

CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- LIGHTING PLANS

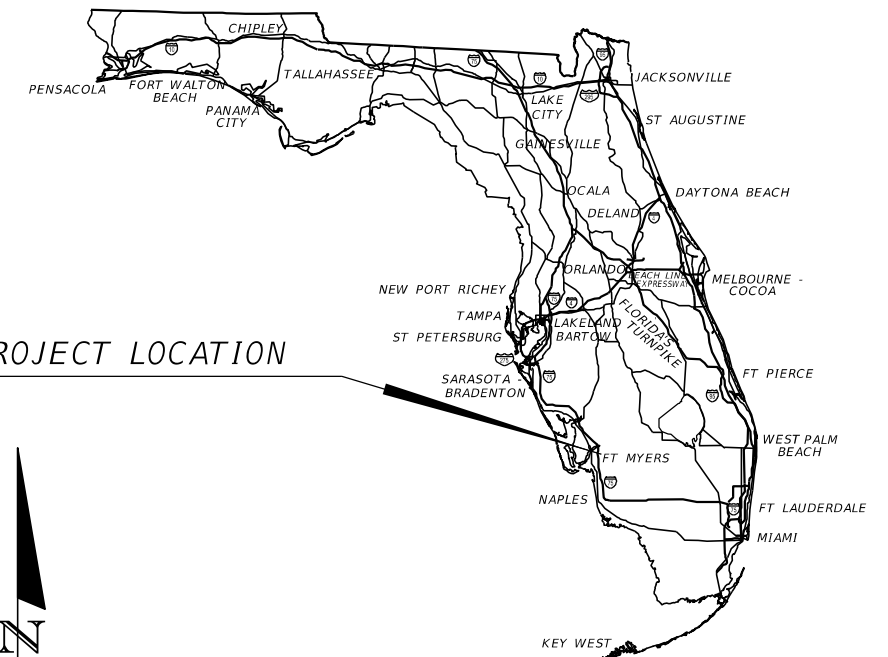
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

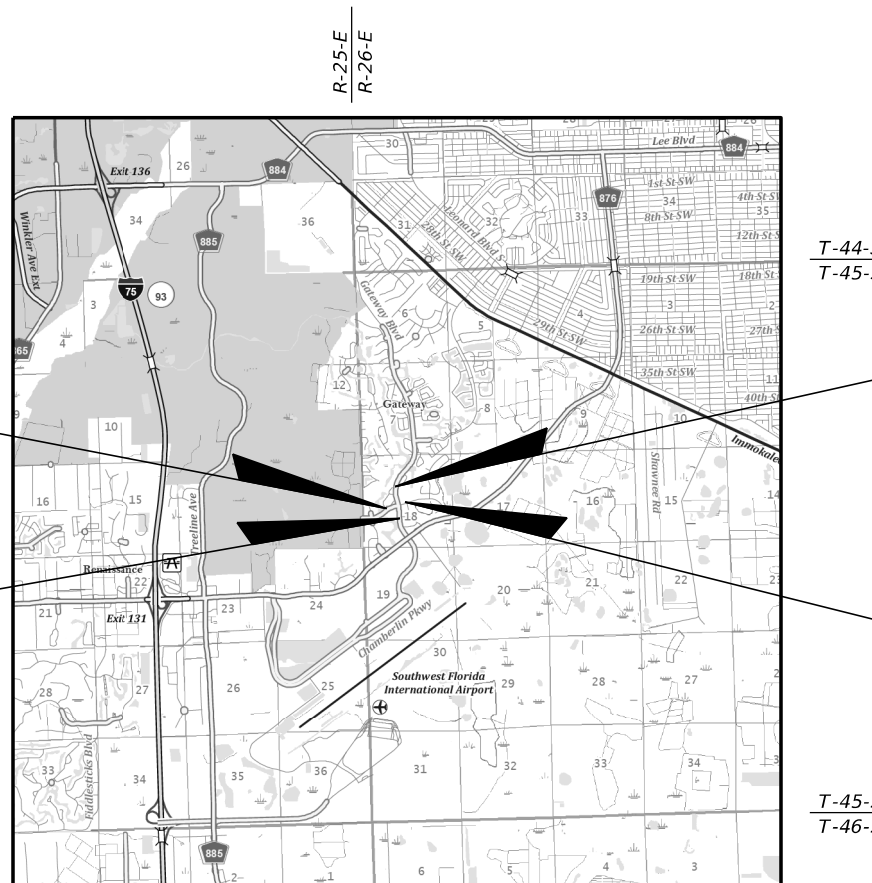
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**GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBABOUT)**



PROJECT LOCATION



**BEGIN PROJECT LIMITS
COMMERCE LAKES DR.
SURVEY
STA. 205+79.71**

**BEGIN PROJECT
GATEWAY BLVD.
SURVEY
STA. 105+19.88**

**END PROJECT
GATEWAY BLVD.
SURVEY
STA. 113+03.08**

**END PROJECT LIMITS
COMMERCE LAKES DR.
SURVEY
STA. 215+20.46**

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: N/A

GOVERNING STANDARD SPECIFICATIONS:

Lee County Department of Transportation Specifications, and Florida Department of Transportation, JULY2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

**ROADWAY PLANS
ENGINEER OF RECORD:**

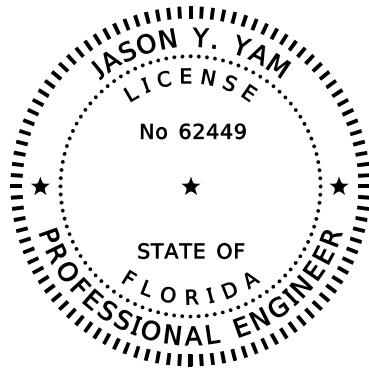
JASON Y. YAM, P.E.
P.E. NO.: 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FL 33759
(727) 531-3505
CERTIFICATE OF AUTHORIZATION NO.: 29915

COUNTY PROJECT MANAGER:

Alejandro J. Slaibe, P.E.

CIP NO.	FISCAL YEAR	SHEET NO.
200671	20	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



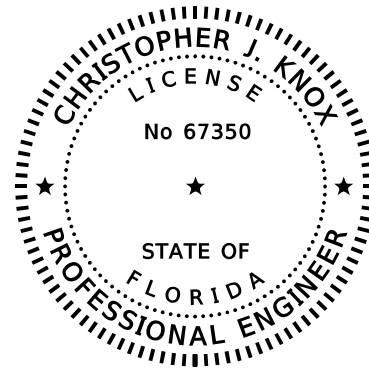
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CARDNO
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FL 33759
PHONE NUMBER: (727) 531-3505
CERTIFICATE OF AUTHORIZATION NO. 29915
JASON Y. YAM, P.E. 62449

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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SQ-1 - SQ-12	SUMMARY OF QUANTITIES



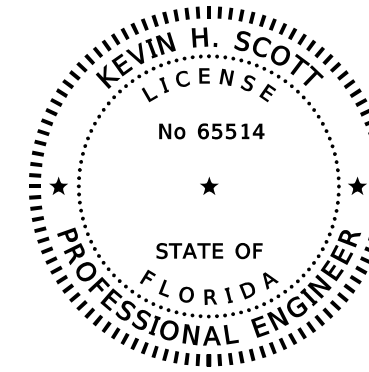
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CARDNO
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FL 33759
PHONE NUMBER: (727) 531-3505
CERTIFICATE OF AUTHORIZATION NO. 29915
CHRISTOPHER J. KNOX, P.E. 67350

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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
11	SUMMARY OF DRAINAGE STRUCTURES
28-29	DRAINAGE STRUCTURES
44-47	EROSION CONTROL



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TIERRA
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
PHONE NUMBER: (727) 531-3505
CERTIFICATE OF AUTHORIZATION NO. 6486
KEVIN H. SCOTT, P.E. 65514

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.


<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
30	ROADWAY SOIL SURVEY

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SIGNATURE SHEET			
								200671	2

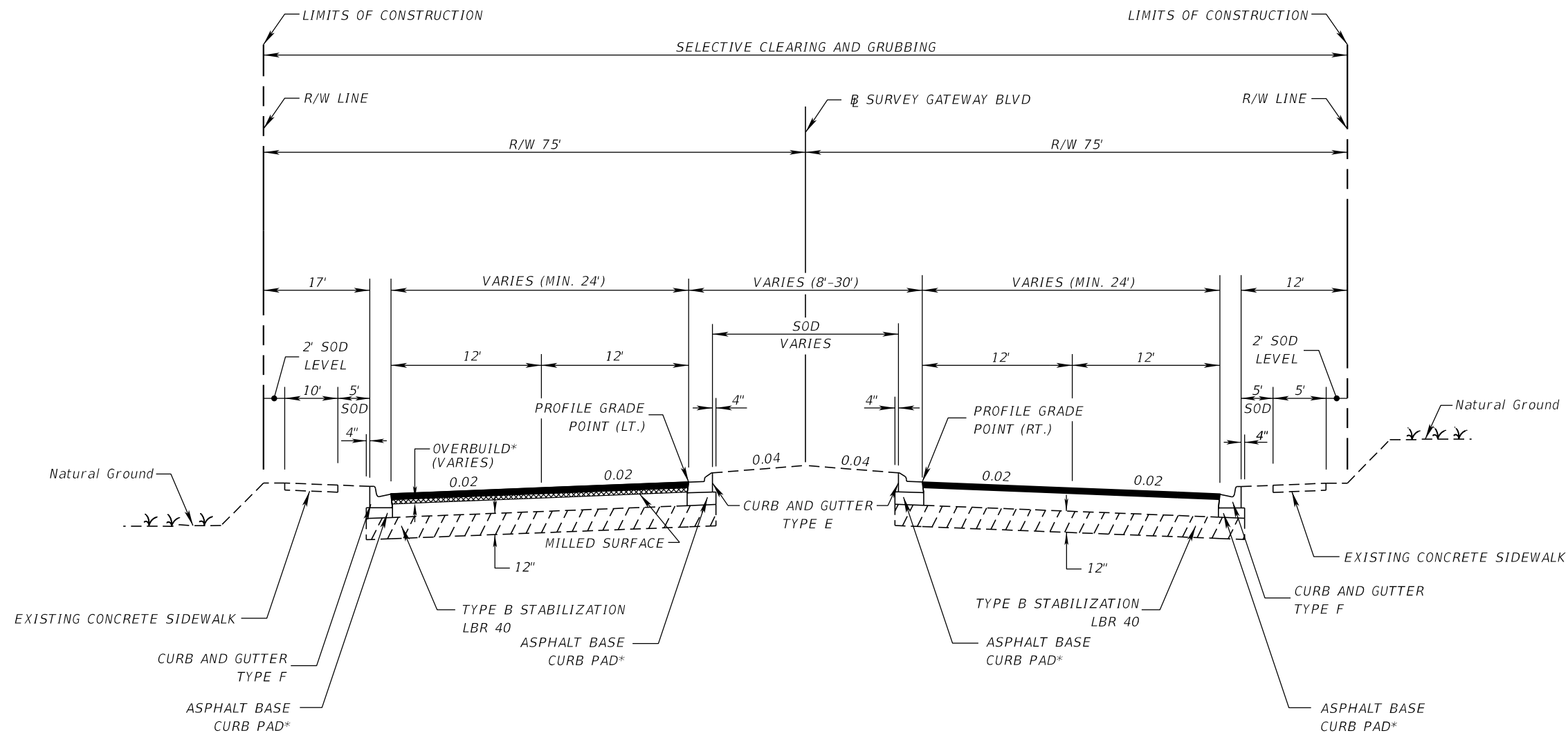
SUMMARY OF ROADWAY			
PAY ITEM	DESCRIPTION	UNITS	QTY
0101-1	MOBILIZATION	LS	1
0102-1	MAINTENANCE OF TRAFFIC	LS/DA	365
0104- 10- 3	SEDIMENT BARRIER	LF	3736
0104- 15-	SOIL TRACKING PREVENTION DEVICE	EA	4
0104- 18-	INLET PROTECTION SYSTEM	EA	20
0107- 1	LITTER REMOVAL	AC	29.64
0107- 2	MOWING	AC	29.64
0110- 2- 2	SELECTIVE CLEARING AND GRUBBING	LS/AC	1
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	1178
0120 1	REGULAR EXCAVATION	CY	2889
0120 6	EMBANKMENT	CY	865
0160-4	TYPE B STABILIZATION	SY	7556
0285-709	OPTIONAL BASE GROUP 9	SY	5996
0327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	5250
0334-1-13	SUPERPAVE ASPHALT CONC, TRAFFIC LEVEL C (2.5")	TN	1185.9
0337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG76-22	TN	815.6
0350-30-13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	SY	414
0400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	4
0425-1-351	INLETS, CURB, TYPE P-5, < 10'	EA	2
0425-1-361	INLETS, CURB, TYPE P-6, < 10'	EA	2
0425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA	2
0425-1-561	INLETS, DITCH BOTTOM, TYPE F, <10'	EA	3
0425-1-711	INLETS, GUTTER, TYPE V, <10'	EA	1
0425-2-61	MANHOLES, P-8, <10'	EA	1
0430-175-115	PIPE CULVERT, CONCRETE, ROUND 15" S/CD	LF	8
0430-175-118	PIPE CULVERT, CONCRETE, ROUND 18" S/CD	LF	132
0430-175-130	PIPE CULVERT, CONCRETE, ROUND 30" S/CD	LF	34
0430-175-215	PIPE CULVERT, CONCRETE, ELLIPTICAL, 12" x 18" ID	LF	31
0430-175-218	PIPE CULVERT, CONCRETE, ELLIPTICAL, 14" x 23" ID	LF	478
515-2-311	PEDESTRIAN/BICYCLE RAILING, 42", ALUMINUM	LF	47
0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	2879
0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	2754
0520-2-4	CONCRETE CURB, TYPE D	LF	210
0520-2-8	CONCRETE CURB, TYPE RA	LF	275
0522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1900
0524-1-29	CONCRETE DITCH PAVEMENT - REINFORCED (4")	SY	8
0527-2	DETECTABLE WARNINGS	SF	324
0570-1-2	PERFORMANCE TURF, SOD	SY	7093
0919-528	DIRECTIONAL INDICATORS	SF	129
***	ROOT BARRIER	LF	2286

SUMMARY OF SIGNING AND PAVEMENT MARKINGS			
PAY ITEM	DESCRIPTION	UNITS	QTY
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS	16
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	24
700-1-60	SINGLE POST SIGN, REMOVE	AS	7
700-2-11	MULTI-POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2
700-2-12	MULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2
706-3	RETROREFLECTIVE PAVEMENT MARKERS (RPMs)	EA	157
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	480
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0.048
711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM	0.044
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	65
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 6-10 DOTTED EXTENSION LINE, 6"	GM	0.025
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	470
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	445
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	9
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	27
711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.742
711-16-102	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	GM	0.181
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM	0.167
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.605

SUMMARY OF LIGHTING			
PAY ITEM	DESCRIPTION	UNITS	QTY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	405
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2480
635-2-11	PULL & SPLICE BOX, F&I	EA	25
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE (12')	EA	3
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO 8 TO NO 6	LF	12675
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	2107
715-4-12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT	EA	16
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	7
715-7-11	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA	1

REVISIONS				<p>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915</p>		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF PAY ITEMS			
								200671	3

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TYPICAL SECTION (1)
 GATEWAY BLVD.
 STA. 111+50.00 TO STA. 113+03.08 (LT.)

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 23,100
 ESTIMATED OPENING YEAR = 2020 AADT = 23,200
 ESTIMATED DESIGN YEAR = 2040 AADT = 24,407
 DESIGN HOUR T = 3.4%
 DESIGN SPEED = 35 MPH

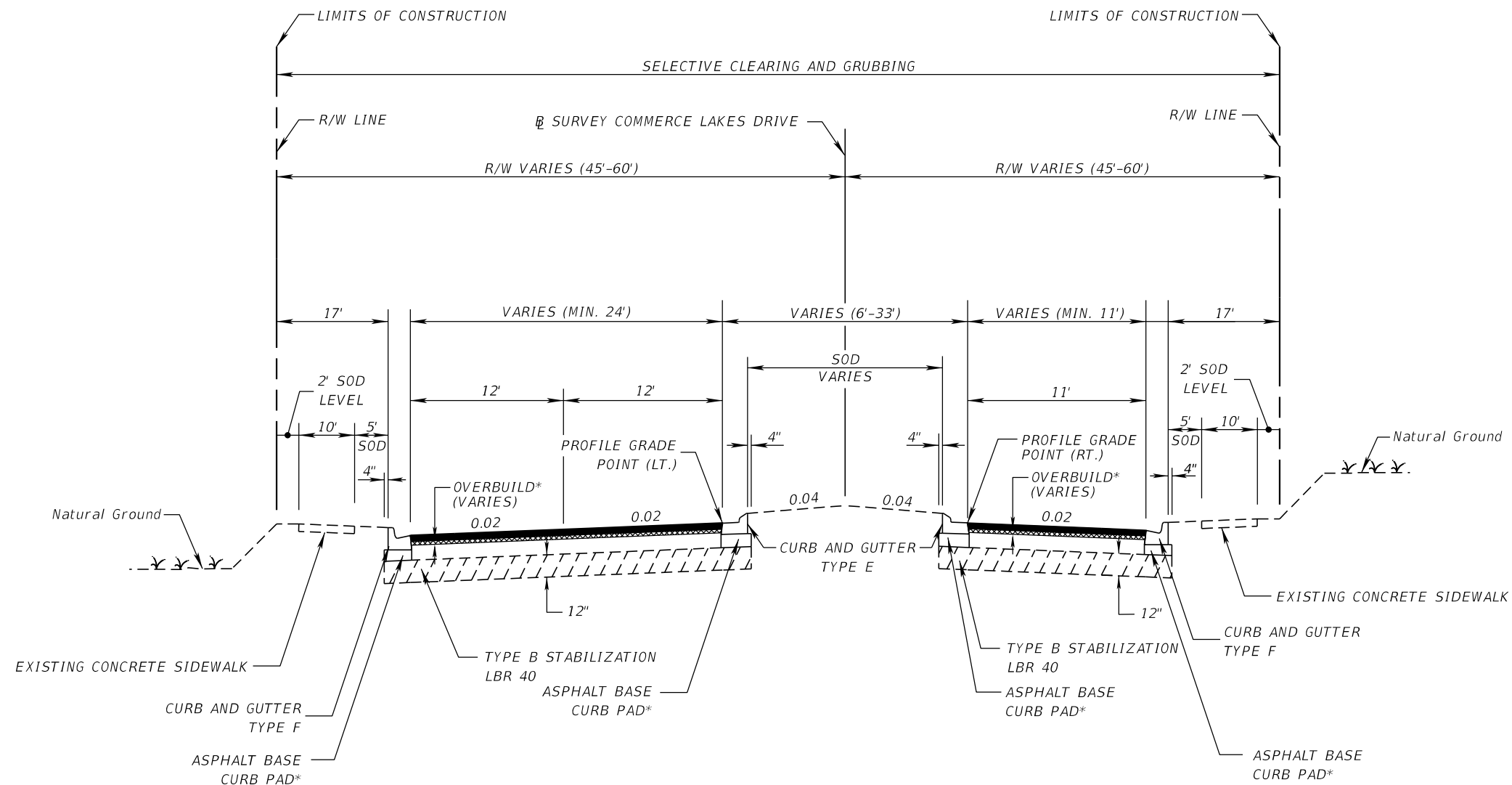
MILLING AND RESURFACING

MILL (1")
 OVERBUILD (SEE TABLE)*
 FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

* SEE TYPICAL SECTION DETAIL SHEET

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (1)			
								200671	4

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TYPICAL SECTION (2)
COMMERCE LAKES DR.
 STA. 198+39.38 TO STA. 208+89.09 (RT.)
 STA. 205+79.71 TO STA. 208+05.57 (LT.)
 STA. 213+00.00 TO STA. 215+20.46

TRAFFIC DATA

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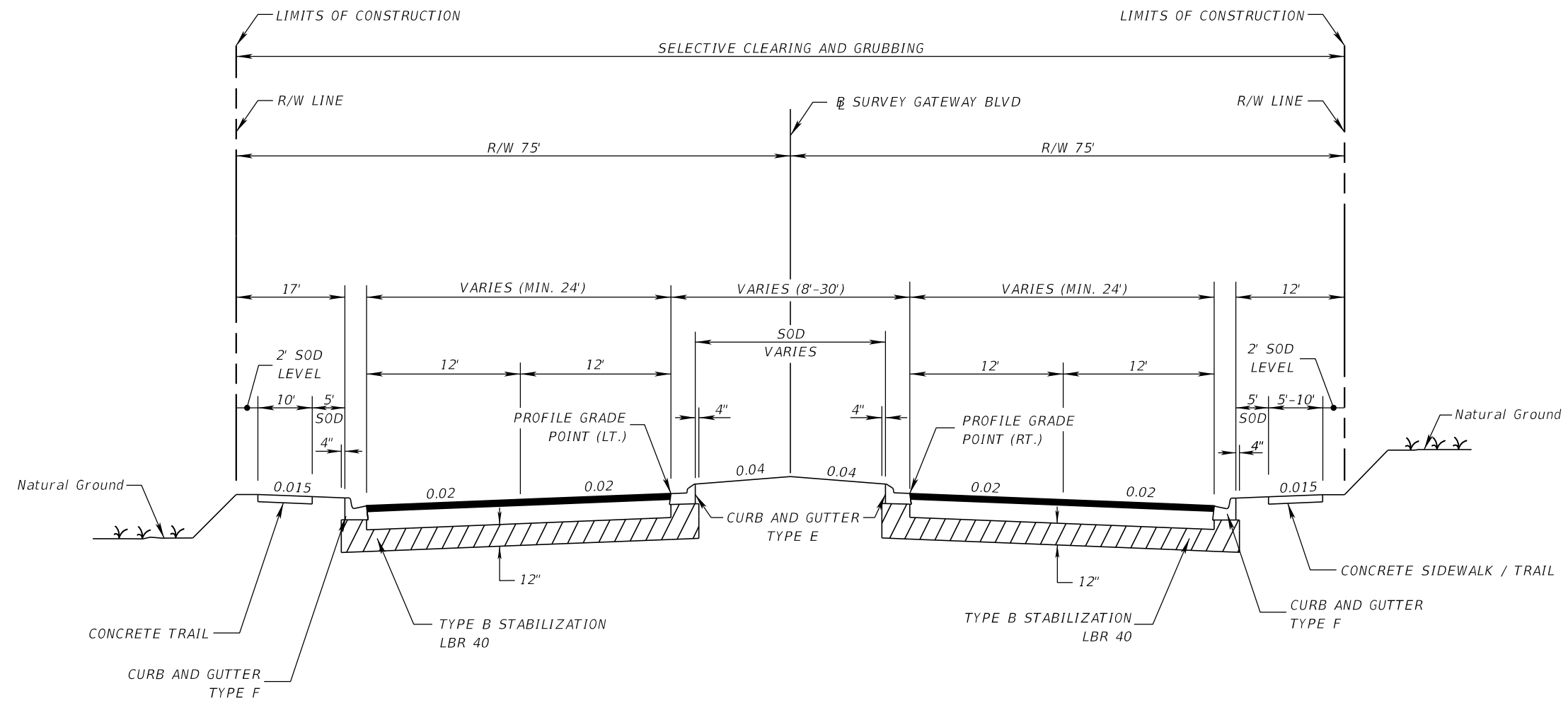
MILLING AND RESURFACING

MILL (1")
 OVERBUILD (SEE TABLE)*
 FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

* SEE TYPICAL SECTION DETAIL SHEET

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (2)			
								200671	5

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TYPICAL SECTION (3)
GATEWAY BLVD.

STA. 105+19.88 TO STA. 107+39.24 (RT.)
 STA. 105+46.40 TO STA. 107+39.24 (LT.)
 STA. 108+88.84 TO STA. 110+94.60 (RT.)
 STA. 108+88.84 TO STA. 111+50.00 (LT.)

NEW CONSTRUCTION

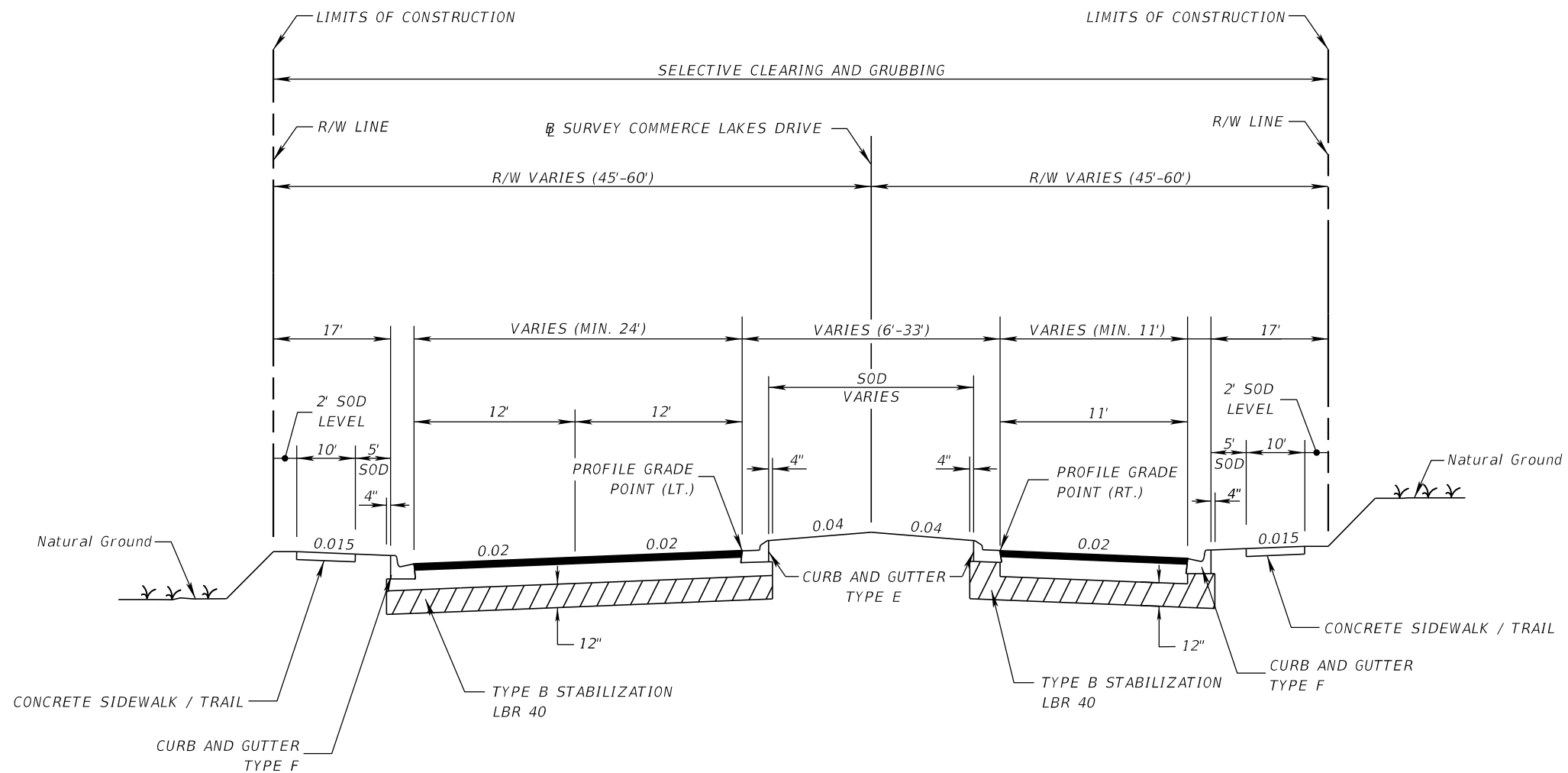
OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

TRAFFIC DATA

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DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (3)			
								200671	6

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TYPICAL SECTION (4)

COMMERCE LAKES DR.

STA. 208+05.57 TO STA. 210+14.05 (RT.)

STA. 208+89.09 TO STA. 210+14.05 (RT.)

STA. 211+57.03 TO STA. 213+00.00

NEW CONSTRUCTION

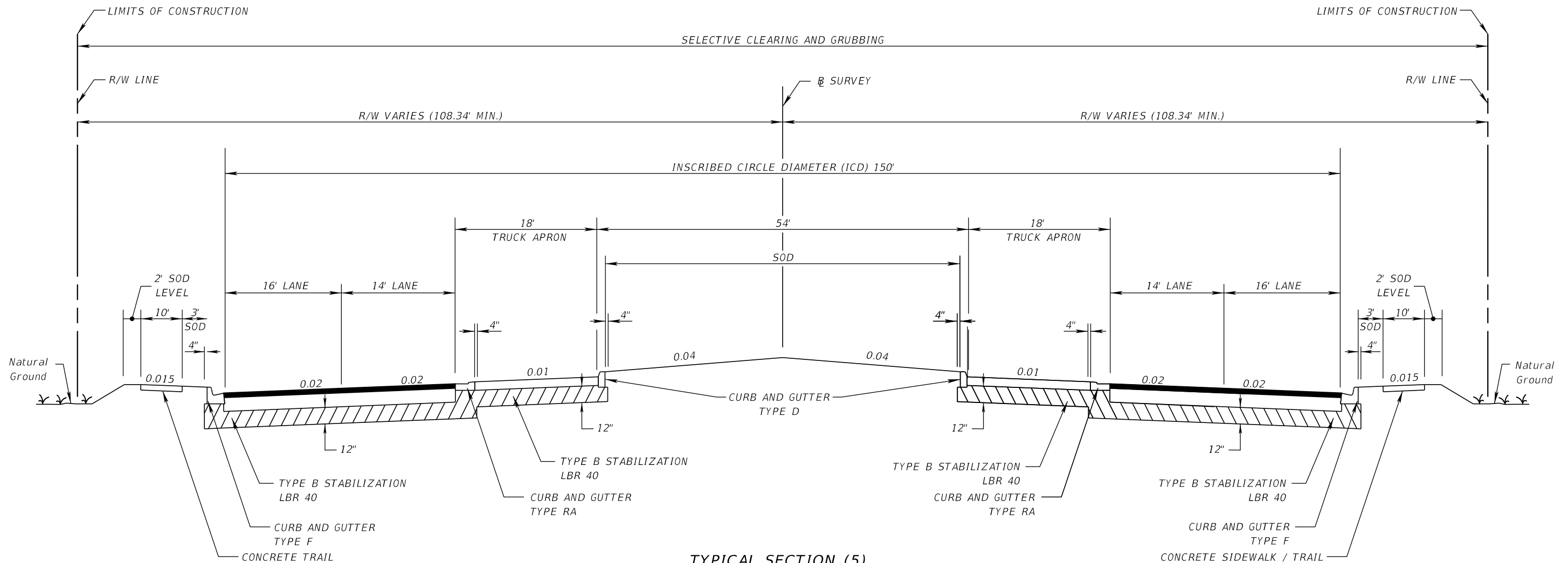
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REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (4)			
								200671	7

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TYPICAL SECTION (5)
GATEWAY BLVD. ROUNDABOUT
STA. 107+39.24 TO 108+88.84

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

TRUCK APRON

CONCRETE PAVEMENT (12")
 (AMS-STD-595-21105 RED)

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 23,100
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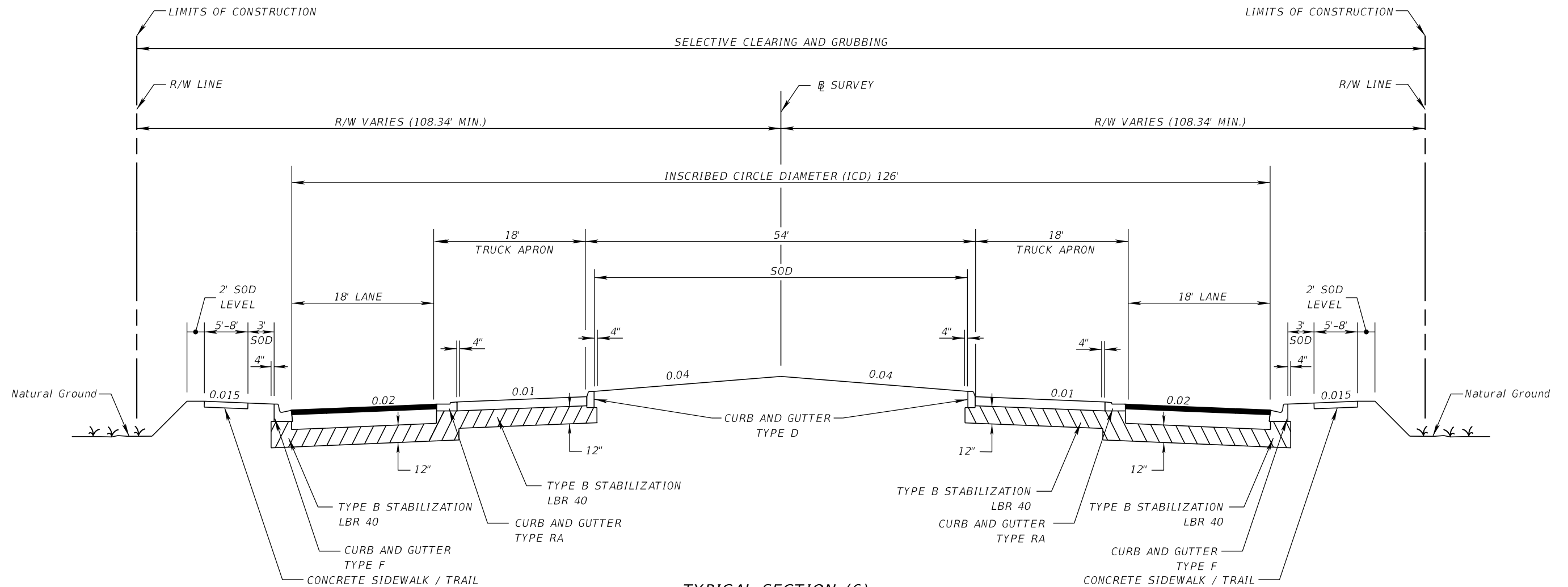
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
TYPICAL SECTION (5)		200671	8

