

CITY OF HAPPY VALLEY

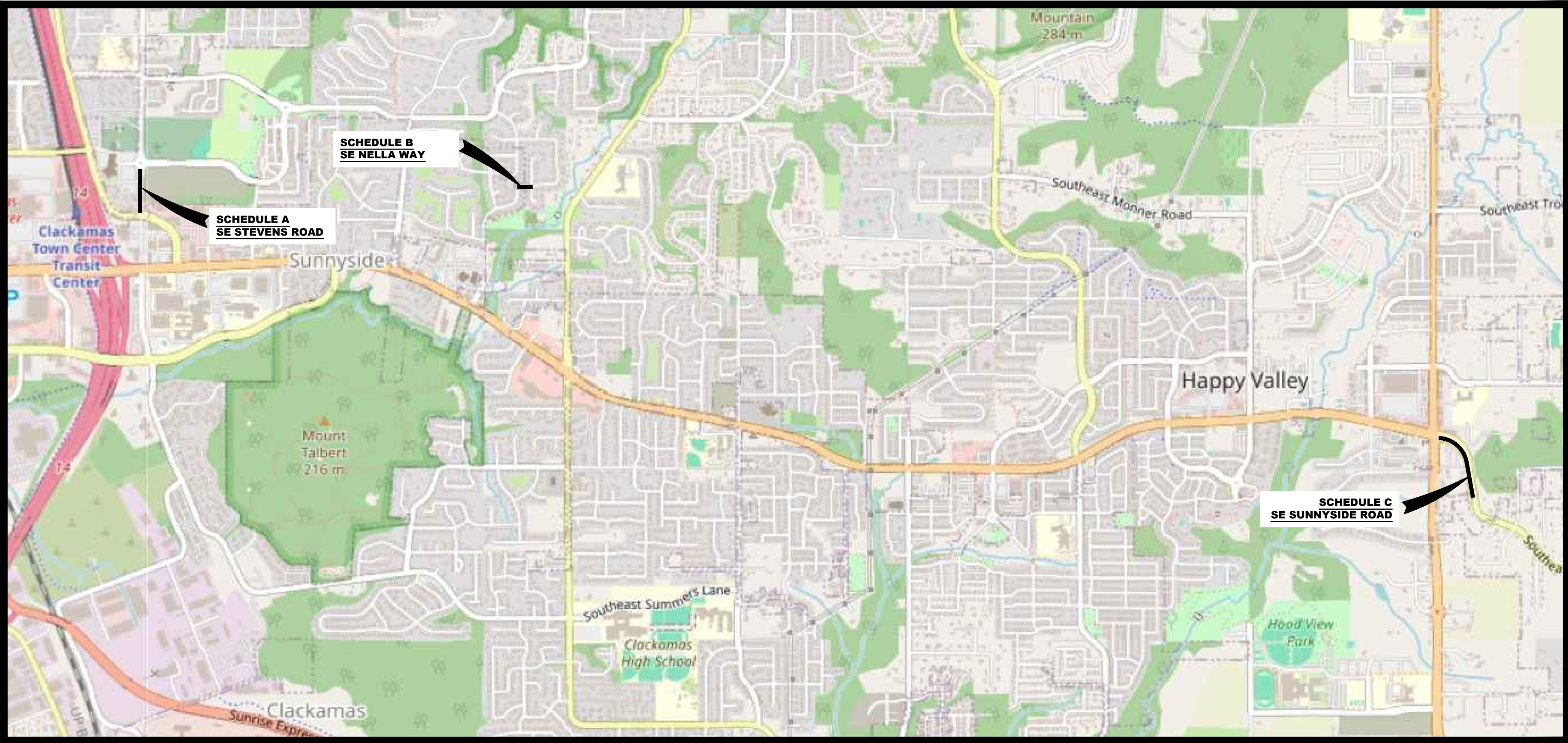
# 2025 STREET IMPROVEMENTS

CIP-02-25

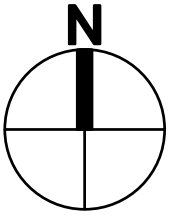
CLACKAMAS COUNTY, OREGON

JUNE 2025

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VICINITY MAP  
NTS



LEGEND	
	PROPOSED GRIND & INLAY
	PROPOSED OVERLAY AREA
	EXISTING CONCRETE SIDEWALK
	EXISTING CONCRETE CURB
	EXISTING CATCH BASIN
	EXISTING MANHOLE (STORM/SANITARY)
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING MONUMENT
	PROPOSED TACTILE WARNING
	PROPOSED STOP BAR
	PROPOSED CONCRETE CURB
	PROPOSED CONCRETE SIDEWALK

**NOTE**

CONTRACTORS ARE TO BUILD ALL CURB RAMPS TO MEET CURRENT ADA REGULATIONS AND CURRENT CITY OF HAPPY VALLEY STANDARD DETAILS. ANY RAMPS OR TRANSITION PANELS WITH SLOPES THAT EXCEED 8.3% WILL NEED DESIGN EXCEPTIONS GRANTED BY THE CITY. CONTRACTORS TO NOTIFY ENGINEER WHEN FORMS ARE SET AND READY FOR VIEW AND APPROVAL BEFORE CONCRETE IS PLACED.

CALL BEFORE  
YOU DIG 811  
UNDERGROUND SERVICE (USA)

BID SET

REGISTERED PROFESSIONAL ENGINEER  
18558  
DIGITALLY SIGNED  
OREGON  
JULY 6, 1999  
BRIAN D. LEE  
RENEW: 12/31/2026

ORIGINAL COPY OF DIGITALLY SIGNED DOCUMENT AVAILABLE UPON REQUEST

PACE PROJECT NO.  
**250032**

DWG NAME: P250032-CVR.DWG

SHEET **C1.0** OF **21**

FILE NAME: P:\V\02\250032 HAPPY VALLEY 2025 PAVEMENT IMPROVEMENTS\CAD\ENGINEERING\DWG\PRELIM\250032-CVR.DWG  
SAVE TIME: 5/29/2025 3:02:51 PM PLOT TIME: 5/20/2025 7:50 AM  
USER NAME: BARRY ANDERSON

DESIGNED	CA/MA					
DRAWN	CA					
CHECKED	BL					
SYM		REVISION	DATE	BY	APP'D	



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4500 Kruse Way, Suite 250  
Lake Oswego, OR 97035  
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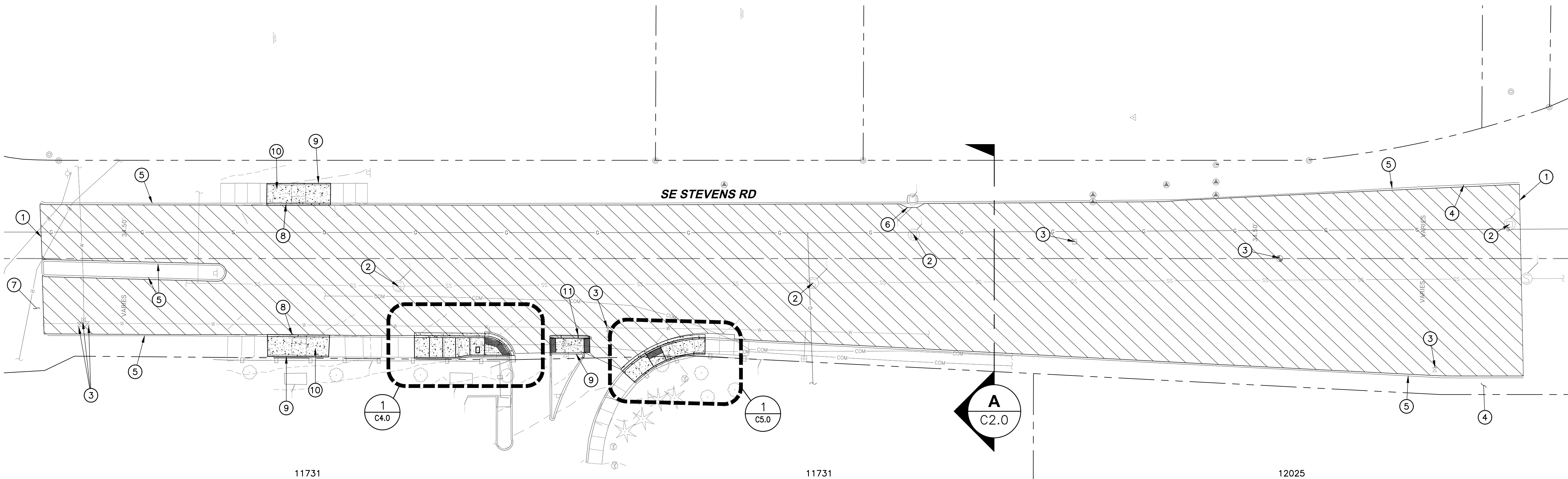
CITY OF HAPPY VALLEY  
ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**VERIFY SCALE**  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DATE  
JUNE 2025  
SCALE  
AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
COVER SHEET AND INDEX





GENERAL NOTES

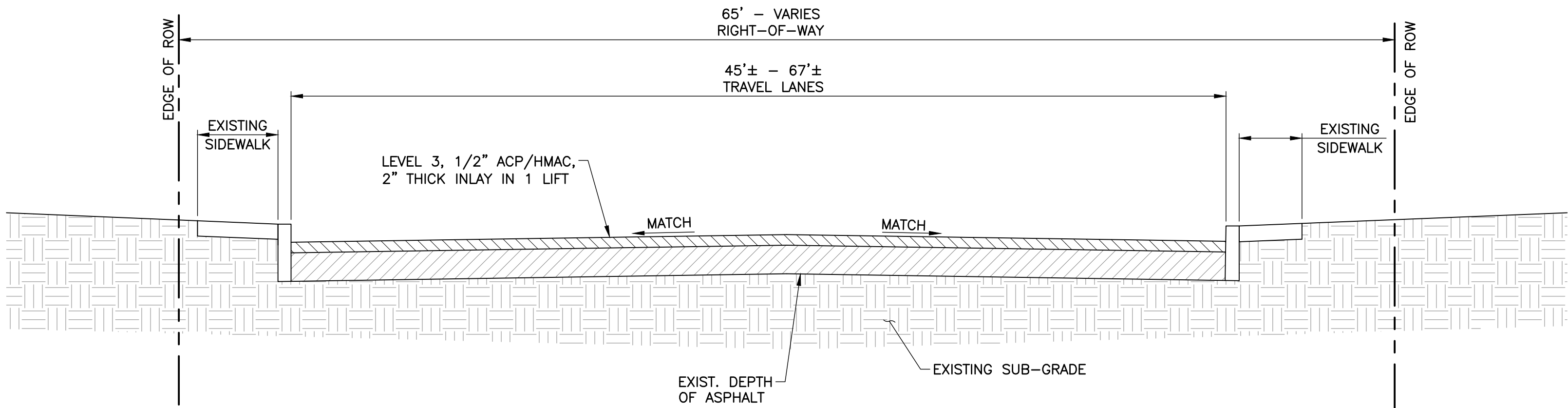
- A. MAINTAIN DRAINAGE FLOW PATTERNS AT ALL CURB RETURNS, DRIVEWAYS AND CATCH BASINS.
- B. CONTRACTOR TO REMOVE ALL THERMOPLASTIC STRIPING AND SYMBOLS PRIOR TO PLACING OVERLAY.
- C. TRAFFIC CONTROL WILL BE REQUIRED ON BOB SCUHMACHER. CONTRACTOR WILL NEED TO OBTAIN A CLACKAMAS COUNTY RIGHT-OF-WAY PERMIT.

KEYED NOTES:

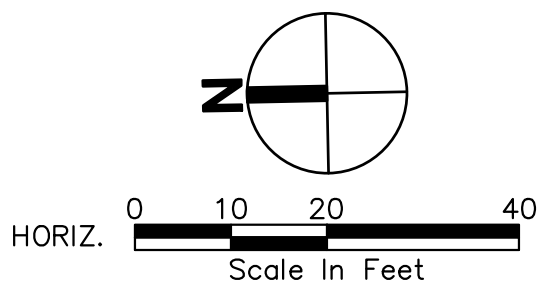
1. BEGIN 2" GRIND AND INLAY AS MARKED IN FIELD WITH BUTT JOINT TO MATCH EXISTING GRADE PER DETAIL 1 ON SHEET C14.0.
2. ADJUST MANHOLE RIM AS NEEDED.
3. ADJUST VALVE CAN LID AS NEEDED.
4. PROTECT EXISTING CONCRETE DRIVE.
5. PROTECT EXISTING CURB.
6. ADJUST NEW GRADE TO MATCH EXISTING CATCH BASIN ELEVATIONS AND INSTALL ESC BMP PER DETAIL 920 ON SHEET C17.0.
7. PROTECT EXISTING CONCRETE WALK.
8. NEW CONCRETE CURB PER DETAIL 235 ON SHEET C12.0.
9. NEW CONCRETE CURB PER DETAIL 250 ON SHEET C12.0.
10. REMOVE EXISTING ADA RAMP.
11. NEW PRECAST CONCRETE TYPE C TRAFFIC CURB PER DETAIL 2 ON SHEET C14.0. INSTALL #5 DOWELS 2'-6" LONG. MINIMUM OF TWO PER CURB SECTION.

LEGEND

PROPOSED GRIND & INLAY



SCHEDULE A TYPICAL CROSS SECTION  
NTS



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PACE PROJECT NO.  
**250032**

DWG NAME: P250032-SCHA-SITE.DWG

SHEET **C2.0** OF **21**

FILE NAME: P:\V\0250032- HAPPY VALLEY\2025 PRELIM IMPROVEMENTS\DWG\ENGINEERING SHEETS\PRELIM\250032-SCHA-SITE.DWG  
SAVE TIME: 5/29/2025 7:18:59 PM PLOT TIME: 5/30/2025 7:50 AM  
USER NAME: MARK ANDERSON

DESIGNED	CA/MA								
DRAWN	CA								
CHECKED	BL								
SYM		REVISION		DATE	BY	APP'D			



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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE A  
SE STEVENS RD IMPROVEMENTS



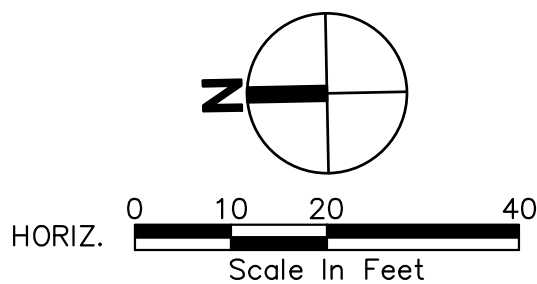
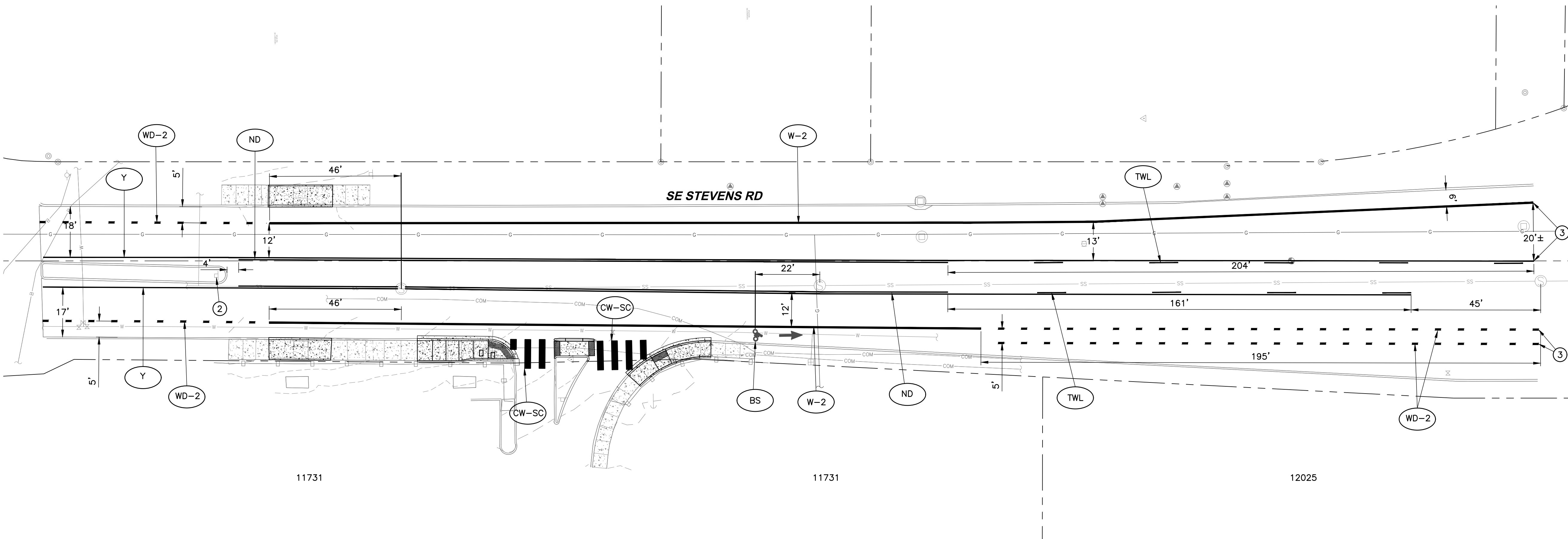
GENERAL NOTES:

- A. CITY TO CONFIRM ALL STRIPING LOCATIONS IN FIELD PRIOR TO APPLICATION.
- B. ALL STRIPING TO BE THERMOPLASTIC.

# KEYED NOTES:

1. EXISTING STAMPED CONCRETE CROSSWALK TO REMAIN.
2. PROTECT EXISTING SIGN.
3. MATCH EXISTING STRIPING.

- Y 4" WIDE YELLOW NO PASS STRIPE PER DETAIL TM500 ON SHEET C13.0.
- ND 4" WIDE YELLOW NARROW DOUBLE NO-PASS STRIPE PER DETAIL TM500 ON SHEET C13.0.
- W-2 8" WIDE WHITE STRIPE PER DETAIL TM500 ON SHEET C13.0.
- WD-2 8" WIDE WHITE DOTTED LANE LINE PER DETAIL TM500 ON SHEET C13.0.
- TWL 4" WIDE YELLOW TWO-WAY LEFT TURN LINE PER DETAIL TM500 ON SHEET C13.0.
- BS WHITE BIKE LANE STENCIL PER DETAIL TM503 ON SHEET C13.0.
- CW-SC CROSSWALK PER DETAIL TM530 ON SHEET C13.0.



