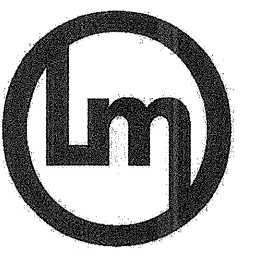


ST-20-03 ARTS TRAFFIC SIGNAL ENHANCEMENT PROJECT

PREPARED FOR:
City of Albany

January 2022



**lancaster
mobley**

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



REVISIONS	Rev:	Des:	By:

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

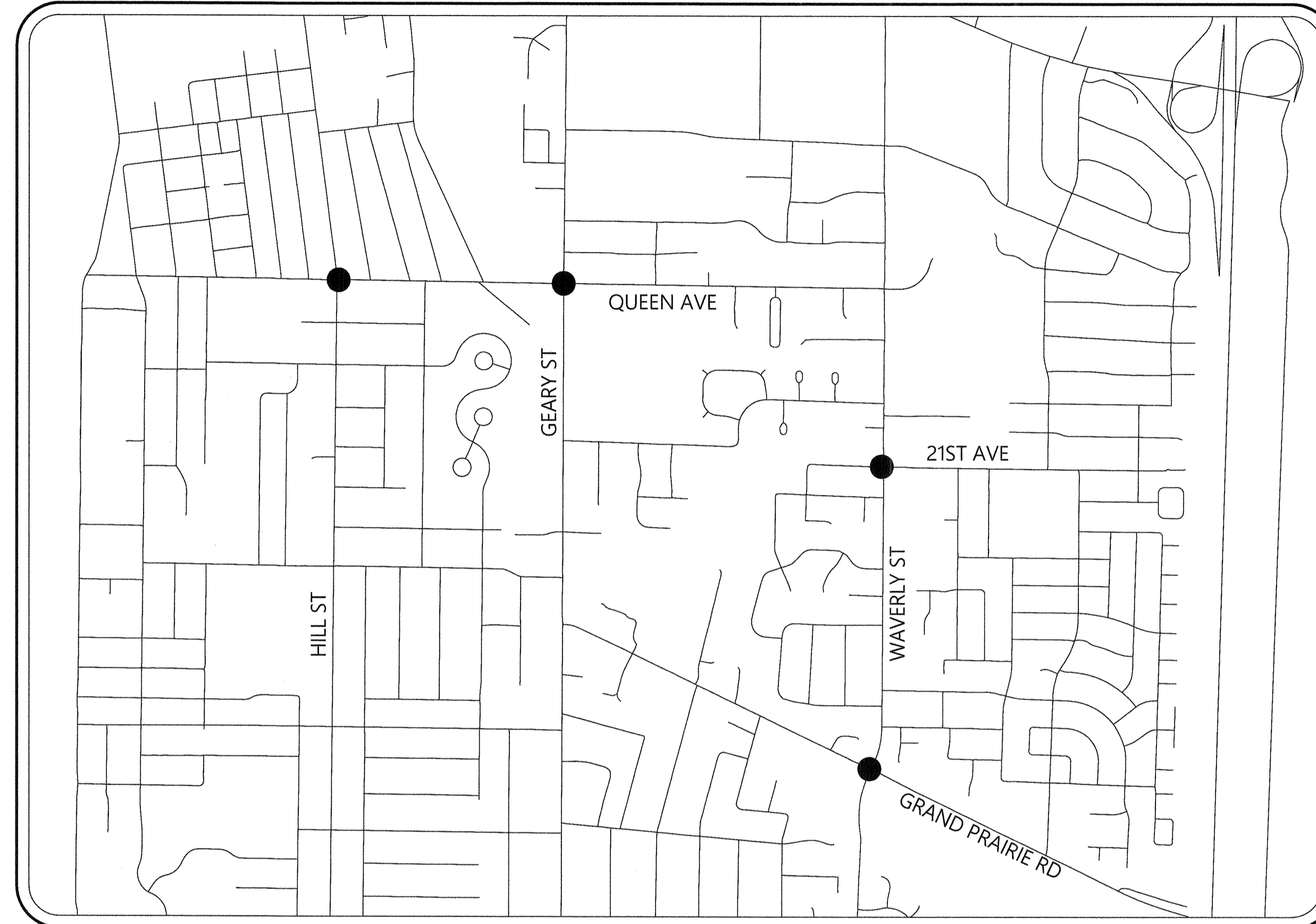
7	C103	CURB RETURN
8	C104	CURB RETURN
9	T5	SIGNAL PLAN
10	T6	DETECTOR REMOVAL PLAN
11	T7	DETECTOR INSTALL PLAN
12	T8	STRIPING PLAN

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
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CIVIL ENGINEER
AKS ENGINEERING & FORESTRY, LLC
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Keizer, Oregon 97303
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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: 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
- RETAIN AND PROTECT EXISTING COUNTDOWN PEDESTRIAN SIGNAL WITH AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON
- 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

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

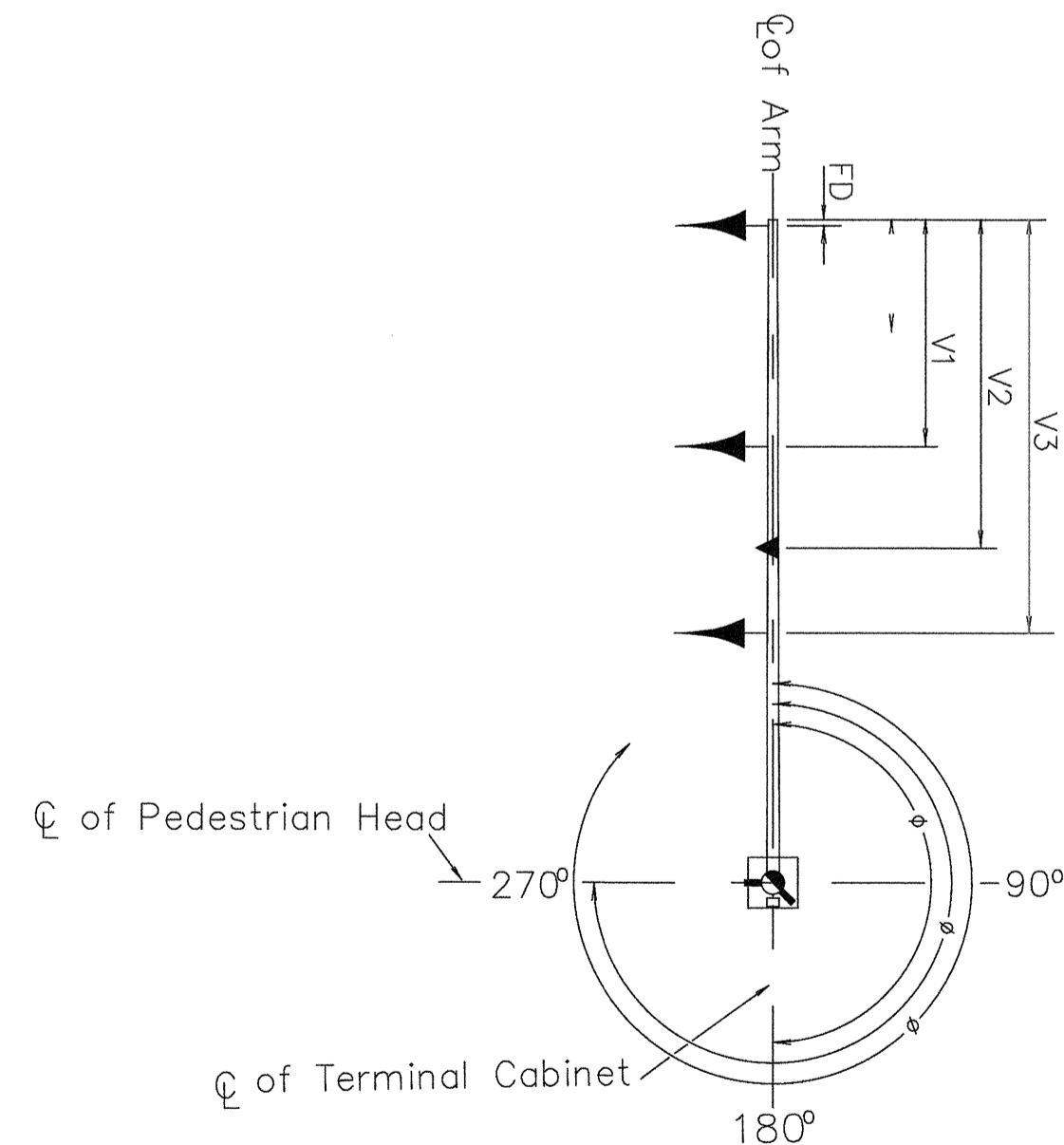
WIRES & CABLES

- 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

SIGNS

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

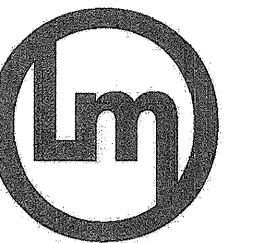
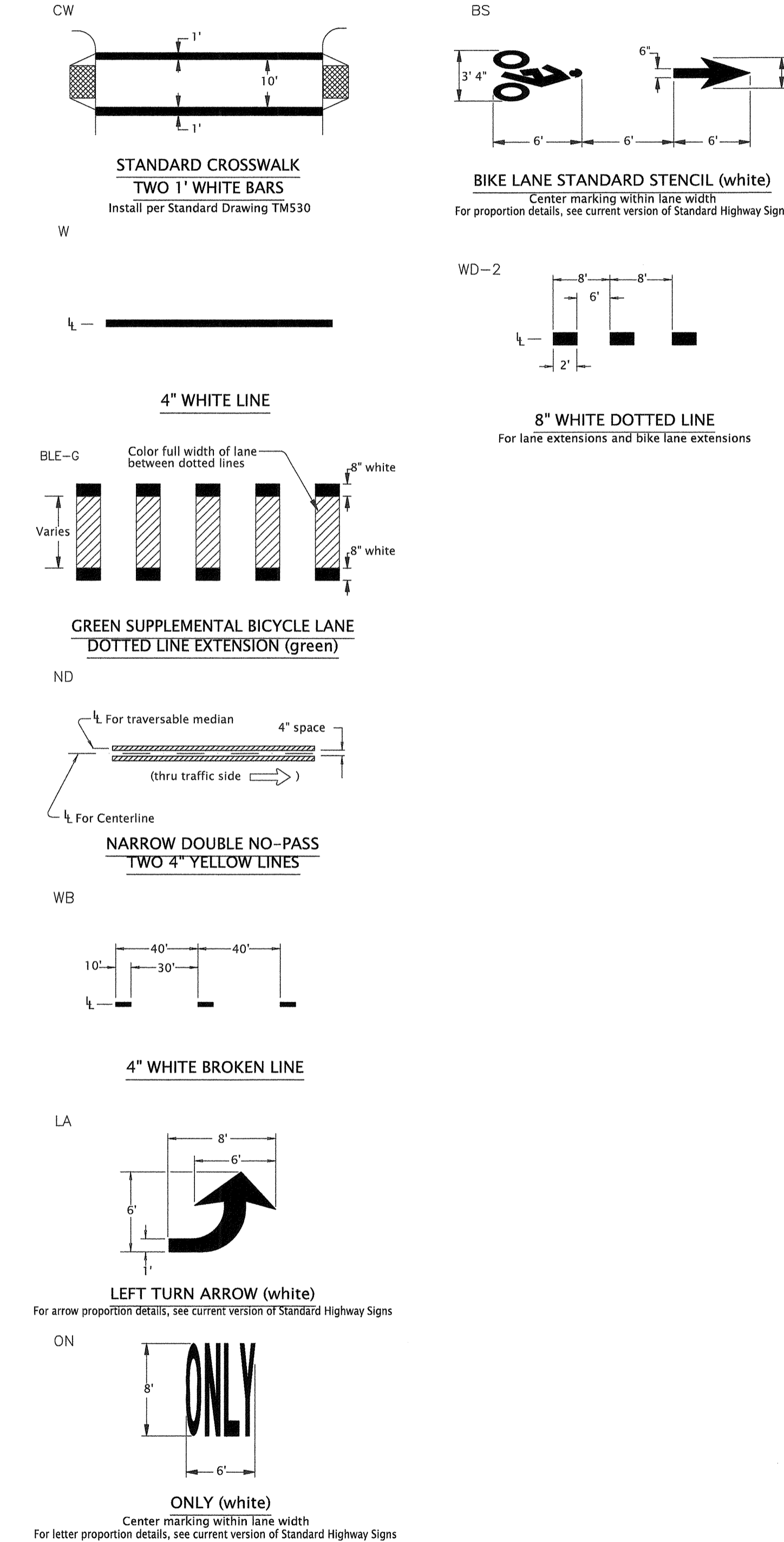
ORIENTATION DIAGRAM



STRIPING SYMBOLS

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

STRIPING NOTATIONS



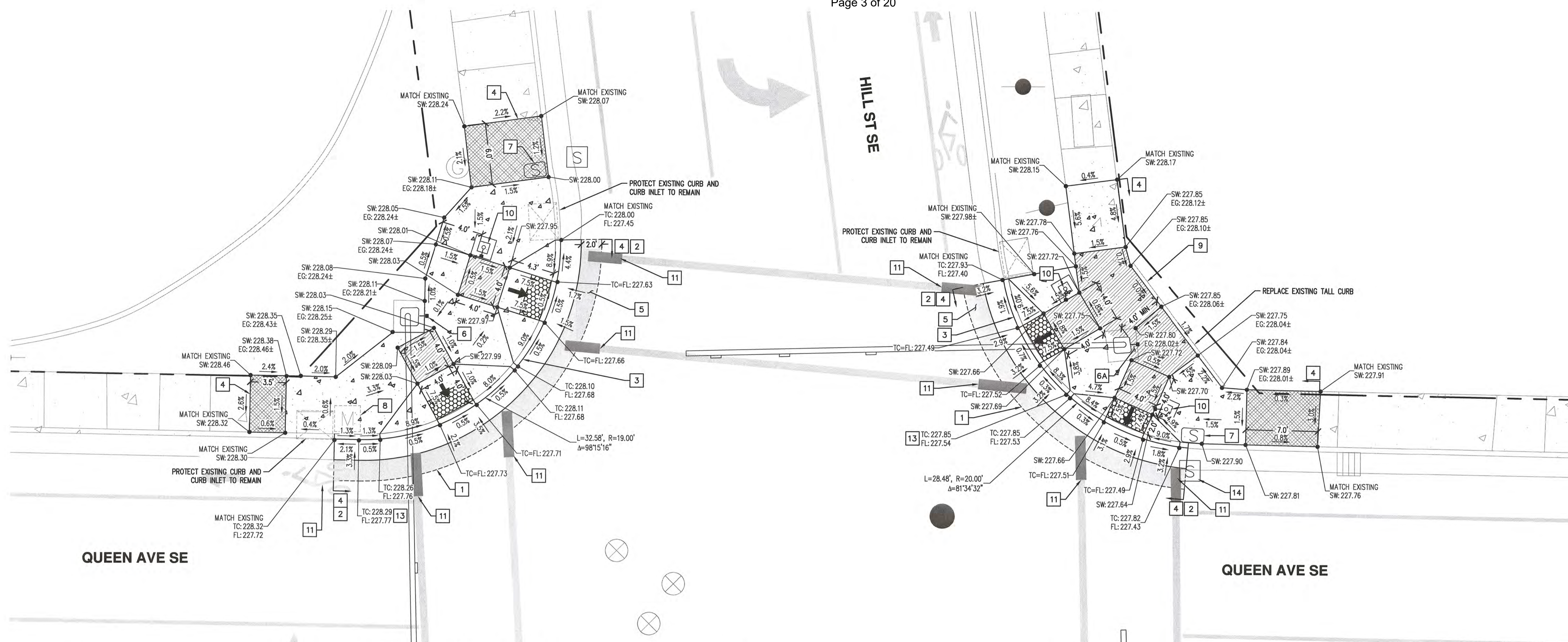
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REVISIONS	By:	Des.:
Rev: 2/16/2023	JLH	JLH
Des: INCORPORATE PERWINKLE PATH IMPROVEMENTS		
Rev:		
Des:		
Rev:		
Des:		

