STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		1	##

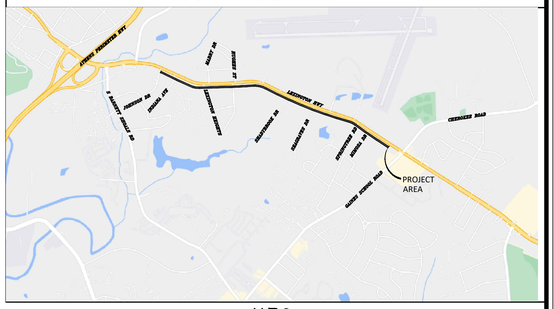
LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

FOR
ATHENS-CLARKE COUNTY
DEPARTMENT OF LEISURE SERVICES

PROJECT DATA

LENGTH OF PROJECT	1.51 MILES	
	GREENWAY	TOTAL
NET LENGTH OF MULTI-USE TRAIL	1.51	1.51
NET LENGTH OF BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	1.51	1.51
NET LENGTH OF EXCEPTION	0.00	0.00
GROSS LENGTH OF PROJECT	1.51	1.51
PERCENT LENGTH OF PROJECT COUNTY		100%
THIS PROJECT IS LOCATED WITHIN CONGRESSIONAL DISTRICT 10		
THIS PROJECT IS LOCATED WITHIN ATHENS-CLARKE COUNTY		

LOCATION MAP



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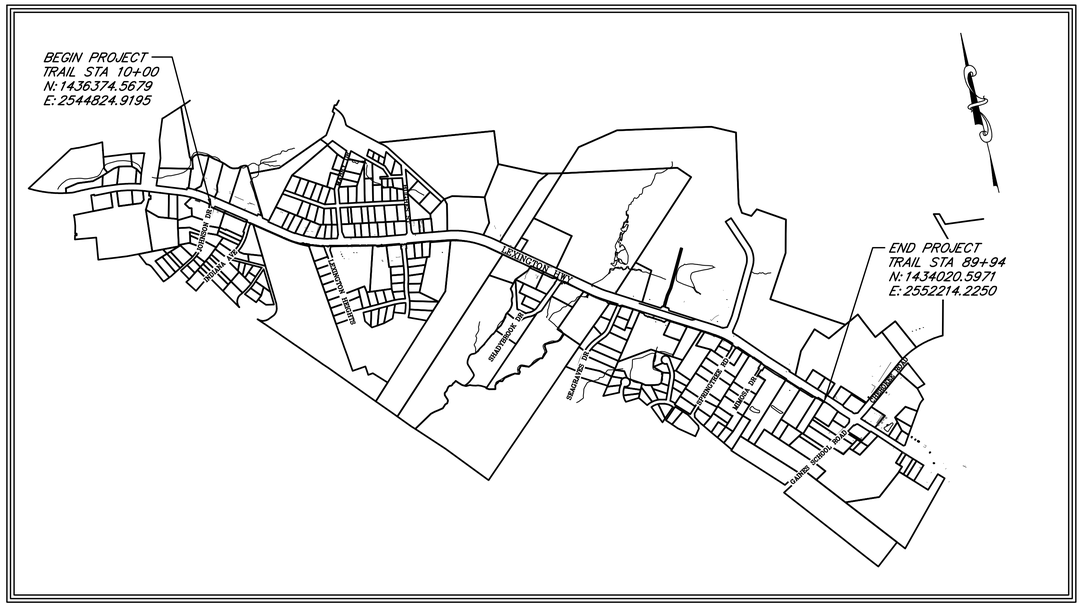

N.T.S.

Begin	
Latitude	33.945895 N
Longitude	83.348100 W
End	
Latitude	33.939291 N
Longitude	83.323879 W

DISTURBED AREA = #### AC
A NOI IS REQUIRED

NOTE:
PROJECT TO BE CONSTRUCTED AS PER GEORGIA DOT STANDARD SPECIFICATIONS, 2013 EDITION AND 2016 STANDARD SUPPLEMENTAL SPECIFICATIONS, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND AS MODIFIED BY CONTRACT DOCUMENTS.

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

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

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OWNER
24 HR. CONTACT
ATHENS-CLARKE COUNTY
DEREK DOSTER
301 COLLEGE AVE., SUITE 101
ATHENS, GA. 30603
706-613-3025

Preliminary
04/27/2022 2:04:02 PM

GEORGIA REGISTERED PROFESSIONAL ENGINEER VICTOR A. CONOVER

SUBMITTED BY VICTOR A. CONOVER

PLANS COMPLETED	APRIL 27, 2022
REVISIONS	

INDEX OF SHEETS

SHEET NO.	SECTION	DESCRIPTION
1	01-01	COVER
2	02-01	INDEX
3	03-01	REVISION SUMMARY
4-5	05-01 TO 05-02	TYPICAL SECTIONS
6	09-01	DETAILED ESTIMATE
7-24	13-001 TO 13-018	CONSTRUCTION PLANS
25-44	23-001 TO 23-020	CROSS SECTIONS
45	40-001	CONSTRUCTION DETAILS

ACC STANDARD DETAILS

SHEET NO.	GA DET NO.	DESCRIPTION
	1-030	CURB & GUTTER DETAIL
	1-060	TYPICAL SIDEWALK CROSS-SECTIONS (EXISTING STREETS)
	2-010	URBAN RESIDENTIAL DRIVEWAY APRON DETAIL

GEORGIA DOT STANDARDS

SHEET NO.	GA STD NO.	DESCRIPTION	REVISION DATE
	1120	FLARED END SECTIONS FOR PIPES	6-06
	1125	INLET HEADWALL - OUTLET HEADWALL	10-99
	9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	3-03
	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS	3-06
	9107	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY	3-06
	9031L	GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG	916
	9031R	PLACING ROOF DRAIN PIPE UNDER SIDWALK - RAMP TYPE BARRICADE - PIPE HANDRAIL FOR RETAINING WALL PIPE HANDRAIL FOR CONCRETE STEPS	10-16

GEORGIA DOT DETAILS

SHEET NO.	GA DET NO.	DESCRIPTION	REVISION DATE
	A1	DRIVEWAYS WITH TAPERED ENTERANCES CONCRETE VALLEY GUTTERS	7-11
	A3	DETAILS OF CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMP	9-16
	A4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS	7-02
	T-3A	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL	7-02
	T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY	1-00

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: INDEX

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

PROJECT INFORMATION
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 02-001

REVISION SUMMARY

DATE	REVISED SHEET #	REVISION
__/__/__	_	_

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE:
REVISION SUMMARY

PROJECT NAME
LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

PROJECT INFORMATION

JOB NO: 19022041
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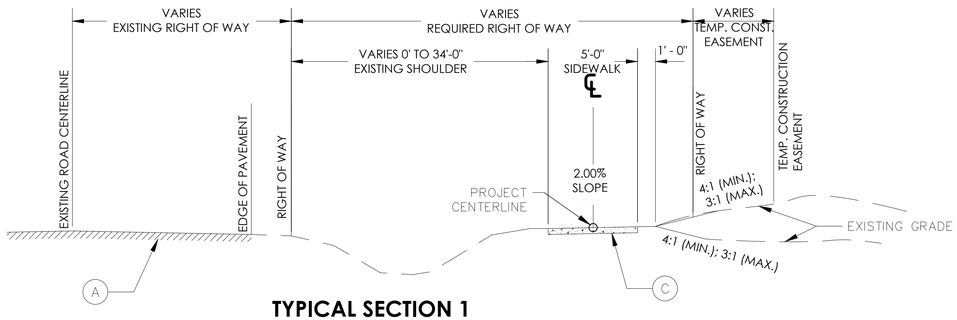
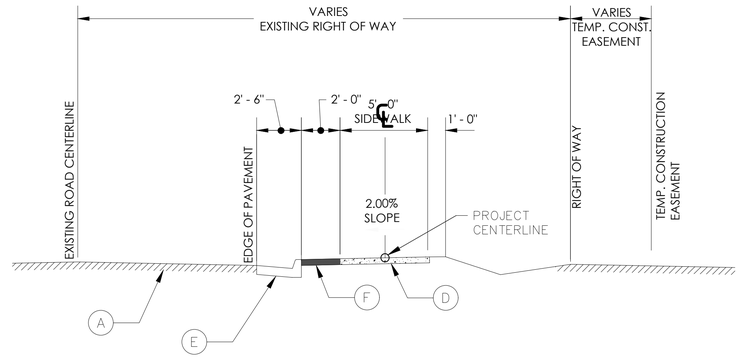
ORIGINAL RELEASE DATE:
APRIL 27, 2022

Sheet:
03-001



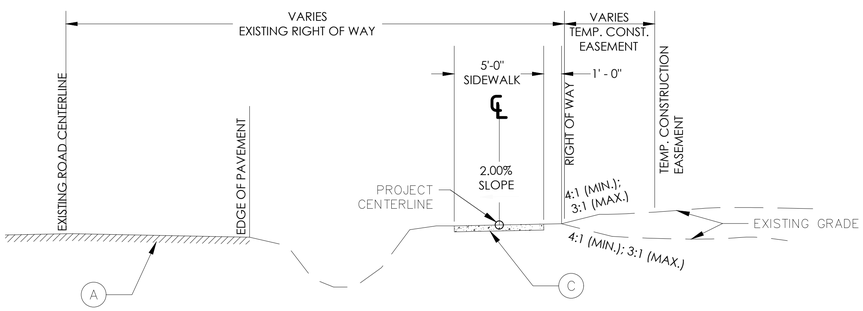
TYPICAL SECTION 1

LEXINGTON ROAD
STA 10+17 TO 14+65
STA 30+75 TO 32+10
STA 35+38 TO 37+50
STA 50+25 TO 53+73
STA 54+94 TO 57+30
STA 60+12 TO 71+10
STA 72+77 TO 78+25
STA 88+30 TO 90+00



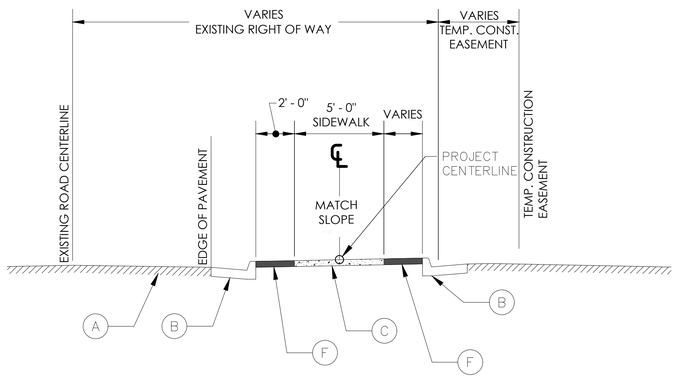
TYPICAL SECTION 3

LEXINGTON ROAD
STA 22+35 TO STA 23+00



TYPICAL SECTION 2

LEXINGTON ROAD
STA 14+65 TO 22+35
STA 33+70 TO 34+50



TYPICAL SECTION 4

LEXINGTON ROAD
STA 23+00 TO 24+50

REQUIRED PAVEMENT LEGEND

- (A) EXISTING ASPHALT ROADWAY
- (B) EXISTING CONC. CURB AND GUTTER
- (C) NEW CONCRETE SIDEWALK, 4 IN THICK
- (D) NEW CONCRETE SIDEWALK WITH GDOT HEADER CURB TYPE 2, (MONOLITHIC POUR), 4 IN THICK
- (E) NEW CONC. CURB AND GUTTER, 6" X 30", TYPE 2
- (F) 4" THICK CONCOURSE BEAUTY STRIP, SHADOW BOX JOINTING PER ACC DETAIL 1-060, COLORED RED

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

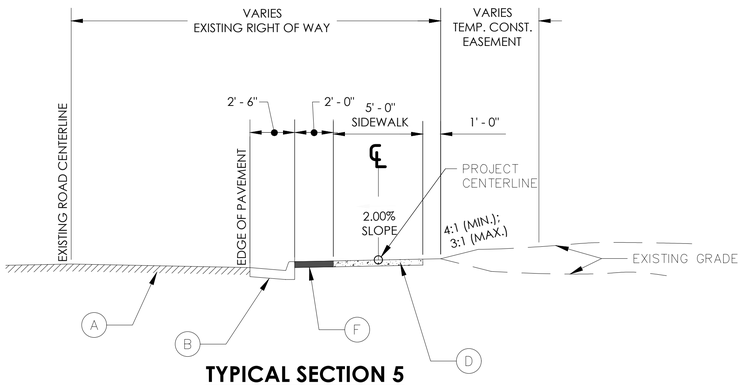
SHEET TITLE: TYPICAL SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

PROJECT INFORMATION

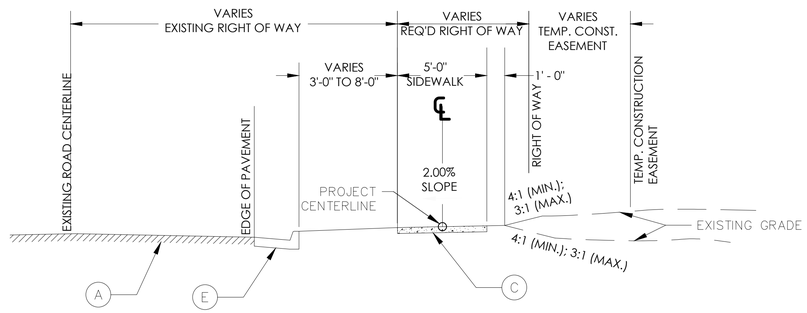
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 05-001



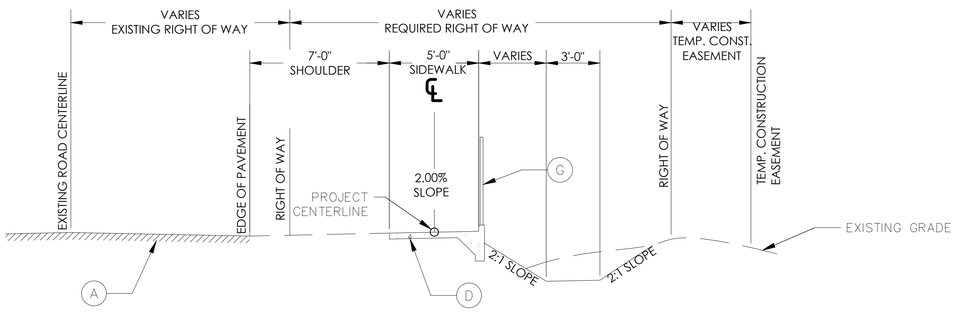
TYPICAL SECTION 5

LEXINGTON ROAD
STA 24+50 TO STA 30+75



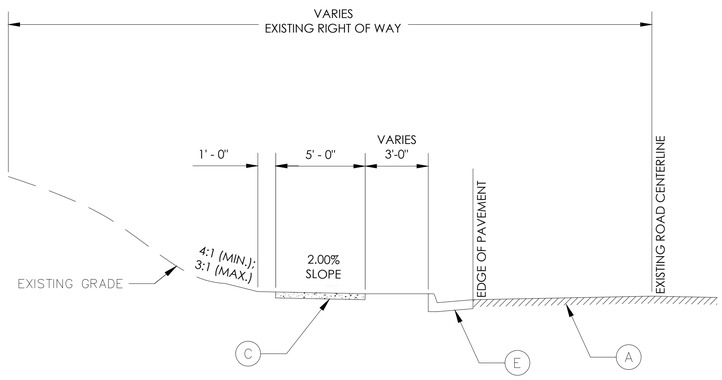
TYPICAL SECTION 8

LEXINGTON ROAD
STA 79+65 TO 80+49



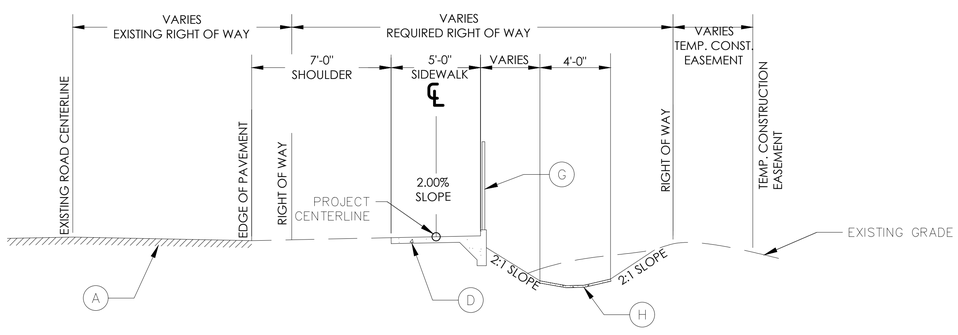
TYPICAL SECTION 6

LEXINGTON ROAD
STA 54+30 TO 54+94



TYPICAL SECTION 9

LEXINGTON ROAD
STA 0+10 TO 7+00



TYPICAL SECTION 7

LEXINGTON ROAD
STA 57+30 TO 60+12

REQUIRED PAVEMENT LEGEND

- (A) EXISTING ASPHALT ROADWAY
- (B) EXISTING CONC. CURB AND GUTTER
- (C) NEW CONCRETE SIDEWALK, 4 IN THICK
- (D) NEW CONCRETE SIDEWALK WITH GDOT HEADER CURB TYPE 2, (MONOLITHIC POUR), 4 IN THICK
- (E) NEW CONC. CURB AND GUTTER, 6" X 30", TYPE 2
- (F) 4" THICK CONCOURSE BEAUTY STRIP, SHADOW BOX JOINTING PER ACC DETAIL 1-060, COLORED RED
- (G) CONCRETE PAVED SWALE, PER GDOT DET. D-49

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: TYPICAL SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

PROJECT INFORMATION

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ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 05-002

DETAILED ESTIMATE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL	LS	1
163-0240	MULCH	TN	50
163-0300	CONSTRUCTION EXIT	EA	8
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP, SD2-P	EA	7
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1000
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	8
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP, SD2-P	EA	7
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	1000
201-1500	CLEARING AND GRABBING	LS	1
206-0200	BORROW EXCAVATION,INCL MATL	CY	150
210-1000	GRADING COMPLETE	LS	1
318-3000	AGGR SURF CRS	TN	200
402-3102	RECYL ASPH CONC, 9.5 MM, SUPERPAVE, TYPE II BLEND 1, INCL BITUM MATL & H LIME	TN	35
413-1000	BITUMINOUS TACK COAT	GL	15
441-0104	CONCRETE SIDEWALK, 4 IN	SY	2225
441-0104	CONCRETE SIDEWALK, 4 IN (TURN DOWN)	SY	200
441-0108	CONCRETE SIDEWALK, 8 IN	SY	125
441-0108	CONC SIDEWALK, 8 IN (FOR ADA RAMP)	SY	330
441-0204	PLAIN CONC DITCH PAVING, 4 IN	SY	45
441-4030	CONC VALLEY GUTTER, 8 IN	SY	135
441-6022	CONC CURB & GUTTER, 6 IN x 30 IN TP 2	LF	1520
500-3107	CLASS A CONCRETE, RETAINING WALL	CY	175
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	9
500-9999	CLASS B CONCRETE - BASE OR PAVEMENT WIDENING	CY	55
515-2020	GALV STEEL PIPE HANDRAIL, 2 IN ROUND	LF	350
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	1110
550-1480	STORM DRAIN PIPE, 48 IN, H 1-10	LF	75
550-4218	FLARED END SECTION 18 IN, STORM DRAIN	EA	5
550-4248	FLARED END SECTION 48 IN, STORM DRAIN	EA	2
603-2018	STONE DUMPED RIP RAP, TP 1, 18 IN	SY	50
603-7000	PLASTIC FILTER FABRIC	SY	50
610-9001	REMOVE SIGN	EA	5
611-5360	RESET SIGN	EA	5
634-1200	RIGHT OF WAY MARKERS	EA	50
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	50
636-2070	GALV STEEL POST, TP 7	LF	100
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	5480
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	175
653-1804	THERMOPLASTIC SOLID TRAF STRIPING, 8 IN, WHITE	LF	3775
668-1100	CATCH BASIN, GP 1	EA	7
668-2100	DRIP INLET	EA	2
668-4300	STORM SEWER MANHOLE, TP 1	EA	4
710-9000	PERMANENT SOIL REINFORCING MAT	SY	275
754-4000	WASTE RECEPTACLE UNIT	EA	5
ACC-0001	GRASSING, INCL FERTILIZER & LIME	SY	7000
ACC-0002	INSTALL BENCH	EA	5
ACC-0003	INSTALL BUS SHELTER	EA	5
ACC-0004	INSTALL SCHEDULE HOLDER	EA	5
ACC-0005	INSTALL SOLAR LIGHT	EA	5

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE:
DETAILED ESTIMATE

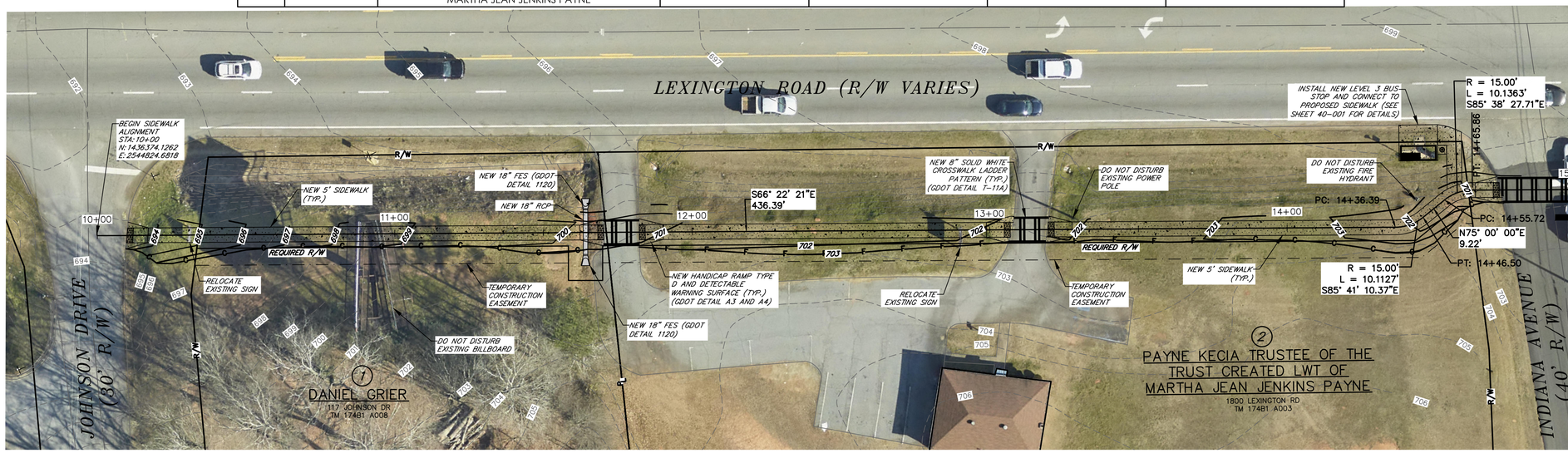
PROJECT NAME
LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
APRIL 27, 2022

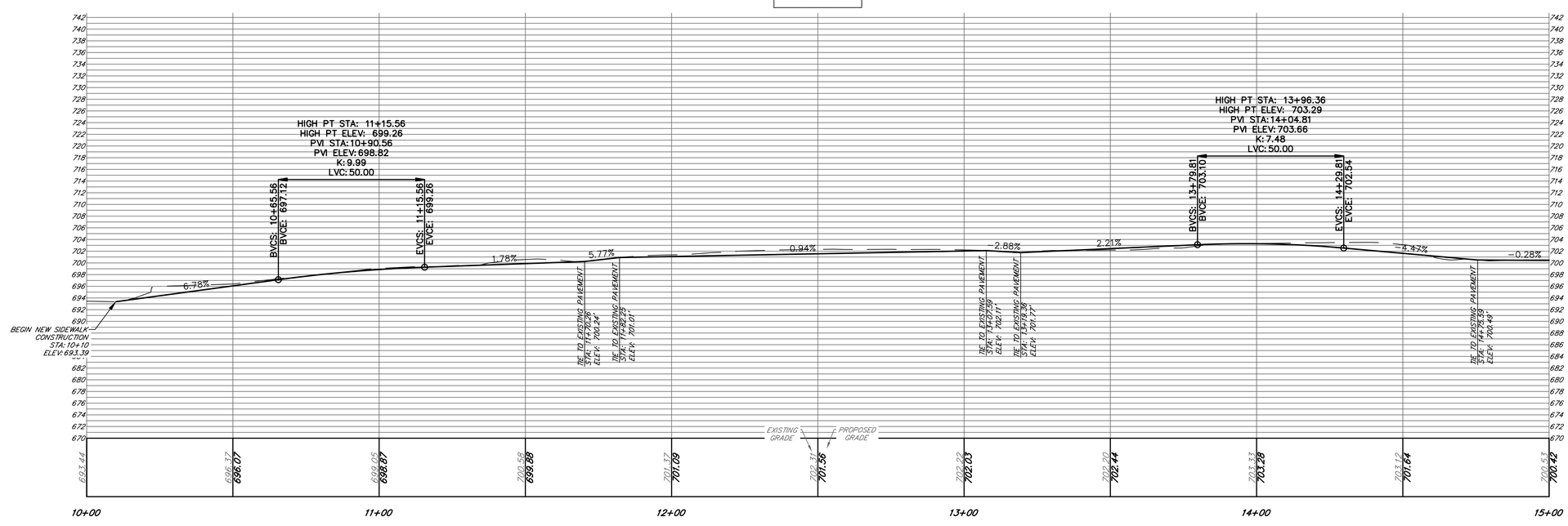
Sheet:
09-001

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
1	174B1 A008	DANIEL GRIER	117 JOHNSON DRIVE	4320 SF	730 SF	-
2	174B1 A003	PAYNE KECIA TRUSTEE OF THE TRUST CREATED LWT OF MARTHA JEAN JENKINS PAYNE	1800 LEXINGTON ROAD	9280 SF	1685 SF	-



1" = 20'

H: 1" = 20'
V: 1" = 10'



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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

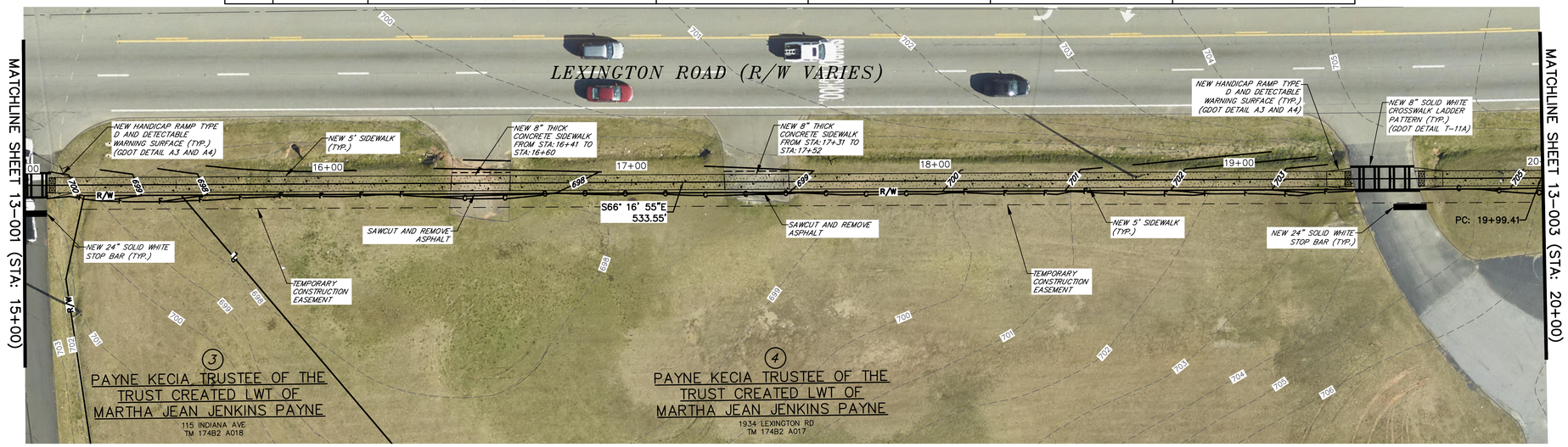
PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-001

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
3	174B2 A018	PAYNE KECIA TRUSTEE OF THE TRUST CREATED LWT OF MARTHA JEAN JENKINS PAYNE	115 INDIANA AVENUE	-	160 SF	-
4	174B2 A017	PAYNE KECIA TRUSTEE OF THE TRUST CREATED LWT OF MARTHA JEAN JENKINS PAYNE	1934 LEXINGTON ROAD	-	2800 SF	-



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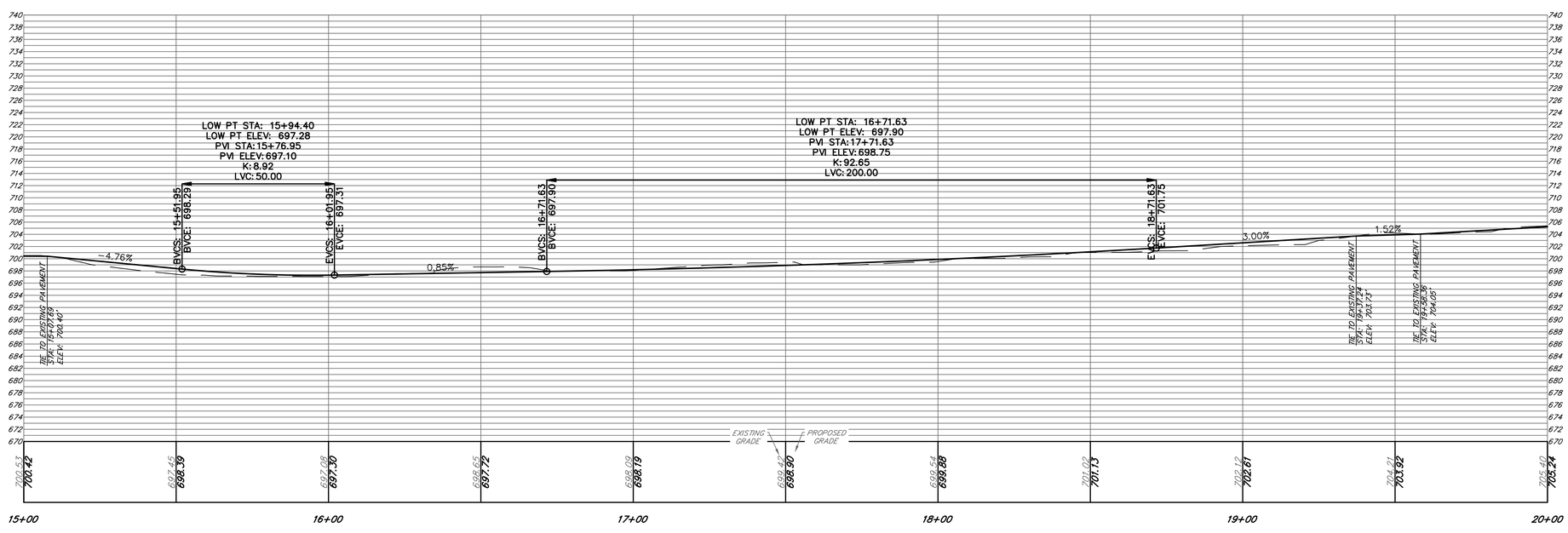

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE IN FEET: 20 0 20

PROJECT INFORMATION
JOB NO: 19022041
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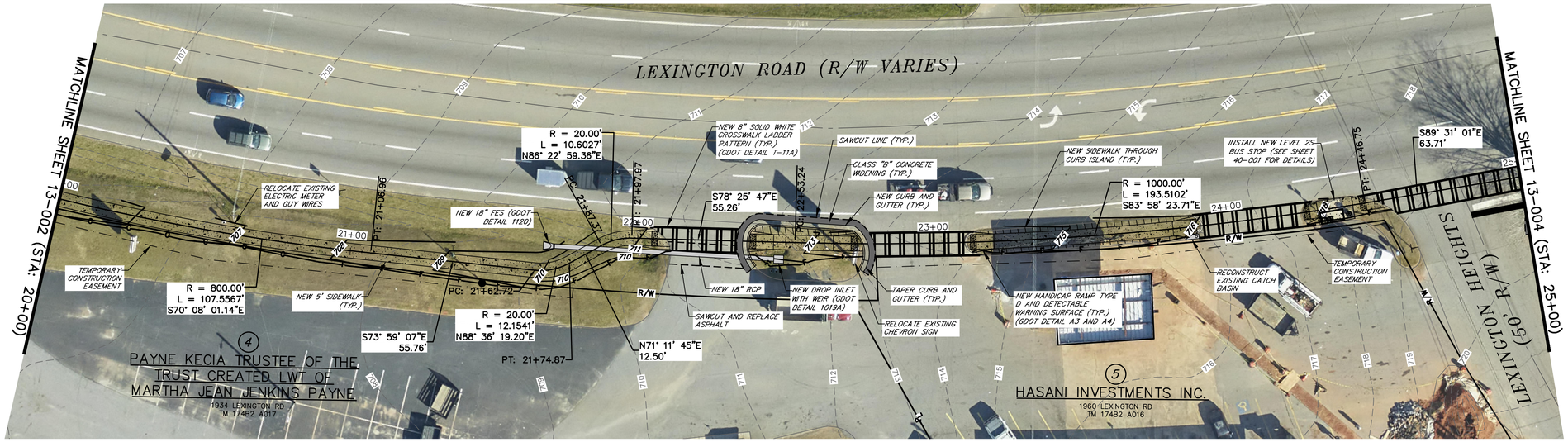
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-002

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
4	174B2 A017	PAYNE KECIA TRUSTEE OF THE TRUST CREATED LWT OF MARTHA JEAN JENKINS PAYNE	1934 LEXINGTON ROAD	-	2800 SF	-
5	174B2 A016	HASNANI INVESTMENTS INC.	1960 LEXINGTON ROAD	-	500 SF	-



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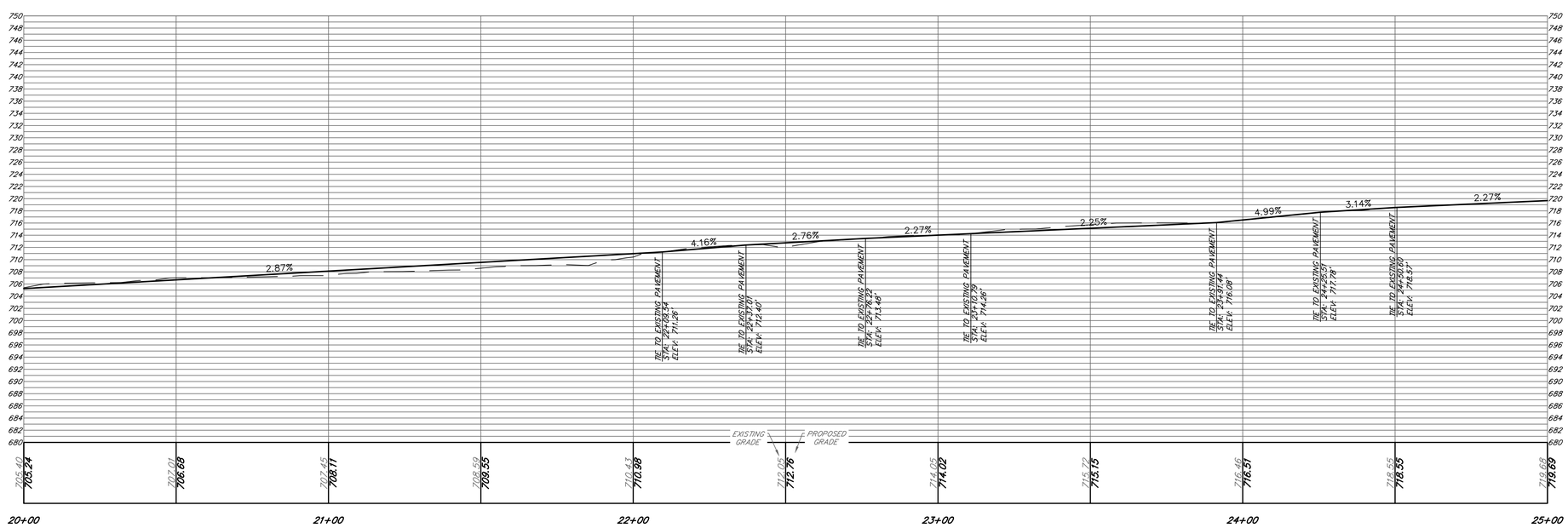

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

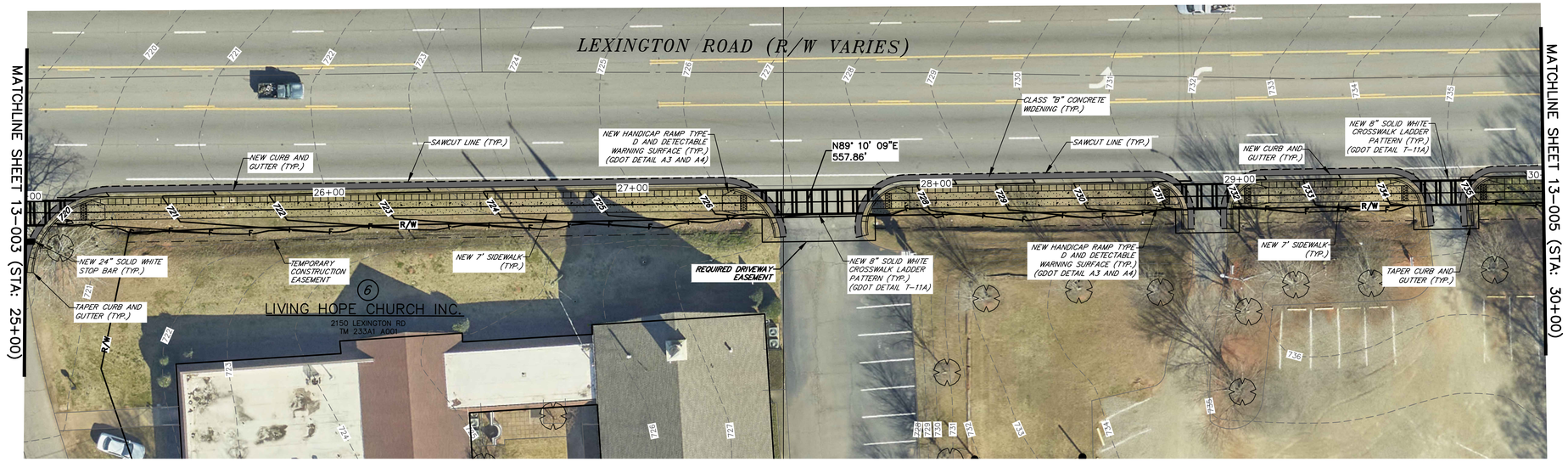
PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE IN FEET 20 0 20

PROJECT INFORMATION
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-003

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
6	233A1 A001	LIVING HOPE CHURCH INC.	2150 LEXINGTON ROAD	-	1975 SF	650 SF



1" = 20'

