The current permit includes impacts to the existing Big Sky Subdivision pond (Pond 3) caused by the side slopes from the proposed roadway. After the permit was issued, the roadway side slopes have been replaced with a vertical retaining wall reducing the impacts to the Big Sky Pond. This letter modification is to document these changes.

As documented in the current permit, there is still no runoff from the Hancock Road entering the Big Sky Pond

Fee Receipt

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
P. O. Box 1429
Palatka, FL 32178-1429

Date: May 9, 2013
By: System Generated

RECEIPT #: 56533
RECEIVED FROM: Online Transaction
THE SUM OF: $ 160.00

FOR: Application Fee

FEE DETAIL INFORMATION

Online	OnLine-151492813-260597	$ 160.00

APPLICANT
Lake County Department of Public Works
123 N Sinclair Avenue
Deer Island, FL 32778

OWNER
Lake County Board of County Commissioners
315 W Main St
Tavares, FL 32778

LAKE COUNTY
FLORIDA

May 1, 2013

St. Johns River Water Management District
P.O. Box 1429
Palatka, FL 32178

RE: **Permit No. 40-069-50126-4 , Hancock Road - Pond 3 (Big Sky) Modification**

To Whom It May Concern:

Please allow this letter to serve as authorization for TLP Engineering Consultants, Inc. to act on behalf of Lake County during the review of the above mentioned Environmental Resource Permit.

If I can help further with any type of information, please contact me at 352.483.9043.

Respectfully,

Lake County Public Works

Alan Kirkland, PE
Engineer IV, Special Projects Manager

PUBLIC WORKS DEPARTMENT
437 ARDICE AVE. ♦ EUSTIS, FL 32726 ♦ P 352.483.9000 ♦ F 352.483.9025
Board of County Commissioners • www.lakecountyfl.gov

Application Attachments

File Name: DrawdownCalcs.pdf
Description: Revised Drawdown Calculations
Size: 2228576 bytes
SHA Number: B194CD3A1F95CDD55A7471658D48DCE89BB4DB82

File Name: HancockPlans.pdf
Description: Revised Construction Plans 3,27,28,141-143,194,195
Size: 4009220 bytes
SHA Number: 0145E76AA6EA7444BF5BE831A59B13D532471CEA

File Name: LakeCounty_Authorization.pdf
Description: Authorization Letter from Lake County
Size: 145160 bytes
SHA Number: 7995582017B528559E0C295FFE932624C18591A2

File Name: StormwaterCalcs.pdf
Description: Revised Stormwater Calculations
Size: 232962 bytes
SHA Number: 989A0594A4B8D0FD9821582A53CCB863D63D472D

PONDS Version 3.2.0265
Retention Pond Recovery - Refined Method
Copyright 2012
Devo Seereeram, Ph.D., P.E.

Project Data

Project Name:	Hancock Road - Pond 3 - Big Sky Subdivision
Simulation Description:	Revised Stormwater Calculations due to Existing Power Line Constraints.
Project Number:	
Engineer :	Mandee Brandt, PE
Supervising Engineer:	Jim Myers, PE
Date:	05-06-2013

Aquifer Data

Base Of Aquifer Elevation, [B] (ft datum):	92.00
Water Table Elevation, [WT] (ft datum):	93.00
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day):	20.00
Fillable Porosity, [n] (%):	25.00
Unsaturated Vertical Infiltration Rate, [Iv] (ft/day):	13.0
Maximum Area For Unsaturated Infiltration, [Av] (ft^2):	15112.0

Geometry Data

Equivalent Pond Length, [L] (ft):	750.0
Equivalent Pond Width, [W] (ft):	20.0

Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft^2)
124.00	3978.0
125.00	6138.0
126.00	7911.0
127.00	9693.0
128.00	11308.0
129.00	16252.0
130.00	21196.0
131.00	26247.0

Scenario Input Data

Scenario 1 :: 33541.2 ft³ slug load - Treatment Volume (0.77 ac-ft)

Hydrograph Type: Slug Load
Modflow Routing: Routed with infiltration

Treatment Volume (ft³) 33541.2

Initial ground water level (ft datum) 93.00 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000	5.000	10.000
0.250	2.500	6.000	11.000
0.500	3.000	7.000	12.000
1.000	3.500	8.000	13.000
1.500	4.000	9.000	14.000

Scenario 2 :: 87120 ft³ slug load - 25yr/96hr

Hydrograph Type: Slug Load
Modflow Routing: Routed with infiltration

Treatment Volume (ft³) 87120

Initial ground water level (ft datum) 93.00 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.100	2.000	5.000	10.000
0.250	2.500	6.000	11.000
0.500	3.000	7.000	12.000
1.000	3.500	8.000	13.000
1.500	4.000	9.000	14.000

Detailed Results :: *Scenario 1 :: 33541.2 ft³ slug load - Treatment Volume (0.77 ac-ft)*

Elapsed Time	Instantaneous Inflow Rate	Outside Recharge	Stage Elevation	Infiltration Rate	Combined Instantaneous Discharge	Cumulative Inflow	Cumulative Infiltration	Combined Cumulative	
0.000	5590.2000	0.00000	93.00000	0.00000	0	0.000	0.00000	0	N.A.
0.002	5590.2000	0.00000	128.18240	1.83765	0	33541.200	11.02688	0	U/P
2.400	0.0000	0.00000	126.87640	1.42917	0	33541.200	13841.43000	0	U/P
6.000	0.0000	0.00000	124.91380	0.73123	0	33541.200	29004.23000	0	U/P
12.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
24.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
36.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
48.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
60.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
72.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
84.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
96.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
120.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
144.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
168.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
192.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
216.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
240.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
264.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
288.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
312.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry
336.000	0.0000	0.00000	----	----	----	33541.200	33541.20000	0	dry

Detailed Results :: *Scenario 2 :: 87120 ft³ slug load - 25yr/96hr*

Elapsed Time	Instantaneous Inflow Rate	Outside Recharge	Stage Elevation	Infiltration Rate	Combined Instantaneous Discharge	Cumulative Inflow	Cumulative Infiltration	Combined Cumulative	
0.000	14520.0000	0.00000	93.00000	0.00000	0	0.000	0.00000	0	N.A.
0.002	14520.0000	0.00000	130.98080	2.27380	0	87120.000	13.64278	0	U/P
2.400	0.0000	0.00000	130.16590	2.27050	0	87120.000	19645.60000	0	U/P
6.000	0.0000	0.00000	128.53290	1.96080	0	87120.000	49007.06000	0	U/P
12.000	0.0000	0.00000	125.26260	0.96859	0	87120.000	80389.23000	0	U/P
24.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
36.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
48.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
60.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
72.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
84.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
96.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
120.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
144.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
168.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
192.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
216.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
240.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
264.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
288.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
312.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry
336.000	0.0000	0.00000	----	----	----	87120.000	87120.00000	0	dry