**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: 1/28/22



CR-01

CR-02

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

1. 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.
2. TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
3. CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
4. SAWCUT AT NEXT FURTHEST JOINT, REMOVE AND REPLACE EXISTING CURB, CURB RAMP AND/OR SIDEWALK AS SHOWN.
5. ASPHALT PATCH PER CITY OF ALBANY STANDARD DETAIL NO. 207. MATCH EXISTING. EXISTING PAVEMENT DEPTHS BASED ON AS-BUILTS ARE AS FOLLOWS:

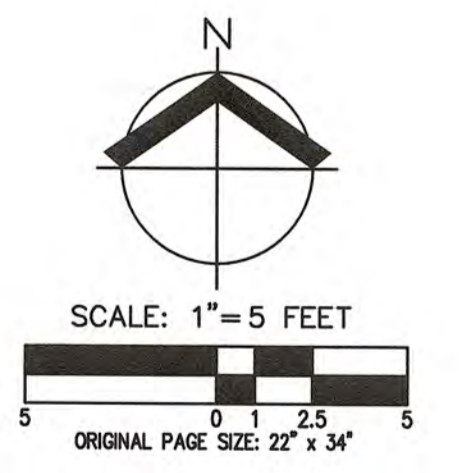
QUEEN/HILL	11 INCHES
QUEEN/GEARY	10 INCHES
WAVERLY/21ST	6 INCHES
WAVERLY/GRAND PRAIRIE	11 INCHES
6. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS SIGNAL IMPROVEMENTS AND PUSH BUTTON INSTALLATION DETAILS.
- 6A. CONTRACTOR TO GRIND EXISTING SIGNAL FOUNDATION AS NECESSARY TO 2-INCHES BELOW NEW 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.
7. CONTRACTOR TO REPLACE EXISTING JUNCTION BOX AND ADJUST TO FINISH GRADE AS REQUIRED. SEE LANCASTER MOBLEY PLANS FOR RELOCATION.
8. CONTRACTOR TO ADJUST WATER STRUCTURE TO FINISH GRADE. COORDINATE WITH CITY OF ALBANY FORCES AS REQUIRED.
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.
15. NEW SHARED USE STRIPING. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS

NOTES

1. SIDEWALK CROSS SLOPE DESIGNED TO 1.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED CROSS-SLOPE SHALL NOT EXCEED 2%.
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.
3. REMOVE EXISTING SIDEWALK TO NEXT FURTHEST PANEL JOINT AT MATCH POINTS IF DESIGNED MATCH POINT NOT LOCATED AT EXISTING PANEL JOINT.
4. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS.
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8. 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.
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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
- DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ASPHALT PATCH
- PEDESTRIAN POLE AND BASE
- PUSH BUTTON



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REVISIONS	By	Des.

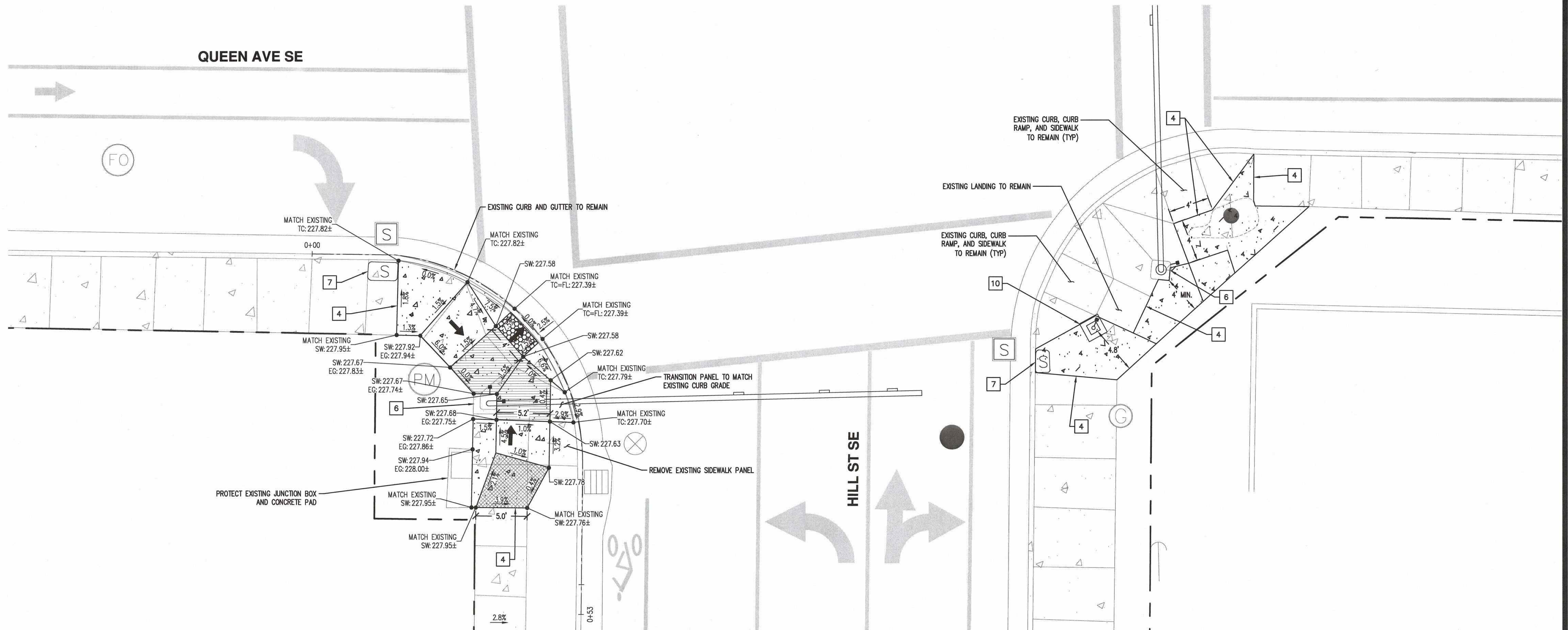
**ALBANY A.R.T.S. UPGRADES
CURB RETURN**

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

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WWW.AKS-ENG.COM

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QUEEN AVE SE



CR-03

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

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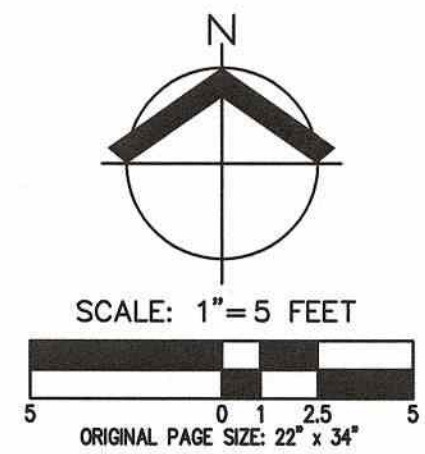
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LEGEND

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- FL GUTTER FLOWLINE
- EG EXISTING GRADE
- SW SIDEWALK
- X.X% 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-04



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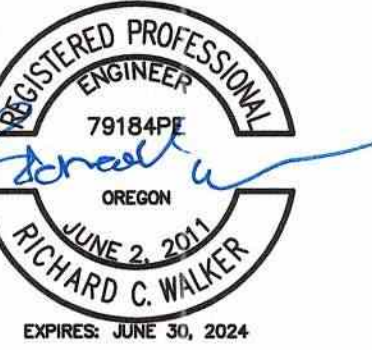


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REVISIONS	By: ADM	Des: Des:	Ref: Ref:
Rev: 2/15/2023	By: ADM	Des: Des:	Ref: Ref:
Des: REMOVAL OF NOTE FOR PACIFIC POWER ADJUSTMENT OF CONDUIT RISER	By: ADM	Des: Des:	Ref: Ref:

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

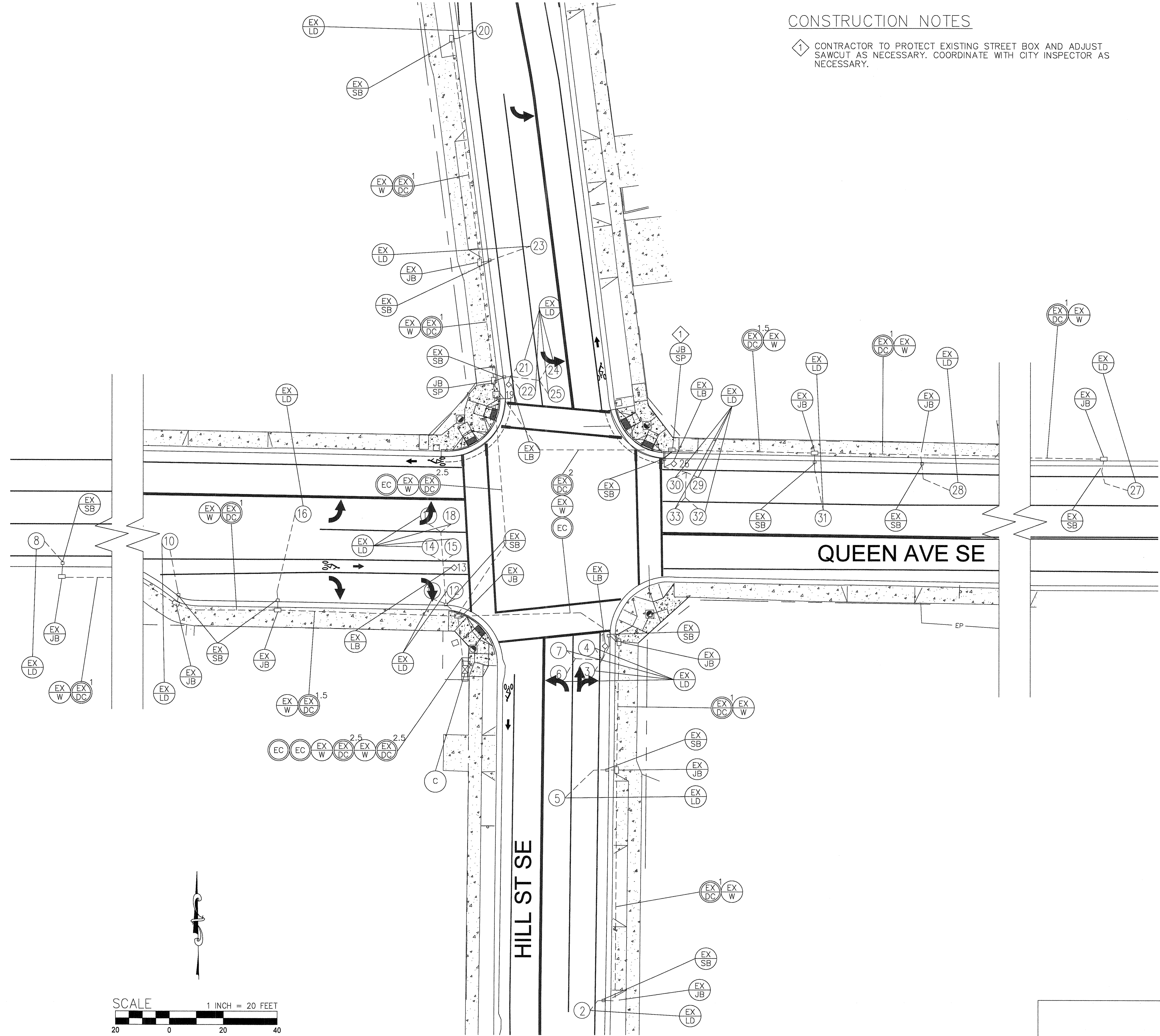
Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GMB
Checked By: RCW
Date: 1/27/22

C102

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

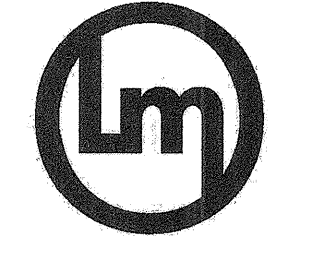
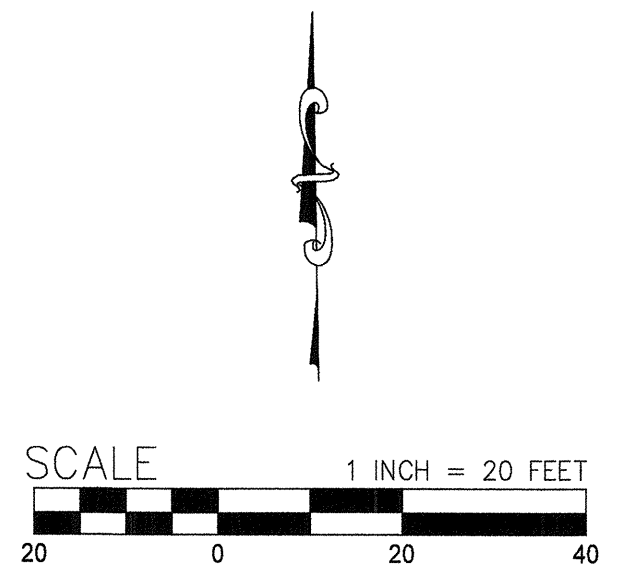


