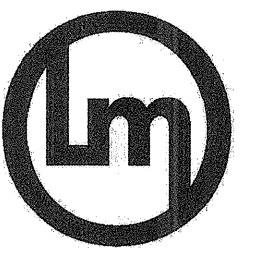


ST-20-03 ARTS TRAFFIC SIGNAL ENHANCEMENT PROJECT

PREPARED FOR:
City of Albany

January 2022



**lancaster
mobley**

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



EXPIRES 12/31/2022

SCHEDULE A SHEET INDEX: TRAFFIC SIGNAL IMPROVEMENTS

1	T1	COVER SHEET
2	T2	TRAFFIC LEGEND

QUEEN AVENUE AT HILL STREET

3	C101	CURB RETURN
4	C102	CURB RETURN
5	T3	SIGNAL PLAN
6	T4	DETECTOR PLAN

QUEEN AVENUE AT GEARY STREET

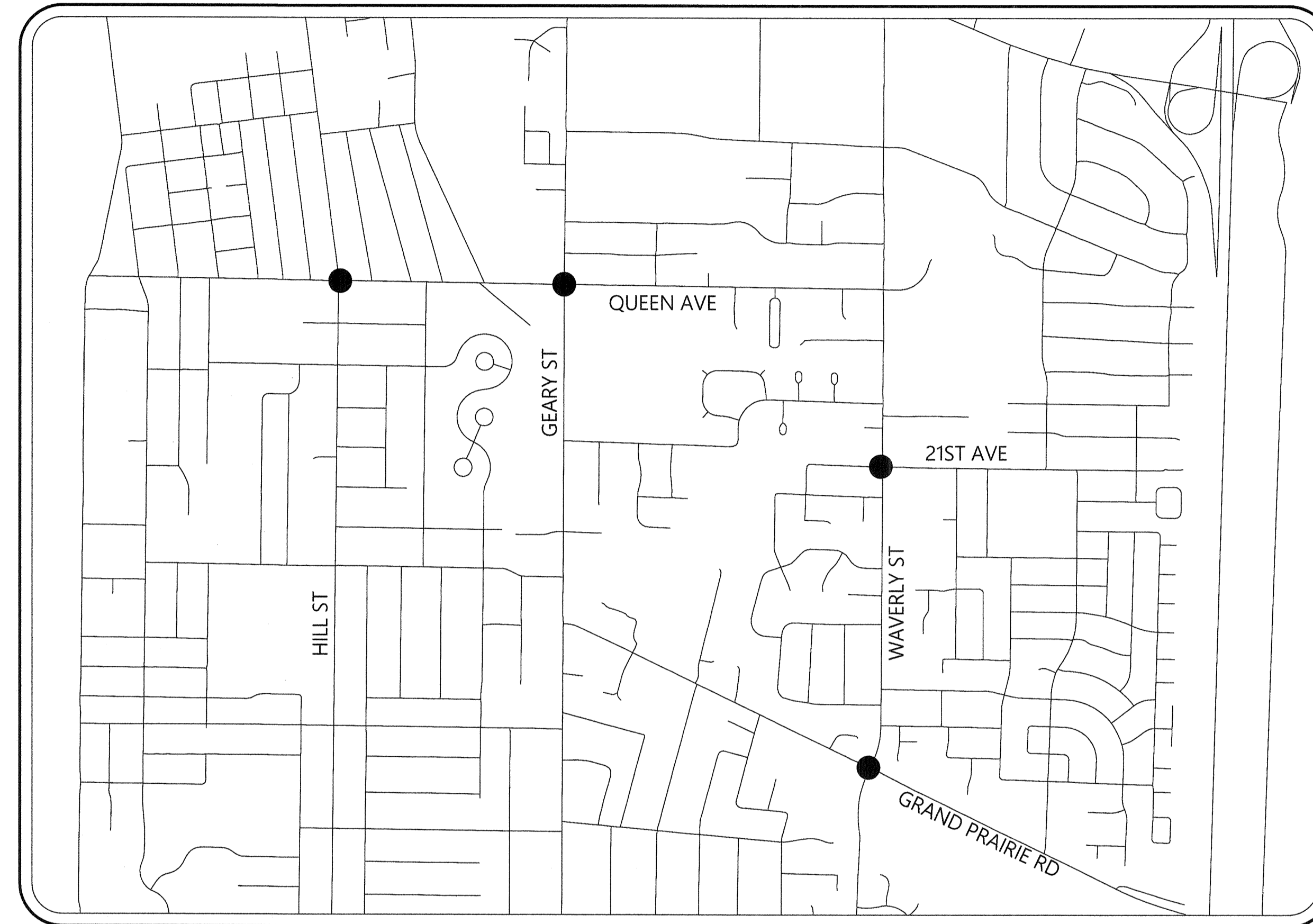
7	C103	CURB RETURN
8	C104	CURB RETURN
9	T5	SIGNAL PLAN
10	T6	DETECTOR REMOVAL PLAN
11	T7	DETECTOR INSTALL PLAN
12	T8	STRIPING PLAN

WAVERLY STREET AT 21ST AVENUE

13	C105	CURB RETURN
14	C106	CURB RETURN
15	T9	SIGNAL PLAN
16	T10	DETECTOR PLAN

WAVERLY STREET AT GRAND PRAIRIE ROAD

17	C107	CURB RETURN
18	C108	CURB RETURN
19	T11	SIGNAL PLAN
20	T12	DETECTOR 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

SCHEDULE B SHEET INDEX: PERIWINKLE PATH IMPROVEMENTS

B-1	EXISTING CONDITIONS AND DEMOLITION
B-2	MULTI-USE PATH CONSTRUCTION
B-3	THURSTON STREET RECTANGULAR RAPID FLASHING BEACON
B-4	MAIN STREET RECTANGULAR RAPID FLASHING BEACON
B-5	BICYCLE RAMP DETAIL
B-6	CULVERT CROSSING DETAIL
B-7	RECTANGULAR RAPID FLASHING BEACON DETAIL
B-8	GENERAL DETAILS

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

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EMAIL: todd@lancastermobley.com

CIVIL ENGINEER
AKS ENGINEERING & FORESTRY, LLC

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Keizer, Oregon 97303
PHONE: 503.400.6028
EMAIL: richardw@aks-eng.com



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

REVISIONS	By:	By:	By:
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ALBANY A.R.T.S. UPGRADES
COVER PAGE

Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

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
- REMOVE EXISTING PEDESTRIAN SIGNAL PEDESTAL
- INSTALL PEDESTRIAN SIGNAL PEDESTAL WITH FRANGIBLE BASE

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
- REMOVE EXISTING PEDESTRIAN SIGNAL, PUSHBUTTON, AND INSTRUCTION SIGN
- INSTALL PHASE (Ph=phase) COUNTDOWN PEDESTRIAN SIGNAL WITH AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON

JUNCTION BOXES

- RETAIN AND PROTECT EXISTING JUNCTION BOX
- RETAIN AND PROTECT EXISTING SAND POCKET
- RETAIN AND PROTECT EXISTING CAST IRON STREET BOX
- REMOVE EXISTING JUNCTION BOX
- REMOVE EXISTING STREET BOX
- JUNCTION BOX (SEE SIGNAL PLAN)
- INSTALL (T=TYPE) JUNCTION BOX. SEE ODOT STANDARD DRAWING TM472 FOR TYPES AND DIMENSIONS
- INSTALL 6" MAX. SAND POCKET BLOCK-OUT WITH (S=SIZE) INCH CONDUIT TO JUNCTION BOX

FIRE PREEMPTION

- RETAIN AND PROTECT EXISTING FIRE PREEMPTION DETECTOR UNIT

CONDUITS

- RETAIN AND PROTECT EXISTING (S=SIZE WHEN SHOWN) INCH ELECTRICAL CONDUIT
- RETAIN AND PROTECT EXISTING (S=SIZE WHEN SHOWN) INCH DETECTOR CONDUIT
- DETECTOR CONDUIT (SEE DETECTOR PLAN)
- ELECTRICAL CONDUIT (SEE SIGNAL PLAN)
- INSTALL SIZE (S=size) INCH CONDUIT

SIGNS

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

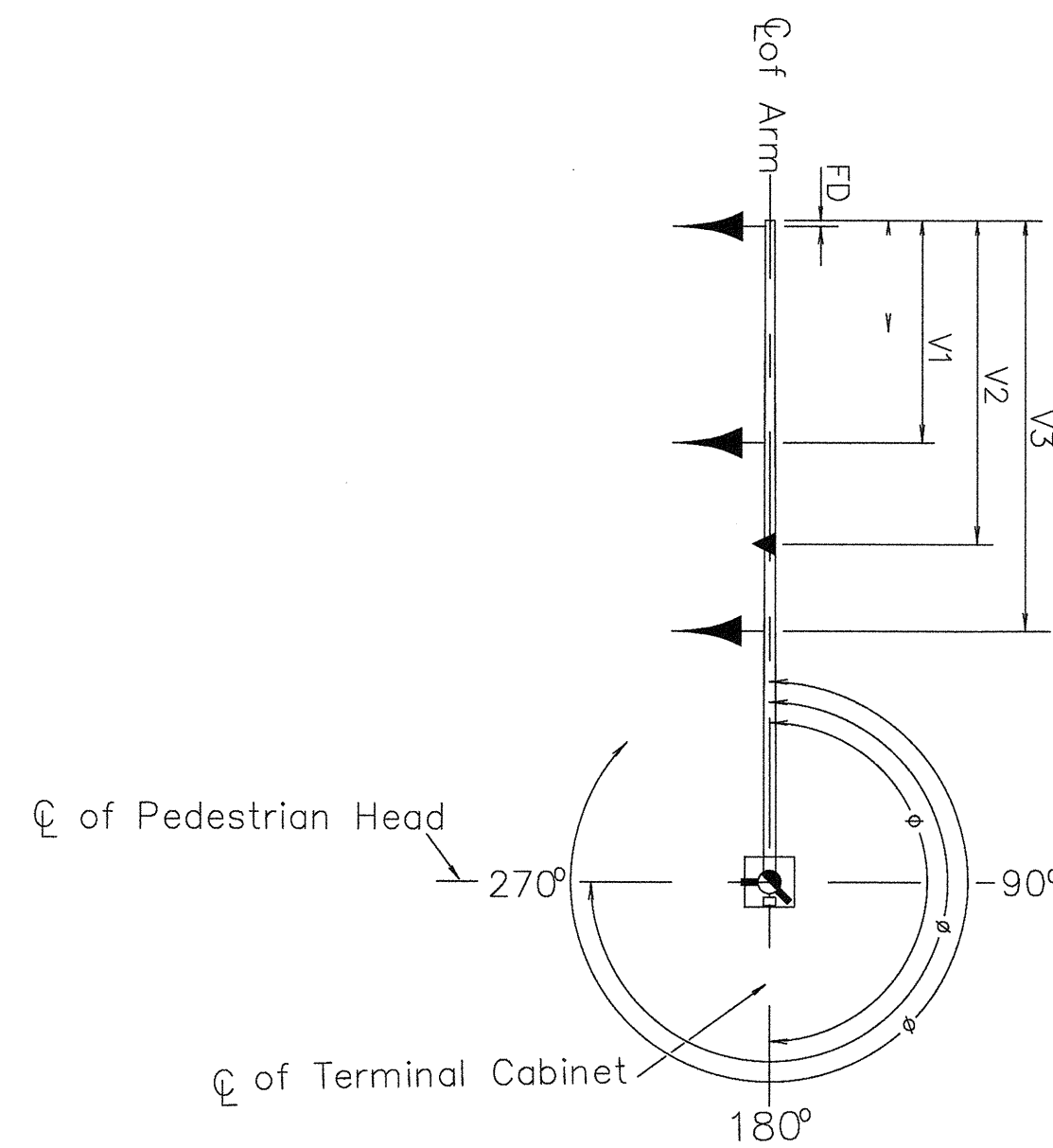
DETECTION

- RETAIN AND PROTECT EXISTING VEHICLE DETECTOR LOOP
- RETAIN AND PROTECT EXISTING BICYCLE DETECTOR LOOP
- ABANDON EXISTING VEHICLE DETECTOR LOOP
- REMOVE EXISTING BICYCLE DETECTOR LOOP
- INSTALL VEHICLE DETECTION LOOP (Ph=PHASE)
- INSTALL BICYCLE DETECTION LOOP (Ph=PHASE)
- INSTALL (N=NUMBER) LOOP WIRES

WIRES & CABLES

- RETAIN AND PROTECT EXISTING WIRING
- REMOVE EXISTING WIRING
- REINSTALL EXISTING WIRING
- INSTALL (N) NO. 8 TYPE THWN (SIGNAL SYSTEM COMMON)
- INSTALL (N) NO. (G) TYPE THWN WIRES

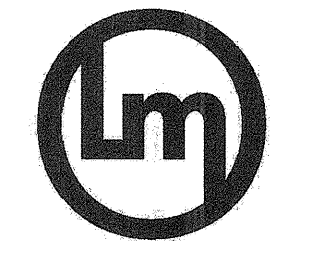
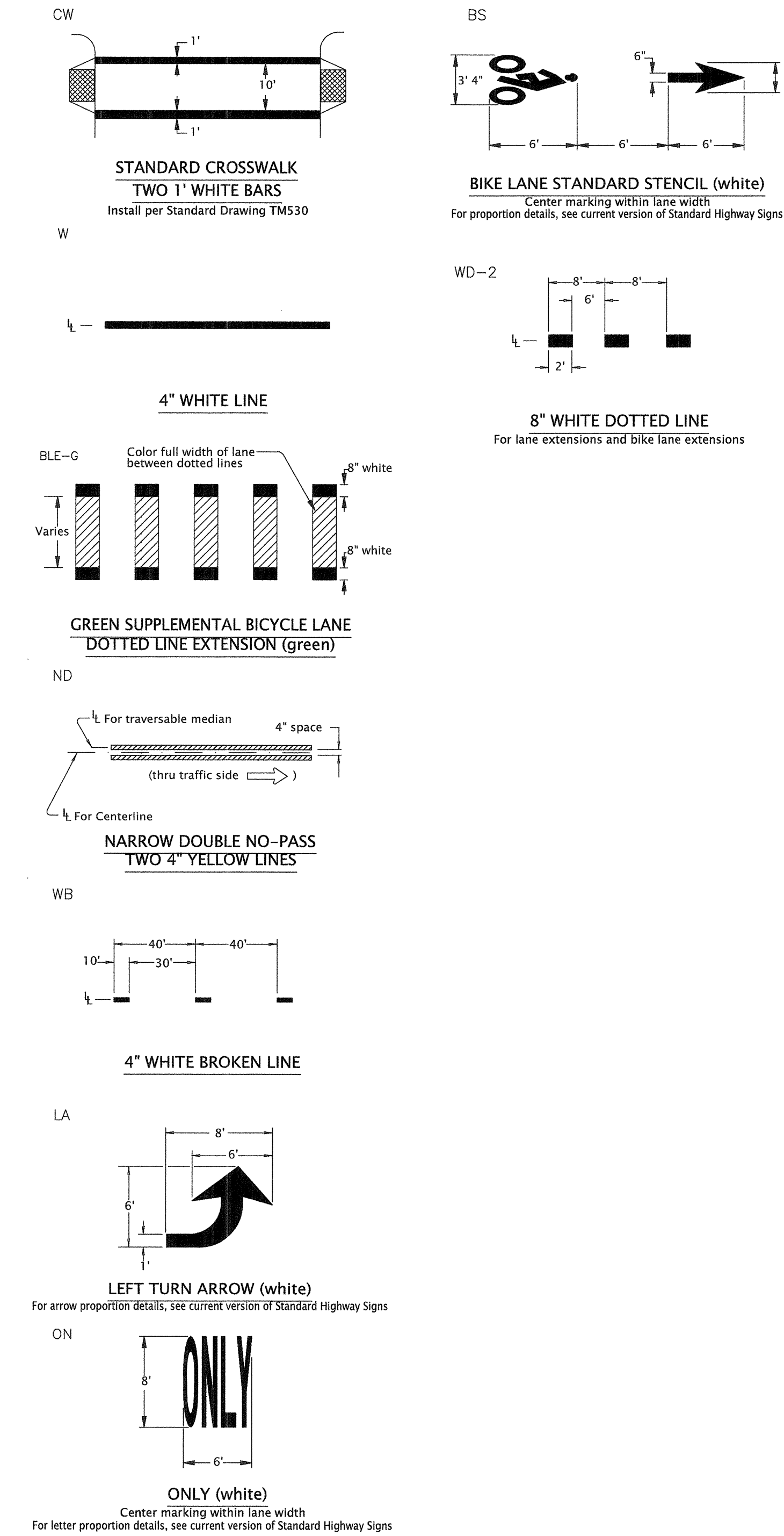
ORIENTATION DIAGRAM



STRIPING SYMBOLS

- REMOVE EXISTING (V=STRIPING NOTATION)
- EXISTING (V=STRIPING NOTATION)
- INSTALL (V=STRIPING NOTATION)

STRIPING NOTATIONS



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Rev:	By:
Des:	By:

ALBANY A.R.T.S. UPGRADES SIGNAL, DETECTION, AND STRIPING LEGEND

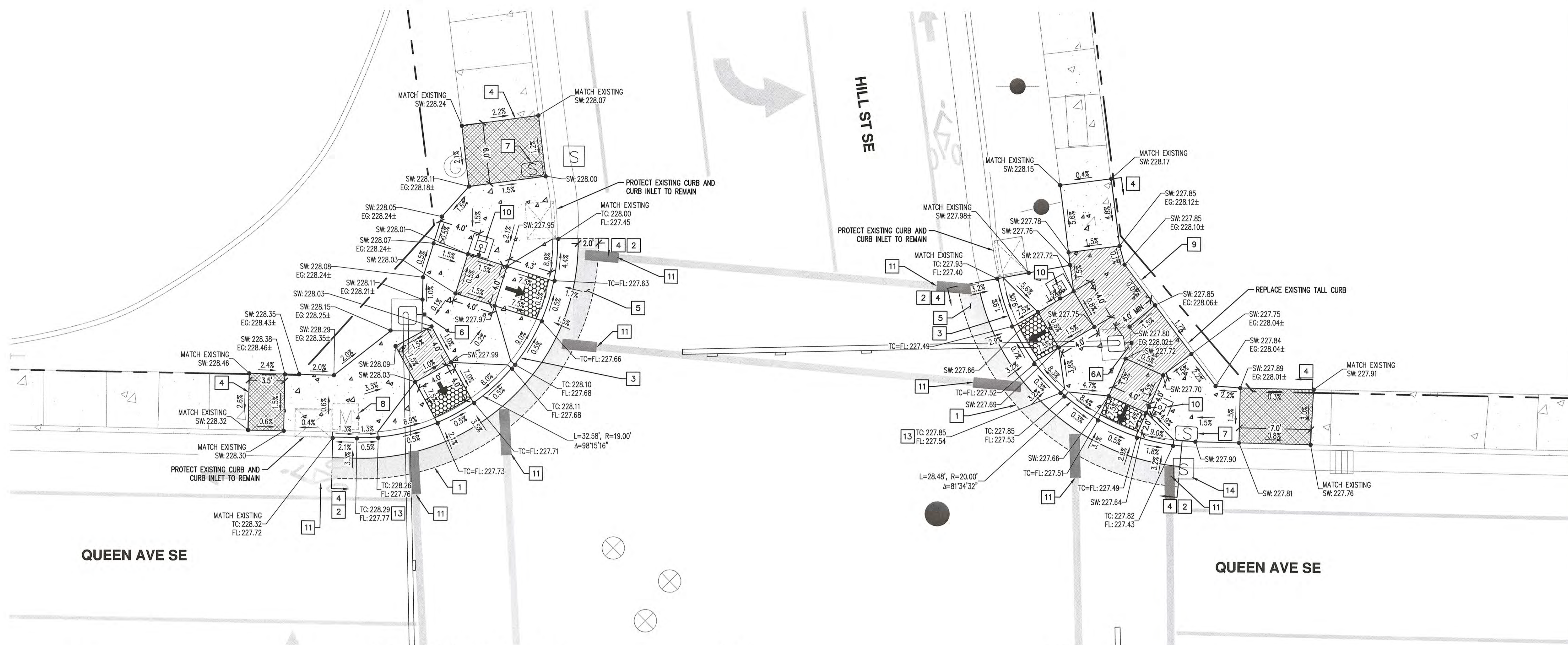
Albany, Oregon

Job No. 20100
 Designed By: JLH
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 Checked By: TEM
 Date: 1/28/22



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CR-01

CR-02

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

- SAWCUT AS REQUIRED TO FORM AND POUR CONCRETE. 2 FT FROM GUTTER PAN (TYPICAL), OR AS SPECIFIED ON PLANS. REPLACE ALL STRIPING AND LEGENDS AS REQUIRED. MATCH EXISTING.
- TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
- CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
- SAWCUT AT NEXT FURTHEST JOINT, REMOVE AND REPLACE EXISTING CURB, CURB RAMP AND/OR SIDEWALK AS SHOWN.
- ASPHALT PATCH PER CITY OF ALBANY STANDARD DETAIL NO. 207. MATCH EXISTING. EXISTING PAVEMENT DEPTHS BASED ON AS-BUILTS ARE AS FOLLOWS:

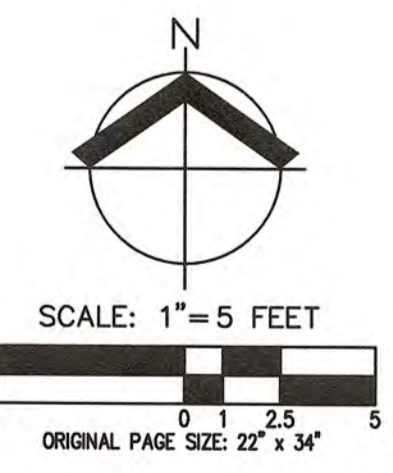
QUEEN/HILL	11 INCHES
QUEEN/GEARY	10 INCHES
WAVERLY/21ST	6 INCHES
WAVERLY/GRAND PRAIRIE	11 INCHES
- SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS SIGNAL IMPROVEMENTS AND PUSH BUTTON INSTALLATION DETAILS.
- CONTRACTOR TO GRIND EXISTING SIGNAL FOUNDATION AS NECESSARY TO 2-INCHES BELOW NEW SIDEWALK GRADE AS SHOWN ON PLANS. FINISH WITH SEALTIGHT, MEADOW-PATCH 20 (IN LIGHT GRAY) OR EQUAL. USE OF JACK-HAMMER OR OTHER CHIPPING EQUIPMENT ON POLE FOUNDATION IS PROHIBITED.
- CONTRACTOR TO REPLACE EXISTING JUNCTION BOX AND ADJUST TO FINISH GRADE AS REQUIRED. SEE LANCASTER MOBLEY PLANS FOR RELOCATION.
- CONTRACTOR TO ADJUST WATER STRUCTURE TO FINISH GRADE. COORDINATE WITH CITY OF ALBANY FORCES AS REQUIRED.
- CONSTRUCT TALL CURB. COORDINATE WITH CITY OF ALBANY FOR INSTALLATION.
- CONSTRUCT LANDSCAPE CURB PER CITY OF ALBANY CURB RAMP DETAILS.
- NEW PEDESTRIAN PUSH BUTTON POLE. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS.
- REPLACE STRIPING LEGEND
- NEW CROSSWALK LEGEND STRIPING. REMOVE EXISTING CROSSWALK AND ROAD STRIPING FOR RELOCATED CROSSWALK.
- HIGH POINT
- CONTRACTOR TO ADJUST SAWCUT LOCATION AND PROTECT EXISTING LOOP DETECTION EQUIPMENT. COORDINATE WITH CITY INSPECTOR AS NECESSARY.
- NEW SHARED USE STRIPING. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS

NOTES

- SIDEWALK CROSS SLOPE DESIGNED TO 1.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED CROSS-SLOPE SHALL NOT EXCEED 2%.
- RAMP RUNNING SLOPE DESIGNED TO 7.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED RUNNING SLOPE SHALL NOT EXCEED 8.33% UNLESS RAMP EXTENDS TO MAXIMUM 15-FT LENGTH.
- REMOVE EXISTING SIDEWALK TO NEXT FURTHEST PANEL JOINT AT MATCH POINTS IF DESIGNED MATCH POINT NOT LOCATED AT EXISTING PANEL JOINT.
- VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS.
- IF EXISTING CROSS SLOPE AT MATCH POINT EXCEEDS 2%, INSTALL TRANSITION PANEL FROM NEW RAMP/SIDEWALK TO EXISTING. THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING ALL SIDEWALK TO MEET ADA AND JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR SHALL CONTACT CITY INSPECTOR ONCE FORMS ARE IN PLACE TO CHECK FORMS PRIOR TO POURING CONCRETE. CONTRACTOR SHALL ALLOT A MINIMUM OF 24 HOUR WINDOW (NOT INCLUDING WEEKEND OR HOLIDAYS) FOR INSPECTION PRIOR TO SCHEDULED POUR.
- FINISHED GRADE OF SIDEWALK AT PEDESTRIAN PUSH BUTTONS SHALL BE MINIMUM 3.5-FT AND MAXIMUM 4-FT BELOW EXISTING PUSH BUTTONS. NEW PUSH BUTTONS SHALL BE INSTALLED AT 3.5-FT ABOVE FINISH GRADE OF SIDEWALK MEASURED TO CENTER OF PUSH BUTTON.
- LANDING AREA CROSS AND RUNNING SLOPE DESIGNED TO 1.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED CROSS AND RUNNING SLOPE SHALL NOT EXCEED 2%.
- SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS FOR ALL STRIPING, POWER STRUCTURE, SIGNAL AND PEDESTRIAN SIGNAL IMPROVEMENTS.
- CONTRACTOR TO RESTORE/REPLACE ALL LANDSCAPING IN KIND TO EQUAL OR BETTER CONDITION.

LEGEND

- TC TOP OF CURB
- FL GUTTER FLOWLINE
- EG EXISTING GRADE
- SW SIDEWALK
- X.XX DOWNWARD SLOPE
- ← CURB RAMP
- LANDING
- CROSS SLOPE TRANSITION PANEL
- DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ASPHALT PATCH
- PEDESTRIAN POLE AND BASE
- PUSH BUTTON

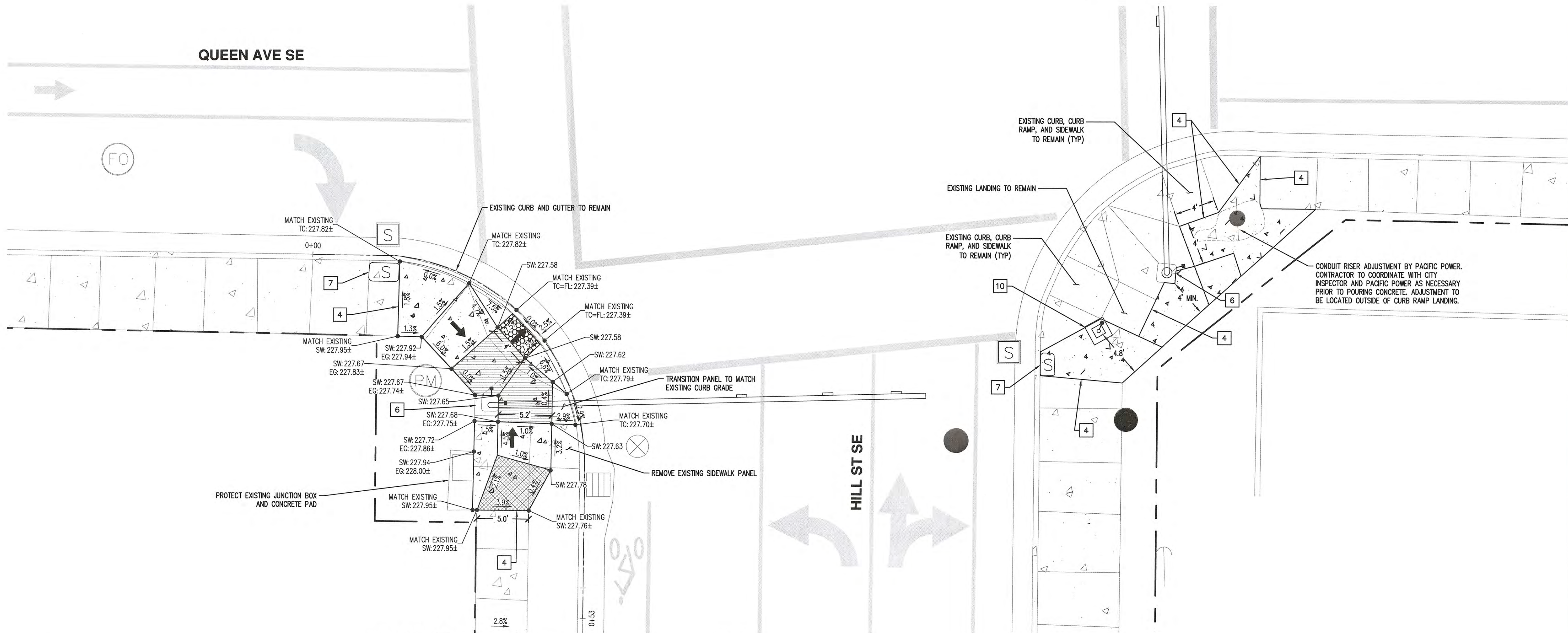


ALBANY A.R.T.S. UPGRADES
CURB RETURN

Job No.	AKS JOB #8232
Designed By:	RCW
Drawn By:	GHB
Checked By:	RCW
Date:	1/27/22

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3700 RIVER RD N, STE 1
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503.400.6028
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FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE



CR-03

CR-04

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

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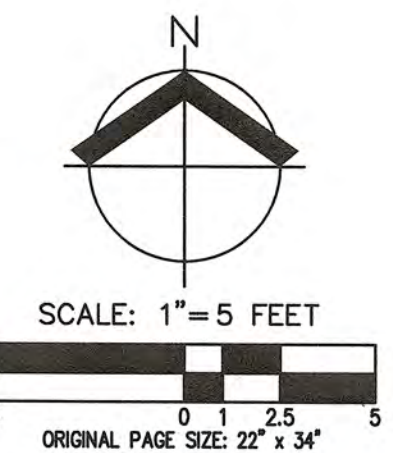
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9. CONSTRUCT TALL CURB. COORDINATE WITH CITY OF ALBANY FOR INSTALLATION.
- 9A. CONSTRUCT LANDSCAPE CURB PER CITY OF ALBANY CURB RAMP DETAILS.
10. NEW PEDESTRIAN PUSH BUTTON POLE. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS.
11. REPLACE STRIPING LEGEND
12. NEW CROSSWALK LEGEND STRIPING. REMOVE EXISTING CROSSWALK AND ROAD STRIPING FOR RELOCATED CROSSWALK.
13. HIGH POINT
14. CONTRACTOR TO ADJUST SAWCUT LOCATION AND PROTECT EXISTING LOOP DETECTION EQUIPMENT. COORDINATE WITH CITY INSPECTOR AS NECESSARY.
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11. CONTRACTOR TO RESTORE/REPLACE ALL LANDSCAPING IN KIND TO EQUAL OR BETTER CONDITION.

LEGEND

- TC TOP OF CURB
- FL GUTTER FLOWLINE
- EG EXISTING GRADE
- SW SIDEWALK
- X.XX DOWNWARD SLOPE
- ← CURB RAMP
- LANDING
- CROSS SLOPE TRANSITION PANEL
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REVISIONS

Rev.	By	Des.

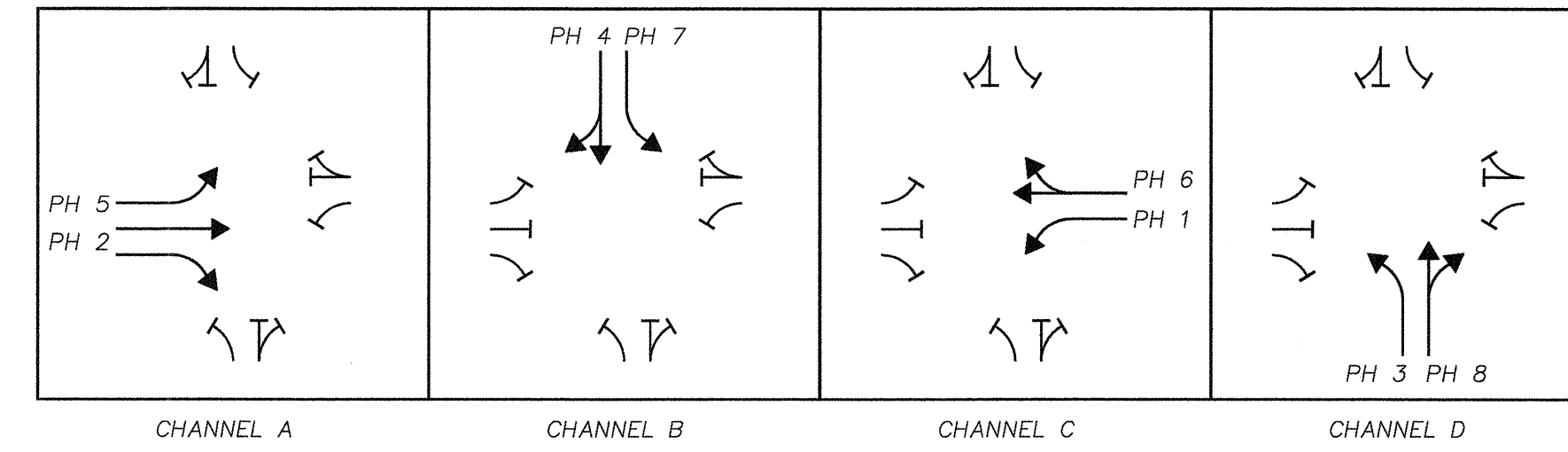
**ALBANY A.R.T.S. UPGRADES
 CURB RETURN**

Job No. AKS JOB #8232
 Designed By: RCW
 Drawn By: GHB
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 Date: 1/27/22