Stormwater Management Report
N. Hancock Road - Segment A
Lake County Engineering Department
Lake County, Florida

Basin No. 3 (Big Sky Subdivision) — **Calculated By:** MEB **Date:** March 5, 2013
Basin Area Summary — **Checked By:** JEM **Date:** May 6, 2013

Big Sky Subdivision Pre Development Condition:

From Permit Number: 42-069-101701-1

Area Breakdown:

Open Space	9.88 ac
Wood-Grass Combo (Offsite 1)	0.90 ac
Total	10.78 ac

Limits of Big Sky Subdivision located within Hancock Road ROW:

Station to	Station	Length (ft)	Right of Way Width (ft)	Area (ac)	Remarks
234+60.00	238+55.15	395.15	120	1.14	Big Sky Subdivision Completely located within ROW
238+55.15	240+60.00	204.85	133 to 81	0.50	Big Sky Subdivision partially located within ROW
Total Area Removed from Big Sky Subdivision for Hancock Road Project =				1.65	

Revised Pre-Development Total Area Breakdown:

Open Space	8.30 ac
Wood-Grass Combo (Offsite 1)	0.83 ac
Total	9.13 ac

Big Sky Subdivision Post Development Condition:

From Permit Number: 42-069-101701-1

Area Breakdown:

Open Space	6.91 ac
Impervious	2.97 ac
Wood-Grass Combo (Offsite 1)	0.90 ac
Total	10.78 ac

Limits of Big Sky Subdivision located within Hancock Road ROW:

Station to	Station	Length (ft)	Right of Way Width (ft)	Area (ac)	Remarks
234+60.00	238+55.15	395.15	120	1.14	Big Sky Subdivision Completely located within ROW
238+55.15	240+60.00	204.85	133 to 81	0.50	Big Sky Subdivision partially located within ROW
Total Area Removed from Big Sky Subdivision for Hancock Road Project =				1.65	

Impervious Area to be Removed within Big Sky Subdivision as part of the Hancock Road Project:

Big Sky Subdivision Impervious Area =	2.97 ac
Removal of Bison Trail:	0.21 ac
Total Impervious Area =	2.76 ac

Revised Post Development Total Area Breakdown:

Open Space	5.54 ac
Impervious	2.76 ac
Wood-Grass Combo (Offsite 1)	0.83 ac
Total	9.13 ac

Stormwater Management Report

N. Hancock Road - Segment A

Lake County Engineering Department
Lake County, Florida

Basin No. 3 (Big Sky Subdivision)	Calculated By:	MEB	Date:	March 5, 2013
Pre-Developed CN and SCS Runoff Volume Calculation	Checked By:	JEM	Date:	May 6, 2013

Pre Condition

BASIN DESIGNATION	Ponds 1, 2, and 3 interconnected
TYPE EVALUATION	Pre-Developed, 25yr/96hr storm
BASIN SIZE	9.13 Acres
RAINFALL DEPTH	11 Inches

SOIL LAND USE DESCRIPTION	NAME	SOIL GROUP	CN	AREA	PRODUCT
Open Space, good condition		A	39	8.30	323.8
Woods-Grass Combo, good condition		A	32	0.83	26.57
			TOTAL	9.13	350.4

WEIGHTED, CN = $\frac{\text{PRODUCT}}{\text{AREA OR \%}}$ = 38.4

SOIL STORAGE, S = $\frac{1000}{\text{CN}} - 10$ = 16.07 INCHES

RUNOFF, R = $\frac{(P-0.2S)^2}{(P+0.8S)}$ = 2.54 INCHES

RUNOFF VOLUME, V = $\frac{R}{12} \times \text{AREA}$ = 1.93 ACRE-FT

Pre Developed Volume = 1.93 ACRE-FT
Pre Developed Volume = 84300 CUBIC FEET

Stormwater Management Report

N. Hancock Road - Segment A

Lake County Engineering Department
Lake County, Florida

Basin No. 3 (Big Sky Subdivision) — Calculated By: MEB — Date: March 5, 2013
Post-Developed CN and SCS Runoff Volume Calculation — Checked By: JEM — Date: May 6, 2013

Proposed Condition

BASIN DESIGNATION Ponds 1, 2, and 3 interconnected
TYPE EVALUATION Post-Developed, 25yr/96hr storm
BASIN SIZE 9.13 Acres
RAINFALL DEPTH 11 Inches

SOIL LAND USE DESCRIPTION	SOIL NAME / GROUP	CN	AREA	PRODUCT
Open Space, good condition (30%)	A	39	5.54	216.17
Impervious (70%)		98	2.76	270.48
Woods-Grass Combo, good condition	A	32	0.83	26.571
		TOTAL	9.13	513.23

WEIGHTED, CN = $\frac{\text{PRODUCT}}{\text{AREA OR \%}}$ = 56.2

SOIL STORAGE, S = $\frac{1000}{CN} - 10$ = 7.80 INCHES

RUNOFF, R = $\frac{(P-0.2S)^2}{(P+0.8S)}$ = 5.17 INCHES

RUNOFF VOLUME, V = $\frac{R}{12} \times \text{AREA}$ = 3.94 ACRE-FT

Post Developed Volume = 3.94 ACRE-FT
Post Developed Volume = 171400 CUBIC FEET

Stormwater Management Report

N. Hancock Road - Segment A

Lake County Engineering Department
Lake County, Florida

Basin No. 3 (Big Sky Subdivision)
Treatment Volume Calculation

Calculated By: MEB Date: May 9, 2013
Checked By: JEM Date: May 6, 2013

SJRWMD Treatment Volume Requirement

Water Quality Volume for a Dry Retention System is based upon the greater of (1) 1.0 inch of runoff over the basin area or (2) 1.25 inches of runoff over the impervious area plus an additional 0.5 inches over the entire basin area.