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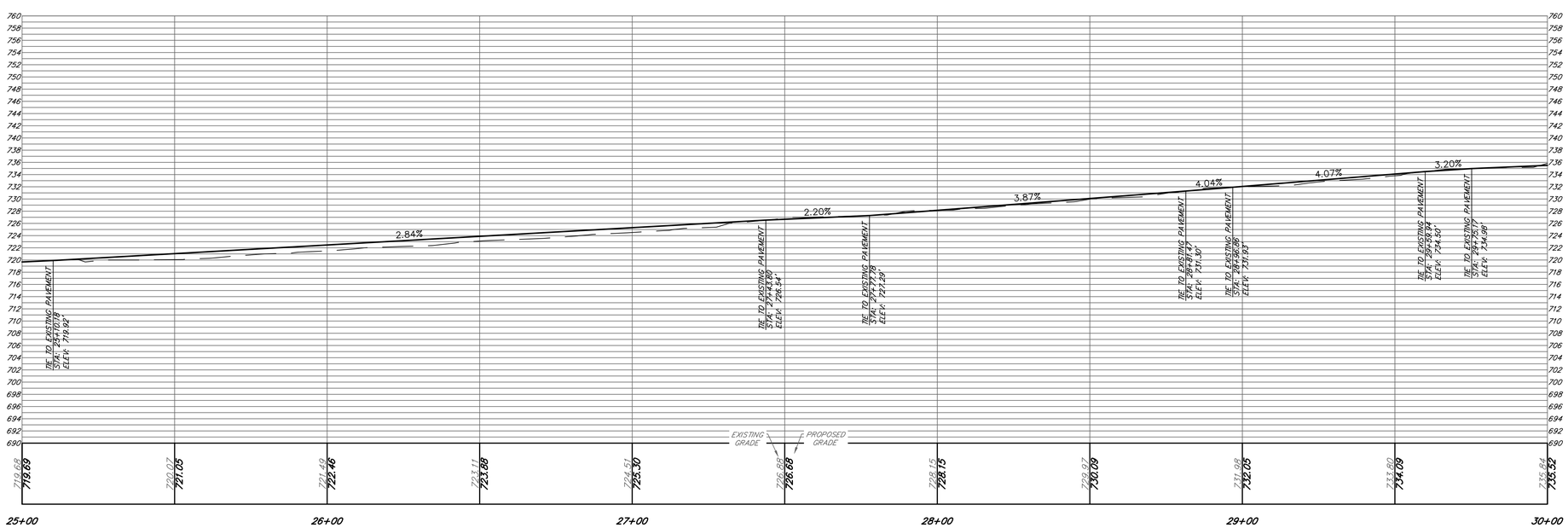
V: 1" = 10'



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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

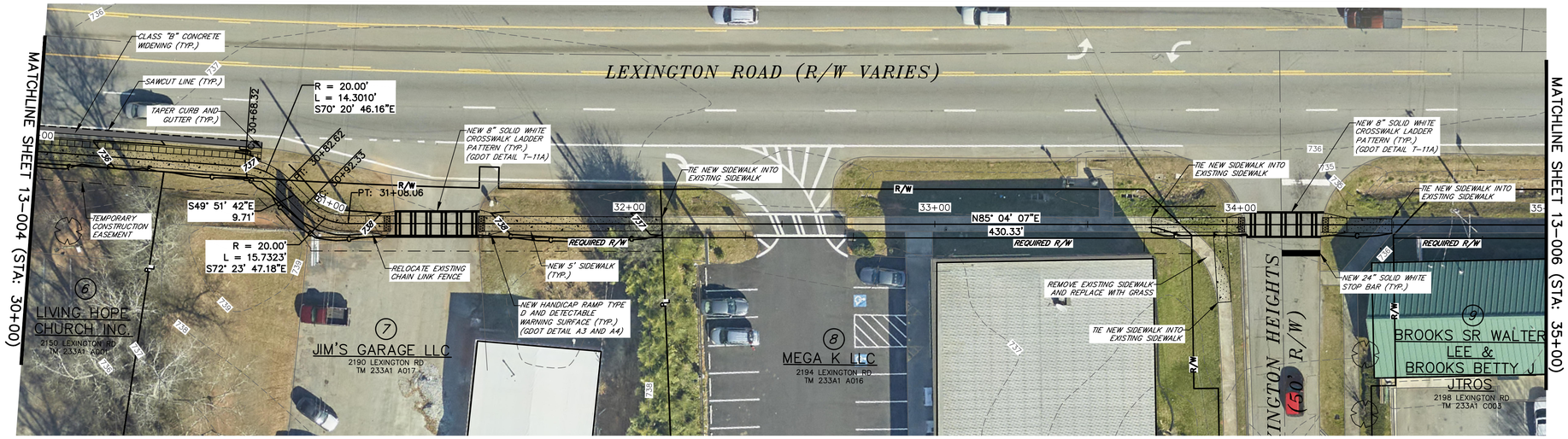
PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE IN FEET 20 0 20

PROJECT INFORMATION
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-004

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
6	233A1 A001	LIVING HOPE CHURCH INC.	2150 LEXINGTON ROAD	-	1975 SF	650 SF
7	233A1 A017	JIM'S GARAGE LLC	2190 LEXINGTON ROAD	2075 SF	790 SF	-
8	233A1 A016	MEGA K LLC	2194 LEXINGTON ROAD	2660 SF	85 SF	-
9	233A1 C003	BROOKS SR WALTER LEE & BROOKS BETTY J JTROS	2198 LEXINGTON ROAD	1390 SF	-	-



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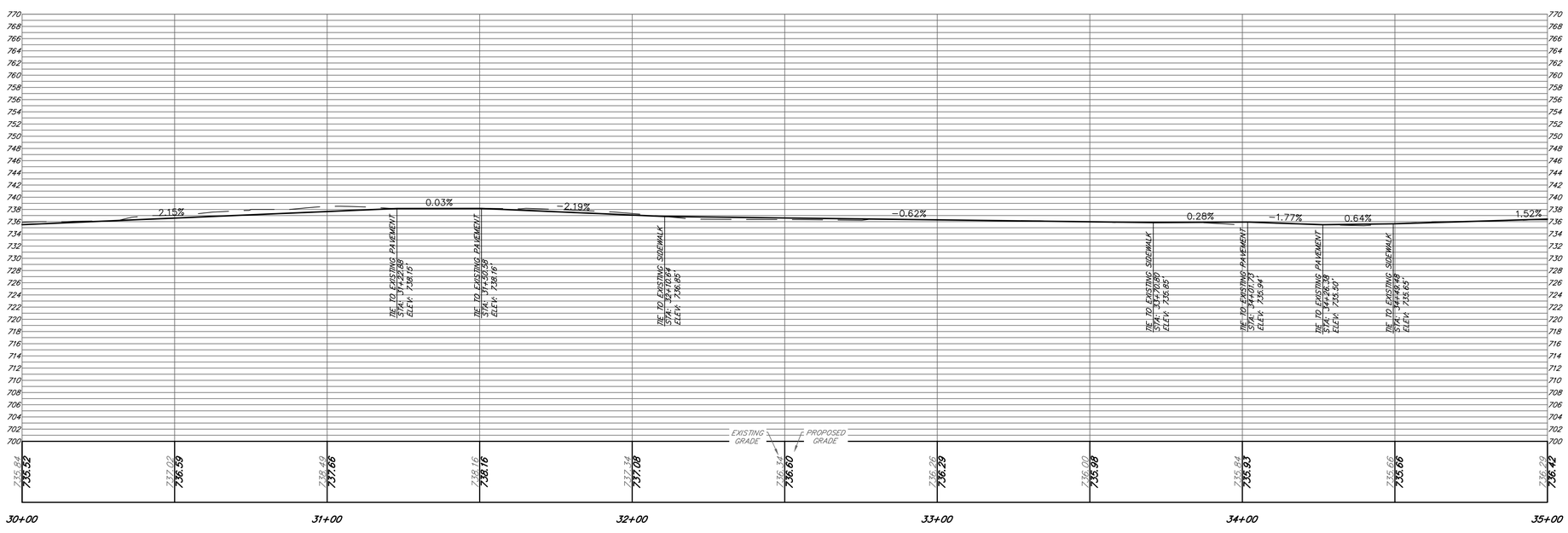

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REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE IN FEET: 20 0 20

PROJECT INFORMATION
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Sheet: 13-005

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
10	233A1 C002	WOMACK STEPHAN ANSLEY	LEXINGTON ROAD	1380 SF	440 SF	-
11	233A1 C001	WOMACK STEPHAN ANSLEY	2200 LEXINGTON ROAD	1090 SF	465 SF	-

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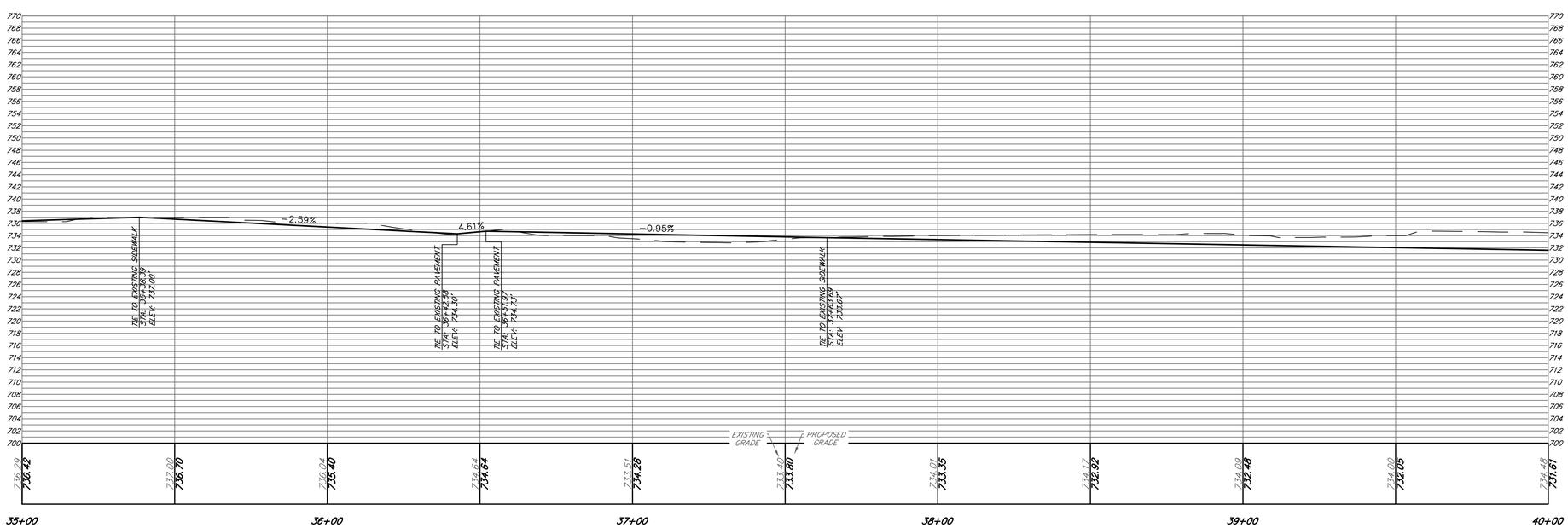

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SCALE 20 0 20 IN FEET

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ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-006

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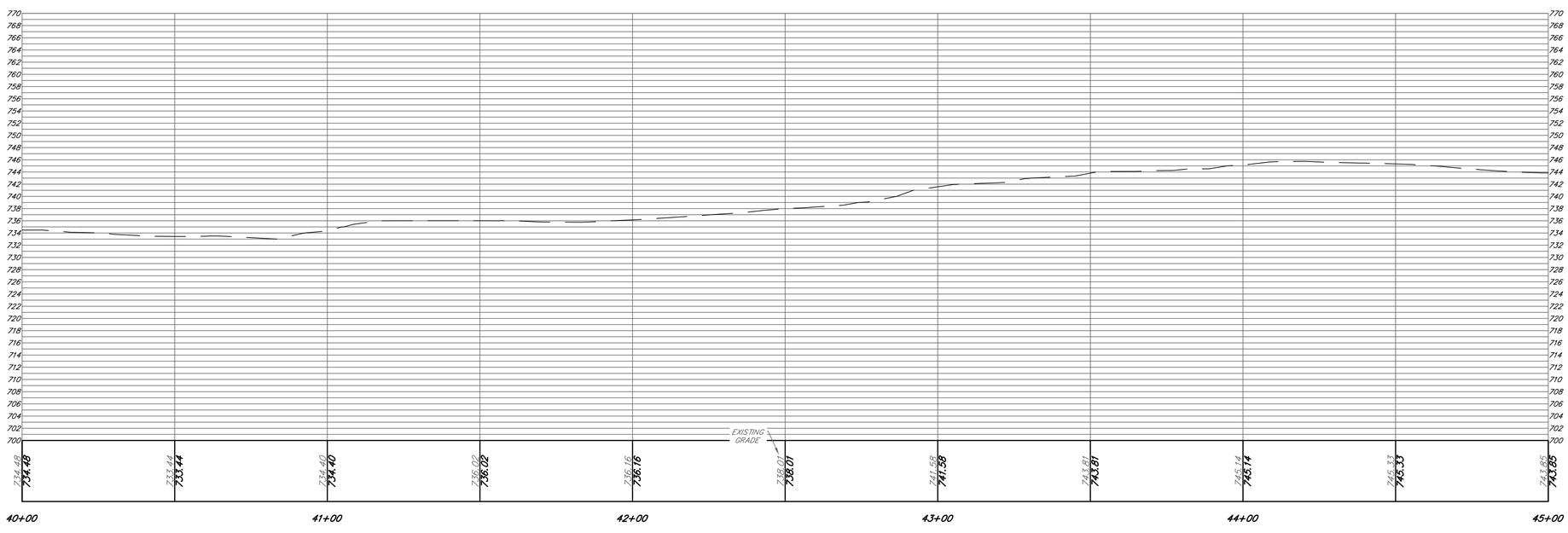

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Sheet: 13-007

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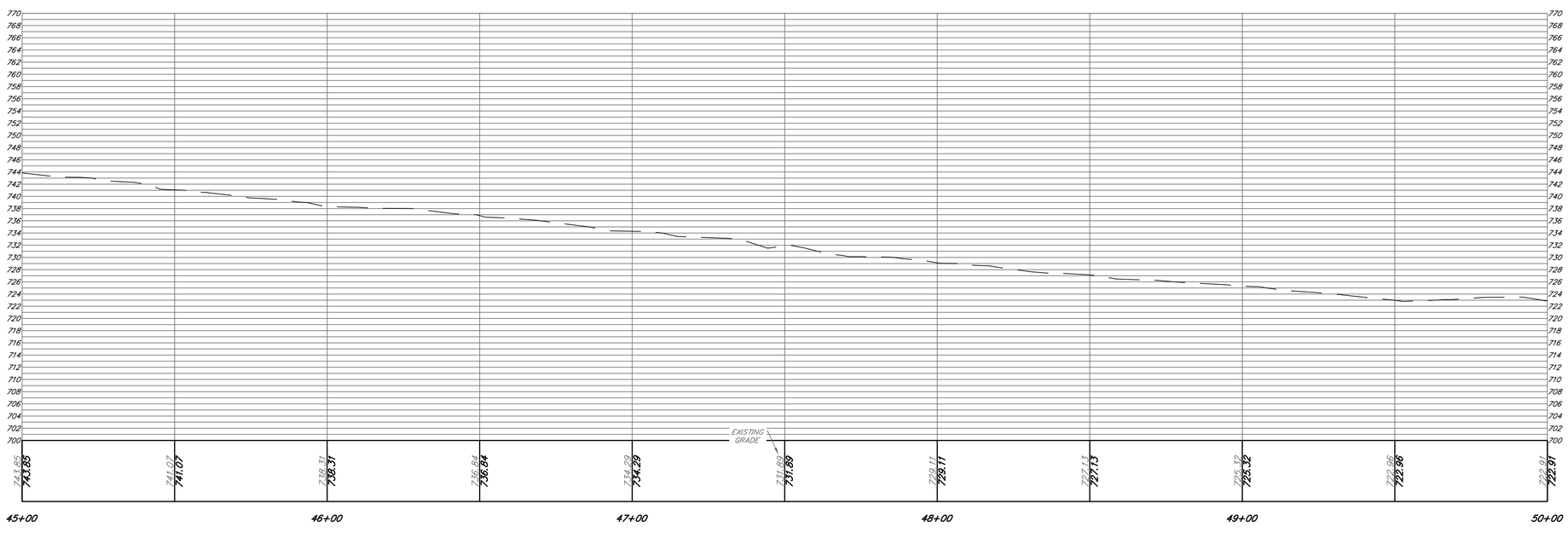

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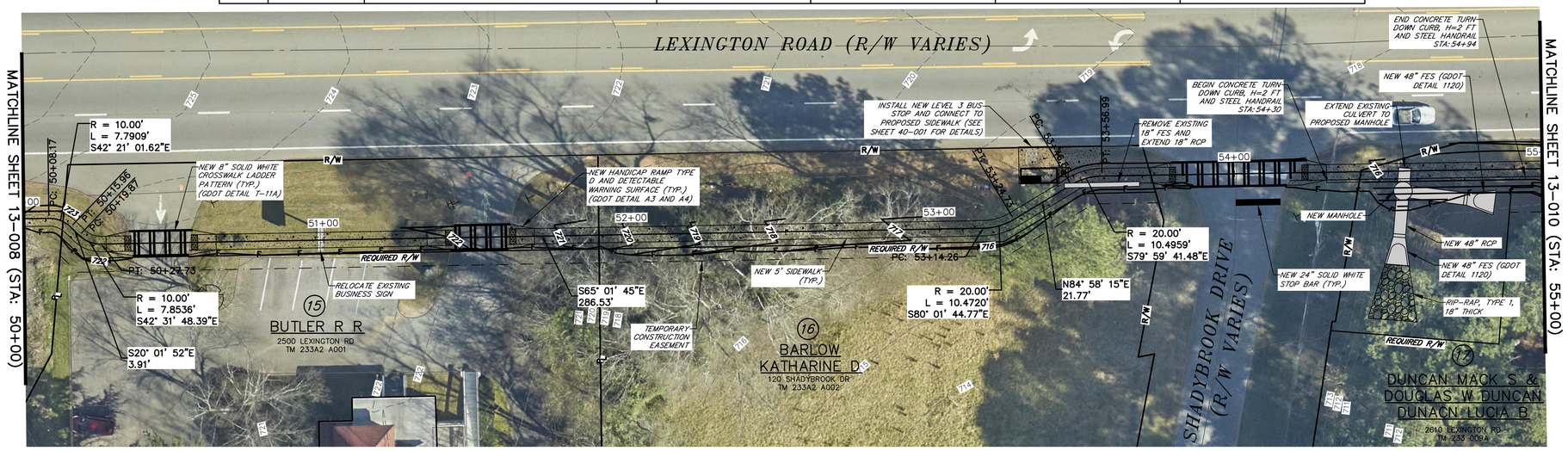
Sheet: 13-008

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
15	233A2 A001	BUTLER R R	2500 LEXINGTON ROAD	5270 SF	800 SF	-
16	233A2 A002	BARLOW KATHARINE D	120 SHADYBROOK DRIVE	4930 SF	820 SF	-
17	233 009A	DUNCAN MACKS S & DOUGLAS W DUNCAN DUNCAN LUCIA B	2610 LEXINGTON ROAD	4820 SF	2260 SF	-



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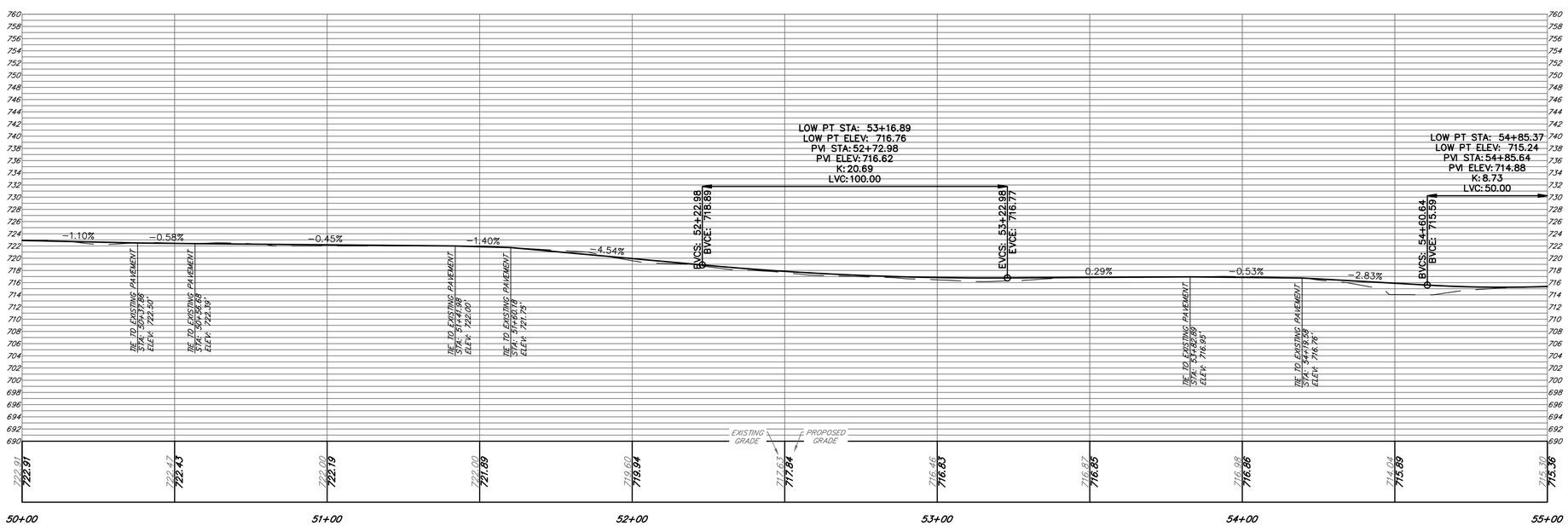

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PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

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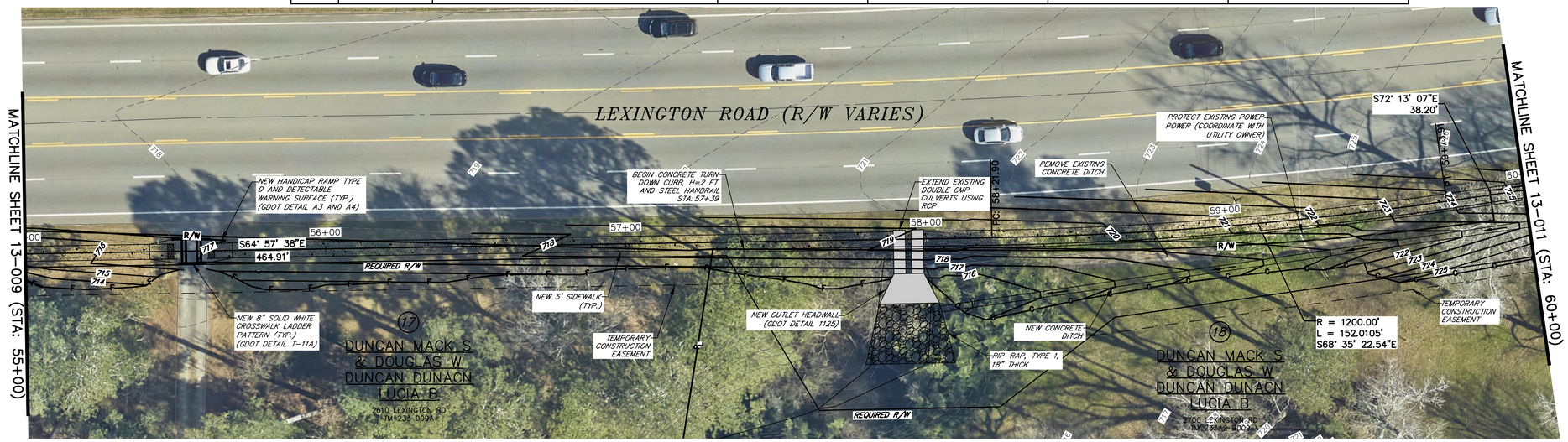
Sheet: 13-009

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
17	233 009A	DUNCAN MACKS S & DOUGLAS W DUNCAN DUNCAN LUCIA B	2610 LEXINGTON ROAD	4815 SF	2260 SF	-
18	233A2 B009	DUNCAN MACK S & DOUGLAS DUNCAN & DUNCAN LUCIA	2700 LEXINGTON ROAD	9890 SF	1150 SF	-



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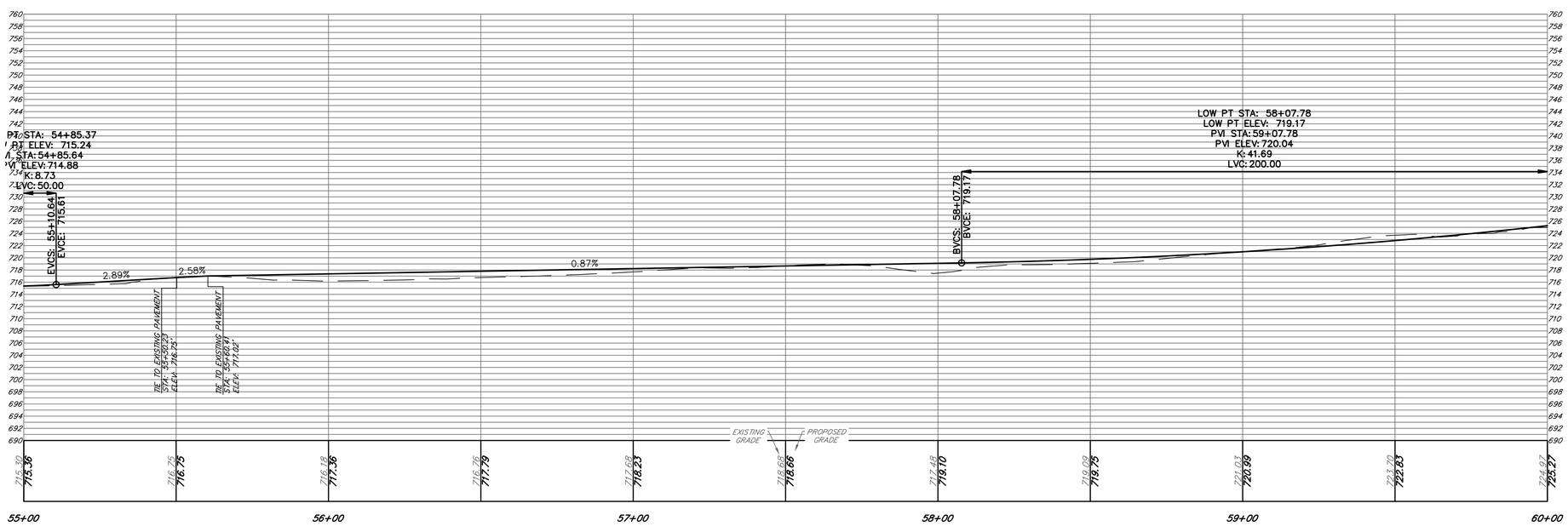

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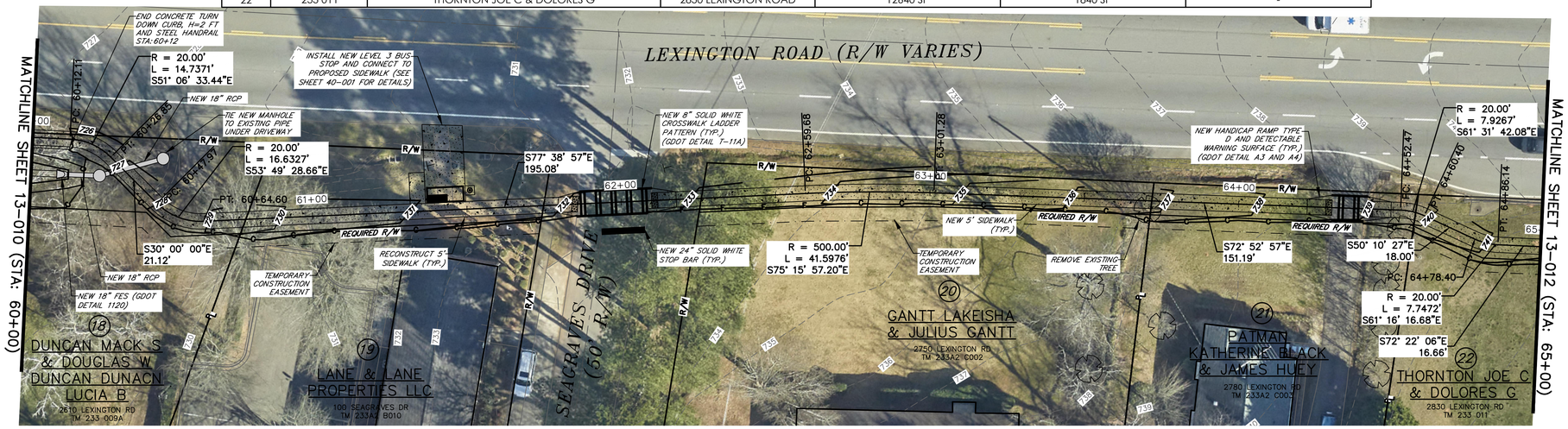
Sheet:
13-010

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
18	233A2 B009	DUNCAN MACK S & DOUGLAS DUNCAN & DUNCAN LUCIA	2700 LEXINGTON ROAD	9890 SF	1150 SF	-
19	233A2 B010	LANE & LANE PROPERTIES LLC	100 SEAGRAVES DRIVE	2340 SF	450 SF	-
20	233A2 C002	GANTT LAKEISHA & JULIUS GANTT	2750 LEXINGTON ROAD	1740 SF	660 SF	-
21	233A2 C003	PATMAN KATHERINE BLACK & JAMES HUEY	2780 LEXINGTON ROAD	870 SF	390 SF	-
22	233 011	THORNTON JOE C & DOLORES G	2830 LEXINGTON ROAD	12640 SF	1840 SF	-



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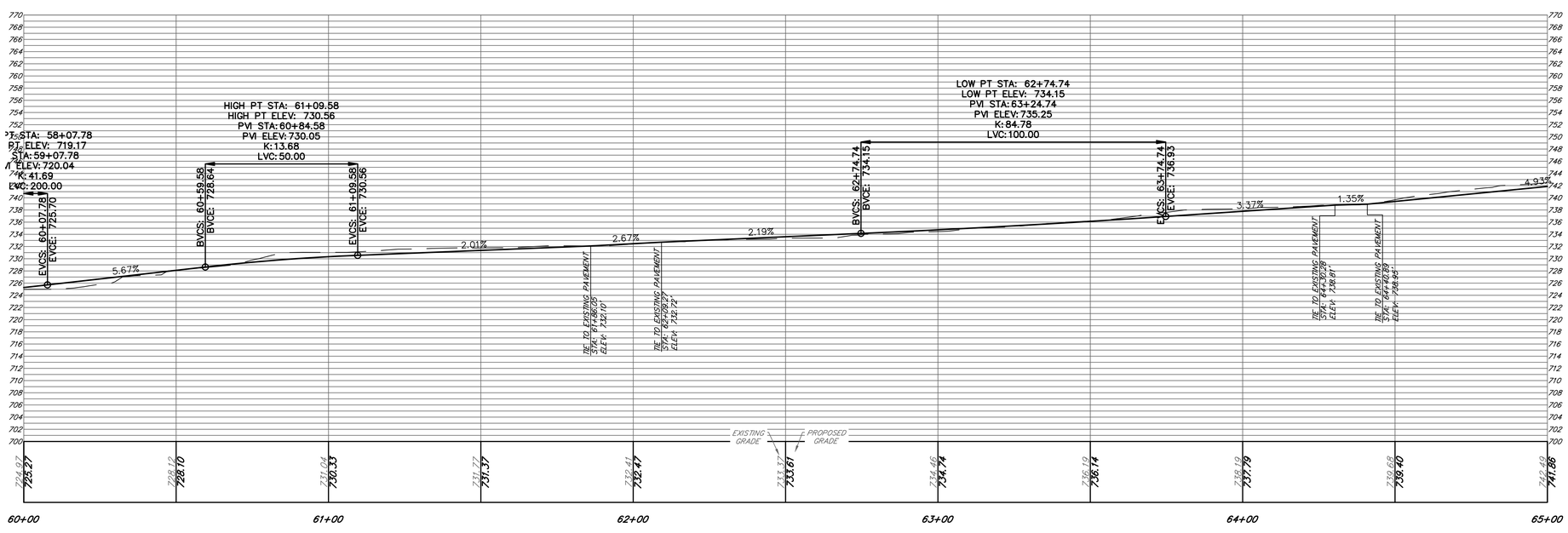

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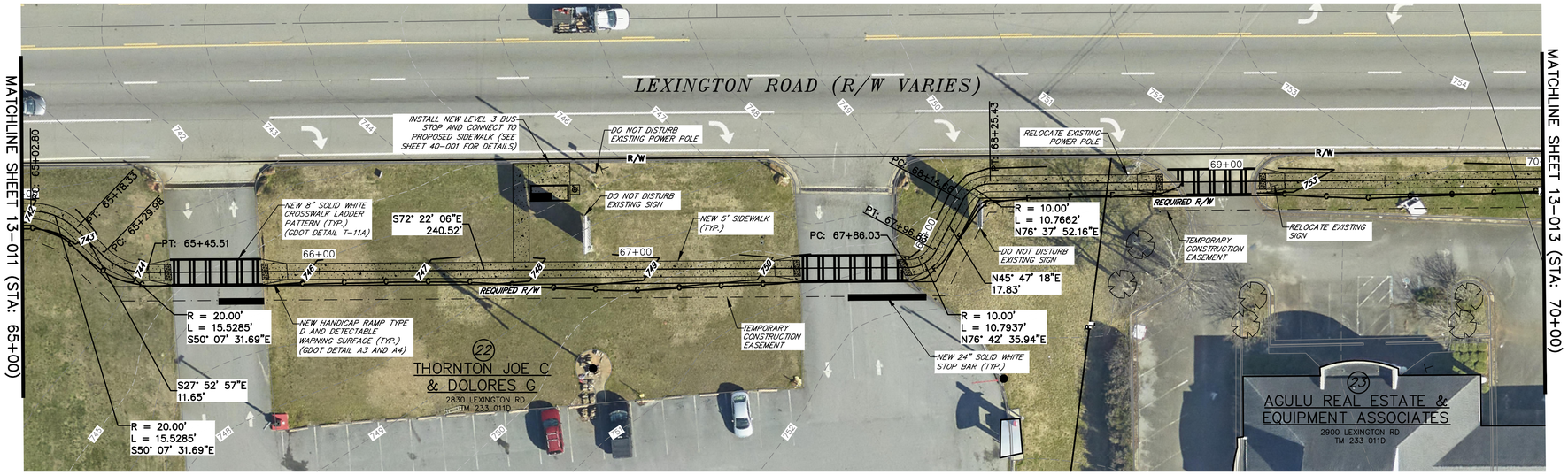
Sheet: 13-011

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
22	233 011	THORNTON JOE C & DOLORES G	2830 LEXINGTON ROAD	12640 SF	1840 SF	-
23	233 011D	AGULU REAL ESTATE & EQUIPMENT ASSOCIATES	2900 LEXINGTON ROAD	2830 SF	970 SF	-



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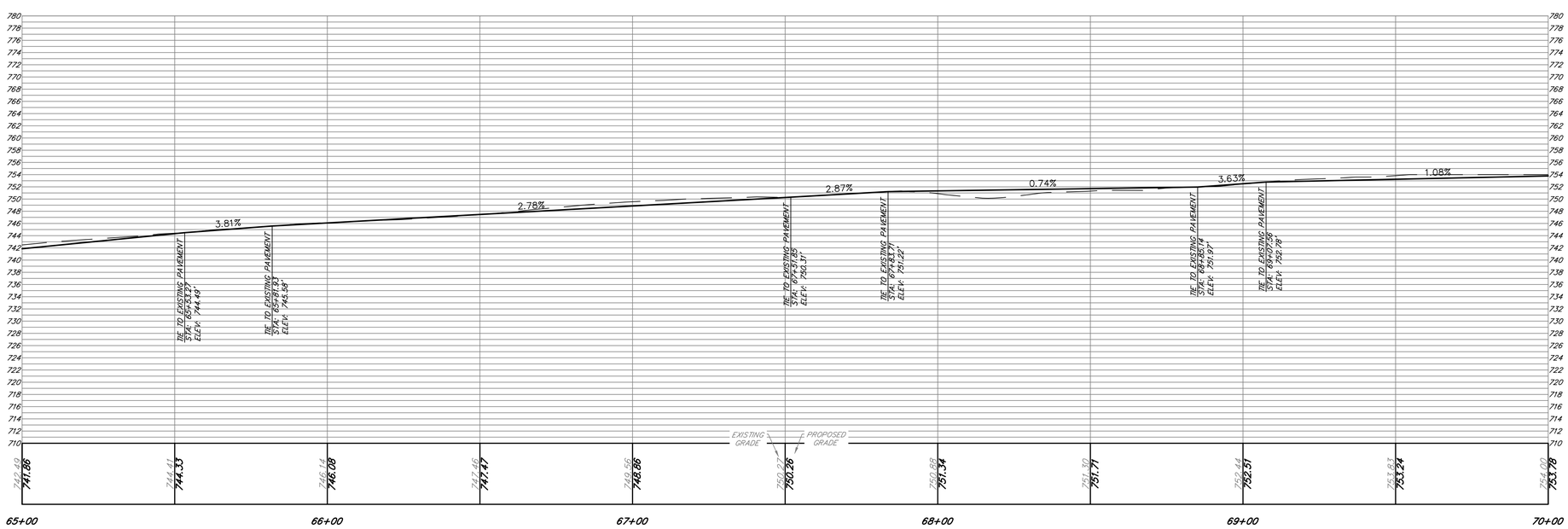

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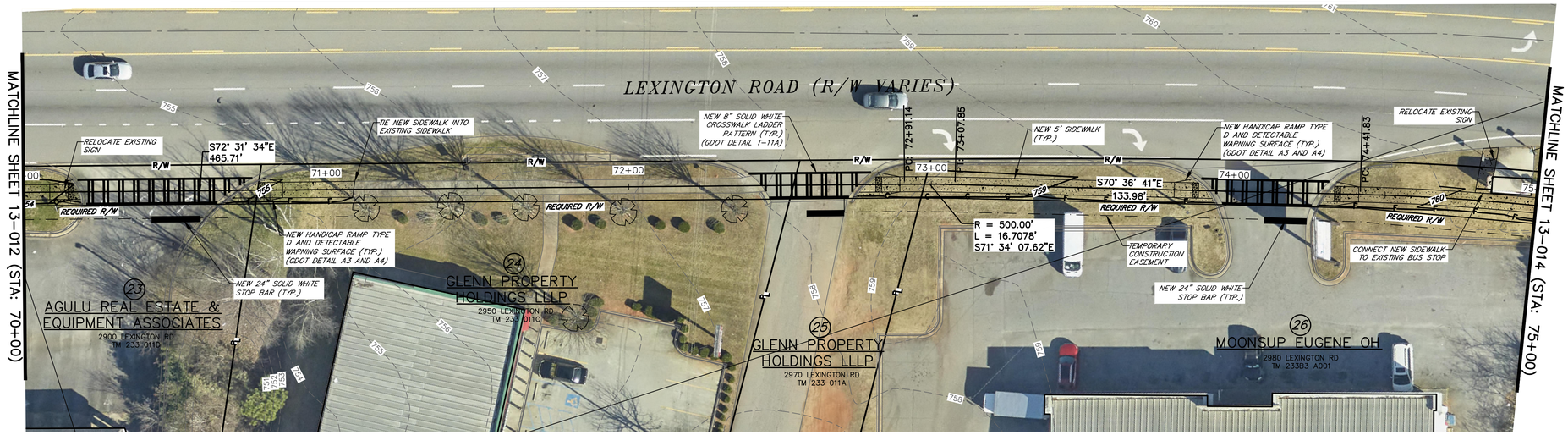
PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
23	233 011D	AGULU REAL ESTATE & EQUIPMENT ASSOCIATES	2900 LEXINGTON ROAD	2830 SF	970 SF	-
24	233 011C	GLENN PROPERTY HOLDINGS LLLP	2950 LEXINGTON ROAD	2290 SF	170 SF	-
25	233 011A	GLENN PROPERTY HOLDINGS LLLP	2970 LEXINGTON ROAD	560 SF	120 SF	-
26	233B3 A001	MOONSUP EUGENE OH	2980 LEXINGTON ROAD	3615 SF	1065 SF	-



