CONTRACT PLANS COMPONENTS

ROADWAY PLANS SIGNING AND PAVEMENT MARKING PLANS SIGNALIZATION PLANS LIGHTING PLANS LANDSCAPE PLANS

INDEX OF SIGNALIZATION PLANS

CUEET DECCRIPTION

SHEET NO.	SHEEL DESCRIPTION
T - 1	KEY SHEET
T - 2	SIGNATURE SHEET
T - 3	TABULATION OF QUANTITIES
T - 4	PROJECT LAYOUT
T - 5	GENERAL NOTES
T-6 - T-10	SIGNALIZATION PLAN
T - 11	MAST ARM TABULATION
T - 12	STANDARD MAST ARM DATA TABLE
T - 13	PEDESTAL MOUNTED SIGNAL SHALLOW FOUNDATION DETAIL
T - 14	SPECIAL DETAILS
T - 15	SERVICE POINT DETAIL
T - 16	CONCRETE SLAB DETAIL

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

SIGNALIZATION PLANS

FINANCIAL PROJECT ID 429576-3-52-01, 429576-3-52-02, & 429576-3-52-03 (FEDERAL FUNDS) BROWARD COUNTY (86100, 86110) STATE ROAD NO. 7 (US 441) TRANSIT CORRIDOR IMPROVEMENTS GROUP/PRIORITY 2

PROJECT LOCATION URL: https://tinyurl.com/mkurv3cb

PROJECT LIMITS:

BEGIN MP 6.462 - END MP 8.105

EXCEPTIONS:

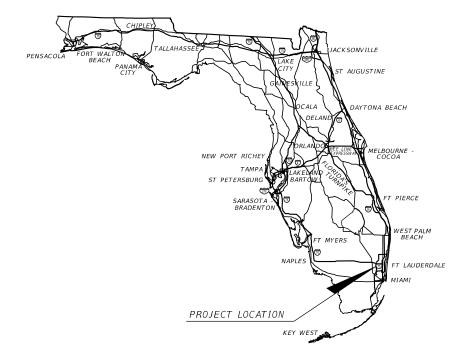
NONE

BRIDGE LIMITS:

NONE

RAILROAD CROSSING:

NONE



SIGNALIZATION PLANS ENGINEER OF RECORD:

JOSE A LOPEZ P.E.
P.E. LICENSE NUMBER 81014
HBC ENGINEERING COMPANY
8935 NW 35TH LANE, SUITE 201
DORAL, FL 33172
PHONE (305) 232-7932 FAX (305) 232-7933
CONTRACT NO. CA133
VENDOR NO. 223936061

FDOT PROJECT MANAGER:

ROBERT LOPES, P.E.

CONSTRUCTION	FISCAL	SHEET
CONTRACT NO.	YEAR	NO.
T 4712	25	T-1

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: https://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2024-25 Standard Specifications for Road and Bridge Construction at the following website: https://www.fdot.gov/programmanagement/Implemented/SpecBooks



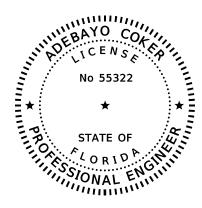
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201 DORAL, FL. 33172 JOSE A. LOPEZ, P.E. NO. 81014

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

SHEET NO. SHEET DESCRIPTION T - 1 KEY SHEET T - 2 SIGNATURE SHEET T - 3 TABULATION OF QUANTITIES PROJECT LAYOUT T - 4 T - 5 GENERAL NOTES T-6 - T-10 SIGNALIZATION PLAN MAST ARM TABULATION T - 11 T - 14 SPECIAL DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY.

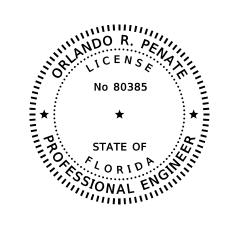
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201 DORAL, FL. 33172 ADEBAYO COKER, P.E. NO. 55322

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

SHEET NO. SHEET DESCRIPTION

STANDARD MAST ARM DATA TABLE T - 12PEDESTAL MOUNTED SIGNAL SHALLOW FOUNDATION DETAIL T-13 CONCRETE SLAB DETAIL T-16



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. HRC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201 DORAL, FL. 33172 ORLANDO R. PENATE, P.E. NO. 80385

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

SHEET NO. SHEET DESCRIPTION

T - 2 SIGNATURE SHEET T - 15 SERVICE POINT DETAIL

REVISIONS DESCRIPTION DESCRIPTION DATE DATE

HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172 PHONE: (305) 232-7932 FAX: (305) 232-7933 ENGINEER OF RECORD: JOSE A. LOPEZ, P.E. P.E. LICENSE NUMBER 81014

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 429576-3-52-01 SR 7 BROWARD

SHEET NO. SIGNATURE SHEET

T - 2

TABULATION OF QUANTITIES TOTAL SHEET NUMBERS GRAND THIS ITEMDESCRIPTION UNIT TOTALSHEET T - 7 T - 8 T - 9 T - 10 NO. PLAN | FINAL | PLAN 0630-2-11 CONDUIT, FURNISH & INSTALL, OPEN TRENCH 607 CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE 304 219 72 0630-2-12 1 F 465 141 1201 1201 0632-7-1 SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL PΙ 0633-6 FIBER OPTIC CABLE LOCATOR DΑ 409 409 0635-2-11 PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE EΑ 40 PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE 0635-2-12 EΑ 0639-1-122 ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR AS ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER NOT REQUIRED 0639-1-123 AS 0639-2-1 ELECTRICAL SERVICE WIRE, FURNISH & INSTALL LF 296 871 1167 1167 0641-2-12 PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE EΑ PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - PEDESTAL/SERVICE POLE 0641-2-60 EΑ ALUMINUM SIGNALS POLE, PEDESTAL EΑ 0646-1-11 11 0646-1-60 ALUMINUM SIGNALS POLE, REMOVE EΑ STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40' 0649 21 3 EΑ 0650 1 14 VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY AS PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY 10 0653-1-11 AS 0653-1-12 PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS AS PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN AS 0653-1-60 MIDBLOCK CROSSWALK: REC RAPID FLASHING BEACON, FURNISH/INSTALL- SOLAR, SIGN ASSEMBLY- BACK-BACK 0654-2-28 AS ACCESSIBLE DETECTOR 0665-1-11 PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD EΑ 12 12 PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE 0665-1-12 EΑ 0665-1-60 PEDESTRIAN DETECTOR, REMOVE- POLE/PEDESTAL TO REMAIN EΑ TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070 0670 5140 0671-2-40 TRAFFIC CONTROLLER, MODIFY AS