Vt(1) = One inch of runoff from the basin area
Vt(1) = ((9.13 ac.) * 1.0 in.)/12
Vt(1) = 0.76 acre-ft

Vt(2) = 1.5 inches of runoff over the impervious area + 0.5 inches over the entire basin
Vt(2) = ((2.76 ac. * 1.25 in.)+(0.5 in. *9.13 ac.))/12
Vt(2) = 0.67 acre-ft

Therefore 0.76 Acre-ft for the required treatment volume

Is Basin part of an OFW (yes or no)? no Add an additional 50%

TOTAL BASIN REQUIRED TREATMENT VOLUME = 0.76 acre-ft

Stormwater Management Report

N. Hancock Road - Segment A

Lake County Engineering Department
Lake County, Florida

Basin No. 3 (Big Sky Subdivision)	**Calculated By:**	**MEB**	**Date:**	**May 9, 2013**
Pond Stage-Storage Relationship	**Checked By:**	**JEM**	**Date:**	**May 9, 2013**

STAGE vs. STORAGE CALCULATIONS
Ponds 1, 2, and 3 interconnected

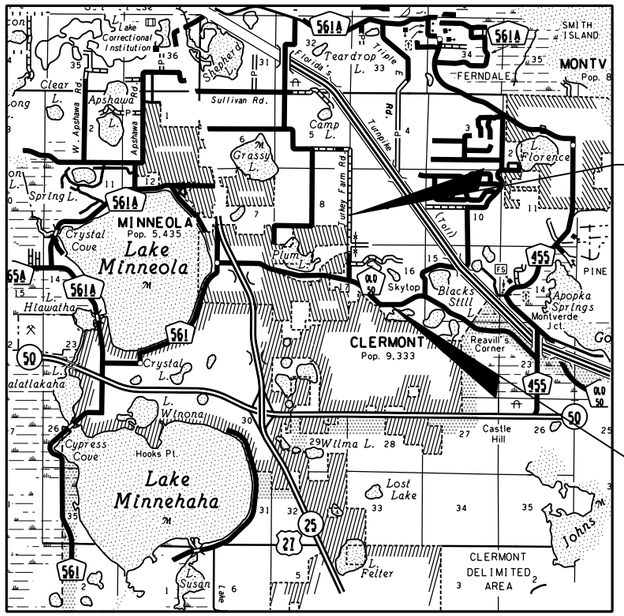
Stage (ft NGVD 1929)	*Surface Area (sf)*	*Surface Area (Ac)*	*Average Area (Ac)*	*Incremental Depth (ft.)*	*Incremental Volume (Ac-Ft)*	*Total Volume (Ac-Ft)*
124.00	3,978	0.091	0.000	0.000	0.000	0.000
125.00	6,138	0.141	0.116	1.000	0.116	0.116
126.00	7,911	0.182	0.161	1.000	0.161	0.277
127.00	9,693	0.223	0.202	1.000	0.202	0.479
128.00	11,308	0.260	0.241	1.000	0.241	0.721
129.00	16,252	0.373	0.316	1.000	0.316	1.037
130.00	21,196	0.487	0.430	1.000	0.430	1.467
131.00	26,247	0.603	0.545	1.000	0.545	2.011

Required Water Quality Volume =	0.76	ac-ft
Required Treatment Stage =	128.11	ft
Provided Treatment Stage =	128.15	ft
Provided Treatment Volume =	0.77	ac-ft

Total Required Retention Volume =	2.00	ac-ft
Total Retention Stage =	130.89	ft

NORTH HANCOCK ROAD

LAKE COUNTY, FLORIDA



END PROJECT
STA. 263+54.13

BEGIN PROJECT
STA. 188+50.00

VINCINITY / LOCATION MAP
1"= 2 MILES

SHEET INDEX

NO.	DESCRIPTION
1	KEY SHEET
2 - 5	DRAINAGE MAP
6 - 17	TYPICAL SECTION
18	GENERAL NOTES
18A	PROJECT LAYOUT
19 - 40	ROADWAY PLAN
41 - 61	ROADWAY PROFILE
62 - 68	SPECIAL PROFILES
69 - 71	DRAINAGE STRUCTURE DATA
72 - 75	POND DETAIL
76 - 86	POND CROSS SECTIONS
86A	CROSS SECTION PATTERN
87 - 190	ROADWAY CROSS SECTIONS
191 - 198	EROSION CONTROL SHEETS
199 - 200	STORMWATER POLLUTION PREVENTION PLAN
201 - 242	TRAFFIC CONTROL PLAN (NOT INCLUDED)
243 - 262	UTILITY ADJUSTMENT PLAN (NOT INCLUDED)
263 - 283	SIGNING AND PAVEMENT MARKING PLAN
284 - 287	SIGNALIZATION PLAN

THE ENGINEER OF RECORD CERTIFIES THAT THIS DESIGN IS IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS ESTABLISHED PURSUANT TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" COMMONLY KNOWN AS THE "FLORIDA GREENBOOK."

LAKE COUNTY DEPARTMENT OF
PUBLIC WORKS
ENGINEERING DIVISION

437 ARDICE AVENUE
EUSTIS, FLORIDA 32726
PHONE: (352) 483-9040

60% PLAN SET
WITH RIGHT OF WAY

REVISIONS	DATE

TY·LIN INTERNATIONAL
225 E. ROBINSON STREET, SUITE 490
ORLANDO, FLORIDA 32801
P 407.563.7101 F 407.999.5228
CERTIFICATE OF AUTHORIZATION 00002017

