

INVITATION TO BID #2018-39 Hwy 224 at Springwater Road Signal Installation ADDENDUM NUMBER 1 May 7, 2018

On April 19, 2018, Clackamas County ("County") published Invitation to Bid #2018-39 ("BID"). The County has found that it is in its interest to amend the BID through the issuance of this Addendum #1. Except as expressly amended below, all other terms and conditions of the original BID shall remain unchanged.

1. In the Special Provision, page iii (3), in the Table of Contents, SECTION 00294 - CONTAMINATED MEDIA...(pg.46) was omitted.

Please Note; SECTION 00294 - CONTAMINATED MEDIA is part of the Special Provisions.

2. In Section 00130 of the Standard Specifications, modify as follows; **00130.90 Notice to Proceed-** Delete the first paragraph and replace with the following;

Notice to proceed only allows the contractor limited access to the site. Due to another adjacent project, the worksite will not be fully available to the contractor until September 1st. This other project is reconstruction of the approaches to the Springwater Rd. (Carver) Bridge. If Contractor chooses to work prior to September 1st, contractor will need to coordinate work zone traffic control with the Bridge Approach contractor who will have work zone access control till September 1st.

In Section 00150 of the Standard Specifications, modify as follows;
 00150.55 Cooperation with Other Contractors- Delete the last paragraph and replace with the following;

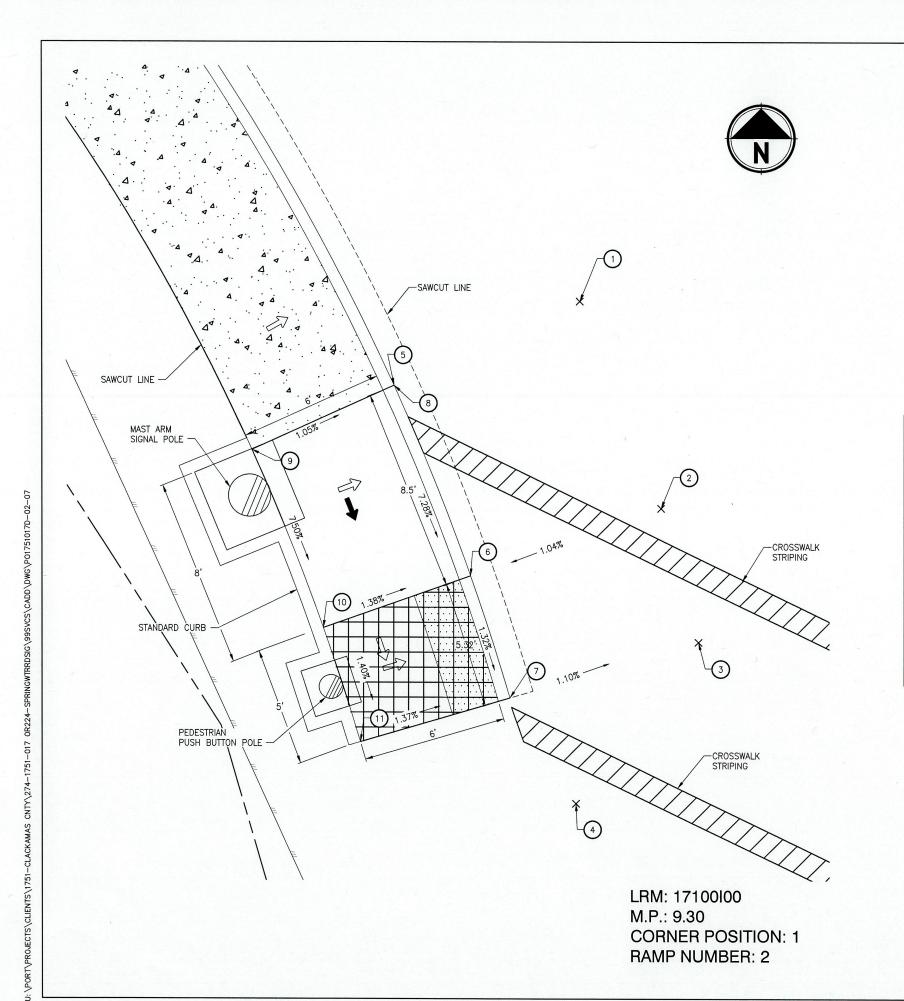
Due to another adjacent project, the worksite will not be fully available to the contractor until September 1st. This other project is reconstruction of the approaches to the Springwater Rd. (Carver) Bridge. If Contractor chooses to work prior to September 1st, contractor will need to coordinate work zone traffic control with the Bridge Approach contractor who will have work zone access control till September 1st.

The following changes are made to the Project Plans:

Plan sheets No. 2B-4, 2B-5, 2B-6, 2B-7, 2B-8, ST, TS01, TS02, TS03, TS04 and TS05 are replaced with the attached revised plan sheets No. 2B-4, 2B-5, 2B-6, 2B-7, 2B-8, ST, TS01, TS02, TS03, TS04 and TS05 all dated 04/25/20183

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

Attachments: New Plan Sheets No. 2B-4, 2B-5, 2B-6, 2B-7, 2B-8, ST, TS01, TS02, TS03, TS04 and TS05 all dated 04/25/20183







TURNING SPACE



MARKED CROSSING LOCATION



TRUNCATED DOME DETECTABLE WARNING SURFACE



SLOPE 1.5% MAX



SLOPE 7.5% MAX.