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TYPICAL SECTION (6)
COMMERCE LAKES DR. ROUNDABOUT
STA. 210+14.05 TO 211+57.03

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

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CONCRETE PAVEMENT (12")
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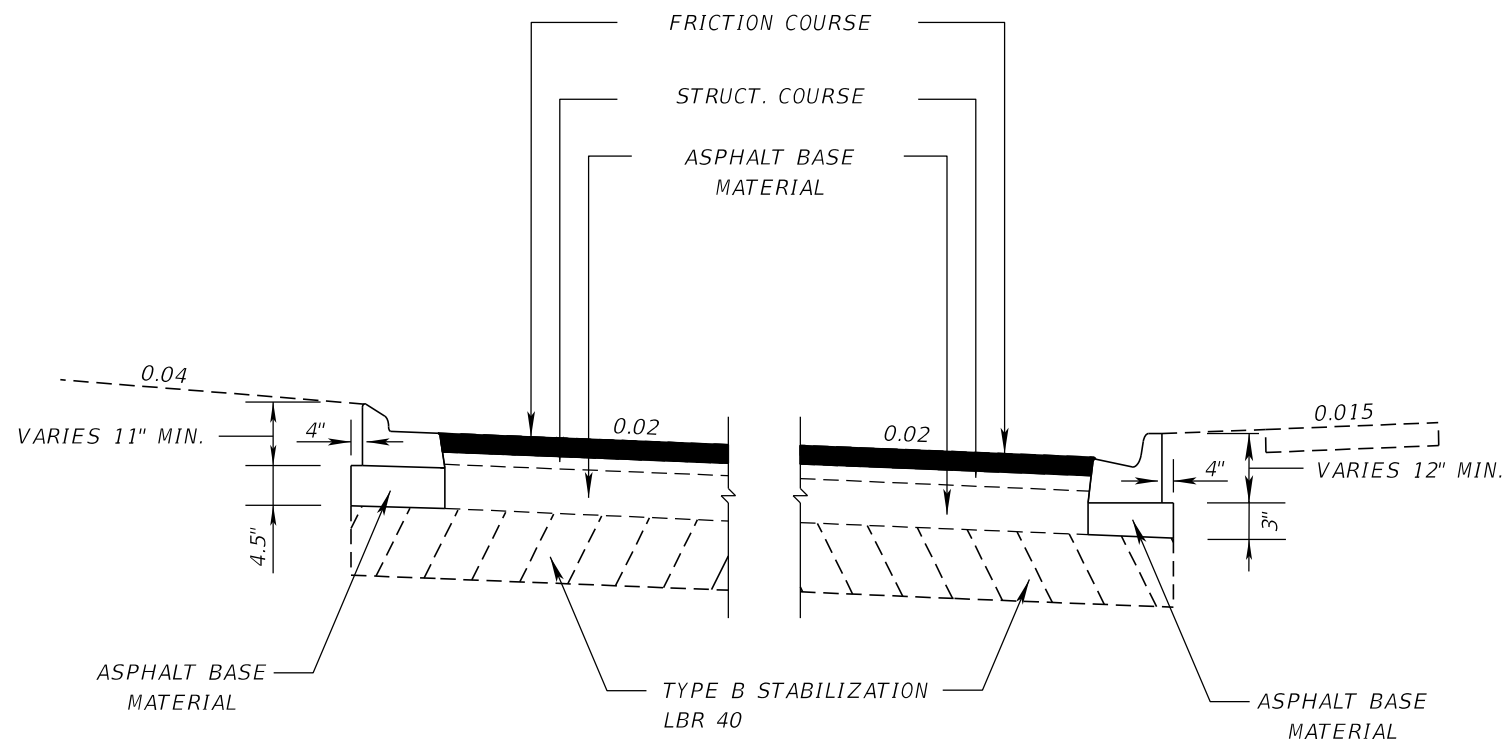
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DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
TYPICAL SECTION (6)		200671	9

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DETAIL OF ASPHALT BASE CURB PAD

NTS
OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)

TRAFFIC DATA

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 DESIGN HOUR T = 3.4%
 DESIGN SPEED = 35 MPH

SUMMARY OF ASPHALT OVERBUILD GATEWAY BLVD						
LOCATION		EXIST SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	END AREA OF OVERBUILD (SY)
STATION	LANE					
111+50	SB	0.010	0.008	0.36	22	1
112+00	SB	0.020	0.004	0.38	22	1
112+50	SB	0.008	0.015	0.16	22	1
113+00	SB	0.007	0.027	0.11	22	0
113+03	SB	0.011	0.020	0.11	22	0

SUMMARY OF ASPHALT OVERBUILD EAST COMMERCE LAKES DR						
LOCATION		EXIST CROSS SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	AREA OF OVERBUILD (SY)
STATION	LANE					
213+00	WB	0.011	0.020	1.19	11	1
213+50	WB	0.005	0.020	1.98	11	1
214+00	WB	0.012	0.020	1.06	11	0
214+50	WB	0.005	0.020	1.98	11	0
215+00	WB	-0.007	0.020	3.56	11	0
215+20	WB	0.005	0.020	1.98	11	0

SUMMARY OF ASPHALT OVERBUILD WEST COMMERCE LAKES DR						
LOCATION		EXIST CROSS SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	END AREA OF OVERBUILD (SY)
STATION	LANE					
207+00	WB	0.007	0.020	0.31	36	1
207+50	WB	0.011	0.020	0.27	34	1
208+00	WB	0.008	0.020	0.28	30	1
208+05.57	WB	0.006	0.020	0.23	24	0

SUMMARY OF ASPHALT OVERBUILD WEST COMMERCE LAKES DR						
LOCATION		EXIST CROSS SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	END AREA OF OVERBUILD (SY)
STATION	LANE					
205+79.71	EB	0.030	0.020	0.32	20	1
206+00	EB	0.012	0.020	1.06	11	1
206+50	EB	0.008	0.020	1.58	11	1
207+00	EB	0.007	0.020	1.72	11	0
207+50	EB	0.011	0.020	1.19	11	0
208+00	EB	0.008	0.020	1.58	11	1
208+50	EB	0.008	0.020	1.58	12	0
208+89.09	EB	0.006	0.020	1.85	11	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDABOUT)
TYPICAL SECTION DETAILS

CIP NO.	SHT. NO.
200671	10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM SEWER PIPE					CURB INLETS		DITCH BOTTOM INLETS		MH	GUTTER INLET	SOD	REMARKS
						OTHER		ROUND			P-5	P-6	C	F	TYPE 8	V		
						12"X18"	14"X23"	15"	18"	30"	<10	<10	<10	<10	<10	<10		
P	S-98	208+25	LT	INLET & PIPE	1					6	1							
P	S-99	208+25	LT	INLET & PIPE	1					8				1			CONCRETE COLLAR CONNECTION TO EXISTING PIPE	
P	S-100	209+00	RT	INLET & PIPE	1				74		1							
P	S-101	209+00	LT	INLET & PIPE	1					20	1							
P	S-102	212+97	RT	INLET & PIPE	1			4	20		1						CONCRETE COLLAR CONNECTION TO EXISTING PIPE	
P	S-103	212+97	LT	INLET & PIPE	1			4	38						1		CONCRETE COLLAR CONNECTION TO EXISTING PIPE	
P	S-199	106+75	RT	DBI & PIPE	1		22						1			10		
P	S-200	106+75	RT	DBI & PIPE	1		307							1				
P	S-201	106+80	LT	DBI & PIPE	1	31								1				
P	S-202	106+48	LT	DBI	1								1			10		
P	S-203	109+80	RT	INLET & PIPE	1		149							1				
SHEET TOTALS				PLAN QUANTITY		31	478	8	132	34	2	2	2	3	1	1	20	
				FINAL QUANTITY														

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
SUMMARY OF
DRAINAGE STRUCTURES

CIP NO. 200671
SHT. NO. 11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CURVE DATA BLCOMMERCE_5
 PI STA. = 206+09.64
 Δ = 24° 51' 59" (RT)
 D = 4° 30' 41"
 T = 280.00
 L = 551.18
 R = 1,270.00
 PC STA. = 203+29.64
 PT STA. = 208+80.82

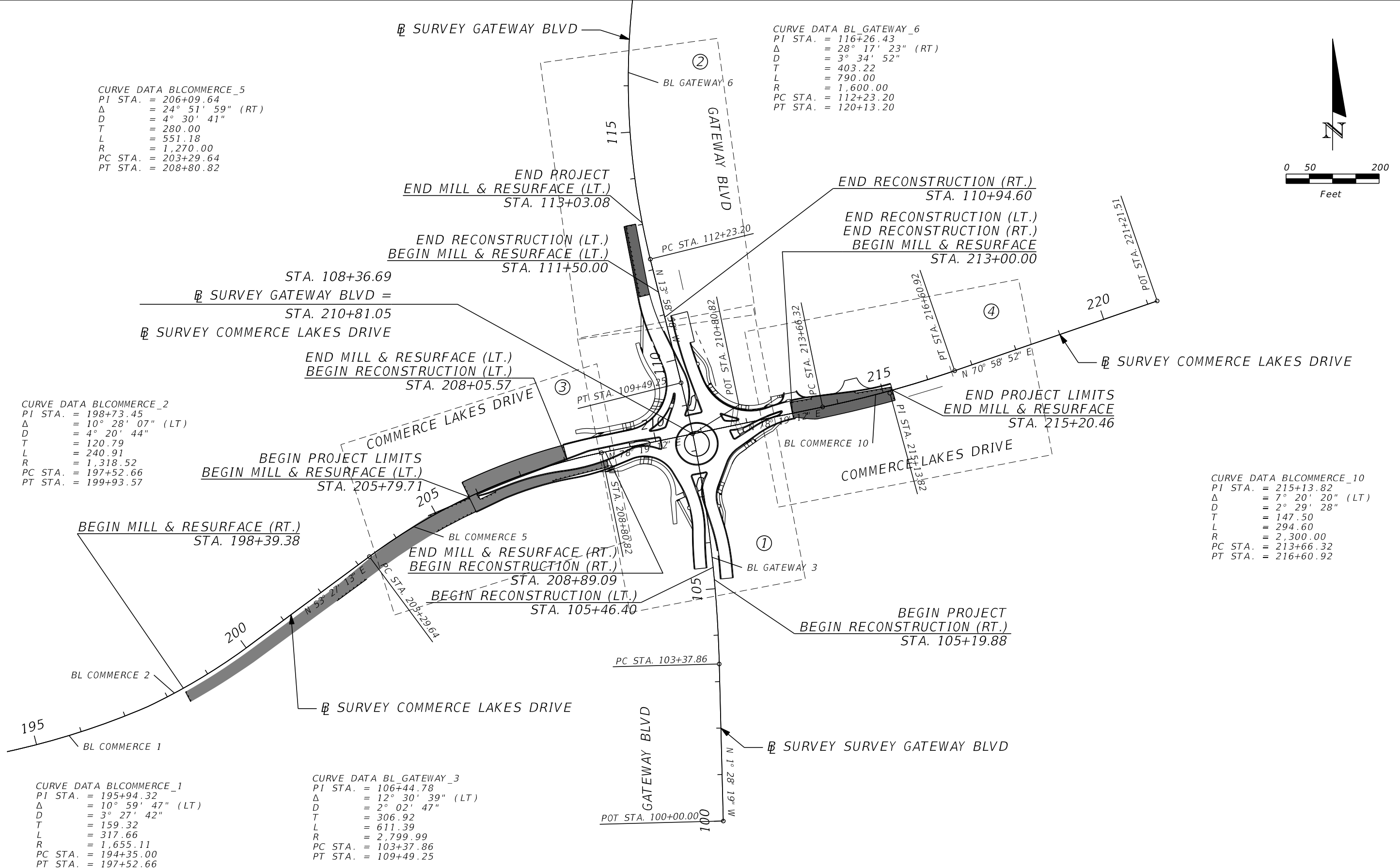
CURVE DATA BL_GATEWAY_6
 PI STA. = 116+26.43
 Δ = 28° 17' 23" (RT)
 D = 3° 34' 52"
 T = 403.22
 L = 790.00
 R = 1,600.00
 PC STA. = 112+23.20
 PT STA. = 120+13.20

CURVE DATA BLCOMMERCE_2
 PI STA. = 198+73.45
 Δ = 10° 28' 07" (LT)
 D = 4° 20' 44"
 T = 120.79
 L = 240.91
 R = 1,318.52
 PC STA. = 197+52.66
 PT STA. = 199+93.57

CURVE DATA BLCOMMERCE_10
 PI STA. = 215+13.82
 Δ = 7° 20' 20" (LT)
 D = 2° 29' 28"
 T = 147.50
 L = 294.60
 R = 2,300.00
 PC STA. = 213+66.32
 PT STA. = 216+60.92

CURVE DATA BLCOMMERCE_1
 PI STA. = 195+94.32
 Δ = 10° 59' 47" (LT)
 D = 3° 27' 42"
 T = 159.32
 L = 317.66
 R = 1,655.11
 PC STA. = 194+35.00
 PT STA. = 197+52.66

CURVE DATA BL_GATEWAY_3
 PI STA. = 106+44.78
 Δ = 12° 30' 39" (LT)
 D = 2° 02' 47"
 T = 306.92
 L = 611.39
 R = 2,799.99
 PC STA. = 103+37.86
 PT STA. = 109+49.25



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		CIP NO.	SHT. NO.
PROJECT LAYOUT		200671	12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

COORDINATE TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
122	809840.02'	737322.14'	28.36'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
130	809778.82'	737211.19'	27.04'	SET N-D "CARDNO T.P. LB 7975"
123	809894.71'	737559.52'	25.64'	SET N-D "CARDNO T.P. LB 7975"
124	809962.29'	737795.09'	25.48'	SET N-D "CARDNO T.P. LB 7975"
125	810003.95'	737813.64'	25.73'	SET N-D "CARDNO T.P. LB 7975"
126	809906.15'	737296.18'	28.48'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
127	810149.73'	737235.87'	26.45'	SET N-D "CARDNO T.P. LB 7975"
128	810392.61'	737183.96'	26.06'	SET N-D "CARDNO T.P. LB 7975"
129	809897.11'	737170.60'	27.13'	SET N-D "CARDNO T.P. LB 7975"
131	809783.81'	736952.21'	28.00'	SET 5/8" IR&C "CARDNO T.P. LB 7975"

COORDINATE TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
132	809651.32'	736731.37'	27.69'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
133	809731.90'	736671.33'	28.02'	SET N-D "CARDNO T.P. LB 7975"
134	809498.30'	737231.78'	26.88'	SET N-D "CARDNO T.P. LB 7975"
135	809611.40'	737291.19'	27.61'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
136	809440.05'	737353.83'	28.16'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
137	809177.49'	737384.98'	26.71'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
138	809163.19'	737243.28'	26.64'	SET N-D "CARDNO T.P. LB 7975"
139	810579.94'	737116.84'	27.27'	SET N-D "CARDNO T.P. LB 7975"
140	810428.77'	737048.91'	26.29'	SET N-D "CARDNO T.P. LB 7975"
141	810172.10'	737103.05'	26.67'	SET N-D "CARDNO T.P. LB 7975"

ABBREVIATIONS:

- AC. = ACRE
A.C. = AIR CONDITIONER
A.K.A. = ALSO KNOWN AS
ALUM. = ALUMINUM
APPR. = APPROXIMATE
ASPH. = ASPHALT
AVE. = AVENUE
BLDG. = BUILDING
BLVD. = BOULEVARD
BM = BENCHMARK
BOC = BACK OF CURB
BOW = BACK OF WALK
BSM = BUREAU OF SURVEYING AND MAPPING
(C) = CALCULATED
CATV = CABLE TELEVISION
CB = CATCH BASIN
CBS = CONCRETE BLOCK STRUCTURE
C.C.R. = CERTIFIED CORNER RECORD
CDB = CHORD BEARING
CH = CHORD
CLF = CHAIN LINK FENCE
CM = CONCRETE MONUMENT
CMP = CORRUGATED METAL PIPE
C.O. = CLEANOUT
CONC. = CONCRETE
CONT. = CONTROL
CPP = CORRUGATED PLASTIC PIPE
COR. = CORNER
CORP. = CORPORATION
C.P. = CONTROL POINT
C.R. = COUNTY ROAD
CT. = COURT
C.U.E. = COUNTY UTILITY EASEMENT
(D) = DEED
D.E. = DRAINAGE EASEMENT
(DESC.) = DESCRIPTION
DH = DRILL HOLE
DIA. = DIAMETER
DR. = DRIVE
DWG. = DRAWING
EL. = ELEVATION
ELEC. = ELECTRIC
EOP = EDGE OF PAVEMENT
EOW = EDGE OF WATER
ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT. = EASEMENT
EXIST. = EXISTING
(F) = FIELD
FDEP = FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION
FEMA = FEDERAL EMERGENCY MANAGEMENT AGENCY
F.F. = FINISHED FLOOR
FND = FOUND
FPL OR FP&L = FLORIDA POWER & LIGHT
F.S. = FLORIDA STATUTES
FT. = FOOT / FEET
GLO = GENERAL LAND OFFICE
GPS = GLOBAL POSITIONING SYSTEM
I.D. = IDENTIFICATION
I.D.D. = IONA DRAINAGE DISTRICT
I.N. = INSTRUMENT NUMBER
INC. = INCORPORATED
INST. = INSTRUMENT
INV. = INVERT
I.P. = IRON PIPE
IR = IRON ROD (5/8" DIA. U.O.N.)
IRC OR IR&C = IRON ROD & CAP
IRR. = IRRIGATION
L = LENGTH
LABINS = LAND BOUNDARY INFORMATION SYSTEM (STATE OF FLORIDA)
LAT = LATITUDE
LB = LICENSED BUSINESS
LN. = LANE
LONG = LONGITUDE
LS = LICENSED SURVEYOR
LT = LEFT
(M) = MEASURED
MAG = MAGNETIC
ME = MITERED END
- MH = MANHOLE
MHWL = MEAN HIGH WATER LINE
MISC. = MISCELLANEOUS
MON = MONUMENT
NAD = NORTH AMERICAN DATUM
N.A.V.D. = NORTH AMERICAN VERTICAL DATUM
NGS = NATIONAL GEODETIC SURVEY
N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM (1929)
No. = NUMBER
N.T.S. = NOT TO SCALE
N.T.T. = NAIL & TIN TAB
O/H = OVERHANG
O.H.W.L. = ORDINARY HIGH WATER LINE
O.H.W.M. = ORDINARY HIGH WATER MARK
O.R. = OFFICIAL RECORD BOOK / PAGE
(P) = PLAT
PB = PLAT BOOK
P.C. = POINT OF CURVATURE
PCP = PERMANENT CONTROL POINT
PG (S) = PAGE(S)
P.I. = POINT OF INTERSECTION
PKN&D = PARKER-KALON NAIL & DISK
PKWY. = PARKWAY
PL = PROPERTY LINE
PLS = PROFESSIONAL LAND SURVEYOR
P.O.B. = POINT OF BEGINNING
P.O.C. = POINT OF COMMENCEMENT
P.O.T. = POINT OF TERMINUS
PP = POWER POLE
P.R.M. = PERMANENT REFERENCE MONUMENT
PROP. = PROPERTY
PSM = PROFESSIONAL SURVEYOR AND MAPPER
PT. = POINT
P.T. = POINT OF TANGENCY
P.U.E. = PUBLIC UTILITY EASEMENT
PVC = POLY VINYL CHLORIDE
R = RADIUS OR RIGHT
(R) = RECORD
RCP = REINFORCED CONCRETE PIPE
RGE = RANGE
RLS = REGISTERED LAND SURVEYOR
R.R. = RAILROAD
RT = RIGHT
RTA = RIGHT ANGLE
R/W = RIGHT-OF-WAY
SEC. = SECTION
S.F. = SQUARE FEET
SFWMD = SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SHT. = SHEET
S.R. = STATE ROAD
S.S. = SANITARY SEWER
STA. = STATION
ST. = STREET
SWFWMD = SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
T = TANGENT
TEL = TELEPHONE
TIIF = TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA
TIITF = BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA
TOB = TOP OF BANK
TOE = TOE OF SLOPE
T.P. = TRAVERSE POINT
TRANS. = TRANSITION
TWP = TOWNSHIP
TYP = TYPICAL
U.E. = UTILITY EASEMENT
U.O.N. = UNLESS OTHERWISE NOTED
USGS = UNITED STATES GEOLOGICAL SURVEY
w/ = WITH
Y.D. = YARD DRAIN
Δ = DELTA ANGLE
± = MORE OR LESS
= NUMBER
** = STAMPING OF CAP OR DISK

LEGEND:

- | | | | | | | | |
|--|-----------------------------|--|------------------------------|--|--------------------------------|--|---|
| | AIR RELEASE VALVE | | FORCE MAIN AIR RELEASE VALVE | | SPRINKLER | | FOUND CONCRETE MONUMENT |
| | AUTO VACUUME | | GAS PIPELINE MARKER | | STEEL POST | | FOUND DRILL HOLE |
| | BACKFLOW PREVENTER | | GAS VALVE | | TELEPHONE BOX OR VAULT | | FOUND IRON ROD |
| | BACTERIAL SAMPLE POINT | | GATE ACTUATOR BOX | | TELEPHONE CANISTER | | FOUND IRON ROD & CAP |
| | BENCH MARK | | GROUND LIGHT | | TELEPHONE (BURIED) MARKER POST | | FOUND NAIL |
| | BOLLARD | | GREASE MANHOLE | | TELEPHONE MANHOLE | | FOUND NAIL & DISK |
| | CABLE RISER | | GUARD RAIL | | TELEPHONE RISER | | FOUND PARKER KALON NAIL |
| | CABLE TV BOX | | GUY POLE | | TOE OF SLOPE | | FOUND PARKER KALON NAIL & DISK |
| | CATCH BASIN | | GUY WIRE | | TOP OF BANK | | SET CONCRETE MONUMENT |
| | CENTERLINE | | HANDI-CAP PARKING | | TRAFFIC SIGNAL BOX | | SET DRILL HOLE |
| | CLEANOUT | | HOSE BIB | | TRAFFIC SIGNAL POLE | | SET 5/8" IRON ROD & CAP "CARDNO LB 7975" U.O.N. |
| | COORDINATE NUMBER | | IRRIGATION BOX | | TRAFFIC SIGNAL LIGHT | | SET MAG NAIL & DISK "CARDNO LB 7975" U.O.N. |
| | CONCRETE POWER POLE | | IRRIGATION VALVE | | UNDERGROUND UTILITIES | | CONCRETE |
| | CONCRETE POST | | LIGHT POLE | | UNKNOWN UTILITY VAULT | | |
| | DRAINAGE MANHOLE | | MAIL BOX | | UNKNOWN UTILITY MANHOLE | | |
| | ELECTRICAL BOX | | MITERED END | | WATER MAIN | | |
| | ELECTRIC OUTLET | | WELL | | WATER LINE FLAG | | |
| | ELECTRIC MANHOLE | | OVERHEAD POWER LINE | | WATER METER | | |
| | ELECTRIC METER | | OVERHEAD TELEPHONE LINE | | WATER VALVE | | |
| | ELECTRIC TRANSFORMER W/ PAD | | PARKING PAY METER | | WOOD POST | | |
| | ELECTRIC LINE | | POWER POLE | | WOOD SUPPORT POLE | | |
| | ELECTRIC FLAG | | POWER POLE W/RISER | | YARD DRAIN | | |
| | EXISTING ELEVATION | | PROPANE VALVE | | CROSS WALK SIGNAL POLE | | |
| | FENCE - BARBED WIRE | | RECLAIM WATER LINE | | CROSS WALK BUTTON POLE | | |
| | FENCE - CHAIN LINK / U.O.N. | | RECLAIM WATER LINE FLAG | | BUSH | | |
| | FENCE - WOOD / U.O.N. | | SEWER LINE FLAG | | CABBAGE PALM | | |
| | FIBER OPTIC MARKER / POST | | SANITARY SEWER LINE | | OAK TREE | | |
| | FIBER OPTIC BOX | | SEWER MANHOLE | | PALM TREE | | |
| | FIRE HYDRANT | | SEWER VALVE | | PINE TREE | | |
| | FIRE VALVE | | SECURITY SENSOR | | SHADE TREE (VARIOUS TYPE) | | |
| | FLAG POLE | | SIGN SINGLE POST | | | | |
| | FORCE MAIN | | SIGN DOUBLE POST | | | | |

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)


PROJECT CONTROL

CIP NO.	SHT. NO.
200671	13

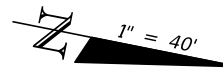
PROJECT NOTES:

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). COORDINATE SYSTEM FOR THIS PROJECT SHALL BE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE; NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT).
2. THE COST OF SAW CUTTING SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED.
3. ALL LANES MUST BE ABLE TO BE RE-OPENED IN 12 HOURS FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER EMERGENCY EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
4. PAVEMENT MARKINGS AND SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND FDOT STANDARD PLANS, INDEX 711-001
5. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD
6. CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND LCDOT PRIOR TO CONSTRUCTION.

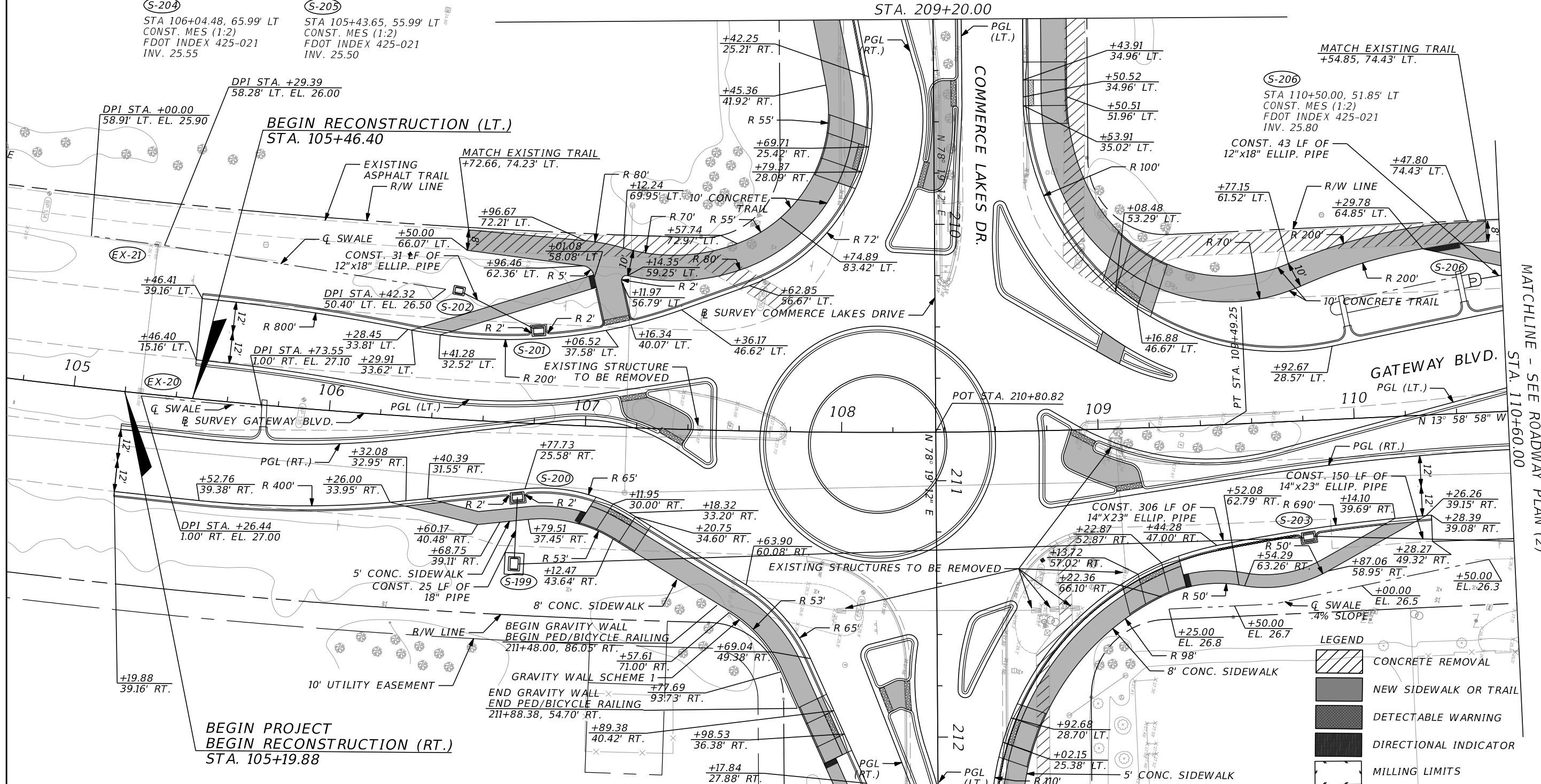
UTILITY/AGENCY OWNERS:	COMPANY CONTACT	TELEPHONE NUMBERS
CENTURYLINK	EZEKIEL REID	239-336-2030
COMCAST CABLE	STEVE HUTSON	754-221-1254
FLORIDA POWER AND LIGHT	JUAN CRUZ	941-423-4842
GATEWAY SERVICES DISTRICT	CHRIS SHOEMAKER	239-561-1313
LEE COUNTY UTILITIES	ALLAN MAKAU	239-533-8598
TECO PEOPLES GAS (FT. MYERS)	ANTHONY BAUBLITZ	941-342-4025
7. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE PREPARED IN ACCORDANCE WITH SECTION 104 OF THE FDOT SPECIFICATIONS, THE NOTICE OF INTENT SHALL BE PREPARED FOR THE NPDES STORMWATER PERMIT AND SUBMITTED TO OBTAIN PERMIT COVERAGE. FULL COMPENSATION FOR ALL ITEMS SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC.
8. IN ANY EXCAVATION WORK IT SHOULD BE NOTED THAT THE WATER TABLE IS HIGH IN THIS AREA.
9. ALL CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS. ALL REQUIRED INSPECTIONS SHALL BE PERFORMED AS REQUIRED BY THESE STANDARDS. CONTRACTOR SHALL PROVIDE BOND AND PERMIT FEE AS REQUIRED.
10. CONCRETE SIDEWALK/TRAIL: USE CLASS 1, 3000 PSI (MINIMUM) CONCRETE. APPLY BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF ¼ OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 50' ON CENTER.
11. ALL MATERIALS AND WORKMANSHIP UNDER THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY DEVELOPMENT STANDARDS, LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019-20, UNLESS OTHERWISE NOTED.
12. ALL PERVIOUS AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE GRASSED, SODDED, MULCHED OR LANDSCAPED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN IF INCLUDED WITH THIS PLAN SET OR PROVIDED SEPARATELY AS PART OF CONTRACT. EXISTING SOD IS MOSTLY SAINT AUGUSTINE.
13. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND/OR LCDOT.
14. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.
15. WATER TABLE SHOWN ON CROSS SECTIONS MAY DIFFER FROM SEASONAL HIGH WATER TABLE (SHWT).
16. APPROPRIATE TURBIDITY CONTROL DEVICES SUCH AS SILT FENCES WILL BE UTILIZED DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NPDES NOTICE OF INTENT, NOTICE OF TERMINATION, AND LEE COUNTY RIGHT-OF-WAY PERMITS. NOI MUST BE FILED WITH FDEP IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORMWATER POLLUTION PREVENTION PLAN.
17. ALL EXISTING PIPES THAT ARE TO REMAIN IN SERVICE WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
18. ALL EXISTING DRAINAGE STRUCTURES ARE TO REMAIN UNLESS NOTED ON THE ROADWAY PLANS.
19. CONTRACTOR SHALL MARK THE PROPERTY LINE LOCATION AND NOTIFY BUSINESS/HOME OWNERS TO REMOVE ANY EXISTING LANDSCAPING (I.E. SOD, BUSHES, TREES, ETC.) AND/OR SPRINKLER PIPE OR SPRINKLER HEADS AND FENCING THAT IS LOCATED WITHIN THE EXISTING PUBLIC RIGHT-OF-WAY OR EASEMENT AT LEAST ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
20. NOTIFY RESIDENCES AND BUSINESSES AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTION IN SERVICE, INCLUDING DRIVEWAY CUTS.
21. ALL CONCRETE SIDEWALK, TRAIL AND DRIVEWAYS TO BE 6" THICK.
22. TREES TO BE REMOVED ARE NOTED ON THE EROSION CONTROL PLANS.
23. ALL STORM PIPES LOCATED WITHIN THE PROJECT LIMITS ARE TO BE DESILTED PRIOR TO COMPLETION OF PROJECT CONSTRUCTION.

