COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKINGS PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	DRAINAGE MAP
4-8	TYPICAL SECTIONS
9-10	SUMMARY OF QUANTITIES
11	SUMMARY OF DRAINAGE STRUCTURES
12	PROJECT LAYOUT
13	GENERAL NOTES
14-21	ROADWAY PLAN-PROFILES
22-49	CROSS SECTIONS
50-51	STORM WATER POLLUTION PREVENTION PLANS
52-54	TRAFFIC CONTROL PLANS
55-57	UTILITY ADJUSTMENTS

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2014 Design Standards and revised Index Drawings as appended herein, and 2014 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

DEREK D. DEAN
LICENSE
No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

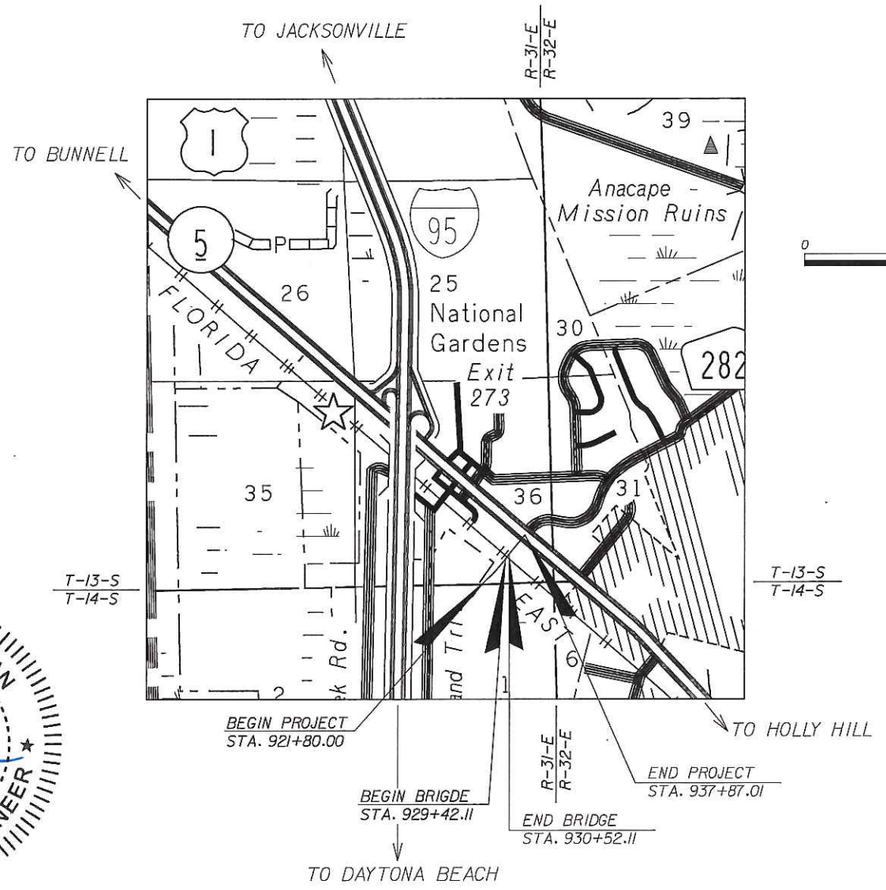
SUBMITTAL:

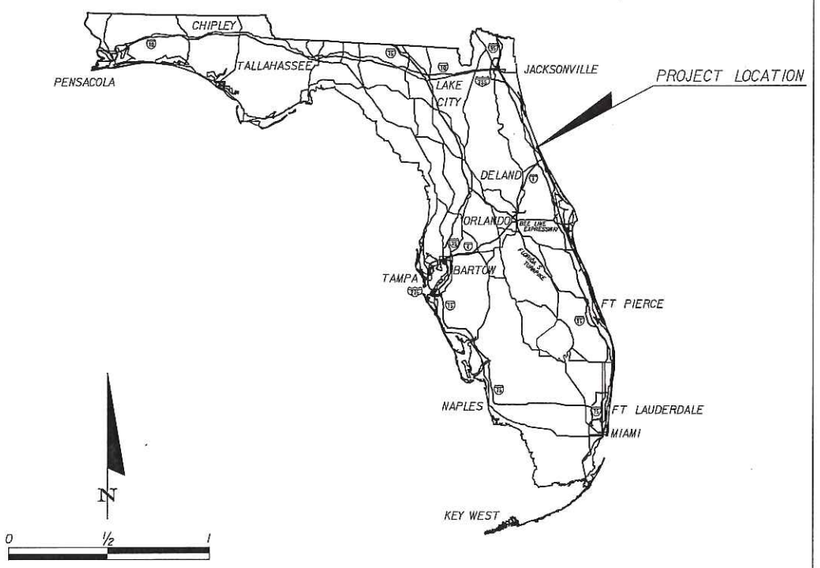
JULY 2014

TOMOKA HOLDINGS, LLC

CONTRACT PLANS

ORMOND CROSSINGS BOULEVARD PHASE I





PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1,497.01	0.283
BRIDGES	110.00	0.021
NET LENGTH OF PROJECT	1,607.01	0.304
EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	1,607.01	0.304

FDOT PROJECT LIAISON: TUSHAR PATEL

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

PLANS PREPARED BY:

Inwood consulting engineers
3000 Dovera Drive, Suite 200
Oviedo, FL 32708
Certificate Number 7074
Vendor Number 59-321-6593-002
Phone 407.971.8850 Fax 407.971.8955

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: DEREK D. DEAN, P.E.

P.E. NO.: 51905

SHEET NO. 1

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SUMMARY OF PAY ITEMS

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLANS	FINAL
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-10-3	SEDIMENT BARRIER	LF	3753	
104-18	INLET PROTECTION SYSTEMS	EA	10	
110-1-1	CLEARING & GRUBBING (7.4 AC)	LS	1	
120-1	REGULAR EXCAVATION	CY	310	
120-6	EMBANKMENT	CY	117,880	
160-4	STABILIZATION TYPE B	SY	11,241	
285-704	OPTIONAL BASE GROUP 4	SY	197	
285-709	OPTIONAL BASE GROUP 9	SY	9,169	
327-70-19	MILLING EXIST ASPH PAVT, 3/4" AVG. DEPTH	SY	5,807	
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1,575.5	
337-7-22	ASPH CONC FRICTION COURSE, INC BIT, FC-5, PG76-22	TN	279.8	
337-7-31	ASPH CONC FRICTION COURSE, TRAFFIC B, FC 12.5	TN	673.7	
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	11.3	
425-1-351	INLET, TYPE P-5, <10'	EA	9	
425-1-451	INLET, TYPE J-5, <10'	EA	1	
425-2-61	MANHOLE, TYPE P-8, <10'	EA	1	
425-2-62	MANHOLE, TYPE P-8, >10'	EA	1	
425-2-91	MANHOLE, TYPE J-8, <10'	EA	2	
430-174-201	PIPE, SIDE DRAIN, OTHER, UP TO 24"	LF	181	
430-175-101	PIPE, CROSS DRAIN, ROUND, UP TO 24"	LF	1542	
430-175-102	PIPE, CROSS DRAIN, ROUND, 25" TO 36"	LF	92	
430-175-103	PIPE, CROSS DRAIN, ROUND, 37" TO 48"	LF	267	
430-982-129	MITERED END SECTION, CROSS DRAIN, ROUND, 24"	EA	1	
430-982-140	MITERED END SECTION, CROSS DRAIN, ROUND, 42"	EA	1	
430-984-625	MITERED END SECTION, SIDE DRAIN, OTHER, 18"	EA	2	
515-2-302	PEDESTRIAN BICYCLE RAILING, ALUMINUM, 54" PICKET RAIL	LF	800	
520-1-10	CONCRETE CURB & GUTTER TYPE F	LF	5,576	
521-72-5	SHOULDER CONCRETE BARRIER WALL, CURB & GUTTER	LF	648	
522-1	SIDEWALK CONCRETE, 4" THICK	SY	2,334	
570-1-2	PERFORMANCE TURF, SOD	SY	20,169	
700-20-11	SIGN SINGLE POST (<12 SF)(F&I)	AS	10	
700-20-60	SIGN SINGLE POST (<12 SF)(REMOVE)	AS	6	
705-11-1	DELINEATOR (FLEXIBLE)	EA	2	
706-3	REFLECTIVE PAVEMENT MARKERS WHITE / RED	EA	178	
710-11-290	PAINTED PAVEMENT MARKINGS, ISLAND NOSE, YELLOW	SF	38.9	
710-11-331	PAINTED PVMT MRKS, BLACK, SKIP(10-10-30), 6"	GM	0.068	
711-11-111	THERMOPLASTIC, STD, WHITE, SOLID, 6"	NM	0.997	
711-11-122	THERMOPLASTIC, STD, WHITE, SOLID, 8"	LF	200	
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF	204	
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	40	
711-11-131	THERMOPLASTIC, STD, WHITE, SKIP (10-30), 6"	GM	0.712	
711-11-131	THERMOPLASTIC, STD, WHITE, SKIP (10-10-20), 6"	GM	0.068	
711-11-151	THERMOPLASTIC, STD, WHITE, SKIP (6-10), 6"	LF	276	
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	3	
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	EA	21	
711-11-211	THERMOPLASTIC, STD, YELLOW, SOLID, 6"	NM	0.807	
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	33	
711-11-251	THERMOPLASTIC, STD, YELLOW, SKIP (10-30), 6"	LF	132	

PAY ITEM NOTES

102-1 INCLUDES THE COST OF ALL ITEMS NEEDED FOR TRAFFIC CONTROL, I.E. SIGNS, BARRICADES, FLAGMEN, ETC. IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS AND PROCEDURES.

110-1-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO REMOVAL OF SHRUBS, THE TRIMMING OF TREES AND SHRUBS, AND ALL OTHER LABOR AND MATERIALS NECESSARY IN ORDER TO CONSTRUCT THE PROJECT. THESE OBSTRUCTIONS SHALL BE DISPOSED OF OFF SITE, IN AREAS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

120-1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING IN ORDER TO DETERMINE THE PROPER DISPOSAL PROCEDURES FOR MATERIALS REMOVED FROM THE SITE.

570-1-2 INCLUDES THE COST AND APPLICATION OF WATER AT THE RATE OF 30,000 GAL/AC, AND FERTILIZER AT THE RATE OF 400 LB/AC IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TYPES OF SODDING MAY VARY, CONTRACTOR TO MATCH EXISTING SOD AT NO ADDITIONAL COST. SOD SHALL BE CERTIFIED "SODA APPLE FREE." SUBCONTRACTOR SHALL REMOVE AND REPLACE ANY AREAS INFESTED FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF THE PROJECT.

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
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PE No. 51905
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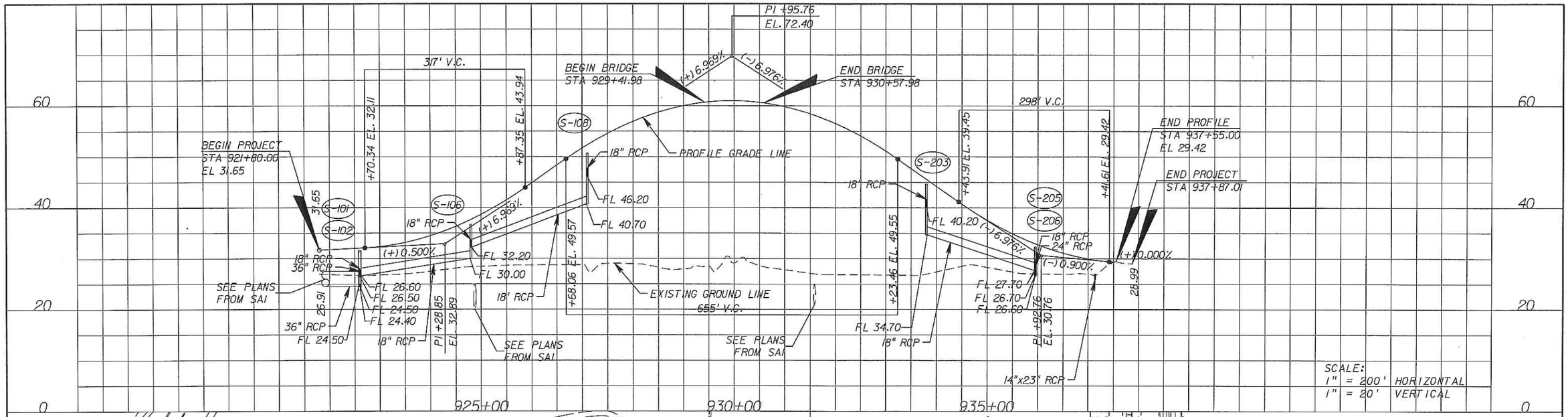
p 407.971.8850

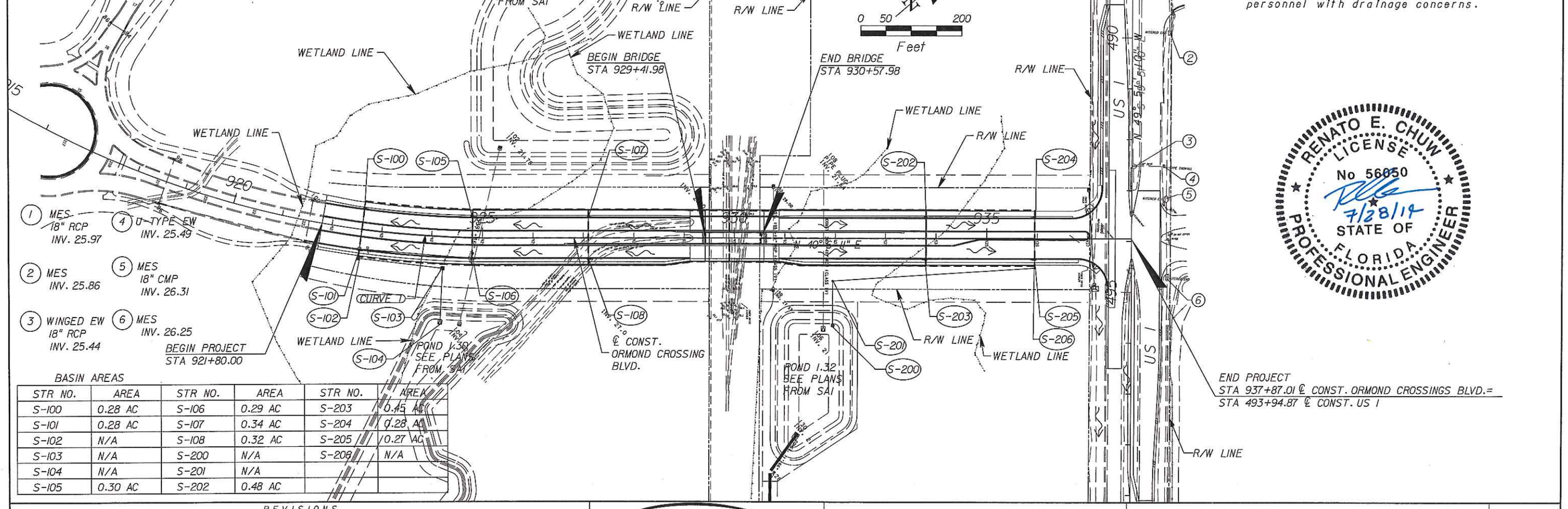
TOMOKA HOLDINGS, LLC

CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SUMMARY OF PAY ITEMS

SHEET NO. 2





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.

BASIN AREAS

STR NO.	AREA	STR NO.	AREA	STR NO.	AREA
S-100	0.28 AC	S-106	0.29 AC	S-203	0.45 AC
S-101	0.28 AC	S-107	0.34 AC	S-204	0.28 AC
S-102	N/A	S-108	0.32 AC	S-205	0.27 AC
S-103	N/A	S-200	N/A	S-206	N/A
S-104	N/A	S-201	N/A		
S-105	0.30 AC	S-202	0.48 AC		

RENATO E. CHUW LICENSE No 56050 7/28/14 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Renato E. Chuw, PE
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p 407.971.8850

TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

DRAINAGE MAP

SHEET NO. 3

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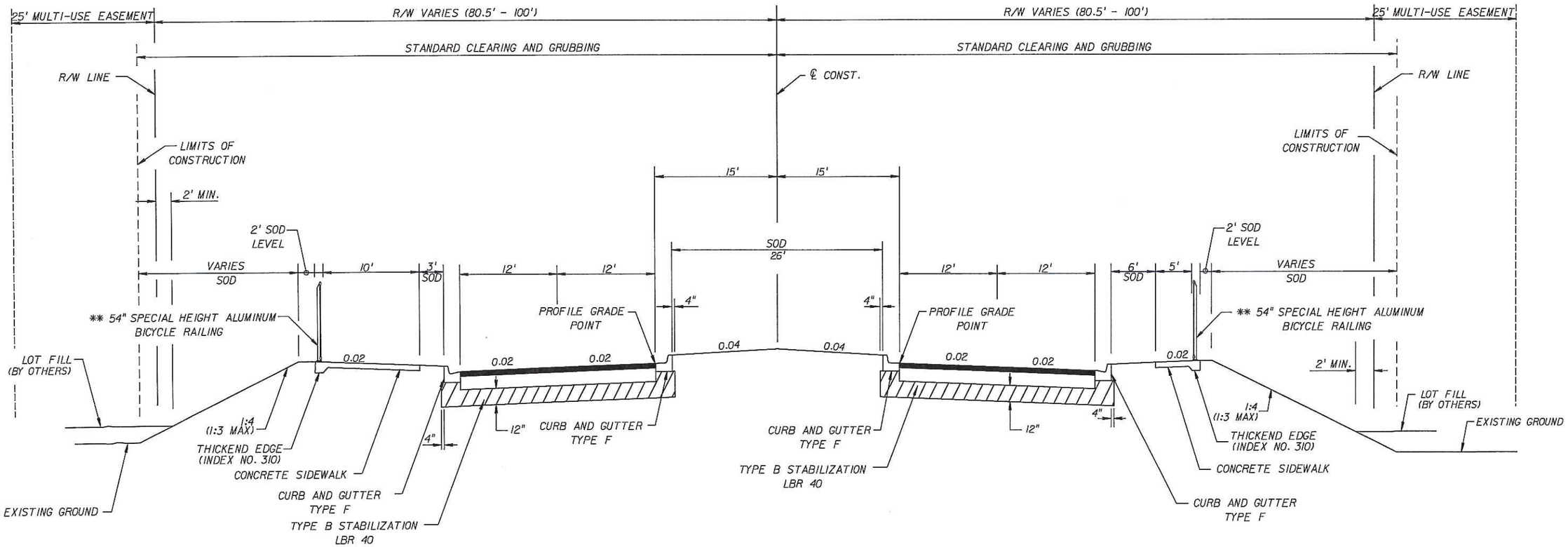

TYPICAL #1
ORMOND CROSSINGS BLVD.

STA. 921+80.00 TO STA. 926+00.00
AND
STA. 933+90.00 TO STA. 937+41.61

DESIGN SPEED 35 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-12.5 (TRAFFIC B)(1.5")(PG 76-22)(ARB)

** SEE PLANS FOR LOCATIONS

DEREK D. DEAN
LICENSE
No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TYPICAL SECTION

SHEET NO. 4

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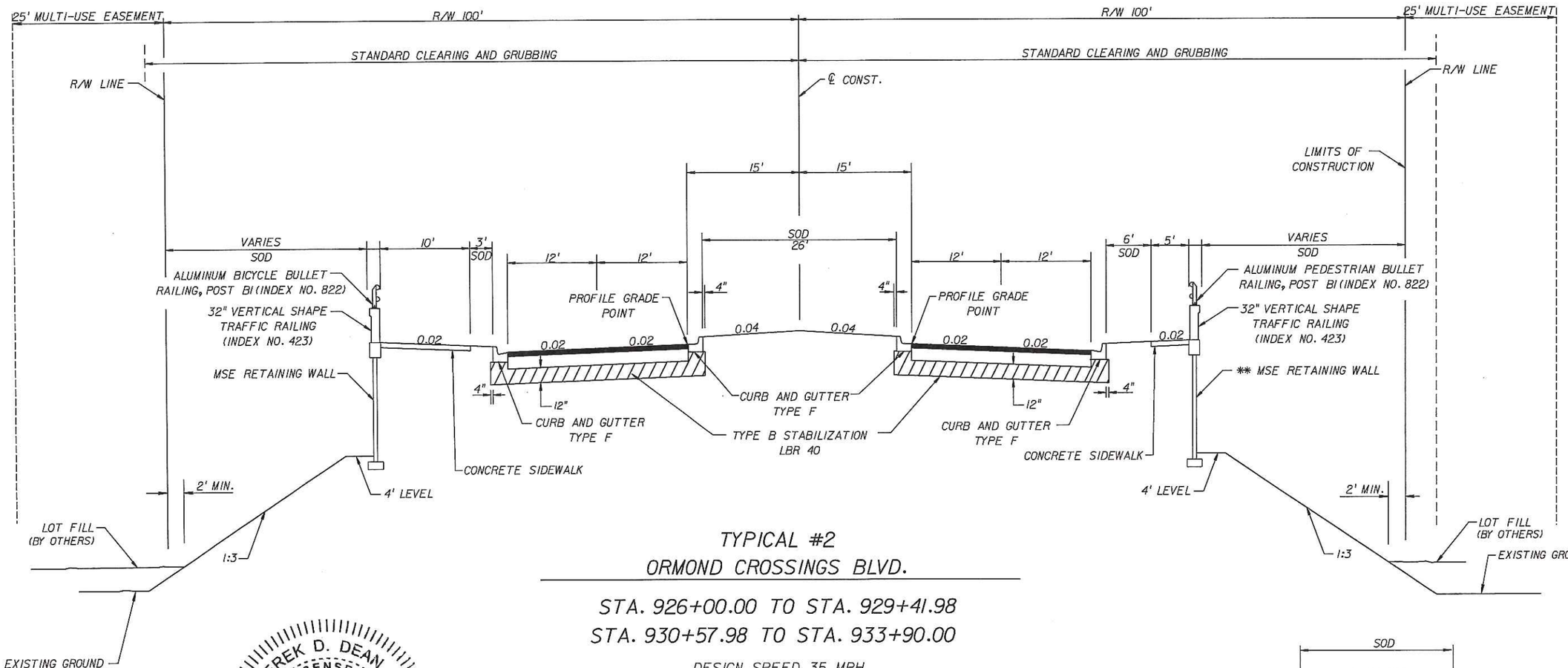


TYPICAL #2
ORMOND CROSSINGS BLVD.

STA. 926+00.00 TO STA. 929+41.98
STA. 930+57.98 TO STA. 933+90.00

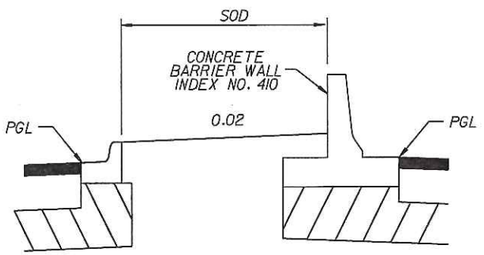
DESIGN SPEED 35 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-12.5 (TRAFFIC B)(1.5")(PG 76-22)(ARB)

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

NOTE: SEE STRUCTURES PLANS FOR BRIDGE TYPICAL SECTION FROM STA 929+41.98 TO 930+57.98.



MEDIAN DETAIL

RT. SIDE: STA 926+76.00 TO STA. 929+12.11
RT. SIDE: STA 930+82.11 TO STA. 931+07.11
LT. SIDE: STA 928+87.11 TO STA. 929+12.11
LT. SIDE: STA 930+82.11 TO STA. 933+24.00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
Certificate of Authorization No. 7074
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Oviedo, FL. 32708
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TYPICAL SECTION

SHEET NO. 5

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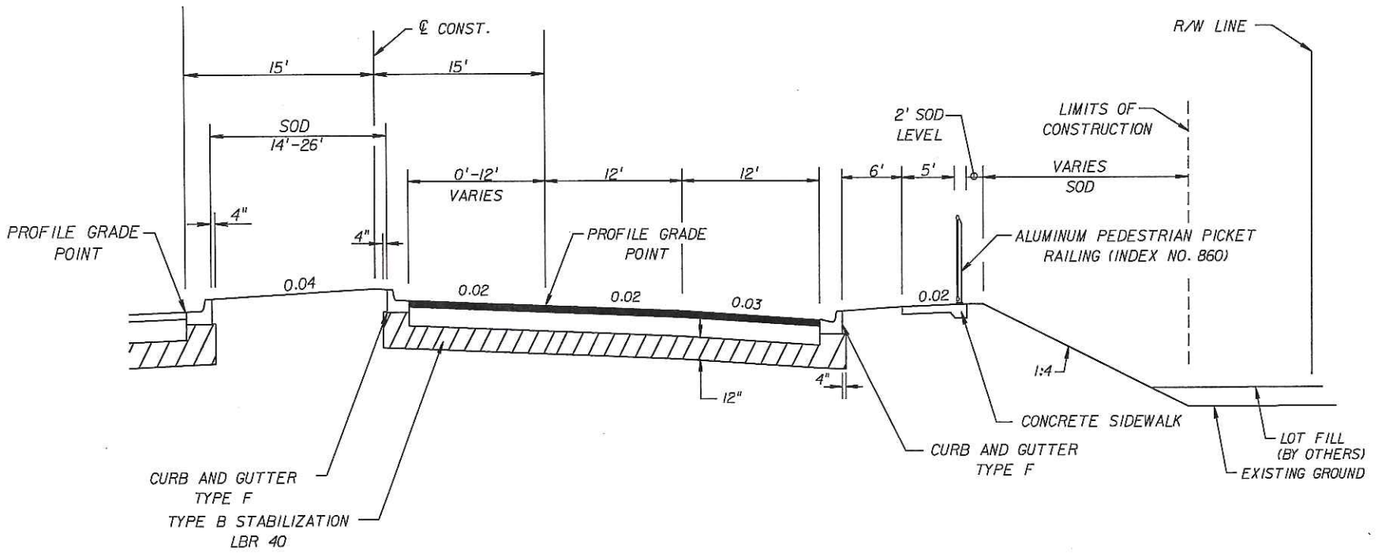

ORMOND CROSSINGS BLVD.
LEFT TURN LANE DETAIL

STA. 934+35.00 TO STA. 936+89.00

DESIGN SPEED 35 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-12.5 (TRAFFIC B)(1.5")(PG 76-22)(ARB)

DEREK D. DEAN
LICENSE
No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TYPICAL SECTION

SHEET NO. 6

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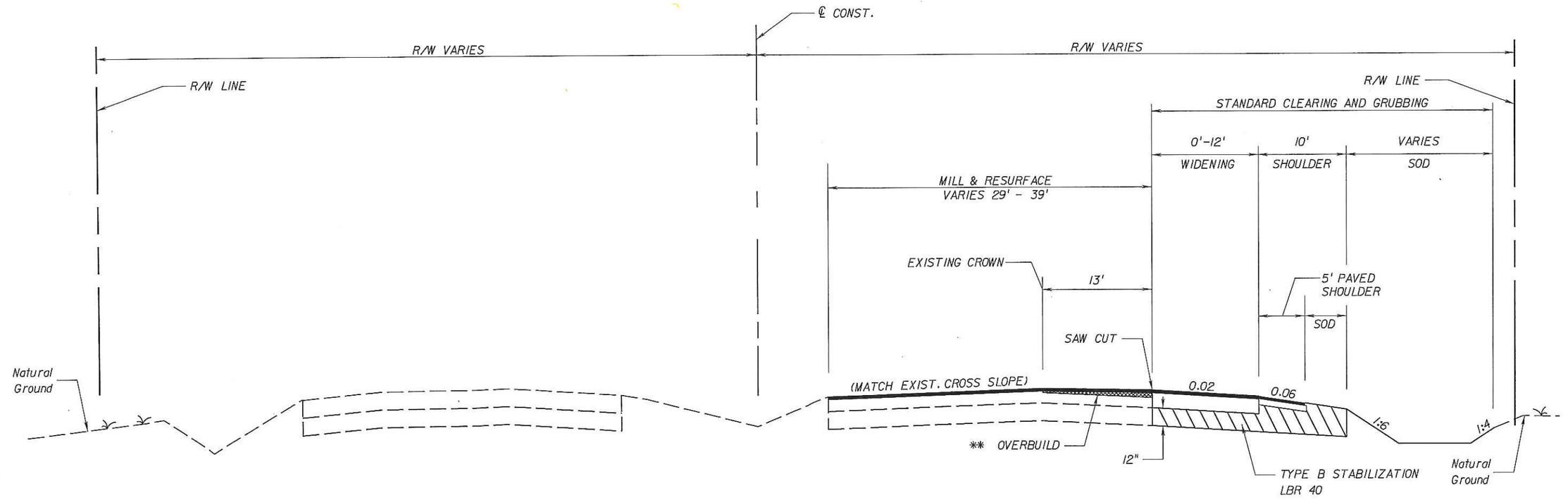

TYPICAL #4
US 1

STA. 489+34.77 TO STA. 493+00.00

DESIGN SPEED 55 MPH

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER 7-28-14

WIDENING

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-5 (0.75")(PG 76-22)(PMA)

MILLING

MILL EXISTING ASPHALT PAVEMENT (0.75" AVG. DEPTH)

RESURFACING

FRICTION COURSE FC-5 (0.75")(PG 76-22)(PMA)

OVERBUILD

TYPE SP OVERBUILD (TRAFFIC B)(1.5" AVG THICKNESS)

SHOULDER

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-5 (0.75")(PG 76-22)(PMA)

** THE OVERBUILD RANGES FROM STA. 492+60 TO STA. 495+30 TO FLATTEN THE CROSS SLOPE AT THE INTERSECTION WITH ORMOND CROSSINGS BLVD.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TYPICAL SECTION

SHEET NO. 7

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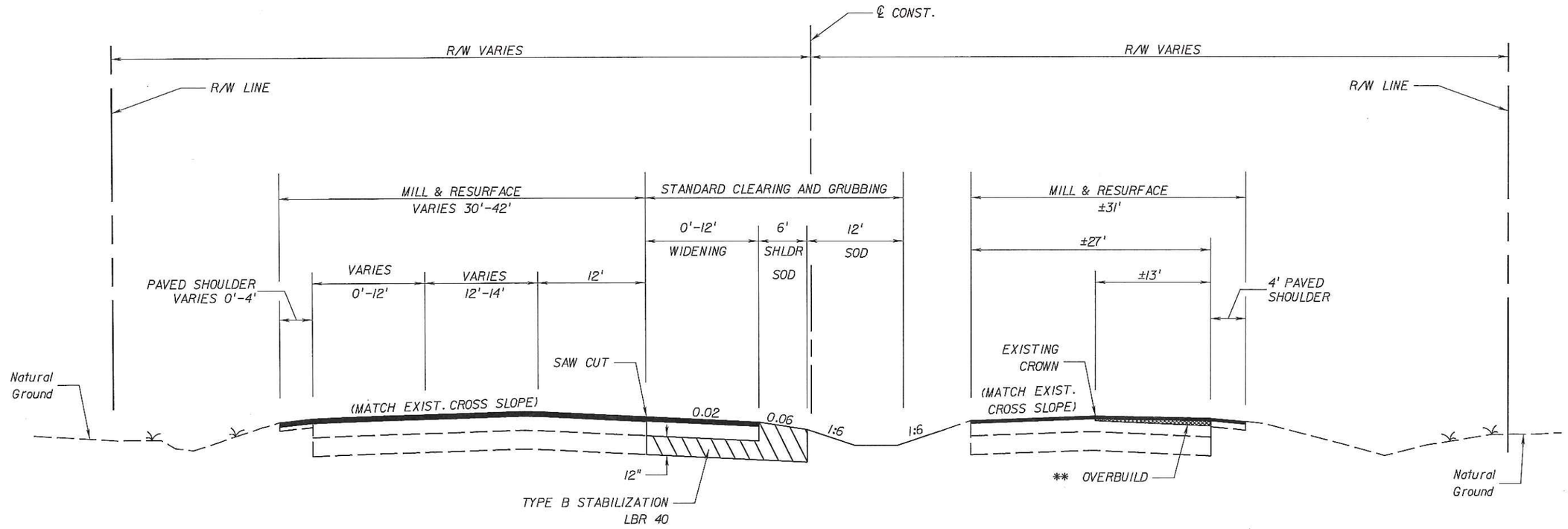

TYPICAL #5

US 1

STA. 493+00.00 TO STA. 499+10.00 (LT.)

STA. 493+00.00 TO STA. 496+50.00 (RT.)

DESIGN SPEED 55 MPH

WIDENING

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")
AND FRICTION COURSE FC-5 (0.75")(PG 76-22)(PMA)

MILLING

MILL EXISTING ASPHALT PAVEMENT (0.75" AVG. DEPTH)

RESURFACING

FRICTION COURSE FC-5 (0.75")(PG 76-22)(PMA)

OVERBUILD

TYPE SP OVERBUILD (TRAFFIC B)(1.5" AVG THICKNESS)

** THE OVERBUILD RANGES FROM STA. 492+60 TO STA. 495+30 TO FLATTEN THE CROSS SLOPE AT THE INTERSECTION WITH ORMOND CROSSINGS BLVD.