CONSTRUCTION NOTES:

- 1. SLOPES HOLD OVER ELEVATIONS
- 2. SEE STD. DWG. RD754 FOR DETAILS NOT SHOWN
- 3. SEE SHEET 2B-2 FOR CURB DETAIL

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
1	12+15.45	18.45' RT.	141.75'	FG SPOT ELEVATION
2	12+22.76	23.28' RT.	141.39'	FG SPOT ELEVATION
3	12+26.88	26.89' RT.	141.14'	FG SPOT ELEVATION
4	12+26.62	35.34' RT.	140.71'	FG SPOT ELEVATION
5	12+11.86	26.01' RT.	141.34'	CURB FL
6	12+18.52	30.3' RT.	141.30'	CURB FL/TOP OF CURB (TOC)
7	12+22.39	33.39' RT.	141.23'	CURB FL/TOP OF CURB (TOC)
8	12+11.86	26.01' RT.	141.92'	TOP OF CURB (TOC)
9	12+09.26	31.83' RT.	141.99'	BACK OF WALK
10	12+15.39	35.76' RT.	141.39'	BACK OF WALK
11)	12+18.98	38.59' RT.	141.32'	BACK OF WALK



Parametrix



OR 224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY RAMP DETAILS

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
AND DEVELOPMENT
150 BEAVERCREK ROAD
OREGON CITY, OR 97045

DESIGNED BY:
JP
DRAFTED BY:
MS
CHECKED BY:
STAFF

REVISIONS

Sheet No. 2B-4

SIDEWALK



TURNING SPACE



MARKED CROSSING LOCATION



TRUNCATED DOME DETECTABLE WARNING SURFACE



SLOPE 1.5% MAX



SLOPE 7.5% MAX.

CONSTRUCTION NOTES:

- 1. SLOPES HOLD OVER ELEVATIONS
- 2. SEE STD. DWG. RD754 FOR DETAILS NOT SHOWN
- 3. SEE SHEET 2B-2 FOR CURB DETAIL

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
1	12+73.94	18' LT.	142.94'	CURB FL
2	12+73.94	12' LT.	143.17'	FG SPOT ELEVATION
3	12+79.48	12' LT.	143.38'	FG SPOT ELEVATION
4	12+86.14	12' LT.	143.63'	FG SPOT ELEVATION
5	12+91.78	12' LT.	143.85'	FG SPOT ELEVATION
9	12+97.03	12' LT.	144.06'	SAWCUT
7	12+79.48	18' LT.	143.14'	CURB FL
8	12+86.14	18' LT.	143.54'	CURB FL/TOP OF CURB (TOC)
9	12+91.78	18' LT.	143.61'	CURB FL/TOP OF CURB (TOC)
10	12+79.48	18' LT.	143.72'	TOP OF CURB (TOC)
1	12+79.48	24.5' LT.	143.81'	BACK OF WALK
12	12+86.14	24.5' LT.	143.58'	BACK OF WALK
13	12+91.78	24.5' LT.	143.65'	BACK OF WALK

OREGON

EXPIRES: 12/31/18

Parametrix

OR 224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY

RAMP DETAILS

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
AND DEVELOPMENT
150 BEAVERCREEK ROAD
OREGON CITY, OR 97045

CLACKAMAS
COUNTY
M. BARBARA CAI

DESIGNED BY:

UP
DRAFTED BY:

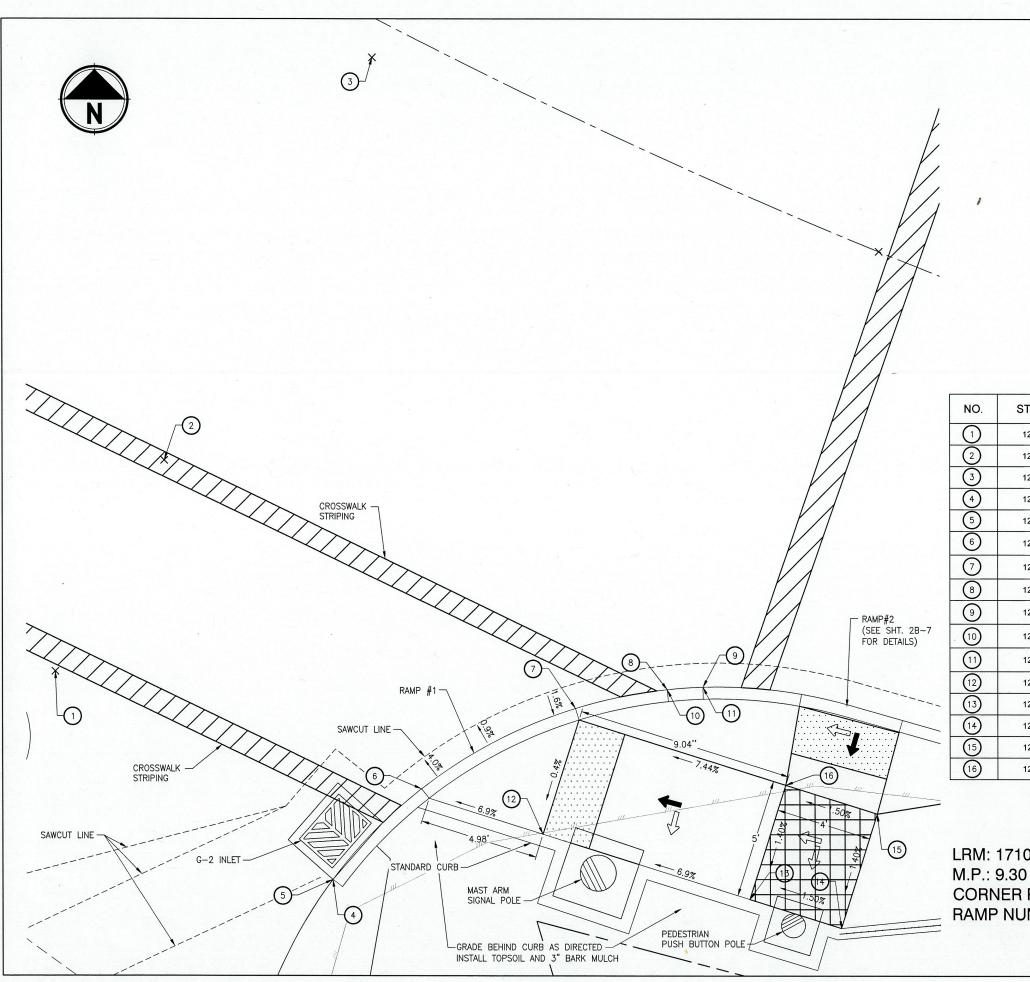
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STAFF

REVISIONS
DENDUM #1 - SHEET REVISED

NO. DATE:

et No. 2B-5



SIDEWALK



MARKED CROSSING LOCATION



TRUNCATED DOME DETECTABLE WARNING SURFACE



SLOPE 1.5% MAX



SLOPE 7.5% MAX.

