

TYPE D2 SYMBOLIC SIGNAL HEAD
LED COUNTDOWN TYPE
P1-P8

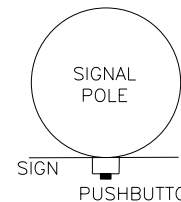
12" SIGNAL HEADS
WITH BACKPLATES

PEDESTRIAN SIGNAL HEAD (P)

TYPICAL PUSHBUTTON INSTALLATION



R10-4B-9
9"X12"
SB-1,2,3,4



NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL POWER CABLE FROM THE GROUND MOUNTED CONTROLLER TO EX. POWER POLE AT NW CORNER.
2. THE CONTROL CABINET DOOR SHALL BE LOCATED ON THE NORTH SIDE OF THE CABINET. CABINET FOUNDATION SHALL BE TYPE 2.
3. ALL STATIONS AND OFFSETS REFER TO THE CENTERLINE OF SR 254.
4. CONDUIT FOR SIGNAL WIRE SHALL BE INSTALLED IN TRENCH UNLESS OTHERWISE NOTED.
5. PULL BOX UNDERDRAINS SHALL BE TIED TO ROAD UNDERDRAINS UNLESS POSITIVE DRAINAGE CAN NOT BE ACHIEVED.

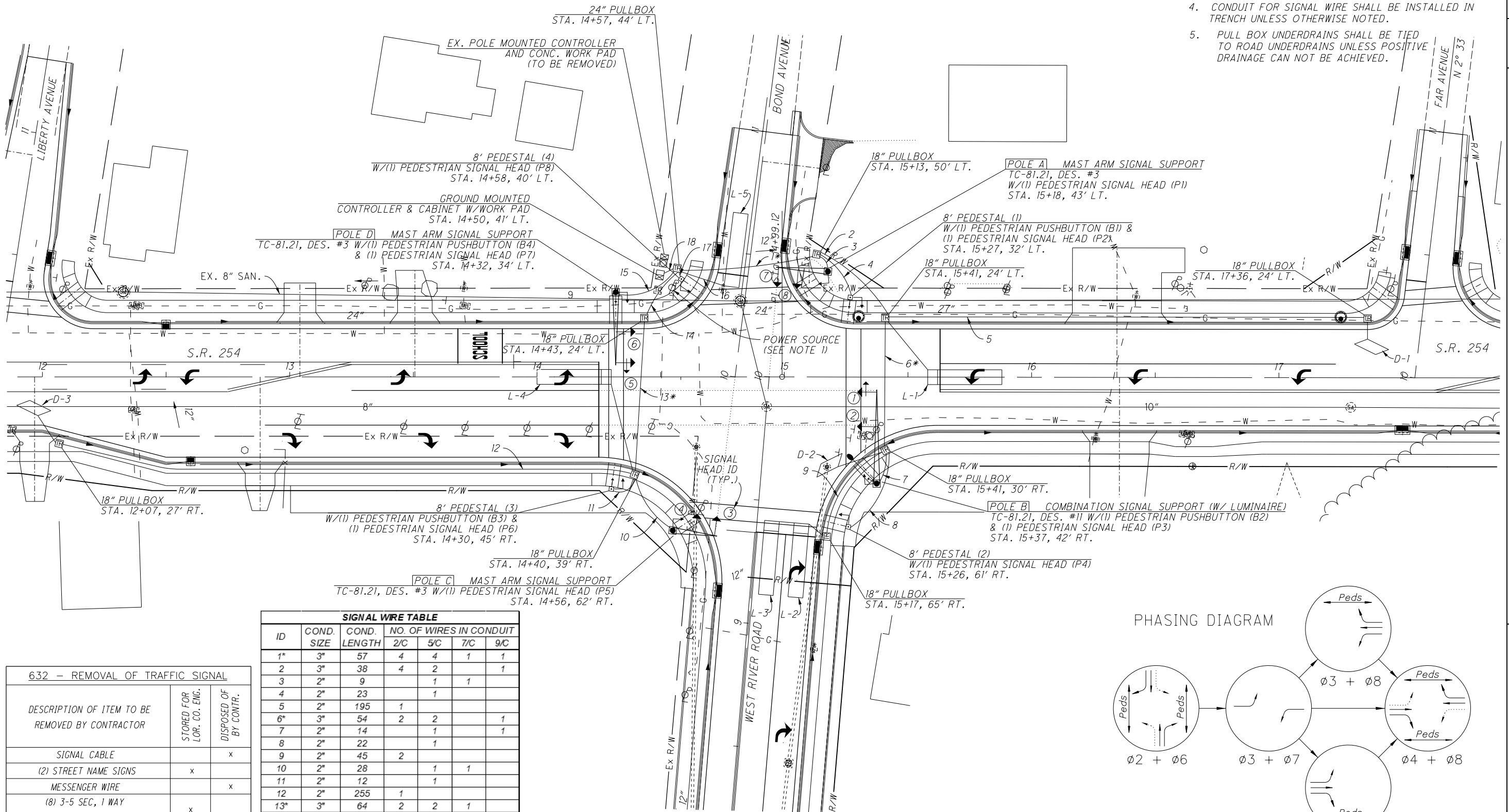


CALCULATED
DWO
CHECKED
SPK

TRAFFIC SIGNAL PLAN
S.R. 254 AND WEST RIVER RD.

LOR-254-0.01

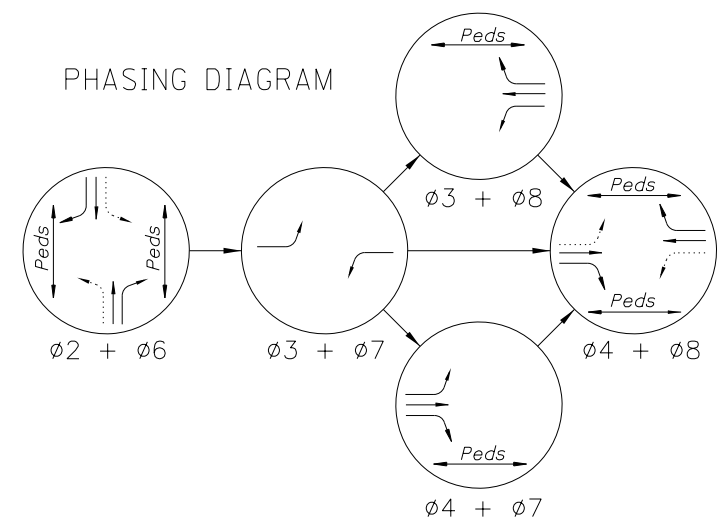
143
185



SIGNAL WIRE TABLE						
ID	COND. SIZE	COND. LENGTH	NO. OF WIRES IN CONDUIT			
			2/C	5/C	7/C	9/C
1*	3"	57	4	4	1	1
2	3"	38	4	2		1
3	2"	9		1	1	
4	2"	23		1		
5	2"	195	1			
6*	3"	54	2	2		1
7	2"	14		1		1
8	2"	22		1		
9	2"	45	2			
10	2"	28		1	1	
11	2"	12		1		
12	2"	255	1			
13*	3"	64	2	2	1	
14	2"	22	2	2	1	
15	2"	30		1		1
16	NOT USED					
17	2"	5		1		
18	4"	8	7	8	2	2