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDAABOUT)	CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NOTES	200671	14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE - SEE ROADWAY PLAN (3)
STA. 209+20.00



MATCHLINE - SEE ROADWAY PLAN (4)
STA. 212+20.00

S-204
STA 106+04.48, 65.99' LT
CONST. MES (1:2)
FDOT INDEX 425-021
INV. 25.55

S-205
STA 105+43.65, 55.99' LT
CONST. MES (1:2)
FDOT INDEX 425-021
INV. 25.50

S-206
STA 110+50.00, 51.85' LT
CONST. MES (1:2)
FDOT INDEX 425-021
INV. 25.80

LEGEND

	CONCRETE REMOVAL
	NEW SIDEWALK OR TRAIL
	DETECTABLE WARNING
	DIRECTIONAL INDICATOR
	MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBABOUT)
ROADWAY PLAN (1)
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	15

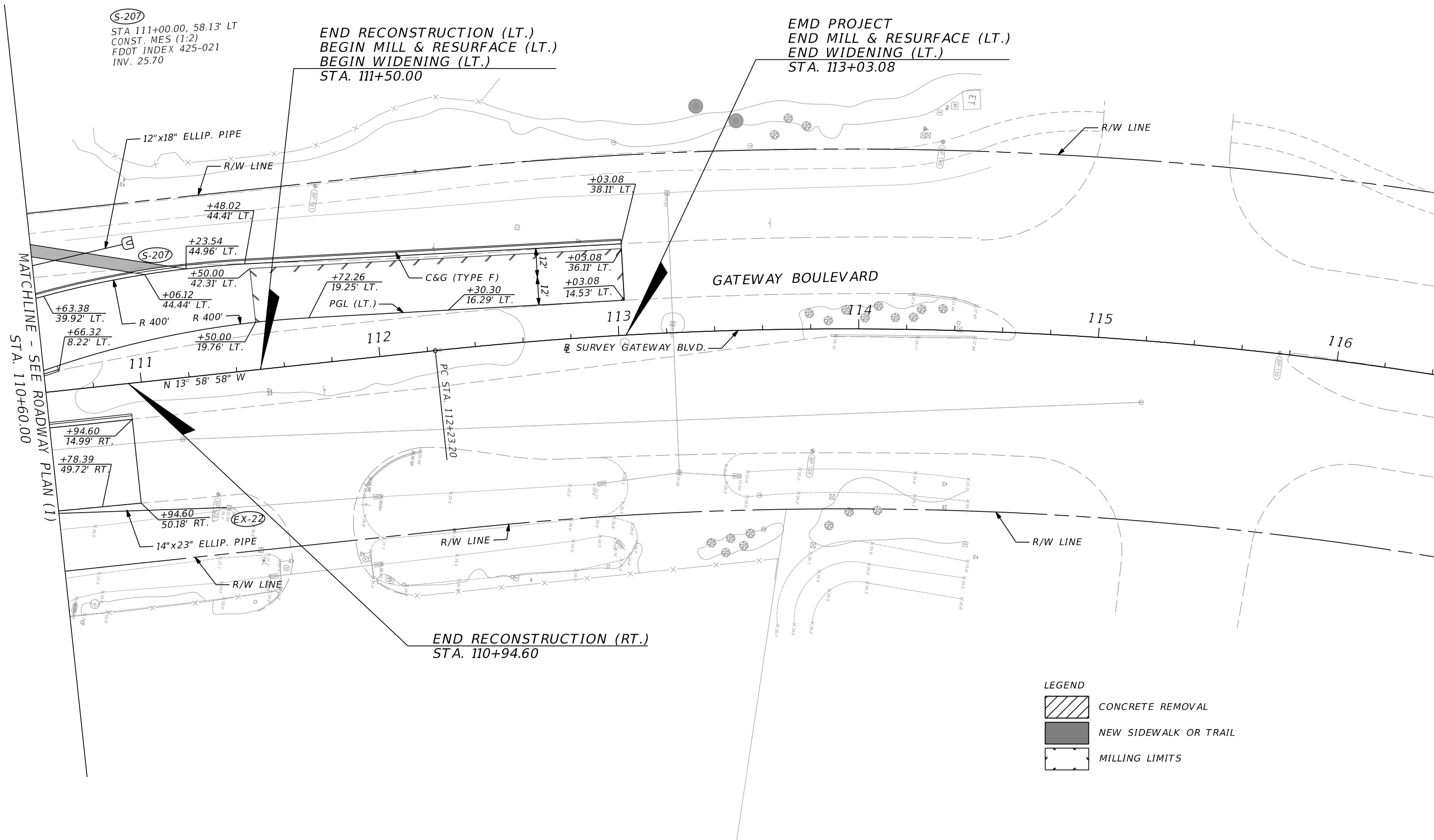
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

N
1" = 40'

(S-207)
STA 111+00.00, 58.13' LT
CONST. MES (1:2)
FDOT INDEX 425-021
INV. 25.70

END RECONSTRUCTION (LT.)
BEGIN MILL & RESURFACE (LT.)
BEGIN WIDENING (LT.)
STA. 111+50.00

EMD PROJECT
END MILL & RESURFACE (LT.)
END WIDENING (LT.)
STA. 113+03.08



MATCHLINE - SEE ROADWAY PLAN (1)
STA. 110+60.00

LEGEND

	CONCRETE REMOVAL
	NEW SIDEWALK OR TRAIL
	MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

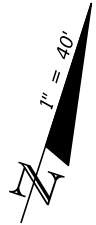
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PLAN (2)
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**BEGIN PROJECT LIMITS
BEGIN MILL & RESURFACE (LT.)
STA. 205+79.71**

**END MILL & RESURFACE (LT.)
BEGIN RECONSTRUCTION (LT.)
STA. 208+05.57**

**END WIDENING (RT.)
STA. 206+36.82**

EXISTING STRUCTURE TO BE REMOVED

REMOVE EXISTING PIPE

MATCH EXISTING TRAIL

R/W LINE

CONST. 74 LF OF 30" PIPE
C&G (TYPE F)

10' CONCRETE TRAIL

+92.22
41.95' LT.
+82.09
42.51' LT.

+69.36
55.43' LT.
+45.22
59.31' LT.

R 81'
+92.22
51.95' LT.

EXIST. 30" PIPE
R 1304.6'

COMMERCE LAKES DRIVE

+79.38
34.91' LT.

+00.45
0.96' RT.

BEGIN PGL (LT.)
206+88.29, 0.96' RT.
R 1975'

+09.70
0.63' RT.

C&G (TYPE E)

PGL (LT.)

+61.43
34.94' LT.

+76.03
34.94' LT.

CONST. 6 LF OF 30" PIPE

+62.22
10.96' LT.

+48.47
10.09' LT.

+79.34
36.39' RT.

+91.96
19.98' RT.

+64.64
33.00' RT.

+64.64
35.00' RT.

+09.74
38.08' RT.

+60.67
38.29' RT.

+89.09
32.95' RT.

EXISTING STRUCTURE TO BE REMOVED

+98.15
40.53' RT.

+15.49
47.48' RT.

☒ SURVEY COMMERCE LAKES DRIVE

+83.03
4.73' LT.

205

BEGIN PGL (RT.)
205+79.74, 2.60' RT.

206

+99.37
7.10' RT.

+36.82
11.23' RT.

+70.75
11.27' RT.

+36.82
13.22' RT.

R 500'

PGL (RT.)

R 400'

R 416'

R 104'

204

☒ SURVEY COMMERCE LAKES DRIVE

PGL (RT.)

+49.40
32.57' RT.

R 700'

C&G (TYPE F)

R 400'

R 416'

R 104'

BEGIN TYPE F CURB
+80.06, 34.87' RT

**BEGIN WIDENING (RT.)
STA. 205+99.37**

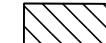
**BEGIN WIDENING (RT.)
STA. 207+64.64**

**END MILL & RESURFACE (RT.)
END WIDENING (RT.)
BEGIN RECONSTRUCTION (RT.)
STA. 208+89.09**

MATCHLINE - SEE ROADWAY PLAN (1)
STA. 209+20.00

**BEGIN MILL & RESURFACE (RT.)
STA. 198+39.38**

LEGEND



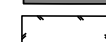
CONCRETE REMOVAL



DIRECTIONAL INDICATOR



NEW SIDEWALK OR TRAIL



MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
**ROADWAY PLAN (3)
(COMMERCE LAKES DRIVE)**

CIP NO.	SHT. NO.
200671	17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE - SEE ROADWAY PLAN (1)
STA. 212+20.00

END PROJECT LIMITS
END MILL & RESURFACE
END WIDENING
STA. 215+20.46

BEGIN WIDENING (LT.)
STA. 214+41.70

END WIDENING (LT.)
STA. 213+46.29

END RECONSTRUCTION (RT.)
END RECONSTRUCTION (LT.)
BEGIN MILL & RESURFACE
BEGIN WIDENING (LT.)
STA. 213+00.00

LEGEND

	CONCRETE REMOVAL
	DIRECTIONAL INDICATOR
	NEW SIDEWALK OR TRAIL
	MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

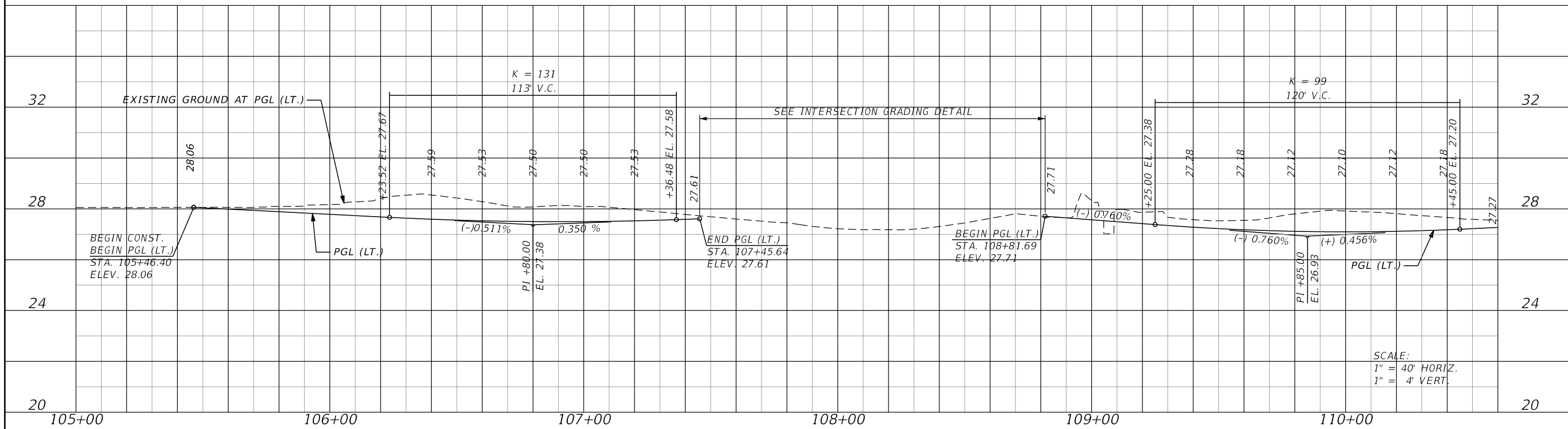


GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PLAN (4)
(COMMERCE LAKES DRIVE)

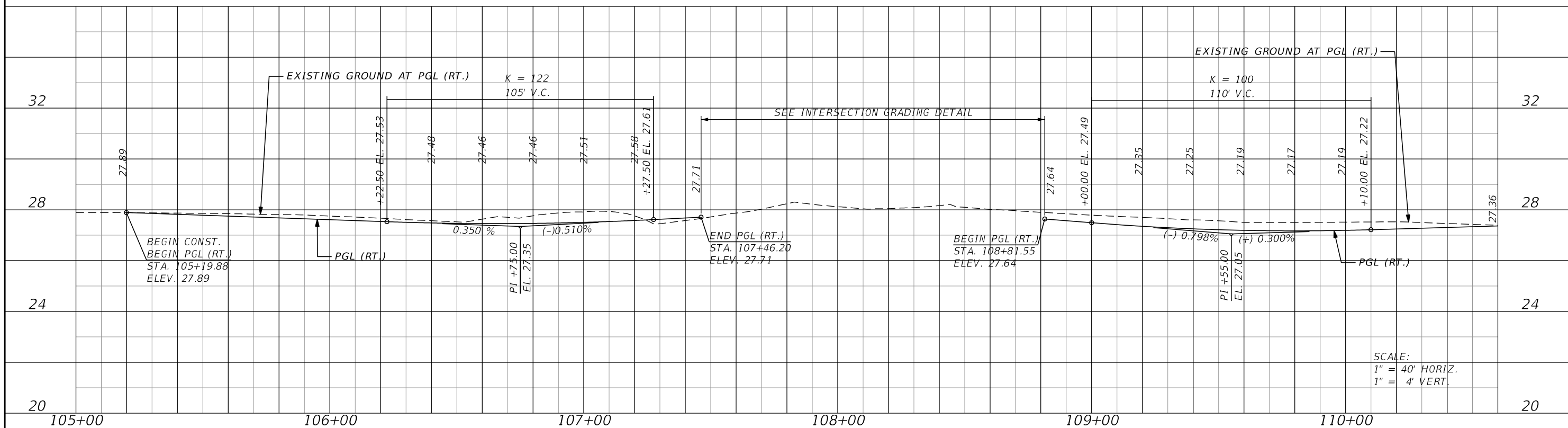
CIP NO.	SHT. NO.
200671	18

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LEFT PROFILE GRADE LINE



RIGHT PROFILE GRADE LINE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915

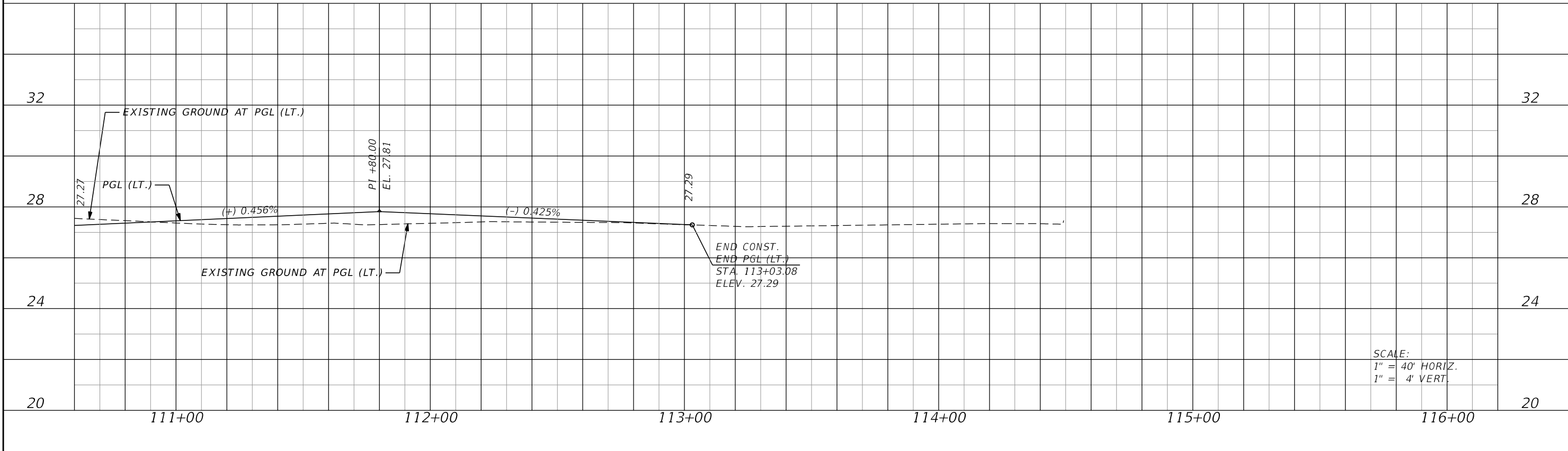


GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PROFILE (1)
 (GATEWAY BOULEVARD)

CIP NO. 200671
 SHT. NO. 19

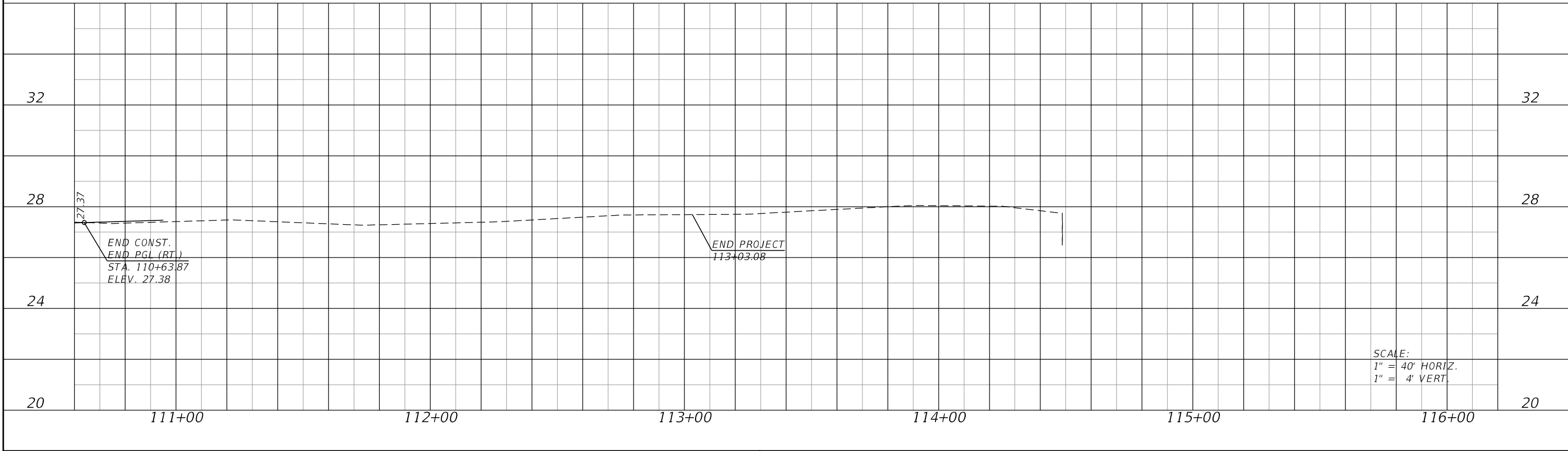
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEFT PROFILE GRADE LINE



SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

RIGHT PROFILE GRADE LINE



SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

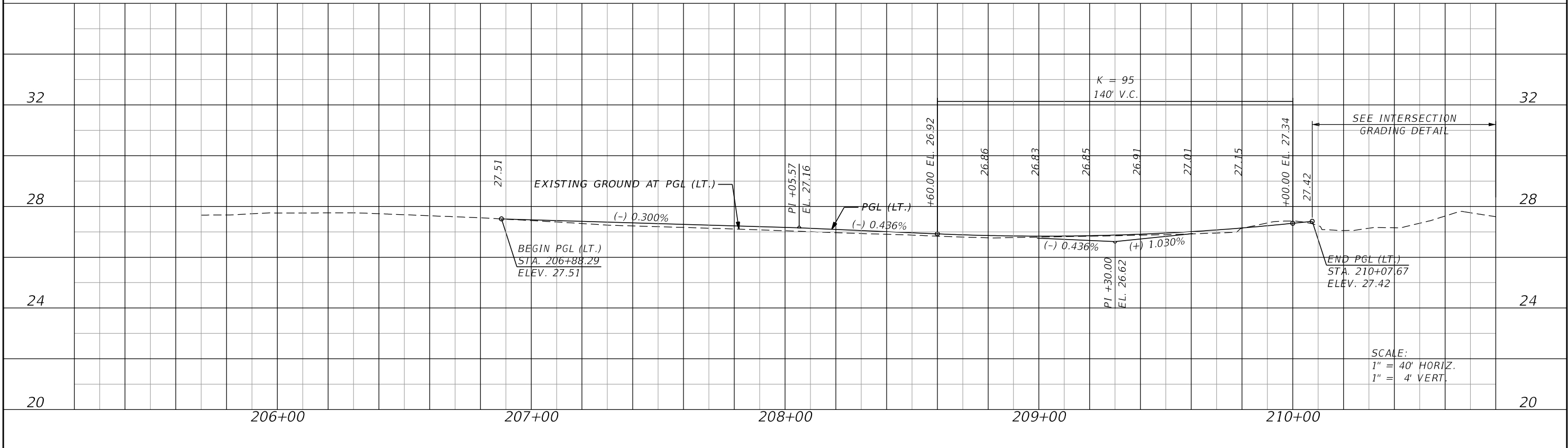


GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PROFILE (2)
(GATEWAY BOULEVARD)

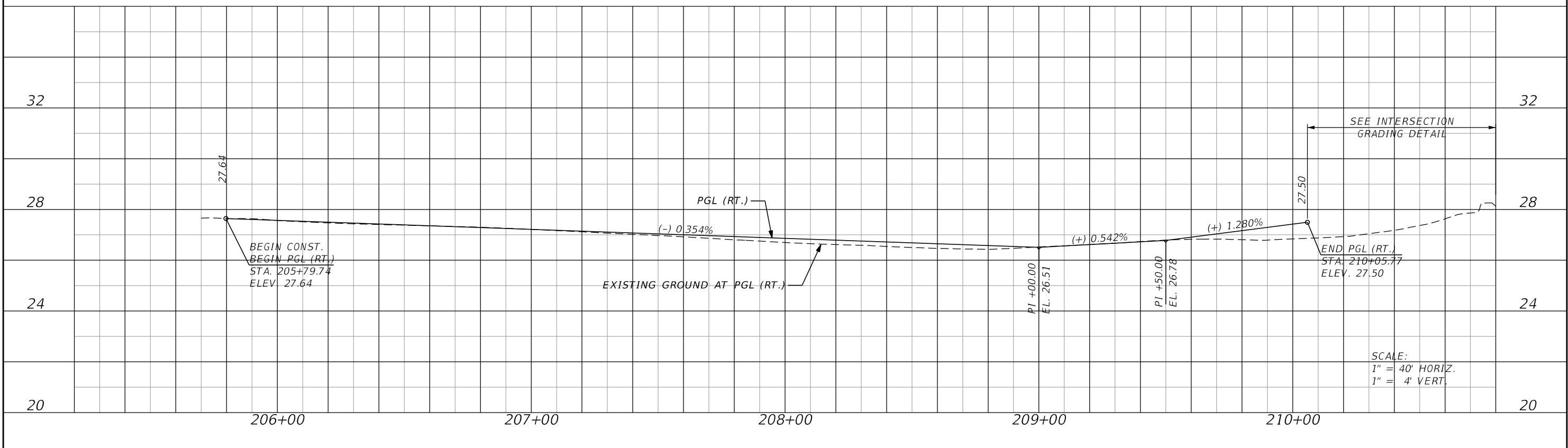
CIP NO.	SHT. NO.
200671	20

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LEFT PROFILE GRADE LINE



RIGHT PROFILE GRADE LINE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915

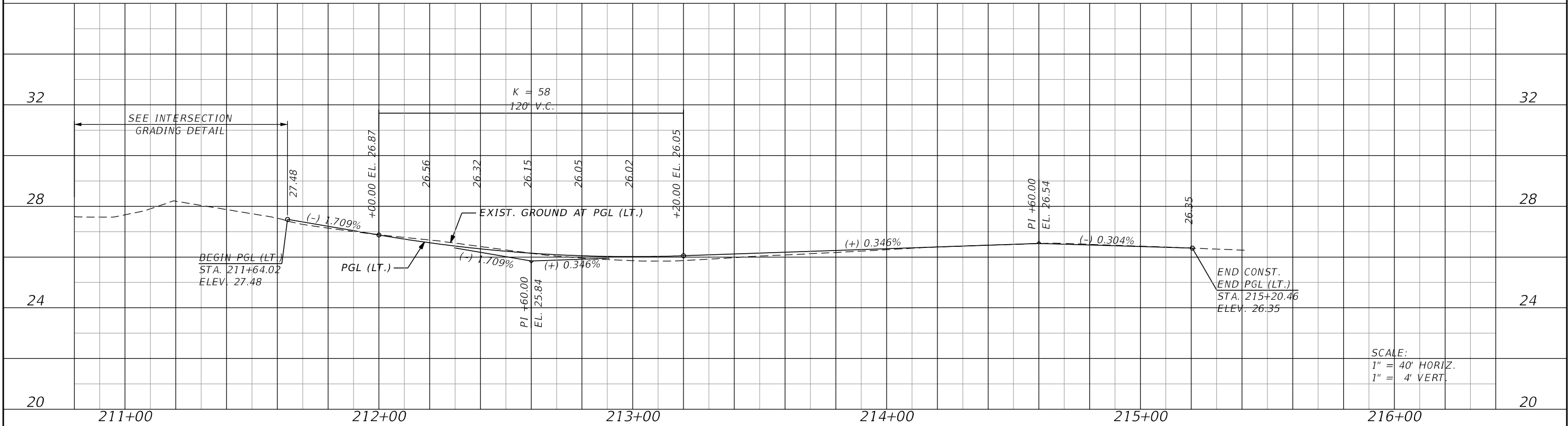


GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PROFILE (3)
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	21

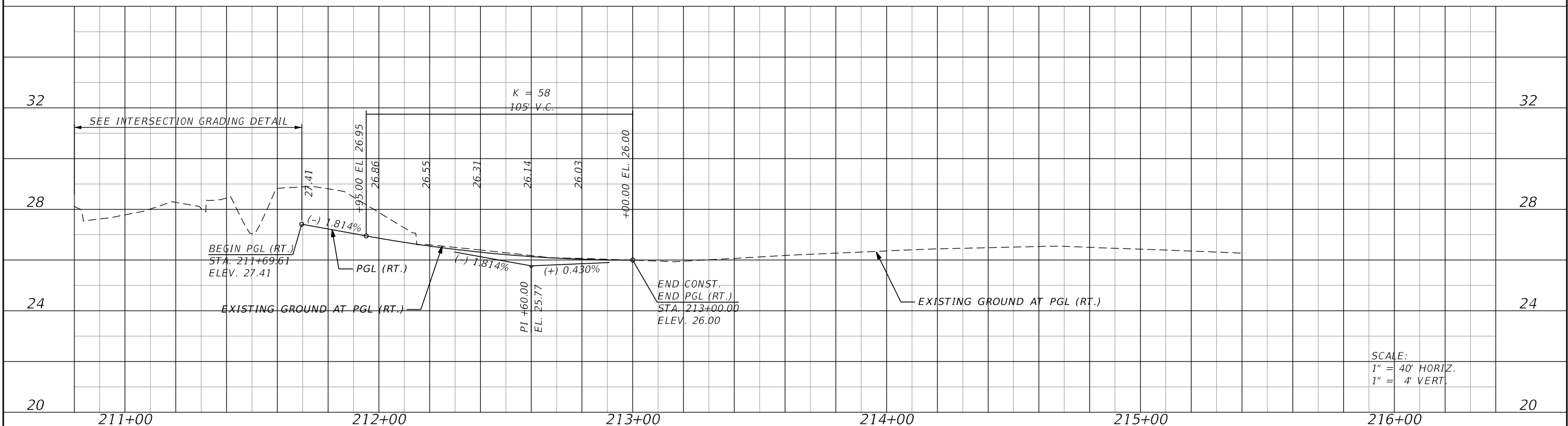
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEFT PROFILE GRADE LINE



SCALE:
 1" = 40' HORIZ.
 1" = 4' VERT.

RIGHT PROFILE GRADE LINE



SCALE:
 1" = 40' HORIZ.
 1" = 4' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

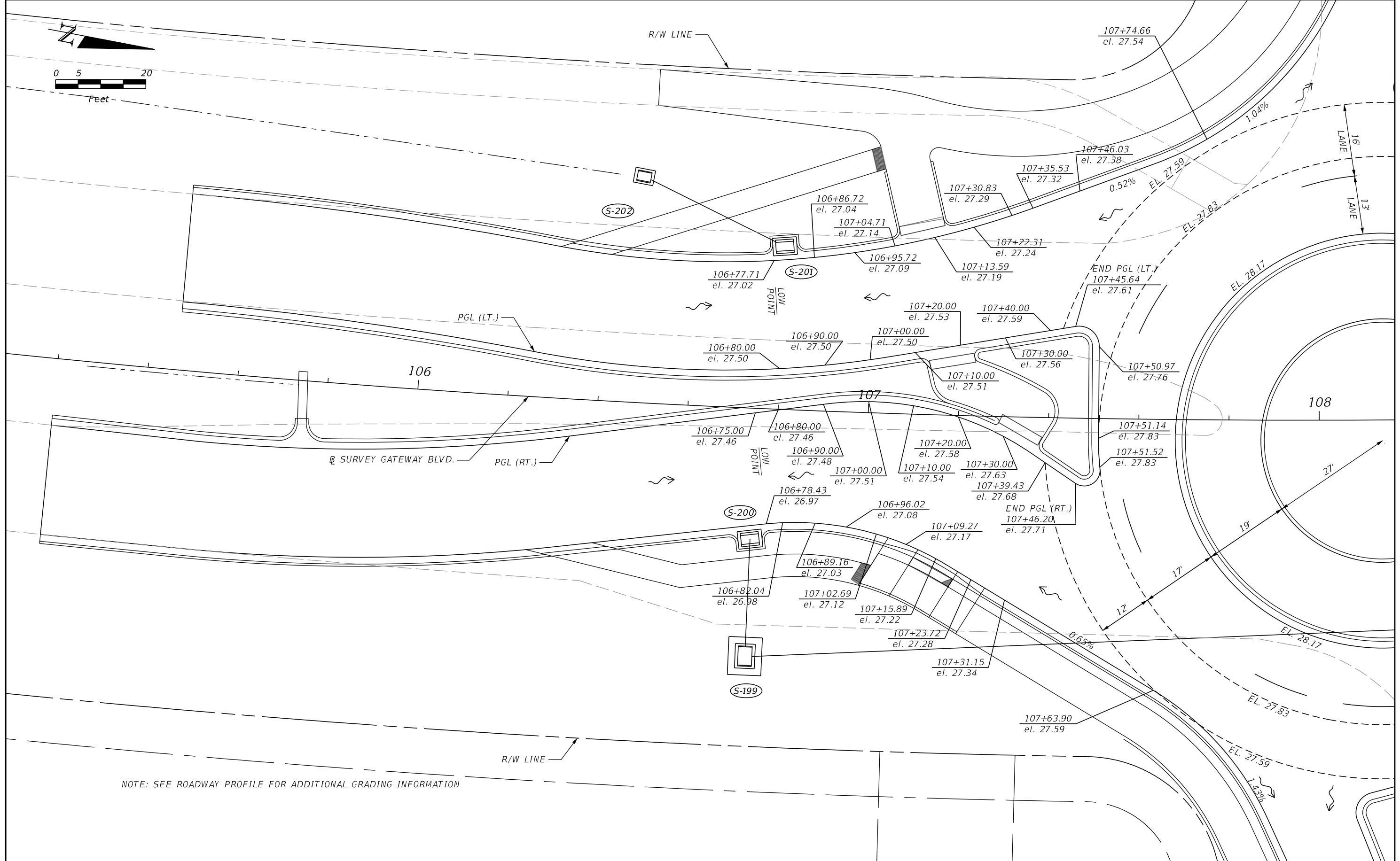
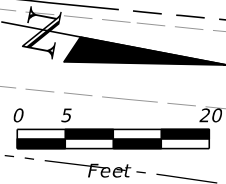
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
ROADWAY PROFILE (4)
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	22

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NOTE: SEE ROADWAY PROFILE FOR ADDITIONAL GRADING INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

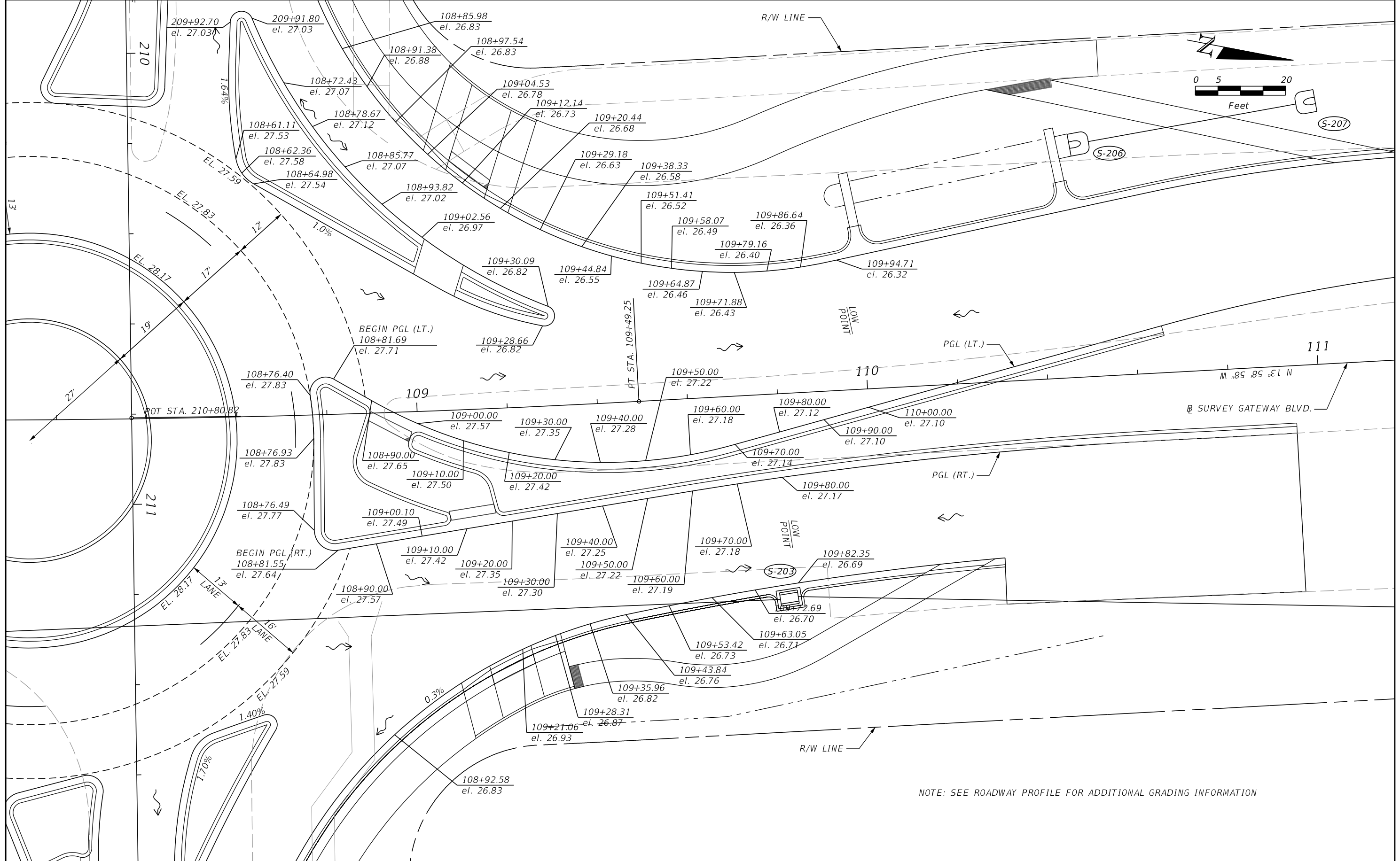
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
INTERSECTION GRADING
DETAIL (1)