NOTE:
THE FINAL GRADE OF ORMOND CROSSINGS BLVD. (INCLUDING FRICTION COURSE) SHOULD MATCH THE FINAL GRADE OF US 1 (PRIOR TO APPLYING FRICTION COURSE) AT THE INTERSECTION.

DEREK D. DEAN
LICENSE
No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
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TOMOKA HOLDINGS, LLC	
COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TYPICAL SECTION

SHEET NO. 8

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SUMMARY OF GUARDRAIL

LOCATION		GUARDRAIL (LF)								END ANCHORAGE ASSEMBLIES (EA)								REMARKS	FIELD BOOK REFERENCE
STATION	SIDE	ROADWAY		ROADWAY, DOUBLE FACE		PEDESTRIAN SAFETY TREATMENT		RUBRAIL		FLARED		PARALLEL		TYPE II		TYPE CRT			
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
FROM 929+39.11		22				FROM		FROM											
TO 929+42.11						TO		TO											
FROM 930+52.11		22				FROM		FROM											
TO 930+55.11						TO		TO											
FROM						FROM		FROM											
TO						TO		TO											
FROM						FROM		FROM											
TO						TO		TO											
FROM						FROM		FROM											
TO						TO		TO											
FROM						FROM		FROM											
TO						TO		TO											
FROM						FROM		FROM											
TO						TO		TO											
TOTAL		44.0																	

SUMMARY OF GRAVITY WALL & ALUMINUM HANDRAIL

LOCATION STA. TO STA.	SIDE	CLASS I CONCRETE CY		ALUMINUM HANDRAIL LF		ALUMINUM BULLET RAILING LF		REMARKS	FIELD BOOK REFERENCE
		P	F	P	F	P	F		
924+00.00 TO 926+00.00	LT			200.0					
933+90.00 TO 935+80.00	LT			190.0					
924+00.00 TO 926+10.00	RT			210.0					
933+80.00 TO 935+80.00	RT			200.0					
TOTAL:				800.0					

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

SUMMARY OF EARTHWORK

DESCRIPTION	CY P	CY F
ROADWAY EXCAVATION		
ORMOND CROSSINGS	0	
US 1	310	
TOTAL EXC.	310	
ROADWAY EMBANKMENT		
ORMOND CROSSINGS	117,590	
US 1	290	
TOTAL EMB.	117,880	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
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p 407.971.8850

TOMOKA HOLDINGS, LLC

CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SUMMARY OF QUANTITIES

SHEET NO. 9

SUMMARY OF SIDEDRAIN & MITERED END SECTIONS

	LOCATION						PIPE LENGTH (LF)			MES (EA)			REMARKS
			BACK		AHEAD		OTHER			OTHER			
	STA. TO STA.	SIDE	OFFSET	F.L.	OFFSET	F.L.	UP TO 24"						
							15"	18"	24"	15"	18"	24"	
P	493+00.00 TO 494+85.00	RT.	84.60	26.40	72.93	26.10		181			2		(1:4); ℄ US 1
F													
P													
F													
P	UNIT TOTAL							181			2		
P	TOTAL							181			2		
F													

DEREK D. DEAN
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SUMMARY OF QUANTITIES

SHEET NO. 10

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	REINFORCED CONCRETE PIPE				CURB INLETS		MANHOLES			CROSS DRAIN MITERED END SECTION		SODDING	REMARKS
						ROUND SHAPE												
						UP TO 24"		25" TO 36"	37" TO 48"	P-5	J-5	P-8	P-8	J-8				
						18"	24"	36"	42"	<10'	<10'	<10'	>10'	<10'	24"	42"	SY	
P	S-100	922+60.00	LT.	Inlet, Pipe	1	77				1								
F																		
P	S-101	922+60.00	RT.	Inlet, Pipe	1			92			1							Alt B (5'x5')
F																		
P	S-102	922+60.00	RT.	Manhole, Pipe	1				165					1				Alt B (5'x5')
F																		
P	S-103	924+24.00	RT.	Manhole, Pipe	1				102					1				Alt B (5'x5')
F																		
P	S-104	924+24.00	RT.	MES	1											1	30	1:2
F																		
P	S-105	924+80.00	LT.	Inlet, Pipe	1	77				1								
F																		
P	S-106	924+80.00	RT.	Inlet, Pipe	1	221				1								
F																		
P	S-107	927+10.00	LT.	Inlet, Pipe	1	77				1								
F																		
P	S-108	927+10.00	RT.	Inlet, Pipe	1	228				1								
F																		
P	S-200	931+95.00	RT.	MES	1										1		24	1:2
F																		
P	S-201	931+95.00	RT.	Manhole, Pipe	1		82						1					
F																		
P	S-202	933+80.00	LT.	Inlet, Pipe	1	77				1								
F																		
P	S-203	933+80.00	RT.	Inlet, Pipe	1	212				1								
F																		
P	S-204	935+95.00	LT.	Inlet, Pipe	1	77				1								
F																		
P	S-205	935+95.00	RT.	Inlet, Pipe	1		15			1								
F																		
P	S-206	935+95.00	RT.	Manhole, Pipe	1		399					1						
F																		
GRAND TOTALS -				UNIT QUANTITY		1046	496	92	267	9	1	1	1	2	1	1	54	
				PLAN QUANTITY		1542		92	267	9	1	1	1	2	1	1	54	
				FINAL QUANTITY														

DEREK D. DEAN
LICENSE
No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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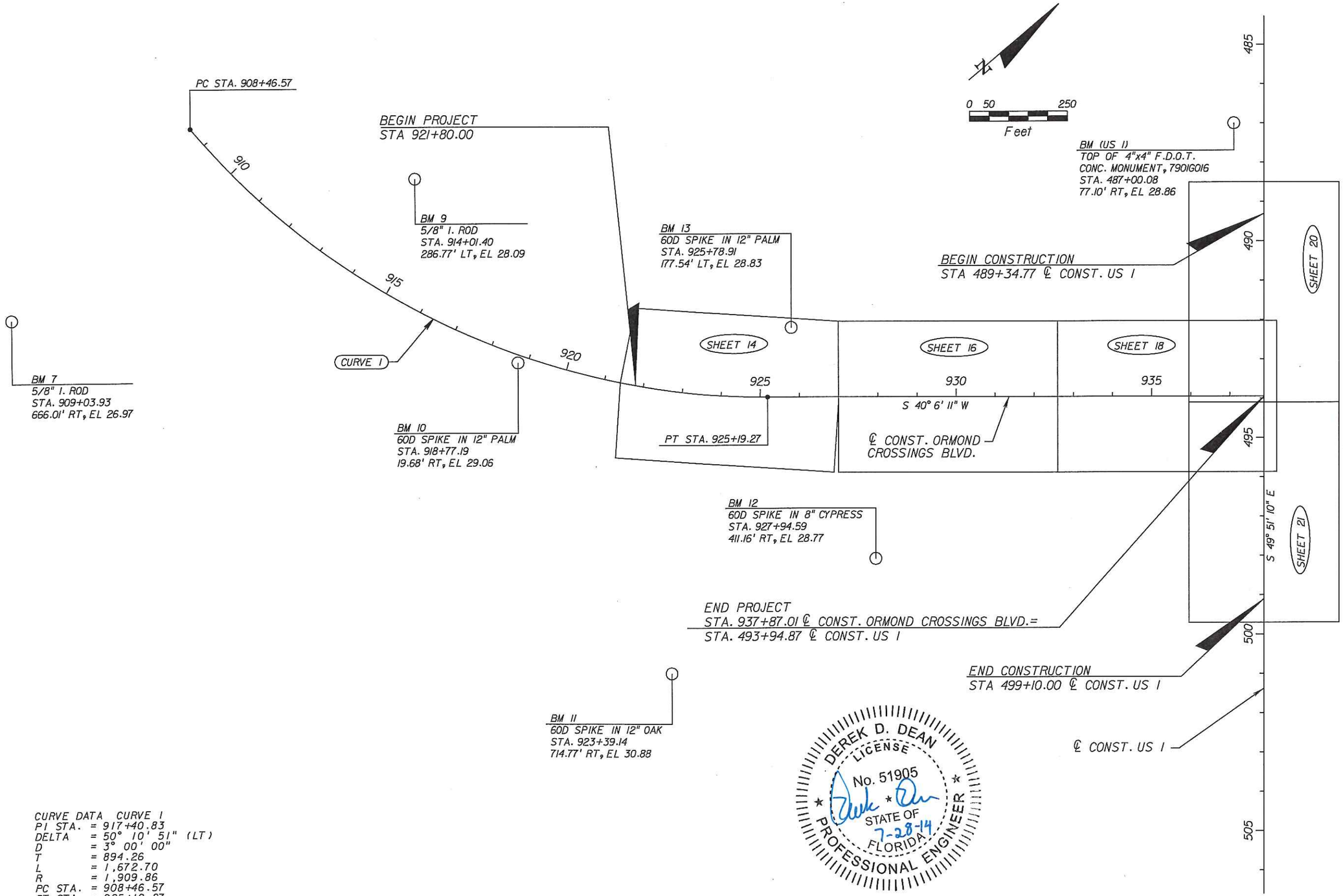
TOMOKA HOLDINGS, LLC

CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 11



CURVE DATA CURVE 1
PI STA. = 917+40.83
DELTA = 50° 10' 51" (LT)
D = 3° 00' 00"
T = 894.26
L = 1,672.70
R = 1,909.86
PC STA. = 908+46.57
PT STA. = 925+19.27
e = N.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PROJECT LAYOUT

SHEET NO. 12

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GENERAL NOTES

1. ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD NOTIFY THE FDOT DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.

2. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.

UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
FLORIDA POWER & LIGHT	TRACY STERN	
AT&T DISTRIBUTION	REBBECCA COCHRANE	(800) 868-9554
BRIGHTHOUSE NETWORKS	LARRY HENDERSON	(386) 252-0662
CITY OF ORMOND BEACH	BOB KING	(386) 446-1420
AT&T CORPORATION	GREG JACOBSON	(386) 676-3269
TRAFFIC CONTROL DEVICES	GRADY HUTCHINS	(813) 342-0512
TECO PEOPLES GAS	BROOKE STONE	(407) 448-1117
VOLUSIA COUNTY WATER & UTILITY SERVICES	ALAN FERGUSON	(386) 671-2235 (386) 822-6465

3. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE FDOT DISTRICT CONTAMINATION IMPACTS COORDINATOR (DCIC). THE CONTRACTOR SHALL PROVIDE THE DCIC WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ENGINEER SHALL COORDINATE WITH THE DCIC PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.

4. ALL SOD MATERIALS ALONG SR 5/US 1 SHALL BE SUBJECT TO INSPECTION BY THE DEPARTMENT PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES, INCLUDING TROPICAL SODA APPLE SHALL BE REJECTED FOR USE ON PROJECT.

5. ALL EROSION CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

6. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

7. ALL LANES ON SR 5 (US 1) MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.

8. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

9. ALL MILLED AREAS WILL BE COVERED WITH TYPE SP THE SAME DAY THAT MILLING OCCURS.

10. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THOSE LOCATIONS.

11. ON US 1 THE NEAREST MEDIAN OPENINGS TO THE PROJECT IS APPROXIMATELY 990 FEET NORTH AND 1000 FEET SOUTH.

12. CONTRACTOR SHALL SAW CUT A CLEAN EDGE AND REMOVE THE EXISTING ASPHALT AND BASE ALONG THE WHITE AND YELLOW EDGE LINES NEXT TO EACH TURN LANE.

13. CURB INLET ELEVATIONS ARE TO THE EDGE OF PAVEMENT.

14. BENCH MARK DATUM USED FOR PROJECT IS NAVD 1988.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC	
CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

GENERAL NOTES

SHEET NO. 13

S-100

STA 922+60.00 (40.25 LT.)
CONST. INLET TYPE P-5
INLET EL 31.43
FL 27.20 (RT)
INDEX NO.'S 200 AND 211

S-101

STA 922+60.00 (40.25 RT.)
CONST. INLET TYPE J-5
WITH J-BOT, ALT B (5'X5')
INLET EL 31.43
FL 27.00 (LT)
FL 24.50 (RT)
FL 27.00 (AH)
FL 24.50 (BK)
INDEX NO.'S 200 AND 211

S-102

STA 922+60.00 (57.50 RT.)
CONST. MANHOLE TYPE J-8
WITH J-BOT, ALT B (5'X5')
TOP EL 31.60
FL 24.40 (LT)
FL 23.70 (AH)
INDEX NO.'S 200 AND 201

CURVE DATA CURVE 1
PI STA. = 917+40.83
DELTA = 50° 10' 51" (LT)
D = 3° 00' 00"
T = 894.26
L = 1,672.70
R = 1,909.86
PC STA. = 908+46.57
PT STA. = 925+19.27
e = N.C.

DEREK D. DEAN
LICENSE
No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-14-28

POND 1.10
SEE PLANS
FROM SAI

0 10 40
Feet

60" PIPE
SEE PLANS
FROM SAI

PROPOSED 25'
MULTI-USE EASEMENT

R/W LINE

+19.27
100.00' (LT)

16" WM (SEE SAI PLANS)

+61.81
93.83' (LT)

MSE RETAINING WALL;
SEE STRUCTURES PLANS
FOR DETAILS

ALUMINUM BICYCLE RAILING

+80.00
56.00' (LT)

+40.00
54.00' (LT)

END ALUMINUM BICYCLE RAILING
STA. 925+60.00 (LT)

BEGIN ALUMINUM BICYCLE
RAILING
STA. 924+00.00 (LT.)

10' CONC. SIDEWALK

100'

S-100

S-105

C & G TYPE F

BEGIN CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 926+72.98

24'

15'

SEE PLANS
FROM SAI

℄ CONST. ORMOND CROSSINGS BLVD.

922 923 924 925 926 927

PT STA. 925+19.27

15'

N 40° 6' 11" E

24'

100'

77 LF OF 18" RCP

77 LF OF 18" RCP

C & G TYPE F

228 LF OF
18" RCP

MSE RETAINING WALL;
SEE STRUCTURES PLANS
FOR DETAILS

80 LF OF 36" RCP

S-101

12 LF OF 36" RCP

221 LF OF 18" RCP

CURVE 1

S-106

S-102

5' CONC. SIDEWALK

END ALUMINUM BICYCLE RAILING
STA. 925+80 (RT)

S-103

165 LF OF 42" RCP

ALUMINUM BICYCLE
RAILING

+80.00
52.00' (RT)

12" RM (SEE SAI PLANS)

16" FM (SEE SAI PLANS)

TOP OF SLOPE
TOE OF SLOPE
TOP OF SLOPE
TOE OF SLOPE
TOP OF SLOPE
TOE OF SLOPE
TOP OF SLOPE

BEGIN PROJECT
STA 921+80.00

R/W LINE

BEGIN ALUMINUM BICYCLE
RAILING
STA. 924+00.00 (RT)

PROPOSED 25'
MULTI-USE EASEMENT

+38.11
100.00' (RT)

102 LF OF 42" RCP

S-104

POND 1.30
SEE PLANS
FROM SAI

S-103

STA 924+24.00 (62.00 RT.)
CONST. MANHOLE TYPE J-8
WITH J-BOT, ALT B (5'X5')
TOP EL 33.35
FL 22.70 (RT)
FL 23.40 (BK)
INDEX NO.'S 200 AND 201

S-104

STA 924+24.00 (165.73 RT.)
CONST. MES (1:2)
FL 22.50 (RT)
INDEX NO. 272

S-105

STA 924+80.00 (40.25 LT.)
CONST. INLET TYPE P-5
INLET EL 37.01
FL 32.80 (RT)
INDEX NO.'S 200 AND 211

S-106

STA 924+80.00 (40.25 RT.)
CONST. INLET TYPE P-5
INLET EL 37.01
FL 32.60 (AH)
FL 32.60 (BK)
FL 32.60 (LT)
INDEX NO.'S 200 AND 211

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PLAN

SHEET NO. 14

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DEREK D. DEAN
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

K = 49
317' V.C.

+70.35 EL. 32.10
32.16
32.34
32.60
32.94
33.37
33.88
34.47
35.14
35.89
36.72
37.63
38.63
39.71
40.87
42.11
43.43
+87.35 EL. 43.94
6.969%
+68.06 EL. 49.57
50.38
51.68
51.68
K = 47
655' V.C.

PROFILE GRADE LINE
S-106
18" RCP
18" RCP
PHASE I
31.65
S-101
S-102
(+) 0.500%
(+) 6.969%
(+) 0.500%
PI 428.65
EL. 32.89
FL 32.60
18" RCP
18" RCP
36" RCP
BEGIN PROJECT
BEGIN PROFILE
STA 921+80.00
28.77
EXISTING GROUND LINE
@ ℄ CONST.
36" RCP
FL 27.00
36" RCP
SCALE: 10' 1'
FL 24.50
FL 24.40
FL 23.70
FL 20.00
SEE PLANS
FROM SAI

922+00
923+00
924+00
925+00
926+00
927+00

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PROFILE

SHEET NO. 15

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POND 1.10
SEE PLANS
FROM SAI

S-107
STA 927+10.00 (40.25 LT)
CONST. INLET TYPE P-5
~~INLET EL 51.68~~
FL 47.40 (RT)
INDEX NO.'S 200 AND 211

S-108
STA 927+10.00 (40.25 RT)
CONST. INLET TYPE P-5
~~INLET EL 51.68~~
FL 47.20 (LT)
FL 40.70 (BK)
INDEX NO.'S 200 AND 211

R/W LINE

+50.07
125.00' (LT)

+49.91
99.98' (LT)

PROPOSED 25'
MULTI-USE EASEMENT

R/W LINE

4' 4 STRAND BARBED WIRE FENCE

TOE OF SLOPE

R/W LINE

TOP OF SLOPE

+50.10
162.45' (LT)

+50.04
162.28' (LT)

+50.07
125.00' (LT)

+50.05
100.00' (LT)

48" PIPE
SEE PLANS
FROM SAI

PROPOSED 25'
MULTI-USE EASEMENT

R/W LINE

PIPE
SEE PLANS
FROM SAI

0 10 40
Feet

MSE RETAINING WALL; SEE
STRUCTURES PLANS FOR DETAILS

16" WM (SEE SAI PLANS)

MSE RETAINING WALL; SEE
STRUCTURES PLANS FOR DETAILS

10' CONC. SIDEWALK

10' CONC. SIDEWALK

100'

24'

15'

S-107

C & G TYPE F

TOE OF SLOPE TOE OF SLOPE TOE OF SLOPE TOP OF SLOPE

5' MISCELLANEOUS
ASPHALT
CONST. 22 LF
GUARDRAIL

END CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 929+41.98

BEGIN CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 930+57.98

CONC. BARRIER WALL
INDEX NO. 410
C & G TYPE F

927 928 929 930 931 932

BEGIN CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 928+86.98

N 1° 40' 6" E

77 LF OF 18" RCP

5' MISCELLANEOUS
ASPHALT

END APPROACH SLAB
STA. 930+87.98

TOP OF SLOPE TOE OF SLOPE TOE OF SLOPE TOP OF SLOPE

℄ CONST. ORMOND CROSSINGS BLVD.

12" RM (SEE SAI PLANS)

CONST. 22 LF GUARDRAIL

16" FM (SEE SAI PLANS)

END CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 931+12.98

C & G TYPE F

S-108

C & G
TYPE F

CONC. BARRIER WALL
INDEX NO. 410

BEGIN APPROACH SLAB
STA. 929+11.98

5' CONC. SIDEWALK

5' CONC. SIDEWALK

MSE RETAINING WALL; SEE
STRUCTURES PLANS FOR DETAILS

18" RCP

END BRIDGE
BEGIN APPROACH
SLAB
STA. 930+57.98

PROPOSED 25'
MULTI-USE EASEMENT

S-201

24" RCP

+49.91
100.00' (RT)

+49.91
100.00' (RT)

TOP OF RAIL TOP OF RAIL TOP OF RAIL TOP OF RAIL

+49.89
125.00' (RT)

+49.89
125.00' (RT)

R/W LINE

PROPOSED 25'
MULTI-USE EASEMENT

BEGIN CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 930+57.98

R/W LINE

82 OF 24" RCP

BEGIN BRIDGE
END APPROACH SLAB
STA. 929+41.98

MSE RETAINING WALL;
SEE STRUCTURES PLANS
FOR DETAILS

S-200
STA 931+95.00 (170.44' RT)
CONST. MES (1:2)
FL 24.00 (RT)
INDEX NO. 272

S-201
STA 931+95.00 (84.00' RT)
CONST. MANHOLE TYPE P-8
TOP EL 36.17
FL 26.50 (RT)
FL 26.50 (AH)
INDEX NO.'S 200 AND 201

END CONCRETE BARRIER
WALL, INDEX NO. 410
STA. 929+41.98

POND 1.30
SEE ORMOND CROSSINGS
PHASE I

POND 1.32
SEE PLANS
FROM SAI

S-200

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STATE OF
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PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PLAN

SHEET NO. 16

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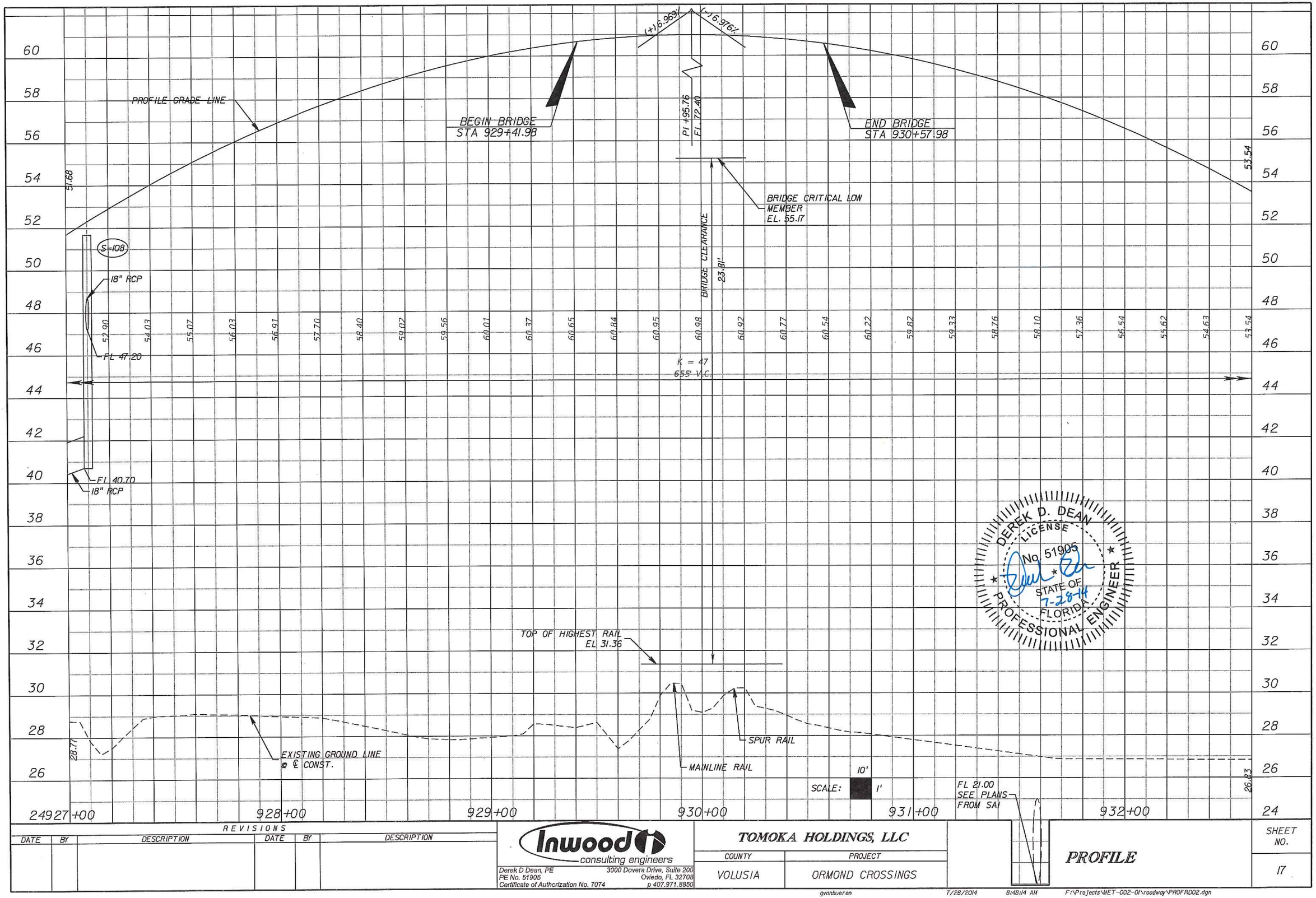

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PROFILE

SHEET NO. 17

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S-202
STA 933+80.00 (40.25 LT)
CONST. INLET TYPE P-5
INLET EL 44.98
FL 40.70 (RT)
INDEX NO.'S 200 AND 211

S-203
STA 933+80.00 (40.25 RT)
CONST. INLET TYPE P-5
INLET EL 44.98
FL 40.50 (LT)
FL 34.70 (AH)
INDEX NO.'S 200 AND 211

S-204
STA 935+95.00 (40.25 LT)
CONST. INLET TYPE P-5
INLET EL 32.31
FL 28.10 (RT)
INDEX NO.'S 200 AND 211

S-205
STA 935+95.00 (40.25 RT)
CONST. INLET TYPE P-5
INLET EL 32.07
FL 27.60 (LT)
FL 27.10 (RT)
FL 27.60 (BK)
INDEX NO.'S 200 AND 211

S-206
STA 935+95.00 (58.00' RT)
CONST. MANHOLE TYPE P-8
TOP EL 32.60
FL 27.00 (LT)
FL 27.00 (BK)
INDEX NO.'S 200 AND 201

N
0 10 40
Feet

PROPOSED 25' MULTI-USE EASEMENT
16" WM (SEE SAI PLANS)
R/W LINE
6" RM (SEE SAI PLANS)
8" WM (SEE SAI PLANS)
+04.71 100.00' (LT)
R/W LINE +04.65 125.00' (LT)
+89.81 57.34' (RT)
SHOULDER LINE
493
BEGIN ALUMINUM BICYCLE RAILING STA. 934+40.00
MSE RETAINING WALL; SEE STRUCTURES PLANS FOR DETAILS
ALUMINUM BICYCLE RAILING
END ALUMINUM BICYCLE RAILING STA.935+80.00 (LT.)
+69.97 54.00' (LT)
+04.03 69.59' (LT)
RETURN 1
END SIDEWALK STA. 937+13.78 61.23' (LT)
10' CONC. SIDEWALK
+69.76 41.00' (LT)
60' R
+09.89 57.12' (LT)
100'
24'
15'
END CONCRETE BARRIER WALL, INDEX NO. 410 STA. 933+26.98
77 LF OF 18" RCP
S-202
C & G TYPE F
12" RM (SEE SAI PLANS)
S-204
181 LF OF 14"X23" ERCP
+80.00 6.00' (LT)
℄ CONST. US 1
75' R
933
934
935
8" SANITARY (SEE SAI PLANS)
936
937
90°2'39"
N 40° 6' 11" E
℄ CONST. ORMOND CROSSINGS BLVD.
+35.00 15.00' (RT)
+85.00 3.00' (RT)
77 LF OF 18" RCP
END ALUMINUM BICYCLE RAILING STA. 935+80.00 (RT.)
C & G TYPE F
494
N 49° 51' 10" W
16" FM (SEE SAI PLANS)
S-203
212 LF OF 18" RCP
S-205
RETURN 2
60' R
5' CONC. SIDEWALK
+81.75 41.00' (RT)
MSE RETAINING WALL; SEE STRUCTURES PLANS FOR DETAILS
BEGIN ALUMINUM BICYCLE RAILING STA. 934+30.00
S-206
15 LF OF 24" RCP
+81.75 52.00' (RT)
+17.49 68.47' (RT)
+00.03 45.19' (RT)
8" SANITARY (SEE SAI PLANS)
399 LF OF 24" RCP
END SIDEWALK STA. 937+25.85, 61.33' (RT)
495
PROPOSED 25' MULTI-USE EASEMENT
R/W LINE
+04.54 100.00' (RT)
+04.52 125.00' (RT)
END PROJECT
STA. 937+87.01 ℄ ORMOND CROSSINGS BLVD. =
STA. 493+94.87 ℄ US 1
R/W LINE

DEREK D. DEAN
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No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

RETURN NO.	PC			PT			
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	C.R.
1	936+69.76	39.00' LT	30.11	492+95.81	57.33' RT	29.08	C.R. K
2	936+81.75	39.00' RT	29.72	494+94.03	45.18' RT	29.10	C.R. K

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PLAN

SHEET NO. 18

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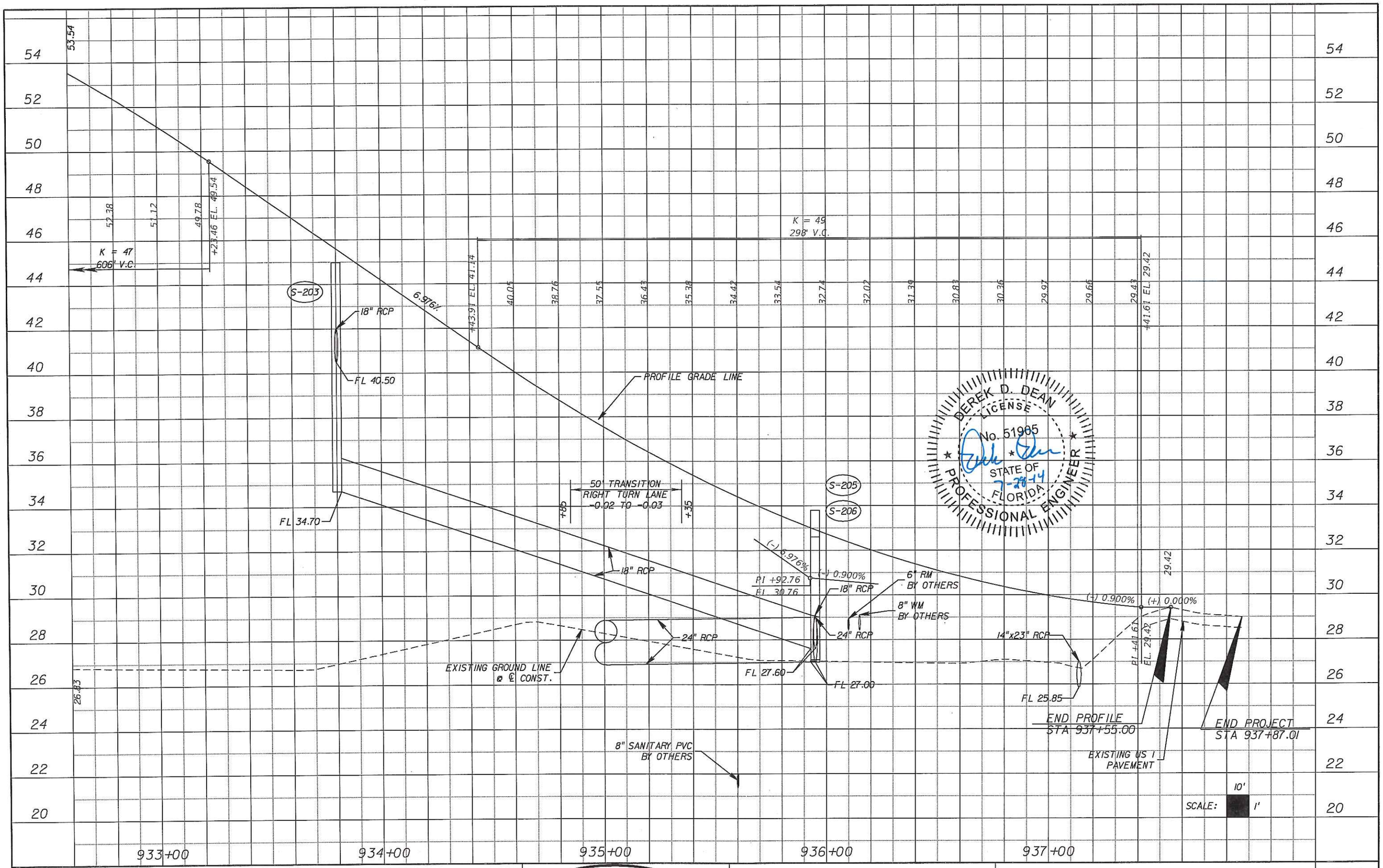