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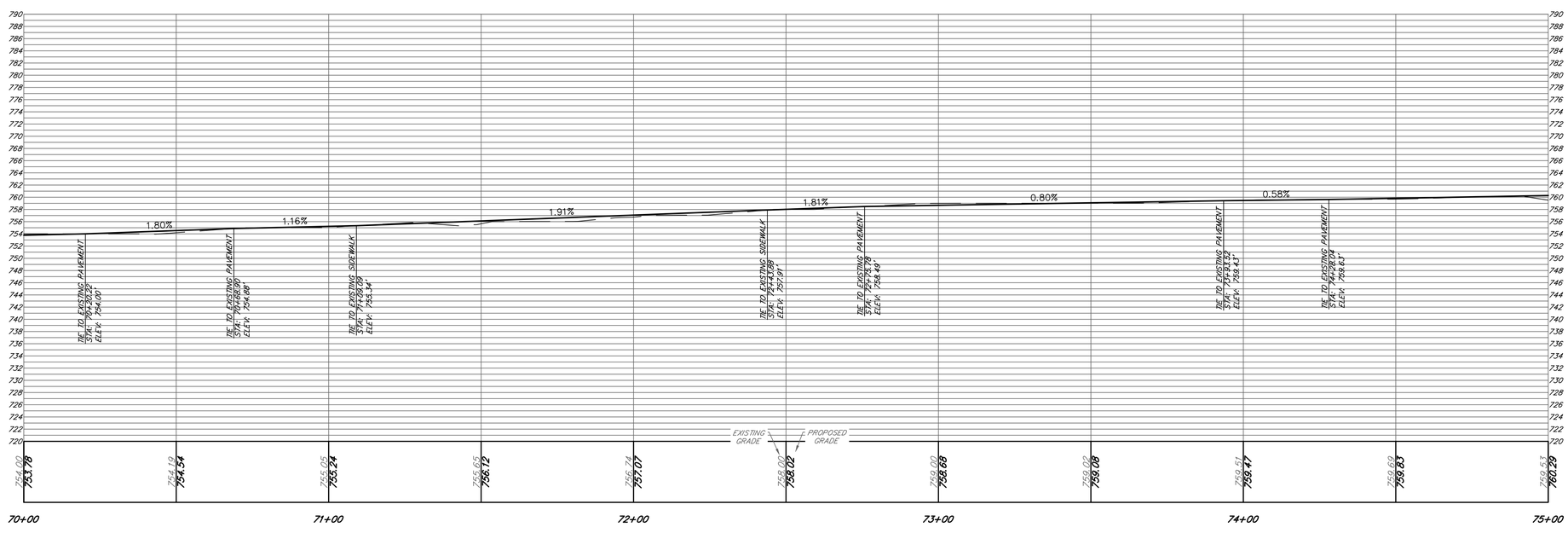

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20 0 20
SCALE IN FEET

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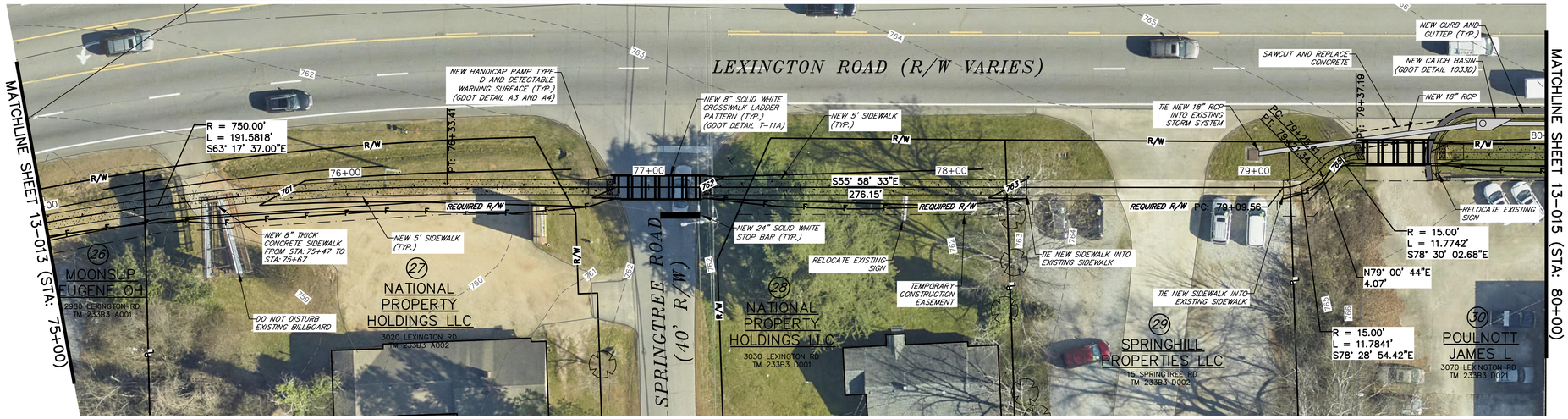
Sheet: 13-013

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
26	233B3 A001	MOONSUP EUGENE OH	2980 LEXINGTON ROAD	3615 SF	1065 SF	-
27	233B3 A002	NATIONAL PROPERTY HOLDINGS LLC	3020 LEXINGTON ROAD	2620 SF	640 SF	-
28	233B3 D001	NATIONAL PROPERTY HOLDINGS LLC	3030 LEXINGTON ROAD	1690 SF	400 SF	-
29	233B3 D002	SPRINGHILL PROPERTIES LLC	115 SPRINGTREE ROAD	1860 SF	60 SF	-
30	233B3 D021	POULNOTT JAMES L	3070 LEXINGTON ROAD	1340 SF	840 SF	-



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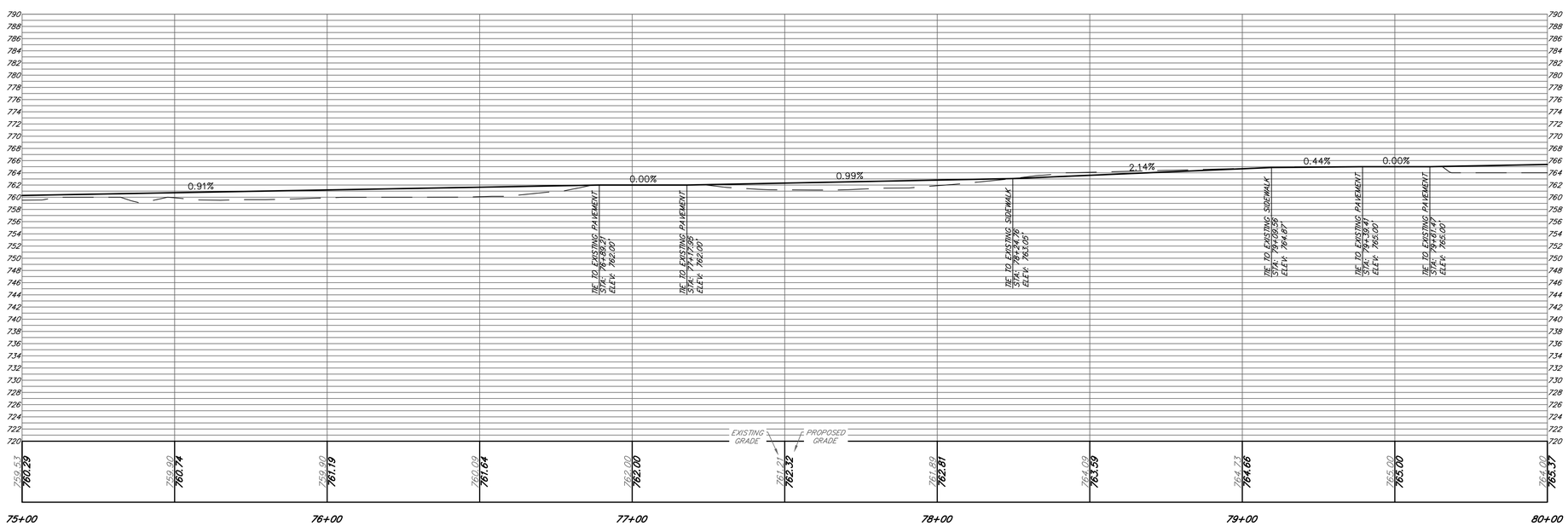

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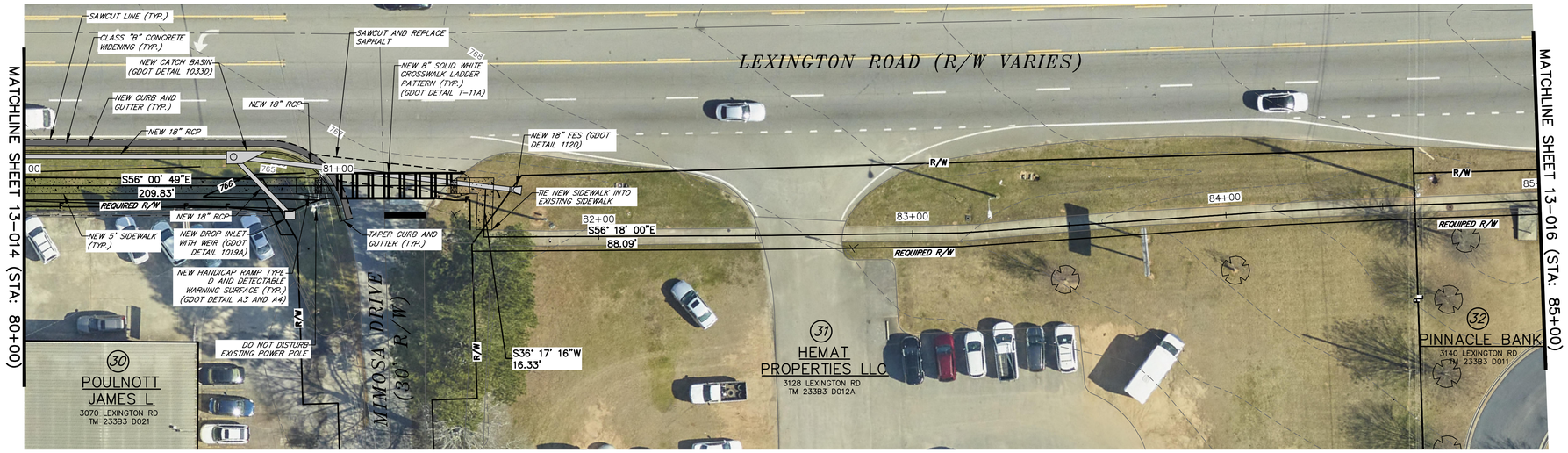
Sheet: 13-014

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
30	233B3 D021	POULNOTT JAMES L	3070 LEXINGTON ROAD	1360 SF	840 SF	-
31	233B3 D021A	HEMAT PROPERTIES LLC	3128 LEXINGTON ROAD	7240 SF	85 SF	-
32	233B3 D011	PINNACLE BANK	3140 LEXINGTON ROAD	3000 SF	-	-



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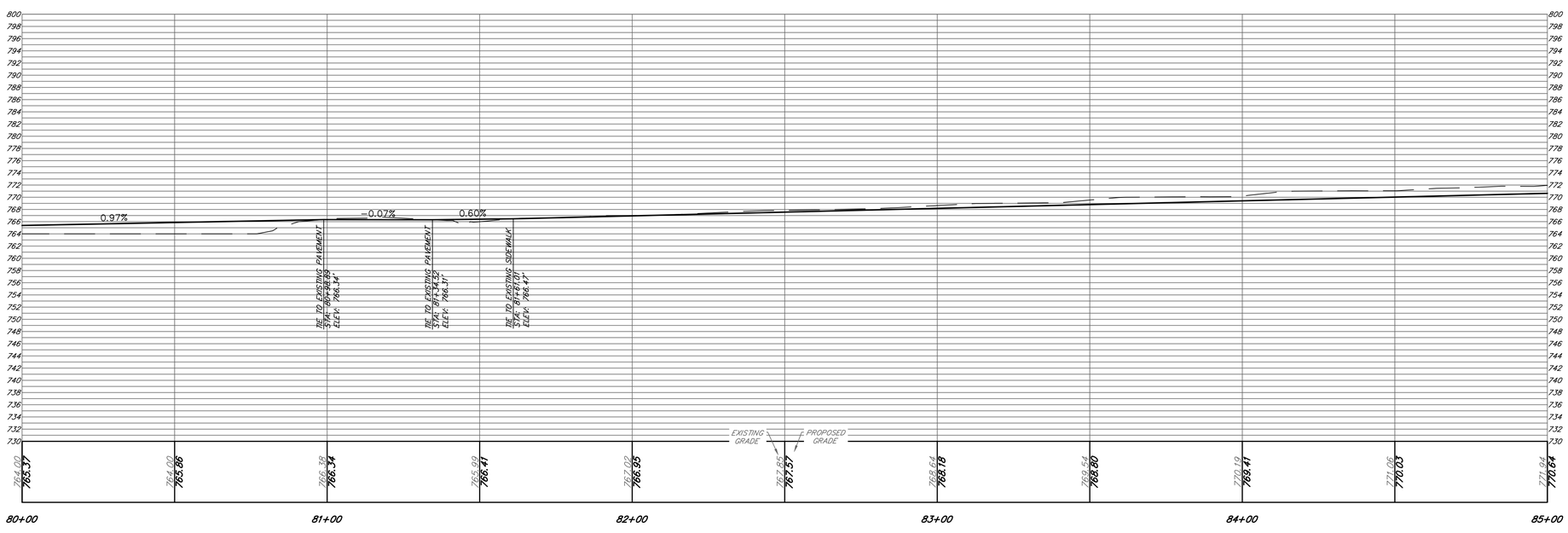

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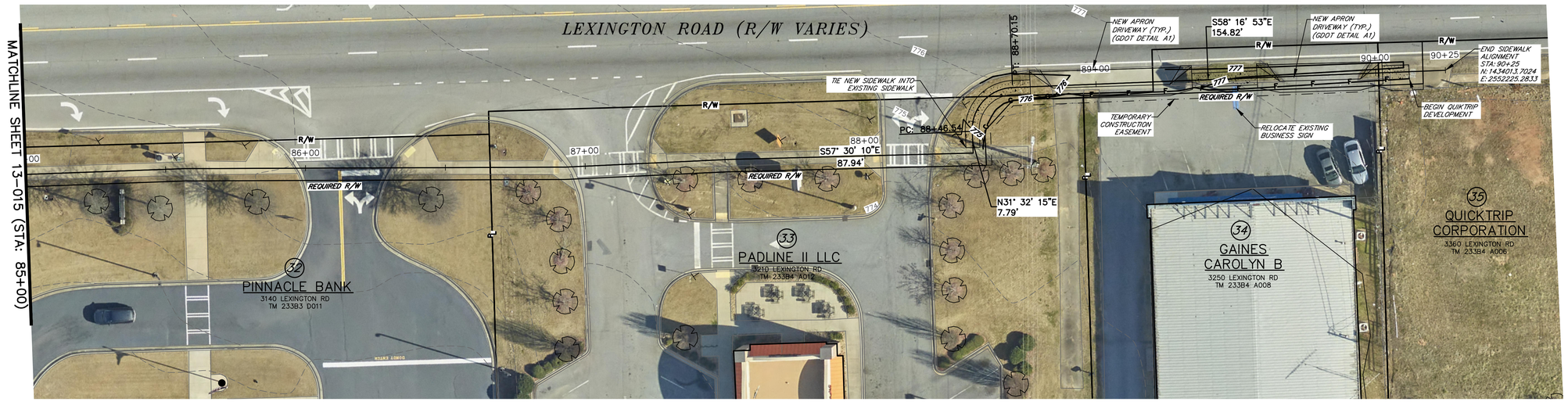
Sheet: 13-015

PROPERTY INFORMATION						
PARCEL NO.	TAX PARCEL I.D.	OWNER	STREET ADDRESS	REQUIRED RIGHT OF WAY	REQUIRED TEMPORARY CONSTRUCTION EASEMENT AREA	REQUIRED TEMPORARY DRIVEWAY EASEMENT
32	233B3 D011	PINNACLE BANK	3140 LEXINGTON ROAD	3000 SF	-	-
33	233B4 A012	PADLINE II LLC	3210 LEXINGTON ROAD	4460 SF	100 SF	-
34	233B4 A008	GAINES CAROLYN B	3250 LEXINGTON ROAD	1300 SF	220 SF	-
35	233B4 A006	QUIKTRIP CORPORATION	3360 LEXINGTON ROAD	245 SF	35 SF	-



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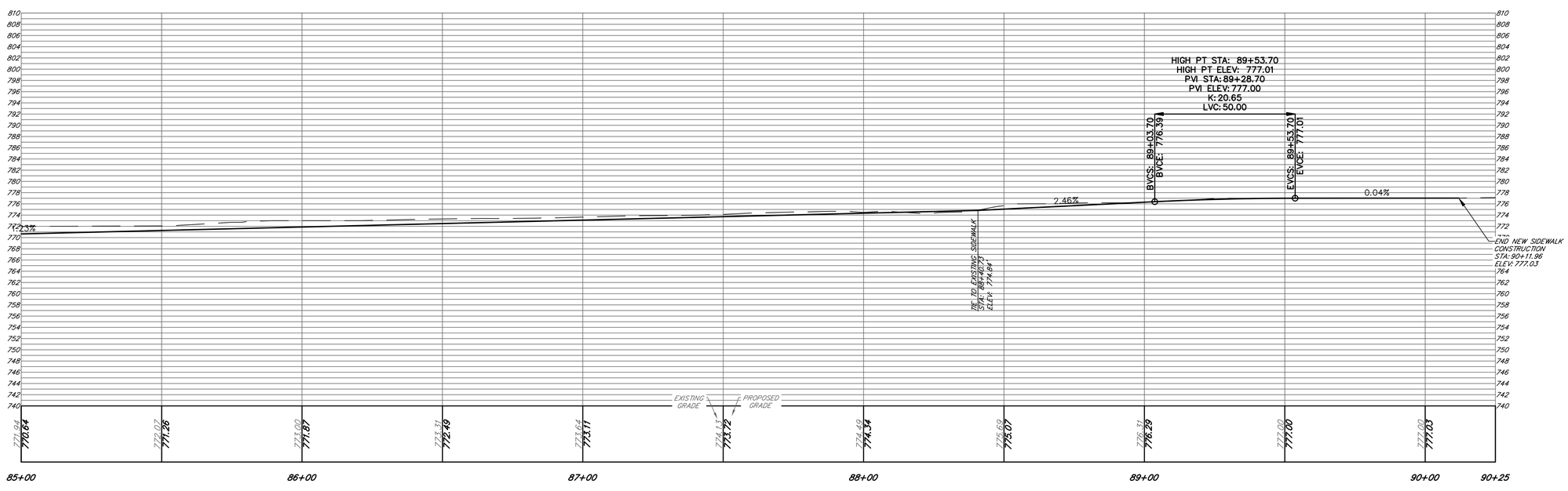

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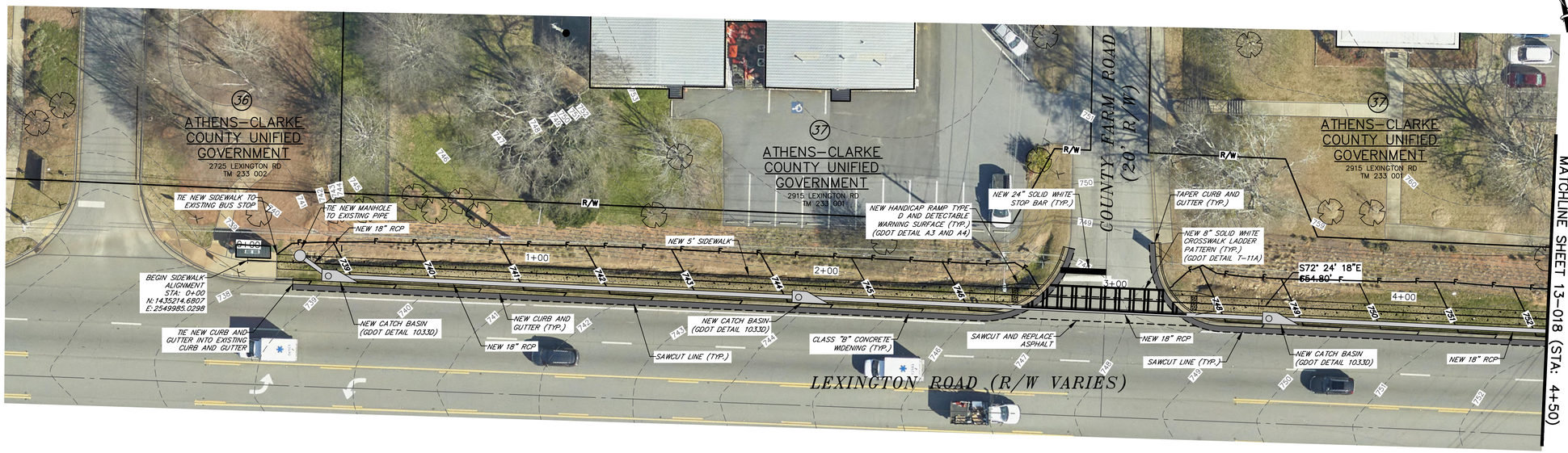
Sheet:
13-016



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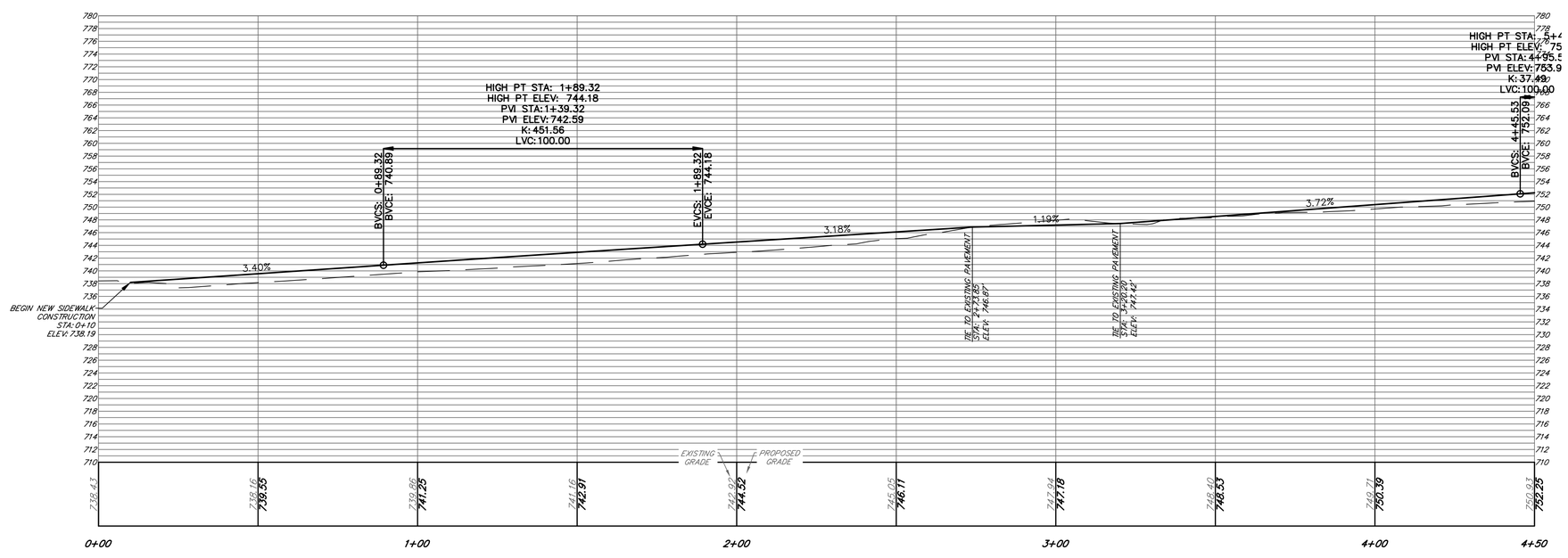

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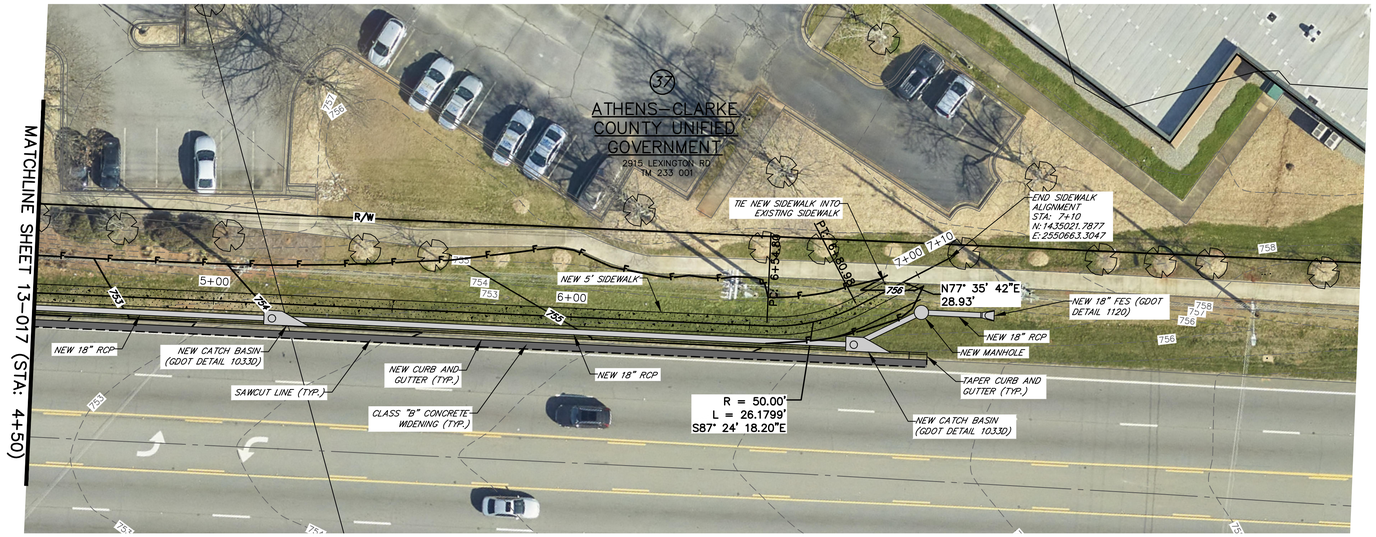

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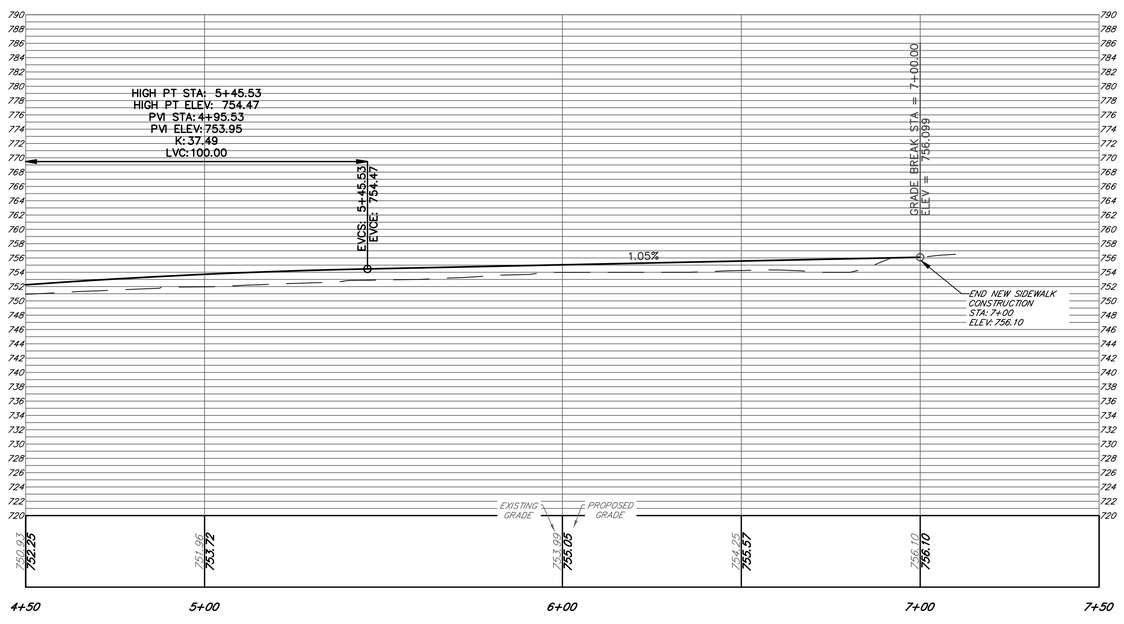

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GRID NORTH (GEORGIA EAST)

REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

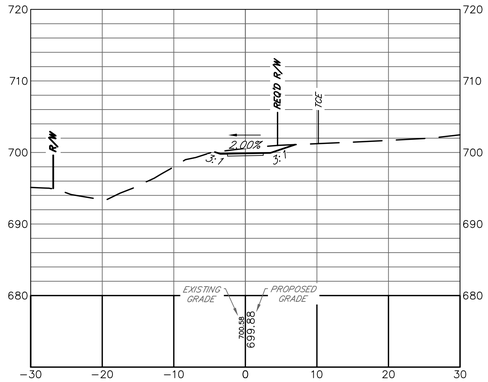
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 13-018

11+50



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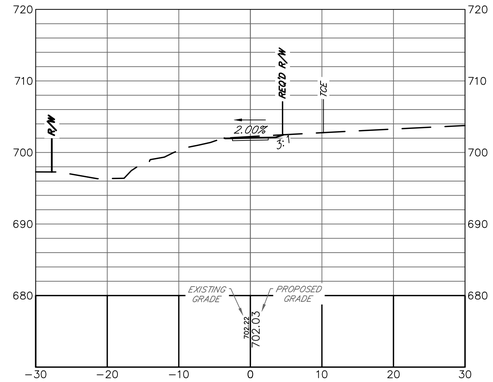

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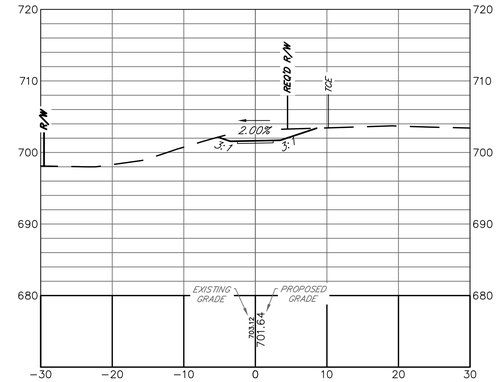

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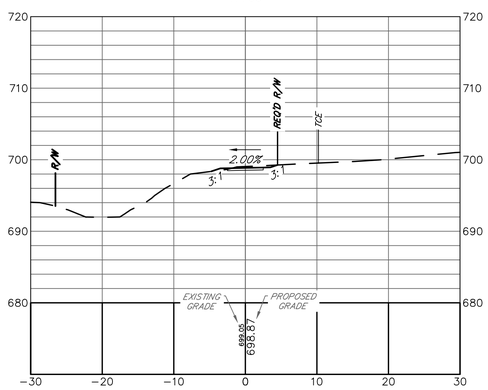

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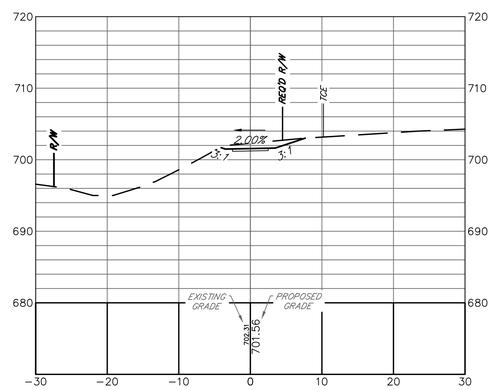

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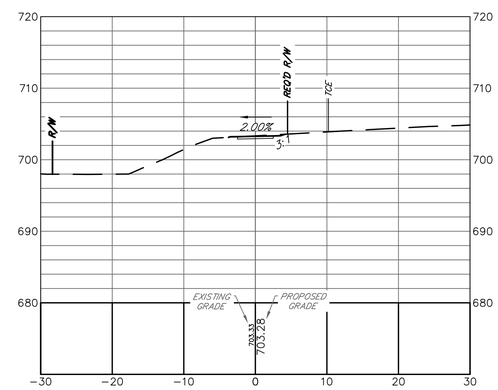

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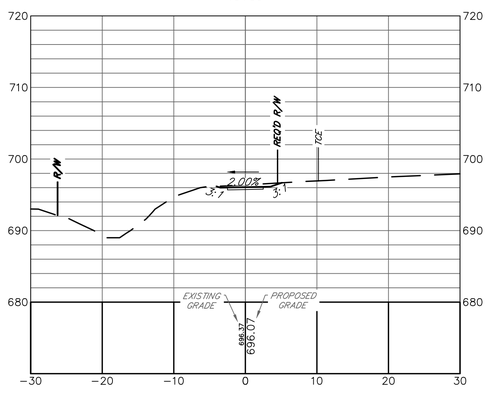

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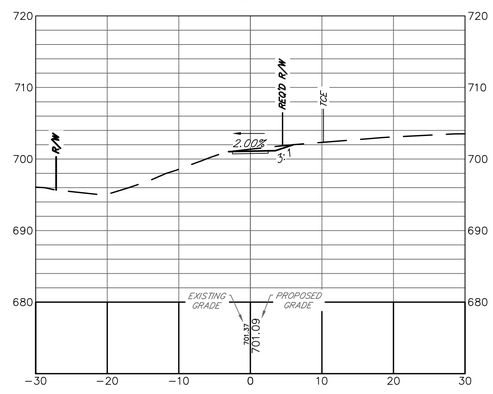

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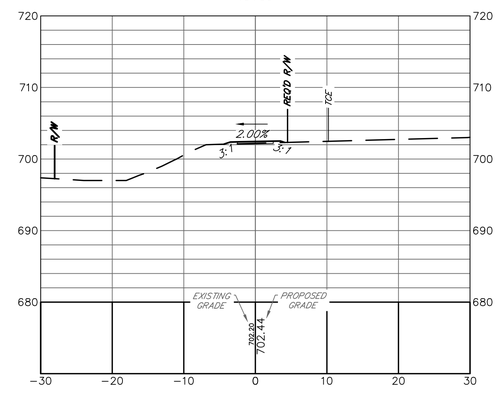

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-001

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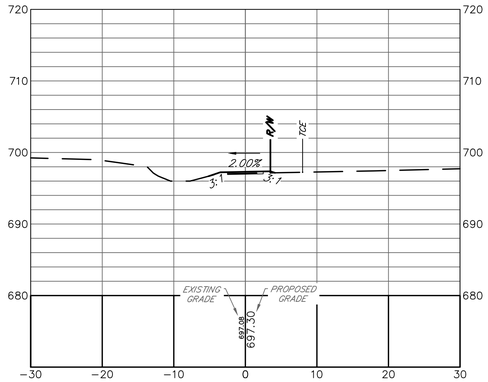

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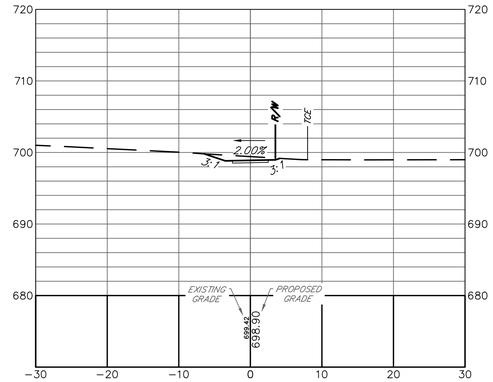

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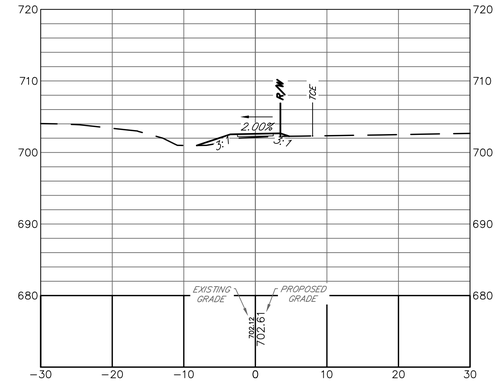

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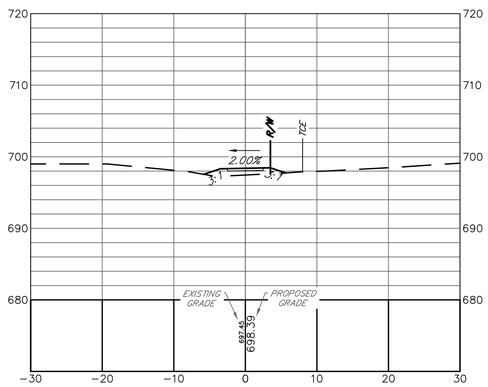

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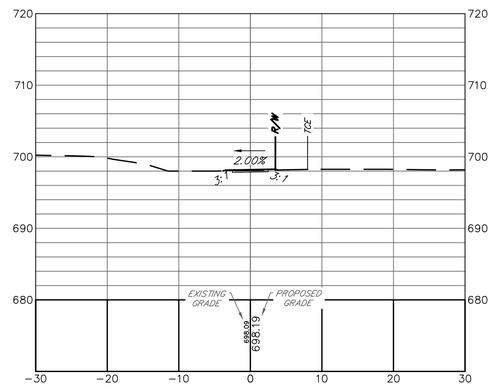

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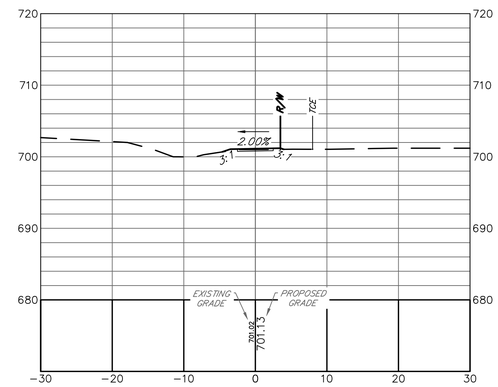