CONSTRUCTION NOTES

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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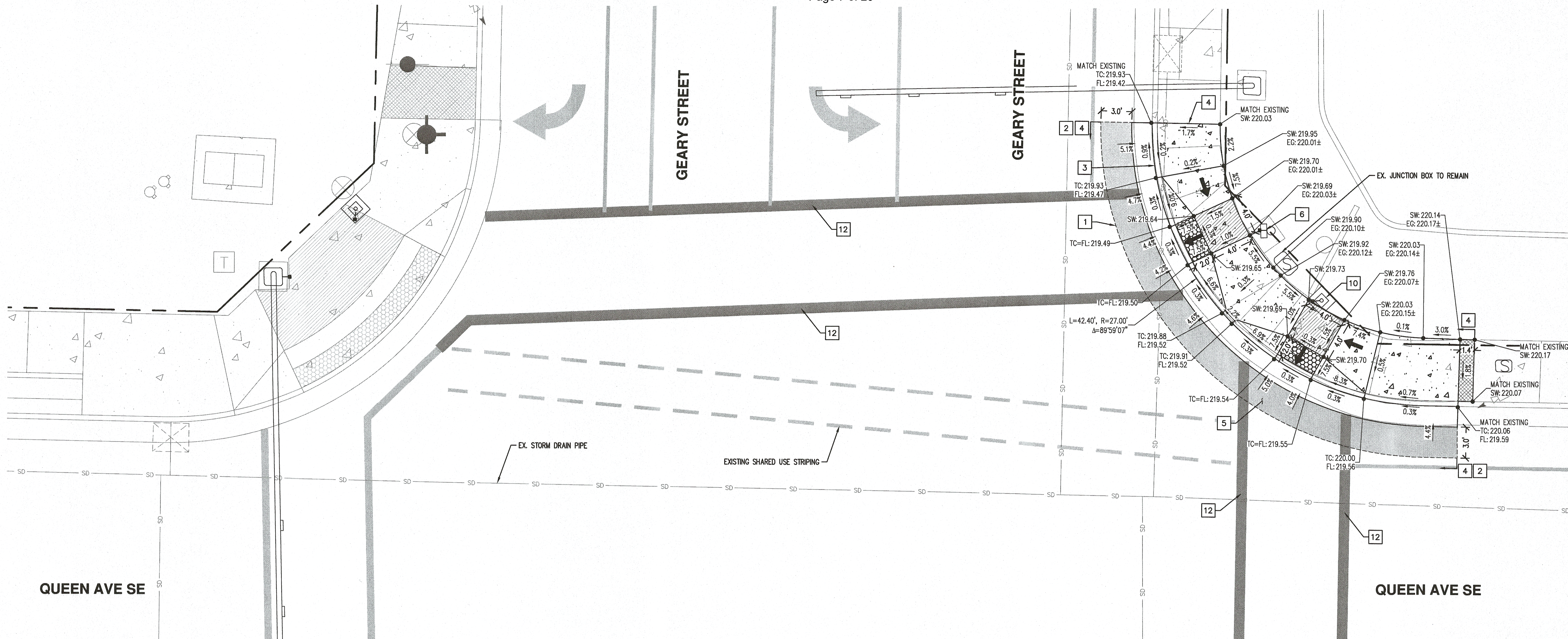
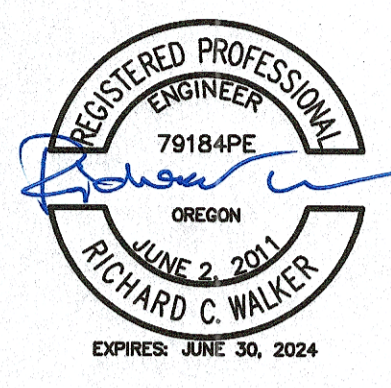
REVISIONS	By:	Des:

**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



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KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

1. 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.
2. TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
3. CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
4. SAWCUT AT NEXT FURTHEST JOINT, REMOVE AND REPLACE EXISTING CURB, CURB RAMP AND/OR SIDEWALK AS SHOWN.
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QUEEN/HILL	11 INCHES
QUEEN/GEARY	10 INCHES
WAVERLY/21ST	6 INCHES
WAVERLY/GRAND PRAIRIE	11 INCHES
6. SEE LANCASTER MOBLEY TRAFFIC SIGNAL MODIFICATION PLANS SIGNAL IMPROVEMENTS AND PUSH BUTTON INSTALLATION DETAILS.
- 6A. 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.
7. CONTRACTOR TO REPLACE EXISTING JUNCTION BOX AND ADJUST TO FINISH GRADE AS REQUIRED. SEE LANCASTER MOBLEY PLANS FOR RELOCATION.
8. CONTRACTOR TO ADJUST WATER STRUCTURE TO FINISH GRADE. COORDINATE WITH CITY OF ALBANY FORCES AS REQUIRED.
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.

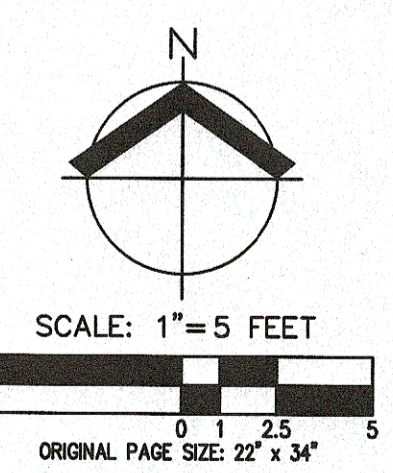
NOTES

1. SIDEWALK CROSS SLOPE DESIGNED TO 1.5% MAX. UNLESS OTHERWISE NOTED, CONSTRUCTED CROSS-SLOPE SHALL NOT EXCEED 2%.
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.
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4. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS.
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7. 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.
8. 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.
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LEGEND

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

CR-06



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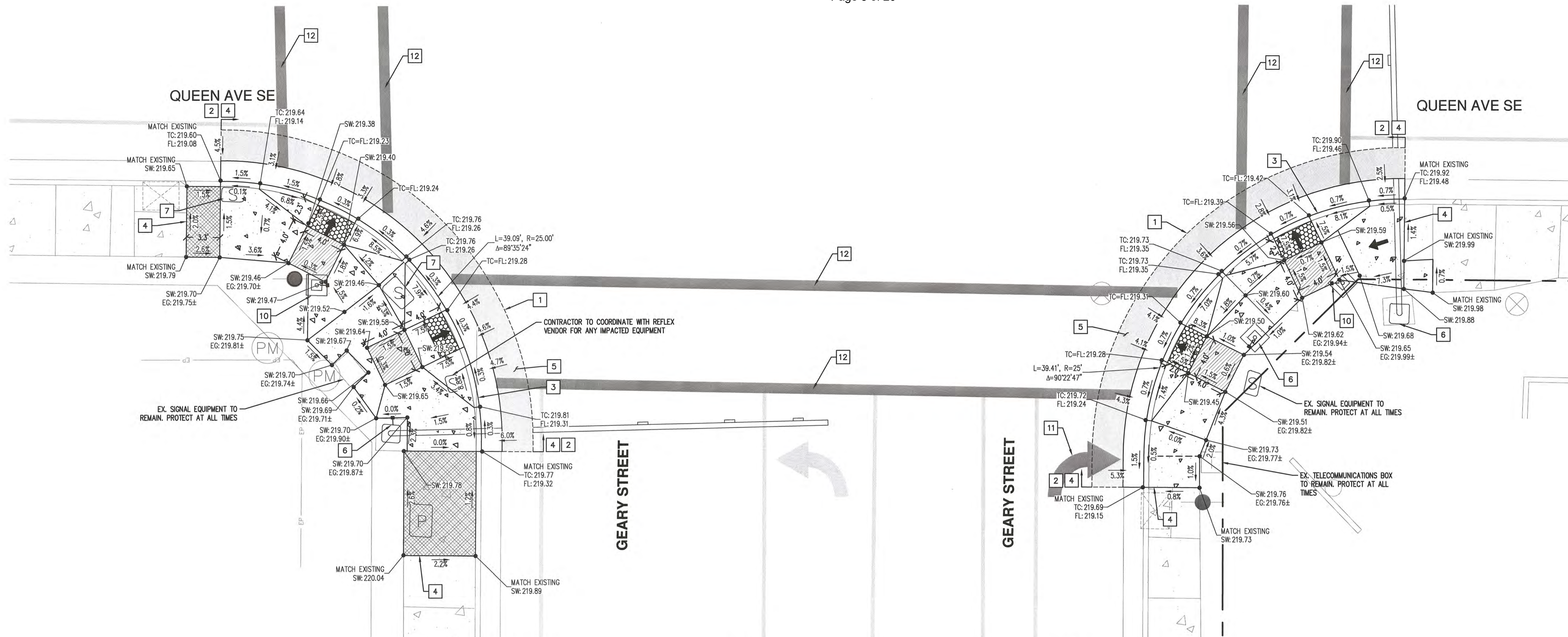
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FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE

REVISIONS

Rev. 01/19/2023	By: ADM
Des: REMOVAL OF CURB FROM REBID	By: []
Rev. []	Des: []
Rev. []	Des: []

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

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



CR-07

CR-08

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

1. 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.
2. TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
3. CONSTRUCT TYPE "A" CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
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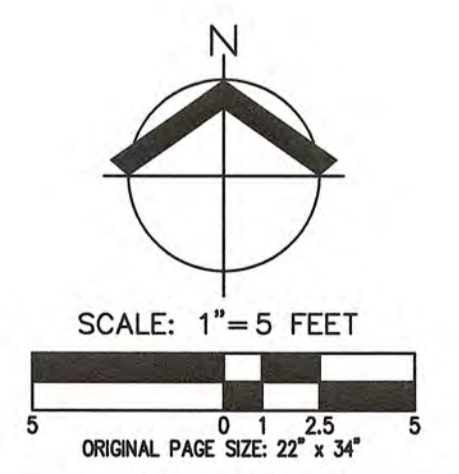
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- ← CURB RAMP
- ▨ LANDING
- ▩ CROSS SLOPE TRANSITION PANEL
- ▧ DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ▭ ASPHALT PATCH
- PEDESTRIAN POLE AND BASE
- PUSH BUTTON



REVISIONS

Rev.	By:	Des:

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

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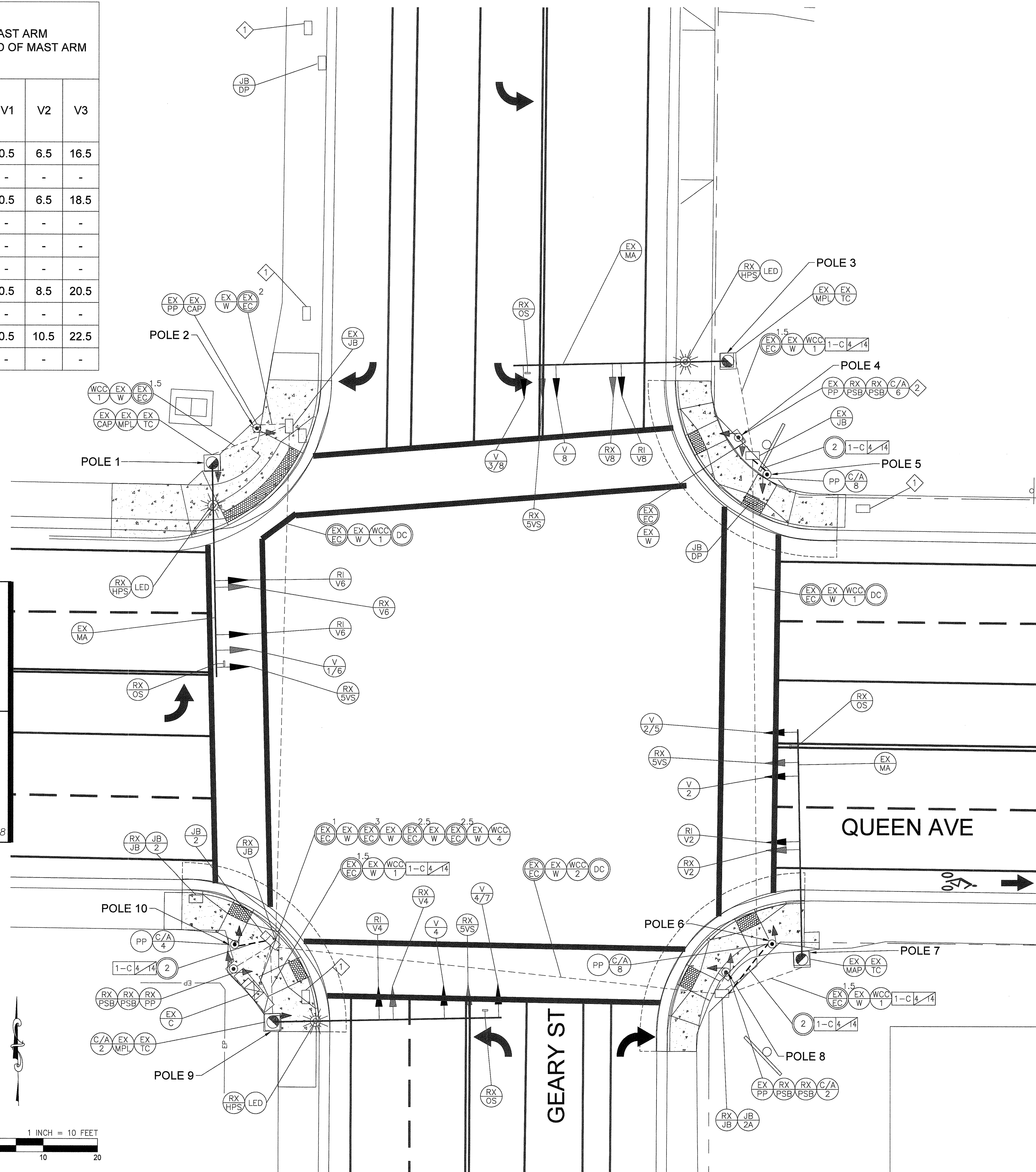
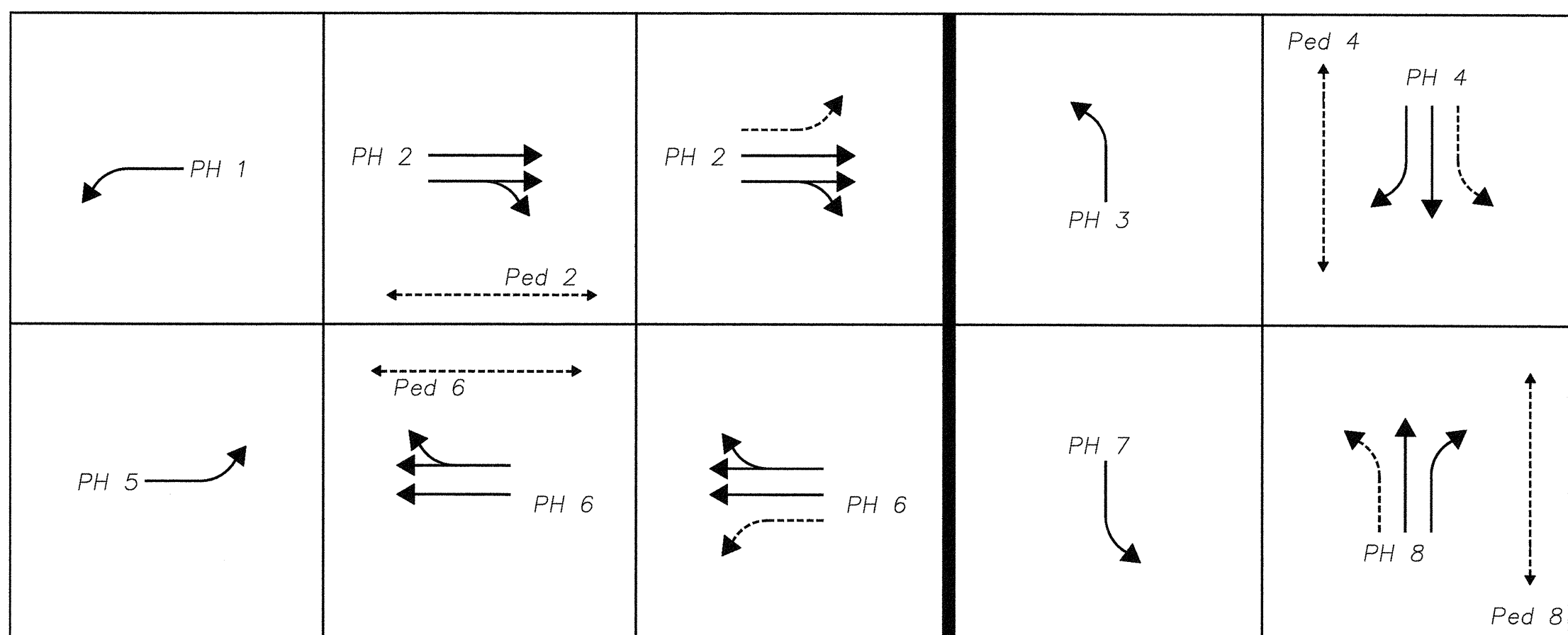