DEREK D. DEAN
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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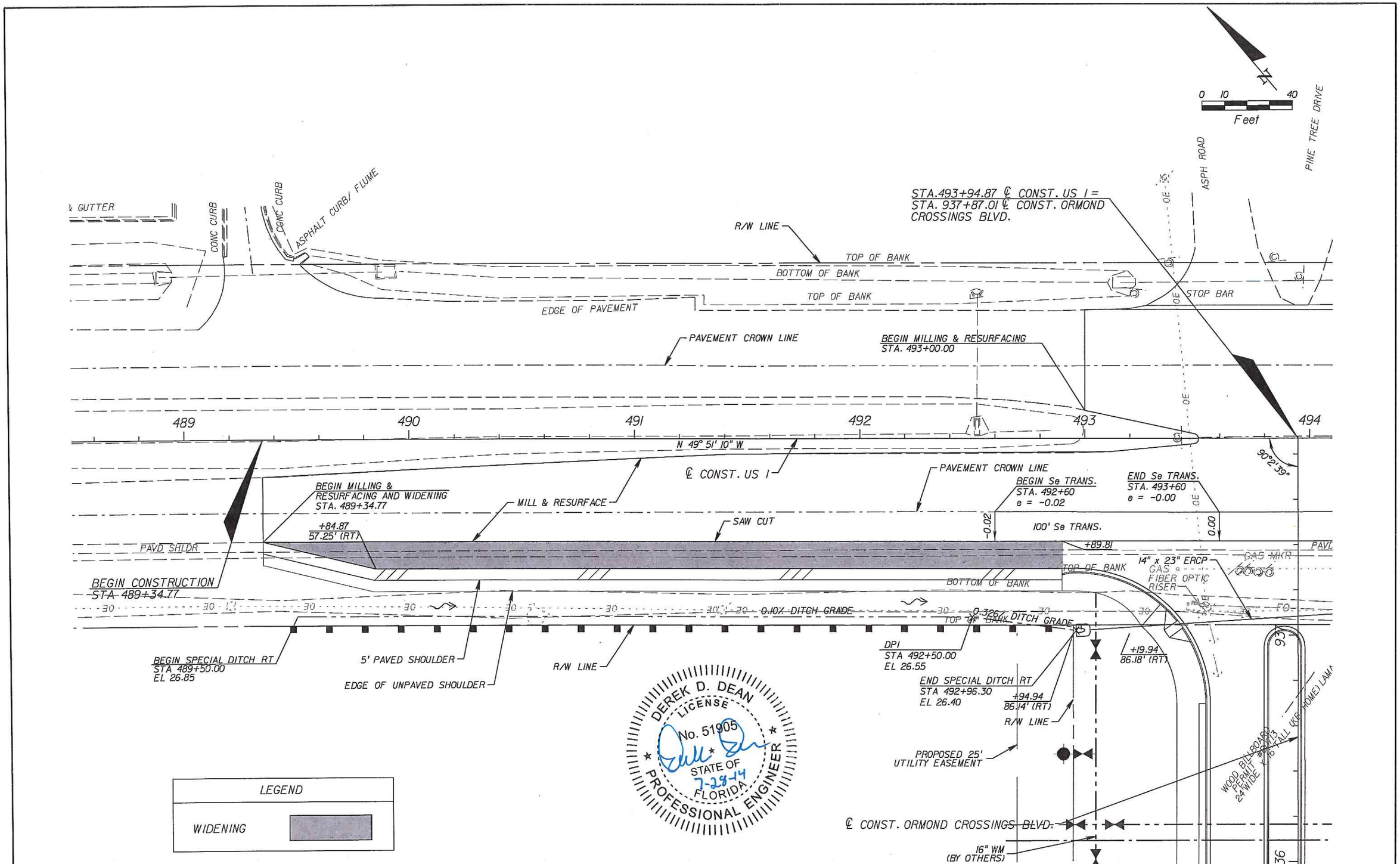
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PROFILE

SHEET NO. 19

gvanbueren 7/28/2014 8:48:19 AM F:\Projects\MET-002-01\roadway\PROFRD03.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PLAN

SHEET NO.
20

gvanbueren 7/28/2014 8:48:21 AM F:\Projects\MET-002-01\roadway\PLANRD04.DGN

0 10 40
Feet

ASPH ROAD
BREAKLINE
BREAKLINE
BREAKLINE
TOP OF BANK
BOTTOM OF BANK
ASPHALT PAVEMENT
R/W LINE
6' CLF
CONC S/W
BOTTOM OF BANK
4' PAVED SHOULDER
ASPH SHOULDER
EDGE OF PAVT
END MILLING & RESURFACING & WIDENING
STA. 499+10.00
END CONSTRUCTION
STA 499+50.00
PAVD SHLDR
PAVEMENT CROWN LINE
MILL & RESURFACE
BEGIN SPECIAL DITCH MEDIAN
STA 495+00.00, 3.25 RT
EL 27.75
+57.72
0.67' (LT)
EDGE OF PAVT
+60.00
6.67' (LT)
DPI, EL 26.98
STA 499+00.00, 0.68 RT
TOP OF BANK
BOTTOM OF BANK
N 49° 51' 10" W
495
496
497
498
499
6 R
SHOULDER LINE
DPI, EL 27.60
STA 496+00.00, 5.65 RT
TOP OF BANK
BEGIN WIDENING
STA. 494+34.32
BEGIN Se TRANS.
STA. 494+30
e = 0.00
END Se TRANS.
STA. 495+30
e = -0.02
PAVEMENT CROWN LINE
EDGE OF PAVT.
C&G TYPE E
+10.00
5.16' (RT)
℄ CONST. US 1
END SPECIAL DITCH MEDIAN
STA 499+50.00, 0.56 LT
EL 26.73
DPI, EL 27.23
STA 498+50.00, 5.07 RT
0.00
100' Se TRANS
-0.02
MILL & RESURFACE
PAVD SHLDR
14" x 23" ERCP
CAS
5'x5' SUMP
EL 26.10
4' PAVED SHOULDER
END MILLING & RESURFACING
STA. 496+50.00
+94.94
82.39' (RT)
+69.94
82.39' (RT)
R/W LINE
FIBER OPTIC MARKER
PROPOSED 25' UTILITY EASEMENT
R/W LINE
12" FM

LEGEND

WIDENING

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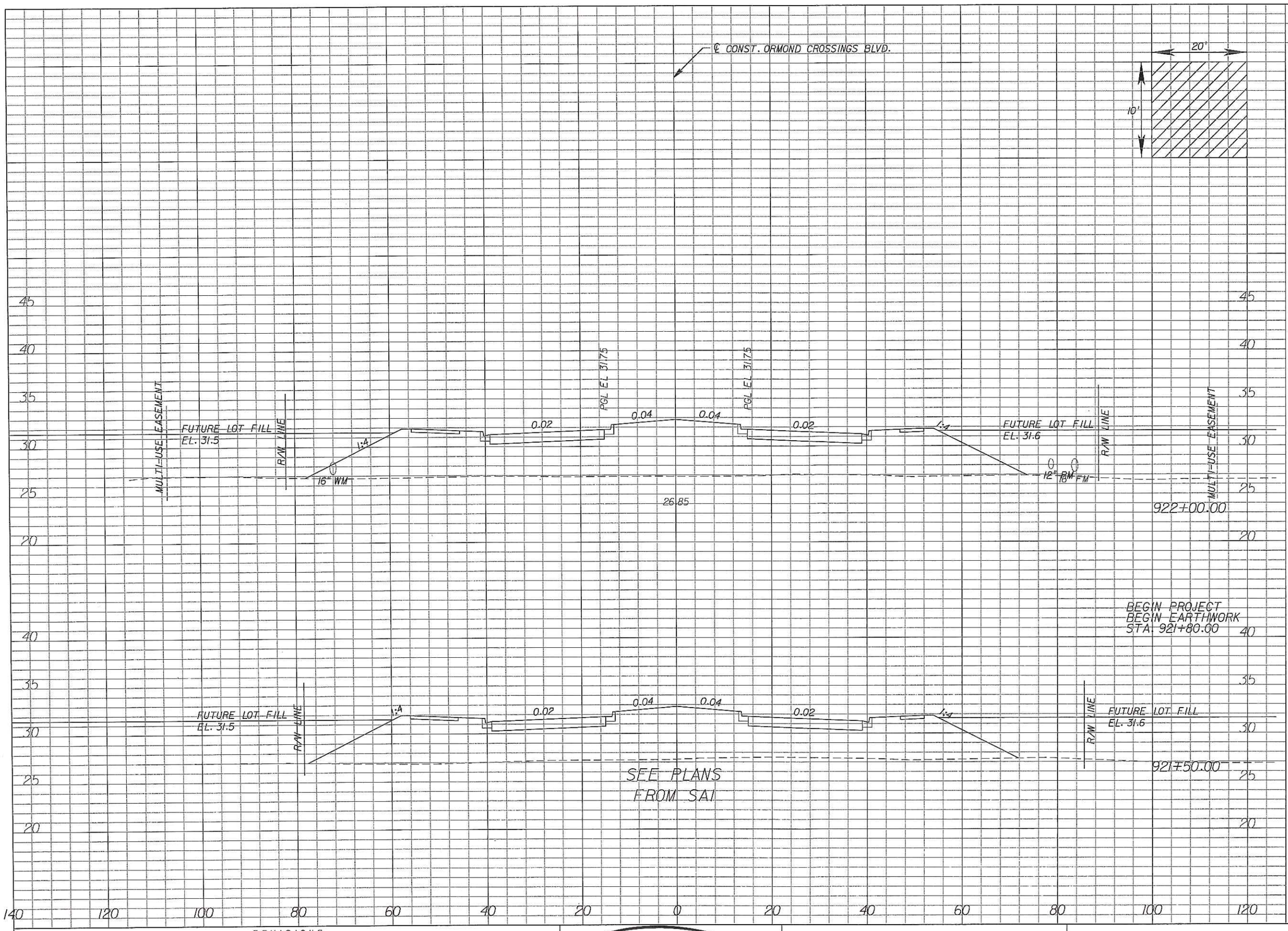
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

PLAN

SHEET NO. 21

gvanbueren 7/28/2014 8:48:23 AM F:\Projects\MET-002-01\roadway\PLANRD05.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	644.3	473
0.0		632.3	

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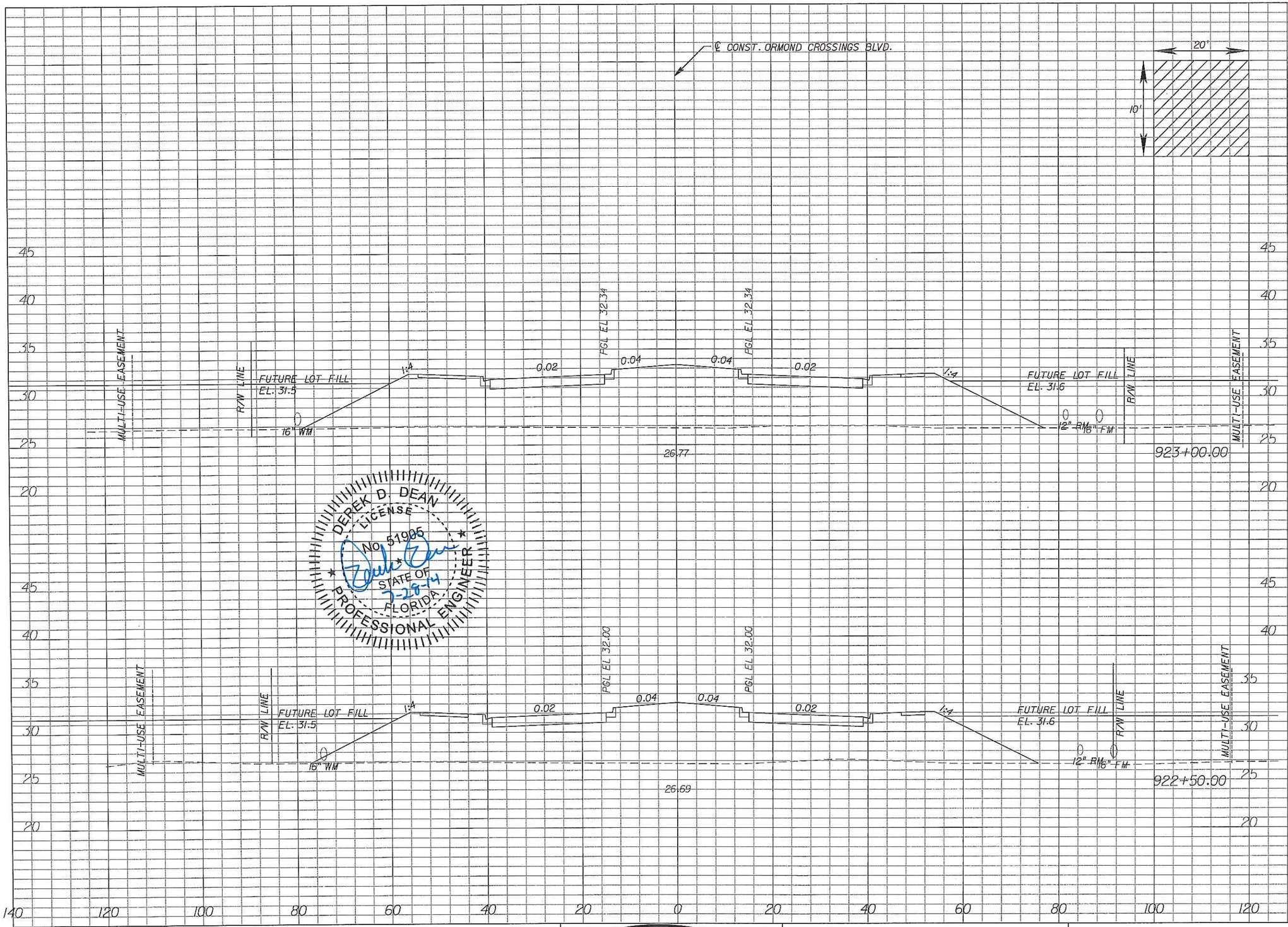
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 22

gvanbueren 7/28/2014 8:48:27 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	672.0	1209
0.0	0	633.2	1183

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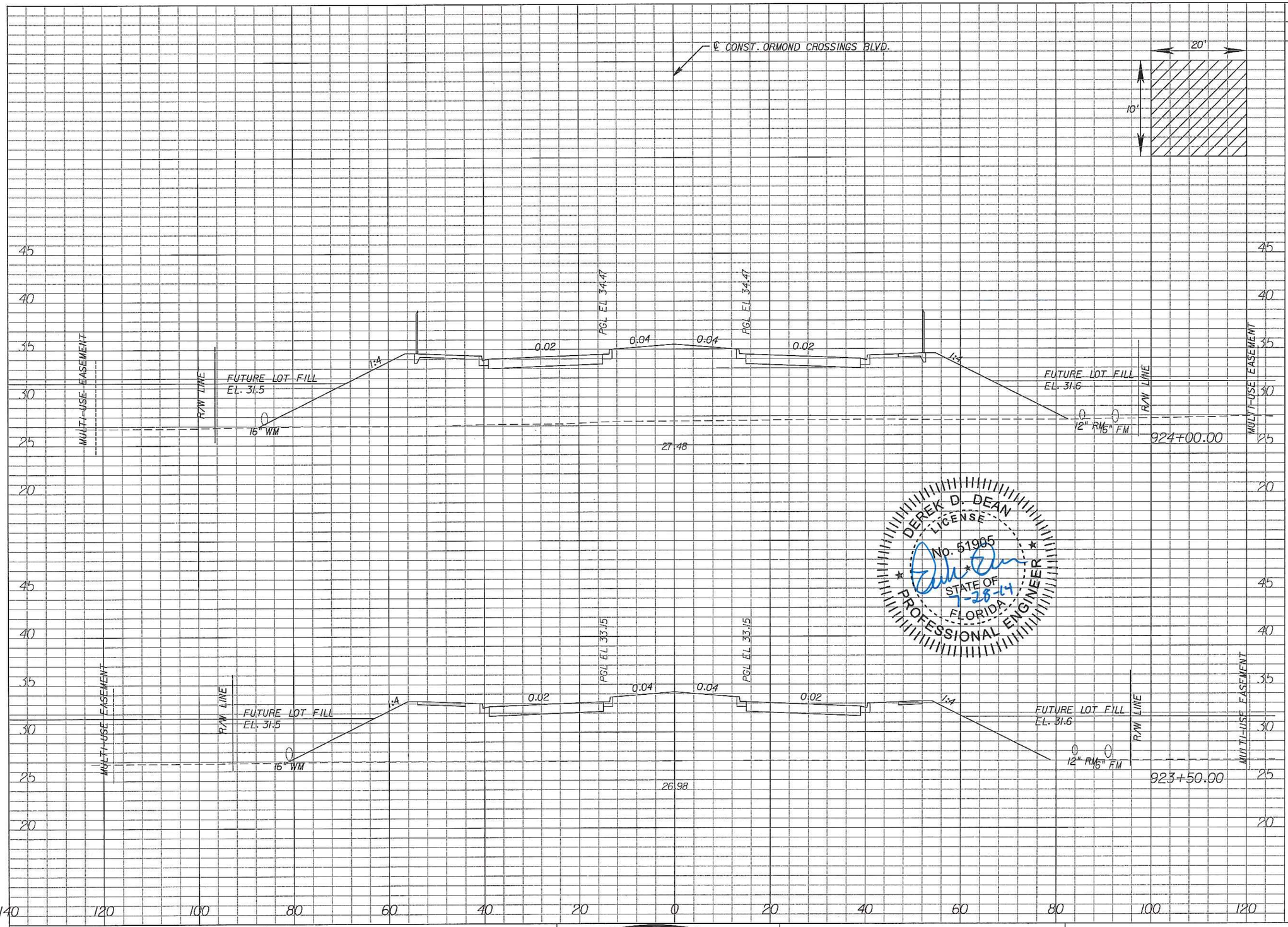
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 23

gvonbueren 7/28/2014 8:48:28 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	898.0	1533
0.0	0	757.9	1324

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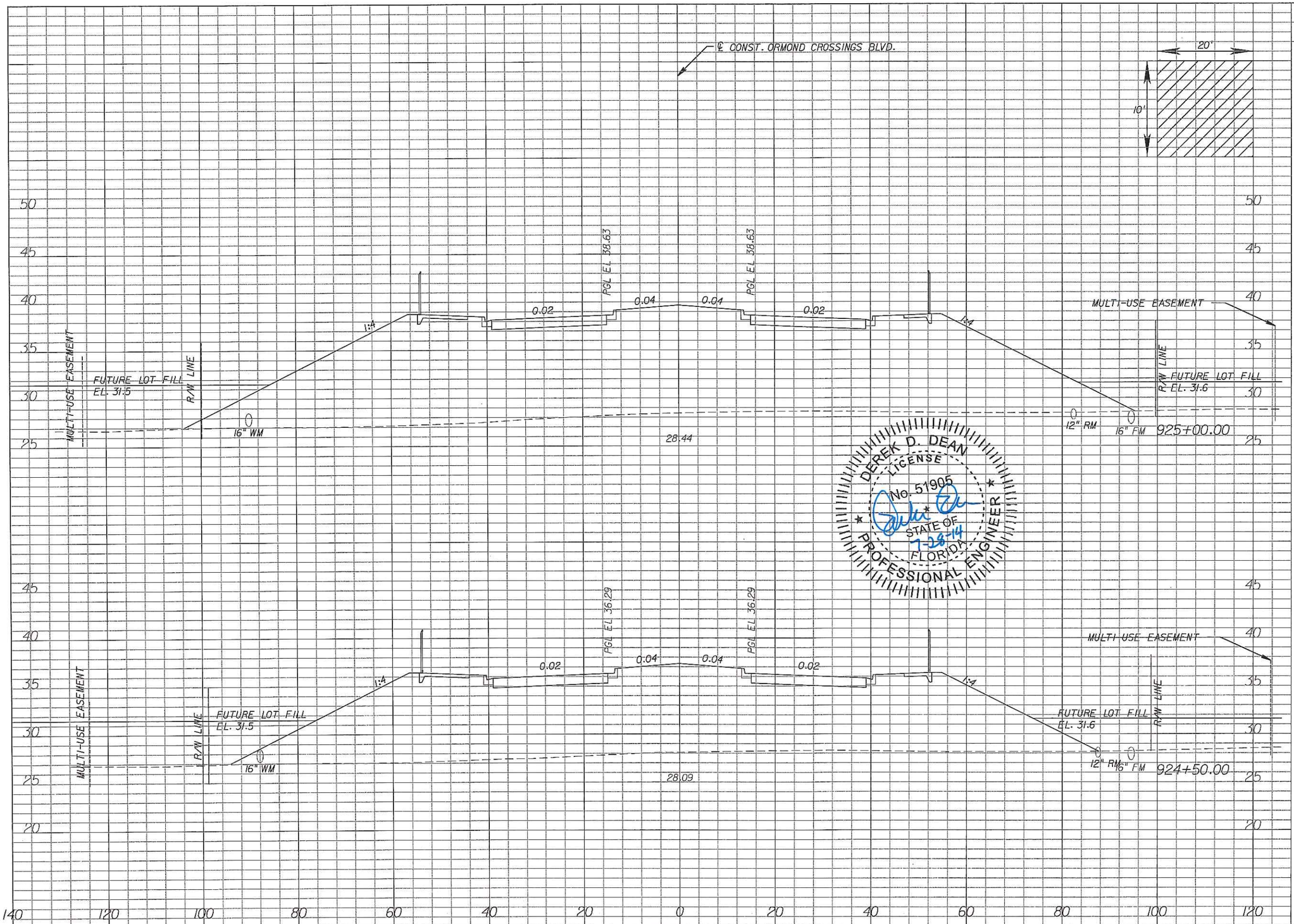
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 24

gvanbueren 7/28/2014 8:48:28 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	1491.4	2421
0.0	0	1122.8	1871

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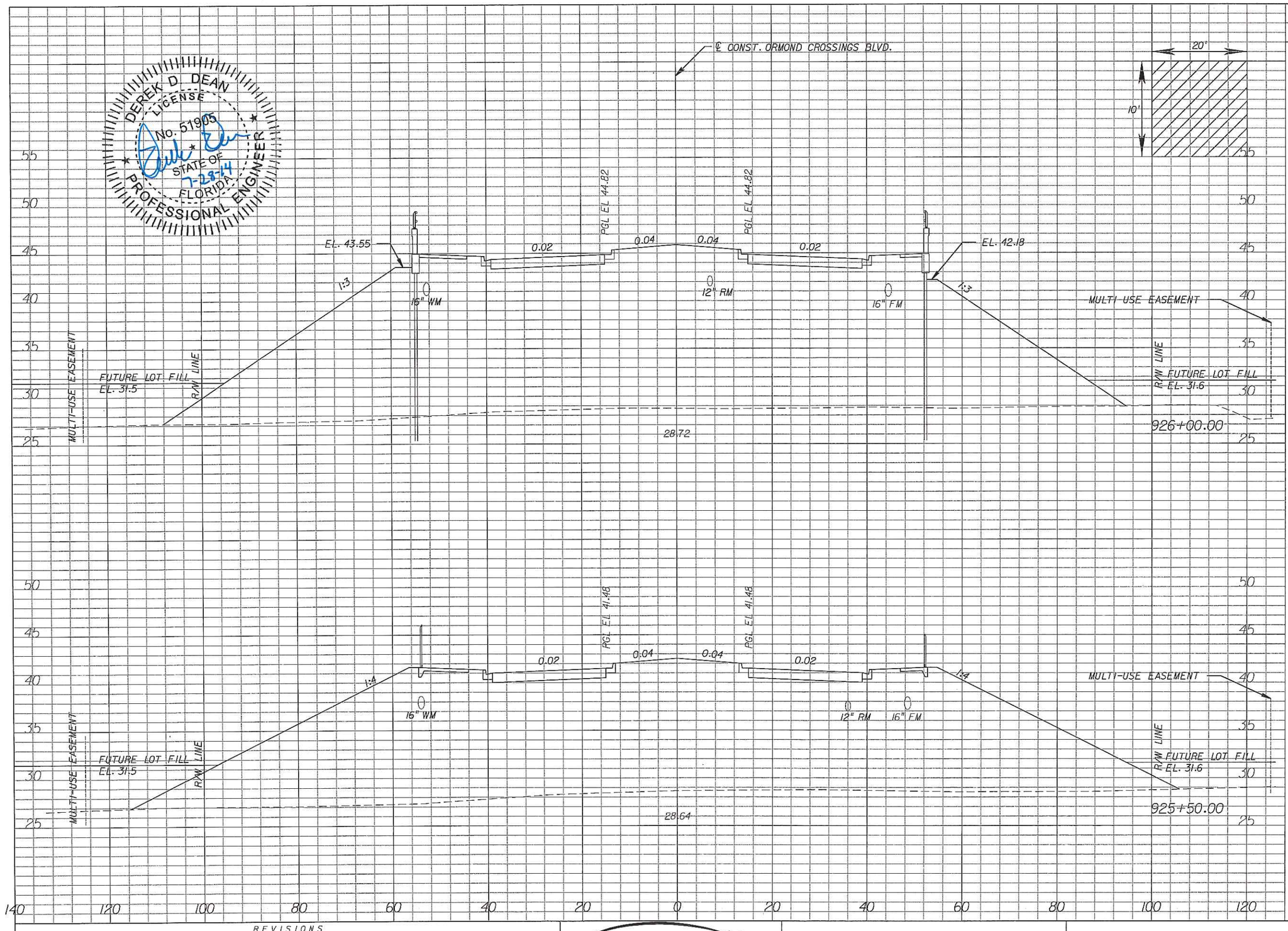
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 25

gvonbueren 7/28/2014 8:48:29 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	2469.1	4161
0.0	0	2024.3	3255

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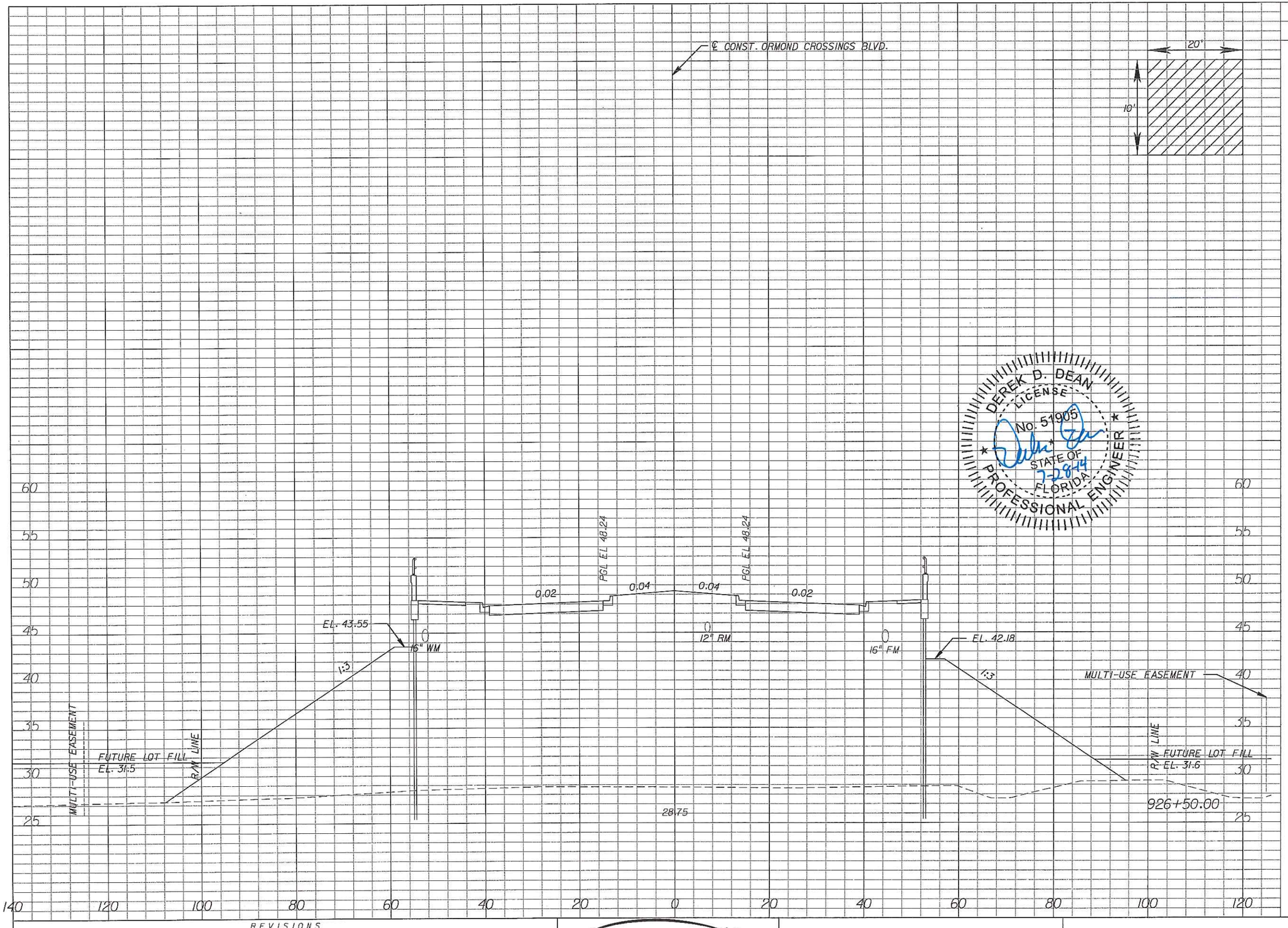
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 26

gvanbueren 7/28/2014 8:48:29 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	2848.7	4924

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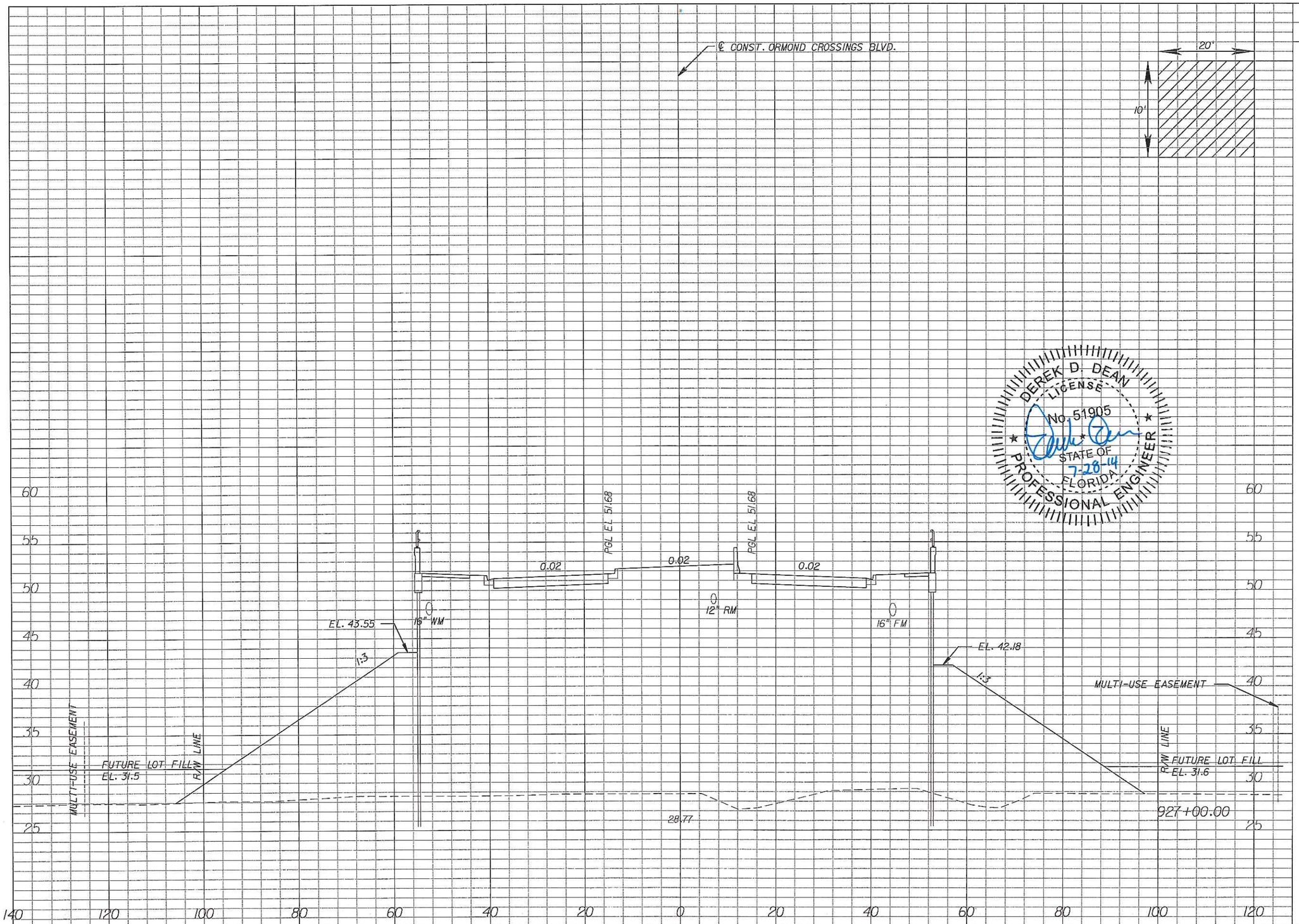
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 27

gvanbueren 7/28/2014 8:48:30 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	3196.6	5598