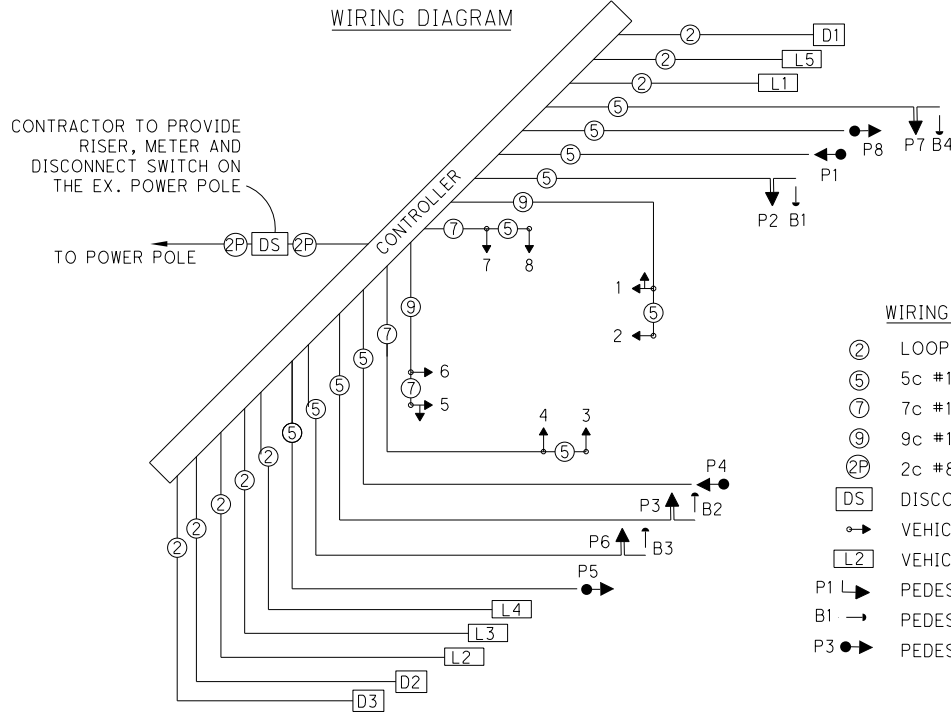
* JACKED OR DRILLED CONDUIT

PHASING DIAGRAM



PROTECTED VEHICULAR MOVEMENT ———→
PERMITTED VEHICULAR MOVEMENT→

N:\Jobs\2012\12674 - LOR-254-0.00\83793\roadway\sheets\83793CD001.dgn

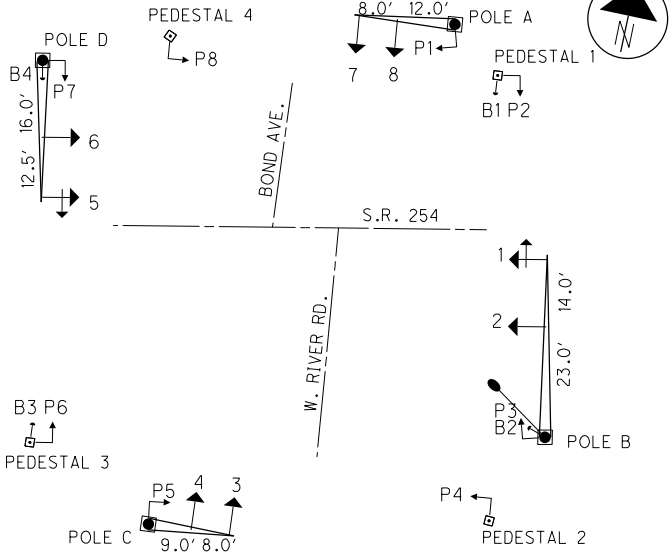
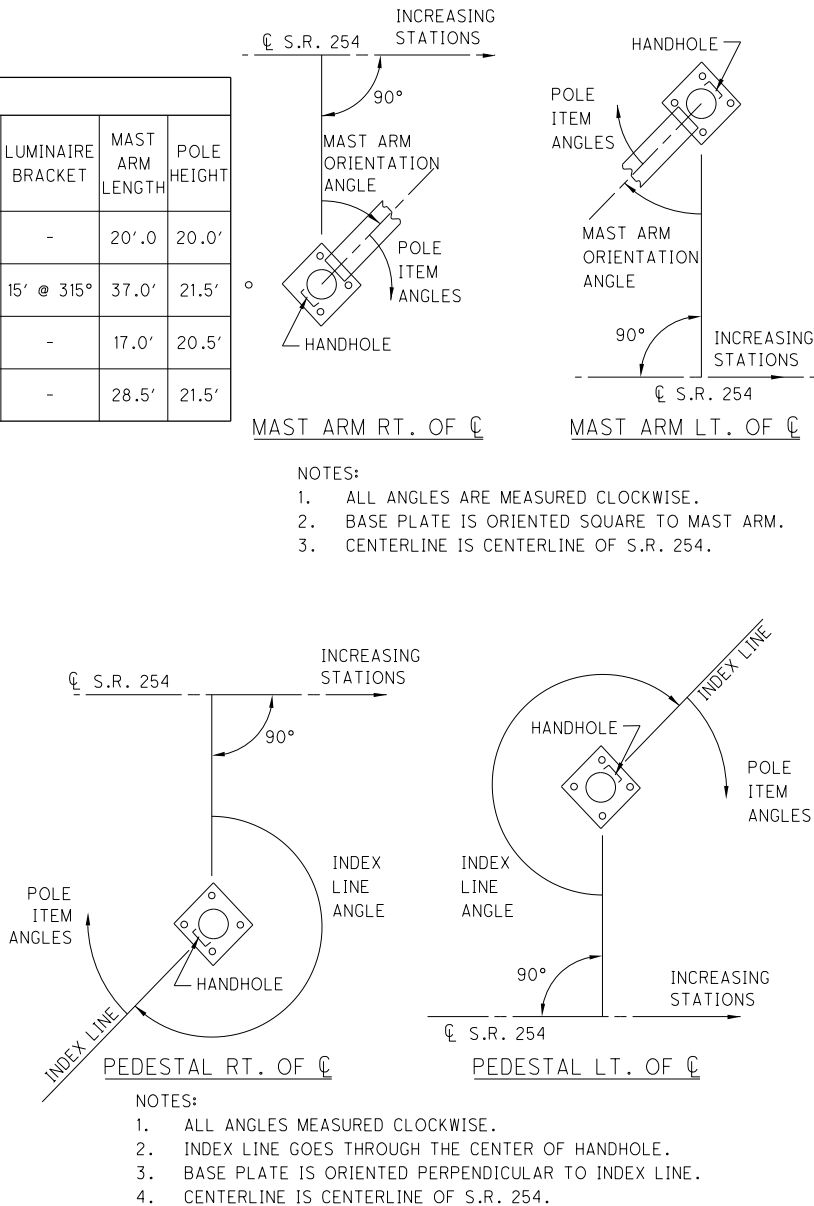