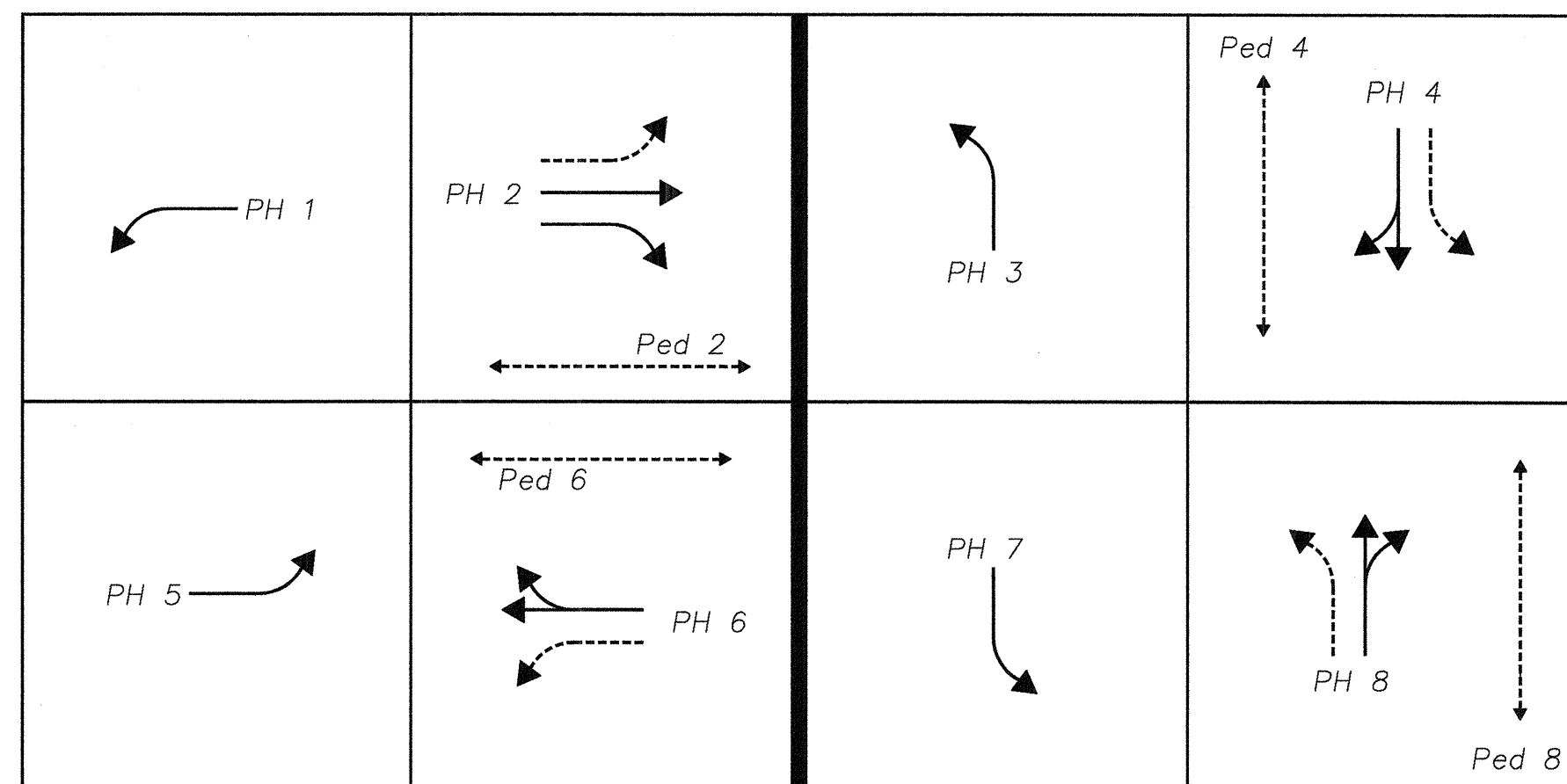
POLE ENTRANCE CHART

POLE NO.	TYPE	EQUIPMENT ON POLE			ORIENTATION ANGLE			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	270	90	35	0	0.5	6.5	18
2	PP	-	-	-	0	180	-	-	-	-	-
3	PP	-	-	-	270	-	-	-	-	-	-
4	MAP	EX	-	EX	-	90, 180	30	0	0.5	6.5	16
5	PP	-	-	-	0	-	-	-	-	-	-
6	MAP	EX	-	EX	270	90	35	0	0.5	6.5	17
7	PP	-	-	-	0	180	-	-	-	-	-
8	MPL	EX	-	EX	0, 270	90, 180	30	0	0.5	6.5	17

FIRE PREEMPTION DIAGRAM

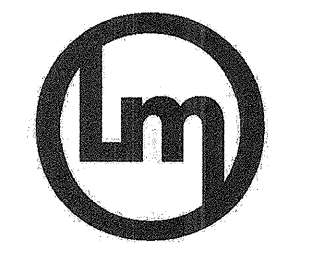
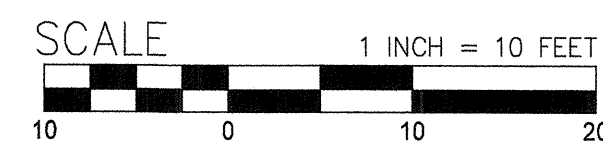
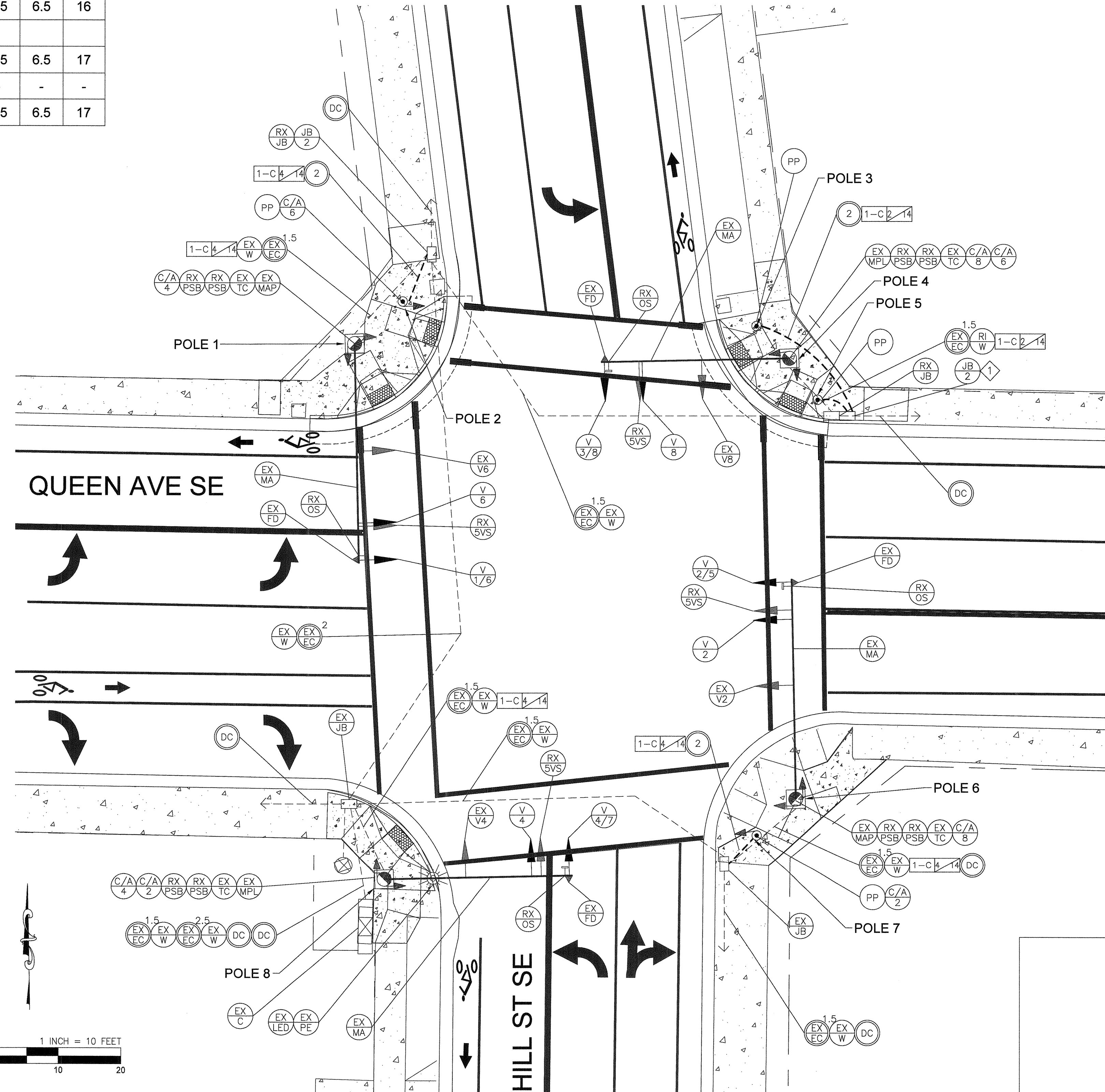


NORMAL PHASE ROTATION DIAGRAM



CONSTRUCTION NOTES

1 INTERCEPT AND SPLICE INTO EXISTING CONDUIT



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

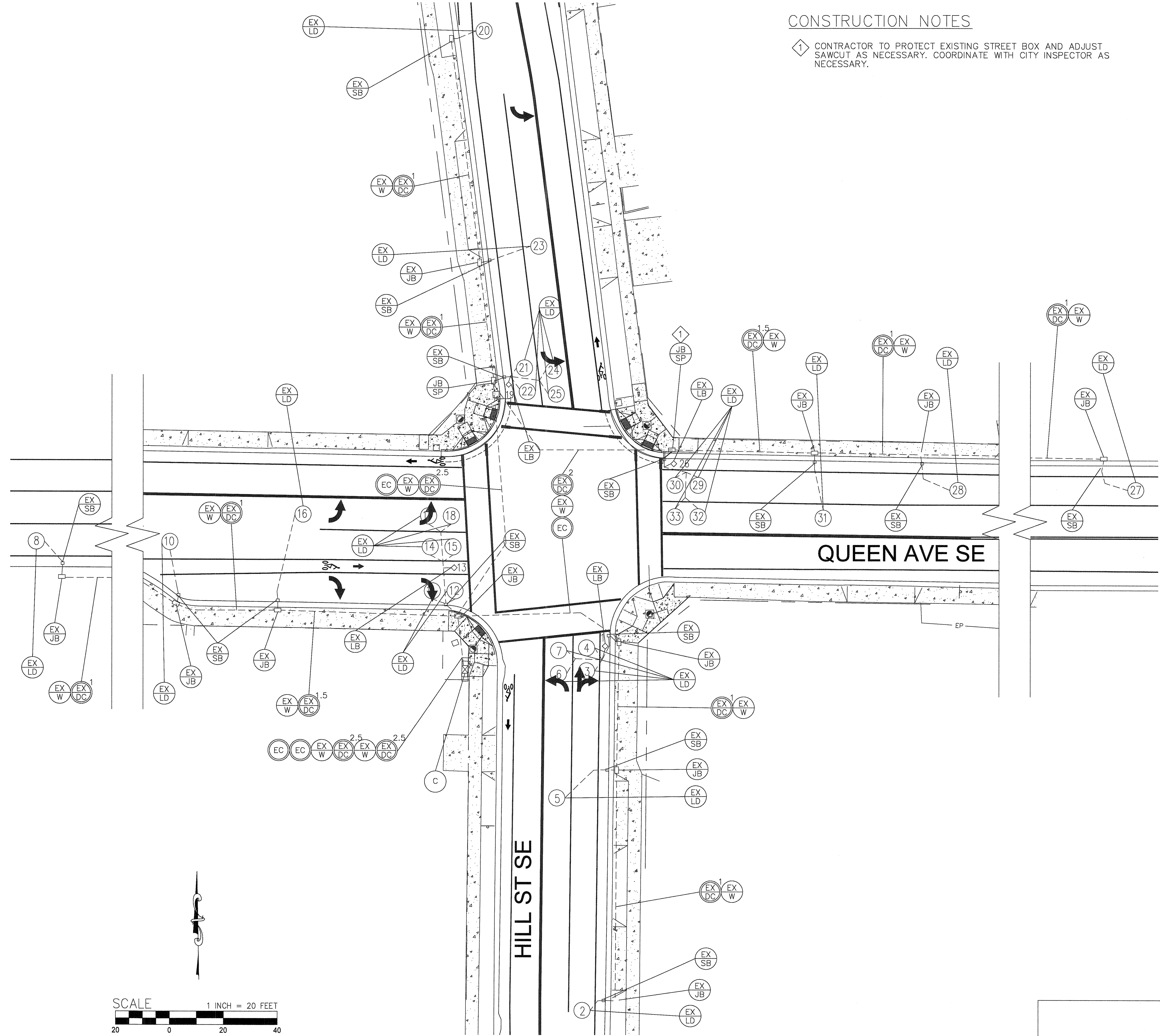
Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

T3

LOOP/RADAR WIRING DIAGRAM

LOOP #	DISTANCE (FEET)	PHASE	FUNCTION	SLOT
1	4	8	E, C, CO	J6U
2	140	8	E, C, CO	J6L
3	16			
4	5	8	E, C	J7U
5	76	3	E, C, CO	I5U
6	16			
7	5	3	E, C	I9L
8	220	2	E, C, CO	I2U
9	NOT INSTALLED			
10	110	2	E, C, CO	I2L
11	16			
12	5	2	E, C	I3L
13	4	2	E, C, CO	I3U
14	16			
15	5	2	E, C	I4U
16	76	5	E, C, CO	J1U
17	16			
18	5	5	E, C	J9U
19	4	4	E, C, CO	I6U
20	140	4	E, C, CO	I6L
21	16			
22	5	4	E, C	I7U
23	76	7	E, C, CO	J5U
24	16			
25	5	7	E, C	J9L
26	4	6	E, C, CO	J2U
27	220	6	E, C, CO	J2L
28	110	6	E, C, CO	J3U
29	16			
30	5	6	E, C	J3L
31	76	1	E, C, CO	I1U
32	16			
33	5	1	E, C	I9U

NO WORK

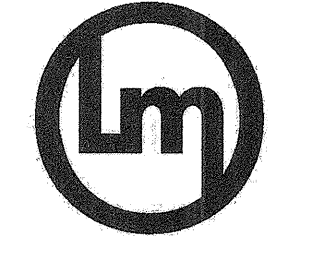
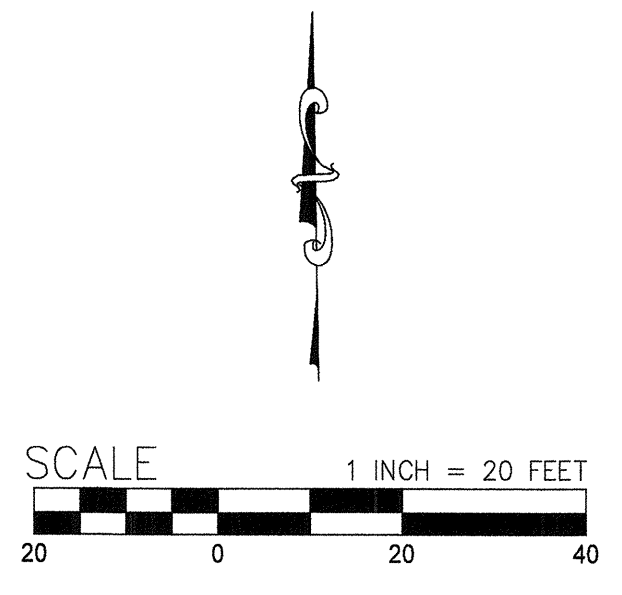


CONSTRUCTION NOTES

1 CONTRACTOR TO PROTECT EXISTING STREET BOX AND ADJUST SAWCUT AS NECESSARY. COORDINATE WITH CITY INSPECTOR AS NECESSARY.

GENERAL NOTES:

DETECTION NOT IMPACTED BY SIGNAL AND INTERSECTION MODIFICATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES TO SYSTEM



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Portland, OR 97204
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REVISIONS	By:
Rev: _____	By: _____
Des: _____	By: _____
Rev: _____	By: _____
Des: _____	By: _____
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Des: _____	By: _____

ALBANY A.R.T.S. UPGRADES
QUEEN AVE AT HILL ST
Detection Modification Plan
Albany, Oregon

Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

T4

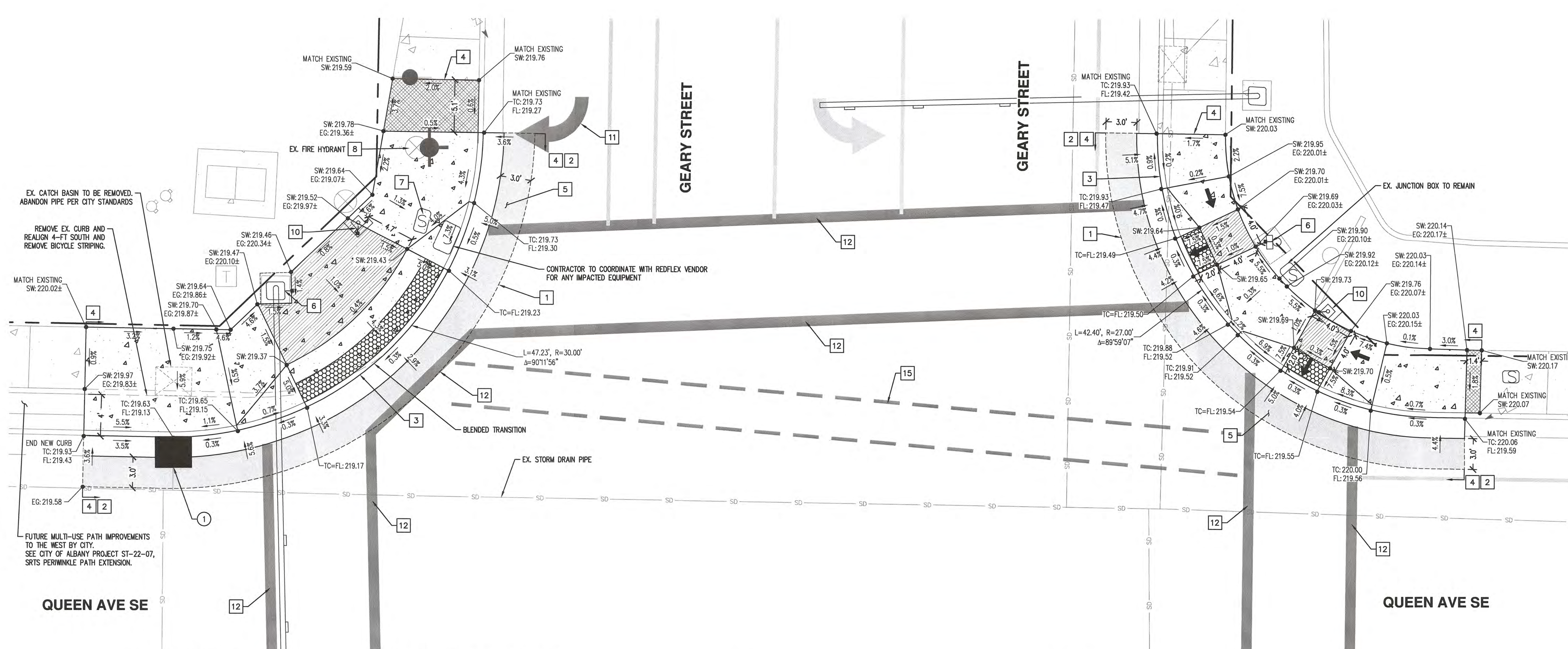


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REVISIONS	By:	Des:



STORM KEYED NOTES #

CR-05

- CONSTRUCT CATCH BASIN PER CITY OF ALBANY STANDARD DETAIL NO. 414.
RIM: 219.13±
IE OUT: 215.46±
CONNECT TO EXISTING STORM PIPE

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

- SAWCUT AS REQUIRED TO FORM AND POUR CONCRETE. 2 FT FROM GUTTER PAN (TYPICAL), OR AS SPECIFIED ON PLANS. REPLACE ALL STRIPING AND LEGENDS AS REQUIRED. MATCH EXISTING.
- TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
- CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
- SAWCUT AT NEXT FURTHEST JOINT, REMOVE AND REPLACE EXISTING CURB, CURB RAMP AND/OR SIDEWALK AS SHOWN.
- ASPHALT PATCH PER CITY OF ALBANY STANDARD DETAIL NO. 207. MATCH EXISTING. EXISTING PAVEMENT DEPTHS BASED ON AS-BUILTS ARE AS FOLLOWS:

QUEEN/HILL	11 INCHES
QUEEN/GEARY	10 INCHES
WAVERLY/21ST	6 INCHES
WAVERLY/GRAND PRAIRIE	11 INCHES
- SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS SIGNAL IMPROVEMENTS AND PUSH BUTTON INSTALLATION DETAILS.
- CONTRACTOR TO GRIND EXISTING SIGNAL FOUNDATION AS NECESSARY TO 2-INCHES BELOW NEW SIDEWALK GRADE AS SHOWN ON PLANS. FINISH WITH SEALTIGHT, MEADOW-PATCH 20 (IN LIGHT GRAY) OR EQUAL. USE OF JACK-HAMMER OR OTHER CHIPPING EQUIPMENT ON POLE FOUNDATION IS PROHIBITED.
- CONTRACTOR TO REPLACE EXISTING JUNCTION BOX AND ADJUST TO FINISH GRADE AS REQUIRED. SEE LANCASTER MOBLEY PLANS FOR RELOCATION.
- CONTRACTOR TO ADJUST WATER STRUCTURE TO FINISH GRADE. COORDINATE WITH CITY OF ALBANY FORCES AS REQUIRED.
- CONSTRUCT TALL CURB. COORDINATE WITH CITY OF ALBANY FOR INSTALLATION.
- CONSTRUCT LANDSCAPE CURB PER CITY OF ALBANY CURB RAMP DETAILS.
- NEW PEDESTRIAN PUSH BUTTON POLE. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS.
- REPLACE STRIPING LEGEND
- NEW CROSSWALK LEGEND STRIPING. REMOVE EXISTING CROSSWALK AND ROAD STRIPING FOR RELOCATED CROSSWALK.
- HIGH POINT
- CONTRACTOR TO ADJUST SAWCUT LOCATION AND PROTECT EXISTING LOOP DETECTION EQUIPMENT. COORDINATE WITH CITY INSPECTOR AS NECESSARY.
- NEW SHARED USE STRIPING. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS

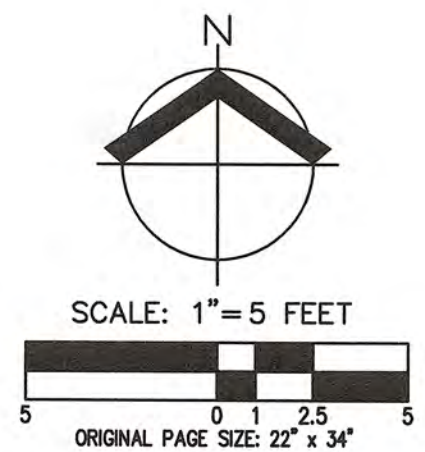
NOTES

- SIDEWALK CROSS SLOPE DESIGNED TO 1.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED CROSS-SLOPE SHALL NOT EXCEED 2%.
- RAMP RUNNING SLOPE DESIGNED TO 7.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED RUNNING SLOPE SHALL NOT EXCEED 8.33% UNLESS RAMP EXTENDS TO MAXIMUM 15-FT LENGTH.
- REMOVE EXISTING SIDEWALK TO NEXT FURTHEST PANEL JOINT AT MATCH POINTS IF DESIGNATED MATCH POINT NOT LOCATED AT EXISTING PANEL JOINT.
- VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS.
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- CONTRACTOR TO RESTORE/REPLACE ALL LANDSCAPING IN KIND TO EQUAL OR BETTER CONDITION.

LEGEND

- TC TOP OF CURB
- FL GUTTER FLOWLINE
- EG EXISTING GRADE
- SW SIDEWALK
- XXX DOWNWARD SLOPE
- ← CURB RAMP
- LANDING
- CROSS SLOPE TRANSITION PANEL
- DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ASPHALT PATCH
- PEDESTRIAN POLE AND BASE
- PUSH BUTTON

CR-06



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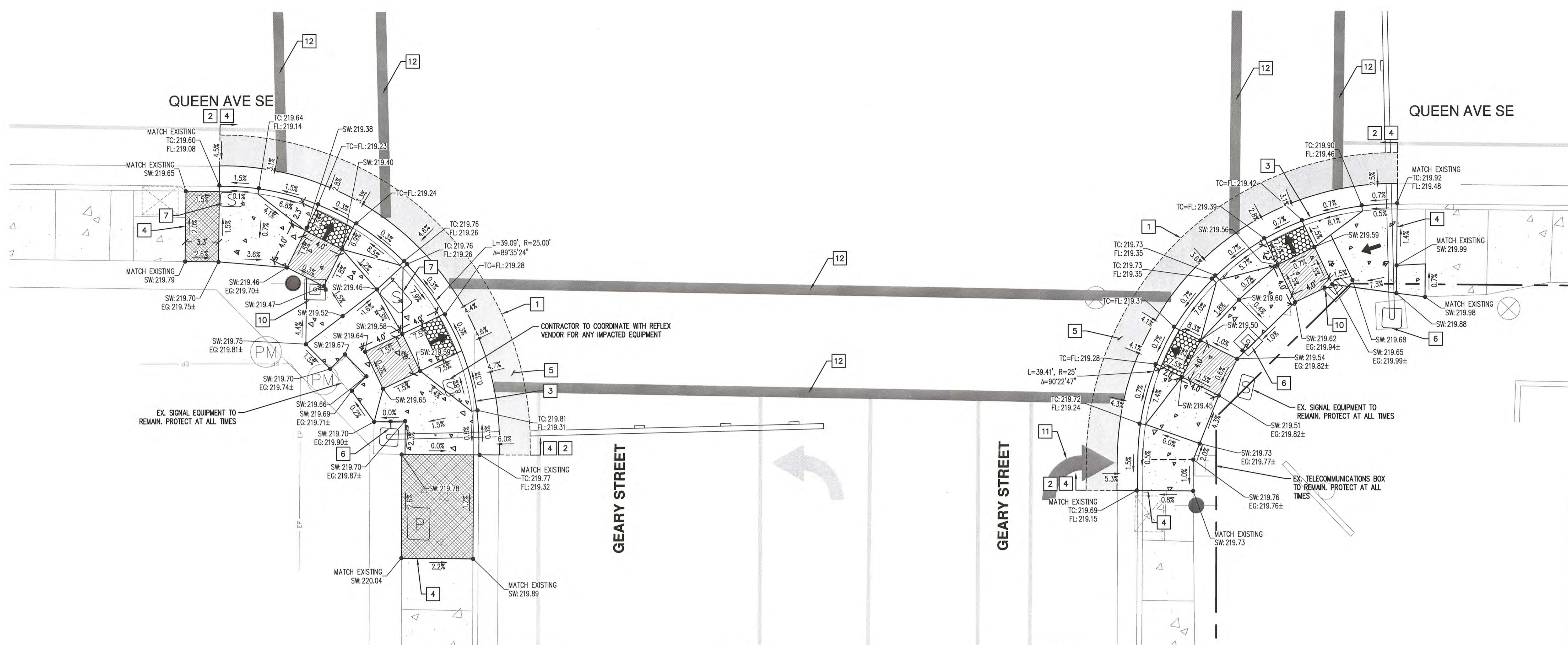
ALBANY A.R.T.S. UPGRADES
CURB RETURN

Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GHB
Checked By: RCW
Date: 1/27/22



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CR-07

CR-08

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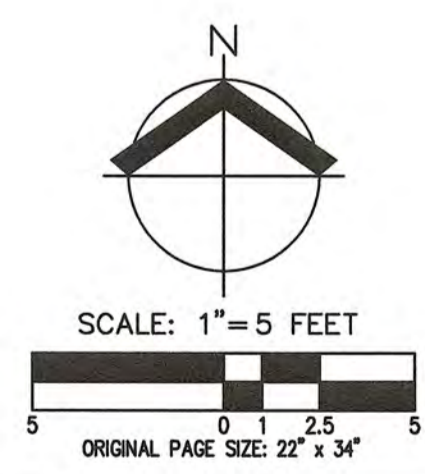
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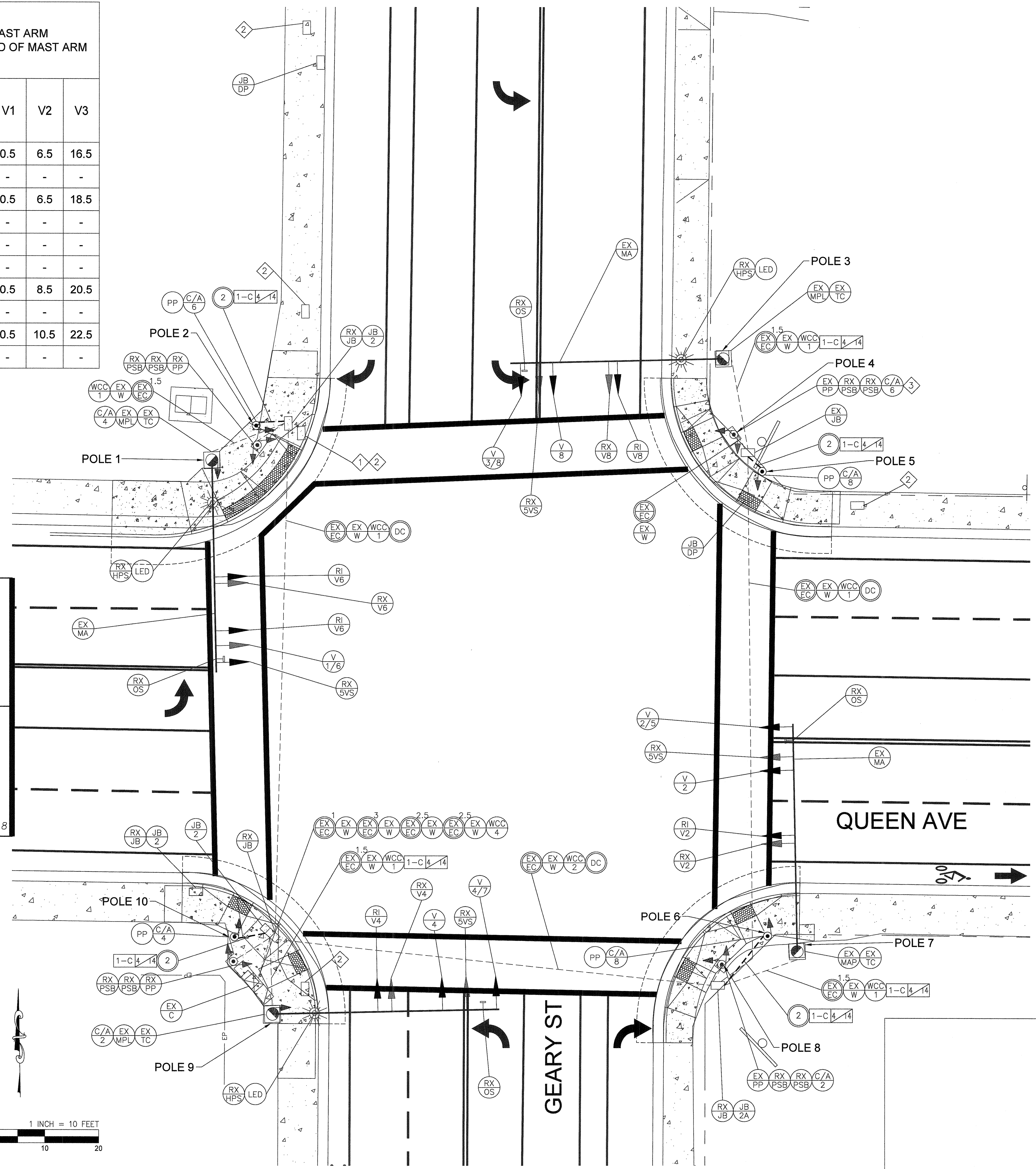
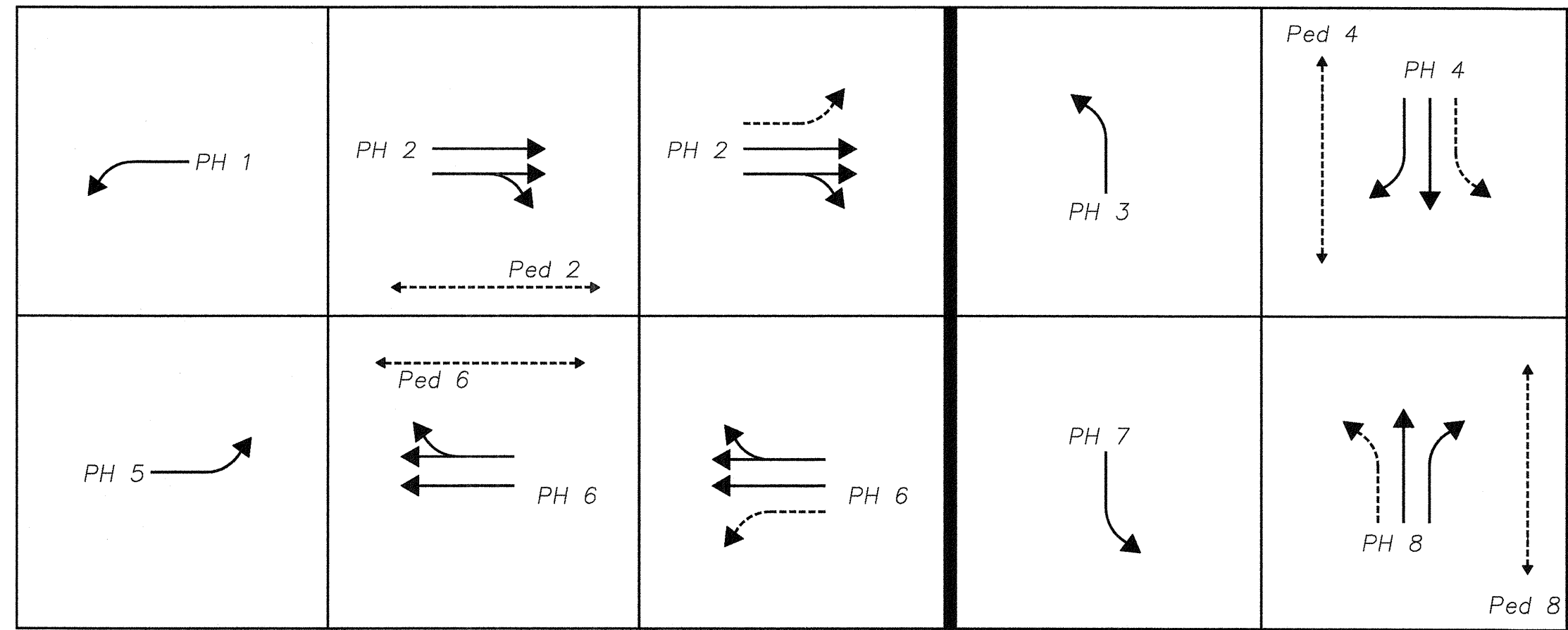
ALBANY A.R.T.S. UPGRADES
CURB RETURN

Job No. AKS JOB #8232
 Designed By: RCW
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POLE ENTRANCE CHART

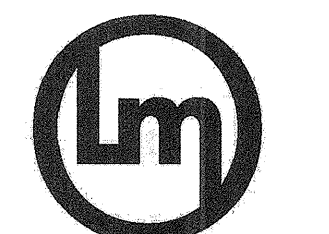
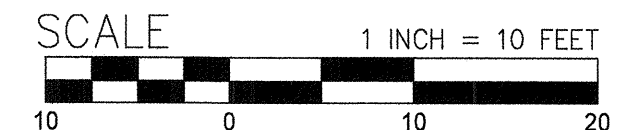
SEE TM457 THRU TM650		EQUIPMENT ON POLE		ORIENTATION ANGLE			EQUIPMENT ON MAST ARM DISTANCE FROM THE END OF MAST ARM				
POLE NO.	TYPE	MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	MAP	EX	-	EX	270	270	40	-	0.5	6.5	16.5
2	PP	-	-	-	0	180	-	-	-	-	-
3	MPL	EX	EX	EX	-	-	40	-	0.5	6.5	18.5
4	PP	-	-	-	0	90	-	-	-	-	-
5	PP	-	-	-	0	180	-	-	-	-	-
6	PP	-	-	-	270	270	-	-	-	-	-
7	MAP	EX	-	EX	-	-	40	-	0.5	8.5	20.5
8	PP	-	-	-	180	180	-	-	-	-	-
9	MAP	EX	EX	EX	270	270	40	-	0.5	10.5	22.5
10	PP	-	-	-	0	0	-	-	-	-	-

NORMAL PHASE ROTATION DIAGRAM



CONSTRUCTION NOTES

- 1 JUNCTION BOX IS USED FOR RED LIGHT CAMERA. COORDINATION TO RELOCATE THE JUNCTION BOX SHALL BE DONE PRIOR TO CONSTRUCTION.
- 2 CONTACT RED LIGHT CAMERA VENDOR, REDFLEX, FOR IMPACT TO EQUIPMENT. CHRIS RENZI (915) 727-1990
- 3 PUSHBUTTON SIGN EXTENDER NEEDED WITH SIDE-MOUNTED BUTTONS