CIP NO.	SHT. NO.
200671	24

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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

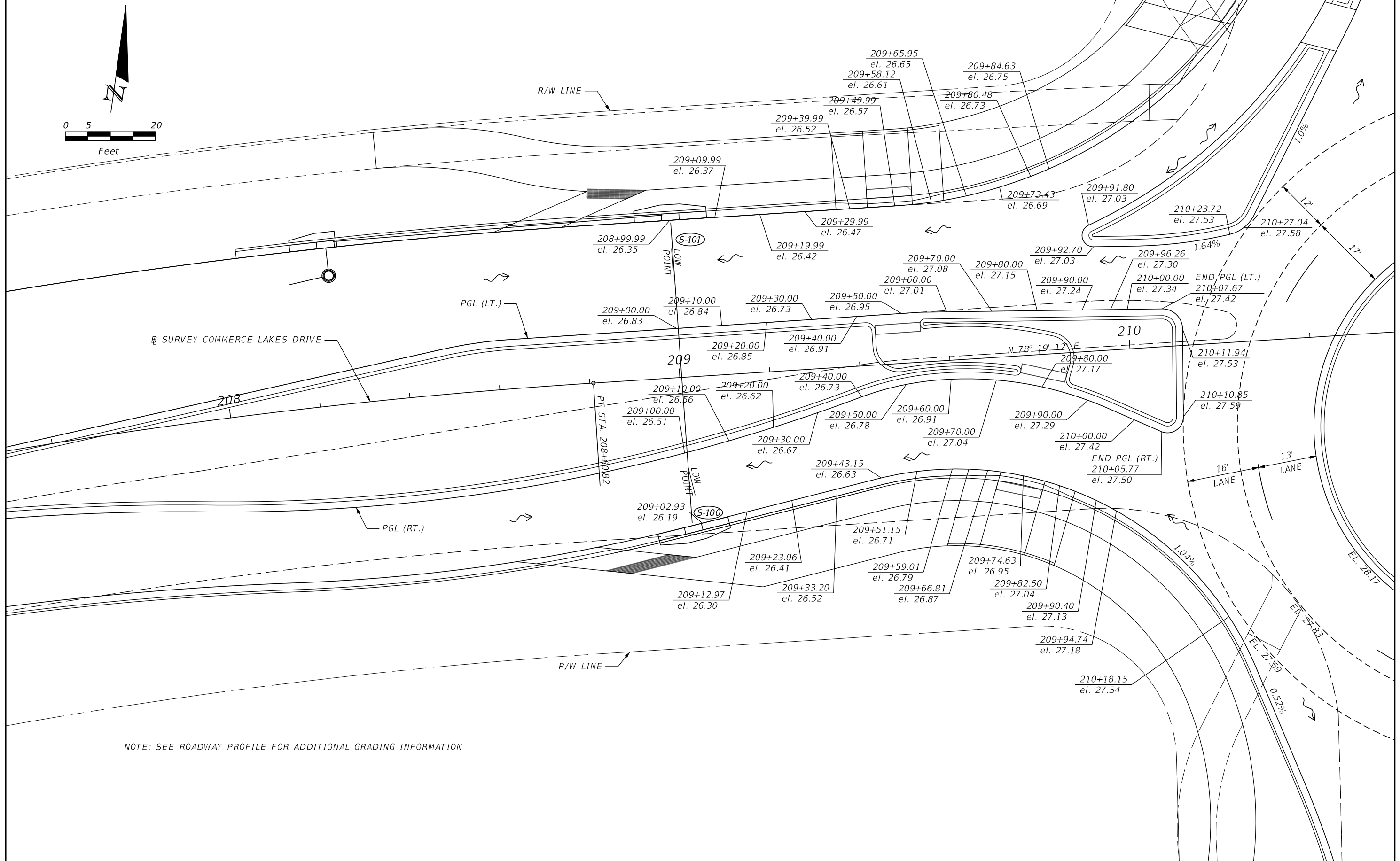
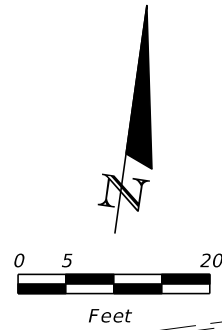
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDAABOUT)
INTERSECTION GRADING
DETAIL (2)

CIP NO.	SHT. NO.
200671	25



NOTE: SEE ROADWAY PROFILE FOR ADDITIONAL GRADING INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

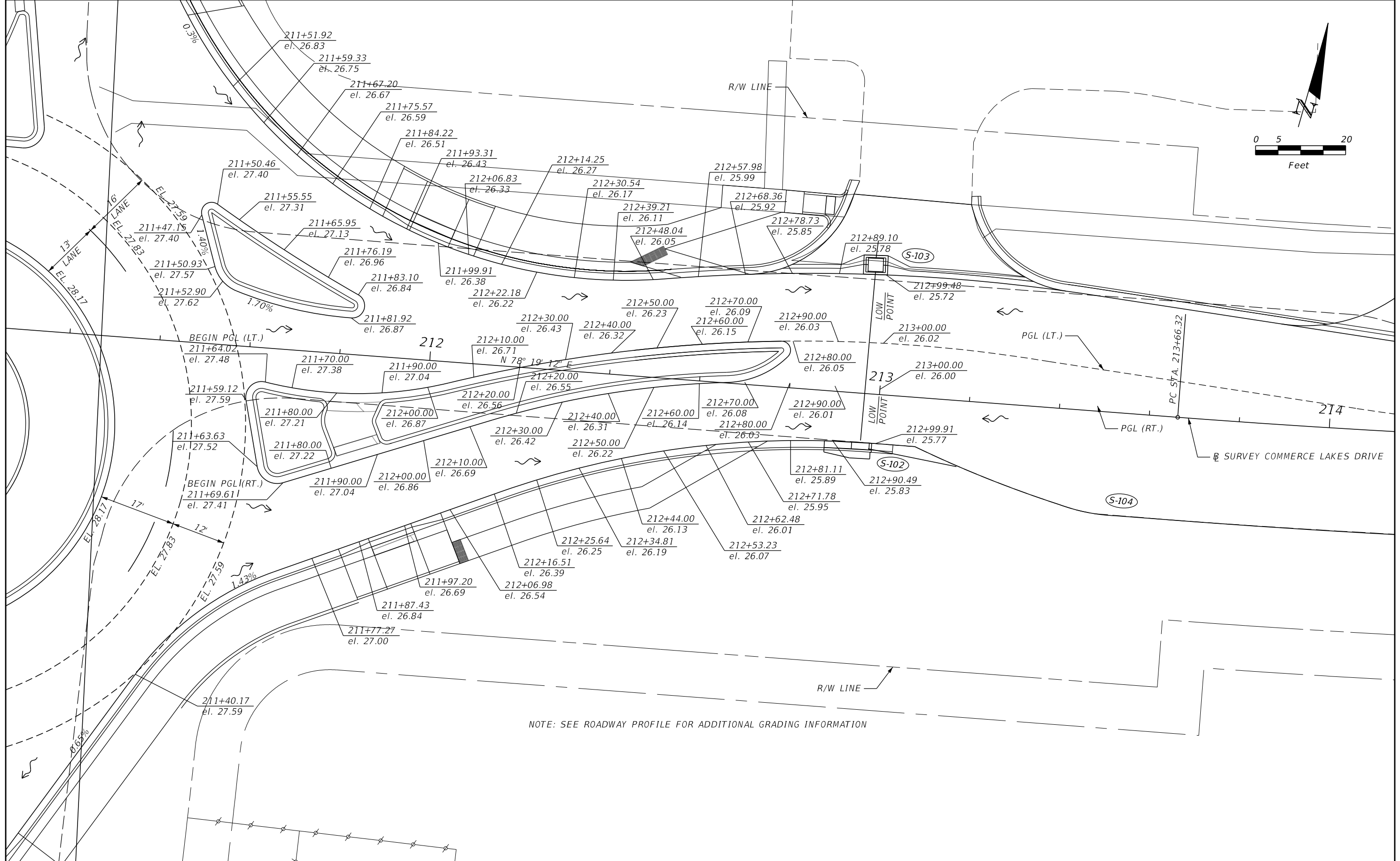
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
INTERSECTION GRADING
DETAIL (3)

CIP NO.	SHT. NO.
200671	26

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDAABOUT)
INTERSECTION GRADING
DETAIL (4)

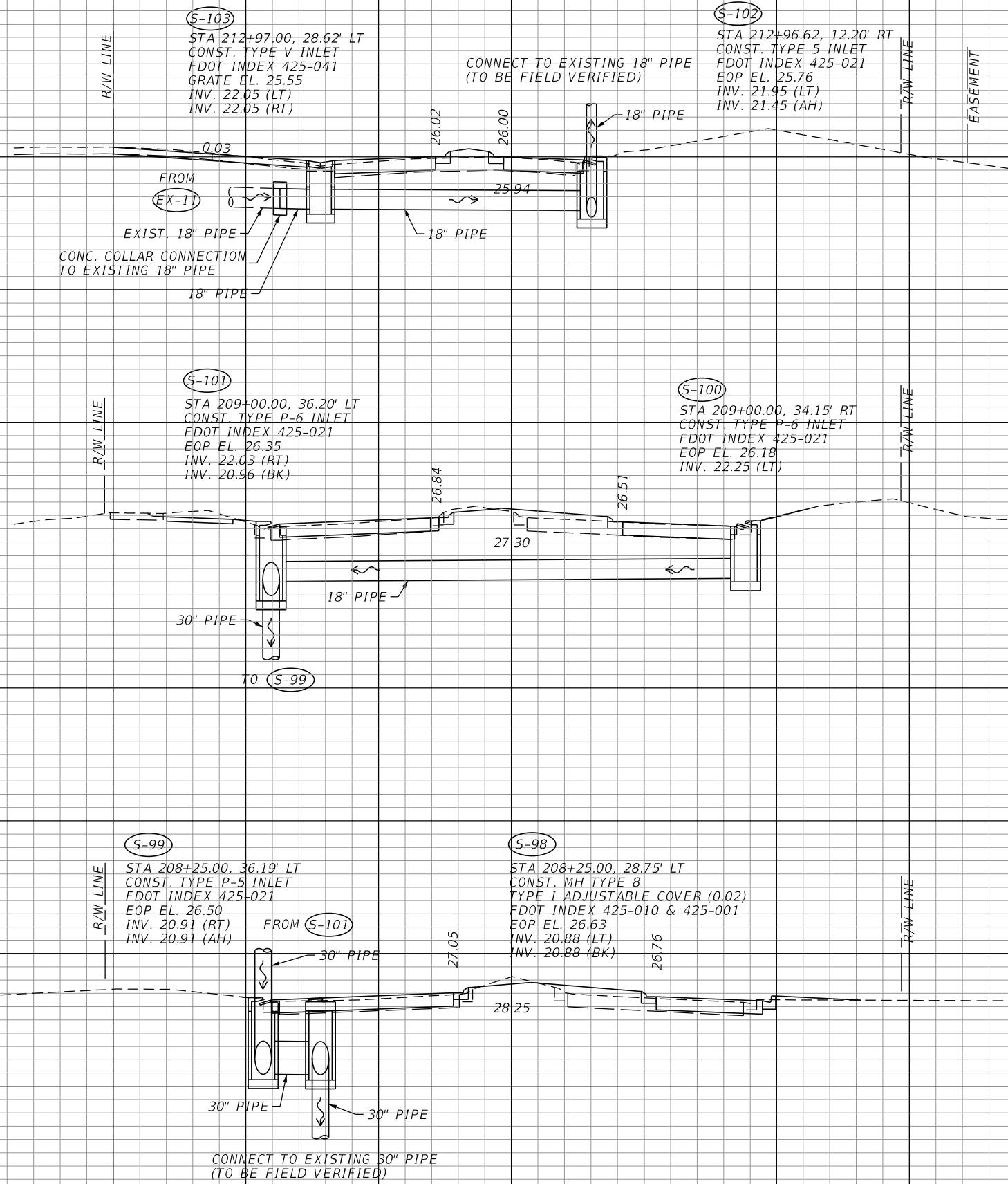
CIP NO.	SHT. NO.
200671	27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

34
32
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22
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18
16
14



S-103
S-102
213+00.00

S-101
S-100
209+00.00

S-99
S-98
208+25.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

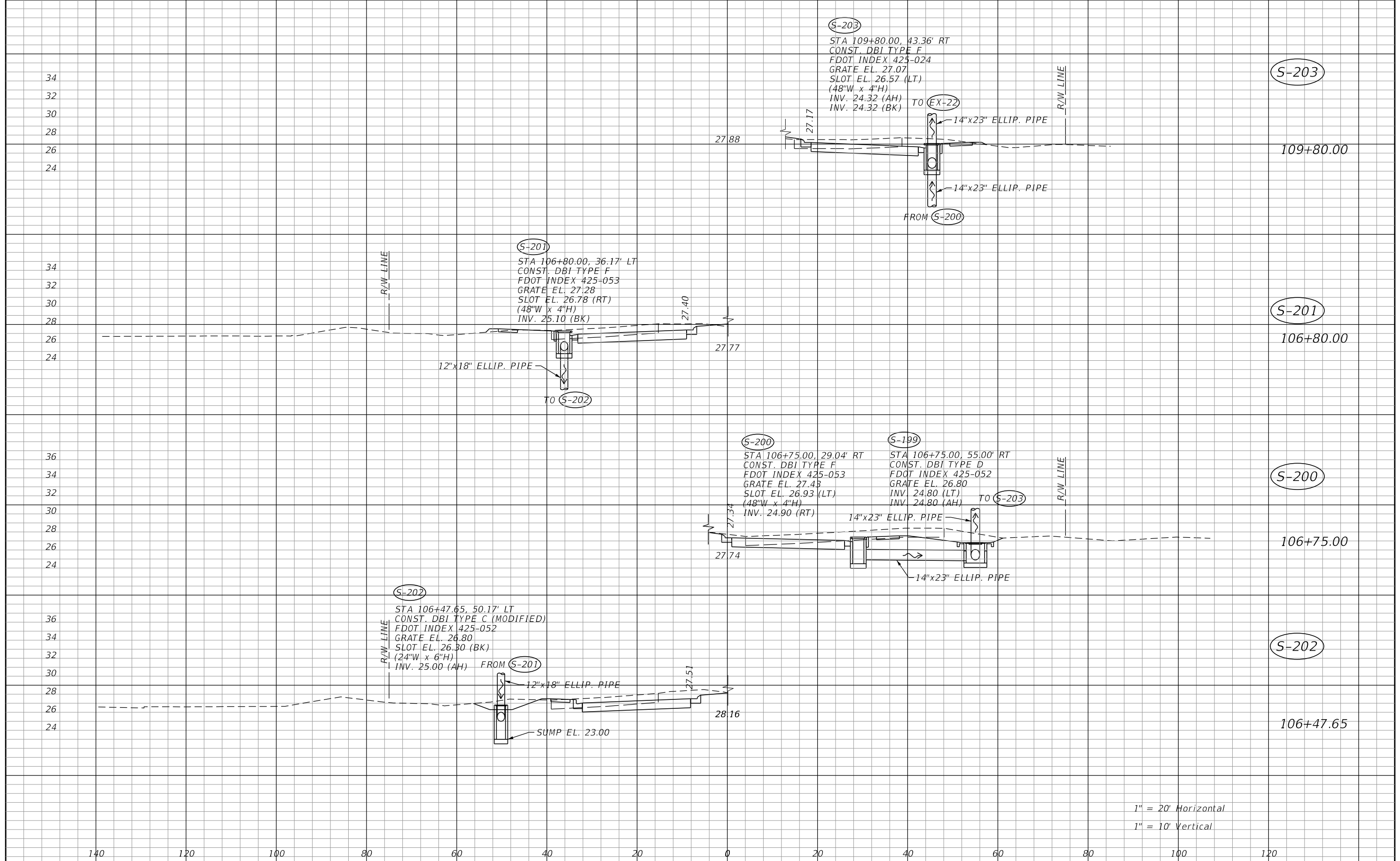
CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915




GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
DRAINAGE STRUCTURES (1)

CIP NO.	SHT. NO.
200671	28

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS				CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			DRAINAGE STRUCTURES (2)			
						200671	29		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DATE OF SURVEY: AUGUST 2019
 SURVEY MADE BY: TIERRA, INC.
 SUBMITTED BY: KEVIN H. SCOTT, P.E.

LEE COUNTY PUBLIC WORKS

COUNTY PROJECT NO. : 0671
 PROJECT NAME: GATEWAY BOULEVARD AND COMMERCE LAKES DRIVE

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	1	--	--	--	--	3	--	--	--	A-3	GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
2	--	--	1	23	1	--	--	--	--	13	1	NP	NP	A-2-4	LIGHT BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
3	--	--	1	20	1	--	--	--	--	17	1	20	5	A-2-4	LIGHT BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
4	--	--	1	17	1	--	--	--	--	44	1	17	4	A-4	LIGHT BROWN SILTY-CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.


▼ - WATER TABLE ENCOUNTERED

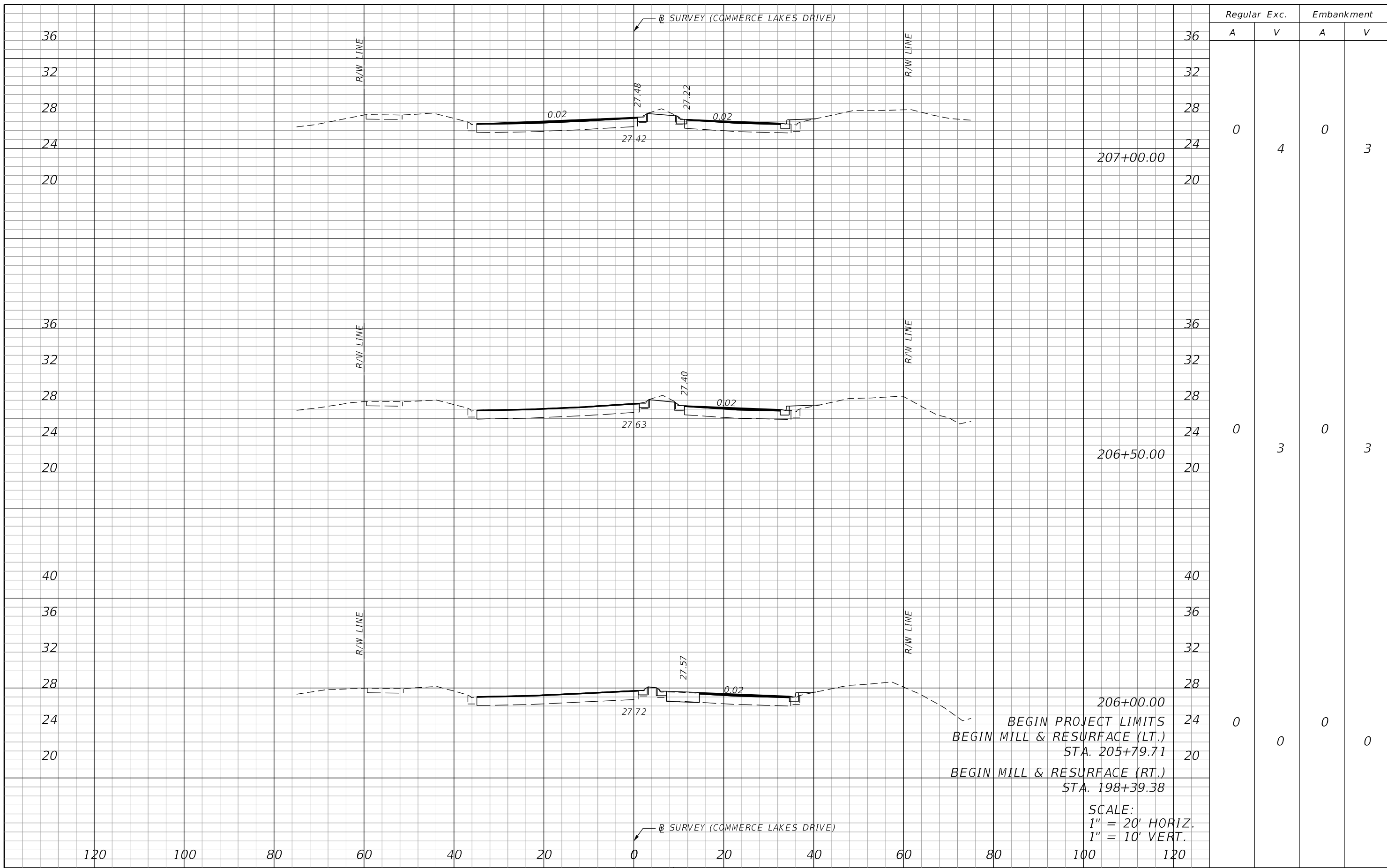
▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

NP - NON-PLASTIC

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATA 2 AND 3 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 4 (A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS, IF NECESSARY, WILL BE PRESENTED ON THE NEXT SUBMITTAL.

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT) ROADWAY SOIL SURVEY	CIP NO. 200671	SHT. NO. 30
REVISIONS																				
DATE	DESCRIPTION	DATE	DESCRIPTION																	



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	4	0		0	3
0	3	0		0	3
0	0	0		0	0

206+00.00
 BEGIN PROJECT LIMITS
 BEGIN MILL & RESURFACE (LT.)
 STA. 205+79.71
 BEGIN MILL & RESURFACE (RT.)
 STA. 198+39.38

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

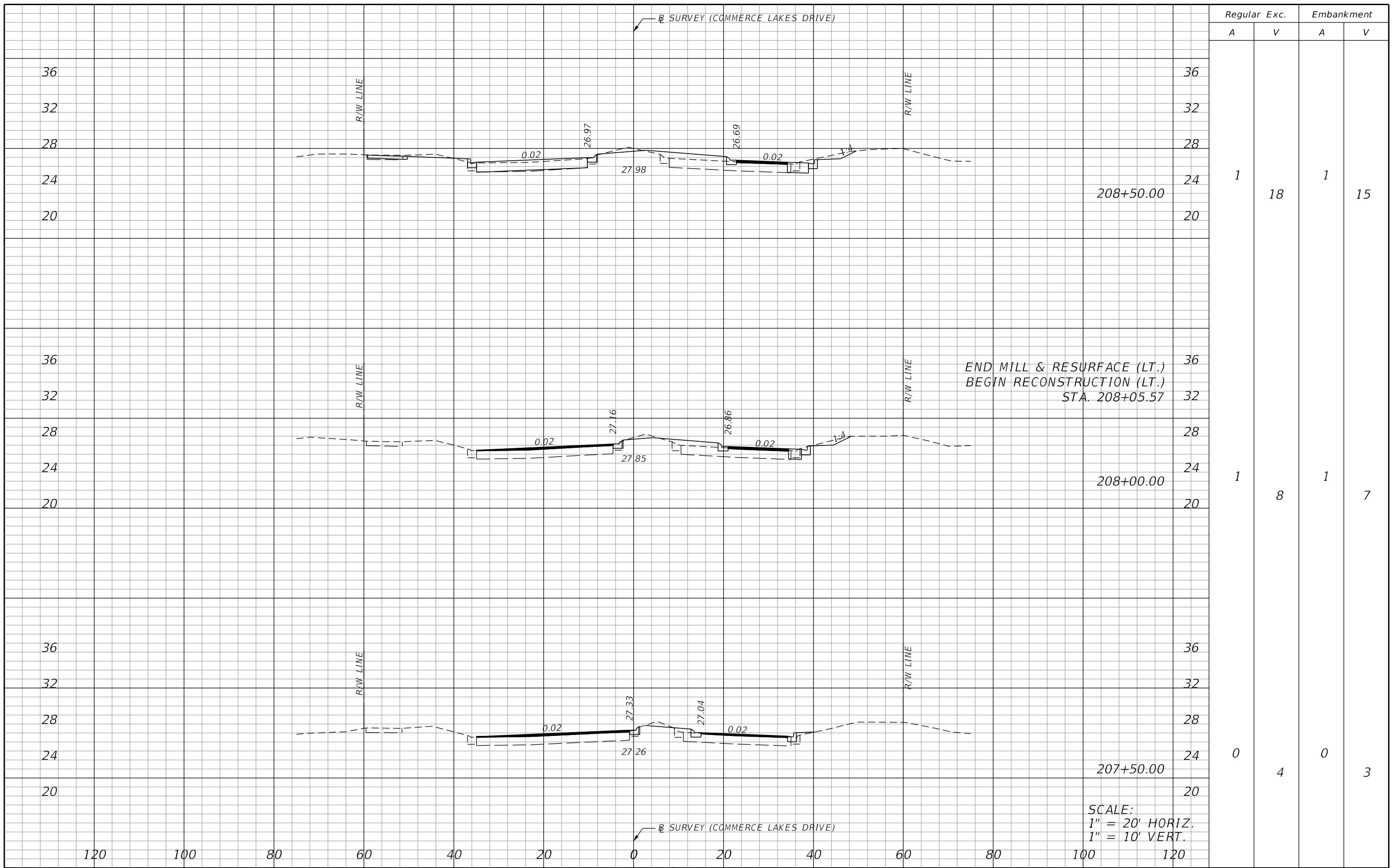
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	31

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
1	18	1	15		
1	8	1	7		
0	4	0	3		

END MILL & RESURFACE (LT.)
 BEGIN RECONSTRUCTION (LT.)
 STA. 208+05.57

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

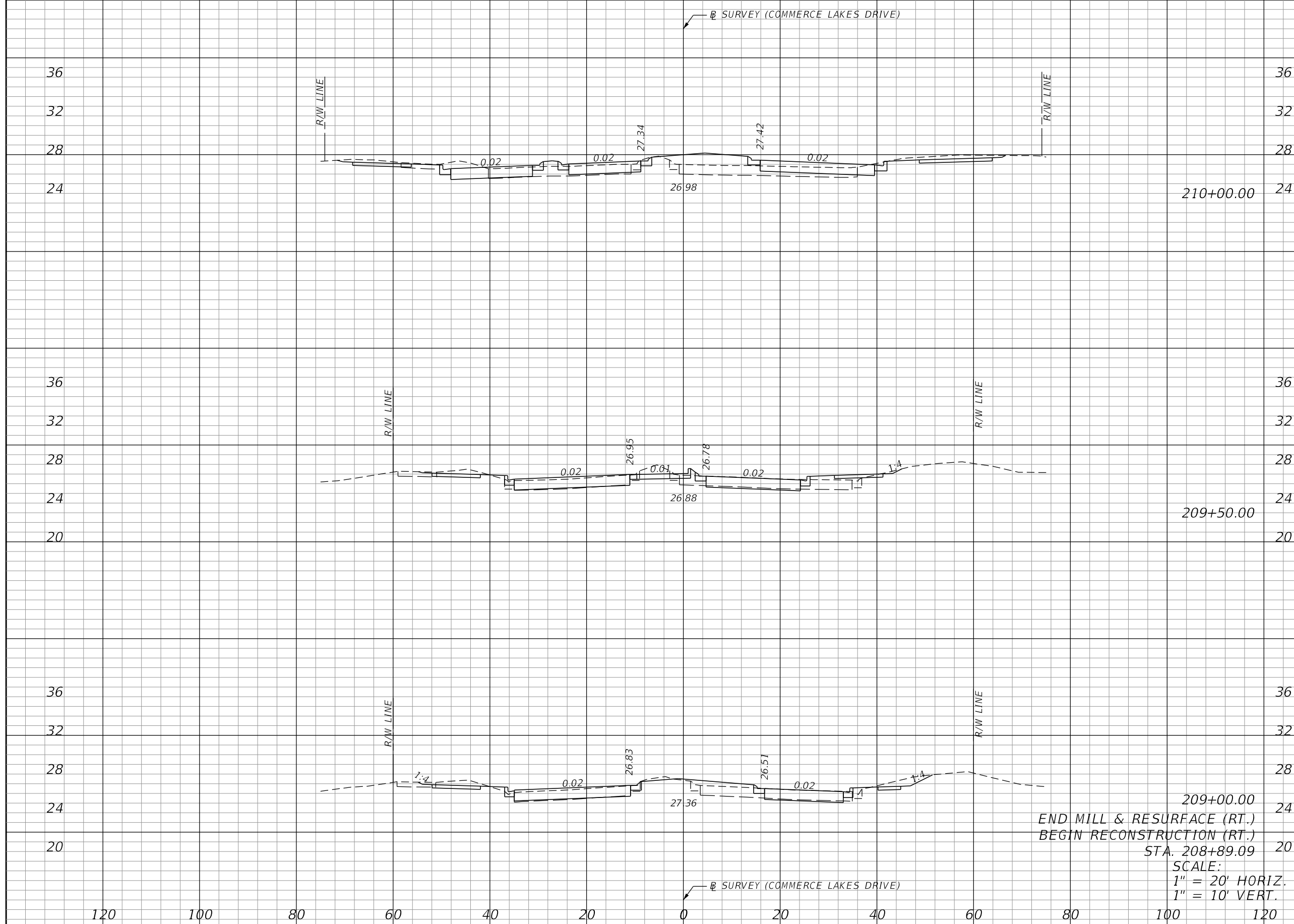
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
5				2	
	54				22
2				0	
	31				11
2				1	
	27				16

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

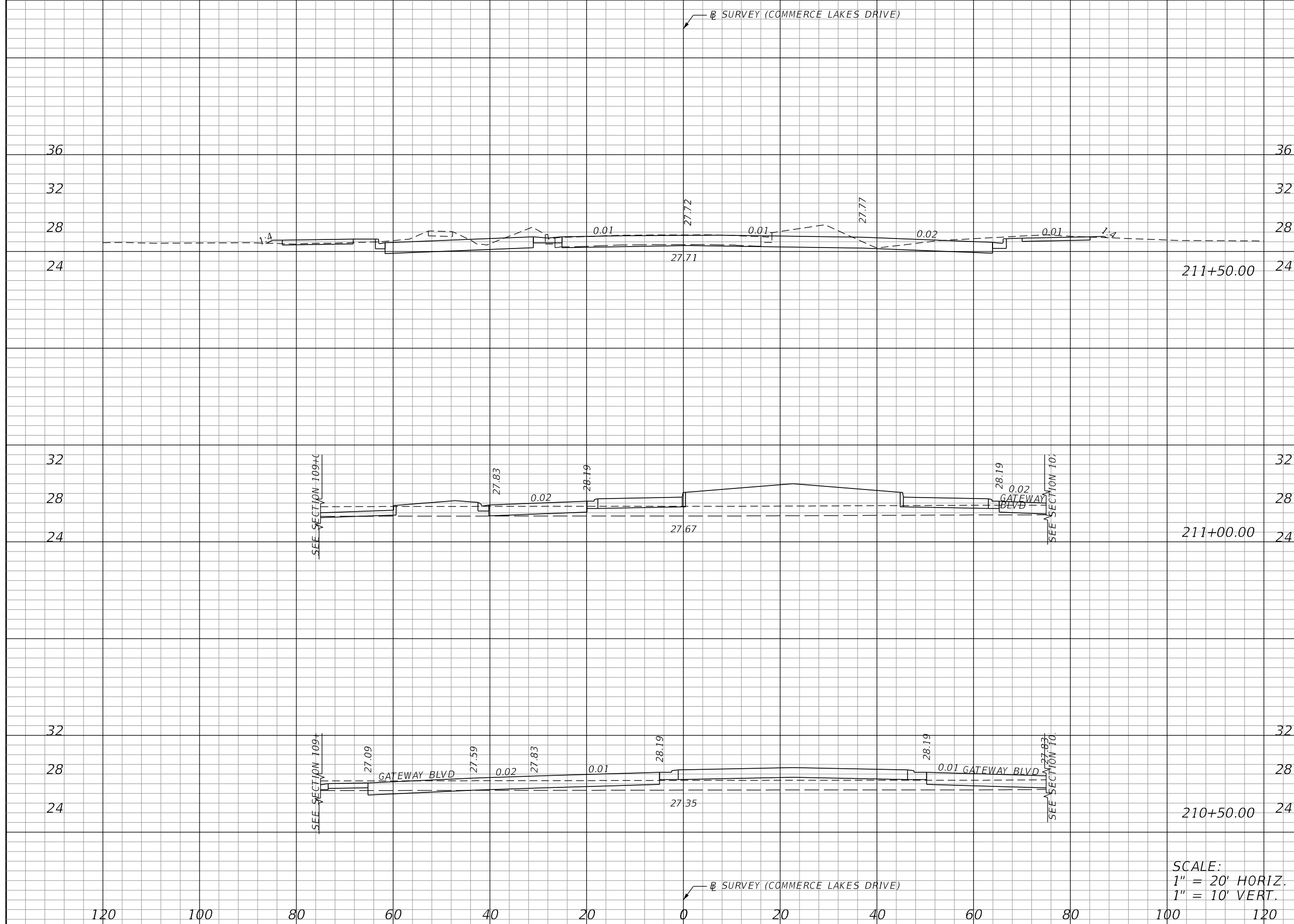
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	33

