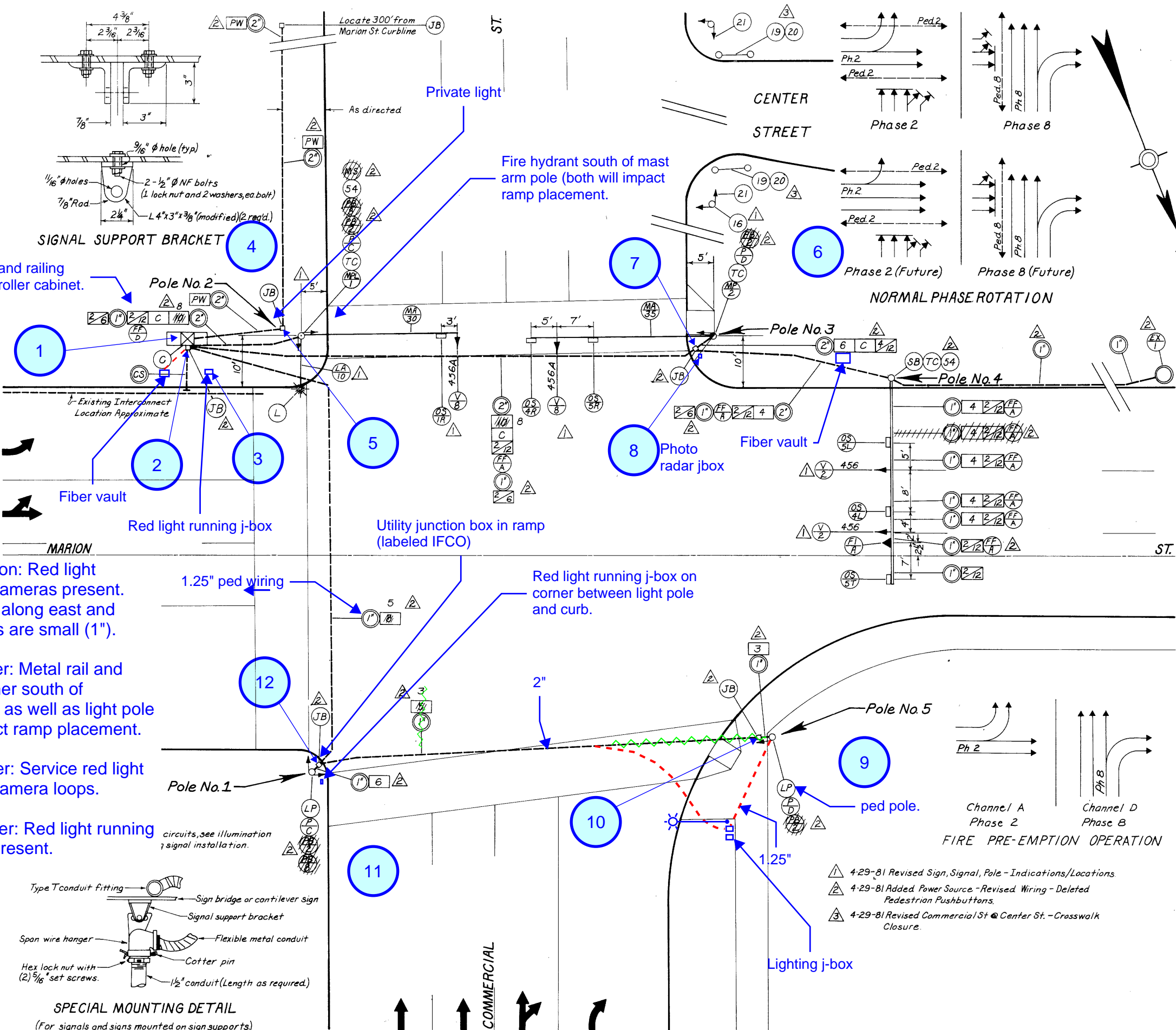


SIGNAL PLAN
MARION ST. AT COMMERCIAL ST.

SCALE 0 10 20 40 FEET

LEGEND

- △ EX Existing Salem Electric vault - power source
- C Install Model 170 Controller in Model 332 cabinet - field locate
- ⊕ MP Install Type (T) Mast Arm pole with Luminaire extension
- ⊕ MP+ Install Type (T) mast arm pole
- ⊕ MA Install (L) foot signal mast arm
- ⊕ LA Install (L) foot Luminaire arm
- ⊕ SB Install cantilever sign support - see bridge plans
- ⊕ L Luminaire unit - 40' mounting height - see illumination plans for size, wiring, etc.
- ⊕ LP Luminaire pole - see illumination plans
- ⊕ T Install Type (T) modified pedestrian signal
- ⊕ Ph Install phase (Ph) pedestrian pushbutton with instructions sign
- ⊕ V Ph Install phase (Ph) vehicle signal
- ⊕ TC Install terminal cabinet
- ⊕ S Install (S) inch electrical conduit
- ⊕ N Install (N) Number 14 type THWN wires
- ⊕ C Install one No. 6 type THWN wire - signal system common
- ⊕ NG Install (N) No. (G) Type TW wires
- ⊕ JB Install 6" x 6" x 1/2" galvanized pull box with 1/2" x 1/2" reinforced concrete pull box with sidewalk gasketed, galvanized cast iron cover inscribed "Traffic Signals." Ground cover and conduit. Install channel (Ch), (X) way fire pre-emption detector unit
- ⊕ EX Ch Install interior-illuminated through arrow "ONLY" sign
- ⊕ OS ST Install interior-illuminated through and right-turn arrow sign
- ⊕ OS ST Install interior-illuminated through and left-turn arrow sign
- ⊕ OS ST Install interior-illuminated right arrow "ONLY" sign
- ⊕ OS ST Install interior-illuminated left arrow "ONLY" sign
- ⊕ MS Install 1/2" x 1/2" x 1/2" galvanized pull box with 1/2" x 1/2" reinforced concrete pull box with sidewalk gasketed, galvanized cast iron cover inscribed "Traffic Signals." Ground cover and conduit. Install channel (Ch), (X) way fire pre-emption detector unit
- ⊕ 54 Install service cabinet with one 30-amp SPST breaker
- ⊕ CS Install 2" conduit stub - cap both ends
- ⊕ FF Ch Install channel (Ch) fire pre-emption detector feeder cable
- ⊕ PW Install one No. 6 bare copper pull wire
- ⊕ OS ST Install interior-illuminated "ONE WAY" arrow right
- ⊕ 16 Relocate existing signal pole with controller. Extend existing signal, power, and advance warning circuits as required (field locate)
- ⊕ 19 Install crosswalk closure barricade - by others
- ⊕ 20 Install 18" x 24" "CROSSWALK CLOSED" sign - by others
- ⊕ 21 Remove/disable existing pedestrian signals - by others
- Ph = Phase shown S = Size shown
- N = Number shown G = AWG wire size
- L = Length shown Ch = Channel shown
- T = Type shown 456 = 12" R, 12" Y, 12" G
- A = Standard Plumbizer



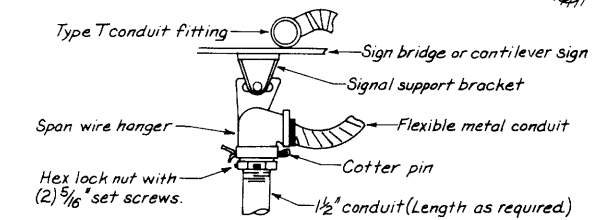
Transformer and railing south of controller cabinet.

Intersection: Red light running cameras present. Conduits along east and north legs are small (1").

SE Corner: Metal rail and transformer south of controller as well as light pole will impact ramp placement.

NE Corner: Service red light running camera loops.

SW Corner: Red light running camera present.



SPECIAL MOUNTING DETAIL
(For signals and signs mounted on sign supports)

- △ 4-29-81 Revised Sign, Signal, Pole - Indications/Locations
- △ 4-29-81 Added Power Source - Revised Wiring - Deleted Pedestrian Pushbuttons.
- △ 4-29-81 Revised Commercial St @ Center St. - Crosswalk Closure.

APPROVED: [Signature]
TRAFFIC ENGINEER
DATE: 3/24/81

OREGON STATE DIVISION
TRAFFIC SIGNAL INSTALLATION
WILLAMETTE RIVER (MARION ST.) BRIDGE SEC.
WILLAMINA-SALEM HIGHWAY
POLK-MARION COUNTY

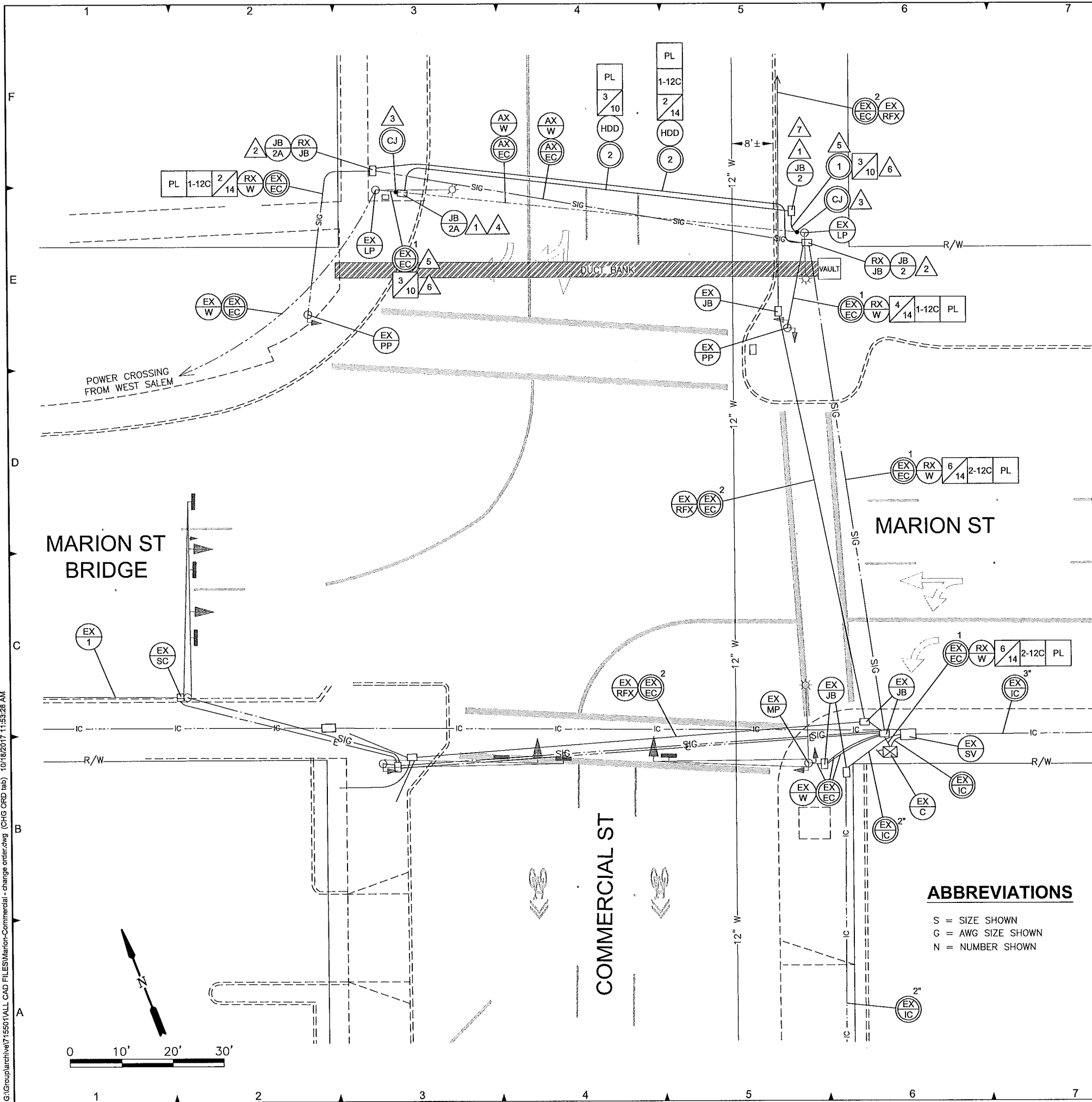
DESIGNED BY: [Signature]
CHECKED BY: [Signature]

