

# ST-20-03 ARTS TRAFFIC SIGNAL ENHANCEMENT PROJECT

PREPARED FOR:

## City of Albany

November 2023



**lancaster  
mobley**

321 SW 4th Avenue  
Portland, OR 97204  
(503)-248-0313  
lancastermobley.com



EXPIRES 12/31/2024

### SCHEDULE A SHEET INDEX: TRAFFIC SIGNAL IMPROVEMENTS

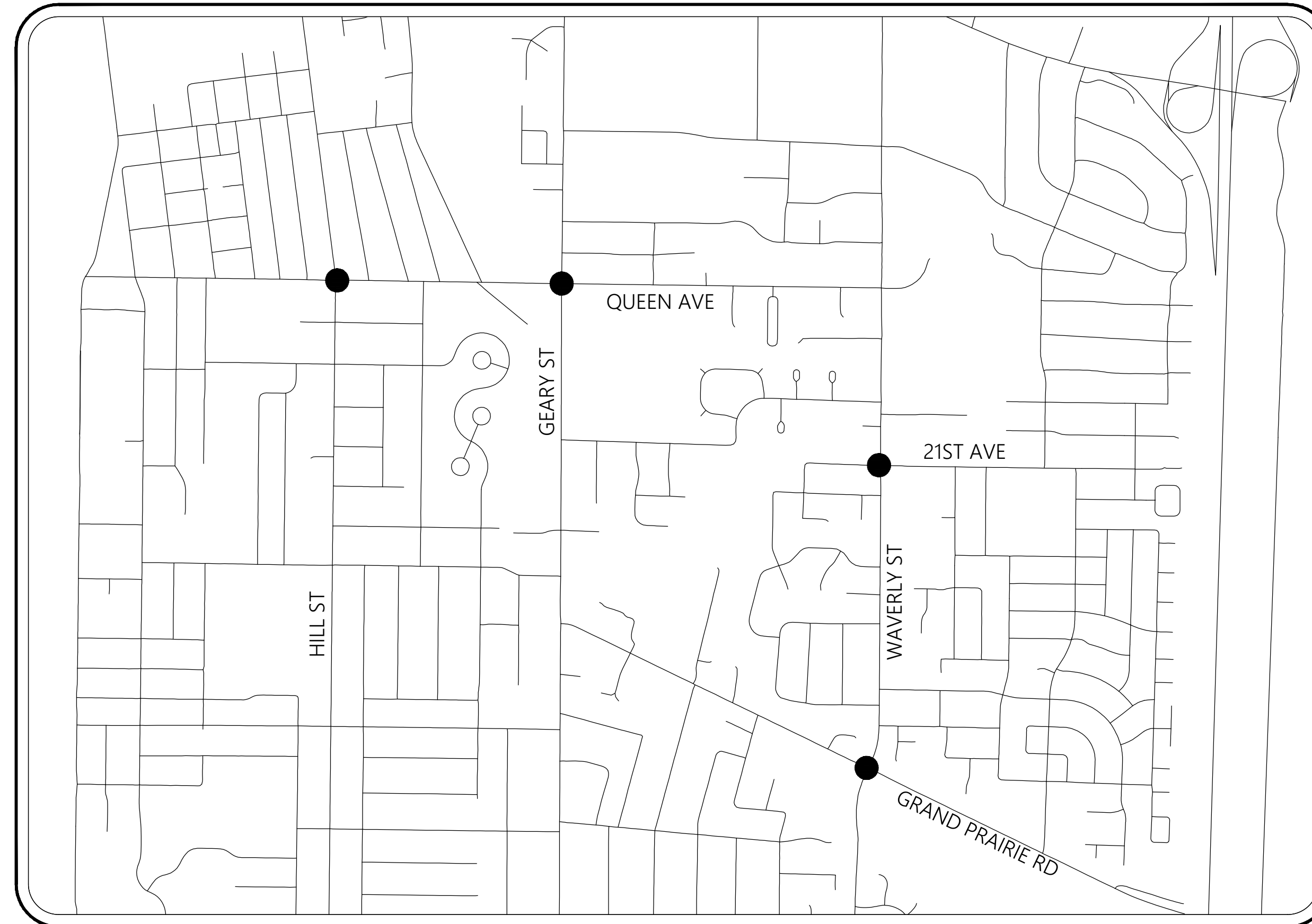
1	T1	COVER SHEET
2	T2	TRAFFIC LEGEND

QUEEN AVENUE AT HILL STREET		
3	T3	SIGNAL PLAN

QUEEN AVENUE AT GEARY STREET		
4	T4	SIGNAL PLAN

WAVERLY STREET AT 21ST AVENUE		
5	T5	SIGNAL PLAN

WAVERLY STREET AT GRAND PRAIRIE ROAD		
6	T6	SIGNAL PLAN



VICINITY MAP  
1" = 1000'



### SITE INFORMATION:

- QUEEN AVENUE AT HILL STREET
- QUEEN AVENUE AT GEARY STREET
- WAVERLY STREET AT 21ST AVENUE
- WAVERLY STREET AT GRAND PRAIRIE ROAD

REVISIONS		By:	By:	By:
Rev:	Des:			
Rev:	Des:			
Rev:	Des:			

### STANDARDS:

ALL PLANS FOLLOW THE CITY OF ALBANY STANDARD CONSTRUCTION SPECIFICATIONS.

ALL PLANS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL EROSION PREVENTION AND SEDIMENT CONTROL REGULATIONS.

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT (503-232-1987).

### PROJECT CONTACTS:

TRAFFIC ENGINEER  
LANCASTER MOBLEY  
CONTACT: Todd Mobley, PE  
ADDRESS: 321 SW 4th Avenue, Suite 400  
Portland, Oregon 97204  
503.248.0313  
EMAIL: todd@lancastermobley.com



Know what's **below**.  
**Call** before you dig.  
Dial 811 or 800-332-2344

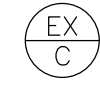
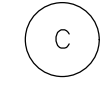

**ALBANY A.R.T.S. UPGRADES  
COVER PAGE**

Job No. 20100  
