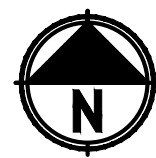
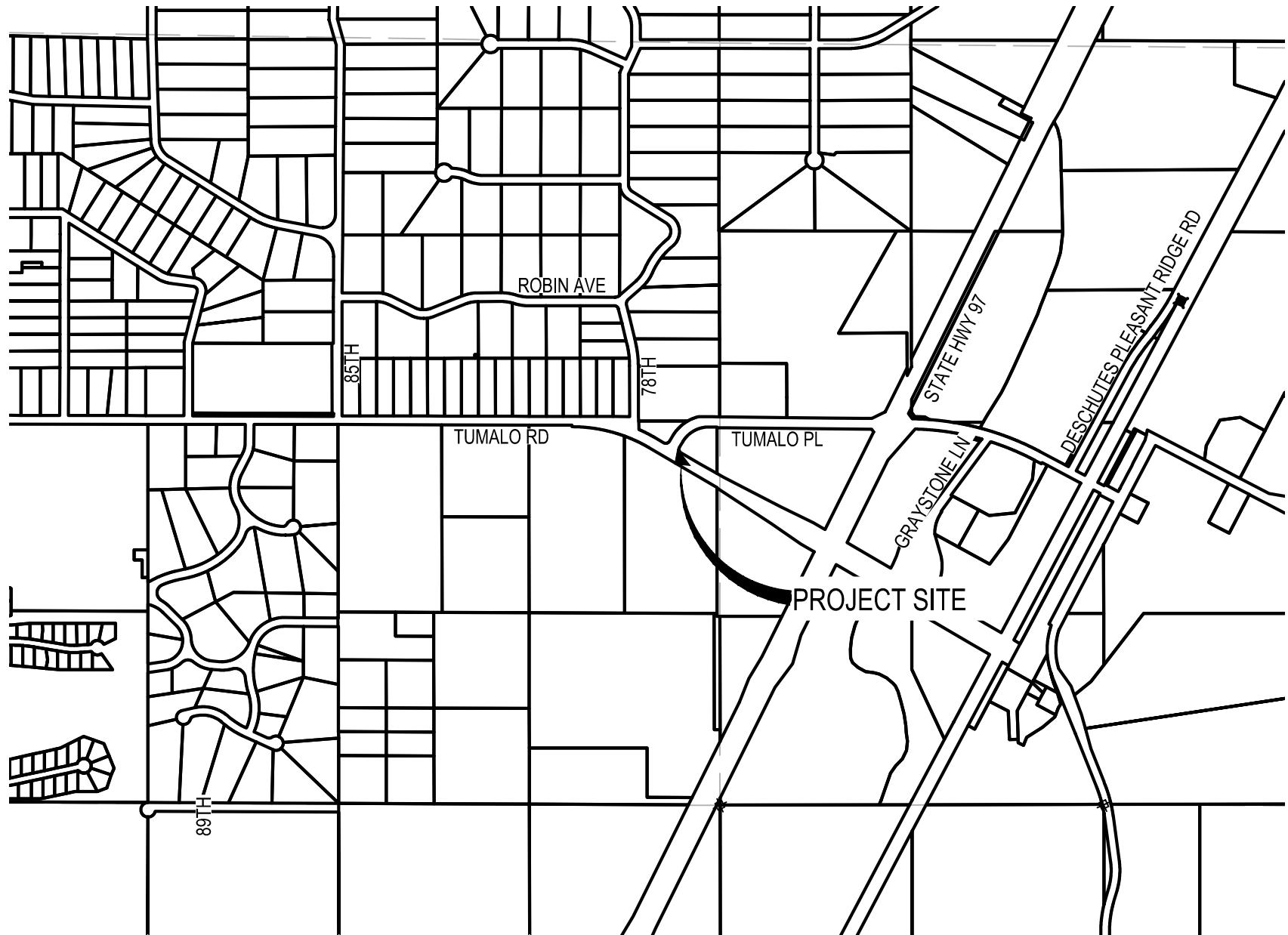


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VICINITY MAP  
1" = 1000'

# DESCHUTES COUNTY ROAD DEPARTMENT TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENT

DESCHUTES COUNTY  
SEPTEMBER 2020

## OWNER

DESCHUTES COUNTY ROAD DEPARTMENT  
61150 SE 27TH  
BEND, OR 97702  
CONTACT: CODY SMITH  
PHONE: (541) 322-7113 (OFFICE)  
EMAIL: cody.smith@deschutes.org

## ENGINEER

PARAMETRIX  
150 NW PACIFIC PARK LANE  
BEND, OREGON 97701  
CONTACT: BARRY JOHNSON, P.E.  
PHONE: (541) 508-7710  
EMAIL: bjohnson@parametrix.com

## SURVEYOR

PARAMETRIX  
150 NW PACIFIC PARK LANE  
BEND, OR 97701  
CONTACT: ANDREW HUSTON  
PHONE: (541) 508-7710  
EMAIL: ahuston@parametrix.com

## SHEET INDEX

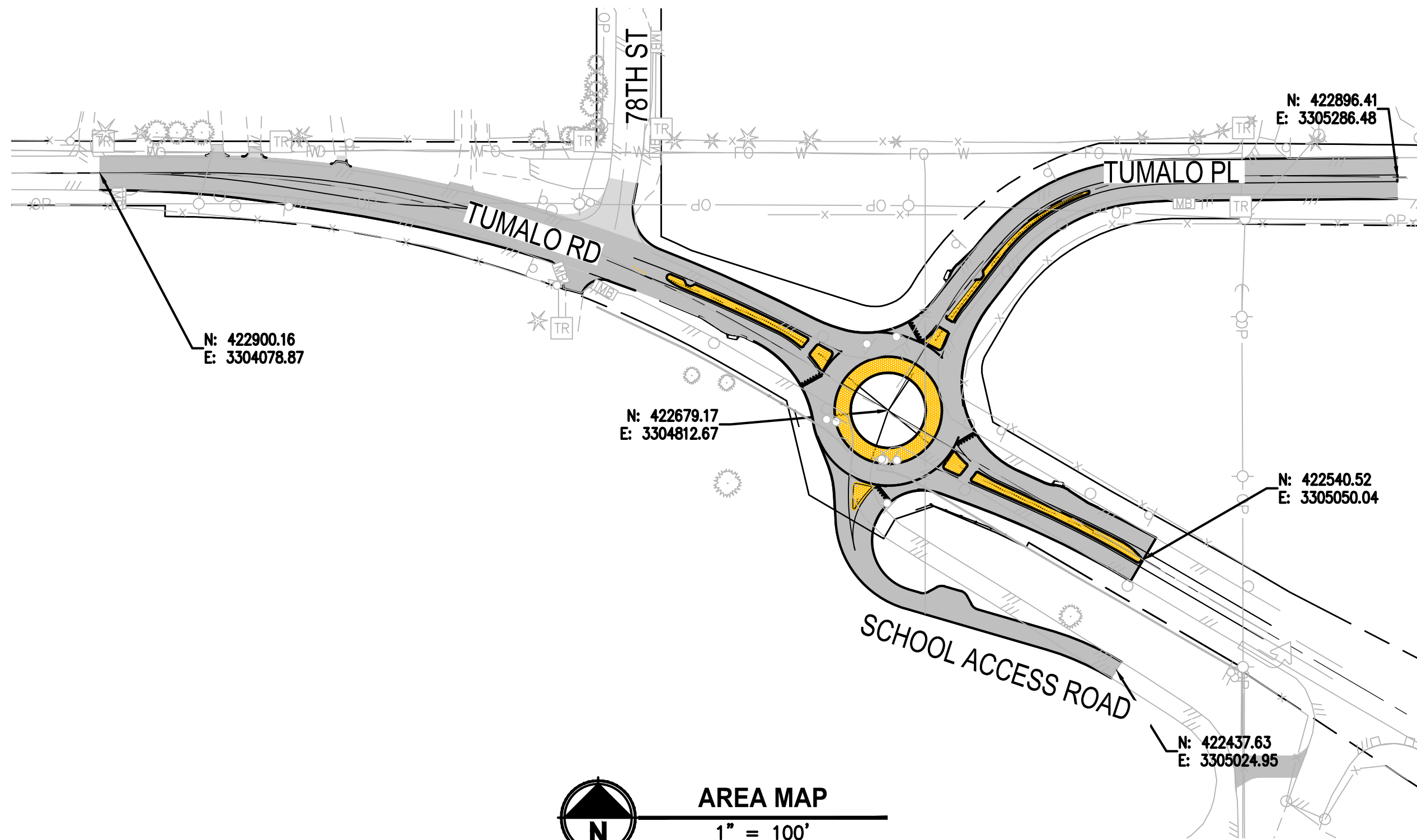
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET	C7.6	NE FLOWLINE - PLAN & PROFILE	SS4	SIGN & POST DATA TABLE
C1.1	GENERAL NOTES	C7.7	SW FLOWLINE - PLAN & PROFILE	SS5	SIGN & POST DATA TABLE
C2.0	TYPICAL SECTIONS	C7.8	SE FLOWLINE - PLAN & PROFILE	SS6	STRIPING PLAN
C2.1	TYPICAL SECTIONS	C7.9	DETOUR ROAD PLAN AND PROFILE	SS7	STRIPING PLAN
C3.0	PAVING INDEX	C8.0	CONSTRUCTION STAGING-STAGE ONE	SS8	SIGNING PLAN
C4.0	DETAILS	C8.1	CONSTRUCTION STAGING-STAGE TWO	SS9	SIGNING PLAN
C5.0	EXISTING CONDITIONS/DEMO PLAN	C8.2	CONSTRUCTION STAGING-STAGE THREE	SS10	TEMPORARY SIGNING PLAN-STAGE 2 & 3
C6.0	GEOMETRY PLAN	C8.3	CONSTRUCTION STAGING-STAGE FOUR	SS11	TEMPORARY SIGNING PLAN-STAGE 4 & 5
C7.0	WEST LEG PLAN & PROFILE	C9.0	SOUNDWALL PLAN AND PROFILE		
C7.1	EAST LEG PLAN & PROFILE	L1.0	LANDSCAPING PLAN		
C7.2	NORTH LEG PLAN & PROFILE	IL1	ILLUMINATION LEGEND		
C7.2.1	NORTH LEG COLD PLANE PLAN	IL2	ILLUMINATION PLAN		
C7.3	SOUTH LEG PLAN & PROFILE	SS1	SIGNING AND STRIPING LEGEND		
C7.4	INNER CIRCLE - PLAN & PROFILE	SS2	EXISTING SIGN DETAILS		
C7.5	NW FLOWLINE - PLAN & PROFILE	SS3	PROPOSED SIGN DETAILS		

## EXISTING LEGEND:

---	FOG LINE STRIPING
---	EDGE OF PAVEMENT
---	EDGE OF GRAVEL
---	ROCKERY
---	WOOD FENCE
---	BARB WIRE FENCE
---	POWER LOCATE MARKING
---	POWER OVERHEAD
---	FIBER OPTIC LOCATE MARKING
---	TELEPHONE LOCATE MARKING
---	WATER LOCATE MARKING
---	RIGHT-OF-WAY LINE
---	CENTER LINE RIGHT-OF-WAY
---	LOT LINE
---	12" WIDE CNC WALL

## PROPOSED LEGEND

---	CURB CUT
---	BIKE RAMP
---	SWALE
---	CURB
---	GRAVEL SHOULDER
---	BARBED WIRE FENCE
---	SAWCUT
---	ASPHALT
---	STAMPED CONCRETE



AREA MAP  
1" = 100'

## GENERAL NOTES:

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED IN THIS CONTRACTS SPECIAL PROVISIONS, BE CONSTRUCTED IN ACCORDANCE WITH THE OREGON STATE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION," REVISED 2018

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332- 2344, PRIOR TO THE START OF CONSTRUCTION, TO LOCATE POWER, GAS, CABLE TV, AND TELEPHONE UNDERGROUND FACILITIES. THE ONE CALL CENTER BUSINESS HOURS ARE 8:00 AM TO 5:00 PM. ANY LOCATE REQUESTS PLACED AFTER 5:00 P.M., WILL BE TREATED AS IF THEY WERE SUBMITTED AT 8:00 A.M. THE FOLLOWING BUSINESS MORNING. THE 2 BUSINESS-DAY (48 BUSINESS HOURS) WAITING PERIOD BEGINS AT THAT TIME. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE PUBLIC AGENCY FOR THE LOCATION OF UNDERGROUND FACILITIES.

ATTENTION: OREGON LAW REQUIRES THAT YOU FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN O.A.R 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER AT 503-232-1987

IT IS THE CONTRACTORS RESPONSIBILITY TO RE-ESTABLISH, PER OREGON REVISED STATUTES, ALL SURVEY MONUMENTS DISTURBED OR DESTROYED BY THIS WORK. THIS INCLUDES MONUMENTS NOT SHOWN IN THESE PLANS, WHICH ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ELEVATIONS OF SIDE SHOT MONUMENTS FOR USE AS TEMPORARY BENCH MARKS AND SET TEMPORARY BENCH MARKS OR ADDITIONAL HORIZONTAL CONTROL AS NEEDED.

UPON AWARD OF THE CONTRACT, PARAMETRIX WILL PROVIDE THE CONTRACTOR WITH AN "ASCII" POINT FILE CONTAINING ALL CONTROL POINTS ALONG WITH ALIGNMENT CENTER LINE POINTS AT 50' STATIONS.



## APPROVALS:

DESCHUTES COUNTY ROAD DEPARTMENT: \_\_\_\_\_

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE2509005-C1.0-CS00
JOB No. 2509-2509-005
DATE 05/2020



PROJECT NAME  TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS
--

COVER SHEET
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DRAWING NO. 1 OF 40  C1.0
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PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 DBPH Design Phase\99Svcs\CADD\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl LAYOUT: C1.1 GENERAL NOTES PLOTTED BY: ricodov DATE: Wednesday, September 2, 2020 10:15:10 AM

CONSTRUCTION NOTES:

1. DURING THE COURSE OF THE WORK, CONTRACTOR SHALL COORDINATE AND ACCOMMODATE OTHER CONTRACTORS OR OPERATIONS OF THE COUNTY.
2. CONTRACTOR SHALL RESTRICT ALL OPERATIONS TO THE AREAS WITHIN THE PROJECT BOUNDARIES. ANY DISRUPTION TO NATIVE LANDSCAPES, OUTSIDE OF THE PROJECT AREA, SHALL BE RESTORED AT NO COST TO THE OWNER.
3. CABLE AND GAS UTILITY TRENCHING SHALL BE COMPLETED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS FROM APPLICABLE UTILITY COMPANIES. ALL CABLE AND GAS UTILITIES WILL BE INSTALLED BY THE APPLICABLE UTILITY COMPANY IN CONFORMANCE WITH THEIR JOINT TRENCH DETAIL. CONTRACTOR SHALL COORDINATE TRENCH EXCAVATIONS, BEDDING AND BACKFILL WITH POWER, PHONE, TELEVISION, AND GAS REPRESENTATIVES.
4. ALL FINAL CUT SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED. FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED BY THE ENGINEER OR SHOWN ON THESE PLANS.
5. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION.
6. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. DESCHUTES COUNTY AND THEIR OFFICIALS, THE ENGINEER, AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.
7. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY. CONTRACTORS HAVE THE SOLE RESPONSIBILITY OF MAKING THEIR OWN QUANTITY TAKE-OFF AND COST ESTIMATE.

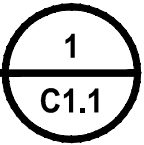
FOUND MONUMENTS TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1180	422196.79	3305804.79	3255.96	5/8" IRON ROD W/ 2" ALUMINUM CAP
1181	422148.52	3305887.17	3256.95	5/8" IRON ROD W/ 2" ALUMINUM CAP
1190	422783.53	3304713.41	3259.89	2" ALUMINUM CAP, DESCHUTES COUNTY
1191	422748.94	3304772.26	3256.12	5/8" IRON ROD, NO CAP, POE
1192	422759.71	3304813.37	3255.86	2" ALUMINUM CAP, DESCHUTES COUNTY, POE
1193	422435.94	3305142.86	3257.91	2" ALUMINUM CAP, DESCHUTES COUNTY
1194	422439.54	3305142.86	3257.48	2" ALUMINUM CAP, DESCHUTES COUNTY
1195	422893.00	3305162.49	3262.25	* BRASS CAP, 1/4 CORNER
1196	422852.50	3305142.58	3261.44	2" ALUMINUM CAP, DESCHUTES COUNTY, SPIN
1197	422857.69	3305142.44	3262.37	2" ALUMINUM CAP, DESCHUTES COUNTY
1198	422857.73	3305110.82	3262.52	2" ALUMINUM CAP, DESCHUTES COUNTY
1199	422857.81	3305084.36	3262.42	2" ALUMINUM CAP, DESCHUTES COUNTY
1200	422927.95	3305009.00	3263.01	2" ALUMINUM CAP, DESCHUTES COUNTY
1201	422794.33	3304833.63	3256.54	2" ALUMINUM CAP, DESCHUTES COUNTY
1202	422753.93	3304902.67	3256.08	2" ALUMINUM CAP, DESCHUTES COUNTY
1203	422719.35	3304882.43	3256.29	5/8" IRON ROD WITH NO CAP
1204	422678.34	3304893.17	3256.43	2" ALUMINUM CAP, DESCHUTES COUNTY
1205	422605.09	3305018.31	3255.99	2" ALUMINUM CAP, DESCHUTES COUNTY
1206	422535.65	3305142.81	3256.70	2" ALUMINUM CAP, DESCHUTES COUNTY
1207	422510.16	3305186.35	3255.92	2" ALUMINUM CAP, DESCHUTES COUNTY

FOUND MONUMENTS TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1208	422714.56	3304673.01	3256.26	2" ALUMINUM CAP, DESCHUTES COUNTY
1209	422841.12	3304601.54	3256.54	2" ALUMINUM CAP, DESCHUTES COUNTY
1210	422868.76	3304601.35	3257.18	5/8" IRON ROD, NO CAP
1211	423279.39	3304540.90	3275.35	1/2" IRON ROD, POE
1212	422929.94	3304428.93	3255.68	1/2" IRON ROD, POE
1213	422929.61	3304201.07	3253.07	1/2" IRON ROD, POE
1214	422930.32	3304084.08	3251.47	5/8" IRON ROD
1215	422928.64	3304313.47	3255.03	3/8" IRON ROD
1216	422930.46	3303966.76	3251.28	1/2" IRON ROD
1217	422930.48	3303850.61	3251.18	1/2" IRON ROD
1218	422930.58	3303733.90	3250.82	1/2" IRON ROD
1219	422869.81	3304139.64	3251.09	2" ALUMINUM CAP, DESCHUTES COUNTY

PARAMETRIX CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1020	422430.50	3305177.41	3256.24	SET 5/8" IRON ROD WITH 2.5" ALUMINUM CAP 'PARAMETRIX'
1021	422859.72	3305119.24	3262.76	SET 5/8" IRON ROD WITH 2.5" ALUMINUM CAP 'PARAMETRIX'
1022	423126.62	3304595.12	3265.47	SET 5/8" IRON ROD WITH 2.5" ALUMINUM CAP 'PARAMETRIX'
1023	422774.77	3304558.46	3255.84	SET 5/8" IRON ROD WITH 2.5" ALUMINUM CAP 'PARAMETRIX'
1024	422924.42	3303864.47	3250.62	SET 5/8" IRON ROD WITH 2.5" ALUMINUM CAP 'PARAMETRIX'

CONTROL POINTS & MONUMENTS

N.T.S



ODOT STD DWG INDEX	
RD 100	MAILBOX SUPPORT
RD 300	TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS
RD 317	CULVERT EMBANKMENT PROTECTION AND RIP RAP PADS
RD 364	CONCRETE INLETS
RD 700	CURBS
RD 810	BARBED AND WOVEN WIRE FENCE
RD 1040	SEDIMENT FENCE
TM 200	SIGN INSTALLATION DETAILS
TM 201	MISCELLANEOUS SIGN PLACEMENT DETAILS
TM 206	SIGN BRACING DETAIL
TM 211	SIGN DETAILS US AND INTERSTATE ROUTE SHIELDS
TM 472	TRAFFIC SIGNAL JUNCTION BOX/ HAN HOLES
TM 503	PAVEMENT MARKING STANDARD DETAIL BLOCKS
TM 517	RECESSED PAVEMENT MARKERS
TM 531	TURN ARROW MARKING DETAILS
TM 539	MEDIAN AND LEFT TURN CHANNELIZATION DETAILS
TM 561	ALIGNMENT LAYOUT: LEFT TURN LANE, CENTERLINE, & MEDIANS
TM 570	TRAFFIC DELINEATORS
TM 601	MULTIPOST BREAKAWAY SIGN SUPPORT NOTES
TM 602	TRIANGULAR BASE BREAKAWAY SIGN SUPPORT DETAILS
TM 635	BREAKAWAY SIGN & LUMINAIRE SUPPORTS--SUPPORT LOCATION GUIDELINES
TM 671	3 SECOND GUST WIND SPEED MAP
TM 675	EXTRUDED ALUMINUM PANELS
TM 676	SIGN ATTACHMENTS
TM 681	PERFORATED STEEL SQUARE TUBE (PSST) SIGN SUPPORT INSTALLATION
TM 688	PERFORATED STEEL SQUARE TUBE (PSST) SLIP BASE FOUNDATION
TM 820	TEMPORARY BARRICADES
TM 821	TEMPORARY SIGN SUPPORTS
TM 822	TEMPORARY SIGN SUPPORTS
TM 840	CLOSURE DETAILS
TM 841	INTERSECTION WORK ZONE DETAILS
TM 850	2-LANE, 2-WAY ROADWAYS

FOR BIDDING REFERENCE ONLY

	REVISIONS	DATE	BY	DESIGNED DR
				DRAWN DR/LYF
				CHECKED
				APPROVED

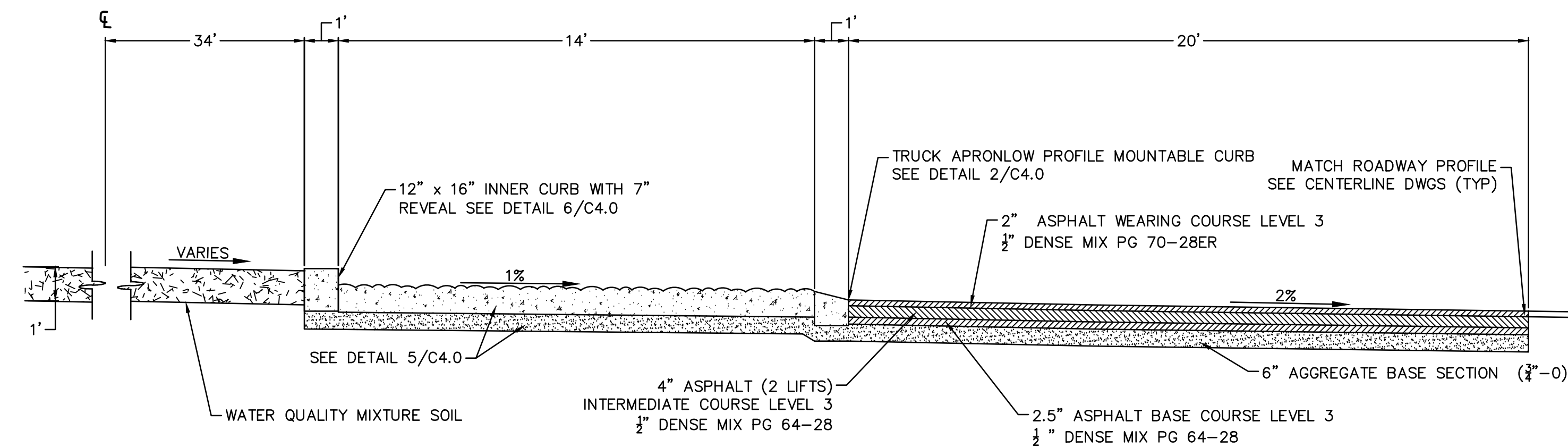
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JOB No.	297-2509-005
DATE	05/2020



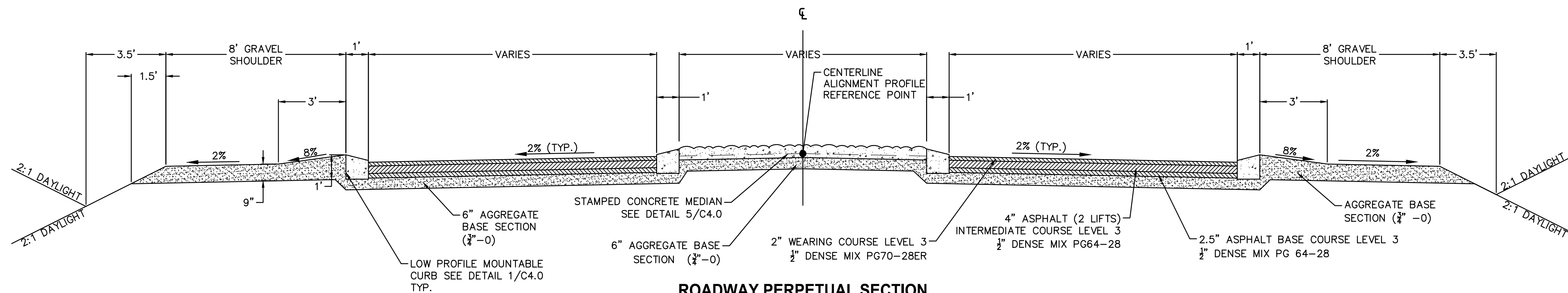
PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

GENERAL NOTES
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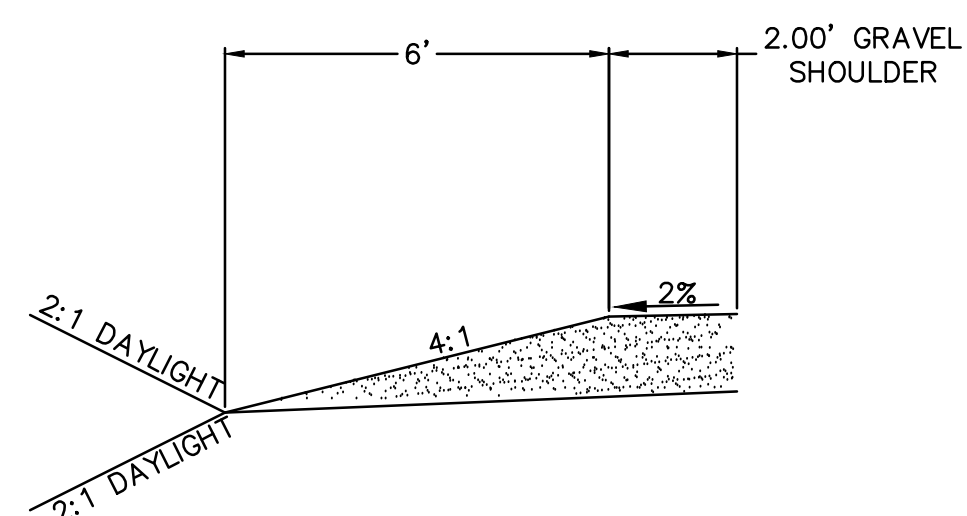
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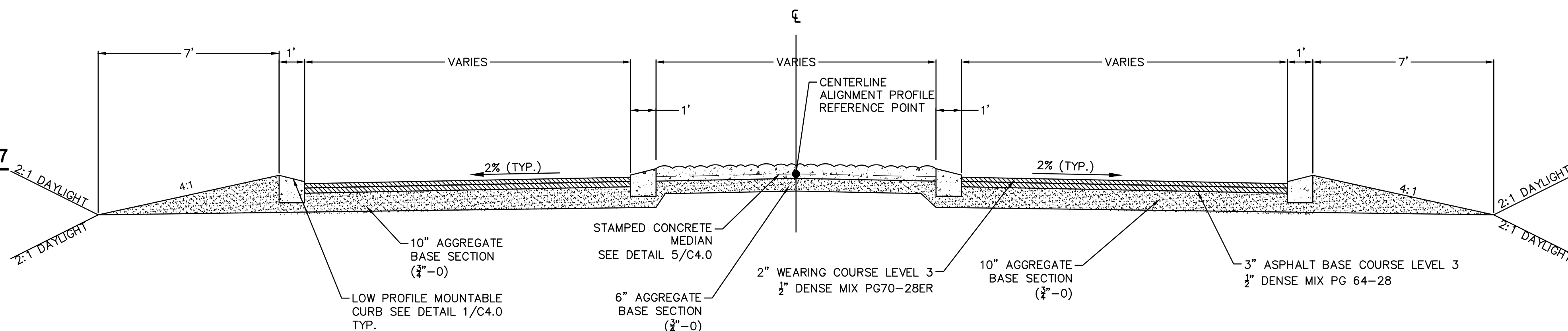
**INNER ROUNDABOUT SECTION**  
**STA: 0+00-3+14.5**



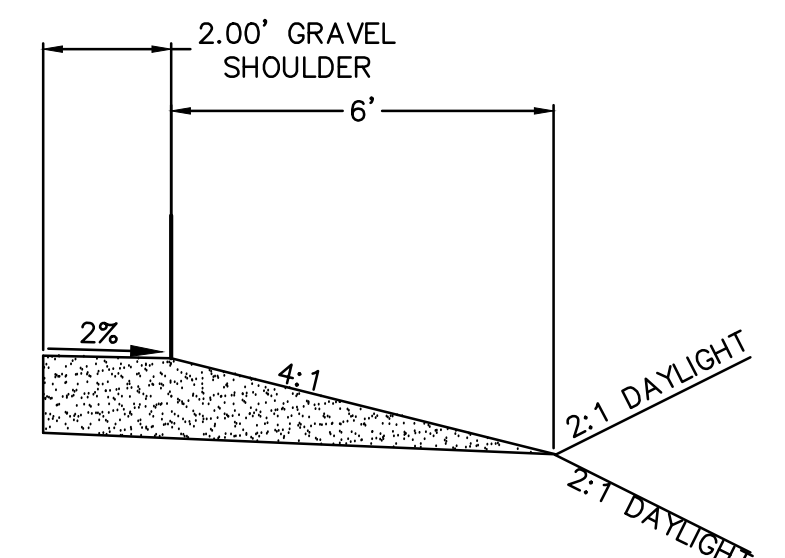
ROADWAY PERPETUAL SECTION  
TUMALO RD STA: 93+41.3-394+43.3 STA:395+82.5-396+84.2  
TUMALO PL STA: 8+50.4-9+30.1  
SCHOOL ACCES STA: 10+69.9-10+98



**TUMALO RD STA: 392+44.6-STA:393+34.7**  
N.T.S



**ROADWAY WITH MEDIAN & VARYING CURB**  
**TUMALO RD STA: 392+44.6-393+41.3 STA:396+84.2-397+89.1**  
 N.T.S



**TUMALO RD STA: 392+44.6- STA 392+72.7**  
**TUMALO RD STA: 396+84.3-STA:397+31.8**  
N.T.S

	REVISIONS	DATE	BY	DESIGNED
				DRAWN
				CHECKED
				APPROVED

ONE INCH AT FULL SCALE  
IF NOT, SCALE ACCORDINGLY

FILE NAME
BE2509005-C2.0-TS00
JOB No.
297-2509-005
DATE
05/2020



PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

## TYPICAL SECTIONS

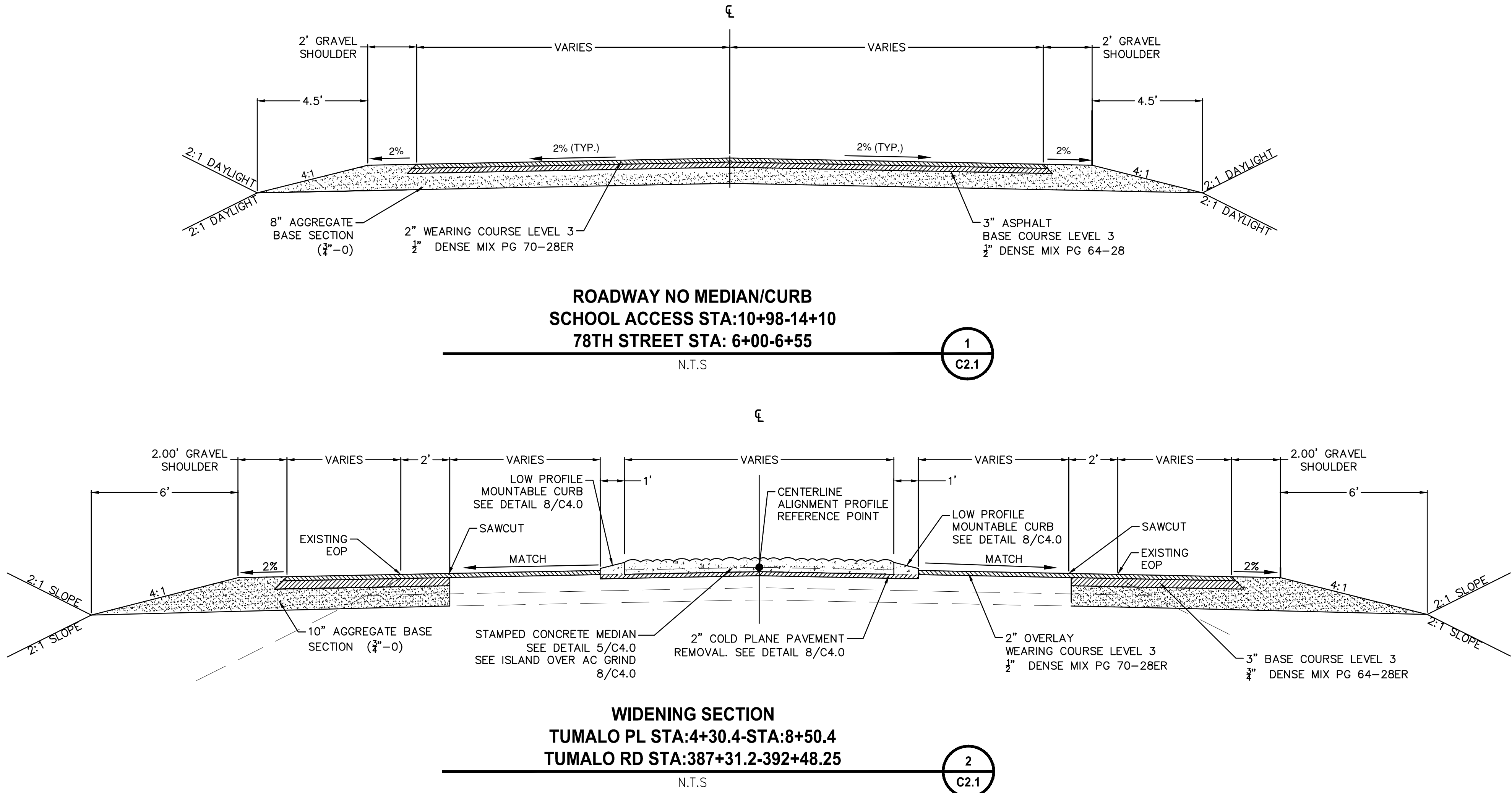
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3 OF 40

## C2.0

FOR BIDDING REFERENCE ONLY

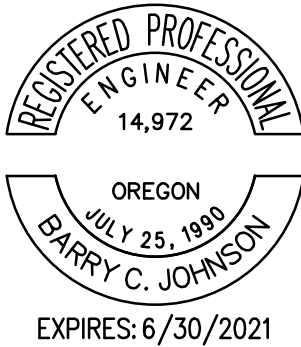


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REVISIONS	DATE	BY	DESIGNED
			DRAWN
			CHECKED
			APPROVED

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JOB No.	297-2509-005
DATE	05/2020



PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

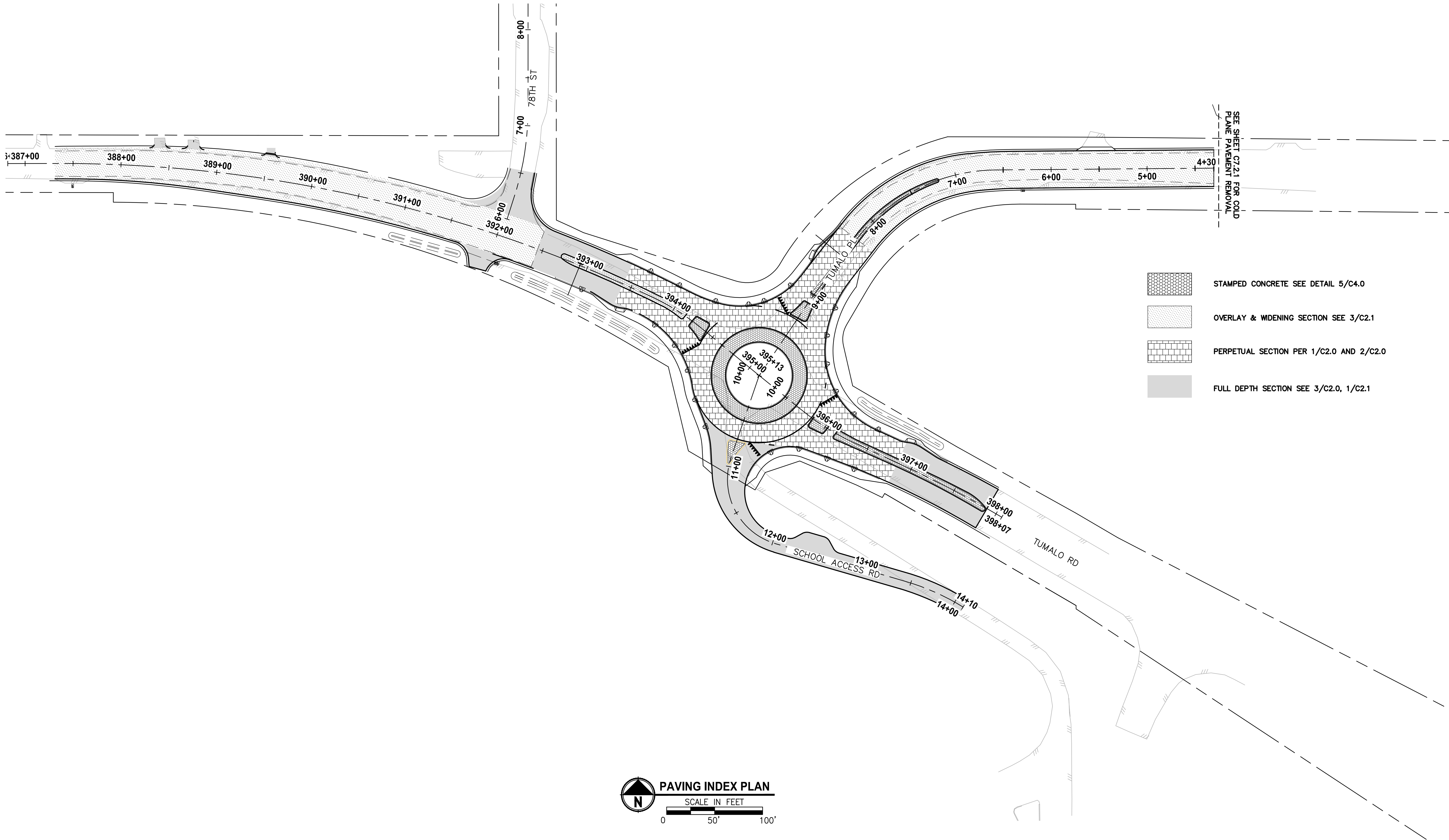
TYPICAL SECTIONS
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DRAWING NO. 4 OF 40
C2.1

FOR BIDDING REFERENCE ONLY



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REVISIONS	DATE	BY	DESIGNED
			DRAWN
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
BE2509005-C3.0-PI00