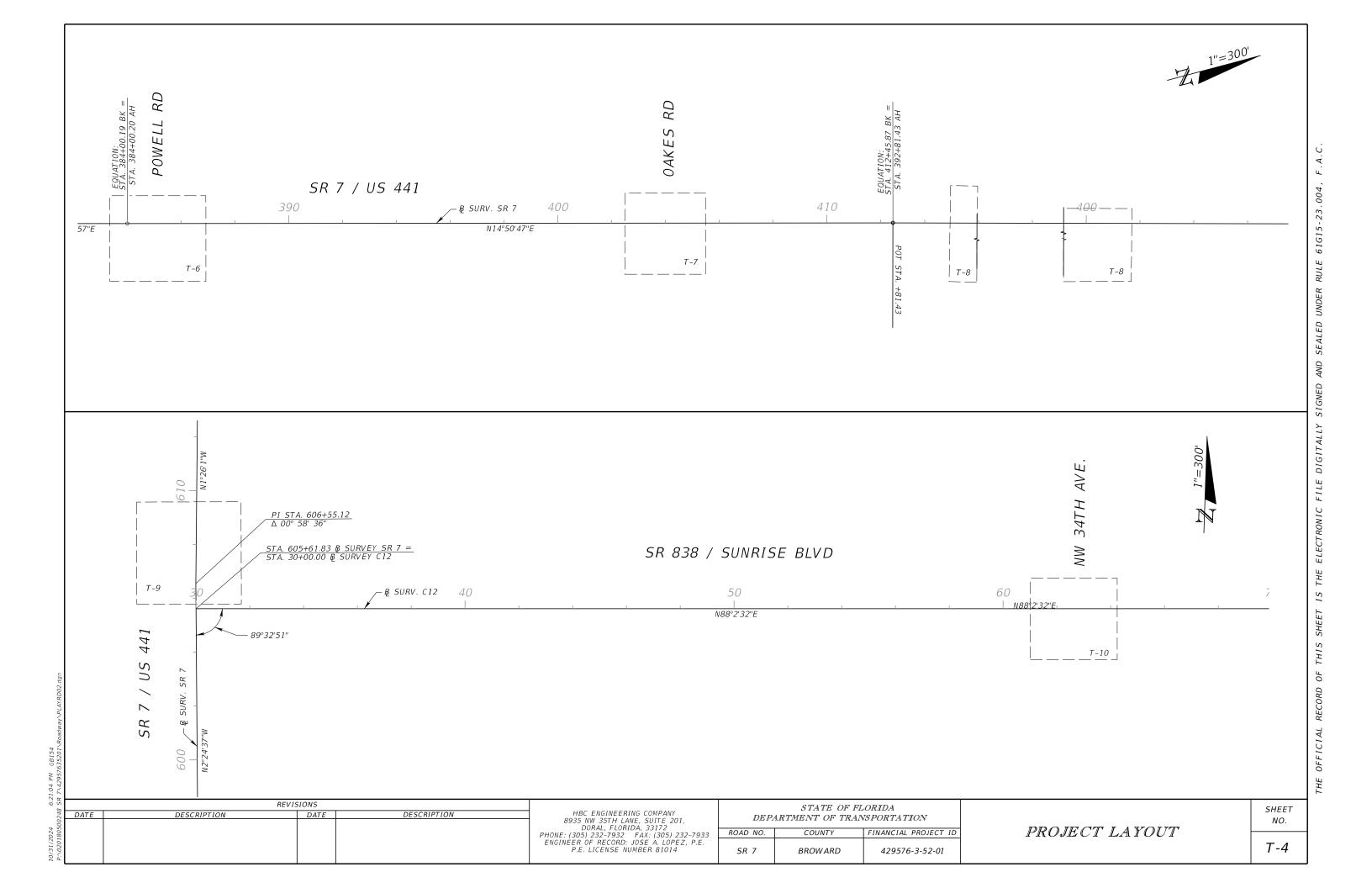
PAY ITEM NOTE:

636-1-122 INCLUDES THE CONTRACTOR COORDINATION WITH FPL ENGINEERS FOR THE INSTALLATION OF THE FPL RISER WHICH INCLUDES THE CONNECTION FEE

	TABULATION OF QUANTITIES												
PAY ITEM NO. DESCRIPTION UNIT SHEET NUMBERS TOTAL THIS SHEET 28* 29* 30* 31* 32* 33* 34* 35* 36* SHEET							GRAND TOTAL						
100.			PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FI	NAL PLAN FINA	AL PLAN FINAL	PLAN FINAL				
0635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	3	5	7	4	1	9	1	1	6	37	77
0635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1	3	1	1	2	1			1	10	1 1

* SEE ROADWAY PLANS

	REVIS	SIONS			STATE OF FLORIDA			
DATE	DESCRIPTION	DATE	DESCRIPTION	HBC ENGINEERING COMPANY	DEPARTMENT OF TRANSPORTATION			
				8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172	DISTINCT OF TRUITS OR TITLE			
				PHONE: (305) 232-7932 FAX: (305) 232-7933	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				ENGINÈER OF RECORD: JOSE À. LÓPEZ, P.E. P.E. LICENSE NUMBER 81014	SR 7	BROWARD	429576-3-52-01	ı



GENERAL NOTES (IMPROVEMENTS WITHIN BROWARD COUNTY ROW)

- 1. STATIONS AND OFFSETS SHOWN ON SHEETS T-6 TO T-9 ARE BASED ON \$ SURV. SR 7 AND SHEET T-10 ARE BASED ON \$ SURV. C12
- 2. FOR SHEETS T-6 TO T-9 THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED COMMUNICATIONS EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). PROVIDE SUBMITTAL DATA THAT IS COMPATIBLE WITH THE MAINTAINING AGENCY. PROVIDE THE MAINTAINING AGENCY'S REQUIRED EQUIPMENT AND VERIFY WITH THE MAINTAINING AGENCY PRIOR TO PURCHASING SUCH EQUIPMENT. BECOME FAMILIAR WITH AND COMPLY WITH BCTED'S INSPECTION PROCEDURES.
- 3. THE CONTRACTOR SHALL COORDINATE A FIELD MEETING WITH THE SIGNAL SUPERVISOR, PRIOR TO REMOVING ANY EXISTING EQUIPMENT, TO DETERMINE WHICH EQUIPMENT SHOULD BE DELIVERED TO BCTED. THE AGREED UPON EQUIPMENT SHALL BE DISASSEMBLED INTO THEIR COMPONENT PARTS, TAGGED AS TO LOCATION, PACKAGED AS NEEDED FOR PROTECTION FROM DAMAGE AND DELIVERED TO:

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 2300 WEST COMMERCIAL BLVD FORT LAUDERDALE, FL 33309

4. THE SIGNAL SUPERVISOR IS TO BE CONTACTED AT 954-847-2600 AT LEAST 48 HOURS PRIOR TO DELIVERY. WRITTEN ACKNOWLEDGEMENT OF EQUIPMENT RECEIPT SHALL BE OBTAINED FROM THE SIGNAL SUPERVISOR IN THE FORM OF A SIGNED RECEIPT BEARING THE CONTRACTOR'S LETTERHEAD. THIS ITEMIZED RECEIPT SHALL STATE THAT ALL OF THE EQUIPMENT REMOVED FROM EACH LOCATION WAS RETURNED TO BCTED IN GOOD CONDITION. THE CONTRACTOR SHALL PRESENT THE RECEIPT TO BCTED AT THE TIME OF SIGNAL INSPECTION. ABSENCE OF SUCH RECEIPT SHALL BE RECORDED ON THE PUNCH LIST AS AN ITEM TO BE CORRECTED PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

GENERAL NOTES (IMPROVEMENTS WITHIN BROWARD COUNTY ROW)

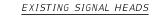
- 1. FOR SHEET T-9 THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED COMMUNICATIONS EQUIPMENT IS THE CITY OF LAUDERHILL. PROVIDE THE MAINTAINING AGENCY'S REQUIRED EQUIPMENT AND VERIFY WITH THE MAINTAINING AGENCY PRIOR TO PURCHASING SUCH EQUIPMENT.
- 2. PRIOR TO CONSTRUCTION ACQUIRE ALL REQUIRED PERMITS AND AGREEMENTS FROM THE CITY OF LAUDERILL.

GB154
0 6
6:21:06 PM GB154 SR 7\42957635201\simpals\GMNTSG0
10/31/2024 6:2 P:\020180500248 SR

	REVI	SIONS			STATE OF FLORIDA			
DATE	DESCRIPTION	DATE	DESCRIPTION	HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172 PHONE: (305) 232-7932 FAX: (305) 232-7933 ENGINEER OF RECORD: JOSE A. LOPEZ, P.E. P.E. LICENSE NUMBER 81014	DEP	NS PORTATION		
					10131	IMILITARITY OF THEM	VD1 C1(111111C1)	
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 7	BROWARD	429576-3-52-01	

GENERAL NOTES

SHEET NO.



