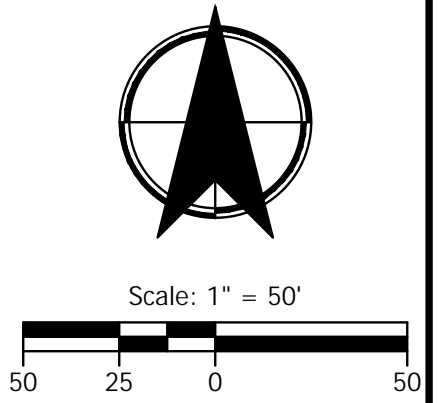
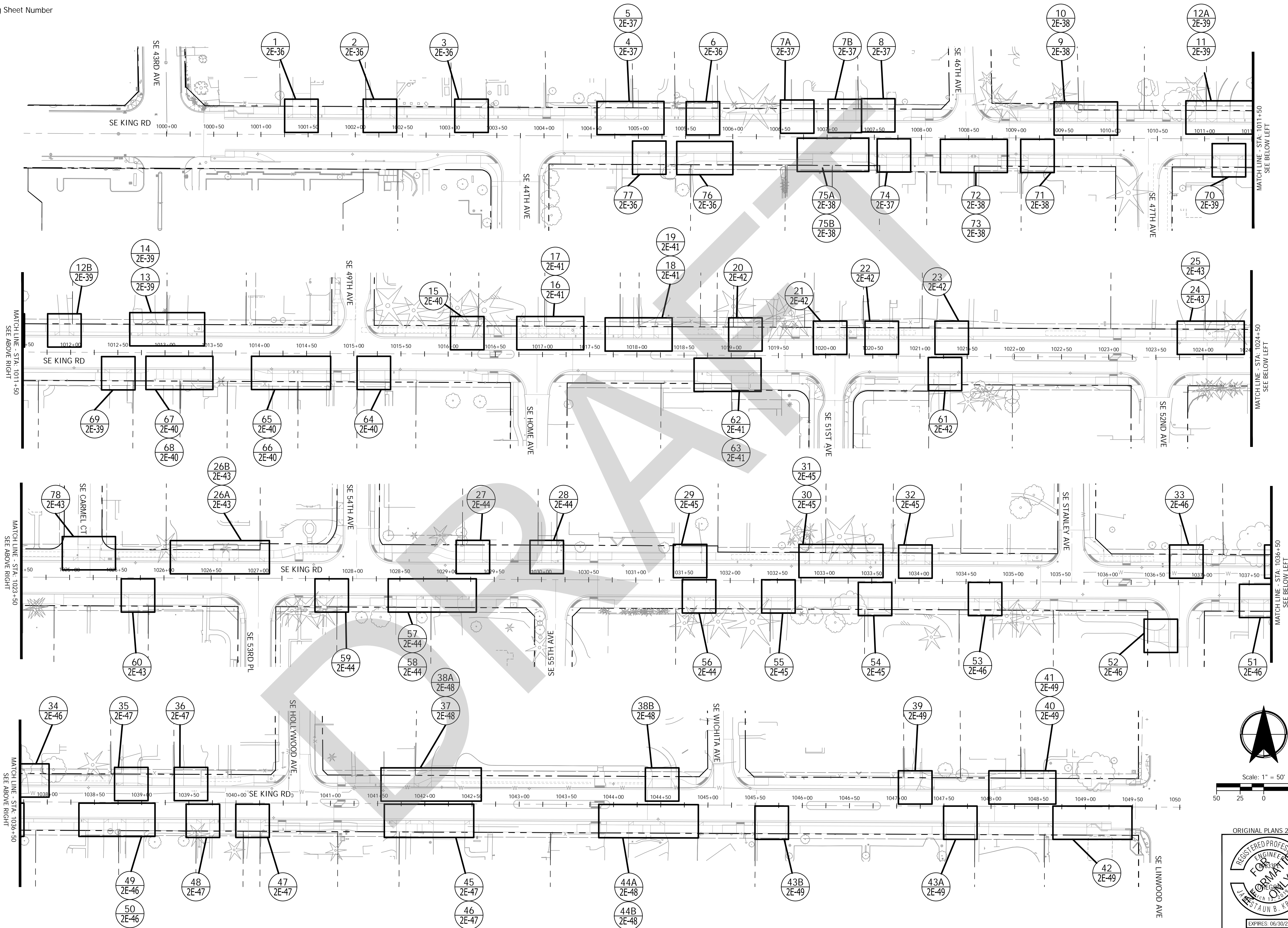


X  
XX-XX Driveway Number  
Detailed Grading Sheet Number

### DETAILED DRIVEWAY GRADING KEY MAP



ORIGINAL PLANS 22x34

EXPIRES: 06/30/25

CITY OF MILWAUKIE

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.275.8169

#	DATE	REVISION	APPROVED

Submission Date: November 12, 2024  
 Drawn: DPB    Designed: JDS    Checked: JBK

PROJECT NO:  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING KEY MAP

SHEET NO.  
**2E-34**

EXP: 06/30/25

Plot Stamp: 11/11/2024 4:06:31 PM - Ly Nguyen  
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Plot Stamp: 11/11/2024 4:07:03 PM - Ly Nguyen  
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King Rd Driveway Address Key		
Address	Driveway Number	Sheet Number
4325 SE King Rd	1	2E-36
4335 SE King Rd	2	2E-36
4345 SE King Rd	3	2E-36
4401 SE King Rd	4	2E-37
4423 SE King Rd	5	2E-37
4445 SE King Rd	6	2E-36
4503 SE King Rd	7A	2E-37
4503 SE King Rd	7B	2E-37
4507 SE King Rd	8	2E-37
4609 SE King Rd	9	2E-38
4645 SE King Rd	10	2E-38
4707 SE King Rd	11	2E-39
4739 SE King Rd	12A	2E-39
4739 SE King Rd	12B	2E-39
4791 SE King Rd	13	2E-39
4813 SE King Rd	14	2E-39
4985 SE King Rd	15	2E-40
4989 SE King Rd	16	2E-41
5011 SE King Rd	17	2E-41
5027 SE King Rd	18	2E-41
5053 SE King Rd	19	2E-41
5085 SE King Rd	20	2E-42
5107 SE King Rd	21	2E-42
5129 SE King Rd	22	2E-42
5197 SE King Rd	23	2E-42
5201 SE King Rd	24	2E-43
5253 SE King Rd	25	2E-43
5285 SE King Rd	26A	2E-43
5285 SE King Rd	26B	2E-43
5445 SE King Rd	27	2E-44
5447 SE King Rd	28	2E-44
5555 SE King Rd	29	2E-45
5619 SE King Rd	30	2E-45
5651 SE King Rd	31	2E-45
5653 SE King Rd	32	2E-45
5809 SE King Rd	33	2E-46
5733-55 SE King Rd	34	2E-46
5785 SE King Rd	35	2E-47
5815 SE King Rd	36	2E-47
6011 SE King Rd	37	2E-48
6031 SE King Rd	38A	2E-48
6031 SE King Rd	38B	2E-48
6127 SE King Rd	39	2E-49
6131 SE King Rd	40	2E-49
6135 SE King Rd	41	2E-49
6140 SE King Rd	42	2E-49
6100-6106, 6110, 6114, 6128 SE King Rd	43A	2E-49
6100-6106, 6110, 6114, 6128 SE King Rd	43B	2E-49

King Rd Driveway Address Key (Contd.)		
Address	Driveway Number	Sheet Number
5990 SE King Rd	44A	2E-48
5990 SE King Rd	44B	2E-48
5960 SE King Rd	45	2E-47
5884 SE King Rd	46	2E-47
5870 SE King Rd	47	2E-47
5860 SE King Rd	48	2E-47
5840 SE King Rd	49	2E-46
5820 SE King Rd	50	2E-46
5800 SE King Rd	51	2E-46
5770 SE King Rd	52	2E-46
5654 SE King Rd	53	2E-46
5650 SE King Rd	54	2E-45
5640 SE King Rd	55	2E-45
5624 SE King Rd	56	2E-44
5434 SE King Rd	57	2E-44
5412 SE King Rd	58	2E-44
5328 SE King Rd	59	2E-44
5220 SE King Rd	60	2E-43
5156 SE King Rd	61	2E-42
5084 SE King Rd	62	2E-41
5052 SE King Rd	63	2E-41
4916 SE King Rd	64	2E-40
4884 SE King Rd	65	2E-40
4862 SE King Rd	66	2E-40
4820 SE King Rd	67	2E-40
4806 SE King Rd	68	2E-40
4778 SE King Rd	69	2E-39
4706 SE King Rd	70	2E-43
4664 SE King Rd	71	2E-38
4610 SE King Rd	72	2E-38
4600 SE King Rd	73	2E-38
4572 SE King Rd	74	2E-37
4506, 4548 SE King Rd	75A	2E-38
4506, 4548 SE King Rd	75B	2E-38
4450a SE King Rd	76	2E-36
4404 SE King Rd	77	2E-36
10380 SE Carmel Ct	78	2E-43

**CITY OF MILWAUKIE**

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November 12, 2024

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PROJECT NO.  
**C2023-032**

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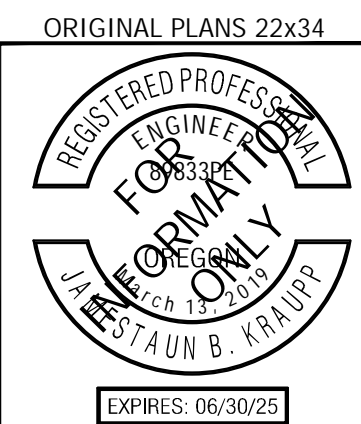
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

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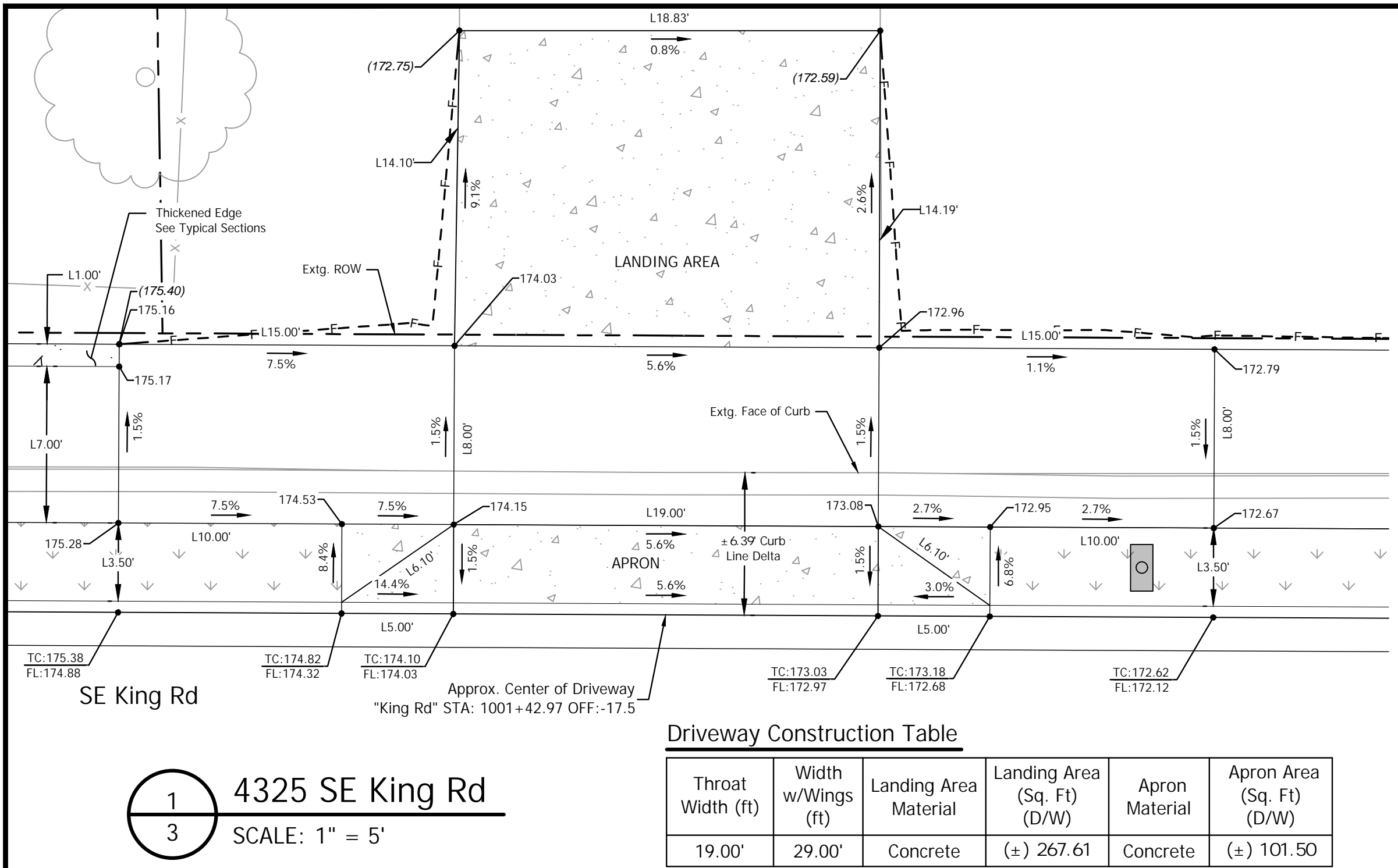
DRIVEWAY ADDRESS KEY

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SHEET NO.  
**2E-35**

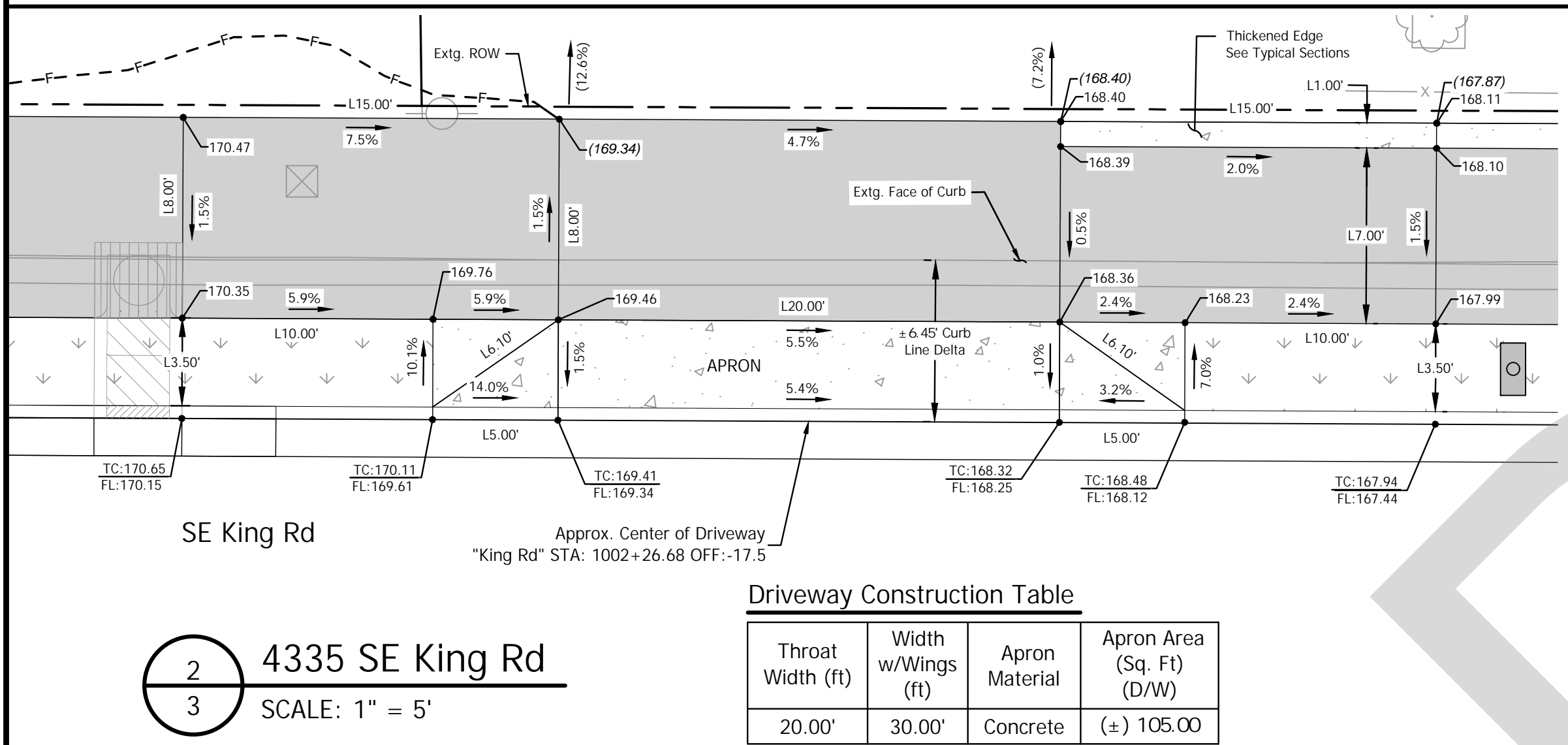


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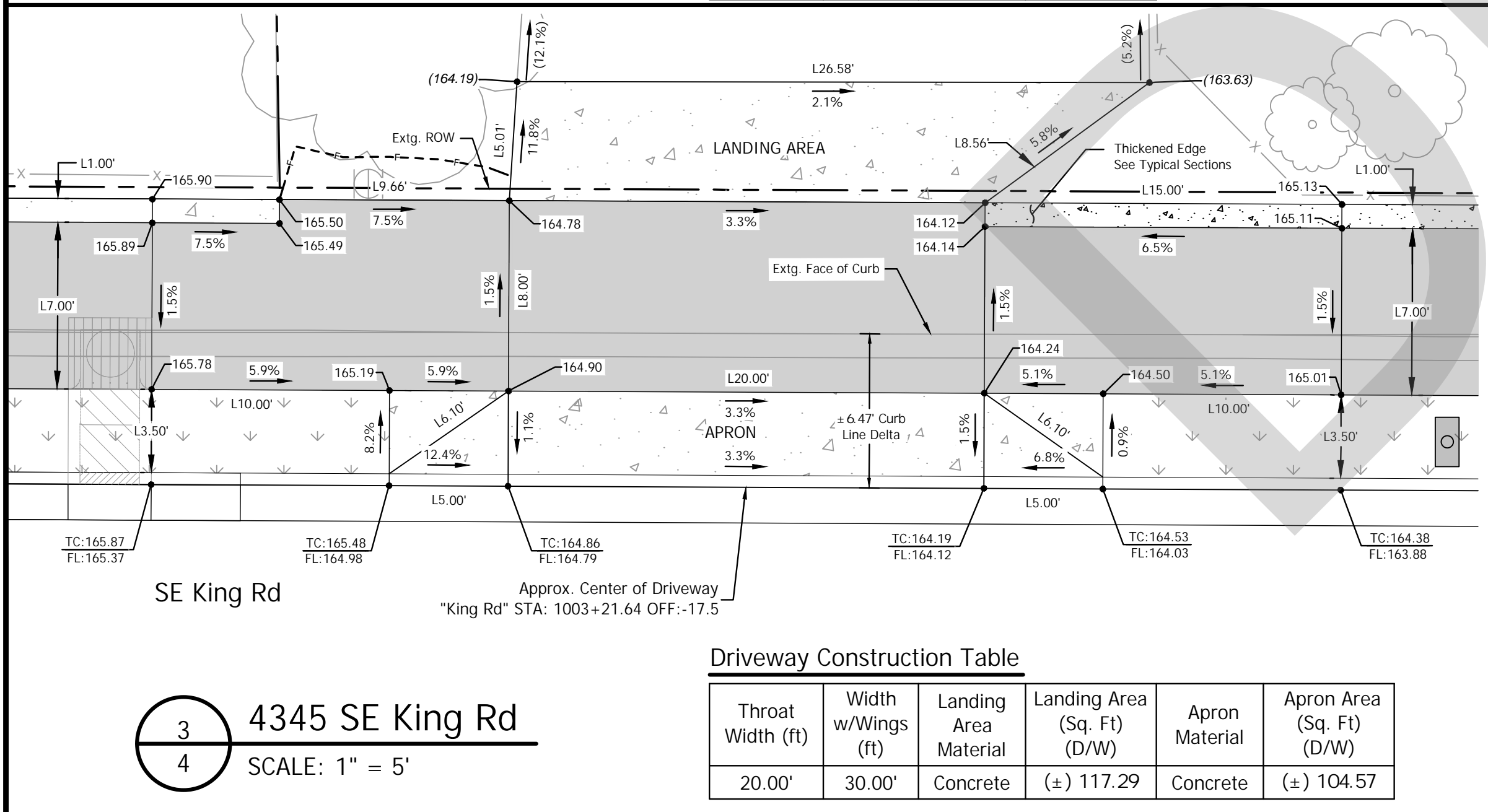
1 4325 SE King Rd  
 3 SCALE: 1" = 5'

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
19.00'	29.00'	Concrete	(±) 267.61	Concrete	(±) 101.50



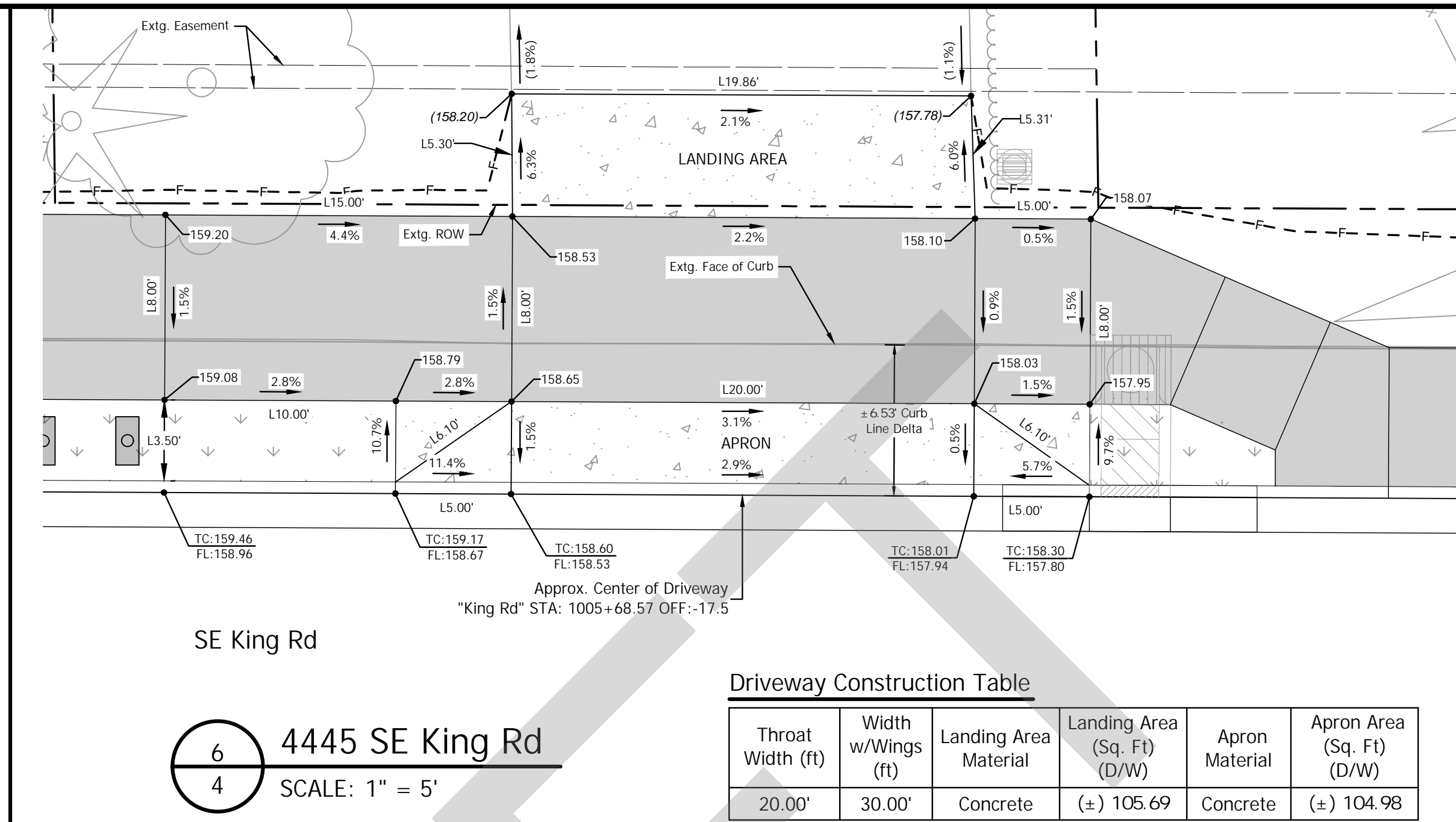
2 4335 SE King Rd  
 3 SCALE: 1" = 5'

Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
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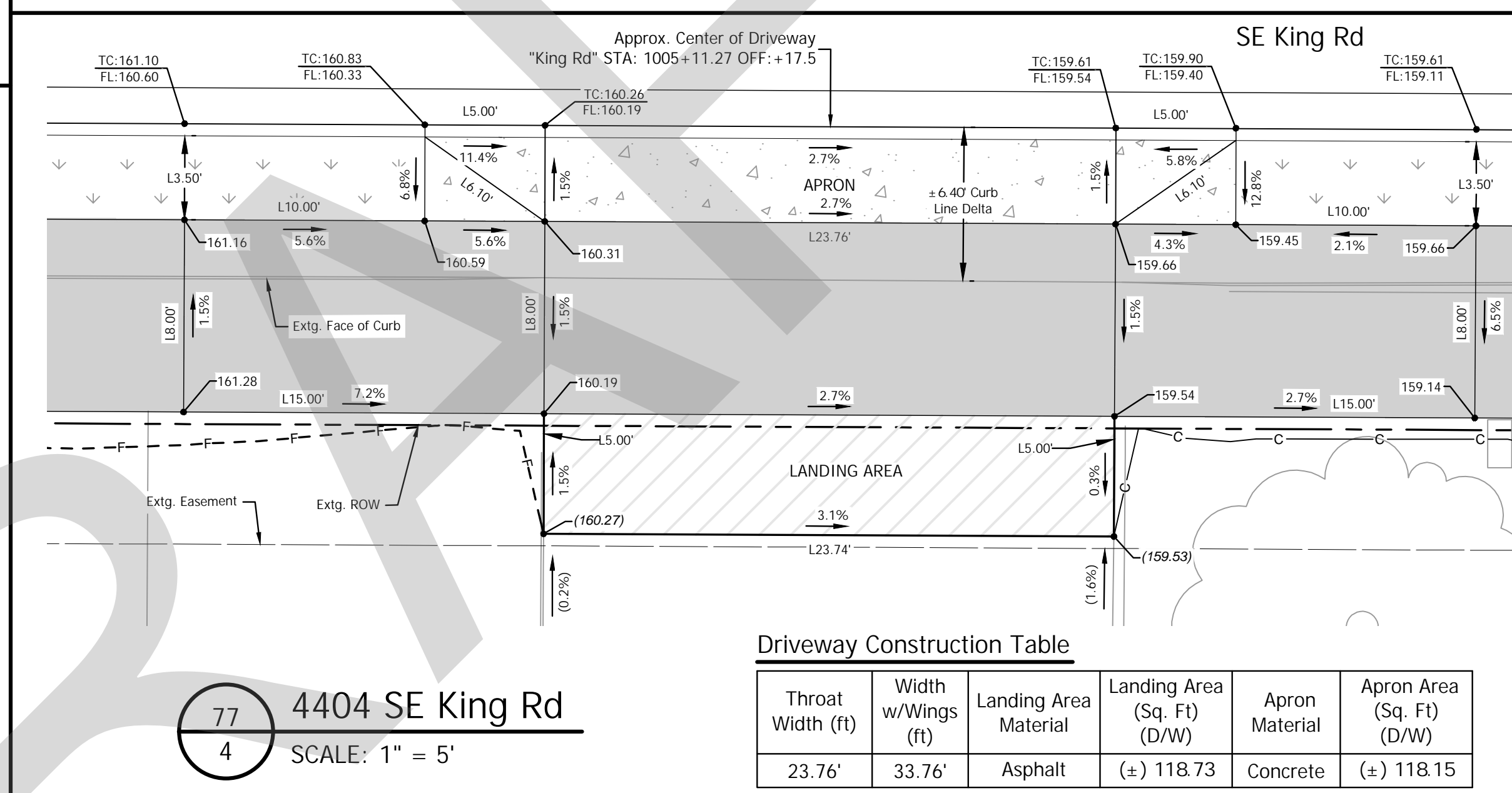
3 4345 SE King Rd  
 4 SCALE: 1" = 5'

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
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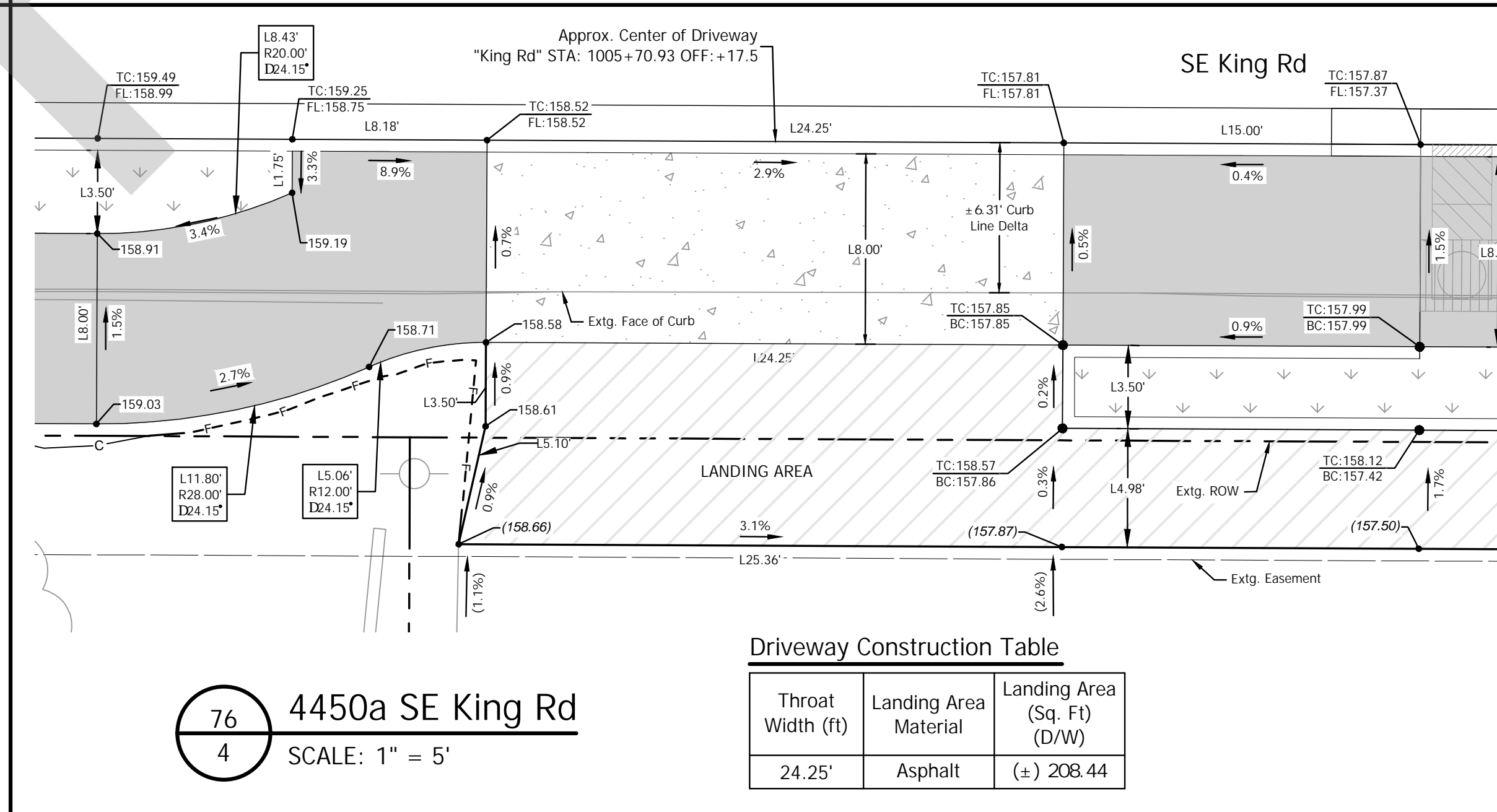
6 4445 SE King Rd  
 4 SCALE: 1" = 5'

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
20.00'	30.00'	Concrete	(±) 105.69	Concrete	(±) 104.98



77 4404 SE King Rd  
 4 SCALE: 1" = 5'

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
23.76'	33.76'	Asphalt	(±) 118.73	Concrete	(±) 118.15



76 4450a SE King Rd  
 4 SCALE: 1" = 5'

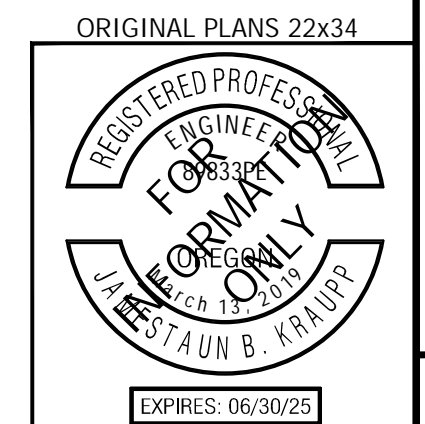
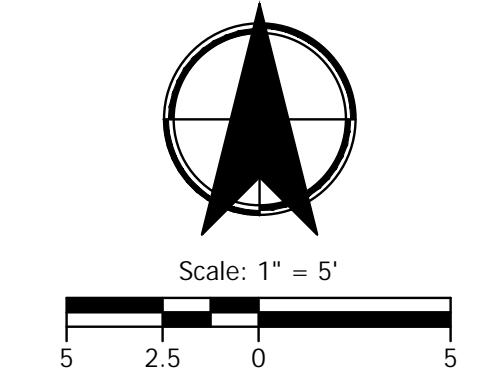
Throat Width (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
24.25'	Asphalt	(±) 208.44

### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
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- FILL LINE

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 RX.XX = RADIUS  
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DRIVEWAY #  
 STREET PLAN SHEET #



CITY OF MILWAUKIE

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#	DATE	REVISION	APP'D

Submission Date: November 12, 2024  
 Drawn: DPB    Designed: DPB    Checked: JBK

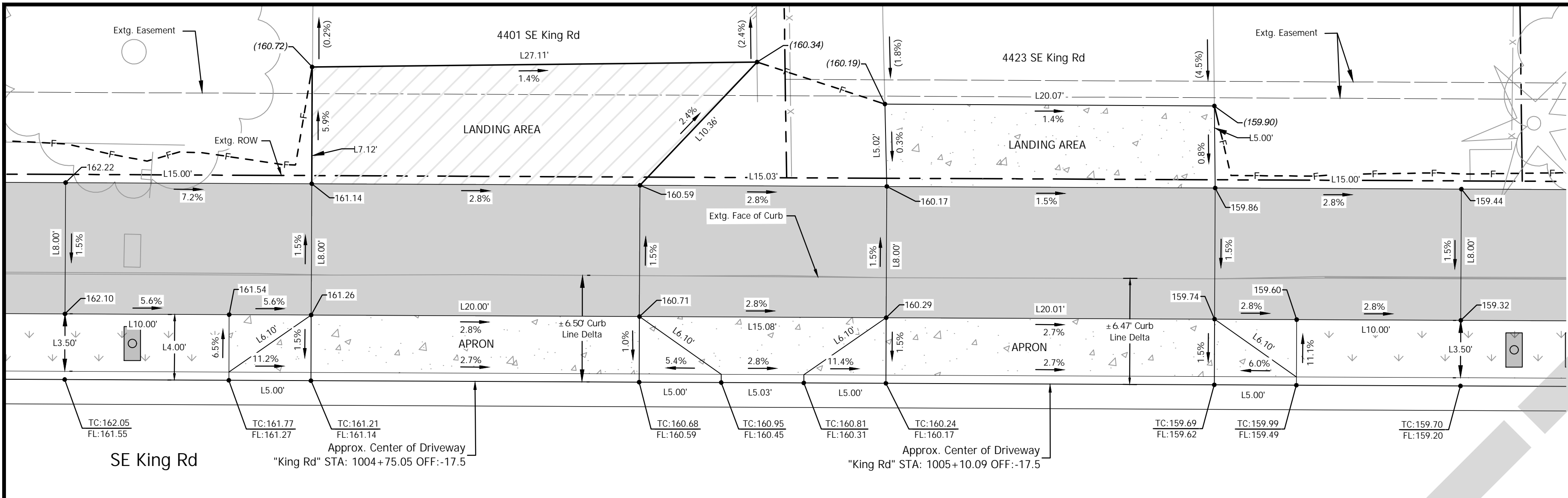
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO.  
**2E-36**

Plot Stamp: 11/12/2024 11:49:41 AM - Jamestaun Kraupp  
 File: H:\28128175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-28175.dwg



**4**  
4  
4401 SE King Rd  
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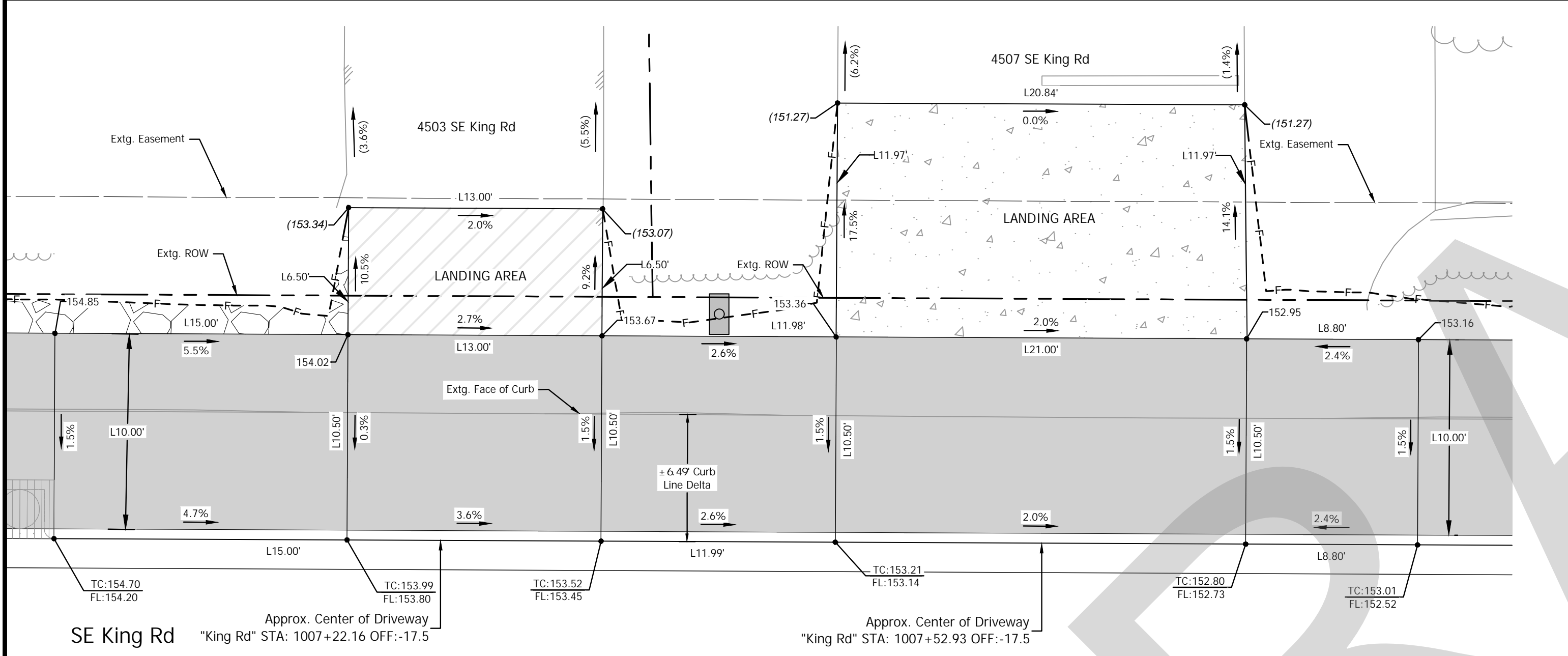
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
20.00'	30.00'	Asphalt	(±) 171.96	Concrete	(±) 113.75

**5**  
4  
4423 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
20.01'	30.01'	Concrete	(±) 100.43	Concrete	(±) 113.82



**7B**  
5  
4503 SE King Rd  
SCALE: 1" = 5'

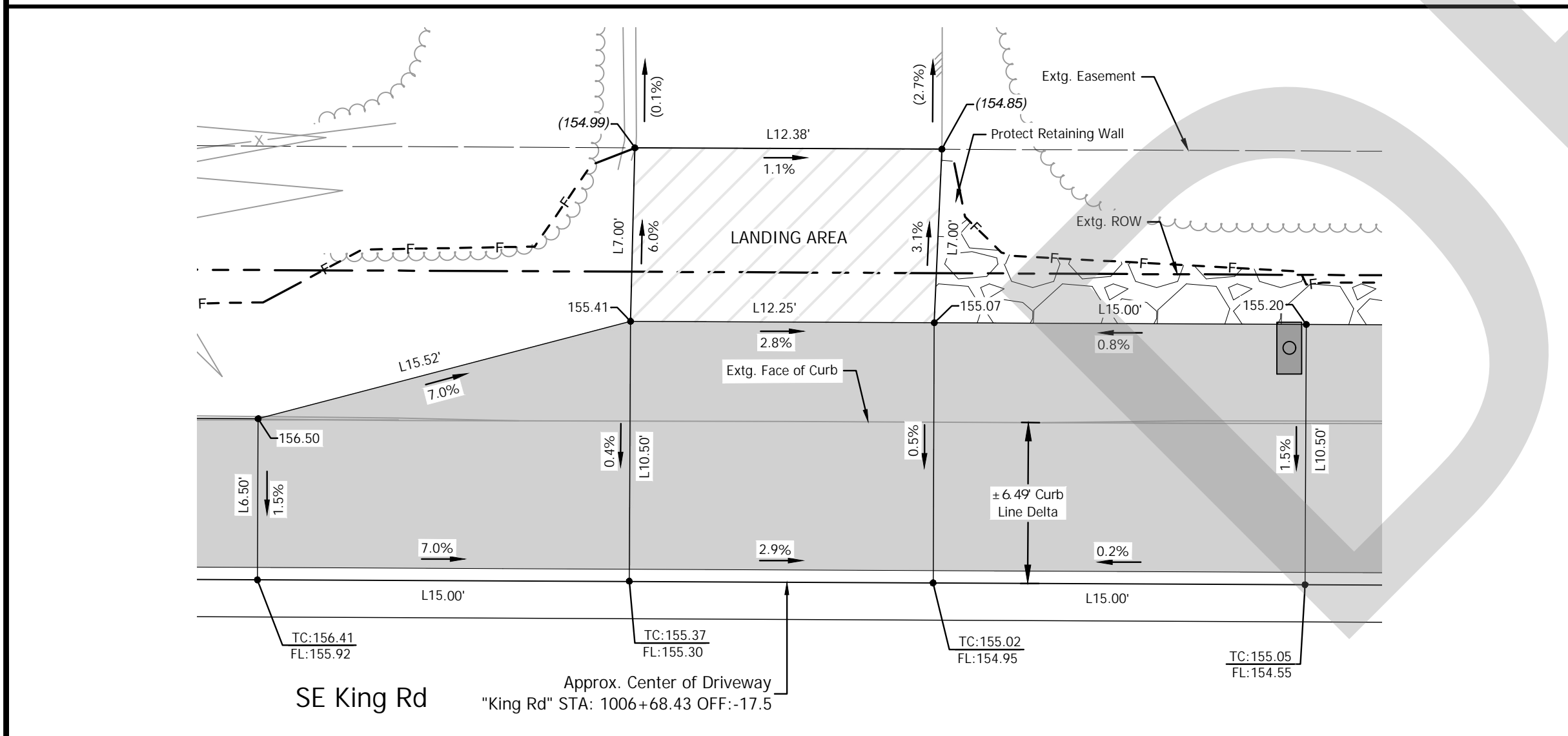
Driveway Construction Table

Throat Width (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
13.00'	Asphalt	(±) 84.48

**8**  
5  
4507 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

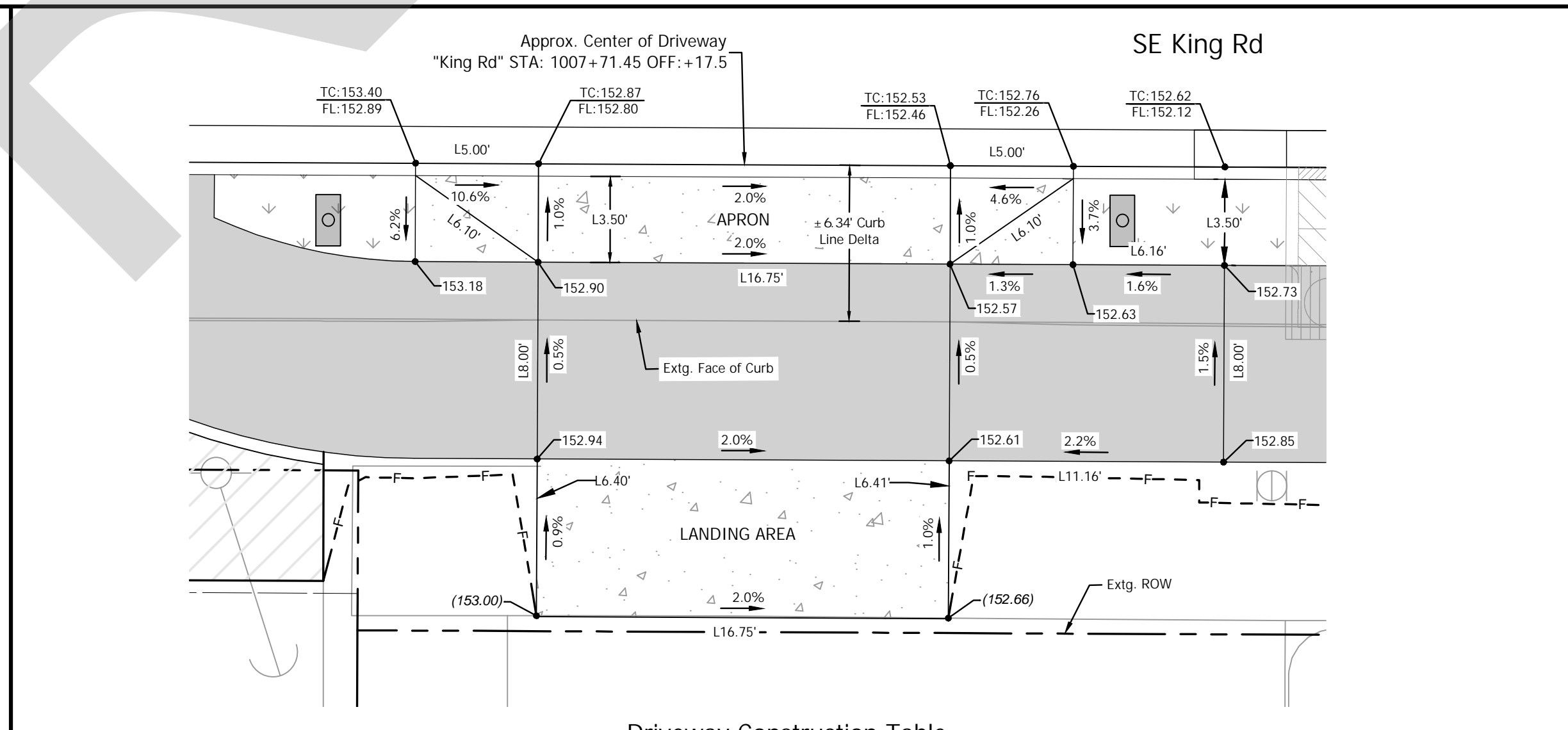
Throat Width (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
21.00'	Concrete	(±) 250.44



**7A**  
5  
4503 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
12.25'	Asphalt	(±) 86.18



**74**  
5  
4572 SE King Rd  
SCALE: 1" = 5'

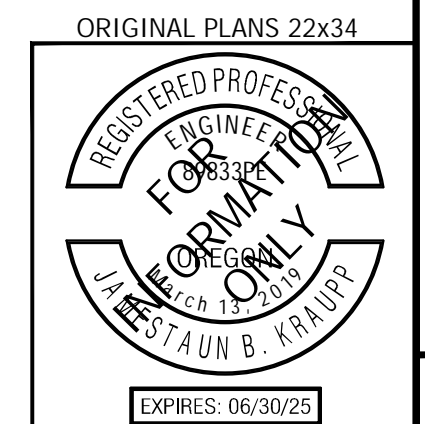
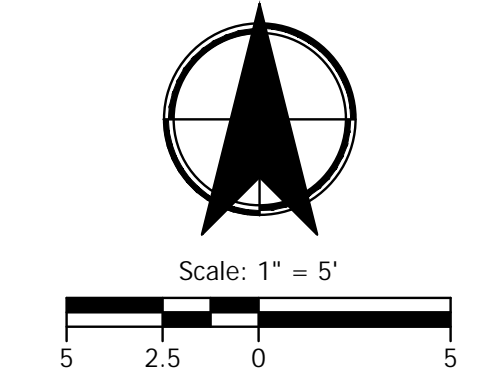
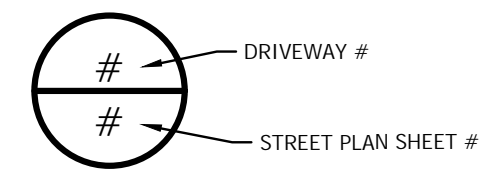
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
16.75'	26.75'	Concrete	(±) 107.37	Concrete	(±) 96.63

**LEGEND**

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
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Submission Date:  
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Drawn: DPB	Designed: DPB	Checked: JBK
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PROJECT NO.  
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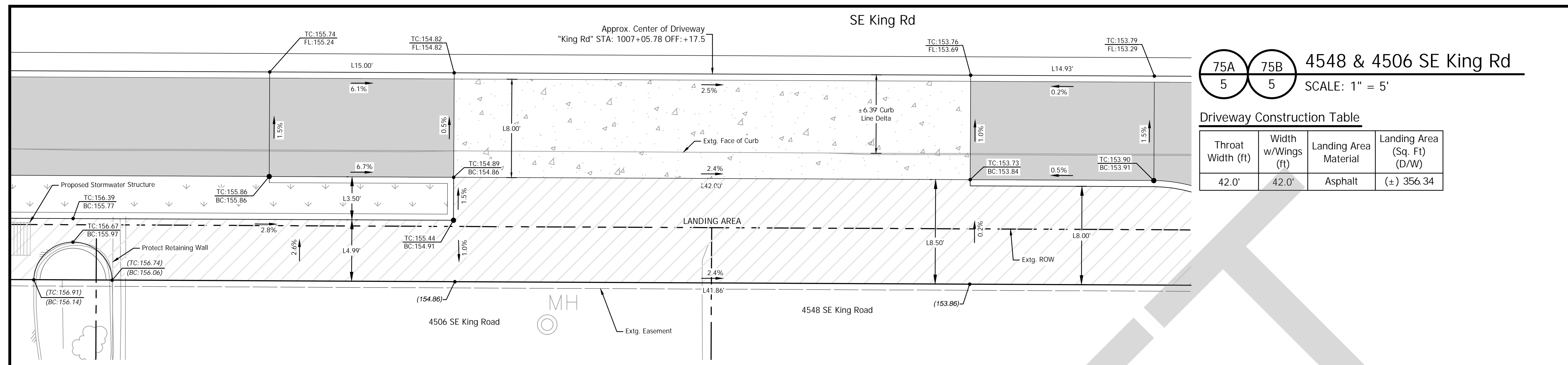
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO.  
**2E-37**

EXPIRES: 06/30/25

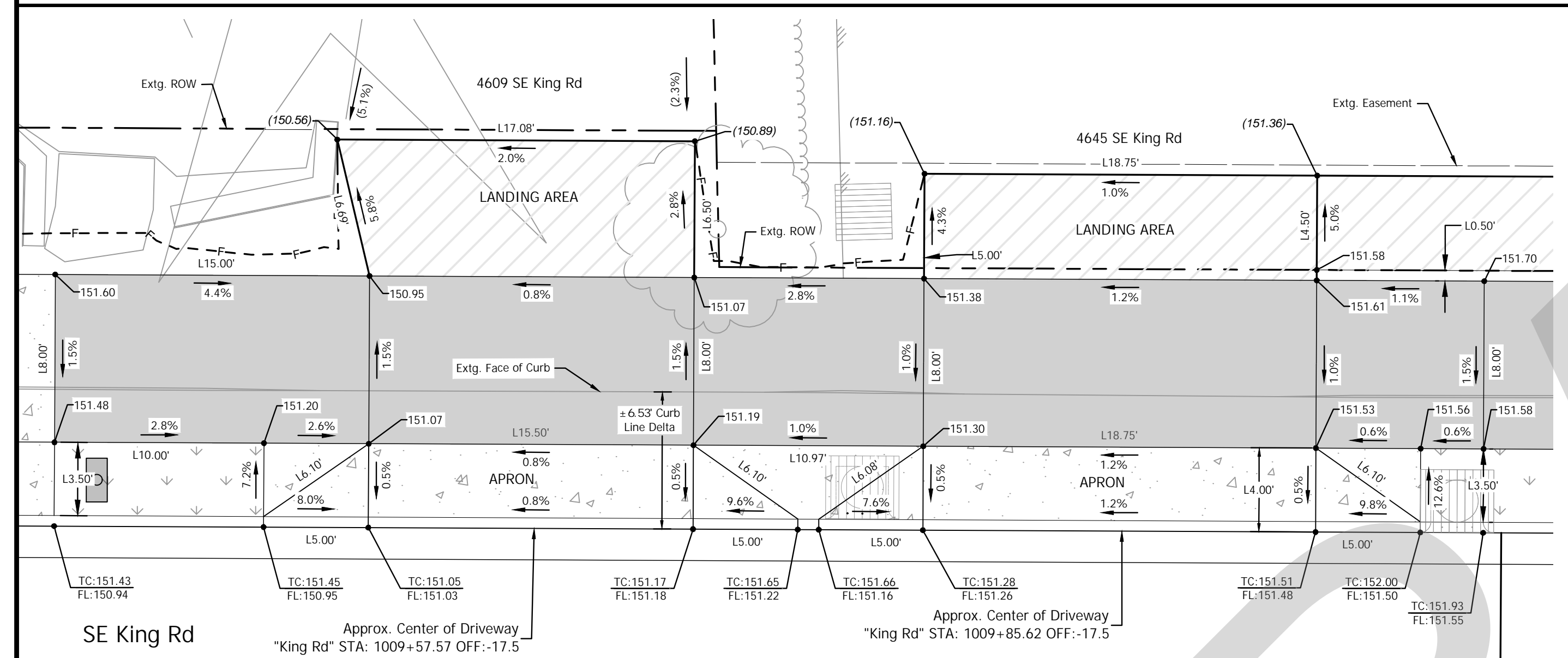
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**75A 75B**  
**5 5** 4548 & 4506 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
42.0'	42.0'	Asphalt	(±) 356.34



**9 5** 4609 SE King Rd  
 SCALE: 1" = 5'

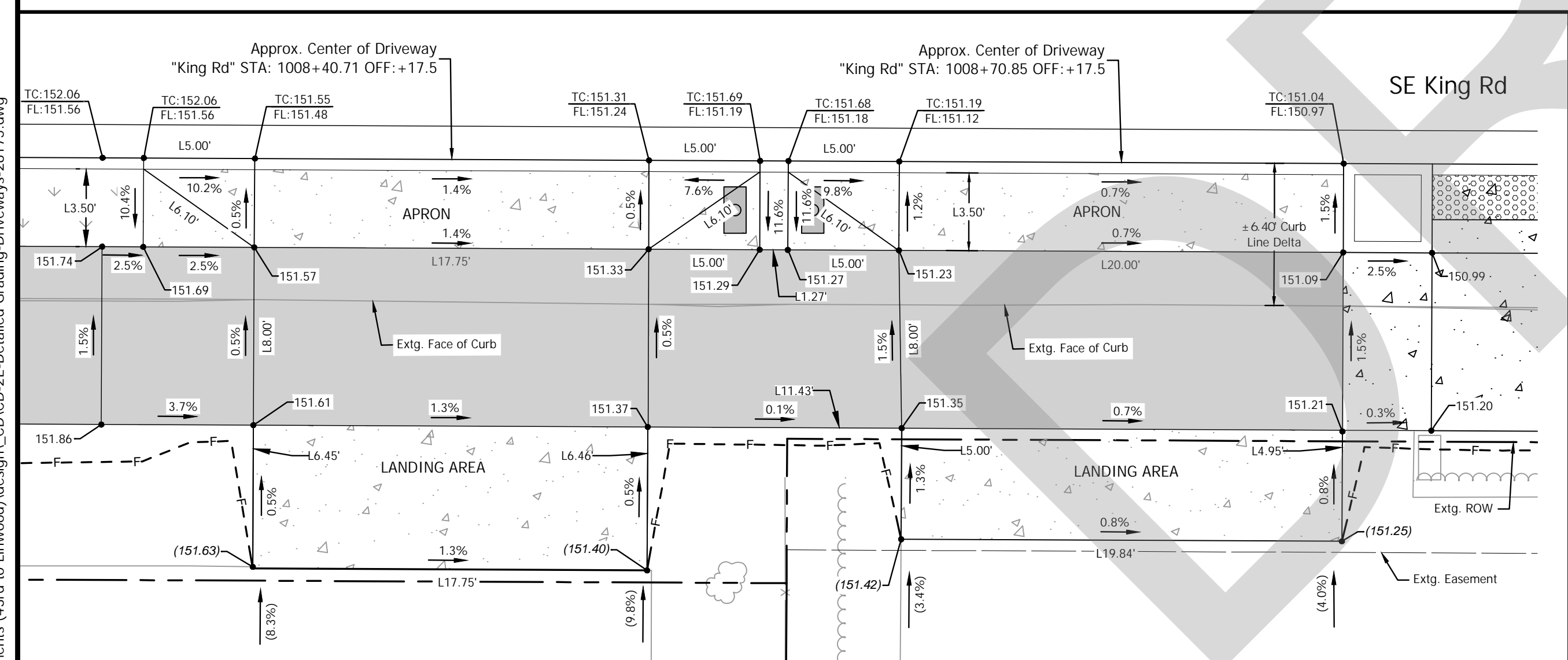
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
15.50'	25.50'	Asphalt	(±) 105.87	Concrete	(±) 89.24

**10 5** 4645 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
18.75'	28.75'	Asphalt	(±) 93.75	Concrete	(±) 104.00



**73 5** 4600 SE King Rd  
 SCALE: 1" = 5'

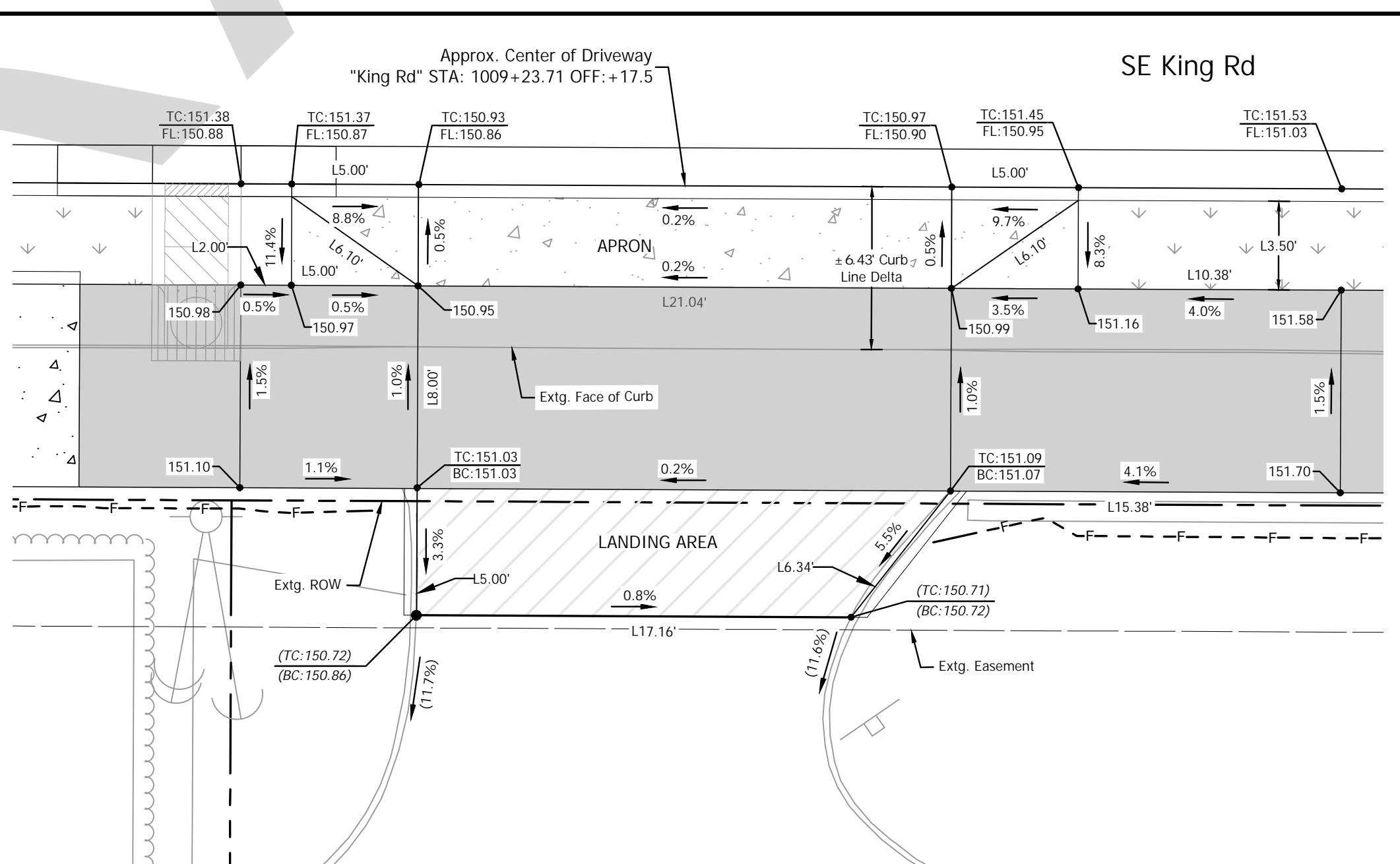
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
17.75'	27.75'	Concrete	(±) 114.52	Concrete	(±) 97.12

**72 5** 4610 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
20.0'	30.0'	Concrete	(±) 99.15	Concrete	(±) 91.94



**71 5** 4664 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

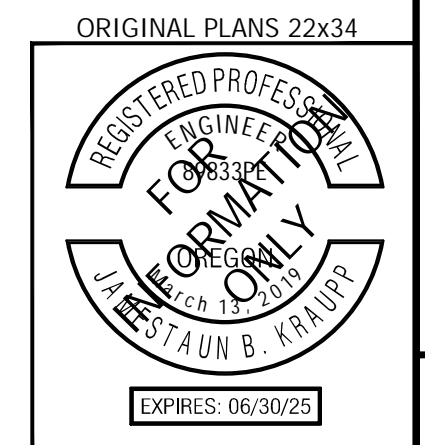
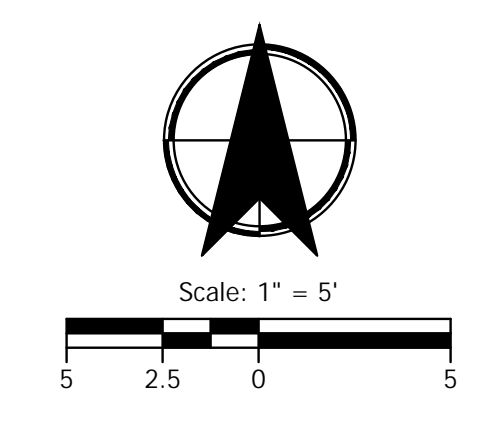
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
21.04'	31.04'	Asphalt	(±) 94.54	Concrete	(±) 108.65

### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
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DRIVEWAY #  
 STREET PLAN SHEET #



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Submission Date: November 12, 2024  
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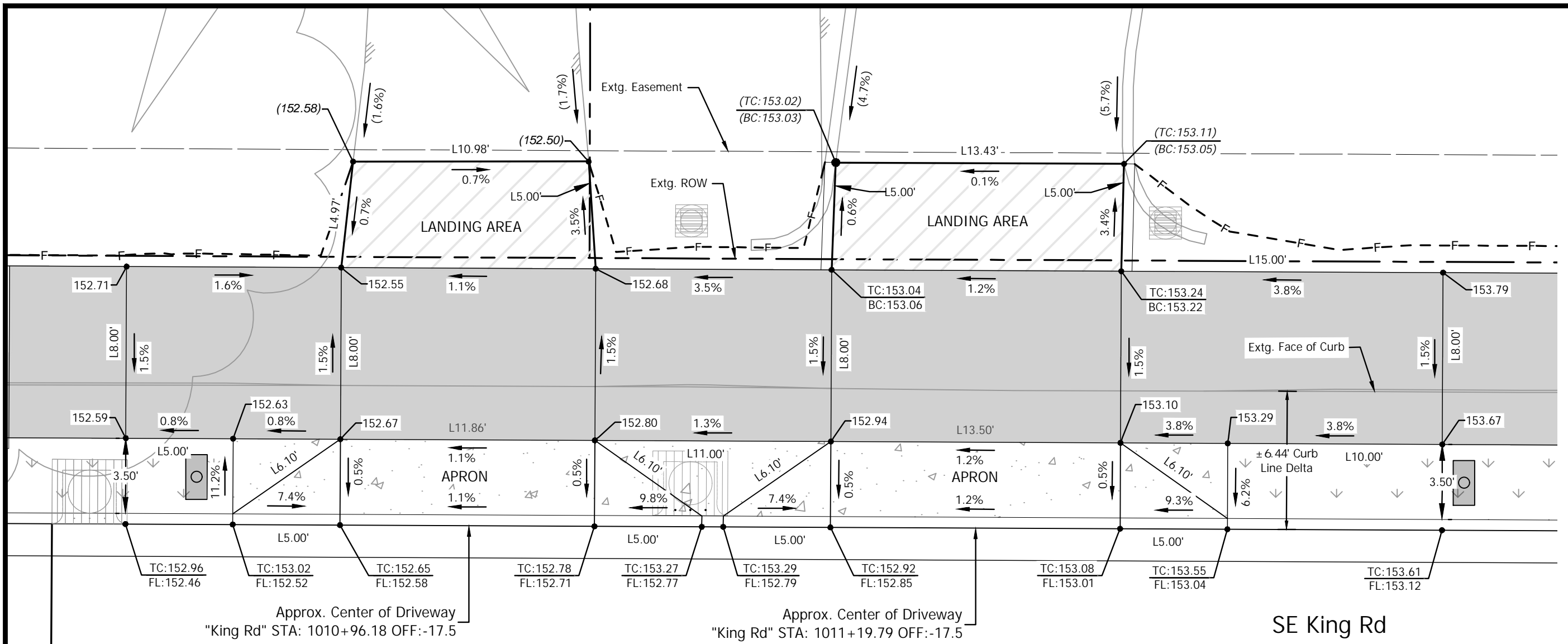
PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO. 2E-38

Plot Stamp: 11/12/2024 11:50:38 AM - Jamestaun Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-28175.dwg



**11** 4707 SE King Rd  
 6 SCALE: 1" = 5'

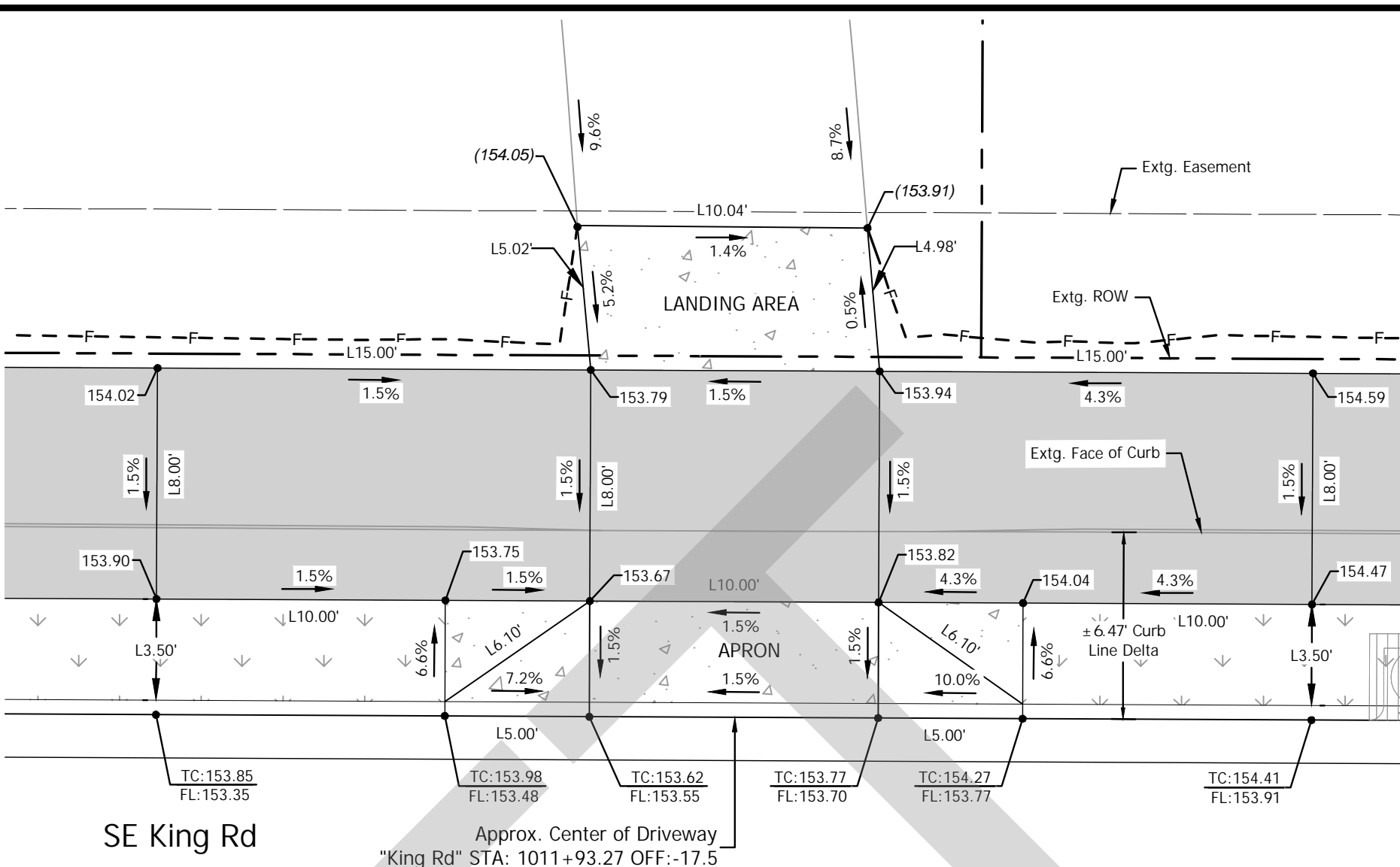
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
11.86'	21.86'	Asphalt	(±) 56.73	Concrete	(±) 76.30

**12A** 4739 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

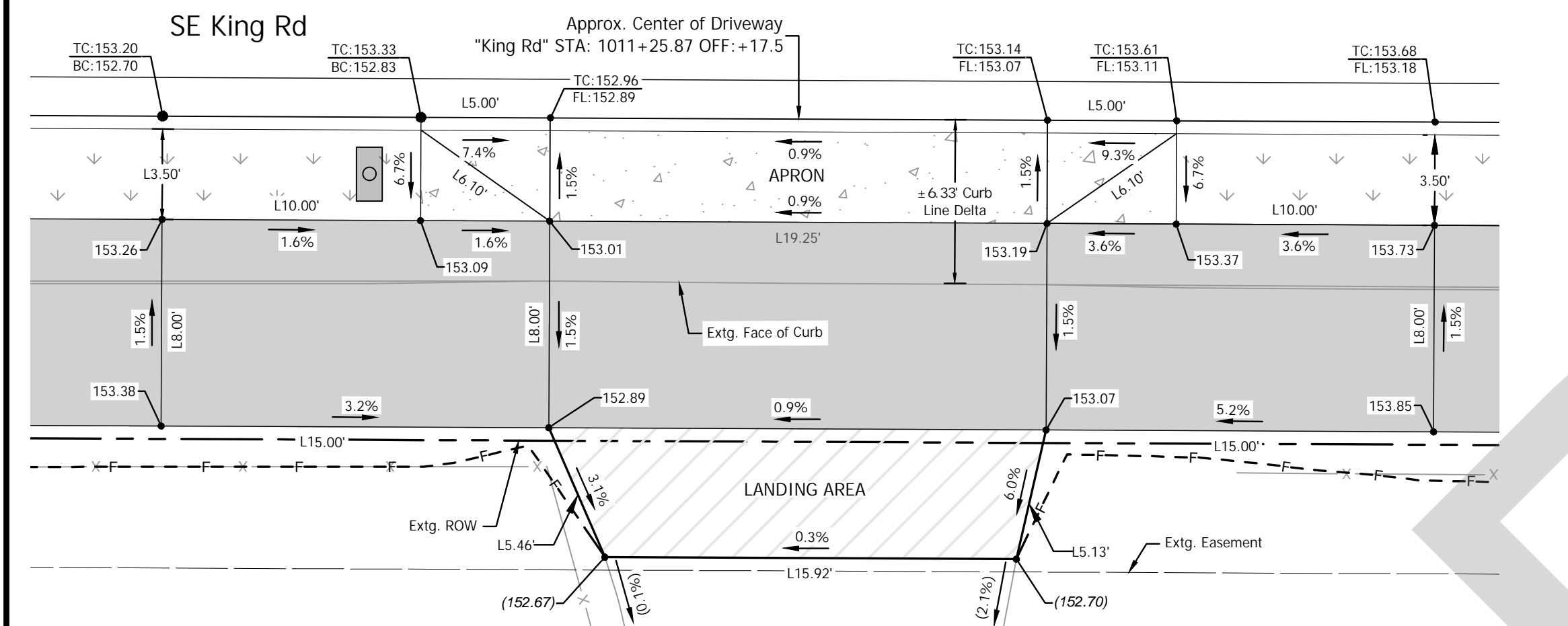
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
13.50'	23.50'	Asphalt	(±) 67.40	Concrete	(±) 85.93



**12B** 4739 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

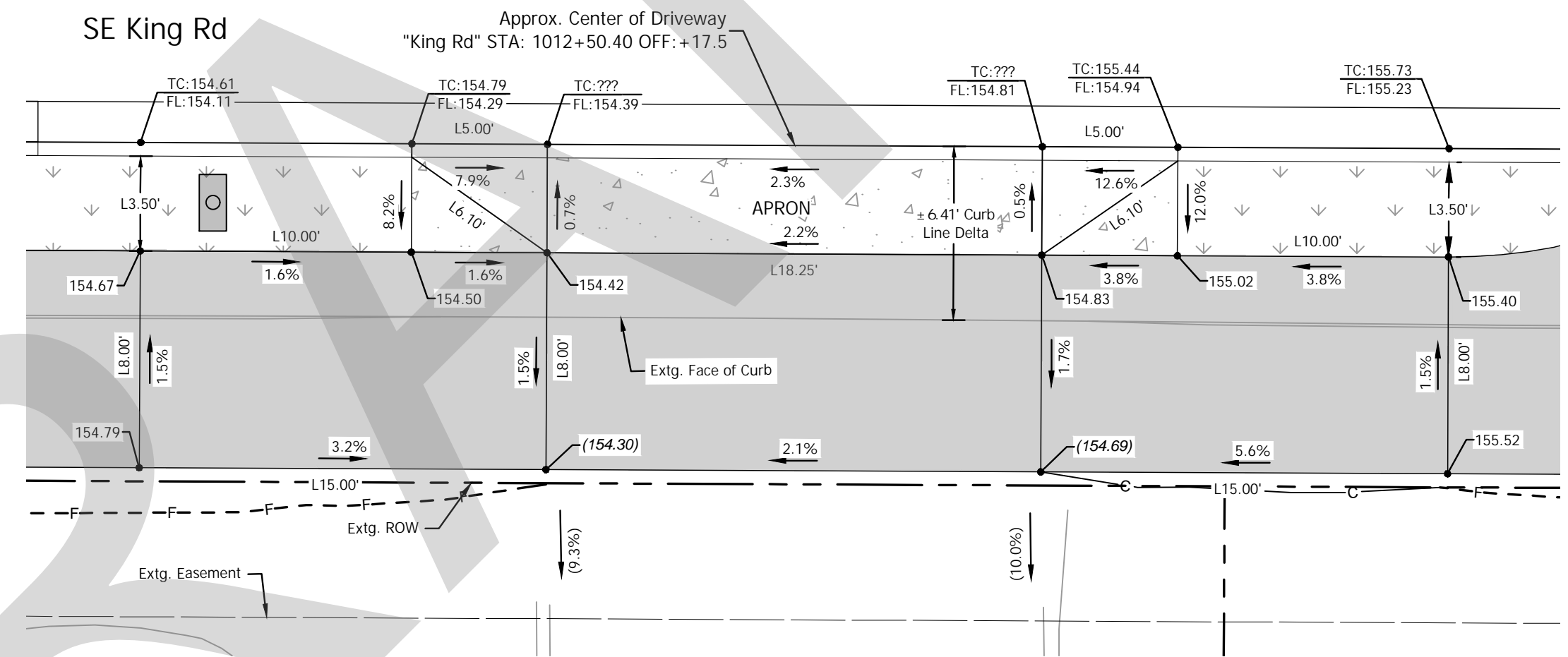
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
10.00'	20.00'	Concrete	(±) 49.90	Concrete	(±) 70.00



**70** 4706 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

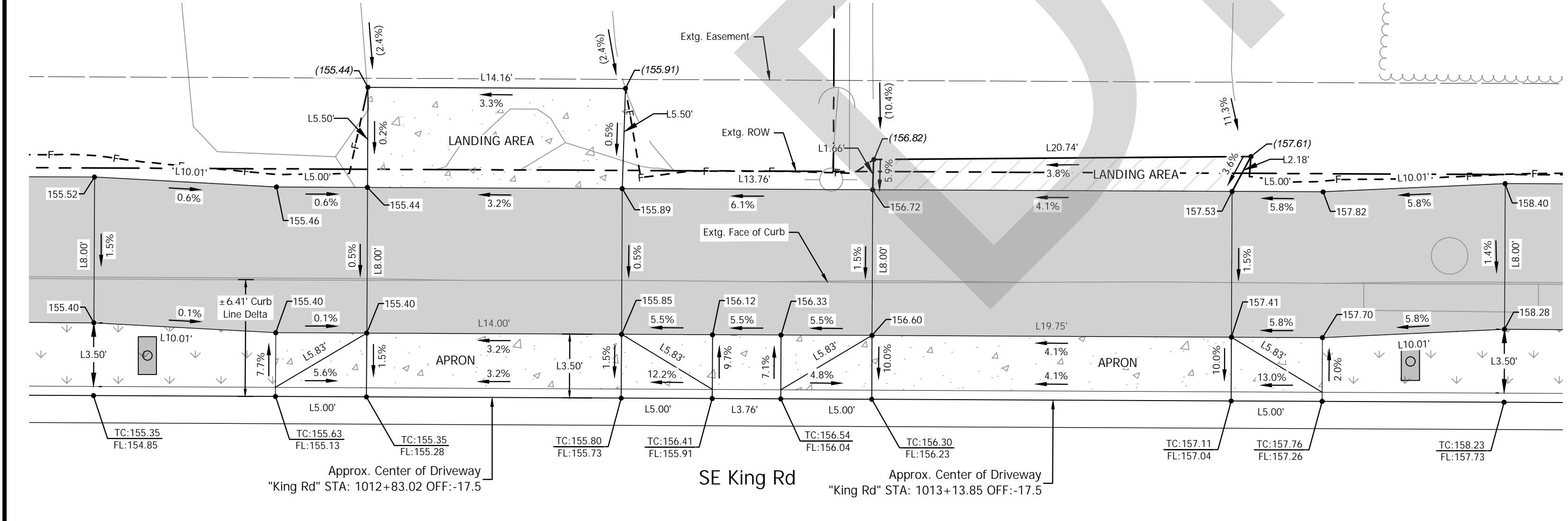
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
19.25'	29.25'	Asphalt	(±) 87.93	Concrete	(±) 102.37



**69** 4778 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
18.25'	28.25'	Concrete	(±) 98.88



**13** 4791 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
14.00'	24.00'	Concrete	(±) 76.98	Concrete	(±) 72.00

**14** 4813 SE King Rd  
 6 SCALE: 1" = 5'

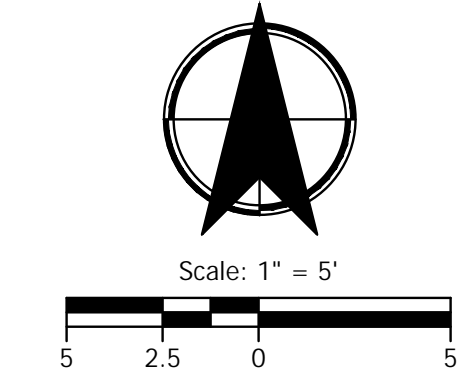
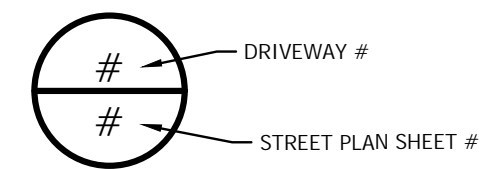
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
19.75'	29.75'	Asphalt	(±) 36.22	Concrete	(±) 89.25

**LEGEND**

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
- CUT LINE
- FILL LINE

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 - = OFFSET LEFT  
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**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.275.8169

#	DATE	REVISION	APPROVED

Submission Date: November 12, 2024  
 Drawn: DPB    Designed: DPB    Checked: JBK

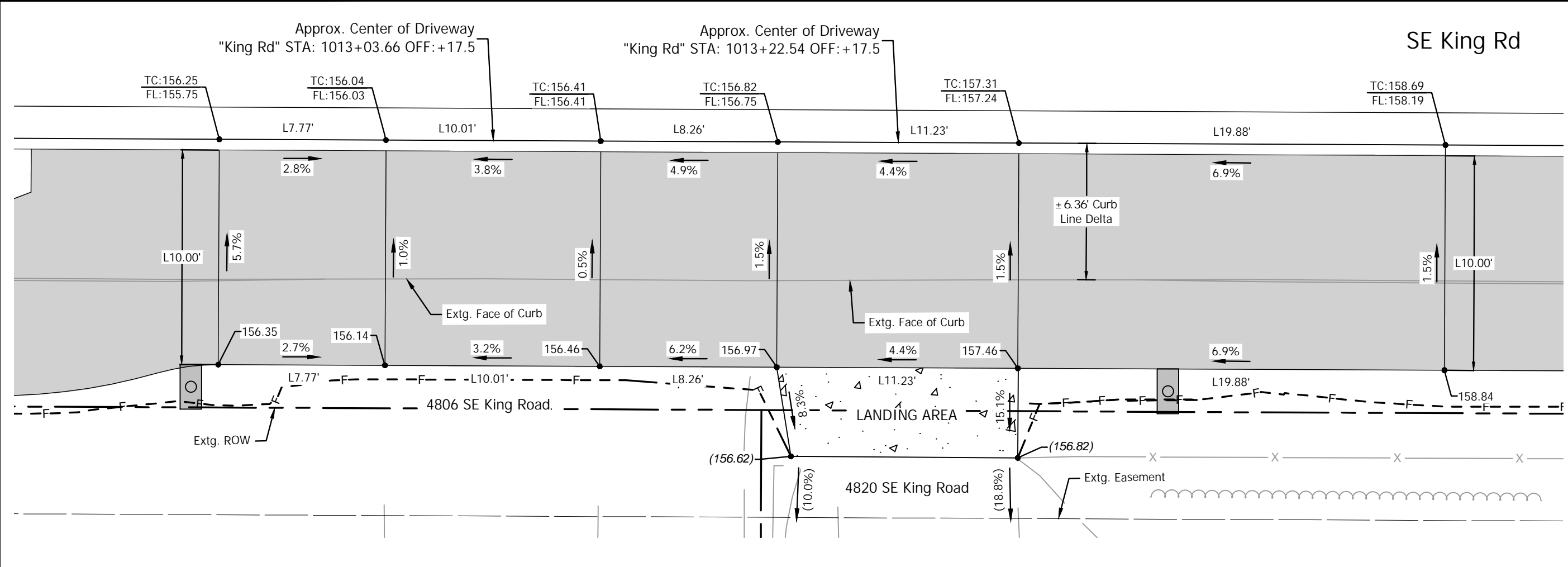
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO.  
**2E-39**

Plot Stamp: 11/12/2024 11:51:04 AM - Jamestown Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-28175.dwg



67 4806 SE King Rd  
 6 SCALE: 1" = 5'

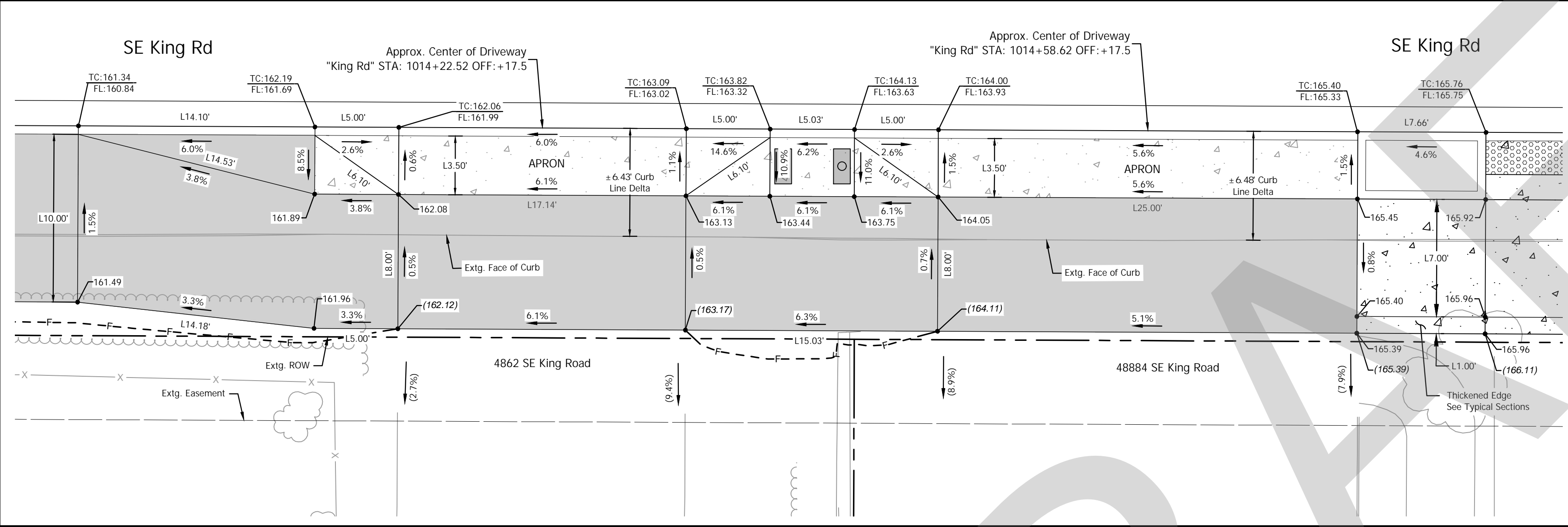
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)
10.01'	26.04'

68 4820 SE King Rd  
 6 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
11.23'	39.37'	Concrete	(±) 45.43



65 4884 SE King Rd  
 7 SCALE: 1" = 5'

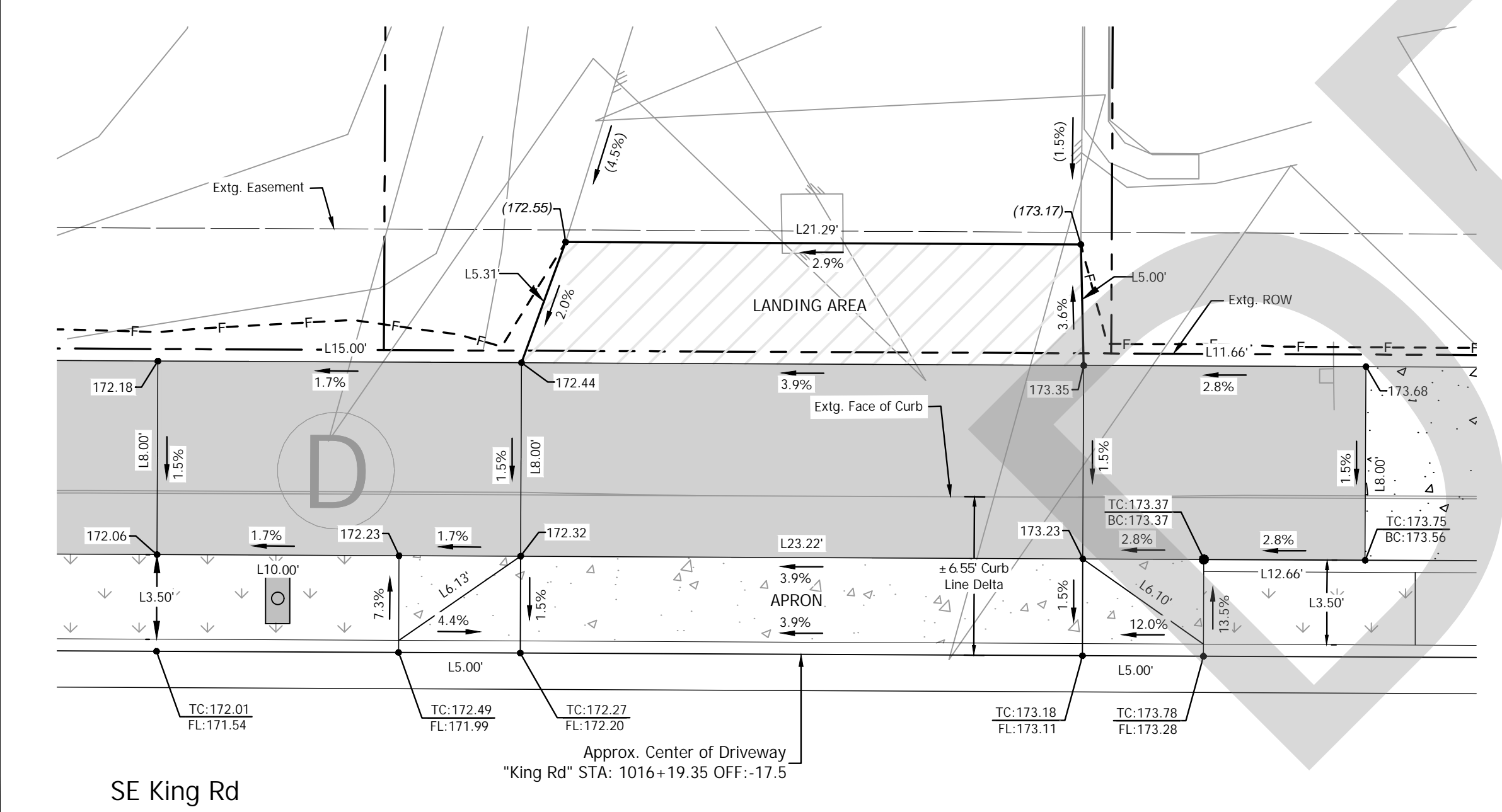
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
25.00'	30.00'	Concrete	(±) 105.00

66 4862 SE King Rd  
 7 SCALE: 1" = 5'

Driveway Construction Table

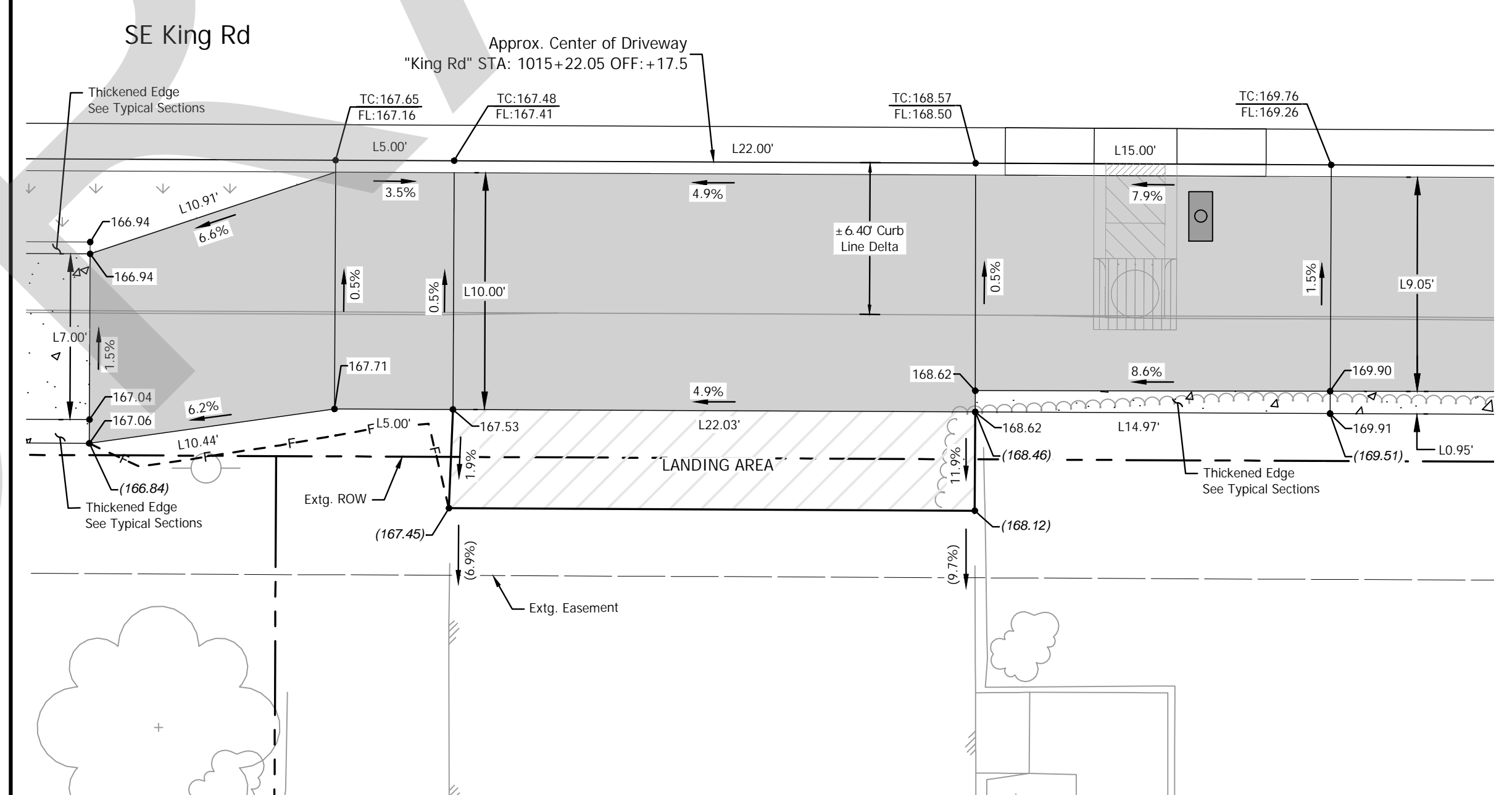
Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
17.14'	27.14'	Concrete	(±) 95.00



15 4985 SE King Rd  
 7 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
23.22'	32.22'	Asphalt	(±) 111.27	Concrete	(±) 115.53



64 4916 SE King Rd  
 7 SCALE: 1" = 5'

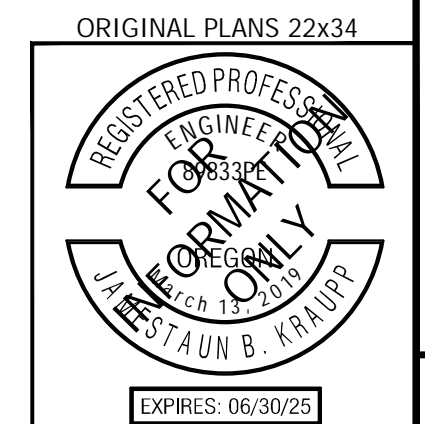
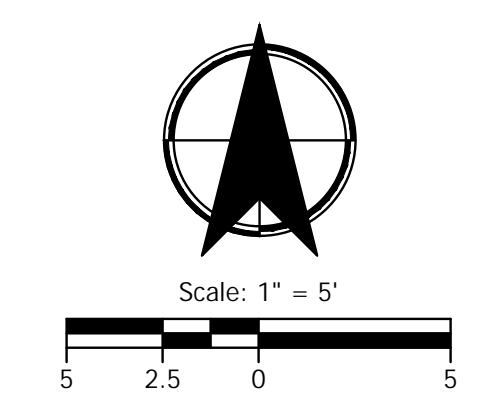
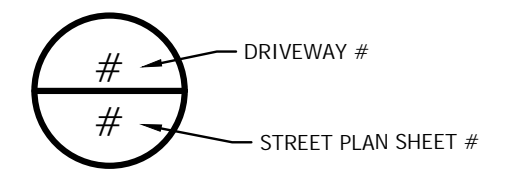
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
22.00'	42.22'	Asphalt	(±) 92.13

### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
- CUT LINE
- FILL LINE

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**KITTELSON & ASSOCIATES**

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NO.	REVISION	DATE	APP'D.