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EXPIRES 12/31/2022

REVISIONS

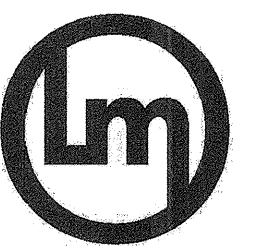
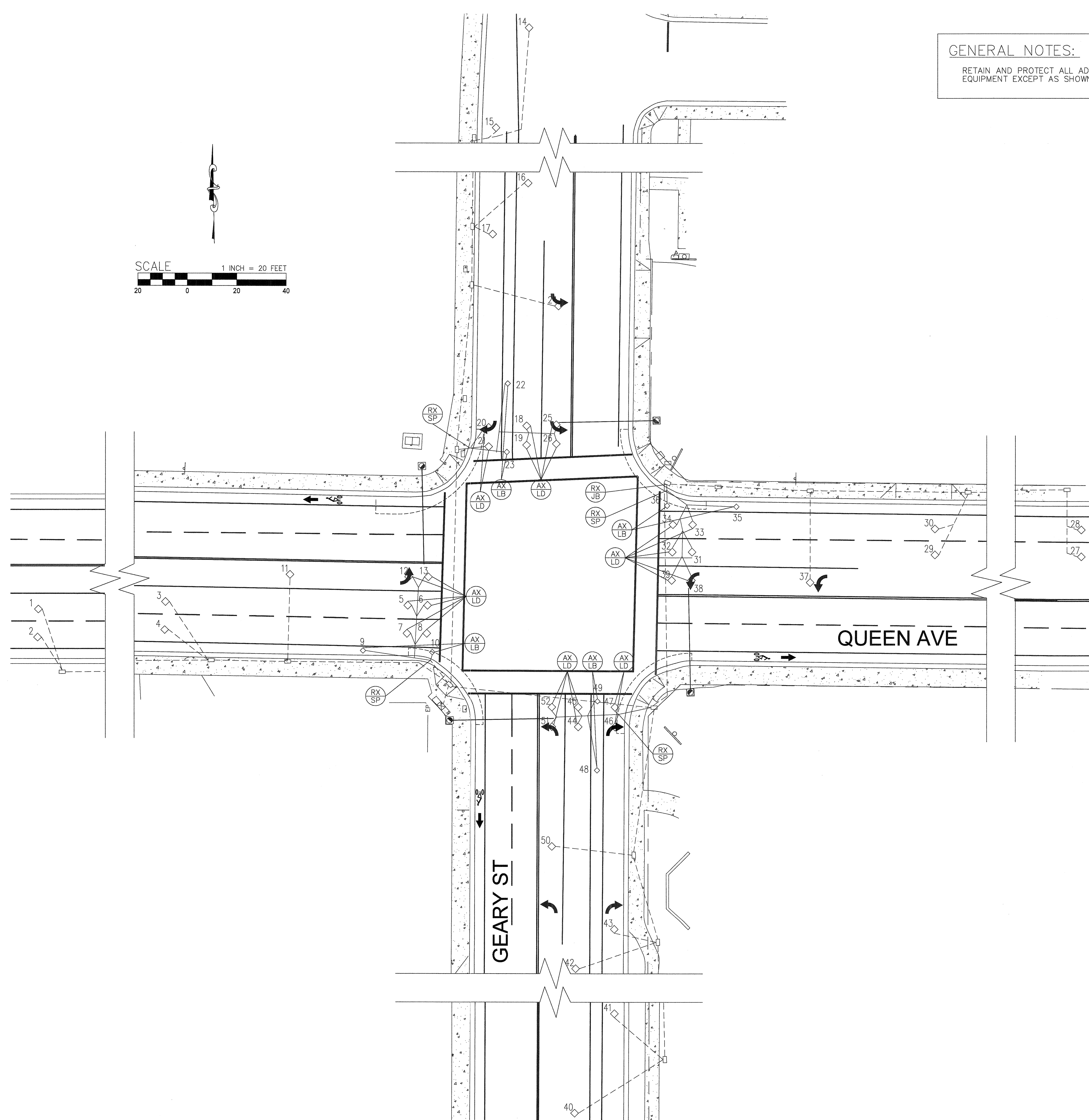
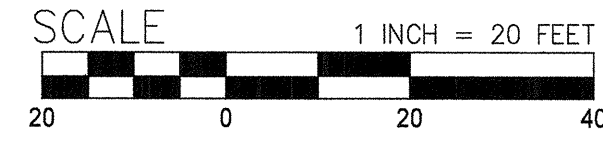
Rev:	Des:	By:

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: 1/28/22

GENERAL NOTES:

RETAIN AND PROTECT ALL ADVANCE LOOPS AND DETECTION EQUIPMENT EXCEPT AS SHOWN HERE FOR REMOVAL



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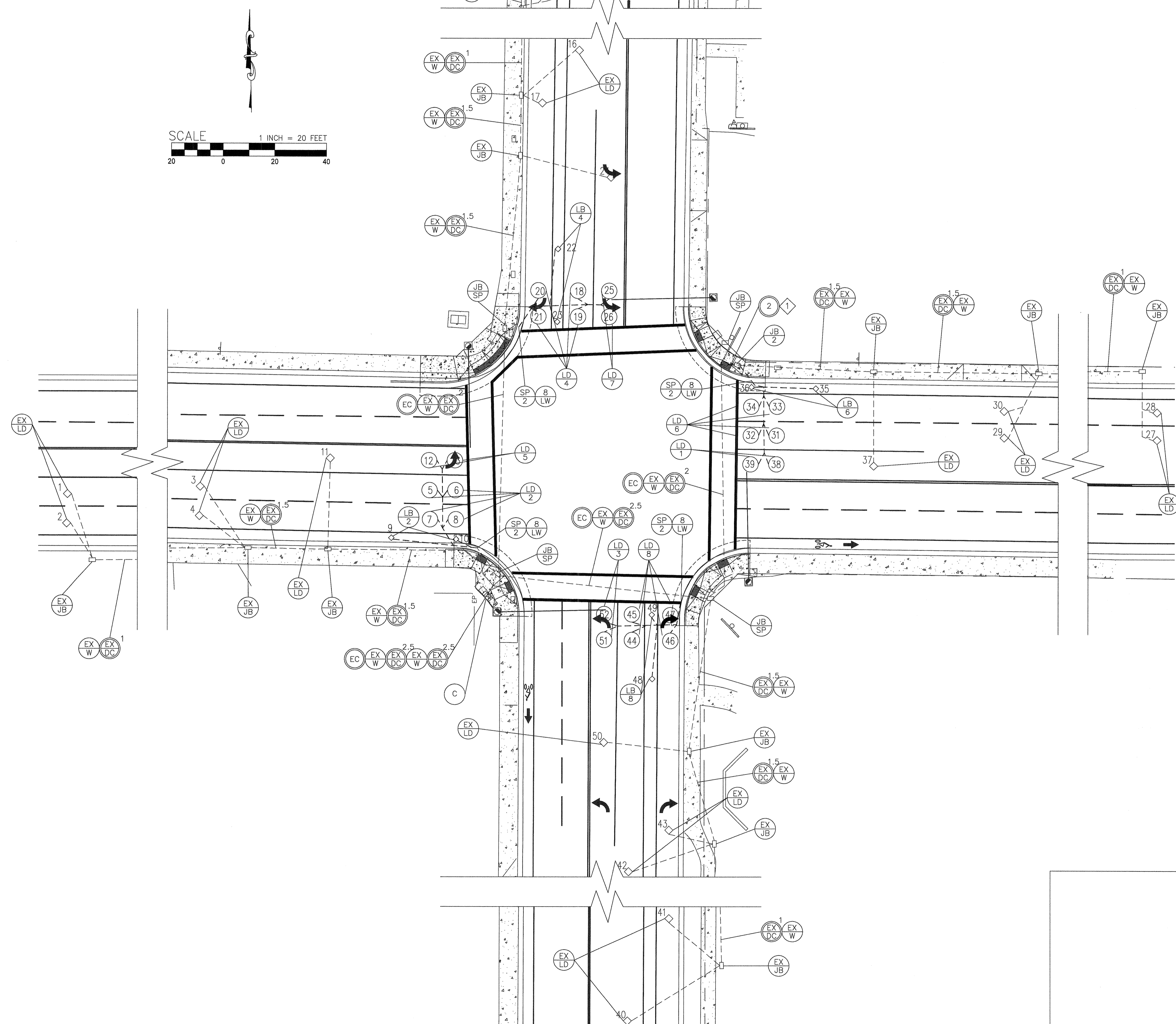
**ALBANY A.R.T.S. UPGRADES
QUEEN AVE AT GEARY ST**
Detection Removal Plan
Albany, Oregon

Job No. 20100
Designed By: JLH
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Checked By: TEM
Date: 1/28/22

T6

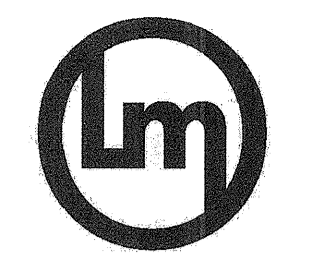
LOOP/RADAR WIRING DIAGRAM

LOOP #	DISTANCE (FEET)	PHASE	FUNCTION	SLOT
1	215	2	E, C, CO	I2U
2	215	2	E, C, CO	I2L
3	105	2	E, C, CO	I2L
4	105	2	E, C, CO	I2L
5	15			
6	5			
7	15	2	E, C	I3U
8	5			
9	25	2	E, C, CO	I3L
10	5			
11	71	5	E, C, CO	J1U
12	15	5	E, C	J9U
13	5			
14	217	4	E, C, CO	I6U
15	177	4	E, C, CO	I6L
16	107	4	E, C, CO	I6L
17	87	4	E, C, CO	I6L
18	15			
19	5	4	E, C	I7U
20	15			
21	5			
22	25	4	E, C, CO	I7L
23	5	4	E, C, CO	J5U
24	73	7	E, C, CO	J5U
25	15	7	E, C	J9L
26	5			
27	215	6	E, C, CO	J2U
28	215	6	E, C, CO	J2L
29	105	6	E, C, CO	J2L
30	105	6	E, C, CO	J2L
31	15			
32	5	6	E, C	J3U
33	15			
34	5			
35	25	6	E, C, CO	J3L
36	5			
37	71	1	E, C, CO	I1U
38	15	1	E, C	I9U
39	5			
40	216	8	E, C, CO	J6U
41	176	8	E, C, CO	J6L
42	106	8	E, C, CO	J6L
43	86	8	E, C, CO	J6L
44	15			
45	5	8	E, C	J7U
46	15			
47	5			
48	25	8	E, C, CO	J7L
49	5			
50	72	3	E, C	I5U
51	15	3	E, C, CO	I9L
52	5			



CONSTRUCTION NOTES

◊ INTERCEPT AND SPLICE INTO EXISTING CONDUIT



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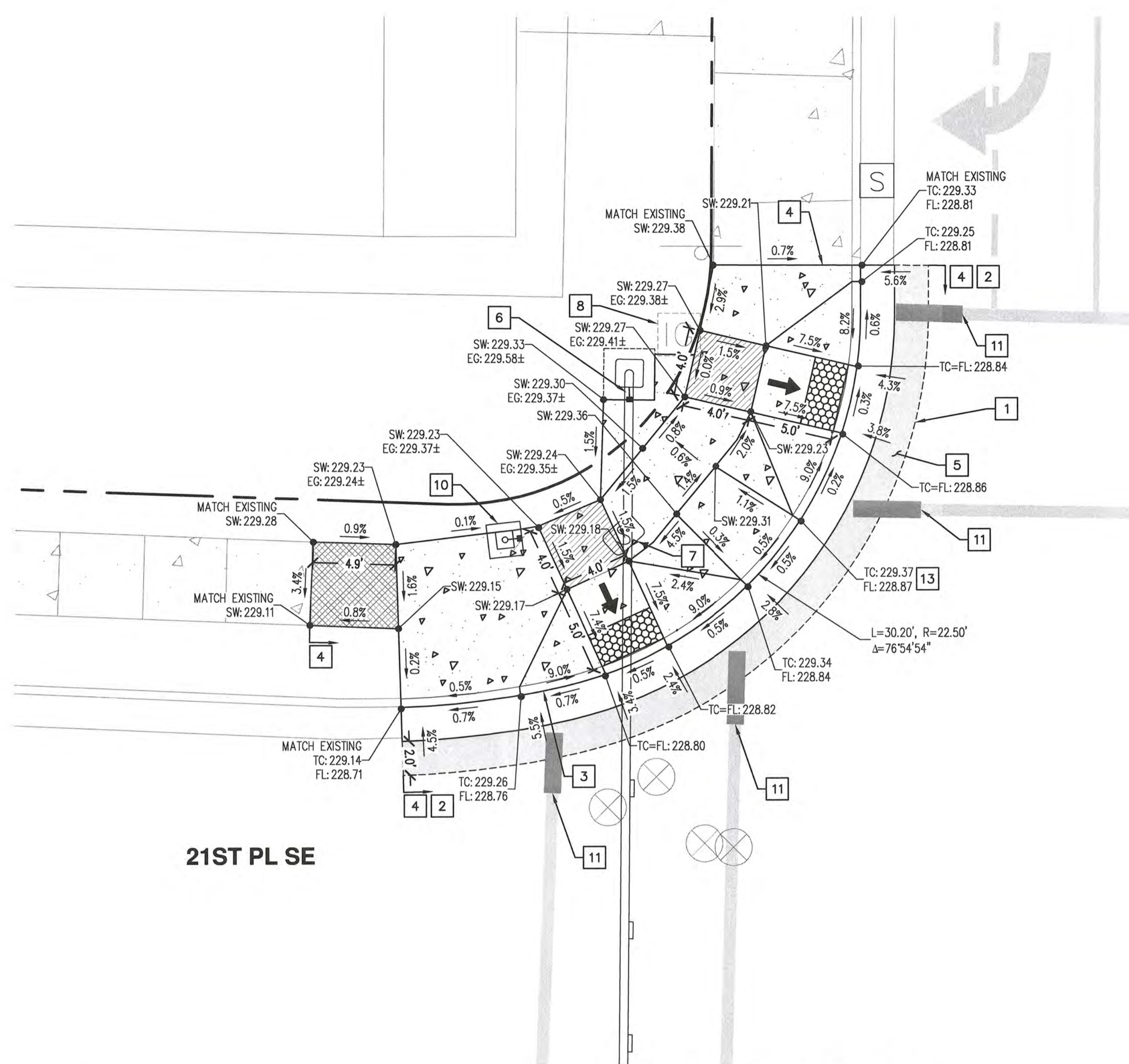
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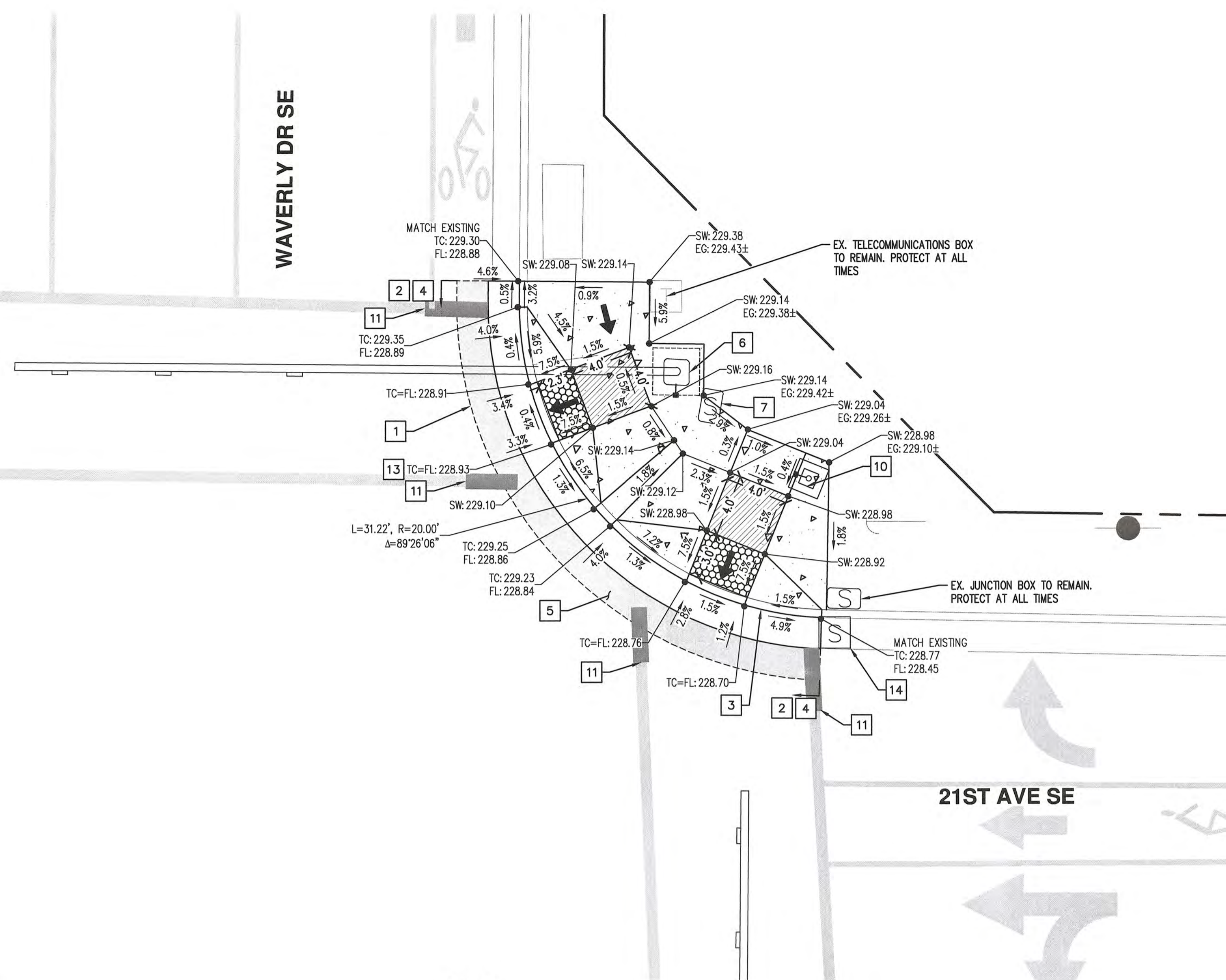
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WAVERLY DR SE

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21ST AVE SE

CR-10

CR-09

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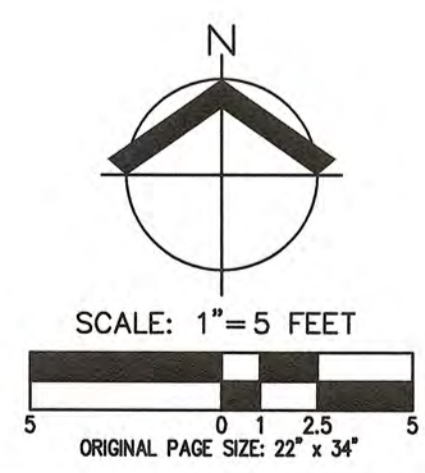
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- CONTRACTOR TO RESTORE/REPLACE ALL LANDSCAPING IN KIND TO EQUAL OR BETTER CONDITION.

