0	112+32.19	49.31	RT									2.14	28			
C-1	137+56.19	43.93	LT		120			530.4				1.93	23.75			
C-0	138+14.40	60.24	RT						1/24"/4:1							
D-1	146+02.18	67.23	RT				612	5336.64						11.78		
D-0	148+50.38	65.85	LT											12.28	75.5	75.5
E-1	152+49.55	59.15	RT				107	933.04	1/48"/4:1							
E-0	152+47.10	46.15	LT								4.8			4.8	46.7	46.7
			TOTALS:	**141**	**120**	**110**	**719**	**8008.58**	**1/24"/4:1 1/48"/4:1**	**1/36"/6:1 1/36"/4:1**	**4.8**	**6.21**	**79.75**	**28.86**	**122.2**	**122.2**

SIDE DRAIN PIPE

STATION	SIDE	LIN. FT.					SAFETY END SECTION-EACH STD. 1122				
		15"	18"	24"	30"	36"	15"	18"	24"	30"	36"
109+00.00	LT		38					2			
110+24.00	RT			62					2		
111+75.00	LT		43					2			
114+00.00	RT					40					2
116+78.00	LT		69					2			
128+98.00	LT		42					2			
130+72.00	RT		38					2			
154+15.00	RT		39					2			
212+88.00	RT		65					2			
232+05.00	RT					26					2
214+96.00	RT		38					2			
TOTALS			373	62		66		16	2		4

FLOWABLE FILL

AS DIRECTED BY ENGINEER 20 CY

UNDERDRAIN PIPE INCL 6" AGGREGATE

AS DIRECTED BY ENGINEER 100 LF

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-003

SUMMARY OF QUANTITIES

EROSION CONTROL ITEMS				
DESCRIPTION	UNIT	SUBTOTAL	AS DIRECTED BY ENGINEER	TOTAL
TEMPORARY GRASSING	AC	6		6
MULCH	TN	206		206
CONSTRUCTION EXIT	EA	4		4
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	1		1
MAINTENANCE OF INLET SEDIMENT TRAP	EA	1		1
MAINT. OF TEMP. SILT FENCE TYPE "C"	LF	4850		4850
MAINT. OF CHECK DAMS - ALL TYPES	LF	240		240
MAINT. OF CONSTRUCTION EXIT	EA	4		4
WATER QUALITY MONITORING AND SAMPLING	EA	2		2
WATER QUALITY INSPECTION	MO	24		24
TEMPORARY SILT FENCE TYPE "C"	LF	9595	105	9700
PERMANENT GRASSING	AC	12		12
AGRICULTURE LIME	TN	36		36
FERTILIZER MIXED GRADE	TN	11		11
FERTILIZER NITROGEN CONTENT	LB	600		600
EROSION CONTROL MATS, SLOPES	SQ YD	18574	26	18600
CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	EA	4		4
CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	13		13
MAINTENANCE OF SILT CONTROL GATE, TP2	EA	4		4
MAINTENANCE OF SILT CONTROL GATE, TP3	EA	13		13
BARRIER FENCE (ORANGE)	LF	2794	106	2900
TEMPORARY SILT FENCE TYPE "A"	LF	12988	112	13100
MAINT. OF TEMP. SILT FENCE TYPE "A"	LF	6550		6550
MAINT. OF ROCK FILTER DAMS	EA	114		114
CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE "C" SILT FENCE	LF	490		490
CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE	EA	229		229
CH - TURF REINFORCING MATS TP 2	SQ YD	2924		2924
CH - TURF REINFORCING MATS TP 3	SQ YD	739		739
CH - TURF REINFORCING MATS TP 4	SQ YD	212		212

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-004

SUMMARY OF QUANTITIES

MARKING QUANTITIES			
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	27
653-0150	THERMOPLASTIC PVMT MARKING, ARROW, TP 5	EA	4
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	18325
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	22824
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	130
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	663
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	14075
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	1645
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	517
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	961
654-1001	RAISED PVMT MARKERS TP 1	EA	370
654-1003	RAISED PVMT MARKERS TP 3	EA	270
654-1010	RAISED PVMT MARKERS TP 10	EA	39

MILEPOST, 636-5100		
LOCATION	UNIT	QUANTITY
MILE 35, SR 56 146+58 RT	EA	2
TOTAL		2

REMOVE & RESET HIGHWAY SIGNS		
LOCATION	UNIT	QUANTITY
SR 56 171+17 LT: WELCOME TO BURKE COUNTY	EA	1
TOTAL		1

SUMMARY OF OVERHEAD SIGN QUANTITIES (EXCLUDING STREET NAME SIGNS)

STATION	INSTL NO.	HIGHWAY SIGNS			
		SIGN CODE	TP 1 MATL, REFL SHEETING TP 11		
			SIZE	QTY	SQ FT
SR 56					
108+00 OH	1	M-SPECIAL #1	30X36	1	7.50
		M-SPECIAL #2	30x36	1	7.50
		M-SPECIAL #3	30x36	1	7.50
		R3-5R	30x36	1	7.50
114+35 OH	2	M-SPECIAL #1	30x36	1	7.50
		M-SPECIAL #2	30X36	1	7.50
		M-SPECIAL #3	30x36	1	7.50
		R3-5L	30x36	1	7.50
		W559-2	30x36	1	7.50
173+75 OH	3	M-SPECIAL #1	30x36	1	7.50
		M-SPECIAL #2	30x36	1	7.50
		M-SPECIAL #4	30x36	1	7.50
		R3-5R	30x36	1	7.50
179+45 OH	4	M-SPECIAL #1	30X36	1	7.50
		M-SPECIAL #2	30x36	1	7.50
		M-SPECIAL #4	30x36	1	7.50
		R3-5	30x36	1	7.50
TOTAL					127.50

MISC. SIGNING QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY
639-2002	STEEL WIRE STRAND CABLE, ⅜"	LF	1000
639-4003	STRAIN POLE, TYPE III	EA	8

SIGNAL QUANTITIES			
636-1045	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP II	SF	42
639-4004	STRAIN POLE, TP IV *	EA	4
647-1000	TRAFFIC SIGNAL INSTALLATION NO 1	LS	LS
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	50
682-9950	DIRECTIONAL BORE, 3 IN	LF	50
937-6020	INTERSECTION VIDEO DETECTION ASSEMBLY, TYPE A	LS	LS

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-005

SUMMARY OF QUANTITIES

SUMMARY OF SIGN QUANTITIES

STATION	INSTL NO.	HIGHWAY SIGNS													SQUARE TUBE POST									BREAKAWAY SIGN SUPPORT (EACH)
		SIGN CODE	TP 1 MATL, REFL SHEETING TP 3			TP 2 MATL, REFL SHEETING TP 3			TP 1 MATL, REFL SHEETING TP 11			TP 2 MATL, REFL SHEETING TP 11			TYPE 7			TYPE 8			TYPE 9			
			SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	LENGTH (FEET)	QTY	TOTAL LENGTH	LENGTH (FEET)	QTY	TOTAL LENGTH	LENGTH (FEET)	QTY	TOTAL LENGTH	
SR 135																								
107+44 RT	1	D1-3				60x42	1	17.50										15	2	30				2
107+63 LT	2	D2-2				60x30	1	12.50										14	2	28				2
108+53 LT	3	W9-2							36x36	1	9.00										16	1	16	
109+73 RT	4	M1-5	24x24	1	4.00													15	2	30				2
		M1-5	24x24	1	4.00																			
		M6-1R	21x15	1	2.19																			
		M6-3	21x15	1	2.19																			
109+82 LT	5	R2-1				36x48	1	12.00							15	2	30							
110+90 LT	6	M1-5	24x24	1	4.00										14	1	14							
		M3-3	24x12	1	2.00																			
112+41 LT	7	M1-5	24x24	1	4.00													15	2	30				2
		M1-5	24x24	1	4.00																			
		M6-1L	21x15	1	2.19																			
		M6-3	21x15	1	2.19																			
112+50 RT	8	R1-1							36 OCT	1	7.45				14	1	14							1
112+54 LT	9	M1-5	24x24	1	4.00										14	1	14							
		M1-5	24x24	1	4.00										16	1	16							
		M4-6	24x12	1	2.00																			
		M6-6R	21x15	1	2.19																			
112+61 LT	10	W1-7							48x24	1	8.00				13	1	13							
		OM-3L							12x36	1	3.00				14	2	28							
		OM-3R							12x36	1	3.00													
112+72 RT	11	R1-2							36 TRI	1	3.90				14	1	14							
113+74 RT	12	M1-5	24x24	1	4.00										14	1	14							
		M3-1	24x12	1	2.00																			
114+74 RT	13	R3-9b	24x36	1	6.00										15	1	15							
		R3-9cP	30x12	1	2.50																			
114+74 LT	14	R3-9b	24x36	1	6.00										15	1	15							
		R3-9dP	30x12	1	2.50																			
117+13 RT	15	W2-1R							36x36	1	9.00							18	1	18				1
		W16-8P							48x12	1	4.00													
119+09 LT	16	D1-3				60x42	1	17.50										15	2	30				2
120+64 LT	17	M1-5	24x24	1	4.00										15	1	15							
		M2-1	21x15	1	2.19																			
121+64 LT	18	R553-1	24x30	1	5.00										14	1	14							
122+64 LT	19	R3-9b	24x36	1	6.00										15	1	15							
		R3-9cP	30x12	1	2.50																			
122+64 RT	20	R3-9b	24x36	1	6.00										15	1								
		R3-9dP	30x12	1	2.50																			
123+87 RT	21	R1-2							36 TRI	1	3.90				14	1	14							
125+13 RT	22	R2-1				36x48	1	12.00							15	2	30							
126+88 RT	23	W7-6							36x36	1	9.00							17	1	17				1
		W13-1P							24x24	1	4.00													
129+31 RT	24	W7-1a							36x36	1	9.00										16	1	16	
130+00 LT	25	W3-3							36x36	1	9.00							18	1	18				1
		W16-8P							48x12	1	4.00													
140+22 RT	26	W1-2L							36x36	1	9.00										16	1	16	
145+60 LT	27	R4-5				36x48	1	12.00							15	2	30							
145+99 RT	28	W1-8R							24x30	1	5.00				11	1	11							
146+58 RT	29	D10-2	12x36	2	6.00										13	1	13							
147+53 RT	30	W1-8R							24x30	2	10.00				11	1	11							
149+10 RT	31	W1-8R							24x30	2	10.00				11	1	11							
150+67 RT	32	W1-8R							24x30	2	10.00				11	1	11							
151+56 LT	33	R16-6	24x30	1	5.00										14	1	14							
152+23 RT	34	W1-8R							24x30	2	10.00				11	1	11							
157+68 LT	35	W1-2R							36x36	1	9.00										16	1	16	
SUBTOTAL, THIS DRAWING ONLY					105.13			83.50			149.25			0.00			387			201			64	13