Designed By: JLH  
Drawn By: JLH  
Checked By: TEM  
Date: 11/21/23





**T1**

# LEGEND



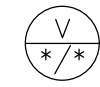
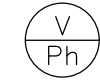


## CONTROLLERS

-  RETAIN AND PROTECT EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
-  CONTROLLER CABINET (SEE SIGNAL PLAN)
-  RETAIN AND PROTECT EXISTING TERMINAL CABINET

## POLES

-  RETAIN AND PROTECT EXISTING TRAFFIC SIGNAL MAST ARM
-  RETAIN AND PROTECT EXISTING MAST ARM POLE
-  RETAIN AND PROTECT EXISTING TRAFFIC SIGNAL MAST ARM POLE WITH LUMINAIRE EXTENSION
-  RETAIN AND PROTECT EXISTING PEDESTRIAN SIGNAL PEDESTAL

## SIGNALS

-  RETAIN AND PROTECT EXISTING (Ph=PHASE) VEHICLE SIGNAL
-  REMOVE EXISTING FIVE SECTION VEHICLE SIGNAL (DOGHOUSE TYPE)
-  INSTALL FOUR SECTION VEHICLE SIGNAL WITH FLASHING YELLOW ARROW FOR PHASE (\*) AND PHASE (\*) WITH ADJUSTABLE BRACKET
-  INSTALL THREE SECTION (Ph=PHASE) VEHICLE SIGNAL WITH ADJUSTABLE BRACKET
-  REINSTALL EXISTING (Ph=PHASE) VEHICLE SIGNAL
-  RETAIN AND PROTECT EXISTING COUNTDOWN PEDESTRIAN SIGNAL WITH AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON



## JUNCTION BOXES

-  RETAIN AND PROTECT EXISTING JUNCTION BOX



## FIRE PREEMPTION

-  RETAIN AND PROTECT EXISTING FIRE PREEMPTION DETECTOR UNIT

## SIGNS

-  REMOVE EXISTING INTERIOR ILLUMINATED SIGN
-  RETAIN AND PROTECT EXISTING INTERIOR ILLUMINATED SIGN



## CONDUITS

-  RETAIN AND PROTECT EXISTING (S=SIZE WHEN SHOWN) INCH ELECTRICAL CONDUIT
-  RETAIN AND PROTECT EXISTING (S=SIZE WHEN SHOWN) INCH DETECTOR CONDUIT