JOB No.  
297-2509-005

DATE  
05/2020



PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

FOR BIDDING REFERENCE ONLY

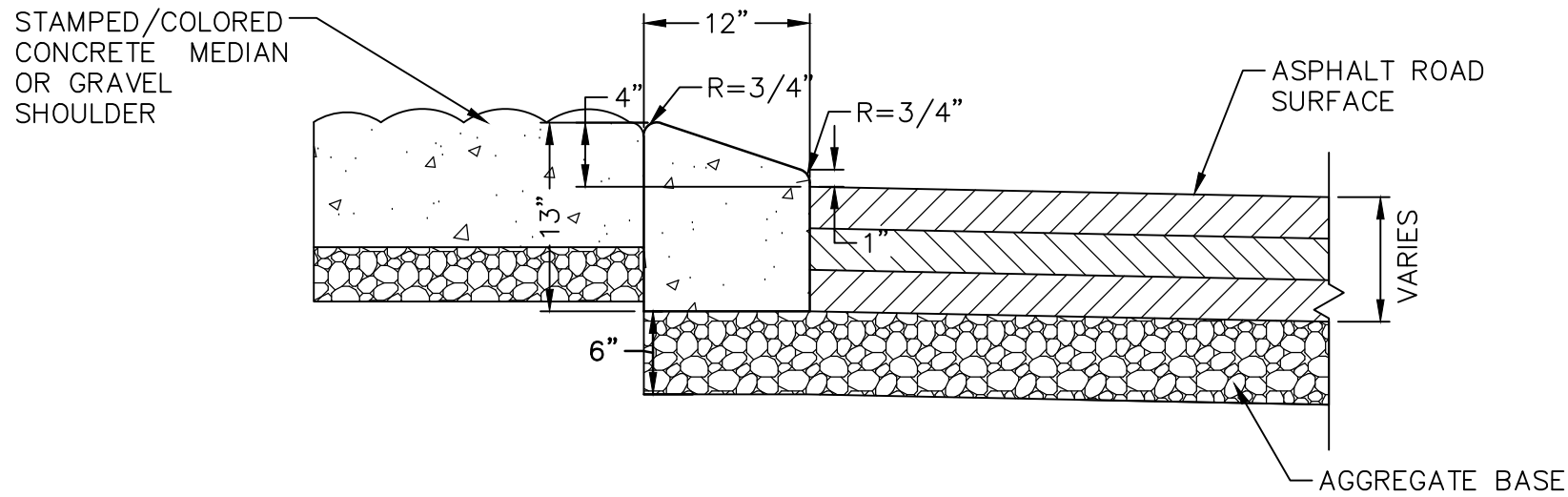
**PAVING INDEX**

DRAWING NO.  
5 OF 40

**C3.0**



LAYOUT: C4.0 DETAILS  
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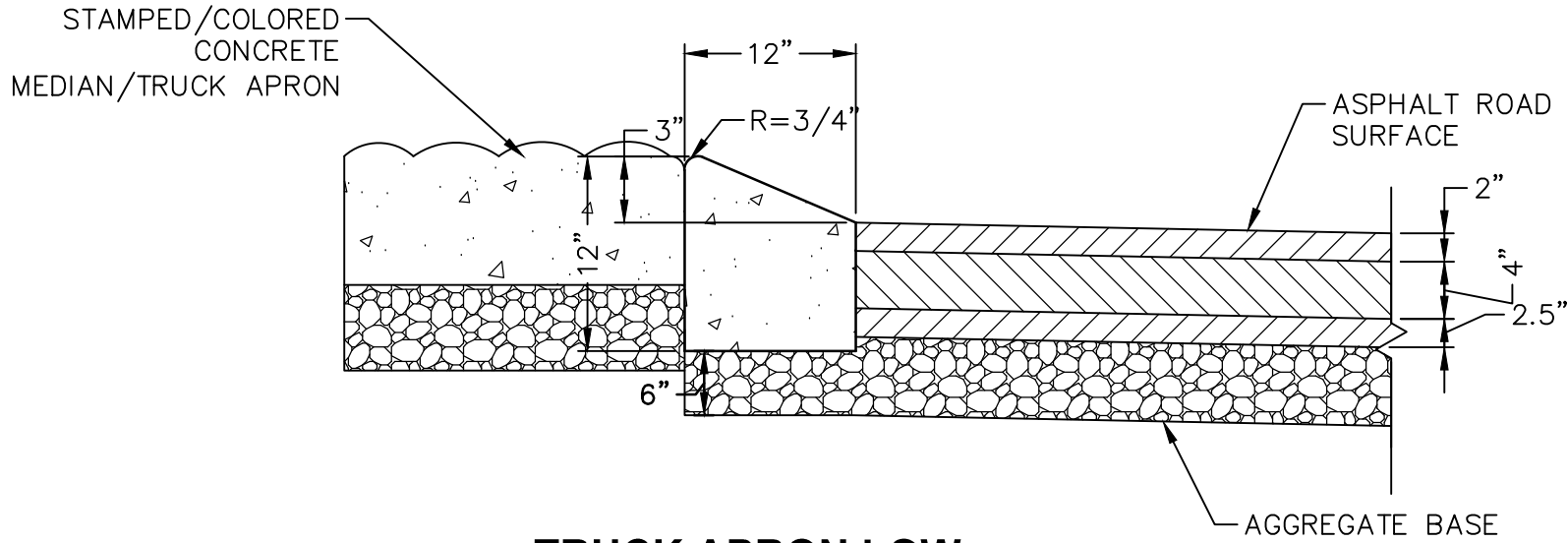


LOW PROFILE  
 MOUNTABLE CURB
 

1

 C4.0

NOTES:  
 1. REFERENCE ODOT DWG RD700  
 2. ALL CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT

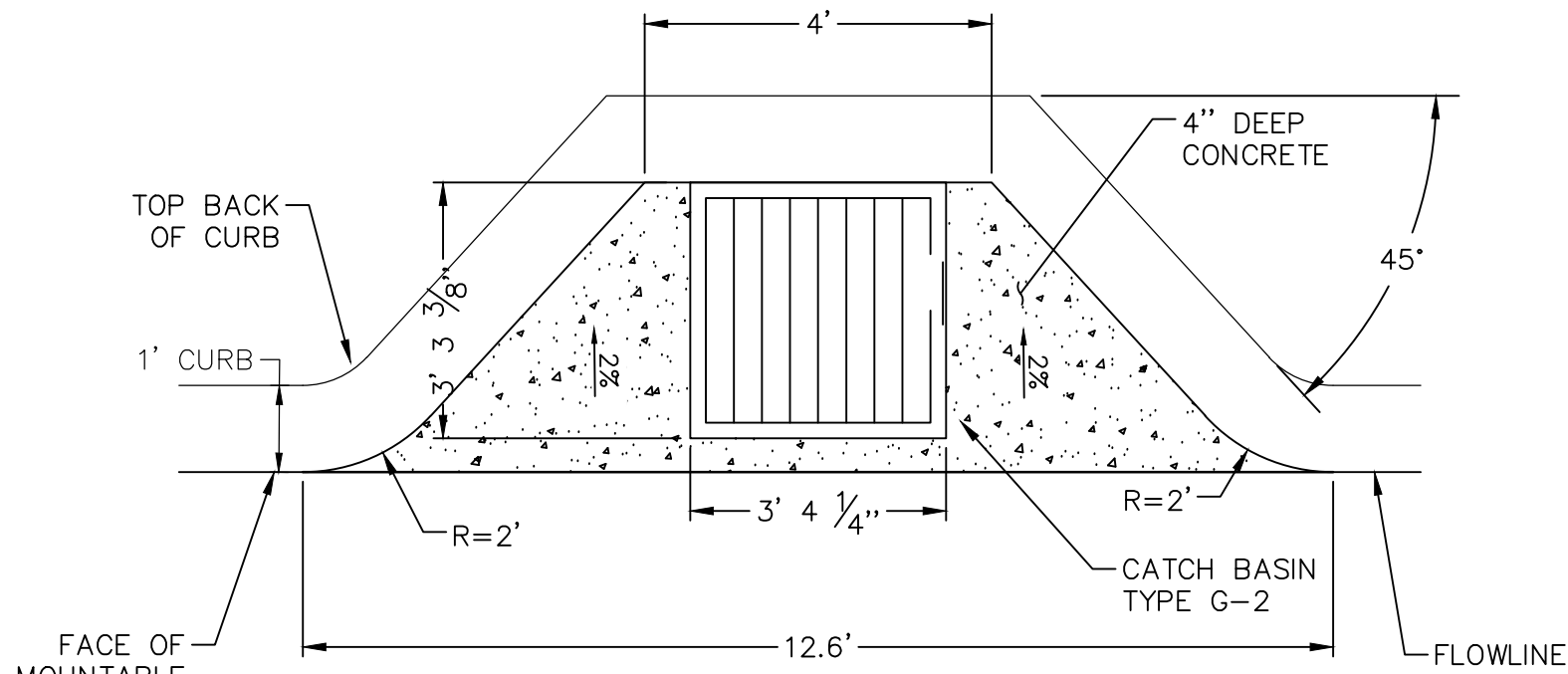


TRUCK APRON LOW  
 PROFILE MOUNTABLE  
 CURB
 

2

 C4.0

NOTES:  
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 2. ALL CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT

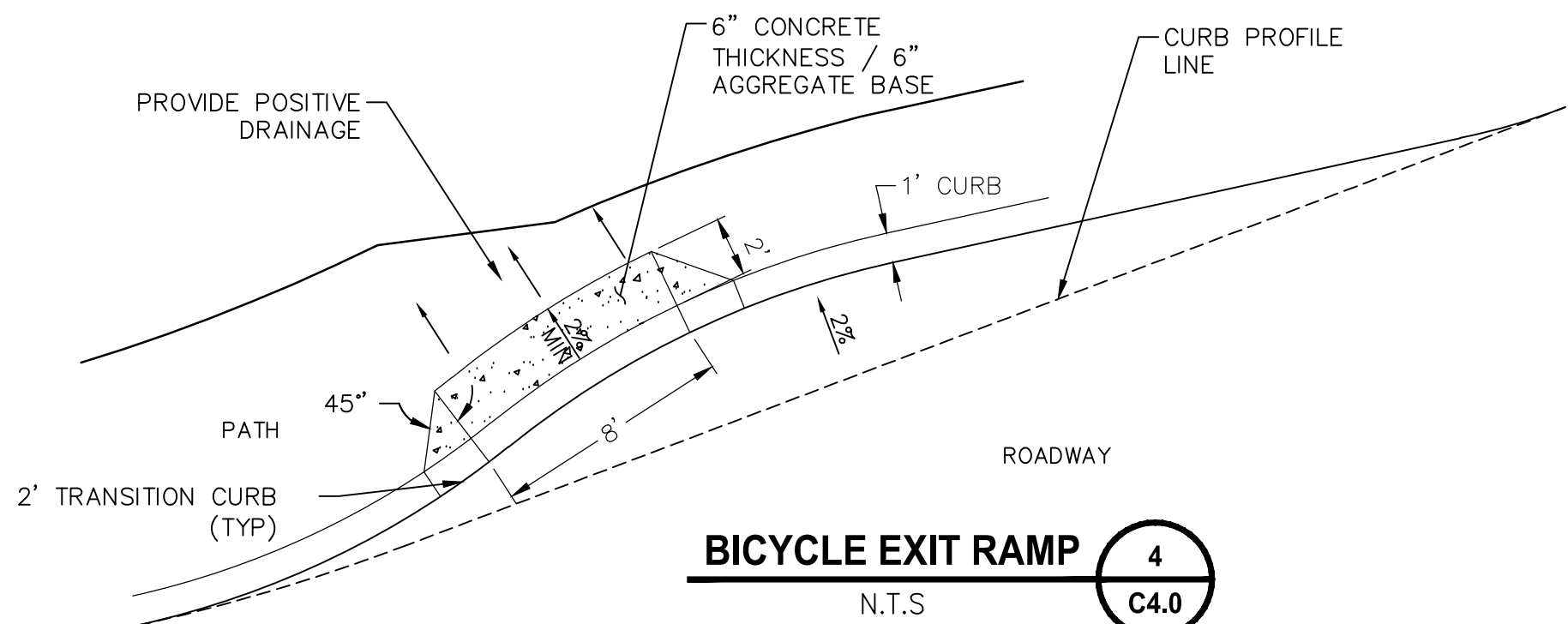


STORM INLET
 

3

 C4.0

NOTE: ALL CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT

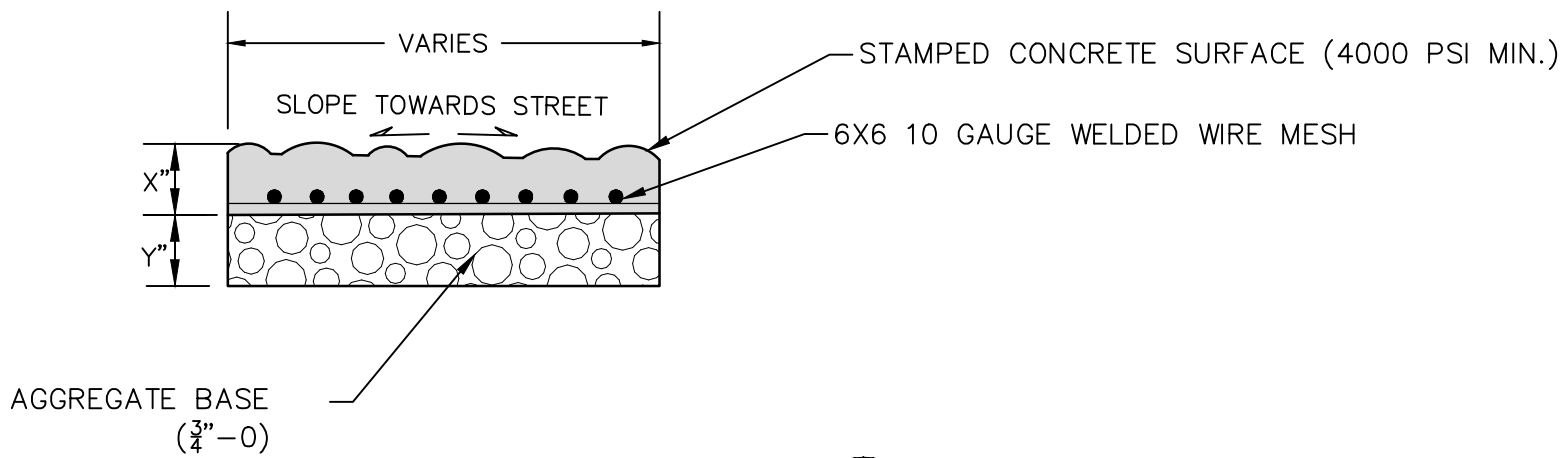


BICYCLE EXIT RAMP
 

4

 C4.0

NOTE: ALL CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT



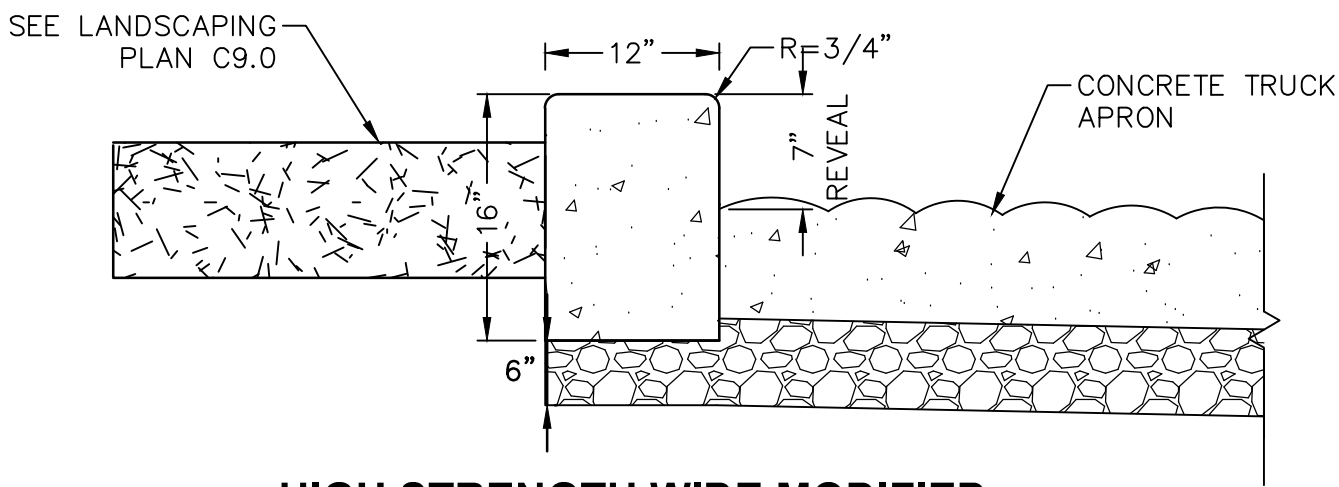
STAMPED CONCRETE
 

5

 C4.0

N.T.S.  
 X DIMENSION:  
 - MEDIAN = 6"  
 - TRUCK APRON = 8"

Y DIMENSION:  
 - MEDIAN = 6"  
 - TRUCK APRON = 6"

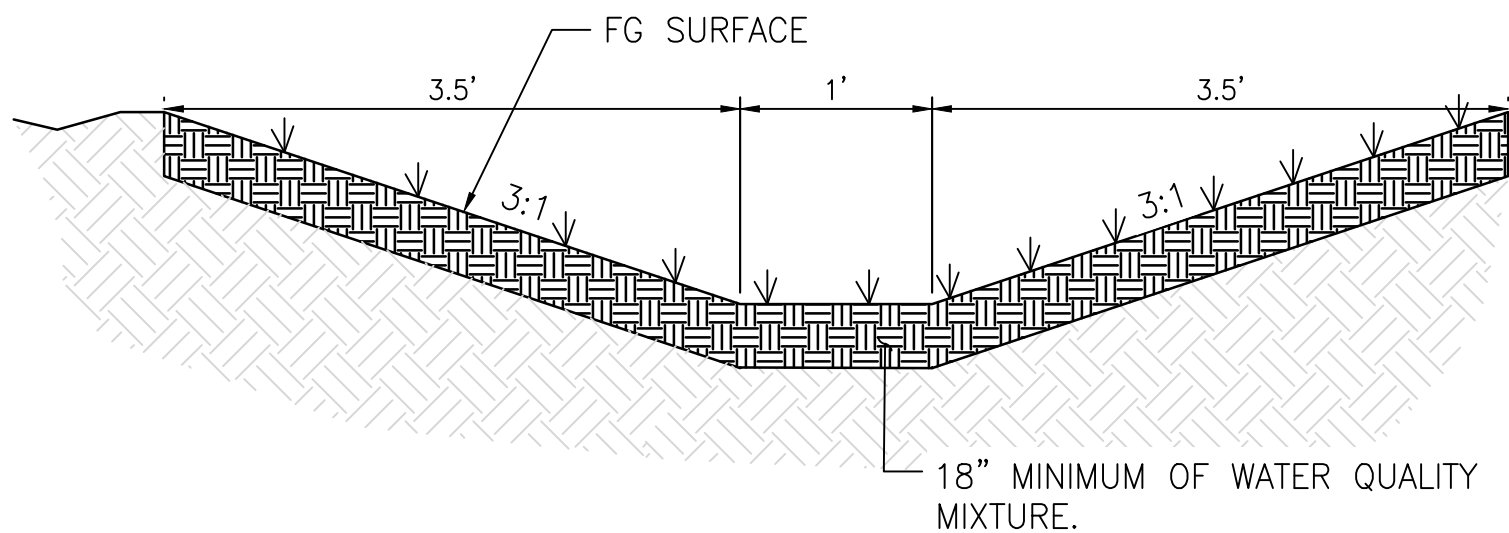


HIGH STRENGTH WIDE MODIFIED  
 CURB INNER CURB
 

6

 C4.0

NOTE: CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT

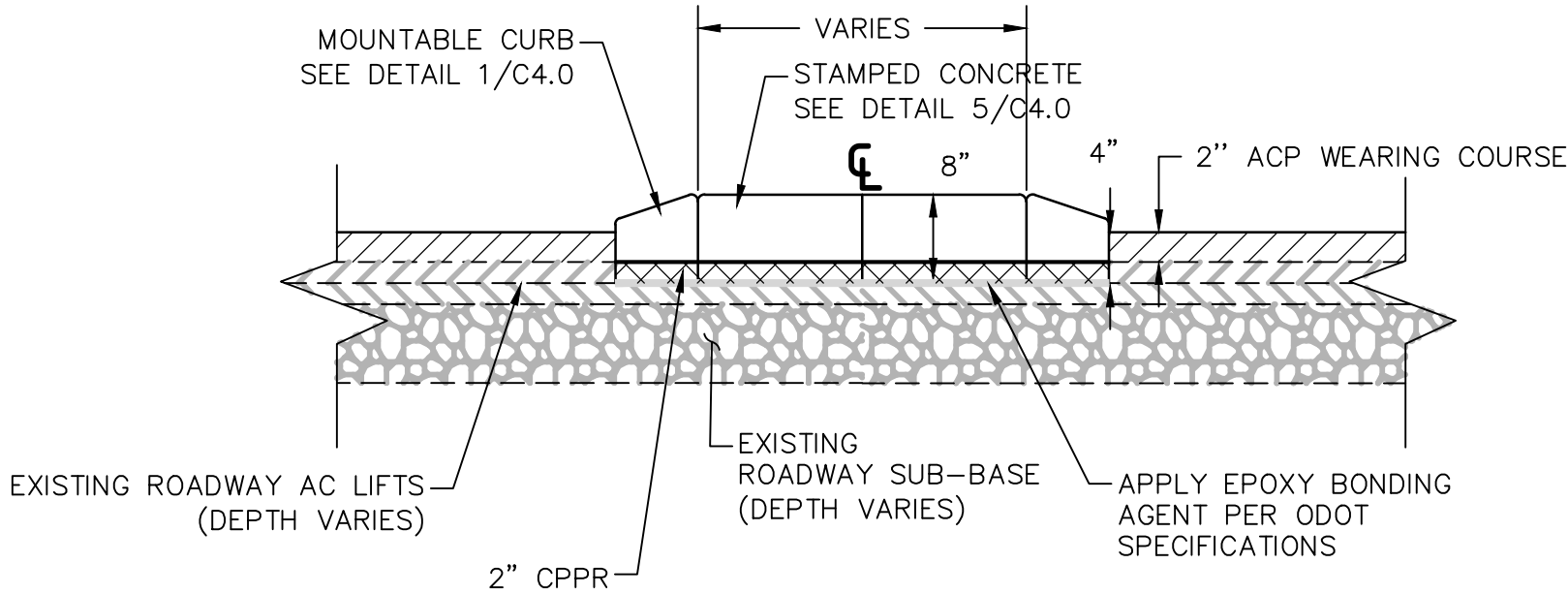


WATER QUALITY SWALE  
 SECTION DETAIL
 

7

 C4.0

N.T.S.

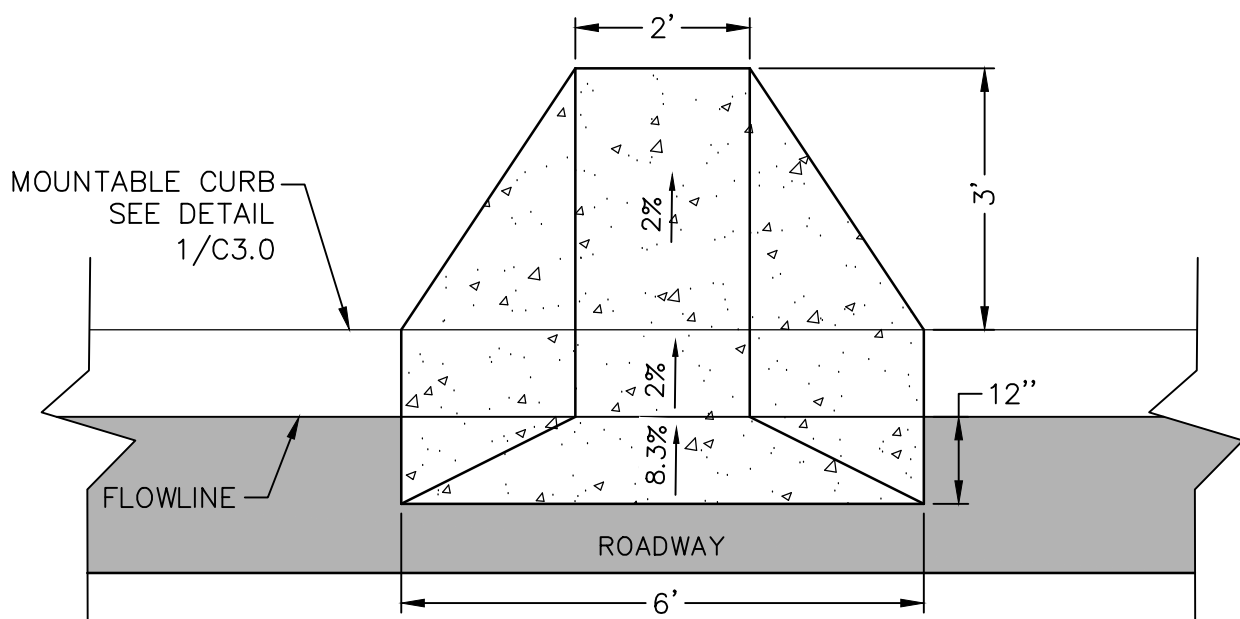


ISLAND OVER AC
 

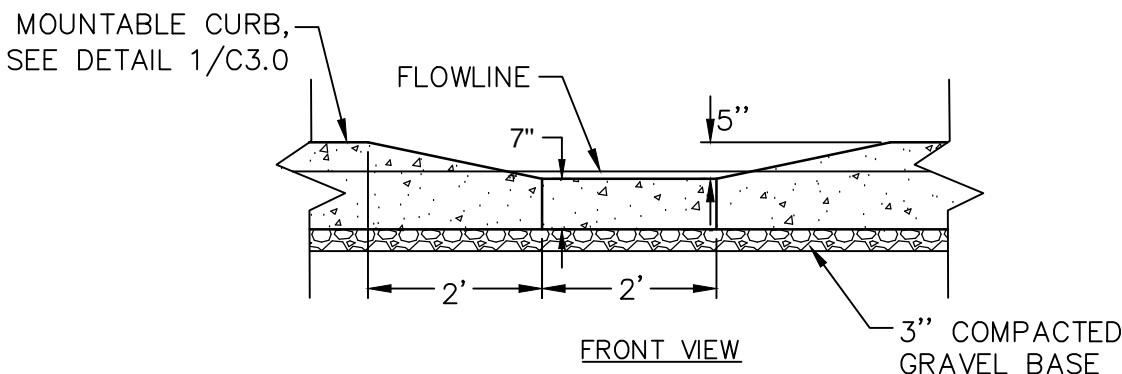
8

 C4.0

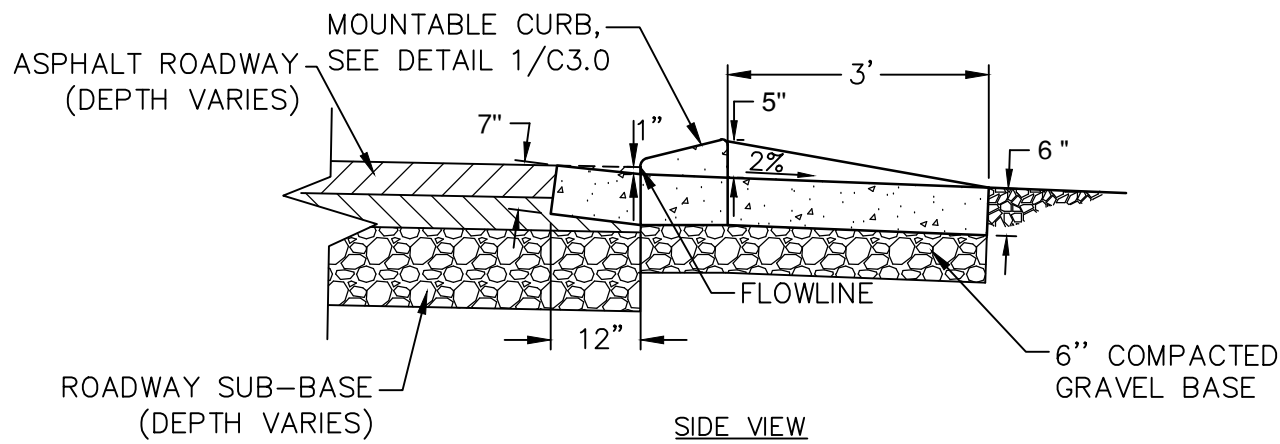
N.T.S.



TOP VIEW



FRONT VIEW



SIDE VIEW

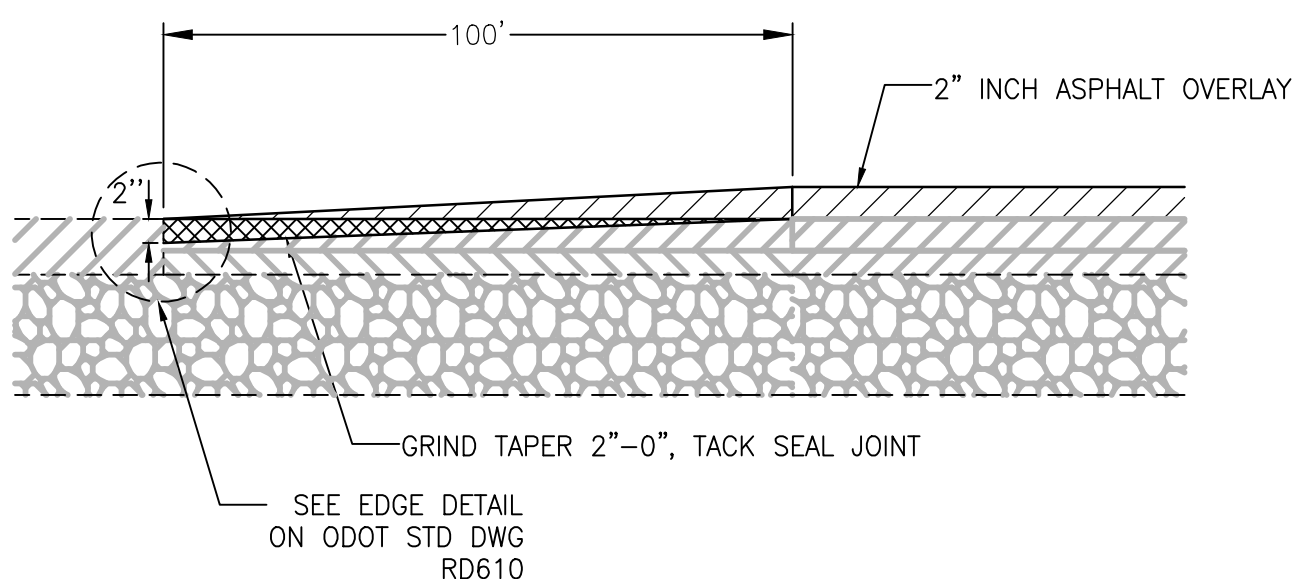
CURB CUT
 

9

 C4.0

N.T.S.

NOTE: ALL CONCRETE SHALL BE 5000 PSI HIGH STRENGTH WITH FIBER REINFORCEMENT



GRIND TAPER
 

10

 C4.0

N.T.S.

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED
			DRAWN
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE2509005-C4.0-DT00
JOB No. 297-2509-005
DATE 05/2020

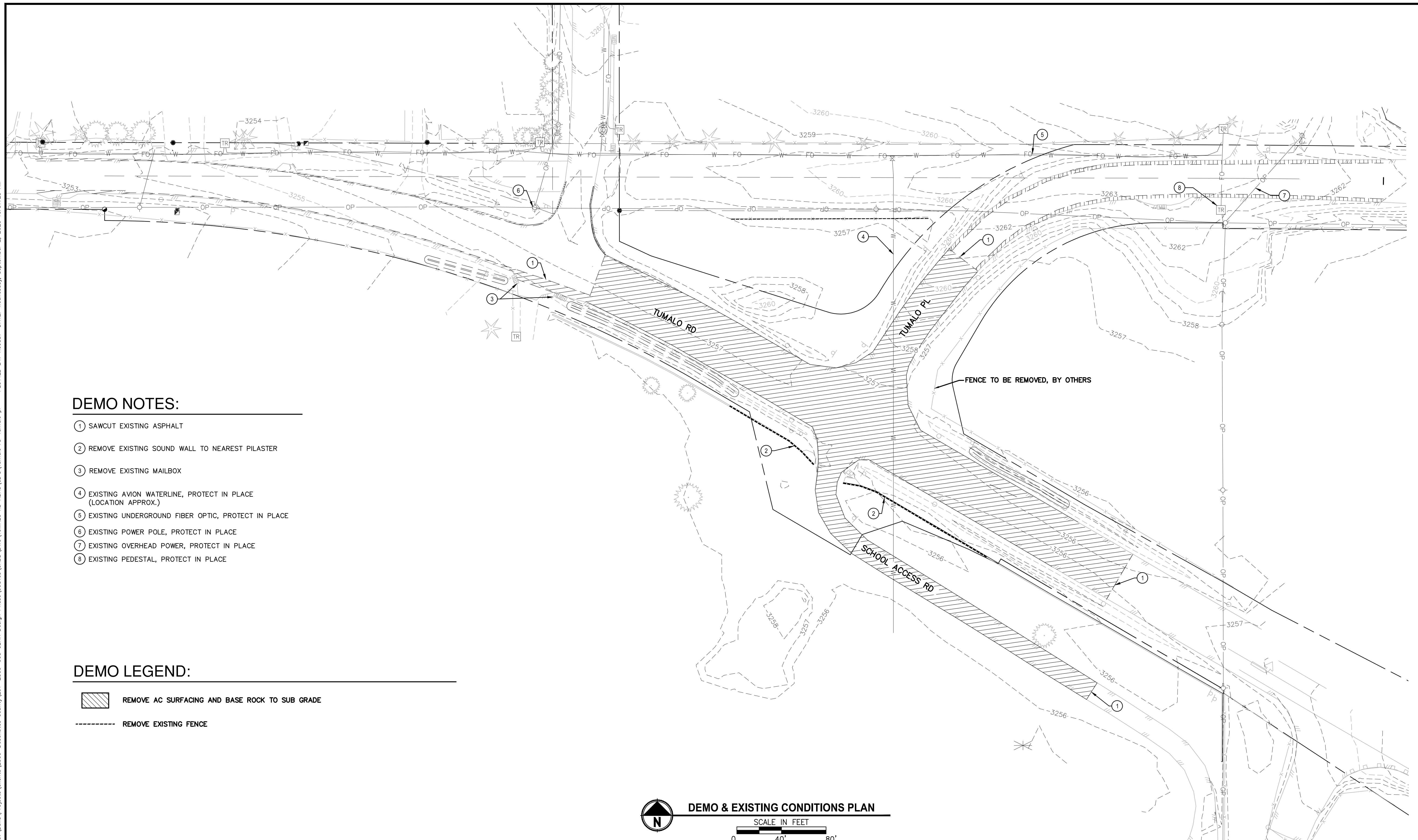


PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

DETAILS
---------

DRAWING NO. 6 OF 40
C4.0






DEMO NOTES:

- ① SAWCUT EXISTING ASPHALT
- ② REMOVE EXISTING SOUND WALL TO NEAREST PILASTER
- ③ REMOVE EXISTING MAILBOX
- ④ EXISTING AVION WATERLINE, PROTECT IN PLACE  
(LOCATION APPROX.)
- ⑤ EXISTING UNDERGROUND FIBER OPTIC, PROTECT IN PLACE
- ⑥ EXISTING POWER POLE, PROTECT IN PLACE
- ⑦ EXISTING OVERHEAD POWER, PROTECT IN PLACE
- ⑧ EXISTING PEDESTAL, PROTECT IN PLACE

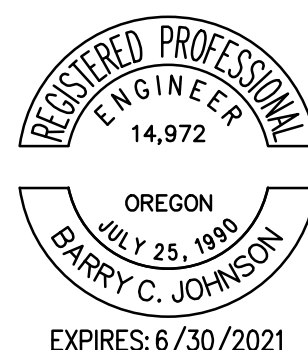
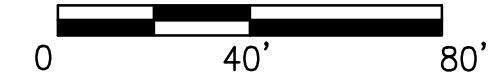
DEMO LEGEND:

-  REMOVE AC SURFACING AND BASE ROCK TO SUB GRADE
-  REMOVE EXISTING FENCE



## DEMO & EXISTING CONDITIONS PLAN

SCALE IN FEET



PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

## DEMO & EXISTING CONDITIONS PLAN

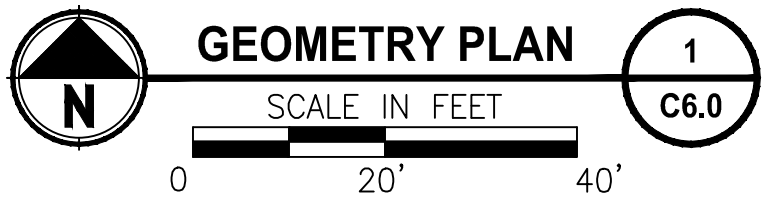
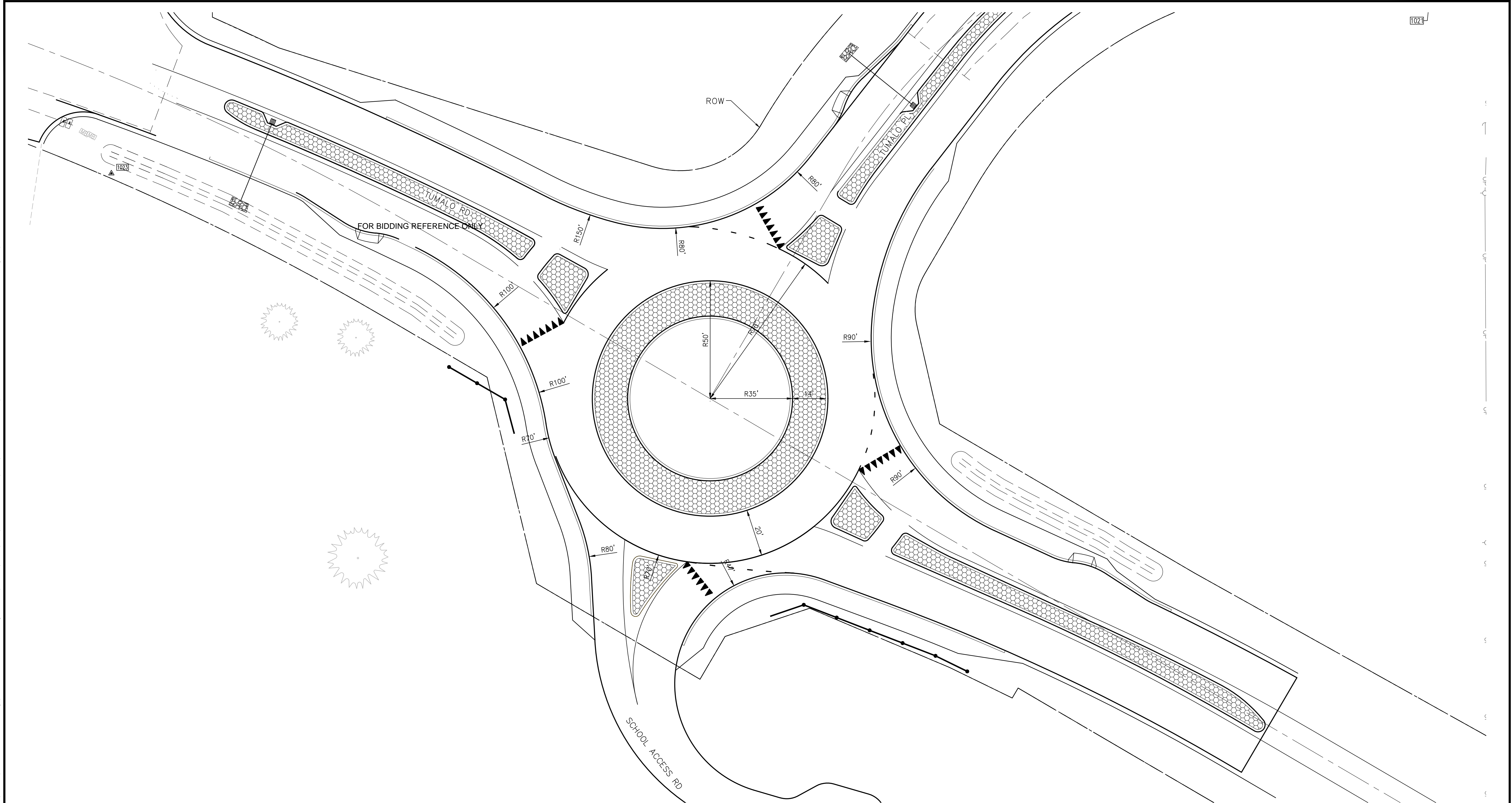
DRAWING NO.  
# OF 40

