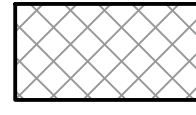

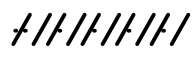


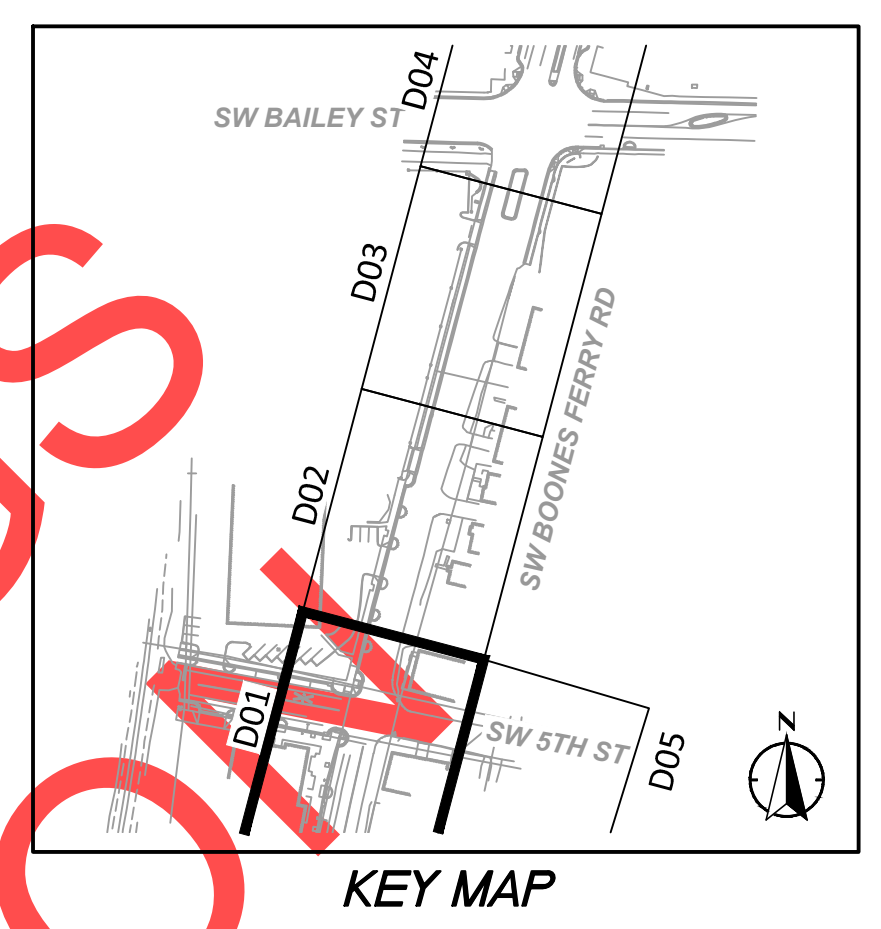


**LEGEND**

-  REMOVE EXISTING ASPHALT, CURB AND GUTTER, OR SIDEWALK
-  MILL EXISTING ASPHALT FOR PAVEMENT OVERLAY
-  REMOVE EXISTING FEATURE
-  SAWCUT
-  REMOVE EXISTING FEATURE



**DEMOLITION NOTES**

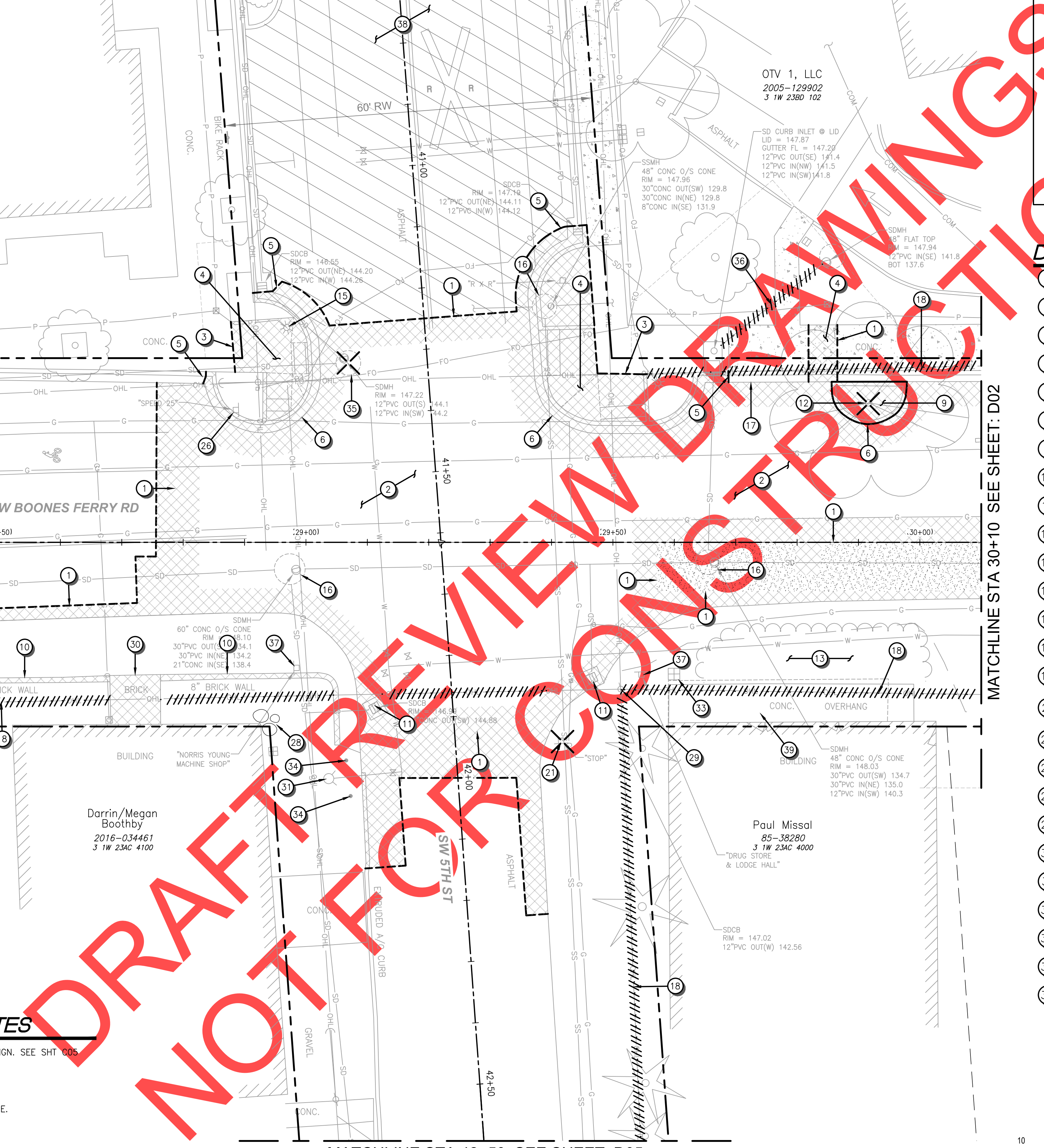
- 1 SAWCUT (E) ASPHALT.
- 2 REMOVE (E) AC, FULL DEPTH.
- 3 SAWCUT (E) CONCRETE SIDEWALK.
- 4 REMOVE (E) CONCRETE SIDEWALK.
- 5 SAWCUT (E) CONCRETE CURB & GUTTER.
- 6 REMOVE (E) CONCRETE CURB & GUTTER.
- 9 REMOVE (E) CONCRETE CURB PLANTER ISLAND.
- 10 REMOVE (E) BRICK WALL.
- 11 REMOVE (E) CATCH BASIN.
- 12 REMOVE (E) TREE.
- 13 REMOVE (E) SHRUB.
- 15 PROTECT (E) LAMP POST.
- 16 PROTECT (E) MANHOLE.
- 17 PROTECT (E) CURB & GUTTER.
- 18 OVERHEAD POWER LINES TO BE REMOVED [BY OTHERS].
- 21 REMOVE, STORE AND RELOCATE (E) SIGN. SEE SIGNING, STRIPING & ILLUMINATION, SHTS IL-06 & SS-05.
- 25 MILL/REPAVE - 2" MIN.
- 26 PROTECT AND PRESERVE (E) SIGN.
- 28 REMOVE, STORE AND REPLACE (E) BOULDERS.
- 29 OVERHEAD POWER POLE TO BE REMOVED [BY OTHERS].
- 30 REMOVE (E) BRICK WALKWAY.
- 31 RELOCATE (E) FIRE HYDRANT, SEE SHEET C01.
- 33 RELOCATE WATER METER, SEE SHEET C01.
- 34 REMOVE (E) BOLLARD.
- 35 REMOVE (E) STORM MH.
- 36 ABANDON (E) STORM PIPE.

**GENERAL SHEET NOTES**

1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE RW, UNLESS OTHERWISE NOTED.
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

**DEMOLITION NOTES**

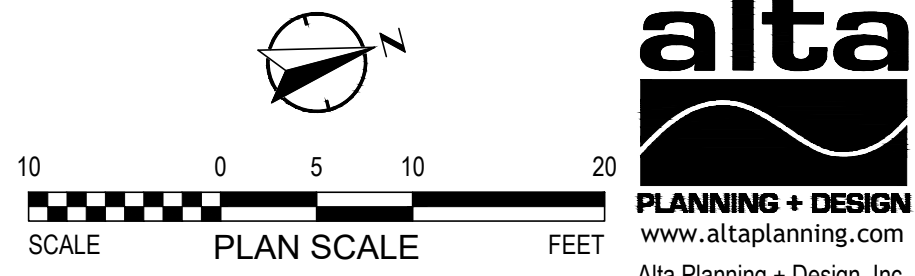
- 37 PROTECT AND PRESERVE (E) SIGN. SEE SHT C05
- 38 MILL/REPAVE [BY OTHERS].
- 39 PROTECT (E) PORCH STRUCTURE.



MATCHLINE STA 30+10 SEE SHEET: D02


MATCHLINE STA 42+50 SEE SHEET: D05

**PLAN**  
SCALE: 1" = 10'



NO.	REVISIONS

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	EA/MD
Checked By	MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
EXISTING CONDITIONS AND DEMOLITION  
BEGIN TO STA 30+10

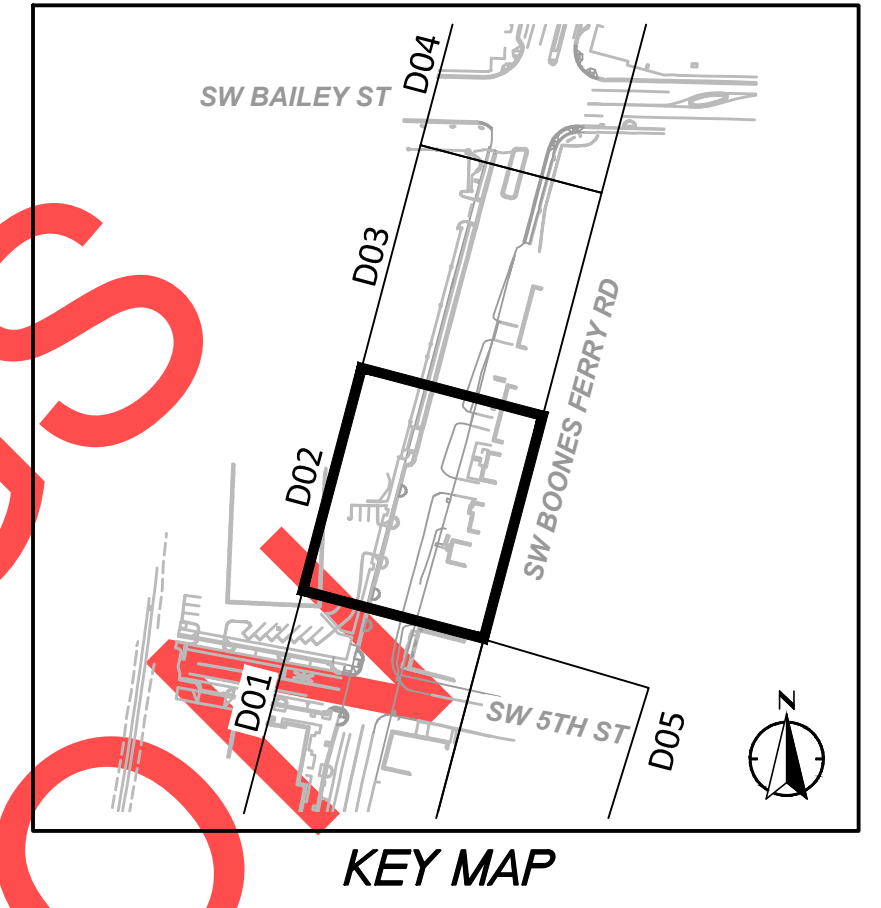
CIP #	4196
PROJECT #	2017-02-001
	D01
	151 of 211

100% PLANS - NOT FOR CONSTRUCTION

DRAFT REVIEW ONLY NOT FOR CONSTRUCTION

**LEGEND**

- REMOVE EXISTING ASPHALT, CURB AND GUTTER, OR SIDEWALK
- MILL EXISTING ASPHALT FOR PAVEMENT OVERLAY
- REMOVE EXISTING FEATURE
- SAWCUT
- REMOVE EXISTING FEATURE

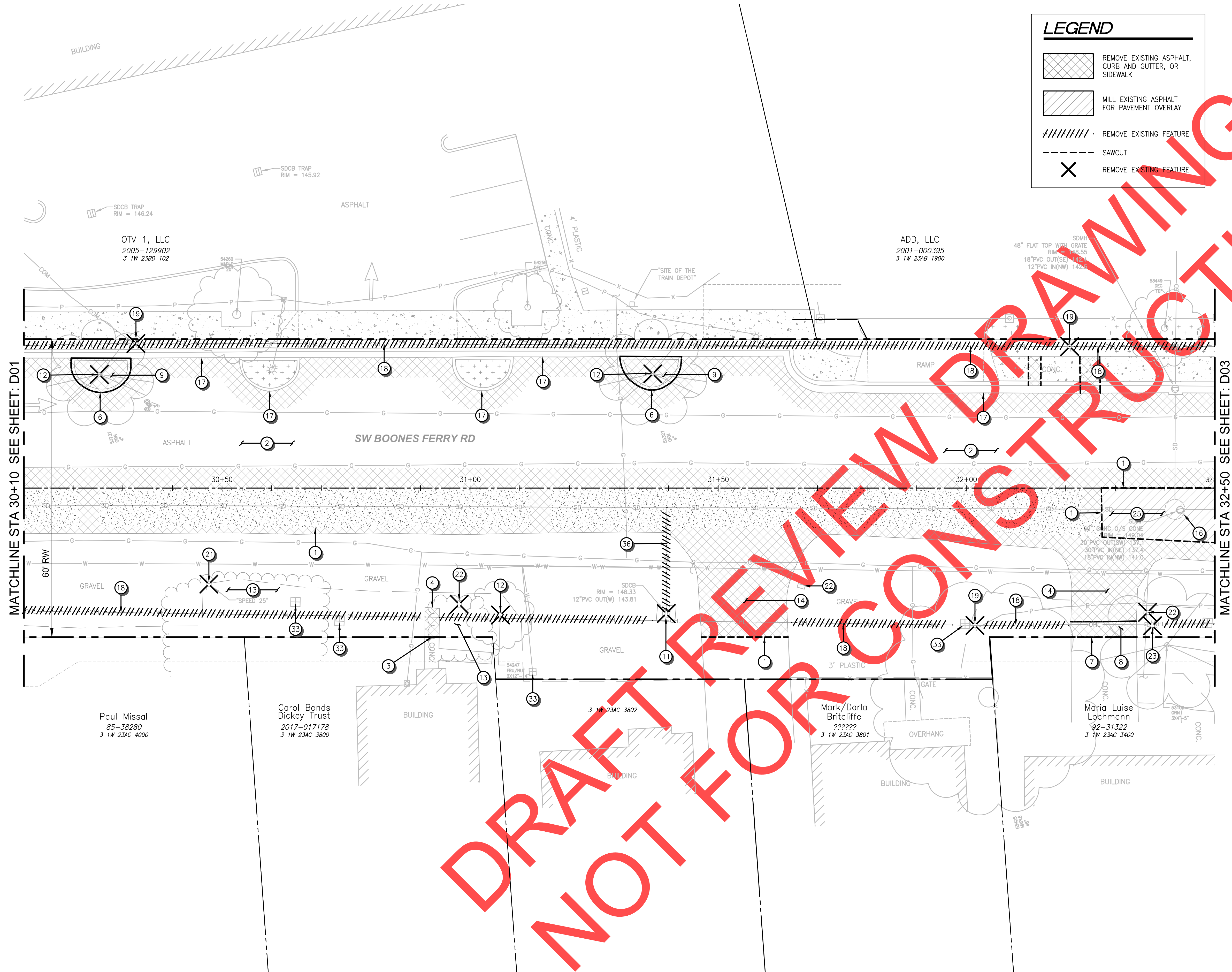


**DEMOLITION NOTES**

- 1 SAWCUT (E) ASPHALT.
- 2 REMOVE (E) AC, FULL DEPTH.
- 3 SAWCUT (E) CONCRETE SIDEWALK.
- 4 REMOVE (E) CONCRETE SIDEWALK.
- 6 REMOVE (E) CONCRETE CURB & GUTTER.
- 7 SAWCUT (E) CONCRETE DRIVEWAY.
- 8 REMOVE (E) CONCRETE DRIVEWAY.
- 9 REMOVE (E) CONCRETE CURB PLANTER ISLAND.
- 11 REMOVE (E) CATCH BASIN.
- 12 REMOVE (E) TREE.
- 13 REMOVE (E) SHRUB.
- 14 REMOVE (E) ASPHALT DRIVEWAY. COORDINATE WITH CITY AND RESIDENTS.
- 16 PROTECT (E) MANHOLE.
- 17 PROTECT (E) CURB & GUTTER.
- 18 OVERHEAD POWER LINES TO BE REMOVED [BY OTHERS].
- 19 POWER POLE TO BE REMOVED [BY OTHERS].
- 21 REMOVE, STORE AND RELOCATE (E) SIGN. SEE SIGNING, STRIPING & ILLUMINATION, SHTS IL-06 & SS-05.
- 22 SALVAGE AND RELOCATE MAILBOX, SEE SHT C02.
- 23 COORDINATE WITH OWNER AND RELOCATE RESIDENTIAL LIGHT POST.
- 25 MILL/REPAVE - 2" MIN.
- 33 RELOCATE WATER METER, SEE SHEET C01.
- 36 ABANDON (E) STORM PIPE.

**GENERAL SHEET NOTES**

1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W. UNLESS OTHERWISE NOTED.
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.



**PLAN**  
SCALE: 1" = 10'

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 711 SE GRAND AVE  
 PORTLAND, OR 97214  
 p: 503.230.9862

NO.	REVISIONS

**City of Wilsonville**  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

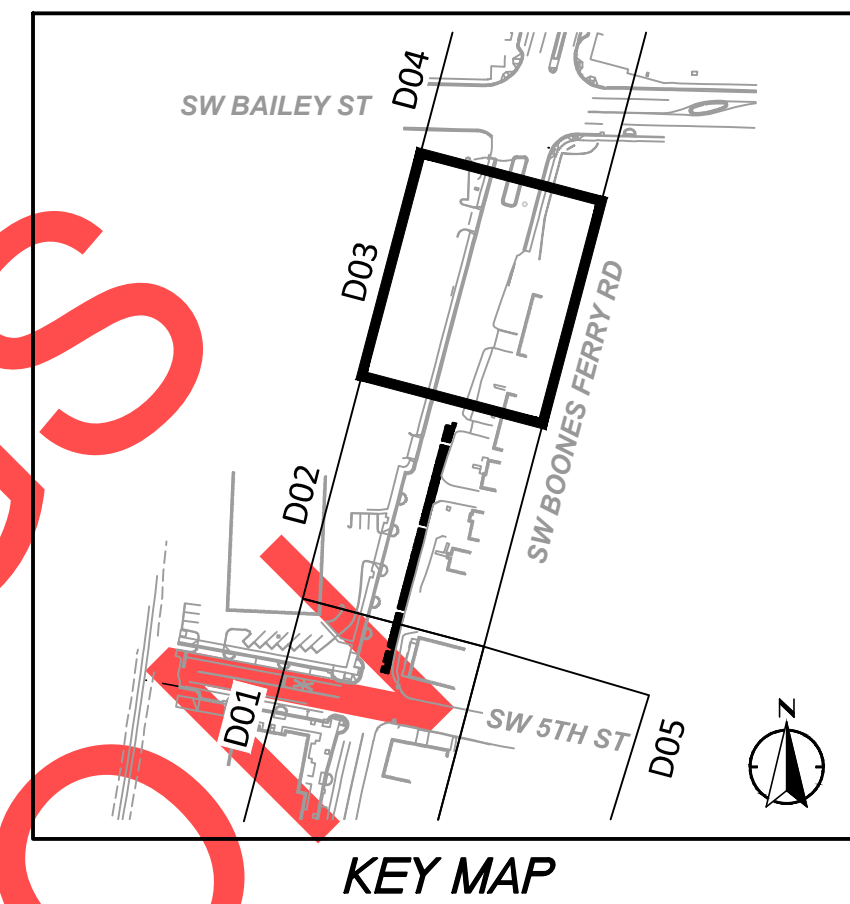
Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	EA/MD
Checked By	MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 EXISTING CONDITIONS AND DEMOLITION  
 STA 30+10 TO STA 32+50

CIP #	4196
PROJECT #	2017-02-001
	D02
	152 of 211

**LEGEND**

	REMOVE EXISTING ASPHALT, CURB AND GUTTER, OR SIDEWALK
	MILL EXISTING ASPHALT FOR PAVEMENT OVERLAY
	REMOVE EXISTING FEATURE
	SAWCUT
	REMOVE EXISTING FEATURE

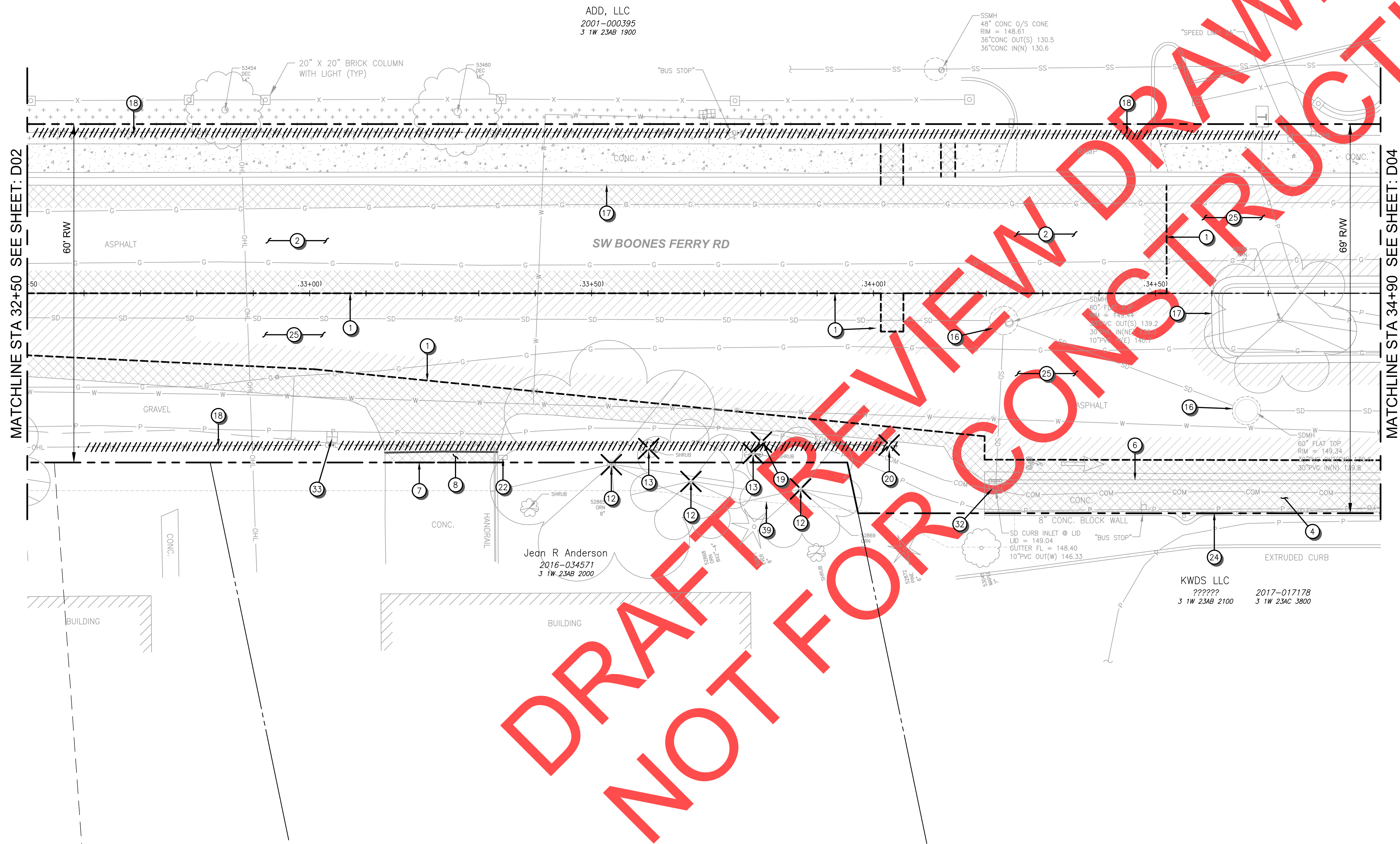


**DEMOLITION NOTES**

- 1 SAWCUT (E) ASPHALT.
- 2 REMOVE (E) AC, FULL DEPTH.
- 4 REMOVE (E) CONCRETE SIDEWALK.
- 6 REMOVE (E) CONCRETE CURB & GUTTER.
- 7 SAWCUT (E) CONCRETE DRIVEWAY.
- 8 REMOVE (E) CONCRETE DRIVEWAY.
- 12 REMOVE (E) TREE.
- 13 REMOVE (E) SHRUB.
- 16 PROTECT (E) MANHOLE.
- 17 PROTECT (E) CURB & GUTTER.
- 18 OVERHEAD POWER LINES TO BE REMOVED [BY OTHERS]
- 19 POWER POLE TO BE REMOVED [BY OTHERS].
- 20 GUY WIRES TO BE REMOVED [BY OTHERS].
- 22 SALVAGE AND RELOCATE MAILBOX, SEE SHT C02.
- 24 PROTECT (E) BRICK WALL.
- 25 MILL/REPAVE - 2" MIN.
- 32 PROTECT (E) CATCH BASIN.
- 33 RELOCATE WATER METER, SEE SHEET C01.
- 39 TEMPORARY EASEMENT

**GENERAL SHEET NOTES**

1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W, UNLESS OTHERWISE NOTED.
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.



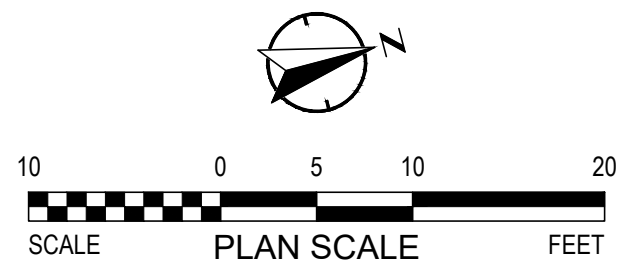
DRAFT FOR CONSTRUCTION

ADD, LLC  
2001-000395  
3 1W 23AB 1900

Jean R Anderson  
2016-034571  
3 1W 23AB 2000

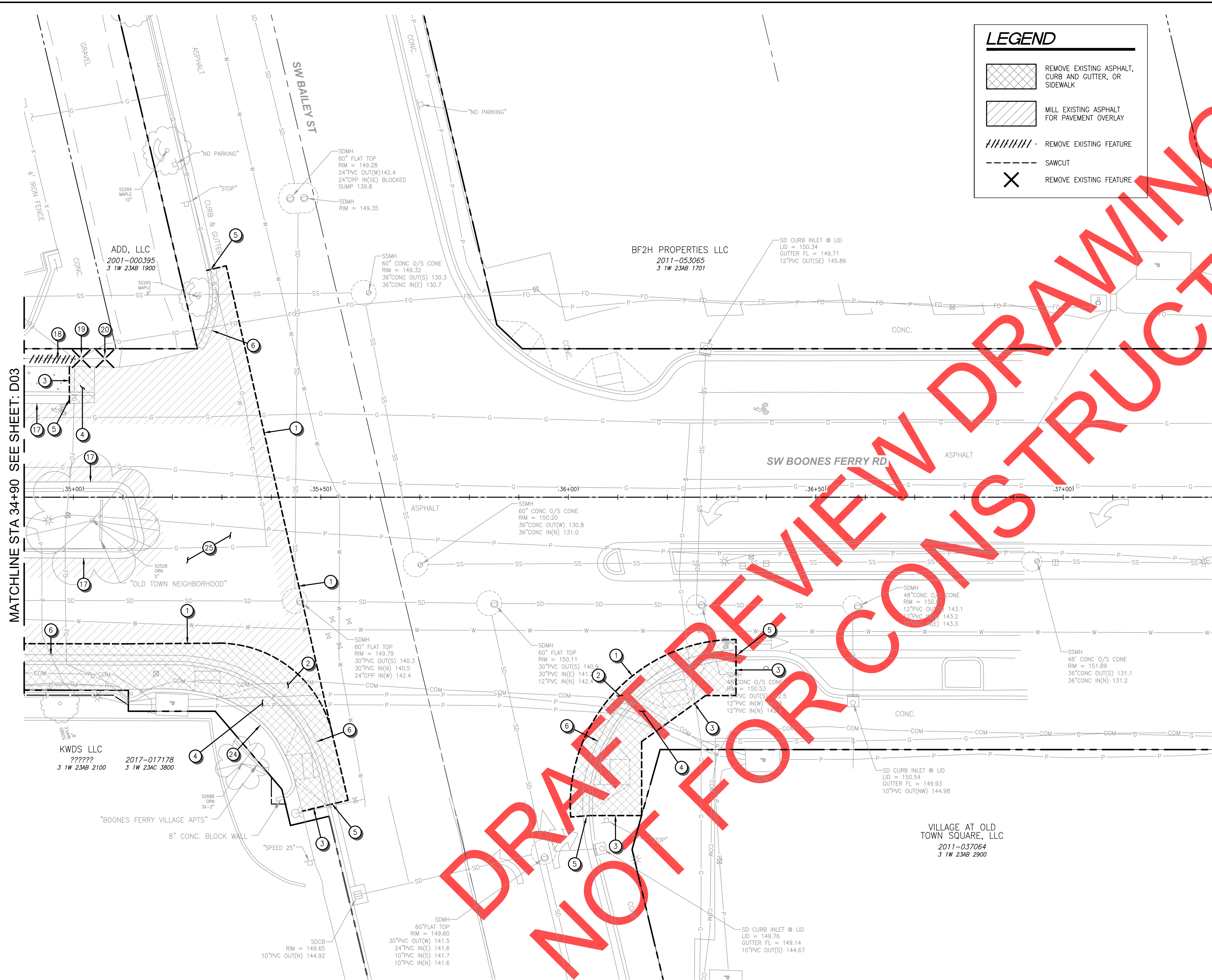
KWDS LLC  
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3 1W 23AC 3800

**PLAN**  
SCALE: 1" = 10'



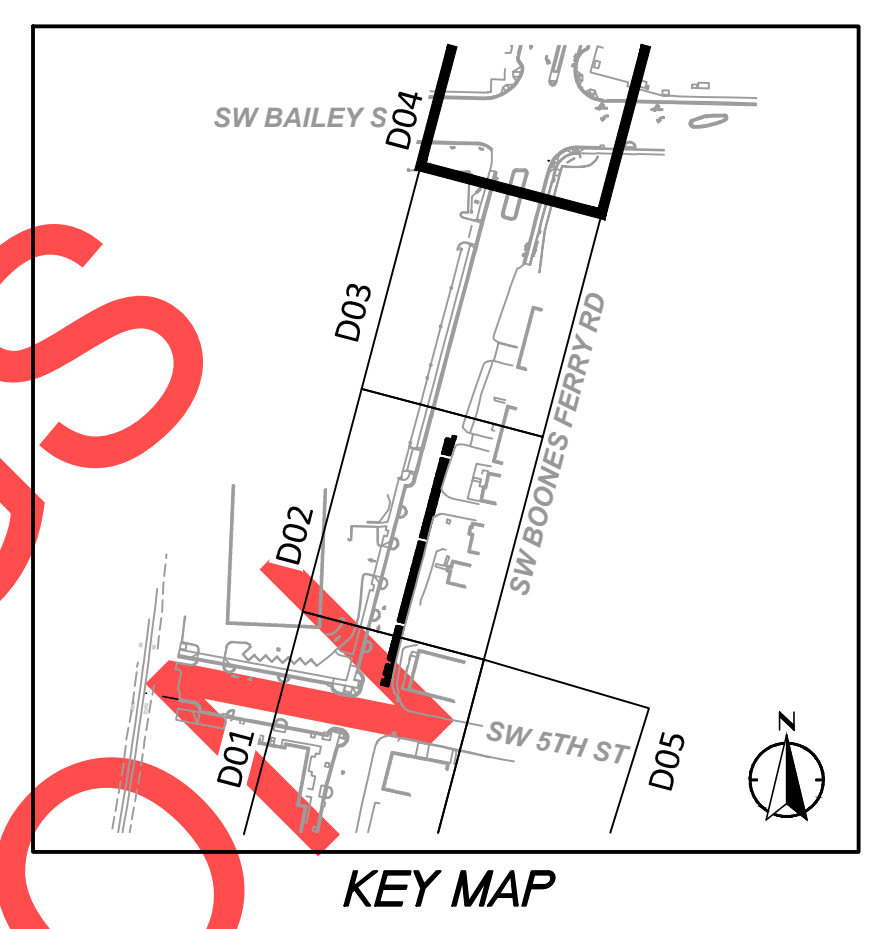
<p>REVISIONS</p>	<p>Date: 1 February 2019 Scale: AS SHOWN Designed By: SRB Drawn By: EA/MD Checked By: MS</p>
<p>City of Wilsonville Engineering Department 29799 SW Town Center Loop E Wilsonville, OR 97070 Phone 503-682-4960</p>	
<p><b>SW 5TH ST TO SW KINSMAN RD EXTENSION</b> <b>SW BOONES FERRY RD - 5TH TO BAILEY</b> EXISTING CONDITIONS AND DEMOLITION STA 32+50 TO STA 34+90</p>	
<p>CIP # 4196 PROJECT # 2017-02-001 D03 153 of 211</p>	

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-04-D04.dwg, 2/1/2019 12:08:51 PM, DWG To PDF.pc3



**LEGEND**

- [Cross-hatched box] REMOVE EXISTING ASPHALT, CURB AND GUTTER, OR SIDEWALK
- [Diagonal hatched box] MILL EXISTING ASPHALT FOR PAVEMENT OVERLAY
- [Dashed line] REMOVE EXISTING FEATURE
- [Dashed line] SAWCUT
- [X symbol] REMOVE EXISTING FEATURE

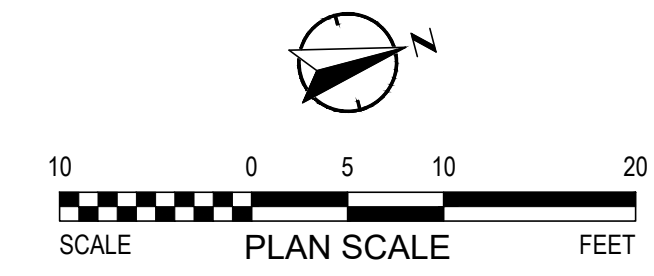


- DEMOLITION NOTES**
- SAWCUT (E) ASPHALT.
  - REMOVE (E) AC, FULL DEPTH.
  - SAWCUT (E) CONCRETE SIDEWALK.
  - REMOVE (E) CONCRETE SIDEWALK.
  - SAWCUT (E) CONCRETE CURB & GUTTER.
  - REMOVE (E) CONCRETE CURB & GUTTER.
  - PROTECT (E) CURB & GUTTER.
  - OVERHEAD POWER LINES TO BE REMOVED [BY OTHERS]
  - POWER POLE TO BE REMOVED [BY OTHERS].
  - GUY WIRES TO BE REMOVED [BY OTHERS].
  - PROTECT (E) BRICK WALL.
  - MILL/REPAVE - 2" MIN.

- GENERAL SHEET NOTES**
- PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W, UNLESS OTHERWISE NOTED.
  - PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

**DRAFT FOR REVIEW NOT FOR CONSTRUCTION**

**PLAN**  
SCALE: 1" = 10'



**REVISIONS**


City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

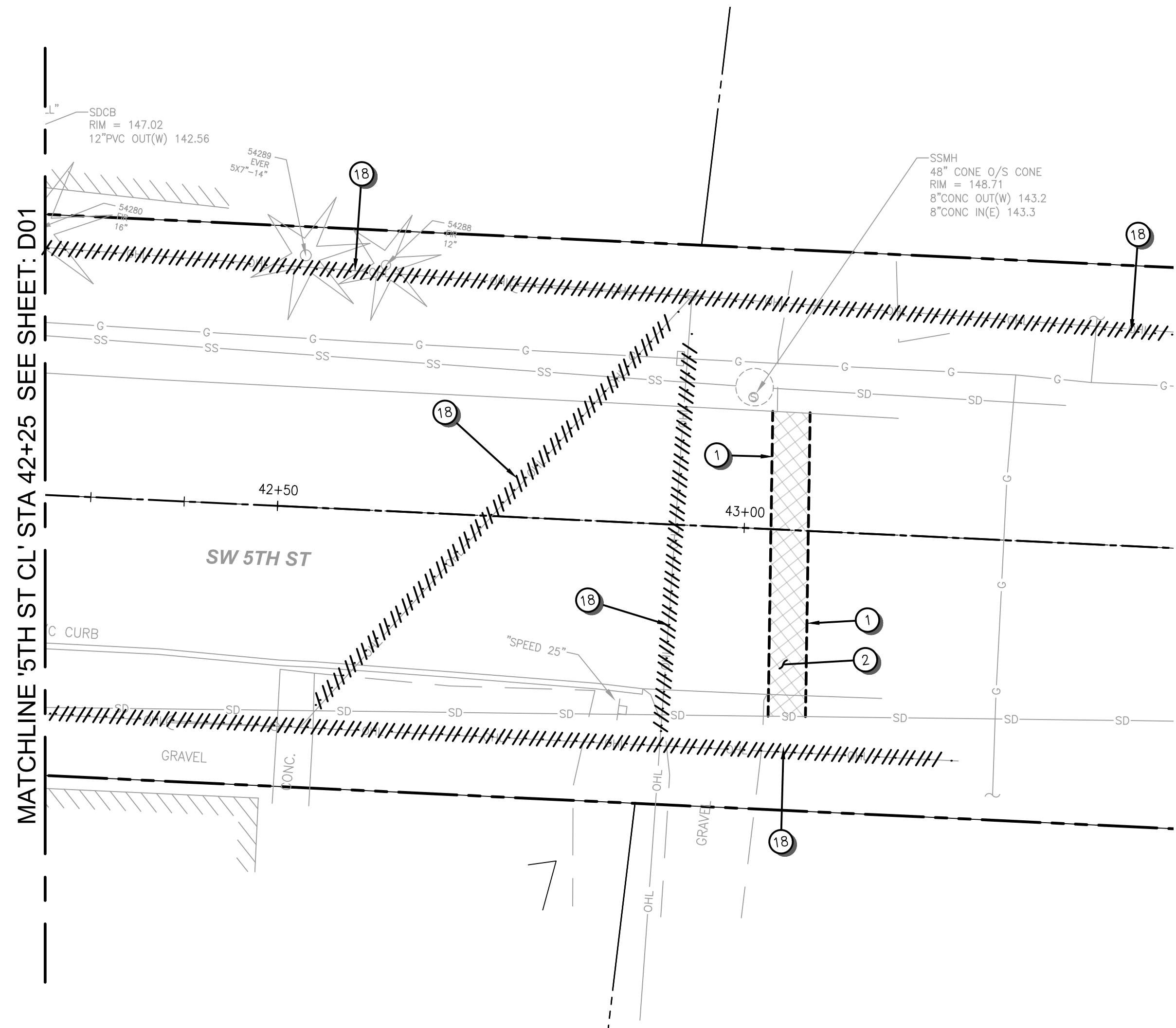
Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: SRB  
Drawn By: EA/MD  
Checked By: MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
**EXISTING CONDITIONS AND DEMOLITION**  
**STA 34+90 TO END**

CIP # 4196  
PROJECT # 2017-02-001  
D04  
154 of 211

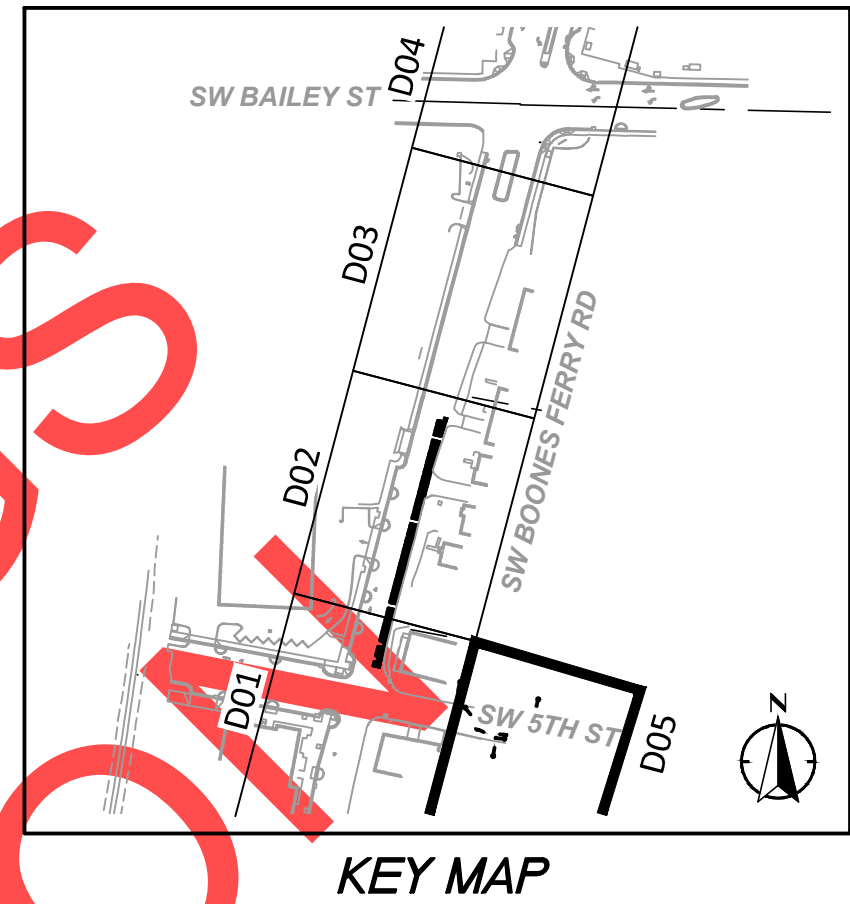
100% PLANS - NOT FOR CONSTRUCTION

DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION



**LEGEND**

- REMOVE EXISTING ASPHALT, CURB AND GUTTER, OR SIDEWALK
- MILL EXISTING ASPHALT FOR PAVEMENT OVERLAY
- REMOVE EXISTING FEATURE
- SAWCUT
- REMOVE EXISTING FEATURE



**DEMOLITION NOTES**

- 1 SAWCUT (E) ASPHALT.
- 2 REMOVE (E) AC, FULL DEPTH.
- 3 SAWCUT (E) CONCRETE SIDEWALK.
- 4 REMOVE (E) CONCRETE SIDEWALK.
- 5 SAWCUT (E) CONCRETE CURB & GUTTER.
- 17 PROTECT (E) CURB & GUTTER.
- 18 OVERHEAD POWER LINES TO BE REMOVED [BY OTHERS]
- 25 MILL/REPAVE - 2" MIN.

**GENERAL SHEET NOTES**

- 1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W. UNLESS OTHERWISE NOTED.
- 2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

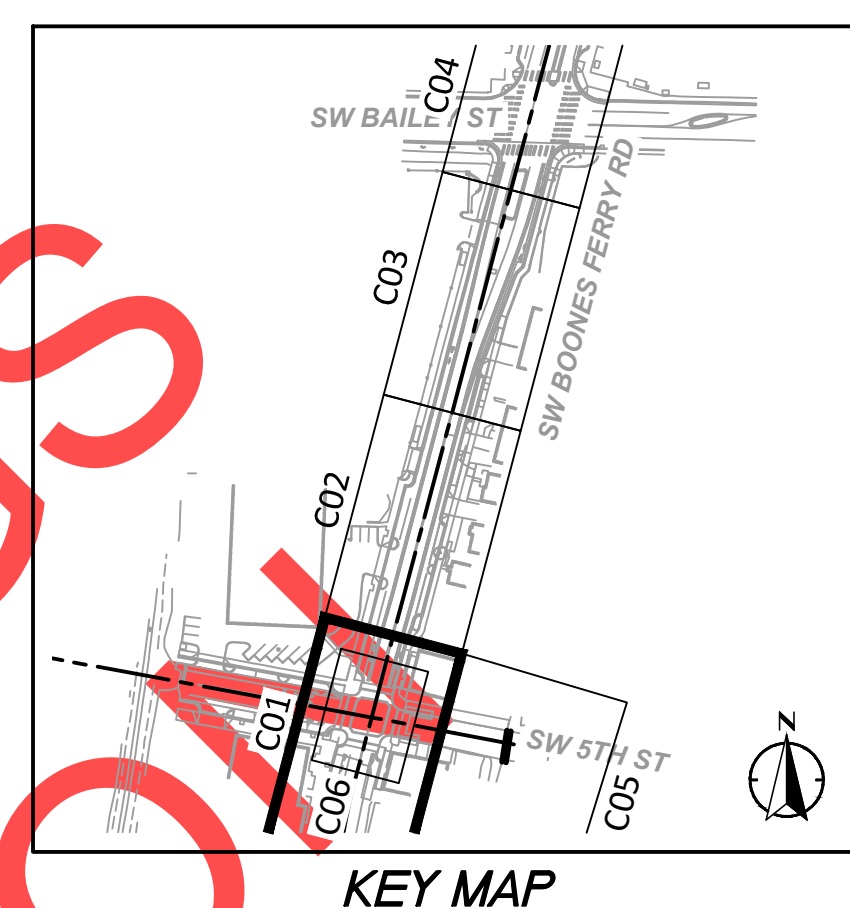
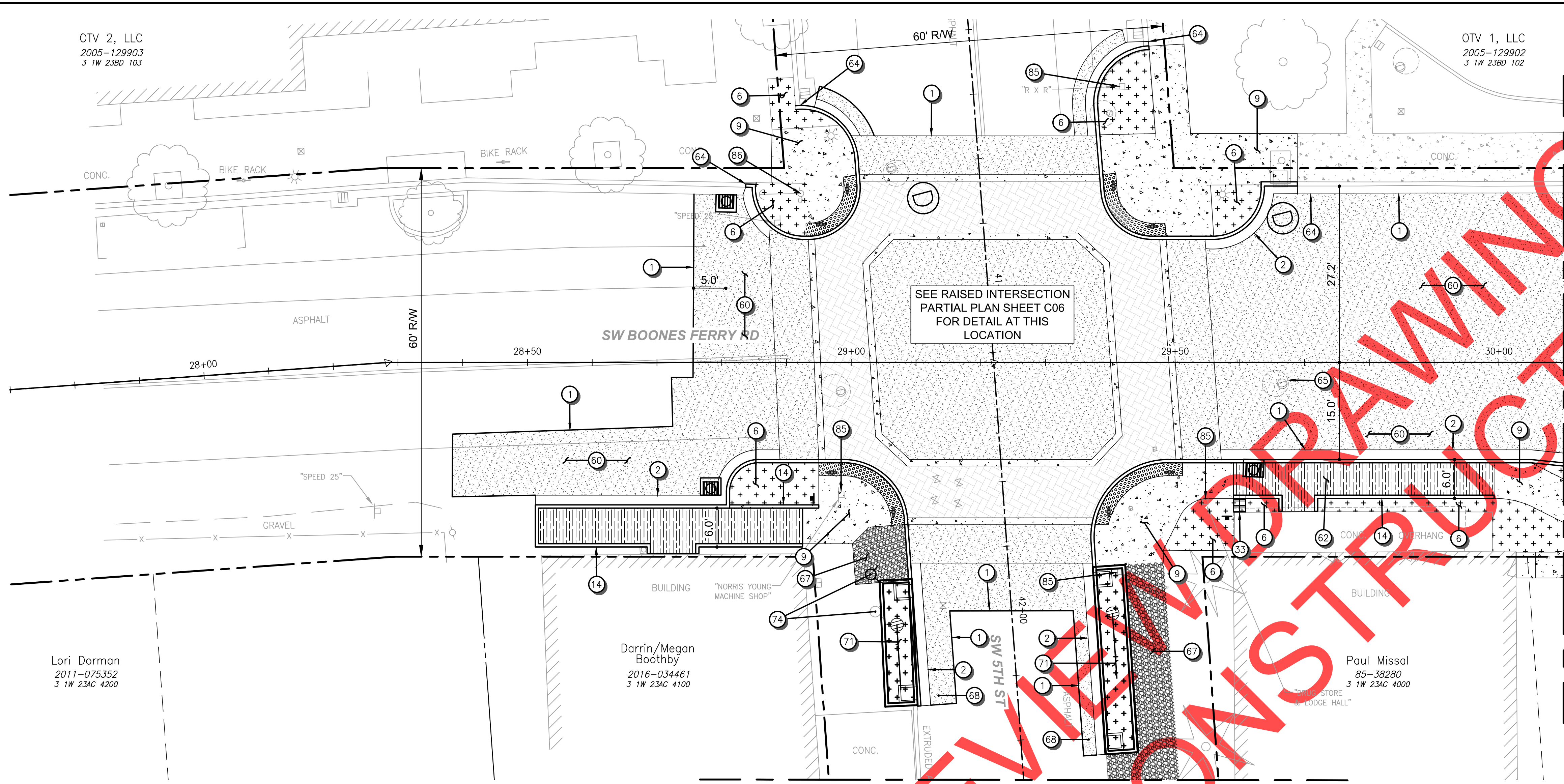
**PLAN**  
SCALE: 1" = 10'

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 PORTLAND, OR 97214  
 p: 503.230.9862

<p style="font-size: 8pt; margin: 0;">         Date: 1 February 2019          Scale: AS SHOWN          Designed By: SRB          Drawn By: EA/MD          Checked By: MS       </p>	<p style="font-size: 8pt; margin: 0;"> <b>City of Wilsonville</b>          Engineering Department          29799 SW Town Center Loop E          Wilsonville, OR 97070          Phone: 503-682-4960       </p>
<p style="font-size: 10pt; margin: 0;"> <b>SW 5TH ST TO SW KINSMAN RD EXTENSION</b>  <b>SW BOONES FERRY RD - 5TH TO BAILEY</b>          EXISTING CONDITIONS AND DEMOLITION          STA 34+90 TO END       </p>	
<p style="font-size: 8pt; margin: 0;">         CIP # 4196          PROJECT # 2017-02-001          D05          155 of 211       </p>	<p style="font-size: 8pt; margin: 0;">         REVISIONS       </p>

OTV 2, LLC  
2005-129903  
3 1W 236D 103

OTV 1, LLC  
2005-129902  
3 1W 236D 102



**CONSTRUCTION NOTES**

- 1 SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK.
- 2 ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
- 6 LANDSCAPE AREA SEE "L" SHEETS.
- 9 CONCRETE SIDEWALK. SEE CITY DETAIL RD-1075 ON SHEET DT01.
- 14 MODIFIED CONCRETE CURB. SEE DETAIL ON SHEET DT01.
- 33 RELOCATE WATER METER, PLACE EAST OF CURB AND UNIT PAVERS.
- 60 CONSTRUCT FULL-DEPTH ASPHALT ROADWAY. SEE DETAIL DT15.
- 62 UNIT PAVERS, FROM STA 28+52 TO STA 28+93, FROM STA 29+59 TO STA 29+99. SEE DETAIL ON SHEET DT13.
- 64 MATCH (E) CURB AND GUTTER.
- 65 ADJUST (E) MANHOLE RIM TO MATCH FG.
- 67 GRAVEL, MATCH (E) ELEV. SEE "L" SHEETS FOR DETAILS.
- 68 ASPHALT PATCH. SEE CITY DETAIL RD-1170
- 71 FILTRATION PLANTER. SEE "SD" SHEETS FOR DETAILS.
- 74 RELOCATE (E) FIRE HYDRANT, PLACE IN GRAVEL AREA WEST OF SWALE.
- 85 REMOVE, STORE AND RELOCATE (E) SIGN.
- 86 PROTECT (E) POWER POLE.

**GENERAL SHEET NOTES**

- 1. BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
- 2. SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
- 3. SEE STORMWATER "SD" PLANS FOR RELATED WORK AT THIS LOCATION.
- 4. SEE LANDSCAPE "L" PLANS FOR RELATED WORK AT THIS LOCATION.



10 0 5 10 20  
SCALE PLAN SCALE FEET

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**REVISIONS**

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: SRB  
Drawn By: MD  
Checked By: MS

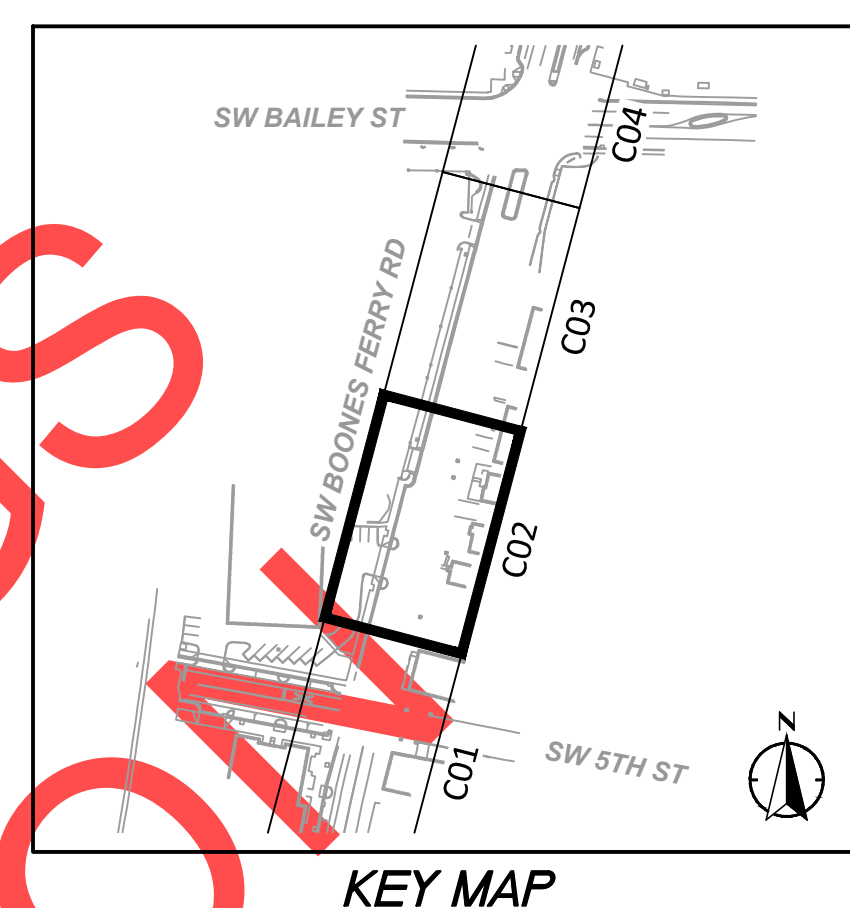
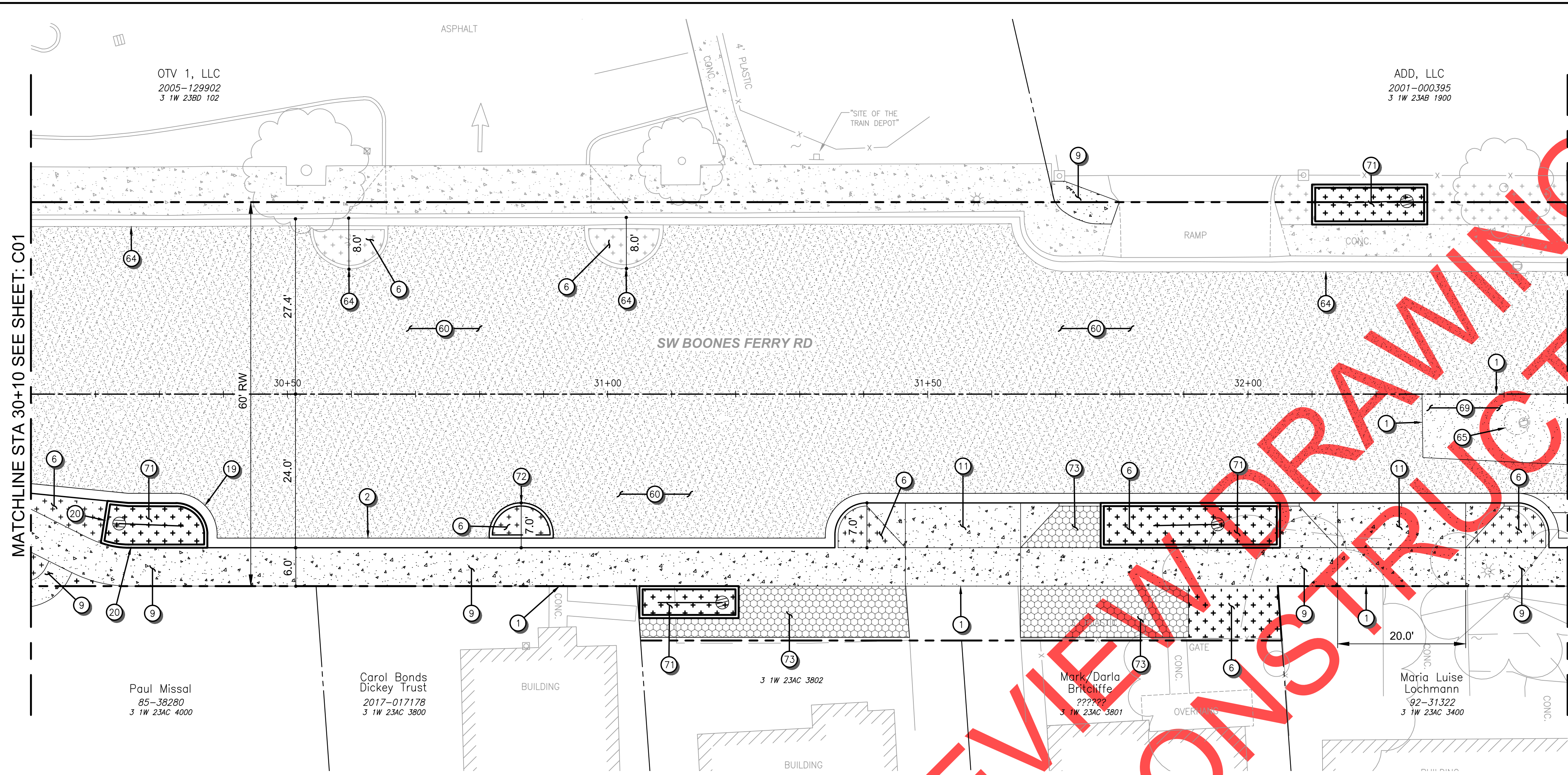
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
ROADWAY - PLAN AND PROFILE  
BEGIN TO STA 30+10

CIP # 4196  
PROJECT # 2017-02-001  
C01  
156 of 211

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-06-C01.dwg, 2/1/2019 12:10:05 PM, DWG To PDF.pc3  
 Plot style table: OakFULL\_Black\_White.ctb  
 Plot date: 2/1/2019 12:10 PM  
 User: marionson

100% PLANS - NOT FOR CONSTRUCTION

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-07-C02.dwg 2/1/2019 12:10 PM Plotstyle table: Oak\FULL.Black\_White.CTB



### CONSTRUCTION NOTES

- 1 SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK.
- 2 ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
- 6 LANDSCAPE AREA SEE "L" SHEETS.
- 9 CONCRETE SIDEWALK. SEE CITY DETAIL RD-1075 ON SHEET DT01.
- 19 MODIFIED CURB & GUTTER SEE DETAIL ON SHT 72
- 20 WATER QUALITY CURB. SEE DETAILS ON SHEET 72.
- 11 COMMERCIAL DRIVEWAY - TYPE I. SEE CITY DETAIL RD-1095 ON SHEET DT02.
- 60 CONSTRUCT FULL-DEPTH ASPHALT ROADWAY, SEE DETAIL DT15.
- 64 MATCH EXTG CURB AND GUTTER.
- 65 ADJUST EXTG MANHOLE RIM TO MATCH FG.
- 69 RESURFACE ASPHALT ROADWAY, SEE DT15
- 71 FILTRATION PLANTER. SEE "SD" SHEETS FOR DETAILS.
- 72 CONCRETE CURB. SEE DETAIL DT01.
- 73 TURF BLOCK. SEE DETAIL ON SHEET DT14.

### GENERAL SHEET NOTES

1. BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
2. SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
3. SEE STORMWATER "UT" PLANS FOR RELATED WORK AT THIS LOCATION.
4. SEE LANDSCAPE "L" PLANS FOR RELATED WORK AT THIS LOCATION.



10 0 5 10 20  
SCALE PLAN SCALE VERT SCALE: 1" = 2' FEET

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p. 503.230.9862

NO.	REVISIONS

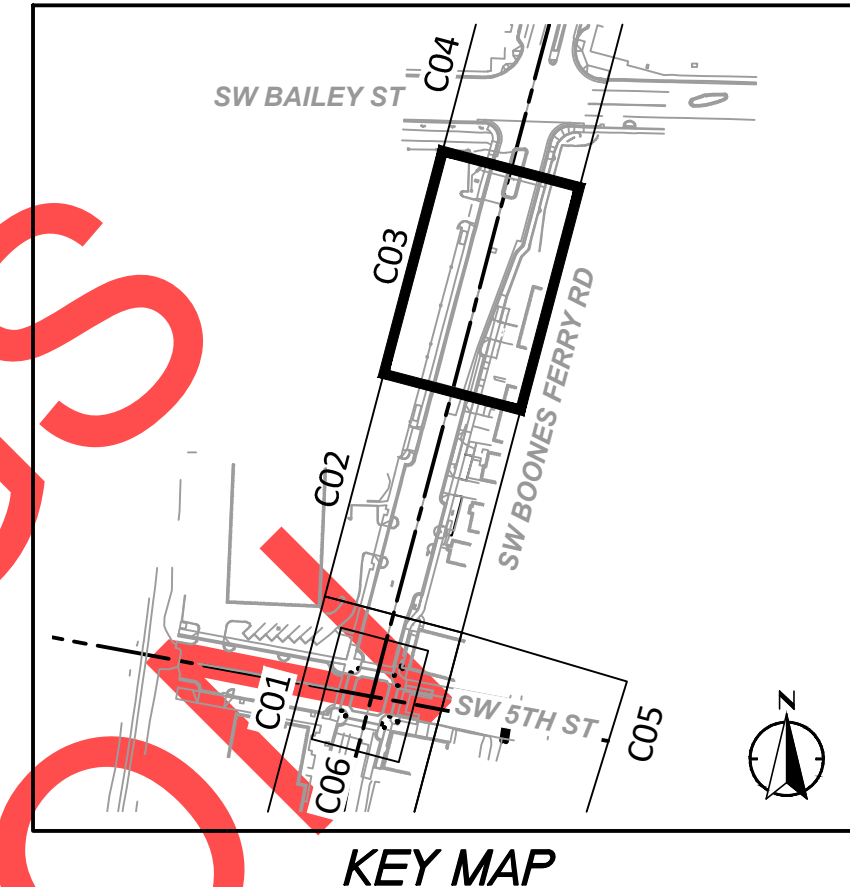
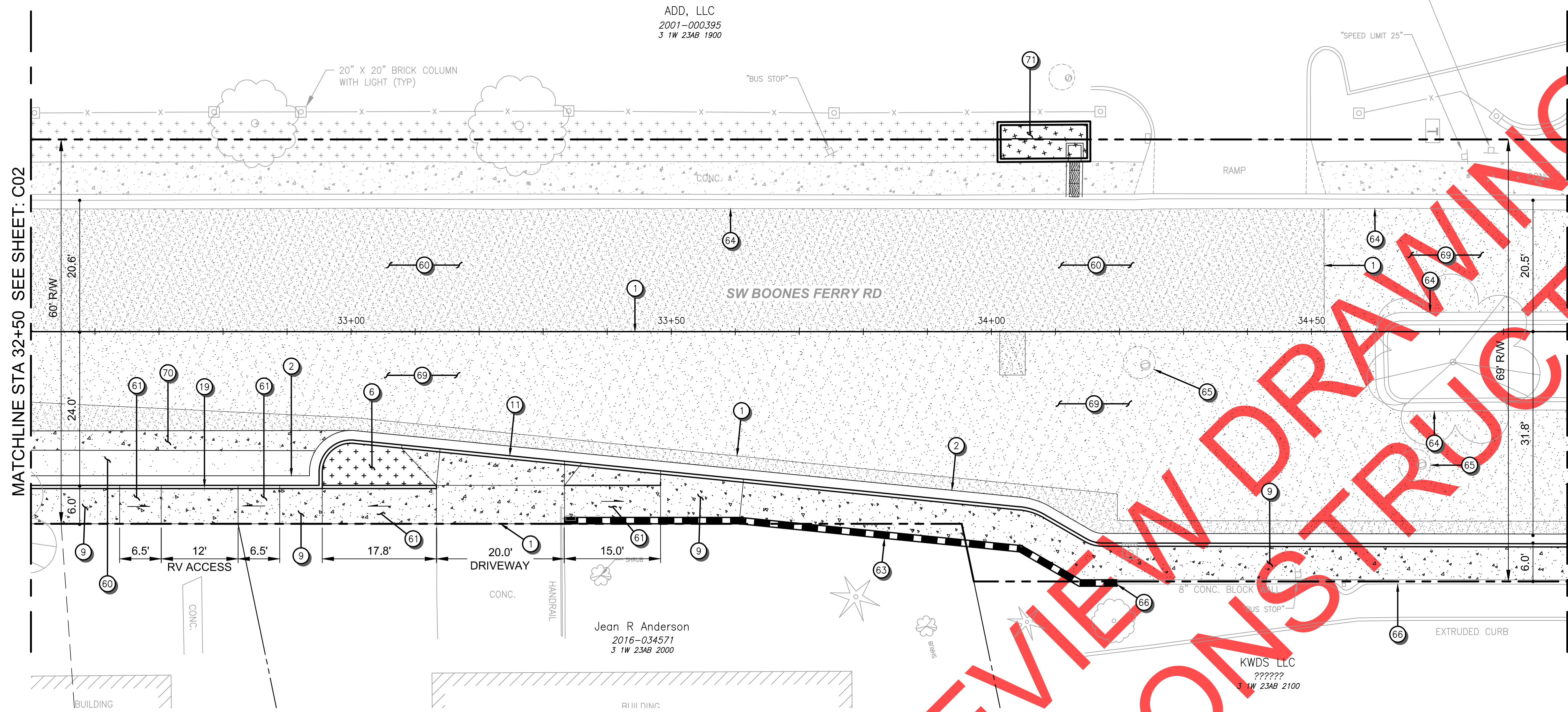
City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	MD
Checked By	MS

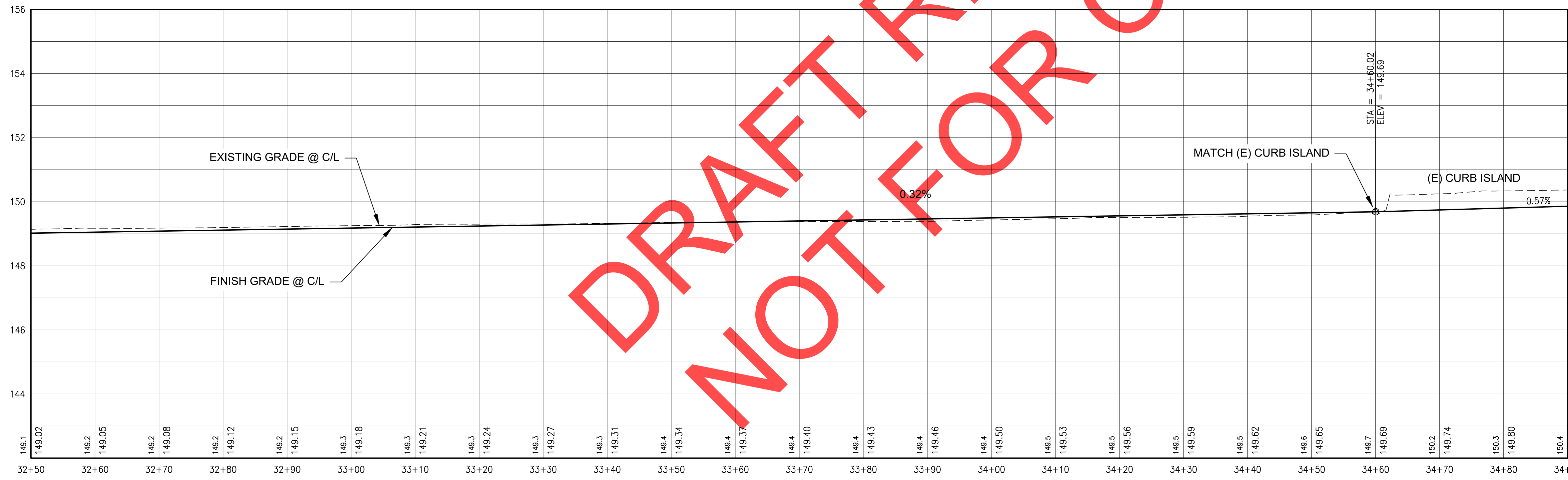
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
ROADWAY - PLAN AND PROFILE  
STA 30+10 TO STA 32+50

CIP #	4196
PROJECT #	2017-02-001
	C02
	157 of 211

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-08-C03.dwg, 2/1/2019 12:11:40 PM, DWG To PDF.pc3



- CONSTRUCTION NOTES**
- SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK.
  - ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
  - LANDSCAPE AREA SEE "L" SHEETS
  - CONCRETE SIDEWALK. SEE CITY DETAIL RD-1075 ON SHEET DT01.
  - COMMERCIAL DRIVEWAY - TYPE I. SEE CITY DETAIL RD-1095 ON SHEET DT02.
  - MODIFIED CONCRETE CURB AND GUTTER. SEE DETAIL ON SHEET DT01.
  - CONSTRUCT FULL-DEPTH ASPHALT ROADWAY. SEE DETAIL ON SHEET DT01.
  - CONCRETE RAMP, SEE DETAIL ON SHEET DT02.
  - RETAINING WALL DETAIL XXX <<EASEMENT REQUIRED>>
  - MATCH EXTG CURB AND GUTTER.
  - ADJUST EXTG MANHOLE RIM TO MATCH FG.
  - PROTECT AND MATCH EXTG BLOCK WALL.
  - RESURFACE ASPHALT ROADWAY. SEE DETAIL DT15.
  - INSTALL VALLEY GUTTER. SEE SHT DT14.
  - FILTRATION PLANTER. SEE "SD" SHEETS FOR DETAILS.



- GENERAL SHEET NOTES**
- BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
  - SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
  - SEE STORMWATER "SD" PLANS FOR RELATED WORK AT THIS LOCATION.
  - SEE LANDSCAPE "L" PLANS FOR RELATED WORK AT THIS LOCATION.