T%| T¾| T¾|

5-SECT., 1-WAY

(TO REMAIN)

[2][4][6][8]

3-SECT., 1-WAY

(TO REMAIN)

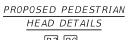
PED. SIGNAL ((TO REMAIN))

EXISTING PEDESTRIAN HEAD DETAILS





COUNT-DOWN 1-SECT., 1-WAY



P2 P8

PED. SIGNAL

234 LF 639-2-1 (TO BE REMOVED) EXIST. FPL POWER (G3) R/W LINE-PICK UP PNT

201 LF 630-2-12

1 EA 635-2-11

O ---

EXIST. DISCONNECT

N14°50'47"E

COUNT-DOWN 1-SECT., 1-WAY 3 AS 653-1-11

B SURVEY SR 7 PI STA. 384+00.19

PROP. SERVICE POINT DISCONNECT EXIST. CONTROLLER & METER CAN STA. 387+24.00 44.22' LT. (TO REMAIN) 385 [6] B SURVEY EQUATION: 386 B SURV. SR 7 384+00.19 (BK) = 384+00.20 (AH)387 $\Delta = 00^{\circ} \ 02' \ 10'' \ (LT)$

[8,4]

630-2-12 157 LF

RD

POWELL

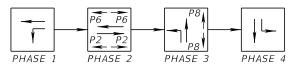
(1 PED. SIGNAL)

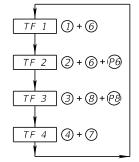
107 LF 630-2-12

[21]_{aki}

F6

EXISTING S.O.P.





EXISTING VIDEO DETECTION:

VIDEO DETECTION ZONE								
EXIST. VIDEO CAMERA	MOVEMENTS	ZONE						
V – 1	3, 8	VD 3-1	VD 8-1					
V-2	2	VD 2-1	VD 2-2					
	2	VD 2-3	VD 2-4					
V-3	7, 4	VD 7-1	VD 4-1					
V 4	1 6	VD 1-1	VD 6-1					
V-4	1, 6	VD 6-2	VD 6-3					

EXISTING SIGNAL TIMING:

CONTROLLER TIMINGS								
CONTROLLER PHASE	1	2	3	4	5	6	7	8
FACE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBL	NB	WBL	EB	NBL	SB	EBL	WB
INITIAL GREEN (MIN)	4	12	6	4	4	12	4	6
VEHICLE EXT. GAP	1.5	3	2	2	1.5	3	2	2
MAXIMUM GREEN I	12	50	20	12	12	50	12	20
MAXIMUM GREEN II								
YELLOW CLEARANCE	5	5	4	4	5	5	4	4
ALL RED CLEARANCE	2	2	2	2	2	2	2	2
PHASE RECALL	0FF	MIN	0FF	0FF	0FF	MIN	0FF	0FF
WALK								7
PED. CLEARANCE								29
PERMISSIVE								
FLASH OPERATION	YELLOW	YELLOW	RED	RED	YELLOW	YELLOW	RED	RED
GREEN RETURN								

VIDEO DETECTION ZONE									
EXIST. VIDEO CAMERA	MOVEMENTS	ZONE							
V – 1	3, 8	VD 3-1	VD 8-1						
V-2	2	VD 2-1	VD 2-2						
V -2	2	VD 2-3	VD 2-4						
V-3	7, 4	VD 7-1	VD 4-1						
V-4	1 6	VD 1-1	VD 6-1						
	1, 6	VD 6-2	VD 6-3						

EXIST. INTERNALLY ILLUMINATED SIGN

SR

EXIST. SIGN

(TO REMAIN)

R/W LINE

(G6)



FTP-68B-06

9"X18"

1 AS



PROPOSED SIGN PANELS

N14°50'47"E

////VP 2-1////

(////YP. 3-2'////

(////NP.2-3'////

(////yg.2-4/////

1 RUN (1 PED. SIGNAL)

PROP. PEDESTAL 384+42.7

630-2-11

635-2-11

646-1-11 665-1-11

STA.

9 LF

1 EA

1 EA

1 EA



9"X18"

2 AS

CONTROLLER ITEMS 2 EA 1 AS 62 LF 1 EA

CONTROLLER ITEMS

635-2-11 671-2-40

1 RUN (1 PED. SIGNAL) PROP. PED. PEDESTAL W/ SHALLOW FOUNDATION STA. 385+40.34 92.40' RT 630-2-11 635-2-11 1 EA 646-1-11 1 EA

1 EA

630-2-11 55 LF

665-1-11

646-1-60 1 EA

V////Y9.1-1////

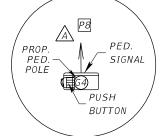
PROP. PEDESTAL STA. 385+87.02

630-2-11 11 LF

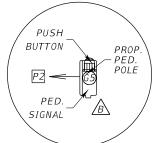
635-2-11 1 EA

646-1-11 1 EA 665-1-11 1 EA

81 14' RT



PUSH <u>/b\</u> BUTTON PROPPED.POLE PED. SIGNAL



EXISTING SIGNAL OPERATIONS:

- 1. MAJOR STREET IS S.R. 7/U.S. 441 MINOR STREET IS BROWARD LANDFILL/POWELLS ROAD
- 2. FLASHING OPERATION: HEADS: 2 & 6 - FLASHING YELLOW HEADS: 4/7, 3/8, 4, & 8 - FLASHING RED
- 3. EXISTING SIGNAL OPERATION TO REMAIN

LEGEND

EXIST. VEHICLE VIDEO DETECTION CAMERA

S.R. 7 / U.S. 441



EXIST. VEHICLE DETECTION ZONE



EXIST. MAST ARM TO REMAIN EXIST. PEDESTRIAN COUNTDOWN PEDESTALS TO REMAIN

SR 7 / US 441 & BROWARD LANDFILL / POWELLS RD BC TS: 3382

REVISIONS DESCRIPTION DATE DESCRIPTION DATE

HBC ENGINEERING COMPANY HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172 PHONE: (305) 232-7932 FAX: (305) 232-7933 ENGINEER OF RECORD: JOSE A. LOPEZ, P.E. P.E. LICENSE NUMBER 81014

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION								
ROAD	NO.	COUNTY	FINANCIAL PROJECT ID					
SR	7	BROWARD	429576-3-52-01					

SIGNALIZATION PLAN

SHEET NO. T-6

P4



3-SECT., 1-WAY (TO RÉMAIN)

71



3-SECT., 1-WAY (TO REMAIN)

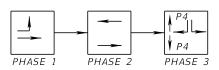
 $|7/_{4}|$

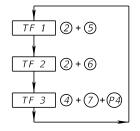
4-SECT., 1-WAY (TO REMAIN)

15/₂|

5-SECT., 1-WAY (TO REMAIN)

EXISTING S.O.P.