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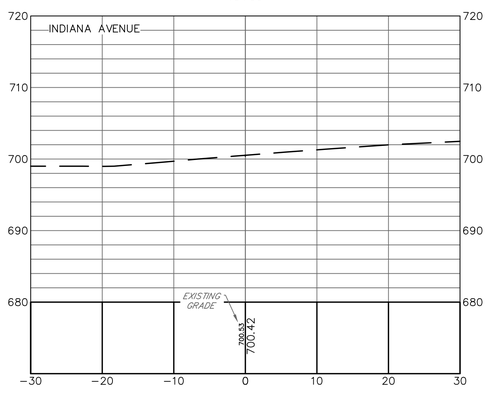

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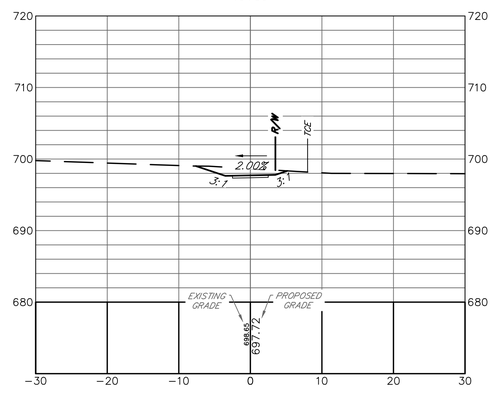

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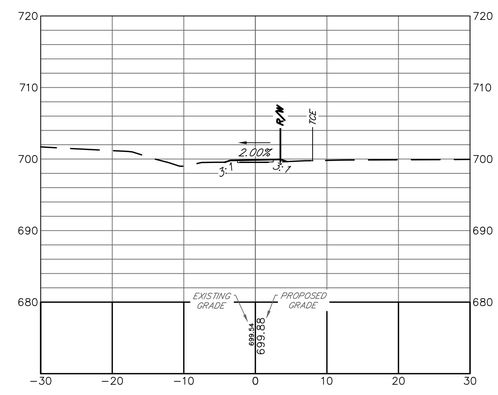

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

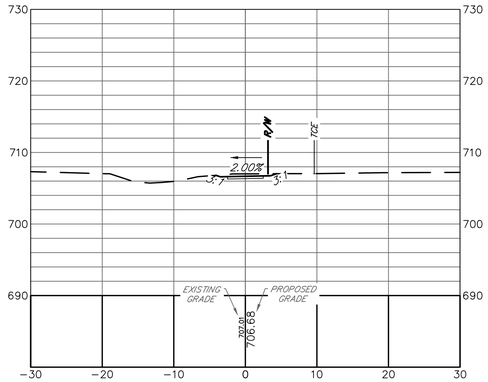
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-002

20+50



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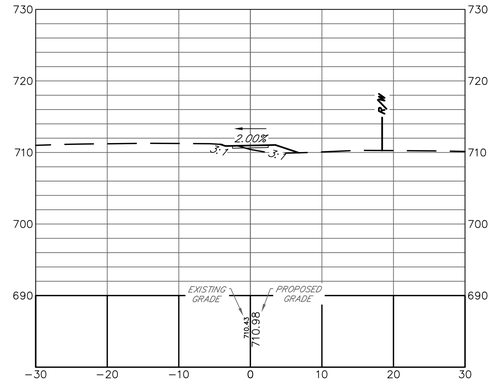

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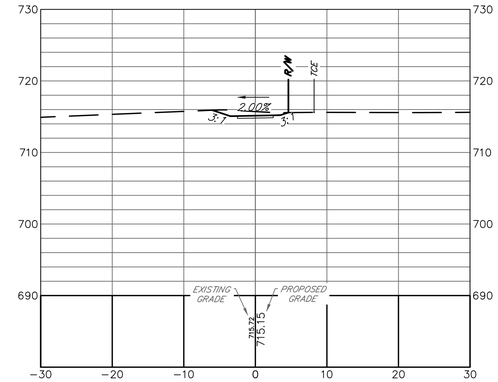

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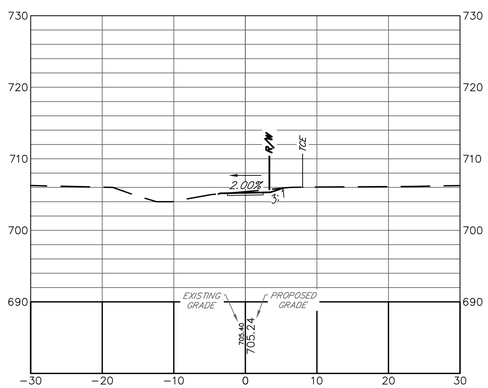

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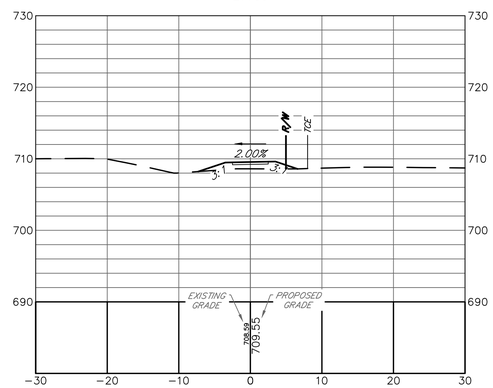

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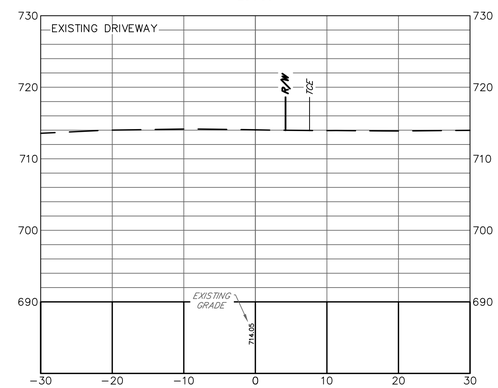

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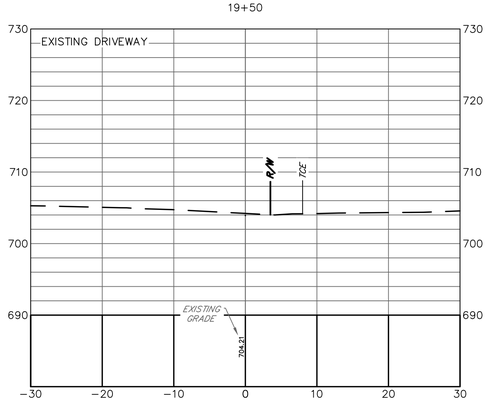

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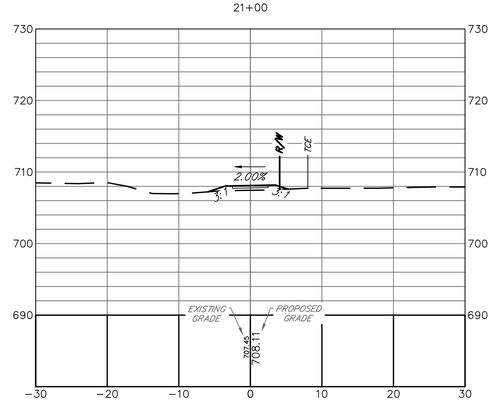

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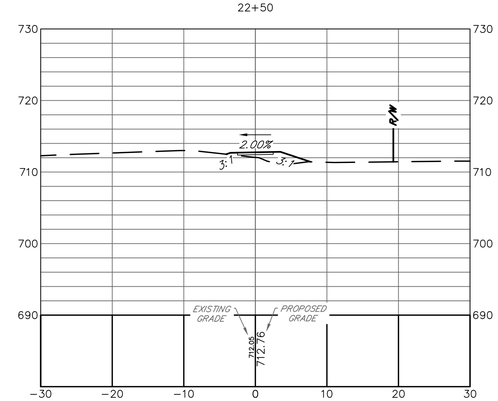

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

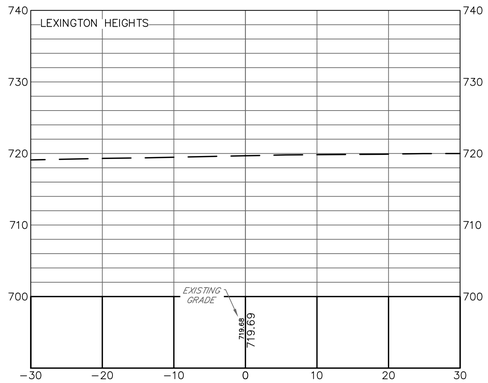
SCALE IN FEET: 20 0 20

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-003

25+00



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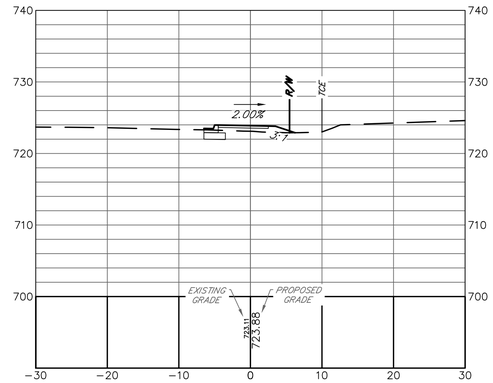

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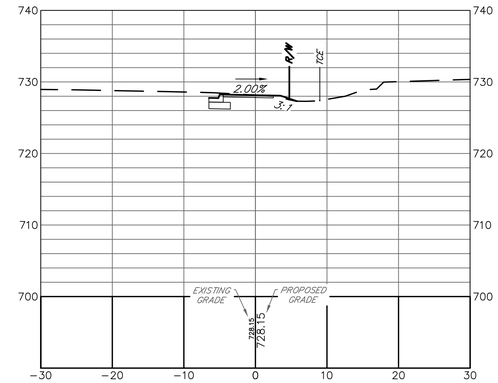

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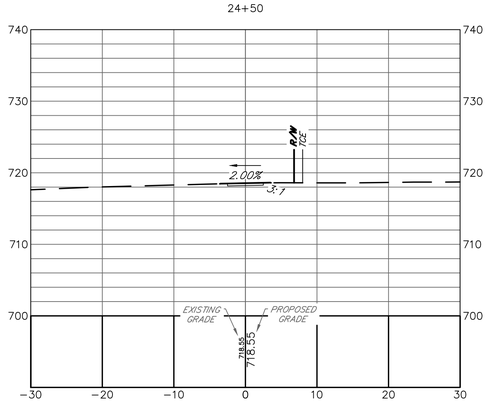

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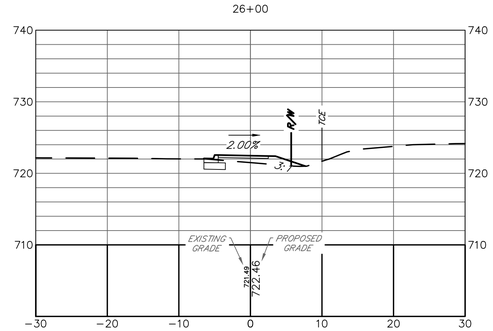

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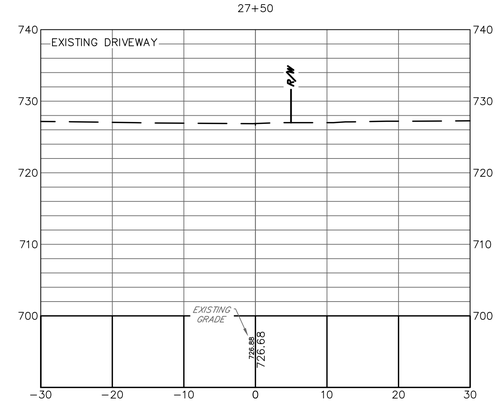

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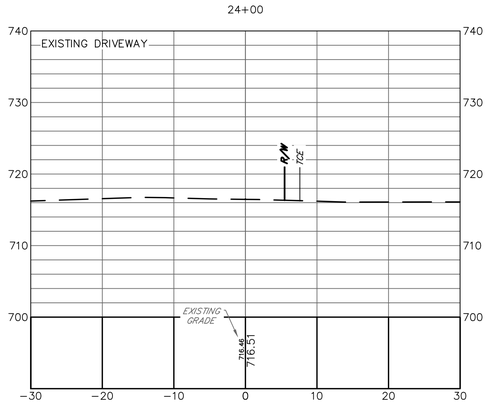

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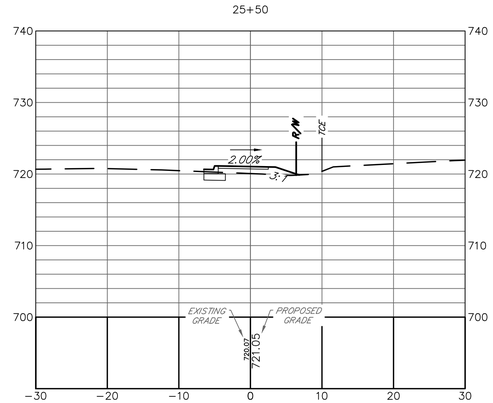

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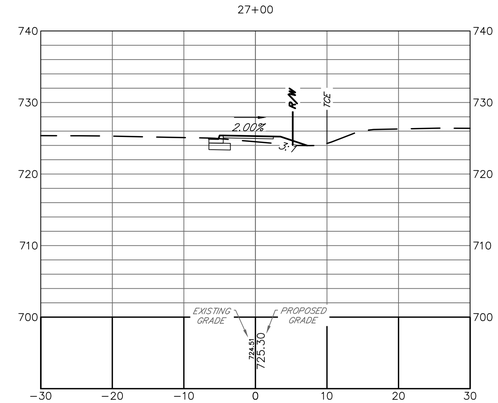

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

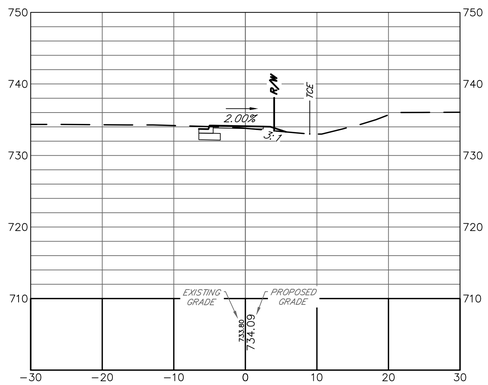
20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-004

29+50



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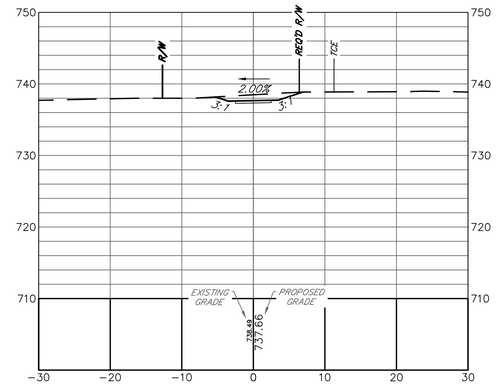

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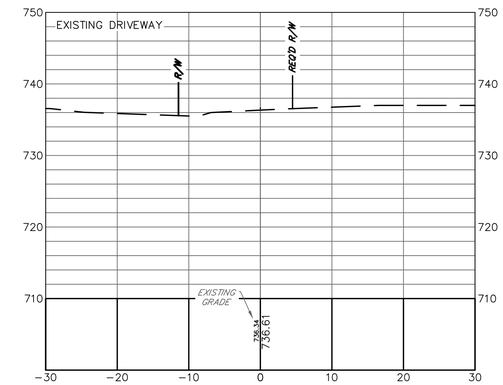

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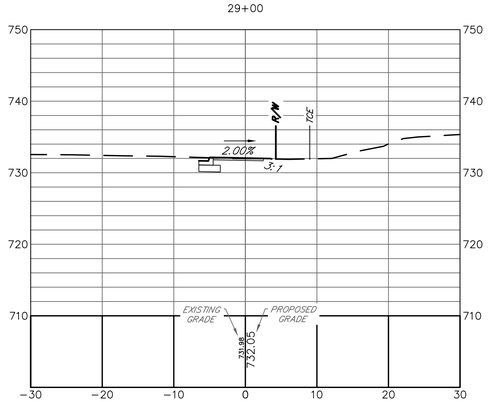

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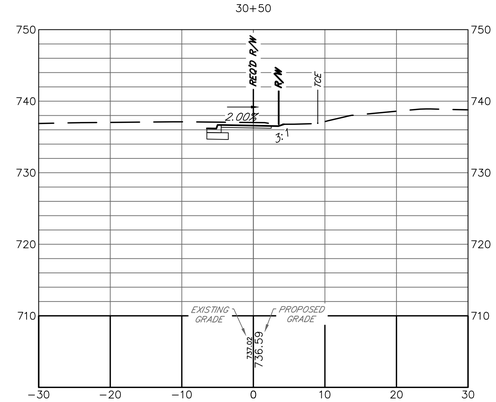

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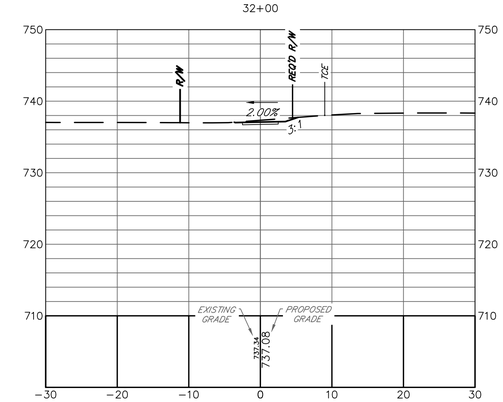

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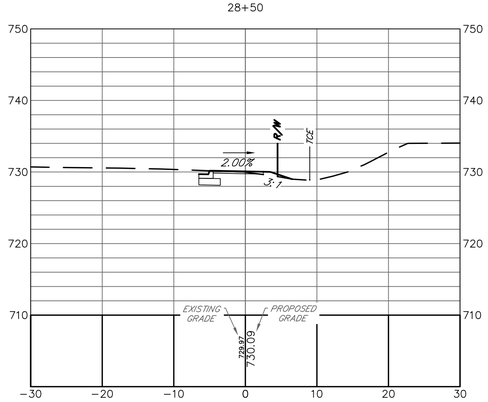

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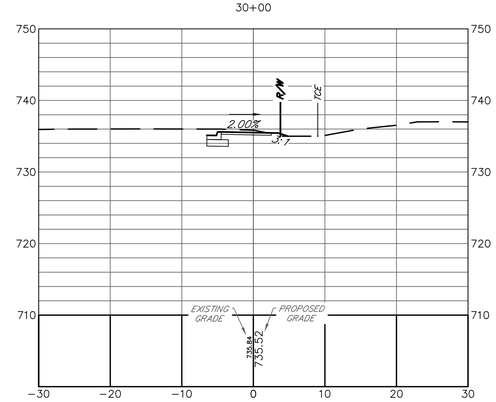

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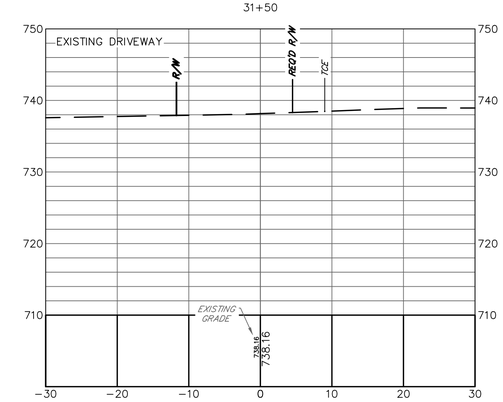

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

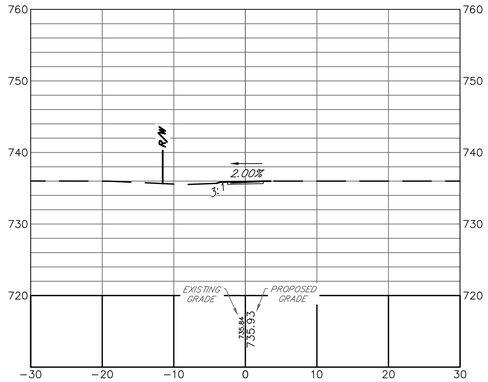
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-005

34+00



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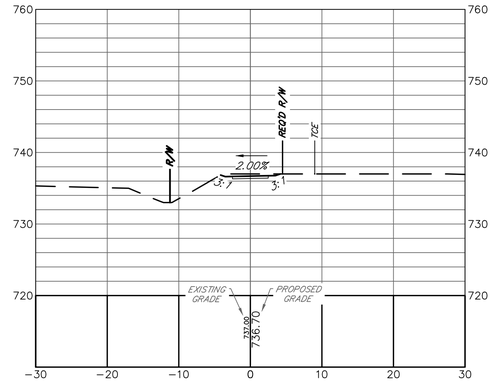

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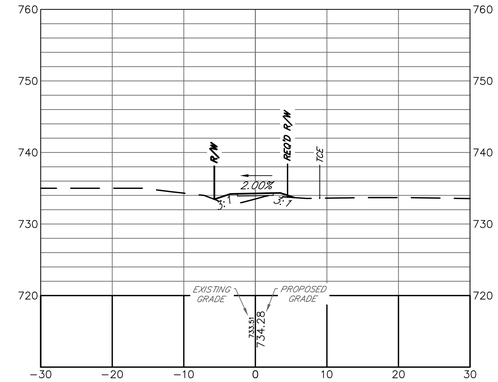

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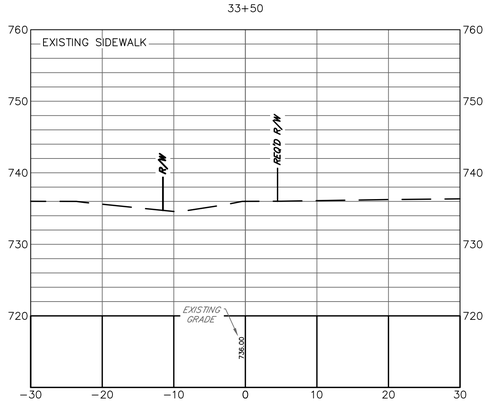

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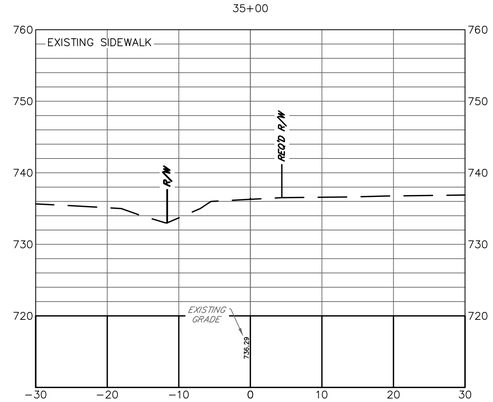

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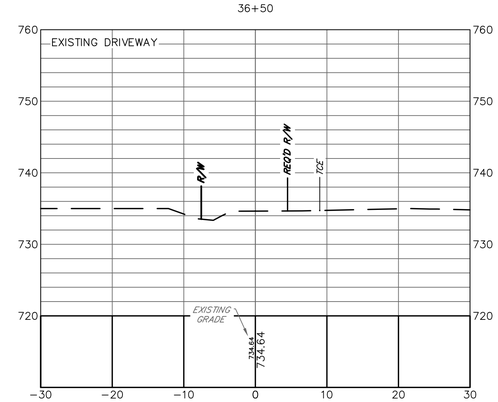

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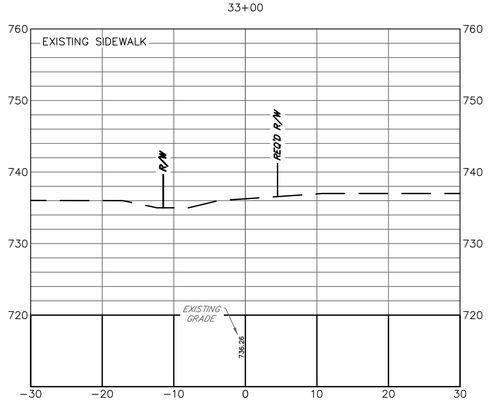

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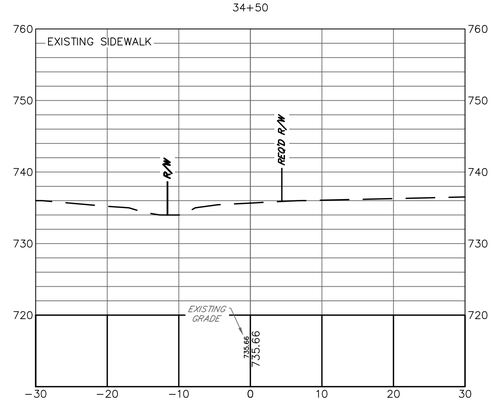

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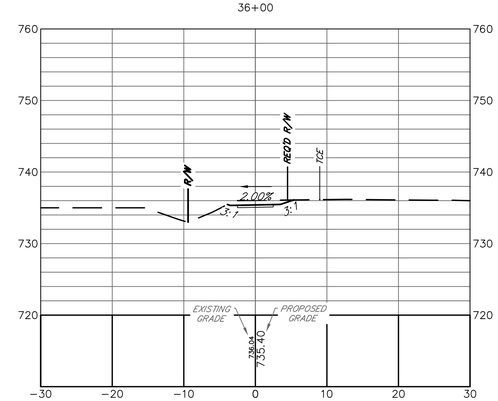

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

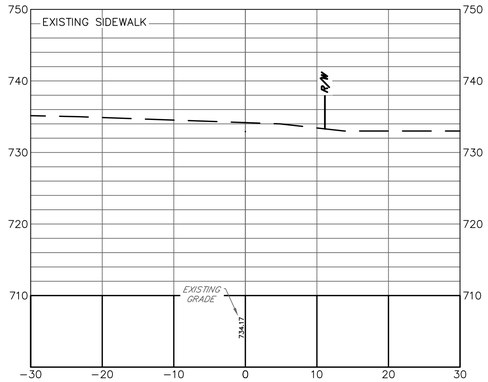
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-006

38+50



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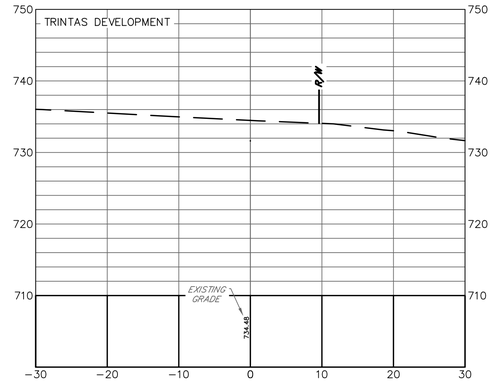

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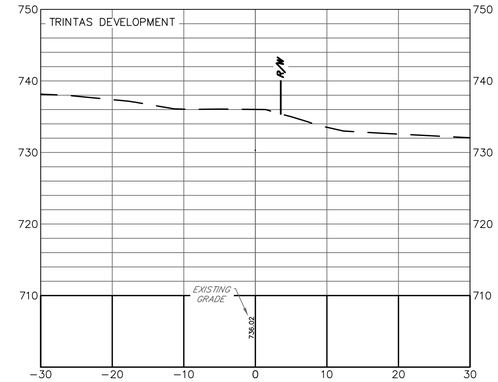

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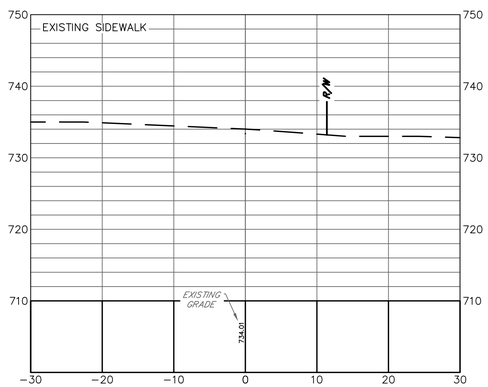

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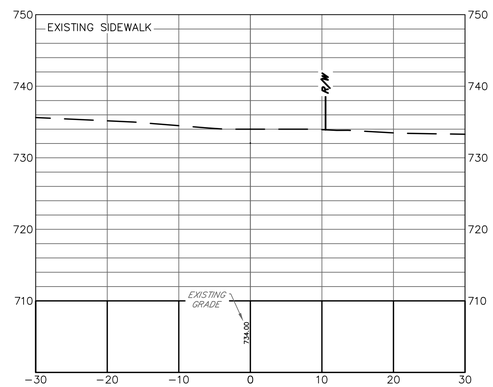

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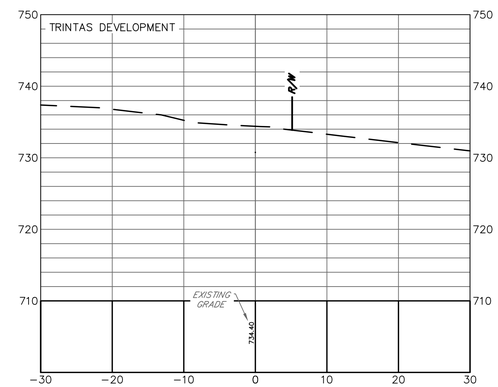

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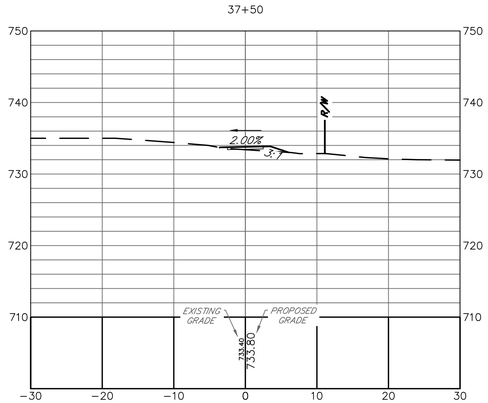

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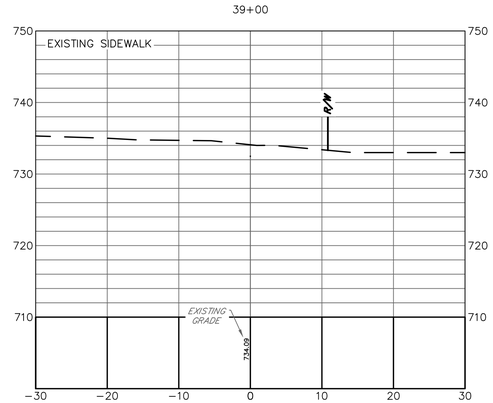

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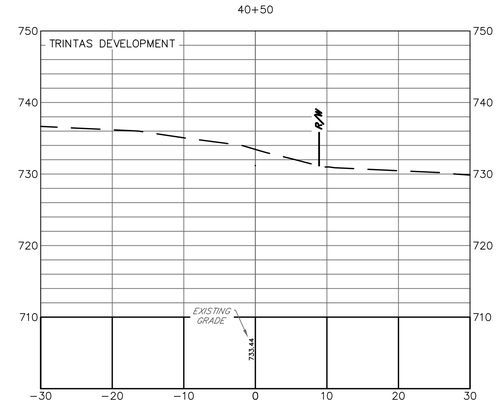

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-007

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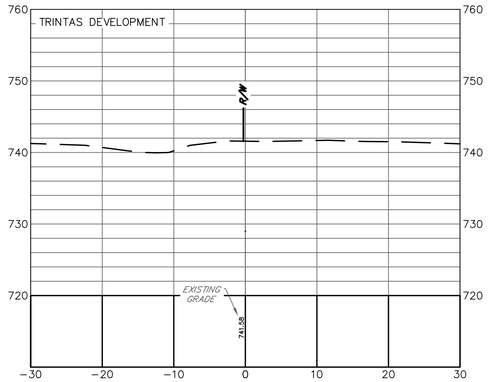

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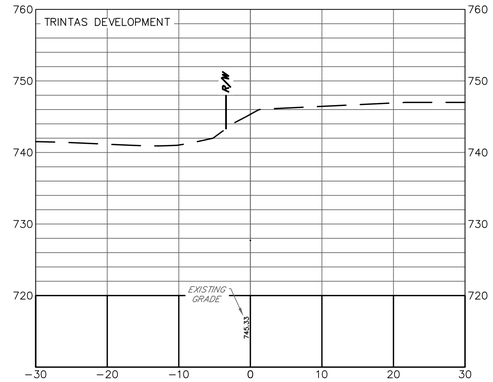

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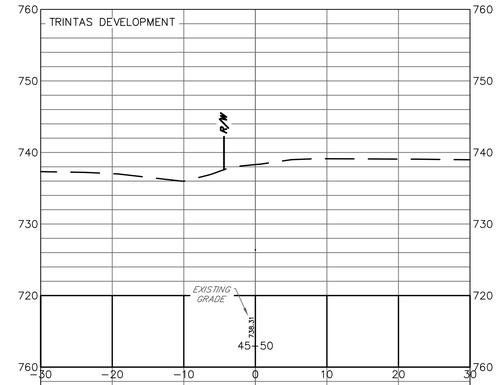

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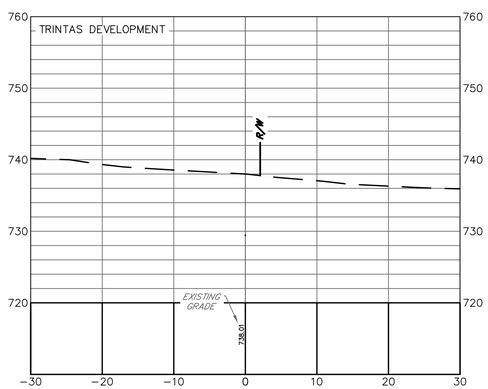

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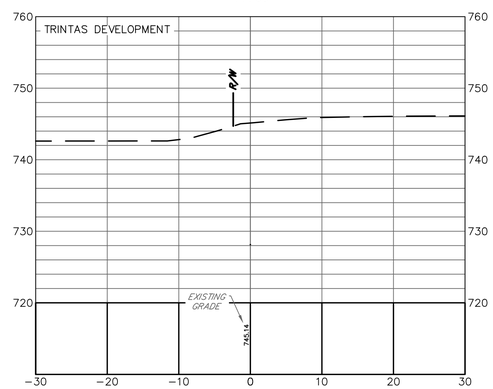

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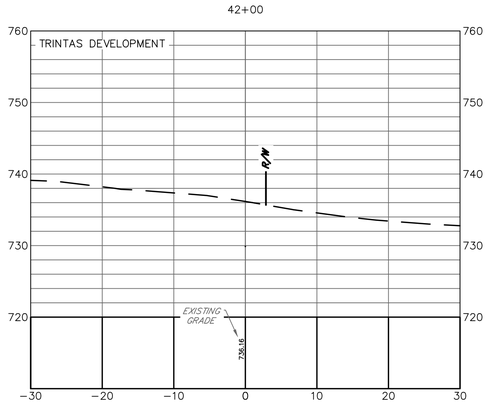

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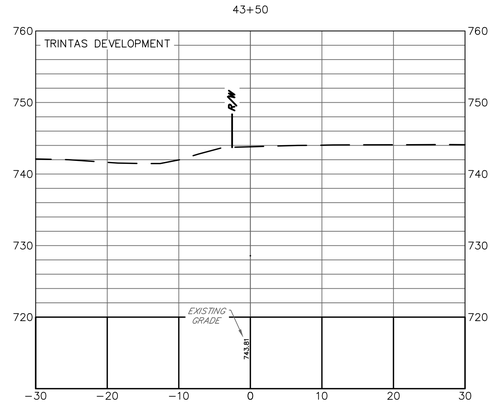

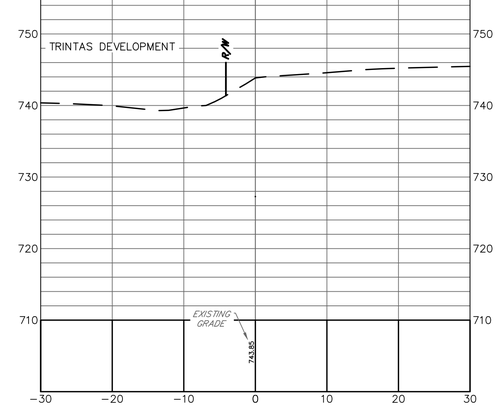

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-008

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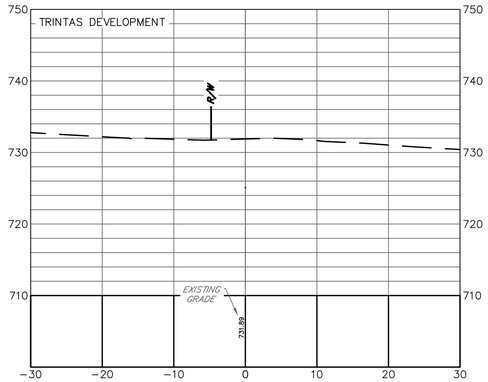

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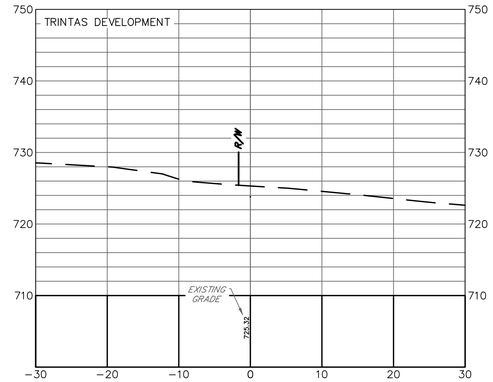

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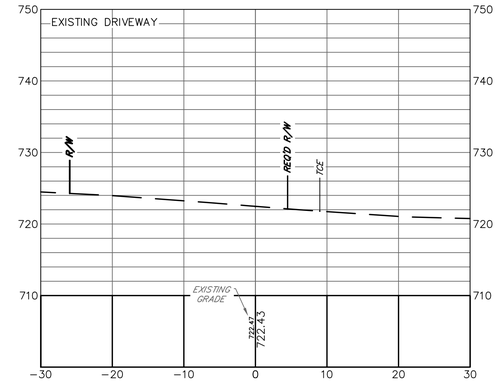

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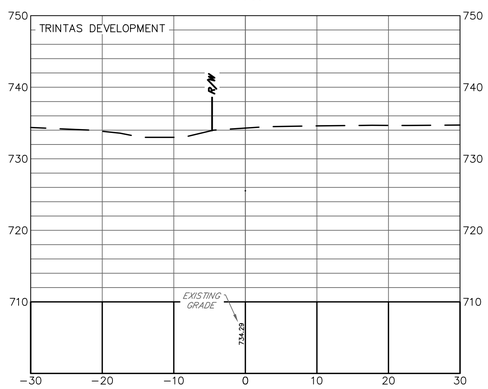

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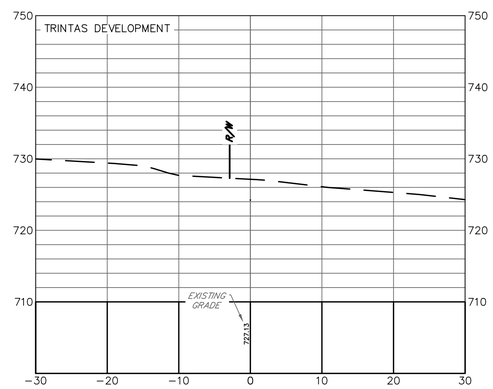