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Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GHB
Checked By: RCW
Date: 1/27/22

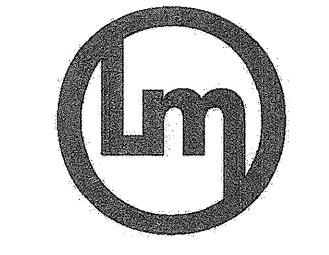
POLE NO.	TYPE	EQUIPMENT ON POLE					EQUIPMENT ON MAST ARM				
		MAST ARM ORIENTATION	LUMINAIRE ORIENTATION	TERM CABINET DEGREE	PED PUSHBUTTON DEGREE	PED SIGNAL DEGREE	ARM LENGTH	FIRE PREEMPTION	V1	V2	V3
1	MAP	EX	-	EX	EX	EX	40	-	0.5	6.5	16.5
2	PP	-	-	-	EX	EX	-	-	-	-	-
3	MPL	EX	EX	EX	-	-	40	-	0.5	6.5	18.5
4	PP	-	-	-	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 CONTACT RED LIGHT CAMERA VENDOR, REDFLEX, FOR IMPACT TO EQUIPMENT. CHRIS RENZI (915) 727-1990
- ② PUSHBUTTON SIGN EXTENDER NEEDED WITH SIDE-MOUNTED BUTTONS



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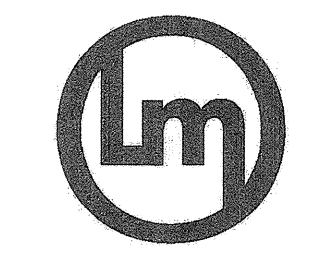
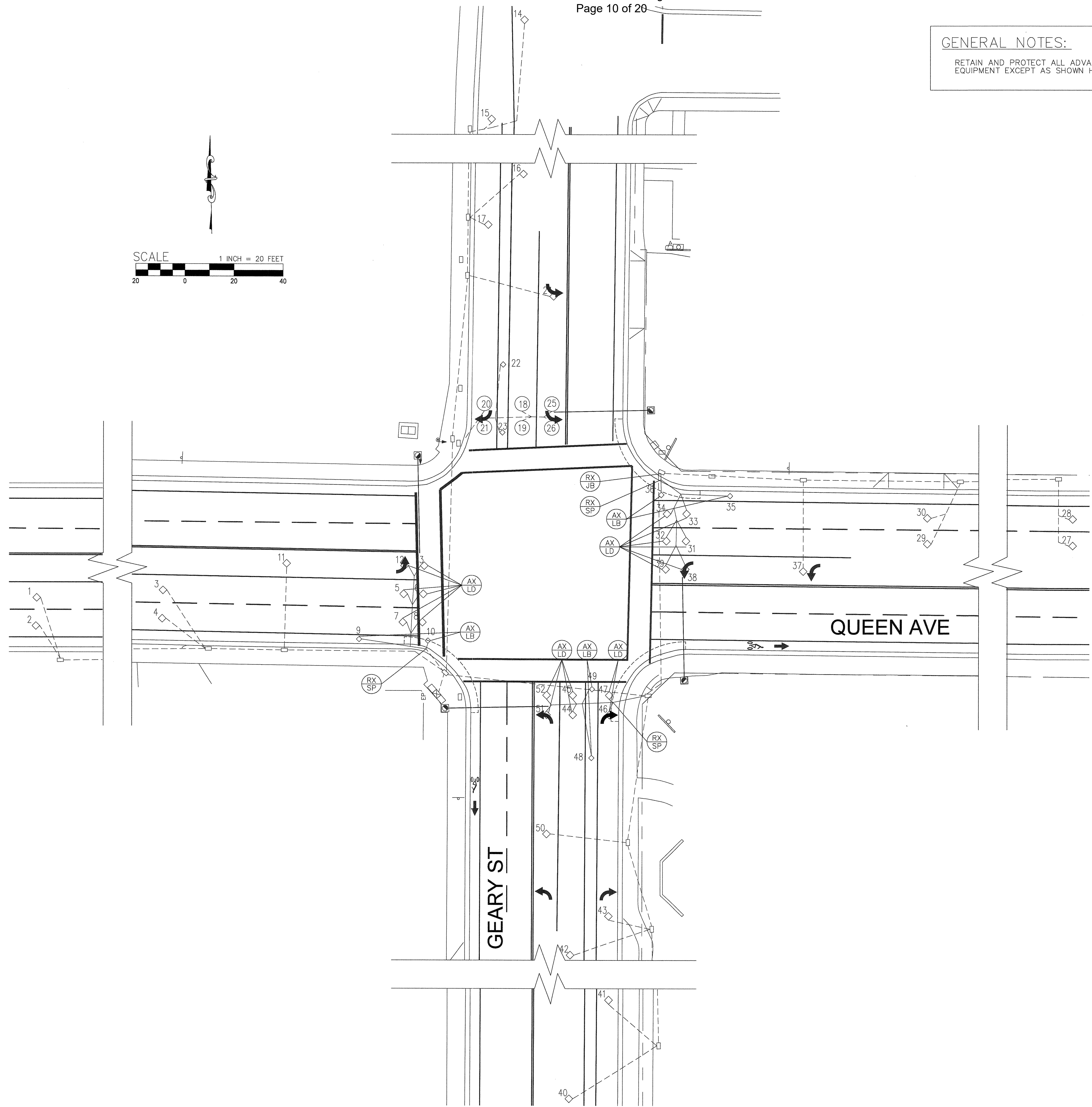
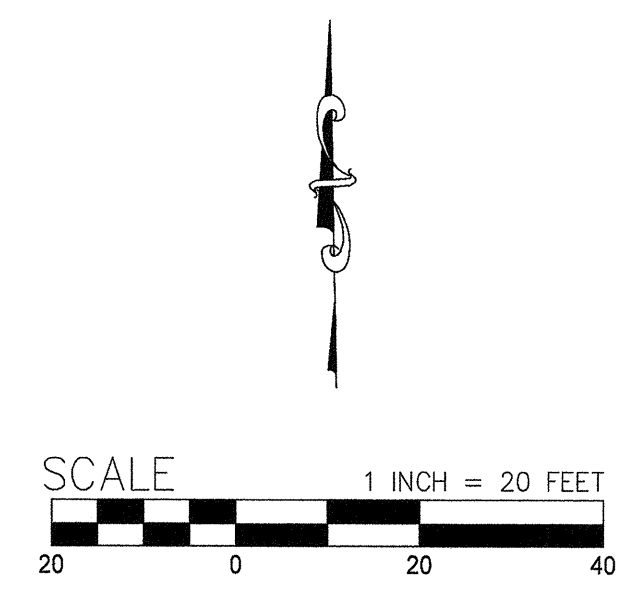
REVISIONS

Rev: 2/16/2023	By: JLH	Des: INCORPORATE PERIWINKLE PATH IMPROVEMENTS
	By:	Des:
	By:	Des:

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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Des: INCORPORATE PERWINKLE PATH IMPROVEMENTS	By:
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Des:	By:

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

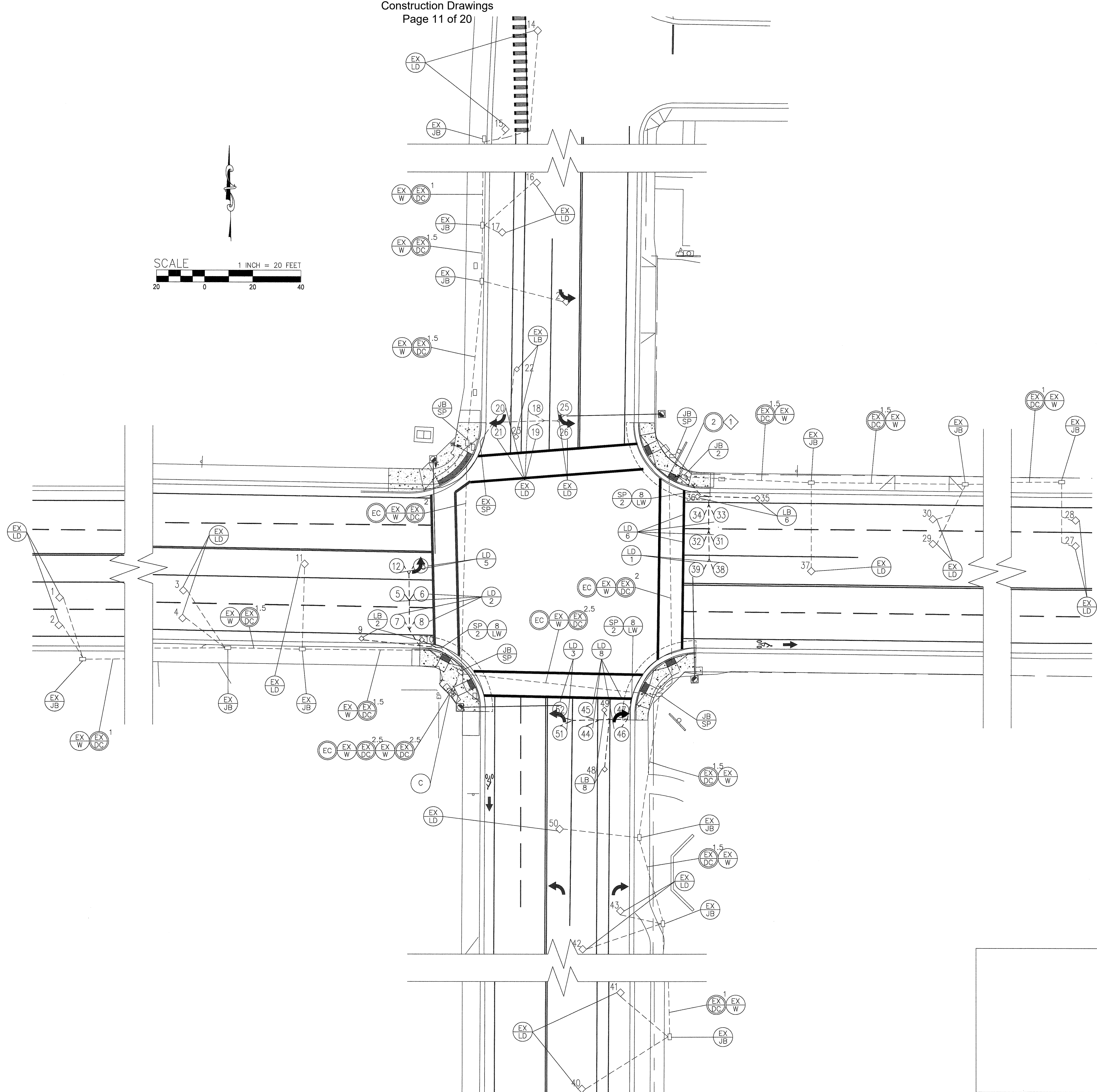
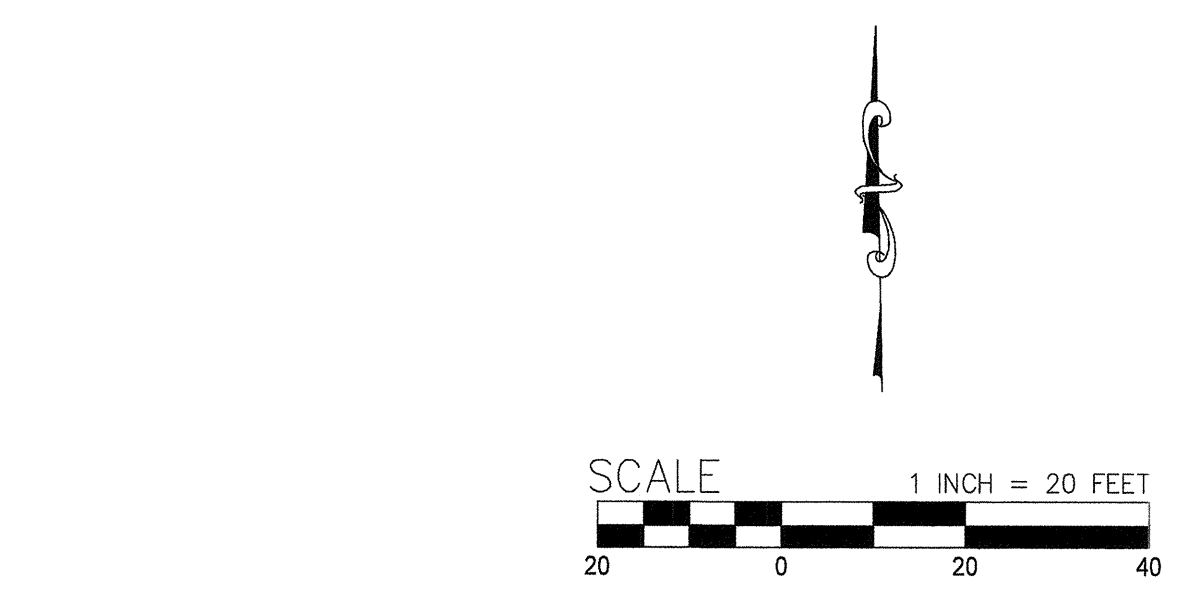
Job No. 20100
Designed By: JLH
Drawn By: JLH
Checked By: TEM
Date: 1/28/22

T6

LOOP/RADAR WIRING DIAGRAM

LOOP #	DISTANCE (FEET)	PHASE	FUNCTION	SLOT
1	215	2	E, C, CO	I2U
2	215			
3	105	2	E, C, CO	I2L
4	105			
5	15			
6	5			
7	15	2	E, C	I3U
8	5			
9	25			
10	5	2	E, C, CO	I3L
11	71	5	E, C, CO	J1U
12	15	5	E, C	J9U
13	5			
14	217	4	E, C, CO	I6U
15	177			
16	107	4	E, C, CO	I6L
17	87			
18	15			
19	5	4	E, C	I7U
20	15			
21	5			
22	25	4	E, C, CO	I7L
23	5			
24	73	7	E, C, CO	J5U
25	15	7	E, C	J9L
26	5			
27	215	6	E, C, CO	J2U
28	215			
29	105	6	E, C, CO	J2L
30	105			
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			
42	106	8	E, C, CO	J6L
43	86			
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			
52	5	3	E, C, CO	I9L

