

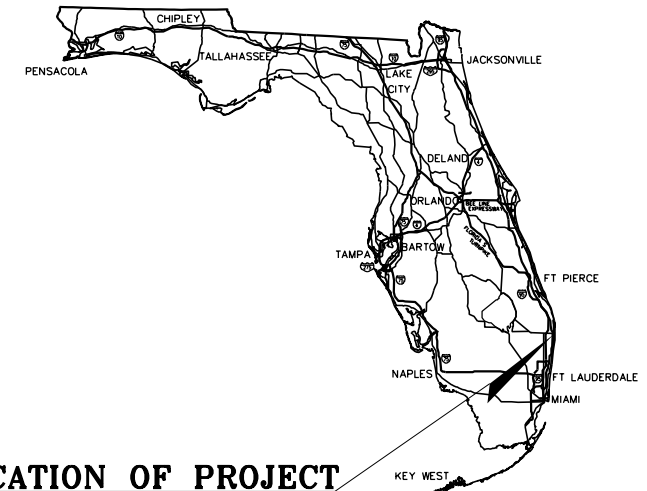
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COMPONENTS OF CONTRACT PLANS SET SIGNALIZATION PLANS

CITY OF WEST PALM BEACH
STATE OF FLORIDA
PALM BEACH COUNTY
PARKER AVENUE STREETSCAPE

Sheet List Table

Sheet Number	Sheet Title
C0.00	COVER SHEET
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S-6	STANDARD MAST ARM TABULATION
GS-1	GUIDE SIGN WORKSHEET



LOCATION OF PROJECT



SECT: 21
TOWNSHIP: 43
RANGE: 43

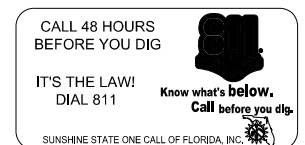
PROJECT LOCATION
PARKER AVENUE

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

Kimley»»Horn

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PLANS PREPARED BY:
KIMLEY-HORN AND ASSOCIATES, INC.
SUITE 200
1920 WEKIVA WAY
WEST PALM BEACH, FLORIDA 33411
REGISTRY NO. 35106
PHONE (561) 845-0665
FAX (561) 863-8175


CIVIL/ROADWAY
PE OF RECORD: ADAM B. KERR
P.E. NO.: 64773



COVER SHEET

**PARKER AVENUE
STREETSCAPE**
PREPARED FOR
CITY OF WEST PALM BEACH
WEST PALM BEACH

SHEET NUMBER
C0.00

			
1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM CA 00000696		No.	Revisions
			DATE
			BY

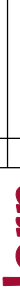
DATE	ADAM B. KERR	FL LICENSE NUMBER PL# 64773	DATE:
SCALE AS SHOWN			
DESIGNED BY			
DRAWN BY			
CHECKED BY			

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TABULATION OF QUANTITIES										
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS				TOTAL THIS SHEET		GRAND TOTAL	
			S - 4		S - 5					
630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	40		65		105		105	
630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	70		300		370		370	
632 7 2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF	20		80		100		100	
632 7 7	SIGNAL CABLE, REMOVE - OUTSIDE OF INTERSECTION	LF								
635 2 11**	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	4		25		29		29	
639 1 122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS			1		1		1	
639 2 1	ELECTRICAL SERVICE WIRE, F&I	LF			50		50		50	
639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA			1		1		1	
641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA			1		1		1	
646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	2		8		10		10	
641-2-87	PRESTRESSED CONCRETE POLE, DEEP POLE REMOVAL - POLE 30' AND GREATER	EA			4		4		4	
649 1 65	STEEL STRAIN POLE, REMOVE, DEEP FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA			4		4		4	
649 21 1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA			2		2		2	
649 21 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA			1		1		1	
649 21 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA			1		1		1	
650 1 14***	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS			6		6		6	
650 1 16***	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS			2		2		2	
650 1 19***	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS			2		2		2	
653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	2		8		10		10	
653 1 60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS	1				1		1	
660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS			9		9		9	
665 1 11*	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	2		8		10		10	
670 5110	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL NEMA TS-2 TYPE 6 WITH ATC CONTROLLER	AS			1		1		1	
670 5 600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS			1		1		1	
684 1 1	MANAGED FIELD ETHERNET SWITCH, F&I	EA			1		1		1	
700 3 201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	EA			5		5		5	
700 5 22	INTERNALLY ILLUMINATED SIGN	EA			4		4		4	

NOTE:

* TO PAY FOR BULLDOG PEDESTRIAN DETECTOR
** TO PAY FOR PULL & SLICE BOX, TIER 22
*** BACKPLATES ARE INCLUDED IN THIS PAY ITEM NUMBER PER FDOT

SHEET NUMBER S-1	PARKER AVENUE STREETSCAPE PREPARED FOR CITY OF WEST PALM BEACH WEST PALM BEACH	SIGNALIZATION TABULATION OF QUANTITIES	KHA PROJECT DATE SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	LICENSED PROFESSIONAL ADAM B. KERR FL LICENSE NUMBER PE# 64773	 1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0865 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM CA 00000696	No.	Revisions	Date	By

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- 20) ALL SET SCREWS MUST BE INSTALLED (NONE SHOULD BE MISSING). MOST MANUFACTURERS HAVE THEIR OWN DESIGNED INTO THE PEDESTRIAN BASES FROM FACTORY. WHEN PEDESTAL POLE IS SET AT PROPER DIRECTION, DRILL AND TAP HOLE THRU BASE AND ALUMINUM CONDUIT. SET SCREWS SHOULD GO THROUGH SIDE OF BASE INTO PEDESTAL POLE TO PENETRATE INTO PIPE TO KEEP IT FROM ROTATING. USING A 1/4"X20 SS HEX HEAD BOLT WILL LOCK THE PIPE FROM TURNING.
- 21) BOLTS SHOULD BE LONG ENOUGH TO PROTRUDE THROUGH THE THREADED HOLE AND HOLD WASHER AND NUT.
- 22) CAULKING/SEALANT TO BE APPLIED AT ALL SIGNALS FLANGE CONNECTIONS, INCLUDING BUT NOT LIMITED TO THE TOP OF THE FLASHER SIGNAL.
- 23) THE CONTRACTOR SHALL BUILD NEW ELECTRICAL POWER SERVICE AND DISCONNECT ON MONUMENT WITH A MINIMUM HEIGHT OF EIGHT (8) FEET.
- 24) THE CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATION(S) OF ELECTRICAL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT SWITCH, TRANSFORMER AND PULL BOXES.
- 25) POWER SOURCE – ON MODIFICATIONS/UPGRADES TO EXISTING TRAFFIC SIGNALS
 - A) IF ADDING LOAD, THEN ADD METER;
 - B) IF NOT ADDING LOAD (IE JUST RELOCATING SAME EQUIPMENT) KEEP EXISTING POWER SOURCE. ALL NEW INSTALLED SIGNALS WILL BE METERED. CONTRACTOR SHALL COORDINATE WITH FPL FOR NEW INSTALLATION AS REQUIRED. ELECTRIC SERVICE TO BE SET UP IN CONTRACTOR'S NAME, THEN TRANSFERRED TO PBC TRAFFIC DIVISION AFTER 90 DAY BURN AND FINAL ACCEPTANCE.
- 26) THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE, COORDINATE TIMING AND AUTHORIZATION OF POWER SERVICE WITH PALM BEACH COUNTY TRAFFIC ENGINEERING. CONTACT TIMING ENGINEER (561-684-4030) 2 WEEKS IN ADVANCE OF CONSTRUCTION AND TO COORDINATE TIMING CHANGES PRIOR TO LOOP DAMAGE. CONTACT PBC TRAFFIC OPERATIONS (561-233-3900) TO COORDINATE REPLACING THE OLD SCHOOL FLASHERS AND RETIMING THE NEW SCHOOL FLASHERS.
- 27). ANY SIGNAL MODIFICATION NECESSARY IN ORDER TO CARRY OUT PROJECT CONSTRUCTION SHALL BE SUBMITTED TO PBC TRAFFIC ENGINEERING DIVISION FOR APPROVAL. SIGNAL MODIFICATION SUBMITTAL TO BE IN A FORM OF A LEGIBLE PLAN THAT CLEARLY SHOWS THE SIGNAL HEAD FACES AND ALIGNMENT WITH THE PROPOSED LANE MODIFICATION, AND SIGNAL PHASING. ALL SIGNAL MODIFICATIONS TO FOLLOW MUTCD MINIMUM REQUIREMENTS.
- 28) MOT PLANS WILL NOT BE APPROVED UNTIL THE SIGNAL MODIFICATION PLANS HAVE BEEN APPROVED BY PBC TRAFFIC ENGINEERING.