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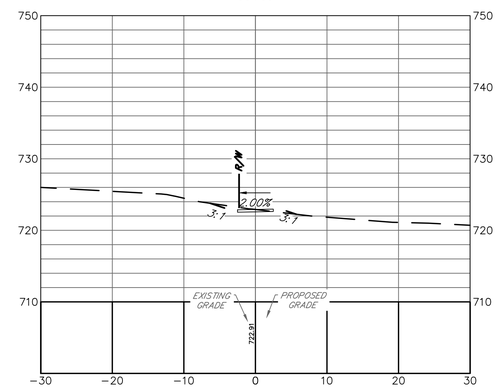

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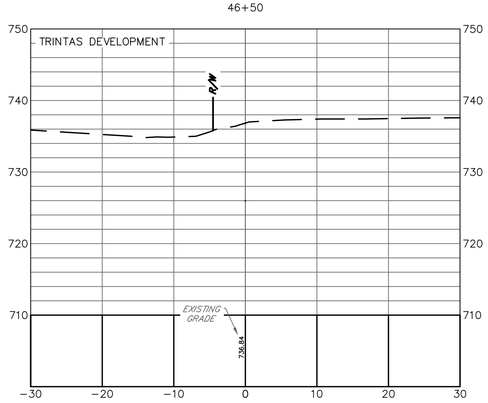

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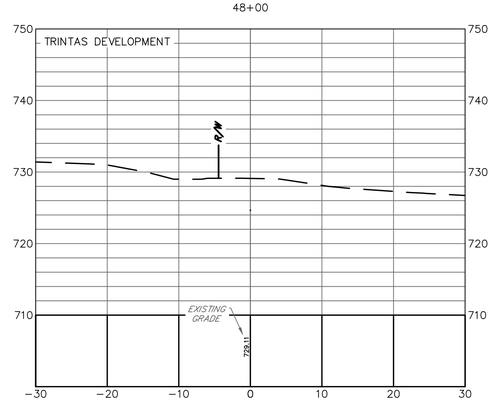

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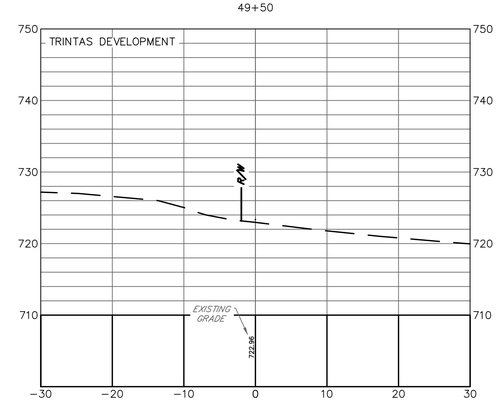

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-009

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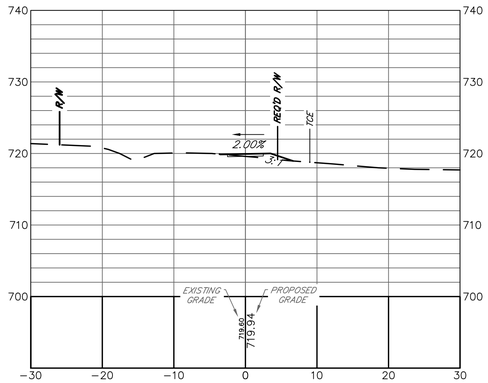

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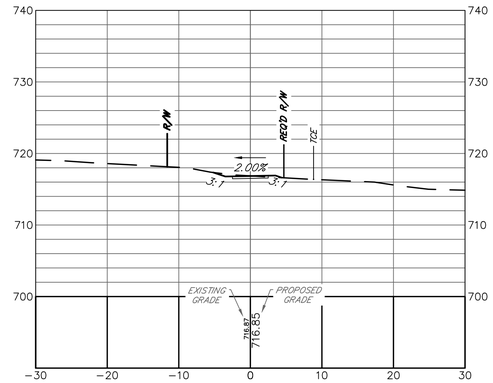

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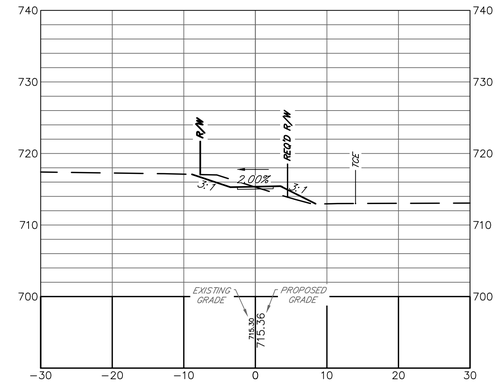

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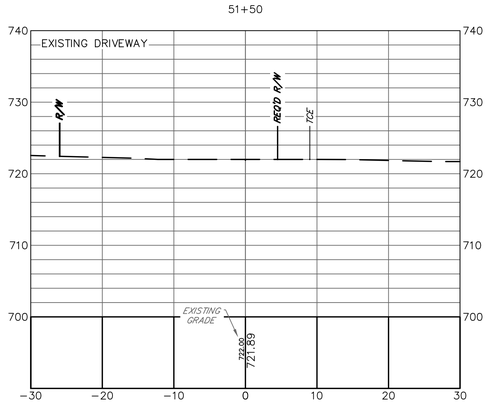

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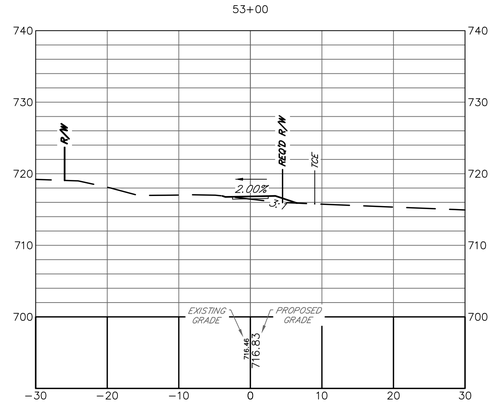

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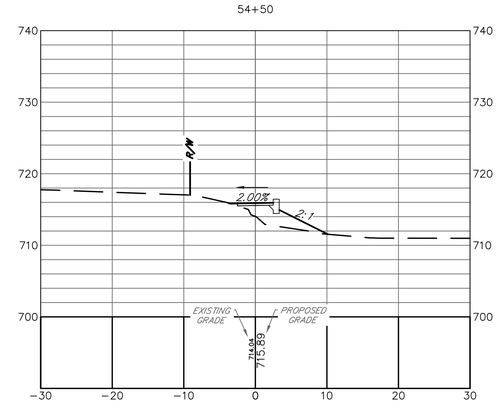

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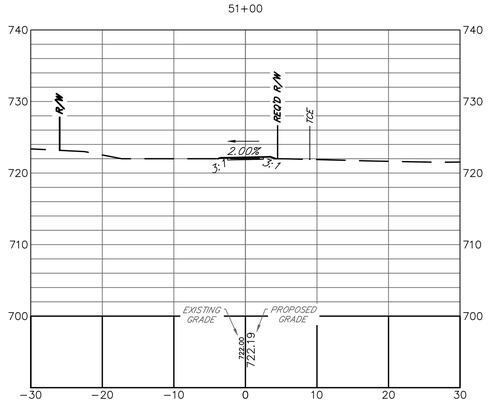

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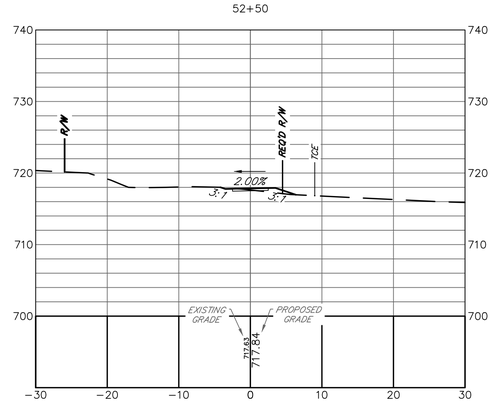

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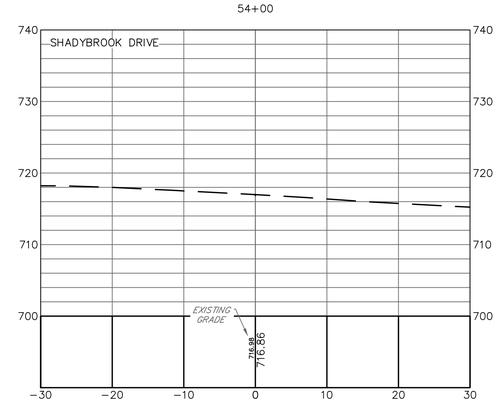

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-010

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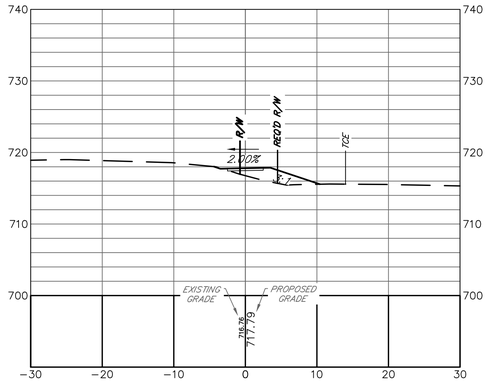

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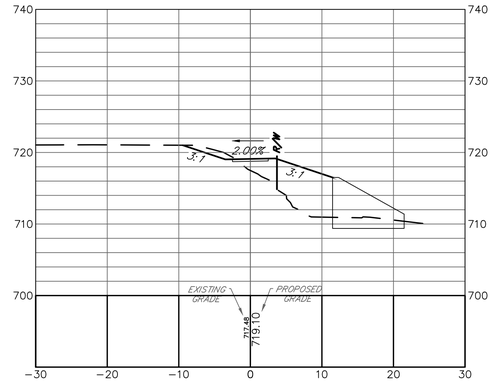

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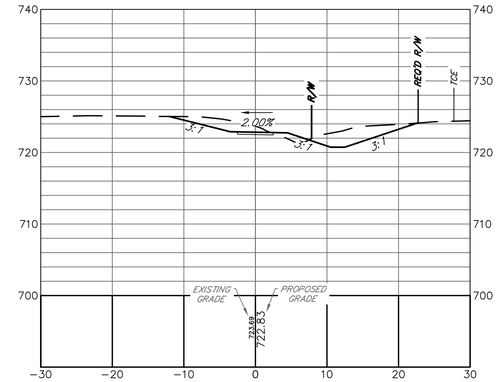

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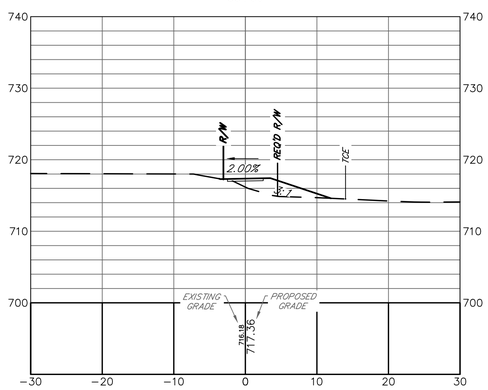

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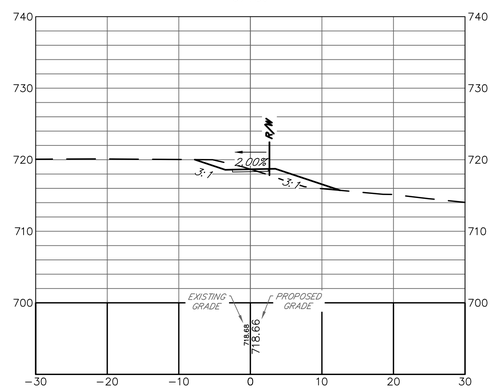

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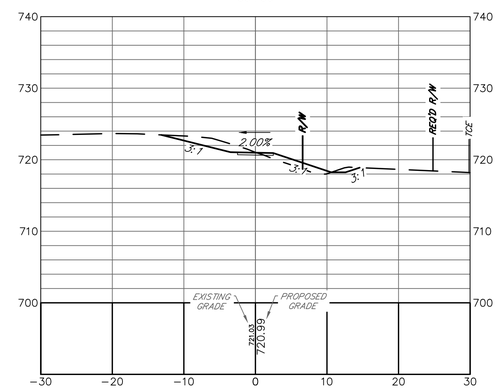

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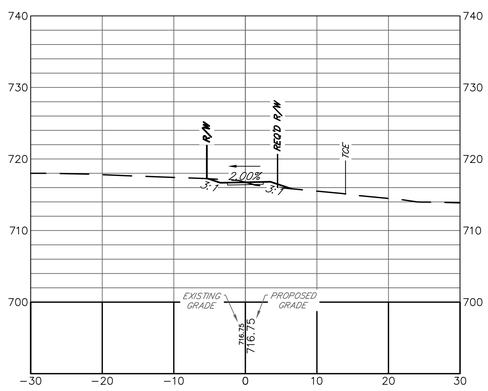

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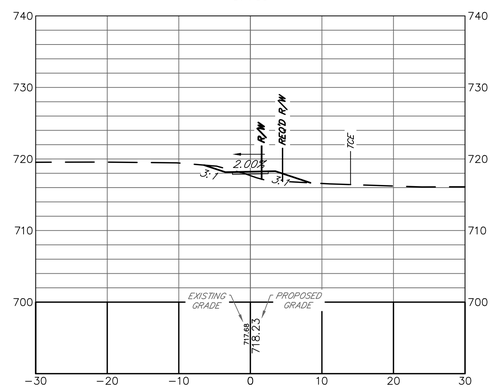

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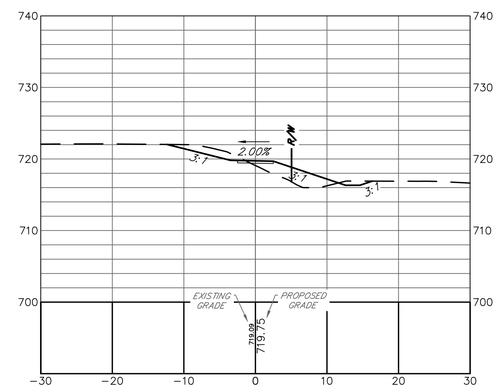

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-011

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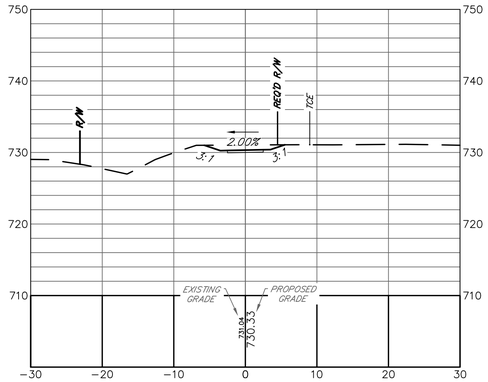

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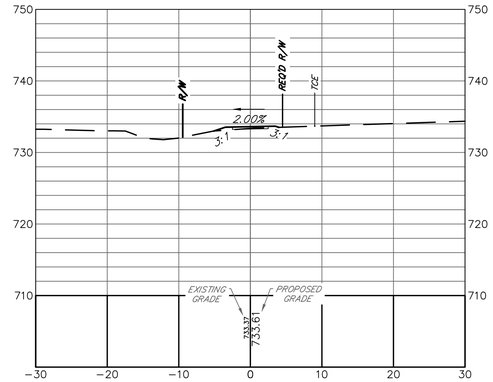

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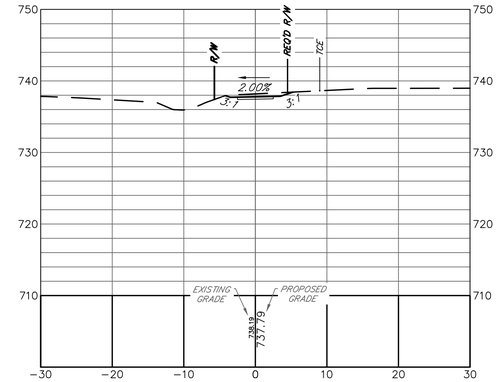

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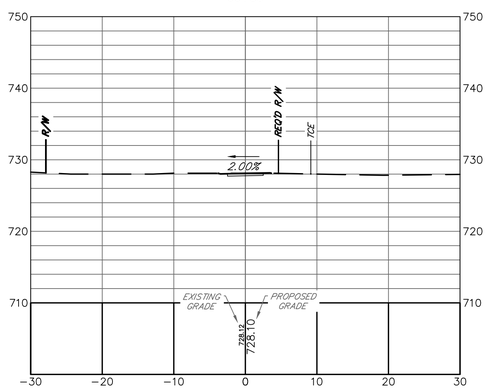

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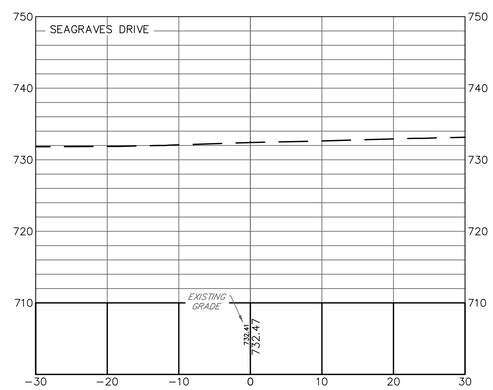

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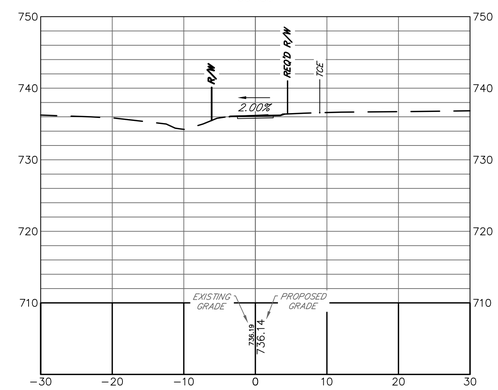

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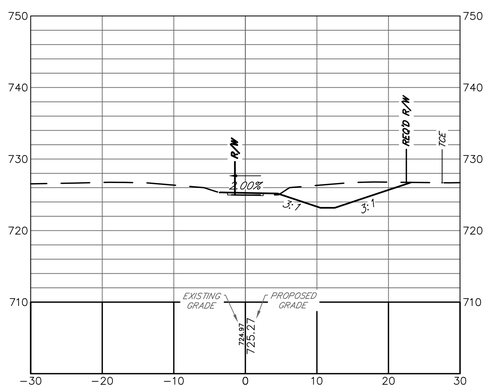

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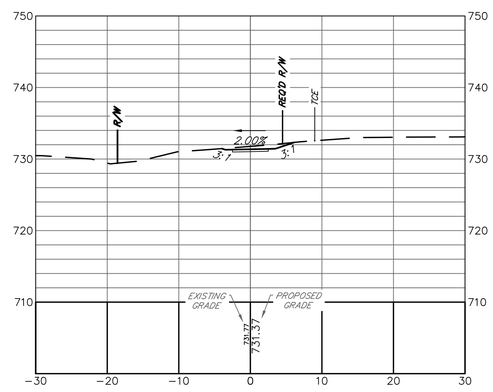

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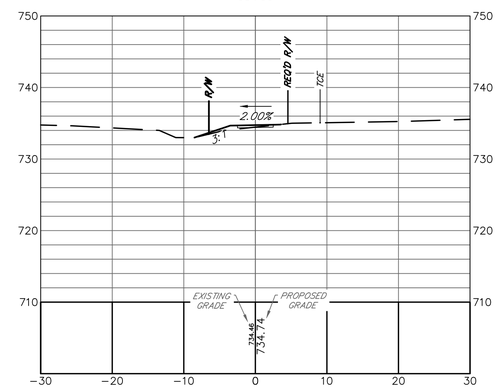

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE:
APRIL 27, 2022

Sheet:
23-012

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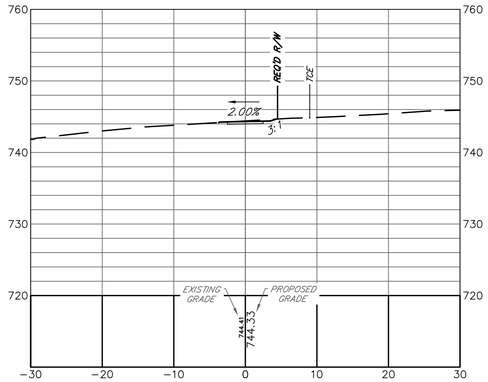

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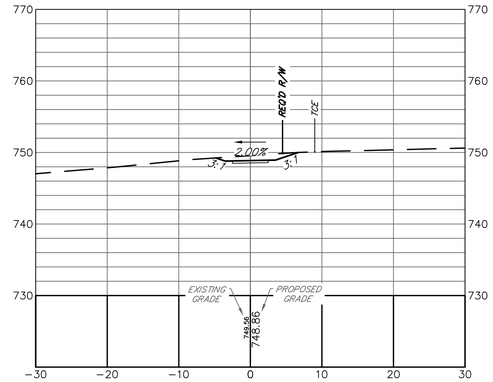

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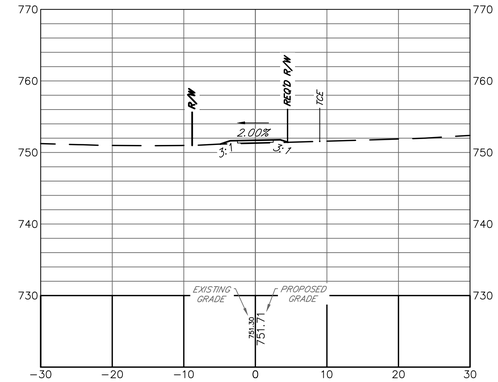

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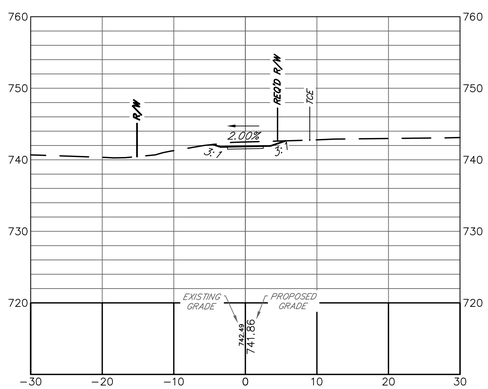

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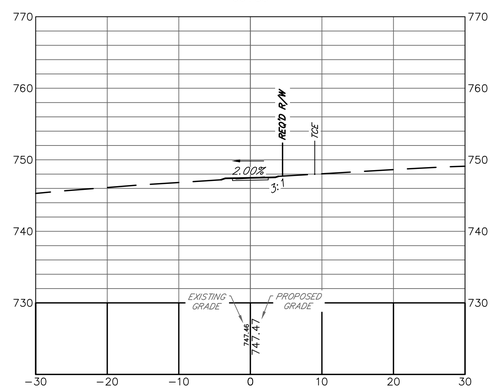

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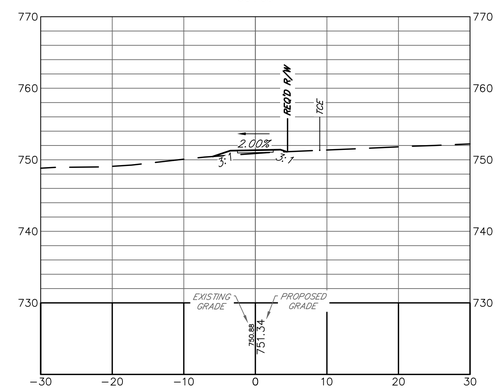

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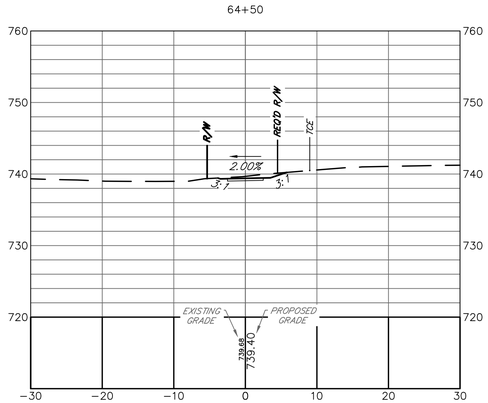

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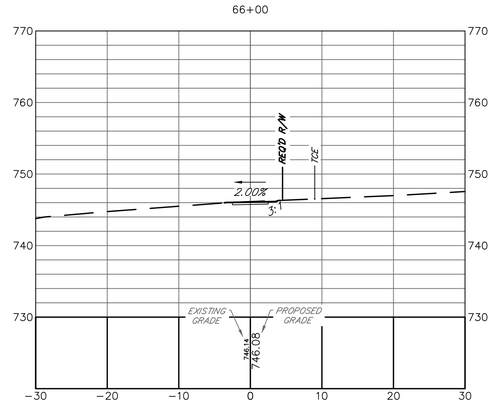

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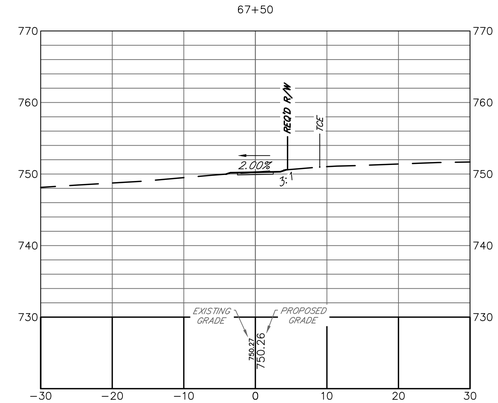

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-013

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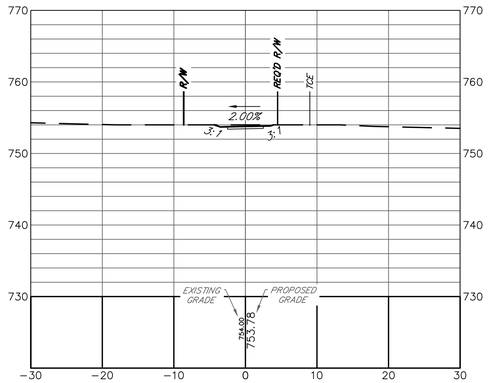

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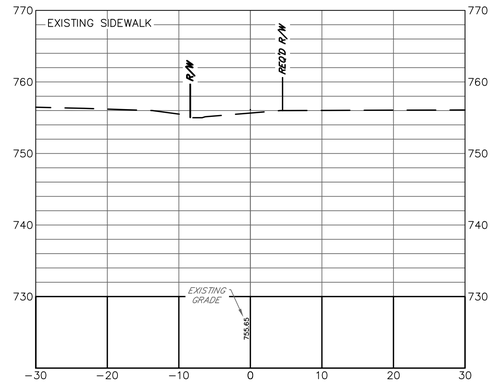

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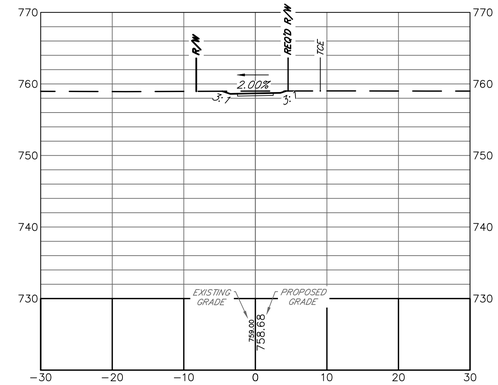

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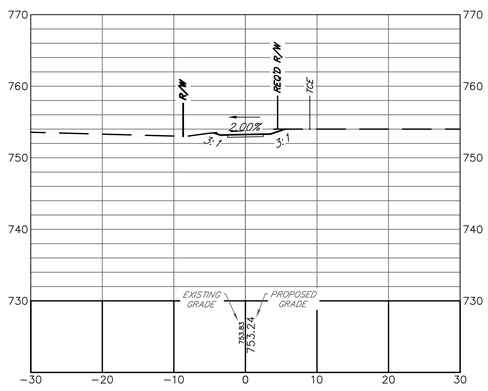

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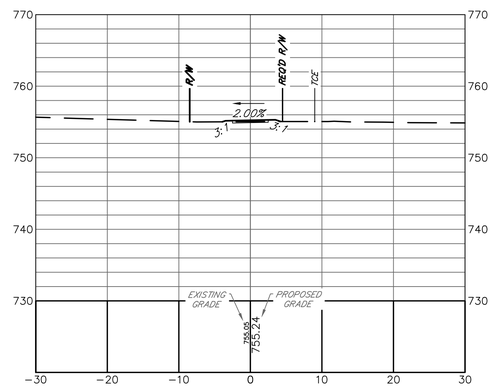

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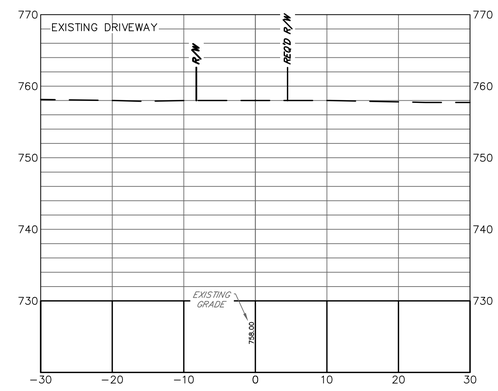

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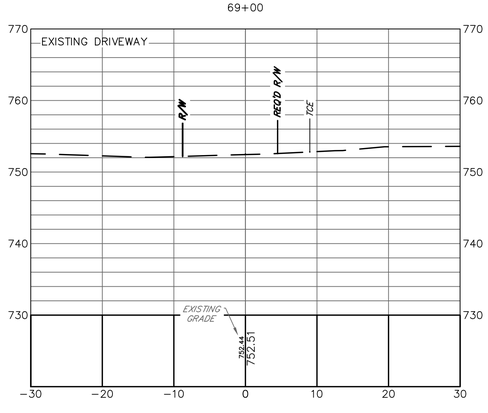

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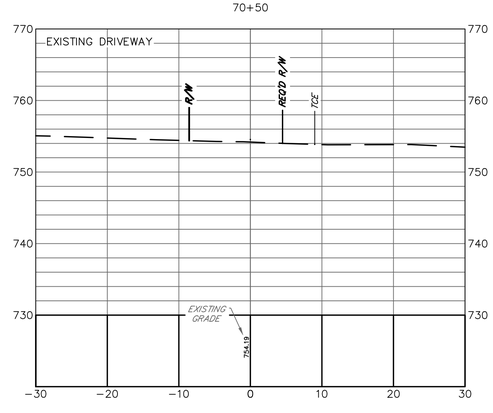

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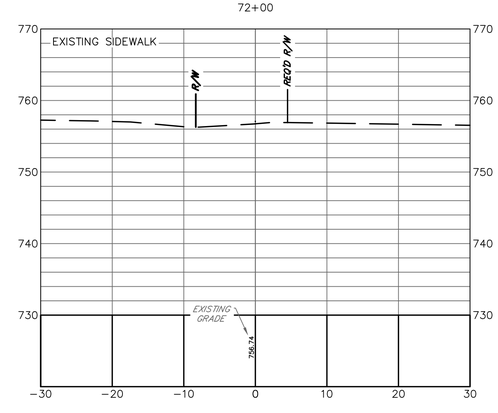

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE:
APRIL 27, 2022

Sheet:
23-014

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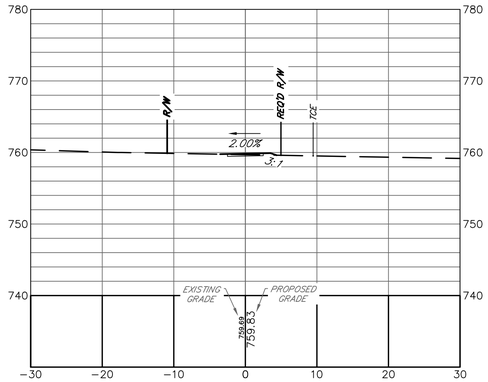

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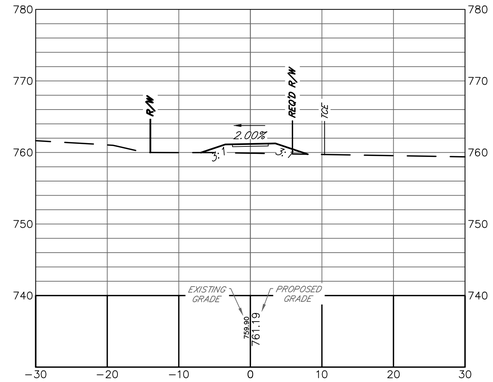

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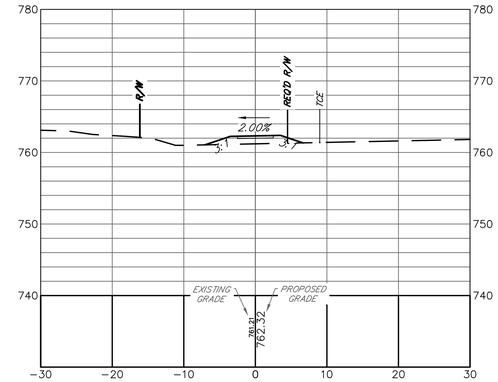

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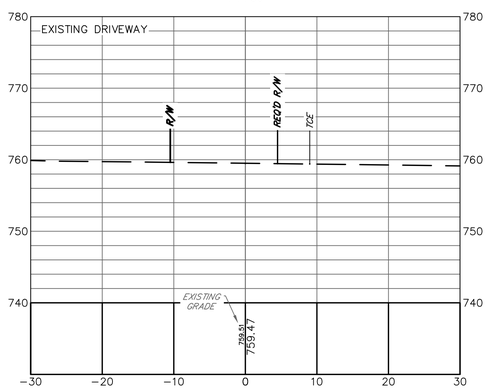

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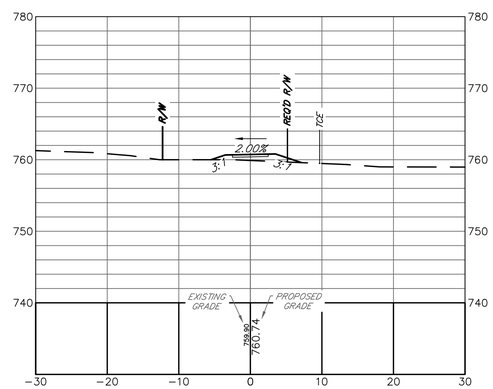

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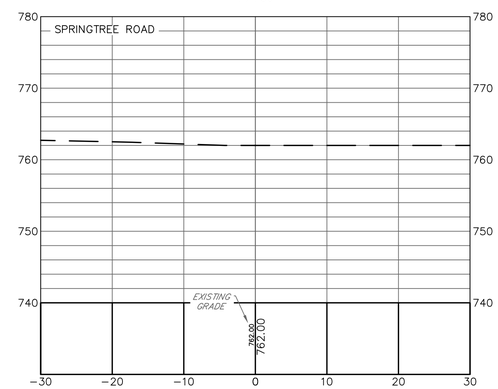

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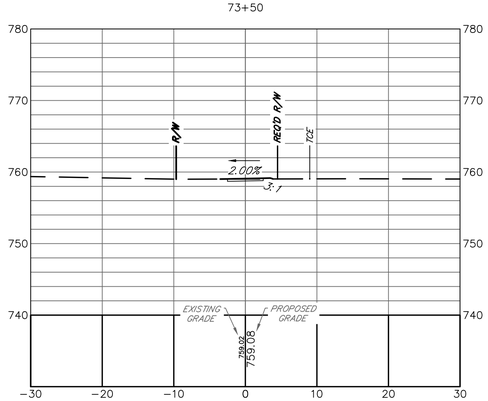

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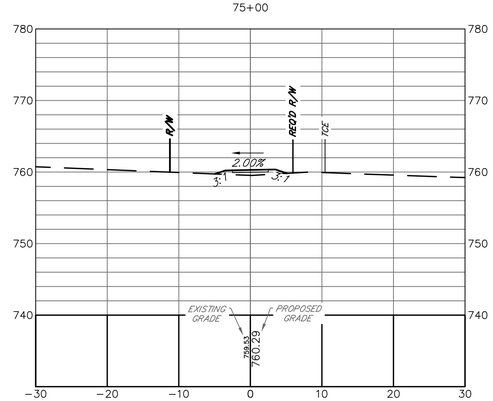

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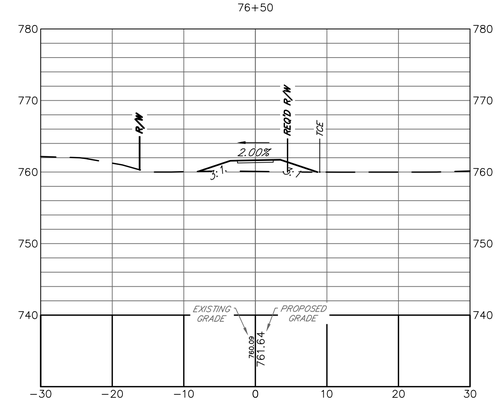

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-015

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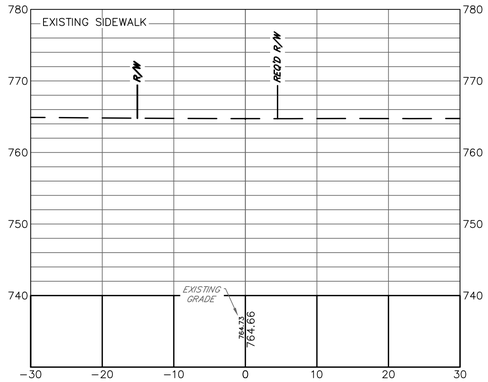

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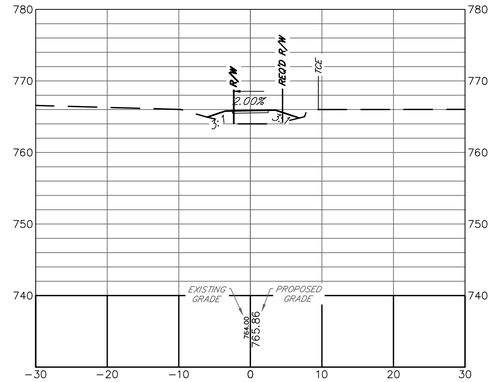

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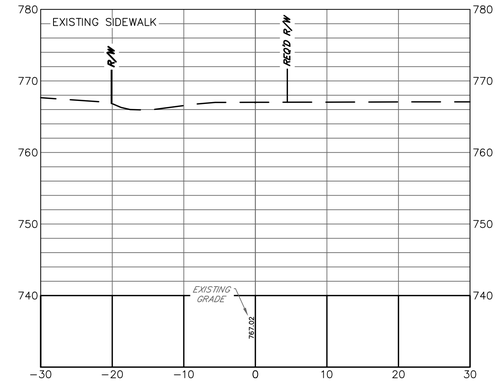

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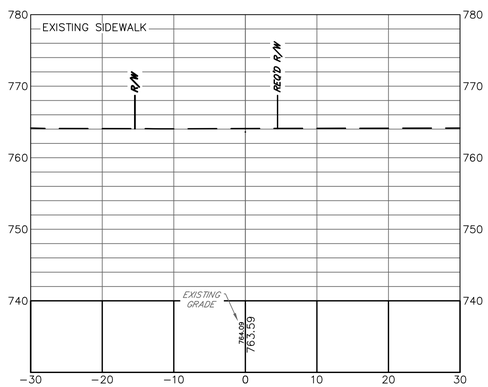