SIGNATURE

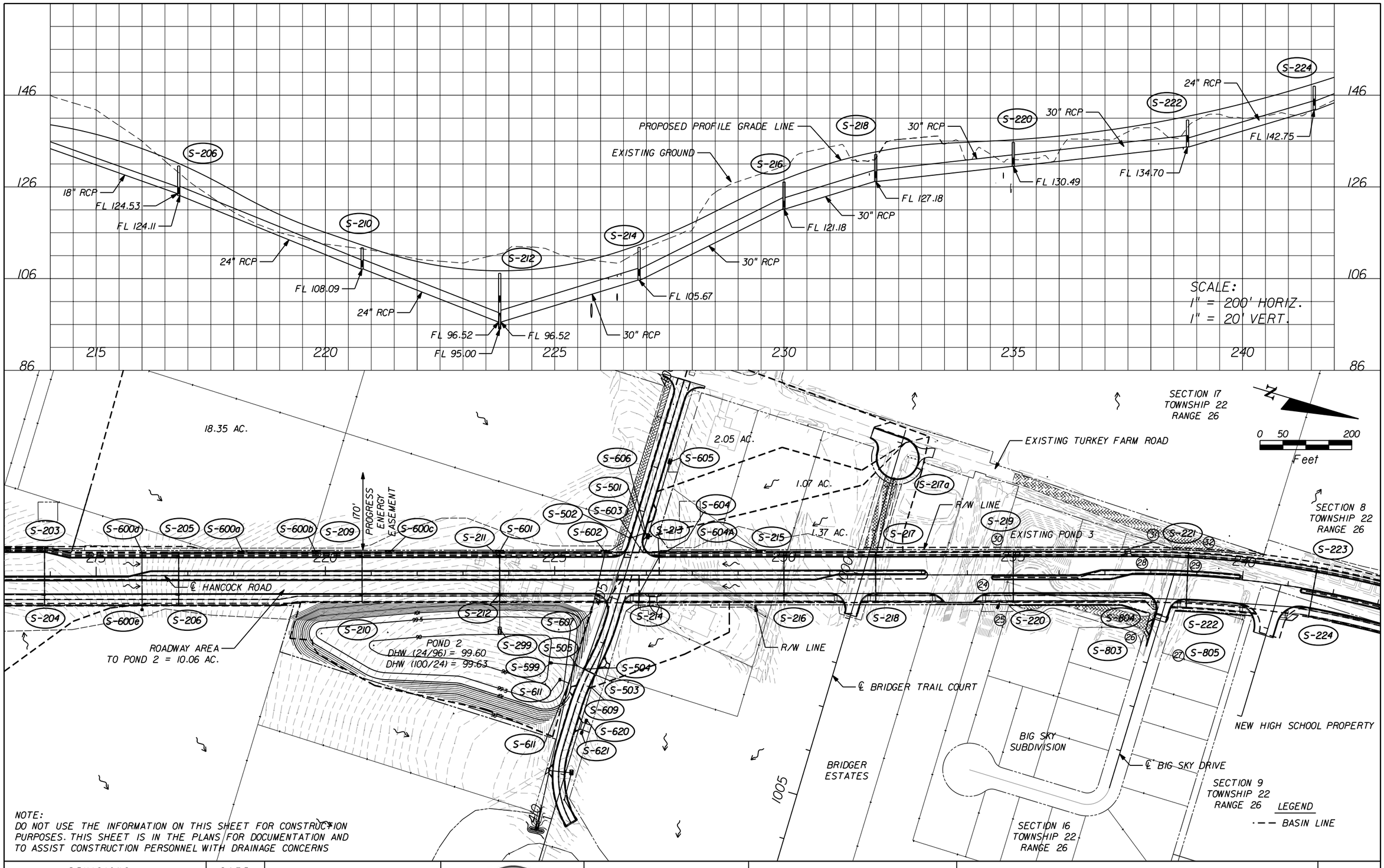
DATE

DINO E. LUCARELLI, P.E. NO. 39556

KEY SHEET

SHEET NO. 1

cmarinescu 11/7/2012 3:24:17 PM D:\e\projects\5700\300000\roadway\keysrd01.dgn



NOTE:
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

REVISIONS	DATE

TY·LIN INTERNATIONAL
225 E. ROBINSON STREET, SUITE 490
ORLANDO, FLORIDA 32801
P 407.563.7101 F 407.999.5228
CERTIFICATE OF AUTHORIZATION 00002017

LAKE COUNTY
FLORIDA

LAKE COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
437 ARDICE AVENUE
EUSTIS, FLORIDA 32726

SIGNATURE
DATE
DINO E. LUCARELLI, P.E. NO. 39556

DRAINAGE MAP

SHEET NO. 3

cmarinescu 11/5/2012 1:11:50 PM D:\e\projects\57001300000\drainage\DRMPRD02.dgn

DRAINAGE EASEMENT
20'
DRAINAGE EASEMENT
CONSTRUCTION EASEMENT
CONSTRUCTION EASEMENT
CONST. 18" RCP
N 89° 48' 36" E
999'
CONSTRUCTION EASEMENT
CONST. 6.75' CONC. SIDEWALK WITH EDGE BEAM AND 6' BLACK VINYL COATED CHAIN LINK FENCE, TYPE B
END CONST. 6.75' CONC. SIDEWALK WITH EDGE BEAM AND 6' BLACK VINYL COATED CHAIN LINK FENCE, TYPE B
+70.00
170' PROGRESS ENERGY POWER EASEMENT
PROPERTY LINE
LIMITS OF CONSTRUCTION
PROPERTY LINE
BEGIN RETAINING WALL WITH STEEL PEDESTRIAN/BICYCLE PICKET RAILING
+20.00
CONST. RETAINING WALL WITH STEEL PEDESTRIAN/BICYCLE PICKET RAILING
END RETAINING WALL WITH STEEL PEDESTRIAN/BICYCLE PICKET RAILING
+40.00
R/W LINE
CONC. WALK
FLOWLINE SWALE
1" = 40'
+62.50
57.36' (LT.)
END CONCRETE DITCH PAVEMENT
+50.00
+61.79
55.00' (LT.)
+75.00
49.00' (LT.)
CONST. 5' CONC. SIDEWALK
R/W LINE
+15.00
49.00' (LT.)
CONC. BARRIER WALL (RIGID) (CURB AND GUTTER)
+70.69
55.00' (LT.)
+72.19
60.00' (LT.)
ROADWAY EASEMENT
WATER RETENTION AREA
CONST. 6' CONC. SIDEWALK
PROGRESS ENERGY POWER EASEMENT
+13.98
55.00' (LT.)
+13.76
55.00' (LT.)
CONC. DITCH PAVEMENT
CURB AND GUTTER TYPE F
S-217
S-219
CONST. CONCRETE COLLAR AND EXTEND EXIST. 24" RCP 10 LF TO THE FRONT FACE OF THE RETAINING WALL
CURB AND GUTTER TYPE E
CONST. 77' OF 18" RCP
+04.38
11.00' (LT.)
R 5'
℄ CONST. HANCOCK RD.
EXIST. 24" RCP TO REMAIN
CONST. 77' OF 18" RCP
+57.41
11.00' (RT.)
REPLACE EXISTING INLET TOP WITH MANHOLE TOP
MATCHLINE STA. 230+80.00
MATCHLINE STA. 236+40.00
55'
28'
11'
231
232
233
234
235
236
1000
+19.38
1.00' (LT.)
CURB AND GUTTER TYPE E
+04.38
1.00' (LT.)
R 75'
R 75'
N 16° 51' 52" W
R 5'
+57.41
11.00' (RT.)
EXIST. 15' RCP TO REMAIN
EXIST. 15' RCP TO REMAIN
CURB AND GUTTER TYPE E
S-711
S-220
CONST. 30" RCP
+98.16
39.00' (RT.)
CURB AND GUTTER TYPE F
+10.44
39.00' (RT.)
EL. 134.56
CONST. 296' OF 30" RCP
+52.46
39.00' (RT.)
EL. 135.46
CURB AND GUTTER TYPE F
65'
+00.03
39.00' (RT.)
R 35'
CR 21
S-218
CR 21
R 50'
+51.17
60.00' (RT.)
EL. 135.35
R 50'
CR 21
CONST. CONCRETE COLLAR AND EXTEND EXIST. 24" RCP 7 LF
CONST. 373' OF 30" RCP
+89.89
65.00' (RT.)
+91.43
66.00' (RT.)
℄ CONST. BRIDGER TRAIL COURT
12'
12'
12' MULTI-USE PATH
+78.04
65.00' (RT.)
+64.60
64.06' (RT.)
R/W LINE
+11.72
60.00' (RT.)
EL. 135.67
15'
S-710
+18.88
65.00' (RT.)
+21.07
84.44' (RT.)
+33.56
84.02' (RT.)
1001
N 89° 48' 36" E
STA. 231+71.41, ℄ CONST. HANCOCK RD. =
STA. 1000+00.00, ℄ BRIDGER TRAIL COURT
LIMITS OF CONSTRUCTION
+68.01
98.50' (RT.)
+56.66
90.86' (RT.)
BEGIN STEEL PEDESTRIAN/ BICYCLE PICKET RAILING
+39.27, 56.50' (RT.)
R/W LINE
R/W LINE
REMOVE EXISTING CURB AND GUTTER AND PAVEMENT OUTSIDE R/W
LANDSCAPE WALL (BY OTHERS)
LIMITS OF CONSTRUCTION
+34.61
65.00' (RT.)
+30.10
80.00' (RT.)
+06.09
80.00' (RT.)
BEGIN GRAVITY WALL WITH STEEL PEDESTRIAN/BICYCLE PICKET RAILING
+30.44, 62.00' (RT.)
GRAVITY WALL WITH STEEL PEDESTRIAN/BICYCLE PICKET RAILING
+35.11, 62.00' (RT.)
CONSTRUCTION EASEMENT
CONSTRUCTION EASEMENT
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
EXISTING PAVEMENT REMOVAL
(1)16" OAK TREES
12"CHERRY
24"RCP
15"RCP
(2)12"OAK
5"OAK
(2)6"OAK
6"CHERRY
8"CHERRY
4"OAK
6"OAK
(2)8"CHERRY
10"CHERRY
7"CHERRY
4"CHERRY
8"OAK
4"OAK 4"OAK