LEGEND

- TC TOP OF CURB
- FL GUTTER FLOWLINE
- EG EXISTING GRADE
- SW SIDEWALK
- X.XX DOWNWARD SLOPE
- CURB RAMP
- LANDING
- CROSS SLOPE TRANSITION PANEL
- DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ASPHALT PATCH
- PEDESTRIAN POLE AND BASE
- PUSH BUTTON



REVISIONS

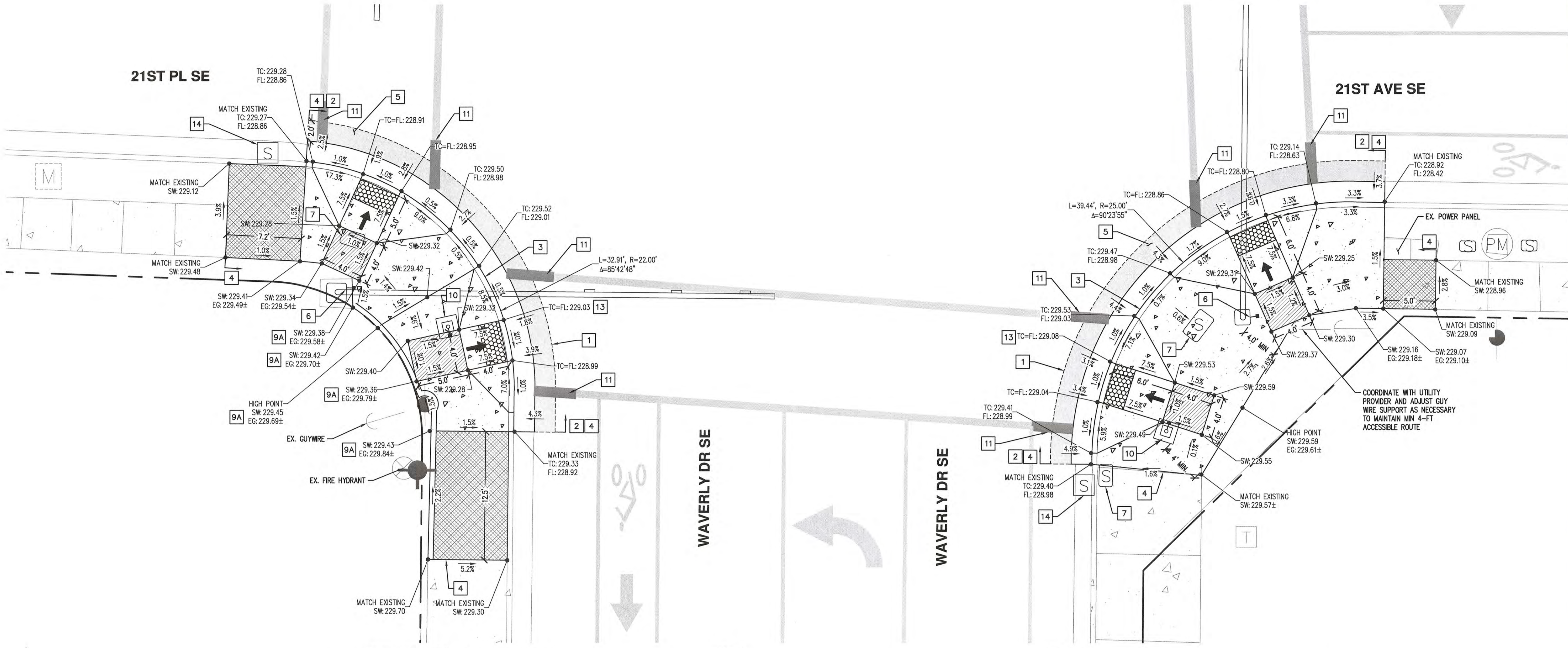
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Rev:	By:
Des:	By:

ALBANY A.R.T.S. UPGRADES
CURB RETURN

Job No. AKS JOB #8232
 Designed By: RCW
 Drawn By: GHB
 Checked By: RCW
 Date: 1/27/22



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CR-11

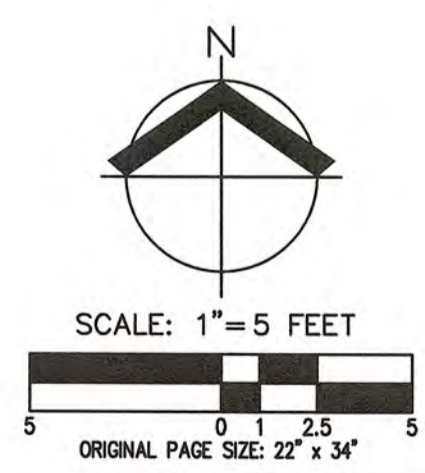
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CR-12



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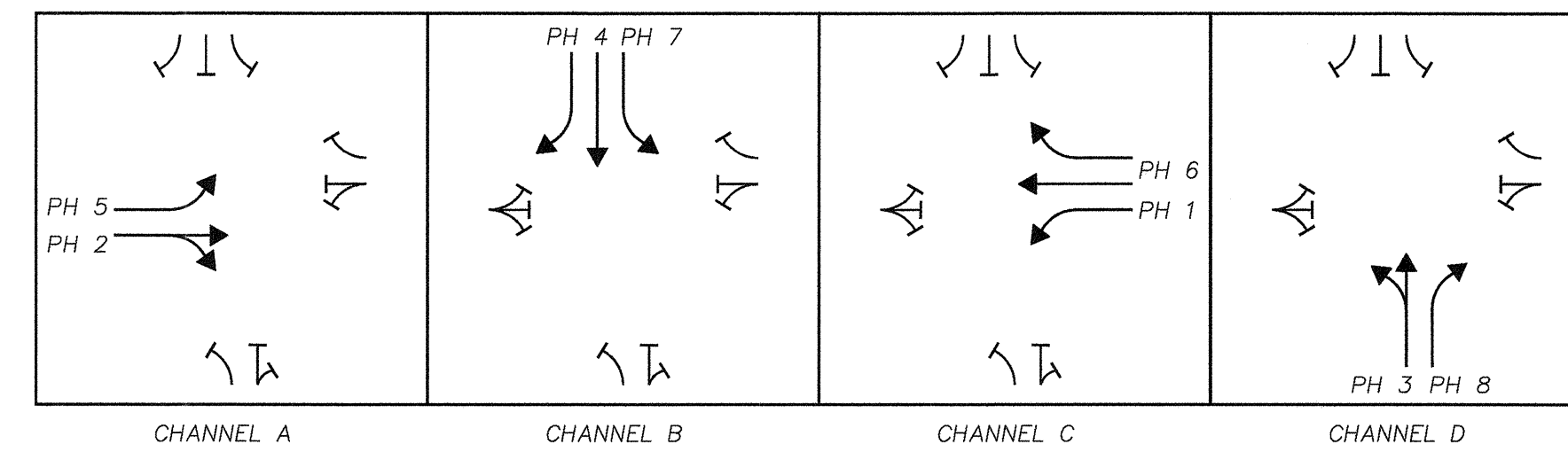
**ALBANY A.R.T.S. UPGRADES
CURB RETURN**

Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GHB
Checked By: RCW
Date: 1/27/22

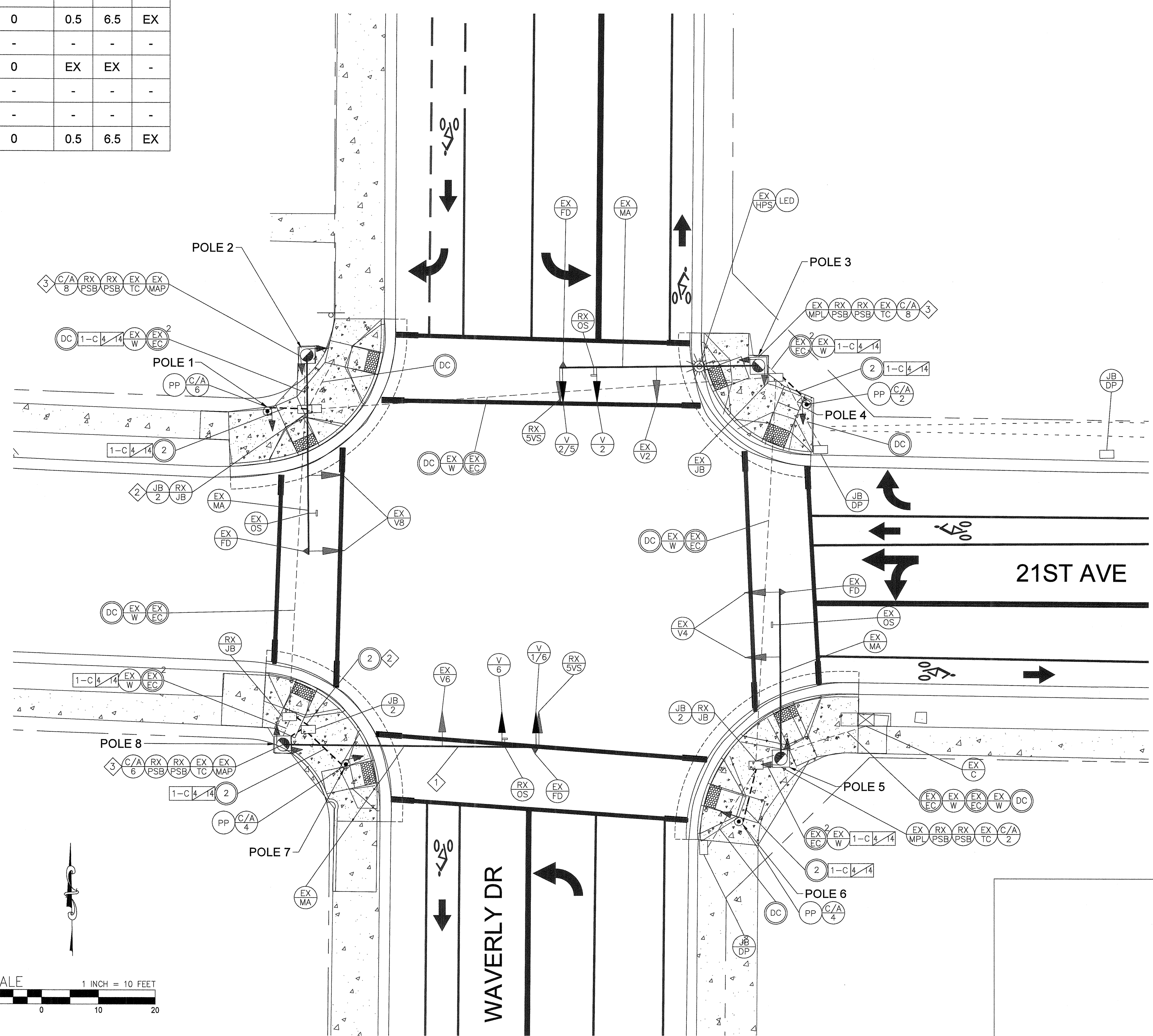
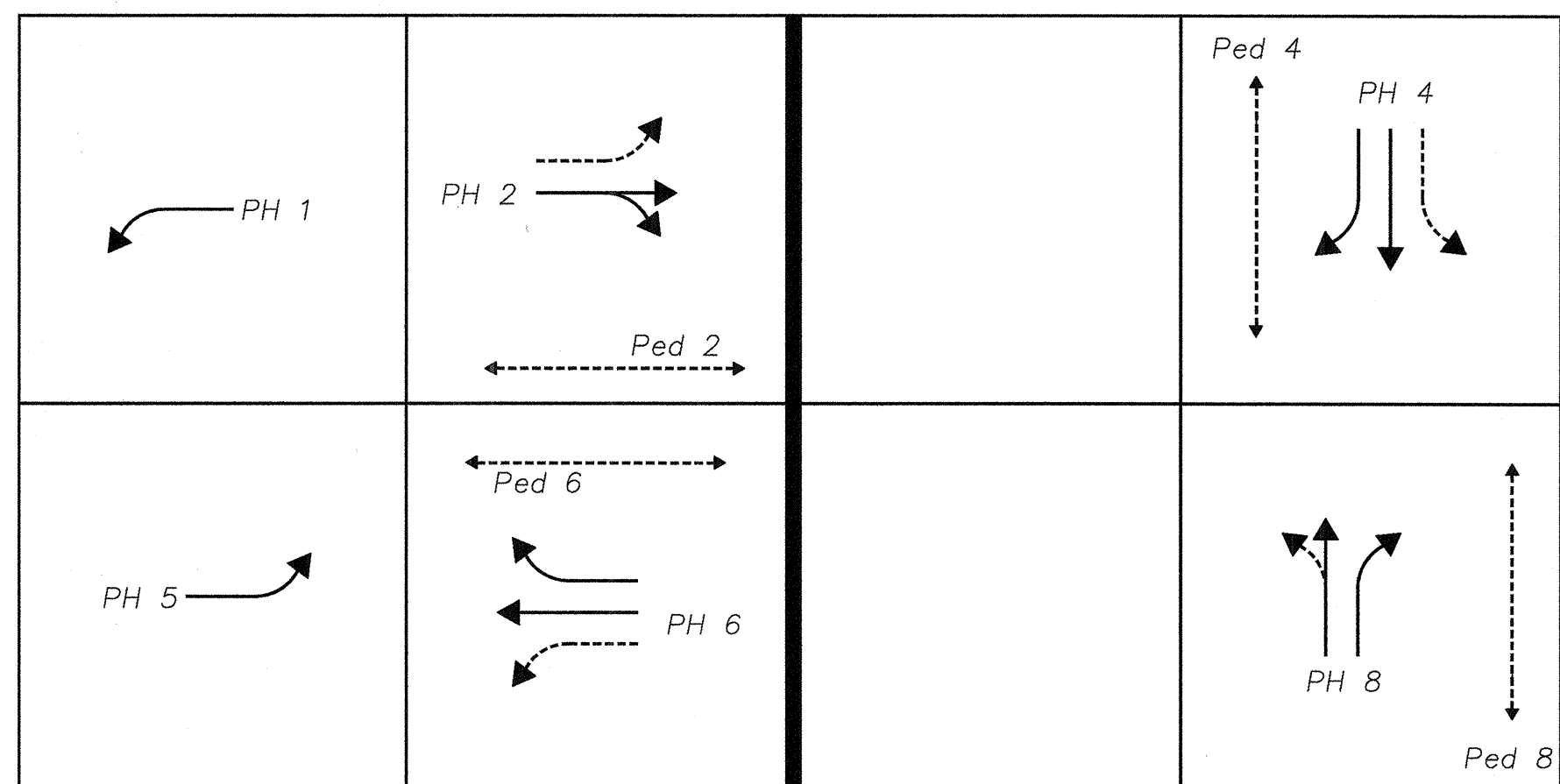
POLE ENTRANCE CHART

SEE TM457 THRU TM650		EQUIPMENT ON POLE				EQUIPMENT ON MAST ARM					
POLE NO.	TYPE	MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	PP	-	-	-	270	270	-	-	-	-	-
2	MAP	EX	-	EX	0	180	35	0	EX	EX	-
3	MPL	EX	EX	EX	0	90	35	0	0.5	6.5	EX
4	PP	-	-	-	0	0	-	-	-	-	-
5	MAP	EX	-	EX	90	90	30	0	EX	EX	-
6	PP	-	-	-	0	0	-	-	-	-	-
7	PP	-	-	-	270	90	-	-	-	-	-
8	MAP	EX	-	EX	0	180	45	0	0.5	6.5	EX

FIRE PREEMPTION DIAGRAM

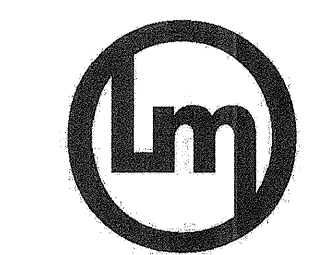
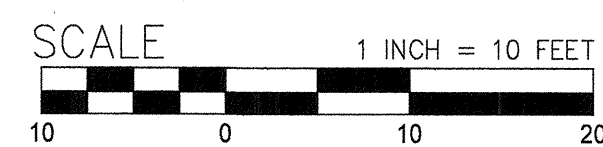


NORMAL PHASE ROTATION DIAGRAM



CONSTRUCTION NOTES

- 1 RETAIN AND PROTECT EXISTING BLANK SIGN ON TOP OF MAST ARM WHICH REDUCES WIND VIBRATION
- 2 INTERCEPT AND SPLICE INTO EXISTING CONDUIT
- 3 PUSHBUTTON SIGN EXTENDERS NEEDED WITH SIDE-MOUNTED BUTTONS



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REVISIONS

Rev:	By:	Des:

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

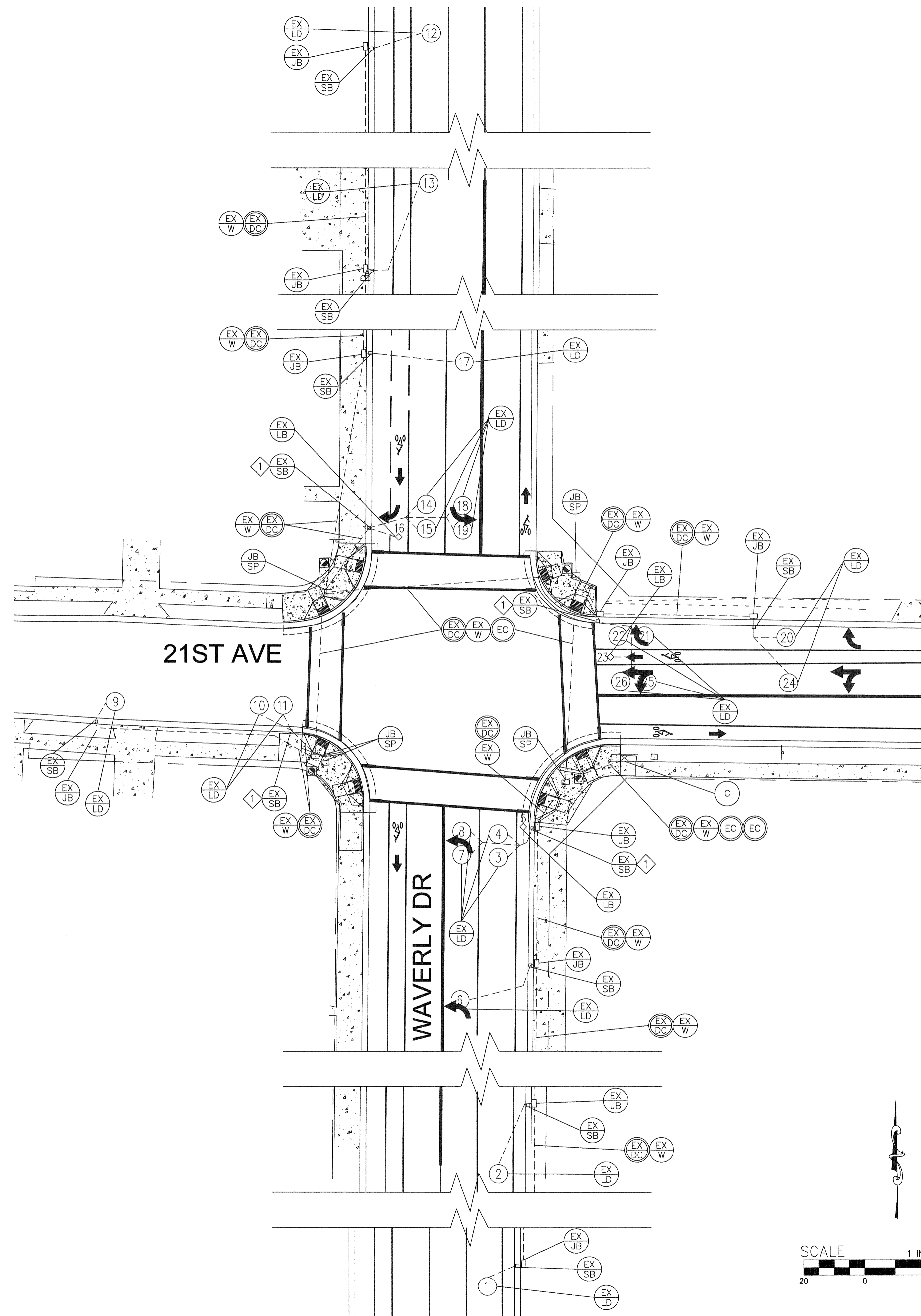
Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

T9

LOOP/RADAR WIRING DIAGRAM

LOOP #	DISTANCE (FEET)	PHASE	FUNCTION	SLOT
1	320	2	E, C, CO	I2U
2	160	2	E, C, CO	I2L
3	16		E, C	I3L
4	5		E, C	I3U
5	4	2	E, C	I3U
6	76	5	E, C, CO	J1U
7	16		E, C	J9U
8	5		E, C	J9U
9	76	4	E, C, CO	I6U
10	16		E, C	I6L
11	5		E, C	I6L
12	320	6	E, C, CO	J2U
13	160	6	E, C, CO	J2L
14	16		E, C	J3L
15	5		E, C	J3L
16	4	6	E, C, CO	J3U
17	76	1	E, C, CO	I1U
18	16		E, C	I9U
19	5		E, C	I9U
20	76	8	E, C, CO, D	J6U
21	16		E, C, D	J7L
22	5		E, C, D	J7L
23	4	8	E, C, CO	J7U
24	76	8	E, C, CO	J6L
25	16		E, C	J8U
26	5		E, C	J8U

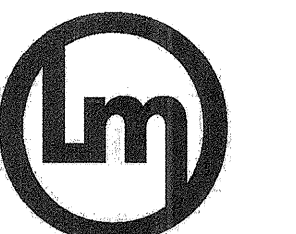
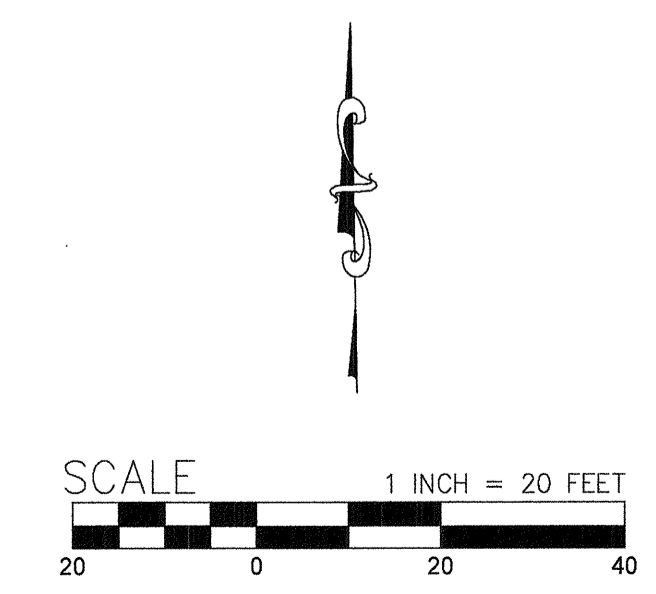
NO WORK



CONSTRUCTION NOTES

- 1 CONTRACTOR TO PROTECT EXISTING STREET BOX AND ADJUST SAWCUT AS NECESSARY. COORDINATE WITH CITY INSPECTOR AS NECESSARY.

GENERAL NOTES:
 DETECTION NOT IMPACTED BY SIGNAL AND INTERSECTION MODIFICATIONS



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REVISIONS

Rev:	By:

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

Job No. 20100
 Designed By: JLH
 Drawn By: JLH
 Checked By: TEM
 Date: 1/28/22

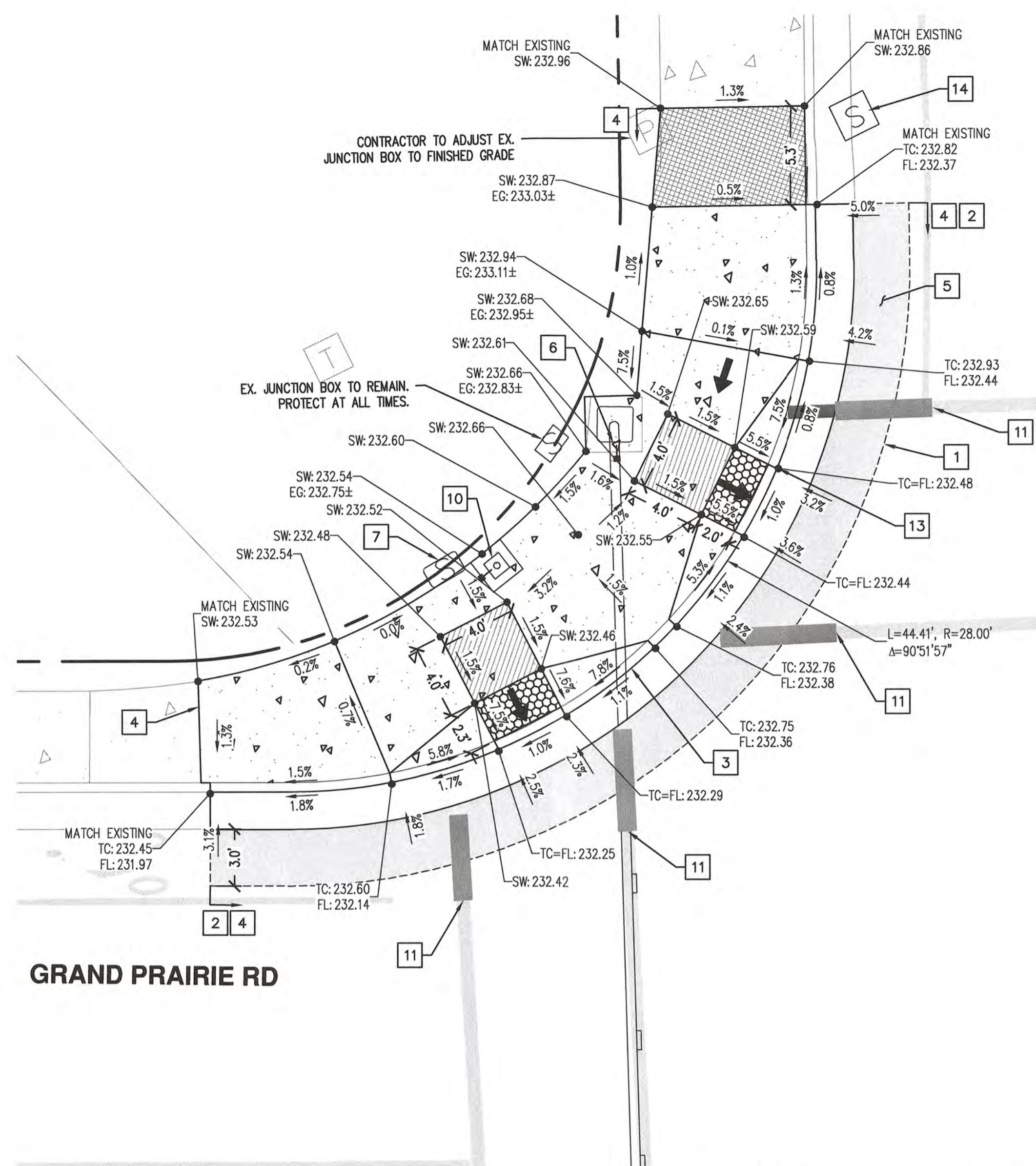


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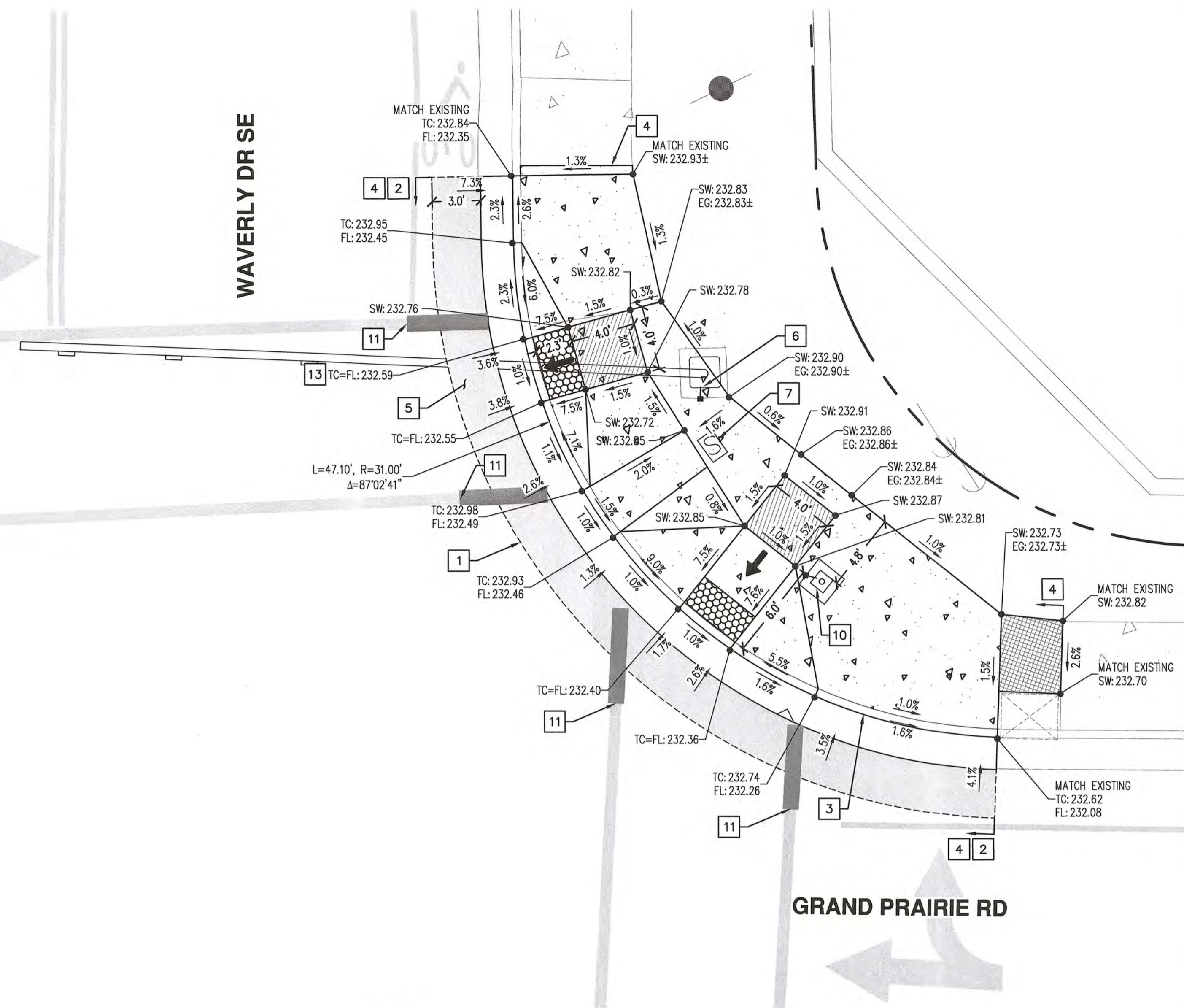
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WAVERLY DR SE

GRAND PRAIRIE RD

CR-13



WAVERLY DR SE

GRAND PRAIRIE RD

CR-14

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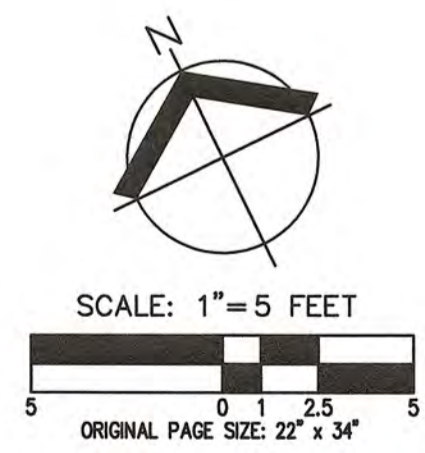
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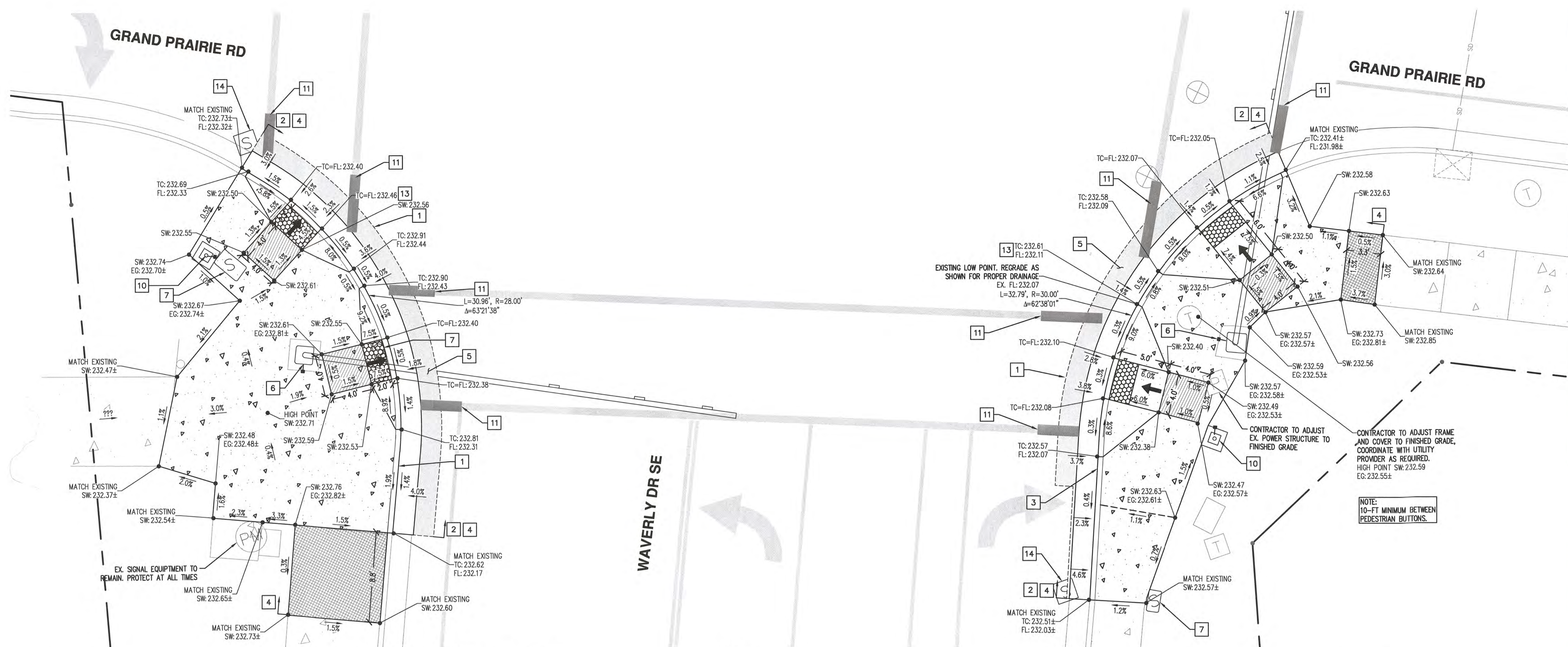


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REVISIONS	
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CR-15