INSPECTION AND ACTIVATION:

- 1) THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE MAINTAINING AGENCY FOR FINAL INSPECTION ALLOW TWO (2) WEEKS OR INSPECTION. TO SCHEDULE A SIGNAL INSPECTION, PLEASE EMAIL ENG-TRAFF-INSPECTION@PBCGOV.ORG IF YOUR PROJECT IS PART OF PBC ROADWAY PROJECT, THEN COPY IN CONSTRUCTION COORDINATOR/ROAD INSPECTOR.
- 2) AT THE TIME OF FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH PALM BEACH COUNTY WITH TWO (2) COMPLETE COPIES OF SIGNED AND SEALED ?AS-BUILT? PLANS AND CONSULTANT TO PROVIDE ELECTRONIC CAD FILES.
- 3) A 90 DAY BURN-IN PERIOD IS REQUIRED FOR ALL TRAFFIC SIGNAL EQUIPMENT. THE BURN-IN PERIOD WILL COMMENCE UPON A WRITTEN CONDITIONAL ACCEPTANCE BY THE COUNTY AND WILL TERMINATE NINETY (90) CONSECUTIVE DAYS, THEREAFTER, UNLESS AN EQUIPMENT MALFUNCTION OCCURS.
- 4) AFTER THE SIGNAL INSPECTION IS COMPLETED AND ALL OUTSTANDING ISSUES ARE RESOLVED (PUNCH LIST ITEMS COMPLETED), THE CONTRACTOR CAN REQUEST PB COUNTY TO SCHEDULE THE SIGNAL ACTIVATION. CONTRACTOR OR CEI SHALL REQUEST ACTIVATION TWO WEEKS IN ADVANCE.
- 5) WITH NEW TRAFFIC SIGNAL INSTALLATION AND PRIOR TO ACTIVATION: VARIABLE MESSAGE SIGNS SHALL BE INSTALLED SEVEN (7) DAYS BEFORE AND SEVEN (7) DAYS AFTER SIGNAL ACTIVATION AS FOLLOWS:

PRIOR TO SIGNAL ACTIVATION

PANEL 1 - TRAFFIC SIGNAL WILL BE PANEL 2- ACTIVE ON DATE (IE THURS JUNE 25)

AFTER SIGNAL ACTIVATION

PANEL 1 - TRAFFIC SIGNAL PANEL 2- NOW ACTIVE

PAY ITEM NOTES:

635-2-11 TYPICAL SIGNAL PULL BOXES SHALL BE 17" X 30" X12" IN DIMENSION AND HEAVY DUTY TIER 22 OR HIGHER. LIDS TO BE MARKED ?PBC TRAFFIC?

635-2-12 TYPICAL ITS PULL BOXES SHALL BE 17" X 30" X 24" (SMALL) OR 30" X 48"X24" (LARGE) AND HEAVY DUTY TIER 22 OR HIGHER. LIDS TO BE MARKED ?PBC TRAFFIC ITS?.

660-2-XX TYPICAL LOOP SIZE IS 46' LONG.

649--XX-XXX AT THE DISCRETION OF THE ENGINEER OF RECORD AND WITH MUTUAL AGREEMENT OF PBC TRAFFIC
ENGINEERING FINAL LOCATIONS OF THE MAST ARMS MAY BE ADJUSTED IN THE FIELD IF THERE IS ANY CONFLICT WITH
UTILITIES. SIGNAL CONTRACTOR SHALL VERIFY THE PROPOSED FOUNDATION ELEVATIONS.

650-1-XX TRAFFIC SIGNAL HEADS ARE TO BE CAST ALUMINUM. LED MODULES SHALL BE INSTALLED ON ALL SIGNAL DISPLAYS, INCLUDING ARROWS. THESE MODULES SHALL INCLUDE A MANUFACTURER'S WARRANTY OF AT LEAST FIVE YEARS. THE MAXIMUM POWER RATING SHALL BE 10 WATTS FOR RED BALLS, 14 WATTS FOR GREEN BALLS, AND 7 WATTS FOR THE ARROWS. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND BACK PLATES.

665-1-XX ALL PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT. PBC PREFERS THE POLARA ENGINEERING INC BDL3 BULLDOG III SERIES PUSH BUTTON (APL 665-003-011) WITH COUNTY LOGO. CONTACT MANUFACTURER FOR THE CUSTOM ETCHED LOGO AND REFER TO BDL3-B-CE. COSTS OF PEDESTRIAN SIGN SHALL BE INCLUDED IN UNIT PRICE FOR PEDESTRIAN DETECTORS.


700-5-XX ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED AND FREE SWINGING MOUNTED EXCEPT WHERE NOTED. CONTRACTOR SHALL INSTALL ONE PHOTOCCELL PER INTERNALLY ILLUMINATED STREET NAME SIGN. PER THE FDOT PAY ITEM DETAIL, ALL MOUNTING HARDWARE IS INCLUDED IN THE SIGN PAY ITEM. PER MUTCD, USE CORRECT GREEN TRANSLUCENT FILM FOR SIGN PANEL.