NO WORK



CONSTRUCTION NOTES

1 INTERCEPT AND SPLICE INTO EXISTING CONDUIT

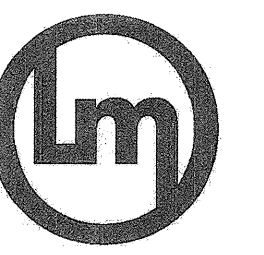
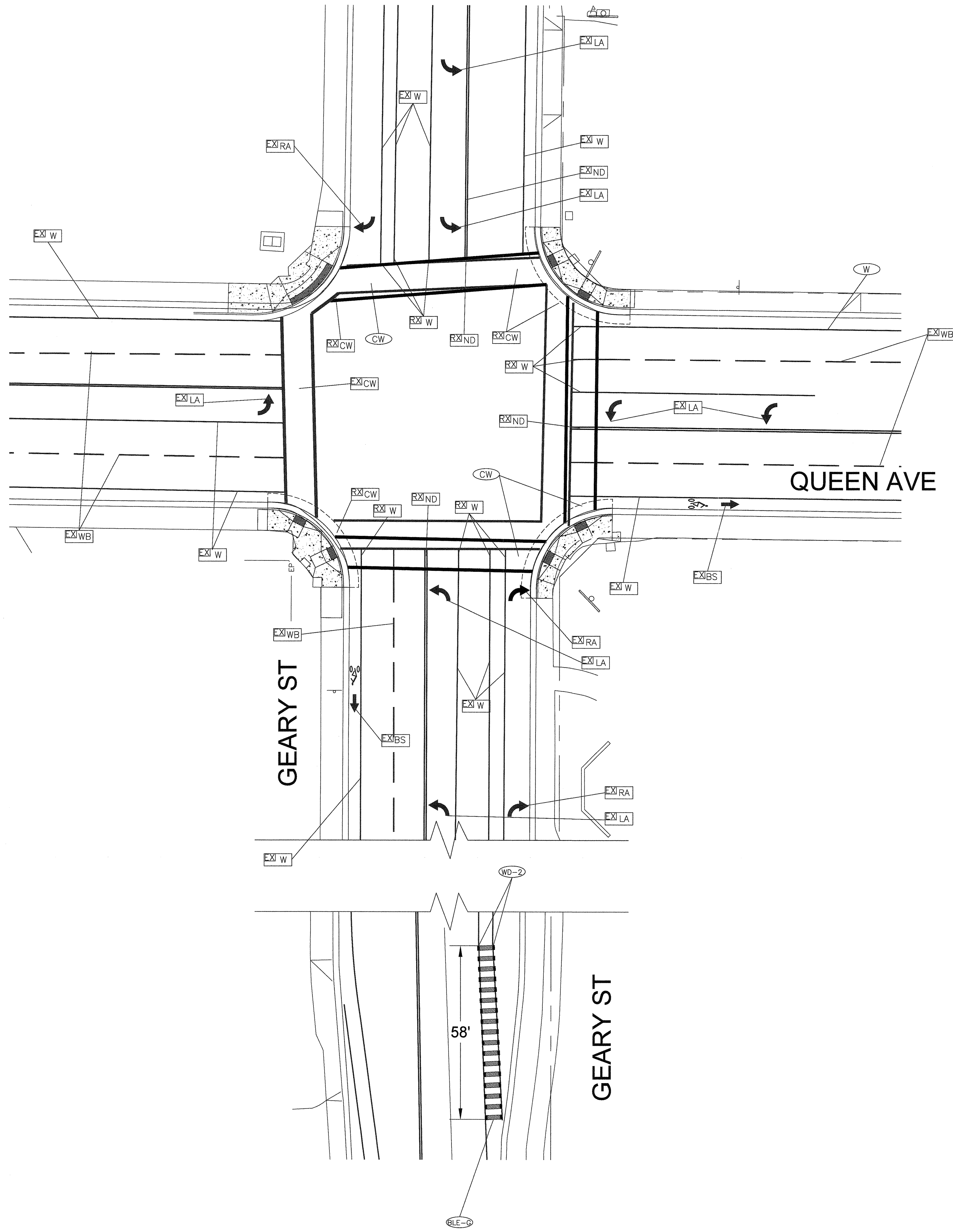
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Rev: 2/16/2023	By: JLH
Des: INCORPORATE PERWINKLE PATH IMPROVEMENTS	
Rev:	By:
Des:	By:
Rev:	By:
Des:	By:

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

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



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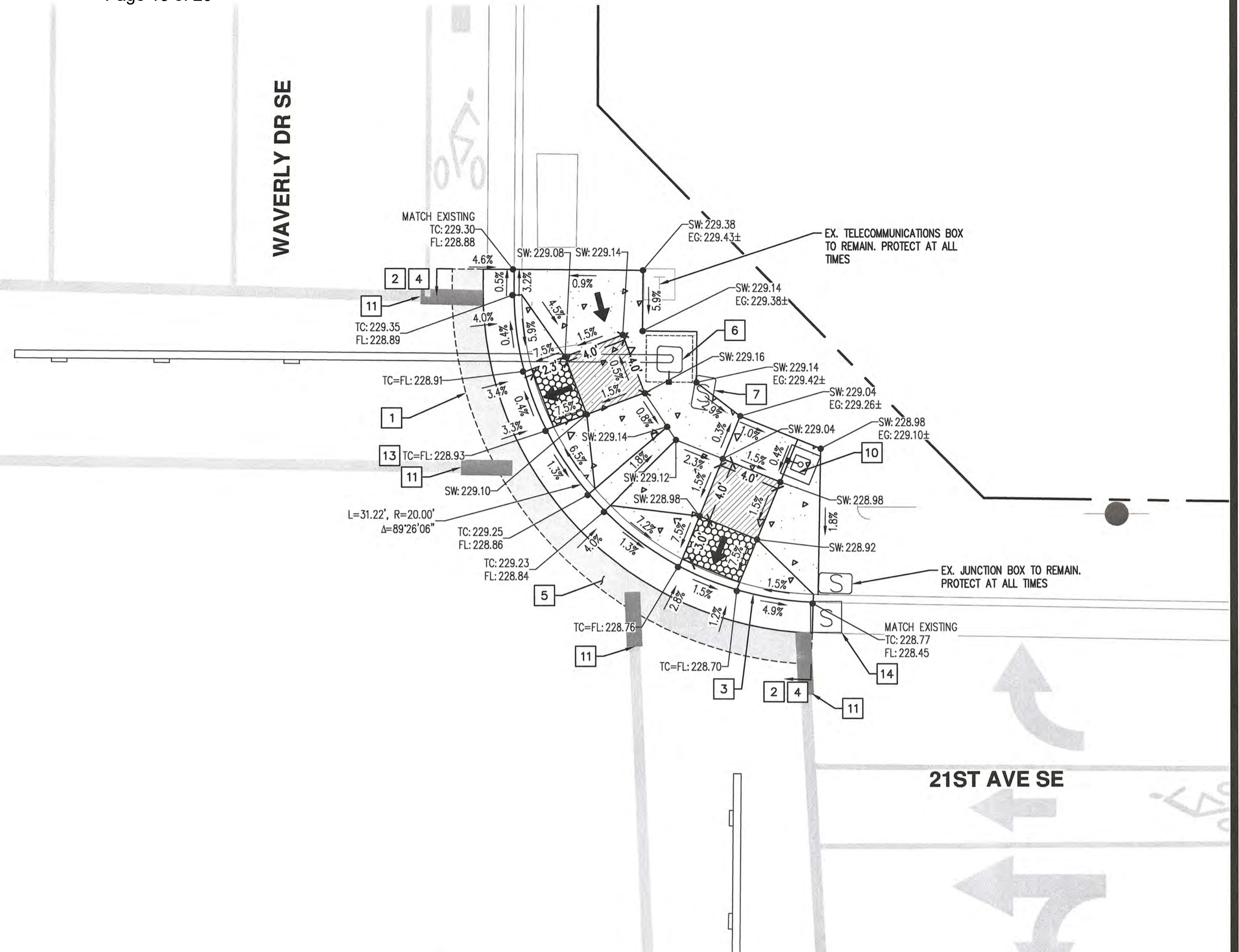
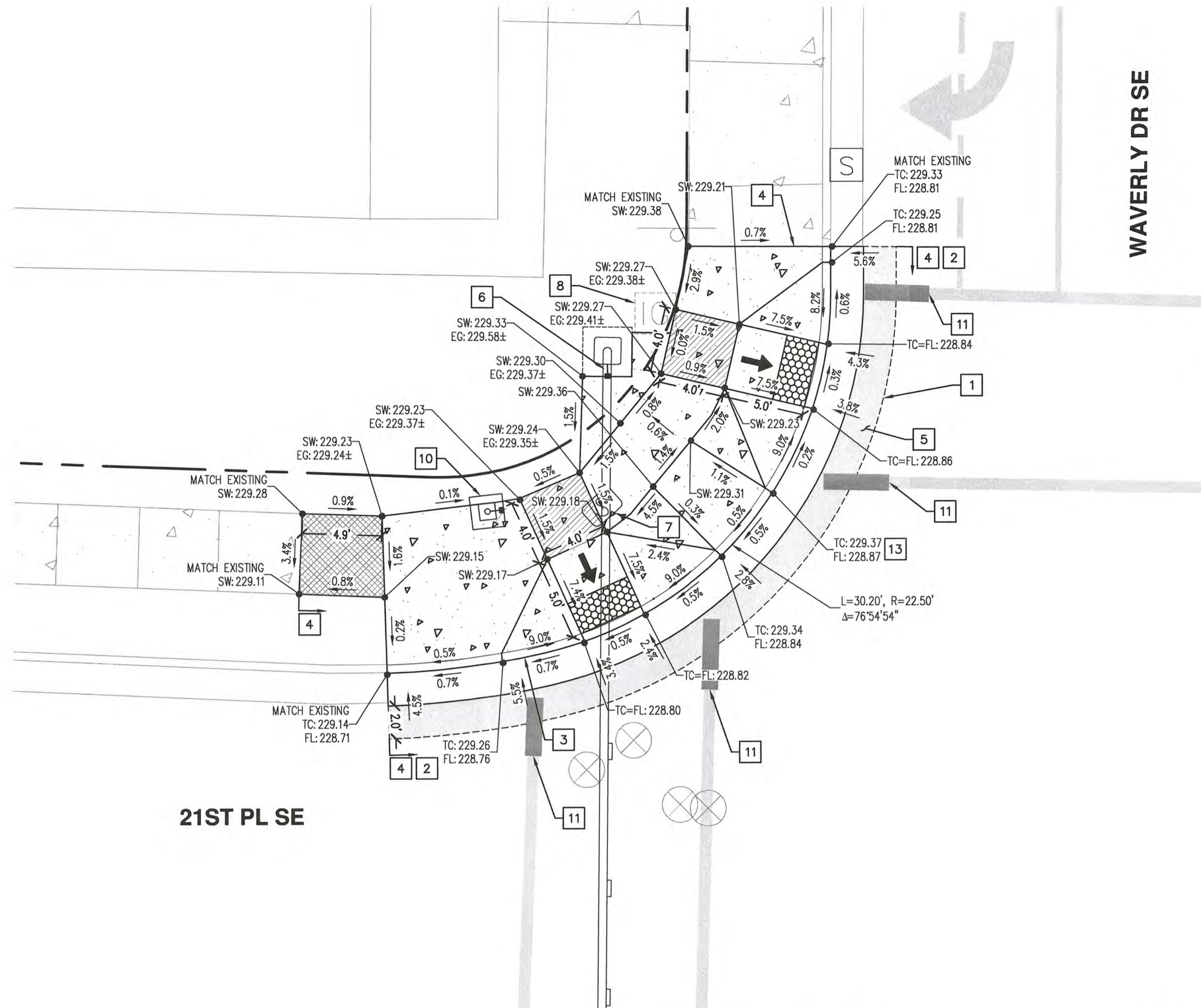
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Des: INCORPORATE PERIWINKLE PATH IMPROVEMENTS		
Rev:		
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**ALBANY A.R.T.S. UPGRADES
QUEEN AVE AT GEARY ST**
Striping Plan
Albany, Oregon

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



CR-09

CR-10

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

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2. TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
3. CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
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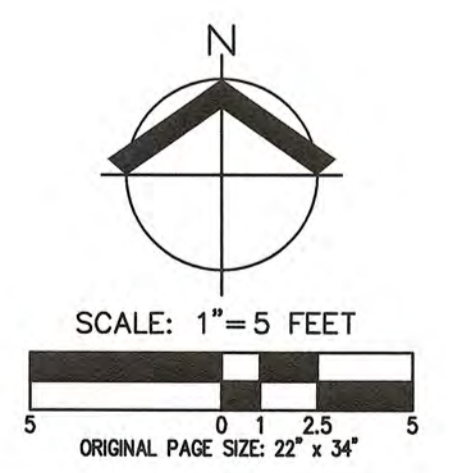
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- ← CURB RAMP
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- ▩ CROSS SLOPE TRANSITION PANEL
- ▧ DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
- ▭ ASPHALT PATCH
- ⊙ PEDESTRIAN POLE AND BASE
- PUSH BUTTON



REVISIONS

Rev.	By:	Des.

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

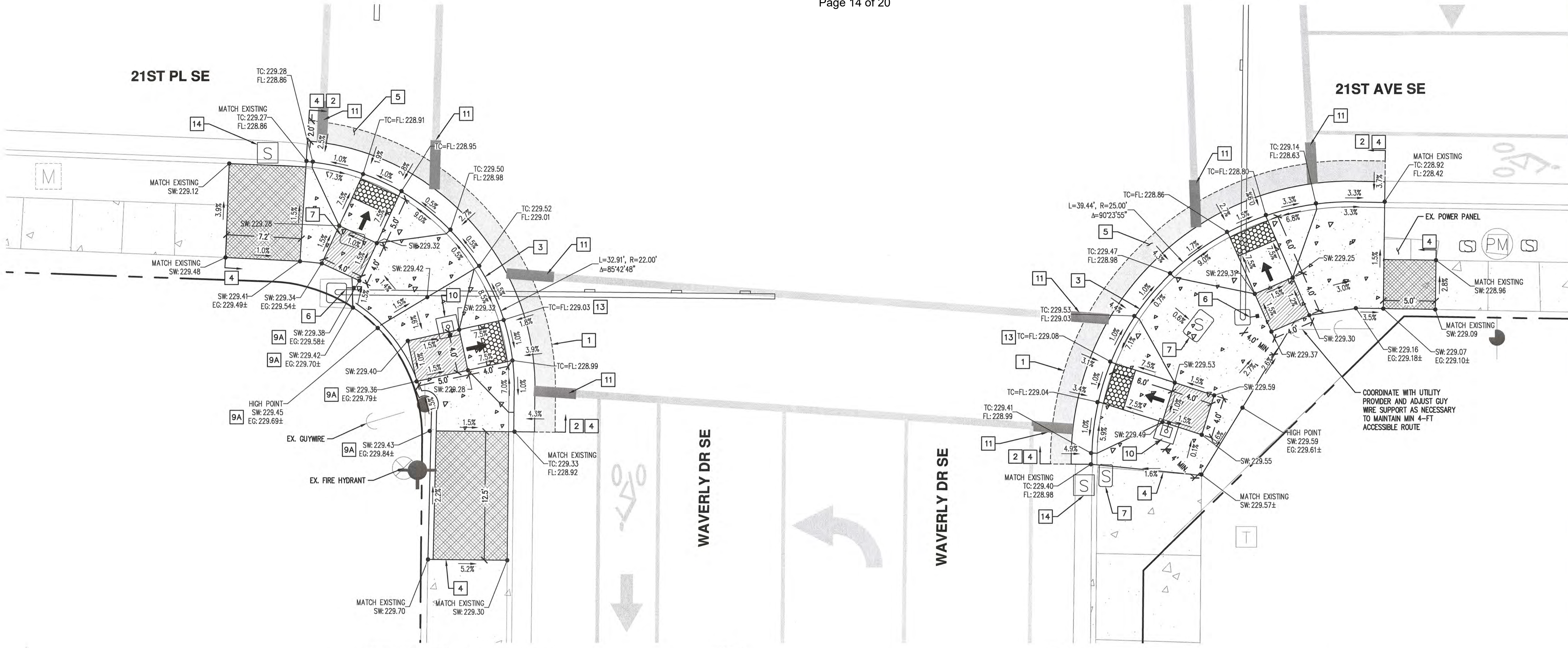
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CR-11