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-006

SUMMARY OF QUANTITIES

SUMMARY OF SIGN QUANTITIES

	STATION	INSTL NO.	HIGHWAY SIGNS													SQUARE TUBE POST									BREAKAWAY SIGN SUPPORT (EACH)
			SIGN CODE	TP 1 MATL, REFL SHEETING TP 3			TP 2 MATL, REFL SHEETING TP 3			TP 1 MATL, REFL SHEETING TP 11			TP 2 MATL, REFL SHEETING TP 11			TYPE 7			TYPE 8			TYPE 9			
				SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	SIZE	QTY	SQ FT	LENGTH (FEET)	QTY	TOTAL LENGTH	LENGTH (FEET)	QTY	TOTAL LENGTH	LENGTH (FEET)	QTY	TOTAL LENGTH	
	SR 56 CONTINUED																								
	157+68 RT	36	W7-6							36x36	1	9.00							17	1	17				1
			W13-1P							24x24	1	4.00													
	158+85 LT	37	R560-1	24x30	1	5.00										14	1	14							
	163+90 RT	38	W7-1a							36x36	1	9.00										16	1	16	
	164+86 LT	39	R553-1	24x30	1	5.00										14	1	14							
	168+78 LT	40	W7-6							36x36	1	9.00							17	1	17				1
			W13-1P							24x24	1	4.00													
	170+75 RT	41	M1-5	24x24	1	4.00																			
			M2-1	21x15	1	2.19													18	1	18				
	171+75 RT	42	W3-3							36x36	1	9.00										16	1	16	
	172+24 LT	43	R2-1				36x48	1	12.00							15	2	30							
	172+82 RT	44	M1-5	24x24	1	4.00													15	1	15				
			M3-2	24x12	1	2.00																			
			M6-1R	21x15	1	2.19																			
	173+31 LT	45	R4-5				36x48	1	12.00							15	2	30							
	174+38 LT	46	D2-2				60x30	1	12.50										14	2	28				2
	176+10 LT	47	M1-5	24x24	1	4.00										14	1	14							
			M3-3	24x12	1	2.00																			
	177+42 LT	48	W1-7							48x24	1	8.00				13	1	13							
			OM-3L							12x36	1	3.00				14	2	28							
			OM-3R							12x36	1	3.00													
	177+73 RT	49	R1-2							36 TRI	1	3.90				14	1	14							
	178+00 LT	50	M1-5	24x24	1	4.00													15	1	15				
			M3-2	24x12	1	2.00																			
			M6-1L	21x15	1	2.19																			
	178+02 RT	51	W8-13							36x36	1	9.00										16	1	16	
	178+76 RT	52	M1-5	24x24	1	4.00										14	1	14							
			M3-1	24x12	1	2.00																			
	179+50 RT	53	R3-9b	24x36	1	6.00										15	1	15							
			R3-9cP	30x12	1	2.50																			
	179+50 LT	54	R3-9b	24x36	1	6.00										15	1	15							
			R3-9dP	30x12	1	2.50																			
	180+50 RT	55	R2-1				36x48	1	12.00							15	2	30							
SR 23	211+05 RT	56	R1-2							36 TRI	1	3.90				14	1	14							
SR 23	212+00 RT	57	M1-5	24x24	1	4.00										14	1	14							
SR 23			M3-3	24x12	1	2.00																			
SR 23	213+74 LT	58	D1-2				60x30	1	12.50										14	2	28				2
SR 23	213+81 RT	59	D2-2				48x30	1	10.00										14	2	28				2
SR 23	215+29 RT	60	R2-1	24x30	1	5.00										14	1	14							
COLLINS RD	230+51 LT	61	R1-1							36 OCT	1	7.45							14	1	14				1
COLLINS RD	231+34 RT	62	R2-1	24x30	1	5.00										14	1	14							
SR 56 SPUR	250+86 RT	63	R1-2							36 TRI	1	3.90				14	1	14							
SR 56 SPUR	251+40 RT	64	M1-5	24x24	1	4.00										14	1	14							
SR 56 SPUR			M3-2	24x12	1	2.00																			
SR 56 SPUR	251+56 LT	65	M1-5	24x24	1	4.00										14	1	14							
SR 56 SPUR			M4-6	24x12	1	2.00																			
SR 56 SPUR	252+51 RT	66	W1-4L							36x36	1	9.00										16	1	16	
SR 56 SPUR	253+73 LT	67	M1-5	24x24	2	8.00										15	2	30							
SR 56 SPUR			M3-1	24x36	1	6.00																			
SR 56 SPUR			M3-3	30x12	1	2.50																			
SR 56 SPUR			M6-1L	21x15	2	4.38																			
SR 56 SPUR	255+64 RT	68	R2-1	24x30	1	5.00										14	1	14							
SR 56 SPUR	255+64 LT	69	W3-3							36x36	1	9.00										16	1	16	
	SUBTOTAL, THIS DRAWING ONLY					115.44			71.00			104.15			0.00			373			180			80	9
	SUBTOTAL, DRAWING 6-008					105.13			83.50			149.25			0.00			387			201			64	13
	GRAND TOTAL					220.57			154.50			253.40			0.00			760			381			144	22

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

SUMMARY QUANTITIES

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 06-007

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	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXX	XXX

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

QUANTITIES (AMENDMENT)

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No.
07-001

QUANTITIES REQUIRED ON CONSTRUCTION

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

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

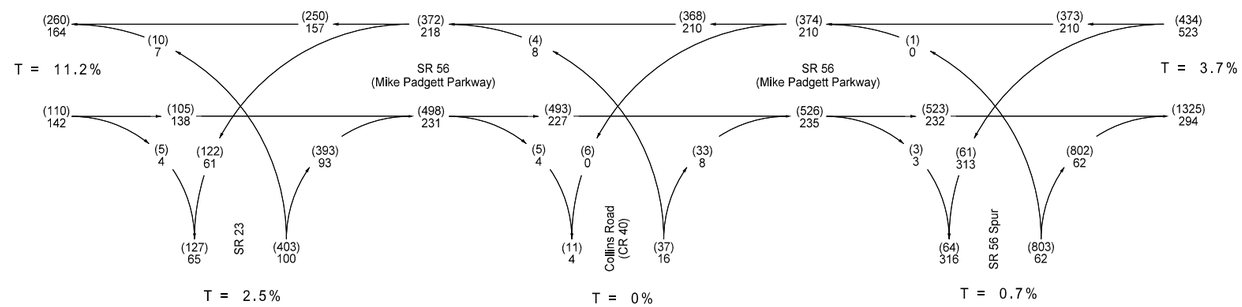
QUANTITIES (CONSTRUCTION)

SR 56 FROM BURKE COUNTY LINE TO SR 23

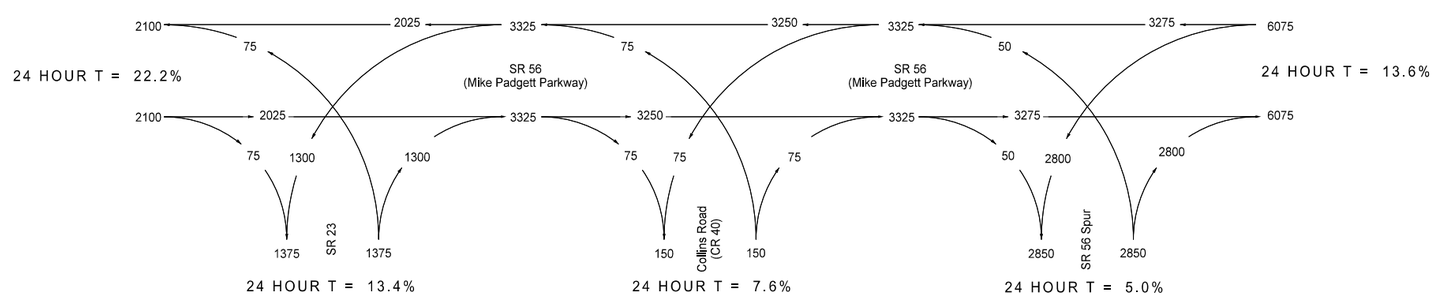
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
08-001

EXISTING 2015 DHV
AM = 000
PM = (000)



EXISTING 2015 ADT



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

REVISION DATES

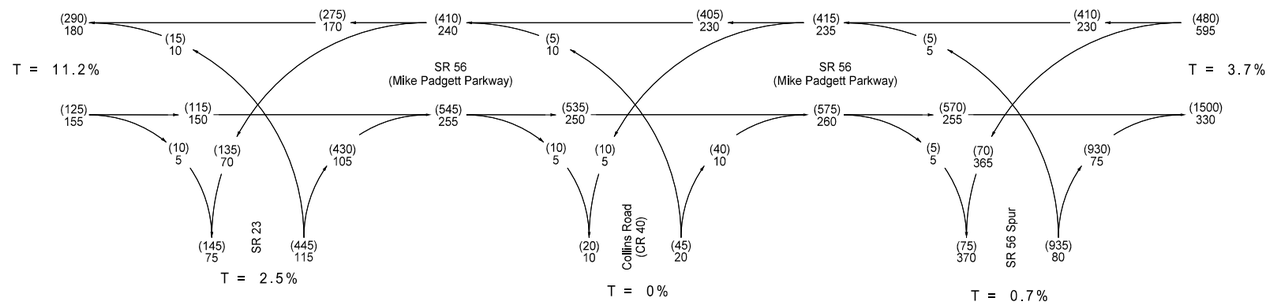
TRAFFIC DIAGRAM

SR 56 FROM COUNTY LINE TO SR 23

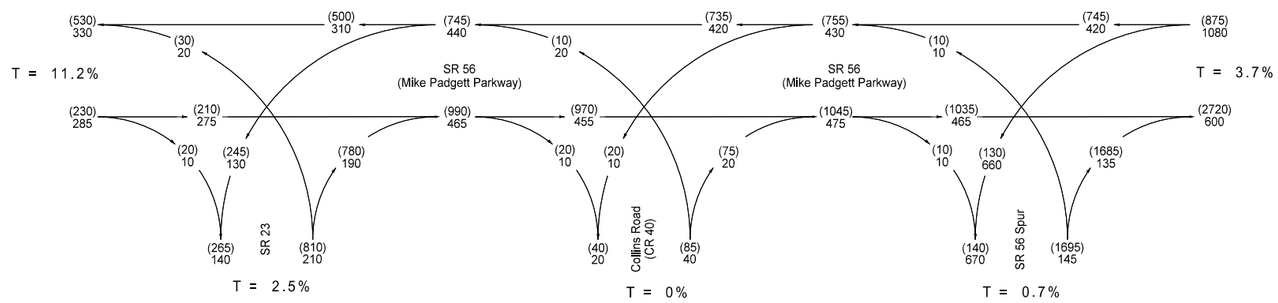
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 10-001

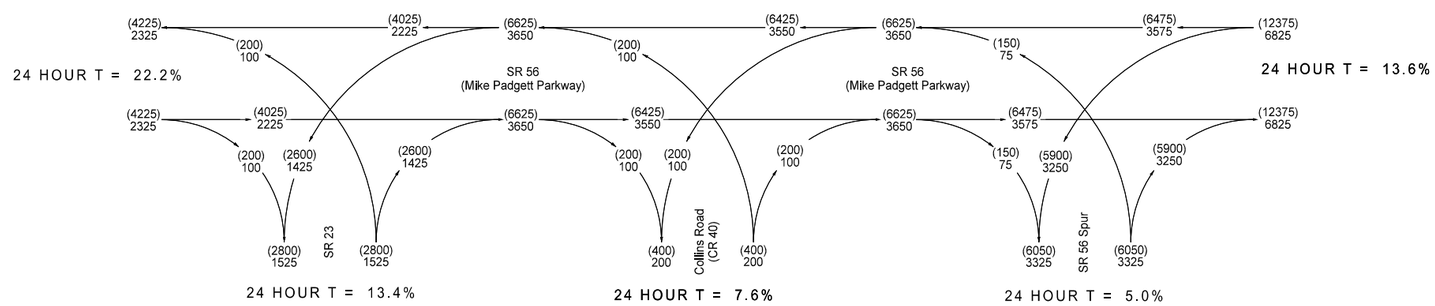
2018 DHV
AM = 000
PM = (000)



2038 DHV
AM = 000
PM = (000)



ADT
2018 ADT = 000
2038 ADT = (000)



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

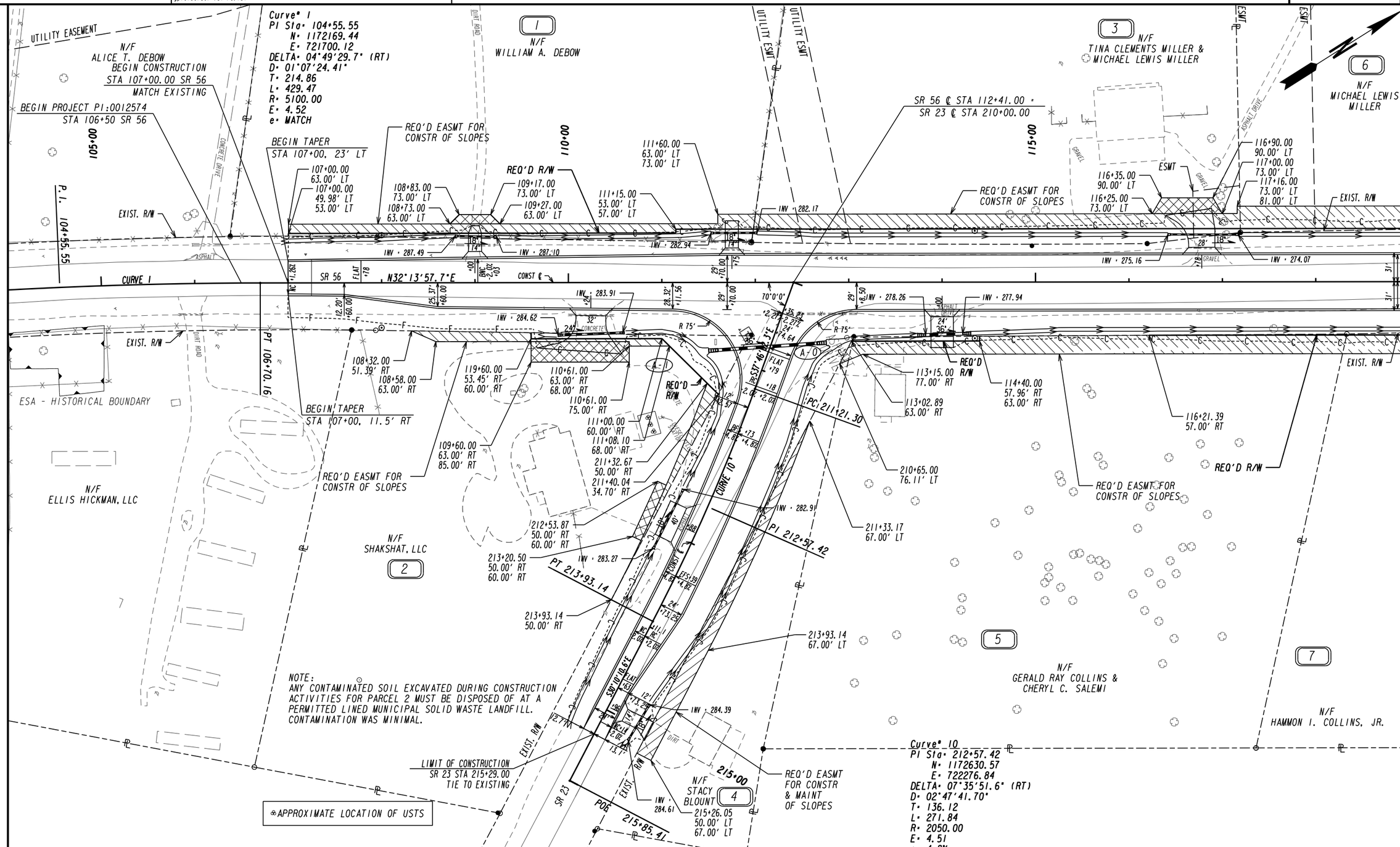
REVISION DATES

TRAFFIC DIAGRAM

SR 56 FROM COUNTY LINE TO SR 23

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

DRAWING No. 10-002



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)	