10 0 5 10 20  
SCALE PLAN SCALE VERT SCALE: 1" = 2' FEET

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REVISIONS

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: SRB  
Drawn By: MD  
Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
ROADWAY - PLAN AND PROFILE  
STA 32+50 TO STA 34+90

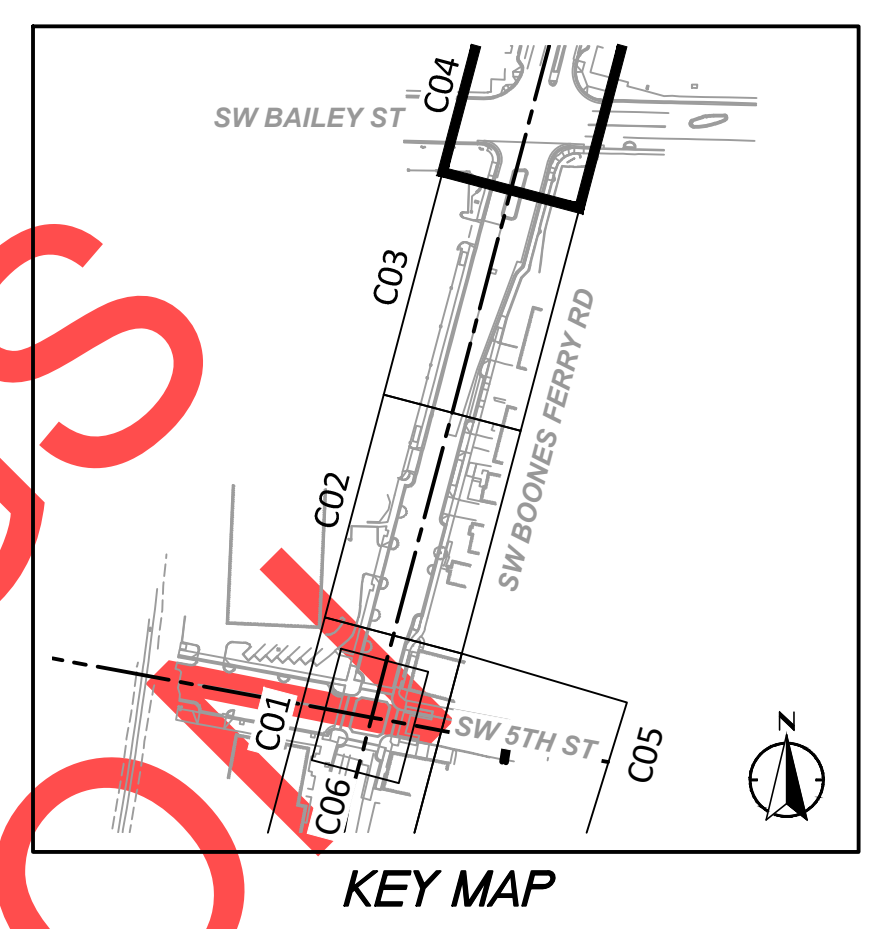
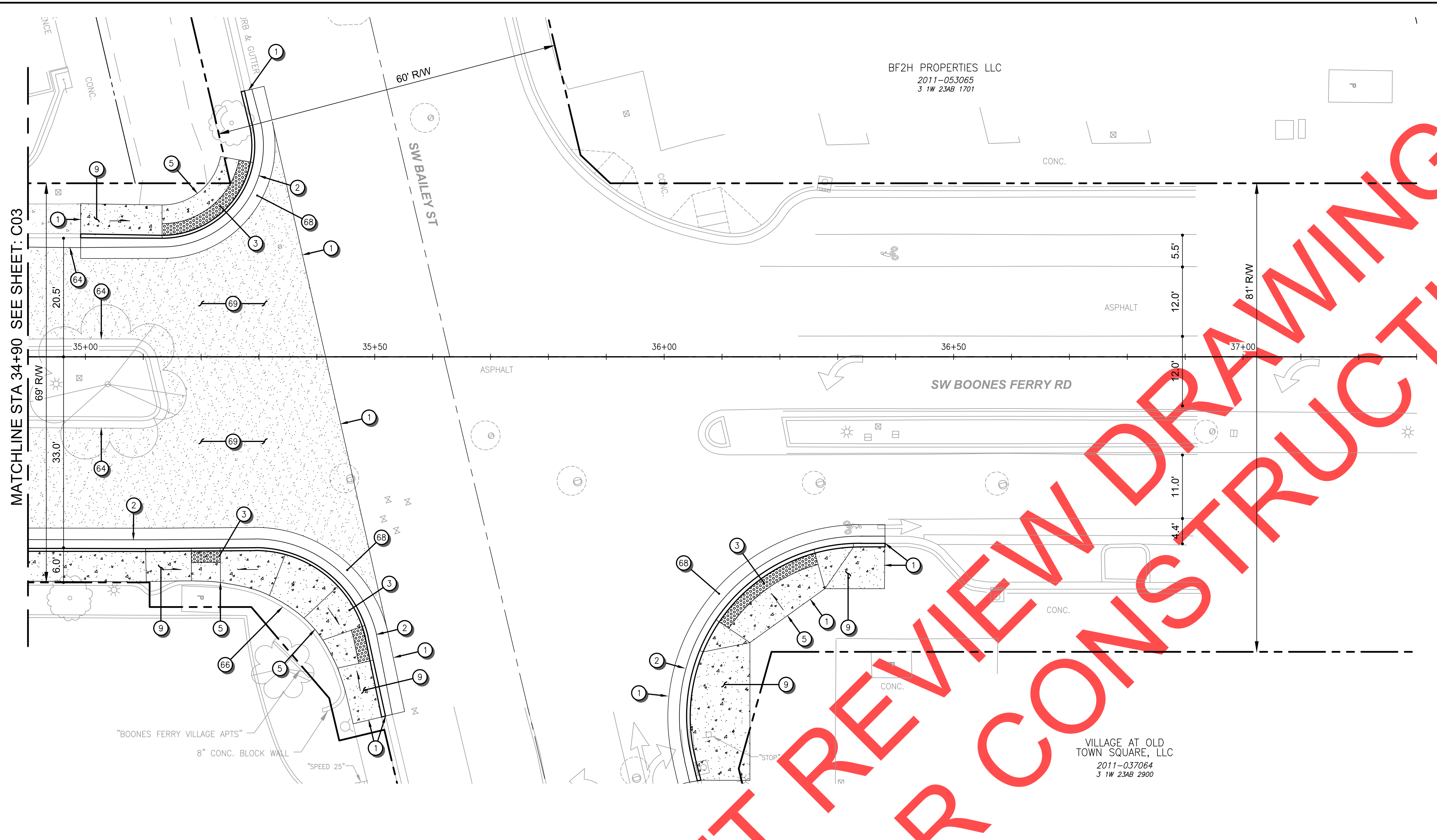
CIP # 4196  
PROJECT # 2017-02-001  
C03  
158 of 211

DRAFT FOR REVIEW ONLY NOT FOR CONSTRUCTION

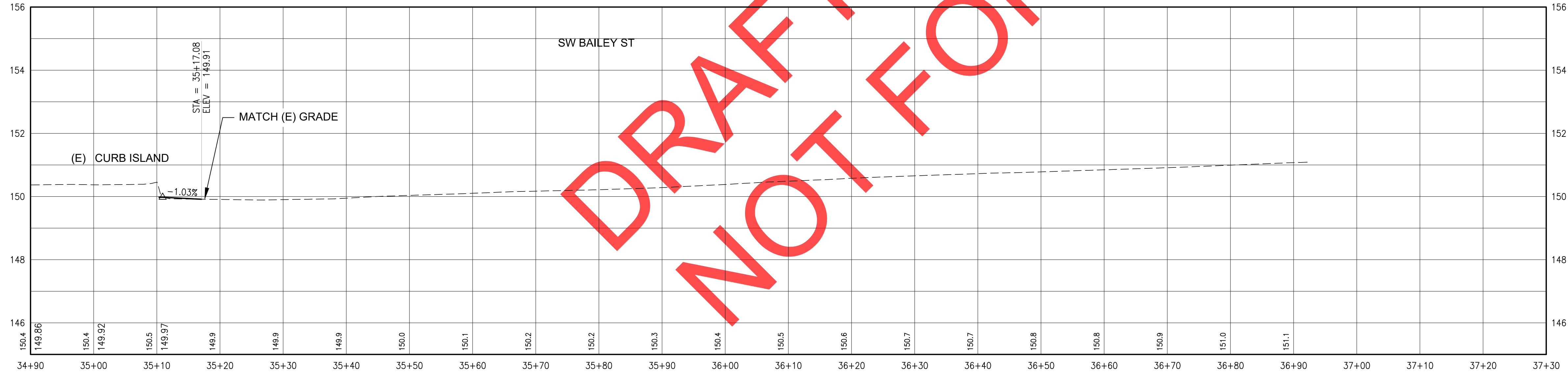
100% PLANS - NOT FOR CONSTRUCTION



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- CONSTRUCTION NOTES**
- 1 SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK.
  - 2 ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
  - 3 DETECTABLE WARNING SURFACE. SEE CITY DETAIL RD-1125 ON SHEET DT02.
  - 5 DIRECTIONAL ADA RAMP. SEE DETAILS ON SHEETS DT02
  - 9 CONCRETE SIDEWALK. SEE CITY DETAIL RD-1075 ON SHEET DT01.
  - 64 MATCH EXTG CURB AND GUTTER.
  - 66 PROTECT EXTG BLOCK WALL.
  - 68 ASPHALT PATCH. SEE CITY DETAIL RD-1170
  - 69 RESURFACE ASPHALT ROADWAY. SEE DETAIL S-2145 ON SHT DT06.



- GENERAL SHEET NOTES**
1. BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
  2. SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
  3. SEE STORMWATER "SD" PLANS FOR RELATED WORK AT THIS LOCATION.
  4. SEE LANDSCAPE "L" PLANS FOR RELATED WORK AT THIS LOCATION.

REVISIONS

NO.	DESCRIPTION

City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	EA/MD
Checked By	MS

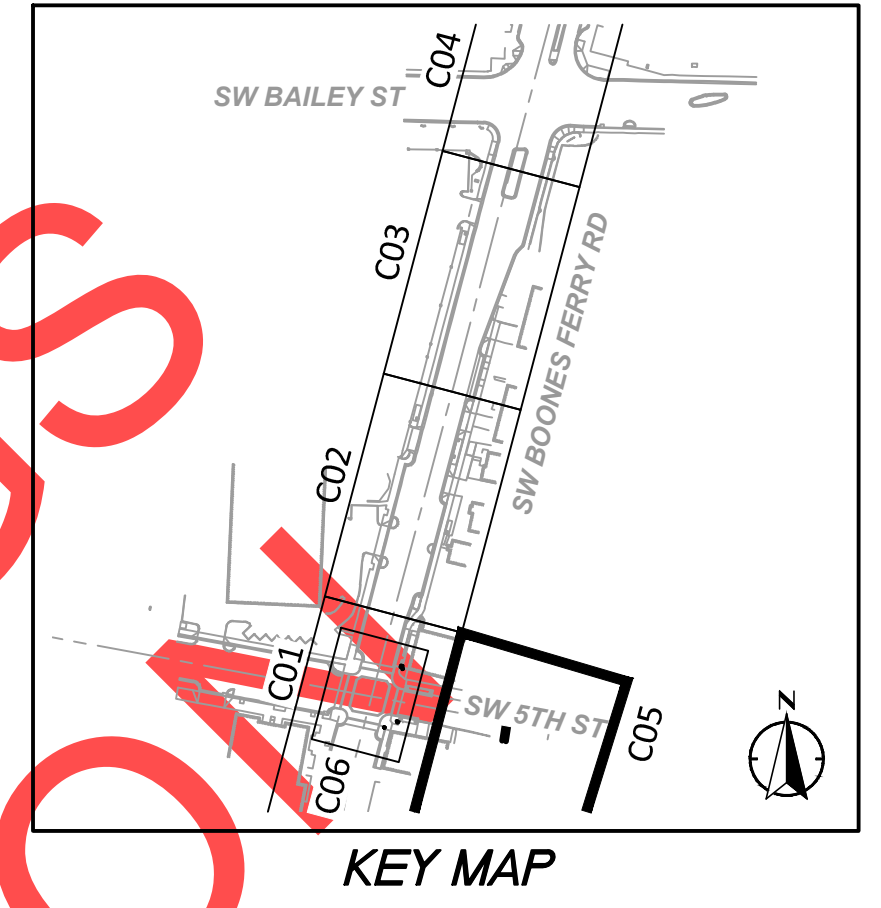
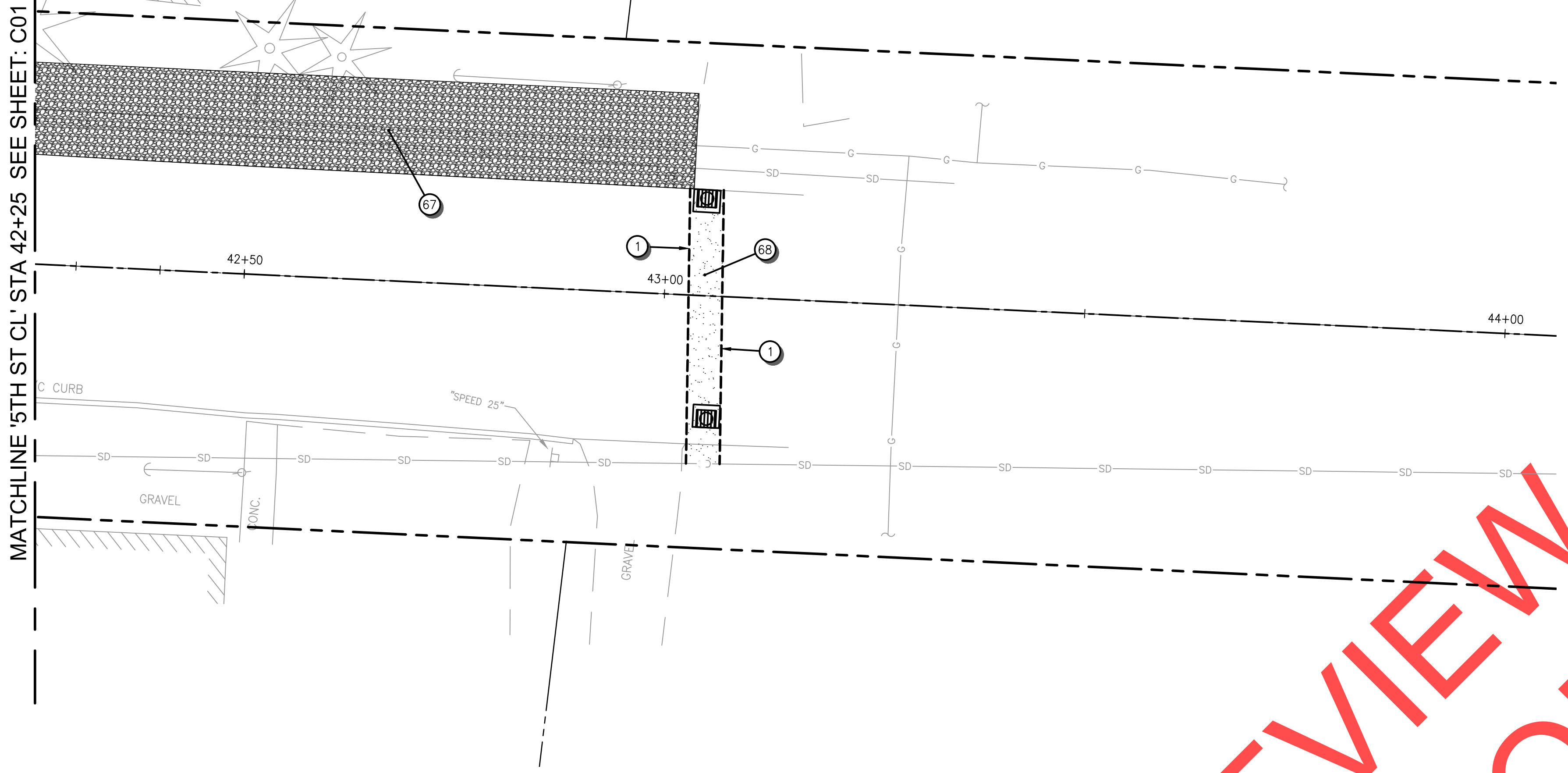
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 ROADWAY - PLAN AND PROFILE  
 STA 34+90 TO END

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 PORTLAND, OR 97214  
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CIP #	4196
PROJECT #	2017-02-001
	C04
	159 of 211

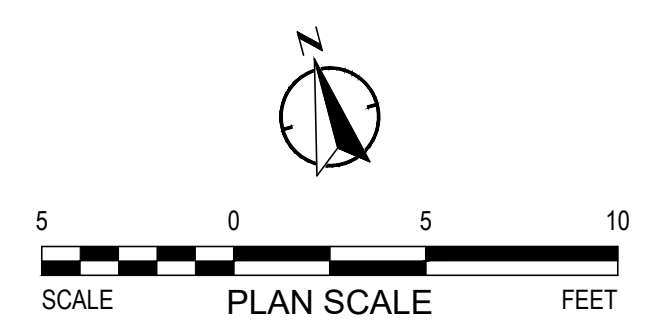
100% PLANS - NOT FOR CONSTRUCTION

DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES**
- ① SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK. EXISTING ASPHALT TO BE GROUND AND OVERLAYED.
  - ② ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
  - ⑥7 ADD GRAVEL, MATCH EXTG ELEV. SEE "L" SHEETS FOR DETAILS.
  - ⑥8 ASPHALT PATCH. SEE CITY DETAIL RD-1170

- GENERAL SHEET NOTES**
- 1. BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
  - 2. SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
  - 3. SEE STORMWATER "SD" PLANS FOR RELATED WORK AT THIS LOCATION.
  - 4. SEE LANDSCAPE "L" PLANS FOR RELATED WORK AT THIS LOCATION.



REVISIONS

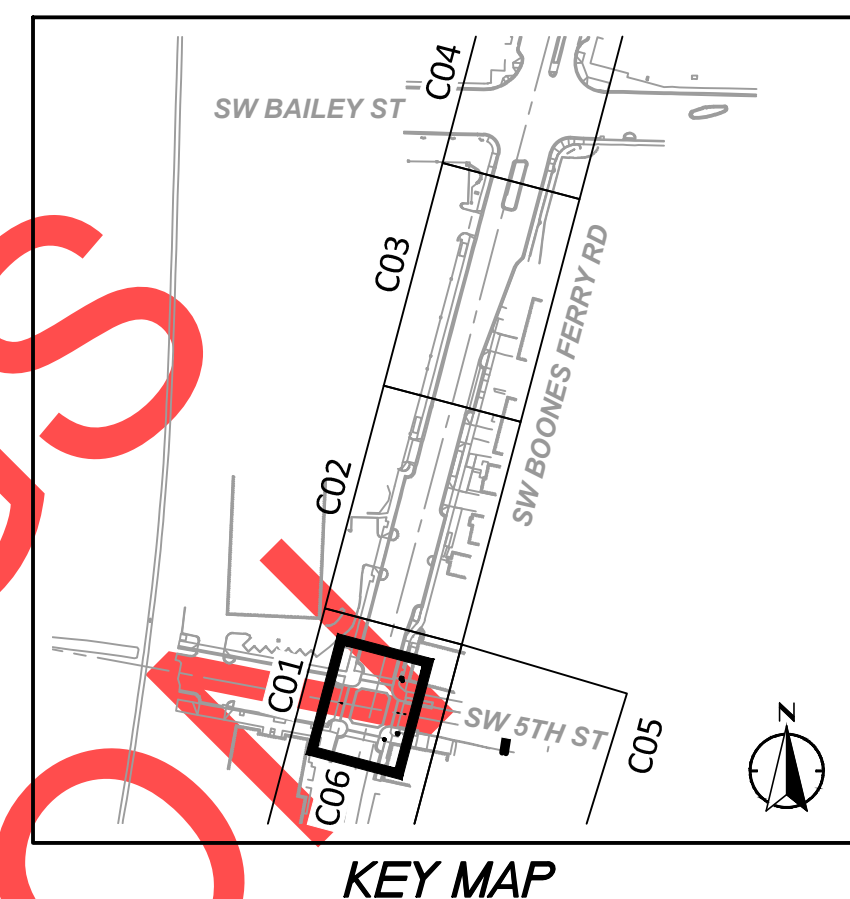
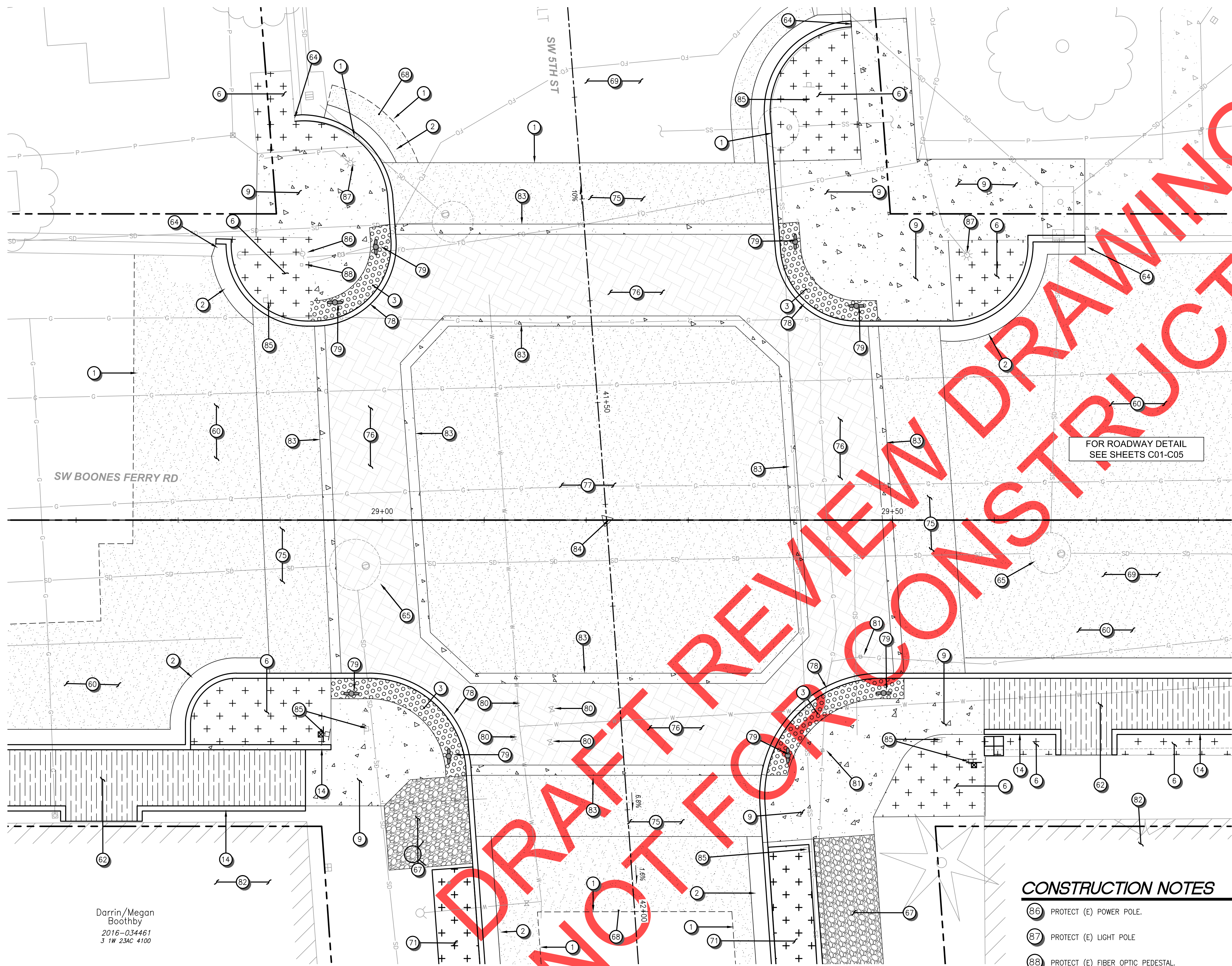
City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: 1"=5'  
Designed By: SRB  
Drawn By: MD  
Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
RAISED INTERSECTION  
PARTIAL ROADWAY PLAN

CIP # 4196  
PROJECT # 2017-02-001  
C05  
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KEY MAP

**CONSTRUCTION NOTES**

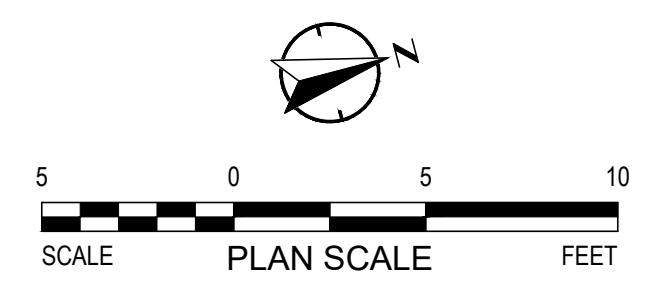
- 1 SAWCUT AND MATCH EXISTING ASPHALT, CONCRETE CURB, AND/OR SIDEWALK. EXISTING ASPHALT TO BE GROUND AND OVERLAYED.
- 2 ASPHALT STREET, CURB & GUTTER. SEE CITY DETAIL RD-1055 ON SHEET DT01.
- 3 DETECTABLE WARNING SURFACE. SEE CITY DETAIL RD-1125 ON SHEET DT02.
- 6 LANDSCAPE AREA SEE SHEETS "L" SHEETS.
- 9 CONCRETE SIDEWALK. SEE CITY DETAIL RD-1075 ON SHEET DT01.
- 14 MODIFIED CONCRETE CURB. SEE DETAIL ON SHEET DT01
- 60 CONSTRUCT FULL-DEPTH ASPHALT ROADWAY, SEE DETAIL DT01.
- 62 UNIT PAVERS, FROM STA 28+52 TO STA 28+93, FROM STA 29+59 TO STA 29+99. SEE DETAIL ON SHEET DT13.
- 64 MATCH EXTG CURB AND GUTTER.
- 65 ADJUST EXTG MANHOLE RIM TO MATCH FG.
- 67 ADD GRAVEL, MATCH EXTG ELEV. SEE "L" SHEETS FOR DETAILS.
- 68 ASPHALT PATCH. SEE CITY DETAIL RD-1170
- 71 FILTRATION PLANTER. SEE "SD" SHEETS FOR DETAILS.
- 75 ASPHALT RAMP, SEE DETAIL ON SHT DT03.
- 76 WHITE COLORED CONCRETE (CROSSWALK LINES). CANYON COLORED CONCRETE (CROSSWALK).
- 77 RAISED INTERSECTION, SLOPED TO DRAIN, SEE SHEET DT14.
- 78 CURB FLUSH w/ INTERSECTION, SEE SHEETS CR01 AND CR02.
- 79 BOLLARD, SEE DETAIL ON SHEET DT13.
- 80 ADJUST (E) WATER VALVE CANS TO FG.
- 81 ADJUST (E) GAS VALVE CANS TO FG.
- 82 PROTECT (E) STRUCTURES & BUILDINGS.
- 83 AC TO PCC TRANSITION. SEE CITY DETAIL RD-1175.
- 84 CENTERLINE SURVEY MONUMENT. SEE CITY DETAIL RD-1190.
- 85 REMOVE, STORE AND RELOCATE (E) SIGN.

**CONSTRUCTION NOTES**

- 86 PROTECT (E) POWER POLE.
- 87 PROTECT (E) LIGHT POLE
- 88 PROTECT (E) FIBER OPTIC PEDESTAL.

PLAN  
SCALE: 1" = 5'

Darrin/Megan Boothby  
2016-034461  
3 1W 23AC 4100



100% PLANS - NOT FOR CONSTRUCTION

REVISIONS

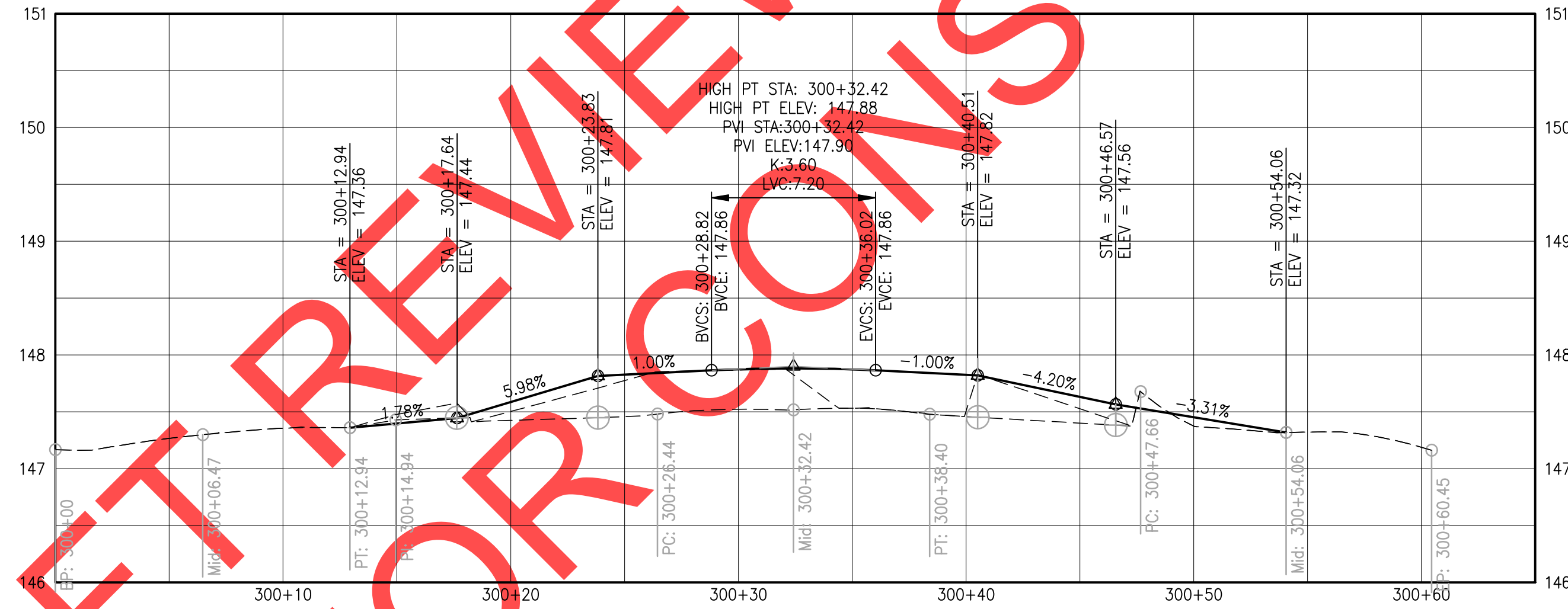
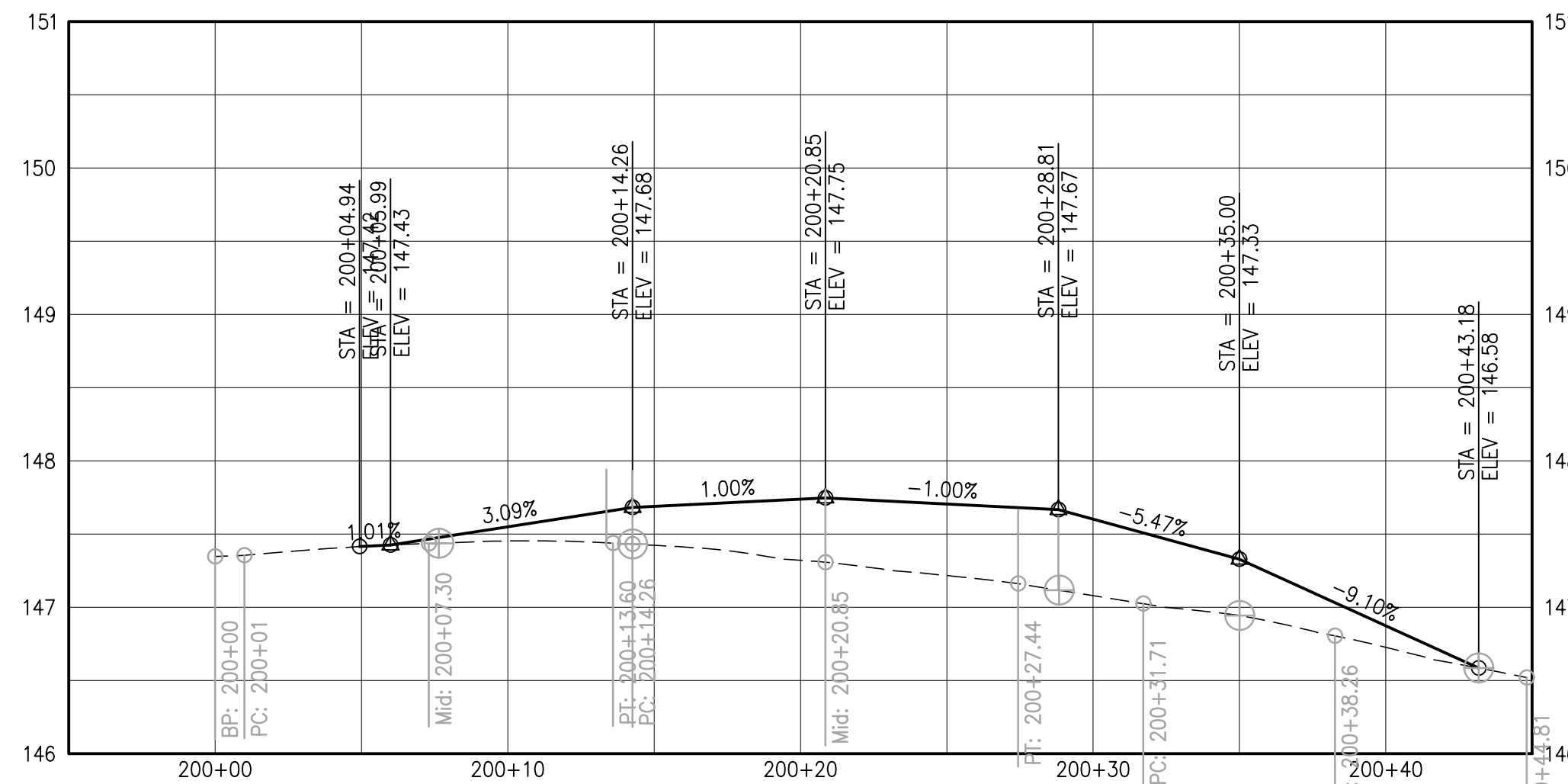
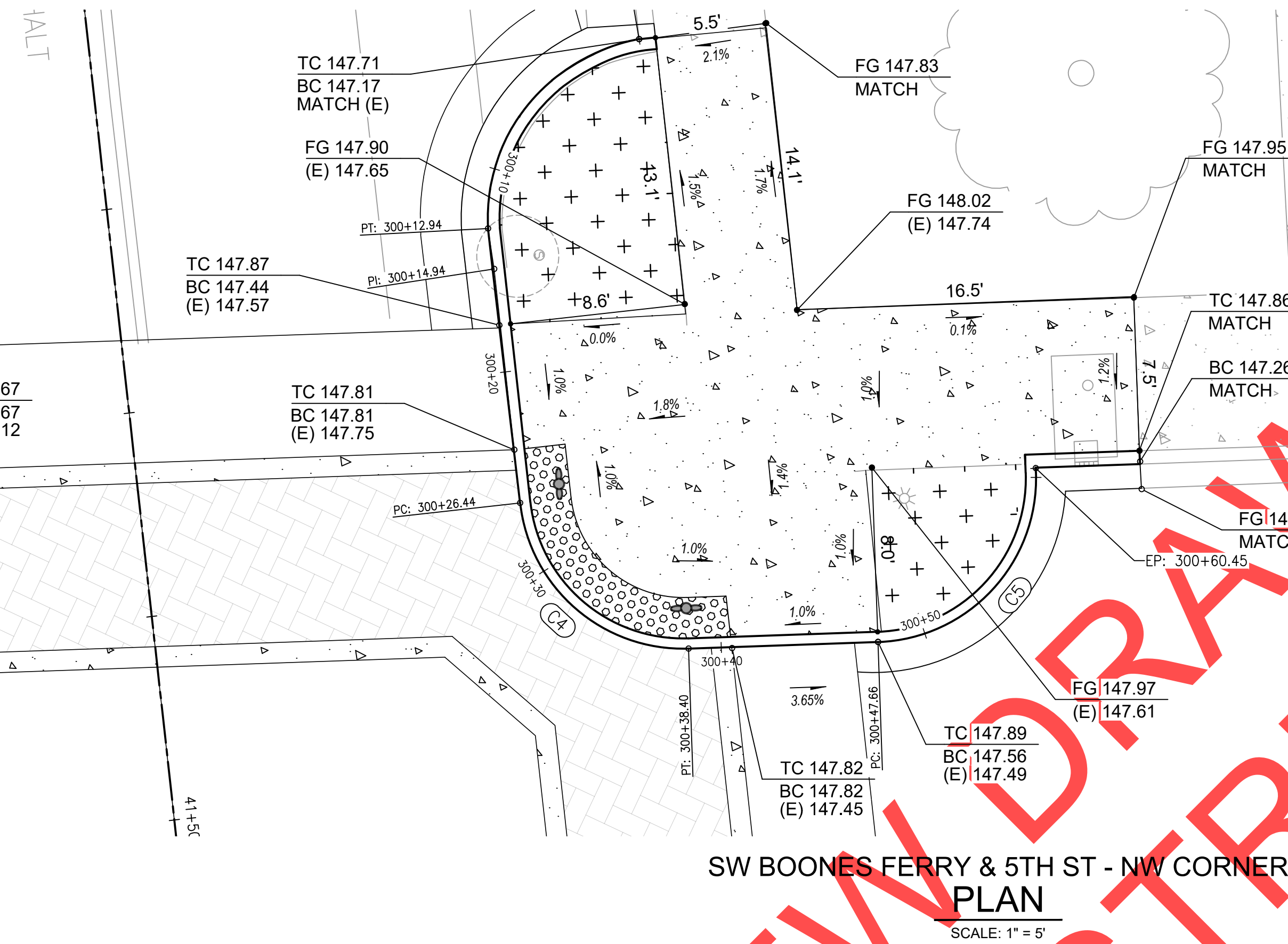
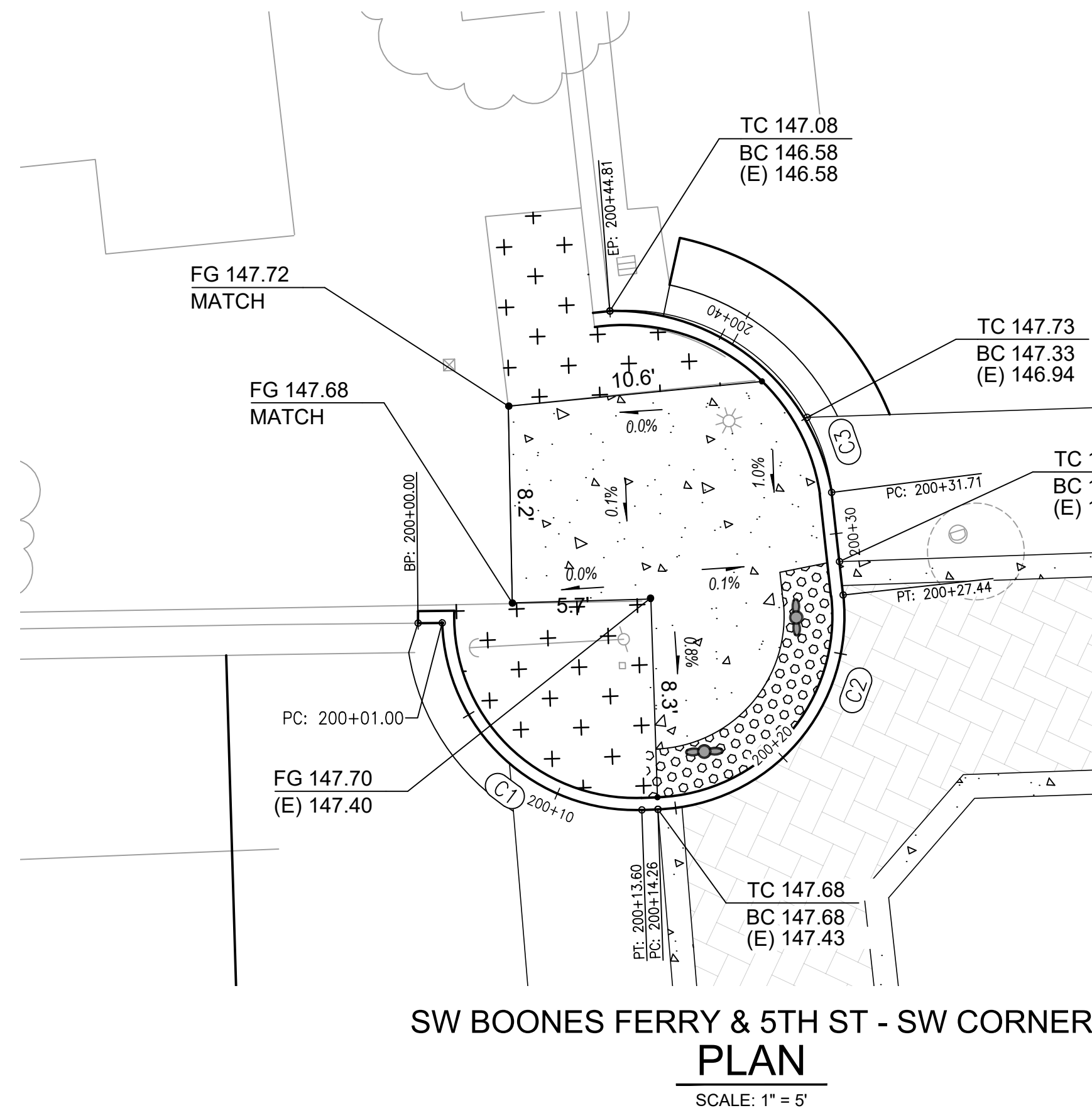
City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: 1"=5'  
Designed By: SRB  
Drawn By: MD  
Checked By: MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
**RAISED INTERSECTION**  
**PARTIAL ROADWAY PLAN**

CIP # 4196  
PROJECT # 2017-02-001  
C06  
161 of 211

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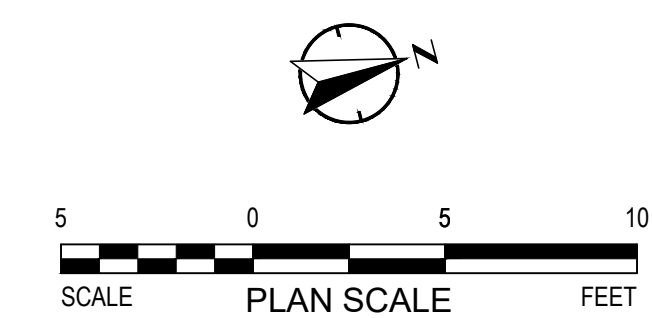


SW 5TH GUTTER PROFILE: 199+95-200+45  
Horiz. Scale: 1"=5' / Vert. Scale: 1"=1'

NW 5TH GUTTER PROFILE: 300+00-300+65  
Horiz. Scale: 1"=5' / Vert. Scale: 1"=1'

Curve Table					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	8.00	12.60	N59° 54' 41.08"E	E: 7,617,738.61 N: 603,032.36	E: 7,617,748.41 N: 603,038.04
C2	8.00	13.17	N32° 21' 53.23"W	E: 7,617,748.58 N: 603,038.68	E: 7,617,742.30 N: 603,048.59
C3	8.62	13.10	S56° 03' 10.73"W	E: 7,617,738.10 N: 603,049.37	E: 7,617,728.25 N: 603,042.74

Curve Table					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C4	8.00	11.96	N57° 38' 06.77"E	E: 7,617,752.98 N: 603,084.25	E: 7,617,762.16 N: 603,090.07
C5	8.00	12.78	N30° 57' 18.12"W	E: 7,617,764.53 N: 603,099.03	E: 7,617,758.63 N: 603,108.86



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Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date	1 February 2019
Scale	1"=5'
Designed By	SRB
Drawn By	MD
Checked By	MS

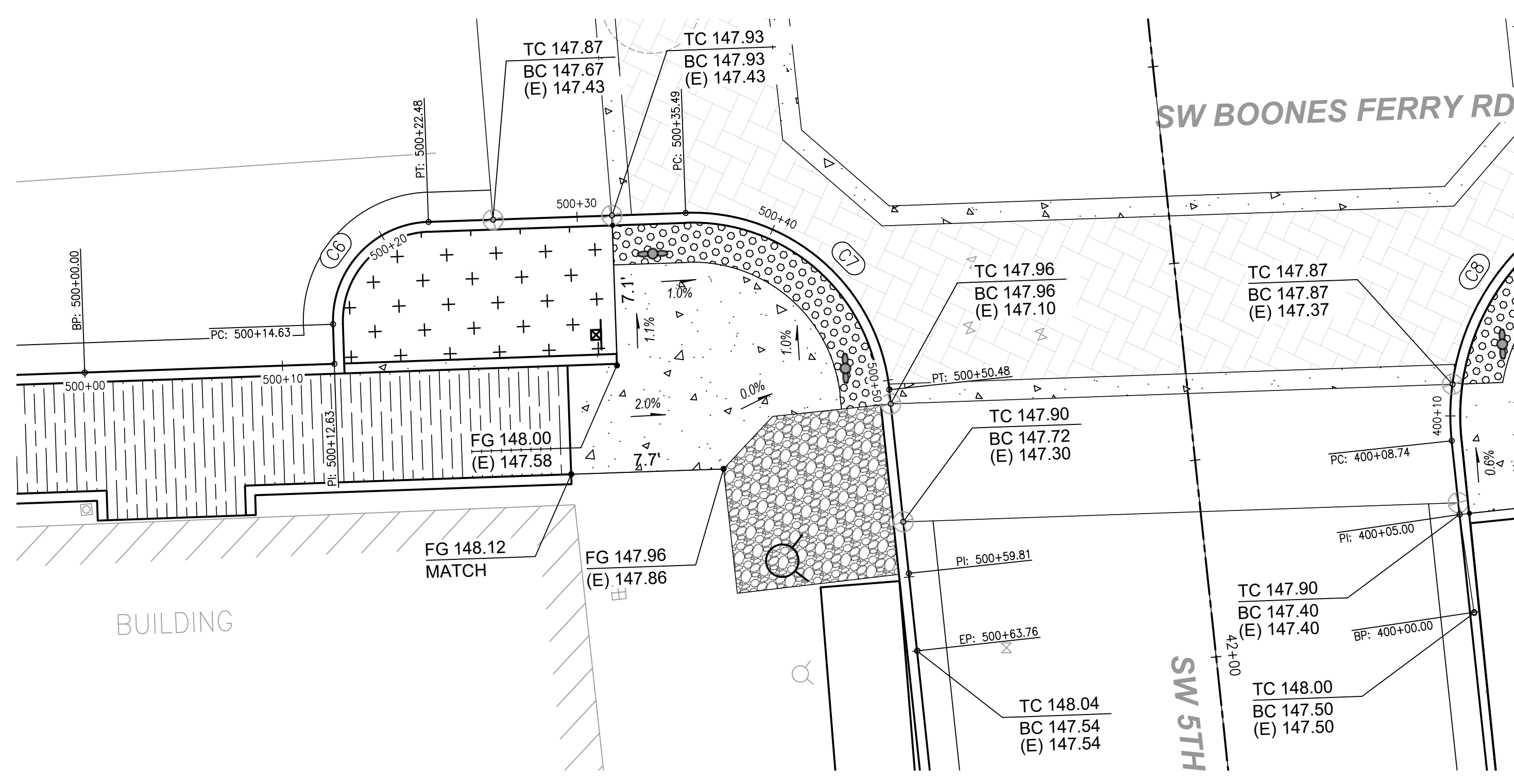
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**SW BOONES FERRY RD - 5TH TO BAILEY**  
**CURB RAMP DETAILS**  
**SW BOONES FERRY & 5TH RD SW & NW CORNERS - PLAN**

CIP # 4196  
PROJECT # 2017-02-001  
CR01  
162 of 211

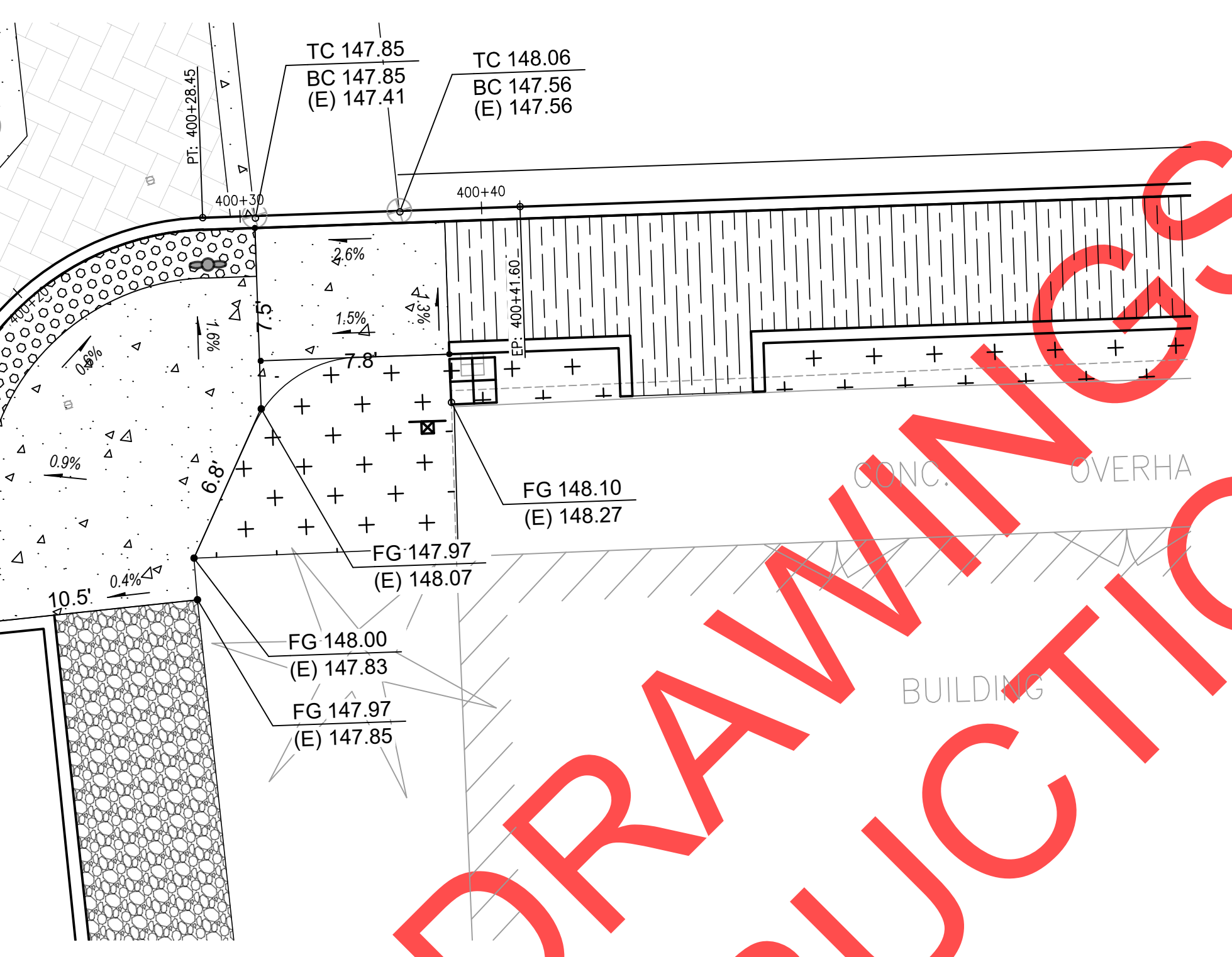
100% PLANS - NOT FOR CONSTRUCTION

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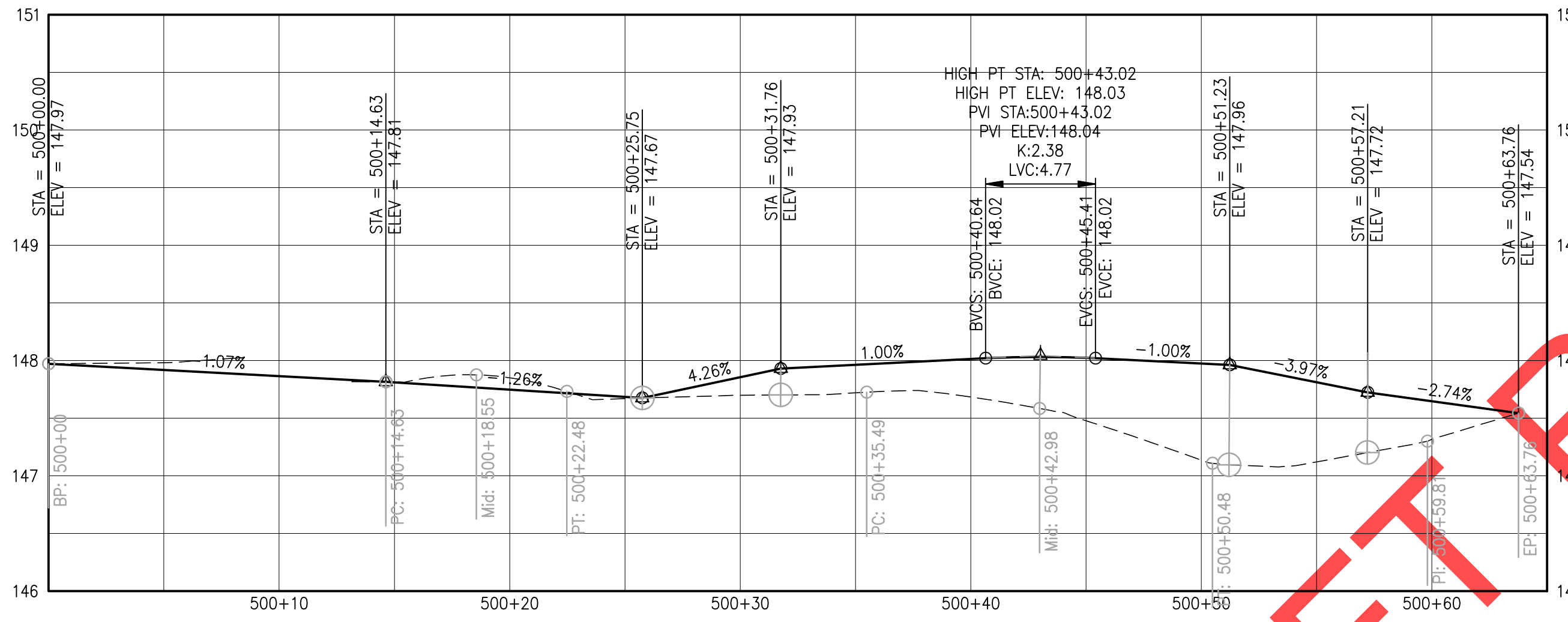
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SW BOONES FERRY & 5TH ST - SE CORNER  
PLAN  
SCALE: 1" = 5'

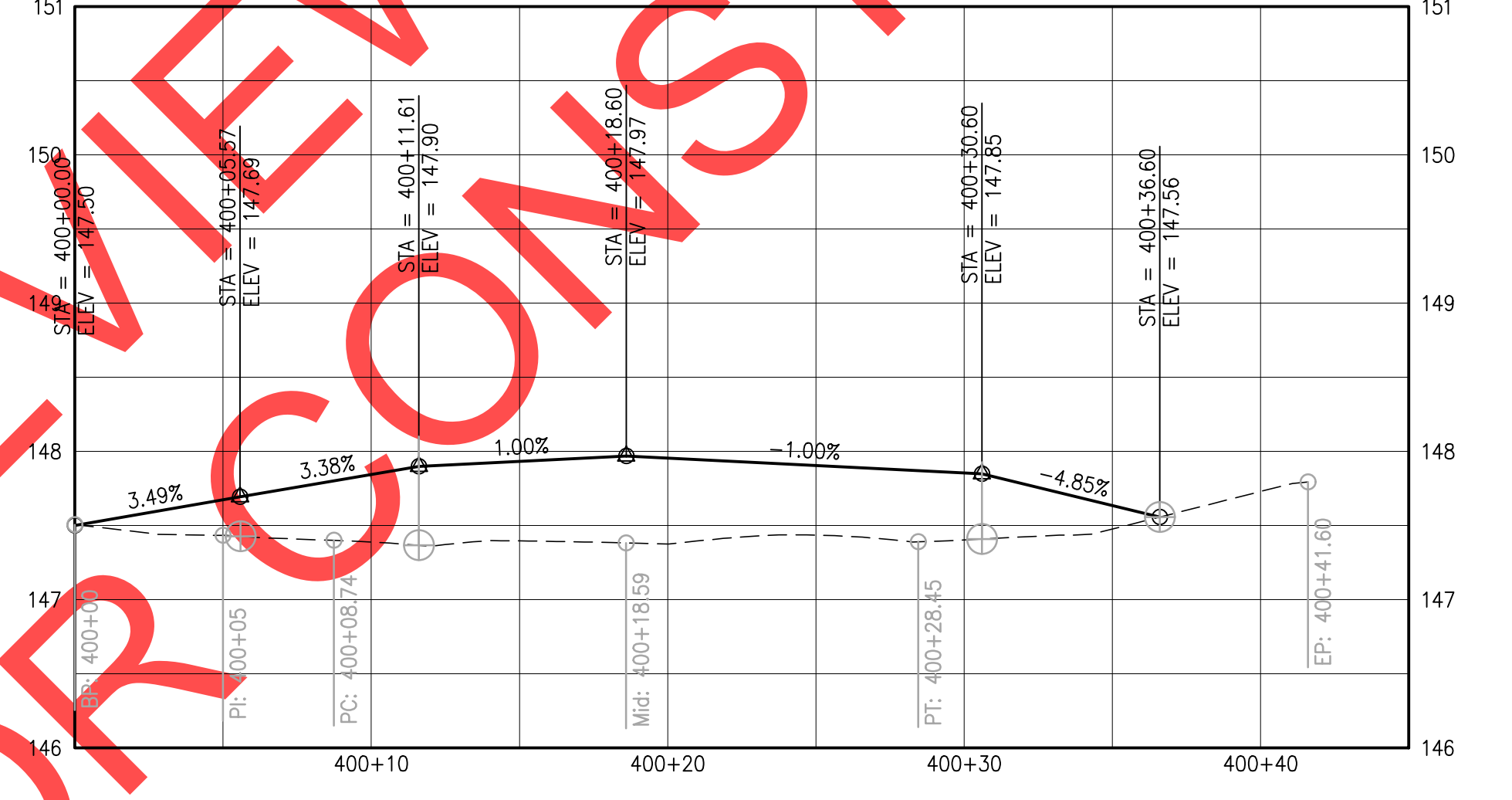


SW BOONES FERRY & 5TH ST - NE CORNER  
PLAN  
SCALE: 1" = 5'



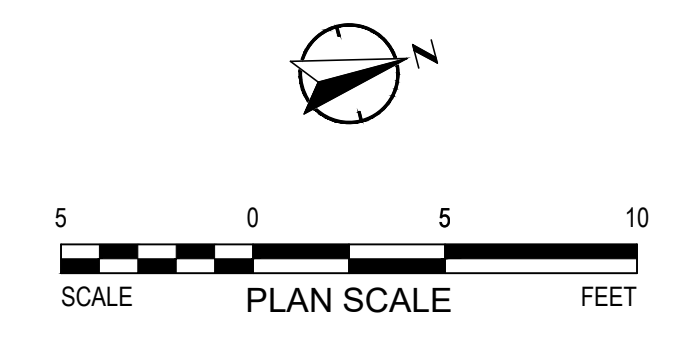
SE 5TH GUTTER PROFILE: 500+00-500+65  
Horiz. Scale: 1"=5' / Vert. Scale: 1"=1'

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C6	5.00	7.85	N30° 11' 48.59"W	E: 7,617,783.06 N: 603,016.48	E: 7,617,779.50 N: 603,022.60
C7	10.00	14.99	N57° 45' 07.27"E	E: 7,617,782.82 N: 603,035.17	E: 7,617,794.36 N: 603,042.44



NE 5TH GUTTER PROFILE: 400+00-400+45  
Horiz. Scale: 1"=5' / Vert. Scale: 1"=1'

Curve #	Radius	Length	Chord Direction	Start Point	End Point
C8	12.00	19.71	N32° 14' 52.73"W	E: 7,617,805.04 N: 603,068.92	E: 7,617,795.67 N: 603,083.77



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REVISIONS

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

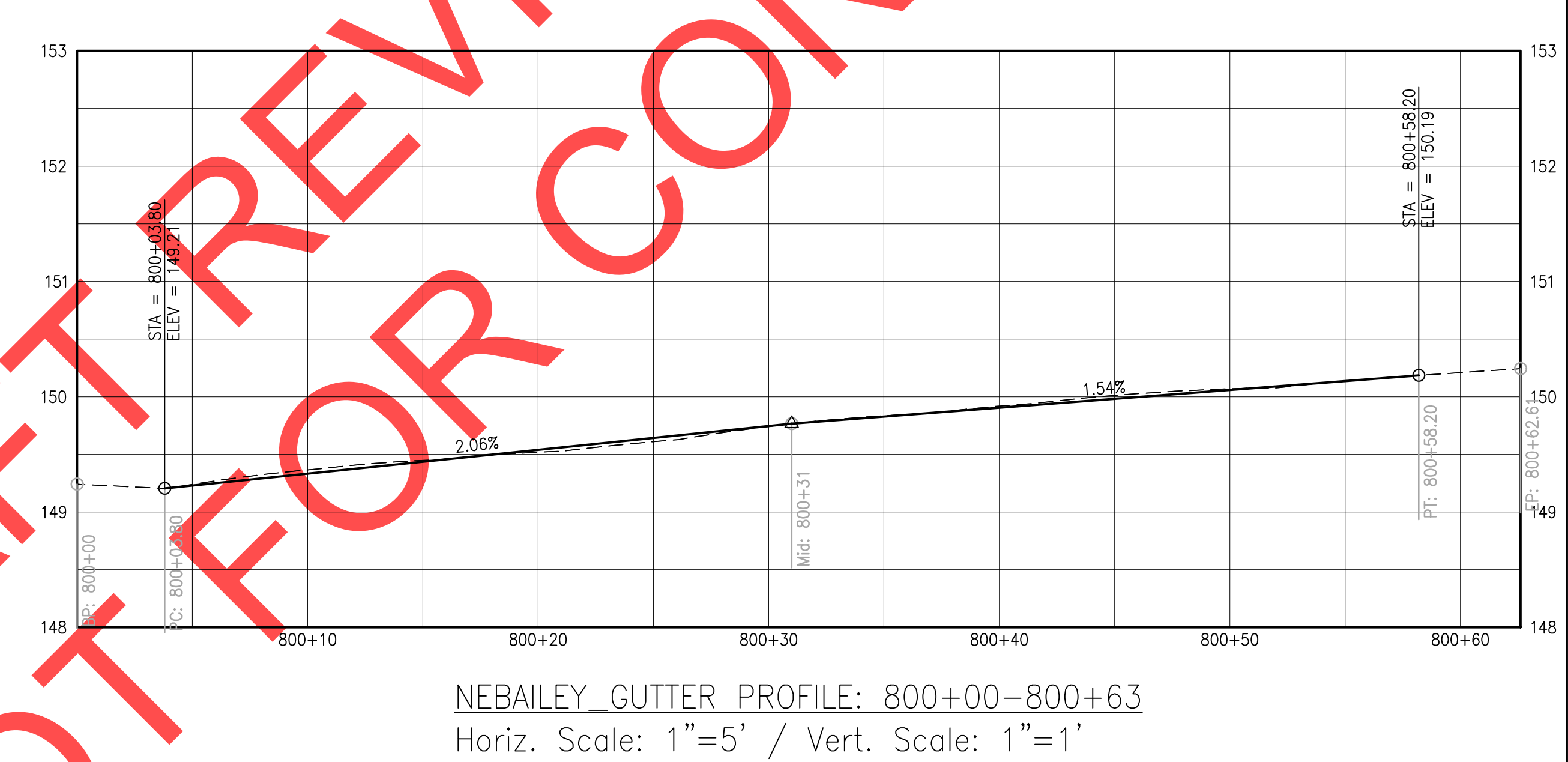
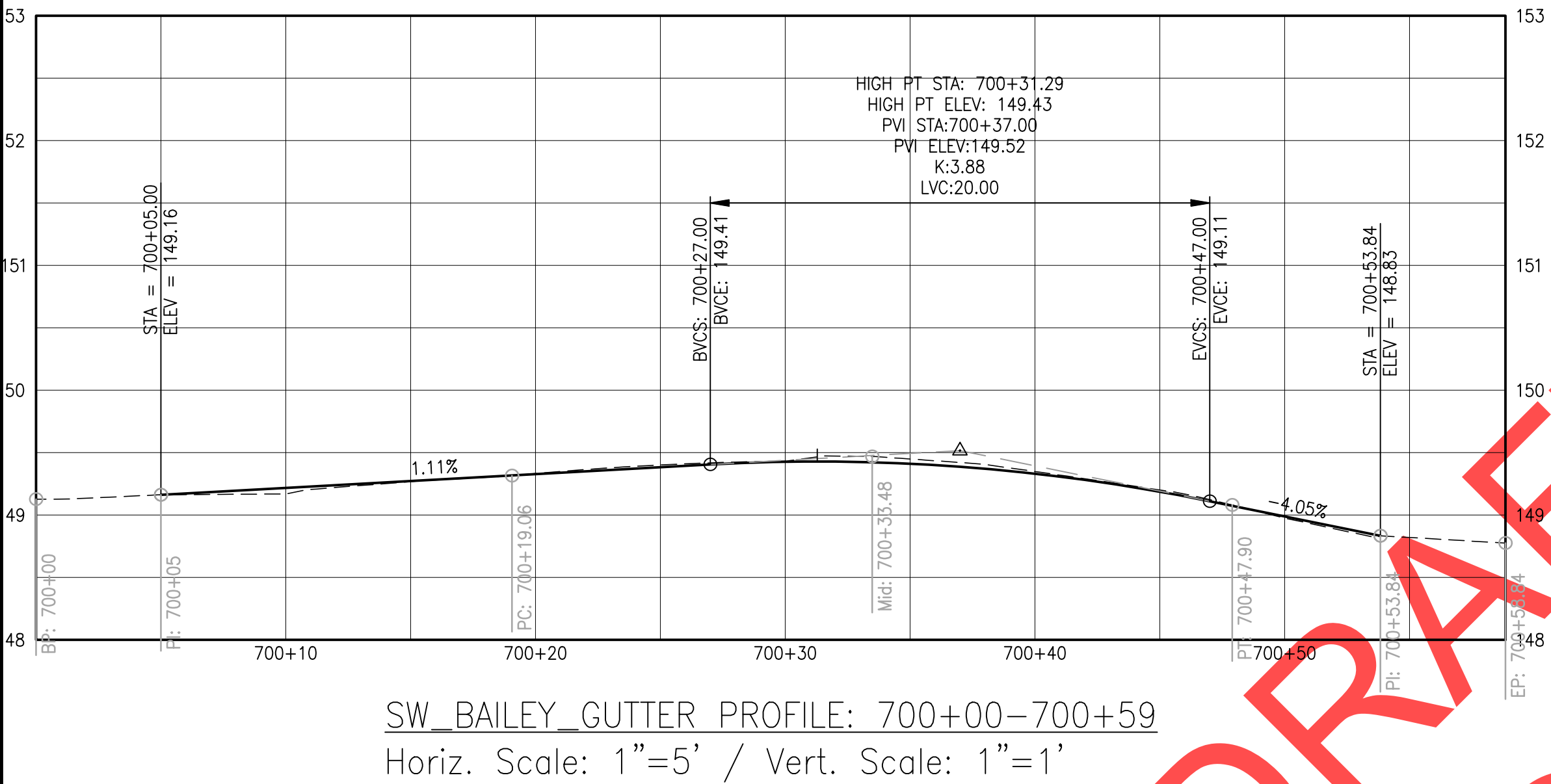
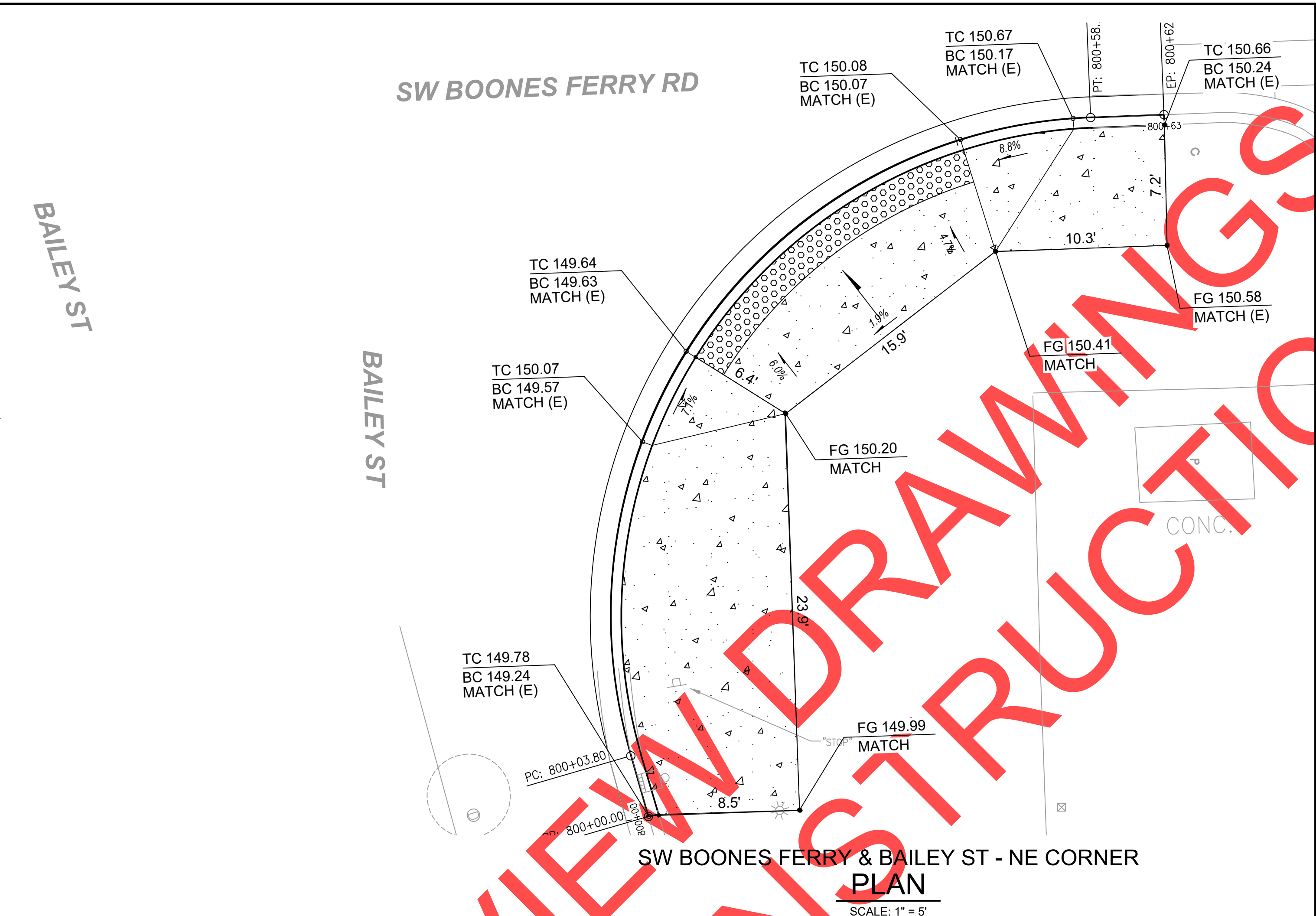
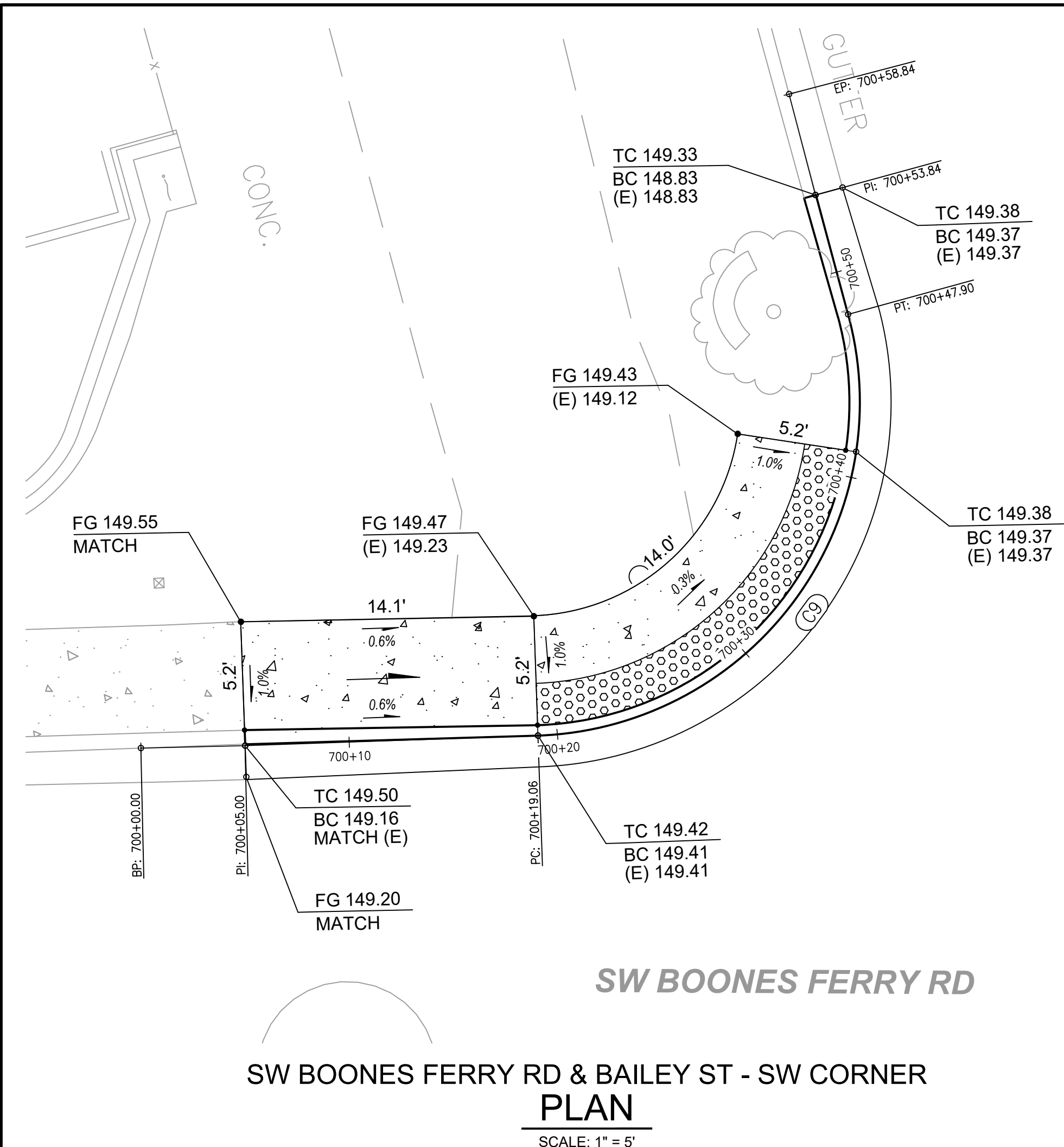
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Scale	1"=5'
Designed By	SRB
Drawn By	MD
Checked By	MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
CURB RAMP DETAILS  
SW BOONES FERRY RD & 5TH ST - SE & NE CORNERS - PLAN

