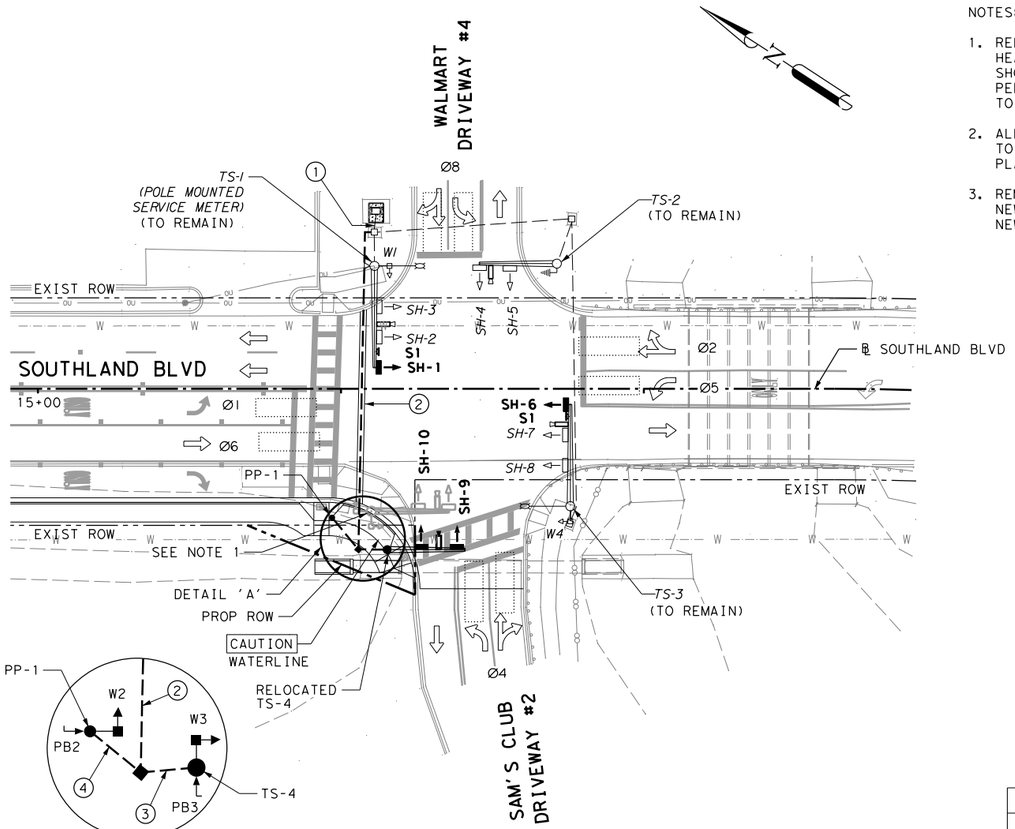
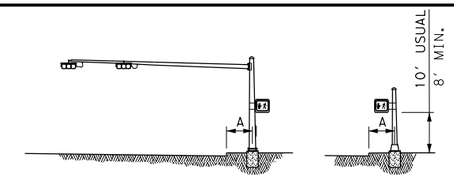


POLES TS-4 & PP-1
DETAIL 'A'
NTS

NOTES:

1. RELOCATE EXISTING SIGNAL POLE, SIGNAL HEADS, PUSH BUTTONS AND VIVDS CAMERA AS SHOWN ON THE PLAN. RELOCATE EXISTING PEDESTRIAN HEAD W2 AND PUSH BUTTON PB2 TO PROPOSED PEDESTAL POLE PP-1.
2. ALL OTHER EXISTING SIGNAL EQUIPMENTS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLAN.
3. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS FOR SH-1 & SH-6. CONNECT NEW SIGNAL HEADS TO EXISTING CABLES.



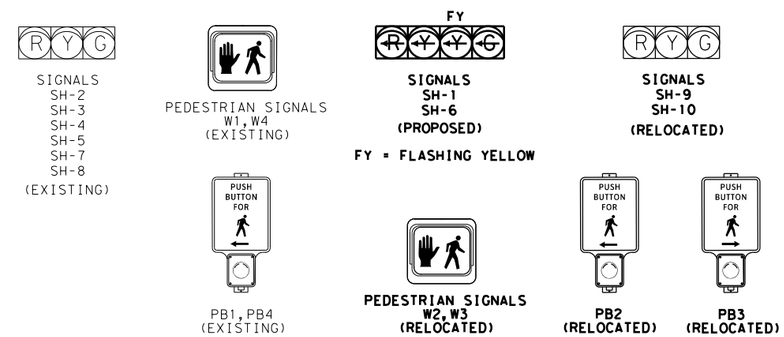
SIGNAL POLE PEDESTAL POLE

SIGNAL POLE LOCATION			
POLE	A	STATION	OFFSET
TS-4	**4.5'**	**16+09.00**	**45.73' RT**
TS-1		*EXISTING*	
TS-2		*EXISTING*	
TS-3		*EXISTING*	
PP-1	**5'**	**16+15.89**	**53.31' RT**