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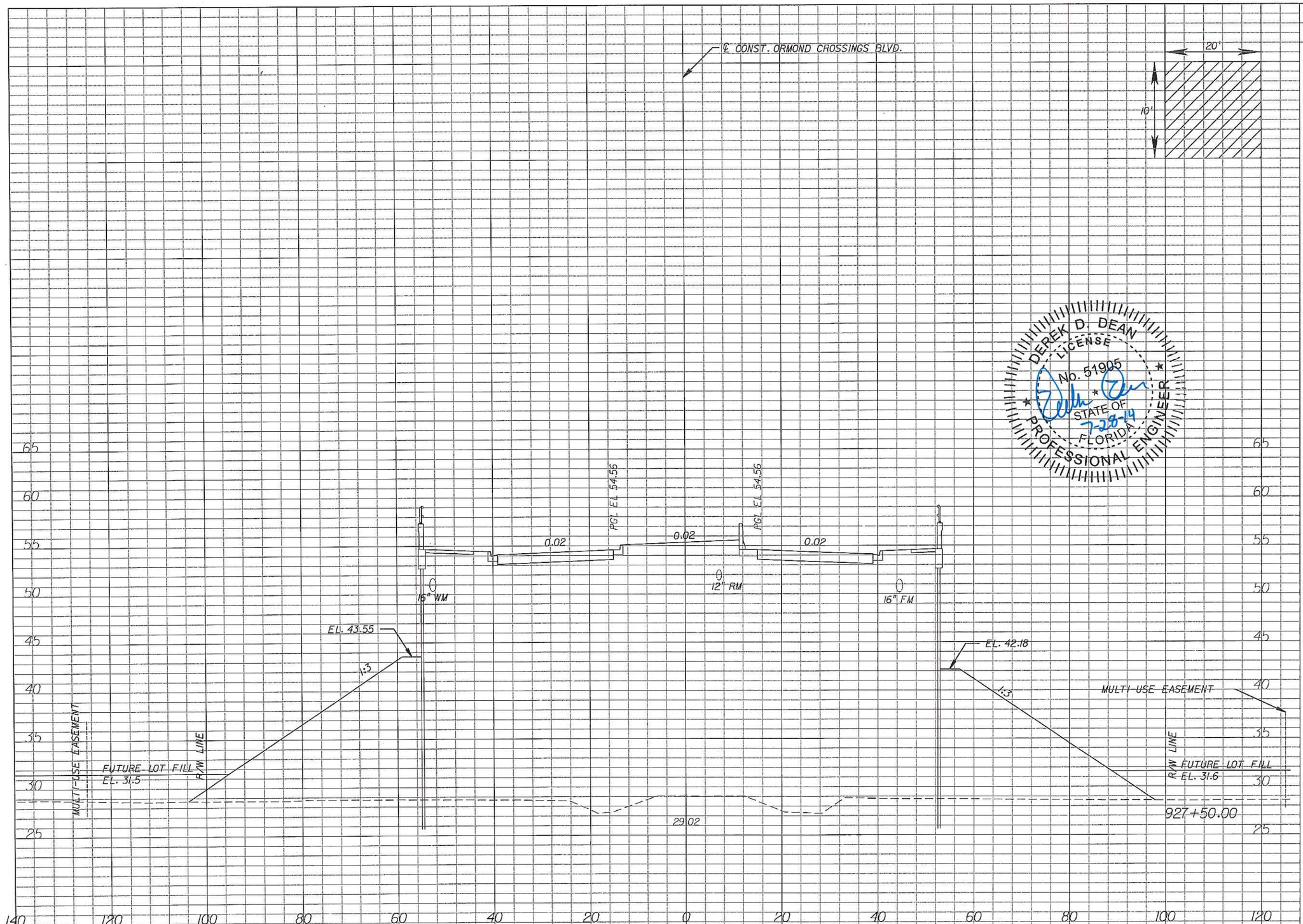
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 28

gvanbueren 7/28/2014 8:48:30 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	3492.6	6194

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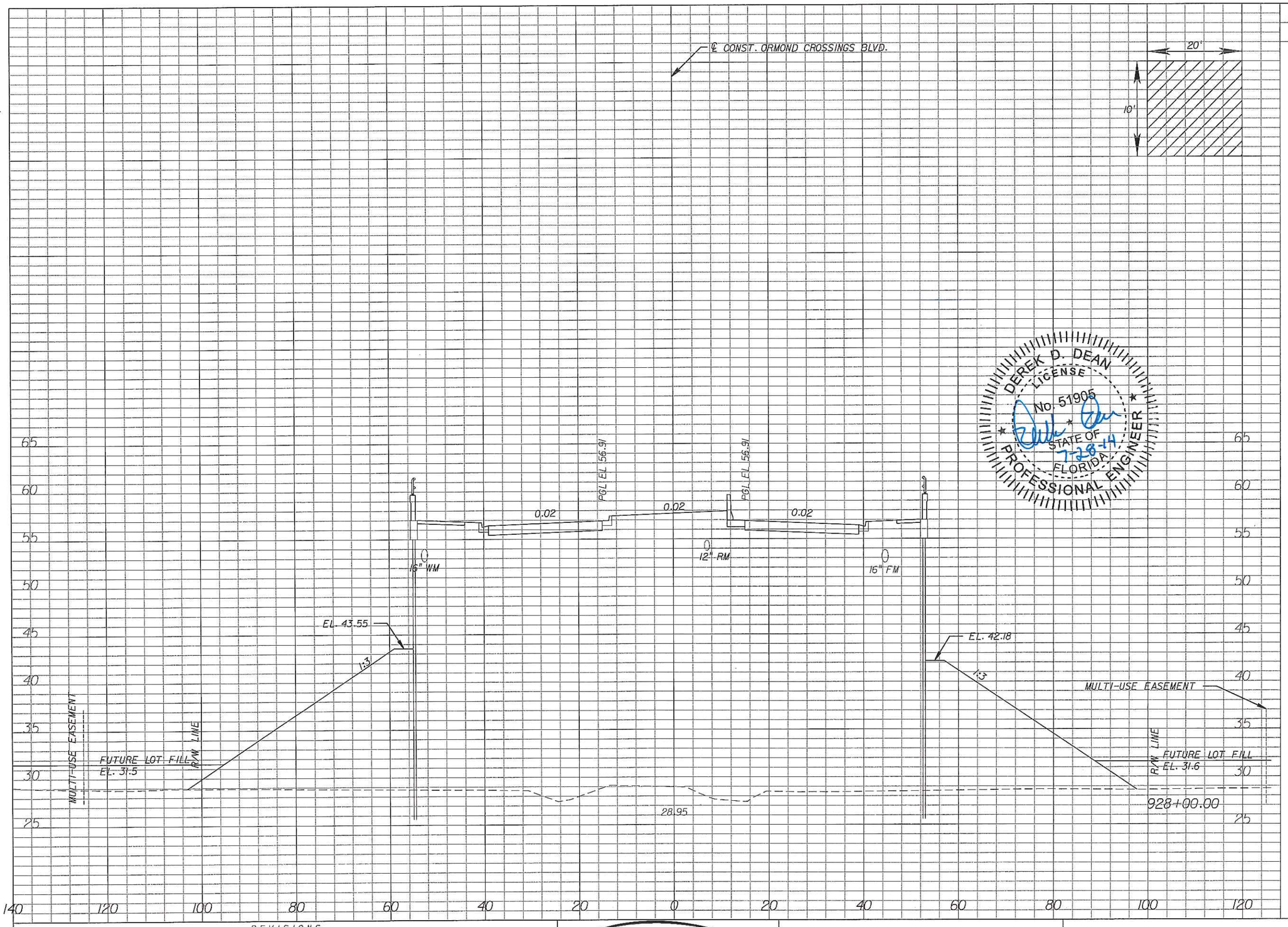
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 29

gvanbueren 7/28/2014 8:48:31 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	3742.4	6699

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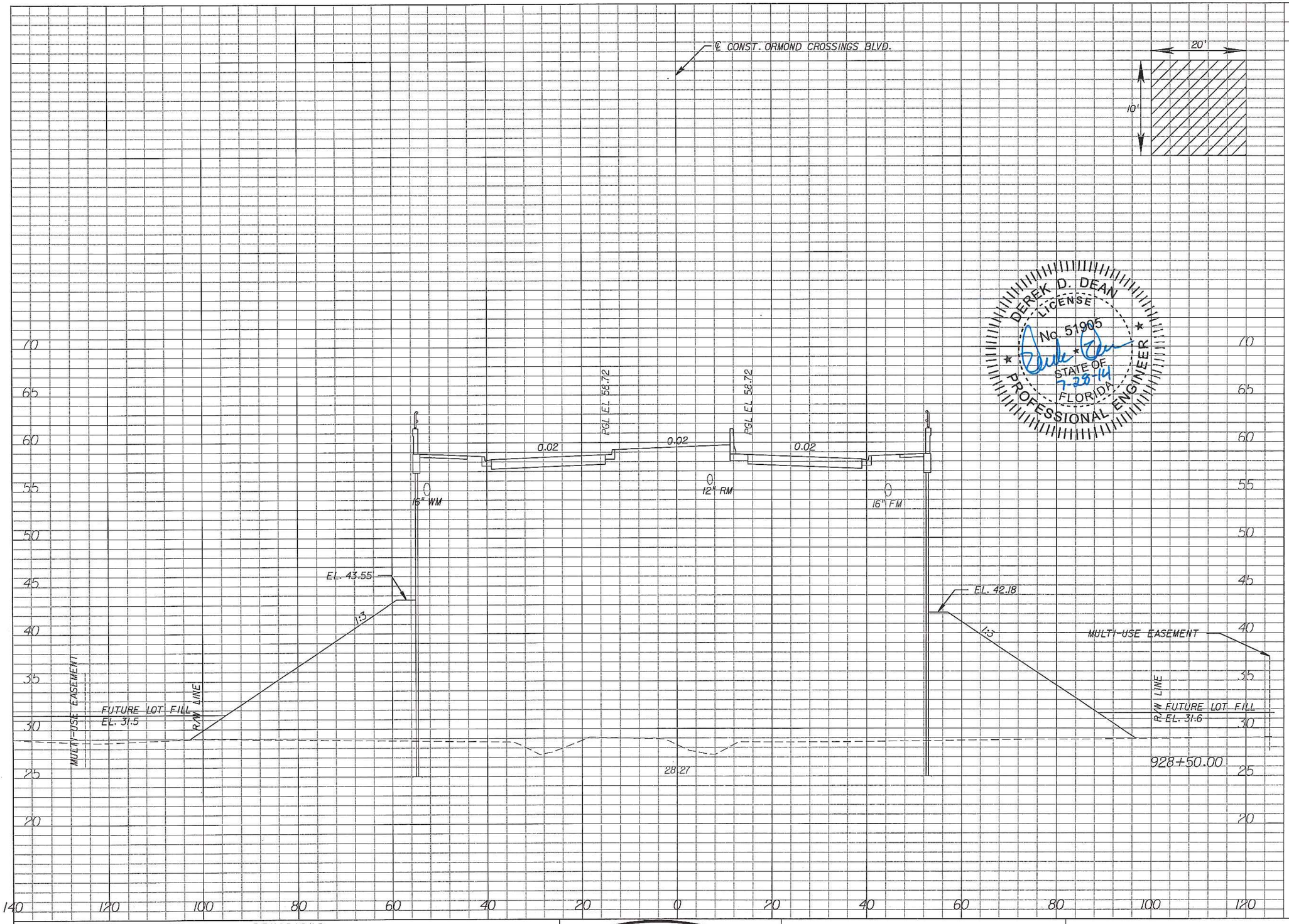
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 30

gvanbueren 7/28/2014 8:48:31 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	3924.1	7099

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
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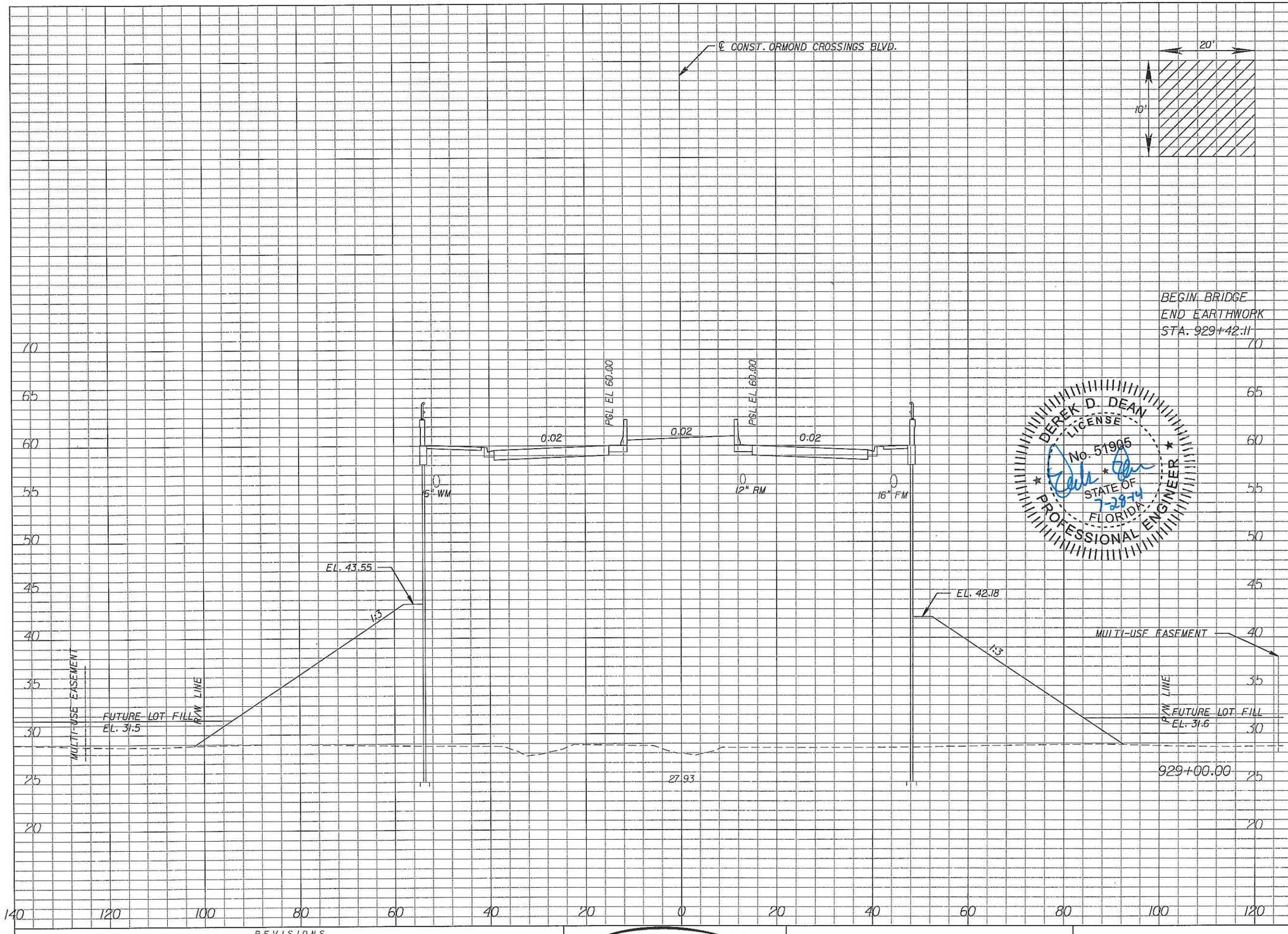
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 31

gvanbueren 7/28/2014 8:48:32 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	0.0	3035
0.0	0	3892.3	7237

REVISIONS

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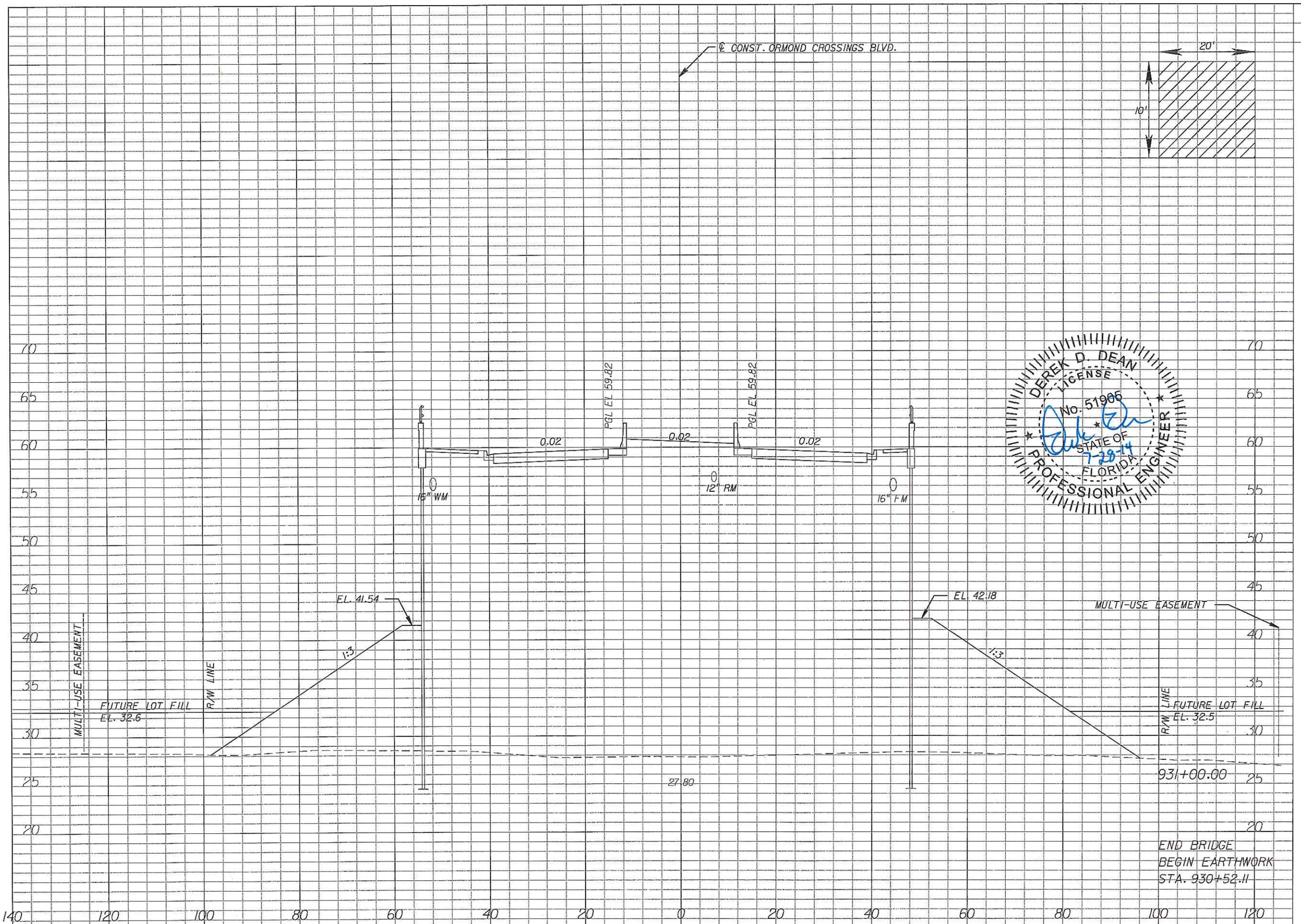
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 32

gvanbueren 7/28/2014 8:48:32 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	4060.1	3601
0.0		0.0	

DEREK D. DEAN
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No. 51905
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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
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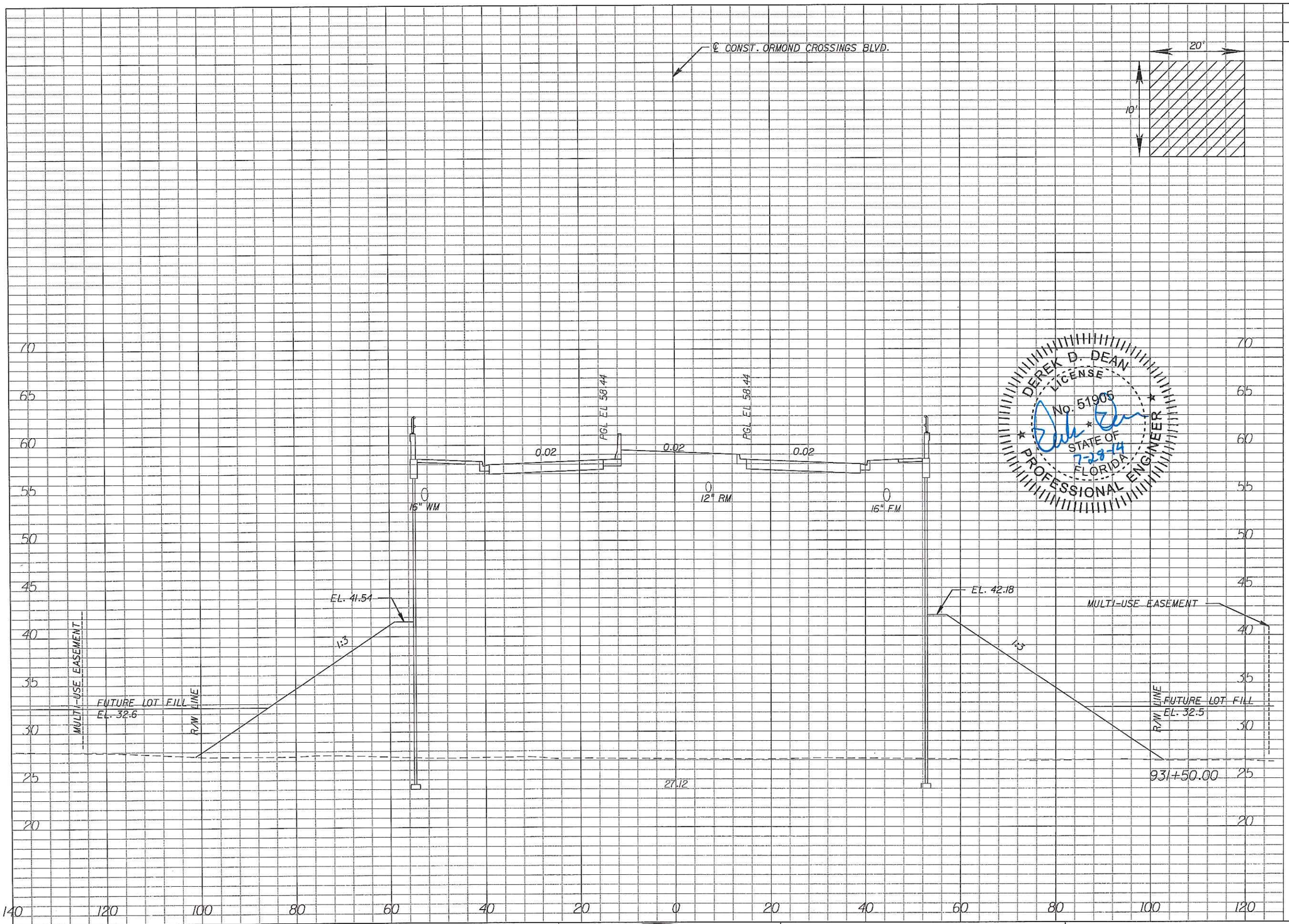
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 33

gvanbueren 7/28/2014 8:48:33 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	4275.4	7718

REVISIONS

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Inwood consulting engineers
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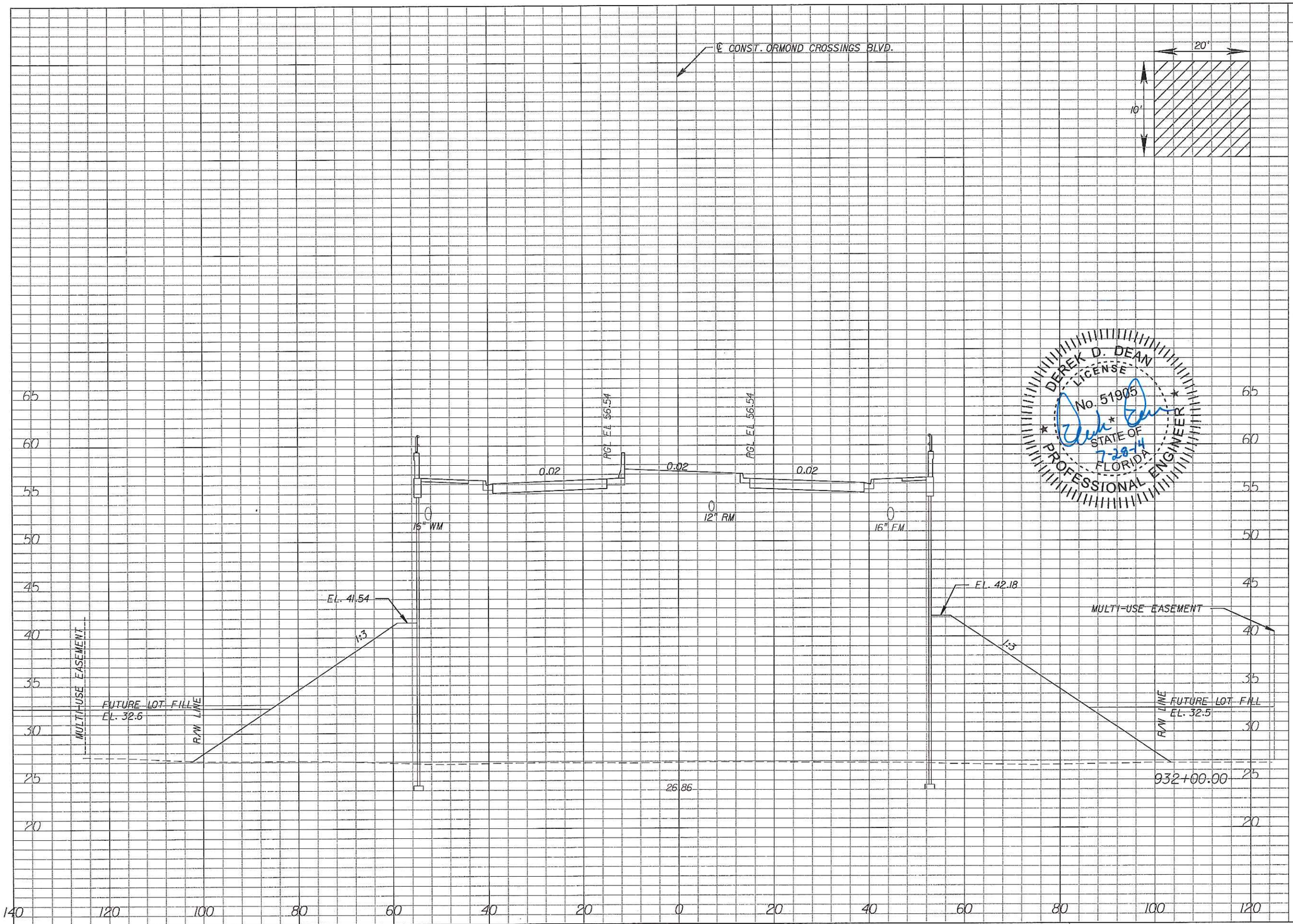
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 34

gvanbueren 7/28/2014 8:48:34 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	4154.8	7806

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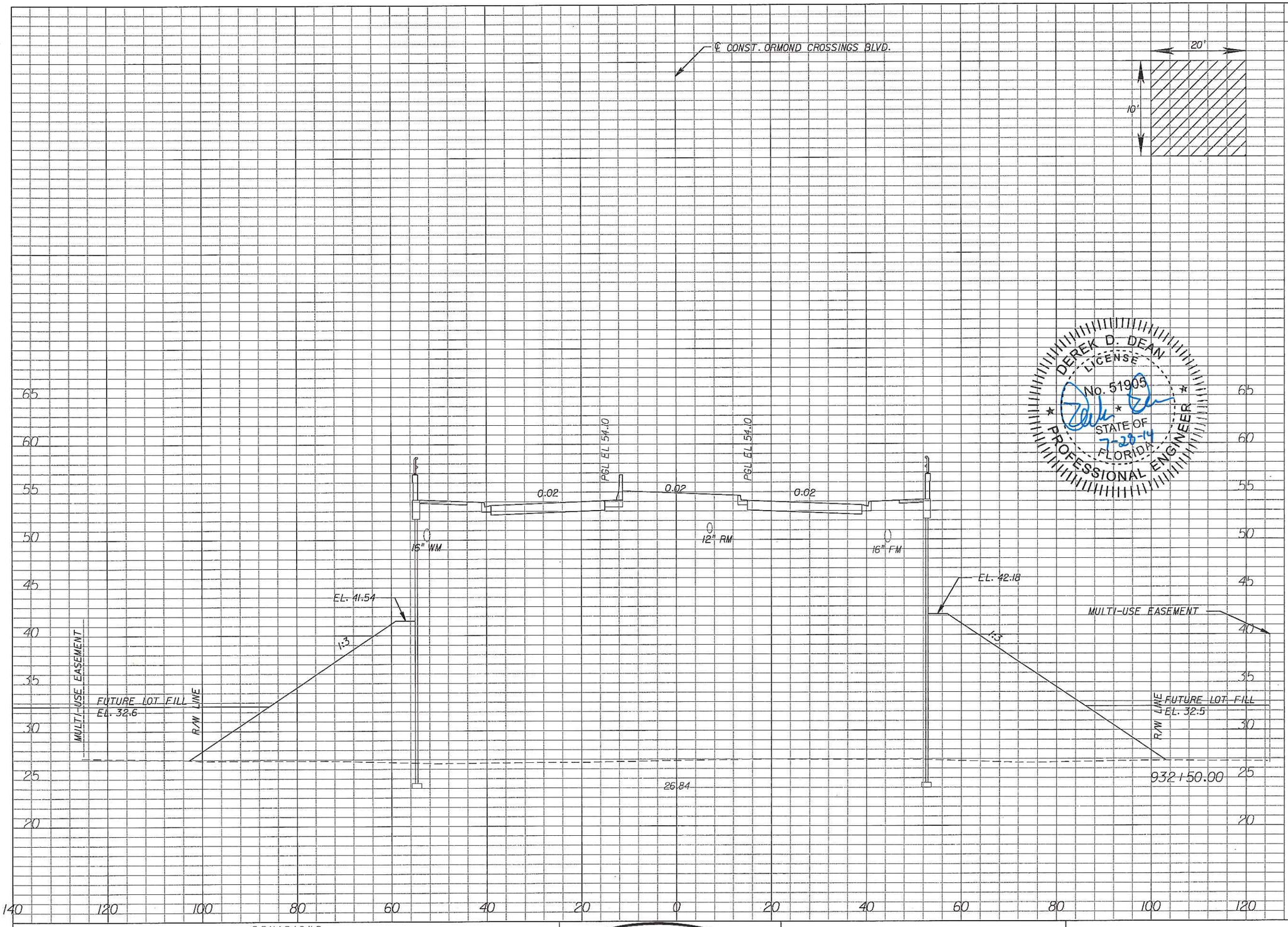
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 35

gvanbueren 7/28/2014 8:48:34 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



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Regular Exc.		Embankment	
A	V	A	V
0.0	0	3907.5	7465

REVISIONS

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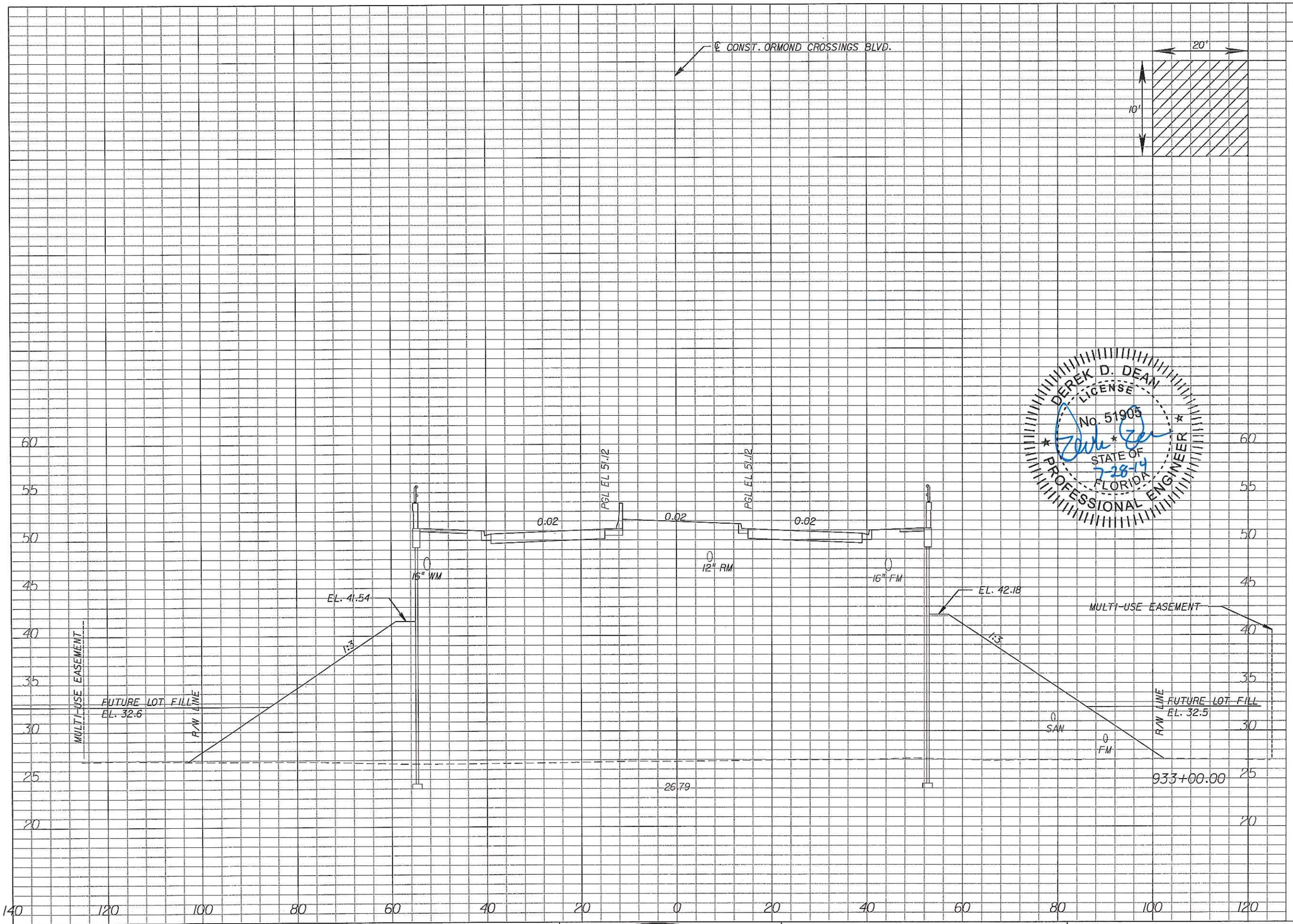
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 36

gvanbueren 7/28/2014 8:48:48 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	3580.6	6933