DATE: March, 1981
ACCOMPANIED BY DWGS. 1472, 1473, 1488, 2940, 2941, 35009, 35010
































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LEGEND

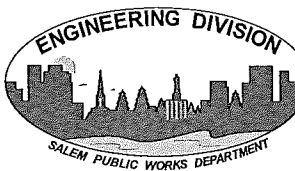
- | | |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | MAINTAIN AND PROTECT EXISTING POWER SOURCE. |
|  | MAINTAIN AND PROTECT EXISTING CONTROLLER CABINET. |
|  | MAINTAIN AND PROTECT EXISTING SERVICE CABINET. |
|  | MAINTAIN AND PROTECT EXISTING MAST POLE. |
|  | MAINTAIN AND PROTECT EXISTING PEDESTRIAN PEDESTAL. |
|  | MAINTAIN AND PROTECT EXISTING LUMINAIRE POLE. |
|  | MAINTAIN AND PROTECT EXISTING JUNCTION BOX. |
|  | MAINTAIN AND PROTECT EXISTING SPLICE VAULT. |
|  | MAINTAIN AND PROTECT EXISTING (S) INCH ELECTRICAL CONDUIT. |
|  | MAINTAIN AND PROTECT EXISTING (S) INCH INTERCONNECT CONDUIT. |
|  | MAINTAIN AND PROTECT EXISTING WIRING. |
|  | MAINTAIN AND PROTECT EXISTING REDFLEX WIRING. |
|  | ABANDON EXISTING ELECTRICAL CONDUIT. |
|  | ABANDON EXISTING WIRING. |
|  | REMOVE EXISTING WIRING. |
|  | REMOVE JUNCTION BOX. |
|  | INSTALL 13" x 24" x 18" HD POLYMER CONCRETE JUNCTION BOX WITH HD COVER PER STANDARD PLAN 705. LABEL COVER "TRAFFIC SIGNAL" OR "STREET LIGHTS" AS APPLICABLE. |
|  | INSTALL 13" x 24" x 18" HD POLYMER CONCRETE JUNCTION BOX WITH HD COVER AND CONCRETE APRON PER STANDARD PLAN 705. LABEL COVER "TRAFFIC SIGNAL" OR "STREET LIGHTS" AS APPLICABLE. |
|  | INSTALL (S) INCH ELECTRICAL CONDUIT. |
|  | SPLICE NEW ELECTRICAL CONDUIT TO EXISTING ELECTRICAL CONDUIT. |
|  | INSTALL CONDUIT BY HORIZONTAL DIRECTIONAL DRILLING, OPEN TRENCH NOT ALLOWED |
|  | INSTALL (N) NO. (G) TYPE THWN WIRES. |
|  | INSTALL (N) NO. 12 TYPE THWN WIRE (PEDESTRIAN SIGNAL SYSTEM COMMON). |
|  | INSTALL POLY PULL LINE (500 LB. MIN. TENSILE STRENGTH). |
|  | LABEL COVER "STREET LIGHTING". |
|  | LABEL COVER "TRAFFIC SIGNAL". |
|  | CUT EXISTING CONDUIT AND INSTALL SWEEP(S) INTO NEW JUNCTION BOX. |
|  | INTERRUPT EXISTING ELECTRICAL CONDUIT WITH NEW JUNCTION BOX. |
|  | CONTRACTOR TO VERIFY EXISTING CONDUIT SIZE PRIOR TO CONSTRUCTION. |
|  | SPLICE NEW POWER WIRING INTO EXISTING POWER WIRING IN LUMINAIRE POLE. |
|  | REPLACE SIDEWALK PANELS AS NEEDED. |

ABBREVIATIONS

S = SIZE SHOWN
G = AWG SIZE SHOWN
N = NUMBER SHOWN



SHEET PREPARED BY:



AS-BUILT

"THIS AS-CONSTRUCTED DRAWING WAS PREPARED UNDER MY SUPERVISION FROM DATA COLLECTED UNDER MY SUPERVISION AND REPRESENTS, TO MY KNOWLEDGE, THE BEST INFORMATION REGARDING MATERIALS AND DIMENSIONS INCLUDED IN THE AS-CONSTRUCTED PROJECT. THE CITY OF SALEM DOES NOT GUARANTEE THE ACCURACY OF THIS AS-CONSTRUCTED DRAWING."

Julie Titchborne
Julie Titchborne, P.E.

Date:

UNION ST NE
AT
COMMERCIAL ST NE

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			

PN: 715501

DATUM:	SPCS / NGVD 29(47)
SURVEY:	COS
HORIZ SCALE:	AS SHOWN
VERT SCALE:	AS SHOWN
DESIGN:	JT
DRAWN:	DTN
CHECKED:	

APPROVED

SHEET TITLE

CHANGE ORDER WORK

COMMERCIAL ST/MARION ST

SHEET 1 OF 1

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INTERCONNECT BUBBLE LEGEND

CONTROLLERS

F  MAINTAIN AND PROTECT EXISTING CONTROLLER.

POLES

 MAINTAIN AND PROTECT EXISTING POWER SOURCE.

 MAINTAIN AND PROTECT EXISTING WOOD POLE.

 MAINTAIN AND PROTECT EXISTING VEHICLE SIGNAL PEDESTAL.

 MAINTAIN AND PROTECT EXISTING PEDESTRIAN SIGNAL PEDESTAL.

E  MAINTAIN AND PROTECT EXISTING LUMINAIRE POLE.

 MAINTAIN AND PROTECT EXISTING STRAIN POLE.


 MAINTAIN AND PROTECT EXISTING METAL POWER POLE.


 MAINTAIN AND PROTECT EXISTING TRAFFIC SIGNAL MAST ARM POLE .


 MAINTAIN AND PROTECT EXISTING TRAFFIC SIGNAL MAST ARM POLE .


 INSTALL BACK GUY AND ANCHOR(S).


CABINETS


 MAINTAIN AND PROTECT EXISTING SERVICE CABINET.

 MAINTAIN AND PROTECT EXISTING COMMUNICATIONS CABINET.


 MAINTAIN AND PROTECT EXISTING METER BASE.


 MAINTAIN AND PROTECT EXISTING BATTERY BACKUP CABINET..


 INSTALL CITY SUPPLIED COMMUNICATIONS CABINET.


C  INSTALL 24" H X 20" W X 8" D AUXILIARY COMMUNICATIONS CABINET.


JUNCTION BOXES


 MAINTAIN AND PROTECT EXISTING JUNCTION BOX.


 MAINTAIN AND PROTECT EXISTING GROUND ROD BOX.

 REMOVE EXISTING JUNCTION BOX.


B  INSTALL 25"x15-1/2"x12" HD POLYMER CONCRETE JUNCTION BOX WITH HD COVER. LABEL COVER "TRAFFIC SIGNAL"


 INSTALL 25"x15-1/2"x12" HD POLYMER CONCRETE JUNCTION BOX WITH HD COVER AND CONCRETE APRON. LABEL COVER "TRAFFIC SIGNAL"


 INSTALL 32-1/4"x19-1/4"x12" HD POLYMER CONCRETE JUNCTION BOX WITH HD COVER. LABEL COVER "TRAFFIC SIGNAL".


 ABANDON EXISTING JUNCTION BOX.


MISCELLANEOUS

A  MAINTAIN AND PROTECT EXISTING VIDEO VEHICLE DETECTOR CAMERA.


 REMOVE EXISTING WEATHER HEAD. INSTALL WEATHER TIGHT CAP.


 REMOVE EXISTING INNERDUCT.


 INSTALL CITY SUPPLIED PAN-TILT ZOOM SURVEILLANCE CAMERA.


 INSTALL POWER OVER ETHERNET HIGH POWER INJECTOR AND LIGHTNING SURGE PROTECTOR.


CONDUITS


 MAINTAIN AND PROTECT EXISTING (S) INCH ELECTRICAL CONDUIT.


 MAINTAIN AND PROTECT EXISTING ELECTRICAL CONDUIT.


 MAINTAIN AND PROTECT EXISTING DETECTOR CONDUIT.


 MAINTAIN AND PROTECT EXISTING (S) INCH DETECTOR CONDUIT.


 MAINTAIN AND PROTECT EXISTING INTERCONNECT CONDUIT.


 MAINTAIN AND PROTECT EXISTING (S) INCH INTERCONNECT CONDUIT.


 MAINTAIN AND PROTECT EXISTING (S) INCH CONDUIT STUB.


 REMOVE EXISTING INTERCONNECT CONDUIT.


 ABANDON EXISTING ELECTRICAL CONDUIT.


 INTERCONNECT CONDUIT (SEE INTERCONNECT PLAN)


 ABANDON EXISTING INTERCONNECT CONDUIT.


 ABANDON EXISTING DETECTOR CONDUIT.


 INSTALL (S) INCH ELECTRICAL CONDUIT.