## C5.0

FOR BIDDING REFERENCE ONLY



LAYOUT: C6.0 GEOMETRY PLAN      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\257-2509-005 OBRH Design Phase\99Sves\CADD\DWG\TUMALO RD REAS\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: ricodav      DATE: Wednesday, September 2, 2020 10:55:03 AM



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
BE2509005-C6.1-G000

JOB No.  
257-2509-005

DATE  
05/2020



PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

**GEOMETRY PLAN**

DRAWING NO.  
8 OF 40

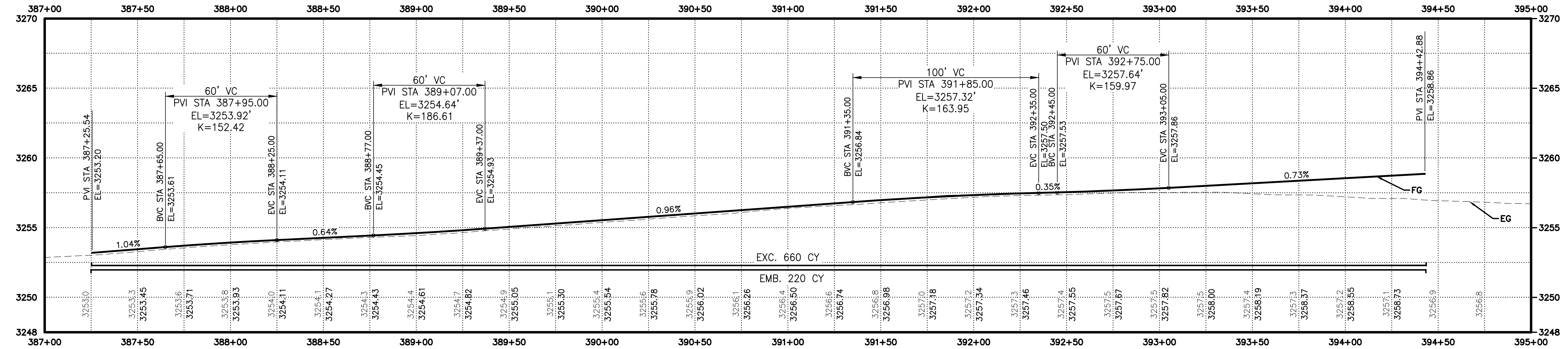
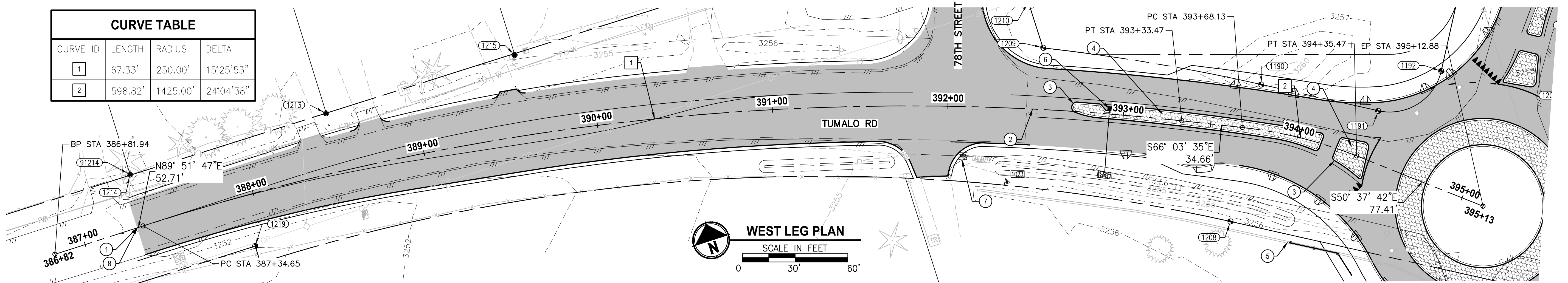
**C6.0**

FOR BIDDING REFERENCE ONLY

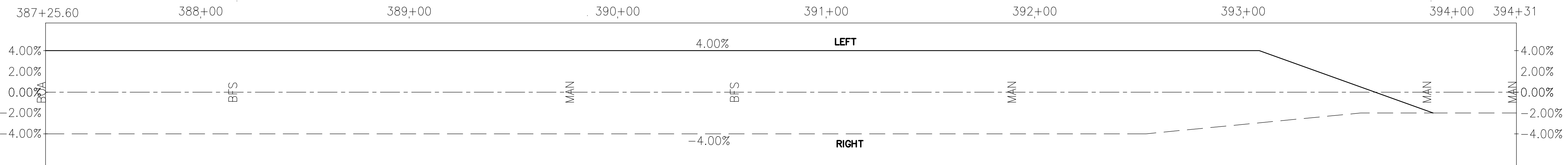
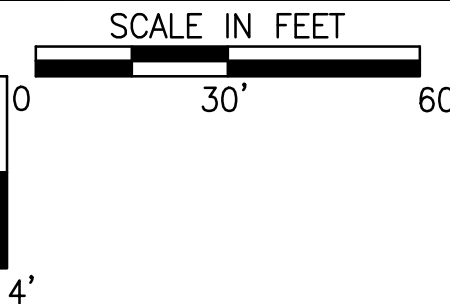


LAYOUT: C7.0 PLAN & PROFILE  
PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBRH Design Phase\995\cs\TUMALO RD RBAs\CD\5\Tumalo rd-Tumalo pl  
PLOTTED BY: ricardov DATE: Wednesday, September 2, 2020 3:00:49 PM

CURVE TABLE			
CURVE ID	LENGTH	RADIUS	DELTA
1	67.33'	250.00'	15°25'53"
2	598.82'	1425.00'	24°04'38"



WEST LEG PROFILE



WEST LEG SUPER ELEVATION GRAPH

1"=30'

ROAD CONSTRUCTION NOTES:

- BEGIN ROAD CONSTRUCTION STA: 387+31.2
- BEGIN FULL DEPTH CONSTRUCTION STA: 392+48.25
- CONSTRUCT LOW PROFILE MOUNTABLE CURB (SEE DETAIL 1/C4.0)
- CONSTRUCT STAMPED COLORED CONCRETE MEDIAN (SEE DETAIL 5/C4.0)
- INSTALL SOUND WALL, SEE SHEET C9.0
- INSTALL ODOT TYPE G-2 INLET STA: 392+92.03, 3.1' LT PER ODOT STD DWG RD 364 RIM=3257.69, I.E. OUT = 3254.50 INSTALL 36.5 LF OF 8" DUCTIL IRON PIPE, S=0.01 FT/FT
- INSTALL MAILBOX SUPPORT PER ODOT STD DWG RD 100
- BEGIN 0"-2" GRIND TAPER PER 10/C4.0

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE2509005-C7.0-PP00
JOB No.	297-2509-005
DATE	05/2020



PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

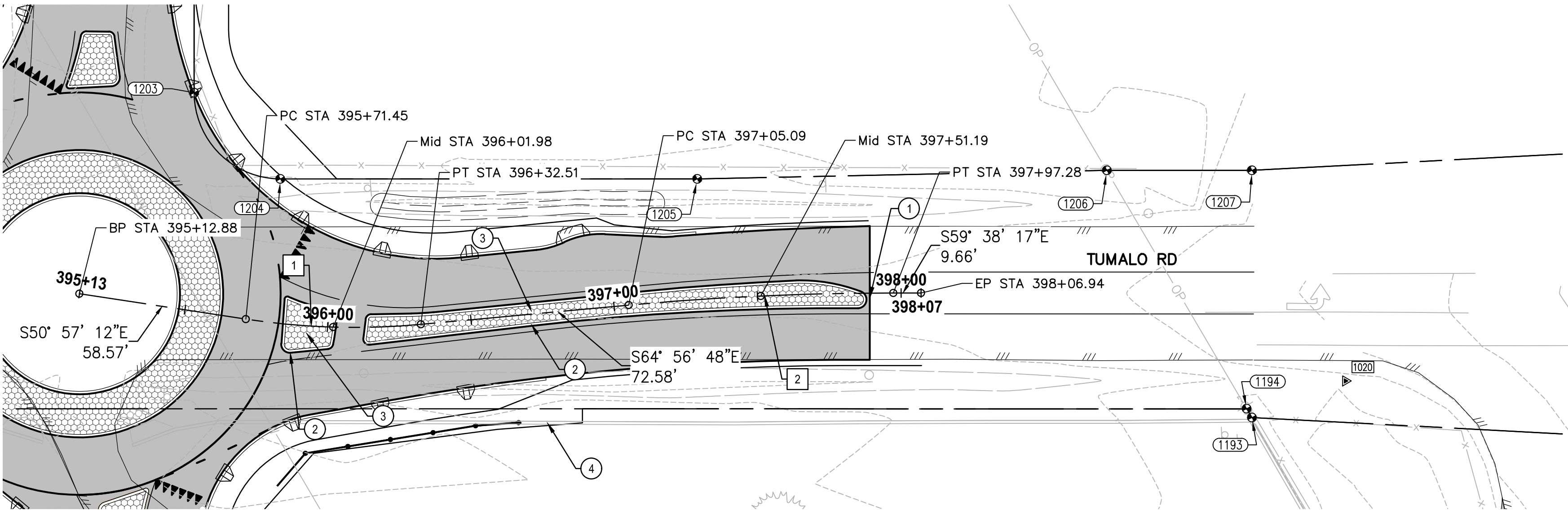
WEST LEG - PLAN & PROFILE
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DRAWING NO. 9 OF 40
C7.0

FOR BIDDING REFERENCE ONLY

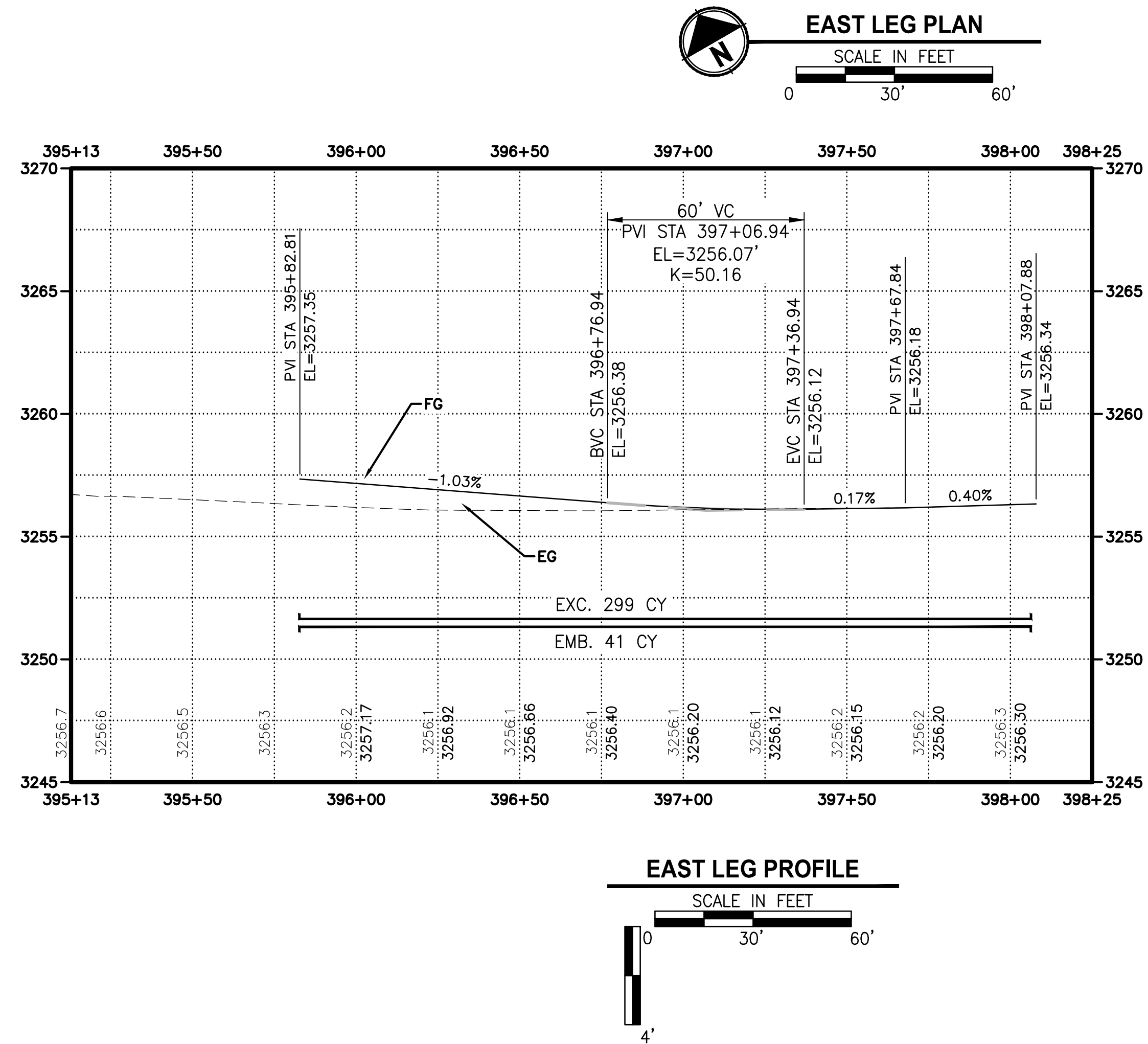


LAYOUT: C7.1 PLAN & PROFILE      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBRH Design Phase\995vcs\CADD\DWG\TUMALO RD\_RBA\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: ricodav      DATE: Wednesday, September 2, 2020 2:57:32 PM

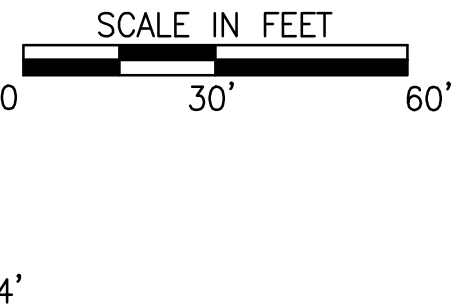


CURVE TABLE			
CURVE ID	LENGTH	RADIUS	DELTA
1	61.06'	250.00'	13°59'35"
2	92.19'	995.00'	5°18'31"

- ROAD CONSTRUCTION NOTES:
- 1 END ROAD CONSTRUCTION STA:397+89.20
  - 2 CONSTRUCT LOW PROFILE MOUNTABLE CURB (SEE DETAIL 1/C4.0)
  - 3 CONSTRUCT STAMPED COLORED CONCRETE MEDIAN (SEE DETAIL 5/C4.0)
  - 4 INSTALL SOUND WALL SEE SHEET C9.0

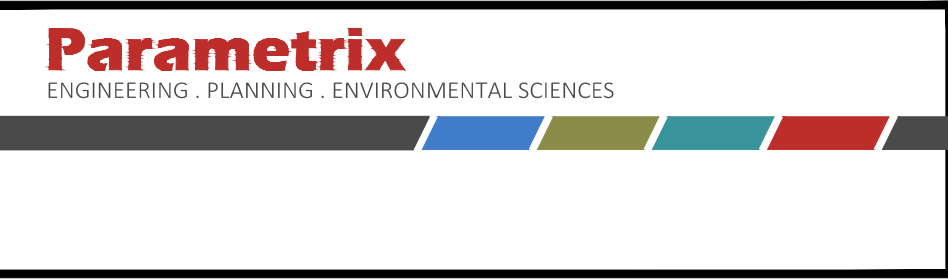


EAST LEG PROFILE



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE25090005-C7.1-PP00
JOB No. 297-2509-005
DATE 05/2020



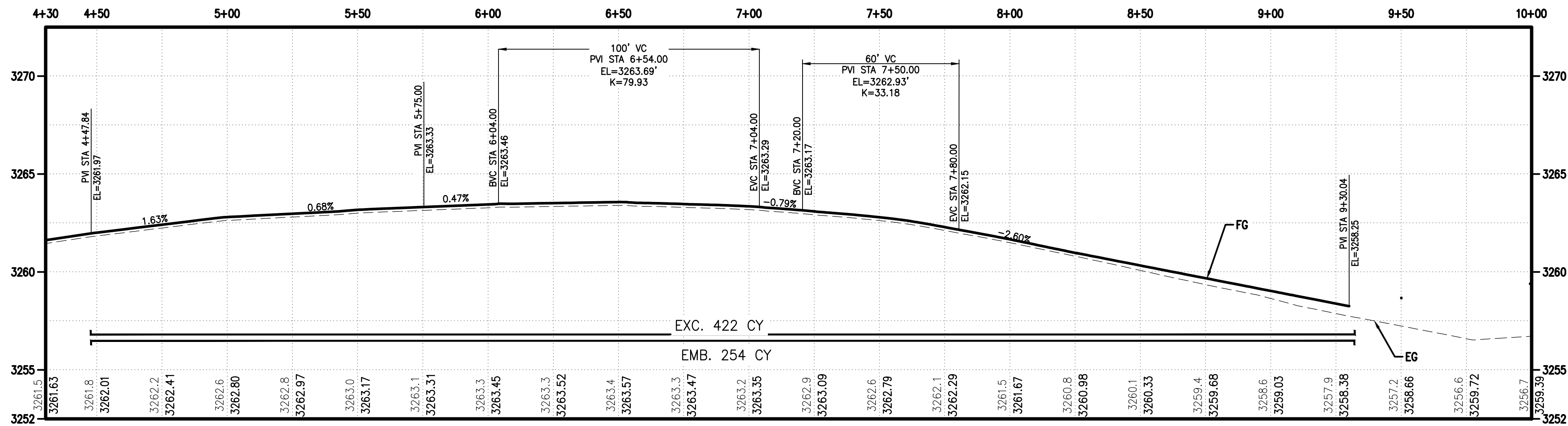
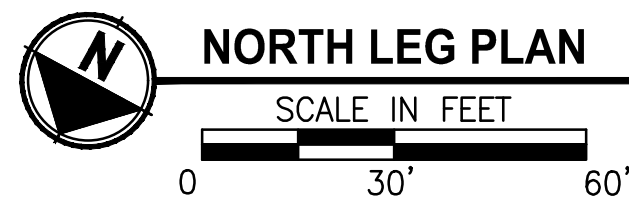
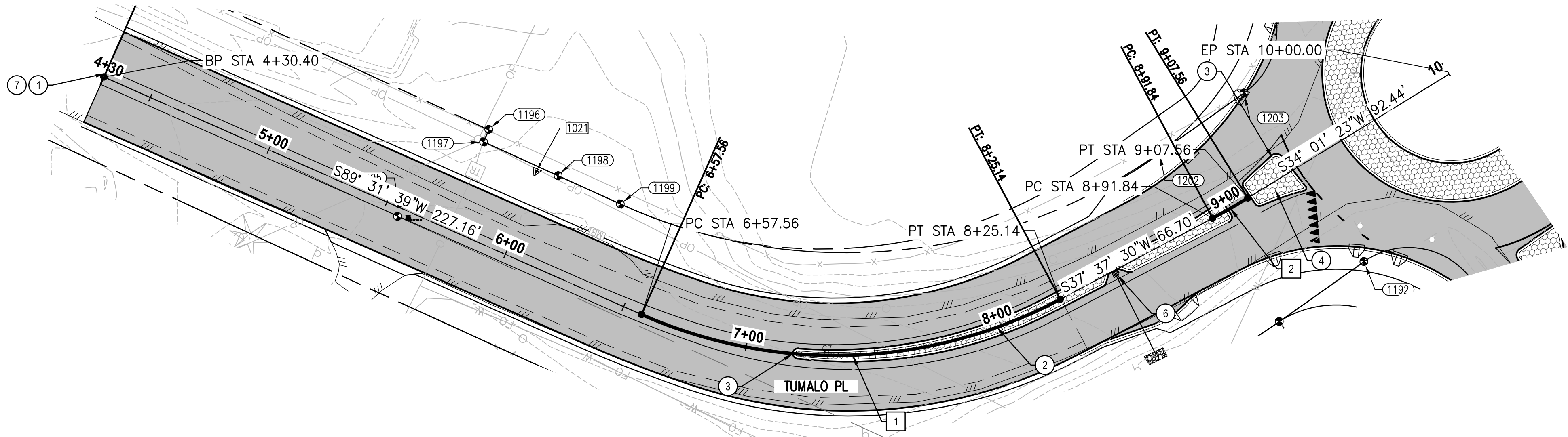
PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

FOR BIDDING REFERENCE ONLY
EAST LEG - PLAN & PROFILE

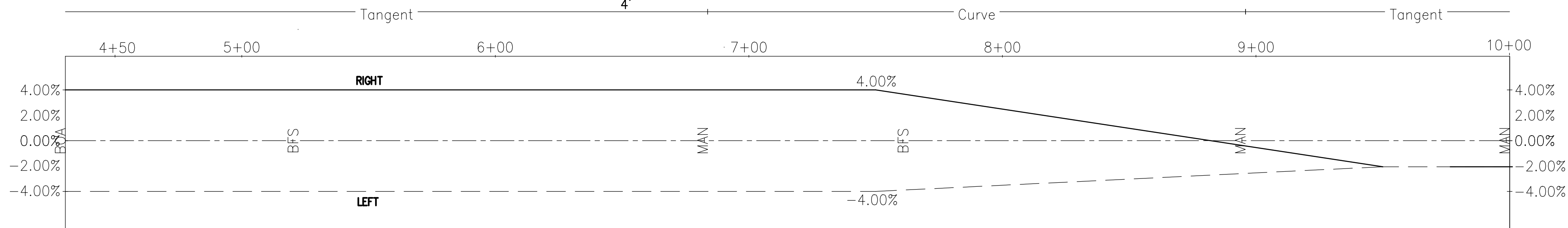
DRAWING NO. 10 OF 40
C7.1



LAYOUT: C7.2 PLAN & PROFILE      PATH: U:\Bend\Projects\Clients\2509-005 OBRH Design Phase\99595\CD\DWG\TUMALO RD\RB4\CD\TUMALO rd-Tumalo pl      PLOTTED BY: ricodov      DATE: Wednesday, September 2, 2020 3:05:58 PM



NORTH LEG PROFILE



NORTH LEG SUPER ELEVATION GRAPH

1"=30'

ROAD CONSTRUCTION NOTES:

- BEGIN ROAD CONSTRUCTION STA: 4+30.4 PER 2/C2.1
- BEGIN FULL DEPTH CONSTRUCTION STA: 7+98.4 PER 2/C2.1
- CONSTRUCT LOW PROFILE MOUNTABLE CURB (SEE DETAIL 8/C4.0)
- CONSTRUCT STAMPED COLORED CONCRETE MEDIAN (SEE DETAIL 8/C4.0)
- INSTALL ODOT TYPE 1 FENCE PER ODOT STD DWG RD 810
- INSTALL ODOT TYPE G-2 INLET STA: 8+48.6 , 1.3'RT PER ODOT STD DWG RD 364 RIM=3260.2, I.E OUT = 3257.74 INSTALL 35 LF OF 8" DUCTILE IRON PIPE, S=0.008 FT/FT
- BEGIN 0'-2" GRIND TAPER PER 10/C4.0

CURVE TABLE

CURVE ID	LENGTH	RADIUS	DELTA
1	167.59'	185.00'	51°54'10"
2	15.72'	250.00'	3°36'07"

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED
			DR
			DRAWN
			DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BE25090005-C7.2-PP00
JOB No.
297-2509-005
DATE
05/2020



Parametrix  
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PROJECT NAME

TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS

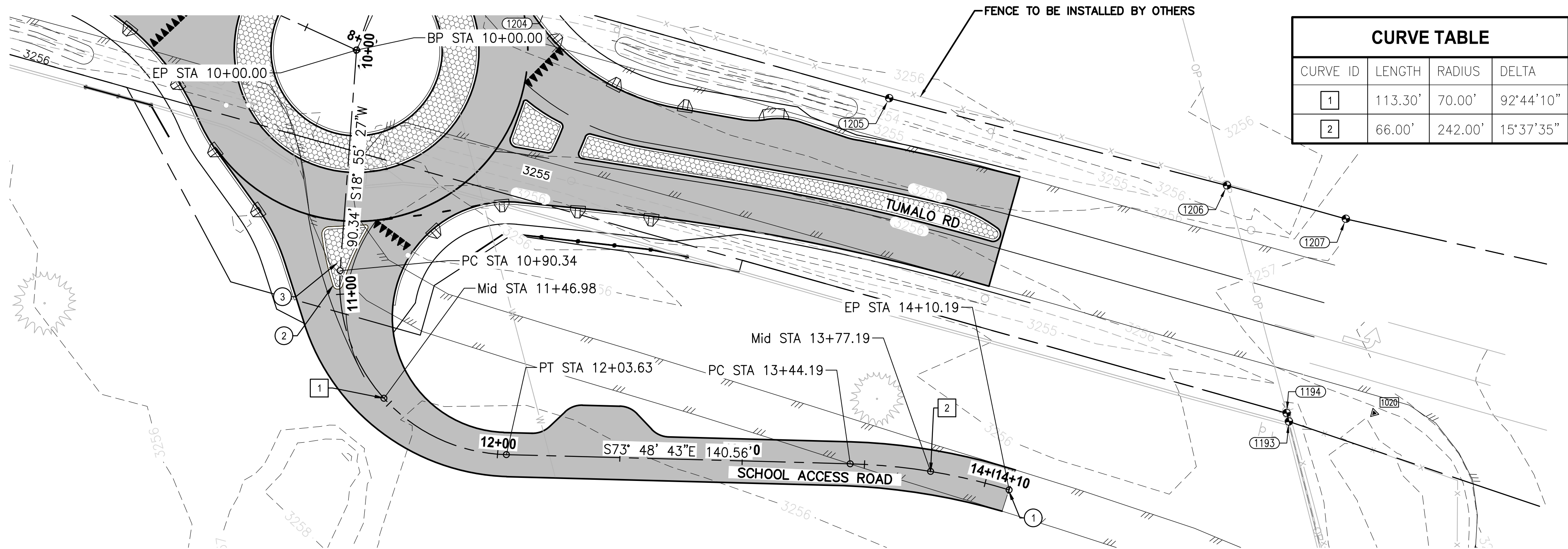
NORTH LEG - PLAN & PROFILE

DRAWING NO.  
11 OF 40

C7.2

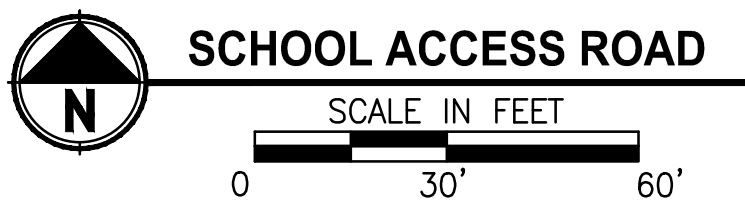
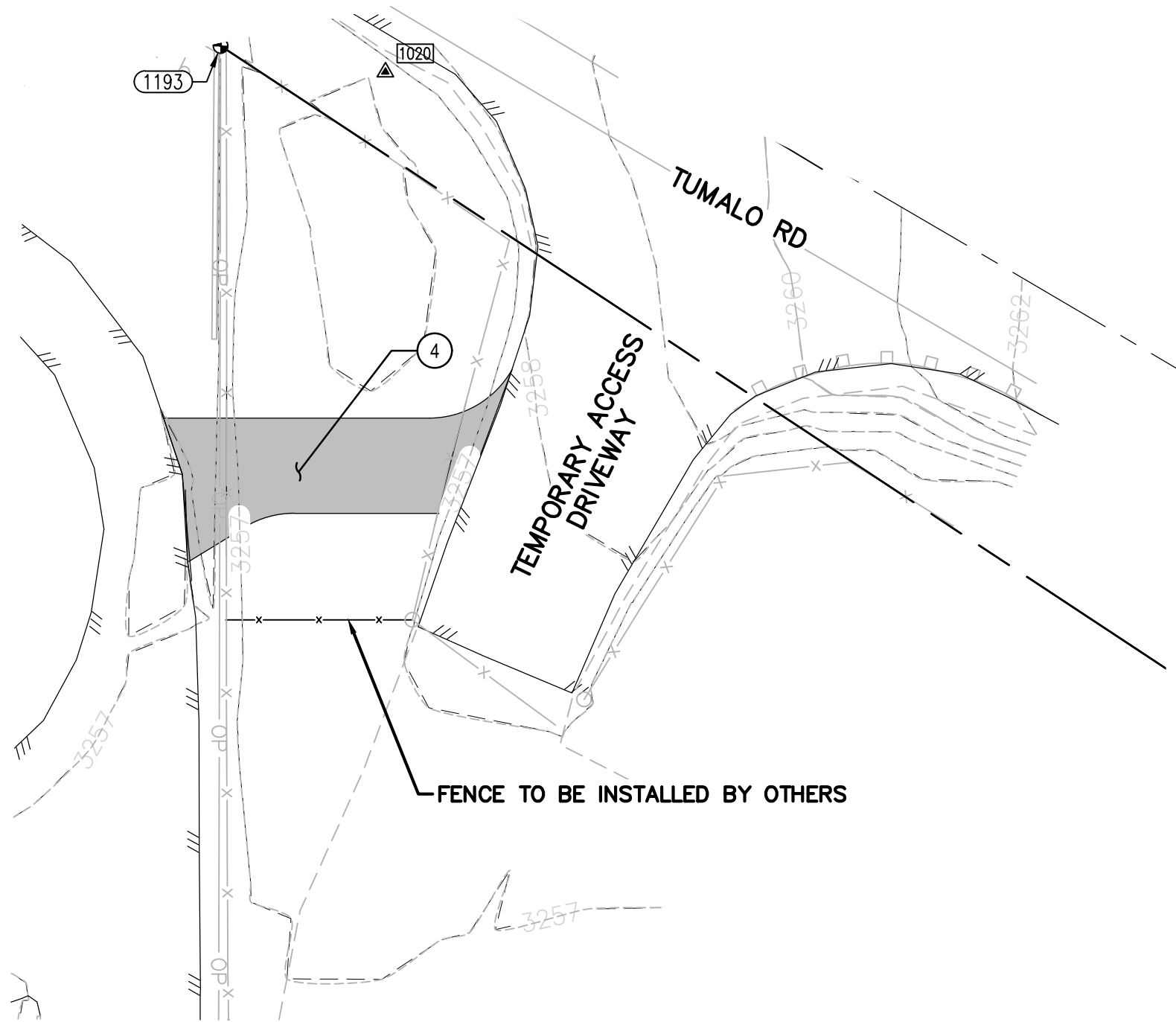
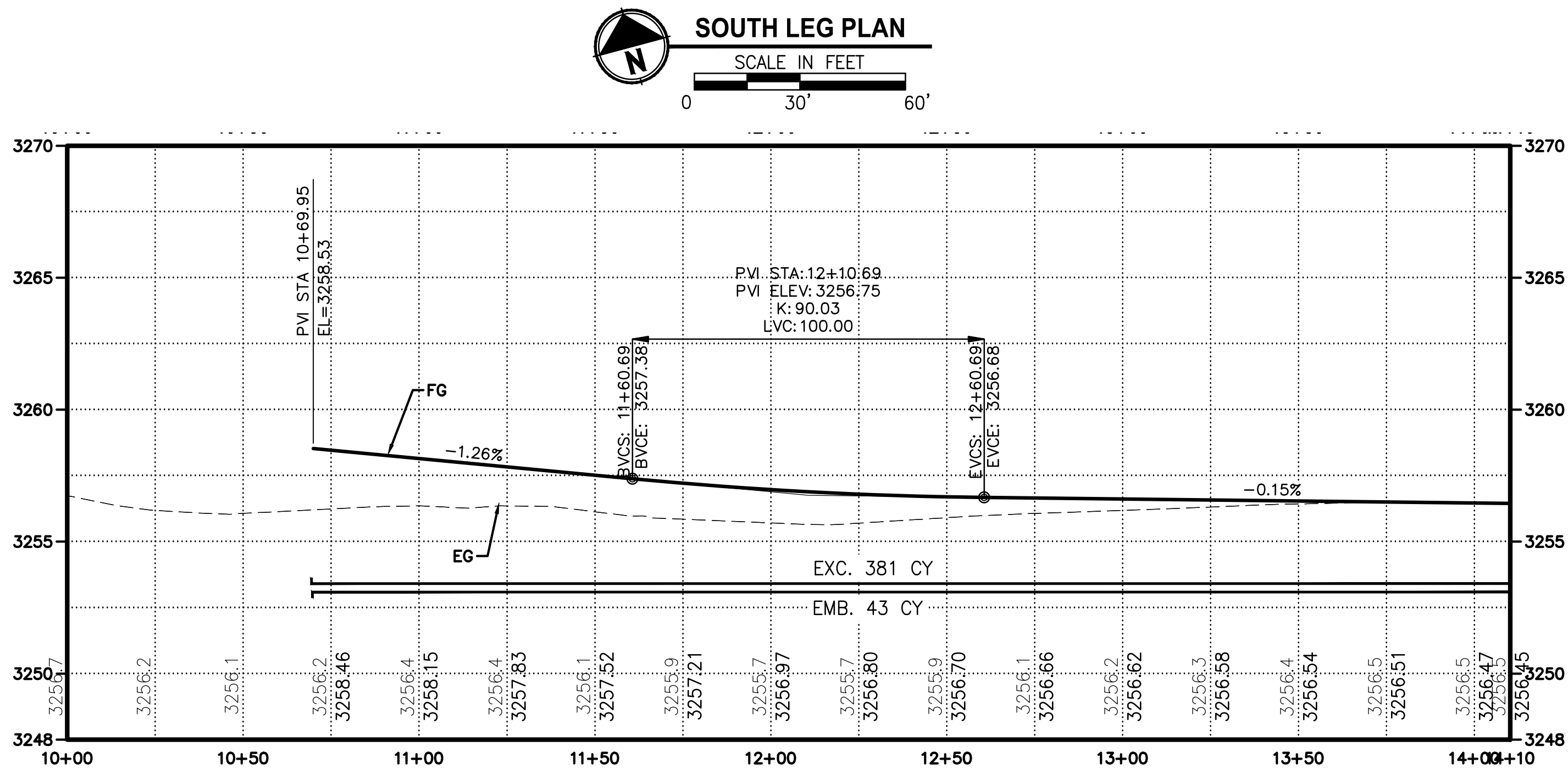


LAYOUT: C7.3 PLAN & PROFILE  
PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBPH Design Phase\95Sves\CADD\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl  
PLOTED BY: ricodov DATE: Wednesday, September 2, 2020 2:53:51 PM

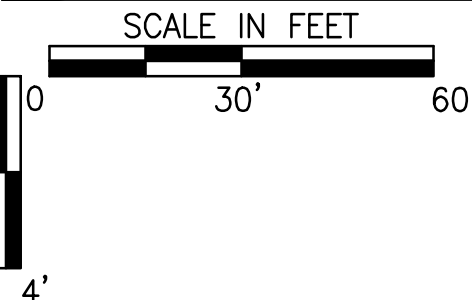


CURVE TABLE			
CURVE ID	LENGTH	RADIUS	DELTA
1	113.30'	70.00'	92°44'10"
2	66.00'	242.00'	15°37'35"

- ROAD CONSTRUCTION NOTES:
- END ROAD CONSTRUCTION STA:14+10
  - CONSTRUCT LOW PROFILE MOUNTABLE CURB (SEE DETAIL 1/C4.0)
  - CONSTRUCT STAMPED COLORED CONCRETE MEDIAN (SEE DETAIL 5/C4.0)
  - CONSTRUCT TEMPORARY ACCESS ROAD 2" OF AC OVER 6" OF 3/4"-0 AGGREGATE BASE.