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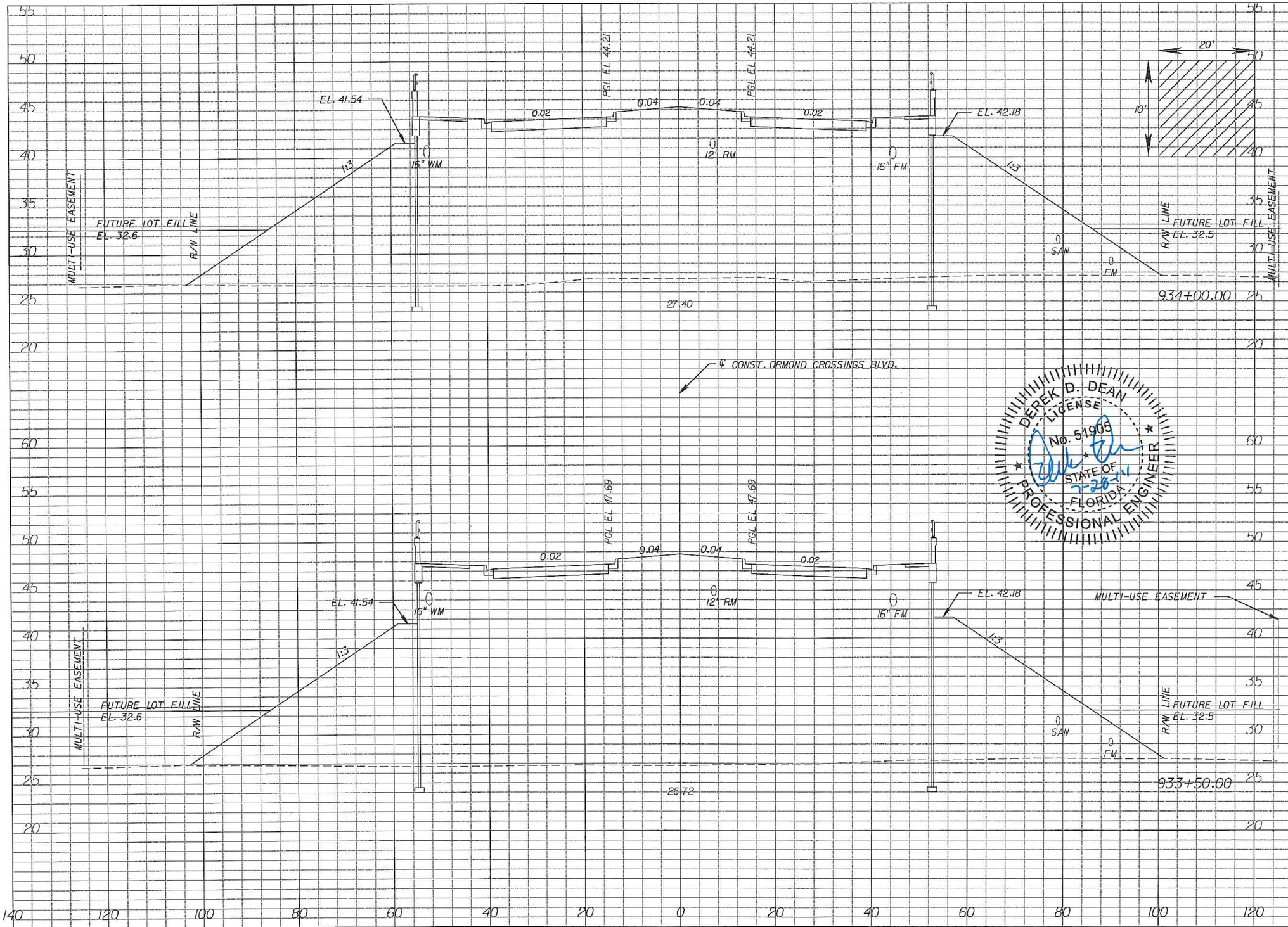
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 37

gvanbueren 7/28/2014 8:48:48 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0.0	2677.1	5458
0.0	0	3217.4	6294

DEREK D. DEAN
LICENSE
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7-28-14

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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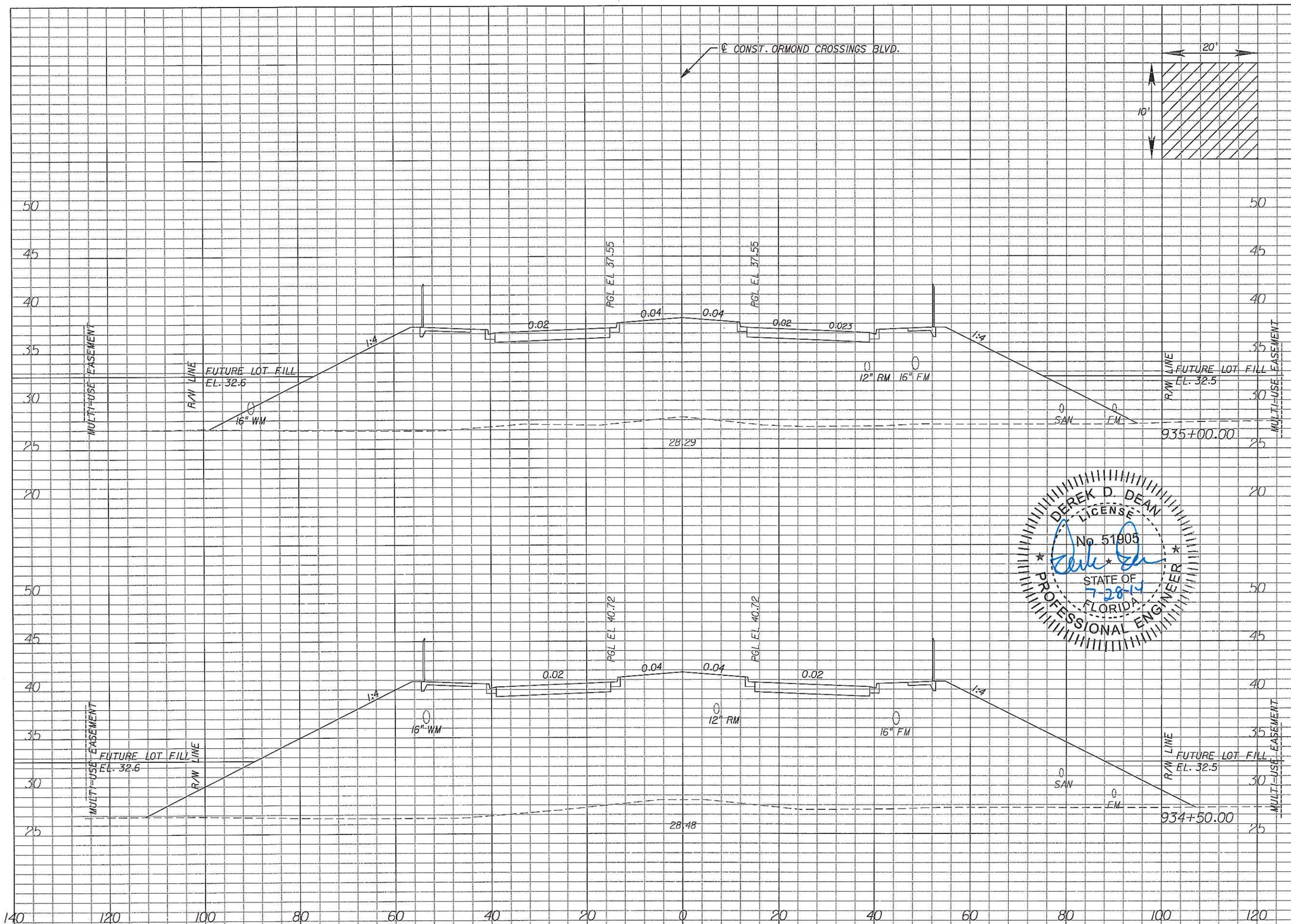
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 38

gvanburen 7/28/2014 8:48:49 AM F:\Projects\WET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	1538.3	3444
0.0	0	2181.4	4499

DEREK D. DEAN
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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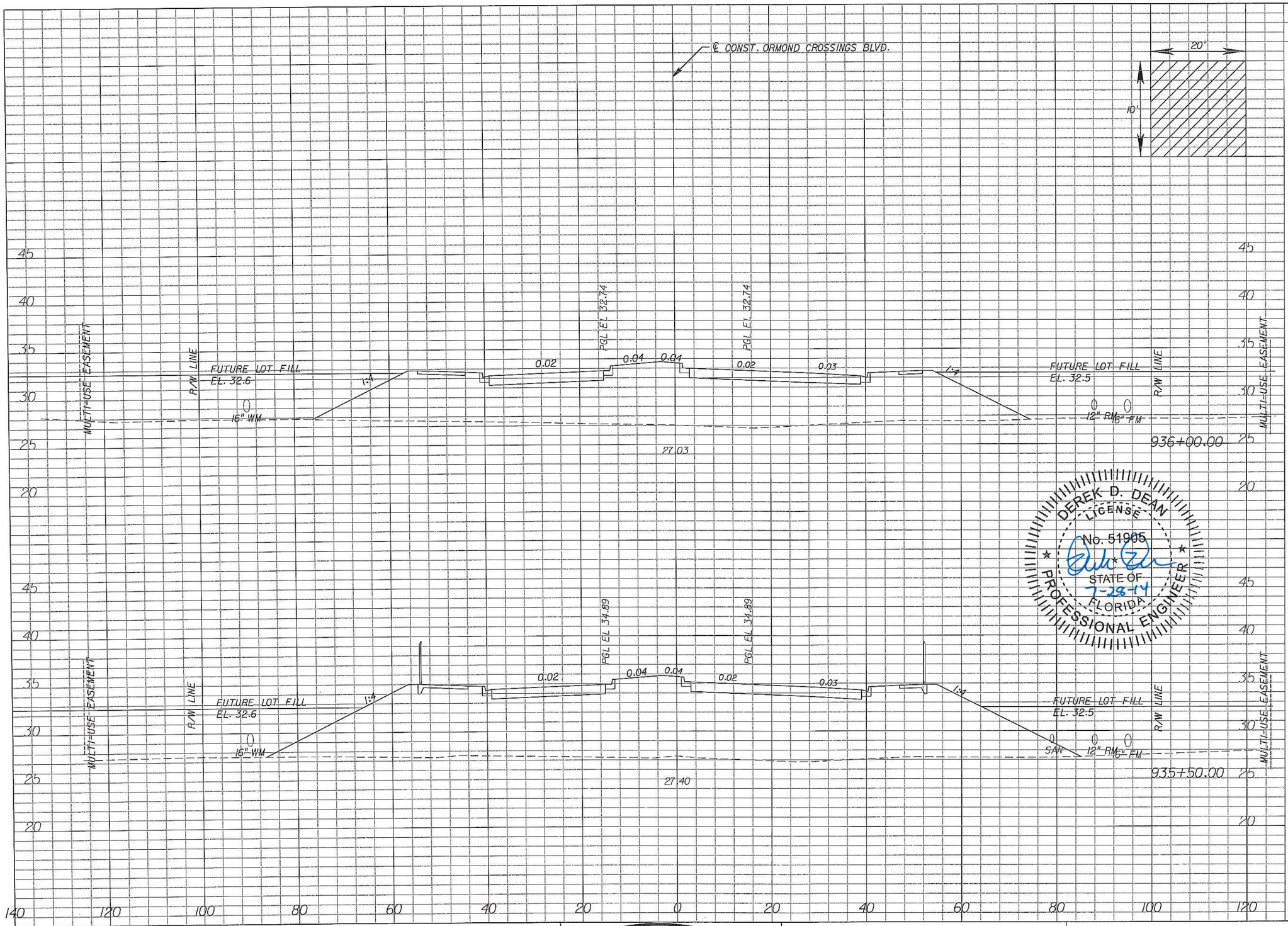
TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 39

gvanbueren 7/28/2014 8:48:49 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN



Regular Exc.		Embankment	
A	V	A	V
0.0	0	667.7	1581
0.0	0	1040.0	2387

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PE No. 51905
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS ORMOND CROSSINGS BLVD.

SHEET NO. 40

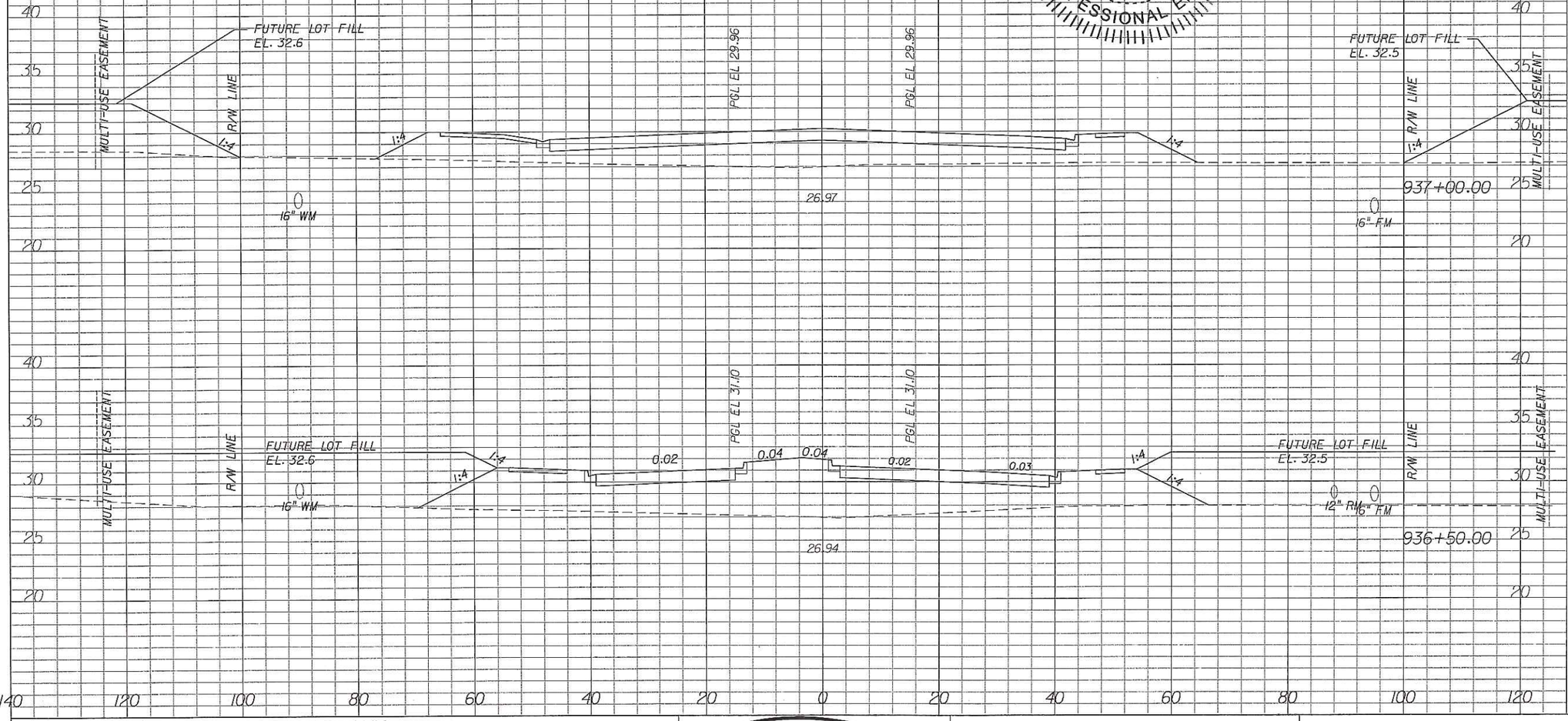
gvanbueren 7/28/2014 8:48:50 AM F:\Projects\MET-002-01\roadway\RDXSRD01.DGN

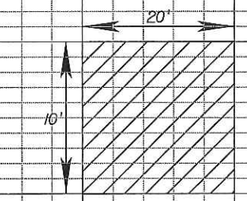
SUMMARY OF EARTHWORK

ORMOND CROSSINGS BOULEVARD

DESCRIPTION	CY	
	P	F
EXCAVATION	0	
EMBANKMENT	117,590	

℄ CONST. ORMOND CROSSINGS BLVD.





DEREK D. DEAN
LICENSE
No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

END EARTHWORK
ORMAND CROSSINGS
@ STA. 937+41.61
EOP OF USI

	Regular Exc.		Embankment	
	A	V	A	V
	0.0	0	0.0	191
	0.0	0	247.2	590
	0.0	0	390.1	979

REVISIONS

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS
ORMOND CROSSINGS BLVD.

SHEET NO. 41

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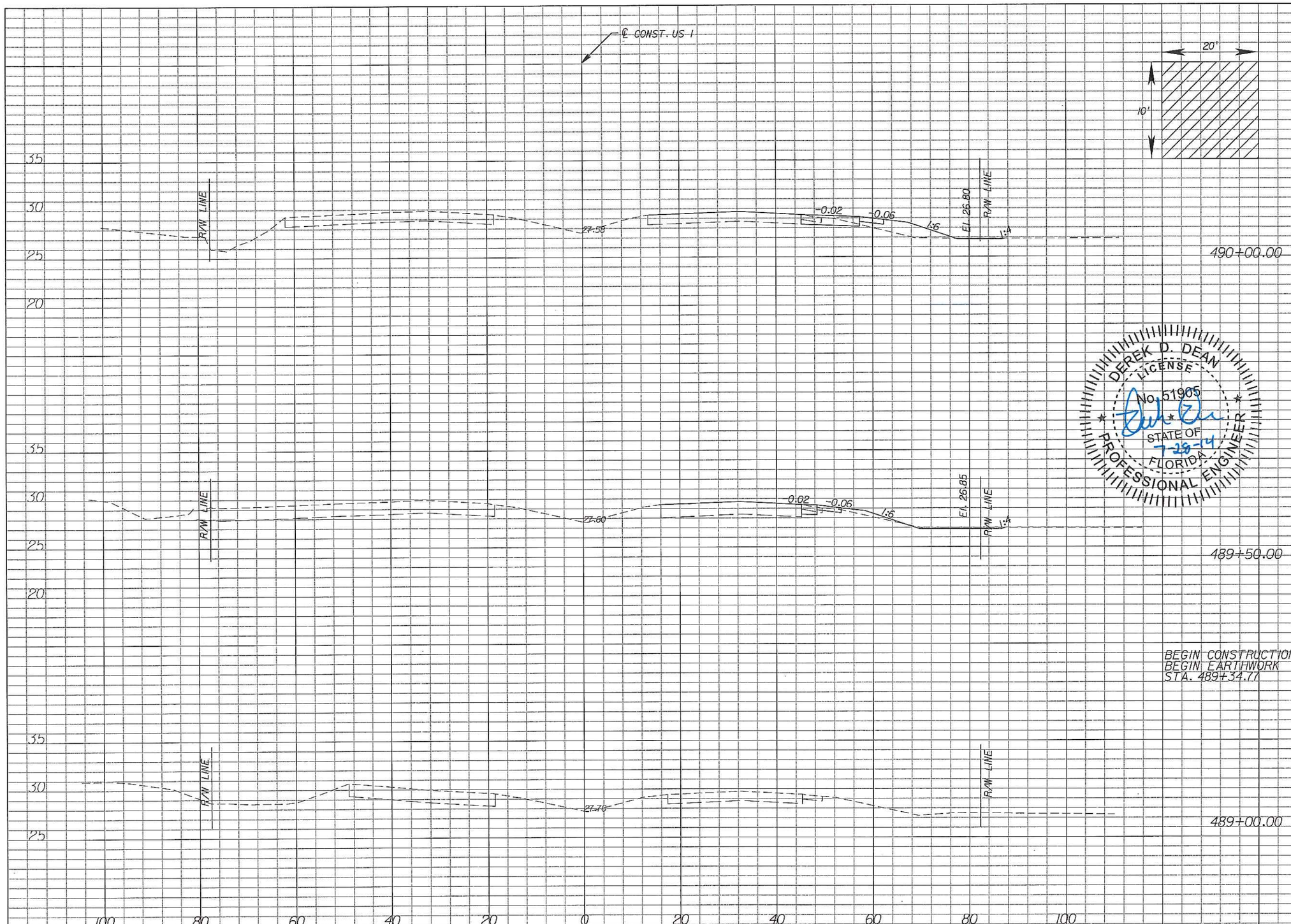

	Regular Exc.		Embankment	
	A	V	A	V
490+00.00	8.1	14	13.7	15
489+50.00	6.9	2	2.7	1
BEGIN CONSTRUCTION BEGIN EARTHWORK STA. 489+34.77	0.0		0.0	
489+00.00				

DEREK D. DEAN
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 42

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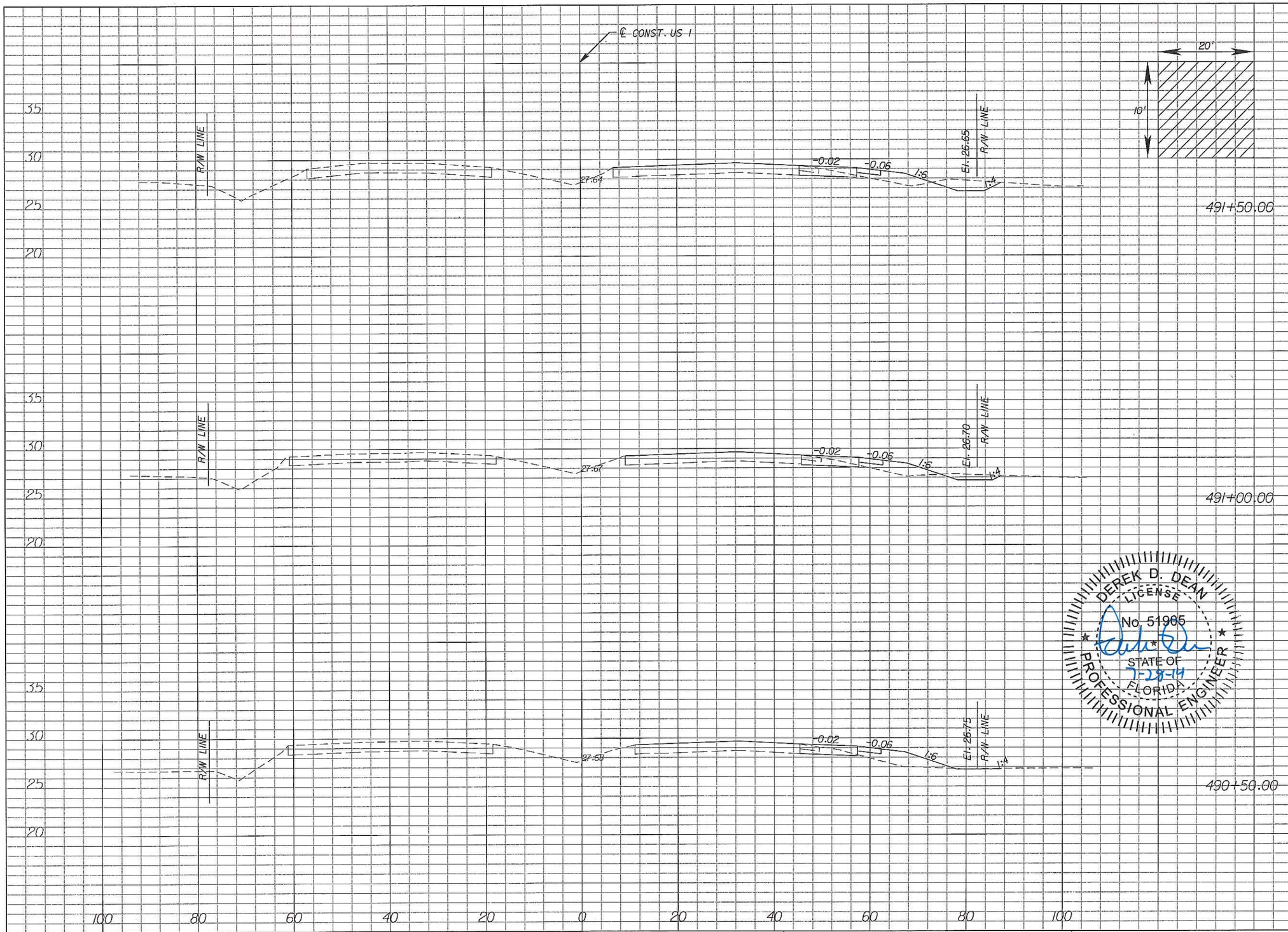

	Regular Exc.		Embankment	
	A	V	A	V
491+50.00	16.0		10.4	
		25		21
491+00.00	11.5		11.8	
		18		25
490+50.00	7.7		14.8	
		15		26

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 43

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Regular Exc.		Embankment	
A	V	A	V
9.7		8.6	
	26		14
18.1		6.8	
	31		15
15.4		9.8	
	29		19

DEREK D. DEAN
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No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 44

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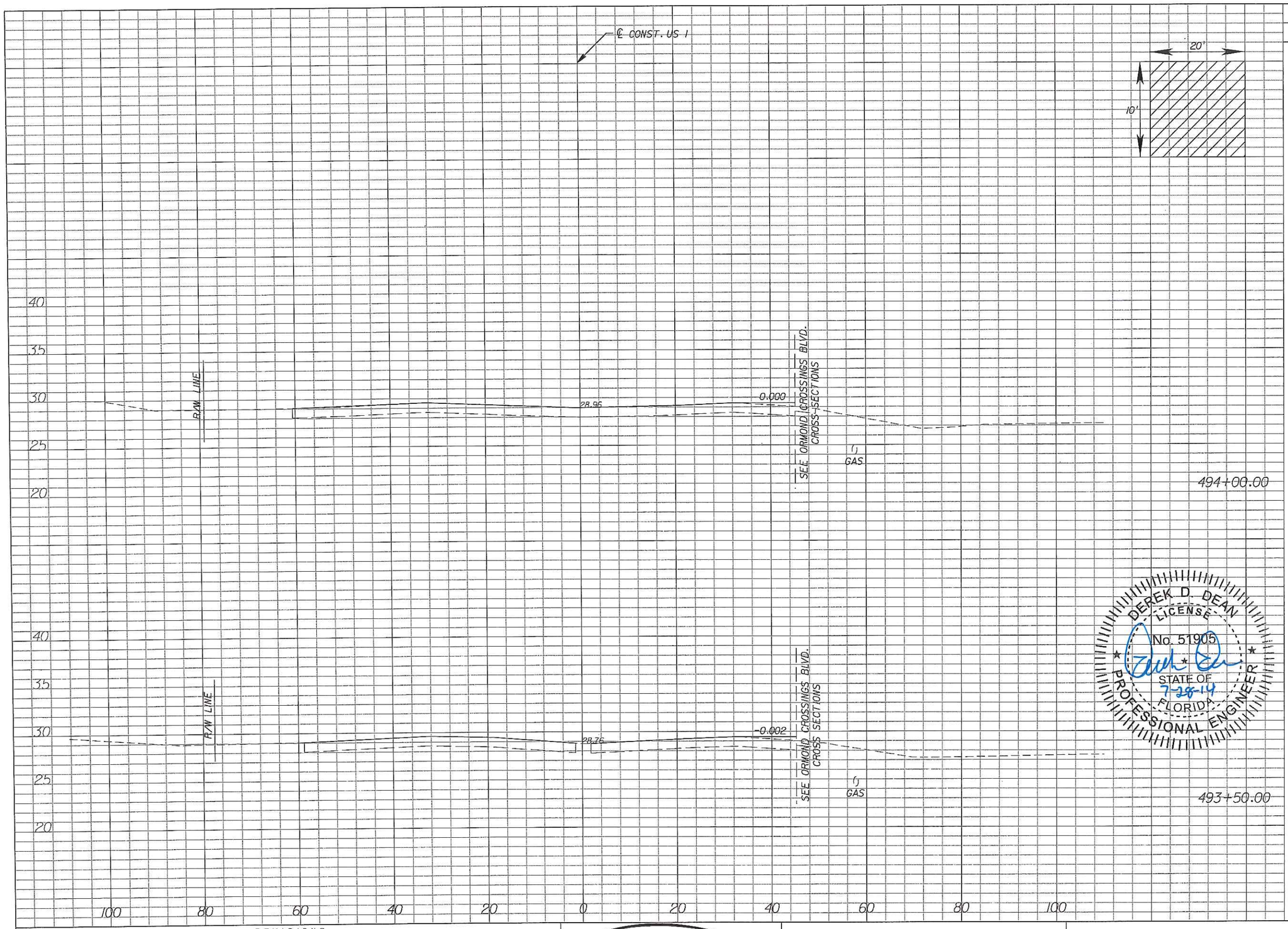

	Regular Exc.		Embankment	
	A	V	A	V
494+00.00	0.0		0.0	
	0		0	
493+50.00	0.0		0.0	
	9		8	

DEREK D. DEAN
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No. 51905
STATE OF
7-28-14
FLORIDA
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REVISIONS					
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 45

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Regular Exc.		Embankment	
A	V	A	V
6.8		6.8	
	28		10
23.8		4.1	
	22		4
0.0		0.0	
	0		0

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 46

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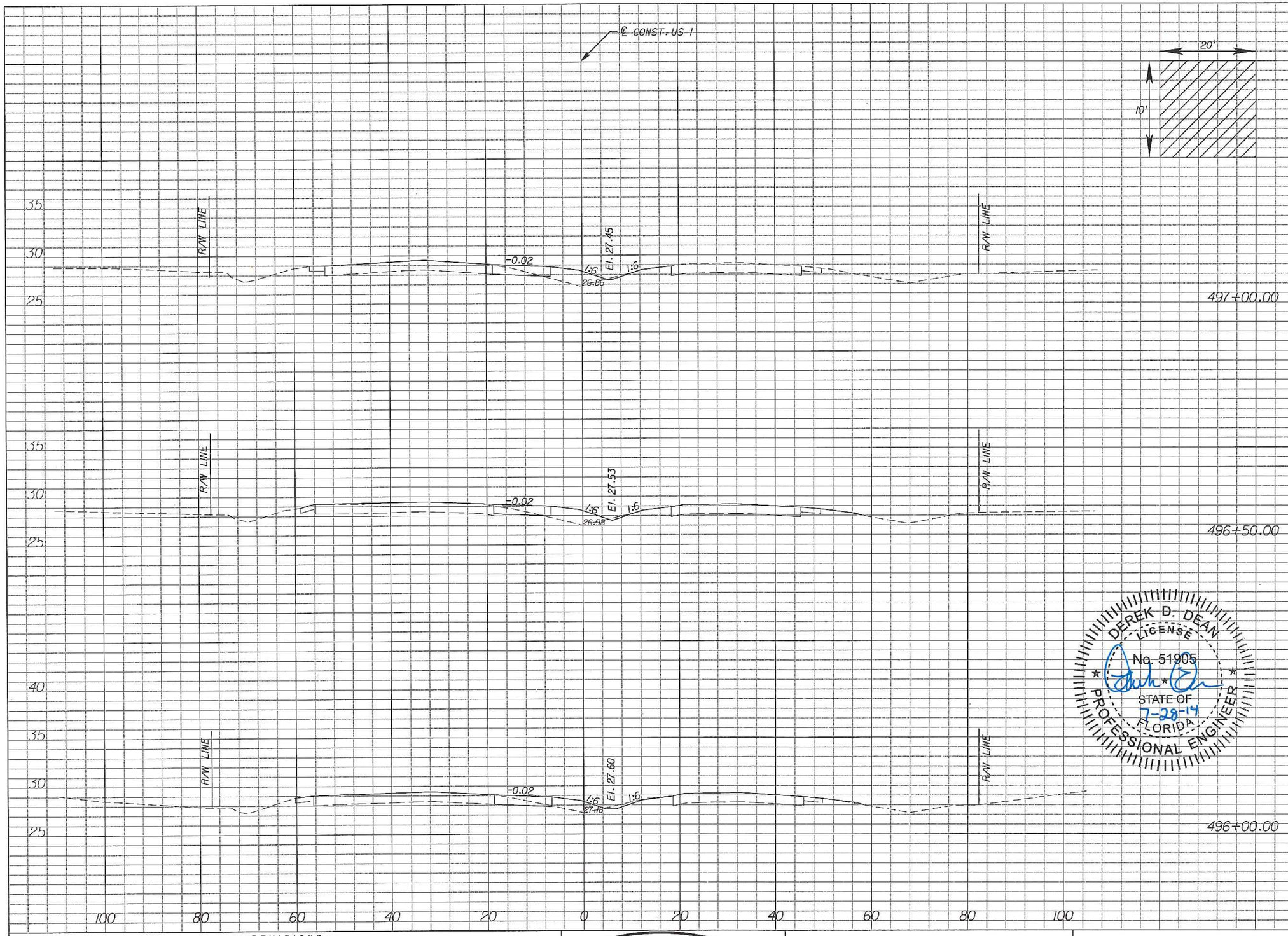