LEGEND

- EXIST SIGNAL POLE
- EXIST MAST ARM
- EXIST SIGNAL CONTROLLER
- EXIST METER AND DISCONNECT
- EXIST HORIZONTAL SIGNAL HEAD
- EXIST PEDESTRIAN SIGNAL
- EXIST PUSH BUTTON
- EXIST LUMINAIRE WITH ARM
- EXIST ANTENNA
- EXIST GROUND BOX
- EXIST VIVDS CAMERA
- EXIST CONDUIT
- VIDEO DETECTION ZONE
- PROP PEDESTAL POLE
- RELOCATED SIGNAL POLE
- RELOCATED MAST ARM
- RELOCATED/NEW HORIZONTAL SIGNAL HEAD
- RELOCATED PEDESTRIAN SIGNAL
- RELOCATED PUSH BUTTON
- RELOCATED VIVDS CAMERA
- PROP MAST ARM SIGN
- PROP CONDUIT (TRENCH)
- PROP CONDUIT (BORE)
- PROP GROUND BOX, TYPE D
- TRAFFIC FLOW

SIGNAL HEAD SCHEDULE

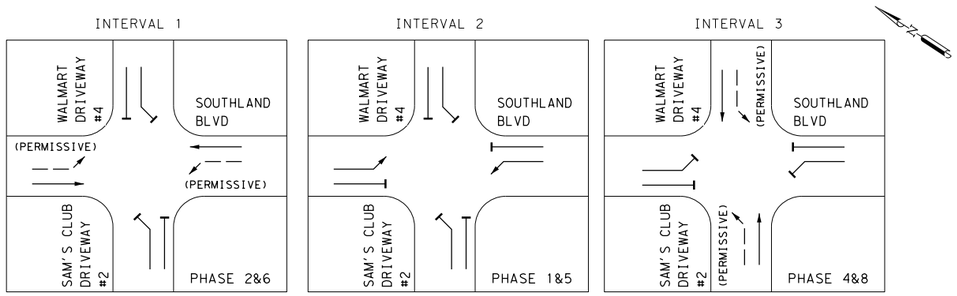


SUMMARY OF QUANTITIES				
ITEM	CODE	DESCRIPTION	UNIT	QTY
*0416	6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	LF	6
0416	6031	DRILL SHAFT (TRF SIG POLE) (30 IN)	LF	12
0618	6023	CONDT (PVC) (SCH 40) (2")	LF	14
0618	6029	CONDT (PVC) (SCH 40) (3")	LF	10
0618	6030	CONDT (PVC) (SCH 40) (3")(BORE)	LF	108
0620	6007	ELEC CONDR (NO.8) BARE	LF	140
0624	6010	GROUND BOX TY D (162922)W/APRON	EA	1
0684	6007	TRF SIG CBL (TY A)(12 AWG)(2 CONDR)	LF	30
0684	6010	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	35
0684	6025	TRF SIG CBL (TY A)(12 AWG)(20 CONDR)	LF	130
0686	6282	RELOC TRF SG PL AM(S)SNGL MST ARM POLE	EA	1
0687	6001	PED POLE ASSEMBLY	EA	1
0690	6024	REMOVAL OF SIGNAL HEAD ASSM	EA	2
0690	6025	REPLACE OF SIGNAL HEAD ASSM	EA	2
0690	6029	INSTALL OF SIGNAL RELATED SIGNS	EA	2
6002	6005	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	130

* SUBSIDIRARY TO ITEM 687

SUMMARY OF CONDUIT AND CABLES										
RUN NO	CONDUIT			LENGTH	GRND	SIGNAL			VIVDS	
	TRENCH 2"	TRENCH 3"	BORE 3"		#8 AWG (BARE)	2/C #12 AWG	5/C #12 AWG	20/C #12 AWG	*3/C-#16	COAXIAL
1		EXIST		8'				1	1	1
2			1	108'	1			1	1	1
3		1		10'	1	1	1	1	1	1
4	1			14'	1	1	1			
TOTAL	14'	10'	108'		132'	24'	24'	126'	126'	126'

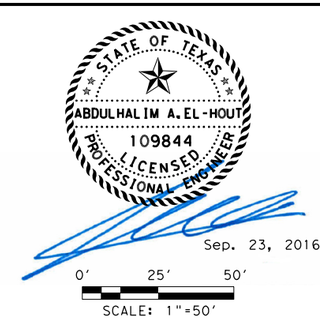
* SUBSIDIARY TO ITEM 6002



SEQUENCE CHART										
INTERVAL	PHASE 2&6			PHASE 1&5			PHASE 4&8			FLASHING OPERATIONS
SIGNAL FACE	R/W	CLEAR 2&6	CLEAR TO ALL PHASES	R/W	CLEAR 1&5	CLEAR TO ALL PHASES	R/W	CLEAR 4&8	CLEAR TO ALL PHASES	NORMAL AND EMERGENCY
SH-2, SH-3	G	Y	R	R	R	R	R	R	R	R
SH-1	<FY	<Y	<R	<G	<Y	<R	<R	<R	<R	<R
SH-7, SH-8	G	Y	R	R	R	R	R	R	R	R
SH-6	<FY	<Y	<R	<G	<Y	<R	<R	<R	<R	<R
SH-4, SH-5	R	R	R	R	R	R	G	Y	R	R
SH-9, SH-10	R	R	R	R	R	R	G	Y	R	R

SIGN DETAILS

R10-17T
30"X30"



REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

THE CITY OF SAN ANGELO TEXAS

SOUTHLAND BOULEVARD
SIGNAL MODIFICATION
AT SAM'S/WAL-MART DRIVEWAY

SHEET 2 OF 2

SHEET NO. 48

11:10:14 AM Sep. 23, 2016
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