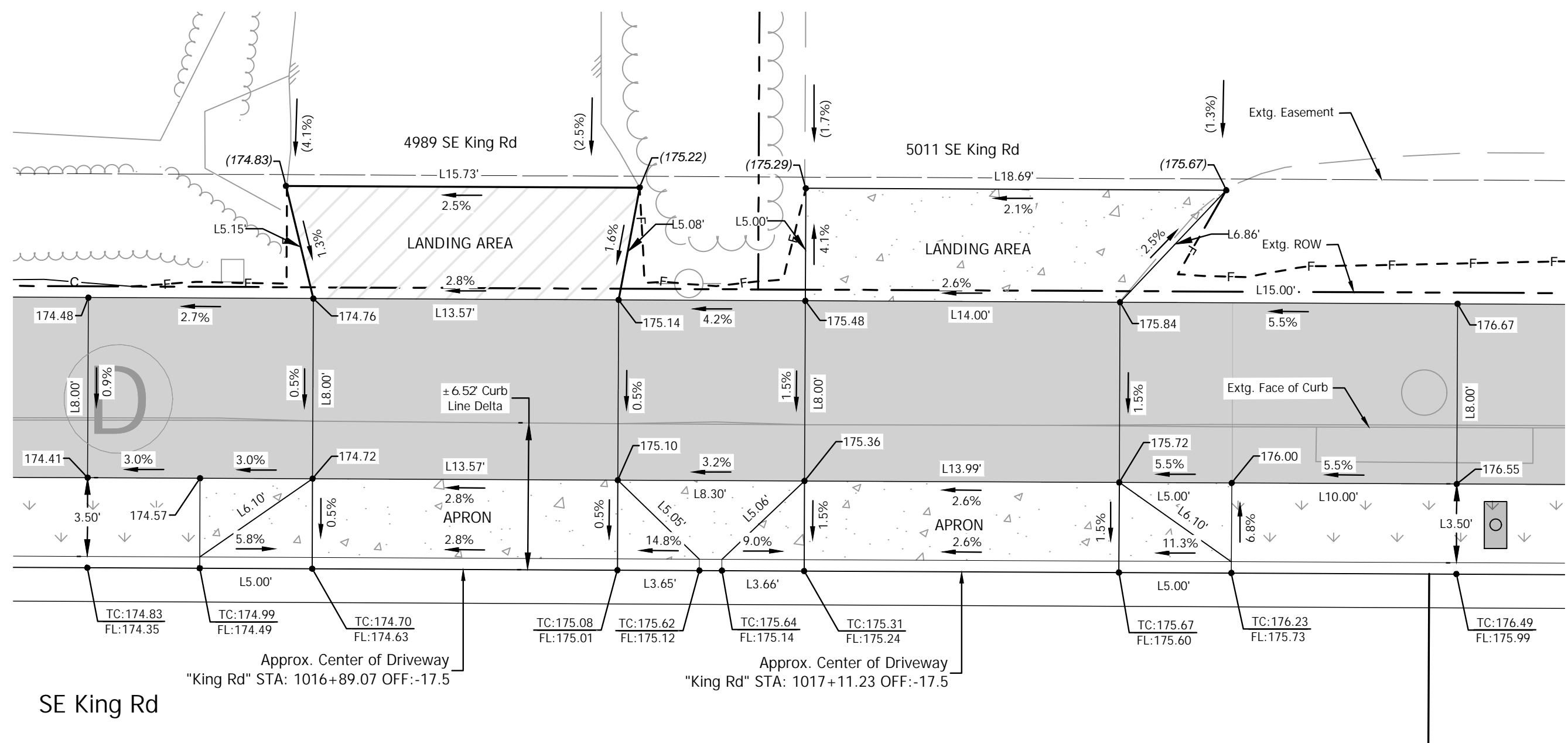
Submission Date: November 12, 2024  
 Drawn: DPB, Designed: DPB, Checked: JBK

PROJECT NO. C2023-032

KING ROAD IMPROVEMENTS  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO. 2E-40



16  
7 4989 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
13.57'	22.22'	Asphalt	(±) 73.24	Concrete	(±) 77.71

17  
7 5011 SE King Rd  
SCALE: 1" = 5'

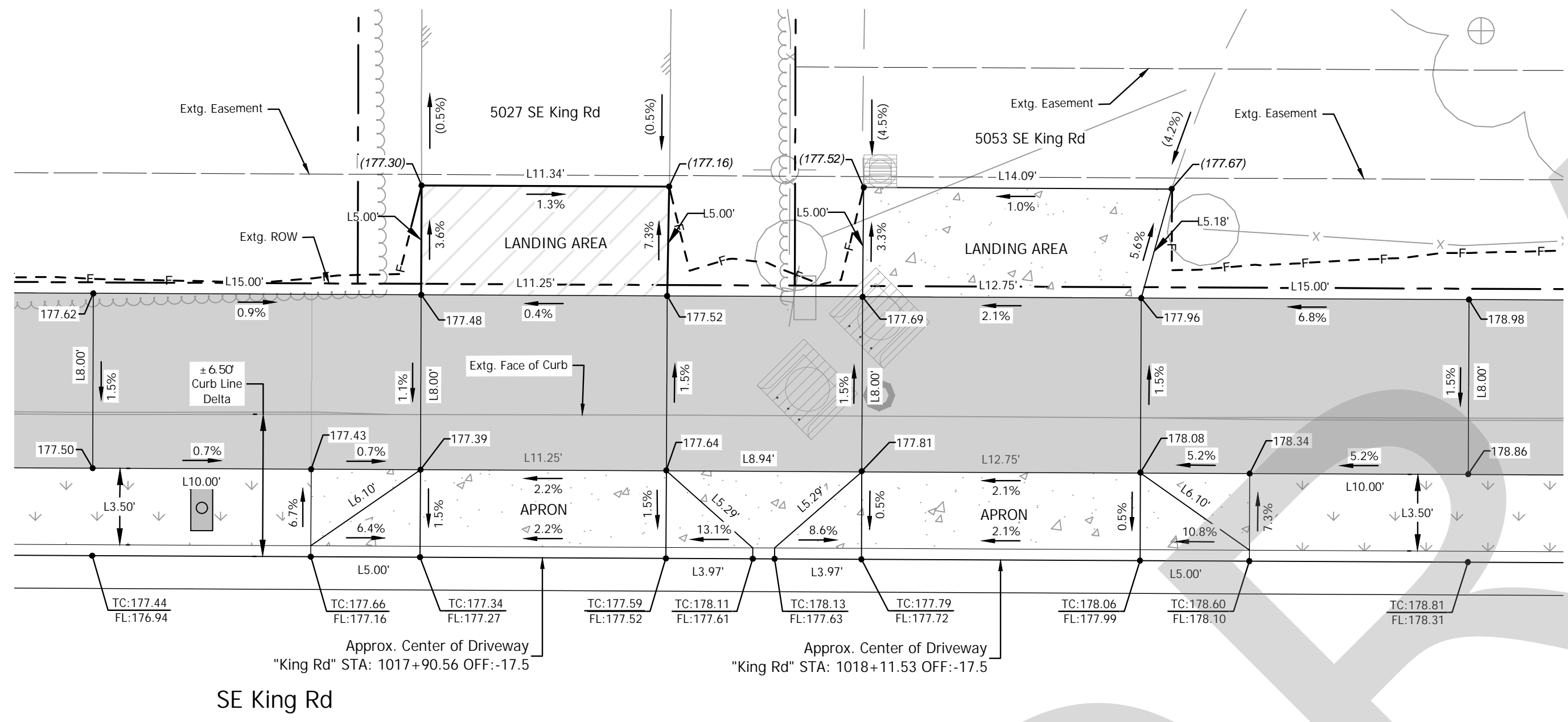
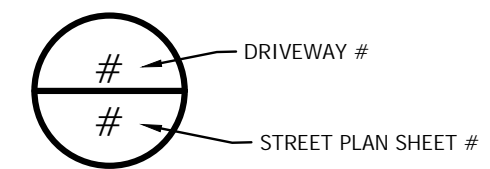
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
13.99'	22.65'	Concrete	(±) 81.72	Concrete	(±) 82.82

LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
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18  
7 5027 SE King Rd  
SCALE: 1" = 5'

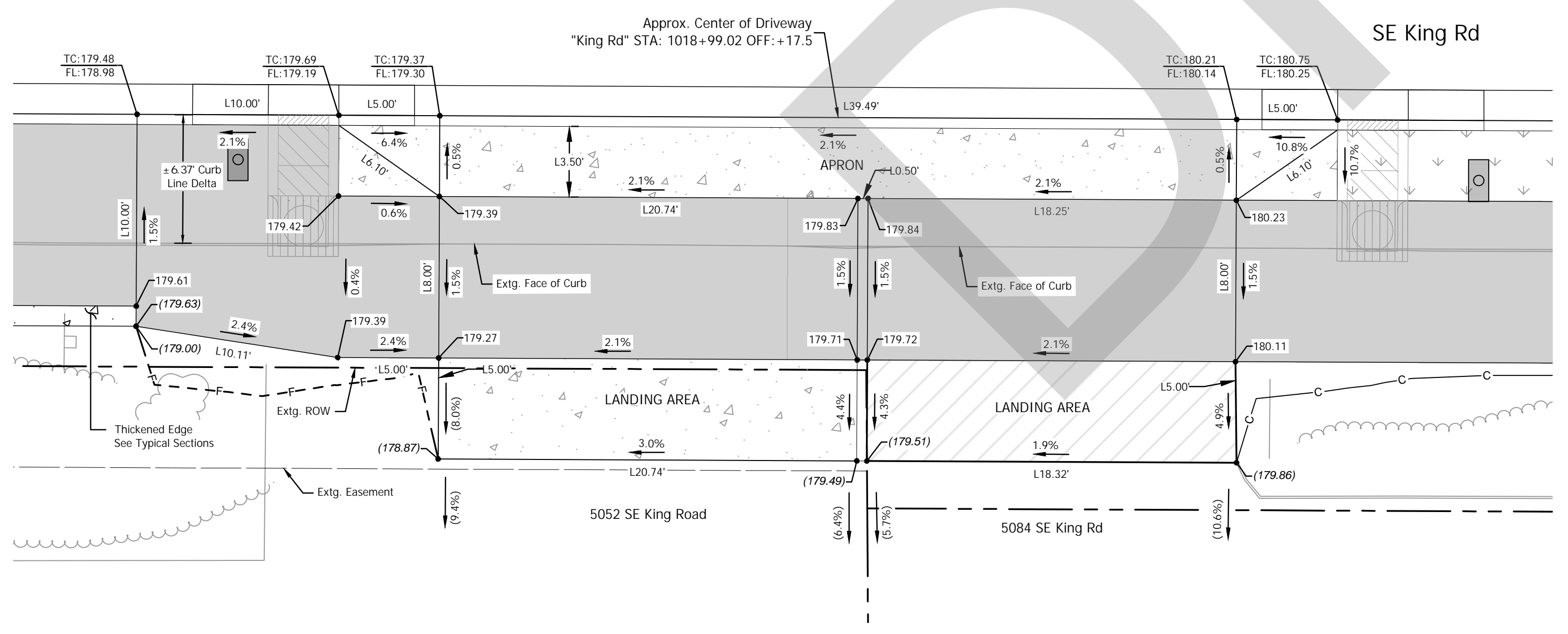
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
11.25'	20.22'	Asphalt	(±) 56.48	Concrete	(±) 74.02

19  
7 5053 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
12.75'	21.72'	Concrete	(±) 67.09	Concrete	(±) 75.54



63  
8 5052 & 5084 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
39.49'	49.49'	Concrete	(±) 173.18

62  
8 5052 SE King Rd  
SCALE: 1" = 5'

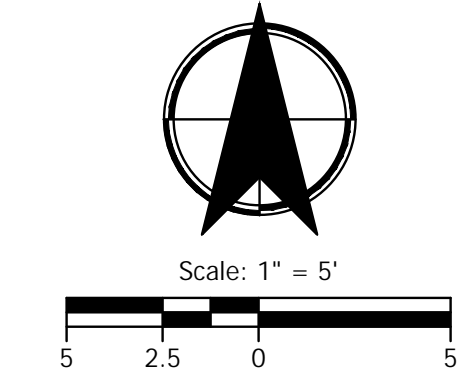
Driveway Construction Table

Landing Area Material	Landing Area (Sq. Ft) (D/W)
Asphalt	(±) 103.70

63  
8 5084 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Landing Area Material	Landing Area (Sq. Ft) (D/W)
Asphalt	(±) 91.46



CITY OF MILWAUKIE

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NO.	DATE	REVISION

SUBMISSION DATE: November 12, 2024

DRAWN: DPB DESIGNED: DPB CHECKED: JBK

PROJECT NO. C2023-032

KING ROAD IMPROVEMENTS  
 SE 43RD AVE TO SE LINWOOD AVE

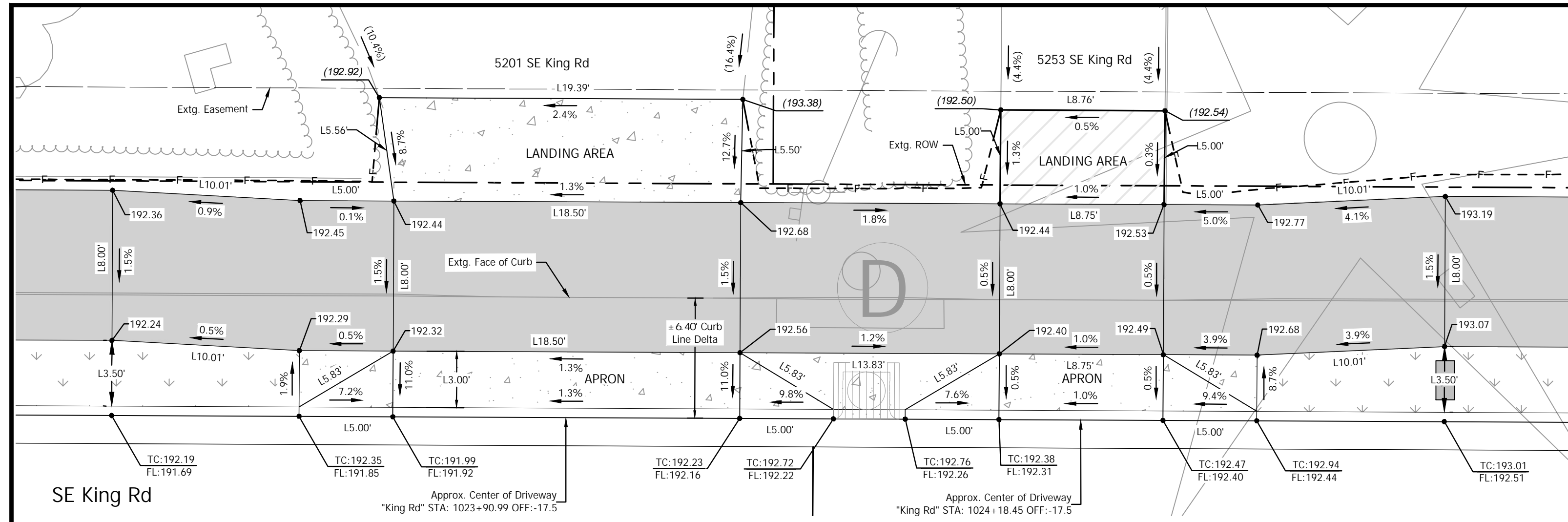
DETAILED DRIVEWAY GRADING

SHEET NO. 2E-41

Plot Stamp: 11/12/2024 11:51:26 AM - Jamestoun Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-28175.dwg







**24**  
**9** 5201 SE King Rd  
SCALE: 1" = 5'

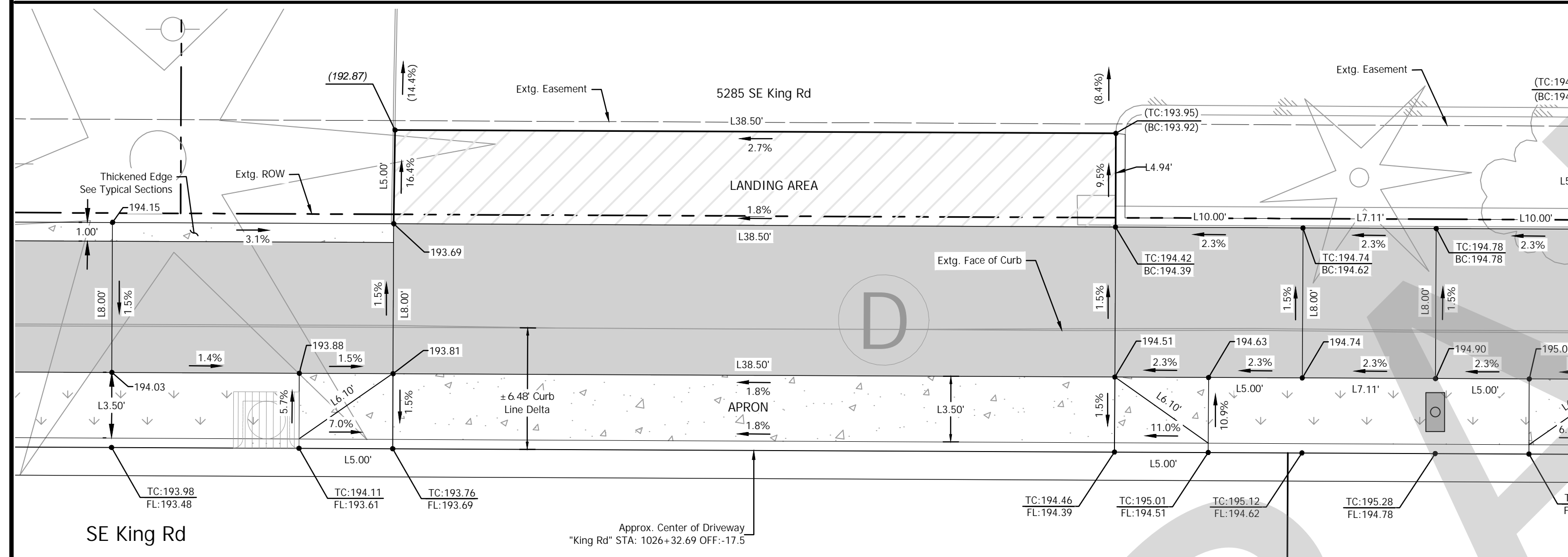
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
18.50'	28.50'	Concrete	(±) 104.19	Concrete	(±) 85.49

**25**  
**9** 5253 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
8.75'	18.75'	Asphalt	(±) 43.78	Concrete	(±) 67.75



**26A**  
**10** 5285 SE King Rd  
SCALE: 1" = 5'

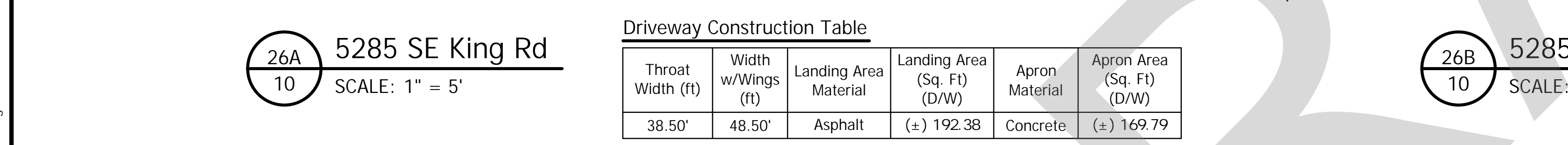
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
38.50'	48.50'	Asphalt	(±) 192.38	Concrete	(±) 169.79

**26B**  
**10** 5285 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

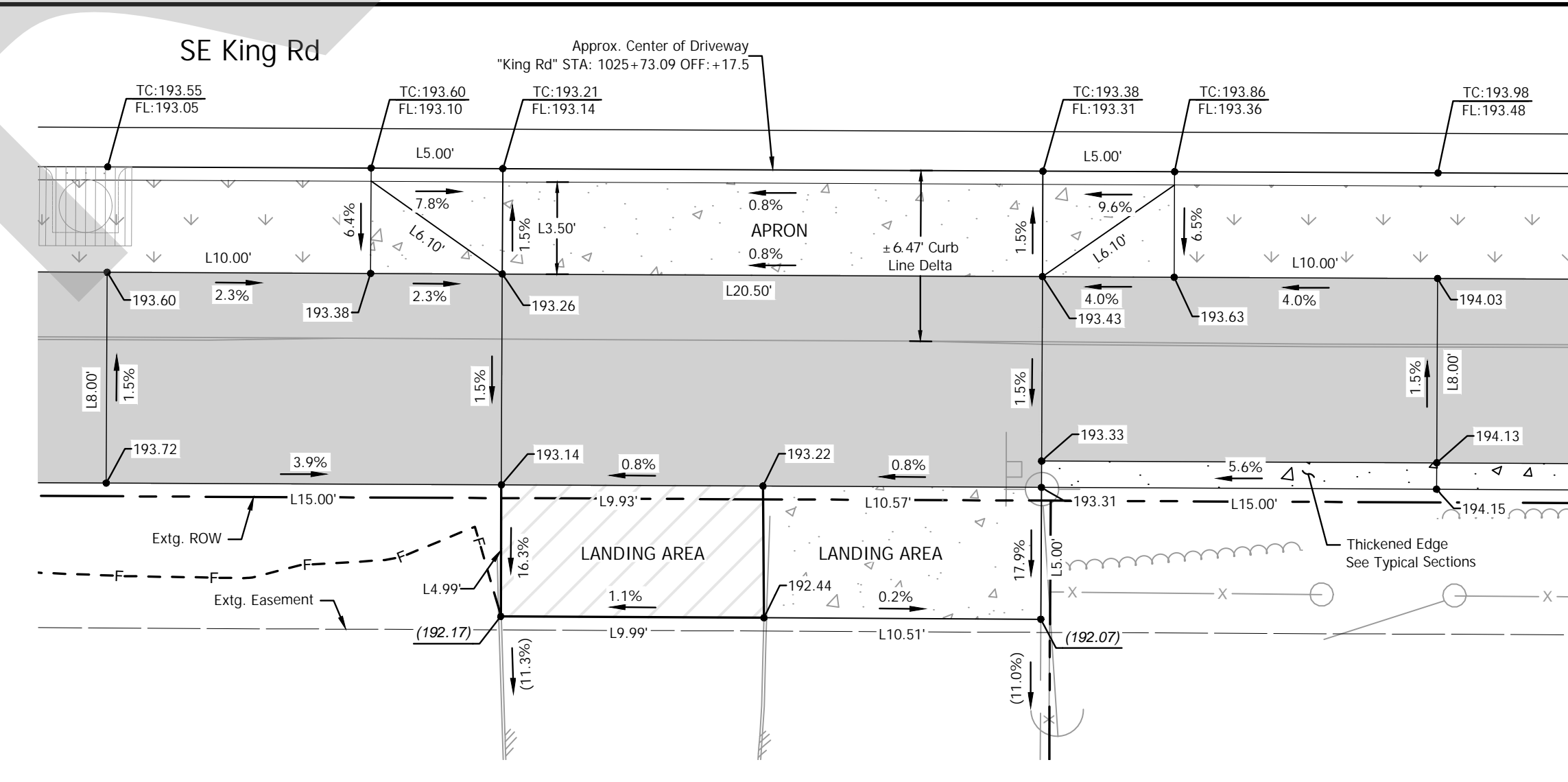
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
22.25'	32.25'	Asphalt	(±) 112.29	Concrete	(±) 112.86



**78**  
**9** 10380 SE Carmel Ct  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
23.25'	33.25'	Asphalt	(±) 120	Concrete	(±) 81.5



**60**  
**9** 5220 SE KING ROAD  
SCALE: 1" = 5'

Driveway Construction Table

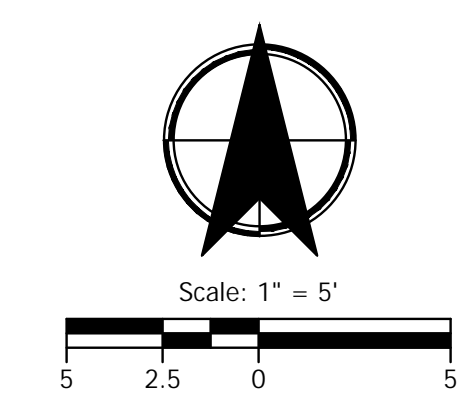
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
20.50'	30.50'	Asphalt	(±) 49.74	Concrete	(±) 52.68	Concrete	(±) 106.75

### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
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- FILL LINE

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DRIVEWAY #  
 STREET PLAN SHEET #



**CITY OF MILWAUKIE**

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#	DATE	REVISION	APP'D

Submission Date: November 12, 2024  
 Drawn: DPB, Designed: DPB, Checked: JBK

PROJECT NO.  
**C2023-032**

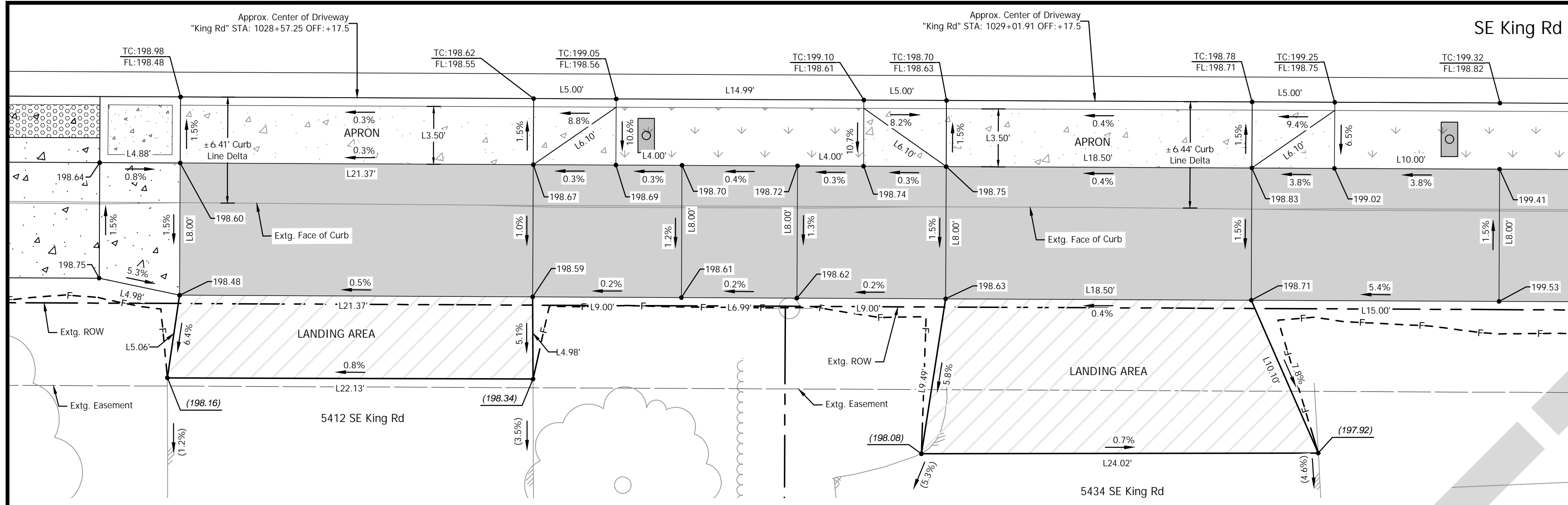
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO.  
**2E-43**

EXPIRES: 06/30/25

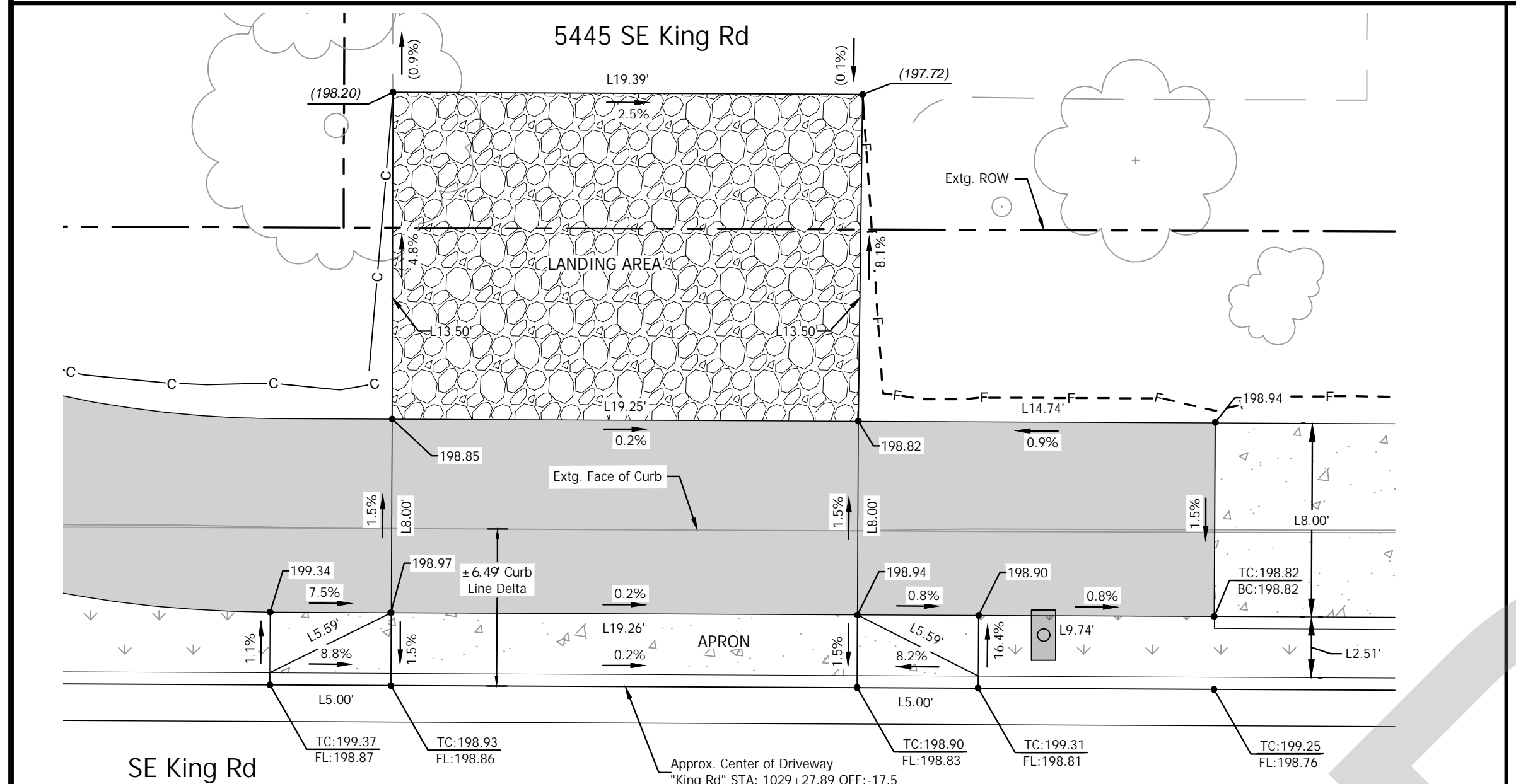
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 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg



58 5412 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

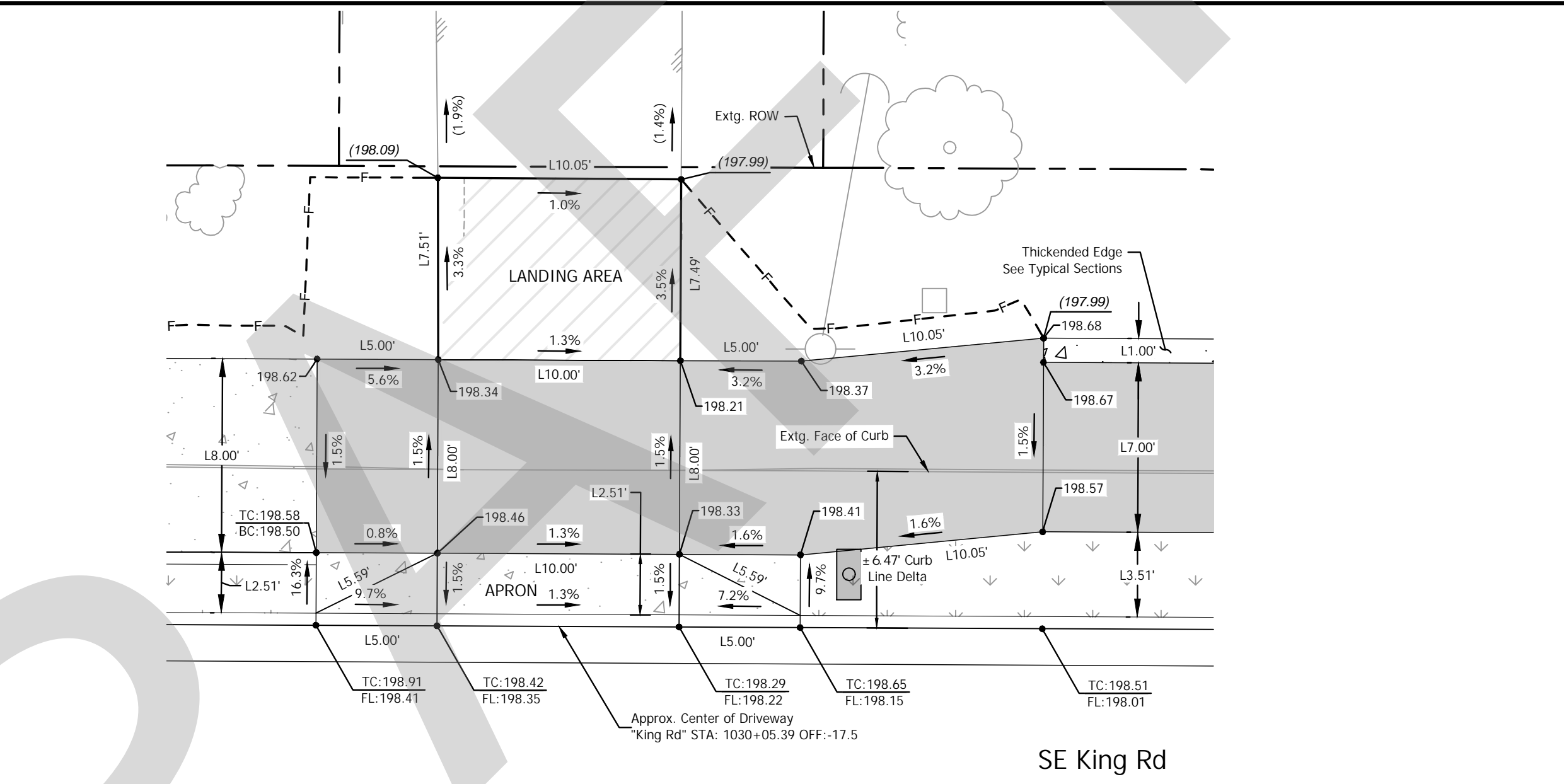
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
21.37'	25.37'	Asphalt	(±) 108.53	Concrete	(±) 92.30



27 5445 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

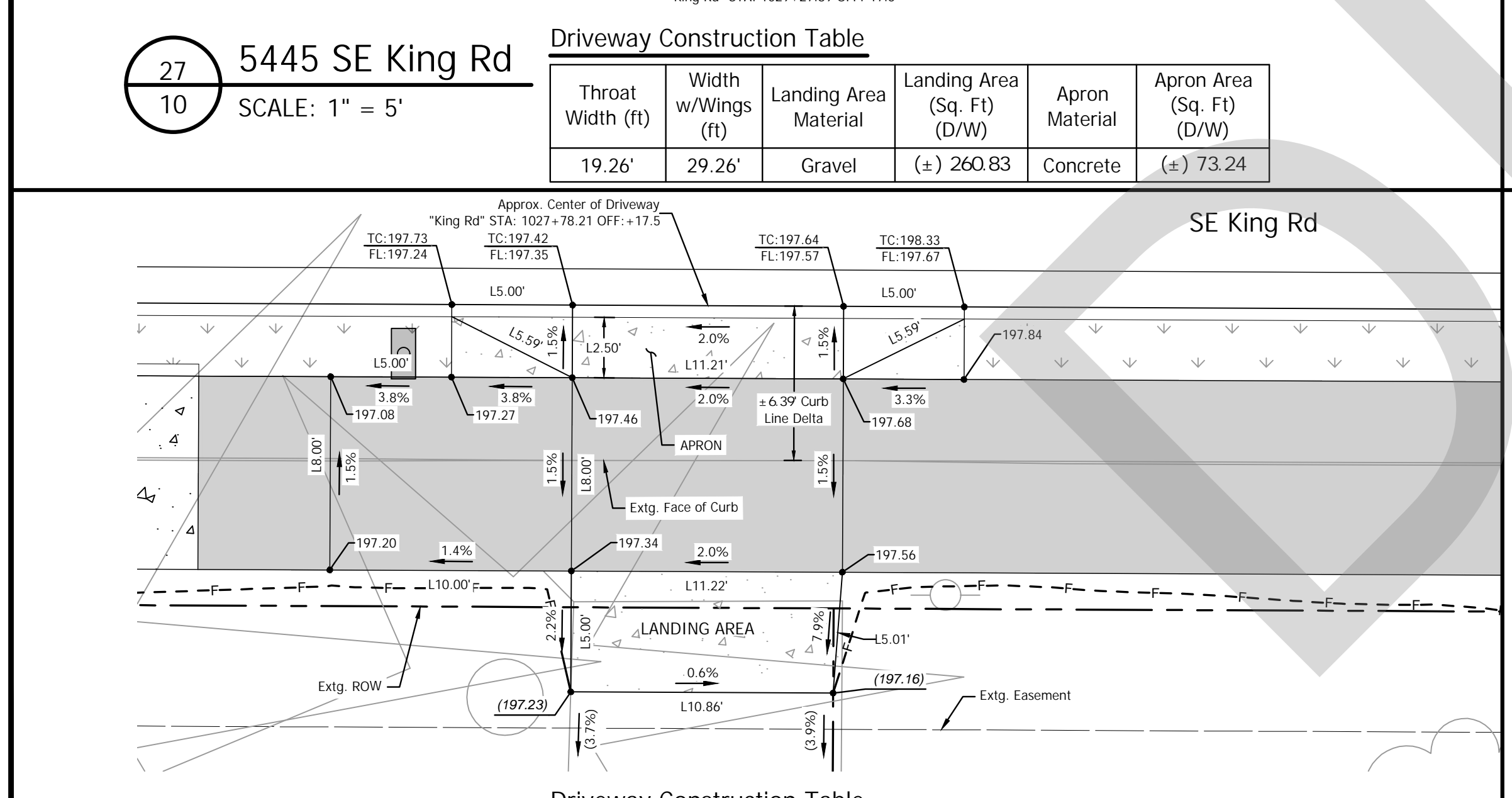
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
19.26'	29.26'	Gravel	(±) 260.83	Concrete	(±) 73.24



28 5447 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

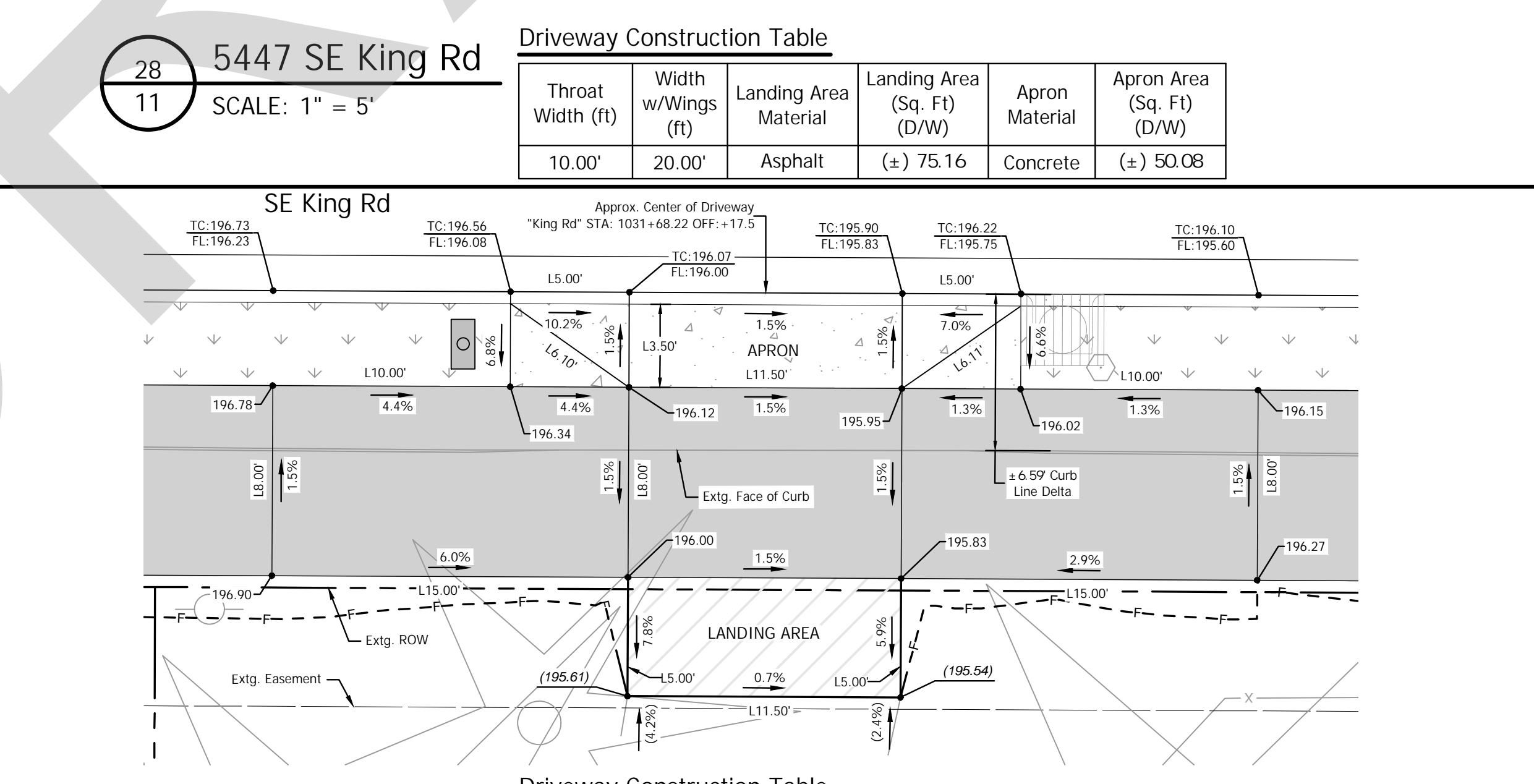
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
10.00'	20.00'	Asphalt	(±) 75.16	Concrete	(±) 50.08



59 5328 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
11.21'	21.21'	Asphalt	(±) 55.19	Concrete	(±) 53.06



56 5624 SE King Rd  
SCALE: 1" = 5'

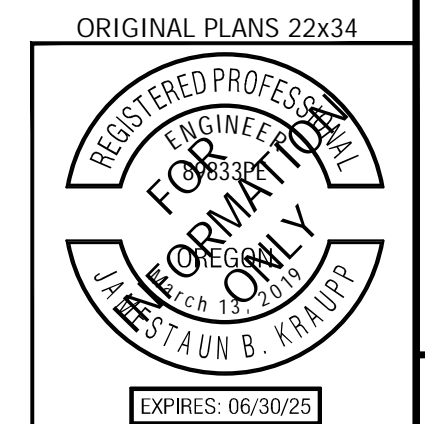
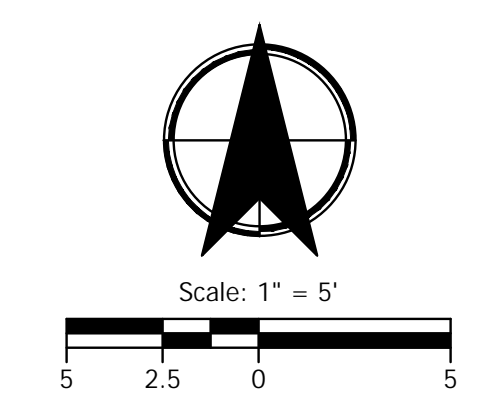
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
11.50'	21.50'	Asphalt	(±) 57.48	Concrete	(±) 75.21

LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
- GRAVEL DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
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- FILL LINE

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#	DATE	REVISION	APP'D

Submission Date: November 12, 2024

Drawn: DPB    Designed: DPB    Checked: JBK

PROJECT NO.  
**C2023-032**

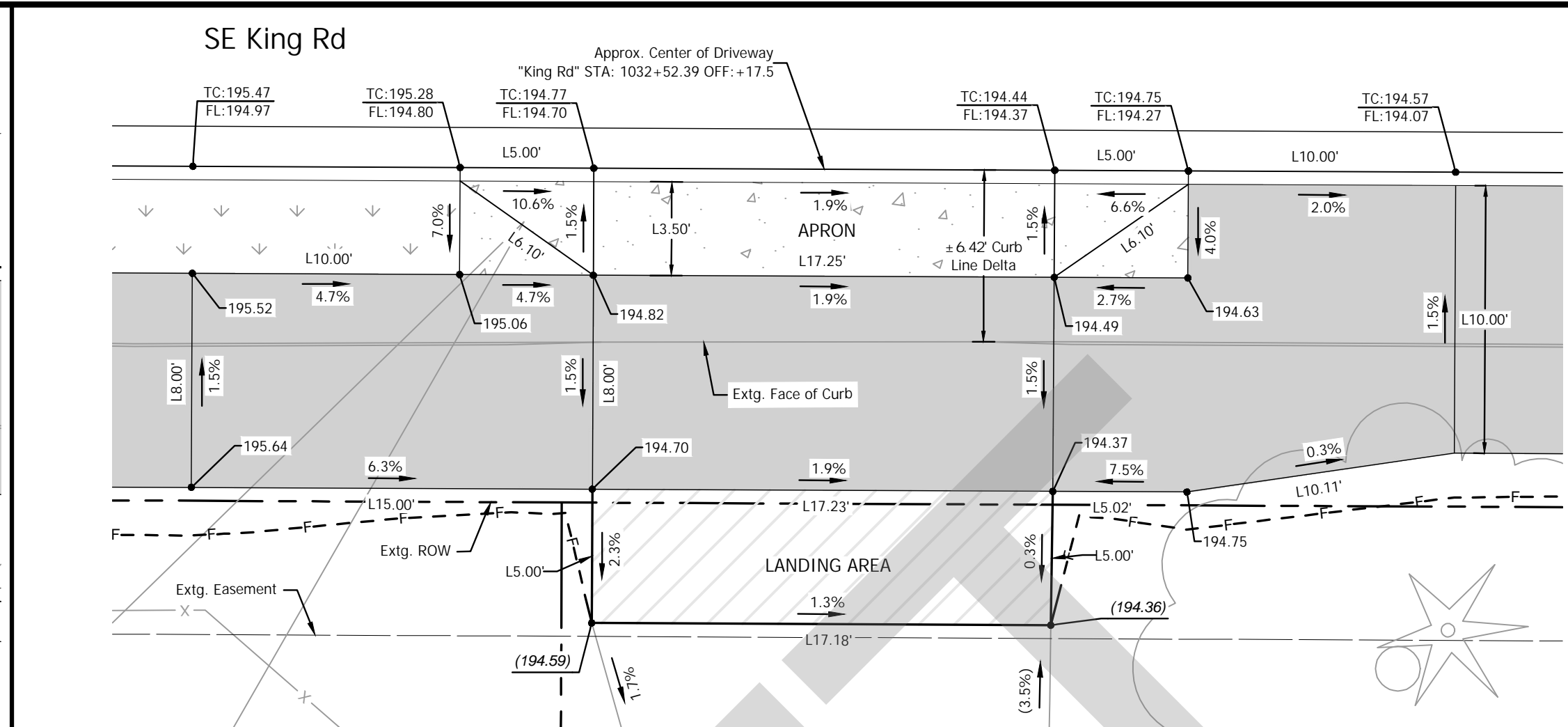
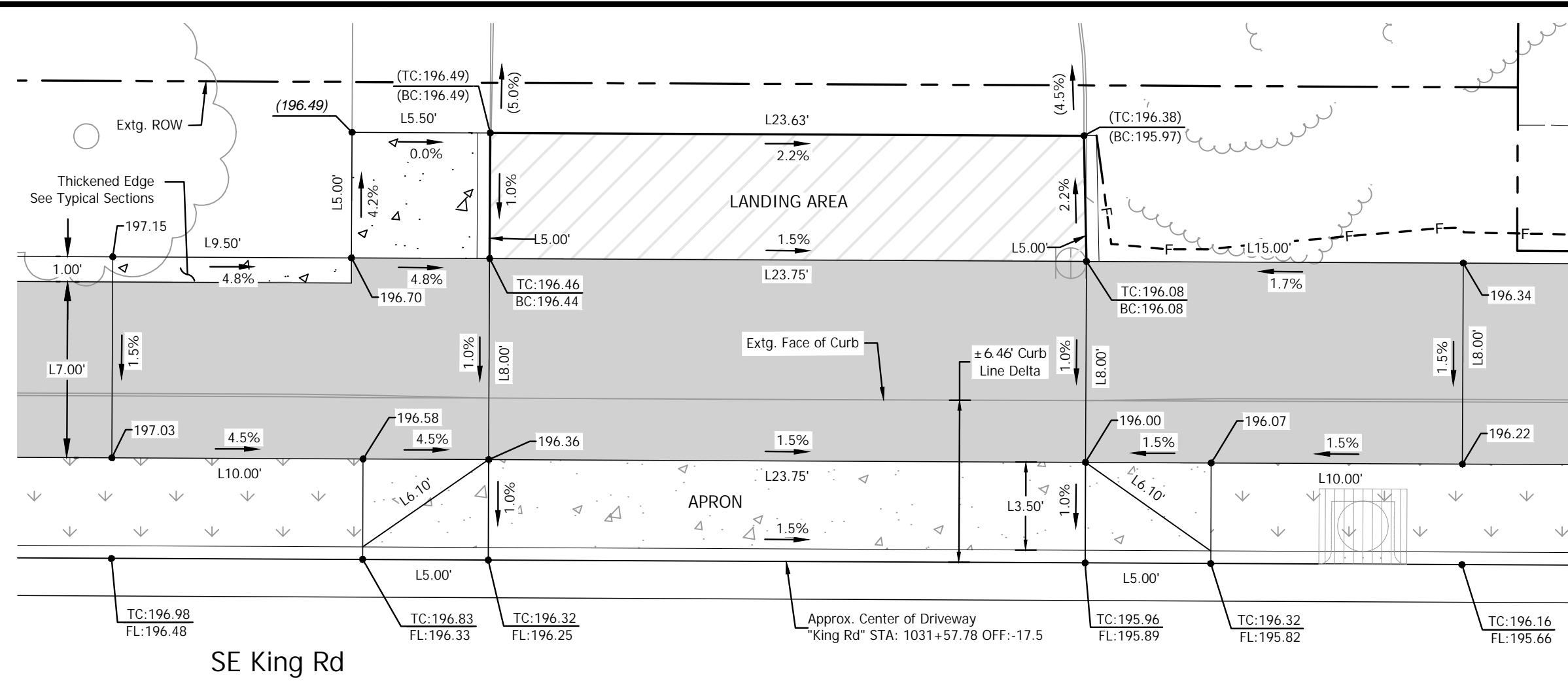
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO.  
**2E-44**

EXPIRES: 06/30/25

Plot Stamp: 11/12/2024 11:52:52 AM - Jamestown Kraupp  
File: H:\28128175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg



### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
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**29**  
**11** 5555 SE King Rd  
 SCALE: 1" = 5'

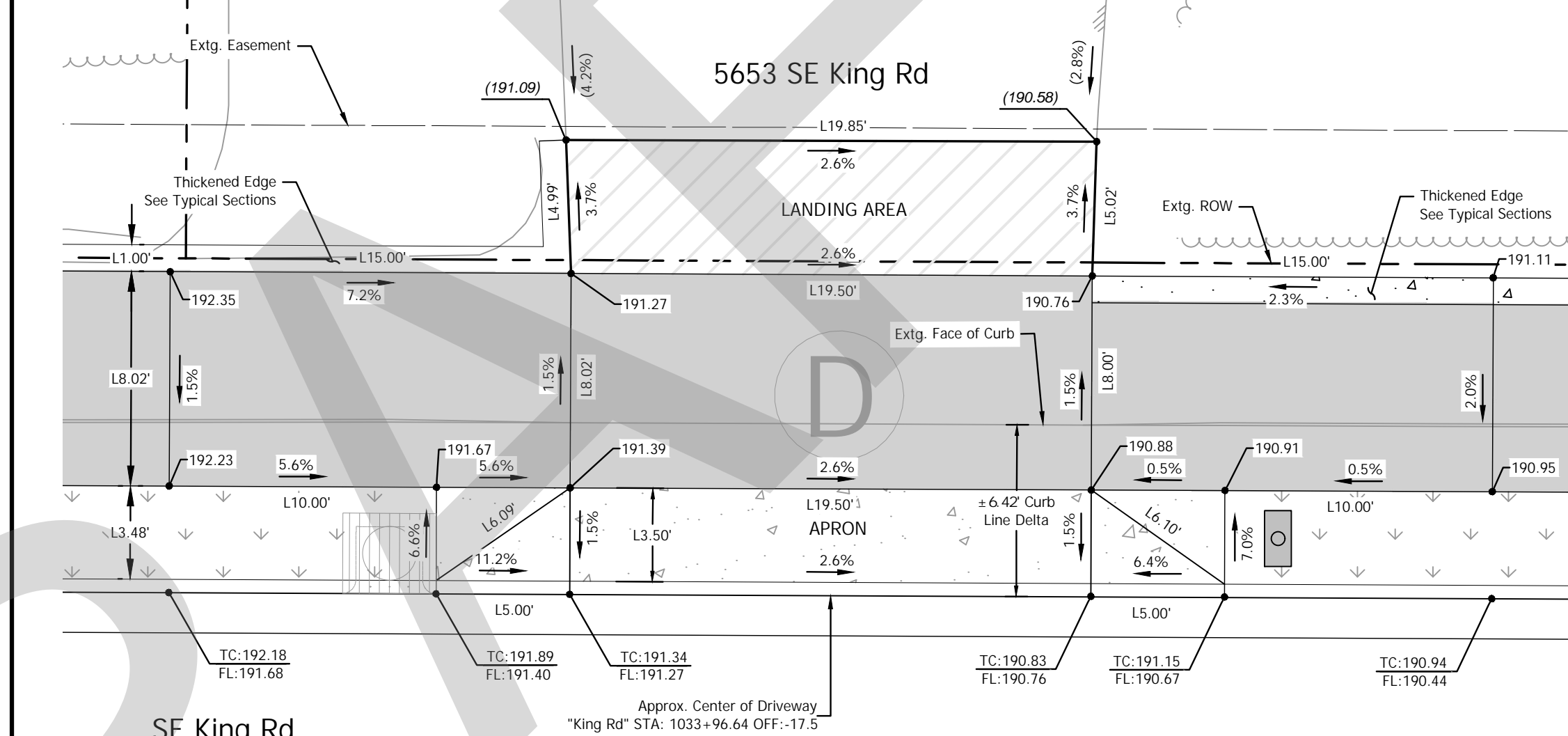
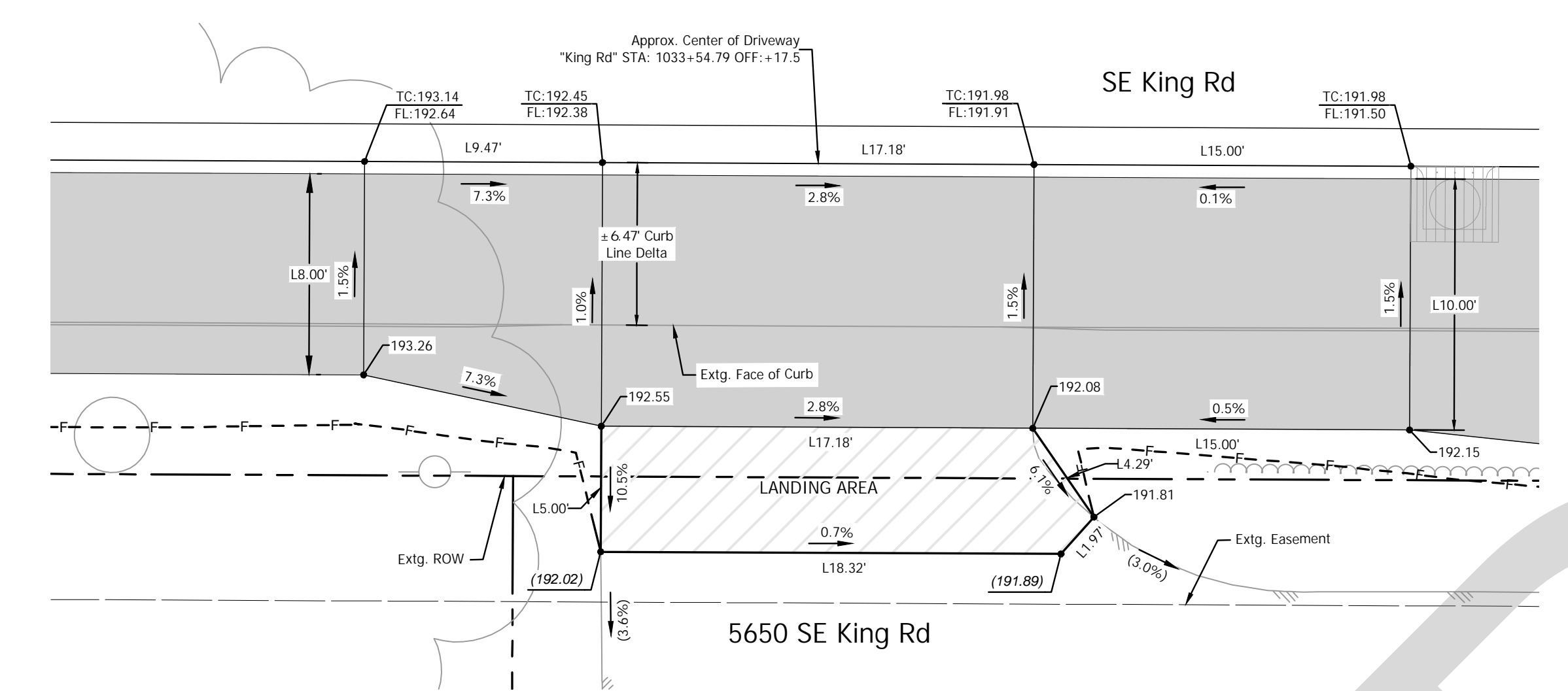
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
23.75'	43.75'	Asphalt	(±) 118.45	Concrete	(±) 118.29

**55**  
**11** 5640 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
17.25'	27.25'	Asphalt	(±) 95.36	Concrete	(±) 86.03



**54**  
**11** 5650 SE King Rd  
 SCALE: 1" = 5'

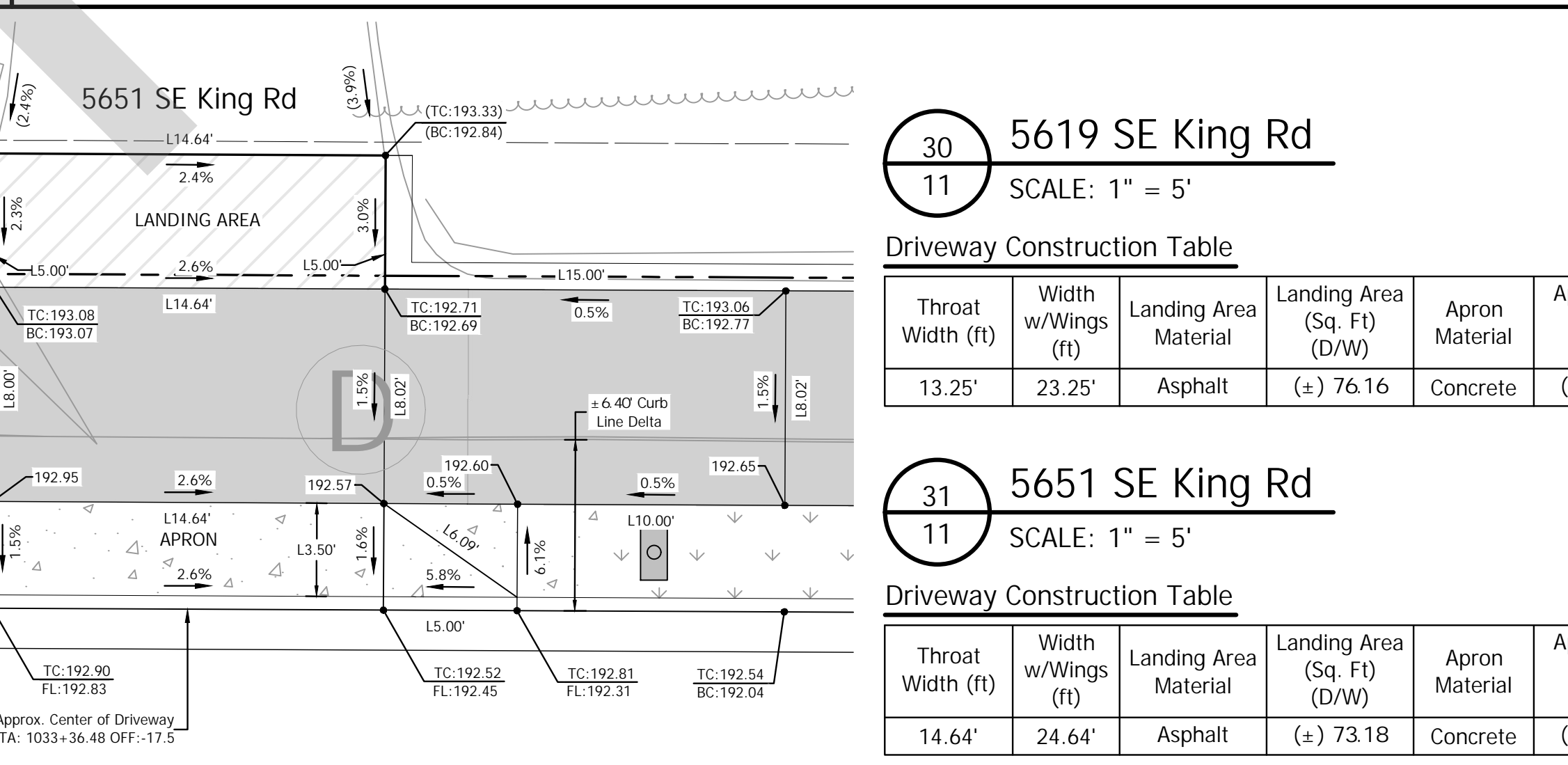
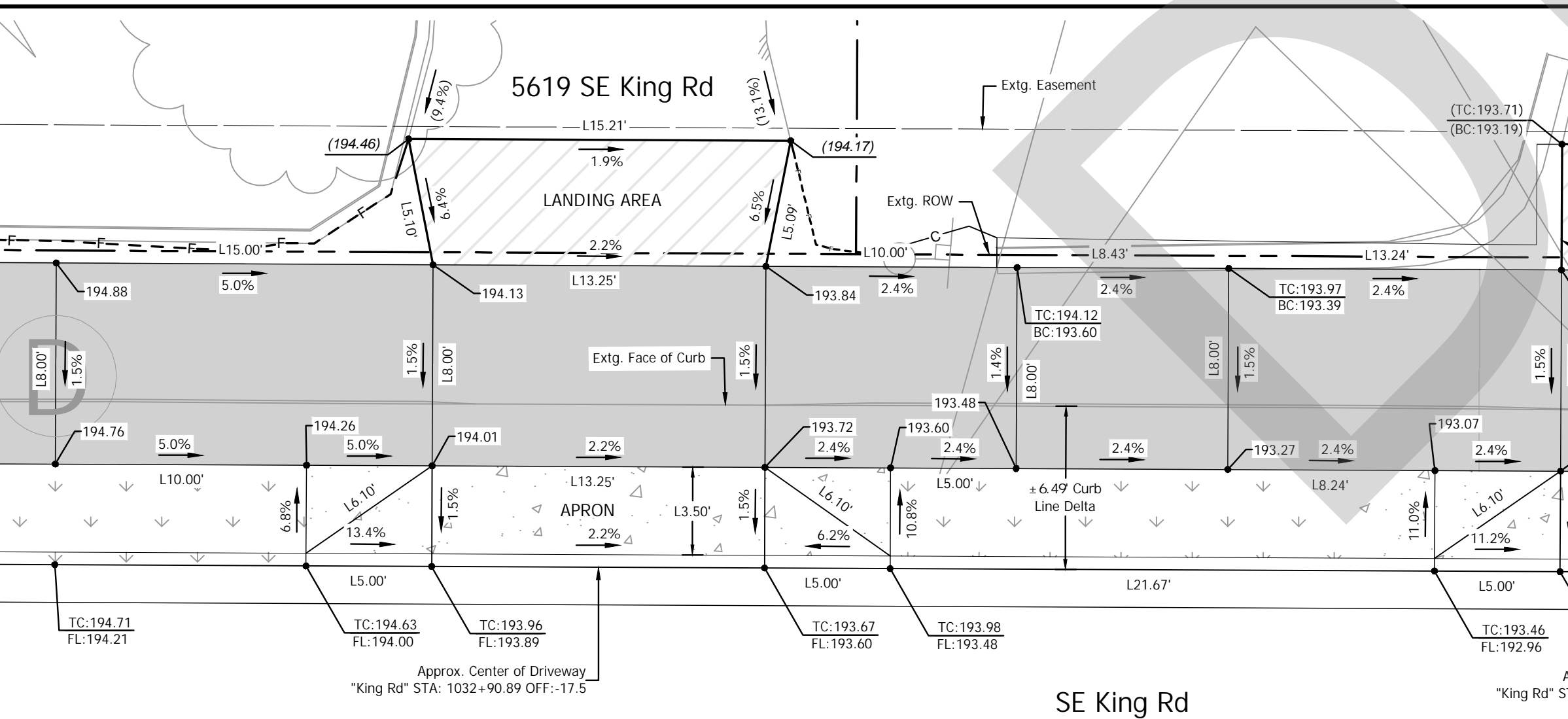
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
17.18'	41.65'	Asphalt	(±) 92.86

**32**  
**12** 5653 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
19.50'	29.50'	Asphalt	(±) 98.50	Concrete	(±) 103.02



**30**  
**11** 5619 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
13.25'	23.25'	Asphalt	(±) 76.16	Concrete	(±) 81.46

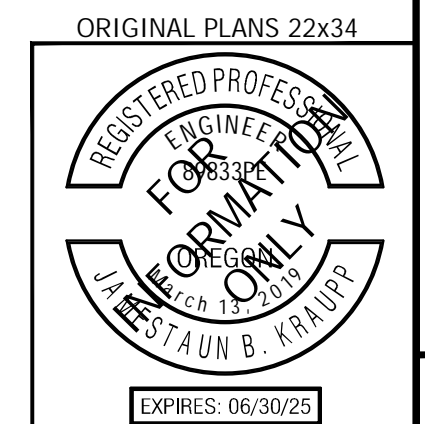
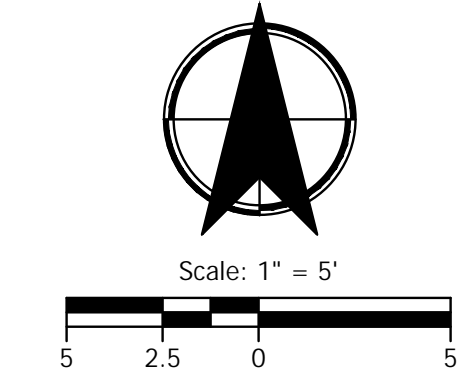
**31**  
**11** 5651 SE King Rd  
 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
14.64'	24.64'	Asphalt	(±) 73.18	Concrete	(±) 85.98

TC = TOP OF CURB ELEVATION  
 BC = BOTTOM OF CURB ELEVATION  
 FL = FLOW LINE ELEVATION  
 RX.XX = RADIUS  
 LX.XX = LINE LENGTH  
 CX.XX = CURVE LENGTH  
 - = OFFSET LEFT  
 + = OFFSET RIGHT

DRIVEWAY #  
 STREET PLAN SHEET #



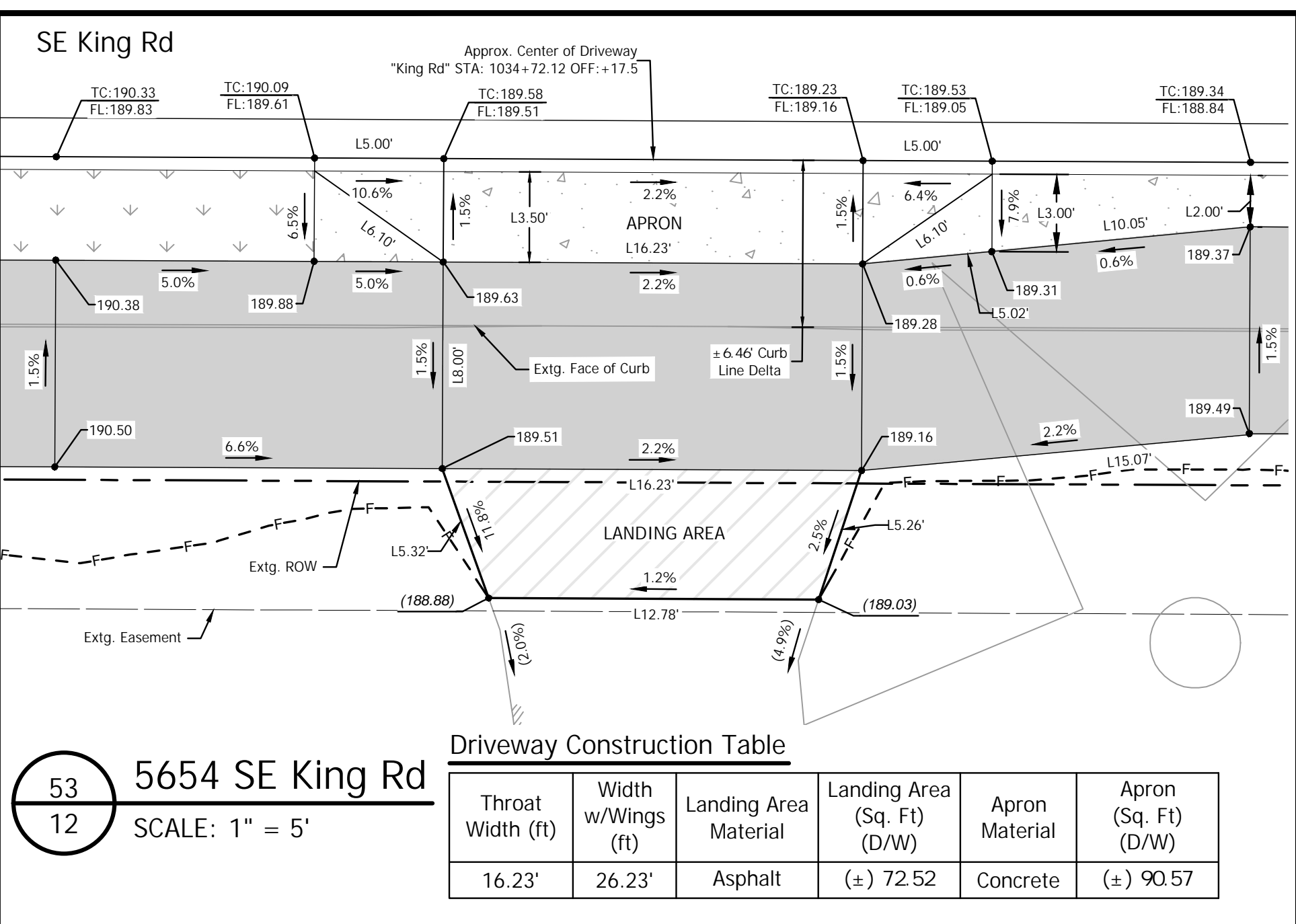
NO.	DATE	REVISION	APP'D.

