



CITY OF PLANT CITY

CONTRACT PLANS FOR TURKEY CREEK ROAD

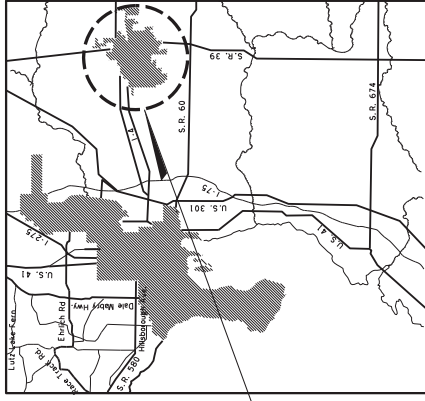
FROM SYDNEY ROAD TO SOUTH OF M.L. KING BLVD (SR 574),
SYDNEY ROAD WIDENING AND AIRPORT ROAD REALIGNMENT

THIS CONTRACT PLAN SET INCLUDES:

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- UTILITY RELOCATION PLANS (CITY WATER & SEWER)
- INDEX OF ROADWAY PLANS
- SHEET NO. 1
- 1A KEY DESCRIPTION
- 2 - 3 SIGNATURE SHEET
- 4 - 5 GENERAL NOTES & PAY ITEM NOTES
- 6 - 8 SUMMARY OF PAY ITEMS
- 9 - 13 DRAINAGE MAP
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- 184 - 195 DRIVEWAY CROSS SECTIONS
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- 225 - 241 UTILITY ADJUSTMENT PLAN
- 242 VERIFIED UTILITY LOCATE SHEET

PROJECT NO.
CIP 69625
CIP 69601-409
CIP 69601-413

SHEET NO.
1



VICINITY MAP
N.T.S.

PLANS PREPARED BY:
HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FL 33609-3444
PHONE: (813) 282-2300
FAX: (813) 282-2440
FPBR CERTIFICATE OF AUTHORIZATION NO. 4213

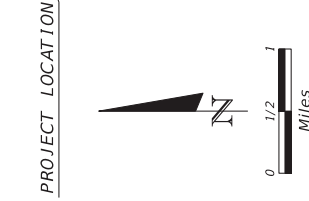


NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

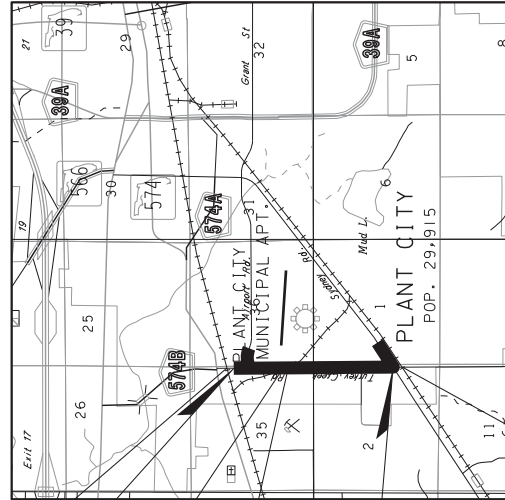
100% SUBMITTAL
JANUARY 27, 2017

ROADWAY PLANS
ENGINEER OF RECORD: THOMAS A. QUINN, P.E.

P.E. NO.: 45353



PROJECT LOCATION



LOCATION MAP

SECTION 35 AND 36, TOWNSHIP 28 SOUTH, RANGE 21 EAST
SECTION 1 AND 2, TOWNSHIP 29 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA

PROJECT LENGTH IS BASED ON $\frac{1}{8}$ OF SURVEY OF TURKEY CREEK ROAD

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7,163.00	1.357
BRIDGES	0	0.000
NET LENGTH OF PROJECT	7,163.00	1.357
EXCEPTIONS	87.00	0.016
GROSS LENGTH OF PROJECT	7,250.00	1.373

CITY PROJECT MANAGER: MIKE SCHENK, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS (DATED 2016-2017). THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED JULY 2016), AND SUPPLEMENTS THERETO (WITH THE EXCEPTION OF DIVISION I AND DIVISION II SECTIONS 100 THRU 103 AND 105); HILLSBOROUGH COUNTY STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION (DATED JUNE 2014), 204, 283, 320, 327, 330, 334, 336, 337, 341, 901, 902, 916 AND 919; THE HILLSBOROUGH COUNTY UTILITY ACCOMMODATION GUIDE (DATED OCTOBER 2015); AND THE LATEST CITY OF PLANT CITY STANDARDS.

ENCL 1

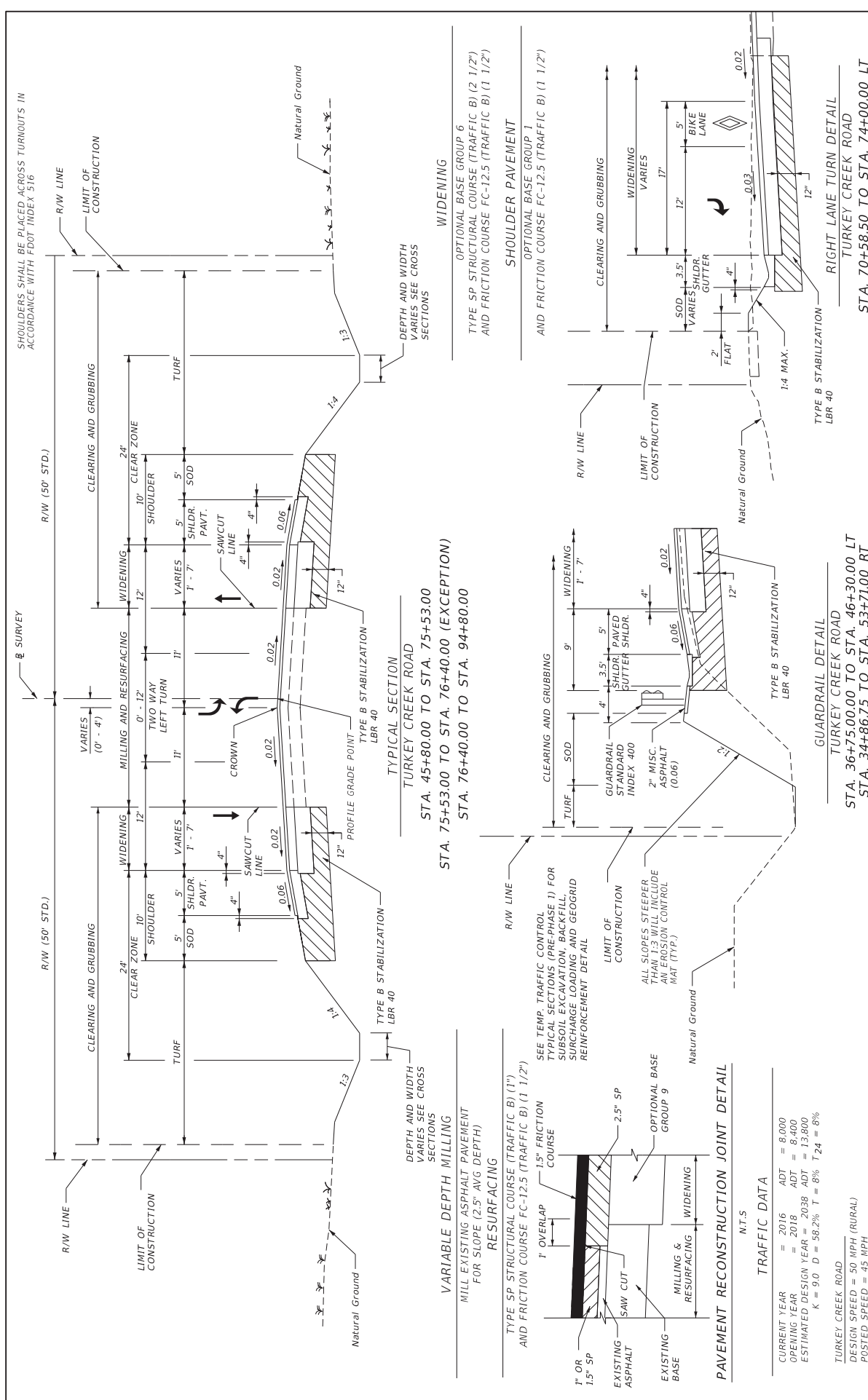
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U.S. ARMY CORPS OF ENGINEERS
PERMIT APP NO: SAJ-2016-02608
DRAWING 1 OF 38



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY:	D. RIGDEN	DATE:	10/16
DRAWN BY:	D. RIGDEN	CHECKED BY:	10/16
SUPERVISED BY:	THOMAS A. QUINN, P.E.	DATE:	10/16

CITY OF PLANT CITY PUBLIC WORKS DIVISION 392 W. RETWILDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	THOMAS A. QUINN, P.E. P.E. License Number 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213
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TURKEY CREEK ROAD STA. 70+58.50 TO STA. 74+00.00 LT	TURKEY CREEK ROAD STA. 36+75.00 TO STA. 46+30.00 LT STA. 34+86.75 TO STA. 53+71.00 RT
--	---

TURKEY CREEK ROAD STA. 45+80.00 TO STA. 75+53.00 STA. 75+53.00 TO STA. 76+40.00 (EXCEPTION) STA. 76+40.00 TO STA. 94+80.00	TURKEY CREEK ROAD STA. 75+53.00 TO STA. 76+40.00 (EXCEPTION) STA. 76+40.00 TO STA. 94+80.00
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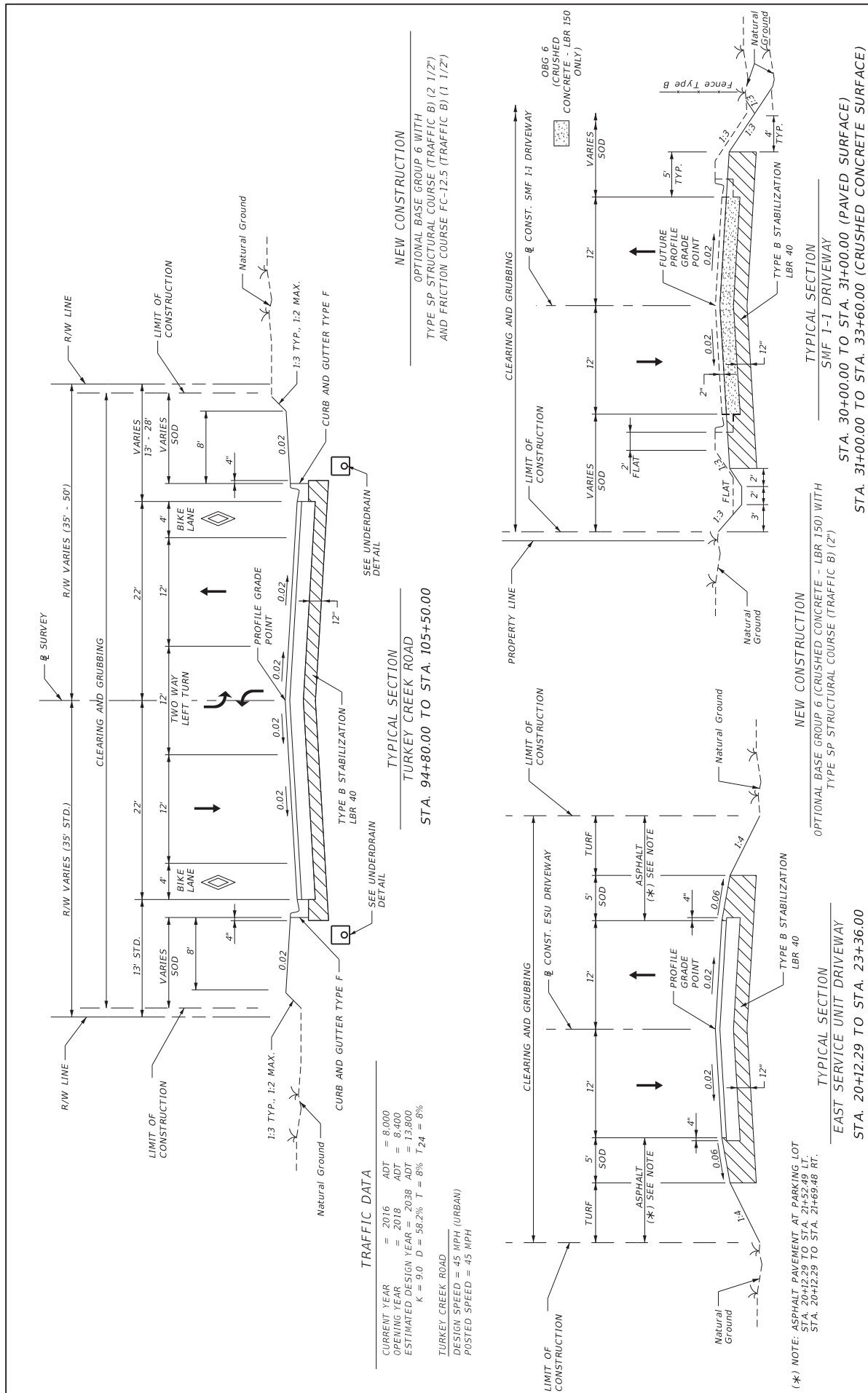
TRAFFIC DATA	CURRENT YEAR = 2016 ADT = 8,000 OPENING YEAR = 2018 ADT = 8,400 ESTIMATED DESIGN YEAR = 2038 ADT = 13,800 K = 9.0 D = 58.2% T = 8% T24 = 8%
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DESIGN SPEED = 50 MPH (RURAL) POSTED SPEED = 45 MPH	TURKEY CREEK ROAD STA. 70+58.50 TO STA. 74+00.00 LT STA. 36+75.00 TO STA. 46+30.00 LT STA. 34+86.75 TO STA. 53+71.00 RT
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U.S. ARMY CORPS OF ENGINEERS
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 DRAWING 3 OF 38

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 10/16/16
 69625
 69601.408
 69601.413
 TYPICAL SECTION (2)
 SHEET NO. 10



TRAFFIC DATA

CURRENT YEAR = 2016 ADT = 8,000
 OPENING YEAR = 2018 ADT = 8,400
 ESTIMATED DESIGN YEAR = 2038 ADT = 13,800
 K = 9.0 D = 58.2% T = 8% I 24 = 8%

TURKEY CREEK ROAD
 DESIGN SPEED = 45 MPH (URBAN)
 POSTED SPEED = 45 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2 1/2")
 AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")

TYPICAL SECTION
 TURKEY CREEK ROAD
 STA. 94+80.00 TO STA. 105+50.00

TYPICAL SECTION
 SMF 1-1 DRIVEWAY
 STA. 31+00.00 TO STA. 33+60.00 (CRUSHED CONCRETE SURFACE)

TYPICAL SECTION
 EAST SERVICE UNIT DRIVEWAY
 STA. 20+12.29 TO STA. 23+36.00

TYPICAL SECTION
 SMF 1-1 DRIVEWAY
 STA. 30+00.00 TO STA. 31+00.00 (PAVED SURFACE)

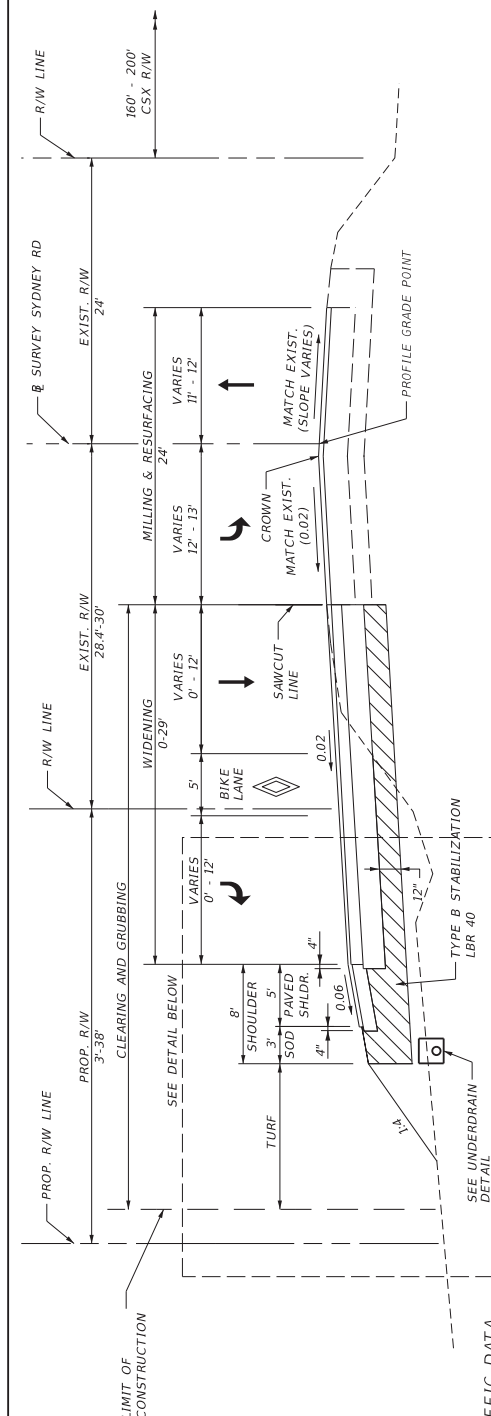
TYPICAL SECTION
 CRUSHED CONCRETE SURFACE
 STA. 31+00.00 TO STA. 33+60.00

(*) NOTE: ASPHALT PAVEMENT AT PARKING LOT
 STA. 20+12.29 TO STA. 21+52.49 LT.
 STA. 20+12.29 TO STA. 21+65.46 RT.

NO.	DATE	REVISIONS	DESCRIPTION	APPROVED

DESIGNED BY: D. QUINN	DATE: 10/16	NAME: D. QUINN	APPROVED BY: T. QUINN
DRAWN BY: T. QUINN	10/16	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETNOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETNOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288
CHECKED BY: T. QUINN	10/16	THOMAS A. QUINN, P.E. 1000 S. W. 10TH ST TAMPA, FL 33606	THOMAS A. QUINN, P.E. License Number 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization 4213
SUPERVISED BY: THOMAS A. QUINN, P.E.	10/16	INGOLFEN	INGOLFEN

CLIP NO.	69625	SHEET NO.	11
CLIP NO.	69601.408	SHEET NO.	11
CLIP NO.	69601.413	SHEET NO.	11

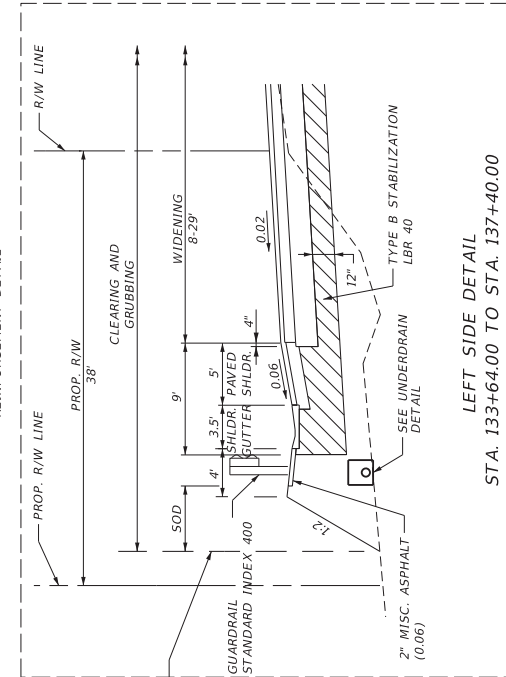


TYPICAL SECTION
 SYDNEY ROAD
 STA. 132+46.00 TO STA. 142+50.00

TRAFFIC DATA
 CURRENT YEAR = 2016 ADT = 5,100
 DESIGN YEAR = 2018 ADT = 5,300
 ESTIMATED DESIGN YEAR = 2038 ADT = 12,500
 K = 9.0 D = 58.2% T = 8% T₂₄ = 8%

SYDNEY ROAD
 DESIGN SPEED = 45 MPH (RURAL)
 POSTED SPEED = 40 MPH

SEE TEMP. TRAFFIC CONTROL
 TYPICAL SECTIONS (PRE-PHASE 1) FOR
 SUBSOIL EXCAVATION, BACKFILL,
 SURCHARGE LOADING AND GEGRID
 REINFORCEMENT DETAIL



LEFT SIDE DETAIL
 STA. 133+64.00 TO STA. 137+40.00

- MILLING
 MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2")
- RESURFACING
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
 AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")
- WIDENING
 OPTIONAL BASE GROUP 9 (CRUSHED CONCRETE - LBR 150)
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2 1/2")
 AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")
- SHOULDER PAVEMENT
 OPTIONAL BASE GROUP 1 (CRUSHED CONCRETE - LBR 150)
 AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")

NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY: D. RIGDEN	DATE: 10/16	NAME: D. RIGDEN	APPROVED BY: T. QUINN
DRAWN BY: T. QUINN	CHECKED BY: T. QUINN	SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16

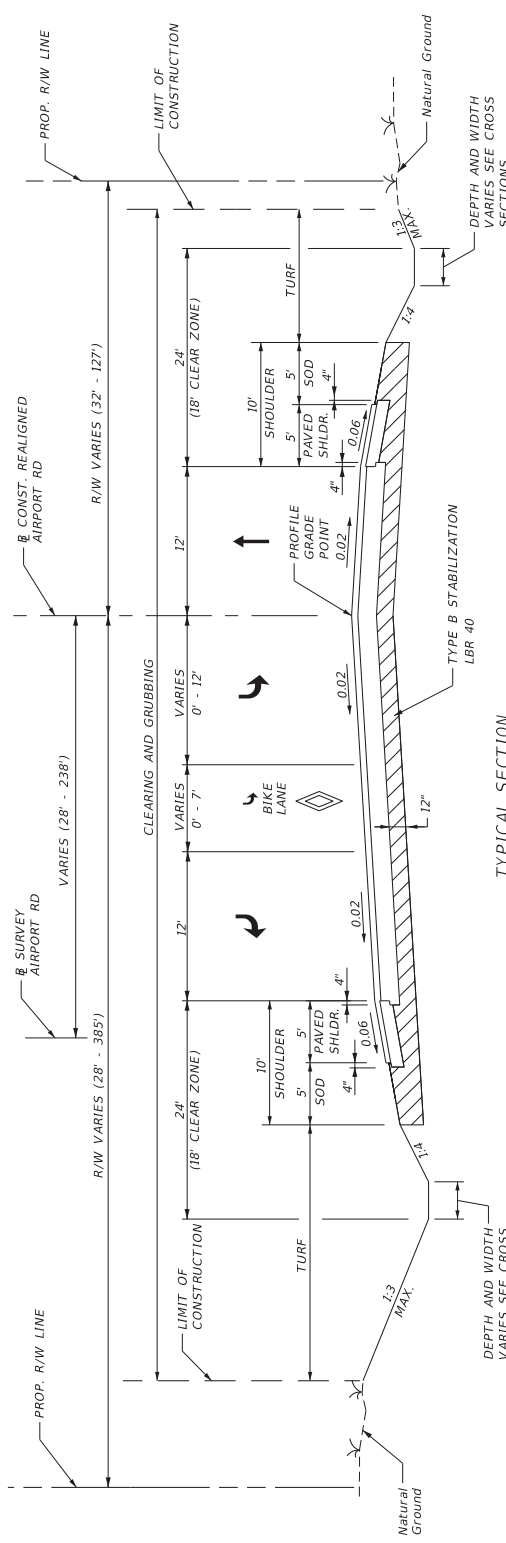
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETNOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	THOMAS A. QUINN, P.E. P.E. License Number: 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization: 4213
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TURKEY CREEK ROAD	SHEET NO. 12
TYPICAL SECTION (4)	C.P. NO. 69625 69601.408 69601.413



U.S. ARMY CORPS OF ENGINEERS
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SHOULDERS SHALL BE PLACED ACROSS TURNOUTS IN ACCORDANCE WITH FDOT INDEX 516