SOUTH LEG PROFILE



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
BE25090005-C7.3-PP00

JOB NO.  
297-2509-005

DATE  
05/2020



PROJECT NAME

TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS

SOUTH LEG - PLAN & PROFILE

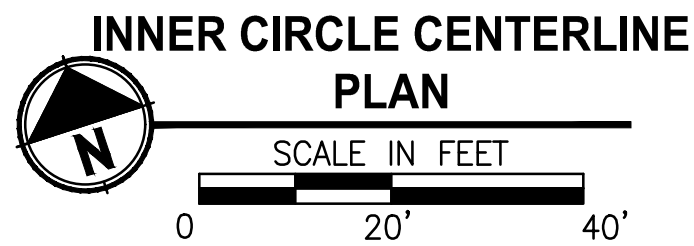
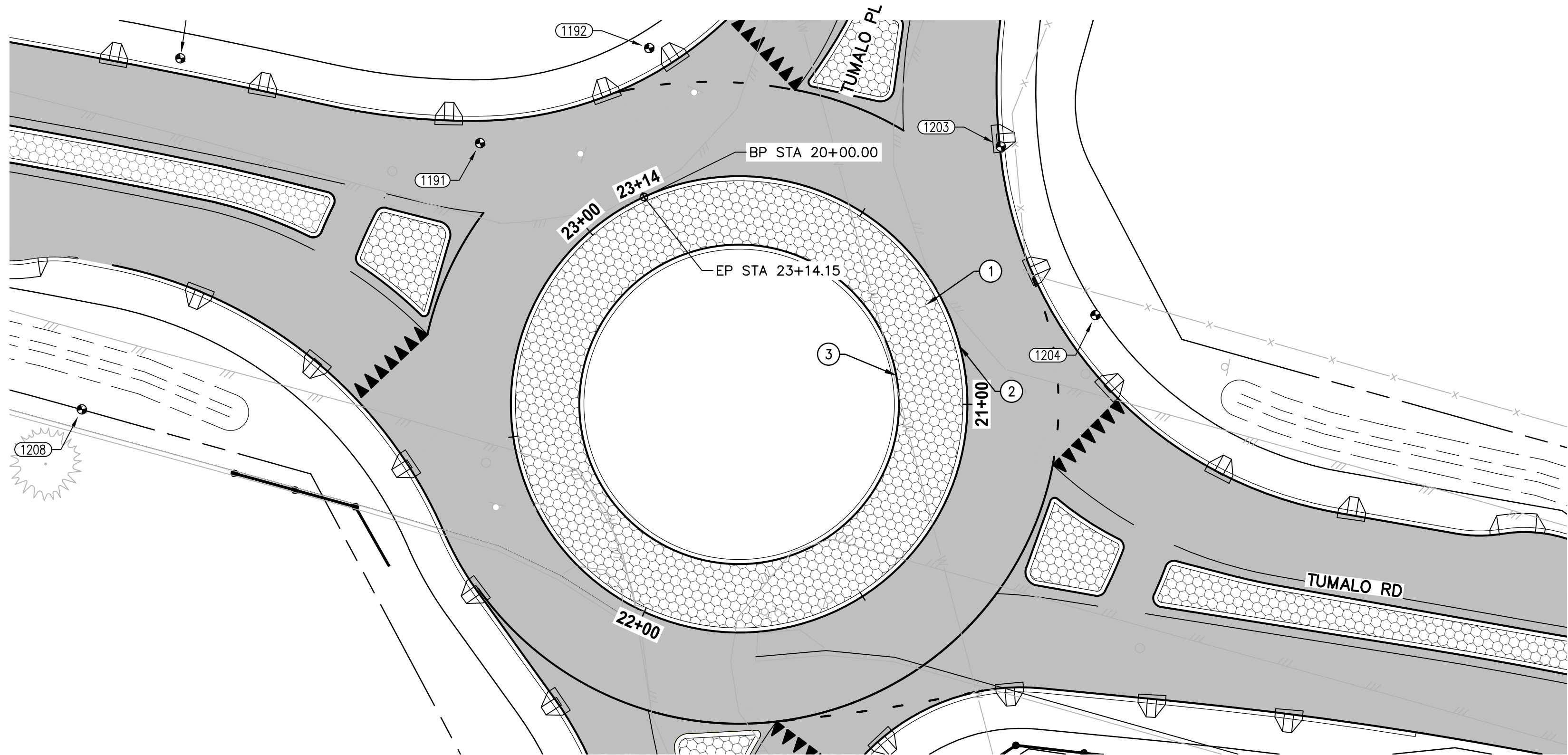
DRAWING NO.  
12 OF 40

C7.3

FOR BIDDING REFERENCE ONLY

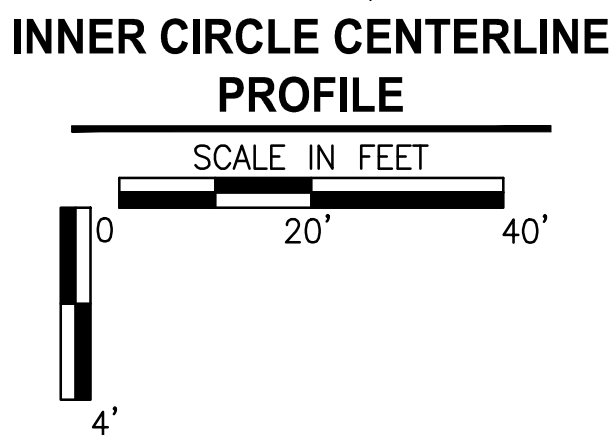
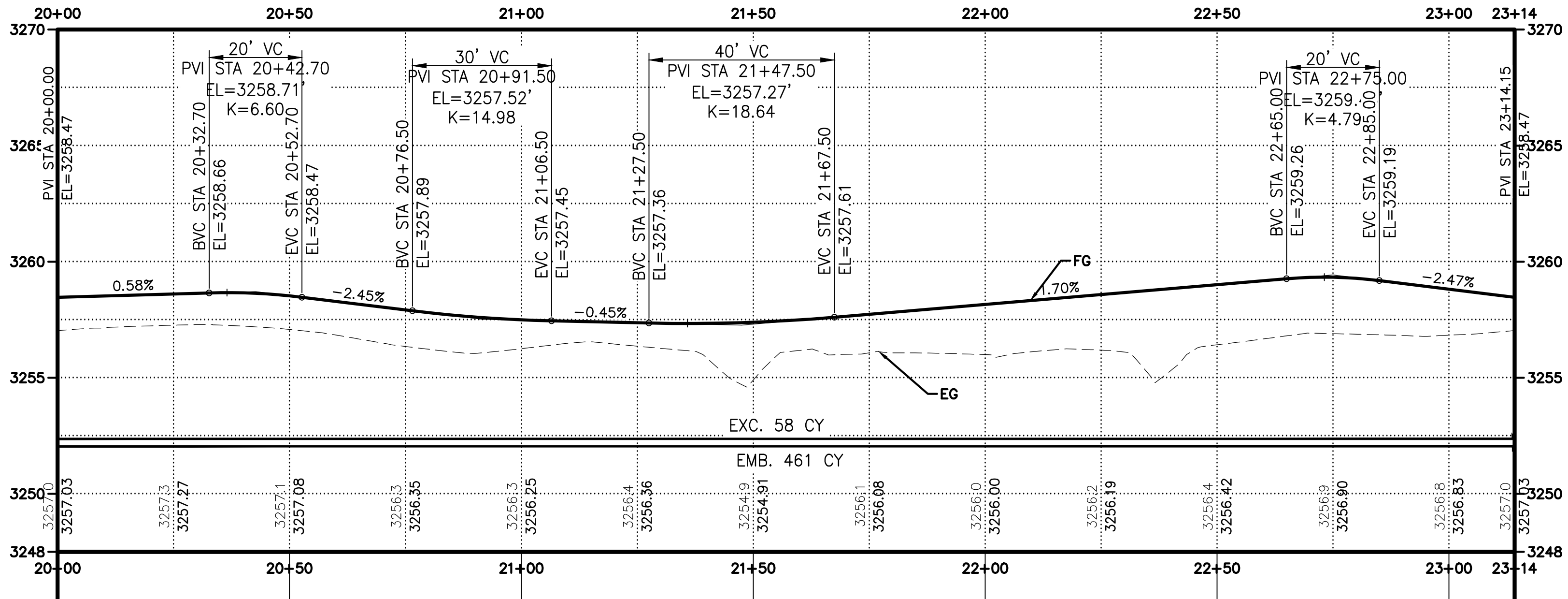


LAYOUT: C7.4 - PLAN & PROFILE      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBPH Design Phase\99Sves\CADD\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: ricodov      DATE: Wednesday, September 2, 2020 11:16:03 AM



ROAD CONSTRUCTION NOTES:

- ① CONSTRUCT STAMPED CONCRETE TRUCK APRON
- ② CONSTRUCT TRUCK APRON LOW PROFILE MOUNTABLE CURB PER 2/C4.0
- ③ CONSTRUCT WIDE MODIFIED CURB PER 6/C4.0



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE25090005-C7.4-PP00
JOB No.	297-2509-005
DATE	05/2020



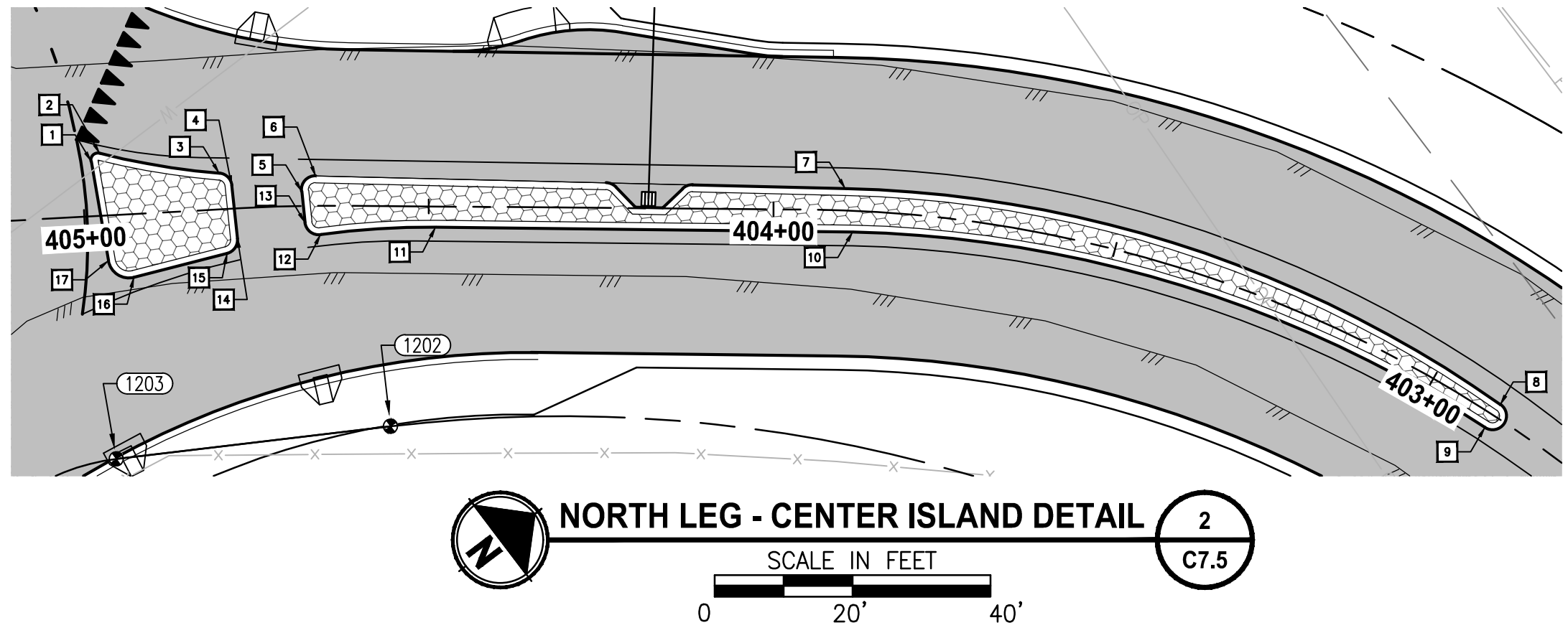
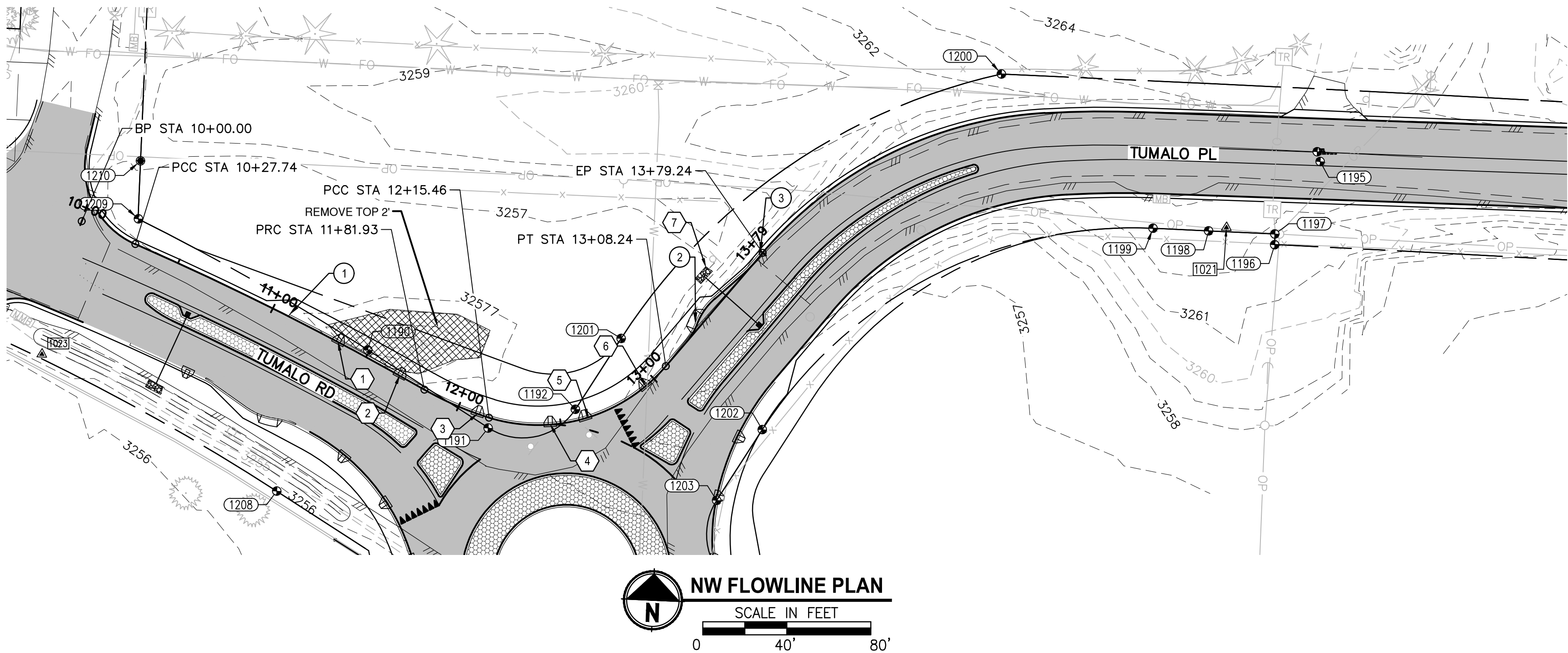
PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

INNER CIRCLE PLAN & PROFILE
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FOR BIDDING REFERENCE ONLY
DRAWING NO. 13 OF 40
C7.4



LAYOUT: C7.5 PLAN & PROFILE  
PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 DBFH Design Phase\99Sves\CADD\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl  
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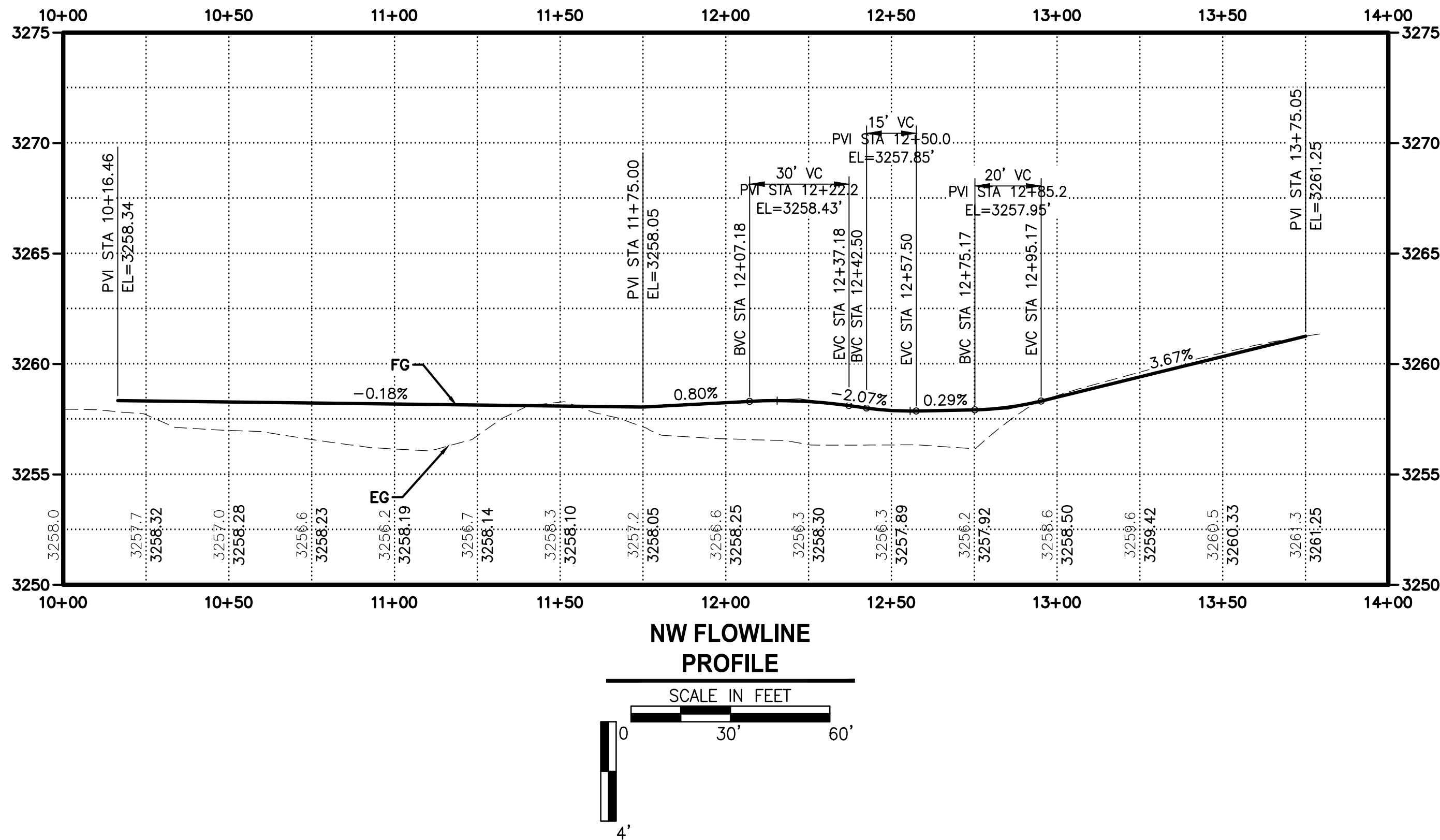


#### CONSTRUCTION NOTES:

- 1 CONSTRUCT LOW PROFILE MOUNTABLE CONCRETE CURB PER DETAIL 1/C4.0, STA: 11+08.4
- 2 CONSTRUCT BIKE EXIT PER SEE DETAIL 4/C4.0, STA: 13+34.20
- 3 END LOW PROFILE MOUNTABLE CURB, STA: 13+78.5

#### STORM CONSTRUCTION NOTES:

- 1 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 11+34.9
- 2 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 11+68.3
- 3 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 12+09.7
- 4 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 12+45
- 5 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 12+62.1
- 6 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 12+94.7
- 7 ARMOR PIPE OUTLET WITH 1.5 CUBIC YARD OF CLASS 50 RIP RAP PER ODOT STD DWG RD 317



STRUCTURE TABLE				
POINT	FACE OF CURB LOCATION	FLOWLINE ELEVATION	DESC	RADIUS
1	STA 404+99/7.99 RTT	3258.24'	PC	1'
2	STA 404+97/9.06 RTT	3258.21'	PRC	106.'
3	STA 404+80/5.25 RTT	3258.63'	PRC	2'
4	STA 404+78/3.37 RTT	3258.72'	PT	
5	STA 404+68/2.14 RTT	3259.02'	PC	2'
6	STA 404+66/4.32 RTT	3259.02'	PT	
7	STA 403+90/3.18 RTT	3261.19'	PC	172'
8	STA 402+90/1.85 RTT	3263.24'	PCC	2'
9	STA 402+90/2.15 LTT	3263.06'	PRC	178'
10	STA 403+88/3.08 LTT	3261.06'	PT	
11	STA 404+49/3.02 LTT	3259.44'	PC	112'
12	STA 404+66/4.18 LTT	3258.99'	PRC	2'
13	STA 404+68/2.38 LTT	3258.99'	PT	
14	STA 404+78/4.37 LTT	3258.69'	PC	2'
15	STA 404+80/6.43 LTT	3258.59'	PT	
16	STA 404+93/9.15 LTT	3258.19'	PC	3'
17	STA 404+97/6.56 LTT	3258.17'	PT	

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE25090005-C7.5-PP00
JOB NO. 297-2509-005
DATE 05/2020



PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

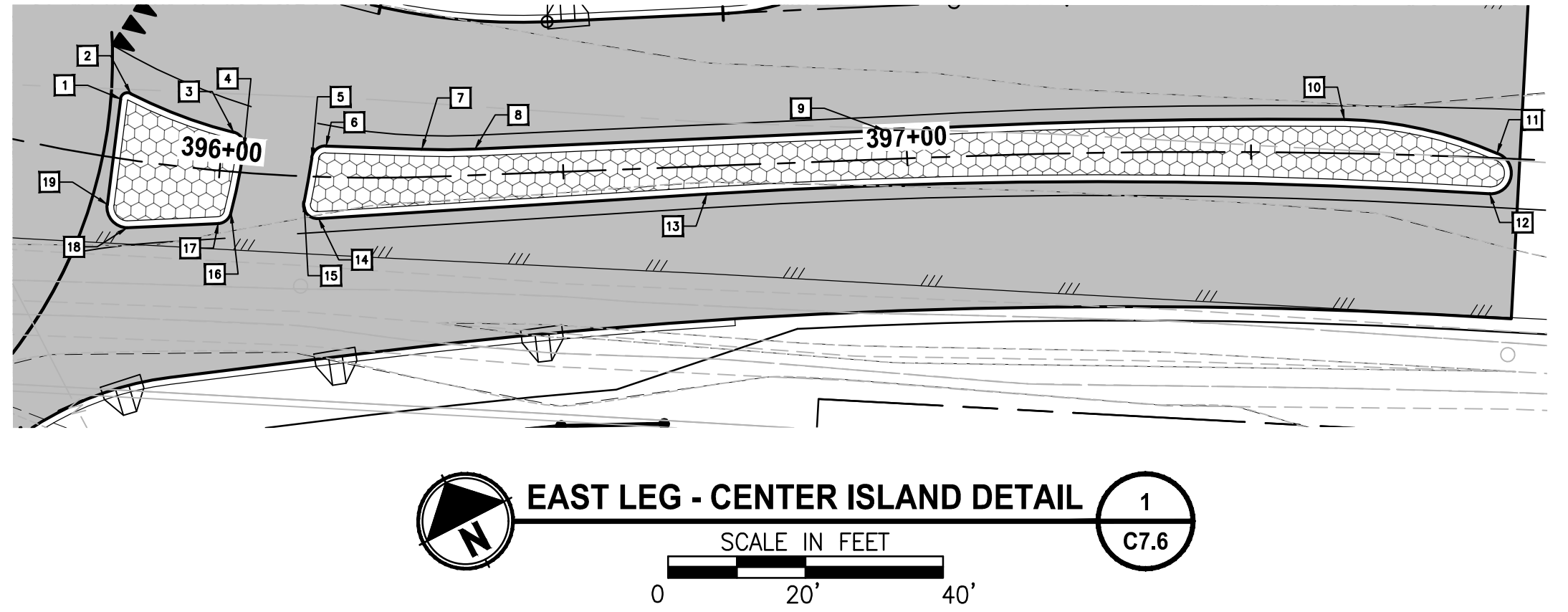
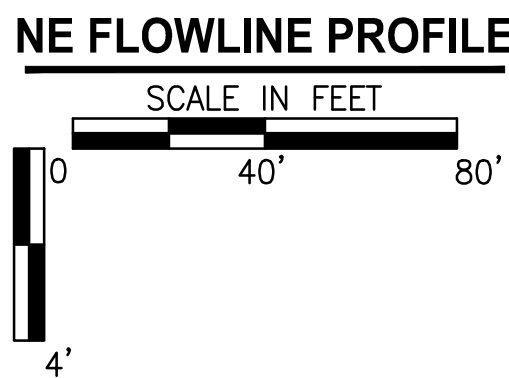
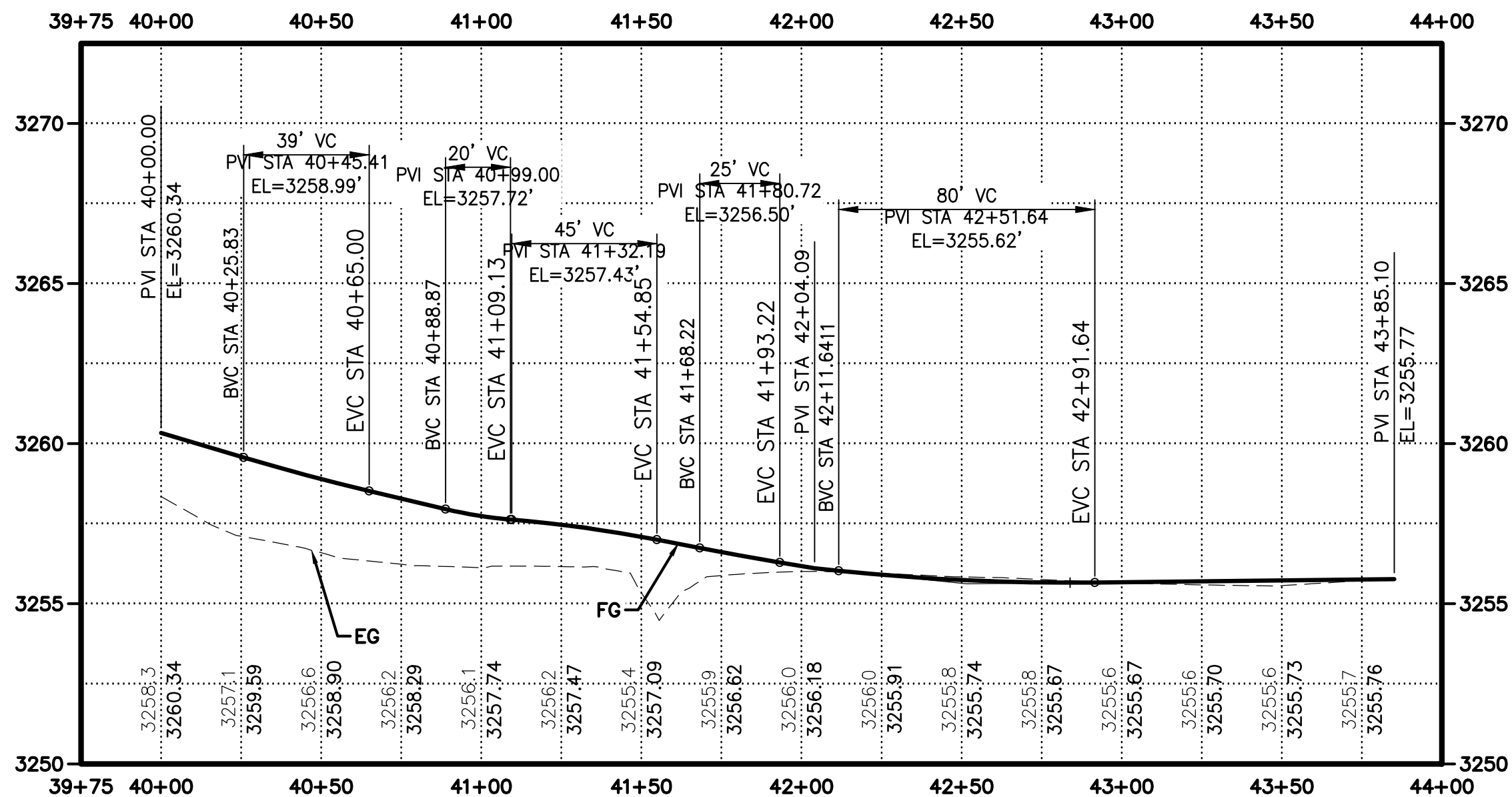
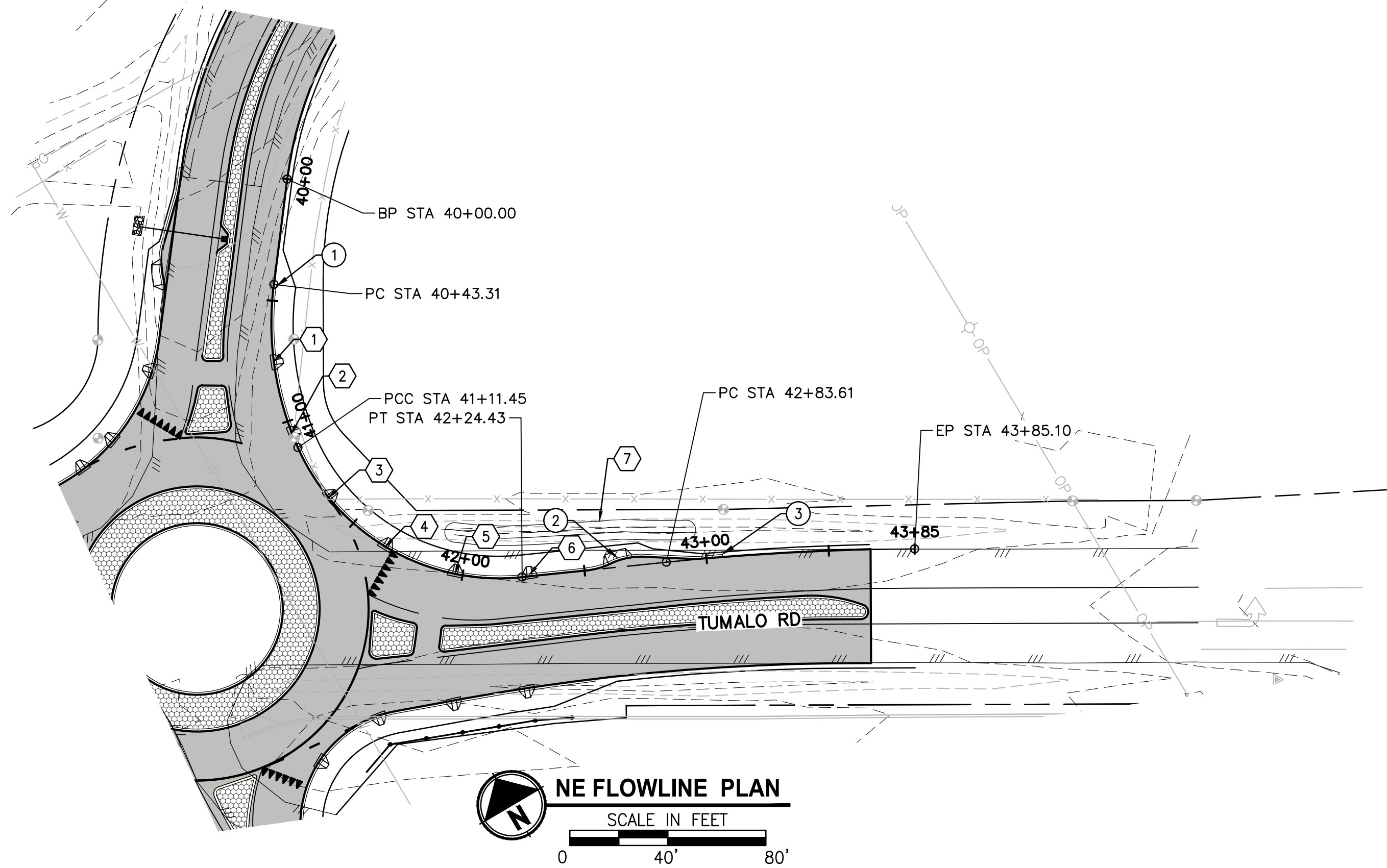
#### NW FLOWLINE PLAN & PROFILE

DRAWING NO.  
15 OF 40

C7.5



PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBPH Design Phase\99Sves\CADD\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl PLOTTED BY: ricodov DATE: Wednesday, September 2, 2020 12:02:38 PM LAYOUT: C7.6 PLAN & PROFILE



- CONSTRUCTION NOTES:**
- ① CONSTRUCT LOW PROFILE MOUNTABLE CURB PER DETAIL 1/C4.0, STA: 40+43.3
  - ② CONSTRUCT BIKE EXIT RAMP PER DETAIL 4/C4.0, STA: 42+63.9
  - ③ END LOW PROFILE MOUNTABLE CURB, STA:43+06.6

- STORM CONSTRUCTION NOTES:**
- ① INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 40+75.1
  - ② INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 41+05.3
  - ③ INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 41+35.9
  - ④ INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 41+66.3
  - ⑤ INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 41+96.8
  - ⑥ INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 42+27.4
  - ⑦ CONSTRUCT WATER QUALITY SWALE PER DETAIL 7/C4.0

STRUCTURE TABLE				
POINT	FACE OF CURB LOCATION	FLOWLINE ELEVATION	DESC	RADIUS
1	STA 395+84/8.57 LTT	3256.96'	PC	1'
2	STA 395+86/9.55 LTT	3256.92'	PRC	71'
3	STA 396+02/5.71 LTT	3256.76'	PRC	2'
4	STA 396+03/3.62 LTT	3256.76'	PCC	90'
5	STA 396+13/2.73 LTT	3256.67'	PRC	2'
6	STA 396+15/4.51 LTT	3256.62'	PT	
7	STA 396+30/4.05 LTT	3256.48'	PC	97'
8	STA 396+37/3.81 LTT	3256.41'	PT	
9	STA 396+97/4.18 LTT	3256.03'	PC	998'
10	STA 397+63/4.89 LTT	3256.07'	PCC	58.70'
11	STA 397+86/0.64 LTT	3256.23'	PCC	3'
12	STA 397+85/5.24 RTT	3256.14'	PRC	913'
13	STA 396+71/4.05 RTT	3256.12'	PT	
14	STA 396+15/6.06 RTT	3256.57'	PC	2'
15	STA 396+12/3.73 RTT	3256.64'	PRC	100'
16	STA 396+02/6.02 RTT	3256.70'	PCC	2'
17	STA 396+00/7.67 RTT	3256.68'	PT	
18	STA 395+88/9.80 RTT	3256.81'	PC	3'
19	STA 395+85/6.88 RTT	3256.90'	PT	

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE25090005-C7.6-PP00
JOB No. 297-2509-005
DATE 05/2020



PROJECT NAME  TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS
--

## NE FLOWLINE PLAN & PROFILE

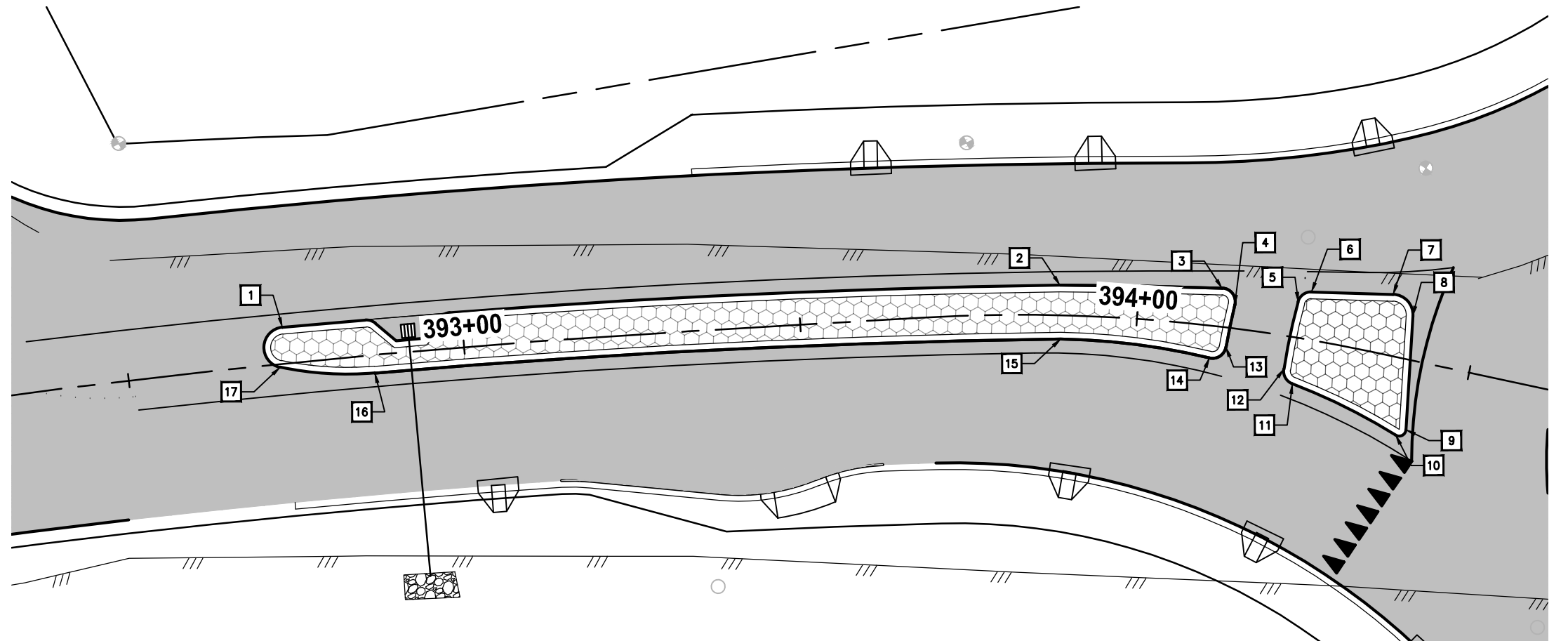
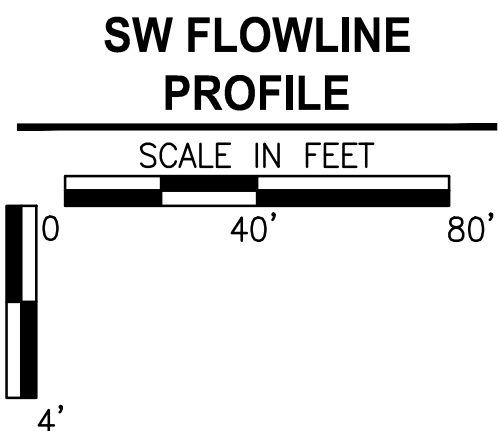
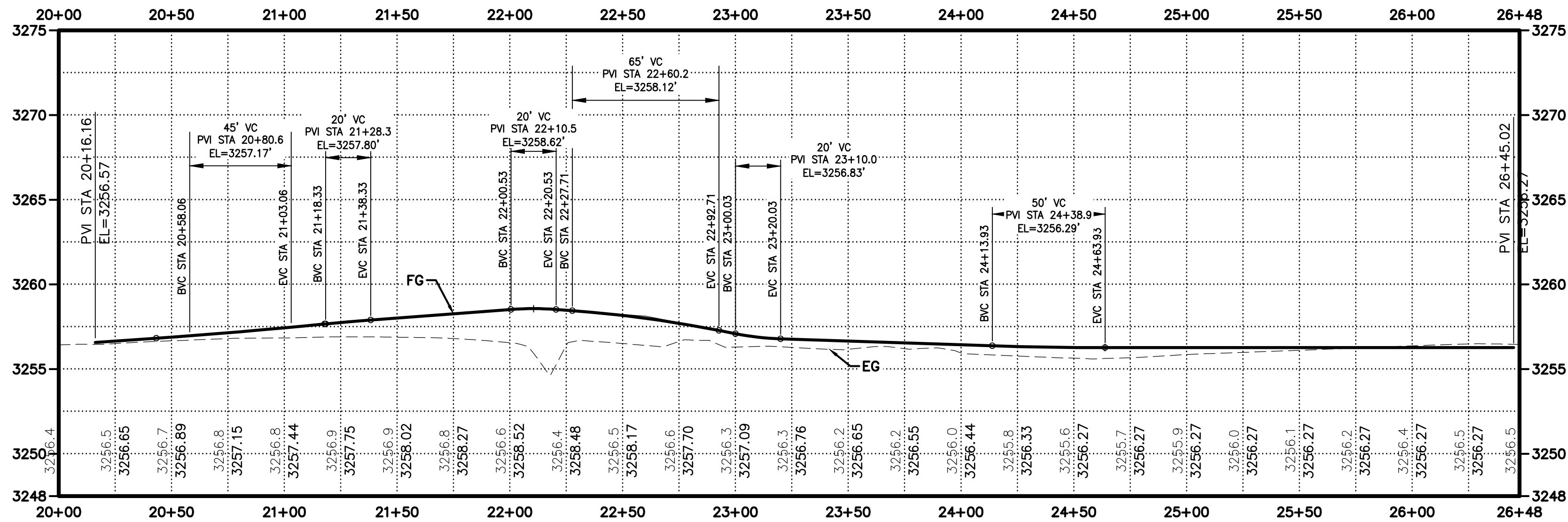
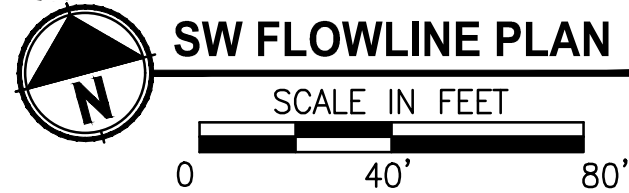
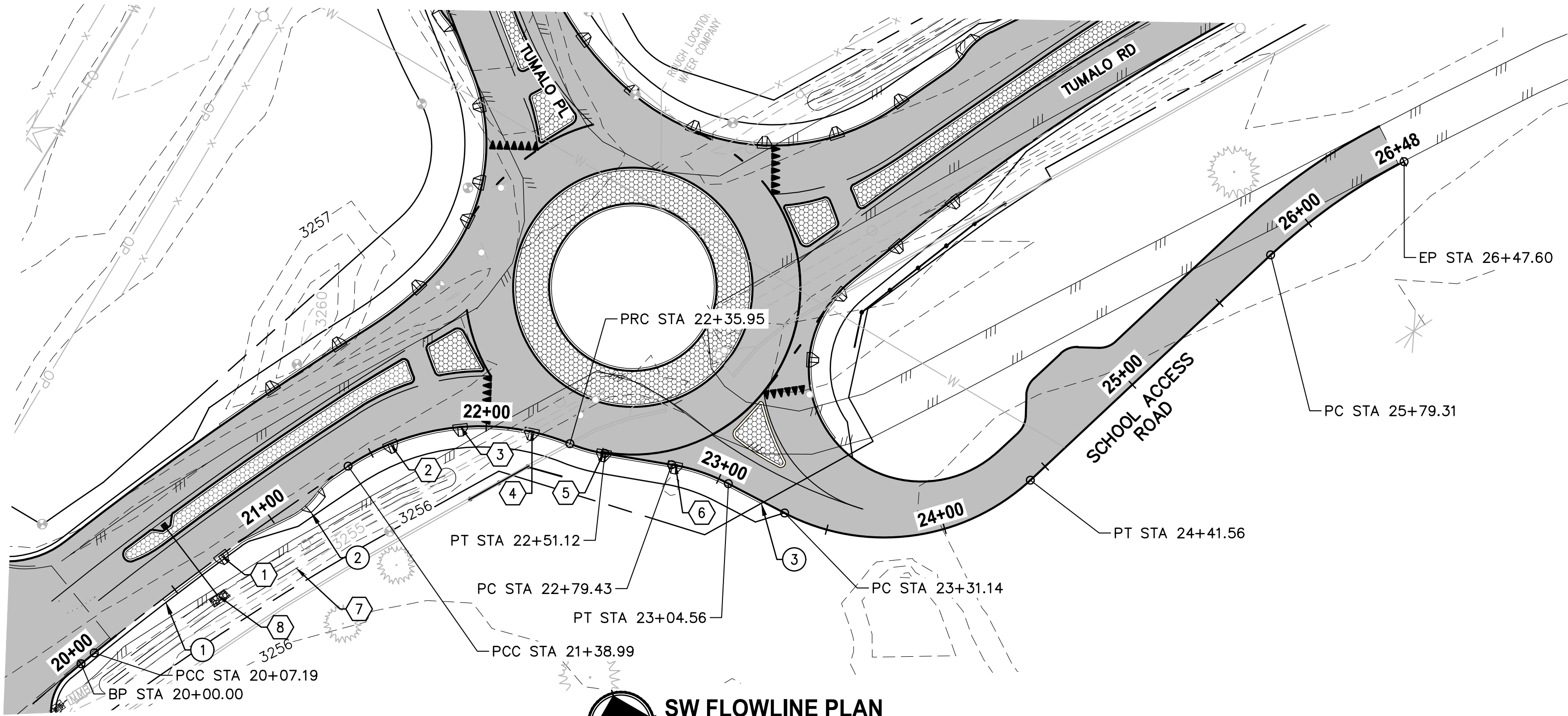
DRAWING NO.  
16 OF 40