Submission Date:  
 November 12, 2024  
 Drawn: DPB  
 Designed: DPB  
 Checked: JBK

PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 DETAILED DRIVEWAY GRADING

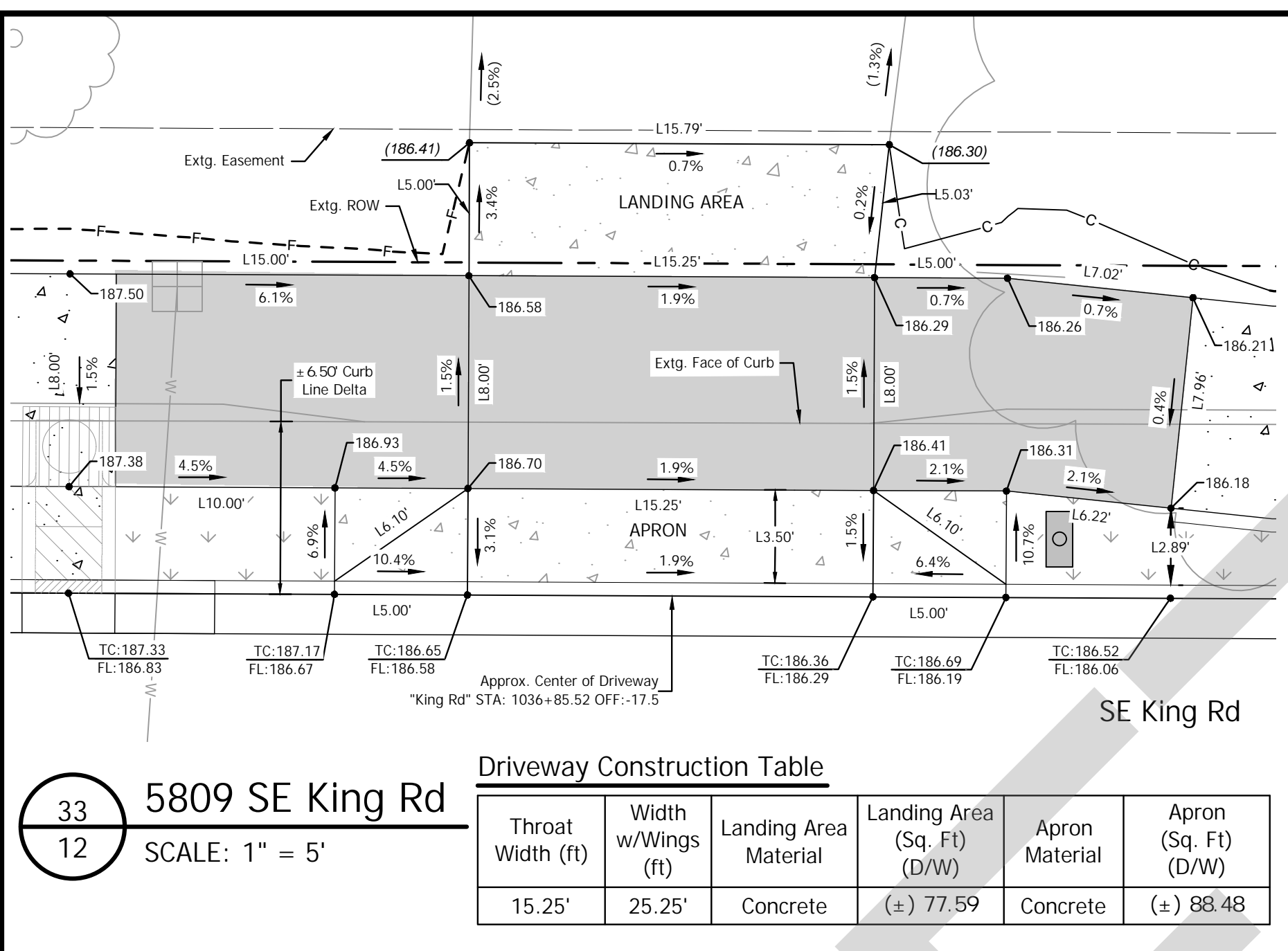
Plot Stamp: 11/12/2024 11:53:21 AM - Jamestaun Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg



53  
12  
5654 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

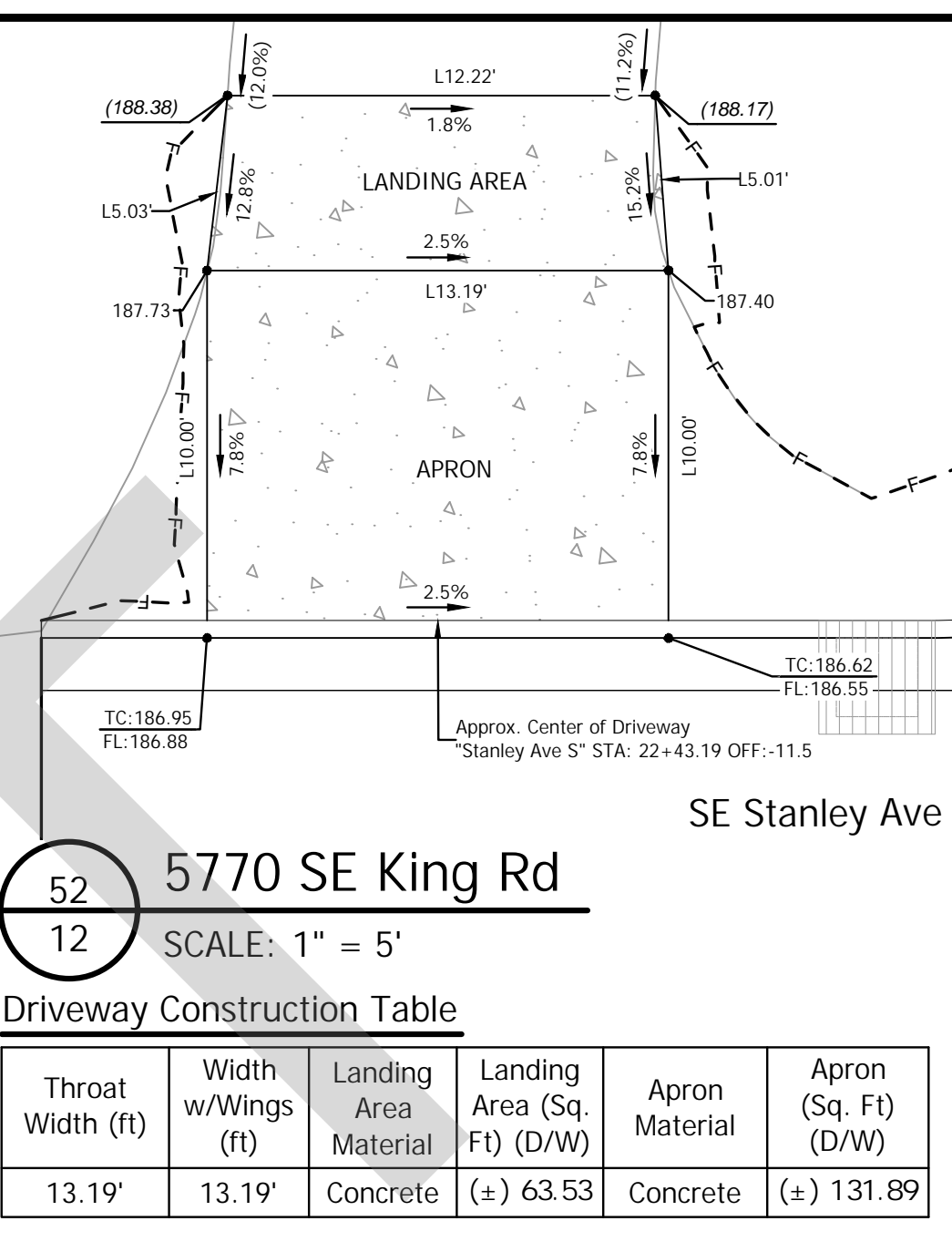
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron (Sq. Ft) (D/W)
16.23'	26.23'	Asphalt	(±) 72.52	Concrete	(±) 90.57



33  
12  
5809 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron (Sq. Ft) (D/W)
15.25'	25.25'	Concrete	(±) 77.59	Concrete	(±) 88.48



52  
12  
5770 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

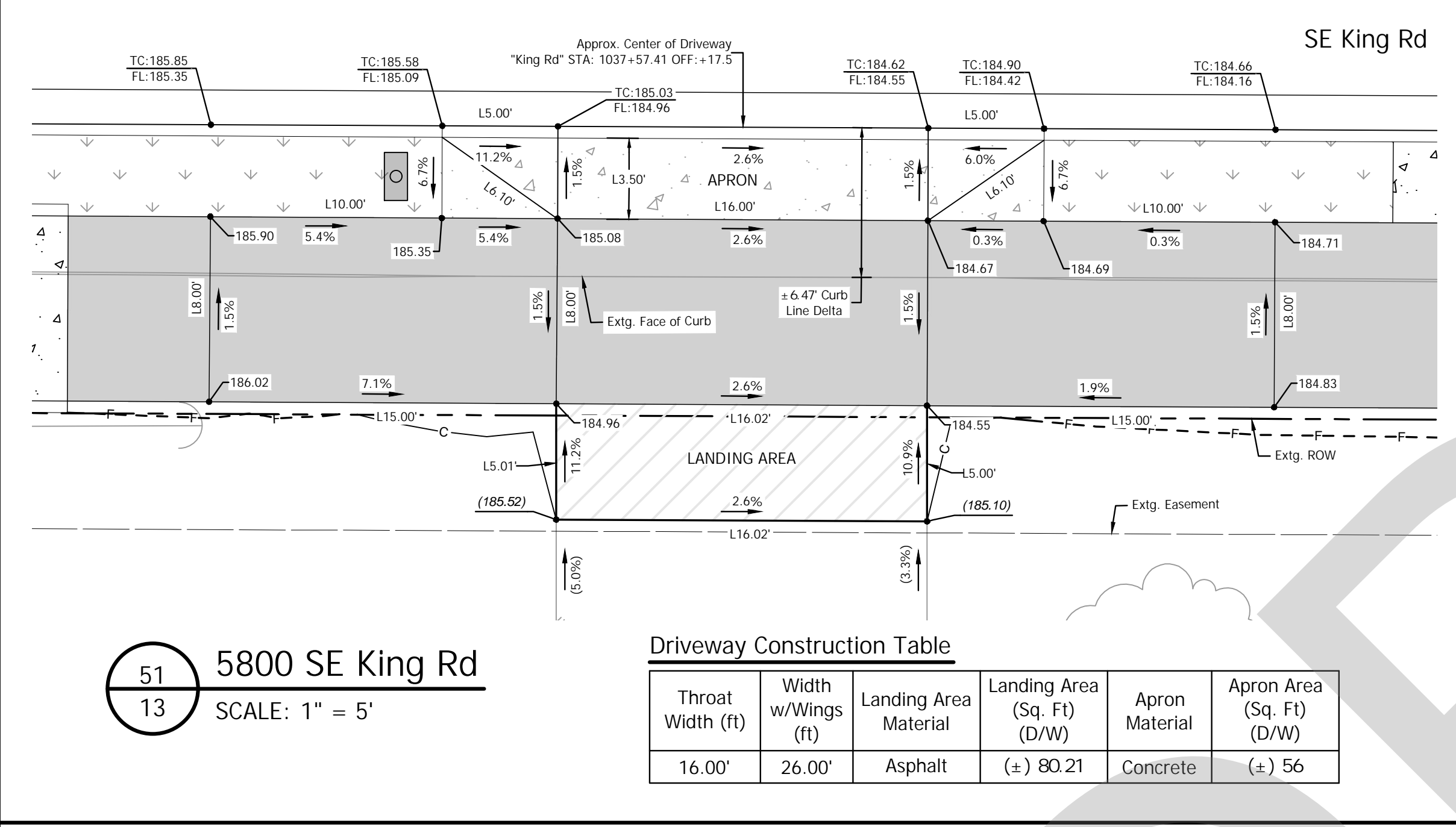
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron (Sq. Ft) (D/W)
13.19'	13.19'	Concrete	(±) 63.53	Concrete	(±) 131.89

### LEGEND

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
- POROUS PAVEMENT PATH PER TYPICALS
- CUT LINE
- FILL LINE

TC = TOP OF CURB ELEVATION  
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 LX.XX = LINE LENGTH  
 CX.XX = CURVE LENGTH  
 (XXX.XX) = MATCH EXTG. GRADE  
 - = OFFSET LEFT  
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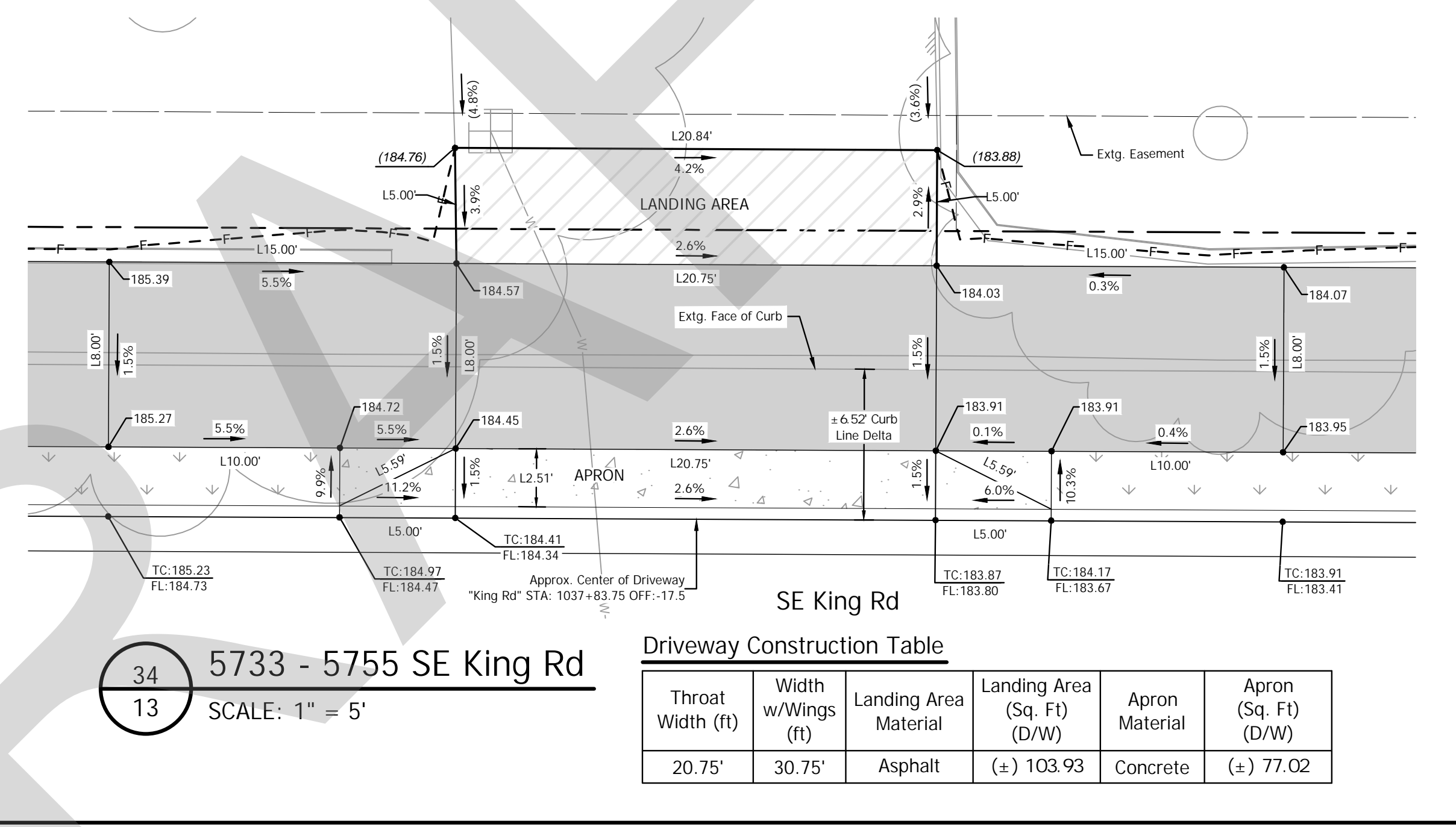
# DRIVeway #  
 # STREET PLAN SHEET #



51  
13  
5800 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

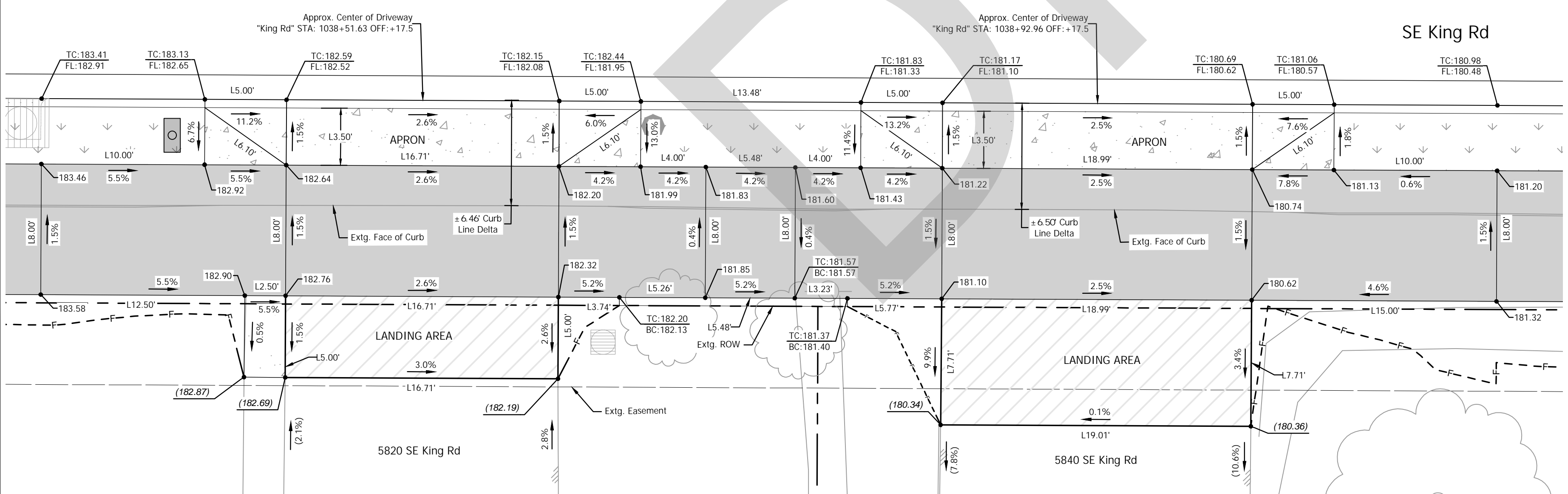
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
16.00'	26.00'	Asphalt	(±) 80.21	Concrete	(±) 56



34  
13  
5733 - 5755 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron (Sq. Ft) (D/W)
20.75'	30.75'	Asphalt	(±) 103.93	Concrete	(±) 77.02



50  
13  
5820 SE King Rd  
SCALE: 1" = 5'

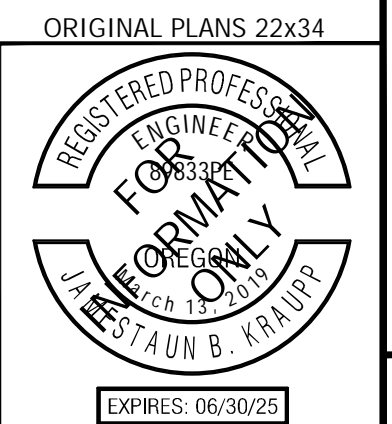
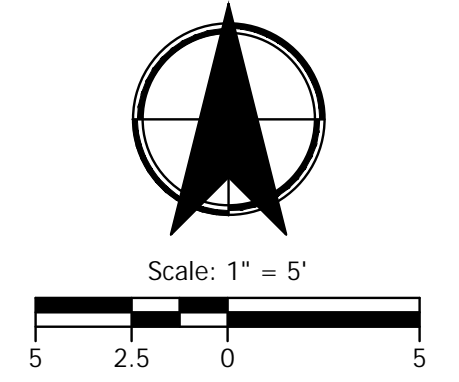
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
16.71'	26.71'	Asphalt	(±) 83.55	Concrete	(±) 93.49

49  
13  
5840 SE King Rd  
SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
18.99'	28.99'	Asphalt	(±) 146.54	Concrete	(±) 101.48



**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.275.8169

**CITY OF MILWAUKIE**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

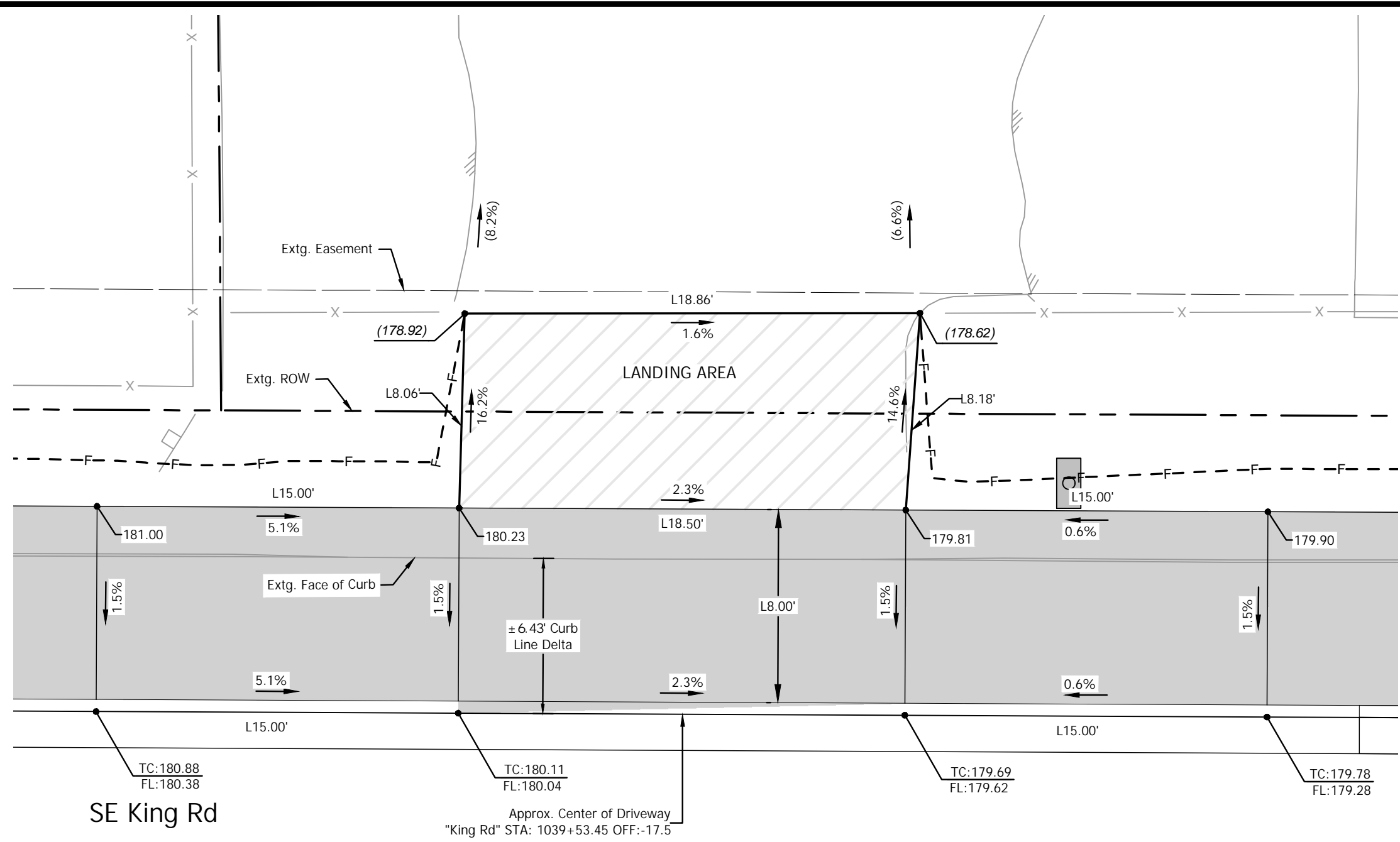
PROJECT NO. C2023-032

SHEET NO. 2E-46

DATE	REVISION	APP'D

Submission Date: November 12, 2024  
 Drawn: DPB  
 Designed: DPB  
 Checked: JBK

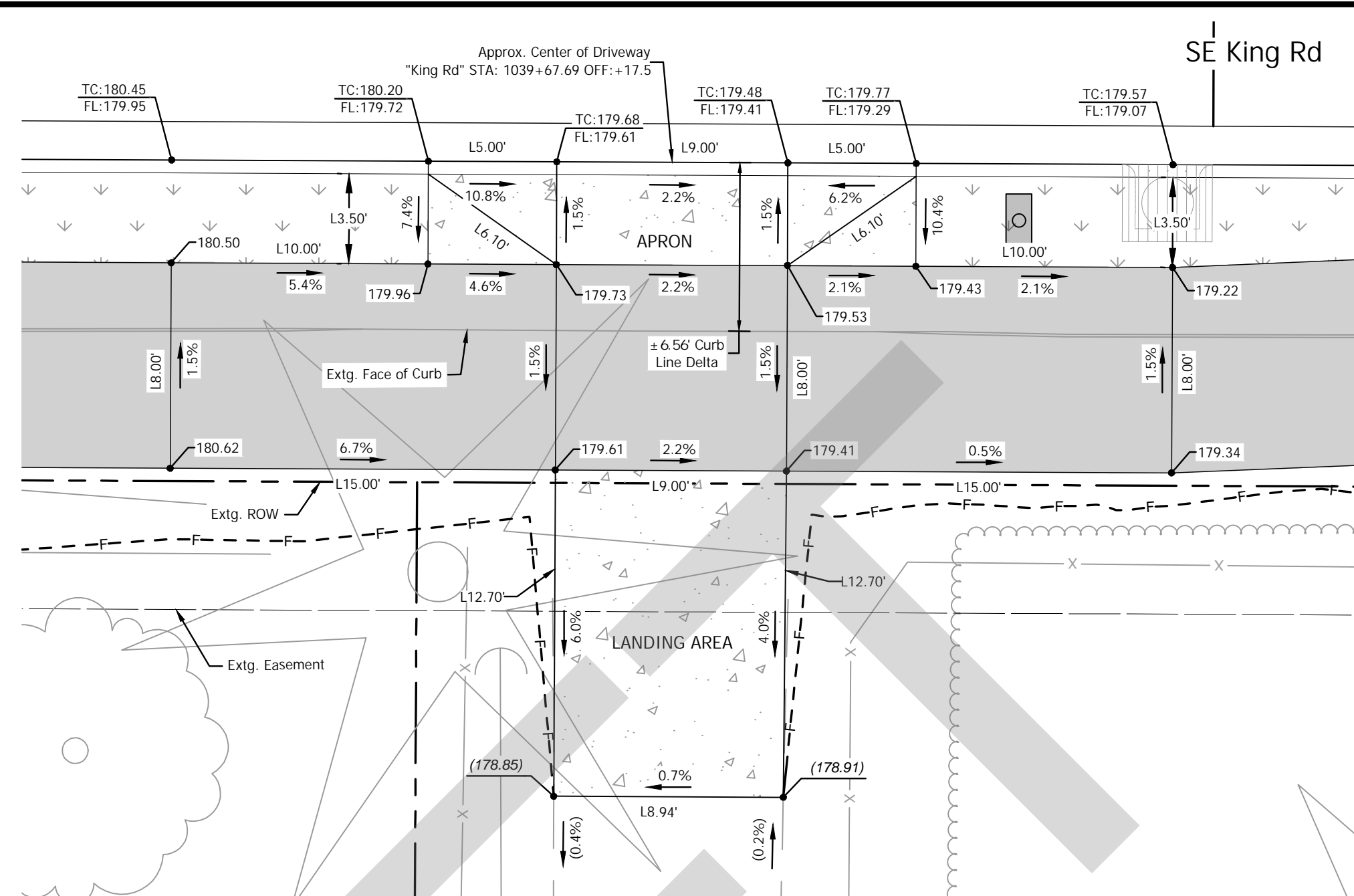
Plot Stamp: 11/12/2024 11:53:53 AM - Jamestaun Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg



36 5815 SE King Rd  
13 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)
18.50'	48.50'	Asphalt	(±) 151.48



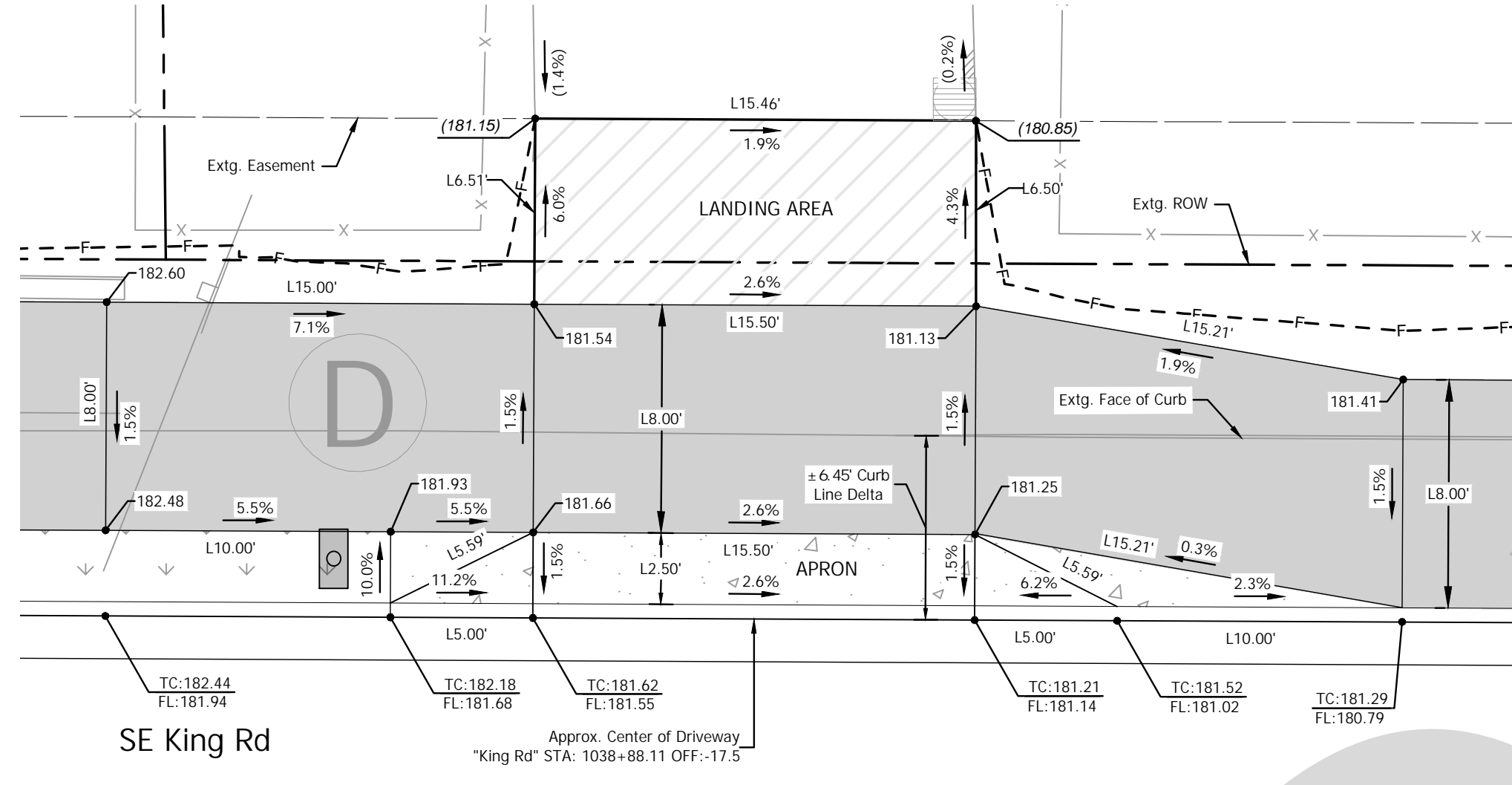
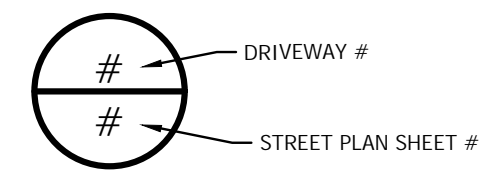
48 5860 SE King Rd  
13 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
9.00'	19.00'	Concrete	(±) 113.93	Concrete	(±) 66.50

LEGEND

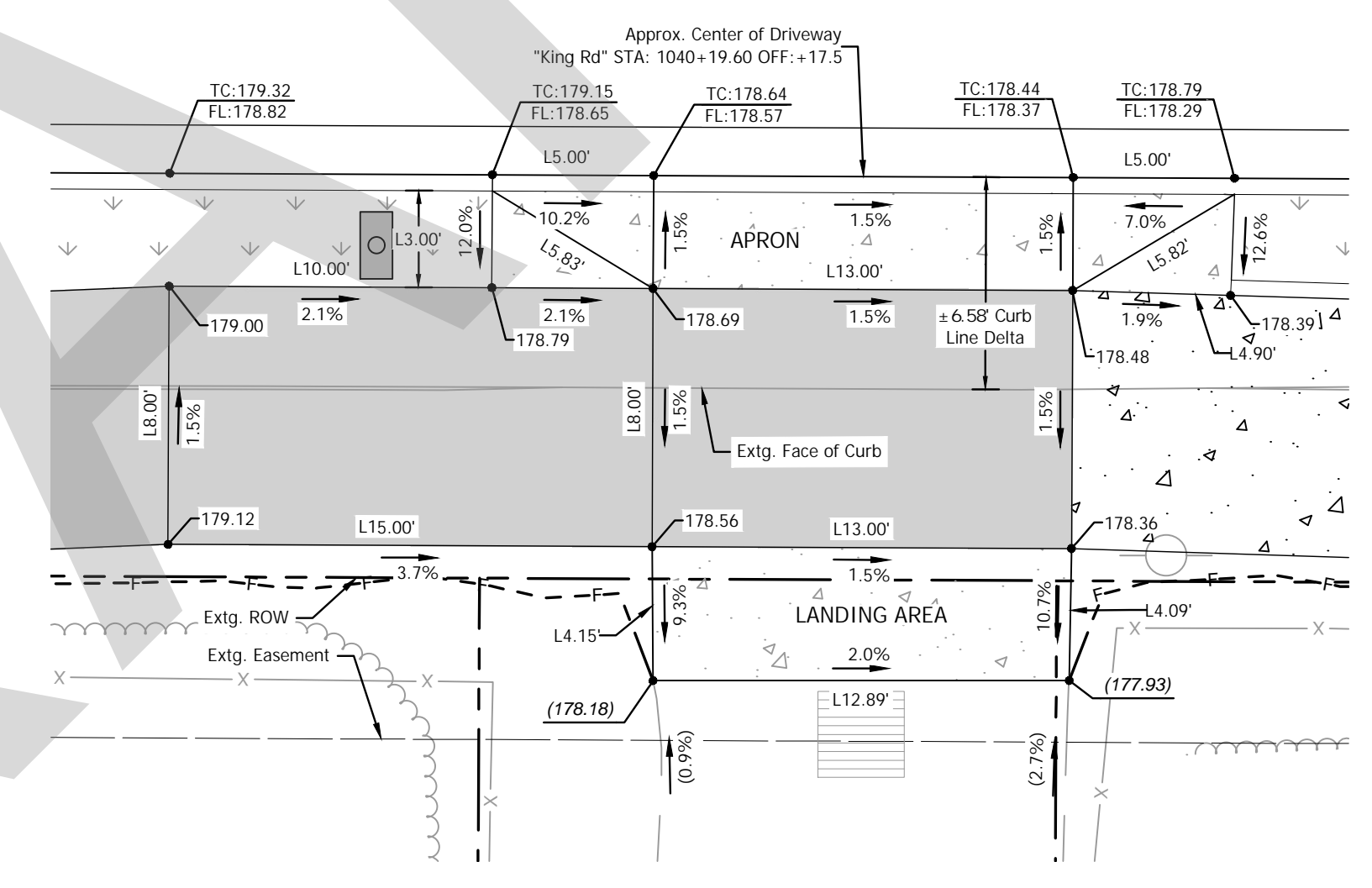
- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
  - CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
  - PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
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CX.XX = CURVE LENGTH  
(XXX.XX) = MATCH EXTG. GRADE  
- = OFFSET LEFT  
+ = OFFSET RIGHT



35 5785 SE King Rd  
13 SCALE: 1" = 5'

Driveway Construction Table

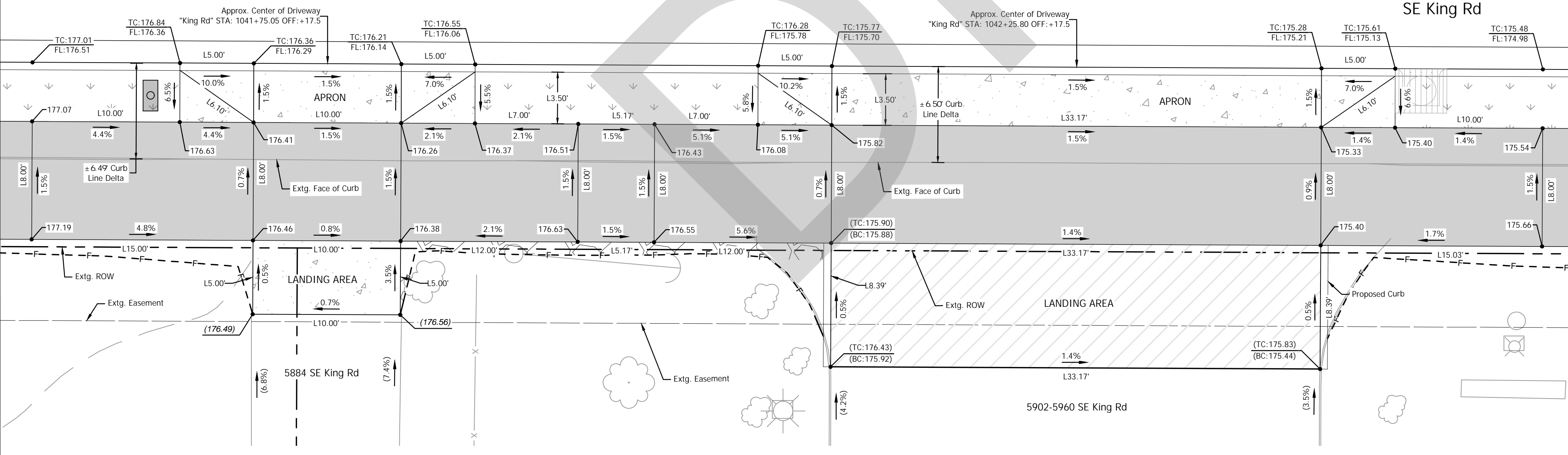
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
15.5'	25.5'	Asphalt	(±) 100.68	Concrete	(±) 70.00



47 5870 SE King Rd  
13 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
13.00'	23.00'	Concrete	(±) 53.56	Concrete	(±) 69.17



46 5884 SE King Rd  
14 SCALE: 1" = 5'

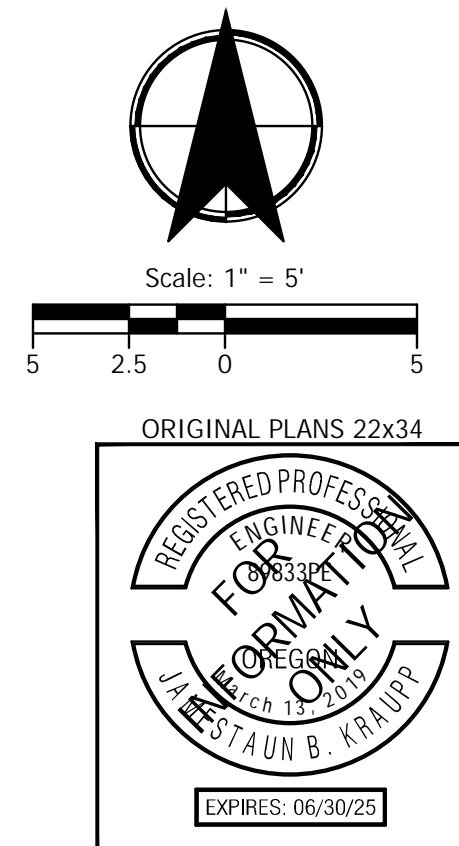
Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
10.00'	20.00'	Concrete	(±) 50.00	Concrete	(±) 69.95

45 5902-5260 SE King Rd  
14 SCALE: 1" = 5'

Driveway Construction Table

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
33.17'	43.17'	Asphalt	(±) 278.13	Concrete	(±) 151.14



CITY OF MILWAUKIE

KITTELSON & ASSOCIATES

851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.275.8169

NO.	DATE	REVISION

SUBMISSION DATE: November 12, 2024

DRAWN: DPB DESIGNED: DPB CHECKED: JBK

PROJECT NO. C2023-032

KING ROAD IMPROVEMENTS  
SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO. 2E-47



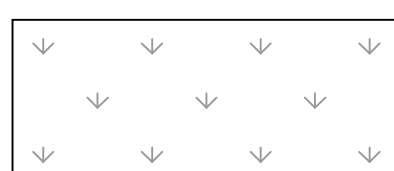
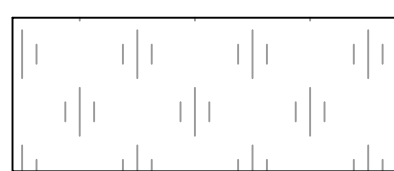

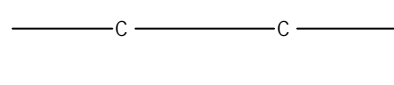
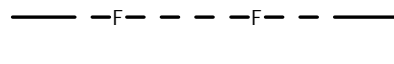
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NO.	DATE	REVISION	APP'D.

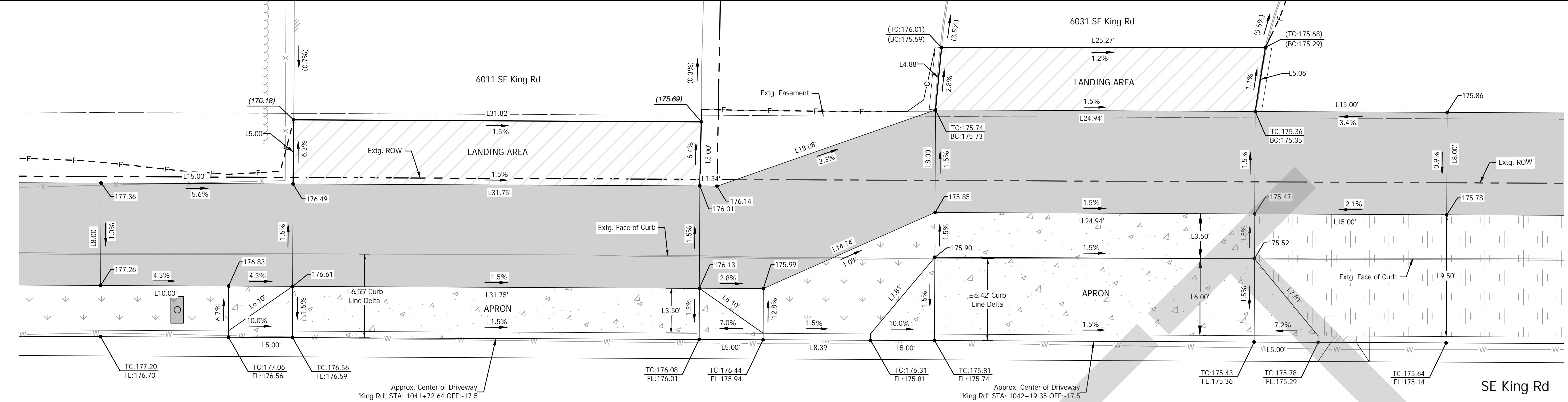
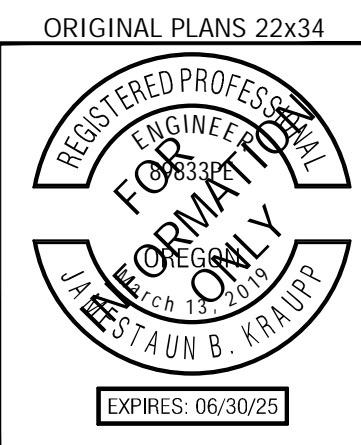
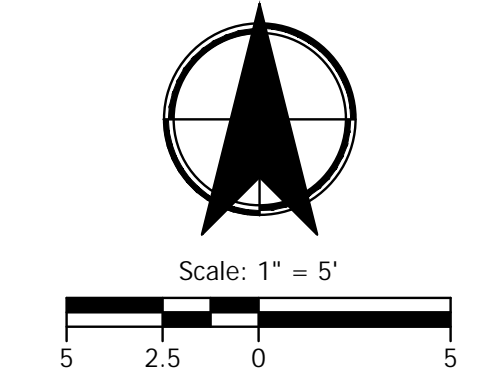
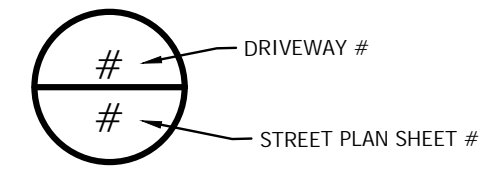
Submission Date: November 12, 2024  
 Drawn: DPB  
 Designed: DPB  
 Checked: JBK  
 PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 DETAILED DRIVEWAY GRADING  
 SHEET NO. 2E-48

**LEGEND**

-  ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
-  CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
-  PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
-  PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
-  POROUS PAVEMENT PATH PER TYPICALS
-  CUT LINE
-  FILL LINE

TC = TOP OF CURB ELEVATION  
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 LX.XX = LINE LENGTH  
 CX.XX = CURVE LENGTH  
 (XXX.XX) = MATCH EXTG. GRADE  
 - = OFFSET LEFT  
 + = OFFSET RIGHT



**37** 6011 SE King Rd  
**14** SCALE: 1" = 5'

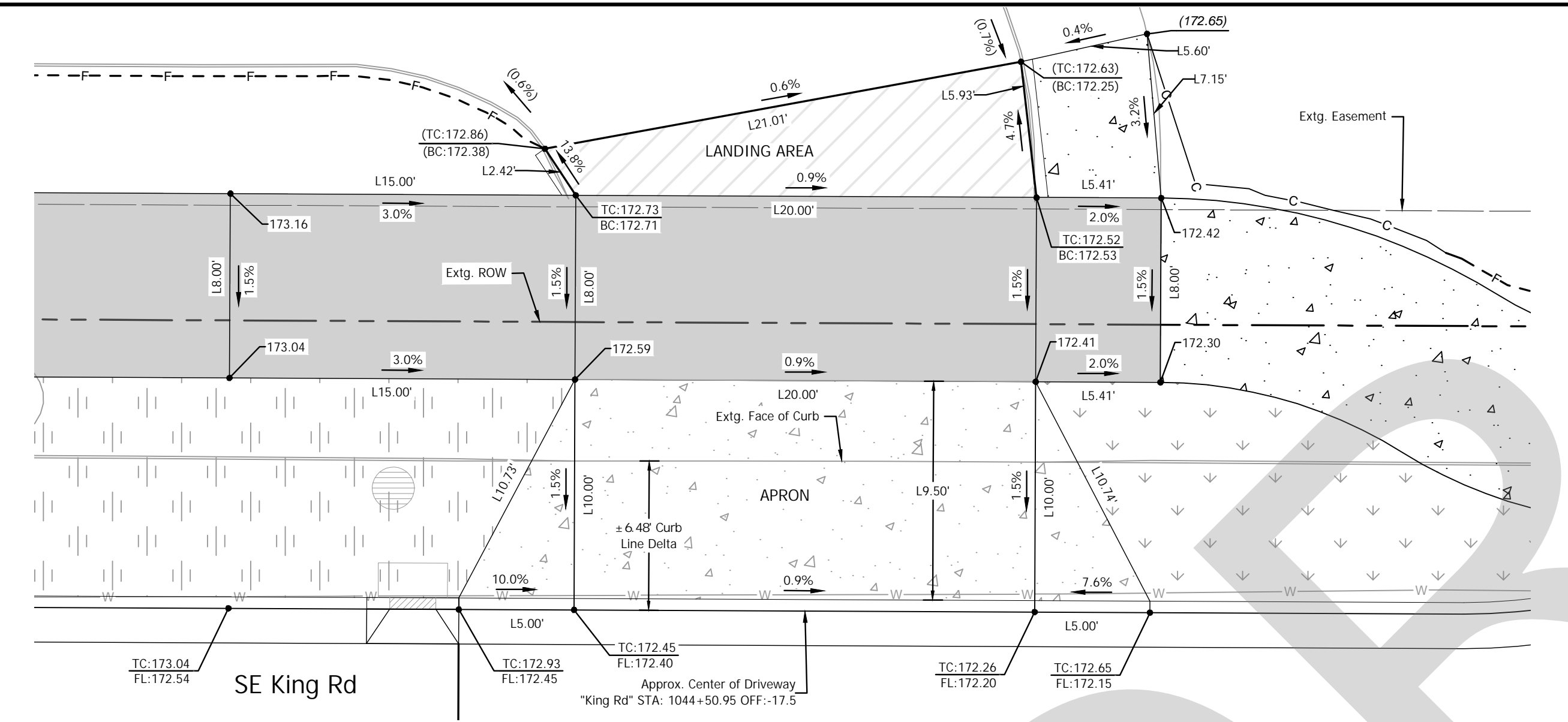
**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
31.75'	41.75'	Asphalt	(±) 158.93	Concrete	(±) 145.77

**38A** 6031 SE King Rd  
**14** SCALE: 1" = 5'

**Driveway Construction Table**

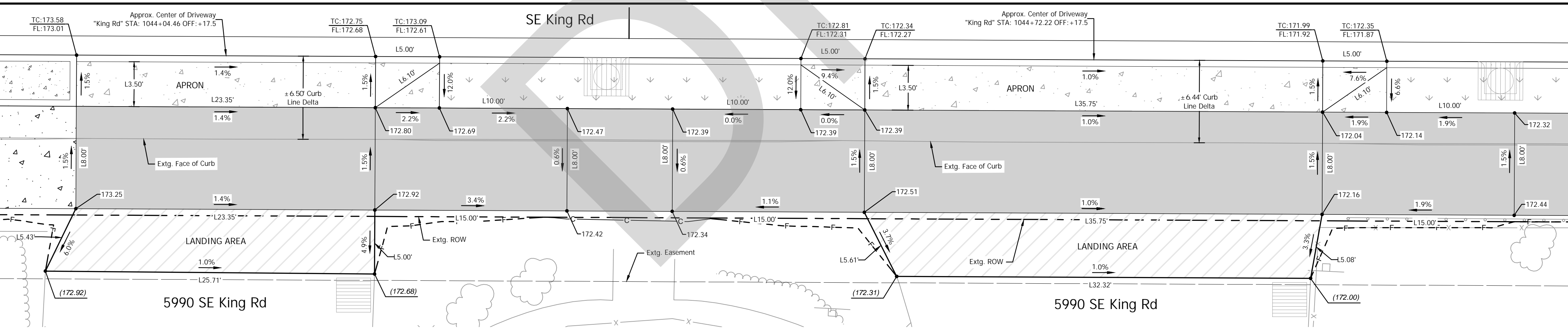
Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
24.94'	34.94'	Asphalt	(±) 123.88	Concrete	(±) 266.74



**38B** 6031 SE King Rd  
**14** SCALE: 1" = 5'

**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
24.94'	34.94'	Asphalt	(±) 82.22	Concrete	(±) 237.54



**44B** 5990 SE King Rd  
**14** SCALE: 1" = 5'

**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
23.35'	28.35'	Asphalt	(±) 121.36	Concrete	(±) 99.22

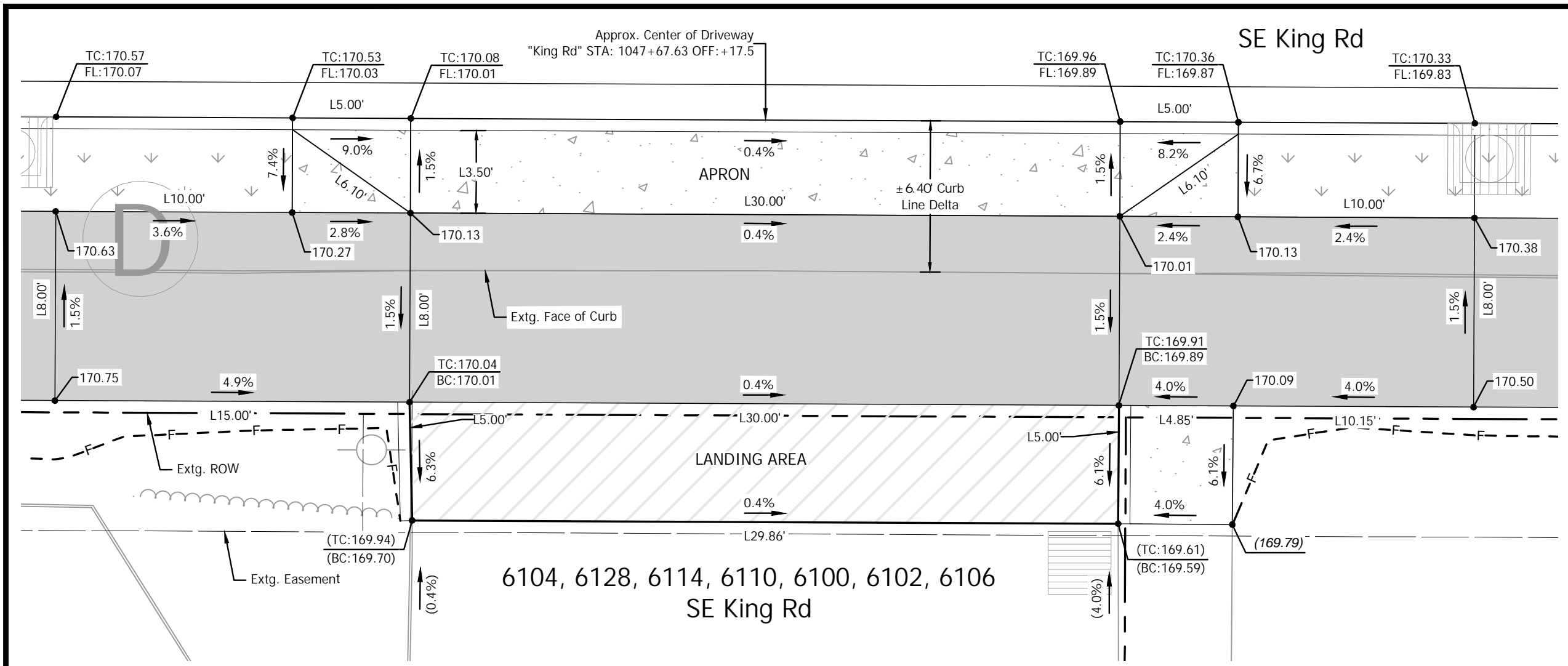
**44A** 5990 SE King Rd  
**14** SCALE: 1" = 5'

**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
35.75'	45.75'	Asphalt	(±) 170.16	Concrete	(±) 160.12

Plot Stamp: 11/12/2024 11:54:46 AM - Jamestaun Kraupp  
 File: H:\28128175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg

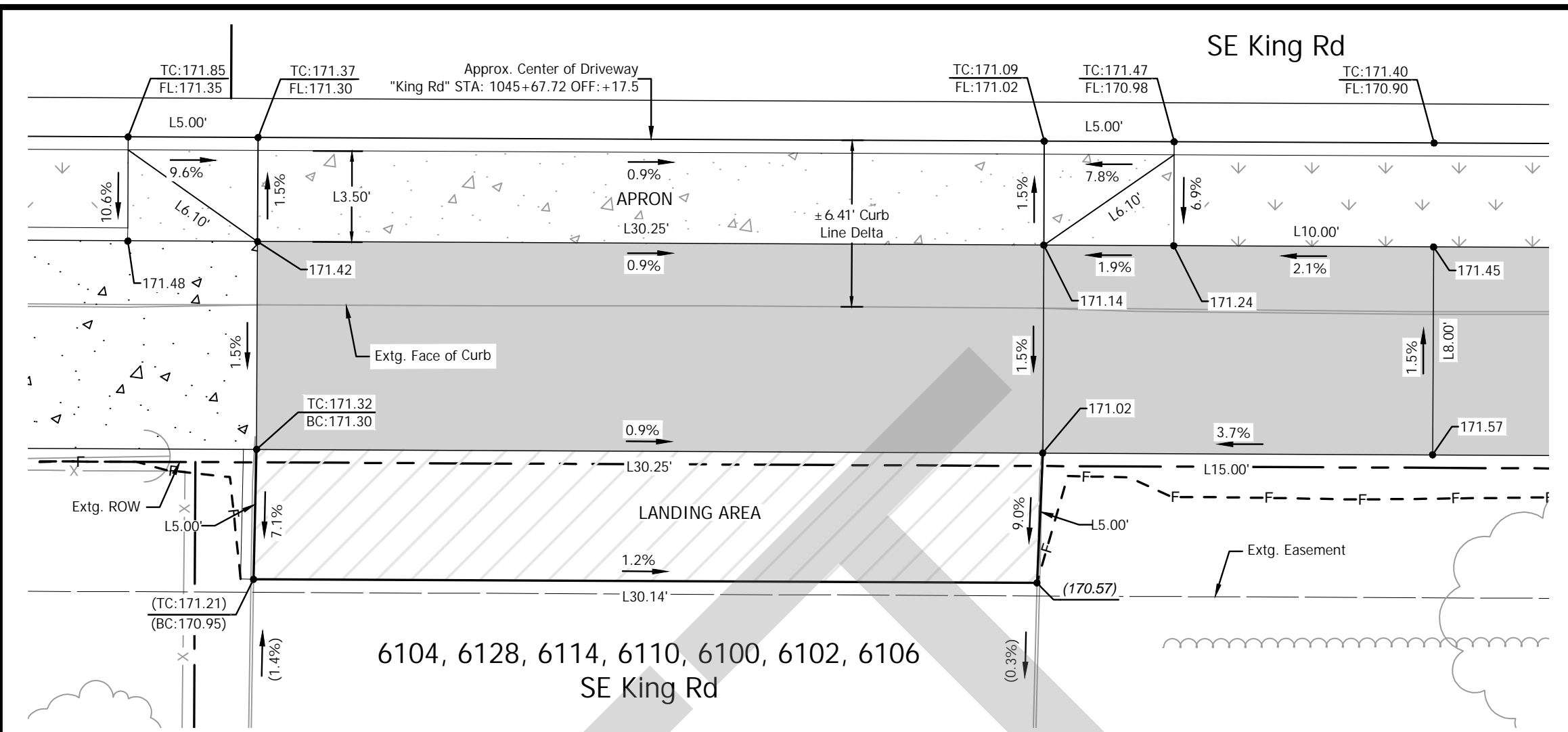
Plot Stamp: 11/12/2024 11:55:17 AM - Jamestown Kraupp  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-2E-Detailed Grading-Driveways-EAST-28175.dwg



**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
30.00'	40.00'	Asphalt	(±) 149.65	Concrete	(±) 139.98

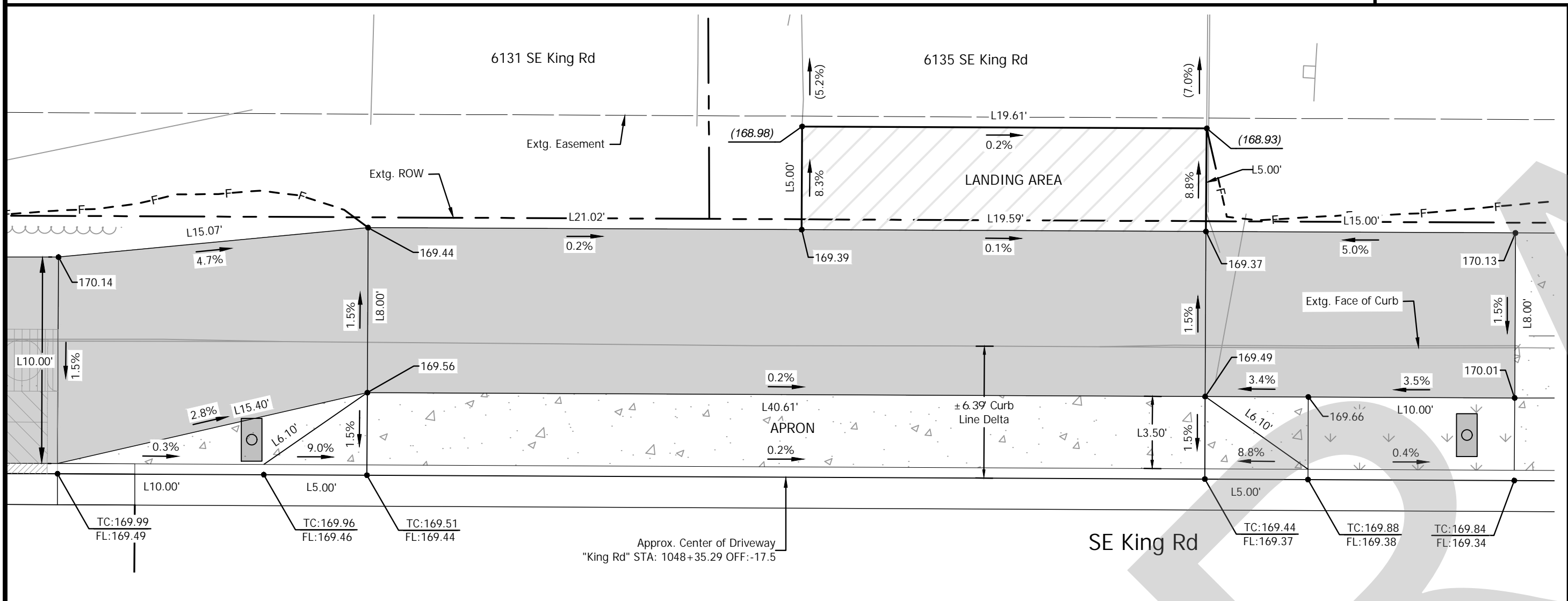
43A 15 6100-6106, 6110, 6114, 6128 SE King Rd  
 SCALE: 1" = 5'



**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
30.25'	40.25'	Asphalt	(±) 150.97	Concrete	(±) 140.85

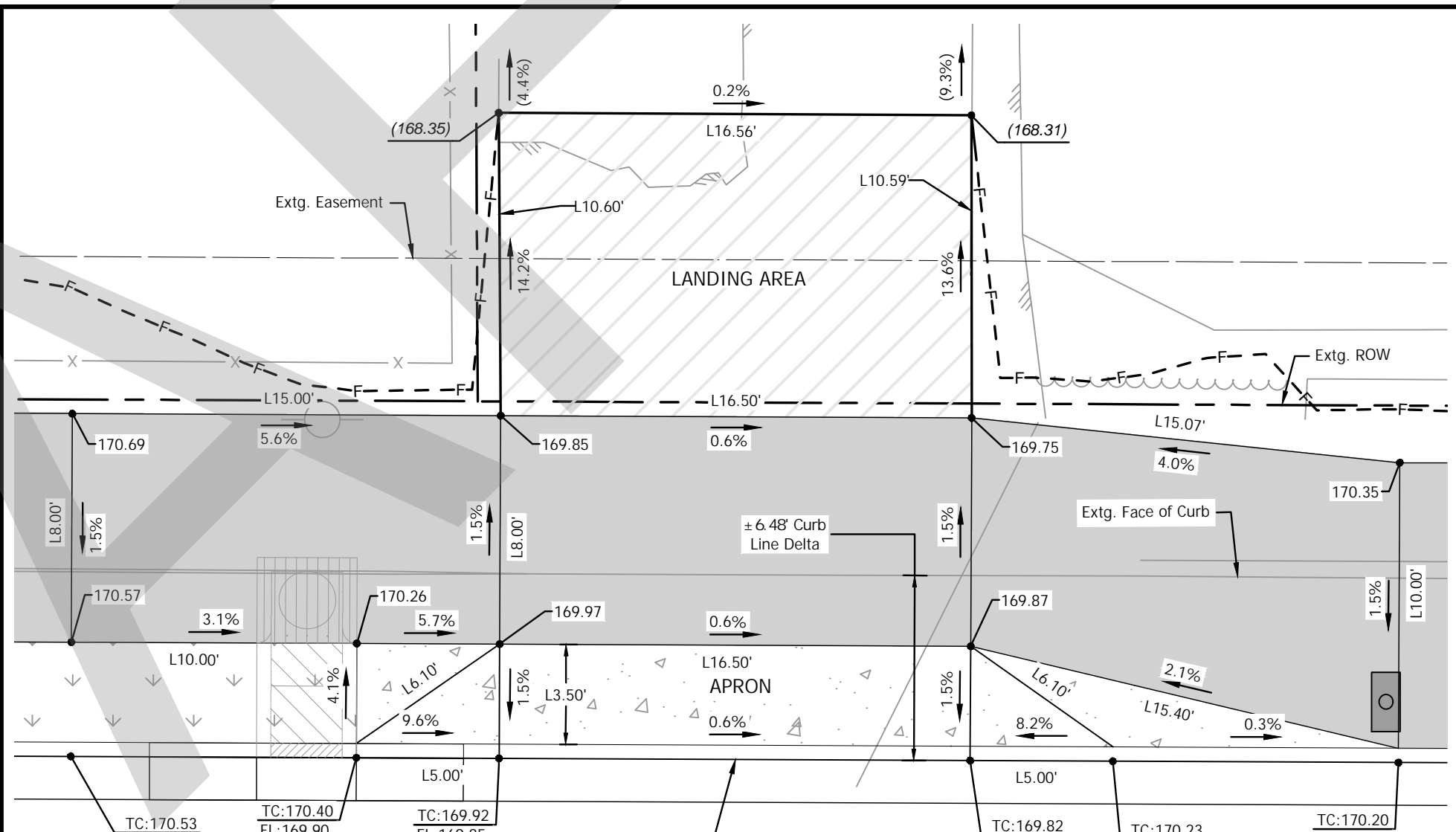
43B 14 6100-6106, 6110, 6114, 6128 SE King Rd  
 SCALE: 1" = 5'



**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
40.61'	50.61'	Asphalt	(±) 98.01	Concrete	(±) 185.89

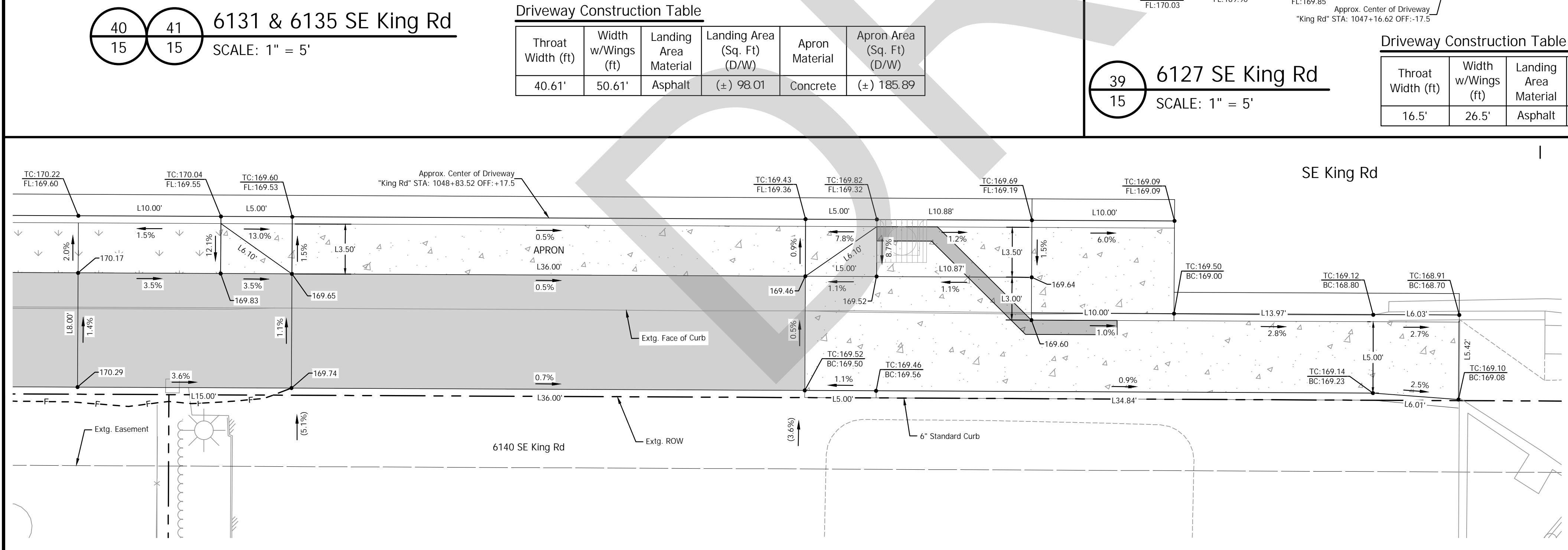
40 15 41 15 6131 & 6135 SE King Rd  
 SCALE: 1" = 5'



**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Landing Area Material	Landing Area (Sq. Ft) (D/W)	Apron Material	Apron Area (Sq. Ft) (D/W)
16.5'	26.5'	Asphalt	(±) 175.14	Concrete	(±) 101.50

39 15 6127 SE King Rd  
 SCALE: 1" = 5'



**Driveway Construction Table**

Throat Width (ft)	Width w/Wings (ft)	Apron Material	Apron Area (Sq. Ft) (D/W)
36.00'	46.00'	Concrete	(±) 160.99

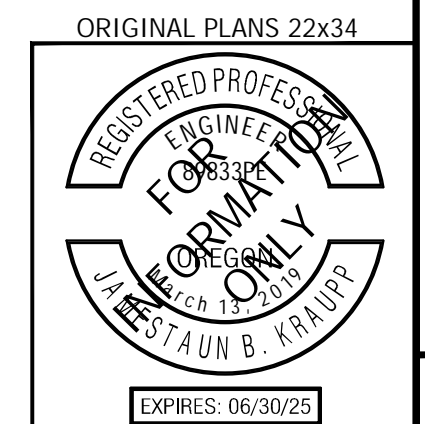
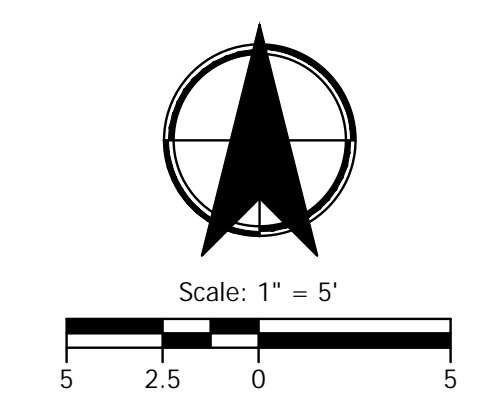
42 15 6140 SE King Rd  
 SCALE: 1" = 5'

**LEGEND**

- ASPHALT DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- CONCRETE DRIVEWAY PER ODOT STD. RD740, SHT. 2B-7
- PROPOSED LANDSCAPE AREA OR SEEDING AREA SEE CONSTR. NOTES
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 (XXX.XX) = MATCH EXTG. GRADE  
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 + = OFFSET RIGHT

DRIVEWAY #  
 STREET PLAN SHEET #



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.275.8169

APPROVED	DATE	REVISION

Submission Date: November 12, 2024  
 Drawn: DPB, Designed: DPB, Checked: JBK

PROJECT NO. C2023-032

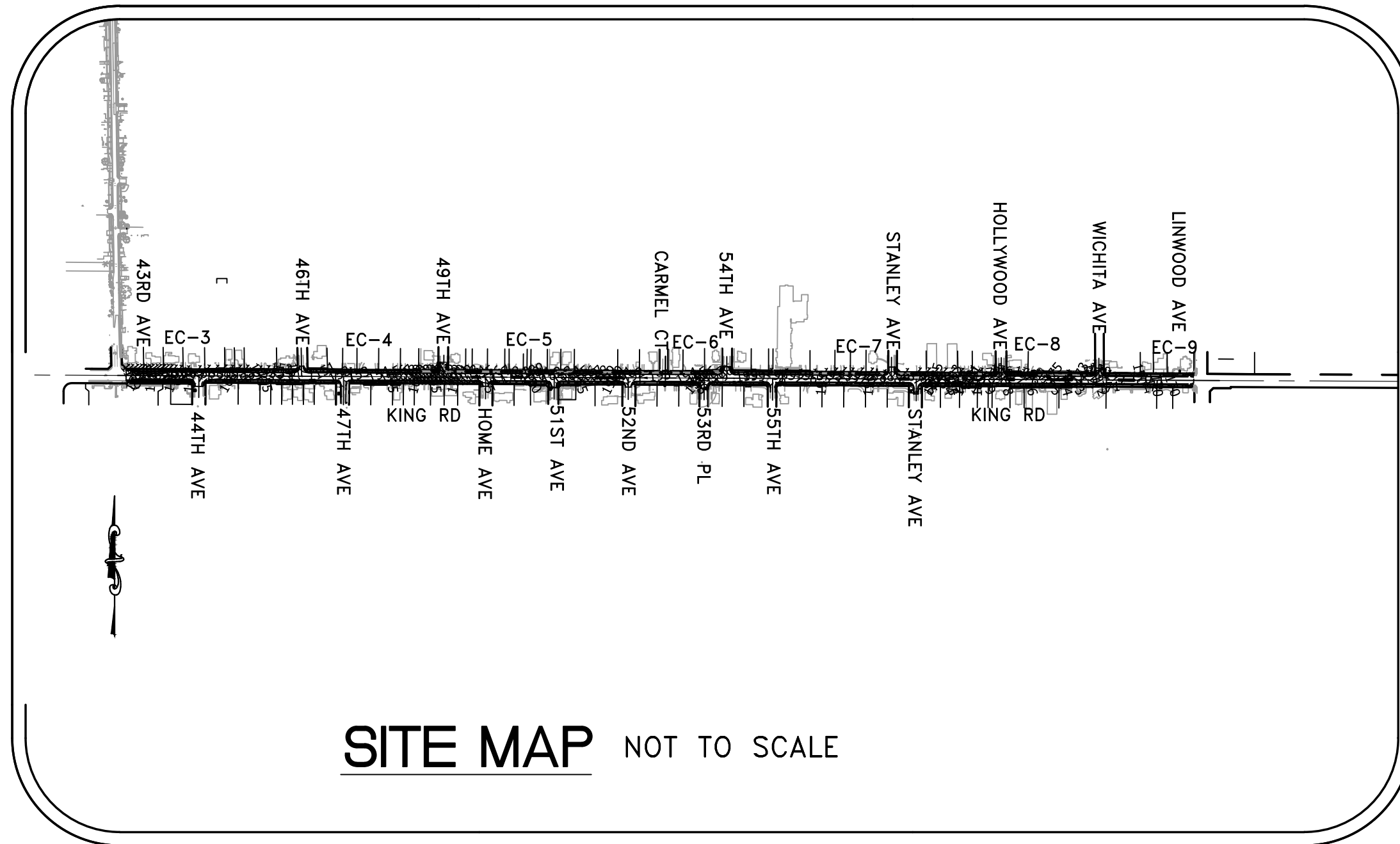
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

DETAILED DRIVEWAY GRADING

SHEET NO. 2E-49



# 1200-CN ESC PLAN FOR SITES 1 TO 5 ACRES



**DEVELOPER**

CITY OF MILWAUKIE  
 CONTACT: JENNIFER GARBELY, PE  
 10501 SE MAIN ST  
 MILWAUKIE, OR 97222  
 503.681.6480  
 GARBELYJ@MILWAUKIEOREGON.GOV

**ENGINEERING FIRM**

KITTELSON & ASSOCIATES, INC.  
 CONTACT: JAMESTAUN KRAUPP, PE  
 851 SW 6TH AVE, SUITE 600  
 PORTLAND, OR 97204  
 503.535.7431  
 JKRAUPP@KITTELSON.COM

**NARRATIVE DESCRIPTIONS**

EXISTING SITE CONDITIONS

- \* PAVEMENT ROADWAY WITH CURBS, PLANTERS, AND SIDEWALKS

DEVELOPED CONDITIONS

- \* PAVEMENT ROADWAY WITH SHARED USE PATH, CURBS, PLANTERS, AND SIDEWALKS.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

- \* CLEARING (DATES, FROM & TO: JUNE 2025 – JULY 2025)
- \* MASS GRADING (DATES, FROM & TO: JULY 2025 – DECEMBER 2025)
- \* UTILITY INSTALLATION (DATES, FROM & TO: DECEMBER 2025 – MARCH 2026)
- \* STREET CONSTRUCTION (DATES, FROM & TO: APRIL 2026 – AUGUST 2026)
- \* FINAL STABILIZATION (DATES, FROM & TO: SEPTEMBER 2026)

TOTAL SITE AREA = ±394,836 SF = ±9.1 ACRES

TOTAL DISTURBED AREA = ±394,836 SF = ±9.1 ACRES

SITE SOIL CLASSIFICATION:

ON-SITE SOILS HAVE A MODERATE TO HIGH EROSION POTENTIAL. ALL FILL MATERIAL SHALL BE GENERATED ON-SITE FROM GRADING EXCAVATION AND UTILITY TRENCH SPOILS.

RECEIVING WATER BODIES:

NEAREST WATER BODY: JACKSON BOTTOM WETLANDS

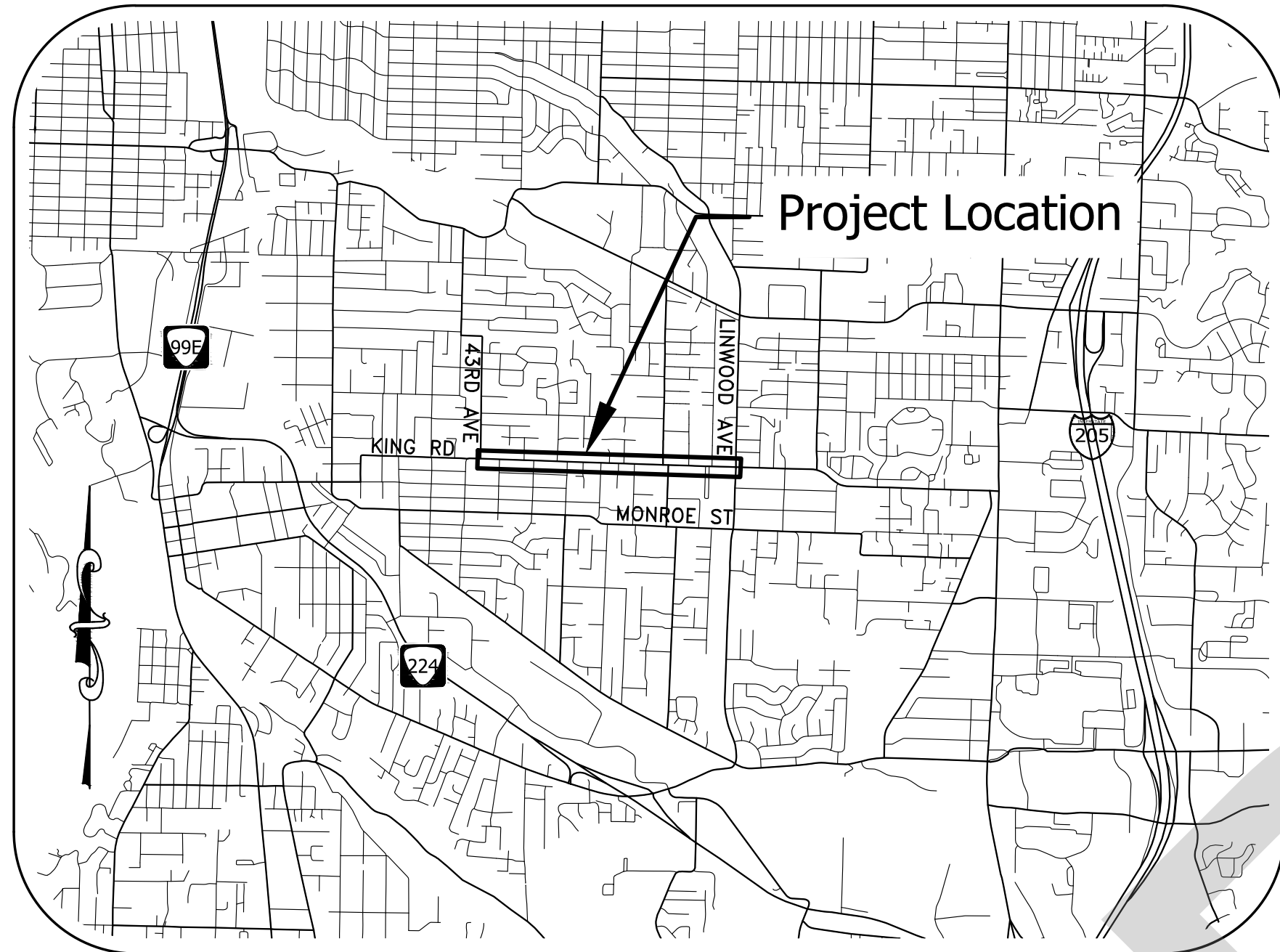
RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

**PERMITTEE'S SITE INSPECTOR:**

COMPANY/AGENCY: City of Milwaukie  
 PHONE: \_\_\_\_\_  
 FAX: \_\_\_\_\_  
 E-MAIL: \_\_\_\_\_  
 DESCRIPTION OF EXPERIENCE: \_\_\_\_\_

INITIAL



**PROJECT LOCATION:**

CITY OF MILWAUKIE  
 CLACKAMAS COUNTY, OREGON  
 LATITUDE = 45.448030°, LONGITUDE = -122.618436°

**PROPERTY DESCRIPTION:**

PUBLIC RIGHT-OF-WAY ALONG  
 SE KING RD FROM SE 43RD AVE TO SE LINWOOD AVE

**ATTENTION EXCAVATORS:**

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

**SHEET INDEX**

- EC-1 EROSION AND SEDIMENT CONTROL COVER SHEET
- EC-2 GRADING AND EROSION CONTROL NOTES
- EC-3 THRU EC-9 GRADING, RUNOFF, AND EROSION CONTROL PLANS
- EC-10 EROSION CONTROL STANDARD DETAILS



CITY OF MILWAUKIE

**KITTELSON & ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

REVISION	DATE	#

Submission Date: November 12, 2024  
 Drawn: DPB    Designed: DPB    Checked: JBK

PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

EROSION CONTROL COVER SHEET

SHEET NO. EC-1

Plot Stamp: 11/11/2024 3:07:08 PM - Allison Winter  
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**ENVIRONMENTAL & EROSION CONTROL:**

1. ALL EROSION PREVENTION MEASURES SHALL BE IN PLACE, FUNCTIONAL, AND APPROVED IN ACCORDANCE WITH THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL SOIL DISTURBING AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH MMC CHAPTER 16.28 EROSION CONTROL AND ANY APPLICABLE LOCAL, STATE OR FEDERAL REQUIREMENTS.
2. ALTERNATIVE SEDIMENT CONTROLS MUST PROVIDE A DISCHARGE THAT IS CLEAN AND FREE OF SEDIMENT, SURFACTANTS, AND OTHER POLLUTANTS PRIOR TO ENTERING THE STORM SYSTEM. APPROVAL OF ALTERNATIVE SEDIMENT CONTROLS BY THE CITY OF MILWAUKIE WASTEWATER DIVISION MANAGER IS REQUIRED PRIOR TO INSTALLATION.
3. WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES SHALL BE DEVELOPED, MAINTAINED, AND IMPLEMENTED ON THE CONSTRUCTION SITE.
4. DUMPING OR DISPOSAL OF SPOIL MATERIALS INTO ANY STREAM CORRIDOR, WETLANDS, SURFACE WATERS OR ON ANY PUBLIC OR PRIVATE PROPERTY NOT SPECIFIED FOR SAID PURPOSE IS PROHIBITED.
5. SEDIMENT AND POLLUTANTS SHALL NOT BE WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES AND IS SUBJECT TO MMC 13.14.105 (STORMWATER DISCHARGE REGULATIONS) . DRY SWEEPING SHALL BE IMPLEMENTED TO CLEAN UP CONSTRUCTION AREAS TO PREVENT RELEASE OF SEDIMENTS INTO THE STORM SYSTEM.
6. DISPOSAL OF SEDIMENT LADEN WATER INTO THE WASTEWATER SYSTEM IS PROHIBITED, UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE CITY OF MILWAUKIE WASTEWATER DIVISION MANAGER. SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH AN APPROVED SEDIMENT CONTROL BMP PRIOR TO DISPOSAL INTO THE WASTEWATER SYSTEM.
7. SAWCUTTING SLURRY AND DEBRIS SHALL BE VACUUMED AND REMOVED FROM ALL IMPERVIOUS SURFACES. VACUUMED SAWCUTTING SLURRY SHALL BE PROPERLY DISPOSED OF AND NOT DISCHARGED INTO THE STORM SYSTEM.
8. WATER TIGHT TRUCKS SHALL BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE.
9. TEMPORARY STABILIZATION AND COVERING OF SOIL STOCKPILES SHALL OCCUR AT THE END OF EACH WORK DAY.
10. ALL TOXIC OR HAZARDOUS MATERIALS SHALL BE PROPERLY STORED, APPLIED, AND DISPOSED.
11. AN AREA SHALL BE DESIGNATED FOR WASHING OUT CONCRETE TRUCKS SUCH THAT RUNOFF FROM WASHING ACTIVITIES ARE CONTAINED AND DO NOT LEAVE THE SITE OR ENTER THE STORM SYSTEM.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE WASHED TO THE STREET OR STORM SYSTEM. SWEEPINGS SHALL BE COLLECTED AND PROPERLY DISPOSED OF IN THE TRASH.
13. PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUNOFF INTO THE STORM SYSTEM IS PROHIBITED.
14. TRACKING OF DIRT AND DEBRIS ONTO IMPERVIOUS SURFACES, SUCH AS STREETS AND PARKING LOTS, IS PROHIBITED. IMPERVIOUS SURFACES SHALL BE KEPT FREE OF DIRT AND DEBRIS AT ALL TIMES IF IT CAN BE SPREAD BY TRAFFIC OR CAN ENTER THE STORM SYSTEM.
15. GRAVEL OR DIRT CURB RAMPS ARE PROHIBITED. ONLY WOOD STEP STYLE CURB RAMPS ARE ALLOWED.
16. UPON COMPLETION OF SITE RESTORATION AND APPROVAL FROM THE CITY OF MILWAUKIE ENGINEERING DIRECTOR, ALL TEMPORARY EROSION CONTROL MEASURES MAY BE REMOVED.
17. DRAINAGE FROM SPRINGS OR GROUNDWATER MUST BE ADDRESSED DURING CONSTRUCTION BY THE CONTRACTOR. DISCHARGE FROM GROUNDWATER ENCOUNTERED ON THE SITE MUST BE CLEAN OF SEDIMENT OR POLLUTANTS.
18. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCH, OR OTHER APPROVED MEASURES.
19. DATES OF IMPLEMENTATION OF WET WEATHER MEASURES ARE OCTOBER 1ST TO MAY 31ST.

20. MATERIALS SHALL NOT BE STOCKPILED ON PUBLIC STREETS OR IN THE RIGHT OF WAY FOR LONGER THAN IMMEDIATE USE.
21. EFFECTIVE DRAINAGE CONTROL IS REQUIRED.
22. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER, THE PROJECT ENGINEER SHALL DIRECT THE CONTRACTOR TO TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE.
23. ALL EXISTING INLETS TO BE REMOVED SHALL BE PROTECTED FROM SEDIMENT LADEN WATER UNTIL THE INLET IS REMOVED.
24. STAGING TO BE DONE WITHIN PUBLIC ROW OR APPROVED ALTERNATE.
25. NO STOCK PILING WITHIN STAGING AREAS WITHOUT CONTRACTOR SUPPLIED EROSION CONTROL PLAN.
26. SEE LANDSCAPING PLANS FOR INFORMATION ON PROPOSED CONDITIONS FOR DISTURBED AREAS.
27. CONCRETE WASHOUT LOCATIONS TO BE DETERMINED IN FIELD BY CONTRACTOR.
28. OWNER/PERMITTEE IS RESPONSIBLE FOR MONITORING, MAINTAINING, AND REPAIRING ALL EROSION CONTROL MEASURES AS SITE CONDITIONS CHANGE.
29. ALL STORMWATER INLETS MUST BE PROTECTED, MEASURES MAINTAINED, AND SEDIMENT/DEBRIS CLEANED FROM THE AREA AS NECESSARY.
30. ANY MEASURES DEEMED INADEQUATE BY THE INSPECTOR OR SITES THAT HAVE THE POTENTIAL TO THREATEN THE WATER QUALITY OF THE CITY'S STORMWATER SYSTEM SHALL BE RECTIFIED BY THE CONTRACTOR UPON NOTICE.
31. GRAVEL CONSTRUCTION ENTRANCES MUST BE INSTALLED AT THE START OF THE PROJECT TO PREVENT TRACKING AND FOR INITIAL INSPECTION APPROVAL. GRAVEL OR DIRT CURB JUMPS ARE NOT ALLOWED (USE WOODEN STEP STYLE).
32. SEDIMENT FENCES MUST BE TRENCHED IN AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS DEMONSTRATED IN THE TECHNICAL GUIDANCE HANDBOOK. SEDIMENT FENCING MUST BE OF STITCHEDLOOP DESIGN FOR EROSION CONTROL APPROVAL. STAKE POCKETS MUST FACE UPSLOPE OR TOWARD PROJECT. REFER TO DETAIL DRAWING #4-15. STAPLED FENCING WILL NOT RECEIVE APPROVAL.
33. STOCKPILES WITH POTENTIAL FOR RUNOFF REACHING THE STORMWATER SYSTEM MUST BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. TEMPORARY STABILIZATION AND COVERING OF SOIL STOCKPILES SHALL OCCUR AT THE END OF EACH WORKDAY.
34. WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES SHALL BE DEVELOPED, MAINTAINED, AND IMPLEMENTED ON THE CONSTRUCTION SITE.
35. CONTRACTOR SHALL INSTALL, UTILIZE, AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE EROSION PREVENTION & SEDIMENT CONTROL PLAN.
36. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER, THE PROJECT ENGINEER SHALL DIRECT THE CONTRACTOR TO TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE.

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851 SW 6TH AVENUE, SUITE 600  
PORTLAND, OR 97204  
P 503.228.5230 F 503.273.8169

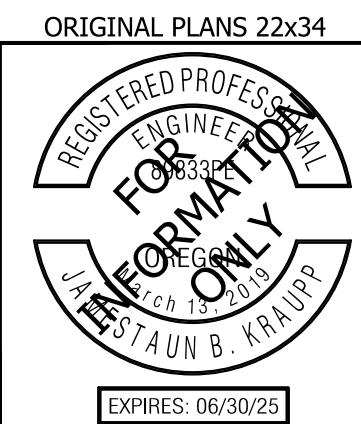
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**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

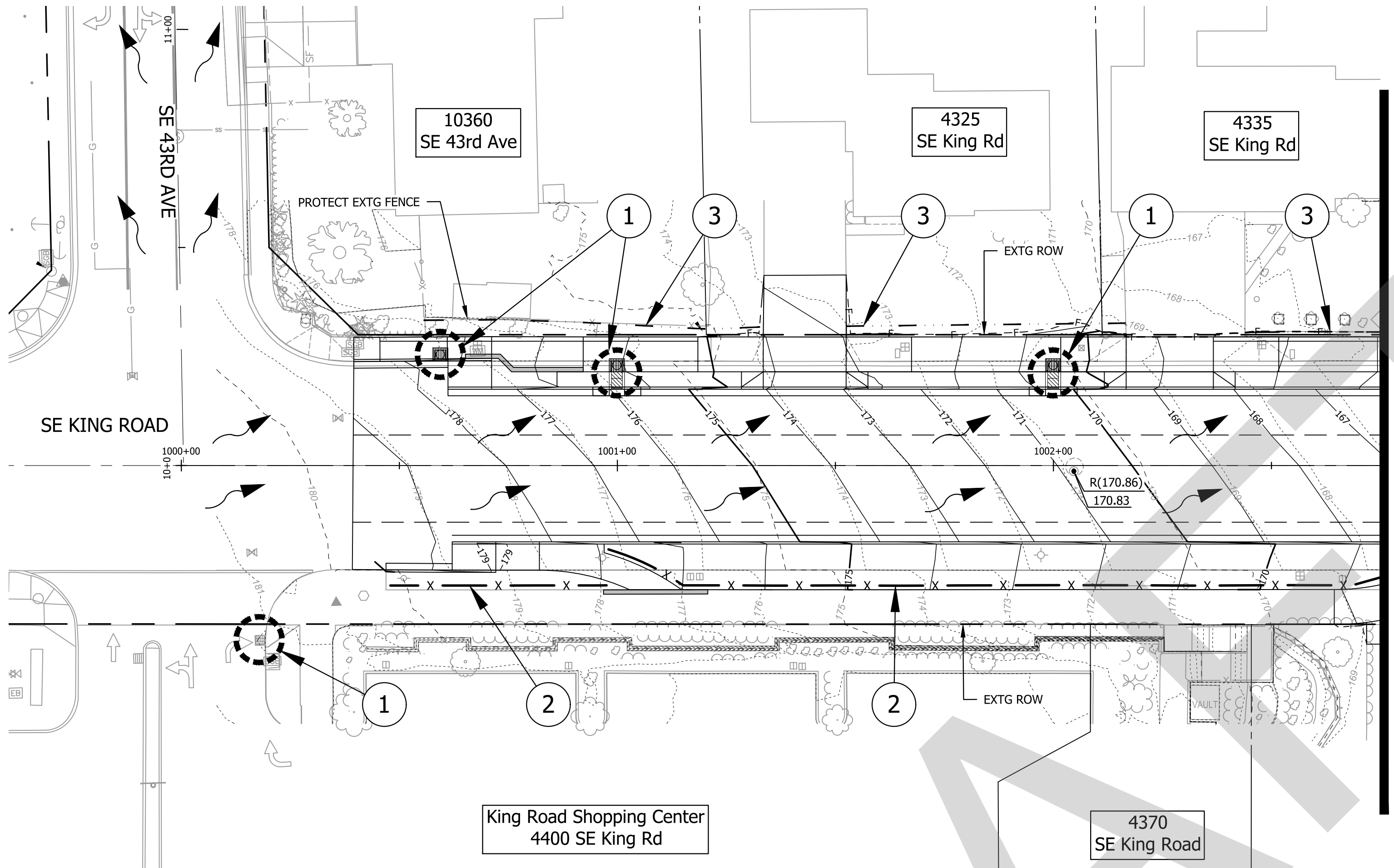
EROSION CONTROL NOTES

SHEET NO.  
EC-2

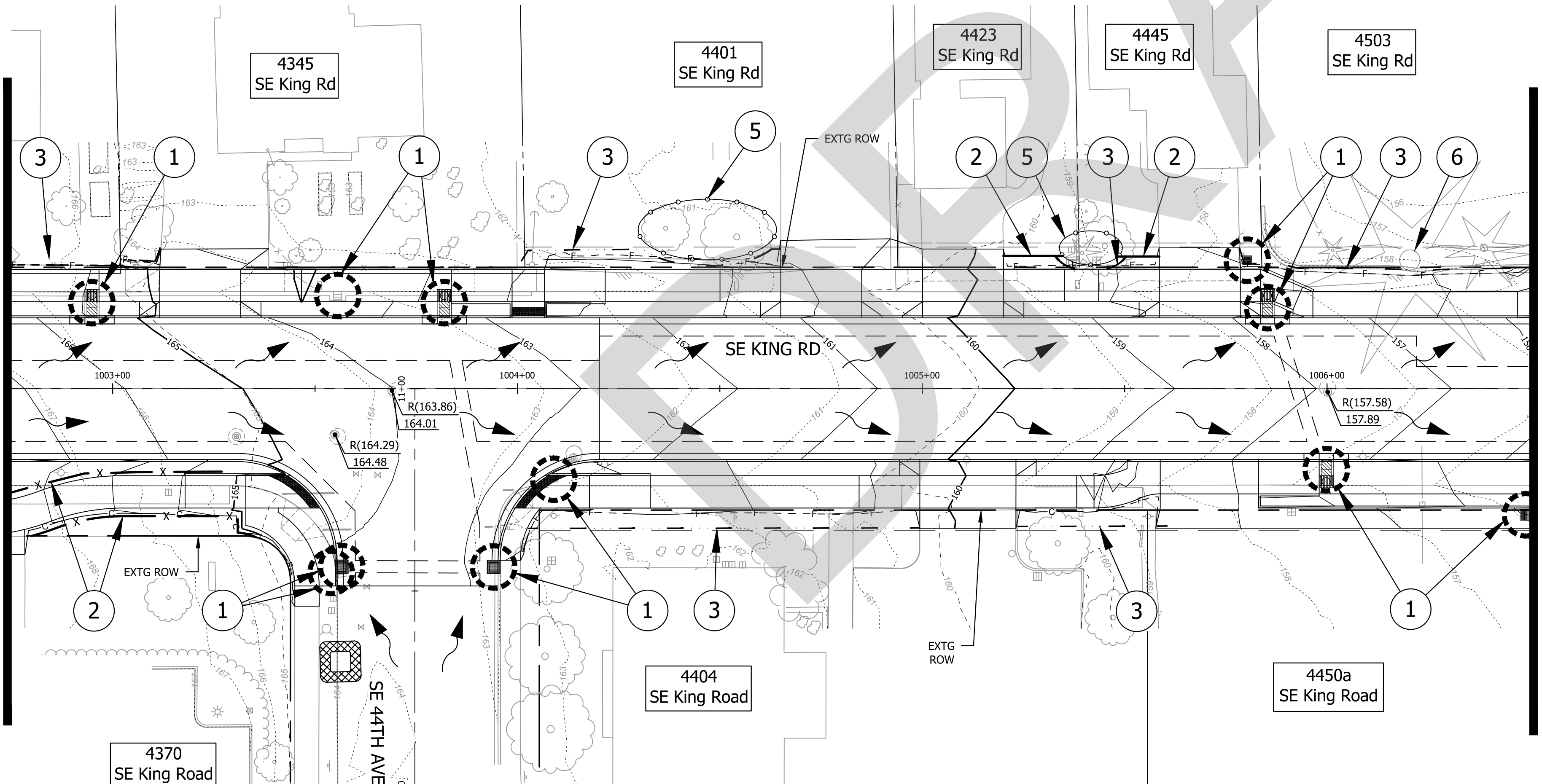


ORIGINAL PLANS 22x34

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MATCH LINE - STA: 1002+75  
 SEE BELOW



MATCH LINE - STA: 1002+75  
 SEE ABOVE

MATCH LINE - STA: 1006+50  
 SEE SHEET EC-4

**PRE-CONSTRUCTION NOTES**

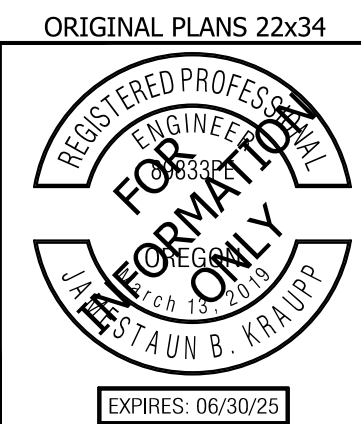
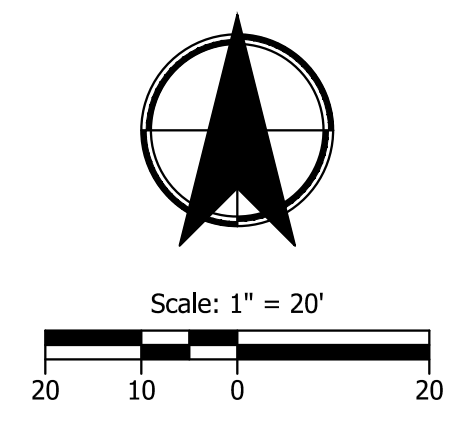
1. ALL BASE EROSION SEDIMENT CONTROL MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE COMPOST SOCK, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. TREE PROTECTION FENCING SHALL BE 4' TALL ORANGE CONSTRUCTION FENCE, SECURED TO 6' TALL METAL POSTS, DRIVEN 2' INTO THE GROUND.

