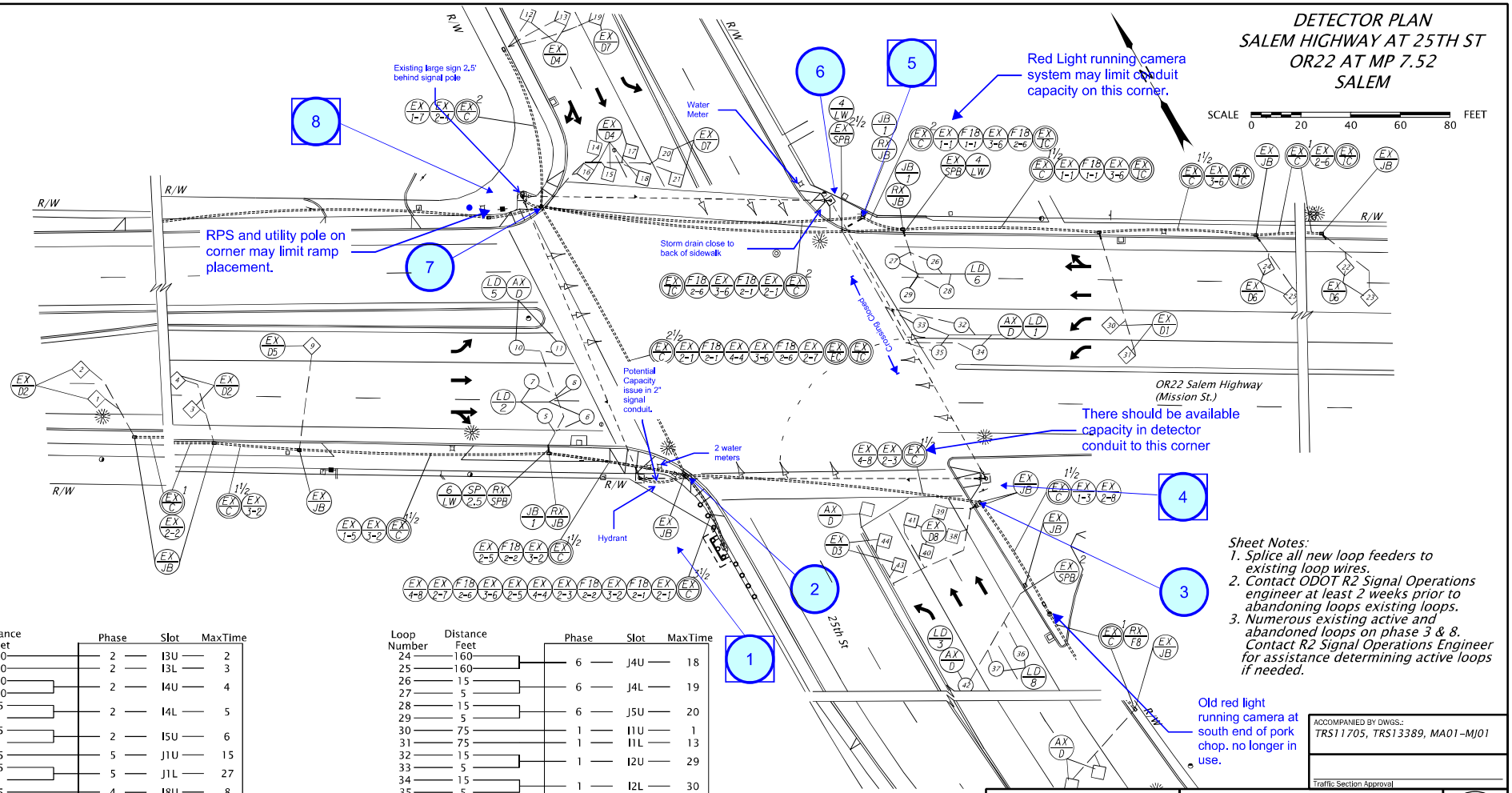
Loops and radar active.

DETECTOR PLAN
SALEM HIGHWAY AT 25TH ST
OR22 AT MP 7.52
SALEM



Sheet Notes:

1. *Splice all new loop feeders to existing loop wires.*
2. *Contact ODOT R2 Signal Operations engineer at least 2 weeks prior to abandoning loops existing loops.*
3. *Numerous existing active and abandoned loops on phase 3 & 8. Contact R2 Signal Operations Engineer for assistance determining active loops if needed.*

Loop Number	Distance Feet	Phase	Slot	MaxTime
1	320	2	I3U	2
2	320	2	I3L	3
3	160	2	I4U	4
4	160			
5	15	2	I4L	5
6	5			
7	15	2	I5U	6
8	5			
9	75	5	J1U	15
10	15	5	J1L	27
11	5			
12	75	4	I8U	8
13	75	4	I8L	9
14	15			
15	5	4	I9U	10
16	5			
17	15	4	I9L	11
18	5			
19	75	7	J6U	21
20	15	7	J6L	28
21	5			
22	320	6	J3U	16
23	320	6	J3L	17

Controller Cabinet

LOOP DETECTOR WIRING DIAGRAM
"Distance" is from Stop Line to center of loop in feet

Loop Number	Distance Feet	Phase	Slot	MaxTime
24	160	6	J4U	18
25	160			
26	15	6	J4L	19
27	5			
28	15	6	J5U	20
29	5			
30	75	1	I1U	1
31	75	1	I1L	13
32	15	1	I2U	29
33	5			
34	15	1	I2L	30
35	5			
36	75	8	J8U	22
37	75	8	J8L	23
38	15	8	J9U	24
39	5			
40	15	8	J9L	25
41	5			
42	75	3	I6U	7
43	15	3	I6L	14
44	5			

LOOP DETECTOR WIRING DIAGRAM (CONT.)
"Distance" is from Stop Line to center of loop in feet