C7.6

FOR BIDDING REFERENCE ONLY



LAYOUT: C7.7 PLAN & PROFILE  
 PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBRH Design Phase\995\cadd\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl  
 PLOTTED BY: ricodov DATE: Wednesday, September 2, 2020 12:04:26 PM



CONSTRUCTION NOTES:

- 1 CONSTRUCT LOW PROFILE MOUNTABLE CURB PER DETAIL 1/C4.0, STA: 20+43.7
- 2 CONSTRUCT BIKE EXIT PER DETAIL 4/C4.0 STA: 21+17.3
- 3 END LOW PROFILE MOUNTABLE CURB, STA: 23+26.7

STORM CONSTRUCTION NOTES:

- 1 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 20+73.9
- 2 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 21+58.8
- 3 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 21+89.1
- 4 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 22+19.2
- 5 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 22+50.6
- 6 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 22+81
- 7 CONSTRUCT WATER QUALITY SWALE PER DETAIL 7/C4.0
- 8 ARMOR PIPE OUTLET WITH 1.5 CUBIC YARDS OF CLASS 50 RIPRAP PER ODOT STD DWG RD 317

STRUCTURE TABLE				
POINT	FACE OF CURB LOCATION	FLOWLINE ELEVATION	DESC	RADIUS
1	STA 392+73/5.37 LTT	3257.80'	PCC	1407'
2	STA 393+88/4.46 LTT	3258.39'	PCC	710.7'
3	STA 394+12/5.69 LTT	3258.53'	PCC	2'
4	STA 394+14/3.47 LTT	3258.59'	PRC	100'
5	STA 394+23/5.24 LTT	3258.63'	PCC	2'
6	STA 394+25/7.02 LTT	3258.61'	PT	
7	STA 394+37/8.99 LTT	3258.69'	PC	3'
8	STA 394+40/6.49 LTT	3258.76'	PT	
9	STA 394+43/10.24 RTT	3258.86'	PC	1'
10	STA 394+41/11.33 RTT	3258.82'	PRC	91.80'
11	STA 394+24/6.87 RTT	3258.65'	PRC	2'
12	STA 394+23/4.93 RTT	3258.66'	PCC	90'
13	STA 394+14/2.92 RTT	3258.61'	PRC	2'
14	STA 394+11/4.80 RTT	3258.57'	PRC	100.15'
15	STA 393+89/3.53 RTT	3258.41'	PCC	1399'
16	STA 392+86/2.70 RTT	3257.63'	PRC	48'
17	STA 392+73/0.49 RTT	3257.64'	PCC	3'

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE25090005-C7.7-PP00
JOB No.	297-2509-005
DATE	05/2020



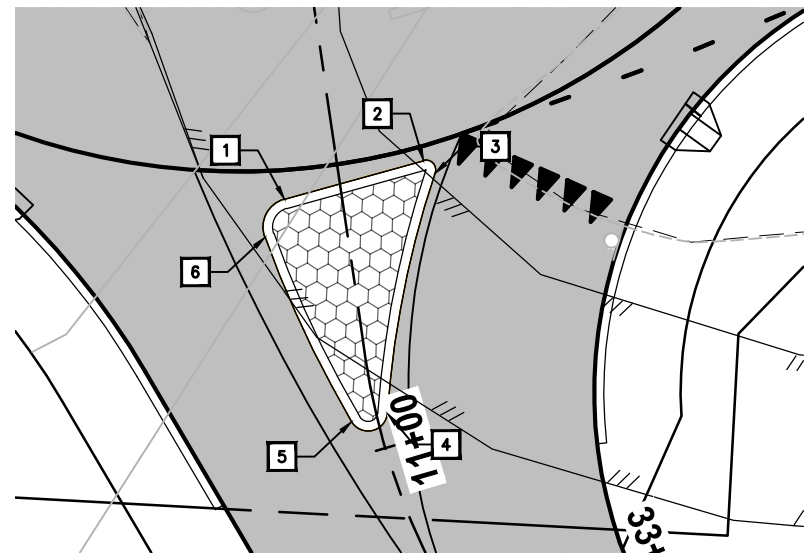
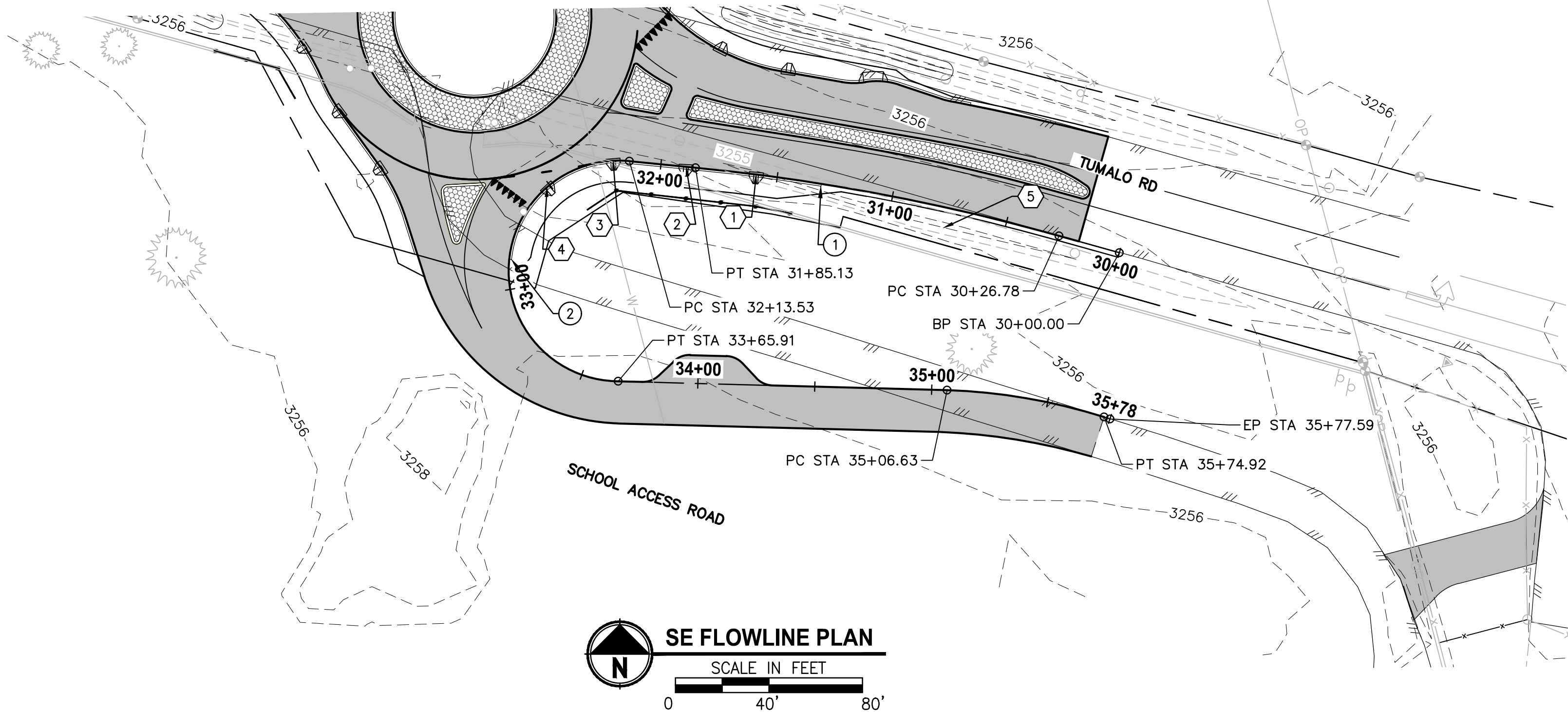
PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

SW FLOWLINE PLAN & PROFILE
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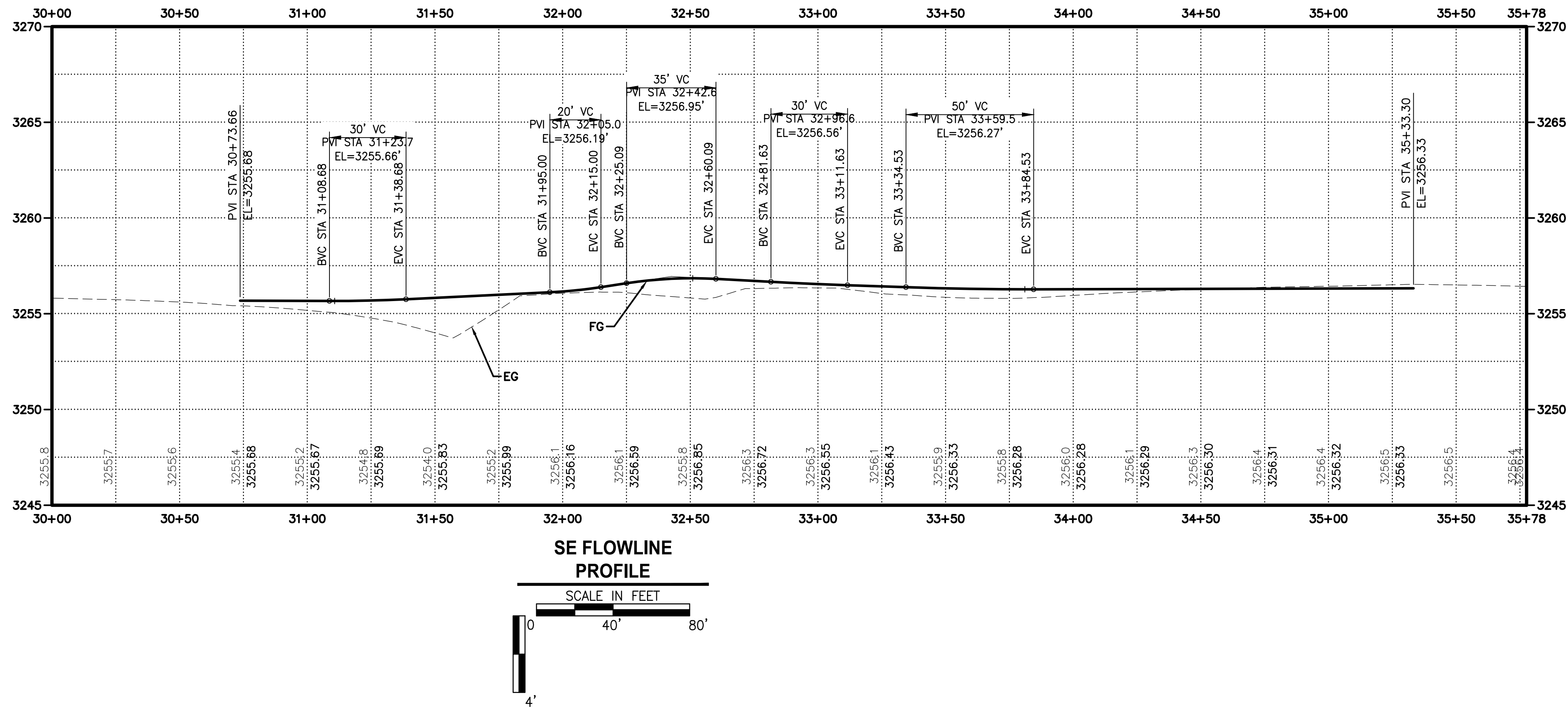
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C7.7



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LAYOUT: C7.8 PLAN & PROFILE  
PLOTTED BY: ricodov DATE: Wednesday, September 2, 2020 12:06:07 PM



STRUCTURE TABLE				
POINT	FACE OF CURB LOCATION	FLOWLINE ELEVATION	DESC	RADIUS
1	STA 10+73/5.95 RTT	3257.31'	PT	
2	STA 10+71/8.97 LTT	3257.23'	PC	1'
3	STA 10+72/9.95 LTT	3257.19'	PRC	103.54'
4	STA 10+97/1.14 LTT	3257.10'	PRC	2'
5	STA 10+96/2.68 RTT	3257.08'	PCC	113.40'
6	STA 10+76/8.52 RTT	3257.26'	PCC	3'



CONSTRUCTION NOTES:

- 1 CONSTRUCT LOW PROFILE MOUNTABLE CURB PER DETAIL 1/C4.0, STA: 31+30.9
- 2 END LOW PROFILE MOUNTABLE CURB, STA: 32+87.1

STORM CONSTRUCTION NOTES:

- 1 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 31+59.0
- 2 INSTALL CURB CUT PER DETAIL 9/C4.0 STA: 31+89.2
- 3 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 32+20.7
- 4 INSTALL CURB CUT PER DETAIL 9/C4.0, STA: 32+51.7
- 5 CONSTRUCT WATER QUALITY SWALE PER DETAIL 7/C4.0

FOR BIDDING REFERENCE ONLY

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE25090005-C7.8-PP00
JOB No.	297-2509-005
DATE	05/2020



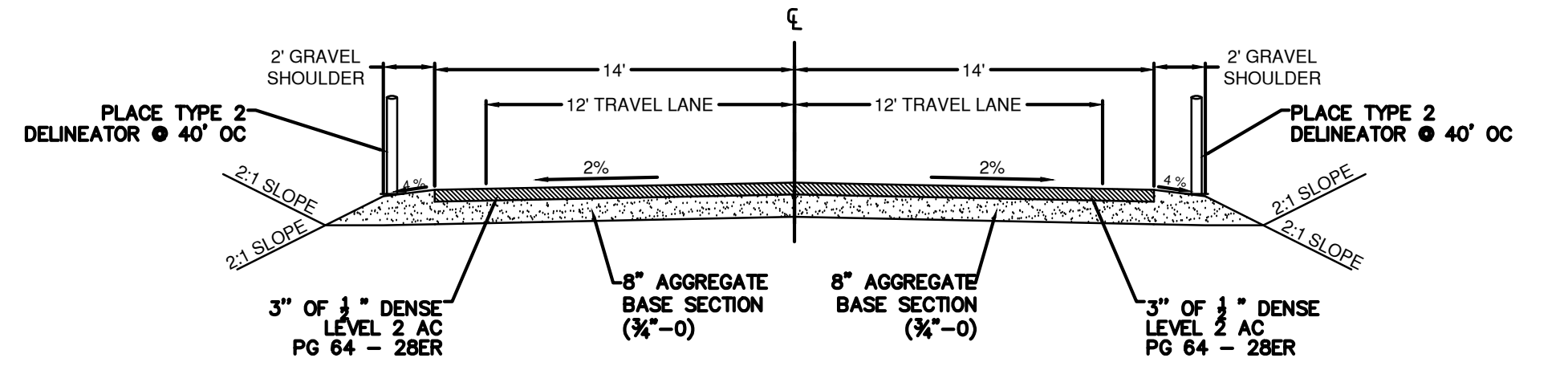
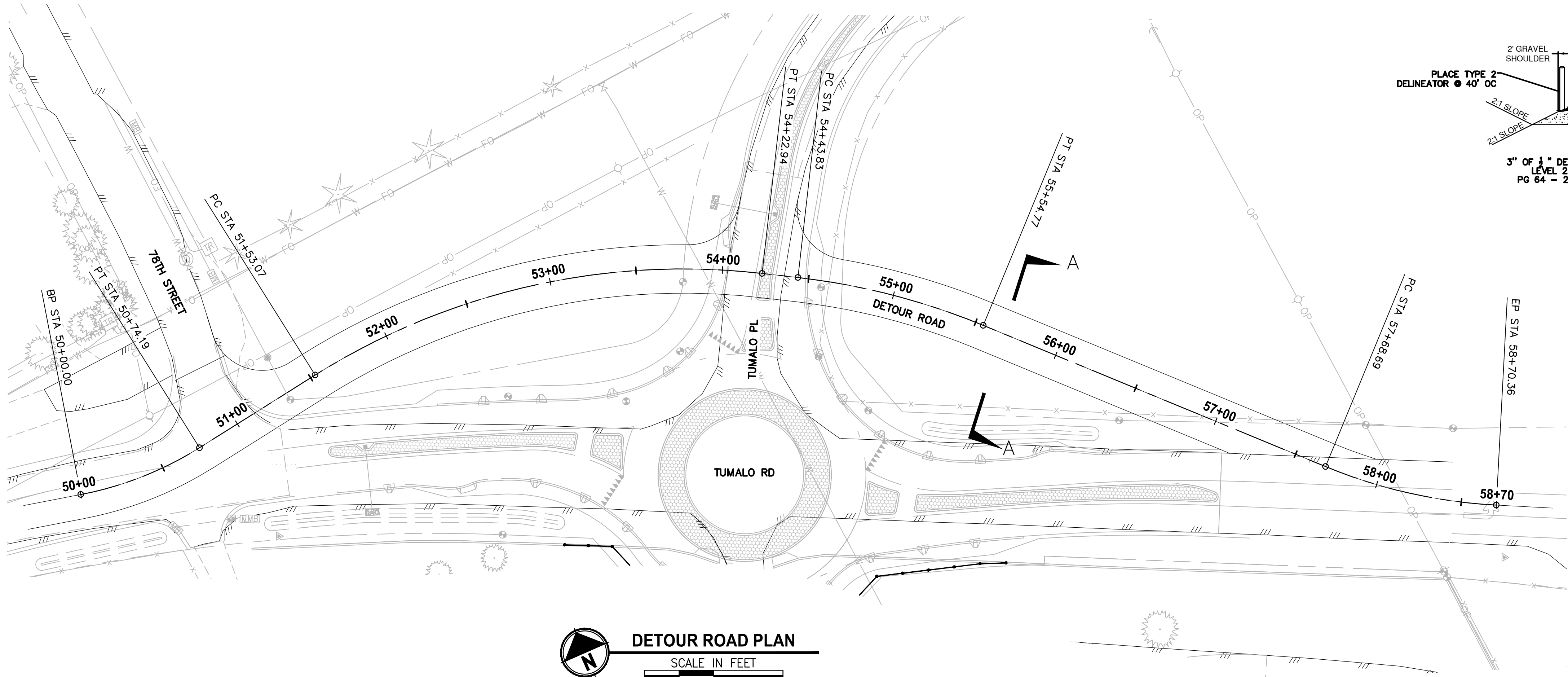
PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

SE FLOWLINE PLAN & PROFILE
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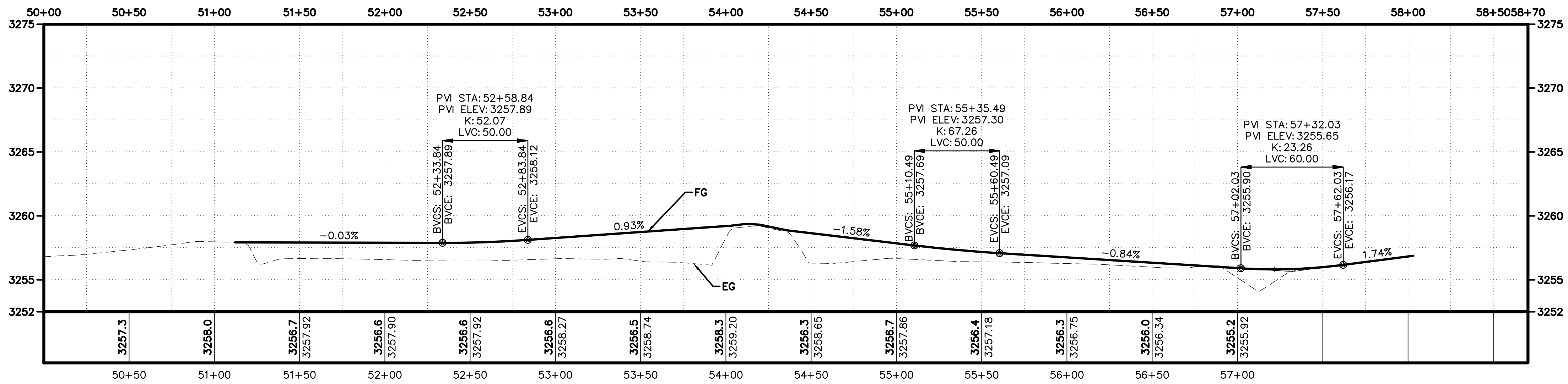
DRAWING NO. 18 OF 40
C7.8



LAYOUT: C7.9 PLAN & PROFILE  
PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OBRI Design Phase\995vcs\CADD\DWG\TUMALO RD\RBAs\CD'S\Tumalo rd-Tumalo pl  
PLOTTED BY: ricodav DATE: Wednesday, September 2, 2020 1:53:41 PM



SECTION A  
N.T.S.



DETOUR ROAD PROFILE  
SCALE IN FEET  
0 40' 80'

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE2509005-C7.9-PP00
JOB No. 297-2509-005
DATE 05/2020



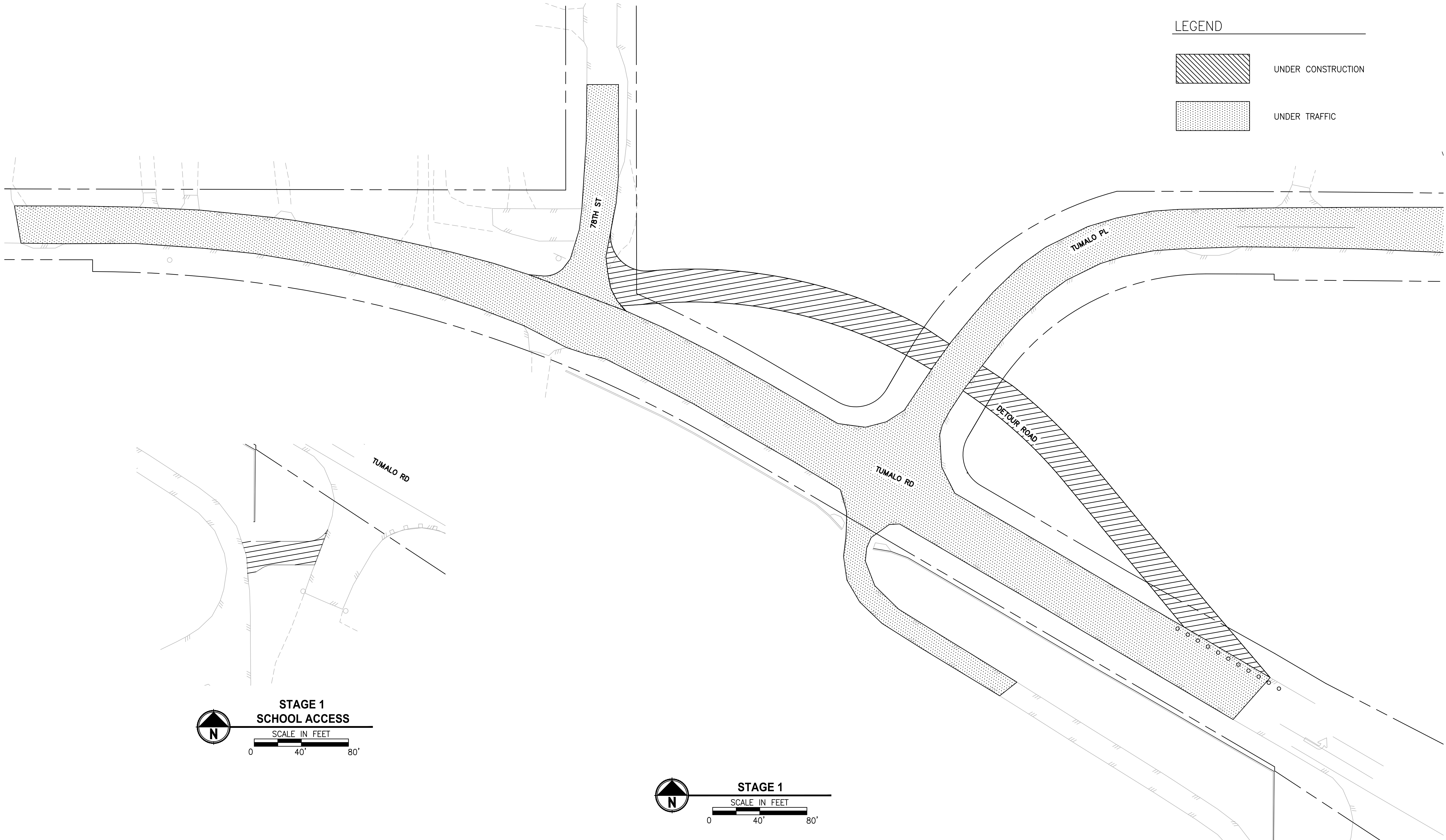
PROJECT NAME  TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS
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FOR BIDDING REFERENCE ONLY
DETOUR ROAD PLAN & PROFILE

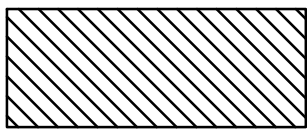
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C7.9

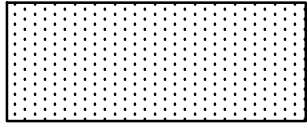


LAYOUT: C8.0-STAGING PLAN-STAGE 1      PATH: U:\Berd\Projects\Clients\2509-Deschutes County\297-2509-005 OBRH Design Phase\99Svcs\CADD\DWG\TUMALO RD REAS\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: ricodov      DATE: Wednesday, September 2, 2020 1:04:14 PM



LEGEND

 UNDER CONSTRUCTION

 UNDER TRAFFIC

**STAGE 1  
SCHOOL ACCESS**

SCALE IN FEET

0 40' 80'

**STAGE 1**

SCALE IN FEET

0 40' 80'

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
BE2509005-C7.210-ST00

JOB No.  
297-2509-005

DATE  
05/2020



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**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

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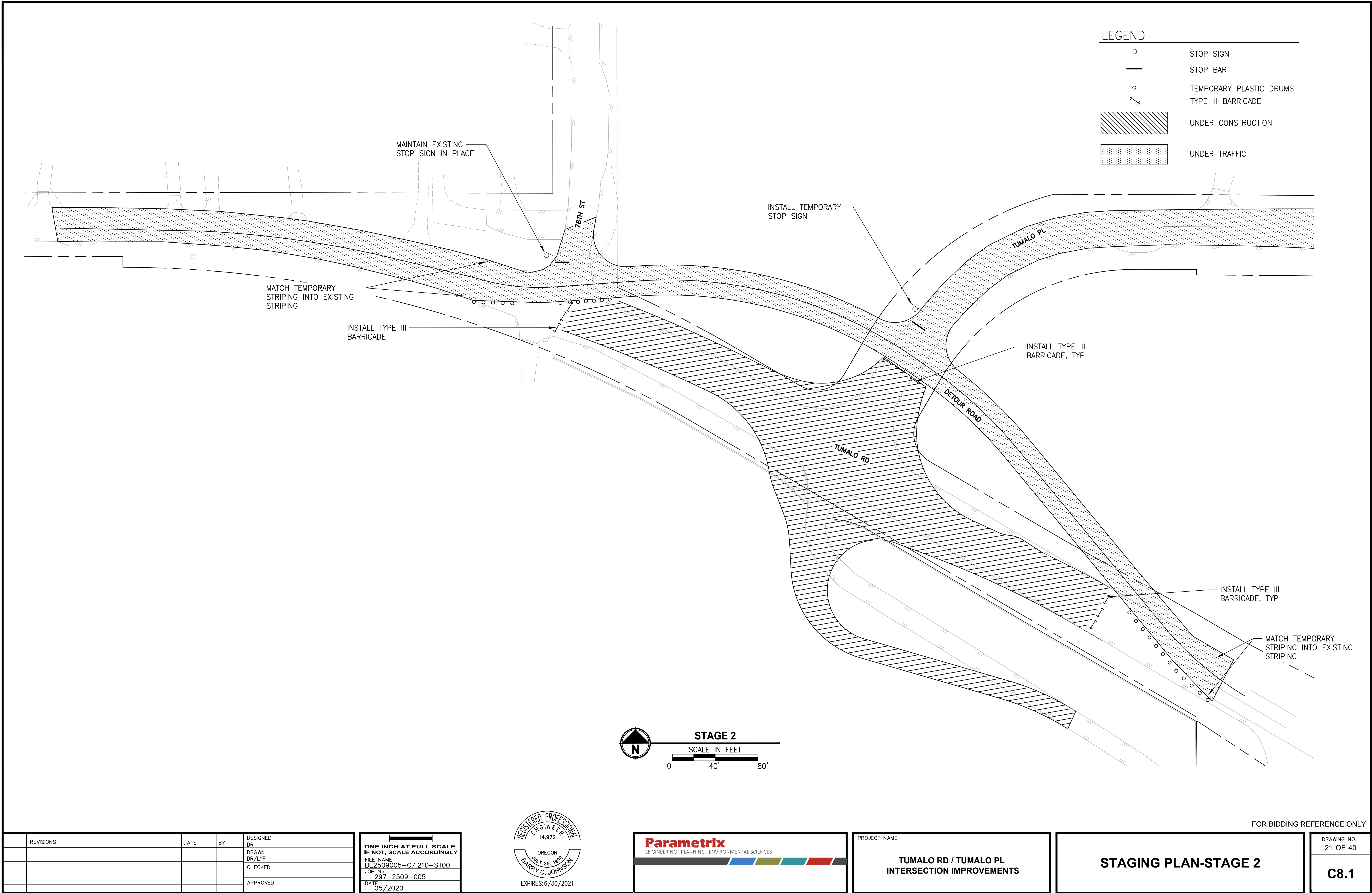
**STAGING PLAN-STAGE 1**

DRAWING NO.  
X OF 40

**C8.0**



LAYOUT: C8.1-STAGING PLAN-STAGE 2      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OGBH Design Phase\99Sves\CADD\DWG\TUMALO RD REAS\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: ricodav      DATE: Wednesday, September 2, 2020 3:05:50 PM



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

<b>ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY</b>	
FILE NAME	BE2509005-C7.210-ST00
JOB No.	297-2509-005
DATE	05/2020



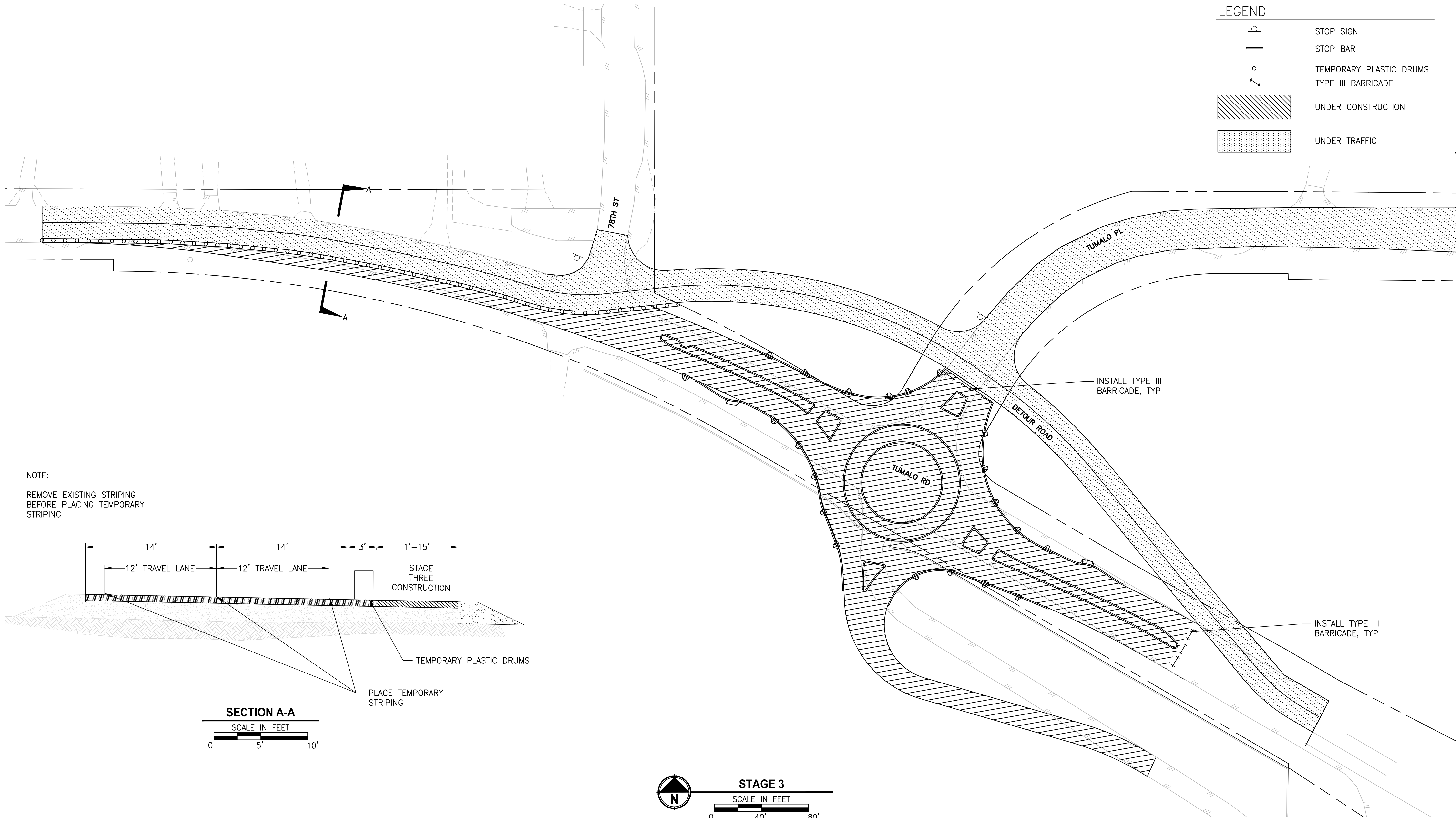
PROJECT NAME
<b>TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS</b>

<b>STAGING PLAN-STAGE 2</b>
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DRAWING NO. 21 OF 40
<b>C8.1</b>

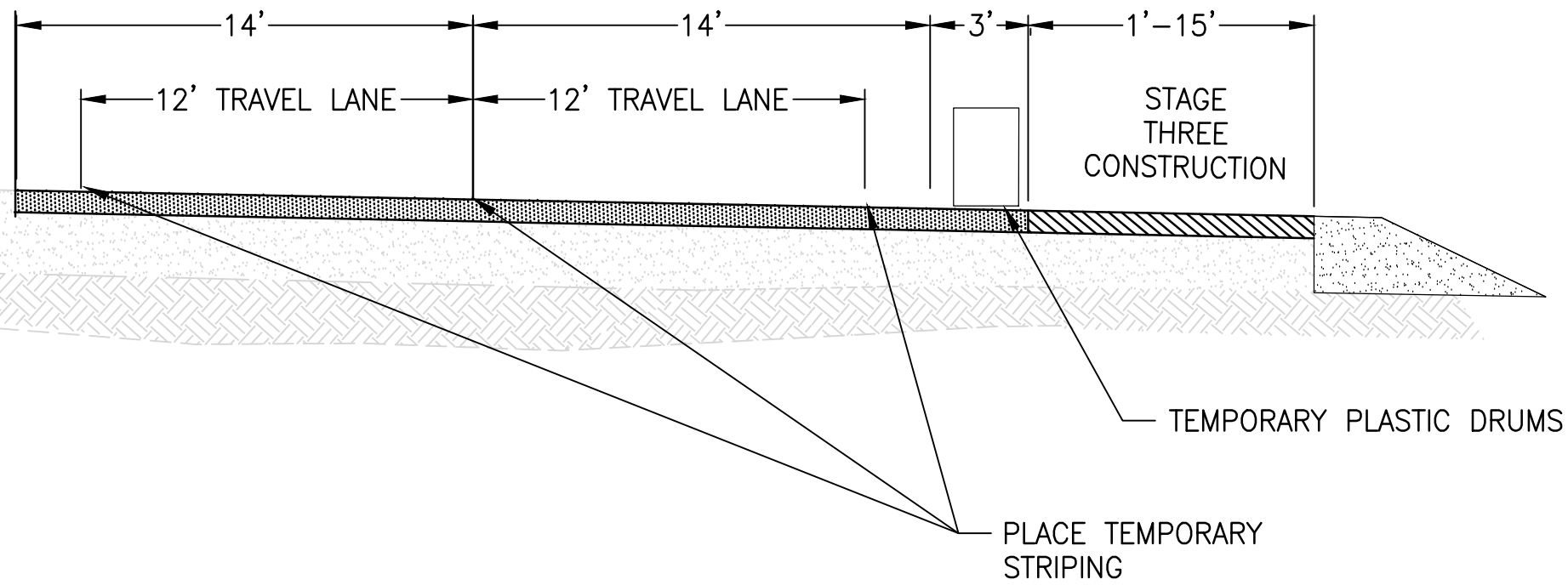


LAYOUT: C8.2-STAGING PLAN-STAGE 3      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OERH Design Phase\99Svc\CADD\DWG\TUMALO RD\_RBA\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: rcodev      DATE: Wednesday, September 2, 2020 3:08:17 PM