 INSTALL 2" CONDUIT STUB (FOR FUTURE USE, CAP ENDS)


 SPLICE NEW ELECTRICAL CONDUIT TO EXISTING ELECTRICAL CONDUIT


 INSTALL 2" EXPANSION FITTING.


 INSTALL 2-1/2" X 36" GALVANIZED PULL BOX WITH 2-1/2" X 2" BUSHINGS AT EACH END.


 INSTALL 2" GALVANIZED DEFLECTION FITTING.


WIRES


 MAINTAIN AND PROTECT EXISTING WIRING.


 MAINTAIN AND PROTECT EXISTING VIDEO FEEDER CABLE AND POWER CABLE.


 MAINTAIN AND PROTECT EXISTING VIDEO DETECTION COAXIAL FEEDER CABLE .


 MAINTAIN AND PROTECT EXISTING FIRE PREEMPTION FEEDER CABLE.


 MAINTAIN AND PROTECT EXISTING TRACER WIRE.


 MAINTAIN AND PROTECT EXISTING DETECTABLE PULL TAPE.


 MAINTAIN AND PROTECT EXISTING PULL LINE.


 MAINTAIN AND PROTECT EXISTING MESSENGER CABLE.


 REMOVE EXISTING WIRING.


 REMOVE EXISTING LOOP FEEDER CABLES.


 REMOVE AND RELOCATE EXISTING VIDEO FEEDER CABLE AND POWER CABLE.


 REMOVE AND RELOCATE EXISTING FIRE PREEMPTION FEEDER CABLE.


 REMOVE AND RELOCATE EXISTING DETECTABLE PULL TAPE.


 REINSTALL EXISTING VIDEO FEEDER CABLE AND POWER CABLE.


 REINSTALL EXISTING WIRING.


 REINSTALL EXISTING FIRE PREEMPTION FEEDER CABLE.

 ABANDON EXISTING WIRING.


 INSTALL (N) NO. (G) TYPE THWN WIRES.


 INSTALL 5/16" GALVANIZED STEEL MESSENGER CABLE.


 INSTALL CATEGORY 5 OUTDOOR RATED CABLE FOR PAN-TILT ZOOM SURVEILLANCE CAMERA.


 INSTALL CHANNEL (Ch) FIRE PREEMPTION FEEDER CABLE.


INTERCONNECT AND FIBER OPTICS


 MAINTAIN AND PROTECT (N) EXISTING GATOR PATCH PANEL(S).


 MAINTAIN AND PROTECT EXISTING GATOR PATCH FIBER OPTIC CABLE.


 MAINTAIN AND PROTECT EXISTING (N) STRAND FIBER OPTIC CABLE.


 MAINTAIN AND PROTECT EXISTING FIBER OPTIC SPLICE VAULT.


 MAINTAIN AND PROTECT EXISTING FIBER OPTIC HAND HOLE BOX.


 MAINTAIN AND PROTECT EXISTING (N) TWISTED PAIR INTERCONNECT CABLE(S).


 MAINTAIN AND PROTECT EXISTING DISTRIBUTION MODULE WITH 12 LC CONNECTORS.


 MAINTAIN AND PROTECT EXISTING DISTRIBUTION MODULE WITH 24 LC CONNECTORS.


 REMOVE EXISTING INTERCONNECT CABLE(S).


 REMOVE EXISTING (N) TWISTED PAIR INTERCONNECT CABLE.


 REMOVE EXISTING GATOR PATCH PANEL.


 REMOVE EXISTING GATOR PATCH FIBER OPTIC CABLE.


 REMOVE EXISTING (N) STRAND FIBER OPTIC CABLE(S).


 REMOVE AND RELOCATE EXISTING INTERCONNECT CABLE(S).


 REMOVE AND RELOCATE EXISTING (N) STRAND FIBER OPTIC CABLE(S).


 REINSTALL EXISTING OVERHEAD INTERCONNECT CABLE IN NEW UNDERGROUND ELECTRICAL CONDUIT TERMINATING IN SPLICE VAULT.


 REINSTALL EXISTING (N) STRAND FIBER OPTIC CABLE.

 REINSTALL EXISTING INTERCONNECT CABLE(S).


 REMOVE EXISTING (S) INCH INTERCONNECT CONDUIT.


 INSTALL (N) GATOR PATCH PANEL(S). (SEE SPECIAL PROVISIONS) NEW POWER SOURCE. COORDINATE WORK WITH MARK YOUNG WITH PGE AT (503) 463-4365.


 INSTALL (N) GATOR PATCH 12 FIBER CABLE(S).


 INSTALL (N) FIBER DISTRIBUTION MODULE(S) WITH 12 LC CONNECTORS EACH. (SEE SPECIAL PROVISIONS)


INTERCONNECT AND FIBER OPTICS


 INSTALL (N) FIBER DISTRIBUTION MODULE(S) WITH 24 LC CONNECTORS EACH. (SEE SPECIAL PROVISIONS)


 INSTALL FIBER DISTRIBUTION MODULE MTP 12 STRAND CABLE.


 INSTALL FIBER DISTRIBUTION MODULE MTP 24 STRAND CABLE.


 INSTALL FIBER OPTIC CABLE WITH (N) STRANDS SINGLE MODE.


 INSTALL POLY PULL LINE (500 LB TENSILE STRENGTH).


 INSTALL FIBER OPTIC SPLICE CLOSURE. COIL A MINIMUM OF 50' OF EACH FIBER OPTIC TRUNK LINE AND 40' OF EACH 12 OR 24 FIBER MTP SPUR LINE IN SPLICE VAULT. (SEE LOGICAL DIAGRAM FOR SPLICES)


 INSTALL FIBER OPTIC SPLICE CLOSURE IN SPLICE VAULT. COIL A MINIMUM OF 50' OF EACH FIBER OPTIC CABLE IN SPLICE VAULT UNLESS OTHERWISE SPECIFIED. (SEE LOGICAL DIAGRAM FOR SPLICES)


 INSTALL OVERHEAD FIBER OPTIC SPLICE CLOSURE. (SEE LOGICAL DIAGRAM FOR SPLICES)


 INSTALL INTERCONNECT CABLE ON EXISTING POWER POLES USING 1/4" HIGH STRENGTH GALVANIZED STEEL MESSENGER CABLE. SEE CONSTRUCTION NOTE (19.5' MOUNTING HEIGHT UNLESS OTHERWISE NOTED)


 INSTALL OVERHEAD FIBER OPTIC SPLICE CLOSURE. STORE A MINIMUM OF 200' OF 96 STRAND FIBER OPTIC CABLE. (SEE DETAIL SHEET FOR SPLICES). USE SNOWSHOES TO STORE CABLE (100' FROM EACH DIRECTION). STORE 100' OF EACH 12 STRAND GATOR PATCH FIBER OPTIC CABLE.


 INSTALL OVERHEAD CABLE STORAGE BRACKETS (SNOWSHOES). STORE 200' (100' FROM EACH DIRECTION) OF 96 STRAND FIBER OPTIC CABLE. (SEE SPECIAL PROVISIONS)


 INSTALL OVERHEAD CABLE STORAGE BRACKETS (SNOWSHOES). STORE (L) OF 96 STRAND FIBER OPTIC CABLE. (SEE SPECIAL PROVISIONS)

 ATTACH INTERCONNECT CABLE TO WOOD POLE (ID), OWNED BY (OWN) AS SHOWN. (19.5' MOUNTING HEIGHT UNLESS OTHERWISE NOTED)

 INSTALL 37 5/8" x 26" x 24" HD POLYMER CONCRETE FIBER OPTIC SPLICE VAULT WITH HD COVER. SEE DETAIL SHEET AND SPECIAL PROVISIONS.

 INSTALL 37 5/8" x 26" x 24" HD POLYMER CONCRETE FIBER OPTIC SPLICE VAULT WITH HD COVER AND CONCRETE APRON. SEE DETAIL SHEET AND SPECIAL PROVISIONS.


 INSTALL 32 1/4" x 19 1/4" x 24" HD POLYMER CONCRETE FIBER OPTIC HAND HOLE BOX WITH HD COVER. SEE DETAIL SHEET AND SPECIAL PROVISIONS.


 INSTALL 32 1/4" x 19 1/4" x 24" HD POLYMER CONCRETE FIBER OPTIC HAND HOLE BOX WITH HD COVER AND CONCRETE APRON. SEE DETAIL SHEET AND SPECIAL PROVISIONS.


ABBREVIATIONS

S = SIZE SHOWN
G = AWG SIZE SHOWN
T = TYPE SHOWN
CH = CHANNEL SHOWN
N = NUMBER SHOWN
Ph = PHASE SHOWN
L = LENGTH SHOWN
E = ELEVATOR PLUMBIZER
MP = INSTALL ON MAST ARM POLE
MA = INSTALL ON MAST ARM
LA = INSTALL ON LUMINAIRE ARM
SP = INSTALL ON STRAIN POLE

* = INSTALL NO. 16 TYPE THWN TRACER WIRE PER ODOT SPECIFICATIONS. INSTALL EACH LOCATE WIRE CONTINUOUS FROM CONTROLLER CABINET TO CONTROLLER CABINET.

 MAINTAIN AND PROTECT EXISTING (N) STRAND MULTI MODE FIBER OPTIC CABLE.

 REMOVE AND RELOCATE EXISTING WIRING.

 NEW 120/240 VOLT POWER SOURCE. COORDINATE WITH SALEM ELECTRIC.

SHEET PREPARED BY:



AS-BUILT

"THIS AS-CONSTRUCTED DRAWING WAS PREPARED UNDER MY SUPERVISION FROM DATA COLLECTED UNDER MY SUPERVISION AND REPRESENTS, TO MY KNOWLEDGE, THE BEST INFORMATION REGARDING MATERIALS AND DIMENSIONS INCLUDED IN THE AS-CONSTRUCTED PROJECT. THE CITY OF SALEM DOES NOT GUARANTEE THE ACCURACY OF THIS AS-CONSTRUCTED DRAWING."