ACCOMPANIED BY DWGS.:
TRS11705, TRS13389, MA01-MJ01

Traffic Section Approval

REGISTERED PROFESSIONAL ENGINEER
94,882
OREGON
MAY 14, 2019
CHRISTOPHER J. PRIMM
RENEWS: 12-31-2022

OREGON DEPARTMENT OF TRANSPORTATION

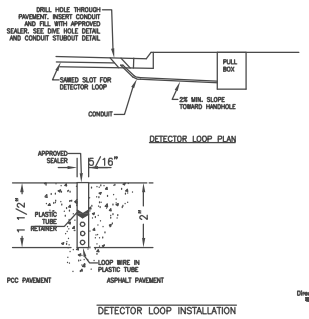
MISSION STREET:
17TH STREET - I-5 NORTH RAMPS
(SALEM) PROJECT
NORTH SANTIAM HIGHWAY
MARION COUNTY

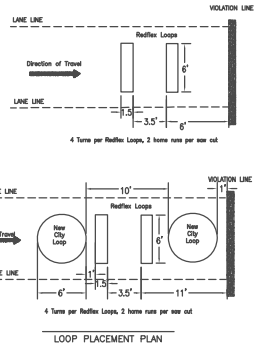
Designer: Chris Primm, PE	Reviewer: Christy LaFleur, PE
Drafter: Chris Primm	Checker: N/A

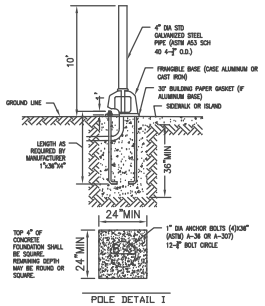
HWY: 072
M.P.: 7.52
UNIT FILE CODE: 21470
DFI/TSSU NO.: 03007

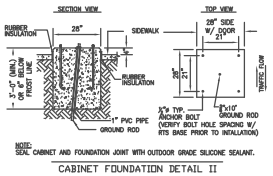
DETECTOR PLAN — SHEET NO. MD02

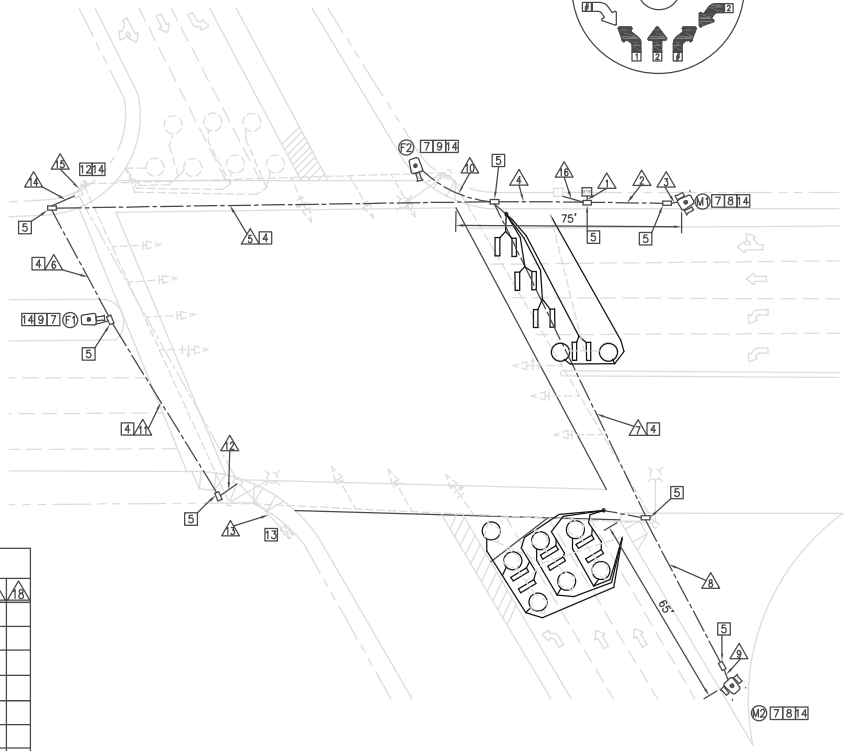
FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