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
13	112	0	2		
	0		0		
	36		18		

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

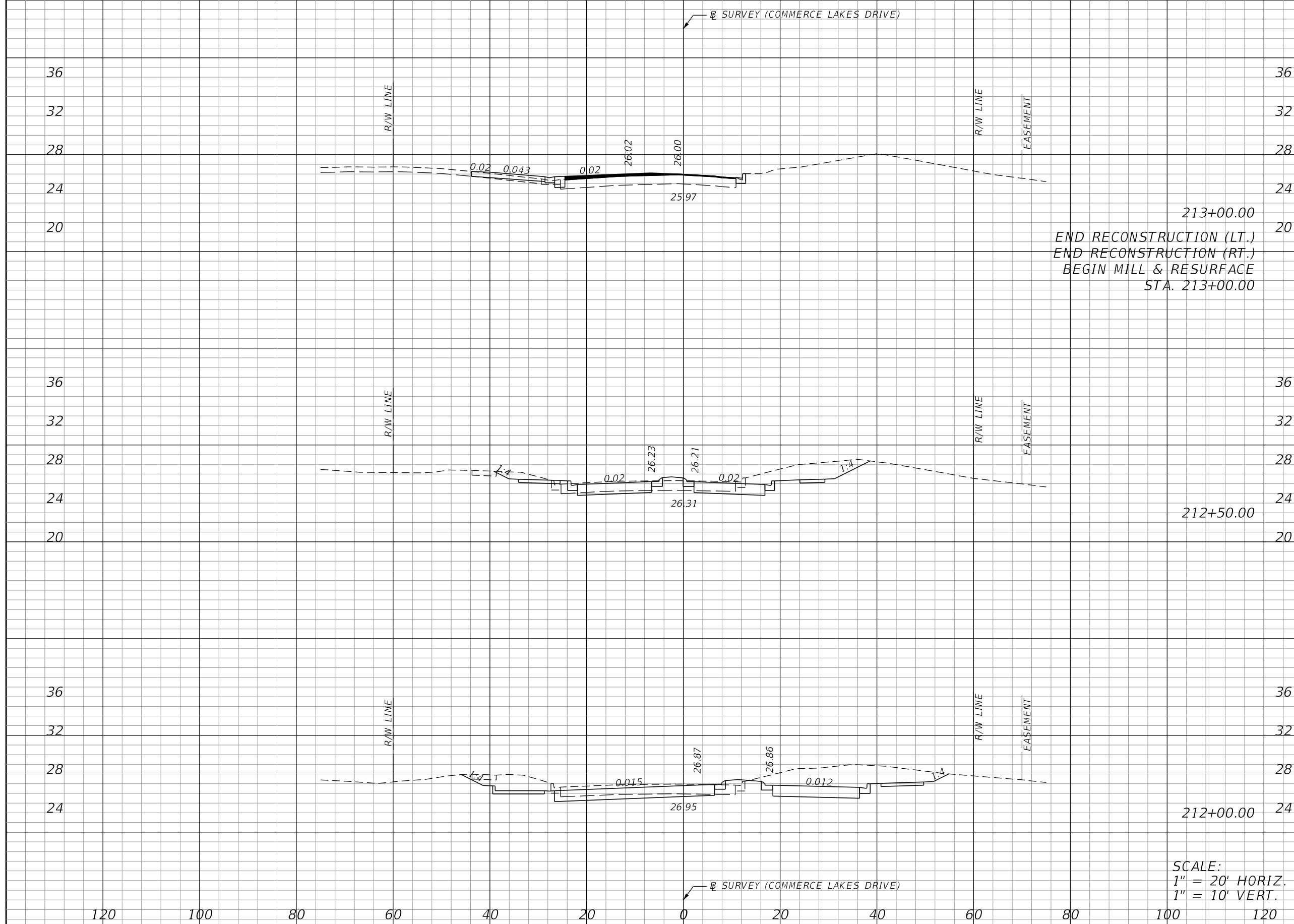
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	51	0	2		
6	166	0	4		
14	228	0	4		

213+00.00
 END RECONSTRUCTION (LT.)
 END RECONSTRUCTION (RT.)
 BEGIN MILL & RESURFACE
 STA. 213+00.00

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

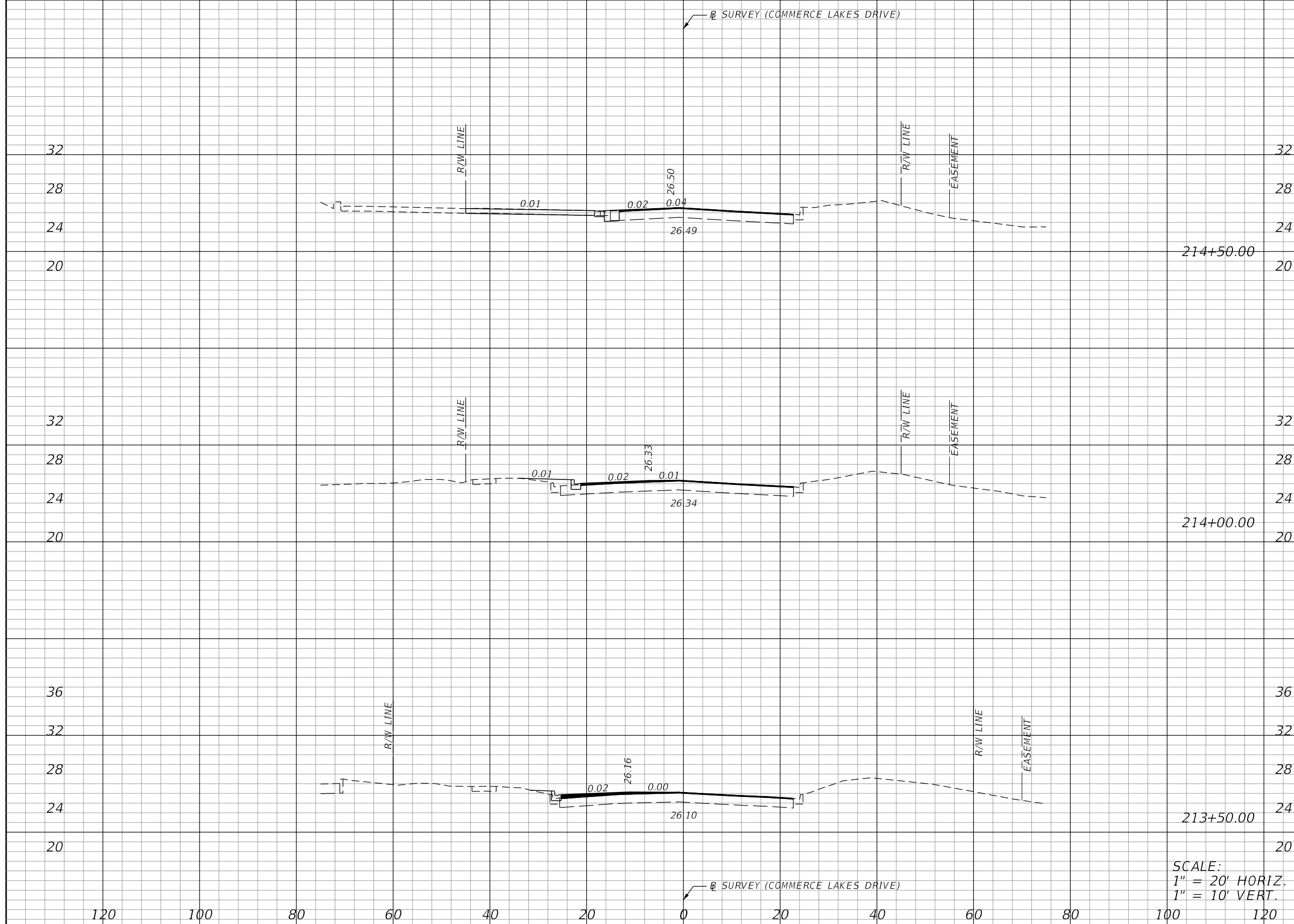
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	35

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	1	0	3	0	0
0	0	0	4	0	0
0	0	0	1	0	0

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

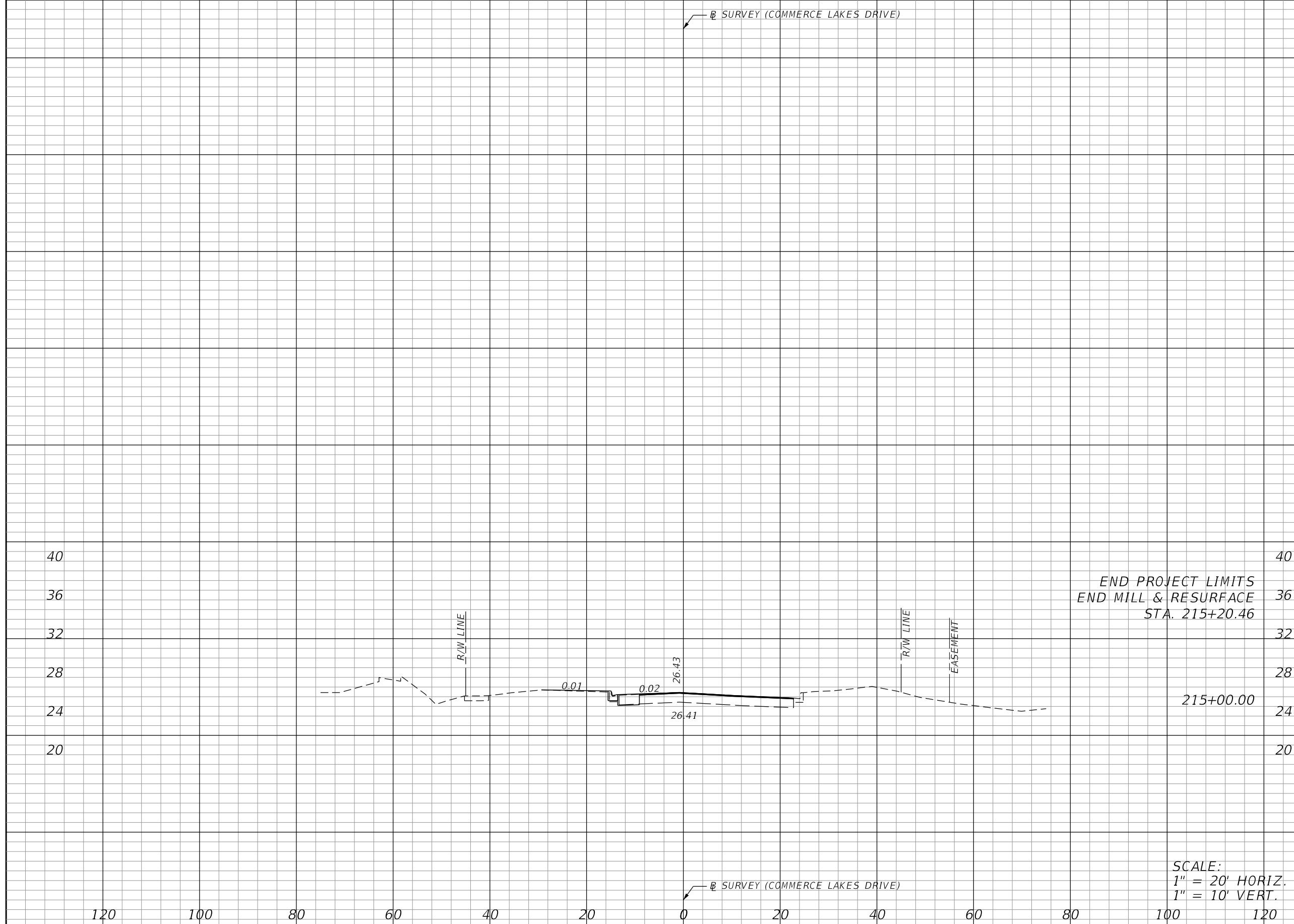
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	36

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



END PROJECT LIMITS
 END MILL & RESURFACE
 STA. 215+20.46

215+00.00

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

Regular		Exc.		Embankment	
A	V	A	V	A	V
0		2		0	1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

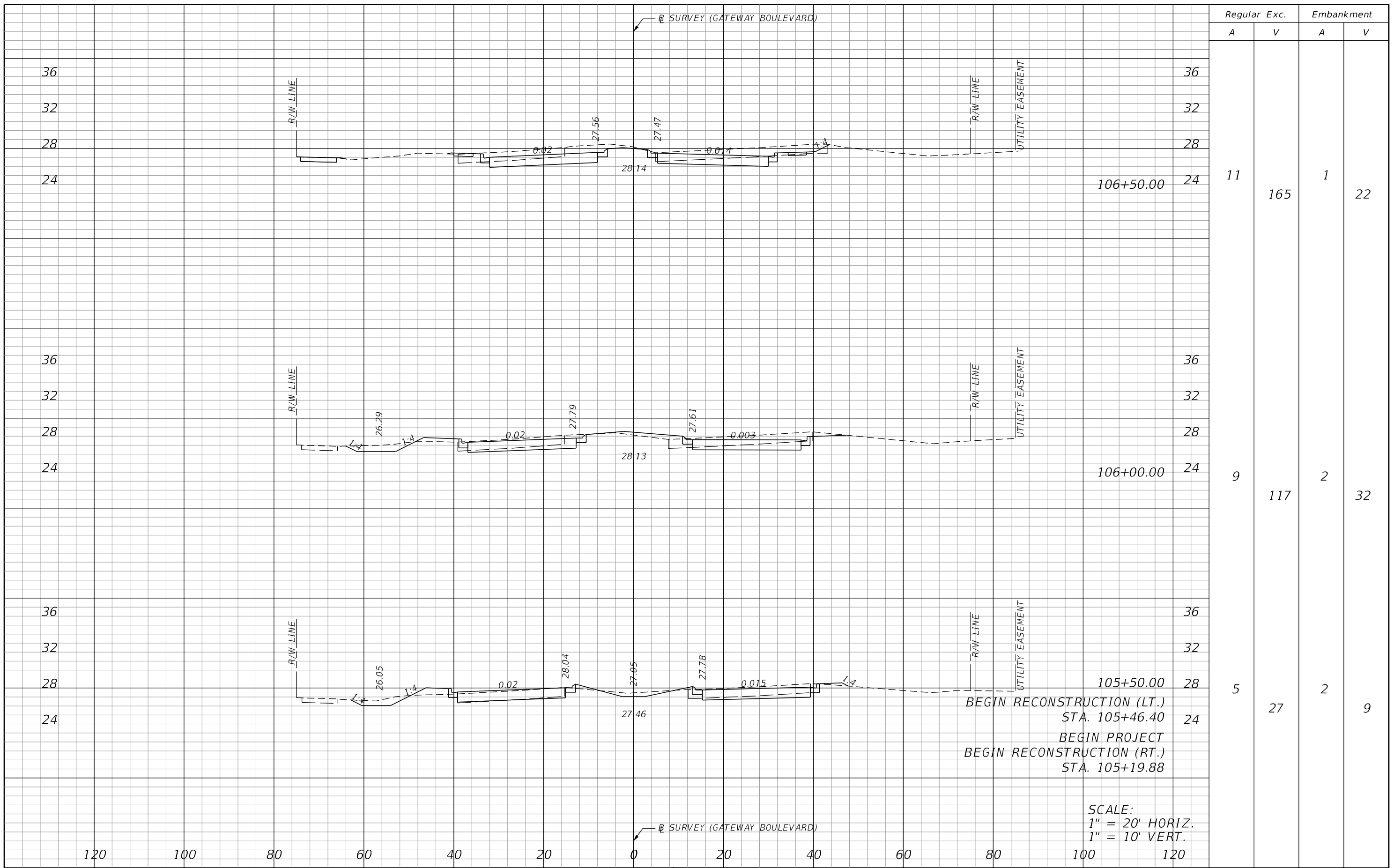
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	37

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
11			165	1	22
9			117	2	32
5			27	2	9

BEGIN RECONSTRUCTION (LT.)
 STA. 105+46.40
 BEGIN PROJECT
 BEGIN RECONSTRUCTION (RT.)
 STA. 105+19.88

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

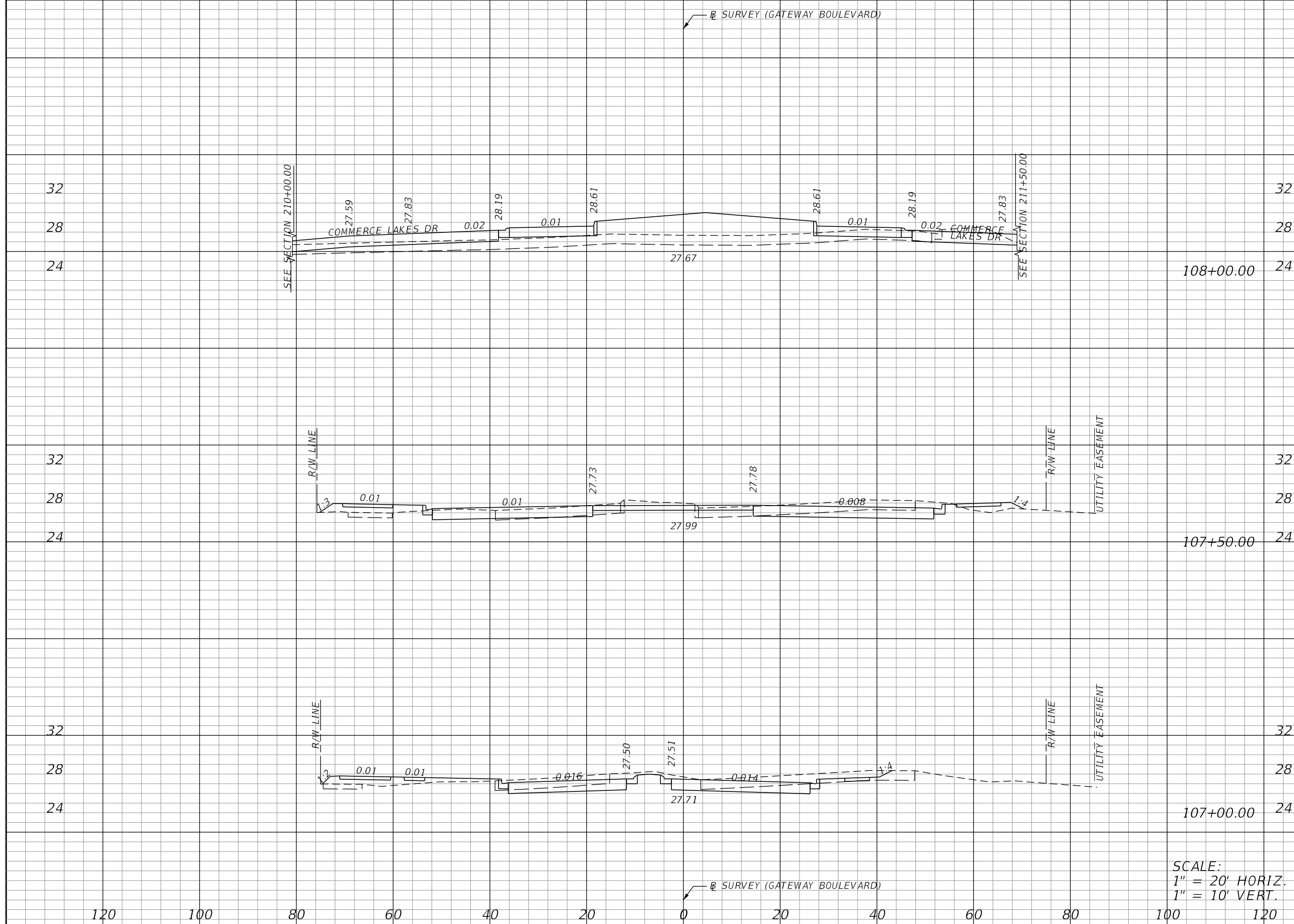
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOULT)
CROSS SECTIONS
 (GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	38

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
4	132	19	192		
12	185	4	84		
10	177	6	54		

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

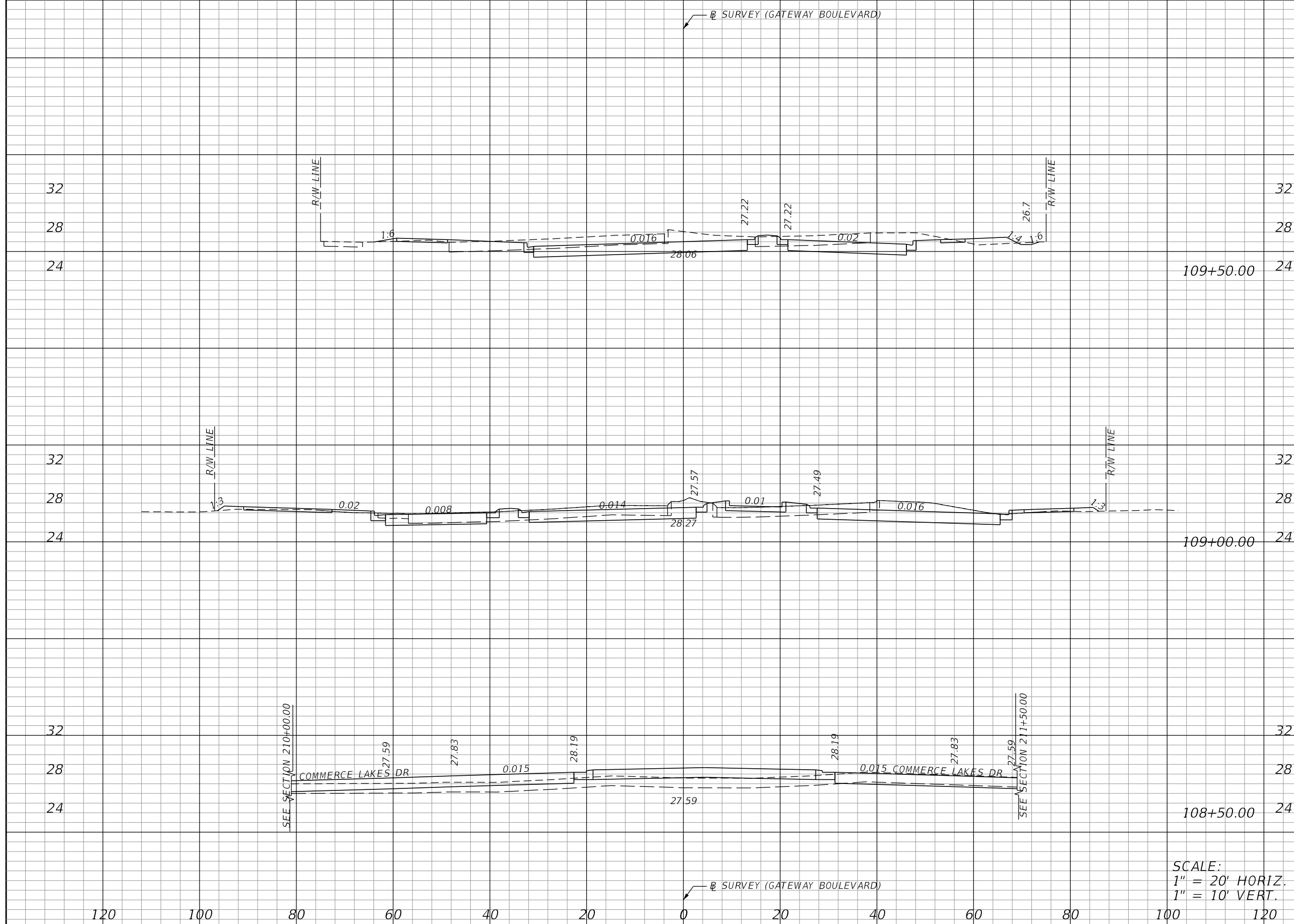
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	39

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
22	346	1	23		
20	178	2	35		
1	43	2	176		

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

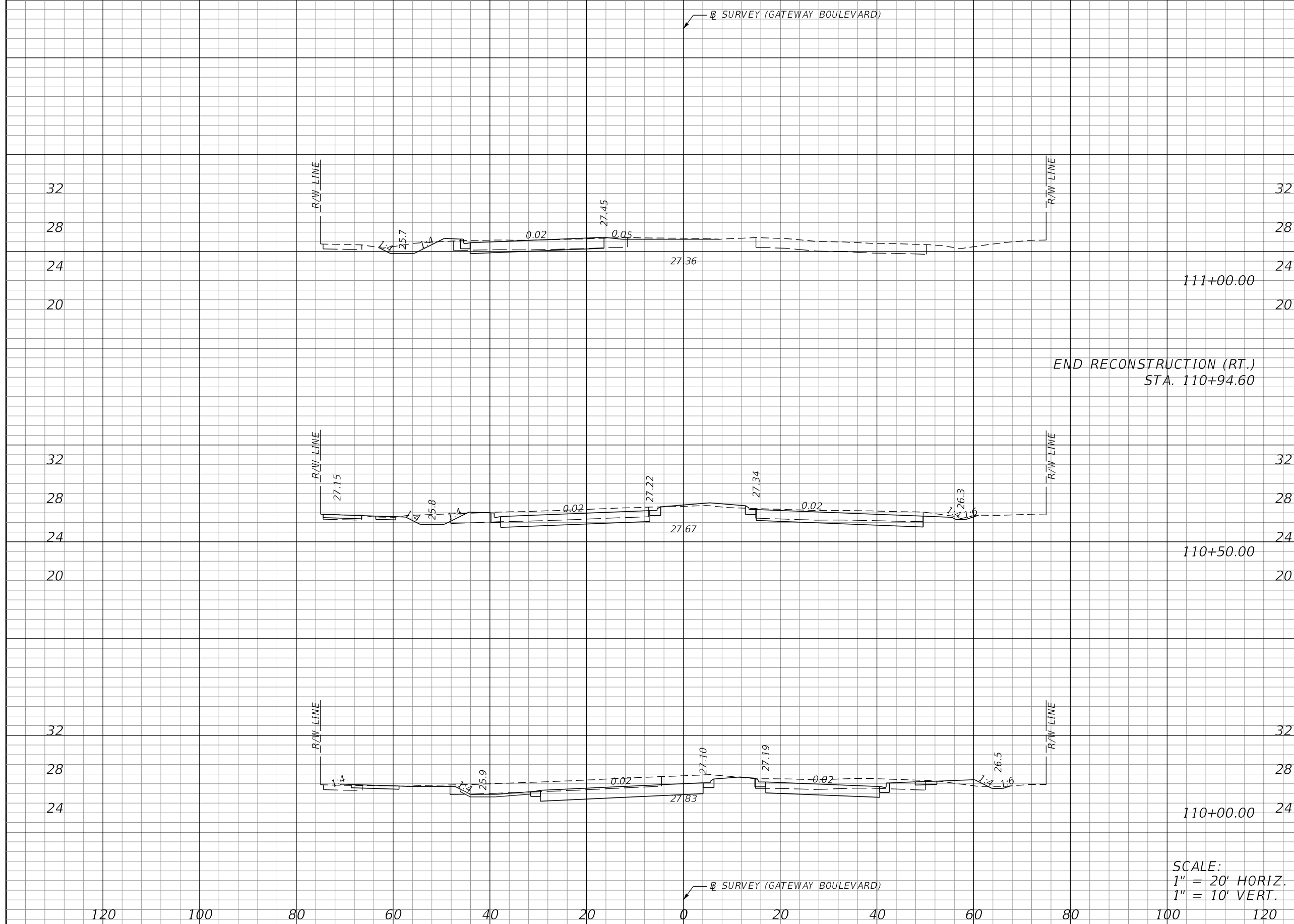
JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	40

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
111+00.00	3		97		1	13
110+50.00	10		214		0	12
110+00.00	16		313		1	17

END RECONSTRUCTION (RT.)
STA. 110+94.60

SCALE:
1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

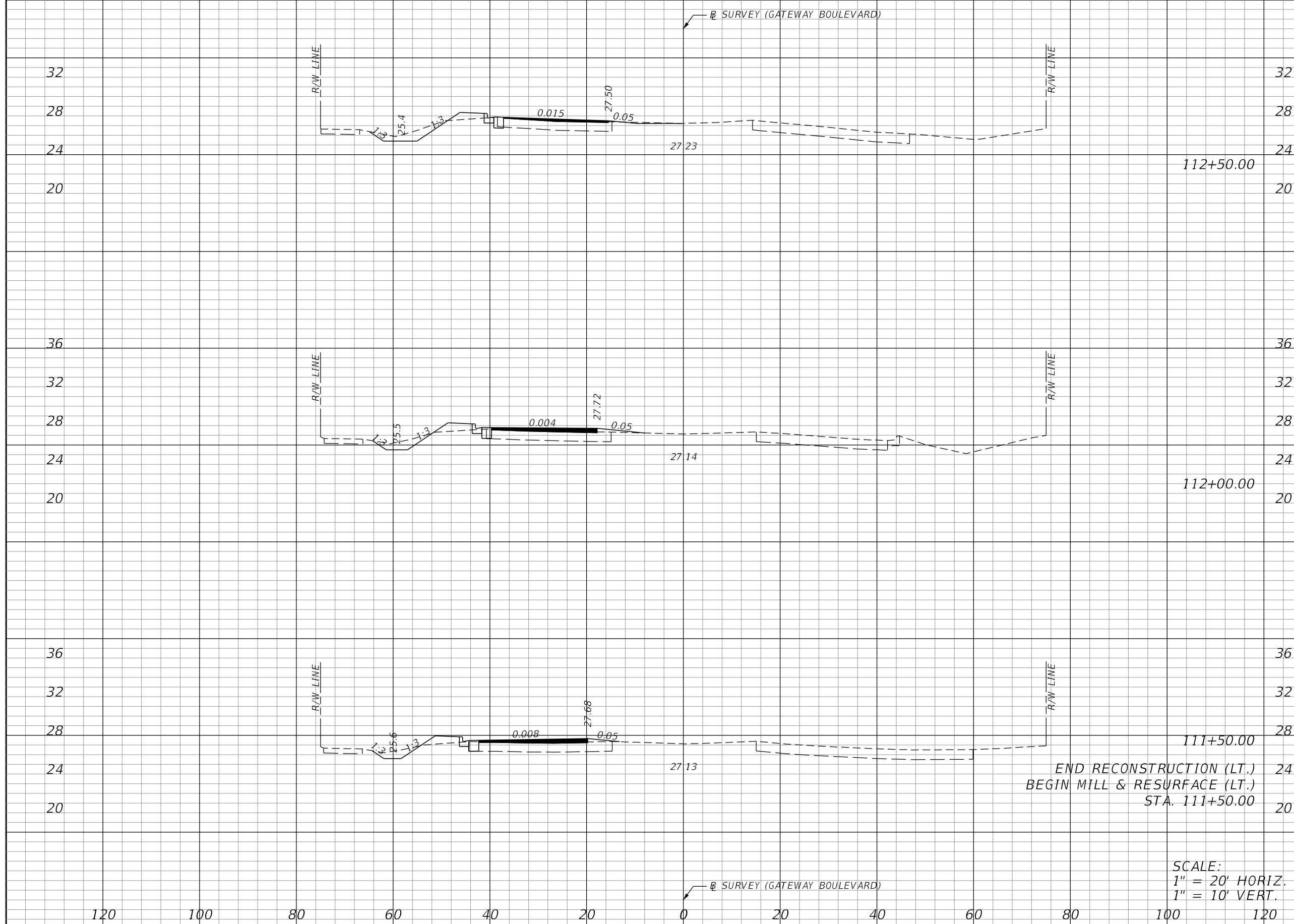
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	41

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
3	39	2	20		
2	31	1	20		
2	41	2	24		

END RECONSTRUCTION (LT.)
 BEGIN MILL & RESURFACE (LT.)
 STA. 111+50.00

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
 P.E. LICENSE NUMBER 62449
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



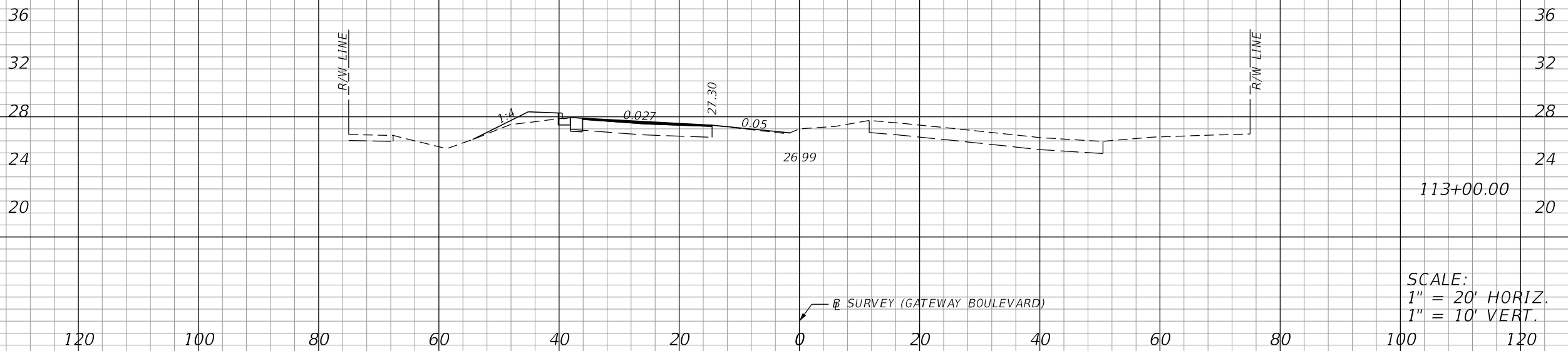
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
 (GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	42

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Regular		Exc.		Embankment	
A	V	A	V	A	V

← SURVEY (GATEWAY BOULEVARD)



SCALE:
1" = 20' HORIZ.
1" = 10' VERT.