Richard L. Barnes PE
Date:

SEALED

ORIGINALS SEALED BY:
HOWARD D. RONEY
REG#: 10714
DATE SIGNED: 05/18/2011
CERTIFICATE EXPIRED: 12/31/2012

TRAFFIC SIGNAL COMMUNICATIONS

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADDED CALLOUTS	12/27/11	DTN
2	AS-BUILT	8/6/12	DTN

PN: 709524

HORIZ DATUM: NAD 83-SPCS
VERT DATUM: NGVD 1929(47)
HORIZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN
DESIGN: HDR
DRAWN: JAK
CHECKED:

APPROVED:

SHEET TITLE

INTERCONNECT BUBBLE LEGEND SHEET

SG-100

SHEET 11 OF 108

8/23/2012 1:38:38 PM
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INTERCONNECT TRIANGLE CONSTRUCTION NOTES

- F

1

INSTALL IN SIDEWALK. REPLACE SW PANEL(S) AS NEEDED.
- 2

~~CONTRACTOR TO INSTALL CONDUIT USING BORE AND JACK METHOD.~~
- 3

INSTALL CONDUIT BY HORIZONTAL DIRECTIONAL DRILLING, OPEN TRENCH NOT ALLOWED.
- 4

INSTALL 18" STANDOFF BRACKET.
- 5

PRIOR TO INSTALLATION, EXACT LOCATION TO BE DETERMINED IN THE FIELD BY CITY ENGINEER.
- 6

INSTALL INTERCONNECT CONDUIT TO AND UP POWER POLE ON STREET SIDE TERMINATING WITH A WEATHER TIGHT CAP. DO NOT USE WEATHERHEAD.
- 7

INSTALL CONCRETE APRON AROUND EXISTING HAND HOLE AS SHOWN IN DRAWING SD-01.
- E

8

CONTRACTOR TO RELOCATE EXISTING JUNCTION BOX IN SIDEWALK AND MODIFY/EXTEND CONDUITS AND WIRING AS NECESSARY.
- 9

STORE 200' OF INTERCONNECT CABLE BEFORE EACH CROSSING.
- 10

REMOVE SWEEPS FROM EXISTING INTERCONNECT CONDUIT. SPLICE INTERCONNECT CONDUITS TOGETHER FOR A CONTINUOUS RUN. REPLACE SIDEWALK PANELS AS NEEDED.
- 11

REMOVE EXISTING INTERCONNECT CONDUITS (AS SHOWN) FROM JUNCTION BOX. JOIN BOTH INTERCONNECT CONDUITS TOGETHER TO CREATE A CONTINUOUS RUN BYPASSING JUNCTION BOX. REPLACE SIDEWALK PANELS AS NEEDED.
- D

12

INSTALL APRON AROUND EXISTING JUNCTION BOX. ADJUST GRADE TO MATCH ADJACENT SIDEWALK.
- 13

REPLACE SW PANEL(S) AFTER REMOVAL OF JUNCTION BOX.
- 14

INTERRUPT EXISTING INTERCONNECT CONDUIT RUN WITH SPLICE VAULT/HAND HOLE. INSTALL NECESSARY SWEEPS TO CONFORM WITH STANDARDS ILLUSTRATED ON THE UNDERGROUND ENCLOSURE DETAIL SHEET. REPLACE SIDEWALK PANELS AS NEEDED.
- 15

INTERRUPT EXISTING INTERCONNECT AND DETECTOR CONDUIT RUNS WITH HAND HOLE. INSTALL NECESSARY SWEEPS TO CONFORM WITH STANDARDS ILLUSTRATED ON THE UNDERGROUND ENCLOSURE DETAIL SHEET. REPLACE SIDEWALK PANELS AS NEEDED.
- C

16

SPLICE NEW 3" CONDUIT TO EXISTING CONDUIT AND EXTEND TO SPLICE VAULT FOR FO INTERCONNECT. REPLACE SIDEWALK AS NEEDED.
- 17

INTERCEPT EXISTING 3" CONDUIT BEHIND CURB AND REROUTE INTO NEW FIBER OPTIC HAND HOLE BOX. REPLACE SIDEWALK AS NEEDED.
- 18

STORE ~~AN EXTRA~~ 100' OF 96 FIBER INTERCONNECT CABLE IN SPLICE VAULT/HAND HOLE.
- 19

LENGTHEN OR SHORTEN EXISTING CONDUITS TO ALLOW TERMINATION OF CONDUITS FROM BOTH JUNCTION BOXES IN ONE FIBER OPTIC HAND HOLE.
- B

20

REMOVE ALL EXISTING INTERCONNECT CONDUITS FROM FIELD WIRING JUNCTION BOX. LENGTHEN OR SHORTEN AS NECESSARY TO ALLOW TERMINATION OF ALL INTERCONNECT CONDUITS IN NEW SPLICE VAULT/HAND HOLE.
- 21

REMOVE SWEEPS FROM EXISTING INTERCONNECT AND DETECTOR CONDUITS. SPLICE INTERCONNECT CONDUITS TOGETHER FOR A CONTINUOUS RUN. SPLICE DETECTOR CONDUITS TOGETHER FOR A CONTINUOUS RUN. ABANDON SAND POCKET CONDUIT AND LOOP WIRING. BACKFILL WITH DIRT AND RESTORE EXCAVATION SITE WITH TURF TO MATCH SURROUNDING CONDITIONS.
- 22

EXISTING 12PR COPPER INTERCONNECT CABLE TO BE REMOVED FROM THIS POLE. NEW FO INTERCONNECT CABLE SHALL NOT BE ATTACHED TO THIS POLE.
- A

23

DO NOT REMOVE OR DAMAGE THIS JUNCTION BOX.
- 24

PULL BACK EXISTING INTERCONNECT AND FIRE PREEMPTION FEEDER CABLE TO INSTALL NEW CONDUIT. REINSTALL IN NEW CONDUIT RUN THROUGH SPLICE VAULT.

- 24

CONTRACTOR TO CUT FOUNDATION OF EXISTING CONTROLLER CABINET ALLOWING NEW 3" IC CONDUIT TO BE INSTALLED WITH NO EXPOSURE ABOVE FINISH GRADE OF NEW CONCRETE SLAB SURROUNDING NEW SPLICE VAULT, EXISTING JB AND SERVICE CABINET. GROUT AROUND CONDUIT TO SEAL AND PROTECT FROM OUTSIDE ELEMENTS. DO NOT USE "LB" STYLE CONDUIT FITTING.
- 25

INSTALL OVERHEAD SPLICE CLOSURE ON THE NORTH SIDE AND WITHIN 10' OF PGE POLE #814.
96 STRAND OVERHEAD FIBER OPTIC CABLE STORAGE FOR MARKET ST/LANCASTER DR TRAFFIC SIGNAL TO BE LOCATED AT TWO LOCATIONS AS SHOWN ON PLANS.
1. ~~100'~~ 200' OF 96 FIBER CABLE TO BE STORED APPROXIMATELY ~~265'~~ 190' NORTH OF EXISTING CONTROLLER CABINET ON THE NORTH SIDE OF GUYED PGE WOODEN POLE ID ~~#812~~ #814.
2. ~~100'~~ 200' OF 96 FIBER CABLE TO BE STORED APPROXIMATELY ~~335'~~ 55' SOUTH OF EXISTING CONTROLLER CABINET ON THE SOUTH SIDE OF PGE WOODEN POLE ID ~~#821~~ #2147.
- 26

REMOVE EXISTING SPLICE VAULT. REMOVE SWEEPS FROM EXISTING INTERCONNECT CONDUIT FROM COURT ST TRAFFIC SIGNAL AND UNION ST TRAFFIC SIGNAL. SPLICE THESE INTERCONNECT CONDUITS TOGETHER FOR A CONTINUOUS RUN. CAP AND ABANDON REMAINING CONDUIT. BACKFILL RESULTING VOID WITH CLEAN SOIL AND RESTORE AREA TO MATCH ADJACENT LANDSCAPING.
- 27

PLACE WEATHERPROOF ID TAG ON OVERHEAD FIBER OPTIC CABLE CONTAINING THE LEGEND "CITY OF SALEM" STAMPED ON IT. PLACE ID TAG ON CABLE WITHIN 3 FEET OF ATTACHMENT POINT TO EACH WOOD POLE THE CABLE IS ATTACHED TO. IN ADDITION, PLACE ID TAG ON CABLE WITHIN 3 FEET OF EACH OVERHEAD FIBER OPTIC SPLICE CLOSURE.
- 28

PULL BACK EXISTING 12 PR COPPER INTERCONNECT CABLE FROM CONTROLLER AT WALLACE RD / EDGEWATER ST INTERSECTION TO SALEM ELECTRIC WOOD POLE #220183 BY RR BRIDGE PATHWAY. REMOVE MESSENGER CABLE AND REINSTALL THROUGH NEW 3" CONDUIT ALONG WITH THE 12 FIBER OPTIC MTP CABLE, TO THE CITY SUPPLIED COMMUNICATION CABINET. DO NOT DISTURB THE REMAAINING 12 PR COPPER CABLE INTERCONNECT BETWEEN POLE #220183 AND THE WALLACE RD / TAGGART DR INTERSECTION.
- 29

CAREFULLY REMOVE GATOR PATCH FIBER OPTIC CABLE FROM CONDUIT AND GATOR PATCH PANEL FROM FROM CONTROLLER CABINET. DO NOT SEPARATE FIBER OPTIC CABLE FROM PATCH PANEL. COIL FIBER OPTIC CABLE AND RETURN CABLE WITH PATCH PANEL TO CITY.
- 30

REMOVE EXISTING 24 FIBER OPTIC TRUNK LINE FROM SPLICE CLOSURE. CAREFULLY PULL BACK FROM THE CONDUIT THAT CROSSES CHERRY AVE, THE 24 FIBER CABLE INCLUDING ALL CABLE STORED IN EXISTING SPLICE VAULT AND THE DETECTABLE PULL TAPE, TO THE EXISTING HAND HOLE IN THE SW CORNER, BEING CAREFUL NOT TO KINK OR OTHERWISE DAMAGE THE FIBERS. REMOVE THE EXISTING INNERDUCT FROM THE CONDUIT. REINSTALL THE 24 FIBER TRUCK LINE AND DETECTABLE PULL TAPE ALONG WITH THE NEW 96 FIBER CABLE, TRACER WIRE AND PULL LINE COMING FROM THE TRAFFIC SIGNAL CONTROLLER CABINET AT SALEM PARKWAY AND BROADWAY STREET.
- 31

INSTALL 3" CONDUIT STUB EXTENDING TWO FEET BEYOND CONTROLLER FOUNDATION FOR FUTURE USE. CAP ENDS.
- 32

STORE AN EXTRA 50' OF 96 FIBER INTERCONNECT CABLE IN SPLICE VAULT.
- 33

WHEN MOUNTED ON SIGNAL POLE SHAFT, CAMERA MOUNT SHALL BE INSTALLED NOT GREATER THAN TWO FEET BELOW LUMINAIRE ARM ATTACHMENT POINT ON SIGNAL POLE. CAMERA MOUNT SHALL BE ORIENTED DIAGONALLY WITH INTERSECTION AND CAMERA SHALL BE ON A HORIZONTAL PLANE IN ALL DIRECTIONS. SEE DETAIL AT EACH LOCATION. PRIOR TO CAMERA INSTALLATION, CONFIRM LOCATION AND ORIENTATION WITH CITY ENGINEER.
- 34

MOUNT AT EXISTING ATTACHING HEIGHT.