CONSTRUCTION NOTES:

- 1. SLOPES HOLD OVER ELEVATIONS
- 2. SEE STD. DWG. RD756 FOR DETAILS NOT SHOWN
- 3. SEE SHEET 2B-2 FOR CURB DETAIL

	NO.	STATION	OFFSET	ELEV.	DESCRIPTION
	1	12+61.58	30.32' RT.	140.15	FG SPOT ELEVATION
	2	12+61.58	20.42' RT.	141.46'	FG SPOT ELEVATION
	3	12+61.58	1.50' RT.	142.75'	FG SPOT ELEVATION
	4	12+74.17	33.08' RT.	140.83'	TOP OF CURB (TOC)
	5	12+74.17	33.08' RT.	141.41'	CURB FL
	6	12+75.79	28.11' RT.	142.08'	CURB FL/TOP OF CURB (TOC)
	7	12+79.90	22.46' RT.	142.44'	CURB FL/TOP OF CURB (TOC)
	8	12+82.87	20.25' RT.	142.82'	CURB FL
	9	12+84.12	19.59' RT.	142.97'	CURB FL
	. (10)	12+82.87	20.25' RT.	143.07'	TOP OF CURB (TOC)
	11	12+84.12	19.59' RT.	143.22'	TOP OF CURB (TOC)
	12	12+80.64	27.83' RT.	142.43'	BACK OF WALK
_	13	12+88.76	27.10' RT.	143.05'	BACK OF WALK
_	14)	12+92.36	26.87' RT.	143.11'	BACK OF WALK
-	15)	12+92.14	21.88' RT.	143.18'	GRADE BREAK
	(16)	12+88.47	22.11' RT.	143.12'	GRADE BREAK

LRM: 17100100

CORNER POSITION: 2 RAMP NUMBER: 1

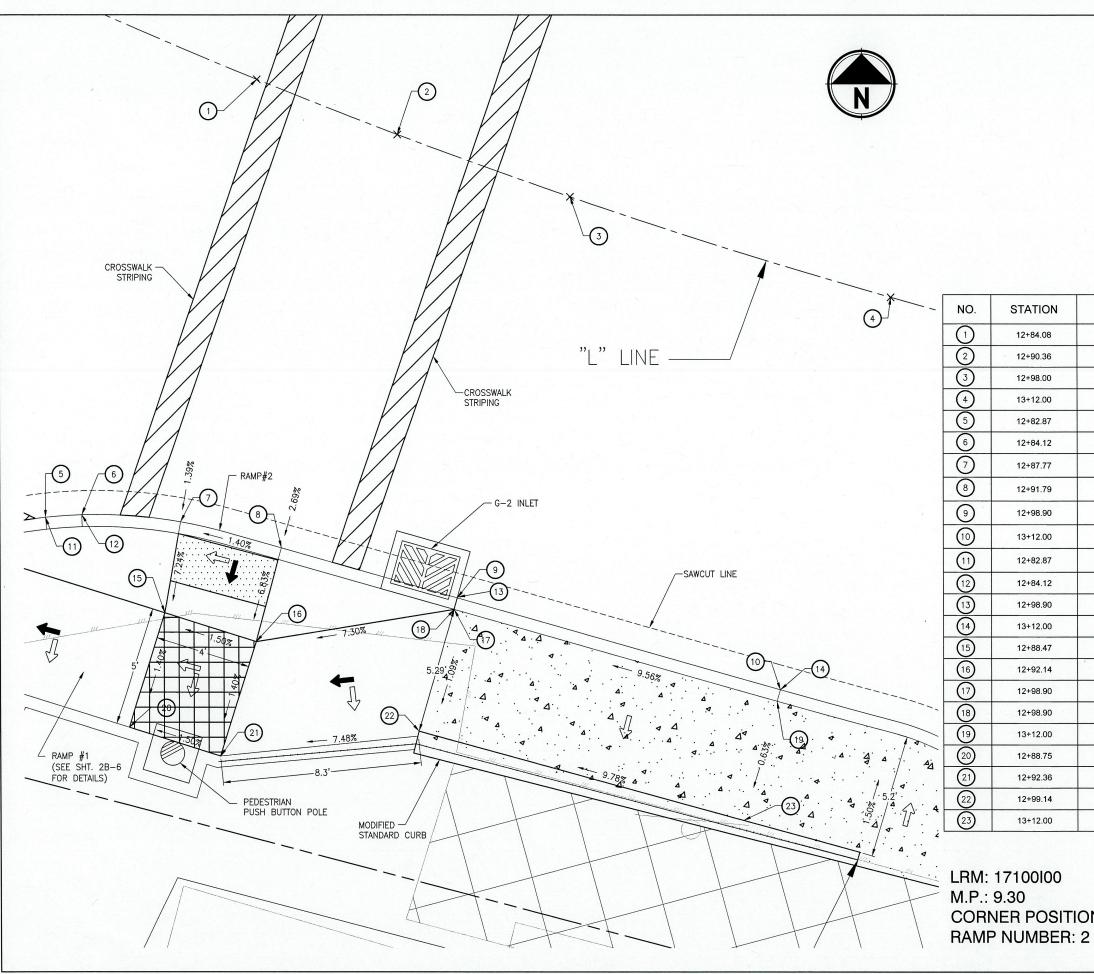
Parametrix



OR 224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY RAMP DETAILS CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
AND DEVELOPMENT
150 BEAVERCREK ROAD
OREGON CITY, OR 97045 ACTING DIRECTOR

REVISIONS 2B-6

DRAFTED BY: MS



SIDEWALK



TURNING SPACE



MARKED CROSSING LOCATION



TRUNCATED DOME DETECTABLE WARNING SURFACE



SLOPE 1.5% MAX



SLOPE 7.5% MAX.