REVISIONS	DATE

TY·LIN INTERNATIONAL
225 E. ROBINSON STREET, SUITE 490
ORLANDO, FLORIDA 32801
P 407.563.7101 F 407.999.5228
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LAKE COUNTY FLORIDA

LAKE COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
437 ARDICE AVENUE
EUSTIS, FLORIDA 32726

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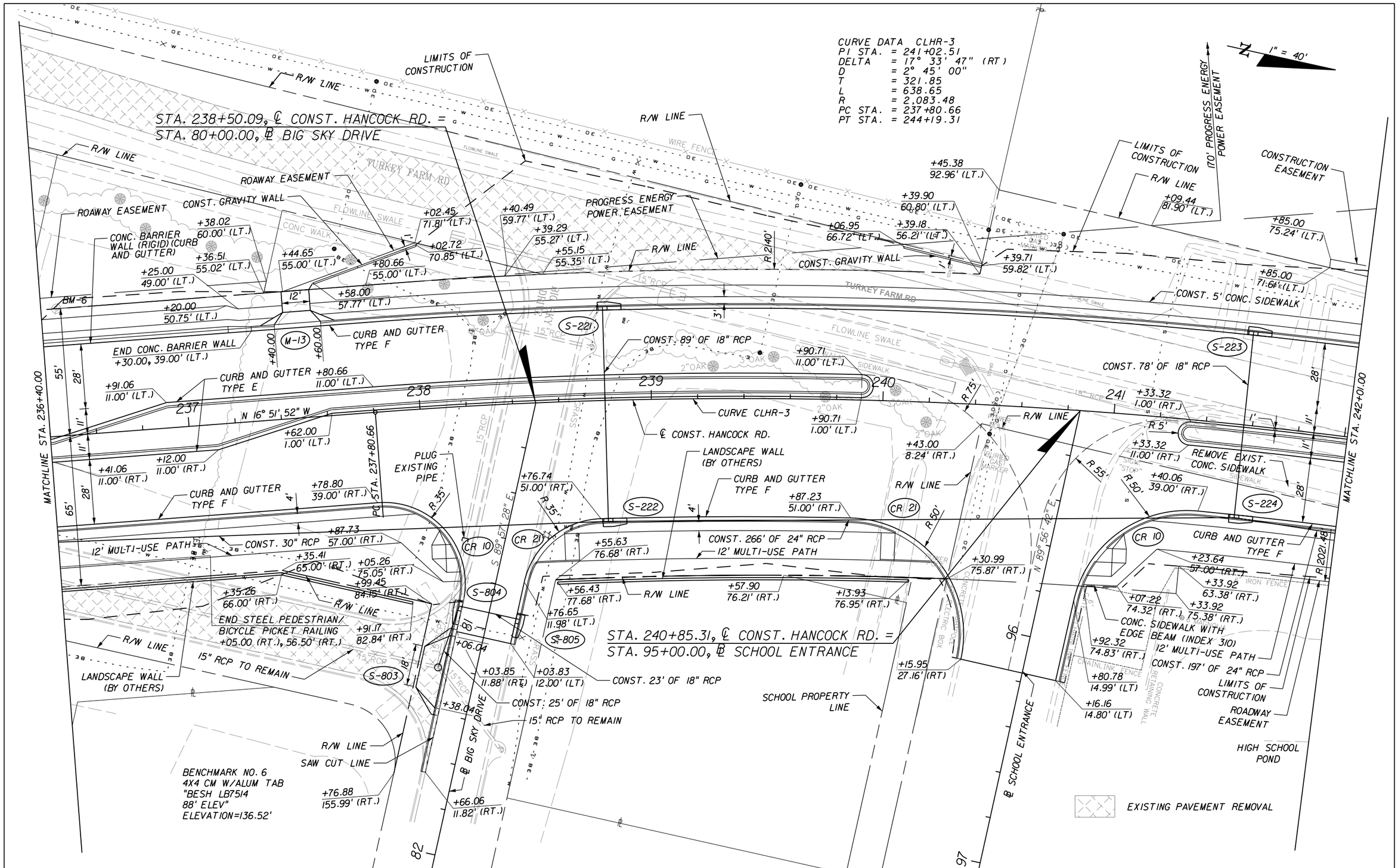
DINO E. LUCARELLI, P.E. NO. 39556