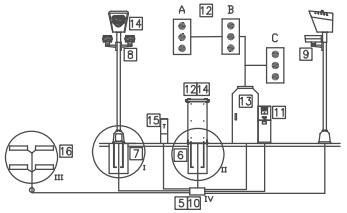












CONSTRUCTION NOTES

1. ALL SUBSTRUCTURES MUST BE LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL AND MUST NOTIFY ALL UTILITY COMPANIES WITHIN A MINIMUM OF 48 HOURS PRIOR TO START OF WORK.
2. REDFLEX WILL MEET WITH THE CONTRACTOR, CITY OFFICIALS, AND POLICE TO MARK THE EXACT LOCATION OF THE POLES AND CABINET PRIOR TO CONSTRUCTION.
3. TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIME. TEMPORARY SHUTDOWNS OR DISRUPTION MUST BE COORDINATED WITH THE CITY.
4. CONTRACTORS SHALL COMPLETE AS MANY POTHOLES AS NECESSARY. CONDUIT TO BE BORED UNDER ROADWAY. ALL BORE SHOTS SHALL BE DONE AT THE REQUIRED DEPTH TO MEET THE CITY STANDARDS.
5. INSTALL JB-1(12" x 17" x 12") CONCRETE JUNCTION BOX PER ODOT STANDARDS.
6. INSTALL FOUNDATION AND REDFLEX CONTROL CABINET. INSTALL 5/8" X 10' GROUND ROD AND BOND TO CABINET WITH #8 BARE CU. SEE CABINET FOUNDATION DETAIL.
7. INSTALL FOUNDATION AND POLE FOR REDFLEX EQUIPMENT. CONNECT POLE TO SOLID STRANDED BOND GROUND. SEE DRAWING FOR LOCATION. SEE POLE DETAIL.
8. INSTALL CAMERA AND (2) 250 WATT FLASH ENCLOSURES ON REDFLEX POLE, AIM AT MONITORED APPROACH.
9. INSTALL CAMERA AND 500 WATT FLASH ENCLOSURE ON REDFLEX POLE, AIM AT VIOLATION LINE.
10. ALL SPARE CONDUCTORS/WIRES SHALL TERMINATE AT THE PULL BOXES AND IN THE CAMERA AND FLASH ENCLOSURES, THE CONTROL CABINETS. SPARE WIRES SHALL BE TAPED AT THE END, CONTINUES IN LENGTH AND IDENTIFIABLE WITH PERMANENT IDENTIFICATION BAND AND TAG AS "RTS PROPERTIES".
11. CONTRACTOR SHALL TERMINATE ALL POWER CIRCUITS INTO REDFLEX CABINET. INSTALL 40 AMP BREAKER INTO EXISTING CITY METER PEDESTAL FOR 120V SUPPLY TO RTS CABINET.
12. INSTALL INLINE FUSE HOLDER ON RED PHASE CONDUCTOR WITH 5 AMP FUSE INSIDE REDFLEX CABINET, TO PROTECT CITY TRAFFIC CABINET.
13. INSTALL SOLID STATE RELAY (SSR) DEVICE ON EACH SEPARATE RED INDICATION IN ODOT CABINET. NO DIRECT CONNECTION TO RED PAHSING SHALL BE ALLOWED. SEE CONDUCTOR SCHEDULE FOR APPROACHES AND SEE DETAIL. (NOTE: SCHEDULE CONTROLLER CABINET ACCESS WITH ODOT REGION 2 ELECTRICIAN AT (503) 986-2706 AT LEAST 48 HOURS BEFORE WORK IS TO OCCUR.)
14. TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT (HOT & NEUTRAL). CONNECT TO SOLID STRANDED BOND GROUND.
15. INSTALL DSL DROP INTO RTS CABINET.
16. INSTALL LOOPS AND CONDUIT STUB OUT FOR REDFLEX DETECTION. EACH LOOP MUST HAVE A SEPARATE HOME RUN AND LOOP LEAD IN CABLE. MAXIMUM 4 LOOPS PER SAW CUT. REDFLEX LOOPS TO BE LABELED AT REDFLEX CABINET. REPLACE CITY LOOPS IF REQUIRED TO CITY STANDARDS. SEE LOOP DETECTOR INSTALLATION DETECTOR LOOP PLACEMENT DETAIL.

CONDUCTORS				CONDUITS TERMINATION REDFLEX CABINET																
SOURCE		AWG#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
APPROACH ⊕	POLE (M1)	CAT5	SHIELD 4 PAIR	3	3	3															
		#10	BLACK ⊕ WHITE ⊖	2	2	2															
	POLE (F1)	CAT5	SHIELD 4 PAIR	1			1	1	1												
		#10	BLACK ⊕ WHITE ⊖	2			2	2	2												
APPROACH ⊖	POLE (M1)	CAT5	SHIELD 4 PAIR	3			3			3	3	9									
		#10	BLACK ⊕ WHITE ⊖	2			2			2	2	2									
	POLE (F1)	CAT5	SHIELD 4 PAIR	1			1						1								
		#10	BLACK ⊕ WHITE ⊖	2			2						2								
REDFLEX	LOOP LEAD-IN	DLC	GROUNDED	12	12					6											
	COMMUNICATION	PHONE WIRE	SHIELD 2 PAIR	1															1		
	STRANDED BOND	#8	GREEN	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
CITY	TRAFFIC RED PHASE	#14	RED ⊕ ORANGE ⊕ WHITE ⊖	10			10	10	10					10	10	10					
	POWER PEDESTAL (120V)	#8	BLACK ⊕ WHITE ⊖	2			2										2	2			
TOTAL	TOTAL NEW CONDUCTORS			42	18	6	24	14	14	12	6	12	4	11	11	11	2	2	1		
	CONDUIT SIZE (INCHES)			2(3)	3	2	3	2	2	2	2	2	2	2	2	3	2	3	2		
	NEW/EXISTING CONDUIT			N	N	N	N	N	N	N	N	N	N	N	N	E	N	E	N		
AS BUILT	CONDUIT LENGTH FT.																				
	CONDUIT DEPTH IN.																				

LEGEND

- #5 JUNCTION BOX
- RTS LOOPS
- TRAFFIC CONTROL CABINET
- POWER CABINET
- RTS REDFLEX CONTROL CABINET
- CAMERA W/FLASH
- PLATE FLASH

CITY OF SALEM, OR
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
RED LIGHT PHOTO ENFORCEMENT ON SALEM (MISSION) HWY & 25TH ST.

PLAN SCALE: 1" : 20'

PROJECT CODE: XXXX-MI25-A

SIGNATURE

RED LIGHT PHOTO ENFORCEMENT CAMERAS A PRODUCT OF:
REDFLEX TRAFFIC SYSTEMS
6076 BRISTOL PKWY, SUITE 100
CULVER CITY, CA 90230
PH: 310 642 0470

REVISIONS
DESCRIPTION

DESIGNED BY: JOHN BARKE
DRAWN BY: CARLOS FLATAYO
CHECKED BY:

SUBMITTED BY:
APPROVED BY:
CITY ENGINEER DATE

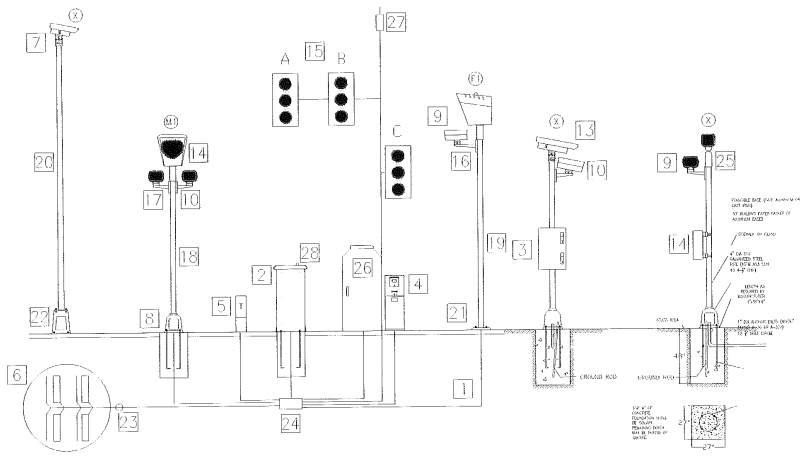
PLAN NO.