0	26	0	13
---	----	---	----

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
CROSS SECTIONS
(GATEWAY BOULEVARD)

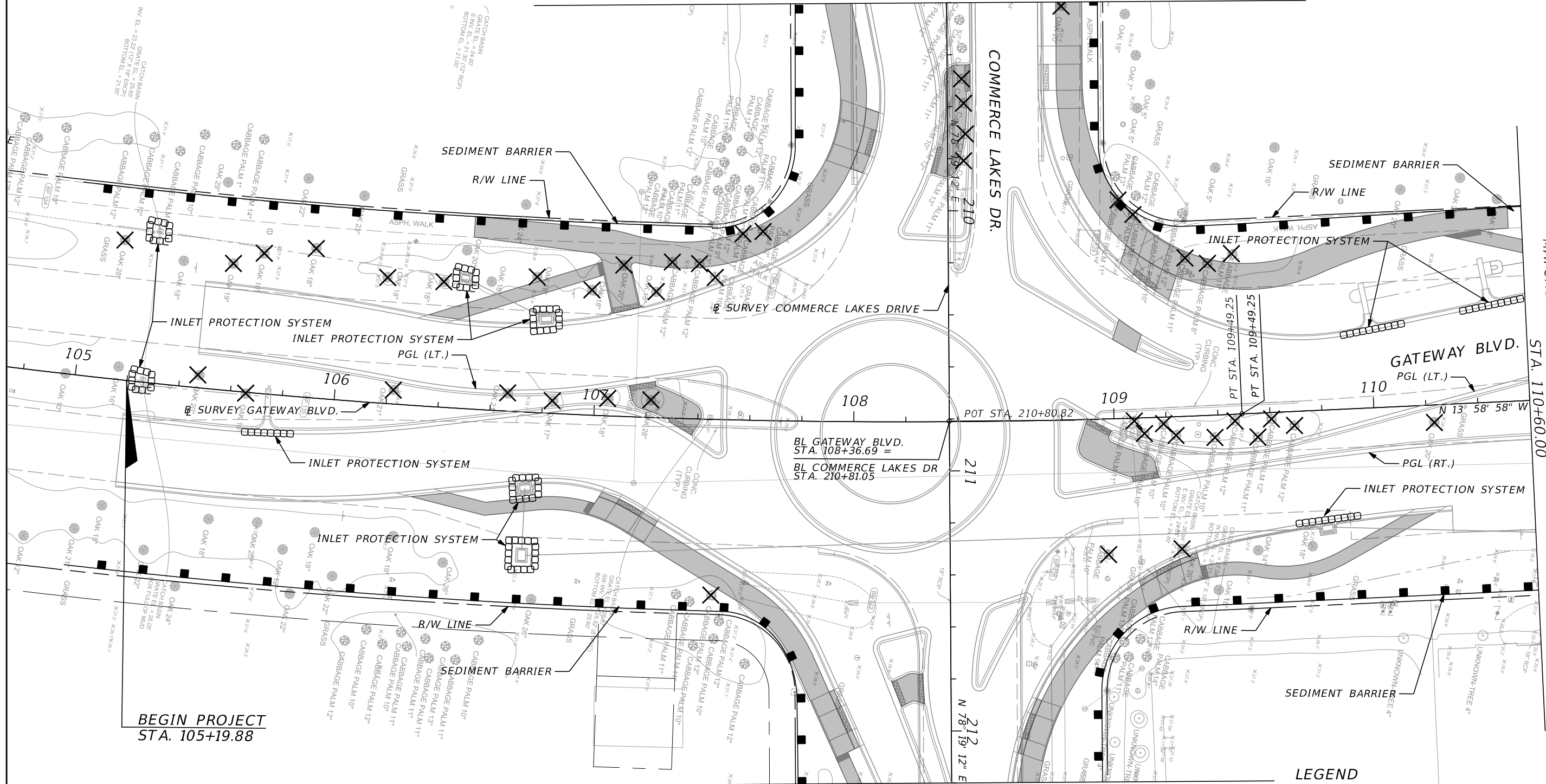
CIP NO.	SHT. NO.
200671	43

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1" = 40'

MATCHLINE - SEE EROSION CONTROL (3)
STA. 209+20.00

MATCHLINE - SEE EROSION CONTROL (2)
STA. 110+60.00



BEGIN PROJECT
STA. 105+19.88

MATCHLINE - SEE EROSION CONTROL (4)
STA. 212+20.00

- LEGEND**
- TREE TO BE REMOVED
 - MILLING LIM TS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

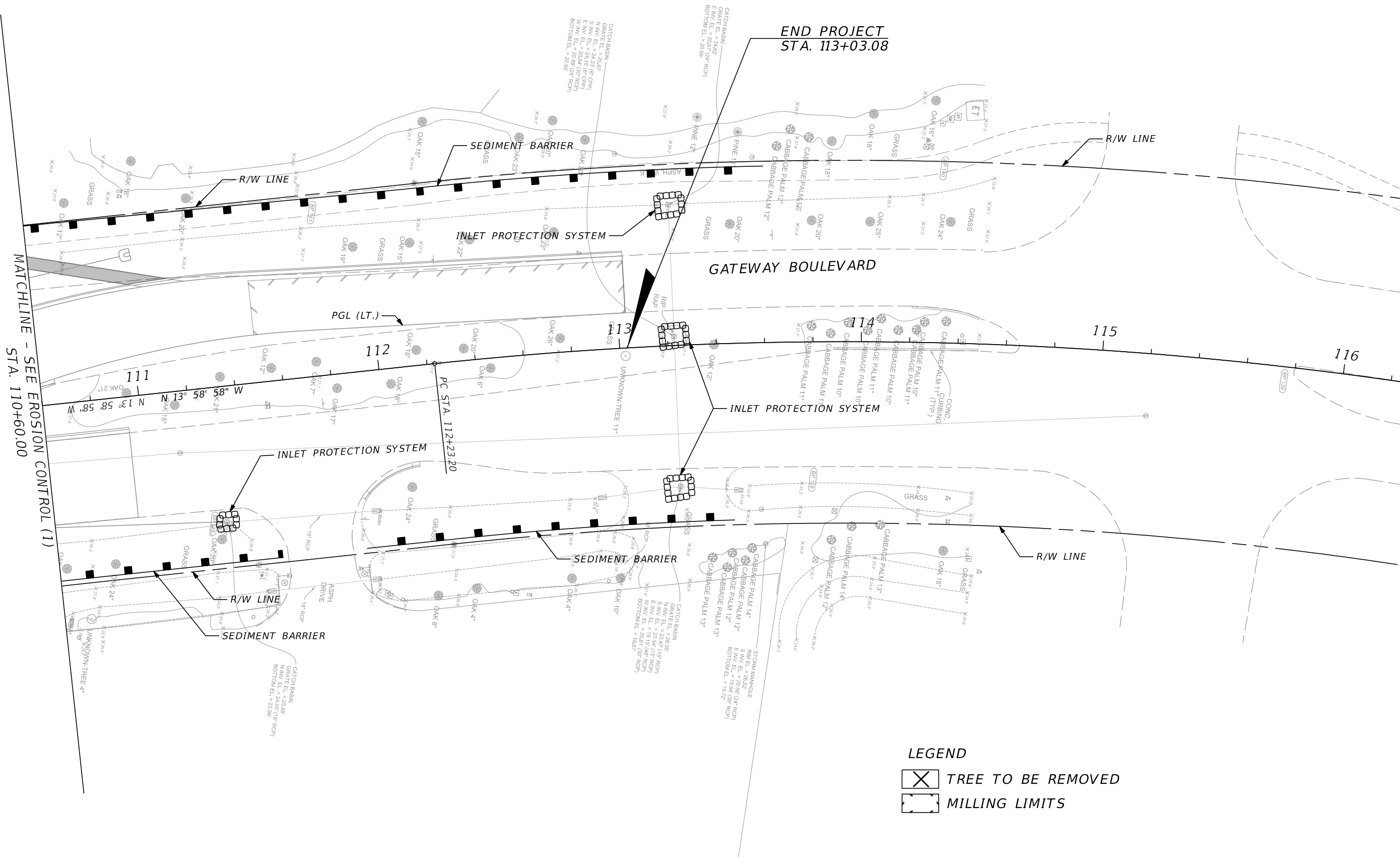
CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBABOUT)
EROSION CONTROL (1)
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	44

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND
 TREE TO BE REMOVED
 MILLING LIMITS

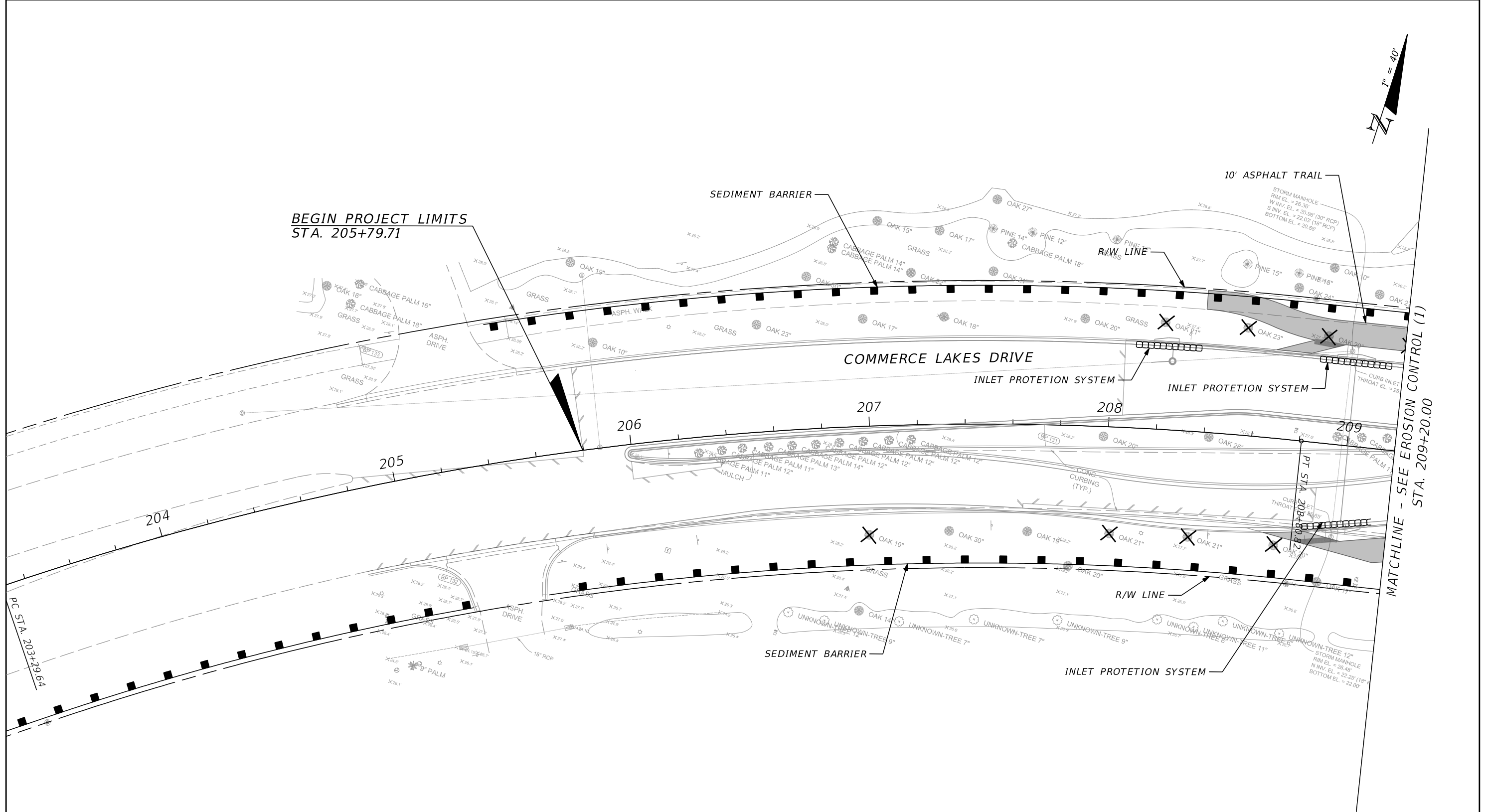
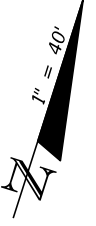
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER J. KNOX, P.E.
 P.E. LICENSE NUMBER 67350
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDABOUT)
EROSION CONTROL (2)
 (GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	45



BEGIN PROJECT LIMITS
STA. 205+79.71

MATCHLINE - SEE EROSION CONTROL (1)
STA. 209+20.00

LEGEND

- TREE TO BE REMOVED
- MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

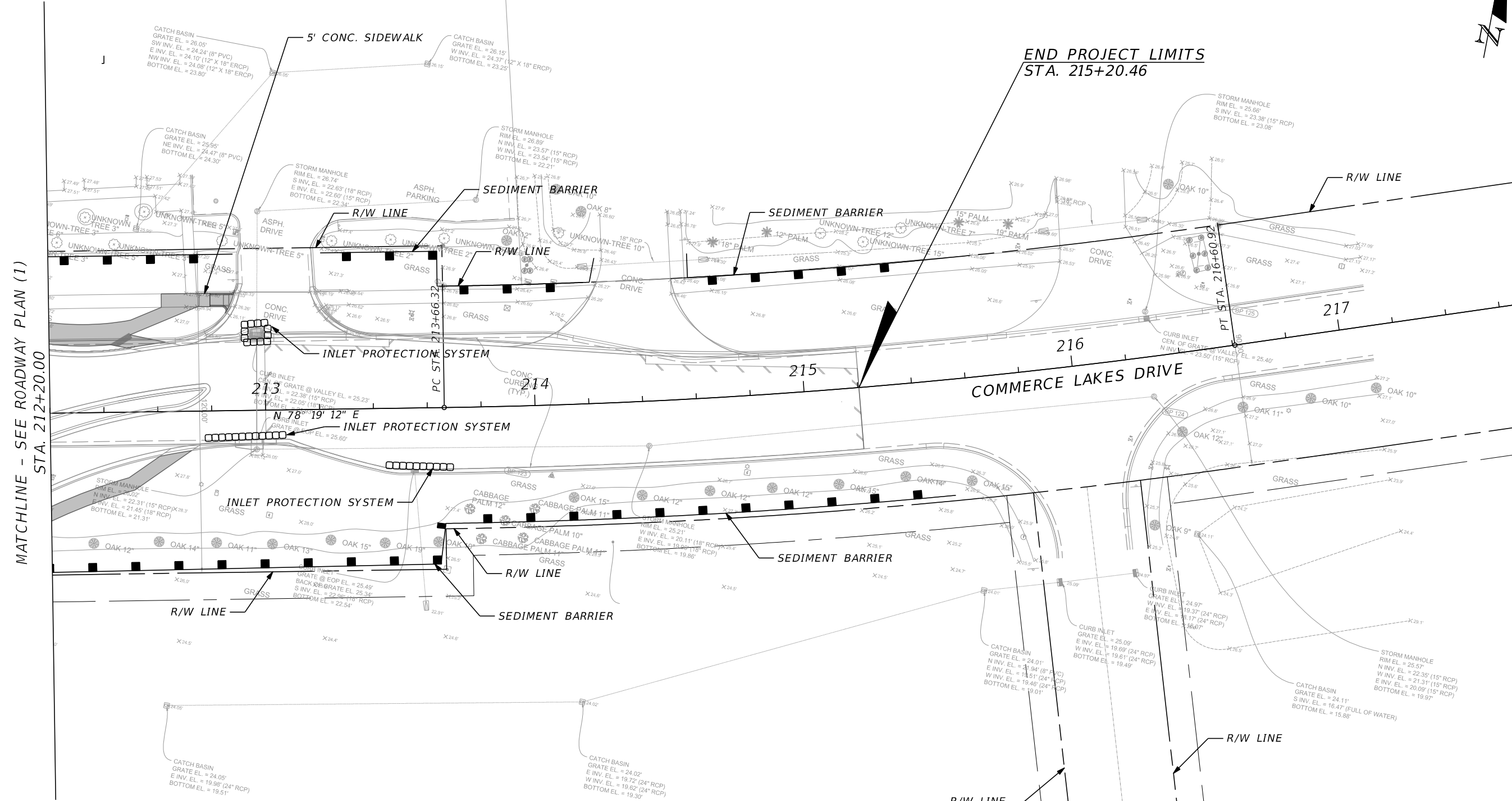
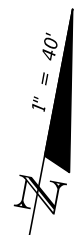
CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDAABOUT)
EROSION CONTROL (3)
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- LEGEND**
- X TREE TO BE REMOVED
 - MILLING LIMITS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

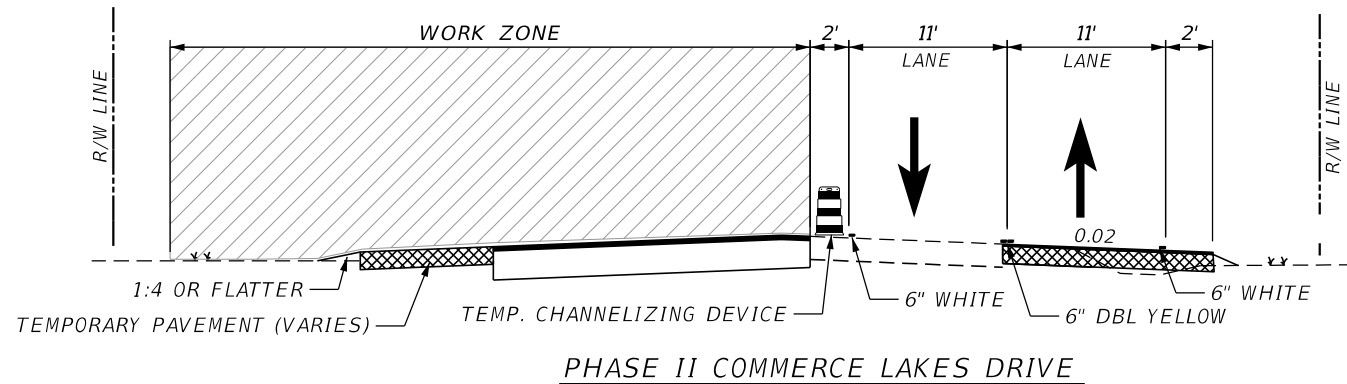
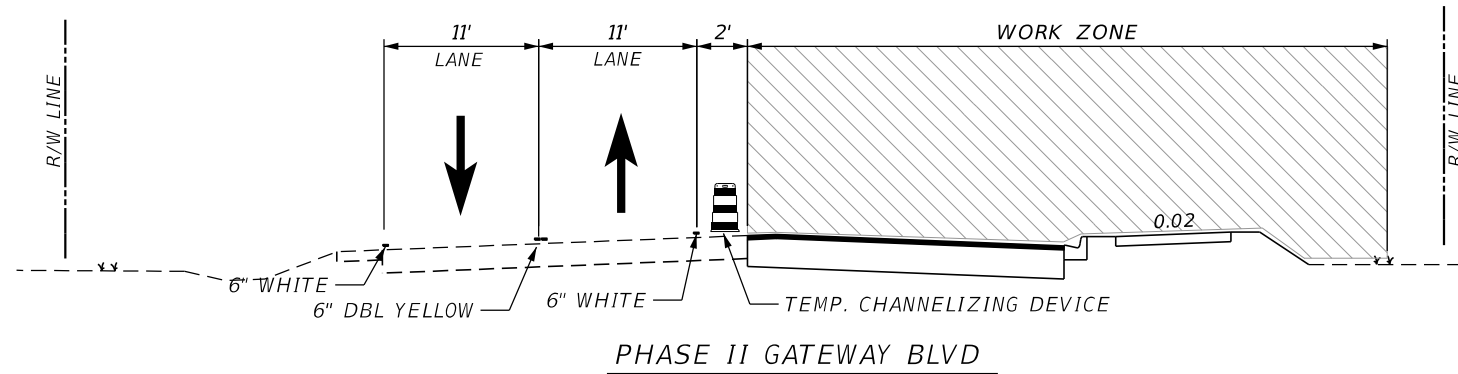
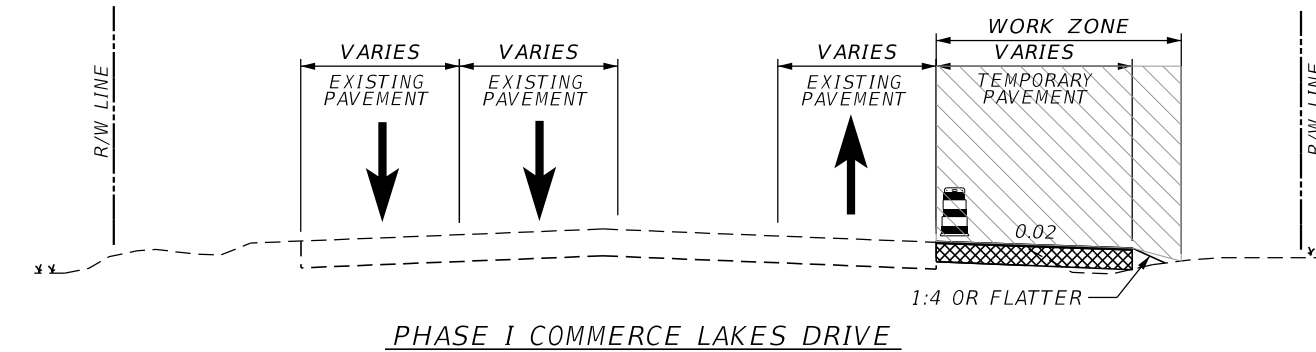
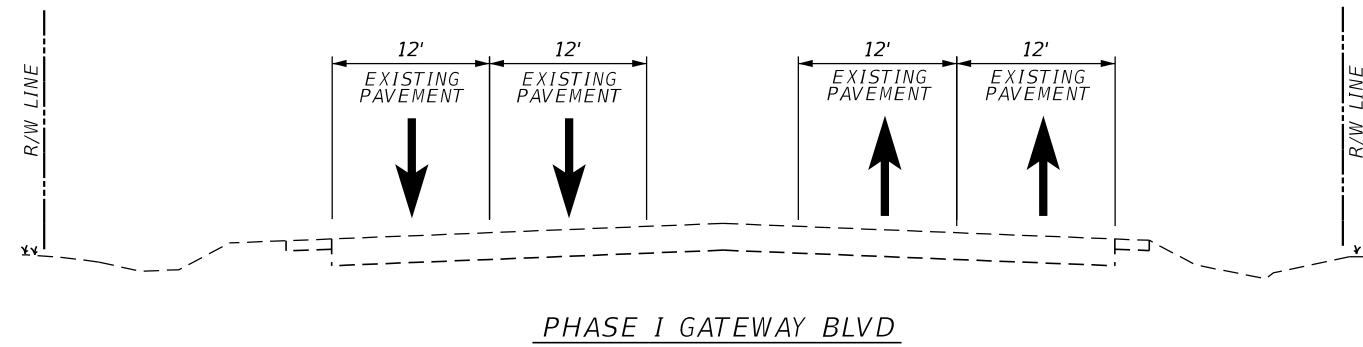
CHRISTOPHER J. KNOX, P.E.
 P.E. LICENSE NUMBER 67350
 CARDNO, INC.
 380 PARK PLACE BOULEVARD, SUITE 300
 CLEARWATER, FLORIDA 33759
 CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
 INTERSECTION CONTROL (ROUNDBABOUT)
EROSION CONTROL (4)
 (COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	47

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CONSTRUCTION PHASING NOTES

PHASE I - OPERATIONS ARE TO INSTALL TEMPORARY PAVEMENT FOR PHASE II.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE I CONSTRUCTION.
3. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE II.

PHASE II - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD EAST SIDE (NB) AND COMMERCE LAKES DRIVE NORTH SIDE (WB) NEW ALIGNMENT ALONG WITH TEMPORARY PAVEMENT.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE II CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD EAST SIDE (NB) AND COMMERCE LAKES DRIVE NORTH SIDE (WB) NEW ALIGNMENT. THIS WILL INCLUDE LANES, SHOULDERS, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND ROUNDABOUT.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.
5. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE III.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

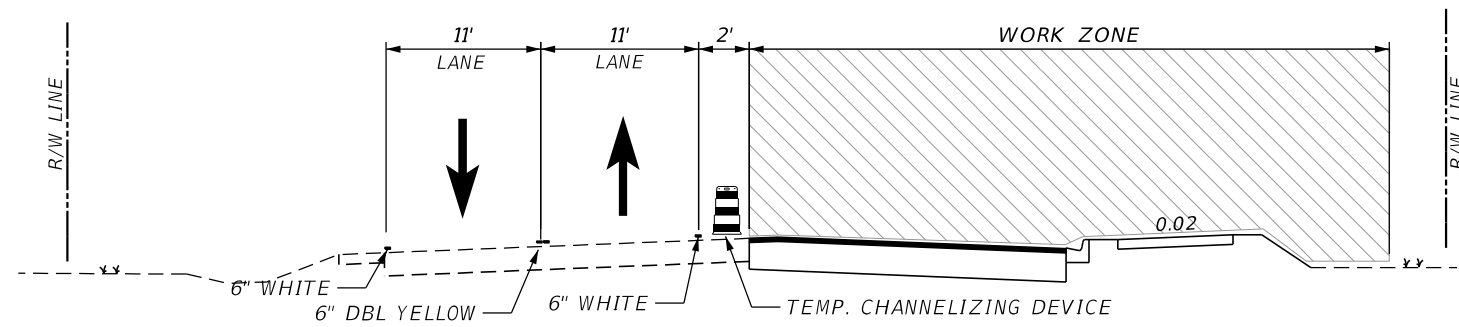
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



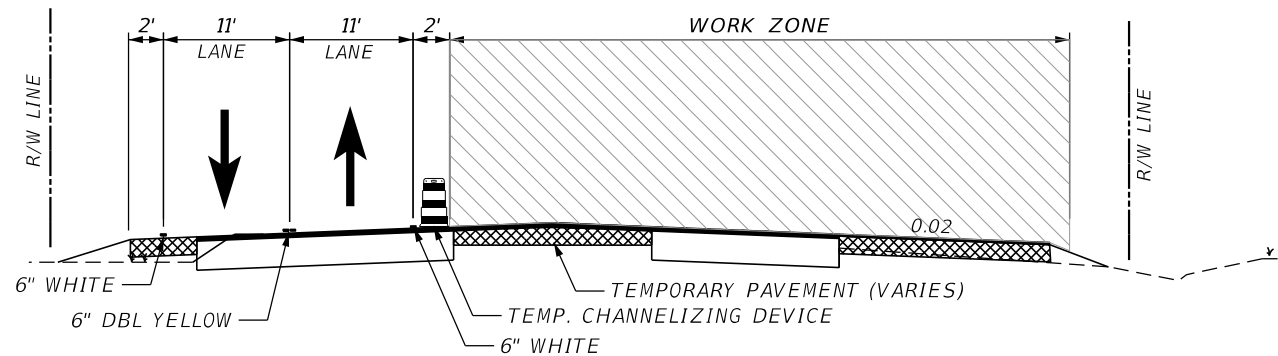
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)
TEMPORARY TRAFFIC CONTROL

CIP NO.	SHT. NO.
200671	48

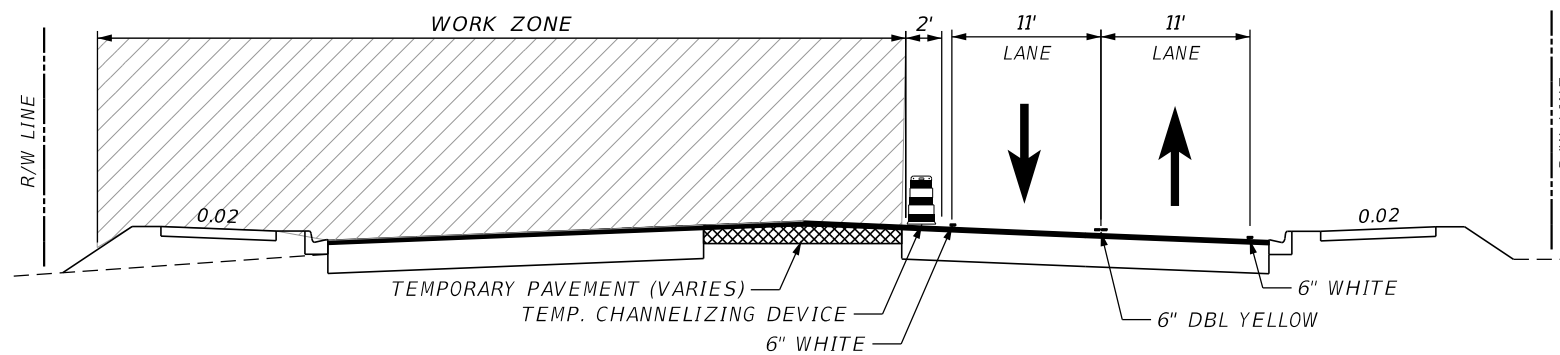
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



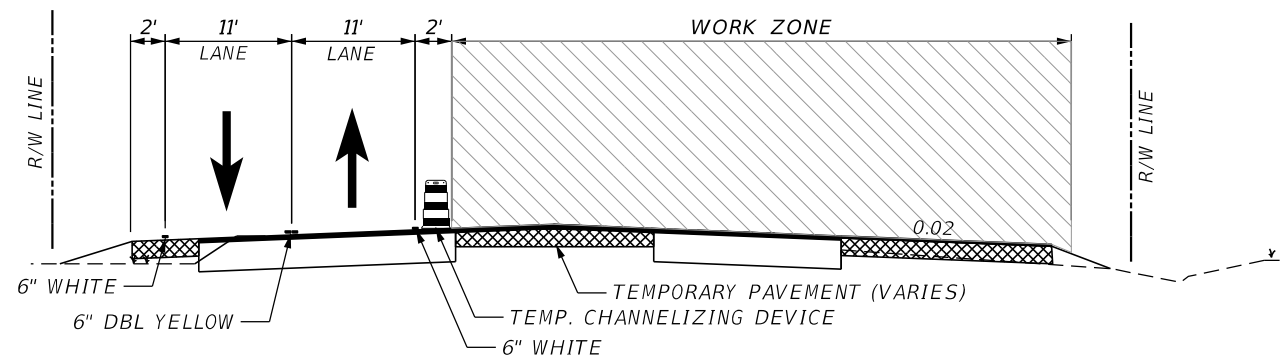
PHASE III GATEWAY BLVD



PHASE III COMMERCE LAKES DRIVE



PHASE IV GATEWAY BLVD



PHASE IV COMMERCE LAKES DRIVE

CONSTRUCTION PHASING NOTES

PHASE III - OPERATIONS ARE TO CONSTRUCT COMMERCE LAKES DRIVE SOUTH SIDE (EB) NEW ALIGNMENT ALONG WITH TEMPORARY PAVEMENT.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE III CONSTRUCTION.
3. CONSTRUCT COMMERCE LAKES DRIVE SOUTH SIDE (EB) NEW ALIGNMENT. THIS WILL INCLUDE LANES, SHOULDERS, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND ROUNDABOUT.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.
5. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE IV.

PHASE IV - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD WEST SIDE (SB) NEW ALIGNMENT INCLUDING ADJACENT DRIVEWAYS AND DRAINAGE.