CONSTRUCTION NOTES:

- 1. SLOPES HOLD OVER ELEVATIONS
- 2. SEE STD. DWG. RD754 FOR DETAILS NOT SHOWN
- 3. SEE SHEET 2B-2 FOR CURB DETAIL

-	NO.	STATION	OFFSET	ELEV.	DESCRIPTION
	1	12+84.08	0'	143.65'	FG SPOT ELEVATION
	2	12+90.36	0'	143.91'	FG SPOT ELEVATION
	3	12+98.00	0'	144.22'	FG SPOT ELEVATION
	4	13+12.00	0'	144.81'	FG SPOT ELEVATION
	5	12+82.87	20.25' RT.	142.82'	CURB FL
	6	12+84.12	19.59' RT.	142.97'	CURB FL
	7	12+87.77	18.33' RT.	143.37'	CURB FL/TOP OF CURB (TOC)
	8	12+91.79	17.85' RT.	143.43'	CURB FL/TOP OF CURB (TOC)
	9	12+98.90	17.35' RT.	143.71'	CURB FL
	(<u>1</u>)	13+12.00	17.00' RT.	144.54'	CURB FL
	1	12+82.87	20.25' RT.	143.07'	TOP OF CURB (TOC)
	12	12+84.12	19.59' RT.	143.22'	TOP OF CURB (TOC)
	13	12+98.90	17.35' RT.	144.29'	TOP OF CURB (TOC)
	14	13+12.00	17.00' RT.	145.12'	TOP OF CURB (TOC)
	(5)	12+88.47	22.11' RT.	143.12'	GRADE BREAK
	(<u>6</u>)	12+92.14	21.88' RT.	143.18'	GRADE BREAK
	(7)	12+98.90	17.85' RT.	144.30'	BACK OF CURB
``	18	12+98.90	17.85' RT.	143.79'	WALK
\	(9)	13+12.00	17.5' RT.	145.13'	BACK OF CURB/WALK
44	20	12+88.75	27.1' RT.	143.05'	BACK OF WALK
7	21	12+92.36	26.87' RT.	143.11'	BACK OF WALK
4	22	12+99.14	23.13' RT.	143.73'	BACK OF WALK
	23	13+12.00	22.72' RT.	145.09'	BACK OF WALK

LRM: 17100100

CORNER POSITION: 2

Parametrix



REVISIONS Sheet No.

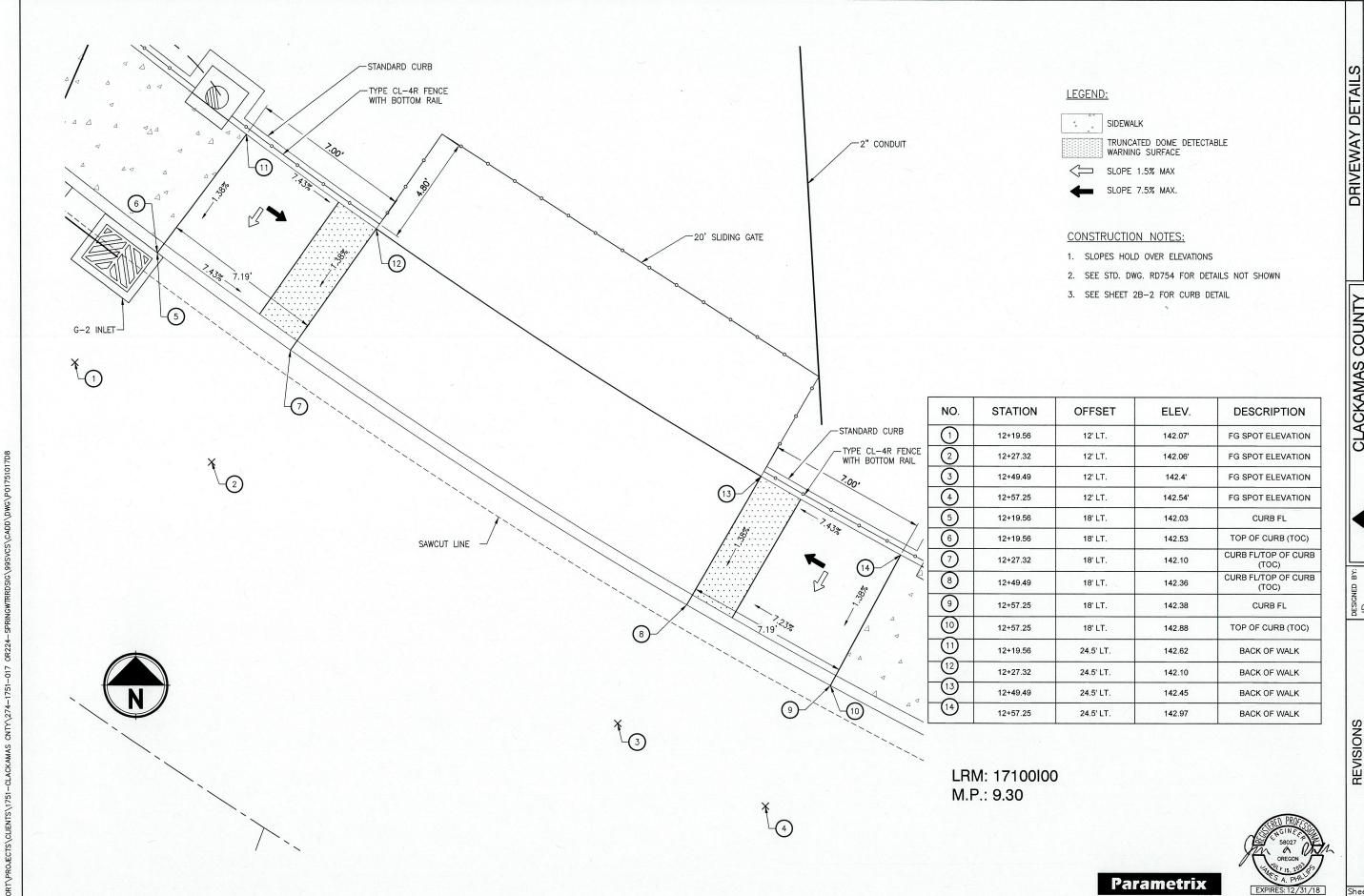
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MS
CHECKED BY:
STAFF