TYPICAL SECTION
REALIGNED AIRPORT ROAD
STA. 300+22.00 TO STA. 306+60.00

NEW CONSTRUCTION
OPTIONAL BASE GROUP 6
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")

SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1
AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1 1/2")

TRAFFIC DATA
CURRENT YEAR = 2016 ADT = 6,000
OPENING YEAR = 2018 ADT = 6,100
ESTIMATED DESIGN YEAR = 2038 ADT = 6,300
K = 9.0 D = 58.2% T = 8% T24 = 8%

AIRPORT ROAD
DESIGN SPEED = 40 MPH (RURAL)
POSTED SPEED = 40 MPH

NO.	DATE	REVISIONS DESCRIPTION	APPROVED

THOMAS A. QUINN, P.E.
P.E. License Number 45353
1900 Bay Center Drive, Suite 400
Tampa, FL 33606-3444
Certificate of Authorization 4213



CITY OF PLANT CITY
PUBLIC WORKS DIVISION
302 W. RETFOLDS ST
PLANT CITY, FLORIDA 33663
(813) 757-9288

DESIGNED BY: D. RUDOLF
DRAWN BY: D. RUDOLF
CHECKED BY: T. QUINN
SUPERVISED BY: THOMAS A. QUINN, P.E.
DATE: 10/16
10/16
10/16
APPROVED BY: [Signature]
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TYPICAL SECTION (5)
TURKEY CREEK ROAD

CLIP NO. 69625
69601.408
69601.413
SHEET NO. 13



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PERMIT APP NO: SAJ-2016-02608
DRAWING 6 OF 38
03/2017

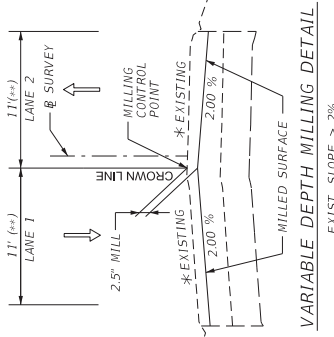
STA. 36+73.32 TO STA. 75+53.00
 STA. 76+40.00 TO STA. 94+80.00

* EXISTING PAVEMENT CROSS SLOPES

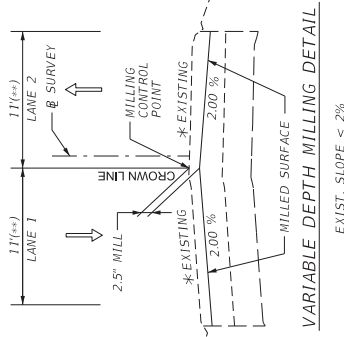
STA	LANE 1	LANE 2
37+00.00	0.0333	0.0179
38+00.00	0.0233	0.0333
39+00.00	0.0052	0.0188
40+00.00	0.0033	0.0161
41+00.00	0.0042	0.0142
42+00.00	0.0124	0.0170
43+00.00	0.0170	0.0170
44+00.00	0.0042	0.0152
45+00.00	0.0079	0.0133
46+00.00	0.0033	0.0124
47+00.00	0.0152	0.0433
48+00.00	0.0042	0.0406
49+00.00	0.0133	0.0624
50+00.00	0.0470	0.0497
51+00.00	0.0279	0.0542
52+00.00	0.0333	0.0552
53+00.00	0.0379	0.0352
54+00.00	0.0306	0.0361
55+00.00	0.0388	0.0279
56+00.00	0.0242	0.0133
57+00.00	0.0188	0.0124
58+00.00	0.0215	0.0242
59+00.00	0.0233	0.0324
60+00.00	0.0152	0.0288
61+00.00	0.0142	0.0215
62+00.00	0.0133	0.0197
63+00.00	0.0206	0.0188
64+00.00	0.0170	0.0370
65+00.00	0.0242	0.0179
66+00.00	0.0206	0.0288
67+00.00	0.0252	0.0279
68+00.00	0.0197	0.0415
69+00.00	0.0188	0.0242
70+00.00	0.0115	0.0324
71+00.00	0.0106	0.0170
72+00.00	0.0070	0.0133
73+00.00	0.0342	0.0197
74+00.00	0.0324	-0.0121
75+00.00	0.0224	0.0133
75+53.00	SKEWED	SKEWED
EXIST. CSX RR TRACKS		

* EXISTING PAVEMENT CROSS SLOPES

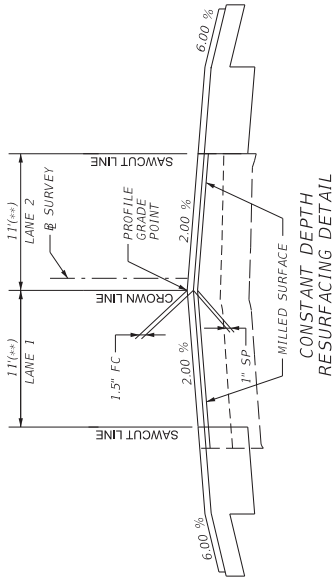
STA	LANE 1	LANE 2
76+40.00	SKEWED	SKEWED
77+00.00	0.0042	0.0052
78+00.00	0.0215	0.0061
79+00.00	0.0315	0.0115
80+00.00	0.0270	0.0161
81+00.00	0.0261	0.0179
82+00.00	0.0252	0.0079
83+00.00	0.0297	0.0097
84+00.00	0.0115	0.0152
85+00.00	0.0215	0.0133
86+00.00	0.0288	0.0115
87+00.00	0.0224	0.0188
88+00.00	0.0097	0.0288
89+00.00	0.0133	0.0352
90+00.00	0.0215	0.0361
91+00.00	0.0124	0.0261
92+00.00	0.0152	0.0388
93+00.00	0.0306	0.0188
94+00.00	0.0252	0.0088
94+80.00	0.0215	0.0142



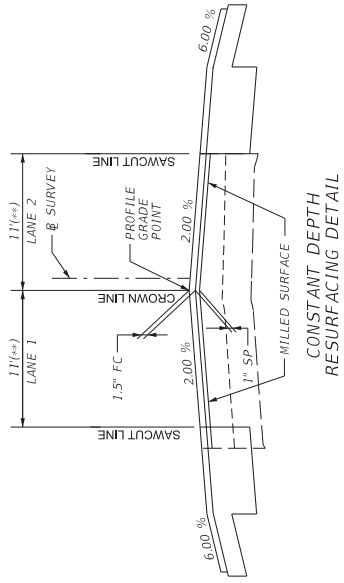
VARIABLE DEPTH MILLING DETAIL
 EXIST. SLOPE > 2%



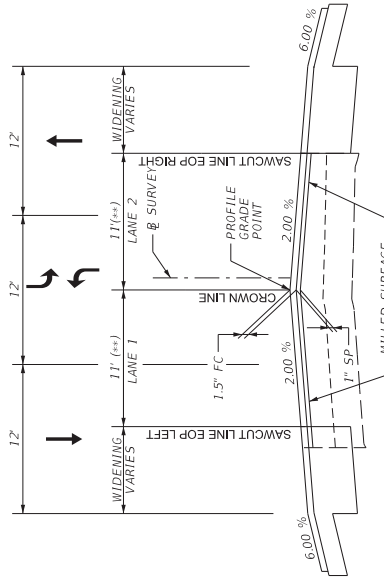
VARIABLE DEPTH MILLING DETAIL
 EXIST. SLOPE < 2%



CONSTANT DEPTH RESURFACING DETAIL
 EXIST. SLOPE > 2%



CONSTANT DEPTH RESURFACING DETAIL
 EXIST. SLOPE < 2%



TYPICAL SECTION DETAILS (1)
 CONSTANT DEPTH RESURFACING DETAIL

(*) SEE TABLE FOR EXISTING CROSS SLOPES
 (**) 12' LANES SOUTH OF STA 42+50.00

TURKEY CREEK ROAD
 CROSS SLOPE CORRECTION

DESIGNED BY: D. NGDIEN	DATE: 10/16	APPROVED BY: T. QUINN	TURKEY CREEK ROAD	CLIP NO. 69625	SHEET NO. 14
CHECKED BY: T. QUINN	DATE: 10/16	DESIGNED BY: T. QUINN		69601.408	
SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16	CHECKED BY: T. QUINN		69601.413	
CITY OF PLANT CITY PUBLIC WORKS DIVISION 392 W. RETHELDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	THOMAS A. QUINN, P.E. P.E. License Number 45353 5429 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization 4213	THOMAS A. QUINN, P.E. DATE: 10/16			



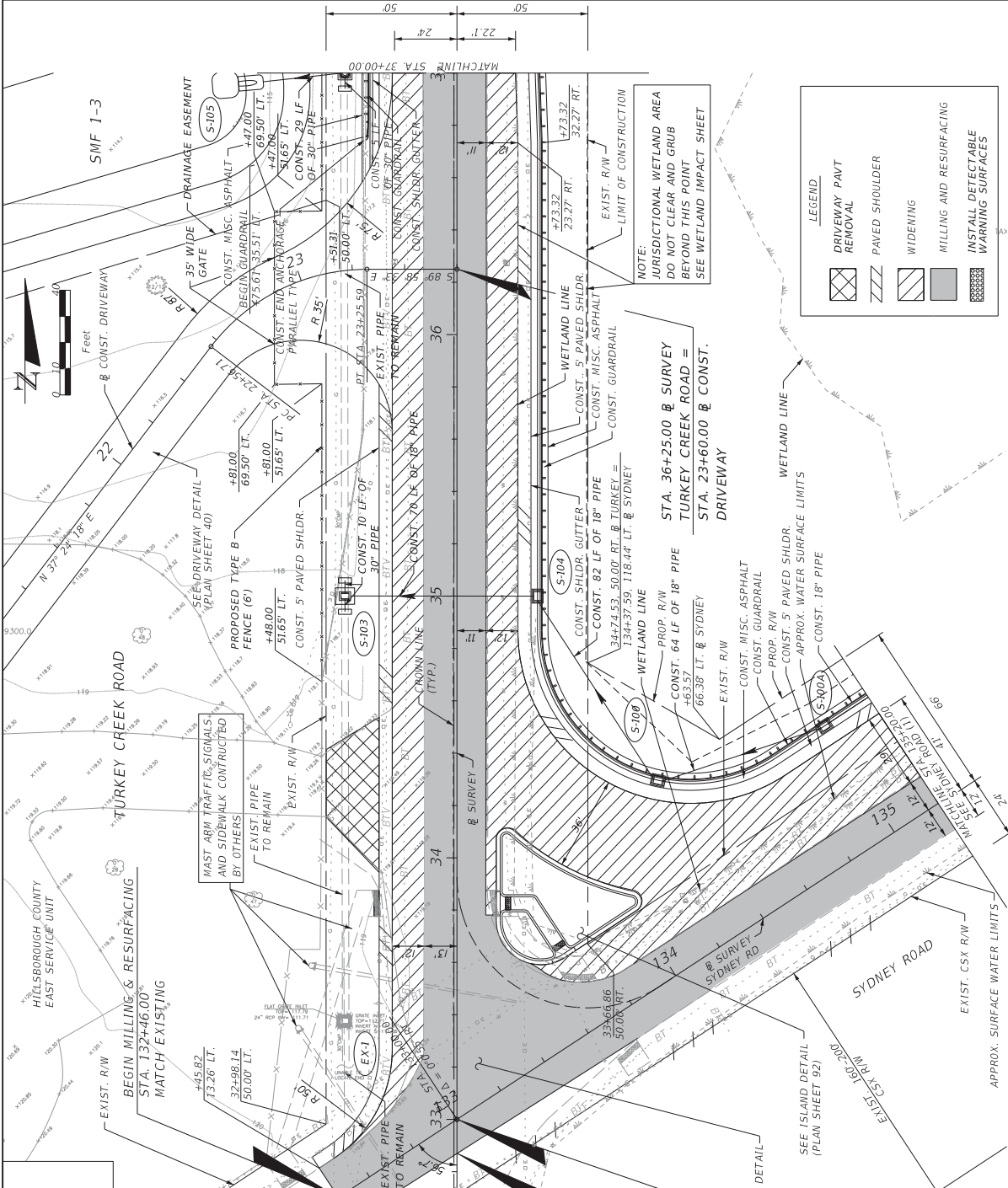
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 PERMIT APP NO: SAJ-2016-02608
 DRAWING 7 OF 38

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NOTE TO REVIEWER:
 1. EXISTING MAST ARMS TO REMAIN. MAST ARMS WERE INSTALLED DURING CONSTRUCTION OF INTERIM PLANS (HILLSBOROUGH COUNTY PROJECT CIP 69601-413)
 2. CONCRETE SIDEWALK, GRAVITY WALL AND HANDRAIL INSTALLED WITH INTERIM PLANS. CONFLICTING WITH THE PROPOSED DESIGN. SHALL BE REMOVED UNDER PAY ITEM 110-1-1.



LEGEND

- DRIVEWAY PAVT REMOVAL
- PAVED SHOULDER
- WIDENING
- MILLING AND RESURFACING
- INSTALL DETECTABLE WARNING SURFACES

NOTE:
 JURISDICTIONAL WETLAND AREA DO NOT CLEAR AND GRUB BEYOND THIS POINT SEE WETLAND IMPACT SHEET

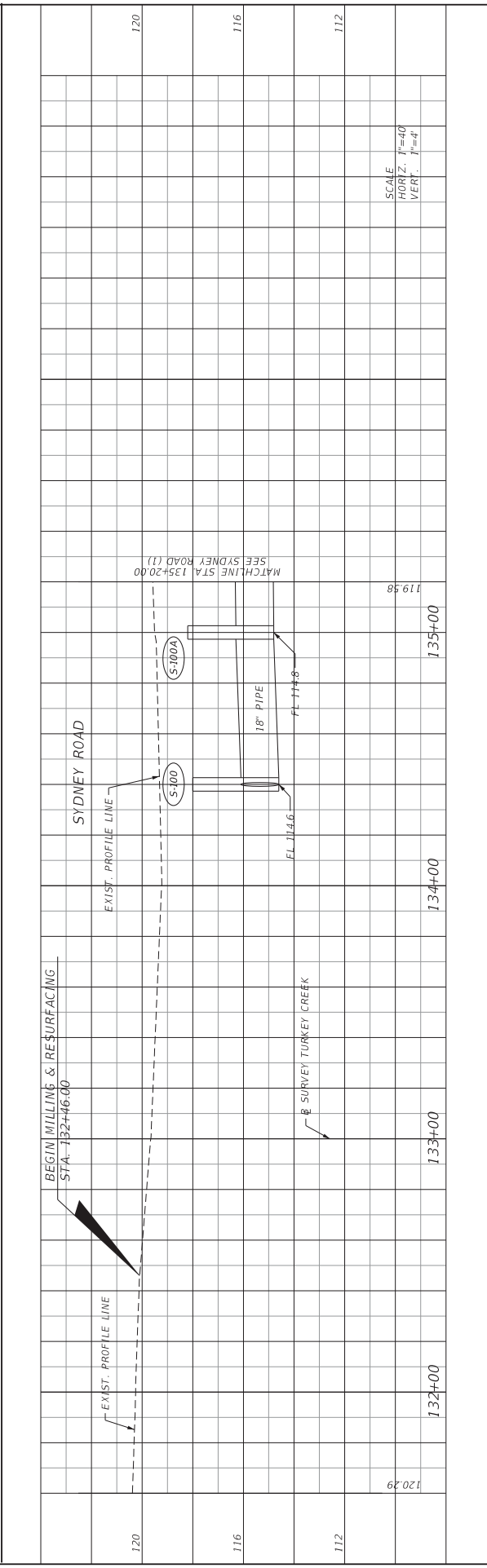
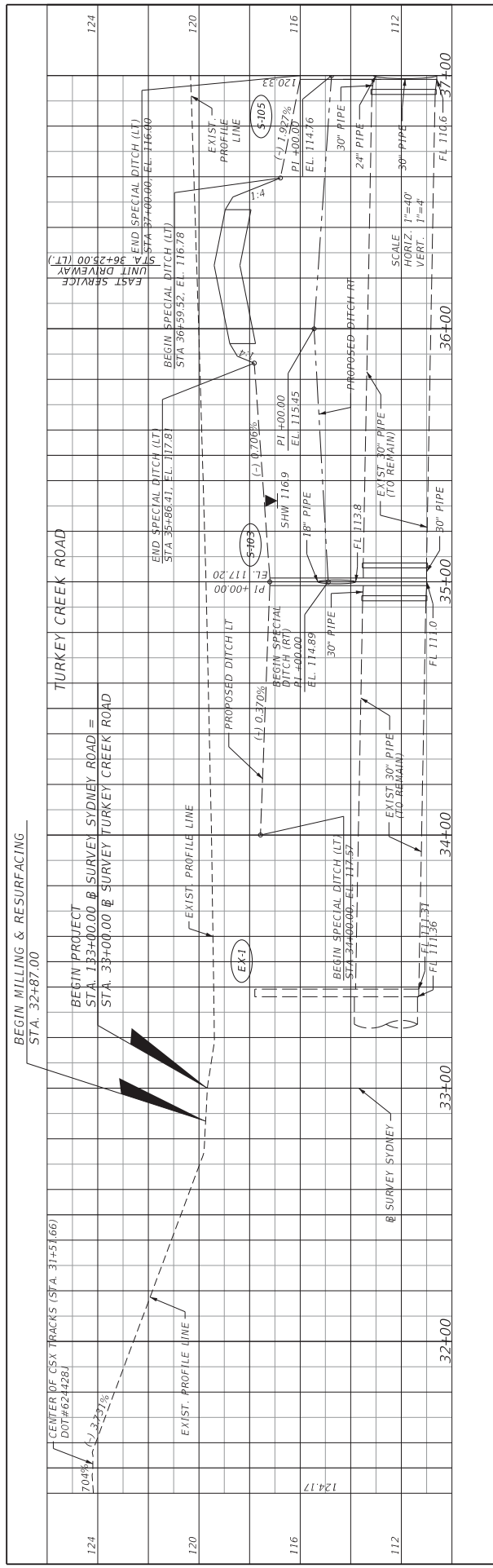
STA. 36+25.00 @ SURVEY TURKEY CREEK ROAD = STA. 23+60.00 @ CONST. DRIVEWAY

NO.	DATE	REVISIONS DESCRIPTION	APPROVED



		THOMAS A. QUINN, P.E. P.E. License Number 65563 5428 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization 4213	
		CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETWELDS ST PLANT CITY, FLORIDA 33563 (813) 757-9288	
DESIGNED BY:	D. RUDFEN	DATE:	10/16
DRAWN BY:	T. QUINN	APPROVED BY:	THOMAS A. QUINN, P.E.
CHECKED BY:	T. QUINN	DATE:	10/16
SUPERVISED BY:	THOMAS A. QUINN, P.E.	DATE:	10/16
TURKEY CREEK ROAD ROADWAY PLAN TURKEY CREEK ROAD (1)		CIP NO.	69625
1725/2017 3183401.RW		69601-408	20
69601-413		69601-413	

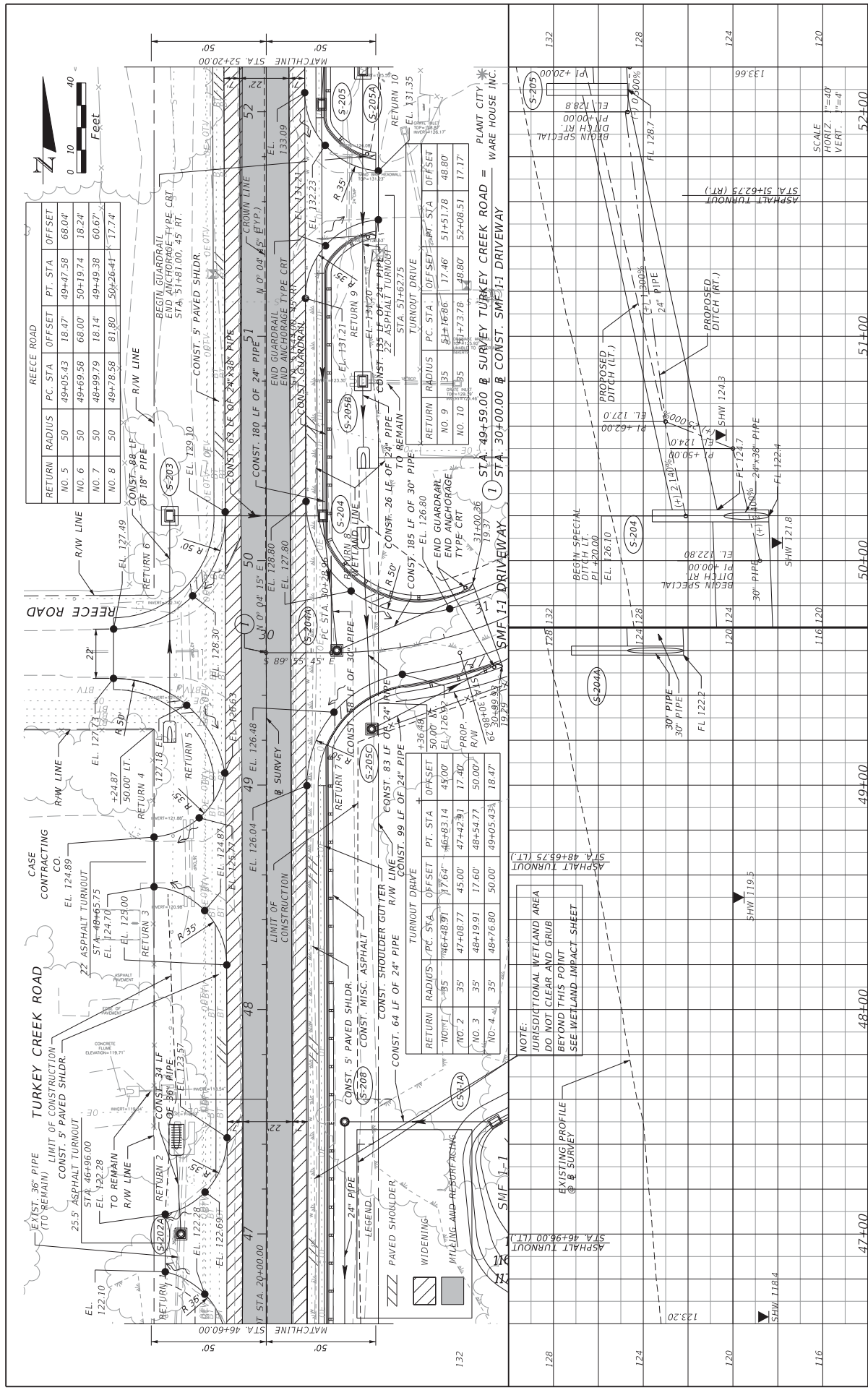


U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 8 OF 38
 03/2017



NO.	DATE	REVISIONS	DESCRIPTION	APPROVED

		THOMAS A. QUINN, P.E. P.E. License Number 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization 4213				CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. REYNOLDS ST PLANT CITY, FLORIDA 33563 (813) 757-9288		DESIGNED BY: D. RIGDEN DRAWN BY: T. QUINN CHECKED BY: T. QUINN SUPERVISED BY: THOMAS A. QUINN, P.E.		NAME: D. RIGDEN DATE: 10/16 APPROVED BY: T. QUINN DATE: 10/16		APPROVED BY: DINGFEN DATE: 10/16		TURKEY CREEK ROAD ROADWAY PROFILE TURKEY CREEK ROAD (I) STA. 32+87.00 - STA. 37+00.00		CLIP NO.: 69625 SHEET NO.: 21	
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RETURN	RADIUS	PC STA	OFFSET	PT. STA	OFFSET
NO. 5	50	49+05.43	18.47'	49+47.58	68.04'
NO. 6	50	49+69.58	68.00'	50+19.74	18.24'
NO. 7	50	48+99.79	18.14'	49+49.38	60.67'
NO. 8	50	49+78.58	81.80'	50+26.41'	17.74'

RETURN	RADIUS	PC STA	OFFSET	PT. STA	OFFSET
NO. 9	35	51+16.86	17.46'	51+51.78	48.80'
NO. 10	35	51+73.78	48.80'	52+08.51	17.17'

RETURN	RADIUS	PC STA	OFFSET	PT. STA	OFFSET
NO. 1	35	46+48.91	17.64'	46+83.14	45.00'
NO. 2	35	47+08.77	45.00'	47+42.31	17.40'
NO. 3	35	48+19.91	17.60'	48+54.71	50.00'
NO. 4	35	48+76.80	50.00'	49+05.43	18.47'

NOTE: JURISDICTIONAL WETLAND AREA DO NOT CLEAR AND GRUB BEYOND THIS POINT SEE WETLAND IMPACT SHEET

NO.	DATE	REVISIONS	DESCRIPTION	APPROVED

DESIGNED BY: D. KOFFEN
 DRAWN BY: D. KOFFEN
 CHECKED BY: T. QUINN
 SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16
 10/16
 10/16

NAME: D. KOFFEN
 T. QUINN
 THOMAS A. QUINN, P.E.