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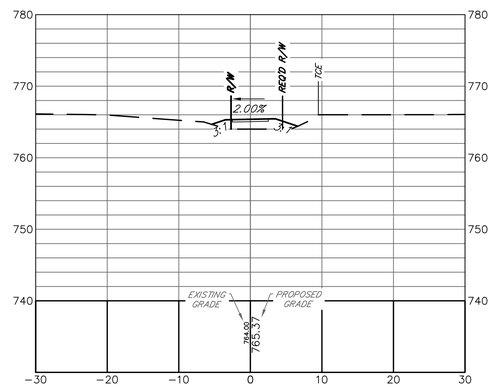

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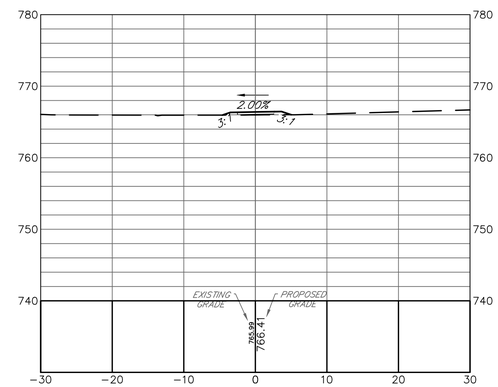

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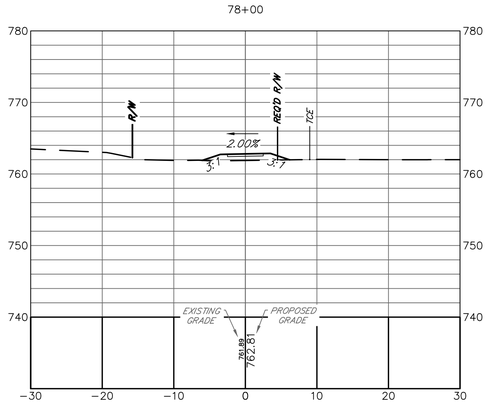

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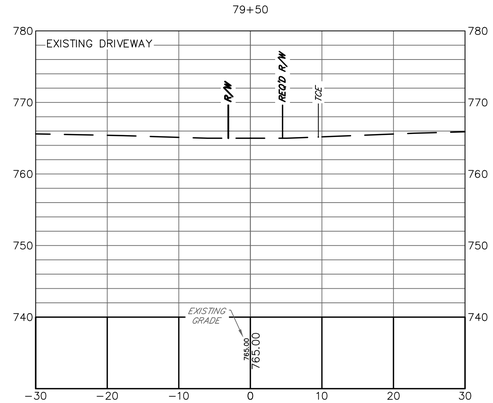

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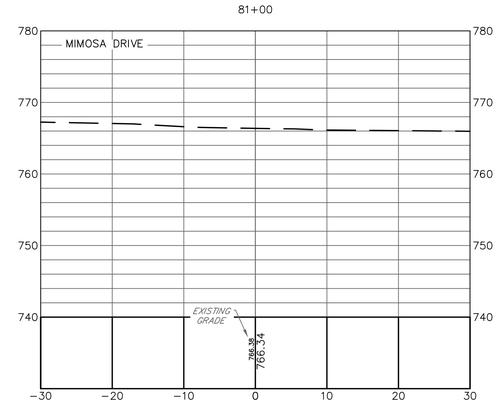

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

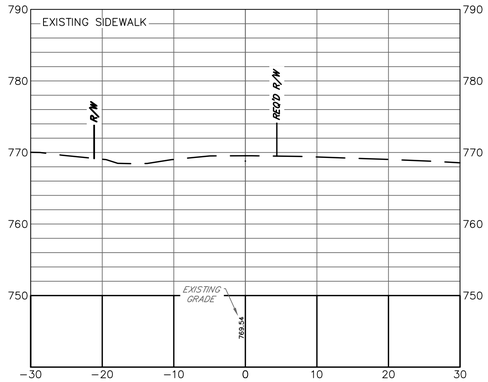
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-016

83+50



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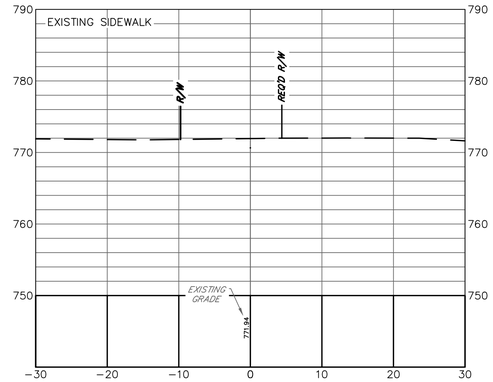

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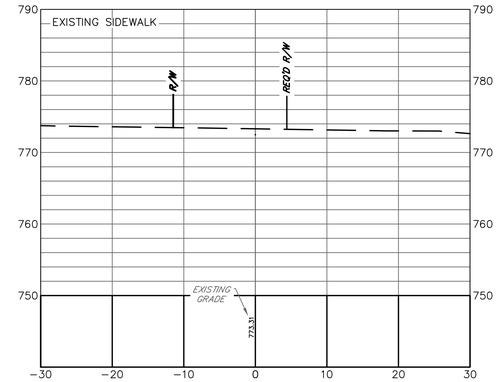

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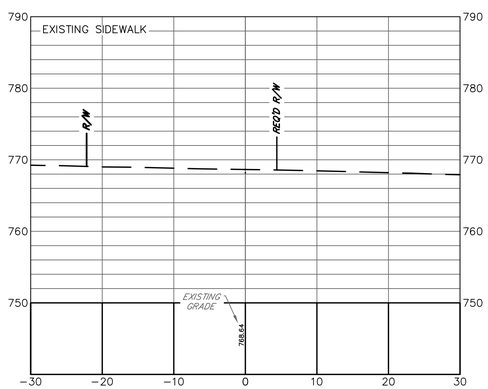

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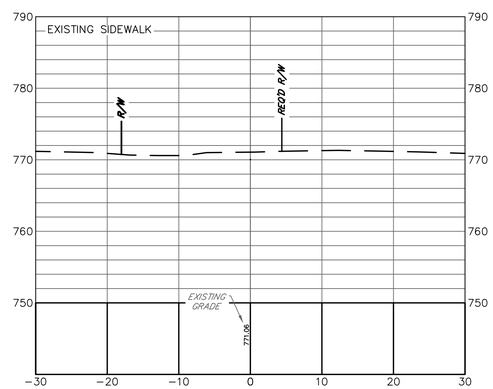

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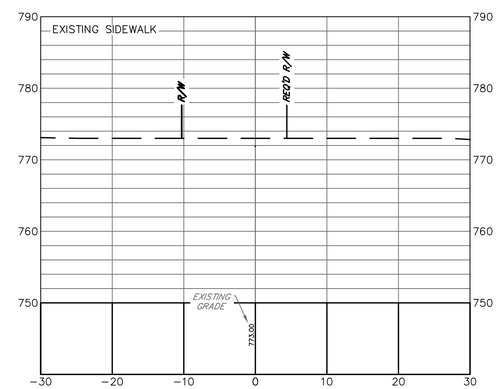

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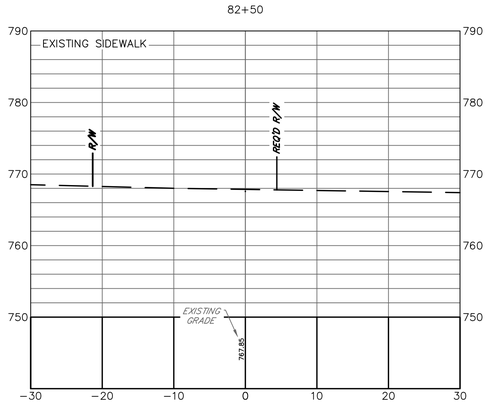

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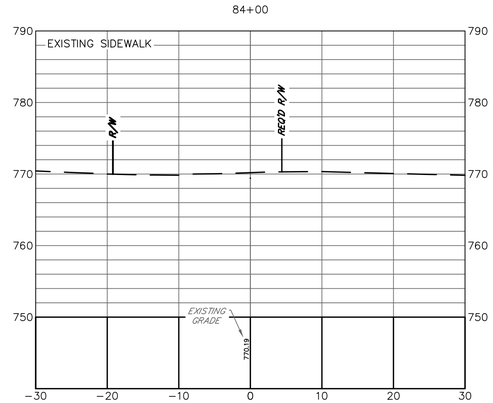

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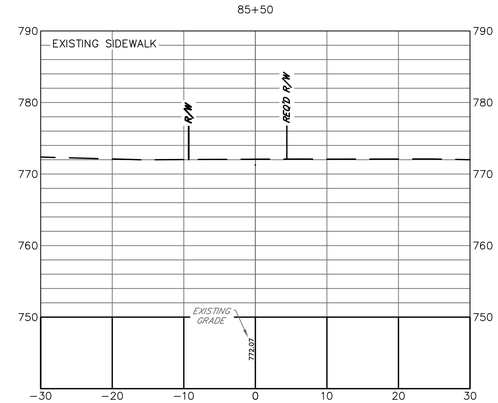

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-017

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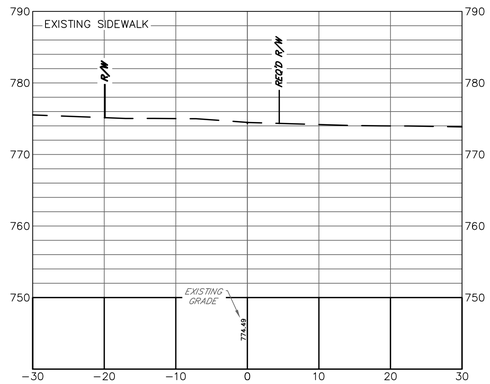

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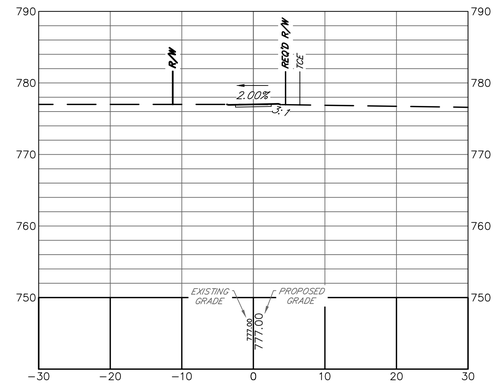

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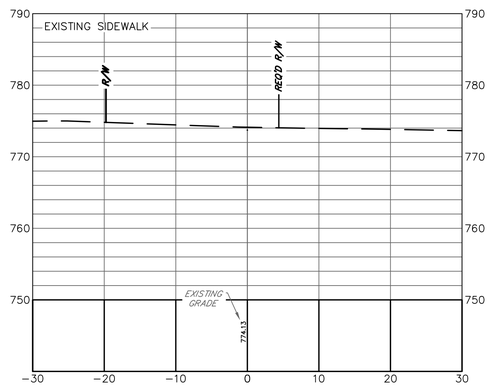

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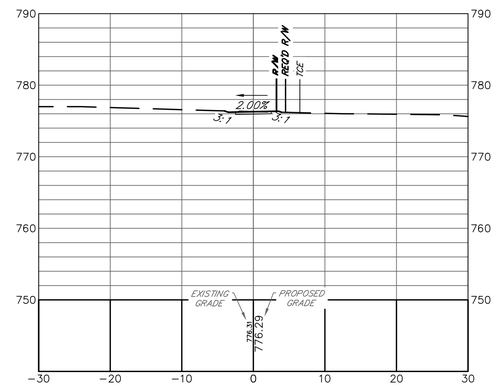

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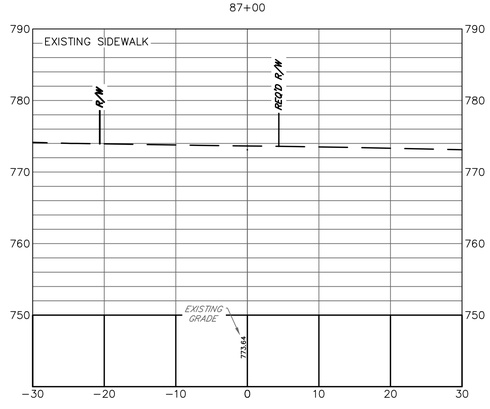

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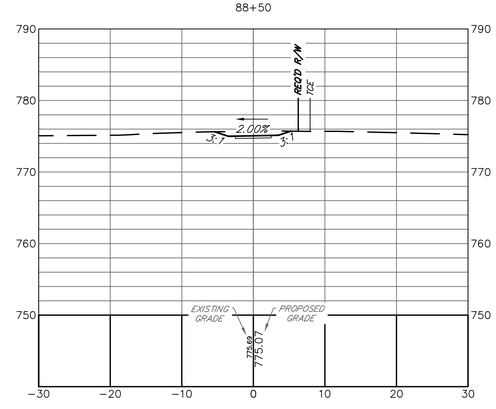

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

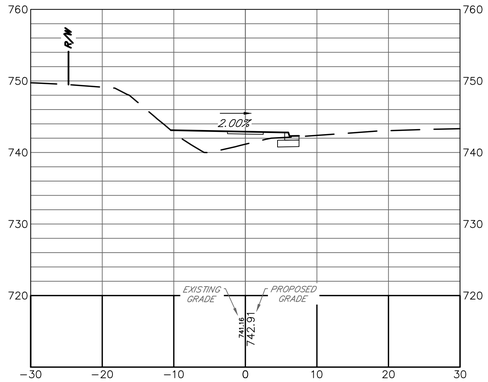
20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE:
APRIL 27, 2022

Sheet:
23-018

1+50



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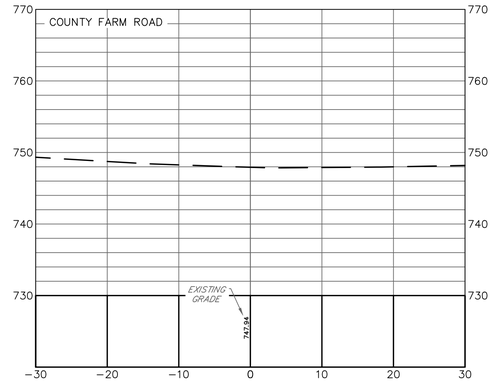

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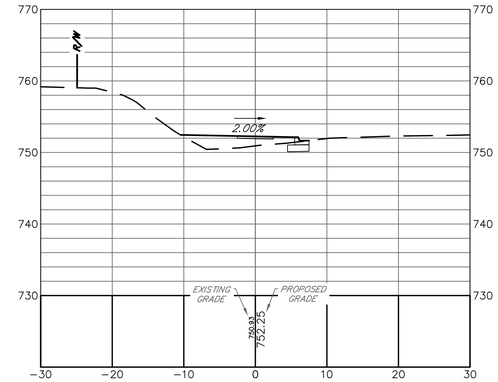

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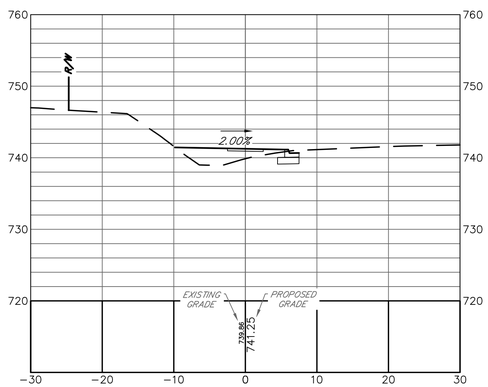

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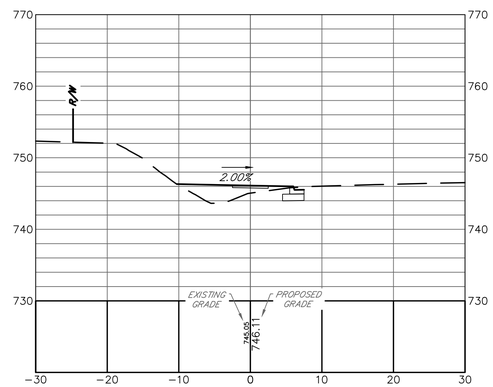

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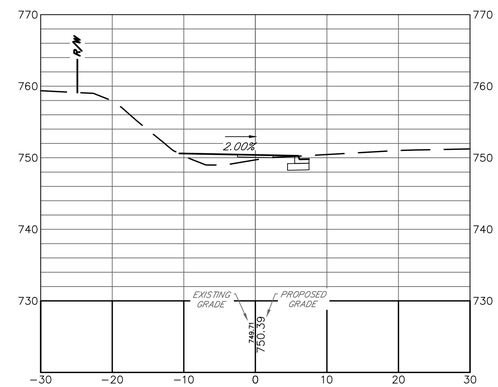

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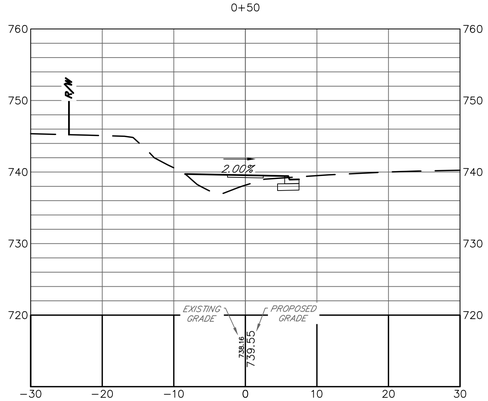

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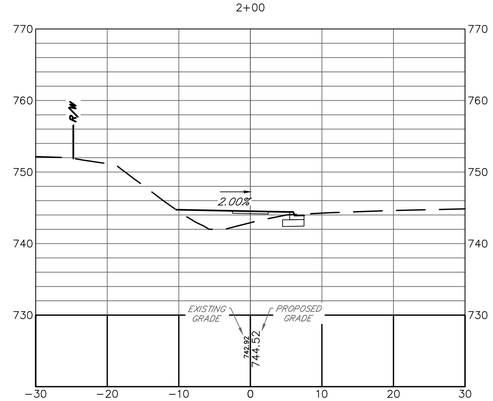

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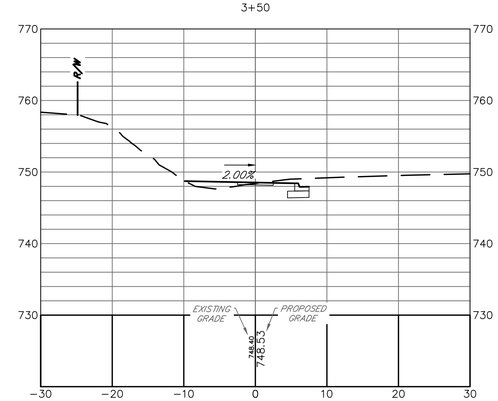

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

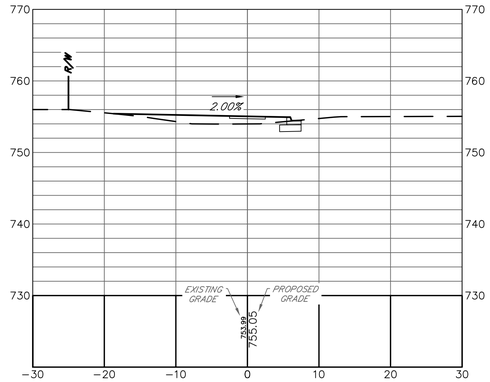
SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 23-019

6+00



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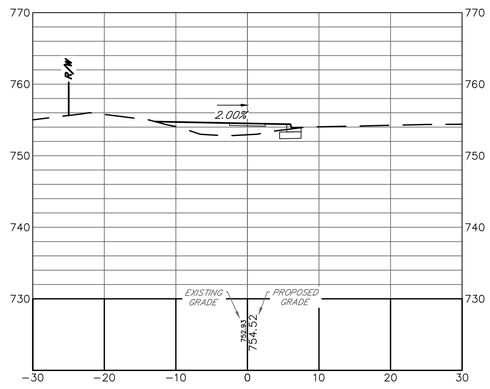

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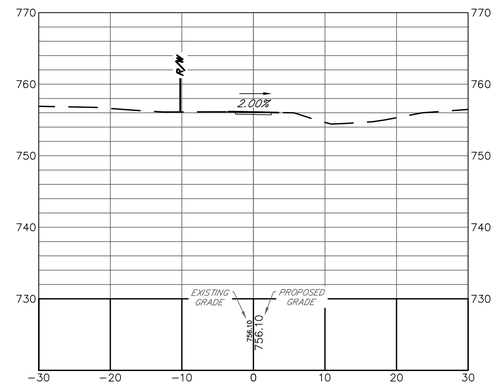

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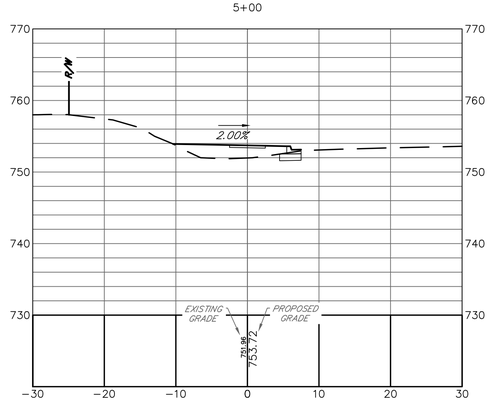

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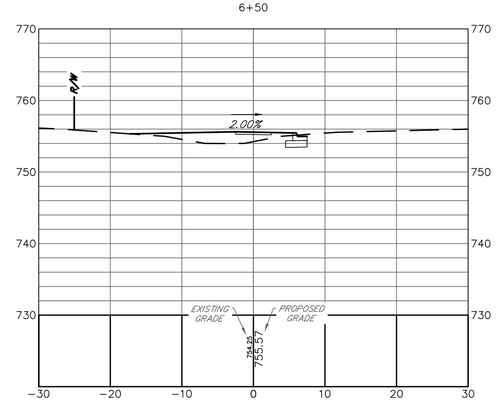

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS–CLARKE COUNTY, GA

SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

20 0 20
SCALE IN FEET

PROJECT INFORMATION

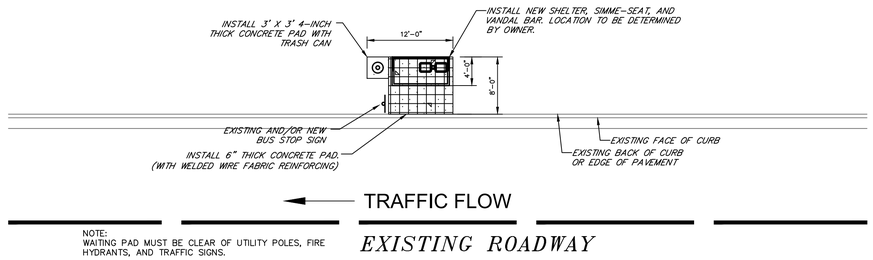
JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE:
APRIL 27, 2022

Sheet:
23-020

LEVEL 2S BUS STOP IMPROVEMENT

TYPICAL BUS SHELTER INSTALLATION SITE

LEVEL 2.3S



NOTE:
WAITING PAD MUST BE CLEAR OF UTILITY POLES, FIRE HYDRANTS, AND TRAFFIC SIGNS.

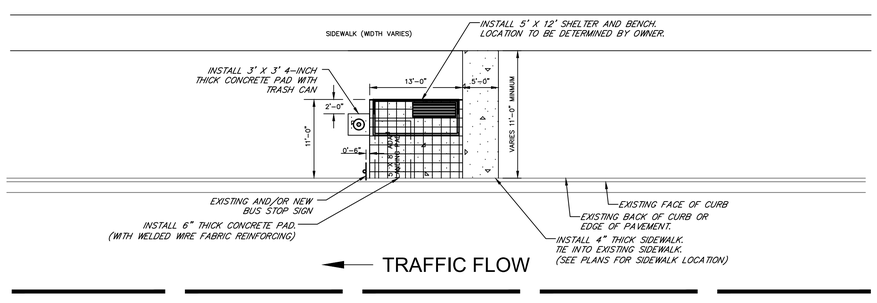
WAITING PAD TO HAVE MAXIMUM CROSS SLOPE OF 2%.

WHERE TYING INTO EDGE OF PAVEMENT, PARTICULARLY ASPHALT, THE ASPHALT BE CUT STRAIGHT WITH A CONCRETE SAW AND THAT THE TIE-IN BE TWO STRAIGHT EDGES.

GRADE SITE DRAIN, MINIMUM SLOPE 0.5%

LEVEL 3.4 BUS STOP IMPROVEMENT

TYPICAL BUS SHELTER INSTALLATION SITE
(WITH SIDEWALK BEHIND INSTALLATION SITE)



NOTE:
WAITING PAD MUST BE CLEAR OF UTILITY POLES, FIRE HYDRANTS, AND TRAFFIC SIGNS.

WAITING PAD TO HAVE MAXIMUM CROSS SLOPE OF 2%.

SHELTER INSTALLATION TO INCLUDE FARE & TIME SCHEDULE HOLDERS AND SYSTEM MAP.

WHERE TYING INTO EDGE OF PAVEMENT, PARTICULARLY ASPHALT, THAT THE ASPHALT BE CUT STRAIGHT WITH A CONCRETE SAW AND THAT THE TIE-IN BE TWO STRAIGHT EDGES.

GRADE SITE TO DRAIN, MINIMUM SLOPE 0.5%

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: LEXINGTON ROAD CORRIDOR SIDEWALK PROJECTS

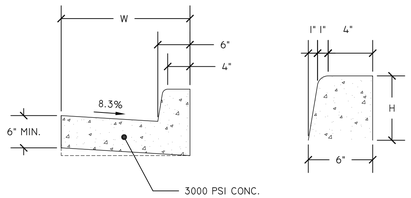
20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19022041
DRAWN BY: KC
CHECKED BY: EH
DRAWING FILE: 19022041E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: APRIL 27, 2022

Sheet: 40-001

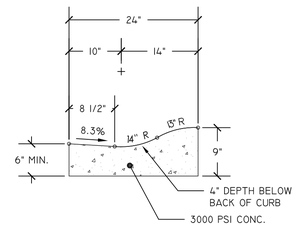
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



TYPE	H	W	DESIGNATION
2-A	6"	24"	6"x24"x12"
2-B	6"	30"	6"x30"x12"
3	8"	30"	8"x30"x14"

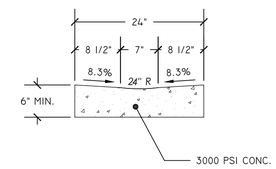
Notes:
1. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
2. Construction Joints to placed every 10 L.F.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
4. All exposed surfaces to be broom finished.
5. Gutter thickness may be increased to match paving course.

HIGH BACK CURB & GUTTER
NTS



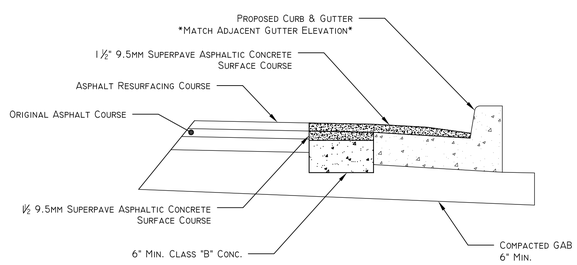
Notes:
1. Use of Rollover Curb requires the approval of the Director of Transportation and Public Works.
2. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
3. Construction Joints to placed every 10 L.F.
4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
5. All exposed surfaces to be broom finished.
6. Gutter thickness may be increased to match paving course.

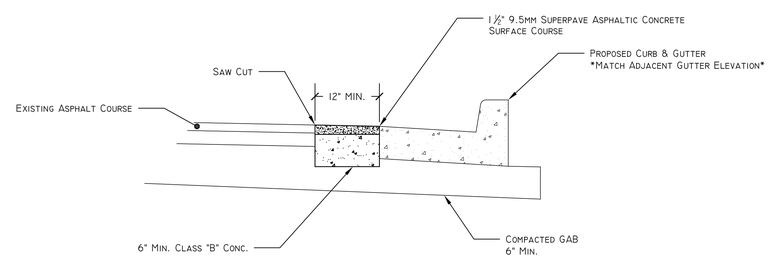
ROLLOVER CURB
NTS



Notes:
1. For use along on-street parking when approved by the Department Director.
2. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
3. Construction Joints to placed every 10 L.F.
4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
5. All exposed surfaces to be broom finished.
6. Gutter thickness may be increased to match paving course.

VALLEY GUTTER
NTS





Notes:
1. For installation of curb and gutter along existing streets with excavated area width is less than 5'.
2. Use typical section detail for excavated areas wider than 5'.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".

Class "B" Concrete Base
NTS

REVISIONS:

NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JMP

The Unified Government of Athens-Clarke County
Department of Transportation and Public Works
Engineering Division

120 West Dougherty Street
Athens, Georgia 30603

Phone 706.613.3440
Fax 706.613.3444

PROJECT:
CONSTRUCTION STANDARDS AND DETAILS

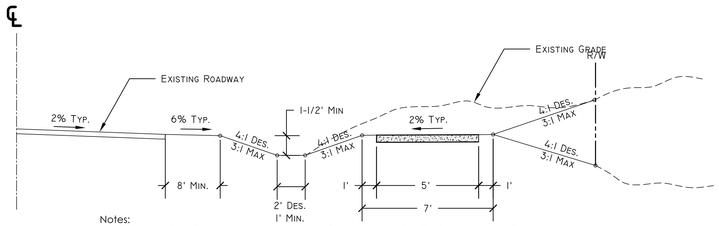
DATE: FEBRUARY 2009

SHEET:
CURB & GUTTER DETAIL

SHEET: I-030

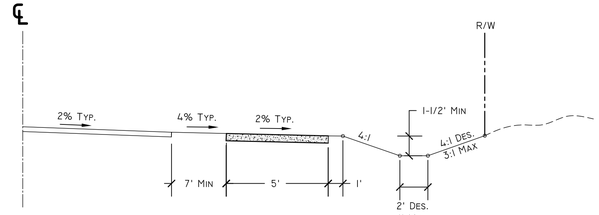
7/22/2009 10:46:42 AM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		40	48



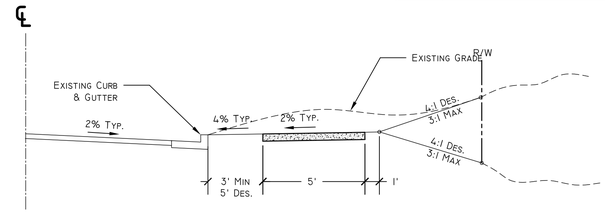
Notes:
1. This typical section to be used when right of way and terrain will allow the sidewalk to be constructed between the ditch and right of way.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #1
NTS



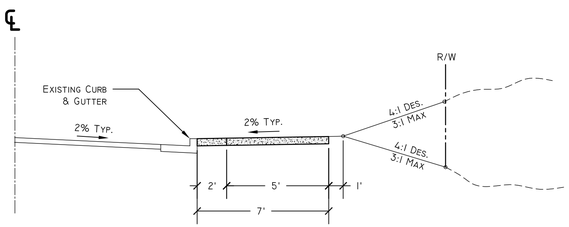
Notes:
1. This detail to be used on ditch sections where the construction of sidewalks behind the ditch is not practical or feasible.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #2
NTS



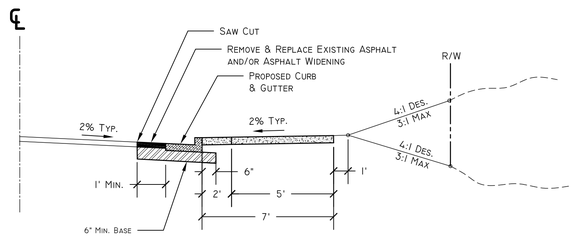
Notes:
1. This detail to be used on streets with existing or proposed curb and gutter.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #3
NTS



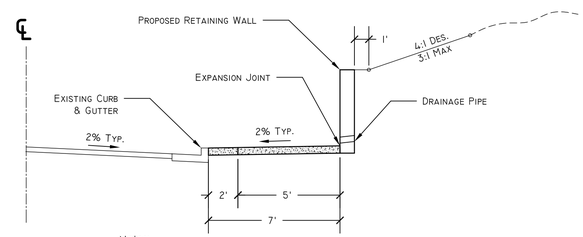
Notes:
1. This detail to be used on streets with existing curb and gutter.
2. See "7' Sidewalk Joint Pattern and Finish Detail".
3. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #4
NTS



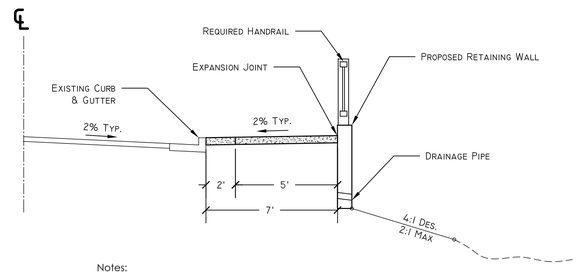
Notes:
1. This detail to be used on streets with proposed curb & gutter or limited right of way. (e.g. - decelaration lane, bike lanes, etc)
2. See "7' Sidewalk Joint Pattern and Finish Detail".
3. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #5
NTS



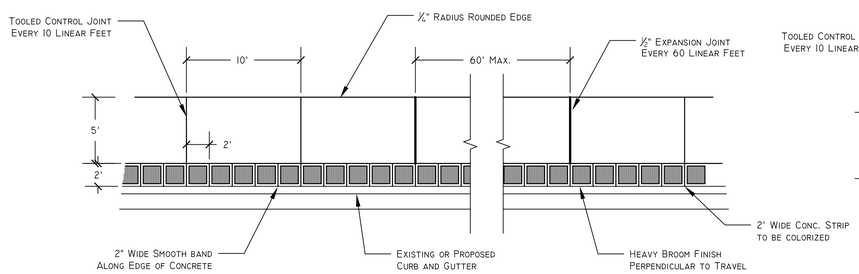
Notes:
1. This detail to be used on existing streets that require substantial cut to construct the proposed sidewalk.
2. Handrails may be required along the top of the proposed wall.
3. See GDOT Standard 9031L.
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #6
NTS



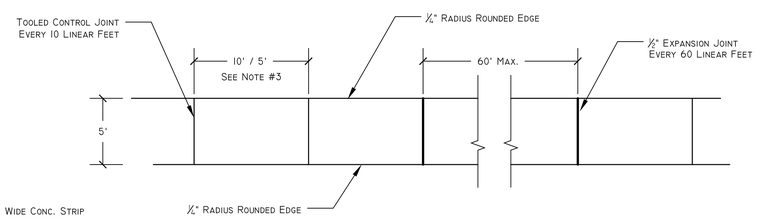
Notes:
1. This detail to be used on existing streets that require substantial fill to construct the proposed sidewalk.
2. Handrails may be required along the top of the proposed wall.
3. See GDOT Standard 9031L.
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #7
NTS



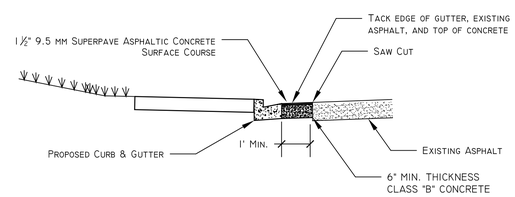
Notes:
1. ½" Expansion Joints to be placed every 60' L.F., where sidewalks abut structures, at driveways, driveway aprons and curb cut ramps.
2. This detail substitutes "Concrete Sidewalk Detail" from GDOT Detail Sheet A3.
3. Proposed Curb & Gutter and Concrete Sidewalk must be formed and poured seperate.
4. Concrete to be placed 4" (except where otherwise specified) thick with tamps, wood floats and stiff bristle brooms to achieve a type 5 sidewalk finish acceptable to Athens-Clarke County Department of Transportation and Public Works.
5. Sidewalk Joints shall be tooled to match curb joints whenever possible.
6. Maximum cross-slope not to exceed 2.00%.
7. 2' wide concrete strip to be colorized concrete per Department direction.

7' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



Notes:
1. ½" Expansion Joints to be placed every 60' L.F., where sidewalks abut structures, at driveways, driveway aprons and curb cut ramps.
2. This detail substitutes "Concrete Sidewalk Detail" from GDOT Detail Sheet A3.
3. Contraction joints shall be placed every 5' in an Urban Section (Curb and Gutter Section) and every 10' in a Rural Section (Shoulder and Ditch Section).
4. Concrete to be placed 4" (except where otherwise specified) thick with tamps, wood floats and stiff bristle brooms to achieve a type 5 sidewalk finish acceptable to Athens-Clarke County Department of Transportation and Public Works.
5. Maximum running slope not to exceed 8.33%.
6. Maximum cross-slope not to exceed 2.00%.

5' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



Notes:
1. Class "B" concrete base or pavement widening item code 500-9999 - cu yds
2. 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 base and paving specified by the typical section. Payment will be made under "class B concrete base and pavement widening.
3. In excavated areas greater that 5'-0" in width, the contractor shall place base and paving as specified on the typical section.
4. See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE
OR WIDENING DETAIL
NTS

REVISIONS:

NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JMP

THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION

120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603

PHONE 706.613.3440
FAX 706.613.3444

PROJECT:
CONSTRUCTION STANDARDS AND DETAILS

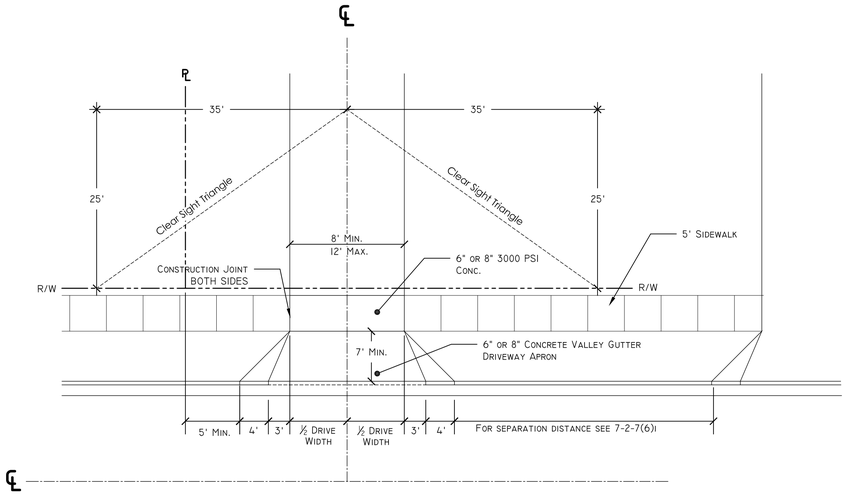
DATE: FEBRUARY 2009

SHEET: TYPICAL SIDEWALK CROSS-SECTIONS (EXISTING STREETS)

SHEET: I-060

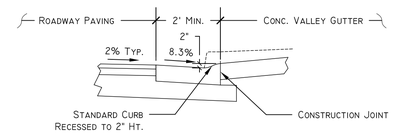
7/22/2009 10:44:45 AM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

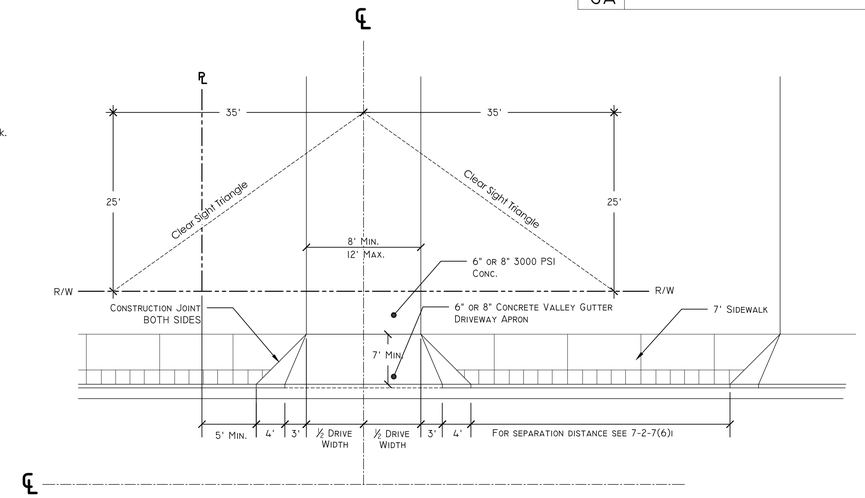


Plan View

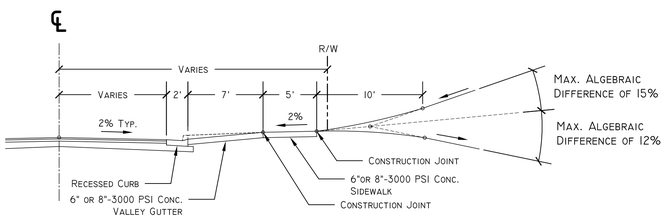
Notes:
1. Sidewalk must be the same thickness of the driveway (6" or 8") through the first full segment of sidewalk.
2. See Typical Intersection Detail 1-040 and 7-2-7(6)ii of Athens-Clarke County Code of Ordinances for driveway separation from intersections.
3. See 7-2-7(6)i of the Athens-Clarke County Code of Ordinance for separation between driveways.