OR 224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
AND DEVELOPMENT
150 BEAVERCREK ROAD
OREGON CITY, OR 97045

RAMP DETAILS

2B-7



OR 224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY

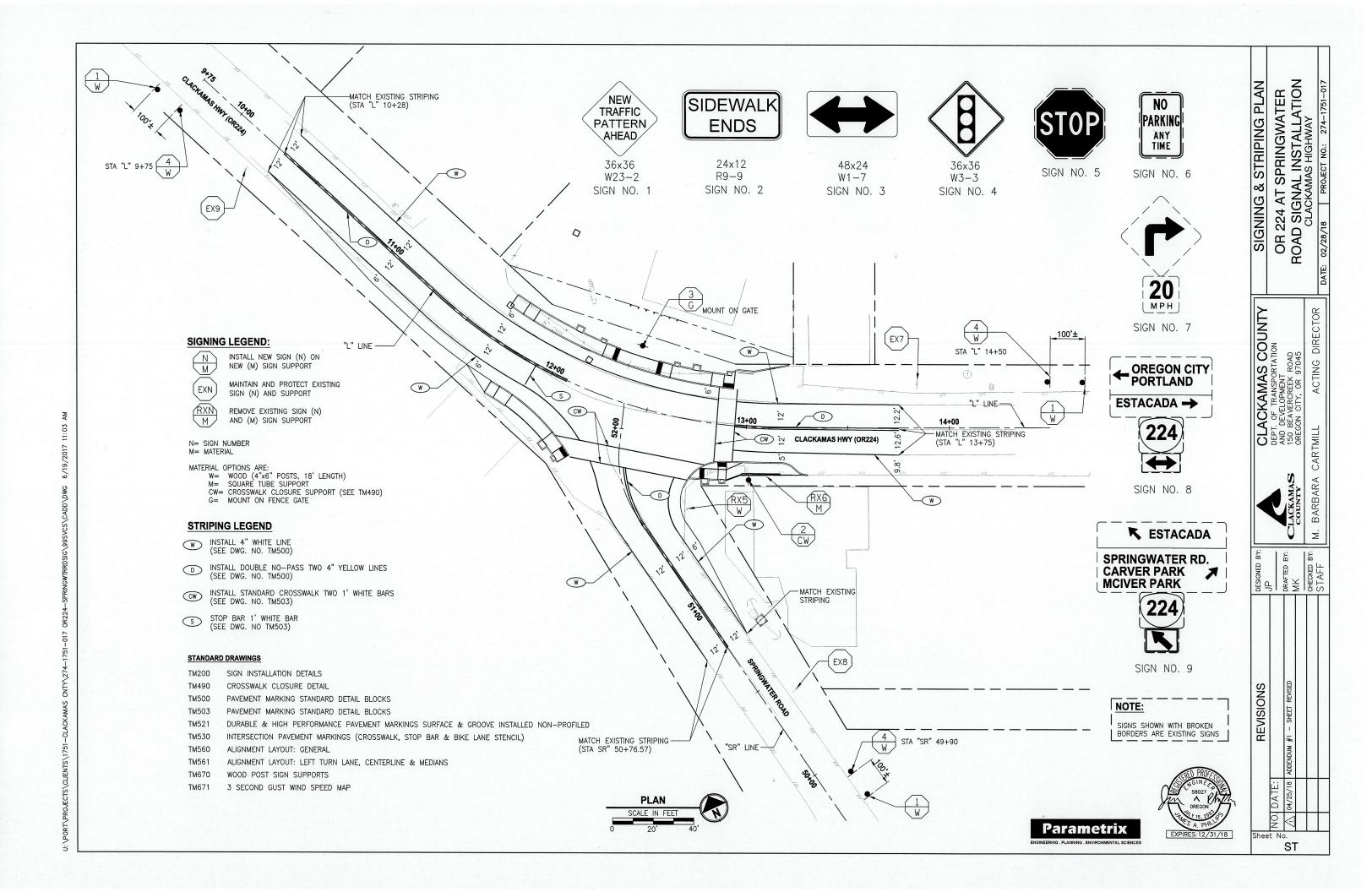
CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION
150 BEAVERCREK ROAD
OREGON CITY, OR 97045

DIRECTOR

BY: DRAFTED E MS CHECKED I

REVISIONS

2B-8



INSTALL INTELIGHT MODEL ATC CONTROLLER PART NUMBER (C) ATC 2070-LDX IN MODEL 332S CABINET.

(c) INSTALL CONTROLLER CABINET (SEE SIGNAL PLAN).

INSTALL RADAR CABINET INTERFACE DEVICE.

INSTALL (T=TYPE) STANDARD TRAFFIC SIGNAL MAST ARM POLE (SEE "POLE ENTRANCE CHART" ON SHEET TS-04).

INSTALL (L=LENGTH) FOOT TRAFFIC SIGNAL MAST ARM.

LA INSTALL (L) FT. LUMINAIRE ARM.

INSTALL PEDESTRIAN SIGNAL PEDESTAL WITH FRANGIBLE (PP)

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8:29

4/26/2018

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Signal

Springwater

OR224

X: \Projects\2013\P13211-000 (Carver

(LED) INSTALL LED LUMINAIRE ON LUMINAIRE ARM.