MAST ARM ORIENTATION/FABRICATION CHART												
POLE	DESIGN NO.	STATION AND OFFSET	MAST ARM ANGLE	CABLE ENTRANCE	3" CAPPED CONDUIT ELL (FUTURE USE)	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	ELEV. A (T/P)*	ELEV. B (FDN)*	LUMINAIRE BRACKET	MAST ARM LENGTH	POLE HEIGHT
A	TC-81.21 DESIGN 1	15+18 43' LT	94°	180°	0°	260°	-	673.42	673.82	-	20'.0	20.0'
B	TC-81.21 DESIGN 3	15+37 42' RT	0°	180°	0°	265°	300°	672.96	673.16	15' @ 315°	37.0'	21.5'
C	TC-81.21 DESIGN 1	14+56 62' RT	97°	180°	0°	0°	-	672.11	673.01	-	17.0'	20.5'
D	TC-81.21 DESIGN 2	14+32 34' LT	0°	180°	0°	270°	0°	673.28	673.48	-	28.5'	21.5'

* - FOR EXPLANATION OF ELEVATIONS A & B SEE SHEET 145

PEDESTAL ORIENTATION CHART					
PEDESTAL	STATION & OFFSET	INDEX ANGLE	PED. HEAD HEIGHT	PED. HEAD ANGLE	PUSH BUTTON ANGLE
1	15+27, 32' LT	187°	8'	83°	180°
2	15+26, 61' RT	104°	8'	261°	-
3	14+30, 45' RT	188°	8'	262°	180°
4	14+58, 40' LT	125°	8'	240°	-

FOR ADDITIONAL PEDESTAL DETAILS, SEE SCD TC-83.20



LOOP DETECTOR SCHEDULE							
LOOP	CONFIGURATION	DETECTOR UNIT	CHANNEL NO.	SIZE	DELAY (SEC.)	MODE	PHASE
L1	POWERHEAD	1	1	30'x6'	5	PRESENCE	WBLT
L2	POWERHEAD	2	1	30'x6'	5	PRESENCE	NBRT
L3	POWERHEAD	3	1	30'x6'	5	PRESENCE	NB
L4	POWERHEAD	4	1	30'x6'	5	PRESENCE	EBLT
L5	POWERHEAD	5	1	30'x6'	5	PRESENCE	SB
D1	ADD	6	1	7'x14'	-	PULSE	WB
D2	ADD	7	1	7'x14'	-	PULSE	NBLT
D3	ADD	8	1	7'x14'	-	PULSE	EB