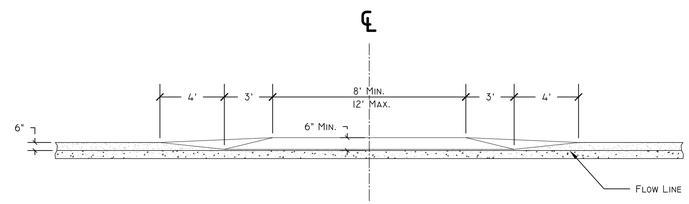
Recessed Curb



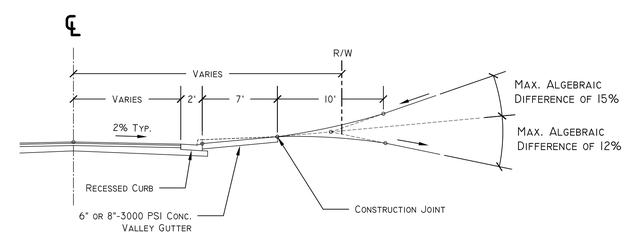
Plan View



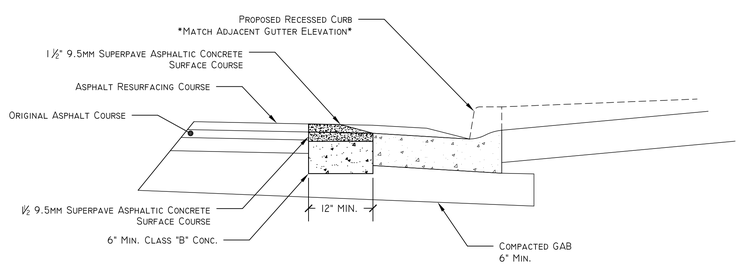
Profile View

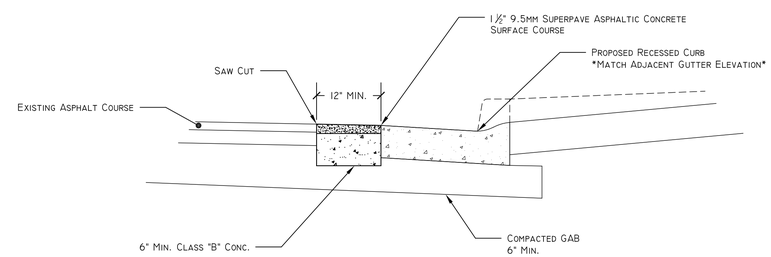


Section View at Flow Line



Profile View





Notes:
1. For installation of curb and gutter along existing streets where excavated area with a width less than 5'.
2. Use typical section detail for excavated areas wider than 5'.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".

Class "B" Concrete Base
NTS

REVISIONS:

NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JMP

The Unified Government of Athens-Clarke County
Department of Transportation and Public Works
Engineering Division
120 West Dougherty Street
Athens, Georgia 30603
Phone 706.613.3440
Fax 706.613.3444

PROJECT: CONSTRUCTION STANDARDS AND DETAILS

DATE: JUNE 2009

SHEET: URBAN RESIDENTIAL DRIVEWAY APRON DETAIL

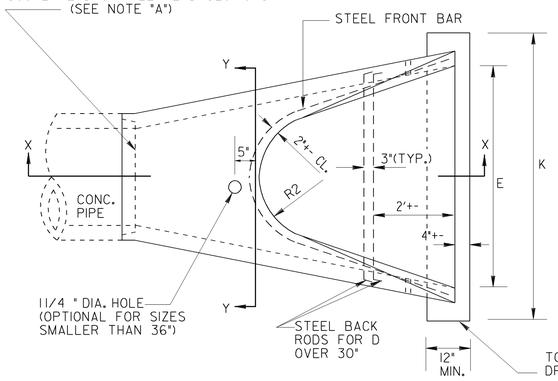
SHEET: 2-010

7/22/2009 10:43:13 AM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

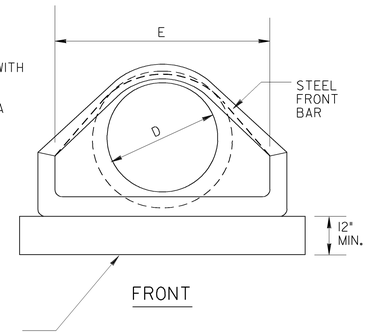
CONCRETE FLARED END SECTION

END SECTION TO PIPE JOINT SHOWN AS TYPICAL:
HUB END ON OUTLET END SECTIONS;
SOCKET END ON INLET END SECTIONS
(SEE NOTE "A")



PLAN

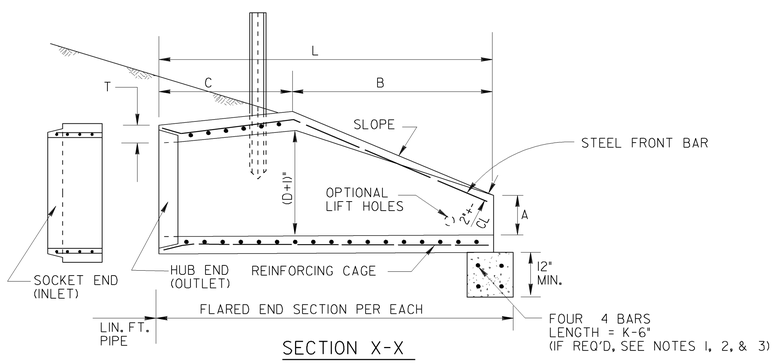
INSTALLATION: (D OVER 30") CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 11/4 " HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR A LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 LIFT POINTS. HOOKS CONNECTED DIRECTLY TO CONCRETE IS NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.



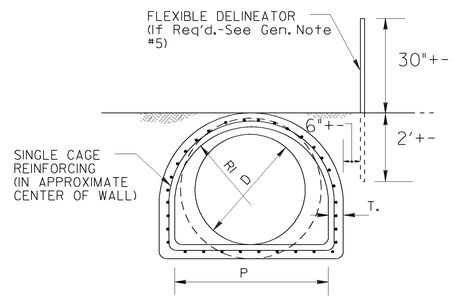
FRONT

TOEWALL IF REQ'D. (TYPICAL FOR STORM DRAIN OUTLETS, SEE GEN. NOTES #1, 2, 3)

NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



SECTION X-X



SECTION Y-Y

REINFORCING CAGE:

(1.) WIRE FABRIC HAVING EQUAL STEEL AREA AS INNER CAGE FOR CLASS II PIPE, AASHTO M-170.
(2.) ALTERNATE: # 3 BARS SPACED 12"+- LONGITUDINALLY WITH # 2 BARS TRANVERSELY AT 6" O.C. MAX. SPACING, SPOT WELDED OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED.)

NOTE "A":

CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.

FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN.

T = PIPE WALL THICKNESS (0.0833D + 1"+- TYPICAL)

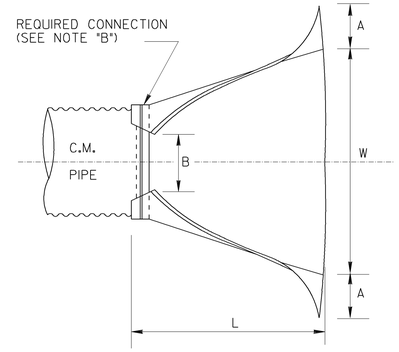
DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+- 1" TOLERANCE)												OUTLET TOEWALL (IF REQ'D)	
PIPE DIA	FRONT BAR	BACK RODS	SLOPE +-	A	B	C *	L *	E	P	RI	R2	K= E + 2'	CU.YDS. CONC.
12"	1-#3 x 5' 4"	NOT REQ'D.	2.2:1	4"	2'0"	4' 1"	6'1"	2'0"	1'8"	10"	9"	4'-0"	.148
15"	1-#3 x 6' 0"	NOT REQ'D.	2.2:1	6"	2'3"	3'10"	6'1"	2'6"	2'0"	1'0"	11"	4'-6"	.167
18"	1-#3 x 7' 2"	NOT REQ'D.	2.2:1	9"	2'3"	3'10"	6'1"	3'0"	2'5"	1'4"	1'0"	5'-0"	.185
24"	1-#3 x 9' 10"	NOT REQ'D.	2.4:1	10"	3'8"	2' 6"	6'2"	4'0"	2'9"	1'5"	1'2"	6'-0"	.222
30"	1-#4 x 11' 8"	NOT REQ'D.	2.4:1	12"	4'6"	1' 8"	6'2"	5'0"	3'1"	1'6"	1'3"	7'-0"	.259
36"	1-#4 x 13' 10"	2-#4 x 6'3"	2.4:1	15"	5'3"	2'11"	8'2"	6'0"	4'0"	2'0"	1'8"	8'-0"	.296
42"	1-#4 x 13' 10"	2-#4 x 7'4"	2.4:1	21"	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	1'10"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

* NOTE: "C" AND "L" DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.

METAL FLARED END SECTION

(USE ONLY WITH COR. METAL PIPE)



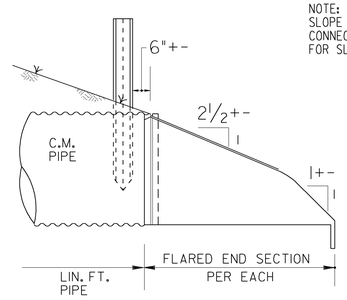
PLAN

NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

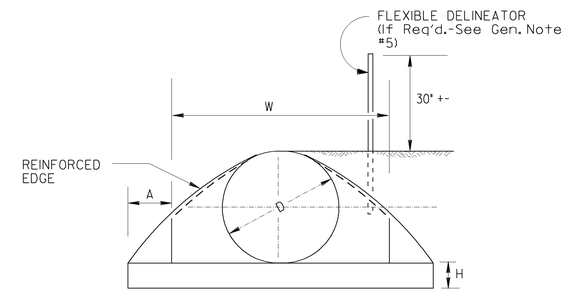
FLARED END SECTION DIMENSIONS							
PIPE SIZE "D"	THICKNESS GALV. STEEL	THICKNESS ALUM.	A A= 0.4D +- 1"	B B=0.5 D +- 1"	H H=0.25D +- 1" (MIN.6")	L L=1.67D +- 1 1/2"	W W=2.0D +- 2"
12"	.064"	.060"	5"	6"	6"	1'8"	2'0"
15"	.064"	.060"	6"	7"	6"	2'3"	2'6"
18"	.064"	.060"	7"	9"	6"	2'6"	3'0"
24"	.064"	.060"	9"	1'0"	6"	3'4"	4'0"
30"	.079"	.105"	1'0"	1'3"	7"	4'2"	5'0"
36"	.079"	.105"	1'2"	1'6"	9"	5'0"	6'0"
42"	.109"	.164"	1'5"	1'9"	10"	5'10"	7'0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL). TO PREVENT OVER-LAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.

NOTE:
SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



SIDE



FRONT

NOTE "B":

THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

(a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE)

(b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.

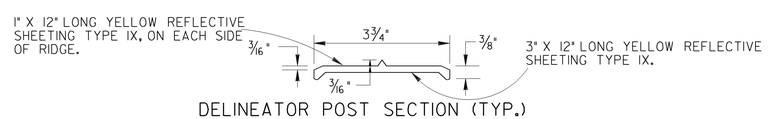
(c) A STUB PIPE WILL BE RIVITED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO THE STUB WITH A NORMAL CONNECTING BAND.

(d) OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE D.O.T.

SPECIAL NOTE:
FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

GENERAL NOTES :

1. TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.
2. TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS "A" OR "B" CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.
3. PRECAST TOEWALLS SHALL BE CL. "A" CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL "A" OR "B" CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.
4. CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE, IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.
5. FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAYMENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.



DELINEATOR POST SECTION (TYP.)

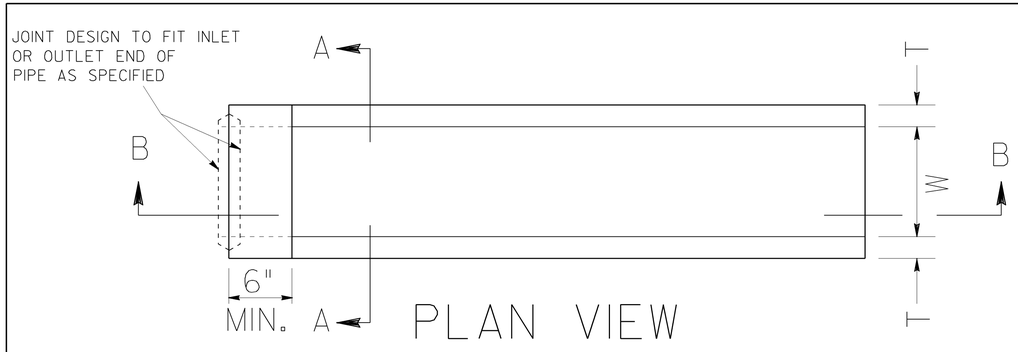
NOTE:
DELINEATOR POST SHALL CONFORM TO SEC. 911 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

SPECIAL NOTE :
PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. "D" DIMENSION FOR FLARED END SECTION SHALL EQUAL THE "D" DIMENSION FOR CONNECTING PIPE CULVERT.

		6-9-06	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		REV. REFLECTIVE SHEETING	REVISION	STANDARD FLARED END SECTIONS FOR PIPES
				NO SCALE — REV. & REDR. SEPT., 1999
		GLO	BY	DES. ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER REV. ____ RETR. ____ (APPROVED) CHIEF ENGINEER CHK. ____

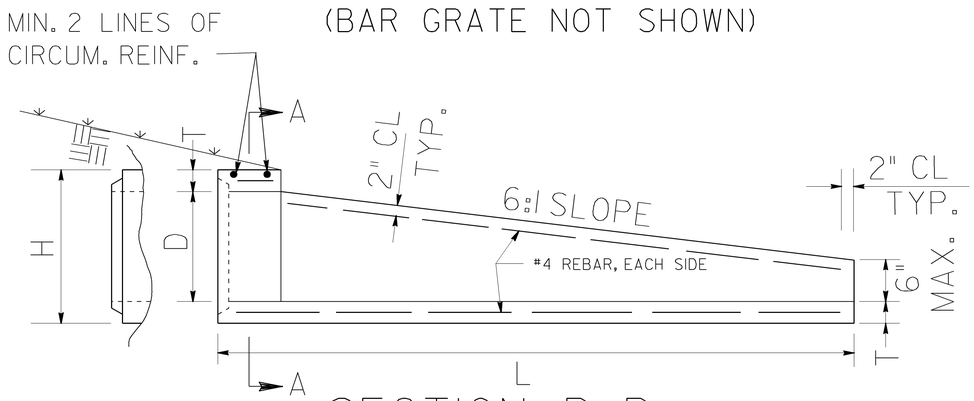
NUMBER 1120

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

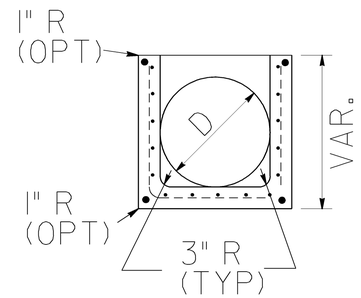
(BAR GRATE NOT SHOWN)



SECTION B-B

ALTERNATE 3

PIPE DIA	T (MIN)	D	H	L
15"	3"	15"	21"	4'-6"
18"	3"	18"	24"	6'-0"
24"	3"	24"	30"	9'-0"
30"	4"	30"	38"	12'-6"
36"	4"	36"	44"	15'-6"
42"	4"	42"	50"	18'-6"
48"	5"	48"	58"	22'-0"



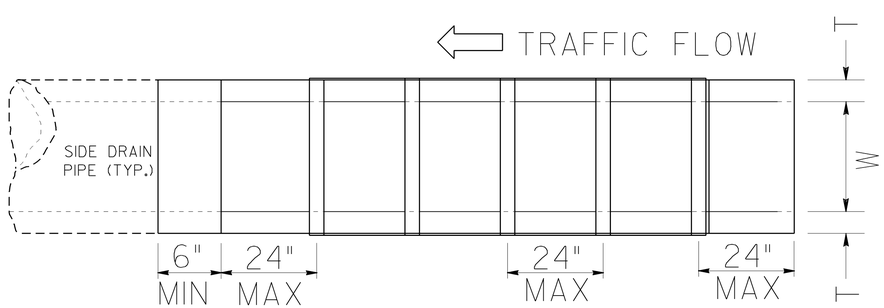
SECTION A-A

GENERAL NOTES:

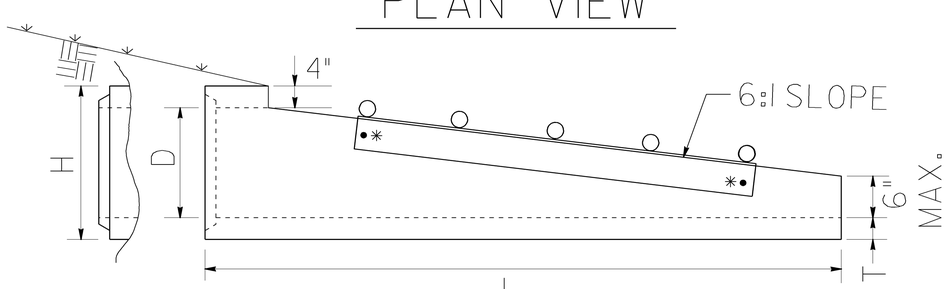
1. CONCRETE STRENGTH SHALL BE 4000 PSI MINIMUM
2. REINFORCING SHALL BE PER AASHTO M170, CLASS II REINFORCED CONCRETE PIPE, PLUS ONE #4 BAR TOP AND BOTTOM, EACH SIDE.
3. WALLS MAY HAVE 1/4" TAPER. WALL THICKNESSES SHOWN ARE THE MINIMUM.
4. LIFT HOLES MAY BE PROVIDED IN THE SIDE WALLS FOR HANDLING.
5. END SECTION JOINT WILL BE A MATCHED FIT TO THE ADJOINING PIPE JOINT AT ALL INLET AND OUTLET ENDS. NON-FITTING JOINTS WILL REQUIRE A BUILT-IN-PLACE REINFORCED COLLAR CONNECTION WITH NO ADDITIONAL PAYMENT.
6. ALL END SECTIONS FOR PIPES WITH "D" OVER 24" ON SINGLE LINES WILL HAVE GALV. SAFETY BARS, SPACED NOT MORE THAN 24" ON CENTERS, AND INSTALLED PERPENDICULAR TO THE MAINLINE TRAFFIC FLOW. ALL END SECTIONS FOR MULTIPLE LINE PIPES WILL HAVE GRATES.
7. TYPICAL USE OF SAFETY END SECTIONS IS AT THE ENDS OF PIPES UNDER DRIVEWAYS OR SIDEROADS WHERE THE PIPE CULVERT IS PARALLEL TO THE MAINLINE AND FALLS INSIDE THE MAINLINE CLEAR ZONE WIDTH.

D	(MIN) GRATE LENGTH	GRATE WIDTH (TYP) #
15"	2'-4"	1'-9 5/8"
18"	2'-4"	2'-0 5/8"
24"	6'-4"	2'-6 5/8"
30"	8'-6"	3'-2 5/8"
36"	12'-4"	3'-8 5/8"
42"	14'-6"	4'-2 5/8"
48"	18'-4"	4'-10 5/8"

TYPICAL GRATE WIDTHS SHOWN ARE MEASURED FROM INSIDE TO INSIDE OF THE 3/8" THICK ANGLE IRON. GRATE FIT WITH END SECTION SHALL BE CHECKED BEFORE DELIVERY.

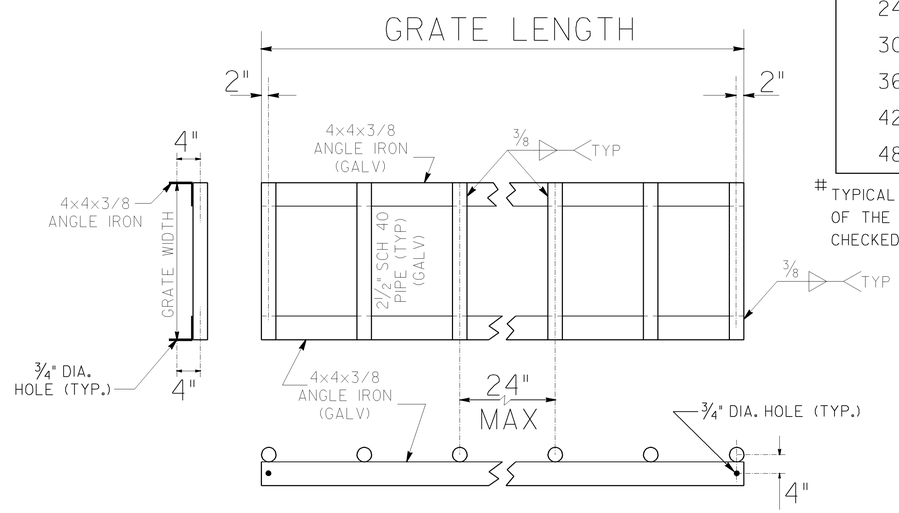


PLAN VIEW



SIDE VIEW

* 5/8" GALV. HEX HEAD BOLT, WASHER & NUT (FOUR) CONNECTIONS

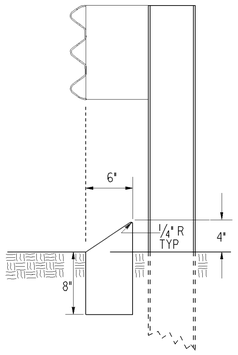


GALVANIZED SAFETY GRATE DETAIL

	1-28-05	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
	REVISED TO 1122 PAGE 3	REVISION	STANDARD SAFETY END SECTION (CONCRETE) (FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE) ALTERNATE 3 NO SCALE — OCT., 2000
G.L.O.	BY	DESIGNED DRAWN TRACED CHECKED	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER
			NUMBER 1122 SHEET 3 OF 3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		41	48

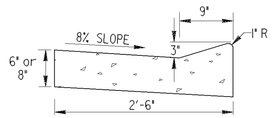
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 401 2C.

RAISED EDGE WITH CONCRETE GUTTER



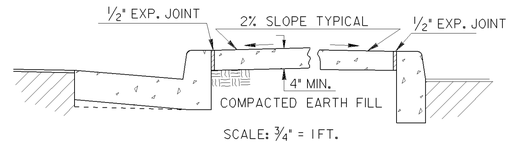
SCALE: 1" = 1FT.

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.

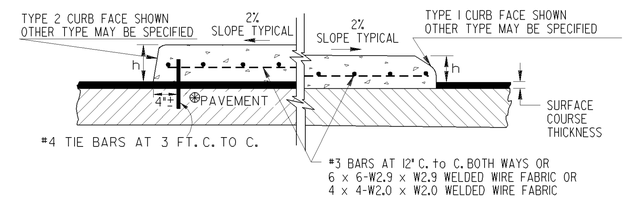


SCALE: 3/4" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

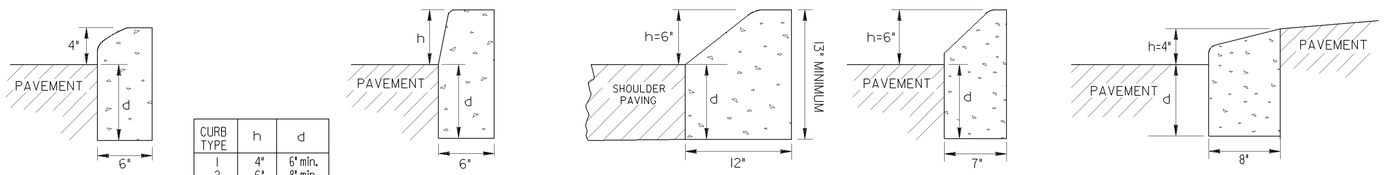
CONCRETE MEDIANS (Integral)

SCALE: 1"=1FT.



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

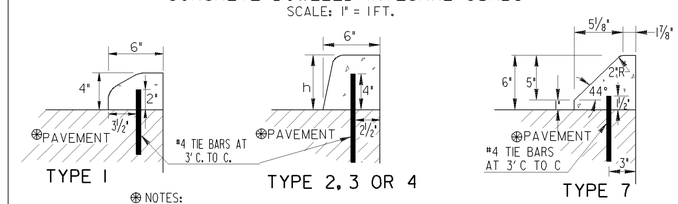
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

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.



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.

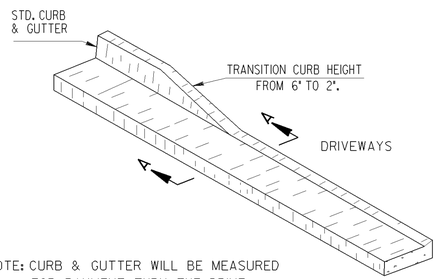
MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

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)

DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE

PICTORIAL VIEW

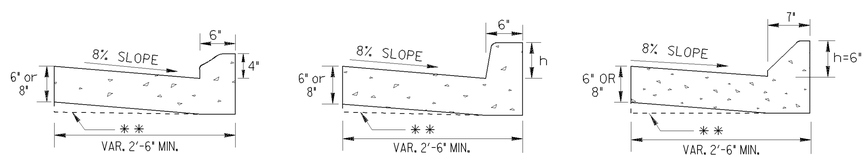


NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE

SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

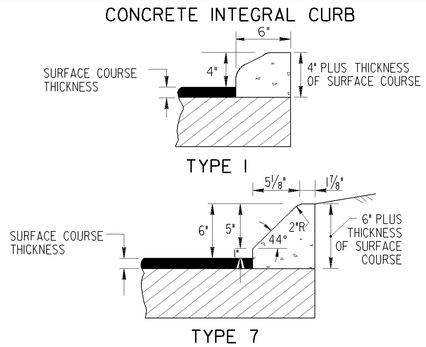


SCALE: 1"= 1FT.

TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7

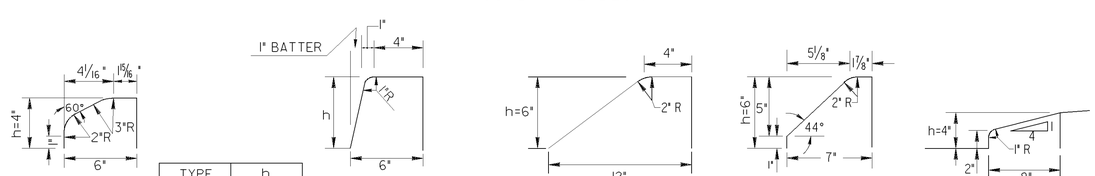
** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CONCRETE INTEGRAL CURB



SCALE: 1 1/2" = 1FT.

CURB FACE DESIGN



TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

SCALE: 2"=1FT.

DATE	REVISION	BY
11-15-11	REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	TC
1-27-11	REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	GLO
3-03	ADDED TYPE 9 DETAIL	

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. ____

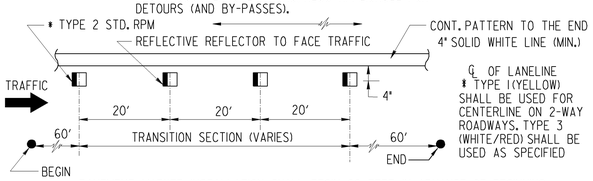
(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 9032B

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		42	48

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.

BY	REVISION	DATE
GLO	REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.	3-30-06
	SPEC. BAR. SH. SPEC.	4-24-01

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

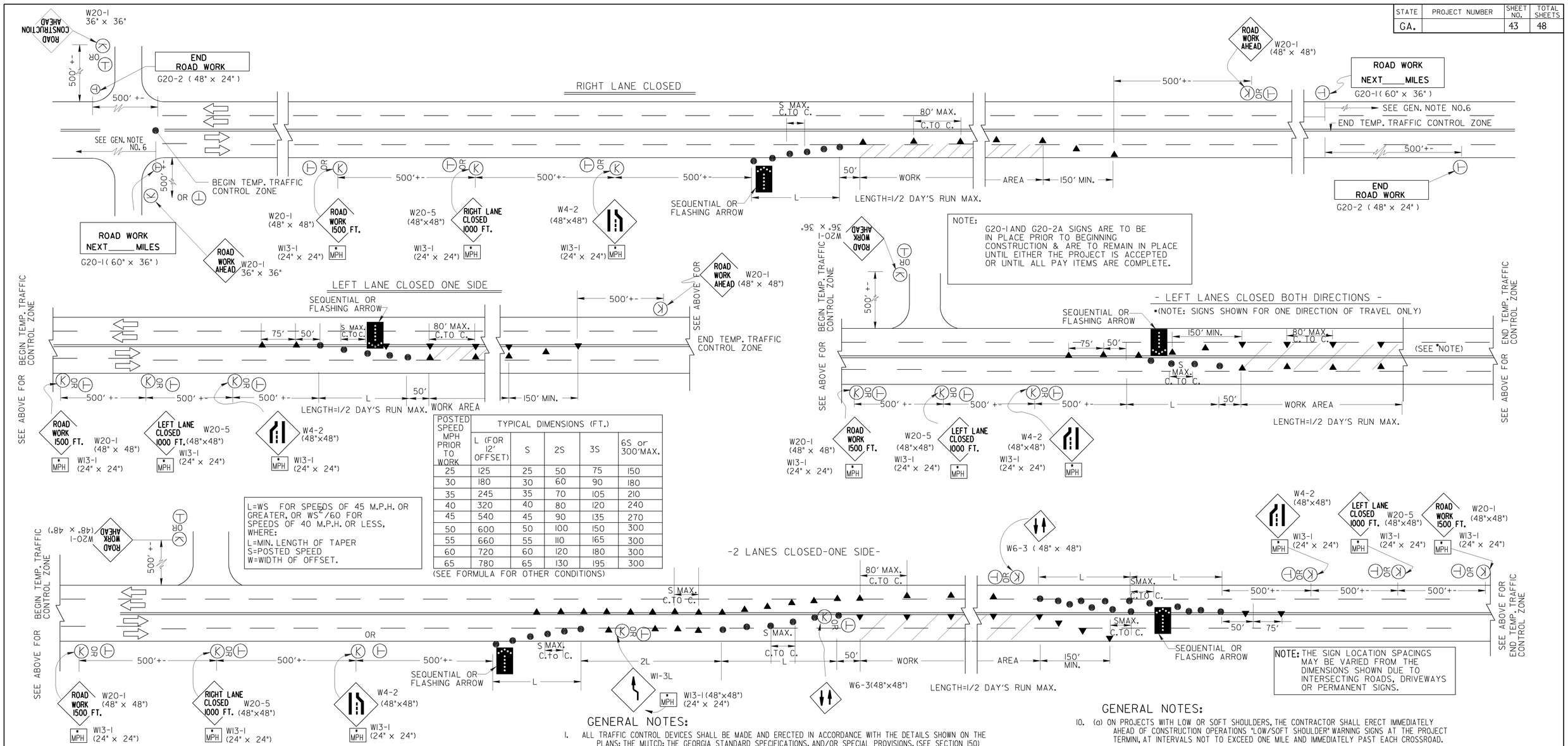
DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9100

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		43	48



NOTE:
G20-1 AND G20-2A SIGNS ARE TO BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION & ARE TO REMAIN IN PLACE UNTIL EITHER THE PROJECT IS ACCEPTED OR UNTIL ALL PAY ITEMS ARE COMPLETE.

*(NOTE: SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY)

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS, DRIVEWAYS OR PERMANENT SIGNS.

L=WS FOR SPEEDS OF 45 M.P.H. OR GREATER, OR $WS^2/60$ FOR SPEEDS OF 40 M.P.H. OR LESS, WHERE:
L=MIN. LENGTH OF TAPER
S=POSTED SPEED
W=WIDTH OF OFFSET.

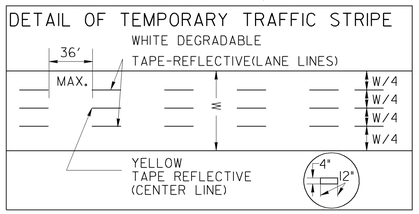
POSTED SPEED MPH PRIOR TO WORK	TYPICAL DIMENSIONS (FT.)				
	L (FOR 12' OFFSET)	S	2S	3S	6S or 300'MAX.
25	125	25	50	75	150
30	180	30	60	90	180
35	245	35	70	105	210
40	320	40	80	120	240
45	540	45	90	135	270
50	600	50	100	150	300
55	660	55	110	165	300
60	720	60	120	180	300
65	780	65	130	195	300

(SEE FORMULA FOR OTHER CONDITIONS)

FOR LOCATIONS ON THIS PROJECT INVOLVING ADDED TURN LANES, THE DISTRICT TRAFFIC OPERATIONS OFFICE WILL FURNISH A SCHEMATIC DRAWING OF THE TEMPORARY PAVEMENT MARKINGS AT THE PRE-CONSTRUCTION CONFRENCE.

(WHERE OTHER PAVEMENT MARKINGS ARE REQUIRED FOR TRAFFIC CONTROL, SEE SEC.150)

DETAIL OF TEMPORARY TRAFFIC STRIPE



- 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.

STANDARD LEGEND

- ● STRIPED DRUM
- ⊢ TEMPORARY POST MOUNTED SIGN (OFF SHOULDER) --FOR LONG TERM LANE CLOSURE SUCH AS STATIONARY OPERATIONS, BRIDGE WIDENING PROJECTS ETC. - (7' MOUNT HEIGHT)
- Ⓚ PORTABLE MOUNTED SIGN (ON SHOULDER) --FOR SHORT TERM LANE CLOSURE SUCH AS MOVING OPERATIONS, RESURFACING PROJECTS, ETC. (SEE GENERAL NOTE. NO. 3)
- ▲ TRAFFIC CONE - 28" MIN. (DAYTIME USE ONLY)
- SEQUENTIAL OR FLASHING ARROW
- WORK AREA

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. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE.
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.

GENERAL NOTES:

10. (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.
11. 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.
12. THE G20-1 SIGNS SHOULD BE PLACED AT EACH TERMINUS OF THE PROJECT, PREFERABLY BETWEEN THE LAST ADVANCE WARNING SIGN(ROAD WORK- 500 FT.) AND BEFORE THE ADVANCE WARNING SIGNS FOR LANE SHIFTS, LANE CLOSURES, ETC.