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETFOLDS ST
 PLANT CITY, FLORIDA 33613
 (813) 257-9288

THOMAS A. QUINN, P.E.
 P.E. License Number 45353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33608-3444
 Certificate of Authorization 4213

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

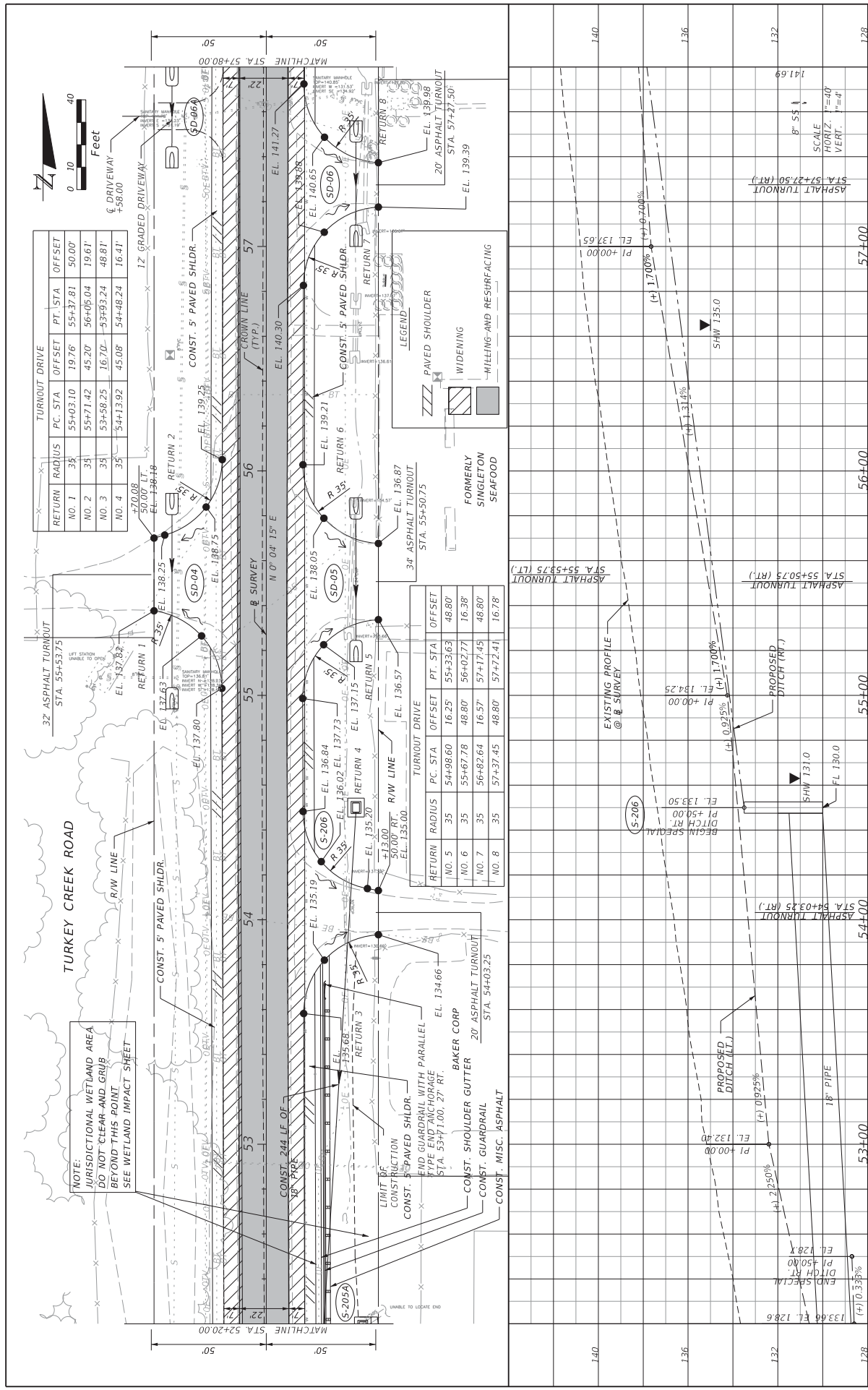
TURKEY CREEK ROAD
 PLAN-PROFILE
 TURKEY CREEK ROAD (4)

CLIP NO.: 69625
 69601.408
 69601.413

SHEET NO.: 24



U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 12 OF 38



RETURN NO.	RADIUS	PC STA	OFFSET	PT STA	OFFSET
NO. 1	35	55+03.10	19.76'	55+37.81	50.00'
NO. 2	35	55+71.42	45.20'	56+06.04	19.61'
NO. 3	35	53+58.25	16.70'	53+93.24	48.81'
NO. 4	35	54+13.92	45.08'	54+48.24	16.41'

TURNOUT DRIVE	PC STA	OFFSET	PT STA	OFFSET
NO. 5	54+98.60	16.25'	55+33.63	48.80'
NO. 6	55+67.78	48.80'	56+02.71	16.38'
NO. 7	56+62.64	16.57'	57+17.45	48.80'
NO. 8	57+37.45	48.80'	57+72.41	16.78'

NOTE:
 JURISDICTIONAL WETLAND AREA
 DO NOT CLEAR AND GRUB
 BEYOND THIS POINT.
 SEE WETLAND IMPACT SHEET

NO.	DATE	APPROVED	DESCRIPTION

THOMAS A. QUINN, P.E.
 P.E. License Number 45353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

HR

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETNOLDS ST
 PLANT CITY, FLORIDA 33663
 (813) 757-9288

DESIGNED BY:	D. RIGBYEN	DATE:	10/16
DRAWN BY:	D. RIGBYEN	APPROVED BY:	T. QUINN
CHECKED BY:	T. QUINN	DATE:	10/16
SUPERVISED BY:	THOMAS A. QUINN, P.E.	DATE:	10/16

TURKEY CREEK ROAD
PLAN-PROFILE
 TURKEY CREEK ROAD (5)

SHEET NO.	69625	CLIP NO.	69601.408
NO.	25	NO.	69601.413



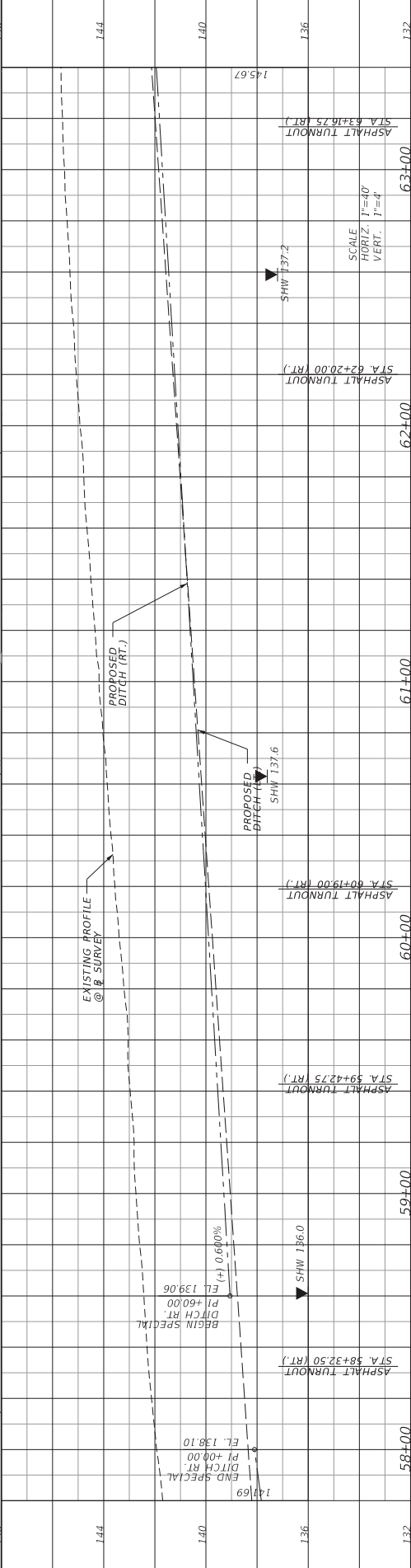
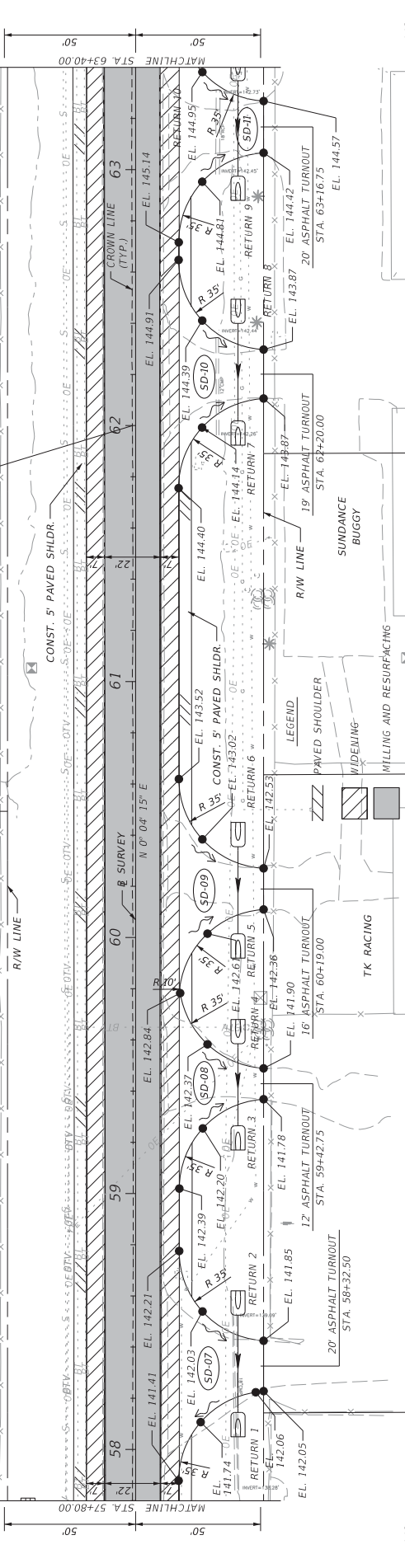
U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 13 OF 38



TURKEY CREEK ROAD

TURNOUT DRIVE			
RETURN	RADIUS	P.C. STA	OFFSET
NO. 6	35	60+27.14	48.80
NO. 7	35	61+75.57	16.78
NO. 8	35	62+29.81	48.80
NO. 9	35	62+71.65	16.84
NO. 10	35	63+26.89	48.80

TURNOUT DRIVE			
RETURN	RADIUS	P.C. STA	OFFSET
NO. 1	35	57+87.78	16.82
NO. 2	35	58+42.62	48.80
NO. 3	35	59+01.97	17.03
NO. 4	35	59+49.04	48.80
NO. 5	35	59+81.49	17.43



NO.	DATE	REVISIONS	DESCRIPTION	APPROVED

FOR

THOMAS A. QUINN, P.E.
 P.E. License Number 45353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETNOLDS ST
 PLANT CITY, FLORIDA 33563
 (813) 257-9288

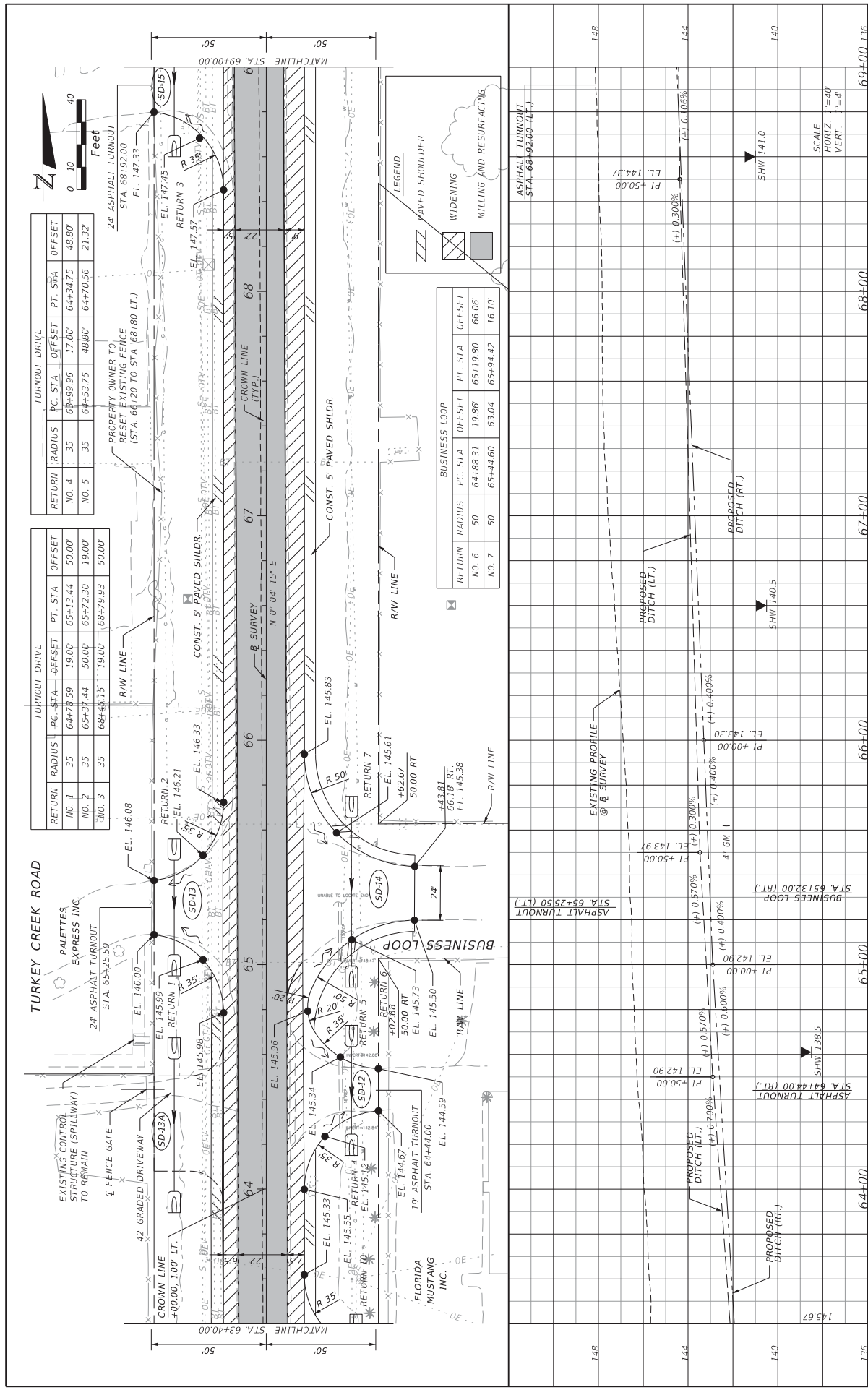
DESIGNED BY:	NAME	DATE	APPROVED BY:
D. QUINN <td>D. QUINN <td>10/16</td> <td>D. QUINN</td> </td>	D. QUINN <td>10/16</td> <td>D. QUINN</td>	10/16	D. QUINN
CHECKED BY: <td>T. QUINN <td>10/16</td> <td>THOMAS A. QUINN, P.E.</td> </td>	T. QUINN <td>10/16</td> <td>THOMAS A. QUINN, P.E.</td>	10/16	THOMAS A. QUINN, P.E.
SUPERVISED BY: <td>THOMAS A. QUINN, P.E.</td> <td>10/16</td> <td>THOMAS A. QUINN, P.E.</td>	THOMAS A. QUINN, P.E.	10/16	THOMAS A. QUINN, P.E.

TURKEY CREEK ROAD
PLAN PROFILE
 TURKEY CREEK ROAD (6)

SHEET NO.	CUT NO.
26	69601.408
	69601.413



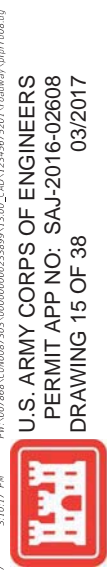
U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 14 OF 38



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

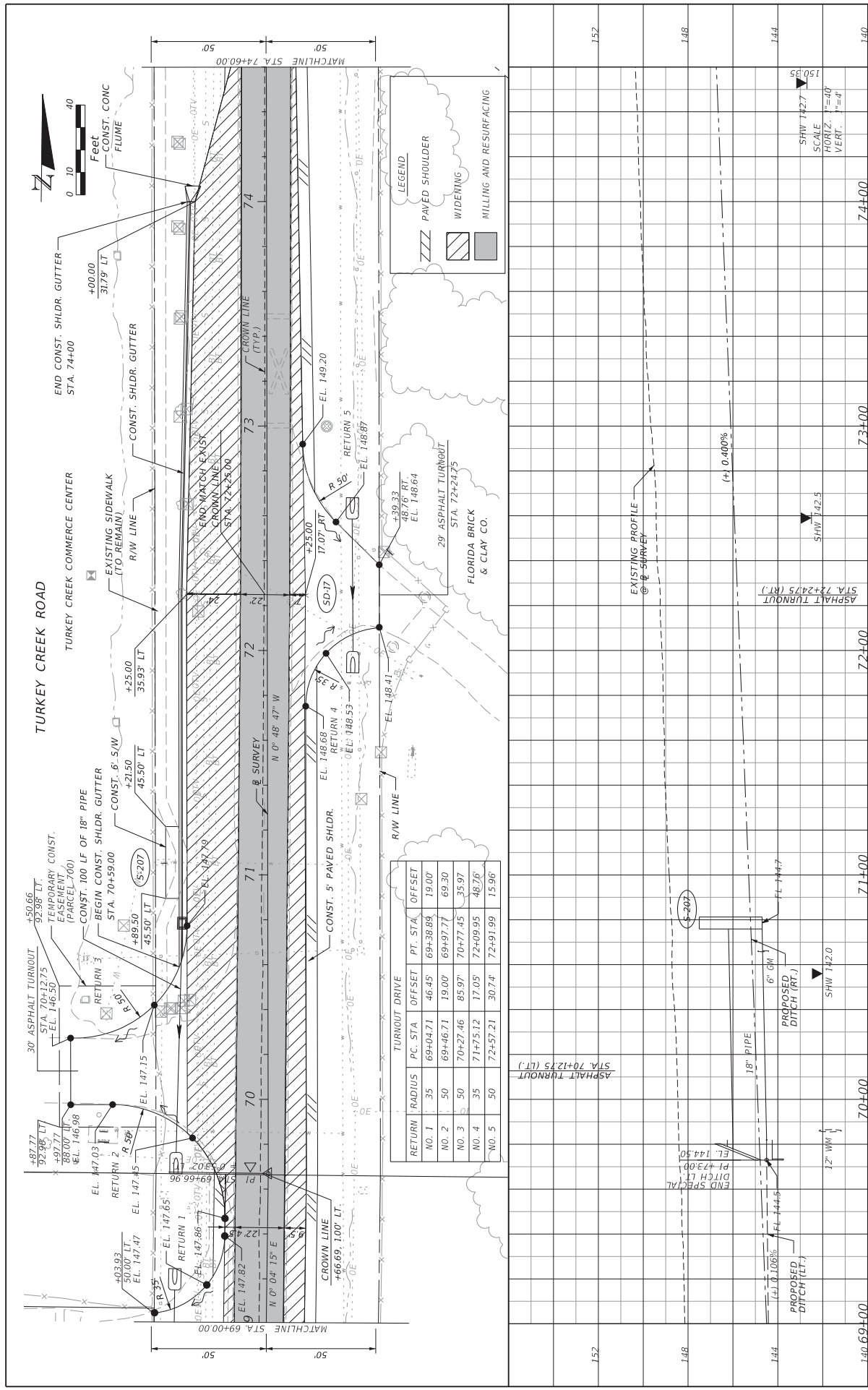
DESIGNED BY:	D. KODDEN	DATE:	10/16
DRAWN BY:	T. QUINN	CITY OF PLANT CITY:	PUBLIC WORKS DIVISION
CHECKED BY:	T. QUINN	392 W. RETFOLDS ST	PLANT CITY, FLORIDA 33563
SUPERVISED BY:	THOMAS A. QUINN, P.E.	(813) 257-9288	Certificate of Authorization 4213

APPROVED:	THOMAS A. QUINN, P.E.	DATE:	10/16
PROJECT:	TURKEY CREEK ROAD	SHEET NO.:	27
DESCRIPTION:	PLAN PROFILE	PROJECT NO.:	69601.408
DATE:	10/16	DRAWING NO.:	69601.413



U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 15 OF 38

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NO.	DATE	REVISIONS DESCRIPTION	APPROVED

HR

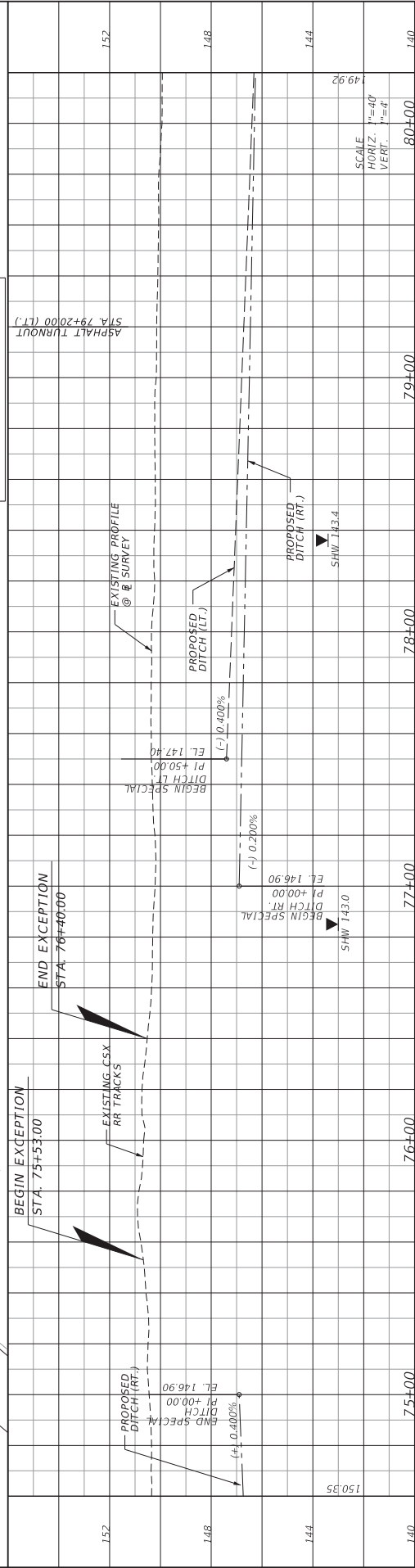
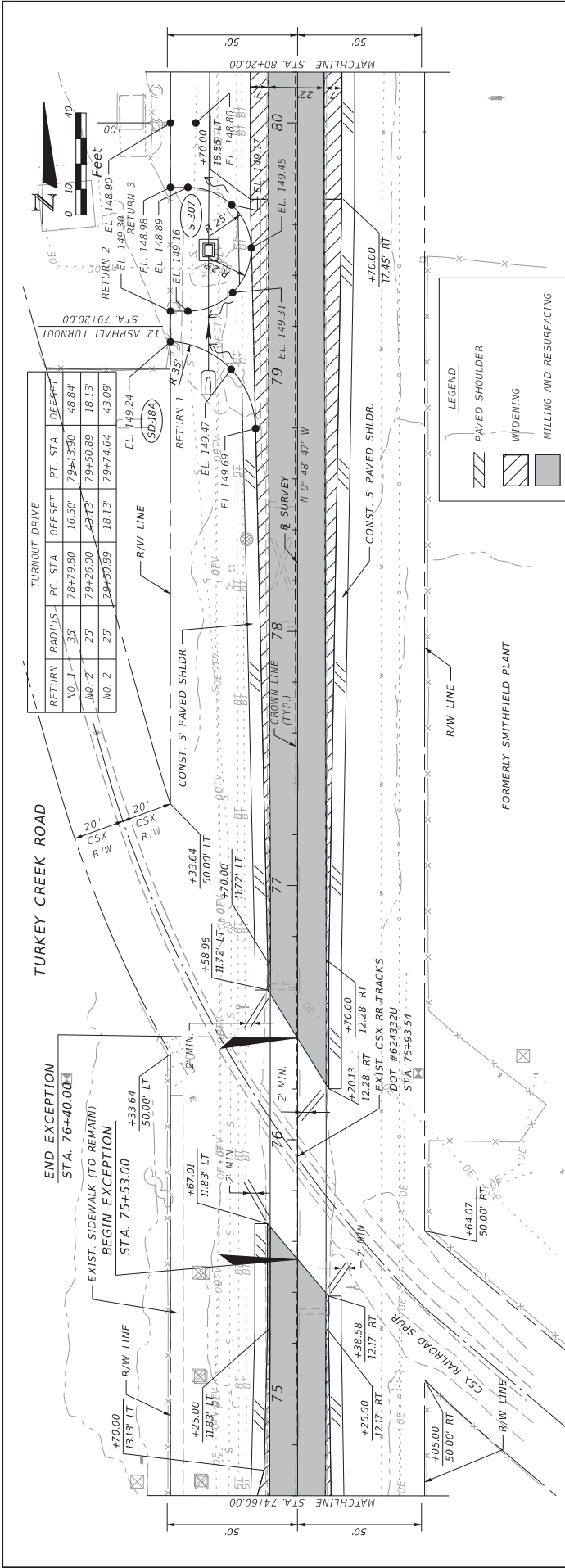
THOMAS A. QUINN, P.E.
 P.E. License Number 45353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETFOLDS ST
 PLANT CITY, FLORIDA 33663
 (813) 757-9288

DESIGNED BY: D. RIGDEN
 DRAWN BY: T. QUINN
 CHECKED BY: T. QUINN
 SUPERVISED BY: THOMAS A. QUINN, P.E.