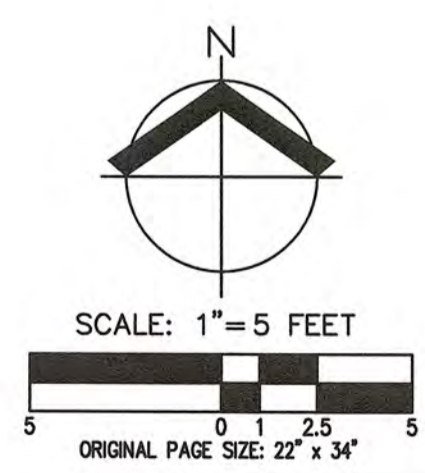
- KEYED NOTES** # (NOT ALL USED FOR EACH SHEET)
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 - TRANSITION GUTTER AND WARP PAN SLOPE AS SHOWN TO MAINTAIN POSITIVE DRAINAGE.
 - CONSTRUCT TYPE 'A' CURB AND GUTTER PER CITY OF ALBANY STANDARD DETAIL NO. 304.
 - SAWCUT AT NEXT FURTHEST JOINT, REMOVE 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.
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 - CONSTRUCT TALL CURB. COORDINATE WITH CITY OF ALBANY FOR INSTALLATION.
 - CONSTRUCT LANDSCAPE CURB PER CITY OF ALBANY CURB RAMP DETAILS.
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 - 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**
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 - 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.
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 - 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.
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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

CR-12



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REVISIONS

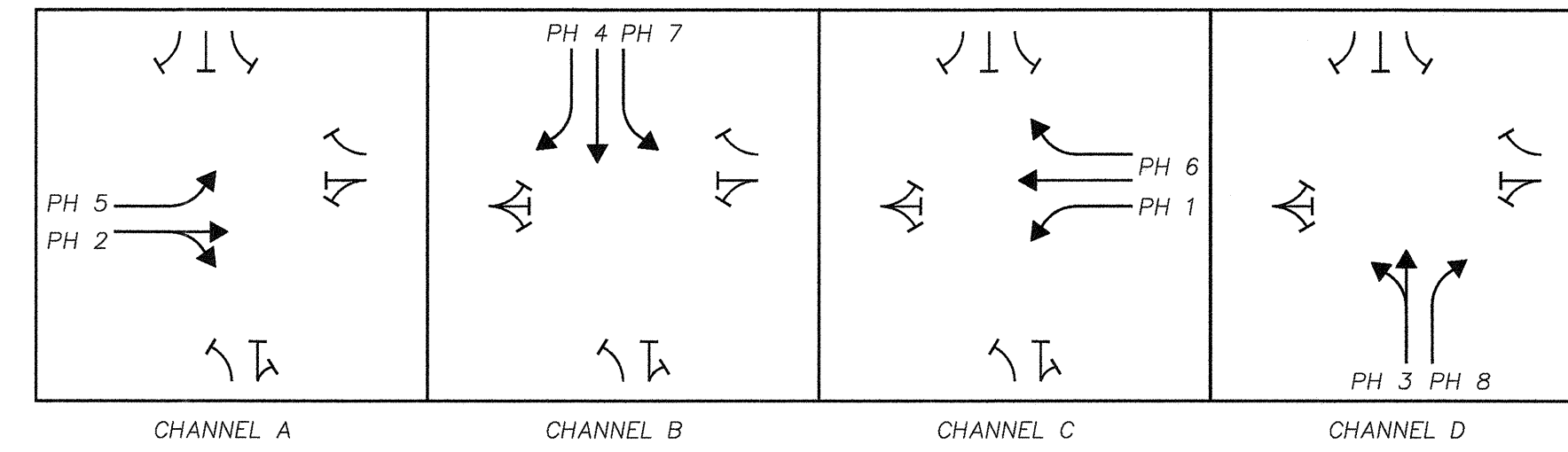
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**ALBANY A.R.T.S. UPGRADES
CURB RETURN**

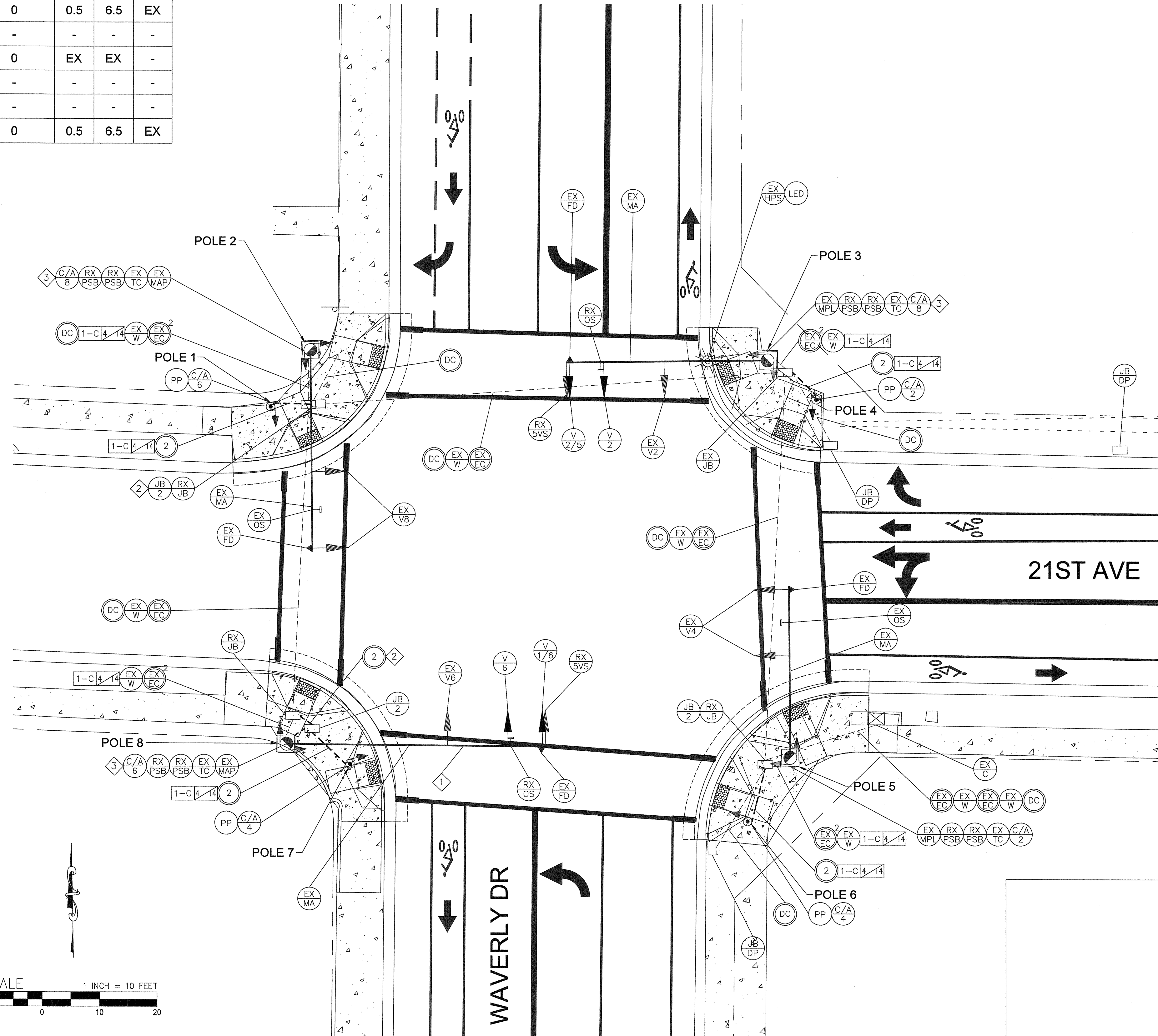
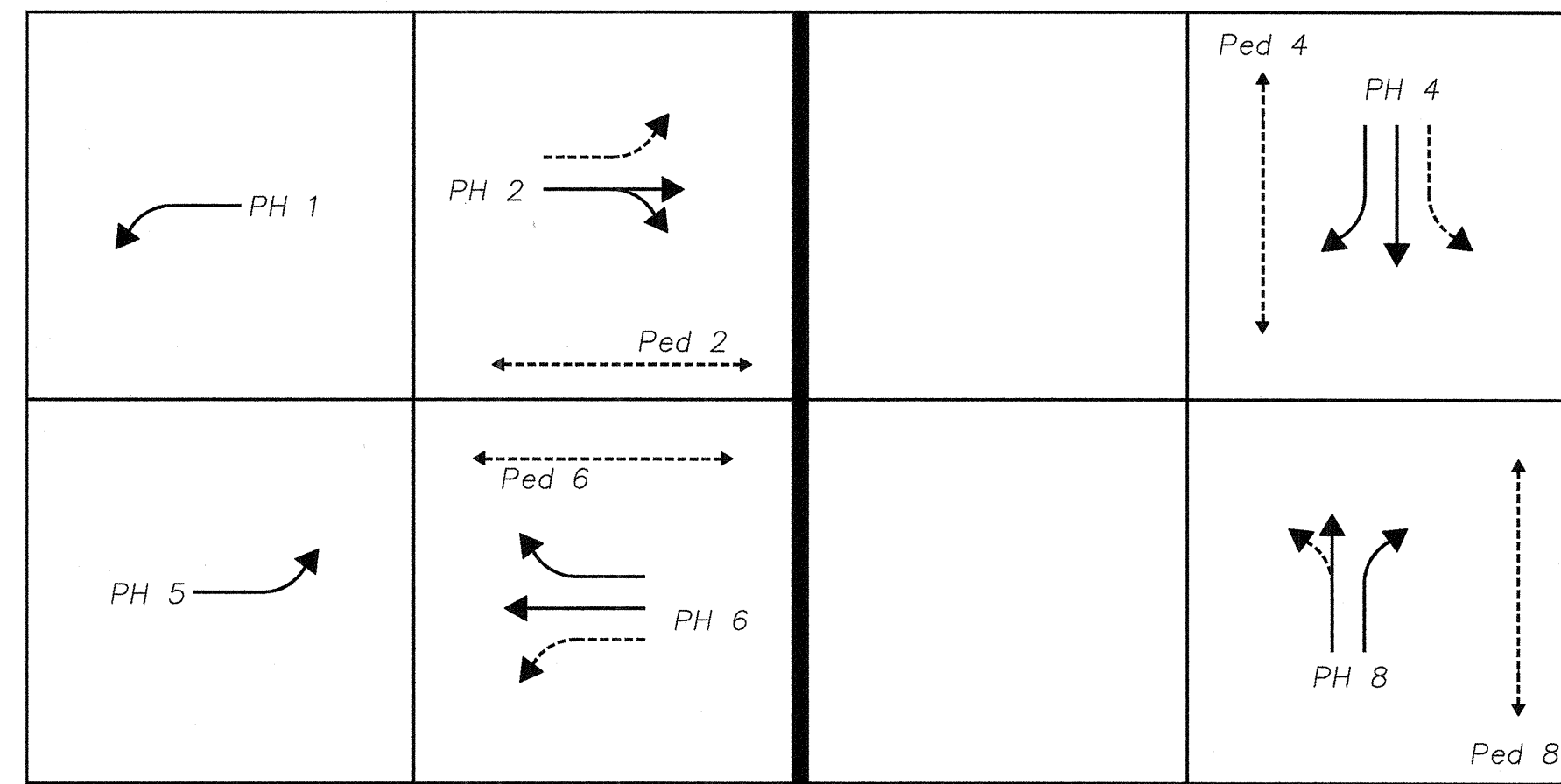
Job No. AKS JOB #8232
Designed By: RCW
Drawn By: GHB
Checked By: RCW
Date: 1/27/22

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	-	-	-	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

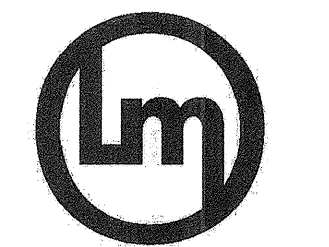
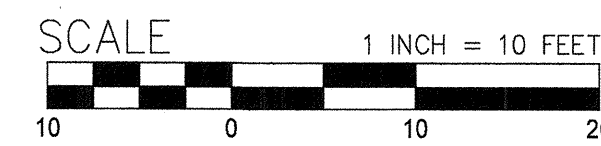


NORMAL PHASE ROTATION DIAGRAM



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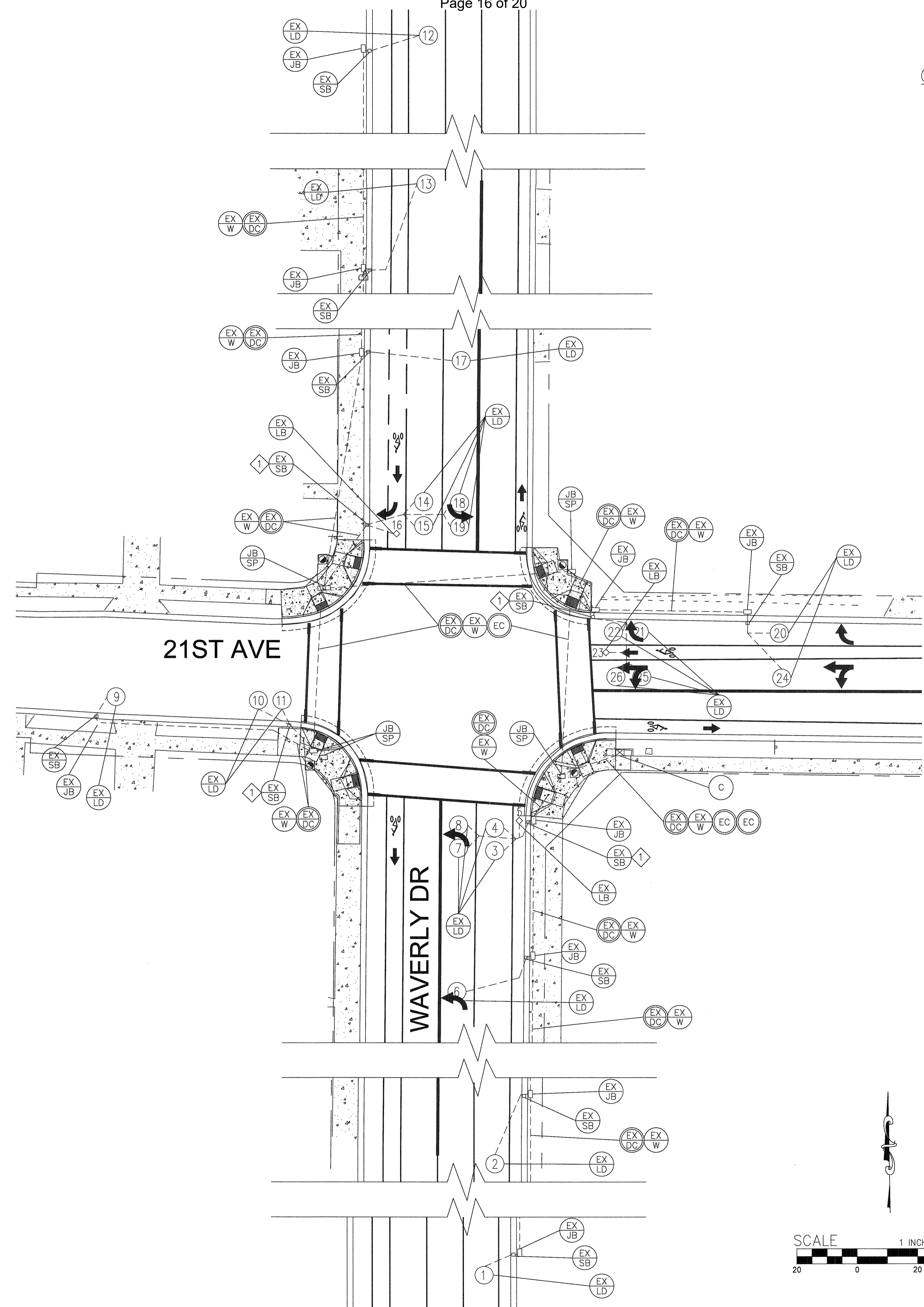
**ALBANY A.R.T.S. UPGRADES
WAVERLY DR AT 21ST AVE**
Signal Modification Plan
Albany, Oregon