EXISTING SIGNAL TIMING:

CONTROLLER TIMINGS								
CONTROLLER PHASE	1	2	3	4	5	6	7	8
FACE NUMBER	1	2	3	4	5	6	7	8
DIRECTION		NB		EΒ	NBL	SB	EBL	
INITIAL GREEN (MIN)		7		6	4	7	6	
VEHICLE EXT. GAP		1.5		2	1.5	1.5	2	
MAXIMUM GREEN I		45		35	12	45	35	
MAXIMUM GREEN II								
YELLOW CLEARANCE		5		4		5	4	
ALL RED CLEARANCE		2		2		2	2	
PHASE RECALL		MIN		0FF	0FF	MIN	0FF	
WALK				7				
PED. CLEARANCE				29				
PERMISSIVE								
FLASH OPERATION		YELLOW	•	RED		YELLOW	RED	
GREEN RETURN								

EXISTING SIGNAL OPERATIONS:

- 1. MAJOR STREET IS S.R. 7/U.S. 441 MINOR STREET IS OAKES ROAD
- 2. FLASHING OPERATION: HEADS: 2 & 6 - FLASHING YELLOW HEAD: 4 - FLASHING RED
- 3. EXISTING SIGNAL OPERATION TO REMAIN

PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY (TO REMAIN)



PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY 1 AS 653-1-11

PROPOSED SIGN PANELS



FTP-68B-06 9" X 18" 1 AS

EXIST. INTERNALLY ILLUMINATED SIGN

~~~~~~~~~ OAKES ROAD

(Y)



EXIST. SIGN (TO REMAIN)

### (TO REMAIN)

| VIDEO DETECTION ZONE   |             |        |        |  |  |  |  |  |  |  |
|------------------------|-------------|--------|--------|--|--|--|--|--|--|--|
| EXIST. VIDEO<br>CAMERA | MOVEMENTS   | ZC     | NE     |  |  |  |  |  |  |  |
| V – 1                  | 6           | VD 6-1 | VD 6-2 |  |  |  |  |  |  |  |
| V – I                  | б           | VD 6-3 |        |  |  |  |  |  |  |  |
| V-2                    | <i>5, 2</i> | VD 5-1 | VD 2-1 |  |  |  |  |  |  |  |
| V -2                   | J, ∠        | VD 2-2 | VD 2-3 |  |  |  |  |  |  |  |
| V-3                    | 7 1         | VD 7-1 | VD 7-2 |  |  |  |  |  |  |  |
|                        | 7, 4        | VD 4-1 |        |  |  |  |  |  |  |  |

EXISTING VIDEO DETECTION:

#### LEGEND

 $\overline{V}$ 

EXIST. VEHICLE VIDEO DETECTION CAMERA

EXIST. VEHICLE DETECTION ZONE

 $\langle A2 \rangle$ 

EXIST. MAST ARMS AND SIGNAL PEDESTALS TO REMAIN

 $\langle B2 \rangle$ (G# \

EXIST. PEDESTRIAN COUNTDOWN PEDESTALS TO REMAIN

PROPOSED MAST ARM CONSTRUCTED UNDER FPID 443591-1-52-01

CONTROLLER ITEMS

632-7-1 1 PI 671-2-40 1 AS

EXIST. CONTROLLER (TO REMAIN)

PICK UP PNT

(G1)

141 LF 630-2-12

1 RUN

PROP. PEDESTAL STA. 403+54.50

80.75' RT

9 LF

1 EA

1 EA

1 EA

1 EA 635-2-11

(1 PED\_SIGNAL)

18///y93-31/Y///

BFOCIBALI

-- #FØC(D) :BFOC(B) - GI

P4

[6]

<u></u> [6]

B SURV. SR 7

[2]

[2] <sub>←</sub>

 $\begin{bmatrix} 4 \end{bmatrix} \begin{bmatrix} 7/4 \end{bmatrix} \begin{bmatrix} 7 \end{bmatrix} (Z)(Y)$ 

· BFOC(B) · · · BFOC(D) ·

EXIST. PEDESTAL (TO BE REMOVED)

646-1-60 1 EA

N14°50'47"E

EXIST. FPL POWER

EXIST. SERVICE DISCONNECT (TO REMAIN)

403

(G2)

630-2-11

635-2-11

646-1-11 665-1-11

R/W LINE

PLANS SHOW PROPOSED IPROVEMENTS CONSTRUCUTED UNDER FPID 443591-1-52-01

P4 SIGNAL PROP. - PFD POLE EXIST.

VR/W LINE

S.R. 7 / U.S. 441

///VD 6-2'/////

SR 7 / US 441 & OAKES RD BC TS: 2084

REVISIONS HBC ENGINEERING COMPANY DESCRIPTION DESCRIPTION DATE DATE HBC ENGINEERING COMPANY

8935 NW 35TH LANE, SUITE 201,

DORAL, FLORIDA, 33172

PHONE: (305) 232-7932 FAX: (305) 232-7933

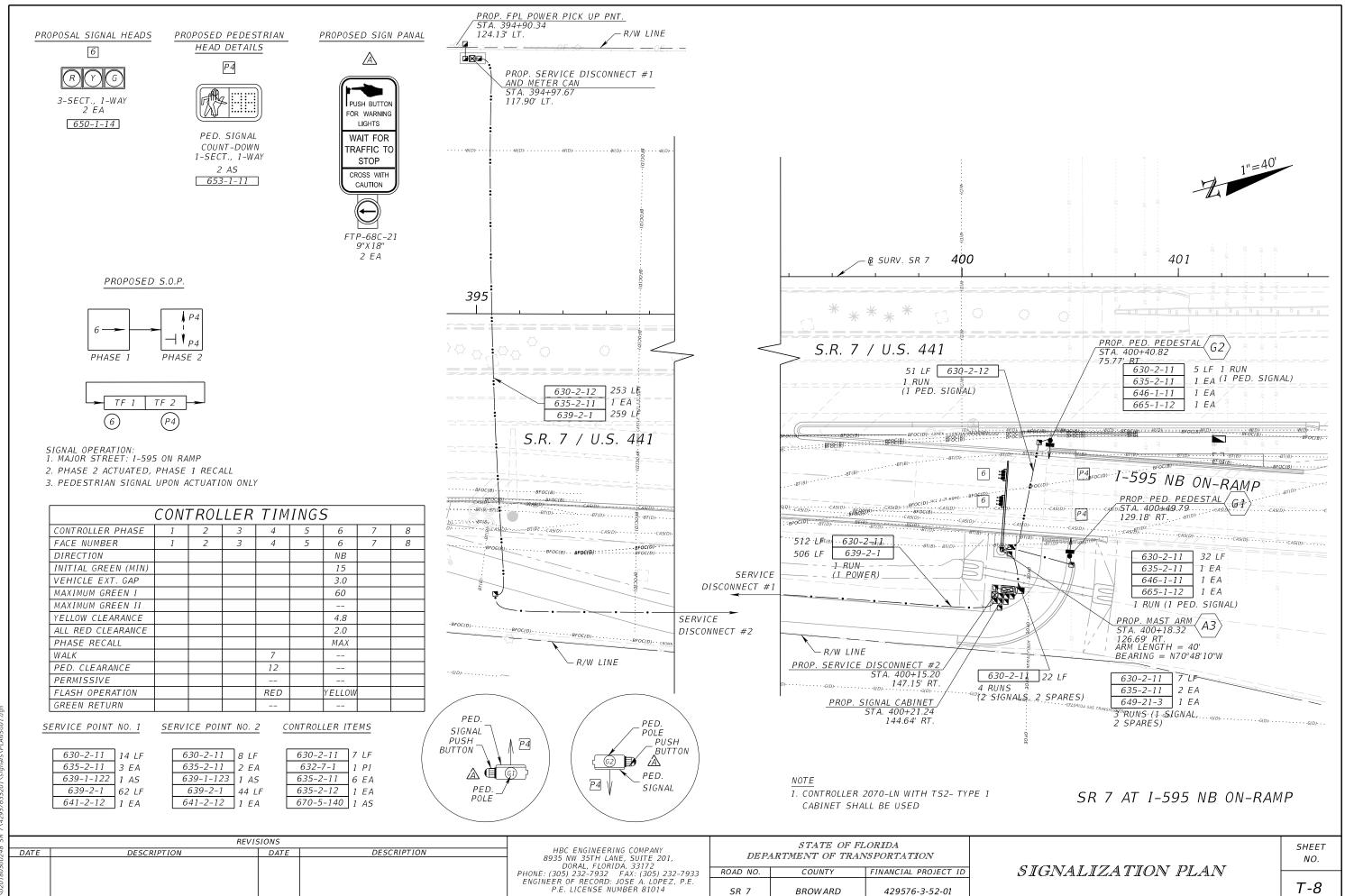
ENGINEER OF RECORD: JOSE A. LOPEZ, P.E.

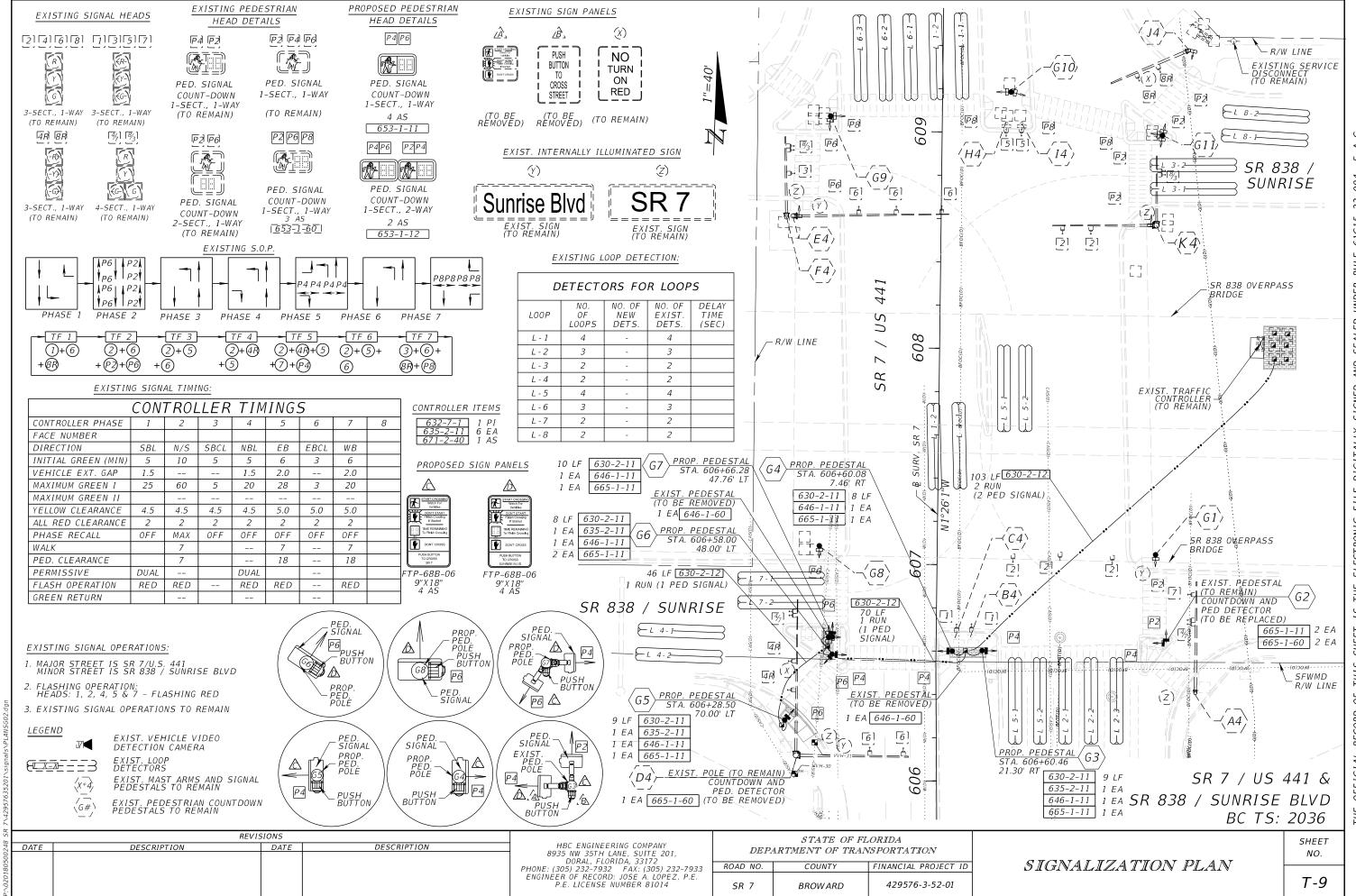
P.E. LICENSE NUMBER 81014

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 7 BROWARD 429576-3-52-01

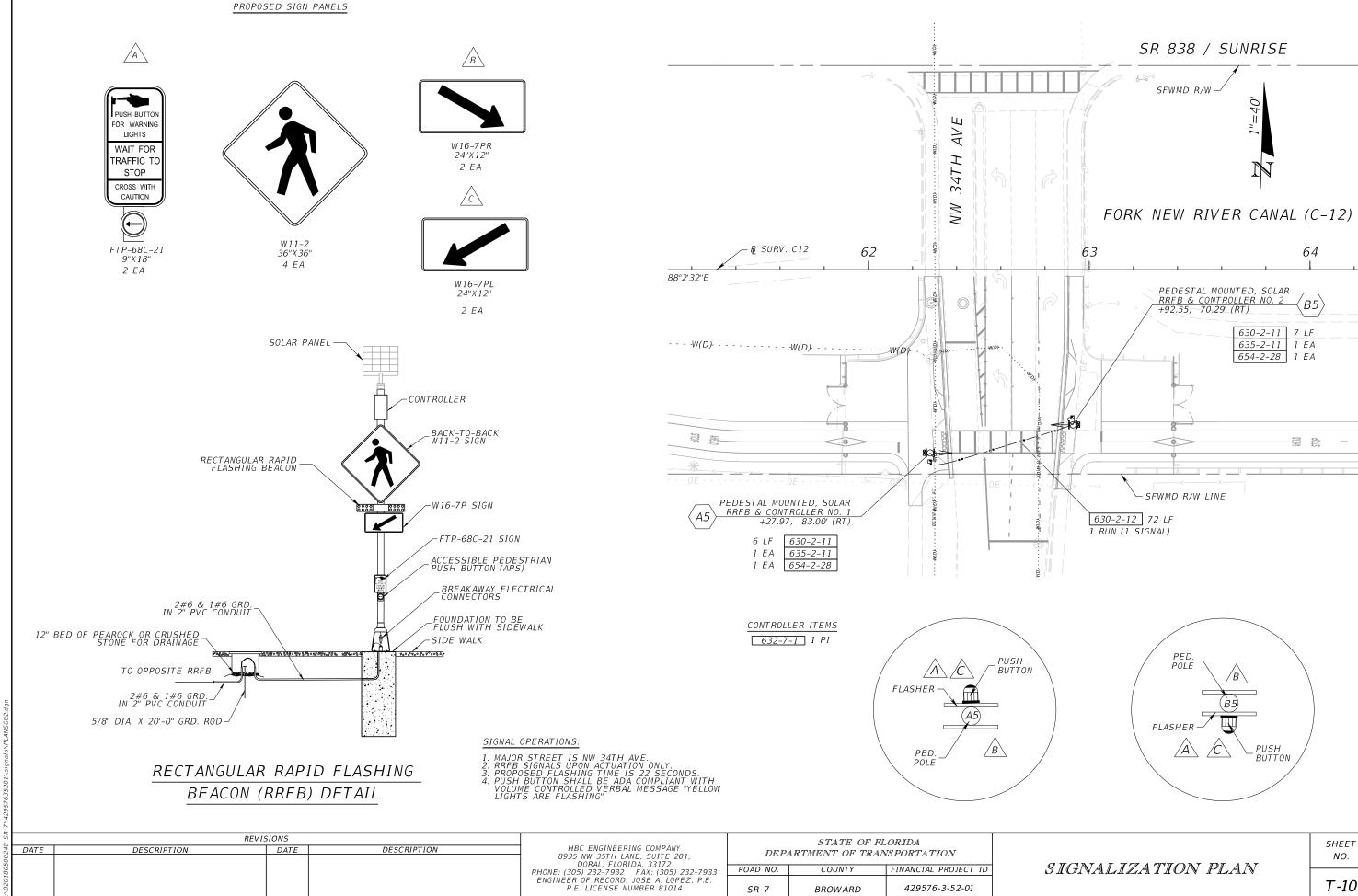
SIGNALIZATION PLAN

SHEET NO.





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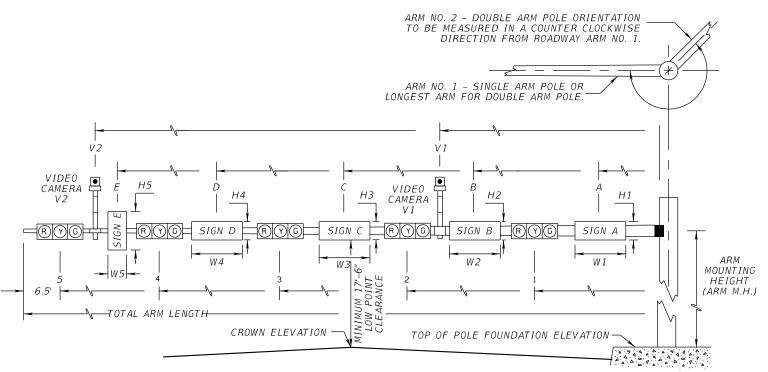


SR 7

BROWARD

429576-3-52-01

|   | SPECIAL<br>INSTRUCTIONS |            |            |  |              |                              |  |  |  |
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#### \* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

|     |              |                     |                 |      |       |        |       |        | SIGNAL DATA |      |      |      |      |      |    | DATA   |     |       |     | SIGN DATA |   |   |   |                           |          |        |     |                                         |     |        |      |        |      |          |       |        |        |       |
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| ΙD  | SHEET        | LOCATION<br>BY STA. | TOP OF<br>FOUND | RDWY | CROWN | LUMI - | TERM. | SIGNAL | BACK        | PED. |      |      |      |      | DΙ | STANCE | FRO | OM PO | OLE |           |   |   |   | VIDEO<br>CAMERA<br>ID No. | DISTANCE | TOTAL  | ARM | ANGLE<br>BETWEEN<br>DUAL ARMS<br>90/270 | DIS | STANCE | FROM | M POLE | / HE | GHT A    | AND W | IDTH O | F SIGN | PAINT |
| NO. | SHEET<br>NO. | BY STA.             | ELEVATION       | NO.  | ELEV. | Y/N    | Y/N   | V/H    | Y/N         | Y/N  | 1    |      | _    |      |    | 3 *    |     | 4     | *   | 5         | * | 6 | * | ID No.                    | POLE V1  | LENGTH | М.Н | DUAL ARMS<br>90/270                     | Α   | H1     | W 1  | В      | H2   | W2       | С     | Н3     | W3     | COLOR |