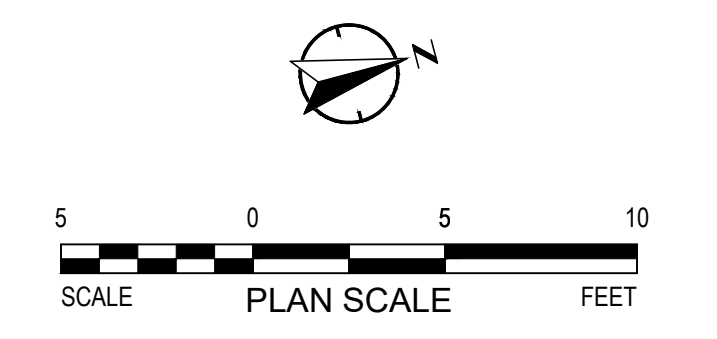
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PROJECT #	2017-02-001
	CR02
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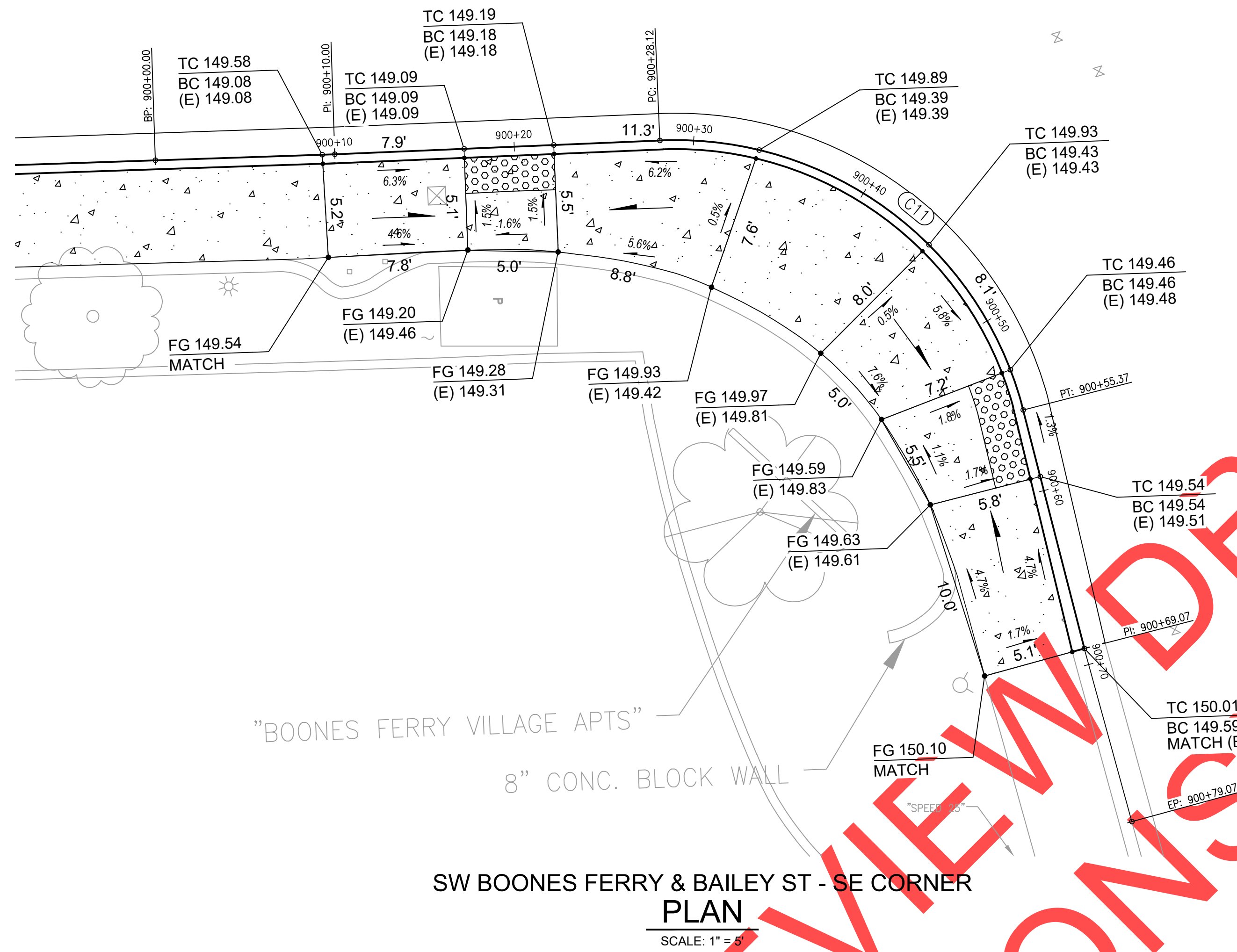
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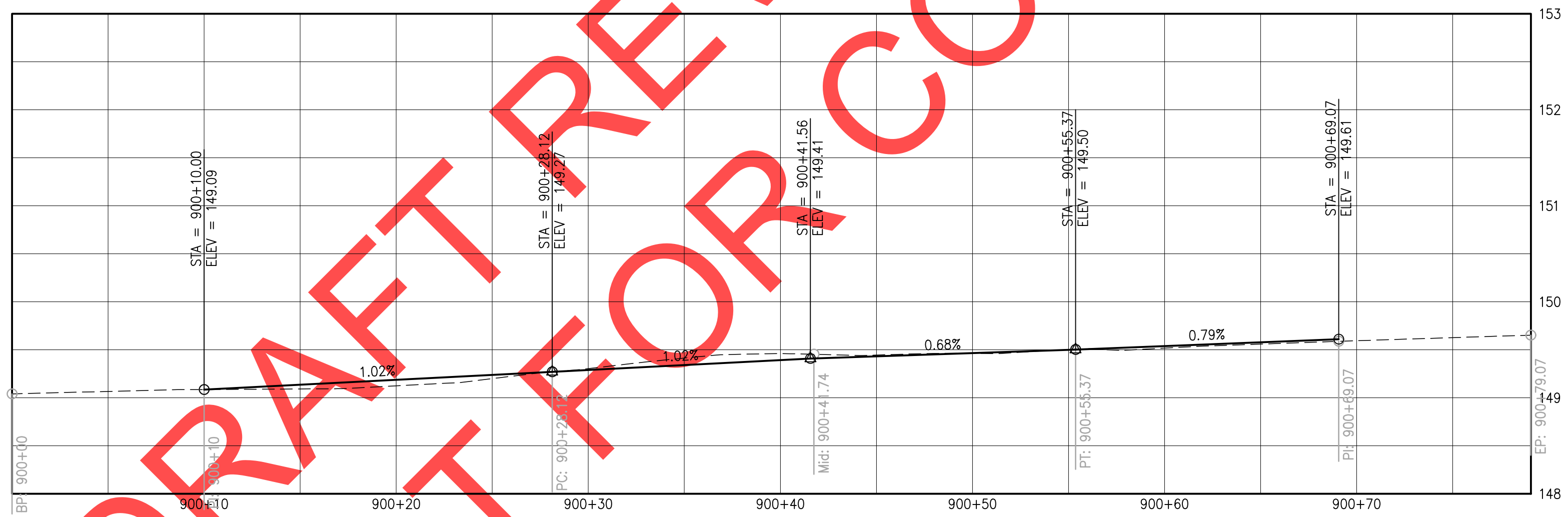
Curve Table					
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<p><b>City of Wilsonville</b> Engineering Department 29799 SW Town Center Loop E Wilsonville, OR 97070 Phone: 503-682-4960</p>	<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
<p>Date: 1 February 2019 Scale: 1"=5' Designed By: SRB Drawn By: MD Checked By: MS</p>									
<p><b>SW 5TH ST TO SW KINSMAN RD EXTENSION</b> <b>SW BOONES FERRY RD - 5TH TO BAILEY</b> <b>CURB RAMP DETAILS</b> <b>SW BOONES FERRY RD &amp; BAILEY ST - SW &amp; NE CORNER - PLAN</b></p>									
<p>CIP # 4196 PROJECT # 2017-02-001 CRO3 164 of 211</p>									

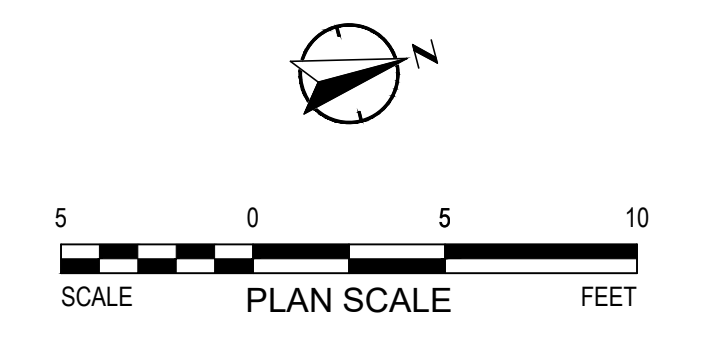


SW BOONES FERRY & BAILEY ST - SE CORNER  
**PLAN**  
 SCALE: 1" = 5'



SE BAILEY GUTTER PROFILE: 900+00-900+79  
 Horiz. Scale: 1"=5' / Vert. Scale: 1"=1'

Curve Table					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C11	20.00	27.25	N53° 22' 40.06"E	E: 7,617,961.32 N: 603,640.14	E: 7,617,981.53 N: 603,655.17



REVISIONS

City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

Date	1 February 2019
Scale	1"=5'
Designed By	SRB
Drawn By	MD
Checked By	MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 SW BOONES FERRY RD - 5TH TO BAILEY  
 CURB RAMP DETAILS  
 SW BOONES FERRY RD & BAILEY ST - SE CORNER - PLAN

CIP #	4196
PROJECT #	2017-02-004
	CRO4
	165 of 211

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**GENERAL SHEET NOTES**

1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE RW, UNLESS OTHERWISE NOTED.
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

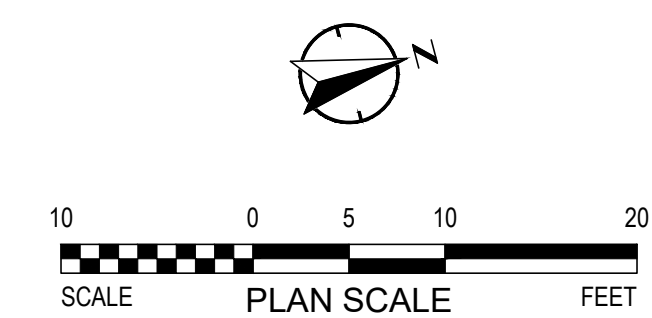
**SHEET KEYNOTES**

- 1.

**LEGEND**

- INSTALL SEDIMENT FENCE PER CITY DWG NO S-2245
- INSTALL INLET PROTECTION TYPE 4 PER CITY DWG NO S-2126
- INSTALL INLET PROTECTION TYPE 5 PER CITY DWG NO S-2127

Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	MD
Checked By	MS

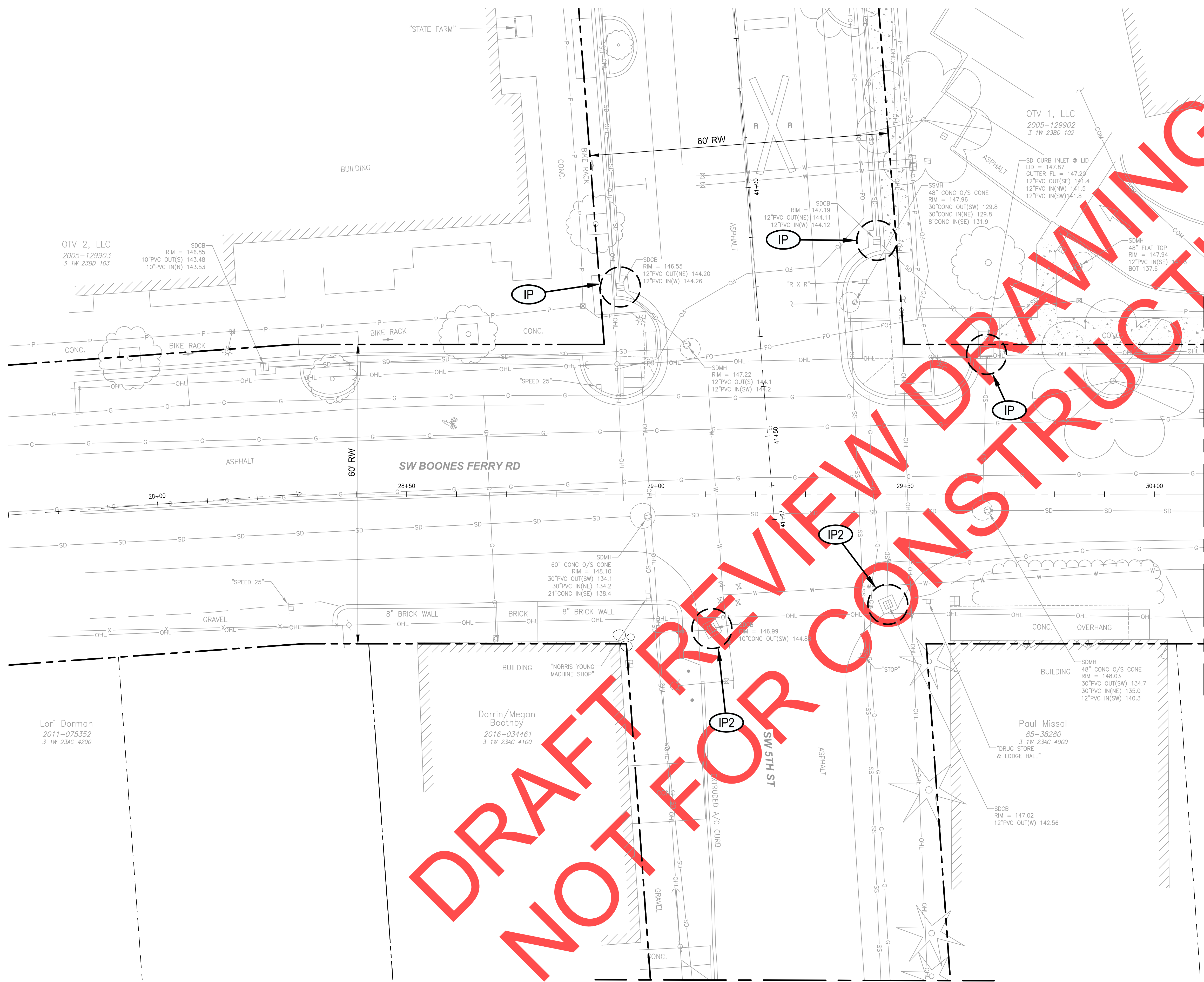


REVISIONS	

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
EROSION CONTROL PLAN  
BEGIN TO STA 30+10

CIP #	4196
PROJECT #	2017-02-001
	EC01
	166 of 211

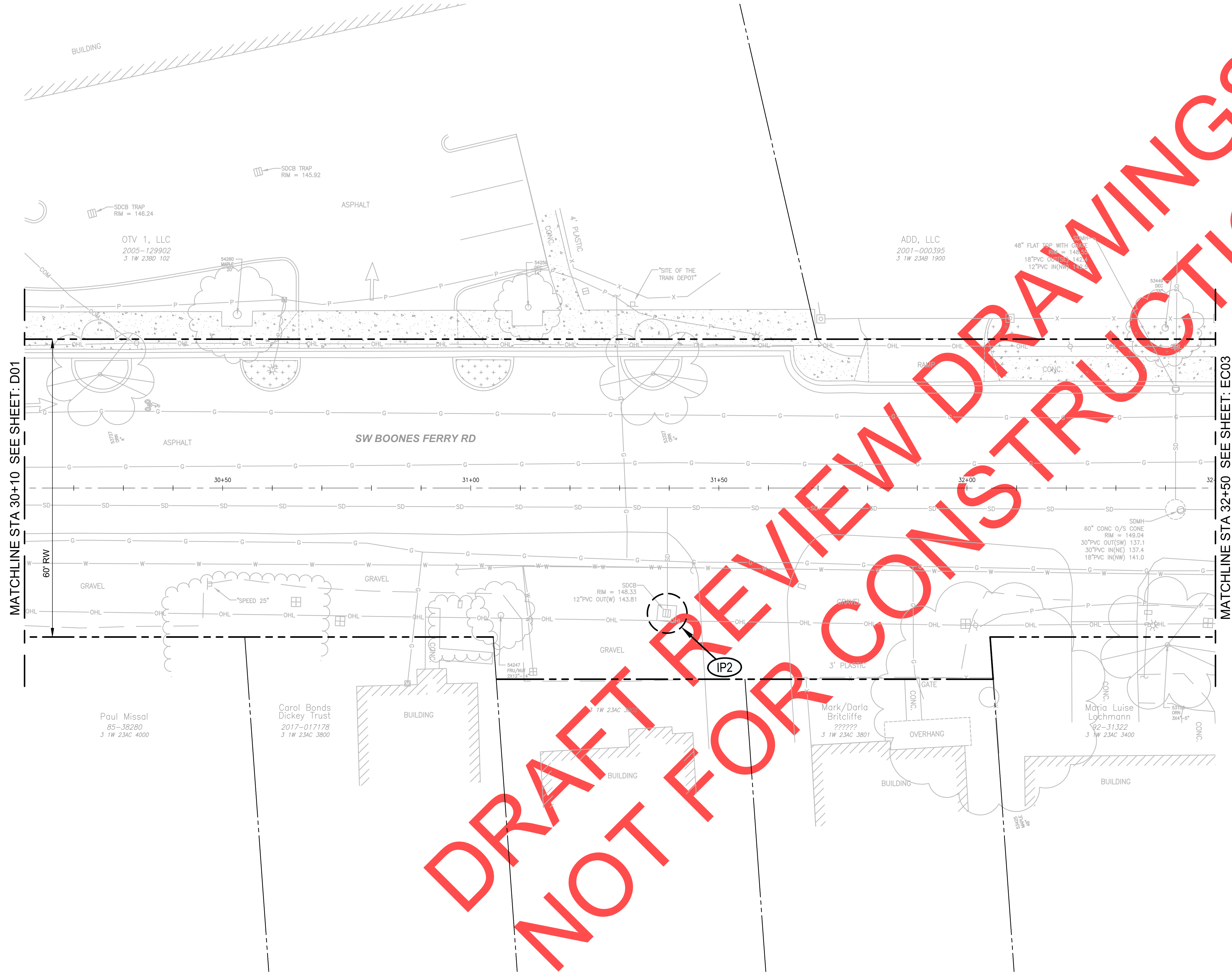


**PLAN**  
SCALE: 1" = 10'  
MATCHLINE STA 30+10 SEE SHEET: EC05

100% PLANS – NOT FOR CONSTRUCTION



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GENERAL SHEET NOTES	
1.	PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W, UNLESS OTHERWISE NOTED.
2.	PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES	
1.	

LEGEND	
(SF)	INSTALL SEDIMENT FENCE PER CITY DWG NO S-2245
(IP)	INSTALL INLET PROTECTION TYPE 4 PER CITY DWG NO S-2126
(IP2)	INSTALL INLET PROTECTION TYPE 5 PER CITY DWG NO S-2127

Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	MD
Checked By	MS

REVISIONS	
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 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
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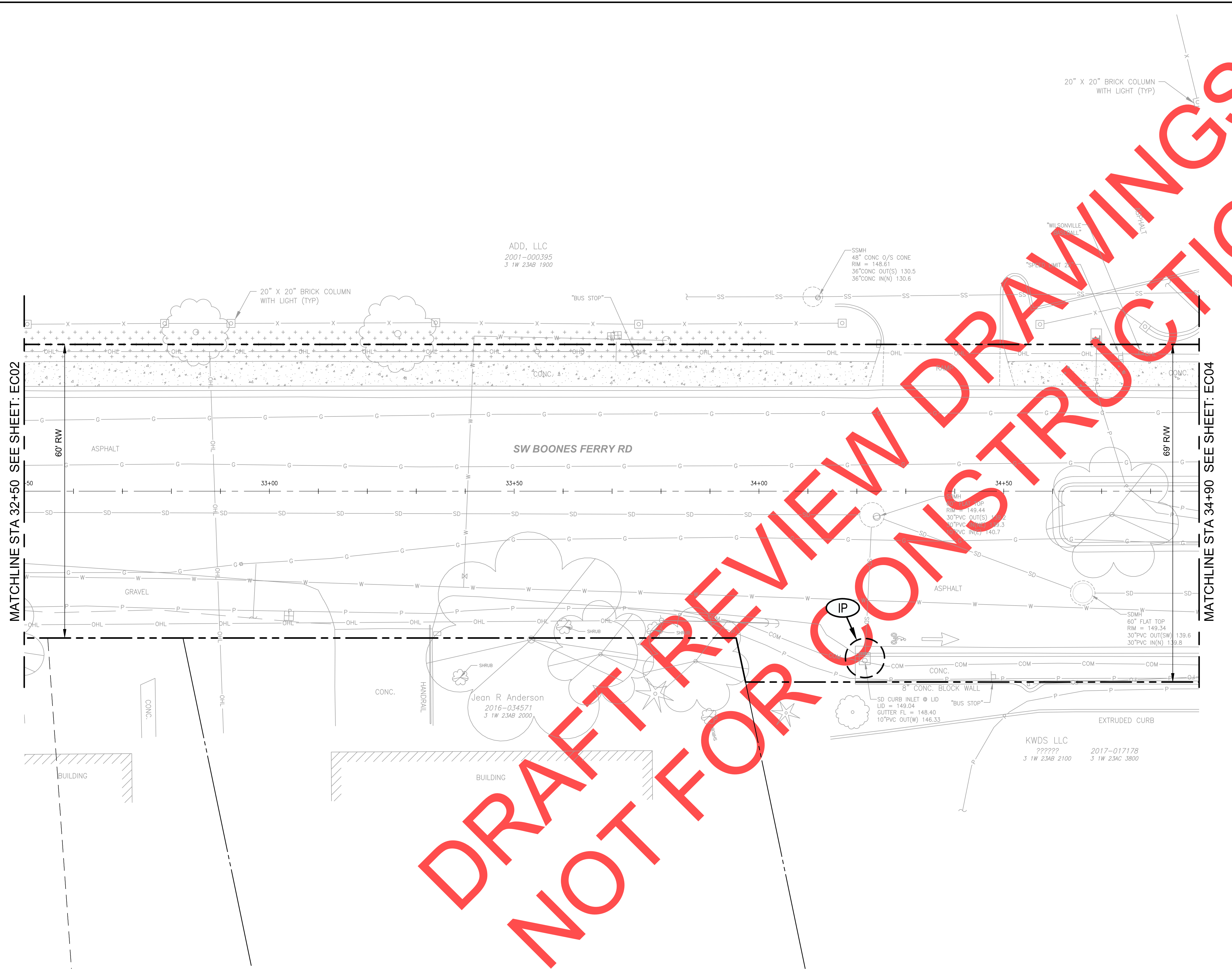
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 EROSION CONTROL PLAN  
 STA 30+10 TO STA 32+50

PLANNING + DESIGN  
 www.altaplanning.com  
 Alta Planning + Design, Inc.  
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 PORTLAND, OR 97214  
 p: 503.230.9862

CIP #	4196
PROJECT #	2017-02-001
	EC02
	167 of 211

**PLAN**  
SCALE: 1" = 10'

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-18-EC03.dwg, 2/1/2019 12:19:25 PM, DWG To PDF.pc3



DRAFT REVIEW FOR CONSTRUCTION

GENERAL SHEET NOTES	
1.	PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W, UNLESS OTHERWISE NOTED.
2.	PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES	
1.	

LEGEND	
(SF)	INSTALL SEDIMENT FENCE PER CITY DWG NO S-2245
(IP)	INSTALL INLET PROTECTION TYPE 4 PER CITY DWG NO S-2126
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Scale	AS SHOWN
Designed By	SRB
Drawn By	MD
Checked By	MS

SCALE PLAN SCALE FEET

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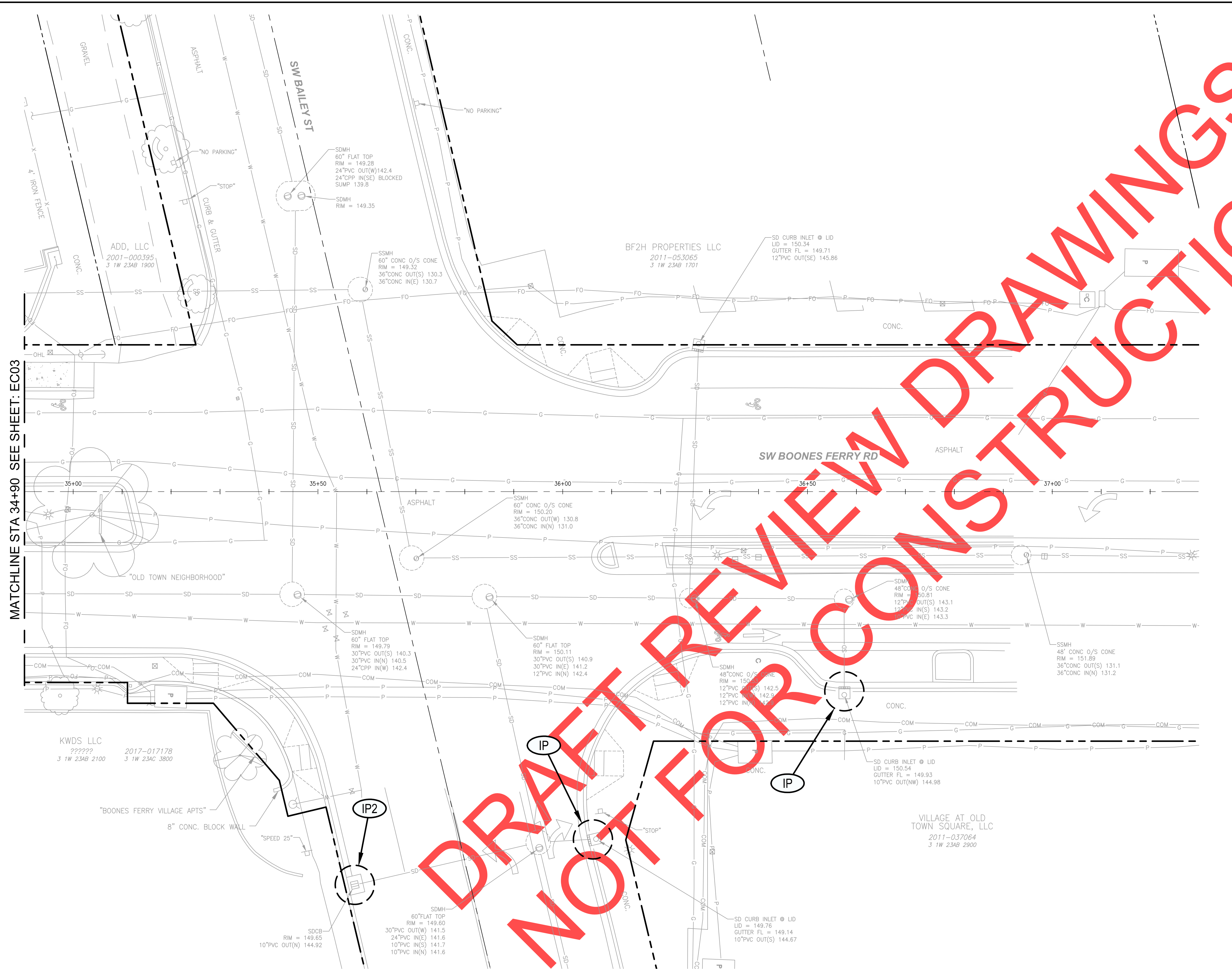
SW 5TH ST TO SW KINSMAN RD EXTENSION  
 SW BOONES FERRY RD - 5TH TO BAILEY  
 EROSION CONTROL PLAN  
 STA 32+50 TO STA 34+90

CIP #	4196
PROJECT #	2017-02-001
	EC03
	168 of 211

**PLAN**  
SCALE: 1" = 10'

100% PLANS – NOT FOR CONSTRUCTION

\\P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-19-EC04.dwg, 2/1/2019 12:19 PM



PLAN  
SCALE: 1" = 10'

GENERAL SHEET NOTES  
1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE R/W, UNLESS OTHERWISE NOTED.  
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

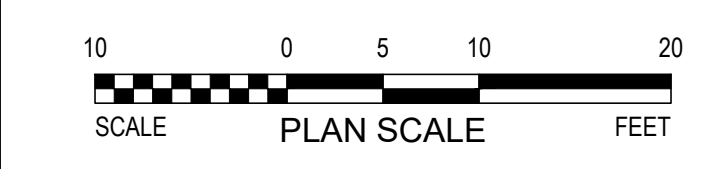
SHEET KEYNOTES  
1.

LEGEND  
SF INSTALL SEDIMENT FENCE PER CITY DWG NO S-2245  
IP INSTALL INLET PROTECTION TYPE 4 PER CITY DWG NO S-2126  
IP2 INSTALL INLET PROTECTION TYPE 5 PER CITY DWG NO S-2127

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
EROSION CONTROL PLAN  
STA 34+90 TO END

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REVISIONS

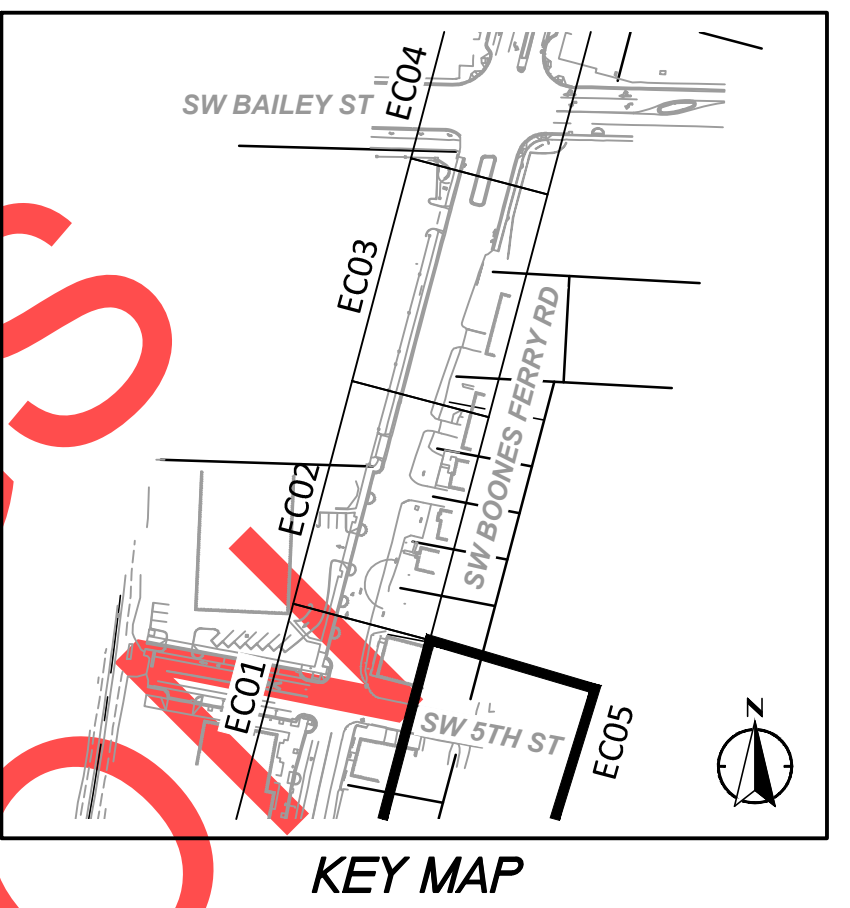
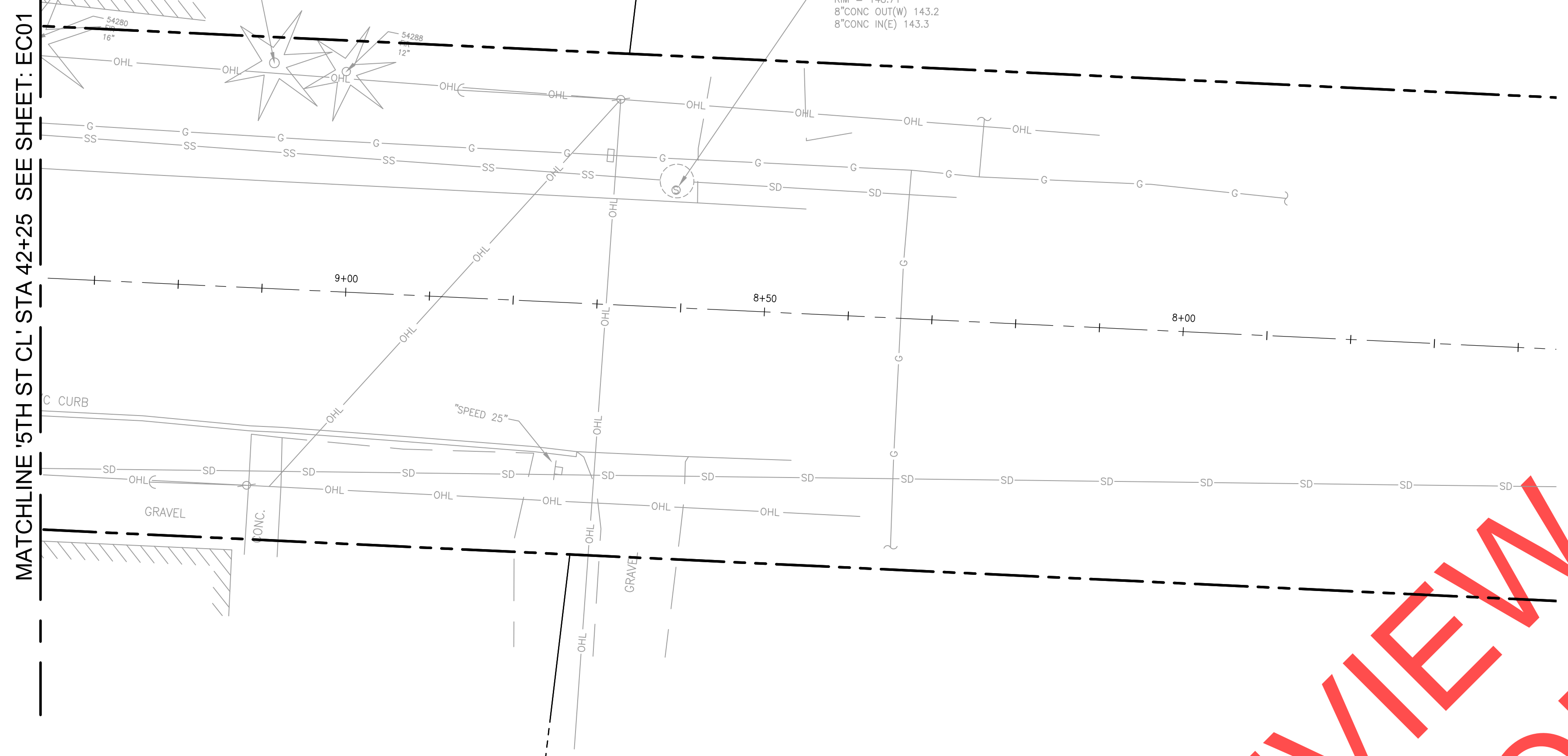
NO.	DESCRIPTION



Date	1 February 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	MD
Checked By	MS

CIP #	4196
PROJECT #	2017-02-001
	EC04
	169 of 211

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**GENERAL SHEET NOTES**

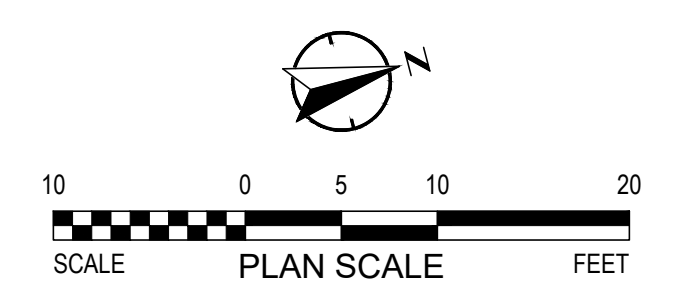
1. PRESERVE AND PROTECT (E) CONDITIONS INSIDE RW, UNLESS OTHERWISE NOTED.
2. PROTECT ALL (E) WATER/GAS VALVES WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

**SHEET KEYNOTES**

- 1.

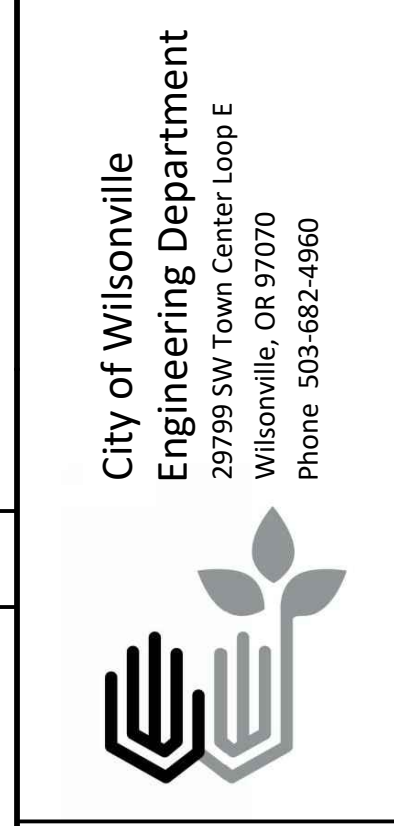
**LEGEND**

- (SF) INSTALL SEDIMENT FENCE PER CITY DWG NO S-2245
- (IP) INSTALL INLET PROTECTION TYPE 4 PER CITY DWG NO S-2126
- (IP2) INSTALL INLET PROTECTION TYPE 5 PER CITY DWG NO S-2127



NO.	REVISIONS

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Engineering Department  
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Wilsonville, OR 97070  
Phone 503-682-4960



Date: 28 January 2019  
Scale: AS SHOWN  
Designed By: SRB  
Drawn By: EA/MD/IR  
Checked By: MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
**EXISTING CONDITIONS AND DEMOLITION**  
**STA 34+90 TO END**

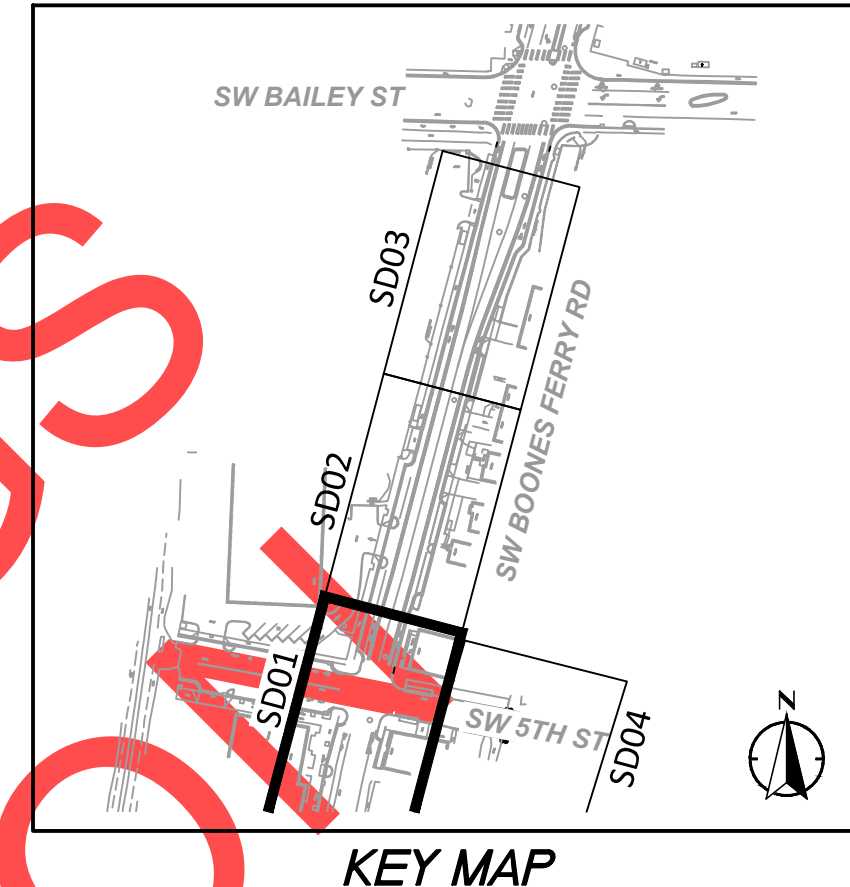
CIP #	4196
PROJECT #	2017-02-001
	EC05
	170 of 211

**PLAN**  
SCALE: 1" = 10'

P:\00-2017-180 Wilsonville, OR 5th StKinsman Road Extension\CAD\Plan Set\BOONES-21-SD01.dwg, 2/1/2019 12:21 PM Plot style table: Otek\FULL\_Black.ctb

OTV 2, LLC  
2005-129903  
3 1W 238D 103

OTV 1, LLC  
2005-129902  
3 1W 238D 102

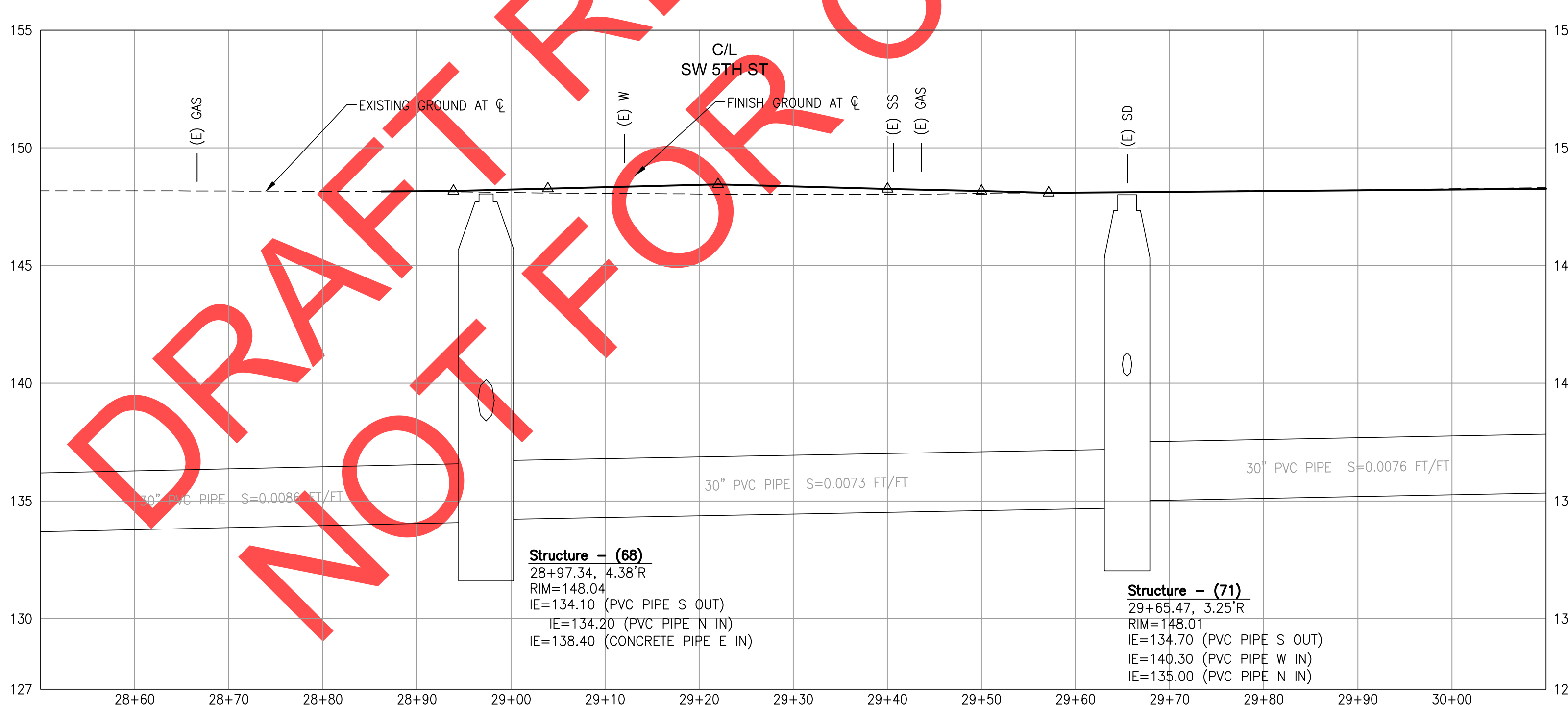


### STORM NOTES

- 2 CONSTRUCT CURB CUT INLET WITH SPLASH PAD (SEE DETAILS ON SHEET 73)
- 4 CONSTRUCT PRECAST FILTRATION PLANTER (SEE DETAILS ON SHEETS 76 -81)
- 7 REMOVE EXISTING MH STRUCTURE
- 8 "BOONES" STA. 28+80, 25.9' LT CONSTRUCT INLET, TYPE G-2 RIM = 147.38 IE OUT = 142.00 (10" E) (SEE DETAILS ON SHEET 129)
- 9 "BOONES" STA. 28+78, 20.5' RT CONSTRUCT INLET, TYPE G-2 RIM = 147.90 IE OUT = 142.20 (10" SW) (SEE DETAILS ON SHEET 129)
- 100 "BOONES" STA. 28+77, 6.6' RT INSTALL PIPE TEES INSTALL STORM SEWER PIPE - 14 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 101 "BOONES" STA. 28+82, 4.1' RT INSTALL PIPE TEES INSTALL STORM SEWER PIPE - 30 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 102 "BOONES" STA. 28+97, 4.4' RT CONNECTION TO EXISTING STRUCTURE IE IN = 134.20 (10" NW) INSTALL STORM SEWER PIPE - 30 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 124)
- 103 "BOONES" STA. 29+01, 41' RT INSTALL PIPE TEES INSTALL STORM SEWER PIPE - 6 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 124)
- 104 "BOONES" STA. 29+11, 25.4' LT CONSTRUCT WATER QUALITY STRUCTURE SFMH-BF2. RIM = 147.46 IE IN = 143.95 (10" SW) IE OUT = 140.20 (10" SE) INSTALL C900 STORM SEWER PIPE - 23 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 71)
- 105 "BOONES" STA. 29+07, 40.5' RT. CONSTRUCT BEEHIVE OVERFLOW INLET RIM = 147.07 IE OUT = 143.40 (10" SW) (SEE DETAILS ON SHEETS 67 AND 126)
- 106 "BOONES" STA. 29+40, 38.8' RT. CONSTRUCT BEEHIVE OVERFLOW INLET RIM = 147.18 IE OUT = 142.93 (10" W) (SEE DETAILS ON SHEETS 67 AND 126)

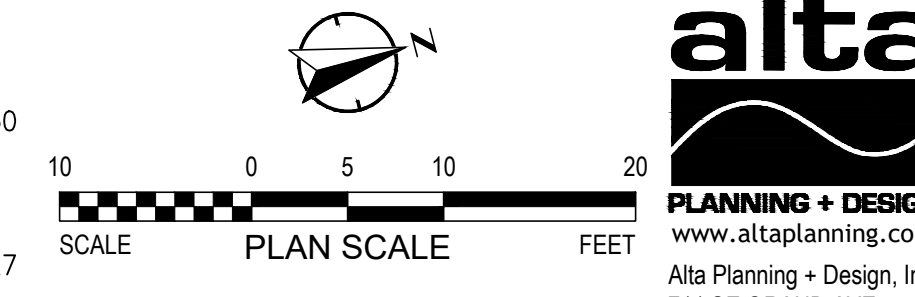
### STORM NOTES

- 107 "BOONES" STA. 29+39, 4.9' RT INSTALL PIPE TEES INSTALL STORM SEWER PIPE - 34 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 108 "BOONES" STA. 29+62, 17.7' RT CONSTRUCT CURB INLET, TYPE CG-30 RIM = 148.44 IE OUT = 146.70 (10" SE) (SEE DETAILS ON SHEET 126)
- 109 "BOONES" STA. 29+65, 3.3' RT CONNECTION TO EXISTING STRUCTURE IE IN = 138.4 (10" W) INSTALL STORM SEWER PIPE - 23 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 124)
- 110 "BOONES" STA. 29+67, 22.3' RT CONSTRUCT WATER QUALITY STRUCTURE SFMH-BF1 RIM = 147.48 IE IN = 142.0 (10" W) IE OUT = 138.95 (10" E) INSTALL STORM SEWER PIPE - 7 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 70)
- 111 "BOONES" STA. 29+66, 31.2' LT IE IN (EXTG) = 141.5 (12" NW) IE IN (EXTG) = 141.8 (12" SW) IE OUT = 143.0 (12" E) ABANDON STORM SEWER PIPE IN (NW)
- 112 "BOONES" STA. 29+85, 46.5' LT IE OUT (EXTG) = 141.8 (12" SE) IE OUT = 141.8 (12" E) MODIFY EXTG STRUCTURE ABANDON EXTG PIPE OUT (SE)
- 113 "BOONES" STA. 29+85, 2.0' RT INSTALL PIPE TEES INSTALL STORM PIPE - 46 LF 12", 10' DEPTH (SEE DETAILS ON SHEET 127)



### GENERAL SHEET NOTES

- 1. BURIED/OVERHEAD UTILITIES NOT SHOWN FOR CLARITY, SEE EXISTING CONDITION SHEETS.
- 2. SEE SIGNING, STRIPING, AND ILLUMINATION PLANS FOR RELATED WORK AT THIS LOCATION.
- 3. SEE STORM PLANS FOR RELATED WORK AT THIS LOCATION.



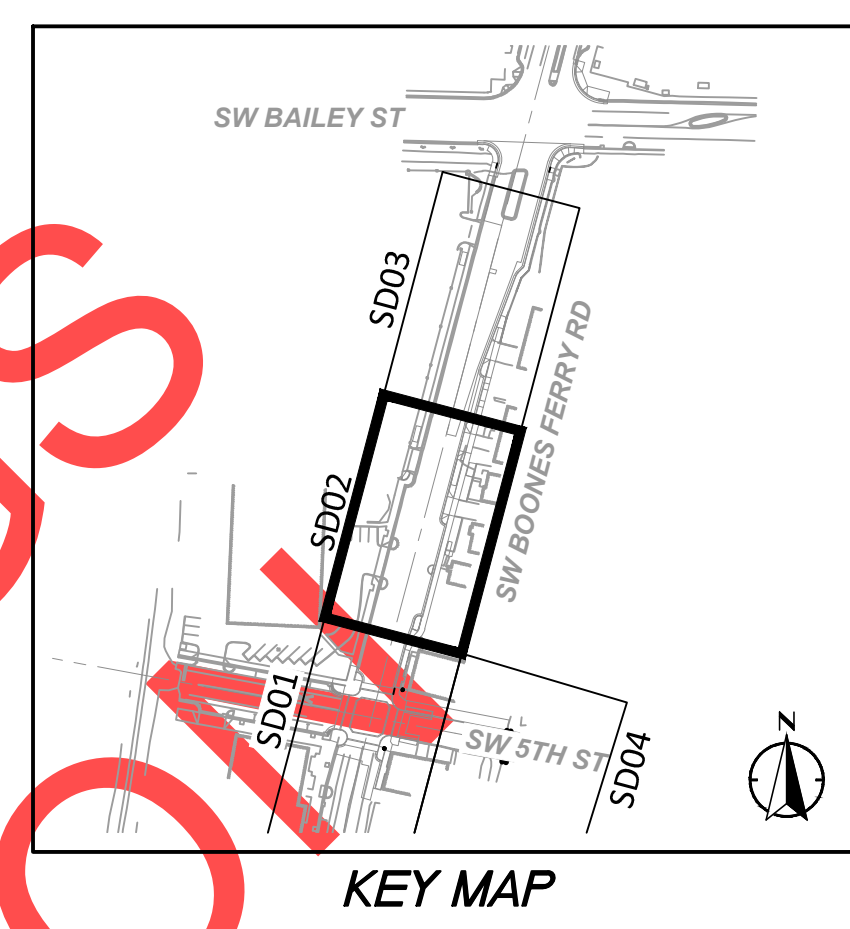
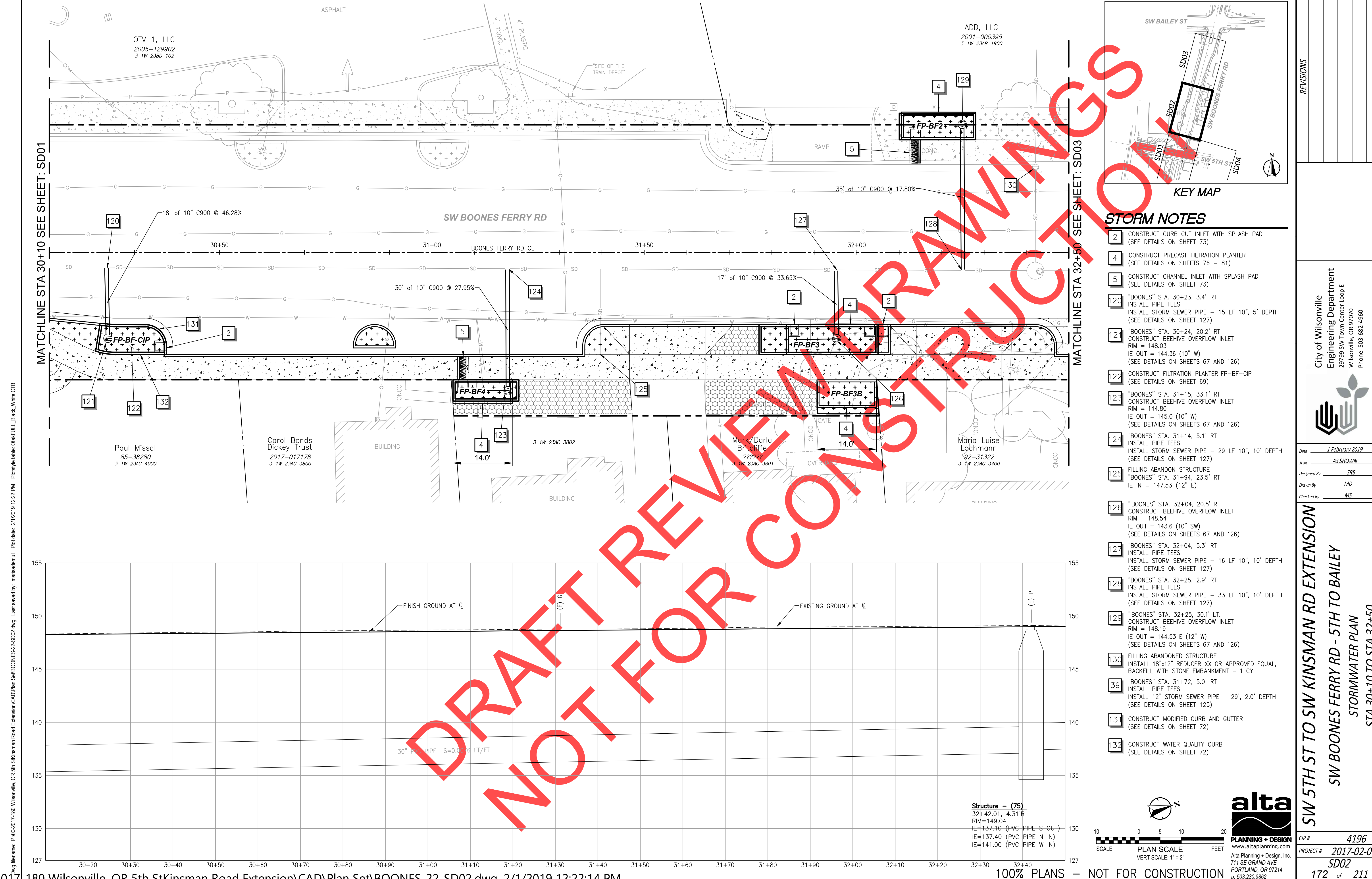
**REVISIONS**

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
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Designed By: SRB  
Drawn By: MD  
Checked By: MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
STORMWATER PLAN  
BEGIN TO STA 30+10

CIP# 4196  
PROJECT# 2017-02-001  
SD01  
171 of 211



**STORM NOTES**

- 2 CONSTRUCT CURB CUT INLET WITH SPLASH PAD (SEE DETAILS ON SHEET 73)
- 4 CONSTRUCT PRECAST FILTRATION PLANTER (SEE DETAILS ON SHEETS 76 - 81)
- 5 CONSTRUCT CHANNEL INLET WITH SPLASH PAD (SEE DETAILS ON SHEET 73)
- 120 "BOONES" STA. 30+23, 3.4' RT INSTALL PIPE TEES  
INSTALL STORM SEWER PIPE - 15 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 127)
- 121 "BOONES" STA. 30+24, 20.2' RT CONSTRUCT BEEHIVE OVERFLOW INLET  
RIM = 148.03  
IE OUT = 144.36 (10" W)  
(SEE DETAILS ON SHEETS 67 AND 126)
- 122 CONSTRUCT FILTRATION PLANTER FP-BF-CIP (SEE DETAILS ON SHEET 69)
- 123 "BOONES" STA. 31+15, 33.1' RT CONSTRUCT BEEHIVE OVERFLOW INLET  
RIM = 144.80  
IE OUT = 145.0 (10" W)  
(SEE DETAILS ON SHEETS 67 AND 126)
- 124 "BOONES" STA. 31+14, 5.1' RT INSTALL PIPE TEES  
INSTALL STORM SEWER PIPE - 29 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 125 FILLING ABANDON STRUCTURE  
"BOONES" STA. 31+94, 23.5' RT  
IE IN = 147.53 (12" E)
- 126 "BOONES" STA. 32+04, 20.5' RT. CONSTRUCT BEEHIVE OVERFLOW INLET  
RIM = 148.54  
IE OUT = 143.6 (10" SW)  
(SEE DETAILS ON SHEETS 67 AND 126)
- 127 "BOONES" STA. 32+04, 5.3' RT INSTALL PIPE TEES  
INSTALL STORM SEWER PIPE - 16 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 128 "BOONES" STA. 32+25, 2.9' RT INSTALL PIPE TEES  
INSTALL STORM SEWER PIPE - 33 LF 10", 10' DEPTH (SEE DETAILS ON SHEET 127)
- 129 "BOONES" STA. 32+25, 30.1' LT. CONSTRUCT BEEHIVE OVERFLOW INLET  
RIM = 148.19  
IE OUT = 144.53 E (12" W)  
(SEE DETAILS ON SHEETS 67 AND 126)
- 130 FILLING ABANDONED STRUCTURE  
INSTALL 18" x 12" REDUCER XX OR APPROVED EQUAL. BACKFILL WITH STONE EMBANKMENT - 1 CY
- 139 "BOONES" STA. 31+72, 5.0' RT INSTALL PIPE TEES  
INSTALL 12" STORM SEWER PIPE - 29', 2.0' DEPTH (SEE DETAILS ON SHEET 125)
- 131 CONSTRUCT MODIFIED CURB AND GUTTER (SEE DETAILS ON SHEET 72)
- 132 CONSTRUCT WATER QUALITY CURB (SEE DETAILS ON SHEET 72)

Structure - (75)  
32+42.01, 4.31'R  
RIM=149.04  
IE=137.10 (PVC PIPE S-OUT)  
IE=137.40 (PVC PIPE N IN)  
IE=141.00 (PVC PIPE W IN)

PLAN SCALE  
VERT SCALE: 1" = 2'

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Phone 503-682-4960

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Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: SRB  
Drawn By: MD  
Checked By: MS

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**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
STORMWATER PLAN  
STA 30+10 TO STA 32+50

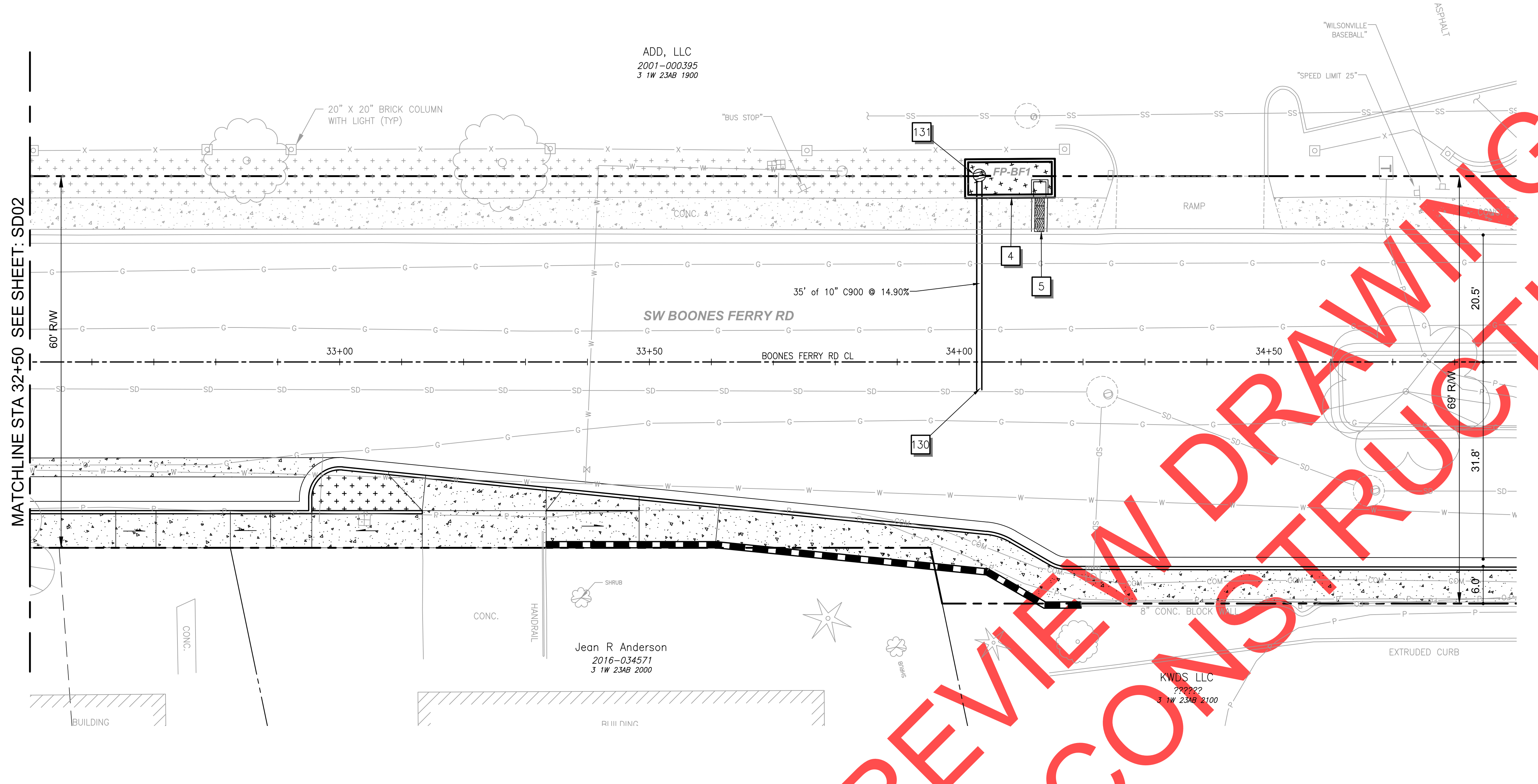
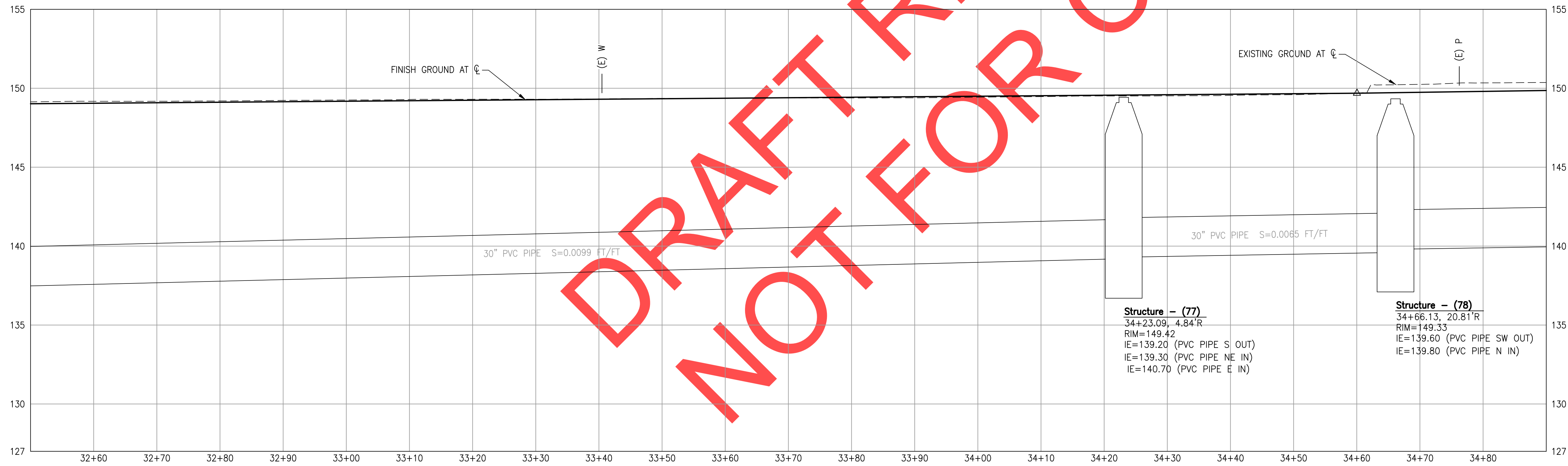
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CIP # 4196  
PROJECT # 2017-02-001  
SD02  
172 of 211

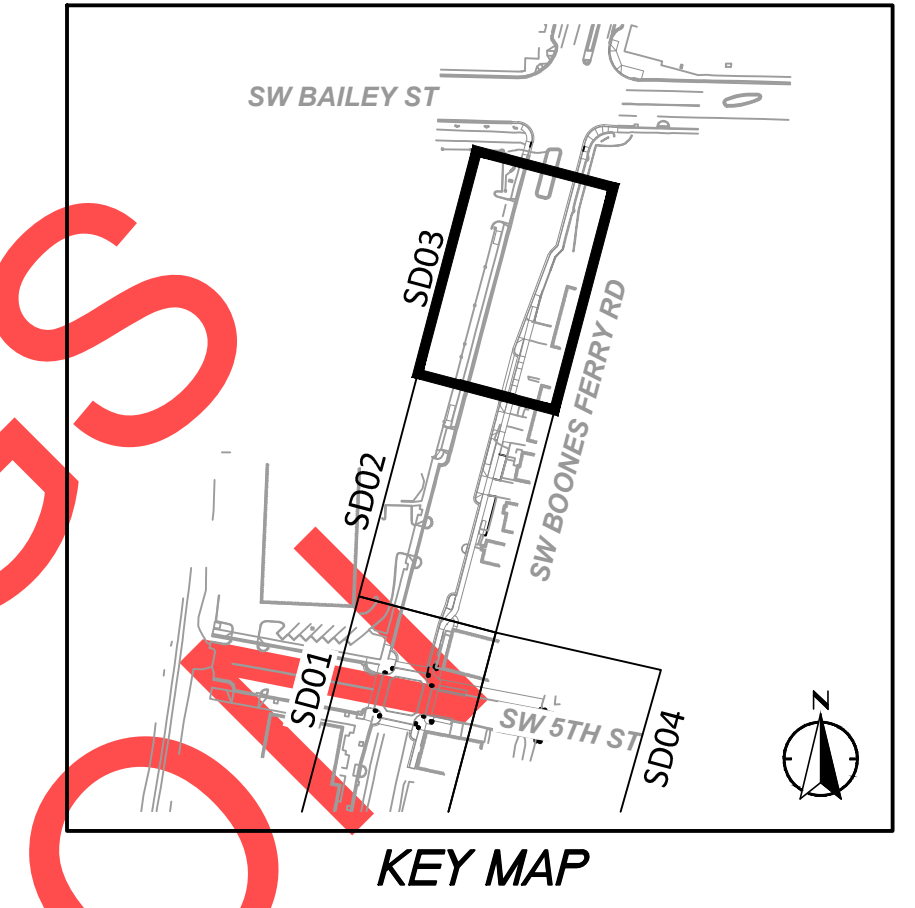
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MATCHLINE STA 32+50 SEE SHEET: SD02



- STORM NOTES**
- 4 CONSTRUCT PRECAST FILTRATION PLANTER (SEE DETAILS ON SHEETS 76 - 81)
  - 5 CONSTRUCT CHANNEL INLET WITH SPLASH PAD (SEE DETAILS ON SHEET 73)
  - 130 "BOONES" STA. 34+03, 4.5' RT INSTALL PIPE TEES INSTALL STORM SEWER PIPE - 35 LF 10", 5' DEPTH (SEE DETAILS ON SHEET 127)
  - 131 "BOONES" STA. 34+03, 30.1' LT CONSTRUCT BEEHIVE OVERFLOW INLET RIM = 148.87 IE OUT = 145.20 (10" E) (SEE DETAILS ON SHEETS 67 AND 126)



DRAFT REVIEW FOR CONSTRUCTION

10 0 5 10 20  
SCALE PLAN SCALE VERT SCALE: 1" = 2' FEET

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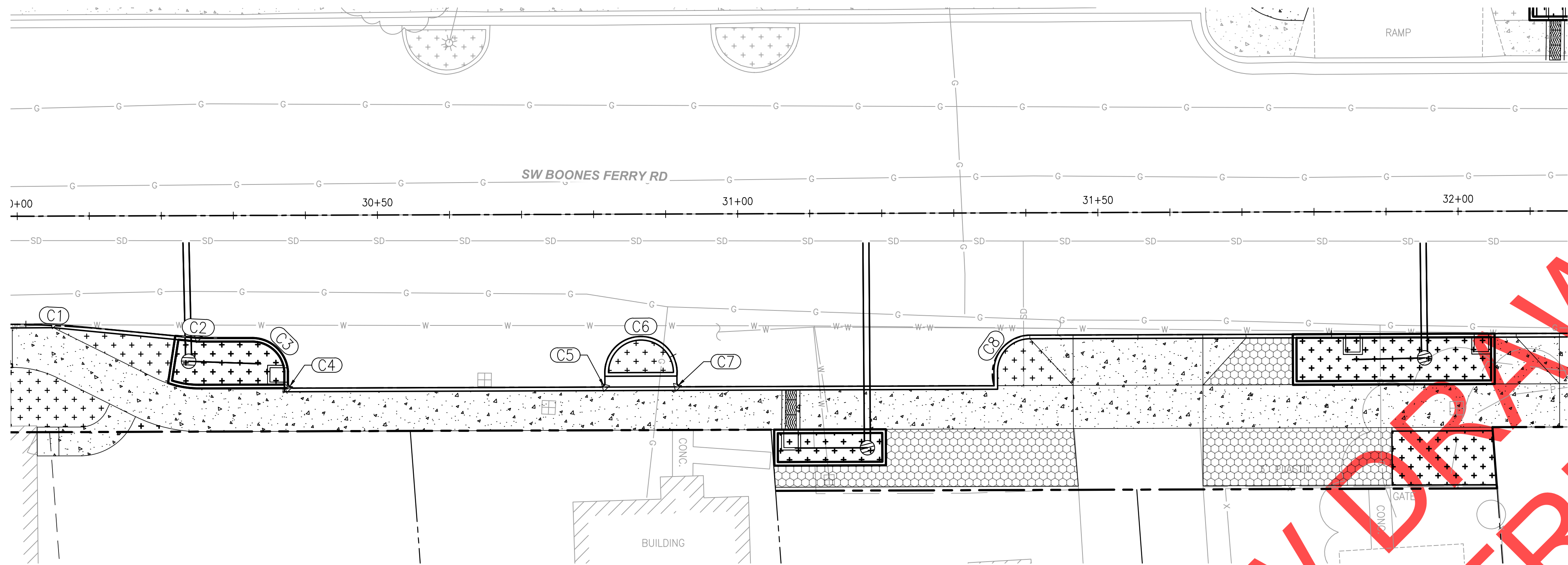
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Phone 503-682-4960

Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: SRB  
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Checked By: MS

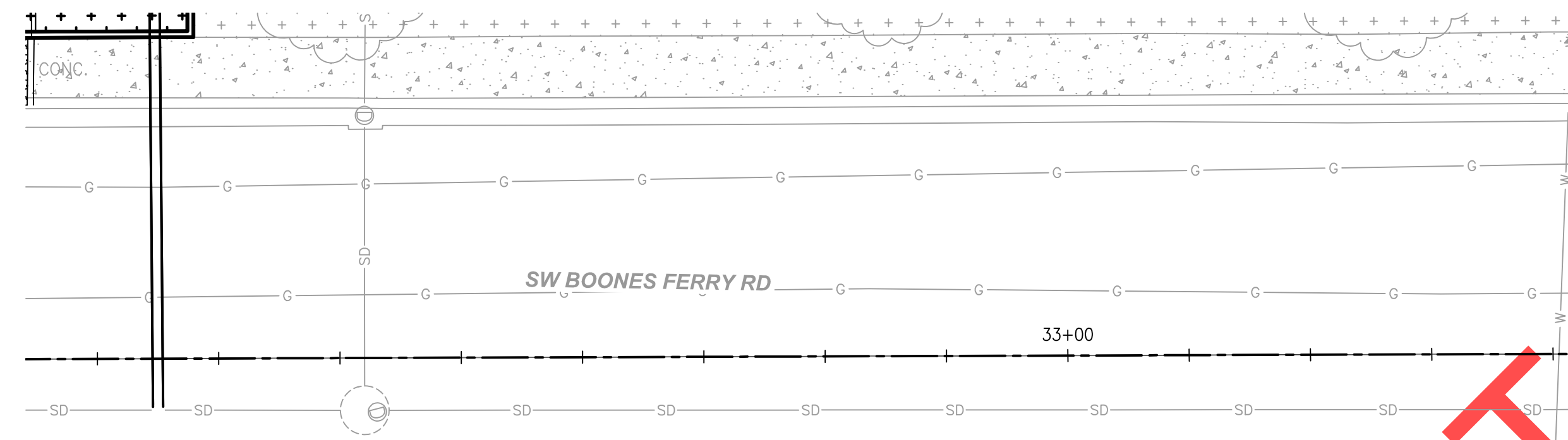
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
STORMWATER PLAN  
STA 32+50 TO STA 34+90

CIP # 4196  
PROJECT # 2017-02-001  
SD03  
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SW BOONES FERRY RD EAST CURB LINE  
**PLAN**  
 SCALE: 1" = 10'



SW BOONES FERRY RD EAST CURB LINE  
**PLAN**  
 SCALE: 1" = 10'

CURVE TABLE						
CURVE #	RADIUS	LENGTH	DELTA	START POINT	END POINT	TANGENT
C1	161.20	16.07	N17° 39' 30.47"E	(7617807.92,603130.15)	(7617812.79,603145.45)	8.04
C2	60.15	6.00	N17° 39' 30.47"E	(7617815.97,603153.94)	(7617817.79,603159.65)	3.00
C3	5.00	7.85	N59° 48' 11.41"E	(7617818.94,603164.00)	(7617825.05,603167.55)	5.00
C4	0.80	1.26	N59° 48' 11.41"E	(7617826.21,603167.25)	(7617827.19,603167.81)	0.80
C5	0.60	0.94	N30° 08' 46.44"W	(7617838.07,603209.00)	(7617837.64,603209.73)	0.60
C6	5.02	16.74	N14° 48' 11.41"E	(7617836.77,603209.96)	(7617839.33,603219.63)	52.62
C7	0.59	0.94	N60° 09' 55.99"E	(7617840.20,603219.39)	(7617840.93,603219.81)	0.60
C8	5.41	9.95	N39° 39' 32.95"W	(7617852.02,603261.79)	(7617846.53,603268.41)	7.09
C9	5.00	7.85	N59° 48' 11.41"E	(7617872.46,603366.54)	(7617878.58,603370.10)	5.00
C10	0.59	0.93	N59° 48' 11.41"E	(7617879.94,603369.74)	(7617880.66,603370.16)	0.59
C11	0.59	0.93	N30° 11' 48.59"W	(7617892.62,603415.42)	(7617892.20,603416.15)	0.59
C12	5.00	8.35	N27° 20' 29.53"W	(7617890.77,603416.52)	(7617887.36,603423.11)	5.52

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 Engineering Department  
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 Phone 503-682-4960

Date: 2 March 2018  
 Scale: AS SHOWN  
 Designed By: SRB  
 Drawn By: MD  
 Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 SW BOONES FERRY RD - 5TH TO BAILEY  
 CURB RETURNS

CIP # 4196  
 PROJECT # 2017-02-001  
 SD04  
 174 of 211

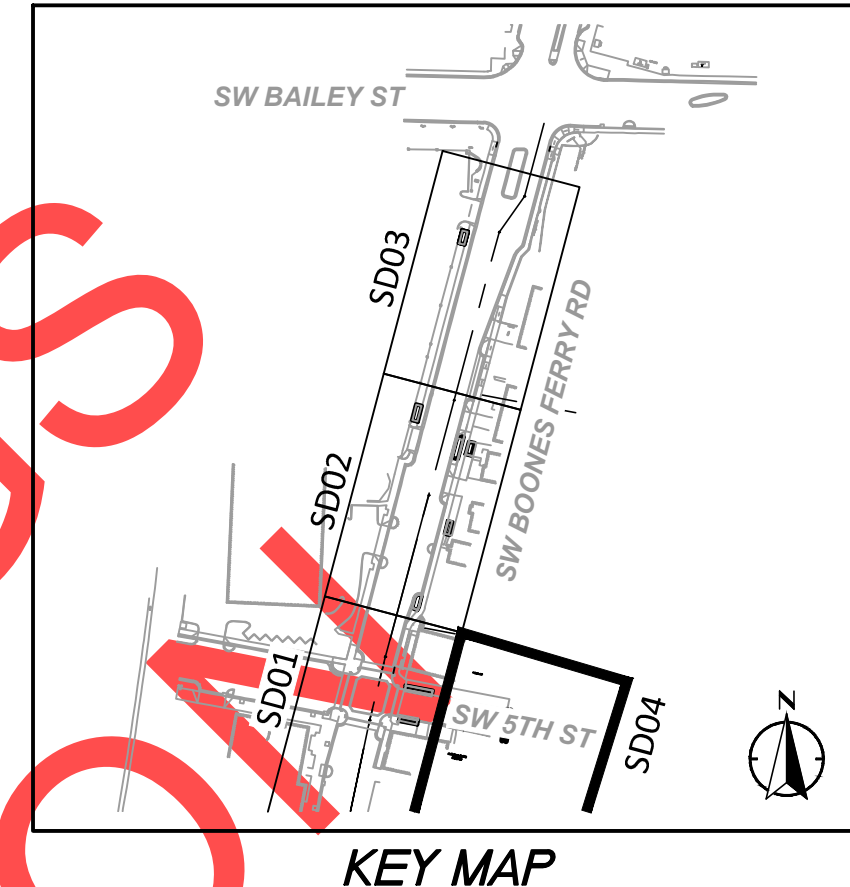
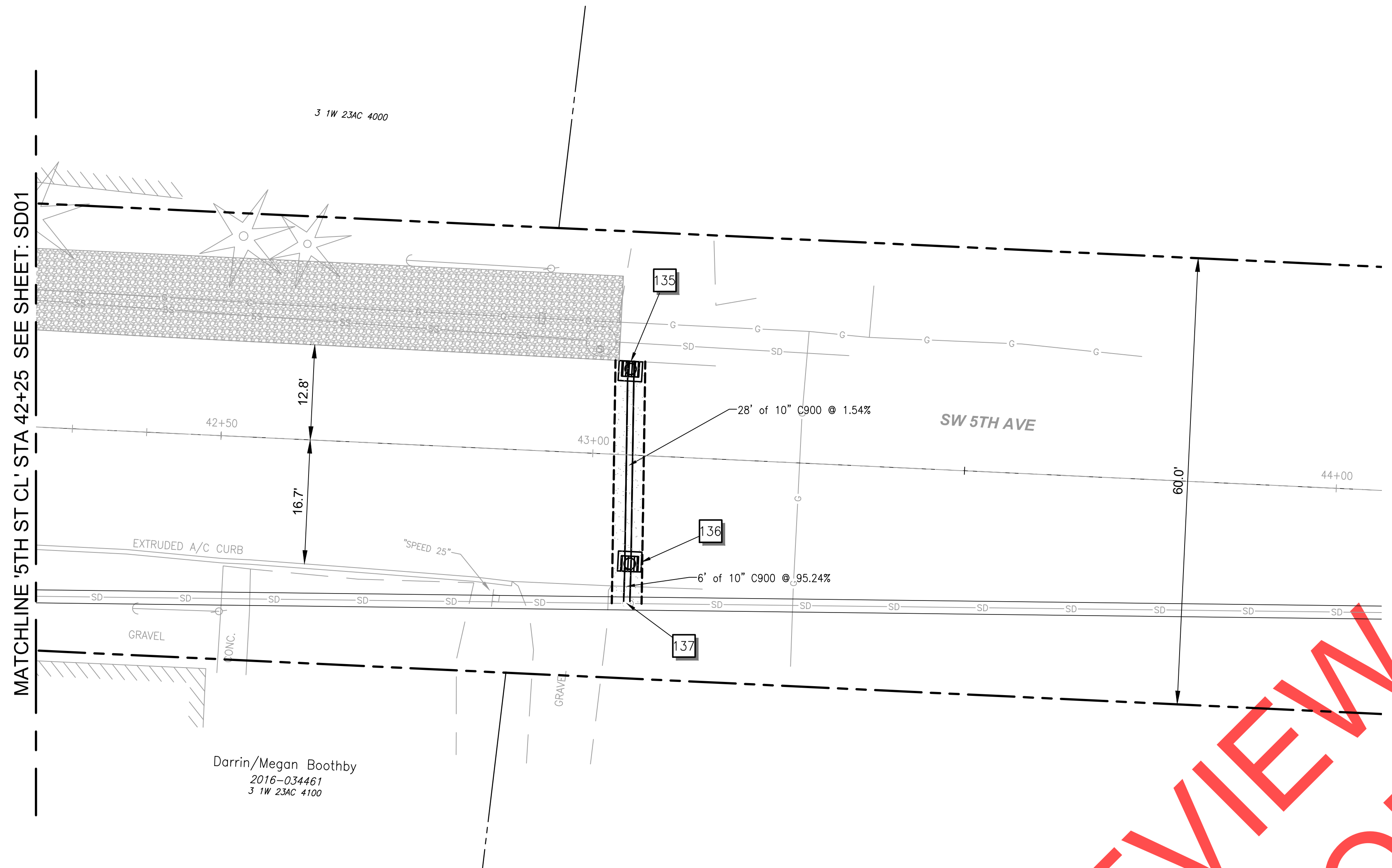
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DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION




- STORM NOTES**
- 135 "5TH ST CL" STA. 43+05, 12.6' LT  
CONSTRUCT INLET, TYPE G-2  
RIM = 148.73  
IE OUT = 144.73 (10" S)  
(SEE DETAILS ON SHEET 129)
  - 136 "5TH ST CL" STA. 43+06, 15.6' RT  
CONSTRUCT INLET, TYPE G-2  
RIM = 149.06  
IE IN = 144.30 (10" S)  
IE OUT = 144.10 (10" S)  
INSTALL STORM SEWER PIPE - 28 LF 10", 5' DEPTH  
(SEE DETAILS ON SHEET 129)
  - 137 "5TH ST CL" STA. 43+06, 20' RT  
INSTALL PIPE TEES  
INSTALL STORM SEWER PIPE - 5 LF 10", 5' DEPTH  
(SEE DETAILS ON SHEET 127)

Darrin/Megan Boothby  
2016-034461  
3 1W 23AC 4100

REVISIONS

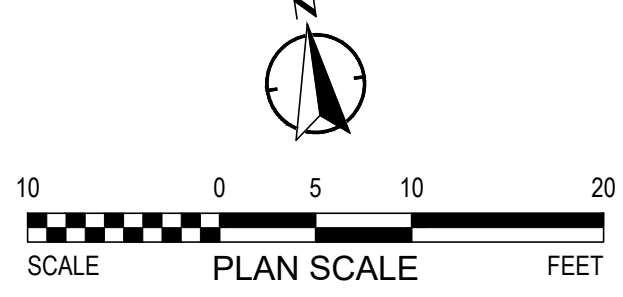
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Date	2 March 2018
Scale	AS SHOWN
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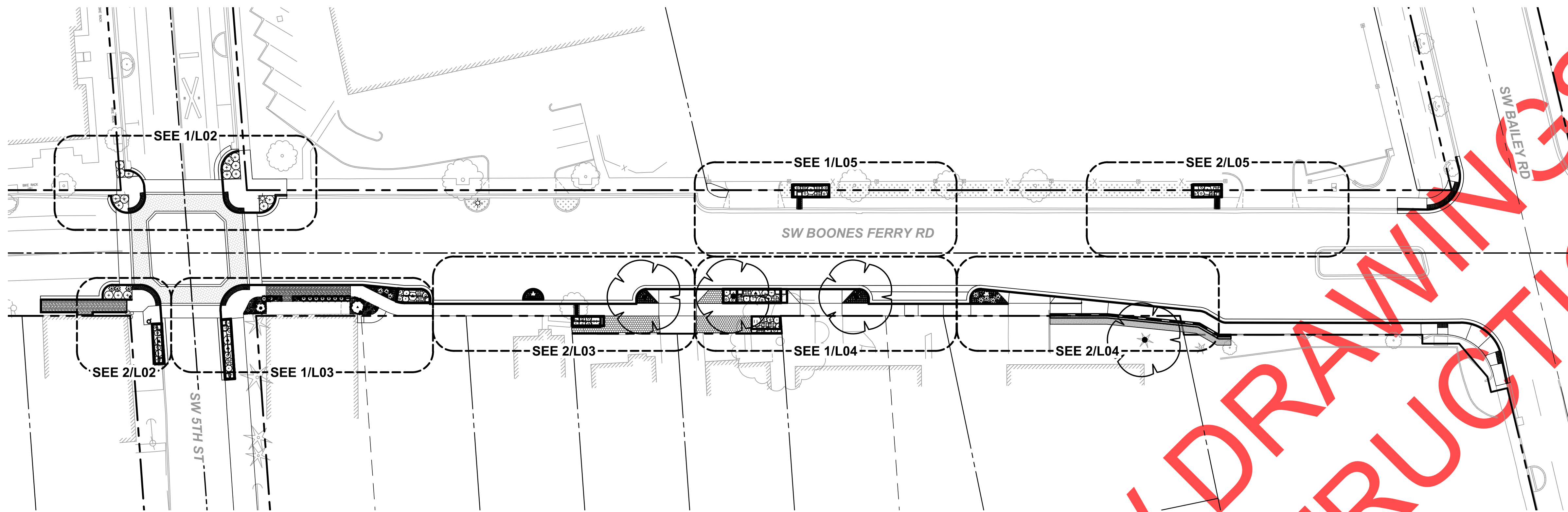
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
STORMWATER PLAN

CIP #	4196
PROJECT #	2017-02-001
	SD05
	175 of 211



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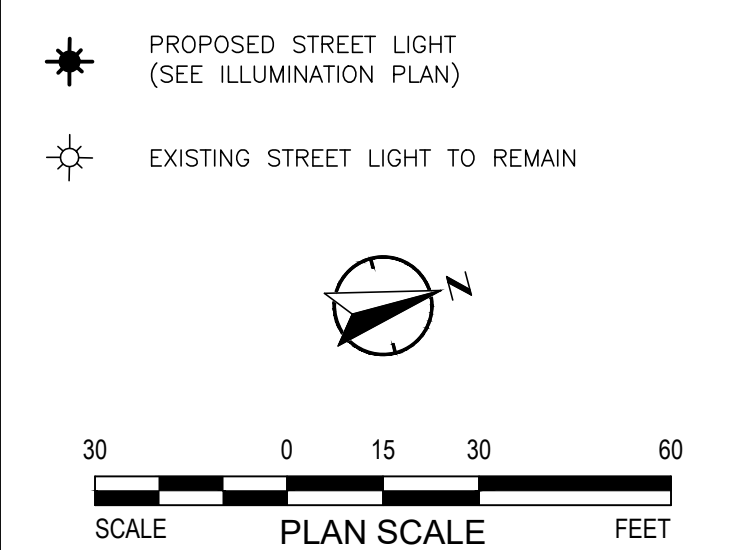


**PLAN**  
SCALE: 1" = 30'

**LANDSCAPE LEGEND**

- OPHIOPOGON PLANISCAPUS 'NIGRESCENS' / BLACK MONDO GRASS
- HAKONECHLOA MACRA 'AUREOLA' / JAPANESE FOREST GRASS
- HEUCHERA 'FIRE CHIEF' / CORAL BELLS
- HEUCHERA 'FIRE FLY' / CORAL BELLS
- PICEA ABIES 'NIDIFORMIS' / BIRD'S NEST SPRUCE
- MAGNOLIA FIGO / BANANA SHRUB
- MAGNOLIA LAEVIFOLIA
- CUPRESSUS MACROCARPA 'WILMA GOLDCREST' / LEMON CYPRESS
- ILEX CRENATA 'SKY PENCIL' / SKY PENCIL HOLLY
- POTENTILLA FRUTICOSA 'SUNSET' / SHRUBBY CINQUEFOIL
- PRUNUS LAUROCERASUS 'OTTO LUYKEN' / OTTO LUYKEN ENGLISH LAUREL
- ACER X NORWEGIAN SUNSET / NORWEGIAN SUNSET MAPLE
- CORNUS SERICEA / RED TWIG DOGWOOD
- SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY
- SPIRAEA DOUGLASII / DOUGLAS SPIRAEA
- POLYSTICHUM MUNITUM / SWORD FERN
- PHYSOCARPUS CAPITATUS / WESTERN NINEBARK

- ARCTOSTAPHYLOS UVA-URSI / BEARBERRY
- MULCH
- CONCRETE SIDEWALK OR DRIVEWAY
- PLANK PAVERS
- GRAVEL
- TURF BLOCK
- PROPOSED STREET LIGHT (SEE ILLUMINATION PLAN)
- EXISTING STREET LIGHT TO REMAIN



**PLANT PALETTE**

SPECIES	COMMON NAME	QTY	CONT	SIZE
OPHIPOGON PLANISCAPUS 'NIGRESCENS'	BLACK MONDO GRASS	286	1 GAL	8-12"
HAKONECHLOA MACRA 'AUREOLA'	JAPANESE FOREST GRASS	36	1 GAL	12-18"
HEUCHERA 'FIRE CHIEF'	CORAL BELLS	28	1 GAL	12-18"
HEUCHERA 'FIRE FLY'	CORAL BELLS	28		
PICEA ABIES 'NIDIFORMIS'	BIRD'S NEST SPRUCE	1	5 GAL	4' W x 2' T
MAGNOLIA FIGO (ALTERNATE) MAGNOLIA LAEVIFOLIA	BANANA SHRUB MAGNOLIA LAEVIFOLIA	1	15 GAL	10-15'
CUPRESSUS MACROCARPA 'WILMA GOLDCREST'	LEMON CYPRESS	2	15 GAL	2' W x 6' T
ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY	10	15 GAL	3' W x 6' T
ACER X NORWEGIAN SUNSET	NORWEGIAN SUNSET MAPLE	4	24" BOX	35'
POTENTILLA FRUTICOSA 'SUNSET'	SHRUBBY CINQUEFOIL	11	4" POT	3' W x 2' T
PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN ENGLISH LAUREL	17	3 GAL	6' W x 3' T
ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	24	1 GAL	8' W x 1' T

**NOTES (SEE SHEET L2.3 FOR ADDITIONAL NOTES)**

1. PLANTING SCHEDULE: NO PLANTING SHOULD BE STARTED UNTIL THE CITY ENGINEER HAS APPROVED FINISHED GRADING.
2. APPROVALS: ALL PLANT MATERIAL AND SITE FURNISHINGS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
3. PLANT LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT IN FIELD BEFORE INSTALLATION.

**STORMWATER PLANT PALETTE**

SPECIES	COMMON NAME	QTY	CONT	SIZE
CORNUS SERICEA	RED TWIG DOGWOOD	7	3 GAL	5' W x 4' T
POLYSTICHUM MUNITUM	SWORD FERN	20	1 GAL	5' W x 3' T
PHYSOCARPUS CAPITATUS	WESTERN NINEBARK	14	1 GAL	3' W x 5' T
SPIRAEA DOUGLASII	DOUGLAS SPIRAEA	2	1 GAL	5' W x 5' T
SYMPHORICARPOS ALBUS	WHITE SNOWBERRY	24	1 GAL	4' W x 4' T

REVISIONS

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: 1"=5'  
Designed By: SRB  
Drawn By: OBT  
Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY

LANDSCAPE KEY MAP

CIP # 4196  
PROJECT # 2017-02-001  
L01  
176 of 211

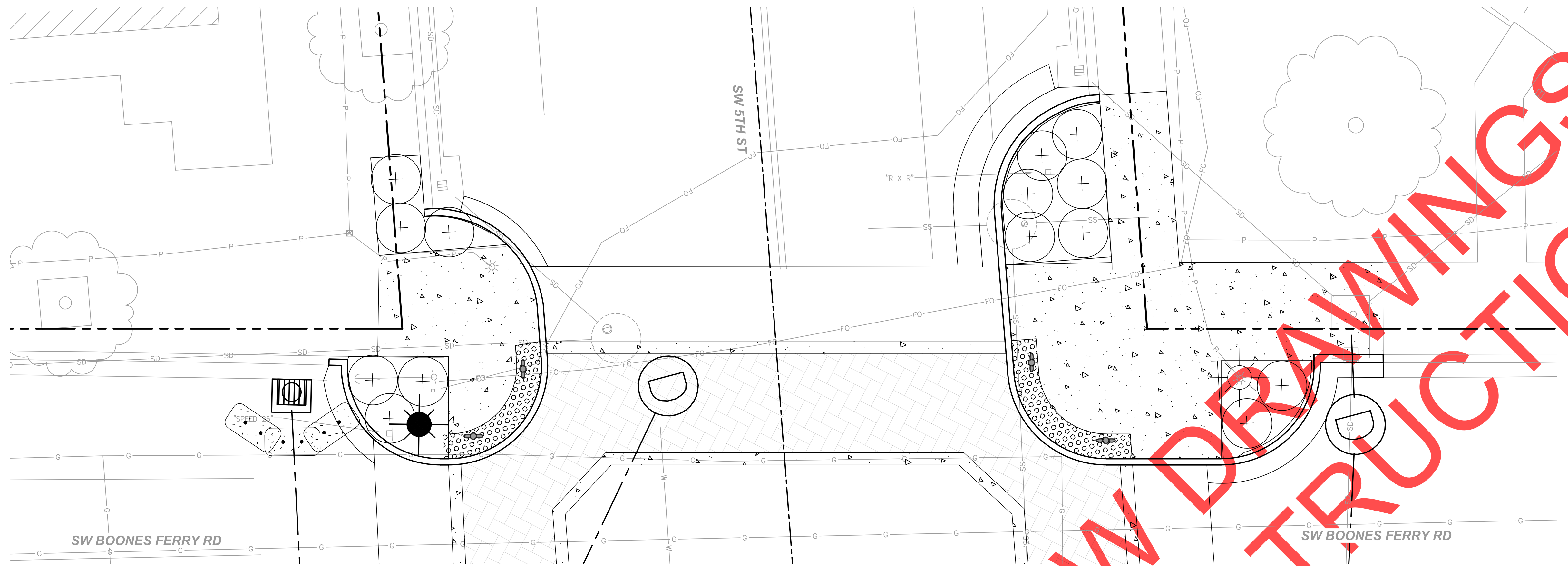
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NOTE: SEE PLANTING DETAILS 1, 2, 5, 6, AND 8 ON SHEET L2.3

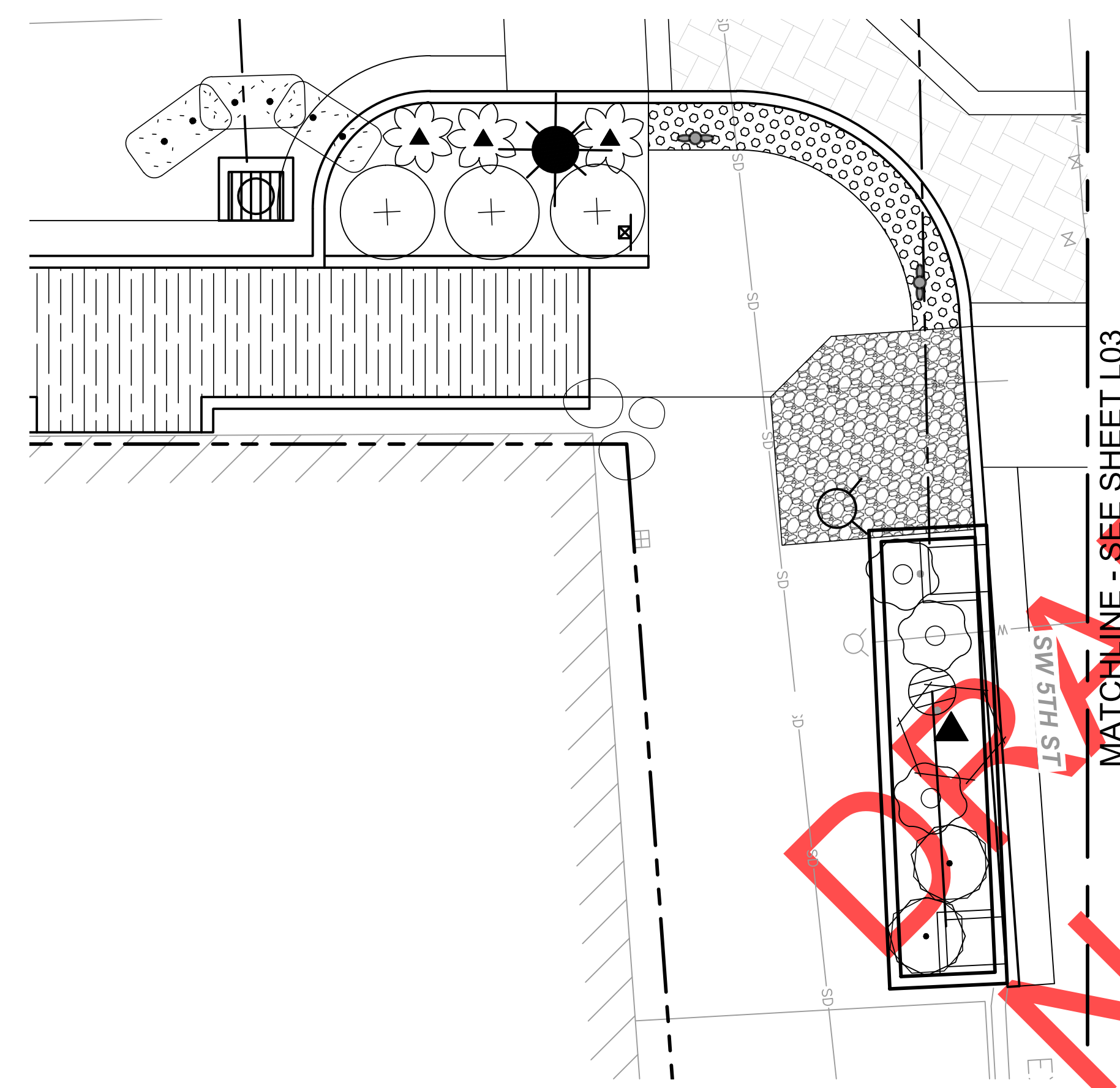
100% PLANS - NOT FOR CONSTRUCTION



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






















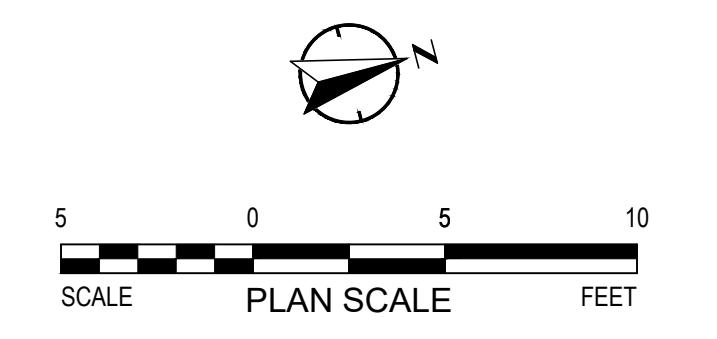
**PLAN - 1**  
SCALE: 1" = 5'



**PLAN - 2**  
SCALE: 1" = 5'

**LANDSCAPE LEGEND**

-  OPHIOPOGON PLANISCAPUS 'NIGRESCENS' / BLACK MONDO GRASS
-  HAKONECHLOA MACRA 'AUREOLA' / JAPANESE FOREST GRASS
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-  PROPOSED STREET LIGHT (SEE ILLUMINATION PLAN)
-  EXISTING STREET LIGHT TO REMAIN



REVISIONS


City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

Date: 1 February 2019  
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 Designed By: SRB  
 Drawn By: OBT  
 Checked By: MS

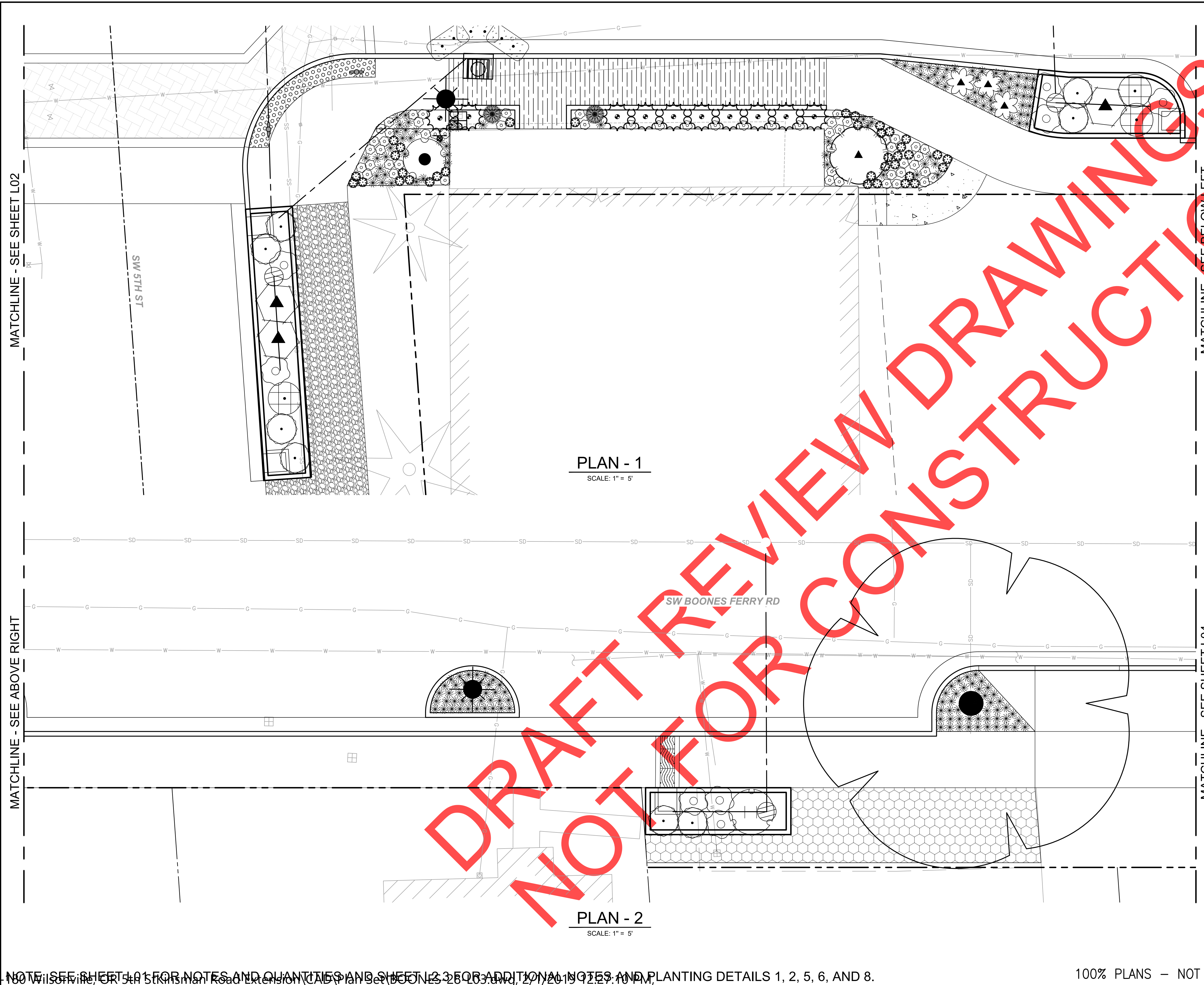
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 LANDSCAPE PLAN

CIP #	4196
PROJECT #	2017-02-001
	L02
	177 of 211

NOTE: SEE SHEET L01 FOR NOTES AND QUANTITIES AND SHEETS L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100 FOR ADDITIONAL NOTES AND PLANTING DETAILS 1, 2, 5, 6, AND 8.

100% PLANS - NOT FOR CONSTRUCTION
























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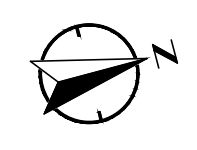


PLAN - 1  
SCALE: 1" = 5'

PLAN - 2  
SCALE: 1" = 5'

LANDSCAPE LEGEND

-  OPHIOPOGON PLANISCAPUS 'NIGRESCENS' / BLACK MONDO GRASS
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-  TURF BLOCK
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-  EXISTING STREET LIGHT TO REMAIN



NO.	DESCRIPTION	DATE

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date: 1 February 2019  
Scale: 1"=5'  
Designed By: SRB  
Drawn By: OBT  
Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
LANDSCAPE PLAN

CIP # 4196  
PROJECT # 2017-02-001  
L03  
178 of 211

NOTE: SEE SHEET L01 FOR NOTES AND QUANTITIES AND SHEETS L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100 FOR ADDITIONAL NOTES AND PLANTING DETAILS 1, 2, 5, 6, AND 8.

100% PLANS - NOT FOR CONSTRUCTION

MATCHLINE - SEE SHT L05

SW BOONES FERRY RD

GRAVEL

PLAN - 1

SCALE: 1" = 5'

MATCHLINE - SEE SHT L05

SW BOONES FERRY RD

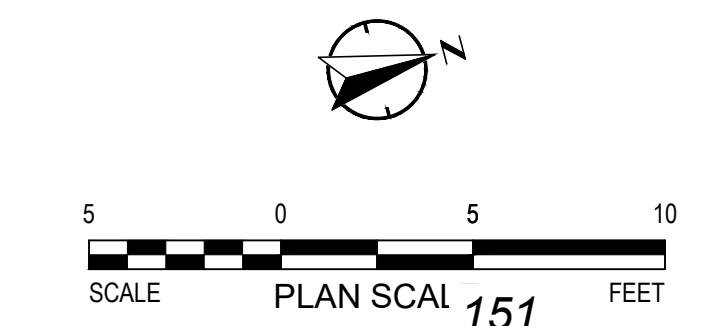
SALVAGE EXISTING LANDSCAPE IF POSSIBLE

PLAN - 2

SCALE: 1" = 5'

LANDSCAPE LEGEND

- OPHIPOGON PLANISCAPUS 'NIGRESCENS' / BLACK MONDO GRASS
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- HEUCHERA 'FIRE CHIEF' / CORAL BELLS  
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- PROPOSED STREET LIGHT (SEE ILLUMINATION PLAN)
- EXISTING STREET LIGHT TO REMAIN



REVISIONS


City of Wilsonville  
 Engineering Department  
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 Wilsonville, OR 97070  
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SW 5TH ST TO SW KINSMAN RD EXTENSION  
 SW BOONES FERRY RD - 5TH TO BAILEY  
 LANDSCAPE PLAN

CIP #	4196
PROJECT #	2017-02-001
	L04
	179 of 211

DRAFT REVIEW DRAWINGS NOT FOR CONSTRUCTION

MATCHLINE - SEE SHT L03

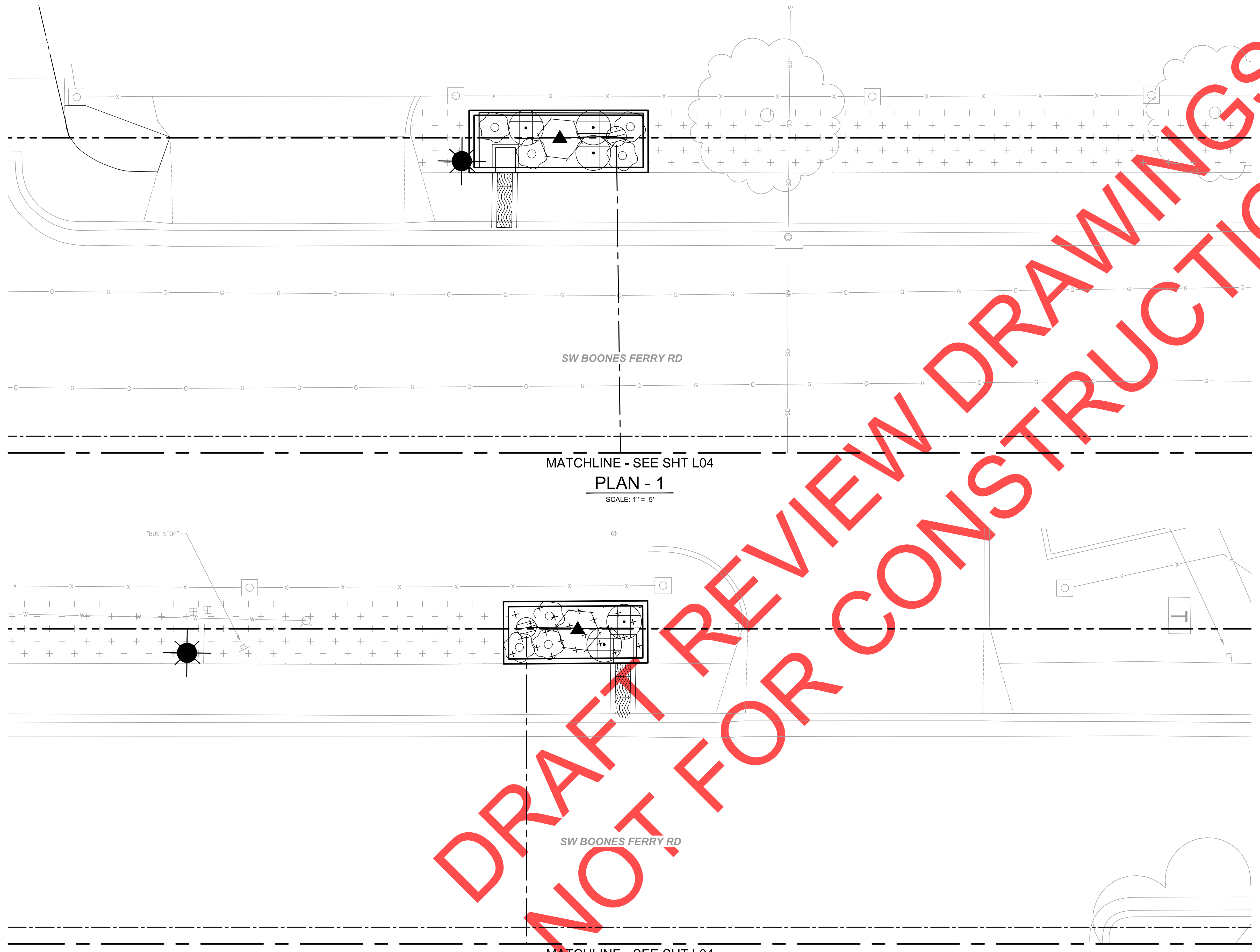
MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE RIGHT

NOTE: SEE SHEET L01 FOR NOTES AND QUANTITIES AND SHEETS L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100 FOR ADDITIONAL NOTES AND PLANTING DETAILS 1, 2, 5, 6, AND 8.

100% PLANS - NOT FOR CONSTRUCTION

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**LANDSCAPE LEGEND**

- OPHIOPOGON PLANISCAPUS 'NIGRESCENS' / BLACK MONDO GRASS
- HAKONECHLOA MACRA 'AUREOLA' / JAPANESE FOREST GRASS
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- PROPOSED STREET LIGHT (SEE ILLUMINATION PLAN)
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**REVISIONS**


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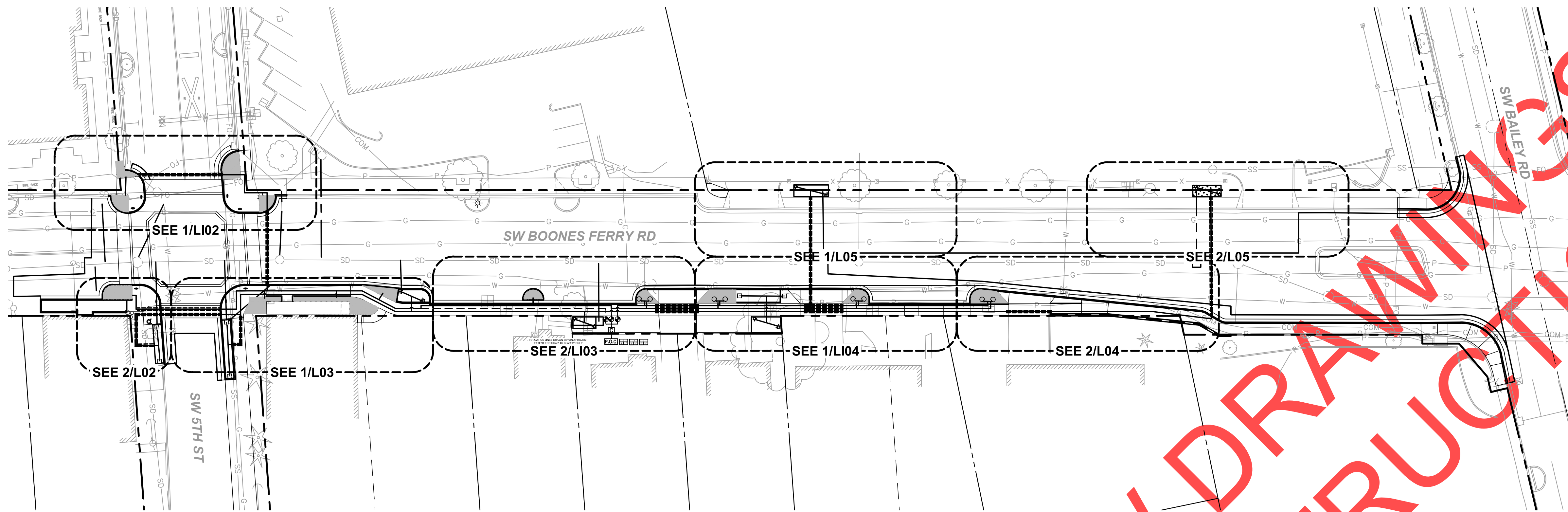
**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 LANDSCAPE PLAN

CIP #	4196
PROJECT #	2017-02-001
	L05
	180 of 211

DRAFT REVIEW DRAWINGS  
 NOT FOR CONSTRUCTION

NOTE: SEE SHEET L01 FOR NOTES AND QUANTITIES AND SHEETS L02, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100 FOR ADDITIONAL NOTES AND PLANTING DETAILS 1, 2, 5, 6, AND 8.

100% PLANS - NOT FOR CONSTRUCTION



PLAN  
SCALE: 1" = 30'

### IRRIGATION NOTES

- INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL LOCAL CODES & ORDINANCES. CONTRACTOR SHALL DESIGN AND BUILD THE IRRIGATION SYSTEM ACCORDING TO STANDARD CONSTRUCTION PRACTICES AND THESE DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP FOR ONE YEAR BEYOND THE DATE OF FINAL ACCEPTANCE OF IRRIGATION SYSTEM.
- COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROLLER(S) WITH OTHER TRADES AND OWNER.
- SYSTEM IS DESIGNED TO RUN AT 40 PSI OPERATING PRESSURE WITH 60 GPM AT POINT OF CONNECTION. CONTRACTOR SHALL VERIFY GPM / PSI AT POINT OF CONNECTION PRIOR TO COMMENCING WORK. NOTIFY LANDSCAPE ARCHITECT IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
- IRRIGATION PLAN DRAWINGS SHOW DIAGRAMMATIC IRRIGATION LAYOUT. CONTRACTOR IS RESPONSIBLE FOR DESIGN-BUILD OF A COMPLETE AND WORKING SYSTEM INCLUDING ALL PIPE SIZING, TRENCHING AND WIRING.
- CONTRACTOR TO MARK LAYOUT OF TRENCHES AND VALVE LOCATIONS FOR REVIEW BY LANDSCAPE ARCHITECT IN FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY AND ALL EXISTING UTILITIES ON AND ADJACENT TO THE PROJECT PRIOR TO BEGINNING CONSTRUCTION. FOR UTILITY LOCATE CALL: 1-800-332-2344.
- ALL IRRIGATION EQUIPMENT SHALL BE PLACED IN PLANTED AREAS WHENEVER POSSIBLE. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES AND EXISTING TREE ROOTS.
- WHERE EXISTING TREE DRIP LINES ARE IN LINE WITH TRENCH LOCATIONS THE CONTRACTOR SHALL HAND DIG.
- ALL VALVES WILL BE PLACED IN VALVE BOXES IN A MANNER THAT FACILITATES ACCESS FOR MAINTENANCE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY INCLUDING UNIONS. LOCATE VALVE BOXES IN SHRUB AND GROUND COVER BEDS WHENEVER POSSIBLE.
- IRRIGATION LATERALS SHALL BE SIZED STARTING AT VALVE AND CONTINUING IN DIRECTION OF FLOW.
- ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE 100% COVERAGE AND MINIMIZE OVERSPRAY ONTO BUILDINGS, SIDEWALKS AND ROAD.
- SLEEVES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY INSTALLATION OF SLEEVE LOCATIONS, QUANTITIES AND SIZES TO ACCOMMODATE ALL IRRIGATION PIPING.
- PROVIDE PRESSURE COMPENSATING DEVICES AS REQUIRED.

### IRRIGATION EQUIPMENT

SYMBOL	DESCRIPTION	DETAIL
<b>P.O.C.</b>	POINT OF CONNECTION	1/L4.2
<b>C</b>	RAIN BIRD CONTROLLER (ESP-LXMEF)	10/L4.2
<b>BP</b>	BACKFLOW PREVENTER	4/L4.2
⊗	BRASS BALL VALVE SHUTOFF	8/L4.2
⊕	RAIN BIRD PEB VALVE	11/L4.2
■	CONTROL VALVE ASSEMBLY - DRIP (XCZ-PRB-100-COM)	1/L4.1
-----	SCHEDULE 40 PVC MAINLINE	3/L4.2
-----	SCHEDULE 40 PVC SLEEVE, 4" MIN.	3/L4.2
-----	SCHEDULE 40 PVC LATERAL LINE	3/L4.2

### PIPE SIZING CHART

CLASS 200 PVC	
GPM	SIZE
1 - 10	3/4"
11 - 16	1"
17 - 26	1 - 1/4"
27 - 35	1 - 1/2"
36 - 55	2"
56 - 80	2 - 1/2"
81 - 120	3"

### EMITTER SCHEDULE

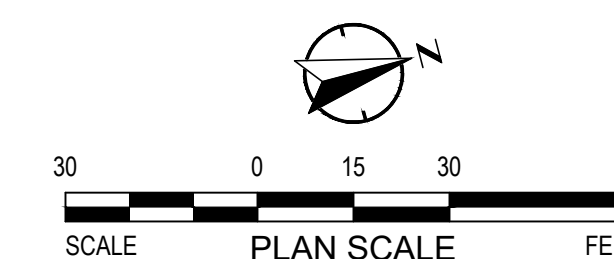
EMITTER SIZE	PLANT SPECIES	COUNT
XB - 05 PC	OPHIPOGON	1
XB - 10 PC	HAKONECHLOA	2
XB - 10 PC	HEUCHERA	2
XB - 10 PC	PICEA	2
XB - 20 PC	MAGNOLIA	2
XB - 10 PC	CUPRESSUS	2
XB - 20 PC	ILEX	2
XB - 05 PC	POTENTILLA	2
XB - 10 PC	PRUNUS	2

### IRRIGATION KEY

SYMBOL	DESCRIPTION	FLOW
	RAIN BIRD 15 STRIP SERIES	.61, 1.21, .49, .49, 1.21, 1.73 (GPM)
	EIGHT-OUTLET MANIFOLD XBD-80	SEE EMITTER SCHEDULE

### ZONE KEY

16	=	GPM
2 1"		



151



SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY

IRRIGATION PLAN KEY MAP

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960

Date: 1 February 2019  
Scale: 1"=5'  
Designed By: SRB  
Drawn By: OBT  
Checked By: MS

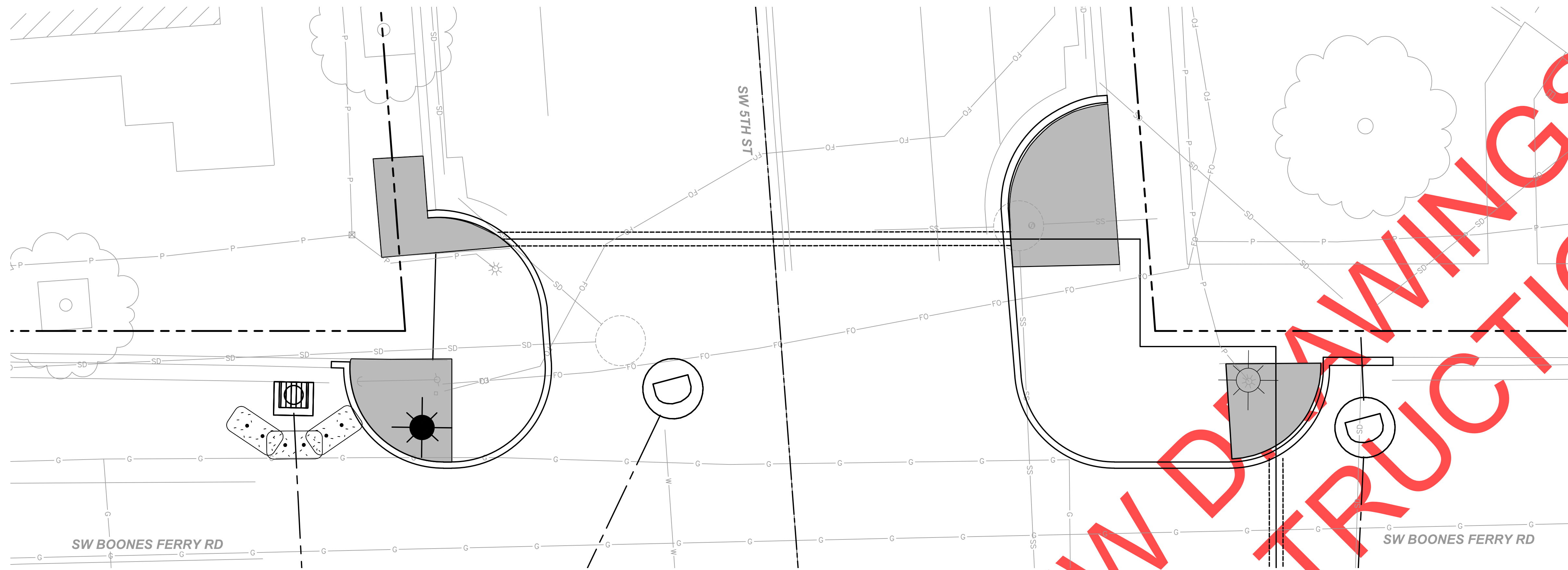
CIP # 4196  
PROJECT # 2017-02-001  
L101  
181 of 211

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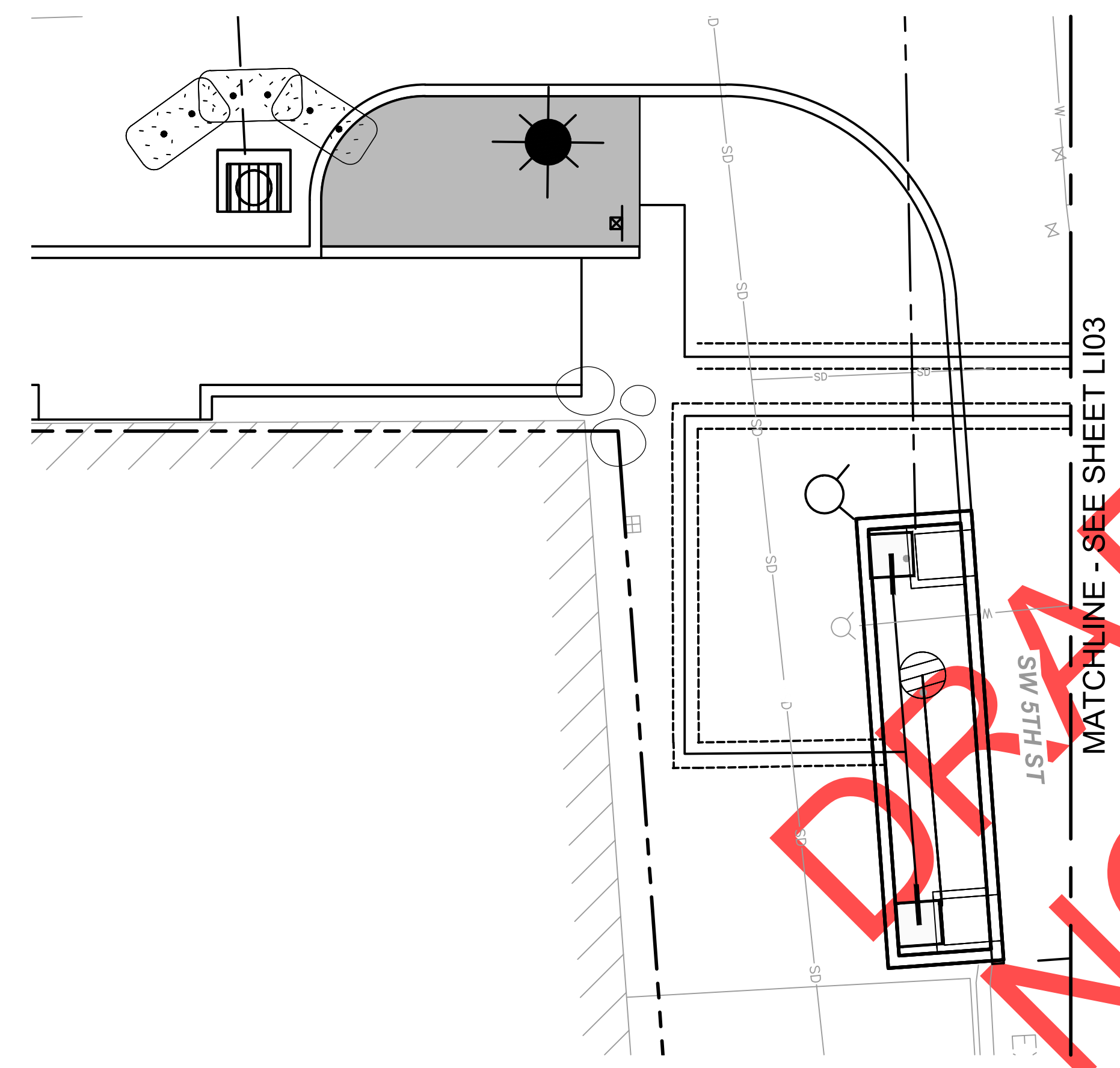
NOTE: SEE L4.1 AND L4.2 FOR IRRIGATION DETAILS

100% PLANS - NOT FOR CONSTRUCTION

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PLAN - 1  
SCALE: 1" = 5'



PLAN - 2  
SCALE: 1" = 5'

IRRIGATION LEGEND

- P.O.C.** POINT OF CONNECTION
- C** RAIN BIRD CONTROLLER
- BP** BACKFLOW PREVENTER
- ⊗** GATE VALVE SHUTOFF
- ⊙** RAIN BIRD PEB VALVE
- D** MANUAL DRAIN VALVE
- SCHEDULE 40 PVC MAINLINE
- - - SCHEDULE 40 PVC SLEEVE, 4" MIN.
- SCHEDULE 40 PVC LATERAL LINE
- RAIN BIRD 1812 PRS
- MULTI-OUTLET DRIP EMISSION DEVICE XBD-80
- RWS-B-X-1401

NO.	REVISIONS

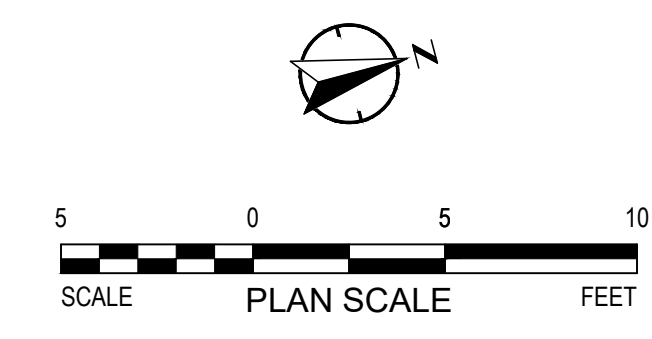
City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date	1 February 2019
Scale	1"=5'
Designed By	SRB
Drawn By	OBT
Checked By	MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
SW BOONES FERRY RD - 5TH TO BAILEY  
LANDSCAPE IRRIGATION PLAN

CIP #	4196
PROJECT #	2017-02-001
L102	
182 of 211	



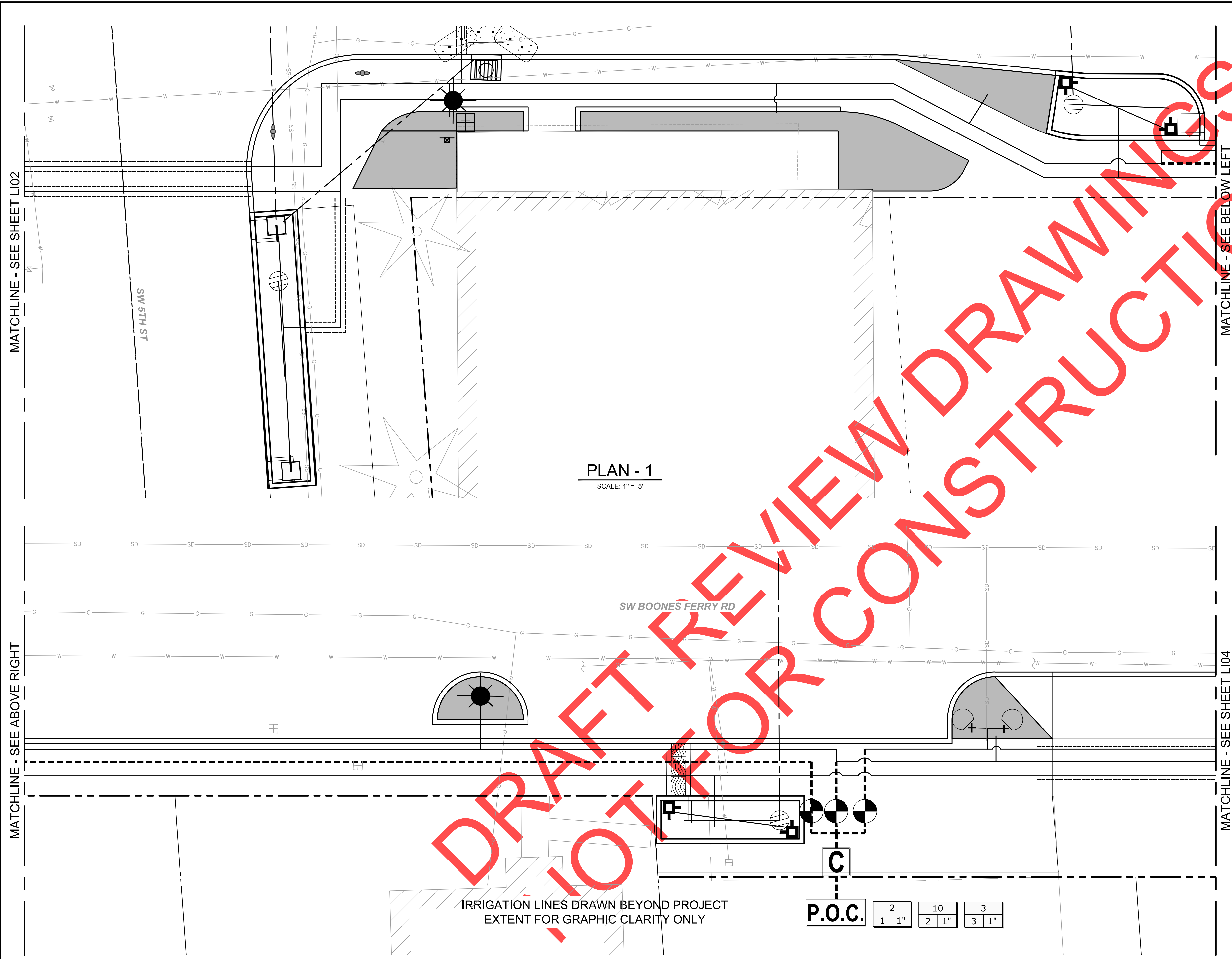
NOTE: SEE L4.1 AND L4.2 FOR IRRIGATION DETAILS

100% PLANS - NOT FOR CONSTRUCTION

DRAFT REVIEW DRAWINGS NOT FOR CONSTRUCTION



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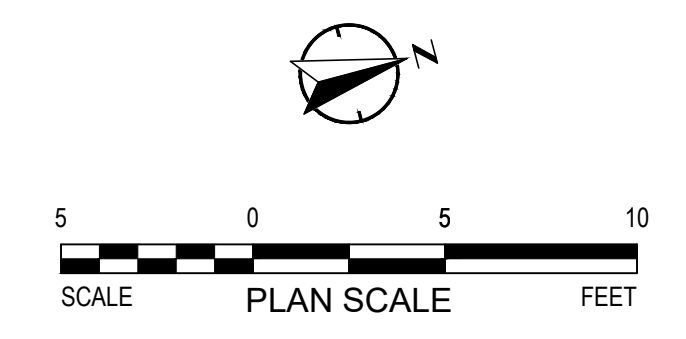
**PLAN - 1**  
SCALE: 1" = 5'

**PLAN - 2**  
SCALE: 1" = 5'

IRRIGATION LINES DRAWN BEYOND PROJECT  
EXTENT FOR GRAPHIC CLARITY ONLY

**IRRIGATION LEGEND**

<b>P.O.C.</b>	POINT OF CONNECTION
<b>C</b>	RAIN BIRD CONTROLLER
<b>BP</b>	BACKFLOW PREVENTER
	GATE VALVE SHUTOFF
	RAIN BIRD PEB VALVE
<b>D</b>	MANUAL DRAIN VALVE
	SCHEDULE 40 PVC MAINLINE
	SCHEDULE 40 PVC SLEEVE, 4" MIN.
	SCHEDULE 40 PVC LATERAL LINE
	RAIN BIRD 1812 PRS
	MULTI-OUTLET DRIP EMISSION DEVICE XBD-80
	RWS-B-X-1401



<b>P.O.C.</b>	2	10	3
	1 1"	2 1"	3 1"

 City of Wilsonville Engineering Department 29799 SW Town Center Loop E Wilsonville, OR 97070 Phone 503-682-4960	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">REVISIONS</p> <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>										
Date: 1 February 2019 Scale: 1"=5' Designed By: SRB Drawn By: OBT Checked By: MS											
<b>SW 5TH ST TO SW KINSMAN RD EXTENSION</b> <b>SW BOONES FERRY RD - 5TH TO BAILEY</b> LANDSCAPE IRRIGATION PLAN											
CIP # 4196 PROJECT # 2017-02-001 L103 183 of 211											

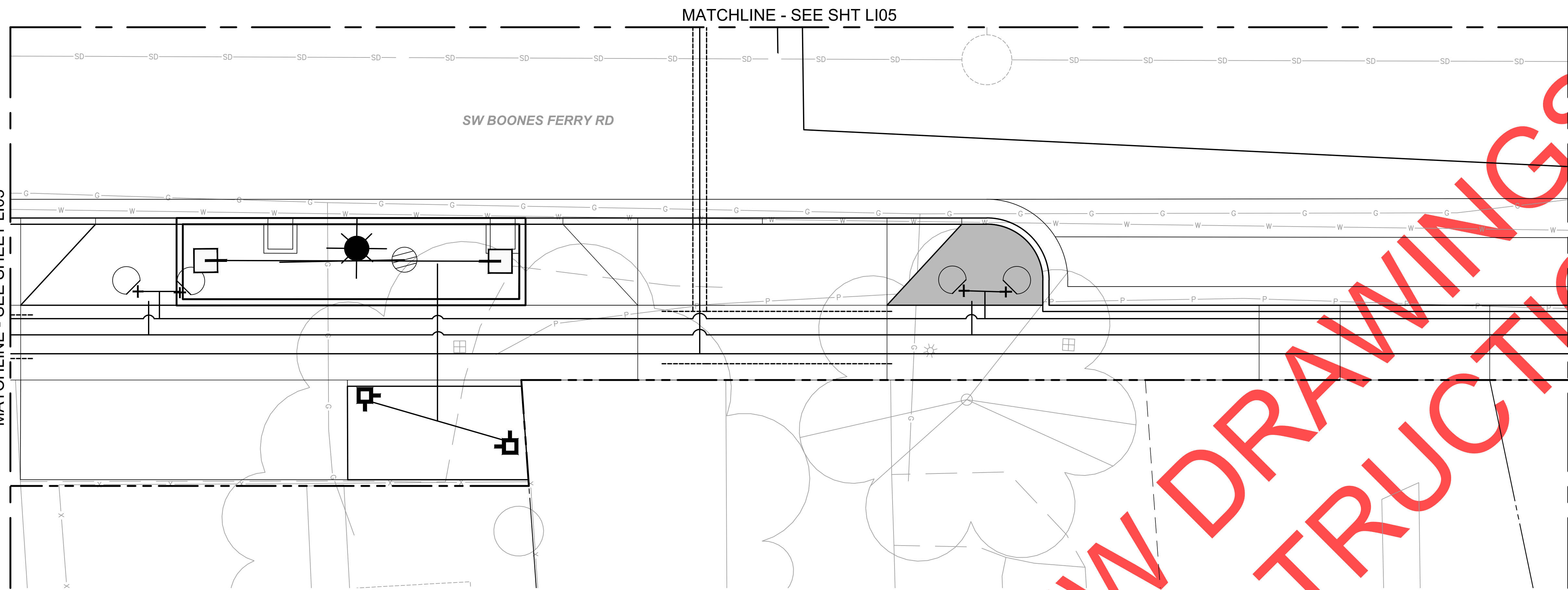
NOTE: SEE L4.1 AND L4.2 FOR IRRIGATION DETAILS

100% PLANS – NOT FOR CONSTRUCTION



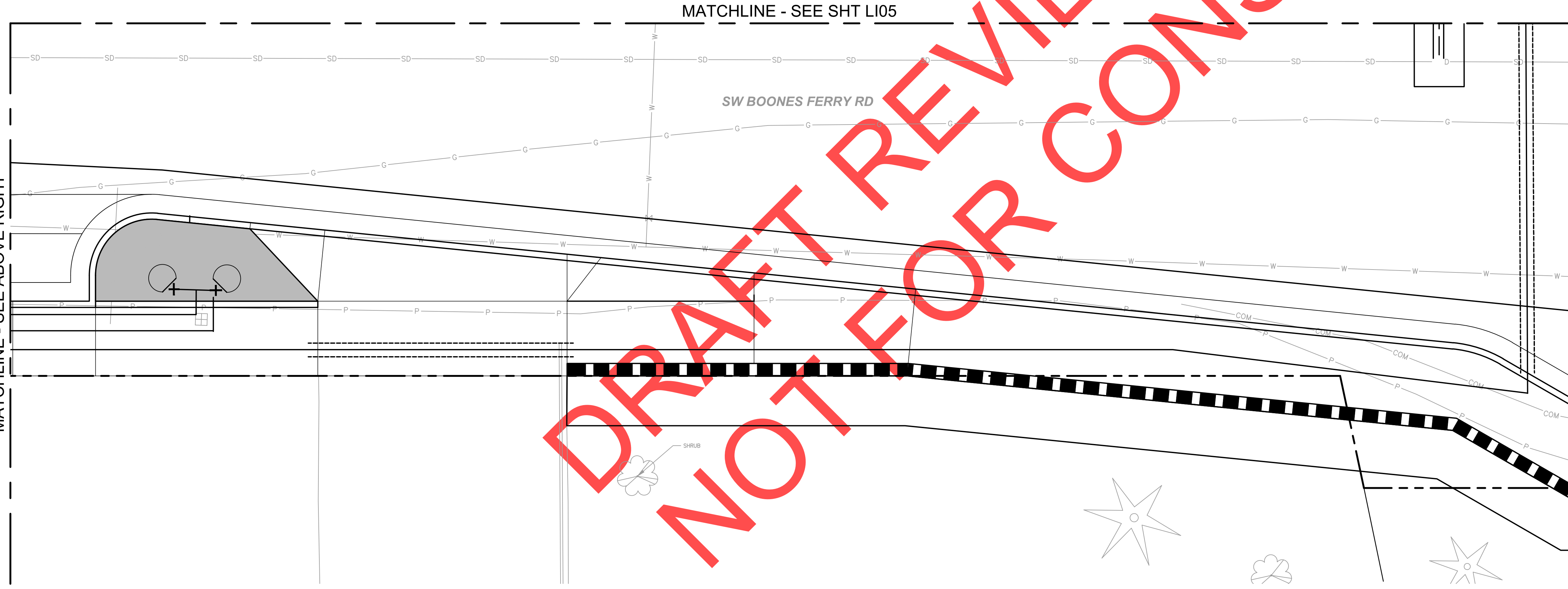
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MATCHLINE - SEE SHEET LI03



PLAN - 1  
SCALE: 1" = 5'

MATCHLINE - SEE ABOVE RIGHT



PLAN - 2  
SCALE: 1" = 5'

NOTE: SEE L4.1 AND L4.2 FOR IRRIGATION DETAILS

IRRIGATION LEGEND

- P.O.C.** POINT OF CONNECTION
- C** RAIN BIRD CONTROLLER
- BP** BACKFLOW PREVENTER
- ⊗** GATE VALVE SHUTOFF
- ⊙** RAIN BIRD PEB VALVE
- D** MANUAL DRAIN VALVE
- SCHEDULE 40 PVC MAINLINE
- - - SCHEDULE 40 PVC SLEEVE, 4" MIN.
- SCHEDULE 40 PVC LATERAL LINE
- ⊕ RAIN BIRD 1812 PRS
- MULTI-OUTLET DRIP EMISSION DEVICE XBD-80
- ⊕ RWS-B-X-1401

NO.	DESCRIPTION	DATE

REVISIONS

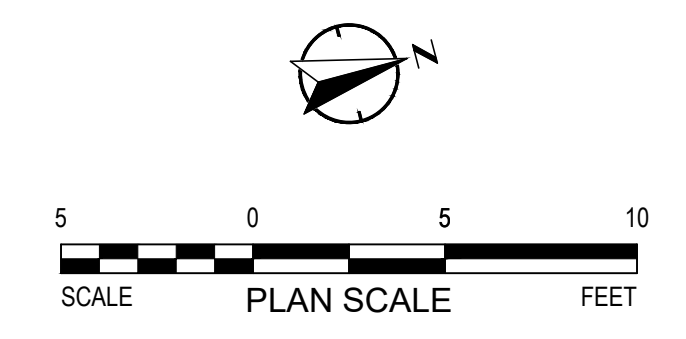
City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960