NOTE: LOOP DETECTORS AS PER STD. DWG. TC-82.10

Q U A N T I T I E S						
	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHT.	
625	25400	660	FT	CONDUIT, 2", 725.04		
625	25500	38	FT	CONDUIT, 3", 725.04		
625	25600	8	FT	CONDUIT, 4", 725.04		
625	25900	175	FT	CONDUIT, JACKED OR DRILLED, 3"		
625	29000	706	FT	TRENCH		
625	30701	10	EACH	PULLBOX, 725.08, 18", AS PER PLAN	143,143A	
625	30707	1	EACH	PULLBOX, 725.08, 24", AS PER PLAN	143	
625	32001	9	EACH	GROUND ROD, AS PER PLAN		
625	36000	706	FT	PLASTIC CAUTION TAPE		
632	04913	6	EACH	VEHICULAR SIGNAL HEAD, (LED) YELLOW, 3 SECTION, 12" LENS, 1-WAY, WITH BACKPLATE, AS PER PLAN	144	
632	04923	2	EACH	VEHICULAR SIGNAL HEAD, (LED) YELLOW, 5 SECTION, 12" LENS, 1-WAY, WITH BACKPLATE, AS PER PLAN	144	
632	20720	8	EACH	PEDESTRIAN SIGNAL HEAD, (LED), TYPE D2	143	
632	25001	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN		
632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD		
632	26000	4	EACH	PEDESTRIAN PUSHBUTTON	143	
632	26500	12	EACH	DETECTOR LOOP	143,143A	
632	27009	8	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN		
632	40200	1256	FT	SIGNAL CABLE, 2-CONDUCTOR, NO. 14 AWG		
632	40500	1028	FT	SIGNAL CABLE, 5-CONDUCTOR, NO. 14 AWG		
632	40700	353	FT	SIGNAL CABLE, 7-CONDUCTOR, NO. 14 AWG		
632	40900	361	FT	SIGNAL CABLE, 9-CONDUCTOR, NO. 14 AWG		
632	64011	4	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN		
632	64020	4	EACH	PEDESTAL FOUNDATION		
632	65200	1583	FT	LOOP DETECTOR LEAD-IN CABLE		
632	67200	20	FT	POWER CABLE, 2-CONDUCTOR, NO. 8 AWG		
632	70001	1	EACH	POWER SERVICE, AS PER PLAN	143	
632	80202	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1	143	
632	80302	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2	143	
632	80990	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3	143	
632	89600	4	EACH	PEDESTAL, 8'	143	
632	90101	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	143	
633	01581	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN	143	
633	67000	1	EACH	CABINET RISER	143	
633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	143	
633	67200	1	EACH	CONTROLLER WORK PAD	143	
633	75001	1	EACH	UNINTERRUPTABLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN, WITHOUT ENCLOSURE	147	
QUANTITIES CARRIED TO SHEET 26						