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

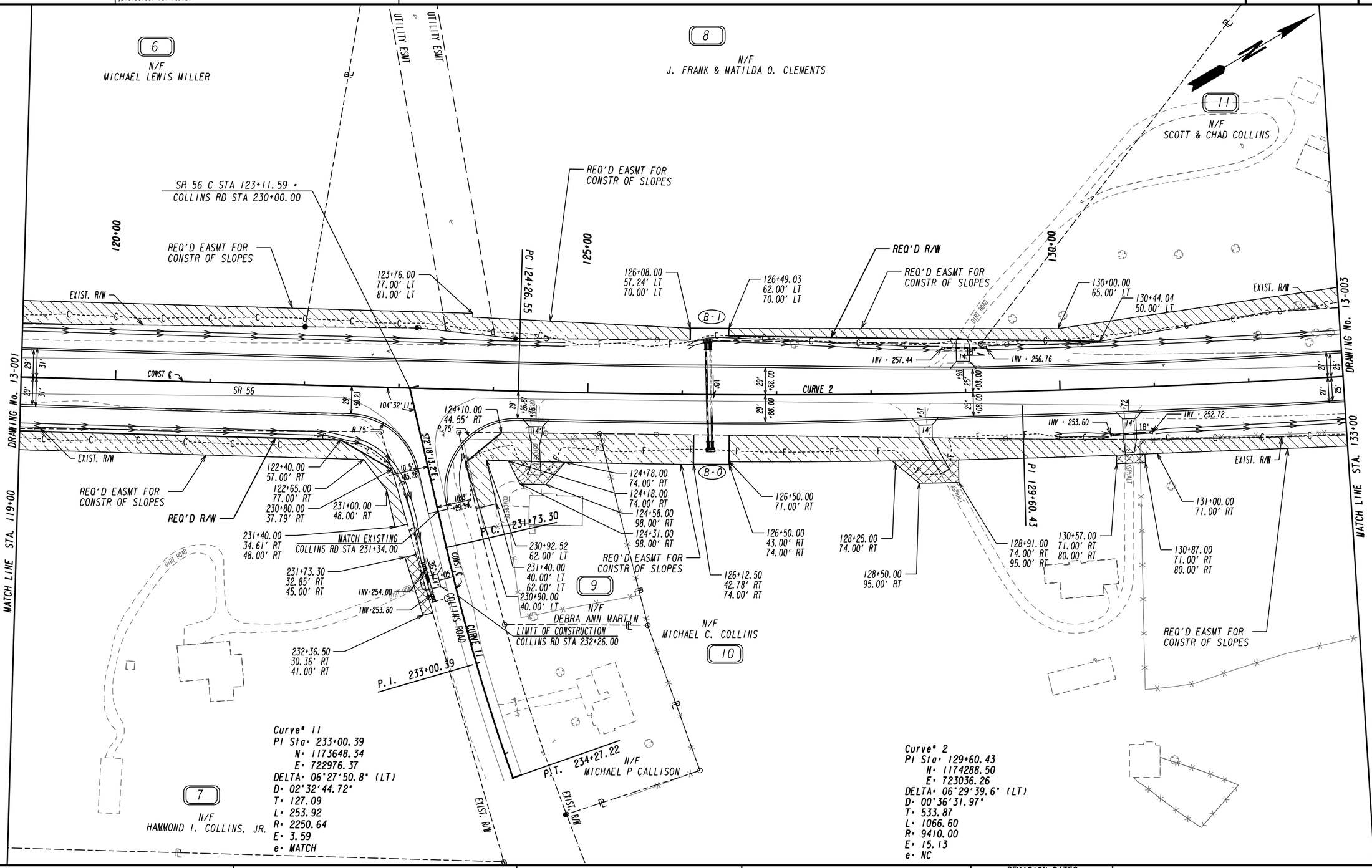
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-001



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)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

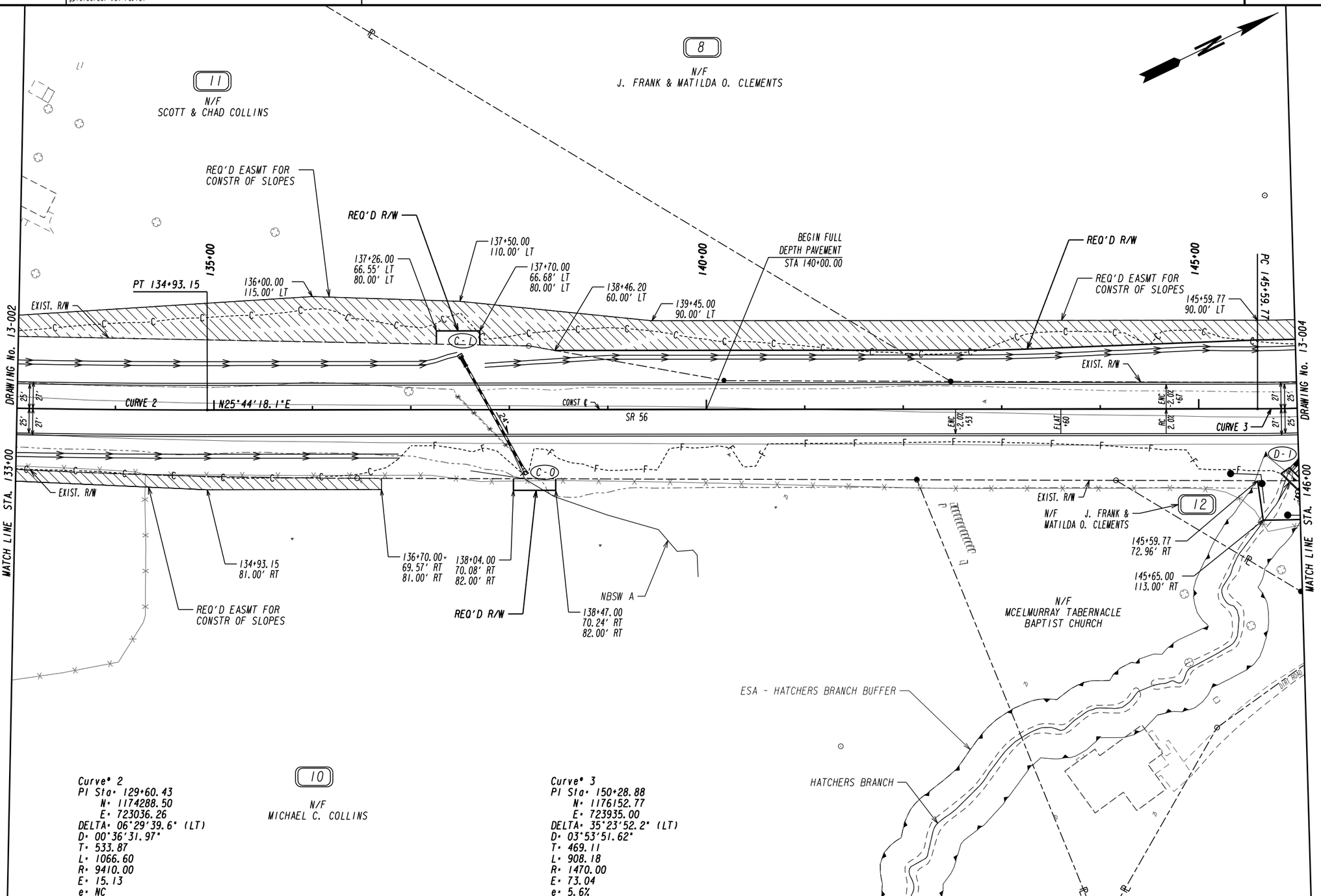
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-002



Curve# 2
PI Sta= 129+60.43
N= 1174288.50
E= 723036.26
DELTA= 06°29'39.6" (LT)
D= 00°36'31.97"
T= 533.87
L= 1066.60
R= 9410.00
E= 15.13
e= NC

Curve# 3
PI Sta= 150+28.88
N= 1176152.77
E= 723935.00
DELTA= 35°23'52.2" (LT)
D= 03°53'51.62"
T= 469.11
L= 908.18
R= 1470.00
E= 73.04
e= 5.6%

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)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

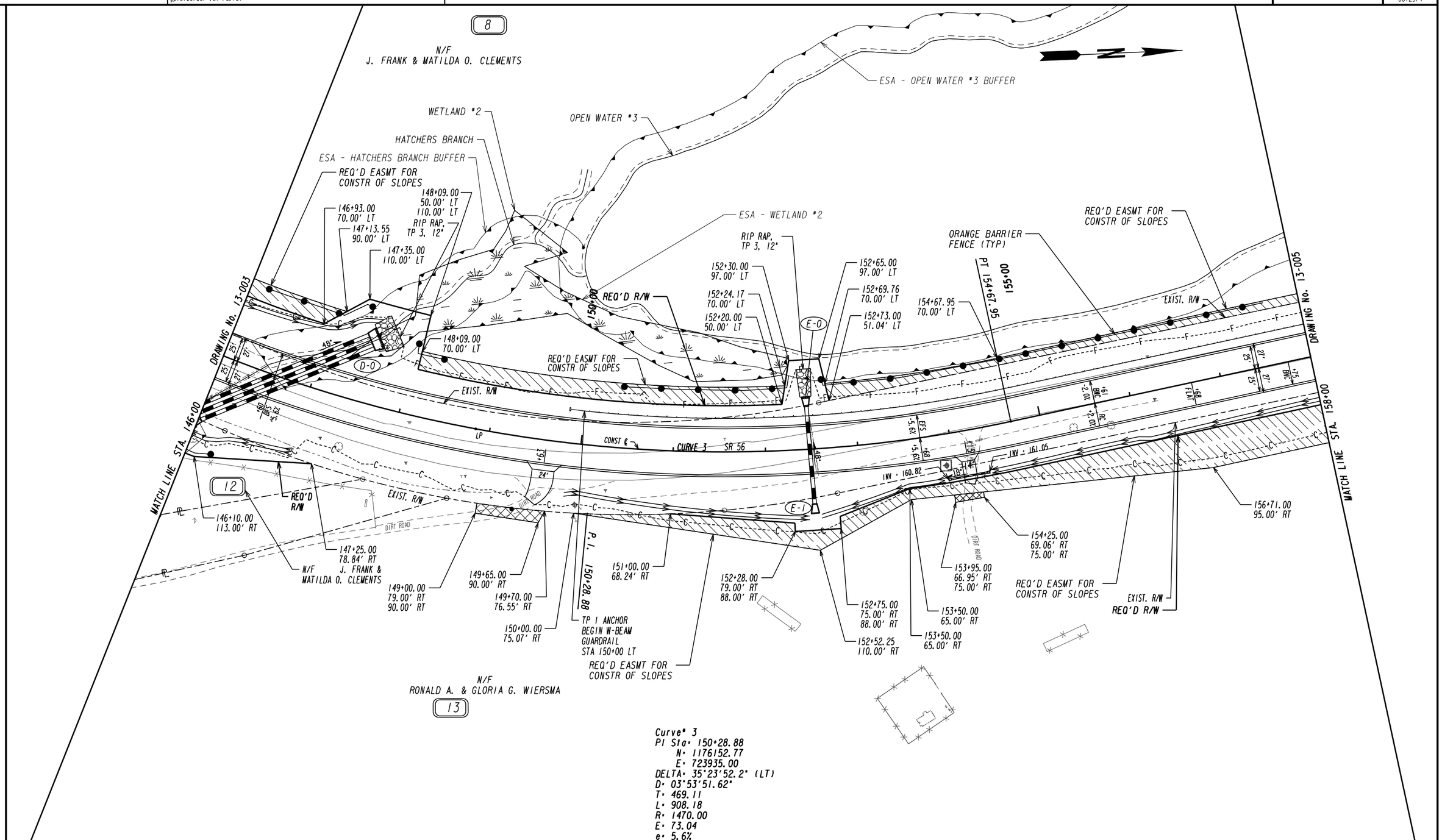
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-003