Date: 1 February 2019  
 Scale: 1"=5'  
 Designed By: SRB  
 Drawn By: OBT  
 Checked By: MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 SW BOONES FERRY RD - 5TH TO BAILEY  
 LANDSCAPE IRRIGATION PLAN

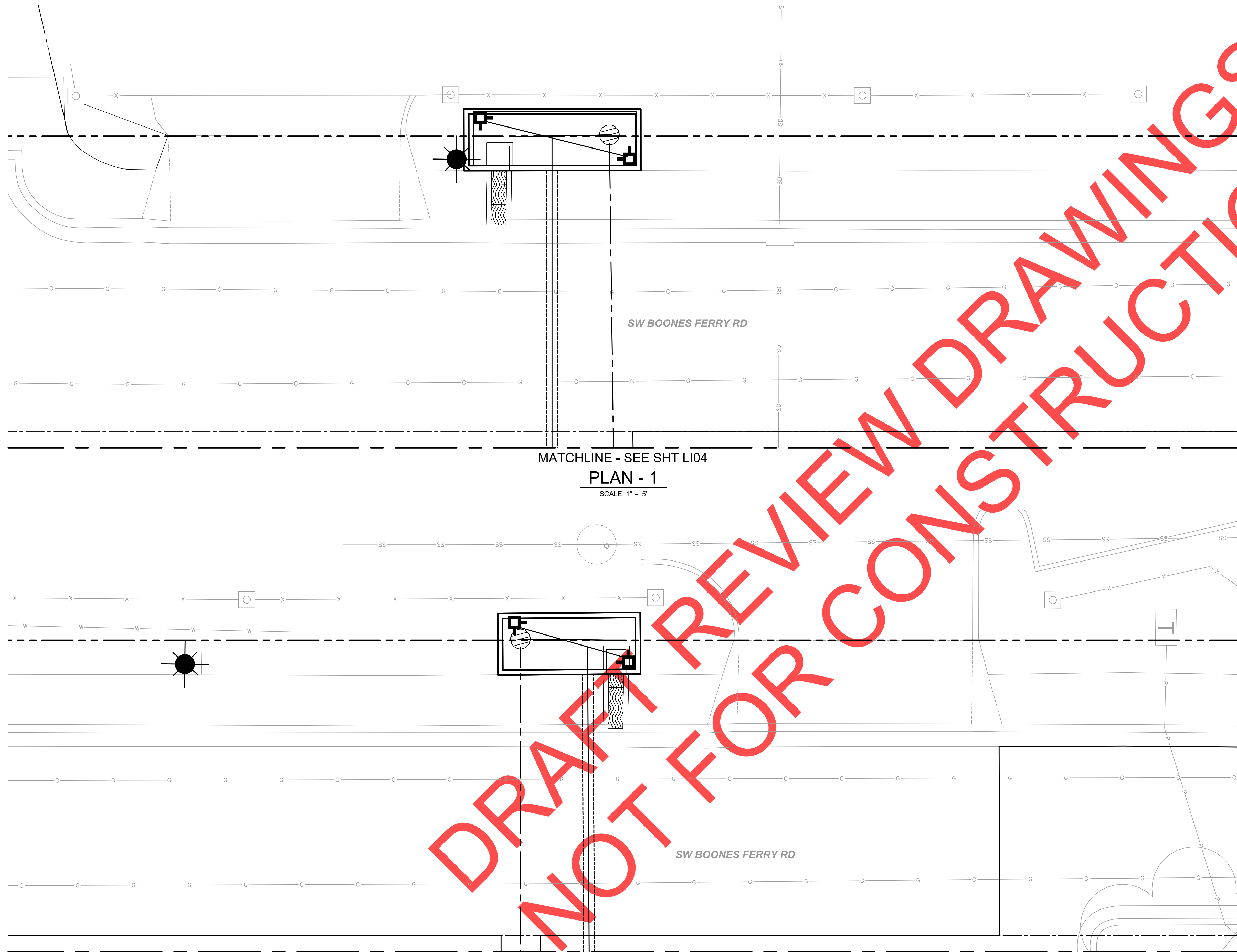
CIP # 4196  
 PROJECT # 2017-02-001  
 LI04  
 184 of 211



100% PLANS - NOT FOR CONSTRUCTION

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- IRRIGATION LEGEND**
- P.O.C.** POINT OF CONNECTION
  - C** RAIN BIRD CONTROLLER
  - BP** BACKFLOW PREVENTER
  - ⊗ GATE VALVE SHUTOFF
  - ⊙ RAIN BIRD PEB VALVE
  - D** MANUAL DRAIN VALVE
  - SCHEDULE 40 PVC MAINLINE
  - - - SCHEDULE 40 PVC SLEEVE, 4" MIN.
  - SCHEDULE 40 PVC LATERAL LINE
  - ⊕ RAIN BIRD 1812 PRS
  - ⊕ MULTI-OUTLET DRIP EMISSION DEVICE XBD-80
  - ⊕ RWS-B-X-1401

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 Engineering Department  
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 Wilsonville, OR 97070  
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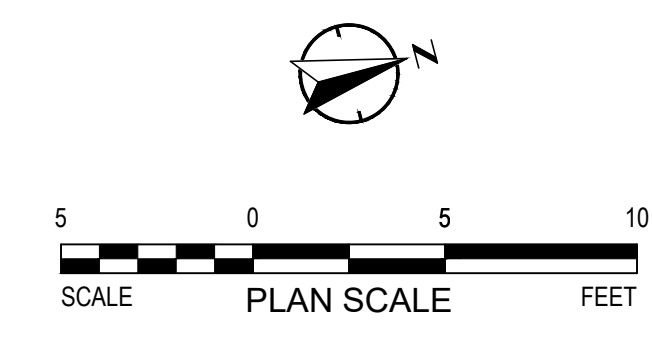
Date: 1 February 2019  
 Scale: 1"=5'  
 Designed By: SRB  
 Drawn By: OBT/MD  
 Checked By: MS

**SW 5TH ST TO SW KINSMAN RD EXTENSION**  
**SW BOONES FERRY RD - 5TH TO BAILEY**  
 LANDSCAPE IRRIGATION PLAN

CIP# 4196  
 PROJECT# 2017-02-001  
 LI05  
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MATCHLINE - SEE SHT LI04  
**PLAN - 1**  
 SCALE: 1" = 5'

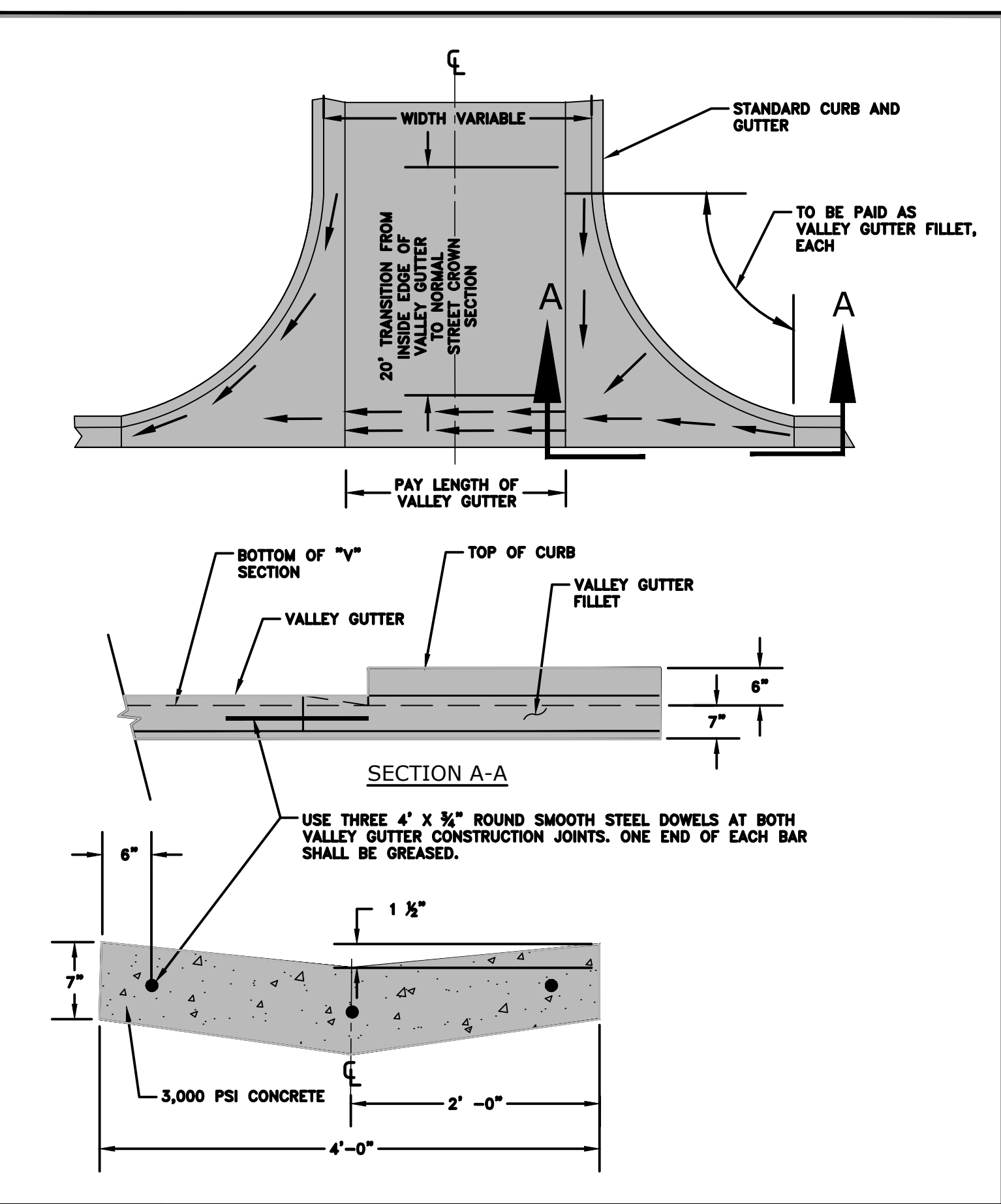
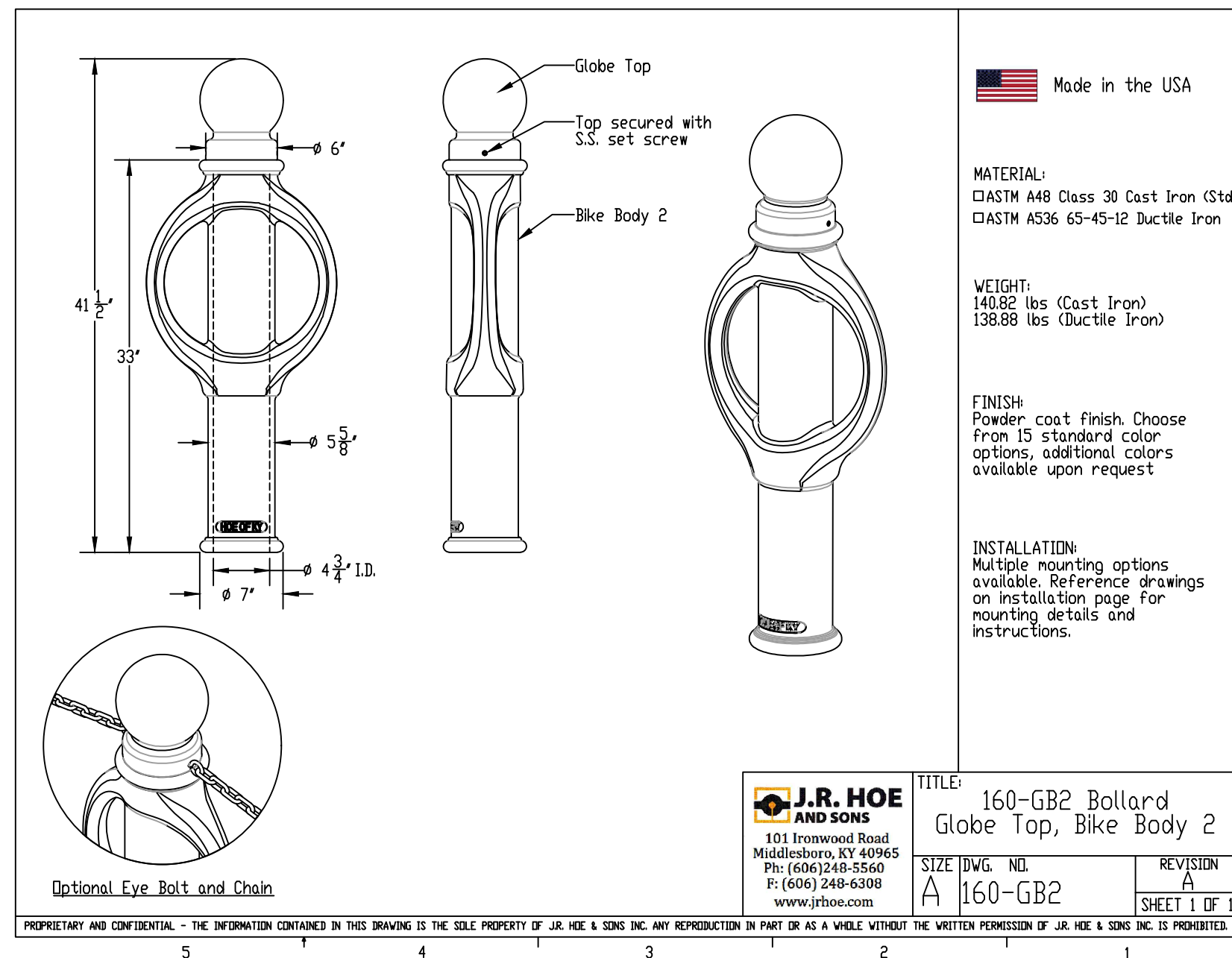
MATCHLINE - SEE SHT LI04  
**PLAN - 2**  
 SCALE: 1" = 5'



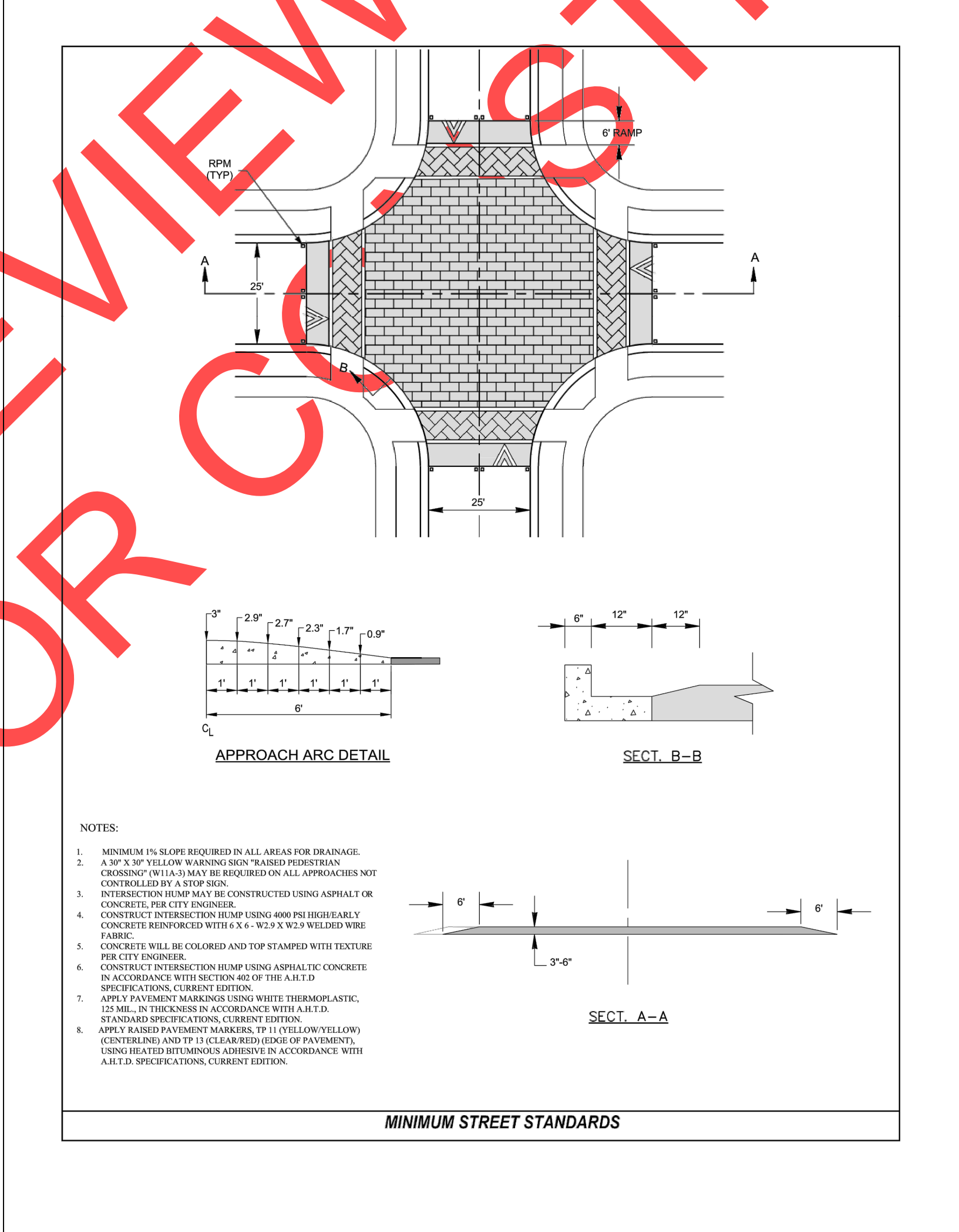
NOTE: SEE L4.1 AND L4.2 FOR IRRIGATION DETAILS

100% PLANS - NOT FOR CONSTRUCTION

DRAFT REVIEW DRAWINGS NOT FOR CONSTRUCTION



City of Lake Oswego Engineering Division Erica Rooney, P.E. - City Engineer	VALLEY GUTTER DETAIL	S2-04
	EFFECTIVE DATE: JANUARY 1, 2018	NOT TO SCALE
		DRAWING NUMBER



DRAFT REVIEW DRAWINGS NOT FOR CONSTRUCTION

REVISIONS

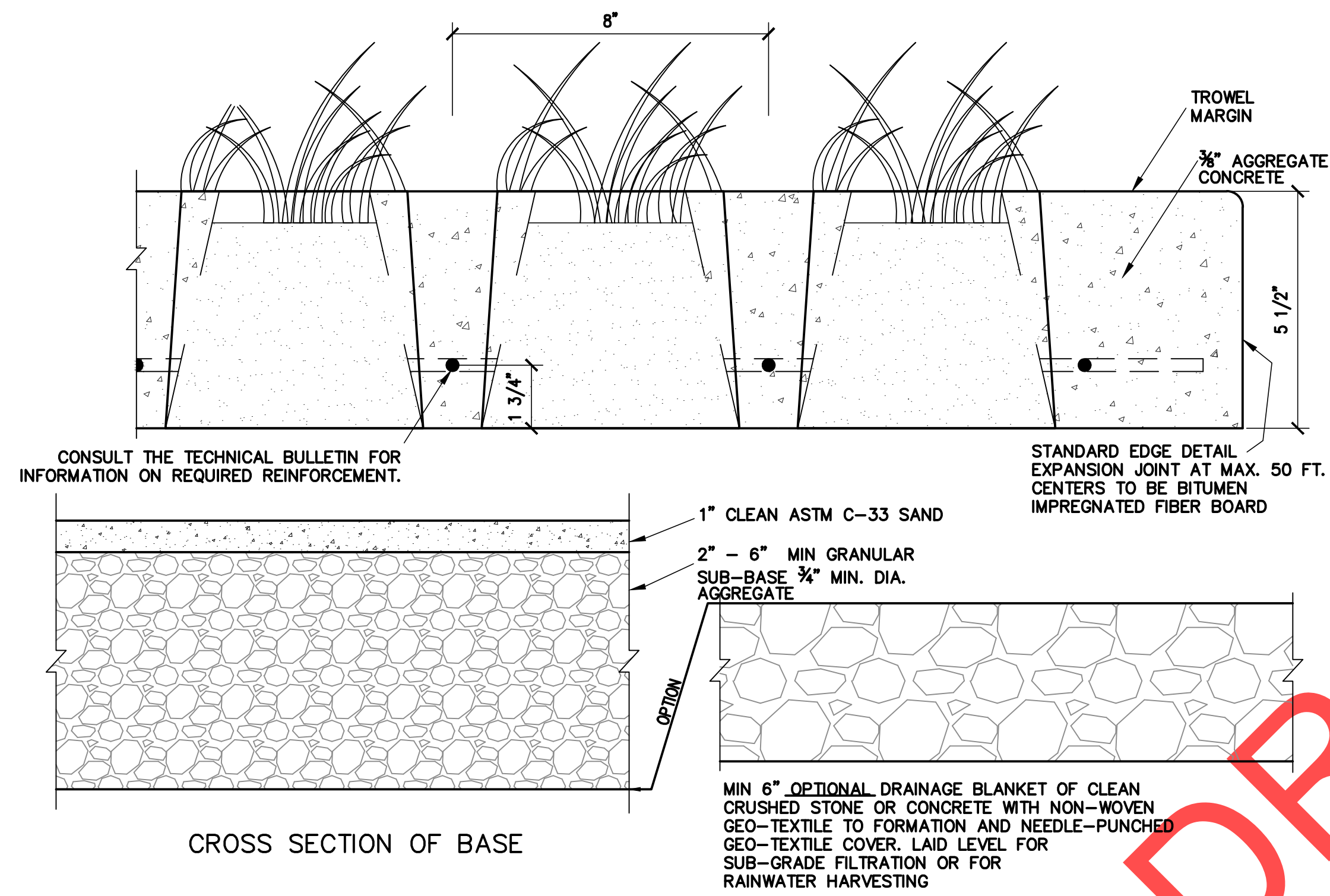
City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

Date	15 January 2019
Scale	AS SHOWN
Designed By	SRB
Drawn By	EA/MD/IR
Checked By	MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 STANDARD DETAILS

CIP #	4196
PROJECT #	2017-02-001
	DT13
	186 of 211

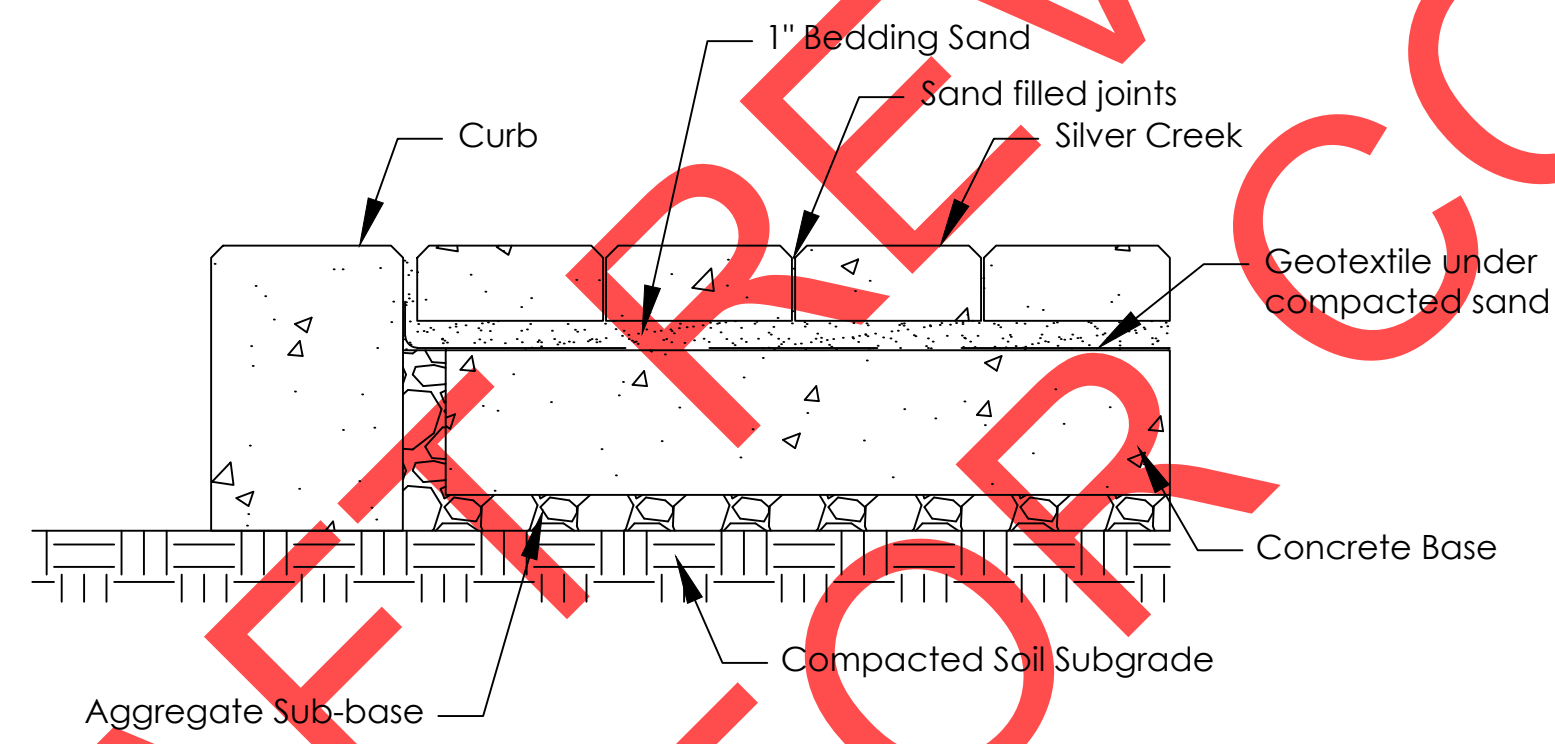




CROSS SECTION OF BASE

1 TURF BLOCK  
NTS

Section



Note:  
Base thickness and reinforcement required varies with site conditions.

2 SIDEWALK ON EXISTING CONCRETE  
NTS

Section

REVISIONS

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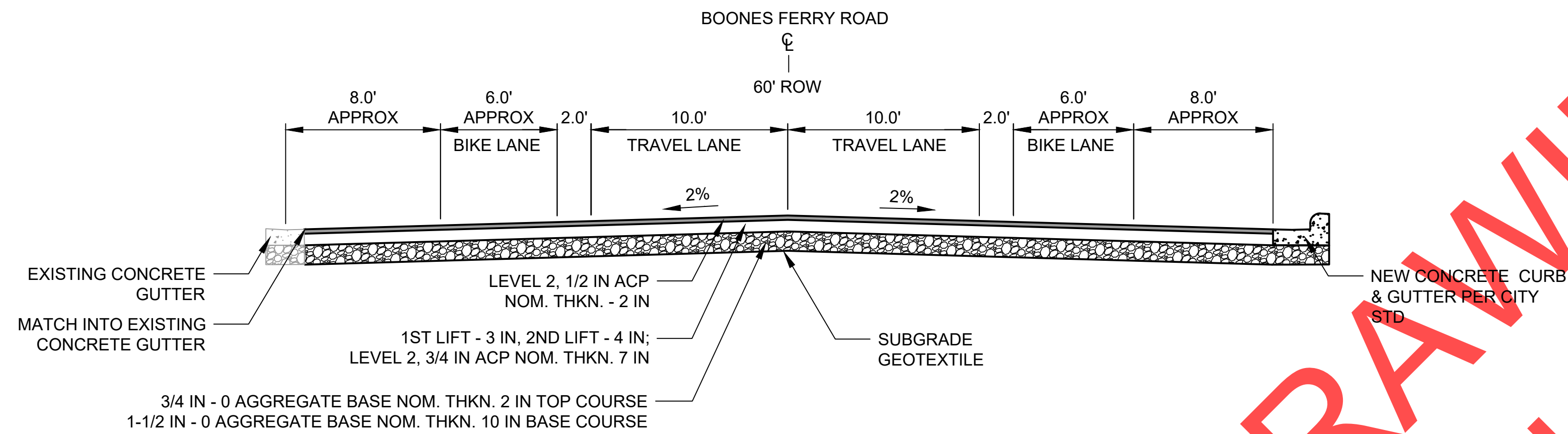


Date 15 January 2019  
Scale AS SHOWN  
Designed By SRB  
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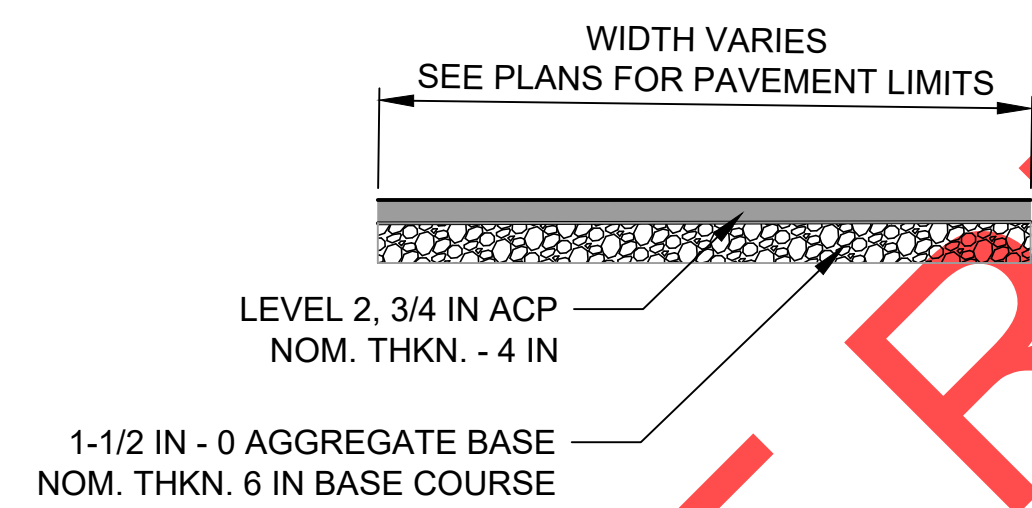
SW 5TH ST TO SW KINSMAN RD EXTENSION  
STANDARD DETAILS



CIP # 4196  
PROJECT # 2017-02-001  
DT14  
187 of 211



**1** BOONES FERRY ROAD - TYPICAL SECTION  
 NTS Section



**2** ASPHALT PATCH - TYPICAL SECTION  
 NTS Section

DRAFT REVIEW DRAWINGS  
 NOT FOR CONSTRUCTION

REVISIONS
-----------

City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960

Date	15 January 2019
Scale	AS SHOWN
Designed By	SRB
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Checked By	MS

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 STANDARD DETAILS



CIP #	4196
PROJECT #	2017-02-001
DT15	
188	of 211

WILSONVILLE RD.

KINSMAN RD.

ORE PAC AVENUE

COFFEE LAKE CREEK

INDUSTRIAL WAY

BAILEY STREET

P&W RAILWAY

BOONES FERRY RD.

5TH STREET

CP-01

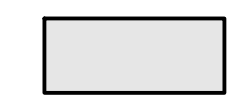
CP-02

CP-03

CP-05

CP-04

HATCH LEGEND



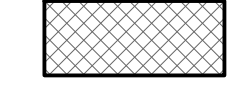
STAGE 1 (1ST CONSTRUCTION SEASON)

- 5TH STREET CREEK CROSSING
- IWW (JULY 15 - OCTOBER 15)
- RAILROAD CROSSING UTILITY WORK
- KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
- OREPAC DRIVEWAY
- SANITARY SEWER CONSTRUCTION
- WATER LINE CONSTRUCTION
- DETOUR ROADS



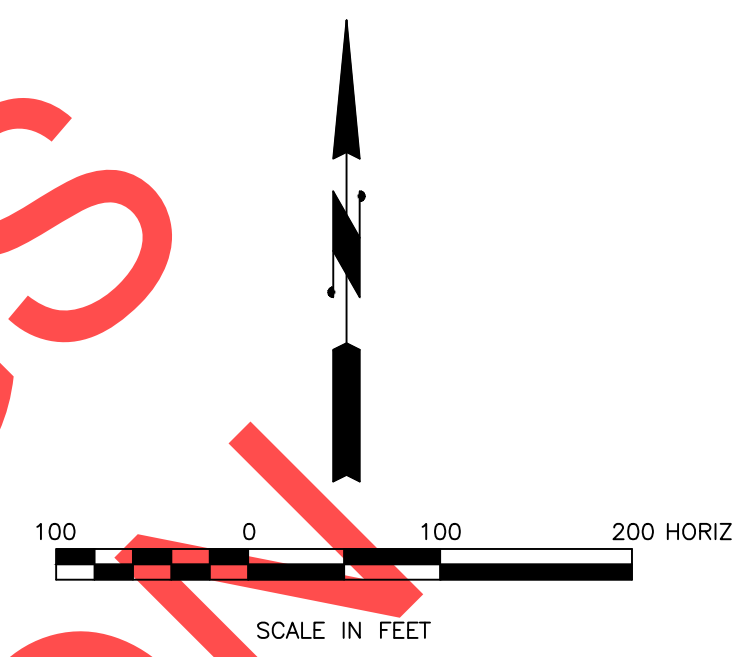
STAGE 2 (2ND CONSTRUCTION SEASON)

- KINSMAN ROAD CREEK CROSSING
- IWW (JULY 15 - OCTOBER 15)
- KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
- UTILITY CONSTRUCTION
- DEMO ARROWHEAD CREEK LANE



STAGE 3 (WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)

- BOONES FERRY ROAD IMPROVEMENTS
- UTILITY CONSTRUCTION
- 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
- 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
- INTERSECTION AT BOONES FERRY ROAD



WINGS JUNCTION

DRAFT REVIEW FOR CONSTRUCTION

REVISIONS

PRELIMINARY

City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960



Date 1 February 2019  
 Scale AS SHOWN  
 Designed By PH/BB  
 Drawn By EID  
 Checked By A HENDY

SW 5TH ST TO SW KINSMAN RD EXTENSION  
 CONSTRUCTION STAGING INDEX MAP



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 700 Washington St., Suite 300  
 Vancouver, WA 98660  
 360.737.9613  
 www.otak.com

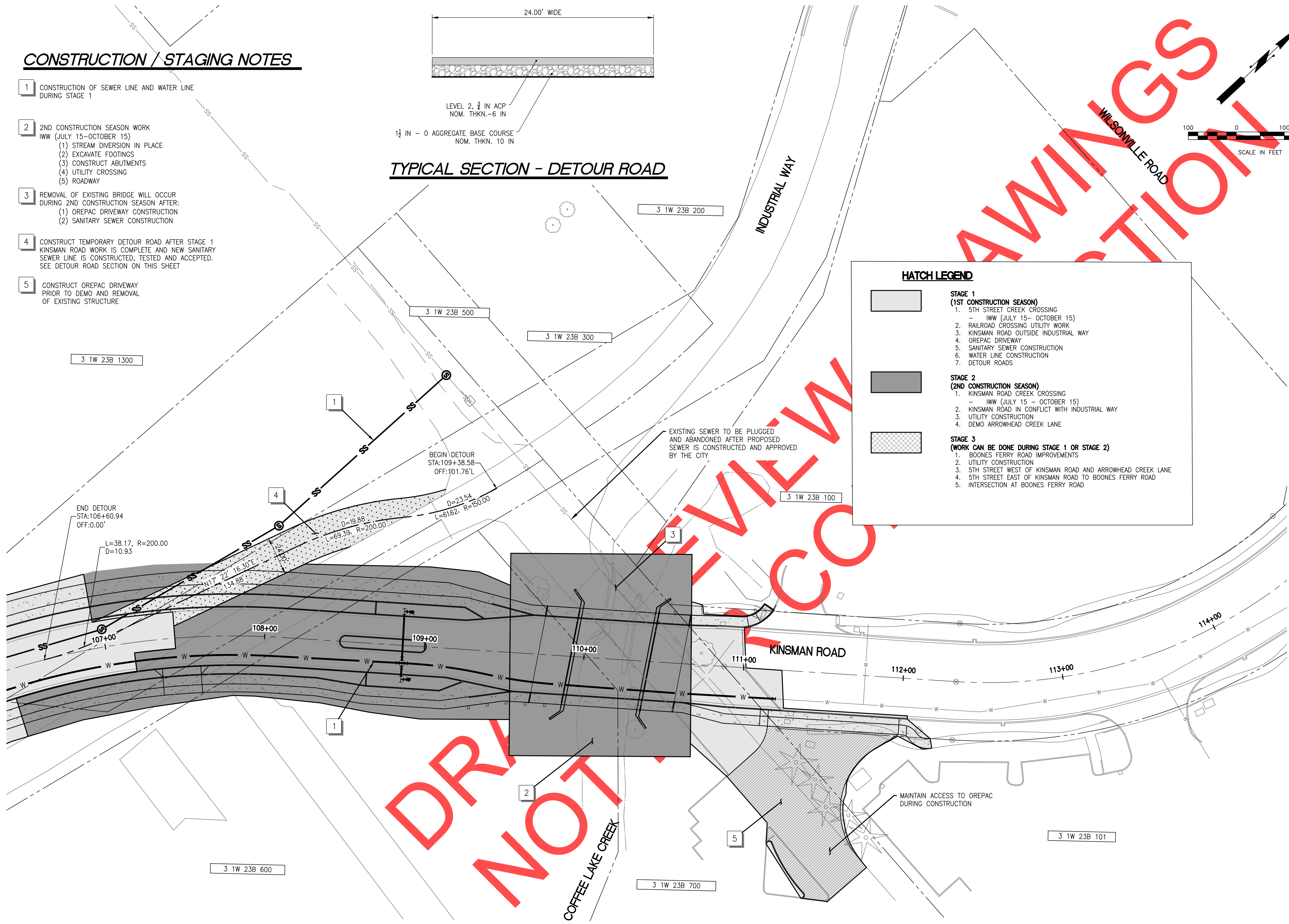
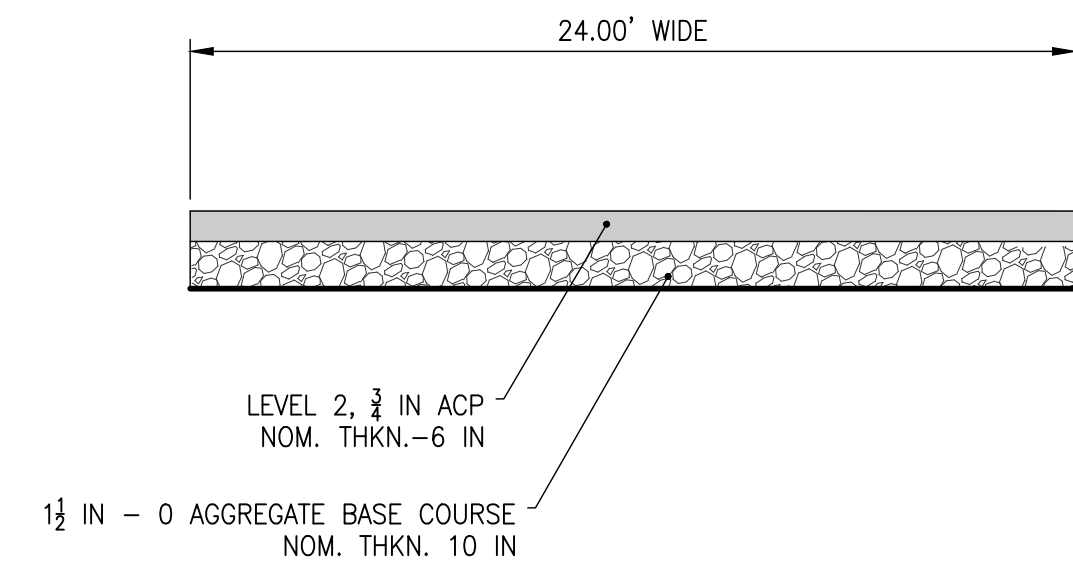
CIP # 4196  
 PROJECT # 2017-02-001  
 CP-00  
 188 of 211

REVIEW SET - NOT FOR CONSTRUCTION

**CONSTRUCTION / STAGING NOTES**

- 1 CONSTRUCTION OF SEWER LINE AND WATER LINE DURING STAGE 1
- 2 2ND CONSTRUCTION SEASON WORK IWW (JULY 15-OCTOBER 15)
  - (1) STREAM DIVERSION IN PLACE
  - (2) EXCAVATE FOOTINGS
  - (3) CONSTRUCT ABUTMENTS
  - (4) UTILITY CROSSING
  - (5) ROADWAY
- 3 REMOVAL OF EXISTING BRIDGE WILL OCCUR DURING 2ND CONSTRUCTION SEASON AFTER:
  - (1) OREPAC DRIVEWAY CONSTRUCTION
  - (2) SANITARY SEWER CONSTRUCTION
- 4 CONSTRUCT TEMPORARY DETOUR ROAD AFTER STAGE 1 KINSMAN ROAD WORK IS COMPLETE AND NEW SANITARY SEWER LINE IS CONSTRUCTED, TESTED AND ACCEPTED. SEE DETOUR ROAD SECTION ON THIS SHEET
- 5 CONSTRUCT OREPAC DRIVEWAY PRIOR TO DEMO AND REMOVAL OF EXISTING STRUCTURE

**TYPICAL SECTION - DETOUR ROAD**



**HATCH LEGEND**

**STAGE 1 (1ST CONSTRUCTION SEASON)**

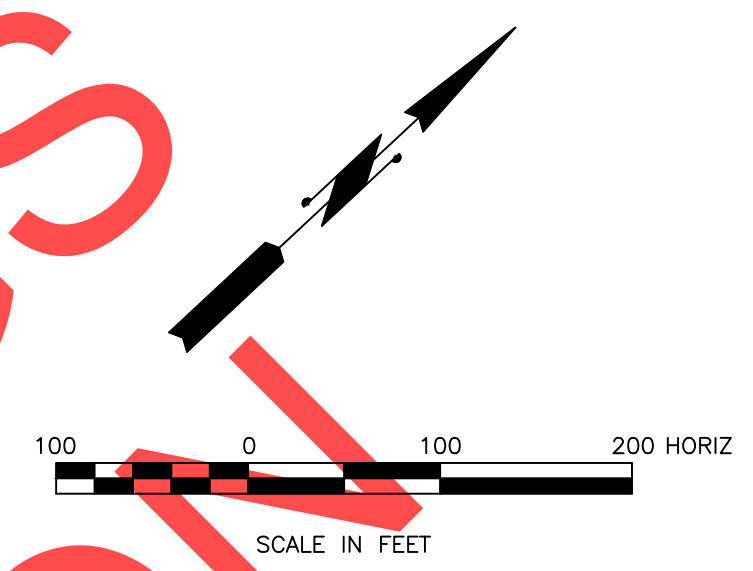
1. 5TH STREET CREEK CROSSING - IWW (JULY 15- OCTOBER 15)
2. RAILROAD CROSSING UTILITY WORK
3. KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
4. OREPAC DRIVEWAY
5. SANITARY SEWER CONSTRUCTION
6. WATER LINE CONSTRUCTION
7. DETOUR ROADS

**STAGE 2 (2ND CONSTRUCTION SEASON)**

1. KINSMAN ROAD CREEK CROSSING - IWW (JULY 15 - OCTOBER 15)
2. KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
3. UTILITY CONSTRUCTION
4. DEMO ARROWHEAD CREEK LANE

**STAGE 3 (WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)**

1. BOONES FERRY ROAD IMPROVEMENTS
2. UTILITY CONSTRUCTION
3. 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
4. 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
5. INTERSECTION AT BOONES FERRY ROAD



REVISIONS


**PRELIMINARY**

City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960



Date: 1 February 2019  
 Scale: AS SHOWN  
 Designed By: PH/BB  
 Drawn By: EID  
 Checked By: A HENDY

**SW 5TH ST TO SW KINSMAN RD EXTENSION  
 CONSTRUCTION STAGING - KINSMAN RD**



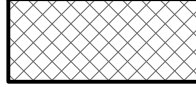
**Otak**  
 Otak, Inc.  
 700 Washington St., Suite 300  
 Vancouver, WA 98660  
 360. 737. 9613  
 www.otak.com

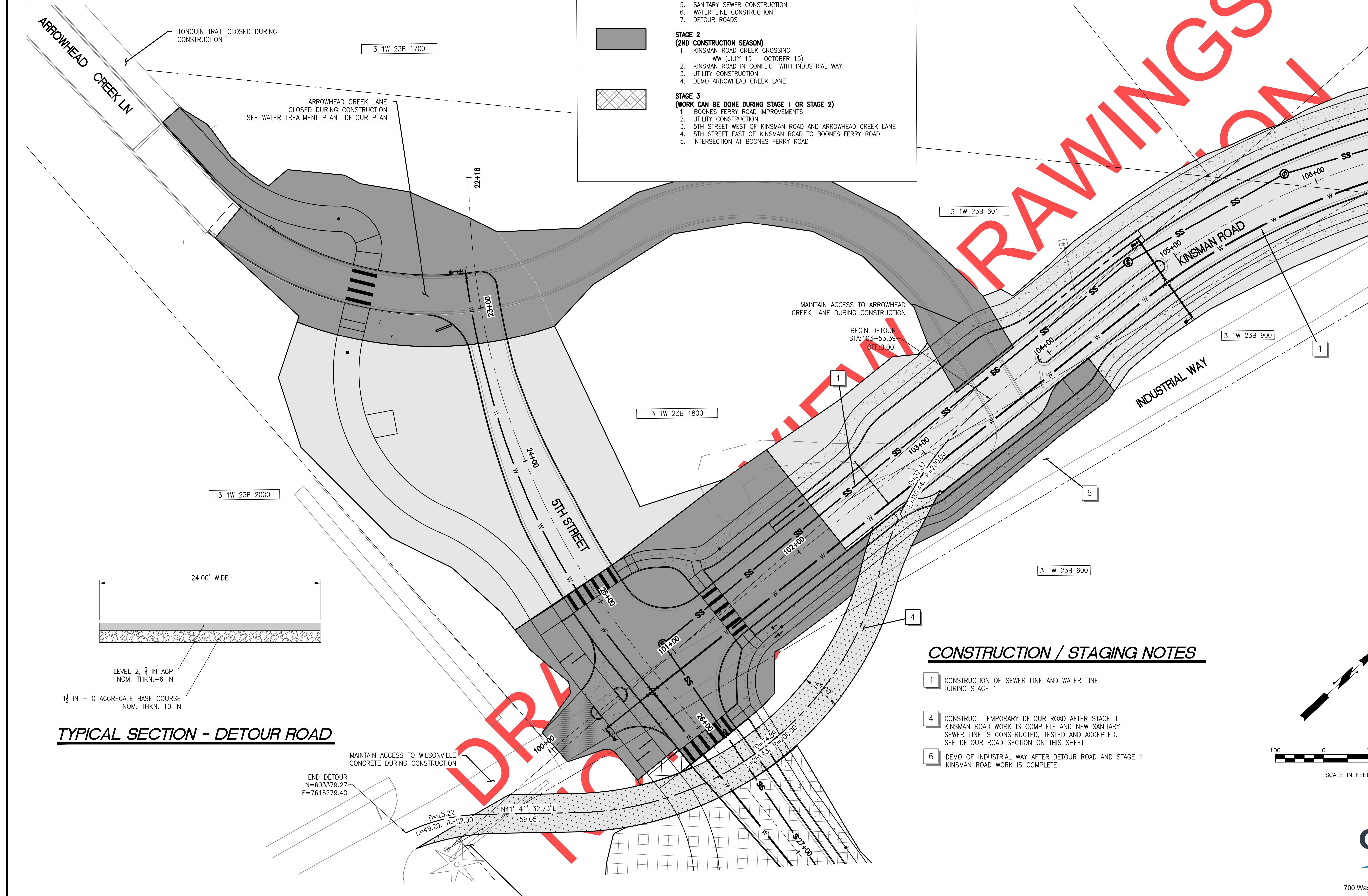
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 PROJECT # 2017-02-001  
 CP-01  
 189 of 211

REVIEW SET - NOT FOR CONSTRUCTION

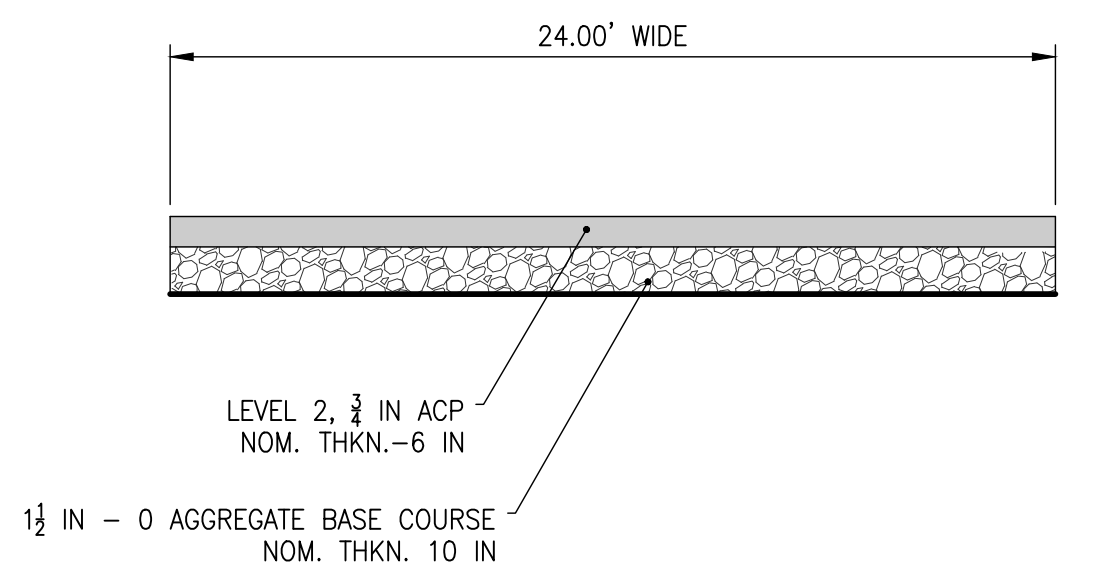


**HATCH LEGEND**

-  **STAGE 1 (1ST CONSTRUCTION SEASON)**
- 1. 5TH STREET CREEK CROSSING  
- IWW (JULY 15 - OCTOBER 15)
- 2. RAILROAD CROSSING UTILITY WORK
- 3. KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
- 4. OREPAC DRIVEWAY
- 5. SANITARY SEWER CONSTRUCTION
- 6. WATER LINE CONSTRUCTION
- 7. DETOUR ROADS
-  **STAGE 2 (2ND CONSTRUCTION SEASON)**
- 1. KINSMAN ROAD CREEK CROSSING  
- IWW (JULY 15 - OCTOBER 15)
- 2. KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
- 3. UTILITY CONSTRUCTION
- 4. DEMO ARROWHEAD CREEK LANE
-  **STAGE 3 (WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)**
- 1. BOONES FERRY ROAD IMPROVEMENTS
- 2. UTILITY CONSTRUCTION
- 3. 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
- 4. 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
- 5. INTERSECTION AT BOONES FERRY ROAD



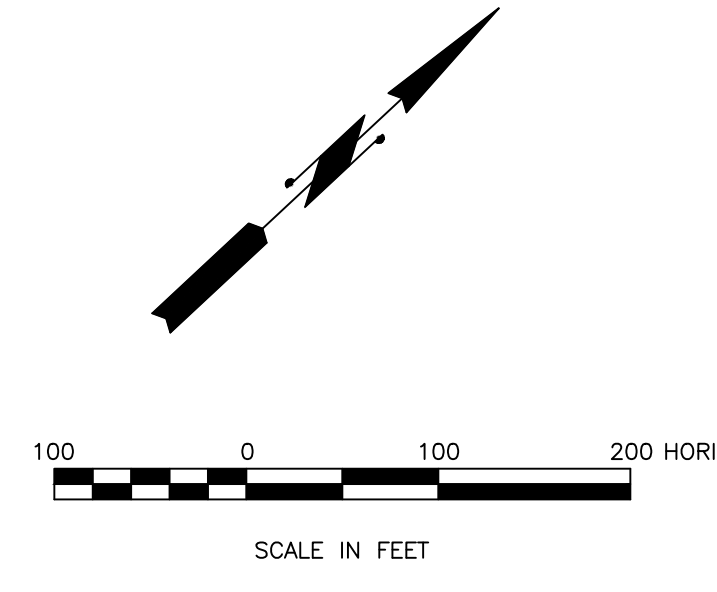
**PRELIMINARY DRAWINGS**



**TYPICAL SECTION - DETOUR ROAD**

**CONSTRUCTION / STAGING NOTES**

- 1 CONSTRUCTION OF SEWER LINE AND WATER LINE DURING STAGE 1
- 4 CONSTRUCT TEMPORARY DETOUR ROAD AFTER STAGE 1 KINSMAN ROAD WORK IS COMPLETE AND NEW SANITARY SEWER LINE IS CONSTRUCTED, TESTED AND ACCEPTED. SEE DETOUR ROAD SECTION ON THIS SHEET
- 6 DEMO OF INDUSTRIAL WAY AFTER DETOUR ROAD AND STAGE 1 KINSMAN ROAD WORK IS COMPLETE



END DETOUR  
N=603379.27  
E=7616279.40

REMOVE BLOCK WALL.  
APPROX 40'. SALVAGE FOR CITY

NO.	REVISIONS

**PRELIMINARY**

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date 1 February 2019  
Scale AS SHOWN  
Designed By PH/BB  
Drawn By EID  
Checked By A HENDY

**SW 5TH ST TO SW KINSMAN RD EXTENSION  
CONSTRUCTION STAGING - KINSMAN RD**

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Otak, Inc.  
700 Washington St., Suite 300  
Vancouver, WA 98660  
360.737.9613  
www.otak.com

CIP # 4196  
PROJECT # 2017-02-001  
CP-02  
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**HATCH LEGEND**



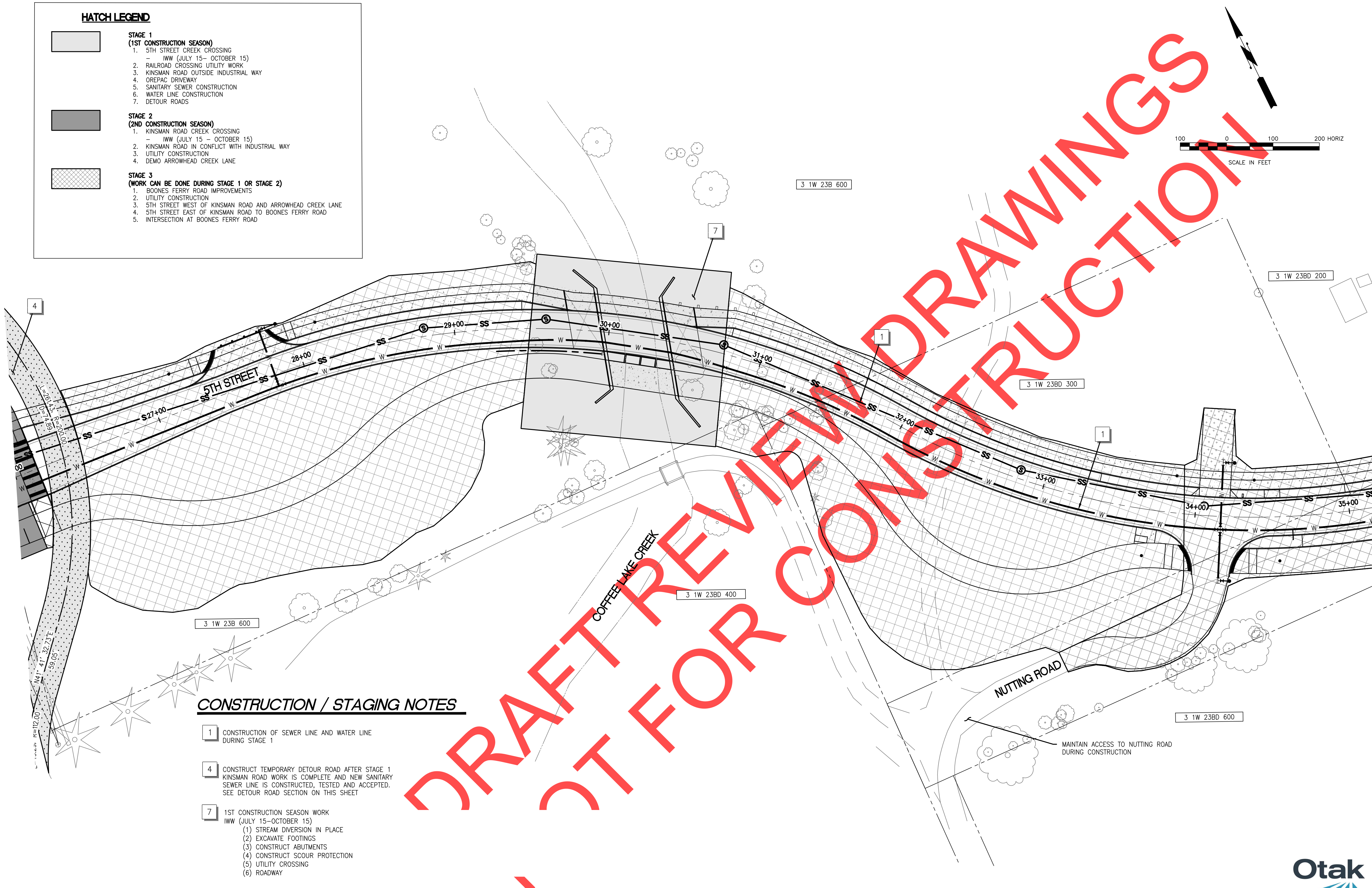
- STAGE 1  
(1ST CONSTRUCTION SEASON)**
- 5TH STREET CREEK CROSSING  
- IWW (JULY 15- OCTOBER 15)
  - RAILROAD CROSSING UTILITY WORK
  - KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
  - OREPAC DRIVEWAY
  - SANITARY SEWER CONSTRUCTION
  - WATER LINE CONSTRUCTION
  - DETOUR ROADS



- STAGE 2  
(2ND CONSTRUCTION SEASON)**
- KINSMAN ROAD CREEK CROSSING  
- IWW (JULY 15 - OCTOBER 15)
  - KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
  - UTILITY CONSTRUCTION
  - DEMO ARROWHEAD CREEK LANE



- STAGE 3  
(WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)**
- BOONES FERRY ROAD IMPROVEMENTS
  - UTILITY CONSTRUCTION
  - 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
  - 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
  - INTERSECTION AT BOONES FERRY ROAD



**CONSTRUCTION / STAGING NOTES**

- CONSTRUCTION OF SEWER LINE AND WATER LINE DURING STAGE 1
- CONSTRUCT TEMPORARY DETOUR ROAD AFTER STAGE 1 KINSMAN ROAD WORK IS COMPLETE AND NEW SANITARY SEWER LINE IS CONSTRUCTED, TESTED AND ACCEPTED. SEE DETOUR ROAD SECTION ON THIS SHEET
- 1ST CONSTRUCTION SEASON WORK  
IWW (JULY 15-OCTOBER 15)  
  - STREAM DIVERSION IN PLACE
  - EXCAVATE FOOTINGS
  - CONSTRUCT ABUTMENTS
  - CONSTRUCT SCOUR PROTECTION
  - UTILITY CROSSING
  - ROADWAY

REVISIONS

PRELIMINARY

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date: 1 February 2019  
Scale: 20 SCALE  
Designed By: PH/BB  
Drawn By: EID  
Checked By: A HENDY

SW 5TH ST TO SW KINSMAN RD EXTENSION  
CONSTRUCTION STAGING - 5TH STREET

**Otak**  
Otak, Inc.  
700 Washington St., Suite 300  
Vancouver, WA 98660  
360.737.9613  
www.otak.com

CIP # 4196  
PROJECT # 2017-02-001  
CP-03  
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**HATCH LEGEND**



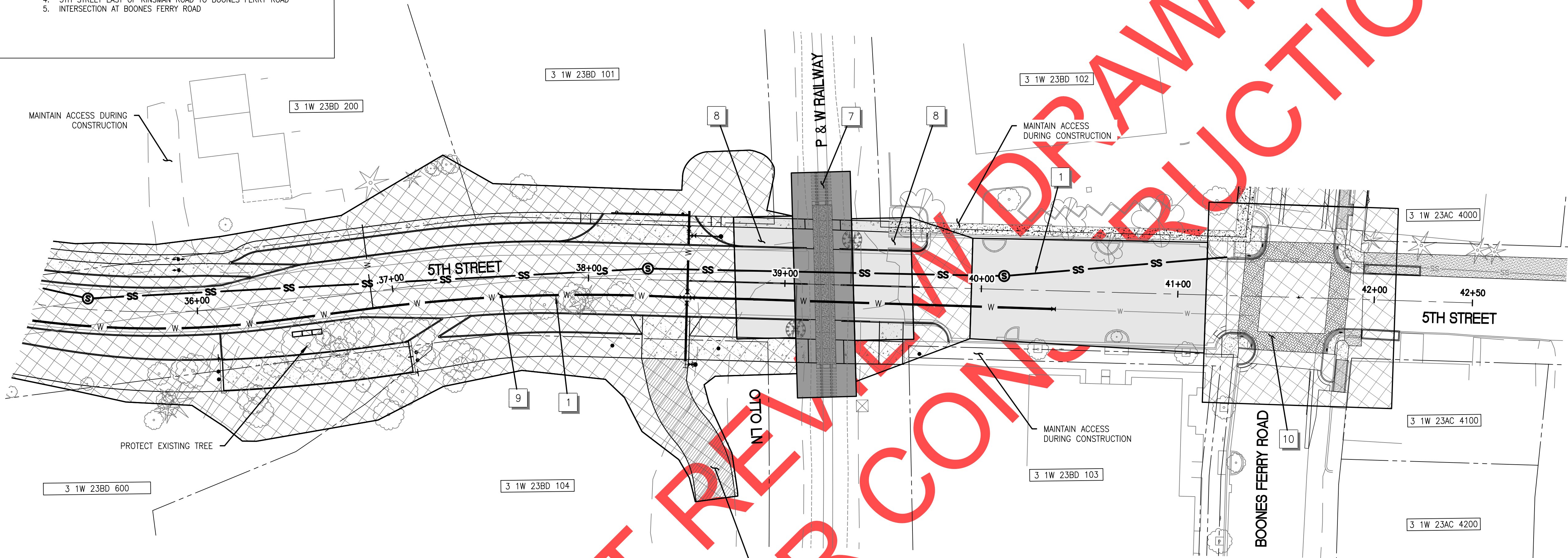
- STAGE 1  
(1ST CONSTRUCTION SEASON)**
- 5TH STREET CREEK CROSSING  
- IWW (JULY 15 - OCTOBER 15)
  - RAILROAD CROSSING UTILITY WORK
  - KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
  - OREPAC DRIVEWAY
  - SANITARY SEWER CONSTRUCTION
  - WATER LINE CONSTRUCTION
  - DETOUR ROADS



- STAGE 2  
(2ND CONSTRUCTION SEASON)**
- KINSMAN ROAD CREEK CROSSING  
- IWW (JULY 15 - OCTOBER 15)
  - KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
  - UTILITY CONSTRUCTION
  - DEMO ARROWHEAD CREEK LANE



- STAGE 3  
(WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)**
- BOONES FERRY ROAD IMPROVEMENTS
  - UTILITY CONSTRUCTION
  - 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
  - 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
  - INTERSECTION AT BOONES FERRY ROAD



**CONSTRUCTION / STAGING NOTES**

- CONSTRUCTION OF SEWER LINE AND WATER LINE DURING STAGE 1
- RAILROAD WORK 2ND CONSTRUCTION SEASON. WORK BY OTHERS
- UTILITY CROSSING WORK DONE DURING 1ST CONSTRUCTION SEASON
- CONSTRUCT 5TH STREET IN HALF STREET CONFIGURATION TO MAINTAIN ACCESS BETWEEN RAILROAD TRACKS AND NUTTING ROAD
- CONSTRUCT INTERSECTION IN HALVES OR QUARTERS. ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES.

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REVISIONS

PRELIMINARY

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960





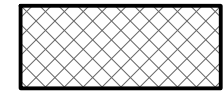
Date: 1 February 2019  
Scale: AS SHOWN  
Designed By: PH/BB  
Drawn By: EID  
Checked By: A HENDY

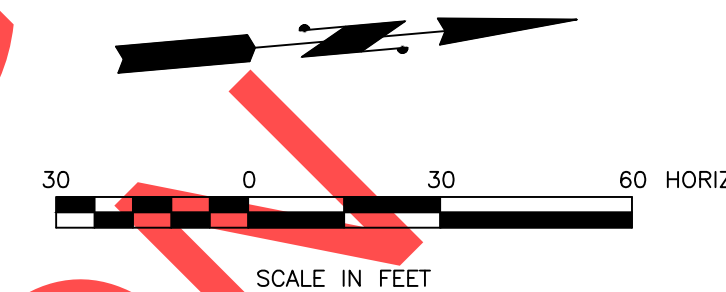
SW 5TH ST TO SW KINSMAN RD EXTENSION  
CONSTRUCTION STAGING  
5TH ST & BOONES FERRY RD

**Otak**  
Otak, Inc.  
700 Washington St., Suite 300  
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360.737.9613  
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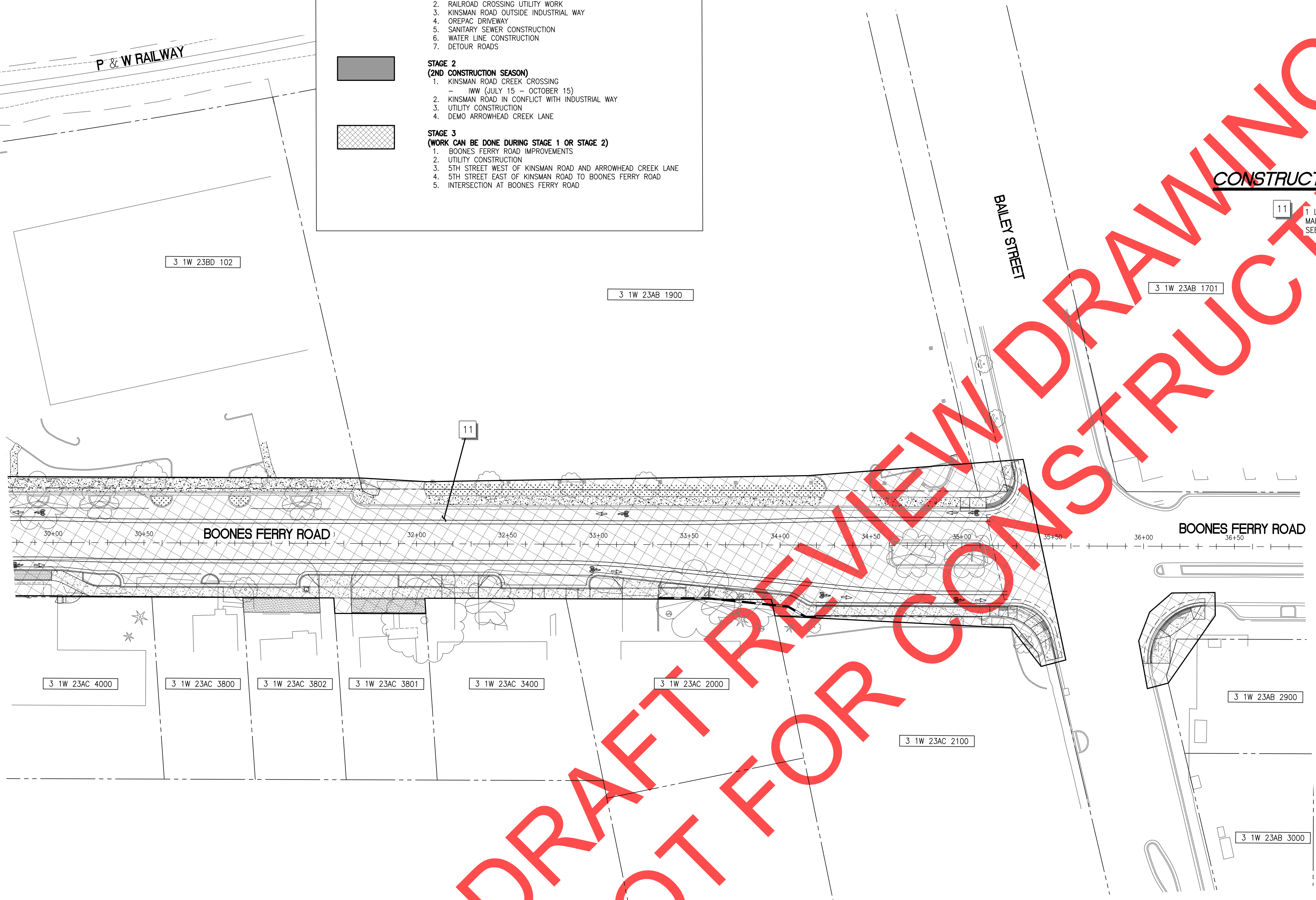
**HATCH LEGEND**

-  **STAGE 1 (1ST CONSTRUCTION SEASON)**
  1. 5TH STREET CREEK CROSSING - IWW (JULY 15 - OCTOBER 15)
  2. RAILROAD CROSSING UTILITY WORK
  3. KINSMAN ROAD OUTSIDE INDUSTRIAL WAY
  4. OREPAC DRIVEWAY
  5. SANITARY SEWER CONSTRUCTION
  6. WATER LINE CONSTRUCTION
  7. DETOUR ROADS
-  **STAGE 2 (2ND CONSTRUCTION SEASON)**
  1. KINSMAN ROAD CREEK CROSSING - IWW (JULY 15 - OCTOBER 15)
  2. KINSMAN ROAD IN CONFLICT WITH INDUSTRIAL WAY
  3. UTILITY CONSTRUCTION
  4. DEMO ARROWHEAD CREEK LANE
-  **STAGE 3 (WORK CAN BE DONE DURING STAGE 1 OR STAGE 2)**
  1. BOONES FERRY ROAD IMPROVEMENTS
  2. UTILITY CONSTRUCTION
  3. 5TH STREET WEST OF KINSMAN ROAD AND ARROWHEAD CREEK LANE
  4. 5TH STREET EAST OF KINSMAN ROAD TO BOONES FERRY ROAD
  5. INTERSECTION AT BOONES FERRY ROAD



**CONSTRUCTION / STAGING NOTES**

11 1 LANE OF TRAFFIC AND ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES  
SEE BOONES FERRY ROAD DETOUR PLANS



DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION

REVISIONS

PRELIMINARY

City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date: 1 February 2019  
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Designed By: PH/BB  
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SW 5TH ST TO SW KINSMAN RD EXTENSION  
CONSTRUCTION STAGING  
BOONES FERRY RD

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CIP # 4196  
PROJECT # 2017-02-001  
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**LEGEND**

- (LP X) INSTALL ALUMINUM DAVIT-STYLE STREET LIGHT POLE WITH 6' ARM (X=NUMBER). SEE LIGHTING TABLE FOR STATION, OFFSET, LUMINAIRE TYPE, AND MOUNTING HEIGHT. SEE SPECIAL PROVISIONS FOR FOUNDATION DETAILS.
- (OP X) INSTALL HOLOPHANE WASHINGTON POSTLITE ORNAMENTAL STREET LIGHT (X=NUMBER). SEE LIGHTING TABLE FOR STATION, OFFSET, AND LUMINAIRE TYPE. SEE SPECIAL PROVISIONS FOR FOUNDATION DETAILS.
- (PLP X) INSTALL PEDESTRIAN LEVEL NOVA 13-FOOT POLE WITH 4-FOOT ARM (X=NUMBER). SEE LIGHTING TABLE FOR STATION, OFFSET, LUMINAIRE TYPE, AND MOUNTING HEIGHT, SEE SPECIAL PROVISIONS FOR FOUNDATION DETAILS.
- (LED) INSTALL LIGHT EMITTING DIODE (LED) LUMINAIRE. SEE LIGHT POLE INSTALLATION TABLE AND SPECIFICATION FOR LIGHT DISTRIBUTION, NOMINAL COLOR TEMPERATURE AND MOUNTING HEIGHT.
- (PGE) TRANSFORMER TO BE INSTALLED BY PGE. COORDINATE CONDUIT CONNECTION WITH PGE.
- (EX PGE) MAINTAIN AND PROTECT EXISTING PGE TRANSFORMER. COORDINATE WITH PGE.
- (EX JB) MAINTAIN AND PROTECT EXISTING JUNCTION BOX.
- (RX JB) REMOVE EXISTING JUNCTION BOX.
- (JB 1A) INSTALL 17"x10"x12" PRECAST JUNCTION BOX WITH CONCRETE APRON.
- (JB 2) INSTALL 22"x12"x12" POLYMER PRECAST JUNCTION BOX.
- (JB 2A) INSTALL 22"x12"x12" POLYMER PRECAST JUNCTION BOX WITH CONCRETE APRON.
- (EX LP) MAINTAIN AND PROTECT EXISTING LUMINAIRE POLE.
- (S) INSTALL (S=SIZE) INCH ELECTRICAL CONDUIT.
- (PGE) PGE TO INSTALL 3-INCH CONDUIT. COORDINATE WITH LISA GUARNERO AT PGE (603)742-8299.
- (CJ) INSTALL AND SPLICE NEW ELECTRICAL CONDUIT TO EXISTING ELECTRICAL CONDUIT.
- (EX EC (S)) MAINTAIN AND PROTECT (S=SIZE) INCH EXISTING ELECTRICAL CONDUIT.
- (EX AC (S)) ABANDON (S=SIZE) INCH EXISTING ELECTRICAL CONDUIT.
- (EX W) MAINTAIN AND PROTECT EXISTING ELECTRICAL WIRING.
- (RX W) REMOVE EXISTING ELECTRICAL WIRING.
- (EX HPS) MAINTAIN AND PROTECT EXISTING HIGH PRESSURE SODIUM HPS LUMINAIRE.
- (RX HPS) REMOVE EXISTING HIGH PRESSURE SODIUM HPS LUMINAIRE.
- (EX LA) MAINTAIN AND PROTECT EXISTING LUMINAIRE ARM ON WOOD POLE.
- (RX LA) REMOVE EXISTING LUMINAIRE ARM ON WOOD POLE.
- (EX OP X) MAINTAIN AND PROTECT EXISTING (X=NUMBER) ORNAMENTAL STREET LIGHT POLE AND LUMINAIRE. SEE LIGHTING TABLE FOR DETAILS.
- (EX WP) MAINTAIN AND PROTECT EXISTING WOOD POLE.
- (EX SP) MAINTAIN AND PROTECT EXISTING LUMINAIRE ON SIGNAL POLE.
- (RR OP X) REMOVE AND RELOCATE EXISTING (X=NUMBER) ORNAMENTAL STREET LIGHT POLE. SEE LIGHTING TABLE FOR DETAILS.
- (RI OP X) REINSTALL EXISTING (X=NUMBER) ORNAMENTAL STREET LIGHT POLE ON NEW FOUNDATION. SEE LIGHTING TABLE FOR DETAILS.
- (RR LP X) REMOVE AND RELOCATE EXISTING (X=NUMBER) LIGHT POLE. SEE LIGHTING TABLE FOR DETAILS.
- (RI LP X) REINSTALL EXISTING (X=NUMBER) LIGHT POLE ON NEW FOUNDATION. SEE LIGHTING TABLE FOR DETAILS.
- (HDD) INSTALL CONDUIT BY HORIZONTAL DIRECTIONAL DRILLING, OPEN TRENCH NOT ALLOWED.
- C-(A) N/G INSTALL (N) NO. (G) TYPE THWN WIRES FOR CIRCUIT (A).
- (PL) INSTALL POLY PULL LINE (500 LB. MIN. TENSILE STRENGTH).