**LEGEND**

- xx — xx — xx — SEDIMENT FENCE
- - - - - COMPOST SOCK
- - - - - COMPOST FILTER BERM
- - - - - EXISTING ROW LINE
- - - - - PROPOSED ROW LINE
- - - - - 250 - EXISTING MAJOR CONTOURS
- - - - - 249 - EXISTING MINOR CONTOURS
- - - - - 250 - PROPOSED MAJOR CONTOURS
- - - - - 249 - PROPOSED MINOR CONTOURS
- FLOW ARROW
- ⊙ ⊙ EXTG./PROPOSED MH  
R(XXX.XX) (EXTG. ELEVATION);  
RXXX.XX PROPOSED ELEVATION
- ▤ ▤ EXTG./PROPOSED CB
- ⊗ ⊗ INLET PROTECTION
- ⊠ CONCRETE WASHOUT FACILITY
- ⊙ ⊙ TREES TO REMAIN AND BE PROTECTED
- ✕ ✕ TREES TO BE REMOVED PER ARBORIST REPORT

**CONSTRUCTION NOTES**

1. INSTALL CURB AND INTERNAL INLET PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
2. INSTALL SEDIMENT FENCE. (FOR DETAILS, SEE SHT. EC-10)
3. INSTALL COMPOST SOCK. (FOR DETAILS, SEE SHT. EC-10)
4. INSTALL COMPOST FILTER BERM. (FOR DETAILS, SEE SHT. EC-10)
5. INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
6. ARBORIST SUPERVISION REQUIRED DURING GRADING AND EXCAVATION ACTIVITIES. IF TREE ROOTS ENCOUNTERED, CONTRACTOR TO USE HAND TOOLS.



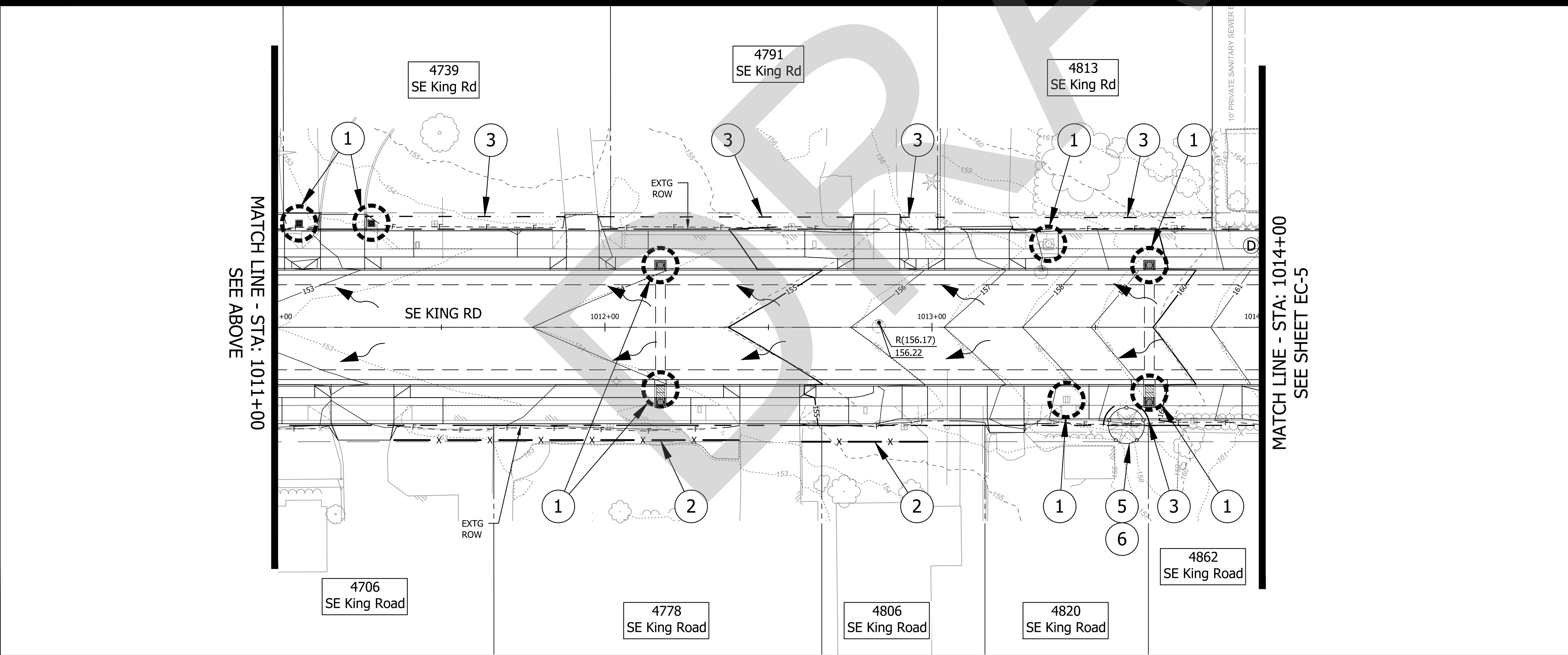
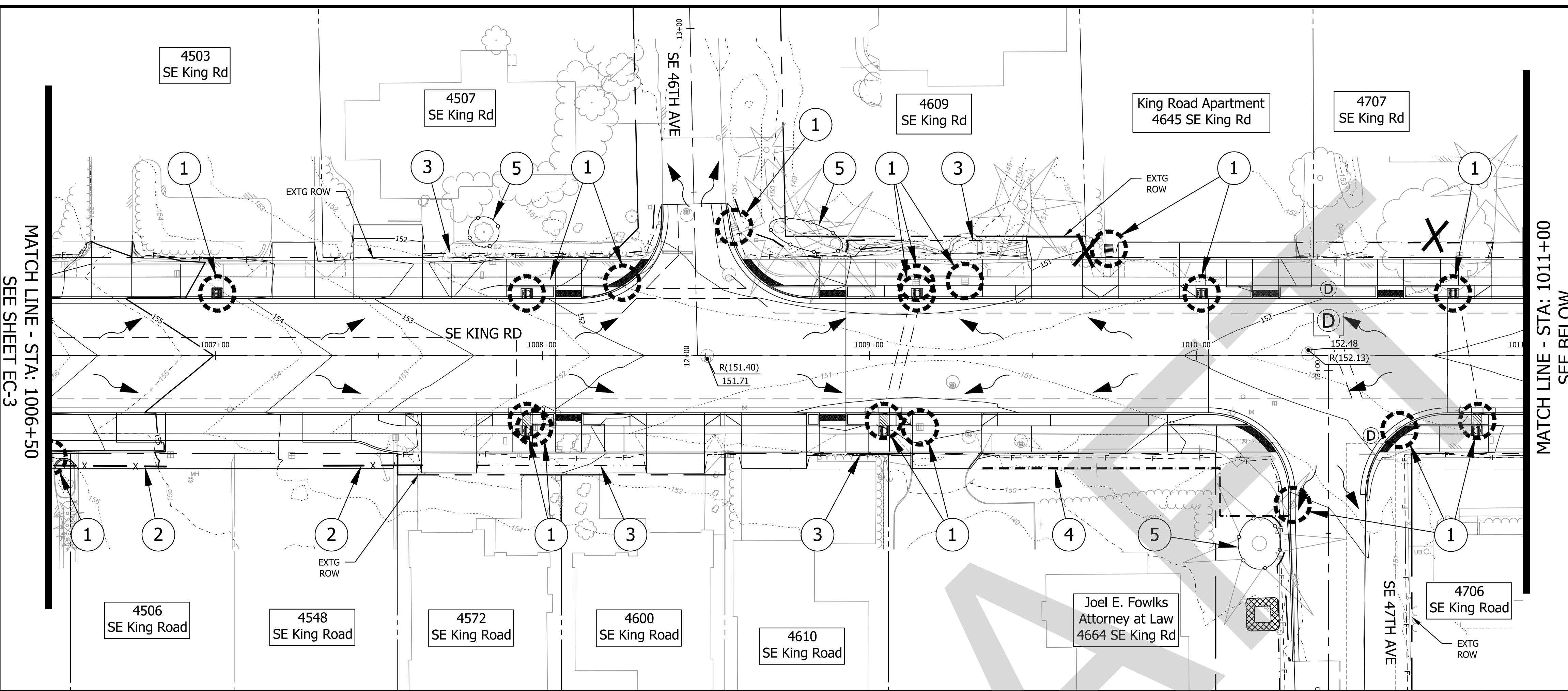
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**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 EROSION CONTROL PLANS  
 SHEET NO. EC-3

Plot Stamp: 11/11/2024 3:07:25 PM - Allison Winter  
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**PRE-CONSTRUCTION NOTES**

1. ALL BASE EROSION SEDIMENT CONTROL MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
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4. TREE PROTECTION FENCING SHALL BE 4' TALL ORANGE CONSTRUCTION FENCE, SECURED TO 6' TALL METAL POSTS, DRIVEN 2' INTO THE GROUND.

**LEGEND**

- xx — xx — xx — SEDIMENT FENCE
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R(XXX.XX) (EXTG. ELEVATION);  
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- ⊘ ⊘ INLET PROTECTION
- ▣ CONCRETE WASHOUT FACILITY
- ⊙ ⊙ TREES TO REMAIN AND BE PROTECTED
- ✕ ✕ TREES TO BE REMOVED PER ARBORIST REPORT

**CONSTRUCTION NOTES**

1. INSTALL CURB AND INTERNAL INLET PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
2. INSTALL SEDIMENT FENCE. (FOR DETAILS, SEE SHT. EC-10)
3. INSTALL COMPOST SOCK. (FOR DETAILS, SEE SHT. EC-10)
4. INSTALL COMPOST FILTER BERM. (FOR DETAILS, SEE SHT. EC-10)
5. INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
6. ARBORIST SUPERVISION REQUIRED DURING GRADING AND EXCAVATION ACTIVITIES. IF TREE ROOTS ENCOUNTERED, CONTRACTOR TO USE HAND TOOLS.

Scale: 1" = 20'

ORIGINAL PLANS 22x34

EXPIRES: 06/30/25

**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

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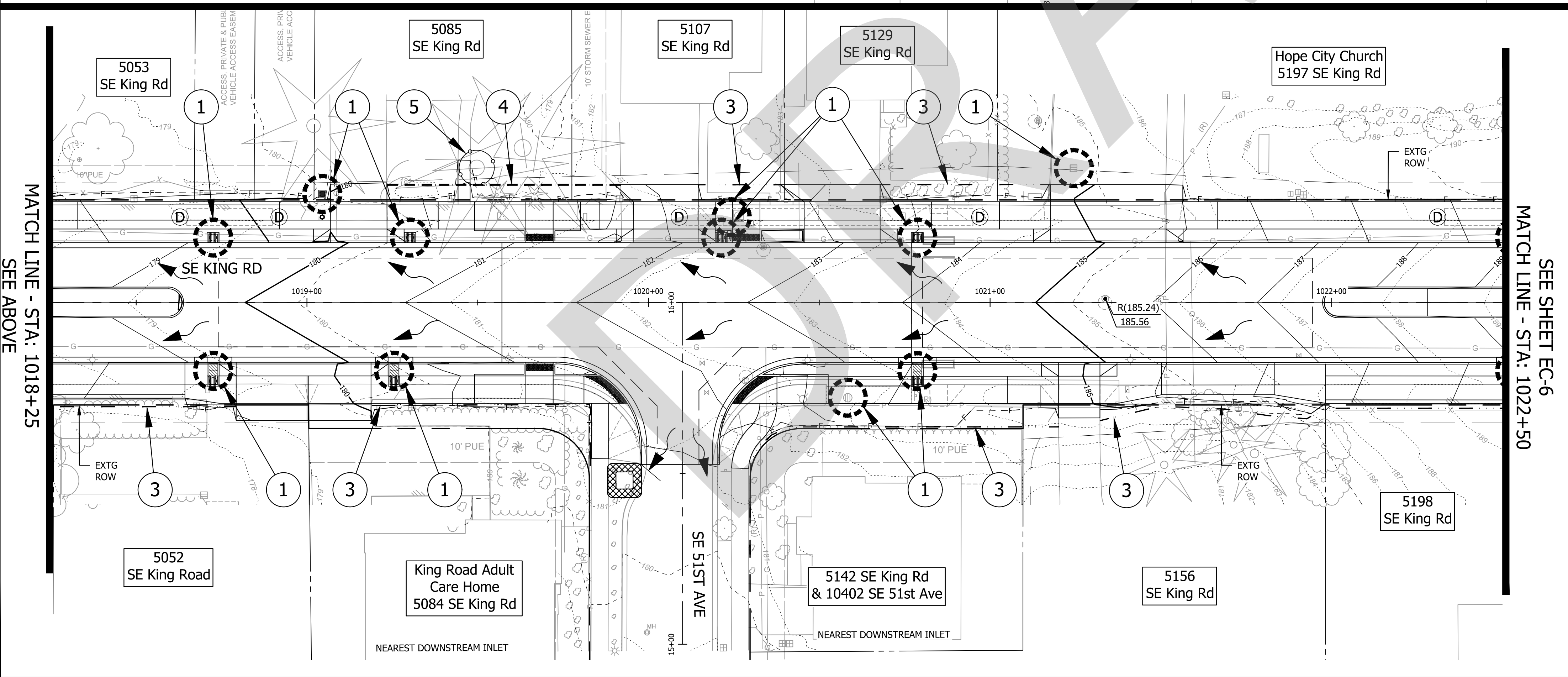
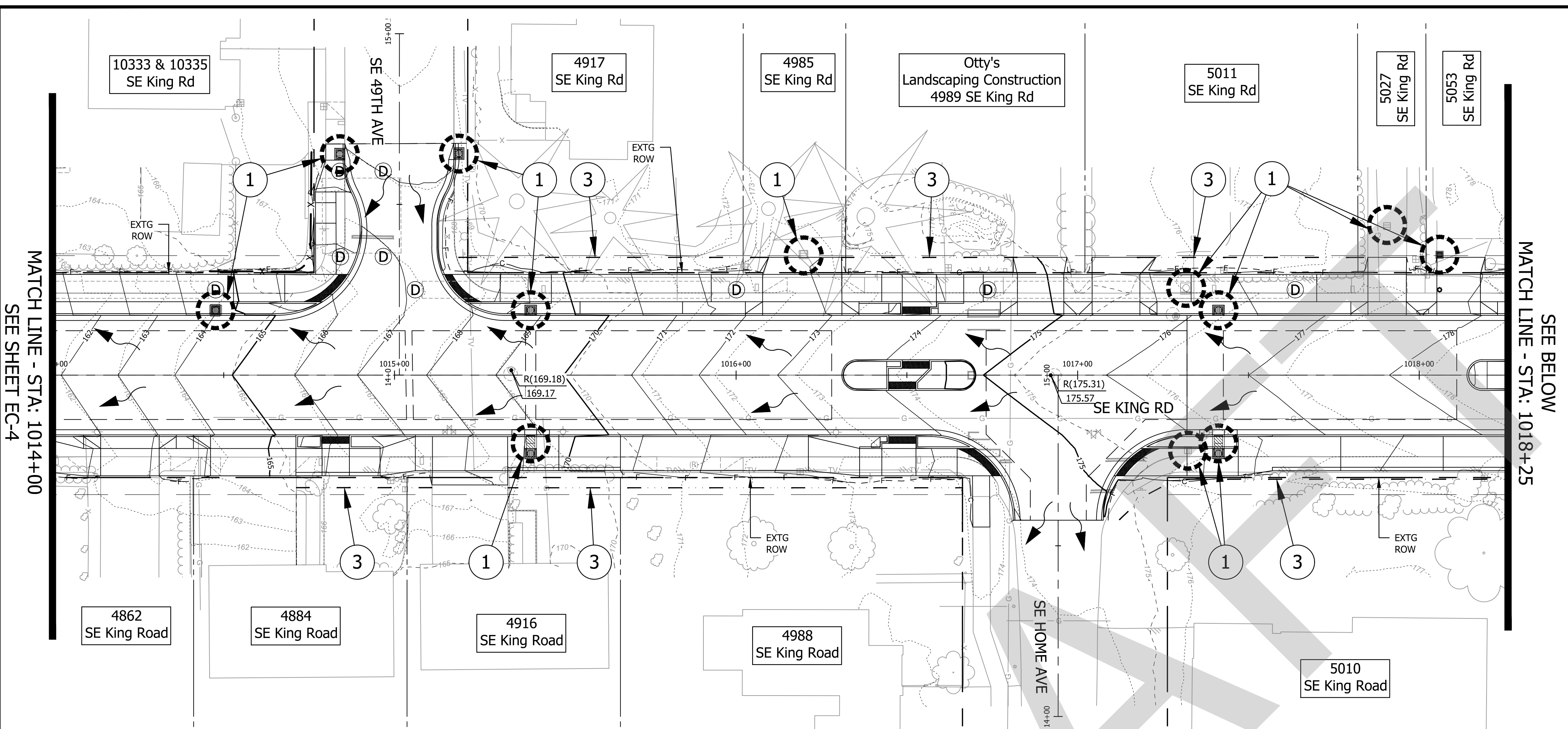
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

EROSION CONTROL PLANS

SHEET NO.  
**EC-4**

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**PRE-CONSTRUCTION NOTES**

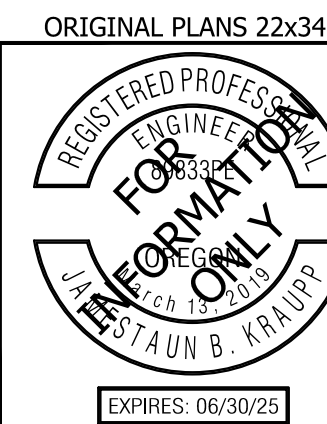
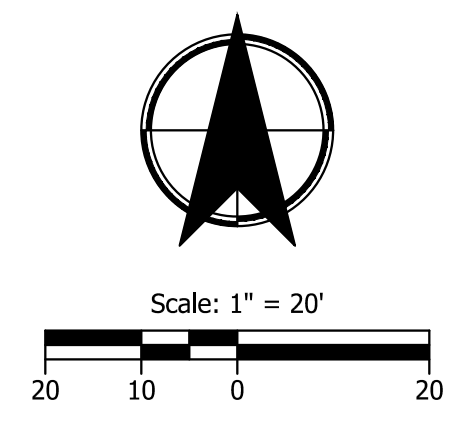
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2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE COMPOST SOCK, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. TREE PROTECTION FENCING SHALL BE 4' TALL ORANGE CONSTRUCTION FENCE, SECURED TO 6' TALL METAL POSTS, DRIVEN 2' INTO THE GROUND.

**LEGEND**

- XX — XX — XX — SEDIMENT FENCE
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- - - - - COMPOST FILTER BERM
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R(XXX.XX) (EXTG. ELEVATION);  
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- ▬ ▬ EXTG./PROPOSED CB
- ⊘ ⊘ INLET PROTECTION
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- ⊙ ⊙ TREES TO REMAIN AND BE PROTECTED
- ✕ ✕ TREES TO BE REMOVED PER ARBORIST REPORT

**CONSTRUCTION NOTES**

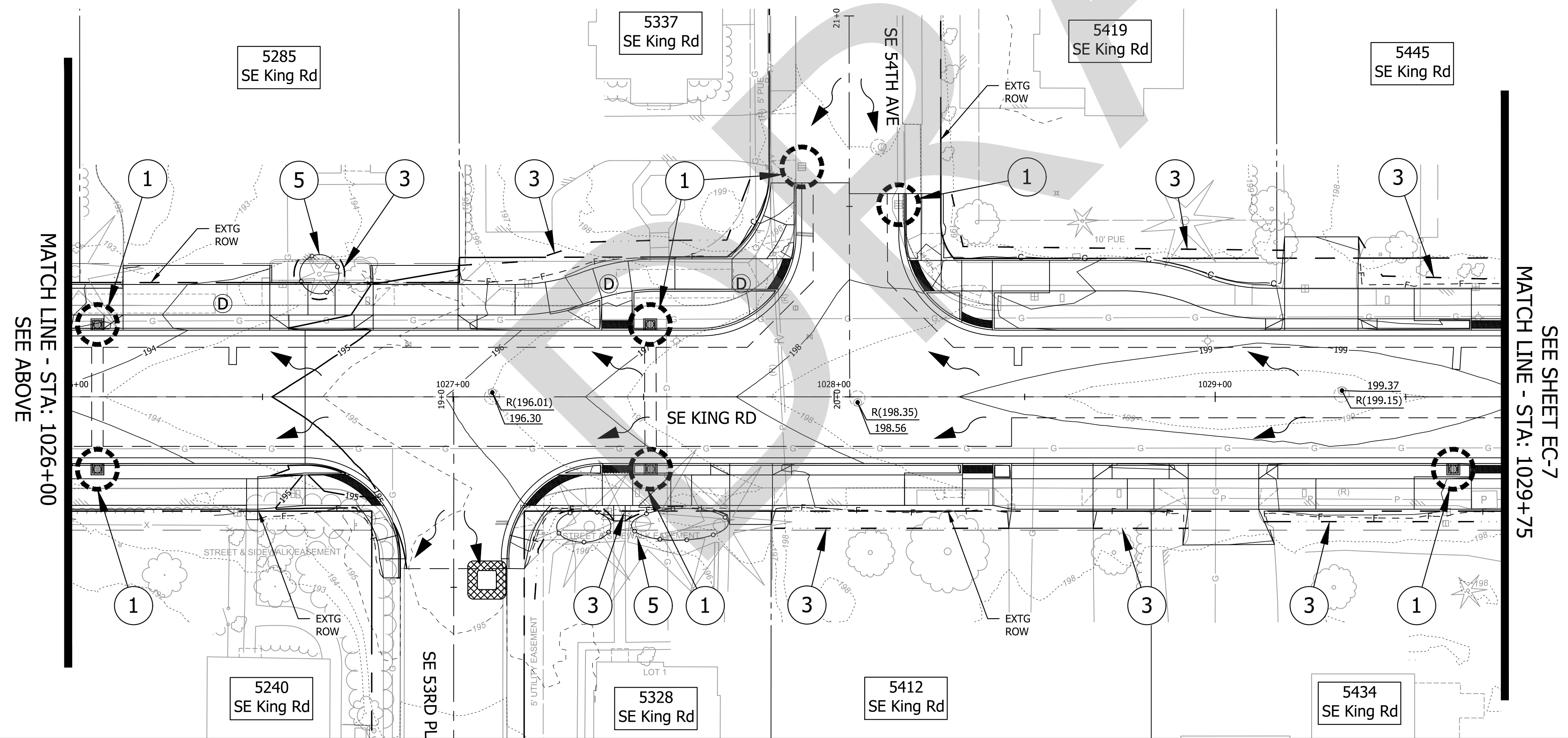
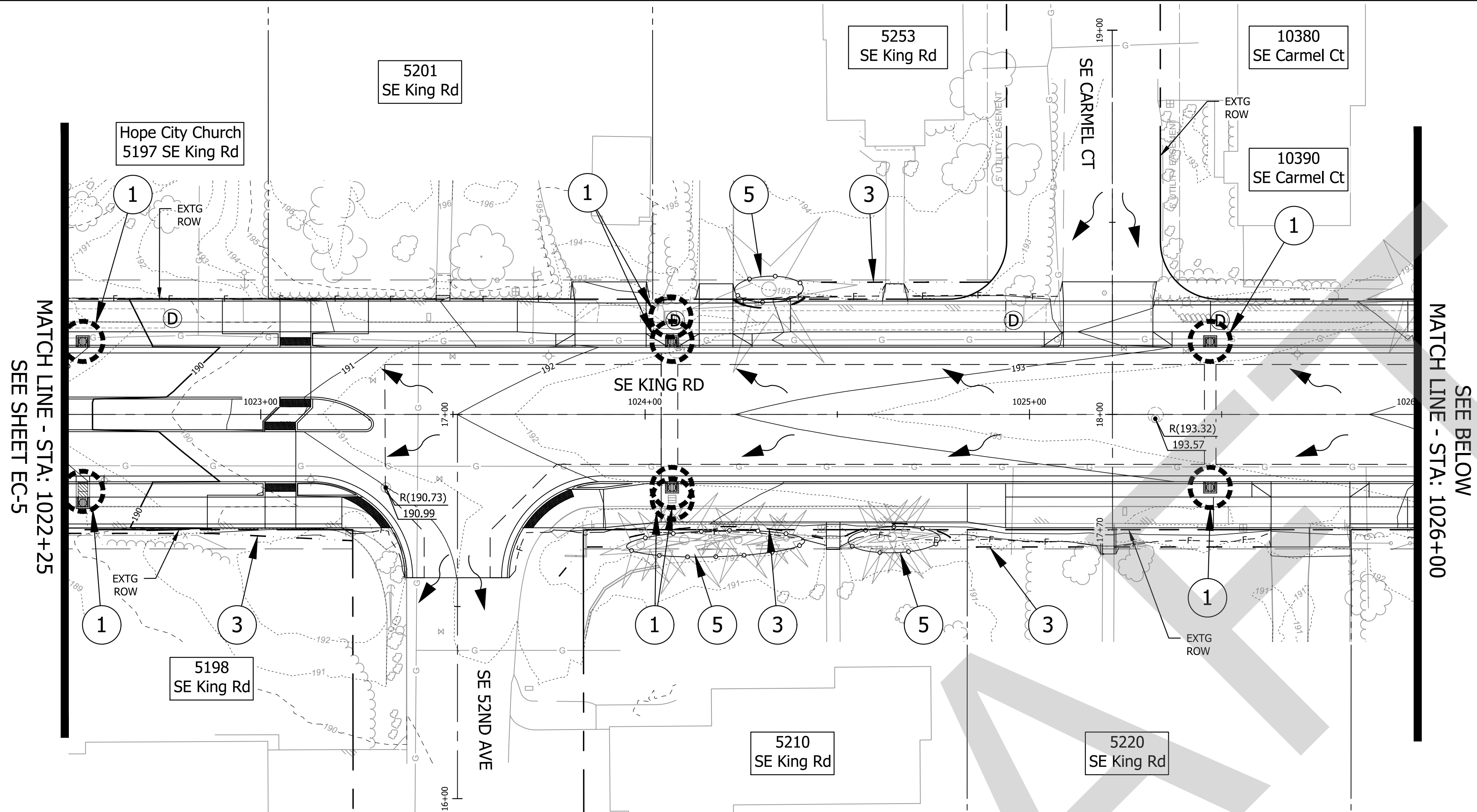
1. INSTALL CURB AND INTERNAL INLET PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
2. INSTALL SEDIMENT FENCE. (FOR DETAILS, SEE SHT. EC-10)
3. INSTALL COMPOST SOCK. (FOR DETAILS, SEE SHT. EC-10)
4. INSTALL COMPOST FILTER BERM. (FOR DETAILS, SEE SHT. EC-10)
5. INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)



#	DATE	REVISION	APP'D

Submission Date: November 12, 2024  
 Drawn: DPB, Designed: DPB, Checked: JBK  
 PROJECT NO. C2023-032

Plot Stamp: 11/11/2024 3:07:42 PM - Allison Winter  
 File: H:\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-EC-Grading\_Erosion Control-28175.dwg



**PRE-CONSTRUCTION NOTES**

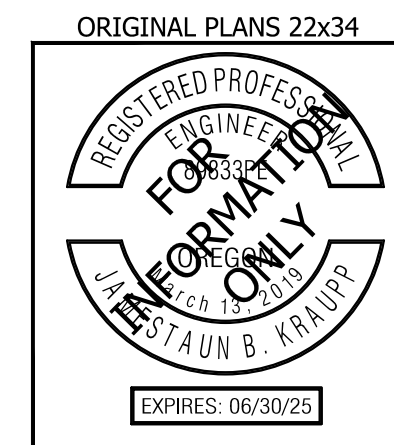
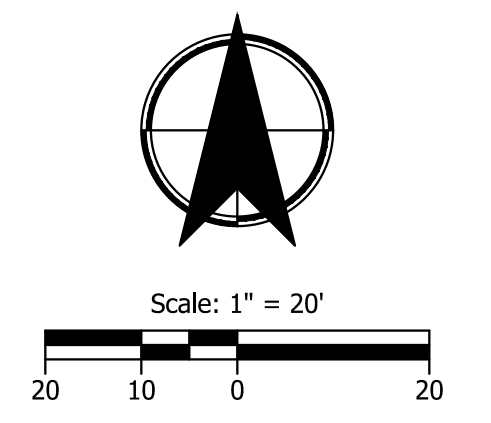
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2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE COMPOST SOCK, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. TREE PROTECTION FENCING SHALL BE 4' TALL ORANGE CONSTRUCTION FENCE, SECURED TO 6' TALL METAL POSTS, DRIVEN 2' INTO THE GROUND.

**LEGEND**

- XX — XX — XX — SEDIMENT FENCE
- - - - - COMPOST SOCK
- - - - - COMPOST FILTER BERM
- - - - - EXISTING ROW LINE
- - - - - PROPOSED ROW LINE
- - - - 250 - - - - EXISTING MAJOR CONTOURS
- - - - 249 - - - - EXISTING MINOR CONTOURS
- - - - 250 - - - - PROPOSED MAJOR CONTOURS
- - - - 249 - - - - PROPOSED MINOR CONTOURS
- FLOW ARROW
- ⊙ ⊙ EXTG./PROPOSED MH  
R(XXX.XX) (EXTG. ELEVATION);  
RXXX.XX PROPOSED ELEVATION
- ▢ ▢ EXTG./PROPOSED CB
- ⊕ ⊕ INLET PROTECTION
- ⊠ CONCRETE WASHOUT FACILITY
- ⊙ ⊙ TREES TO REMAIN AND BE PROTECTED
- ✕ ✕ TREES TO BE REMOVED PER ARBORIST REPORT

**CONSTRUCTION NOTES**

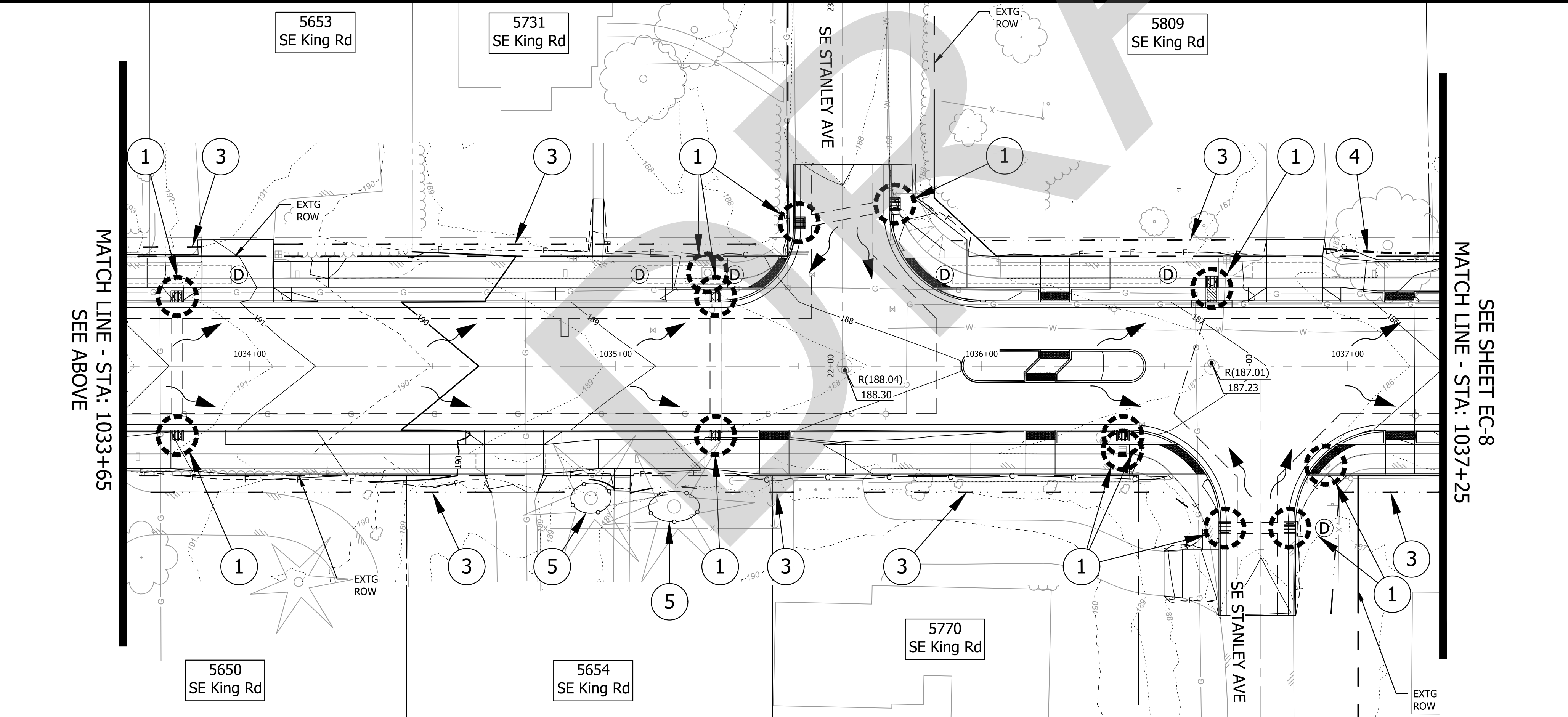
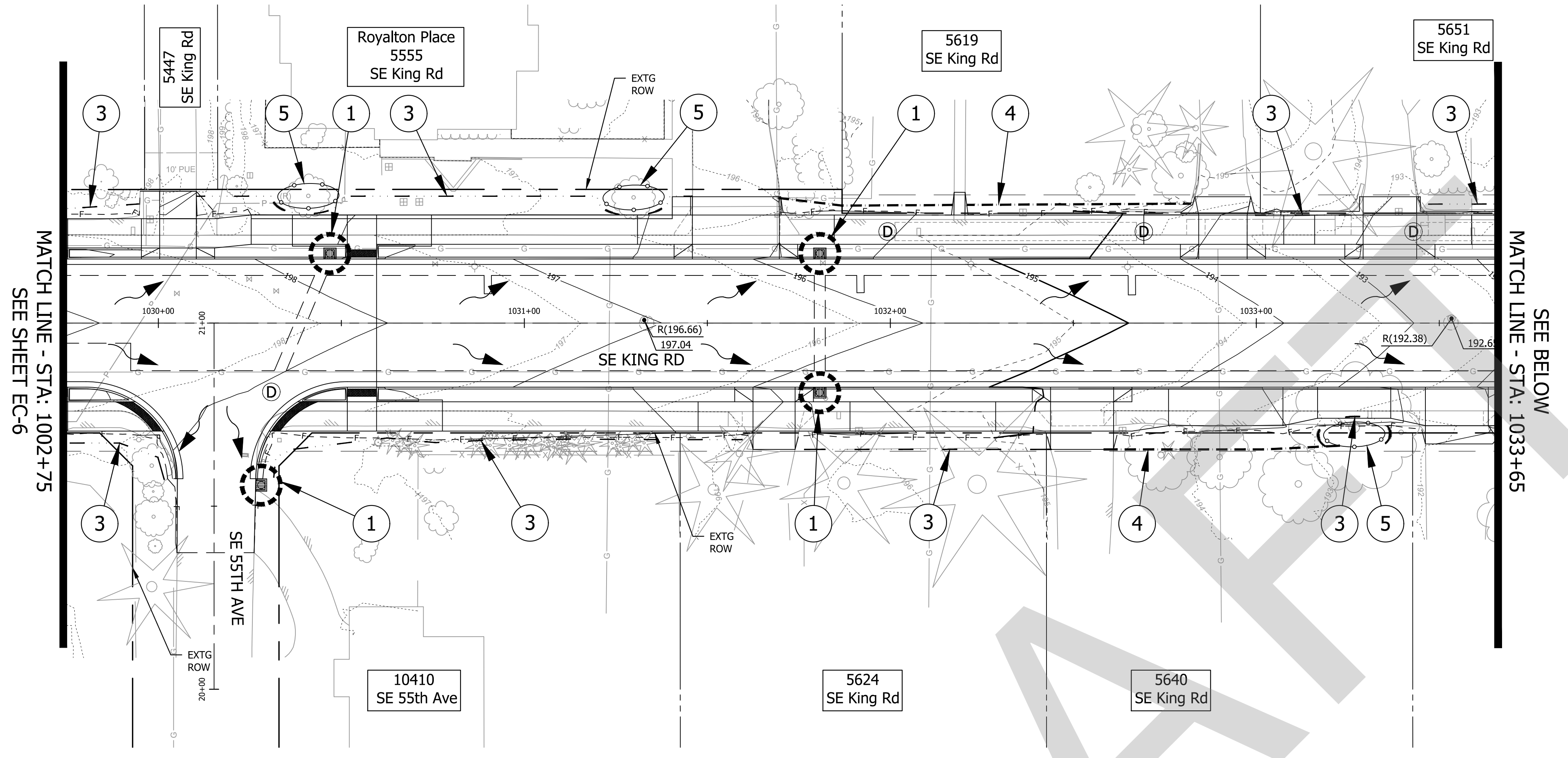
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5. INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)



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Submission Date: November 12, 2024  
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 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-EC-Grading\_Erosion Control-28175.dwg



**PRE-CONSTRUCTION NOTES**

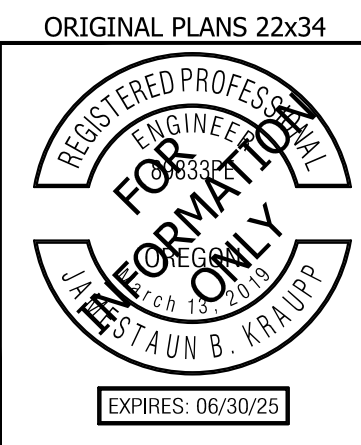
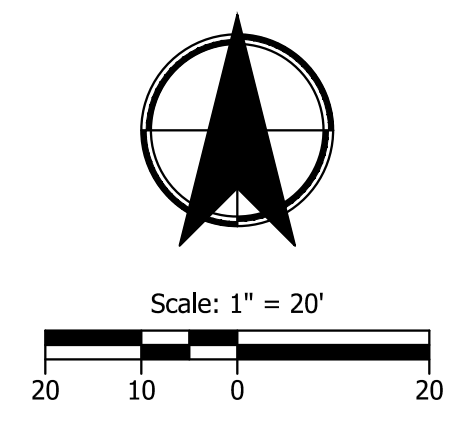
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- xx — xx — xx — SEDIMENT FENCE
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- - - - - COMPOST FILTER BERM
- - - - - EXISTING ROW LINE
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- FLOW ARROW
- ⊙ ⊙ EXTG./PROPOSED MH  
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- ⊞ CONCRETE WASHOUT FACILITY
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**CONSTRUCTION NOTES**

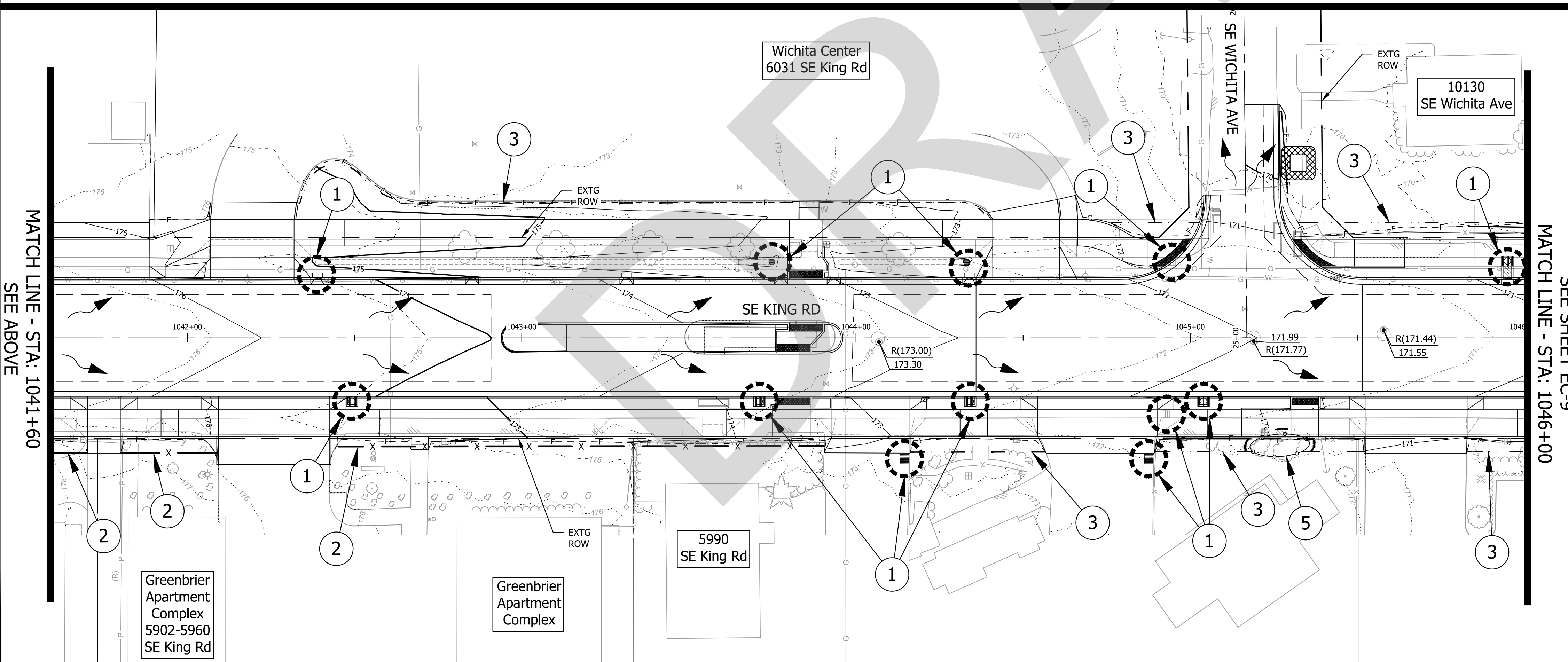
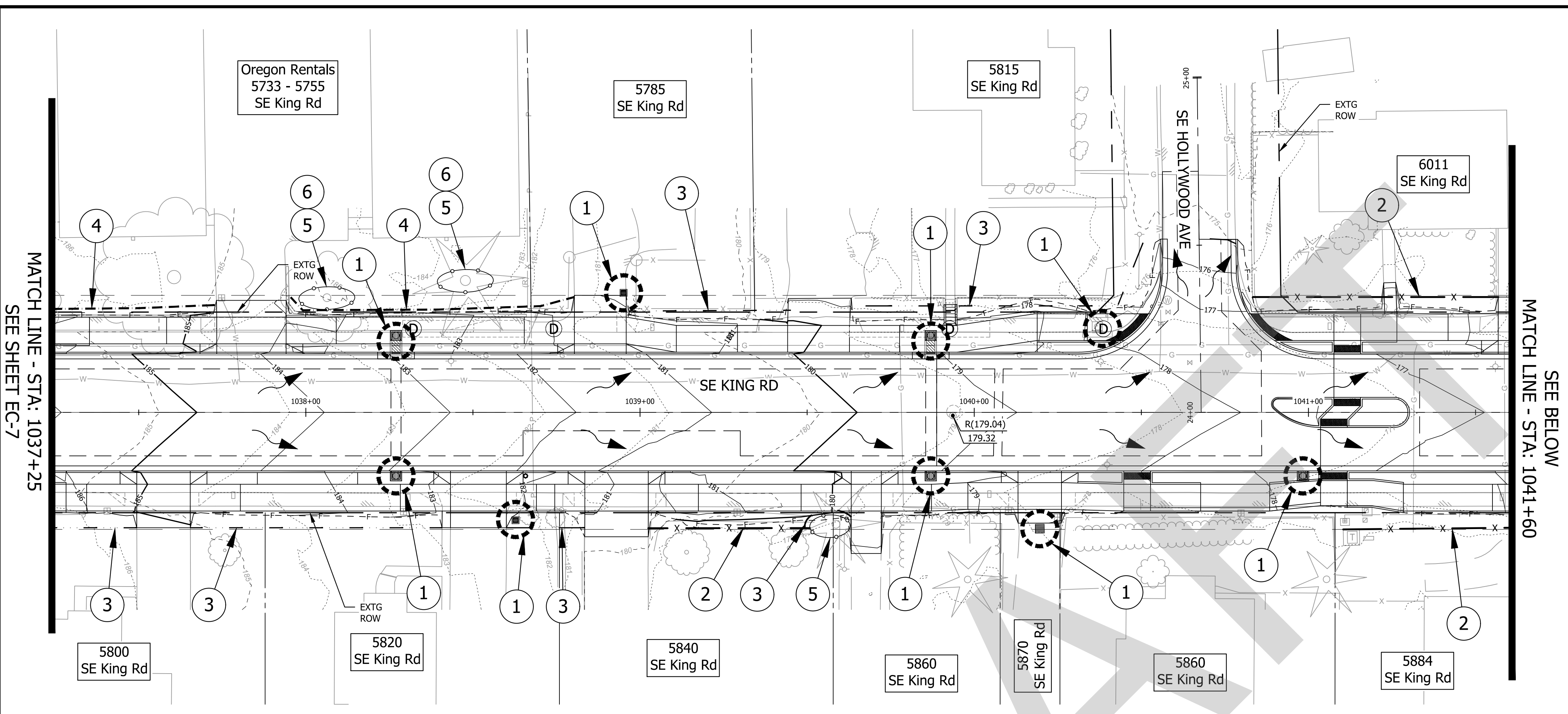
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**PRE-CONSTRUCTION NOTES**

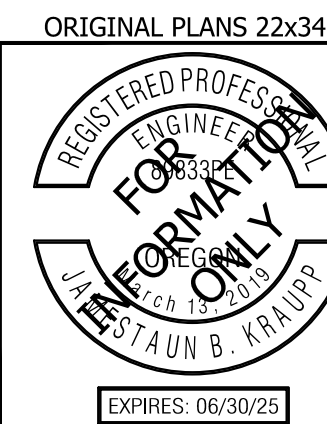
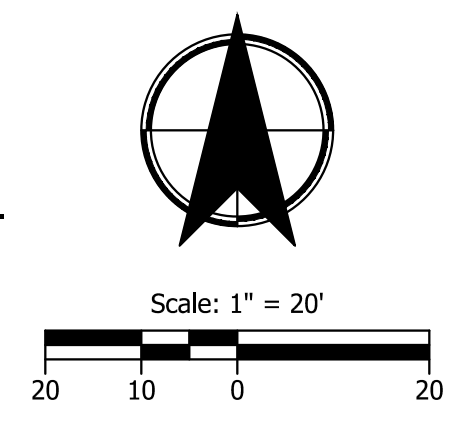
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**CONSTRUCTION NOTES**

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4. INSTALL COMPOST FILTER BERM. (FOR DETAILS, SEE SHT. EC-10)
5. INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)
6. ARBORIST SUPERVISION REQUIRED DURING GRADING AND EXCAVATION ACTIVITIES. IF TREE ROOTS ENCOUNTERED, CONTRACTOR TO USE HAND TOOLS.

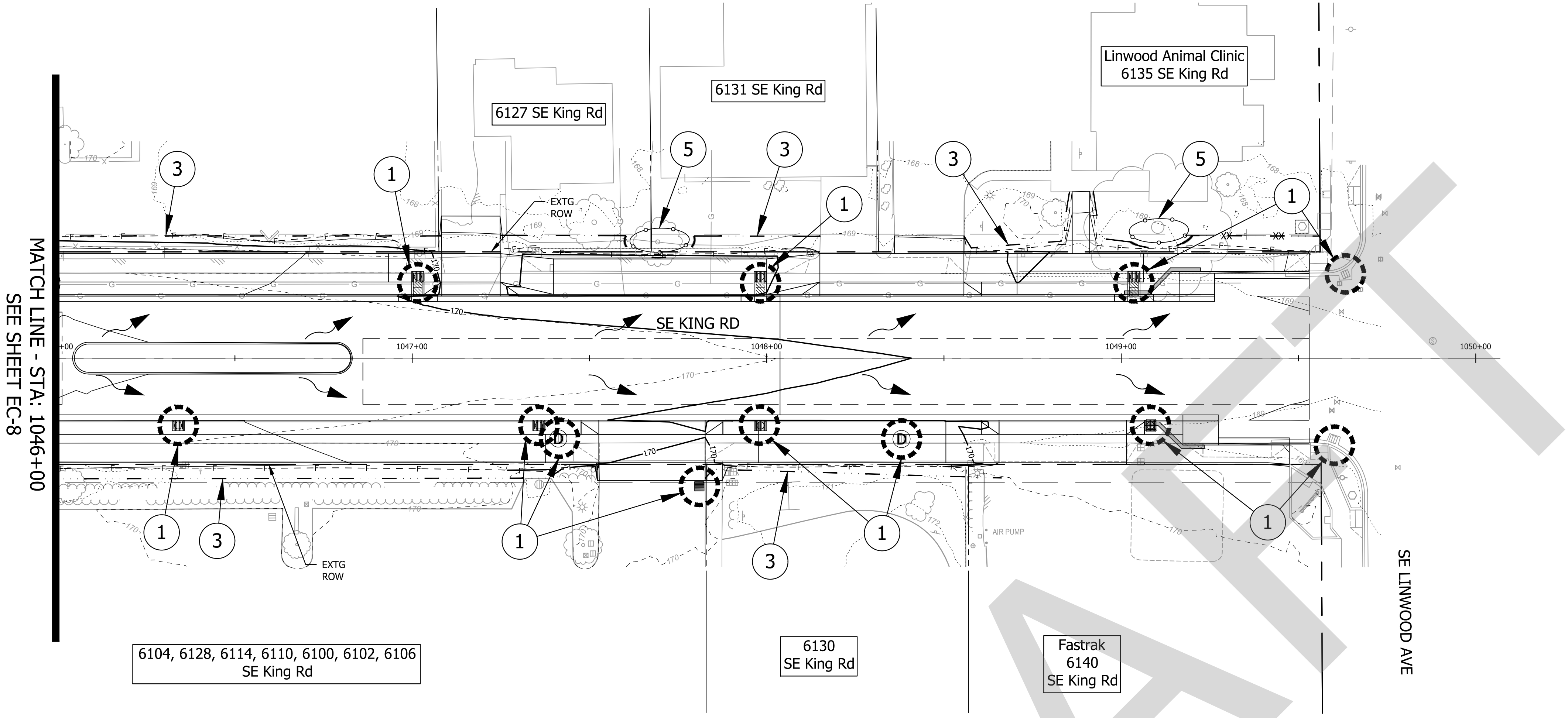


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Submission Date: November 12, 2024  
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 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-EC-Grading\_Erosion Control-28175.dwg



**PRE-CONSTRUCTION NOTES**

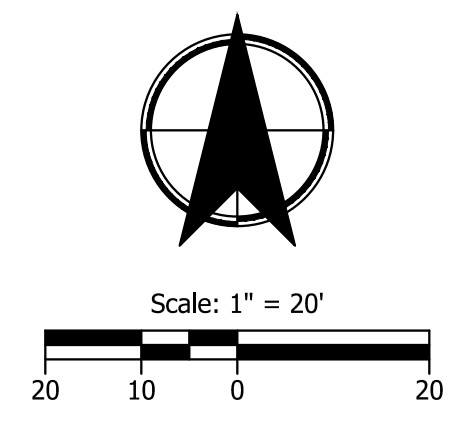
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**LEGEND**

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- COMPOST SOCK
- - - COMPOST FILTER BERM
- - - EXISTING ROW LINE
- - - PROPOSED ROW LINE
- - - 250 EXISTING MAJOR CONTOURS
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- - - 250 PROPOSED MAJOR CONTOURS
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- FLOW ARROW
- D D EXTG./PROPOSED MH R(XXX.XX) (EXTG. ELEVATION); RXXX.XX PROPOSED ELEVATION
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- INSTALL TREE PROTECTION. (FOR DETAILS, SEE SHT. EC-10)



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

APP'D	REVISION	DATE	#

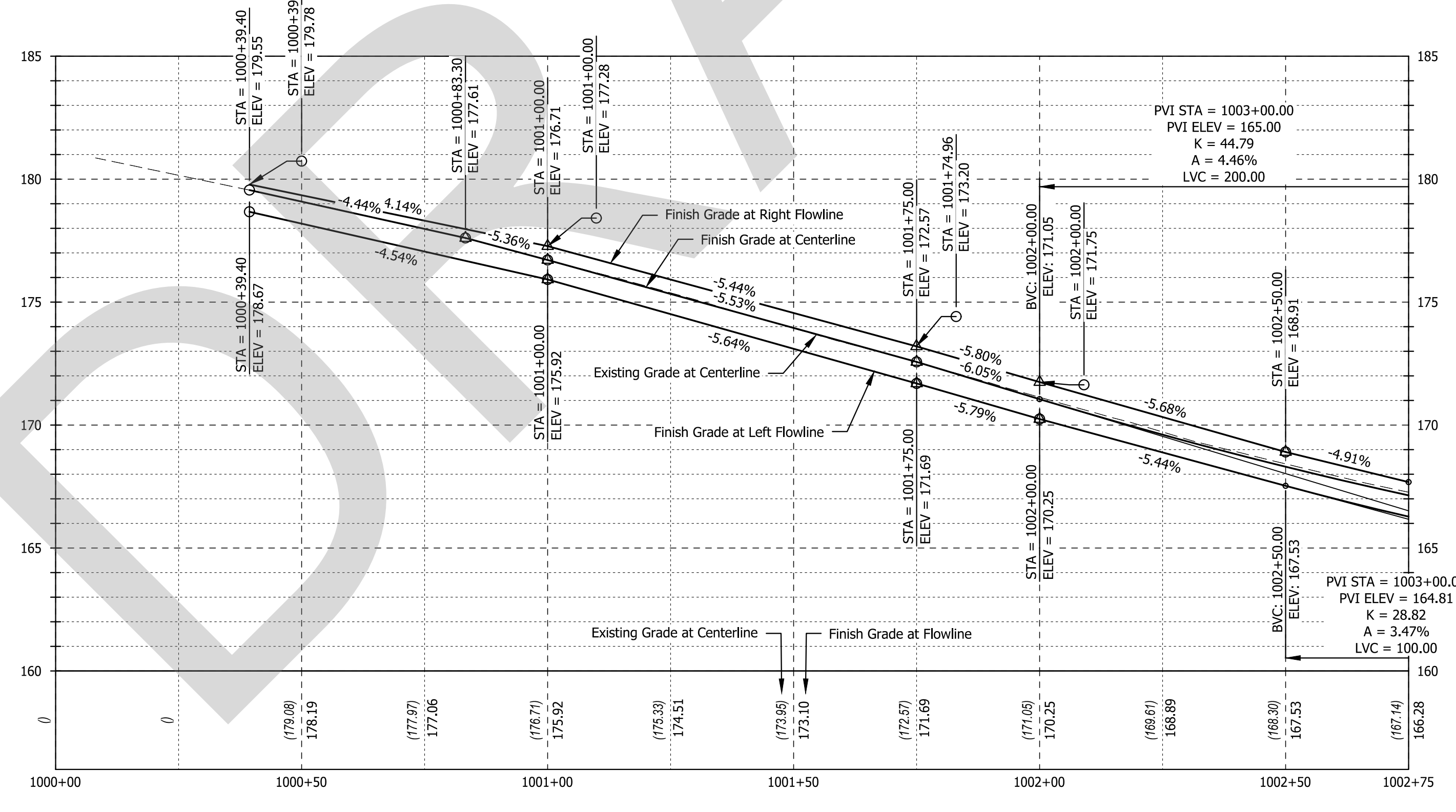
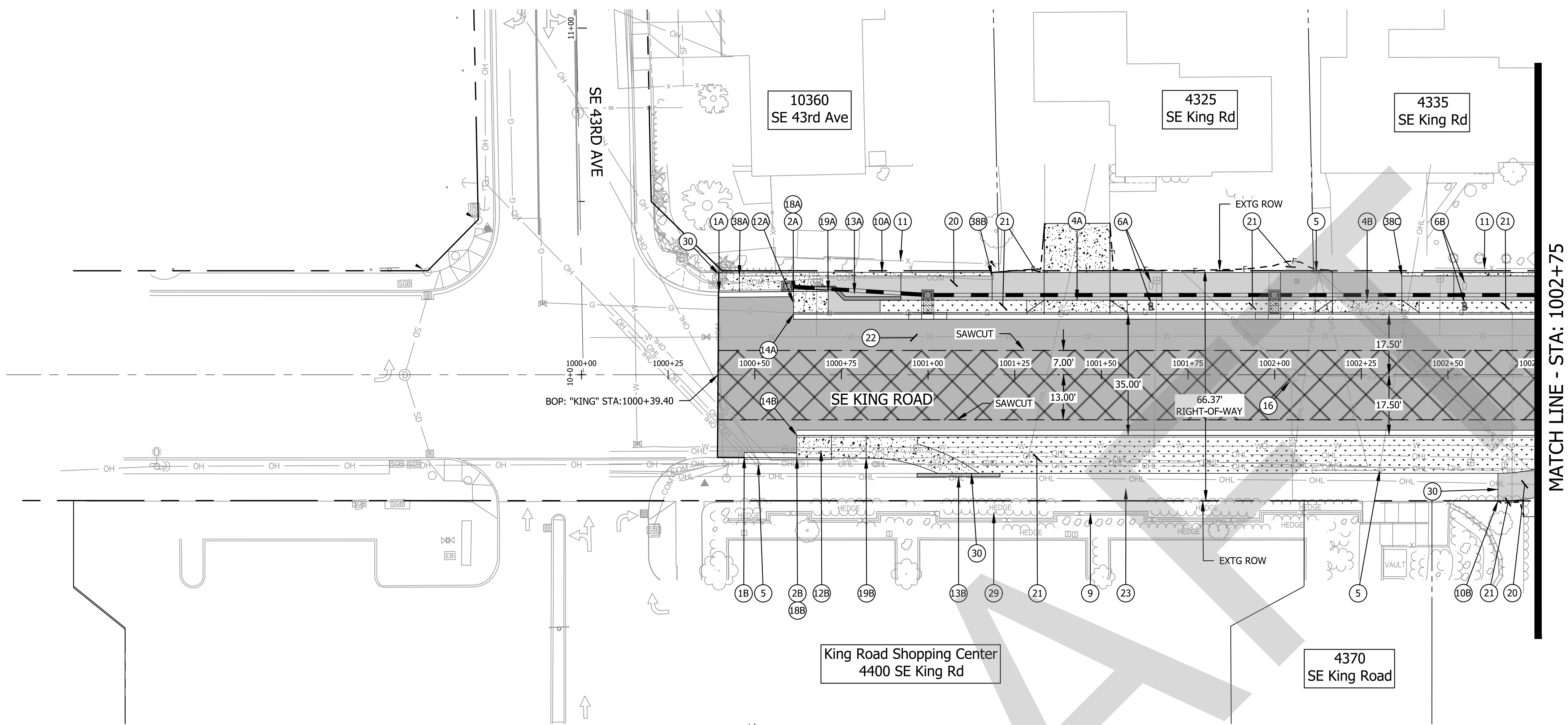
Submission Date: November 12, 2024  
 Drawn: DPB, Designed: DPB, Checked: JBK  
 PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

EROSION CONTROL PLANS

SHEET NO. EC-9

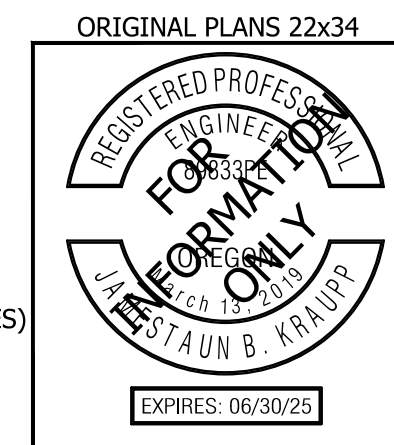
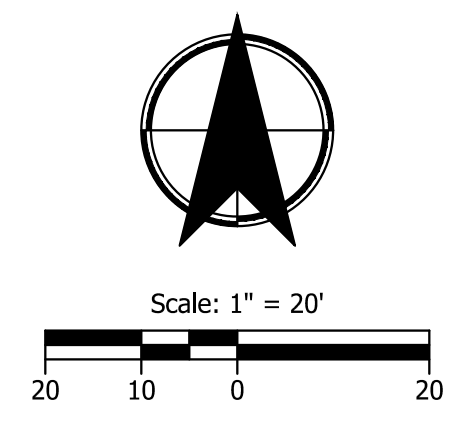
Plot Stamp: 11/11/2024 3:09:37 PM - Allison Winter  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-Street Plans-28175.dwg



PROFILE VIEW  
 SCALE: 1" = 20' (HOR.), 1" = 4" (VERT)

CONSTRUCTION NOTES

- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "KING" STA: 1000+39.68, 23.83' LT.  
 1B - "KING" STA: 1000+46.94, 23.89' RT.
- 2 END STANDARD CURB & GUTTER  
 2A - "KING" STA: 1000+71.16, 24.00' LT.  
 2B - "KING" STA: 1000+82.13, 24.00' RT.
- 3 NOTE NOT USED
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-40 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-40 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (2 EA)  
 6A - "KING" STA: 1001+64.26, 19.71' LT.  
 6B - "KING" STA: 1002+54.77, 19.71' LT.
- 7 NOTE NOT USED
- 8 NOTE NOT USED
- 9 PROTECT EXISTING RETAINING WALL
- 10 BEGIN SHARED USE PATH  
 10A - "KING" STA: 1000+86.71, LT  
 10B - "KING" STA: 1002+64.41, RT
- 11 PROTECT EXISTING FENCE
- 12 CONSTRUCT CONCRETE BIKE RAMP TRANSITION  
 12A - SEE SHEET 2E-2 FOR DETAILED GRADING  
 12B - SEE SHEET 2E-2 FOR DETAILED GRADING
- 13 INSTALL TEKWAY TACTICAL WARNING DELINEATOR SEE SHEET 2B-13 FOR STANDARD DETAILS  
 13A - SEE SHEET 2E-2 FOR DETAILED LIMITS  
 13B - SEE SHEET 2E-2 FOR DETAILED LIMITS
- 14 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 14A - "KING" STA: 1000+61.16, 17.50' LT.  
 14B - "KING" STA: 1000+62.13, 17.50' RT.
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (1 EA.)
- 17 NOTE NOT USED
- 18 BEGIN STANDARD CURB, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 18A - "KING" STA: 1000+61.16, 24.00' LT.  
 18B - "KING" STA: 1000+62.13, 24.00' RT.
- 19 END STANDARD CURB, E=0"  
 19A - "KING" STA: 1000+61.16, 24.00' LT.  
 19B - "KING" STA: 1000+62.13, 24.00' RT.
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 MAINTAIN AND PROTECT EXISTING CONCRETE PATH
- 24 NOTE NOT USED
- 25 NOTE NOT USED
- 26 NOTE NOT USED
- 27 NOTE NOT USED
- 28 NOTE NOT USED
- 29 PROTECT EXISTING HEDGES
- 30 RECONNECT TO EXISTING WALK
- 31 NOTE NOT USED
- 32 NOTE NOT USED
- 33 NOTE NOT USED
- 34 NOTE NOT USED
- 35 NOTE NOT USED
- 36 NOTE NOT USED
- 37 NOTE NOT USED
- 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1000+45.55, 28.5' LT.  
 38B - "KING" STA: 1001+18.47, 28.5' LT.  
 38C - "KING" STA: 1002+36.68, 28.5' LT.



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Submission Date:  
November 12, 2024

Drawn: DFB    Designed: DPB    Checked: JBK

PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

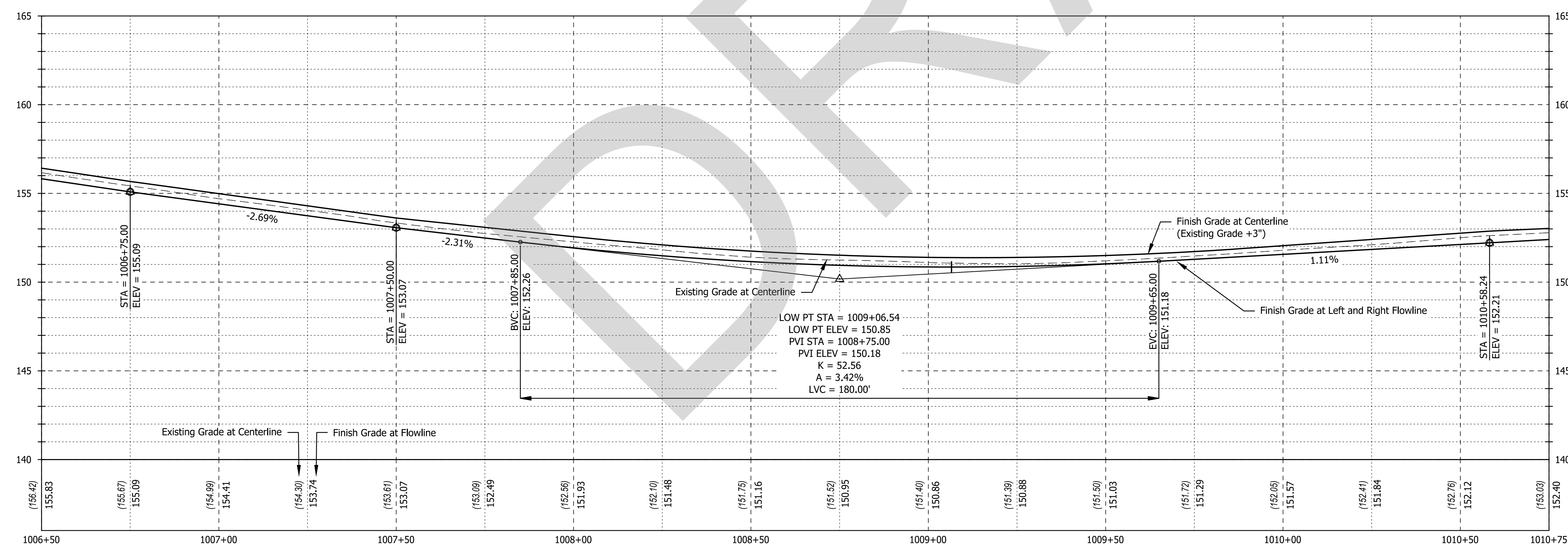
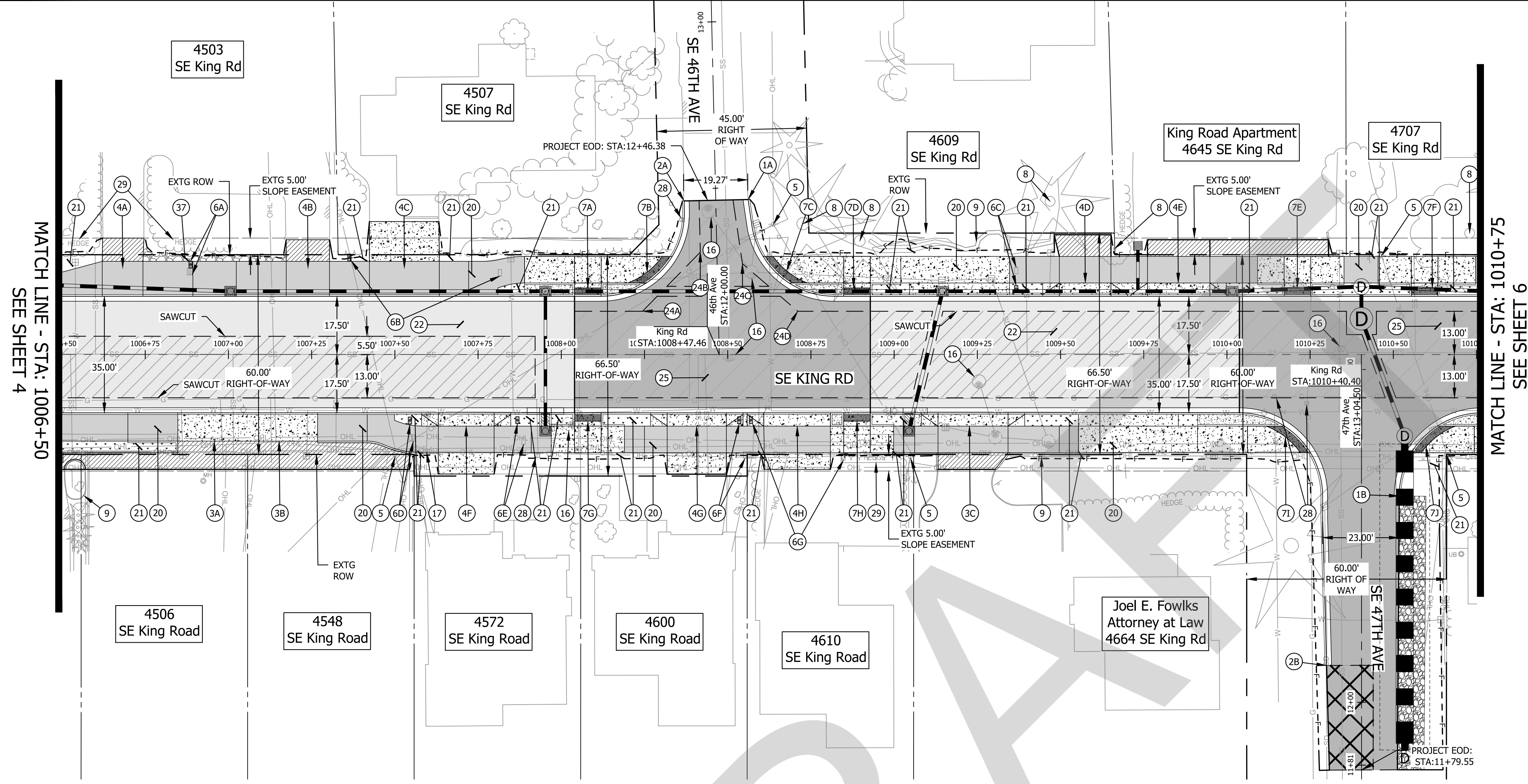
STREET PLANS

SHEET NO.  
**3**

EXPIRES: 06/30/25

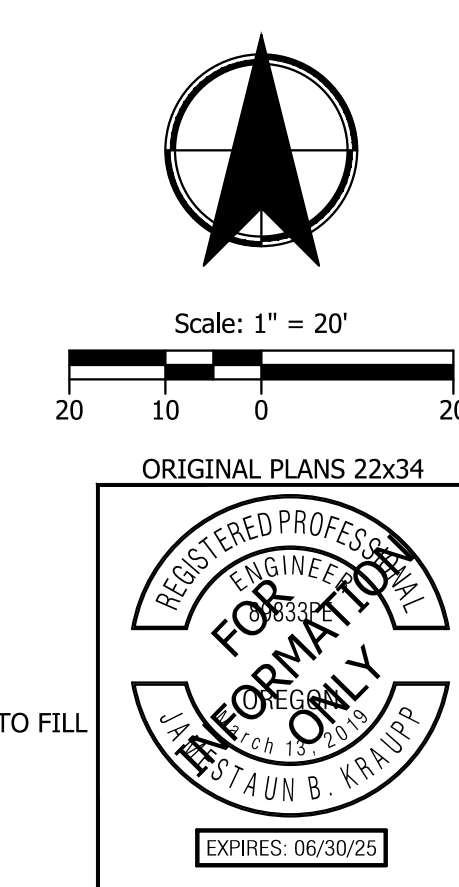


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PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4' (VERT)

- CONSTRUCTION NOTES**
- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "SE 46TH AVE" STA: 12+46.38, 9.72' RT.  
 1B - "SE 47TH AVE" STA: 12+61.99, 11.32' RT.
  - 2 END STANDARD CURB & GUTTER  
 2A - "SE 46TH AVE" STA: 12+46.38, 9.50' LT.  
 2B - "SE 47TH AVE" STA: 12+11.03, 10.50' LT.
  - 3 CONSTRUCT COMMERCIAL SET BACK OR CURB TIGHT DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 & 2B-9 FOR ODOT DRAWING NO. RD740 & RD745 DETAIL  
 3A - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3B - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3C - SEE SHEET 2E-43 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 4 CONSTRUCT RESIDENTIAL SET BACK OR CURB TIGHT DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 & 2B-9 FOR ODOT DRAWING NO. RD740 & RD745 DETAIL  
 4A - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4D - SEE SHEET 2E-43 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4E - SEE SHEET 2E-43 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4F - SEE SHEET 2E-42 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4G - SEE SHEET 2E-43 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4H - SEE SHEET 2E-43 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 5 PROTECT EXISTING UTILITY POLE
  - 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (7 EA)  
 6A - "KING" STA: 1006+88.65, 27.04' LT.  
 6B - "KING" STA: 1007+36.36, 29.14' LT.  
 6C - "KING" STA: 1009+56.68, 19.71' LT.  
 6D - "KING" STA: 1007+54.53, 19.83' LT.  
 6E - "KING" STA: 1007+86.83, 19.71' RT.  
 6F - "KING" STA: 1008+53.47, 19.72' RT.  
 6G - "KING" STA: 1008+56.97, 19.71' RT.
  - 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-5 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-5 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-5 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-5 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-7 FOR DETAILED GRADING  
 7F - SEE SHEET 2E-7 FOR DETAILED GRADING  
 7G - SEE SHEET 2E-6 FOR DETAILED GRADING  
 7H - SEE SHEET 2E-6 FOR DETAILED GRADING  
 7I - SEE SHEET 2E-8 FOR DETAILED GRADING  
 7J - SEE SHEET 2E-8 FOR DETAILED GRADING
  - 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
  - 9 PROTECT EXISTING RETAINING WALL
  - 10 NOTE NOT USED
  - 11 NOTE NOT USED
  - 12 NOTE NOT USED
  - 13 NOTE NOT USED
  - 14 NOTE NOT USED
  - 15 NOTE NOT USED
  - 16 MINOR ADJUSTMENT TO MANHOLE (5 EA.)
  - 17 FIRE HYDRANT - SEE WATER PLANS
  - 18 NOTE NOT USED
  - 19 NOTE NOT USED
  - 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
  - 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
  - 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
  - 23 NOTE NOT USED
  - 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1008+24.4, 13.00' LT.  
 B - "KING" STA: 1008+41.76, 30.76' LT.  
 C - "KING" STA: 1008+54.43, 27.33' LT.  
 D - "KING" STA: 1008+71.04, 13.00' LT.
  - 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
  - 26 NOTE NOT USED
  - 27 NOTE NOT USED
  - 28 ADJUST VALVE TO GRADE
  - 29 PROTECT EXISTING HEDGES
  - 30 NOTE NOT USED
  - 31 NOTE NOT USED
  - 32 NOTE NOT USED
  - 33 NOTE NOT USED
  - 34 NOTE NOT USED
  - 35 NOTE NOT USED
  - 36 NOTE NOT USED
  - 37 INSTALL AGGREGATE FROM BACK OF SIDEWALK TO FILL LIMIT



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

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#	DATE	REVISION	APP'D

Submission Date:  
November 12, 2024

Drawn: DFB    Designed: DPB    Checked: JBK

PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

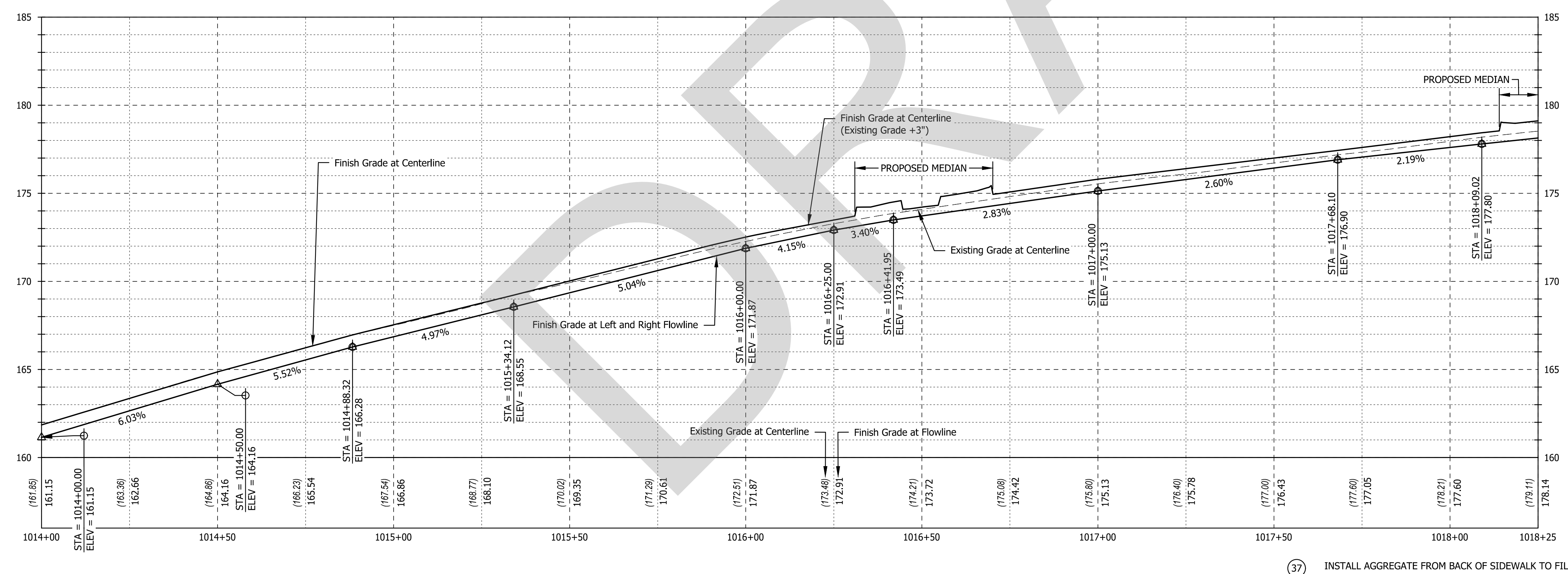
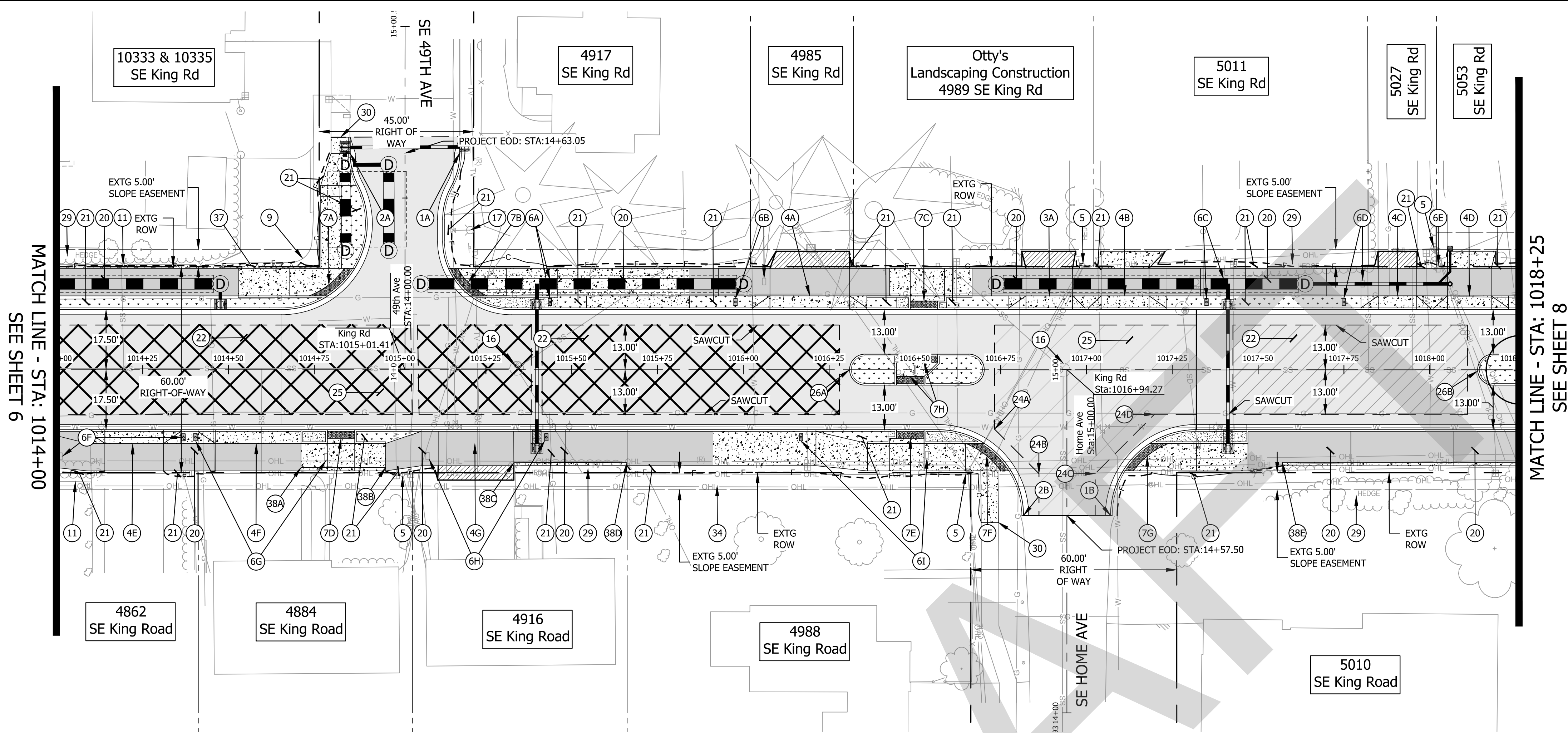
STREET PLANS

SHEET NO.  
**5**

EXPIRES: 06/30/25

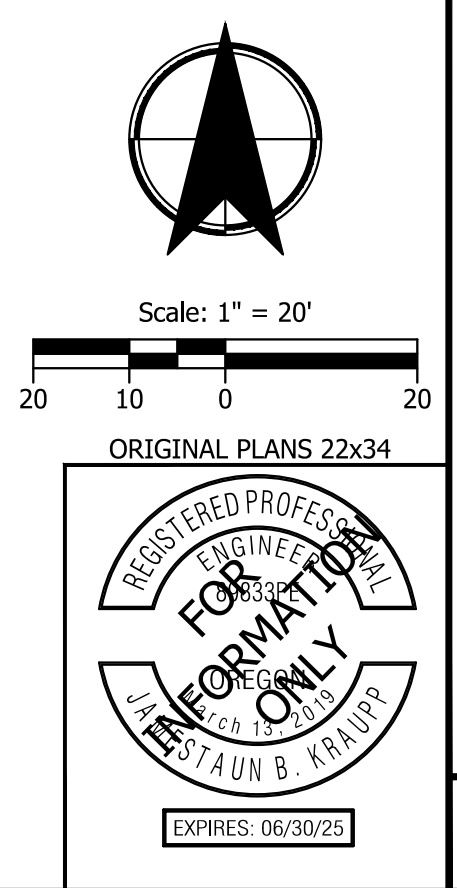


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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

- CONSTRUCTION NOTES**
- 1 BEGIN STANDARD CURB & GUTTER, E=6"  
 PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 MATCH EXISTING  
 1A - "SE 49TH AVE" STA: 14+63.14, 15.94' RT  
 1B - "SE HOME AVE" STA: 14+57.50, 12.75' RT
  - 2 END STANDARD CURB & GUTTER  
 2A - "SE 49TH AVE" STA: 14+62.97, 15.96' LT  
 2B - "SE HOME AVE" STA: 14+57.50, 12.64' LT
  - 3 CONSTRUCT COMMERCIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
 SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-46 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
 SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-46 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-46 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-47 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4D - SEE SHEET 2E-47 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4E - SEE SHEET 2E-45 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4F - SEE SHEET 2E-46 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4G - SEE SHEET 2E-46 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 5 PROTECT EXISTING UTILITY POLE
  - 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (9 EA)  
 6A - "KING" STA: 1015+43.63, 19.71' LT.  
 6B - "KING" STA: 1015+97.72, 19.71' LT.  
 6C - "KING" STA: 1017+34.97, 19.93' LT.  
 6D - "KING" STA: 1017+74.97, 19.96' LT.  
 6E - "KING" STA: 1018+02.50, 29.50' LT.  
 6F - "KING" STA: 1014+36.97, 19.71' RT.  
 6G - "KING" STA: 1014+40.47, 19.70' RT.  
 6H - "KING" STA: 1015+42.69, 19.70' RT.  
 6I - "KING" STA: 1016+16.82, 19.46' RT.
  - 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-9 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-9 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-11 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-10 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-12 FOR DETAILED GRADING  
 7F - SEE SHEET 2E-12 FOR DETAILED GRADING  
 7G - SEE SHEET 2E-12 DETAILED GRADING  
 7H - SEE SHEET 2E-11 FOR DETAILED GRADING
  - 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
  - 9 PROTECT EXISTING MINOR RETAINING WALL
  - 10 NOTE NOT USED
  - 11 PROTECT EXISTING FENCE
  - 12 NOTE NOT USED
  - 13 NOTE NOT USED
  - 14 NOTE NOT USED
  - 15 NOTE NOT USED
  - 16 MINOR ADJUSTMENT TO MANHOLE (2 EA.)
  - 17 FIRE HYDRANT - SEE WATER PLANS
  - 18 NOTE NOT USED
  - 19 NOTE NOT USED
  - 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
  - 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
  - 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
  - 23 MAINTAIN AND PROTECT EXISTING CONCRETE PATH
  - 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1016+73.20, 17.35' RT.  
 B - "KING" STA: 1016+86.13, 30.28' RT.  
 C - "KING" STA: 1017+2.52, 30.56' RT.  
 D - "KING" STA: 1017+19.80, 13.00' RT.
  - 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
  - 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-11 FOR DETAILED GRADING  
 26B - SEE SHEET 2E-13 FOR DETAILED GRADING
  - 27 NOTE NOT USED
  - 28 NOTE NOT USED
  - 29 PROTECT EXISTING HEDGES
  - 30 RECONNECT TO EXISTING WALK
  - 31 NOTE NOT USED
  - 32 NOTE NOT USED
  - 33 NOTE NOT USED
  - 34 FENCE REMOVED BY OTHERS
  - 35 NOTE NOT USED
  - 36 NOTE NOT USED
  - 37 INSTALL AGGREGATE FROM BACK OF SIDEWALK TO FILL LIMIT
  - 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1014+71.13, 28.5' RT.  
 38B - "KING" STA: 1014+95.77, 28.5' RT.  
 38C - "KING" STA: 1015+33.13, 27.0' LT.  
 38D - "KING" STA: 1015+66.13, 27.0' LT.  
 38E - "KING" STA: 1017+57.03, 27.0' LT.



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NO.	REVISION	DATE	APP'D.