CR-16

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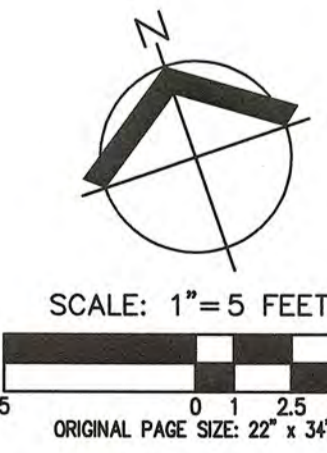
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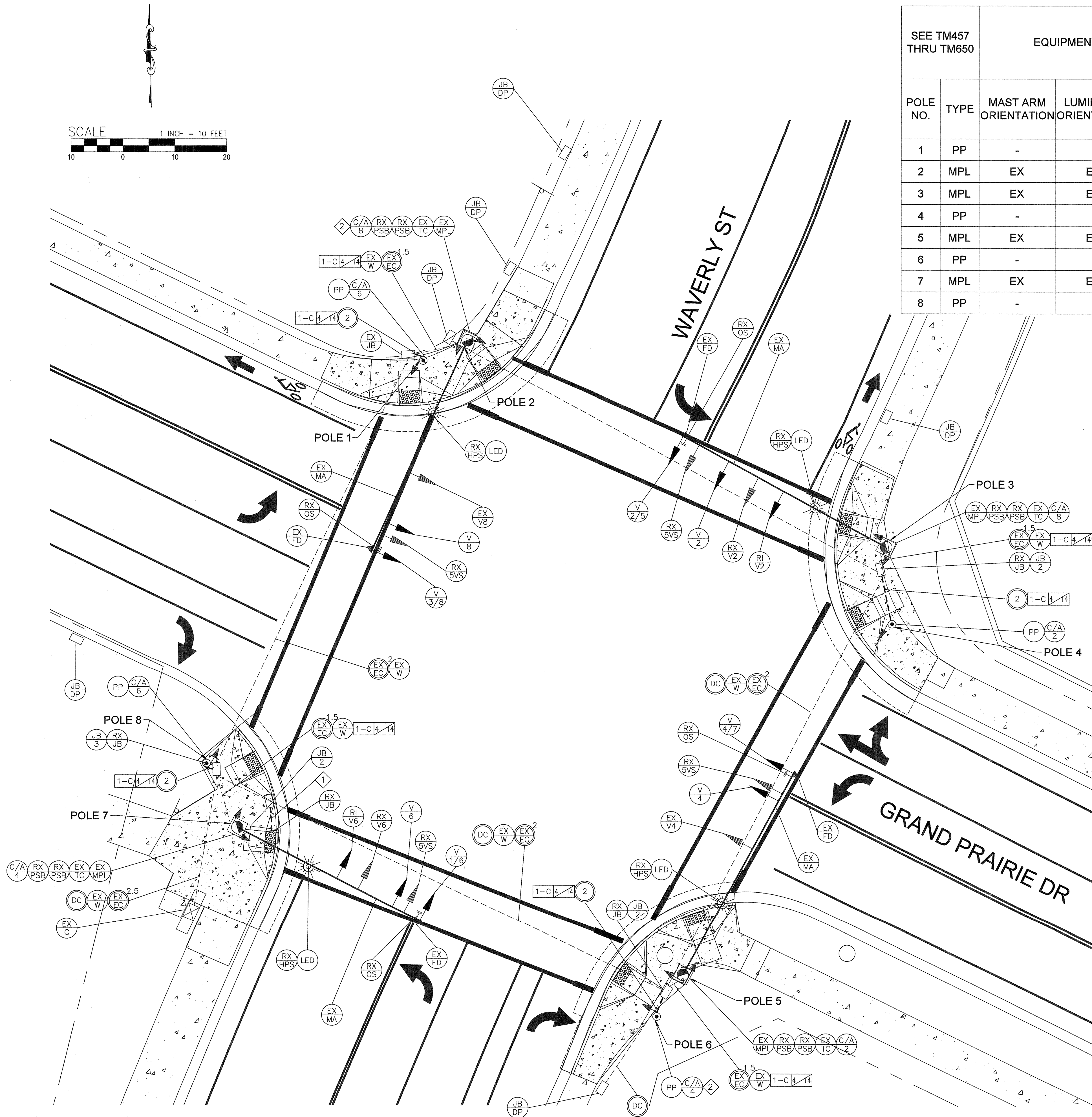
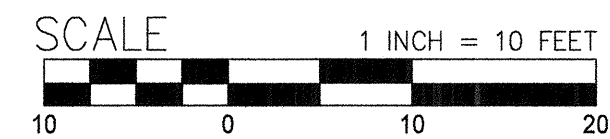
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ALBANY A.R.T.S. UPGRADES
CURB RETURN

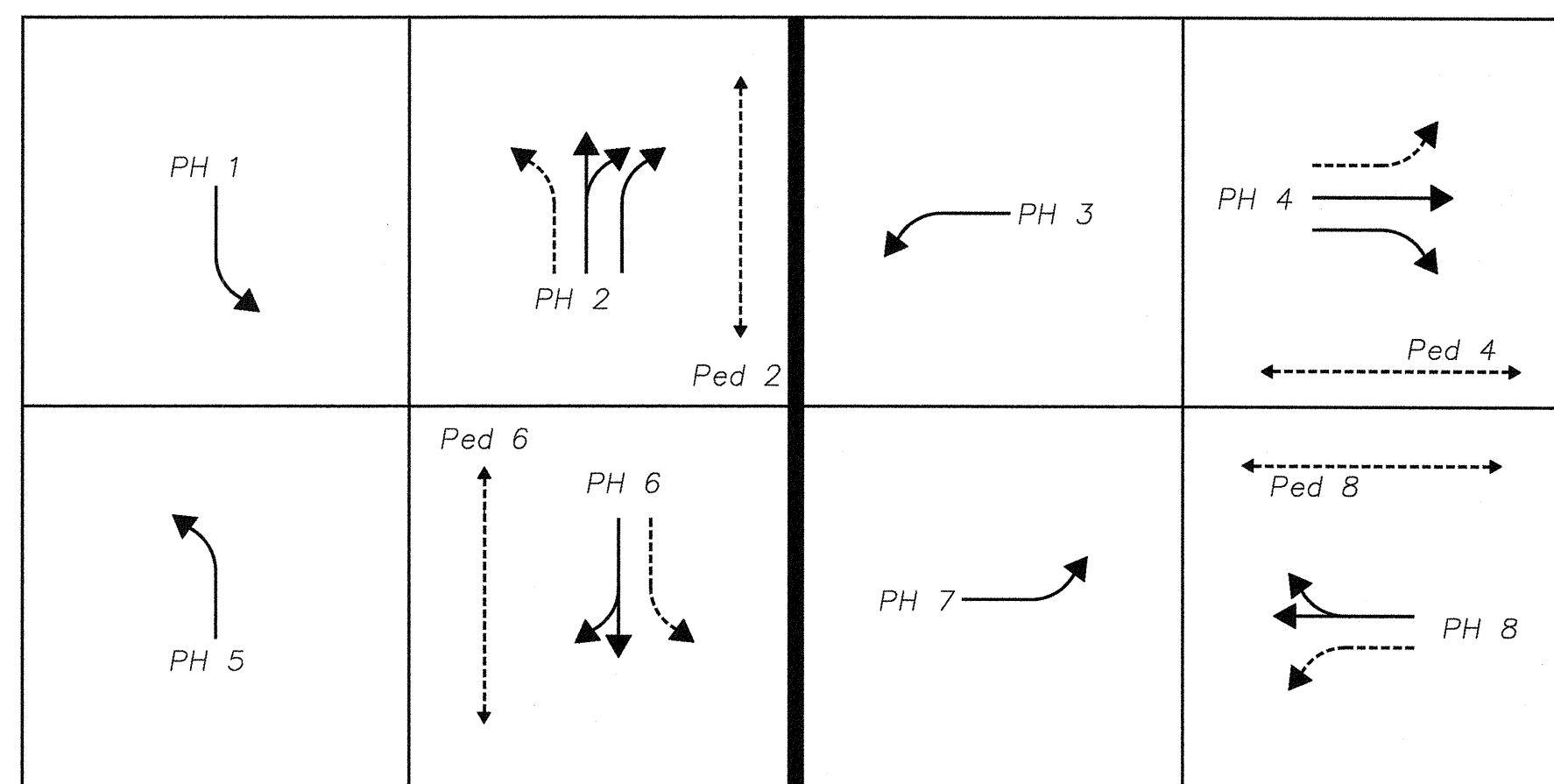
Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GHB
Checked By: RCW
Date: 1/27/22

POLE ENTRANCE CHART

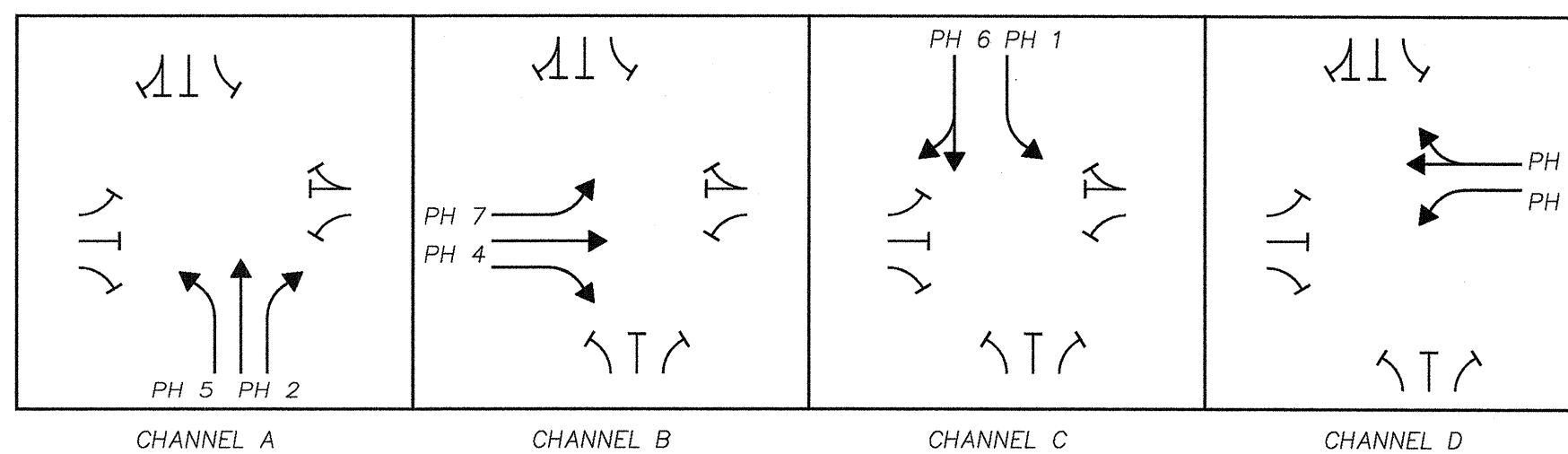
SEE TM457 THRU TM650		EQUIPMENT ON POLE		ORIENTATION ANGLE			EQUIPMENT ON MAST ARM DISTANCE FROM THE END OF MAST ARM				
POLE NO.	TYPE	MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	PP	-	-	-	90	270	-	-	-	-	-
2	MPL	EX	EX	EX	0	180	45	0	0.5	6.5	EX
3	MPL	EX	EX	EX	270	90	45	0	0.5	10.5	22.5
4	PP	-	-	-	0	0	-	-	-	-	-
5	MPL	EX	EX	EX	270	270	45	0	0.5	6.5	EX
6	PP	-	-	-	0	0	-	-	-	-	-
7	MPL	EX	EX	EX	90	90	40	0	0.5	6.5	18.5
8	PP	-	-	-	0	0	-	-	-	-	-



NORMAL PHASE ROTATION DIAGRAM

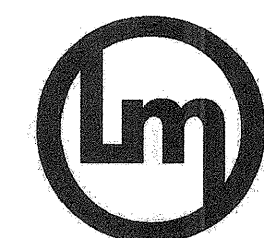


FIRE PREEMPTION DIAGRAM



CONSTRUCTION NOTES

- ① INTERCEPT AND SPLICE ONTO EXISTING CONDUIT
- ② PUSHBUTTON EXTENDERS NEEDED WITH SIDE-MOUNTED BUTTONS



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EXPIRES 12/31/2022

REVISIONS	By:	Des:

**ALBANY A.R.T.S. UPGRADES
WAVERLY DR AT GRAND PRAIRIE DR**
Signal Modification Plan
Albany, Oregon

Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

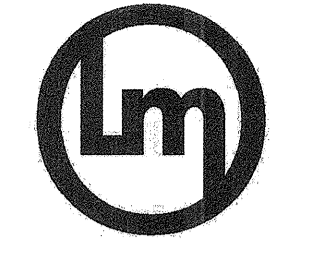
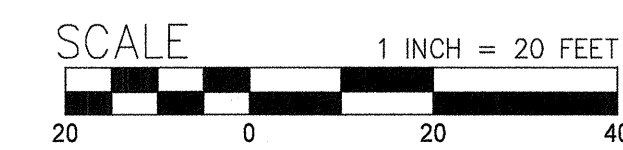
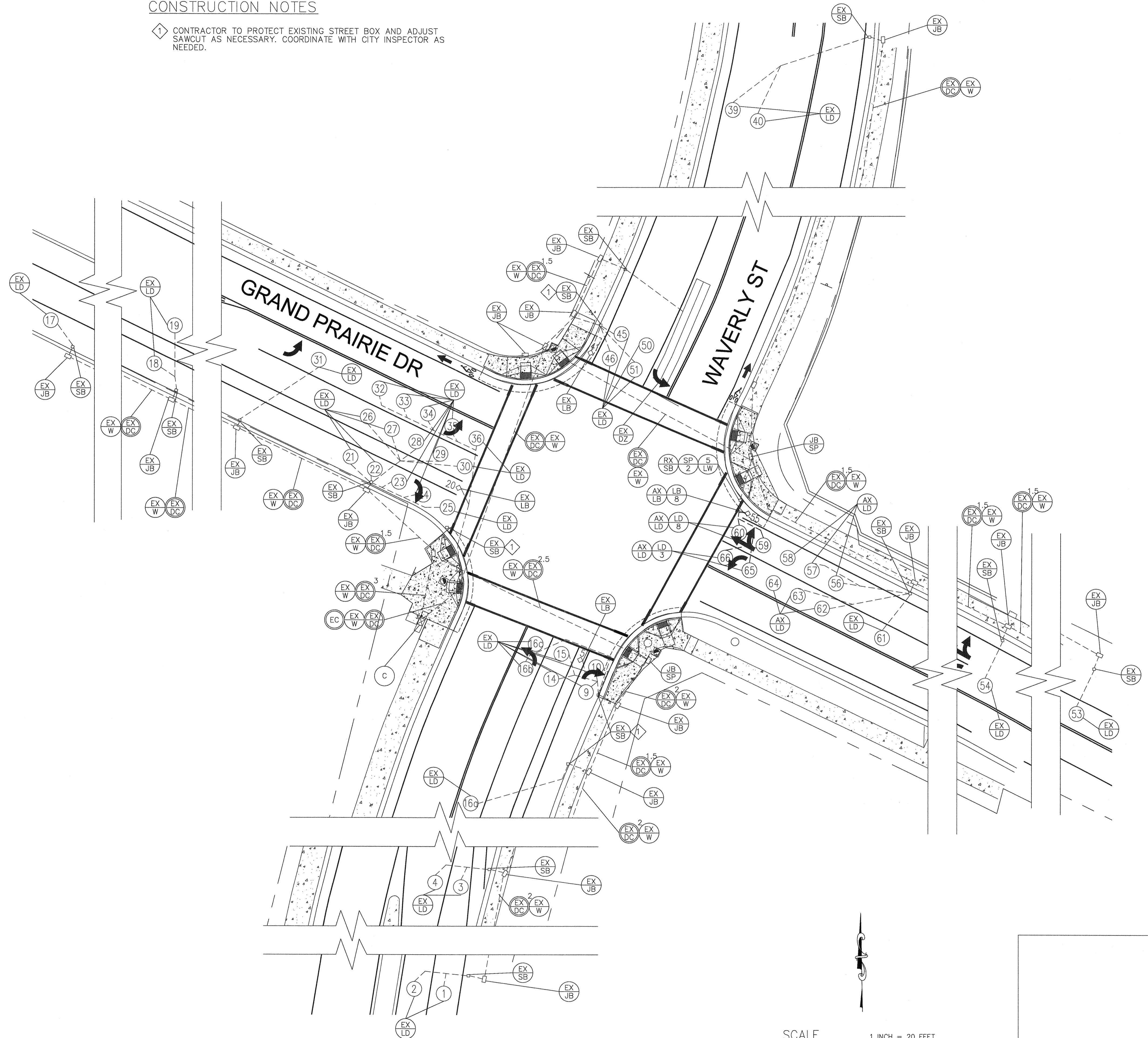
LOOP/RADAR WIRING DIAGRAM

LOOP/ ZONE #	DISTANCE/ DETECTION ZONE LOCATION* (FEET)	PHASE	BIU/ SLOT	ATC MAXTIME #
1	320	2	E, C, CO	12U
2	320			
3	160	2	E, C, CO	12L
4	160			
5	4	2	E, C, CO	13U
6	ABANDONED			
7	ABANDONED			
8	ABANDONED			
9	15	2	E, C, CO	13L
10	5			
11	ABANDONED			
12	ABANDONED			
13	ABANDONED			
14	15	2	E, C, CO	14U
15	5			
16a	75	5	E, C, CO	J1U
16b	15	2	E, C, CO	J9U
16c	5			
17	320	4	E, C, CO	16U
18	160	4	E, C, CO	16L
19	160	4	E, C, CO	17U
20	4			
21	49			
22	38			
23	27	4	E, C	17L
24	16			
25	5			
26	49			
27	38			
28	27	4	E, C	18U
29	16			
30	5			
31	76	7	E, C, CO	J6U
32	49			
33	38			
34	27	7	E, C	J9L
35	16			
36	5			
37	ABANDONED			
38	ABANDONED			
39	160	6	E, C, CO	J2L
40	160			
41	4	6	E, C, CO	J3U
42	ABANDONED			
43	ABANDONED			
44	ABANDONED			
45	16	6	E, C	J3L
46	5			
47	ABANDONED			
48	ABANDONED			
49	ABANDONED			
50	16	6	E, C	J4U
51	5			
52	5-49	1	E, C	19U
53	320	8	E, C, CO	J6U
54	160	8	E, C, CO	J6L
55	4	8	E, C, CO	J7U
56	ABANDONED			
57	ABANDONED			
58	ABANDONED			
59	16	8	E, C	J7L
60	5			
61	76	3	E, C, CO	15U
62	ABANDONED			
63	ABANDONED			
64	ABANDONED			
65	16	3	E, C	19L
66	5			

NO WORK

CONSTRUCTION NOTES

1 CONTRACTOR TO PROTECT EXISTING STREET BOX AND ADJUST SAWCUT AS NECESSARY. COORDINATE WITH CITY INSPECTOR AS NEEDED.



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EXPIRES 12/31/2022

REVISIONS	Rev:	By:

**ALBANY A.R.T.S. UPGRADES
WAVERLY DR AT GRAND PRAIRIE RD**
Detection Modification Plan
Albany, Oregon

Job No. 20100
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T12