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

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

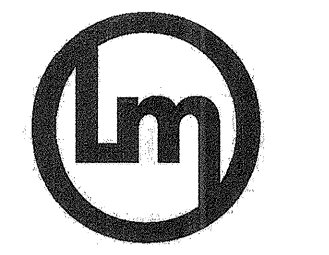
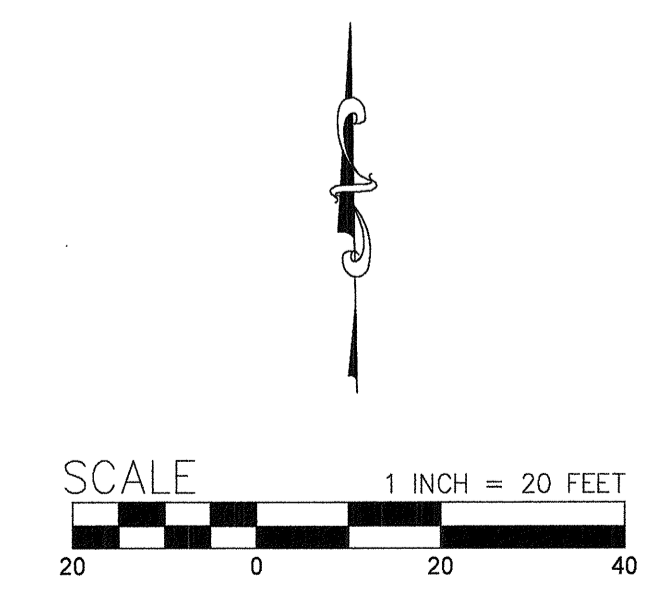
NO WORK



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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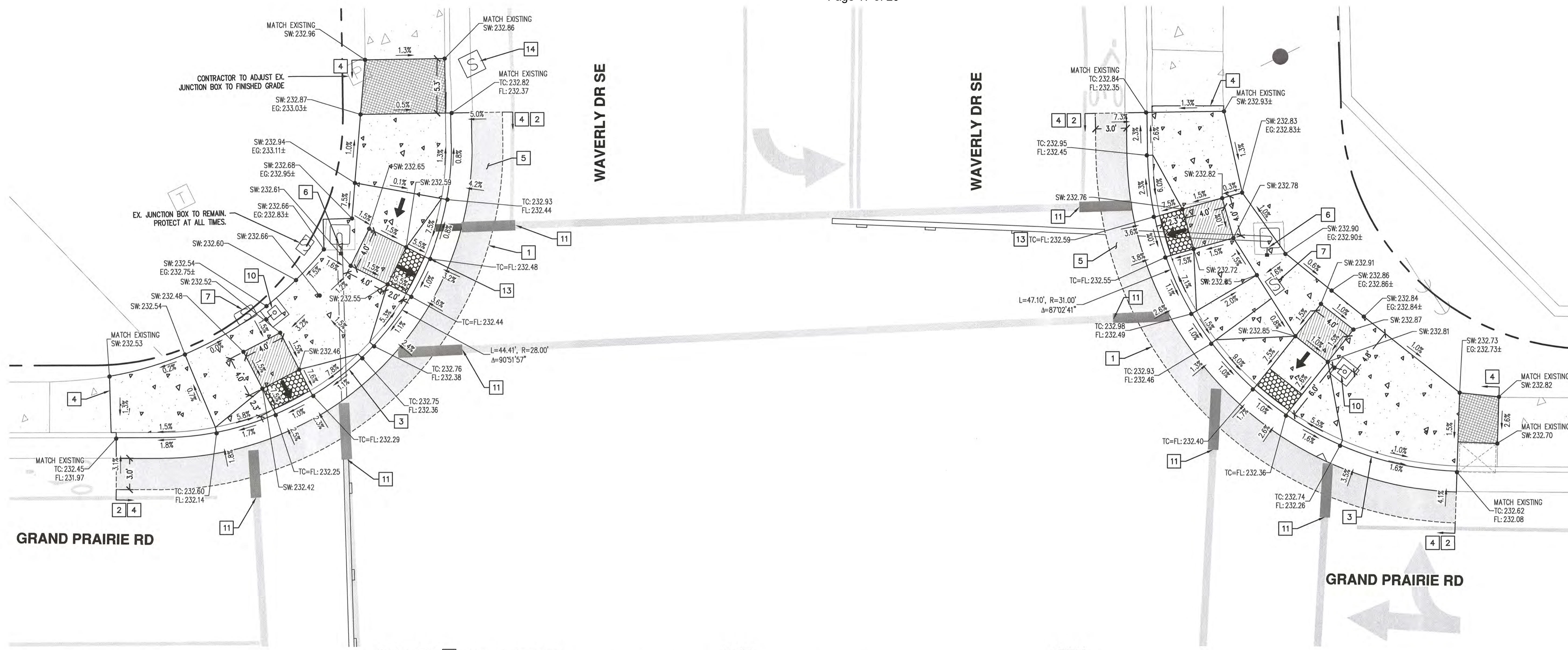


REVISIONS

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



GRAND PRAIRIE RD

WAVERLY DR SE

WAVERLY DR SE

GRAND PRAIRIE RD

CR-13

CR-14

KEYED NOTES # (NOT ALL USED FOR EACH SHEET)

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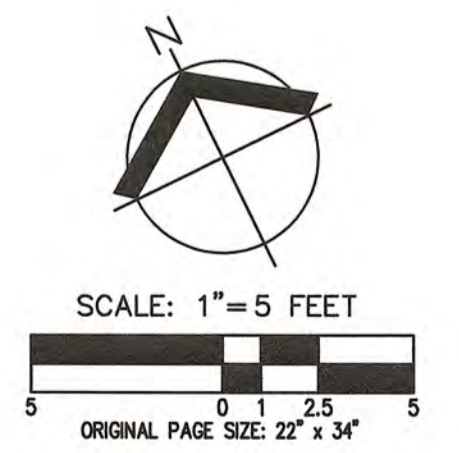
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- ← CURB RAMP
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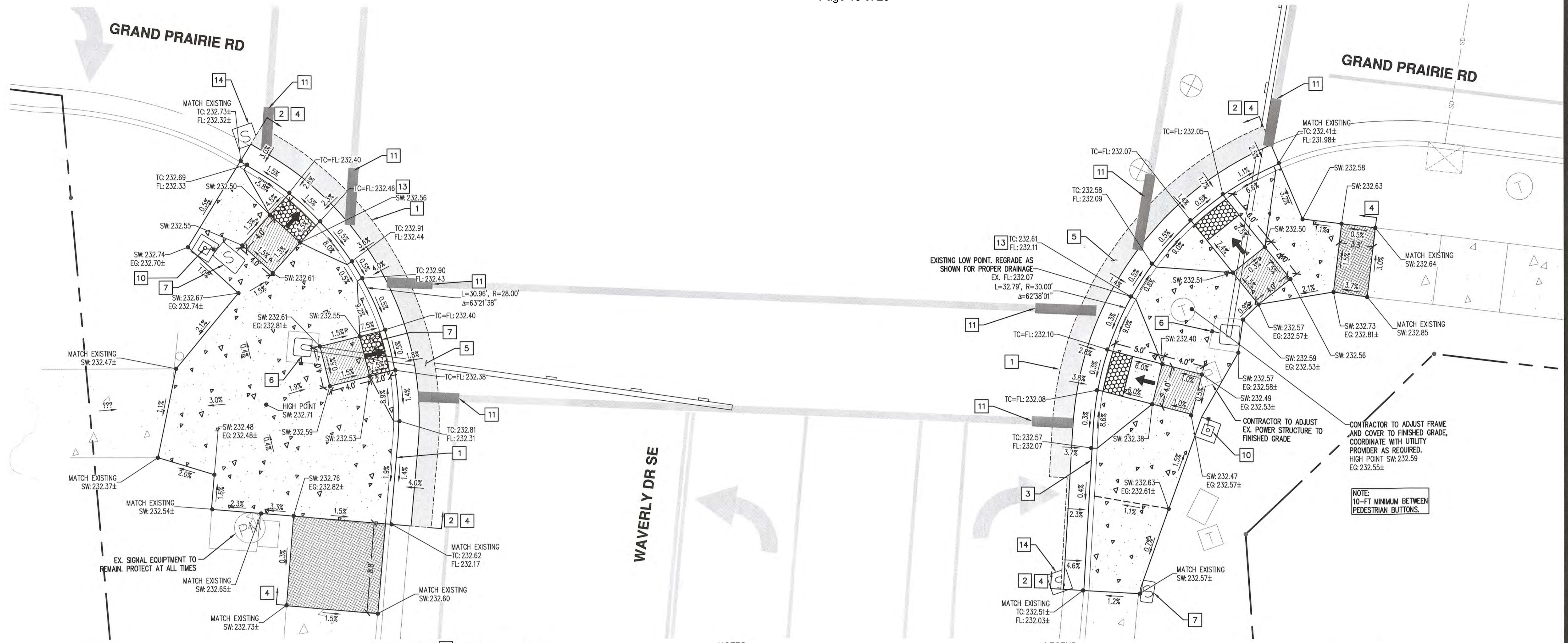
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REVISIONS

Rev.	By:	Des.

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

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



CR-15

CR-16

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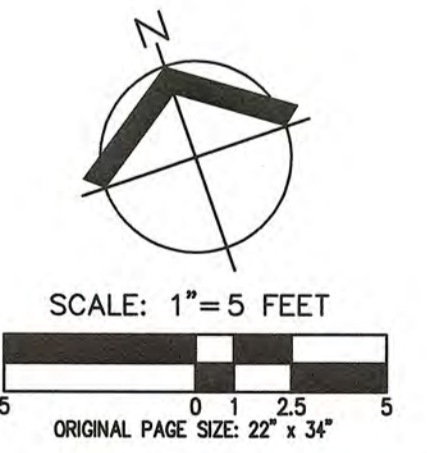
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 - CROSS SLOPE TRANSITION PANEL
 - DETECTABLE WARNING SURFACE (2-FT MIN FROM BACK OF CURB)
 - ASPHALT PATCH
 - PEDESTRIAN POLE AND BASE
 - PUSH BUTTON

CONTRACTOR TO ADJUST FRAME AND COVER TO FINISHED GRADE, COORDINATE WITH UTILITY PROVIDER AS REQUIRED. HIGH POINT SW: 232.59 EG: 232.55±

CONTRACTOR TO ADJUST EX. POWER STRUCTURE TO FINISHED GRADE

NOTE:
10-FT MINIMUM BETWEEN PEDESTRIAN BUTTONS.



REVISIONS

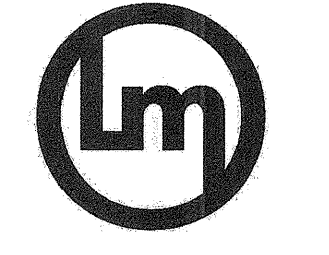
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**ALBANY A.R.T.S. UPGRADES
CURB RETURN**

Job No. AKS JOB #8232
Designed By: RCW
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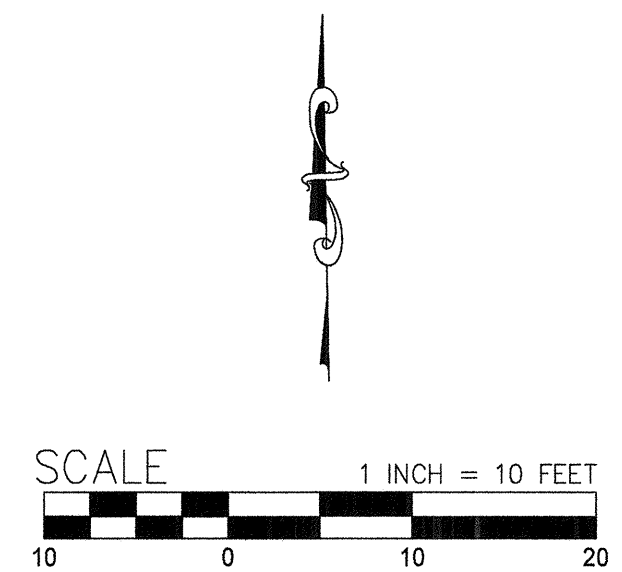