- 35

PROTECT EXISTING 6 STRAND MULTI-MODE (MM) FIBER OPTIC CABLE ~~AND POWER CABLES.~~ AND RELOCATE POWER CABLES TO ADJACENT 1.25" CONDUIT CONTAINING EXISTING TRAFFIC SIGNAL FIELD WIRING
- 36

INSTALL 2" CONDUIT STUB EXTENDING ONE FOOT BEYOND BACK OF SIDEWALK FOR FUTURE CONNECTION TO FIRE STATION. CAP ENDS.
- 37

USE PREDRILLED HOLES @ 19' OR USE STRAPS ON POLE. DO NOT DRILL NEW HOLE ON POLE.
- 38

INSTALL A 24" FIBERGLASS ARM ON THE FIELD SIDE OF POLE AND ATTACH NEW FIBER CABLE.
- 39

THREE TRACER WIRES IN CONDUIT DESCRIBED AS FOLLOWS:
a. EXISTING TRACER WIRE FROM LIBERTY ST/MISSION ST TRAFFIC SIGNAL CONTROLLER CABINET, CONTINUOUS THROUGH SPLICE VAULT AND JUNCTION BOX, TERMINATING IN LIBERTY ST/CIVIC CENTER CONTROLLER CABINET SHALL REMAIN UNDISTURBED.
b. EXISTING TRACER WIRE FROM TRAFFIC CONTROL ROOM IN CITY HALL, CONTINUOUS THROUGH SPLICE VAULT AND JUNCTION BOX, TERMINATING IN LIBERTY ST/CIVIC CENTER CONTROLLER CABINET SHALL REMAIN UNDISTURBED.
c. NEW TRACER WIRE FROM LIBERTY ST/TRADE ST TRAFFIC SIGNAL CONTROLLER CABINET, TO BE CONTINUOUS THROUGH SPLICE VAULT AND JUNCTION BOX, TERMINATING IN LIBERTY ST/CIVIC CENTER CONTROLLER CABINET.
- 40

PLENUM RATED.
- 41

SPLICE VAULT TO HAVE A DEPTH OF 36" IN THESE LOCATIONS.
- 42

BORE CONDUIT UNDERNEATH RETAINING WALL.
- 43

CONTRACTOR SHALL RELOCATE THE EXISTING WEEPING REWOOD OUTSIDE PUBLIC ROW.
- 44

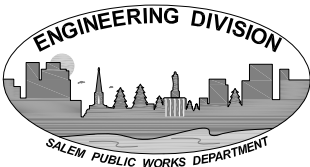
CONTRACTOR SHALL RELOCATE ALL CURRENTLY USED FIRE PREEMPTION CABLES.

INTERCONNECT NOTES:

1. ALL SPLICE VAULTS, HAND HOLES, AND JUNCTION BOXES SHALL HAVE CONCRETE APRONS OR BE PLACED IN SIDEWALK AREA AND SURROUNDED BY CONCRETE.
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND UNCOVERING, IF BURIED, EXISTING JUNCTION BOXES. ACTUAL LOCATION OF EXISTING JUNCTION BOXES MAY VARY FROM THAT SHOWN ON THESE PLANS.
3. PLACE WEATHERPROOF ID TAG ON OVERHEAD FIBER OPTIC CABLE CONTAINING THE LEGEND "CITY OF SALEM" STAMPED ON IT. PLACE ID TAG ON CABLE WITHIN 3 FEET OF ATTACHMENT POINT TO EACH WOOD POLE THE CABLE IS ATTACHED TO. IN ADDITION, PLACE ID TAG ON CABLE WITHIN 3 FEET OF EACH OVERHEAD FIBER OPTIC SPLICE CLOSURE.



SHEET PREPARED BY:



AS-BUILT
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Richard L. Barnes PE

Date:

SEALED

ORIGINALS SEALED BY:
HOWARD D. RONEY
REG#: 10714
DATE SIGNED: 05/18/2011
CERTIFICATE EXPIRED: 12/31/2012

TRAFFIC SIGNAL COMMUNICATIONS

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADD NOTES	11/01/11	DTN
2	ADD NOTES 41-44	1/12/12	DTN
3	FIBER STORAGE CHANGES	3/20/12	WAK
4	AS-BUILT	8/6/12	DTN

PN: 709524

HORIZ DATUM: NAD 83-SPCS
VERT DATUM: NGVD 1929(47)
HORIZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN
DESIGN: HDR
DRAWN: JAK
CHECKED:

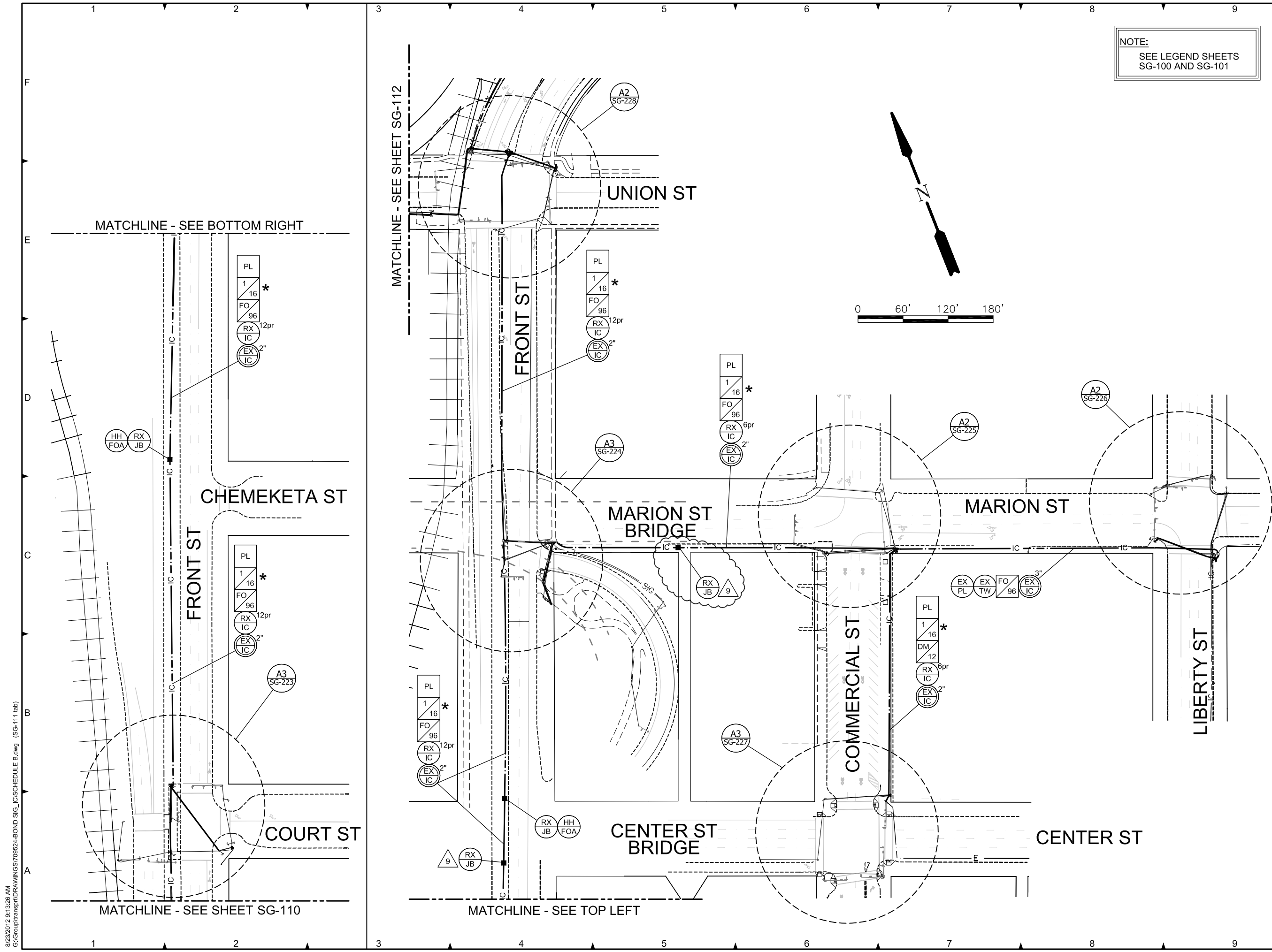
APPROVED:

SHEET TITLE

INTERCONNECT
DETAIL
CONSTRUCTION
NOTES

SG-101

SHEET 12 OF 108



NOTE:
SEE LEGEND SHEETS
SG-100 AND SG-101



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HOWARD D. RONEY
REG#: 10714
DATE SIGNED: 05/18/2011
CERTIFICATE EXPIRED: 12/31/2012

**TRAFFIC
COMMUNICATIONS
SIGNAL
INTERCONNECT**

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADD JB CALLOUT	1/5/12	DTN
2	AS-BUILT	8/7/12	DTN

PN: 709524

DATUM: SPCS / NGVD 29(47)
SURVEY: COS
HORIZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN
DESIGN: HDR
DRAWN: JAK
CHECKED:

APPROVED:

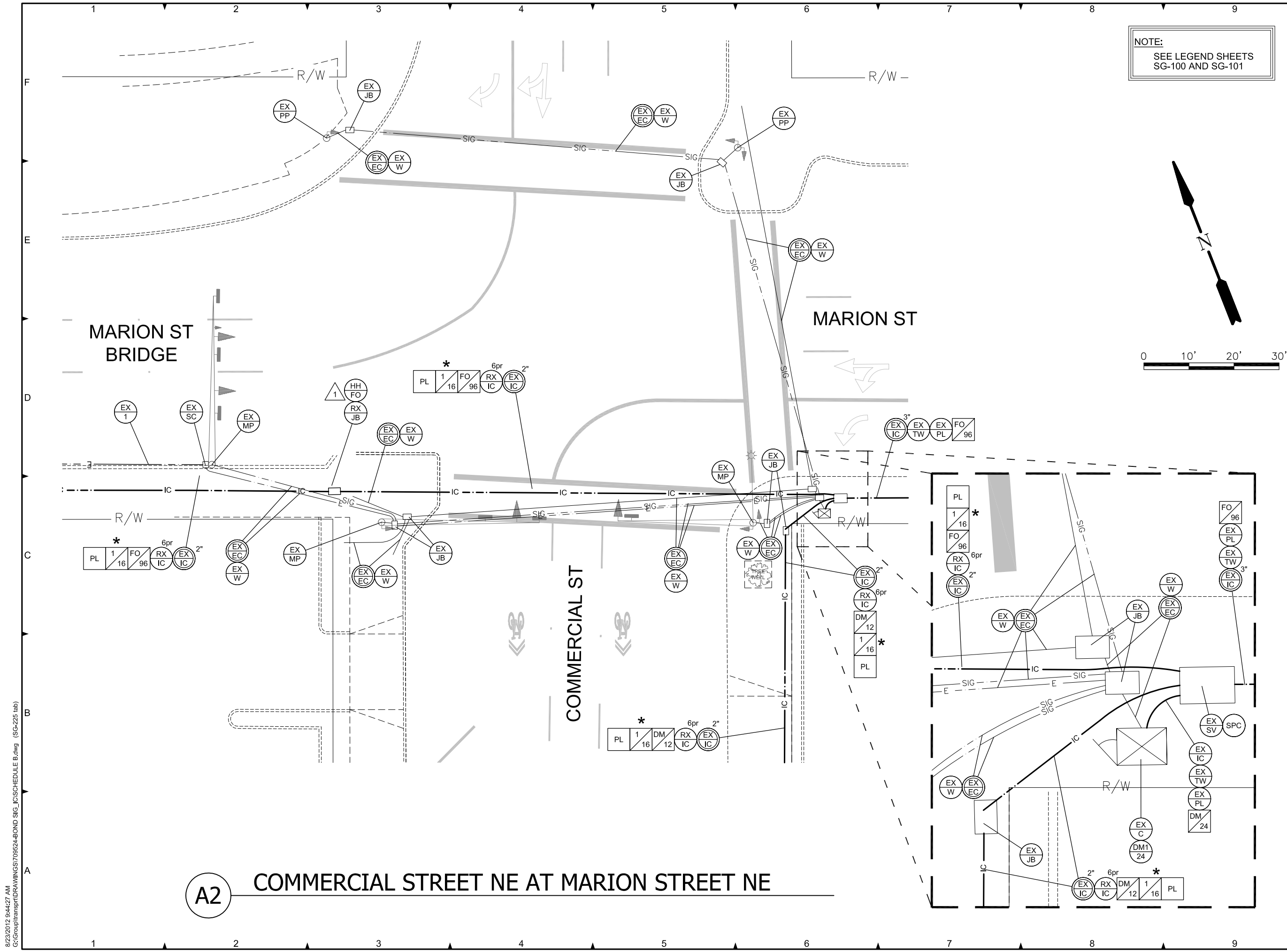
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SCHEDULE 'B'
**INTERCONNECT
PLAN**
COURT ST TO UNION ST

SG-111

SHEET 50 OF 108

8/23/2012 8:13:26 AM
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NOTE:
SEE LEGEND SHEETS
SG-100 AND SG-101



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Date:

SEALED

ORIGINALS SEALED BY:
HOWARD D. RONEY
REG#: 10714
DATE SIGNED: 05/18/2011
CERTIFICATE EXPIRED: 12/31/2012

TRAFFIC COMMUNICATIONS SIGNAL INTERCONNECT

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	AS-BUILT	8/7/12	DTN

PN: 709524

DATUM: SPCS / NGVD 29(47)
SURVEY: COS
HORIZ SCALE: AS SHOWN
VERT SCALE: AS SHOWN
DESIGN: HDR
DRAWN: JAK
CHECKED:

APPROVED:

SHEET TITLE

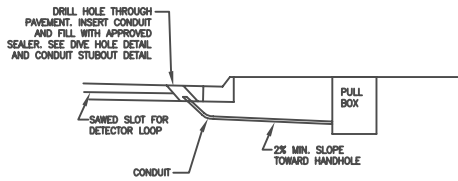
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INTERSECTION ENLARGEMENT

COMMERCIAL ST/MARION ST

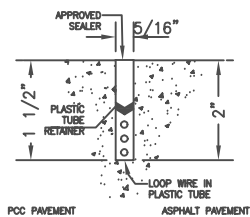
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SHEET 58 OF 108

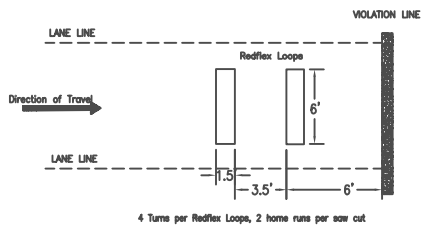
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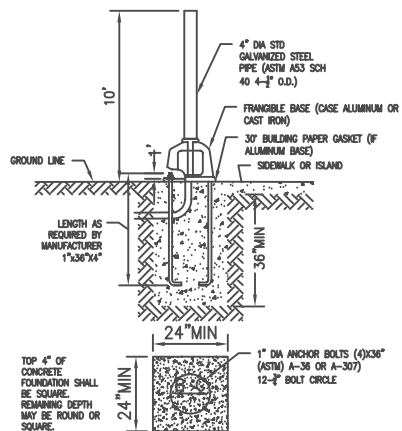
DETECTOR LOOP PLAN



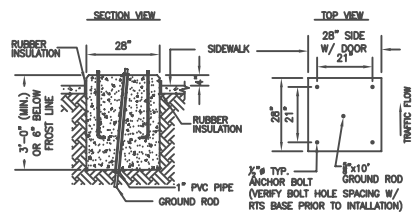
DETECTOR LOOP INSTALLATION



LOOP PLACEMENT PLAN

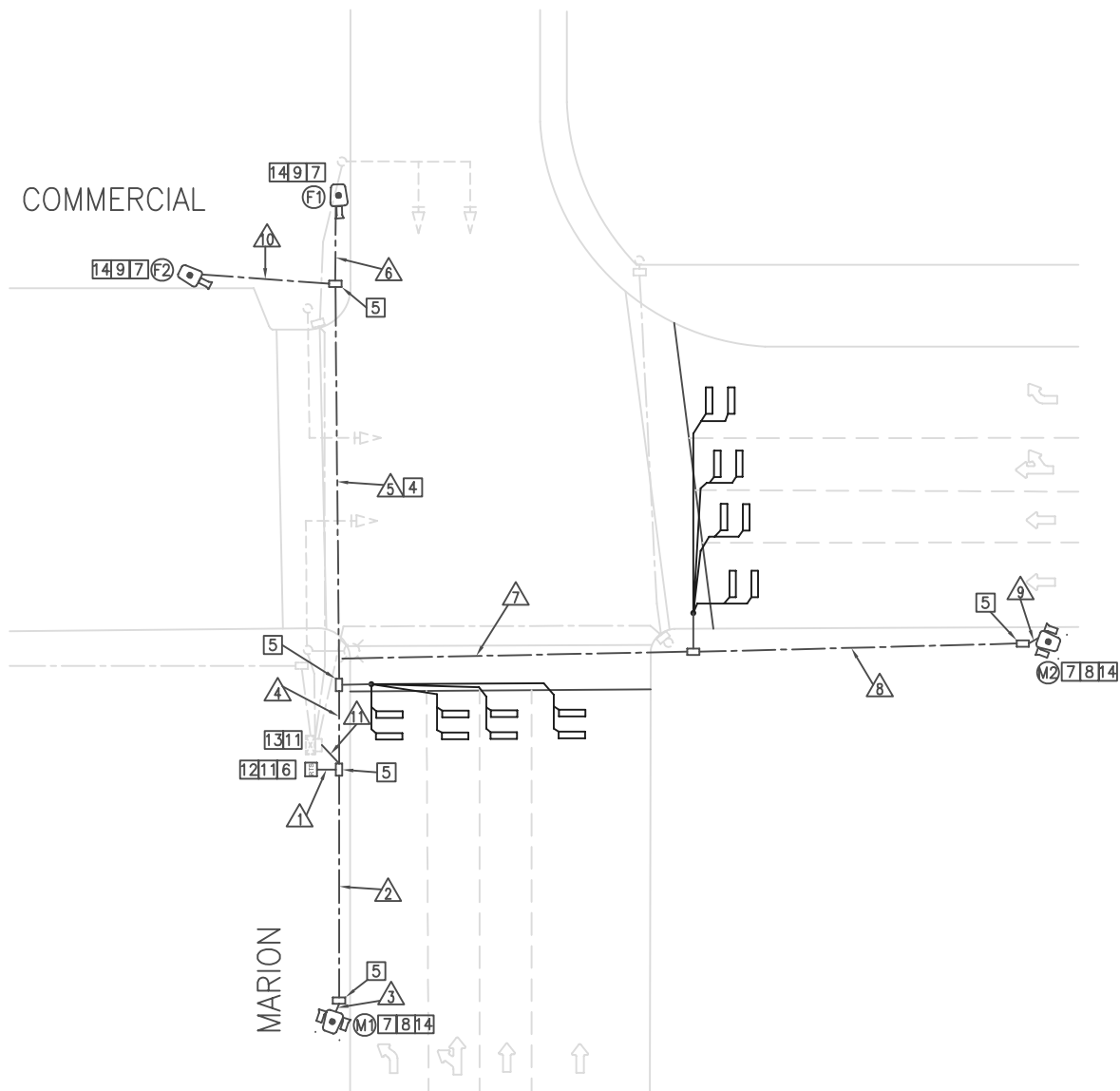


POLE DETAIL I

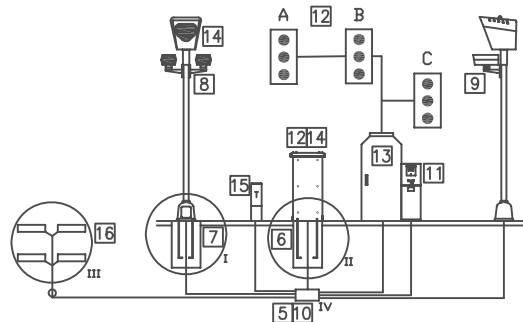
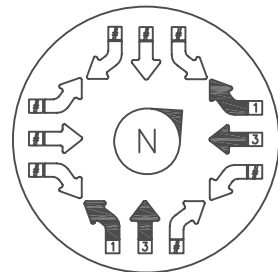