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RENEWALS: 12/31/2026

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**250032**

DWG NAME: P250032-SCHA-SITE.DWG

SHEET **C3.0** OF **21**

FILE NAME: P:\V\0250032- HAPPY VALLEY\2025 PRELIM IMPROVEMENTS\CAD\ENGINEERING\DWG\PRELIM\250032-SCHA-SITE.DWG  
SAVE TIME: 5/29/2025 7:18:59 PM PLOT TIME: 5/30/2025 7:50 AM  
USER NAME: MARK ANDERSON

DESIGNED	CA/MA								
DRAWN	CA								
CHECKED	BL								
SYM		REVISION		DATE	BY	APP'D			



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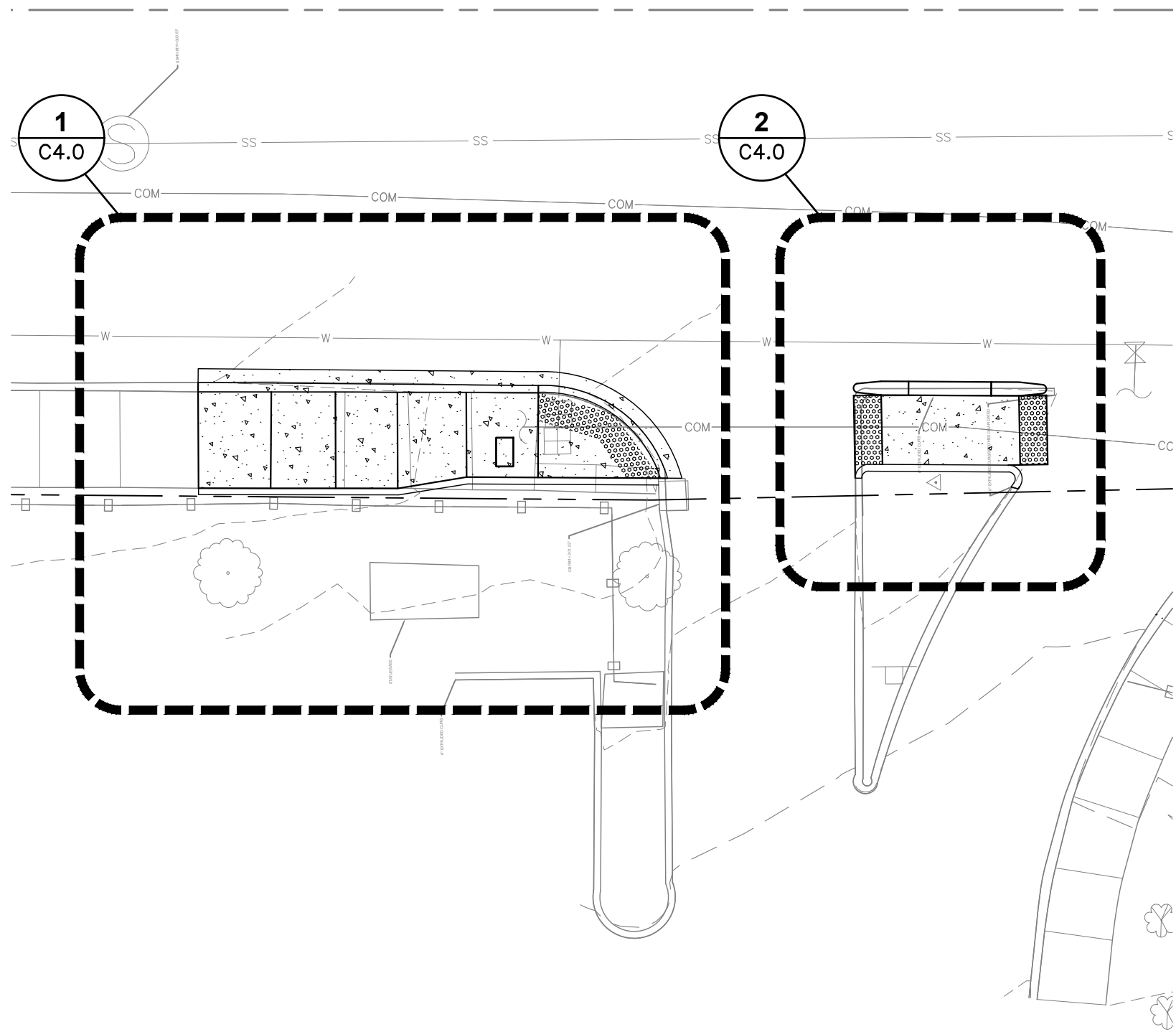
CITY OF HAPPY VALLEY  
ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

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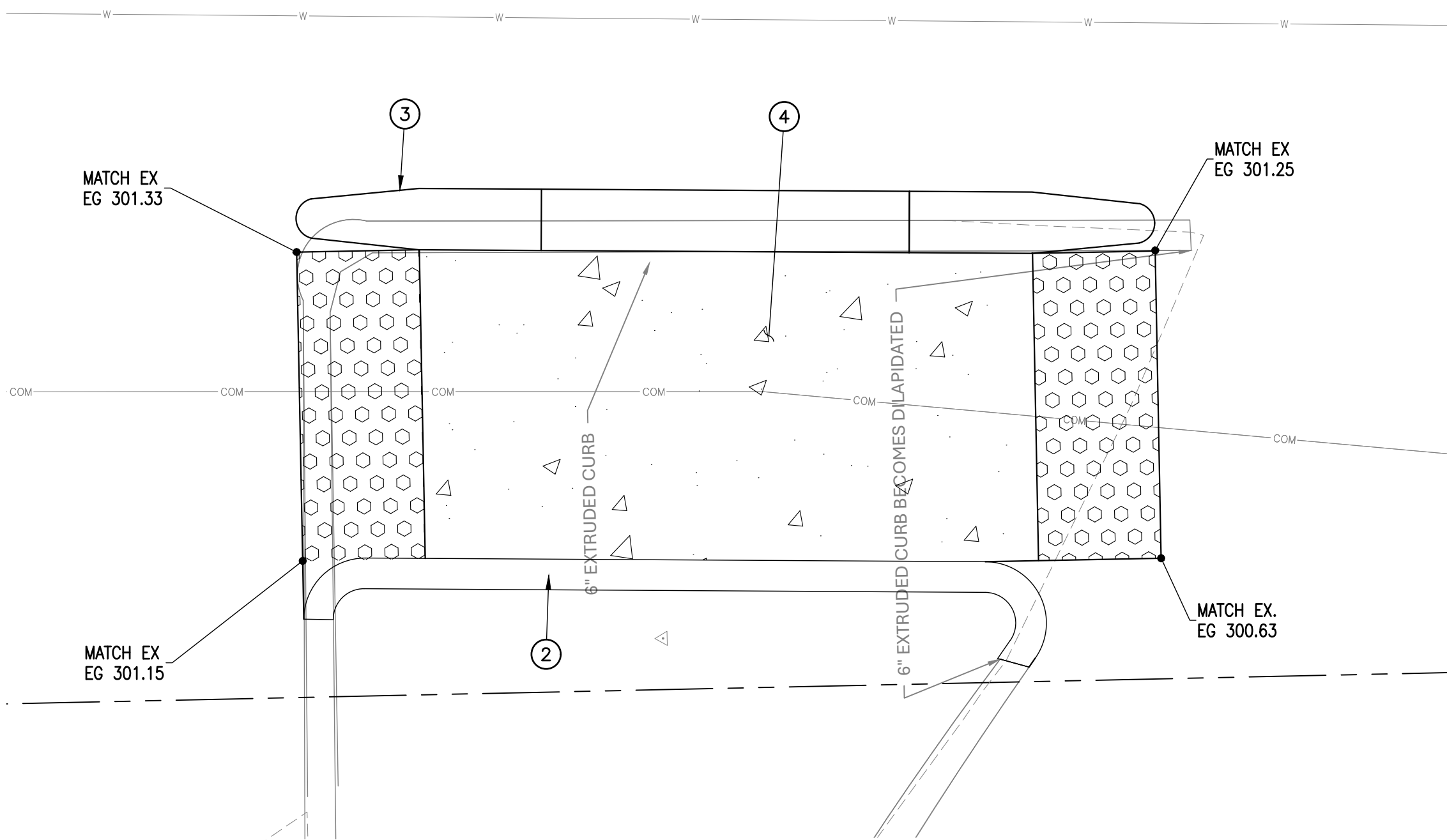
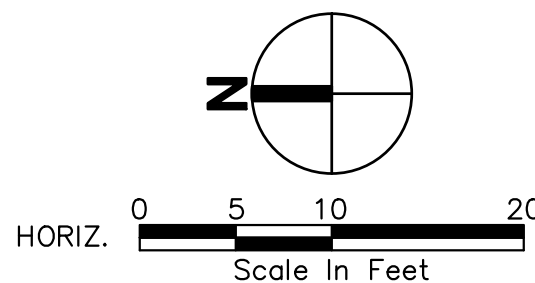
DATE  
JUNE 2025  
SCALE  
AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE A  
SE STEVENS RD STRIPING PLAN

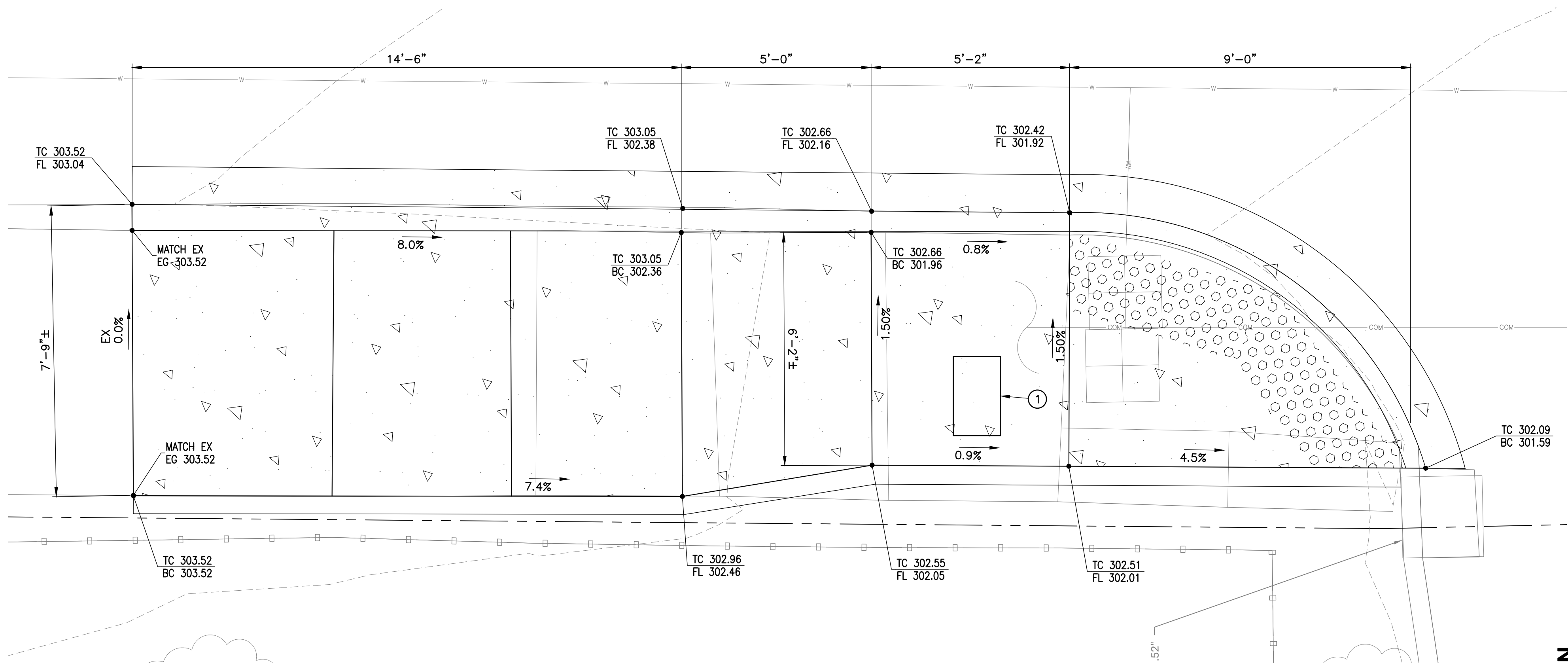




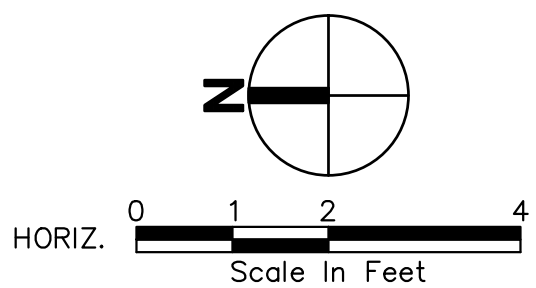
SE STEVENS ROAD NORTH ADA RAMP



2 RAMP DETAIL  
C4.0 SCALE: 1"=2'



1 RAMP DETAIL  
C4.0 SCALE: 1"=2'



GENERAL NOTES:

- SIDEWALK REMOVAL AND CURB REMOVAL SHALL BE TO NEAREST SCORE JOINT IN RELATIONSHIP TO THE DIMENSIONS SHOWN.
- CONTRACTOR TO RESTORE ALL LANDSCAPED AREAS IN LANDSCAPED PLANTERS AND ON PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION ALONG WITH THE REPAIR AND RELOCATION OF ANY IRRIGATION LINES, VALVES, OR SPRINKLERS ENCOUNTERED. IRRIGATION LINES TO BE RELOCATED SO NO LINES RUN UNDER THE SIDEWALK.
- ADA RAMPS TO BE CONSTRUCTED PER CITY OF HAPPY VALLEY STANDARD DRAWINGS NUMBER 245 AND 246 ON SHEET C12.0.
- CONTRACTORS ARE TO BUILD ALL CURB RAMPS TO MEET CURRENT ADA REGULATIONS AND CURRENT CITY OF HAPPY VALLEY STANDARD DETAILS. TRANSITION PANELS WITH SLOPES THAT EXCEED 8.3% UP TO 15 FEET FROM THE CURB RAMP WILL NEED DESIGN EXCEPTIONS GRANTED BY THE CITY. CONTRACTORS TO NOTIFY ENGINEER WHEN FORMS ARE SET AND READY FOR VIEW AND APPROVAL BEFORE CONCRETE IS PLACED.
- NEW VERTICAL CURB TO BE PER CITY OF HAPPY VALLEY STANDARD DETAIL 235 ON SHEET C12.0.
- NEW CURB AND GUTTER TO BE PER CITY OF HAPPY VALLEY STANDARD DETAIL 230 ON SHEET C12.0.

KEYED NOTES:

- ADJUST WATER METER BOX TO MATCH NEW SIDEWALK ELEVATION. THE BOX WILL BE RELOCATED BY SUNRISE WATER AUTHORITY ONCE THE EXISTING SIDEWALK HAS BEEN DEMOLISHED.
- REMOVE EXISTING CONCRETE CURB AND PORTION OF ISLAND. INSTALL NEW VERTICAL CURB PER DETAIL 235 ON SHEET C12.0 AND REPAIR ISLAND AS NECESSARY.
- NEW PRECAST CONCRETE TYPE C TRAFFIC CURB PER DETAIL 2 ON SHEET C14.0.
- CONCRETE SIDEWALK PER DETAIL 250 ON SHEET C12.0.

FILE NAME: P:\V\03\250032-HAPPY VALLEY\2025 PRELIM\IMPROVEMENTS\CAD\ENGINEERING\DWG\PRELIM\250032-SCHA-SITE.DWG  
SAVE TIME: 5/29/2025 7:18:59 PM PLOT TIME: 5/30/2025 7:51 AM  
USER NAME: WARR, ANDREW

DESIGNED	CA/MA								
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CHECKED	BL								
SYM		REVISION		DATE	BY	APP'D			



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HAPPY VALLEY, OR 97086

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AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE A  
SE STEVENS RD NORTH ADA RAMP DETAILS

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UNDERGROUND SERVICE (USA)  
BID SET



PACE PROJECT NO.  
250032  
DWG NAME: P250032-SCHA-SITE.DWG  
SHEET C4.0 OF 21







GENERAL NOTES:

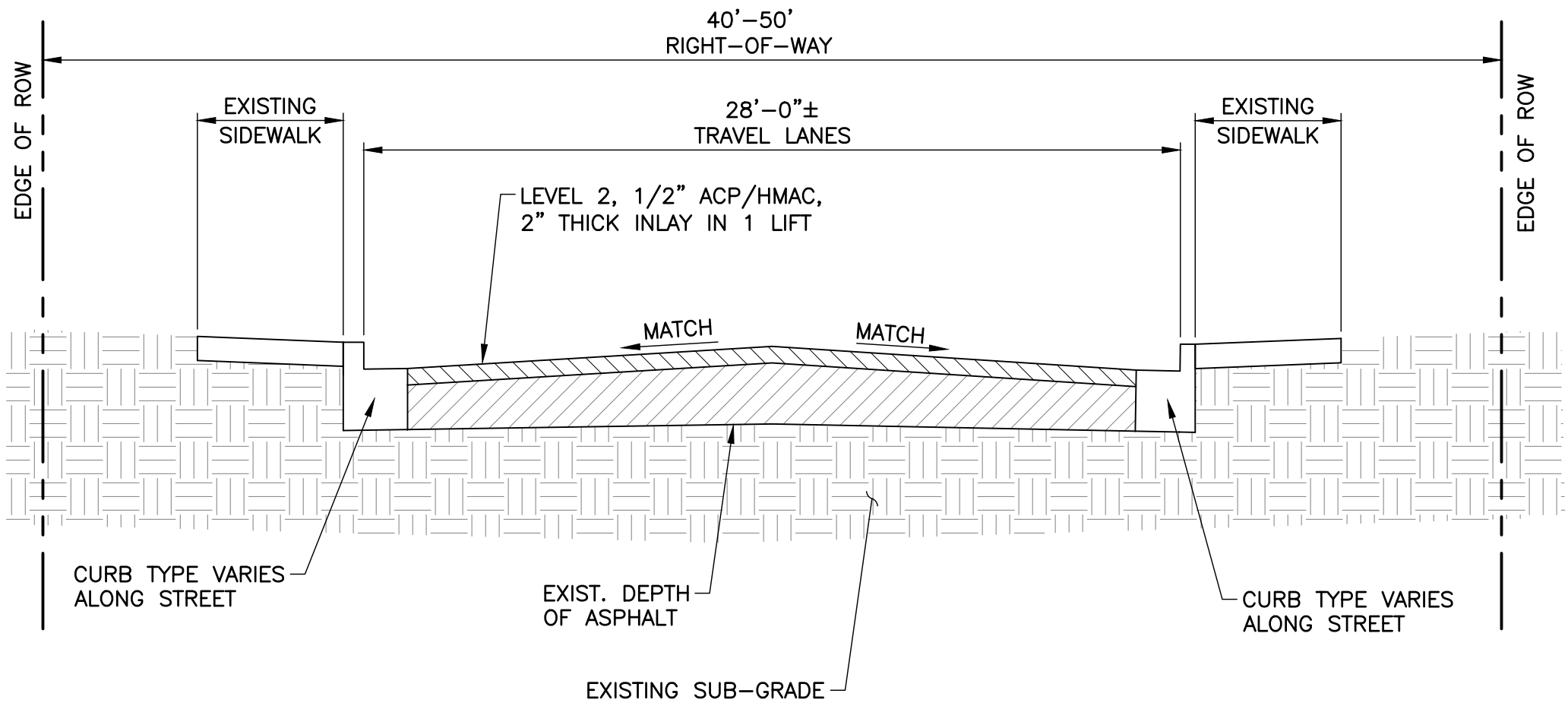
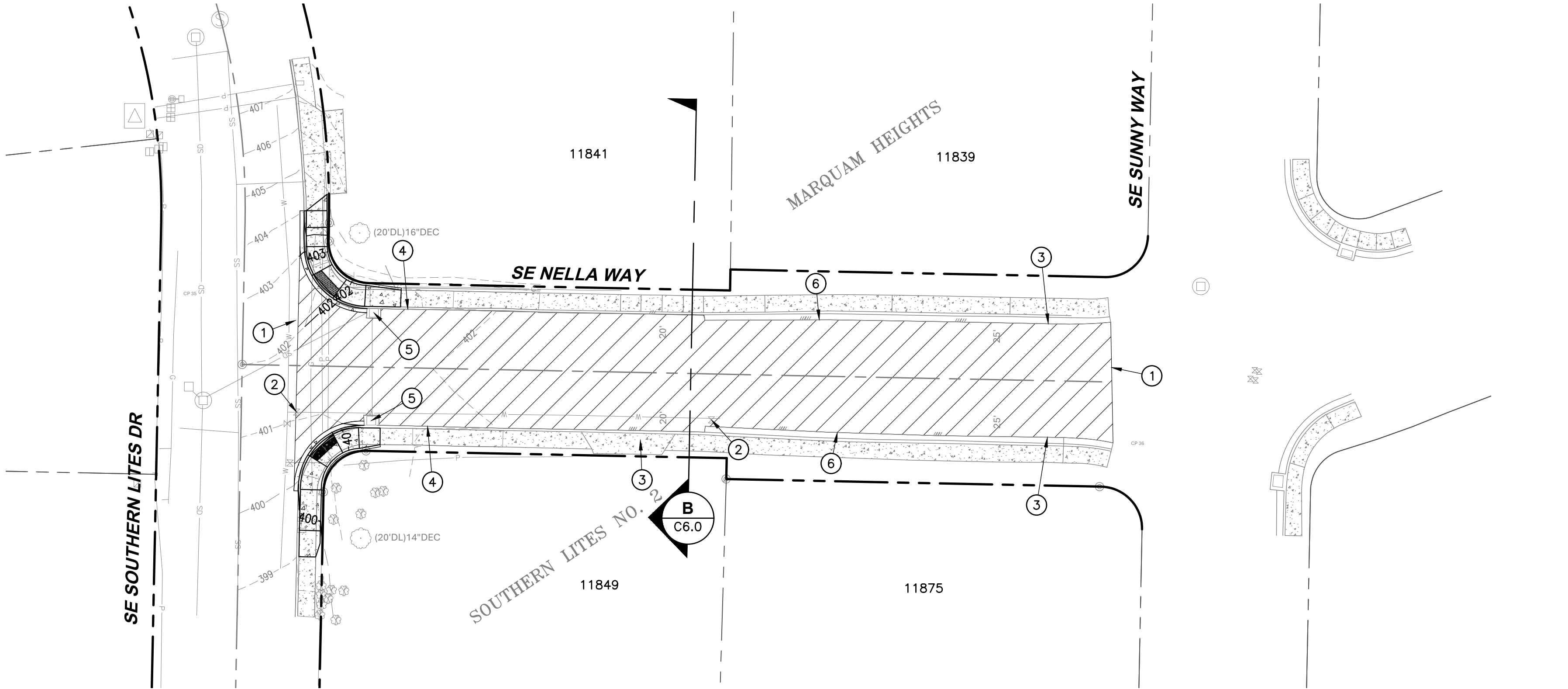
- A. MAINTAIN DRAINAGE FLOW PATTERNS AT ALL CURB RETURNS, DRIVEWAYS AND CATCH BASINS.
- B. CONTRACTOR TO REMOVE ALL THERMOPLASTIC STRIPING AND SYMBOLS PRIOR TO PLACING OVERLAY.
- C. FOR PLACEMENT OF TRAFFIC CONTROL AND WORK IN SE SOUTHERN LITES DRIVE CONTRACTOR TO OBTAIN RIGHT OF WAY PERMIT FROM CLACKAMAS COUNTY.