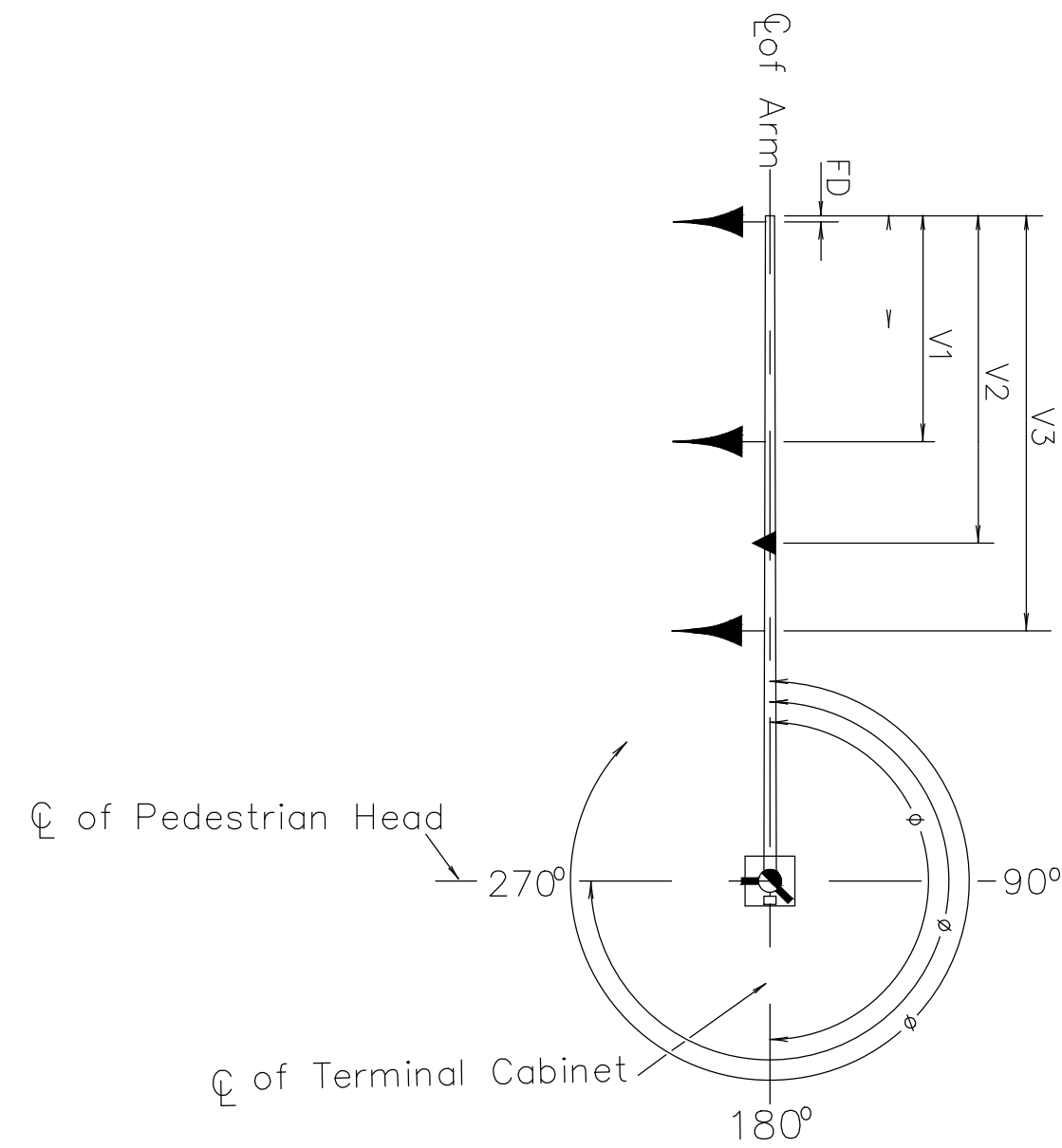
## WIRES & CABLES

-  RETAIN AND PROTECT EXISTING WIRING

## LIGHTING

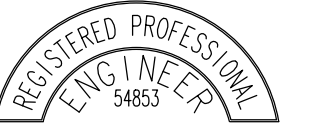
-  RETAIN AND PROTECT EXISTING LED LUMINAIRE
-  RETAIN AND PROTECT EXISTING PHOTOELECTRIC CONTROL RELAY