PLAN
NORTH HANCOCK ROAD

SHEET NO. 27

cmarinescu 11/4/2012 1:32:29 PM D:\e\projects\5700\300000\roadway\PLANRD09.dgn



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PLAN
NORTH HANCOCK ROAD

SHEET NO. 28

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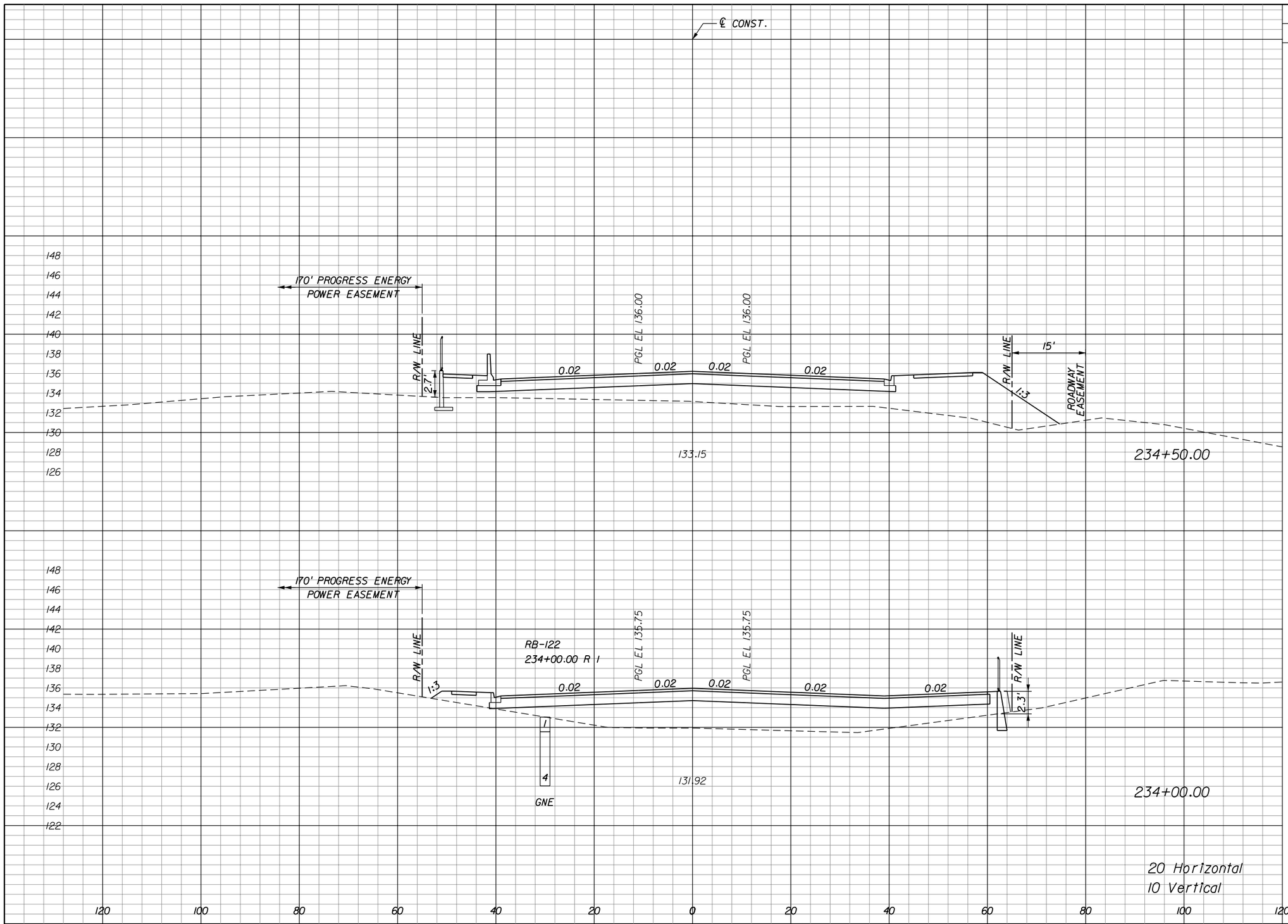

Regular Exc.		Embankment	
A	V	A	V
1.32	2	264.30	455
1.16	209	226.69	210

REVISIONS	DATE

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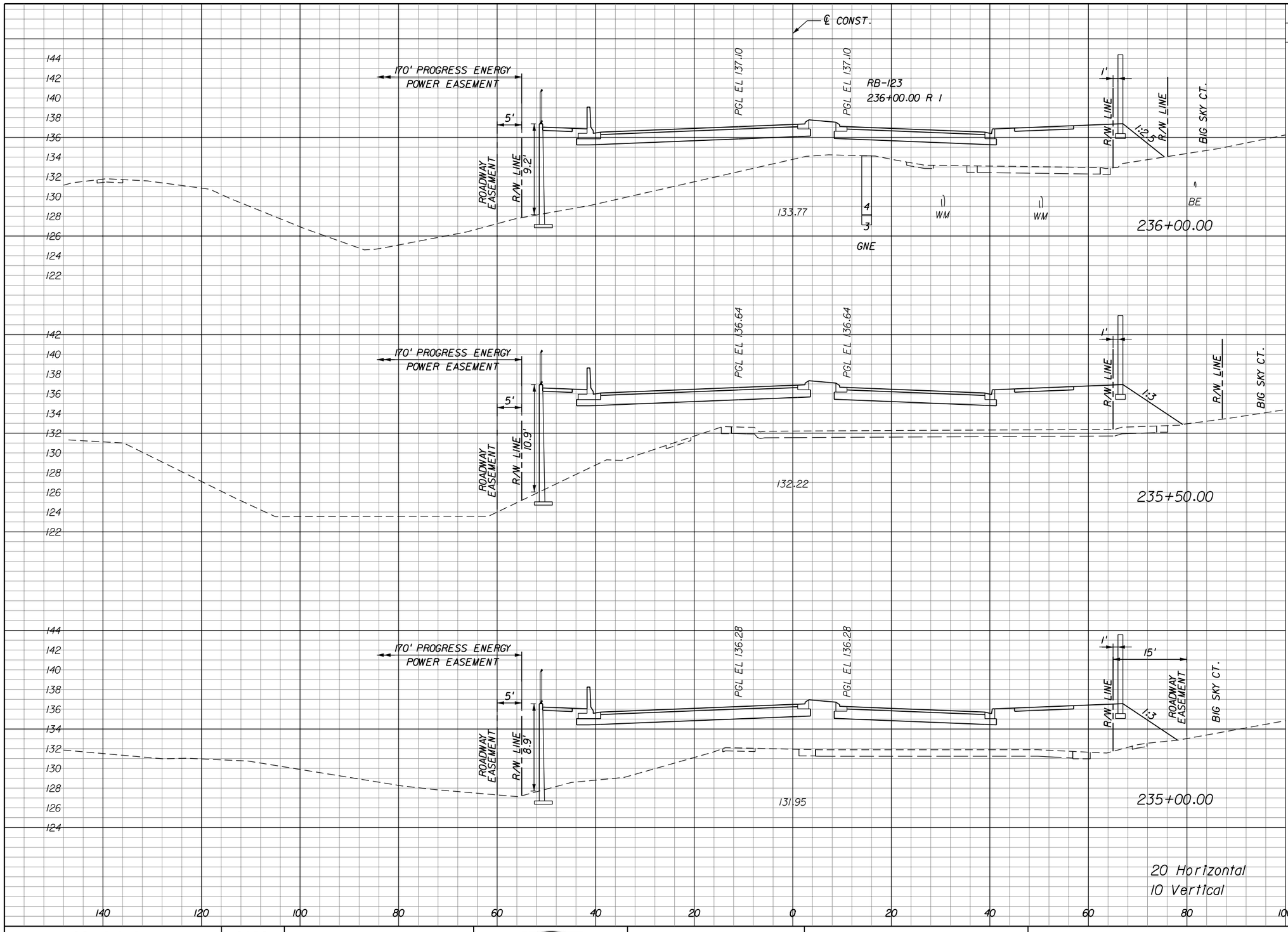
CROSS SECTIONS
NORTH HANCOCK ROAD