INSTALL PHOTO ELECTRONIC CONTROL RELAY INSIDE SERVICE CABINET. SEE STD. DWG. NO. TM465.

SIGNALS

INSTALL PHASE (Ph) VEHICLE SIGNAL WITH RED, AMBER AND GREEN LEDS.

INSTALL PHASE (Ph) PEDESTRIAN SIGNAL WITH LED COUNTDOWN TIMER INCLUDE PHASE (Ph) AUDIBLE PEDESTRIAN SIGNAL. (SEE "POLE ENTRANCE CHART", DETAIL SHEET TS-04, STANDARD DWG. TM467, AND SPECIAL PROVISIONS).

INSTALL PHASE (Ph) PEDESTRIAN SIGNAL WITH LED COUNTDOWN TIMER. (SEE "POLE ENTRANCE CHART", DETAIL SHEET TS-04, STANDARD DWG. TM467, AND SPECIAL PROVISIONS).

INSTALL PHASE (Ph) AUDIBLE PEDESTRIAN SIGNAL. (SEE "POLE ENTRANCE CHART", DETAIL SHEET TS-04, STANDARD DWG. TM467, AND SPECIAL PROVISIONS).

FIRE PREEMPTION

INSTALL CHANNEL (Ch=CHANNEL), (N=NUMBER) BARREL FIRE PREEMPTION DETECTOR UNIT.

INSTALL CHANNEL (Ch=CHANNEL) FIRE PREEMPTION DETECTOR FEEDER CABLE.

CABINETS

INSTALL RECESSED TERMINAL CABINET. (SEE SHEET TS07 AND TS08).

INSTALL BASE MOUNTED SERVICE CABINET, 120/240 VOLT METERED, FOR SIGNAL AND SIGNAL POLE MOUNTED ILLUMINATION SYSTEMS.

HEADS AND BRACKETS

2 = 12"R. 12"Y. 12"G B = ADJUSTABLE SIGNAL BRACKET ASSEMBLY WITH RAIN CAP(S) (INSTALL 1" GALVANIZED CHASE NIPPLE)

SIGNS

INSTALL CROSSWALK CLOSURE BARRICADES WITH SIGNS (BOTH (CW) SIDES OF BARRICADE).

INSTALL STREET NAME SIGN (N) ON MAST ARM. SEE TSO4 FOR SIGN DETAILS.

INSTALL (X=NUMBER OF CABLES) CONTROL CABLE(S) WITH (N=NUMBER) (G=AWG WIRE SIZE) AWG CONDUCTORS.

INSTALL RADAR CONTROL CABLE (T=RADAR).

LF X-Ph INSTALL (X=NUMBER OF CABLES) PHASE (Ph=PHASE) LOOP FEÈDER CABLES.

INSTALL (N=NUMBER) NO. (G=AWG WIRE SIZE) XHHW

JUNCTION BOXES

INSTALL 17"x10"x12" (MIN. DIMENSION) PRECAST (JB 1A) CONCRETE JUNCTION BOX.

INSTALL 22"x12"x12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOX.

INSTALL TANDEM 30"x17"x12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOXES (SEE TM472 FOR DETAILS).

JUNCTION BOX (SEE SIGNAL PLAN).

DETECTION

INSTALL PHASE (Ph=PHASE) 6' ROUND VEHICLE DETECTOR LOOP.

 $\binom{N}{LW}$ INSTALL (N=NUMBER) PAIR OF LOOP WIRES.

INSTALL 6" MAXIMUM SAND POCKET BLOCK-OUT WITH (S=SIZE) INCH CONDUIT TO JUNCTION BOX.

(R-N)INSTALL NEAR-RANGE RADAR DETECTOR UNIT (T=RADAR).

INSTALL PHASE (Ph=PHASE) DETECTION ZONE ON RADAR (PhT) (T-RADAR) WITH MAXTIME DETECTOR NUMBER (X=NUMBER).

CONDUITS

INSTALL (S=SIZE) INCH CONDUIT.

INSTALL CONDUIT AND WIRE AS REQUIRED BY POWER

(EC) ELECTRICAL CONDUIT (SEE SIGNAL PLAN).

(DC) DETECTOR CONDUIT (SEE DETECTOR PLAN).

(HDD) INSTALL CONDUIT BY HORIZONTAL DIRECTION DRILLING.

19783-19789

SIGNAL PLAN LEGEND OR224 AT M.P. 9.30 (CLACKAMAS)

SIGNAL PLAN LEGEND OR224 AT SPRINGWATER ROAD SIGNAL INSTALLATION CLACKAMAS HIGHWAY

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CLACKAMAS

COUNTY

EVISIONS

TS01

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FINIFER L. BACK EXPIRES: DEC. 31, 2019