#KEYED NOTES:

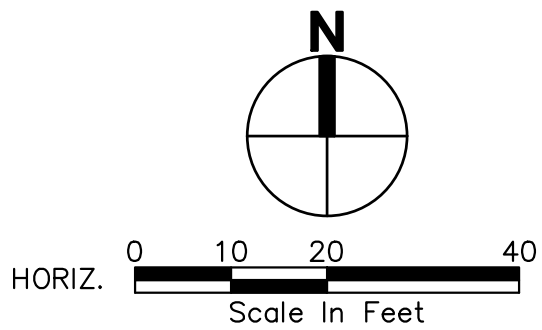
1. BEGIN 2" GRIND AND INLAY AS MARKED IN FIELD WITH BUTT JOINT TO MATCH EXISTING GRADE PER DETAIL 1 ON SHEET C14.0.
2. ADJUST VALVE CAN LID AS NEEDED.
3. PROTECT EXISTING CONCRETE DRIVE.
4. PROTECT EXISTING CURB.
5. ADJUST NEW GRADE TO MATCH EXISTING CATCH BASIN ELEVATIONS AND INSTALL ESC BMP PER DETAIL 920 ON SHEET C17.0.
6. PROTECT EXISTING CONCRETE CURB AND GUTTER.

LEGEND

PROPOSED GRIND & INLAY

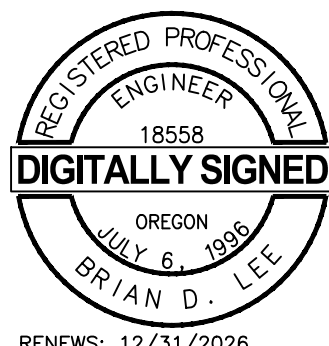


SCHEDULE B TYPICAL CROSS SECTION



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250032

DWG NAME: P250032-SCHB-SITE.DWG

SHEET C6.0 OF 21

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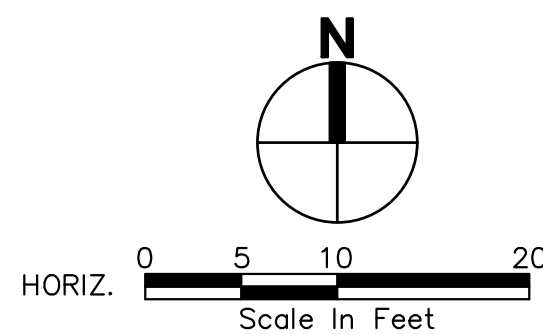
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE B  
SE NELLA WAY IMPROVEMENTS





- A. SIDEWALK REMOVAL AND CURB REMOVAL SHALL BE TO NEAREST SCORE JOINT IN RELATIONSHIP TO THE DIMENSIONS SHOWN.
- B. CONTRACTOR TO RESTORE ALL LANDSCAPED AREAS IN LANDSCAPED PLANTERS AND ON PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION ALONG WITH THE REPAIR AND RELOCATION OF ANY IRRIGATION LINES, VALVES, OR SPRINKLERS ENCOUNTERED. IRRIGATION LINES TO BE RELOCATED SO NO LINES RUN UNDER THE SIDEWALK.
- C. ADA RAMPS TO BE CONSTRUCTED PER CITY OF HAPPY VALLEY STANDARD DRAWINGS NUMBER 245 ON SHEET C12.0.
- D. CONTRACTORS ARE TO BUILD ALL CURB RAMPS TO MEET CURRENT ADA REGULATIONS AND CURRENT CITY OF HAPPY VALLEY STANDARD DETAILS. TRANSITION PANELS WITH SLOPES THAT EXCEED 8.3% UP TO 15 FEET FROM THE CURB RAMP WILL NEED DESIGN EXCEPTIONS GRANTED BY THE CITY. CONTRACTORS TO NOTIFY ENGINEER WHEN FORMS ARE SET AND READY FOR VIEW AND APPROVAL BEFORE CONCRETE IS PLACED.
- E. NEW VERTICAL CURB TO BE PER CITY OF HAPPY VALLEY STANDARD DETAIL 235 ON SHEET C12.0.
- F. FOR PLACEMENT OF TRAFFIC CONTROL AND WORK IN SE SOUTHERN LITES DRIVE CONTRACTOR TO OBTAIN RIGHT OF WAY PERMIT.

1. REMOVE AND REINSTALL STOP SIGN.
2. PROTECT EXISTING CONCRETE DRIVEWAY.
3. ELEVATIONS HAVE BEEN RAISED OR LOWERED FROM EXISTING GRADE TO ACHIEVE SLOPES.
4. EXISTING CONCRETE EDGE TREATMENT TO BE REMOVED AND RETURNED TO PROPERTY OWNER.
5. TRANSITION PANEL TO MATCH EXISTING GRADES

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ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086**

**VERIFY SCALE**  
BAR IS ONE INCH  
ON ORIGINAL DRAWING.  
0 [REDACTED] 1"  
IF NOT ONE INCH ON  
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SCALES ACCORDINGLY.

DATE	JUNE 2025
SCALE	AS SHOWN

**HAPPY VALLEY 2025 STREET IMPROVEMENTS**  
**CIP-02-25**  
**SCHEDULE B**  
**SE NELLA WAY NE ADA RAMP DETAILS**



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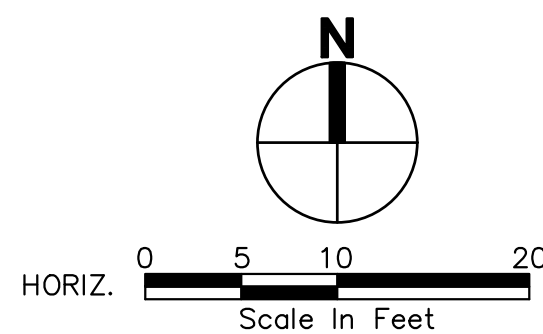
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**250032**

DWG NAME: P250032-SCHB-SITE.DWG

SHEET **C7.0** OF **21**



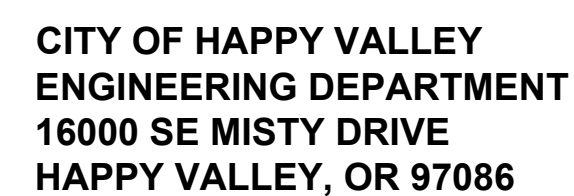


1. PROTECT EXISTING FIRE HYDRANT.
2. REMOVE AND REINSTALL MAIL BOXES. TEMPORARILY RELOCATE SO MAIL CARRIER CAN CONTINUE TO DELIVER MAIL.
3. EXISTING CONCRETE EDGE TREATMENT TO BE REMOVED AND RETURNED TO PROPERTY OWNER.

DWG NAME: P250032-SCHB-SITE.DWG

C8.0 31

DESIGNED	CA/MA				
DRAWN	CA				
CHECKED	BL				
		SYM	REVISION	DATE	BY APP'1



DATE	JUNE 2025
SCALE	AS SHOWN

**HAPPY VALLEY 2025 STREET IMPROVEMENTS**  
**CIP-02-25**  
**SCHEDULE B**  
**SE NELLA WAY SE ADA RAMP DETAILS**

PAGE PROJECT NO.  
**250032**  
 DWG NAME: P250032-SCHB-SITE.DWG  
 SHEET **C8.0** OF **21**



FILE NAME: P:\V\0250032- HAPPY VALLEY\2025 PRELIM\IMPROVEMENTS\CAD\ENGINEERING SHEETS\PRELIM\250032-SCHC-SITE.DWG  
SAVE TIME: 5/19/2025 2:30:52 PM PLOT TIME: 5/20/2025 7:55 AM  
USER NAME: MARK ANDERSON

NE 1/4, SEC. 06, TWP. 2S, RGE. 3E., W.M.

#### GENERAL NOTES:

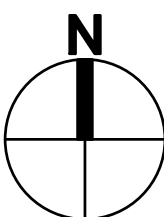
- MAINTAIN DRAINAGE FLOW PATTERNS AT ALL CURB RETURNS, DRIVEWAYS AND CATCH BASINS.
- CONTRACTOR TO REMOVE ALL THERMOPLASTIC STRIPING AND SYMBOLS PRIOR TO PLACING OVERLAY.
- TRAFFIC CONTROL WILL BE REQUIRED ON SE 172ND AVENUE AND SE SUNNYSIDE ROAD (WEST OF SE 172ND AVENUE). CONTRACTOR WILL NEED TO OBTAIN A CLACKAMAS COUNTY RIGHT-OF-WAY PERMIT.
- CLACKAMAS COUNTY HAS RECOMMENDED PHASING THE WORK SUCH THAT ONE WB-LEFT TURN AND ONE WB-THROUGH LANE ARE OPEN AT ALL TIMES.
- GOODWILL AND STARBUCKS WILL HAVE LIMITED ACCESS DURING THIS WORK. CONTRACTOR WILL NEED TO NOTIFY THESE PROPERTIES IN ADVANCE SO THEY CAN PLAN FOR THE IMPACTS.

#### # KEYED NOTES:

- BEGIN 2" GRIND AND INLAY AS MARKED IN FIELD WITH BUTT JOINT TO MATCH EXISTING GRADE.
- ADJUST MANHOLE RIM AS NEEDED.
- ADJUST VALVE CAN LID AS NEEDED.
- PROTECT EXISTING CONCRETE DRIVE.
- PROTECT EXISTING ASPHALT DRIVE.
- PROTECT EXISTING CURB.
- ADJUST NEW GRADE TO MATCH EXISTING CATCH BASIN ELEVATIONS AND INSTALL ESC BMP PER DETAIL 905 ON SHEET C17.0.
- EXISTING PAVEMENT JOINT.
- THIS DRIVEWAY ALLOWS ACCESS TO A FEW HOMES. CONTRACTOR WILL NEED TO PROVIDE PROPER NOTIFICATION AND MAYBE PROVIDE A DETOUR ROUTE.

#### LEGEND

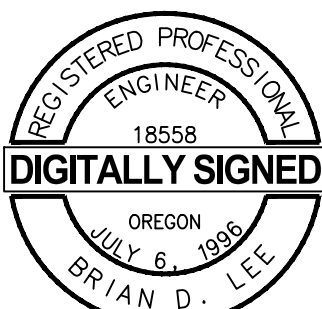
 PROPOSED GRIND & INLAY



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CALL BEFORE  
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UNDERGROUND SERVICE (USA)

BID SET



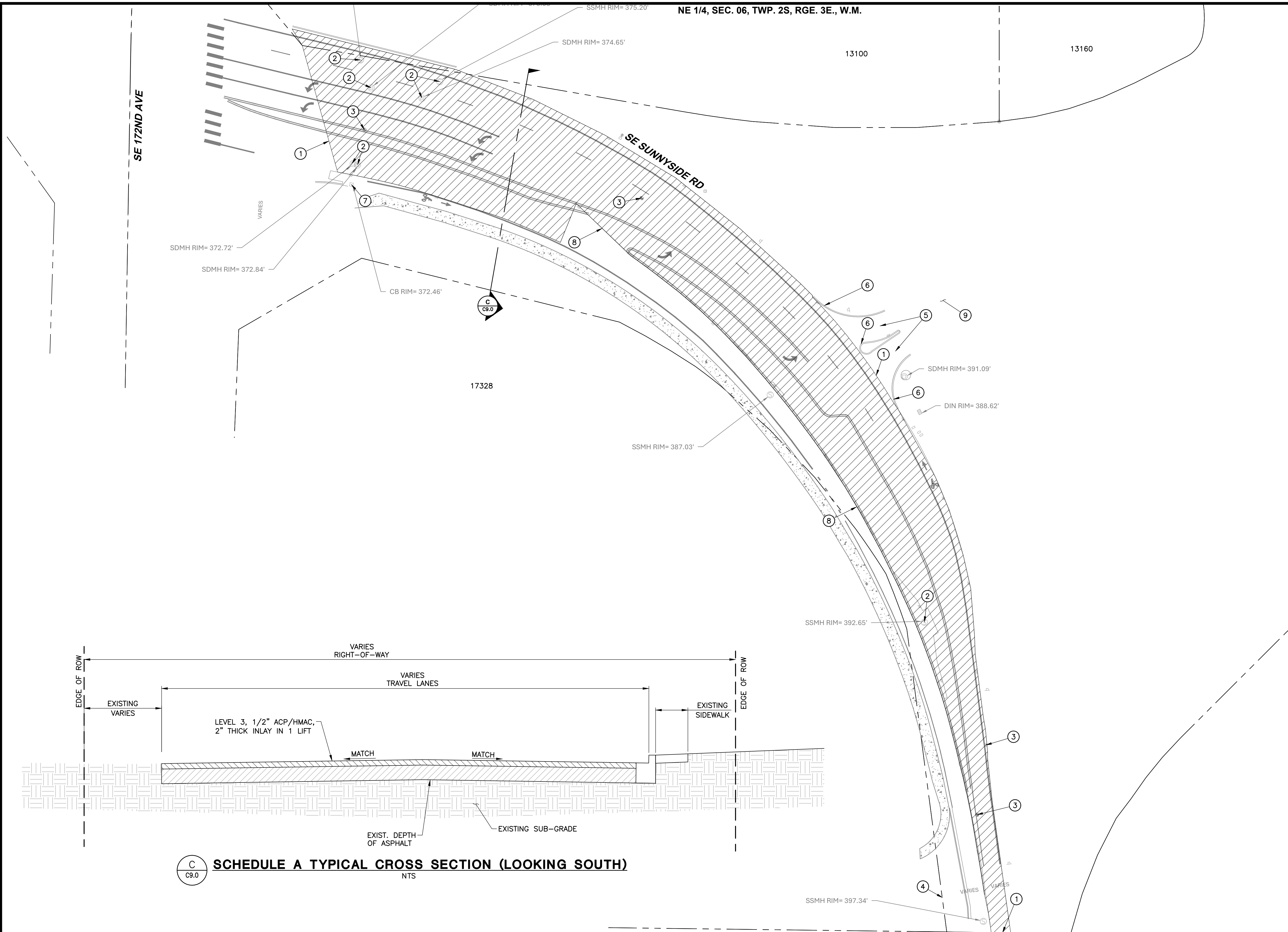
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DOCUMENT AVAILABLE UPON REQUEST

PACE PROJECT NO.  
**250032**

DWG NAME: P250032-SCHC-SITE.DWG

SHEET **C9.0** OF **21**



DESIGNED	CA/MA				
DRAWN	CA				
CHECKED	BL				
SYM		REVISION	DATE	BY	APP'D



PACE Engineers  
4500 Kruse Way, Suite 250  
Lake Oswego, OR 97035  
p. 503.597.3222  
www.paceengrs.com



CITY OF HAPPY VALLEY  
ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

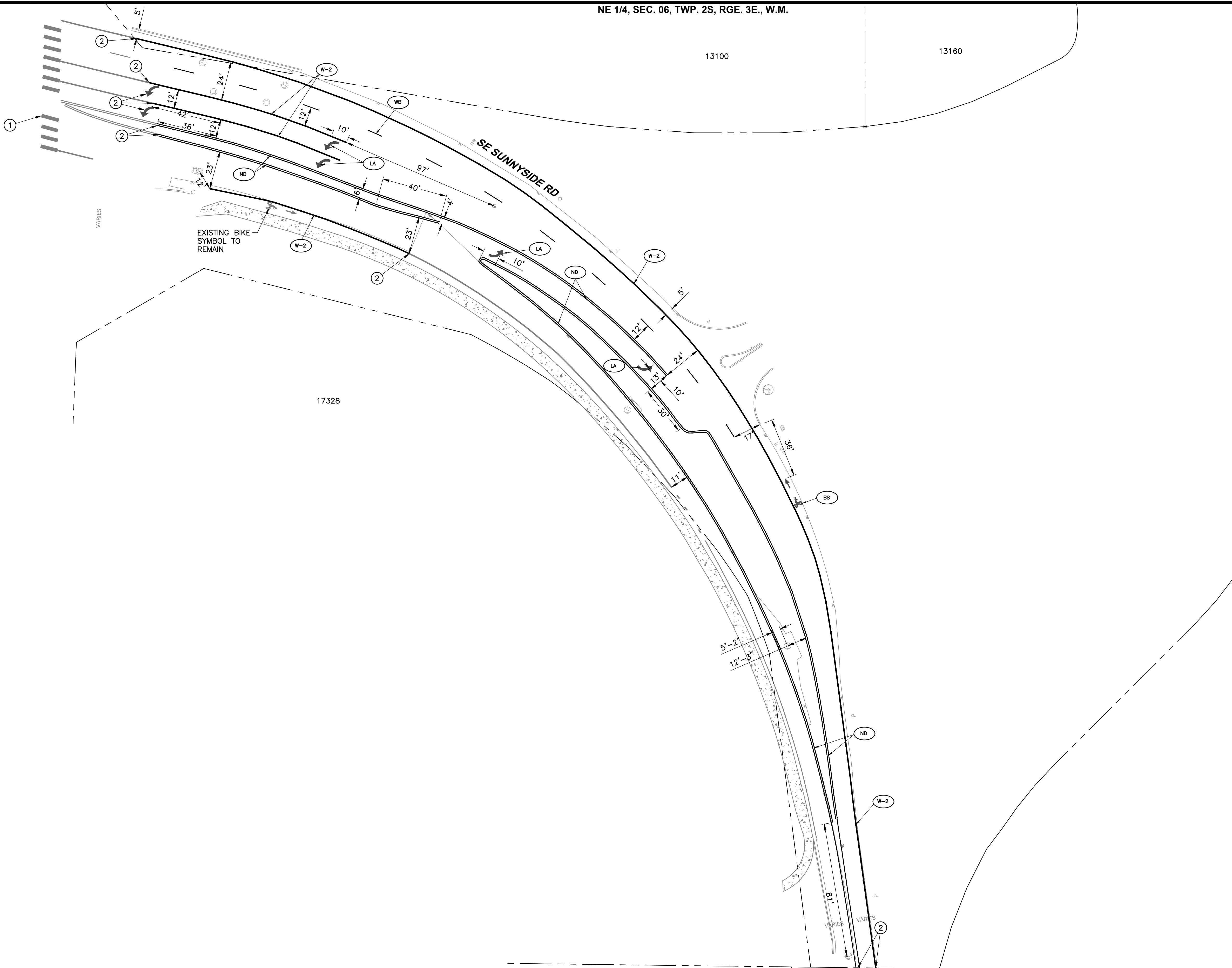
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DATE  
JUNE 2025  
SCALE  
AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE C  
SE SUNNYSIDE RD IMPROVEMENTS



NE 1/4, SEC. 06, TWP. 2S, RGE. 3E., W.M.



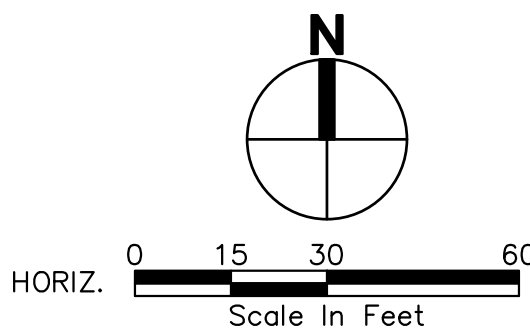
**GENERAL NOTES:**

- A. CITY TO CONFIRM ALL STRIPING LOCATIONS IN FIELD PRIOR TO APPLICATION.
- B. ALL STRIPING TO BE THERMOPLASTIC.

**# KEYED NOTES:**

1. EXISTING CROSSWALK TO REMAIN.
2. MATCH EXISTING STRIPING.

- ND 4" WIDE YELLOW DOUBLE NARROW NO PASS STRIP PER DETAIL TM500 ON SHEET C13.0.
- W-2 8" WIDE WHITE STRIPE PER DETAIL TM500 ON SHEET C13.0.
- LA LEFT TURN ARROW PER DETAIL TM501 ON SHEET C13.0.
- BS WHITE BIKE LANE STENCIL PER DETAIL TM503 ON SHEET C13.0.
- WB 4" WIDE WHITE STRIPE PER DETAIL TM500 ON SHEET C13.0.



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RENEWS: 12/31/2026

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PACE PROJECT NO.