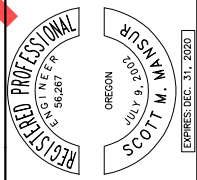
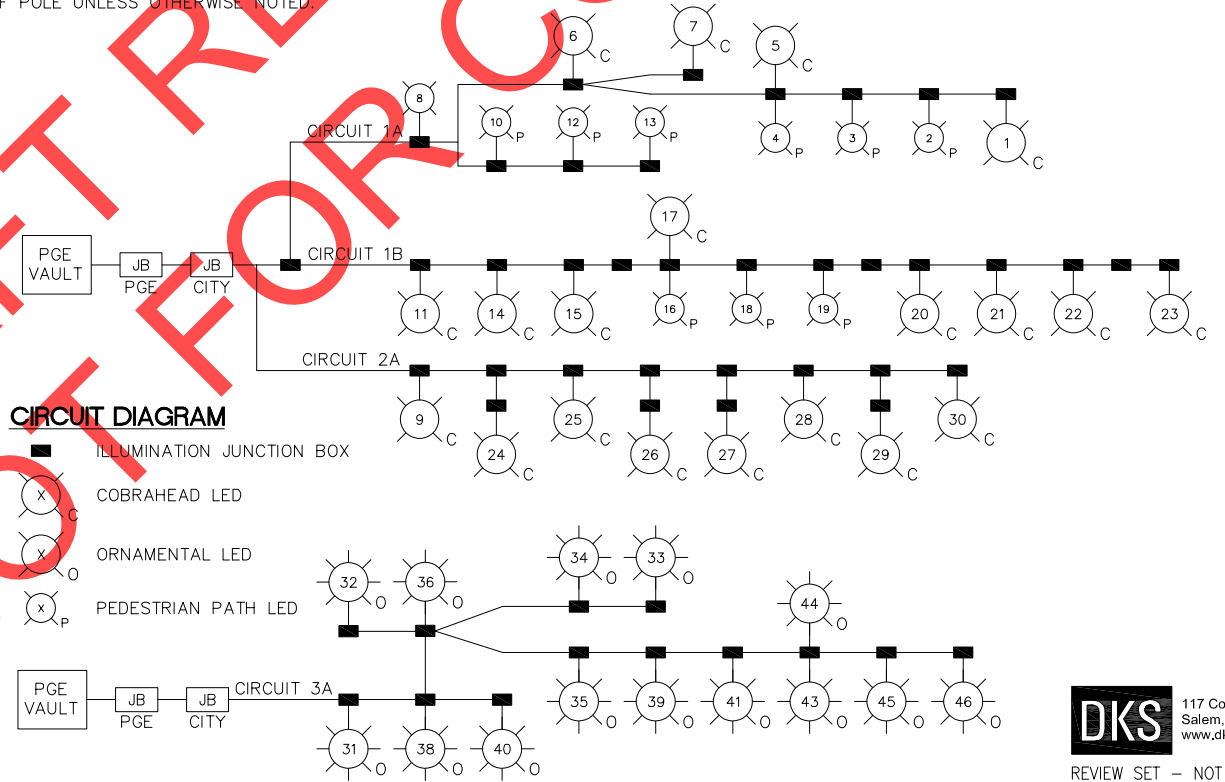
LIGHTING TABLE											
POLE NO.	STATION	STREET NAME	OFFSET (FT)*	MINIMUM INITIAL LUMENS (THOUSANDS)	LUMINAIRE TYPE	LIGHT DISTRIBUTION	NOMINAL COLOR TEMPERATURE (KELVIN)	MOUNTING HEIGHT (FT)	CIRCUIT NO.	FOUNDATION	COMMENTS
1	**	SW ARROWHEAD CREEK LN	**	11.25	COBRA LED	M-C-II	3000	30	1A	5CL-LB-PGE	
2	**	TONQUIN TRAIL	**	11.25	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
3	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
4	24+36	SW 5TH ST (TONQUIN TRAIL)	16.5' RT	5.00	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
5	23+99	SW 5TH ST	2.5' RT	11.25	COBRA LED	M-C-II	3000	30	1A	5CL-LB-PGE	
6	25+11	SW 5TH ST	25.5' RT	11.25	COBRA LED	M-C-II	3000	30	1A	5CL-LB-PGE	
7	101+12	SW KINSMAN RD	8.0' LT	11.25	COBRA LED	M-C-II	3000	30	1A	5CL-LB-PGE	
8	25+95	SW 5TH ST	25.0' RT	11.25	COBRA LED	M-C-II	3000	30	1A	5CL-LB-PGE	
9	25+83	SW 5TH ST	8.5' LT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
10	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
11	27+22	SW 5TH ST	3.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
12	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
13	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1A	20R-LB-4-PGE	
14	29+00	SW 5TH ST	3.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
15	30+87	SW 5TH ST	3.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	20R-LB-4-PGE	
16	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1B	5CL-LB-PGE	
17	32+25	SW 5TH ST	2.5' RT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
18	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1B	20R-LB-4-PGE	
19	**	TONQUIN TRAIL	**	5.00	PEDESTRIAN LED	M-III	3000	13	1B	20R-LB-4-PGE	
20	33+91	SW 5TH ST	3.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
21	35+44	SW 5TH ST	3.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
22	37+20	SW 5TH ST	5.0' LT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
23	38+58	SW 5TH ST	9.0' RT	11.25	COBRA LED	M-C-II	3000	30	1B	5CL-LB-PGE	
24	102+41	SW KINSMAN RD	6.0' LT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
25	104+13	SW KINSMAN RD	6.5' RT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
26	105+59	SW KINSMAN RD	6.5' LT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
27	106+96	SW KINSMAN RD	4.5' LT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
28	108+90	SW KINSMAN RD	4.5' RT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
29	109+70	SW KINSMAN RD	7.5' RT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	
30	111+02	SW KINSMAN RD	3.0' RT	11.25	COBRA LED	M-C-II	3000	30	2A	5CL-LB-PGE	REINSTALL EXISTING LIGHT POLE ON NEW FOUNDATION
31	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
32	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
33	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
34	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
35	28+90	SW BOONES FERRY RD	3.0' RT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	
36	28+90	SW BOONES FERRY RD	5.0' LT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	REINSTALL EXISTING ORNAMENTAL POLE ON NEW FOUNDATION
37	EX	SW BOONES FERRY RD	EX	-	-	-	-	-	-	EX	REMOVE AND RELOCATE ORNAMENTAL POLE
38	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
39	29+59	SW BOONES FERRY RD	4.5' RT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	
40	EX	SW BOONES FERRY RD	EX	6.90	ACORN LED	III	3000	14	3A	EX	REPLACE EXISTING HPS WITH LED
41	30+86	SW BOONES FERRY RD	2.5' RT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	
42	31+57	SW BOONES FERRY RD	EX	-	-	-	-	-	-	EX	REMOVE AND RELOCATE ORNAMENTAL POLE
43	31+91	SW BOONES FERRY RD	4.0' RT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	
44	32+16	SW BOONES FERRY RD	6.0' LT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	REINSTALL EXISTING ORNAMENTAL POLE ON NEW FOUNDATION
45	33+03	SW BOONES FERRY RD	3.5' RT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	
46	33+69	SW BOONES FERRY RD	6.0' LT	6.90	ACORN LED	III	3000	14	3A	20R-LB-4-PGE	

\*OFFSET IS MEASURED FROM FACE OF CURB TO CENTER OF POLE UNLESS OTHERWISE NOTED.  
 \*\* FINAL LOCATION TO BE DETERMINED BY ENGINEER.

**GENERAL NOTES**

1. CONTRACTOR TO COORDINATE WITH LISA GUARNERO AT PGE (503)742-8299 FOR DISCONNECT OF STREET LIGHT CIRCUIT PRIOR TO BEGINNING WORK. PGE WILL ALSO DISCONNECT EACH STREET LIGHT WIRE CONNECTION AT THE NEAREST JUNCTION BOX.
2. ALL JUNCTION BOXES SHALL BE PLACED IN SIDEWALK OR CONCRETE APRON.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE OREGON STANDARD DRAWINGS, OREGON SPECIFICATIONS FOR CONSTRUCTION AND THE SPECIAL PROVISIONS FOR THIS CONTRACT.
4. INSTALL #16 STRANDED COPPER (ORANGE) TRACER WIRE IN ALL CONDUITS.
5. CONTRACTOR TO INSTALL GROUND WIRE IN NONMETALLIC CONDUITS. GROUND WIRE SHALL BE CONTINUOUS BETWEEN ALL POLES, JUNCTION BOXES AND CABINETS.
6. STREET LIGHTS WILL BE PGE OPTION C SCHEDULE 95 AND THE CITY OF WILSONVILLE WILL OWN AND MAINTAIN THE STREET LIGHTS.

**CIRCUIT DIAGRAM**



City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97170  
 Phone 503-682-4960

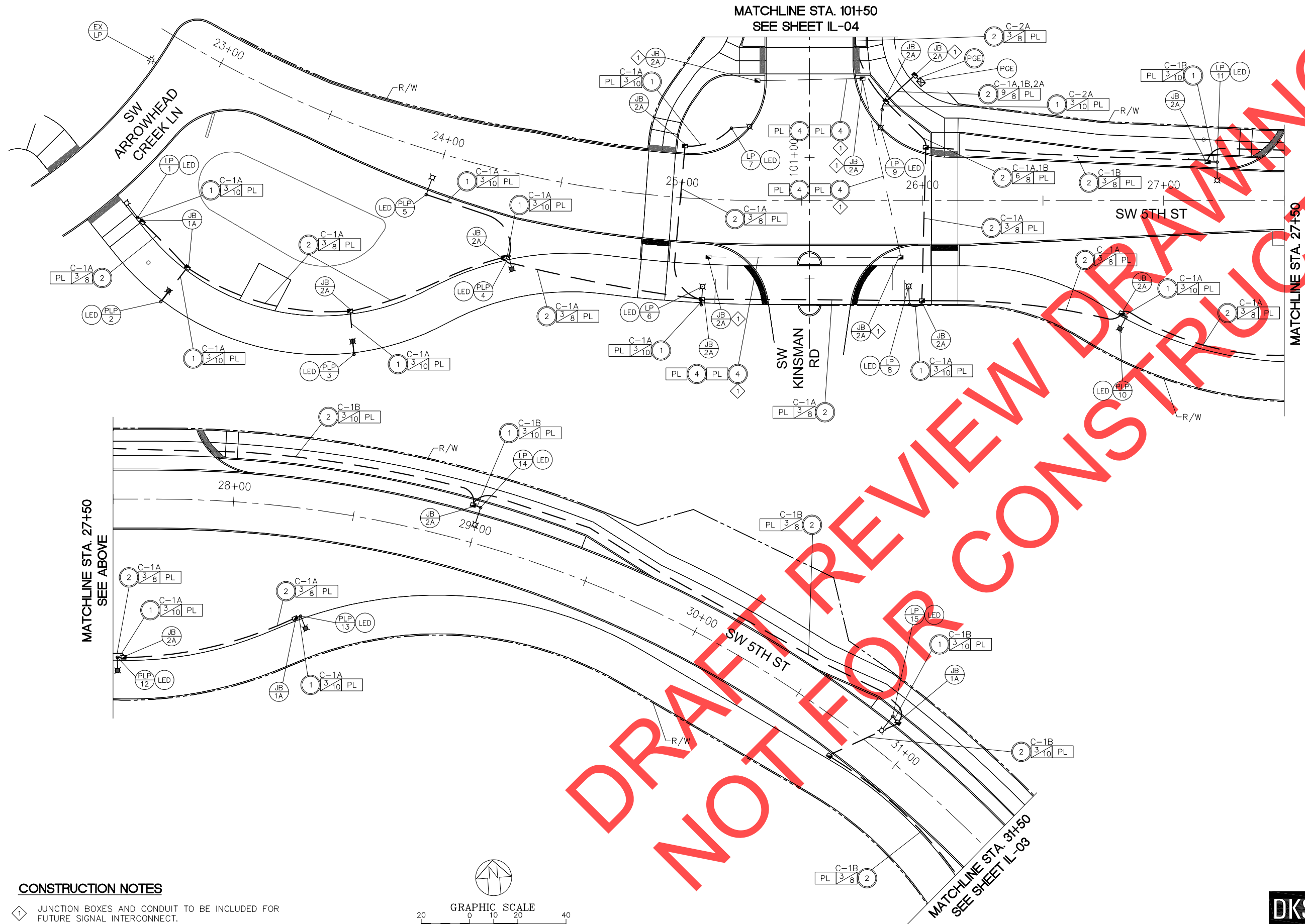


Date: February 2019  
 Scale: AS SHOWN  
 Designed By: RFV  
 Drawn By: DKS CAD  
 Checked By: SMM

**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**ROADWAY LIGHTING LEGEND AND DETAILS**

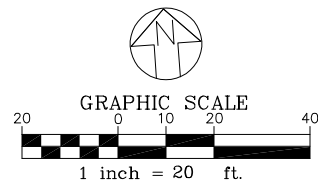
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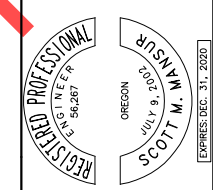
**CONSTRUCTION NOTES**

- ① JUNCTION BOXES AND CONDUIT TO BE INCLUDED FOR FUTURE SIGNAL INTERCONNECT.
- ② JUNCTION BOX FOR PGE DISCONNECT. INSTALL PER PGE STANDARDS.



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NO.	DATE	REVISIONS



City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



Date: February 2019  
Scale: AS SHOWN  
Designed By: RFV  
Drawn By: DKS CAD  
Checked By: SMM

**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**ILLUMINATION PLAN**

**DKS** 117 Commercial St NE, Suite 310  
Salem, Oregon 97301  
www.dksassociates.com

CIP# 4196  
PROJECT# 2017-02-001  
IL-02  
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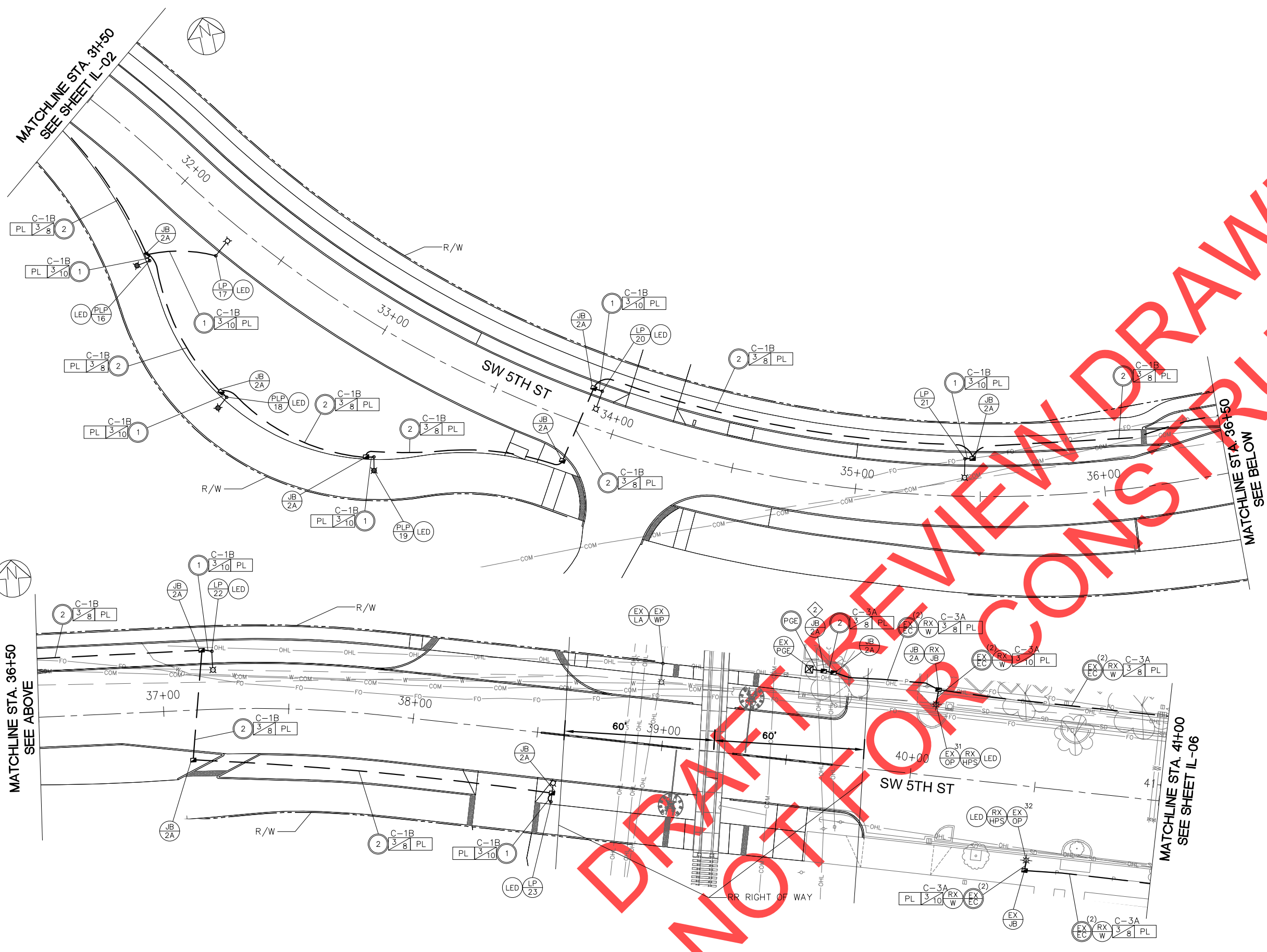
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MATCHLINE STA. 31+50  
SEE SHEET IL-02

MATCHLINE STA. 36+50  
SEE ABOVE

MATCHLINE STA. 36+50  
SEE BELOW

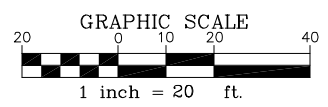
MATCHLINE STA. 41+00  
SEE SHEET IL-06



**NOT FOR CONSTRUCTION**

**CONSTRUCTION NOTES**

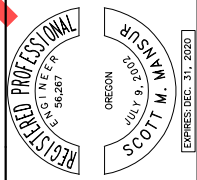
2 JUNCTION BOX FOR PGE DISCONNECT. INSTALL PER PGE STANDARDS.



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Salem, Oregon 97301  
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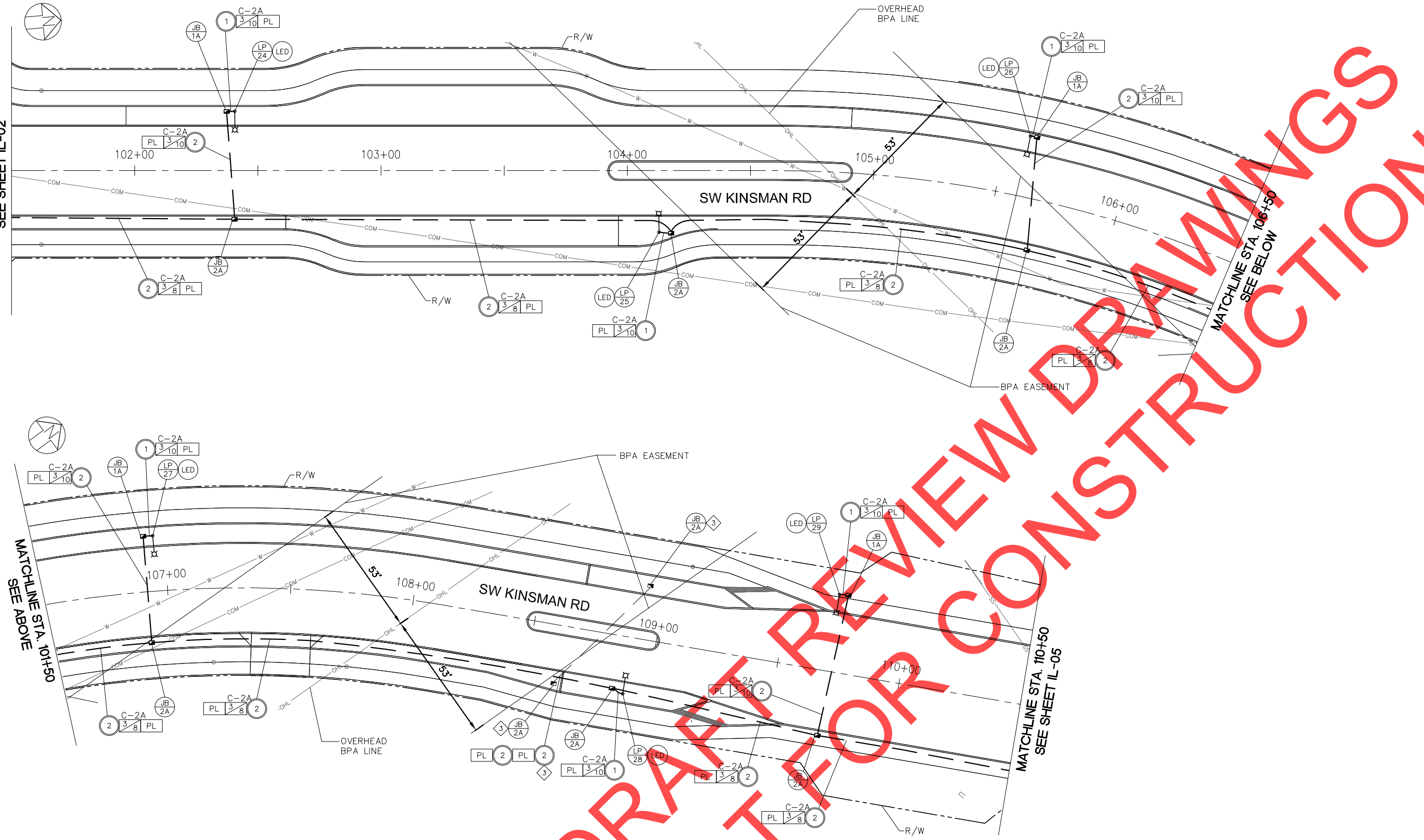
<p>City of Wilsonville Engineering Department 29799 SW Town Center Loop E Wilsonville, OR 97170 Phone 503-682-4960</p>	
<p>Date: February 2019 Scale: AS SHOWN Designed By: RFV Drawn By: DKS CAD Checked By: SMM</p>	
<p>5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT ILLUMINATION PLAN</p>	
CIP#	4196
PROJECT #	2017-02-001
IL-03	196 of 211



REVISIONS

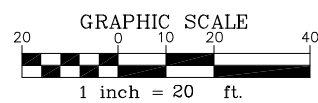
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MATCHLINE STA. 101+50  
SEE SHEET IL-02

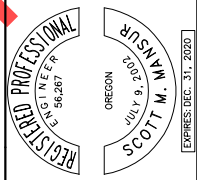


**CONSTRUCTION NOTES**

- 3 JUNCTION BOXES AND CONDUIT TO BE INCLUDED FOR FUTURE PEDESTRIAN CROSSING FLASHER.



NO.	DATE	REVISIONS



City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97170  
 Phone 503-682-4960



Date: February 2019  
 Scale: AS SHOWN  
 Designed By: RFV  
 Drawn By: DKS CAD  
 Checked By: SMM

**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**ILLUMINATION PLAN**

**DKS** 117 Commercial St NE, Suite 310  
 Salem, Oregon 97301  
 www.dksassociates.com

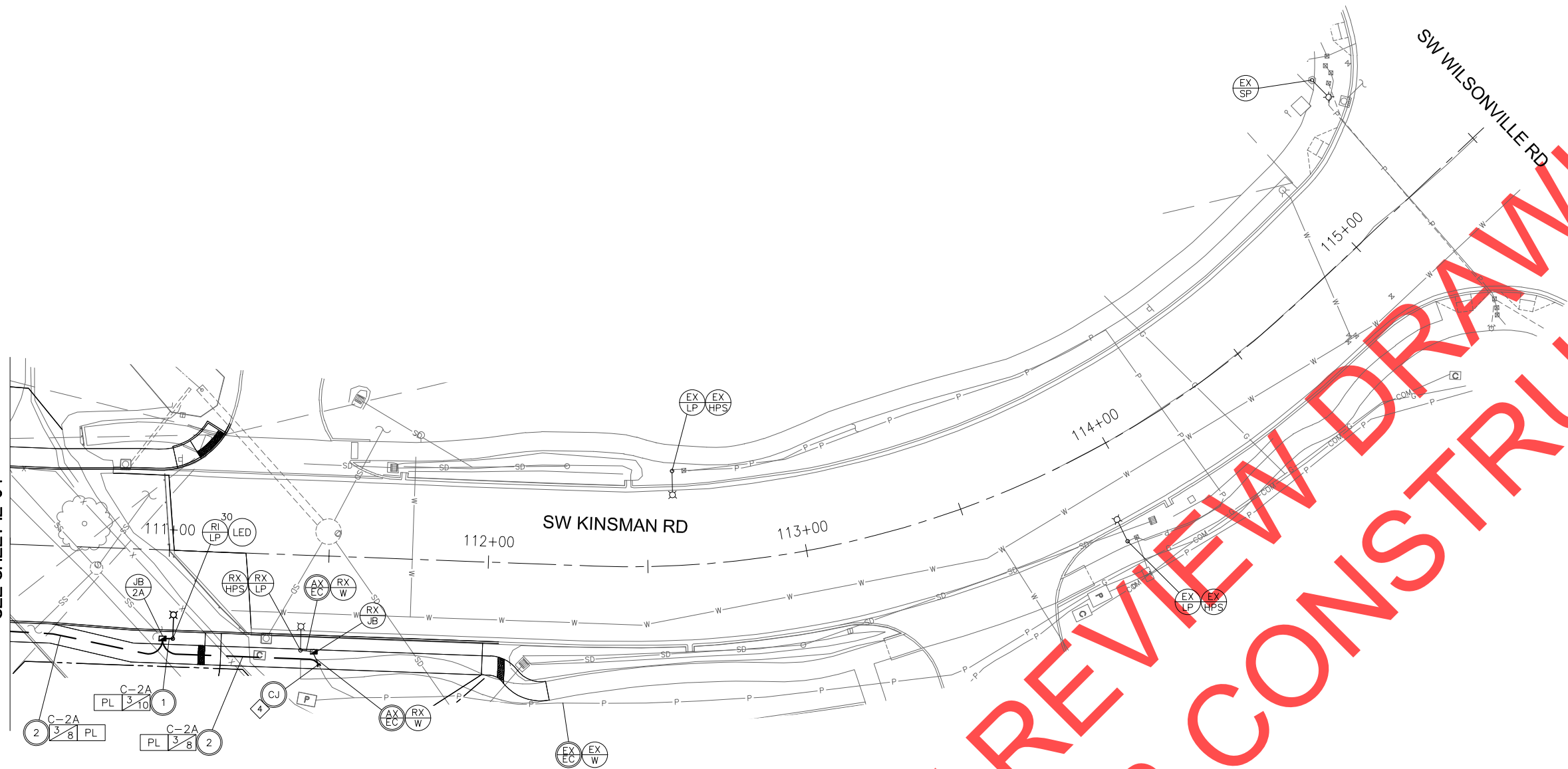
CIP# 4196  
 PROJECT# 2017-02-001  
 IL-04  
 197 of 211

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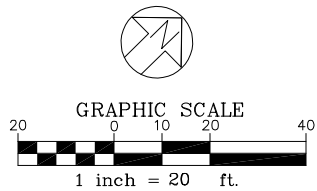
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NOT FOR CONSTRUCTION

MATCHLINE STA. 110+50  
SEE SHEET IL-04



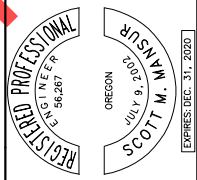
**CONSTRUCTION NOTES**

- 4 SPLICE NEW 2-INCH CONDUIT AND ELECTRICAL WIRES WITH EXISTING CONDUIT AND ELECTRICAL WIRES. VERIFY LOCATION AND CONDUIT WITH ENGINEER PRIOR TO START OF CONSTRUCTION.



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REVISIONS



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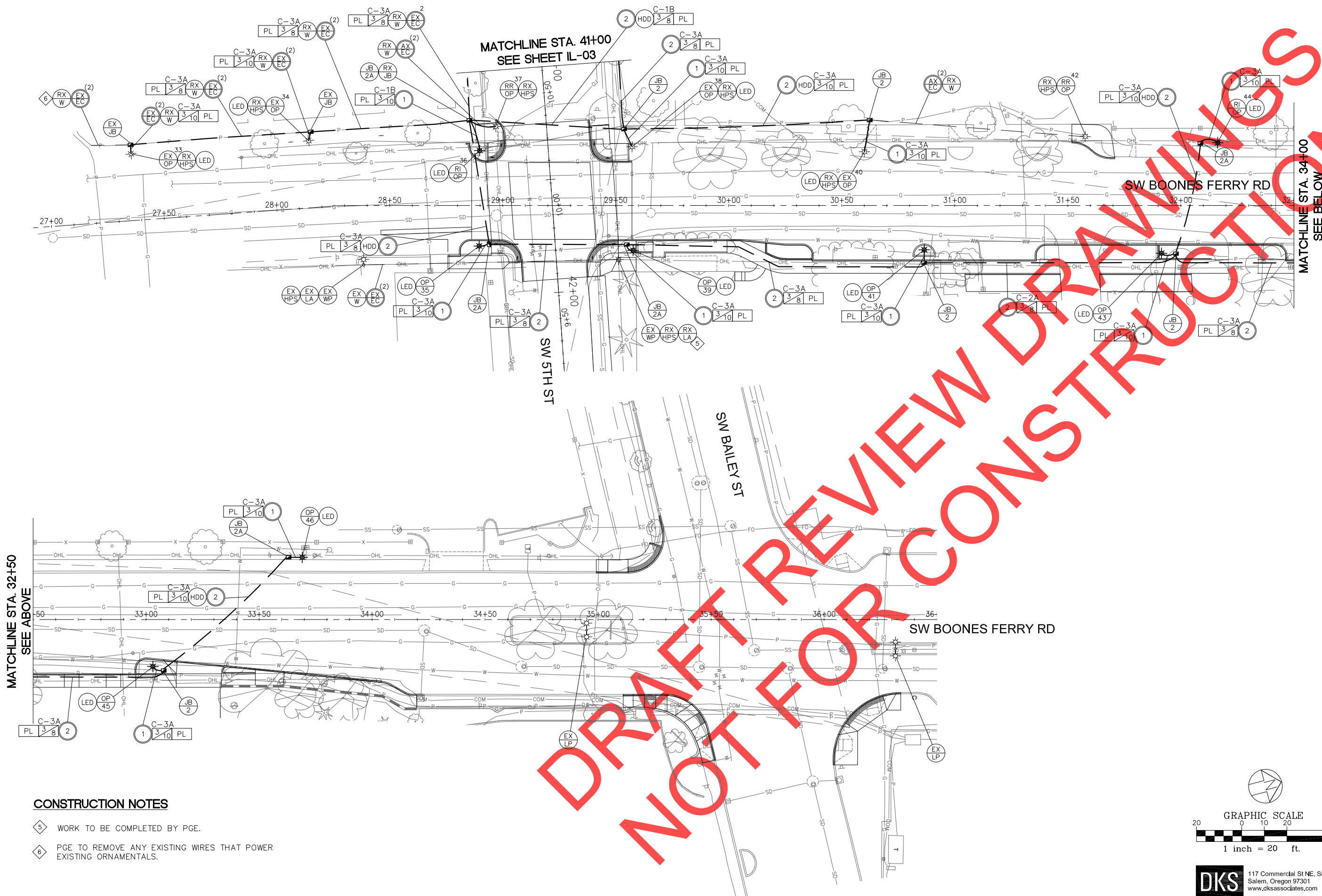
5th STREET/KINSMAN ROAD IMPROVEMENT  
PROJECT  
ILLUMINATION PLAN

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CIP# 4196  
PROJECT # 2017-02-001  
IL-05  
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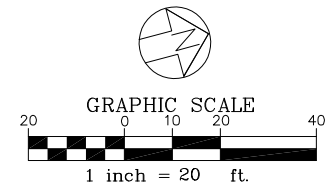


MATCHLINE STA. 32+50  
SEE ABOVE

MATCHLINE STA. 41+00  
SEE SHEET IL-03

MATCHLINE STA. 34+00  
SEE BELOW

- CONSTRUCTION NOTES**
- 5 WORK TO BE COMPLETED BY PGE.
  - 6 PGE TO REMOVE ANY EXISTING WIRES THAT POWER EXISTING ORNAMENTALS.

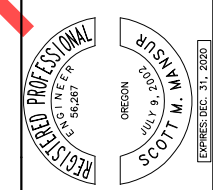


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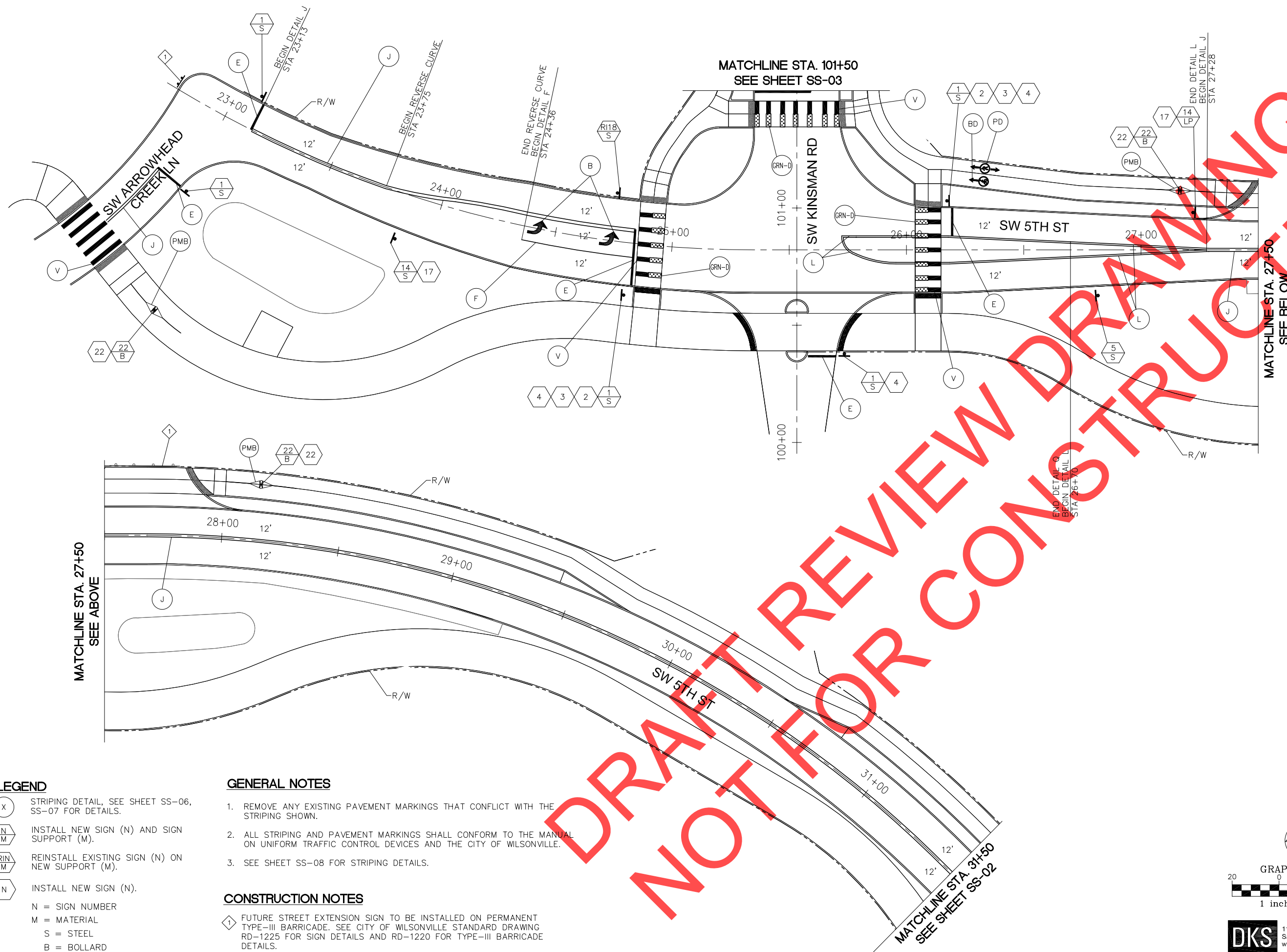


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**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**ILLUMINATION PLAN**

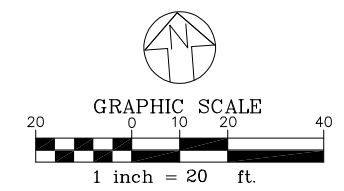
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PROJECT# 2017-02-001  
IL-06  
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- LEGEND**
- (X) STRIPING DETAIL, SEE SHEET SS-06, SS-07 FOR DETAILS.
  - (N/M) INSTALL NEW SIGN (N) AND SIGN SUPPORT (M).
  - (RIN/M) REINSTALL EXISTING SIGN (N) ON NEW SUPPORT (M).
  - (N) INSTALL NEW SIGN (N).
- N = SIGN NUMBER  
M = MATERIAL  
S = STEEL  
B = BOLLARD  
LP = LIGHT POLE MOUNT

- GENERAL NOTES**
1. REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STRIPING SHOWN.
  2. ALL STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF WILSONVILLE.
  3. SEE SHEET SS-08 FOR STRIPING DETAILS.
- CONSTRUCTION NOTES**
- ◇ FUTURE STREET EXTENSION SIGN TO BE INSTALLED ON PERMANENT TYPE-III BARRICADE. SEE CITY OF WILSONVILLE STANDARD DRAWING RD-1225 FOR SIGN DETAILS AND RD-1220 FOR TYPE-III BARRICADE DETAILS.

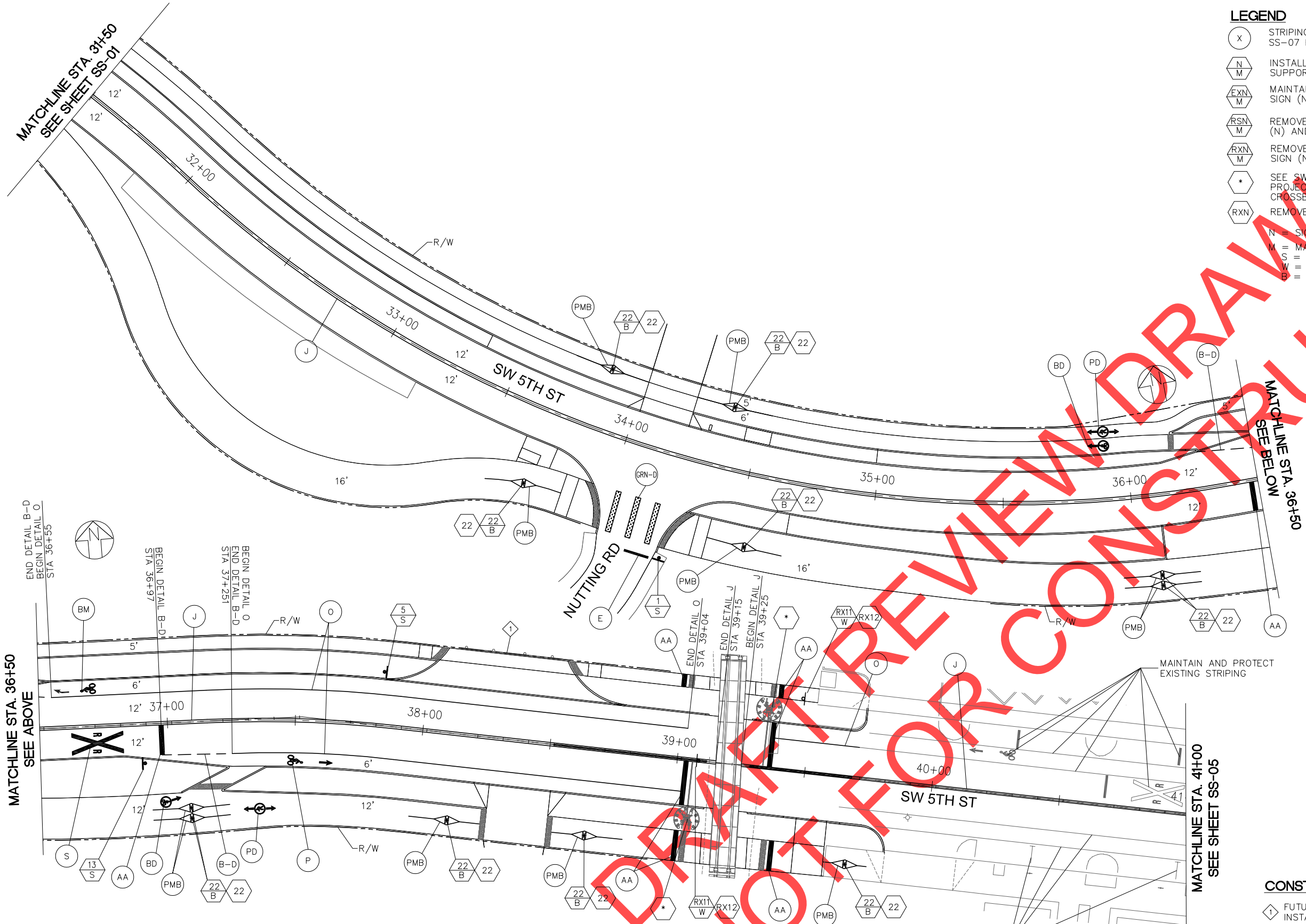


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<b>REVISIONS</b>	
<b>City of Wilsonville</b> Engineering Department 29799 SW Town Center Loop E Wilsonville, OR 97170 Phone 503-682-4960	
Date	February 2019
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Drawn By	DKS CAD
Checked By	SMM
<b>5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT</b> <b>SIGNING/STRIPING PLAN</b>	
CIP #	4196
PROJECT #	2017-02-001
	SS-01
	200 of 211

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**LEGEND**

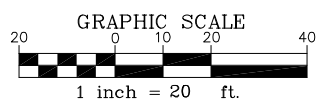
- (X) STRIPING DETAIL, SEE SHEET SS-06, SS-07 FOR DETAILS.
  - (N/M) INSTALL NEW SIGN (N) AND SIGN SUPPORT (M).
  - (EXN/M) MAINTAIN AND PROTECT EXISTING SIGN (N) AND SIGN SUPPORT (M).
  - (RSN/M) REMOVE AND SAVE EXISTING SIGN (N) AND SIGN SUPPORT (M).
  - (RXN/M) REMOVE AND SALVAGE EXISTING SIGN (N) AND SIGN SUPPORT (M).
  - (\*) SEE SW 5TH STREET CROSSING PROJECT SHEETS R01 TO R12 FOR CROSSBUCK SIGN INSTALLATION.
  - (RXN) REMOVE EXISTING SIGN (N).
- N = SIGN NUMBER  
M = MATERIAL  
S = STEEL  
W = WOOD  
B = BOLLARD

**GENERAL NOTES**

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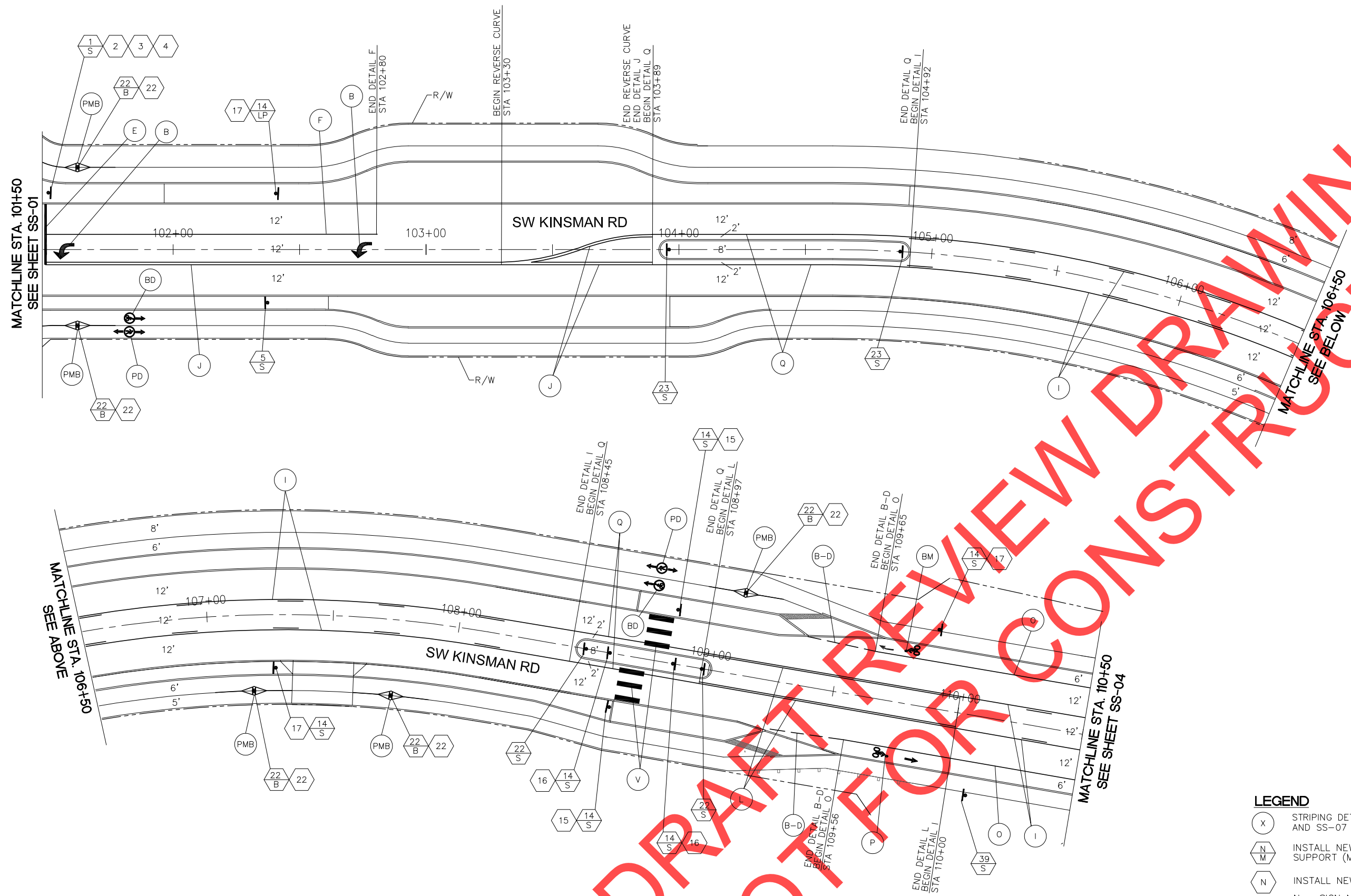
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<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>											<div style="text-align: center;"> </div> <p>City of Wilsonville  Engineering Department  29799 SW Town Center Loop E  Wilsonville, OR 97170  Phone 503-682-4960</p> <div style="text-align: center;"> </div> <p>Date: February 2019  Scale: AS SHOWN  Designed By: RFV  Drawn By: DKS CAD  Checked By: SMM</p> <p style="text-align: center;"><b>5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT</b></p> <p style="text-align: center;"><b>SIGNING/STRIPING PLAN</b></p>
<p><b>DKS</b> 117 Commercial St NE, Suite 310  Salem, Oregon 97301  www.dksassociates.com</p> <p>REVIEW SET - NOT FOR CONSTRUCTION</p>											
<p>CIP# 4196  PROJECT# 2017-02-001  SS-02  201 of 211</p>											

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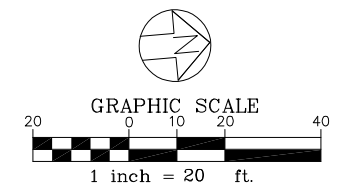


**GENERAL NOTES**

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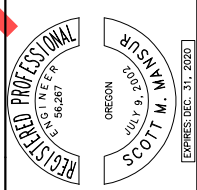
**LEGEND**

- (X) STRIPING DETAIL, SEE SHEET SS-06 AND SS-07 FOR DETAILS.
- (N M) INSTALL NEW SIGN (N) AND SIGN SUPPORT (M).
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NO.	DATE	REVISIONS



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Engineering Department  
29799 SW Town Center Loop E  
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Phone 503-682-4960



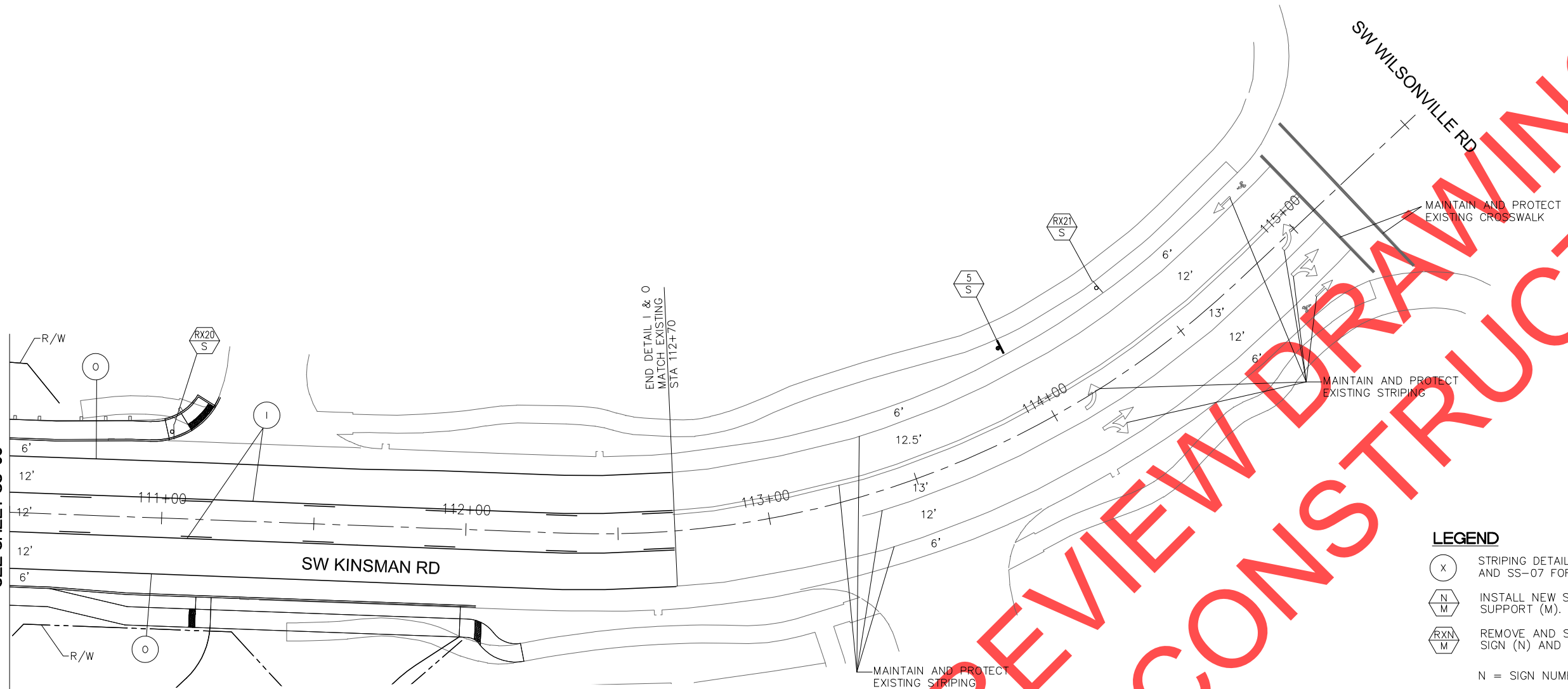
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**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**SIGNING/STRIPING PLAN**




CIP# 4196  
PROJECT# 2017-02-001  
SS-03  
202 of 211

DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION

MATCHLINE STA. 110+50  
SEE SHEET SS-03

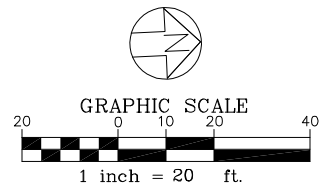


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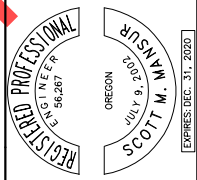
-  STRIPING DETAIL, SEE SHEET SS-06 AND SS-07 FOR DETAILS.
  -  INSTALL NEW SIGN (N) ON NEW SUPPORT (M).
  -  REMOVE AND SALVAGE EXISTING SIGN (N) AND SIGN SUPPORT (M).
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**GENERAL NOTES**

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Engineering Department  
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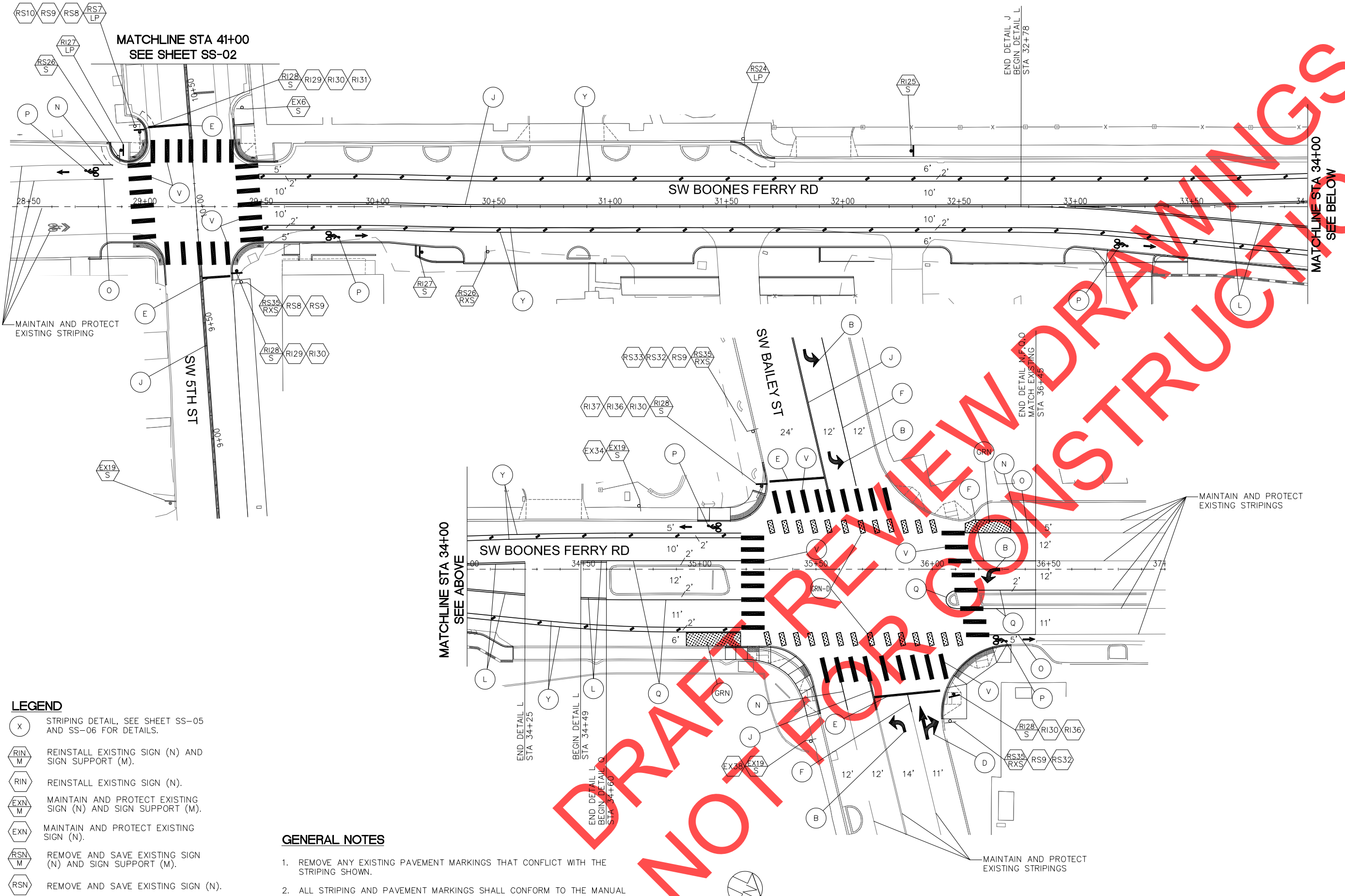
5th STREET/KINSMAN ROAD IMPROVEMENT  
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PROJECT # 2017-02-001  
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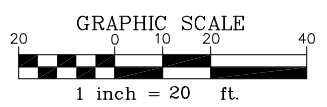
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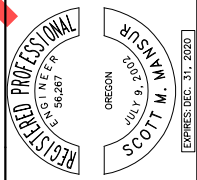
- LEGEND**
- (X) STRIPING DETAIL, SEE SHEET SS-05 AND SS-06 FOR DETAILS.
  - (RIN M) REINSTALL EXISTING SIGN (N) AND SIGN SUPPORT (M).
  - (RIN) REINSTALL EXISTING SIGN (N).
  - (EXN M) MAINTAIN AND PROTECT EXISTING SIGN (N) AND SIGN SUPPORT (M).
  - (EXN) MAINTAIN AND PROTECT EXISTING SIGN (N).
  - (RSN M) REMOVE AND SAVE EXISTING SIGN (N) AND SIGN SUPPORT (M).
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  3. SEE SHEET SS-08 FOR STRIPING DETAILS.



**REVISIONS**

NO.	DESCRIPTION



City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97170  
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**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**SIGNING/STRIPING PLAN**

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**AA**

24" STOP BAR:  
SHALL BE THERMOPLASTIC PAVEMENT MARKING MATERIAL.

**B**

TURN LANE MARKINGS:  
SEE MUTCD AND ODOT STANDARD DRAWING TM531 FOR DETAILS. ARROWS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL.

**BD**

BICYCLE DIRECTIONAL ARROWS  
USE REFERENCED THERMOPLASTIC PAVEMENT MARKING MATERIAL

**B-D**

BICYCLE LANE DASH:  
8" WHITE DOTTED LINE. USE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL

**BM**

BICYCLE LANE MERGE MARKING:  
USE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL.

**D**

THRU AND TURN LANE MARKINGS  
SEE MUTCD FOR DETAILS. TURN AND THRU ARROWS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL

**E**

STOP BAR:  
SHALL BE THERMOPLASTIC PAVEMENT MARKING MATERIAL. NOT REQUIRED AT INTERSECTIONS IF MARKED CROSSWALKS ARE INSTALLED.

**F**

TURN LANE:  
8" WHITE LINE WITH MONO-DIRECTIONAL CRYSTAL TYPE I MARKERS (WHITE) AT 15' O.C.

**GRN**

GREEN BICYCLE LANE MARKING (ALTA-GRIP SERIES 50)

**GRN-D**

DASHED GREEN BICYCLE LANE MARKING (ALTA-GRIP SERIES 50)

**I**

TWO WAY LEFT TURN STRIPE:  
4" YELLOW LINES WITH TYPE I BI-DIRECTIONAL YELLOW RAISED PAVEMENT MARKERS AT 40' O.C. OUTSIDE LINE IS SOLID INSIDE AT 10'/30' PATTERN.

**J**

CENTERLINES:  
TWO 4" YELLOW LINES WITH BI-DIRECTIONAL YELLOW TYPE I MARKERS AT 40' O.C.

**L**

MEDIAN STRIPE:  
TWO 4" YELLOW LINES WITH TYPE I BI-DIRECTIONAL YELLOW RAISED PAVEMENT MARKERS AT 40' O.C.

**N**

FOG LINE:  
4" WHITE LINE AS SHOWN ON PLANS

**O**

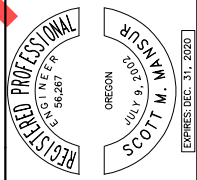
TRAVEL LANE - 8" WHITE STRIPE  
PARKING LANE - 4" WHITE STRIPE  
BIKE LANE LINE - 4" TO 8" WIDE WHITE LINE

**P**

BICYCLE LANE MARKING:  
SEE ODOT BIKE LANE STANDARDS. USE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL.

- GENERAL NOTES FOR ALL PAVEMENT MARKINGS:
1. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
  2. ALL STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF WILSONVILLE AND ODOT TRAFFIC ENGINEERING DESIGN SPECIFICATIONS.
  3. LOCATE STOP BARS 10' BACK OF THE EXTENDED EDGE LINE, EDGE OF PAVEMENT, OR CURB FACE. VERIFY SIGHT DISTANCE.
  4. LOCATE CROSSWALKS AS PER SIDEWALK RAMP LOCATIONS OR 5' BACK OF EXTENDED EDGE LINE, EDGE OF PAVEMENT OR CURB FACE.
  5. STRIPING SHALL BE REMOVED BY HYDROBLASTING ONLY AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. REMOVAL BY GRINDING IS NOT PERMITTED.
  6. ALL THERMOPLASTIC PAVEMENT MARKING MATERIALS SHALL BE INSTALLED AS PER SECTION 00850 OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
  7. ALL PAVEMENT MARKING SHALL CONFORM TO THE MOST CURRENT ODOT SPECIFICATIONS FOR BEAD BINDER PAINT. COPIES OF THE MATERIALS SPECIFICATIONS ARE AVAILABLE FROM: ENGINEER OF MATERIALS AND RESEARCH HWY. MATERIALS LABORATORY 600 AIRPORT ROAD S.E. SALEM OR. 97310
  8. LANE WIDTHS SHALL BE MEASURED FROM CENTERLINE OF STRIPE TO CENTERLINE OF STRIPE OR CURB FACE.

DRAFT REVIEW FOR CONSTRUCTION



City of Wilsonville  
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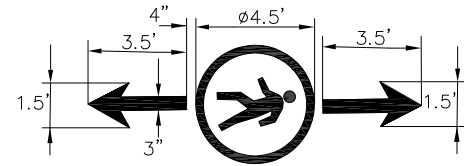


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5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT STRIPING DETAILS

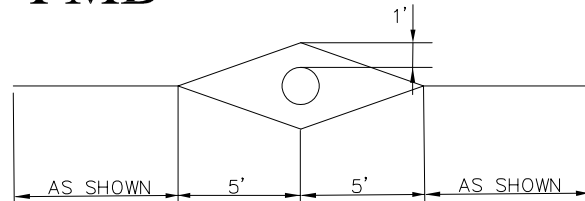


PD



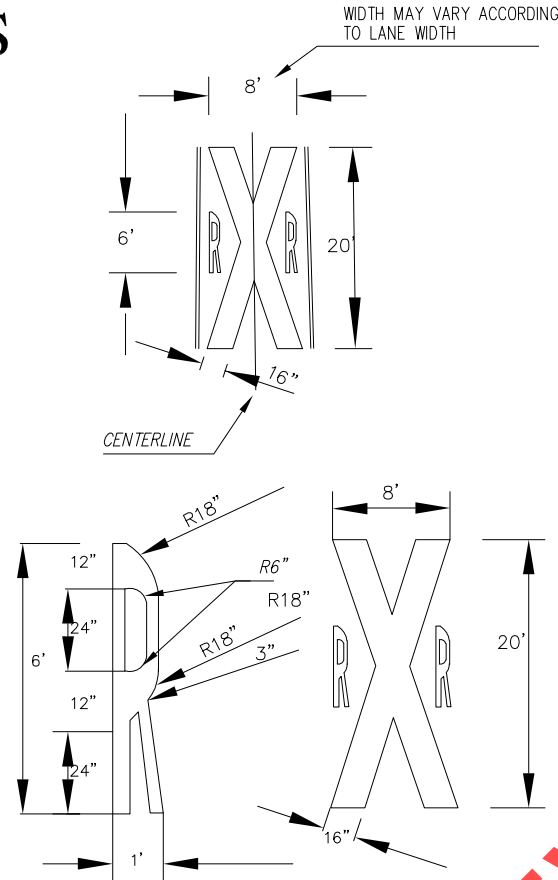
PEDESTRIAN DIRECTIONAL ARROWS  
USE REFERENCED THERMOPLASTIC  
PAVEMENT MARKING MATERIAL

PMB



PAVEMENT MARKING BOLLARD:  
4" SOLID YELLOW LINES. USE REFERENCED  
THERMOPLASTIC PAVEMENT MARKING MATERIAL

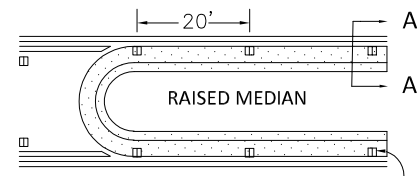
S



PAVEMENT MARKINGS FOR R/R CROSSING

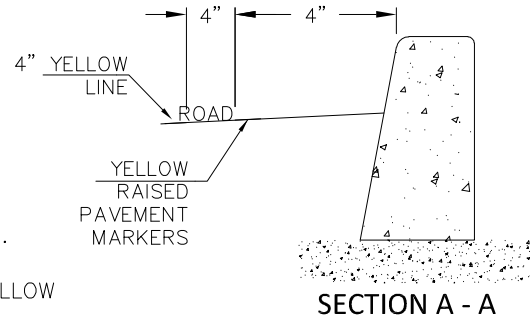
This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

Q

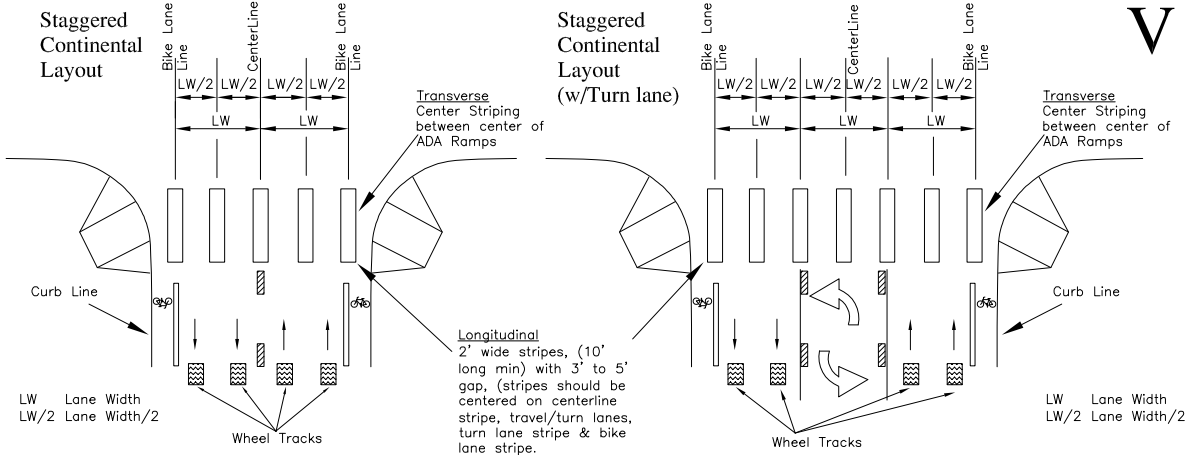


BI-DIRECTIONAL TYPE  
YELLOW MARKERS - 40' O.C.

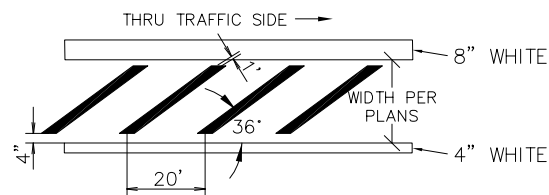
RAISED MEDIAN STRIPE:  
4" YELLOW LINE WITH TYPE I BI-DIRECTIONAL YELLOW  
RAISED PAVEMENT MARKERS AT 40' O.C.



SECTION A - A



Y

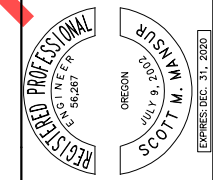


BUFFERED BIKE LANE

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3. LOCATE STOP BARS 10' BACK OF THE EXTENDED EDGE LINE, EDGE OF PAVEMENT, OR CURB FACE. VERIFY SIGHT DISTANCE.
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5. STRIPING SHALL BE REMOVED BY HYDROBLASTING ONLY AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. REMOVAL BY GRINDING IS NOT PERMITTED.
6. ALL THERMOPLASTIC PAVEMENT MARKING MATERIALS SHALL BE INSTALLED AS PER SECTION 00850 OF THE ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
7. ALL PAVEMENT MARKING SHALL CONFORM TO THE MOST CURRENT ODOT SPECIFICATIONS FOR BEAD BINDER PAINT. COPIES OF THE MATERIALS SPECIFICATIONS ARE AVAILABLE FROM:  
ENGINEER OF MATERIALS AND RESEARCH HWY. MATERIALS LABORATORY 600 AIRPORT ROAD S.E. SALEM OR. 97310
8. LANE WIDTHS SHALL BE MEASURED FROM CENTERLINE OF STRIPE TO CENTERLINE OF STRIPE OR CURB FACE.