## ORIENTATION DIAGRAM



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REVISIONS	
Rev:	By:
Des:	By:
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**ALBANY A.R.T.S. UPGRADES  
SIGNAL, DETECTION, AND STRIPING  
LEGEND**  
Albany, Oregon

Job No. 20100  
Designed By: JLH  
Drawn By: JLH  
Checked By: TEM  
Date: 11/21/23

**T2**

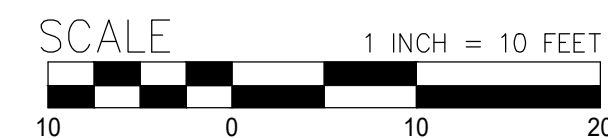
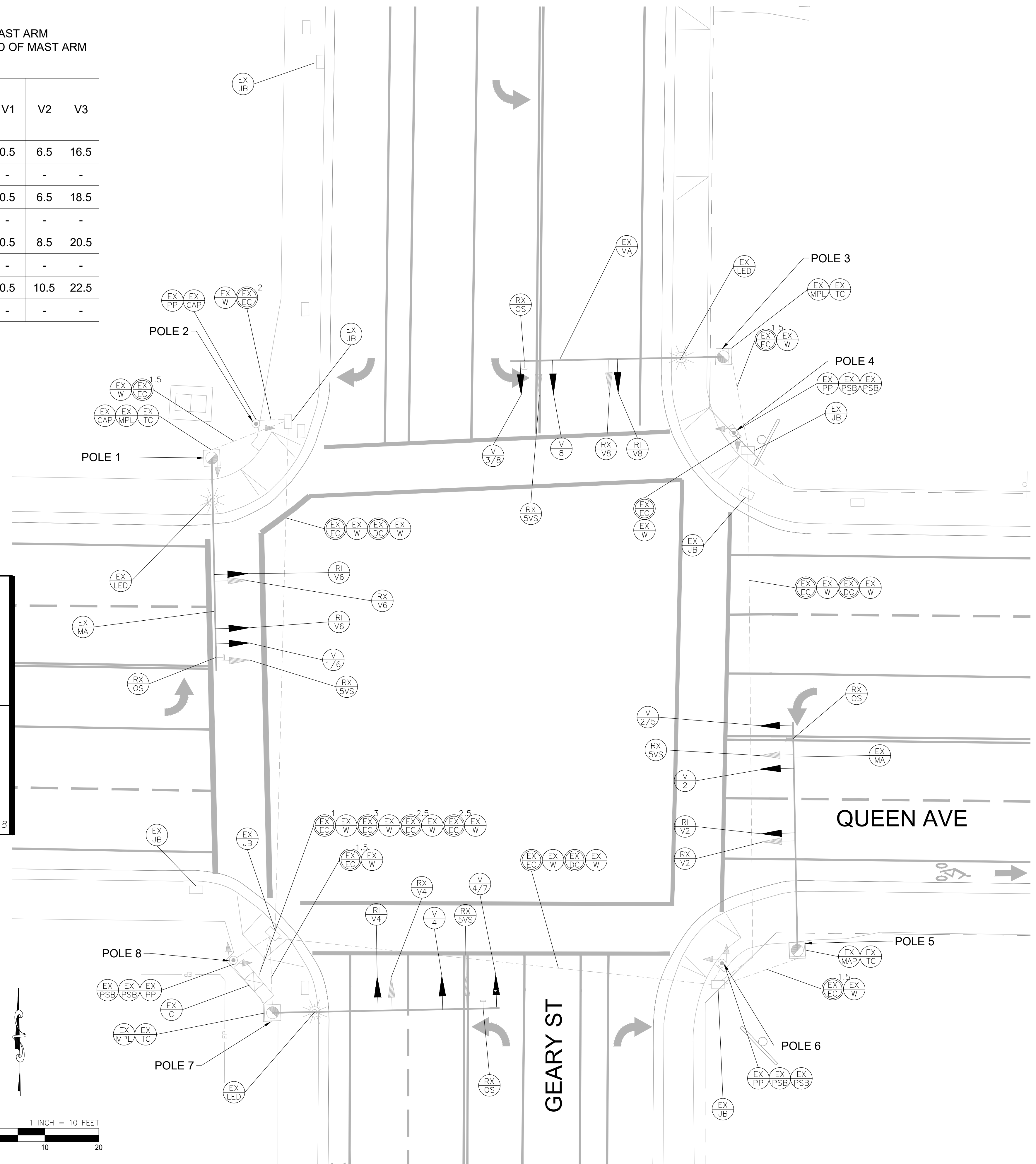
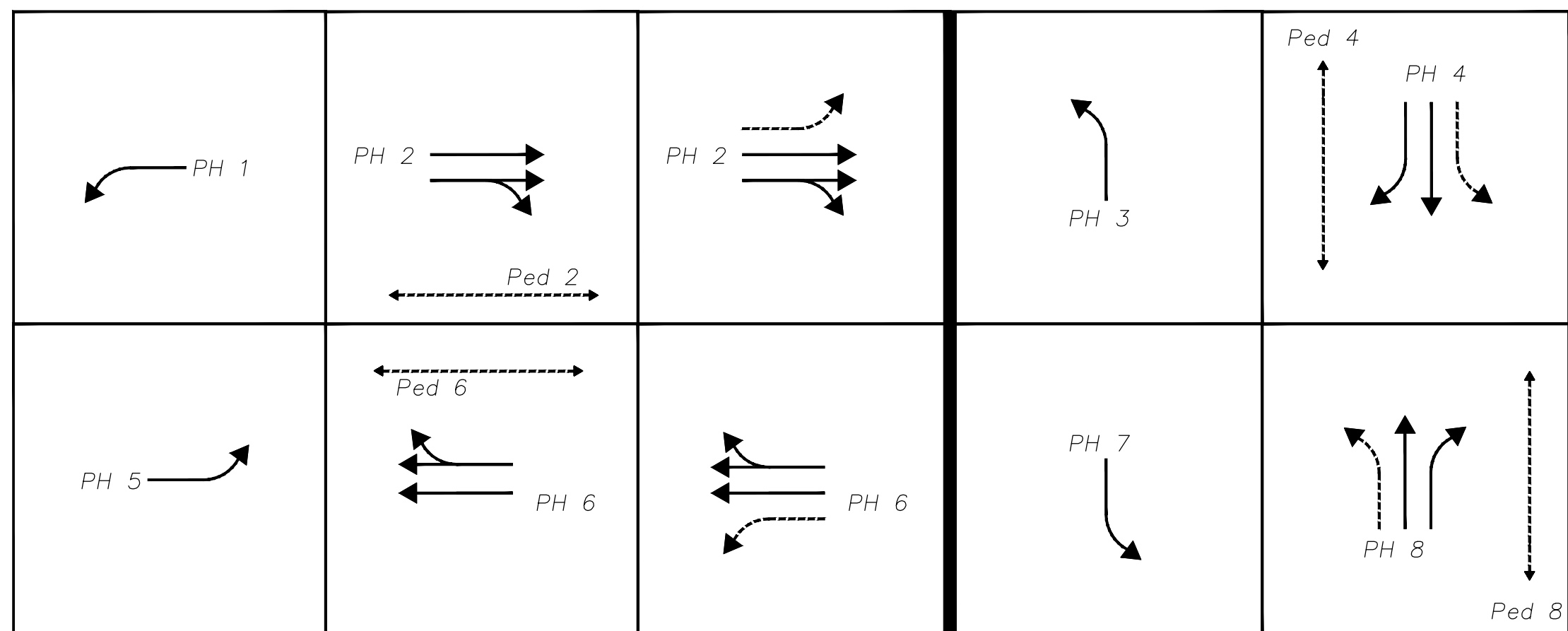