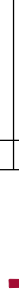
715-5-XX LUMINAIRE SHALL BE AUTOBAHN SERIES ATB2 LED (ATB2- P601, R4, 263 WATT, 3000K, MVOLT=120 VOLTS) AND EACH FIXTURE SHALL BE PROVIDED WITH PHOTOELECTRIC CELL. A SEPARATE CIRCUIT/BREAKER SHALL BE PROVIDE IN SIGNAL DISCONNECT FOR MAST ARMS WITH LUMINAIRES, COST OF WHICH IS INCLUDED UNDER THE PAY ITEM.

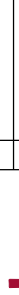
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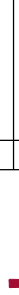
- 1) DURING CONSTRUCTION OF NEW SIGNAL EQUIPMENT AT EXISTING SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES TO ENSURE THAT FUNCTIONING TRAFFIC SIGNALS REMAIN VISIBLE TO MOTORISTS.
- 2) SPAN WIRE SIGNALS ONLY – DISCONNECTS FOR SIGNAL HEADS ON SPAN WIRE SIGNALS SHALL BE MODEL # 1150-18-T APL 659-004-007 WITH TRI STUD SPAN WIRE CLAMP ADAPTER MODEL # 1156-T APL 659-016-002. BOTH ARE MANUFACTURED BY ENGINEERING CASTINGS AND SUPPLIED BY PELCO PRODUCTS. ALL EQUIPMENT TO BE APPROVED BY PBC TRAFFIC PRIOR TO ORDERING VIA THE SHOP DRAWINGS.

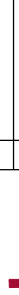
- 660-4-XX CONTRACTOR SHALL INSTALL ALL VIDEO CAMERA COMPONENTS WHETHER OR NOT THE INTERSECTION HAS THE APPROPRIATE COMMUNICATION MEDIA TO DETECT VEHICLES AND TO MONITOR TRAFFIC FLOW. INCLUDES COSTS OF ALL NECESSARY EQUIPMENT TO INSTALL AND OPERATE THE CAMERA, COAX AND THE POWER CABLES TO THE CAMERA ASSEMBLY SHOULD BE A IN SAME JACKETED CABLE AND SHOULD BE RUN IN A SEPARATE CONDUIT AND PULL BOXES WITH NO SPLICES. INITIAL AND FINAL DETECTION ZONES SHALL BE DECIDED BY PALM BEACH COUNTY TRAFFIC ENGINEERING. INSTALLATION SHALL INCLUDE WIRING, MOUNTING, AND ALL NECESSARY HARDWARE. PBC USES ITERIS SYSTEM, OBTAIN COUNTY APPROVAL PRIOR TO PURCHASING SYSTEM. NEWEST TECHNOLOGY IS THE ITERIS ?NEXT? MODEL


PARKER AVENUE STREETSCAPE PREPARED FOR CITY OF WEST PALM BEACH WEST PALM BEACH	SIGNALIZATION GENERAL NOTES	KHA PROJECT DATE SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	LICENSED PROFESSIONAL ADAM B. KERR FL LICENSE NUMBER PE# 64773	 1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-963-8175 WWW.KIMLEY-HORN.COM CA 00000696	No.	REVISIONS	DATE	BY

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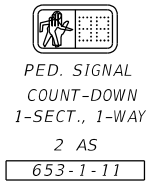
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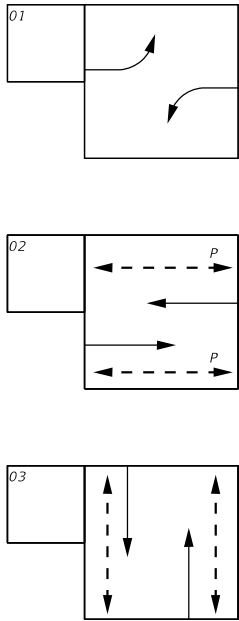
DETAIL OF SIGNAL HEADS



DETAIL OF SIGNS

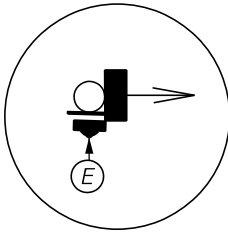


ASSOCIATED PHASE MOVEMENTS

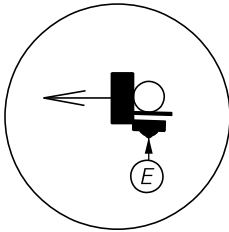


DESIGN NOTES:

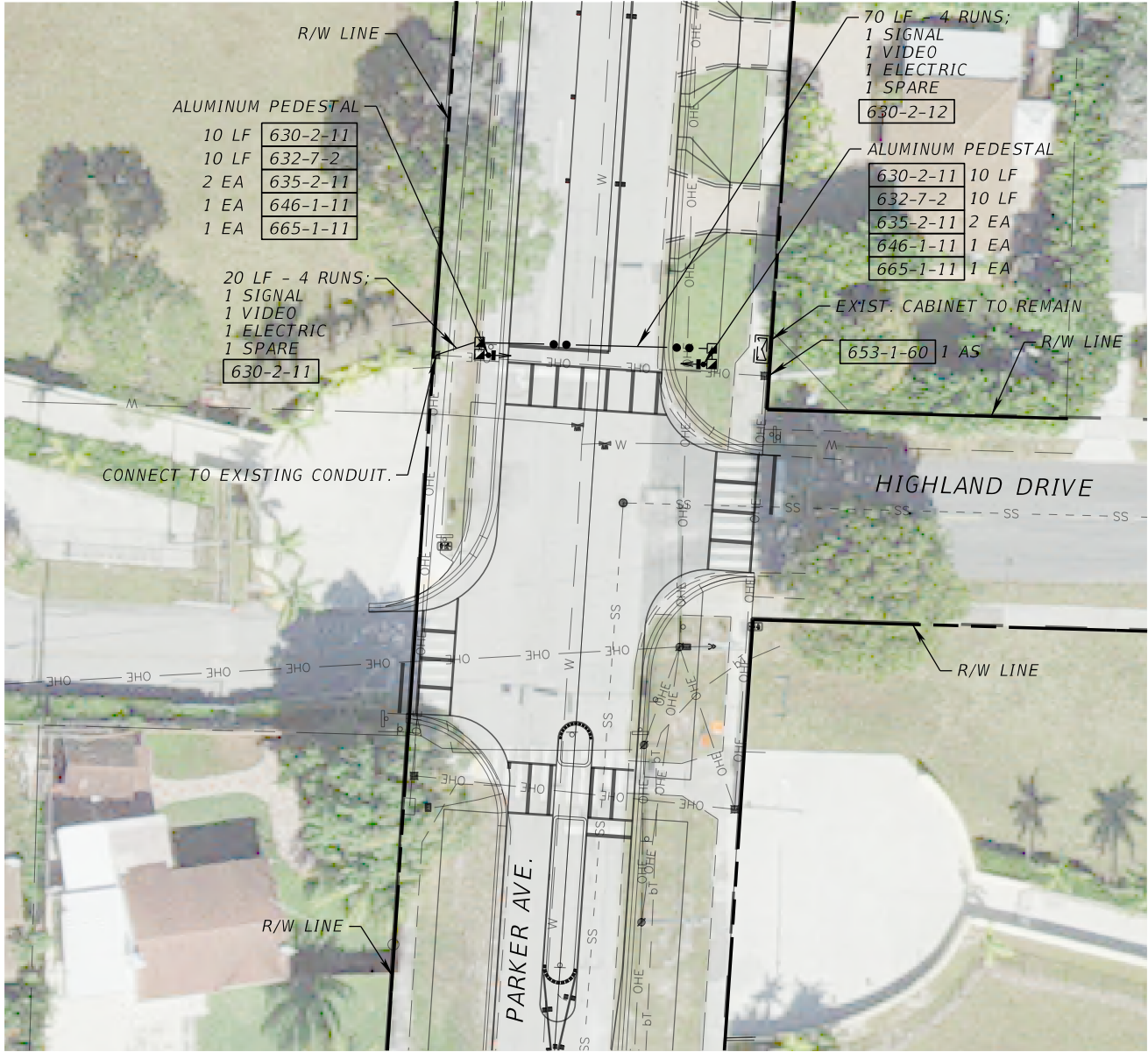
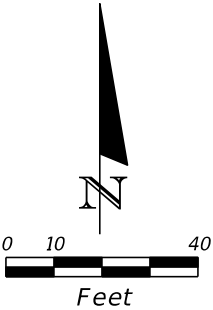
1. MAJOR ROAD: PARKER AVE
MINOR ROAD: HIGHLAND DR
2. SPEED LIMITS:
MAJOR ROAD - 30 MPH
MINOR ROAD - 35 MPH
3. CURB RAMP DESIGN TO BE
PROVIDED BY CITY FOR NEXT
SUBMITTAL.
4. CURB RAMP DESIGN TO BE
PROVIDED BY CITY FOR NEXT
SUBMITTAL.
5. EXISTING PEDESTRIAN SIGNALS
MAY NEED TO BE ADJUSTED IN FIELD.



