

LAKEWOOD STATION / SR531 ROUNDABOUT

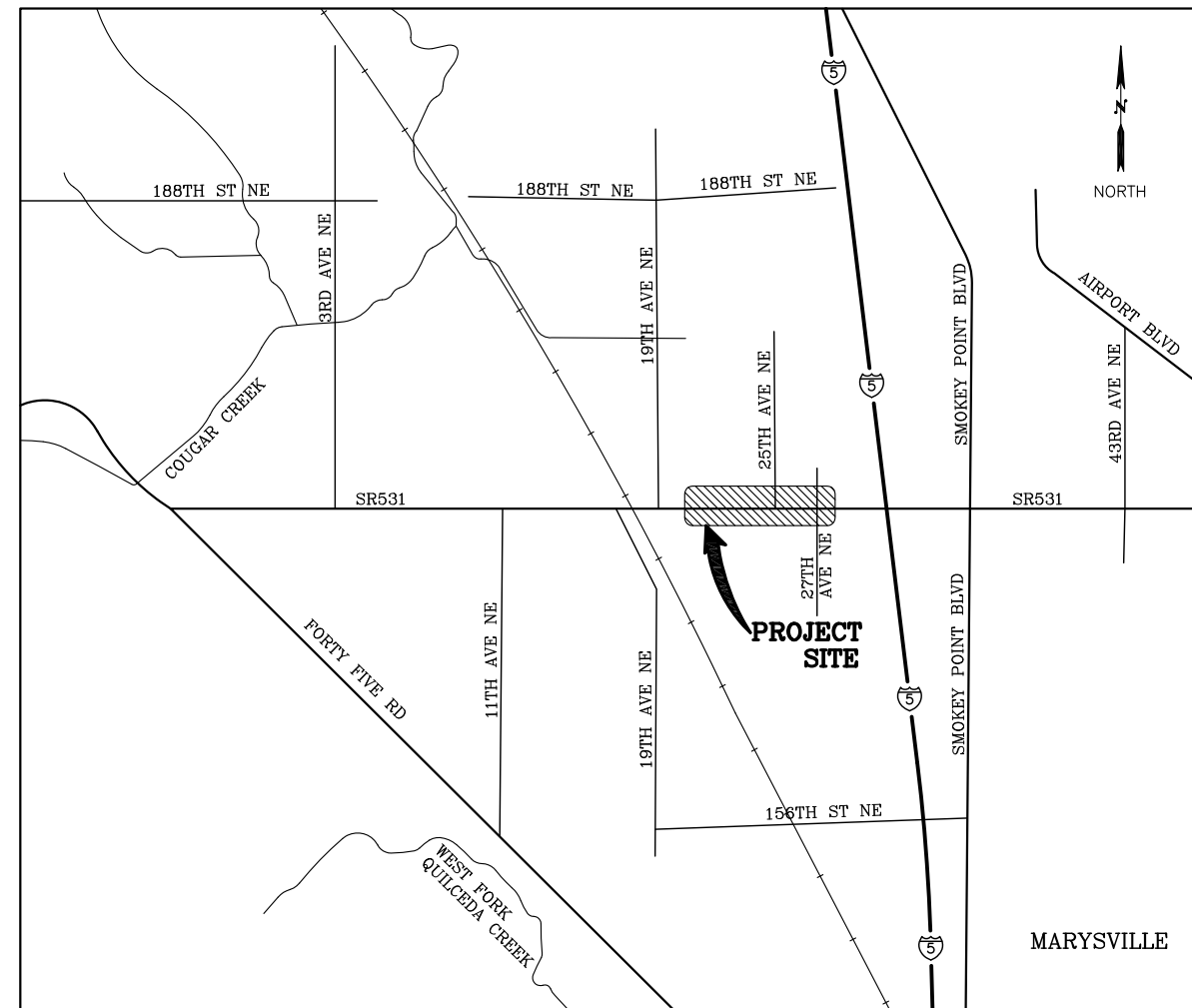
MARYSVILLE, WA

SMOKEY POINT COMMERCIAL, LLC

SHEET INDEX

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VICINITY MAP



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

**100% SUBMITTAL
 - NOT FOR
 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 COVER SHEET, VICINITY MAP, AND SHEET INDEX

Reid Middleton

728 134th Street SW - Suite 200
 Everett, Washington 98204
 Ph: 425 741-3800

25.2015.002

Project No.

COV1

Sheet No.
 1 OF 55



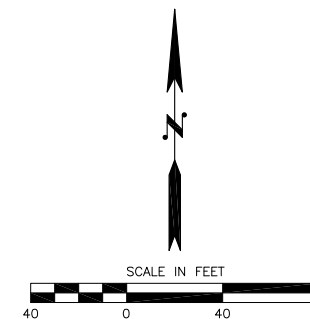
Know what's below.
 Call before you dig.

SEE SPECIAL PROVISION DOCUMENT FOR SPECIAL PROVISIONS

SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

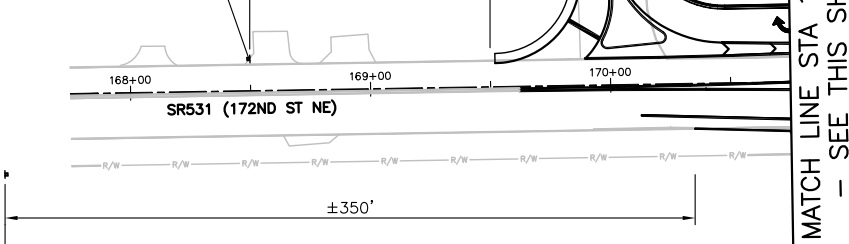
GENERAL NOTES:

1. INTERSECTION MUST REMAIN OPEN AT ALL TIMES.
2. MINIMUM TEMPORARY ACCESS LANE WIDTH IS 11'.
3. CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL PLAN FOR APPROVAL.
4. ALL TEMPORARY ROADWAY STRIPING AND SIGNING SHALL BE SHOWN ON THE CONTRACTOR PROVIDED TRAFFIC CONTROL PLAN.
5. THE CONTRACTOR SHALL ADJUST CHANNELIZATION DEVICES AS NEEDED TO SUIT TRAFFIC AND VISIBILITY CONDITIONS. LAYOUT TO BE APPROVED BY THE PROJECT ENGINEER.
6. SIGNS WITHIN WORK AREA SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND MUTCD.
7. FLAGGER STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.
8. RADIO COMMUNICATIONS IS RECOMMENDED BETWEEN FLAGGERS, AND IS REQUIRED IF FLAGGERS DO NOT HAVE CLEAR VISION OF EACH OTHER.
9. TRAFFIC CONTROL PLANS SHALL BE BASED ON THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION'S CURRENT WORK ZONE TRAFFIC CONTROL GUIDELINES AND SECTION K OF THE WSDOT STANDARD PLANS.
10. NO ENCROACHMENT ON TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
11. SIGNS SHALL NOT BE LOCATED WHERE THEY MAY CAUSE SIGHT DISTANCE PROBLEMS.
12. IF WORK INCLUDES GROOVED PAVEMENT, ABRUPT LANE EDGES, STEEL PLATES, OR GRAVEL OR EARTH SURFACES, SIGNS SHALL BE PLACED STATING THE CONDITION, AS REQUIRED BY THE CURRENT M.U.T.C.D. AND WAC 468-95.
13. CONTRACTOR SHALL FURNISH ALL SIGNS.
14. SIGNS SHALL BE MOUNTED ON 4X4 POSTS.
15. CLASS B SIGNS ARE NOT SHOWN ON DRAWING.



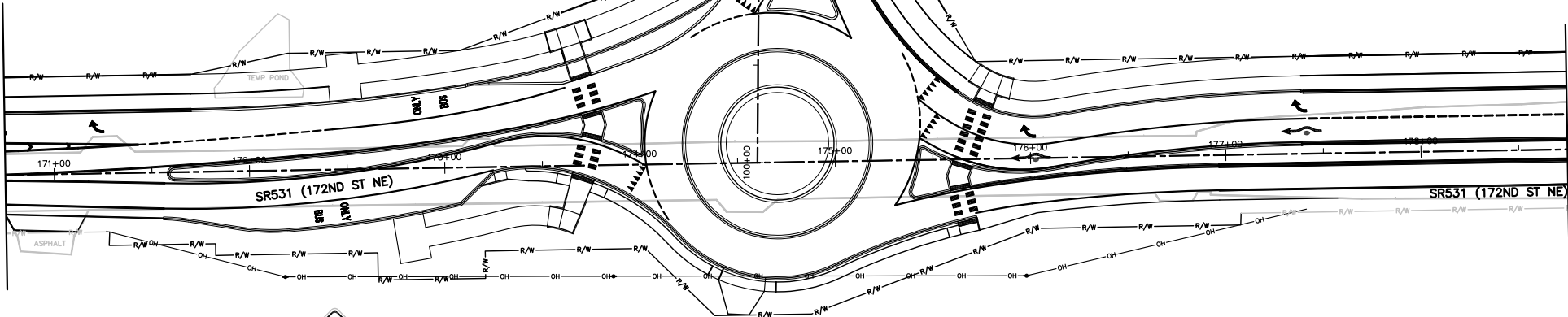
END ROAD WORK

G20-2A
48"x24"
BLACK ON ORANGE



W20-1
48"x48"
BLACK ON ORANGE

MATCH LINE STA 170+75
- SEE THIS SHEET



MATCH LINE STA 178+75
- SEE THIS SHEET

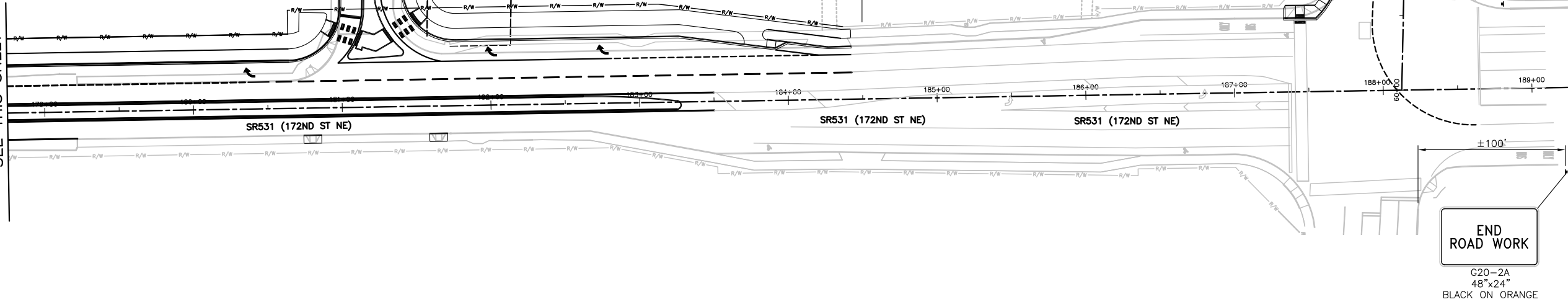


W20-1
48"x48"
BLACK ON ORANGE

END ROAD WORK

G20-2A
48"x24"
BLACK ON ORANGE

MATCH LINE STA 178+75
- SEE THIS SHEET



W20-1
48"x48"
BLACK ON ORANGE

END ROAD WORK

G20-2A
48"x24"
BLACK ON ORANGE



ENGINEER: RAK
DESIGNED BY: SL
DRAWN BY: KGH
CHECKED BY: XXX
DATE: XXX

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LAKWOOD STATION/
SR531 ROUNDABOUT
CLASS A CONSTRUCTION SIGN PLACEMENT