SHEET NO. 1 OF 1

			1 CAT 5	2 ROADSIDE CABINET	3 POLE MOUNTED CAB	4 POWER PEDESTAL	5 PHONE PEDESTAL	6 PIEZO LOOPS	7 VIDEO LOOPS
	(M1)		–	–	–			–	–
	(F1)								
	(X1)	HEIGHT	8 POLE BASE	9 500 WATT FLASH	10 250 WATT FLASH	11 MKIII	12 MKIV	13 SLIM	14 MINI POLE
APPROACH-①	POLE (M1)	10'	–	–	–	–	–	–	–
	POLE (F1)	10'							
	POLE (X1)	10'	–	–	–	–	–	–	–
APPROACH②	POLE (M2)	10'	–	–	–	–	–	–	–
	POLE (F2)	10'	–	–	–	–	–	–	–
	POLE (X2)	10'	–	–	–	–	–	–	–
	TOTAL		–	–	–	–	–	–	–

NOTES:

L.E.D. COUNTS 15		ARROW REPLACEMENT RED	ARROW REPLACEMENT AMBER	BALL REPLACEMENT RED	BALL REPLACEMENT AMBER
A	8"	–	–	–	–
	12"	–	–	–	–
B	8"	–	–	–	–
	12"	–	–	–	–
C	8"	–	–	–	–
	12"	–	–	–	–
TOTAL		–	–	–	–



1 CAT 5	8 POLE BASE (PELCO)	15 L.E.D. COUNTS	22 POLE BASE FOR VIDEO LOOP
2 ROADSIDE CABINET	9 500 WATT FLASH	16 LONG FLASH ARMS	23 HAND HOLE DEFECTOR
3 POLE MOUNTED CABINET	10 250 WATT FLASH	17 SHORT FLASH ARMS	24 PULL BOX
4 POWER PEDESTAL	11 MKIII	18 10' POLE	25 ENCLOSURE MOUNT FOR SLIM
5 PHONE PEDESTAL	12 MKIV	19 12' POLE	26 TRAFFIC CABINET
6 PIEZO LOOPS	13 SLIM	20 30' POLE	27 WIRELESS ANTENNA FOR COMM.
7 VIDEO LOOPS	14 MINI POLE	21 TYPE I-A POLE (D01)	28 WIRELESS ANTENNA FOR SPEED VAN

SYSTEMS	SUB-SYSTEMS	APPLICATION	COMPUTERS	CAMERAS SCENE	CAMERAS PLATE	CAMERAS FACE	LENSES SCENE	LENSES PLATE	LENSES FACE	SOFTWARE	CABINET EQUIPMENT
MKIII 11	WITH ROADSIDE CABINET	USE SLIM SYSTEM FOR W/CABINET	5716	2 MPICS	6 MPIC UP TO FOUR LANES 10 MPICS 6 LANES OR SPLIT LANES 12 MPICS DIFFICULT SHOTS	6 MPIC 1-3 LANES 120' SHOT 10-12 MPICS 4 LANES&UP OVER 120' SHOT 2-6 MPICS SPLIT LANE SLIM LANE & STD ENCLOSURE	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD.,SWITCH TO 4.8 IT BECOMES AVAILBLE	SDCM (LOOP-LOOP, PLP,PLPL,VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED,OTO-ISOLATOR SOLID STATE
MKIV 12	WITH ROADSIDE CABINET WITHOUT ROADSIDE CABINET	USE SLIM SYSTEM FOR FACE ENCL. CONTRACT MEDIAN INSTALLATION VIDEO LOOPS EXTERNAL COMMUNICATION C. MANAGER PREFERENCE	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES 10 MPICS 6 LANES OR SPLIT LANES 12 MPICS DIFFICULT SHOTS	6 MPIC 1-3 LANES 120' SHOT 10-12 MPICS 4 LANES&UP OVER 120' SHOT SPLIT LANE & SLIM LANE 2-6 MPICS	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD.,SWITCH TO 4.8 IT BECOMES AVAILBLE	SDCM (LOOP-LOOP, PLP,PLPL,VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED,OTO-ISOLATOR SOLID STATE
SLIM 13	POLE MOUNTED CABINET	POLEMOUNTED CABINET AS A PRIMARY SYS. WITH TWO SCENE ENCLOUSER AUXILLIARY FACE ON MKIII & MKIV MULTIPLE SLIM SYSTEM W/CABINET	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES 10 MPICS 6 LANES OR SPLIT LANES 12 MPICS DIFFICULT SHOTS	6 MPIC 1-3 LANES 120' SHOT 10-12 MPICS 4 LANES&UP OVER 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD.,SWITCH TO 4.8 IT BECOMES AVAILBLE	SDCM (LOOP-LOOP, PLP,PLPL,VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED,OTO-ISOLATOR SOLID STATE
MINI POLE 14	BIB POLE MOUNTED CABINET	USE ONE FOR POLE	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES 10 MPICS 6 LANES OR SPLIT LANES 12 MPICS DIFFICULT SHOTS	6 MPIC 1-3 LANES 120' SHOT 10-12 MPICS 4 LANES&UP OVER 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD.,SWITCH TO 4.8 IT BECOMES AVAILBLE	SDCM (LOOP-LOOP, PLP,PLPL,VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED,OTO-ISOLATOR SOLID STATE