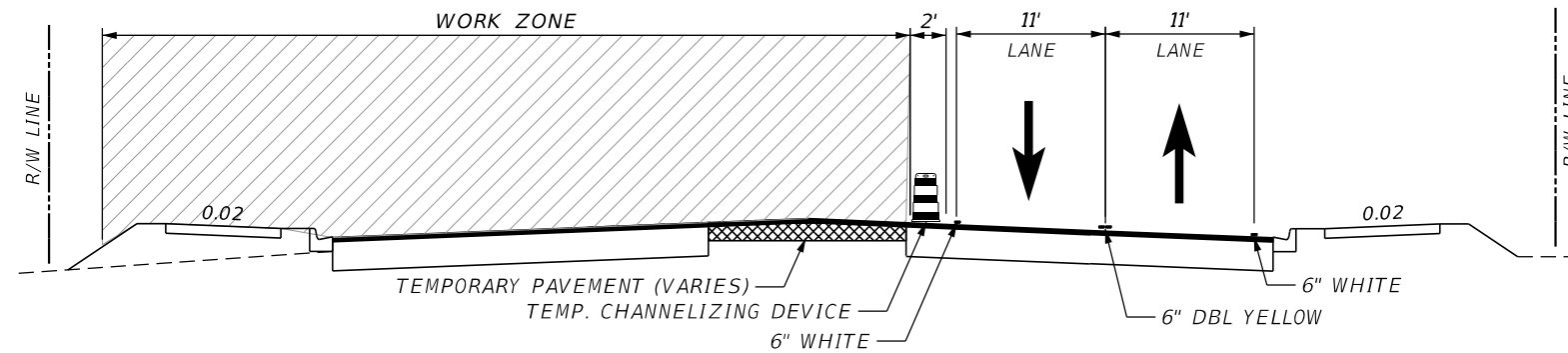
1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE IV CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD WEST SIDE (SB). THIS WILL INCLUDE LANES, SHOULDERS, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND INCLUDING IRRIGATION.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.
5. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE V.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

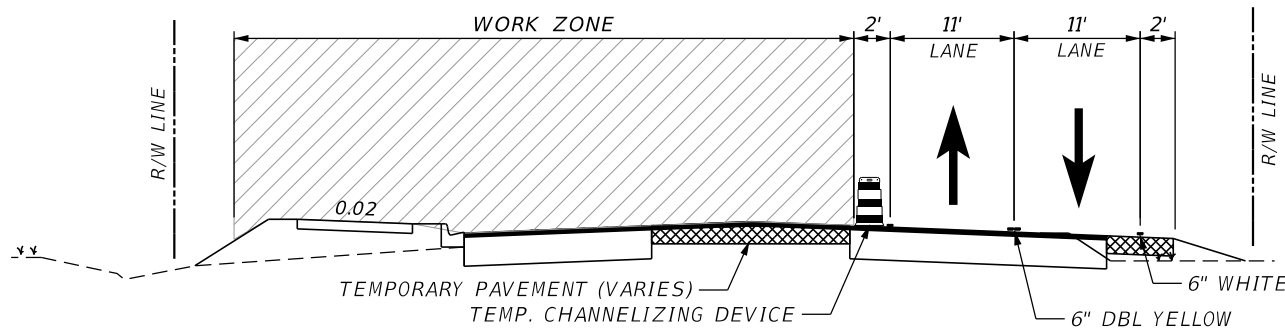
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



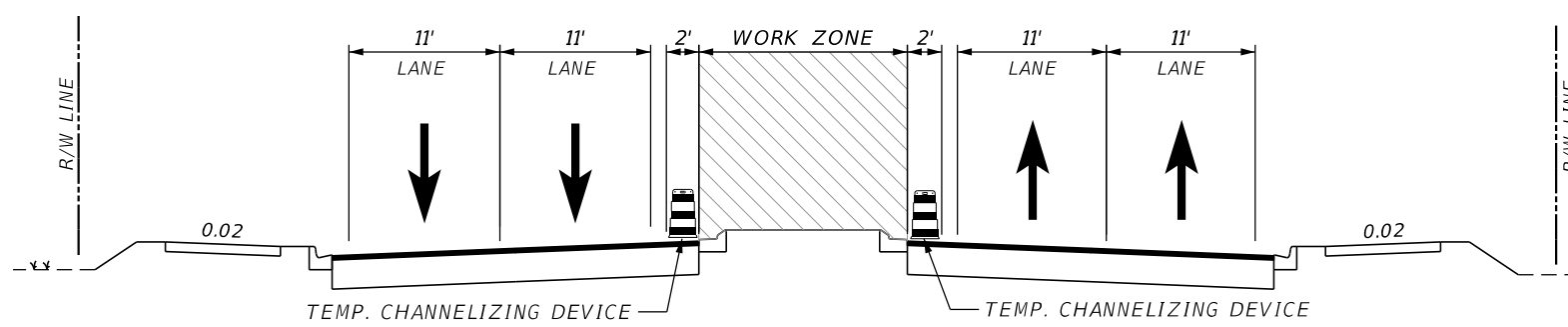
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
TEMPORARY TRAFFIC CONTROL		200671	49



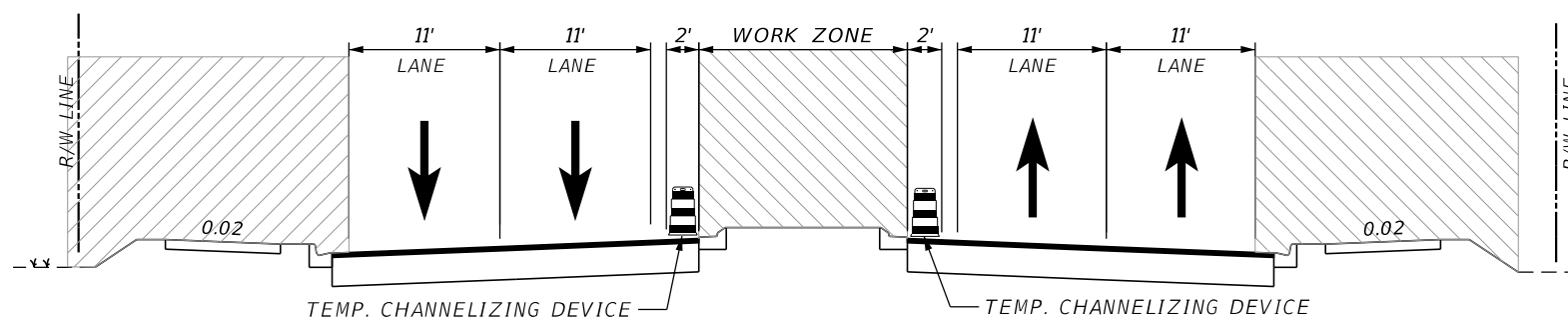
PHASE V GATEWAY BLVD



PHASE V COMMERCE LAKES DRIVE



PHASE VI GATEWAY BLVD AND COMERCE LAKES DRIVE



PHASE VI GATEWAY BLVD AND COMERCE LAKES DRIVE

CONSTRUCTION PHASING NOTES

PHASE V - OPERATIONS ARE TO CONSTRUCT THE NORTHWEST CORNER OF THE ROUNDABOUT, SIDEWALKS, DRIVEWAYS, DRAINAGE, AND CURB AND GUTTER.

1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE IV CONSTRUCTION.
3. CONSTRUCT REMAINING QUADRANT OF ROUNDABOUT.
4. DEMOLISH TEMPORARY PAVEMENT FROM PHASE IV.

PHASE VI - OPERATIONS ARE TO MOVE TRAFFIC ONTO NEWLY CONSTRUCTED ROADWAY AND CONSTRUCT TRAFFIC SEPARATORS, THE CENTER OF THE ROUNDABOUT, COMPLETE ANY REMAINING SIDEWALKS ON COMMERCE LAKES DRIVE AND REMOVE TEMPORARY PAVEMENT FROM THE PREVIOUS PHASES OF CONSTRUCTION.

1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH INDEX NO. 102-601, 102-602 AND 102-603.
2. MILL AND RESURFACE GATEWAY BLVD AND COMMERCE LAKES DRIVE.
3. MOVE CHANNELIZING DEVICES AND SHIFT TRAFFIC TO FINAL TRAFFIC PATTERN ON NEWLY CONSTRUCTED ROADWAYS. CONSTRUCT SPLITTER ISLANDS, REMAINING SIDEWALK ON COMMERCE LAKES DRIVE, AS WELL AS CENTER OF THE ROUNDABOUT.
4. REMOVE TEMPORARY PAVEMENT FROM PHASE V.
4. COMPLETE INSTALLATION OF PERMANENT SIGNING WITHIN PROJECT LIMITS.
5. COMPLETE FRICTION COURSE WITHIN PROJECT LIMITS.
6. COMPLETE PLACEMENT OF THERMOPLASTIC PAVEMENT MARKINGS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

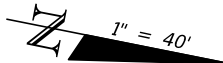
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



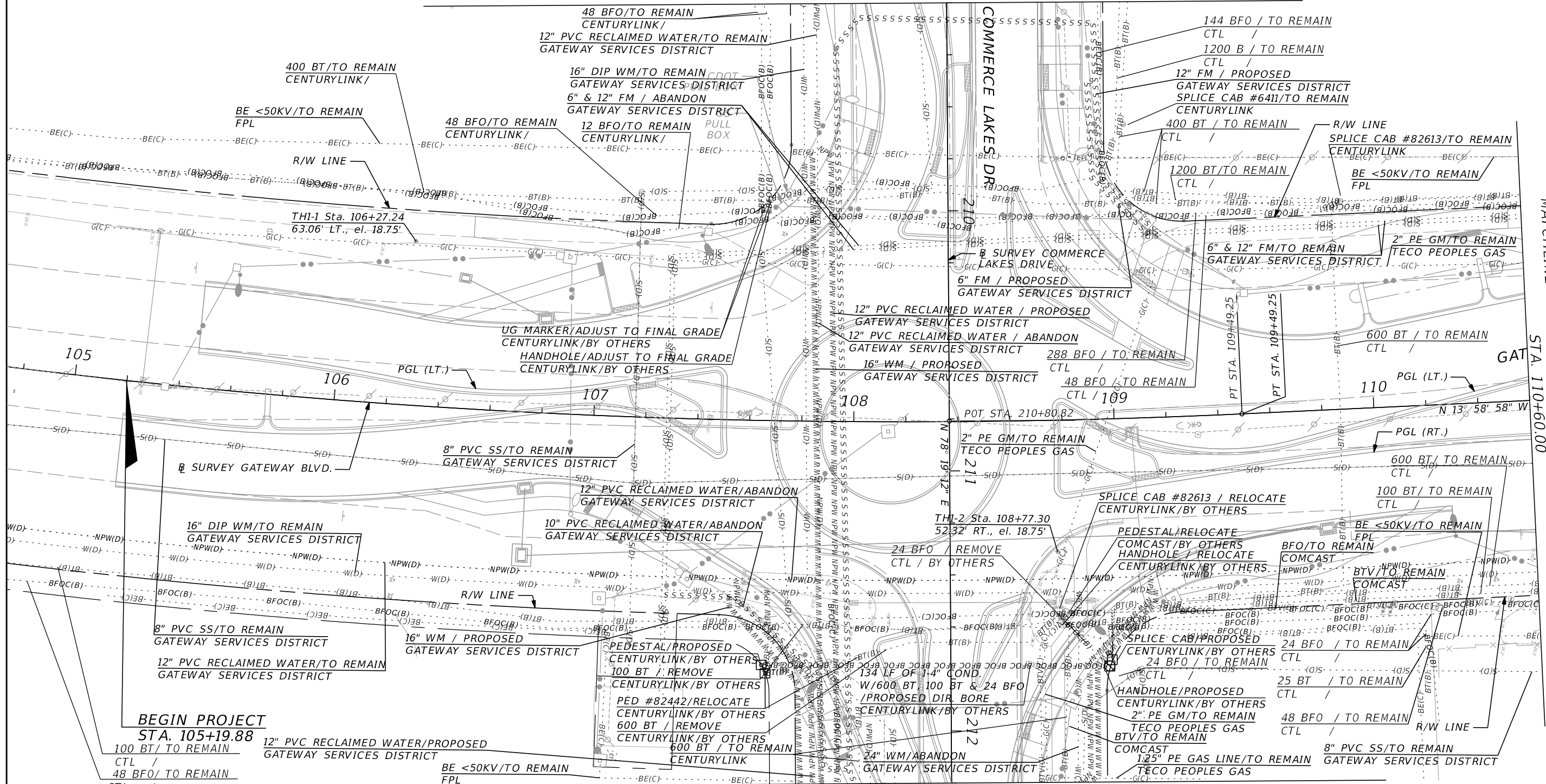
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)
TEMPORARY TRAFFIC CONTROL

CIP NO.	SHT. NO.
200671	50

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (3)
STA. 209+20.00



MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (4)
STA. 212+20.00

MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (2)
STA. 110+60.00

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

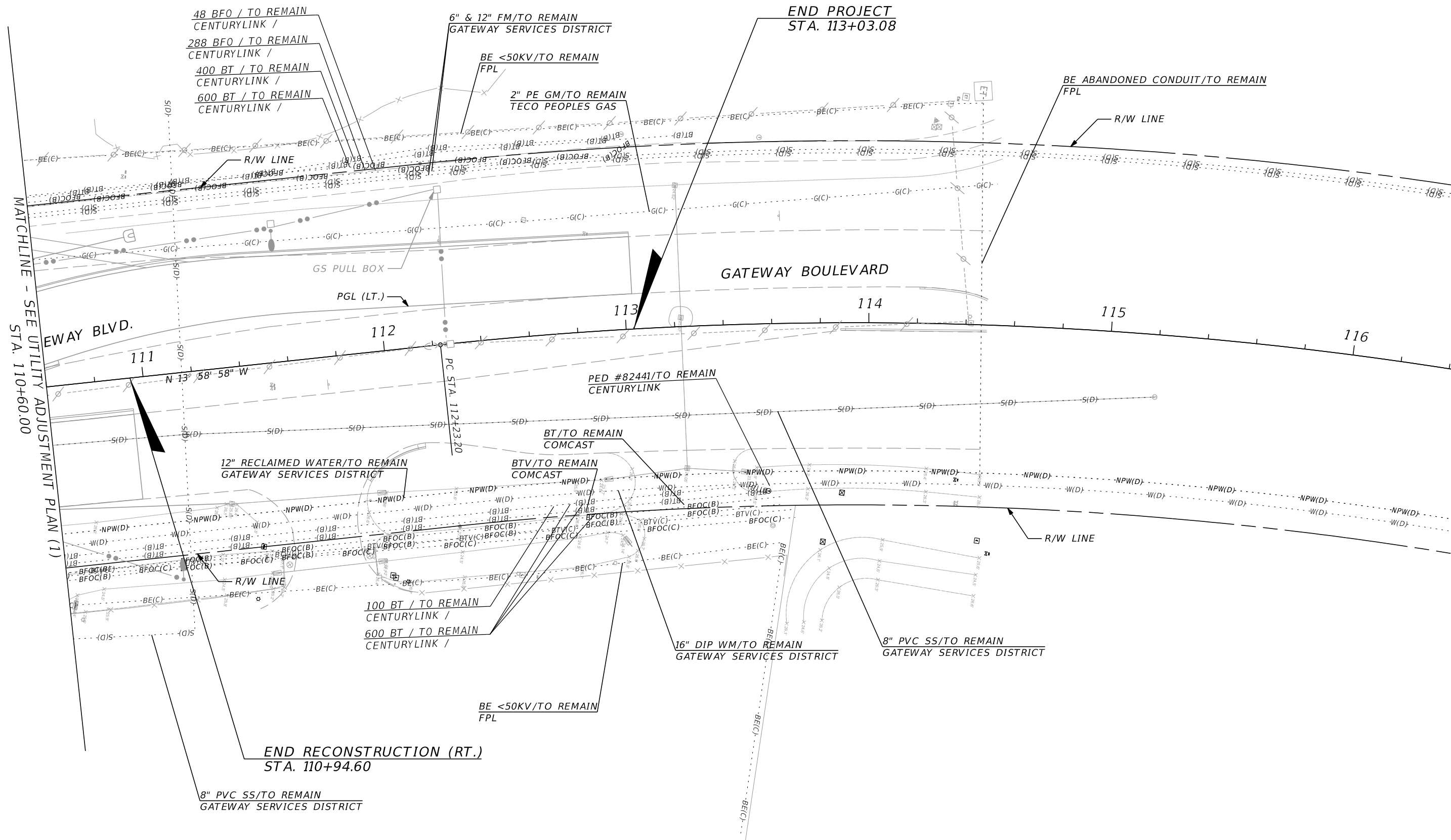
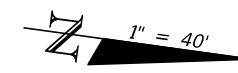
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
UTILITY ADJUSTMENT PLAN (1)
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	51



MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (1)
STA. 110+60.00

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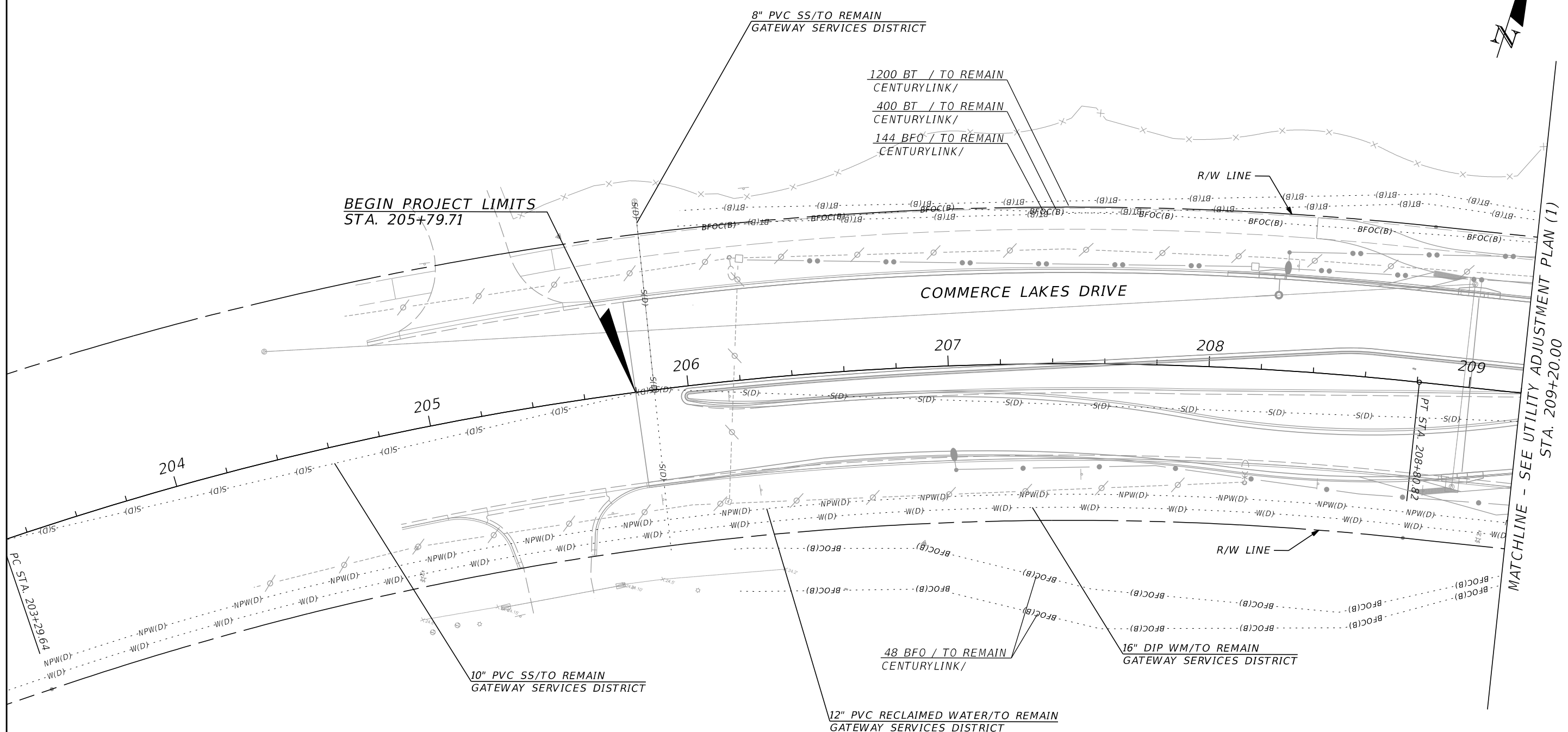
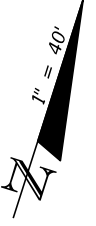
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
UTILITY ADJUSTMENT PLAN (2)
(GATEWAY BOULEVARD)

CIP NO.	SHT. NO.
200671	52



MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (1)
STA. 209+20.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBABOUT)
UTILITY ADJUSTMENT PLAN (3)
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	53

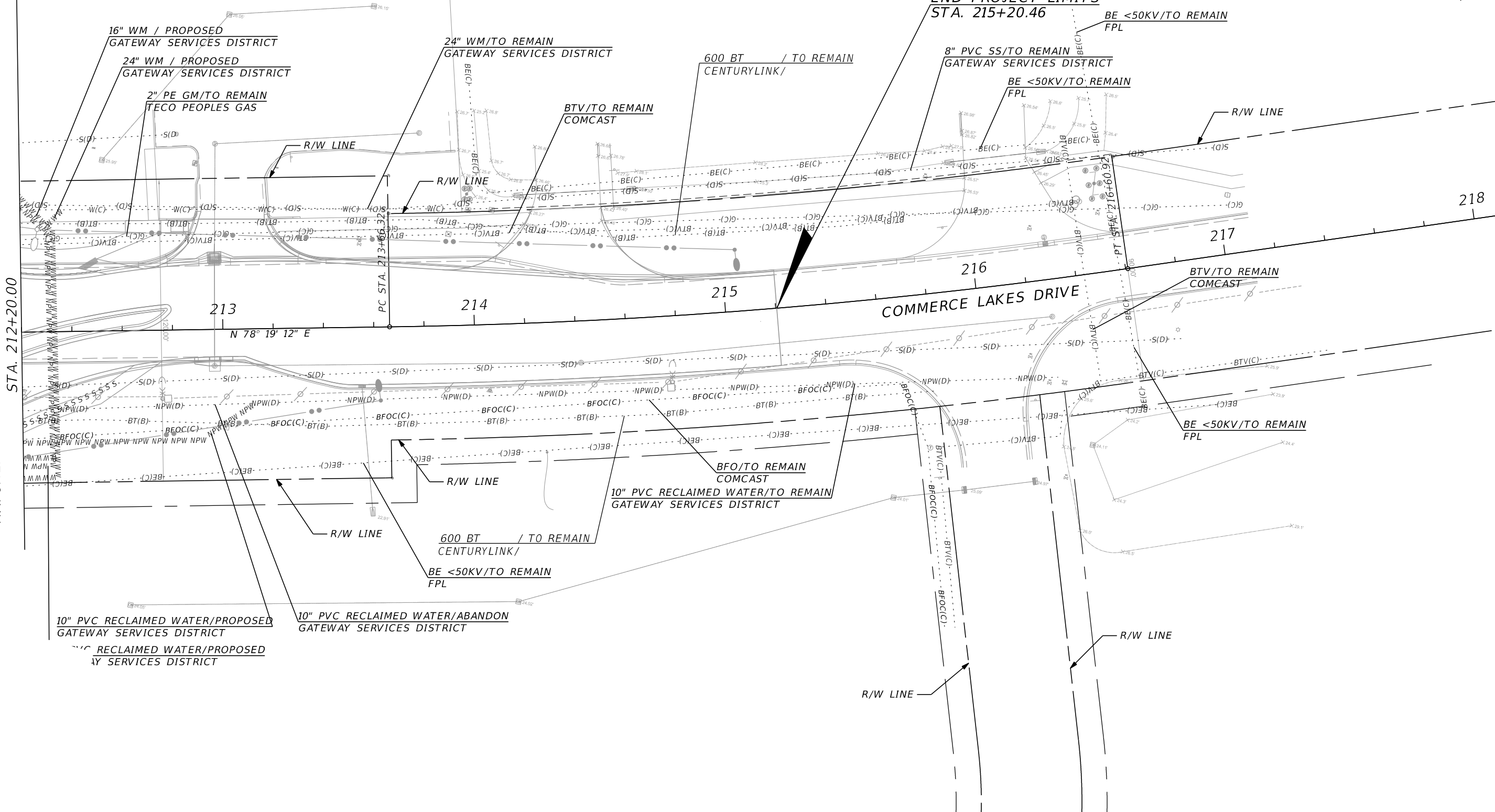
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE - SEE UTILITY ADJUSTMENT PLAN (1)

STA. 212+20.00

END PROJECT LIMITS
STA. 215+20.46



218

217

216

215

214

213

N 78° 19' 12" E

PC STA. 213+60.32

PT STA. 216+00.92

COMMERCE LAKES DRIVE

BE <50KV/TO REMAIN
FPL

BFO/TO REMAIN
COMCAST

10" PVC RECLAIMED WATER/TO REMAIN
GATEWAY SERVICES DISTRICT

600 BT / TO REMAIN
CENTURYLINK/

BE <50KV/TO REMAIN
FPL

10" PVC RECLAIMED WATER/PROPOSED
GATEWAY SERVICES DISTRICT

10" PVC RECLAIMED WATER/ABANDON
GATEWAY SERVICES DISTRICT

10" PVC RECLAIMED WATER/PROPOSED
GATEWAY SERVICES DISTRICT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



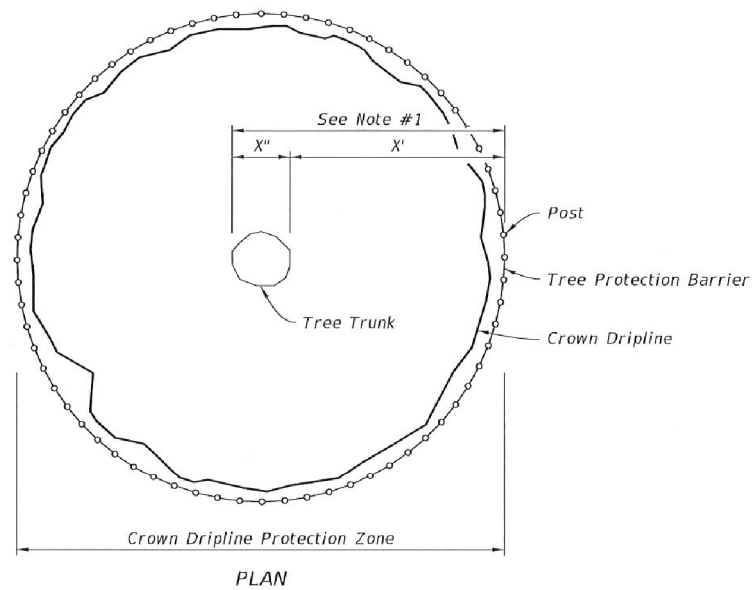
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
UTILITY ADJUSTMENT PLAN (4)
(COMMERCE LAKES DRIVE)

CIP NO.	SHT. NO.
200671	54

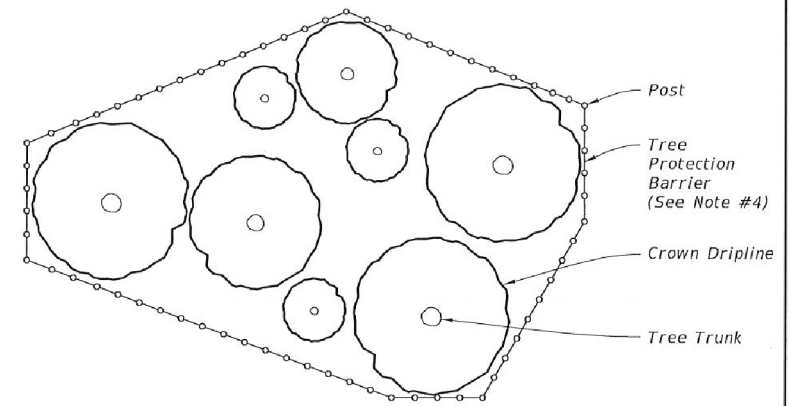
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES:

1. Crown Dripline Protection Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.
3. Install all tree protection prior to commencement of construction and remove when directed by the engineer. Maintain protection at all times.
4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
6. See plans for any additional requirements or modifications within the tree protection area.
7. Place weather resistant sign every 50' along the barrier, with 6" minimum text height and provide text in English and Spanish. Sign should read "Keep Out Tree Protection Area".
8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this Index.

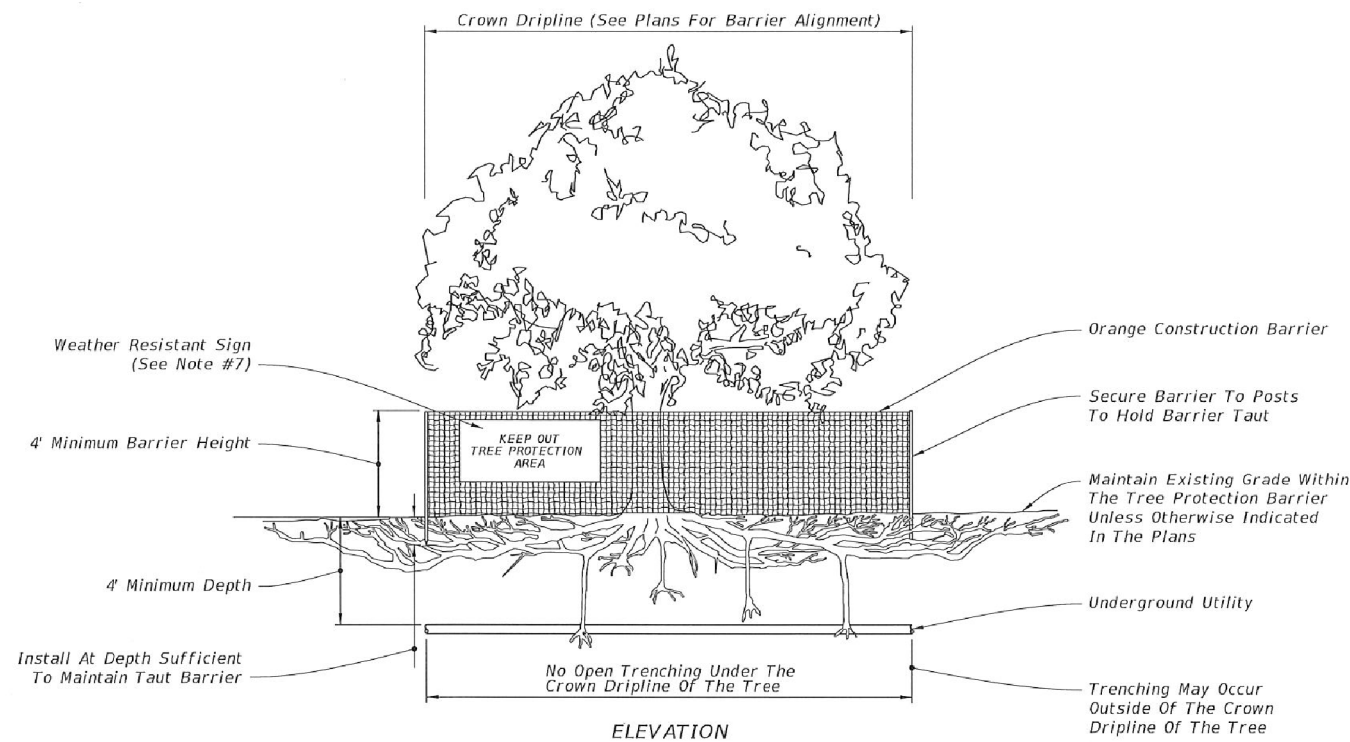


PLAN



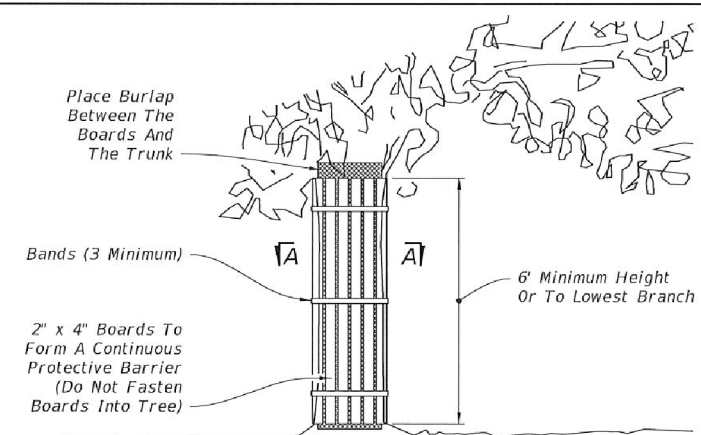
PLAN

PROTECTION BARRIER FOR TREE GROUPINGS

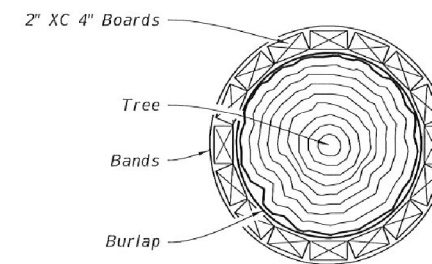


ELEVATION

TREE PROTECTION BARRIER



ELEVATION



SECTION A-A

NOTES:

1. Install trunk protection when Tree Protection Barrier can not be reasonably erected.
2. See Selective Clearing and Grubbing Plan for location of trunk protection.
3. Adjust bands to allow tree growth (inspect quarterly to prevent girdling).

TRUNK PROTECTION

10/11/2016 9:24:43 AM

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	TREE PROTECTION AND PRESERVATION	INDEX NO. 542	SHEET NO. 1 of 1
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REVISIONS				CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO. 200671	SHT. NO. 55
DATE	DESCRIPTION	DATE	DESCRIPTION			TREE PROTECTION DETAILS			

PAY ITEM NOTES:

110-2-2 SELECTIVE CLEARING AND GRUBBING INCLUDES THE COST OF TREE REMOVAL, TREE TRIMMING & ROOT PRUNING BY PROFESSIONAL ARBORISTS AND REMOVAL OF DEBRIS AT LOCATIONS WHERE TREE BRANCHES OR SHRUBS CONFLICT WITH THE PROPOSED LIGHTING POLES. TREES TO BE REMOVED SHOWN ON EROSION CONTROL SHEETS.

570-1-2 EXISTING SOD IS MOSTLY ST. AUGUSTINE, MATCH EXISTING.


527-2 ALL DETECTABLE WARNINGS SHALL BE WET SET.

919-528 ALL DIRECTIONAL INDICATORS SHALL BE WET SET.