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Project No. 25.2015.002
TC1
Sheet No. 2 OF 55









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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

PHASE 1 NOTES

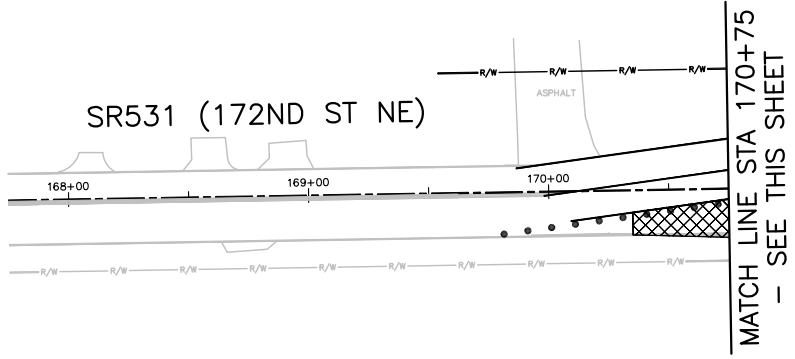
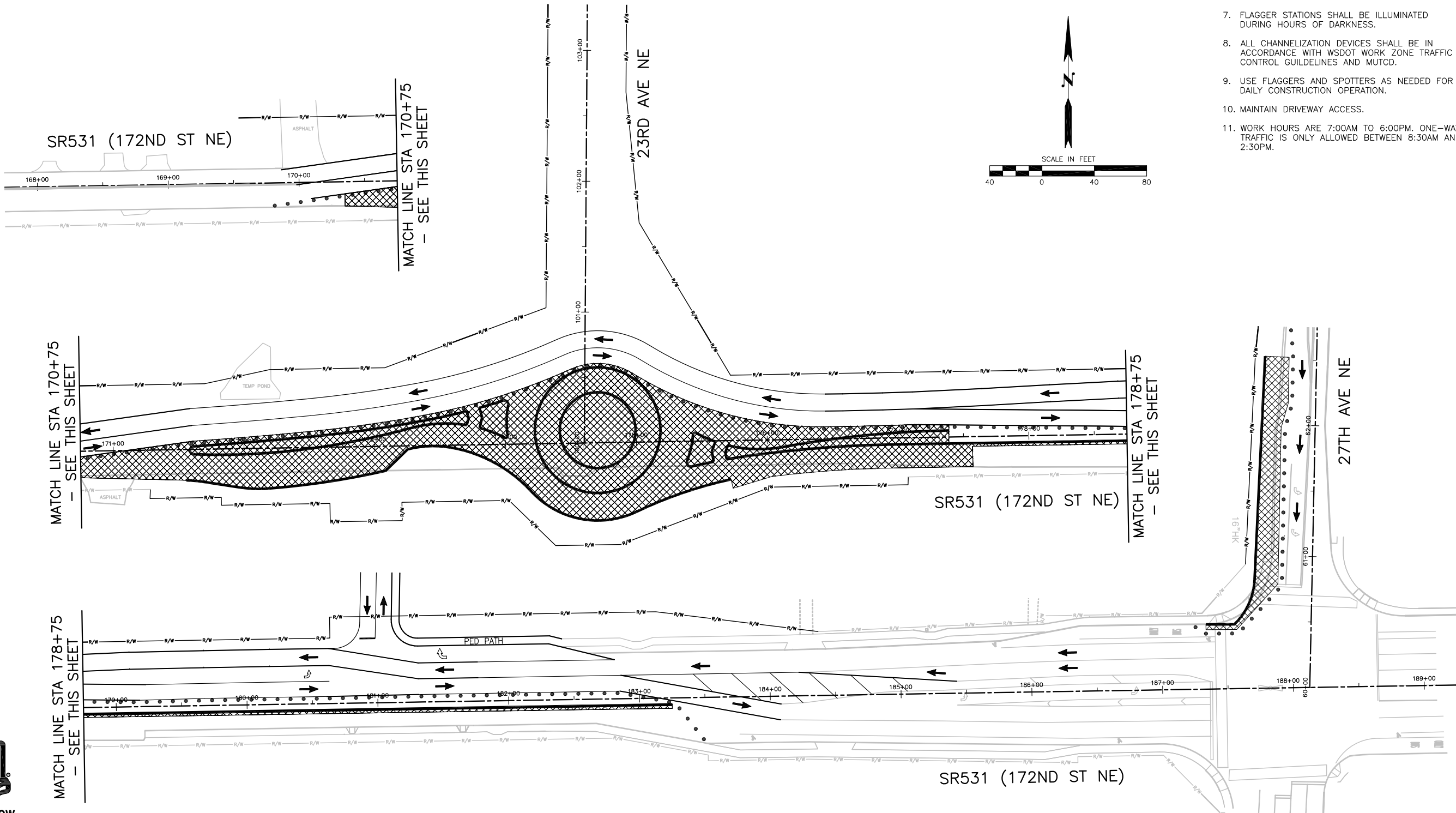
1. SHIFT TRAFFIC TO NORTH SIDE OF SR531 AND ON TEMPORARY PAVEMENT AND REDUCE WESTBOUND TRAFFIC TO ONE LANE.
2. REDUCE SOUTHBOUND TRAFFIC ON 27TH AVENUE NE TO ONE LANE.
3. TEMPORARILY RELOCATE BUS STOP DURING THIS PHASE OF CONSTRUCTION.
4. CONSTRUCT ROAD WIDENING, CURB & GUTTER, AND SIDEWALK ON 27TH AVENUE NE.
5. CONSTRUCT SOUTH PORTION OF ROUNDABOUT, CURB & GUTTER, SIDEWALK, WEST SPLITTER ISLAND, A PORTION OF EAST SPLITTER ISLAND, AND CENTER ISLAND.