CITY OF RIVERSIDE, CA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:

RED LIGHT PHOTO ENFORCEMENT ON XXXXX & XXXXX
BILL OF MATERIALS (BOM)

PLAN SCALE: NTS

PROJECT CODE

SIGNATURE

RED LIGHT PHOTO ENFORCEMENT CAMERAS A PRODUCT OF:

REDFLEX TRAFFIC SYSTEMS
6076 BRISTOL PKWY, SUITE 100
CULVER CITY, CA 90230
PH: 310 642 0470

REVISIONS

DESCRIPTION

DESIGNED BY: JOHN BABEK

DRAWN BY: CARLOS TLILAYATZI

DATE:

SUBMITTED BY:

APPROVED BY:

DATE

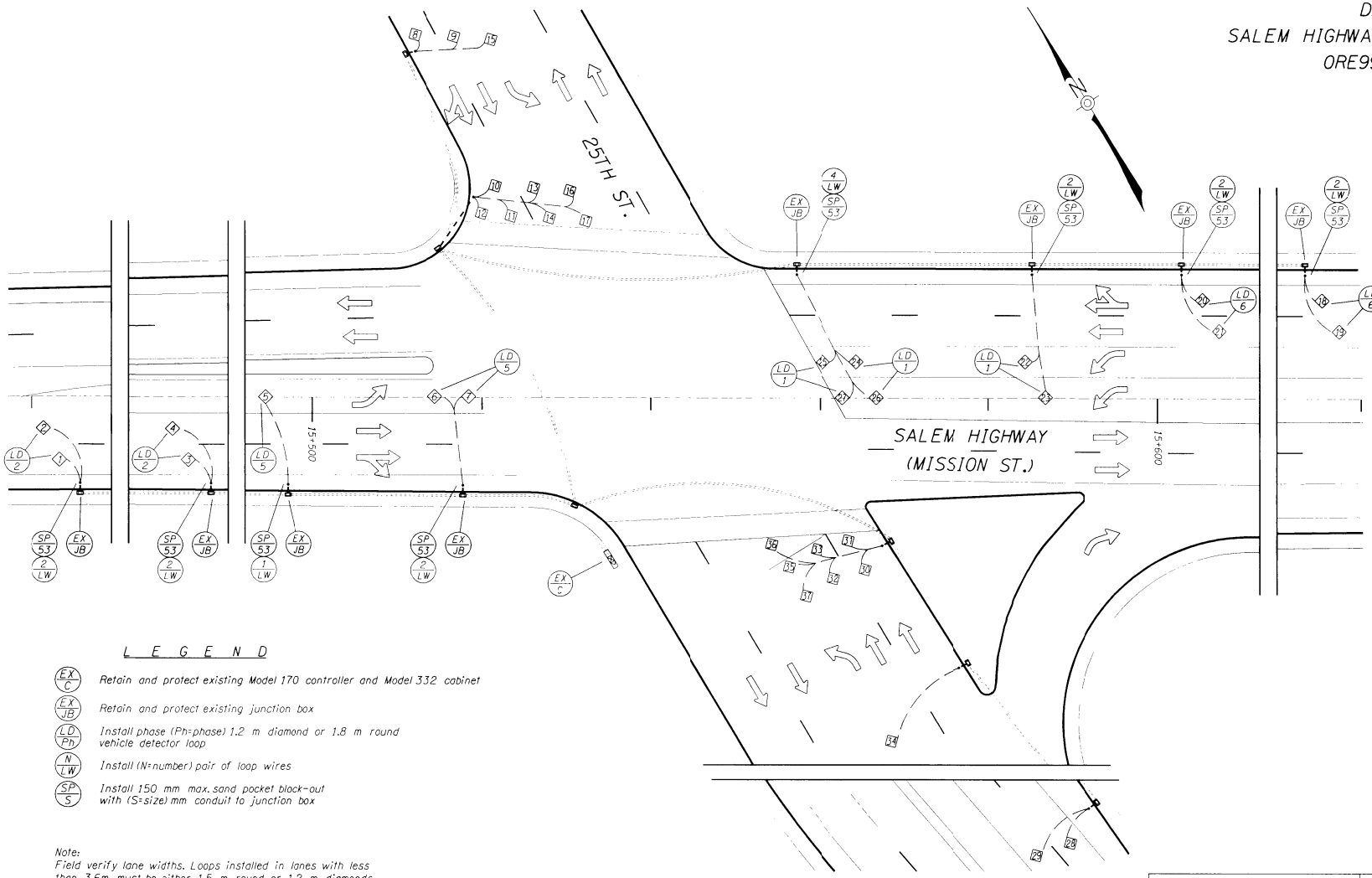
PLAN NO.