250032

DWG. NAME: P250032-SCHC-SITE.DWG

SHEET C10.0 OF 21

FILE NAME: P:\V\0\250032-HAPPY VALLEY\2025 PRELIM\IMPROVEMENTS\CAD\ENGINEERING\SHEETS\PRELIM\250032-SCHC-SITE.DWG  
SAVE TIME: 5/19/2025 2:30:52 PM PLOT TIME: 5/20/2025 7:55 AM  
USER NAME: MARK ANDERSON

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DRAWN	CA					
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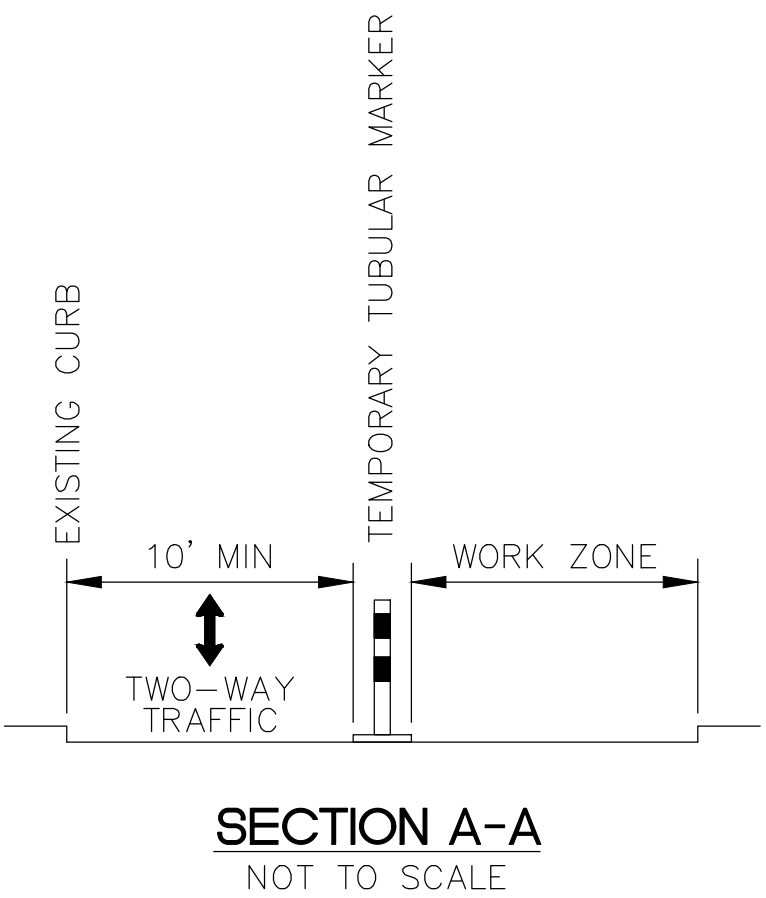
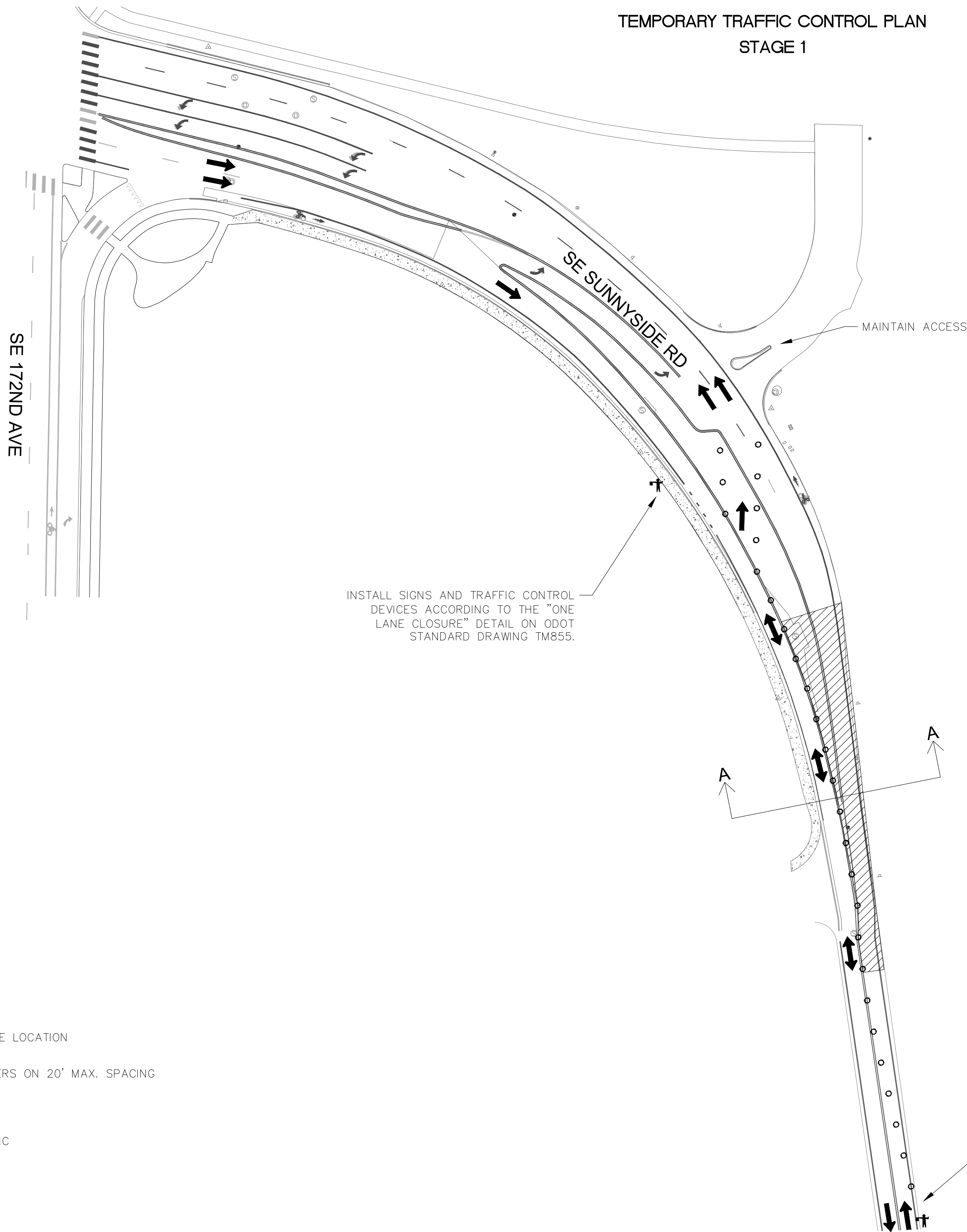
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HAPPY VALLEY, OR 97086

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SCALE  
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
SCHEDULE C  
SE SUNNYSIDE RD STRIPING PLAN

TEMPORARY TRAFFIC CONTROL PLAN  
STAGE 1







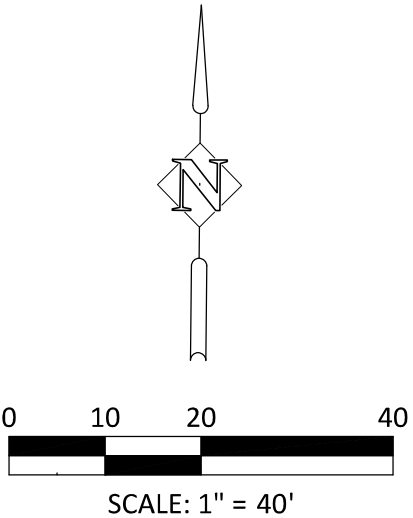
GENERAL NOTES

1. WORK DURING STAGE 1 TO BE COMPLETED DURING NIGHTTIME HOURS ONLY.
2. ALL SHIFTING TAPERS AND BUFFER LENGTHS SHALL FOLLOW DETAILS ON ODOT STANDARD DRAWING TM800.

ACCOMPANIED BY DWGS: TM800, TM821, TM822, AND TM855.

LEGEND

-  WORK ZONE/CLOSURE LOCATION
-  28" TUBULAR MARKERS ON 20' MAX. SPACING
-  FLAGGER
-  DIRECTION OF TRAFFIC



INSTALL SIGNS AND TRAFFIC CONTROL DEVICES ACCORDING TO THE "ONE LANE CLOSURE" DETAIL ON ODOT STANDARD DRAWING TM855

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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
TEMPORARY TRAFFIC CONTROL PLANS

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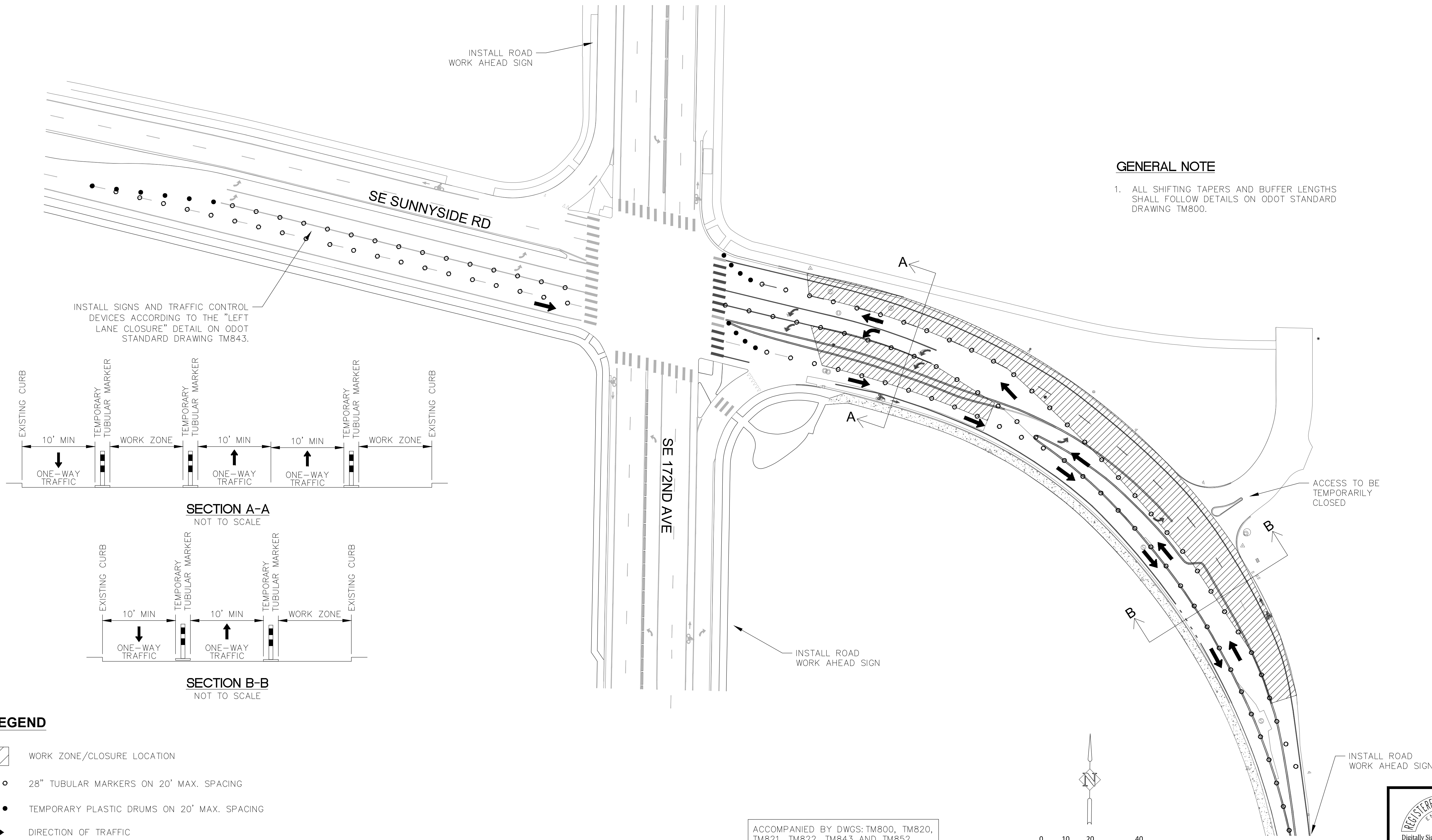
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PAGE PROJECT NO.  
250032  
DWG NAME: P07297-002-244\_TC-01.DWG  
SHEET TC-01 OF 21



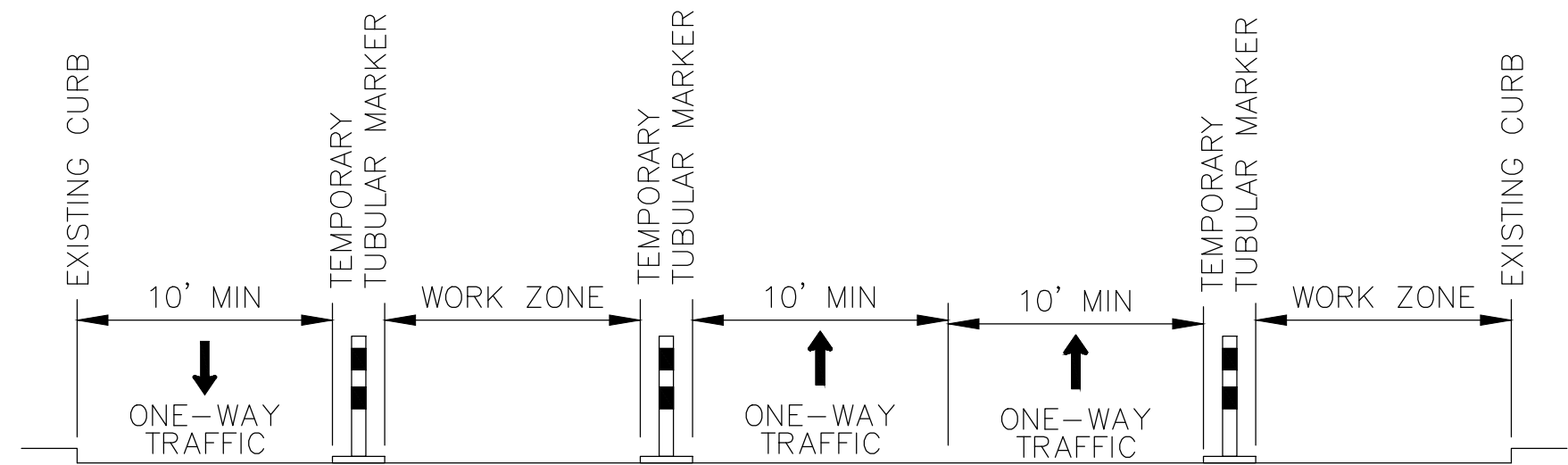
TEMPORARY TRAFFIC CONTROL PLAN  
STAGE 2

GENERAL NOTE

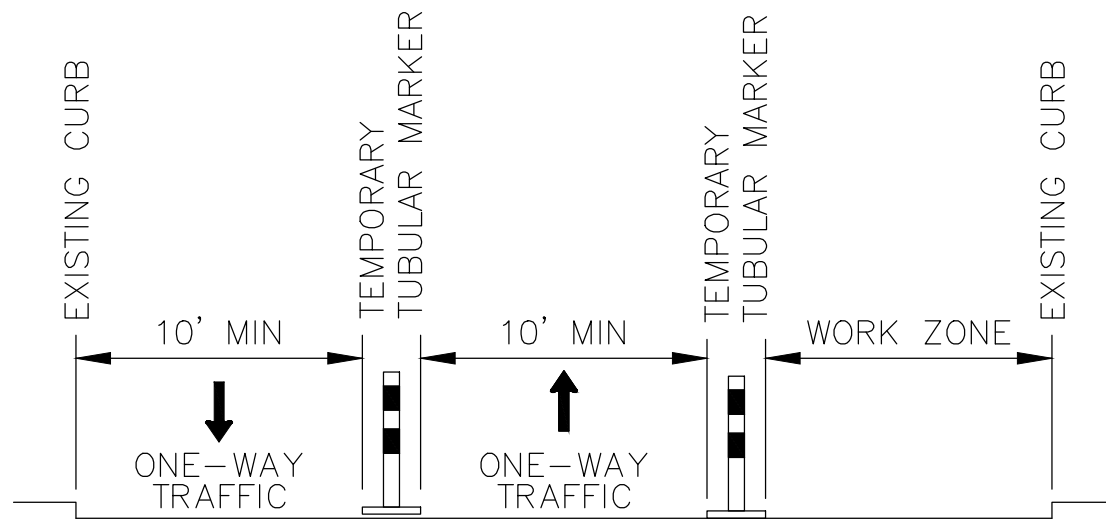
1. ALL SHIFTING TAPERS AND BUFFER LENGTHS SHALL FOLLOW DETAILS ON ODOT STANDARD DRAWING TM800.



INSTALL SIGNS AND TRAFFIC CONTROL DEVICES ACCORDING TO THE "LEFT LANE CLOSURE" DETAIL ON ODOT STANDARD DRAWING TM843.



SECTION A-A  
NOT TO SCALE

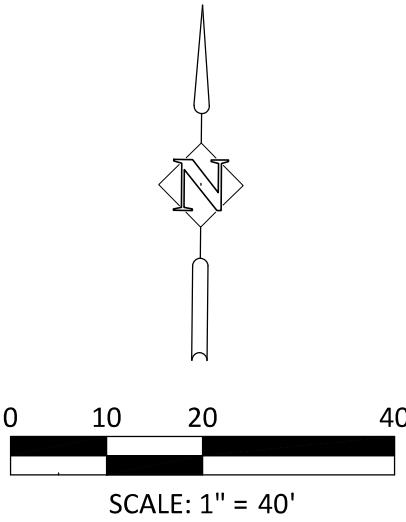


SECTION B-B  
NOT TO SCALE

LEGEND

- WORK ZONE/CLOSURE LOCATION
- 28" TUBULAR MARKERS ON 20' MAX. SPACING
- TEMPORARY PLASTIC DRUMS ON 20' MAX. SPACING
- DIRECTION OF TRAFFIC

ACCOMPANIED BY DWGS: TM800, TM820, TM821, TM822, TM843 AND TM852.



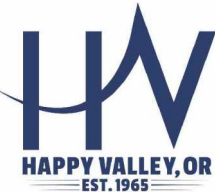
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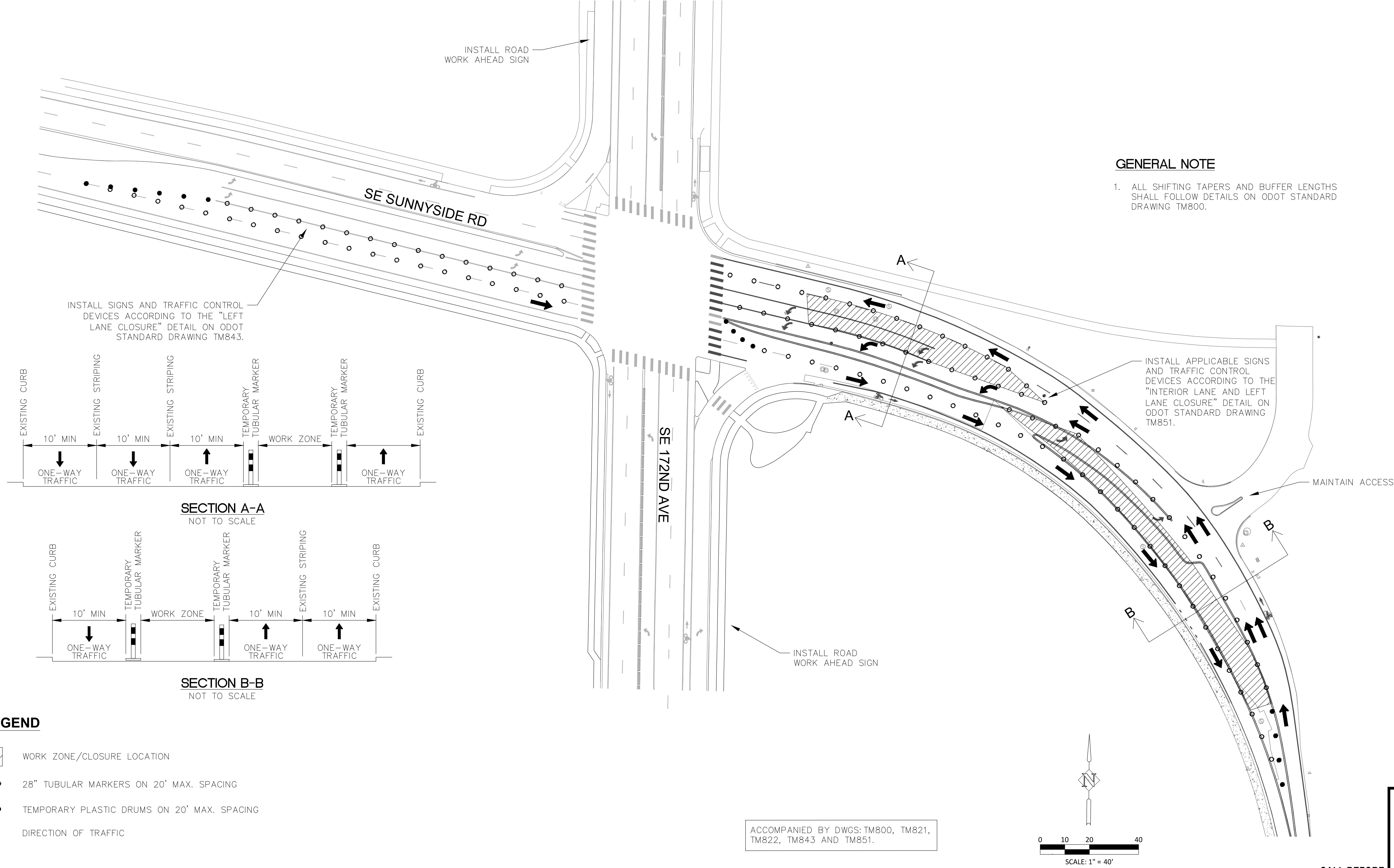
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
TEMPORARY TRAFFIC CONTROL PLANS