SHEET NO.
141

cmarinescu 11/8/2012 1:10:39 PM D:\e\projects\5700\300000\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
95.10	158	512.29	1073
75.81	75	646.49	1153
5.51	6	598.91	799

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CROSS SECTIONS
NORTH HANCOCK ROAD

SHEET NO. 142

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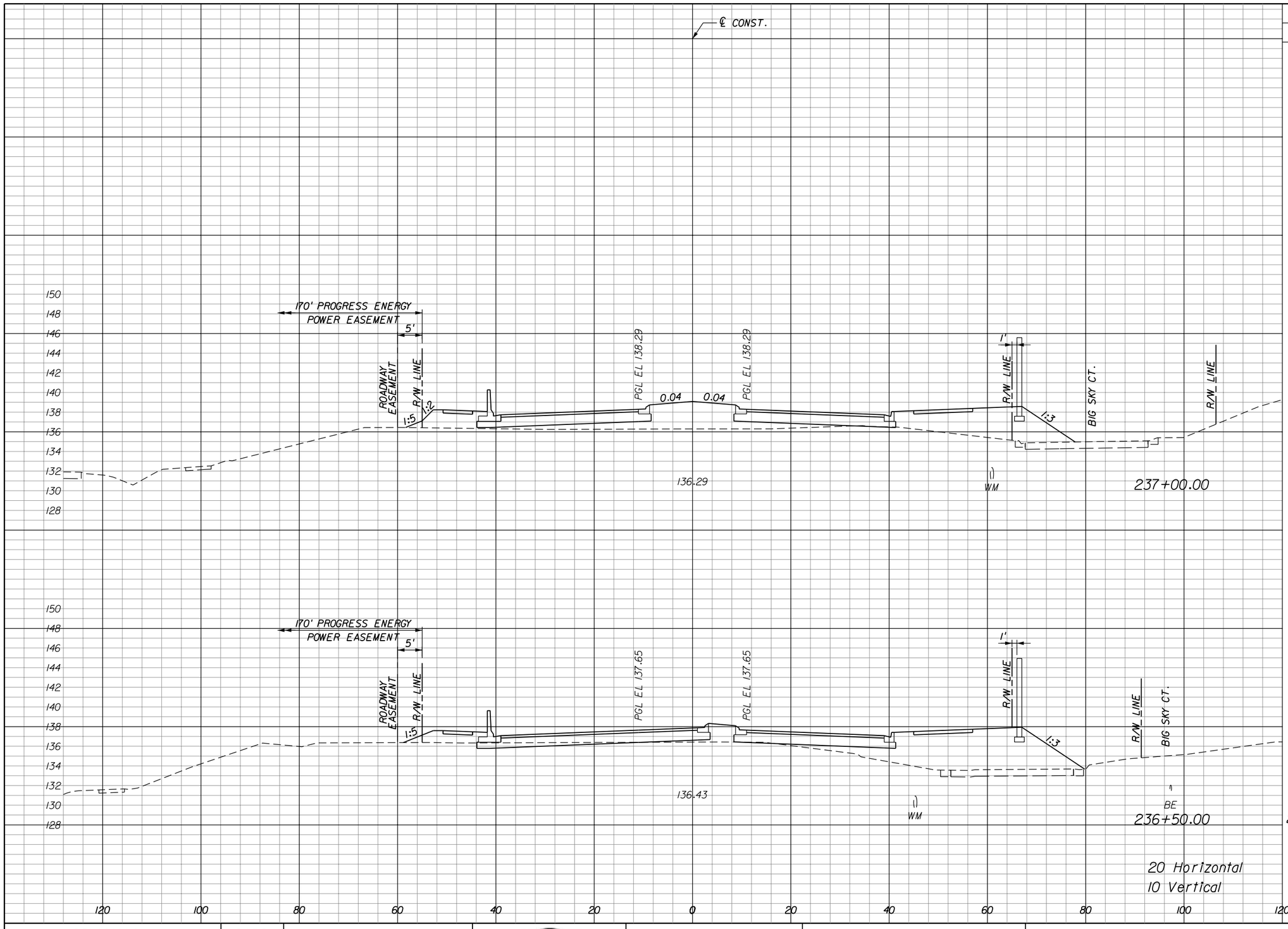

Regular Exc.		Embankment	
A	V	A	V
0.25	222	144.83	252
239.87	310	127.75	593

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CROSS SECTIONS
NORTH HANCOCK ROAD