Curve# 3
PI Sta= 150+28.88
N= 1176152.77
E= 723935.00
DELTA= 35°23'52.2" (LT)
D= 03°53'51.62"
T= 469.11
L= 908.18
R= 1470.00
E= 73.04
e= 5.6%

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)

Columbia Engineering
LAND PLANNERS · CIVIL ENGINEERS · LANDSCAPE ARCHITECTS · SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

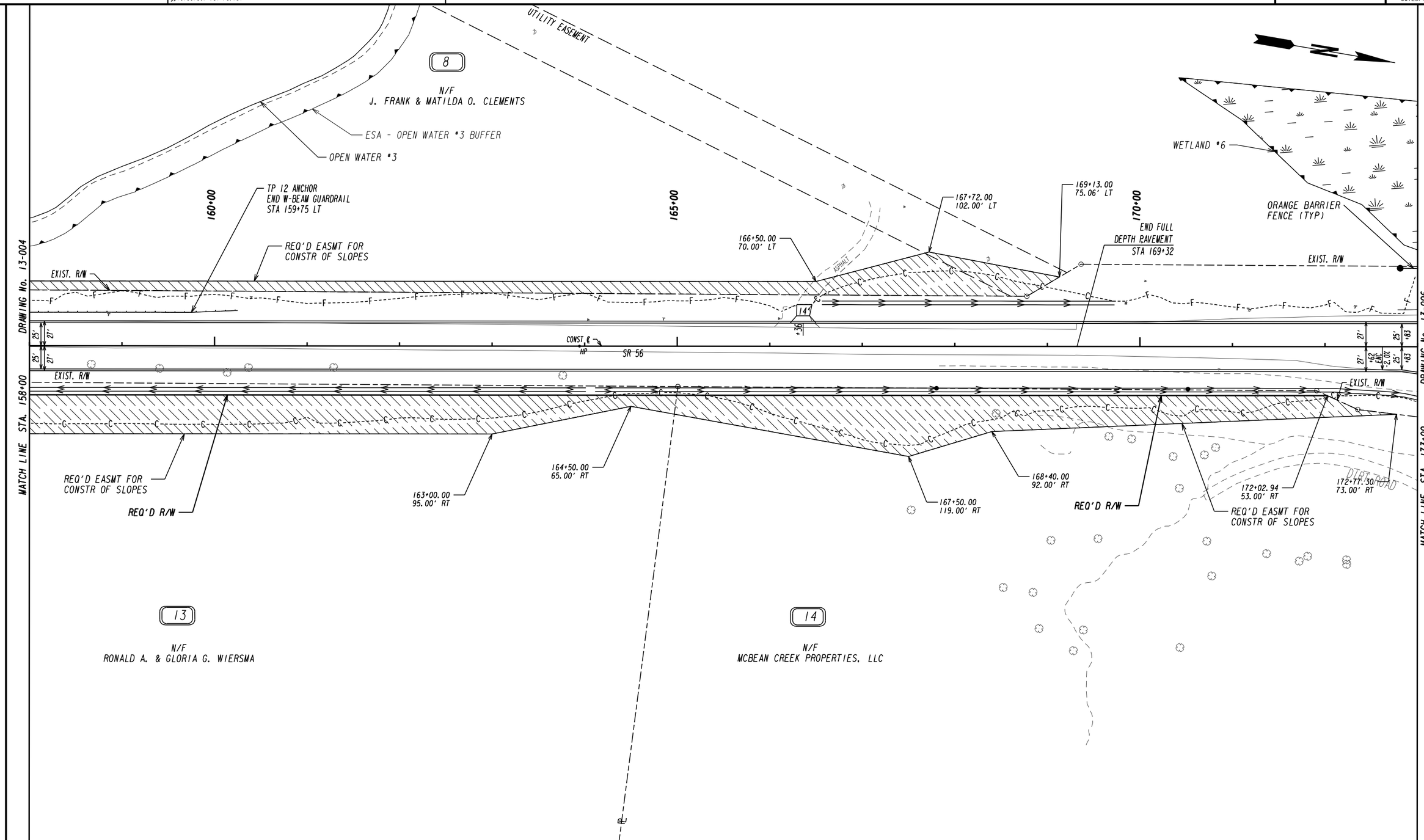
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-004



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)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

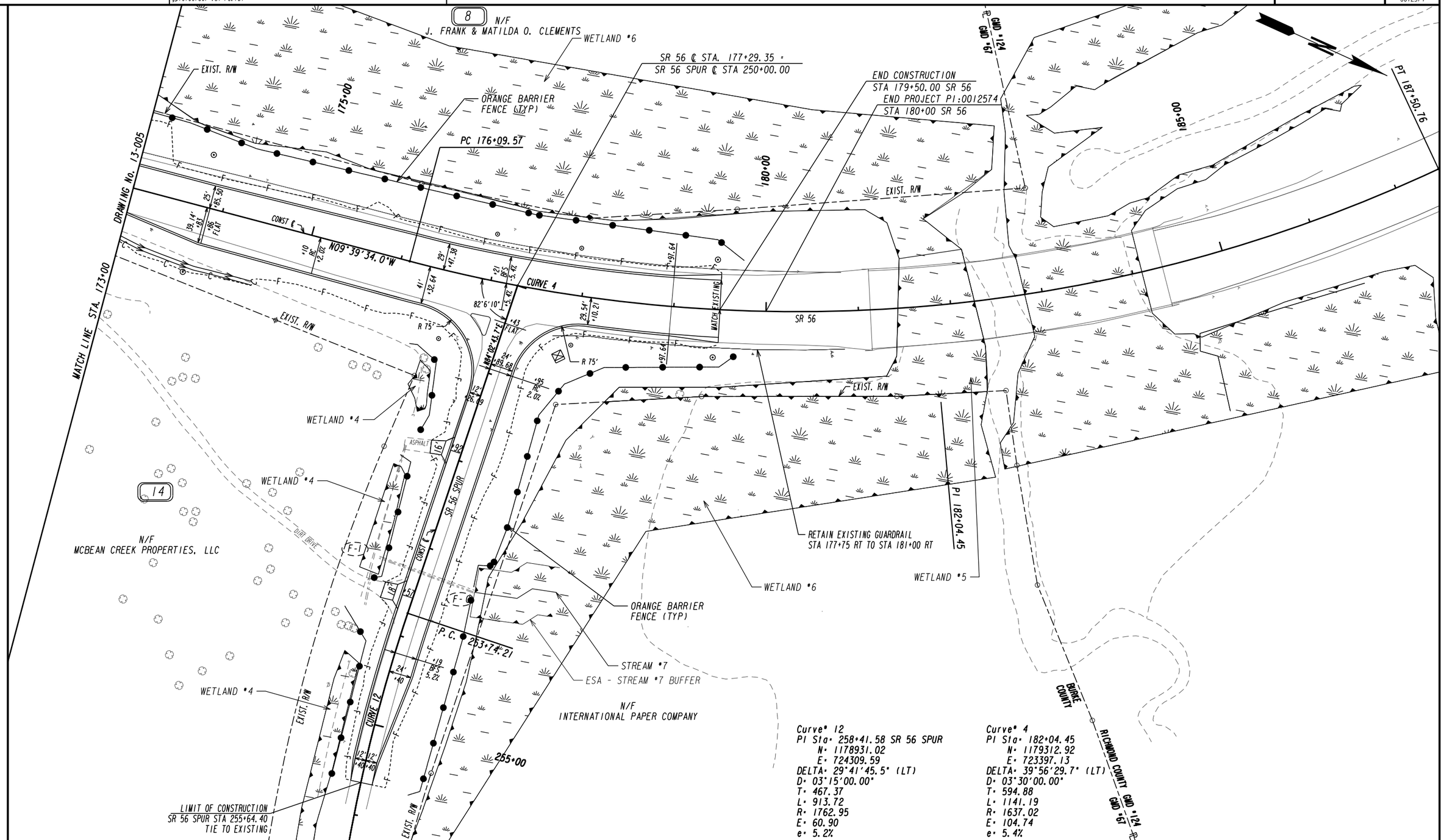
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-005



Curve* 12
PI Sta* 258+41.58 SR 56 SPUR
N* 1178931.02
E* 724309.59
DELTA* 29°41'45.5" (LT)
D* 03°15'00.00"
T* 467.37
L* 913.72
R* 1762.95
E* 60.90
e* 5.2%

Curve* 4
PI Sta* 182+04.45
N* 1179312.92
E* 723397.13
DELTA* 39°56'29.7" (LT)
D* 03°30'00.00"
T* 594.88
L* 1141.19
R* 1637.02
E* 104.74
e* 5.4%

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)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE IN FEET
0 50 100 200