*** ROOT CONTROL BARRIER SHALL BE INSTALLED TO CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE MANUFACTURER, TO A MINIMAL DEPTH OF 12" BELOW FINISH GRADE OF ADJACENT SIDEWALK OR CURBING. ROOT BARRIER SHALL BE FREE OF FOLDS AND TEARS TO PRODUCE AN EFFECTIVE BARRIER BETWEEN CONCRETE CONSTRUCTION AND TREES. INSTALLATION SHALL BE PERPENDICULAR TO FINISH GRADE AND ALL EDGES SHALL BE BELOW FINISH GRADE ONCE RESTORATION OF THE ADJACENT DISTURBED AREA HAS BEEN COMPLETED. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A MANUFACTURER'S CERTIFICATE STATING THE MANUFACTURER'S NAME, PRODUCT NAME, STYLE NUMBER, CHEMICAL COMPOSITION AND OTHER PERTINENT INFORMATION TO FULLY DESCRIBE THE PRODUCT. THE CONTRACTOR SHALL AFFIX AN APPLICABLE MSDS TO THE OUTSIDE OF EACH SHIPPING CONTAINER FOR THE PRODUCT.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS	1		1		365 DA	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES			
						SUMMARY OF QUANTITIES		200671	SQ-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104	10 3	0104	18		
			LF		EA			
P	F	P	F					
104+94.50 to 107+43.58	LT		242.5					
105+03.76 to 107+50.10	RT		252.8					
107+43.67 to 107+76.34	LT		50.1					
107+50.10 to 107+79.64	RT		51.8					
108+92.58 to 109+23.42	RT		49.3					
108+96.94 to 109+30.18	LT		51.3					
109+23.42 to 109+49.22	RT		26.5					
109+30.18 to 109+49.22	LT		18.5					
109+49.22 to 111+52.39	RT		203.2					
109+49.22 to 112+23.17	LT		274.0					
111+87.21 to 113+45.47	RT		152.7					
112+23.17 to 113+60.78	LT		143.9					
198+19.15 to 201+03.28	RT		292.4					
201+03.28 to 202+42.79	RT		139.5					
202+73.10 to 205+23.20	RT		241.3					
205+46.81 to 208+80.82	LT		349.3					
205+58.72 to 208+80.82	RT		307.4					
208+80.82 to 209+74.55	LT		93.7					
208+80.82 to 209+74.66	RT		93.8					
211+84.66 to 212+88.58	LT		103.9					
211+89.14 to 213+66.32	RT		190.3					
213+21.11 to 213+64.32	LT		56.2					
213+64.32 to 214+21.87	LT		56.5					
213+66.32 to 215+52.44	RT		189.6					
214+21.87 to 214+23.99	LT		9.2					
214+59.13 to 214+59.27	LT		8.9					
214+59.13 to 215+48.51	LT		87.6					
105+21.66 to 105+29.58	LT/RT				1			
105+22.41 to 105+30.49	LT				1			
105+65.60 to 105+85.83	RT				1			
106+43.90 to 106+51.62	LT				1			
106+69.85 to 106+80.30	RT				1			
106+69.96 to 106+80.28	RT				1			
106+74.47 to 106+85.15	LT				1			
109+67.55 to 109+92.82	RT				1			
109+88.45 to 110+11.00	LT				1			
110+33.80 to 110+59.40	LT				1			
111+27.28 to 111+34.94	RT				1			
113+16.71 to 113+27.39	RT				1			
113+17.47 to 113+27.74	LT/RT				1			
113+18.15 to 113+28.08	LT				1			
208+09.90 to 208+36.73	LT				1			
208+84.57 to 209+13.38	RT				1			
208+85.16 to 209+15.60	LT				1			
212+77.43 to 213+07.75	RT				1			
212+92.57 to 213+01.26	LT				1			
213+44.43 to 213+70.42	RT				1			
SUB-TOTAL:			3736.2		20			
TOTAL:			3736		20			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
SUMMARY OF QUANTITIES

CIP NO.	SHT. NO.
200671	SQ-2


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SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS	
					0107 1				0107 2						
	AREA ID				CYCLES	AREA		AREA ID	CYCLES	AREA					
						AC/CYCLE	TOTAL (AC)			AC/CYCLE	TOTAL (AC)				
P	F	P	F	P	F										
ALL	105+18.49 to 107+59.72	RT		30	31401	12	0.2	2.47							
ALL	105+19.88 to 107+51.52	LT/RT		30	20841	12	0.2								
ALL	105+46.41 to 108+03.18	LT		30	31392	12	0.2								
ALL	107+87.14 to 108+40.99	LT/RT		30	20883	12	0.1								
ALL	108+60.74 to 109+25.82	LT		30	20874	12	0.0								
ALL	108+76.77 to 113+03.08	LT/RT		30	20858	12	0.3								
ALL	108+77.91 to 113+03.08	LT		30	31363	12	0.3								
ALL	108+75.84 to 110+63.87	RT		30	31435	12	0.1								
ALL	205+79.38 to 209+81.05	LT		30	31374	12	0.2								
ALL	205+79.38 to 209+89.21	RT		30	31382	12	0.3								
ALL	211+38.61 to 215+20.46	RT		30	31410	12	0.3								
ALL	211+59.13 to 213+41.02	LT/RT		30	20826	12	0.1								
ALL	211+71.03 to 215+20.46	LT		30	31426	12	0.2								
ALL	105+18.49 to 107+59.72	RT		30					31401	12	0.2	2.47			
ALL	105+19.88 to 107+51.52	LT/RT		30					20841	12	0.2				
ALL	105+46.41 to 108+03.18	LT		30					31392	12	0.2				
ALL	107+87.14 to 108+40.99	LT/RT		30					20883	12	0.1				
ALL	108+60.74 to 109+25.82	LT		30					20874	12	0.0				
ALL	108+76.77 to 113+03.08	LT/RT		30					20858	12	0.3				
ALL	108+77.91 to 113+03.08	LT		30					31363	12	0.3				
ALL	108+75.84 to 110+63.87	RT		30					31435	12	0.1				
ALL	205+79.38 to 209+81.05	LT		30					31374	12	0.2				
ALL	205+79.38 to 209+89.21	RT		30					31382	12	0.3				
ALL	211+38.61 to 215+20.46	RT		30					31410	12	0.3				
ALL	211+59.13 to 213+41.02	LT/RT		30					20826	12	0.1				
ALL	211+71.03 to 215+20.46	LT		30					31426	12	0.2				
SUB-TOTAL:					2.47				SUB-TOTAL:					2.47	

SUMMARY OF REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
								AREA (AC)	P	F	P	F		
110-2-2	SELECTIVE CLEARING AND GRUBBING	105+18.49 TO 215+20.46	RT	20653			LS	0.480			1		1.91 TOTAL AC	
		105+46.41 TO 205+79.38	LT/RT	20675				0.456					SOUTHEAST QUADRANT	
		205+79.38 TO 113+03.08	LT	20691				0.585					SOUTHWEST QUADRANT	
		215+20.46 TO 110+94.60	LT/RT	25653				0.390					NORTHWEST QUADRANT	
													NORTHEAST QUADRANT	
110-4-10	REMOVAL OF EXISTING CONCRETE	106+50.00 TO 107+83.84	LT	25869			SY		119.2		1178		SIDEWALK	
		108+96.52 TO 110+54.85	LT	25925					139.5				SIDEWALK	
		208+37.55 TO 210+21.31	LT	25938					163.1				SIDEWALK	
		211+22.31 TO 212+91.09	LT	25857					96.5				SIDEWALK	
		107+34.85 TO 107+78.51	LT/RT	30483					7.6				MEDIAN CURB	
		108+92.67 TO 109+71.05	LT/RT	30401					10.2				MEDIAN CURB	
		205+79.38 TO 209+81.12	LT	30515					91.2				CURB	
		205+80.06 TO 209+89.65	RT	30499					89.1				CURB	
		205+96.96 TO 209+23.97	LT/RT	30627					190.0				MEDIAN CURB	
		211+18.70 TO 215+20.46	LT	30418					63.4				CURB	
		211+29.15 TO 213+03.81	RT	30459					32.8				CURB	
		212+78.30 TO 213+30.28	LT	30543					58.2				DRIVEWAY	
		214+09.50 TO 214+83.96	LT	30553					117.7				DRIVEWAY	


<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915</p>		<p align="center">GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)</p>	<p>CIP NO. 200671</p>	<p>SHT. NO. SQ-3</p>
DATE	DESCRIPTION	DATE	DESCRIPTION													
				<p>SUMMARY OF QUANTITIES</p>												

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	REGULAR EXCAVATION				
	MAINLINE GATEWAY BLVD.	2142			
	MAINLINE COMMERCE LAKES DR.	747			
	TOTAL REGULAR EXCAVATION	2889			
120-6	EMBANKMENT				
	MAINLINE GATEWAY BLVD.	746			
	MAINLINE COMMERCE LAKES DR.	119			
	TOTAL EMBANKMENT	865			

EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.


SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0160 4	TYPE B STABILIZATION	105+19.88 TO 113+03.08	GATEWAY & INTERSECTION	LT/RT	44233	SY	5181		7556			
		107+71.36 TO 108+56.72	TRUCK APRON	LT/RT	34881		403					
		205+99.27 TO 206+36.82	COMMERCE MEDIAN WIDENING (WEST)	RT	35052		28					
		207+64.64 TO 210+08.25	COMMERCE LAKES DR (WEST)	RT	35439		383					
		205+05.57 TO 210+23.31	COMMERCE LAKES DR (WEST)	LT	44349		687					
		211+49.88 TO 213+46.29	COMMERCE LAKES DR (EAST)	LT/RT	44377		820					
		214+41.70 TO 215+20.46	COMMERCE WIDENING (EAST)	LT	35058		53.77					
285 709	OPTIONAL BASE, BASE GROUP 09	105+19.88 TO 113+03.08	GATEWAY & INTERSECTION	LT/RT	44664	SY	4455		5996			
		205+99.27 TO 206+36.82	COMMERCE MEDIAN WIDENING (WEST)	RT	44521		17					
		207+64.64 TO 210+08.25	COMMERCE LAKES DR (WEST)	RT	35339		287					
		208+05.57 TO 210+23.74	COMMERCE LAKES DR (WEST)	LT	44438		567					
		211+50.46 TO 213+46.29	COMMERCE LAKES DR (EAST)	LT/RT	44462		636					
		214+41.70 TO 215+20.46	COMMERCE WIDENING (EAST)	LT	44510		34					
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	111+50.00 TO 113+03.08	SOUTHBOUND GATEWAY BLVD	LT	45807	SY	374		5250			
		198+39.38 TO 205+79.74	EASTBOUND COMMERCE LAKES DR	RT	45790		2407				FOR S&PM MERGE	
		205+79.38 TO 208+05.57	W. COMMERCE LAKES DR	LT/RT	45766		1501					
		213+00.00 TO 215+20.46	E. COMMERCE LAKES DR	LT/RT	45751		969					
334 1 13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC LEVEL C, , FC-12.5 (2.5")	105+19.88 TO 113+03.08	GATEWAY & INTERSECTION	LT/RT	45596	TN	608.2		1185.9			
		205+99.27 TO 206+36.82	COMMERCE MEDIAN WIDENING (WEST)	RT	45295		2.4					
		207+64.64 TO 210+08.25	COMMERCE LAKES DR (WEST)	RT	35595		39.5					
		208+05.57 TO 210+23.74	COMMERCE LAKES DR (WEST)	LT	45571		78.0					
		211+50.46 TO 213+46.29	COMMERCE LAKES DR (EAST)	LT/RT	45519		87.5					
		214+41.70 TO 215+20.46	COMMERCE WIDENING (EAST)	LT	45560		4.6					
		111+50.00 TO 113+03.08	SOUTHBOUND GATEWAY BLVD	LT			7.6				OVERBUILD	
		205+79.38 TO 209+50.52	W. COMMERCE LAKES DR	LT/RT			148.4				OVERBUILD	
		213+00.00 TO 215+20.46	E. COMMERCE LAKES DR	LT/RT			59.9				OVERBUILD	
337 7 82	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC LEVEL C, FC-9.5, PG 76-22 (1")	105+19.88 TO 113+03.08	GATEWAY & INTERSECTION	LT/RT	48143	TN	262.9		815.6			
		198+39.38 TO 205+79.74	EASTBOUND COMMERCE LAKES DR	RT	35743		132.4				FOR S&PM MERGE	
		205+79.38 TO 210+23.74	W. COMMERCE LAKES DR	LT/RT	48229		130.3					
		211+50.46 TO 215+20.46	E. COMMERCE LAKES DR	LT/RT	48274		90.0					
350 30 13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	107+70.36 TO 108+57.69	TRUCK APRON	LT/RT	45816	SY	414		414			

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES			
								200671	SQ-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE	LENGTH	P	F								
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	105+19.89 to 105+52.94	RT		LF	33.2			33.2	2879			
		105+46.39 to 106+24.99	LT			78.5			78.5				
		105+52.94 to 105+70.06	RT			17.2			17.2				
		105+80.10 to 106+33.73	RT			54.2			54.2				
		106+24.99 to 107+04.71	LT			79.9			79.9				
		106+33.73 to 106+90.42	LT/RT			57.6			57.6				
		106+90.42 to 107+28.02	LT/RT			38.4			38.4				
		107+04.71 to 107+11.27	LT			6.7			6.7				
		107+11.27 to 107+12.72	LT			1.9			1.9				
		107+12.72 to 107+13.75	LT			4.1			4.1				
		107+13.75 to 107+17.89	LT			6.1			6.1				
		107+24.51 to 107+39.17	LT			15.9			15.9				
		107+24.58 to 107+46.02	LT			21.7			21.7				
		107+38.92 to 107+39.30	RT			1.9			1.9				
		107+38.92 to 107+41.28	RT			4.6			4.6				
		107+39.17 to 107+41.28	LT/RT			9.2			9.2				
		107+39.30 to 107+47.41	RT			9.7			9.7				
		107+46.02 to 107+48.69	LT			3.9			3.9				
		107+47.40 to 107+49.29	RT			3.0			3.0				
		107+48.69 to 107+48.87	LT/RT			20.3			20.3				
		107+48.87 to 107+49.29	RT			6.8			6.8				
		108+62.32 to 108+62.85	LT			8.9			8.9				
		108+62.32 to 108+63.37	LT			21.1			21.1				
		108+63.35 to 108+66.16	LT			5.2			5.2				
		108+63.35 to 109+01.46	LT			63.9			63.9				
		108+66.16 to 109+00.14	LT			39.1			39.1				
		108+78.61 to 108+79.15	LT/RT			10.0			10.0				
		108+78.61 to 108+80.50	LT			2.8			2.8				
		108+78.69 to 108+79.15	RT			20.3			20.3				
		108+78.69 to 108+81.22	RT			3.9			3.9				
		108+80.50 to 108+88.21	LT			9.0			9.0				
		108+81.22 to 109+05.11	RT			24.3			24.3				
		108+85.75 to 108+88.52	RT			8.2			8.2				
		108+85.75 to 108+88.74	RT			9.2			9.2				
		108+88.21 to 108+88.74	LT/RT			1.7			1.7				
		108+88.52 to 109+05.50	RT			18.6			18.6				
		108+98.61 to 108+98.86	RT			0.8			0.8				
		108+98.61 to 108+99.27	RT			1.8			1.8				
		108+98.86 to 109+00.55	RT			2.1			2.1				
		108+99.27 to 109+12.23	RT			14.0			14.0				
		109+00.51 to 109+01.54	LT			3.1			3.1				
		109+00.55 to 109+69.86	RT			71.2			71.2				
		109+05.11 to 109+05.74	RT			1.2			1.2				
		109+05.50 to 109+05.66	RT			0.3			0.3				
		109+05.66 to 109+05.74	RT			0.4			0.4				
		109+10.65 to 109+11.33	LT			2.0			2.0				
		109+10.77 to 109+29.18	LT			19.6			19.6				
		109+11.71 to 109+29.18	LT			19.7			19.7				
		109+12.23 to 109+16.08	RT			6.0			6.0				
		109+16.08 to 109+17.04	RT			4.5			4.5				

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915</p>	 <p>Lee County Southwest Florida DEPARTMENT OF TRANSPORTATION</p>	<p align="center">GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)</p> <p align="center">SUMMARY OF QUANTITIES</p>	<p>CIP NO. 200671</p>	<p>SHT. NO. SQ-6</p>
DATE	DESCRIPTION	DATE	DESCRIPTION													

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P		
		TYPE					LENGTH	P	F				
0520 1 7	CONCRETE CURB & GUTTER, TYPE E (CONT'D)	109+17.04 to 109+18.40	RT		LF	1.8			1.8				
		109+18.40 to 109+56.21	RT			38.3			38.3				
		109+56.21 to 110+74.65	RT			118.7			118.7				
		109+69.86 to 110+66.28	LT/RT			98.7			98.7				
		110+74.62 to 110+94.57	RT			20.0			20.0				
		205+99.89 to 206+00.27	RT			2.7			2.7				
		205+99.89 to 206+36.73	RT			36.9			36.9				
		206+00.27 to 206+31.14	RT			30.8			30.8				
		206+31.14 to 206+81.17	RT			49.9			49.9				
		206+36.73 to 206+70.75	RT			33.8			33.8				
		206+70.75 to 207+92.29	RT			120.8			120.8				
		206+81.17 to 207+09.74	RT			28.5			28.5				
		207+09.75 to 208+48.76	LT/RT			139.6			139.6				
		207+92.29 to 209+39.01	RT			147.1			147.1				
		208+48.75 to 208+62.21	LT			13.6			13.6				
		208+62.21 to 208+81.18	LT			19.1			19.1				
		208+81.18 to 209+31.18	LT			50.0			50.0				
		209+31.18 to 209+41.92	LT			10.7			10.7				
		209+39.01 to 209+55.73	RT			17.0			17.0				
		209+41.92 to 209+43.17	LT			2.0			2.0				
		209+43.17 to 209+43.17	LT			4.1			4.1				
		209+43.17 to 209+49.57	LT/RT			9.7			9.7				
		209+49.58 to 209+74.59	RT			25.2			25.2				
		209+54.67 to 209+54.67	LT			0.1			0.1				
		209+54.67 to 209+54.93	LT			0.4			0.4				
		209+54.67 to 209+54.93	LT			0.4			0.4				
		209+54.93 to 209+83.41	LT			28.8			28.8				
		209+54.93 to 210+07.56	LT			52.7			52.7				
		209+55.73 to 209+74.47	RT			18.9			18.9				
		209+74.47 to 209+74.59	RT			0.9			0.9				
		209+83.41 to 209+87.21	LT/RT			9.4			9.4				
		209+86.23 to 209+86.97	RT			1.9			1.9				
		209+86.23 to 209+87.21	RT			2.9			2.9				
		209+86.97 to 209+95.57	RT			9.4			9.4				
		209+95.57 to 210+06.79	RT			12.6			12.6				
		210+06.79 to 210+08.61	RT			2.5			2.5				
		210+07.56 to 210+09.69	LT			3.6			3.6				
		210+08.61 to 210+09.69	LT/RT			19.5			19.5				
		211+49.29 to 211+53.06	LT			11.8			11.8				
		211+49.29 to 211+82.14	LT			37.4			37.4				
		211+53.06 to 211+56.73	LT			5.3			5.3				
		211+56.73 to 211+81.93	LT			25.6			25.6				
		211+62.22 to 211+63.64	RT			2.5			2.5				
		211+62.22 to 211+65.82	RT			15.0			15.0				
		211+63.64 to 211+76.18	RT			12.6			12.6				
		211+65.82 to 211+68.81	RT			3.8			3.8				
		211+68.81 to 211+79.08	RT			11.0			11.0				
		211+76.18 to 211+77.33	RT			2.4			2.4				
		211+77.33 to 211+77.54	RT			4.5			4.5				
		211+77.54 to 211+79.76	RT			5.2			5.2				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

CIP NO. 200671
SHT. NO. SQ-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
		TYPE					LENGTH	P	F					
0520 1 7	CONCRETE CURB & GUTTER, TYPE E (CONT'D)	211+79.08 to 211+79.76	RT		LF	2.1			2.1					
		211+81.93 to 211+82.14	LT			1.4			1.4					
		211+89.13 to 211+89.18	RT			1.0			1.0					
		211+89.13 to 211+90.17	RT			3.1			3.1					
		211+89.18 to 211+90.60	RT			3.3			3.3					
		211+90.17 to 211+91.17	RT			1.4			1.4					
		211+90.60 to 211+92.18	RT			1.9			1.9					
		211+91.17 to 212+05.25	RT			14.5			14.5					
		211+92.18 to 212+14.03	RT			23.4			23.4					
		212+05.25 to 212+76.98	LT/RT			73.4			73.4					
		212+14.03 to 212+65.86	LT/RT			53.4			53.4					
		212+65.86 to 212+76.98	LT			12.7			12.7					
		0520 1 10	CONCRETE CURB & GUTTER, TYPE F	105+19.87 to 105+52.72	RT		LF	33.3			33.3	2754		
105+46.41 to 106+28.70	LT					81.4			81.4					
105+52.73 to 106+31.81	RT					80.5			80.5					
106+28.70 to 106+37.25	LT					8.5			8.5					
106+31.81 to 106+43.20	RT					11.7			11.7					
106+37.25 to 106+49.31	LT					11.9			11.9					
106+41.87 to 106+70.27	RT					29.1			29.1					
106+49.31 to 106+75.35	LT					25.7			25.7					
106+79.66 to 107+17.32	RT					39.5			39.5					
106+84.82 to 107+03.96	LT					19.2			19.2					
107+03.96 to 107+17.82	LT					14.1			14.1					
107+17.32 to 107+62.88	RT					53.6			53.6					
107+17.82 to 107+35.41	LT					18.3			18.3					
107+35.41 to 107+62.16	LT					28.1			28.1					
107+62.16 to 108+08.08	LT					99.4			99.4					
108+75.43 to 109+92.32	LT					173.4			173.4					
109+44.55 to 109+75.38	RT					31.2			31.2					
109+84.68 to 110+12.11	RT					27.5			27.5					
109+92.32 to 109+94.71	LT					2.4			2.4					
110+04.59 to 110+40.74	LT					36.6			36.6					
110+12.11 to 110+28.33	RT					16.2			16.2					
110+50.62 to 110+99.96	LT					49.7			49.7					
110+99.96 to 111+12.98	LT					13.0			13.0					
111+12.98 to 111+48.09	LT					35.1			35.1					
111+48.09 to 113+03.05	LT					157.1			157.1					
205+80.08 to 206+49.48	RT					67.5			67.5					
206+49.48 to 208+09.57	RT					155.7			155.7					
208+05.57 to 208+66.99	LT					63.2			63.2					
208+09.57 to 208+68.42	RT					57.0			57.0					
208+66.99 to 208+78.55	LT					11.9			11.9					
208+68.42 to 208+82.67	RT					14.0			14.0					
208+78.55 to 208+81.17	LT					2.7			2.7					
208+81.17 to 208+93.10	LT					11.9			11.9					
208+82.67 to 208+99.95	RT			17.5			17.5							
208+93.10 to 208+96.10	LT			3.0			3.0							
208+96.10 to 209+00.54	LT			4.4			4.4							
208+99.95 to 209+42.61	RT			43.4			43.4							
209+00.54 to 209+03.54	LT			3.0			3.0							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
SUMMARY OF QUANTITIES

CIP NO. 200671
SHT. NO. SQ-8

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	CONCRETE CURB & GUTTER, TYPE F (CONT'D)	209+03.54 to 209+31.17	LT		LF	27.6			27.6					
		209+31.17 to 209+50.51	LT			19.3			19.3					
		211+27.91 to 212+50.29	LT			165.1			165.1					
		211+41.87 to 211+69.84	RT			37.5			37.5					
		211+69.84 to 212+18.64	RT			53.3			53.3					
		212+18.64 to 212+63.03	RT			46.5			46.5					
		212+50.29 to 212+51.95	LT			1.7			1.7					
		212+51.95 to 212+63.50	LT			11.7			11.7					
		212+63.03 to 212+72.37	RT			9.5			9.5					
		212+63.51 to 212+69.06	LT			5.6			5.6					
		212+69.06 to 212+89.17	LT			29.2			29.2					
		212+72.37 to 212+98.96	RT			26.7			26.7					
		212+78.55 to 212+89.35	LT			10.8			10.8					
		212+89.17 to 212+89.79	LT			2.2			2.2					
		212+89.35 to 212+94.26	LT			5.5			5.5					
		212+94.26 to 212+99.59	LT			5.3			5.3					
		212+98.96 to 213+03.81	RT			4.9			4.9					
		212+99.59 to 213+04.67	LT			5.5			5.5					
		213+04.67 to 213+30.09	LT			25.4			25.4					
		213+19.09 to 213+19.26	LT			2.0			2.0					
213+19.26 to 213+40.79	LT			28.3			28.3							
213+40.79 to 214+34.27	LT			93.2			93.2							
214+34.27 to 214+74.96	LT			40.5			40.5							
214+74.96 to 215+20.46	LT			45.2			45.2							
0520 2 4	CONCRETE CURB, TYPE D	106+70.27 to 106+71.96	RT		LF	2.4			2.4	210				
		106+71.96 to 106+72.25	RT			2.0			2.0					
		106+72.25 to 106+78.44	RT			6.3			6.3					
		106+75.35 to 106+76.73	LT			2.4			2.4					
		106+76.52 to 106+76.73	LT			1.9			1.9					
		106+76.52 to 106+82.91	LT			6.3			6.3					
		106+78.15 to 106+78.44	RT			2.0			2.0					
		106+78.15 to 106+79.66	RT			2.6			2.6					
		106+82.91 to 106+83.11	LT			1.9			1.9					
		106+83.11 to 106+84.82	LT			2.4			2.4					
		108+08.97 to 108+19.16	LT/RT			164.9			164.9					
		109+75.39 to 109+77.03	RT			2.4			2.4					
		109+77.03 to 109+77.23	RT			2.0			2.0					
		109+77.23 to 109+83.53	RT			6.3			6.3					
		109+83.33 to 109+83.53	RT			2.0			2.0					
109+83.33 to 109+84.68	RT			2.4			2.4							
0520 2 8	CONCRETE CURB, TYPE RA	108+05.65 to 108+22.64	LT/RT		LF	274.9			274.9	275				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
5/16/19	△ UPDATED QUANTITY BL CR2204W (DRIVEWAY)		

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)

SUMMARY OF QUANTITIES

CIP NO. 200671
SHT. NO. SQ-9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		DETECTABLE WARNINGS		DIRECTIONAL INDICATORS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522	2	0527	2	0919	528		
					SY		SF		SF			
					P	F	P	F	P	F		
106+31.81 to 107+61.88	RT	40930			95.5							
106+34.02 to 107+94.60	LT	40905			219.6							
107+03.24 to 107+25.71	RT	36112			5.4							
108+81.95 to 110+21.93	RT	40816			102.0							
109+00.15 to 109+11.71	LT	40961			3.9							
109+02.18 to 111+16.47	LT	40861			207.9							
109+04.34 to 109+26.04	LT	36121			19.8							
109+07.86 to 109+30.20	RT	36126			5.5							
208+37.55 to 210+09.30	LT	40874			198.9							
208+68.42 to 209+89.59	RT	40893			108.0							
209+36.91 to 209+60.91	LT	36136			13.3							
209+60.26 to 209+85.19	RT	36143			13.4							
211+43.56 to 212+72.37	RT	40946			100.7							
211+69.19 to 212+80.00	LT	40794			99.1							
211+76.18 to 211+92.18	RT	40848			14.6							
211+83.82 to 212+06.64	RT	36091			5.3							
211+87.83 to 212+09.26	LT	36131			4.9							
212+78.55 to 213+30.09	LT	40758			56.1							
212+79.92 to 212+86.25	LT	40787			0.4							
212+79.93 to 212+88.82	LT	40773			3.8							
212+79.99 to 212+89.13	LT	40780			0.5							
213+99.79 to 214+74.69	LT	40767			121.4							
107+05.48 to 107+15.82	LT	36218					20.0					
107+09.90 to 107+19.70	RT	36236					20.0					
107+13.17 to 107+23.55	LT	36223					20.0					
107+28.94 to 107+38.70	LT/RT	36229					19.9					
108+89.07 to 108+98.64	LT/RT	36195					20.2					
109+06.19 to 109+16.50	RT	36189					20.1					
109+09.18 to 109+18.29	LT	36201					21.3					
109+14.12 to 109+23.68	RT	36184					20.5					
209+43.91 to 209+53.91	LT	36206					20.0					
209+43.92 to 209+53.93	LT	36211					20.0					
209+68.37 to 209+78.71	RT	36241					20.1					
209+75.45 to 209+85.73	RT	36246					20.2					
211+77.95 to 211+89.58	RT	36167					21.9					
211+80.18 to 211+90.40	RT	36173					20.1					
211+90.53 to 212+00.43	RT	36178					20.0					
211+93.35 to 212+03.44	LT	36162					20.0					
106+97.48 to 107+01.68	RT	37676						9.0				
106+98.79 to 107+02.10	LT	46534						10.3				
109+30.93 to 109+33.90	RT	36685						10.2				
110+29.78 to 110+44.40	LT	46934						24.3				
208+80.90 to 209+01.02	RT	47773						28.8				
208+81.94 to 208+95.15	LT	47293						22.0				
212+07.92 to 212+11.91	RT	36520						10.2				
212+42.67 to 212+50.80	LT	46360						14.3				
SUB-TOTAL:					1900.0		324.3		129.1			
TOTAL:					1900		324		129			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
SUMMARY OF QUANTITIES		200671	SQ-10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
105+19.87 to 107+83.99	RT	38798				93.8		
105+19.89 to 107+15.86	LT/RT	38346				310.1		
105+46.41 to 107+00.99	LT	38727				126.0		
106+45.93 to 107+05.10	LT	38694				55.9		
106+46.06 to 107+04.27	RT	38450				25.8		
106+49.98 to 107+56.70	LT	38738				29.1		
107+24.06 to 107+49.29	LT/RT	38331				36.9		
108+08.97 to 108+08.97	RT	38344				240.5		
108+63.03 to 109+01.54	LT	38309				47.7		
108+68.45 to 109+08.31	RT	38513				13.3		
108+75.86 to 109+06.73	LT	38303				36.9		
108+78.61 to 109+05.74	LT/RT	38604				41.8		
108+98.61 to 110+94.57	LT/RT	38618				242.7		
108+99.82 to 110+54.82	LT	38565				55.8		
109+22.07 to 111+06.09	LT	38574				384.3		
109+29.79 to 110+09.60	RT	38518				78.6		
109+94.21 to 109+94.21	RT	38536				104.2		
110+43.89 to 113+03.06	LT	38643				78.4		
110+90.17 to 113+03.04	LT	38634				71.2		
205+79.48 to 210+07.36	RT	38272				145.1		
205+81.13 to 208+82.09	LT	38257				117.1		
205+99.21 to 209+45.33	LT/RT	38668				569.0		
208+37.58 to 209+88.31	LT	38317				51.3		
208+81.17 to 209+36.91	LT	38297				27.1		
208+85.90 to 209+61.98	RT	38289				37.9		
209+54.93 to 210+09.69	LT/RT	38653				50.6		
209+83.52 to 210+35.99	RT	38708				79.5		
211+18.62 to 211+84.67	RT	38463				21.3		
211+49.29 to 211+82.46	LT	47796				26.4		
211+62.22 to 211+79.76	RT	47774				24.3		
211+65.82 to 212+90.64	LT	38486				49.7		
211+87.65 to 212+73.46	RT	38786				31.4		
211+89.13 to 212+76.98	LT/RT	47785				49.4		
212+05.79 to 212+60.60	RT	38472				28.0		
212+08.53 to 212+48.94	LT	38479				9.3		
212+50.25 to 212+86.23	LT	38442				28.0		
212+72.37 to 215+20.45	RT	38396				83.7		
213+18.16 to 214+24.54	LT	38427				44.4		
214+52.68 to 215+20.46	LT	38420				26.9		
FROM DRAINAGE STRUCTURE SHEET						20.0		
					SUB-TOTAL:	7093.4		
					TOTAL:	7093		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDAABOUT)

SUMMARY OF QUANTITIES

CIP NO.	SHT. NO.
200671	SQ-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF ROOT BARRIER						
LOCATION	SIDE	AREA ID	ROOT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			***			
			LF			
			P	F		
104+92.57 to 105+53.00	RT		60.7			
105+13.70 to 105+34.83	RT		21.2			
105+41.63 to 105+62.48	LT		20.5			
105+52.97 to 105+99.47	RT		46.7			
106+31.80 to 106+59.79	RT		28.9			
106+33.47 to 107+00.41	LT		70.0			
106+34.56 to 106+96.28	LT		60.5			
106+40.04 to 106+53.88	LT		13.7			
106+50.17 to 106+91.89	LT		40.6			
106+52.25 to 106+53.56	LT		9.3			
106+52.52 to 106+53.88	LT		9.9			
106+70.14 to 106+81.48	RT		11.7			
108+88.25 to 109+19.25	RT		4.5			
109+23.16 to 109+51.67	RT		29.8			
109+30.06 to 110+02.53	RT		73.4			
109+30.55 to 109+56.92	RT		27.0			
109+56.95 to 109+85.79	RT		29.6			
109+85.79 to 110+02.53	RT		18.8			
109+96.87 to 110+55.82	LT		59.0			
110+51.02 to 110+94.55	RT		43.5			
110+52.04 to 111+03.47	RT		51.4			
110+66.69 to 111+72.05	LT		106.0			
111+18.58 to 113+03.09	LT		186.8			
111+72.05 to 112+30.12	LT		58.2			
112+30.12 to 113+03.07	LT		73.5			
205+79.38 to 208+66.66	LT		296.1			
206+83.67 to 208+09.40	RT		122.1			
207+70.56 to 208+48.82	LT/RT		78.9			
207+81.25 to 208+76.84	RT		94.6			
208+37.55 to 208+63.66	LT		27.6			
208+37.58 to 208+45.22	LT		8.0			
208+45.22 to 208+69.51	LT		25.8			
208+48.81 to 208+62.21	LT		13.5			
208+62.20 to 208+88.50	LT		26.4			
208+63.66 to 208+74.30	LT		11.4			
208+63.97 to 209+29.62	RT		66.0			
208+66.66 to 208+74.30	LT		8.4			
208+69.51 to 208+92.22	LT		23.3			
208+92.22 to 209+50.51	LT		58.3			
209+50.51 to 209+73.46	LT		38.3			
212+23.48 to 212+51.92	RT		23.3			
212+51.92 to 212+74.62	RT		27.4			
SUB-TOTAL :			2104.6			
TOTAL :			2286			

SUMMARY OF ROOT BARRIER						
LOCATION	SIDE	AREA ID	ROOT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			***			
			LF			
			P	F		
213+40.49 to 213+49.38	RT		9.0			
213+49.38 to 213+53.77	RT		4.4			
213+53.77 to 213+56.41	RT		2.6			
213+56.41 to 215+20.45	RT		165.8			
SUB-TOTAL :			181.8			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDBOUT)
SUMMARY OF QUANTITIES

CIP NO. 200671
SHT. NO. SQ-12

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