LEGEND

- ← TRAFFIC FLOW DIRECTION
-  CURRENT PHASE OF WORK
-  PREVIOUS PHASE OF WORK
-  TYPE 3 BARRICADE PER WSDOT STANDARD PLAN K-80.20-00
-  TRAFFIC SAFETY DRUMS, 10' SPACING
-  TEMPORARY PAVEMENT MARKING
-  CONSTRUCT CURB

GENERAL NOTES:

1. THE PHASING SHOWN ON THIS DRAWING IS ONE APPROACH. THE CONTRACTOR MUST SUBMIT A PHASING PLAN WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN PER SPECIAL PROVISION 1-07.23(3).
2. INTERSECTION MUST REMAIN OPEN TO TRAFFIC ALONG SR531 AT ALL TIME UNLESS A WSDOT APPROVED CLOSURE IS IN EFFECT.
3. MINIMUM TEMPORARY ACCESS LANE WIDTH IS 11'.
4. COORDINATE PHASING WITH ALL UTILITY WORK.
5. THE CONTRACTOR SHALL ADJUST CHANNELIZATION DEVICES AS NEEDED TO SUIT TRAFFIC AND VISIBILITY CONDITIONS. LAYOUT TO BE APPROVED BY THE PROJECT ENGINEER.
6. SIGNS WITHIN WORK AREA SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND MUTCD.
7. FLAGGER STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.
8. ALL CHANNELIZATION DEVICES SHALL BE IN ACCORDANCE WITH WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES AND MUTCD.
9. USE FLAGGERS AND SPOTTERS AS NEEDED FOR DAILY CONSTRUCTION OPERATION.
10. MAINTAIN DRIVEWAY ACCESS.
11. WORK HOURS ARE 7:00AM TO 6:00PM. ONE-WAY TRAFFIC IS ONLY ALLOWED BETWEEN 8:30AM AND 2:30PM.



MATCH LINE STA 170+75
— SEE THIS SHEET

MATCH LINE STA 178+75
— SEE THIS SHEET

MATCH LINE STA 178+75
— SEE THIS SHEET



Know what's below.
Call before you dig.



ENGINEER: RAK
DESIGNED BY: SL
DRAWN BY: KGH
CHECKED BY: XXX
DATE: XXX

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**LAKEWOOD STATION/
SR531 ROUNDABOUT**
CONCEPT CONSTRUCTION PHASING PLAN



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3 OF 55

SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

PHASE 2 NOTES

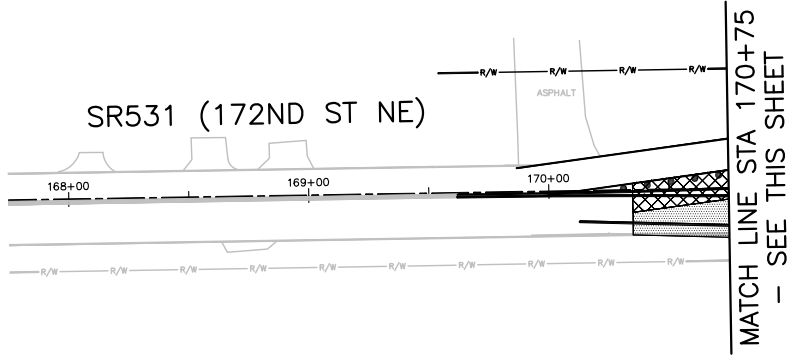
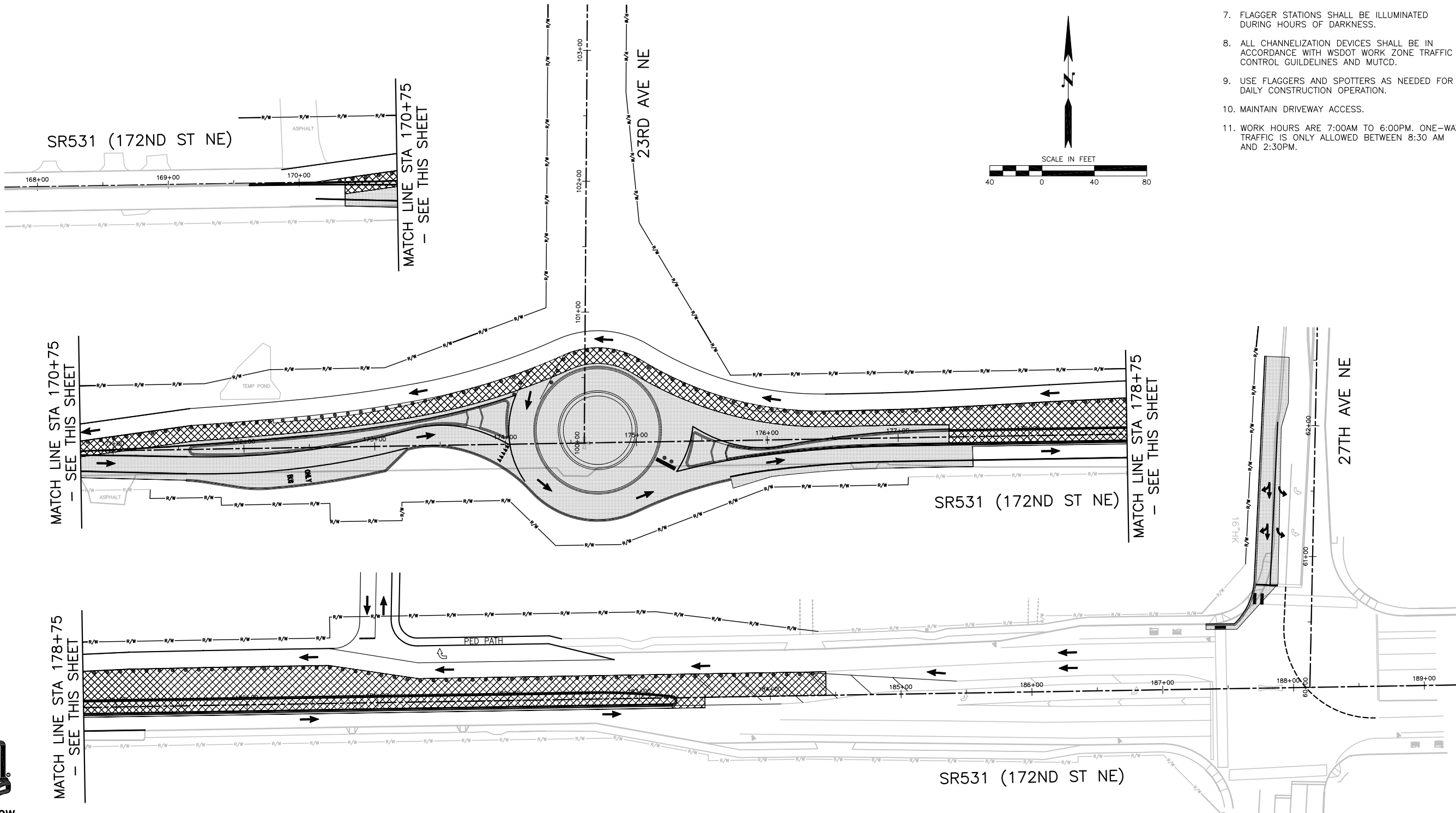
1. SHIFT EASTBOUND TRAFFIC TO NEW ROUNDABOUT LANES. TRAFFIC WILL YIELD ON ENTRY TYPICAL TO ROUNDABOUT OPERATION.
2. CONSTRUCT REMAINING PORTION OF EAST SPLITTER ISLAND.