LEGEND	
	STOP SIGN
	STOP BAR
	TEMPORARY PLASTIC DRUMS
	TYPE III BARRICADE
	UNDER CONSTRUCTION
	UNDER TRAFFIC

NOTE:  
REMOVE EXISTING STRIPING  
BEFORE PLACING TEMPORARY  
STRIPING



SECTION A-A  
SCALE IN FEET  
0 5 10

STAGE 3  
SCALE IN FEET  
0 40 80

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE2509005-C7.210-ST00
JOB No.	297-2509-005
DATE	05/2020



PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

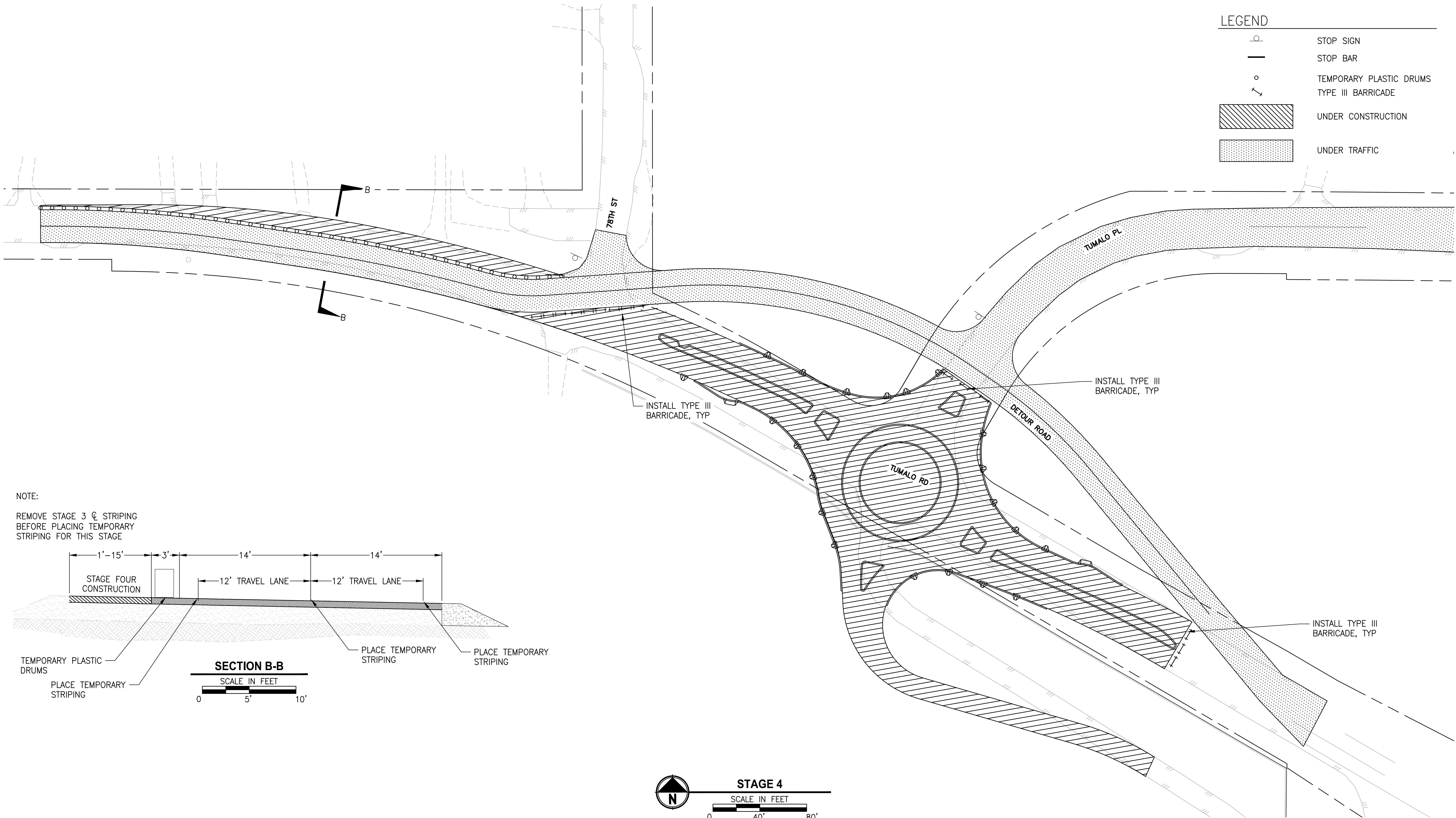
STAGING PLAN-STAGE 3
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DRAWING NO. 22 OF 40
C8.2

FOR BIDDING REFERENCE ONLY

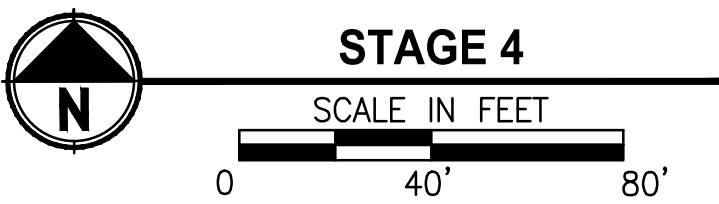
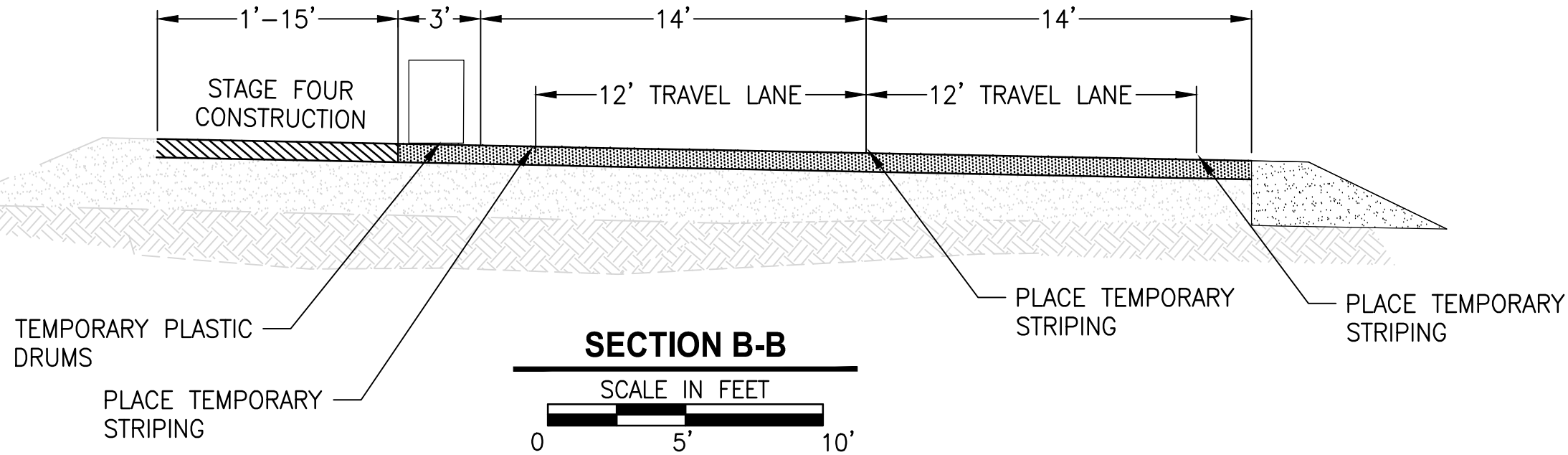


LAYOUT: C8.3-STAGING PLAN-STAGE 4      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\257-2509-005 06BH Design Phase\99Svcs\CADD\DWG\TUMALO RD REBA\CD\Tumalo rd-Tumalo pl      PLOTTED BY: rlcdev      DATE: Wednesday, September 2, 2020 3:09:35 PM



LEGEND	
	STOP SIGN
	STOP BAR
	TEMPORARY PLASTIC DRUMS
	TYPE III BARRICADE
	UNDER CONSTRUCTION
	UNDER TRAFFIC

NOTE:  
REMOVE STAGE 3 Q STRIPING  
BEFORE PLACING TEMPORARY  
STRIPING FOR THIS STAGE



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	BE2509005-C7.210-ST00
JOB No.	297-2509-005
DATE	05/2020



PROJECT NAME
TUMALO RD / TUMALO PL INTERSECTION IMPROVEMENTS

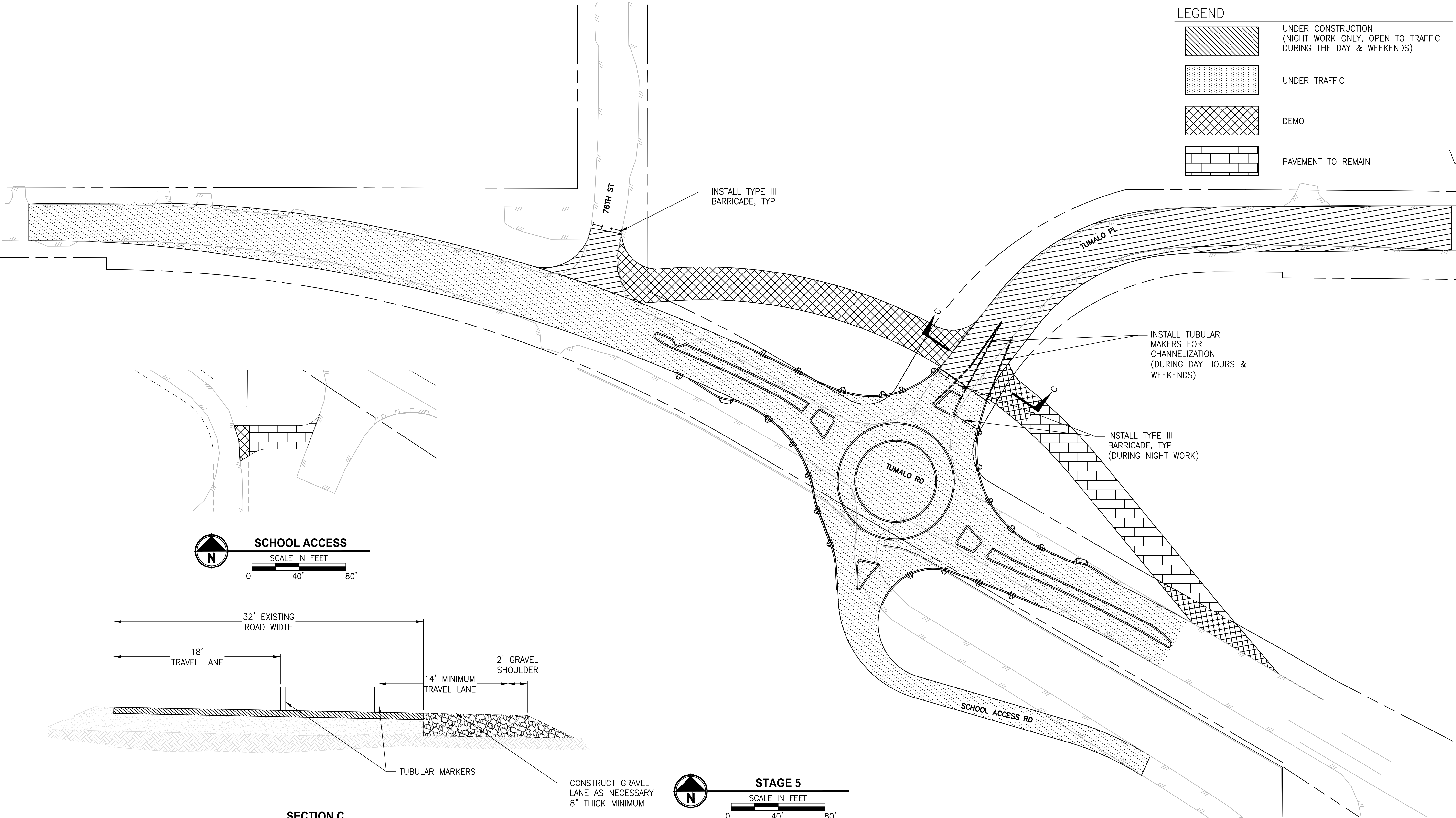
STAGING PLAN-STAGE 4
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DRAWING NO. 23 OF 40
C8.3

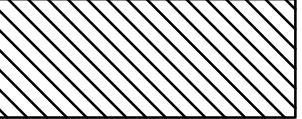
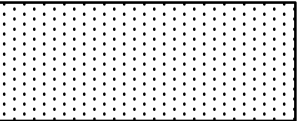
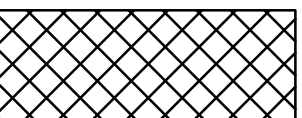
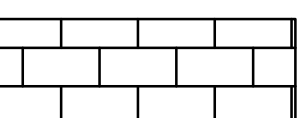
FOR BIDDING REFERENCE ONLY



LAYOUT: C8.4-STAGING PLAN-STAGE 5      PATH: U:\Bent\Projects\Clients\2509-Deschutes County\297-2509-005 OERH Design Phase\99Svcs\CADD\DWG\TUMALO RD REAS\CD\S\Tumalo rd-Tumalo pl      PLOTTED BY: rcodev      DATE: Wednesday, September 2, 2020 2:21:54 PM



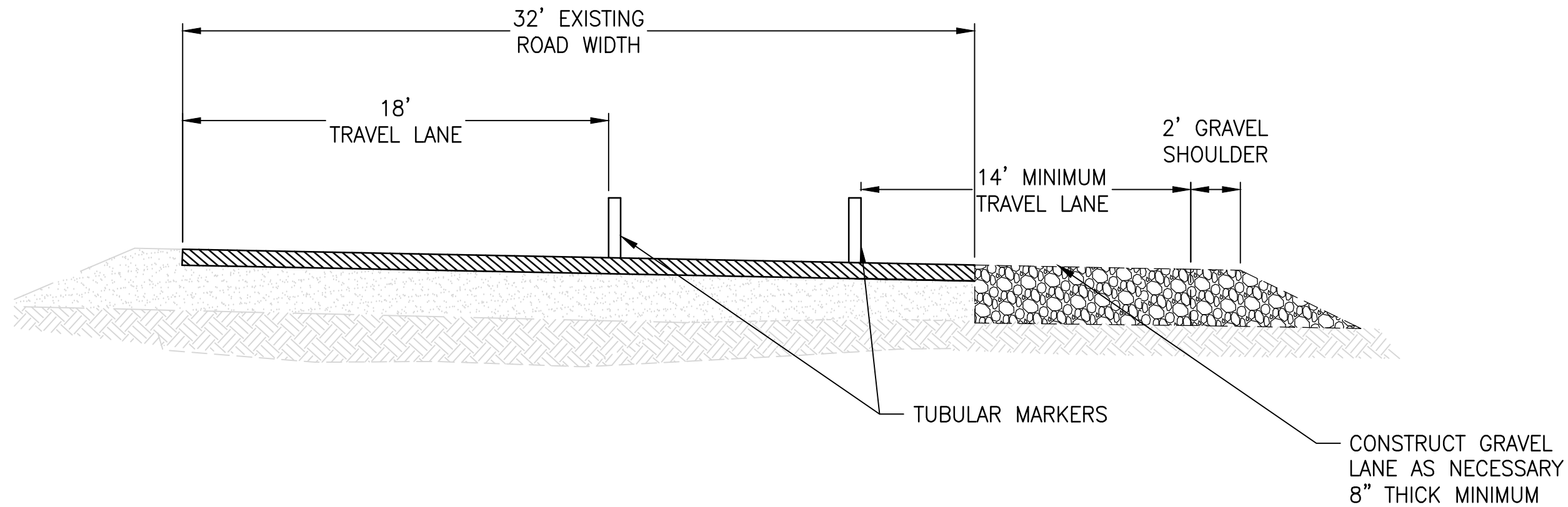
**LEGEND**

	UNDER CONSTRUCTION (NIGHT WORK ONLY, OPEN TO TRAFFIC DURING THE DAY & WEEKENDS)
	UNDER TRAFFIC
	DEMO
	PAVEMENT TO REMAIN

**SCHOOL ACCESS**

SCALE IN FEET

0 40' 80'



**SECTION C**

SCALE IN FEET

0 5' 10'

**STAGE 5**

SCALE IN FEET

0 40' 80'

REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

**ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY**

FILE NAME  
BE2509005-C7.210-ST00

JOB No.  
297-2509-005

DATE  
05/2020



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PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

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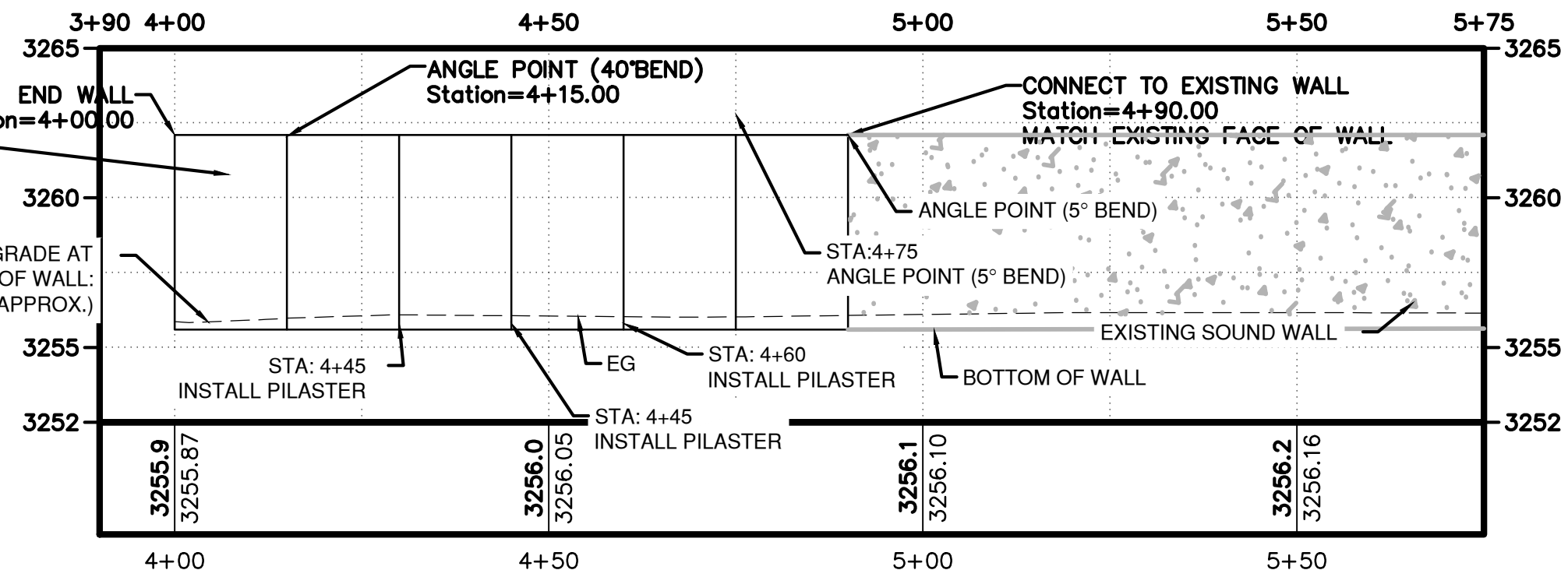
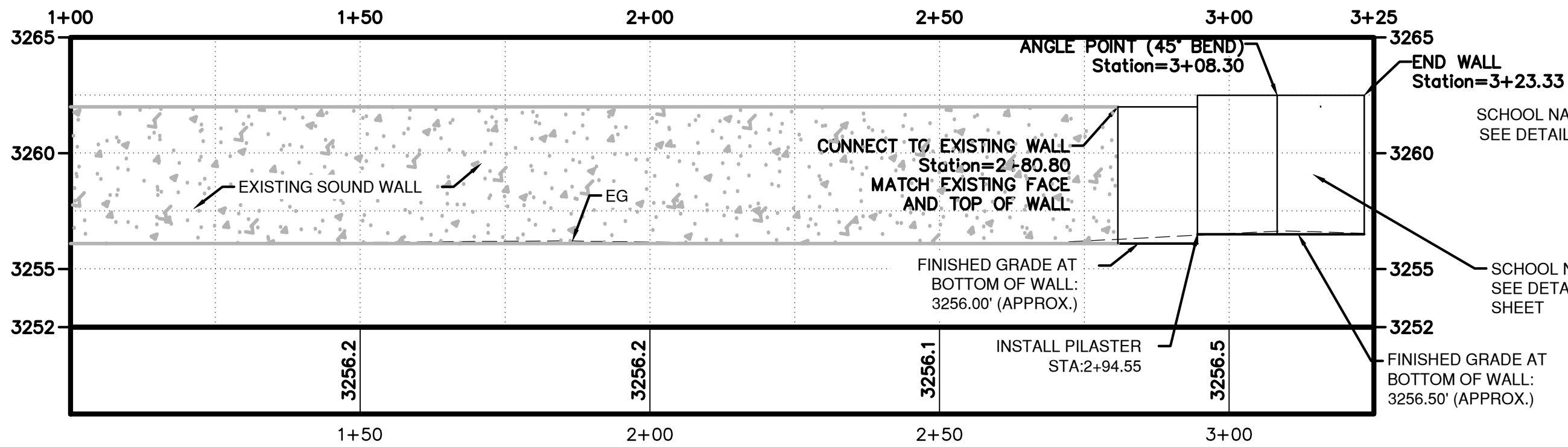
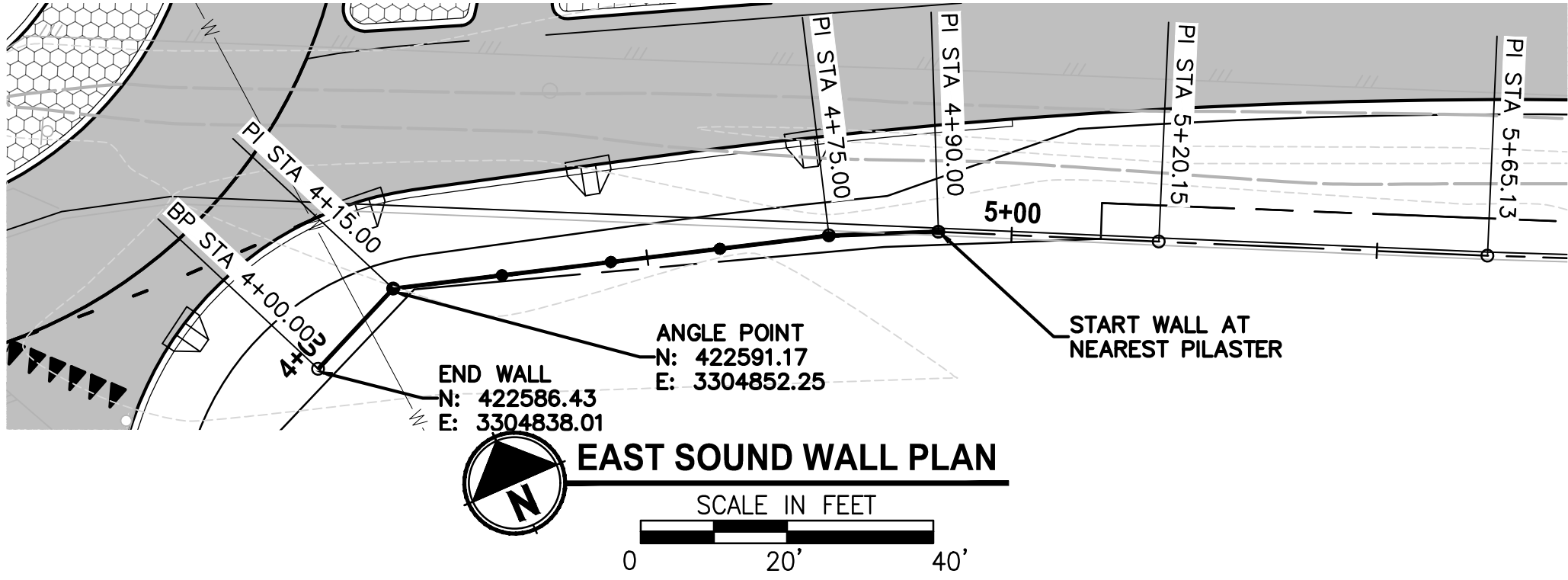
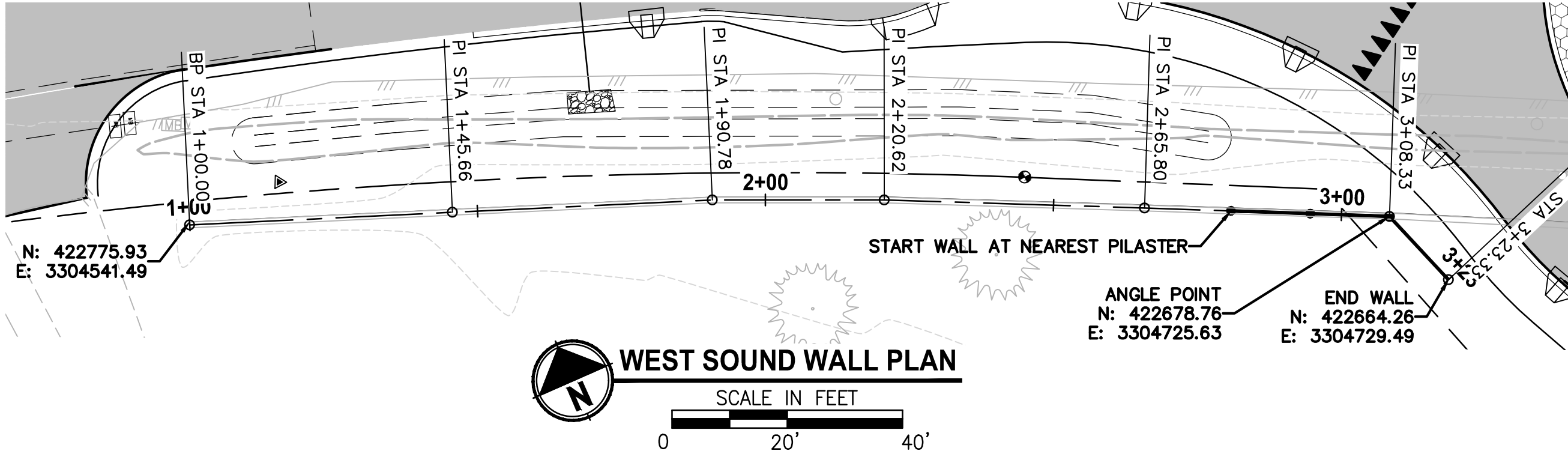
**STAGING PLAN-STAGE 5**

DRAWING NO.  
24 OF 40

**C8.4**

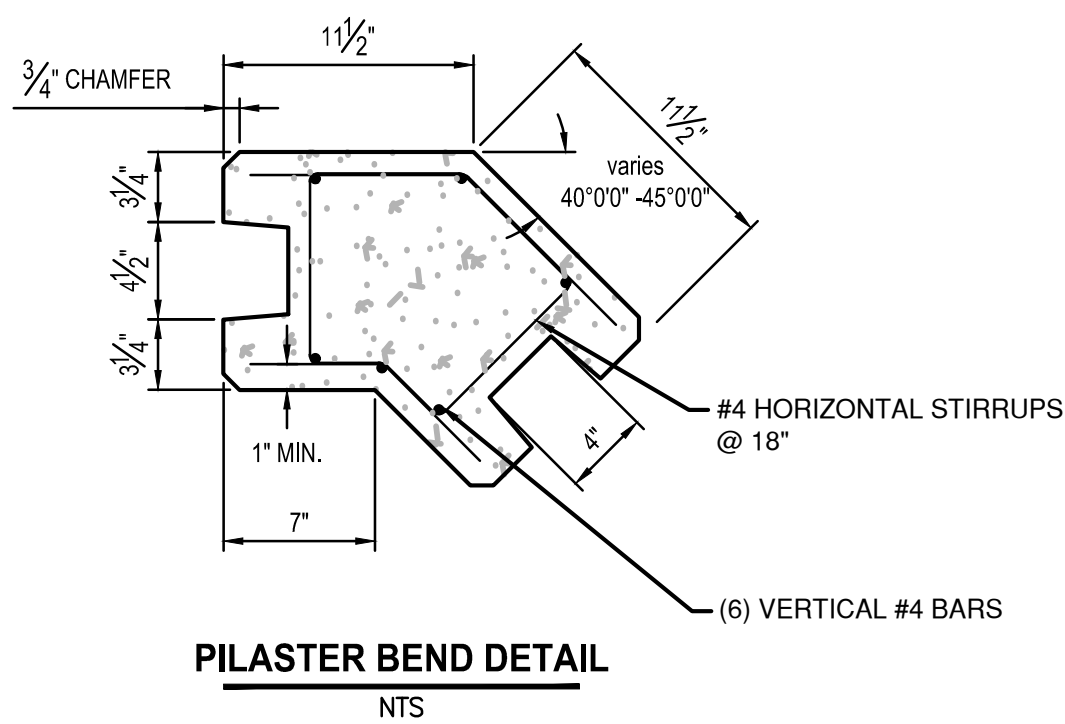


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LAYOUT: C9.0  
PLOTED BY: ricodav DATE: Wednesday, September 2, 2020 12:52:37 PM



#### WALL CONSTRUCTION NOTES:

- SEE ODOT STD DWG BR740 FOR DETAILS NOT SHOWN.
- MATCH EXISTING WALL TEXTURE. PROVIDE SAMPLE WALL PANEL SECTION TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- MATCH EXISTING WALL HEIGHT. ELEVATIONS GIVEN IN PROFILE VIEWS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
- PILASTERS SHALL HAVE A MAXIMUM SPACING OF 15 FEET ON CENTER.
- SEE PILASTER BEND DETAIL (THIS SHEET) FOR BENDS GREATER THAN 5 DEGREES.
- USE AVERAGE SOIL CONDITIONS FOR FOOTING LENGTH ON THE ODOT STD DWG BR740

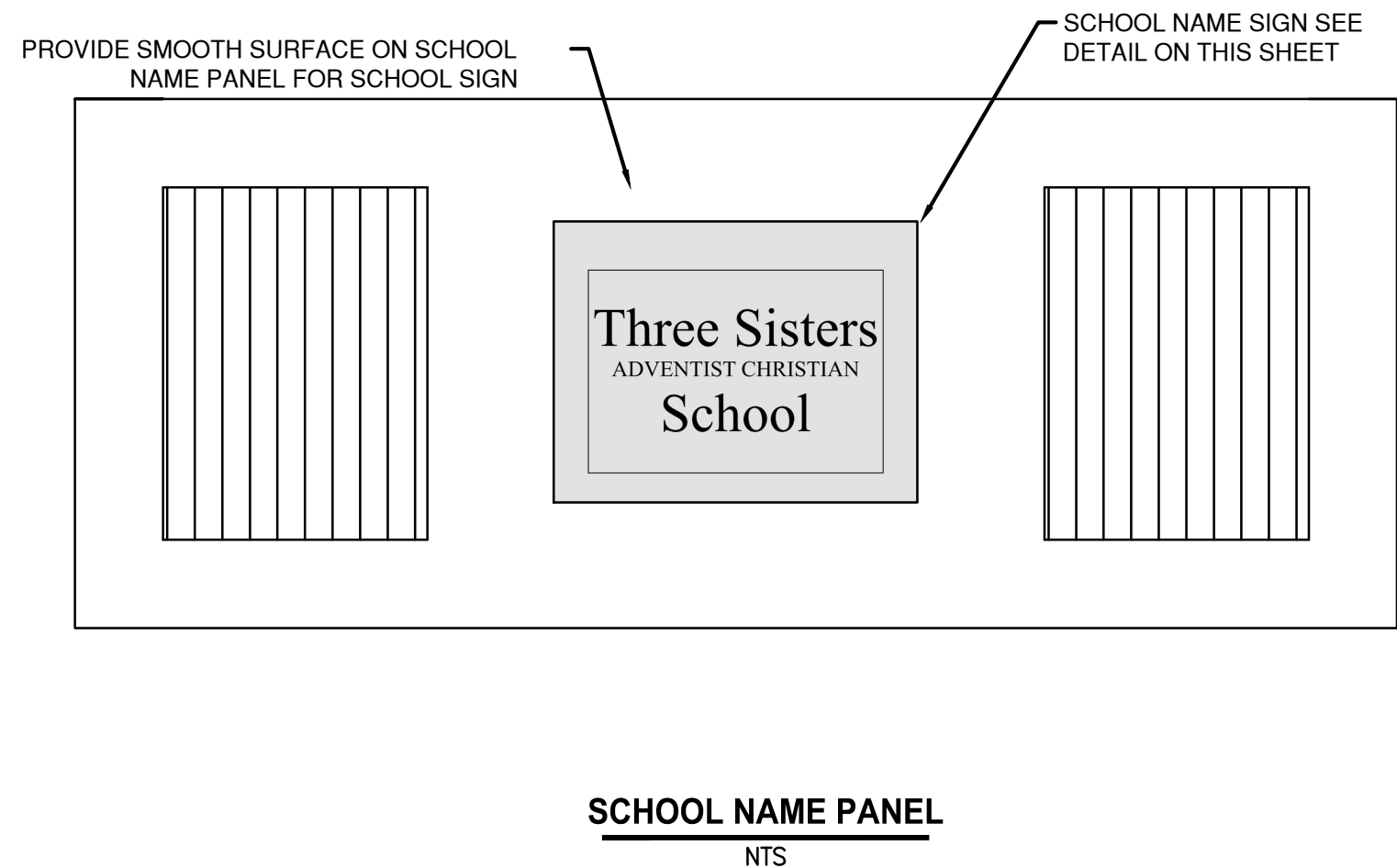


FONT: TIMES NEW ROMAN (UPPER AND LOWER CASE)

COLOR: FLAT BLACK.

MATERIAL: 3/4" METAL (STEEL OR ALUMINUM)

MOUNT: STANDOFF



REVISIONS	DATE	BY	DESIGNED DR
			DRAWN DR/LYF
			CHECKED
			APPROVED

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BE25090005-C9.0-WL00
JOB No. 297-2509-005
DATE 05/2020



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PROJECT NAME

**TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS**

**SOUND WALL PLAN AND PROFILE**

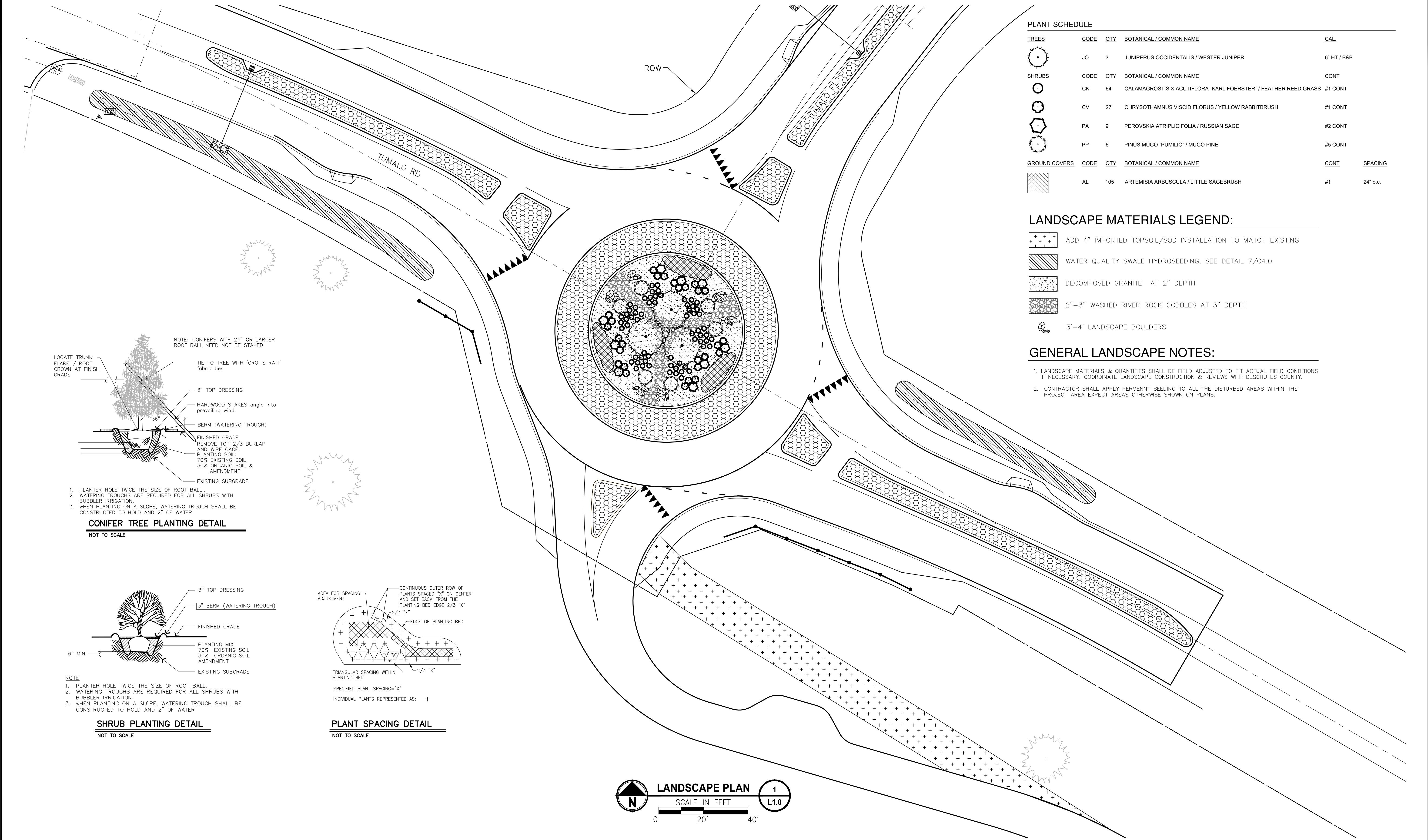
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**C9.0**

FOR BIDDING REFERENCE ONLY



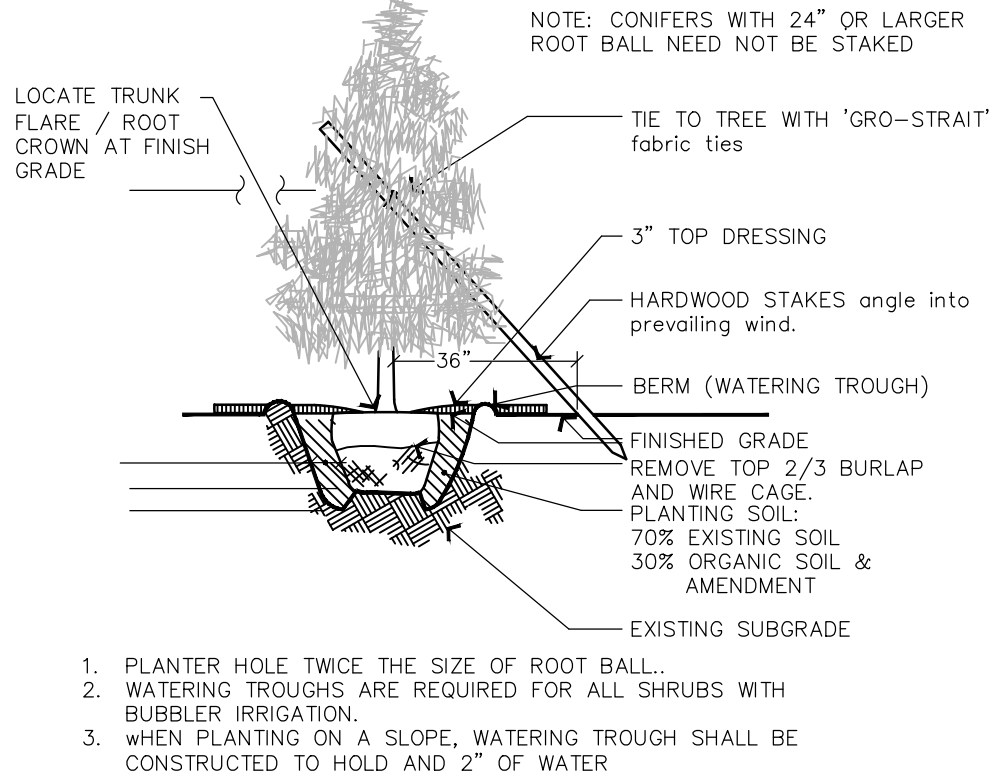
LAYOUT: L1.0 LANDSCAPE PLAN  
 PATH: U:\Bend\Projects\Clients\Deschutes County\297-2509-005 OBRR Design Phase\995\cs\cadd\DWG\TUMALO RD RBAs\CD\S\Tumalo rd-Tumalo pl  
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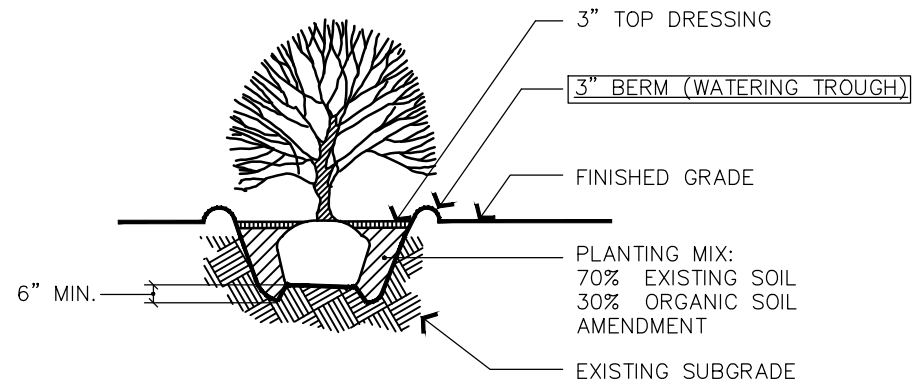
PLANT SCHEDULE					
TREES	CODE	QTY	BOTANICAL / COMMON NAME	CAL.	
	JO	3	JUNIPERUS OCCIDENTALIS / WESTER JUNIPER	6' HT / B&B	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	
	CK	64	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	#1 CONT	
	CV	27	CHRYSOETHAMNUS VISCIDIFLORUS / YELLOW RABBITBRUSH	#1 CONT	
	PA	9	PEROVSKIA ATRIPLICIFOLIA / RUSSIAN SAGE	#2 CONT	
	PP	6	PINUS MUGO 'PUMILIO' / MUGO PINE	#5 CONT	
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
	AL	105	ARTEMISIA ARBUSCULA / LITTLE SAGEBRUSH	#1	24" o.c.