| A-3 | T-8          | 400+18.32           | 7.02'           | 1    | 6.52' | N      | N     | Н      | Y           | N    | 21.6 | 5' 3 | 33.0 | 5' 3 |    |        |     |       |     |           |   |   |   |                           |          | 40'    |     |                                         |     |        |      |        |      |          |       |        |        |       |
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HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172 PHONE: (305) 232-7932 FAX: (305) 232-7933 ENGINEER OF RECORD: JOSE A. LOPEZ, P.E. P.E. LICENSE NUMBER 81014

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                |  |  |  |  |  |  |  |
|--------------------------------------------------|---------|----------------|--|--|--|--|--|--|--|
| ROAD NO. COUNTY FINANCIAL PROJECT                |         |                |  |  |  |  |  |  |  |
| SR 7                                             | BROWARD | 429576-3-52-01 |  |  |  |  |  |  |  |

MAST ARM TABULATION

SHEET NO.

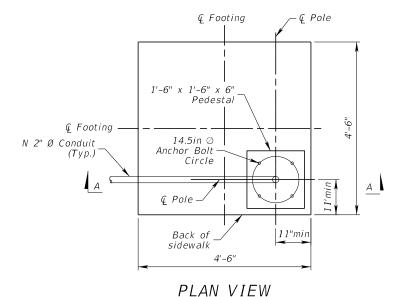
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|----------------------------|--------------------------|-----------|--------------|-----------|--------------|-------------|-------------|------------|--------------|-------------|-------------|
| STRUCTURE<br>ID<br>NUMBERS |                          | FIRS      | T ARM        | SECON     | ID ARM       | UF<br>(deg) |             |            | DRILLED      |             |             |
|                            | DESIGNATION              | ARM<br>ID | FAA<br>(ft.) | ARM<br>ID | SAA<br>(ft.) |             | LL<br>(deg) | POLE<br>ID | UAA<br>(ft.) | UB<br>(ft.) | SHAFT<br>ID |
| A-3                        | A40/S - P2/S - D5/12/4.5 | A40/S     |              |           |              |             |             | P2/S       | 23.0         | 20.0        | DS/12/4.5   |
|                            |                          |           |              |           |              |             |             |            |              |             |             |
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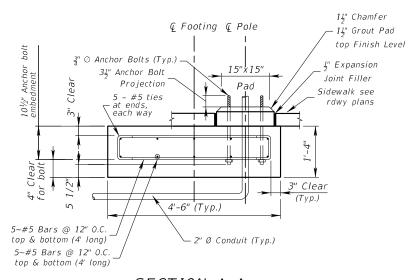
#### NOTES

- 1. IF AN ENTRY APPEARS IN COLUMN FAA, A SHORTER ARM IS REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE ARM TIP AND THE ARM LENGTH SHORTENED FROM FA TO FAA. SAA SIMILAR.
- 2. IF AN ENTRY APPEARS IN COLUMN UAA, A SHORTER POLE IS REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE POLE TIP AND THE POLE HEIGHT SHORTENED FROM UA TO UAA.
- 3. ARM MOUNTING HEIGHT UB MUST BE BETWEEN 18-22 FEET.
- 4. POLE TYPES P2 AND LARGER REQUIRE A MINIMUM 4.5 FOOT DIAMETER DRILLED SHAFT. POLE TYPES P5 AND LARGER REQUIRE A MINIMUM 5.0 FOOT DIAMETER DRILLED SHAFT.
- 5. WORK THIS SHEET WITH THE SIGNAL DESIGNER'S "MAST ARM TABULATION". SEE "MAST ARM TABULATION" FOR SPECIAL INSTRUCTIONS THAT INCLUDE NON-STANDARD HANDHOLE LOCATION, PAINT COLOR, TERMINAL COMPARTMENT REQUIREMENT, AND PEDESTRIAN FEATURES.
- 6. WORK WITH INDEX 649-030 AND 649-031.

|      | REVIS                          | IONS |  |                                                                      |                              | STATE OF FL | ORIDA                |  |
|------|--------------------------------|------|--|----------------------------------------------------------------------|------------------------------|-------------|----------------------|--|
| DATE | E DESCRIPTION DATE DESCRIPTION |      |  | HBC ENGINEERING COMPANY                                              | DEPARTMENT OF TRANSPORTATION |             |                      |  |
|      |                                |      |  | 8935 NW 35TH LANE, SUITE 201,<br>DORAL, FLORIDA, 33172               | 1013111                      |             |                      |  |