LEGEND

- ← TRAFFIC FLOW DIRECTION
-  CURRENT PHASE OF WORK
-  PREVIOUS PHASE OF WORK
-  TYPE 3 BARRICADE PER WSDOT STANDARD PLAN K-80.20-00
-  TRAFFIC SAFETY DRUMS, 10' SPACING
-  TEMPORARY PAVEMENT MARKING
-  CONSTRUCT CURB

GENERAL NOTES:

1. THE PHASING SHOWN ON THIS DRAWING IS ONE APPROACH. THE CONTRACTOR MUST SUBMIT A PHASING PLAN WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN PER SPECIAL PROVISION 1-07.23(3).
2. INTERSECTION MUST REMAIN OPEN TO TRAFFIC ALONG SR531 AT ALL TIME UNLESS A WSDOT APPROVED CLOSURE IS IN EFFECT.
3. MINIMUM TEMPORARY ACCESS LANE WIDTH IS 11'.
4. COORDINATE PHASING WITH ALL UTILITY WORK.
5. THE CONTRACTOR SHALL ADJUST CHANNELIZATION DEVICES AS NEEDED TO SUIT TRAFFIC AND VISIBILITY CONDITIONS. LAYOUT TO BE APPROVED BY THE PROJECT ENGINEER.
6. SIGNS WITHIN WORK AREA SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND MUTCD.
7. FLAGGER STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.
8. ALL CHANNELIZATION DEVICES SHALL BE IN ACCORDANCE WITH WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES AND MUTCD.
9. USE FLAGGERS AND SPOTTERS AS NEEDED FOR DAILY CONSTRUCTION OPERATION.
10. MAINTAIN DRIVEWAY ACCESS.
11. WORK HOURS ARE 7:00AM TO 6:00PM. ONE-WAY TRAFFIC IS ONLY ALLOWED BETWEEN 8:30 AM AND 2:30PM.



MATCH LINE STA 170+75
— SEE THIS SHEET

MATCH LINE STA 178+75
— SEE THIS SHEET

MATCH LINE STA 178+75
— SEE THIS SHEET



Know what's below.
Call before you dig.



ENGINEER: RAK
DESIGNED BY: SL
DRAWN BY: KGH
CHECKED BY: XXX
DATE: XXX

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**LAKEWOOD STATION/
SR531 ROUNDABOUT**
CONCEPT CONSTRUCTION PHASING PLAN



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CP2
Sheet No.

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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

