PROJECT CONTROL

SURVEY LINE S.R. 45 / NEBRASKA AVENUE AND SURVEY LINE TWIGGS STREET SECTIONS 18 AND 19, TOWNSHIP 29 SOUTH, RANGE 19 EAST SECTIONS 13 AND 24, TOWNSHIP 29 SOUTH, RANGE 18 EAST

HILLSBOROUGH COUNTY, FLORIDA

F.O.S. / P.O.T. STA. 118+11.00

°° >

45/

-Curve C1

19

SE 20

180 N 21° 🖎 твм 1

B.O.S. / P.O.T. STA. 98+42.50

P.O.T. STA. 108+26.75

P.I. STA. 106+46.41

P.C. STA. 106+01.79

TBM 4

Q18 (·)

твм 6

Curve C2

- PROJECT CONTROL NOTES
- 1. PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, OF THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD 83/2011) AS ESTABLISHED FROM FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) CONTROL "10-13-E02" (FPID 428968-1) AND NATIONAL GEODETIC SURVEY (NGS) CONTROL "Q18" (PID AG6038).
- 2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLILSHED FROM FDOT BENCHMARK "10-13-E02" (FPID 428968-1) AND NGS BENCHMARK "Q18" (PID
- 3. PROJECT UNITS : US SURVEY FEET
- 4. FIELD BOOK REFERENCES: FIELD BOOKS 0037847 AND 0037980
- 5. ELECTRONIC DATABASE : GEOPAK: "JOB45.GPK"
- 6. SURVEY LINE IS BASED ON FDOT RIGHT-OF-WAY CONTROL SURVEY SECTION 10040-1537.
- 7. RIGHT OF WAY LINES FOR THIS PROJECT ARE BASED ON FDOT RIGHT-OF-WAY CONTROL SURVEY SECTION 10040-1265, AND TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY (THEA) SECTION 10002-2520-010.
- 8. THIS SHEET NOT COMPLETE WITHOUT SHEETS CTL-1 THROUGH CTL-4.

LEGEND

= DELTA= POINT OF TANGENCY B.O.S. = BEGINNING OF SURVEYP.O.T. = POINT ON TANGENT $E.O.S. = END \ OF \ SURVEY$ = RADIUS = DEGREE OF CURVATURE RT = RIGHT

= ARC LENGTH S.R. = STATE ROAD LB = LICENSED BUSINESS STA= STATION = TANGENT

= POINT OF CURVATURE = POINT OF INTERSECTION

= NAIL AND DISK • = CONCRETE MONUMENT = STAMPED DISK

NOTE: ITEMS IN QUOTATION " " ARE STAMPED ON CAP OR DISK

ER JOHN MAX icense Numbe 6290 STATE OF FLORIDA Surveyor твм 7

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ELEMENT ENGINEERING GROUP T713 E. 9th AVENUE TAMPA, FL 33605 CERTIFICATE OF AUTHORIZATION LB7831 PETER JOHN MATTSON, PSM. NO. 6290

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS: CTL-1 THROUGH CTL-4 IN ACCORDANCE WITH RULE 5J-17, F.A.C.

	REVIS	SIONS		Datas I Mattern DCM
DATE	DESCRIPTION	DATE	DESCRIPTION	Peter J. Mattson, PSM Florida License No. 629
				Element Engineering Gr
				1713 E. 9th Avenue
				Tampa, FL 33605
				Certificate of Authoriza

твм з 🏡

Curve C1

T = 44.62

L = 88.19

TBM 5 S

R = 234.89

P.I. STA. 106+46.41

 $\Delta = 21^{\circ} 30' 38" (RT)$

P.C. STA. 106+01.79

P.T. STA. 106+89.98

 $D = 24^{\circ} 23' 33"$

Curve C2

T = 76.87'

L = 151.93'

R = 405.38

TBM 2

TWIGGS STREET SURVEY LINE N 69° 00' 41" E

P.I. STA. 104+25.16 S.R. 45 SURVEY LINE

P.I. STA. 18+65.00 TWIGGS SURVEY LINE

P.I. STA 23+62.90

 $D = 14^{\circ} 08' 02"$

P.C. STA.22+86.04

P.T. STA.24+37.96

 $\Delta = 21^{\circ} 28' 23'' (RT)$

Group zation LB7831

TAMPA - HILLSBOROUGH COUNTY EXPRESSWAY AUTHORITY ROAD NO. COUNTY TWO NO.2 PROJECT ID HILLSBOROUGH 62787-DS-242

PROJECT CONTROL

NO. CTL-1

SHEET

10-13-E02∅

R:\PROJECTS\PUBLIC\S-HNTB1801-02 (THEA Twiggs)\SURVEY\CTLSRD01.dgr

PROJECT CONTROL

SURVEY LINE S.R. 45 / NEBRASKA AVENUE AND SURVEY LINE TWIGGS STREET SECTIONS 18 AND 19, TOWNSHIP 29 SOUTH, RANGE 19 EAST SECTIONS 13 AND 24, TOWNSHIP 29 SOUTH, RANGE 18 EAST HILLSBOROUGH COUNTY, FLORIDA