SHEET NO. 1 OF 1

13390

METRIC

DETECTOR PLAN
SALEM HIGHWAY (MISSION ST.) AT 25TH ST.
ORE99E BUS M.P. 7.54



Loop Number	Distance Meters	Phase	Slot	
1	100	2	12U	
2	100	2	12L	
3	50	2	13U	
4	50			
5	25	5	J1U	
6	5	5	J9U	
7	1			
8	25	4	16U	
9	25	4	16L	
10	5			
11	1			
12	1	4	17U	No Work
13	5			
14	1			
15	25	7	J5U	Controller Cabinet
16	5	7	J9L	
17	1			
18	100	6	J2U	
19	100	6	J2L	
20	50	6	J3U	
21	50			
22	25	1	11U	
23	25			
24	5			
25	1	1	19U	
26	5			
27	1			
28	60	8	J6U	
29	60	8	J6L	
30	5			
31	1	8	J7U	
32	5			No Work
33	1			
34	25	3	15U	
35	1			
36	-1	3	19L	
37	5			

LOOP DETECTOR WIRING DIAGRAM
"Distance" is from Stop Line to center of loop in meters

L E G E N D

- (EX / C) — Retain and protect existing Model 170 controller and Model 332 cabinet
- (EX / JB) — Retain and protect existing junction box
- (LD / Ph) — Install phase (Ph=phase) 1.2 m diamond or 1.8 m round vehicle detector loop
- (N / LW) — Install (N=number) pair of loop wires
- (SP / S) — Install 150 mm max. sand pocket block-out with (S=size) mm conduit to junction box

Note:
Field verify lane widths. Loops installed in lanes with less than 3.6m must be either 1.5 m round or 1.2 m diamonds.

Note:
Contractor is responsible for re-wiring and re-numbering of new and existing detector loops, in junction boxes and cabinet, to match wiring diagram. Splice new loops to existing loop feeders as needed.