N.W. CORNER



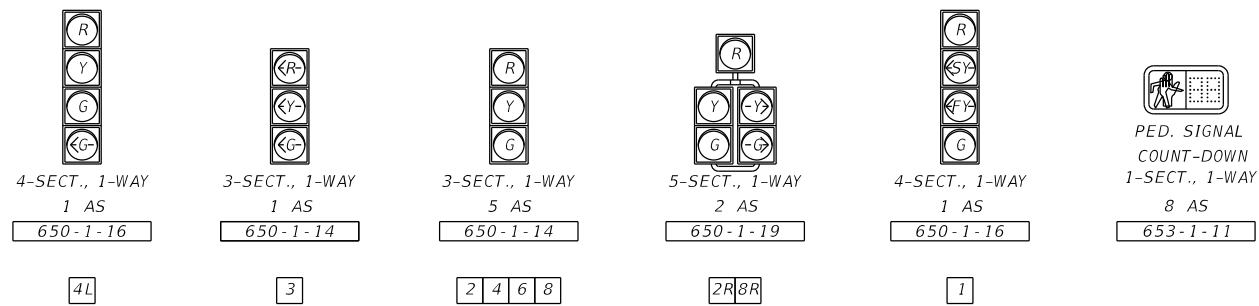
N.E. CORNER



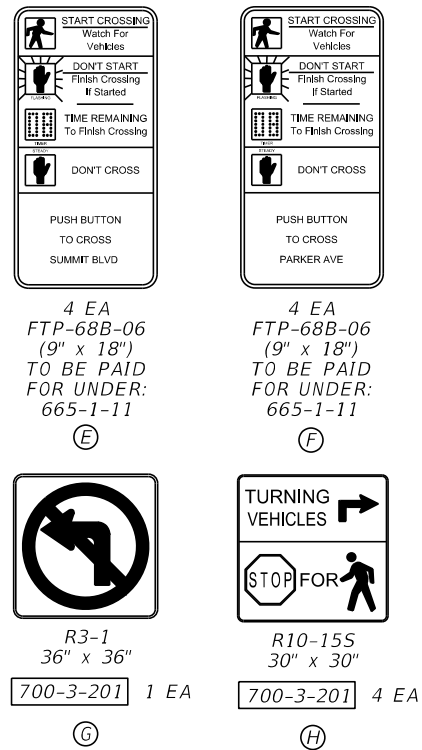
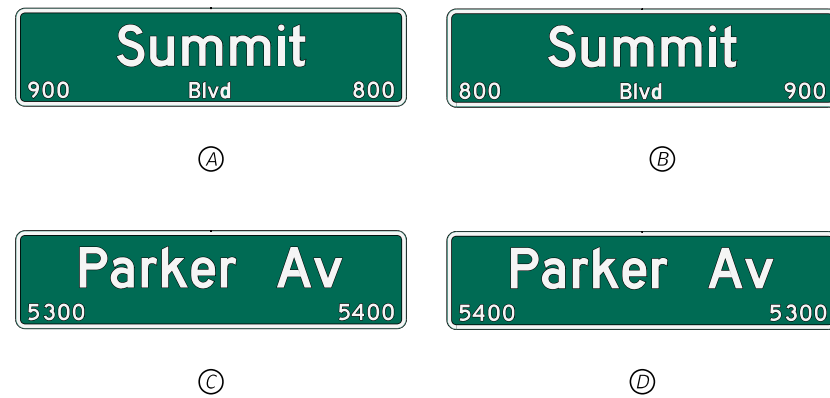
HIGHLAND DRIVE & PARKER AVE
TS 32570

KHA PROJECT		DATE		SCALE AS SHOWN		DESIGNED BY		DRAWN BY		CHECKED BY		DATE		REVISIONS		No.		BY	
SIGNALIZATION PLAN		PARKER AVENUE STREETSCAPE		PREPARED FOR CITY OF WEST PALM BEACH		WEST PALM BEACH		FL		SHEET NUMBER S-4		KIMLEY-HORN		ADAM B. KERR		FL LICENSE NUMBER PE# 64773		1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM CA 00000696	

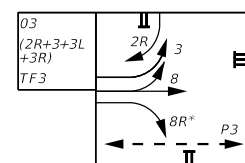
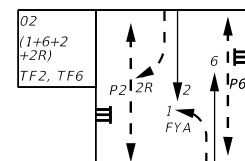
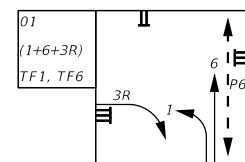
DETAIL OF SIGNAL HEADS