SURVEY LINE CONTROL STATE ROAD 45/NEBRASKA AVENUE

STATION	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	LATTITUDE	LONGITUDE	DESCRIPTION
BOS 98+42.50	1314900.5133	510773.8598	N/A	27°57'08.63298"	82°27'02.24777"	FOUND NAIL AND DISK "LB 6839"
P.I. 104+25.16	1315443.9349	510563.6676	N/A	27°57'06.42858"	82°27'03.64767"	NO POINT FOUND OR SET
P.C. 106+01.79	1315608.6771	510499.9463	N/A	27°57'08.05751"	82°27'04.54620"	SET NAIL & DISK "ELEMENT LB 7831"
P.I. 106+46.41	1315650.2905	510483.8505	N/A	27°57'07.54714"	82°27'08.11750"	FOUND NAIL AND DISK "URS LB 6889"
P.T. 106+89.98	1315694.9075	510484.1343	N/A	27°57'08.91077"	82°27'04.54487"	SET NAIL AND DISK "ELEMENT LB 7831"
P.O.T. 108+26.75	1315831.6808	510485.0041	N/A	27°57'10.26511"	82°27'04.54081"	SET NAIL AND DISK "ELEMENT LB 7831"
E.O.S. 118+11.00	1316815.9076	510491.2637	N/A	27°57'20.01103"	82°27'04.51152"	SET NAIL AND DISK "ELEMENT LB 7831"

SURVEY LINE CONTROL TWIGGS STREET

STATION	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	LATTITUDE	LONGITUDE	DESCRIPTION	
B.O.S./P.O.T. 10+00.00	1315134.1063	509756.0592	N/A	27°57'03.33111"	82°27'12.64043"	SET NAIL AND DISK "ELEMENT LB 7831"	7
P.I. 18+65.00	1315443.9349	510563.6676	N/A	27°57'06.42858"	82°27'03.64767"	NO POINT FOUND OR SET	7
P.O.T. 20+00.00	1315492.2896	510689.7104	N/A	27°57'06.91198"	82°27'02.24417"	SET NAIL AND DISK "ELEMENT LB 7831"	7
P.C. 22+86.04	1315594.7429	510956.7682	N/A	27°57'07.93620"	82°26'59.27043"	SET NAIL AND DISK "ELEMENT LB 7831"	7
P.I. 23+62.90	1315622.2748	511028.5337	N/A	27°57'07.54714"	82°27'08.11750"	SET NAIL AND DISK "ELEMENT LB 7831"	1
P.T. 24+37.96	1315621.6248	511105.3965	N/A	27°57'08.20780"	82°26'57.61418"	SET NAIL AND DISK "ELEMENT LB 7831"	1
E.O.S. 34+49.58	1315613.0704	512116.9759	N/A	27°57'08.15979"	82°26'46.33374"	SET NAIL AND DISK "ELEMENT LB 7831"	1

VERTICAL CONTROL

CONTROL POINTS	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	LATTITUDE	LONGITUDE	SURVEY STATION	OFFSET	DESCRIPTION
TBM 1	1315666.1	510690.0	21.990'	27°57'08.63298"	82°27'02.24777"	105+86.8 (SR 45)	198.0' RT	SET NAIL AND DISK "TRAV. PT. LB 7831"
TBM 2	1315558.4	510163.2	21.289'	27°57'07.54714"	82°27'08.11750"	106+32.5 (SR 45)	337.1' LT	FOUND NAIL AND DISK "HEIDT LB 148"
TBM 3	1314862.0	510756.6	22.137'	27°57'00.67316"	82°27'01.47215"	98+12.8 (SR 45)	30.0' LT	SET NAIL AND DISK "TRAV. PT. LB 7831"
TBM 4	1316504.1	510533.7	22.028'	27°57'16.92559"	82°27'04.02583"	114+99.5 (SR 45)	44.4' RT	SET NAIL AND DISK "TRAV. PT. LB 7831"
TBM 5	1315085.1	509737.5	21.427'	27°57'02.84522"	82°27'12.84566"	9+65.1 (TWIGGS)	39.1' RT	SET NAIL AND DISK "TRAV. PT. LB 7831"
TBM 6	1315924.5	511221.5	16.778'	27°57'11.21087"	82°26'56.33185"	25+51.5 (TWIGGS)	303.8' LT	SET NAIL AND DISK "TRAV. PT. LB 7831"
TBM 7	1315591.2	512248.3	7.872'	27°57'07.94757"	82°26'44.86872"	35+81.1 (TWIGGS)	20.8' RT	SET NAIL AND DISK "TRAV. PT. LB 7831"