POLE ENTRANCE CHART

POLE NO.	TYPE	EQUIPMENT ON POLE					EQUIPMENT ON MAST ARM				
		MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	MAP	EX	EX	EX	EX	EX	40	-	0.5	6.5	16.5
2	PP	-	-	-	EX	EX	-	-	-	-	-
3	MPL	EX	EX	EX	-	-	40	-	0.5	6.5	18.5
4	PP	-	-	-	EX, EX	EX, EX	-	-	-	-	-
5	MAP	EX	-	EX	-	-	40	-	0.5	8.5	20.5
6	PP	-	-	-	EX, EX	EX, EX	-	-	-	-	-
7	MAP	EX	EX	EX	-	-	40	-	0.5	10.5	22.5
8	PP	-	-	-	EX, EX	EX, EX	-	-	-	-	-

NORMAL PHASE ROTATION DIAGRAM



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**ALBANY A.R.T.S. UPGRADES**  
**QUEEN AVE AT GEARY ST**  
Signal Modification Plan  
Albany, Oregon

Job No. 20100  
Designed By: JLH  
Drawn By: JLH  
Checked By: TEM  
Date: 11/21/23

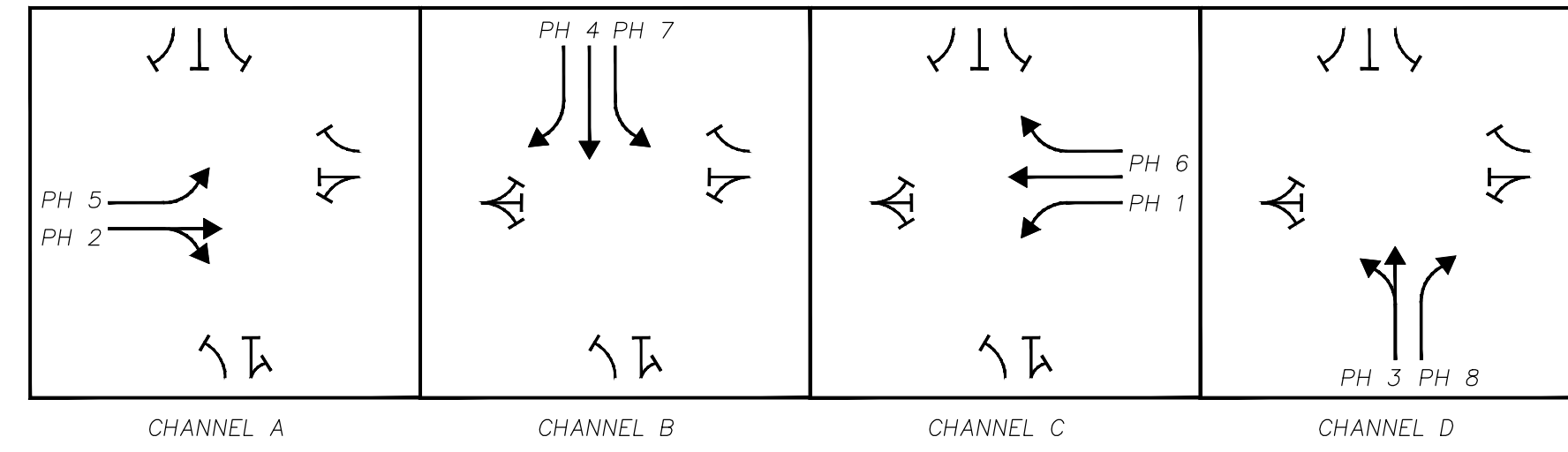
**T4**



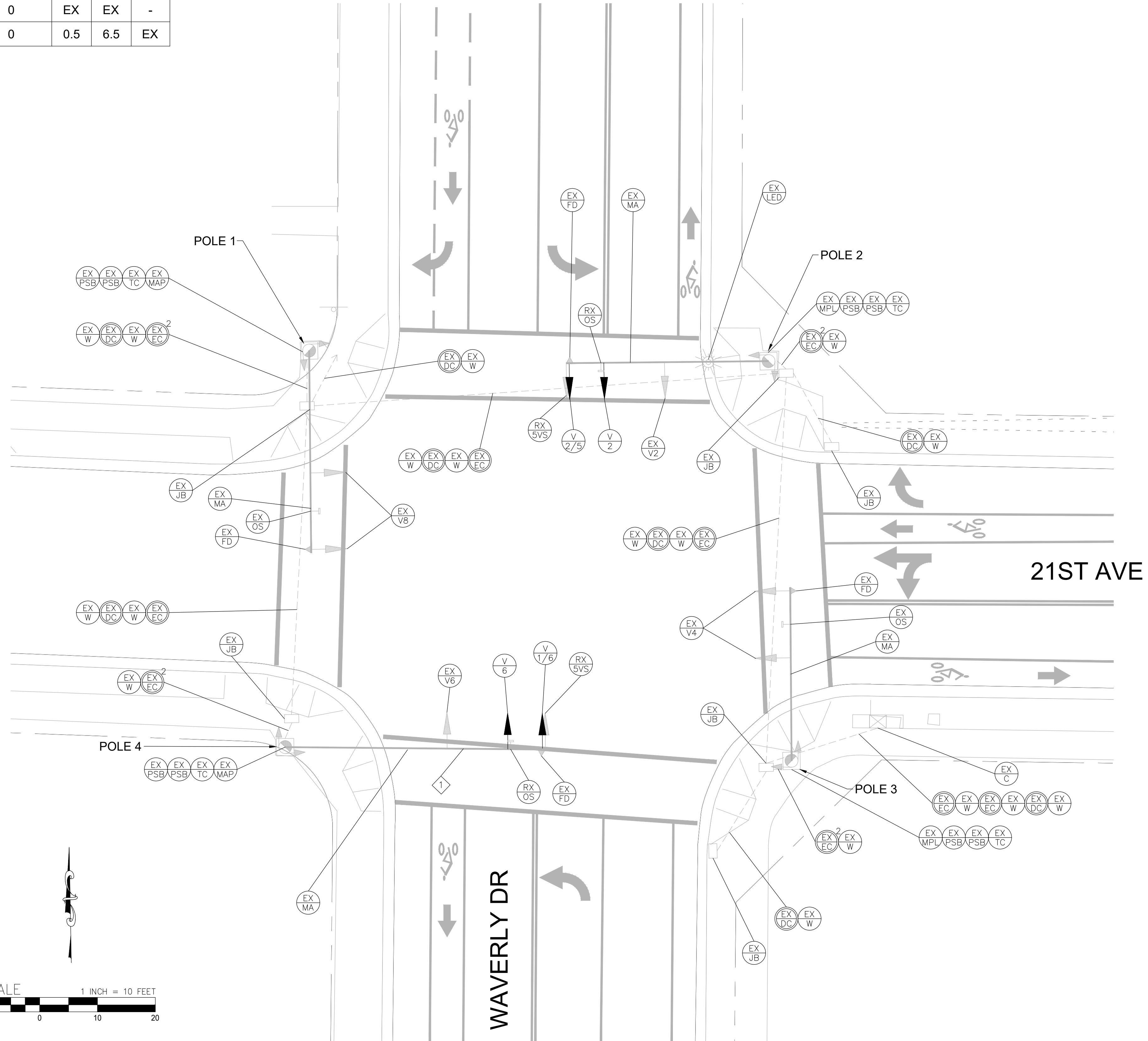
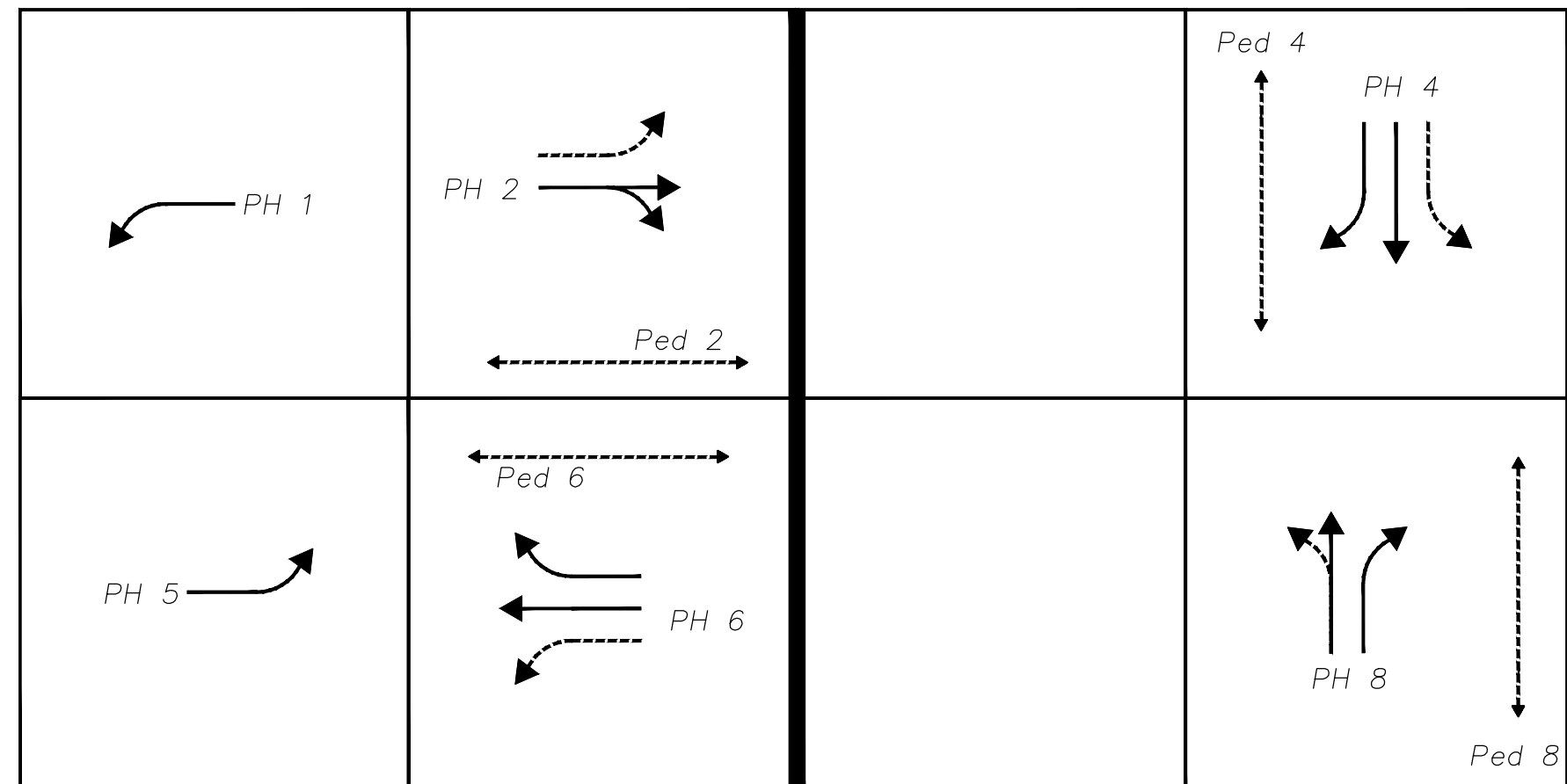
POLE ENTRANCE CHART