CABINET FOUNDATION DETAIL II

COMMERCIAL



MARION



CONSTRUCTION NOTES

- 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.
- REFLEX WILL MEET WITH THE CONTRACTOR, CITY OFFICIALS, AND POLICE TO MARK THE EXACT LOCATION OF THE POLES AND CABINET PRIOR TO CONSTRUCTION.
- TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIME. TEMPORARY SHUTDOWNS OR DISRUPTION MUST BE COORDINATED WITH THE CITY.
- 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.
- INSTALL JB-1(12" x 17" x 12") CONCRETE JUNCTION BOX PER ODOT STANDARDS.
- 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.
- INSTALL FOUNDATION AND POLE FOR REDFLEX EQUIPMENT. CONNECT POLE TO SOLID STRANDED BOND GROUND. SEE DRAWING FOR LOCATION. SEE POLE DETAIL.
- INSTALL CAMERA AND (2) 250 WATT FLASH ENCLOSURES ON REDFLEX POLE, AIM AT MONITORED APPROACH.
- INSTALL CAMERA AND 500 WATT FLASH ENCLOSURE ON REDFLEX POLE, AIM AT VIOLATION LINE.
- 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".
- CONTRACTOR SHALL TERMINATE ALL POWER CIRCUITS INTO REDFLEX CABINET. INSTALL 40 AMP BREAKER INTO EXISTING CITY METER PEDESTAL FOR 120V SUPPLY TO RTS CABINET.
- INSTALL INLINE FUSE HOLDER ON RED PHASE CONDUCTOR WITH 5 AMP FUSE INSIDE REDFLEX CABINET, TO PROTECT CITY TRAFFIC CABINET.
- 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.)
- TERMINATE POLE TO REDFLEX CABINET POWER CIRCUIT (HOT & NEUTRAL). CONNECT TO SOLID STRANDED BOND GROUND.
- INSTALL DSL DROP INTO RTS CABINET.
- 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 (M2)	CAT5	SHIELD 4 PAIR	3			3			3	3	3									
		#10	BLACK WHITE	2			2			2	2	2									
	POLE (F2)	CAT5	SHIELD 4 PAIR	1			1	1					1								
		#10	BLACK WHITE	2			2	2					2								
REFLEX	LOOP LEAD-IN	DLC	GROUND	16			16			8											
	COMMUNICATION	PHONE WIRE	SHIELD 2 PAIR																		
	STRANDED BOND	#8	GREEN	1	1	1	1	1	1	1	1	1	1								
CITY	TRAFFIC RED PHASE	#14	RED ORANGE WHITE	5										5							
	POWER PEDESTAL (120V)	#8	BLACK WHITE	2										2							
TOTAL	TOTAL NEW CONDUCTORS			30	6	6	28	7	4	14	6	6	4	7							
	CONDUIT SIZE (INCHES)			2(2)	2	2	2(2)	2	2	2	2	2	2	2							
	NEW/EXISTING CONDUIT			N	N	N	N	N	N	N	N	N	N	N							
AS BUILT	CONDUIT LENGTH FT.																				
	CONDUIT DEPTH IN.																				

LEGEND

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

CITY OF SALEM, OR PUBLIC WORKS DEPARTMENT

PROJECT TITLE:

RED LIGHT PHOTO ENFORCEMENT
ON MARION & COMMERCIAL

PROJECT CODE
XXXX-MACO-A

PLAN SCALE:
1" = 20'

SIGNATURE

DESIGNED BY: JOHN BABEK

DRAWN BY: CARLOS TLILAYATZI

CHECKED BY:

SUBMITTED BY:

APPROVED BY:

CITY ENGINEER

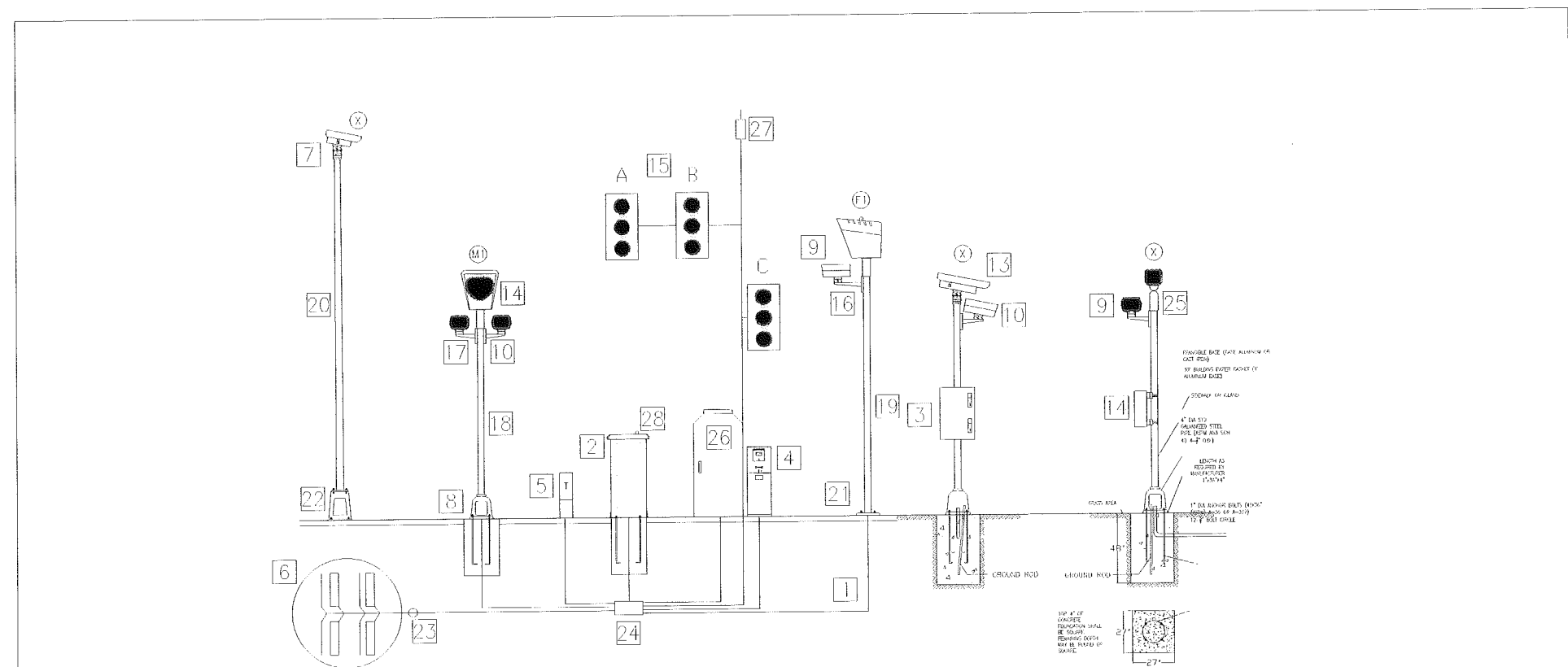
REVISIONS

DESCRIPTION

PLAN NO.

SHEET NO.
1 OF 1

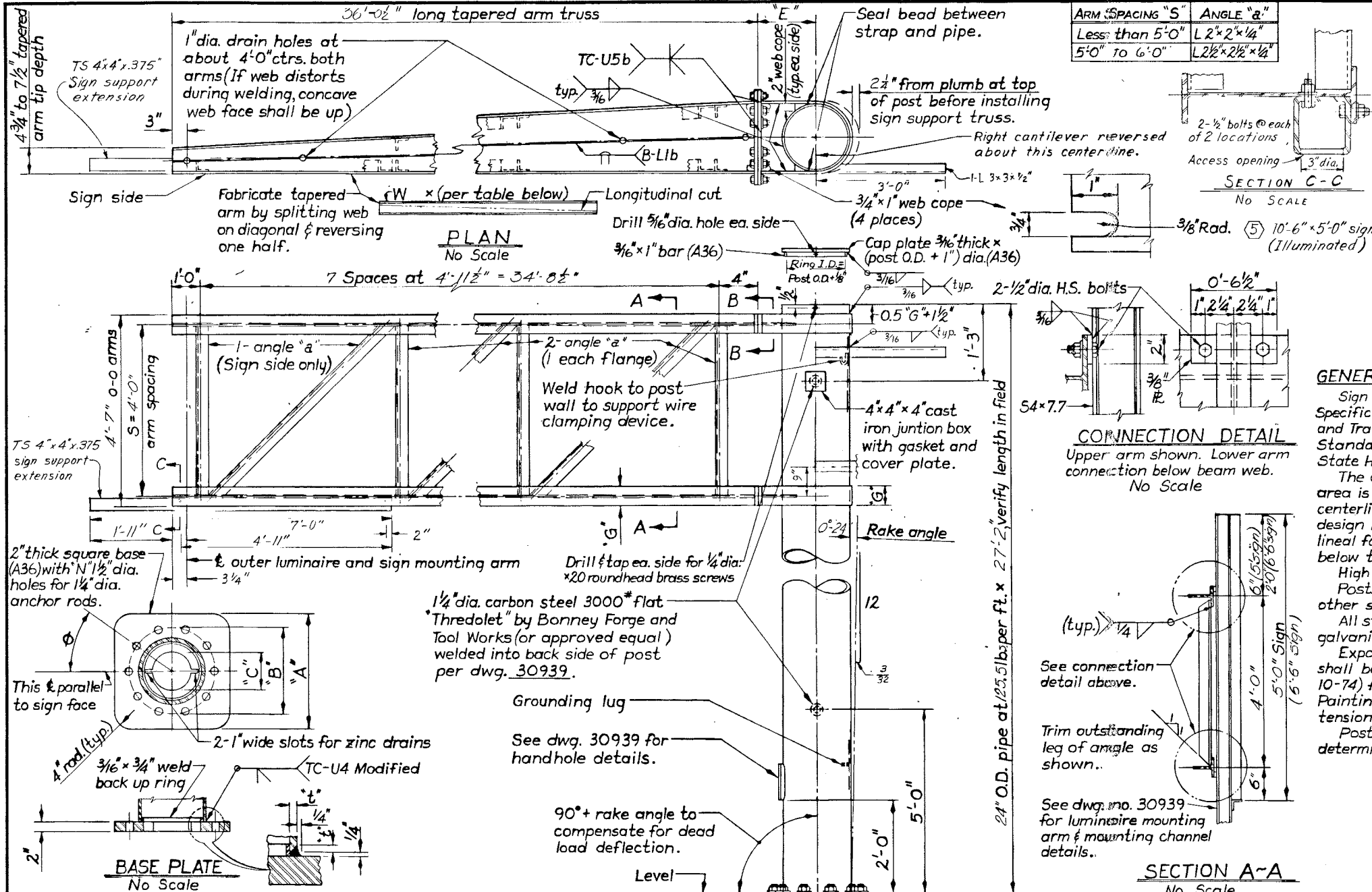
			1	CAT 5	2	ROADSIDE CABINET	3	POLE MOUNTED CAB	4	POWER PEDESTAL	5	PHONE PEDESTAL	6	PIEZO LOOPS	7	VIDEO LOOPS	NOTES:
				-		-		-		-		-		-		-	
			HEIGHT	8	POLE BASE	9	500 WATT FLASH	10	250 WATT FLASH	11	MKIII	12	MKIV	13	SLIM	14	MINI POLE
APPROACH	POLE	M1	10'		-		-		-		-		-		-		-
	POLE	F1	10'		-		-		-		-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