TURKEY CREEK ROAD
PLAN PROFILE
TURKEY CREEK ROAD (8)

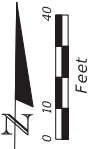
SHEET NO. 28
 CLIP NO. 69625
 69601.408
 69601.413



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY: D. NGDIEN	DATE: 10/16	NAME: D. NGDIEN	APPROVED BY:
CHECKED BY: T. QUINN	DATE: 10/16	THOMAS A. QUINN, P.E.	
SUPERVISED BY: THOMAS A. QUINN, P.E.			

CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. FIELDS ST PLANT CITY, FLORIDA 33613 (813) 257-9288	TURKEY CREEK ROAD PLAN-PROFILE TURKEY CREEK ROAD (9)	SHEET NO.: 29
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TURKEY CREEK ROAD

TURNOUT DRIVE	PC. STA	OFFSET	PT. STA	OFFSET
TURNOUT DRIVE	81+07.98	50.00'	81+42.88	18.39'

LYKES ROAD

RETURN	RADIUS	PC. STA	OFFSET	PT. STA	OFFSET
NO. 1	35'	81+07.98	50.00'	81+42.88	18.39'
NO. 2	50'	80+39.49	17.51'	80+89.21	72.35'
NO. 3	50'	81+18.67	62.80'	81+68.49	17.64'

PLANT CITY AIRPORT

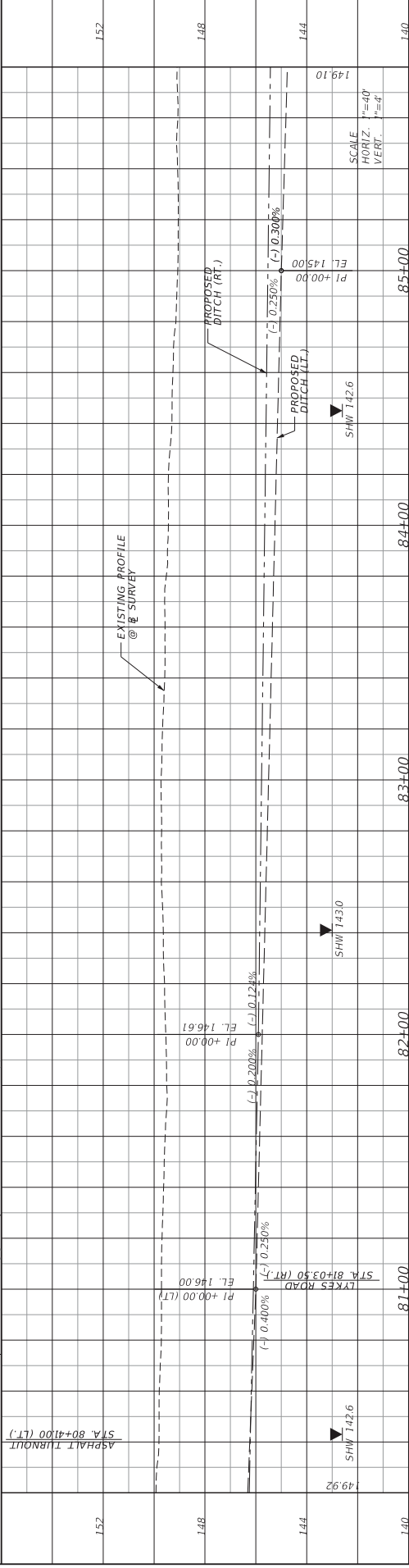
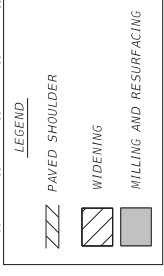
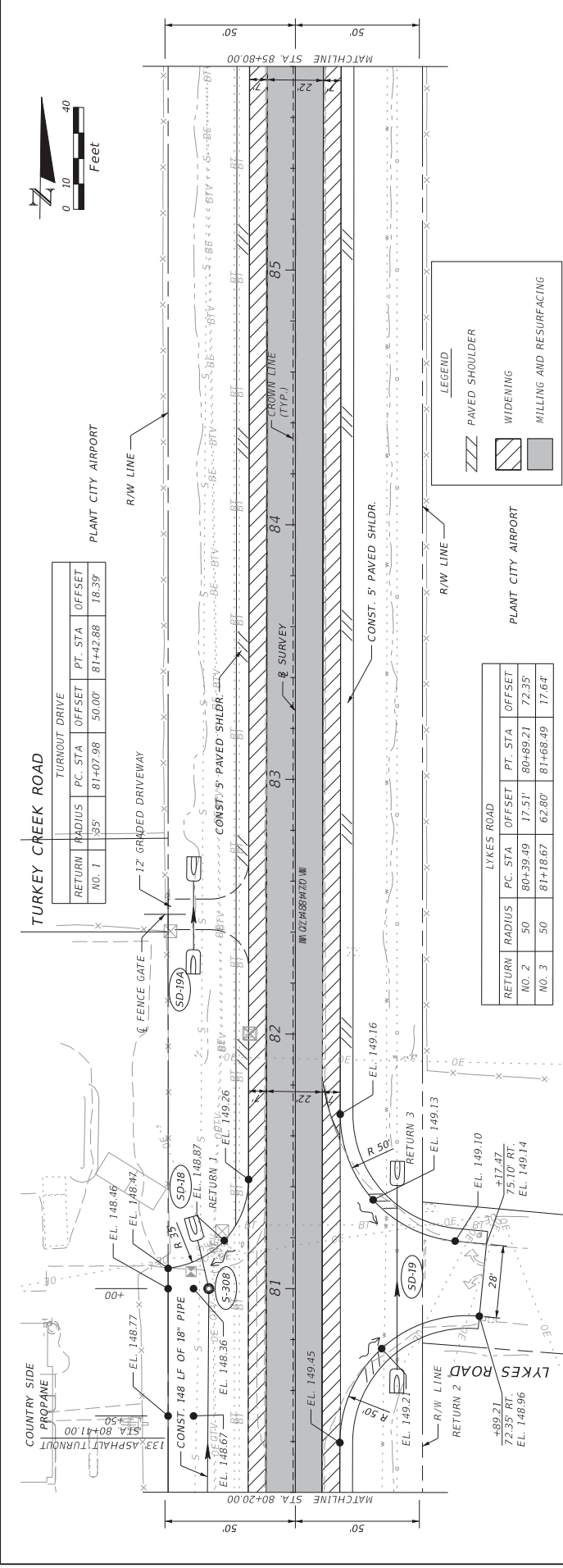
TURNOUT DRIVE	PC. STA	OFFSET	PT. STA	OFFSET
TURNOUT DRIVE	81+07.98	50.00'	81+42.88	18.39'

LYKES ROAD

RETURN	RADIUS	PC. STA	OFFSET	PT. STA	OFFSET
NO. 2	50'	80+39.49	17.51'	80+89.21	72.35'
NO. 3	50'	81+18.67	62.80'	81+68.49	17.64'

PLANT CITY AIRPORT

TURNOUT DRIVE	PC. STA	OFFSET	PT. STA	OFFSET
TURNOUT DRIVE	81+07.98	50.00'	81+42.88	18.39'



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

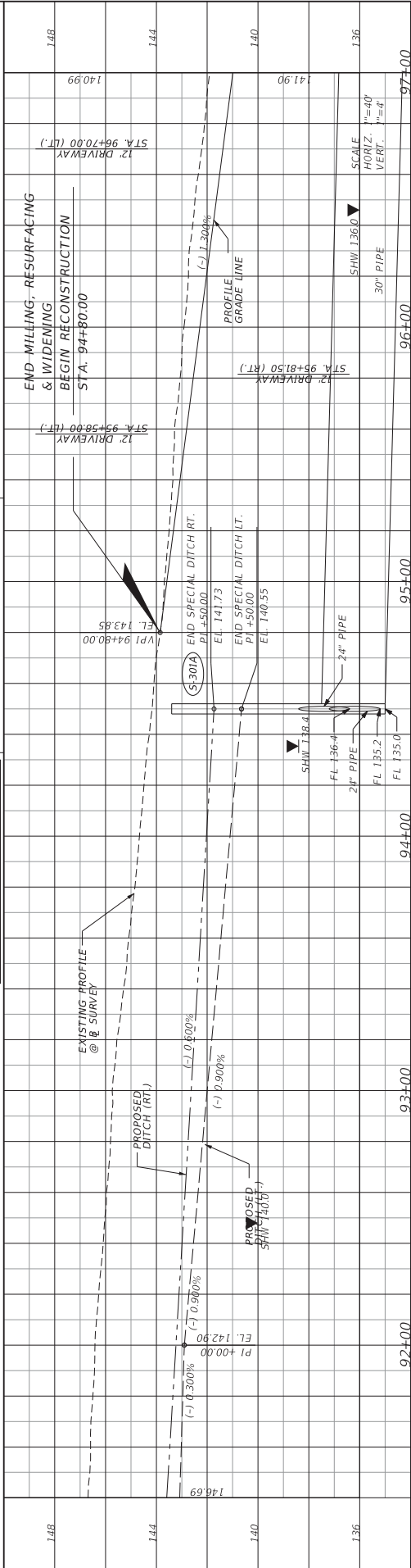
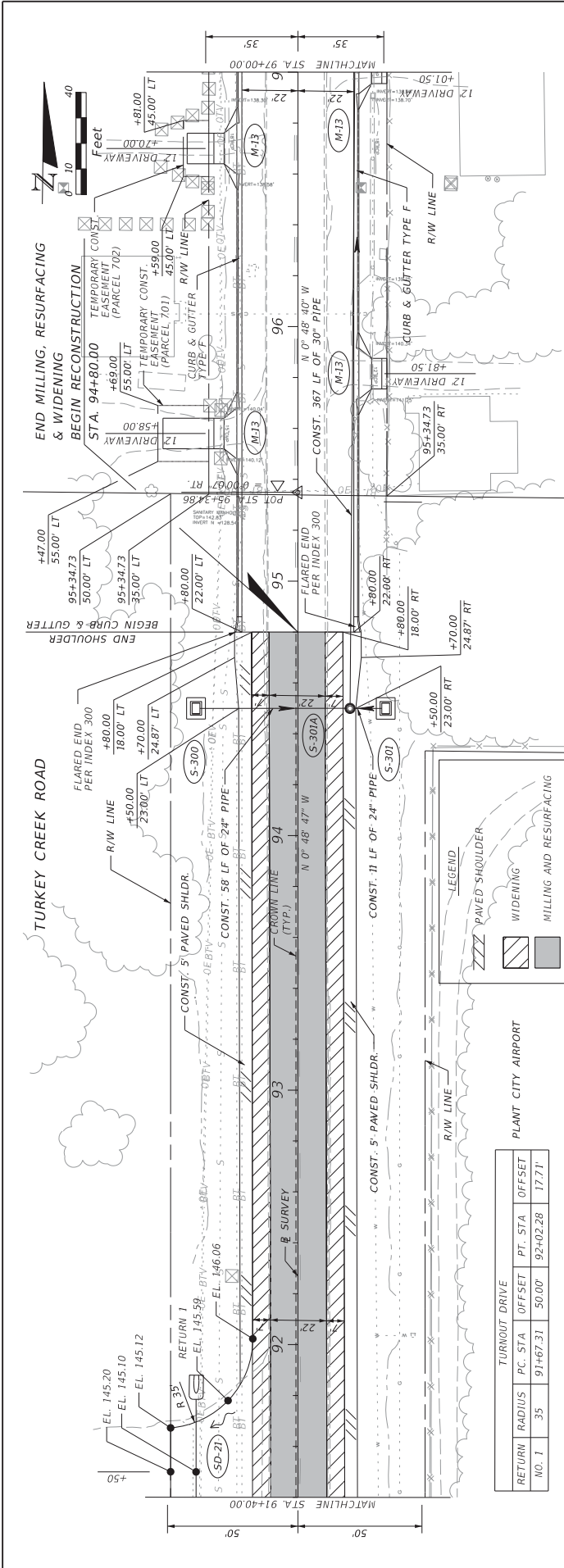
DESIGNED BY: D. RIGDEN	DATE: 10/16	APPROVED BY: [Signature]
DRAWN BY: T. QUINN	DATE: 10/16	
CHECKED BY: T. QUINN	DATE: 10/16	
SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16	

CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	TURKEY CREEK ROAD PLAN-PROFILE TURKEY CREEK ROAD (10)	SHEET NO. 30
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U.S. ARMY CORPS OF ENGINEERS
PERMIT APP NO: SAJ-2016-02608
DRAWING 18 OF 38

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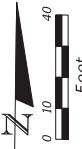


NO.	DATE	REVISIONS DESCRIPTION	APPROVED	DESIGNED BY: D. NGUYEN	DATE: 10/16	NAME	APPROVED BY: T. QUINN	DATE: 10/16	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33567 (813) 757-9288	TURKEY CREEK ROAD PLAN-PROFILE	CITY NO. 68625	SHEET NO. 32
				CHECKED BY: T. QUINN		THOMAS A. QUINN, P.E.				TURKEY CREEK ROAD (12)	69601.408	
				SUPERVISED BY: THOMAS A. QUINN, P.E.		THOMAS A. QUINN, P.E.					69601.413	

THOMAS A. QUINN, P.E.
P.E. License Number 45353
5428 Bay Center Drive, Suite 400
Tampa, FL 33608-3444
Certificate of Authorization 4213

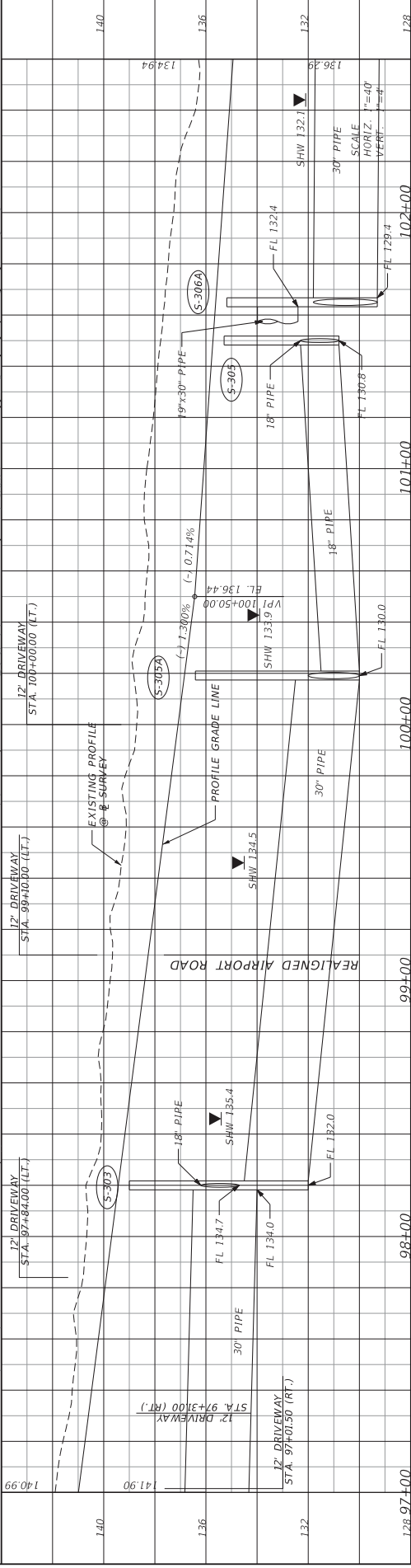
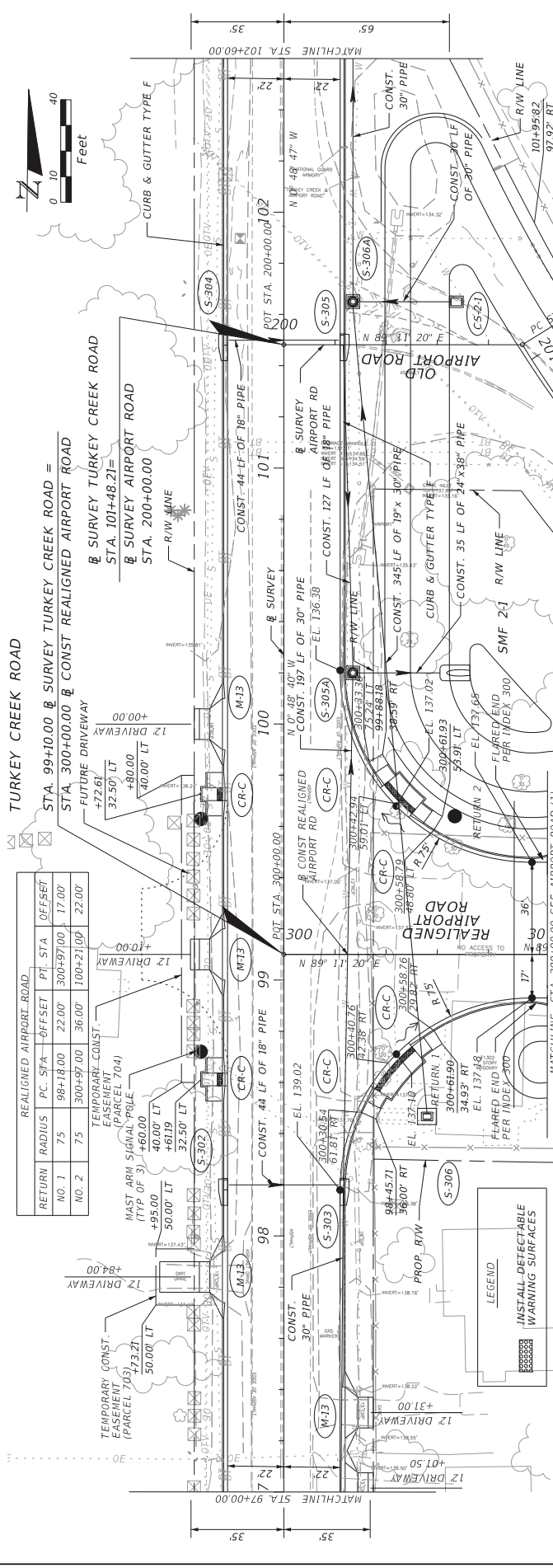
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U.S. ARMY CORPS OF ENGINEERS
PERMIT APP NO: SAJ-2016-02608
DRAWING 20 OF 38



TURKEY CREEK ROAD

RETURN	RADIUS	P.C. STA.	OFFSET	P.T. STA.	OFFSET
NO. 1	75	98+18.00	22.00'	300+97.00	17.00'
NO. 2	75	300+97.00	36.00'	100+21.00	22.00'

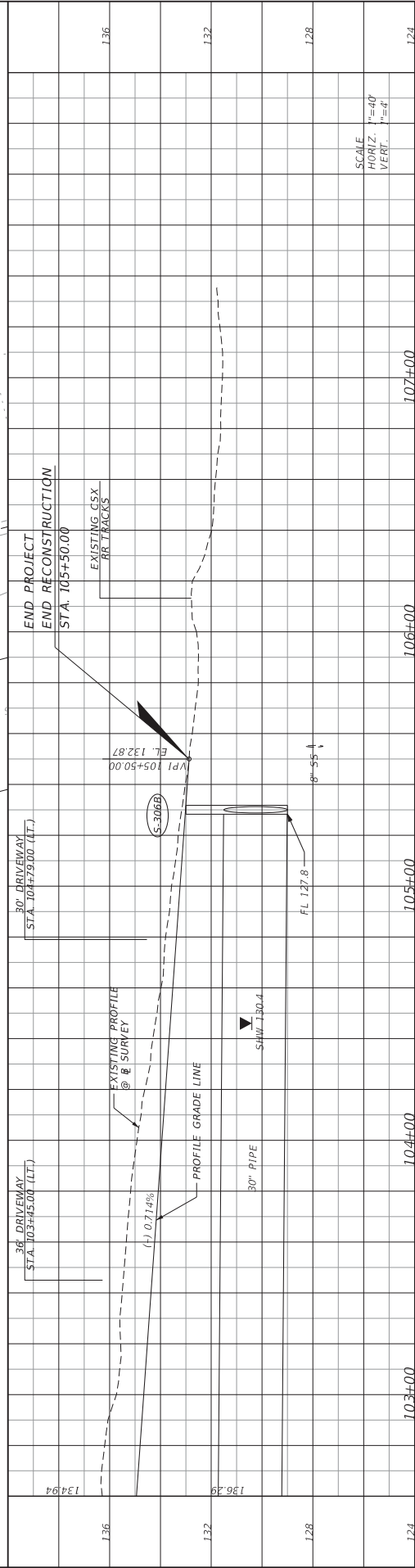
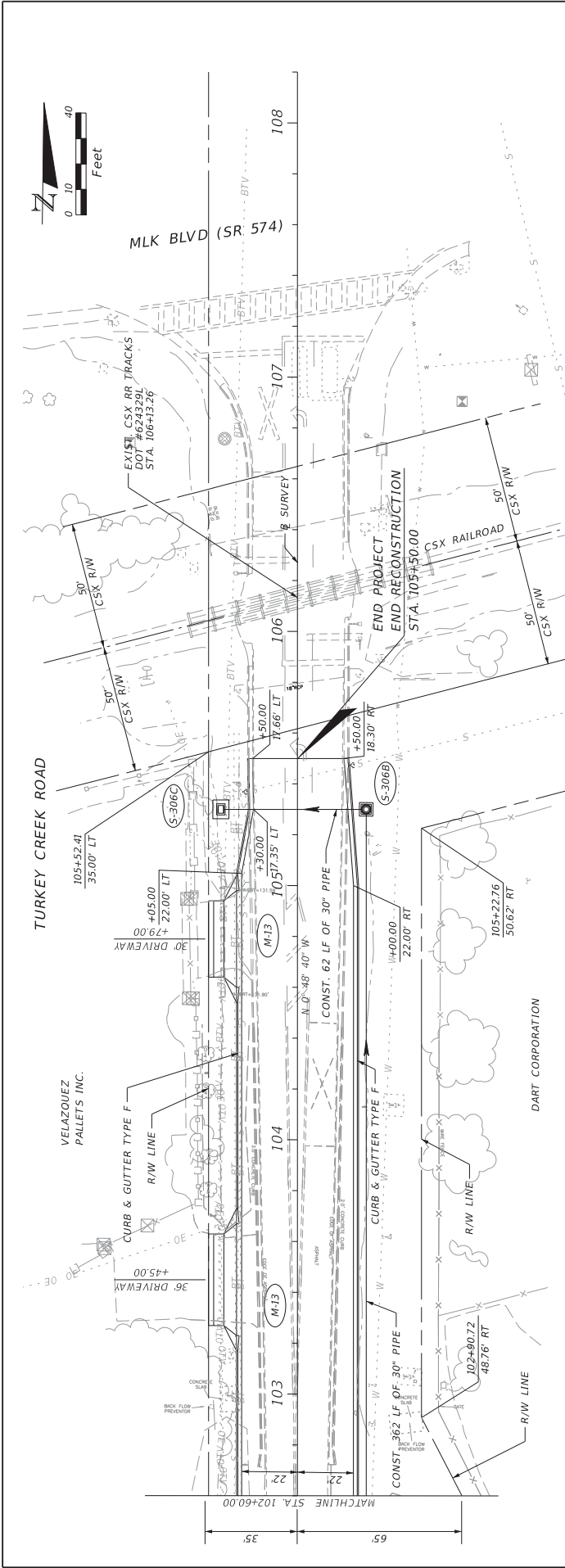