REGISTERED PROFESSIONAL ENGINEER
50122
OREGON
JULY 11, 2000
SCOTT B. CRAMER
Expires Dec. 31, 2005

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC MANAGEMENT SECTION

TRAFFIC SIGNAL INSTALLATION

CHEMAWA ROAD - N SANTIAM INTERCHANGE
SALEM HIGHWAY
MARION COUNTY

DESIGNED BY: S. Cramer
CHECKED BY: T. Jenkins
DRAWN BY: S.Cramer
FC 72

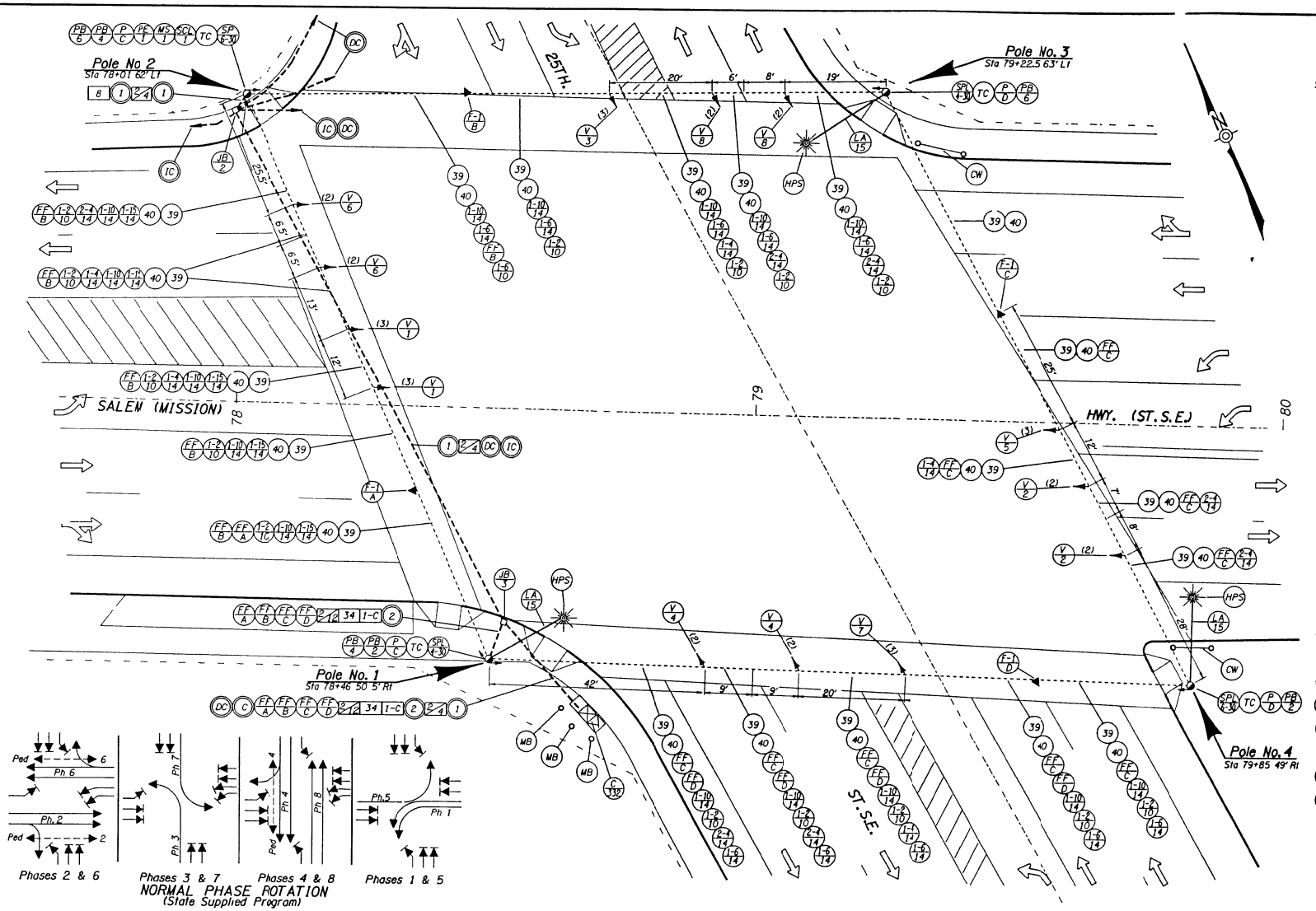
T.M.S. DWG. NO. 13390

\10807_Parkway\10807tr2.sg1 1/26/2004 2:44:44 PM

9902

SIGNAL PLAN
MISSION ST. AT 25TH. ST.
HWY. 72, M.P. 7.54

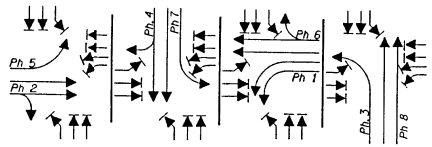
SCALE 0 10 20 40 FEET



L E G E N D

- Retain and protect existing power pole (Power source)
- Install model 170 controller in model 332 cabinet with riser frame, orient front(louvered) door as shown
- Install type (T), height (H) standard steel strain pole
- Install metal pole barrier
- Install phase (Ph) vehicle signal
- Install phase (Ph) programmed vehicle signal
- Install type (T) pedestrian signal
- Install phase (Ph) pedestrian pushbutton with instruction sign
- Install interior illuminated "LEFT TURN SIGNAL" sign
- Install 6"x8"x18" terminal cabinet with sectional terminal blocks as connectors
- Install 8"x16"x20" service cabinet, 120 volt for both signal and illumination circuits (See T E S Drwg TS-106)
- Install 120 volt meter base
- Install 22¼"x12¼"x13" precast concrete junction box
- Install 30"x17"x12" precast concrete junction box
- Install (N) No 8 type THWN (Signal system common)
- Install (N) No. 14 type THWN wires
- Install (N) No (G) type TW THW or THHN wires
- Install (X) - (N) No (G) control cables
- Install ⅜ inch galv steel messenger cable
- Install ¼ inch galv steel tether cable
- Install (S) inch electrical conduit
- Interconnect conduit (See Interconnect Plan)
- Detector conduit (See Detector Plan)
- Install channel (Ch), (N)-way fire pre-emption detector unit
- Install channel (Ch) fire pre-emption detector feeder cable
- nstall 250 watt high pressure sodium luminaire type M-N-III 120 volt regulator, multi-tap type ballast
- Install photoelectric cell on top of pole
- Install crosswalk closure barricade and sign (See T.E.S Drwg No. TS-104)
- Install (L) ft luminaire arm

NORMAL PHASE ROTATION
(State Supplied Program)



FIRE PRE-EMPTION OPERATION

L E G E N D (Cont.)

Install type (T) height (H) standard strain pole with luminaire pole extension (40 ft mounting height)

- H = Height shown
- T = Type shown
- L = Length shown
- Ph = Phase shown
- X = Number of cables shown
- N = Number shown
- G = AWG size shown
- S = Size shown
- Ch = Channel shown
- 2 = 12"R 12"Y 12"G
- 3 = 12"RLTA 12"YLTA 12"GLTA

12/92 As Constructed (Original Copy in File) (C11159)

REGISTERED PROFESSIONAL ENGINEER 12,197 JULY 15, 1983 KEITH R. RUDISILL

REGISTERED PROFESSIONAL ENGINEER 6458 JULY 11, 1980 JAMES O BUTLER

DESIGNED BY: K.R./H.N
CHECKED BY: P.W.W
DRAWN BY: C.J.W / D.H.W

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

TRAFFIC SIGNAL INSTALLATION
25TH. ST. - AIRPORT RD. (SALEM) SEC.
SALEM HIGHWAY
MARION COUNTY

DATE: January 1991
ACCOMPANIED BY DRGS. TS-100, TS-102, TS-103, TS-104, TS-105, TS-106, TS-107, TS-108, 40396, 40397, 9903, 9904, & 9905, 40398

T.E. DRG. NO. 9902

VIEW=A1

TR: 04460TR2A SP1 MICRO

DETECTOR AND REMOVAL PLAN
MISSION ST. AT 25TH. ST.
HWY. 72, M.P. 7.54

SCALE 0 20 40 80 FEET

N

LEGEND

- (C) Controller (See Signal Plan)
- (JB/CB) Junction box (See Signal Plan)
- (JB/1) Install 17¼"x10½"x12" precast concrete junction box
- (LF/Ph) Install phase (Ph) 4ft. diamond vehicle detector loop
- (LF/Ph) Install phase (Ph) 3ft. diamond vehicle detector loop
- (LF/Ph) Install (X) phase (Ph) loop feeder cables
- (N/LW) Install (N) pair of loop wires
- (S) Install (S) inch electrical conduit
- (EC) Electrical conduit (See Signal Plan)
- (IC) Interconnect conduit (See Interconnect Plan)

Ph = Phase shown
X = Number of cables shown
N = Number shown
S = Size shown

25TH.
60'
12'
4'
(MISSION) SALEM
60'
12'
4'
(ST. S.E.)
HWY.
60'
ST. S.E.
60'
79'
10'
81'
15'
EDGE OF SIDEWALK
Locate 320' from "STOP" line
Locate 180' from "STOP" line
Locate 180' from "STOP" line
Locate 320' from "STOP" line
Controller cabinet

Loop No.		Phase	Function	Slot
1		2	E,C	12U
2		2	E,C	12L
3	S	2	E,C	13U
4				
5		5	E,C,CO	J1U
6	S			
7		5	E,C	J9U
8		4	E,C,CO	16U
9		4	E,C,CO	16L
10				
11	S			
12		4	E,C	17U
13	S			
14				
15		7	E,C,CO	J5U
16	S			
17		7	E,C	J9L
18		6	E,C	J2U
19		6	E,C	J2L
20	S			
21		6	E,C	J3U
22	S			
23		1	E,C,CO	11U
24	S			
25		1	E,C	19U
26	S			
27				
28		8	E,C,CO	J6U
29		8	E,C,CO	J6L
30	S			
31		8	E,C	17U
32	S			
33				
34		3	E,C,CO	15U
35	S			
36		3	E,C	19L

S=Series, E=Extension, C=Call, CO=Carryover
See T.E.S. Drwg. TS-107 for loop detector details
Center all loops in travel lanes or as shown on plan

LOOP DETECTOR WIRING DIAGRAM

Note: All loops are to be individually wound clockwise and series wired at junction box or controller as shown on the Loop Detector Wiring Diagram.