PHASE 3 NOTES

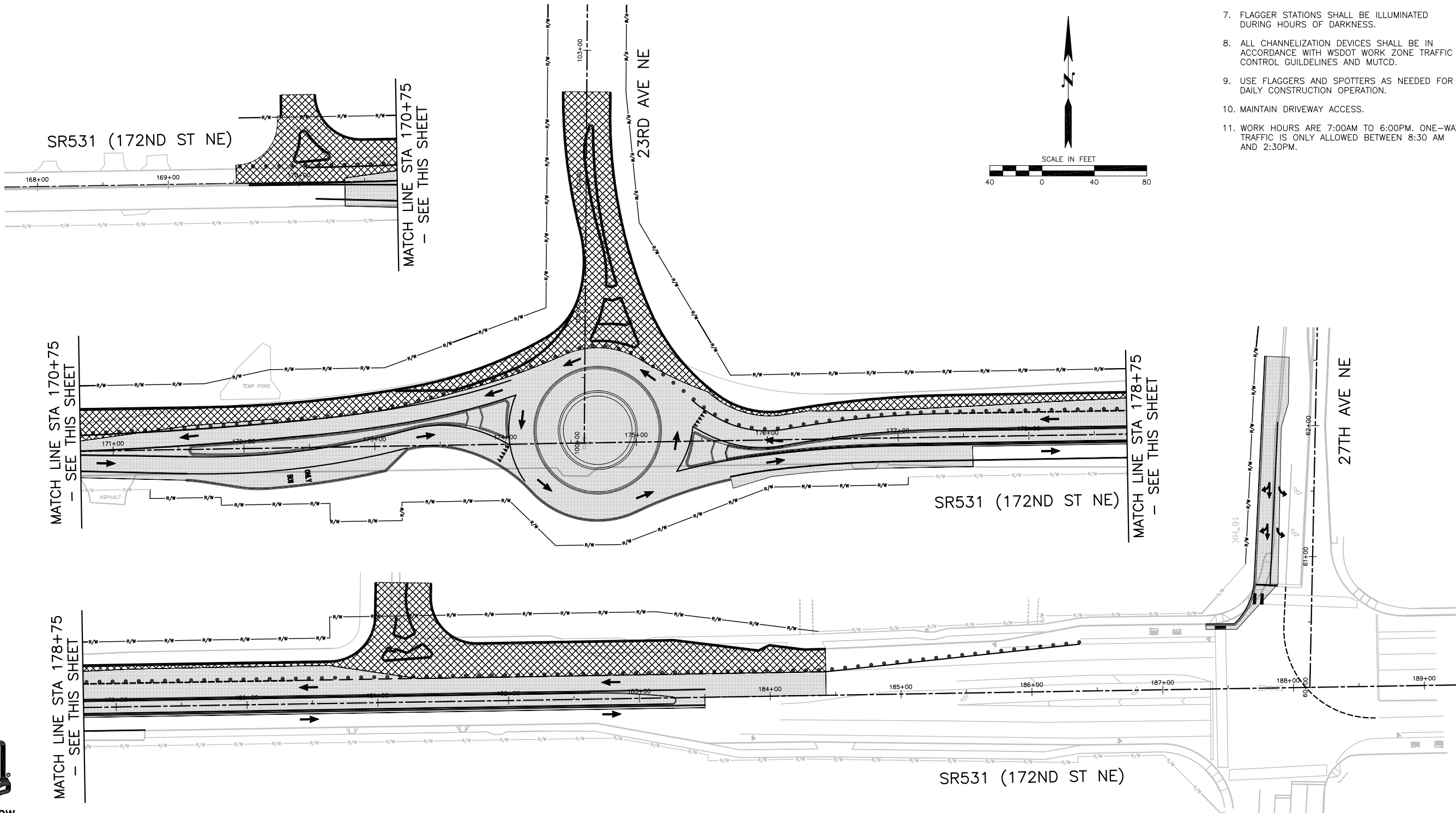
- ROUTE ALL TRAFFIC ONTO NEW ROUNDABOUT LANES FOLLOWING PROPOSED ROUNDABOUT CHANNELIZATION. ALL TRAFFIC WILL YIELD ON ENTRY TYPICAL TO ROUNDABOUT OPERATION.
- REMOVE TEMPORARY PAVING CONSTRUCTED FOR PHASES 1 AND 2.
- CONSTRUCT CURB & GUTTER, SIDEWALK, NORTH SPLITTER ISLAND, DRIVEWAY WEST OF ROUNDABOUT, AND DRIVEWAY AT FORMER 25TH AVENUE NE.

LEGEND

- TRAFFIC FLOW DIRECTION
- CURRENT PHASE OF WORK
- PREVIOUS PHASE OF WORK
- TYPE 3 BARRICADE PER WSDOT STANDARD PLAN K-80.20-00
- TRAFFIC SAFETY DRUMS, 10' SPACING
- TEMPORARY PAVEMENT MARKING
- CONSTRUCT CURB

GENERAL NOTES:

- THE PHASING SHOWN ON THIS DRAWING IS ONE APPROACH. THE CONTRACTOR MUST SUBMIT A PHASING PLAN WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN PER SPECIAL PROVISION 1-07.23(3).
- INTERSECTION MUST REMAIN OPEN TO TRAFFIC ALONG SR531 AT ALL TIME UNLESS A WSDOT APPROVED CLOSURE IS IN EFFECT.
- MINIMUM TEMPORARY ACCESS LANE WIDTH IS 11'.
- COORDINATE PHASING WITH ALL UTILITY WORK.
- THE CONTRACTOR SHALL ADJUST CHANNELIZATION DEVICES AS NEEDED TO SUIT TRAFFIC AND VISIBILITY CONDITIONS. LAYOUT TO BE APPROVED BY THE PROJECT ENGINEER.
- SIGNS WITHIN WORK AREA SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND MUTCD.
- FLAGGER STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.
- ALL CHANNELIZATION DEVICES SHALL BE IN ACCORDANCE WITH WSDOT WORK ZONE TRAFFIC CONTROL GUIDELINES AND MUTCD.
- USE FLAGGERS AND SPOTTERS AS NEEDED FOR DAILY CONSTRUCTION OPERATION.
- MAINTAIN DRIVEWAY ACCESS.
- WORK HOURS ARE 7:00AM TO 6:00PM. ONE-WAY TRAFFIC IS ONLY ALLOWED BETWEEN 8:30 AM AND 2:30PM.



ENGINEER: RAK
 DESIGNED BY: SL
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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LAKEWOOD STATION/
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 CONCEPT CONSTRUCTION PHASING PLAN

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 Sheet No. CP3
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

BASIS OF BEARINGS:

N 89°03'37" E ON THE SOUTH LINE OF SW 1/4 OF SEC 20 PER RECORD OF SURVEY AFN 200002285002.

SURVEY REFERENCES:

BOUNDARY LINE ADJUSTMENT AUDITOR'S FILE NUMBER 201409125001

RECORD OF SURVEY AUDITOR'S FILE NUMBER 9905065002

RECORD OF SURVEY AUDITOR'S FILE NUMBER 200002285002

RECORD OF SURVEY AUDITOR'S FILE NUMBER 200309165002

DATUM:

VERTICAL DATUM: NAVD88

BENCHMARK: MAG NAIL AND WASHER AT TOP OF SOUTHERLY HANDICAP RAMP AT NORTHWEST QUADRANT OF INTERSECTION OF 172ND ST NE AND 25TH AVE NE.