SHEET NO. 143

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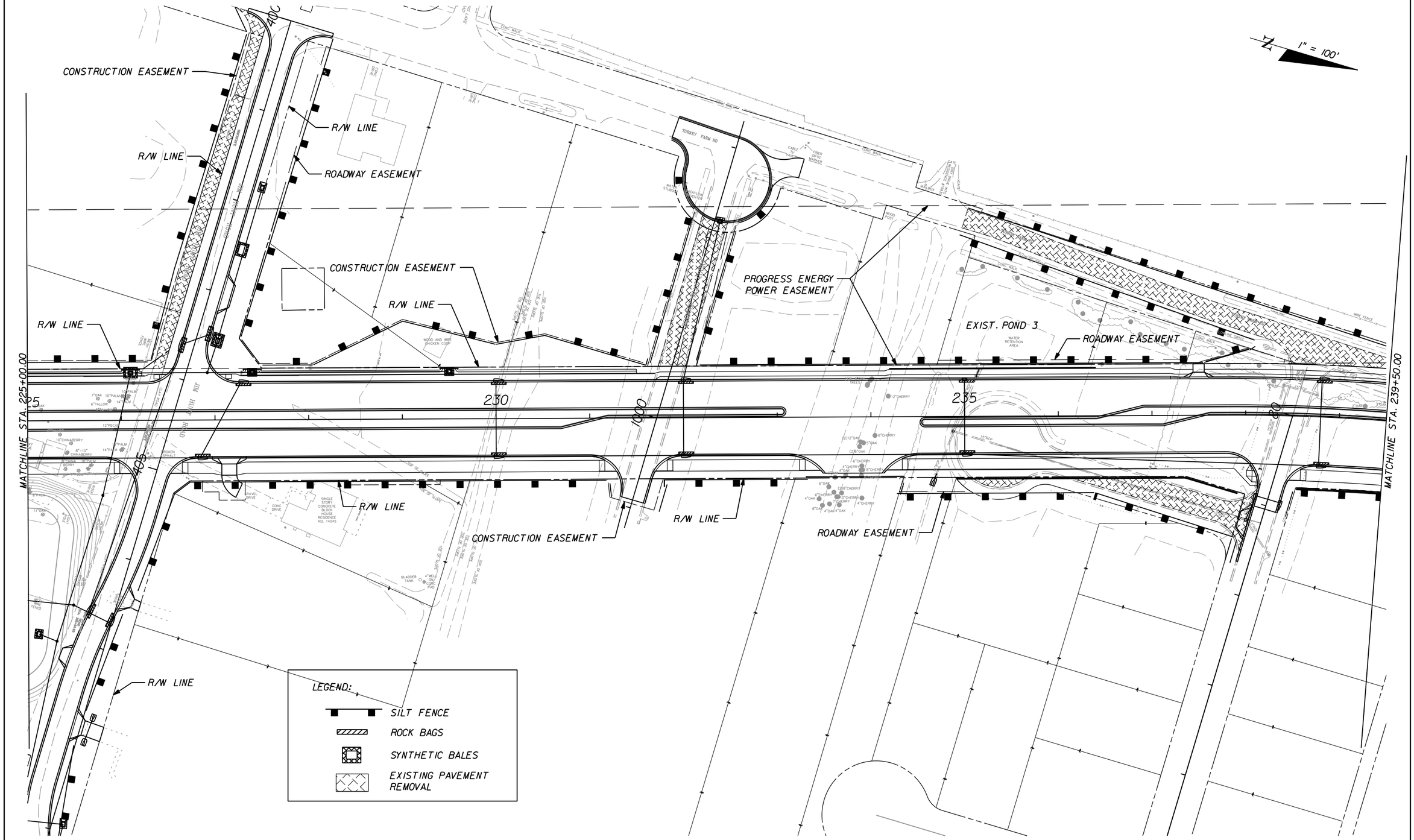

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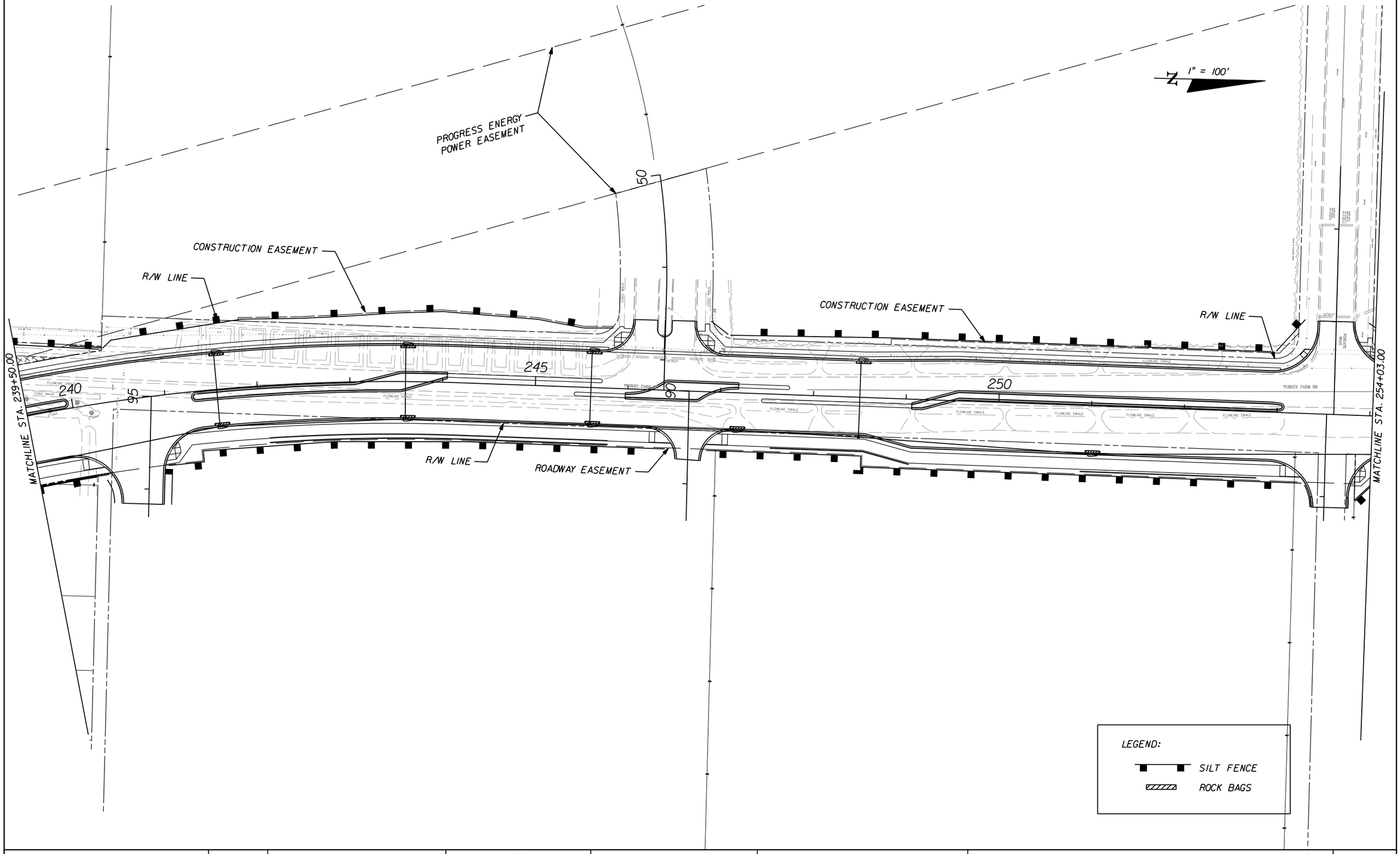
EROSION CONTROL SHEETS

SHEET NO.

194

cmarinescu 11/5/2012 1:21:07 PM D:\e\projects\5700\300000\roadway\SWPPRD05.dgn



REVISIONS	DATE

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EROSION CONTROL SHEETS

SHEET NO.

195

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