Submission Date: November 12, 2024  
 Drawn: DFB, Designed: DPB, Checked: JBK

PROJECT NO. C2023-032

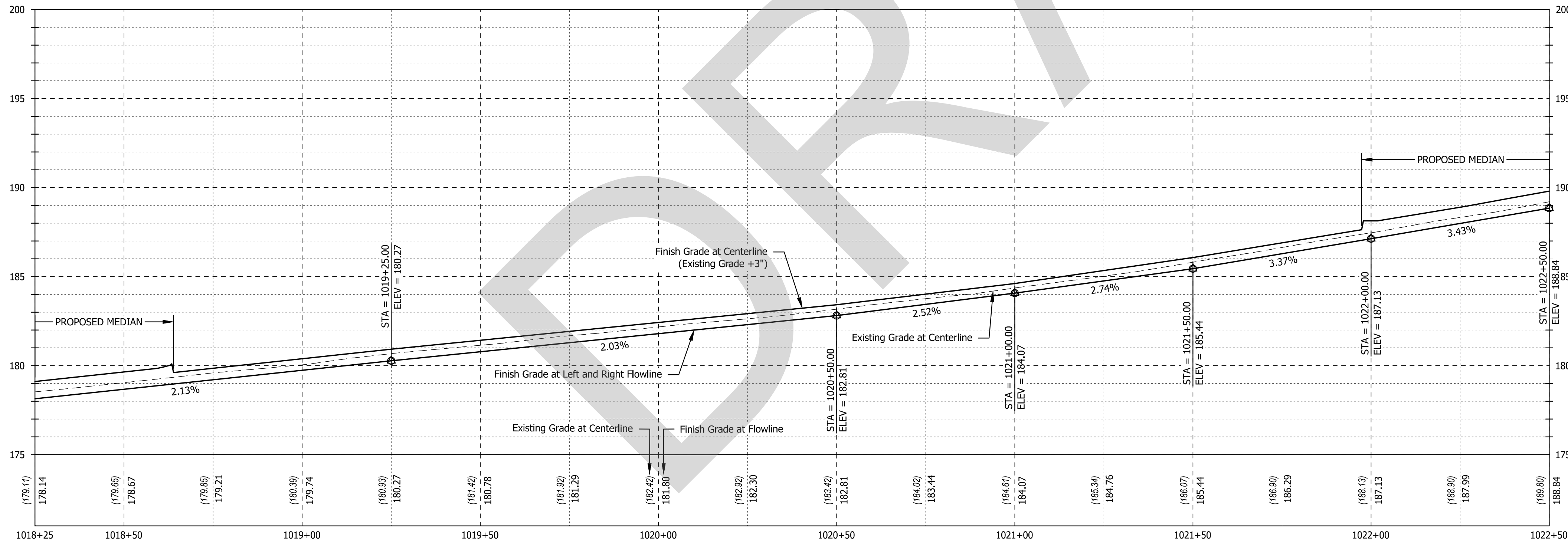
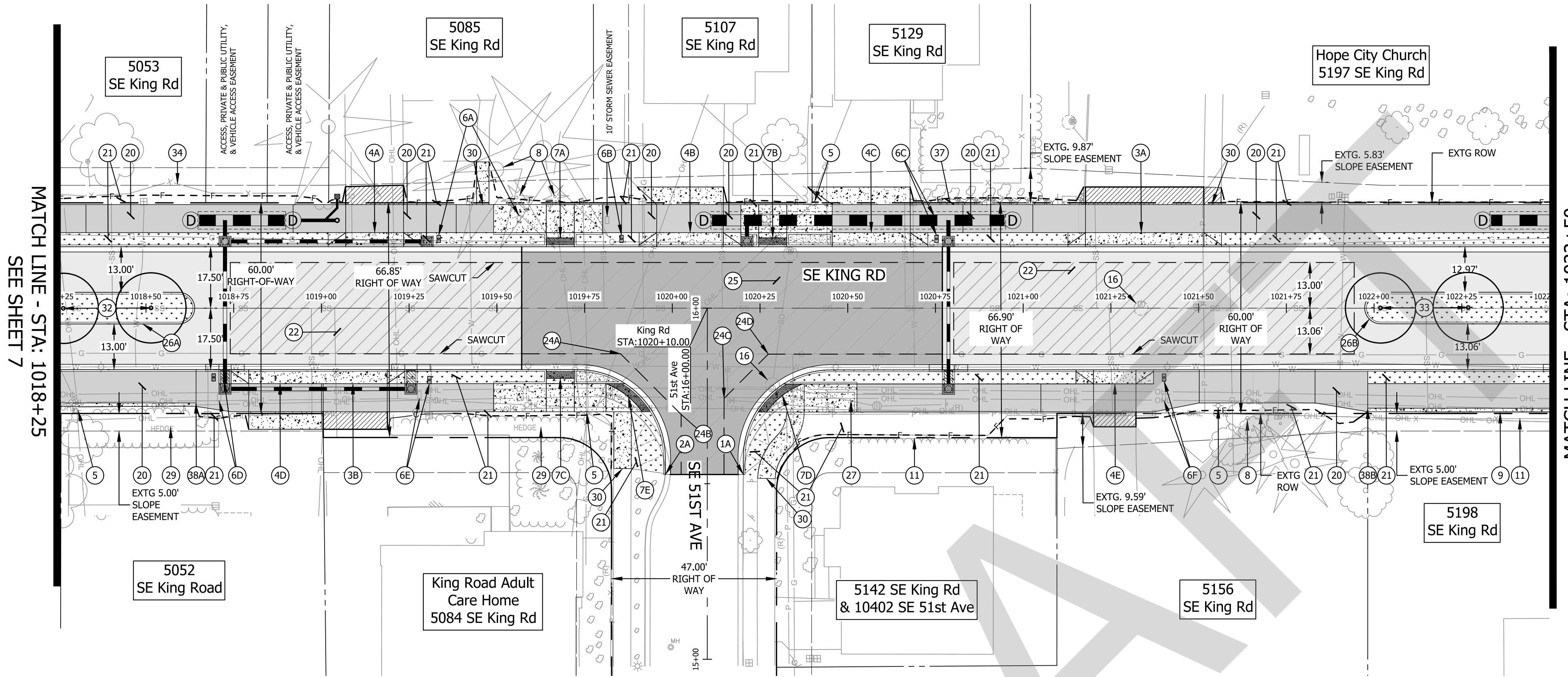
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO. 7

EXPRES: 06/30/25

Plot Stamp: 11/11/2024 3:10:22 PM - Allison Winter  
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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORIZ.), 1" = 4" (VERT)

- CONSTRUCTION NOTES**
- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "KING" STA: 15+52.61, 10.27' RT
  - 2 END STANDARD CURB & GUTTER  
 2A - "KING" STA: 15+52.61, 11.96' LT
  - 3 CONSTRUCT COMMERCIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-48 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3B - SEE SHEET 2E-47 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-47 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-48 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-48 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4D - SEE SHEET 2E-47 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4E - SEE SHEET 2E-48 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 5 PROTECT EXISTING UTILITY POLE
  - 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (6 EA)  
 6A - "KING" STA: 1019+33.43, 19.71' LT.  
 6B - "KING" STA: 1019+85.54, 19.71' LT.  
 6C - "KING" STA: 1020+75.32, 19.71' LT.  
 6D - "KING" STA: 1018+69.28, 19.72' RT.  
 6E - "KING" STA: 1019+30.78, 20.48' RT.  
 6F - "KING" STA: 1021+40.16, 19.77' RT.
  - 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-14 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-14 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-15 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-16 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-15 FOR DETAILED GRADING
  - 8 PROTECT EXISTING MAJOR TREE SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
  - 9 PROTECT EXISTING MINOR RETAINING WALL
  - 10 BEGIN SHARED USE PATH
  - 11 PROTECT EXISTING FENCE
  - 12 NOTE NOT USED
  - 13 NOTE NOT USED
  - 14 NOTE NOT USED
  - 15 NOTE NOT USED
  - 16 MINOR ADJUSTMENT TO MANHOLE (2 EA.)
  - 17 FIRE HYDRANT - SEE WATER PLANS
  - 18 NOTE NOT USED
  - 19 NOTE NOT USED
  - 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
  - 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
  - 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
  - 23 MAINTAIN AND PROTECT EXISTING CONCRETE PATH
  - 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1019+85.25, 13.00' RT.  
 B - "KING" STA: 1020+02.53, 30.28' RT.  
 C - "KING" STA: 1020+14.76, 25.71' RT.  
 D - "KING" STA: 1020+27.37, 13.10' RT.
  - 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
  - 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-13 FOR DETAILED GRADING  
 26B - SEE SHEET 2E-17 FOR DETAILED GRADING
  - 27 PROTECT EXISTING WATER QUALITY FACILITY
  - 28 ADJUST VALVE TO GRADE
  - 29 PROTECT EXISTING HEDGES
  - 30 RECONNECT TO EXISTING WALK
  - 31 NOTE NOT USED
  - 32 PLANT KOUSA DOGWOOD (CORNUS KOUSA) TREE
  - 33 PLANT VINE MAPLE (ACER CIRCINATUM) TREE
  - 34 NOTE NOT USED
  - 35 NOTE NOT USED
  - 36 NOTE NOT USED
  - 37 INSTALL AGGREGATE FROM BACK OF SIDEWALK TO FILL LIMIT
  - 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1015+66.13, 27.0' RT.  
 38B - "KING" STA: 1017+57.03, 27.0' RT.

Scale: 1" = 20'

ORIGINAL PLANS 22x34

**CITY OF MILWAUKIE**

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APP'D	REVISION	DATE	#

Submission Date: November 12, 2024  
 Drawn: DFB, Designed: DPB, Checked: JBK

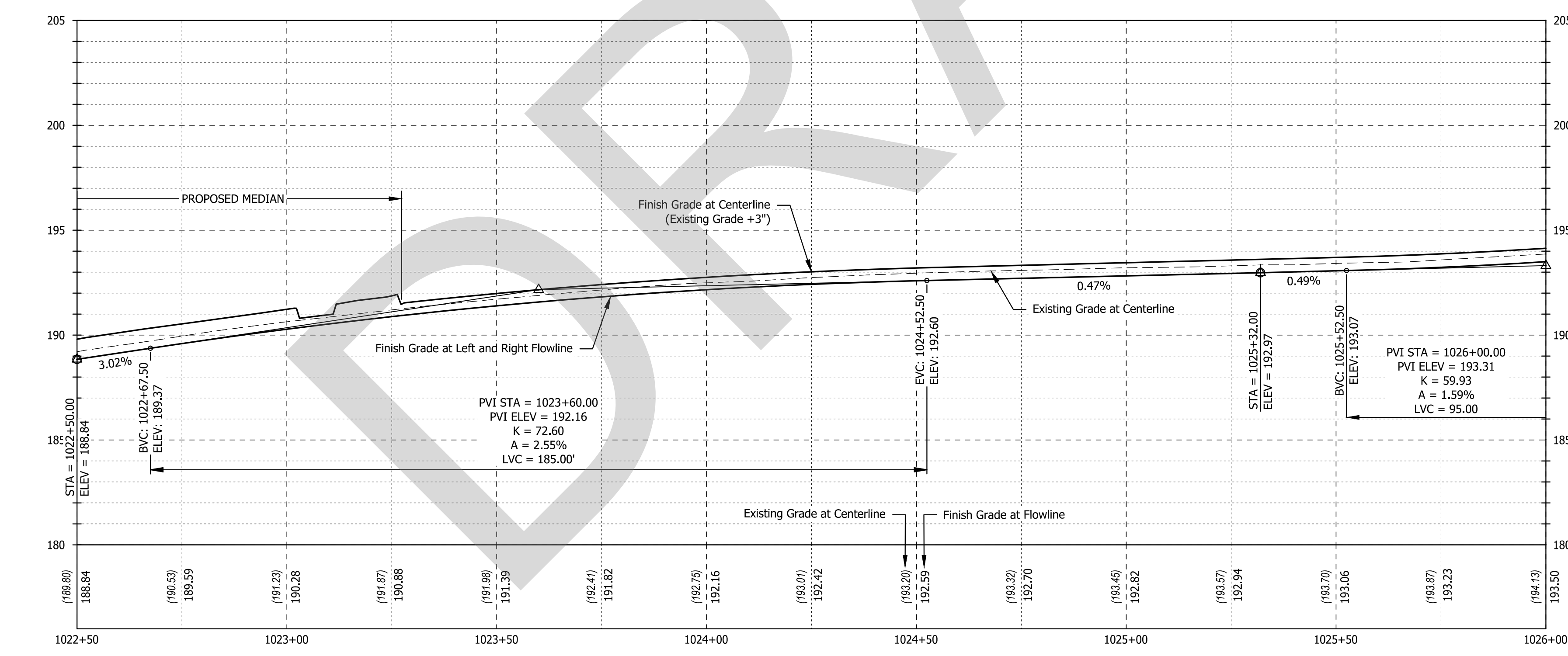
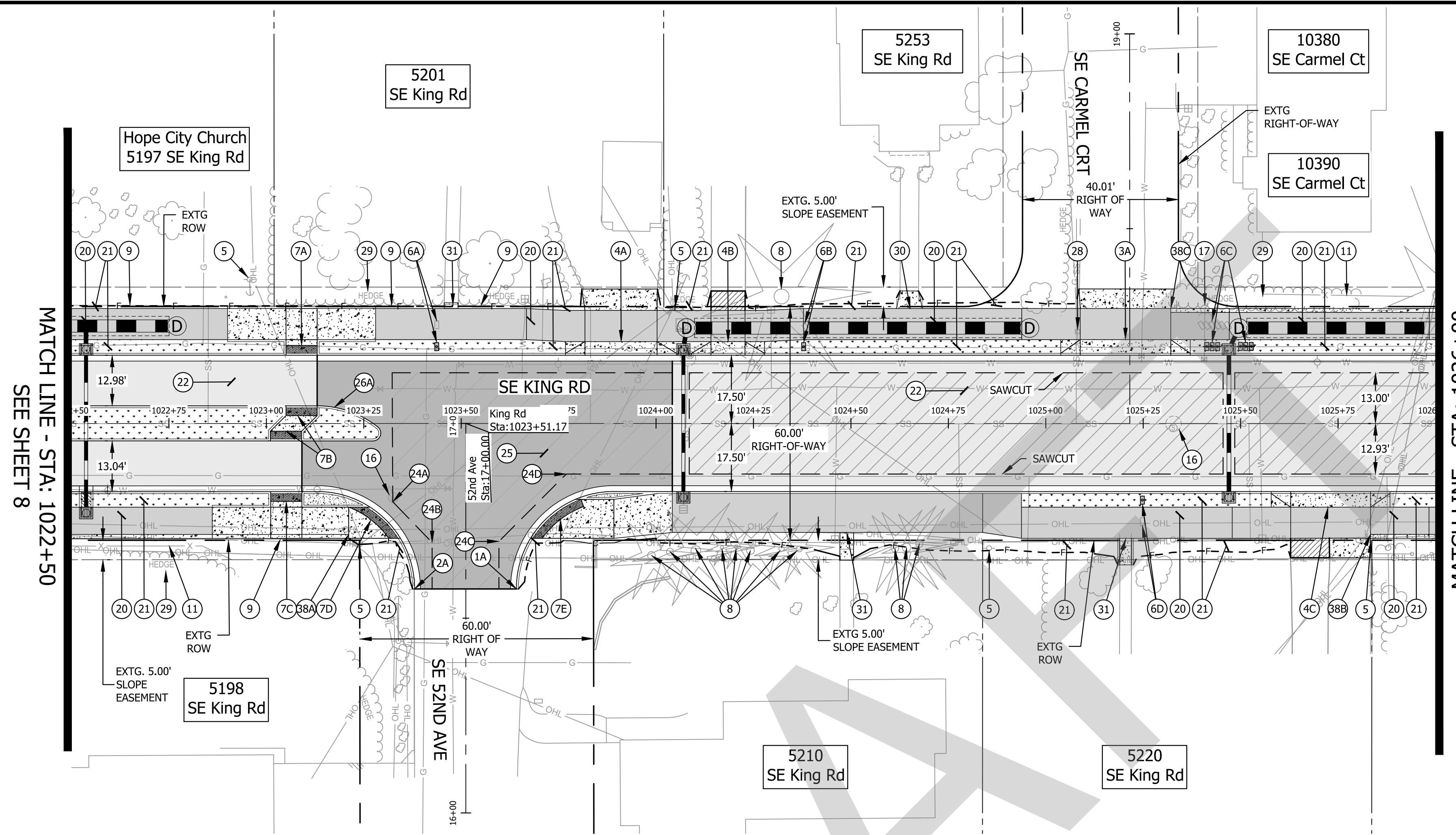
PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO. 8

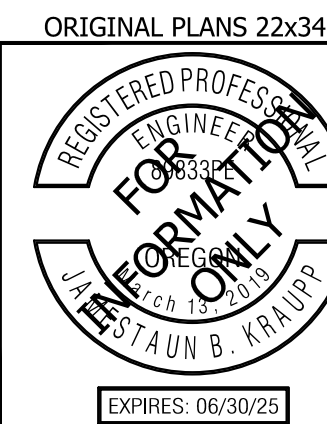
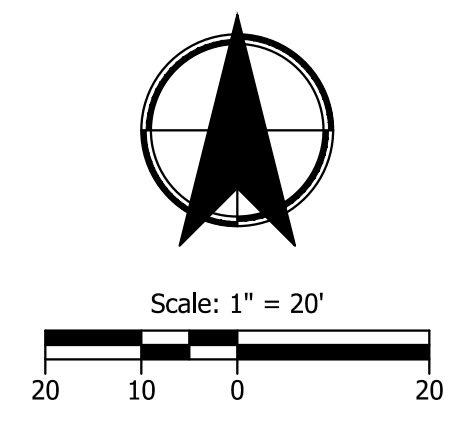
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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

**CONSTRUCTION NOTES**

- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "SE 52ND AVE" STA: 16+09.40, 13.00' RT
- 2 END STANDARD CURB, E=6"  
 2A - "SE 52ND AVE" STA: 16+57.50, 13.14' LT
- 3 CONSTRUCT COMMERCIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-56 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-49 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-49 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-48 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (4 EA.)  
 6A - "KING" STA: 1023+43.72, 19.71' LT.  
 6B - "KING" STA: 1024+37.88, 19.71' LT.  
 6C - "KING" STA: 1025+42.70, 19.75' LT.; 1025+51.32, 19.75' LT.  
 6D - "KING" STA: 1025+24.80, 19.71' RT.
- 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-17 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-17 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-18 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-18 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-18 FOR DETAILED GRADING
- 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 NOTE NOT USED
- 11 PROTECT EXISTING FENCE
- 12 NOTE NOT USED
- 13 NOTE NOT USED
- 14 NOTE NOT USED
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (2 EA.)
- 17 FIRE HYDRANT - SEE WATER PLANS
- 18 NOTE NOT USED
- 19 NOTE NOT USED
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 MAINTAIN AND PROTECT EXISTING CONCRETE PATH
- 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1023+32.43, 20.11' RT.  
 B - "KING" STA: 1023+42.53, 30.60' RT.  
 C - "KING" STA: 1023+59.67, 30.28' RT.  
 D - "KING" STA: 1023+76.96, 13.00' RT.
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
- 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-17 FOR DETAILED GRADING
- 27 NOTE NOT USED
- 28 ADJUST VALVE TO GRADE
- 29 PROTECT EXISTING HEDGES
- 30 RECONNECT TO EXISTING WALK
- 31 RECONNECT & REBUILD CONCRETE STAIRS PER ODOT RD120, SHEET 2B-19
- 32 NOTE NOT USED
- 33 NOTE NOT USED
- 34 NOTE NOT USED
- 35 NOTE NOT USED
- 36 NOTE NOT USED
- 37 NOTE NOT USED
- 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1023+21.11, 28.5' RT.  
 38B - "KING" STA: 1025+83.34, 28.5' RT.  
 38C - "KING" STA: 1025+32.09, 28.5' LT.



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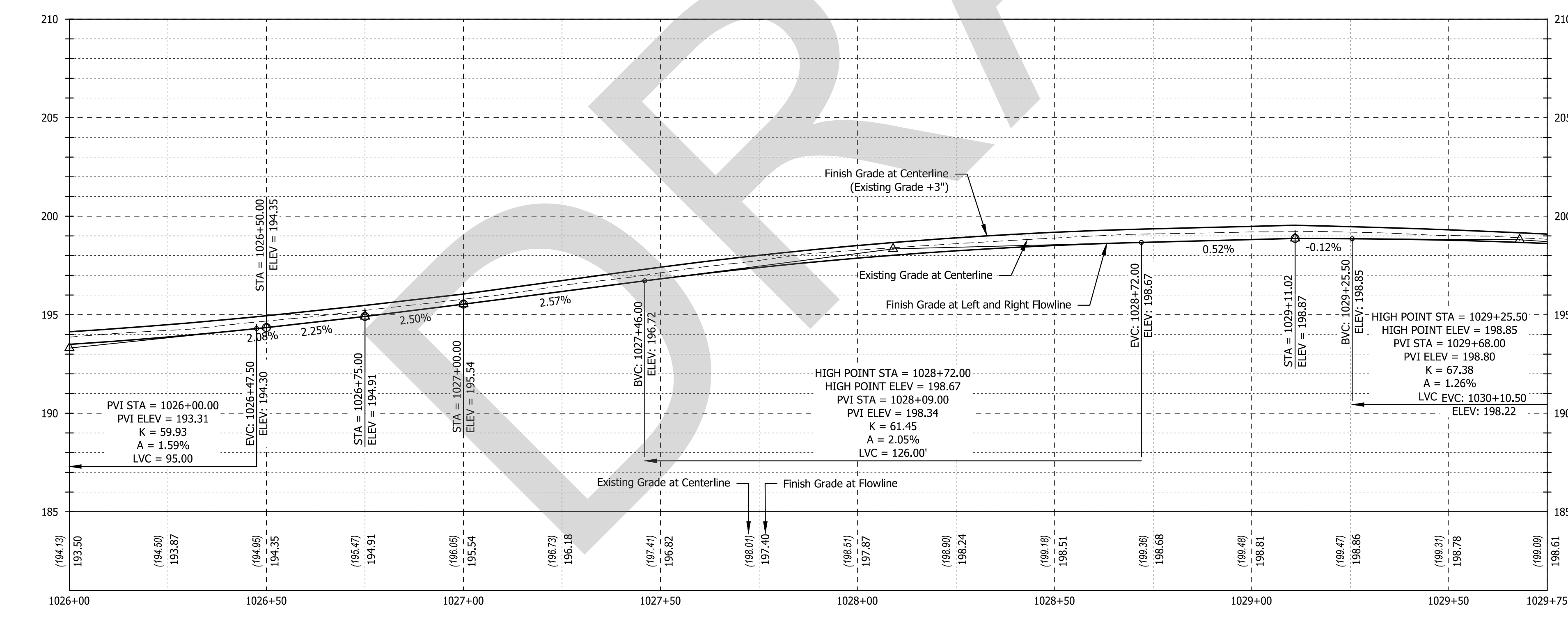
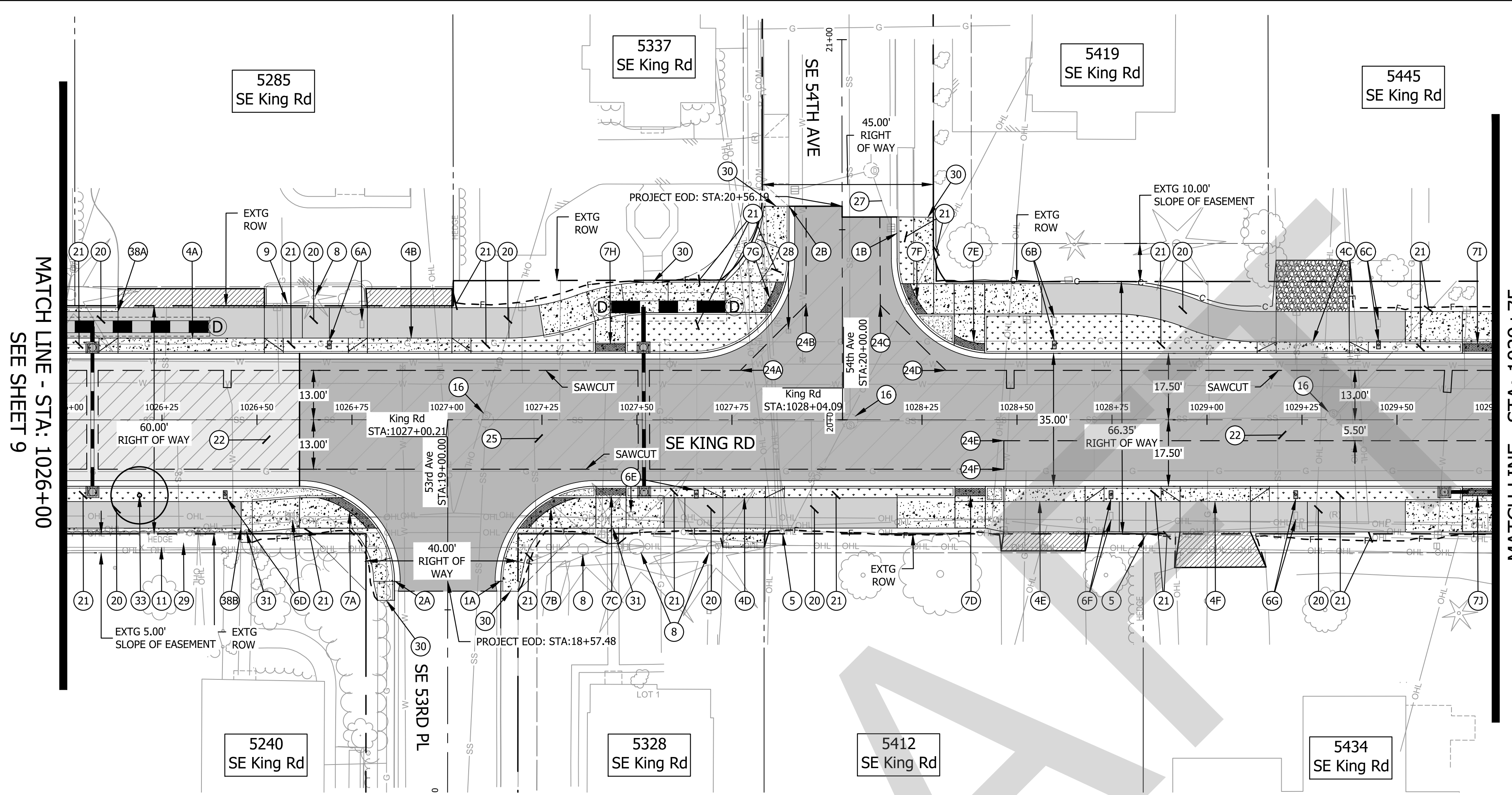
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**9**

EXPIRES: 06/30/25

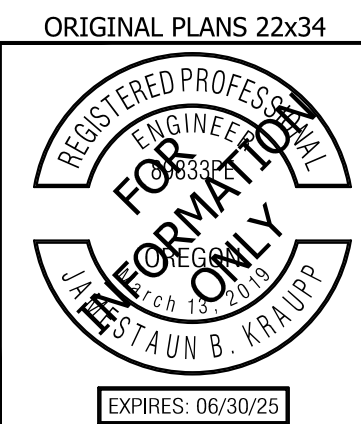
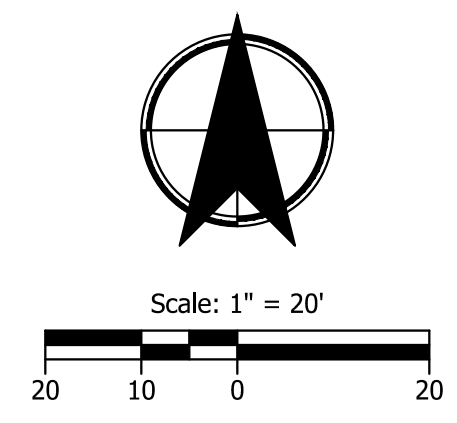




**PROFILE VIEW**  
SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

**CONSTRUCTION NOTES**

- 1 BEGIN STANDARD CURB & GUTTER, E=6"  
PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
MATCH EXISTING  
1A - "SE 53RD PL" STA: 18+57.52, 14.00' RT  
1B - "SE 54TH AVE" STA: 20+49.04, 14.45' RT
- 2 END STANDARD CURB & GUTTER  
2A - "SE 53RD PL" STA: 18+57.48, 14.00' LT  
2B - "SE 54TH AVE" STA: 20+56.19, 14.03' LT
- 3 NOTE NOT USED
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
4A - SEE SHEET 2E-49 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
4B - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
4C - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
4D - SEE SHEET 2E-49 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
4E - SEE SHEET 2E-49 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
4F - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (7 EA.)  
6A - "KING" STA: 1026+69.04, 19.71' LT.  
6B - "KING" STA: 1028+59.83, 19.70' LT.  
6C - "KING" STA: 1029+45.15, 19.70' LT.  
6D - "KING" STA: 1026+41.61, 19.71' RT.  
6E - "KING" STA: 1027+65.61, 19.54' RT.  
6F - "KING" STA: 1028+74.75, 19.71' RT.  
6G - "KING" STA: 1029+23.37, 19.71' RT.
- 7 CONSTRUCT ADA CURB RAMP  
7A - SEE SHEET 2E-20 FOR DETAILED GRADING  
7B - SEE SHEET 2E-20 FOR DETAILED GRADING  
7C - SEE SHEET 2E-20 FOR DETAILED GRADING  
7D - SEE SHEET 2E-21 FOR DETAILED GRADING  
7E - SEE SHEET 2E-19 FOR DETAILED GRADING  
7F - SEE SHEET 2E-19 FOR DETAILED GRADING  
7G - SEE SHEET 2E-19 FOR DETAILED GRADING  
7H - SEE SHEET 2E-19 FOR DETAILED GRADING  
7I - SEE SHEET 2E-22 FOR DETAILED GRADING  
7J - SEE SHEET 2E-23 FOR DETAILED GRADING
- 8 PROTECT EXISTING MAJOR TREE  
SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 NOTE NOT USED
- 11 PROTECT EXISTING FENCE
- 12 NOTE NOT USED
- 13 NOTE NOT USED
- 14 NOTE NOT USED
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (3 EA.)
- 17 NOTE NOT USED
- 18 NOTE NOT USED
- 19 NOTE NOT USED
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 NOTE NOT USED
- 24 SAWCUT ANGLE POINT  
A - "KING" STA: 1027+77.21, 13.00' LT.  
B - "KING" STA: 1027+94.49, 30.27' LT.  
C - "KING" STA: 1028+14.04, 30.16' LT.  
D - "KING" STA: 1028+31.30, 13.00' LT.  
E - "KING" STA: 1028+46.56, 5.50' RT.  
F - "KING" STA: 1028+46.56, 13.00' RT.
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
- 26 NOTE NOT USED
- 27 PROTECT EXISTING WATER QUALITY FACILITY
- 28 ADJUST VALVE TO GRADE
- 29 PROTECT EXISTING HEDGES
- 30 RECONNECT TO EXISTING WALK
- 31 RECONNECT CONCRETE STAIRS PER ODOT RD120, SHEET 2B-19
- 32 NOTE NOT USED



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

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#	REVISION	DATE	APP'D

Submission Date:  
November 12, 2024

Drawn: DFB    Designed: DPB    Checked: JBK

PROJECT NO.  
**C2023-032**

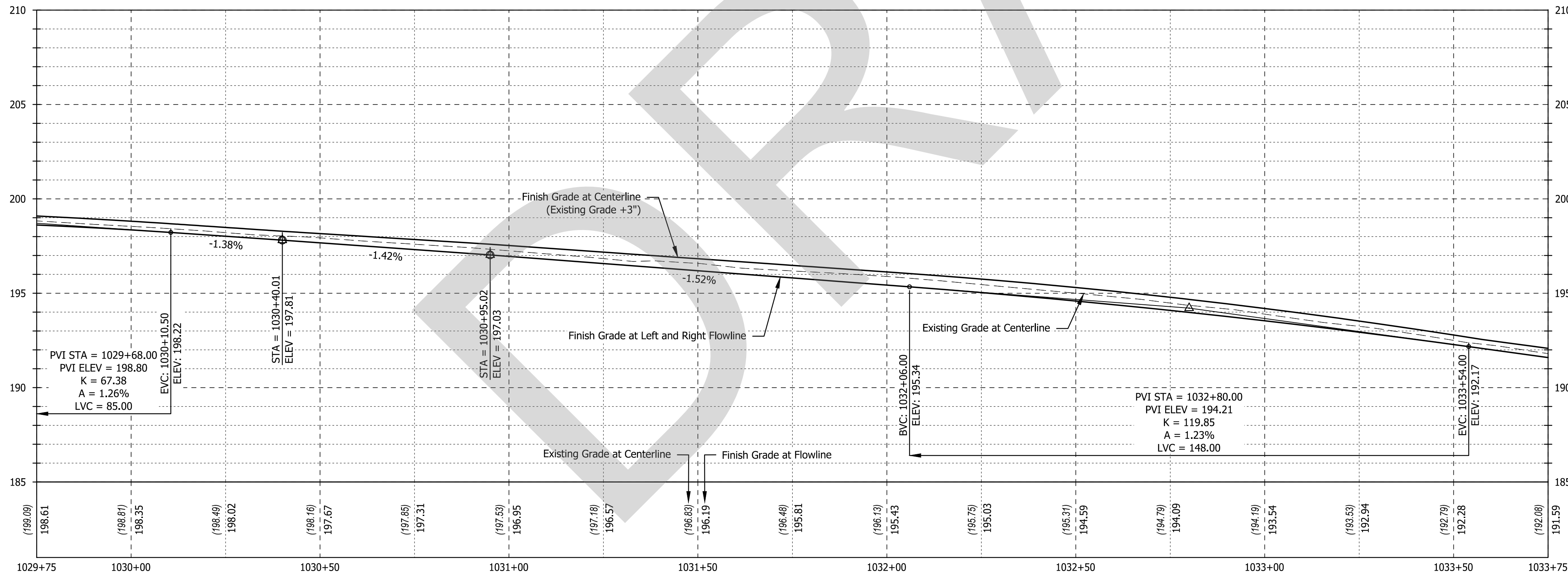
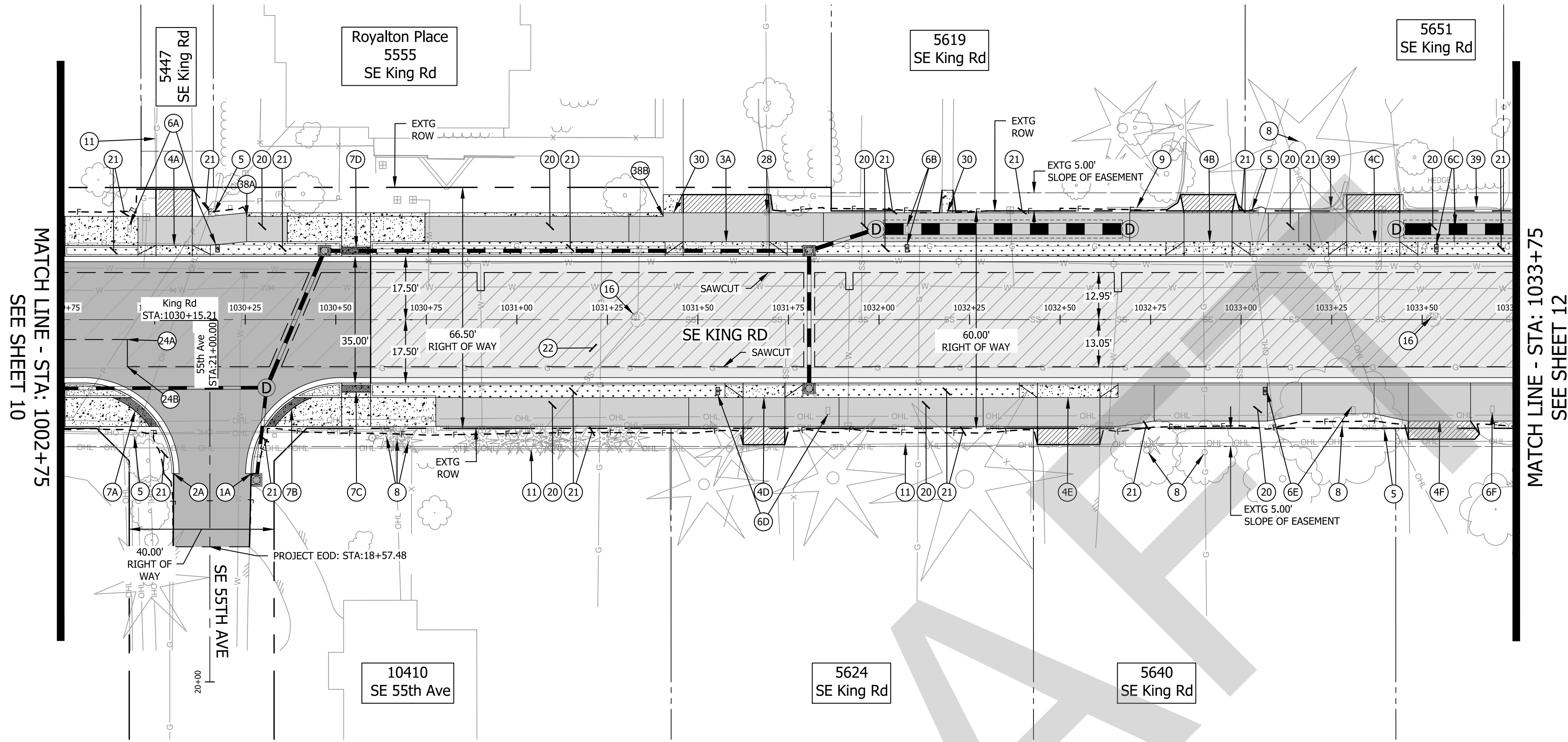
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**10**

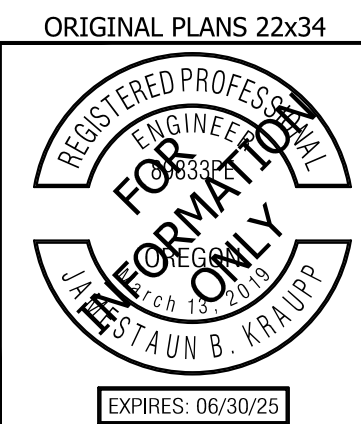
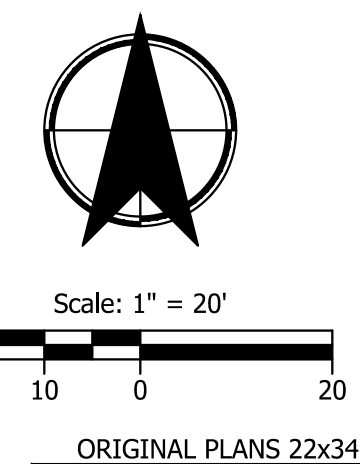
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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

- CONSTRUCTION NOTES**
- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING "SE 55TH AVE" STA: 20+57.50, 11.40' RT
  - 2 END STANDARD CURB & GUTTER "SE 55TH AVE" STA: 20+57.50, 10.00' LT
  - 3 CONSTRUCT COMMERCIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL 3A - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 4 CONSTRUCT RESIDENTIAL SET BACK OR CURB TIGHT DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 & 2B-9 FOR ODOT DRAWING NO. RD740 & RD745 DETAIL 4A - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS 4B - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS 4C - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS 4D - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS 4E - SEE SHEET 2E-50 FOR DETAILED GRADING AND IMPROVEMENT LIMITS 4F - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
  - 5 PROTECT EXISTING UTILITY POLE
  - 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (5 EA.) 6A - "KING" STA: 1030+17.35, 19.70' LT. 6B - "KING" STA: 1032+07.75, 19.70' LT. 6C - "KING" STA: 1033+53.92, 19.71' LT. 6D - "KING" STA: 1031+55.48, 19.71' RT. 6E - "KING" STA: 1033+06.61, 19.71' RT. 6F - "KING" STA: 1033+84.08, 19.36' RT.
  - 7 CONSTRUCT ADA CURB RAMP 7A - SEE SHEET 2E-23 FOR DETAILED GRADING 7B - SEE SHEET 2E-23 FOR DETAILED GRADING 7C - SEE SHEET 2E-23 FOR DETAILED GRADING 7D - SEE SHEET 2E-22 FOR DETAILED GRADING
  - 8 PROTECT EXISTING MAJOR TREE SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
  - 9 NOTE NOT USED
  - 10 NOTE NOT USED
  - 11 PROTECT EXISTING FENCE
  - 12 NOTE NOT USED
  - 13 NOTE NOT USED
  - 14 NOTE NOT USED
  - 15 NOTE NOT USED
  - 16 MINOR ADJUSTMENT TO MANHOLE (2 EA.)
  - 17 NOTE NOT USED
  - 18 NOTE NOT USED
  - 19 NOTE NOT USED
  - 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
  - 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
  - 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
  - 23 NOTE NOT USED
  - 24 SAWCUT ANGLE POINT A - "KING" STA: 1029+92.42, 5.50' RT. B - "KING" STA: 1029+92.42, 13.00' RT.
  - 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
  - 26 NOTE NOT USED
  - 27 NOTE NOT USED
  - 28 ADJUST VALVE TO GRADE
  - 29 PROTECT EXISTING HEDGES
  - 30 RECONNECT TO EXISTING WALK
  - 31 RECONNECT CONCRETE STAIRS PER ODOT RD120, SHEET 2B-19
  - 32 PLANT KOUSA DOGWOOD (CORNUS KOUSA) TREE
  - 33 PLANT VINE MAPLE (ACER CIRCINATUM) TREE
  - 34 NOTE NOT USED
  - 35 NOTE NOT USED
  - 36 NOTE NOT USED
  - 37 NOTE NOT USED
  - 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES) 38A - "KING" STA: 1030+25.35, 28.5' LT. 38B - "KING" STA: 1031+40.42, 28.5' RT.
  - 39 REBUILD EXISTING MINOR RETAINING WALL



**CITY OF MILWAUKIE**

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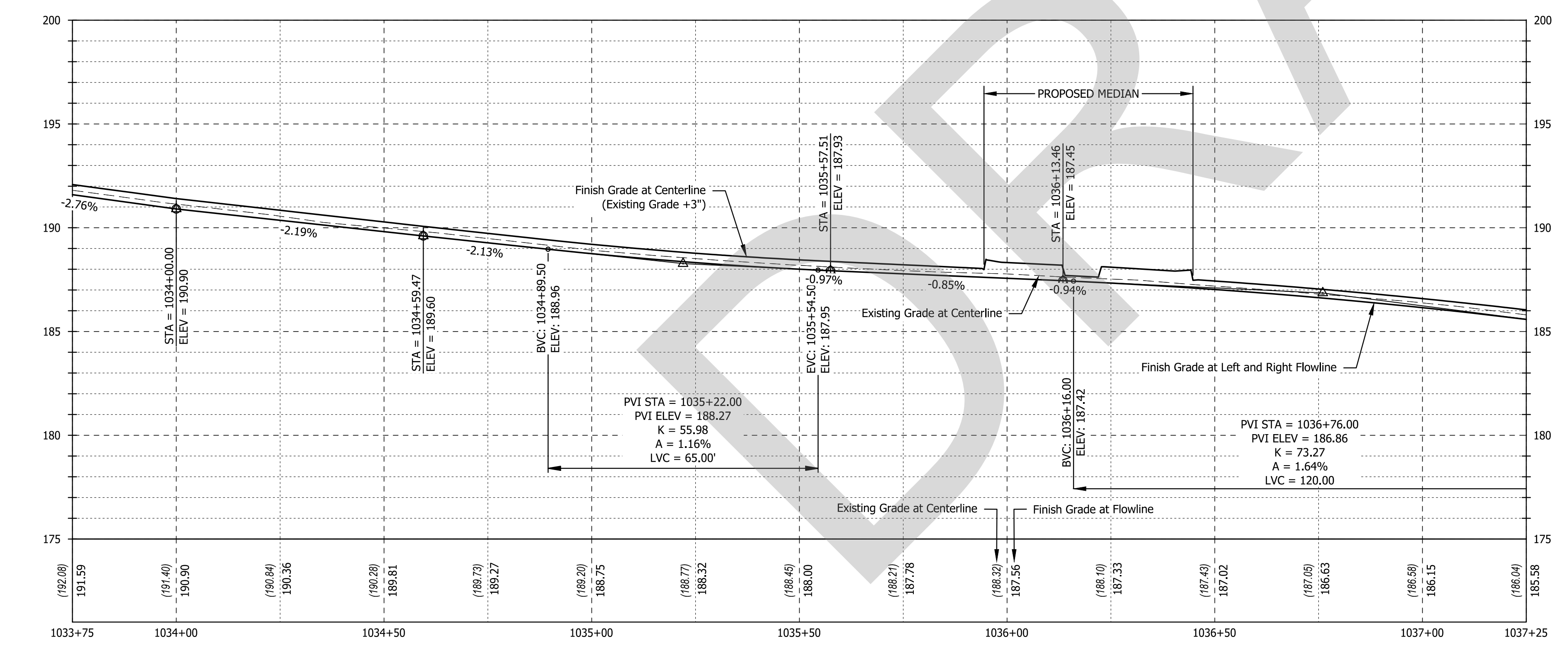
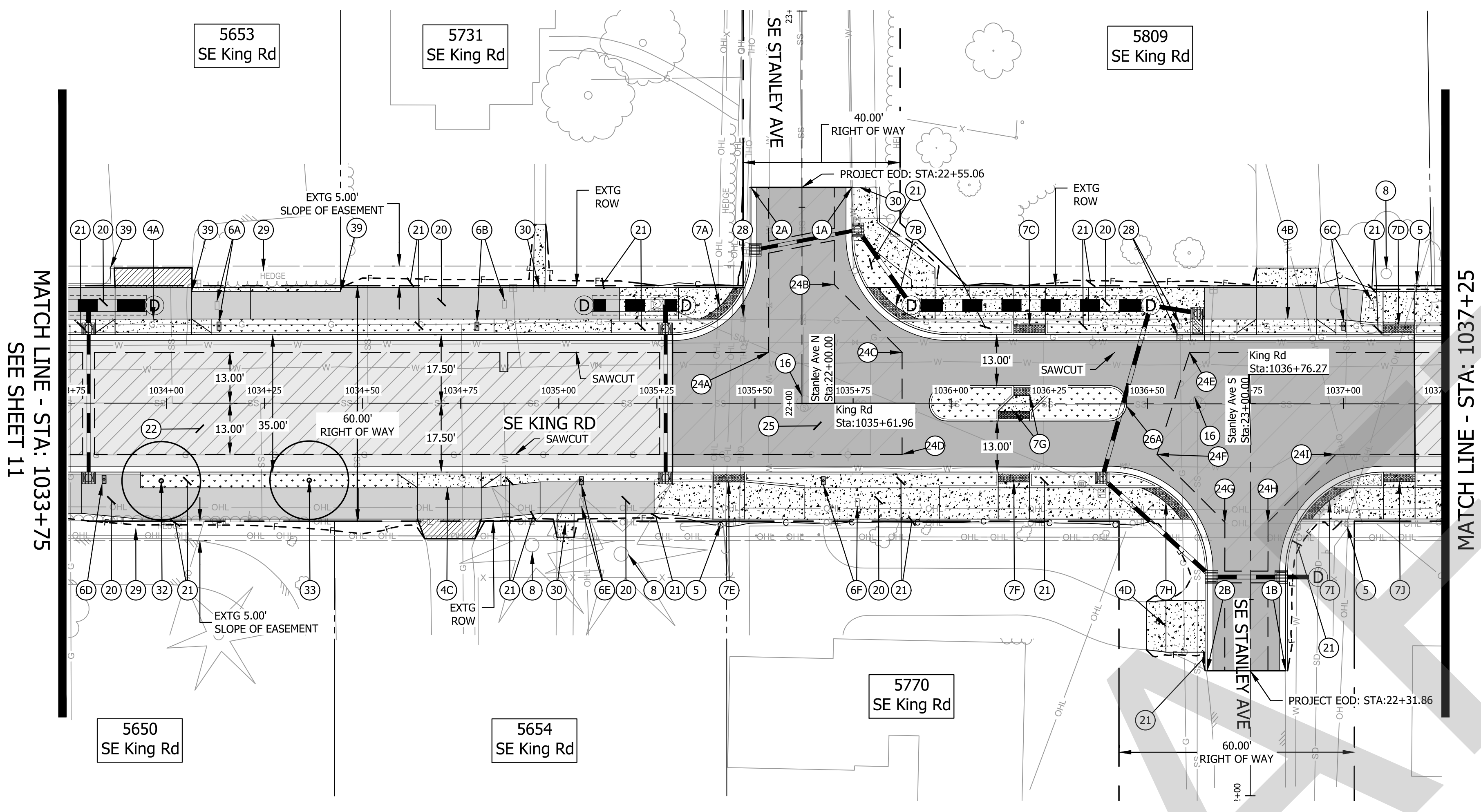
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**11**

EXPIRES: 06/30/25

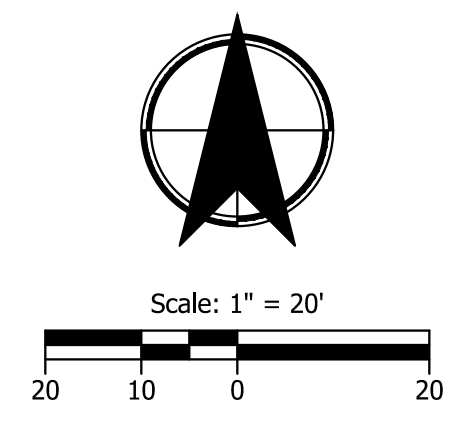
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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

**CONSTRUCTION NOTES**

- 1 BEGIN STANDARD CURB & GUTTER, E=6"  
 PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 MATCH EXISTING  
 1A - "SE STANLEY AVE" STA: 22+55.06, 12.75' RT  
 1B - "SE STANLEY AVE" STA: 22+31.86, 9.00' RT
- 2 END STANDARD CURB & GUTTER  
 2A - "SE STANLEY AVE" STA: 22+55.06, 13.00' LT  
 2B - "SE STANLEY AVE" STA: 22+31.86, 11.00' LT
- 3 NOTE NOT USED
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
 SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4D - SEE SHEET 2E-51 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100,  
 SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (5 EA.)  
 6A - "KING" STA: 1034+13.38, 19.71' LT.  
 6B - "KING" STA: 1034+79.13, 19.68' LT.  
 6C - "KING" STA: 1037+00.07, 19.70' LT.  
 6D - "KING" STA: 1033+84.08, 19.36' RT.  
 6E - "KING" STA: 1035+05.77, 19.71' RT.  
 6F - "KING" STA: 1035+67.42, 19.71' RT.
- 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-24 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-24 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-24 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-27 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-25 FOR DETAILED GRADING  
 7F - SEE SHEET 2E-26 FOR DETAILED GRADING  
 7G - SEE SHEET 2E-26 FOR DETAILED GRADING  
 7H - SEE SHEET 2E-26 FOR DETAILED GRADING  
 7I - SEE SHEET 2E-28 FOR DETAILED GRADING  
 7J - SEE SHEET 2E-28 FOR DETAILED GRADING
- 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS  
 AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 NOTE NOT USED
- 11 PROTECT EXISTING FENCE
- 12 NOTE NOT USED
- 13 NOTE NOT USED
- 14 NOTE NOT USED
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (2 EA.)
- 17 NOTE NOT USED
- 18 NOTE NOT USED
- 19 NOTE NOT USED
- 20 INSTALL POROUS PAVEMENT PATH  
 PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA  
 MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT  
 PER TYPICALS (2A SERIES)
- 23 NOTE NOT USED
- 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1035+53.46, 13.00' LT.  
 B - "KING" STA: 1035+70.21, 30.28' LT.  
 C - "KING" STA: 1035+87.49, 13.00' LT.  
 D - "KING" STA: 1035+87.49, 13.00' RT.  
 E - "KING" STA: 1036+60.76, 13.00' LT.  
 F - "KING" STA: 1036+52.48, 13.00' RT.  
 G - "KING" STA: 1036+69.76, 30.54' RT.  
 H - "KING" STA: 1036+80.76, 30.27' RT.  
 I - "KING" STA: 1036+98.04, 13.00' RT.
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION  
 PER TYPICALS (2A SERIES)
- 26 INSTALL TYPE A RAISED MEDIAN  
 PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-26 FOR DETAILED GRADING
- 27 NOTE NOT USED
- 28 ADJUST VALVE TO GRADE
- 29 PROTECT EXISTING HEDGES
- 30 RECONNECT TO EXISTING WALK
- 31 NOTE NOT USED
- 32 PLANT KOUSA DOGWOOD (CORNUS KOUSA) TREE
- 33 PLANT VINE MAPLE (ACER CIRCINATUM) TREE
- 34 NOTE NOT USED
- 35 NOTE NOT USED
- 36 NOTE NOT USED
- 37 NOTE NOT USED
- 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1034+06.38, 28.5' LT.  
 38B - "KING" STA: 1034+44.31, 28.5' LT.
- 39 REBUILD EXISTING MINOR RETAINING WALL



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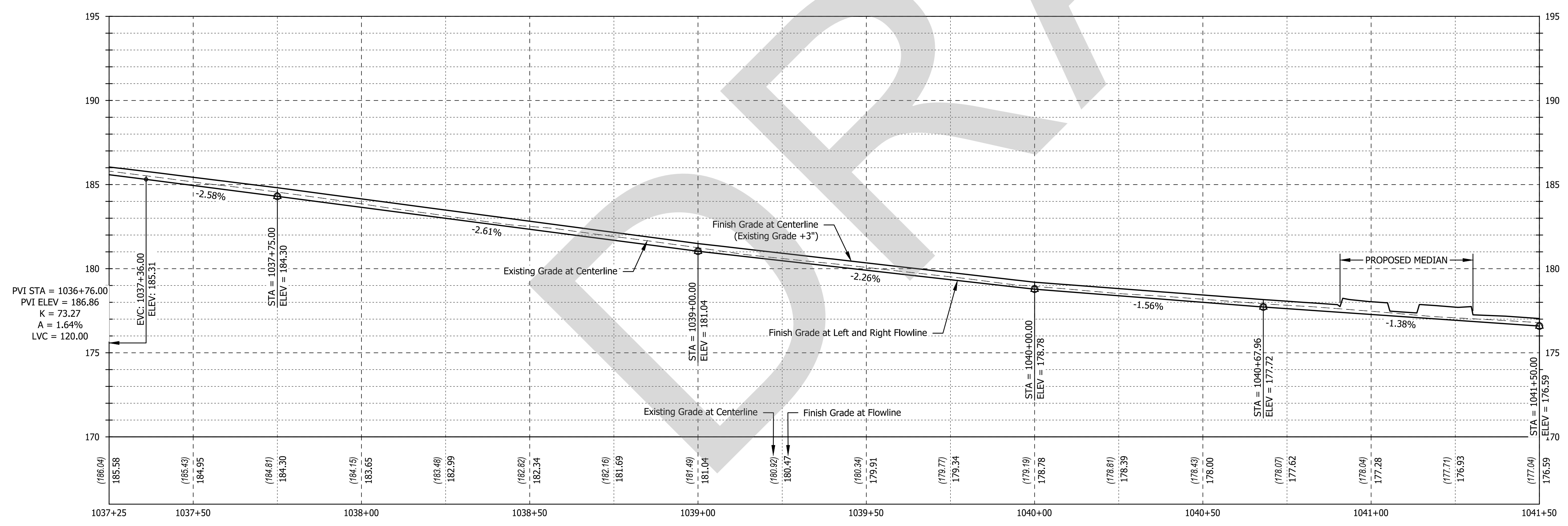
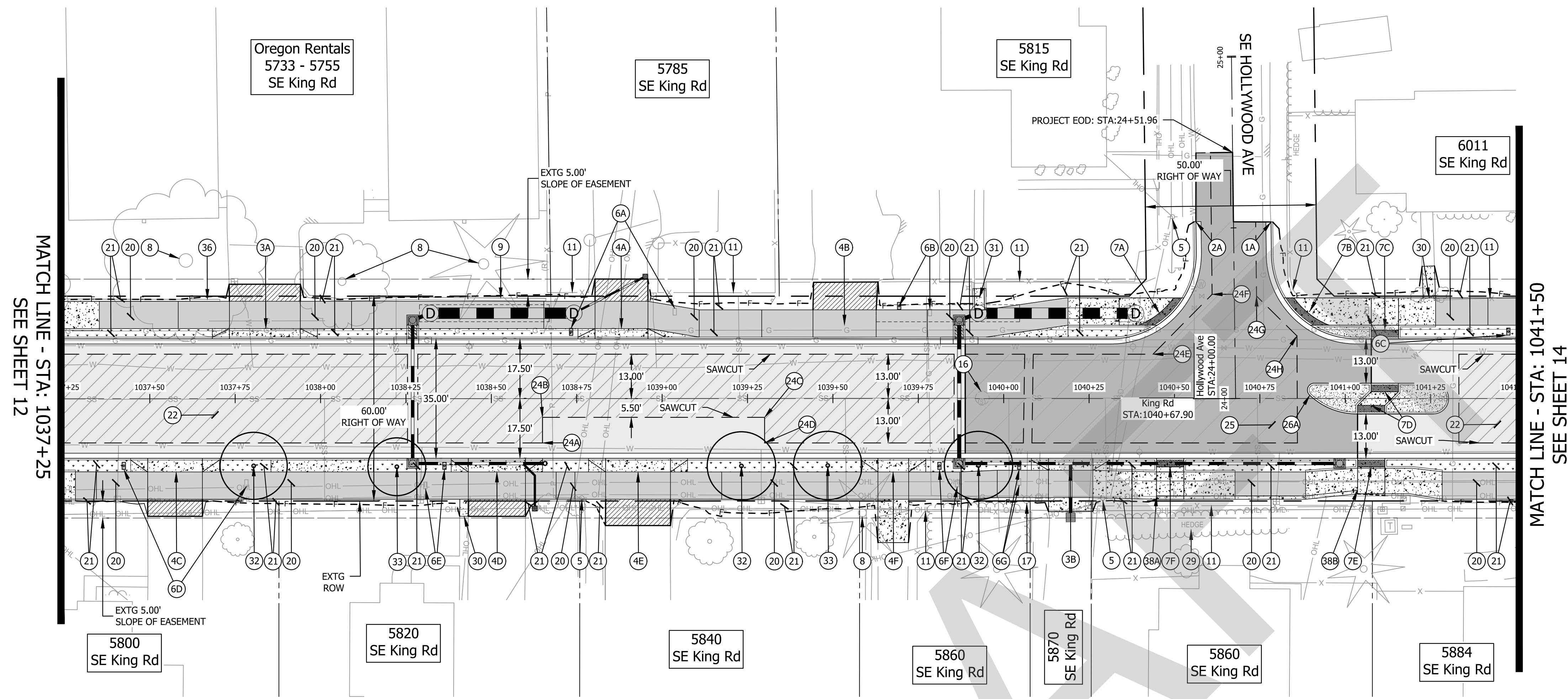
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**12**

EXPIRES: 06/30/25

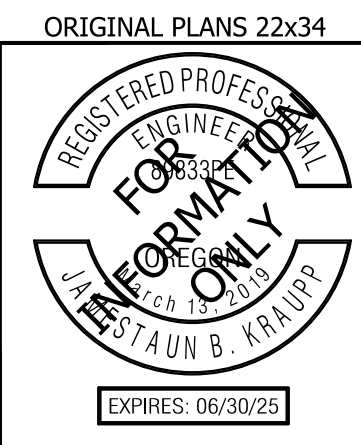
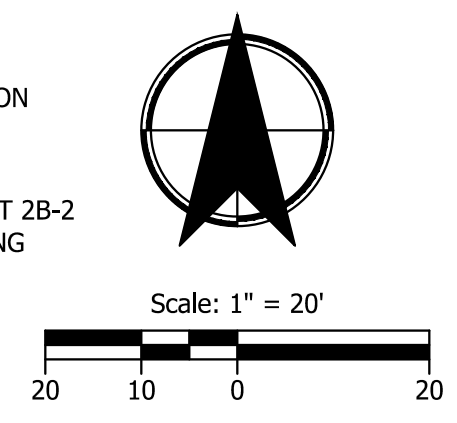
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PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

CONSTRUCTION NOTES

- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 1A - "SE HOLLYWOOD AVE" STA: 24+51.95, 11.00' RT  
 2A - "SE HOLLYWOOD AVE" STA: 24+51.96, 11.00' LT
- 2 END STANDARD CURB & GUTTER
- 3 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3B - SEE SHEET 2E-53 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-53 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-53 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4C - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4D - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4E - SEE SHEET 2E-52 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4F - SEE SHEET 2E-53 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (7 EA.)  
 6A - "KING" STA: 1038.73.35, 19.54' LT.  
 6B - "KING" STA: 1039+69.40, 27.14' LT.  
 6C - "KING" STA: 1041+47.76, 19.62' LT.  
 6D - "KING" STA: 1037+42.41, 19.70' RT.  
 6E - "KING" STA: 1038+36.27, 19.71' RT.  
 6F - "KING" STA: 1039+81.20, 19.71' RT.  
 6G - "KING" STA: 1040+04.51, 19.71' RT.
- 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-29 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-29 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-29 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-30 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-30 FOR DETAILED GRADING  
 7F - SEE SHEET 2E-30 FOR DETAILED GRADING
- 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 NOTE NOT USED
- 11 PROTECT EXISTING FENCE
- 12 NOTE NOT USED
- 13 NOTE NOT USED
- 14 NOTE NOT USED
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (1 EA.)
- 17 NOTE NOT USED
- 18 NOTE NOT USED
- 19 NOTE NOT USED
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 NOTE NOT USED
- 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1038+64.98, 13.00' RT.  
 B - "KING" STA: 1038+64.98, 5.50' RT.  
 C - "KING" STA: 1039+30.00, 5.50' RT.  
 D - "KING" STA: 1039+30.00, 13.00' RT.  
 E - "KING" STA: 1040+43.70, 13.00' LT.  
 F - "KING" STA: 1040+61.03, 30.53' LT.  
 G - "KING" STA: 1040+74.03, 30.03' LT.  
 H - "KING" STA: 1040+85.86, 18.34' LT.
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
- 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-30 FOR DETAILED GRADING
- 27 NOTE NOT USED
- 28 NOTE NOT USED
- 29 PROTECT EXISTING HEDGES
- 30 RECONNECT TO EXISTING WALK
- 31 RECONNECT CONCRETE STAIRS PER ODOT RD120, SHEET 2B-20
- 32 PLANT KOUSA DOGWOOD (CORNUS KOUSA) TREE
- 33 PLANT VINE MAPLE (ACER CIRCINATUM) TREE
- 34 NOTE NOT USED
- 35 NOTE NOT USED
- 36 REMOVE MINOR RETAINING WALL
- 37 NOTE NOT USED
- 38 INSTALL THICKENED EDGE CURB PER TYPICALS (2A SERIES)  
 38A - "KING" STA: 1040+44.73, 28.50' RT.  
 38B - "KING" STA: 1041+03.60, 26.75' RT.



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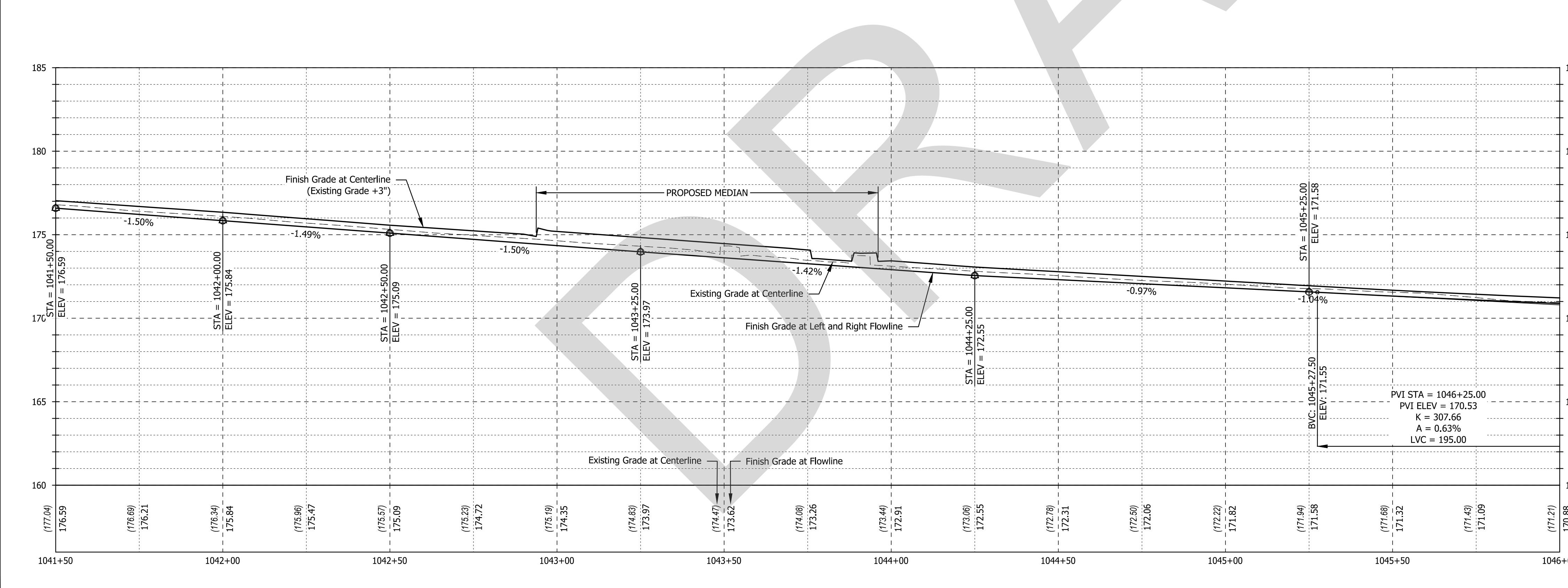
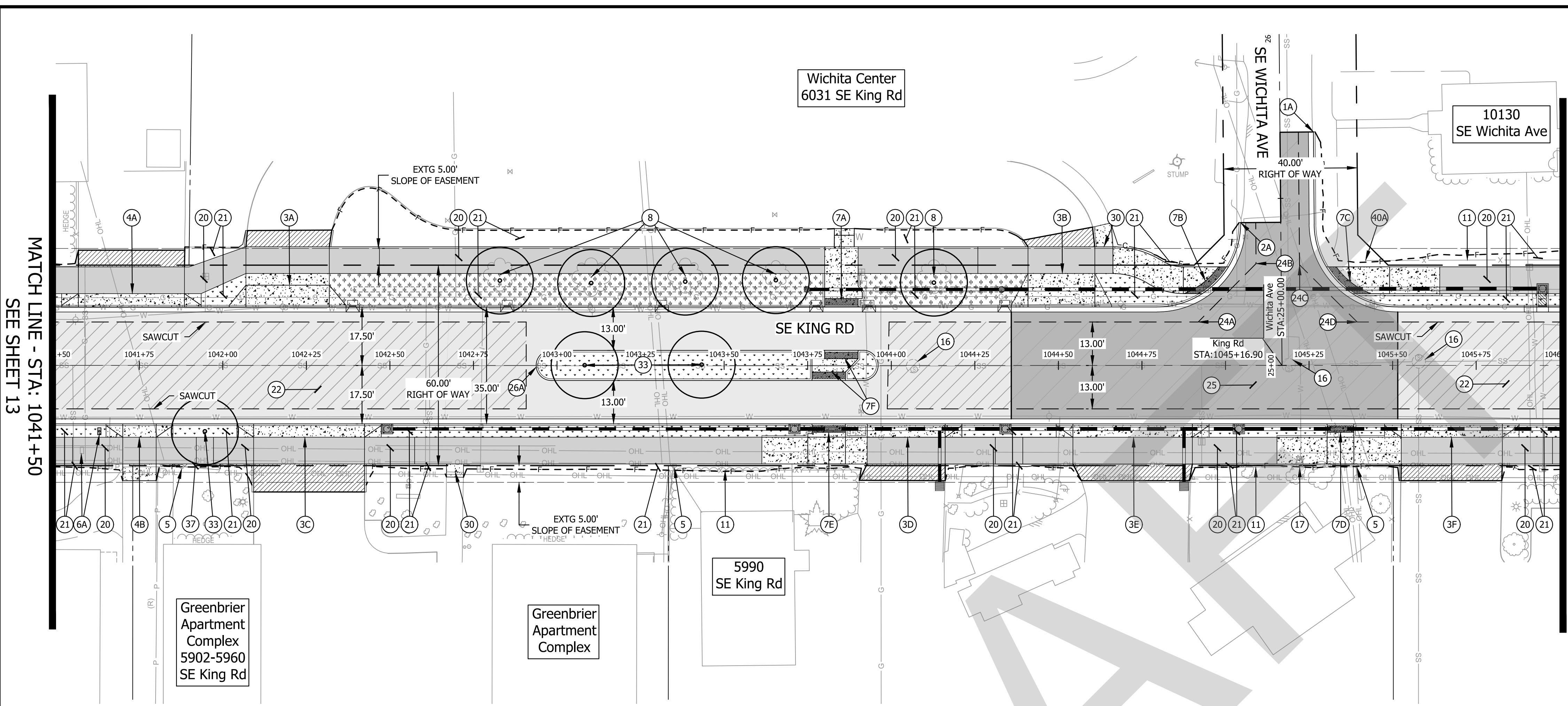
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**13**

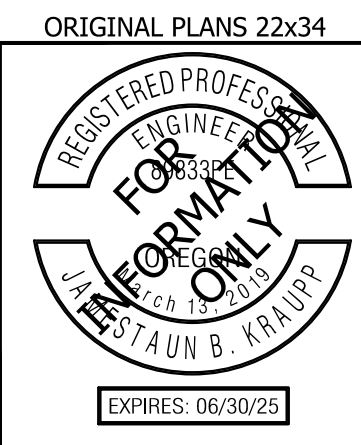
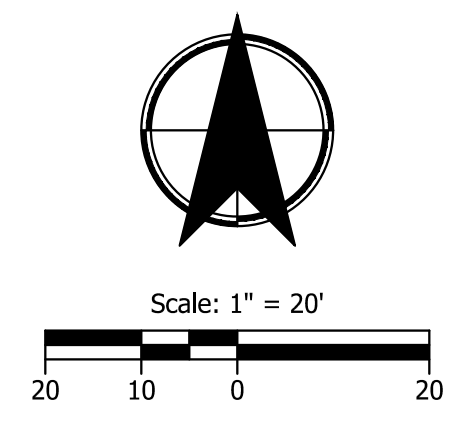
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**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

**CONSTRUCTION NOTES**

- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "SE WICHITA AVE" STA: 25+69.79, 10.00' RT
- 2 END STANDARD CURB & GUTTER  
 2A - "SE WICHITA AVE" STA: 25+42.83, 12.00' LT
- 3 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
 SE - SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3B - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3C - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3D - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3E - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3F - SEE SHEET 2E-55 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY  
 SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-54 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-53 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (1 EA.)  
 6A -
- 7 CONSTRUCT ADA CURB RAMP  
 7A - SEE SHEET 2E-31 FOR DETAILED GRADING  
 7B - SEE SHEET 2E-33 FOR DETAILED GRADING  
 7C - SEE SHEET 2E-33 FOR DETAILED GRADING  
 7D - SEE SHEET 2E-34 FOR DETAILED GRADING  
 7E - SEE SHEET 2E-32 FOR DETAILED GRADING  
 7F - SEE SHEET 2E-32 FOR DETAILED GRADING
- 8 REMOVE EXISTING TREE  
 PLANT SWAMP MAPLE (ACER RUBRUM) TREE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 BEGIN SHARED USE PATH
- 11 PROTECT EXISTING FENCE
- 12 NOTE NOT USED
- 13 NOTE NOT USED
- 14 NOTE NOT USED
- 15 NOTE NOT USED
- 16 MINOR ADJUSTMENT TO MANHOLE (3 EA.)
- 17 NOTE NOT USED
- 18 NOTE NOT USED
- 19 NOTE NOT USED
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 NOTE NOT USED
- 24 SAWCUT ANGLE POINT  
 A - "KING" STA: 1044+91.85, 13.00' LT.  
 B - "KING" STA: 1045+09.16, 30.47' LT.  
 C - "KING" STA: 1045+22.16, 30.09' LT.  
 D - "KING" STA: 1045+39.41, 13.00' LT.
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
- 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2 26A - SEE SHEET 2E-31 FOR DETAILED GRADING
- 27 NOTE NOT USED
- 28 NOTE NOT USED
- 29 NOTE NOT USED
- 30 RECONNECT TO EXISTING WALK
- 31 NOTE NOT USED
- 32 NOTE NOT USED
- 33 PLANT VINE MAPLE (ACER CIRCINATUM) TREE
- 34 NOTE NOT USED
- 35 NOTE NOT USED
- 36 NOTE NOT USED
- 37 INSTALL AGGREGATE FROM BACK OF SIDEWALK TO FILL LIMIT
- 38 NOTE NOT USED
- 39 NOTE NOT USED
- 40 REMOVE EXISTING FENCE  
 INSTALL NEW FENCE MATCHING EXISTING MATERIAL  
 A - "KING" STA: 1045+41.90, 31.38' LT.



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**  
 851 SW 6TH AVENUE, SUITE 600  
 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

#	DATE	REVISION	APP'D

Submission Date:  
November 12, 2024

Drawn: DFB	Designed: DPB	Checked: JBK
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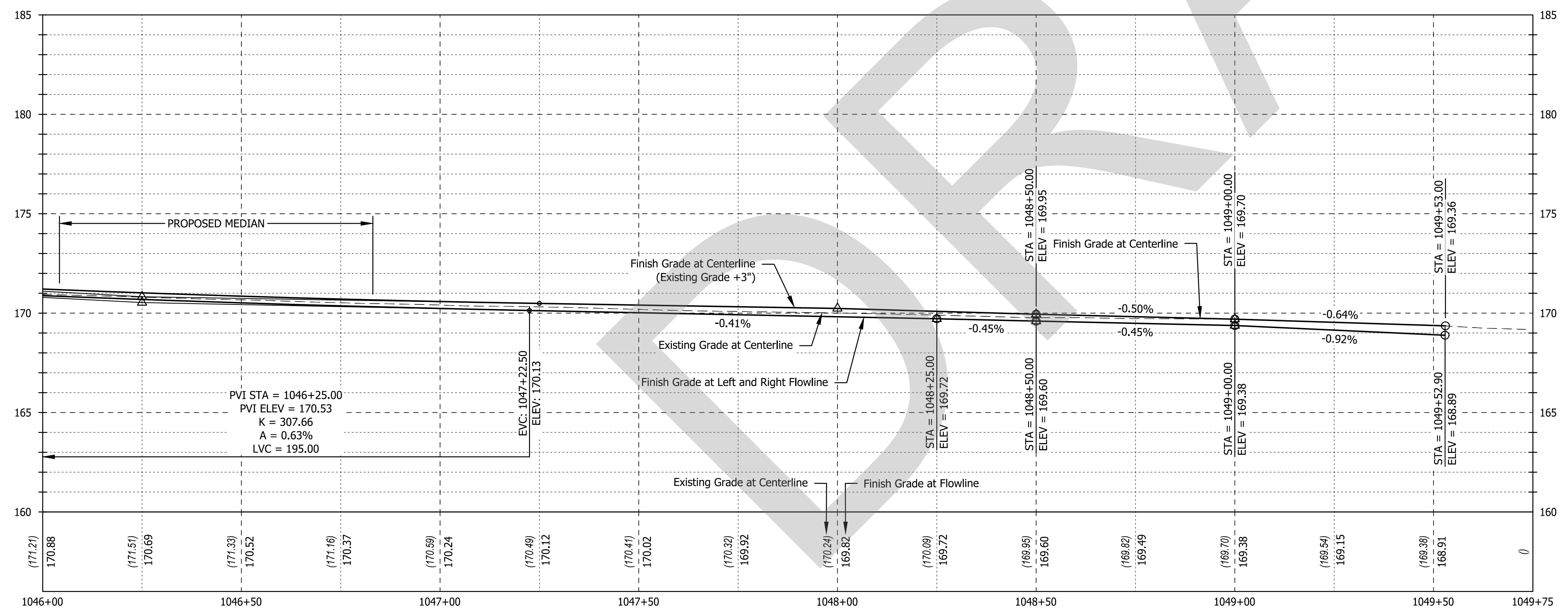
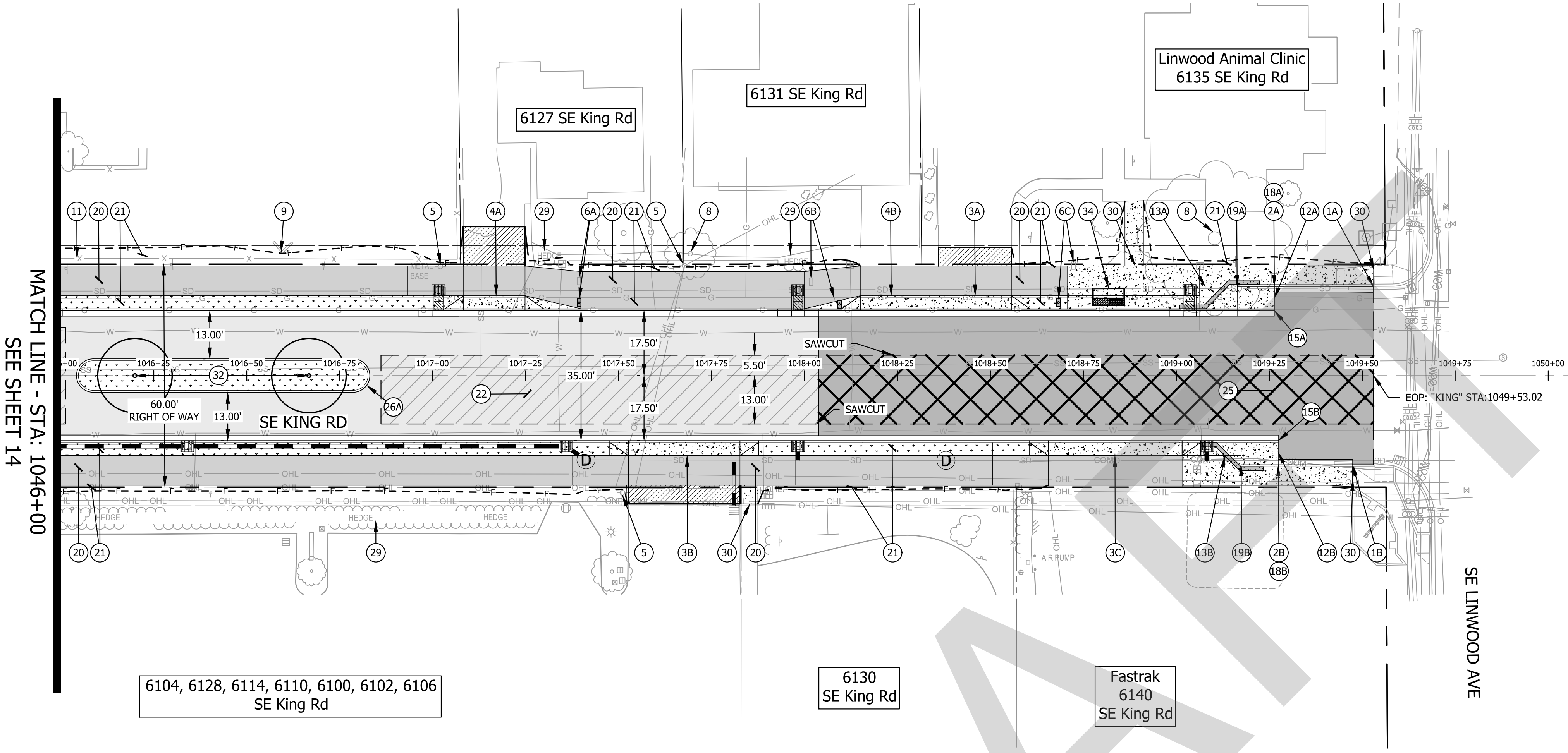
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

**STREET PLANS**

SHEET NO.  
**14**

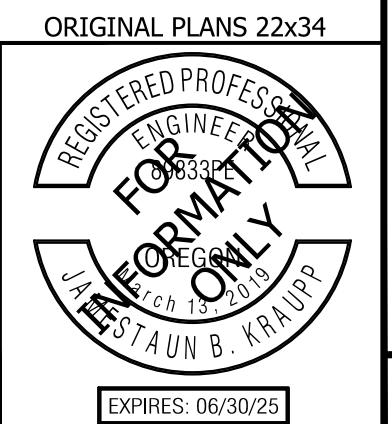
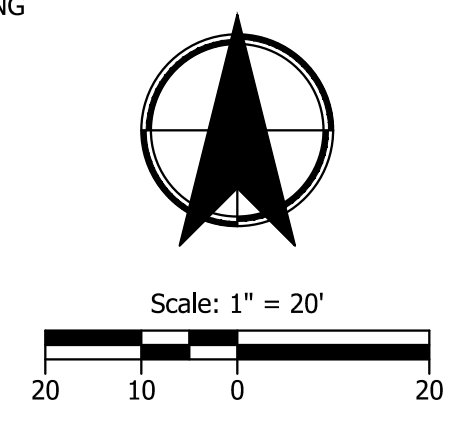
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 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\Street Plans-28175.dwg



PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

CONSTRUCTION NOTES

- 1 BEGIN STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1 MATCH EXISTING  
 1A - "KING" STA: 1049+53.02, 23.88' LT.  
 1B - "KING" STA: 1049+47.40, 24.00' RT.
- 2 END STANDARD CURB & GUTTER  
 2A - "KING" STA: 1049+16.34, 23.94' LT.  
 2B - "KING" STA: 1048+25.52, 24.00' RT.
- 3 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 3A - SEE SHEET 2E-55 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3B - SEE SHEET 2E-55 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 3C - SEE SHEET 2E-56 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 4 CONSTRUCT RESIDENTIAL SET BACK DRIVEWAY APPROACH AND DRIVEWAY SEE SHEET 2B-7 FOR ODOT DRAWING NO. RD740 DETAIL  
 4A - SEE SHEET 2E-55 FOR DETAILED GRADING AND IMPROVEMENT LIMITS  
 4B - SEE SHEET 2E-55 FOR DETAILED GRADING AND IMPROVEMENT LIMITS
- 5 PROTECT EXISTING UTILITY POLE
- 6 REMOVE AND RE-INSTALL EXISTING MAILBOX PER ODOT STANDARD DRAWING RD100, SHEET 2B-19, TO PROPOSED LOCATIONS ON NEW POST AND FOUNDATION (1 EA.)  
 6A - "KING" STA:  
 6B - "KING" STA:  
 6C - "KING" STA:
- 7 NOTE NOT USED
- 8 PROTECT EXISTING MAJOR TREE  
 SEE GRADING AND EROSION CONTROL PLANS (EC SERIES) FOR PROTECTION LIMITS AND DETAILS; SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION AND GUIDANCE
- 9 PROTECT EXISTING MINOR RETAINING WALL
- 10 BEGIN SHARED USE PATH
- 11 PROTECT EXISTING FENCE
- 12 CONSTRUCT CONCRETE BIKE RAMP TRANSITION  
 12A - SEE SHEET 2E-37 FOR DETAILED GRADING  
 12B - SEE SHEET 2E-36 FOR DETAILED GRADING
- 13 INSTALL TEKWAY TACTICAL WARNING DELINEATOR  
 SEE SHEET 2B-13 FOR STANDARD DETAILS  
 13A - SEE SHEET 2E-37 FOR DETAILED LIMITS  
 13B - SEE SHEET 2E-36 FOR DETAILED LIMITS
- 14 NOTE NOT USED
- 15 END STANDARD CURB & GUTTER, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 15A - "KING" STA: 1049+26.34, 17.50' LT.  
 15B - "KING" STA: 1049+27.40, 17.50' RT.
- 16 NOTE NOT USED
- 17 NOTE NOT USED
- 18 BEGIN STANDARD CURB, E=0" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 18A - "KING" STA: 1000+61.16, 24.00' LT.  
 18B - "KING" STA: 1000+62.13, 24.00' RT.
- 19 END STANDARD CURB, E=6" PER ODOT STANDARD DRAWING RD700, SHEET 2B-1  
 19A - "KING" STA: 1000+61.16, 24.00' LT.  
 19B - "KING" STA: 1000+62.13, 24.00' RT.
- 20 INSTALL POROUS PAVEMENT PATH PER TYPICALS (2A SERIES)
- 21 INSTALL LANDSCAPE FOR AREA MATCH EXISTING LANDSCAPE MATERIAL
- 22 INSTALL POROUS PAVEMENT PER TYPICALS (2A SERIES)
- 23 MAINTAIN AND PROTECT EXISTING CONCRETE PATH
- 24 NOTE NOT USED
- 25 INSTALL IMPERVIOUS PAVEMENT INTERSECTION PER TYPICALS (2A SERIES)
- 26 INSTALL TYPE A RAISED MEDIAN PER ODOT STANDARD DRAWING RD705, SHEET 2B-2  
 26A - SEE SHEET 2E-35 FOR DETAILED GRADING
- 27 NOTE NOT USED
- 28 NOTE NOT USED
- 29 NOTE NOT USED
- 30 RECONNECT TO EXISTING WALK
- 31 NOTE NOT USED
- 32 PLANT KOUSA DOGWOOD (CORNUS KOUSA) TREE
- 33 NOTE NOT USED
- 34 TRI-MET STRUCTURE TO BE INSTALLED BY OTHERS



**CITY OF MILWAUKIE**

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Drawn: DFB	Designed: DPB	Checked: JBK
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PROJECT NO.  
**C2023-032**

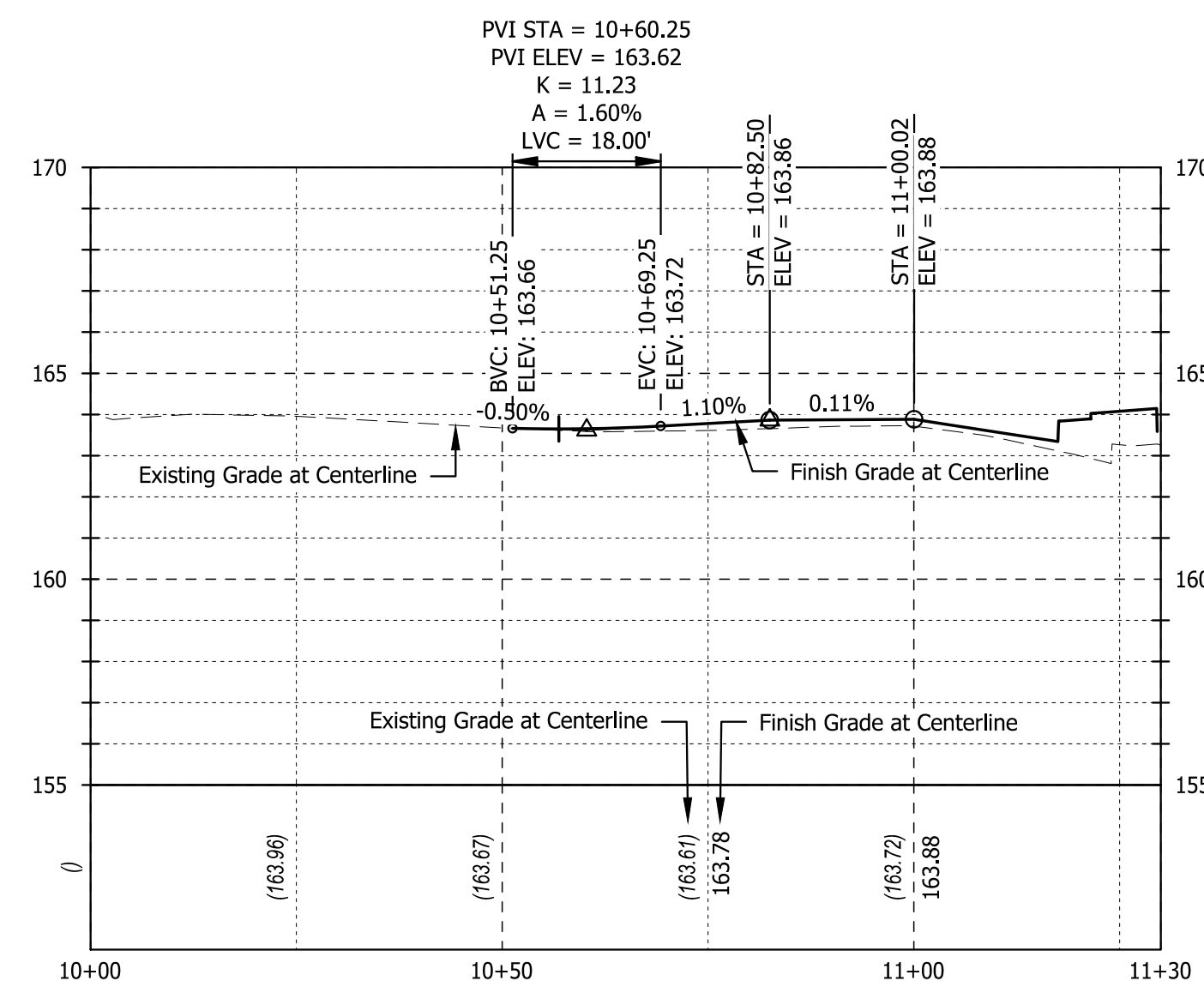
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO.  
**15**

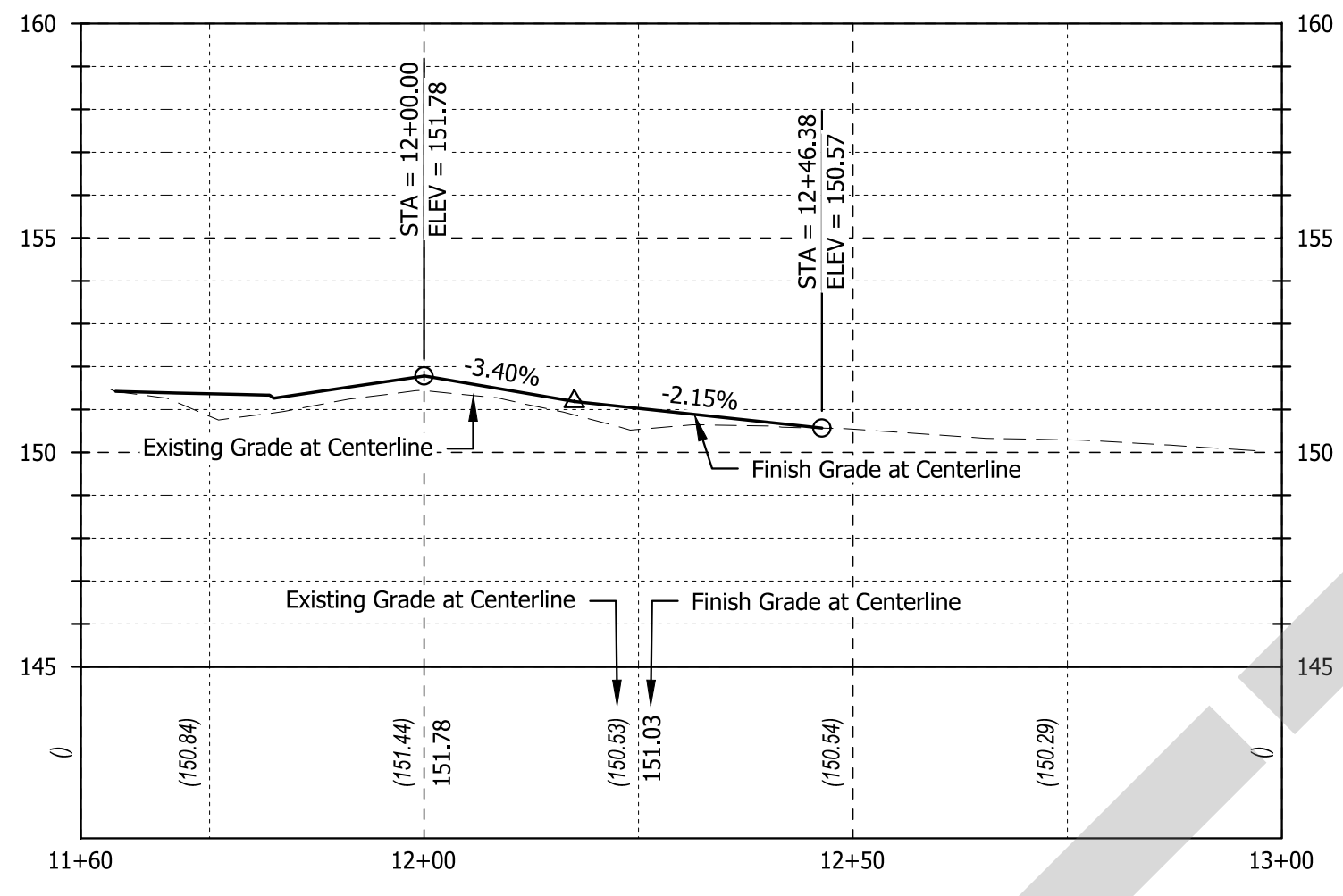
EXPIRES: 06/30/25

Plot Stamp: 11/11/2024 3:11:30 PM - Allison Winter  
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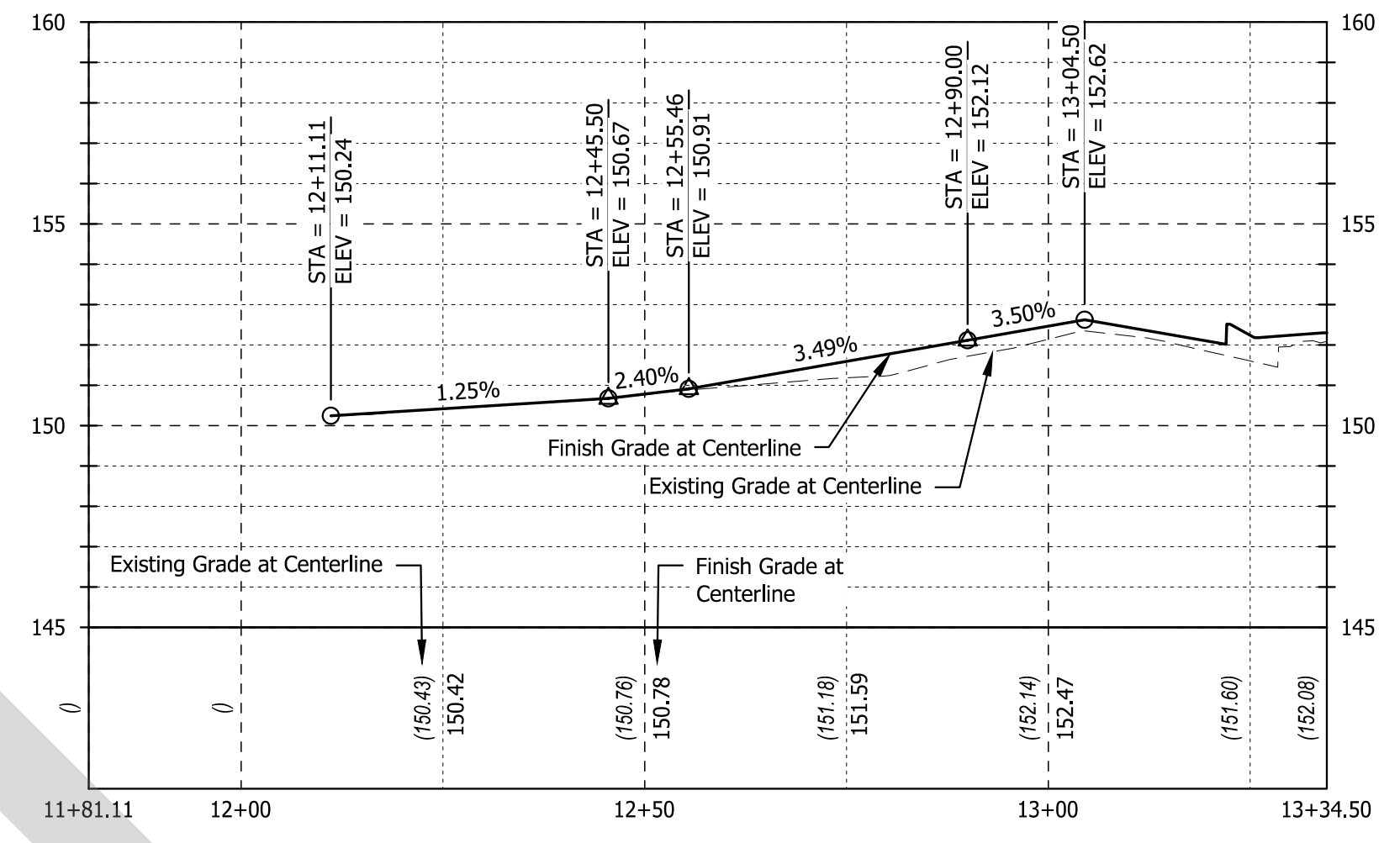
**44th Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