PAGE PROJECT NO.  
250032  
DWG NAME: P07297-002-244\_TC-02.DWG  
SHEET TC-02 OF 21



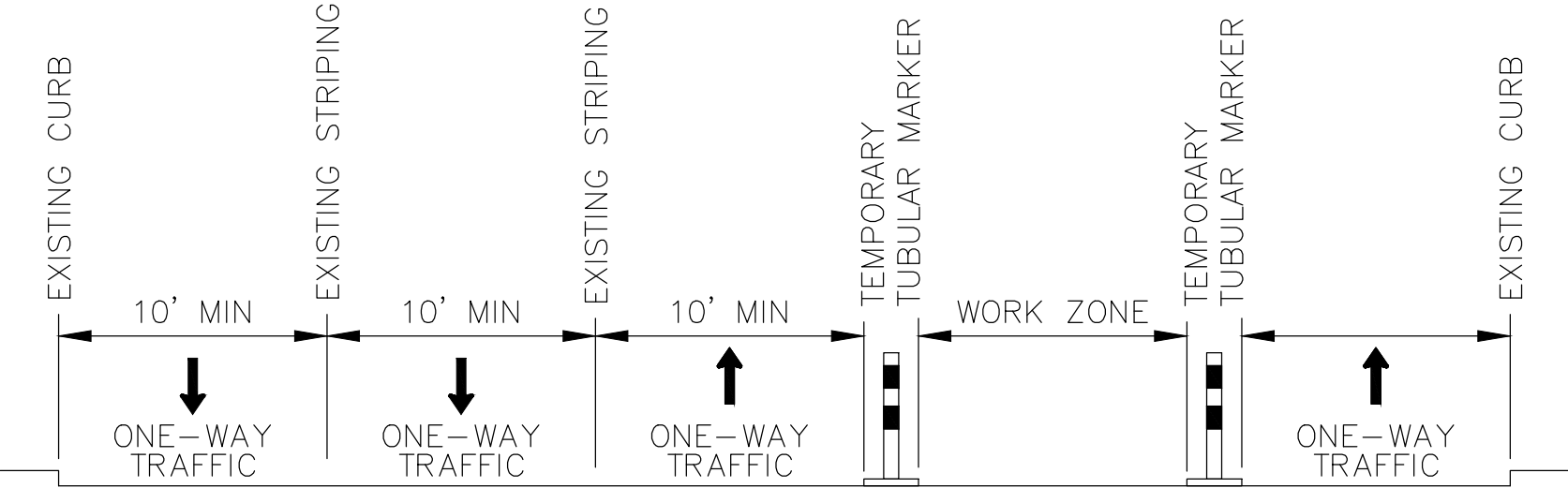
TEMPORARY TRAFFIC CONTROL PLAN  
STAGE 3



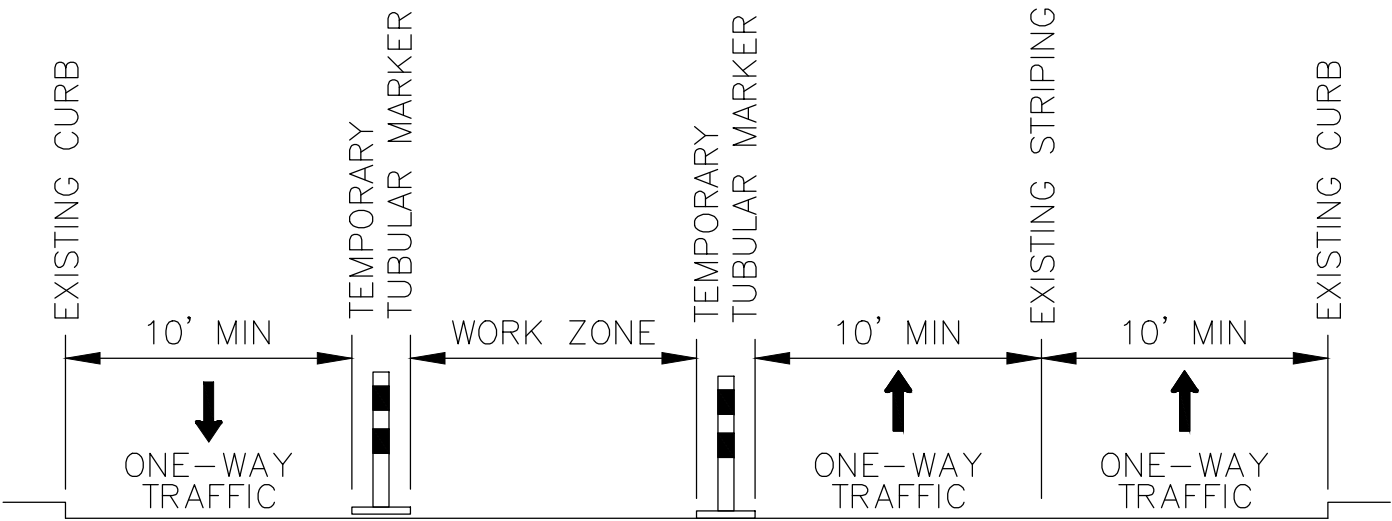
GENERAL NOTE

1. ALL SHIFTING TAPERS AND BUFFER LENGTHS SHALL FOLLOW DETAILS ON ODOT STANDARD DRAWING TM800.

SECTION A-A  
NOT TO SCALE



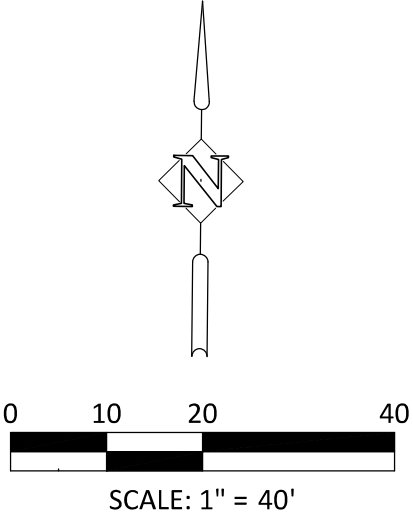
SECTION B-B  
NOT TO SCALE



LEGEND

- WORK ZONE/CLOSURE LOCATION
- 28" TUBULAR MARKERS ON 20' MAX. SPACING
- TEMPORARY PLASTIC DRUMS ON 20' MAX. SPACING
- DIRECTION OF TRAFFIC

ACCOMPANIED BY DWGS: TM800, TM821, TM822, TM843 AND TM851.



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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
TEMPORARY TRAFFIC CONTROL PLANS

PAGE PROJECT NO.  
250032  
DWG NAME: P07297-002-244\_TC-03.DWG  
SHEET TC-03 OF 21

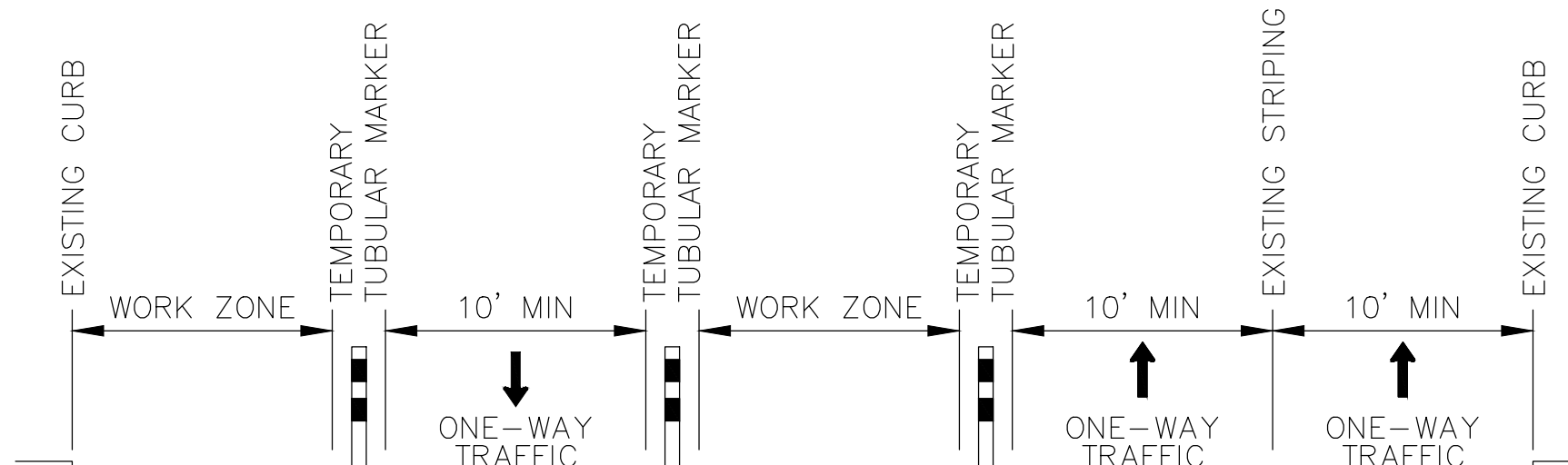


# TEMPORARY TRAFFIC CONTROL PLAN

INSTALL ROAD  
WORK AHEAD SIGN

SE SUNNYSIDE RD

INSTALL SIGNS AND TRAFFIC CONTROL  
DEVICES ACCORDING TO THE "RIGHT  
LANE CLOSURE" DETAIL ON ODOT  
STANDARD DRAWING TM843



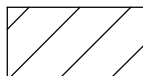
**SECTION A-A**  
NOT TO SCALE

### INSTALL ROAD WORK AHEAD SIGN

- MAINTAIN ACCESS

## INSTALL ROAD WORK AHEAD SIGN

## LEGEND



WORK ZONE/CLOSURE LOCATION

o o o 28" TUBULAR MARKERS ON 20' MAX. SPACING

• • • TEMPORARY PLASTIC DRUMS ON 20' MAX. SPACING

 DIRECTION OF TRAFFIC

ACCOMPANIED BY DWGS: TM800, TM821  
TM822, TM843 AND TM851.



**CALL BEFORE  
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**HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25**

**TEMPORARY TRAFFIC CONTROL PLANS**

PAGE PROJECT NO.  
**250032**  
DWG NAME: P07297-002-244\_TC-04.DWG  
SHEET **TC-04** OF **21**



FILE NAME: P:\V01\PA\250032 - HAPPY VALLEY\2025 PRELIM\DWG\IMPROVEMENT\CA\01 ENGINEERING\SHEETS\PRELIM\P250032-GNDWG  
SAVE TIME: 5/6/2025 7:28:22 AM PLOT TIME: 5/20/2025 7:25 AM  
USER NAME: MARK WALSH

CONSTRUCTION NOTES:

- 1
- ALL WORK AND MATERIAL SHALL CONFORM TO THESE PLANS AND THE APPLICABLE PROVISIONS OF THE CITY'S ENGINEERING DESIGN AND STANDARD DETAILS MANUAL (DESIGN MANUAL), LATEST EDITION, APWA/ODOT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- 2
- THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION PHASES.
- 3
- AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS:

a.

COPY OF THE CONTRACTOR'S CERTIFICATE OF INSURANCE

b.

EMERGENCY CONTACT NAME AND PHONE NUMBER.

c.

PROGRESS SCHEDULE.

d.

TRAFFIC CONTROL PLAN.

e.

LIST OF SUBCONTRACTORS.
- 4
- A COPY OF THE PERMIT WITH ALL ATTACHMENTS, A COPY OF THE APPROVED CONSTRUCTION PLANS, AND ALL AMENDMENTS SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. ALL WORK SHALL CONFORM TO THE PERMIT TERMS, CONDITIONS/PROVISIONS, APPROVED CONSTRUCTION PLANS, APPROVED PLAN AMENDMENTS, AND THESE GENERAL CONDITIONS. CHANGES TO ANY OF THE FORESAID MUST BE APPROVED BY THE PROJECT ENGINEER AND CITY, IN ADVANCE OF WORK PERFORMANCE.
- 5
- THE CONTRACTOR SHALL HAVE A CURRENT HAPPY VALLEY BUSINESS LICENSE BEFORE STARTING CONSTRUCTION.
- 6
- A SIGN SHALL BE POSTED CONSPICUOUSLY AT THE JOB SITE ENTRANCE PRIOR TO SITE CONSTRUCTION, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. USE 2-INCH HIGH BLACK LETTERS ON AN ORANGE BACKGROUND. THIS SIGN SHALL READ AS FOLLOWS:

6.1

"CONSTRUCTION SHALL BE LIMITED TO 7:00 AM TO 6:00 PM ON WEEKDAYS, AND 8:00 AM TO 5:00 PM ON SATURDAYS AND SUNDAYS. HOWEVER, SITE CLEARING, EARTH MOVING, INSTALLATION OR CONSTRUCTION OF UNDERGROUND UTILITIES, PAVING OF STREETS AND SIDEWALKS, FOUNDATION FRAMING AND POURING, AND STRUCTURAL FRAMING SHALL BE ENTIRELY PROHIBITED ON SUNDAYS. TO REPORT VIOLATIONS CALL 503-783-3800."
- 7
- ALL FENCING, ESC MEASURES, AND CONSTRUCTION GRAVEL ENTRANCES SHALL BE INSTALLED AND MAINTAINED BY THE DEVELOPER AND INSPECTED BY THE CITY OF HAPPY VALLEY PRIOR TO BEGINNING WORK ON THE SITE. CALL FOR INSPECTION 24 HOURS IN ADVANCE, 503-783-3800.
- 8
- MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION, FREE FROM OBSTRUCTIONS, HAZARDS, DEBRIS, AND TRASH AT ALL TIMES. A COPY OF THE CONTRACTOR CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.
- 9
- THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY PUBLIC ROADWAY IS STRICTLY PROHIBITED AND VIOLATION SHALL BE CAUSE FOR IMMEDIATE SUSPENSION OF THE PERMIT. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER IMMEDIATE CLEAN UP AND STOPPAGE OF WORK TO ACCOMPLISH CLEAN-UP.
- 10
- DUST SHALL BE CONTROLLED WITHIN THE DEVELOPMENT DURING CONSTRUCTION AND SHALL NOT BE PERMITTED TO DRIFT ONTO ADJACENT PROPERTIES.
- 11
- CONTRACTOR SHALL MONITOR THE HAULING OF DEBRIS TO ENSURE THAT ALL SPILLAGE FROM TRUCKS IS PROMPTLY AND COMPLETELY REMOVED AND CLEANED UP.
- 12
- THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), "OREGON SUPPLEMENTS", AND CITY REQUIREMENTS. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN LOCAL ACCESS FOR OWNERS NEAR THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE A PROJECT-SPECIFIC TRAFFIC CONTROL PLAN, APPROVED BY THE CITY, AND AVAILABLE ON THE PROJECT SITE.
- 13
- THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TIMELY NOTIFICATION OF TRAFFIC FLOW DISRUPTIONS TO AREA-WIDE EMERGENCY SERVICES AND THE SCHOOL DISTRICT. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- 14
- TRAFFIC CONTROL DEVICES, FLAG PERSONS, ETC., SHALL BE IN PLACE PRIOR TO INITIATION OF CONSTRUCTION WORK AND SHALL BE EFFECTIVELY MAINTAINED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO ANY WORK WITHIN EXISTING RIGHT-OF-WAY.
- 15
- PUBLIC ROADWAYS SHALL NOT BE CLOSED TO TRAFFIC, AT ANY TIME, WITHOUT HAVING FIRST OBTAINED A STREET CLOSURE PERMIT FROM THE CITY.
- 16
- COMPACTION TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE THE CITY WITH COPIES OF THE TEST RESULTS ON BASE ROCK AND ASPHALT. SCHEDULE PROOF ROLLS WITH THE CITY AT LEAST 48 HOURS IN ADVANCE.
- 17
- CONTRACTOR MUST VERIFY ALL EXISTING UTILITIES FOR BOTH VERTICAL ELEVATION AND HORIZONTAL LOCATION PRIOR TO START OF WORK (POTHOLE BEFORE DIGGING IF NECESSARY). CONTRACTOR SHALL COORDINATE THE WORK WITH APPLICABLE AGENCIES.
- 18
- TRENCHES WITHIN RIGHTS-OF-WAY, PAVEMENT, OR CONCRETE AREAS SHALL BE BACKFILLED WITH APPROVED CRUSHED ROCK (DRAWING NO. 205) OR CDF (DRAWING NO. 210), AND AS SPECIFIED ON THESE PLANS. TRENCHES OUTSIDE OF THE PAVED OR CONCRETE AREAS MAY BE BACKFILLED WITH NATIVE MATERIAL PER DRAWING NO. 205
- 19
- THE CONTRACTOR SHALL MAINTAIN BENCHMARKS, PROPERTY CORNERS, AND MONUMENTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES, THEY SHALL BE REPLACED IN ACCORDANCE WITH ORS 209 BY EMPLOYING A PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.
- 20
- THE CONTRACTOR SHALL NOTIFY THE CITY FORTY-EIGHT (48) HOURS PRIOR TO ANY PROOF ROLL, CONCRETE FORM INSPECTION AND PAVING.
- 21
- PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED. GRASS, SHRUBS, FLOWERS, BARK DUST, EXISTING SIGNS, PAVEMENT MARKINGS, MAILBOXES, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED OR REPLACED, WITH LIKE KIND AND MATERIAL.

- 22
- EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- 23
- TRENCHES WILL NOT BE ALLOWED TO REMAIN OPEN OVERNIGHT. A TEMPORARY HARD SURFACE PATCH (HOT MIX BASE PAVING) OR STEEL PLATES SECURED WITH PINS AND COLD MIX RAMPS SHALL BE PLACED ON TRENCHES WITHIN EXISTING ROADWAYS AT THE END OF EACH DAY'S WORK. NO TRENCH, ON-SITE OR OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM THE PROSECUTION OF THE WORK.
- 24
- WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MAY BE NECESSARY, IN THE CITY'S OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZED BY THE PERMIT. CORRECTIVE WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 25
- POWER, TELEPHONE, GAS, AND CABLE TELEVISION TRENCHING AND CONDUITS ARE TO BE INSTALLED PER UTILITY COMPANY REQUIREMENTS. VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION.
- 26
- UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL UTILITY COMPANY HAS APPROVED THE CUT OR DISRUPTION.
- 27
- ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS, NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN-ORIGINAL CONDITION.
- 28
- NOTIFY THE UTILITY COMPANY IMMEDIATELY OF ALL UTILITIES EXPOSED. UTILITIES OR INTERFERING PORTION OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK.
- 29
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE NEW PUBLIC RIGHT-OF-WAY, UNDER THE NEW ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS.
- 30
- IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES, AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE.
- 31
- SAWCUT STRAIGHT MATCH LINES WHERE EXISTING PAVEMENT MEETS NEW PAVEMENT. SAND AND SEAL JOINT (TYPICAL).
- 32
- CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS.
- 33
- ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING.
- 34
- WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PORTLAND CEMENT CONCRETE CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAWCUT AND REMOVED AT A TOOL JOINT UNLESS OTHERWISE AUTHORIZED BY THE OWNER'S REPRESENTATIVE. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.
- 35
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. ALL REPAIRS SHALL USE NEW MATERIAL. REPAIRS SHALL RESTORE THE DAMAGED ITEM TO THE PRE-EXISTING CONDITION OR BETTER. SUCH REPAIRS SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.
- 36
- CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
- 37
- SETTLEMENT OR CRACKING OF FINISHED SURFACES WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A FAILURE OF THE SUBGRADE, AND REPAIRED IN A MANNER ACCEPTABLE TO AND AT NO COST TO THE CITY OR DEVELOPER.
- 38
- PRIOR TO FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THIS CONTRACT.