LANDSCAPE MATERIALS LEGEND:	
	ADD 4" IMPORTED TOPSOIL/SOD INSTALLATION TO MATCH EXISTING
	WATER QUALITY SWALE HYDROSEEDING, SEE DETAIL 7/C4.0
	DECOMPOSED GRANITE AT 2" DEPTH
	2"-3" WASHED RIVER ROCK COBBLES AT 3" DEPTH
	3'-4' LANDSCAPE BOULDERS

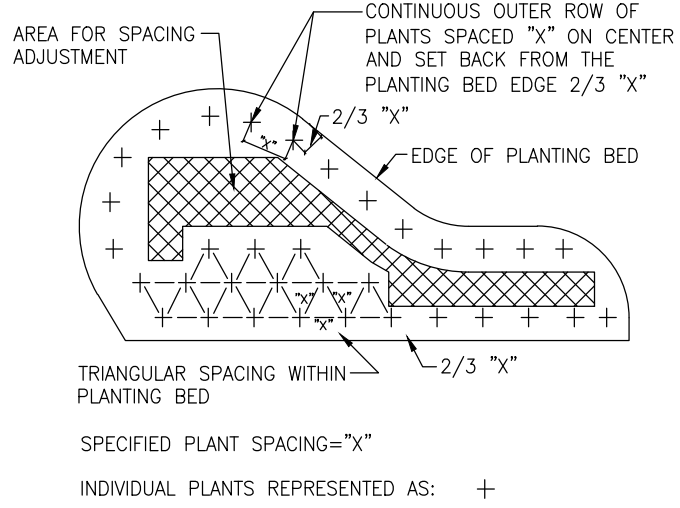
- GENERAL LANDSCAPE NOTES:**
- LANDSCAPE MATERIALS & QUANTITIES SHALL BE FIELD ADJUSTED TO FIT ACTUAL FIELD CONDITIONS IF NECESSARY. COORDINATE LANDSCAPE CONSTRUCTION & REVIEWS WITH DESCHUTES COUNTY.
  - CONTRACTOR SHALL APPLY PERMENNT SEEDING TO ALL THE DISTURBED AREAS WITHIN THE PROJECT AREA EXPECT AREAS OTHERWISE SHOWN ON PLANS.



**CONIFER TREE PLANTING DETAIL**  
 NOT TO SCALE



**SHRUB PLANTING DETAIL**  
 NOT TO SCALE



**PLANT SPACING DETAIL**  
 NOT TO SCALE



**Parametrix**  
 ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

PROJECT NAME

TUMALO RD / TUMALO PL  
INTERSECTION IMPROVEMENTS

LANDSCAPE PLAN

DRAWING NO.  
 25 OF 40  
**C10.0**

FOR BIDDING REFERENCE ONLY



SIGNING AND STRIPING LEGEND  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS

SIGNING LEGEND

- N  
M

Install new sign (N) on new (M) sign support.
- N

Install new sign (N)
- EXN  
M

Maintain and protect existing sign (N) and (M) sign support.
- RXN  
M

Remove existing sign (N) and (M) sign support.
- RSN  
M

Remove and save existing sign (N) and remove (M) sign support.
- RIN  
M

Reinstall existing sign (N) on new (M) sign support.
- RXN

Remove existing sign (N).

ABBREVIATIONS

- N = Sign Number  
M = Material  
Material options:  
W = Wood Post  
S = Steel Breakaway Support (TBB or MPB)  
ST = Perforated Steel Square Tube Sign Support

STRIPING LEGEND

- Y

Inst. 4" yellow line
- W-2

Inst. 8" white line
- WD-2

Inst. 8" white dotted line
- S

Inst. 1' white stop bar
- ND

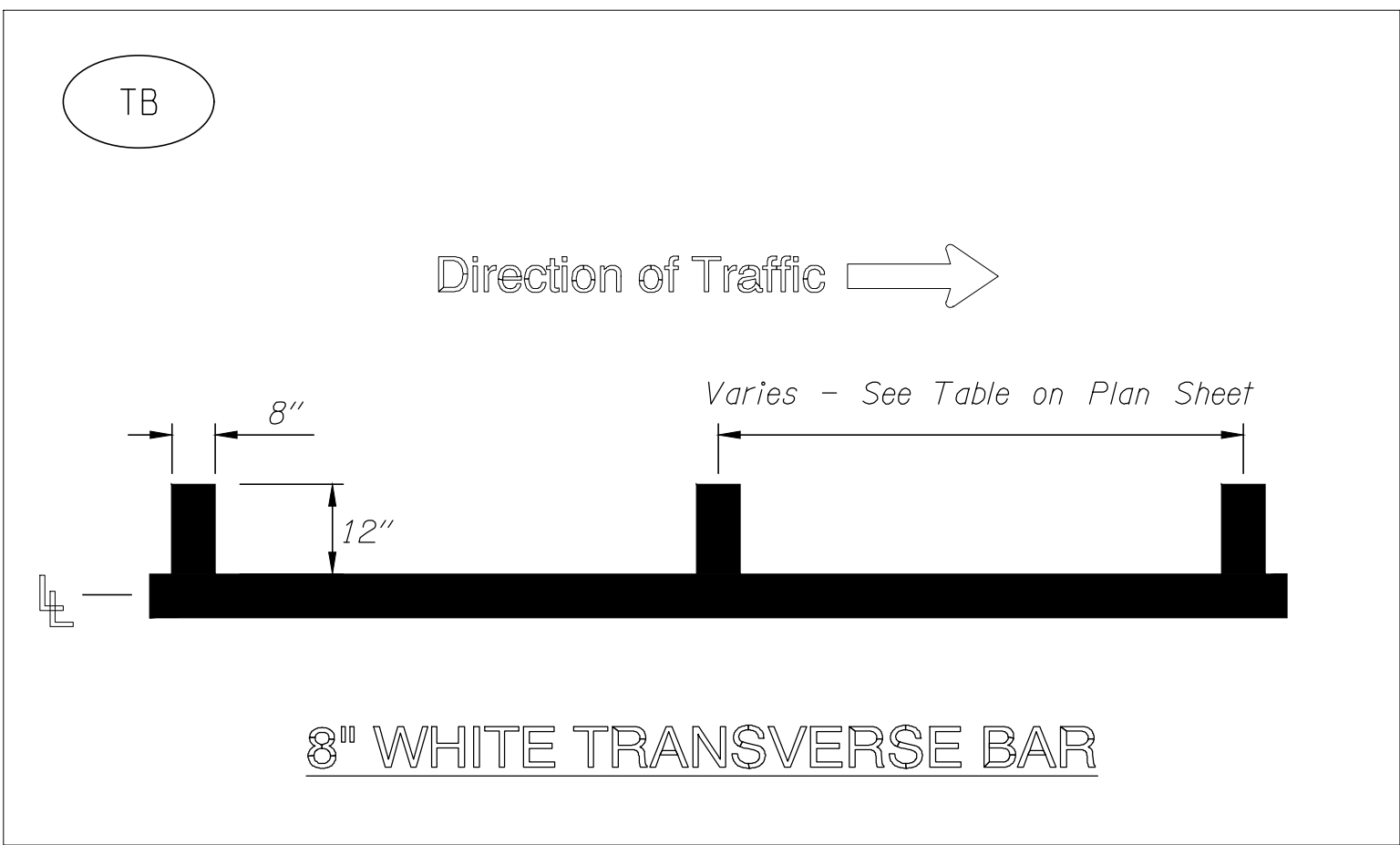
Inst. narrow double no-pass two 4" yellow lines
- YLD

Inst. yield line (white)
- TB

Inst. transverse speed bars. See detail on this sheet.

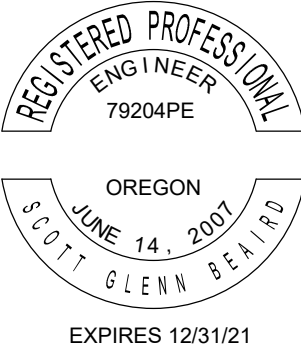
GENERAL NOTES

- All signage and pavement marking shall conform to the requirements and specifications of the Manual on Uniform Traffic Control Devices (M.U.T.C.D.) latest edition, the Oregon supplement to the M.U.T.C.D., the Oregon Standard Specifications for Construction, and the project special provisions.
- All pre-markings for pavement markings and striping, as well as signs locations shall be approved by the Engineer prior to final placement.
- All longitudinal pavement markings shall be "Method AB: Thermoplastic, Extruded or Sprayed, Surface, Non-Profiled".
- All transverse bars and legends shall be type "AB Thermoplastic".
- All signs and sign supports removed from the project shall be salvaged to Deschutes County.
- Preserve and protect all existing striping outside of the project limits.



REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

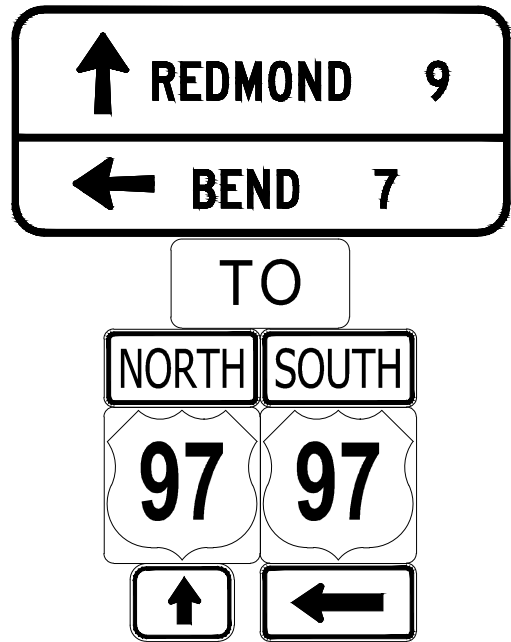
SIGNING AND STRIPING LEGEND
-----------------------------

FOR BIDDING REFERENCE ONLY
DRAWING NO. 26 OF 38
SS1





Sign 1



Sign 2



Sign 3

3a

3b



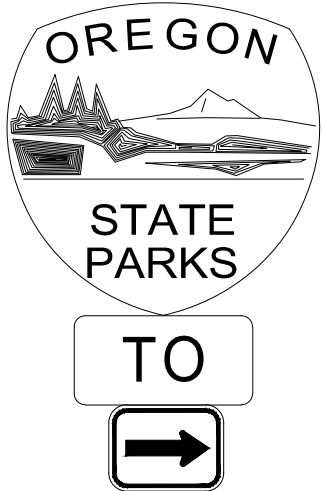
Sign 4



Sign 5



Sign 6

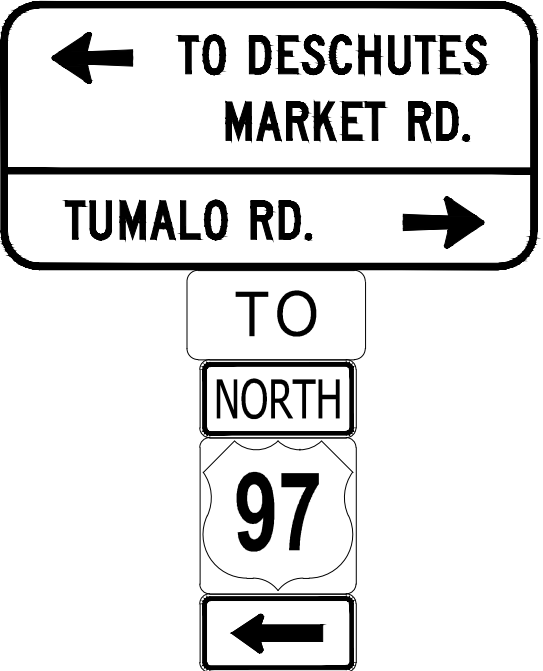


Sign 7

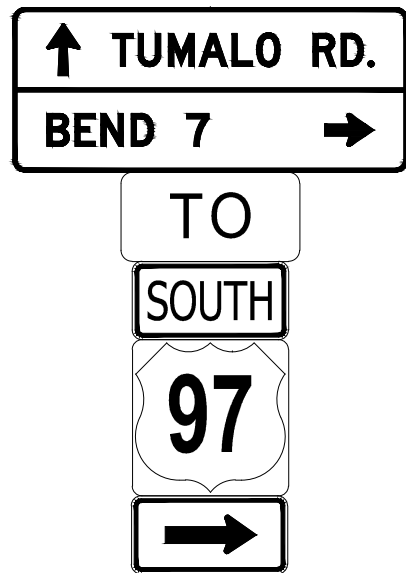
7a

7b

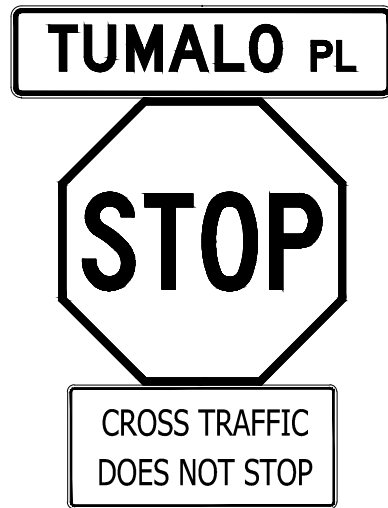
7c



Sign 8



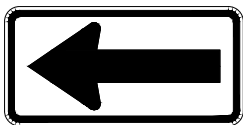
Sign 9



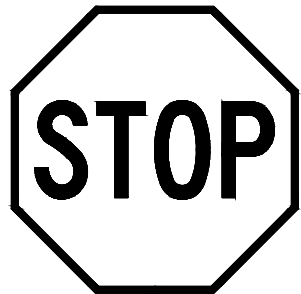
Sign 10



Sign 11



Sign 12



Sign 13

REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

EXISTING SIGN DETAILS
-----------------------

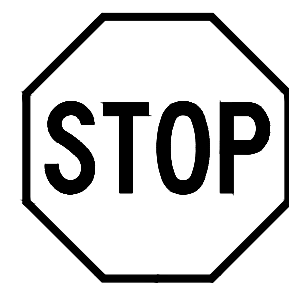
DRAWING NO. 27 OF 38
SS2

FOR BIDDING REFERENCE ONLY

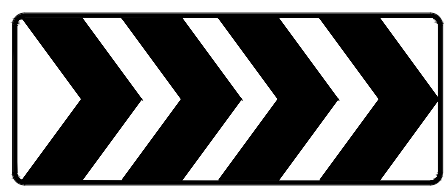




Sign 101



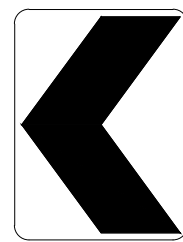
Sign 102



Sign 103



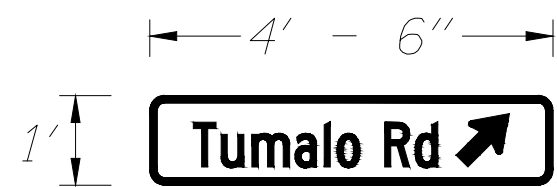
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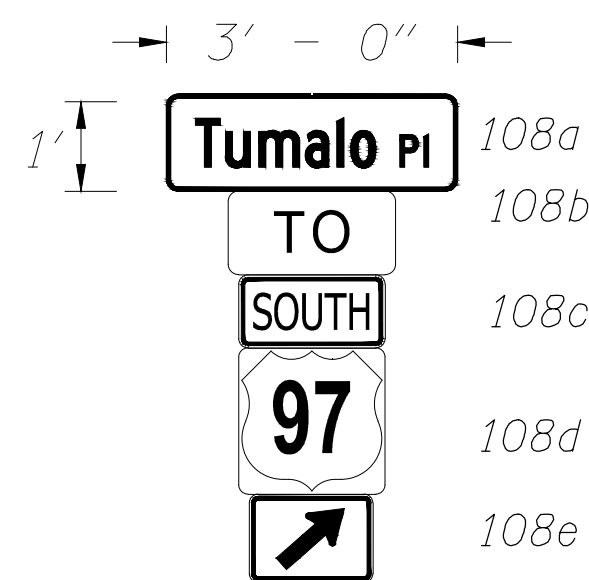
Sign 105



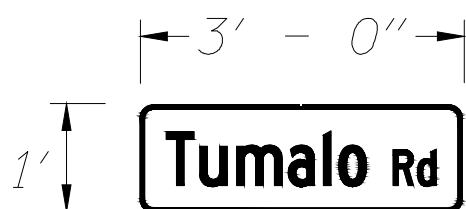
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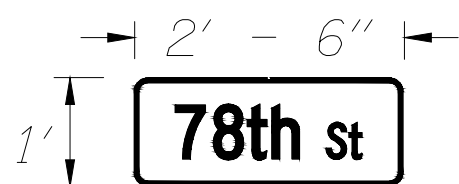
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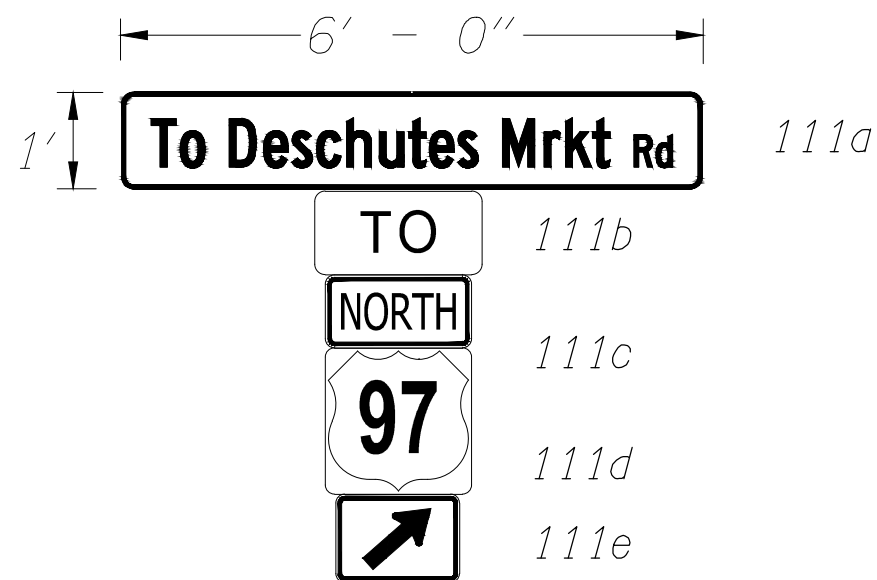
Sign 108



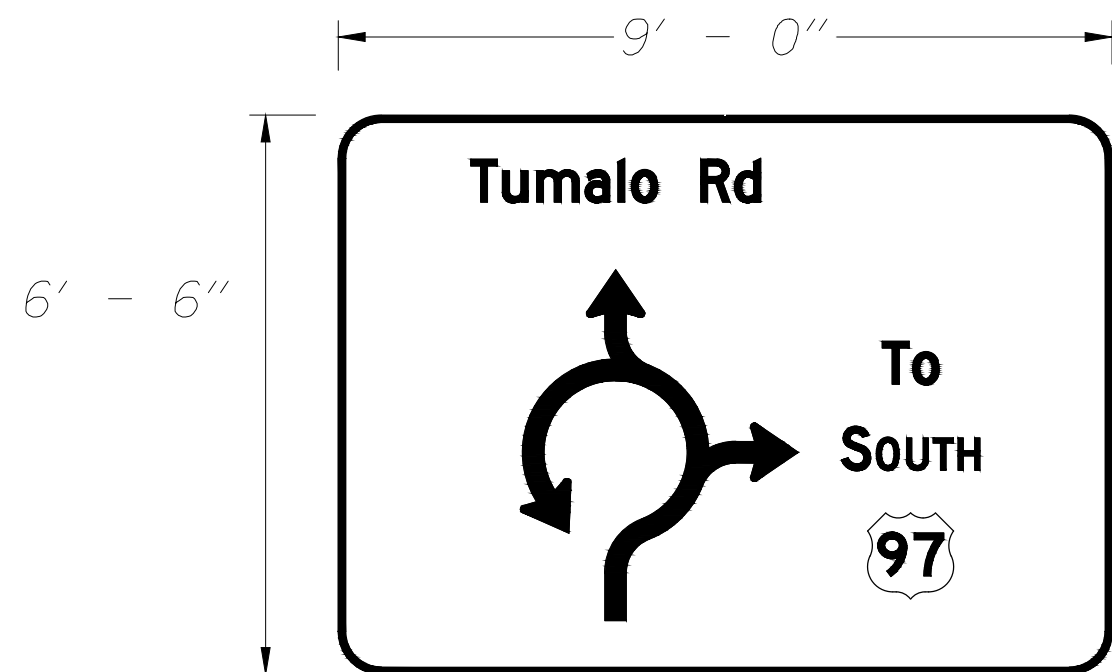
Sign 109



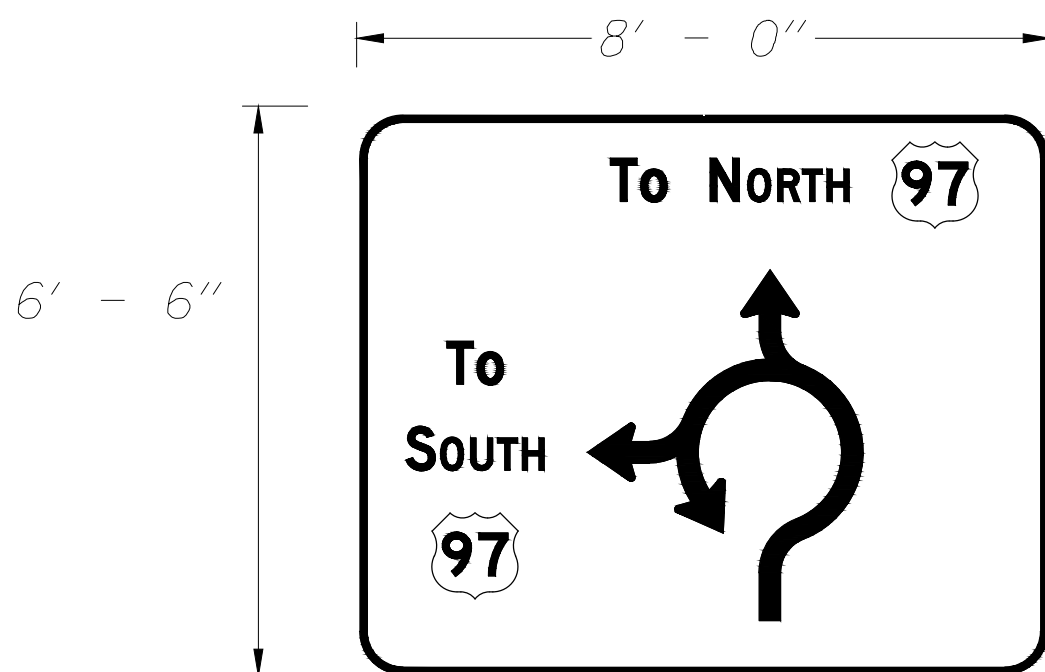
Sign 110



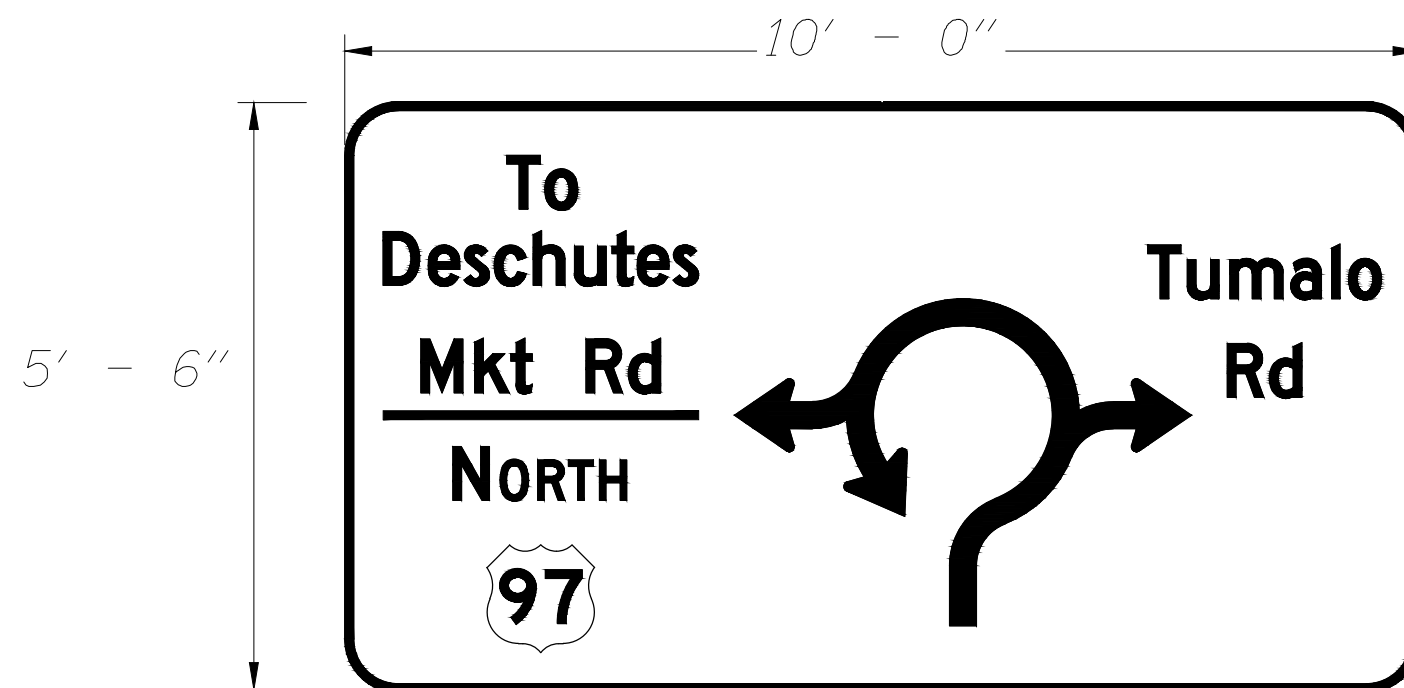
Sign 111



Sign 112



Sign 113



Sign 114



Sign 115

REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

PROPOSED SIGN DETAILS
-----------------------

DRAWING NO. 28 OF 38
SS3

FOR BIDDING REFERENCE ONLY



SIGN & POST DATA TABLE  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS

SIGN NO.	SIGN LOCATION 4/	SIGN DIMENSIONS		SUB-STRATE			COLOR 1/					LEGEND		SIGN NO. 2/	TYPE OF SUPPORT																				POST		FOOTING		REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
							BACKGROUND		LEGEND						WOOD POST (TM670-TM671, TM676)	SQ. TUBE SIGN SUPPORT (TM671, TM676, TM681, TM687-TM689)	TRIANGULAR BASE BREAKAWAY (TM602)	H-FRAME	MULTI-POST BREAKAWAY (TM220, TM600-TM601)	STAINLESS STEEL CLAMP (SSC) (TM677)	SIGNAL POLE MOUNT (TM680)	MAST ARM SIGN MOUNT (TM679)	BRIDGE STRUCTURE MOUNT (TM677)	CANTILEVER / BUTTERFLY (TM622-TM627)	SIGN BRIDGE (TM606-TM612, TM614-TM620)	EXIT NUMBER SIGN MOUNT (TM220, TM225)	ROUTE MARKER FRAME (TM678)	MILEPOST MARKER POST (TM221-TM222)	CROSSWALK CLOSURE BARRICADE (TM490)	VERTICAL SIGN MOUNTS ON EXISTING STRUCTURE	CUSTOM VARIABLE SUPPORT	SECONDARY SIGN (TM676 & TM678)			SIZE	LENGTH	LOCATION 3/	MIN. DEPTH 5/																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
WIDTH	HEIGHT	PLYWOOD	SHEET ALUMINUM	EXTRUDED ALUM. (TM675)	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	ASTM TYPE III OR TYPE IV	ASTM TYPE IX	NON-REFLECTIVE	PERMANENT	REMOVABLE (TM230-TM233)	C 4X5.4	C 4X7.25	LENGTH																		(BASED ON ESTIMATED LENGTH)	(MUST BE FIELD VERIFIED)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1	(TM200-TM201, TM635)													1		X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

1/ BK= BLACK  
BL= BLUE  
BR= BROWN  
FY= FLUORESCENT YELLOW  
G= GREEN  
O= ORANGE  
R= RED  
RB= RED-BLUE  
SW= SILVER-WHITE  
W= WHITE  
Y= YELLOW  
YG= YELLOW-GREEN

2/ NOTE: L, C, R ARE LOCATIONS OF POSTS  
FACING THE SIGN.  
L=LEFT POST  
C=CENTER POST  
R=RIGHT POST

3/ DISTANCE FROM PROJECT  
CENTERLINE. FOR ADDITIONAL  
INFORMATION SEE STANDARD  
DRAWINGS TM601, TM602, AND TM635.

4/ NOTE: THE LOCATIONS SHOWN ARE  
APPROXIMATE EXCEPT FOR SPEED ZONES,  
SCHOOL ZONES, OBJECT MARKERS AND  
MILEPOST MARKERS. EXACT LOCATIONS ARE  
TO BE DETERMINED BY THE ENGINEER.

5/ MINIMUM DEPTH OF FOOTING FOR  
TRIANGULAR BASE BREAKAWAY AND MULTI-  
POST BREAKAWAY INSTALLATIONS IS FOR A 1'  
DIAMETER FOOTING. FOR ADDITIONAL  
INFORMATION SEE STANDARD DRAWINGS  
TM601 AND TM602.

REVISIONS	DATE	BY	DESIGNED LTN
			DRAWN LTN
			CHECKED HJS
			APPROVED SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

SIGN & POST DATA TABLE
------------------------

DRAWING NO. 29 OF 38
SS4

FOR BIDDING REFERENCE ONLY



SIGN & POST DATA TABLE  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS

[illegible]

1/


BK= BLACK  
BL= BLUE  
BR= BROWN  
FY= FLUORESCENT YELLOW  
G= GREEN  
O= ORANGE  
R= RED  
RB= RED-BLUE  
SW= SILVER-WHITE  
W= WHITE  
Y= YELLOW  
YG= YELLOW-GREEN

**2/ NOTE: L, C, R ARE LOCATIONS OF POSTS  
FACING THE SIGN.  
L=LEFT POST  
C=CENTER POST  
R=RIGHT POST**

**3/ DISTANCE FROM PROJECT CENTERLINE. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601, TM602, AND TM635.**

**4/ NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, SCHOOL ZONES, OBJECT MARKERS AND MILEPOST MARKERS. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.**

**5/ MINIMUM DEPTH OF FOOTING FOR TRIANGULAR BASE BREAKAWAY AND MULTI-POST BREAKAWAY INSTALLATIONS IS FOR A 1' DIAMETER FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM601 AND TM602.**

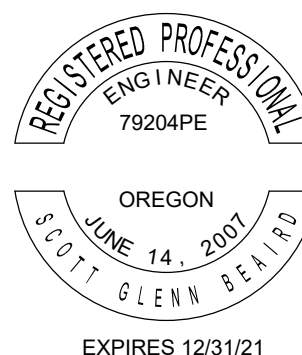
	REVISIONS	DATE	BY	DESIGNED LTN
				DRAWN LTN
				CHECKED HJS
				APPROVED SGF

ONE INCH AT FULL SCALE  
IF NOT, SCALE ACCORDINGLY

FILE NAME

JOB No.

DATE 09/02/2020



PROJECT NAME

**TUMALO RD/TUMALO PL  
INTERSECTION IMPROVEMENTS**

DESCHUTES COUNTY

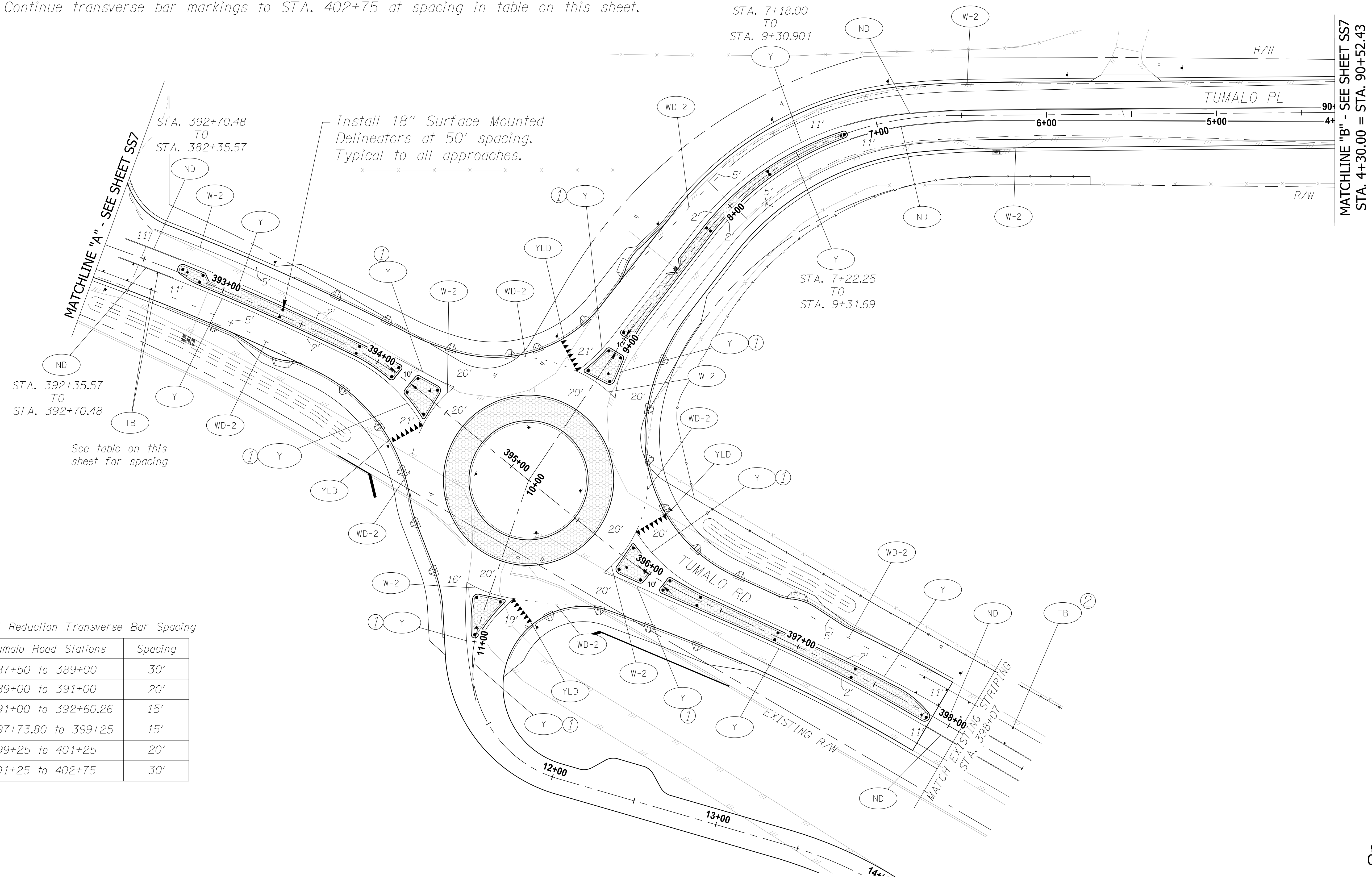
SIGN & POST DATA TABLE



CONSTRUCTION NOTES:

- ① End yellow line and begin white line at the end of island curb.  
② Continue transverse bar markings to STA. 402+75 at spacing in table on this sheet.