|      |                                |      |  | PHONE: (305) 232-7932  FAX: (305) 232-7933                           | ROAD NO.                     | COUNTY      | FINANCIAL PROJECT ID |  |
|      |                                |      |  | ENGINEER OF RECORD: ADEBAYO COKER, P.E.<br>P.E. LICENSE NUMBER 55322 | SR 7                         | BROWARD     | 429576-3-52-01       |  |

STANDARD MAST ARM DATA TABLE SHEET NO.





SECTION A-A SHALLOW FOUNDATION DETAIL

#### NOTES:

- 1. FOOTING CONSTRUCTION TO BE IN ACCORDANCE WITH SECTION 455 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTS
- 2. THE FOOTING HAS BEEN DESIGNED FOR A SIGNAL POLE OF UP TO 10 FT IN HEIGHT, AND A DESIGN WIND SPEED OF 160 MPH IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN MANUAL, VOLUME 3 (MODIFICATIONS TO AASHTO LRFDLTS-1), FOR STRUCTURES EQUAL TO OR SMALLER THAN 50 FT IN HEIGHT. THE POLE IS DESIGNED TO SUPPORT TWO SETS OF SIGNALS AND SIGNS TO ACCOMMODATE TWO CROSSINGS.
- 3. MATERIALS:
  - A. CONCRETE: CONCRETE SHALL BE CLASS IV, F'C = 5,500PSI, IN ACCORDANCE WITH SPECIFICATION
  - B. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

  - C. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 55. D. NUTS SHALL BE IN ACCORDANCE WITH ASTM A563, GRADE DH, HEAVY HEX NUTS.
  - E. WASHERS SHALL BE IN ACCORDANCE WITH ASTM F436, TYPE 1.

ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.

4. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES AND STRUCTURES PRIOR TO BEGINNING WORK AND NOTIFY THE ENGINEER OF ANY CONFLICTS.

THE REQUIRED SOIL COVER UNDER THE FOOTING AND ABOVE THE UTILITY BEING CLEARED SHALL BE VERIFIED WITH THE RESPECTIVE UTILITY OWNER. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED IN THE EVENT THE REQUIRED COVER IS NOT ACHIEVABLE UNDER THE CURRENT DESIGN. ANY ADJUSTMENTS TO THE CURRENT DESIGN SHALL BE AS APPROVED BY THE ENGINEER IN COORDINATION WITH THE ENGINEER OF

ANY DAMAGES TO EXISTING UTILITIES DURING EXCAVATION, BACK FILLING, AND CONSTRUCTION OF THE FOOTING SHALL BE REPAIRED SOLELY AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE

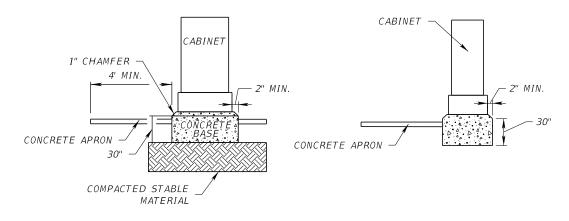
- 5. ADJUST REINFORCING BARS AS REQUIRED TO AVOID CONFLICT WITH CONDUITS.
- 6. ENVIRONMENTAL CLASSIFICATION = MODERATELY AGGRESSIVE.
- 7. THE SPREAD FOOTING DESIGN IS BASED ON A NOMINAL BEARING RESISTANCE OF 5000 PSF.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE ANCHOR BOLT CONFIGURATION IS COMPATIBLE WITH THE SIGNAL POLE BASE PLATE. SUBMIT MODIFICATIONS OF THE ANCHOR BOLT DESIGN TO THE ENGINEER FOR
- 9. ALL CONDUIT SHALL BE P.V.C SCHEDULE 40. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY AND MAY BE ADJUSTED FOR EACH LOCATION AS REQUIRED.

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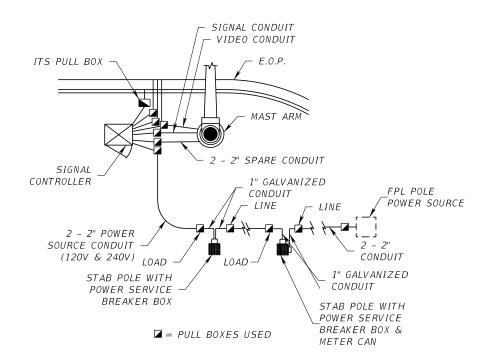
HBC ENGINEERING COMPANY 8935 NW 35TH LANE, SUITE 201, DORAL, FLORIDA, 33172 ONE: (305) 232-7932 FAX: (305) 232-7933 GINEER OF RECORD: ADEBAYO COKER, P.E. P.E. LICENSE NUMBER 55322

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 429576-3-52-01 SR 7 BROWARD

PEDESTAL MOUNTED SIGNAL SHALLOW FOUNDATION DETAIL SHEET NO.



CABINET PAD DETAIL N.T.S.



## POWER SERVICE PLAN VIEW DETAIL

DESCRIPTION

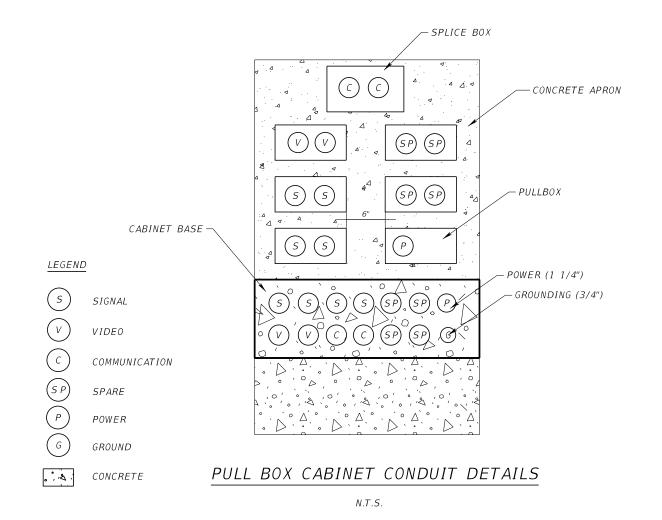
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REVISIONS

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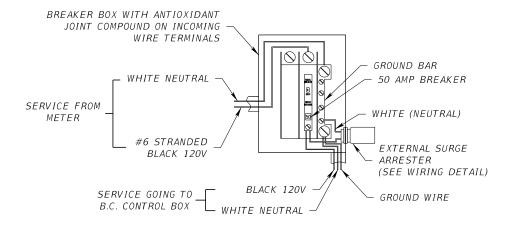
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| HBC ENGINEERING COMPANY                                                                             |    |
|-----------------------------------------------------------------------------------------------------|----|
| 8935 NW 35TH LANE, SUITE 201,<br>DORAL, FLORIDA, 33172<br>PHONE: (305) 232-7932 FAX: (305) 232-7933 | RO |
| ENGINEER OF RECORD: JOSE A. LOPEZ, P.E.<br>P.E. LICENSE NUMBER 81014                                |    |

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      |  |  |  |  |  |  |  |  |
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| ROAD NO.                                         | COUNTY  | FINANCIAL PROJECT ID |  |  |  |  |  |  |  |  |