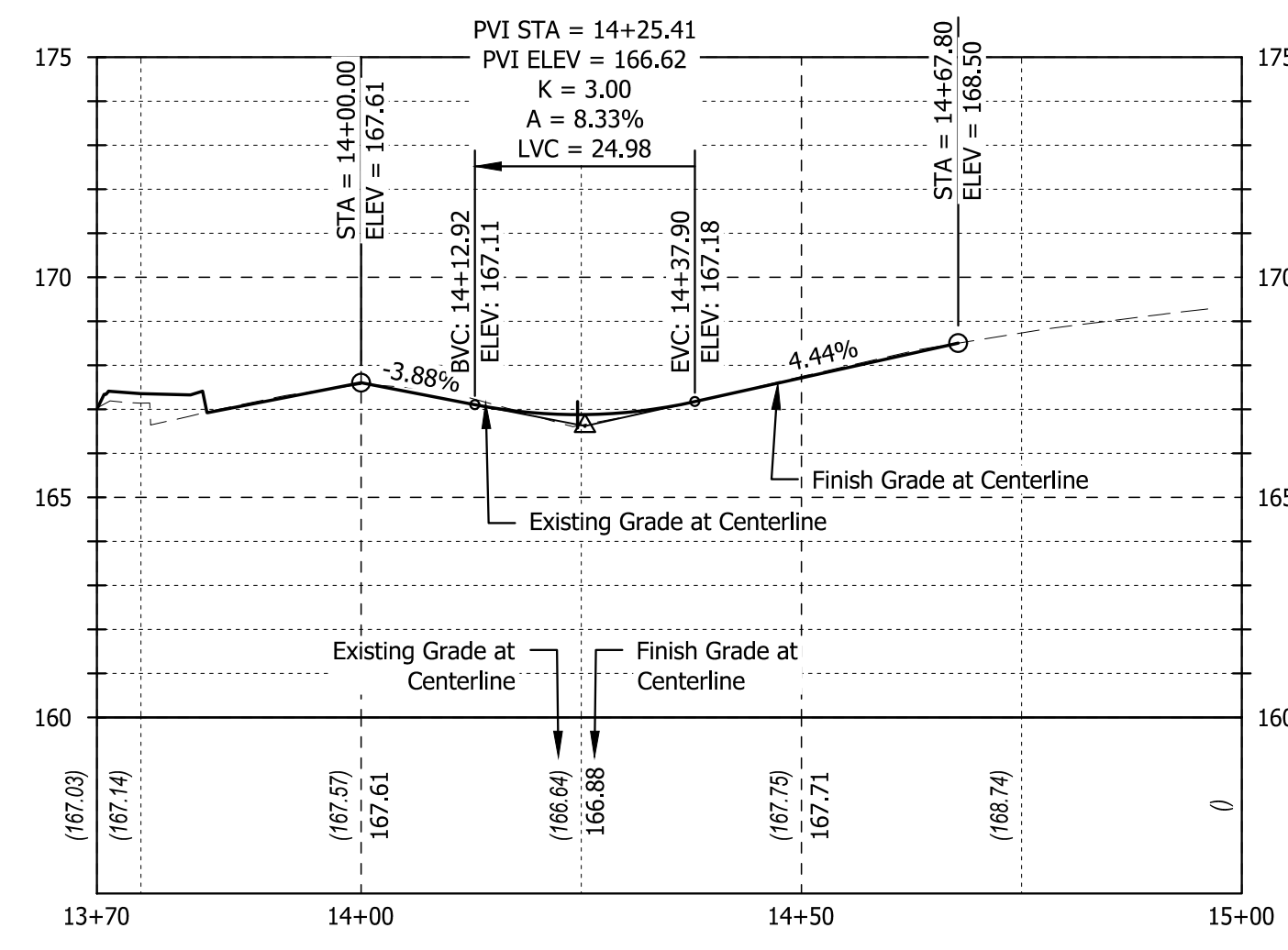
**46th Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



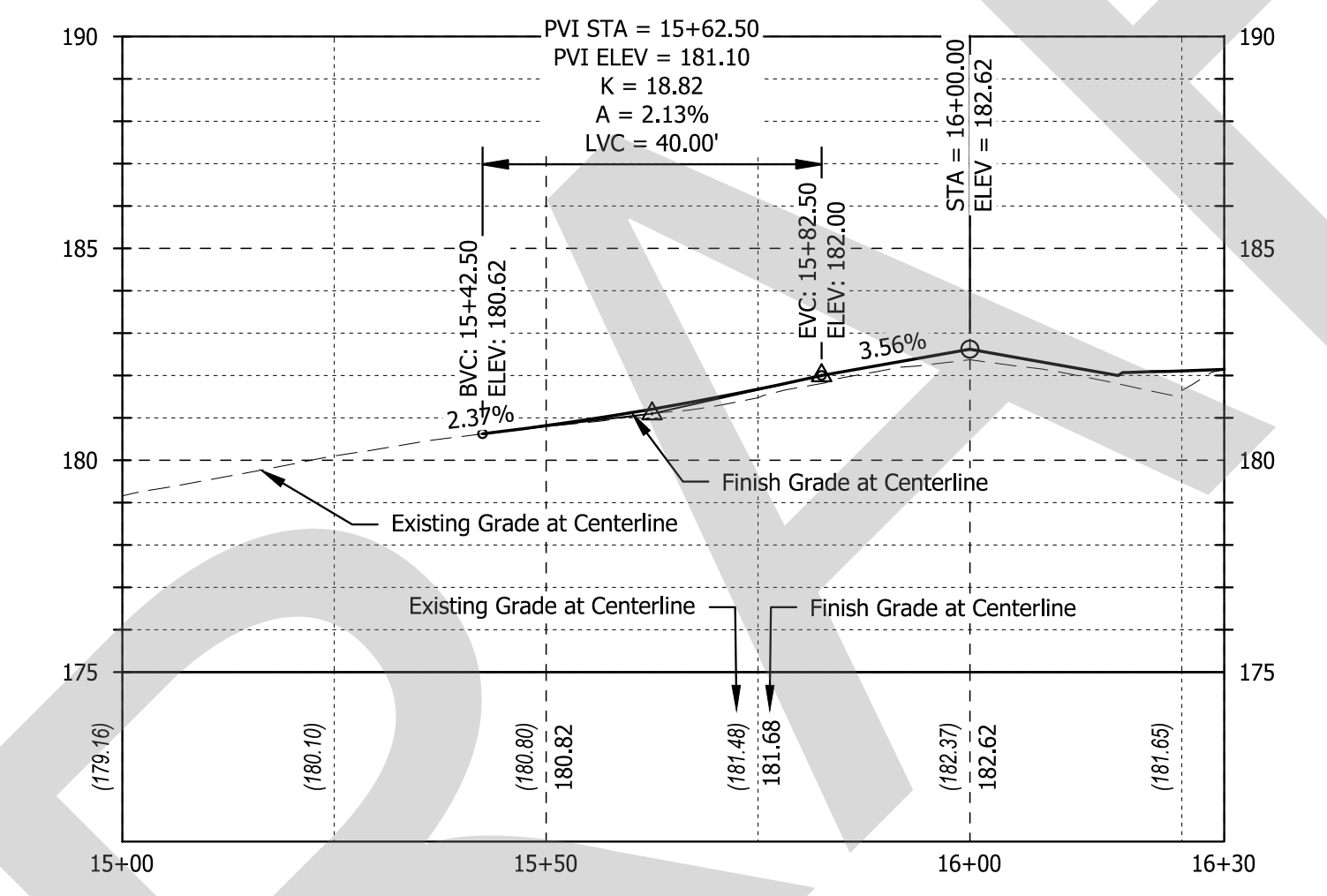
**47th Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



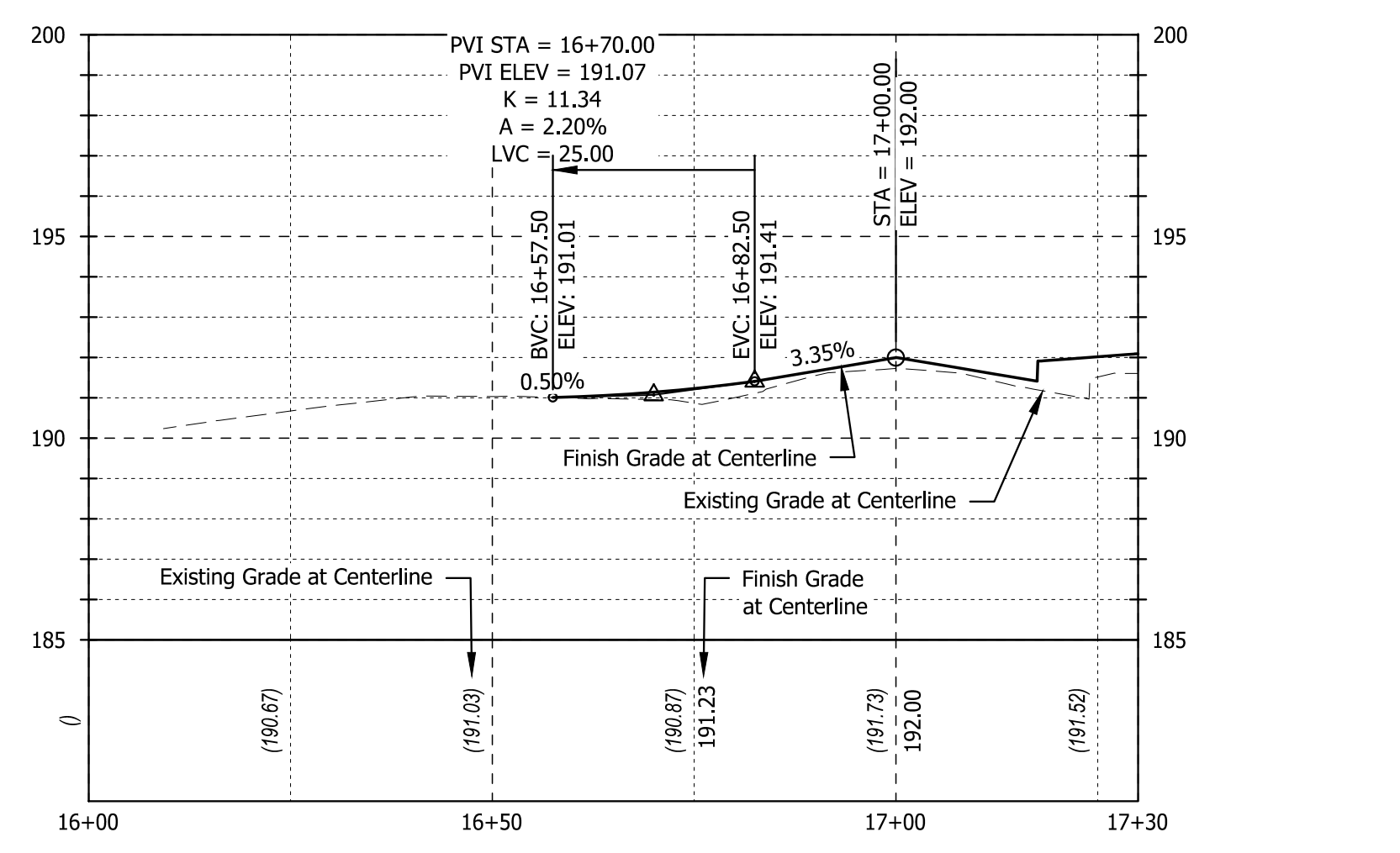
**49th Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



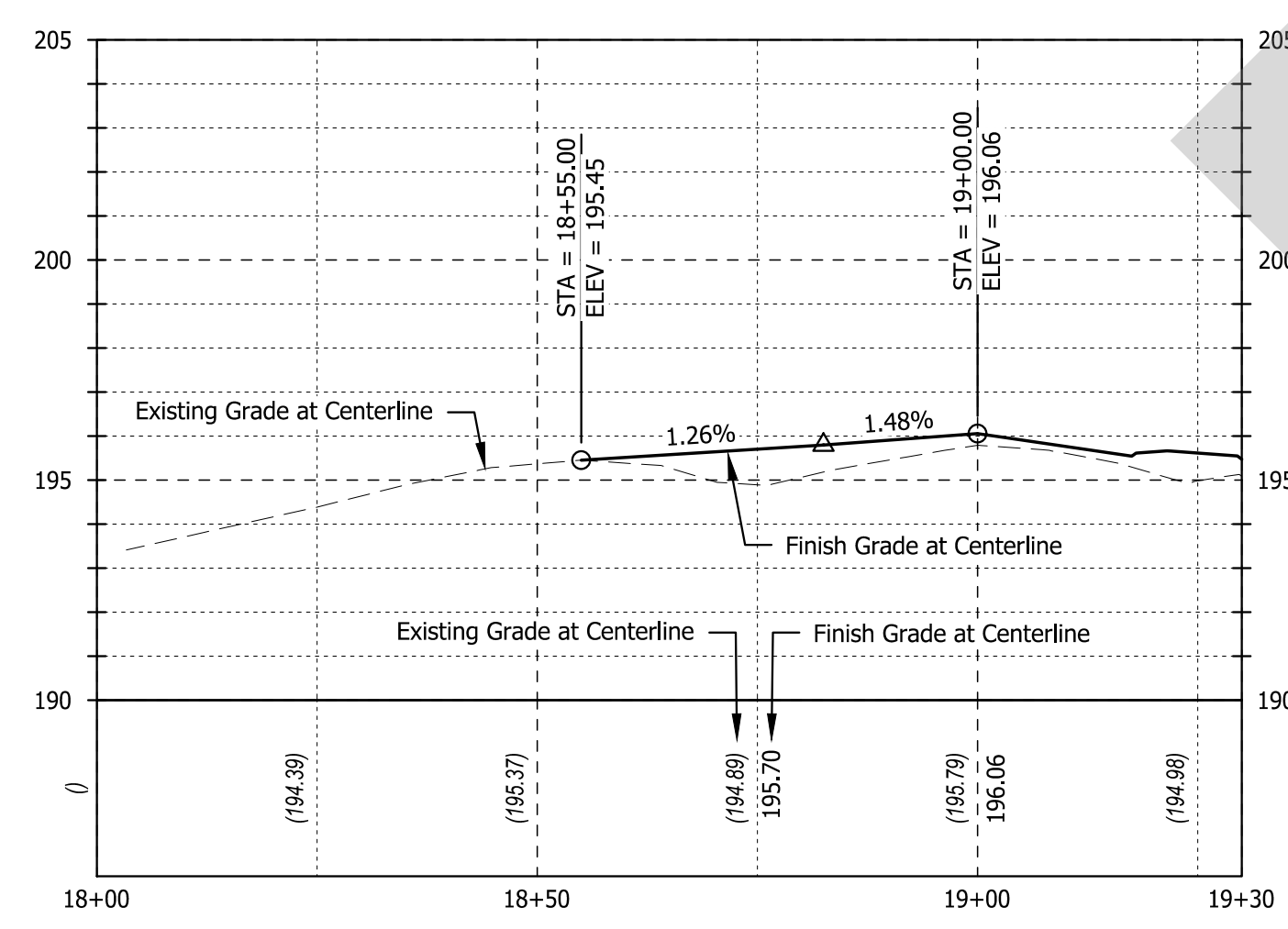
**51st Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



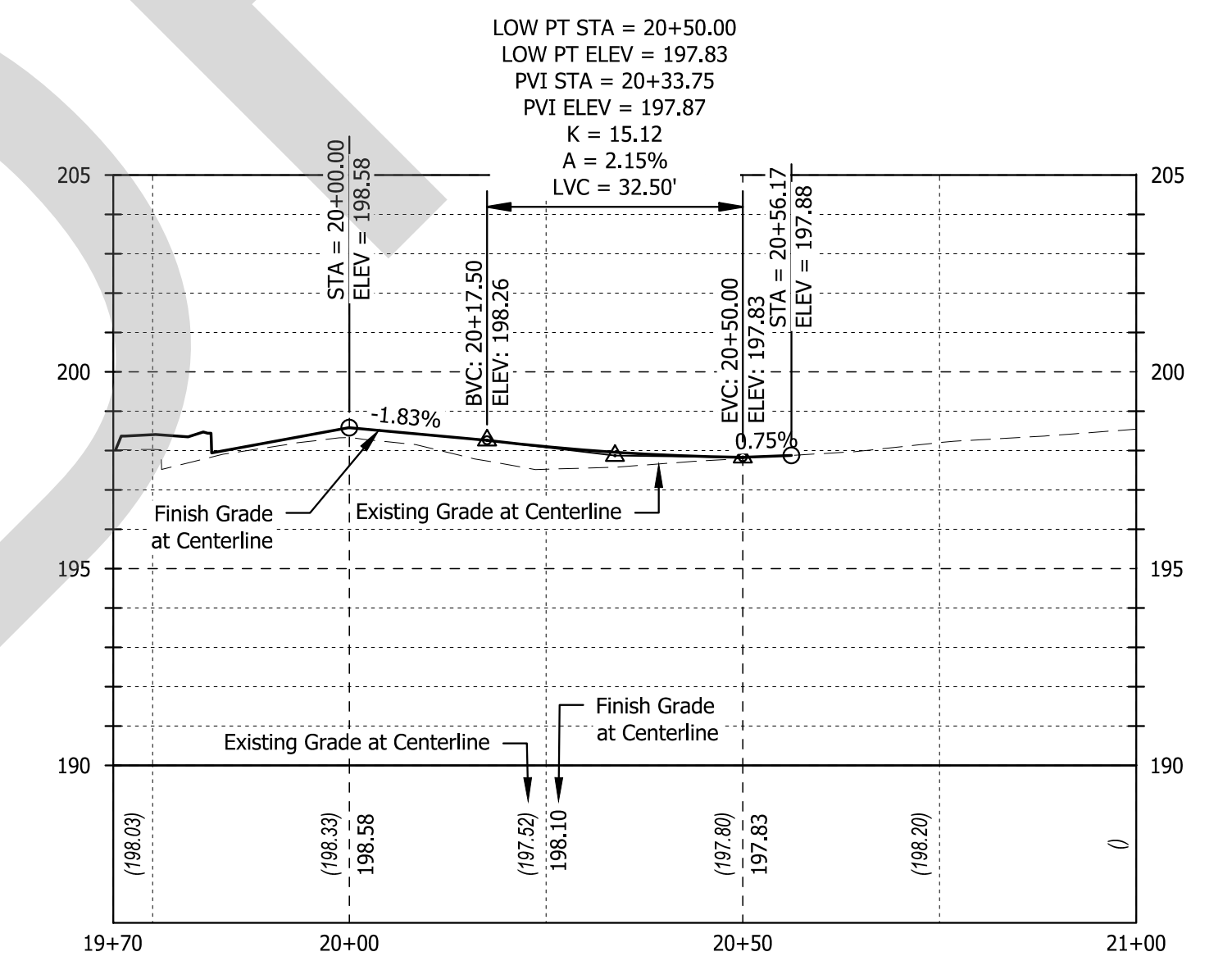
**52nd Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



**53rd Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



**54th Ave PROFILE**

**PROFILE VIEW**  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

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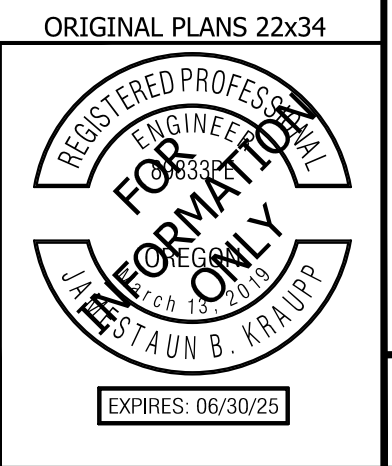
Drawn: DFB  
 Designed: DPB  
 Checked: JBK

PROJECT NO.  
**C2023-032**

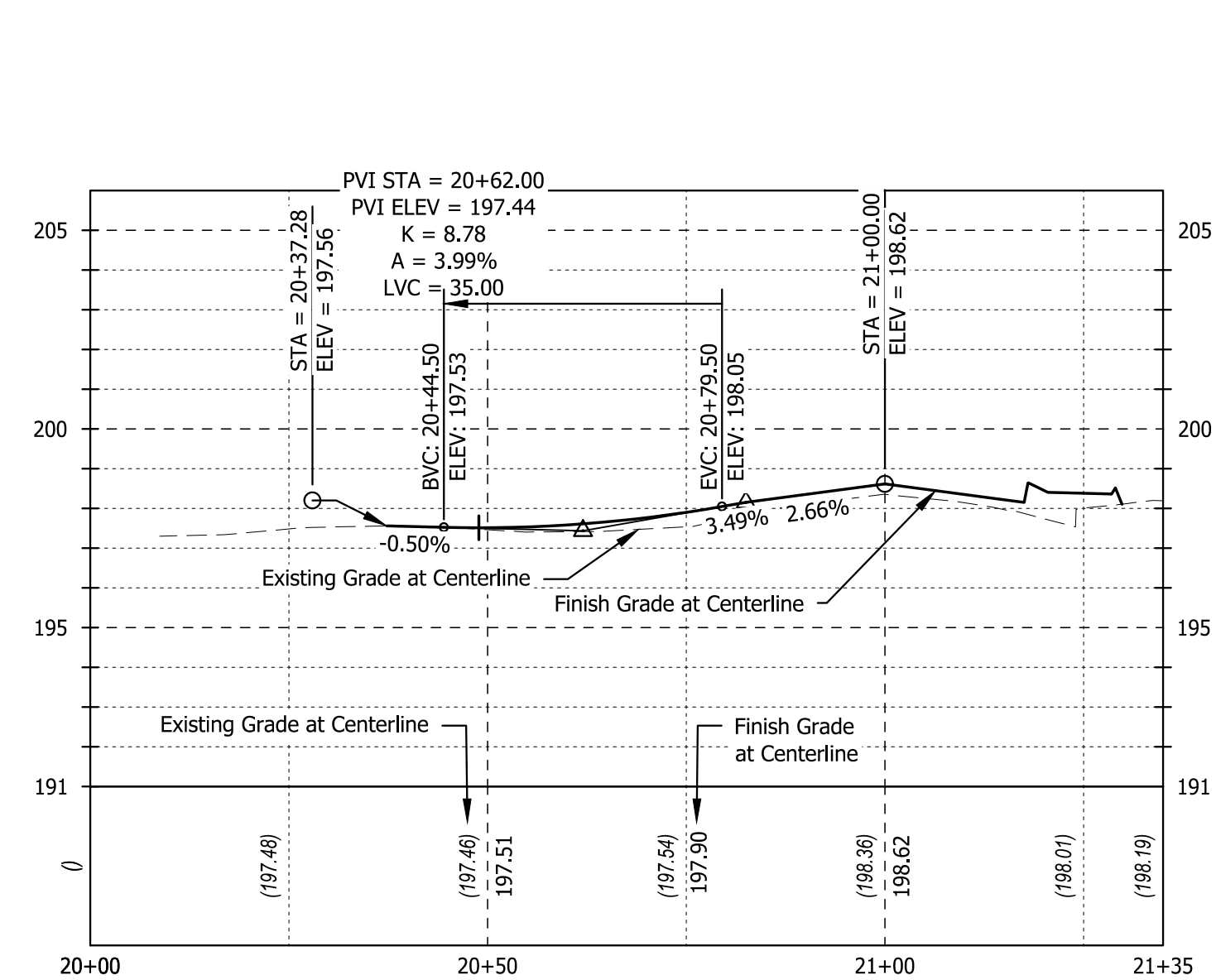
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

**STREET PLANS**

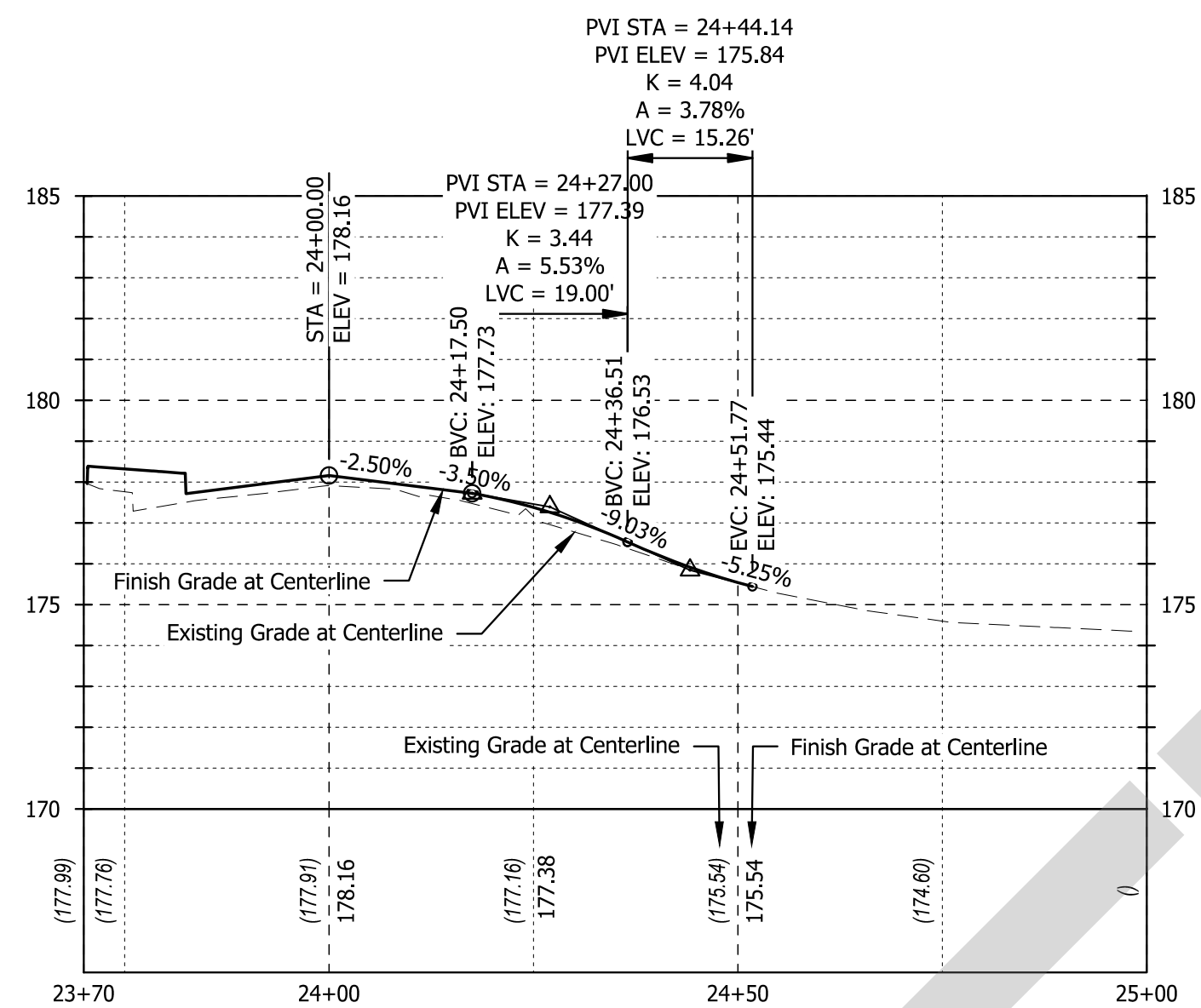
SHEET NO.  
**16**



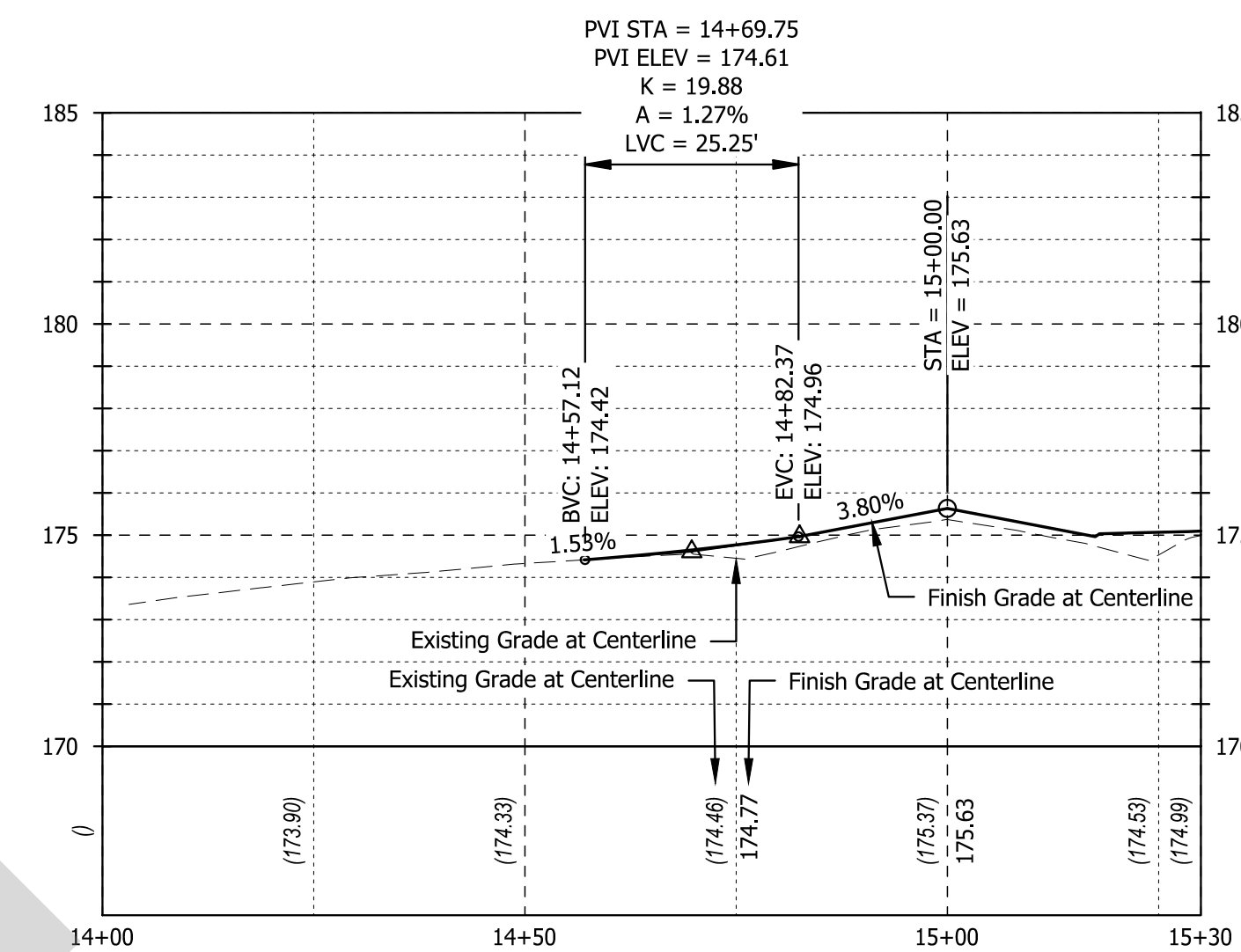
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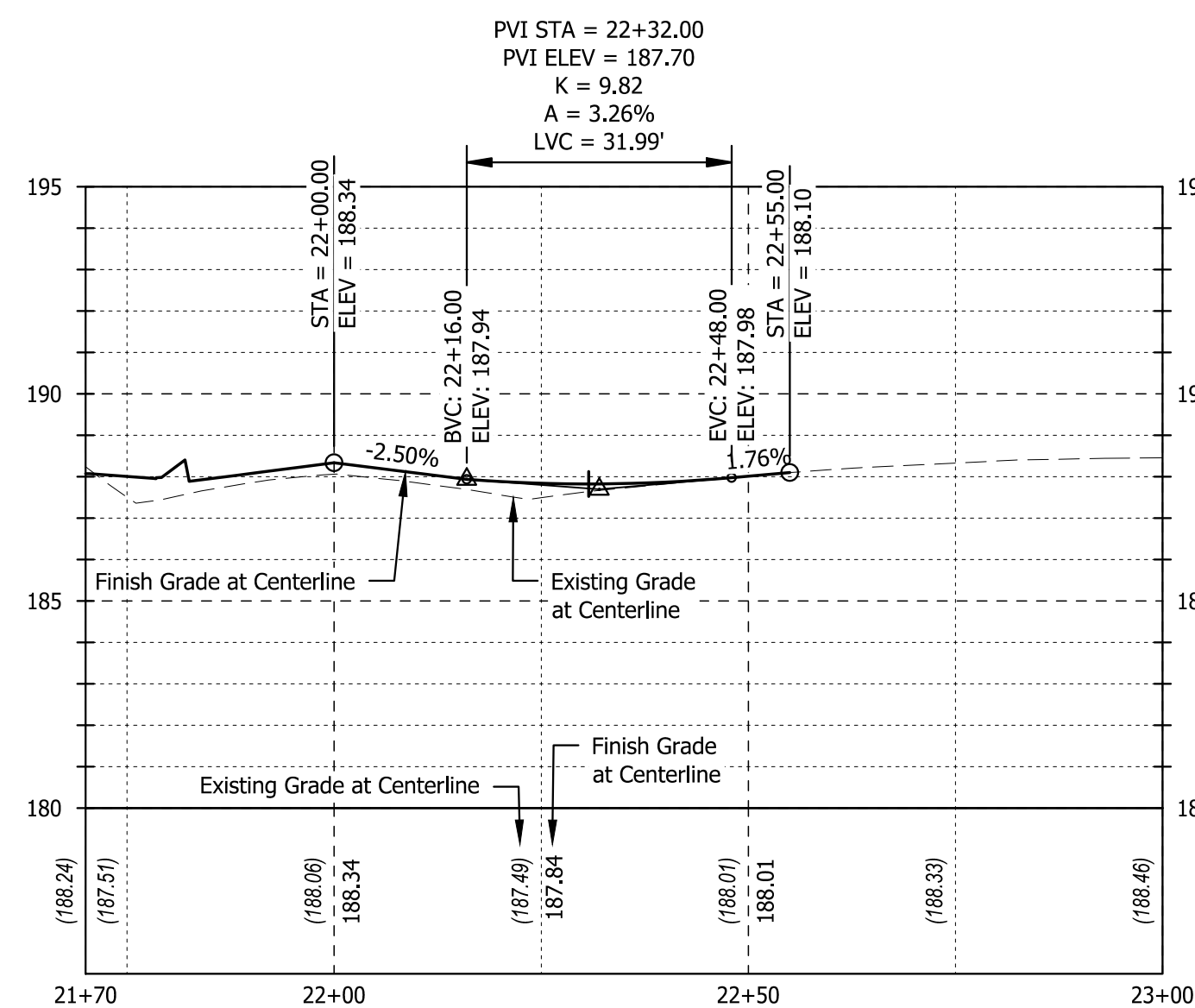
**55th Ave PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



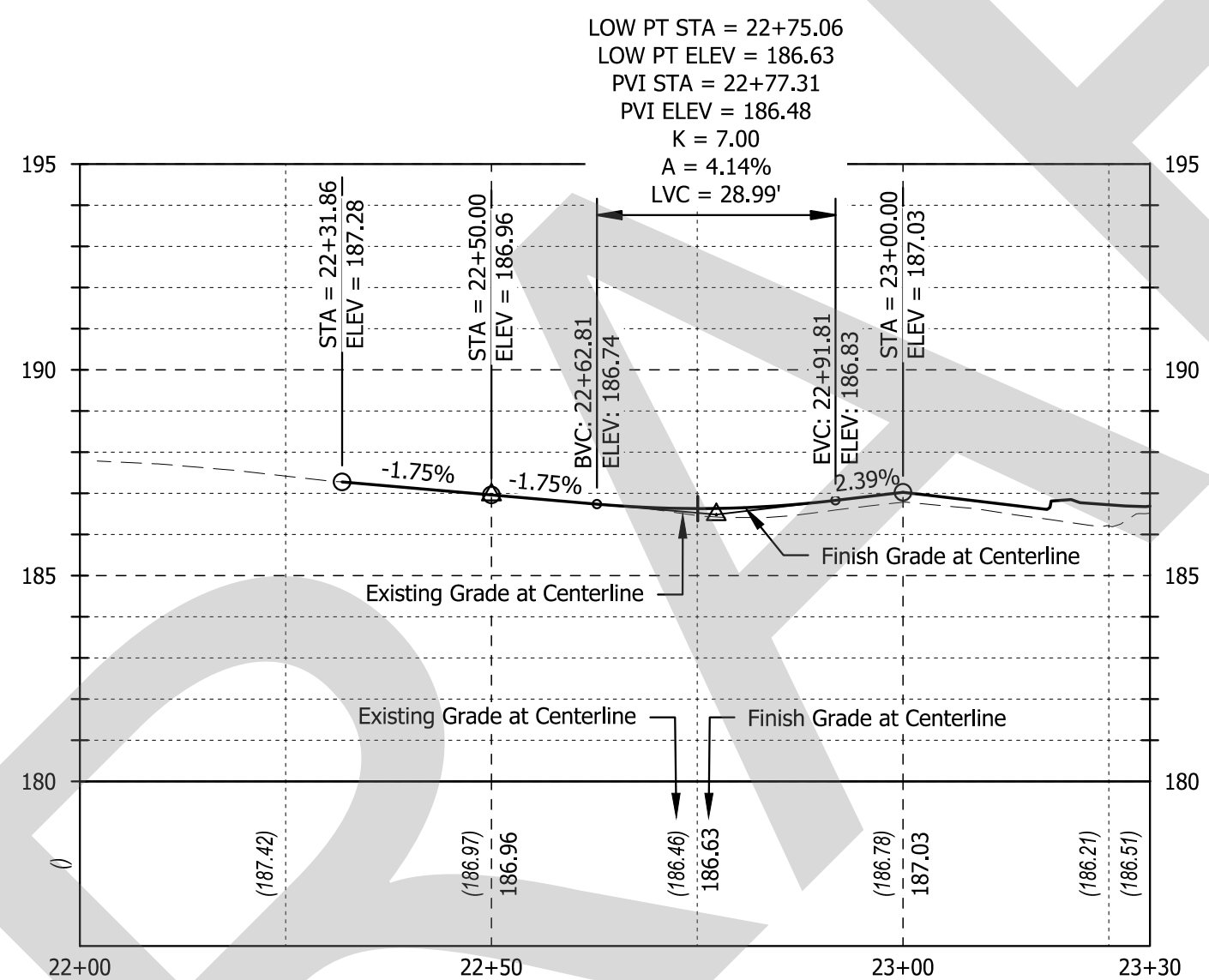
**Hollywood Ave PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



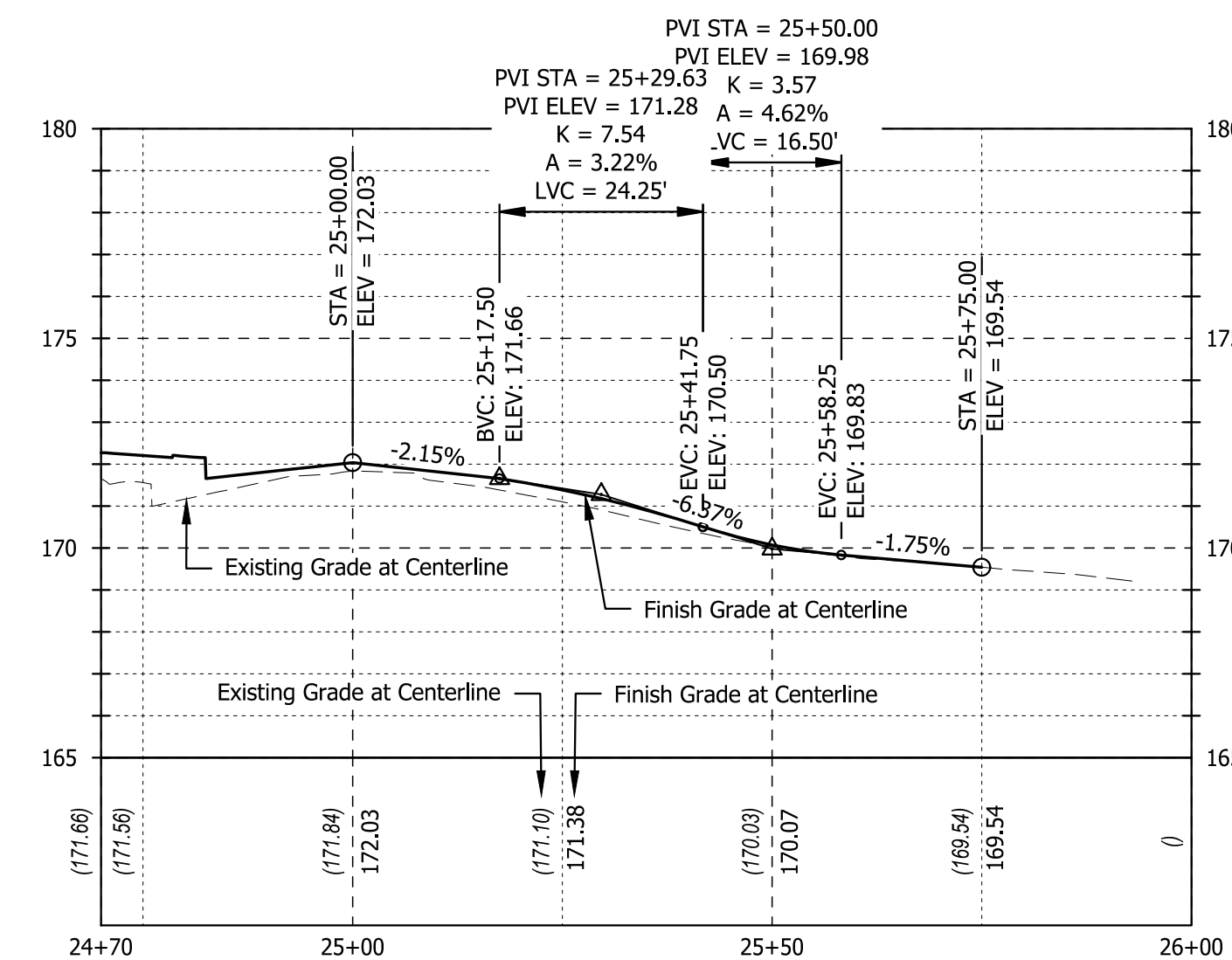
**Home Ave PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



**Stanley Ave N PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



**Stanley Ave S PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)



**Wichita Ave PROFILE**  
 PROFILE VIEW  
 SCALE: 1" = 20' (HORZ.), 1" = 4" (VERT)

**CITY OF MILWAUKIE**

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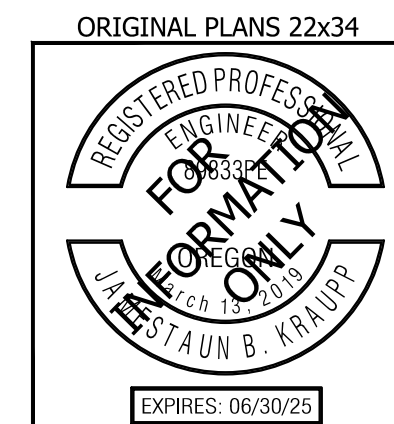
Submission Date: November 12, 2024  
 Drawn: DFB  
 Designed: DPB  
 Checked: JBK

PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

STREET PLANS

SHEET NO. 17





**SIGNING LEGEND**

- Retain and Protect Existing Sign (N) and Existing Support.
- Remove and Salvage Existing Sign (N). Remove Existing Sign (M) support.
- Remove and Salvage Existing Sign (N).
- Install New Sign (N).
- Install New Sign (N) on New (M) Support.
- Remove Existing Sign (N).
- Remove Existing Sign (N) on (M) Support.
- Re-Install Salvaged Sign (N). Install on New (M) Support.
- Re-Install Salvaged Sign (N).

N = Sign Number (See Signing Detail Sheet X)  
 M = Materials, Option Is:  
 S = Steel "Telespar"  
 W = Wood  
 CCS = Crosswalk Closure Support (See TM240)

- See RRFB Plans on Sheet TS-2 For RRFB Signs and Installation.
- Salvage Signs and Coordinate with TriMet. TriMet to be notified of Removal of Signs and Closure of Bus Stop Locations during Construction. TriMet to Install New TriMet Bus Route Signs and Post.
- Install Yellow Pavement Reflective (TYPE 1) Markers On Island Nose At 2 Foot Spacing Per Detail on this Sheet.
- Install Retroreflective Solid Yellow Curb Marking on Median Nose Per Detail on this Sheet.

**STRIPING LEGEND**

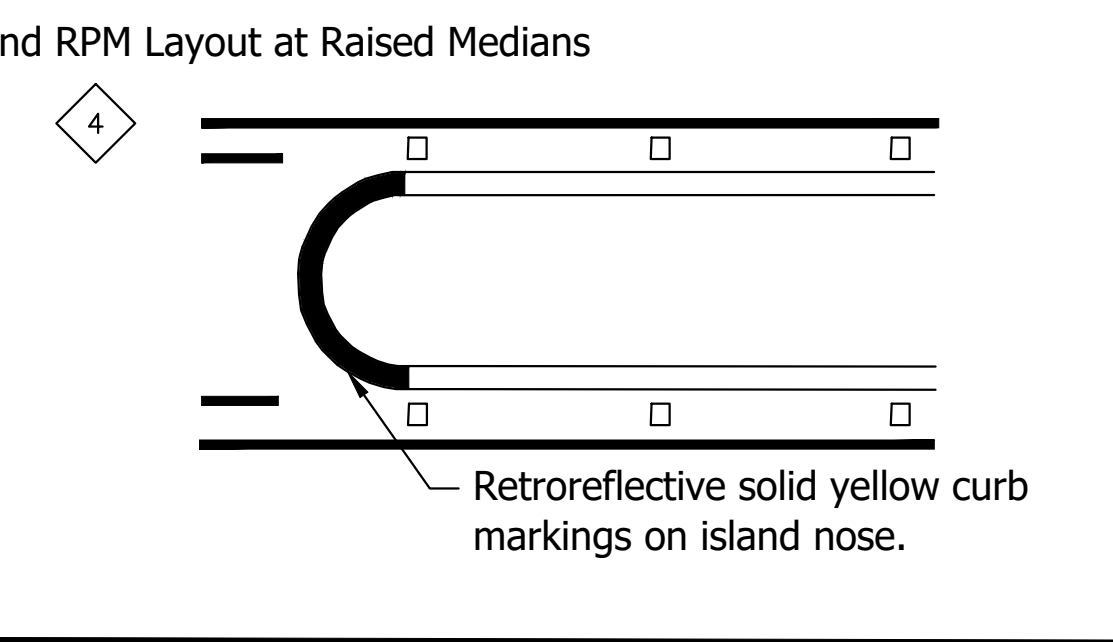
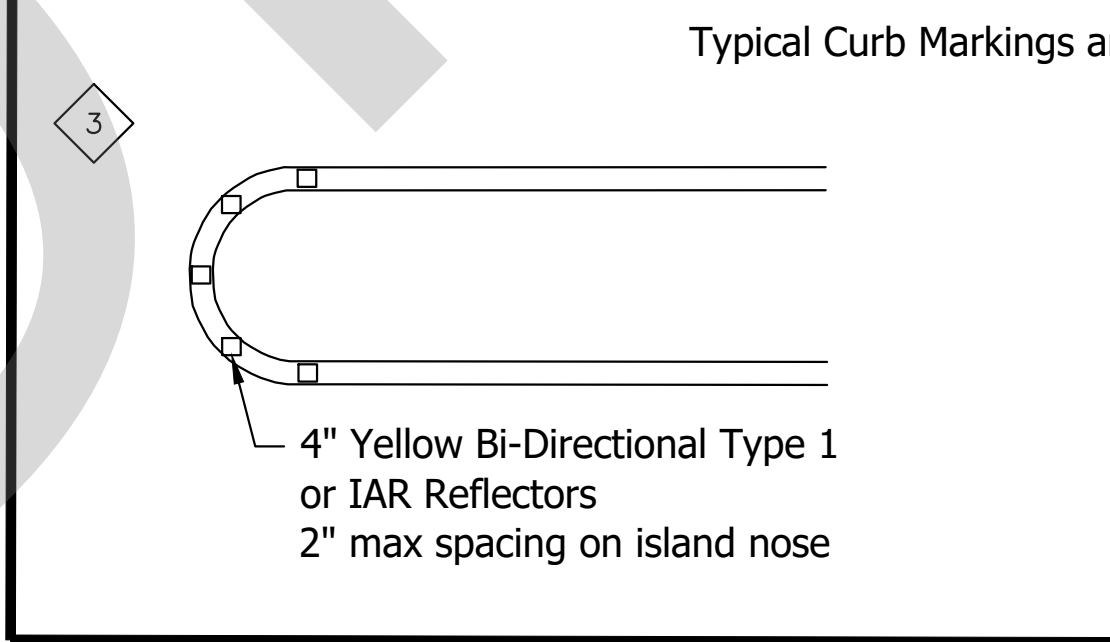
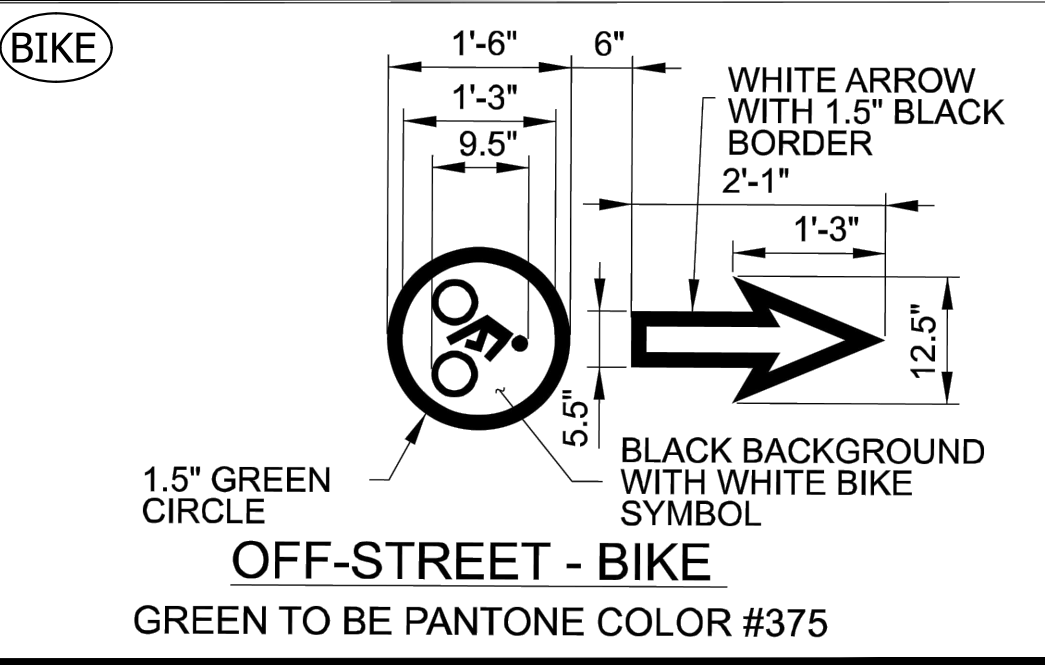
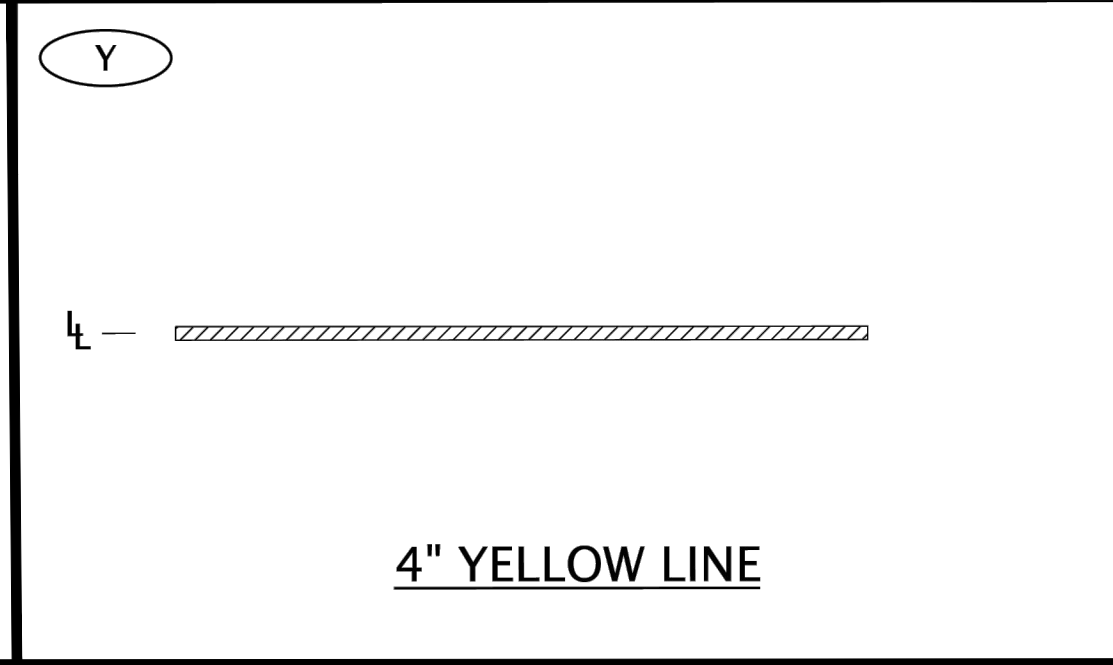
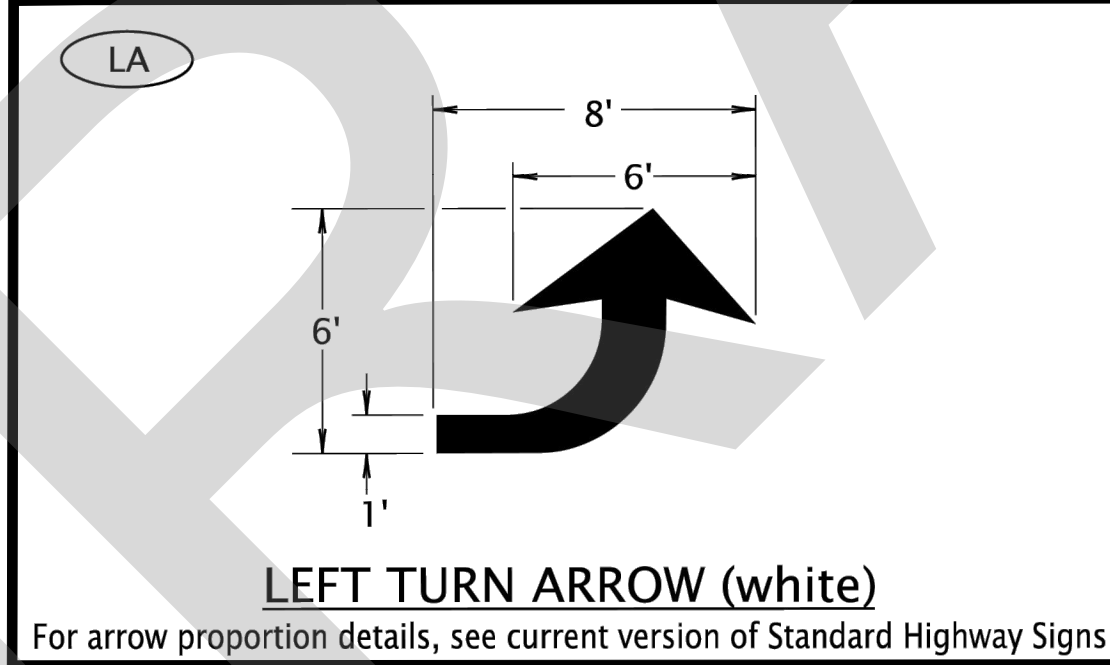
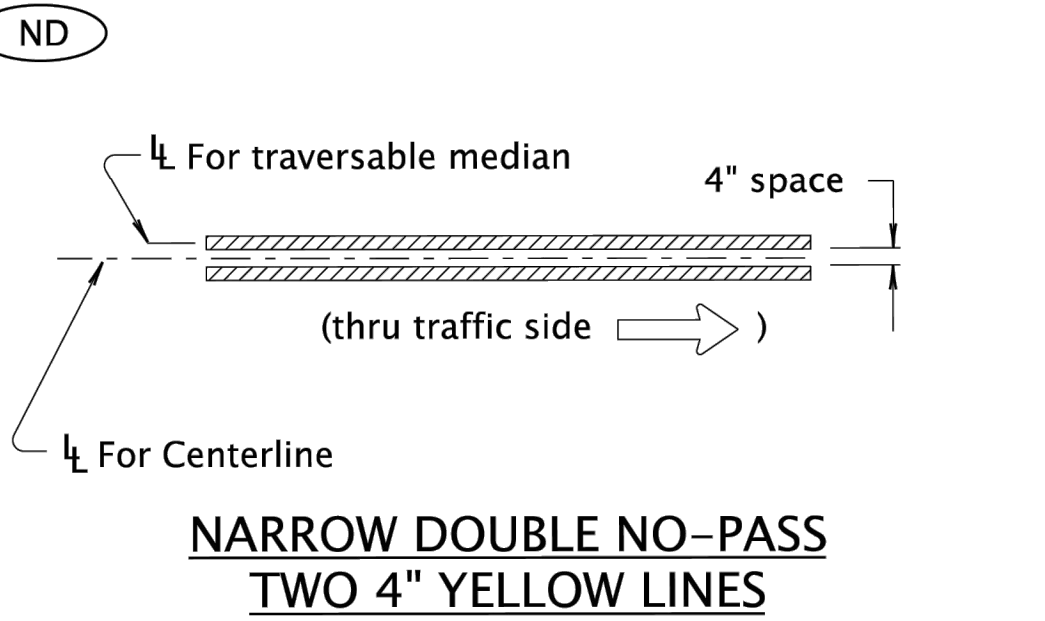
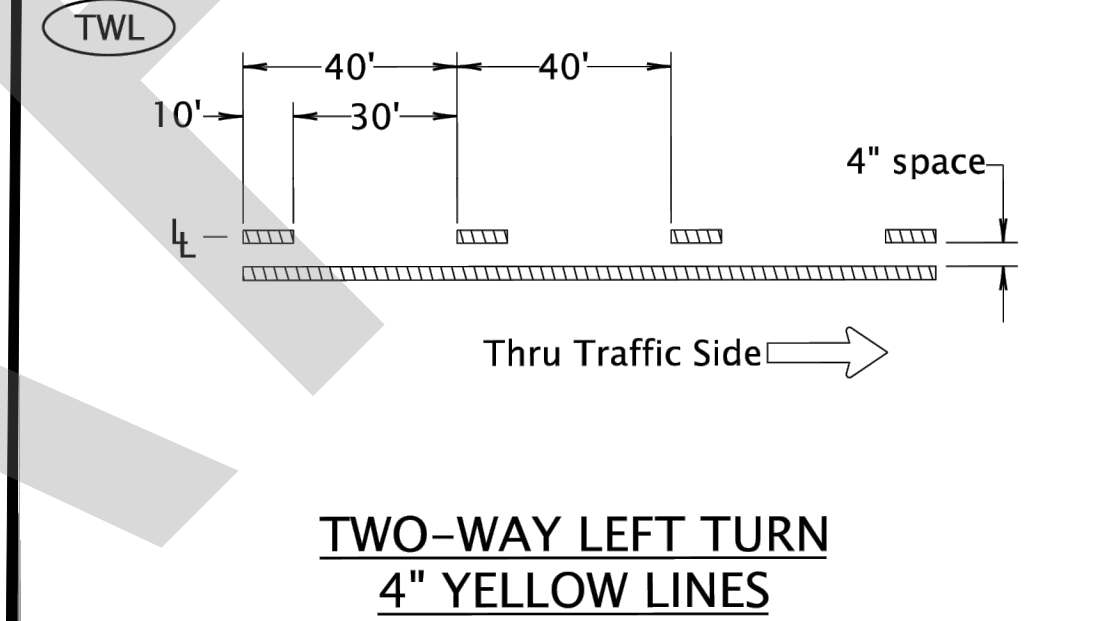
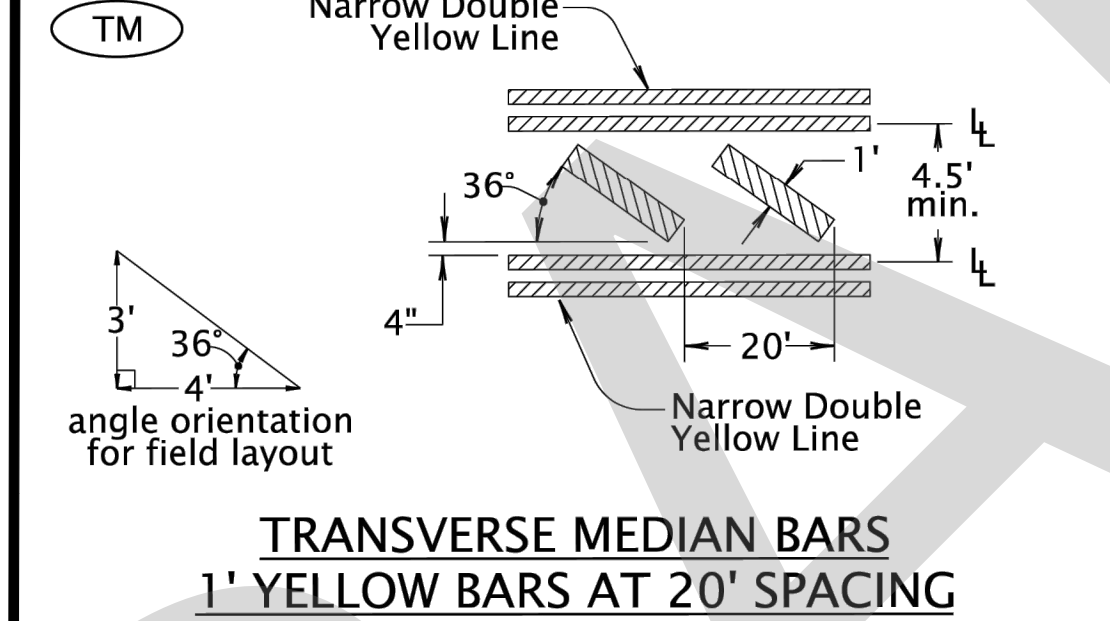
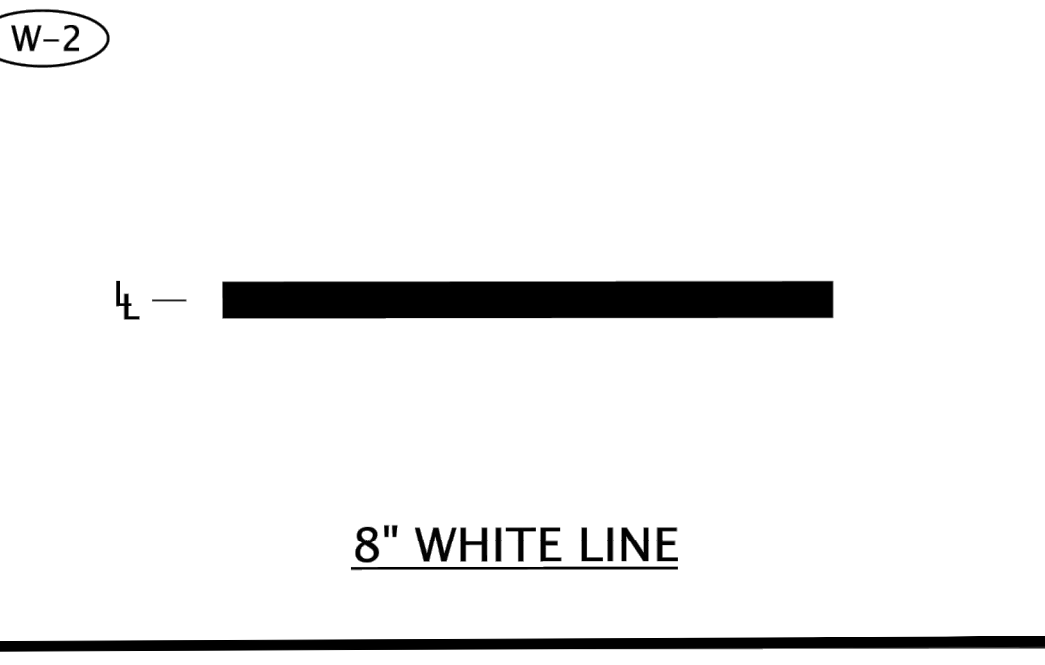
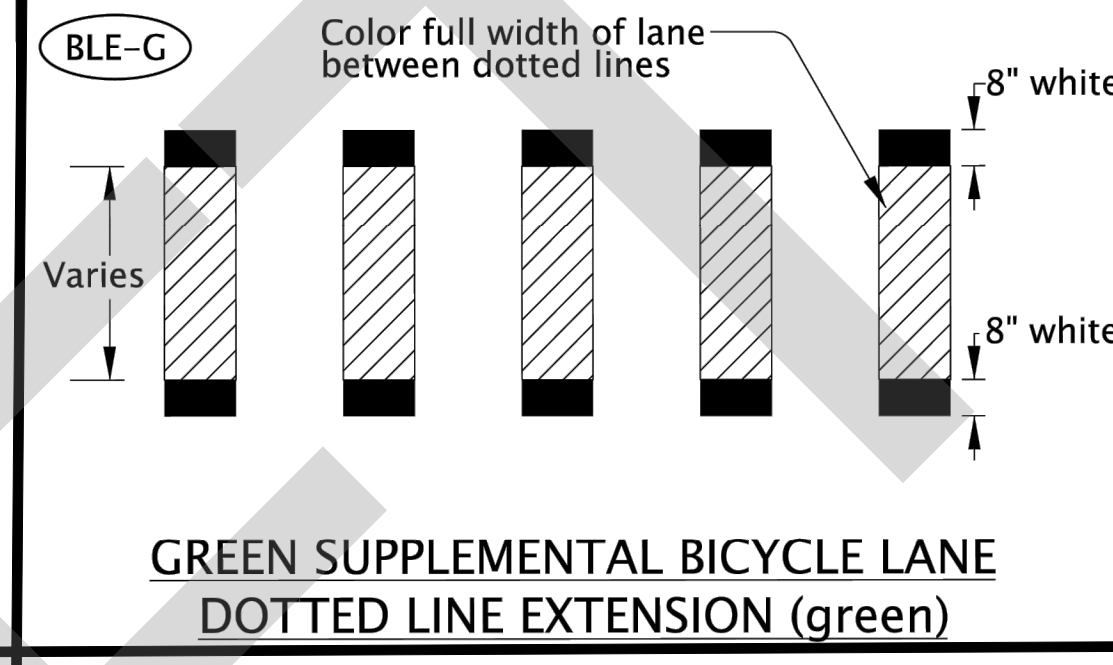
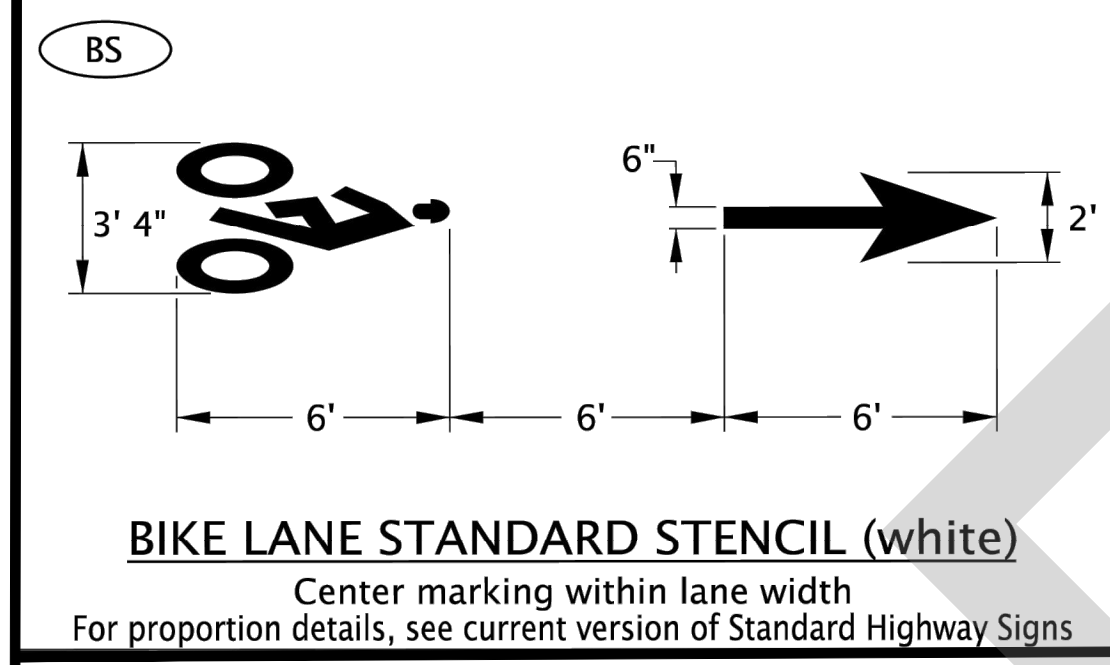
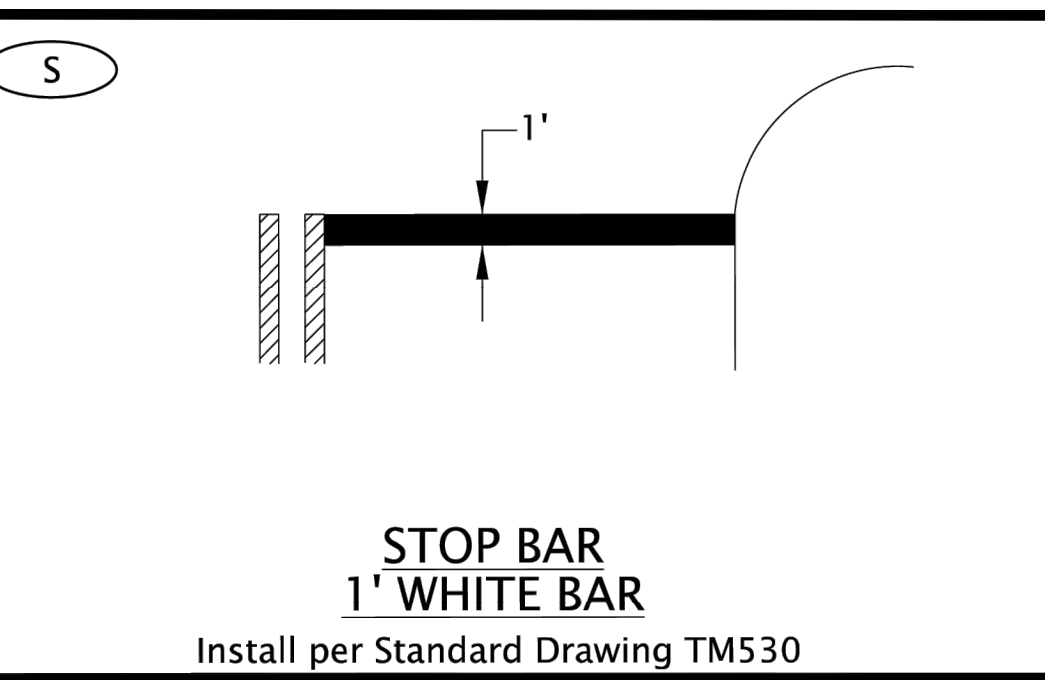
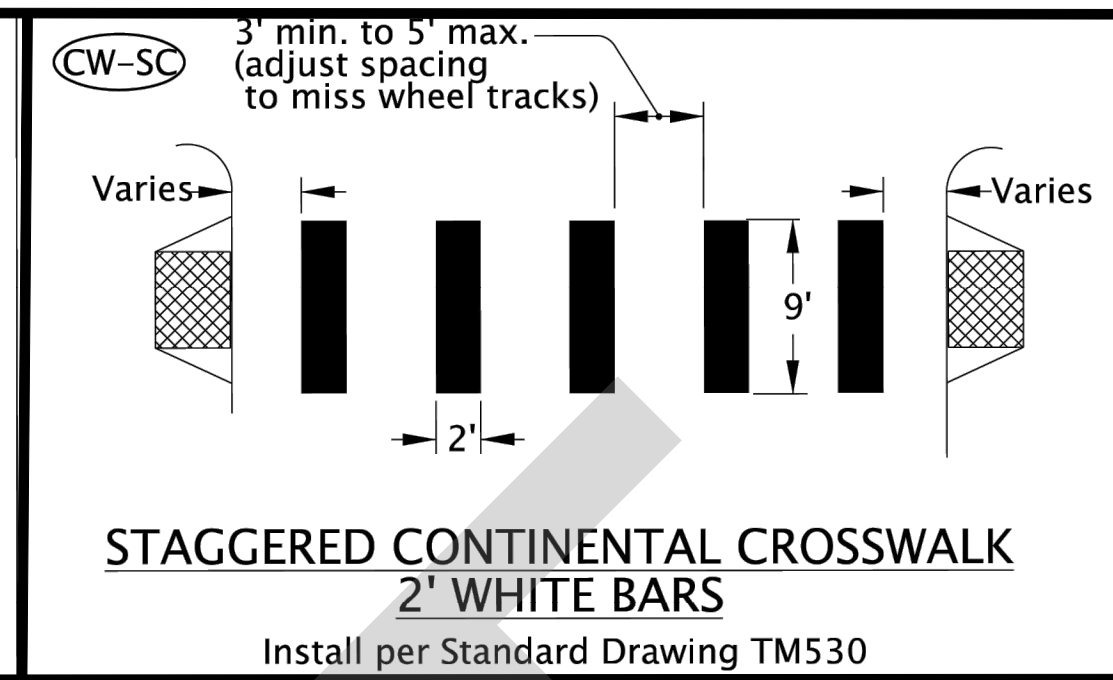
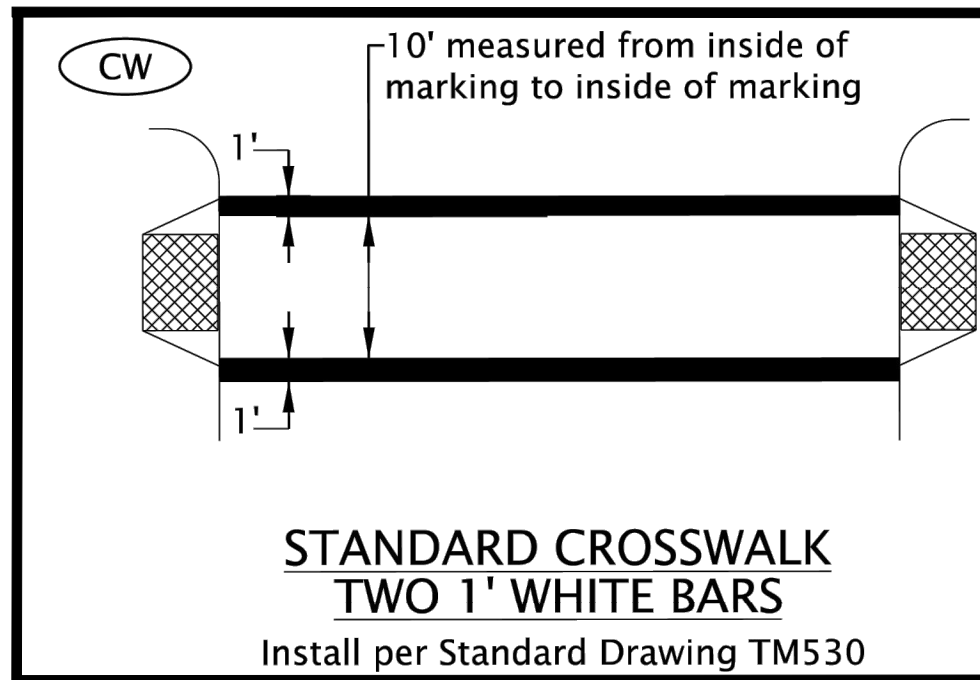
- Install 8" white line.
- Install left turn arrow (white).
- Install 4" yellow line.
- Install two-way left turn 4" yellow lines.
- Install narrow double no-pass two 4" yellow lines.
- Install stop bar 1' white bar.
- Install staggered continental crosswalk 2' white bars.
- Install green supplemental bicycle lane dotted line extension (green)
- Install 10' wide crosswalk with two 1' white bars
- Install yellow 1' transverse median bars at 20' spacing.
- Install white bike lane standard stencil
- Install bicyclist stencil inside a green circle with a white directional arrow
- Install pedestrian stencil inside a yellow circle with white directional arrows
- Maintain and Protect Existing Striping as Defined on This Sheet
- Remove Existing Striping as Defined on This Sheet

**ROADWAY SIGNING AND STRIPING NOTES**

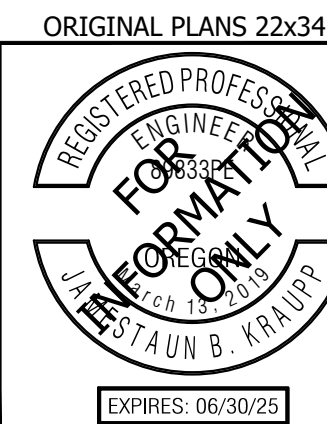
1. ALL SIGNING, STRIPING AND PERMANENT BARRICADES TO BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR THE WORK IN THE RIGHT-OF-WAY AT THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE WITHOUT PRIOR CITY APPROVAL.
3. CONTRACTOR SHALL REPLACE DAMAGED OR REMOVED PAVEMENT MARKINGS UPON COMPLETION OF PROJECT. CONTRACTOR SHALL USE MATERIAL APPROPRIATE FOR INTENDED USE WITH SPECIFICATIONS AS CALLED OUT ON THE APPROVED PLANS.
4. REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STRIPING SHOWN.
5. ALL SIGNING SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) 2009 EDITION, AND THE OREGON SUPPLEMENT TO THE M.U.T.C.D.
6. THE LOCATIONS OF SIGN INSTALLATION SHOWN ARE APPROXIMATE WITH THE EXACT LOCATION TO BE DETERMINED IN THE FIELD.
7. EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED.
8. SIGN LOCATIONS TO BE VERIFIED BEFORE PERMANENT SIGNS ARE INSTALLED.
9. TRAFFIC SIGN LEGEND AND MOUNTING DETAILS ARE SHOWN ON SHEETS SS-9 THROUGH SS-13.

**CITY OF MILWAUKIE PERMANENT SIGNAGE AND MARKING NOTES**

1. CONTRACTOR SHALL NOT REMOVE ANY STREET SIGNAGE NOT INDICATED IN THE PLANS WITHOUT PRIOR CITY APPROVAL.
2. CONTRACTOR SHALL REPLACE DAMAGED SIGNS OR SIGN POLES.
3. CONTRACTOR SHALL UPDATE ALL SIGNAGE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WHEN SIGNS ARE REMOVED OR DAMAGED.
4. CONTRACTOR SHALL REPLACE DAMAGED OR REMOVED PAVEMENT MARKINGS UPON COMPLETION OF FINAL PAVING. CONTRACTOR SHALL USE MATERIAL APPROPRIATE FOR INTENDED USE WITH SPECIFICATIONS AS CALLED OUT ON THE APPROVED PLAN.
5. CONTRACTOR SHALL RETURN ALL SIGNS/POLES/HARDWARE NOT BEING REINSTALLED TO THE CITY OF MILWAUKIE.
6. CONTRACTOR SHALL INSTALL ALL SIGNS AND MARKINGS PER OCCS AND CITY OF MILWAUKIE SPECS.