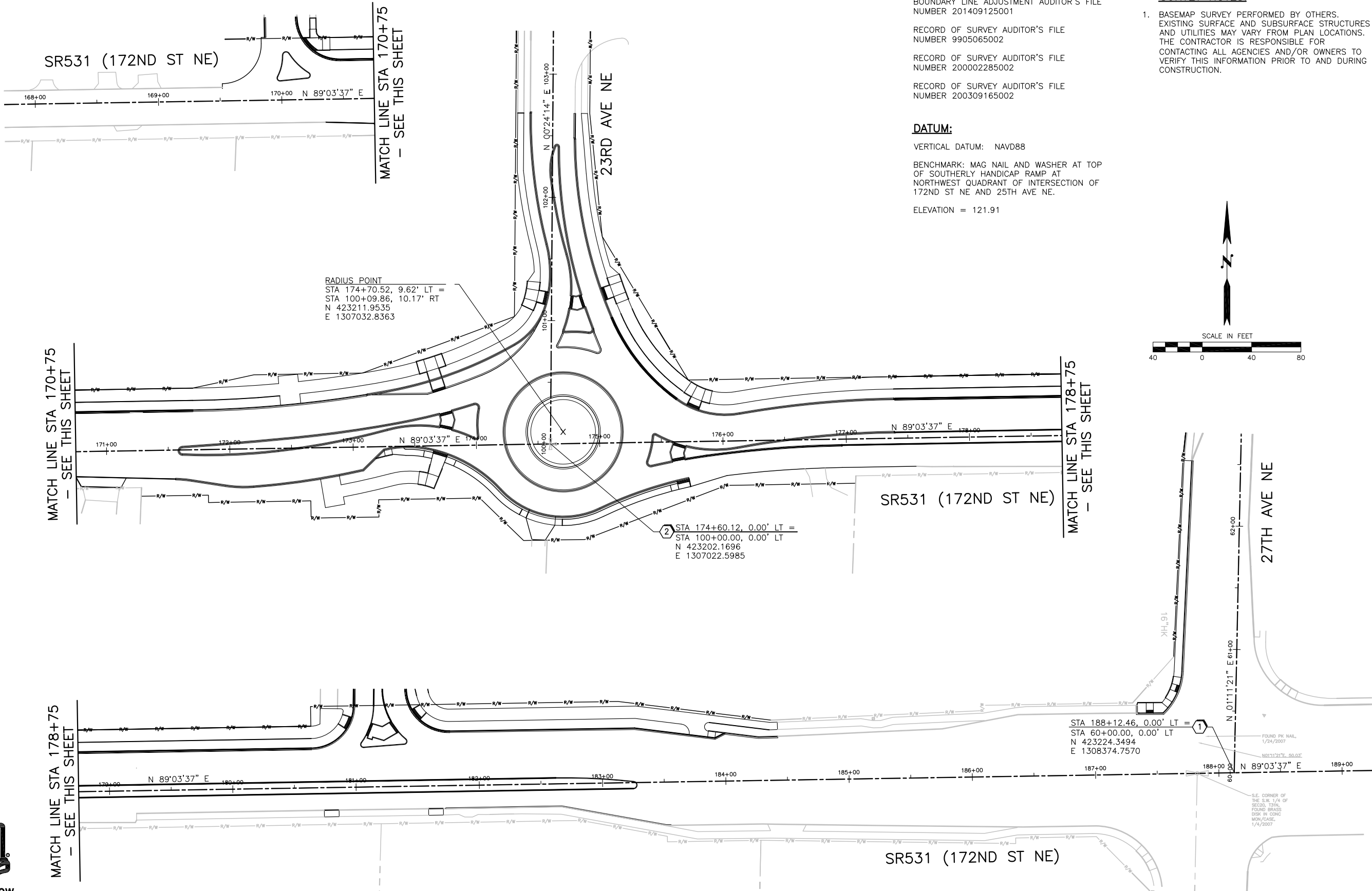
ELEVATION = 121.91

CONSTRUCTION NOTES:

- ① DO NOT DISTURB EXISTING MONUMENT
- ② MONUMENT CASE AND COVER PER WSDOT STD PLAN A-10.30-00

SURVEY NOTES:

- 1. BASEMAP SURVEY PERFORMED BY OTHERS. EXISTING SURFACE AND SUBSURFACE STRUCTURES AND UTILITIES MAY VARY FROM PLAN LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL AGENCIES AND/OR OWNERS TO VERIFY THIS INFORMATION PRIOR TO AND DURING CONSTRUCTION.



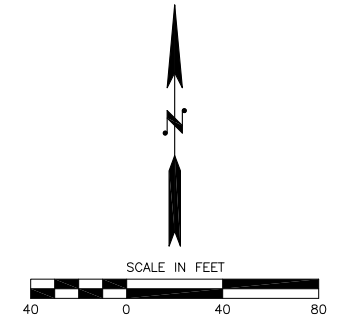
RADIUS POINT
 STA 174+70.52, 9.62' LT =
 STA 100+09.86, 10.17' RT
 N 423211.9535
 E 1307032.8363

② STA 174+60.12, 0.00' LT =
 STA 100+00.00, 0.00' LT
 N 423202.1696
 E 1307022.5985

① STA 188+12.46, 0.00' LT =
 STA 60+00.00, 0.00' LT
 N 423224.3494
 E 1308374.7570

FOUND PK. NAIL
 1/24/2007

FOUND BRASS
 DISK IN CONC
 MON/CASE
 1/4/2007



ENGINEER:	RAK
DESIGNED BY:	RP
DRAWN BY:	KGH
CHECKED BY:	XXX
DATE:	XXX

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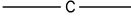