	Regular Exc.		Embankment	
	A	V	A	V
497+00.00	6.3		13.1	
		13		22
496+50.00	7.3		10.8	
		14		18
496+00.00	7.9		9.1	
		14		15

DEREK D. DEAN
LICENSE
No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 47

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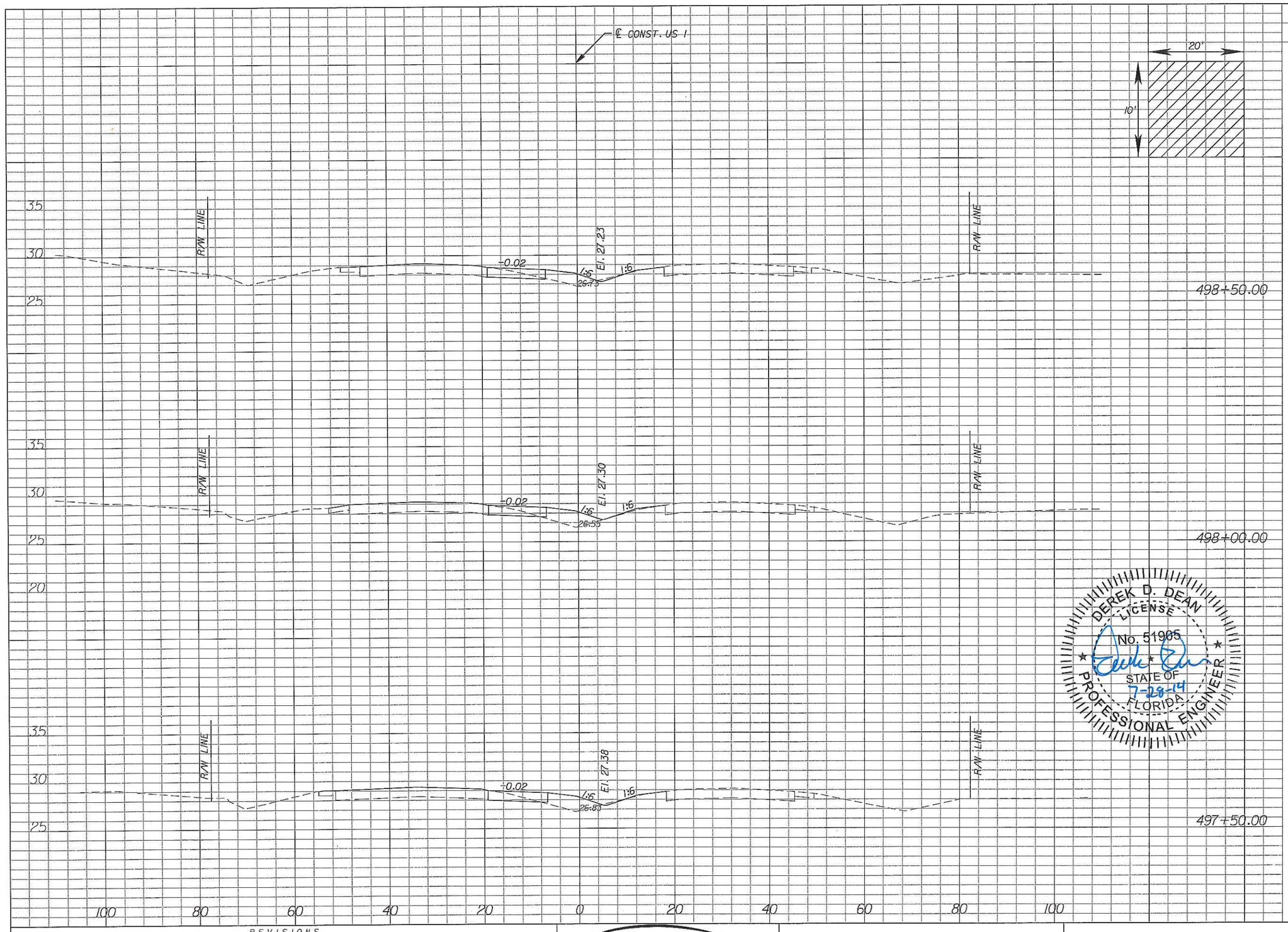

	Regular Exc.		Embankment	
	A	V	A	V
498+50.00	8.9		9.6	
		15		21
498+00.00	7.3		13.5	
		13		24
497+50.00	7.1		12.6	
		12		24

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS US 1

SHEET NO. 48

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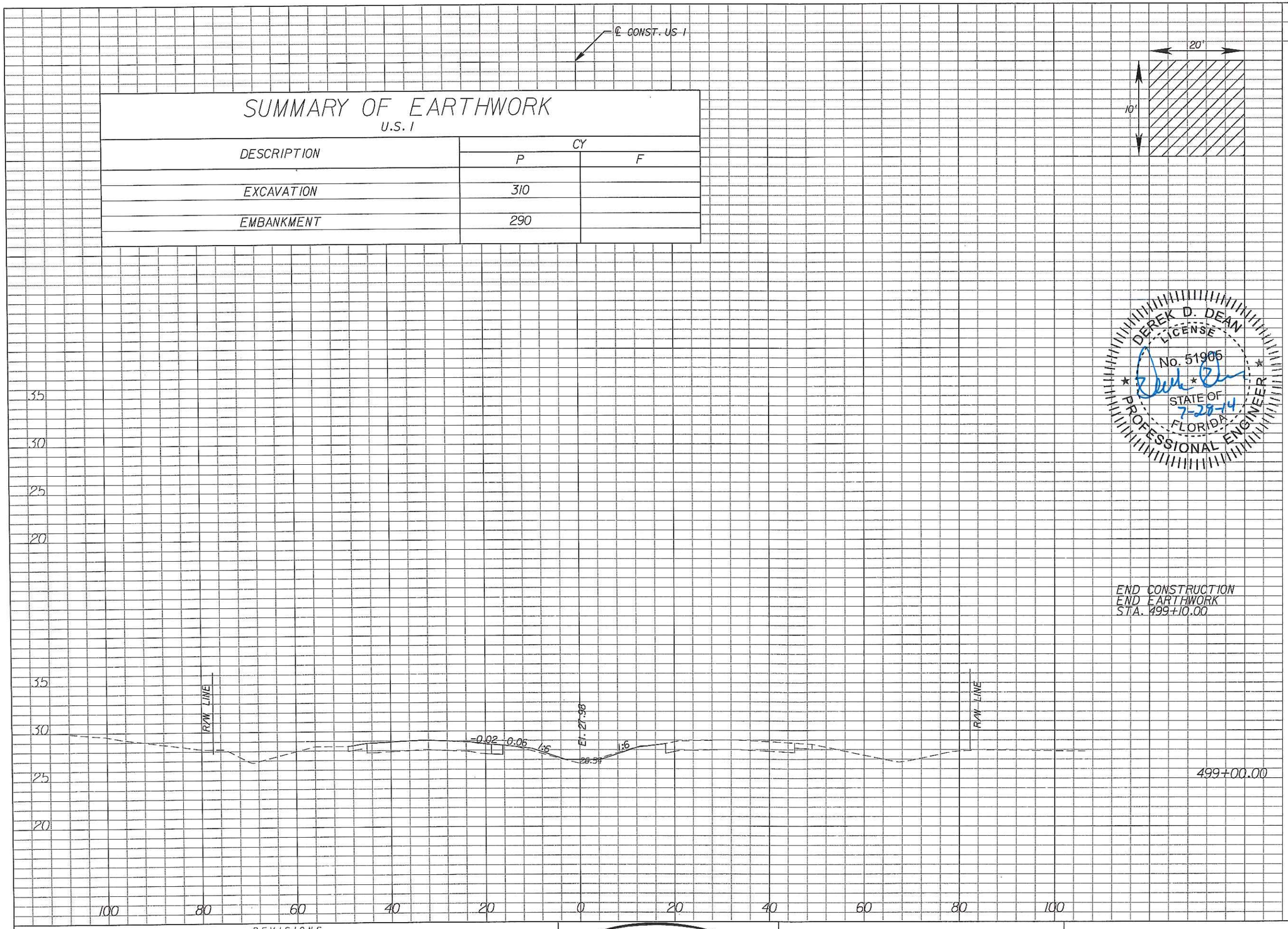
SUMMARY OF EARTHWORK
U.S. 1

DESCRIPTION	CY	
	P	F
EXCAVATION	310	
EMBANKMENT	290	



	Regular Exc.		Embankment	
	A	V	A	V
END CONSTRUCTION END EARTHWORK STA. 499+10.00	0.0		0.0	
		0.4		0.1
499+00.00	2.1		0.6	
		10		9

DEREK D. DEAN
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
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TOMOKA HOLDINGS, LLC	
COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

CROSS SECTIONS
US 1

SHEET NO. 49

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EROSION CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

3. THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. (SEE NOTE 16).

5. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY (30) DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.

6. THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

7. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.

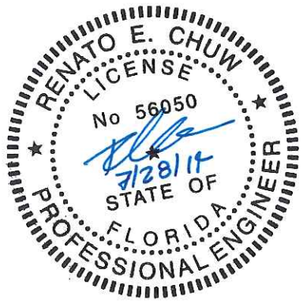
8. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

9. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.

12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.



13. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.

14. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS, AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.

15. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN SECTION 104, "F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION." SIDE SLOPES MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISK HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 3:1 NOR PART OF A DRAINAGE CONVEYANCE.

16. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH F.D.O.T. INDEX NO. 102.

SUMMARY OF SEDIMENT BARRIER

STATION TO STATION	SIDE	LF	
		P	F
ORMOND CROSSINGS BOULEVARD			
921+80.00 TO 929+42.11	LT	762.11	
930+52.11 TO 937+05.00	LT	652.89	
921+80.00 TO 929+42.11	RT	762.11	
930+52.11 TO 937+05.00	RT	652.89	
US 1			
489+34.77 TO 492+98.00	RT	363.23	
494+91.00 TO 499+10.00	RT	419.00	
CURB INLET	10	100	
MES	4	40	
TOTAL		3753	

SUMMARY OF INLET PROTECTION SYSTEMS

STRUCTURE	NO.	EA	
		P	F
CURB INLET	10	10	
TOTAL		10	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC	
CITY	PROJECT
VOLUSIA	ORMOND CROSSINGS

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 50

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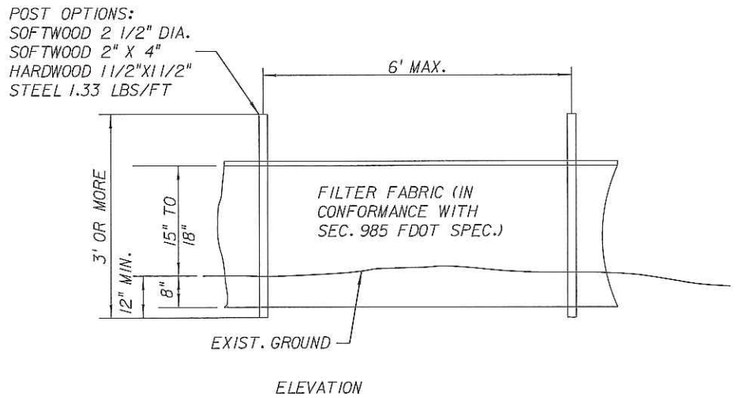
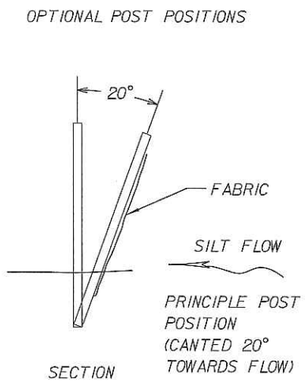
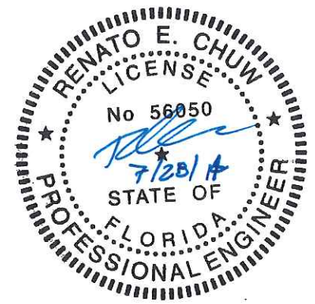
SILT FENCE DETAILS



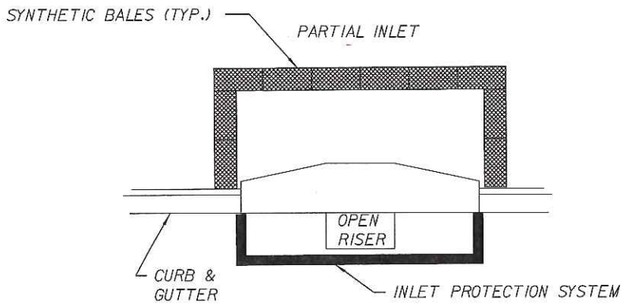


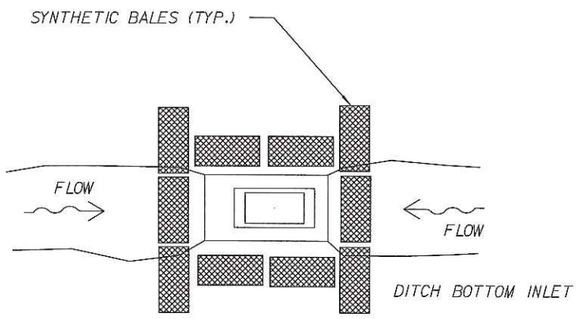
NOTES:

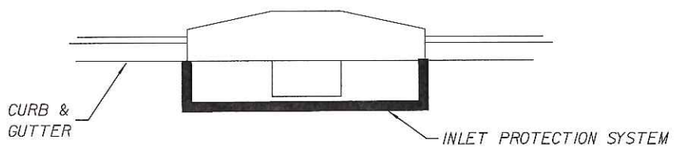
1. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SEDIMENT BARRIER (LF), PAY ITEM NO. 104-10-3.
2. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS.
3. WHERE USED AS SLOPE PROTECTION SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
4. WHERE USED IN DITCHES THE SPACING FOR SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF F.D.O.T. STANDARD INDEX 102.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES







NOTES:

1. TYPE I AND II BARRIERS SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF F.D.O.T. STANDARD INDEX 102.
2. SYNTHETIC BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2 - 1" X 2" (OR 1" DIA.) X 4" WOOD STAKES. STAKES OF OTHER MATERIALS OR SHAPES PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2"X4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, SYNTHETIC BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.
6. BALES TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SEDIMENT BARRIER, LF. INLET PROTECTION SYSTEMS TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR INLET PROTECTION SYSTEMS, EA.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
CITY	PROJECT		
VOLUSIA	ORMOND CROSSINGS		51

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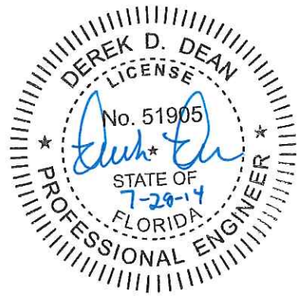
TRAFFIC CONTROL PLAN - GENERAL NOTES

THE TRAFFIC CONTROL PLANS PRESENT MINIMUM REQUIREMENTS FOR TRAFFIC CONTROL WITHIN WORK ZONES, DURING CONSTRUCTION.

1. THE REGULATORY SPEED LIMITS FOR THE PROJECT ROADWAYS DURING CONSTRUCTION SHALL BE PER THE TYPICAL SECTION FOR EACH PHASE OF CONSTRUCTION.
2. EXISTING SIGNS SHALL BE MAINTAINED AT ALL TIMES. ALL EXISTING SIGNS, WHEN TAKEN OUT OF USE, SHALL BE DISPOSED OF ACCORDING TO SPECIFICATIONS.
3. REMOVABLE PAVEMENT MARKINGS SHALL BE USED FOR ALL TEMPORARY MARKINGS ON EXISTING PAVEMENT WHERE THE AREA OF EXISTING PAVEMENT IS TO BE RESTRIPED IN FUTURE PHASES.
4. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DRAINAGE MEASURES REQUIRED TO ADEQUATELY DRAIN THE PROJECT AND TEMPORARY TRAVELED ROADWAYS. COMPENSATION SHALL BE INCLUDED UNDER PAY ITEM NO.102-1 (MAINTENANCE OF TRAFFIC).
5. ALL MILLED AREAS SHALL BE COVERED WITH STRUCTURAL COURSE THE SAME DAY THAT MILLING OCCURS.
6. CONTRACTOR SHALL COORDINATE WITH FLORIDA EAST COAST RAILWAY PRIOR TO ANY WORK WITHIN OR ABOVE RAILROAD R/W.
7. ALL EXISTING PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED OR REMOVED DUE TO TEMPORARY DETOURS AND/OR CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX NOS. 17345, 17346 AND 17352. PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN PAY ITEM 102-1 (MAINTENANCE OF TRAFFIC).
8. THE CONTRACTOR SHALL RESTORE DROP OFF CONDITIONS FOR INACTIVE WORK ZONES PER FDOT STANDARD INDEX 600.
9. THE CONTRACTOR SHALL KEEP POTENTIAL STAGING AREAS AWAY FROM ADJACENT WETLANDS TO A MINIMUM DISTANCE OF 50 FEET.



REVISIONS					
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TOMOKA HOLDINGS, LLC		TRAFFIC CONTROL PLAN GENERAL NOTES	SHEET NO.
COUNTY	PROJECT		
VOLUSIA	ORMOND CROSSINGS		52

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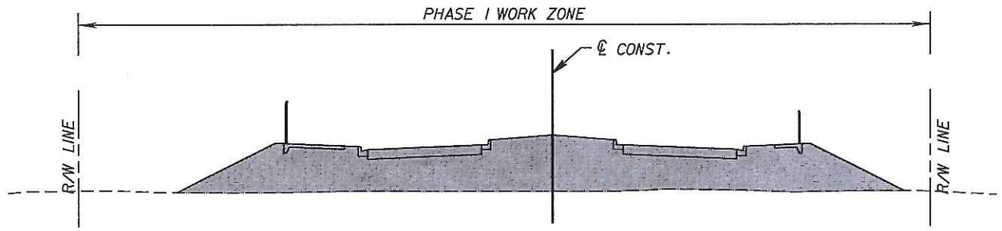
PHASE 1

NOTE: THE INTENT OF PHASE 1 IS TO CONSTRUCT BOTH THE NORTH AND SOUTHBOUND LANES OF ORMOND CROSSINGS BOULEVARD.

1. CONSTRUCT NEW NORTHBOUND AND SOUTHBOUND TRAVEL LANES.
2. CONSTRUCT MAIN TRUNK LINES AND DRAINAGE STRUCTURES.
3. CONSTRUCT LATERAL PIPES CONNECTING TO RETENSION PONDS.
4. MAINTAIN TRAFFIC AT THE INTERSECION WITH US 1.

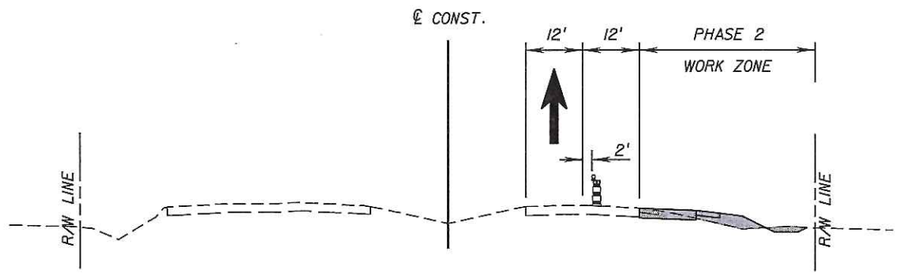


STA. 921+80.00 TO STA. 937+39.61

PHASE 2

NOTE: THE INTENT OF PHASE 2 IS TO CONSTRUCT THE RIGHT TURN LANE NEXT TO THE SOUTHBOUND LANE ON US 1.

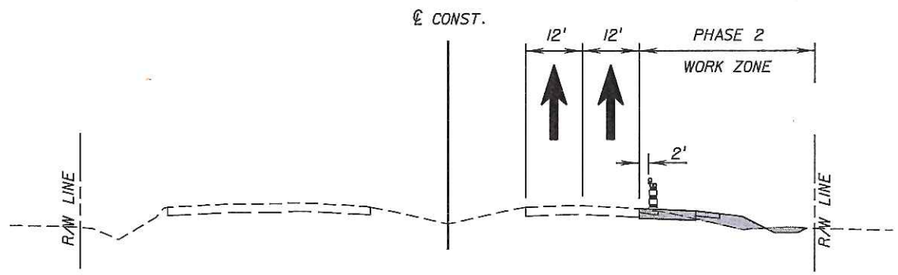
1. CONSTRUCT NEW RIGHT TURN LANE NEXT TO THE SOUTHBOUND LANE AS SHOWN ON THE TYPICAL SECTIONS AND IN THE PLANS.
2. CONSTRUCT DITCHES AND DRAINAGE STRUCTURES.
3. MAINTAIN SOUTHBOUND TRAFFIC IN THE INSIDE LANE DURING AN ACTIVE WORK ZONE. MAINTAIN TRAFFIC IN BOTH LANES DURING DURING AN INACTIVE WORK ZONE.
4. TRAFFIC SHALL BE CONTROLLED IN ACCORDANCE WITH STANDARD INDEX NO. 613.



ACTIVE WORK ZONE

STA. 489+34.77 TO STA. 493+00.78

SPEED LIMIT = 55 MPH



INACTIVE WORK ZONE

STA. 489+34.77 TO STA. 493+00.78

SPEED LIMIT = 55 MPH

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TRAFFIC CONTROL PLAN TYPICAL SECTION

SHEET NO. 53

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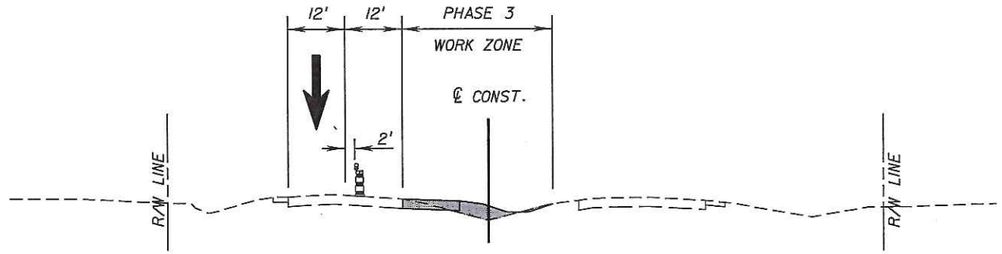
PHASE 3

NOTE: THE INTENT OF PHASE 3 IS TO CONSTRUCT THE LEFT TURN LANE NEXT TO THE NORTHBOUND LANE ON US 1.

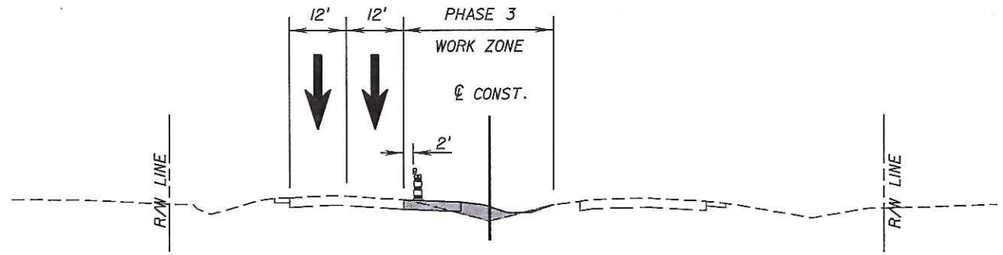
1. CONSTRUCT NEW LEFT TURN LANE NEXT TO THE NORTHBOUND LANE AS SHOWN ON THE TYPICAL SECTIONS AND IN THE PLANS.
2. CONSTRUCT MEDIAN DITCHES AND DRAINAGE STRUCTURES.
3. MAINTAIN NORTHBOUND TRAFFIC IN THE OUTSIDE LANE DURING AN ACTIVE WORK ZONE. MAINTAIN TRAFFIC IN BOTH LANES DURING DURING AN INACTIVE WORK ZONE.
4. TRAFFIC SHALL BE CONTROLLED IN ACCORDANCE WITH STANDARD INDEX NO. 613.



ACTIVE WORK ZONE

STA. 494+34.32 TO STA. 499+10.00

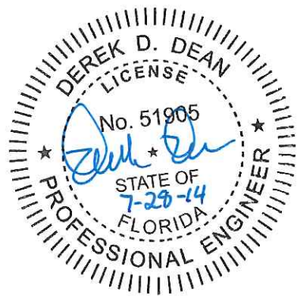
SPEED LIMIT = 55 MPH



INACTIVE WORK ZONE

STA. 494+34.32 TO STA. 499+10.00

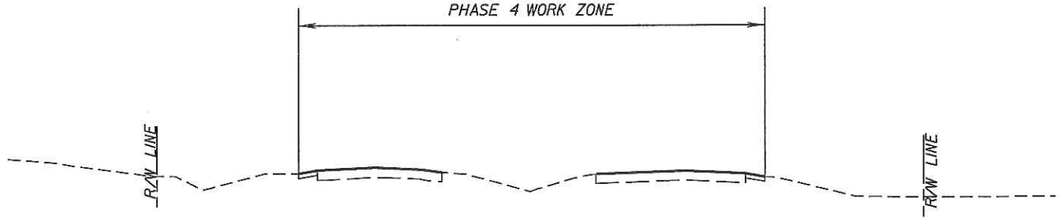
SPEED LIMIT = 55 MPH



PHASE 4

NOTE: THE INTENT OF PHASE 4 IS TO MILL AND RESURFACE WITHIN THE LIMITS OF THE PROJECT ON US 1.

1. MILL AND RESURFACE US 1 AS SHOWN IN THE TYPICAL SECTIONS AND IN THE PLANS.
2. TRAFFIC SHALL BE CONTROLLED IN ACCORDANCE WITH STANDARD INDEX NO. 613.



STA. 489+34.77 TO STA. 499+10.00

SPEED LIMIT = 55 MPH

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TOMOKA HOLDINGS, LLC		TRAFFIC CONTROL PLAN TYPICAL SECTION	SHEET NO.
COUNTY	PROJECT		
VOLUSIA	ORMOND CROSSINGS		54

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GENERAL NOTES

1. 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.

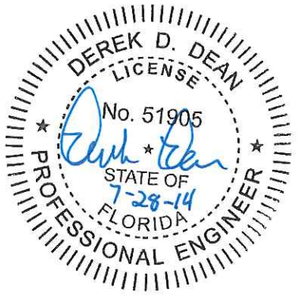
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS (OR 10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
FLORIDA POWER & LIGHT	TRACY STERN	(800) 868-9554
AT&T DISTRIBUTION	REBECCA COCHRANE	(386) 252-0662
BRIGHTHOUSE NETWORKS	LARRY HENDERSON	(386) 446-1420
CITY OF ORMOND BEACH	BOB KING	(386) 676-3269
AT&T CORPORATION	GREG JACOBSON	(813) 342-0512
TRAFFIC CONTROL DEVICES	GRADY HUTCHINS	(407) 448-1117
TECO PEOPLES GAS	BROOKE STONE	(386) 671-2235
VOLUSIA COUNTY WATER & UTILITY SERVICES	ALAN FERGUSON	(386) 822-6465

4. ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FACILITIES, AS INDICATED ON THE UTILITY WORK SCHEDULE, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE IMPACTED UTILITIES AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT. THE COST OF THIS STAKING SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE PROJECT.



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS					
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Inwood consulting engineers
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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

UTILITY ADJUSTMENTS
GENERAL NOTES

SHEET NO. 55

gvanbueren 7/28/2014 8:49:05 AM F:\Projects\MET-002-01\utils\GNNTUW01.DGN

0 10 40
Feet

STA.493+94.87 ℄ CONST. US 1 =
STA. 937+87.01 ℄ CONST. ORMOND CROSSINGS BLVD.

PINE TREE DR

ASPH ROAD

GUTTER

CONC CURB

CONC CURB

ASPHALT CURB/ FLUME

EDGE OF PAVEMENT

R/W LINE

TOP OF BANK

BOTTOM OF BANK

TOP OF BANK

EDGE OF PAVEMENT

PROPOSED OE

EXISTING OE
TO BE REMOVED

489 TOP OF BANK

490

491

℄ CONST. US 1

492

493

494

BOTTOM OF BANK

N 49° 51' 10" W

TOP OF BANK

EXISTING AERIAL FOC
TO BE REMOVED

EXISTING GAS LINE
TO REMAIN

PAVD SHLDR

GAS MKR

TOP OF BANK

GAS
FIBER OPTIC
RISER

BOTTOM OF BANK

BEGIN CONSTRUCTION
STA 489+30.00

TOP OF BANK

EXISTING OE
TO REMAIN

EXISTING WATER LINE
TO REMAIN

EXISTING OE
TO REMAIN

R/W LINE

EXISTING OE
TO BE REMOVED

PROPOSED OE

25' PROPOSED
MULTI-USE EASEMENT

R/W LINE

℄ CONST. ORMOND CROSSINGS
BOULEVARD

16" WM (SEE SAI PLANS)

8" WM
SEE SAI PLANS

6" RM
SEE SAI PLANS

8" PVC SANITARY
BY OTHERS

WOOD BILLBOARD
PERMIT #8073
2 WIDE X 16 TALL (KB HOME) LAMA

937

936

N 40° 9' 9" E

DEREK D. DEAN
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No. 51905
STATE OF
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PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

UTILITY ADJUSTMENTS

SHEET NO. 56

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0 10 40
Feet

ASPH ROAD
BREAKLINE
BREAKLINE
BREAKLINE
TOP OF BANK
BOTTOM OF BANK
R/W LINE
ASPHALT PAVEMENT
6' CLF
CONC S/W
BOTTOM OF BANK
EXISTING OE
END CONSTRUCTION
STA 499+10.00
ASPH SHOULDER
EDGE OF PAVT
PAVD SHLDR
EDGE OF PAVT
TOP OF BANK
495
496
497
498
499
BOTTOM OF BANK
N 49° 51' 10" W
℄ CONST. US 1
TOP OF BANK
YIELD
EDGE OF PAVT.
EXISTING GAS LINE
TO REMAIN
SHLDR
GAS
PAVD SHLDR
EXISTING OE
TO BE REMOVED
PROPOSED OE
EXISTING OE
TO REMAIN
PROPOSED
AERIAL FOC
FIBER OPTIC
MARKER
EXISTING AERIAL FOC
TO BE REMOVED
16" FM (SEE SAI PLANS)
12" RM (SEE SAI PLANS)
R/W LINE
25' PROPOSED
MULTI-USE EASEMENT
R/W LINE
EXISTING WATER LINE
TO REMAIN

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STATE OF
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PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

UTILITY ADJUSTMENTS

SHEET NO. 57

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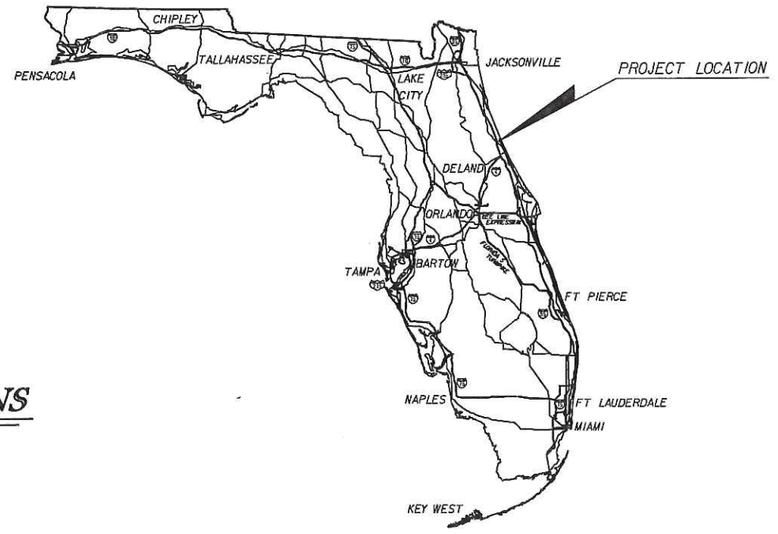
TOMOKA HOLDINGS, LLC

CONTRACT PLANS

ORMOND CROSSINGS BOULEVARD EAST

SIGNING AND PAVEMENT MARKING PLANS



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3 TO S-8	PLAN SHEET

SIGNING AND PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO:

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

3000 DOVERA DRIVE, SUITE 200
OVIEDO, FL 32765
PHONE 407.971.8850

PLANS PREPARED BY:

Inwood consulting engineers
3000 Dovera Drive, Suite 200
Oviedo, FL 32765
Certificate Number 7074
Vendor Number 59-321-6593-002
Phone 407.971.8850 Fax 407.971.8955

DEREK D. DEAN LICENSE No. 51905 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-28-14

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNING AND PAVEMENT MARKING PLANS ENGINEER OF RECORD: DEREK D. DEAN, P.E.