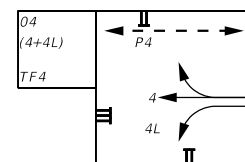
DETAIL OF SIGNS



ASSOCIATED PHASE MOVEMENTS



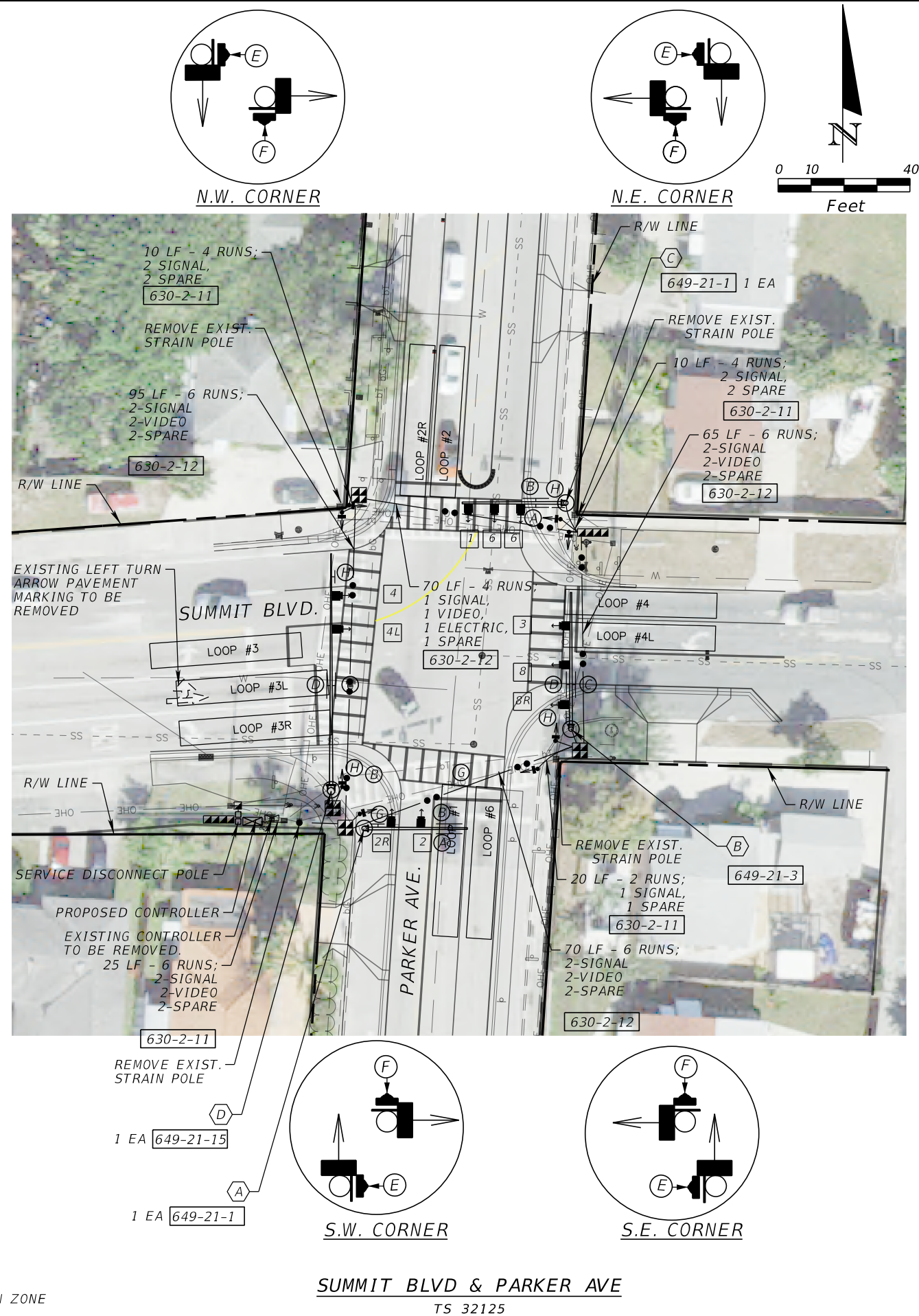
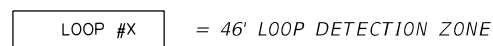
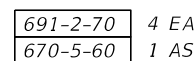
* NOTE 3R ARROW NOT TO BE ILLUMINATED WHEN P3 ACTIVATED