REVISIONS



City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97170  
Phone 503-682-4960



Date: February 2019  
Scale: AS SHOWN  
Designed By: RFV  
Drawn By: DKS CAD  
Checked By: SMM

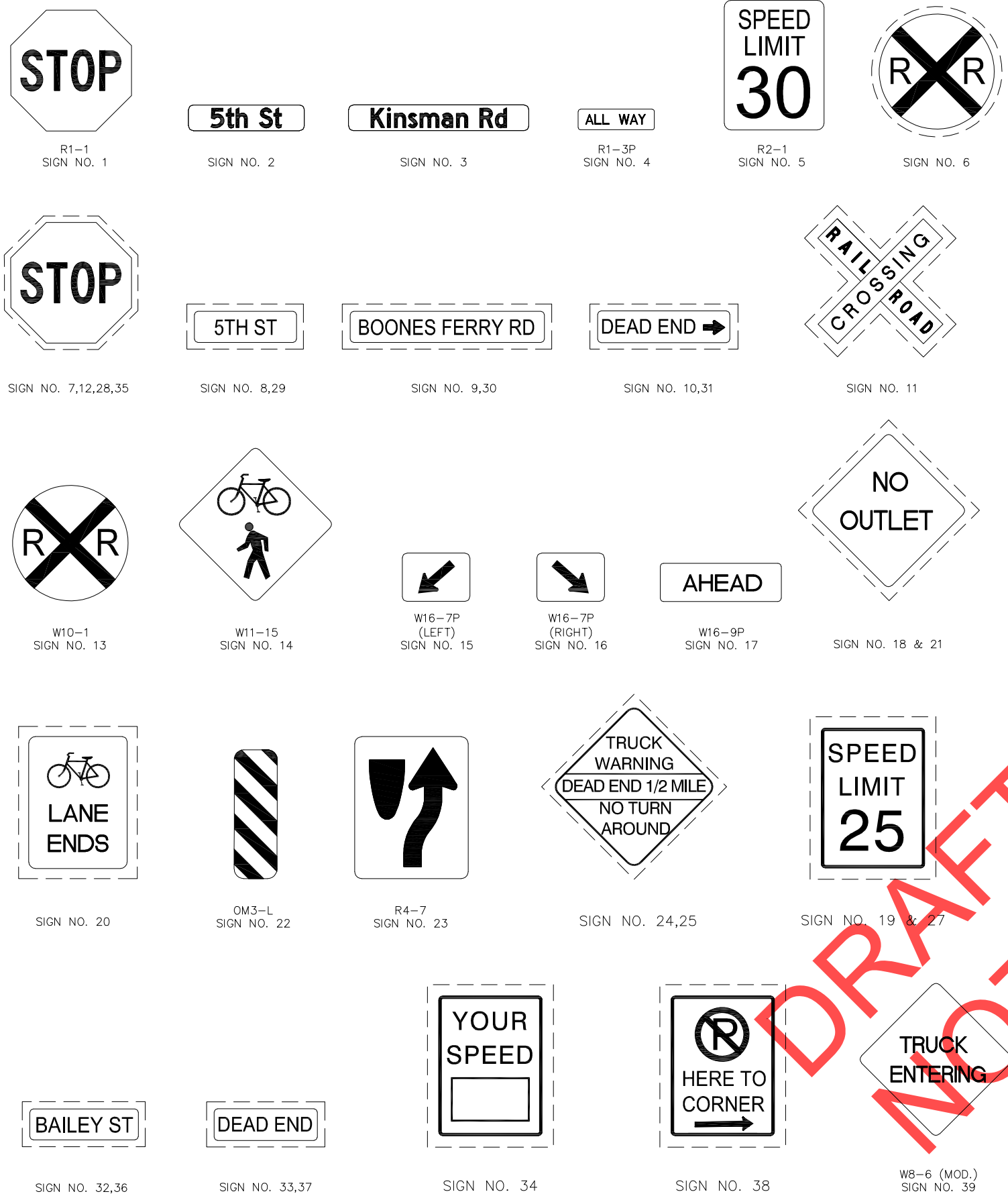
5th STREET/KINSMAN ROAD IMPROVEMENT  
PROJECT  
STRIPING DETAILS

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DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION

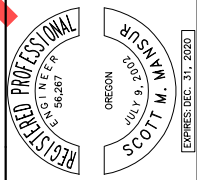
# SIGN AND POST DATA TABLE

NO.	TYPE	QTY	SIGN DESIGNATION	LEGEND	SIZE	COMMENTS
1	R1	5	R1-1	Stop Sign	36"x36"	Install new sign and steel sign support.
2	G2	3	D3-1 (Mod.)	Street Name Sign (5th St)	8"x36"	Install new sign.
3	G2	3	D3-1 (Mod.)	Street Name Sign (Kinsman Rd)	8"x36"	Install new sign.
4	R1	4	R1-3P	All Way (plaque)	18"x6"	Install new sign.
5	W1	4	R2-1	Speed Limit 30	24"x30"	Install new sign and steel sign support.
6		1		Grade Crossing Advance Warning		Maintain and protect existing existing sign and steel sign support.
7		1		Stop Sign		Remove and save existing sign on light pole.
8		2		Street Name Sign (5th St)		Remove and save existing sign.
9		4		Street Name Sign (Boones Ferry Rd)		Remove and save existing sign.
10		1		Dead End (Rt Arrow)		Remove and save existing sign.
11		2		Grade Crossing (Crossbuck)		Remove existing sign and wood sign support.
12		2		Stop Sign		Remove existing sign.
13	Y1	1	W10-1	Railroad Grade Crossing Advance Warning	36" Dia	Install new sign and steel sign support.
14	Y1	9	W11-15	Combination Bike and Ped Crossing	36"x36"	Install new sign and steel sign support.
15	Y1	2	W16-7P (Lt.)	Downward Diagonal Arrow (Left)	24"x12"	Install new sign.
16	Y1	2	W16-7P (Rt.)	Downward Diagonal Arrow (Right)	24"x12"	Install new sign.
17	Y1	5	W16-9P	Ahead	24"x12"	Install new sign.
18	Y1	1	W14-1	No Outlet	30"x30"	Reinstall existing sign on new steel sign support.
19		3	3	Speed Limit 25		Maintain and protect existing existing sign and steel sign support.
20		1		Bike Lane Ends		Remove existing sign and steel sign support
21		1		No Outlet		Remove existing sign. Maintain and protect existing steel sign support.
22	Y1	40	OM3-L	Object Marker (Left)	12"x36"	Install new sign on new support.
23	W1	4	R4-7	Keep Right	18"x24"	Install new sign and steel sign support.
24		1		Truck Warning Dead End 1/2 Mile No Turn Around		Remove and save existing sign on light pole.
25		1		Truck Warning Dead End 1/2 Mile No Turn Around		Reinstall existing sign on new steel sign support.
26		2		Speed Limit 25		Remove and save existing sign. Dispose existing steel sign support.
27		2		Speed Limit 25		Reinstall existing sign on new steel sign support.
28		4		Stop Sign		Reinstall existing sign on new steel sign support.
29		2		Street Name Sign (5th St)		Reinstall existing sign.
30		4		Street Name Sign (Boones Ferry Rd)		Reinstall existing sign.
31		1		Dead End (Rt Arrow)		Reinstall existing sign.
32		1		Bailey St		Remove and save existing sign.
33		1		Dead End		Remove and save existing sign.
34		1		Your Speed		Maintain and protect existing sign.
35		3		Stop Sign		Remove and save existing sign. Dispose existing steel sign support.
36		2		Bailey St		Reinstall existing sign.
37		1		Dead End		Reinstall existing sign.
38		1		No Parking		Maintain and protect existing sign.
39	Y1	1	W8-6 (mod.)	Truck Entering	36"x36"	Install new sign and steel sign support.



DRAFT REVIEW ONLY NOT FOR CONSTRUCTION

SIGNS SHOWN WITH BROKEN BORDERS ARE EXISTING SIGNS.



City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97170  
Phone 503-682-4960

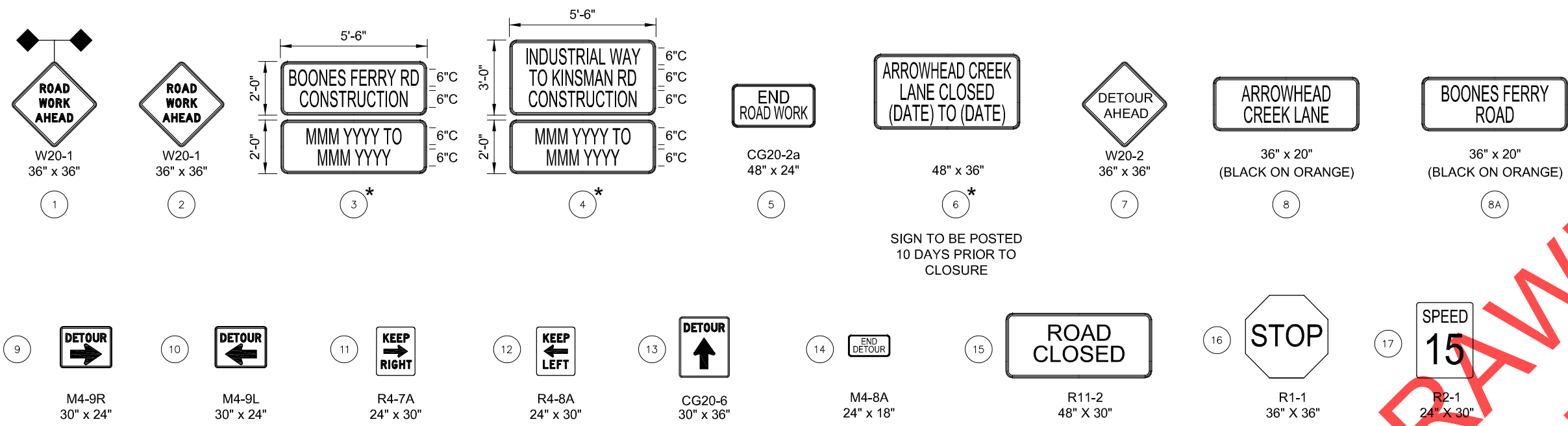


Date: February 2019  
Scale: AS SHOWN  
Designed By: RFV  
Drawn By: DKS CAD  
Checked By: SMM

5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT SIGNING DETAILS

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X:\Projects\2017\17086-000 (WV 5th To Kinsman Extension)\ACAD\TC-01.dwg 2/1/2019 1:06 PM Rachel Vogt



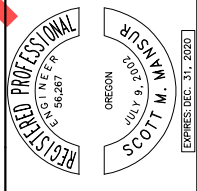
SIGN TO BE POSTED  
10 DAYS PRIOR TO  
CLOSURE

DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION

**NOTE**

\* DATES TO BE DETERMINED BY ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

NO.	REVISIONS



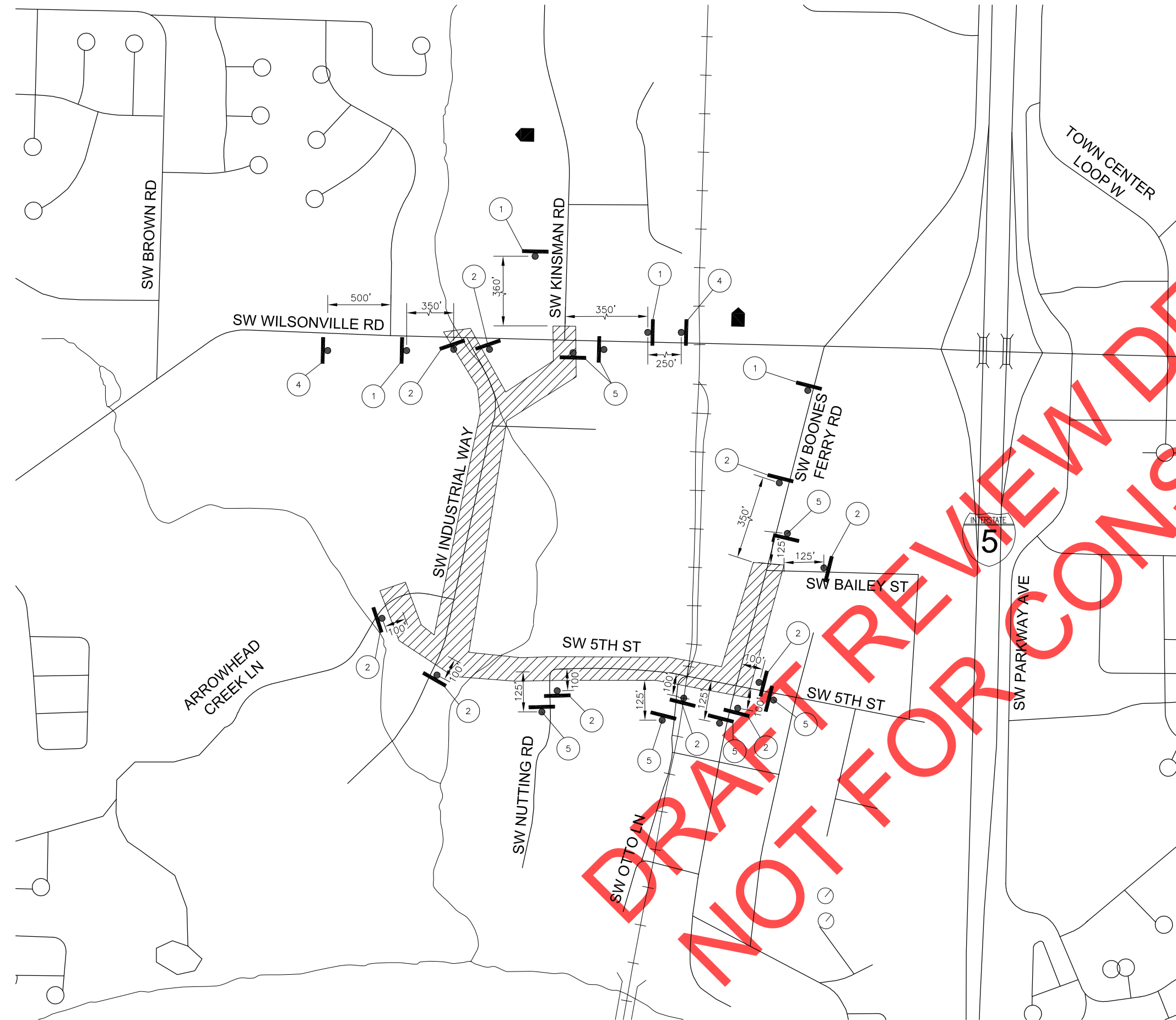
City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97070  
Phone 503-682-4960



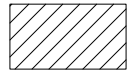


Date: February 2019  
Scale: AS SHOWN  
Designed By: RFV  
Drawn By: DKS CAD  
Checked By: SMM

5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT  
ADVANCE AREA TRAFFIC CONTROL SIGNAGE DETAILS

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**LEGEND**

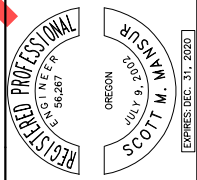
-  WORK ZONE
-  TEMPORARY SIGN ON TEMPORARY SUPPORT
-  SIGN DETAIL, SEE DETAILS ON SHEET TC-01

**GENERAL NOTES**

1. FINAL LOCATION OF SIGNS TO BE FIELD VERIFIED AND CONFIRMED BY THE ENGINEER.
2. SIGN LOCATION TO CHANGE ACCORDING TO STAGING AS CONFIRMED BY THE ENGINEER.

**REVISIONS**

NO.	DATE	DESCRIPTION



City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960



Date: February 2019  
 Scale: AS SHOWN  
 Designed By: RFV  
 Drawn By: DKS CAD  
 Checked By: SMM

**5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT**  
**ADVANCE AREA TRAFFIC CONTROL SIGNAGE**



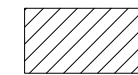
**DKS** 117 Commercial St NE, Suite 310  
 Salem, Oregon 97301  
 www.dksassociates.com

CIP # 4196  
 PROJECT # 2017-02-001  
 TC-02  
 209 of 211

REVIEW SET - NOT FOR CONSTRUCTION

STAGE 2  
PHASE 4  
(SEE SHEET CP-00 AND CP-02)

LEGEND



WORK ZONE



TEMPORARY SIGN ON  
TEMPORARY SUPPORT



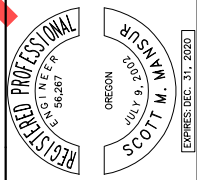
SIGN DETAIL, SEE DETAILS  
ON SHEET TC-01

CONSTRUCTION NOTES

THIS SIGN COULD BE REPLACED WITH A  
PORTABLE CHANGEABLE MESSAGE SIGN.



DRAFT REVIEW DRAWINGS  
NOT FOR CONSTRUCTION



City of Wilsonville  
Engineering Department  
29799 SW Town Center Loop E  
Wilsonville, OR 97170  
Phone 503-682-4960



Date: February 2019  
Scale: AS SHOWN  
Designed By: RFV  
Drawn By: DKS CAD  
Checked By: SMM

5th STREET/KINSMAN ROAD IMPROVEMENT  
PROJECT  
INDUSTRIAL WAY DETOUR PLAN

**DKS** 117 Commercial St NE, Suite 310  
Salem, Oregon 97301  
www.dksassociates.com  
REVIEW SET - NOT FOR CONSTRUCTION

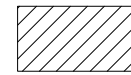
CIP# 4196  
PROJECT# 2017-02-001  
TC-03  
210 of 211

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**LEGEND**



WORK ZONE



TEMPORARY SIGN ON TEMPORARY SUPPORT



SIGN DETAIL, SEE DETAILS ON SHEET TC-01



8' TYPE (III) BARRICADE (REFER TO OTTC PG.36)

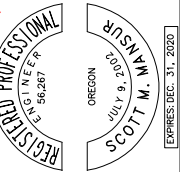
**CONSTRUCTION NOTES**

- 1. INSTALL SIGN ON TEMPORARY BARRICADE

**GENERAL NOTES**

1. MAINTAIN SOUTHBOUND TRAFFIC ON SW BOONES FERRY ROAD AT ALL TIMES.
2. PROVIDE A PEDESTRIAN PATHWAY ON SW BOONES FERRY ROAD AT ALL TIMES DURING CONSTRUCTION OPERATIONS.

REVISIONS



City of Wilsonville  
 Engineering Department  
 29799 SW Town Center Loop E  
 Wilsonville, OR 97070  
 Phone 503-682-4960



Date: February 2019  
 Scale: AS SHOWN  
 Designed By: RFV  
 Drawn By: DKS CAD  
 Checked By: SMM

5th STREET/KINSMAN ROAD IMPROVEMENT PROJECT  
 BOONES FERRY ROAD DETOUR PLAN



117 Commercial St NE, Suite 310  
 Salem, Oregon 97301  
 www.dksassociates.com

REVIEW SET - NOT FOR CONSTRUCTION

CIP# 4196  
 PROJECT # 2017-02-001  
 TC-04  
 211 of 211

DRAFT REVIEW FOR CONSTRUCTION

# SW 5TH STREET CROSSING PROJECT

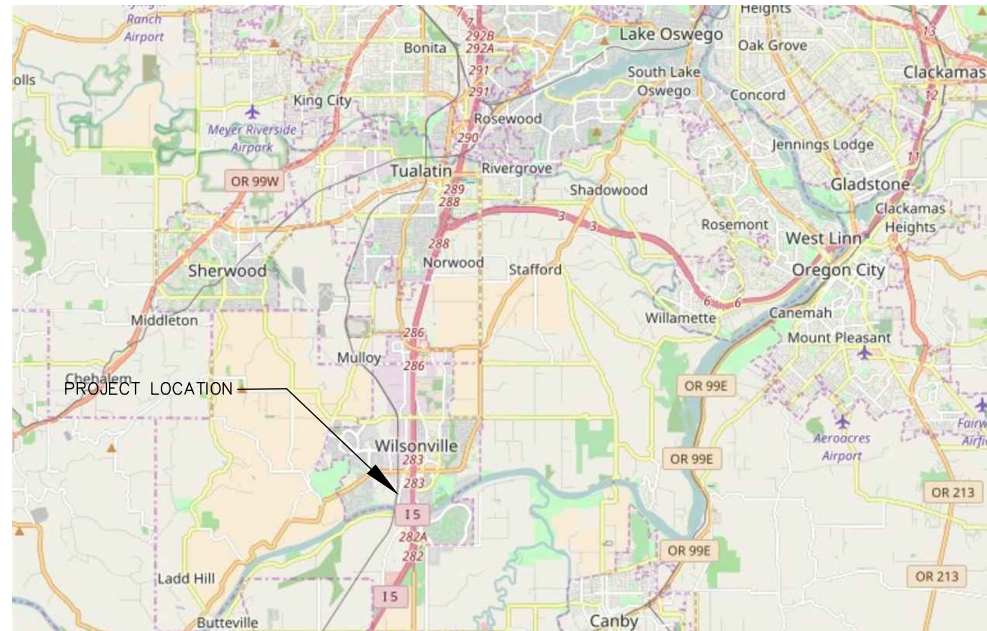
## PORTLAND & WESTERN RAILROAD

### M.P. 42.97, OREGON ELECTRIC DISTRICT

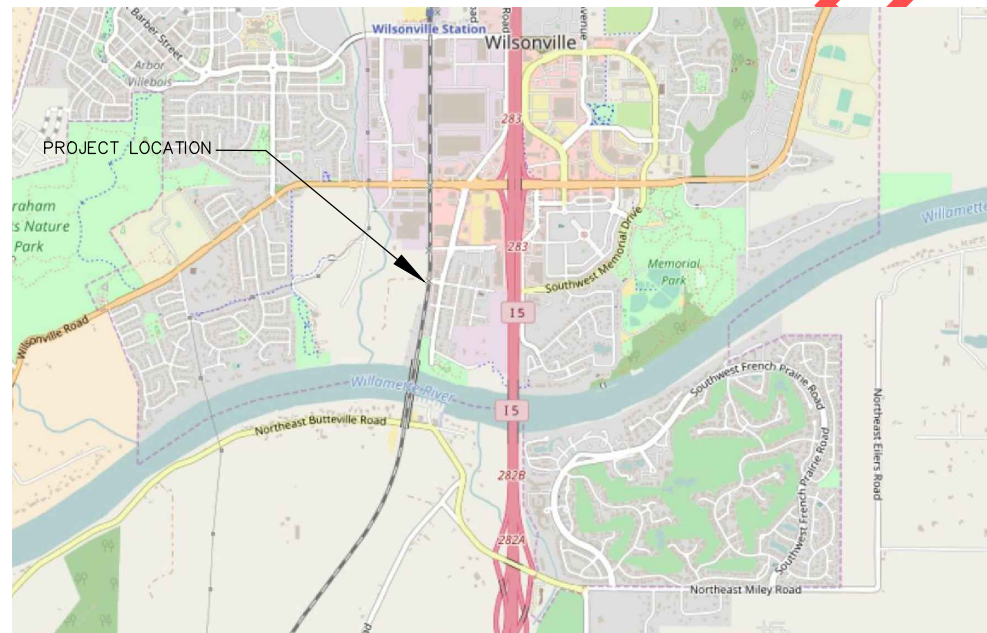
### WILSONVILLE, OREGON

#### GENERAL NOTES:

- ALL TRACK WORK SHALL BE DONE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS OF THE AMERICAN RAILWAY ENGINEERING ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING (CURRENT ISSUE), STANDARDS OF THE PNWR AND THE CONTRACT DRAWINGS. IN THE EVENT OF ANY DISCREPANCY, CONFLICT OR AMBIGUITY BETWEEN THE AREMA, THE PNWR, THE CONTRACT DRAWINGS AND THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE FOR A WRITTEN DETERMINATION. ANY ADJUSTMENT OR DECISIONS MADE BY THE CONTRACTOR, WITHOUT SUCH, SHALL BE AT HIS OWN DETERMINATION, RISK AND EXPENSE. ALL TRACKWORK NOT DETAILED ON THESE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT AREMA SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN EXISTING SURVEY CONTROL POINTS AND BENCH MARKS. SURVEY POINTS OR BENCH MARKS DAMAGED OR REMOVED BY CONTRACTOR SHALL BE RESTORED BY A REGISTERED LAND SURVEYOR AT CONTRACTOR'S EXPENSE. TOPOGRAPHIC SURVEYOR: OTAK, INC., JERRY OSGOOD, PLS. (503) 415-2396.
- ALL EXISTING BONDED RAIL AFFECTED BY CONSTRUCTION SHALL BE PROTECTED AND RETURNED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UPON THE COMPLETION OF RAIL REPLACEMENT, LINING AND SURFACING OPERATIONS.
- CONTRACTOR STAGING, STORAGE, PARKING, AND SERVICE AREA(S) WILL BE SUBJECT TO THE APPROVAL OF THE RAILROAD.
- THE CONTRACTOR SHALL ADHERE TO THE MINIMUM SAFETY REQUIREMENTS FOR CONTRACTORS WORKING ON OR ADJACENT TO PNWR TRACK, AS PROVIDED IN "GENESEE & WYOMING INC. CONTRACTOR SAFETY RULES". THIS DOCUMENT IS INCLUDED IN THE CONTRACT MANUAL, APPENDIX B. IN ADDITION, THE CONTRACTOR'S EMPLOYEES WHO ARE WORKING ON OR NEAR PNWR TRACK MUST BE SAFETY QUALIFIED BY THE PNWR PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION, INCLUDING UTILITIES, SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COVERING OVER WITH BACKFILL AND/OR FUTURE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER'S REPRESENTATIVE THAT THE CONSTRUCTION IS READY FOR REVIEW IN A TIMELY MANNER THAT ALLOWS SCHEDULING FOR THE OWNER'S REPRESENTATIVE AND DOES NOT HINDER PROGRESS OF THE CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER'S REPRESENTATIVE, PRIOR TO PERFORMING ANY WORK ASSOCIATED WITH A FIELD CHANGE, OF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES THAT WILL REQUIRE A FIELD CHANGE AND THEREFORE A SUBSEQUENT COST CHANGE ORDER. THE CONTRACTOR SHALL SUBMIT, IN WRITING, ANY ADDITIONAL COSTS ASSOCIATED WITH ANY SUCH FIELD CHANGE AND RECEIVE WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING THAT WORK OR PROCEED WITHOUT SUCH DETERMINATION AT HIS OWN RISK AND EXPENSE. PROJECT WORK WILL NOT BE COMPLETE OR ACCEPTED UNTIL INSPECTED AND APPROVED BY PORTLAND & WESTERN RAILROAD (PNWR).
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF CONFLICTS OR RAILWAY CROSSINGS IN THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL UTILITIES FROM DAMAGE AND SHALL BEAR THE COMPLETE AND TOTAL EXPENSE FOR REPAIR OR REPLACEMENT OF THE UTILITY INCLUDING ANY AND ALL LOSS OF SERVICE COSTS OR FINES ASSOCIATED WITH THIS DAMAGE INCLUDING SECONDARY DAMAGE TO ADJACENT STRUCTURES, FACILITIES, ETC.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL AND OTHER MATERIAL IN THE CONSTRUCTION AND WHERE INDICATED ON THE PLANS. THE MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL MACHINERY, EQUIPMENT, SURPLUS MATERIALS, RUBBISH OR OTHER TEMPORARY ITEMS USED DURING CONSTRUCTION AND TO LEAVE THE SITE IN A CONDITION APPROVED BY THE OWNER.
- ALL GRADING AND BACKFILLING TO CONFORM TO THE CONSTRUCTION DRAWINGS AND THE ENGINEER'S RECOMMENDATIONS.
- ALL WORK PERFORMED WITHIN 25' OF THE CENTERLINE OF THE PNWR MAIN LINE SHALL BE PERFORMED UNDER FLAG PROTECTION PROVIDED BY THE PNWR RAILROAD. ALL WORK PERFORMED WITHIN THIS 25' ENVELOPE SHALL BE PERFORMED IN ACCORDANCE WITH THE PNWR SAFETY STANDARDS.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING RAIL, SITE FACILITIES AND OTHER ITEMS DISTURBED IN THE COURSE OF CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN THE EXISTING CONDITION. AT RAIL TIE-IN WITH THE EXISTING TRACK THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION WITHOUT SHARP HORIZONTAL OR VERTICAL BREAKS.
- THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO MINIMIZE SOIL EROSION AND SILTATION, WATER POLLUTION, AIR AND NOISE POLLUTION CAUSED BY HIS OPERATIONS. THE CONTRACTOR SHALL ALSO COMPLY WITH THE APPLICABLE REGULATIONS OF ALL LEGALLY CONSTITUTED AUTHORITIES RELATING TO POLLUTION PREVENTION AND CONTROL. THE CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED OF ALL SUCH REGULATIONS WHICH IN ANY WAY AFFECT THE CONDUCT OF THE WORK, AND SHALL AT ALL TIMES OBSERVE AND COMPLY WITH ALL SUCH REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN SUCH REGULATIONS AND THE REQUIREMENTS OF THE SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENTS APPLY. THE CONTRACTOR SHALL COORDINATE EROSION CONTROL WITH THE CITY OF WILSONVILLE AND THEIR CONTRACTOR.
- NOTE THAT THIS IS OREGON AND ALL CONSTRUCTION, REGARDLESS OF TIME OF YEAR, MAY BE DONE IN WET WEATHER CONDITIONS. ALL GROUND, INCLUDING SITE ACCESS, MAY BE MUDDY AND ALL DITCHES FULL OF WATER AT ANY TIME. CONTRACTOR TO PROVIDE WHATEVER MEANS REQUIRED TO PERFORM THE PROJECT IN THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. ALSO PLEASE NOTE THAT THE PROJECT SCHEDULE IS SUBJECT TO CHANGE DUE TO RAILROAD OPERATIONS, PROJECT SCHEDULING, ETC.



REGIONAL VICINITY MAP



VICINITY MAP

#### ABBREVIATIONS

AC	ASPHALTIC CONCRETE PAVING
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
AP	ANGLE POINT
APPROX	APPROXIMATE
BM	BENCH MARK
BVC	BEGIN VERTICAL CURVE
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
COMP	COMPROMISE
CONC	CONCRETE
CSP	CORRUGATED STEEL PIPE
CS	POINT OF CURVE TO SPIRAL
DIA OR Ø	DIAMETER
EA	EACH
ELEV OR EL	ELEVATION
EOT	END OF TRACK
EVC	END VERTICAL CURVE
F/L	FLOW LINE
GB	GRADE-BREAK
HP	HIGH POINT
IE	INVERT ELEVATION
IJ	INSULATED JOINT
LP	LOW POINT
LH	LEFT HAND
MAX	MAXIMUM
MIN	MINIMUM
MP	MILE POST
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	POINT OF CURVE
PITO	POINT OF INTERSECTION OF TURNOUT
PT	POINT OF TANGENT
PS	POINT OF SWITCH
PVI	POINT OF VERTICAL INTERSECTION
PWRR	PORTLAND & WESTERN RAILROAD
RH	RIGHT HAND
R/W	RIGHT-OF-WAY
SC	POINT OF SPIRAL TO CURVE
ST	POINT OF SPIRAL TO TANGENT
STA	STATION
STD	STANDARD
T/R	TOP OF RAIL
TF	TRACK FOOT OR TRACK FEET
TS	POINT OF TANGENT TO SPIRAL
TYP	TYPICAL

#### CONSTRUCTION WINDOW

THE PNWR WILL ALLOW AN INITIAL 48 HOUR WEEKEND CLOSURE (TO BE COORDINATED AND SCHEDULED WITH THE PNWR) FOR THE EXCAVATION AND BUILDING OF THE TRACK AT THE CROSSING. FOLLOWING THE INITIAL CLOSURE, ALL WORK WILL BE PERFORMED IN 12 HOUR CLOSURE WINDOWS. AT THE END OF EACH 12 HOUR TRACK CLOSURE THE TRACK MUST BE OPERATIONAL FOR TRAIN MOVEMENT. THE REMAINDER OF THE WORK, INCLUDING ALL WORK UNDER THE SIGNAL CONTRACT, WILL BE PERFORMED UNDER TRAFFIC AND COORDINATED WITH THE RAILROAD. 5TH STREET WILL BE CLOSED BY THE CITY FOR THE DURATION OF THE RAIL PROJECT.

#### DRAWING INDEX:

- R1 DRAWING INDEX & GENERAL NOTES
- R2 TRACK RECONSTRUCTION PLAN
- R3 TRACK RECONSTRUCTION PROFILE
- R4 SW 5TH STREET TRACK CROSSING PLAN
- R5 DRAINAGE PLAN
- R6 DRAINAGE PLAN
- R7 TRACK SECTIONS
- R8 TRACK SECTIONS
- R9 TRACK SECTIONS
- R10 TYPICAL TRACK SECTIONS
- R11 TRACK DETAILS
- R12 TRACK DETAILS
- R13 WIRE CLEARANCE DIAGRAM

Thomas W. Wisser, P.E.  
22760 SW Miami Drive  
Tualatin, OR 97062  
503 / 691-6095



EXP: 6/30/18

SW 5TH STREET CROSSING  
WILSONVILLE, OREGON

DRAWING INDEX AND  
GENERAL NOTES

PORTLAND & WESTERN RAILROAD  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717



NO.	REVISION	DATE	ISSUED FOR

SCALE: AS SHOWN DATE  
DESIGNED BY: TWW 1/30/19

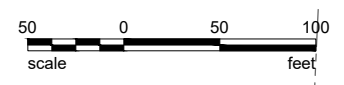
JOB No: 17001 REV.  
DWS. No.

R1 OF

**REDUCED DRAWINGS - DO NOT SCALE**

Jan 30, 2019 - 11:36am j:\mcc\DR\WRE Files\Project\17001 PNWR 5th St Wilsonville\Area\17001D PNWR 5th St Wilsonville - 25 Jan 2019.dwg

ATTENTION :  
Oregon Law Requires You To Follow Rules  
Adopted By The Oregon Utility Notification Center.  
Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090.  
You May Obtain Copies Of The Rules From The Center, (503) 232-1987.



(NOT SHOWN)  
CONTROL POINT Pt. No. 25  
SPIKE  
STA: 1190+12.36, 238.76' RT.  
ELEV: 140.836  
N 603155.7060  
E 7617303.0290

N 603061.7782  
E 7617537.3294

N 603142.4382  
E 7617541.9254

N 602744.5501  
E 7617474.8786

CONTROL POINT Pt. No. 24  
HUB & TACK  
STA: 1193+10.80, 22.95' LT.  
ELEV: 145.417  
N 602827.6180  
E 7617514.7210

N 603105.2764  
E 7617537.3294

CONTROL POINT Pt. No. 23  
RED PLASTIC CAP OTAK  
STA: 1184+89.32, 21.64' LT.  
ELEV: 146.870  
N 603647.8040  
E 7617593.1920

CONTROL POINT Pt. No. 26  
BRASS CAP  
STA: 1184+16.89, 174.33' RT.  
ELEV: 148.260  
N 603716.0900  
E 7617747.7920

N 603737.6799  
E 603737.6799

**TRACK NOTES:**

1. TYPICAL TRACK REALIGN IN RANGE OF 1/2" TO 13 1/2" HORIZONTAL. (SEE TABLE, THIS SHEET)
2. EXISTING RAIL IS 112# CWR. TURNOUT IS 112#.
3. SURFACE, LINE AND DRESS EXISTING TRACK FOR 200' MIN. BEYOND TRACK RAISE TO PROVIDE SMOOTH TRANSITION (TYPICAL).
4. ALL TOP OF RAIL ELEVATIONS SHOWN ARE FOR LOW RAIL (WEST RAIL). PROVIDE 1/2" SUPERELEVATION THROUGH CURVE.
5. CONTRACTOR SHALL BOX ANCHOR ALL TIES PER PLANS AND SPECIFICATIONS FOR 200' EITHER SIDE OF THE CROSSING.
6. CONTRACTOR SHALL REALIGN AND ADJUST SWITCH AFTER SURFACING AND TRACK ALIGNMENT.
7. REPLACE 144 TIES WITHIN THE REGION OF THE REPROFILING. ALSO, REPLACE (3) 9', (3) 10', (1) 11', (3) 12', (1) 13', (4) 14' AND (2) 15' TURNOUT TIES.
8. REPLACE 240 LF (EAST) AND 60 LF (WEST) OF THE EXISTING RAIL BETWEEN THE CROSSING AND THE TURNOUT TO THE NORTH.
9. SAWCUT, REMOVE AND REPLACE THE EXISTING INSULATED JOINTS WITHIN THE TURNOUT WITH (4) NEW ALLEGHENY INSULATED JOINTS PER SPECIFICATIONS.
10. SAWCUT, REMOVE AND WELD 25 JOINTS NORTH OF THE CROSSING AND WELD 8 JOINTS WITHIN THE TURNOUT INCLUDING 4 JUST SOUTH OF WILSONVILLE ROAD.
11. REPLACE THE EXISTING INSULATED GAUGE PLATE AND RODS WITHIN THE TURNOUT.
12. REPLACE STOCK AND CLOSURE RAIL WITHIN THE TURNOUT WITH NEW 112# TO MATCH.

**1 TRACK RECONSTRUCTION PLAN**  
1" = 50'-0"

**TRACK REALIGNMENT TABLE:**

STATION	REALIGNMENT DIST.
1184+00	0.00' BEGIN REALIGN
1185+00	0.04'
1186+00	0.05'
1187+00	0.03'
1188+00	0.98'
1189+00	1.10'
1190+00	0.41'
1191+00	0.00'
1192+00	0.16'
1193+00	0.02'
1194+00	0.00' END REALIGN

**SURVEY CONTROL POINTS:**

1. FOUR CONTROL POINTS PROVIDED BY OTAK ARE LOCATED ON THE PLAN.
2. FIELD VERIFY CONGRUITY BETWEEN POINTS BEFORE USING CONTROL POINTS.
3. FIELD VERIFY THAT POINTS HAVE NOT BEEN DISTURBED.

**ALIGNMENT TABLE: PNWR Main**

NUMBER	RADIUS IN	RADIUS OUT	SUPERELEVATION	CURVE RADIUS	LINE/CHORD BEARING	DELTA	DEG. OF CURVE	LENGTH	L (CH. DEF.)	TANGENT	MID. ORD.	EXTERNAL	T	A	P	K	START STATION	END STATION	START POINT (N,E)	END POINT (N,E)
L-1					S1'32'53"W			595.541'									1180+02.73	1185+98.27	604134.8079, 7617584.7104	603539.4846, 7617568.6214
S-1	INFINITY'	3819.828'	1/2"					100.000'					179.2500	618.048	0.109	50.000	1185+98.27	1186+98.27	603539.4846, 7617568.6214	603439.5346, 7617565.4837
C-1			1/2"	3819.828	S6'22'36"W	8'09'26.1"	1.5000	543.832'		272.376'	9.674'	9.699'					1186+98.27	1192+42.10	603439.5346, 7617565.4837	602899.5235, 7617505.1342
S-2	3819.828'	INFINITY'	1/2"					100.000'					179.2500	618.048	0.109	50.000	1192+42.10	1193+42.10	602899.5235, 7617505.1342	602801.3467, 7617486.1301
L-2					S11'12'19"W			675.191'									1193+42.10	1200+17.29	602801.3467, 7617486.1301	602139.0271, 7617354.9237

**ALIGNMENT TABLE: Turnout**

NUMBER	CURVE RADIUS	LINE/CHORD BEARING	DELTA	DEG. OF CURVE	LENGTH	L (CH. DEF.)	TANGENT	MID. ORD.	EXTERNAL	START STATION	END STATION	START POINT (N,E)	END POINT (N,E)
L-3		N1'17'49"W			88.992'					0+00.00	0+88.99	603457.7854, 7617566.1750	603546.7548, 7617564.1608
C-2	465.783	N10'39'56"W	18'44'13.7"	12.3247	152.322'		76.847'	6.213'	6.297'	0+88.99	2+41.31	603546.7548, 7617564.1608	603695.7797, 7617536.0952
L-4		N20'02'03"W			48.242'					2+41.31	2+89.56	603695.7797, 7617536.0952	603741.1028, 7617519.5684

**NOTES:**

- A. THE STATIONING FOR CURVES IS BASED UPON THE ARC LENGTH OF THE CURVE. THE RR CHORD LENGTH SHOWN WITHIN THE CURVE DATA BLOCK IS CALCULATED BY DIVIDING THE CURVE DELTA ANGLE BY THE DEGREE OF CURVE. THE POINTS OF CURVE AND TANGENT ARE TO BE LAYED OUT ACCORDING TO THE STATIONING AND COORDINATES AND THE CURVE LAYED OUT ACCORDING TO THE CURVE DATA BLOCK.
- B. THE DESIGN IS BASED UPON THE CURRENT AREMA MANUAL FOR RAILWAY ENGINEERING.

**2 ALIGNMENT TABLES**  
N.T.S.

**REDUCED DRAWINGS - DO NOT SCALE**

Jan 30, 2019 - 11:37am j:\mce\DWG\Files\Project\17001 PNWR 5th St Wilsonville\dwg\17001D PNWR 5th St Wilsonville - 25 Jan 2019.dwg

**Thomas W. Wisser, P.E.**  
22750 SW Miami Drive  
Wilsonville, OR 97150  
503 / 691-6095

**DURE**  
WISER RAIL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER  
15,442  
**PRELIMINARY**  
OREGON  
MAY 30, 1991  
THOMAS W. WISSER  
EXP: 6/30/18

**SW 5TH STREET CROSSING**  
WILSONVILLE, OREGON  
**TRACK RECONSTRUCTION PLAN**  
PLAN & PROFILE

**PORTLAND & WESTERN RAILROAD**  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

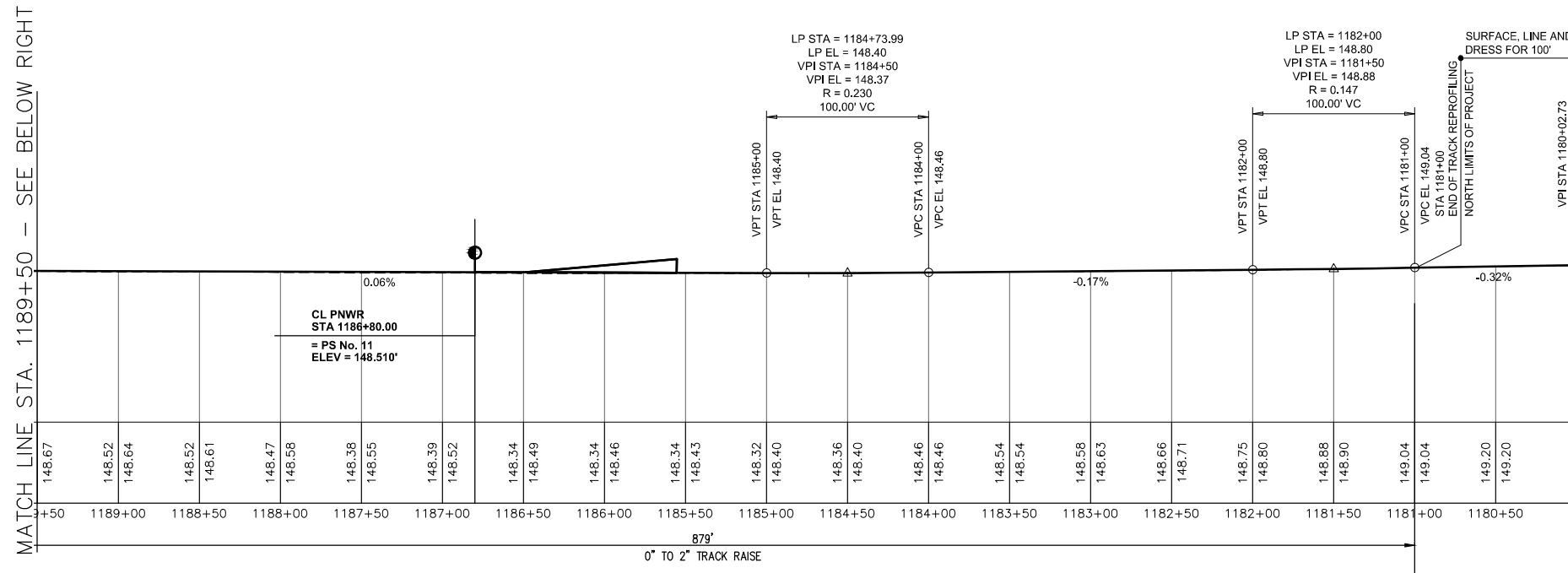
NO.	REVISION	DATE	ISSUED FOR

SCALE: AS SHOWN DATE: 1/30/19  
DESIGNED BY: TWW  
JOB No: 17001  
DWG. No: R2

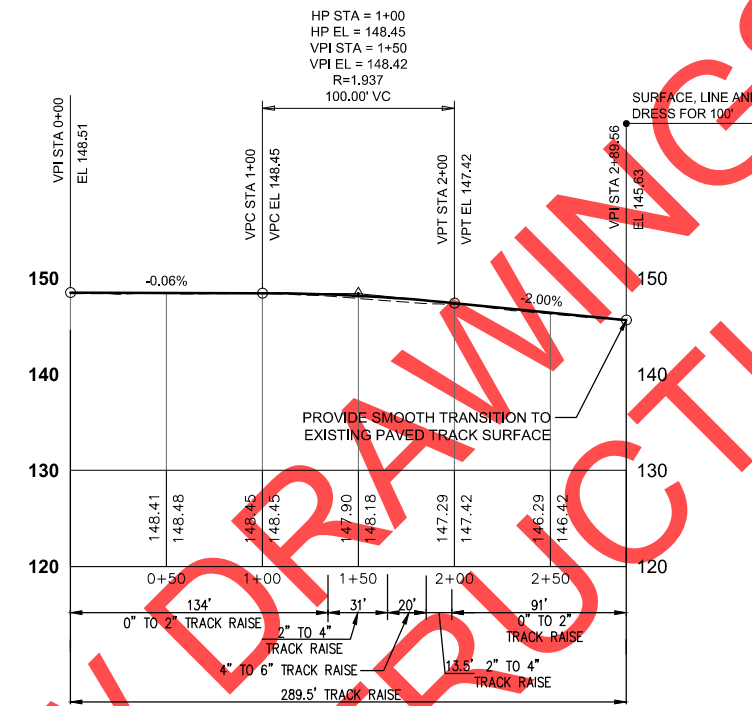
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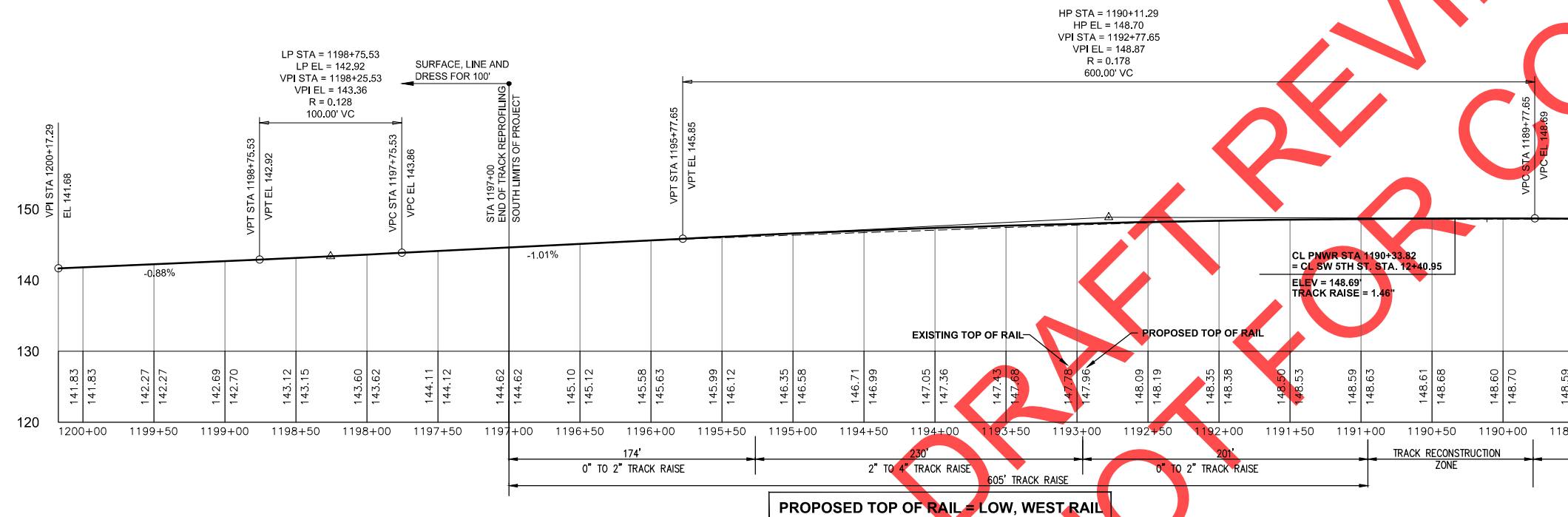
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1 TRACK RECONSTRUCTION PROFILE  
R3 1180+50 TO 1189+50 H: 1" = 50'; V: 1" = 10'



3 TRACK RECONSTRUCTION PROFILE  
R3 SIDING TRACK H: 1" = 50'; V: 1" = 10'



2 TRACK RECONSTRUCTION PROFILE  
R3 1189+50 TO 1200+00 H: 1" = 50'; V: 1" = 10'

MATCH LINE STA. 1189+50 - SEE ABOVE LEFT

MATCH LINE STA. 1189+50 - SEE BELOW RIGHT

PROPOSED TOP OF RAIL = LOW, WEST RAIL

**PRELIMINARY NOT FOR CONSTRUCTION**

**Thomas W. Wisser, P.E.**  
22750 SW Miami Drive  
Wilsonville, OR 97062  
503 / 691-6095

**Wiser Rail Engineering**

REGISTERED PROFESSIONAL ENGINEER  
15,442  
**PRELIMINARY**  
OREGON  
MAY 30, 1991  
THOMAS W. WISER  
EXP: 6/30/18

**PORTLAND & WESTERN RAILROAD**  
SW 5TH STREET CROSSING  
WILSONVILLE, OREGON

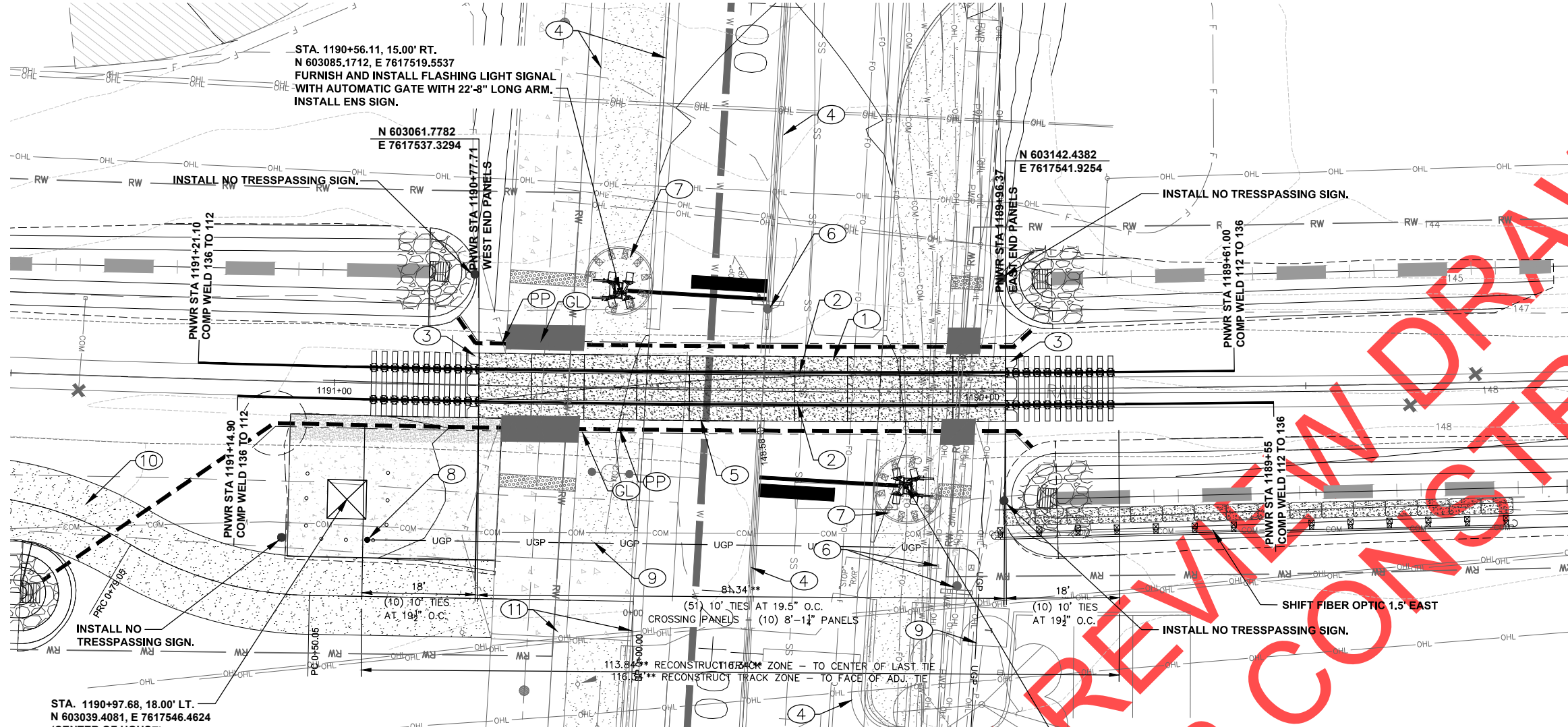
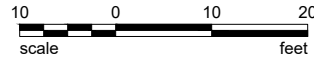
**TRACK RECONSTRUCTION PROFILE**

650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

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DESIGNED BY: TWW  
JOB No: 17001  
DWG. No: R3

**REDUCED DRAWINGS - DO NOT SCALE**



STA. 1190+97.68, 18.00' LT.  
 N 603039.4081, E 7617546.4624  
 (CENTER OF HOUSE)  
 FURNISH AND INSTALL NEW 6' X 6'  
 SIGNAL PAD AND SIGNAL HOUSE.  
 COORDINATE NEW POWER SOURCE  
 FROM PGE.

STA. 1190+56.11, 15.00' RT.  
 N 603085.1712, E 7617519.5537  
 FURNISH AND INSTALL FLASHING LIGHT SIGNAL  
 WITH AUTOMATIC GATE WITH 22'-8" LONG ARM.  
 INSTALL ENS SIGN.

N 603142.4382  
 E 7617541.9254

STA. 1190+11.69, 15.00' LT.  
 N 603125.4051, E 7617554.9778  
 FURNISH AND INSTALL FLASHING LIGHT SIGNAL  
 WITH AUTOMATIC GATE WITH 22'-8" LONG ARM.  
 INSTALL ENS SIGN.

1 TRACK CROSSING PLAN  
 R4  
 1" = 10'-0"

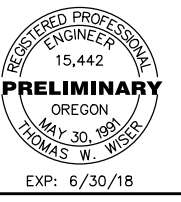
- NOTES:
- A. FIELD LOCATE ALL UTILITIES PRIOR TO EXCAVATION.
  - B. THE DESIGN IS BASED UPON THE CURRENT AREMA MANUAL FOR RAILWAY ENGINEERING.

- LEGEND:
- ☐ OF NEW TRACK ALIGNMENT
  - ☐ EXISTING ALIGNMENT
  - DITCH (D)
  - GRADE LINE (REF. SECTION) (GL)
  - ADS N-12 PERF PIPE (PP)
  - EXISTING FLOW LINE
  - TRACK NOTE
  - EXISTING TRACK JOINT \ WELD

- TRACK NOTES:
1. INSTALL 81.25 FT. OF OMEGA 10' WIDE CONCRETE CROSSING PANELS (10 PANELS) MEETING THE BNSF/UPRR COMMON STANDARDS. PLACE ON 10' TIMBER TIES UTILIZING PANDROL E-CLIPS AND SCREW SPIKES. SIZE FOR 136RE RAIL. PANELS TO MATCH AT INSIDE OF CURVE WITH SLIGHT GAP ON OUTSIDE.
  2. REPLACE 160 LF (SOUTH RAIL) AND 160 LF (NORTH RAIL) OF THE EXISTING 112 CWR RAIL WITH NEW 136RE CWR (NOMINAL 60' EACH DIRECTION FROM THE CENTER OF THE CROSSING). UTILIZE COMPROMISE WELDS BETWEEN THE 136RE AND 112CWR.
  3. INSTALL STEEL END DEFLECTORS, TYPICAL.
  4. PROPOSED STREET CENTERLINE, SIDEWALK, CURB, PAVEMENT MARKINGS - BY OTHERS.
  5. REMOVE EXISTING CROSSING, TRACK, ETC.
  6. REMOVE EXISTING STOP/X-BUCK SIGN.
  7. GUARDRAIL BY OTHERS
  8. POWER METER BASE PER DETAIL 5/R11.
  9. FURNISH AND INSTALL 153 LF, 3" DIAMETER GRAY SCH 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN. 500 LBS TEST) FROM METER POLE TO PGE POLE SHOWN. ELBOWS TO BE 36 INCH RADIUS, FACTORY MADE. LENGTH INCLUDES 8 FT. UP POLE & 4' UP METER STAND. REF. 5/R11, PGE REQUIREMENTS, AND PROJECT SPECIFICATIONS. PGE TO PROVIDE BRACKETS. PROVIDE 36" MINIMUM COVER ON CONDUIT IN TRENCH, WITH 12" VERTICAL AND 24" HORIZONTAL CLEARANCE BETWEEN GAS AND OTHER UTILITIES.
  10. INSTALL 12' WIDE, 12" THICK 1 1/2" MINUS GRAVEL ACCESS ROAD.
  11. INSTALL SIDEWALK SUITABLE AND MOUNTABLE CURB SUITABLE FOR LARGE TRUCK WEIGHTS (BY OTHERS).

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Thomas W. Wiser, P.E.  
 22760 SW Miami Oaks  
 Tualatin, OR 97062  
 503 / 691-6095



PORTLAND & WESTERN RAILROAD  
 SW 5TH STREET CROSSING  
 WILSONVILLE, OREGON  
 TRACK CROSSING PLAN

650 HAWTHORNE AVE., SE  
 SALEM, OR 97301  
 (503) 365-7717



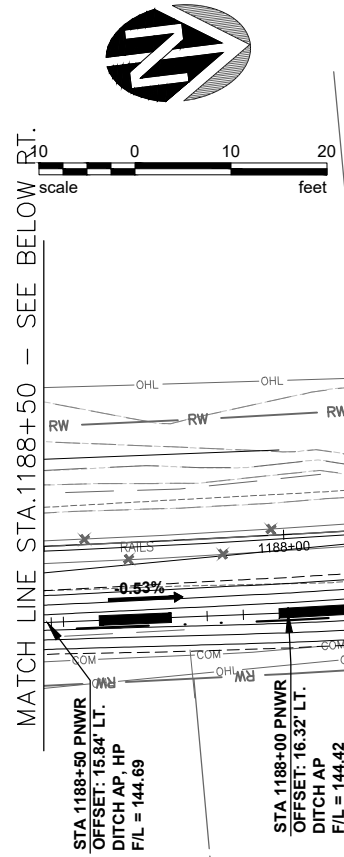
**PRELIMINARY NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	ISSUED FOR

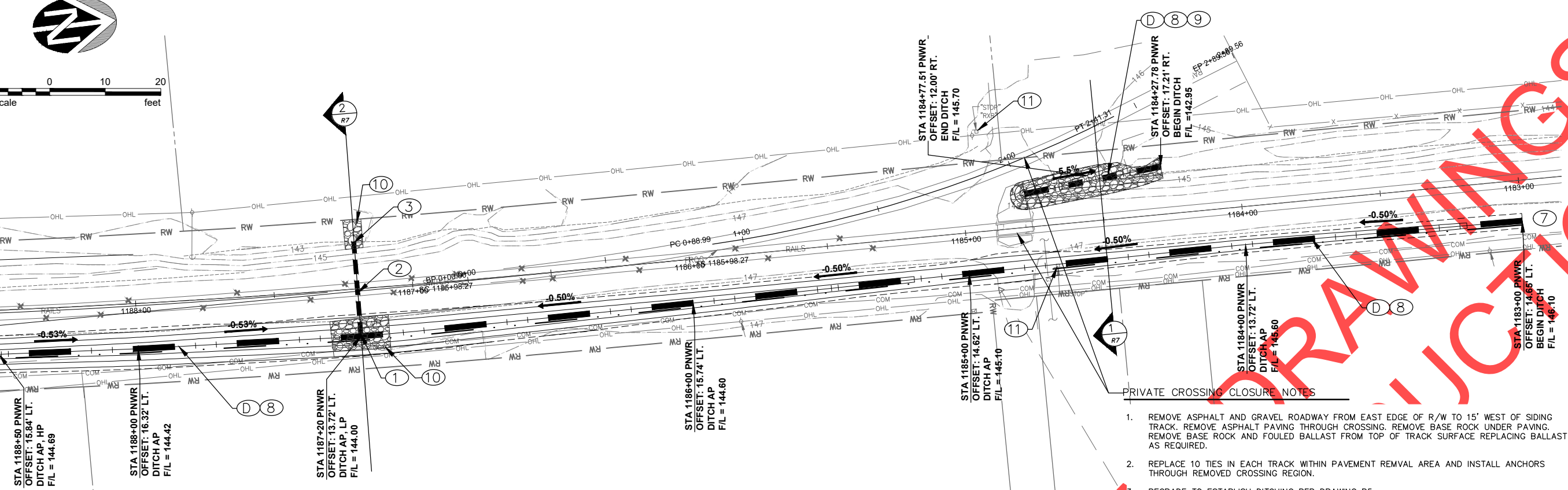
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DESIGNED BY: TWW	1/30/19
JOB No: 17001	REV.
DWG. NO.	R4

**REDUCED DRAWINGS - DO NOT SCALE**

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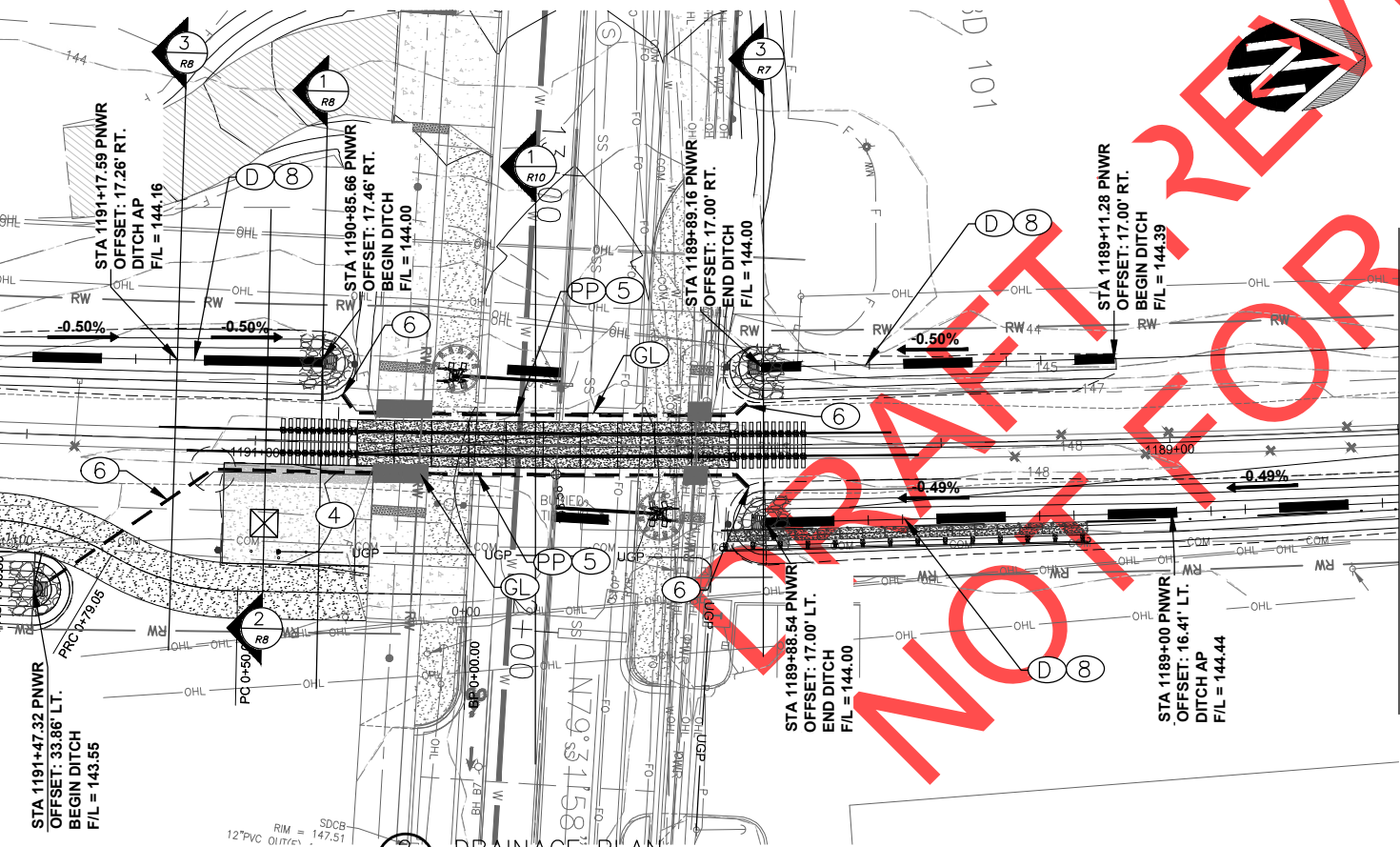
MATCH LINE STA.1188+50 - SEE BELOW RT.



1 DRAINAGE PLAN  
R5  
1" = 20'-0"

- LEGEND:
- Q OF NEW TRACK ALIGNMENT
  - Q OF EXISTING ALIGNMENT
  - DITCH (D)
  - GRADE LINE (REF. SECTION) (GL)
  - ADS N-12 PERF PIPE (PP)
  - EXISTING FLOW LINE
  - TRACK NOTE (1)

MATCH LINE STA.1191+56 - SEE SHEET R6



2 DRAINAGE PLAN  
R5  
1" = 20'-0"

- PRIVATE CROSSING CLOSURE NOTES
1. REMOVE ASPHALT AND GRAVEL ROADWAY FROM EAST EDGE OF R/W TO 15' WEST OF SIDING TRACK. REMOVE ASPHALT PAVING THROUGH CROSSING. REMOVE BASE ROCK UNDER PAVING. REMOVE BASE ROCK AND FOULED BALLAST FROM TOP OF TRACK SURFACE REPLACING BALLAST AS REQUIRED.
  2. REPLACE 10 TIES IN EACH TRACK WITHIN PAVEMENT REMVAL AREA AND INSTALL ANCHORS THROUGH REMOVED CROSSING REGION.
  3. REGRADE TO ESTABLISH DITCHING PER DRAWING R5.
  4. REMOVE CULVERTS, IF PRESENT.
  5. PRIVATE CROSSING CLOSURE MAY PROCEED AFTER RILROAD HAS ISSUED NOTICE OF CLOSURE.
- DRAINAGE NOTES
- A. FIELD LOCATE ALL UTILITIES PRIOR TO EXCAVATION
  1. STA. 1186+20.00, 16.10' LT. 18" CULVERT INLET - IE = 144.00
  2. FURNISH AND INSTALL 33.11 LF 24" ALUMINIZED STEEL CULVERT @ S = 0.0362. REF: (2/R7)
  3. STA. 1186+20.00, 17.01' RT. 18" CULVERT OUTLET - IE = 142.80
  4. EQUIPMENT HOUSE PAD & ACCESS AREA - REMOVE TOP 9" OF ROOT ZONE WHERE PRESENT, AND DISPOSE OFF SITE. PLACE & COMPACT 6" OF 1 1/2" - 0" AGGREGATE SUBBALLAST ON COMPACTED SUBGRADE. REF. 2/R6.
  5. INSTALL 6" ADS N-12 HDPE PERF. PIPE TO DRAIN EACH WAY FROM CENTER OF CROSSING AT 0.5% MIN.
  6. DAYLIGHT 6" ADS N-12 HDPE PERF PIPE. GRADE TO DRAIN TO DITCH.
  7. TRANSITION TO EXISTING DITCH SECTION AND ELEVATION OVER 50' SECTION.
  8. GRADE DITCHES AS SHOWN ON PLAN - 2' WIDE DITCH WITH 2:1 SIDE SLOPES (TYP.)
  9. INSTALL DITCH RIPRAP GRADE TRANSITION PER DETAIL 9/R11.
  10. INSTALL RIPRAP AT PIPE ENDS PER DETAIL 7/R11.
  11. REMOVE STOP, RXR AND PRIVATE CROSSING SIGNS AND POSTS.

REDUCED DRAWINGS - DO NOT SCALE

Thomas W. Wisser, P.E.  
22760 SW Miami Oaks  
Tualatin, OR 97062  
503 / 691-6095

WISER RAIL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER  
15,442  
**PRELIMINARY**  
OREGON  
THOMAS W. WISSER  
EXP: 6/30/18

PORTLAND & WESTERN RAILROAD  
SW 5TH STREET CROSSING  
WILSONVILLE, OREGON  
DRAINAGE PLAN

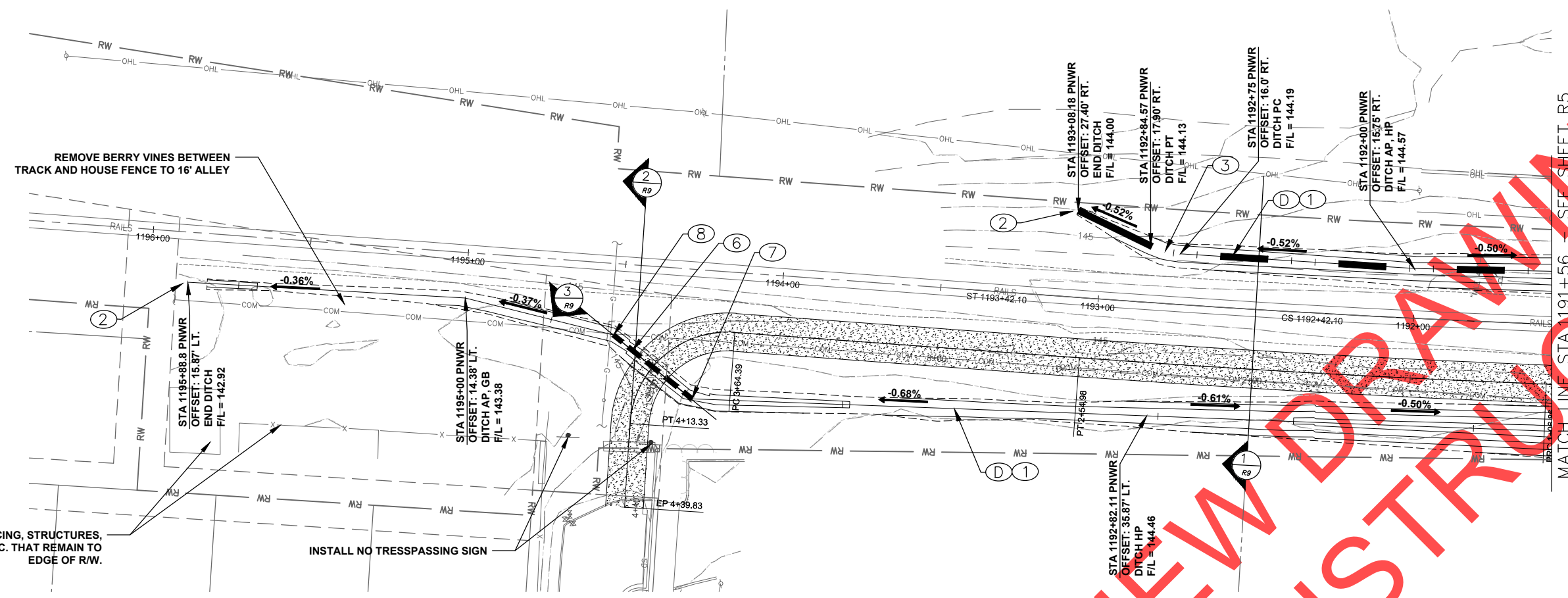
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

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DESIGNED BY: TWW 1/19/18  
JOB No: 17001  
DWG. No: R5

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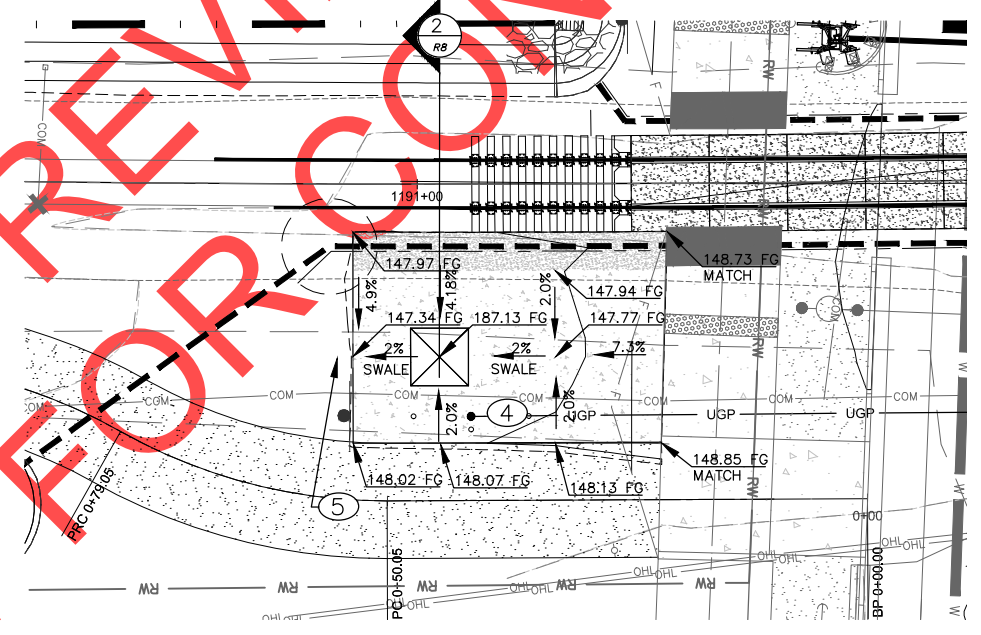
1 DRAINAGE PLAN  
1" = 20'-0"

- DRAINAGE NOTES**
- FIELD LOCATE ALL UTILITIES PRIOR TO EXCAVATION
  - GRADE DITCHES AS SHOWN ON PLAN - 2' WIDE DITCH WITH 2:1 SIDE SLOPES (TYP.)
  - GRADE DITCH TO DAYLIGHT WITHIN PNWR RIGHT-OF-WAY AT SLOPE INDICATED.
  - DITCH CENTERLINE RADIUS = 25'.
  - EQUIPMENT HOUSE PAD. REF NOTE 4, SHEET R5 AND DETAIL 2/R8.
  - GRADE SWALE TO DRAIN TO DITCH.
  - FURNISH AND INSTALL 32 LF 18" ALUMINIZED STEEL CULVERT @ S=0.075.
  - STA 1194+26.01, 41.0' LT, 18" CULVERT INLET - IE=143.66'
  - STA 1194+52.25, 22.6' LT, 18" CULVERT OUTLET - IE=143.42'

**EARTHWORK QUANTITIES (NEAT LINE)**

1. <b>DITCHING</b>	
CUT	750 C.Y.
2. <b>TRACK EXCAVATION</b>	
GRAVEL	14 C.Y.
CUT	118 C.Y.
OVER EXCAVATION	
SUBBALLAST	89 C.Y.
3. <b>EQUIPMENT HOUSE PAD</b>	
STRIPPINGS	18 C.Y.
FILL	21 C.Y.
SUBBALLAST	14 C.Y.
4. <b>RIPRAP</b>	
PER DETAIL 7/R11	307 S.F.
PER DETAIL 9/R11	1011 S.F.
5. <b>CULVERT PIPE</b>	
24" DIA. ALUMINIZED STEEL PIPE	33.11 L.F.
6. <b>CULVERT PIPE</b>	
18" DIA. ALUMINIZED STEEL PIPE	32.0 L.F.