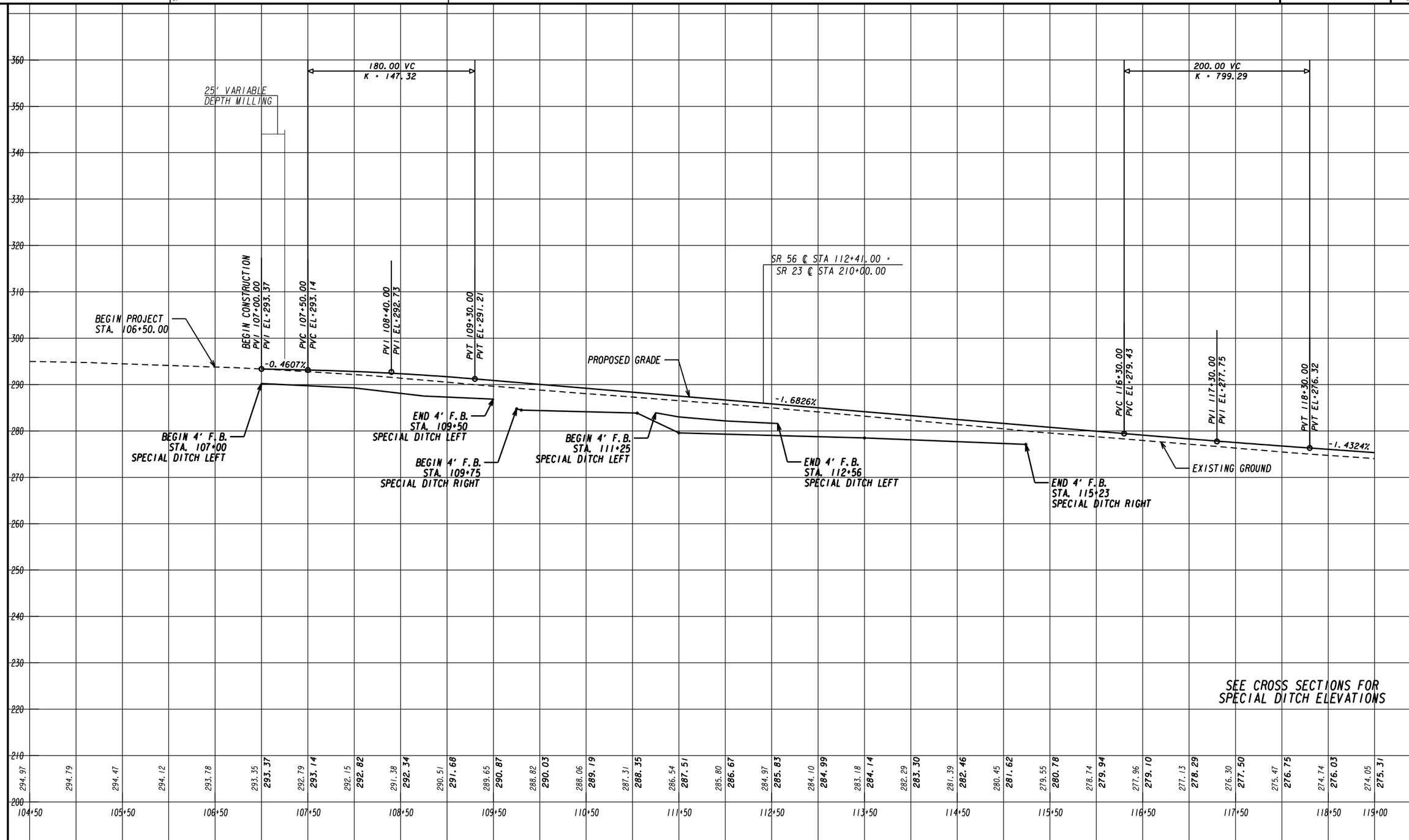
REVISION DATES

MAINLINE PLAN

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 13-006



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

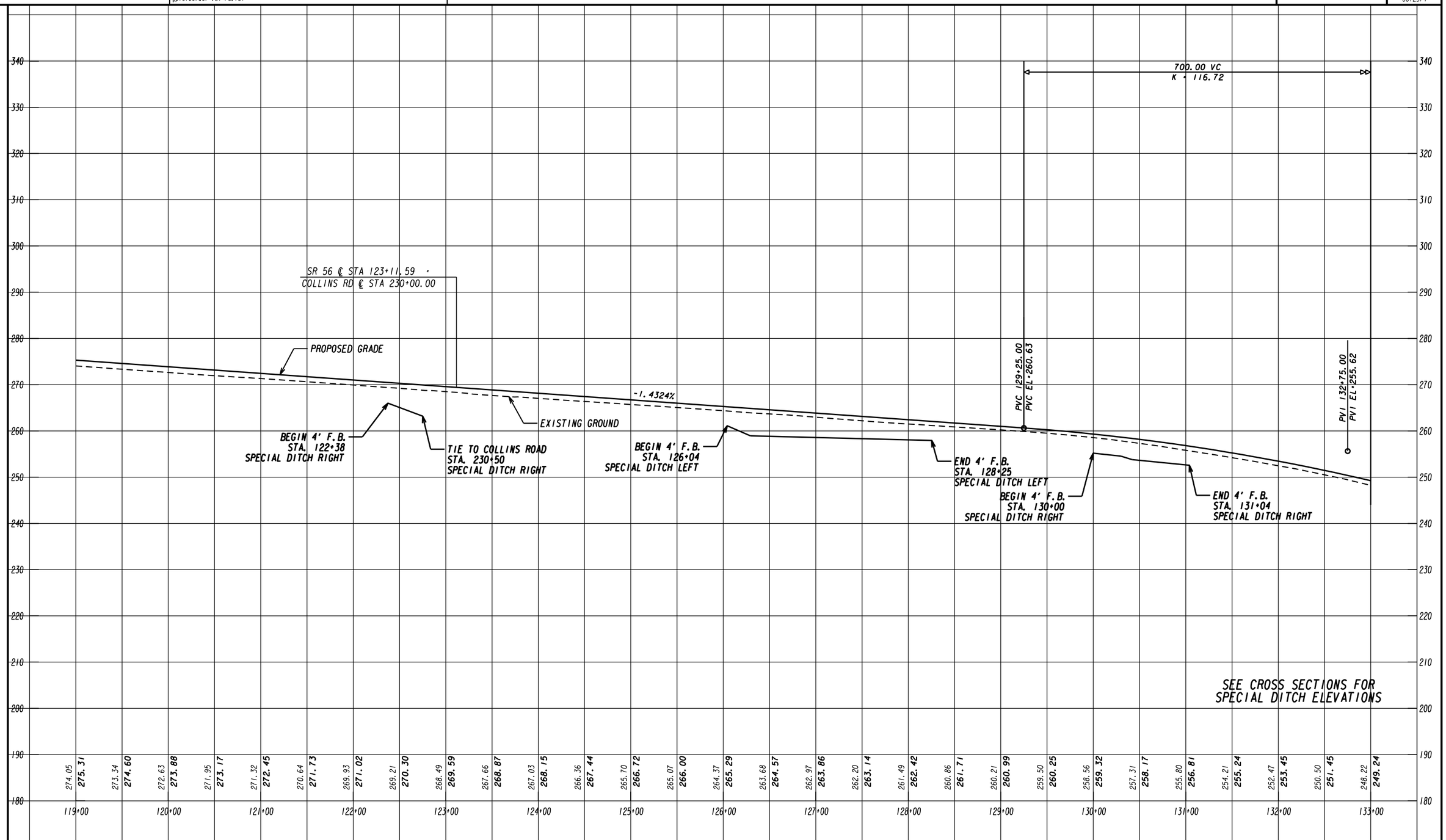
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 15-001



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

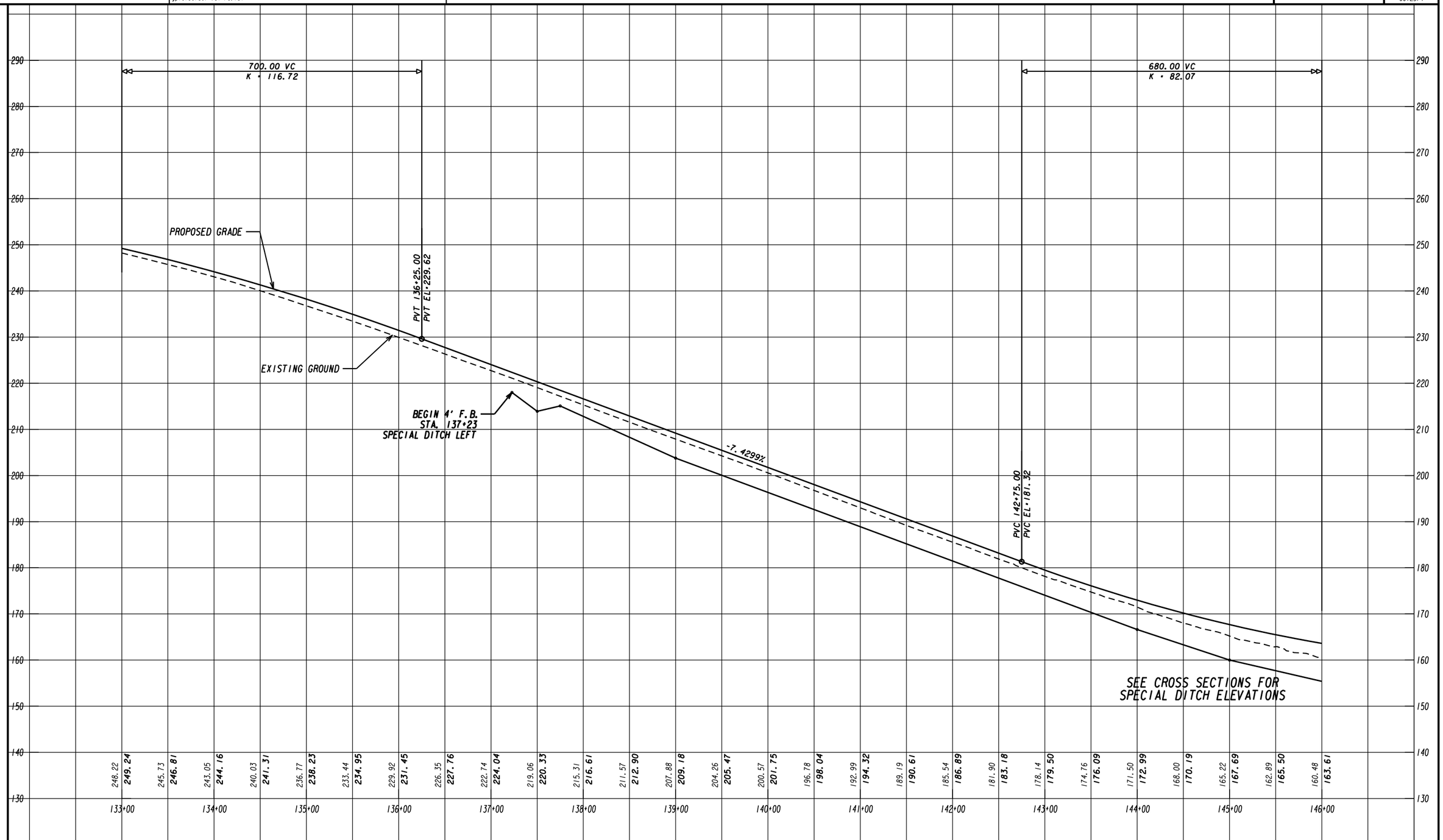
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No.
15-002



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

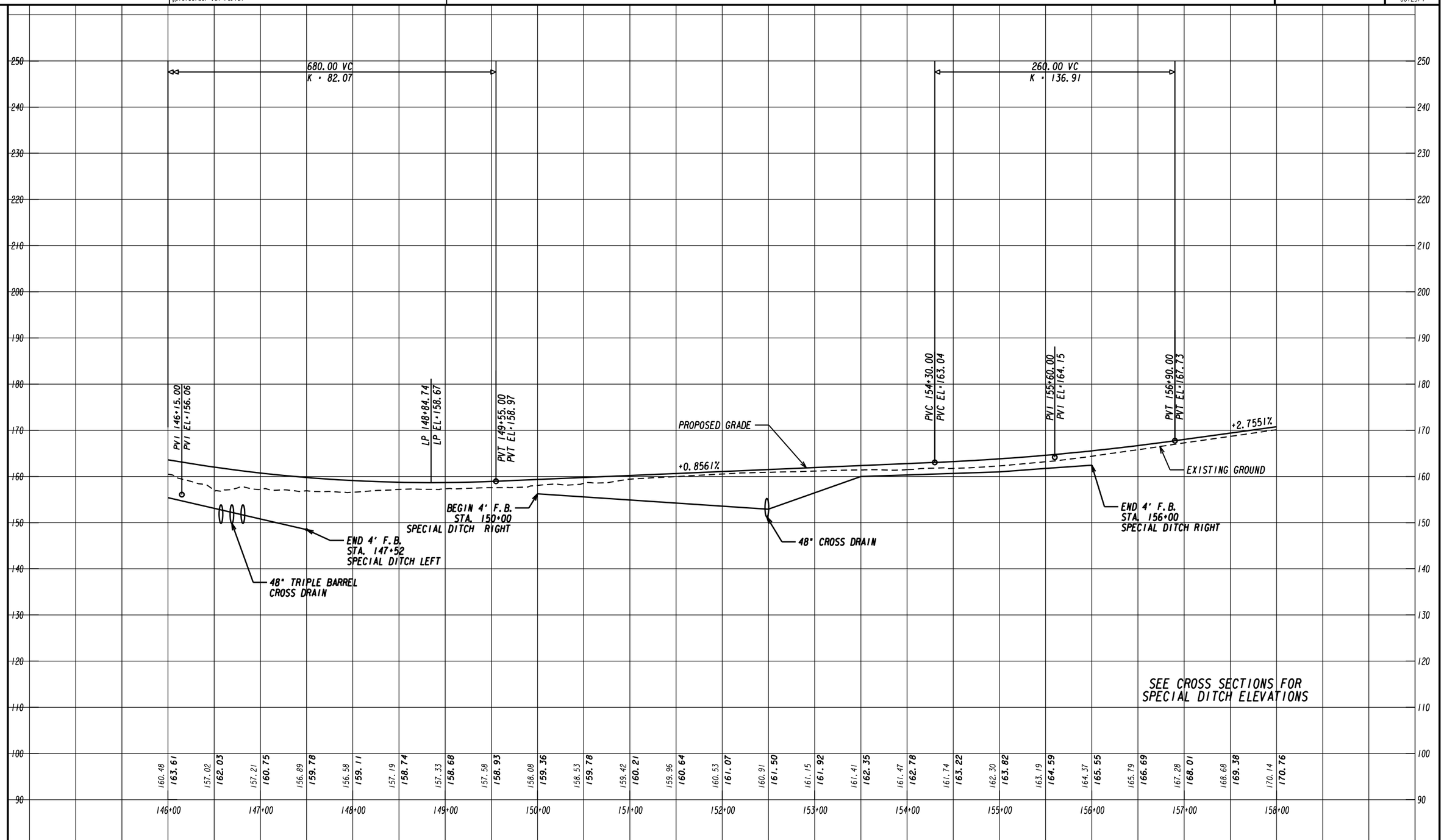
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 15-003