UTILITY CONTACTS

POWER

PORTLAND GENERAL ELECTRIC  
ATTN: STACY FERGUSON (PRIMARY POWER)  
PH: 503-669-5219  
ATTN: JEFF WIESE (STREET LIGHTS)  
PH: 503-742-8363  
1705 EAST BURNSIDE STREET  
GRESHAM, OR 97030

CABLE

COMCAST  
ATTN: ROB BALEY  
PH (CELL): 503-348-5610  
PH (OFFICE): 503-818-0485  
[ROBERT\\_BALEY@COMCAST.COM](mailto:ROBERT_BALEY@COMCAST.COM)

TELEPHONE

FRONTIER  
ATTN: JAMES ANDVIK  
150 NW 20TH STREET  
P.O. BOX 31  
GRESHAM, OR 97030  
PH : 503-667-9780  
[GRESHAMENGINEERING@FTR.COM](mailto:GRESHAMENGINEERING@FTR.COM)

GAS

NW NATURAL  
ATTN: BRIAN KELLEY  
220 NW 2ND AVENUE  
PORTLAND, OR 97209  
PH: 503-220-2427  
[NCPROJ@NWNATURAL.COM](mailto:NCPROJ@NWNATURAL.COM)

WATER

SUNRISE WATER AUTHORITY  
ATTN: TIM JANNSEN  
10602 SW 129TH AVENUE  
HAPPY VALLEY, OR 97086  
PH: 503-761-0220  
[TJANNSEN@SUNRISEWATER.COM](mailto:TJANNSEN@SUNRISEWATER.COM)

SOLID WASTE COLLECTION

HOODVIEW DISPOSAL  
PH: 503-668-8300

SUNSET GARBAGE  
PH: 503-774-4122

WASTE MANAGEMENT  
PH: 800-808-5901

DESIGNED	CA/MA								
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CHECKED	BL								
		SYM		REVISION		DATE	BY	APP'D	



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4500 Kruse Way, Suite 250  
Lake Oswego, OR 97035  
p. 503.597.3222  
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CITY OF HAPPY VALLEY  
ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

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DATE  
JUNE 2025  
SCALE  
AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25

GENERAL CONSTRUCTION NOTES

CALL BEFORE  
YOU DIG 811  
UNDERGROUND SERVICE (USA)

BID SET



RENEWALS: 12/31/2026  
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PAGE PROJECT NO.  
250032  
DWG NAME: P250032-GN.DWG  
SHEET C11.0 OF 21



FILE NAME: P:\NOI\2025\250032- HV-DET.DWG  
DATE: 5/20/2025 7:49:43 AM  
USER NAME: WJH

PAVEMENT SECTION CHART COMPONENT THICKNESS (INCHES)					
STREET FUNCTIONAL CLASSIFICATION	LEVEL	TOP LIFT HMAAC THICKNESS	BASE LIFT HMAAC THICKNESS	LEVELING COURSE THICKNESS	BASE ROCK COURSE THICKNESS
LOCAL	2	2"	ONE LIFT 2"	2"	10"
LOCAL COMMERCIAL/ INDUSTRIAL	3	2-1/2"	ONE LIFT 2-1/2"	3"	12"
NEIGHBORHOOD	2	2"	ONE LIFT 2"	2"	10"
COLLECTOR	3	2-1/2"	ONE LIFT 2-1/2"	3"	12"
ARTERIAL	3	2-1/2"	TWO LIFTS 2-1/2"	3"	12"
PRIVATE	2	3"	NA	2"	8"

NOTES:

- MATERIALS AND PLACEMENT OF THE ASPHALTIC CONCRETE PAVEMENT (ACP) SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 00744.40 OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY THE CITY AND/OR APPROVED BY CITY ENGINEER.
- ACP SHALL BE COMPACTED TO A MINIMUM OF 91% MAMD FOR BASE LIFT AND 92% MAMD FOR TOP LIFT.
- THE TOP LIFT OF ACP SHALL BE PLACED PRIOR TO CITY FINAL ACCEPTANCE OF PUBLIC INFRASTRUCTURE IMPROVEMENTS.
- THE FINAL LIFT OF ACP SHALL NOT BE PLACED UNTIL ALL UTILITIES WITHIN THE ROADWAY HAVE BEEN INSTALLED AND ACCEPTED.
- CRUSHED AGGREGATE USED FOR BASE ROCK AND LEVELING COURSE SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 02630 - BASE AGGREGATE, OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. MAXIMUM MOISTURE DENSITY BY AASHTO T-180 ASTM D-1557 AS SPECIFIED.
- 1/2" DENSE ACP MAY BE USED IN-LIEU-OF 3/4" DENSE ACP FOR THE BASE LIFT OF ASPHALT.
- PAVEMENT DESIGN SHALL BE BASED ON SITE SPECIFIC CONDITIONS. THE ABOVE PAVEMENT SECTIONS REPRESENT THE MINIMUM THICKNESS AFTER COMPACTION.
- THE ENGINEER OF RECORD IS RESPONSIBLE FOR DESIGNING AND CONSTRUCTING AN ADEQUATE STRUCTURAL SECTION.
- DEVELOPER/CONTRACTOR IS TO PROVIDE AC TESTING FOR BOTH LIFTS OF AC PER ODOT SPECIFICATION 00744. COMPACTION TESTING SHALL BE DONE EVERY 100 TO 200 LINEAL FEET OF PAVEMENT.
- FOR IMPROVEMENTS TO EXISTING STREETS, FINAL SAWCUT LINES AND RESTORATION LIMITS SHALL BE DETERMINED BY CITY ENGINEERING PRIOR TO COMMENCEMENT OF WORK.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 160

CITY ENGINEER  
SALLY CURRAN, P.E.

DATE: 04/22/2024

REVISED BY: KMA

PAVEMENT SECTIONS

160 PAVEMENT SECTIONS.DWG PRINTED April 22, 2024

NOTES:

- CONCRETE SHALL BE COMMERCIAL MIX WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- CONSTRUCT EXPANSION JOINTS AT 200' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONTRACTION JOINTS SHALL HAVE:  
A. SPACING OF NOT MORE THAN 15 FEET.  
B. DEPTH OF JOINT OF AT LEAST 1 1/2".
- BASE ROCK SHALL BE 3/4"-0", COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
- FOR CURB AND GUTTER REQUIREMENTS ON SHED AND SUPERELEVATED ROAD SECTIONS, REVERSE THE GUTTER PAN SLOPE SO THAT THERE IS A 1" DROP FROM FACE OF CURB TO THE EDGE OF THE GUTTER PAN.
- AT CATCH BASIN INLETS TRANSITION GUTTER LINE TO MATCH CATCH BASIN OVER A 3' DISTANCE.
- WEEP HOLES ARE NOT ALLOWED THROUGH THE CURB.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 230

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

MONOLITHIC CURB AND GUTTER

NOTES:

- VERTICAL CURB MAY BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
- CONCRETE SHALL BE COMMERCIAL MIX WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- CONSTRUCT EXPANSION JOINTS AT 200' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONTRACTION JOINTS SHALL HAVE:  
A. SPACING OF NOT MORE THAN 15 FEET.  
B. DEPTH OF JOINT OF AT LEAST 1 1/2".
- BASE ROCK SHALL BE 3/4"-0", COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
- WEEP HOLES ARE NOT ALLOWED THROUGH THE CURB.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 235

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

VERTICAL CURB

NOTES:

- CONCRETE SHALL BE A COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- SIDEWALK PANELS TO BE SQUARE (5' LONG x 5' WIDE TYP.).
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
- SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 6" IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS A PORTION OF A DRIVEWAY. OTHERWISE SIDEWALK SHALL HAVE A MINIMUM THICKNESS OF 4".
- CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED.
- WIDTH OF PLANTER STRIP IS MEASURED FROM FACE OF CURB. WIDTH OF A CURB-TIGHT SIDEWALK IS MEASURED FROM BACK OF CURB.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 250

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

SIDEWALK

NOTES:

- CURB JOINT SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS ALONG BACK OF CURB.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONCRETE SHALL HAVE A BROOM FINISH AND EDGE ALL JOINTS.
- IF DURING CURB REMOVAL THE GUTTER BECOMES SEPERATED FROM THE STREET SURFACE IN EXCESS OF 1/8", THEN THE GUTTER SHALL ALSO BE REMOVED AND REPLACED.
- SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PRE-APPROVED BY THE CITY ENGINEER.
- EDGE OF DRIVEWAY WINGS MUST BE A MINIMUM OF 10' FROM ANY FIRE HYDRANTS.

DRIVEWAY WIDTH	CONCRETE THICKNESS	CONCRETE TYPE
< 24'	6"	COMMERCIAL MIX W/A 28-DAY COMPRESSIVE STRENGTH OF 3300psi. SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
≥ 24'	7"	

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 275

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

COMMERCIAL DRIVEWAY

NOTES:

- SIDEWALK RAMP SHALL MEET CURRENT ADA STANDARDS. CONSTRUCT ALL RAMPS PERPENDICULAR TO THE CURB. SEE DWG NO. 245.
- DETECTABLE WARNING SHALL BE TRUNCATED DOME TYPE, 24" LONG IN DIRECTION OF TRAVEL AND FULL WIDTH OF RAMP, WITH DOMES ALIGNED ON A SQUARE GRID WITH ITS GRIDLINES PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE RAMP. COLOR OF DETECTABLE WARNING SURFACE SHALL BE YELLOW AND CONTRAST FROM ADJACENT SURFACE.
- CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN FRONT OF RAMP.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 280

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

COMMERICAL DRIVEWAY WITH CURBS

NOTES:

- PROJECT ENGINEER SHALL USE THIS DRAWING AS A GUIDE FOR DESIGNING RAMPS AND SHALL PREPARE A SITE SPECIFIC DRAWING FOR EACH RAMP.
- SIDEWALK RAMP SHALL MEET CURRENT ADA STANDARDS. CONSTRUCT ALL RAMPS PERPENDICULAR TO THE CURB. CITY TO INSPECT FORMS PRIOR TO POUR.
- DETECTABLE WARNING SHALL BE TRUNCATED DOME TYPE, 24" LONG IN DIRECTION OF TRAVEL AND FULL WIDTH OF RAMP, WITH DOMES ALIGNED ON A SQUARE GRID WITH ITS GRIDLINES PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE RAMP. COLOR OF DETECTABLE WARNING SURFACE SHALL BE YELLOW AND CONTRAST FROM ADJACENT SURFACE.
- CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN FRONT OF RAMP.
- CONCRETE SHALL BE 4" THICK LAYER OF COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440, OVER 2" LAYER OF 3/4"-0" BASE ROCK COMPACTED TO 95% MAX. DENSITY PER AASHTO T-180.
- SCORE CONCRETE AT GRADE CHANGES, SURFACE TEXTURE CHANGES AND AT ALL OTHER POINTS SHOWN.
- CONCRETE SURFACE SHALL HAVE BROOM FINISH, AND EDGE ALL JOINTS.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 245

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

CURB RAMPS

GENERAL NOTES:

- SIGNS SHALL BE AFFIXED TO SIGN POSTS USING ALUMINUM DRIVE RIVETS THAT LAY FLUSH WITH SIGN PANEL AFTER INSTALLATION.
- NO PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE DIRECTION OF TRAFFIC.
- A 2"x2" GA GALVANIZED "UNISTRUT TELESAR" OR 12 GA PERFORATED POSTS OR APPROVED EQUIVALENT SHALL BE USED. SIGN COMBINATION AND MINIMUM SIGN MOUNTING HEIGHT SHALL DETERMINE POST LENGTH.
- SEE ADDITIONAL SIGNAGE NOTES AND REQUIREMENTS ON DWG NO. 305.

CITY OF HAPPY VALLEY  
ENGINEERING DIVISION  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

DWG NO: 300

CITY ENGINEER  
CAROL EARLE, P.E.

DATE: 4/1/2019

REVISED BY: PCB/JHH

STREET SIGNING

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PACE Engineers  
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Lake Oswego, OR 97035  
p. 503.597.3222  
www.paceengrs.com



CITY OF HAPPY VALLEY  
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JUNE 2025  
SCALE  
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
HAPPY VALLEY STANDARD DETAILS

BID SET

PACE PROJECT NO.  
250032  
DWG NAME: P250032-HV-DET.DWG  
SHEET C12.0 OF 21



RENEWS: 12/31/2026

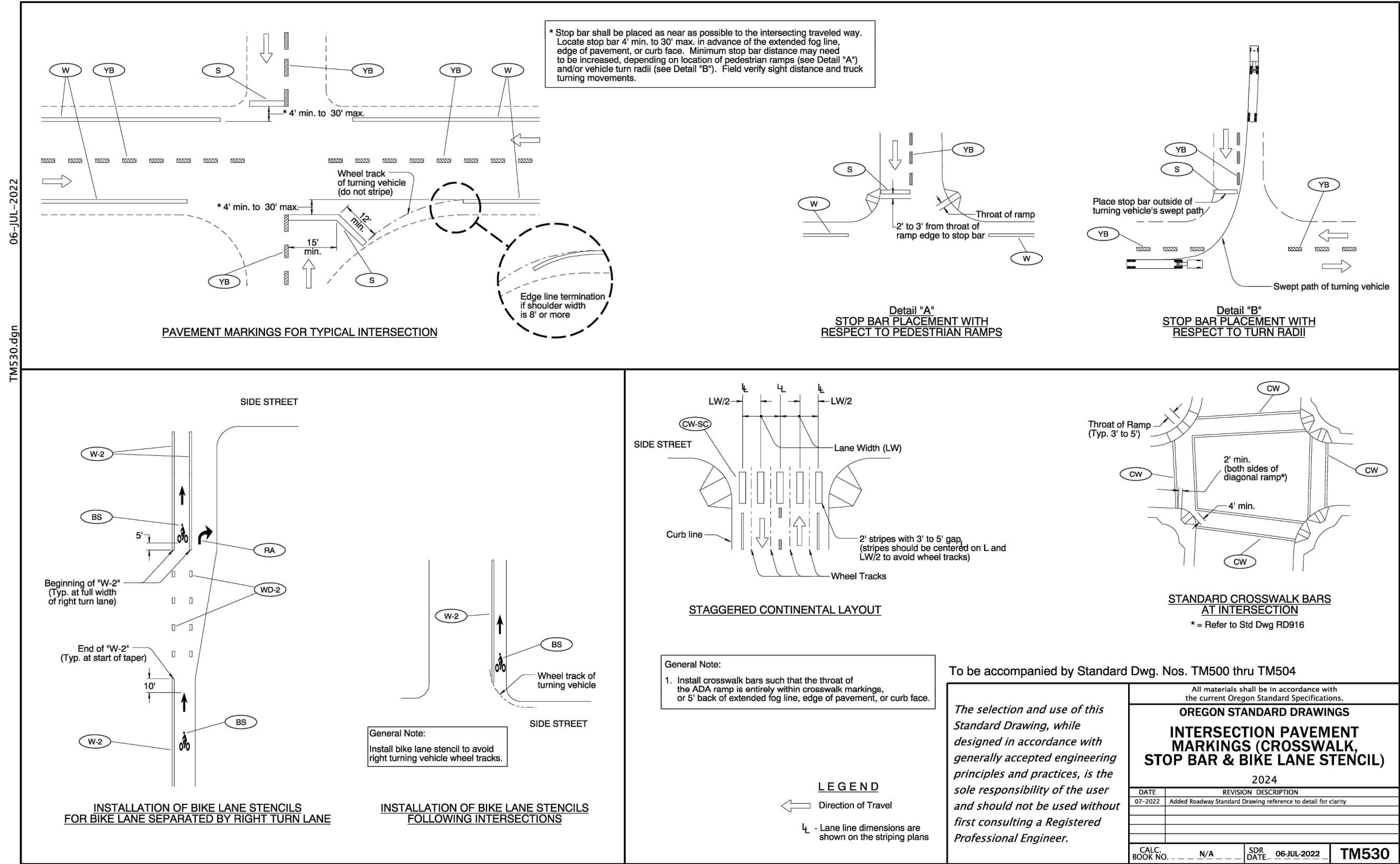
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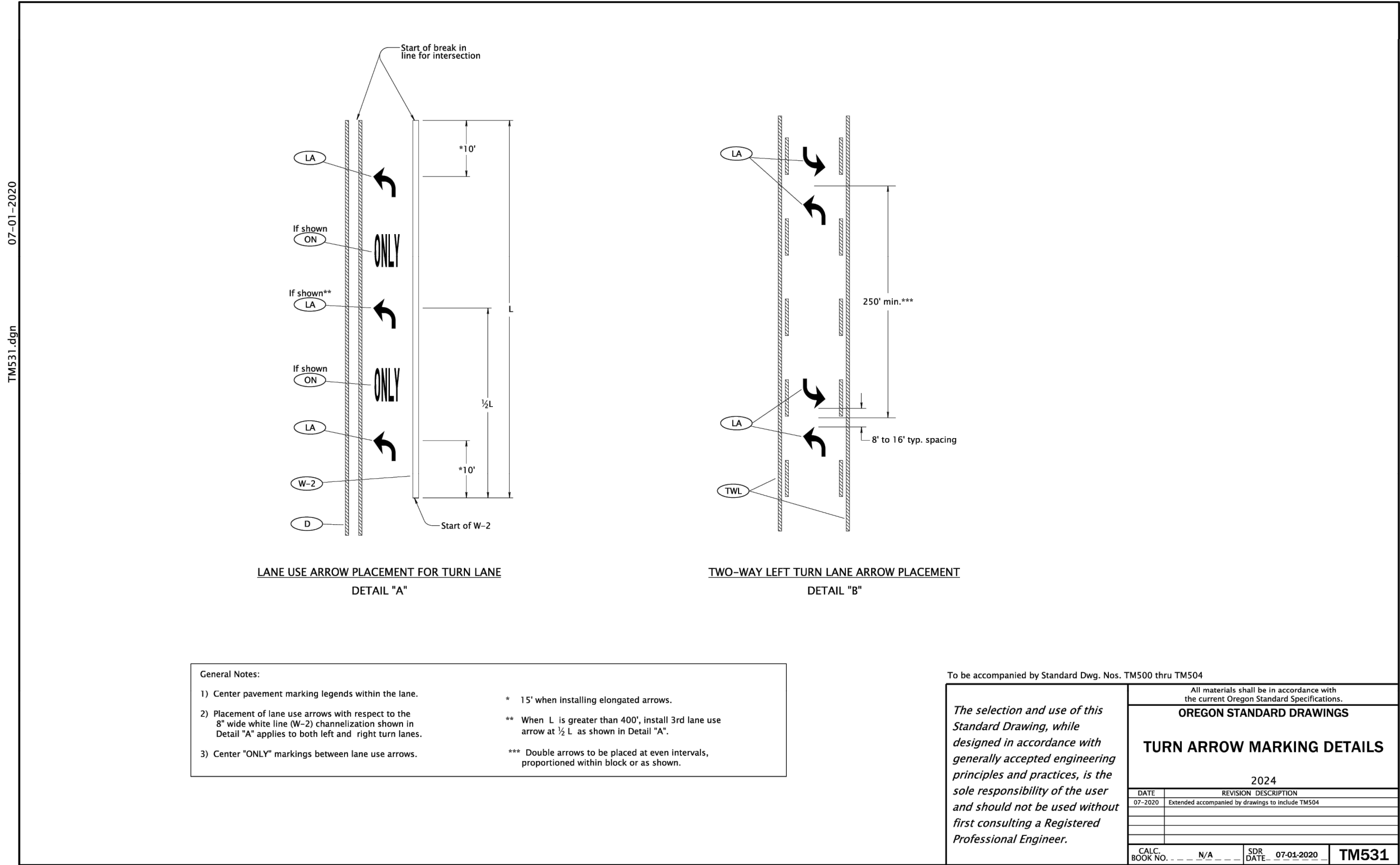