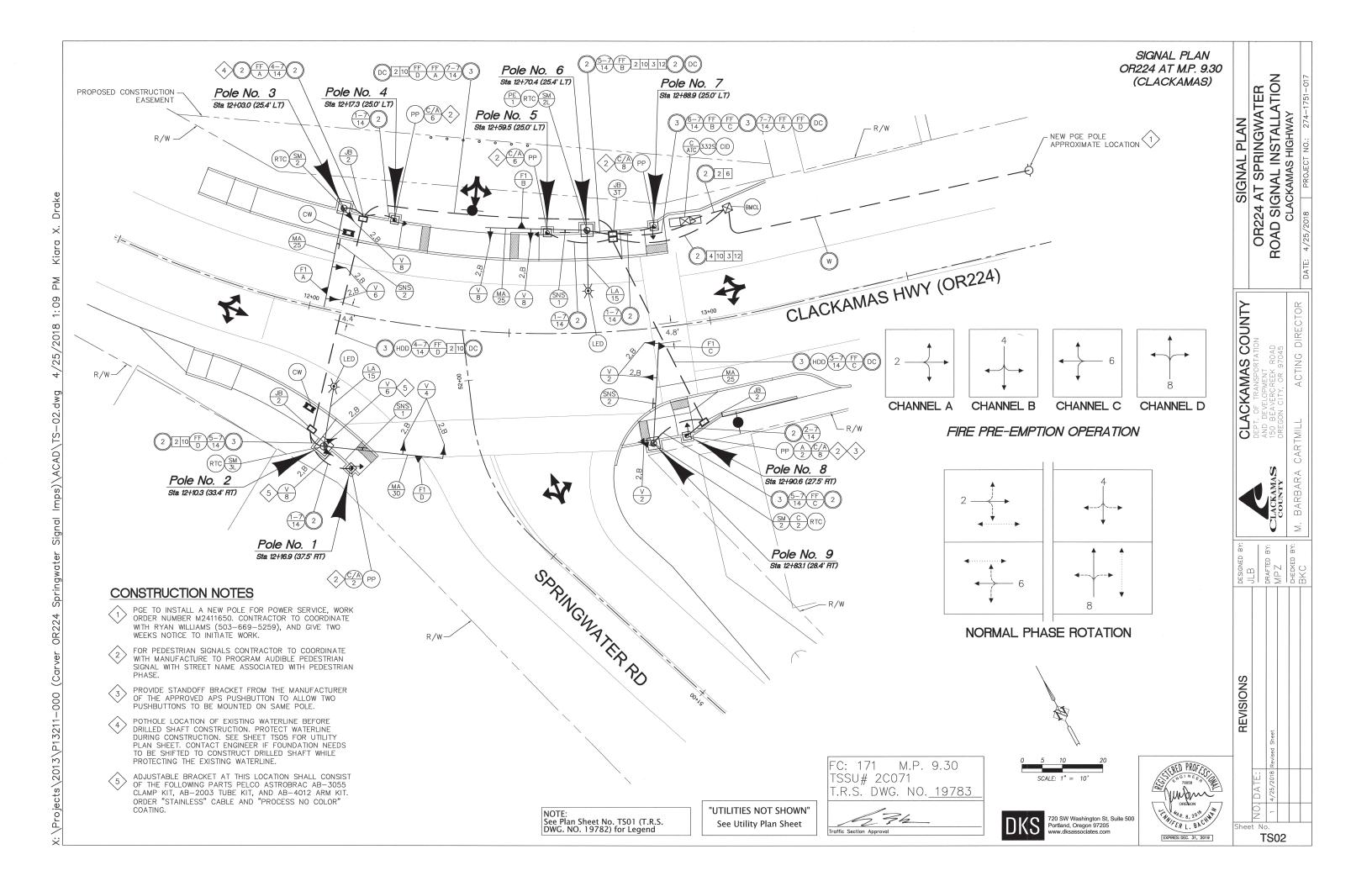
T.R.S. DWG. NO. 19782 Traffic Section Approval