STRIPING PLAN  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



Speed Reduction Transverse Bar Spacing

Tumalo Road Stations	Spacing
387+50 to 389+00	30'
389+00 to 391+00	20'
391+00 to 392+60.26	15'
397+73.80 to 399+25	15'
399+25 to 401+25	20'
401+25 to 402+75	30'

REVISIONS	DATE	BY	DESIGNED LTN
			DRAWN LTN
			CHECKED HJS
			APPROVED SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS DESCHUTES COUNTY
--

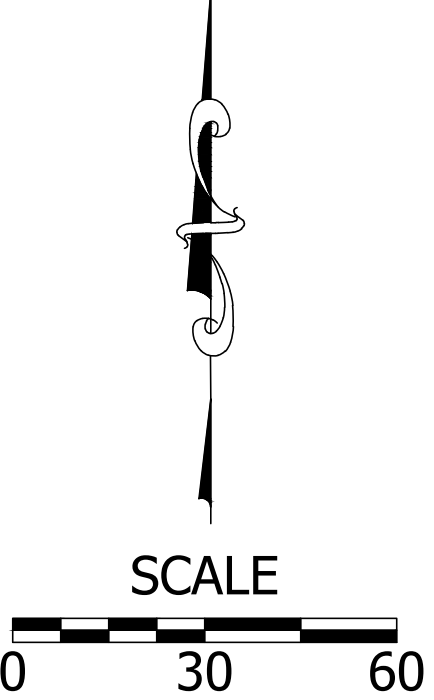
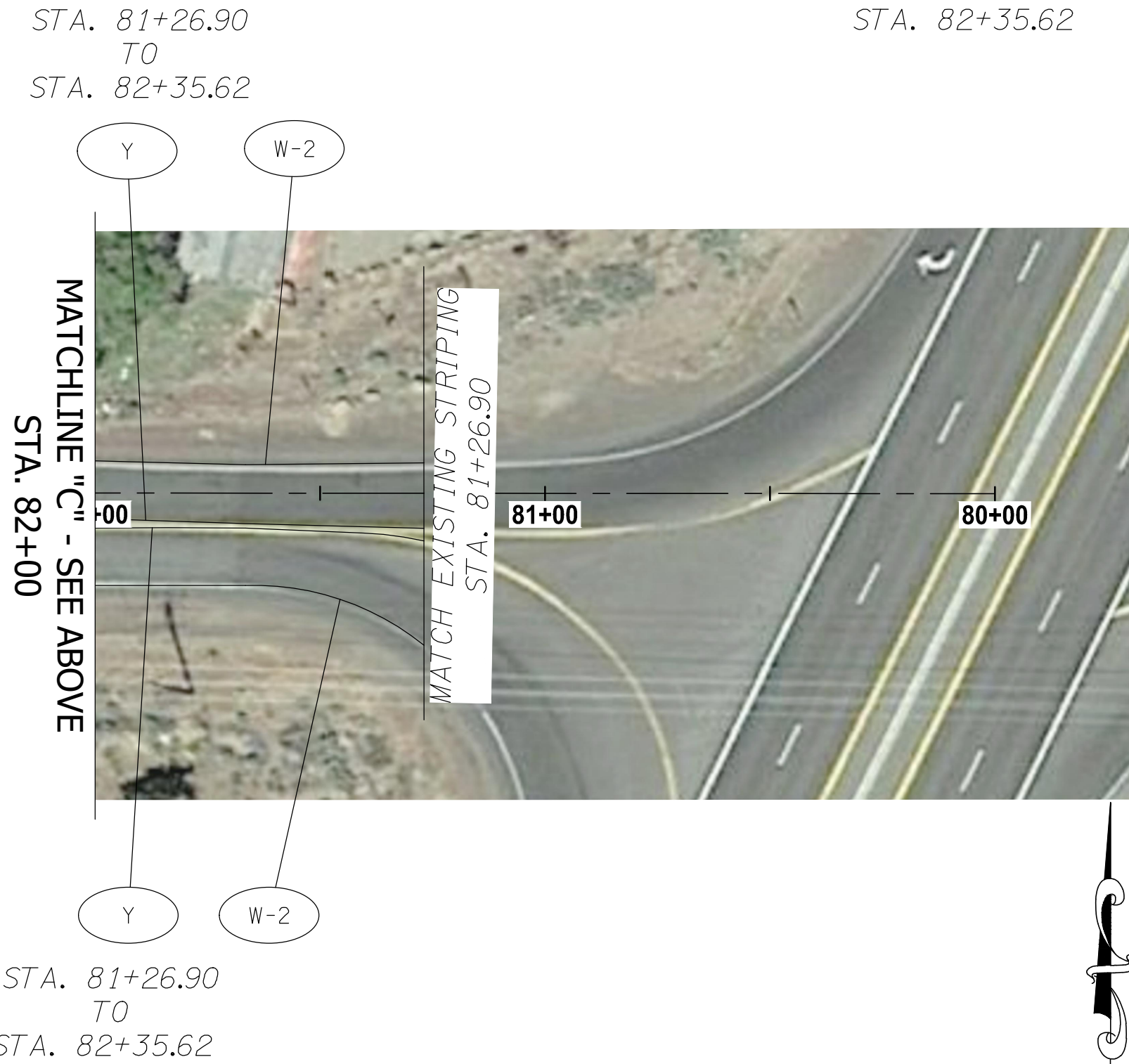
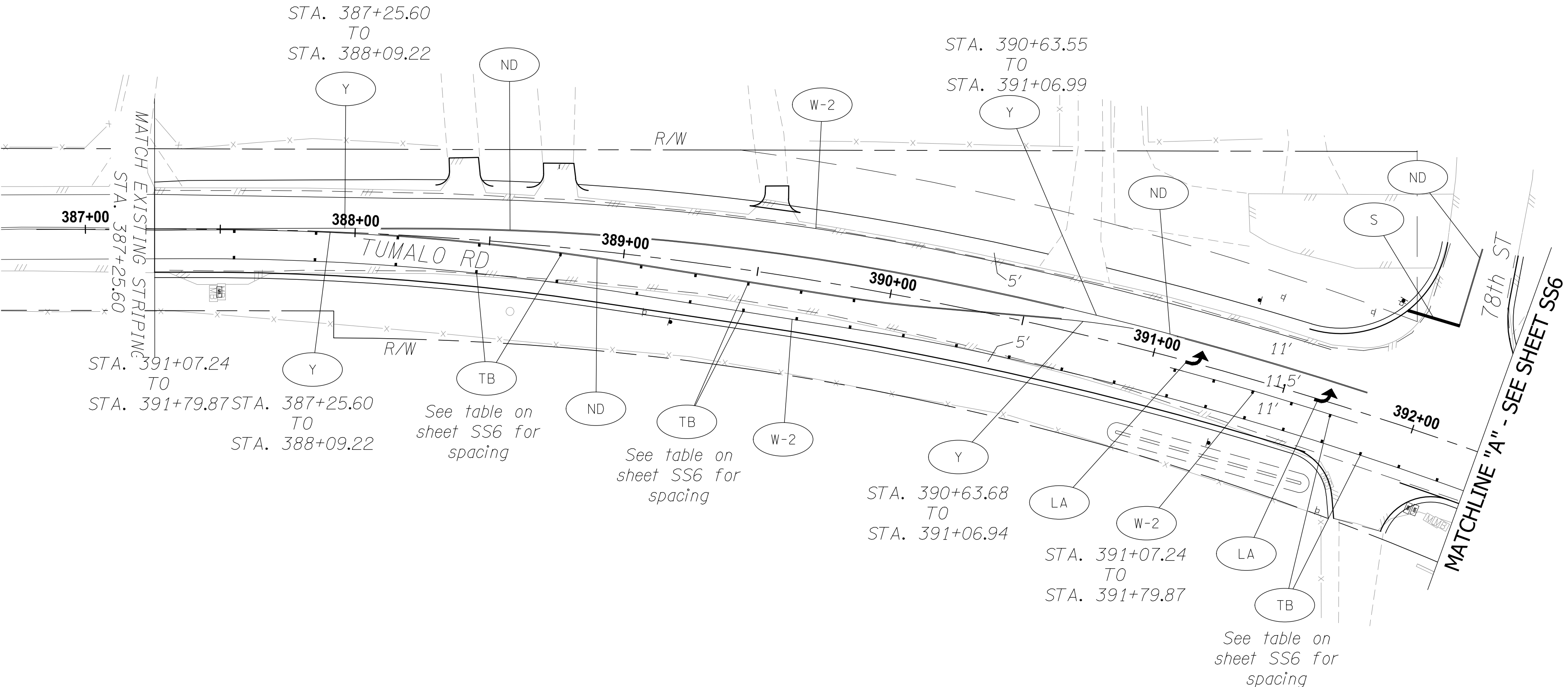
STRIPING PLAN
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DRAWING NO. 31 OF 38 SS6
--------------------------------

FOR BIDDING REFERENCE ONLY



STRIPING PLAN  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



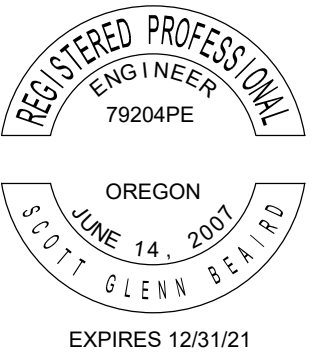
REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME

JOB No.

DATE 09/02/2020



PROJECT NAME

TUMALO RD/TUMALO PL  
INTERSECTION IMPROVEMENTS

DESCHUTES COUNTY

STRIPING PLAN

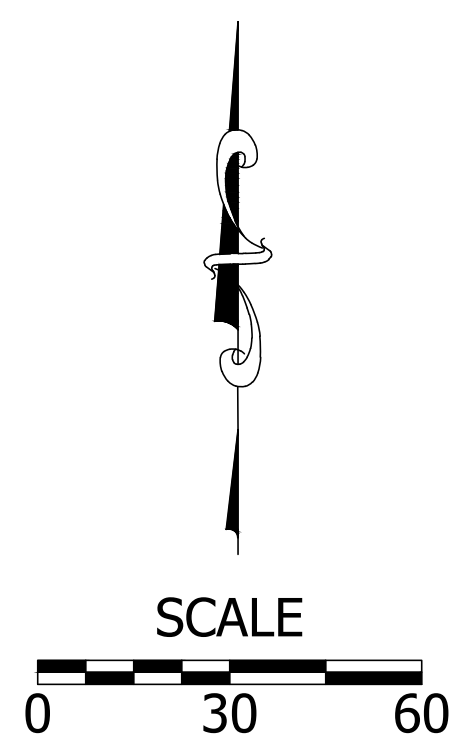
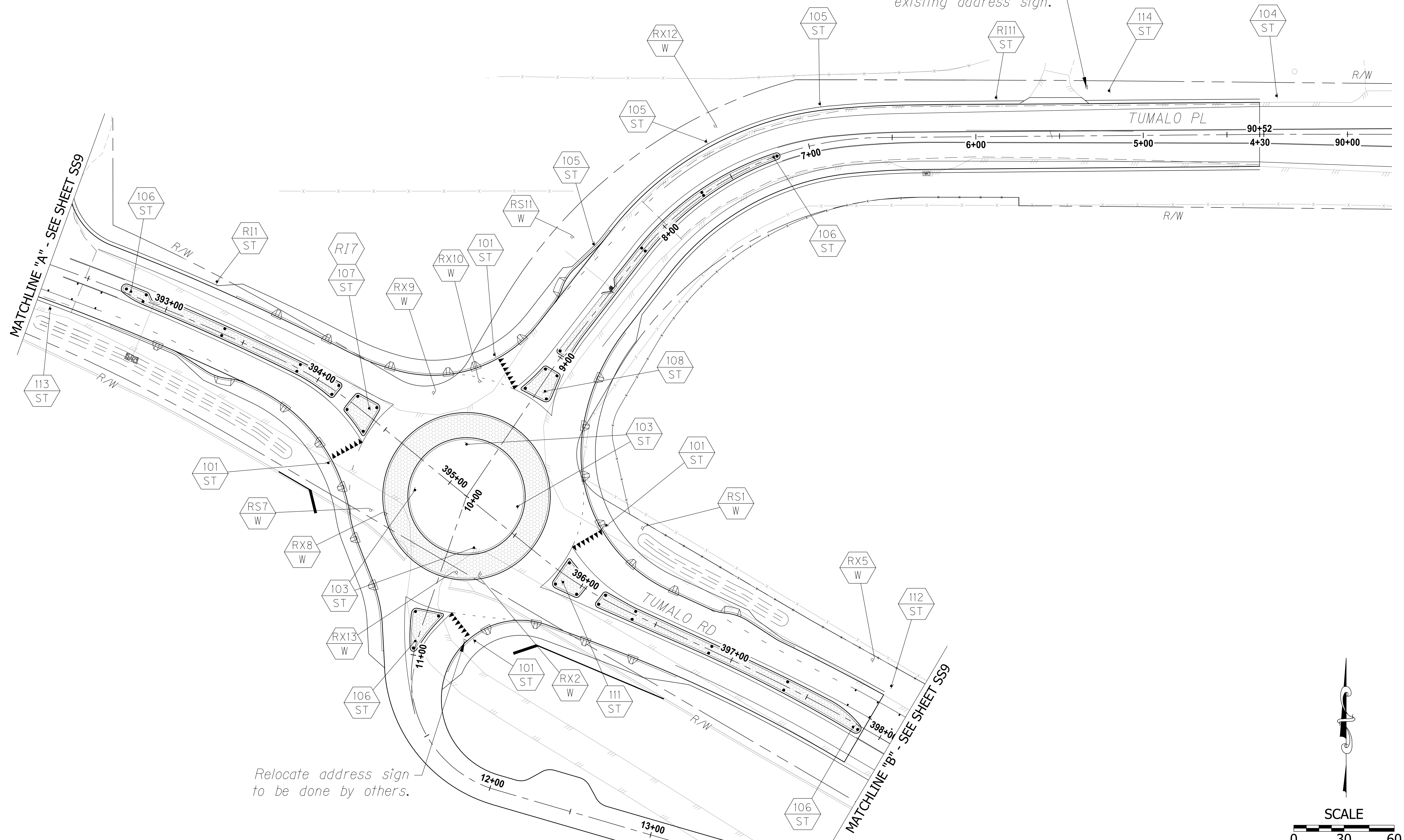
DRAWING NO.  
32 OF 38

SS7

FOR BIDDING REFERENCE ONLY



SIGNING PLAN  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS  
Maintain and protect  
existing address sign.



REVISIONS	DATE	BY	DESIGNED LTN
			DRAWN LTN
			CHECKED HJS
			APPROVED SGB

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME

JOB No.

DATE 09/02/2020



PROJECT NAME  
TUMALO RD/TUMALO PL  
INTERSECTION IMPROVEMENTS  
DESCHUTES COUNTY

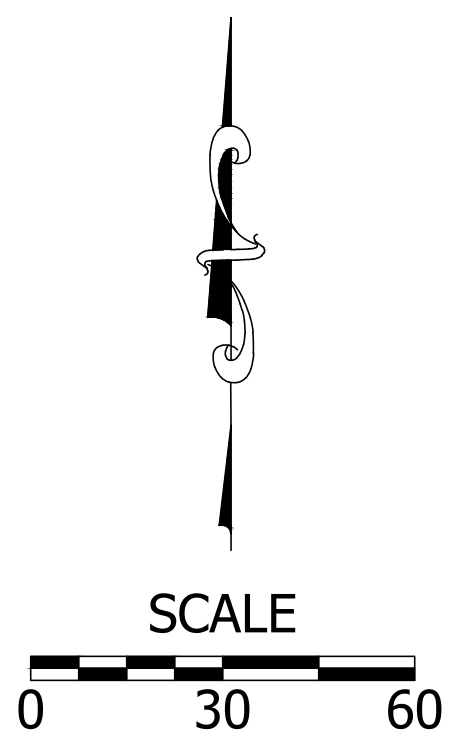
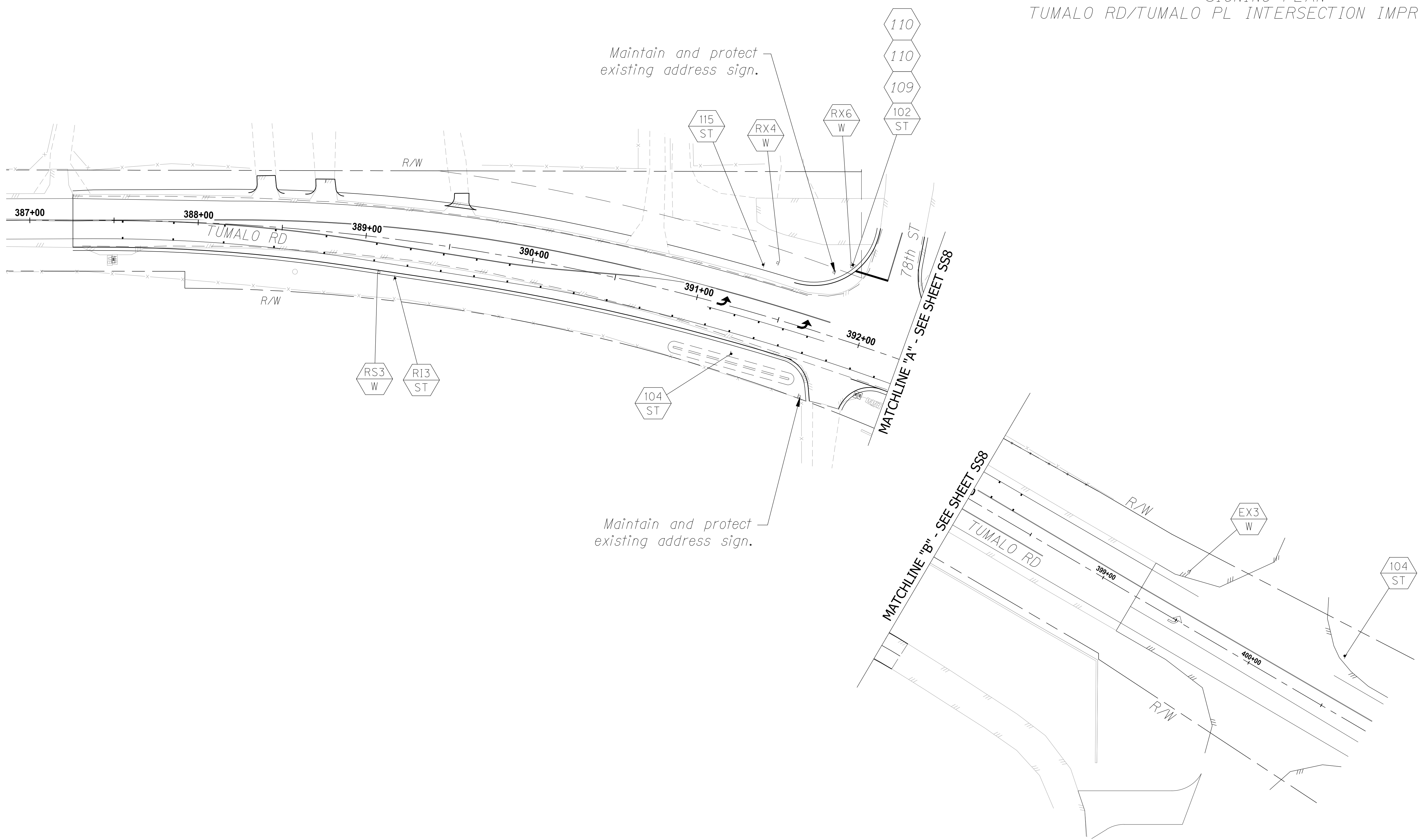
SIGNING PLAN

DRAWING NO.  
33 OF 38  
SS8

FOR BIDDING REFERENCE ONLY



SIGNING PLAN  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
FILE NAME	
JOB No.	
DATE	09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

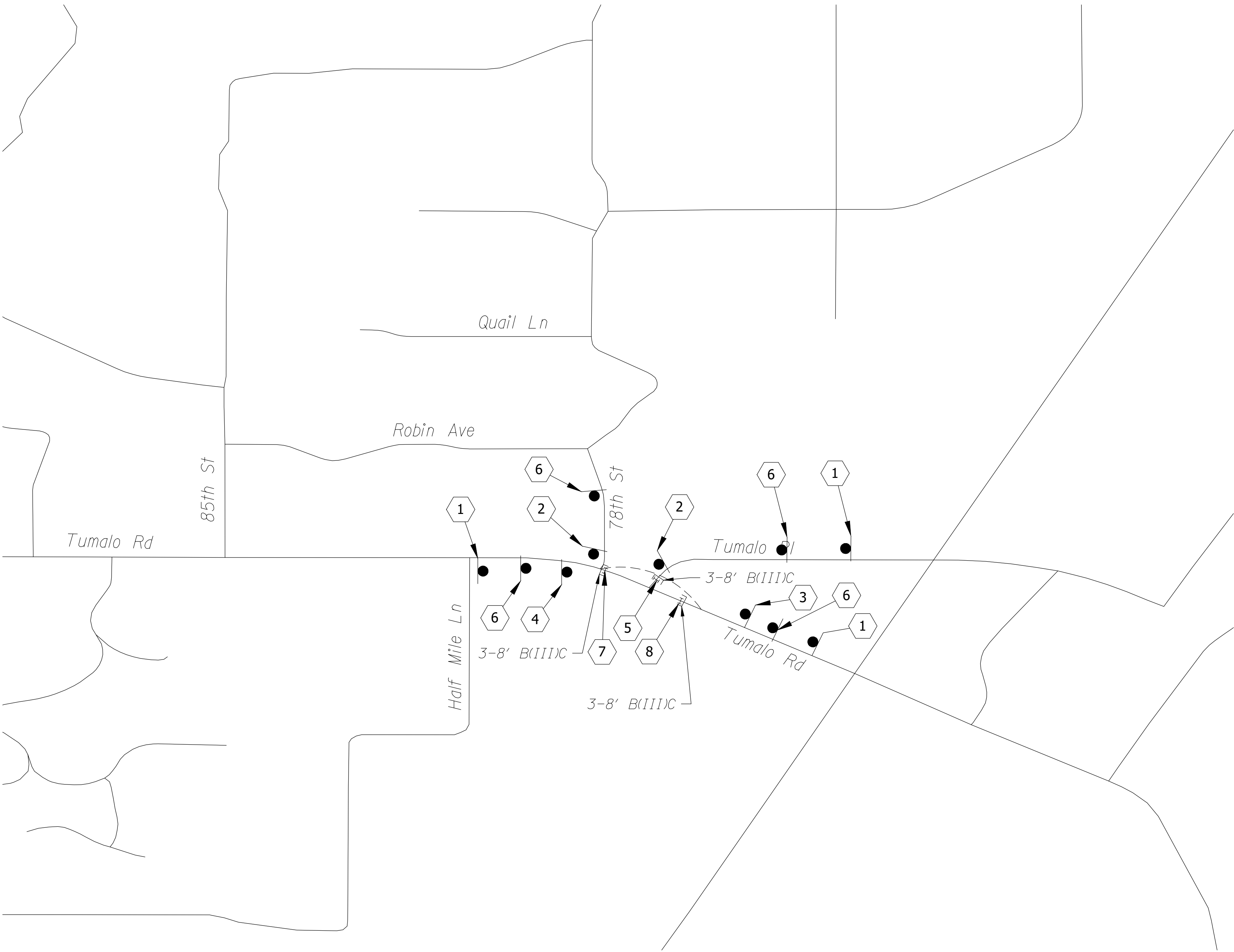
SIGNING PLAN
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DRAWING NO. 34 OF 38
SS9

FOR BIDDING REFERENCE ONLY



TEMPORARY SIGNING PLAN - STAGE 2-4  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



GENERAL NOTES

- 1. All sign dimensions listed in inches unless otherwise noted.
- 2. Maintain and protect existing signs.
- 3. Ensure a minimum of 100' spacing between existing and temporary signs.

LEGEND

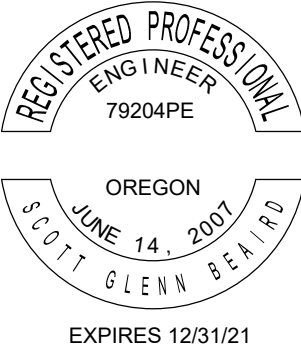
- Type III Barricade
- ┤ TSS Sign Support As Shown On ODOT Standard Dwg. TM821
- Post Mounted Detour Sign

CONSTRUCTION NOTES

- ① Portable changeable message signs to remain on project throughout construction and be located as directed.
- ② Install signs for flagging operations during Stage 3 as needed.

REVISIONS	DATE	BY	DESIGNED LTN
			DRAWN LTN
			CHECKED HJS
			APPROVED SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

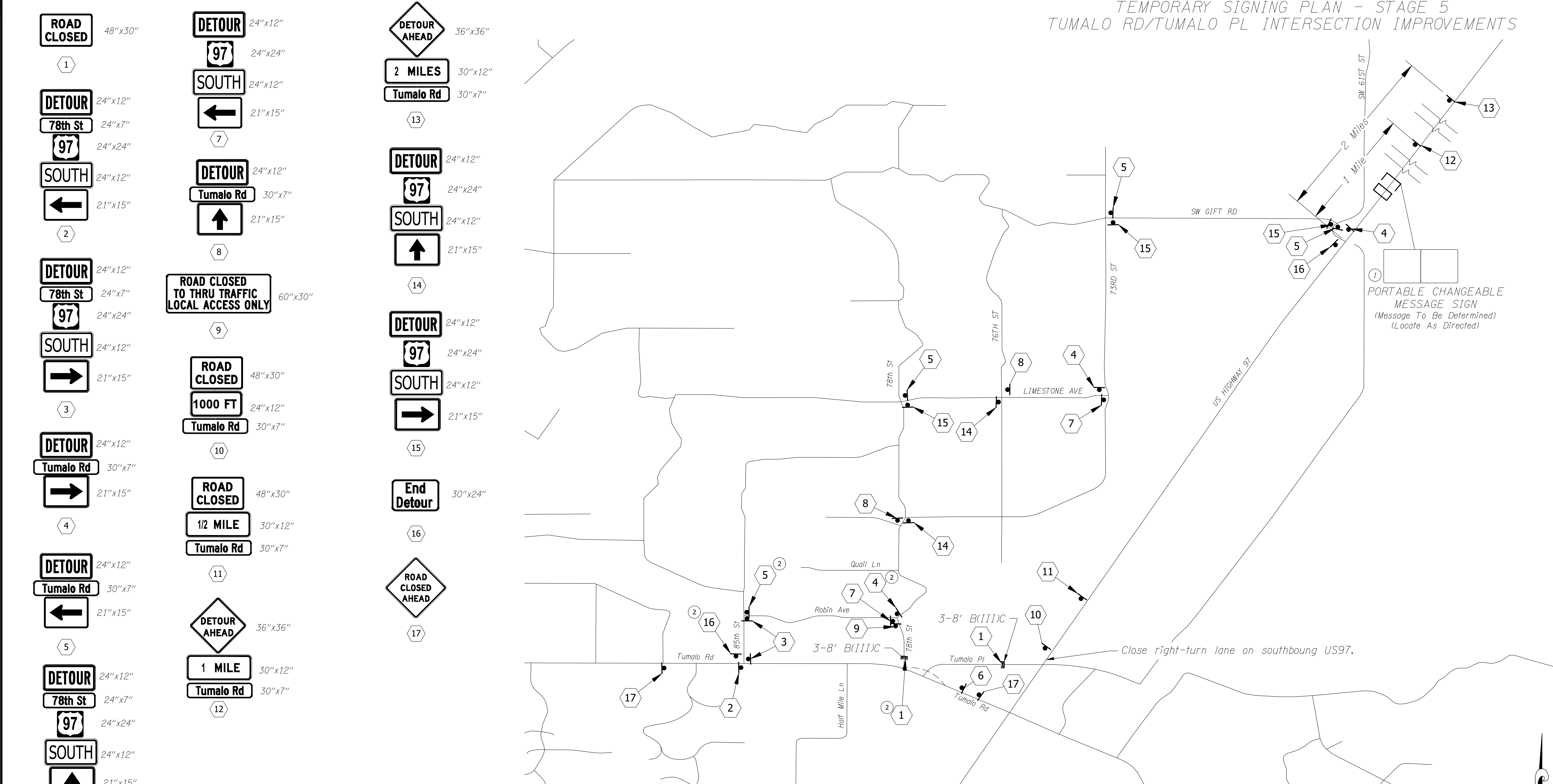
TEMPORARY SIGNING PLAN - STAGE 2-4
---------------------------------------

DRAWING NO. 35 OF 38
SS10

FOR BIDDING REFERENCE ONLY



TEMPORARY SIGNING PLAN - STAGE 5  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



LEGEND

- Type III Barricade
- TSS Sign Support As Shown On ODOT Standard Dwg. TM821
- Post Mounted Detour Sign

GENERAL NOTES

- All sign dimensions listed in inches unless otherwise noted.
- Maintain and protect existing signs.
- Ensure a minimum of 100' spacing between existing and temporary signs.
- Detour signs shall be covered or turned when detours are not active.

CONSTRUCTION NOTES

- Portable changeable message signs to remain on project throughout construction and be located as directed.
- When 78th St tie-in to Tumalo Rd is complete, remove detour signage on Robin Ave and direct traffic down from 78th St to Tumalo Rd.

REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE
09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

TEMPORARY SIGNING PLAN - STAGE 5
-------------------------------------

DRAWING NO. 36 OF 38
SS11

FOR BIDDING REFERENCE ONLY



L E G E N D

- FDN

Install Pacific Power approved street light foundation.
- JB  
PP

Install junction box (pedestal) provided by Pacific Power.
- LP

Pacific Power to furnish and install new Pacific Power approved street light. Street light pole shall be Valmont anchor base aluminum alloy light pole Model No. 270845806T4/2MA0832b45 and street light shall be American Electric Model: ATB0 30BLEDE13 MVOLT R3 3K.
- N

Light pole number (XX), see "Street Light Pole Schedule".
- PL

Install poly pull line (500# minimum strength).
- S

Install (S) inch electrical gray grade sch 40 pvc conduit.
- PS  
2

Power source for 120/240 volt, single phase.

STREET LIGHT POLE SCHEDULE

POLE NO.	STREET	STATION	OFFSET*	LUMINAIRE ARM LENGTH (FT)	LAMP	LUMINAIRE MOUNTING HEIGHT (FT)	TYPE	NOTES
1	Tumalo Rd	387+55.06	21.1' RT	8'	LED	25'	III	126 Watts
2	Tumalo Rd	389+03.46	27.5' LT	8'	LED	25'	III	126 Watts
3	Tumalo Rd	390+19.86	24.8' RT	8'	LED	25'	III	126 Watts
4	Tumalo Rd	391+32.78	25.0' RT	8'	LED	25'	III	126 Watts
5	Tumalo Rd	392+29.91	40.8' LT	8'	LED	25'	III	126 Watts
6	Tumalo Rd	393+47.90	31.2' RT	8'	LED	25'	III	126 Watts
7	Tumalo Rd	394+90.05	79.5' RT	8'	LED	25'	III	126 Watts
8	Tumalo Rd	394+33.96	43.2' LT	8'	LED	25'	III	126 Watts
9	Tumalo Rd	395+49.60	80.2' LT	8'	LED	25'	III	126 Watts
10	Tumalo Rd	395+96.00	41.0' RT	8'	LED	25'	III	126 Watts
11	Tumalo Rd	396+40.06	32.3' LT	8'	LED	25'	III	126 Watts
12	Tumalo Rd	397+62.25	27.9' LT	8'	LED	25'	III	126 Watts
13	Tumalo Rd	398+92.74	28.3' LT	8'	LED	25'	III	126 Watts
14	Tumalo PI	4+90.84	24.0' RT	8'	LED	25'	III	126 Watts
15	Tumalo PI	6+23.16	24.2' LT	8'	LED	25'	III	126 Watts
16	Tumalo PI	7+57.41	27.0' RT	8'	LED	25'	III	126 Watts
17	Tumalo PI	8+75.93	32.6' RT	8'	LED	25'	III	126 Watts
18	Tumalo PI	11+14.09	28.8' LT	8'	LED	25'	III	126 Watts

\* Offset measured from roadway centerline.

ILLUMINATION LEGEND  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS

G E N E R A L N O T E S

1. All illumination related work other than pole foundation shall be paid for at the contract price for "Switching, conduit, and wiring - Lump Sum."
2. Foundations, junction boxes, and conduit shall be installed at locations shown on plans. If conflicts arise, foundation, junction box, and conduit locations may be modified in the field per engineer's approval. All lighting equipment must be placed within the right-of-way. Place conduit in same trench as other conduits whenever possible.
3. Location of all existing utilities shall be verified prior to beginning any work. Coordinate all work with utility companies to eliminate conflicts.
4. All proposed street lighting junction boxes, conduits, pull ropes, and concrete foundations shall be installed by contractor per Pacific Power requirements. Refer to Pacific Power 2011 Electric Service Requirements, 2nd Edition.
5. All street light poles, luminaire arms, luminaires, lamps, and wiring shall be furnished and installed by Pacific Power. All junction boxes shall be furnished by Pacific Power and installed by the contractor.
6. Final light pole location(s) shall be approved in the field by the engineer prior to foundation installation.
7. This illumination plans set is accompanied by Oregon Standard Drawing TM472.
8. All conduit elbows shall be factory made and be long radius 36". For conduit runs longer than 150' or containing more than 270 degrees of bends, elbows shall be fiberglass.
9. Contractor to coordinate with Pacific Power ten (10) business days in advance of commencing illumination work. Contact Ryan Coburn at (541) 388-7129.
10. All conduit runs shall be approved by Pacific Power before backfill.
11. Cover and protect all new light pole foundations.

INTERSECTION LIGHT LEVEL SUMMARY

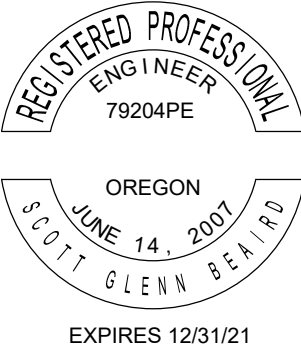
INTERSECTION	CLASSIFICATION		LIGHT LEVEL	UNIFORMITY	LIGHT LOSS FACTOR	BUG RATING
Tumalo Rd at Tumalo PI Roundabout	Collector/Collector	Target	≥ 1.1 fc	≤ 4 : 1	0.85	B2 U0 G2
		Design	1.7 fc	2.9 : 1		
Tumalo Rd at 78th St	Collector/Local	Target	≥ 0.9 fc	≤ 4 : 1	0.85	B2 U0 G2
		Design	1.5 fc	2.9 : 1		

ROADWAY LIGHT LEVEL SUMMARY

ROADWAY	CLASSIFICATION, PEDESTRIAN CONFLICT		LIGHT LEVEL	AVERAGE UNIFORMITY	LIGHT LOSS FACTOR	BUG RATING
Tumalo Rd - East Leg	Collector, Low	Target	≥ 0.6 fc	≤ 5.5 : 1	0.85	B2 U0 G2
		Design	1.4 fc	2.3 : 1	0.85	B2 U0 G2
Tumalo Rd - West Leg	Collector, Low	Target	≥ 0.6 fc	≤ 5.5 : 1	0.85	B2 U0 G2
		Design	1.4 fc	3.5 : 1	0.85	B2 U0 G2
Tumalo PI - North Leg	Collector, Low	Target	≥ 0.6 fc	≤ 5.5 : 1	0.85	B2 U0 G2
		Design	1.4 fc	2.8 : 1	0.85	B2 U0 G2

REVISIONS	DATE	BY	DESIGNED
			LTN
			DRAWN
			LTN
			CHECKED
			HJS
			APPROVED
			SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
JOB No.
DATE 09/02/2020



PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

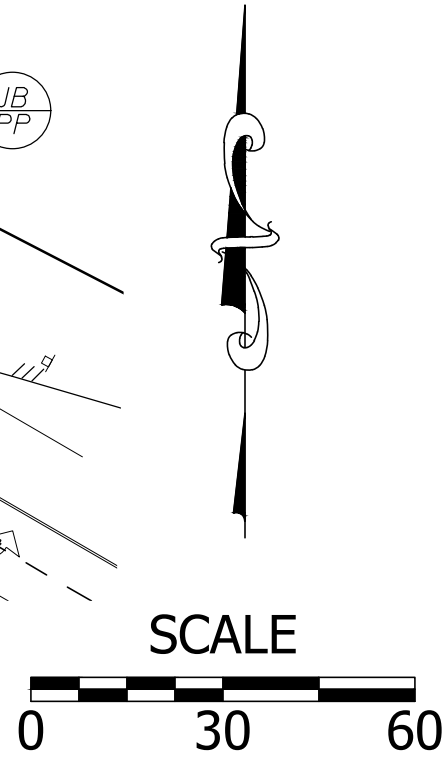
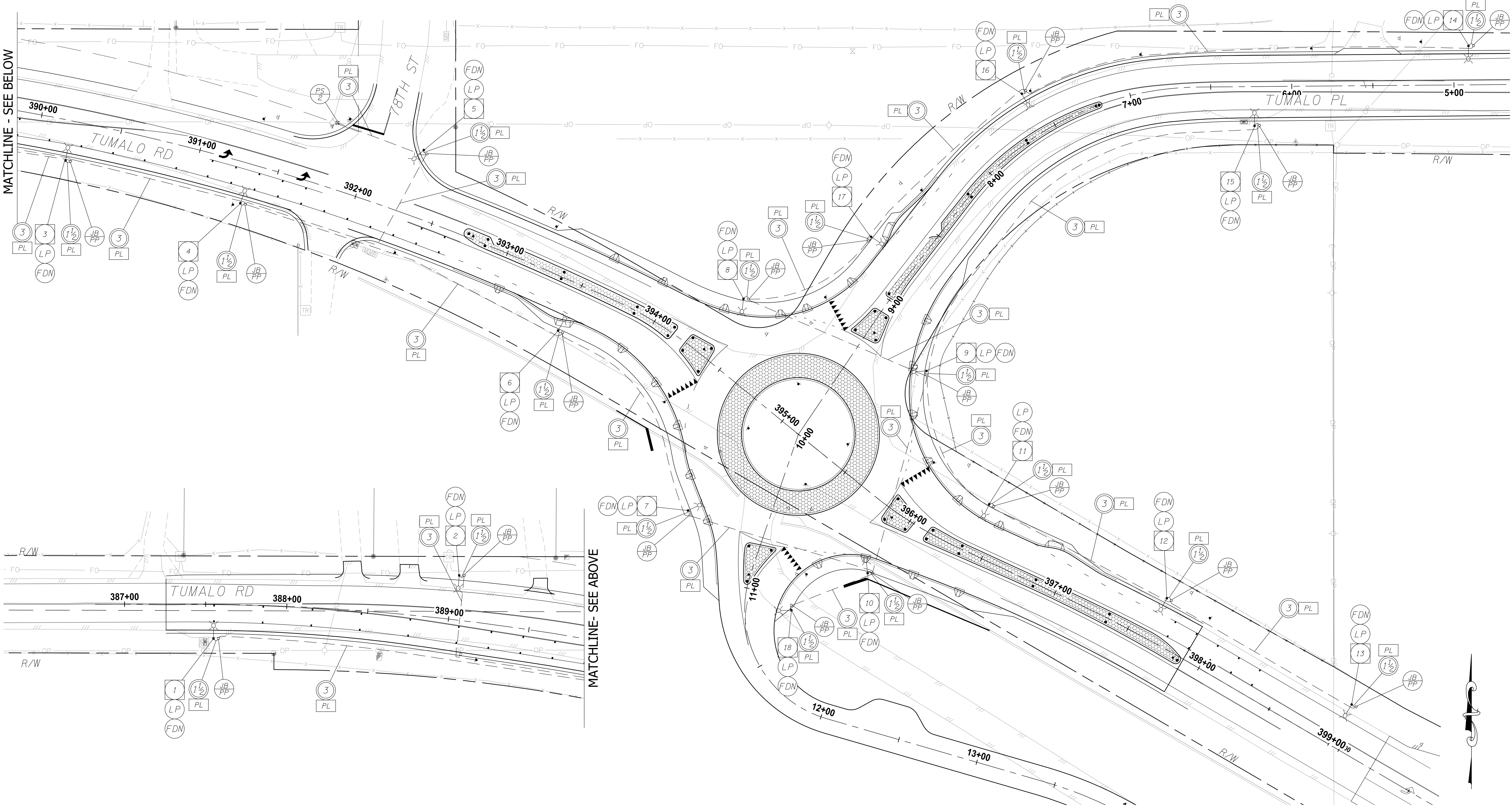
ILLUMINATION LEGEND
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DRAWING NO. 37 OF 38
IL1

FOR BIDDING REFERENCE ONLY



TUMALO RD & TUMALO PL INTERSECTION ILLUMINATION PLAN  
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS



REVISIONS	DATE	BY	DESIGNED LTN
			DRAWN LTN
			CHECKED HJS
			APPROVED SGB

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
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PROJECT NAME
TUMALO RD/TUMALO PL INTERSECTION IMPROVEMENTS
DESCHUTES COUNTY

TUMALO RD & TUMALO PL INTERSECTION ILLUMINATION PLAN
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FOR BIDDING REFERENCE ONLY
DRAWING NO. 38 OF 38
IL2