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

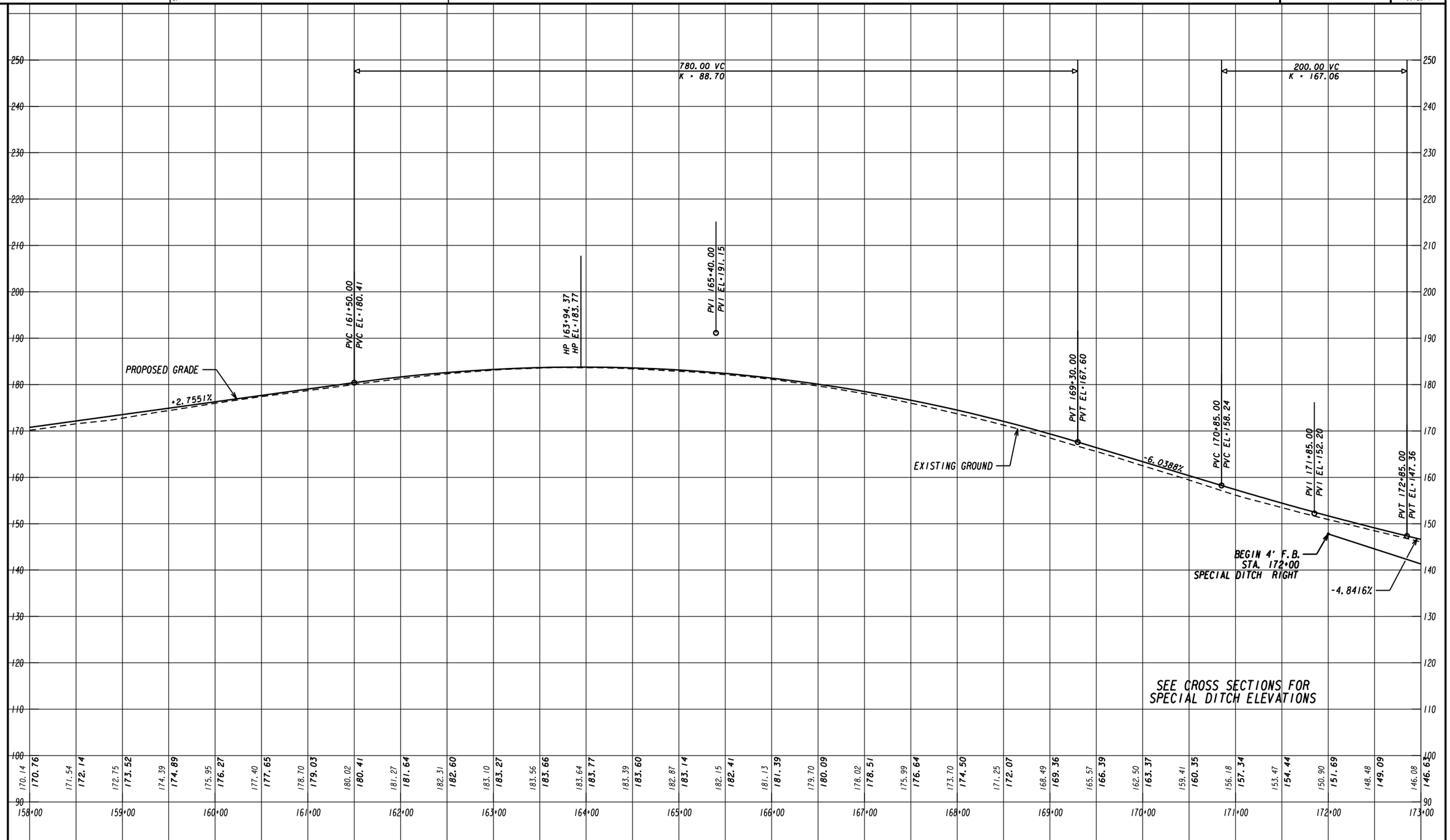
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 15-004



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

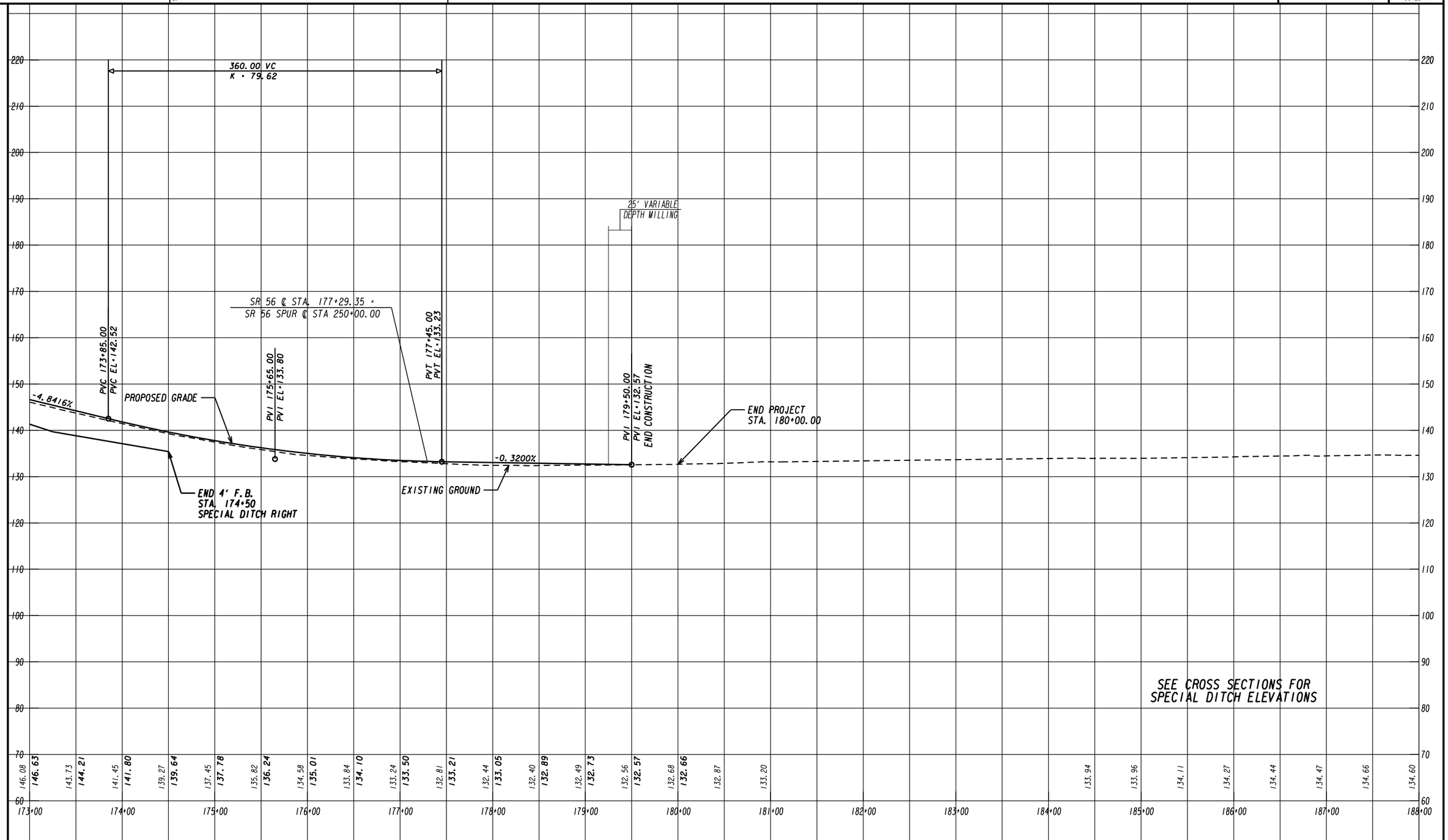
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No.
15-005



Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

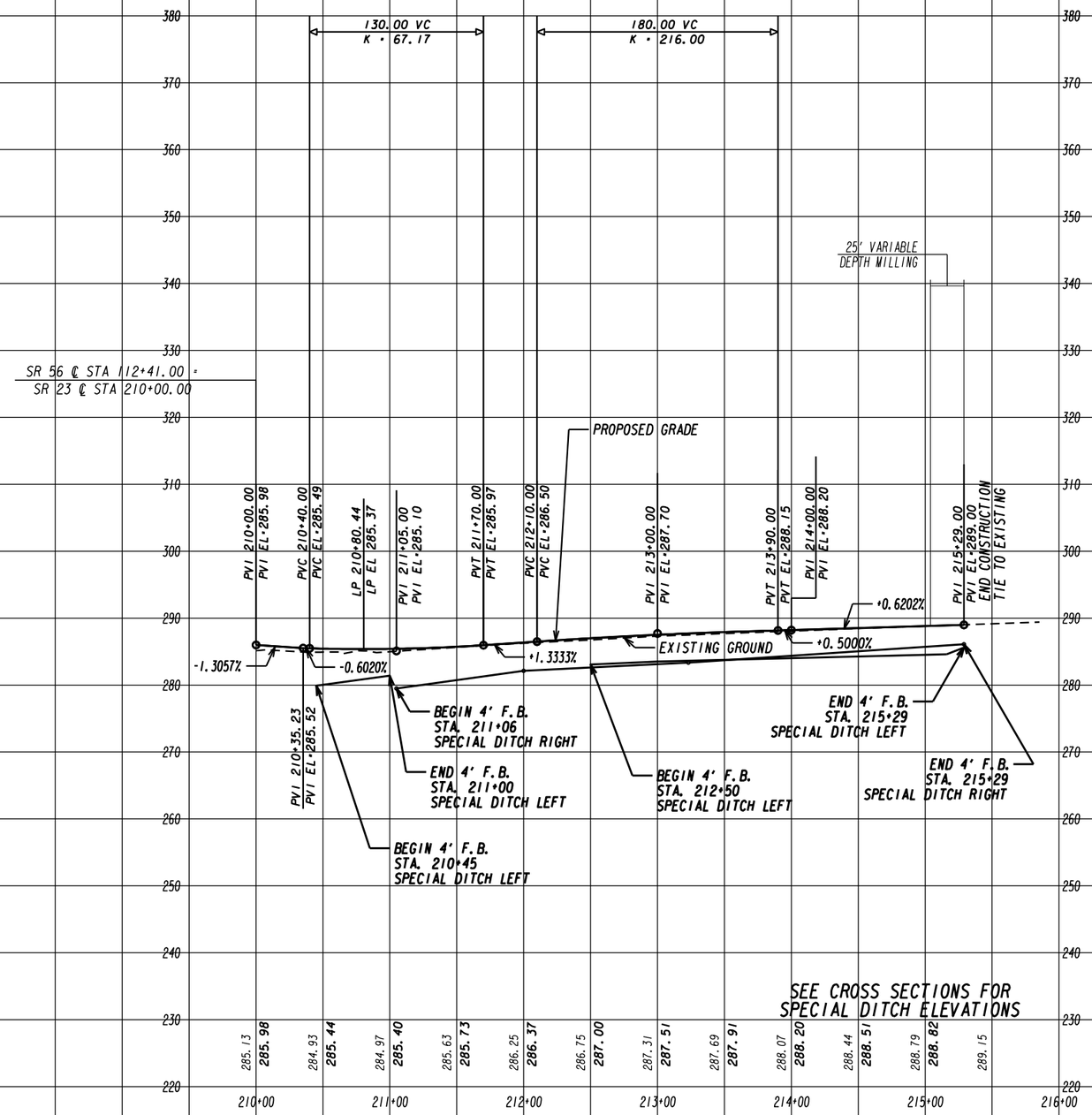
REVISION DATES

MAINLINE PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 15-006



SR 23

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

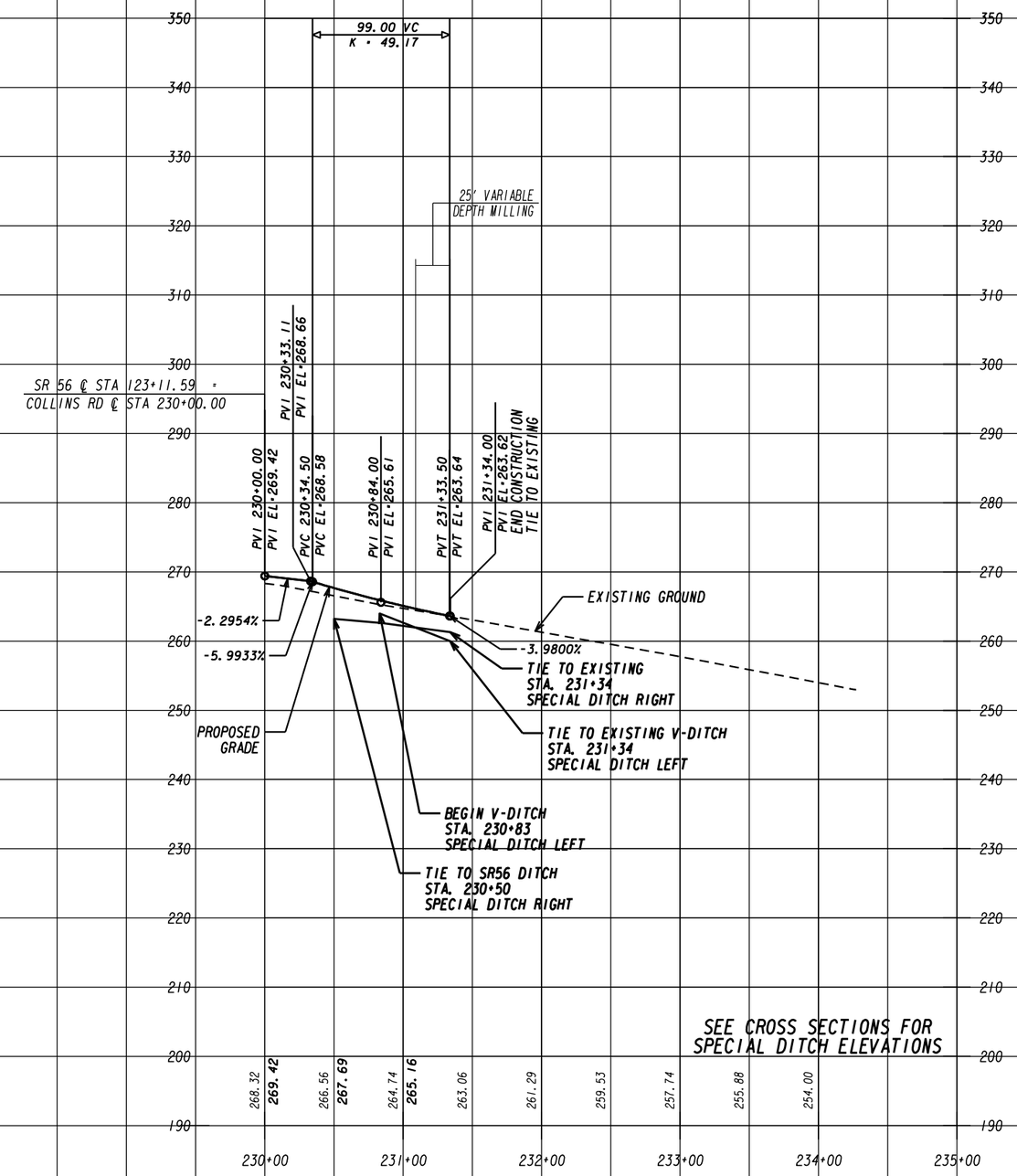
REVISION DATES

CROSSROAD PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

SR 23

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	16-001
CORRECTED:		DATE:	
VERIFIED:		DATE:	



COLLINS ROAD

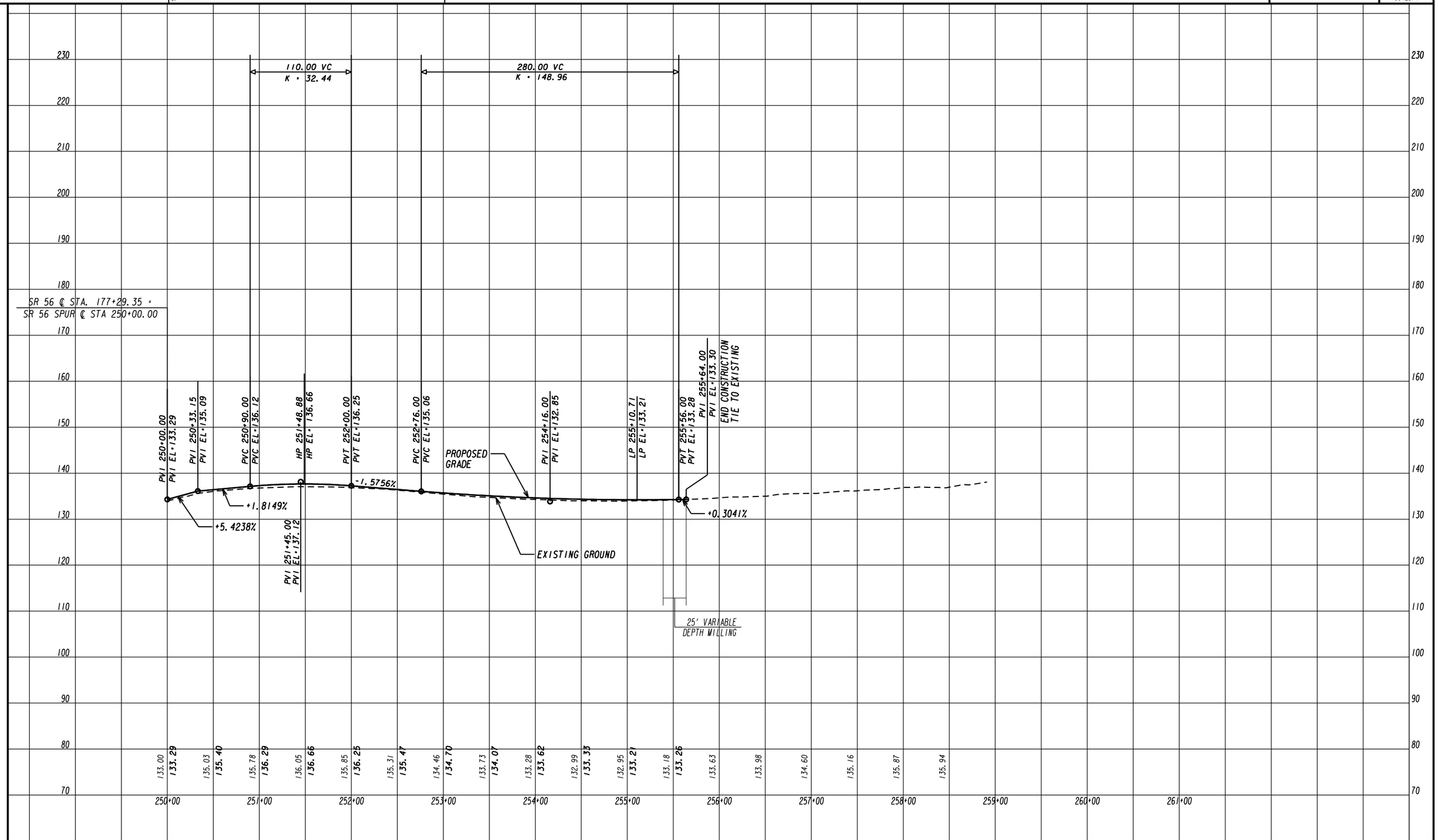
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

REVISION DATES

CROSSROAD PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23
COLLINS ROAD

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	16-002
CORRECTED:		DATE:	
VERIFIED:		DATE:	



SR 56 SPUR

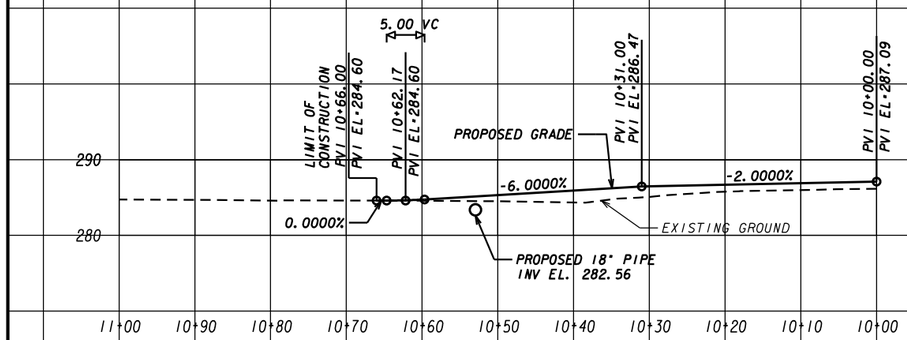
SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

REVISION DATES

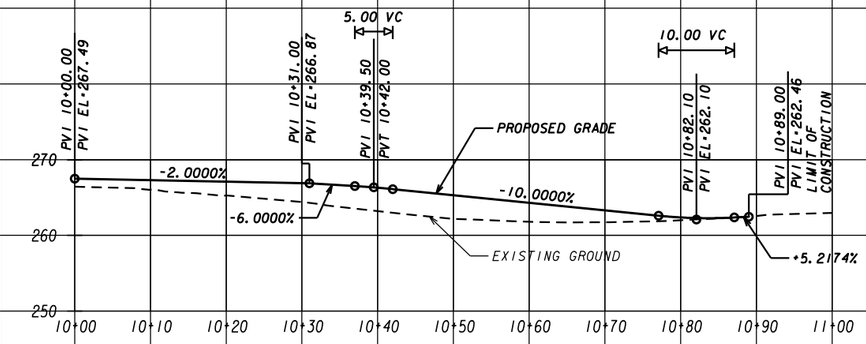
CROSSROAD PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23
SR 56 SPUR

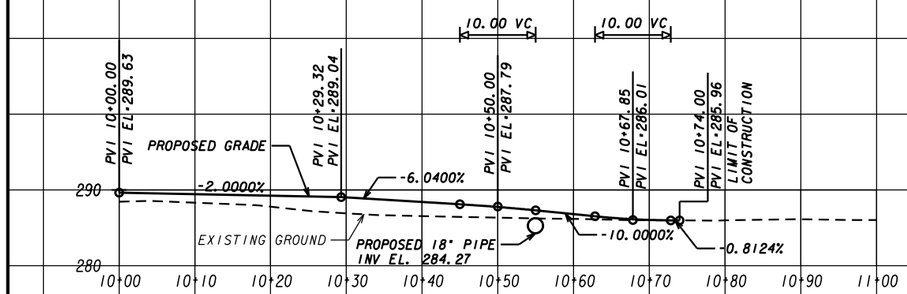
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	16-003
CORRECTED:		DATE:	
VERIFIED:		DATE:	



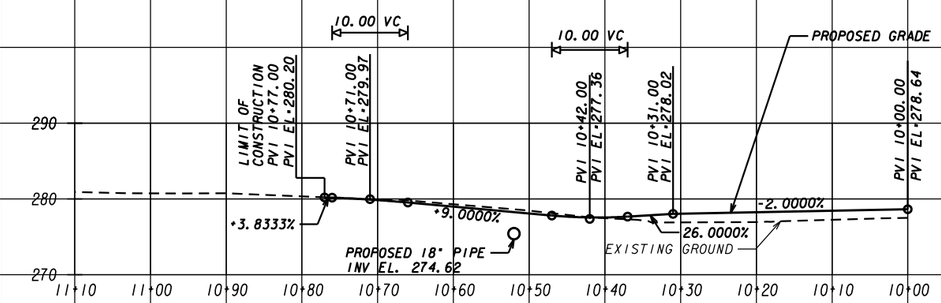
RESIDENTIAL DWY
STA 111+75.00 LT SR56 (ASPHALT)



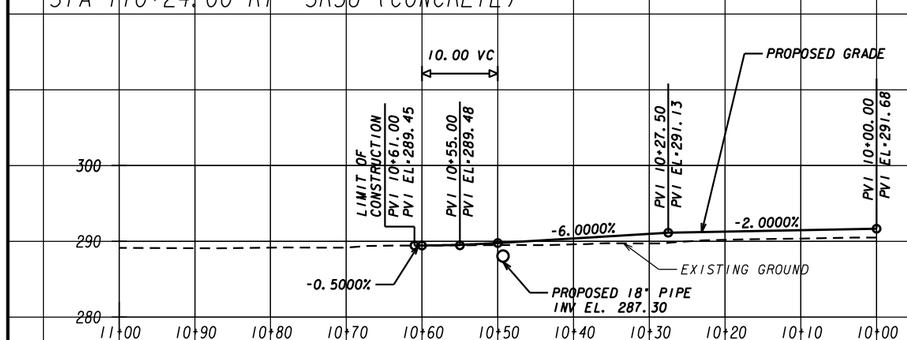
RESIDENTIAL DWY
STA 124+46.00 RT SR56 (CONCRETE)



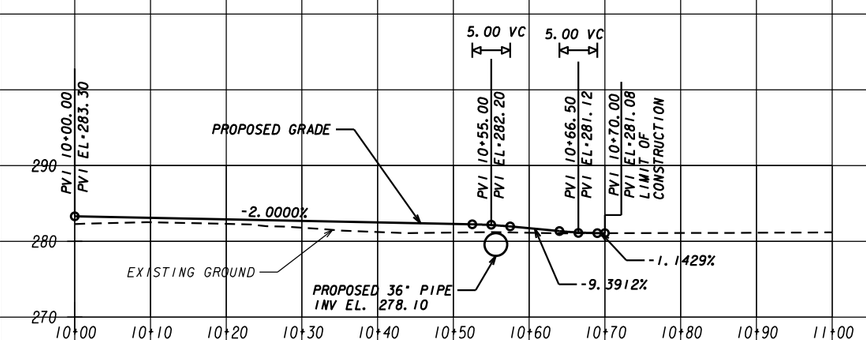
COMMERCIAL DWY
STA 110+24.00 RT SR56 (CONCRETE)



COMMERCIAL DWY
STA 116+78.00 LT SR56 (CONCRETE)