NO.	DATE	REVISIONS	APPROVED		SHEET NO.
					33
THOMAS A. QUINN, P.E. P.E. License Number 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213					
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. REYNOLDS ST PLANT CITY, FLORIDA 33563 (813) 257-9288			TURKEY CREEK ROAD PLAN PROFILE TURKEY CREEK ROAD (13)		
DESIGNED BY: D. KOFFEN DRAWN BY: D. KOFFEN CHECKED BY: T. QUINN SUPERVISED BY: THOMAS A. QUINN, P.E.			DATE APPROVED BY: 10/16 DRAWN BY: 10/16 CHECKED BY: 10/16 SUPERVISED BY: 10/16		
NAME: D. KOFFEN DATE: 10/16			CITY: TURKEY CREEK ROAD PROJECT NO.: 69601.408 SHEET NO.: 33		



U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 21 OF 38

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NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY: D. NGDIEN	DATE: 10/16	NAME: D. NGDIEN	APPROVED BY:
DRAWN BY: T. QUINN	DATE: 10/16	CHECKED BY: T. QUINN	DATE: 10/16
SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16	THOMAS A. QUINN, P.E.	DATE: 10/16

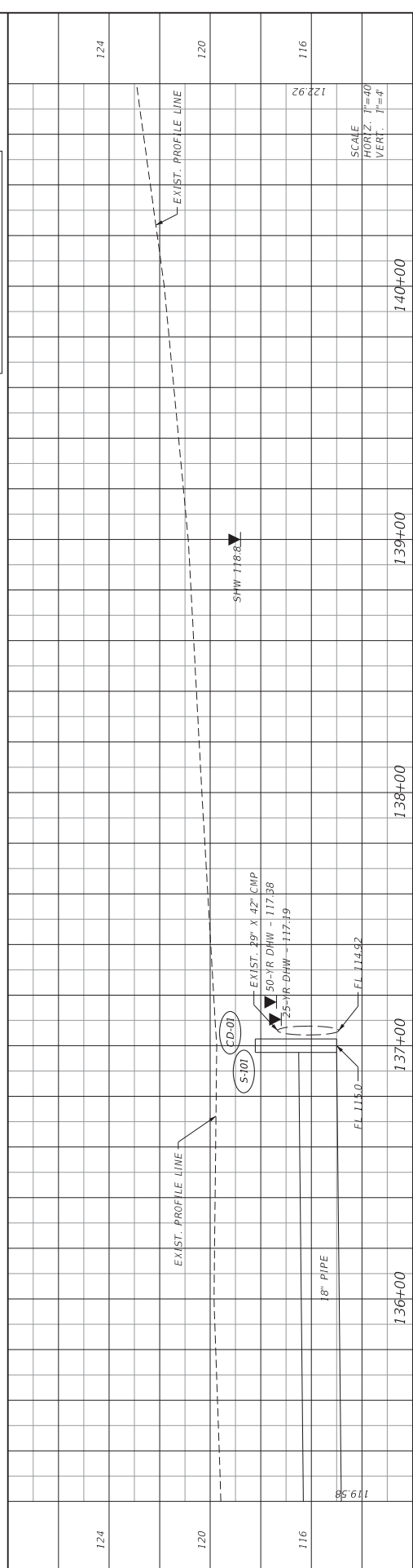
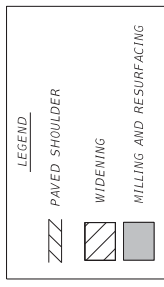
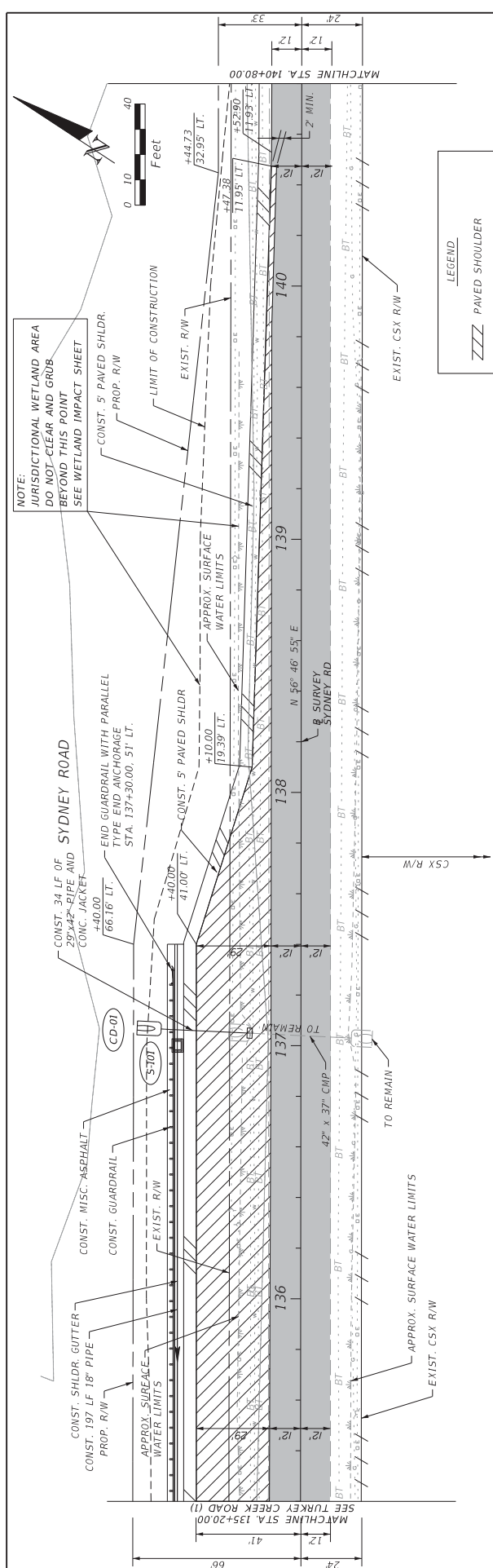
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. REYNOLDS ST PLANT CITY, FLORIDA 33613 (813) 257-9288	
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THOMAS A. QUINN, P.E. P.E. License Number: 45583 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization: 4213	
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TURKEY CREEK ROAD PLAN PROFILE TURKEY CREEK ROAD (14)	CLIP NO.: 69625 69601.408 69601.413
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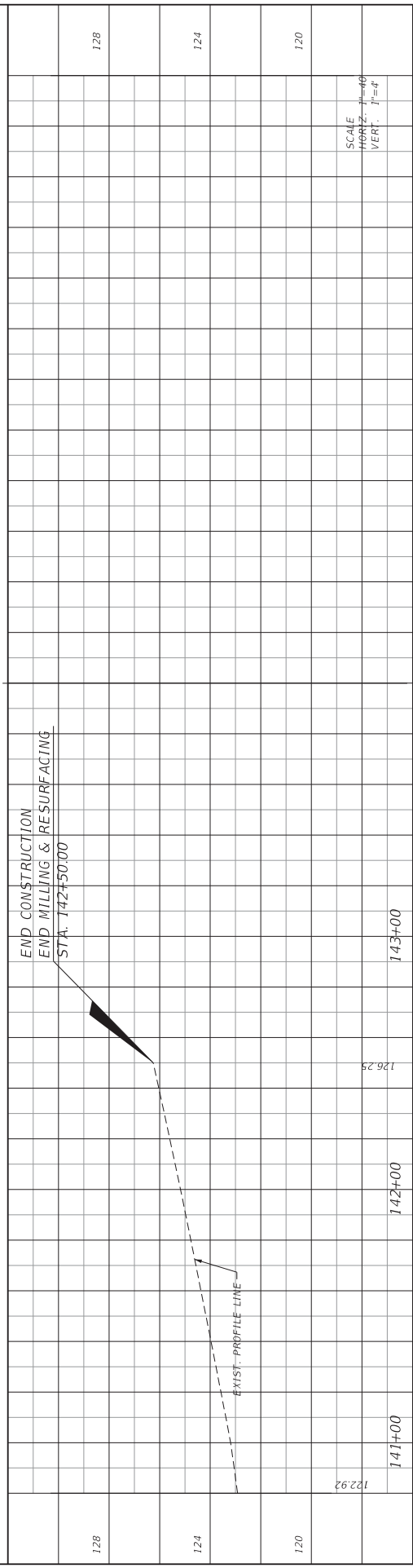
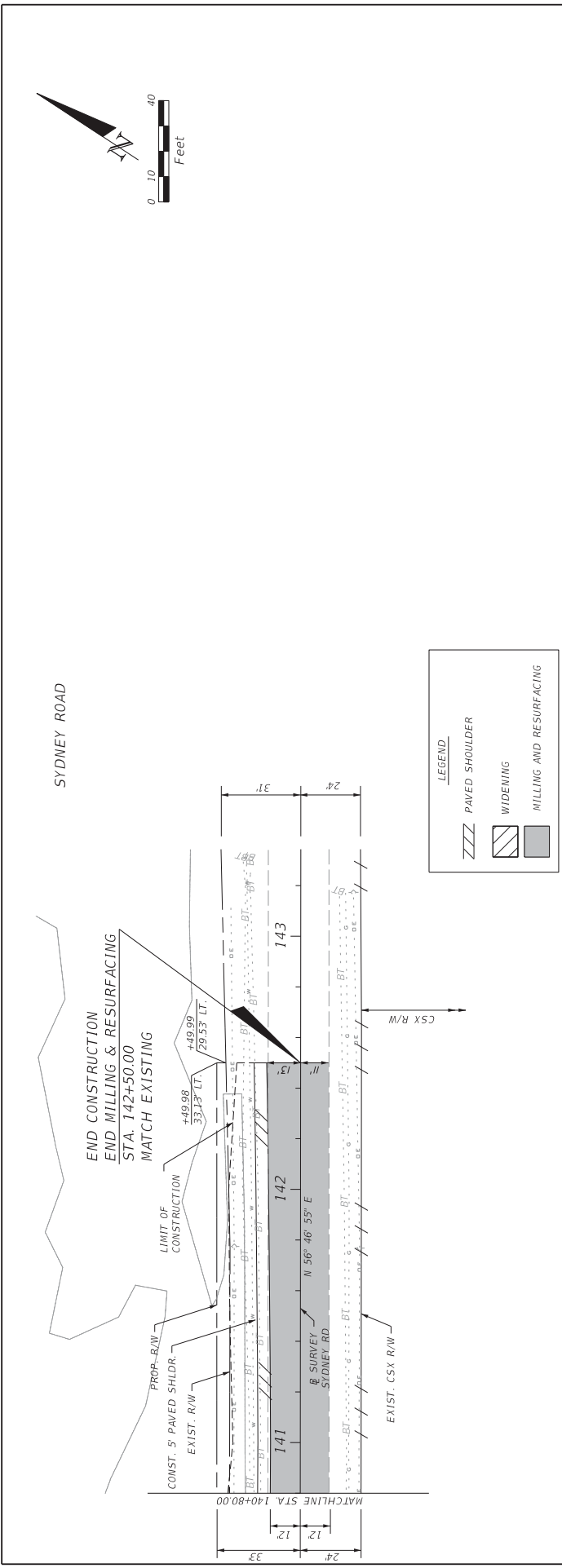
U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 22 OF 38




NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY: D. KODIFEN	DATE: 10/16	APPROVED BY: [Signature]
DRAWN BY: D. KODIFEN	10/16	
CHECKED BY: T. QUINN	10/16	
SUPERVISED BY: THOMAS A. QUINN, P.E.	10/16	

THOMAS A. QUINN, P.E. P.E. License Number 45583 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	TURKEY CREEK ROAD PLAN PROFILE SYDNEY ROAD (1)	CLIP NO. 69625 69601.408 69601.413	SHEET NO. 35
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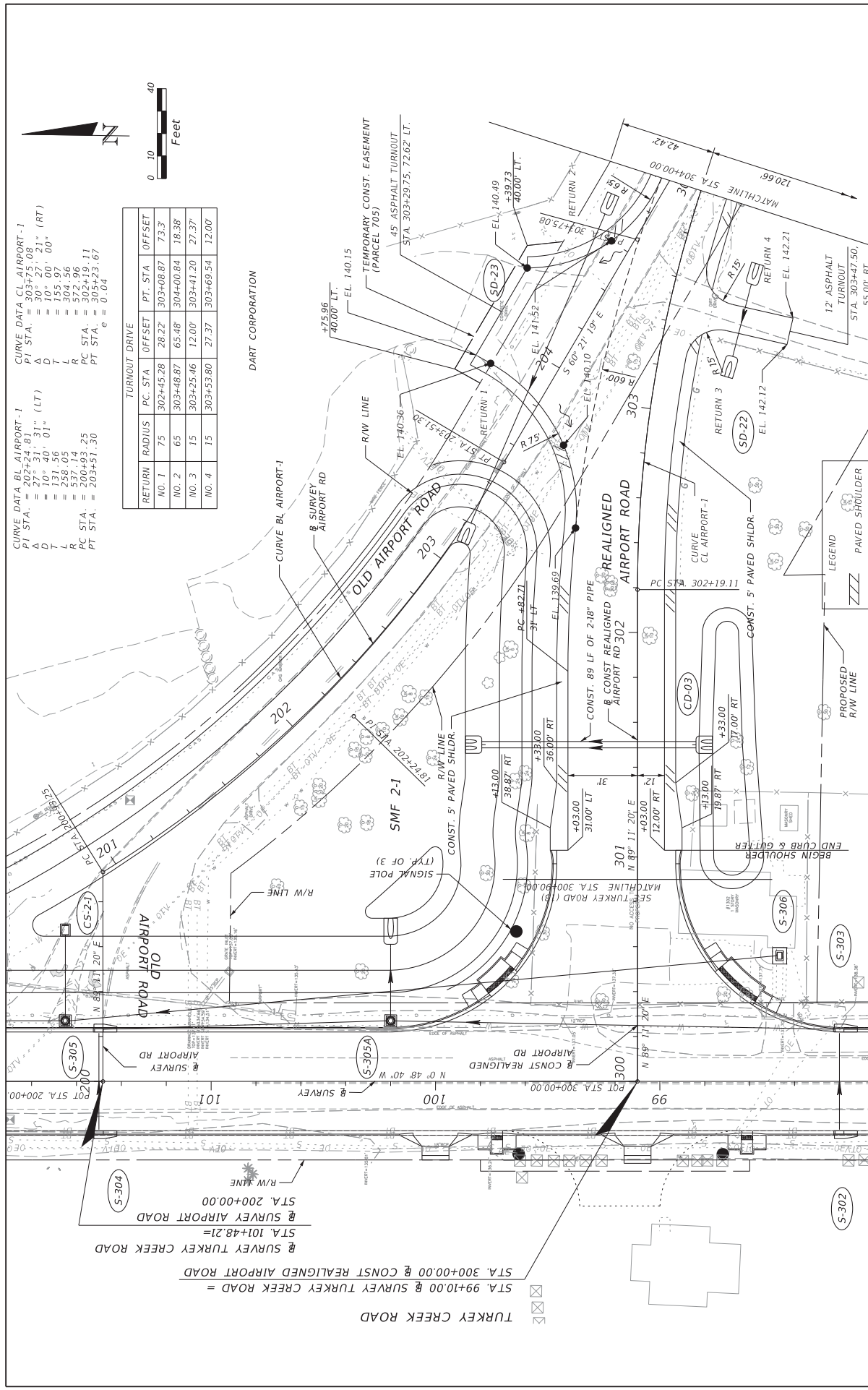
NO.	DATE	REVISIONS DESCRIPTION	APPROVED	DESIGNED BY:	NAME:	DATE:	APPROVED BY:	DATE:	CLIP NO.	SHEET NO.
				D. RUDIFEN	D. RUDIFEN	10/16			69625	
				T. QUINN	T. QUINN	10/16			69601.408	36
				THOMAS A. QUINN, P.E.	THOMAS A. QUINN, P.E.	10/16			69601.413	



CITY OF PLANT CITY
PUBLIC WORKS DIVISION
392 W. REYNOLDS ST
PLANT CITY, FLORIDA 33563
(813) 257-9288

THOMAS A. QUINN, P.E.
P.E. License Number 45353
5429 Bay Center Drive, Suite 400
Tampa, FL 33608-3444
Certificate of Authorization 4213





CURVE DATA BL AIRPORT-1
 PI STA. = 303+75.08
 Δ = 30° 27' 21" (RT)
 D = 10° 00' 00"
 L = 304.56
 R = 304.56
 PC STA. = 302+19.11
 PT STA. = 305+23.67
 e = 0.04

CURVE DATA CL AIRPORT-1
 PI STA. = 303+75.08
 Δ = 30° 27' 21" (RT)
 D = 10° 00' 00"
 L = 304.56
 R = 304.56
 PC STA. = 302+19.11
 PT STA. = 305+23.67
 e = 0.04

CURVE DATA BL AIRPORT-2
 PI STA. = 202+24.81
 Δ = 27° 31' 31" (LT)
 D = 131.50
 L = 258.05
 R = 537.14
 PC STA. = 200+93.25
 PT STA. = 203+51.30

CURVE DATA CL AIRPORT-1
 PI STA. = 302+45.28
 Δ = 30° 27' 21" (RT)
 D = 10° 00' 00"
 L = 304.56
 R = 304.56
 PC STA. = 302+19.11
 PT STA. = 305+23.67
 e = 0.04

TURNOUT DRIVE		RETURN	RADIUS	PC STA	OFFSET	PT STA	OFFSET
NO. 1	75	302+45.28	28.22	303+08.67	73.3		
NO. 2	65	303+48.87	65.48	304+00.84	18.38		
NO. 3	15	303+25.46	12.00	303+41.20	27.37		
NO. 4	15	303+53.80	27.37	303+69.54	12.00		

NO.	DATE	REVISIONS	APPROVED

DESIGNED BY: D. RIGDEN
 DRAWN BY: D. RIGDEN
 CHECKED BY: T. QUINN
 SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16
 10/16
 10/16

NAME: D. RIGDEN
 T. QUINN
 THOMAS A. QUINN, P.E.

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETFOLDS ST
 PLANT CITY, FLORIDA 33563
 (813) 257-9288

THOMAS A. QUINN, P.E.
 P.E. License Number 65353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

LEGEND
 PAVED SHOULDER
 PROPOSED R/W LINE

TURKEY CREEK ROAD
 AIRPORT ROAD (I)

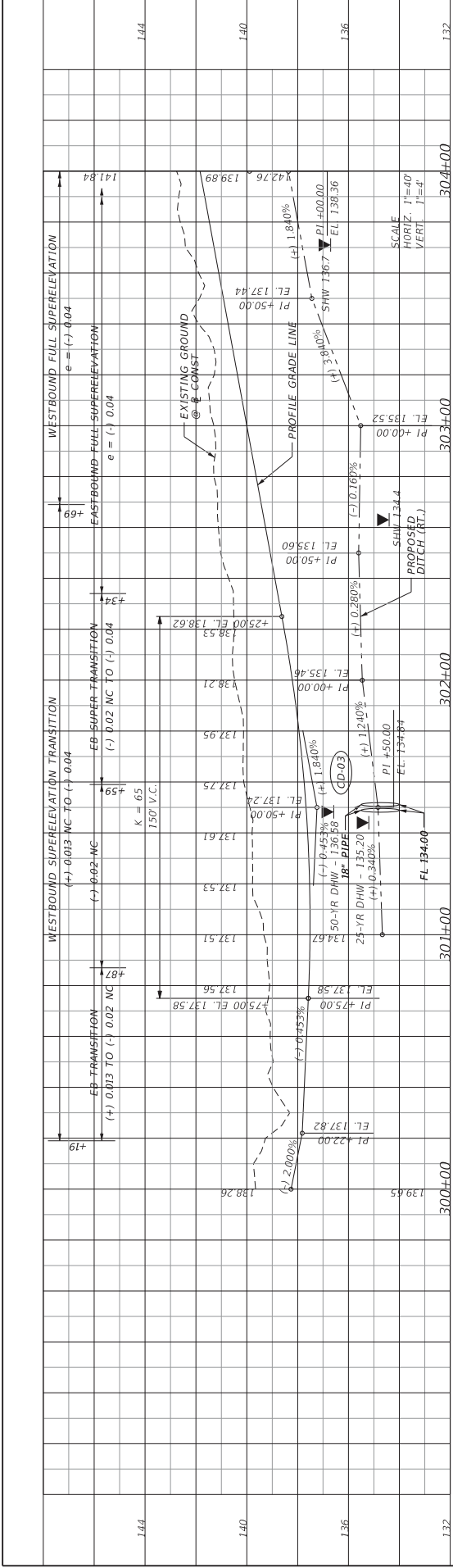
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 69601.408
 69601.413

SHEET NO. 37



U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 25 OF 38

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 D. RIGDEN



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

THOMAS A. QUINN, P.E.
 P.E. License Number: 45583
 5429 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization: 4213

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. REYNOLDS ST
 PLANT CITY, FLORIDA 33563
 (813) 357-4288