P.E. NO.: 51905

SHEET NO. S-1

FDOT PROJECT LIAISON: TUSHAR PATEL

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-3		S-4		S-5		S-6		S-7		S-8															
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
700-20-11	SIGN SINGLE POST (<12 SF) (F&I)	AS																									
	R2-1 (24"x30")		1						1														2		2		
	W9-1R (30"x30")				1																		1		1		
	R3-7R (30"x30")						1		1														2		2		
	R4-7 (24"x30"), OM1-1 (18"x18")								1														1		1		
	R1-1 (30"x30"), R6-3 (24"x18")								1														1		1		
	R6-1R (36"x12"), R6-1L (36"x12")								1														1		1		
	R6-1R (36"x12"), R1-2 (36"x36")										1		1										2		2		
700-20-60	SIGN SINGLE POST (<12 SF) (REMOVE)	AS									5		1										6		6		
705-11-1	DELINEATOR (FLEXIBLE)	EA									1		1										2		2		
706-3	REFLECTIVE PAVEMENT MARKERS WHITE / RED	EA	14		28		32		17		37		50										178		178		
710-11-290	PAINTED PAVEMENT MARKINGS, ISLAND NOSE, YELLOW	SF							38.9														38.9		38.9		
710-11-331	PAINTED PVMT MRKS, BLACK, SKIP(10-10-30), 6"	GM			0.038		0.030																0.068		0.068		
711-11-111	THERMOPLASTIC, STD, WHITE, SOLID, 6"	NM	0.102		0.212		0.222		0.102		0.157		0.202										0.997		0.997		
711-11-122	THERMOPLASTIC, STD, WHITE, SOLID, 8"	LF					68		132														200		200		
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF							204														204		204		
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF							40														40		40		
711-11-131	THERMOPLASTIC, STD, WHITE, SKIP (10-30), 6"	GM	0.106		0.174		0.167		0.023		0.110		0.132										0.712		0.712		
711-11-131	THERMOPLASTIC, STD, WHITE, SKIP (10-10-20), 6"	GM			0.038		0.030																0.068		0.068		
711-11-151	THERMOPLASTIC, STD, WHITE, SKIP (6-10), 6"	LF					30				120		126										276		276		
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA					1		2														3		3		
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	EA					3		6		6		6										21		21		
711-11-211	THERMOPLASTIC, STD, YELLOW, SOLID, 6"	NM	0.101		0.213		0.213		0.065		0.090		0.125										0.807		0.807		
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF							33														33		33		
711-11-251	THERMOPLASTIC, STD, YELLOW, SKIP (10-30), 6"	LF									64		68										132		132		

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

TABULATION OF QUANTITIES

SHEET NO. S-2

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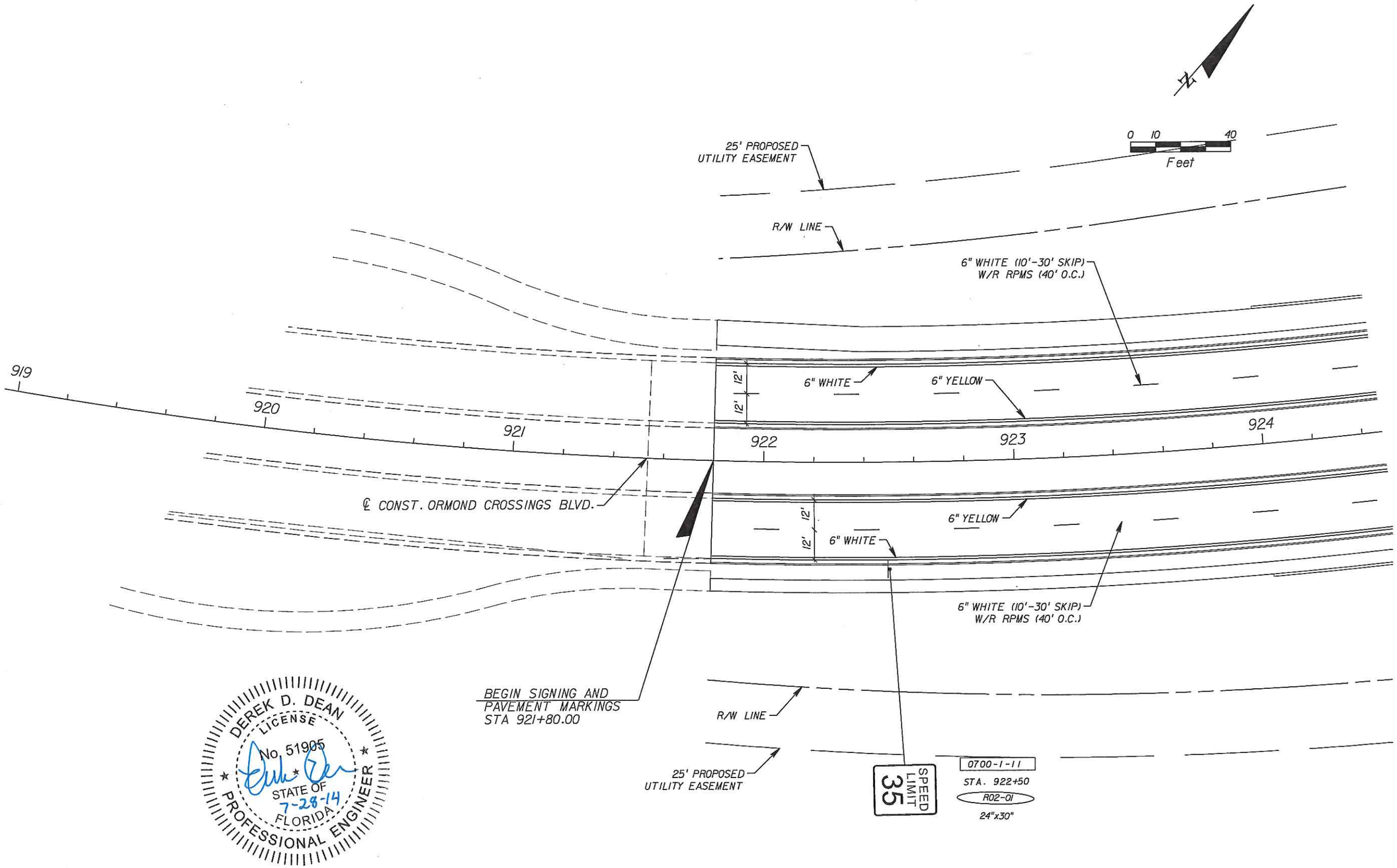

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7-28-14

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

SHEET NO. S-3

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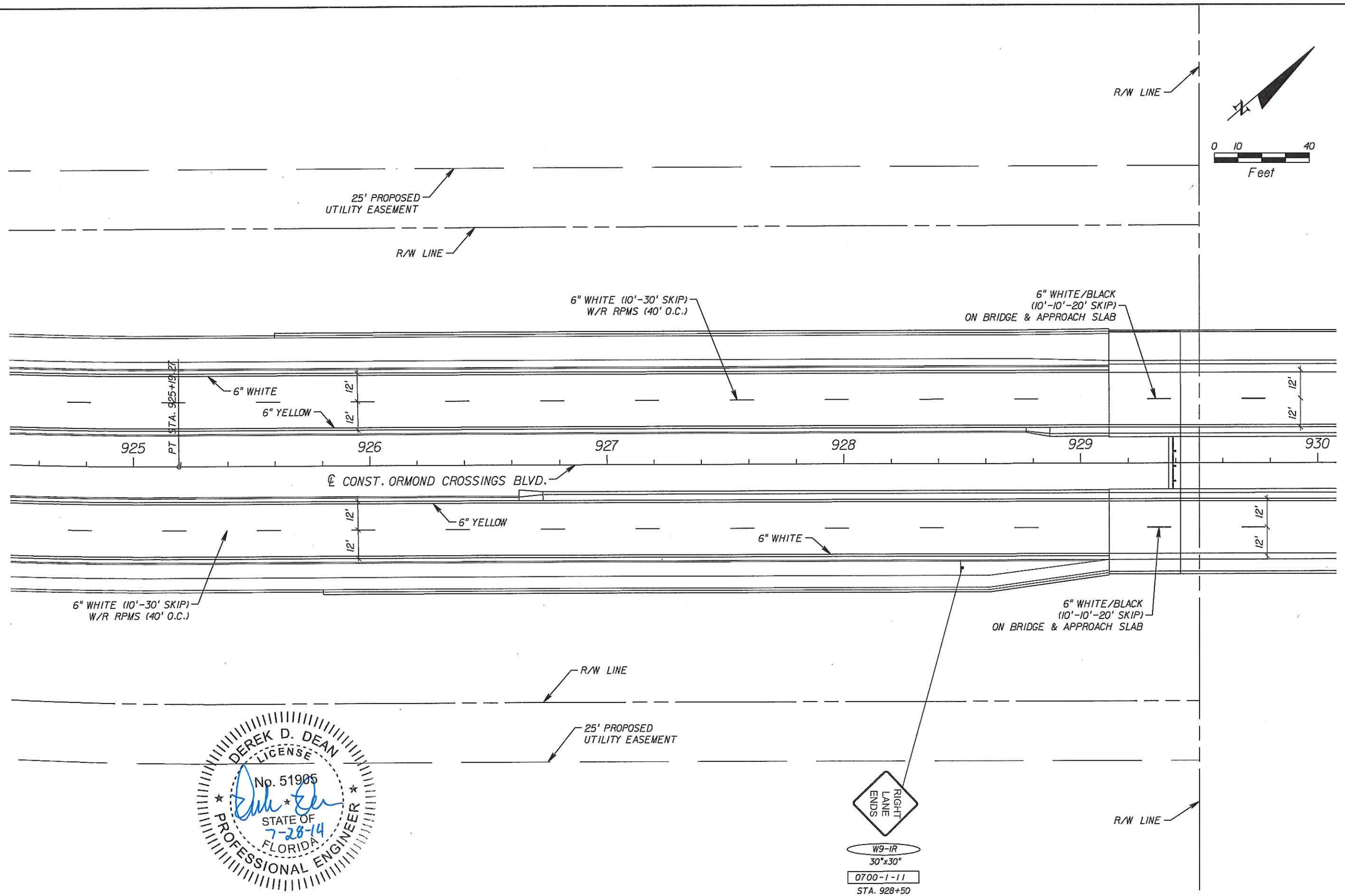

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7-28-14

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

SHEET NO. S-4

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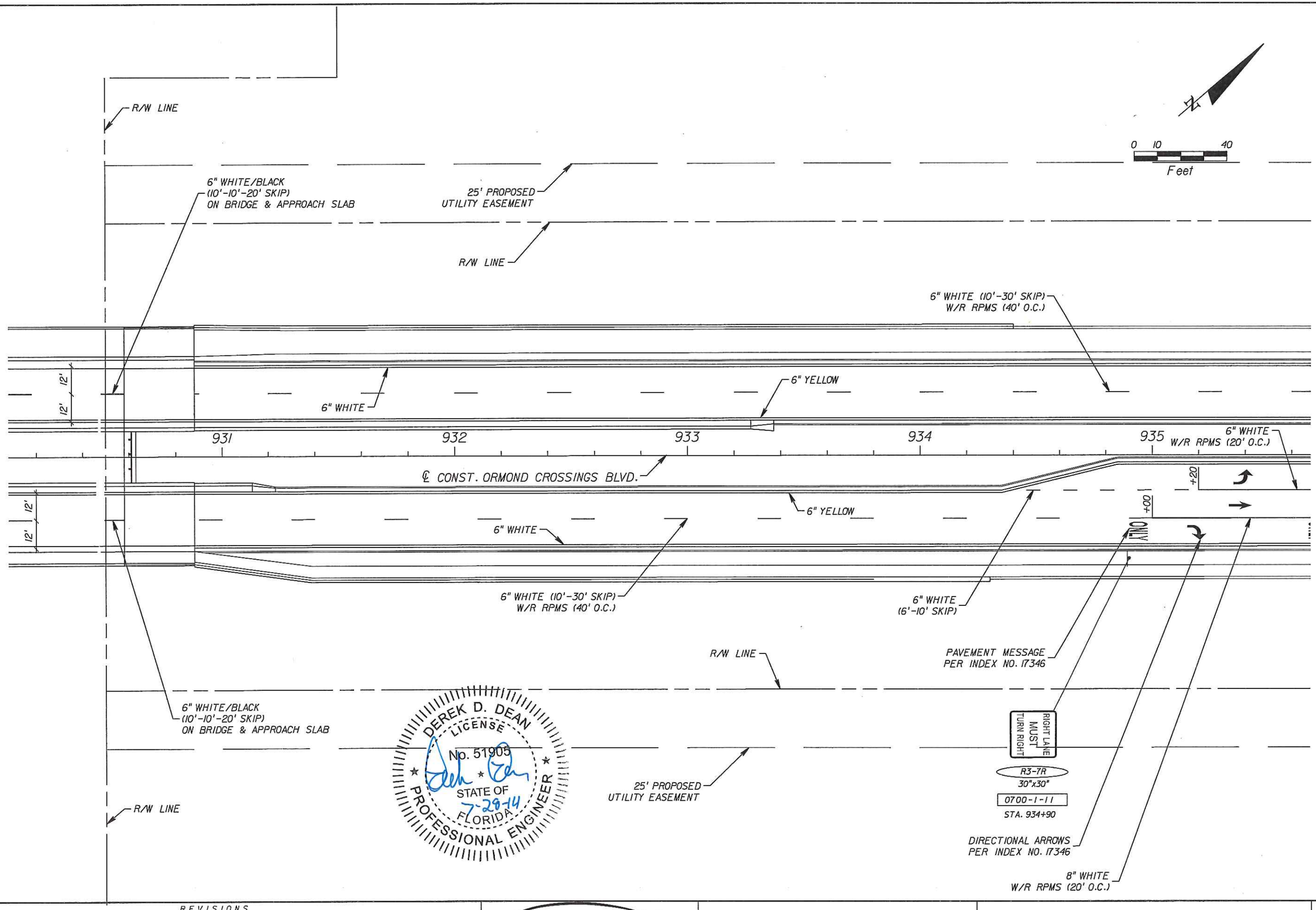

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TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

SHEET NO. S-5

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0700-1-11
STA. 935+80
R02-01
24"x30"

0700-1-11
R04-07
24"x30"
OM1-1
18"x18"
STA. 936+95

SPEED LIMIT 35

25' PROPOSED UTILITY EASEMENT

R/W LINE

6" WHITE (10'-30' SKIP) W/R RPMS (40' O.C.)

6" WHITE

6" YELLOW

12'

12'

936

6" YELLOW

937

+00

12'

12'

ONLY

ONLY

6" WHITE W/ W/R RPMS (20' O.C.)

8" WHITE W/ W/R RPMS (20' O.C.)

24" WHITE

6" WHITE

PER INDEX 17346 (TYP.)

25' PROPOSED UTILITY EASEMENT

R/W LINE

RIGHT LANE MUST TURN RIGHT

R3-7R
30"x30"
0700-1-11
STA. 936+44

HIGHWAY DIVIDED

STOP

R01-01
30"x30"
R06-3
24"x18"
STA. 936+79
0700-1-11

ONE WAY

ONE WAY

R6-1R
36"x12"
R6-1L
36"x12"
STA. 937+25
0700-1-11

12" WHITE (10' CROSSWALK)

493

494

℄ CONST. US 1

℄ CONST. ORMOND CROSSINGS BLVD.

495

END SIGNING AND PAVEMENT MARKINGS
STA. 937+41.61

END PROJECT
STA. 937+87.01 ℄ ORMOND CROSSINGS BLVD. =
STA. 493+94.87 ℄ US 1

R/W LINE

0 10 40
Feet

DEREK D. DEAN
LICENSE
No. 51905
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
Certificate of Authorization No. 7074
3000 Dovera Drive, Suite 200
Winter Springs, FL 32708
p 407.971.8850

TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

SHEET NO. S-6

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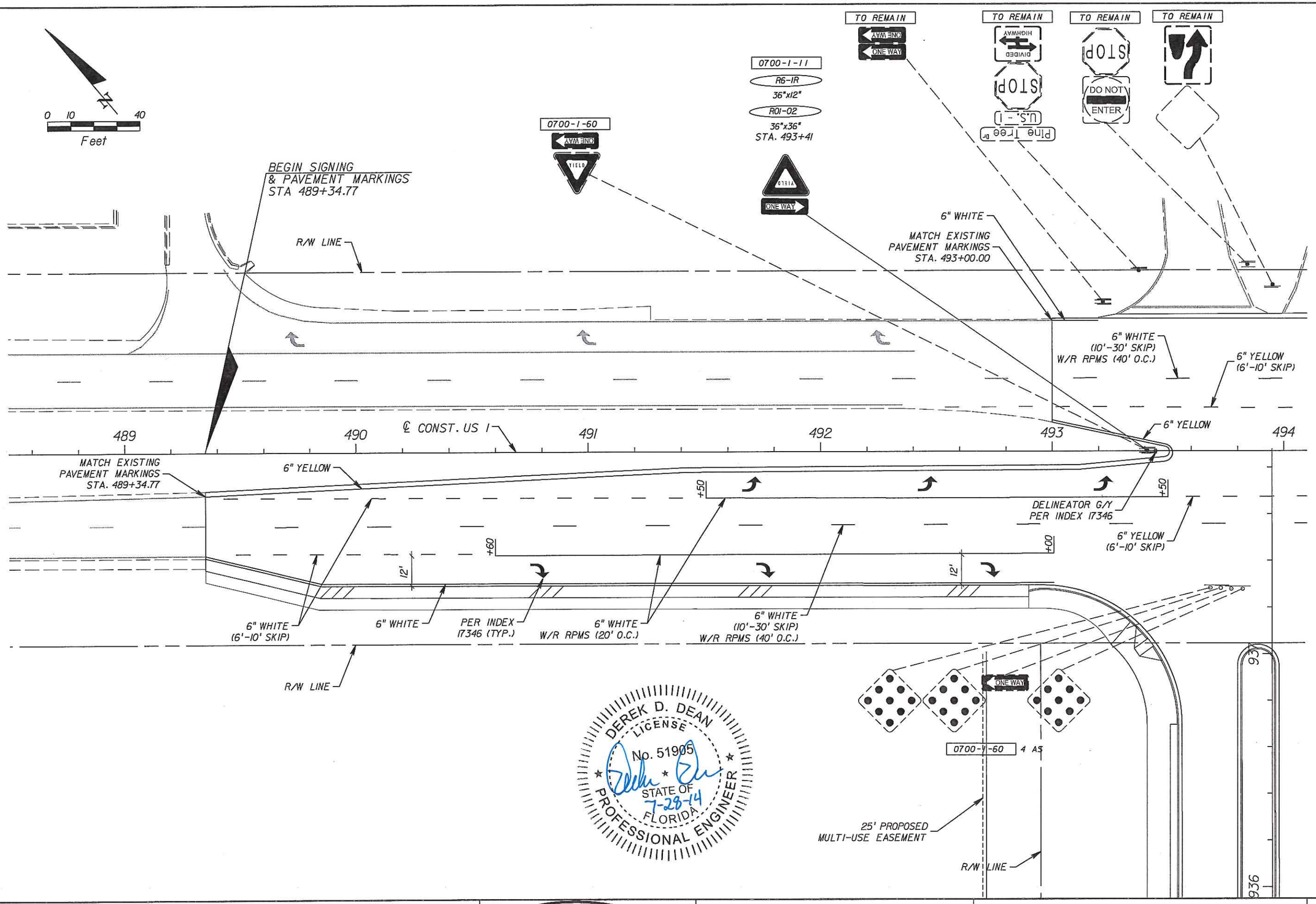

DEREK D. DEAN
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PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
Certificate of Authorization No. 7074
3000 Dovera Drive, Suite 200
Winter Springs, FL 32708
p 407.971.8850

TOMOKA HOLDINGS, LLC	
COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

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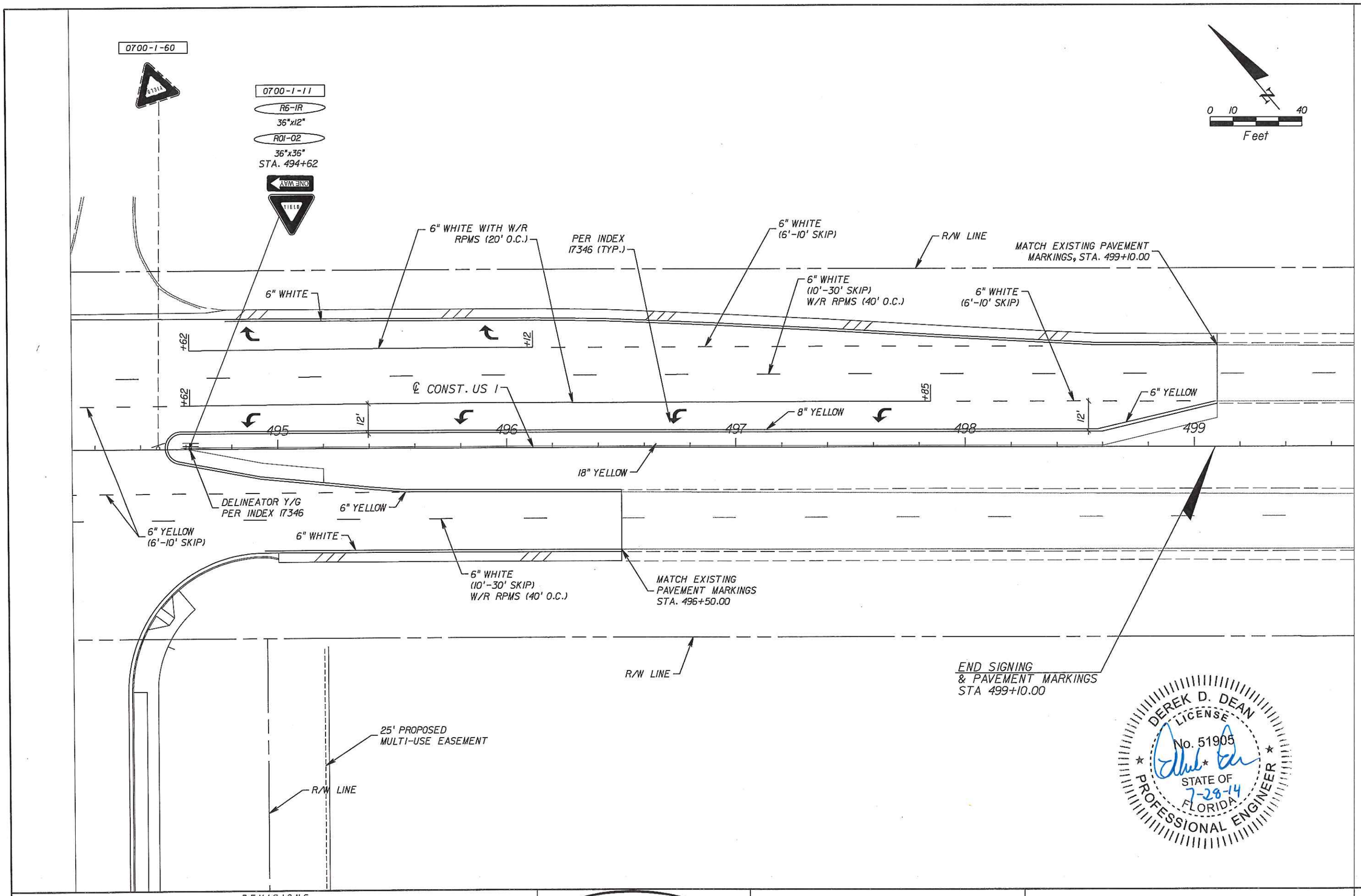

DEREK D. DEAN
LICENSE
No. 51905
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
7-28-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Inwood consulting engineers
Derek D Dean, PE
PE No. 51905
Certificate of Authorization No. 7074
3000 Dovera Drive, Suite 200
Winter Springs, FL 32708
p 407.971.8850

TOMOKA HOLDINGS, LLC

COUNTY	PROJECT
VOLUSIA	ORMOND CROSSINGS

SIGNING AND PAVEMENT MARKINGS

SHEET NO. S-8

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INDEX OF STRUCTURE PLANS

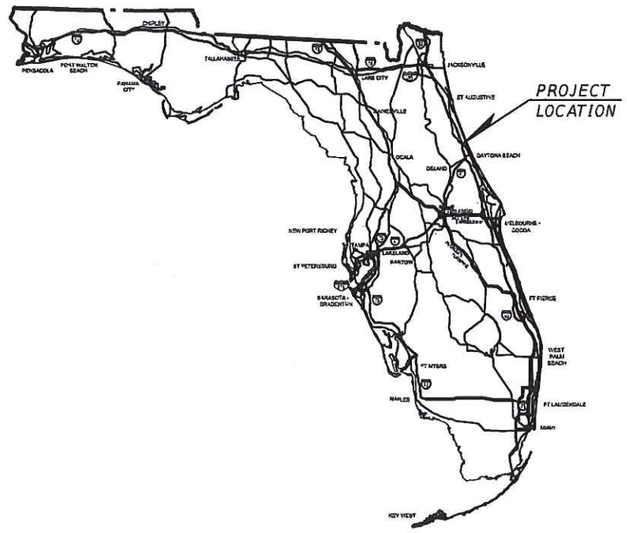
SHEET NO.	SHEET DESCRIPTION
ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR	
S-01	KEY SHEET
S-02	GENERAL NOTES
S-03	PLAN AND ELEVATION
S-04	TYPICAL SECTION THROUGH BRIDGE DECK
S-05	END BENT NO. 1 LEFT & END BENT NO. 2 LEFT
S-06	END BENT NO. 1 RIGHT & END BENT NO. 2 RIGHT
S-07	MSE WALL - RW-1 & RW-2 PLAN
S-08	MSE WALL - RW-1 & RW-2 ELEVATION

TOMOKA HOLDINGS, LLC
ORMOND CROSSINGS BOULEVARD

CONTRACT PLANS

ORMOND BEACH,
VOLUSIA COUNTY, FL

STRUCTURE PLANS



JEFFREY SCOTT TUELL
LICENSE
No 71510
7/24/14
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:
JEFFREY SCOTT TUELL, P.E.
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
PHONE: 407.423.8398
FAX: 407.843.1070

PLANS PREPARED BY:
GAI CONSULTANTS, INC.
CERTIFICATE OF AUTHORIZATION 9951

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

NOT FOR CONSTRUCTION
PRELIMINARY AND SUBJECT TO CHANGE

KEY SHEET REVISIONS	
DATE	DESCRIPTION

STRUCTURE PLANS
ENGINEER OF RECORD: JEFFREY S. TUELL, P.E.

P.E. NO.: 71510

SHEET NO.
S-01

DEVELOPER PROJECT MANAGER: CLINTON SMITH, V.P., TOMOKA HOLDINGS, LLC

GENERAL NOTES

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION, 2014 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2014 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

DESIGN SPECIFICATIONS

1. FDOT STRUCTURES MANUAL DATED JANUARY 2014.
2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION WITH 2013 INTERIMS.
3. FDOT PLANS PREPARATION MANUAL DATED JANUARY 2014.

DESIGN METHODOLOGY

LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE, AND FATIGUE LIMIT STATES.

DESIGN LOADINGS

1. LIVE LOADS: HL-93 WITH DYNAMIC LOAD ALLOWANCE
2. DEAD LOADS
   - A. FUTURE WEARING SURFACE: NO ALLOWANCE
   - B. REINFORCED CONCRETE: 150 PCF
   - C. 32" F-SHAPE TRAFFIC RAILING: 420 PLF
   - D. 32" VERTICAL SHAPE TRAFFIC RAILING: 385 PLF
   - E. 27" PEDESTRIAN/BICYCLE PARAPET: 225 PLF
   - F. RAILING/PARAPET-MOUNTED FENCING: 40 PLF
   - G. STAY-IN-PLACE FORMS: 20 PSF
   - H. THE 8½" DECK THICKNESS INCLUDES ½" SACRIFICIAL THICKNESS INCLUDED IN THE DEAD LOAD OF THE DECK SLAB BUT OMITTED FROM THE SECTION PROPERTIES USED FOR DESIGN.
3. CONSTRUCTION LOADS:
   - A. FINISHING MACHINE LOAD: 20 KIPS
   - B. CONSTRUCTION LIVE LOAD: 20 PSF
     (EXTENDED OVER THE ENTIRE BRIDGE WIDTH AND 50 FEET IN LONGITUDINAL LENGTH CENTERED ON THE FINISHING MACHINE)
   - C. REMOVABLE DECK CANTILEVER TIMBER FORMS: 15 PSF
     (INCLUDES OVERHANG BRACKETS)
   - D. LIVE LOAD AT THE OUTSIDE EDGE OF DECK: 75 PLF
     (APPLIED DURING DECK PLACEMENT AS A MOVING LOAD OVER A LENGTH OF 20 FEET)
   - E. CONSTRUCTION INACTIVE BASIC WIND SPEED: 66 MPH
     (INCLUDES EXPOSURE PERIOD REDUCTION FACTOR)
   - F. CONSTRUCTION ACTIVE BASIC WIND SPEED: 20 MPH
4. VEHICLE COLLISION FORCE: N/A
   (ABUTMENTS ARE LOCATED OUTSIDE MINIMUM HORIZONTAL CLEARANCE)
5. UTILITIES
   - A. 4" FORCE MAIN: 20 PLF
   - B. 12" REUSE MAIN: 100 PLF
   - C. 16" WATER MAIN: 160 PLF

VERTICAL DATUM

ALL ELEVATIONS REFER TO NGVD 1929 DATUM.

ENVIRONMENTAL CLASSIFICATION

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE
SUBSTRUCTURE: MODERATELY AGGRESSIVE

CONCRETE MATERIAL PROPERTIES

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE IN STRUCTURE
II	3,400	TRAFFIC RAILING & PARAPET
II (BRIDGE DECK)	4,500	BRIDGE DECK
IV	5,500	C.I.P. SUBSTRUCTURE
V (SPECIAL)	6,000	PRESTRESSED PILES
VI	8,500	PRESTRESSED BEAMS

CONCRETE EDGES AND JOINTS

1. PROVIDE ¾" CHAMFERS ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED.
2. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.

CONCRETE COVER

SUPERSTRUCTURE:
- CAST-IN-PLACE (TOP OF DECK): 2½"
  (INCLUDES ½" ALLOWANCE FOR PLANING)
- CAST-IN-PLACE (EXCEPT TOP OF DECK): 2"
- PRECAST PRESTRESSED BEAMS: 2"
  (EXCEPT TOP SURFACE)
- TOP SURFACE OF BEAM FLANGE: 1"

SUBSTRUCTURE:
- CAST-IN-PLACE (CAST AGAINST EARTH): 4"
- CAST-IN-PLACE (FORMED SURFACES): 3"
- CAST-IN-PLACE (TOP OF BEAM PEDESTALS): 2"
- PRECAST PRESTRESSED PILING: 3"

CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSIONS IS NOTED TO FACE OF CONCRETE.

CONCRETE SURFACE FINISH

A CLASS 5 APPLIED FINISH COATING SHALL BE APPLIED TO THE SURFACES LISTED BELOW AND AS SHOWN IN THE SURFACE FINISH DETAILS ON THIS SHEET.

- A. ALL EXPOSED SURFACES OF PEDESTRIAN PARAPET AND TRAFFIC RAILING BARRIERS.
- B. VERTICAL EDGES AND UNDERSIDE OF DECK SLAB OUTSIDE OF EXTERIOR BEAMS
- C. ALL EXPOSED SURFACES OF END BENTS (EXCEPT TOP OF CAPS AND PEDESTALS), INCLUDING EXPOSED PORTIONS OF CHEEKWALLS.
- D. EXTERIOR FACES OF EXTERIOR BEAMS.
- E. ALL EXPOSED MSE WALL PANELS AND COPING FACES.

ABBREVIATIONS

FFBW	DENOTES "FRONT FACE OF BACKWALL"
EF	DENOTES "EACH FACE"
FF	DENOTES "FAR FACE"
NF	DENOTES "NEAR FACE"
OH	DENOTES "OVERHANG"
T.R.B.	DENOTES "TRAFFIC RAILING BARRIER"
UNO	DENOTES "UNLESS NOTED OTHERWISE"

VERIFICATION OF EXISTING CONDITIONS

THESE PLANS HAVE BEEN PREPARED BASED ON INFORMATION OBTAINED FROM SITE PLANS AND FIELD SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO CONSTRUCTION.

FAA NOTIFICATION

THIS PROJECT SITE IS WITHIN THE EXTENDED APPROACH PATH OF ORMOND BEACH MUNICIPAL AIRPORT (OMN). THE OWNER SHALL NOTIFY AND COORDINATE WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) FOR PERMANENT STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE WITH THE FAA AT LEAST 45 DAYS BEFORE COMMENCEMENT FOR ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT THAT REQUIRE NOTIFICATION PER CFR TITLE 14 PART 77. THIS INCLUDES ANY CRANE OR OTHER EQUIPMENT THAT EXCEEDS 63 FEET IN HEIGHT OR TRASMITS FREQUENCIES THAT MAY INTERFERE WITH AIR NAVIGATIONAL COMMUNICATIONS. FOR ADDITIONAL INFORMATION AND TO SUBMIT NOTIFICATION FORM FAA 7460-1 ELECTRONICALLY, GO TO THE FAA OE/AAA WEBSITE http://oeaaa.faa.gov/ . ADDITIONALLY, THE CONTRACTOR SHOULD ANTICIPATE CERTAIN RESTRICTIONS INCLUDING LOWERING CRANE BOOMS WHEN NOT IN OPERATION AND LIMITATION OF SMOKE GENERATED BY EQUIPMENT, LIGHTING USED DURING NIGHTTIME OPERATIONS, AND STOCKPILING OF MATERIAL THAT COULD ATTRACT WILDLIFE.