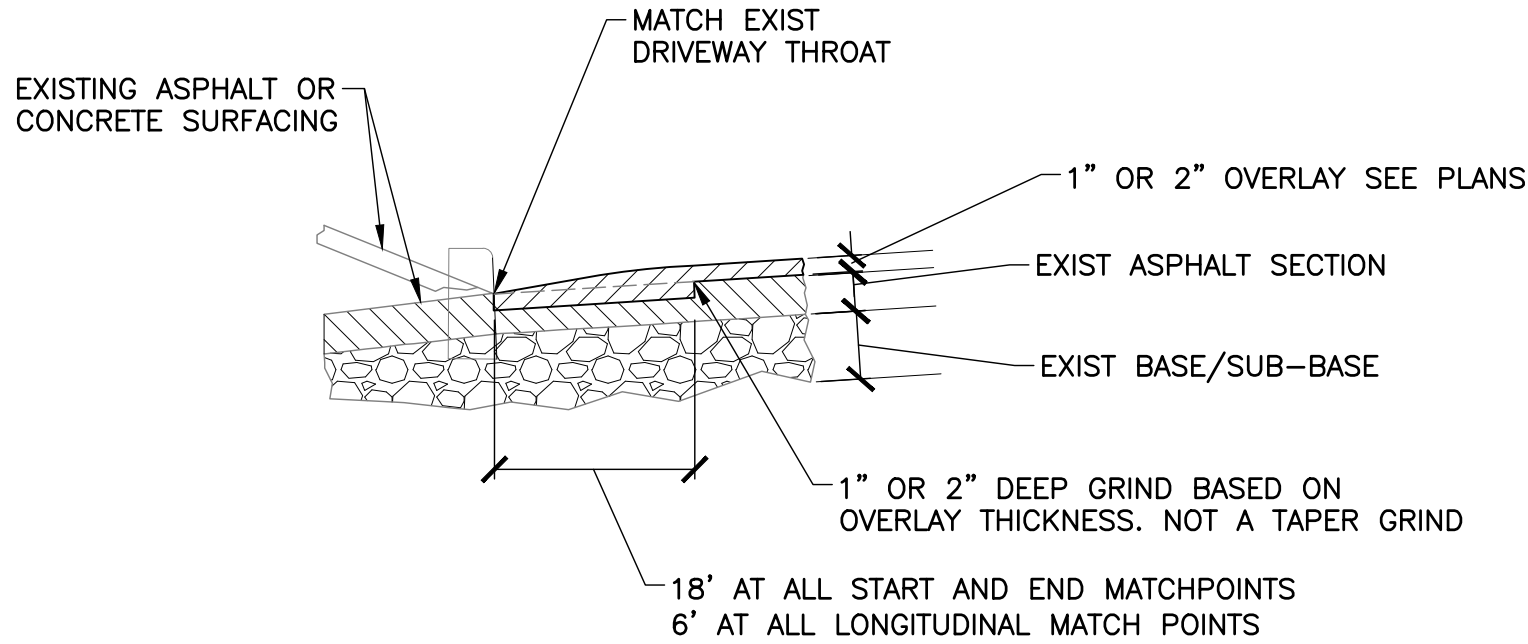
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USER NAME: MARK TMS30



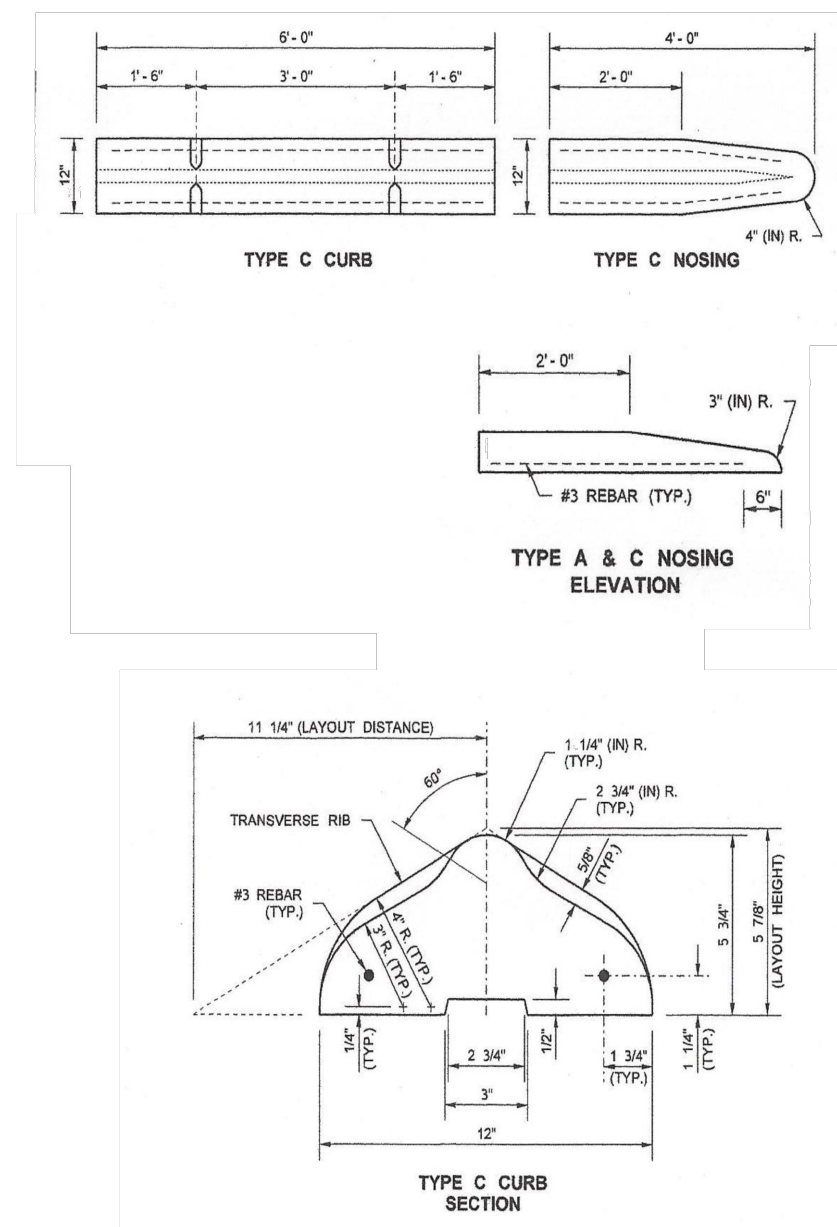
Effective Date: June 1, 2025 - November 30, 2025



Effective Date: June 1, 2025 - November 30, 2025



1 STANDARD BUTT JOINT AT GRADE  
C14.0 NTS



2 PRECAST CONCRETE CURB  
C14.0 NTS

DESIGNED	CA/MA					
DRAWN	CA					
CHECKED	BL					
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25

ODOT STANDARD CHANNELIZATION DETAILS

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PAGE PROJECT NO.  
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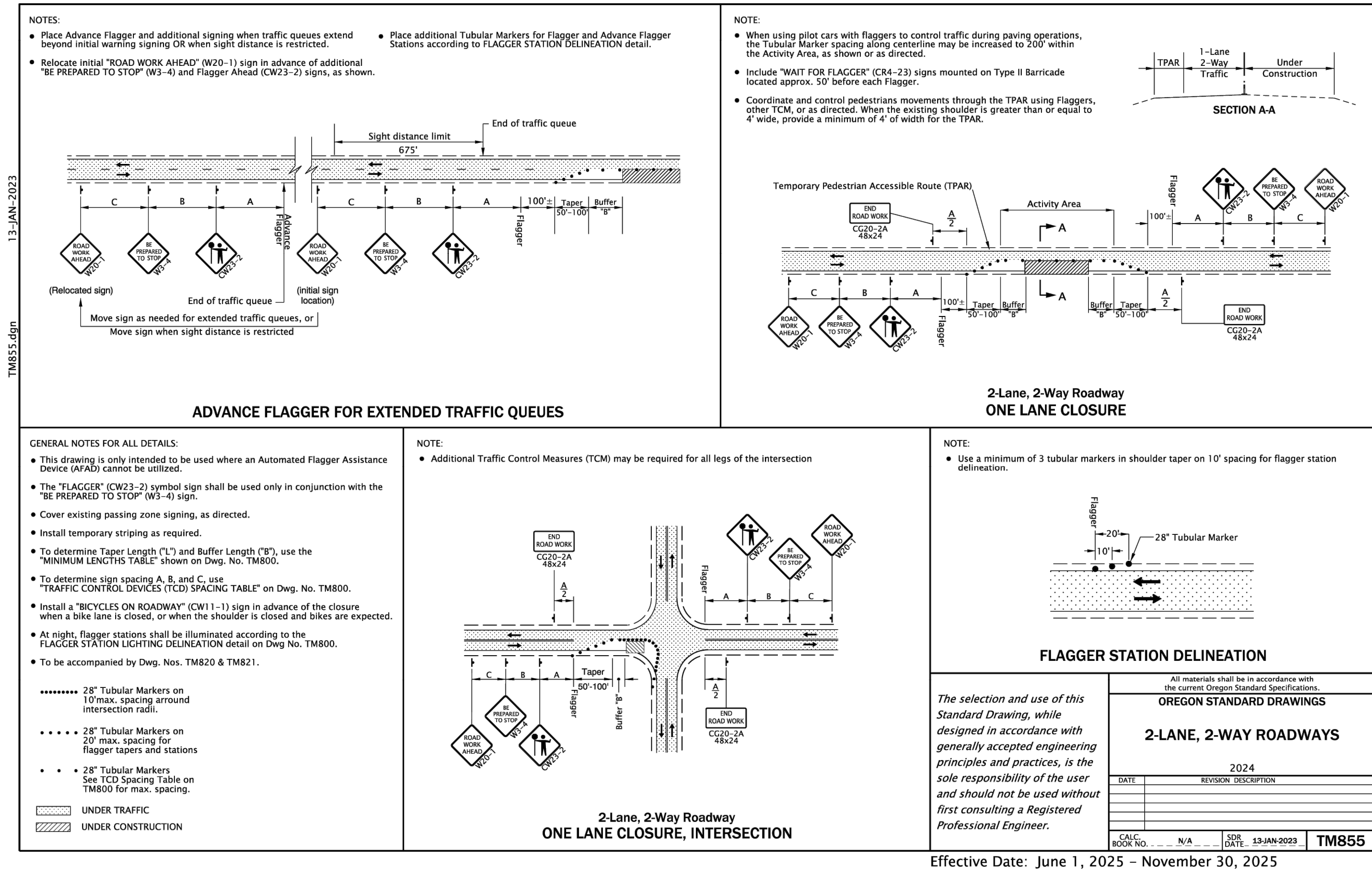
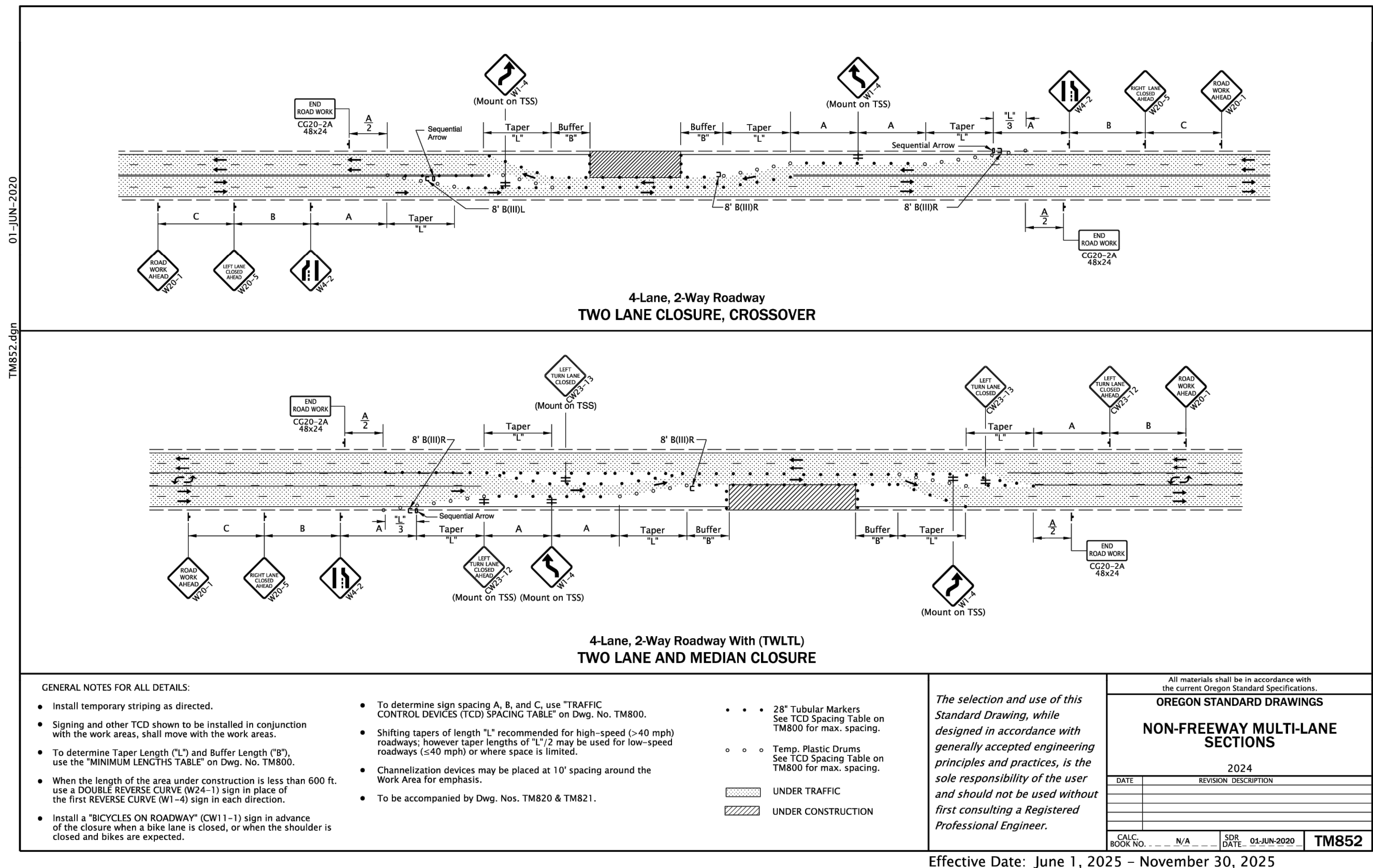
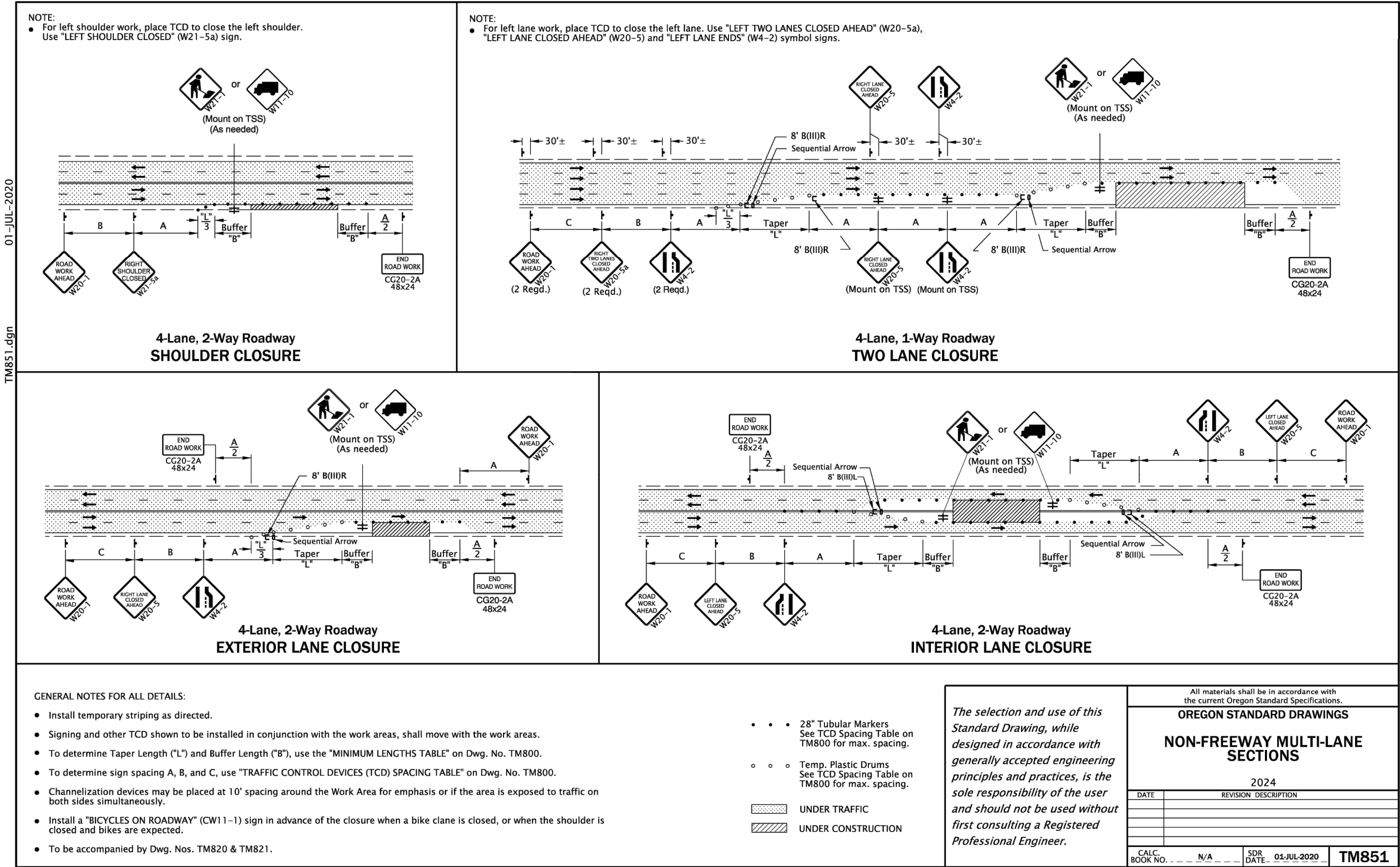
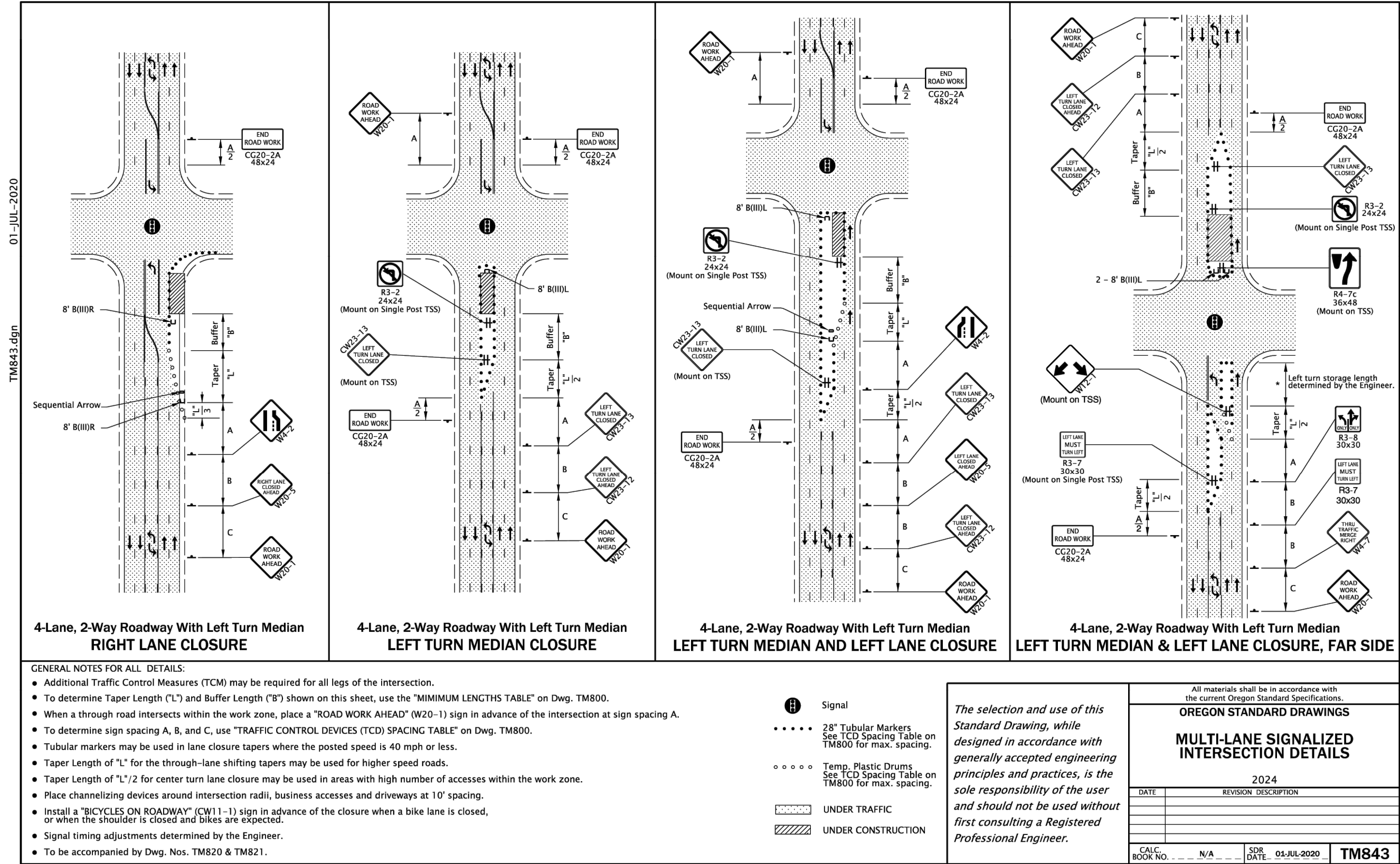
SHEET C14.0 OF 21







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SAVE TIME: 5/30/2025 7:40:44 AM  
USER NAME: MARK WISLAND