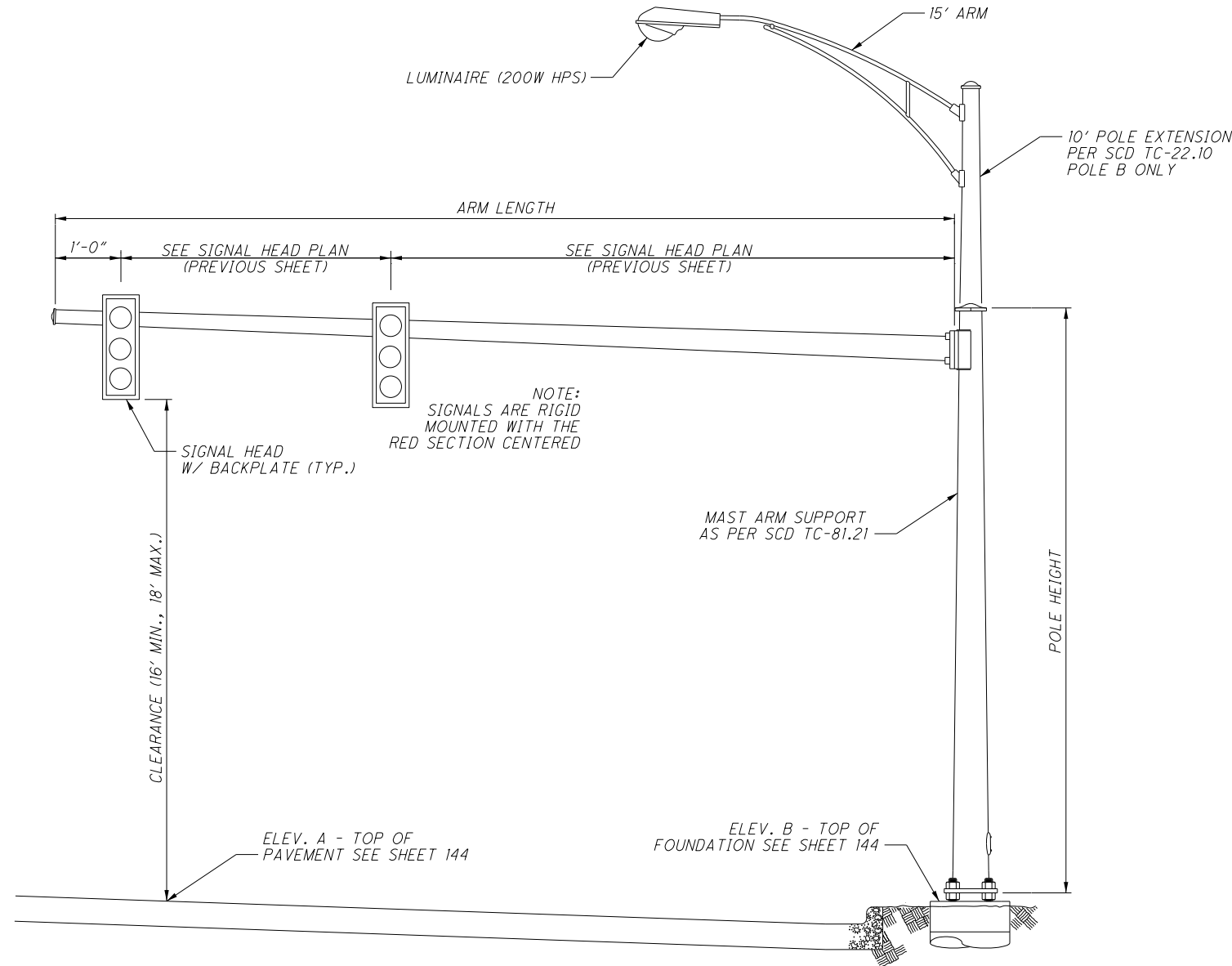
CALCULATED
DWO
CHECKED
SPK

SIGNAL DETAILS
S.R. 254 AND WEST RIVER ROAD

LOR-254-0.01

144
185

N:\Jobs\2012\12674 - LOR-254-0.00\83793\roadway\sheets\83793CD002.dgn



MAST ARM SIGNAL SUPPORT ELEVATION

SIGNAL TIMING IN SECONDS								
TIMING INTERVAL	SBLT ø1	NB ø2	EBLT ø3	WB ø4	NBLT ø5	SB ø6	WBLT ø7	EB ø8
MAX. GREEN I	45	56	17	12	66	45	12	17
MAX. GREEN II								
YELLOW CLEAR	3	3	3	3	3	3	3	3
RED CLEAR	2	2	2	2	2	2	2	2
MAX. INITIAL								
MIN. INITIAL								
ADDED INITIAL/ACT.								
PRESET EXTENSION								
MIN. EXTENSION								
TIME BEFORE REDUCT								
TIME TO MIN. EXT.								
PED. WALK	4	4	4	4	4	4	4	4
PED. CLEAR	14	14	16	15	14	14	16	16
RECALL/MEMORY MODE	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK	OFF/NONLOCK

NOTE: PED. CLEAR CALCULATED FROM BEGINNING OF CROSSWALK TO THE CENTER OF THE FARTHEST LANE.

FIELD WIRING HOOK-UP CHART			
SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
1 (EBLT)	R	ø7 R	Y
	Y	ø7 Y	
	G	ø7 G	
	←Y	ø7 Y	
2 (EB)	R	ø4 R	Y
	Y	ø4 Y	
	G	ø4 G	
	←G	ø4 G	
3 & 4 (SB)	R	ø6 R	R
	Y	ø6 Y	
	G	ø6 G	
	←G	ø6 G	
5 (WBLT)	R	ø3 R	Y
	Y	ø3 Y	
	G	ø3 G	
	←Y	ø3 Y	
6 (WB)	R	ø8 R	Y
	Y	ø8 Y	
	G	ø8 G	
	←G	ø8 G	
7 & 8 (NB)	R	ø2 R	R
	Y	ø2 Y	
	G	ø2 G	
	←G	ø2 G	

CALCULATED
DWO
CHECKED
SPK

SIGNAL DETAILS
S.R. 254 AND WEST RIVER ROAD

LOR-254-0.01

145
185