POLE NO.	TYPE	EQUIPMENT ON POLE					EQUIPMENT ON MAST ARM				
		MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	MAP	EX	-	EX	EX, EX	EX, EX	35	0	EX	EX	-
2	MPL	EX	EX	EX	EX, EX	EX, EX	35	0	0.5	6.5	EX
3	MAP	EX	-	EX	EX, EX	EX, EX	30	0	EX	EX	-
4	MAP	EX	-	EX	EX, EX	EX, EX	45	0	0.5	6.5	EX

FIRE PREEMPTION DIAGRAM

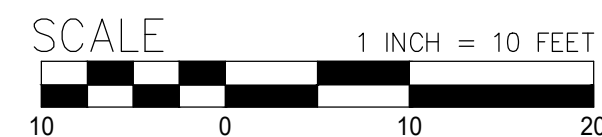


NORMAL PHASE ROTATION DIAGRAM



CONSTRUCTION NOTES

1 RETAIN AND PROTECT EXISTING BLANK SIGN ON TOP OF MAST ARM WHICH REDUCES WIND VIBRATION



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**ALBANY A.R.T.S. UPGRADES  
WAVERLY DR AT 21ST AVE**  
Signal Modification Plan  
Albany, Oregon

Job No. 20100  
Designed By: JLH  
Drawn By: JLH  
Checked By: TEM  
Date: 11/21/23

**T5**