DESIGNED BY: D. NGDIEN
DRAWN BY: T. QUINN
CHECKED BY: T. QUINN
SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16

APPROVED BY: D. NGDIEN

NAME: D. NGDIEN

DATE: 10/16

**TURKEY CREEK ROAD
 ROADWAY PROFILE
 AIRPORT ROAD (2)**

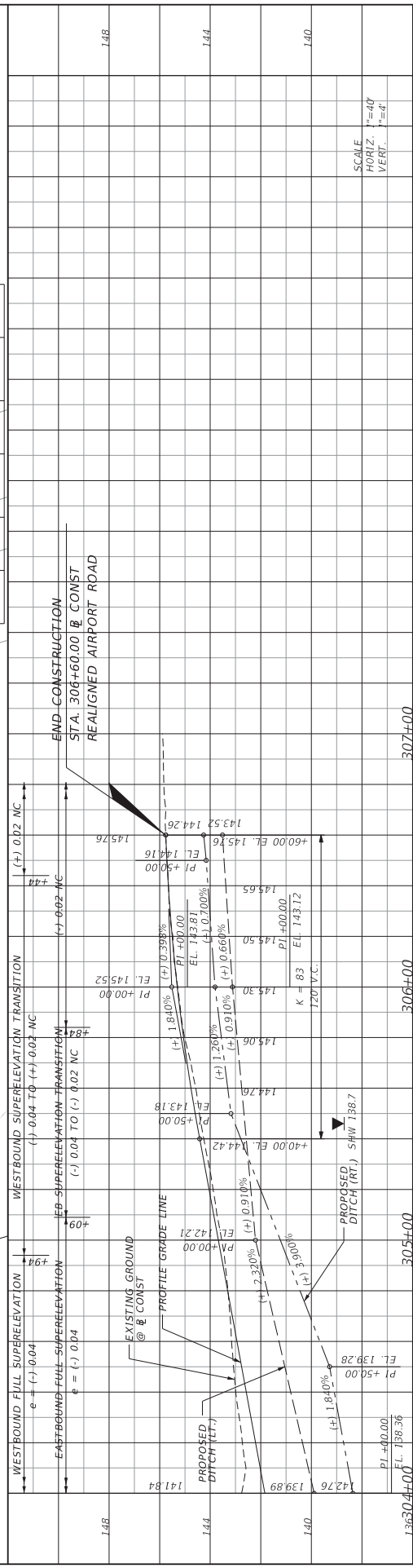
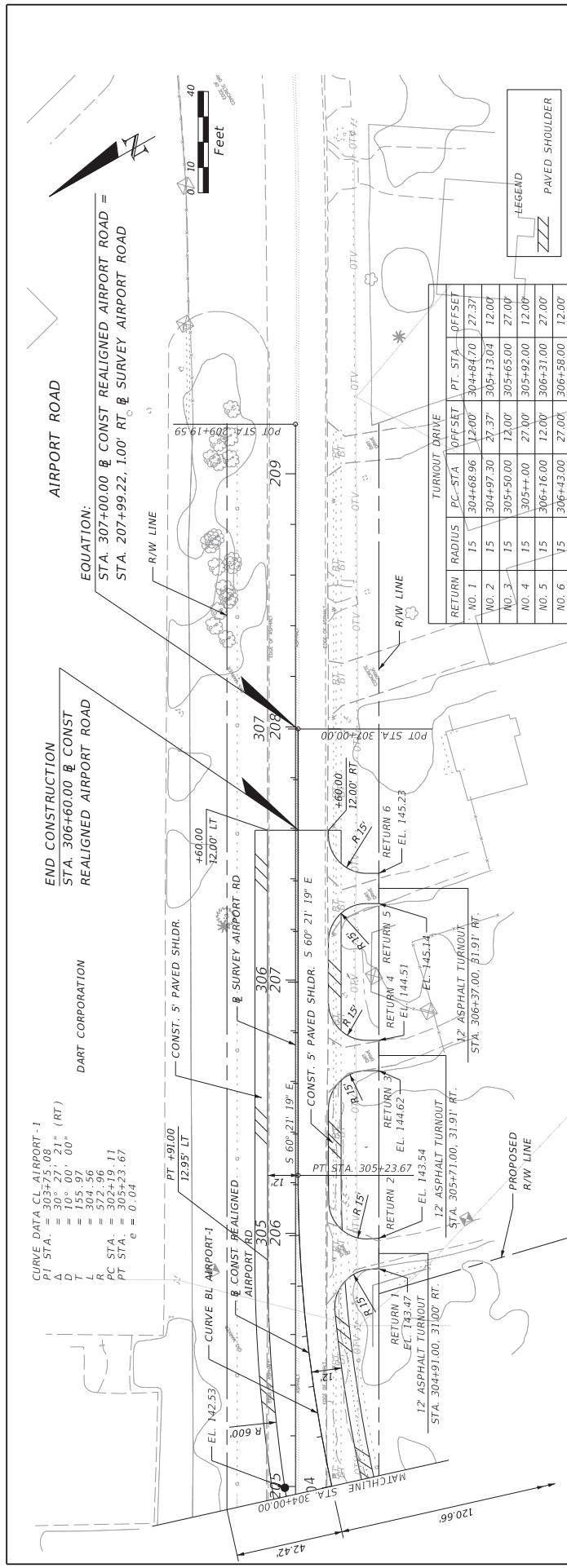
CLIP NO.: 69625, 69601.408, 69601.413

SHEET NO.: 38

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U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 26 OF 38

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NO.	DATE	REVISIONS DESCRIPTION	APPROVED

DESIGNED BY: D. RUDINEN
DRAWN BY: T. QUINN
CHECKED BY: T. QUINN
SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16
 10/16
 10/16

NAME: D. RUDINEN
 T. QUINN
 THOMAS A. QUINN, P.E.

APPROVED BY:

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETNOLDS ST
 PLANT CITY, FLORIDA 33563
 (813) 257-9288

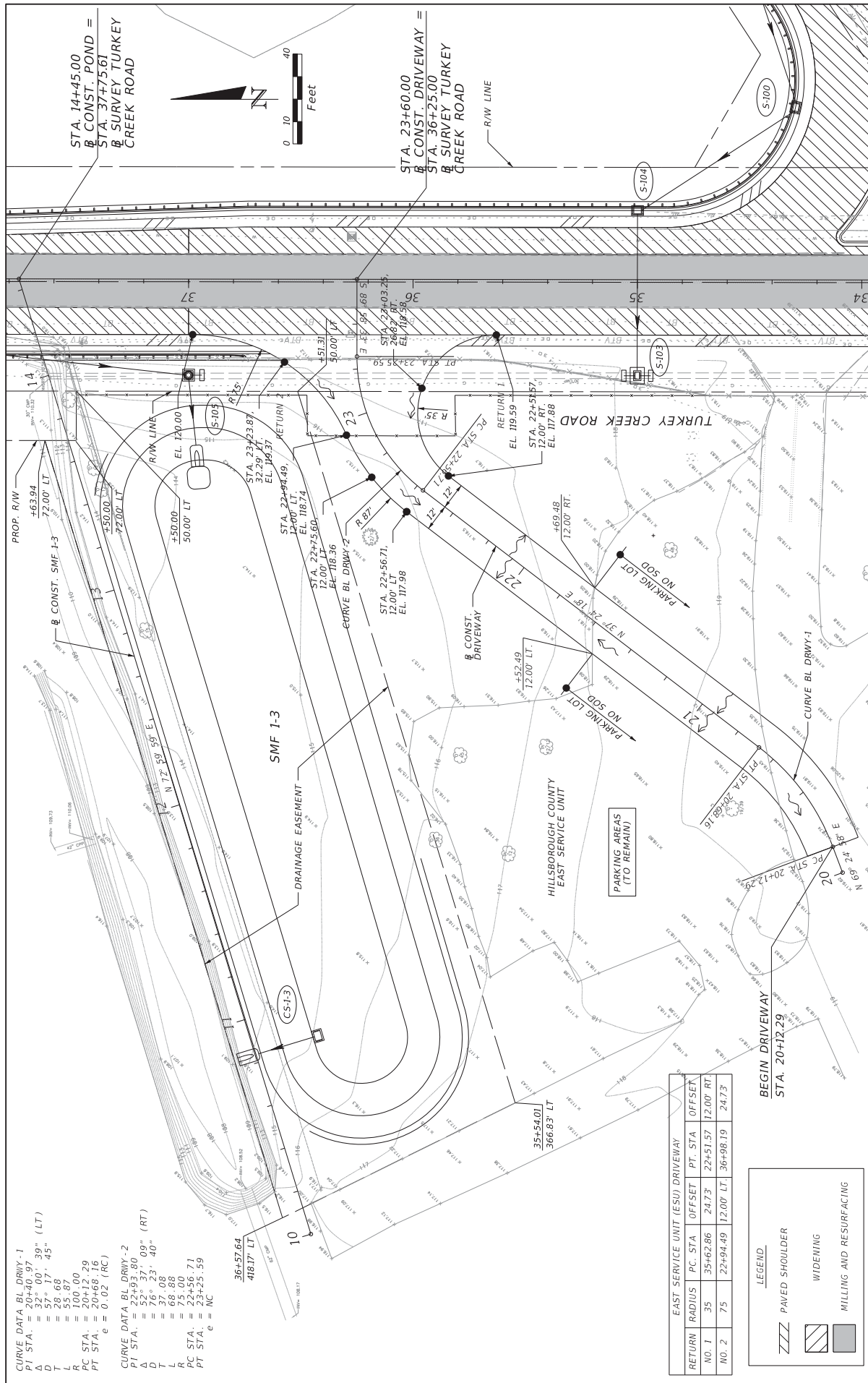
THOMAS A. QUINN, P.E.
 P.E. License Number 45553
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

TURKEY CREEK ROAD
PLAN PROFILE
AIRPORT ROAD (5)

SCALE
 HORIZ. 1"=60'
 VERT. 1"=6'

CLIP NO.: 69625
 69601.408
 69601.413

SHEET NO.: 39



CURVE DATA BL DRIVEY-1
 PI STA. = 20+40.97 (LT)
 Δ = 32° 00' 39"
 D = 57' 17" 45"
 L = 55.87
 R = 100.00
 PC STA. = 20+12.29
 PT STA. = 20+68.16
 e = 0.02 (RC)

CURVE DATA BL DRIVEY-2
 PI STA. = 22+93.80
 Δ = 52° 37' 09" (RT)
 D = 76' 23" 40"
 L = 37.08
 R = 75.00
 PC STA. = 22+56.71
 PT STA. = 23+25.59
 e = NC

RETURN	RADIUS	PC STA	OFFSET	PT STA	OFFSET
NO. 1	35	35+62.86	24.73	22+51.57	12.00' RT
NO. 2	75	22+94.49	12.00' LT	36+98.19	24.73

LEGEND

- PAVED SHOULDER (hatched pattern)
- WIDENING (diagonal lines)
- MILLING AND RESURFACING (solid grey)

NO.	DATE	REVISIONS DESCRIPTION	APPROVED

THOMAS A. QUINN, P.E.
 P.E. License Number 45353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

HR

CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 302 W. RETFOLDS ST
 PLANT CITY, FLORIDA 33563
 (813) 757-9288

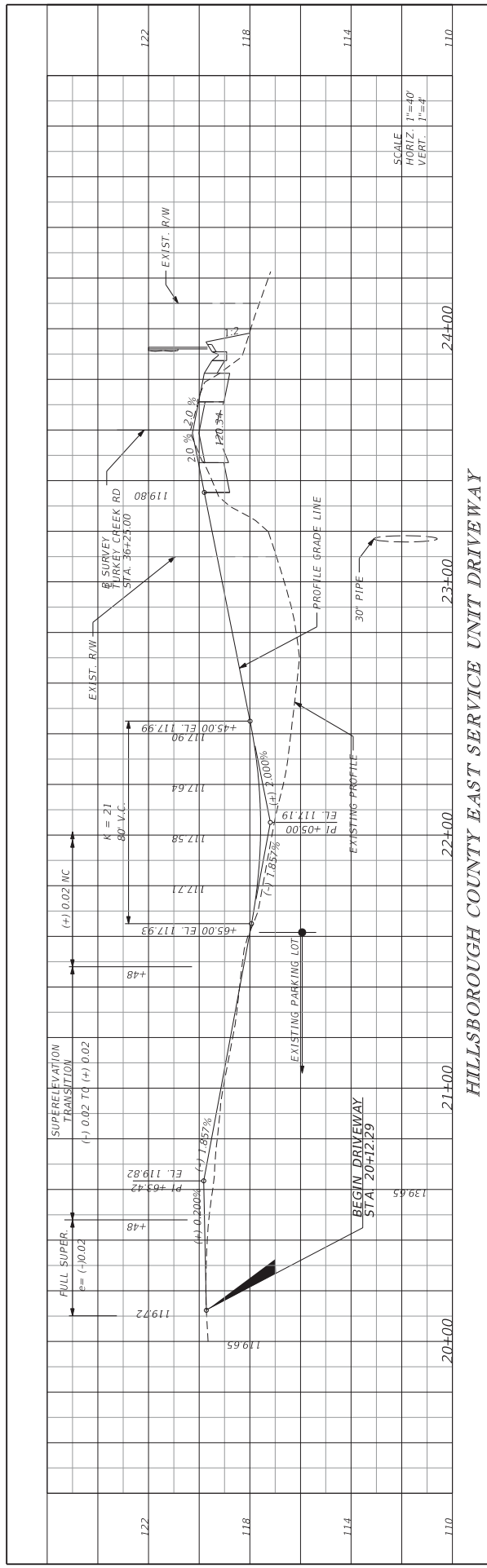
DESIGNED BY: D. RIGGLEN
 DRAWN BY: D. RIGGLEN
 CHECKED BY: T. QUINN
 SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16
 DATE: 10/16
 DATE: 10/16

APPROVED BY:

TURKEY CREEK ROAD
ROADWAY PLAN
ESU DRIVEWAY

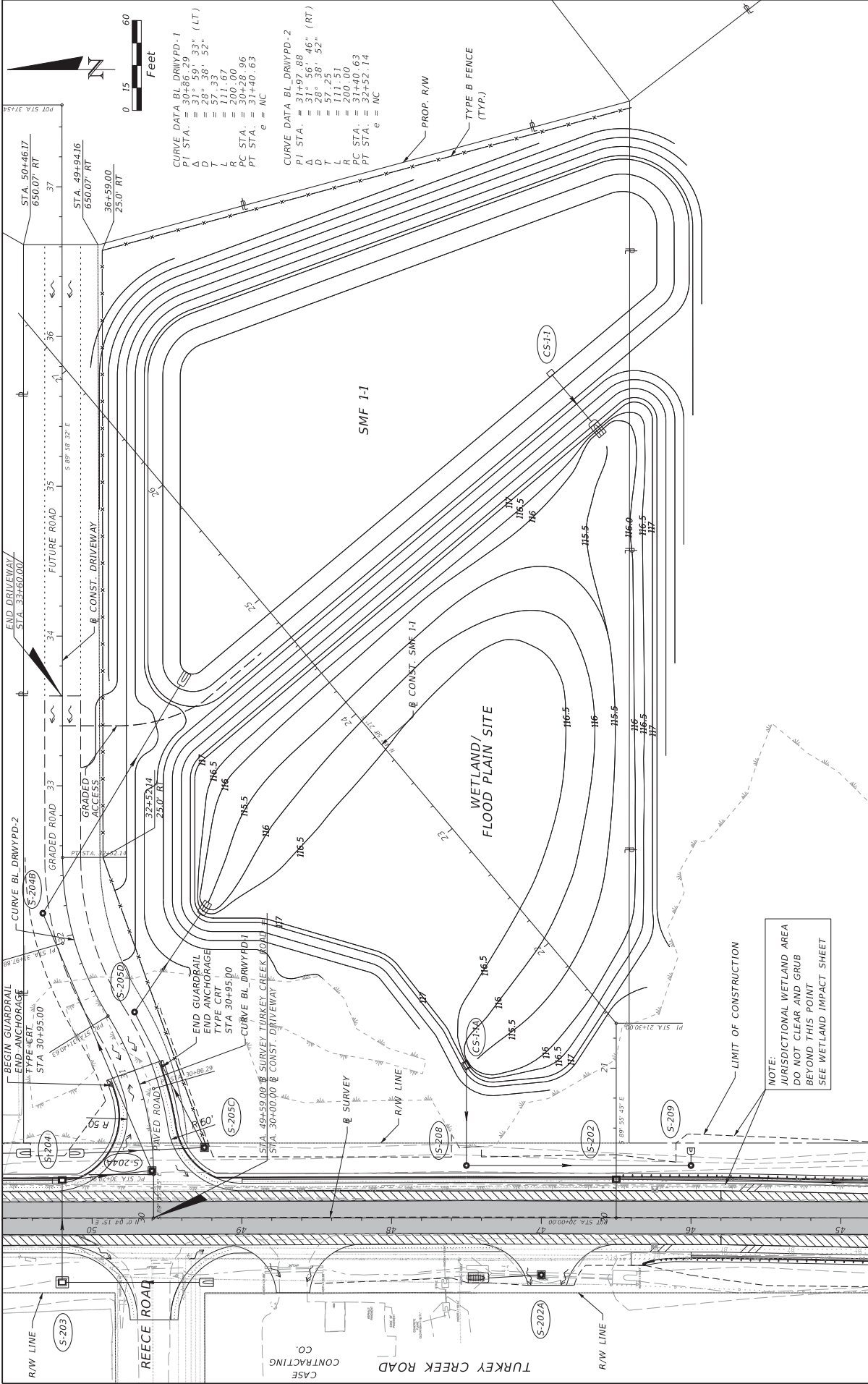
SHEET NO. 40
 C.D.P. NO. 69625
 69601.408
 69601.413



HILLSBOROUGH COUNTY EAST SERVICE UNIT DRIVEWAY

NO.	DATE	REVISIONS DESCRIPTION	APPROVED

		THOMAS A. QUINN, P.E. P.E. License Number 45353 5429 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization 4213	
		CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. REYNOLDS ST PLANT CITY, FLORIDA 33613 (813) 757-9288	
DESIGNED BY:	D. NGDIEN	DATE:	10/16
DRAWN BY:	T. QUINN	CHECKED BY:	T. QUINN
SUPERVISED BY:	THOMAS A. QUINN, P.E.	APPROVED BY:	D. NGDIEN
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. REYNOLDS ST PLANT CITY, FLORIDA 33613 (813) 757-9288		APPROVED BY: D. NGDIEN DATE: 10/16	
TURKEY CREEK ROAD ROADWAY PROFILE E S U DRIVEWAY		CLIP NO. 69625 69601.408 69601.413	SHEET NO. 41



CURVE DATA BL DRWYPD-1
 PI STA. = 30+86.29
 Δ = 31° 59' 33" (LT)
 D = 59' 38" 52"
 L = 111.67
 R = 200.00
 PC STA. = 30+28.96
 PT STA. = 31+40.63
 e = NC

CURVE DATA BL DRWYPD-2
 PI STA. = 31+97.88
 Δ = 26° 38' 46" (RT)
 D = 57' 25"
 L = 111.51
 R = 200.00
 PC STA. = 31+40.63
 PT STA. = 32+52.14
 e = NC

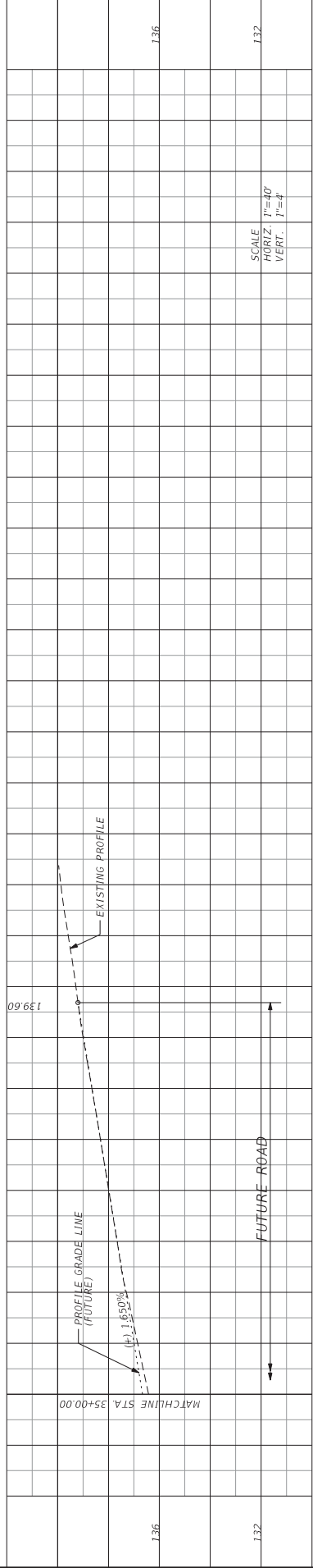
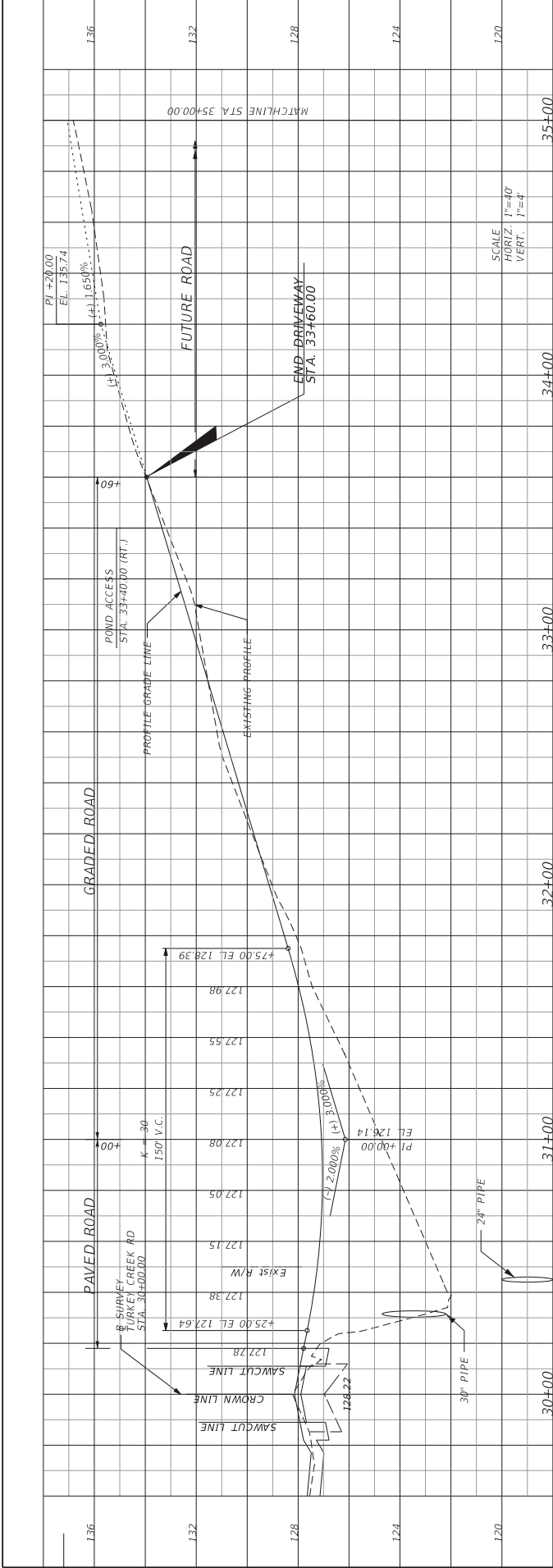
NO.	DATE	REVISIONS	DESCRIPTION	APPROVED

THOMAS A. QUINN, P.E. License Number: 45353 5428 Bay Center Drive, Suite 400 Tampa, FL 33606-3444 Certificate of Authorization: 4213		 CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33563 (813) 757-9288	DESIGNED BY: D. NGDIEN DRAWN BY: T. QUINN CHECKED BY: T. QUINN SUPERVISED BY: THOMAS A. QUINN, P.E.	NAME: D. NGDIEN DATE: 10/16 APPROVED BY: T. QUINN DATE: 10/16	TURKEY CREEK ROAD ROADWAY PLAN DRIVEWAY ACCESS SMF 1-1	SHEET NO.: 42 CLIP NO.: 69601.408 69601.413



U.S. ARMY CORPS OF ENGINEERS
 PERMIT APP NO: SAJ-2016-02608
 DRAWING 30 OF 38

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136										
132										
128										
124										
120										
136										
132										

NO.	DATE	REVISIONS
		DESCRIPTION
		APPROVED

	DESIGNED BY: D. NGDIEN	DATE: 10/16	APPROVED BY:
	DRAWN BY: T. QUINN	10/16	
	CHECKED BY: T. QUINN	10/16	
	SUPERVISED BY: THOMAS A. QUINN, P.E.	10/16	
	THOMAS A. QUINN, P.E. FLORIDA LICENSE NUMBER: 45583 5429 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization: 4213		

35+00	36+00	37+00	

REVISED	DATE	DESCRIPTION

	DESIGNED BY: D. NGDIEN	DATE: 10/16	APPROVED BY:
	DRAWN BY: T. QUINN	10/16	
	CHECKED BY: T. QUINN	10/16	
	SUPERVISED BY: THOMAS A. QUINN, P.E.	10/16	
	THOMAS A. QUINN, P.E. FLORIDA LICENSE NUMBER: 45583 5429 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization: 4213		

128

REVISIONS

DESCRIPTION

APPROVED

THOMAS A. QUINN, P.E.