- LEGEND:**
- Q OF NEW TRACK ALIGNMENT
  - Q EXISTING ALIGNMENT
  - DITCH (D)
  - GRADE LINE (REF. SECTION) (GL)
  - ADS N-12 PERF PIPE (PP)
  - EXISTING FLOW LINE
  - TRACK NOTE
  - GRADE TO DRAIN AS INDICATED



2 EQUIPMENT HOUSE PAD GRADING  
1" = 10'-0"

REDUCED DRAWINGS - DO NOT SCALE

Thomas W. Wisser, P.E.  
22760 SW Miami Drive  
Wilsonville, OR 97157  
503 / 691-6095



REGISTERED PROFESSIONAL ENGINEER  
15,442  
OREGON  
THOMAS W. WISSER  
EXP: 6/30/18

SW 5TH STREET CROSSING  
WILSONVILLE, OREGON  
DRAINAGE PLAN

PORTLAND & WESTERN RAILROAD  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

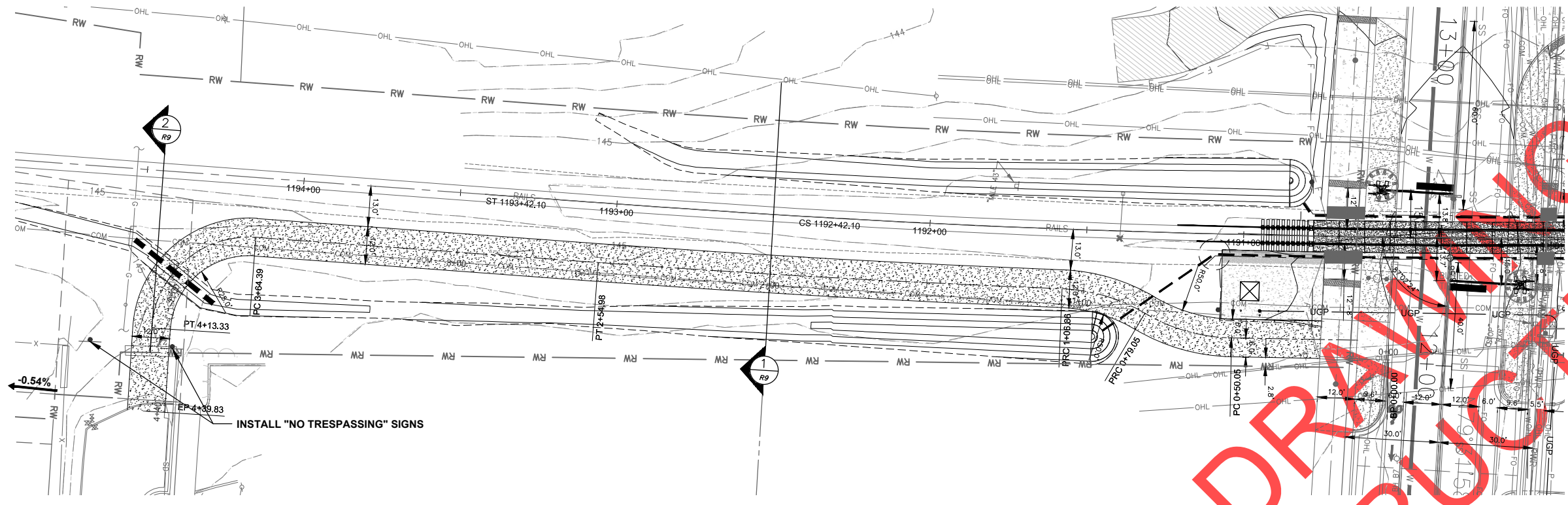


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DESIGNED BY: TWW 1/30/19  
JOB No: 17001  
DWG. No. REV.  
**R6**

DRAFT REVIEW FOR CONSTRUCTION NOT FOR CONSTRUCTION

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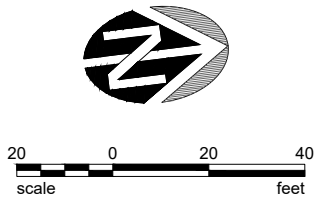
NOTES:

- A. FIELD LOCATE ALL UTILITIES PRIOR TO EXCAVATION.
- B. THE DESIGN IS BASED UPON THE CURRENT AREMA MANUAL FOR RAILWAY ENGINEERING.

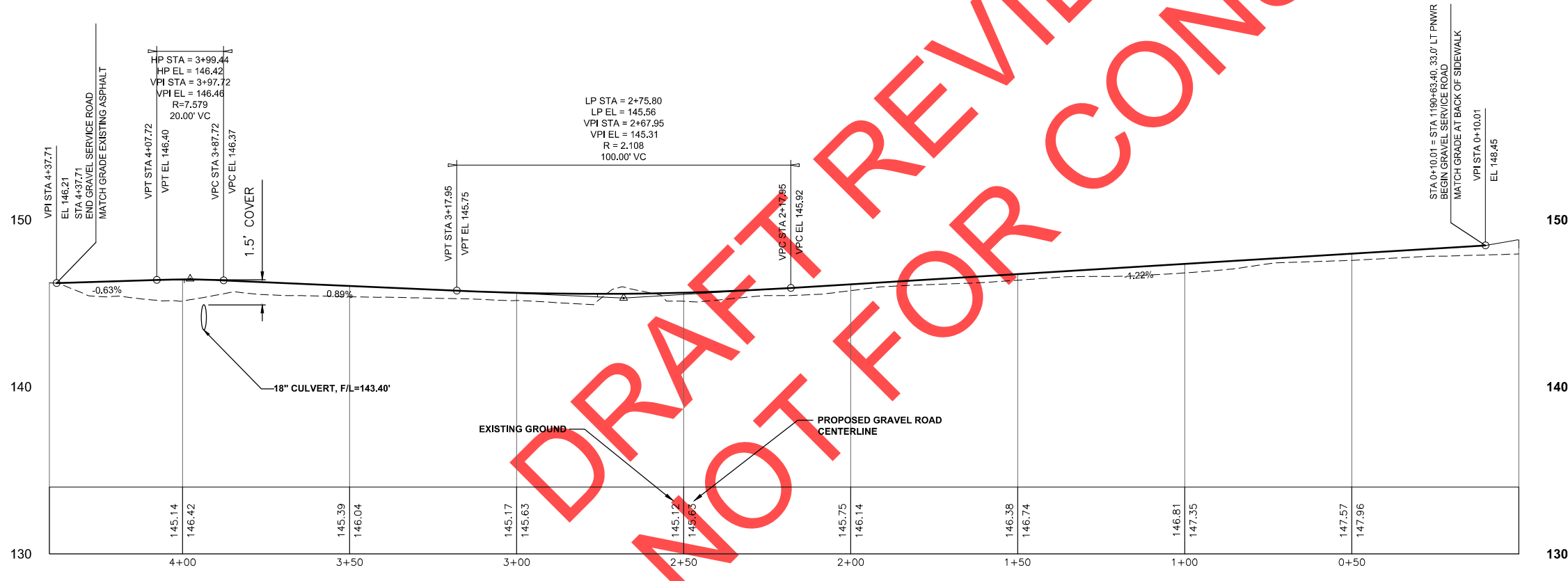
1 SERVICE ROAD PLAN  
R6A 1" = 20'-0"

ROAD NOTES:

CONSTRUCT 12" GRAVEL ROAD PER ODOT STANDARD SPECIFICATION SECTION 00640. PLACE OVER GEOTEXTILE FABRIC PER SPECIFICATION SECTION 17.3C. DRIVEWAY SURFACE GRADED TO DRAIN TO DITCH.



- LEGEND:
- ☐ OF NEW TRACK ALIGNMENT
  - ☐ EXISTING ALIGNMENT
  - DITCH (D)
  - GRADE LINE (REF. SECTION) (GL)
  - ADS N-12 PERF PIPE (PP)
  - EXISTING FLOW LINE
  - TRACK NOTE
  - GRADE TO DRAIN AS INDICATED



2 SERVICE ROAD PLAN  
R6A H: 1"=20'; V: 1"=4'

DRAFT REVIEW DRG NOT FOR CONSTRUCTION

**PRELIMINARY NOT FOR CONSTRUCTION**

Thomas W. Wisner, P.E.  
22760 SW Miami Drive  
Wilsonville, OR 97150  
503 / 681-6095

REGISTERED PROFESSIONAL ENGINEER  
15,442  
**PRELIMINARY**  
OREGON  
MAY 30, 1991  
THOMAS W. WISNER  
EXP: 6/30/18

**SW 5TH STREET CROSSING**  
WILSONVILLE, OREGON  
**SERVICE ROAD PLAN**

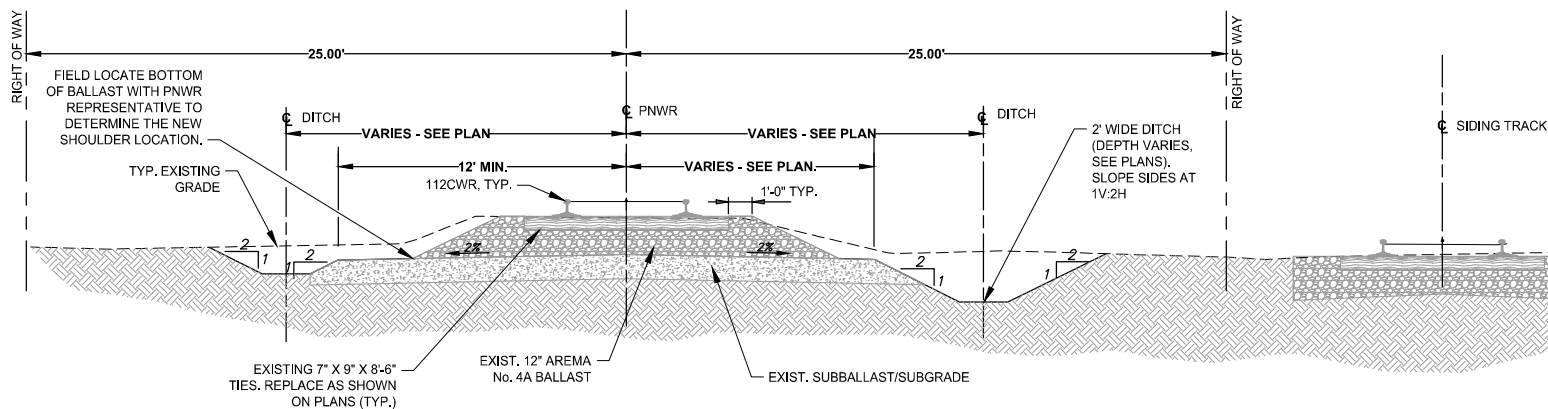
**PORTLAND & WESTERN RAILROAD**  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

NO.	REVISION	DATE	ISSUED FOR

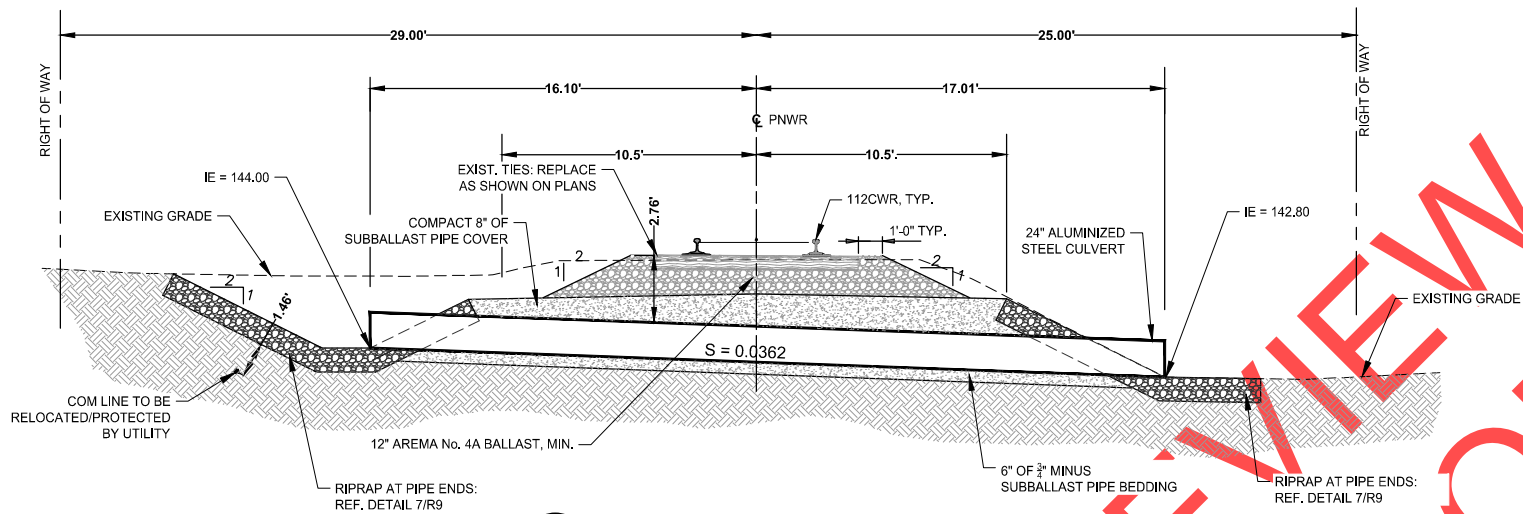
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DESIGNED BY: TWW 1/30/19  
JOB No: 17001  
DWG. No: R6A

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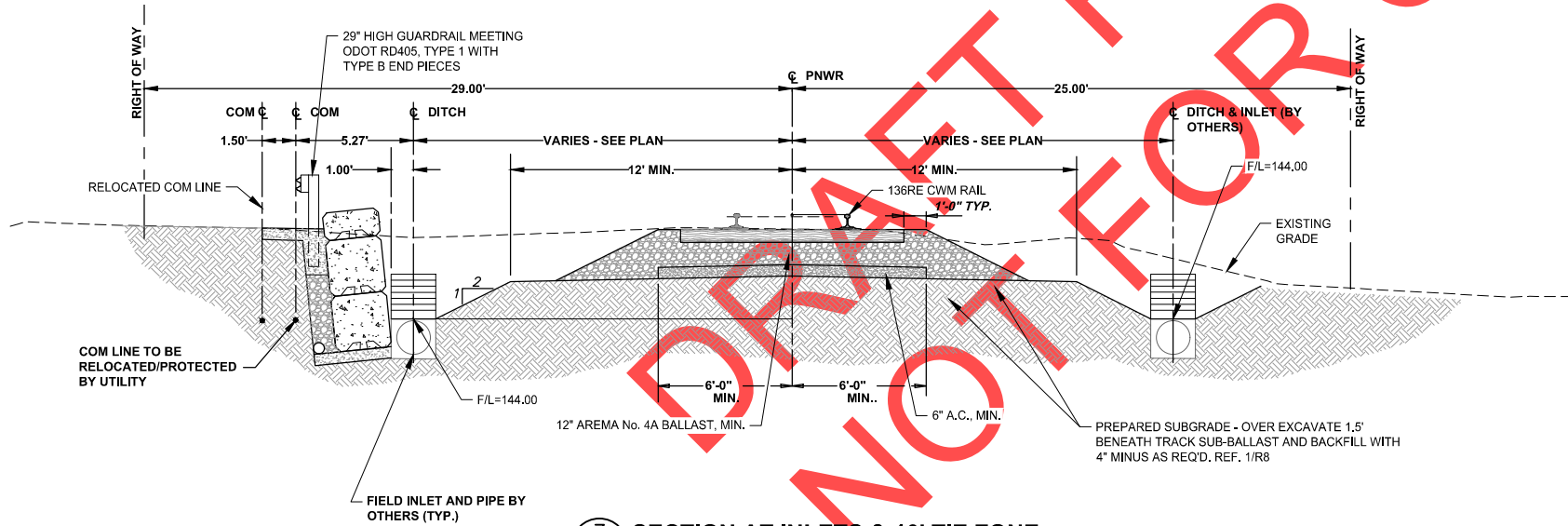
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1 TRACK SECTION  
R7 STA. 1184+50 1/4" = 1'-0"



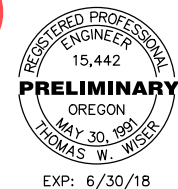
2 SECTION AT CULVERT CROSSING  
R7 STA. 1187+20 1/4" = 1'-0"



3 SECTION AT INLETS & 10' TIE ZONE  
R7 STA. 1189+88.54 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Thomas W. Wisser, P.E.  
22760 SW Miami Oaks  
Wilsonville, OR 97156  
503 / 681-6095



SW 5TH STREET CROSSING  
WILSONVILLE, OREGON

TYPICAL SECTIONS

PORTLAND & WESTERN RAILROAD

650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

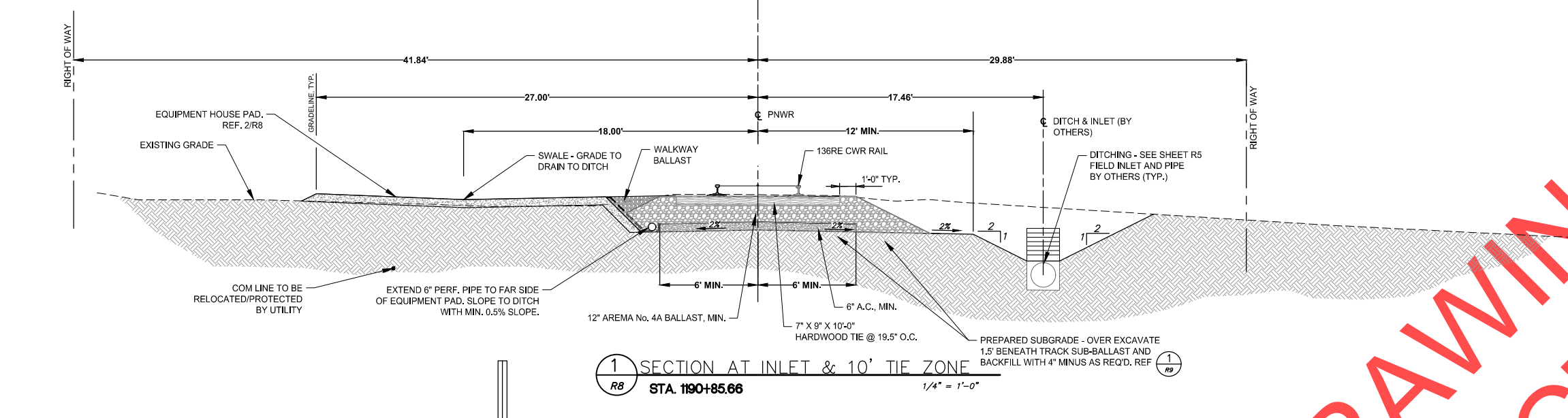


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DESIGNED BY:	TWW	1/30/19
JOB No:	17001	
DWG. NO.		
REV.		

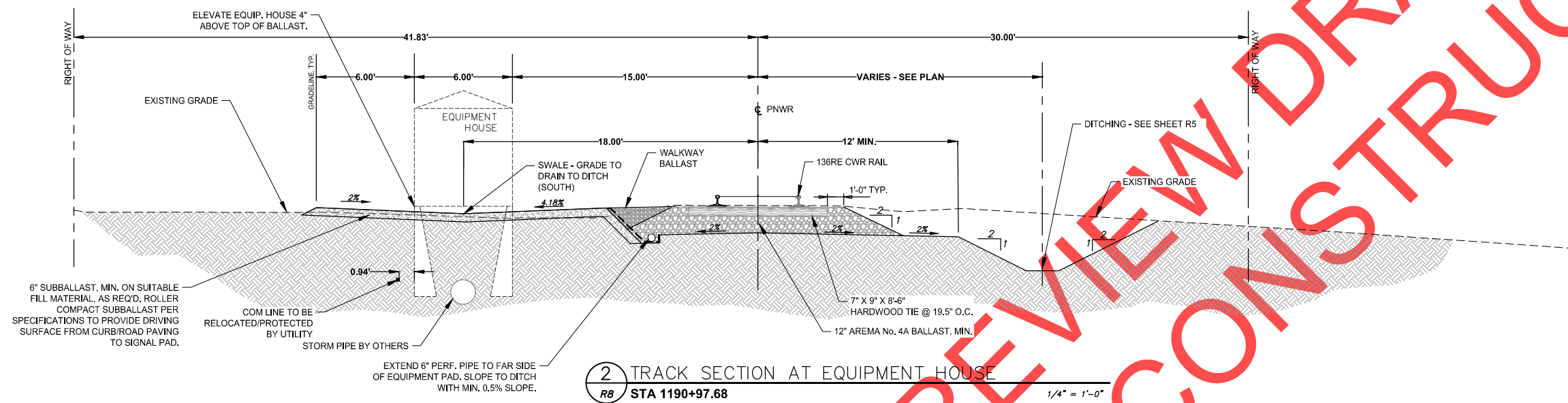
REDUCED DRAWINGS - DO NOT SCALE

R7

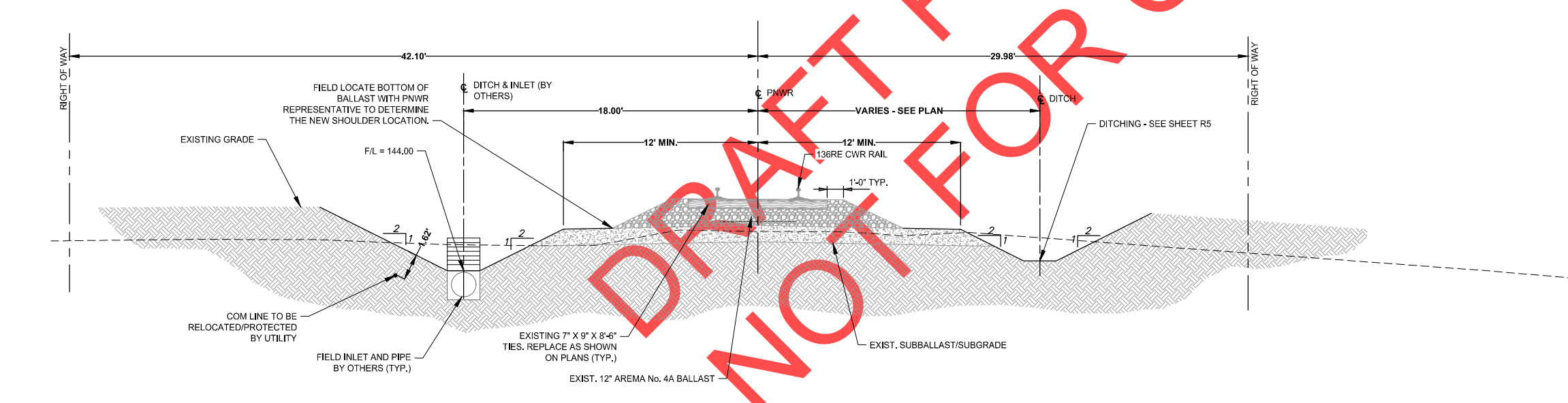
Jan 30, 2019 - 11:54am j:\mcc\DWIRE Files\Project\17001 PNWR 5th St Wilsonville\dwg\17001D PNWR 5th St Wilsonville - 25 Jan 2019.dwg



1 SECTION AT INLET & 10' TIE ZONE  
R8 STA. 1190+85.66 1/4" = 1'-0"



2 TRACK SECTION AT EQUIPMENT HOUSE  
R8 STA 1190+97.68 1/4" = 1'-0"



3 TRACK SECTION AT INLET  
R8 STA 1191+17.59 1/4" = 1'-0"

DRAFT REVIEW DRAWINGS NOT FOR CONSTRUCTION

**Thomas W. Wisler, P.E.**  
 22760 SW Miami Drive  
 Wilsonville, OR 97062  
 503 / 681-6085



**DWIRE**  
 WISLER RAIL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER  
 15,442  
**PRELIMINARY**  
 OREGON  
 THOMAS W. WISLER  
 MAY 30, 1981  
 EXP: 6/30/18

**SW 5TH STREET CROSSING**  
 WILSONVILLE, OREGON

**TYPICAL SECTIONS**

**PORTLAND & WESTERN RAILROAD**

650 HAWTHORNE AVE., SE  
 SALEM, OR 97301  
 (503) 365-7717

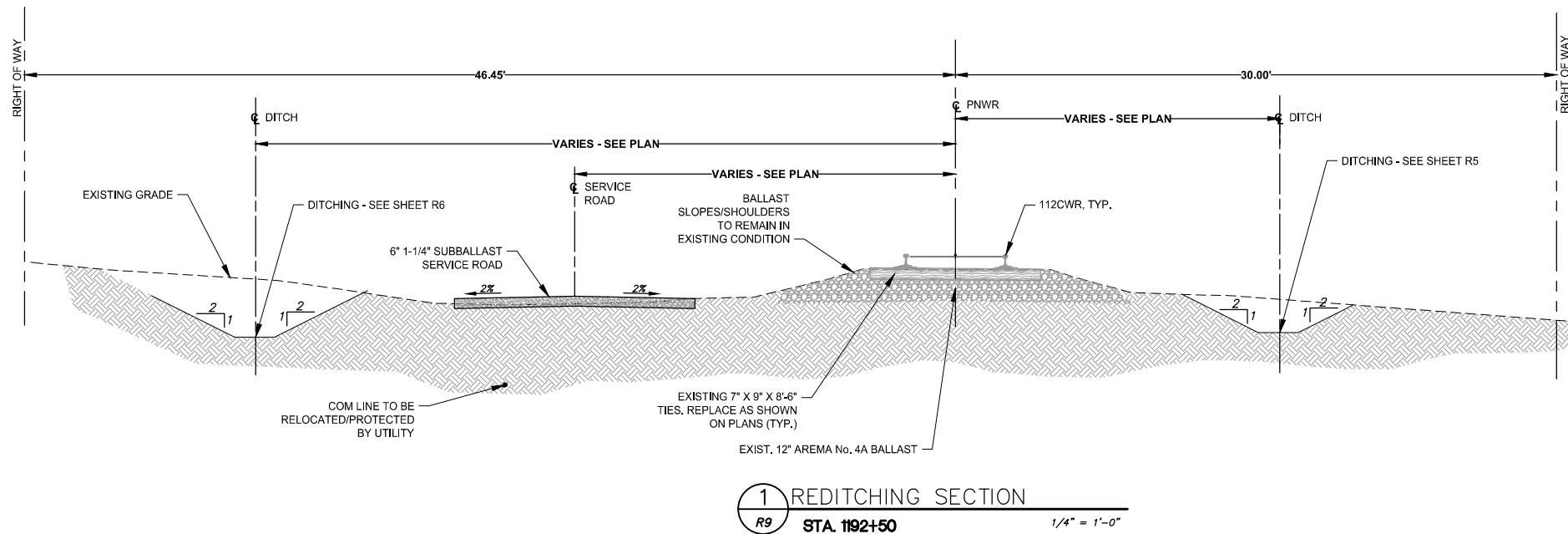


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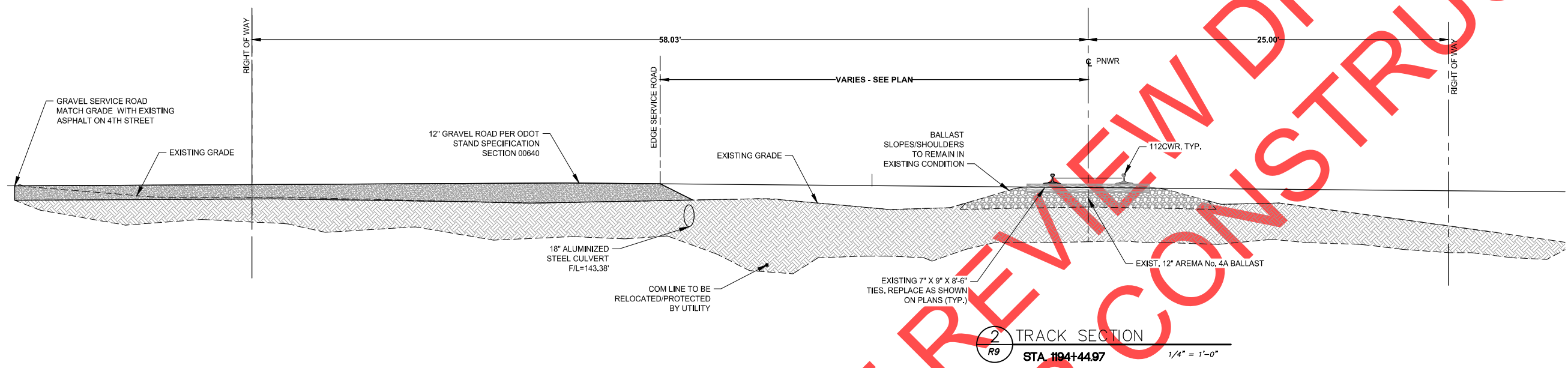
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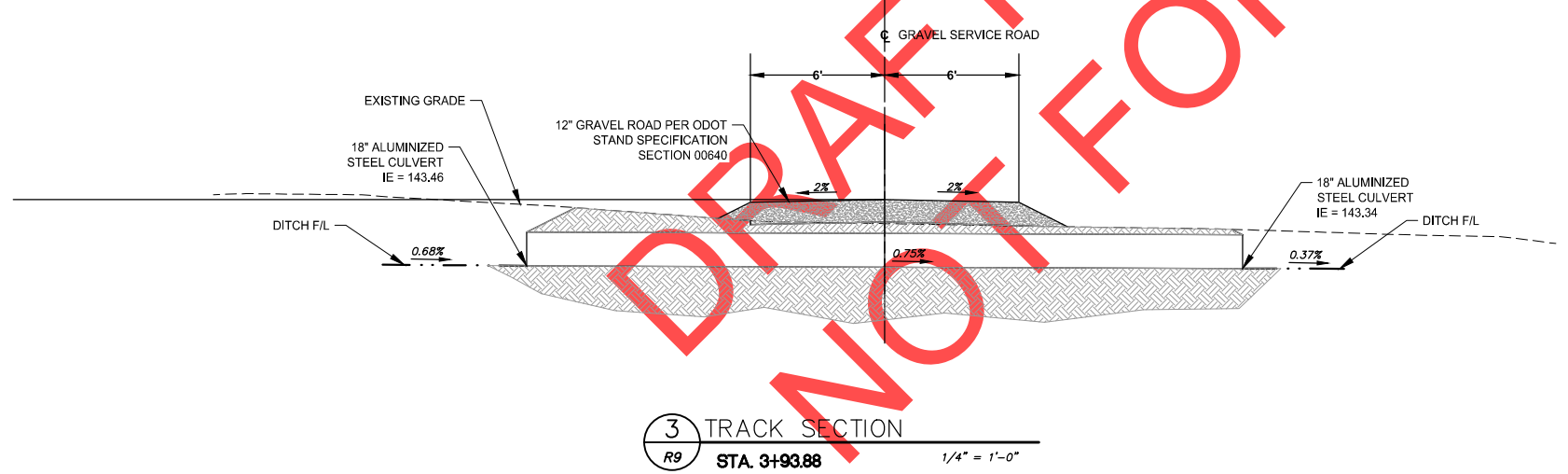
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1 REDITCHING SECTION  
R9 STA. 1192+50 1/4" = 1'-0"



2 TRACK SECTION  
R9 STA. 1194+44.97 1/4" = 1'-0"



3 TRACK SECTION  
R9 STA. 3+93.88 1/4" = 1'-0"

DRAFT REVIEW FOR CONSTRUCTION

**PRELIMINARY NOT FOR CONSTRUCTION**

**Thomas W. Wiser, P.E.**  
22760 SW Miami Oaks  
Tualatin, OR 97062  
503 / 691-6095



REGISTERED PROFESSIONAL ENGINEER  
15,442  
**PRELIMINARY**  
OREGON  
MAY 30, 1991  
THOMAS W. WISER  
EXP: 6/30/18

**SW 5TH STREET CROSSING**  
WILSONVILLE, OREGON  
**TYPICAL SECTIONS**

**PORTLAND & WESTERN RAILROAD**  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

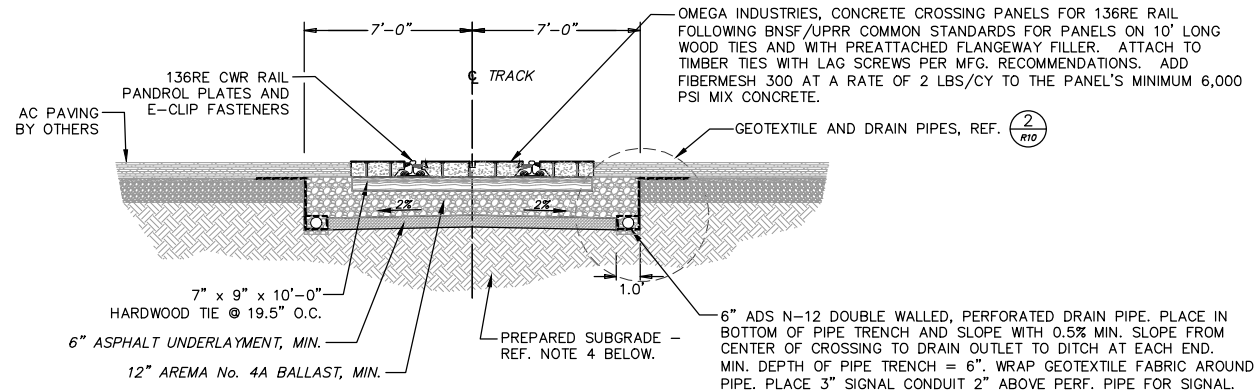


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DESIGNED BY: TWW  
JOB No: 17001  
DWG. No: R9

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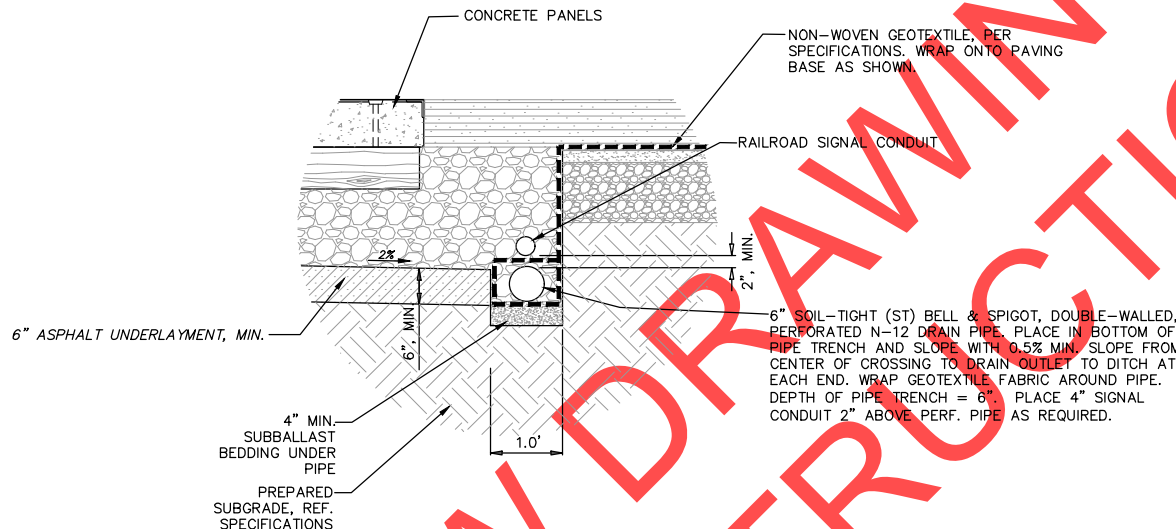




CROSSING NOTES:

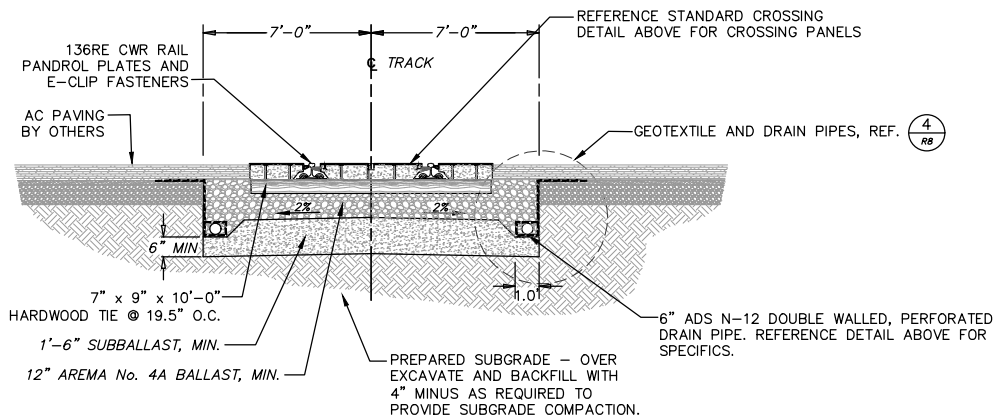
1. THE TOP OF RAIL PROFILE THROUGH THE CROSSING SHALL FOLLOW DESIGN PROFILE SHOWN ON PLAN AND PROFILE DRAWINGS.
2. THE CONTRACTOR SHALL PROTECT ALL FOUNDATIONS AND EXISTING UNDERGROUND UTILITIES FROM DAMAGE BY EXCAVATION ACTIVITIES.
3. CONTRACTOR TO NOTIFY THE ENGINEER FOR INSPECTION OF CROSSING SUBGRADE. CONTRACTOR SHALL NOT COVER UP THE SUBGRADE UNTIL AFTER INSPECTION BY ENGINEER.
4. IF ALL OR PART OF THE SUBGRADE YIELDS UNDER PROOFROLL OR IS DETERMINED TO BE UNSTABLE, CONTRACTOR SHALL OVEREXCAVATE, PLACE, AND COMPACT 1-1/4" SUBBALLAST BACKFILL MATERIAL AS DIRECTED BY THE ENGINEER. BALLAST REMOVED DURING SITE EXCAVATION MAY BE SUITABLE AS DETERMINED BY THE ENGINEER.
5. FOLLOWING TAMPING, CONSOLIDATE THE BALLAST SHOULDERS AND CRIB WITH A VIBRATOR SHOULDER COMPACTOR MEETING ONE OF THE MODELS LISTED: JACKSON JORDAN 3100 COMPACTOR; TAMPER CSC CRIB AND SHOULDER CONSOLIDATION; TAMPER CSC II CRIB AND SHOULDER CONSOLIDATION; PLASSER BALLAST COMPACTOR PBL 800. FILL CRIBS WITH ADDITIONAL BALLAST AFTER COMPACTION.
6. ENSURE FLAT BEARING SURFACE PRIOR TO SETTING PANELS. FIELD VERIFY, WITH PNWR REPRESENTATIVE PRESENT AND USING A STRAIGHT EDGE THAT SPANS A MINIMUM OF 4 TIES, THAT ALL TIES ARE LEVEL BEFORE PLACING PANELS.
7. ADZE ANY HIGH OR TWISTED TIES TO INSURE FLAT BEARING SURFACE.
8. GIVE PANEL "ROCKING" TEST BY STANDING ON ONE CORNER AND TRYING TO CAUSE MOVEMENT WITH BODY WEIGHT.
9. NEVER "SHIM" PANELS WITH PADS TO ATTEMPT TO RESOLVE ANY ROCKING PANELS. VERIFY THAT ALL TIES ARE LEVEL.
10. IF ONE PANEL IS SLIGHTLY WARPED, CAUSING IT TO ROCK, REMOVE IT FROM THE ROADWAY SURFACE AND PLACE IT IN THE SIDEWALK OR OUTSIDE OF THE ROADWAY.
11. PRE-DRILL PILOT HOLES (3/8" OR 1/2") FOR LAG SCREWS IN PRESENCE OF PNWR REPRESENTATIVE. ANY TIES THAT HAVE HAD SCREWS SET BY DRIVING WITH A HAMMER THEN DRIVEN WITH IMPACT DRIVER WILL BE REMOVED FROM THE CROSSING AND REPLACED.
12. PROVIDE PANELS SUITABLE FOR THE TRACK'S DEGREE OF CURVATURE. CUSTOM CURVED PANELS ARE REQUIRED FOR CURVES 3' AND OVER ON STANDARD BNSF/UP PANELS AND 2' FOR HEAVY DUTY BNSF/UP PANELS. SQUARE PANELS UTILIZED FOR CURVES LESS THAN INDICATED SHALL MATCH ON THE INSIDE OF THE CURVE FOR EACH PANEL.

1 TYPICAL CROSSING SECTION  
 RB 1/4" = 1'-0"



2 SECTION - TYPICAL DRAINAGE TRENCH  
 R10 NTS

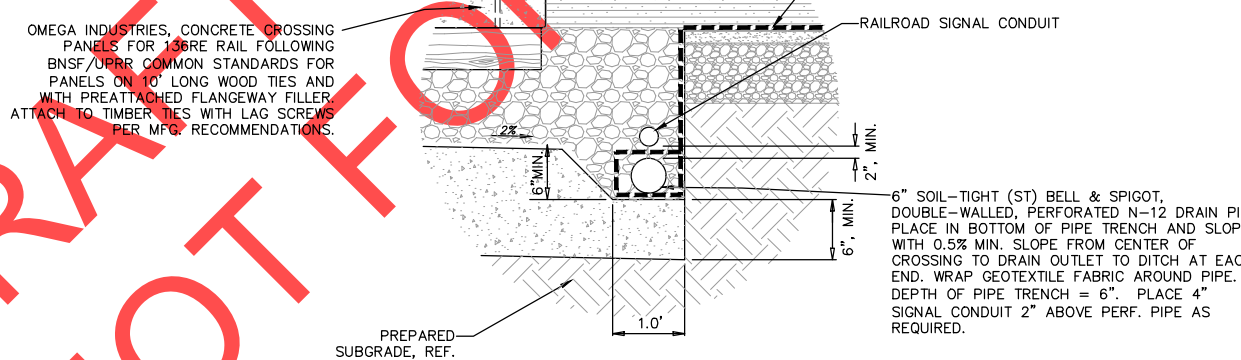
WET WEATHER CONDITIONS, ONLY



CROSSING NOTES:

1. THE USE OF THE ALTERNATE WET WEATHER CONDITION SECTIONS IS SUBJECT TO THE APPROVAL OF THE PNWR V.P. ENGINEERING AND SHALL NOT BE USED WITHOUT THE EXPRESS CONSENT OF THE RAILROAD.
2. REFERENCE STANDARD CROSSING SECTION FOR REMAINDER OF CROSSING NOTES.

3 ALTERNATE CROSSING SECTION  
 R10 WET WEATHER CONDITIONS 1/4" = 1'-0"



4 SECTION - ALTERNATE DRAINAGE TRENCH  
 R10 WET WEATHER CONDITIONS NTS

Thomas W. Wisser, P.E.  
 22760 SW Miami Drive  
 Tualatin, OR 97062  
 503 / 681-6095



SW 5TH STREET CROSSING  
 WILSONVILLE, OREGON  
 TRACK SECTIONS

PORTLAND & WESTERN RAILROAD  
 650 HAWTHORNE AVE., SE  
 SALEM, OR 97301  
 (503) 365-7717



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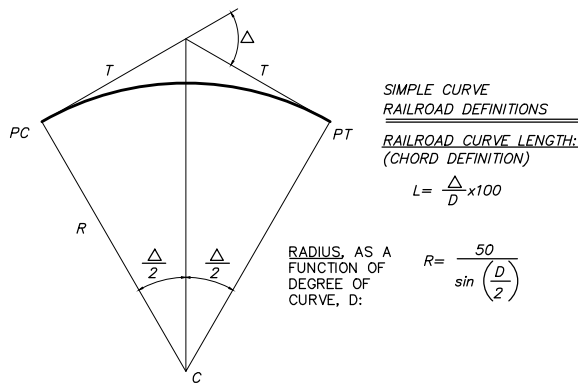
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 DESIGNED BY: TWW 1/30/19  
 JOB No: 17001  
 DWS. NO. REV.

R10 OF

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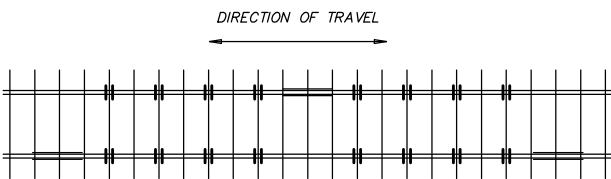
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Jan 31, 2019 - 10:02pm jwwce: D:\WIRE Files\Project\17001 PNWR 5th St Wilsonville.dwg 17001D PNWR 5th St Wilsonville - 25 Jan 2019.dwg



NOTE: THE PLAN CURVE GEOMETRY IS BASED UPON THIS DIAGRAM. THE STATIONING ON THE PLAN IS BASED UPON THE ACTUAL LENGTH OF ARC. THE TANGENTS, P.C.'S, AND P.T.'S ARE TO BE LAYED OUT ACCORDING TO THE COORDINATES AND STATIONING SHOWN ON THE PLANS, AND THE CURVE ACCORDING TO THE CURVE GEOMETRY GIVEN IN THE PLAN CURVE DATA BLOCK AND THE DEFINITIONS GIVEN IN THIS DETAIL.

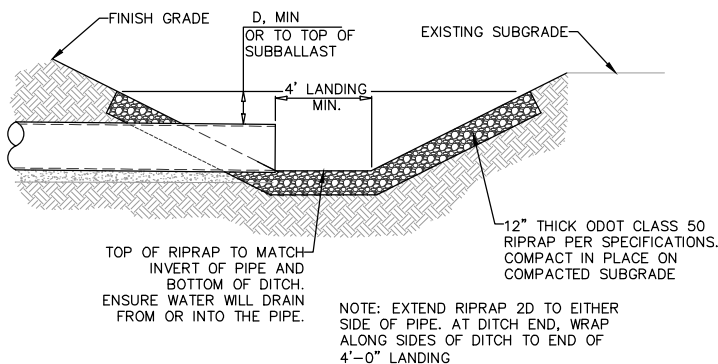
**1 CURVE GEOMETRY**  
 R11 N.T.S.



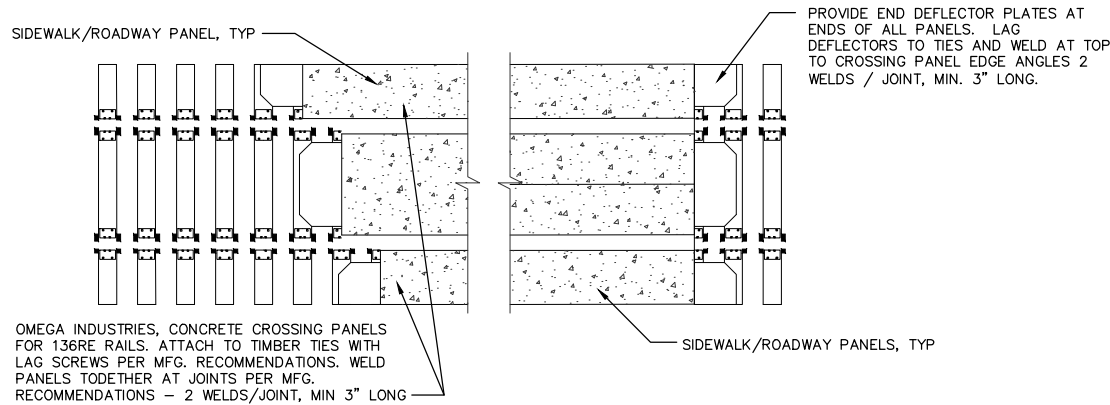
- ANCHOR NOTES:**
- FOR TRACK CARRYING TRAFFIC IN BOTH DIRECTIONS USE 8 PAIRS OF ANCHORS (16 ANCHORS) PER RAIL PER 39 FT. TRACK LENGTH.
  - 8 ANCHORS SHALL BE PLACED TO RESIST MOVEMENT IN EACH DIRECTION.
  - AT-GRADE CROSSINGS: BOX ANCHOR ON EVERY TIE FOR 130 TIES EACH DIRECTION FROM THE CROSSING. DO NOT ANCHOR THROUGH THE CROSSING.

- CWR ANCHOR NOTES:**
- CWR SHALL BE BOX ANCHORED ON EVERY OTHER TIE THROUGHOUT THE ENTIRE SECTION OF CWR.
  - BOLTED JOINTS: BOX ANCHOR FOR 130 TIES AT EACH END OF CWR.
  - TURNOUTS: BOX ANCHOR ON EVERY TIE FOR 130 TIES EACH DIRECTION FROM TURNOUT. BOX ANCHOR EVERY TIE WITHIN THE TURNOUT, WHERE ANCHORS CAN BE APPLIED, ON BOTH THE STRAIGHT AND DIVERGING SIDE OF THE TURNOUT.
  - AT-GRADE CROSSINGS: BOX ANCHOR ON EVERY TIE FOR 130 TIES EACH DIRECTION FROM THE CROSSING. DO NOT ANCHOR THROUGH THE CROSSING.

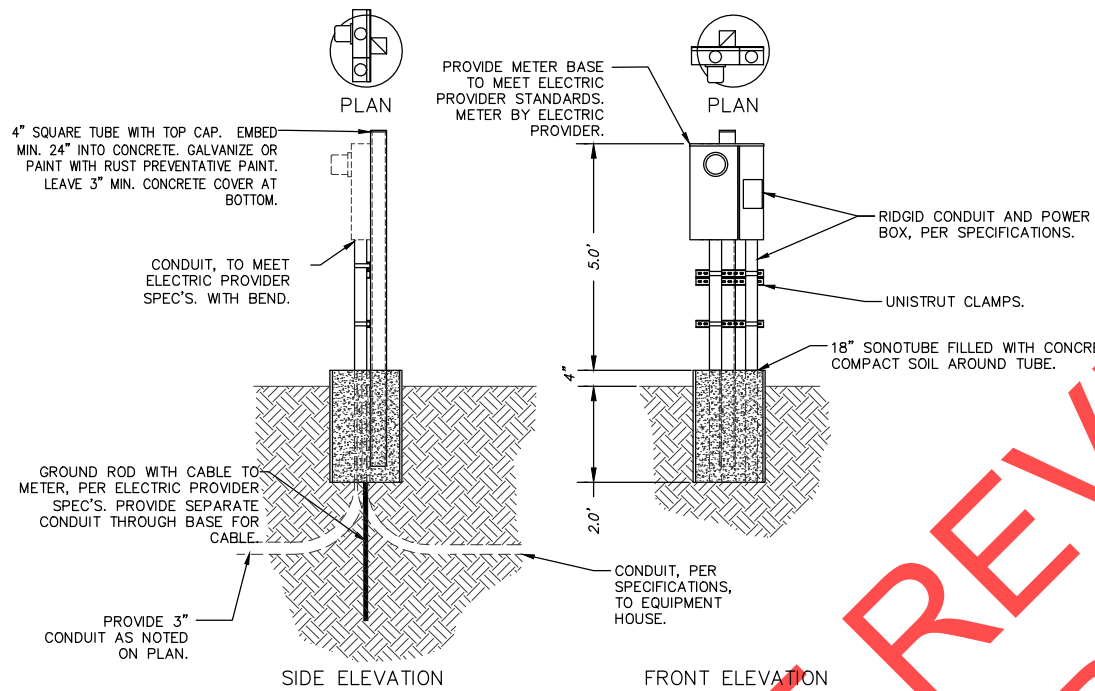
**4 ANCHOR PATTERN - TIMBER TIES**  
 R11 N.T.S.



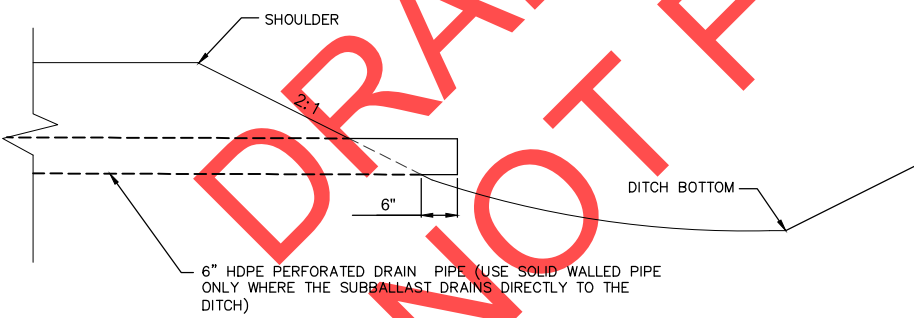
**7 CULVERT OUTFALL RIPRAP PAD DETAIL**  
 R11 TYPICAL SECTION N.T.S.



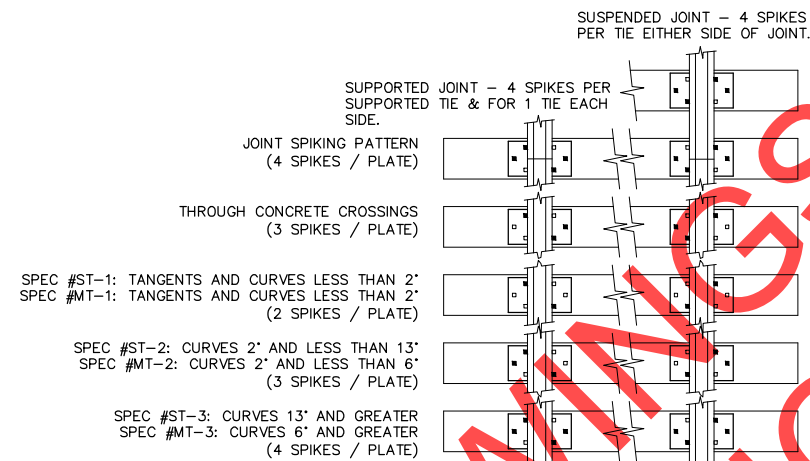
**2 TYP. CROSSING PANEL DETAIL**  
 R11 1/4" = 1'-0"



**5 POWER SUPPLY**  
 R11 N.T.S.

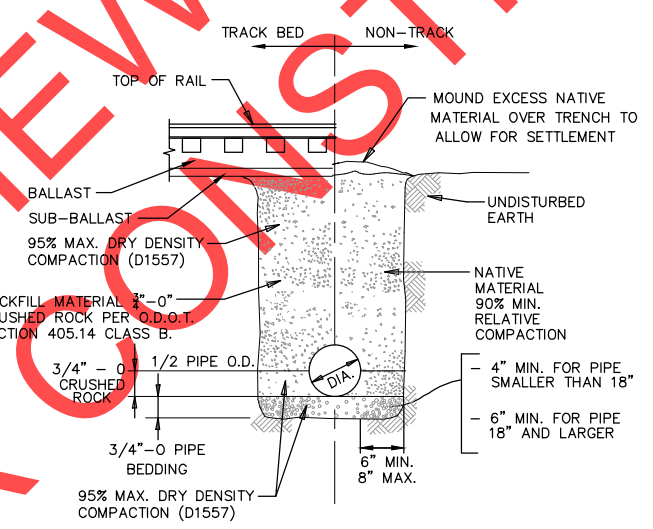


**8 PERFORATED DRAIN OUTFALL**  
 R11 TYPICAL SECTION N.T.S.

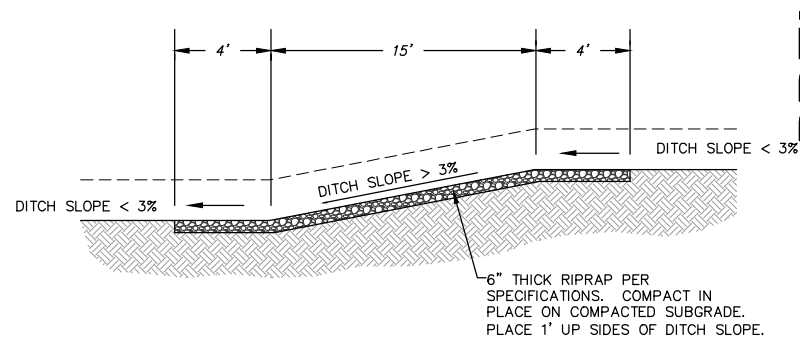


- NOTES**
- ALL SPIKING PATTERNS SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF GWRR STANDARD ES8050.1
  - SPIKE 15 TIES AHEAD OF POINT OF SWITCH: SPIKING PATTERN ST-2 ON YARD TRACKS; SPIKING PATTERN MT-2 ON ALL OTHER TRACKS.
  - SPIKING PATTERN ON OPEN DECK BRIDGES: SPEC #MT-2 ON CURVES 2' AND LESS; SPEC #MT-3 ON CURVES 2' AND OVER.
  - SPIKING PATTERN IN TURNOUTS: SPEC #MT-1 TANGENT; SPEC #MT-2 CURVE.
  - SPIKING PATTERN IN ROAD CROSSINGS AT GRADE: SPEC #MT-1 WITH ADDITIONAL GAGE SIDE HOLDING SPIKE
  - ADD ADDITIONAL SPIKES AS NEEDED TO SATISFY LOCAL CONDITIONS

**3 TYP. SPIKING PATTERNS**  
 R11 N.T.S.



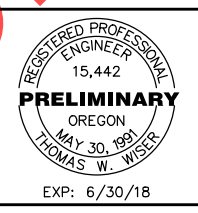
**6 PIPE BEDDING DETAIL**  
 R11 TYPICAL SECTION N.T.S.



**9 DITCH RIPRAP/GRADE TRANSITION DETAIL**  
 R11 TYPICAL SECTION N.T.S.

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Thomas W. Wisser, P.E.  
 22760 SW Miami Drive  
 Tualatin, OR 97062  
 503 / 691-6095



EXP: 6/30/18

**SW 5TH STREET CROSSING**  
 WILSONVILLE, OREGON  
**TRACK DETAILS**

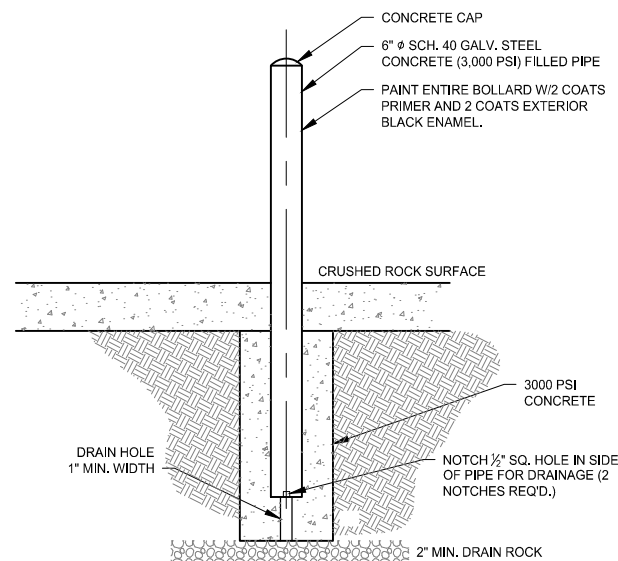
PORTLAND & WESTERN RAILROAD  
 650 HAWTHORNE AVE., SE  
 SALEM, OR 97301  
 (503) 365-7717



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 JOB No: 17001  
 DWG. No: R11

Jan 30, 2019 - 12:04pm jwmsc D:\WIRE Files\Project\17001 PNWR 5th St Wilsonville.dwg\7001D PNWR 5th St Wilsonville.dwg\7001D PNWR 5th St Wilsonville - 25 Jan 2019.dwg



NOTE:

- BOLLARDS SHALL BE CONSTRUCTED PER ODOT STANDARD SPECIFICATION 00815 EXCEPT AS INDICATED IN THIS SECTION.

**1 BOLLARD DETAIL**  
R12 N.T.S.



12" X 9" SIGN (GENESEE & WYOMING STANDARD EMERGENCY NOTIFICATION SIGN). MOUNT ON EACH SIGNAL MAST OR PEDESTRIAN POST FACING DIRECTION OF TRAFFIC. SIGN TO BE 0.063 THICK ALUMINUM. USE 3M ENGINEER GRADE REFLECTIVE SHEETING WITH COLORS AS SHOWN AND WITH CLEAR PROTECTIVE OVERLAY FILM. LYLE SIGNS TO PREPRINT DOT # ON SIGNS. PROVIDE ONLY FROM LYLE SIGNS, INC., 6294 BURY DRIVE, EDEN PRAIRIE, MN 55346 (800) 248-5953 x106. VERIFY DOT NUMBERS WITH ODOT RAIL ORDER BEFORE SIGN MANUFACTURE.

U.S. DOT NO. LIST:

- WEST 5TH STREET - NO. XX
- EAST 5TH STREET - NO. XX

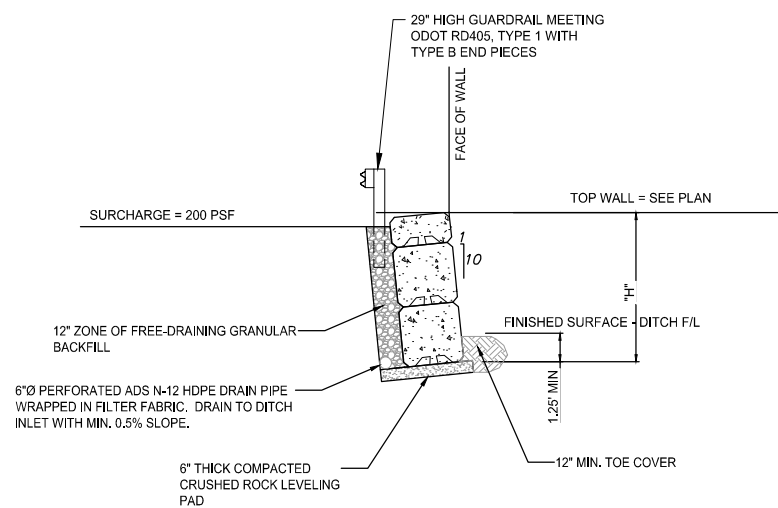
**2 EMERGENCY NOTIFICATION SIGN DETAIL**  
R12 N.T.S.



6" DIA. CIRCLE

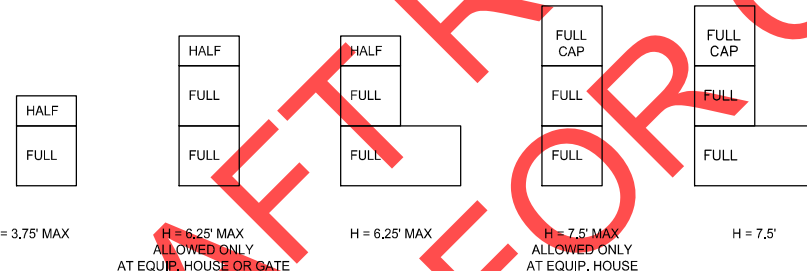
MOUNT ON SQUARE TUBE WITH CONCRETE FOOTING PER ODOT DET 4241 AND STANDARD SPECIFICATION SECTION 00930, WITHOUT THE BREAKAWAY FEATURE. SIGN TO BE ALUMINUM MEETING ODOT STANDARD SPECIFICATION SECTION 00940. USE COLORS AS SHOWN.

**3 NO TRESPASSING SIGN DETAIL**  
R12 N.T.S.



**4 DITCH WALL DETAIL**  
R12 N.T.S.

BLOCK TYPE AND DIMENSION TABLE		
NOTE	TYPE	DIMENSIONS
	HALF	1.25' H x 2.5' W x 5.0' L
	FULL	2.5' H x 2.5' W x 5.0' L
	FULL CAP	2.5' H x 2.5' W x 5.0' L



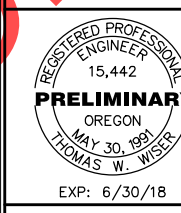
NOTE: WALL BATTER IS NOT SHOWN ON THIS DETAIL.

**5 WALL ASSEMBLY DETAIL**  
R12 N.T.S.

**RETAINING WALL NOTES**

- WALL BLOCKS SHALL BE MANUFACTURED BY ULTRABLOCK, INC.
- BLOCKS SHALL BE THE DIMENSIONS SHOWN IN THE TABLE, AND SHALL HAVE A MINIMUM AVERAGE DENSITY OF 145 POUNDS PER CUBIC FOOT.
- FOR A GIVEN WALL HEIGHT "H", ARRANGE BLOCKS AS SHOWN ON THE WALL ASSEMBLY DETAIL. ALL WALL SECTIONS SHALL BE BATTERED 1 HORIZONTAL TO 10 VERTICAL.
- A BACKFILL SOIL FRICTION ANGLE OF 30 DEGREES WAS ASSUMED FOR DESIGN (SAND/GRAVEL MIXTURE).
- A CONCRETE TO LEVELLING PAD COEFFICIENT OF FRICTION OF 0.4 WAS ASSUMED FOR DESIGN.
- AN ALLOWABLE BEARING PRESSURE OF 2000 PSF WAS ASSUMED FOR DESIGN.
- A SURCHARGE OF 200 PSF WAS ASSUMED BEHIND THE WALL, EXCEPT AT EQUIPMENT HOUSE LOCATIONS.
- MINIMUM FACTORS OF SAFETY ARE 2.0 FOR OVERTURNING AND 1.5 FOR SLIDING.

Thomas W. Wisser, P.E.  
22760 SW Miami Drive  
Tualatin, OR 97062  
503 / 691-6095



SW 5TH STREET CROSSING  
WILSONVILLE, OREGON  
TRACK DETAILS

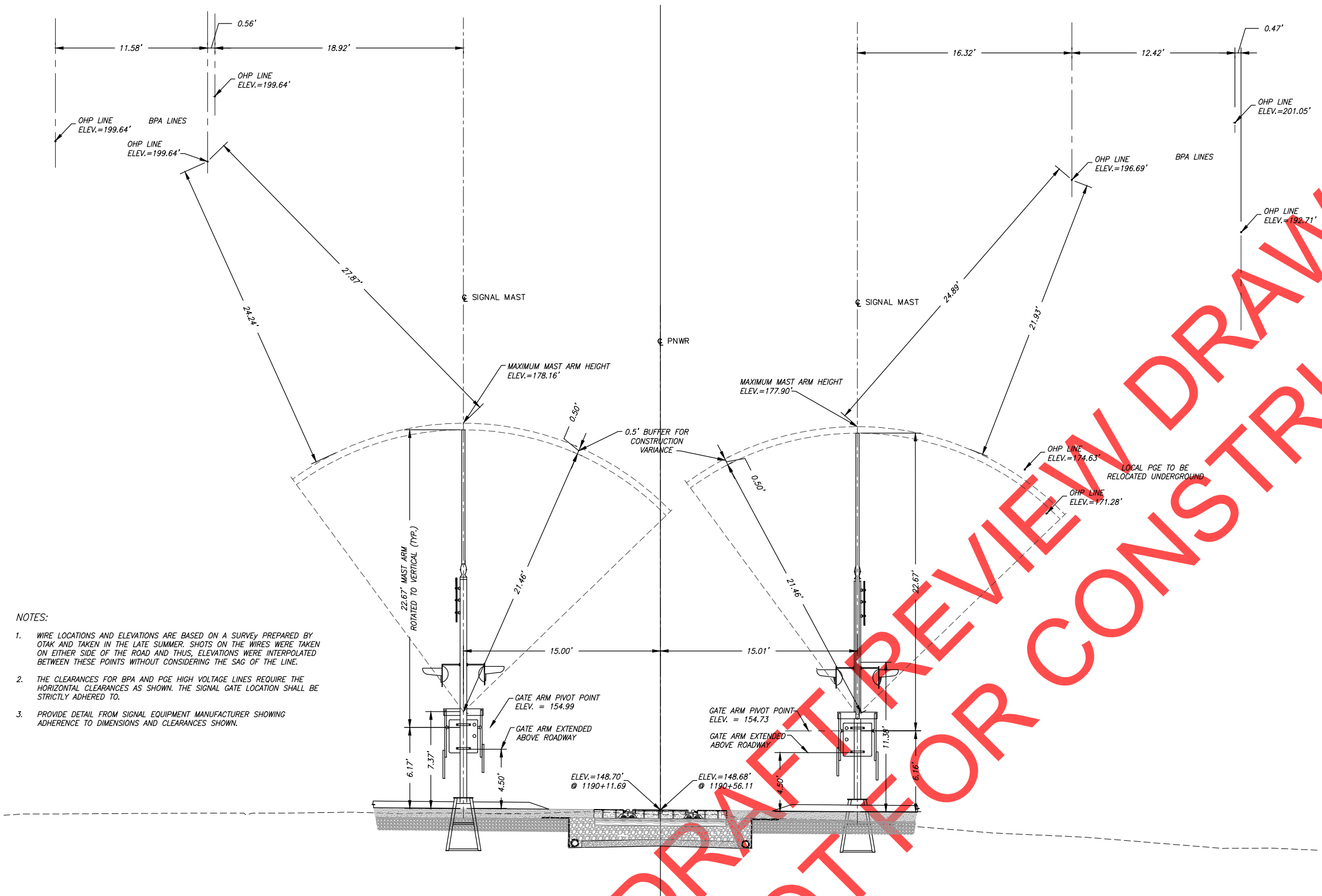
PORTLAND & WESTERN RAILROAD  
650 HAWTHORNE AVE., SE  
SALEM, OR 97301  
(503) 365-7717

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DWG. NO. R12

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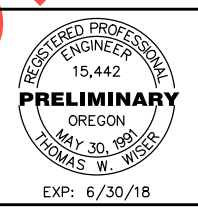


- NOTES:
1. WIRE LOCATIONS AND ELEVATIONS ARE BASED ON A SURVEY PREPARED BY OTAK AND TAKEN IN THE LATE SUMMER. SHOTS ON THE WIRES WERE TAKEN ON EITHER SIDE OF THE ROAD AND THUS, ELEVATIONS WERE INTERPOLATED BETWEEN THESE POINTS WITHOUT CONSIDERING THE SAG OF THE LINE.
  2. THE CLEARANCES FOR BPA AND PGE HIGH VOLTAGE LINES REQUIRE THE HORIZONTAL CLEARANCES AS SHOWN. THE SIGNAL GATE LOCATION SHALL BE STRICTLY ADHERED TO.
  3. PROVIDE DETAIL FROM SIGNAL EQUIPMENT MANUFACTURER SHOWING ADHERENCE TO DIMENSIONS AND CLEARANCES SHOWN.

1 SECTION AT CROSSING GATES - LOOKING SOUTH  
 R13 1190+11.69 LT., 1190+56.11 RT. 1/4" = 1'-0"

DRAFT FOR CONSTRUCTION  
 NOT FOR CONSTRUCTION

Thomas W. Wisner, P.E.  
 22760 SW Miami Oaks  
 125040  
 503 / 691-6095



SW 5TH STREET CROSSING  
 WILSONVILLE, OREGON  
 WIRE CLEARANCE DIAGRAM

PORTLAND & WESTERN RAILROAD  
 650 HAWTHORNE AVE., SE  
 SALEM, OR 97301  
 (503) 365-7717



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