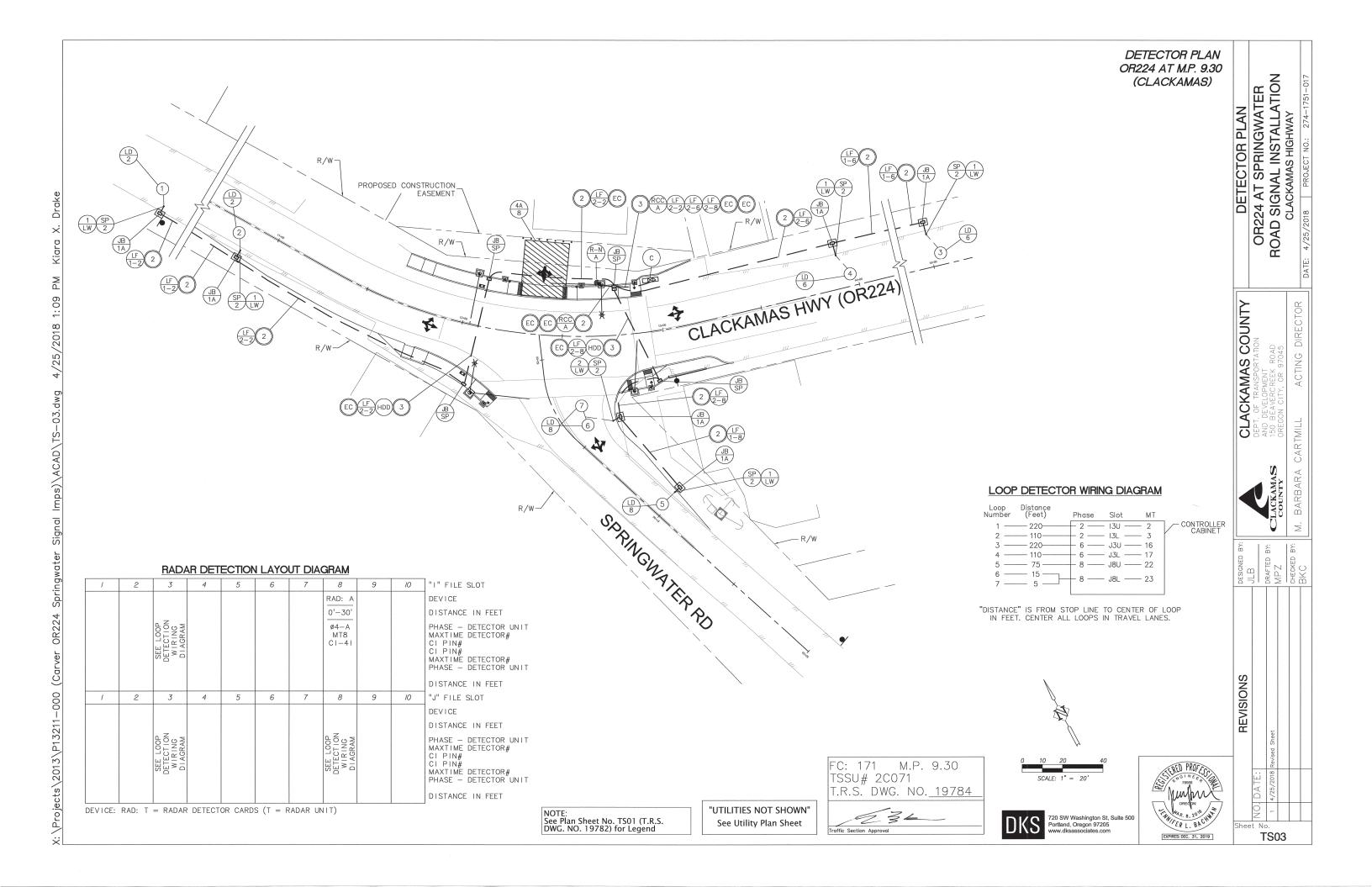
FC: 171 M.P. 9.30

TSSU# 2C071

ACCOMPANIED BY DWGS: TM450, TM457, TM460, TM462, TM465, TM467, TM470, TM472, TM475, TM480, TM482, TM485, TM490, TM650, TM651, TM652, TM653, TM679, AND T.R.S. DWG. NO.

720 SW Washington St, Suite 500 Portland, Oregon 97205 DKS





POLE ENTRANCE CHART

	TOLL ENTITY OF STATE																												
8	SEE ODO STANDAR ORAWING O THRU	RD is				MENT ON					(Length in feet and equipment type)					FOUNDATION INFORMATION (See ODOT Standard Dwg. No. TM653)				NAIRE	E								
POLE NO.	DWG. NO.	TYPE	MAST ARM DEG.	PED. SIGNAL DEG.	VEH. SIGNAL DEG.	BICYCLE PUSHBUTTON DEG.	PED. PUSHBUTTON DEG.	TERM. Cabinet Deg.	RADAR DEG.	PHOTO CELL DEG.	ARM LENGTH	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	FOUNDATION NUMBER	REQUIRED FOUNDATION DEPTH	ARM LENGTH		MOUNTING HEIGHT	ТҮРЕ	TYPE	WATTAGE
1	02	PP		25			25																						
2	02	SM3L			25/340			180	-		30	0.5 V2	F	10.0 V2	20.0 SNS							4	18'	15'	270	30'	LED	3	×
3	02	SM2			315			180	-		25	2.0 V2	4.0 F	10.0 V2	SNS 16.5 SNS							3	12'						
4	02	PP		215			215									***************************************													
5	02	PP		215			215																						
6	02	SM2L						180	30	95	25	1.0 V2	7.5 F	11.0 V2	18.0 SNS							3	19'	15'	270	30'	LED	3	×
7	02	PP		290			290											-											
8	02	PP		290			295/25											-											
9	02	SM2		0	285			90			25	0.5 V2	1.0 F	8.5 V2	16.0 SNS							3	12'						

SIGNAL PLAN DETAILS OR224 AT M.P. 9.30 (CLACKAMAS)

10"C

SIGNAL PLAN DETAILS
OR224 AT SPRINGWATER
ROAD SIGNAL INSTALLATION
CLACKAMAS HIGHWAY

CLACKAMAS COUNTY

ACTING

REVISIONS

heet No. **TS04**

* SEE SPECIFICATIONS FOR APPROVED LUMINAIRES AND WATTAGES. GEO DESIGN PROJECT: CLACKCO-79-01 JAN. 16, 2017

 $\frac{\text{BRACKET MOUNT}}{\text{V2} = \text{TRAFFIC SIGNAL TYPE 2, ADJUSTABLE BRACKET MOUNT (SEE STD. DWG. TM462)}}{\text{SNS} = \text{STREET NAME SIGN}}$

Kiara

4/25/2018

Springwater Signal Imps)\ACAD\TS-04.dwg

OR224

(Carver

X: \Projects\2013\P13211-000

11'-6" Clackamas Hwy

Springwater Rd 12"C

SIGN DETAILS

NORTH ARROW AS IDENTIFIED ON THE DRAWING SPECIFIED IN THE CHART © OF PEDESTRIAN HEAD/ PEDESTRIAN PUSHBUTTON NOTE: EQUIPMENT SHOWN ON THE ORIENTATION DIAGRAM IS A CLARIFICATION OF ANGLES OF EQUIPMENT THAT MAY BE LOCATED ON A PEDESTRIAN PEDESTAL OR VEHICLE PEDESTAL. © OF PEDESTRIAN HEAD/ PEDESTRIAN PUSHBUTTON

> PEDESTRIAN PEDESTAL/VEHICLE PEDESTAL **ORIENTATION DIAGRAM**

171 M.P. 9.30 TSSU# 2C071 .R.S. DWG. NO. <u>19785</u>





Q OF PEDESTRIAN HEAD/ PEDESTRIAN PUSHBUTTON NOTE: EQUIPMENT SHOWN ON ORIENTATION DIAGRAM IS AN EXAMPLE OF DISTANCE AND ANGLES OF EQUIPMENT THAT MAY BE LOCATED ON A MAST ARM OR SIGNAL POLE. −Ç OF TERMINAL CABINET

Q OF PEDESTRIAN HEAD/-PEDESTRIAN PUSHBUTTON

MAST ARM POLE ORIENTATION DIAGRAM

F OF VEHICLE SIGNAL HEAD

EXISTING UTILITY PLAN OR224 AT M.P. 9.30 (CLACKAMAS)

EXISTING UTILITY PLAN
OR224 AT SPRINGWATER
ROAD SIGNAL INSTALLATION
CLACKAMAS HIGHWAY

CLACKAMAS COUNTY

REVISIONS

TS05

EXPIRES: DEC. 31, 2019

CONSTRUCTION NOTES

4/25/2018 1:09 PM

Springwater Signal Imps)\ACAD\TS-05.dwg

X: \Projects\2013\P13211-000 (Carver

EXISTING UNDERGROUND UTILITY CONFLICTS WILL BE RELOCATED BY OTHERS.

FC: 171 M.P. 9.30 TSSU# 2C071 T.R.S. DWG. NO. 19786