FLORIDA LICENSE NUMBER 45583

5429 Bay Center Drive, Suite 400

Tampa, FL 33608-3444

Certificate of Authorization 4213

CITY OF PLANT CITY

PUBLIC WORKS DIVISION

392 W. RETNOLDS ST

PLANT CITY, FLORIDA 33613

(813) 757-9288

DESIGNED BY: D. NGDIEN

DRAWN BY: T. QUINN

CHECKED BY: T. QUINN

SUPERVISED BY: THOMAS A. QUINN, P.E.

DATE: 10/16

10/16

APPROVED BY:

TURKEY CREEK ROAD

ROADWAY PROFILE

DRIVEWAY ACCESS SMF I-1

CLIP NO. 69625

69601.408

69601.413

SHEET NO. 43

1/25/2017 3:14:00 PM

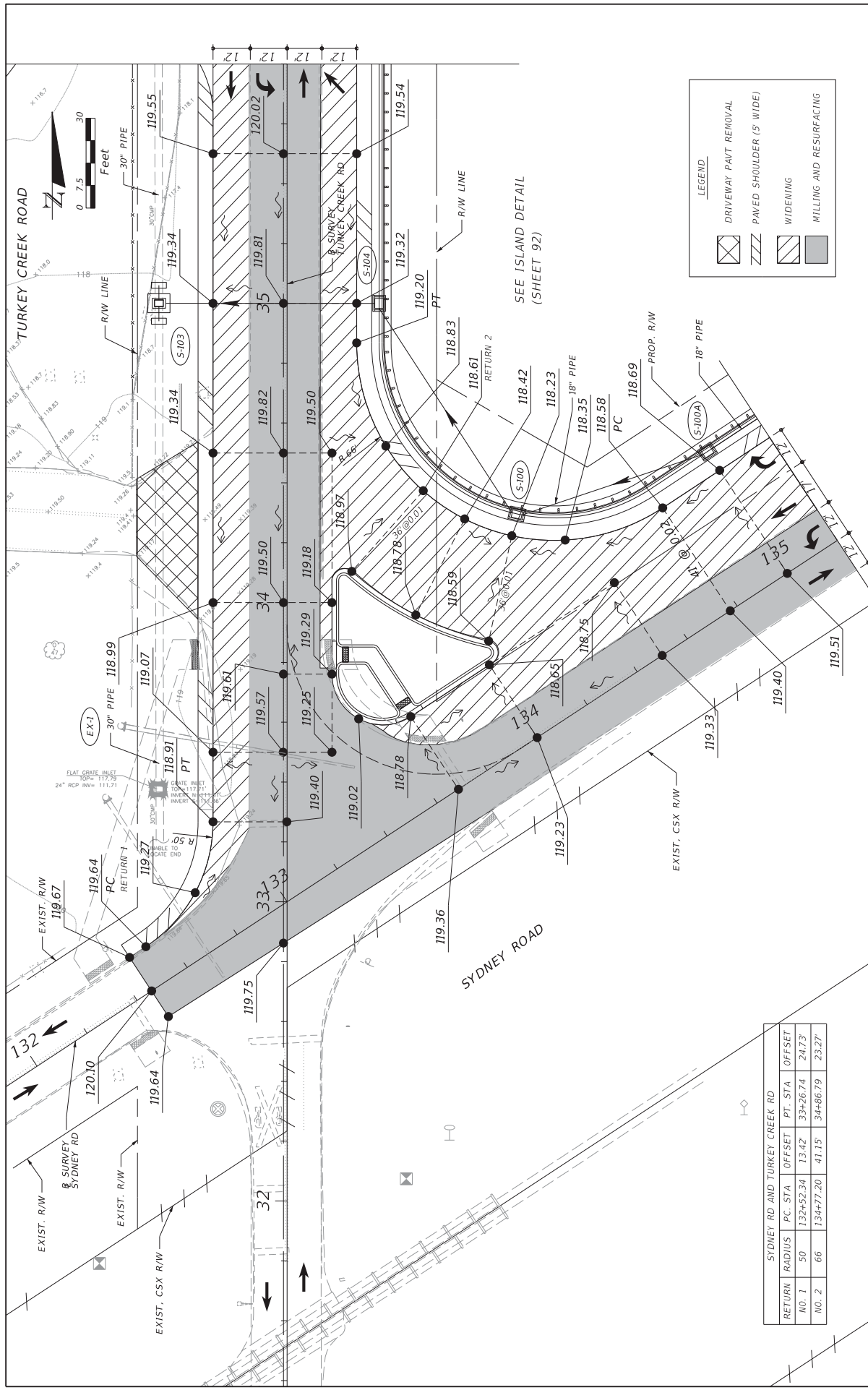
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U.S. ARMY CORPS OF ENGINEERS

PERMIT APP NO: SAJ-2016-02608

DRAWING 31 OF 38



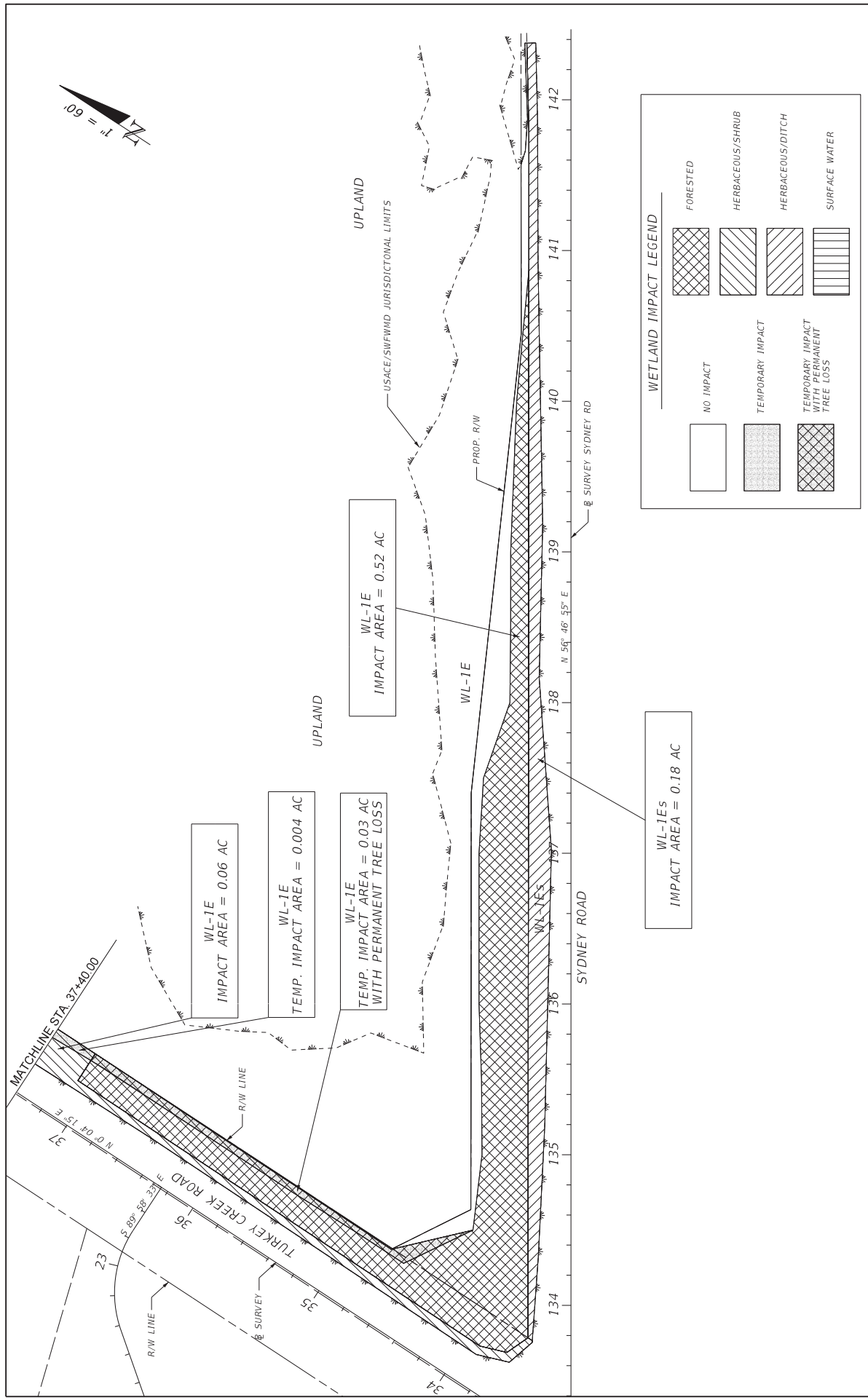
NO.	DATE	REVISIONS	APPROVED	DESIGNED BY:	DATE	APPROVED BY:	CITY OF PLANT CITY	DESIGNED BY:	DATE	APPROVED BY:	TURKEY CREEK ROAD	SHEET NO.
				D. NGDIEN	10/16	D. NGDIEN	PUBLIC WORKS DIVISION	D. NGDIEN	10/16	D. NGDIEN	SYDNEY ROAD	69625
				T. QUINN	10/16	T. QUINN	392 W. REYNOLDS ST	T. QUINN	10/16	T. QUINN	INTERSECTION DETAIL	69601.408
				THOMAS A. QUINN, P.E.	10/16	THOMAS A. QUINN, P.E.	PLANT CITY, FLORIDA 33563	THOMAS A. QUINN, P.E.	10/16	THOMAS A. QUINN, P.E.		69601.413
							(813) 257-9288					44

HR

THOMAS A. QUINN, P.E.
 P.E. License Number 65353
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33606-3444
 Certificate of Authorization 4213

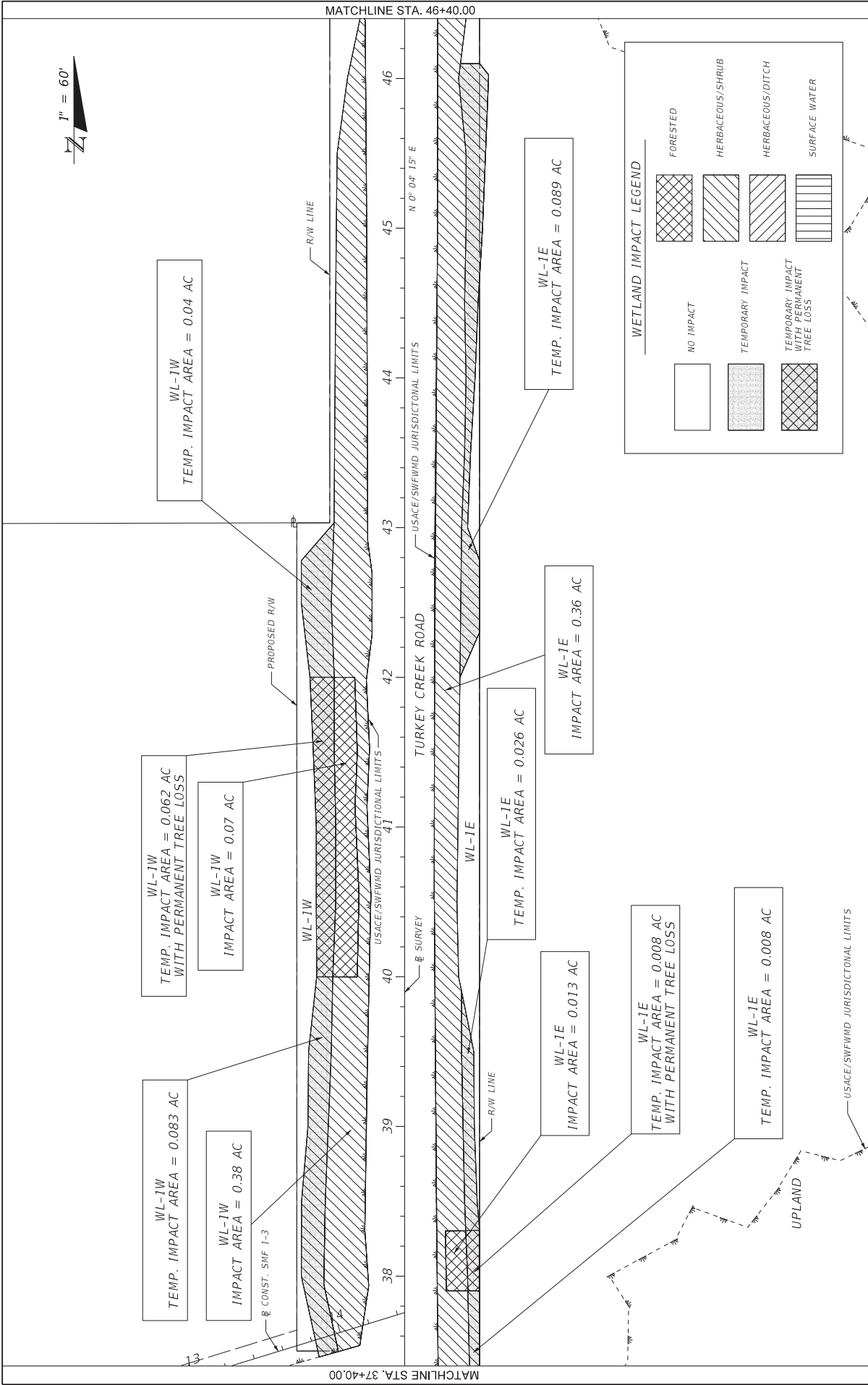
SYDNEY RD AND TURKEY CREEK RD					
RETURN	RADIUS	PC STA	OFF-SET	PT. STA	OFF-SET
NO. 1	50	132+52.34	13.42'	33+26.74	24.73'
NO. 2	66	134+77.20	41.15'	34+86.79	23.27'





NO.	DATE	REVISIONS DESCRIPTION	APPROVED

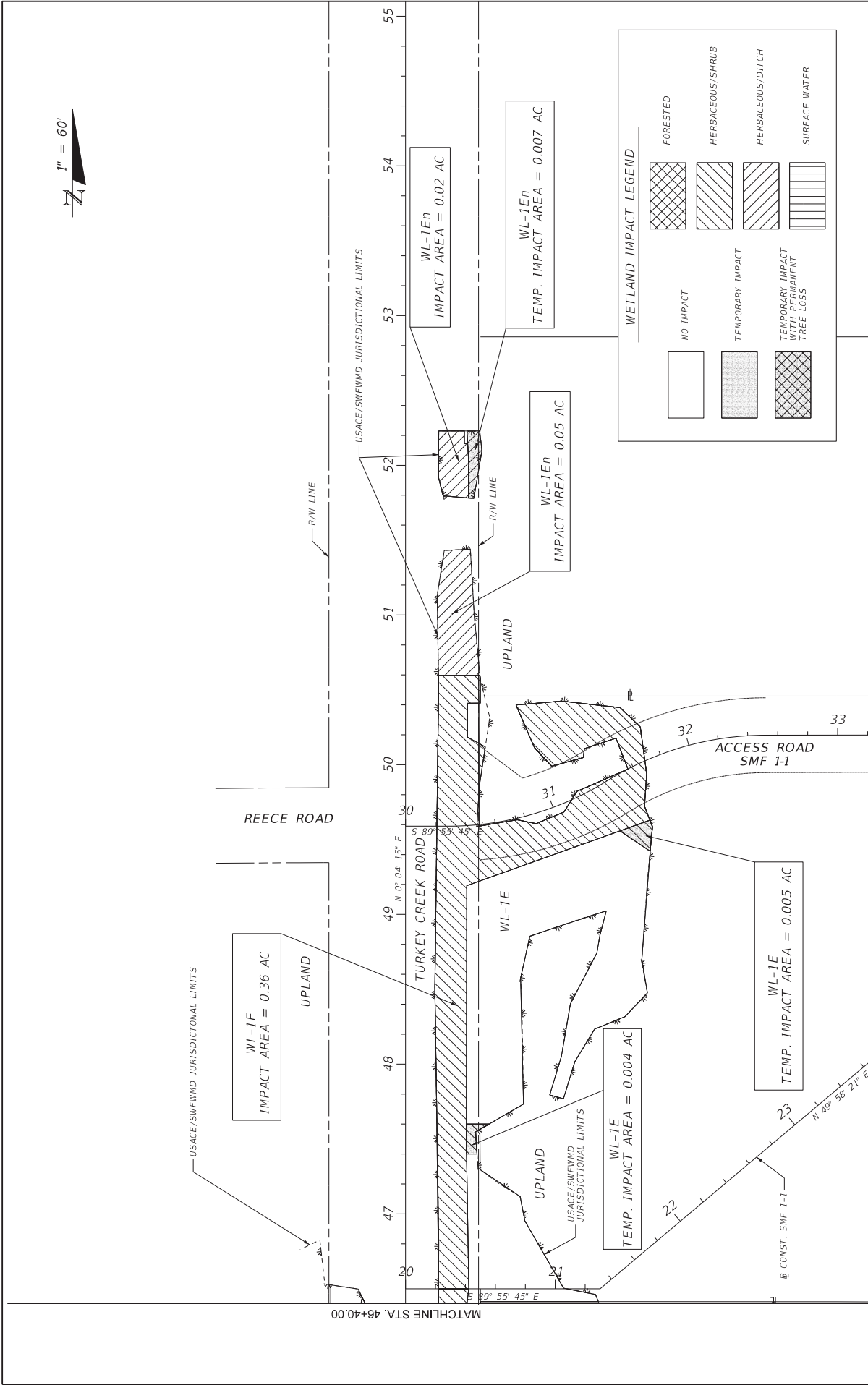
JAMES W. JOHNSTON, P.E. P.E. License Number 57064 5429 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213			
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33563 (813) 757-9288		APPROVED BY: JAMES W. JOHNSTON, P.E. SUPERVISED BY: THOMAS A. QUINN, P.E.	
DESIGNED BY: B. LENZ DRAWN BY: N. LOPEZ CHECKED BY: C. MESSEKOPPE SUPERVISED BY: THOMAS A. QUINN, P.E.		DATE: 10/16 10/16 10/16	
TURKEY CREEK ROAD		CLIP NO.: 69625 69601.408 69601.413	
WETLAND IMPACTS (1)		SHEET NO.: 86	



NO.	DATE	REVISIONS DESCRIPTION	APPROVED

JAMES W. JOHNSTON, P.E. P.E. License Number 57064 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213				
CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETVOLD'S ST PLANT CITY, FLORIDA 33663 (813) 757-9288				
DESIGNED BY:	B. LENZ		DATE:	10/16
DRAWN BY:	N. LOPEZ		CHECKED BY:	C. MESSEKOPPE
SUPERVISED BY: THOMAS A. QUINN, P.E.		APPROVED BY:	JAMES W. JOHNSTON, P.E.	

TURKEY CREEK ROAD	CLIP NO.	69625	SHEET NO.	87
WETLAND IMPACTS (2)		69601.408		
		69601.413		



WETLAND IMPACT LEGEND

	NO IMPACT		FORESTED
	TEMPORARY IMPACT		HERBACEOUS/SHRUB
	TEMPORARY IMPACT WITH PERMANENT TREE LOSS		HERBACEOUS/DITCH
			SURFACE WATER

NO.	DATE	APPROVED	DESCRIPTION

DESIGNED BY:	B. LENZ	DATE:	10/16
DRAWN BY:	N. LOPEZ	CHECKED BY:	C. MESSEKOPF
SUPERVISED BY:	THOMAS A. QUINN, P.E.	DATE:	10/16

CITY OF PLANT CITY PUBLIC WORKS DIVISION 392 W. REYNOLDS ST PLANT CITY, FLORIDA 33663 (813) 757-9288	TURKEY CREEK ROAD	CLIP NO.	69625 69601.408 69601.413
	WETLAND IMPACTS (3)	SHEET NO.	88

JAMES W. JOHNSTON, P.E.
P.E. License Number 27064
5428 Bay Center Drive, Suite 400
Tampa, FL 33608-3444
Certificate of Authorization 4213



MONITORING PLAN

- A WETLAND MITIGATION COMPLETION REPORT SHALL BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF COMPLETING CONSTRUCTION AND PLANTING OF THE WETLAND MITIGATION AREA. UPON DISTRICT INSPECTION AND APPROVAL OF THE MITIGATION AREA, THE MONITORING PROGRAM SHALL BE INITIATED WITH THE DATE OF THE MITIGATION AREA. MONITORING EVENTS SHALL OCCUR BETWEEN MARCH 1 AND NOVEMBER 30 OF EACH YEAR. AN ANNUAL WETLAND MONITORING REPORT SHALL BE SUBMITTED UPON THE ANNIVERSARY DATE OF DISTRICT APPROVAL TO INITIATE MONITORING.
- ANNUAL REPORTS SHALL PROVIDE DOCUMENTATION THAT A SUFFICIENT NUMBER OF MAINTENANCE INSPECTION/ACTIVITIES WERE CONDUCTED TO MAINTAIN THE SITE IN COMPLIANCE WITH THE WETLAND MITIGATION SITE SUCCESS CRITERIA CONTAINED WITHIN THE PERMIT. THE PERFORMANCE OF THE MAINTENANCE INSPECTIONS AND MAINTENANCE ACTIVITIES WILL NEED TO BE CONDUCTED MORE FREQUENTLY THAN THE COLLECTION OF THE OTHER MONITORING DATA TO MAINTAIN THE MITIGATION SITE IN COMPLIANCE WITH THE SUCCESS CRITERIA CONTAINED WITHIN THE PERMIT.
- EKOLOGICAL MONITORING TO SNOWBIRD SHALL OCCUR TWO TIMES PER YEAR WITH ANNUAL REPORT SUBMITTED. REPORTS WILL CONTAIN THE STANDARD COMPENSATION MONITORING FORM.
- COMPENSATION AREAS WILL SATISFY THE WETLAND COMPENSATION SUCCESS CRITERIA AS A REQUIREMENT FOR MONITORING TERMINATION.
- THE SITE, A FORESTED/SHRUB/EMERGENT CREATION AREA, WILL BE MONITORED/MAINTAINED ACCORDING TO SPECIAL CONDITIONS AND SUCCESS CRITERIA OF PERMIT INCLUDING REQUIREMENTS FOR COVER, SURVIVORSHIP AND NUISANCE SPECIES LEVELS.
- HYDROLOGIC MONITORING OF THE SITE WILL INDICATE GROUND WATER ELEVATIONS VIA A STAFF GAUGE INSTALLED AND CALIBRATED TO THE SHWL (117.0') AT THE DISCHARGE STRUCTURE.
- TREE AND SHRUB PLOTS AND HERBACEOUS ONE-METER QUADRATS WILL BE USED TO ASSESS THE COMPOSITION, SURVIVORSHIP, DENSITY, AND PERCENT COVER OF DESIRABLE PLANTED/RECRUITED VEGETATION AS WELL AS NUISANCE SPECIES LEVELS IN THE MITIGATION AREAS. LENGTH/SIZE TRANSECTS, SHRUB PLOTS, AND HERBACEOUS QUADRATS WILL BE REPRESENTATIVE OF TOTAL ZONE SIZE.
- PHOTO STATIONS WILL PROVIDE VISUAL ASSESSMENT AND FURTHER DOCUMENTATION OF SUCCESS CRITERIA-RELATED CONDITIONS.
- MONITORING WILL INCLUDE DOCUMENTATION OF WILDLIFE UTILIZATION.