Note:
Existing roadway and signal equipment shown as dashed lines.
Maintain existing signal equipment as temporary signal until new signal is turned on, unless contractor designs and supplies temporary signal during construction.
Remove existing signal as per standard specifications.

25TH.
MISSION ST. S.E.
ST. S.E.
RW

REMOVAL PLAN
No Scale

REGISTERED PROFESSIONAL ENGINEER 12,197 KEITH R. RUMPFELT JULY 31, 1990

REGISTERED PROFESSIONAL ENGINEER JAMES G. BUTLER JULY 31, 1990

DESIGNED BY K.R./H.N.
CHECKED BY P.W.W.
DRAWN BY C.J.W. / D.H.W.

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

TRAFFIC SIGNAL INSTALLATION
25TH. ST. - AIRPORT RD.(SALEM) SEC.
SALEM HIGHWAY
MARION COUNTY

DATE January 1991

T.E. DWG. NO. 9903

VIEW-81

9905

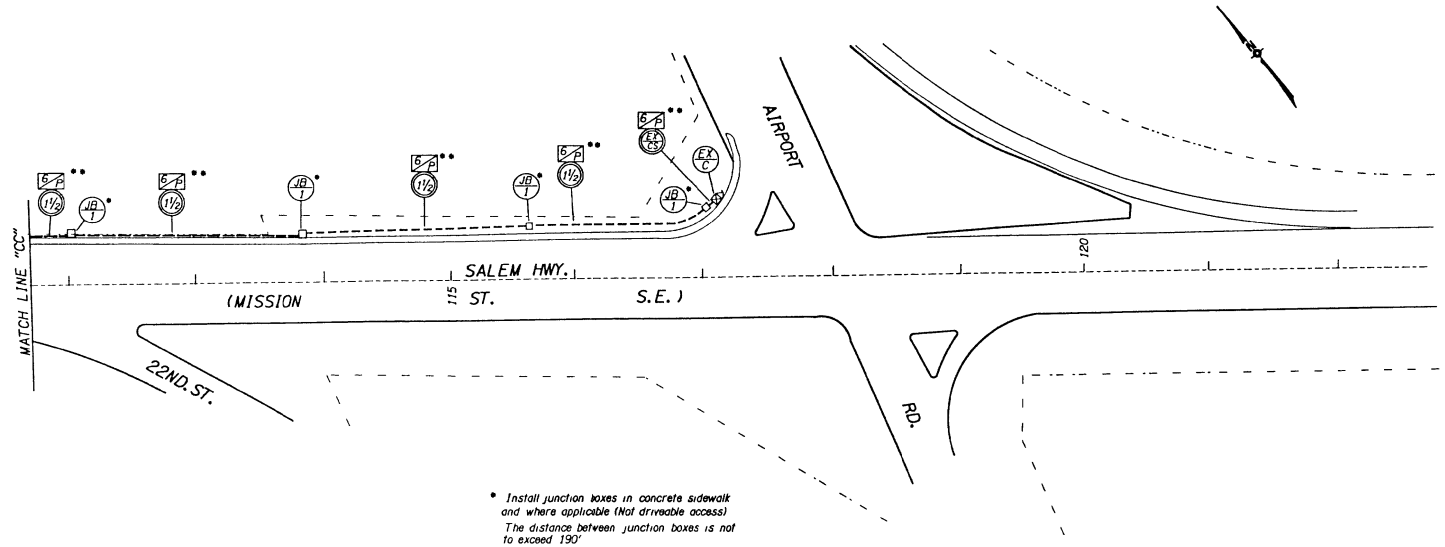
INTERCONNECT PLAN
MISSION ST., 22ND. ST. TO AIRPORT RD.
HWY. 72, M.P. 7.80 TO 7.92

SCALE 0 50 100 200 FEET

L E G E N D

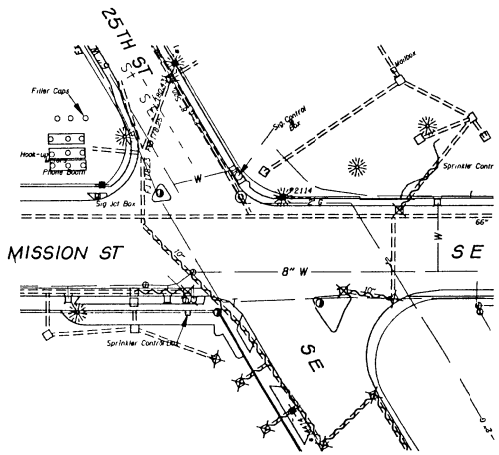
- EX C — Maintain and protect existing controller
- JB 1 — Install 17¼"x10½"x12" precast concrete junction box
- W P — Install (N) twisted pair interconnect cable
- S — Install (S) inch electrical conduit
- EX CS — Maintain and protect existing 2" conduit stub

N = Number shown
S = Size shown



* Install junction boxes in concrete sidewalk and where applicable (Not driveable access) The distance between junction boxes is not to exceed 190'

** Excavation for conduit shall comply to Section 661.32 of STANDARD SPECIFICATIONS



EXISTING INTERSECTION & UTILITIES

(No Scale)

12/92 As Constructed (Original Copy In File) (C11159)

REGISTERED PROFESSIONAL ENGINEER 12,197 JULY 15, 1993 KEITH R. RUDOSKI

REGISTERED PROFESSIONAL ENGINEER 6498 JULY 15, 1993 JAMES O. BUTLER

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

TRAFFIC SIGNAL INSTALLATION
25TH.- AIRPORT RD.(SALEM) SEC.
SALEM HIGHWAY
MARION COUNTY

DATE January 1991

DESIGNED BY: K R / H N.
CHECKED BY: P W W
DRAWN BY: C. J. W.

T.E. DWG. NO. 9905

VIEW=D2

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