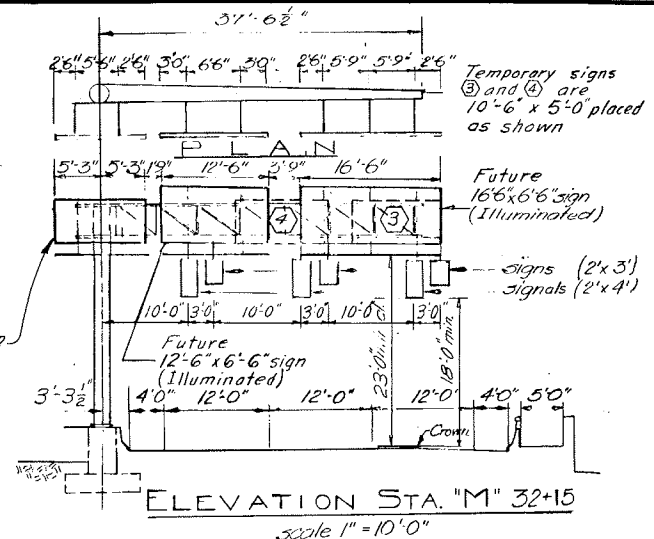
- | | | | |
|------------------------|---------------------|------------------------|-----------------------------------|
| 1 CAT 5 | 8 POLE BASE (PELCO) | 15 L.E.D. COUNTS | 22 POLE BASE FOR VIDEO LOOP |
| 2 ROADSIDE CABINET | 9 500 WATT FLASH | 16 LONG FLASH ARMS | 23 HAND HOLE DEFECTOR |
| 3 POLE 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 1-A POLE (DOT) | 28 WIRELESS ANTENNA FOR SPEED VAN |

SYSTEMS	SUB-SYSTEMS	APPLICATION	COMPUTERS	SCENE	PLATE	FACE	SCENE	PLATE	FACE	SOFTWARE	CABINET EQUIPMENT
MKIII	WITH ROADSIDE CABINET	USE SLIM SYSTEM FOR W/CABINET	5716	2 MPICS	6 MPIC UP TO FOUR LANES	6 MPIC 1-3 LANES 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD. SWITCH TO 4.8 IT BECOMES AVAILABLE	SDCM (LOOP-LOOP, PLP, PLPL, VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED, OTO-ISOLATOR SOLID STATE)
MKIV	WITH ROADSIDE CABINET	USE SLIM SYSTEM FOR FACE ENCL. CONTRACT	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES	6 MPIC 1-3 LANES 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD. SWITCH TO 4.8 IT BECOMES AVAILABLE	SDCM (LOOP-LOOP, PLP, PLPL, VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED, OTO-ISOLATOR SOLID STATE)
SLIM	POLE MOUNTED CABINET	POLE MOUNTED CABINET AS A PRIMARY SYS. WITH TWO SCENE ENCLOSURE	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES	6 MPIC 1-3 LANES 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD. SWITCH TO 4.8 IT BECOMES AVAILABLE	SDCM (LOOP-LOOP, PLP, PLPL, VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED, OTO-ISOLATOR SOLID STATE)
MINI POLE	81B POLE MOUNTED CABINET	USE ONE FOR POLE	6612 MB/WAFER	2 MPICS	6 MPIC UP TO FOUR LANES	6 MPIC 1-3 LANES 120' SHOT	6-12 MM	8-48 MM	80-200 MM	4.6.26.11 STD. SWITCH TO 4.8 IT BECOMES AVAILABLE	SDCM (LOOP-LOOP, PLP, PLPL, VIDEO) ROUTER HUB MODEM POWER DISTRIBUTION SYSTEM PHASE DETECTION RELAYS (INDUCTIVE, FUSED, OTO-ISOLATOR SOLID STATE)

<h2 style="text-align: center;">CITY OF RIVERSIDE, CA PUBLIC WORKS DEPARTMENT</h2>						
<p>PROJECT TITLE: RED LIGHT PHOTO ENFORCEMENT ON XXXXX & XXXXX BILL OF MATERIALS (BOM)</p>						
<p>PLAN SCALE: NTS</p>	<p>PROJECT CODE</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> <tr> <td> </td> </tr> <tr> <td> </td> </tr> </tbody> </table>	DESCRIPTION			
DESCRIPTION						
<p>SIGNATURE</p> <p>DESIGNED BY: <u>JOHN BARNES</u></p> <p>DRAWN BY: <u>CARLOS YILAYATZ</u></p> <p>DATE: _____</p>	<p>RED LIGHT PHOTO ENFORCEMENT CAMERAS A PRODUCT OF: REFLEX TRAFFIC SYSTEMS 6076 BRISTOL PKWY, SUITE 100 CULVER CITY, CA 90230 PH: 310 642 0470</p>	<p>PLAN NO.</p> <p>SHEET NO. 1 OF 1</p>				



ARM SPACING "S"	ANGLE "a"
Less than 5'-0"	L 2" x 2" x 1/4"
5'-0" To 6'-0"	L 2 1/2" x 2 1/2" x 1/4"



GENERAL NOTES:

Sign supports are designed in accordance with AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. All material and workmanship shall conform to Standard Specifications for Highway Construction of the Oregon State Highway Division.

The design wind velocity is 90 miles per hour. The design sign area is 241 square feet of 6'-1" high sign centered 13'-6" from post centerline. The design sign weighs 5 pounds per square foot and the design luminaire including mounting channels weighs 20 pounds per lineal foot, has an equivalent sign height of 1'-6" centered 0'-9" below the design sign and is as long as the design sign.

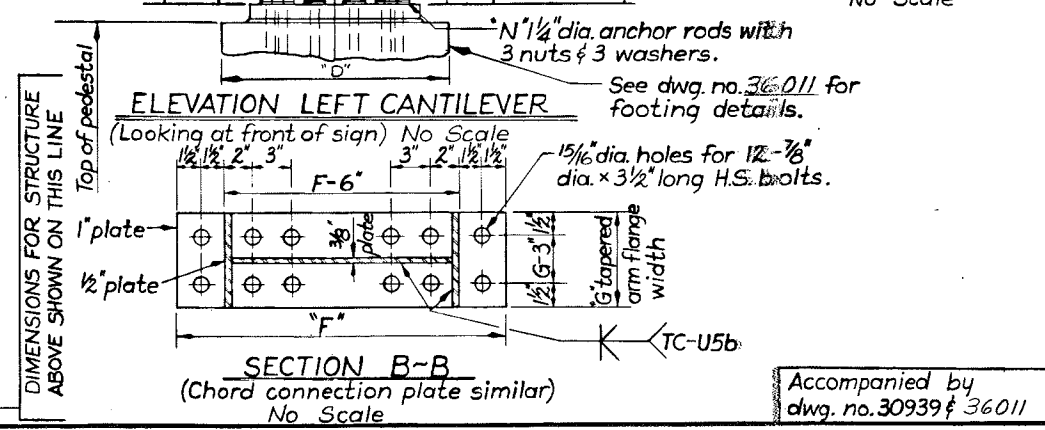
High strength bolts shall conform to A.S.T.M. Specification A-325. Posts shall conform to A.S.T.M. Specification A53, Grade B. All other structural steel shall conform to A.S.T.M. Specification A36.

All structural steel including fasteners shall be hot-dip galvanized after fabrication.

Exposed portion of anchor rods, anchor rod nuts and washers shall be painted with 2 coats of zinc chromate primer (formula 10-74) followed by 2 coats of aluminum paint (formula 15-74). Painting shall be started only after anchor rods are fully tensioned.

Posts shall not be fabricated until final elevations have been determined in field.

PIPE POST	CANTILEVER	TABULAR DIMENSIONS									
		ARM SIZE	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"N"	θ
12 3/4"	3/8"	W10 x 21	24"	18"	8"	34"	12"	19 3/4"	5 3/4"	6"	60°
14"	3/8"	"	26"	20"	10"	36"	13"	21"	"	6"	60°
14"	1/2"	"	26"	20"	10"	36"	13"	21"	"	8"	45°
16"	3/8"	W12 x 27	28"	22"	12"	38"	14"	23"	6 1/2"	8"	45°
16"	1/2"	"	28"	22"	12"	38"	14"	23"	"	10"	36°
18"	3/8"	"	30"	24"	14"	40"	15"	25"	"	8"	45°
18"	1/2"	"	30"	24"	14"	40"	15"	25"	"	12"	30°
20"	3/8"	W14 x 30	32"	26"	16"	42"	16"	27"	6 3/4"	10"	36°
20"	1/2"	"	32"	26"	16"	42"	16"	27"	"	12"	30°
22"	3/8"	"	34"	28"	18"	44"	17"	29"	"	12"	30°
22"	1/2"	"	34"	28"	18"	44"	17"	29"	"	14"	25.7°
24"	3/8"	W16 x 36	36"	30"	20"	46"	18"	31"	7"	12"	30°
24"	1/2"	"	36"	30"	20"	46"	18"	31"	7"	16"	22.5°



POST SHOP SPLICE
Weld permitted in top half of post only
Accompanied by dwg. no's 30937, 30938, 30939 & 30940

APPROVED: *W. H. Hart*
STRUCTURAL DESIGN ENGINEER

DESIGNED: *H. O. W.*
DRAWN: *W. M. T.*
CHECKED: *W. M. T.*
REVIEWED: *W. M. T.*
CALC. BOOK: 1824

DATE: 4-9-84 REVISION: As Constructed

OREGON DEPARTMENT OF TRANSPORTATION
STRUCTURAL DESIGN SECTION

**WILLAMETTE RIVER
(MARION STREET) BRIDGE**

**ARM CANTILEVER SIGN SUPPORT
AT STATION "M" 32+15**

DATE: 3/5-1981
BRIDGE NO. 7253B

SHEET 1 OF 12
DRAWING NO. 36010