MAINTENANCE PLAN

- COVER BY NUISANCE AND EXOTIC SPECIES SHALL NOT EXCEED 5% OF THE COMPENSATION AREAS. COVERAGE BY UPLANDS VEGETATION SHALL NOT EXCEED 5% OF THE WETLAND AREAS DURING THE WET SEASON (JUNE-SEPTEMBER)
- MAINTENANCE ACTIVITIES FOR THE MONITORING INTERVAL WILL BE SUMMARIZED IN EACH MONITORING REPORT.
- CORRECTIVE ACTION WILL BE IMPLEMENTED AS NECESSARY TO ACHIEVE SUCCESS CRITERIA.
- CONDITIONS OF THE CONSERVATION EASEMENT-INCLUDING PROHIBITION OF DUMPING, MOWING, REMOVAL AND/OR DESTRUCTION OF VEGETATION-WILL BE ENFORCED.

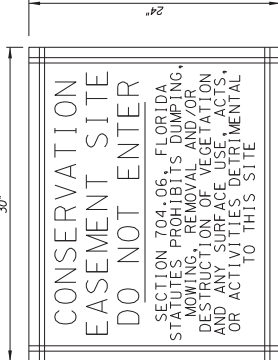
MITIGATION PLAN

- A 6" LAYER OF ORGANIC MUCK SHALL BE PLACED BY THE GENERAL CONTRACTOR AND INCLUDED IN THE COST OF PAY ITEM 162-1-11) FINISHED SOIL-LATER (SY).
- EMERGENT AQUATICS SHALL BE CONTAINER-GROWN OR BARE ROOT. WELL-CLUMPED, 3-5 PETIOLE SPECIMENS, THE PLANT MATERIAL SHALL BE KEPT MOIST AND WRAPPED IN CLOTH, BURLAP, OR NEWSPAPER UNTIL PLANTING. THE BARE ROOT MATERIAL SHALL BE PLANTED WITHIN 48 HOURS AFTER BEING DUG UP. CONTAINER MATERIAL SHALL BE PLANTED WITHIN 48 HOURS OF DELIVERY ON SITE. PLANTS SHALL BE PLANTED IN DESIGNATED ZONES, AND SPACED AS SPECIFIED (3' OC IN EMERGENT AREAS AND IN FORESTED AREAS).

MITIGATION PLANTING NOTES

- TREE AND SHRUB AQUATIC SPECIES SHALL BE 3-GALLON, CONTAINER GROWN 5-7' HEIGHT TREES. ALL WOODY MATERIALS SHALL BE FLORIDA NO. 1 GRADE OR BETTER AS DESCRIBED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, LATEST EDITION. TREES SHALL BE ACCLIMATED TO HIGH-WATER CONDITIONS 30 DAYS PRIOR TO DELIVERY.
- THE LOCATIONS OF PLANTS AND SPACING SCHEME IN THE PLANS ARE APPROXIMATE. FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD MODIFICATION REQUESTS TO BE MADE TO PERMITTING AGENCIES.
- ALL HERBACEOUS MATERIALS AND TREES SHALL BE GUARANTEED FOR ONE YEAR AFTER PROJECT COMPLETION DATE.
- CONTRACTOR SHALL MAINTAIN ALL OF THE PLANT MATERIALS DURING THE PLANTING TIME AND UP TO ONE YEAR AFTER THE FINAL ACCEPTANCE BY THE CITY/COUNTY. CONTRACTOR SHALL BE RESPONSIBLE FOR BIDDING AND EXECUTING A MAINTENANCE PROGRAM IN ACCORDANCE WITH HILLSBOROUGH COUNTY SPECIFICATIONS UNLESS OTHERWISE NOTED BY THE COUNTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND REMOVAL OF DEBRIS AND RUBBISH FROM PREMISES.
- SPACING FOR PLANTS ARE AVERAGE SPACINGS. PLANTS SHALL BE INSTALLED IN CLUMPS/GROUPINGS AS DIRECTED BY THE COUNTY OR A DESIGNATED REPRESENTATIVE.
- EACH AQUATIC PLANT SPECIE WILL BE REPRESENTED BY COUNTY-SELECTED SAMPLES. ALL PLANT MATERIAL NOT MEETING THE REPRESENTATIVE SAMPLE SIZE AND QUANTITY SHALL BE REJECTED AT THE SITE.
- CONTRACTOR SHALL SUPPLY SEPARATE AS-BUILT DRAWINGS FOR BOTH EARTHWORK (GRADING) AND PLANTING (PLANTING ZONES AND VEGETATION) DIRECTLY AFTER COMPLETION OF GRADING AND PLANTING.
- NURSERY SOURCE SHALL BE WITHIN A 50-MILE RADIUS OF PROJECT SITE.

CONSERVATION EASEMENT SITE SIGN DETAILS



CONSERVATION EASEMENT SITE SIGN DETAILS

PAY ITEM NO. 700-1-11, 8 AS. REQUIRED

EPC'S MONITORING & MAINTENANCE NOTES

STANDARDS FOR WETLAND TREES

HEIGHT	1 GALLON	3 GALLON	7 HEIGHT
CALIPER (MIN)	<18"	18-36"	40-72"
CROWN (MIN)	<14"	17-4"	316"
TIME IN CONTAINER (MIN)	60 DAYS	90 DAYS	90 DAYS

STANDARDS FOR WETLAND SHRUBS

HEIGHT	1 GALLON	3 GALLON
SEEDLING	6-12"	15-24"
TIME IN CONTAINER (MIN)	45 DAYS	60 DAYS

ROOTS ARE TO BE FULLY ROOTED IN POT BUT NOT ROOT-BOUND

STANDARDS FOR WETLAND HERBS

HEIGHT	2 INCH POT	4 INCH POT	1 GALLON
TIME IN CONTAINER (MIN)	FULLY ROOTED	FULLY ROOTED	FULLY ROOTED
ROOTS ARE TO BE FULLY ROOTED IN POT BUT NOT ROOT-BOUND	60 DAYS	90 DAYS	90 DAYS

- A MITIGATION COMPLETION REPORT TO INCLUDE DETAILS OF THE MITIGATION AREA, SHALL BE SUBMITTED TO THE EPC STAFF WITHIN 30 DAYS OF COMPLETING CONSTRUCTION AND PLANTING OF THE MITIGATION AREA. IF THE MITIGATION INVOLVES WETLAND CREATION, AN AS-BUILT SURVEY MUST BE SUBMITTED WHICH INCLUDE REPRESENTATIVE ELEVATIONS OF THE BOTTOM AND SLOPES OF THE CREATION AREA. A CONTOUR LINE WITHIN 0.1' OF THE UPPER DESIGN ELEVATION (TYPICALLY SEASONAL HIGH WATER) SHALL BE DEPICTED ON THE SURVEY. USING THE POLYGON FORMED BY THE UPPER ELEVATION CONTOUR, THE AS-BUILT ACREAGE OF THE MITIGATION AREA(S) SHALL BE CALCULATED AND REPORT ON THE SURVEY. UPON EPC INSPECTION AND APPROVAL OF THE MITIGATION AREAS, THE MONITORING PROGRAM SHALL BE INITIATED.

- SEMI-ANNUAL MONITORING ALONG WITH ASSOCIATED MONITORING REPORTS AND MAINTENANCE IS REQUIRED FOR A MINIMUM OF THREE YEARS FOR HERBACEOUS/SHRUB SYSTEMS AND FIVE YEARS FOR FORESTED SYSTEMS. MONITORING REPORTS MUST BE SUBMITTED TO EPC STAFF WITHIN 30 DAYS FOLLOWING EACH MONITORING EVENT. AT A MINIMUM, MONITORING REPORTS SHOULD ADDRESS:
 - DATE PLANTED AND NUMBER OF PLANTED MATERIALS USED;
 - SOIL STABILIZATION MEASURES USED
 - PERCENT SURVIVAL OF PLANTED SPECIES;
 - NUMBER OF PLANTS TAGGED TO MONITOR TREE GROWTH RATE AND DBH (FORESTED SYSTEMS);
 - 20-25% OF TREES TAGGED TO MONITOR TREE GROWTH RATE AND DBH (FORESTED SYSTEMS);
 - WATER QUALITY:
 - VISUAL OBSERVATIONS OF WATER QUALITY
 - LAB DATA IF NECESSARY, (SALINITY, CONDUCTIVITY, PH, ETC.);
 - DESIRABLE WETLAND SPECIES COVER;
 - PLANT DIVERSIFICATION AND NATURAL RECRUITMENT (LIST SPECIES PRESENT);
 - DEPTH OF WATER AT MONITORING EVENT;
 - PERMANENTLY MARKED PHOTO STATIONS;
 - WILDLIFE USAGE;
 - OVERALL ECOLOGICAL EVALUATION;
 - PROBLEMS ENCOUNTERED AND CORRECTIVE ACTIONS IMPLEMENTED OR NEEDED.

- THE REMOVAL AND CONTROL OF NUISANCE OR EXOTIC SPECIES IS REQUIRED. NUISANCE SPECIES COVERAGE MUST NOT EXCEED FIVE PERCENT (5%) (CEASAR WEED (URECA LOBATA), BRAZILIAN PEPPER (SCHIENUS TEREBINTHIFOLIUS), AIR POTATO (DIOSCOREA BULBIFERA), EAR POD THREE (VENTERLOBIDUM CONTORTISILIQUM), CATTAILS (TYPHA SPP.), PRINROSE WILLOW (UDUWIGIA PERUVIANA), DOGFENNEL (EUPATORIUM SPP.); SESBANIA SPP. AND WATER HYACINTHS (EICHORNIA SPP.) ARE EXAMPLES OF NUISANCE SPECIES BUT NOT THE REPRESENT A COMPREHENSIVE LIST.

- EIGHTY-FIVE PERCENT (85%) SURVIVAL MUST BE GUARANTEED FOR EACH PLANTED TREE AND SHRUB SPECIES. FIFTY PERCENT (50%) COVER WITH DESIRABLE NATIVE WETLAND SPECIES MUST BE ACHIEVED AT THE END OF YEAR 1. SEVENTY PERCENT (70%) AT YEAR 2 AND EIGHTY-FIVE PERCENT (85%) PRIOR TO RELEASE. ANNUAL REPLANTING IS REQUIRED IF THESE CRITERIA ARE NOT MET.

- THE PLANT SOURCE MUST BE INCITED (I.E. CERTIFIED NURSERY GROWN, BARE ROOT, TRANSPORTED FROM ON SITE). IF COLLECTED PLANTS ARE TO BE USED, DONOR SITES MUST BE IDENTIFIED AND APPROVED BY THE EPC STAFF.

- THE MITIGATION WORK MUST BE COMPLETED, ALONG WITH THE SUBMITTAL OF THE MITIGATION COMPLETION REPORT, WITHIN 180 DAYS OF THE INITIAL WETLAND IMPACT. MONITORING AND MAINTENANCE MUST CONTINUE UNTIL ALL EPC SUCCESS CRITERIA HAVE BEEN MET, AT WHICH TIME A CERTIFICATE OF COMPLETION IS ISSUED. IF SUCCESS CRITERIA CANNOT BE MET, RECONSTRUCTION OF THE MITIGATION SITE MAY BE NECESSARY TO ACHIEVE FUNCTIONING WETLANDS.

NO.	DATE	REVISIONS DESCRIPTION	APPROVED

JAMES W. JOHNSTON, P.E.
 P.E. License Number 57064
 5428 Bay Center Drive, Suite 400
 Tampa, FL 33608-3444
 Certificate of Authorization 4213



CITY OF PLANT CITY
 PUBLIC WORKS DIVISION
 DRAWN BY: N. LOPEZ
 CHECKED BY: C. MESSEKOPF
 SUPERVISED BY: THOMAS A. QUINN, P.E.
 PLANT CITY, FLORIDA 33563
 (813) 257-9288

DESIGNED BY:	DATE	APPROVED BY:
B. LENZ	10/16	JAMES W. JOHNSTON, P.E.
N. LOPEZ	10/16	THOMAS A. QUINN, P.E.
C. MESSEKOPF	10/16	ENGINEER

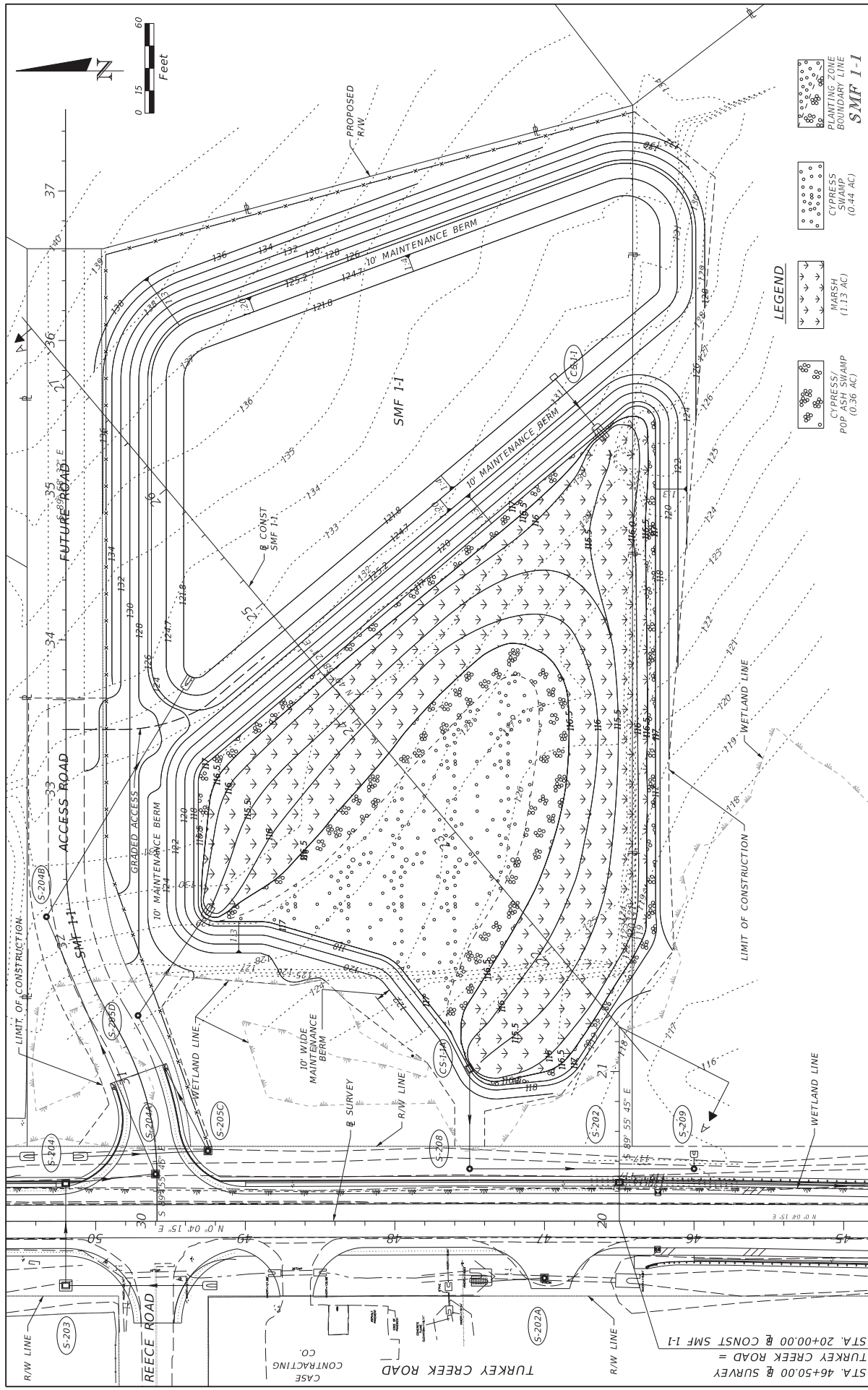
TURKEY CREEK ROAD
MITIGATION SITE DETAILS (1)
MITIGATION NOTES
 1/25/2017 3:18:53 AM P:\NOV5868\C000297\03\000000000033898\1300_C\00\131501501501\GENERAL\00001.DWG

CUT P NO.	SHEET NO.
69625	89
69601.408	69601.413



U.S. ARMY CORPS OF ENGINEERS
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03/2017

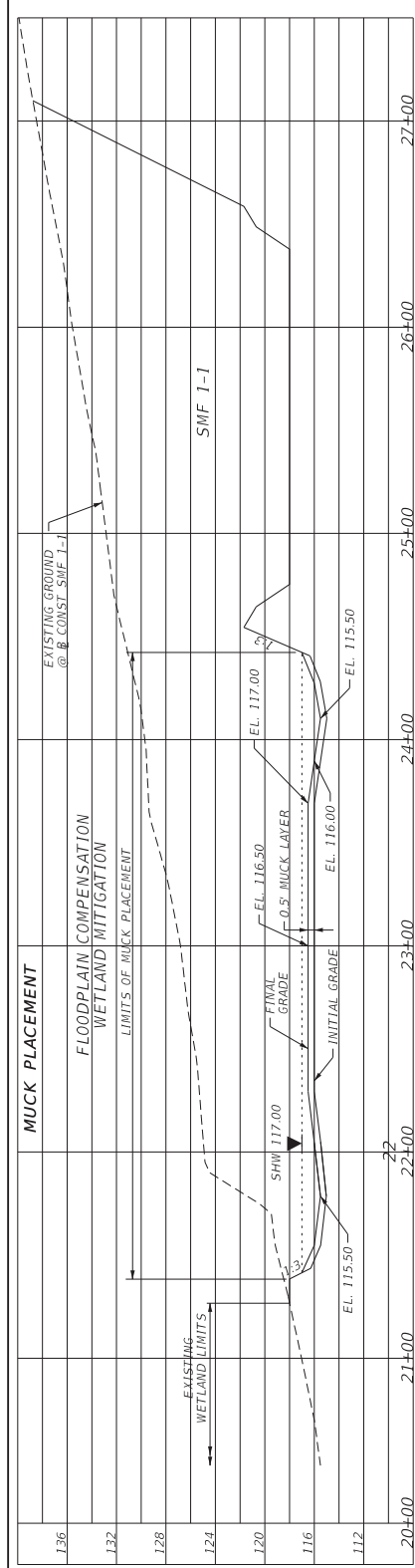


NO.	DATE	REVISIONS DESCRIPTION	APPROVED

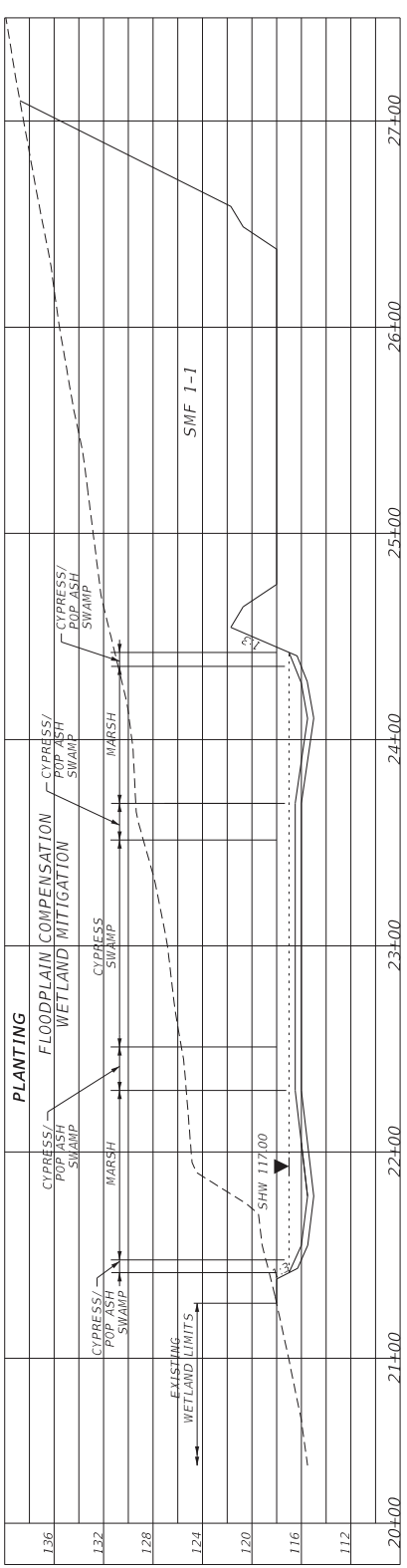
STA A. 46+50.00 SURVEY TURKEY CREEK ROAD = STA 20+00.00 CONST SMF I-1	CASE CONTRACTING CO.	REECE ROAD ACCESS ROAD FUTURE ROAD TURKEY CREEK ROAD	10' MAINTENANCE BERM 10' WIDE MAINTENANCE BERM GRADED ACCESS BERM PROPOSED R/W WETLAND LINE LIMIT OF CONSTRUCTION R/W LINE SURVEY B. CONST SMF I-1 CYPRESS SWAMP MARSH CYPRESS SWAMP SMF I-1	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33563 (813) 257-9288	DESIGNED BY: B. LENZ DRAWN BY: N. LOPEZ CHECKED BY: C. MESSEKOPF SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16 APPROVED BY:	NAME: JAMES W. JOHNSTON, P.E. P.E. License Number 27064 5428 Bay Center Drive, Suite 400 Tampa, FL 33608-3444 Certificate of Authorization 4213	CITY OF PLANT CITY PUBLIC WORKS DIVISION 302 W. RETFOLDS ST PLANT CITY, FLORIDA 33563 (813) 257-9288	MITIGATION SITE DETAILS (2) PLANTING PLAN	TURKEY CREEK ROAD SMF I-1	SHEET NO. 90 CLIP NO. 69625 69601.408 69601.413
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SECTION A-A



SECTION A-A

PLANTING NOTES:

WETLAND CREATION AREAS	EL.	SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
CYPRESS/POP SWAMP	116.5	TA	79	TAXODIUM ASCENDENS	POND CYPRESS	3 GAL., 10" O.C., 4' TO 6' HT.
		FC	79	FRAXINUS CAROLINIANA	POP ASH	3 GAL., 10" O.C., 4' TO 6' HT.
		CO	157	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3 GAL., 10" O.C. 18" HT.
MARSH	116.5 TO 115.5	PC	2735	PONTERERIA CORDATA	PICKERELWEED	1 GAL. OR BARE ROOT, 3" O.C. 3-5 PETIOLES, LOWER ELEVATIONS
		PH	2735	PANICUM HEMITOMON	MAIDENCANE	1 GAL., 3" O.C., HIGHER ELEVATIONS
CYPRESS SWAMP	116.5	TA	192	TAXODIUM ASCENDENS	POND CYPRESS	3 GAL., 10" O.C.
		CO	192	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3 GAL., 10" O.C. 18" HT.

SCALE: 1" = 60' HORIZ.
1" = 10' VERT.

SMF 1-1

NO.	DATE	REVISIONS DESCRIPTION	APPROVED	TURKEY CREEK ROAD	CITY OF PLANT CITY PUBLIC WORKS DIVISION 392 W. REYNOLDS ST PLANT CITY, FLORIDA 33663 (813) 257-9288	DESIGNED BY: B. LENZ DRAWN BY: N. LOPEZ CHECKED BY: C. MESSEKOPPE SUPERVISED BY: THOMAS A. QUINN, P.E.	DATE: 10/16	APPROVED BY: JAMES W. JOHNSTON, P.E.	MITIGATION SITE DETAILS (5) PLANTING PLAN	CLIP NO.: 69625 69601.408 69601.413	SHEET NO.: 91
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JAMES W. JOHNSTON, P.E.
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5428 Bay Center Drive, Suite 400
Tampa, FL 33606-3444
Certificate of Authorization 4213



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