| SR 7                                             | BROWARD | 429576-3-52-01       |  |  |  |  |  |  |  |  |

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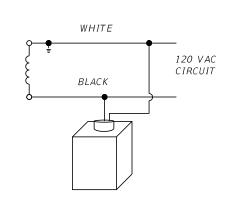


#### NOTES

- 1. ALL TERMINALS MUST HAVE DIE ELECTRIC GREASE TO PREVENT CORROSION
- 2. SURGE ARRESTER SHALL BE WIRED ON THE LOAD SIDE OF THE DISCONNECT
- 3. DISCONNECT SHALL USE BREAKERS, NO FUSES OR EXTERNAL SWITCHES PERMITTED

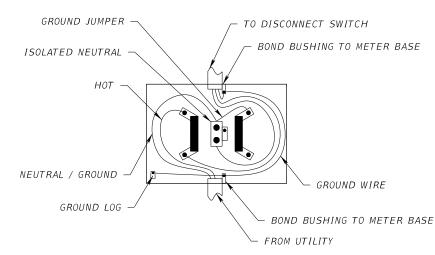
### SERVICE DISCONNECT/BREAKER ASSEMBLY

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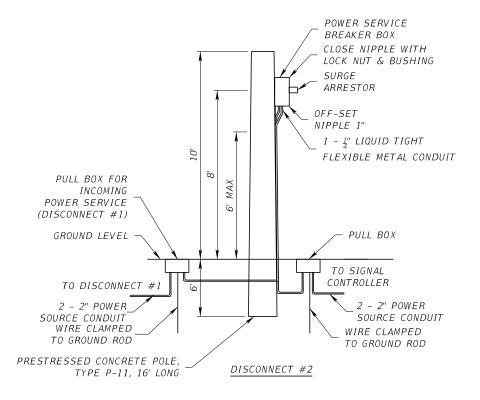
### SURGE ARRESTER WIRING DETAILS

N.T.S.



# METER SOCKET DETAIL N.T.S.

POWER SERVICE BREAKER BOX CLOSE NIPPLE WITH LOCK NUT & BUSHING SURGE ARRESTOR 1" IMC. FOR OFF-SET POWER SERVICE NIPPLE 1" 1" P.V.C. CONDUIT 1 - 1" LIQUID TIGHT FOR GROUND ROD GROUND ROD FLEXIBLE METAL CONDUIT TO CABINET MIN. 10' X 5" METER SOCKET 7 - 2" CONDUIT (SCH. 40) PULL BOX FOR GROUND ROD INCOMING MIN. 10' X 5" POWER SERVICE PULL BOX GROUND LEVEL *PULLBOX* 2 - 2" POWER SOURCE CONDUIT TO DISCONNECT #2 FROM FPL 1" MIN. PVC CONDUIT SIZING POWER SOURCE CONDUIT ुत्र" − GROUND GROUND ROD 2 - 2" POWER WIRE CLAMPED 1" - LINE SOURCE CONDUIT MIN. 10' X 5" TO GROUND ROD 1" - LOAD WIRE CLAMPED PRESTRESSED CONCRETE POLE, TO GROUND ROD TYPE P-11, 16' LONG 1" GALV. CONDUIT DISCONNECT #1 TYPICAL GROUND ROD ARRAY N.T.S.



#### NOTES:

- 1. FOUR (4) PERIMETER GROUND RODS SHALL BE BURIED 6" BELOW GROUND LEVEL (BOUNDED)
- 2. ALL DUCTS SHALL BE SEALED

### STUB POLE DETAIL

N.T.S.

NOTES

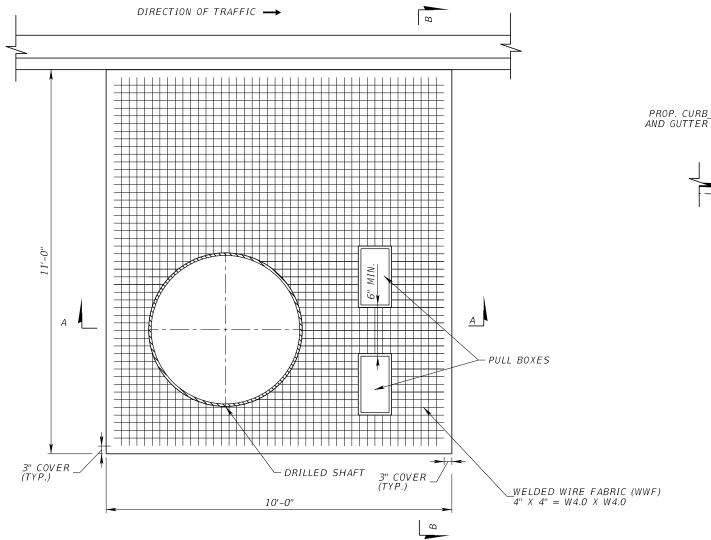
1. METER SHALL BE ORIENTED ON SIDE OF CONCRETE POLE FACING ONCOMING TRAFFIC

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| ATE | DESCRIPTION | DATE  | DESCRIPTION | HBC ENGINEERING COMPANY                                |
|     |             |       |             | 8935 NW 35TH LANE, SUITE 201,<br>DORAL, FLORIDA, 33172 |
|     |             |       |             | PHONE: (305) 232-7932  FAX: (305) 232-7933             |
|     |             |       |             | ENGINEER OF RECORD: ORLANDO R. PENATE, P.E.            |
|     |             |       |             | P.E. LICENSE NUMBER 80385                              |

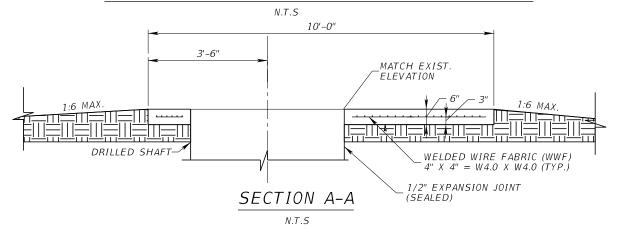
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| ROAD NO.                                         | COUNTY  | FINANCIAL PROJECT ID |  |  |  |  |  |  |  |
| SR 7                                             | BROWARD | 429576-3-52-01       |  |  |  |  |  |  |  |

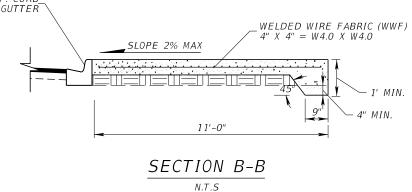
SERVICE POINT DETAIL

SHEET NO.



### SLAB DIMESIONS AND REINFORCEMENT LAYOUT





#### NOTES:

- CONCRETE FOR SLABS AROUND MAST ARMS AND PULL BOXES SHALL BE INCLUDED IN THE PRICE OF MAST ARM OR PULL BOX.
- DRILL SHAFT CONCRETE SHALL NOT SUBJECTED TO VIBRATIONS UNTIL CONCRETE SLAB HAS ATTAINED FINAL COMPRESSIVE STRENGTH.
   SEAL WITH A HOT POURED ELASTIC JOINT SEALER THE 1/2" EXPANSION JOINT
- 3. SEAL WITH A HOT POURED ELASTIC JOINT SEALER THE 1/2" EXPANSION JOI BETWEEN THE POLE SHAFT AND SLAB.

|      | REVIS       | SIONS |             |                                                                                                                                                                             |
|------|-------------|-------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE | DESCRIPTION | DATE  | DESCRIPTION | HBC ENGINEERING COMPANY                                                                                                                                                     |
|      |             |       |             | 8935 NW 35TH LANE, SUITE 201,<br>DORAL, FLORIDA, 33172<br>PHONE: (305) 232-7932 FAX: (305) 232-7933<br>ENGINEER OF RECORD: ADEBAYO COKER, P.E.<br>P.E. LICENSE NUMBER 55322 |

| STATE OF FLORIDA<br>DEPARTMENT OF TRANSPORTATION |         |                      |
|--------------------------------------------------|---------|----------------------|
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