DESIGN NOTES:

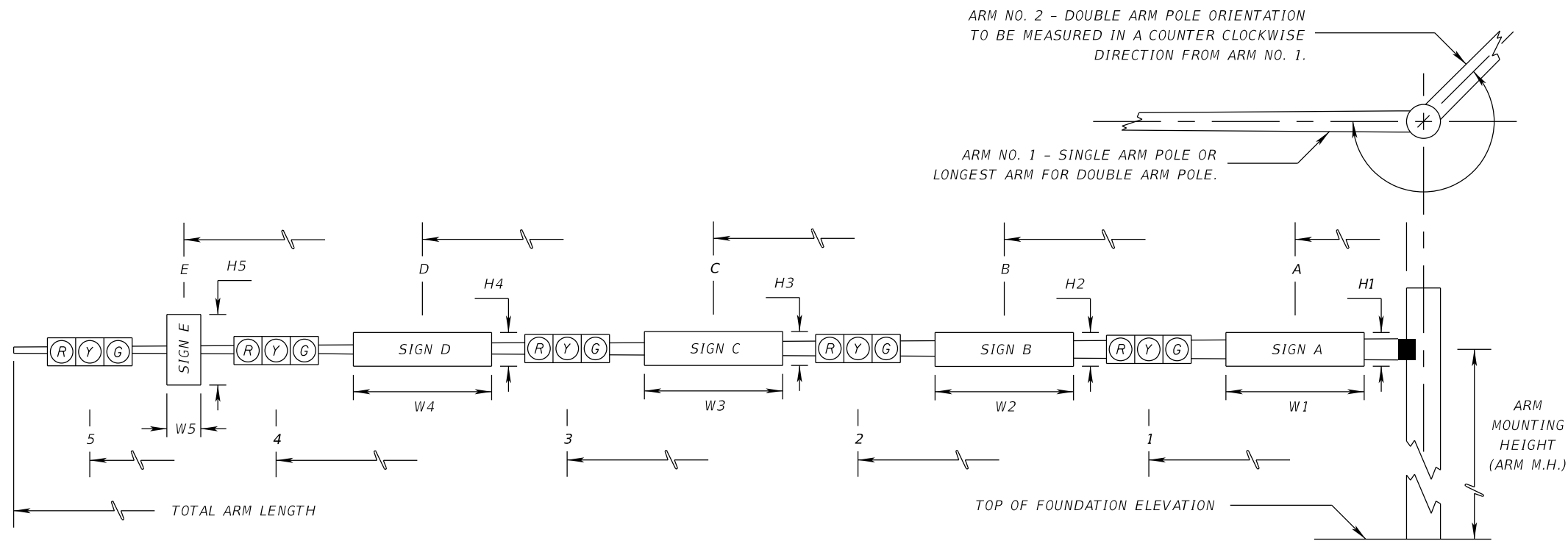
1. MAJOR ROAD: PARKER AVE
MINOR ROAD: SUMMIT BLVD
2. FLASHING OPERATION:
2+6 YELLOW
ALL OTHERS RED
3. SPEED LIMITS:
MAJOR ROAD - 30 MPH
MINOR ROAD - 35 MPH
4. SIGNS "A", "B", "C" AND "D" ARE
INTERNALLY ILLUMINATED (INS).
5. CURB RAMP DESIGN TO BE
PROVIDED BY CITY FOR NEXT
SUBMITTAL.

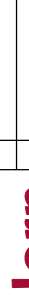
REMOVAL ITEMS



SHEET NUMBER		DATE	
6-5			
PARKER AVENUE		KIMLEY-HORN & ASSOCIATES, INC.	
STREETSCAPE		LISCENSED PROFESSIONAL	
PREPARED FOR		ADAM B. KERR	
CITY OF WEST PALM BEACH		FL LICENSE NUMBER	
WEST PALM BEACH		PE# 64773	
FL		DRAWN BY	
		CHECKED BY	
		DATE:	
SIGNALIZATION PLAN		1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411	
		PHONE: 561-845-0665 FAX: 561-863-8175	
		WWW.KIMLEY-HORN.COM CA 00000696	

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[illegible]

PARKER AVENUE STREETSCAPE PREPARED FOR CITY OF WEST PALM BEACH WEST PALM BEACH	STANDARD MAST ARM TABULATION	FL	KHA PROJECT DATE SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	LICENSED PROFESSIONAL ADAM B. KERR FL LICENSE NUMBER PE# 64773 DATE:	 1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM CA 00000696	No.	REVISIONS	DATE	BY