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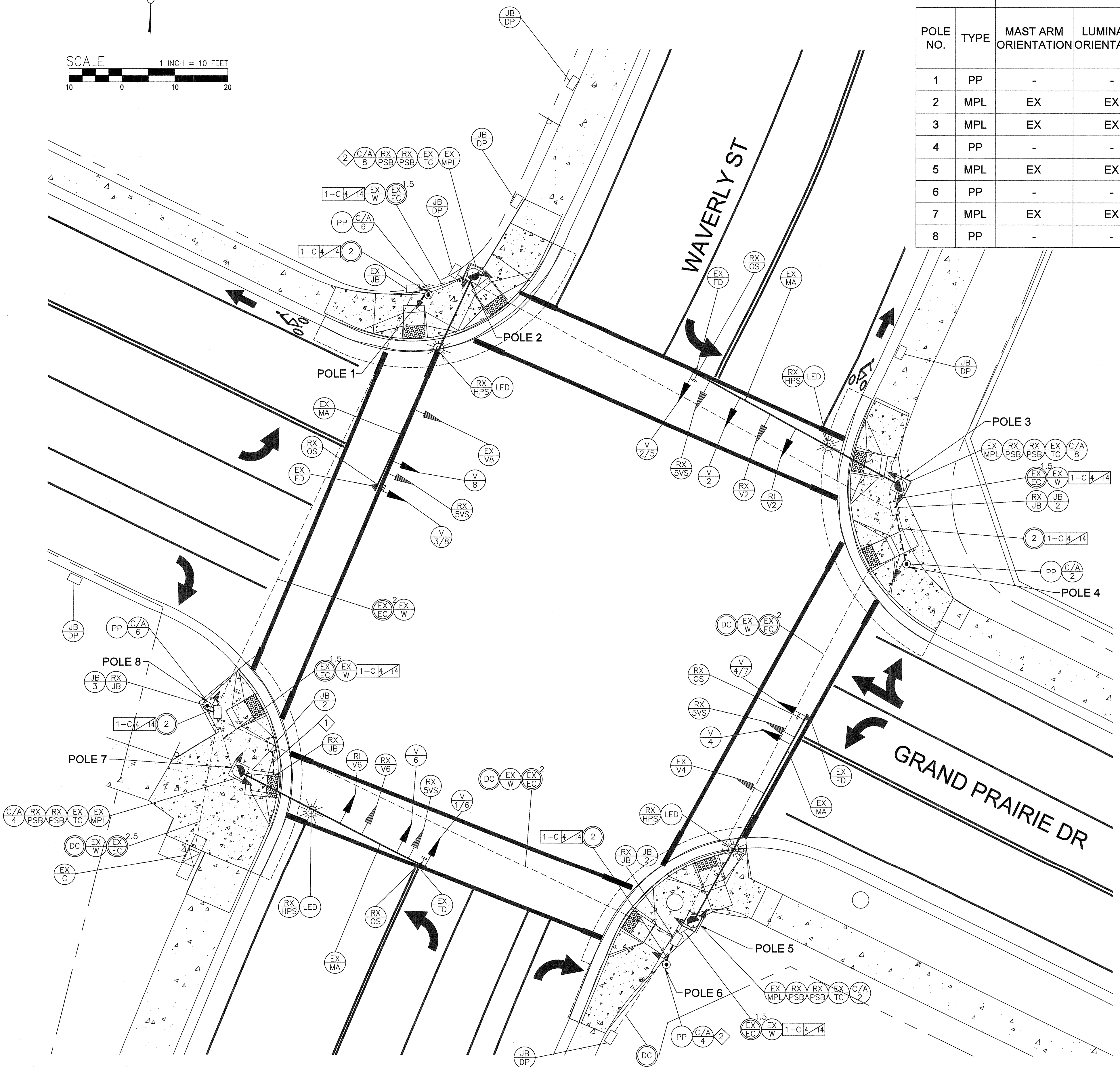
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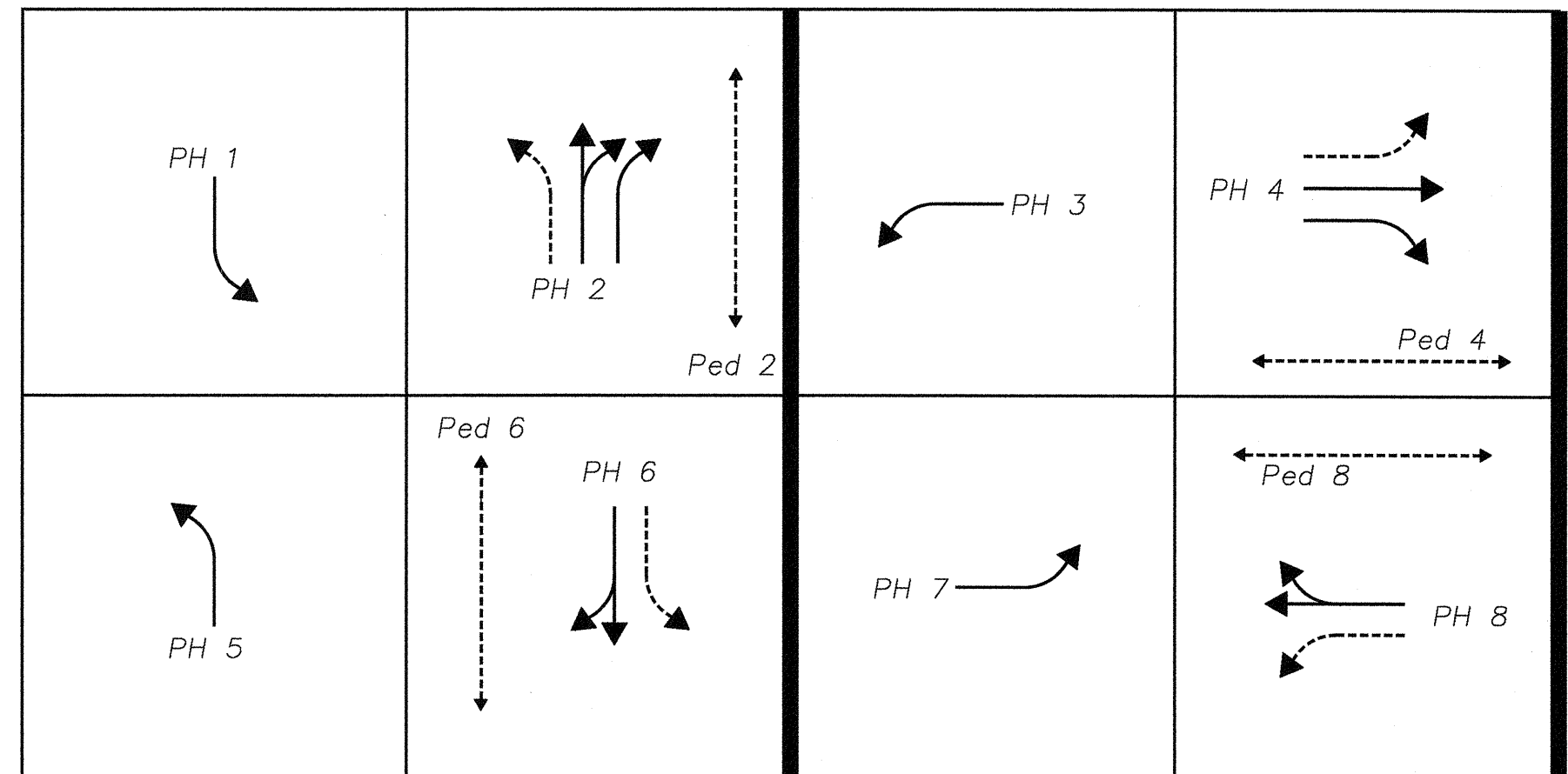
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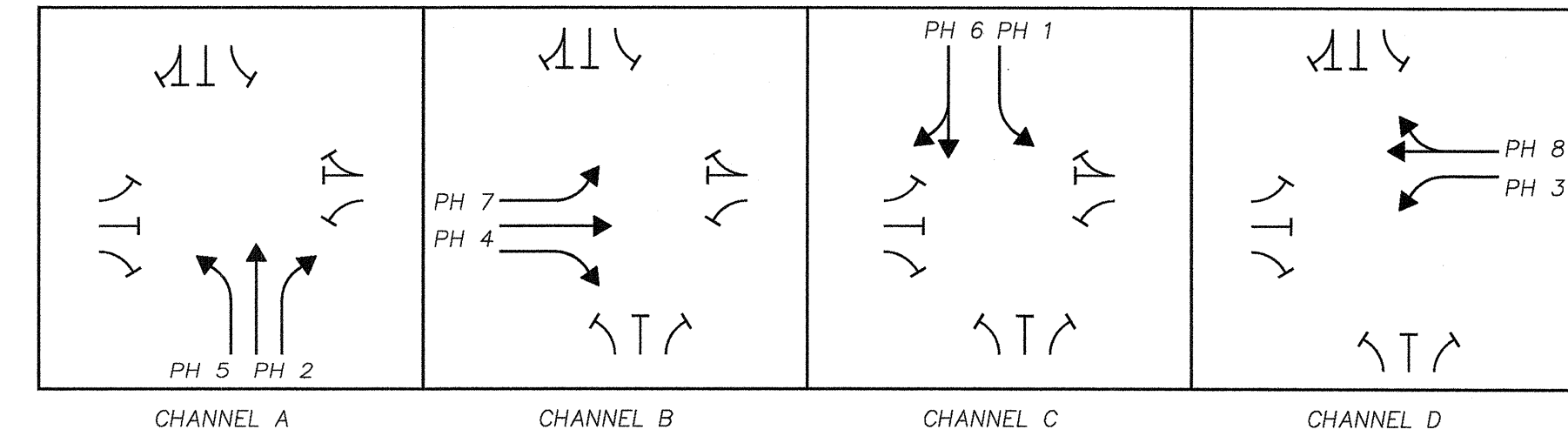
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3	MPL	EX	EX	EX	270	90	45	0	0.5	10.5	22.5
4	PP	-	-	-	0	0	-	-	-	-	-
5	MPL	EX	EX	EX	270	270	45	0	0.5	6.5	EX
6	PP	-	-	-	0	0	-	-	-	-	-
7	MPL	EX	EX	EX	90	90	40	0	0.5	6.5	18.5
8	PP	-	-	-	0	0	-	-	-	-	-



NORMAL PHASE ROTATION DIAGRAM



FIRE PREEMPTION DIAGRAM



CONSTRUCTION NOTES

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

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

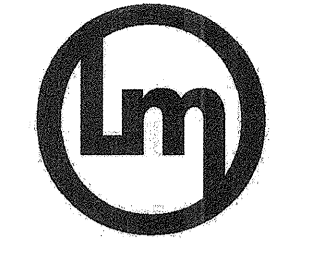
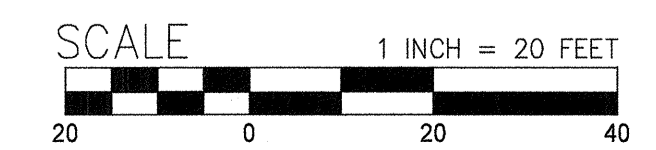
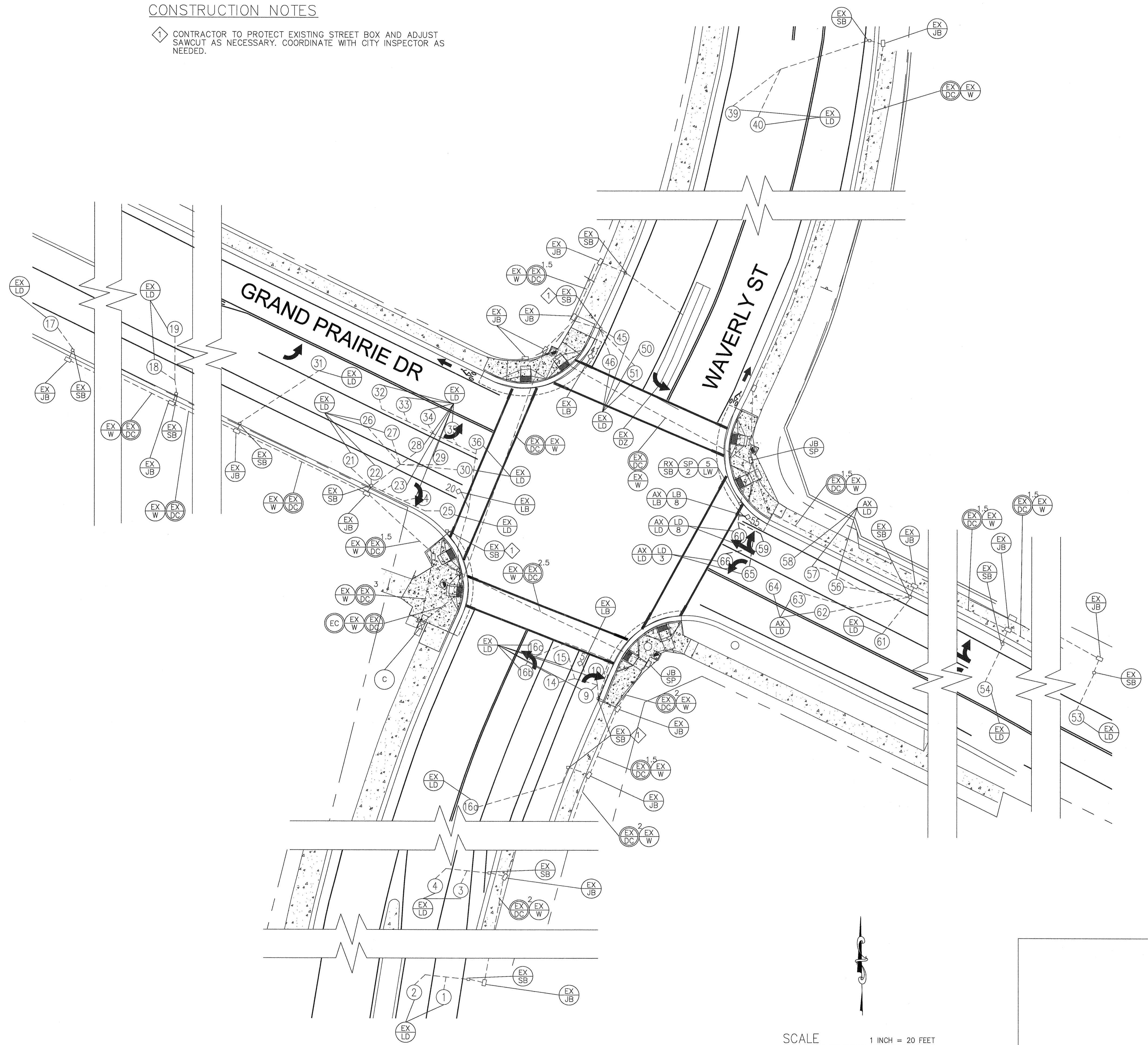
LOOP/RADAR WIRING DIAGRAM

LOOP/ ZONE #	DISTANCE/ DETECTION ZONE LOCATION* (FEET)	PHASE	BIU/ SLOT	ATC MAXTIME #
1	320	2	E, C, CO	I2U
2	320			
3	160	2	E, C, CO	I2L
4	160			
5	4	2	E, C, CO	I3U
6	ABANDONED			
7	ABANDONED			
8	ABANDONED			
9	15	2	E, C, CO	I3L
10	5			
11	ABANDONED			
12	ABANDONED			
13	ABANDONED			
14	15	2	E, C, CO	I4U
15	5			
16a	75	5	E, C, CO	J1U
16b	15			
16c	5			
17	320	4	E, C, CO	I6U
18	160			
19	160	4	E, C, CO	I6L
20	4			
21	49	4	E, C, CO	I7U
22	38			
23	27	4	E, C	I7L
24	16			
25	5	4	E, C	I8U
26	49			
27	38	4	E, C	I8U
28	27			
29	16	4	E, C	I8U
30	5			
31	76	7	E, C, CO	J6U
32	49			
33	38	7	E, C	J9L
34	27			
35	16	7	E, C	J9L
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	I9U
53	320	8	E, C, CO	J6U
54	160			
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	I5U
62	ABANDONED			
63	ABANDONED			
64	ABANDONED			
65	16	3	E, C	I9L
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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(503)-248-0313
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EXPIRES 12/31/2022

REVISIONS	Rev:	Des:	By:

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

Job No. 20100
Designed By: JLH
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