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CITY OF HAPPY VALLEY  
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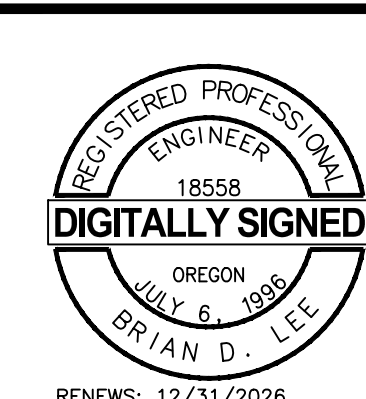
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HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25

ODOT STANDARD TRAFFIC CONTROL DETAILS

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PACE PROJECT NO.  
250032

DWG NAME: P250032-TCP-DET.DWG

SHEET C16.0 OF 21



FILE NAME: P:\V01\PAV\250032 - HAPPY VALLEY 2025 STREET IMPROVEMENTS\CAD\ENGINEERING\SHEETS\PRELIM\250032--TESC--DET.DWG  
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USER: MARK WISLAND

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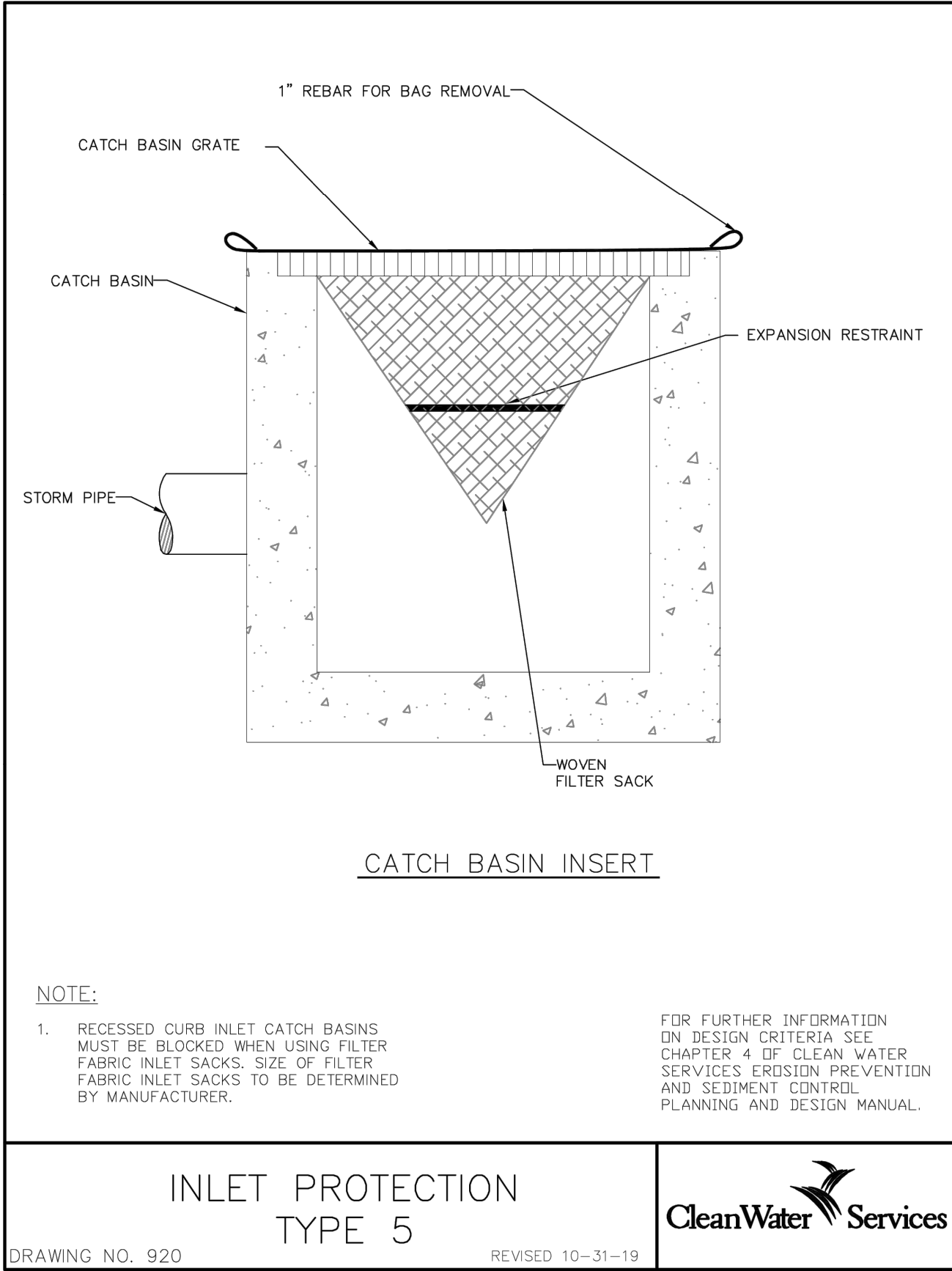
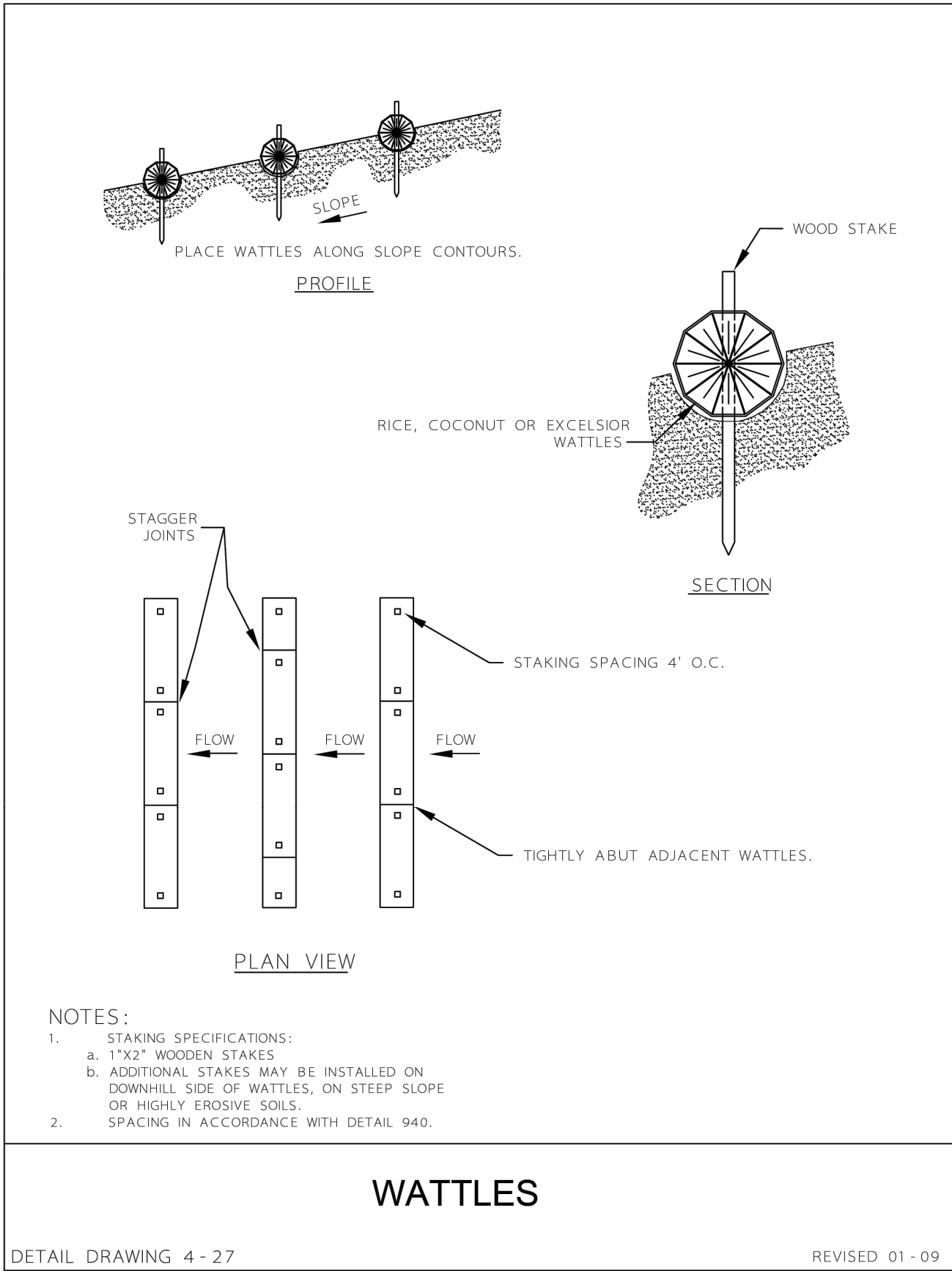
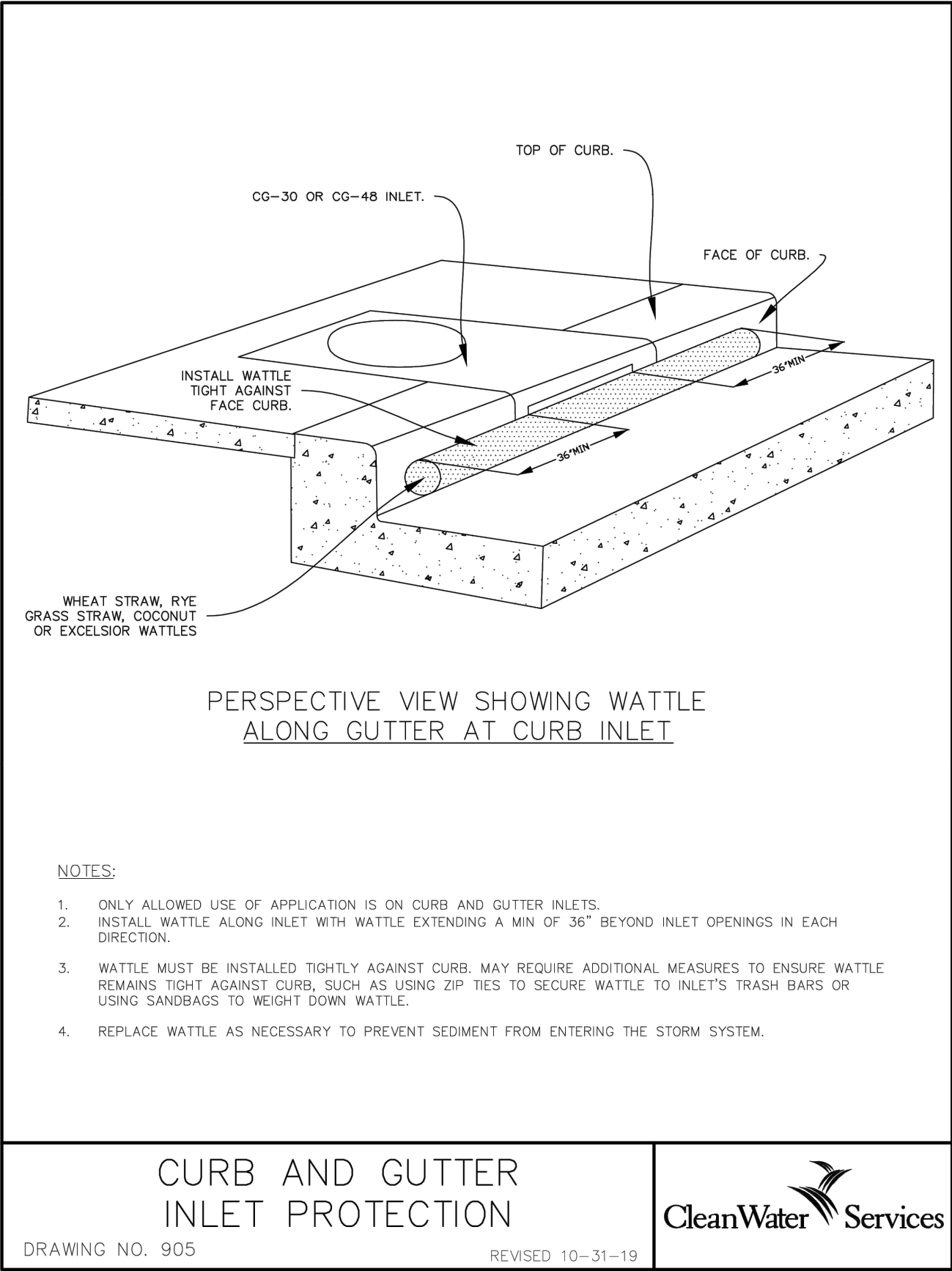
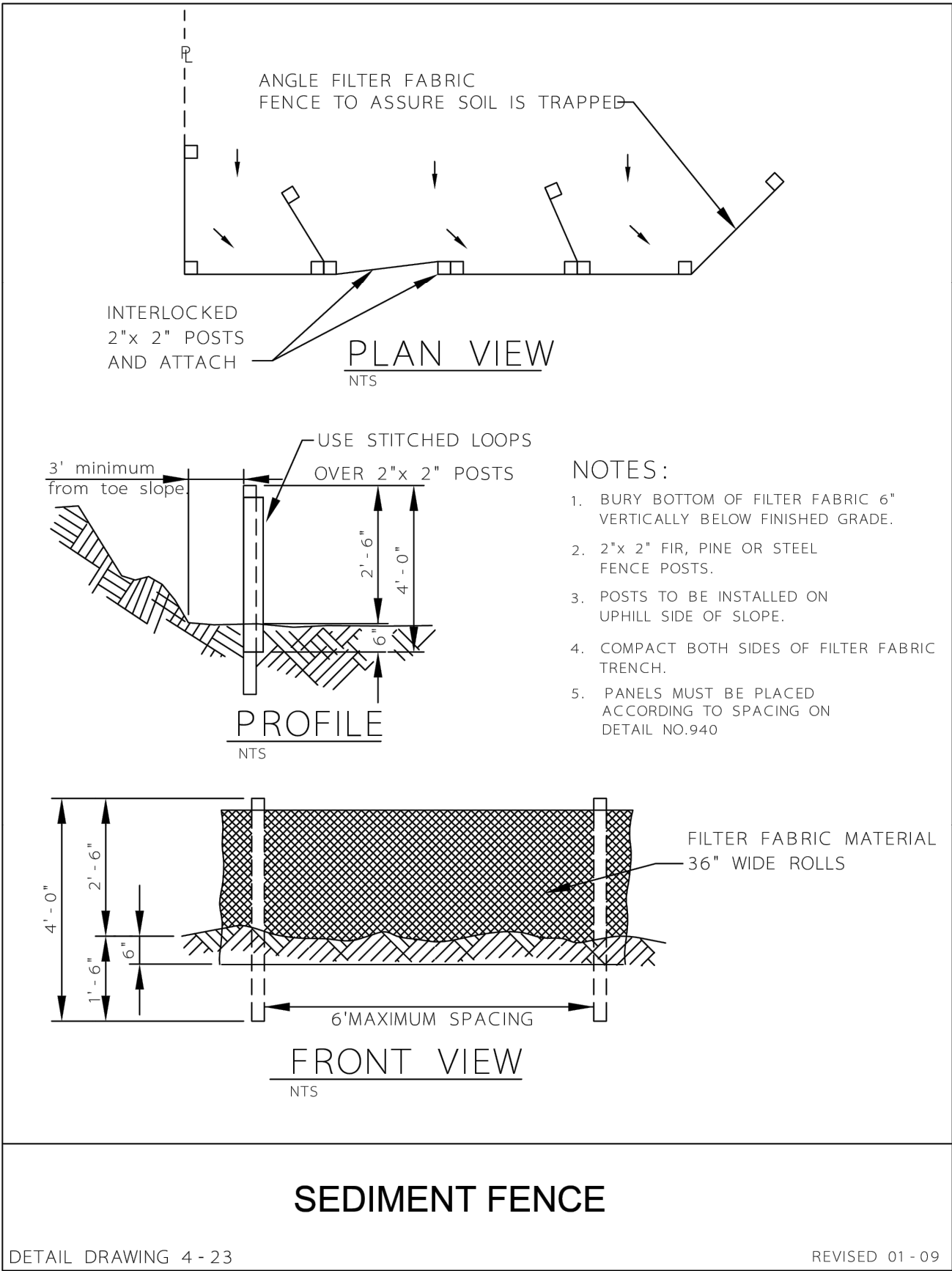
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS ACCEPTED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS OR VIOLATE APPLICABLE STANDARDS.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. CONTRACTOR IS REQUIRED TO KEEP WRITTEN INSPECTION LOGS.
- AT NO TIME SHALL THE SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED GRAVEL ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- STORM DRAIN INLETS, BASINS AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
- PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
- SEEDING OR HYDRO-SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1.
- IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT. SEE THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CHAPTER 4) FOR REQUIREMENTS.
- THE OWNER SHALL REMOVE ESC MEASURES WHEN VEGETATION IS FULLY ESTABLISHED.
- ALL EROSION CONTROL MEASURES SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- INSTALL WATTLES OR BIOBAGS AROUND EDGE OF EXPOSED BASE FOR SIDEWALK & ADA RAMP WORK AREAS.

INSPECTION AND MAINTENANCE

- INSPECT DAILY ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT.
- IMMEDIATELY REPAIR ANY DAMAGE.
- REMOVE ACCUMULATED SEDIMENT ONCE IT HAS REACHED 1/3 THE BARRIER HEIGHT OR A MAXIMUM OF 10 INCHES, WHICHEVER IS LESS.
- INSPECT FOR CHANNEL FORMATION PARALLEL TO THE FENCE, WHICH INDICATES THAT THE GEOTEXTILE IS ACTING AS A FLOW BARRIER.
- REPLACE DETERIORATED OR CLOGGED GEOTEXTILE.
- CHECK FOR UNDERCUTTING OR PIPING UNDER FENCE.

TEMPORARY GRASSES AND PERMANENT VEGETATIVE COVER

- TEMPORARY GRASS COVER MEASURES MUST BE FULLY ESTABLISHED BY NOVEMBER 1 OR OTHER COVER MEASURES WILL HAVE TO BE IMPLEMENTED UNTIL ADEQUATE GRASS COVERAGE IS ACHIEVED. TO ESTABLISH AN ADEQUATE GRASS STAND FOR CONTROLLING EROSION BY NOVEMBER 1, IT IS RECOMMENDED THAT SEEDING AND MULCHING OCCUR BY SEPTEMBER 1. (ANY SEEDING PLANNED AFTER SEPTEMBER 1 MUST BE PRE-GERMINATED GRASS SEED.)
- HYDROMULCH SHALL BE APPLIED WITH GRASS SEED AT A RATE OF 2000 LB/ACRE ON SLOPES STEEPER THAN 10 PERCENT, HYDROSEED AND MULCH SHALL BE APPLIED WITH A BONDING AGENT (TACKIFIER). APPLICATION RATE AND METHODOLOGY TO BE IN ACCORDANCE WITH SEED SUPPLIER RECOMMENDATIONS.
- SEEDING-RECOMMENDED EROSION CONTROL GRASS SEED MIXES SHALL FOLLOW SEEDING GUIDELINES AS PER CLACKAMAS COUNTY WES EROSION PREVENTION PLANNING & DESIGN MANUAL. SIMILAR MIXES DESIGNED TO ACHIEVE EROSION CONTROL MAY BE SUBSTITUTED IF APPROVED BY JURISDICTION.
- FERTILIZATION FOR GRASS SEED - IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATIONS.
- WATERING-SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE TO ESTABLISH GRASS.
- SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PROVIDE ADEQUATE MOISTURE WITHOUT CAUSING RUNOFF.
- RE-SEEDING - AREAS WHICH FAIL TO ESTABLISH GRASS COVER ADEQUATE TO PREVENT EROSION SHALL BE RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED, AND ALL APPROPRIATE MEASURES TAKEN TO ESTABLISH ADEQUATE COVER.
- AT THE END OF SITE CONSTRUCTION, PAVING APPROVED PERMANENT SITE LANDSCAPING OR ESTABLISHMENT OF A HEALTHY STAND OF GRASS (OR ALTERNATIVE VEGETATION AS APPROVED) MUST OCCUR PRIOR TO REMOVAL OF SITE EROSION CONTROL MEASURES.



DESIGNED	CA/MA						
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	SYM		REVISION		DATE	BY	APP'D



PACE Engineers  
4500 Kruse Way, Suite 250  
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CITY OF HAPPY VALLEY  
ENGINEERING DEPARTMENT  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

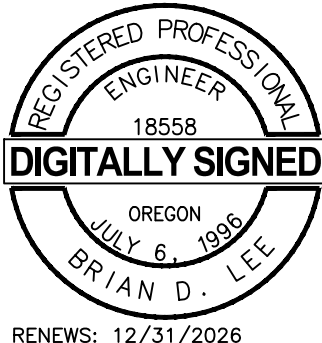
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DATE  
JUNE 2025  
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AS SHOWN

HAPPY VALLEY 2025 STREET IMPROVEMENTS  
CIP-02-25  
EROSION CONTROL STANDARD NOTES & DETAILS

CALL BEFORE  
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UNDERGROUND SERVICE (USA)

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PACE PROJECT NO.  
250032

DWG NAME: P250032--TESC--DET.DWG

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