**PAVEMENT MARKING DETAILS**



**CITY OF MILWAUKIE**

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Drawn: AMW	Designed: AMW	Checked: JBK
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PROJECT NO.  
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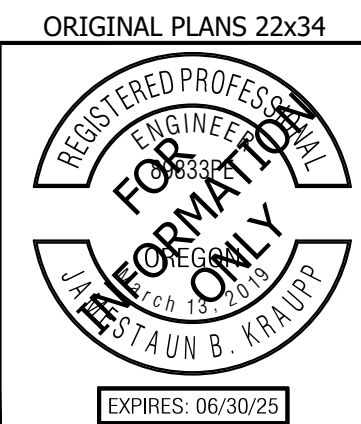
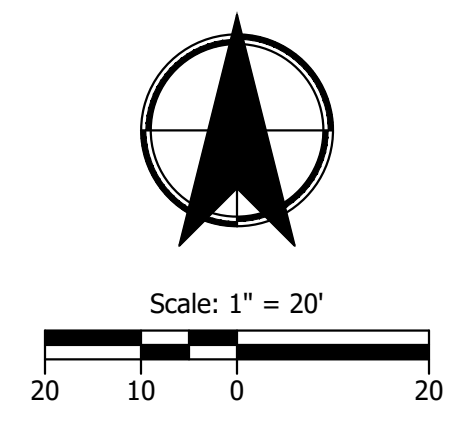
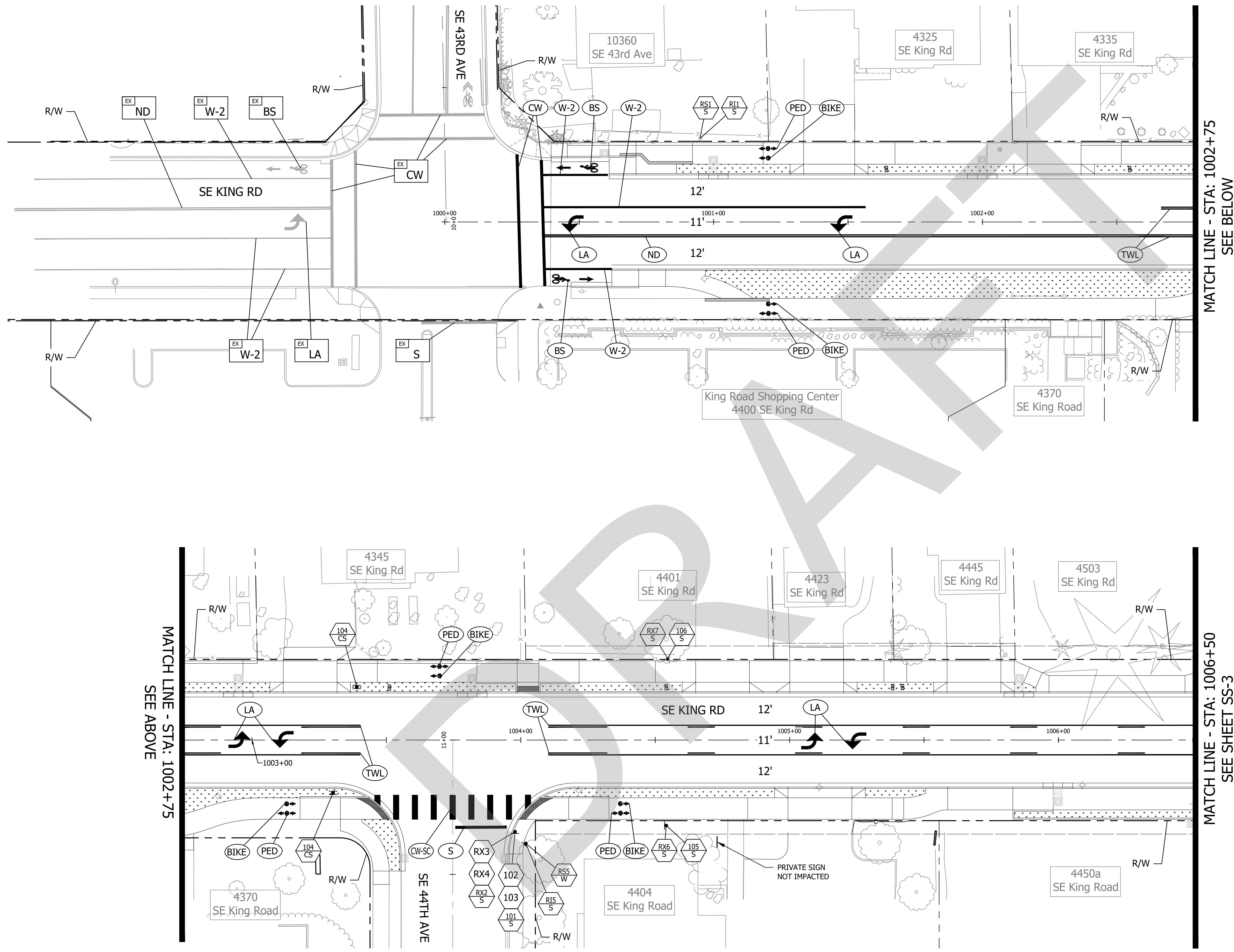
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

SIGNING & STRIPING PLANS


SHEET NO.  
**SS-1**

Plot Stamp: 11/12/2024 8:50:34 AM - Allison Winter  
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Plot Stamp: 11/12/2024 8:50:38 AM - Allison Winter  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\CD-SS-Signing & Striping-28175.dwg




**Note:**  
 See Sheet SS-1 for Legend  
 and General Notes



CITY OF MILWAUKIE

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**KITTELSON  
& ASSOCIATES**

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Submission Date:  
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Drawn: AMW    Designed: AMW    Checked: JBK

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**C2023-032**

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**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

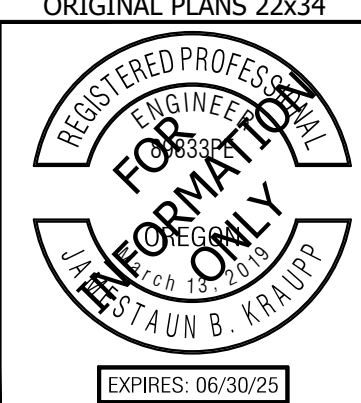
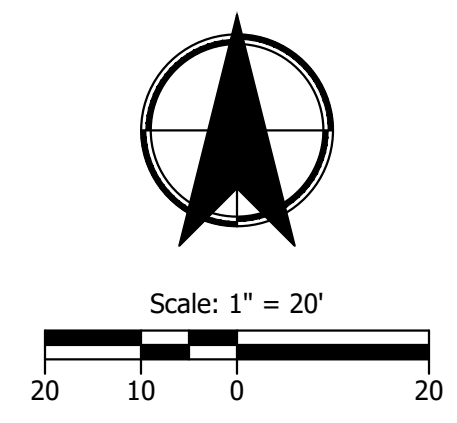
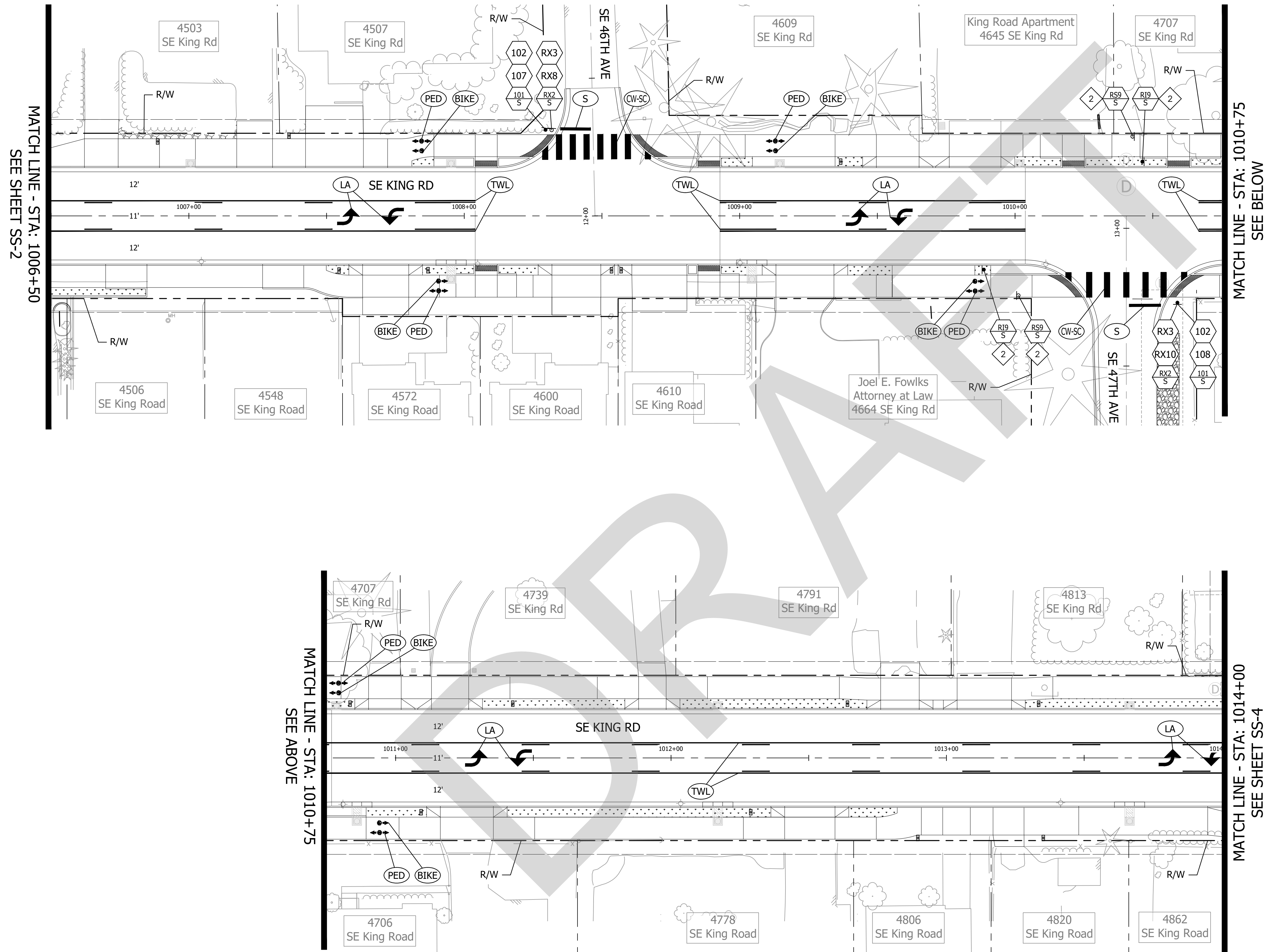
SIGNING & STRIPING PLANS

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SHEET NO.  
**SS-2**

EXPIRES: 06/30/25

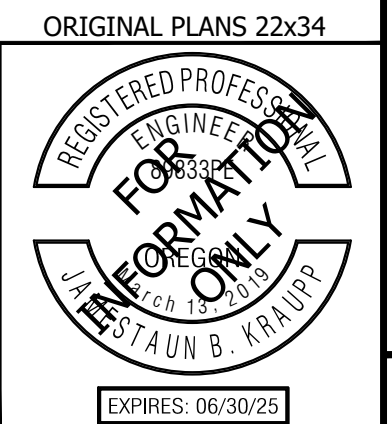
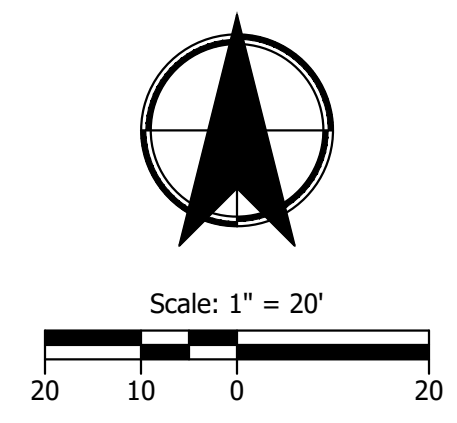
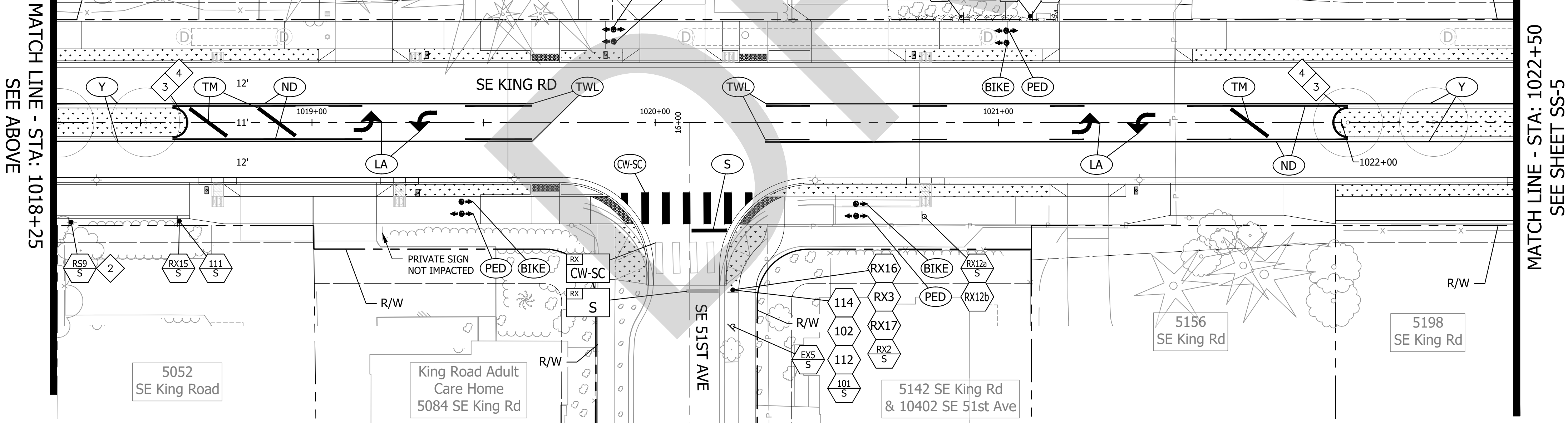
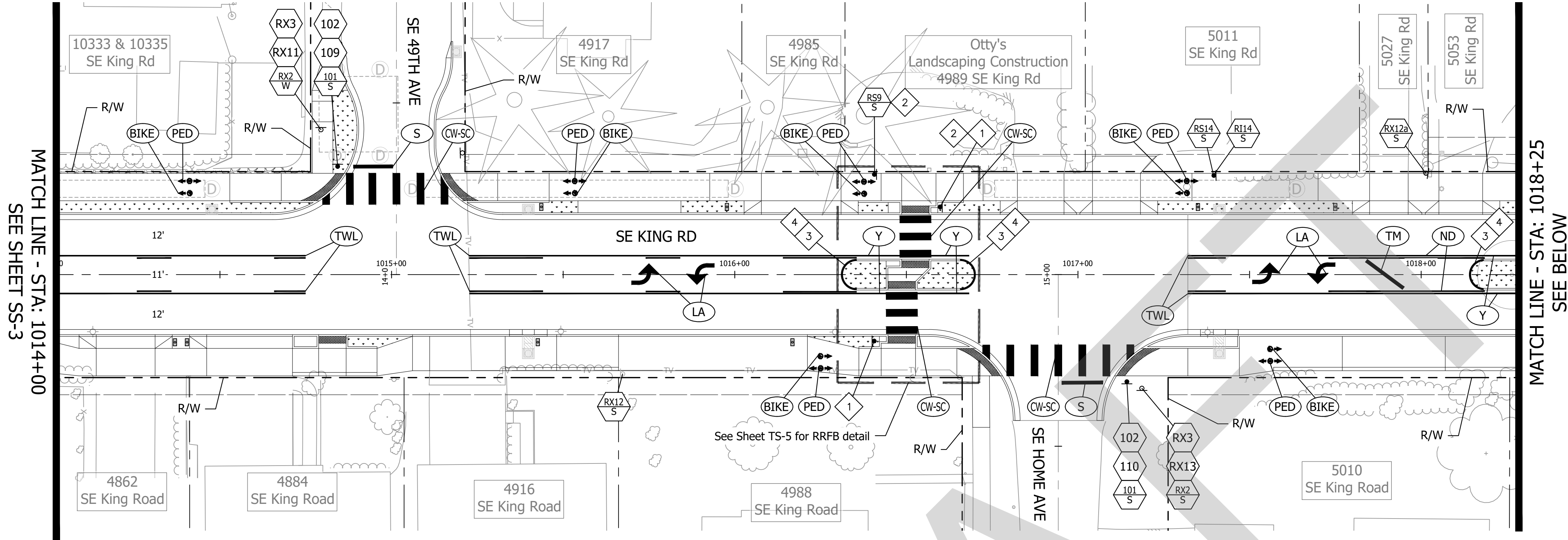
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**Note:**  
 See Sheet SS-1 for Legend and General Notes

<b>CITY OF MILWAUKEE</b>	
<b>KITTELSON &amp; ASSOCIATES</b> 851 SW 6TH AVENUE, SUITE 600 PORTLAND, OR 97204 P 503.228.5230 F 503.273.8169	
	# DATE REVISION APP'D
Submission Date: November 12, 2024 Drawn: AMW    Designed: AMW    Checked: JBK	
PROJECT NO. <b>C2023-032</b>	
<b>KING ROAD IMPROVEMENTS</b> SE 43RD AVE TO SE LINWOOD AVE SIGNING & STRIPING PLANS	
SHEET NO. <b>SS-3</b>	

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Note:  
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#	DATE	REVISION	APP'D

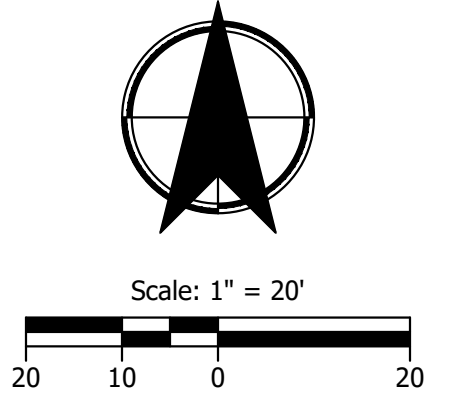
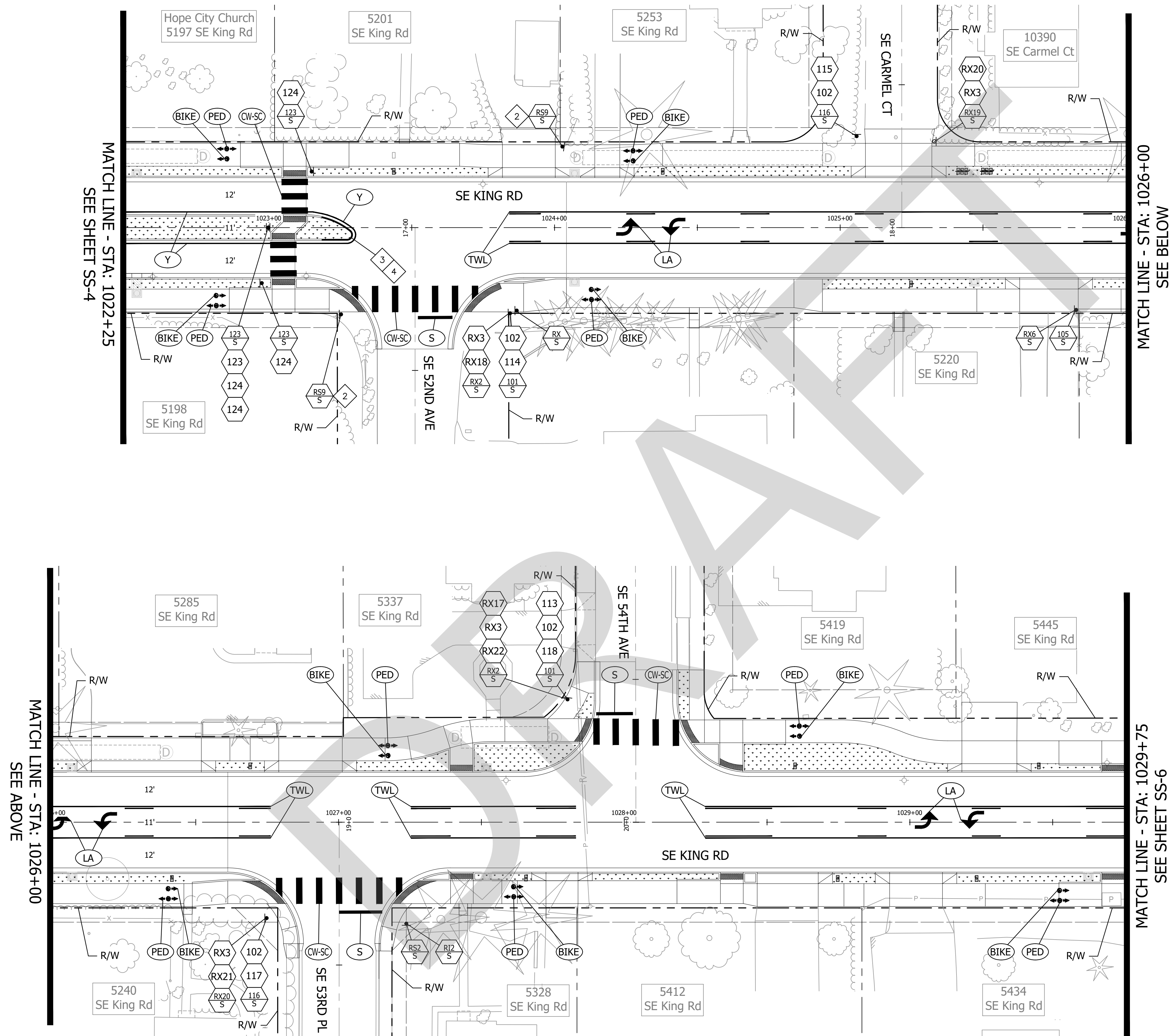
Submission Date:	November 12, 2024
Drawn:	AMW
Designed:	AMW
Checked:	JBK

PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

SIGNING & STRIPING PLANS

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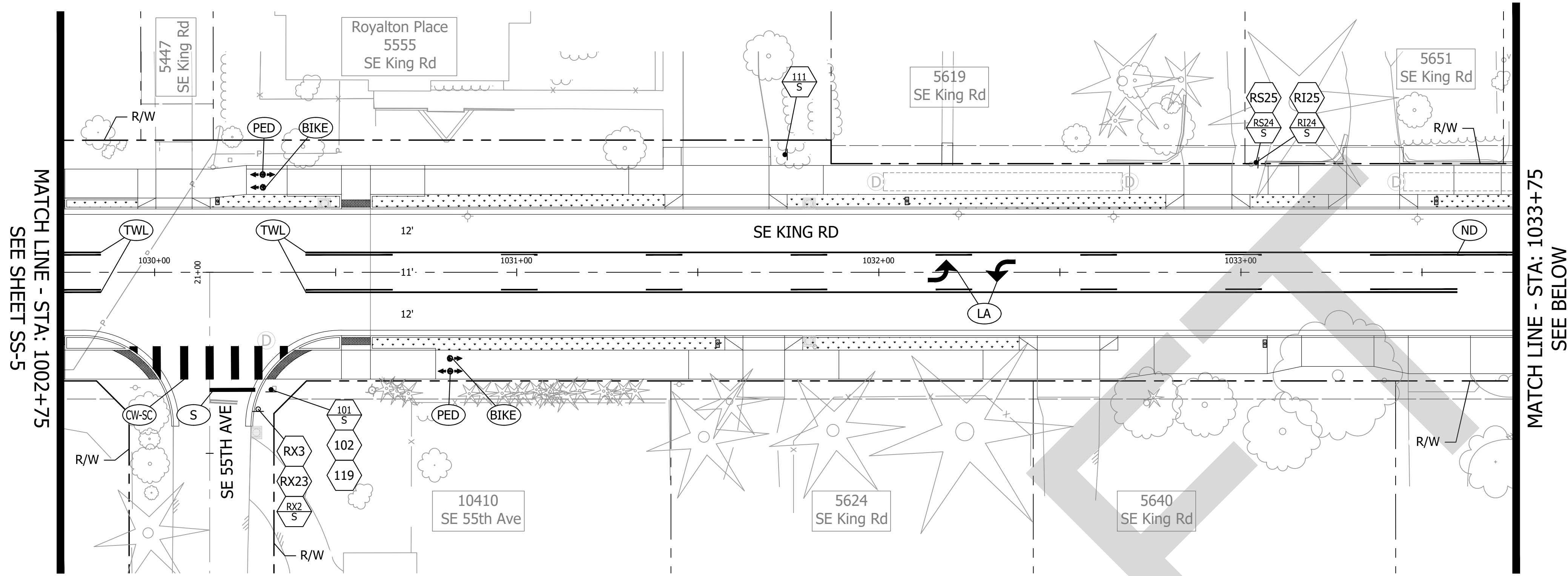
**Note:**  
 See Sheet SS-1 for Legend  
 and General Notes

#	DATE	REVISION	APP'D

Submission Date:  
 November 12, 2024  
 Drawn: AMW    Designed: AMW    Checked: JBK  
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**C2023-032**

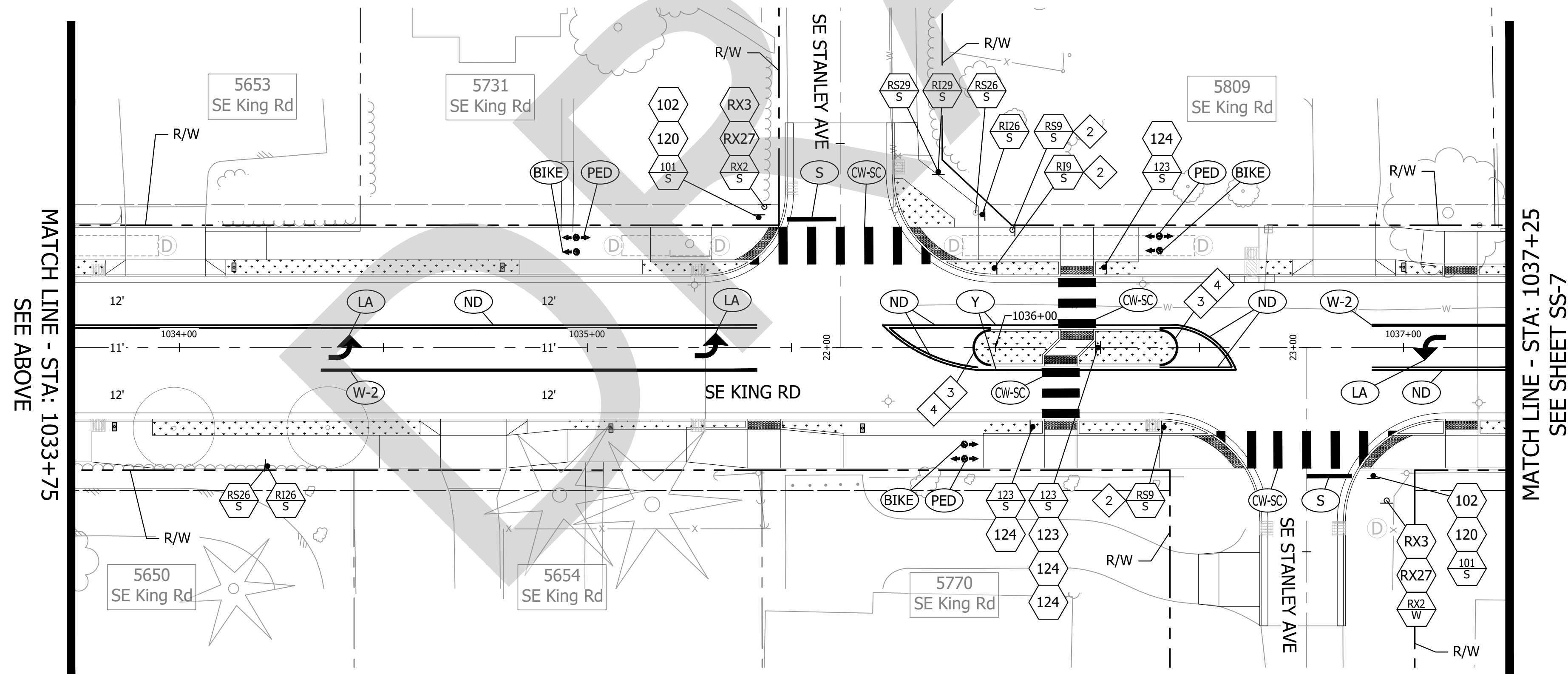
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 SIGNING & STRIPING PLANS

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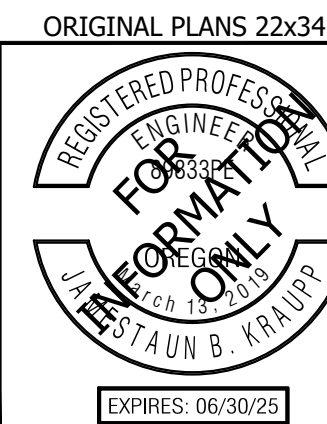
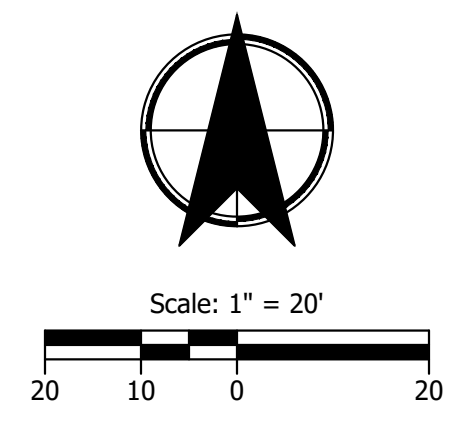
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SEE SHEET SS-5

MATCH LINE - STA: 1033+75  
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MATCH LINE - STA: 1033+75  
SEE ABOVE

MATCH LINE - STA: 1037+25  
SEE SHEET SS-7



Note:  
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CITY OF MILWAUKEE

**KITTELSON & ASSOCIATES**

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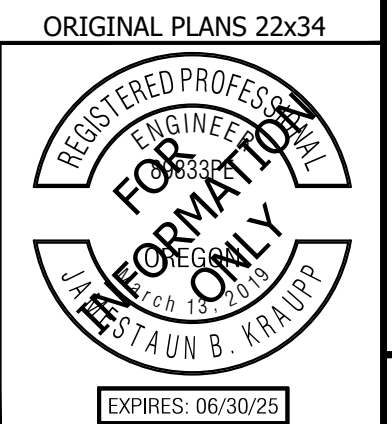
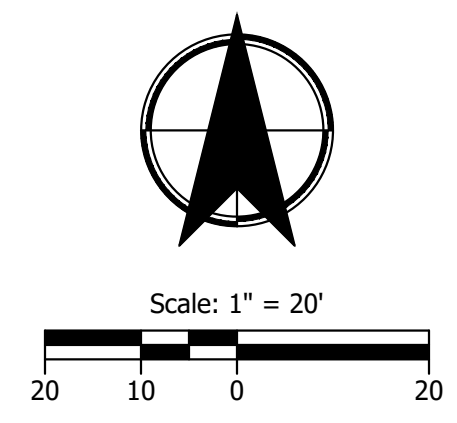
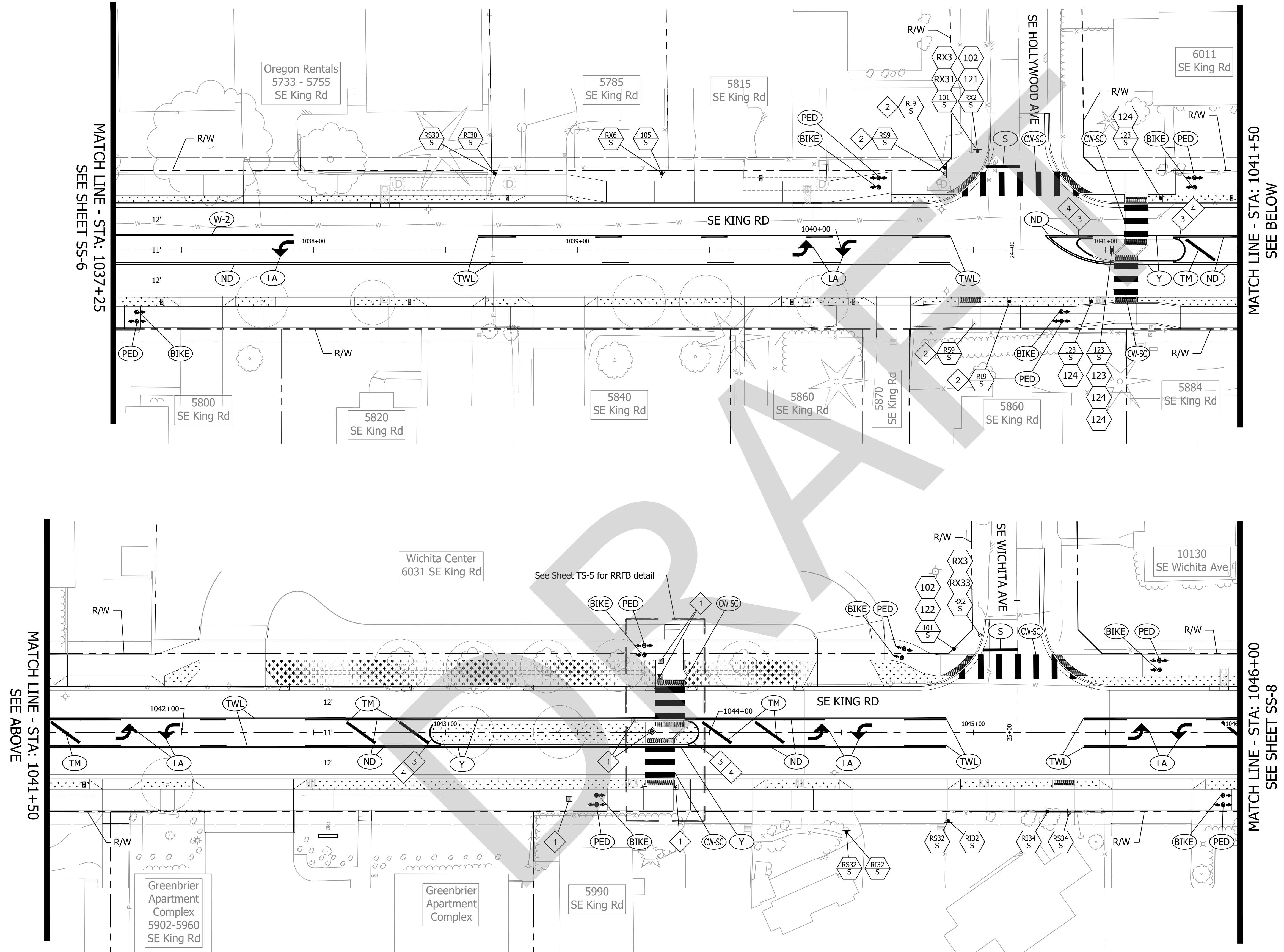
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KING ROAD IMPROVEMENTS  
SE 43RD AVE TO SE LINWOOD AVE


SIGNING & STRIPING PLANS

SHEET NO.  
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**C2023-032**

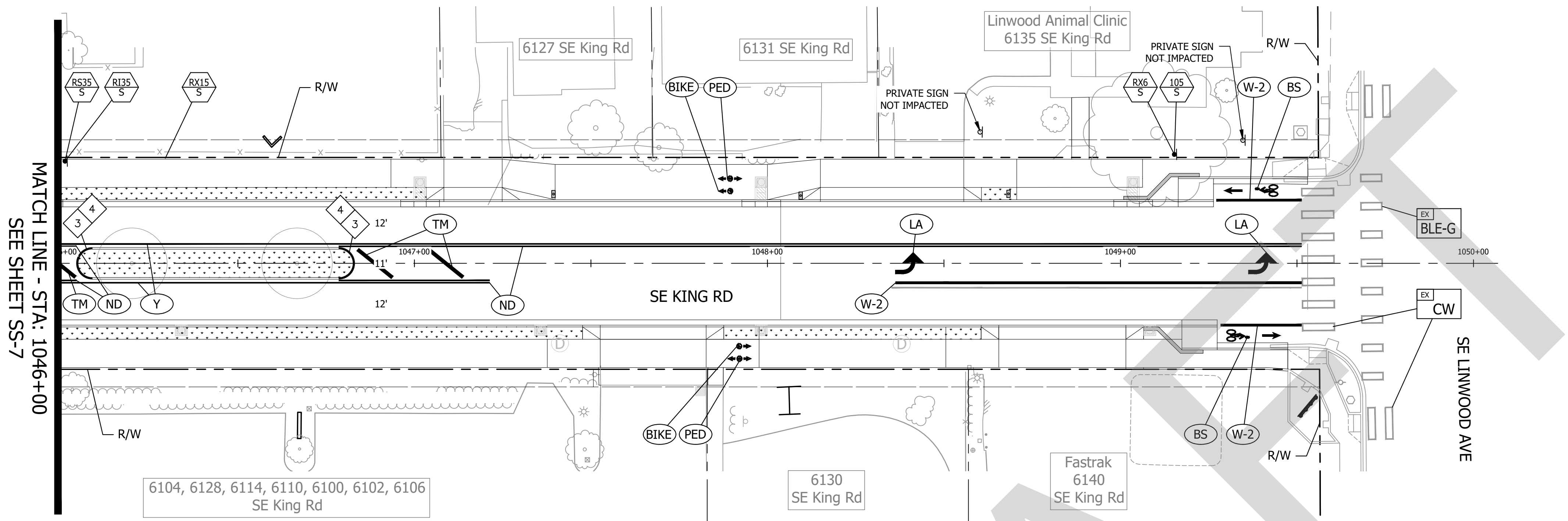
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 SE 43RD AVE TO SE LINWOOD AVE

SIGNING & STRIPING PLANS

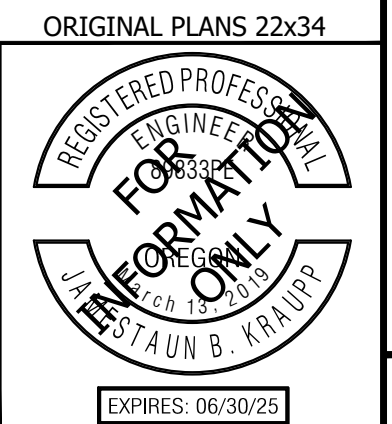
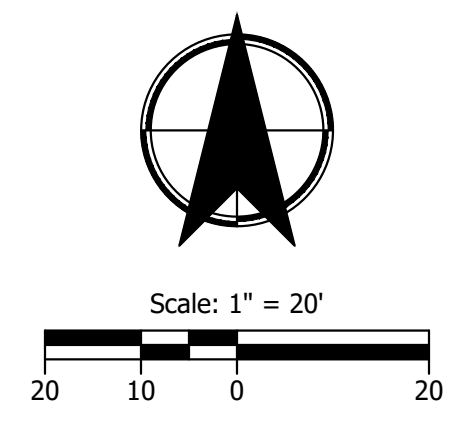
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EXP. 06/30/25

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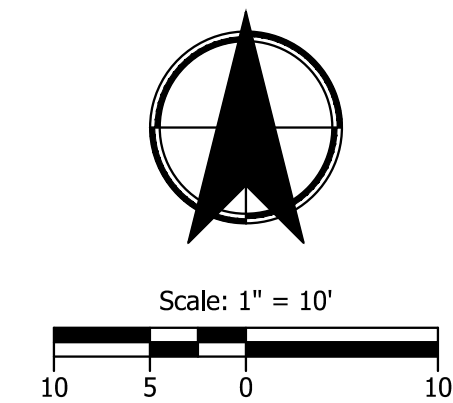
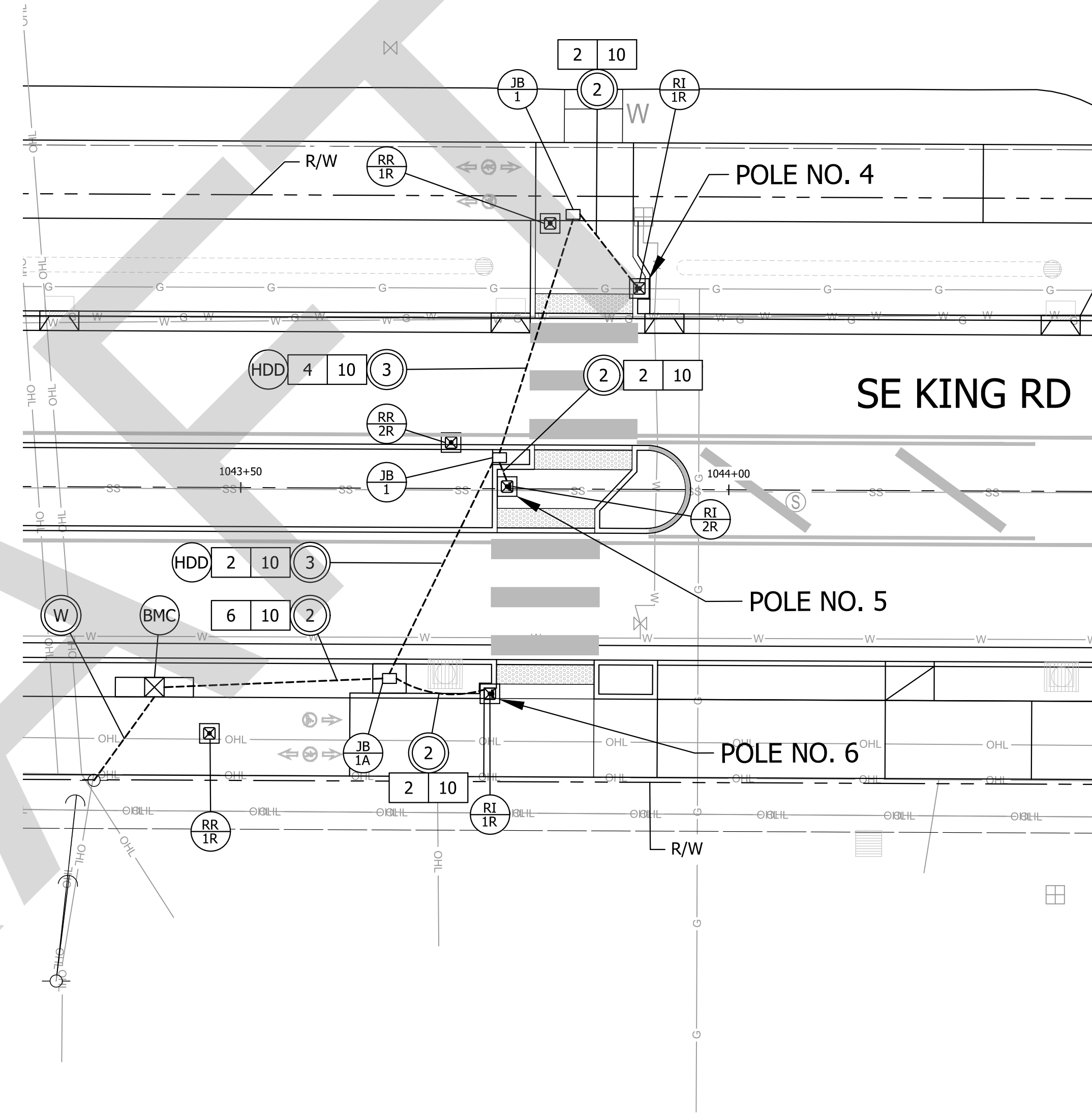
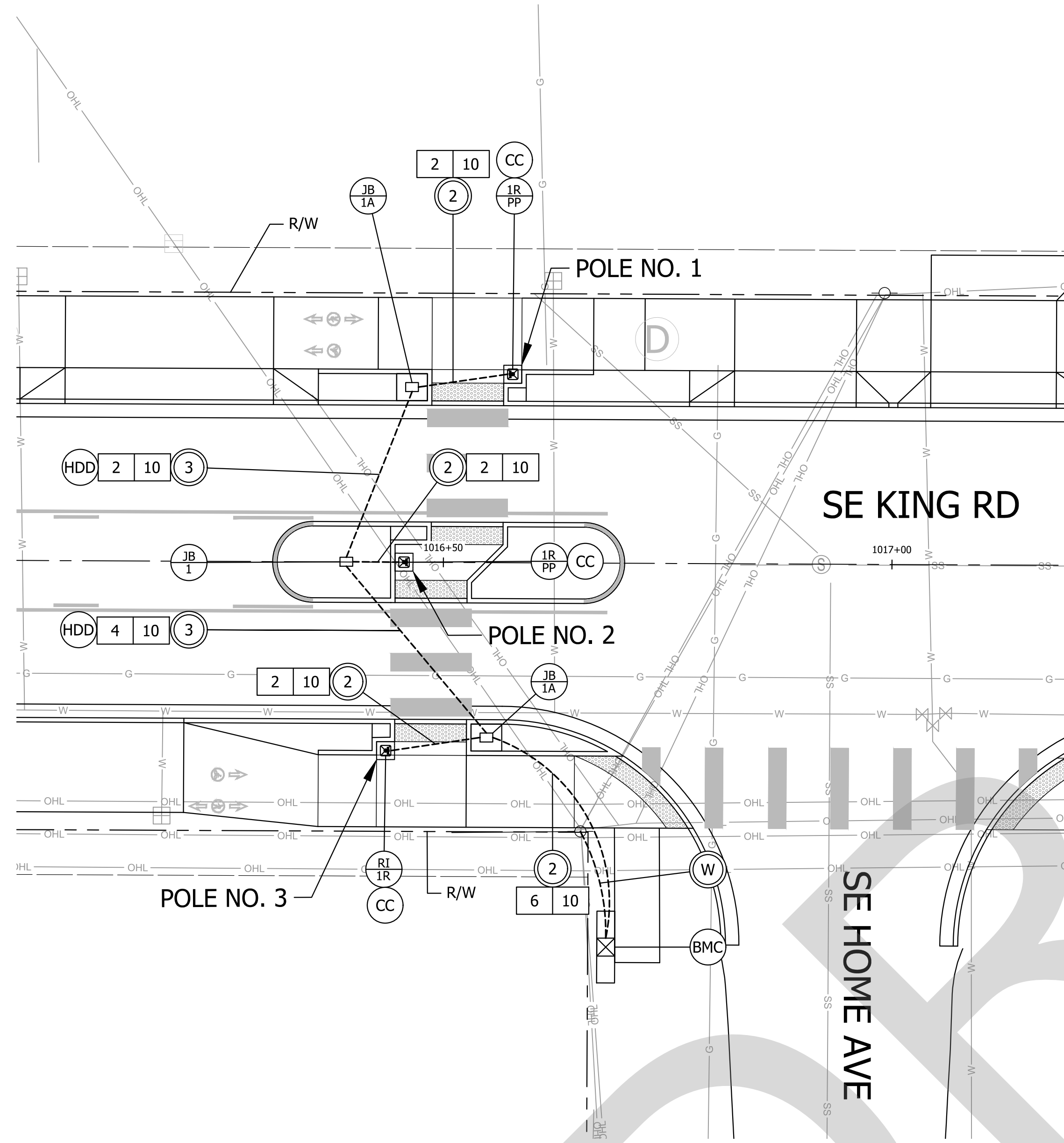
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 SIGNING & STRIPING PLANS





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**KITTELSON & ASSOCIATES**  
 CITY OF MILWAUKIE  
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 PORTLAND, OR 97204  
 P 503.228.5230 F 503.273.8169

#	DATE	REVISION	APP'D

Submission Date: November 12, 2024  
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PROJECT NO. C2023-032

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE  
 RRFB PLAN  
 SE KING ROAD AT SE HOME AVE  
 AND WITCHITA AVE CENTER

SHEET NO. TS-3

**CITY OF MILWAUKIE WATER NOTES:**

- ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF MILWAUKIE STANDARDS, OREGON HEALTH AUTHORITY ADMINISTRATIVE RULES, CHAPTER 333, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), AND THE OREGON PLUMBING SPECIALTY CODE (OPSC), CURRENT EDITIONS.
- CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH AND TYPE OF ALL UTILITIES AND INTERFERENCES SITUATED ALONG ROUTE OF PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION AND INSTALLATION. CONTRACTOR SHALL, AT THEIR EXPENSE AND COST, CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXTG UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE PROJECT ENGINEER.
- CONTRACTOR SHALL ATTEND A PRE-CONNECTION MEETING WITH CITY PRIOR TO START OF CONNECTION WORK. THE CONTRACTOR WILL MEET WITH THE CITY ON PROJECT SITE TO VERIFY PROPER MATERIALS PRIOR TO ANY WATER INSTALLATION. THE CONTRACTOR MUST PROVIDE A CHLORINATION AND DECHLORINATION PLAN TO THE CITY FOR APPROVAL THAT COMPLIES WITH AWWA REGULATIONS.
- CONTRACTOR MAY NEED TO TRENCH SUBSTANTIALLY AHEAD IN ORDER TO DETERMINE IF THERE ARE ANY UTILITY CONFLICTS AND AVOID REMOVING PIPING WITH FIELD-LOK. CONTRACTOR TO PLAN AND BUDGET ACCORDINGLY. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- WATER METERS TO BE FURNISHED AND INSTALLED BY CITY OF MILWAUKIE UNLESS OTHERWISE INDICATED. CONTRACTOR TO FURNISH AND INSTALL ALL FITTINGS, METER BOX, AND LID PER CITY OF MILWAUKIE STANDARDS.
- GATE VALVES 4" THROUGH 8" SHALL BE RESILIENT WEDGE, NON-RISING STEM WITH "O" RING PACKING, COMPLYING WITH THE AWWA CLASS C SPECIFICATIONS.
- BUTTERFLY VALVES SHALL BE NON-RISING STEM WITH "O" RING PACKING AND COMPLY WITH THE AWWA CLASS C SPECIFICATIONS.
- RETAINER GLANDS ARE REQUIRED FOR ALL MECHANICAL JOINT CONNECTIONS. MEGALUG RETAINER GLANDS SHALL BE USED FOR DUCTILE IRON PIPE CONNECTIONS. GRIPPING RETAINER GLANDS SHALL BE USED FOR CAST IRON PIPE CONNECTIONS.
- THRUST BLOCKS SHALL NOT BE USED ON TEES, BENDS OR BLOW-OFFS, UNLESS OTHERWISE NOTED, PROVIDED THAT ALL RESTRAINT FITTINGS ARE INSTALLED WITH MANUFACTURER SPECIFIED TORQUE. CONTRACTOR IS RESPONSIBLE FOR HAVING A FUNCTIONAL TORQUE WRENCH ON-SITE. CONTRACTOR SHALL PLACE 8-MIL PLASTIC SHEETING BETWEEN THRUST BLOCKS AND PIPE FITTINGS. IF A THRUST BLOCK IS USED, SEE OSD RD 250 FOR ADDITIONAL REQUIREMENTS.
- PIPE BEDDING AND PIPE ZONE SHALL BE CLASS B AND COMPACTED PER OSSC STANDARDS IN ALL PUBLIC RIGHTS-OF-WAY OR PAVED AREAS IN THE PROJECT. TRENCH BACKFILL TO BE CLASS A IN LANDSCAPE AREAS AND CLASS B IN ALL OTHER AREAS WITHIN THE PUBLIC ROW.
- ALL BOLTED TOGETHER JOINTS AND VALVES SHALL HAVE CORROSION RESISTANT 8MIL WRAP.
- CITY WATER CREWS HAVE THE RIGHT TO REMOVE OR KEEP ANY OR ALL OLD WATER INFRASTRUCTURE THAT IS EXPOSED BY CONTRACTOR.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION SHALL NOT EXCEED 3°.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER SEPARATION BETWEEN SANITARY LINES AND WATERLINES AS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND STATE DEPARTMENT OF HEALTH.
- CONTRACTOR SHALL REQUEST WATER SYSTEM SHUT DOWN FROM THE CITY OF MILWAUKIE PROJECT MANAGER AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF ANY PLANNED SERVICE DISRUPTION. UPON APPROVAL, CONTRACTOR WILL PROVIDE NOTIFICATION (CITY WILL PROVIDE DOOR HANGERS TO BE DISTRIBUTED) OF SERVICE DISRUPTION TO THE AFFECTED WATER CUSTOMERS FIVE (5) CALENDAR DAYS IN ADVANCE OF SERVICE DISRUPTIONS.
- WATER LINE FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF MILWAUKIE STANDARDS. CONTRACTOR SHALL PROVIDE ALL HOOK-UPS, PIPING, HOSES, AND ALL OTHER EQUIPMENT FOR FLUSHING. CONTRACTOR TO COORDINATE FLUSHING WITH CITY OF MILWAUKIE PROJECT MANAGER. CITY INSPECTOR TO BE ON SITE TO MEASURE VELOCITY PRODUCED.
- HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF MILWAUKIE STANDARDS. THE TEST SHALL CONFORM WITH AWWA C600, SECTION 4 WITH THE FOLLOWING MODIFICATIONS. THE TEST PRESSURE SHALL BE 180 PSI OR 1.5 TIMES THE NORMAL WORKING PRESSURE, WHICHEVER IS HIGHER, MEASURED AT THE POINT OF HIGHEST ELEVATION. THE DURATION SHALL BE 60 MINUTES WITH NO LOSS IN PRESSURE. TESTING SHALL BE MONITORED BY THE CITY OF MILWAUKIE INSPECTOR. DISINFECTION OF THE LINE SHALL BE PERFORMED AFTER THE HYDROSTATIC TESTING. CONTRACTOR SHALL USE A PRESSURE GAUGE THAT READS IN ONE POUND INCREMENTS.
- DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF MILWAUKIE STANDARDS AND CONFORM TO AWWA C651. PIPELINES SHALL BE FLUSHED AND DISINFECTED BEFORE PLACING INTO SERVICE. DISCHARGING OF THE CHLORINATED WATER USED FOR DISINFECTION INTO SURFACE WATERS IS PROHIBITED. APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING DISCHARGE SHALL BE FOLLOWED. OREGON STATE HEALTH DIVISION BACTERIOLOGICAL TESTS SHALL BE TAKEN BY THE CITY OF MILWAUKIE.
- ALL NEW WATERLINES SHALL PASS HYDROSTATIC TESTING AND DISINFECTION PRIOR TO CONNECTION TO THE EXTG SYSTEM UNLESS OTHERWISE INDICATED OR APPROVED. CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE ENDS OF THE WATER MAINS TO PERFORM TESTING AND DISINFECTION.
- DUE TO THE AGE OF THE EXTG WATERLINES AND VALVES, LEAKAGE OF EXTG FACILITIES MAY OCCUR DURING CONSTRUCTION OF TIE-INS. CONTRACTOR SHALL HAVE ON-SITE PUMPS ADEQUATE TO KEEP TRENCHES DE-WATERED AND WILL FOLLOW ALL CITY STORMWATER REQUIREMENTS FOR DEWATERING.
- OPERATION OF ALL EXTG VALVES TO ISOLATE WATERLINES FOR THE REQUIRED WORK SHALL BE CONDUCTED BY CITY OF MILWAUKIE EMPLOYEES ONLY.
- "STICK BY STICK" CONSTRUCTION MAY BE REQUIRED IN AREAS WHERE PROPOSED WATERLINE IS CLOSE TO EXTG WATER MAIN. IF TRENCH OF THE EXTG WATERLINE IS FALLING INTO THE NEW CONSTRUCTION TRENCH, OR IF THE EXTG WATERLINE IS EXPOSED, "STICK BY STICK" CONSTRUCTION WILL BE REQUIRED.
- ALL TEES, ELBOWS, CHANGES IN PIPE DIRECTION AND PIPE CONNECTIONS THEMSELVES, SHALL HAVE PUSH-ON RUBBER GASKETED JOINTS AND BE INSTALLED USING FIELD-LOK OR APPROVED EQUAL LOCKING GASKET. PUSH-ON AND MECHANICAL PIPE JOINTS SHALL CONFORM TO ANSI/AWWA SPECIFICATION C111/A21.11 AND FLANGED JOINTS SHALL CONFORM TO ANSI/AWWA C115/A21.15. THRUST BLOCKS SHALL NOT BE USED UNLESS CALLED OUT OR INDICATED.

- HOT TAPS SHALL HAVE A Poured-IN-PLACE CONCRETE THRUST BLOCK. CONTRACTOR SHALL PLACE 8-MIL PLASTIC SHEETING BETWEEN THRUST BLOCKS AND PIPE FITTINGS. CITY MUST APPROVE SUB-CONTRACTOR DOING DIRECT TAPPING ON LIVE CITY WATER MAINS.
- IF CONNECTING TO CITY FIRE HYDRANT FOR TEMPORARY WATER, CONTRACTOR TO RENT BACKFLOW PREVENTER AND HYDRANT METER THROUGH THE CITY. CITY PUBLIC WORKS WILL INSTRUCT CONTRACTOR ON USE. CONTRACTOR TO PROVIDE DEPOSIT AND PAPERWORK TO CITY BUILDING DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR SECURING METER AND BACKFLOW EACH NIGHT TO PREVENT DAMAGE OR THEFT.
- WHERE NEW WATER METER, SERVICES AND HYDRANTS ARE BEING INSTALLED, SIDEWALK PANELS SHALL BE CUT IN FULL AND REPLACED. DISPOSAL IS RESPONSIBILITY OF CONTRACTOR. SIDEWALK SCORING SHALL MATCH EXTG SCORING. CONTRACTOR SHALL PLACE AND MAINTAIN TEMPORARY BACKFILL OR TEMPORARY TRAFFIC STEEL PLATE ON OPEN SIDEWALK AREA FOR DURATION OF PROJECT, UNTIL SIDEWALK IS READY TO BE Poured.
- THE CONTRACTOR WILL NOTIFY THE CITY WHEN ANY EXCAVATION WORK CAN COMPROMISE ANY RESTRAINT OR THRUSTING OF WATER MAINS.
- THE CONTRACTOR MUST MAINTAIN PIPE PLUGS IN NEW WATER MAIN DURING MAINLINE CONSTRUCTION.
- PROVIDE AND INSTALL A RESTRAINED CAP/PLUG ON ALL ABANDONED OLD MAINS AND ACCURATELY DOCUMENT ON AS-BUILTS.
- TRACER WIRE TO BE INSTALLED ON ALL PUBLIC OWNED PLASTIC WATER PIPES PER OSD RD 300 AND RD 336.
- ANY LEADED FITTINGS OR SERVICE LINES EXPOSED DURING WORK THAT WERE NOT PREVIOUSLY IDENTIFIED FOR REPLACEMENT NEED TO BE COMMUNICATED TO THE PROJECT MANAGER IMMEDIATELY.
- WHEN ADJUSTING GRADE AT EXTG FIRE HYDRANT, IF BARREL EXPOSURE BETWEEN FLANGE AND FINISHED GRADE WILL EXCEED 6", A SHORTER BARREL SHALL BE INSTALLED. IF FLANGE WILL BE BELOW FINISHED GRADE, A RISER SHALL BE INSTALLED.

**WATERLINE GENERAL NOTES:**

- ALL WATERLINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF MILWAUKIE DESIGN AND CONSTRUCTION STANDARDS, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), AND THE OREGON PLUMBING SPECIALTY CODE (OPSC), CURRENT EDITIONS.
- LOCATIONS SHOWN FOR EXTG UTILITIES ARE BASED ON AVAILABLE INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY DEPTH AND LOCATION OF EXTG UTILITIES PRIOR TO CONSTRUCTION, AND POTHOLE ALL EXTG UTILITIES AS REQUIRED TO AVOID CONFLICTS WITH THE PROPOSED WATERLINE. INFORM THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS.
- THE EXCAVATION CONTRACTOR SHALL CALL THE OREGON UTILITY NOTIFICATION CENTER (1-800-332-2344) AT LEAST 48 HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE BEGINNING EXCAVATION. 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. COPIES OF THE RULES ARE AVAILABLE THROUGH THE NOTIFICATION CENTER. IF ADDITIONAL INFORMATION IS DESIRED, YOU MAY CONTACT THE WATER DEPARTMENT AT 503-615-6700.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF MILWAUKIE WATER DIVISION AT 503-786-7600 A MINIMUM 48 HOURS (TWO BUSINESS DAYS) PRIOR TO CONSTRUCTION. WEEKENDS AND HOLIDAYS ARE NOT TO BE COUNTED AS PART OF NOTIFICATION TIME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER HORIZONTAL AND VERTICAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATERLINES AS REQUIRED BY THE OREGON HEALTH AUTHORITY, PUBLIC HEALTH DIVISION, OAR 333-061-0050.
- ON-SITE DOMESTIC WATER SERVICE LINES SHALL BE INSTALLED AS REQUIRED BY OPSC. CONTACT THE CITY OF MILWAUKIE WATER DIVISION AT 503-786-7600 FOR REQUIREMENTS.
- PRIOR TO BEING PLACED IN SERVICE, ALL WATERLINES AND SERVICES SHALL BE LEAK TESTED, FLUSHED, AND STERILIZED BY THE CONTRACTOR, ALL IN ACCORDANCE WITH CITY OF MILWAUKIE DESIGN AND CONSTRUCTION STANDARDS AND OPSC. A WATER DIVISION REPRESENTATIVE MUST BE PRESENT DURING PRESSURE TESTING AND CHLORINATION.
- THE CONTRACTOR SHALL PROTECT ALL WATER APPURTENANCES DURING CONSTRUCTION. ANY TESTED AND APPROVED WATER SERVICE THAT IS DISTURBED PRIOR TO THE CITY'S FINAL ACCEPTANCE OFF ALL PUBLIC IMPROVEMENTS SHALL BE REMOVED AND REPLACED BACK TO THE WATER MAIN AT THE DEVELOPER'S EXPENSE.
- NO CONNECTION TO AN EXTG WATERLINE SHALL BE MADE WITHOUT AUTHORIZATION BY THE CITY OF MILWAUKIE WATER DIVISION.
- NO WATER VALVE SHALL BE OPERATED WITHOUT AUTHORIZATION BY THE CITY OF MILWAUKIE WATER DIVISION.
- IN THE EVENT OF A CONFLICT OR CHANGE IN CONDITIONS, THE CITY OF MILWAUKIE WATER DIVISION RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO THE LOCATION OF A WATERLINE OR APPURTENANCE AS REQUIRED FOR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CITY OF BENDS EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS.
- ALL EXTG ASPHALT CONCRETE (AC) PAVEMENT AND/OR PORTLAND CEMENT CONCRETE (PCC) SHALL BE SAW CUT AS REQUIRED FOR REMOVAL.
- ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION AS DETERMINED BY THE CITY OF MILWAUKIE WATER DIVISION.
- WATER MAIN AND SERVICE SHUT-OFFS SHALL BE COORDINATED THROUGH A WATER DIVISION REPRESENTATIVE. REQUIRED NOTIFICATION FOR SHUT-OFFS SHALL BE DONE ONLY AFTER ACCEPTANCE OF WATERLINE BY WATER DEPT. AND SHALL BE DONE 48 HOURS PRIOR FOR RESIDENTIAL PROPERTIES AND 72 HOURS PRIOR FOR COMMERCIAL OR INDUSTRIAL PROPERTIES, NOT COUNTING WEEKENDS & HOLIDAYS. FAILURE TO PERFORM WORK WITHIN THE STATED TIME WILL REQUIRE RE-NOTIFICATION.
- THE CONTRACTOR SHALL CONFINE PUBLIC IMPROVEMENT WORK TO THE DEDICATED RIGHT-OF-WAY AND UTILITY EASEMENT AREAS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CITY-STAMPED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- EXTG SURVEY MONUMENTS ARE TO BE PROTECTED DURING CONSTRUCTION OR REPLACED IN ACCORDANCE WITH OREGON REVISED STATUTES 209.140, 209.150, AND 209.155.
- RECONNECT ALL CUSTOM SERVICE LINES AFTER WATERLINE TESTING IS COMPLETE.
- MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL CLEARANCE FROM EXTG SANITARY LINES. MAINTAIN A MINIMUM OF 18 INCHES VERTICALLY FROM ALL UTILITIES.
- MAINTAIN 10-FEET CLEARANCE FROM EXTG SANITARY SEWER LINES (CENTER TO CENTER).
- MARKING TAPE IS REQUIRED ON ALL MAINS. MARKING TAPE MUST BE MINIMUM 2 INCHES WIDE, APWA BLUE, AND STRETCHABLE TO A MINIMUM OF SEVEN TIMES ITS ORIGINAL SIZE. THE MARKING TAPE MUST BE INSTALLED AT THE TOP OF THE PIPE ZONE MATERIAL, 12 INCHES MINIMUM ABOVE THE MAIN, CENTERED ON THE MAIN. REFER TO STANDARD DRAWING W-1.
- GATE VALVES TO BE USED ON ALL WATERLINE 8-INCHES OR SMALLER. BUTTERFLY VALVES TO BE USED ON ALL WATERLINE 12-INCHES OR GREATER.
- HYDRANTS STEAMER NOZZLE SHOULD ALWAYS FACE THE STREET.
- WATERLINE MUST BE CLEANED, TESTED AND APPROVED PRIOR TO ACTIVE STATUS.
- CONTACT AND CONFIRM WITH THE CITY ON ALL INSTALL SEQUENCING TO CONNECT TO EXTG WATERLINES AND ANY WATER SHUT-OFFS REQUIRED.
- IF EXTG WATER SERVICE LINES ARE MADE OF LEAD, CONTRACTOR SHALL REPLACE THE ENTIRE SERVICE LINE BACK TO THE MAIN.

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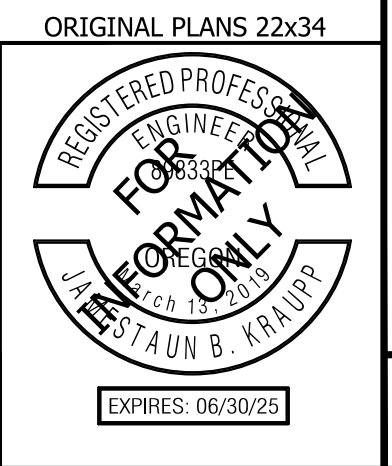
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PROJECT NO.  
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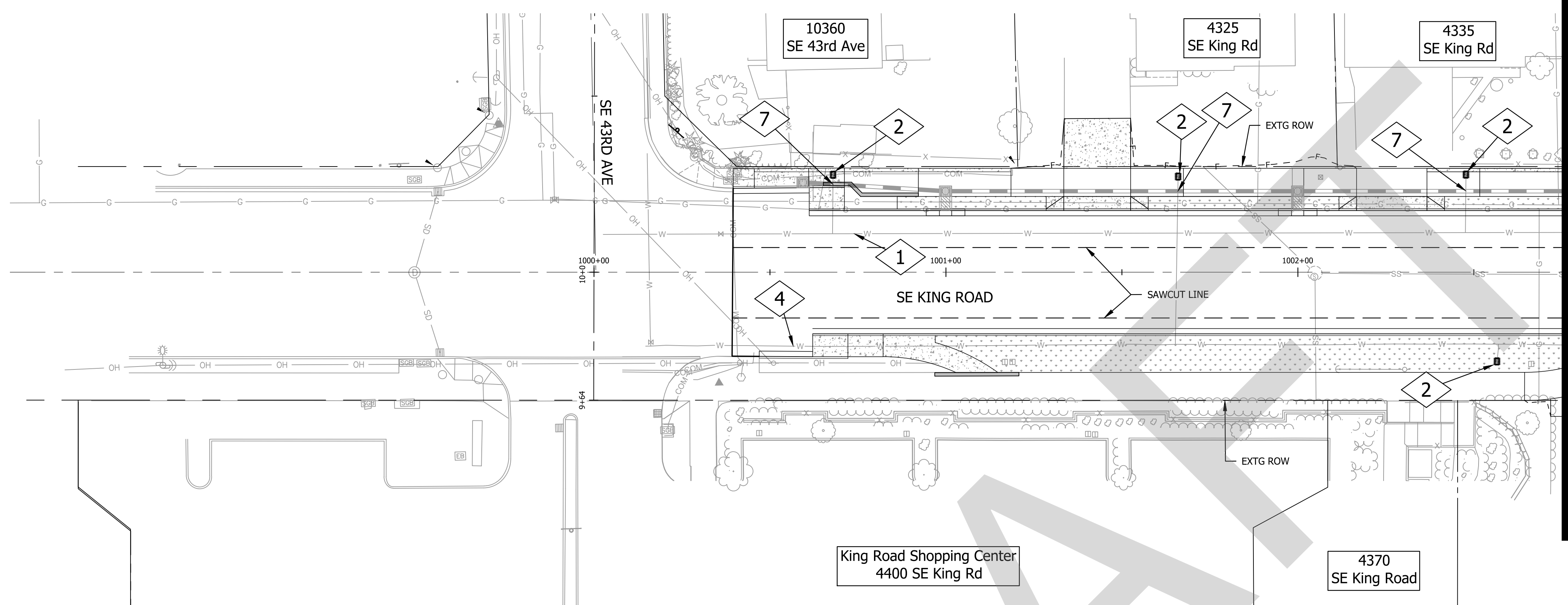
**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

WATER GENERAL NOTES

SHEET NO.  
**W-1**



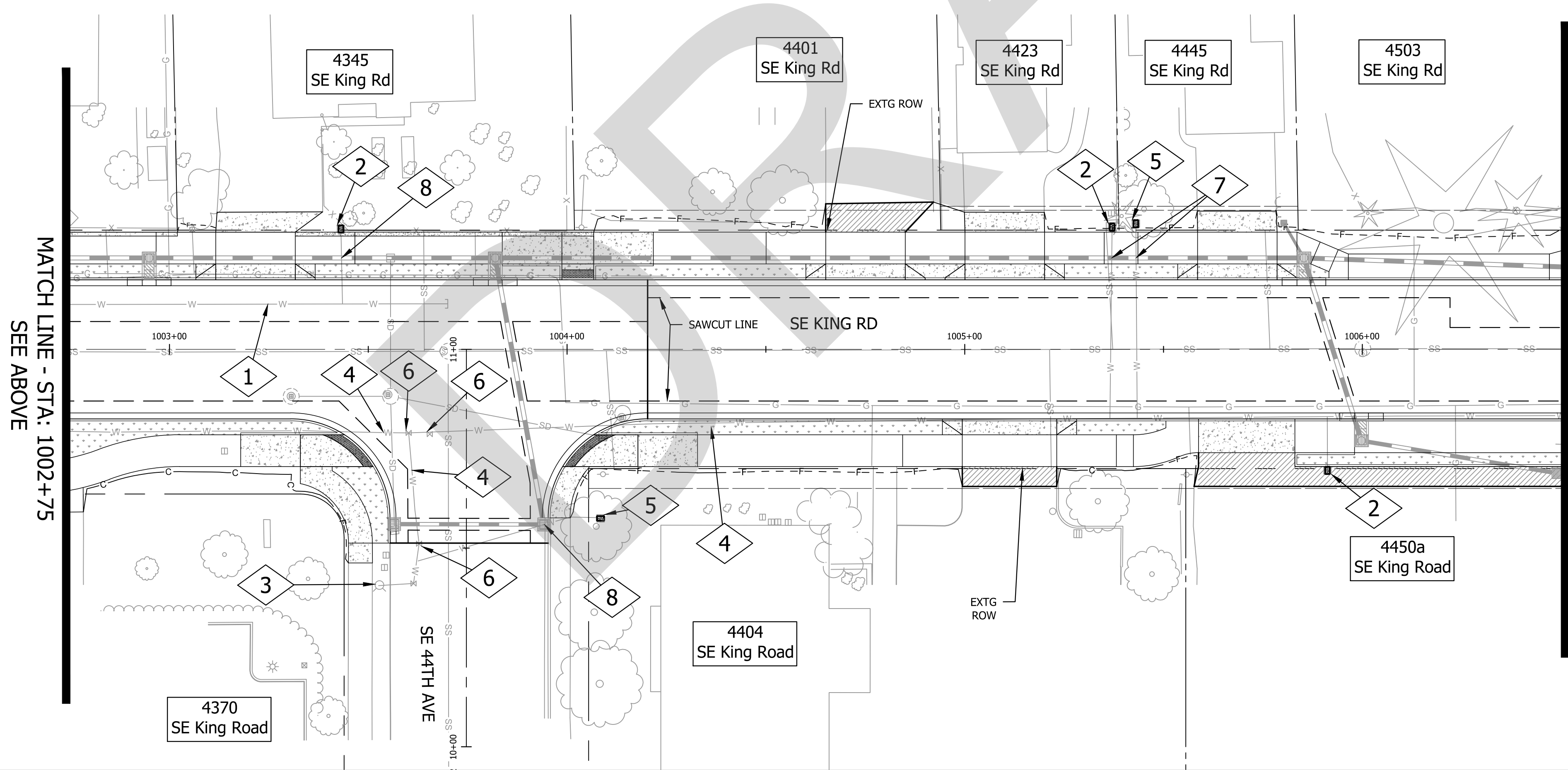
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MATCH LINE - STA: 1002+75  
 SEE BELOW

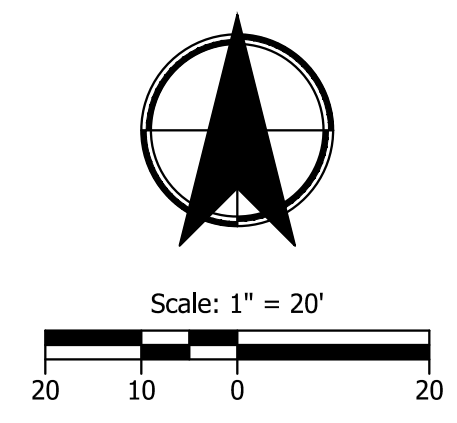
CONSTRUCTION NOTES

- 1 PROTECT AND MAINTAIN  
EXTG CITY 4-INCH DIP WATERMAIN
- 2 ADJUST EXTG WATER METER AND SERVICE  
TO FINISH GRADE (7 EA.)  
REMOVE EXTG METER BOX AND LID  
INSTALL NEW METER BOX AND LID  
PER COM DRAWING NO. 401 OR 402 (SEE SHT W-9)  
(DEPENDENT ON SERVICE SIZE)  
IF EXTG METER BOX AND LID MEETS CITY STANDARD  
SALVAGE AND REINSTALL.
- 3 PROTECT AND MAINTAIN  
EXTG HYDRANT
- 4 PROTECT AND MAINTAIN  
EXTG CITY 8-INCH DIP WATERMAIN.
- 5 PROTECT AND MAINTAIN EXTG SERVICE (2 EA.)  
REMOVE EXTG METER BOX AND LID.  
INSTALL NEW METER BOX AND LID (SEE SHT W-9)  
PER COM DRAWING NO. 401 OR 402  
(DEPENDENT ON SERVICE SIZE)  
IF EXTG METER BOX AND LID MEETS CITY STANDARD  
SALVAGE AND REINSTALL.
- 6 ADJUST EXTG VALVE TO FINISH GRADE (3 EA.)
- 7 PROTECT AND MAINTAIN SERVICE LINE  
SEE STORM WATER PLANS  
FOR UTILITY CROSSING INFORMATION
- 8 ADJUST EXTG SERVICE WATER LINE (2 EA.)  
DUE TO PROPOSED STORM WATER CONFLICT  
MAINTAIN MINIMUM 36" OF COVER  
SEE STORM WATER PLANS  
FOR UTILITY CROSSING INFORMATION

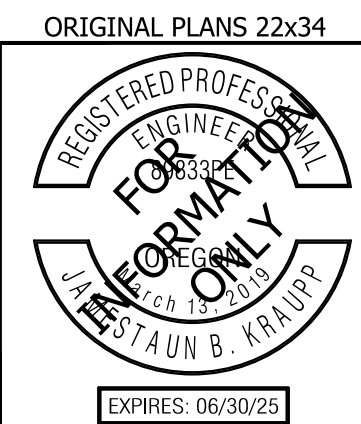


MATCH LINE - STA: 1002+75  
 SEE ABOVE

MATCH LINE - STA: 1006+50  
 SEE SHEET W-3



CONTRACTOR TO VERIFY UTILITY  
 CROSSINGS PRIOR TO CONSTRUCTION  
 AND NOTIFY ENGINEER 2 WEEKS  
 PRIOR TO CONSTRUCTION



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

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Submission Date: November 12, 2024  
 Drawn: DPB    Designed: DPB    Checked: JBK

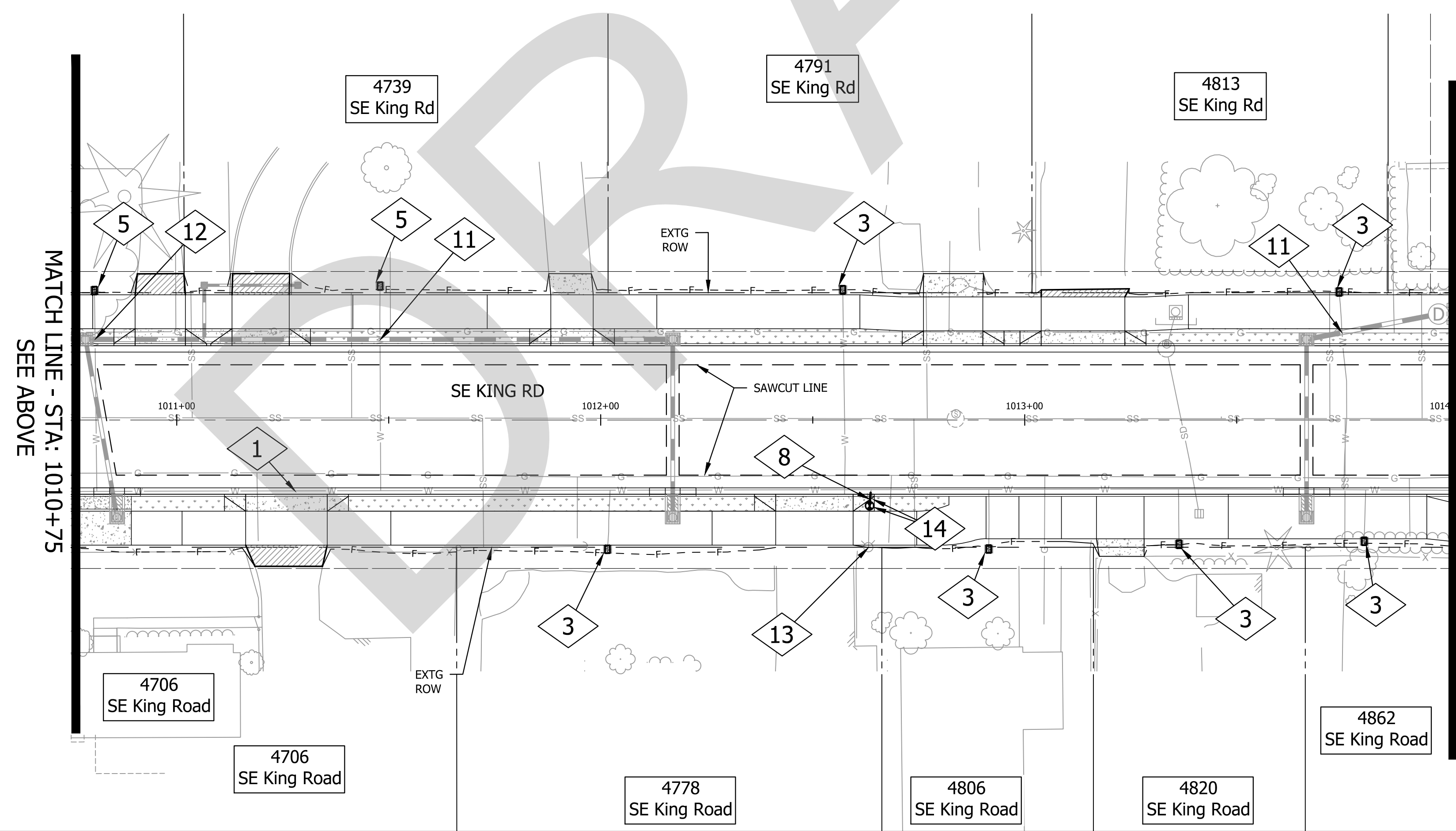
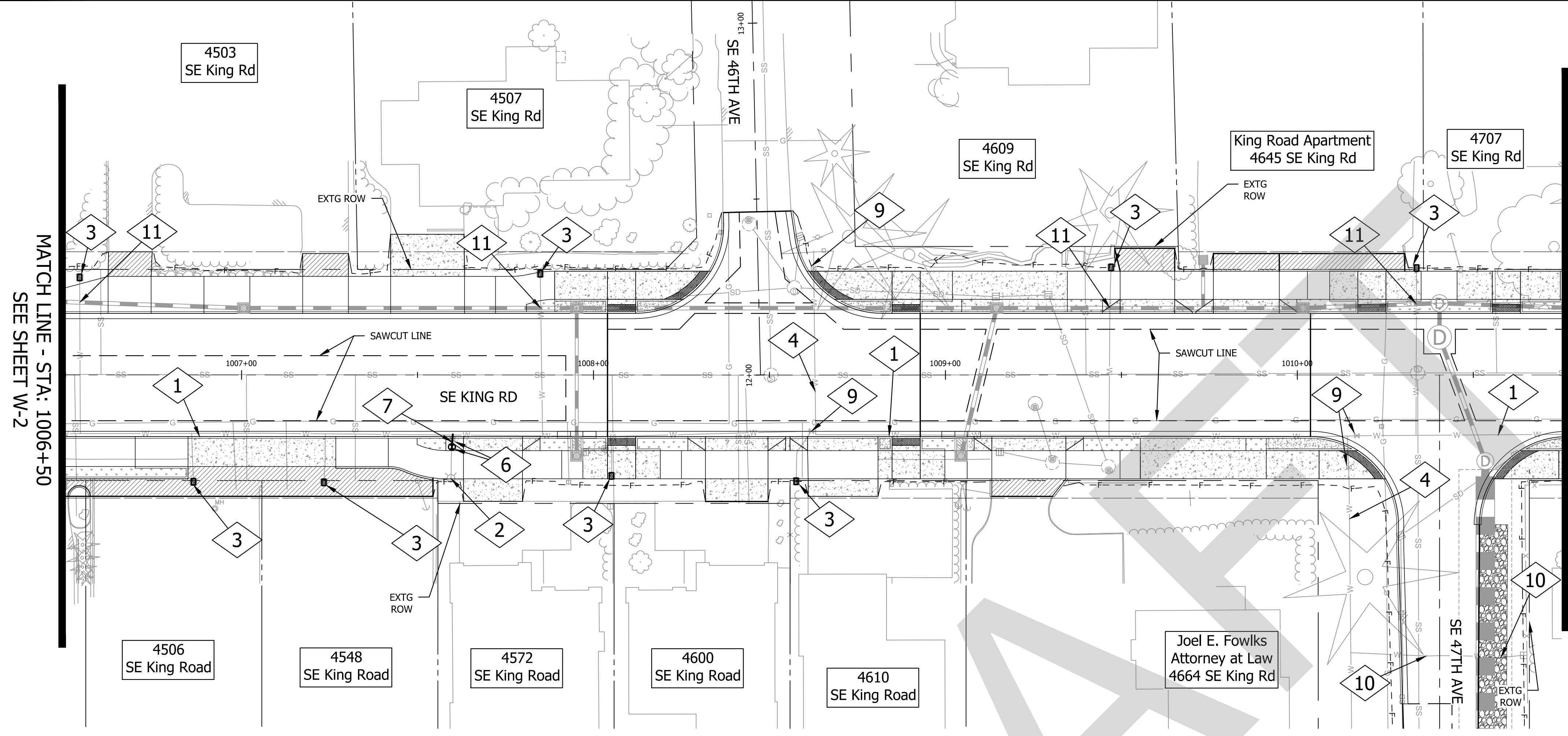
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

WATER PLANS

SHEET NO.  
**W-2**

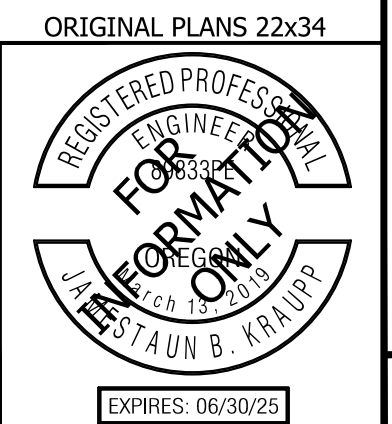
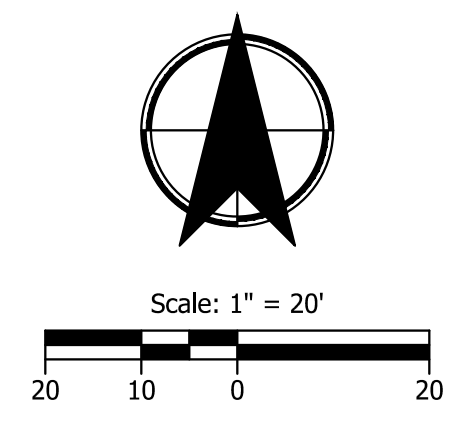
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**CONSTRUCTION NOTES**

- 1 PROTECT AND MAINTAIN EXTG CITY 8-INCH DIP WATERMAIN.
- 2 ADJUST EXTG HYDRANT TO FINISH GRADE (1 EA.) SEE COM DRAWING NO. 406, SHEET W-11
- 3 ADJUST EXTG WATER METER AND SERVICE. TO FINISH GRADE (14 EA.) REMOVE EXTG METER BOX AND LID INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHEET W-9) (DEPENDENT ON SERVICE SIZE)
- 4 PROTECT AND MAINTAIN EXTG CITY 12-INCH DIP WATERLINE
- 5 PROTECT AND MAINTAIN EXTG SERVICE. (2 EA.) REMOVE EXTG METER BOX AND LID. INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHEET W-9) (DEPENDENT ON SERVICE SIZE)
- 6 RELOCATE EXTG HYDRANT VALVE (2 EA.) RECONNECT TO EXTG HYDRANT PER COM DRAWING NO. 406 (SEE SHEET W-11)
- 7 INSTALL 4 LF OF 6" DUCTILE IRON, CLASS 52 PIPE
- 8 INSTALL 3 LF OF 6" DUCTILE IRON, CLASS 52 PIPE
- 9 ADJUST EXTG VALVE TO FINISH GRADE (4 EA.)
- 10 MAINTAIN EXTG WATER SERVICE
- 11 PROTECT AND MAINTAIN SERVICE LINE SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 12 ADJUST EXTG SERVICE WATER LINE DUE TO PROPOSED STORM WATER CONFLICT MAINTAIN MINIMUM 36" OF COVER SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 13 PROTECT AND MAINTAIN EXISTING HYDRANT
- 14 EXISTING VALVE TO REMAIN IN PLACE AND BURY. INSTALL 6" GATE VALVE TO EXISTING VALVE. RECONNECT FIRE HYDRANT ASSEMBLY.

CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION



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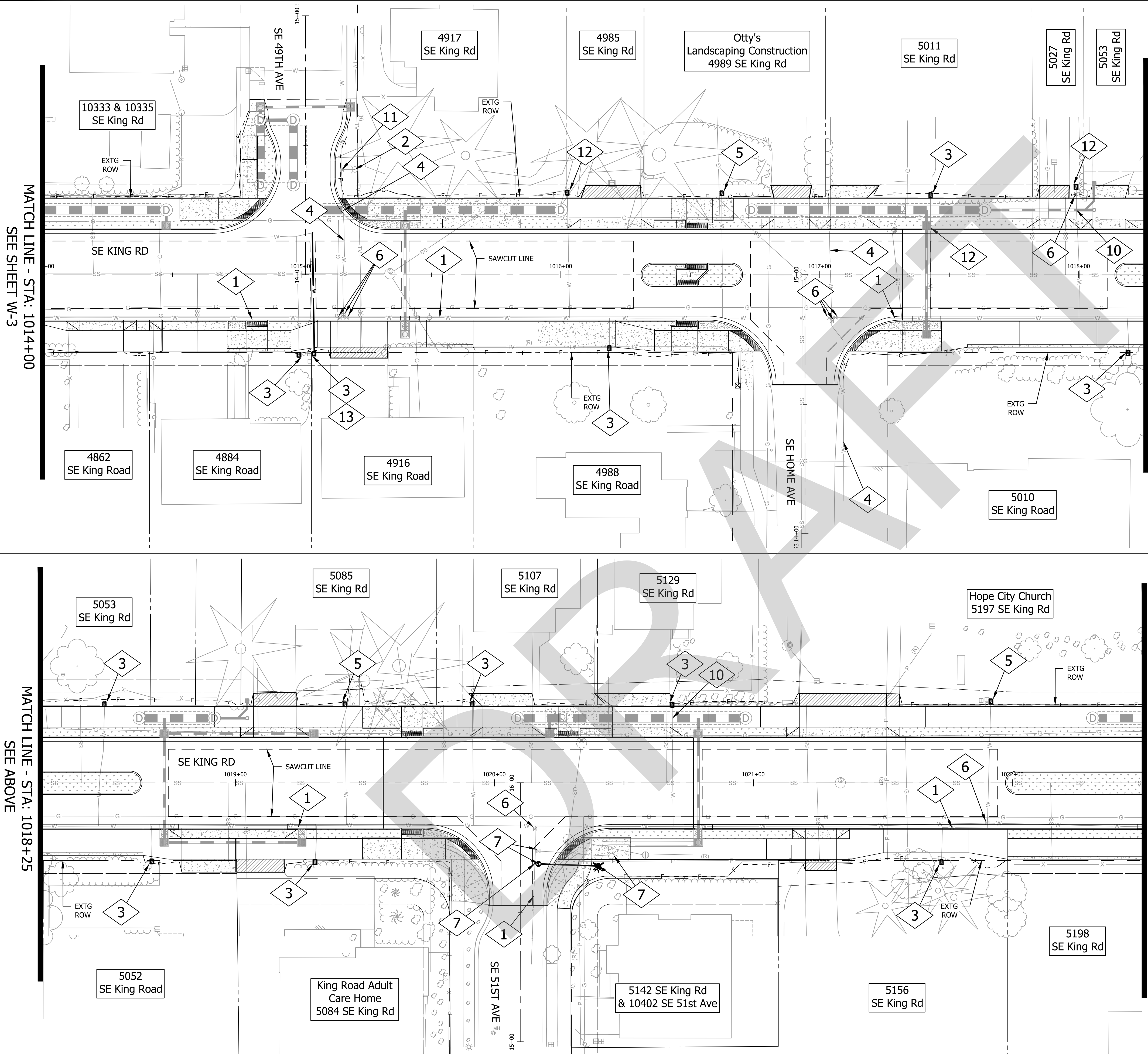
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

WATER PLANS

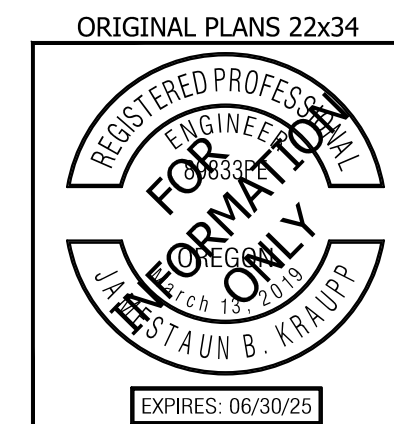
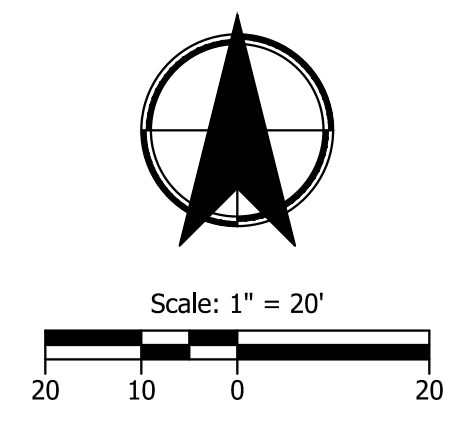
SHEET NO.  
**W-3**

Plot Stamp: 11/11/2024 3:15:58 PM - Allison Winter  
 File: H:\28\28175 - King Road Improvements (43rd to Linwood)\design\CD\W-Water Plans-28175.dwg



- CONSTRUCTION NOTES**
- 1 PROTECT AND MAINTAIN EXTG 8" CITY DIP WATERLINE
  - 2 PROTECT AND MAINTAIN EXTG HYDRANT
  - 3 ADJUST EXTG WATER METER AND SERVICE. TO FINISH GRADE (11 EA.) REMOVE EXTG METER BOX AND LID INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHT W-9) (DEPENDENT ON SERVICE SIZE)
  - 4 PROTECT AND MAINTAIN EXTG CITY 6-INCH DIP WATERLINE
  - 5 PROTECT AND MAINTAIN EXTG SERVICE. (3 EA.) REMOVE EXTG METER BOX AND LID. INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHEET W-9) (DEPENDENT ON SERVICE SIZE)
  - 6 ADJUST EXTG VALVE TO FINISH GRADE (6 EA.)
  - 7 MOVE EXISTING VALVE AND HYDRANT 1020+40.11, 32.12'RT IS THE PROPOSED LOCATION, 1020+15.62, 31.25'RT IS THE PROPOSED CONNECTION TO MAIN LOCATION. INSTALL 24 LF OF 6-INCH DUCTILE IRON, CLASS 52 PIPE SEE COM DRAWING NO. 404 AND 406.
  - 8 (NOT USED)
  - 9 (NOT USED)
  - 10 PROTECT AND MAINTAIN SERVICE LINE SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
  - 11 PROTECT AND MAINTAIN EXTG VALVE.
  - 12 ADJUST EXTG SERVICE WATER LINE (3 EA.) DUE TO PROPOSED STORM WATER CONFLICT MAINTAIN MINIMUM 36" OF COVER SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
  - 13 REMOVE EXISTING SERVICE LINE (1 EA) INSTALL 1-INCH WATER SERVICE CONNECTION PIPING AND RECONNECT EXISTING WATER SERVICE

CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION



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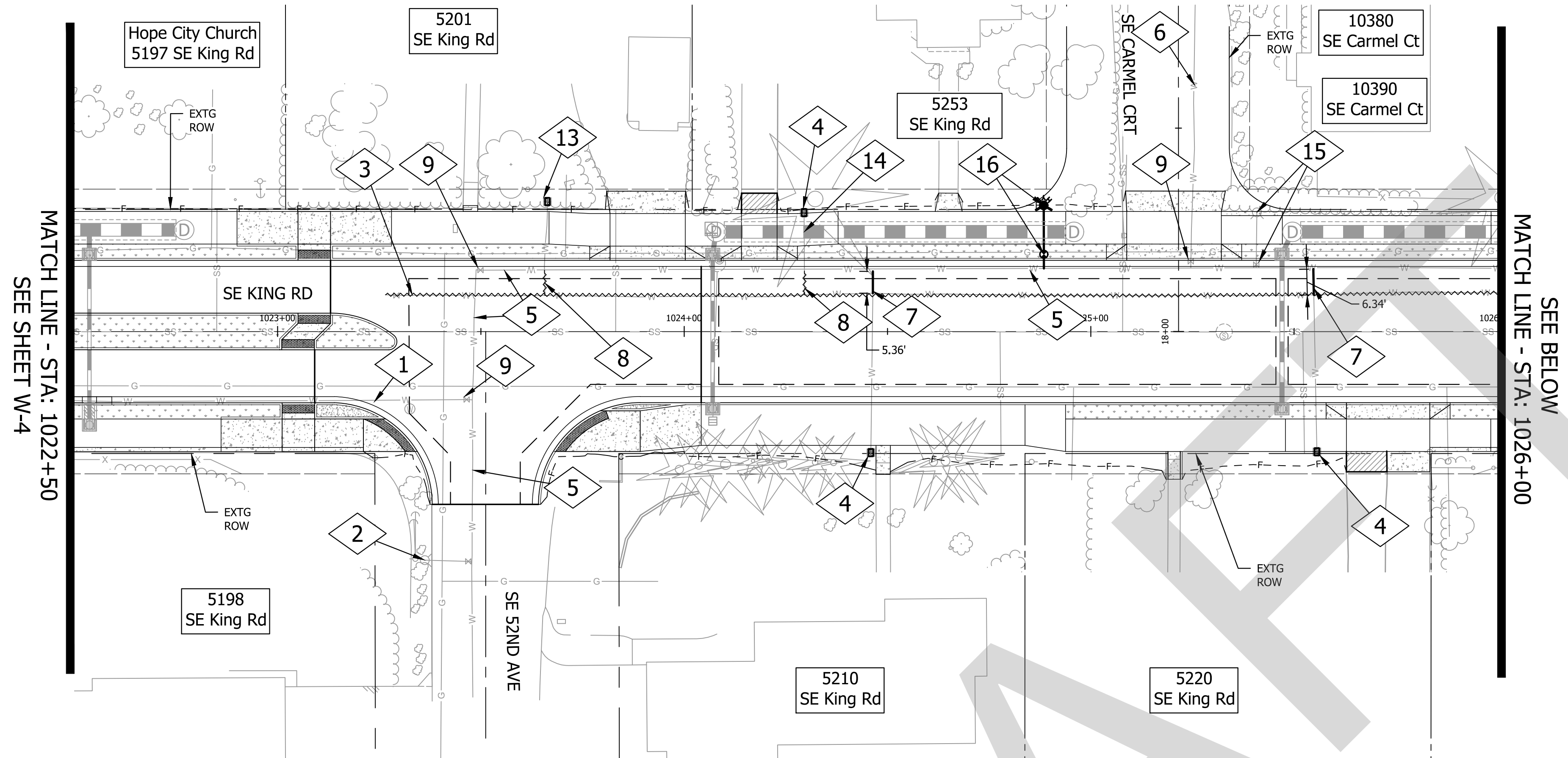
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

WATER PLANS

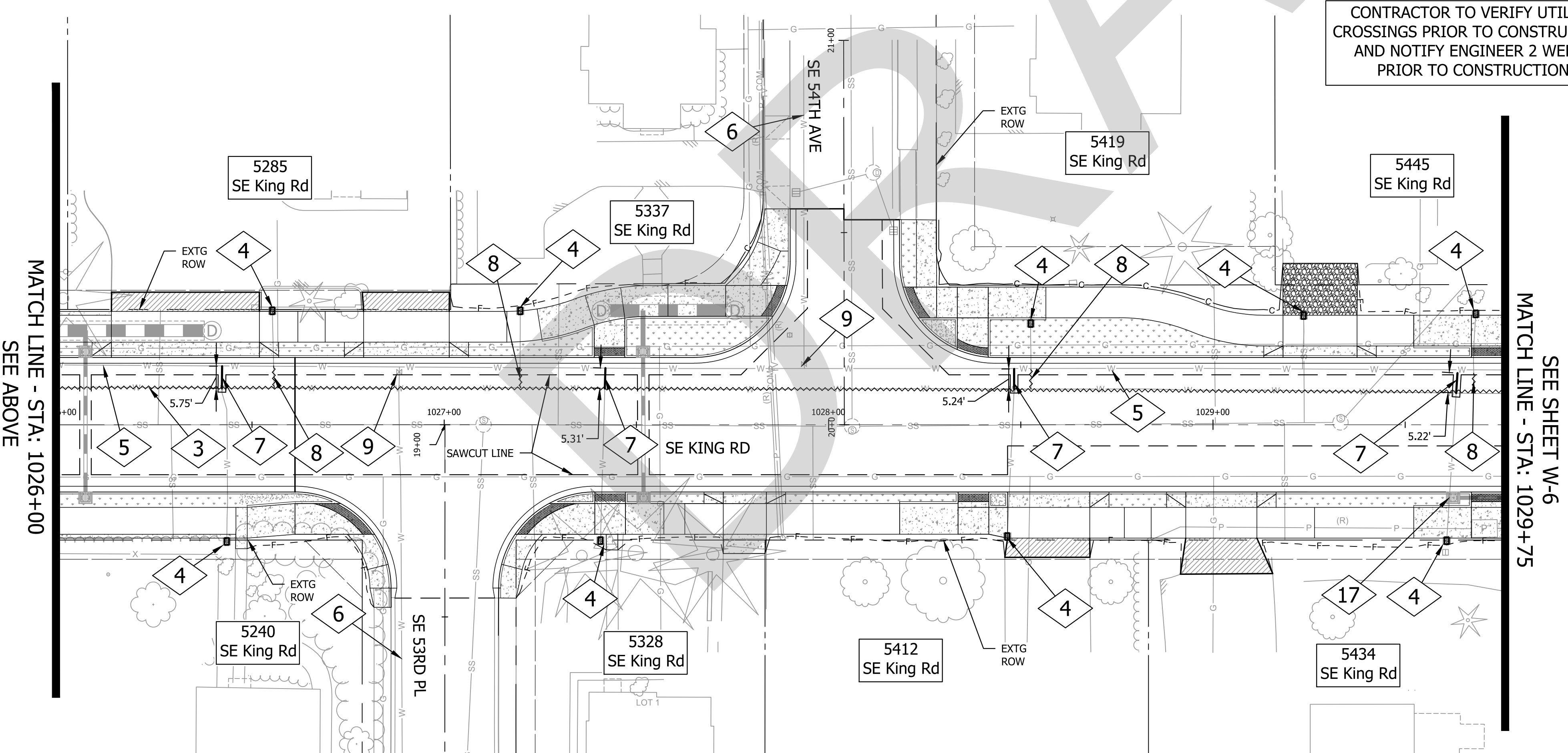
SHEET NO.  
**W-4**

Plot Stamp: 11/11/2024 3:16:04 PM - Allison Winter  
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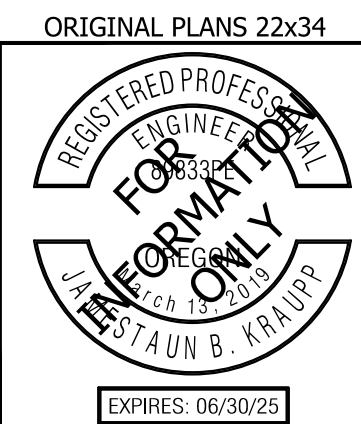
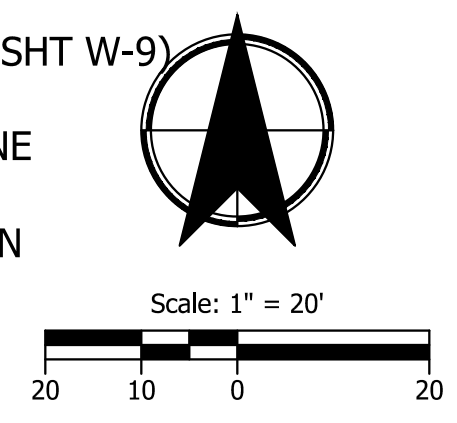


**CONSTRUCTION NOTES**

- 1 PROTECT AND MAINTAIN EXTG 8" CITY WATERLINE.
- 2 PROTECT AND MAINTAIN EXTG HYDRANT
- 3 ABANDON EXTG 4" CITY WATER LINE IN PLACE REMOVE EXTG VALVES PRIOR TO ABANDONMENT CONTRACTOR TO SWITCH SERVICES TO EXTG 10" LINE PRIOR TO ABANDONMENT CAP ENDS
- 4 ADJUST EXTG WATER METER AND SERVICE. TO FINISH GRADE (12 EA.) REMOVE EXTG METER BOX AND LID INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHT W-9) (DEPENDENT ON SERVICE SIZE)
- 5 PROTECT AND MAINTAIN EXTG CITY 10-INCH DIP WATERLINE
- 6 PROTECT AND MAINTAIN EXTG CITY 6-INCH DIP WATERLINE
- 7 EXTEND EXTG SERVICE LINE (7 EA.) CONNECT TO EXTG 10" WATER MAIN INSTALL CORPORATION STOP CONTRACTOR TO FIELD VERIFY SERVICE LINE SEE COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHT W-9)
- 8 CUT EXTG SERVICE LINE (6 EA.) CONNECT TO EXTG 10" WATER MAIN INSTALL CORPORATION STOP (8 EA.) CONTRACTOR TO FIELD VERIFY SERVICE LINE SEE COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE)
- 9 ADJUST EXTG VALVE TO FINISH GRADE (5 EA.)
- 10 INSTALL 8 LF OF 6" DUCTILE IRON, CLASS 52 PIPE
- 11 RELOCATE EXTG HYDRANT VALVE (1 EA.) RECONNECT TO EXTG HYDRANT ASSEMBLY PER COM DRAWING NO. 406 (SEE SHT W-9)
- 12 ADJUST EXTG SERVICE WATER LINE DUE TO PROPOSED STORM WATER CONFLICT MAINTAIN MINIMUM 36" OF COVER SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 13 PROTECT AND MAINTAIN EXTG SERVICE. REMOVE EXTG METER BOX AND LID. INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHT W-9)
- 14 PROTECT AND MAINTAIN SERVICE LINE SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 15 REMOVE AND EXTG HYDRANT REMOVE AND EXTG GATE VALVE
- 16 (STA:1024+88.42, 31.05'LT) INSTALL NEW HYDRANT AND VALVE ASSEMBLY PER COM DRAWING NO. 406 (SHEET W-11)



CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION



**CITY OF MILWAUKIE**

**KITTELSON & ASSOCIATES**

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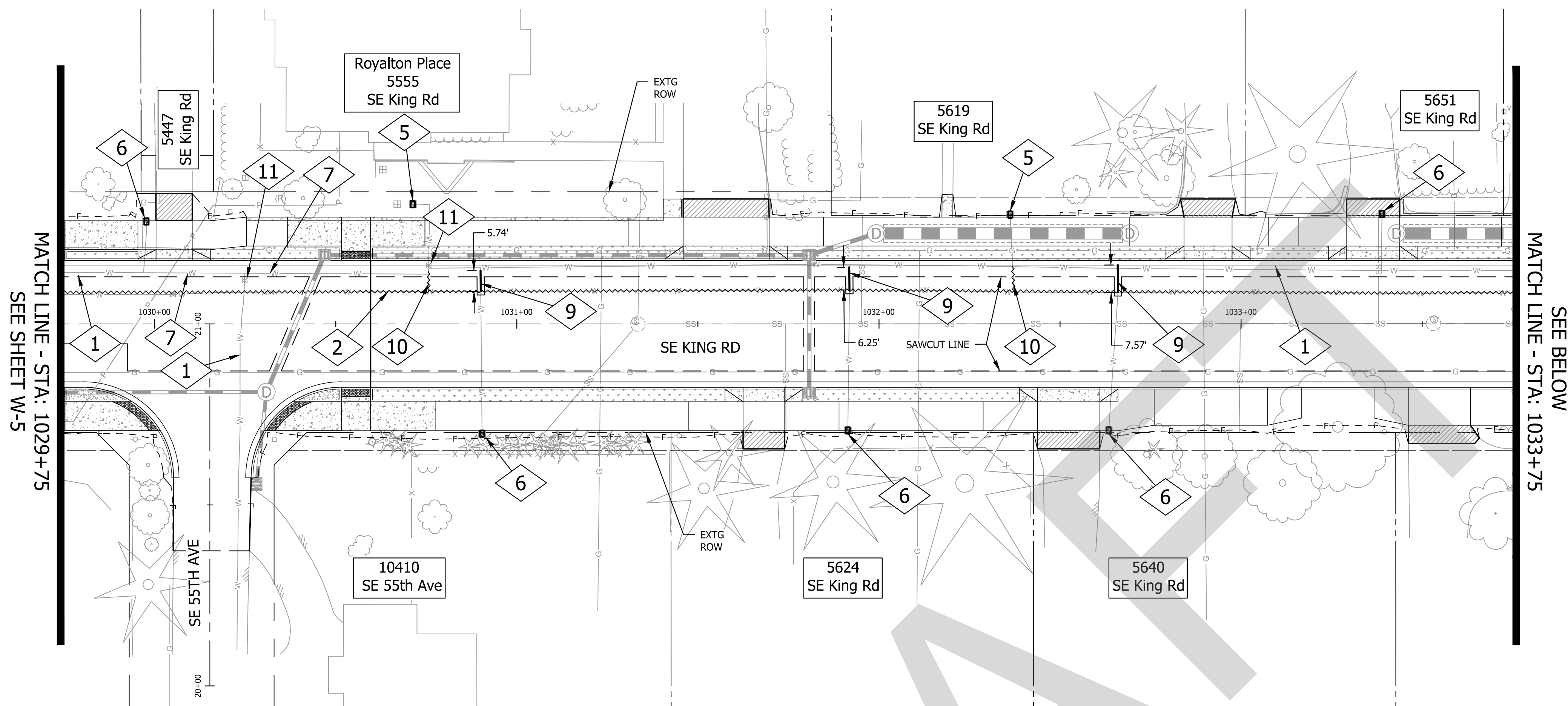
PROJECT NO.  
**C2023-032**

**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

WATER PLANS

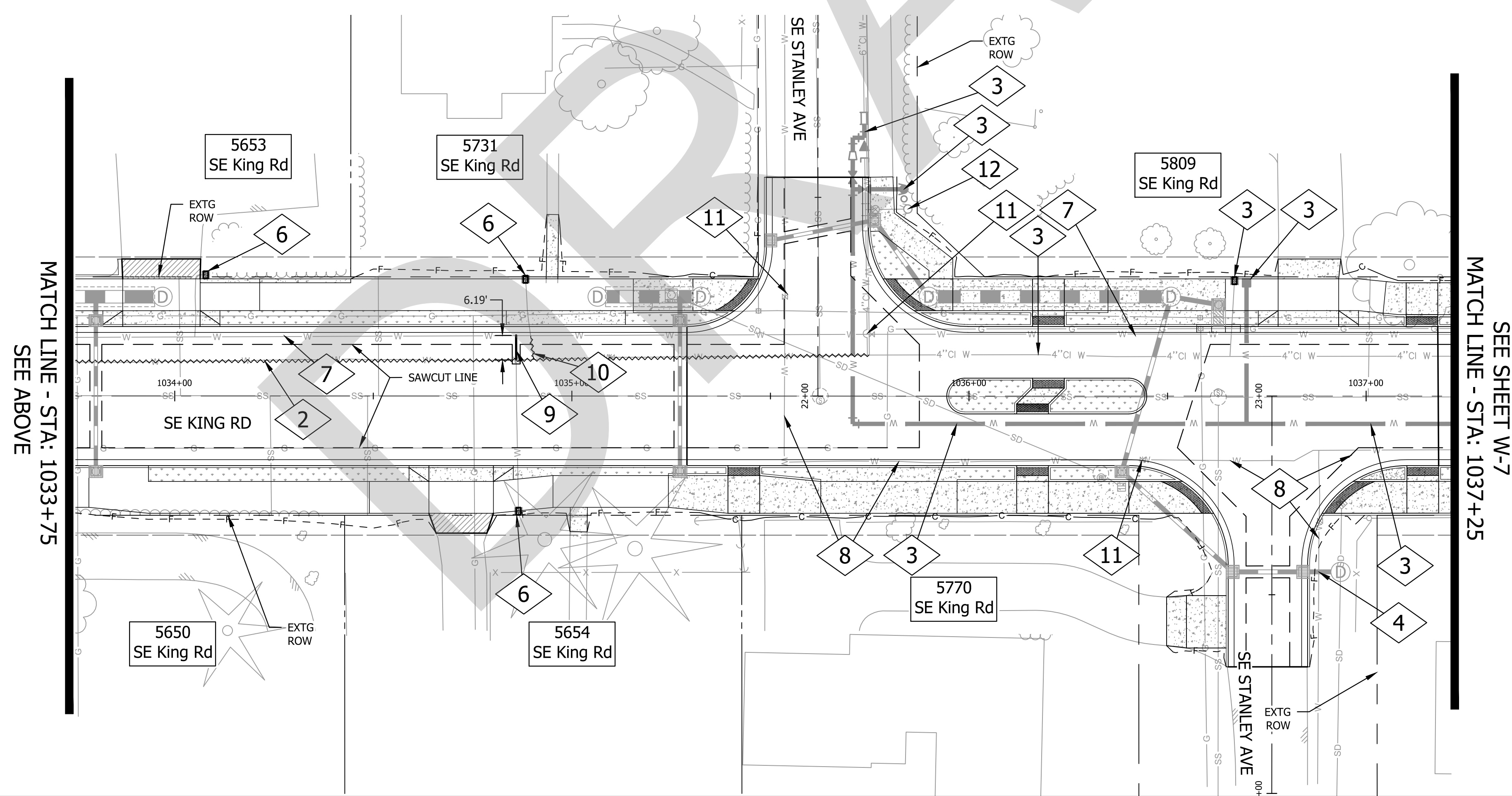
SHEET NO.  
**W-5**

Plot Stamp: 11/11/2024 3:16:11 PM - Allison Winter  
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MATCH LINE - STA: 1029+75  
 SEE SHEET W-5

MATCH LINE - STA: 1033+75  
 SEE BELOW



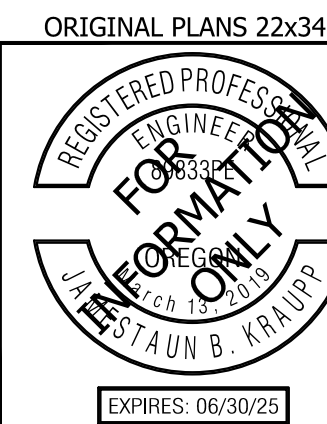
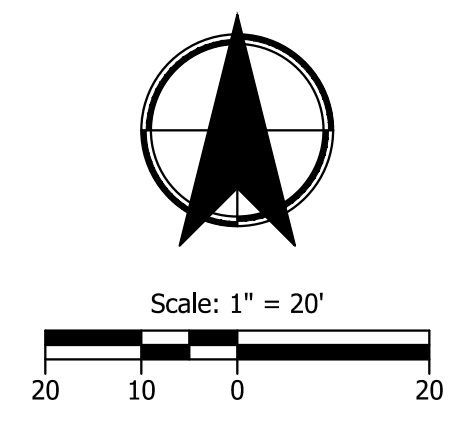
MATCH LINE - STA: 1033+75  
 SEE ABOVE

MATCH LINE - STA: 1037+25  
 SEE SHEET W-7

CONSTRUCTION NOTES

- 1 PROTECT AND MAINTAIN EXTG CITY 8" DIP WATER MAIN
- 2 ABANDON EXTG 4" CITY WATER LINE IN PLACE REMOVE EXTG VALVES PRIOR TO ABANDONMENT CONTRACTOR TO SWITCH SERVICES TO EXTG 10" LINE PRIOR TO ABANDONMENT CAP ENDS
- 3 SEE CLACKAMAS RIVER WATER PLANS
- 4 PROTECT AND MAINTAIN SERVICE LINE SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 5 PROTECT AND MAINTAIN EXTG SERVICE. (2 EA.) REMOVE EXTG METER BOX AND LID. INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHEET W-9)
- 6 ADJUST EXTG WATER METER AND SERVICE TO FINISH GRADE (9 EA.) REMOVE EXTG METER BOX AND LID INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHT W-9)
- 7 PROTECT AND MAINTAIN EXTG CITY 10" DIP WATER MAIN
- 8 PROTECT AND MAINTAIN EXTG CITY 6" DIP WATER MAIN
- 9 EXTEND EXTG SERVICE LINE (4 EA.) CONNECT TO EXTG 10" WATER MAIN INSTALL CORPORATION STOP CONTRACTOR TO FIELD VERIFY SERVICE LINE SEE COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHEET W-9)
- 10 CUT EXTG SERVICE LINE (3 EA.) CONNECT TO EXTG 10" WATER MAIN INSTALL CORPORATION STOP CONTRACTOR TO FIELD VERIFY SERVICE LINE SEE COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE)
- 11 ADJUST EXTG VALVE TO FINISH GRADE (5 EA.)
- 12 MOVE 4 INCH WATER LINE TO ACCOMMODATE CONSTRUCTION OF CATCH BASIN.

CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION



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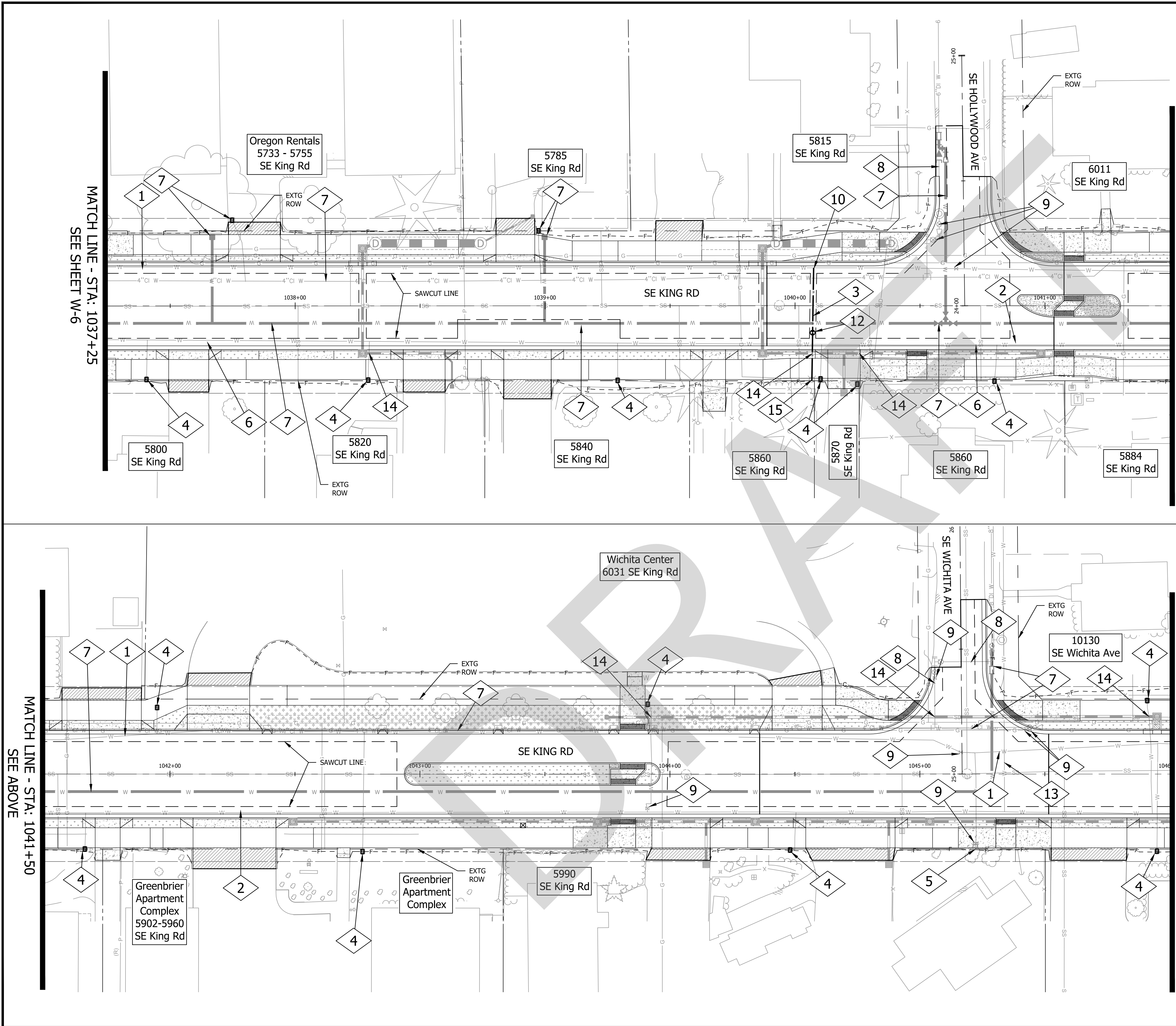
**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

WATER PLANS

SHEET NO.  
**W-6**



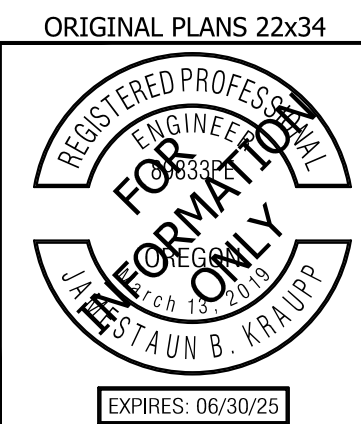
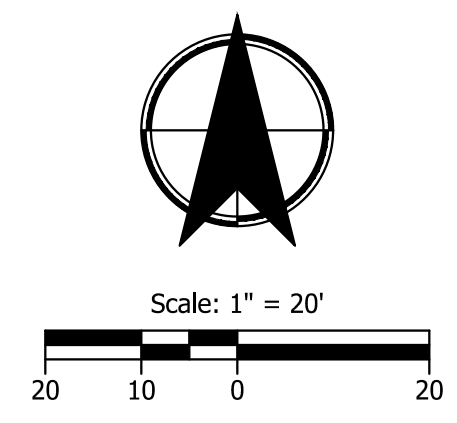
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CONSTRUCTION NOTES

- 1 PROTECT AND MAINTAIN EXTG CITY 10" DIP WATER MAIN
- 2 PROTECT AND MAINTAIN EXTG CITY 6" DIP WATER MAIN
- 3 INSTALL 45 LF OF 6" DUCTILE IRON, CLASS 52 PIPE
- 4 ADJUST EXTG WATER METER AND SERVICE TO FINISH GRADE (14 EA.) REMOVE EXTG METER BOX AND LID INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (SEE SHT W-9) (DEPENDENT ON SERVICE SIZE)
- 5 PROTECT AND MAINTAIN EXTG FIRE HYDRANT
- 6 PROTECT AND MAINTAIN EXTG CITY 8" DIP WATER MAIN
- 7 SEE CLACKAMAS RIVER WATER PLANS
- 8 PROTECT AND MAINTAIN EXTG CRW 6" DIP WATER MAIN
- 9 ADJUST EXTG VALVE TO FINISH GRADE (6 EA.)
- 10 (STA:1040+07.44, 15.0'LT) HOT TAP TO EXTG 10-INCH WATERLINE SEE COM DRAWING NO. 404
- 11 PROTECT AND MAINTAIN EXTG SERVICE. REMOVE EXTG METER BOX AND LID. INSTALL NEW METER BOX AND LID PER COM DRAWING NO. 401 OR 402 (DEPENDENT ON SERVICE SIZE) (SEE SHEET W-9)
- 12 (STA:1040+07.04, 10.76'RT) INSTALL 6-INCH GATE VALVE (1 EA.) SEE COM DRAWING NO. 406 (SEE SHEET W-9)
- 13 PROTECT AND MAINTAIN EXTG CITY 1 1/4" GP WATER MAIN
- 14 PROTECT AND MAINTAIN SERVICE LINE SEE STORM WATER PLANS FOR UTILITY CROSSING INFORMATION
- 15 RECONNECT EXISTING HYDRANT

CONTRACTOR TO VERIFY UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER 2 WEEKS PRIOR TO CONSTRUCTION



CITY OF MILWAUKIE

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**KING ROAD IMPROVEMENTS**  
 SE 43RD AVE TO SE LINWOOD AVE

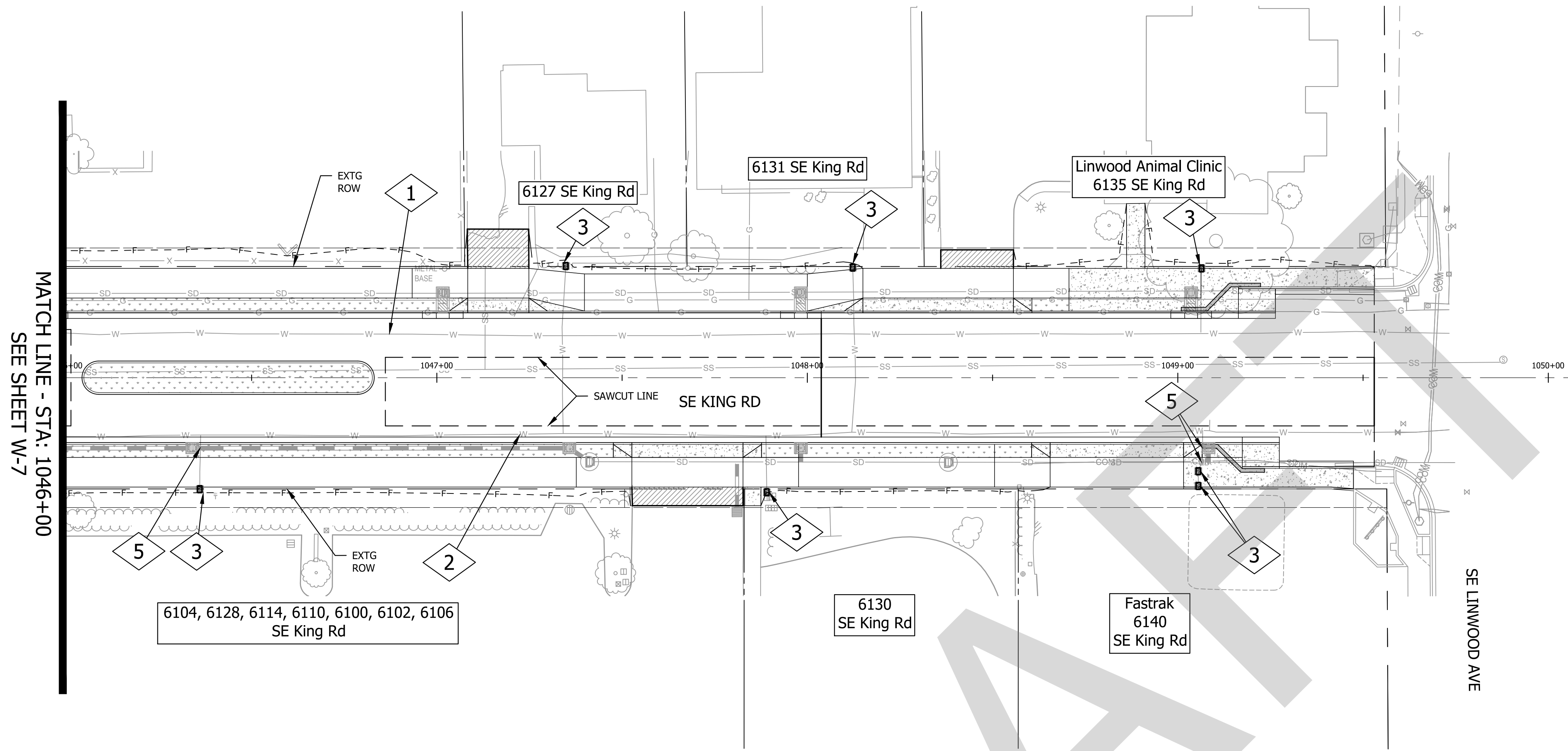
WATER PLANS

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SHEET NO.  
**W-7**

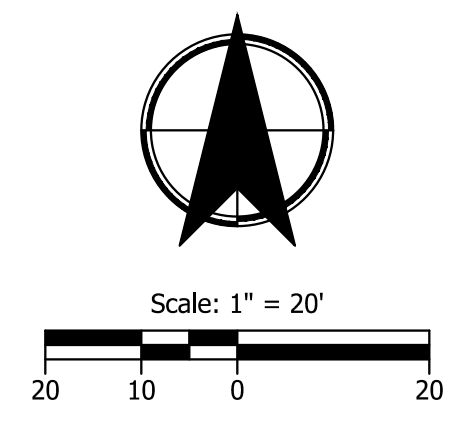
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**CONSTRUCTION NOTES**

- 1 PROTECT AND MAINTAIN  
EXTG CITY 10" DIP WATER MAIN
- 2 PROTECT AND MAINTAIN  
EXTG CITY 6" DIP WATER MAIN
- 3 ADJUST EXTG WATER METER AND SERVICE  
TO FINISH GRADE (7 EA.)  
REMOVE EXTG METER BOX AND LID  
INSTALL NEW METER BOX AND LID  
PER COM DRAWING NO. 401 OR 402 (SEE SHT W-9)  
(DEPENDENT ON SERVICE SIZE)
- 4 PROTECT AND MAINTAIN SERVICE LINE  
SEE STORM WATER PLANS  
FOR UTILITY CROSSING INFORMATION
- 5 ADJUST EXTG SERVICE WATER LINE (2 EA.)  
DUE TO PROPOSED STORM WATER CONFLICT  
MAINTAIN MINIMUM 36" OF COVER  
SEE STORM WATER PLANS  
FOR UTILITY CROSSING INFORMATION

DRAFT



CONTRACTOR TO VERIFY UTILITY  
CROSSINGS PRIOR TO CONSTRUCTION  
AND NOTIFY ENGINEER 2 WEEKS  
PRIOR TO CONSTRUCTION



CITY OF MILWAUKIE

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PROJECT NO.  
**C2023-032**

WATER PLANS

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**KING ROAD IMPROVEMENTS**  
SE 43RD AVE TO SE LINWOOD AVE

SHEET NO.  
**W-8**

# CLACKAMAS RIVER WATER KING RD IMPROVEMENTS PROJECT No. CIP 24-5302

CLACKAMAS COUNTY, OREGON

SEPTEMBER 2024

## GENERAL CONSTRUCTION NOTES

- NOTICE OF WORK:** THE CONTRACTOR SHALL FOLLOW THE CLACKAMAS RIVER WATER (CRW) AND OTHER AFFECTED JURISDICTIONS' ADVANCE NOTIFICATION REQUIREMENTS PRIOR TO CONSTRUCTION START.
- CONSTRUCTION STANDARDS AND SPECIFICATIONS:** ALL CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE MOST RECENT VERSION OF CLACKAMAS RIVER WATER STANDARD SPECIFICATIONS, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, CLACKAMAS COUNTY WATER ENVIRONMENTAL SERVICES (WES) STANDARDS (INCLUDING EROSION PREVENTION AND SEDIMENT CONTROL) AND THE OREGON ADMINISTRATIVE RULES (OAR), CHAPTER 333, UNLESS NOTED ON THE PLANS OR SPECIFIED OTHERWISE.
- CONSTRUCTION PLANS:** THE CONTRACTOR AND/OR SUB-CONTRACTOR SHALL HAVE AT LEAST ONE SET OF DISTRICT-APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES.
- INSURANCE:** A COPY OF THE CONTRACTOR'S CERTIFICATE OF INSURANCE SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- CONSTRUCTION STAKING:** THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING, INCLUDING WATERLINE ALIGNMENT STAKING AND OFFSETS, EASEMENTS AND PROPERTY LINES, UTILIZING DESIGN SURVEY INFORMATION AS PROVIDED BY CRW.
- PERMITS:** THE CONTRACTOR SHALL OBTAIN AND PAY ALL REQUIRED FEES, BONDS AND WARRANTIES FOR THE REQUIRED JURISDICTIONS' UTILITY PLACEMENT AND/OR STREET OPENING PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL OTHER PERMITS REQUIRED FOR CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL STIPULATED PERMIT CONDITIONS.
- EROSION CONTROL:** EFFECTIVE EROSION CONTROL, DUST CONTROL, AND DRAINAGE CONTROL IS REQUIRED AND SHALL BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH THE PERMITTING JURISDICTIONS' EROSION CONTROL REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTION OF ALL WORK AREAS, AND ANY ADJACENT AND DOWNSTREAM PROPERTIES FROM EROSION AND RUNOFF DURING THE COURSE OF THE WORK. ANY DAMAGE RESULTING FROM SUCH EROSION OR RUNOFF SHALL BE CORRECTED AT THE CONTRACTOR'S SOLE EXPENSE. THE ABSENCE OF IDENTIFIED EROSION CONTROL PLACEMENT LOCATIONS ON THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM SUPPLYING PROPER EROSION CONTROL MEASURES WHICH MEET SPECIFIED REQUIREMENTS.
- TRAFFIC CONTROL:** THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEETING THE REQUIREMENTS OF THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK, 2011, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED AND APPROVED BY THE PERMITTING JURISDICTION PRIOR TO COMMENCEMENT OF WORK.
- MATERIAL SUBMITTALS:** THE CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL MATERIALS TO BE INCORPORATED INTO THE WORK. ALL MATERIAL SUBMITTALS SHALL INCLUDE PROOF OF MATERIALS TESTING IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. ANY MATERIAL NOT IN CONFORMANCE WITH APPROVED SUBMITTALS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
- UTILITY LOCATIONS:** LOCATIONS AND GRADES OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND SHALL BE CONSIDERED APPROXIMATE ONLY AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER, AS SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. THE CONTRACTOR SHALL HAVE UTILITIES LOCATED IN ACCORDANCE WITH ORS 757.541 THROUGH 757.571 PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL ALSO FIELD VERIFY DEPTHS OF EXISTING UTILITIES TO IDENTIFY POTENTIAL CONFLICTS, AND AS MAY BE REQUIRED FOR CONNECTIONS TO EXISTING SYSTEMS.
- UTILITY POTHOLES:** THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION, DEPTH, TYPE, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF NEW WATERLINE AND SERVICE PIPE. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT LEAST 200 FEET AHEAD OF LAYING PIPE AT ALL CROSSINGS TO ALLOW REQUIRED ELEVATION ADJUSTMENTS TO BE ACCOMPLISHED WITHOUT ADDITIONAL BENDS, FITTINGS OR OTHER WORK. ELEVATION ADJUSTMENTS MAY BE REQUIRED AND ARE INCIDENTAL TO THE WORK. DEFLECT PIPE AS REQUIRED TO AVOID EXISTING UTILITIES AND TO COMPLETE TIE-INS (ALLOWABLE DEFLECTION IS 50% OF MANUFACTURER RECOMMENDED MAXIMUM). IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A PLAN DETAILING THE INVESTIGATIVE POTHOLES TO BE COMPLETED PRIOR TO BEGINNING THE WORK. POTHOLES PLAN SHALL INDICATE THE LOCATION AND NUMBER OF POTHOLES AND THE EQUIPMENT USED TO POTHOLE.
- UTILITY DISTURBANCE AND REPAIR:** IF THE CONTRACTOR DAMAGES, DESTROYS, OR OTHERWISE DISTURBS AN EXISTING UTILITY, THE UTILITY OWNER SHALL BE IMMEDIATELY CONTACTED, AND THE UTILITY SHALL BE REPAIRED WITHOUT DELAY OR COST TO THE DISTRICT.
- UTILITIES ABANDONED IN PLACE:** UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL SEAL AND CAP THE REMAINING EXPOSED ABANDONED UTILITIES WITH NON-SHRINK GROUT TO 1 FOOT LENGTH INTO PIPE, OR AS OTHERWISE SPECIFIED.
- PERFORMANCE OF THE WORK:** THE CONTRACTOR SHALL PERFORM ALL THE WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL WORK CONSIDERED NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER, USING EQUIPMENT, TOOLS AND METHODS THAT FOLLOW GENERALLY ACCEPTED INDUSTRY AND TRADE PRACTICES FOR THE REQUIRED WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
- CONSTRUCTION SEQUENCING:** THE CONTRACTOR SHALL PLAN AND SEQUENCE THE WORK AS REQUIRED TO MINIMIZE DISRUPTION OF SERVICE, INCLUDING TEMPORARY CONNECTIONS AND BYPASSES AS NECESSARY.

## GENERAL CONSTRUCTION NOTES (cont.)

- SYSTEM CONNECTION:** CONNECTIONS TO EXISTING WATERLINES SHALL NOT BE MADE UNTIL ALL REQUIRED INSPECTIONS AND TESTS HAVE BEEN COMPLETED ON THE NEW WORK AND IT IS FOUND TO CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- CHANGES OR DEVIATIONS TO WORK:** ANY CHANGE OR DEVIATION FROM THE APPROVED CONSTRUCTION PLANS MUST BE SUBMITTED IN WRITING AND APPROVED BY CRW A MINIMUM OF FOUR (4) WORKING DAYS PRIOR TO STARTING THE MODIFIED WORK.
- FIELD PLACEMENT OF SYSTEM COMPONENTS:** FINAL LOCATIONS OF ALL VALVES AND VALVE BOXES, FIRE HYDRANTS, AIR RELEASE ASSEMBLIES, AND SERVICE CONNECTION CORPORATION STOPS MAY VARY FROM LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE FIELD ADJUSTED LOCATIONS OF THESE AND SIMILAR ITEMS WITH THE DISTRICT.
- AS-BUILT DRAWINGS:** THE CONTRACTOR SHALL SUBMIT COMPLETE "AS-BUILT" DRAWINGS AFTER FINAL COMPLETION INDICATING ALL CHANGES IN GRADE, ALIGNMENT, FITTINGS, AND MATERIALS INSTALLED AND ANY OTHER UTILITIES OR OBSTACLES NOT SO INDICATED ON THE APPROVED CONSTRUCTION PLANS.
- MAINTENANCE OF WORK AREA:** MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE FROM OBSTRUCTIONS AND HAZARDS AS REQUIRED BY THE LOCAL JURISDICTIONAL STANDARDS.
- SITE RESTORATION AT END OF WORKDAY:** AT THE END OF EACH WORKDAY ALL TRENCHES SHALL BE BACKFILLED, AND ALL TRENCHES WITHIN STREETS SHALL BE TEMPORARILY RESTORED TO THE SATISFACTION OF THE DISTRICT AND LOCAL JURISDICTION. USE OF STEEL SHEETS FOR TEMPORARY RESTORATION SHALL BE ONLY AS ALLOWED BY APPLICABLE PERMITS. PERMANENT AC PAVEMENT SHALL BE HOT MIX BITUMINOUS ASPHALT, UNLESS OTHERWISE SPECIFIED. TEMPORARY AC PAVEMENT MAY BE HMAC OR COLD MIX ASPHALT, "EASY STREET" OR EQUAL. NO TRENCH, ON-SITE OR OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR ANY HAZARDS OR DAMAGE RESULTING FROM HIS PROSECUTION OF THE WORK.
- ACCESS TO DRIVEWAYS:** THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS. IF A DRIVEWAY MUST BE BLOCKED TEMPORARILY, THE CONTRACTOR SHALL GIVE THE PROPERTY OWNER AND/OR BUILDING TENANT 24 HOURS' NOTICE AND SHALL ENSURE ACCESS TO DRIVEWAYS AT THE END OF EACH WORKDAY.
- PROTECTION OF PROPERTY:** THE CONTRACTOR SHALL EXERCISE ALL DUE CARE IN PROTECTING PROPERTY WITHIN AND ADJACENT TO THE JOB SITE. THIS PROTECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, TREES, YARDS, FENCES, DRAINAGE LINES, MAILBOXES, DRIVEWAYS, SHRUBS, LAWNS, AND IRRIGATION SYSTEMS WITHIN ANY RIGHTS-OF-WAY OR EASEMENTS. IF ANY PROPERTY DISTURBANCE OCCURS, THE CONTRACTOR SHALL RESTORE TO AS NEAR ORIGINAL CONDITION AS POSSIBLE OR REPLACE IN KIND.
- SURVEY MONUMENTS:** ALL SURVEY MONUMENTS SHALL BE LOCATED AND PROTECTED, EXCEPT AS SPECIFICALLY DIRECTED BY THE COUNTY SURVEYOR OR LOCAL JURISDICTION'S ENGINEER.
- SITE RESTORATION AT PROJECT COMPLETION:** UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIALS.

## WATERLINE CONSTRUCTION NOTES

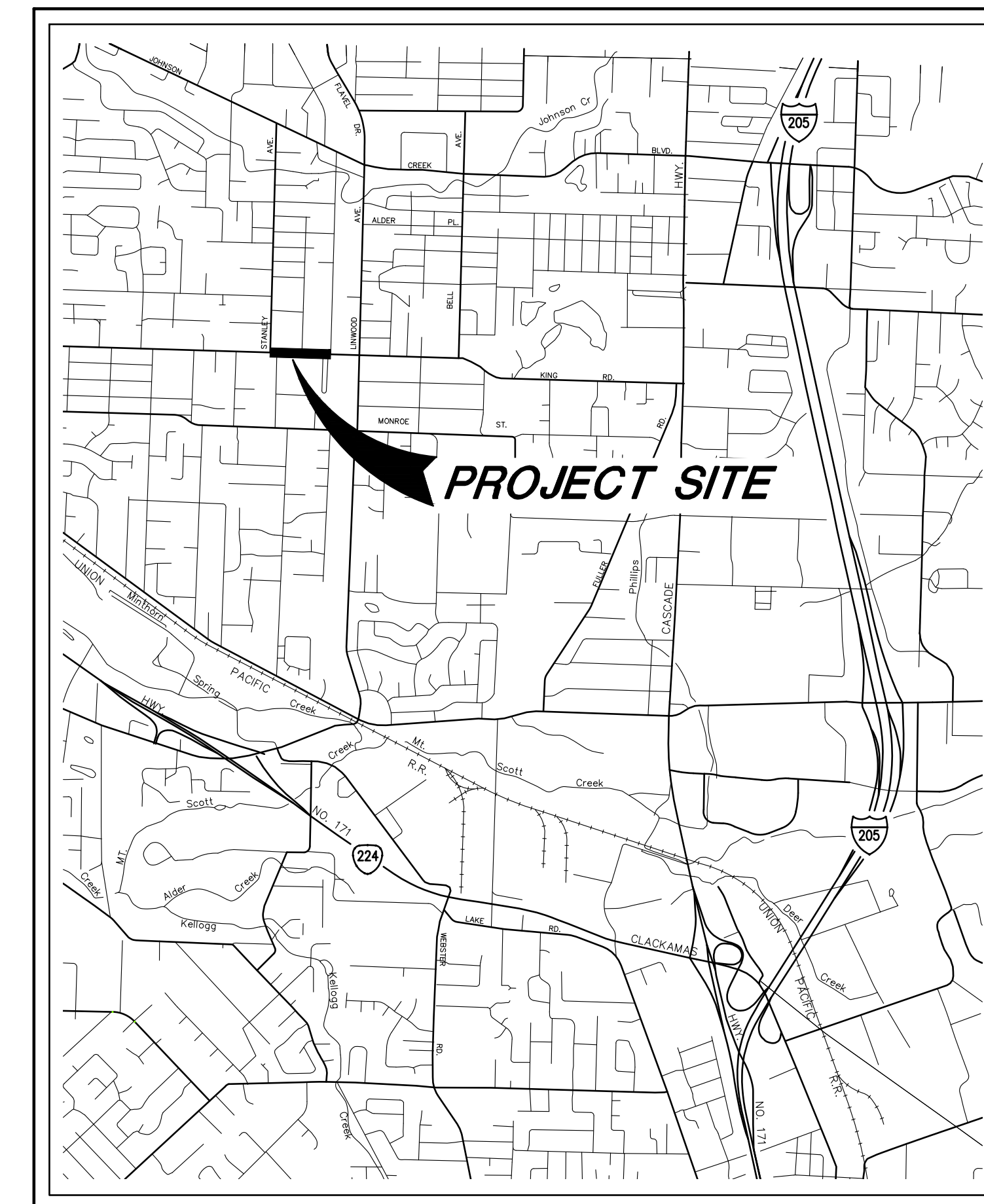
- CRW SPECIFICATIONS:** ALL WORK SHALL BE DONE IN ACCORDANCE WITH CLACKAMAS RIVER WATER STANDARD SPECIFICATIONS AND DETAILS, CURRENT REVISION.
- NOTICE OF SERVICE DISRUPTION:** UNLESS OTHERWISE DIRECTED, THE CONTRACTOR SHALL PROVIDE CRW AND ANY AFFECTED UTILITIES A MINIMUM OF FOUR (4) DAYS ADVANCE NOTICE OF CONSTRUCTION AND/OR PLANNED DISRUPTION OF SERVICE. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE SHUTDOWNS WITH ALL AFFECTED UTILITIES.
- NOTICE OF SERVICE DISRUPTION FOR CRW CUSTOMERS:** CRW WILL PROVIDE NOTIFICATION TO AFFECTED WATER USERS FOR PLANNED SERVICE DISRUPTIONS.
- OPERATION OF SYSTEM:** OPERATION OF VALVES AND ANY OTHER COMPONENTS OF THE PUBLIC WATER SYSTEM SHALL ONLY BE PERFORMED BY CRW.
- EXISTING WATER SERVICE:** EXISTING WATER MAINS AND SERVICES SHALL BE KEPT IN OPERATION UNTIL NEW MAINS ARE CONNECTED AND IN SERVICE.
- WATERLINE BURY DEPTH:** ALL PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM TOP OF PIPE TO EXISTING GRADE OR OTHER FINISHED GRADE, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- SANITARY SEWER CROSSINGS:** THE CONTRACTOR SHALL COMPLY WITH OAR CHAPTER 333 FOR REQUIRED WATERLINE-SANITARY SEWER LINE SEPARATION AND CROSSING REQUIREMENTS.
- UTILITY CROSSINGS:** AS MAY BE REQUIRED BY THE DISTRICT, THE CONTRACTOR SHALL PROVIDE PVC SHIELDING AND/OR POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA C105.
- WATERLINE PIPE:** ALL NEW PIPE SHALL BE CLASS 52 CEMENT-LINED DUCTILE IRON PIPE PER AWWA C151, OF NEW MANUFACTURE AND APPROVED BY THE DISTRICT. ALL PIPE SHALL BE PUSH-ON JOINT UNLESS OTHERWISE SPECIFIED.
- WATERLINE FITTINGS:** WATERLINE FITTINGS SHALL BE CEMENT-LINED DUCTILE OR CAST IRON WITH MECHANICAL JOINTS PER AWWA C110 OR C153.
- JOINT RESTRAINTS:** ALL JOINTS AT VALVES, FITTINGS AND PIPE BELLS SHALL BE MECHANICALLY RESTRAINED. SEE SPECIFICATIONS FOR ALLOWABLE TYPES OF RESTRAINT SYSTEMS.
- FLANGED CONNECTIONS:** ALL FLANGED CONNECTIONS, WHERE REQUIRED, SHALL BE PROVIDED WITH CUT-RING GASKETS, AS SPECIFIED.

## WATERLINE CONSTRUCTION NOTES (cont.)

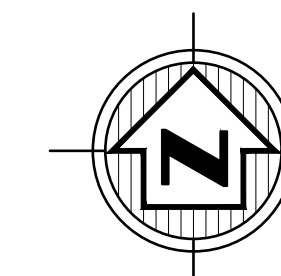
- THRUST BLOCKS:** THE USE OF CONCRETE THRUST BLOCKS IS ALLOWED ONLY AS SHOWN ON PLANS OR AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINT FOR FITTINGS AND/OR PIPING THAT WILL RECEIVE SERVICE PRESSURES BEFORE PERMANENT CONCRETE THRUST BLOCK DEVELOPS FULL STRENGTH. THE CONTRACTOR SHALL PLACE 5-MIL PLASTIC SHEETING BETWEEN THRUST BLOCK AND PIPE FITTINGS.
- CONCRETE STRENGTH:** ALL CONCRETE FOR THRUST BLOCKS SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE SPECIFIED.
- MATERIALS AND WORKMANSHIP:** ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CRW SPECIFICATIONS AS WELL AS OTHER GENERALLY ACCEPTED INDUSTRY STANDARDS- INCLUDING AWWA, THE UNIFORM PLUMBING CODE, AND OTHERS AS APPLICABLE. ALL MATERIALS SHALL BE OF NEW MANUFACTURE. NO REBUILT OR USED MATERIALS WILL BE ALLOWED.
- BACKFILL:** ALL BACKFILL IN THE RIGHT OF WAY OR OTHER TRAFFIC AREAS SHALL BE 3/4"-0" CRUSHED ROCK, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER AASHTO T-99 UNLESS OTHERWISE SPECIFIED.
- PRESSURE TESTING AND DISINFECTION PREPARATION:** WATERLINES AND APPURTENANCES SHALL BE PRESSURE TESTED AND DISINFECTED FOLLOWING COMPLETION OF ASSEMBLY AND BEFORE CONNECTION TO THE EXISTING SYSTEM AND SERVICES. PRIOR TO TESTING AND DISINFECTION, ALL LINES AND APPURTENANCES SHALL BE FLUSHED AS DIRECTED. THE CONTRACTOR SHALL INSTALL TEMPORARY BLOW-OFF ASSEMBLIES FOR TESTING AND DISINFECTION. PROVIDE TEMPORARY TAPS FOR TESTING AND CHLORINE INJECTION AS REQUIRED. PLUG TEMPORARY TAPS WITH BRASS PLUGS UPON ACCEPTANCE OF NEW WATERLINE.
- PRESSURE TESTING:** STANDARD TEST PRESSURE SHALL BE 1.5 TIMES THE SYSTEM OPERATING PRESSURE BUT IN NO CASE LESS THAN THE MINIMUM TEST PRESSURE OF 150 PSI; MEASURED AT THE HIGHEST ELEVATION OF THE PIPE BEING TESTED. ALLOWABLE LEAKAGE SHALL BE WITHIN WITH CRW SPECIFICATION WITH NO VISIBLE LEAKAGE ALLOWED.
- DISINFECTION:** DISINFECT IN CONFORMANCE WITH CRW REQUIREMENTS, AWWA C651, OREGON HEALTH AUTHORITY GUIDELINES AND THE REQUIREMENTS OF THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY. THE CONTRACTOR SHALL DISPOSE OF SUPERCHLORINATED WATER IN AN APPROVED MANNER AND LOCATION. DO NOT ALLOW DISINFECTION WATER TO FLOW INTO A WATERWAY WITHOUT ADEQUATE DILUTION OR OTHER SATISFACTORY METHODS OF REDUCING CHLORINE RESIDUALS TO A SAFE LEVEL AS MANDATED BY DEQ. THE CONTRACTOR SHALL NOTIFY LOCAL JURISDICTIONS AS NECESSARY.
- DISINFECTION OF SHORT PIPING SECTIONS AND CONNECTIONS:** CRW AND THE CONTRACTOR SHALL IDENTIFY ALL SHORT SECTIONS OF PIPE AND/OR FITTINGS THAT CONNECT TO THE EXISTING SYSTEM THAT REQUIRE MANUAL DISINFECTION. A 300 PPM CHLORINE SOLUTION SHALL BE APPLIED BY SPRAYING AND BRUSHING TO THE INTERIOR OF ALL PIPE, VALVES, AND FITTINGS AS DIRECTED. THE CHLORINE SOLUTION SHALL REMAIN FOR 15 MINUTES BEFORE FLUSHING, UNLESS OTHERWISE DIRECTED.
- BACTERIOLOGICAL SAMPLING AND TESTING:** POST-DISINFECTION SAMPLING AND BAC-T TESTING WILL BE CONDUCTED BY CRW. PASSING TESTS ARE REQUIRED FOR PROJECT ACCEPTANCE.
- PROTECTION OF POTABLE WATER PIPING:** THE CONTRACTOR SHALL PROTECT POTABLE WATER PIPE ENDS FROM CONTAMINATED WATER AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE WATERTIGHT CAPS OR PLUGS ON PIPE ENDS AT THE END OF EACH WORKDAY.
- TRACER WIRE:** INSTALL NO. 12 AWG SOLID COPPER TRACER WIRE WITH BLUE COLORED HMWPE INSULATION ALONG THE TOP CENTERLINE OF NEW PIPE. TRACER WIRE INTERSECTIONS SHALL BE SOLDERED OR MECHANICALLY CONNECTED WITH APPROVED WATERPROOF CONNECTOR DEVICES.

## SHEET INDEX

CRW0	TITLE SHEET
CRW1	PLAN AND PROFILE STA: 1033+75 TO STA: 1037+25
CRW2	PLAN AND PROFILE STA: 1037+25 TO STA: 1041+50
CRW3	PLAN AND PROFILE STA: 1041+50 TO STA: 1046+00
CRW4	CONNECTION DETAILS
CRW5	STANDARD DETAILS



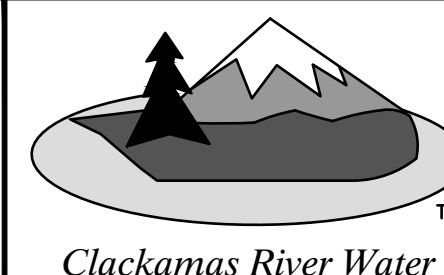
VICINITY MAP  
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ONE CALL: 1-800-332-2344

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 by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987.)

ATTENTION		
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9/11/24	REVIEW SET	CRW
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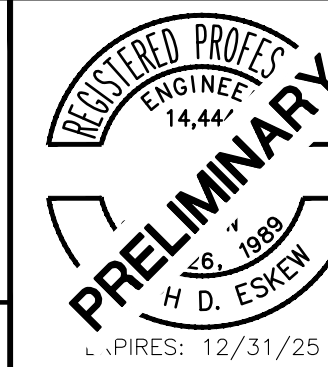
Clackamas River Water

16770 SE 82nd Drive P.O. Box 2439  
Clackamas, Oregon 97015 Clackamas, Oregon 97015  
(503) 722-9220 FAX (503) 656-7086

crw@crwater.com

APPROVED BY:

APPROVAL DATE:



DESIGNED BY:	JDE
DRAFTED BY:	MJG
CHECKED BY:	JDE
DATE:	SEPT 2024
SCALE:	AS SHOWN

PROJECT NAME:	KING RD IMPROVEMENTS
SHEET TITLE:	TITLE SHEET
PROJECT No.:	24-5302
FILE NAME:	24-5302_KINGRD_IMPROVEMENTS_COVER

KING RD IMPROVEMENTS

TITLE SHEET

CRWO

SHEET  
1 of 6

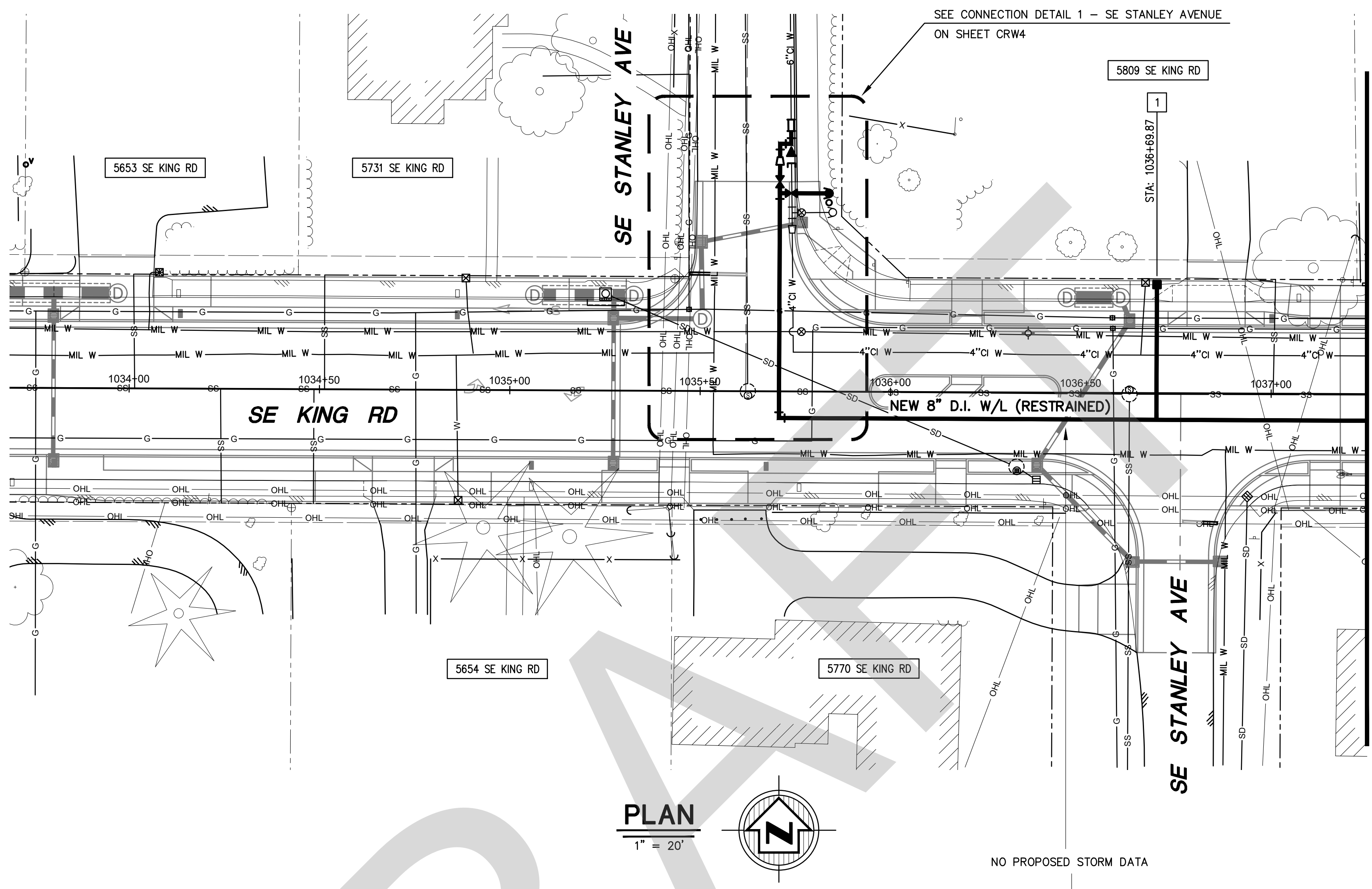
**LEGEND:**

- ▲ SURVEY CONTROL
  - SANITARY MANHOLE
  - STORM MANHOLE
  - APPROXIMATE MANHOLE SIZE/LOCATION
  - CATCH BASIN
  - CURB INLET
  - GAS VALVE
  - WATER VALVE
  - FIRE HYDRANT
  - WATER METER
  - AIR RELEASE VALVE
  - LIGHT POLE
  - UTILITY POLE
  - GUY ANCHOR
  - SIGN
  - BOLLARD
  - MAILBOX
  - HANDICAPPED PARKING
  - BIKE LANE
  - H.O.V. LANE
  - LINE CONTINUOUS
  - DECIDUOUS TREE
  - EVERGREEN TREE
  - SHRUB
  - STUMP
- 
- SS SS SANITARY LINE
  - SD SD STORM LINE
  - G G GAS LINE
  - OHL OHL OVER HEAD UTILITY LINE
  - P P POWER LINE
  - COM COM COMMUNICATION LINE
  - X X FENCE (AS NOTED)
  - RAMP
  - CULVERT PIPE
- 
- ▭ NEW REDUCER
  - ▭ NEW THRUST BLOCK
  - ⊗ NEW BLOW-OFF ASSEMBLY
  - ⊗ NEW WATER VALVE
  - ⊗ NEW FIRE HYDRANT
  - ▭ NEW LONG CAST SLEEVE
  - ▭ NEW FLGxMJ ADAPTER
  - NEW WATER METER
  - NEW COMBINATION AIR RELIEF VALVE
  - NEW TRACER WIRE TERMINAL STATION

- NEW WATERLINE
- X"XX W— EXISTING CLACKAMAS RIVER WATER WATERLINE
- /—/— EXISTING WATERLINE ABANDONED IN PLACE (VALVE BOXES REMOVED AND SURFACE RESTORED)
- MIL W— EXISTING CITY OF MILWAUKIE WATERLINE
- PROPOSED IMPROVEMENTS
- PROPOSED STORM

**WATERLINE CONSTRUCTION NOTES:**

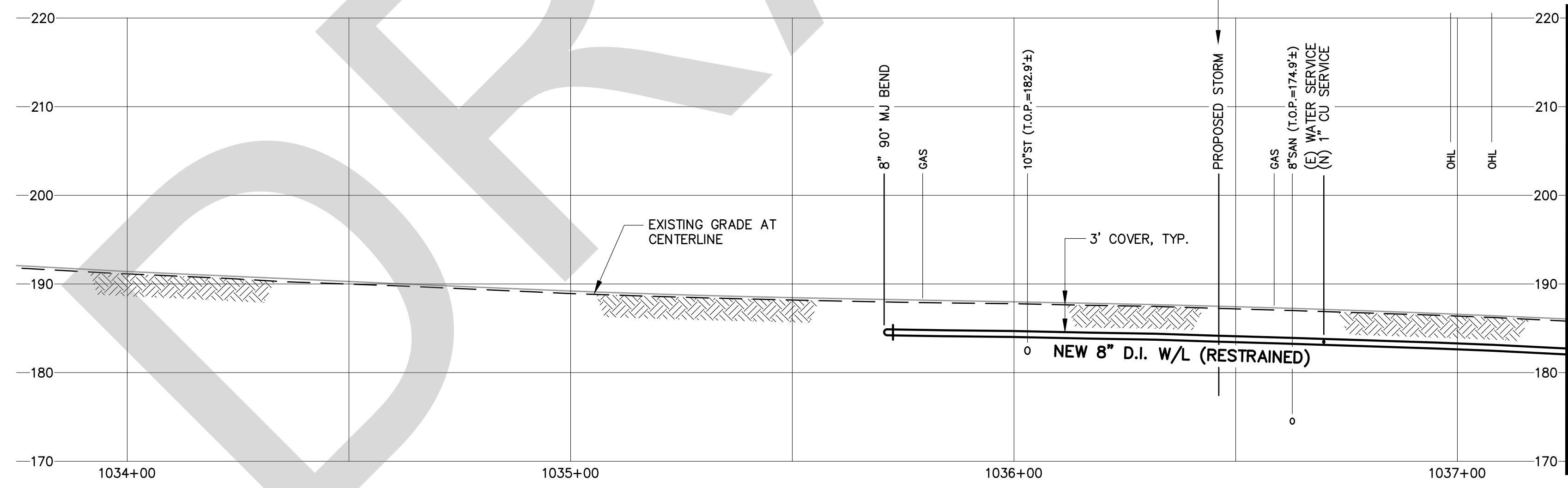
- 1 CONSTRUCT NEW WATER SERVICE AT BACK OF PATH PER CRW DETAIL 108A.



**PLAN**

1" = 20'

NO PROPOSED STORM DATA



**PROFILE**

1" = 10' VERT. 1" = 20' HORIZ.

**POTHOLES NOTE:**  
CONTRACTOR MUST POTHOLE ALL EXISTING UTILITIES TO VERIFY DEPTH PRIOR TO CONSTRUCTION. SPECIFIC LOCATIONS MAY HAVE BEEN POTHOLED AND UTILITY DEPTHS MEASURED OR CALCULATED AS SHOWN. OTHER UTILITY DEPTHS ARE UNKNOWN OR ASSUMED. FOR CLARITY, ONLY UTILITIES BEING CROSSED BY PROPOSED WATERLINE ARE SHOWN IN THE PROFILE.

MATCHLINE STA: 1037+25  
SEE SHEET CRW2

MATCHLINE STA: 1037+25  
SEE SHEET CRW2

No.	DATE	REVISION	BY

**ATTENTION**

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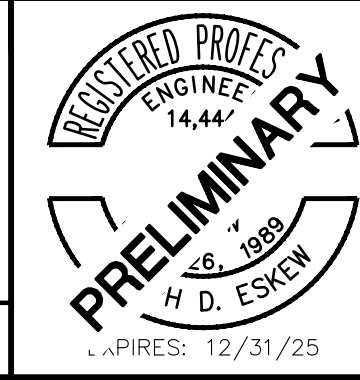
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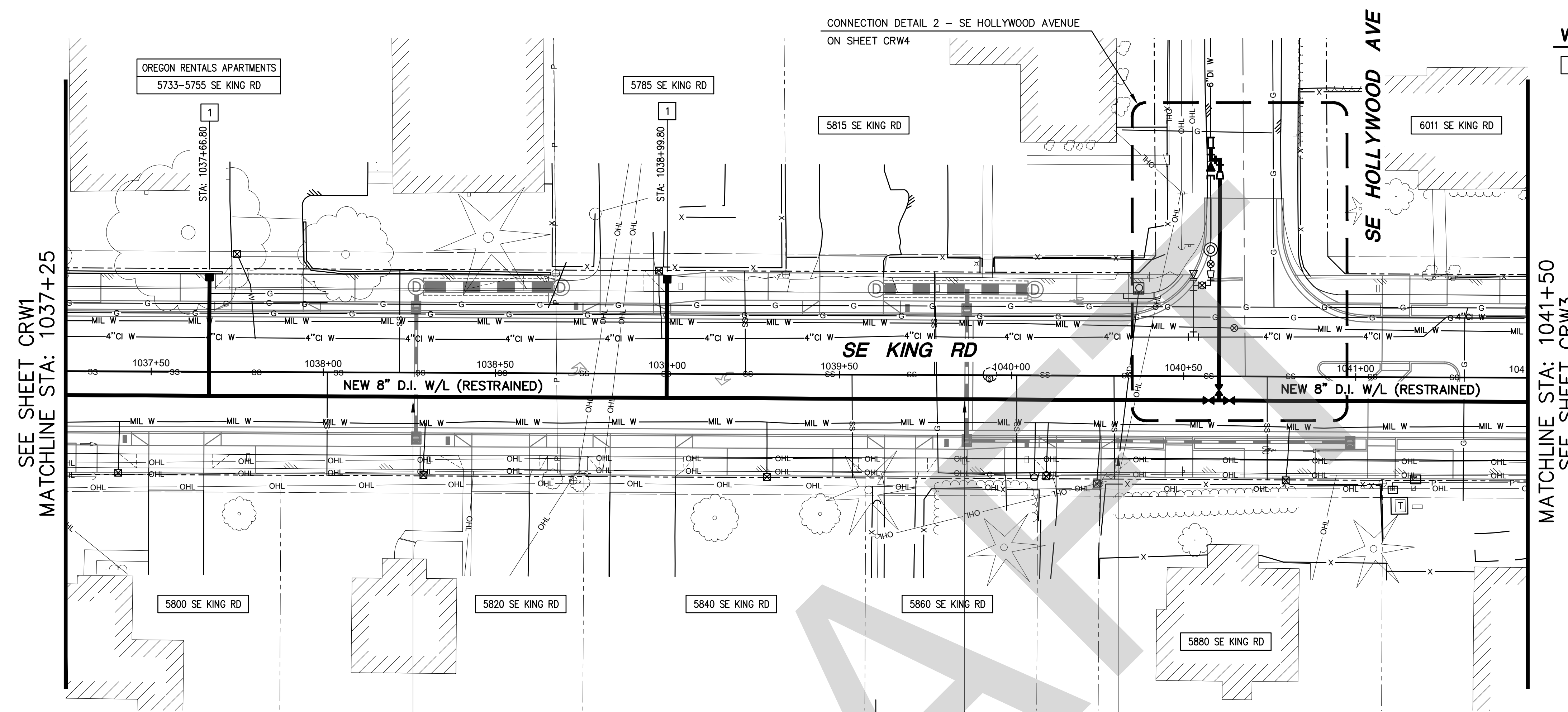
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STA: 1033+75 TO STA: 1037+25	
PROJECT No. 24-5302	FILE NAME: 24-5302_KINGRD_IMPROVEMENTS_DES1

**CRW1**

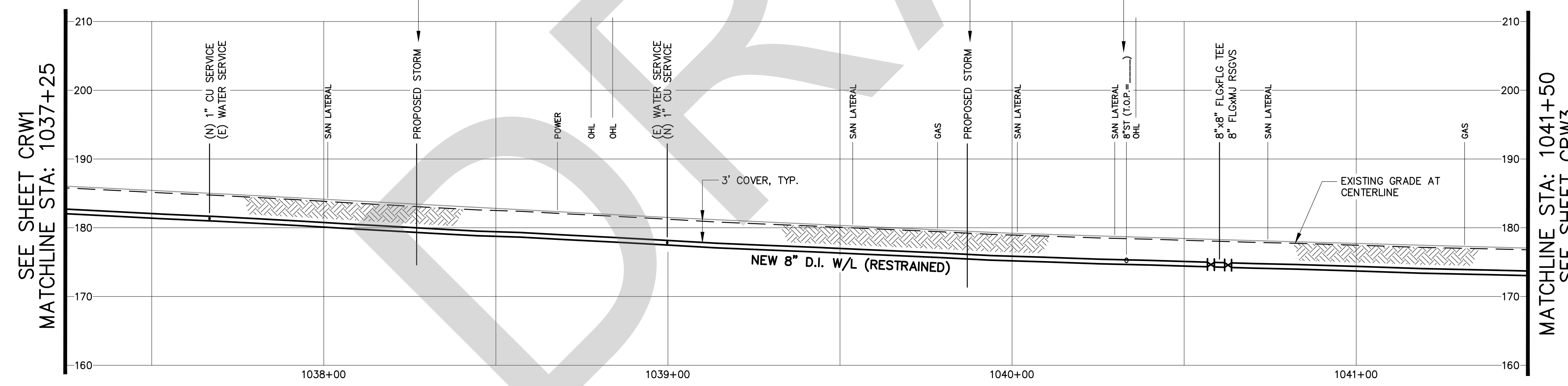
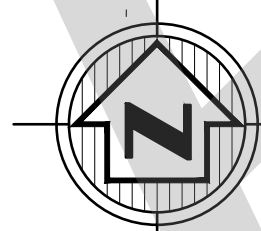
SHEET 2 of 6

**WATERLINE CONSTRUCTION NOTES**

1 CONSTRUCT NEW WATER SERVICE AT BACK OF PATH PER CRW DETAIL 108A.



**PLAN**  
1" = 20'



**PROFILE**  
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SEE SHEET CRW1  
MATCHLINE STA: 1037+25

MATCHLINE STA: 1041+50  
SEE SHEET CRW3

SEE SHEET CRW1  
MATCHLINE STA: 1037+25

MATCHLINE STA: 1041+50  
SEE SHEET CRW3

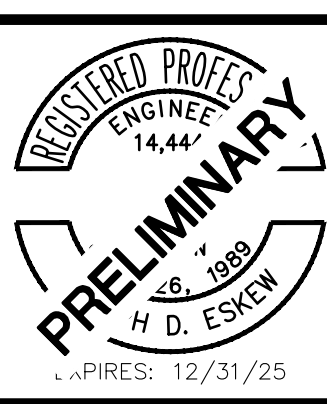
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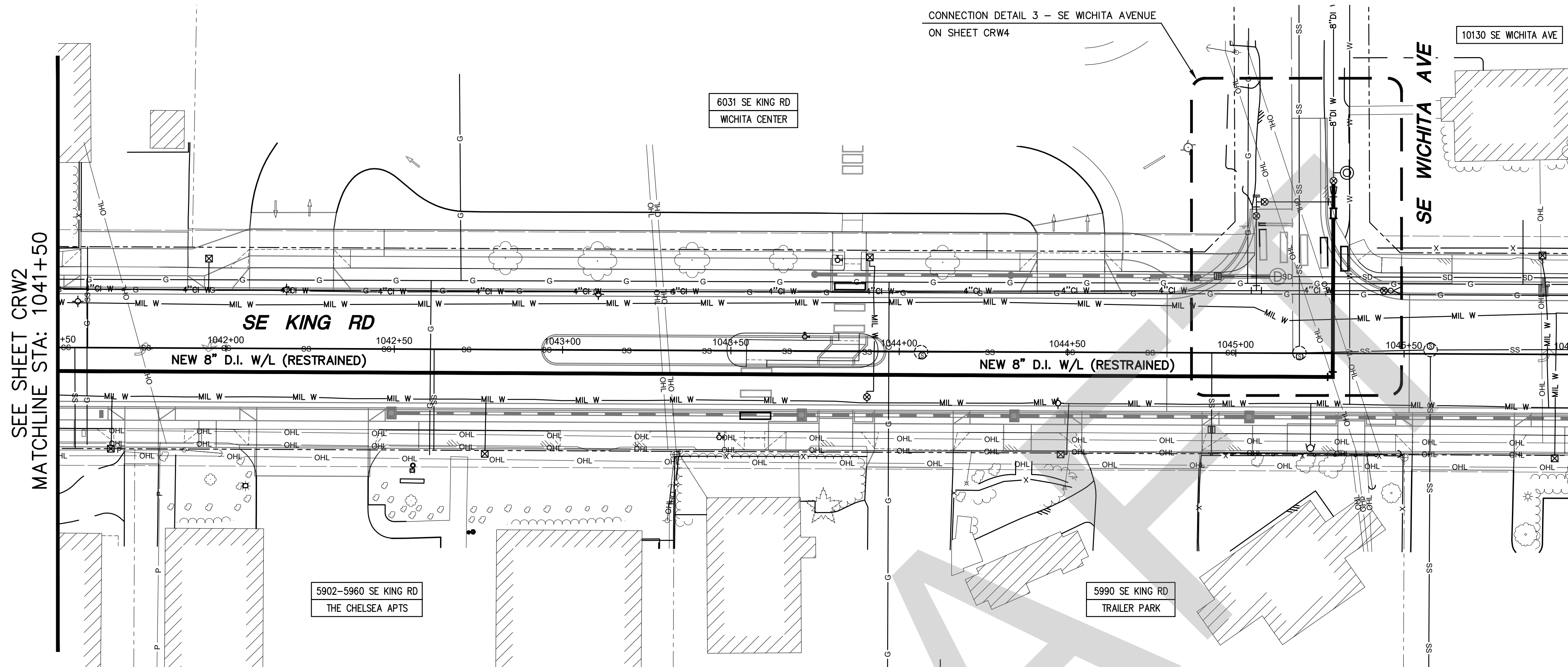
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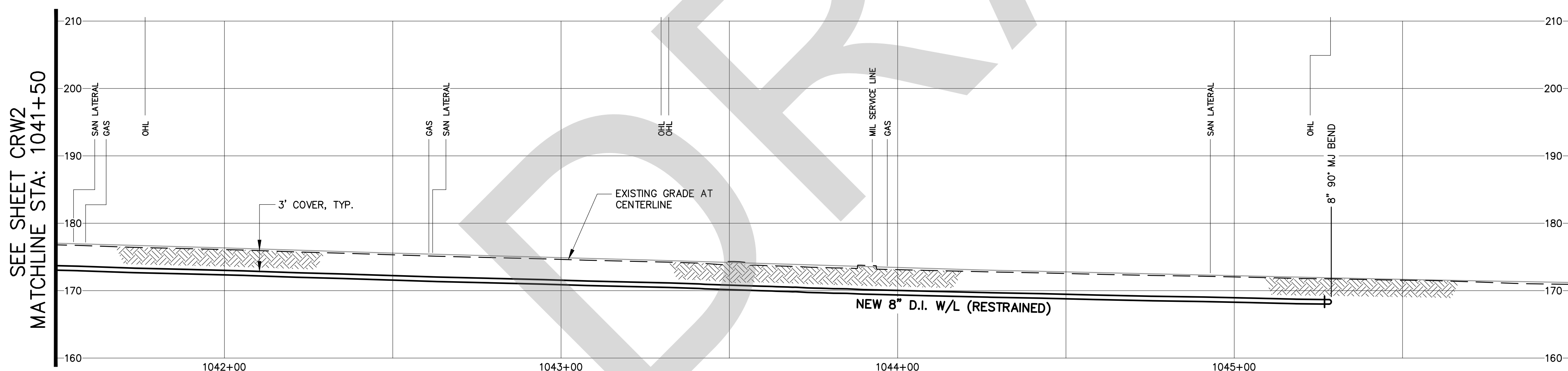
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DRAFTED BY: MJG	
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DATE: SEPT 2024	STA: 1037+25 TO STA: 1041+50
SCALE: AS SHOWN	PROJECT No: 24-5302
	FILE NAME: 24-5302_KINGRD_IMPROVEMENTS_DES1

**WATERLINE CONSTRUCTION NOTES**

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ATTENTION

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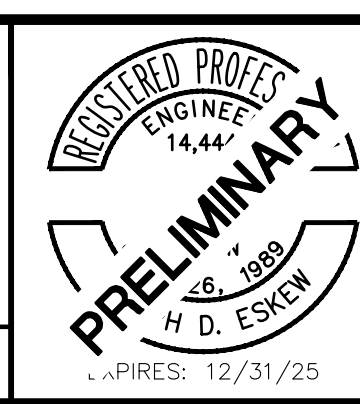
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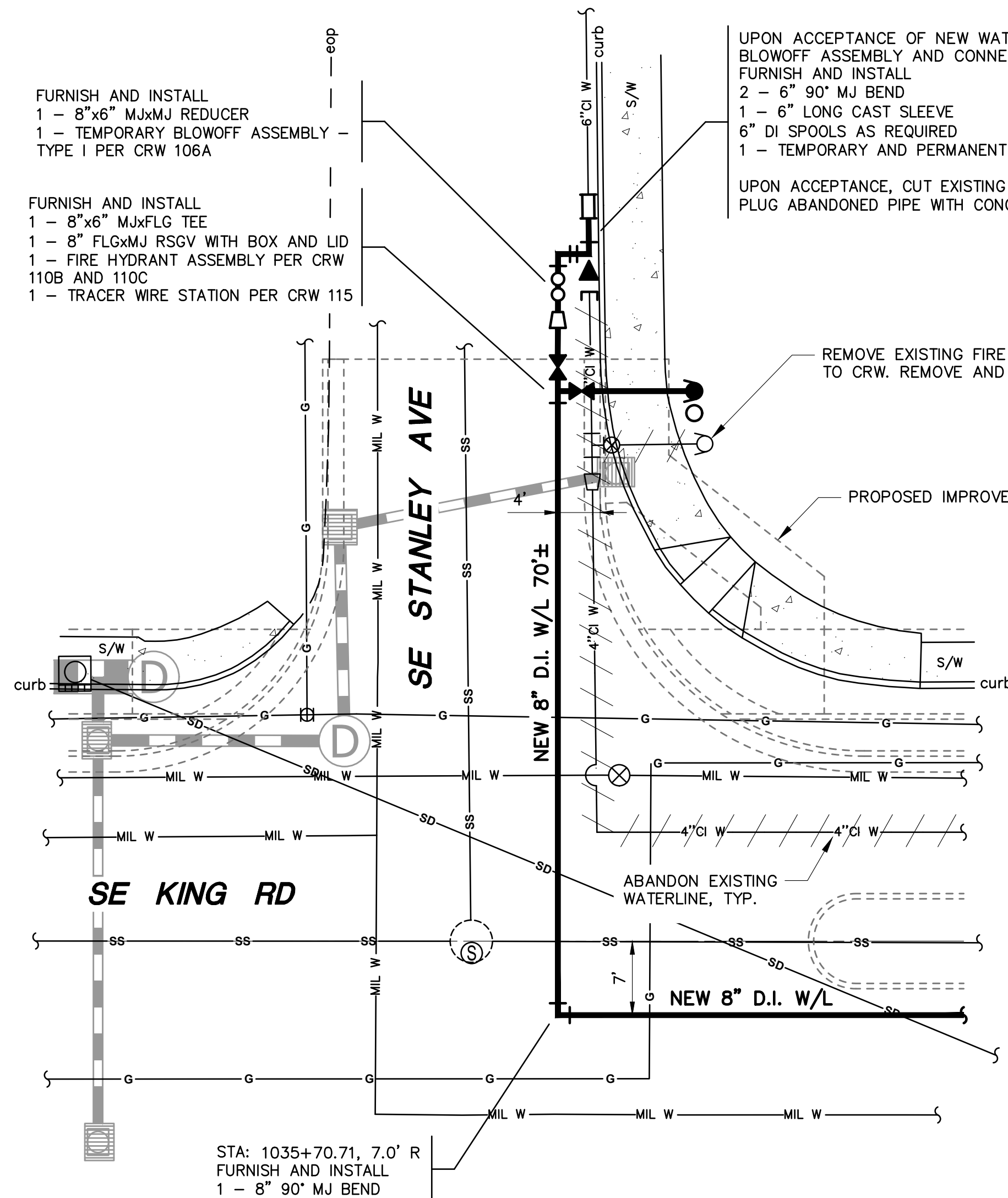


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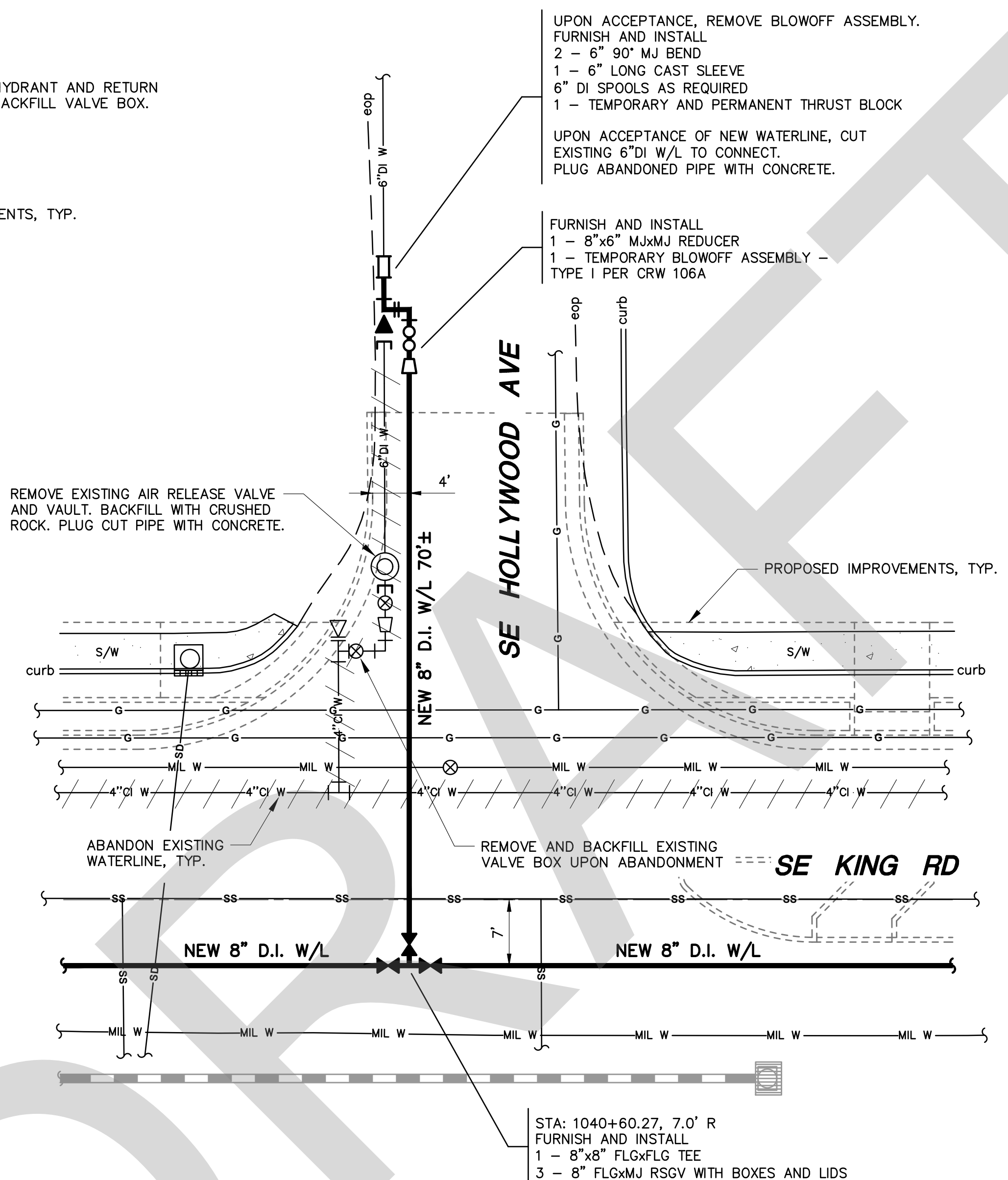
**KING RD IMPROVEMENTS**

**PLAN AND PROFILE**  
STA. 1041+50 TO STA. 1046+00

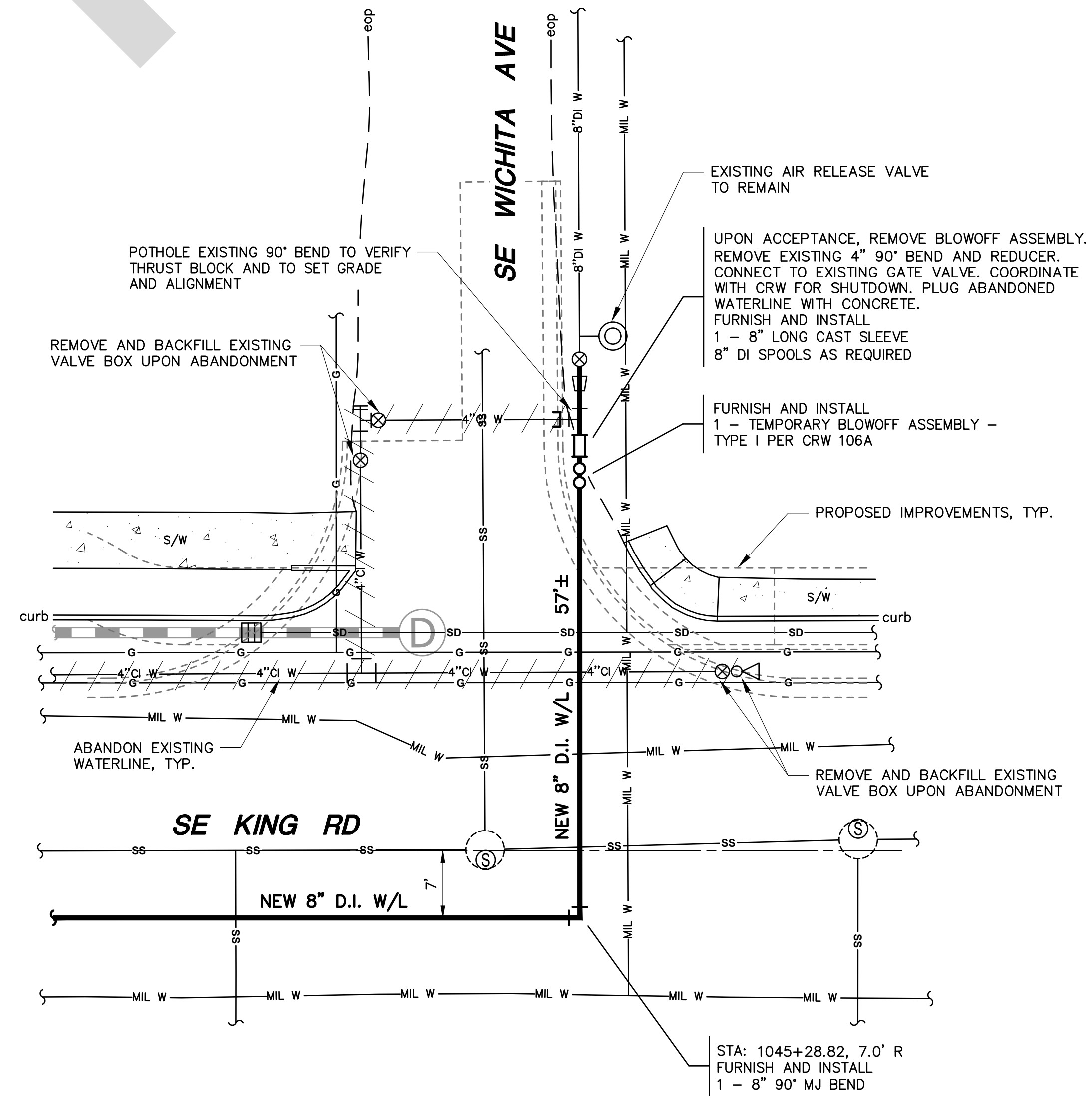
PROJECT No. 24-5302  
FILE NAME: 24-5302\_KINGRD\_IMPROVEMENTS\_DES1



**1 CONNECTION DETAIL 1 - SE STANLEY AVENUE**



**2 CONNECTION DETAIL 2 - SE HOLLYWOOD AVENUE**



**3 CONNECTION DETAIL 3 - SE WICHITA AVENUE**

**LEGEND:**

- NEW WATERLINE
- X"XX W EXISTING CLACKAMAS RIVER WATER WATERLINE
- EXISTING WATERLINE ABANDONED IN PLACE (VALVE BOXES REMOVED AND SURFACE RESTORED)
- EXISTING CITY OF MILWAUKIE WATERLINE
- PROPOSED IMPROVEMENTS
- PROPOSED STORM

No.	DATE	REVISION	BY

ATTENTION

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

**Clackamas River Water**  
16770 SE 82nd Drive P.O. Box 2439  
Clackamas, Oregon 97015 Clackamas, Oregon 97015  
(503) 722-9220 FAX (503) 656-7086  
crw@crwater.com

APPROVED BY: \_\_\_\_\_ APPROVAL DATE: \_\_\_\_\_

**PRELIMINARY**  
EXPIRES: 12/31/25

DESIGNED BY: JDE	PROJECT NAME: KING RD IMPROVEMENTS
DRAFTED BY: MJG	
CHECKED BY: JDE	SHEET TITLE: CONNECTION DETAILS
DATE: SEPT 2024	
SCALE: AS SHOWN	PROJECT No. 24-5302
	FILE NAME: 24-5302_KINGRD_IMPROVEMENTS_DES1

**CRW4**

SHEET 5 of 6