HORIZONTAL CONTROL

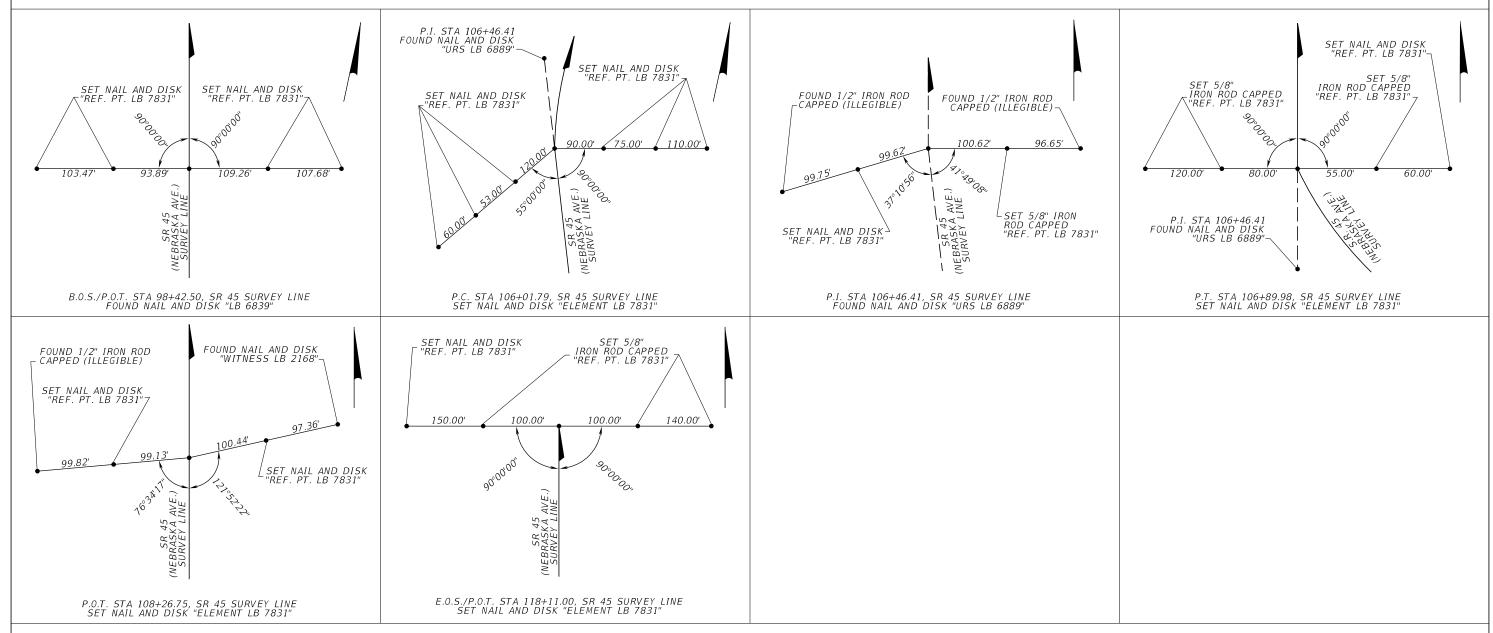
CONTROL POINTS	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	LATTITUDE	LONGITUDE	SURVEY STATION	OFFSET	DESCRIPTION
Q18	1317808.1400	512276.4600	17.270'	27°57'29.90080"	82°26'44.64461"	128+14.57 (SR 45)	1778.85' RT	FOUND 8"X8" CONCRETE MONUMENT WITH BRASS USC&GS DISK "Q18 1933"
10-13-E02	1315030.2704	512368.3557	9.346'	27°57'02.39805"	82°26'43.50693"	93+88.31 (SR 45)	1533.94' RT	FOUND BRASS FDOT DISK IN CONCRETE SIDEWALK "10 13 E02 GPS"

	REVI	SIONS		Peter J. Mattson, PSM	T.4	MPA - HILLSBOROU	ICH COUNTY	
DATE	DESCRIPTION	DATE	DESCRIPTION	Florida License No. 6290	121	EXPRESSWAY AUT		
				Element Engineering Group				_
				1713 E. 9th Avenue	ROAD NO.	COUNTY	TWO NO.2 PROJECT ID	╛
				Tampa, FL 33605 Certificate of Authorization LB7831	SR 45	HILLSBOROUGH	62787-DS-242	

PROJECT CONTROL

SHEET NO. CTL-2 NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE

SR 45 / NEBRASKA AVENUE SURVEY LINE REFERENCES



LEGEND

AVE. = AVENUE B.O.S. = BEGINNING OF SURVEY

= BEGINNING OF SORVET = END OF SURVEY = FLORIDA DEPARTMENT OF TRANSPORTATION = POINT OF CURVATURE = POINT OF INTERSECTION