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 MULTI-LANE UNDIVIDED HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

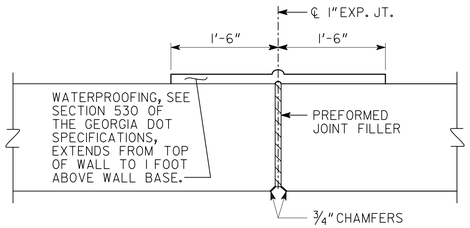
DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

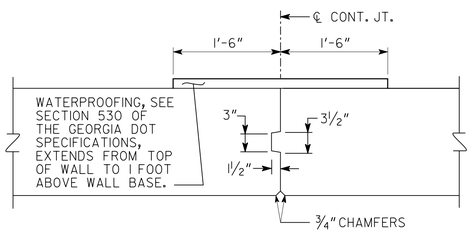
NUMBER 9107

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



DETAIL OF EXPANSION JOINT

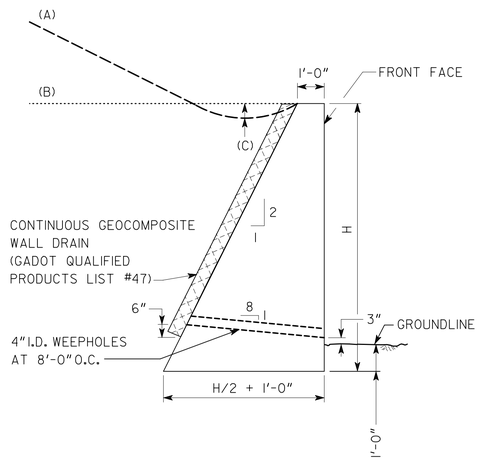
SEE GENERAL NOTE #3



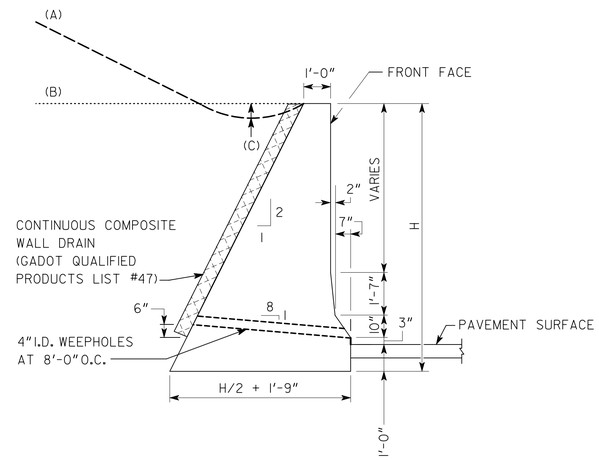
DETAIL OF CONTRACTION JOINT

SEE GENERAL NOTE #3

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

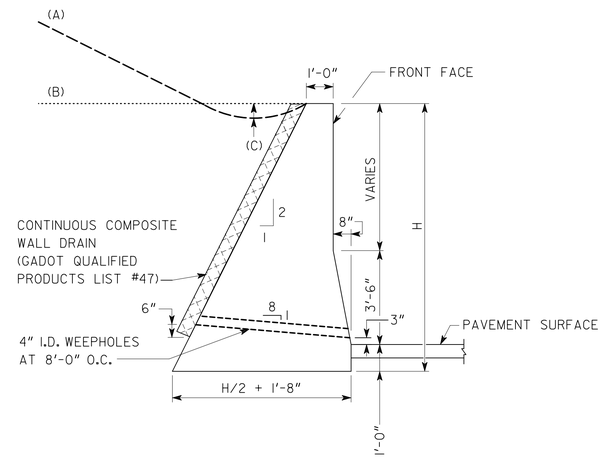


TYPICAL SECTION A



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"

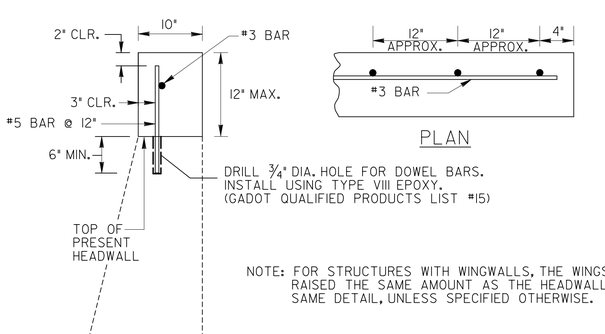
GENERAL NOTES:

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

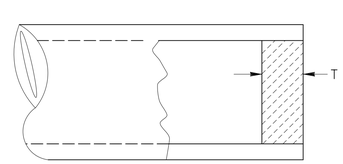


PLAN

SECTION

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

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

NO SCALE: REV. & REDR. SEPT, 2016

REV. & C.E.W. (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
REDR.
CHK. D.D.E. (APPROVED) STATE HIGHWAY ENGINEER

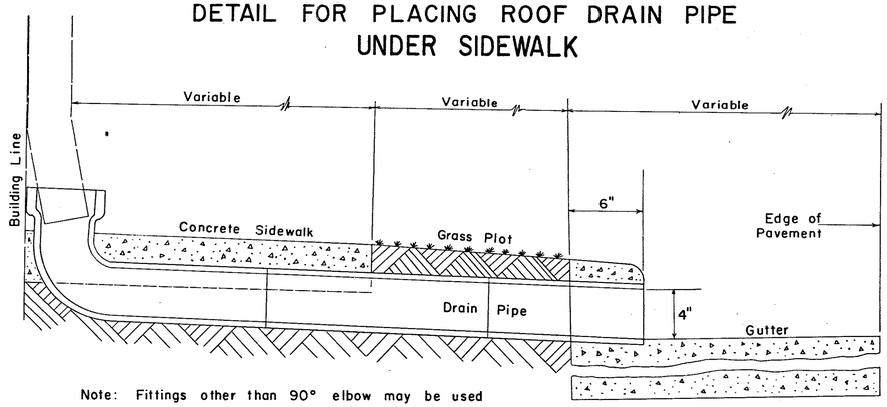
NUMBER 9031L
SHEET 1 OF 2

DATE | REVISION | BY

9031L_Revised_2016-10-25.dgn

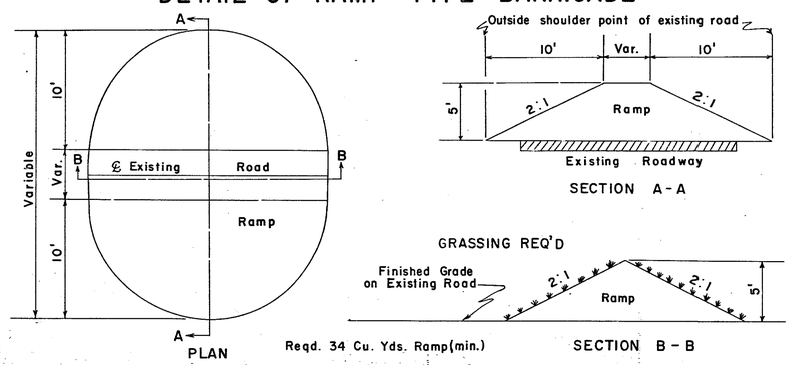
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAIL FOR PLACING ROOF DRAIN PIPE UNDER SIDEWALK



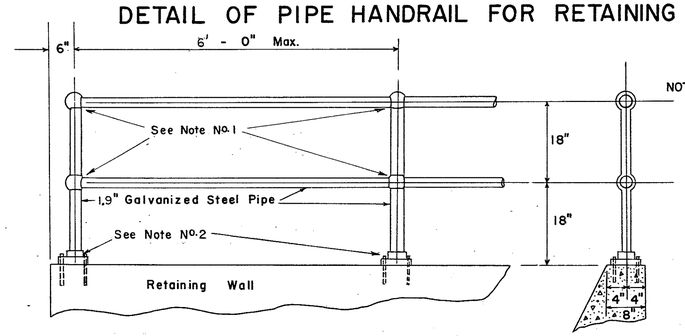
Note: Fittings other than 90° elbow may be used to satisfy other conditions.

DETAIL OF RAMP TYPE BARRICADE



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

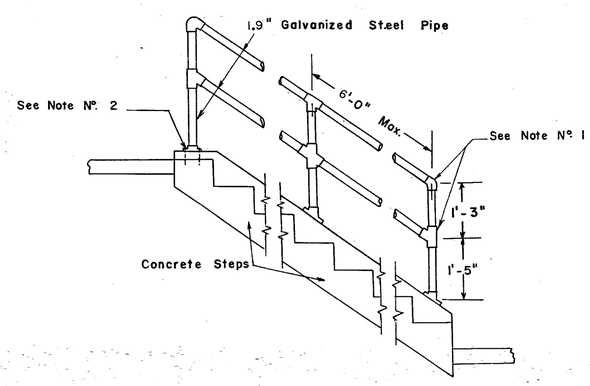
DETAIL OF PIPE HANDRAIL FOR RETAINING WALL



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	REVISIONS	DATE
R.M.U.	Designated 1.9" O.D. Handrail	10-11-88
R.M.U.	Add. Conc. Potch. Detail B	11-26-75
R.M.U.	Hand rail for Conc. Steps	2-1-76
R.M.U.	Rev. Handrailing	2-10-76
R.M.U.	Ramp detail:-Rem. Sprig.	2-10-78

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: AVS
TRACED: AVS
CHECKED: RBS

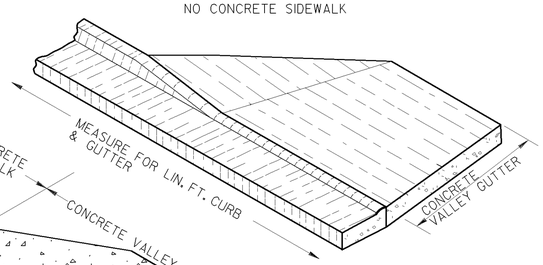
SUBMITTED: John McWilliams Jr. STATE ROAD DESIGN ENGINEER
APPROVED: [signature] STATE HIGHWAY ENGINEER

NUMBER 9031R

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		44	48

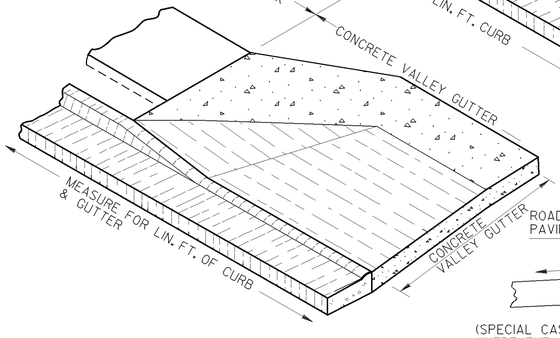
PICTORIAL SECTION

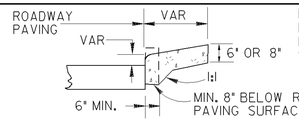
NO CONCRETE SIDEWALK



PICTORIAL SECTION

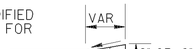
DRIVEWAY & CONRETE SIDEWALK





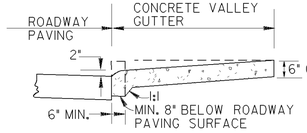
SECTION E-E

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

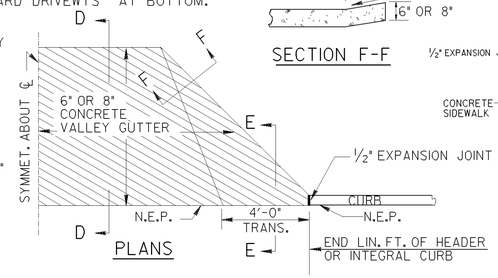


SECTION F-F

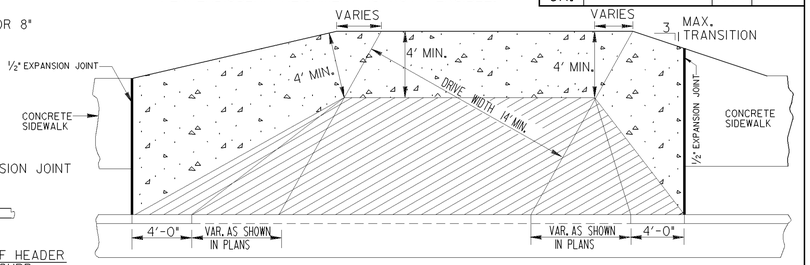
NOTE: DRIVEWAYS WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



SECTION D-D

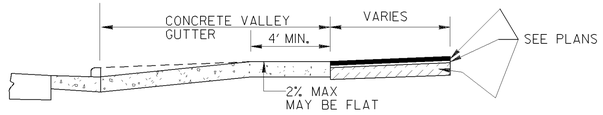


PLANS

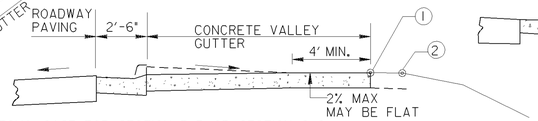


DRIVE ENTRANCE MODIFIED FOR SKEW

DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY



SECTION WITH ASPHALT PAVING

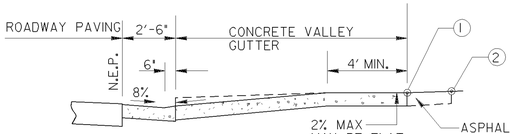


(SPECIAL CASE FOR SECTION B-B OR SECTION C-C: WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

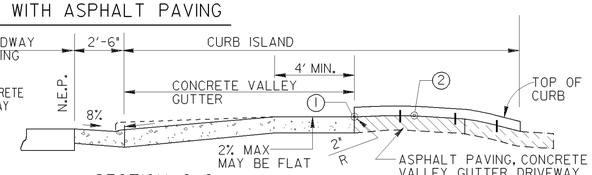
(1) IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

(2) IS BEGINNING OF DRIVEWAY TIE-IN.

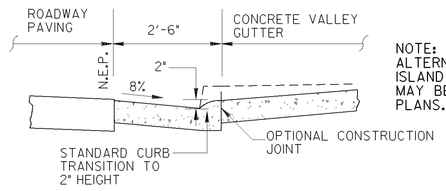
NOTE: (1) AND (2) MAY COINCIDE



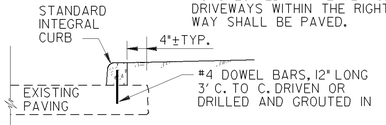
SECTION B-B



SECTION C-C



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.

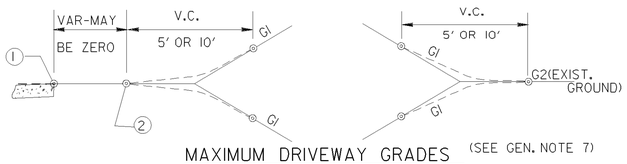
(1) IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

(2) IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: (1) AND (2) MAY COINCIDE

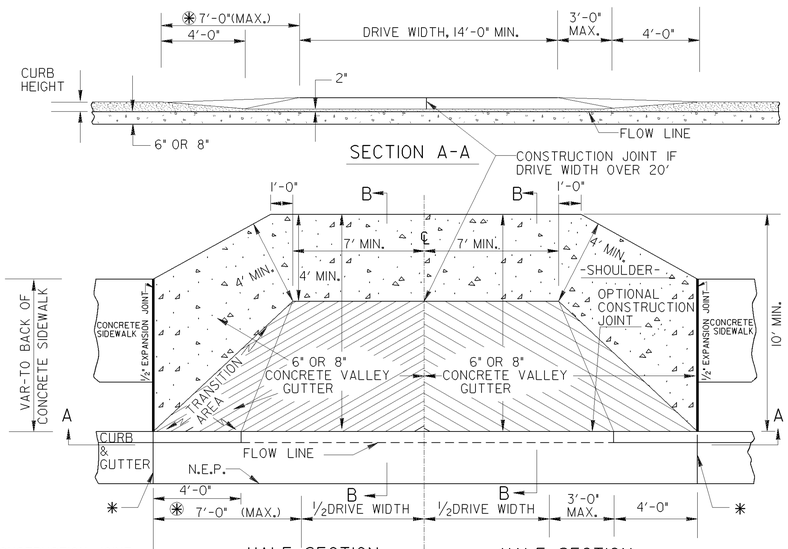
V.C.	MAXIMUM GI	
	CUT	FILL
5'	27%	16.67%
10'	28%	27%

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



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050



* 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

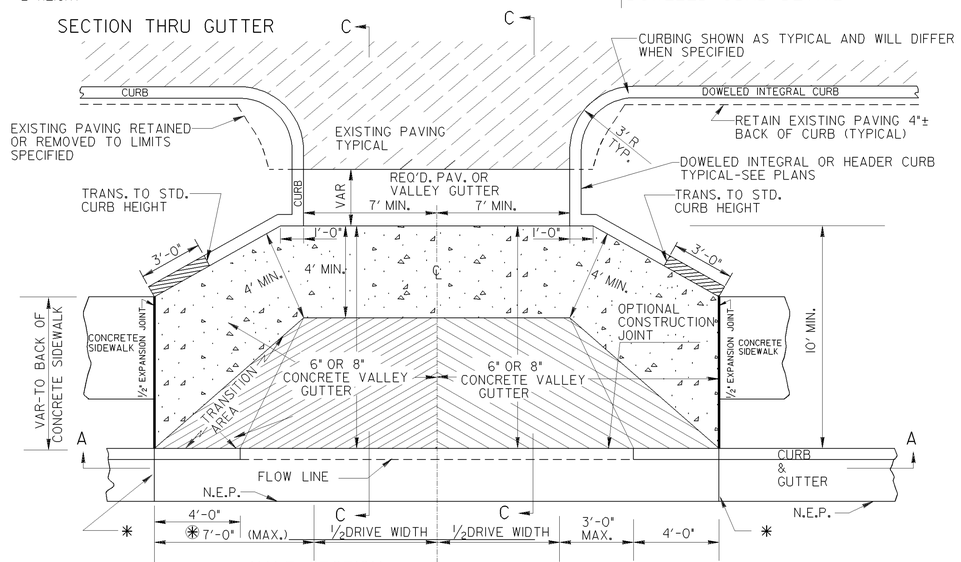
HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

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

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.

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

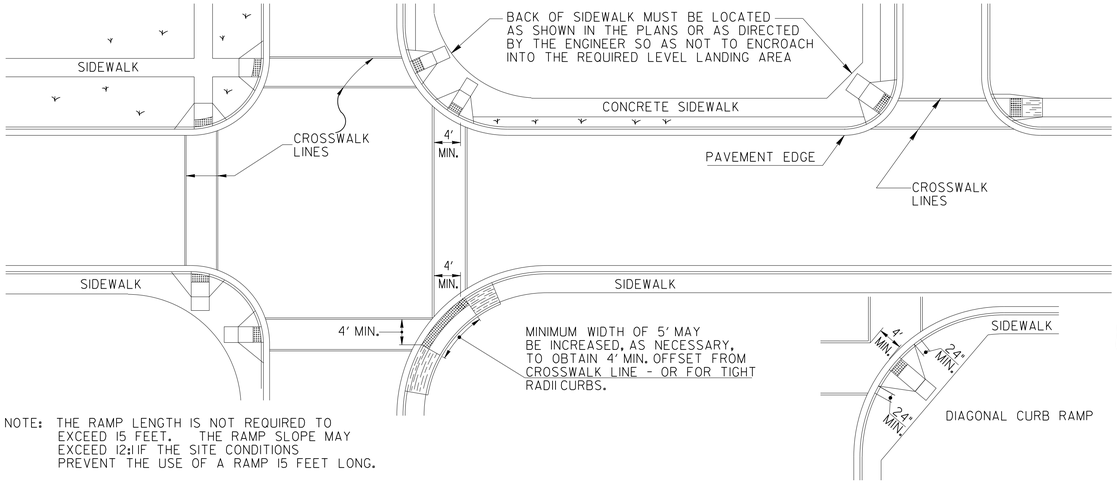
CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

NUMBER A1

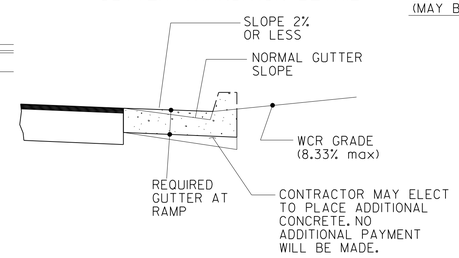
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		45	48

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

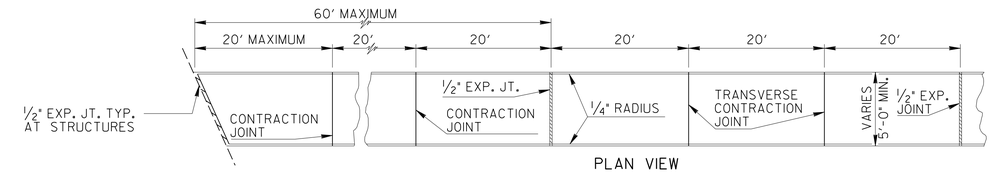


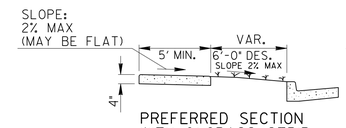
NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

GUTTER TRANSITION DETAIL



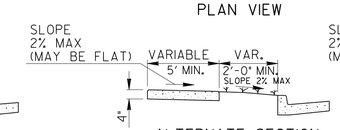
CONCRETE SIDEWALK DETAILS



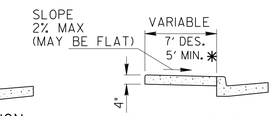


PREFERRED SECTION WITH 6' GRASS STRIP

✱16' SHOULDER RECOMMENDED WITH THIS INSTALLATION



ALTERNATE SECTION WITH GRASS STRIP



ALTERNATE SECTION WITHOUT GRASS STRIP

✱5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS, ETC)

7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK)

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.

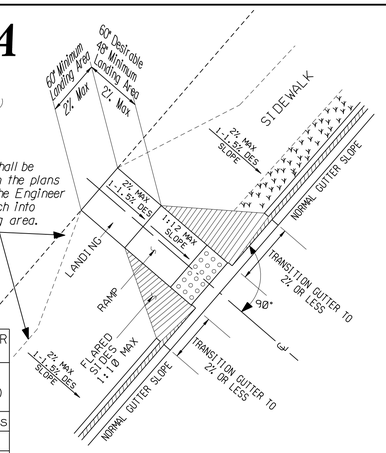
NOTES FOR CURB CUT RAMPS:

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.

Type A

(Perpendicular)

(The Preferred Ramp)

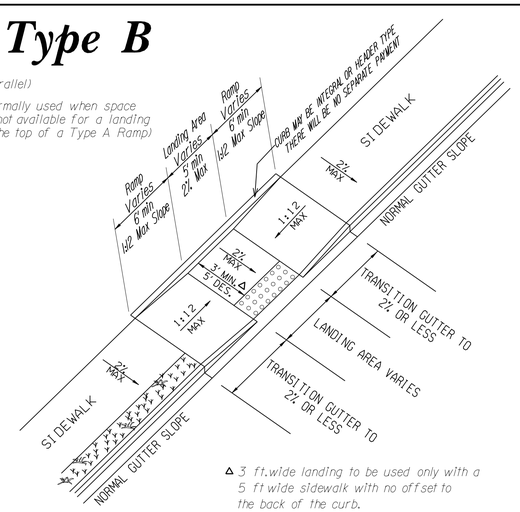


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B

(Parallel)

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

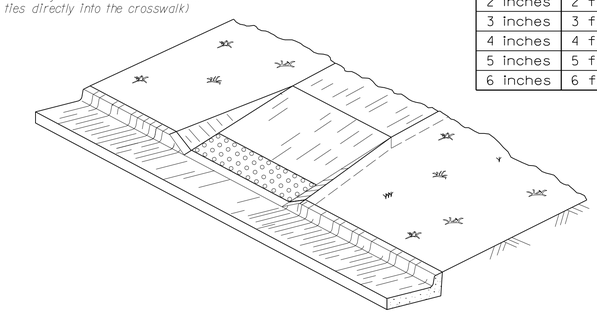


Δ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

(Perpendicular)

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

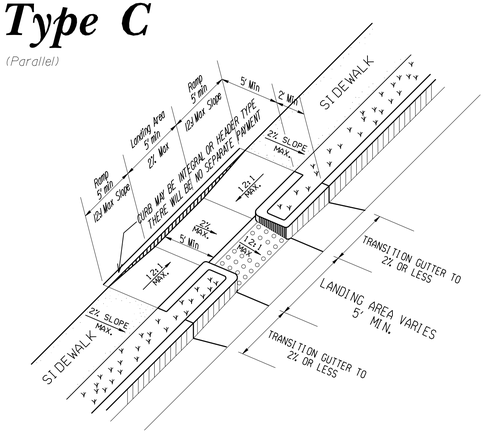


LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet

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

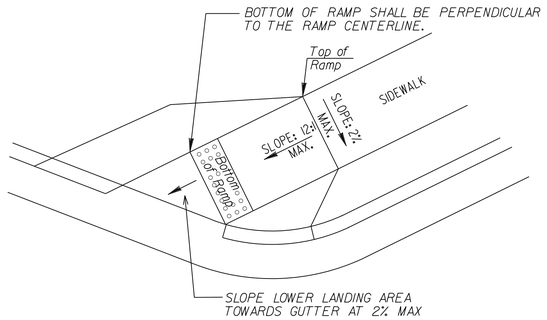
(Parallel)

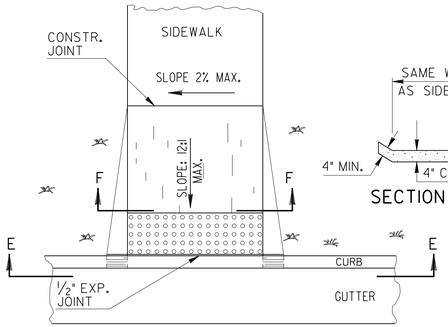


Skewed Ramp Details

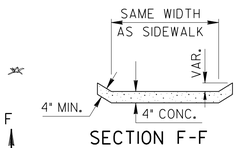
(Applies to Type A Type D Ramps Only)

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.

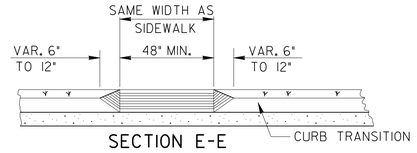




PLAN VIEW



SECTION F-F



SECTION E-E

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.

REVISION	DATE
ADDED PERP. OR PARALLEL	9-15-16
REV. SLOPES TO PERCENT	6-18-09
AND ADDED 12:1 & 10:1 CHART.	
ADDED GEN. NOTE NO. 8.	
REV. TRUNCATED DOMES	5-10-06
REVISED	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

C.JB
G.L.O

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

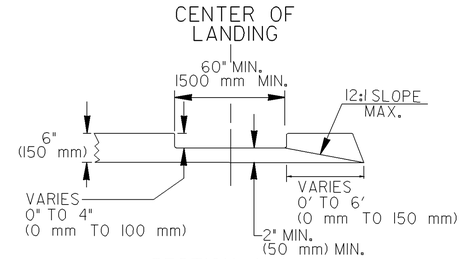
SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE

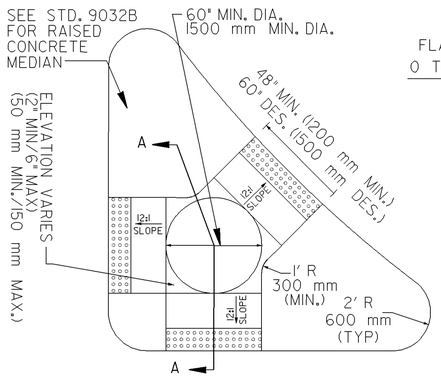
MARCH 12, 2002

NUMBER
A3

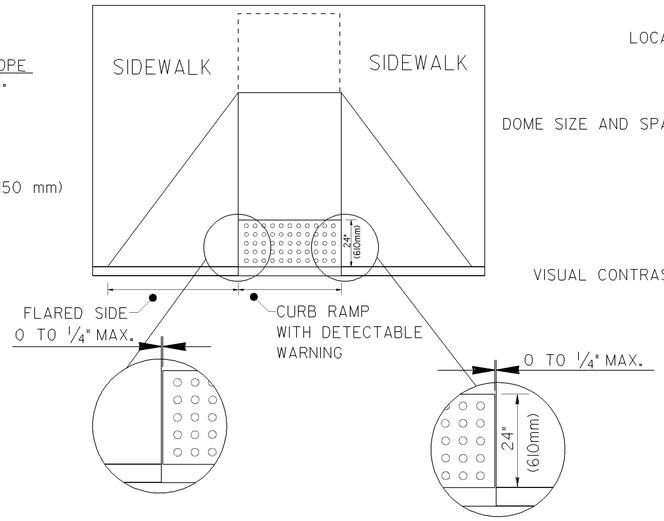
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		46	48



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.

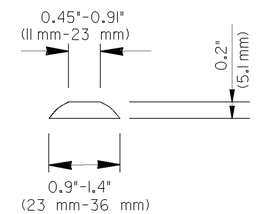
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

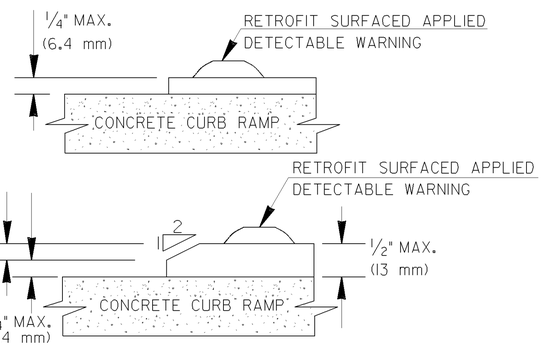
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

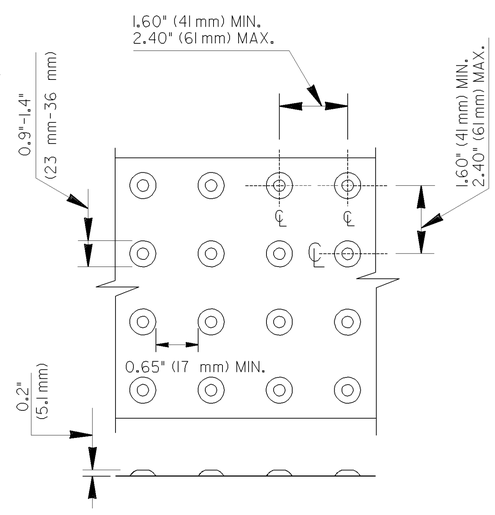
GENERAL NOTES:

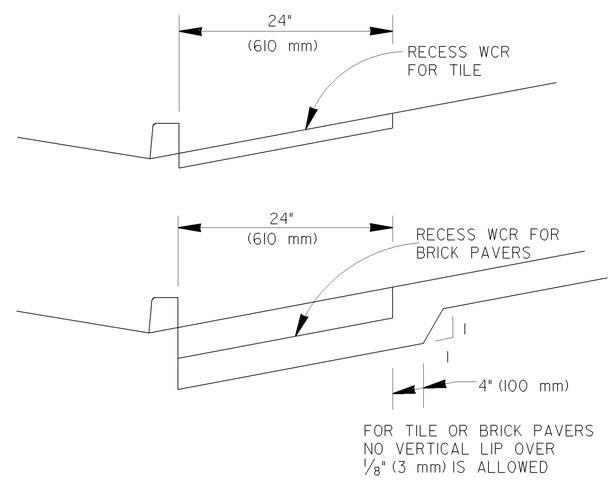
RETROFIT SURFACED APPLIED MATERIALS ONLY:

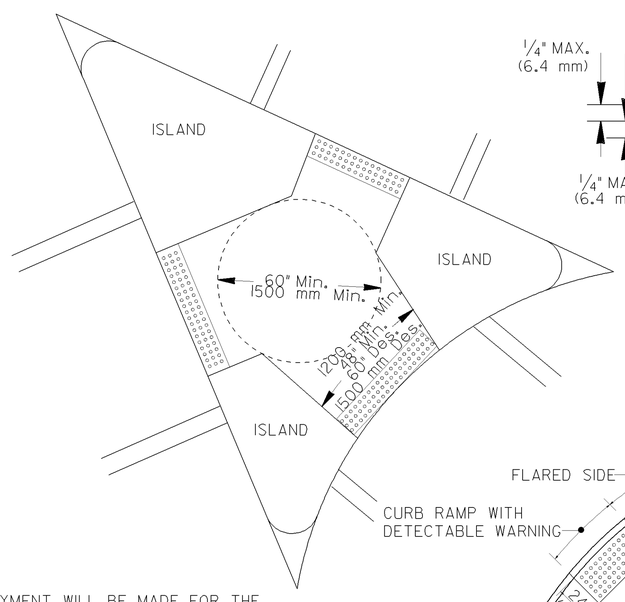
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

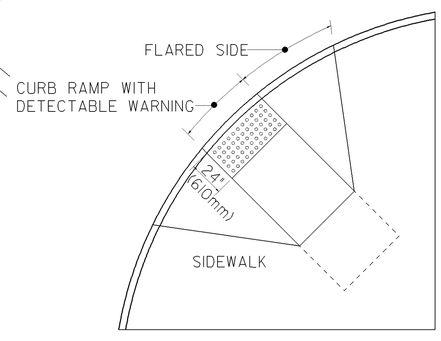




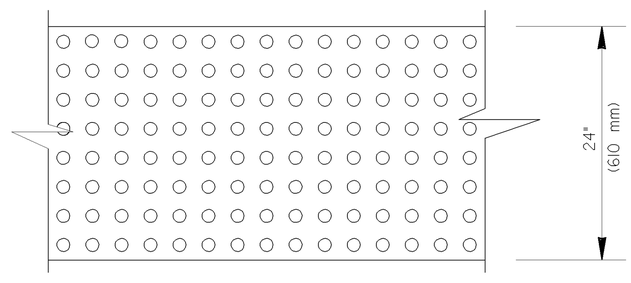








DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

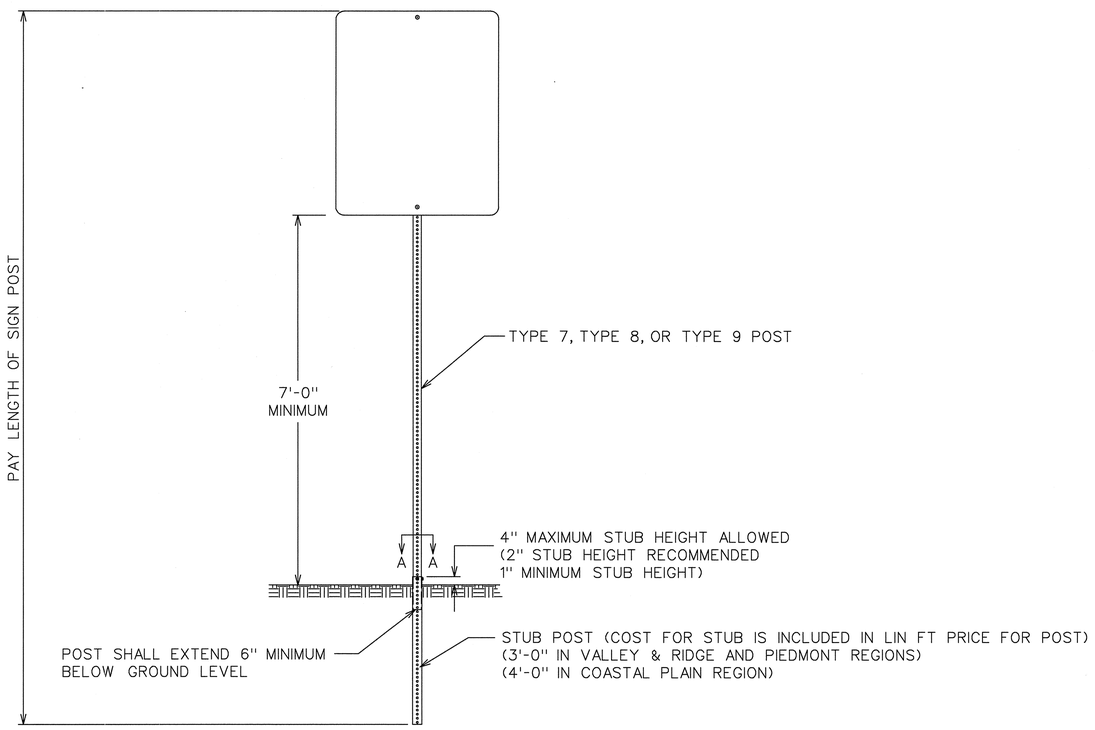
SPECIAL DETAIL

DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

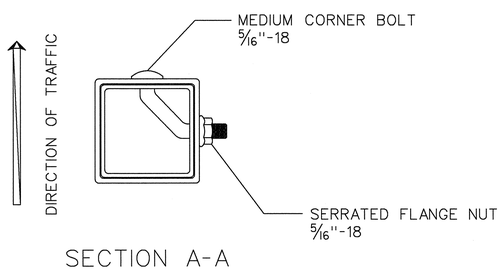
NUMBER A4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		47	48



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

Sign Centroid	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.		
	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.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

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

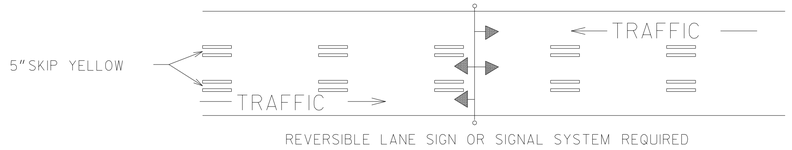
NO SCALE JULY 2002

T-3A

PCBOTB

...\t03sp0047d95.dgn Jul 03, 2003 16:10:11

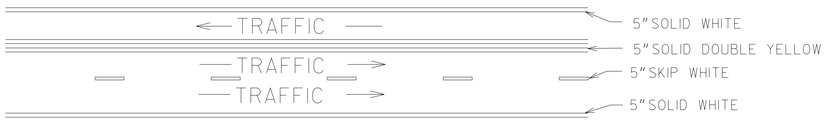
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		48	48



REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

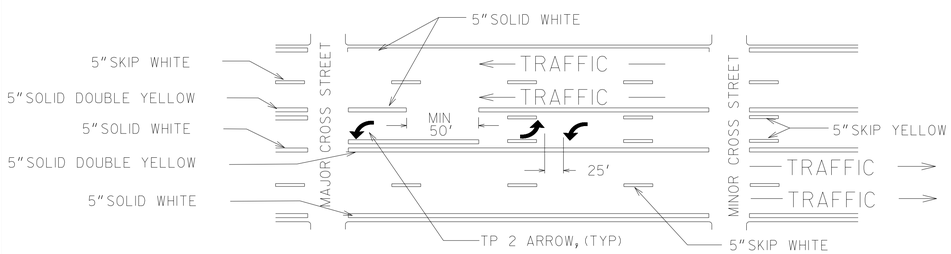
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

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

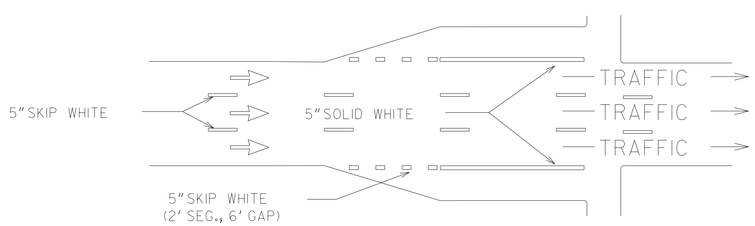


TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS

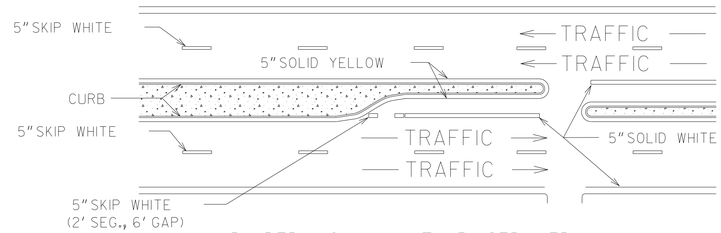
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



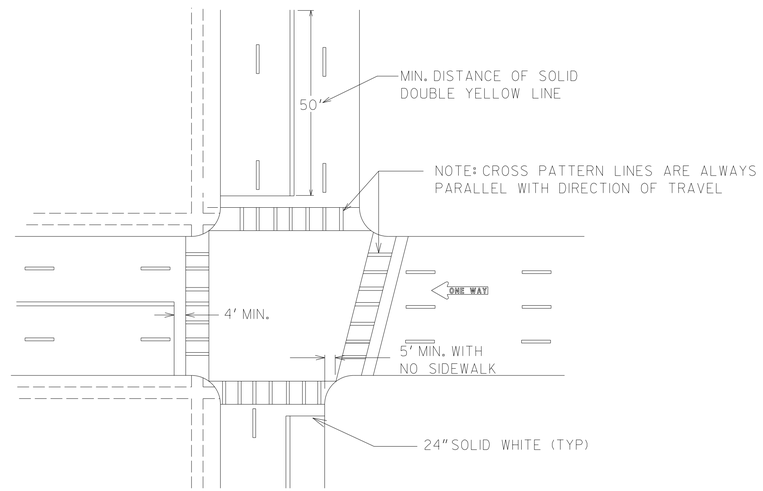
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



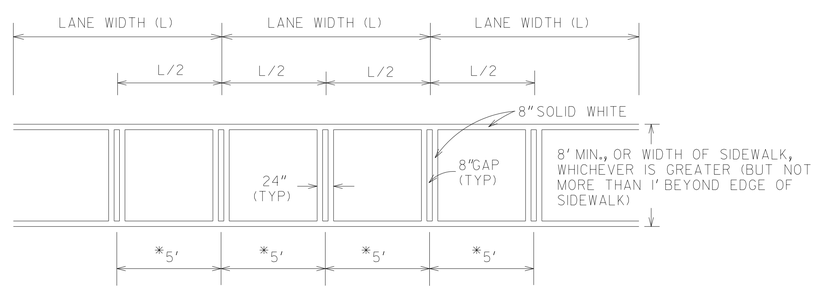
ONE-WAY TRAFFIC WITH ADDED TURN LANES



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-11B.

	9-5-16	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
	ADDED GENERAL NOTE 3	REVISION	CONSTRUCTION DETAILS PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY
			NO SCALE — JANUARY 2000
	CDR	BY	DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____ — NUMBER T-11A