RESIDENTIAL DWY
STA 109+00.00 LT SR56 (ASPHALT)



RESIDENTIAL DWY
STA 114+00.00 RT SR56 (ASPHALT)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

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

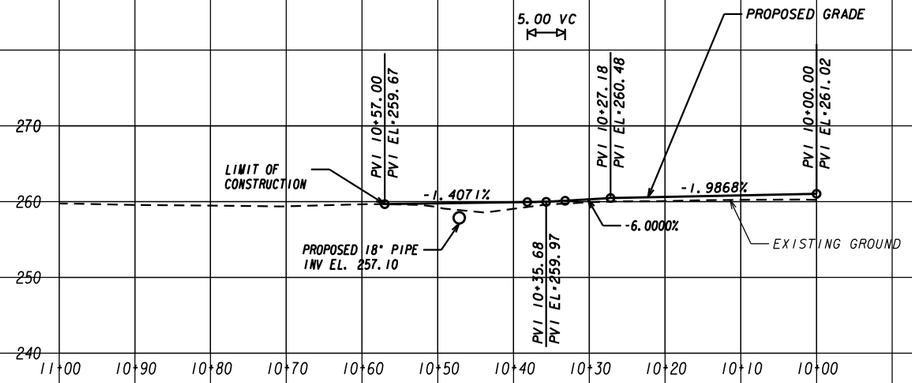
REVISION DATES

DRIVEWAY PROFILE

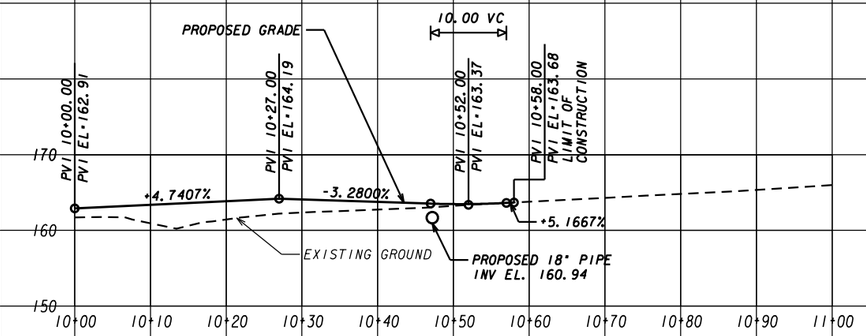
SR 56 FROM BURKE COUNTY LINE TO SR 23

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

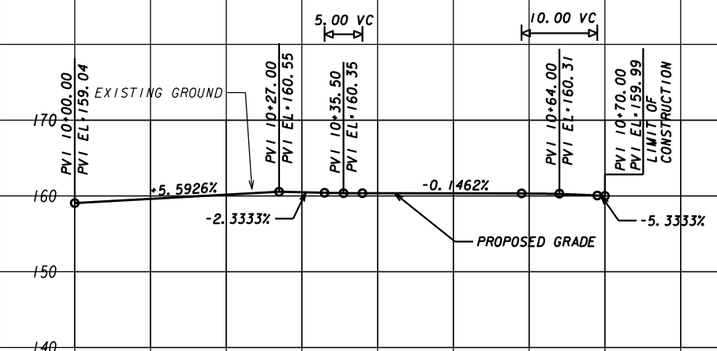
DRAWING No. 17-001



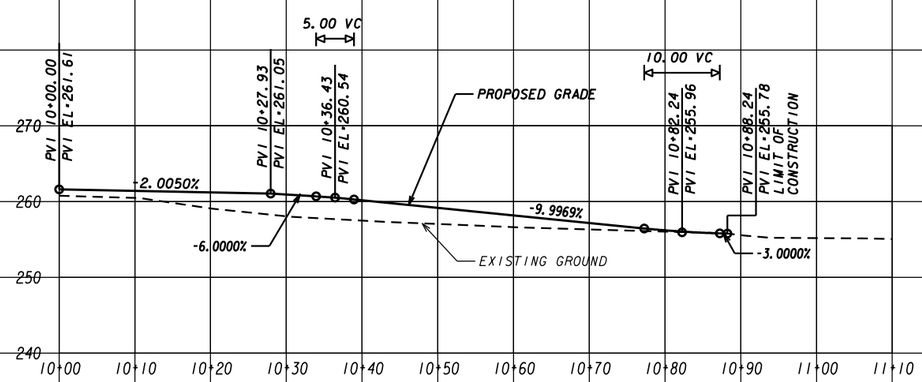
RESIDENTIAL DWY
STA 128+98.00 LT SR56 (ASPHALT)



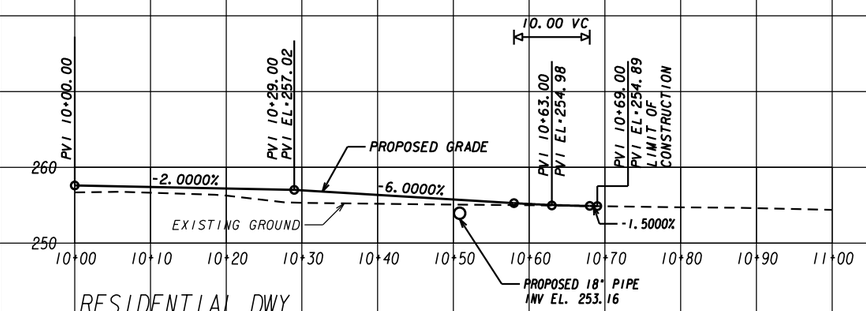
RESIDENTIAL DWY
STA 154+15.00 RT SR56 (ASPHALT)



COMMERCIAL DWY
STA 149+63.00 RT SR56 (CONCRETE)



RESIDENTIAL DWY
STA 128+57.00 RT SR56 (ASPHALT)



RESIDENTIAL DWY
STA 130+72.00 RT SR56 (ASPHALT)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

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

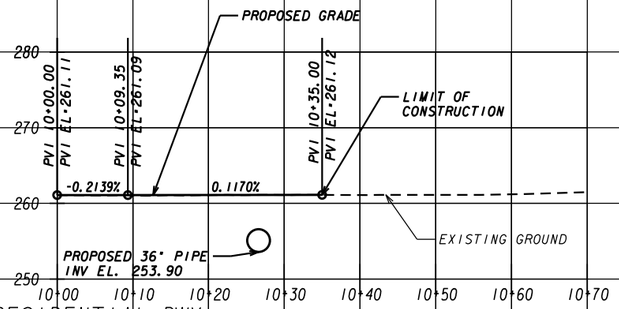
REVISION DATES

DRIVEWAY PROFILE

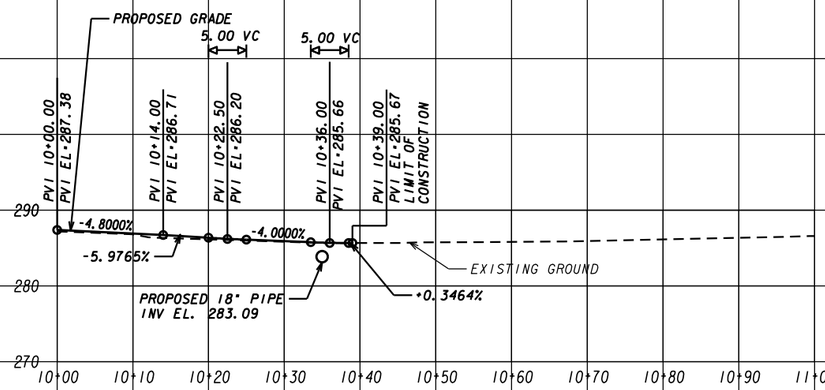
SR 56 FROM BURKE COUNTY LINE TO SR 23

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

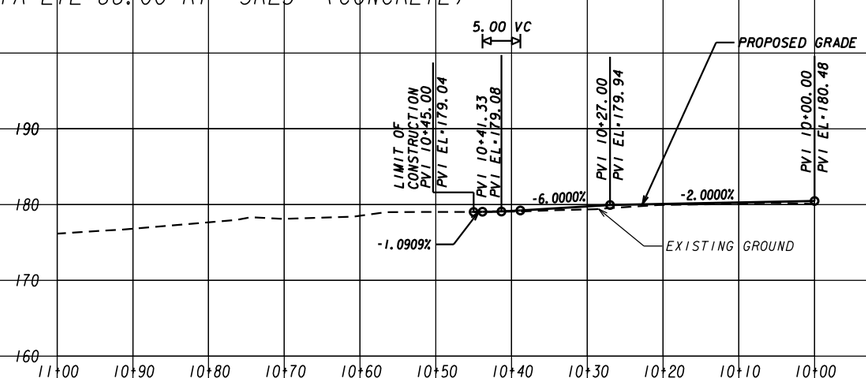
DRAWING No. 17-002



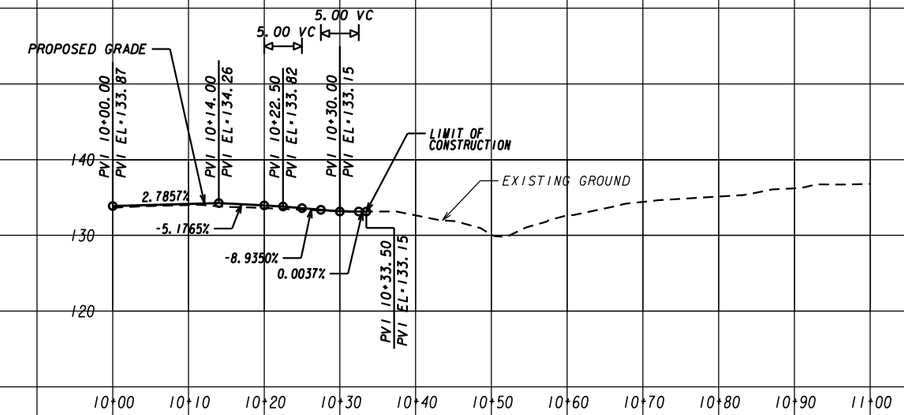
RESIDENTIAL DWY
STA. 232+05 RT COLLINS RD (GRAVEL)



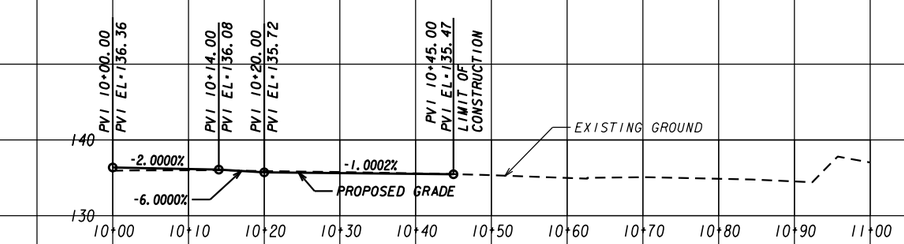
COMMERCIAL DWY
STA 212+88.00 RT SR23 (CONCRETE)



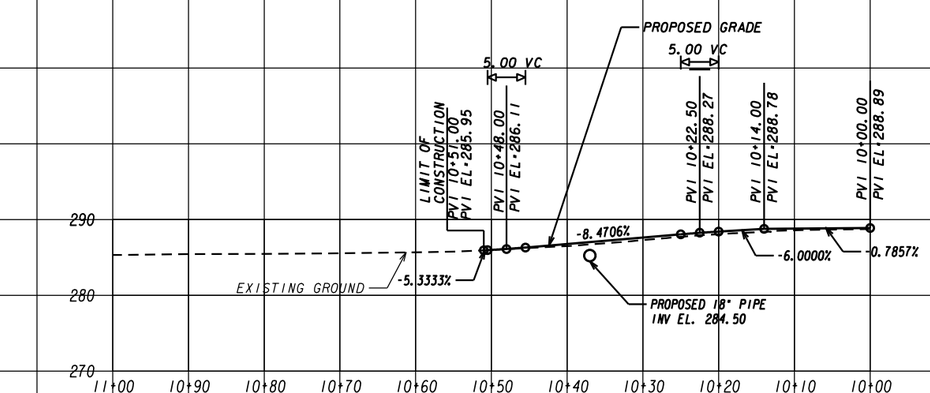
RESIDENTIAL DWY
STA 166+36.00 LT SR56 (ASPHALT)



RESIDENTIAL DWY
STA 253+57.00 RT SR56 SPUR (ASPHALT)



RESIDENTIAL DWY
STA 251+92.00 RT SR56 SPUR (ASPHALT)



RESIDENTIAL DWY
STA 214+96 LT SR23 (CONCRETE)

Columbia Engineering
LAND PLANNERS • CIVIL ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096
Phone: (770) 925-0357
Fax: (770) 925-0565

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

REVISION DATES

DRIVEWAY PROFILE

SR 56 FROM BURKE COUNTY LINE TO SR 23

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

DRAWING No. 17-003