RAILROAD COORDINATION

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES IN THE PROXIMITY OF THE RAILROAD RIGHT OF WAY WITH:
MR. CHARLES STONE, DIRECTOR OF ENGINEERING
FLORIDA EAST COAST RAILROAD (FEC RR)
7411 FULLERTON STREET, SUITE 300
JACKSONVILLE, FL 32256
OFFICE PHONE: 1-800-342-1131 x2369

JEFFREY SCOTT TUELL
LICENSE
No 71510
7/24/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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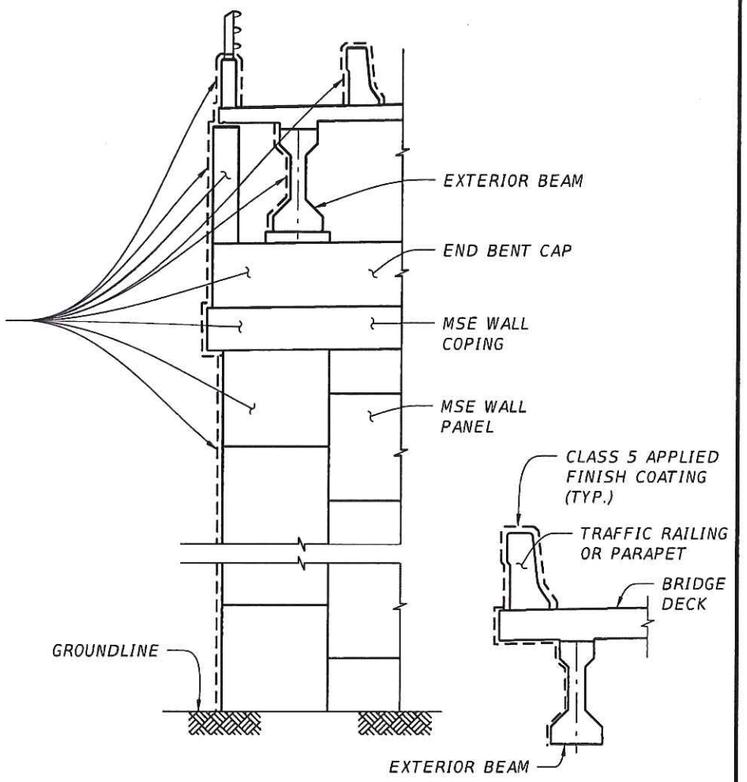


SURFACE FINISH DETAILS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NOT FOR CONSTRUCTION
PRELIMINARY AND SUBJECT TO CHANGE

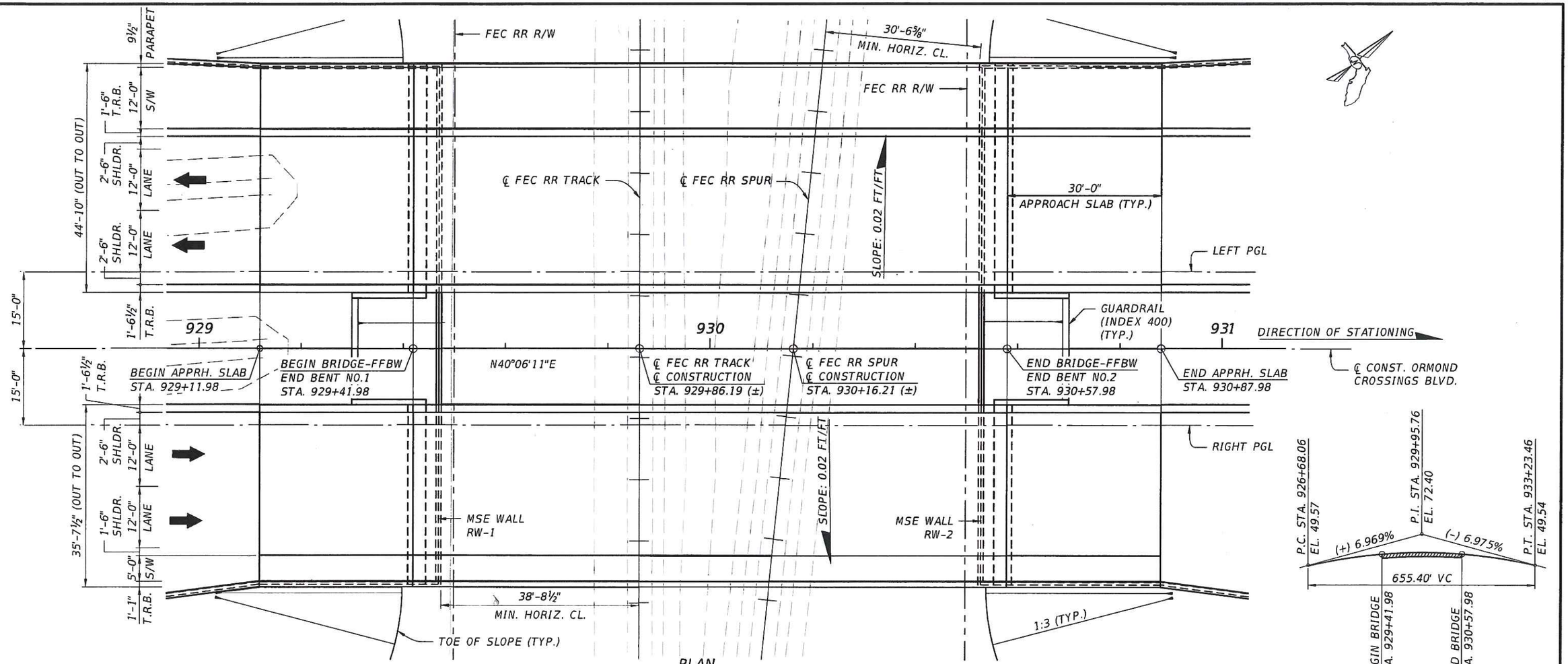
JEFFREY SCOTT TUELL, P.E.
P.E. LICENSE NUMBER 71510
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 9951

DRAWN BY:
CHECKED BY:
DESIGNED BY:
CHECKED BY:

TOMOKA HOLDINGS, LLC

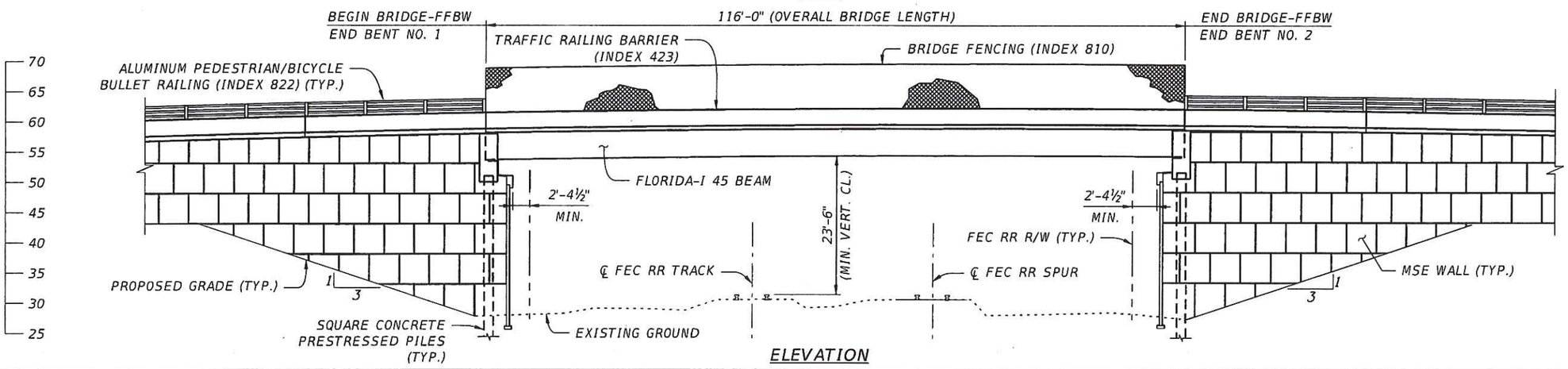
CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: GENERAL NOTES
REF. DWG. NO.
PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR
SHEET NO. S-02



PLAN

VERTICAL CURVE DATA



ELEVATION

JEFFREY SCOTT TUELL LICENSE No 71510 7/24/14 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 9951

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CHECKED BY:	
DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: PLAN AND ELEVATION

REF. DWG. NO.:

PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

SHEET NO.: S-03

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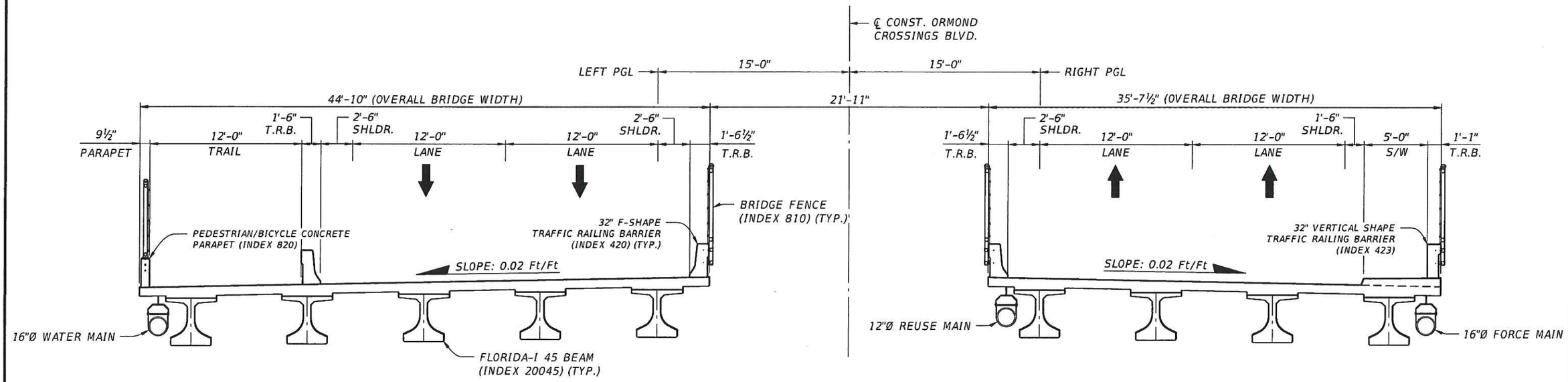

JEFFREY SCOTT TUELL
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
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DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

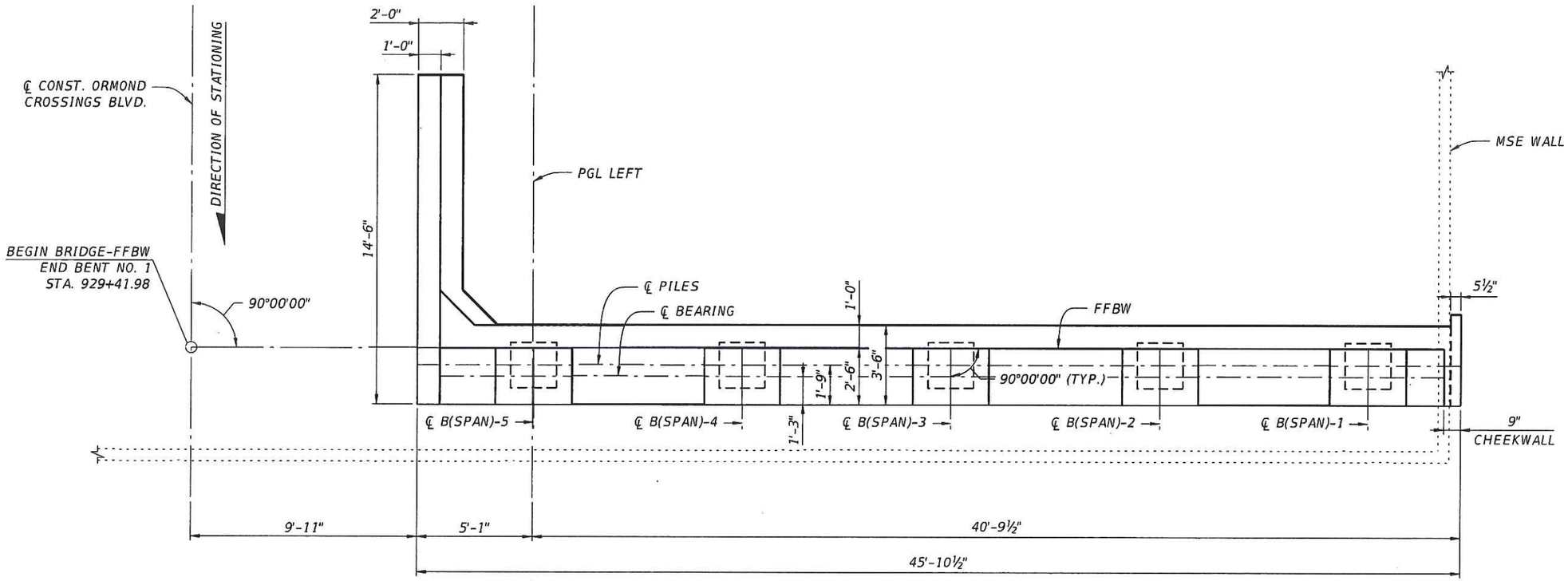
CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: TYPICAL SECTION THROUGH BRIDGE DECK

REF. DWG. NO.:

PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

SHEET NO.: S-04



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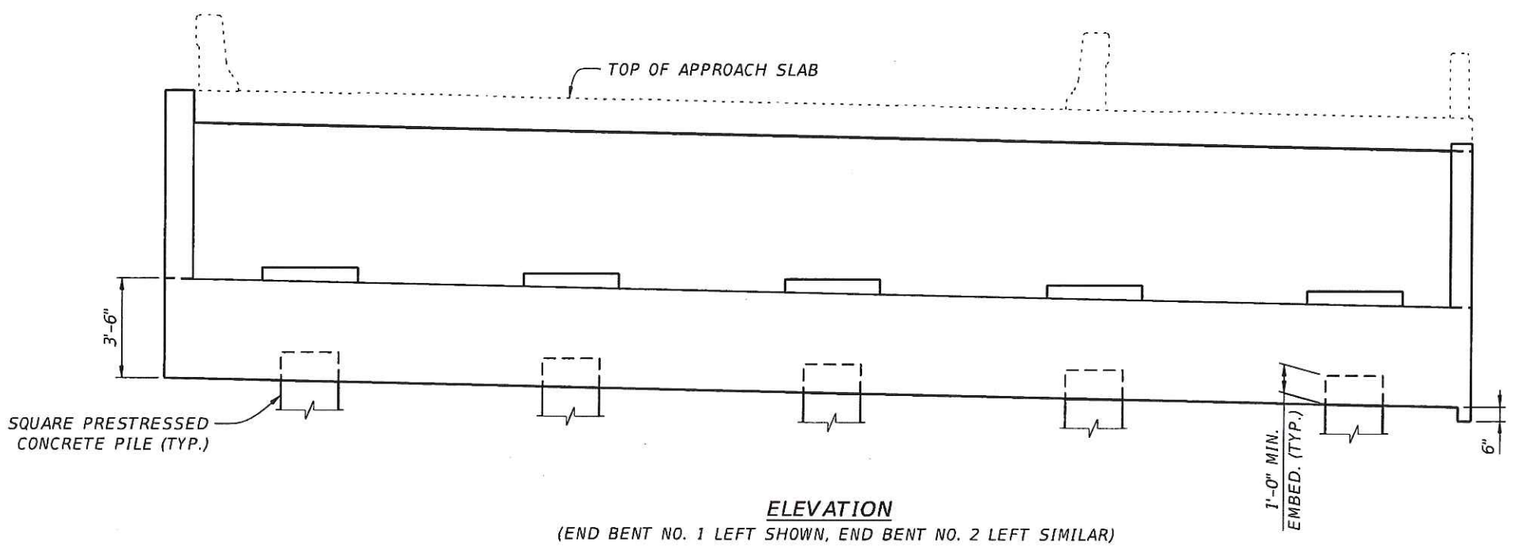

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JEFFREY SCOTT TUELL LICENSE No 71510 7/24/14 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FOR CONSTRUCTION PRELIMINARY AND SUBJECT TO CHANGE			

JEFFREY SCOTT TUELL, P.E.
P.E. LICENSE NUMBER 71510
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 9951

DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: END BENT NO. 1 LEFT & END BENT NO. 2 LEFT

REF. DWG. NO.:

PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

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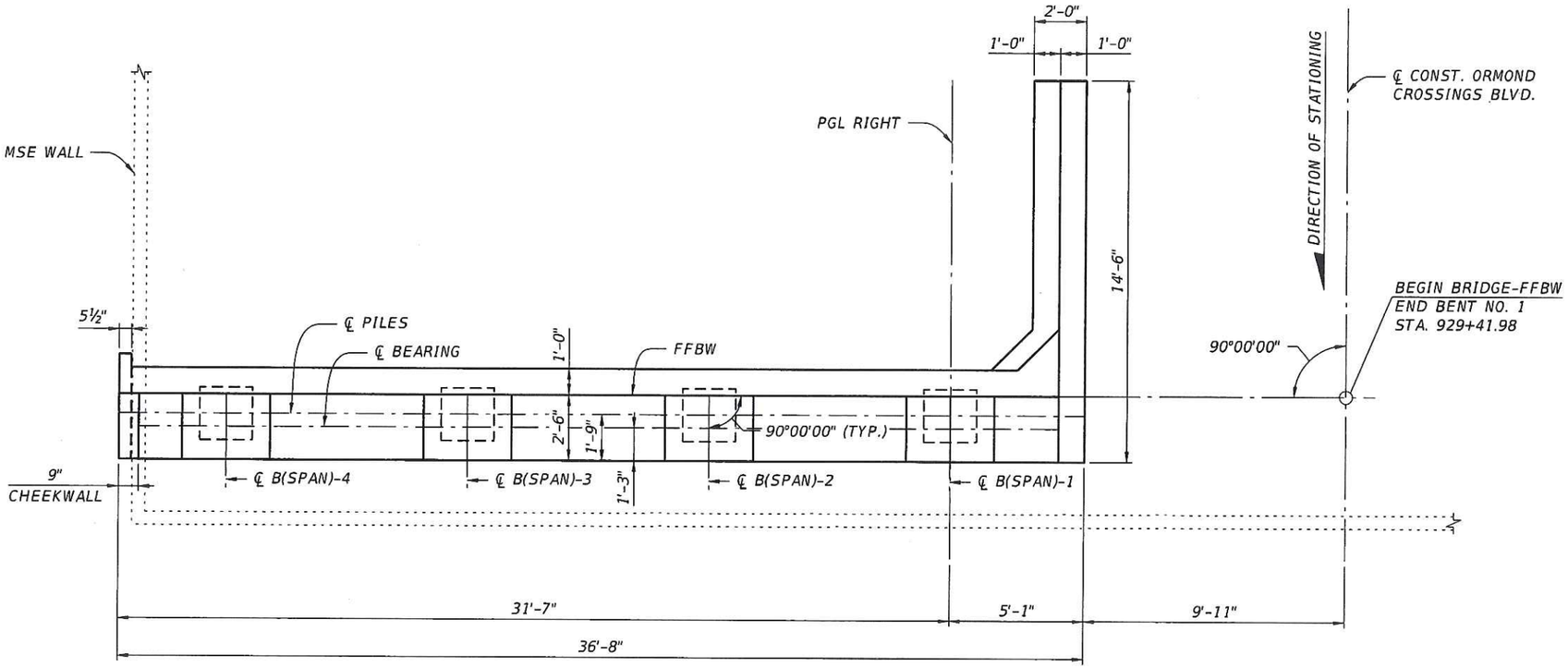

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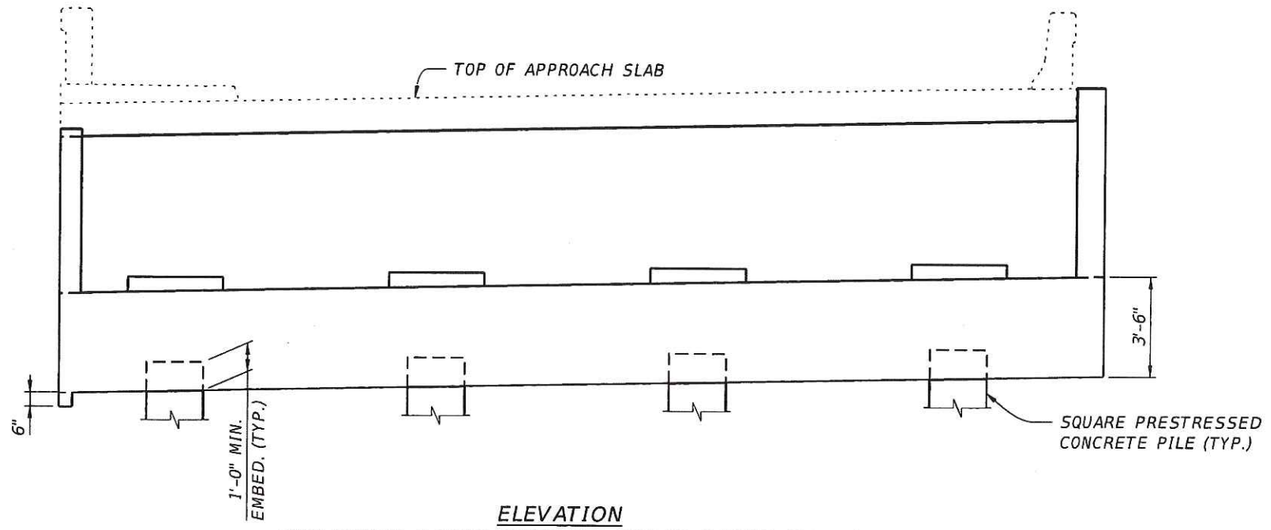

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JEFFREY SCOTT TUELL LICENSE No 71510 STATE OF FLORIDA PROFESSIONAL ENGINEER 7/24/14

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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P.E. LICENSE NUMBER 71510
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 9951

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DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

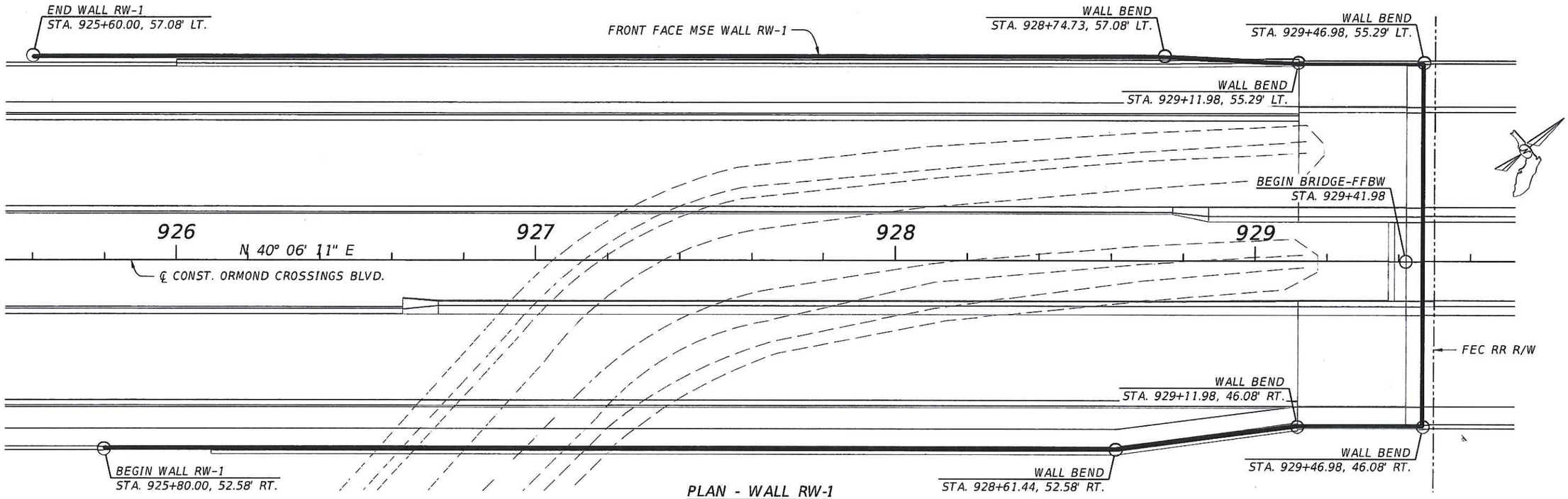
CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: END BENT NO. 1 RIGHT & END BENT NO. 2 RIGHT

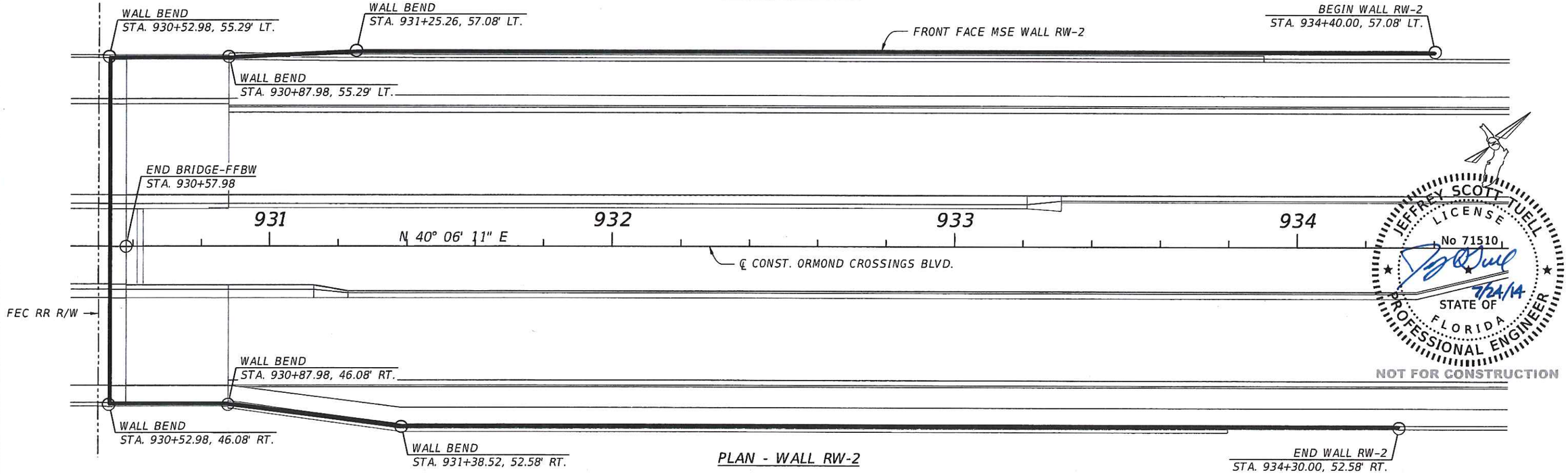
REF. DWG. NO.:

PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

SHEET NO.: S-06



PLAN - WALL RW-1



PLAN - WALL RW-2

JEFFREY SCOTT TUELL
LICENSE
No 71510
7/24/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

REVISIONS						
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JEFFREY SCOTT TUELL, P.E.
P.E. LICENSE NUMBER 71510
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION 9951

DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

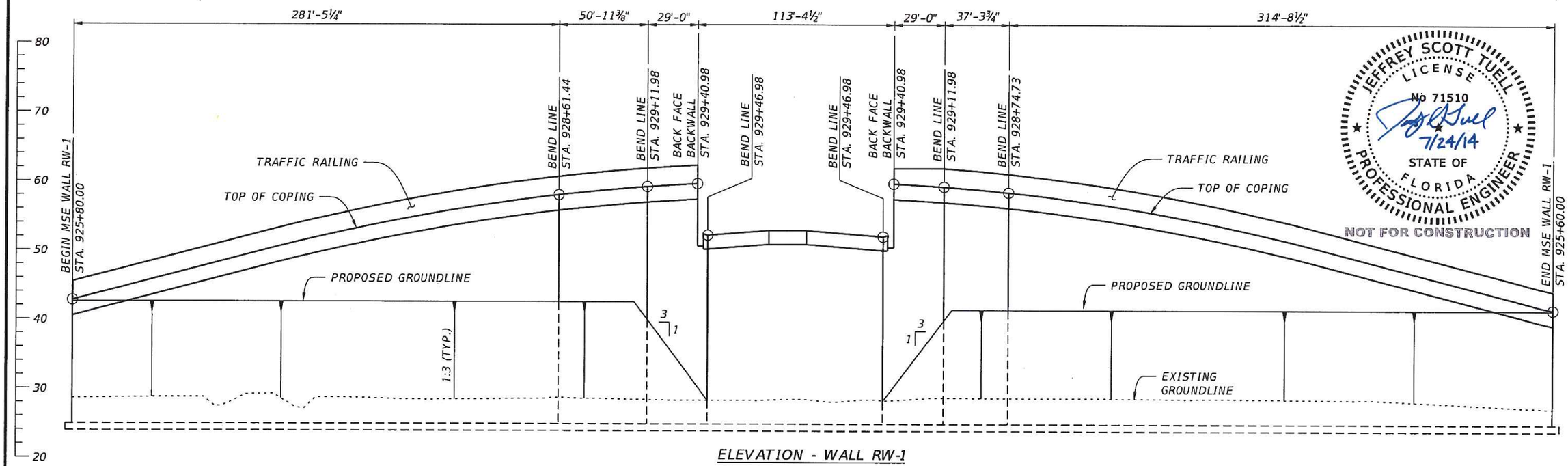
CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: MSE WALL - RW-1 & RW-2 PLAN

REF. DWG. NO.:

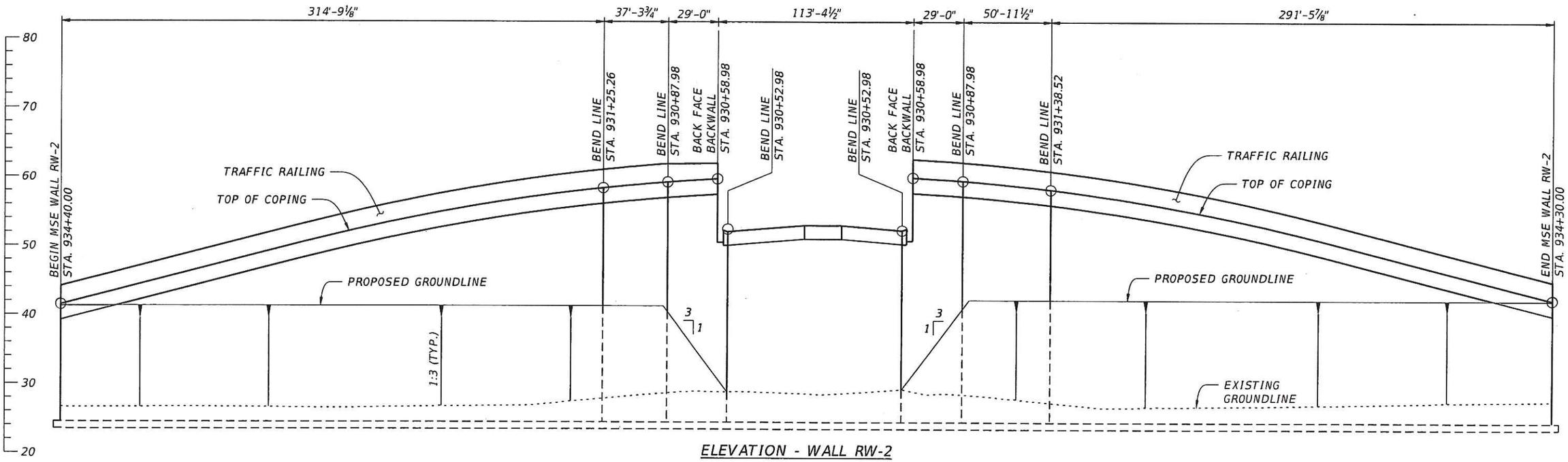
PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

SHEET NO.: S-07



ELEVATION - WALL RW-1

(UNFOLDED FRONT FACE VIEW)



ELEVATION - WALL RW-2

(UNFOLDED FRONT FACE VIEW)

JEFFREY SCOTT TUELL
LICENSE
No 71510
7/24/14
STATE OF
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PROFESSIONAL ENGINEER

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REVISIONS					
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ORLANDO, FL 32801
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DESIGNED BY:	
CHECKED BY:	

TOMOKA HOLDINGS, LLC

CITY, COUNTY, STATE	FL BRIDGE NO.
ORMOND BEACH, VOLUSIA, FL	795XXX

SHEET TITLE: MSE WALL - RW-1 & RW-2 ELEVATION

PROJECT NAME: ORMOND CROSSINGS BLVD. SOUTH OVER FEC RR

REF. DWG. NO.

SHEET NO. S-08

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