= POINT OF TANGENCY

P.O.T. = POINT ON TANGENT

SR STA = STATE ROAD

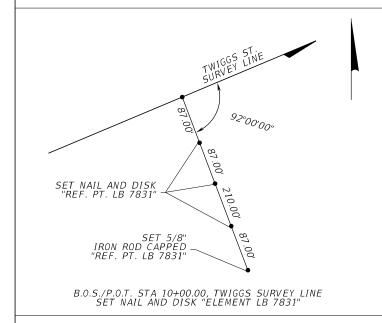
= STATION

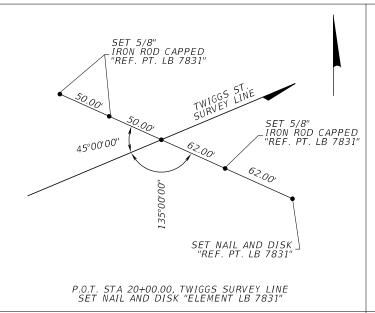
= STREET

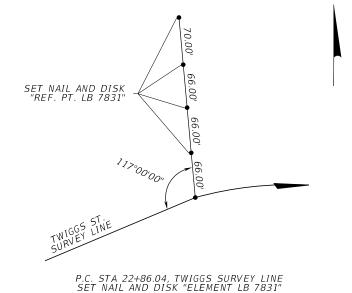
NOTE: ITEMS IN QUOTATION " " ARE STAMPED ON CAP OR DISK

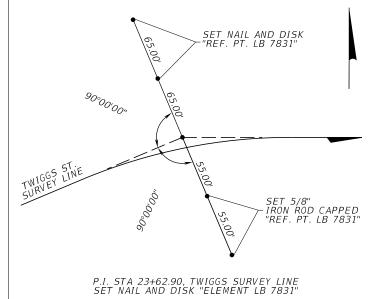
Florida License No. 6290 Element Engineering Group 1713 E. 9th Avenue Tampa, FL 33605 Florida License No. 6290 EXPRESSWAY AUTHORITY ROAD NO. COUNTY TWO NO.2 PROJECT ID PROJECT CONTROL OTHER PROJECT CONTROL	REVISIONS	Peter J. Mattson, PSM	TA	MDA - HILLSDODOL	IICH COUNTY			SHEET
1713 E. 9th Avenue Tampa, FL 33605 To the second of the se	DESCRIPTION DATE DESCRIPTION	Florida License No. 6290	1212					NO.
Tampa, FL 33605			ROAD NO.	COUNTY	TWO NO.2 PROJECT ID] PRC	OJECT CONTROL	
Certificate of Authorization 257-551			SR 45	HILLSBOROUGH	62787-DS-242			CTL-3

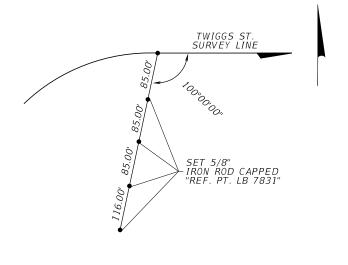
TWIGGS STREET SURVEY LINE REFERENCES



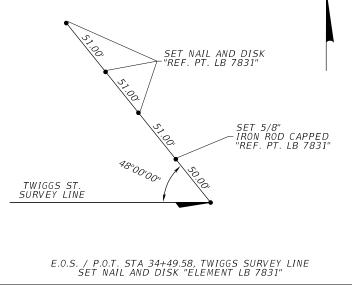








P.T. STA 24+37.96, TWIGGS SURVEY LINE SET NAIL AND DISK "ELEMENT LB 7831"



LEGEND

AVE. = AVENUE

B.O.S. = BEGINNING OF SURVEY

E.O.S. = END OF SURVEY

FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION

P.C. = POINT OF CURVATURE

P.I. = POINT OF INTERSECTION

= POINT OF TANGENCY

P.O.T. = POINT ON TANGENT

SR STA = STATE ROAD

= STATION = STREET

NOTE: ITEMS IN QUOTATION " " ARE STAMPED ON CAP OR DISK

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DATE	DESCRIPTION	DATE	DESCRIPTION]
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Peter J. Mattson, PSM Florida License No. 6290 Element Engineering Group 1713 E. 9th Avenue Tampa, FL 33605 Certificate of Authorization LB7831

TAMPA - HILLSBOROUGH COUNTY EXPRESSWAY AUTHORITY								
ROAD NO.	COUNTY	TWO NO.2 PROJECT ID						
SR 45	HILLSBOROUGH	62787-DS-242						

PROJECT CONTROL

SHEET NO.

CTL-4

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