LAKEWOOD STATION/
 SR531 ROUNDABOUT
 LAYOUT PLAN

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 Sheet No. LP1
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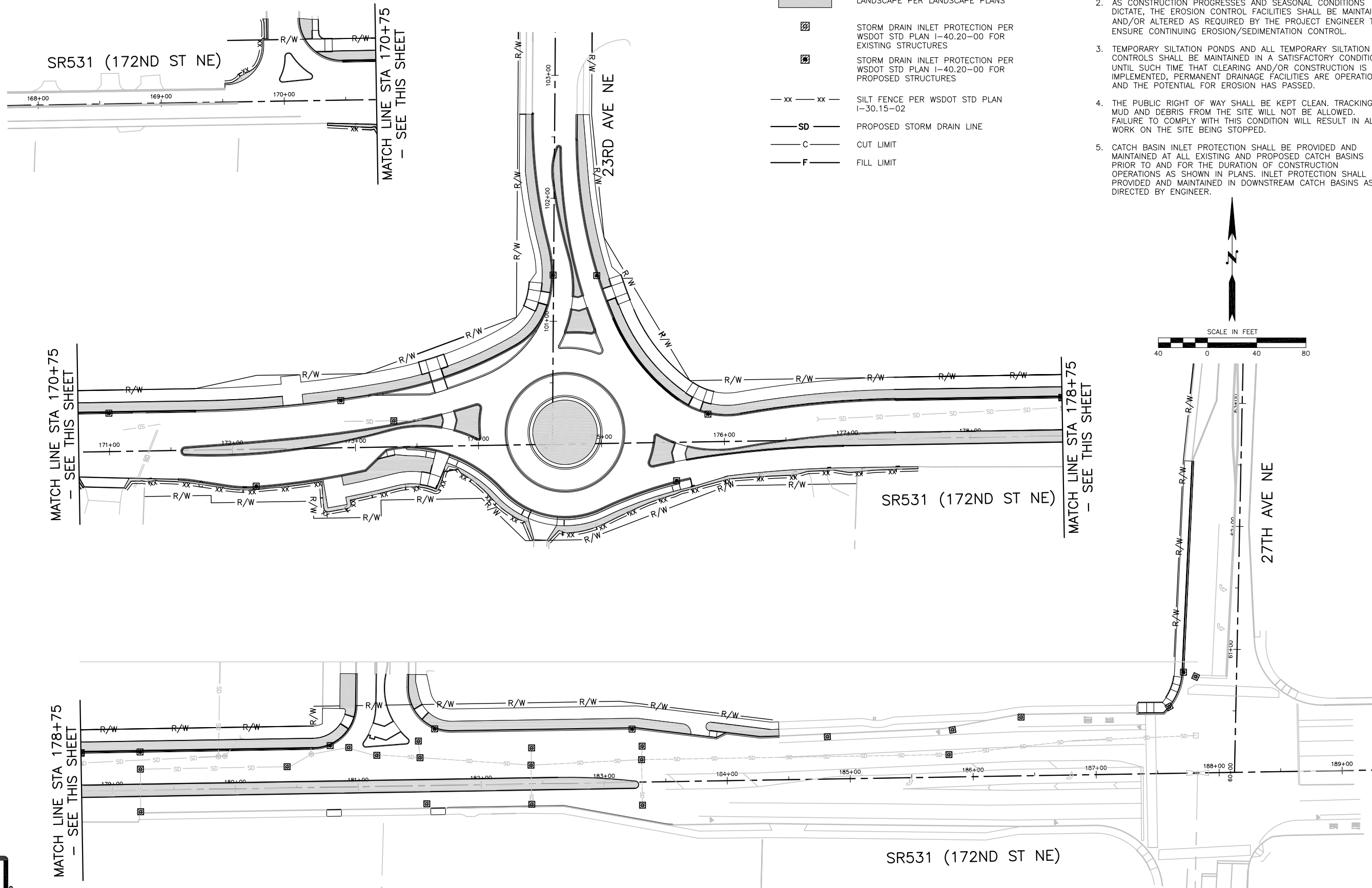
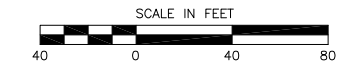
SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

LEGEND:

-  LANDSCAPE PER LANDSCAPE PLANS
-  STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00 FOR EXISTING STRUCTURES
-  STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00 FOR PROPOSED STRUCTURES
-  SILT FENCE PER WSDOT STD PLAN I-30.15-02
-  PROPOSED STORM DRAIN LINE
-  CUT LIMIT
-  FILL LIMIT

GENERAL NOTES:

1. THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION. WHERE POSSIBLE, NATURAL VEGETATION WILL BE MAINTAINED FOR EROSION CONTROL.
2. AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, THE EROSION CONTROL FACILITIES SHALL BE MAINTAINED AND/OR ALTERED AS REQUIRED BY THE PROJECT ENGINEER TO ENSURE CONTINUING EROSION/SEDIMENTATION CONTROL.
3. TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS IMPLEMENTED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
4. THE PUBLIC RIGHT OF WAY SHALL BE KEPT CLEAN. TRACKING OF MUD AND DEBRIS FROM THE SITE WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED.
5. CATCH BASIN INLET PROTECTION SHALL BE PROVIDED AND MAINTAINED AT ALL EXISTING AND PROPOSED CATCH BASINS PRIOR TO AND FOR THE DURATION OF CONSTRUCTION OPERATIONS AS SHOWN IN PLANS. INLET PROTECTION SHALL BE PROVIDED AND MAINTAINED IN DOWNSTREAM CATCH BASINS AS DIRECTED BY ENGINEER.



NO.	DATE	BY	Checked	Approval	REVISIONS

ENGINEER: RP
 DESIGNED BY:
 DRAWN BY:
 CHECKED BY: XXX
 DATE: XXX

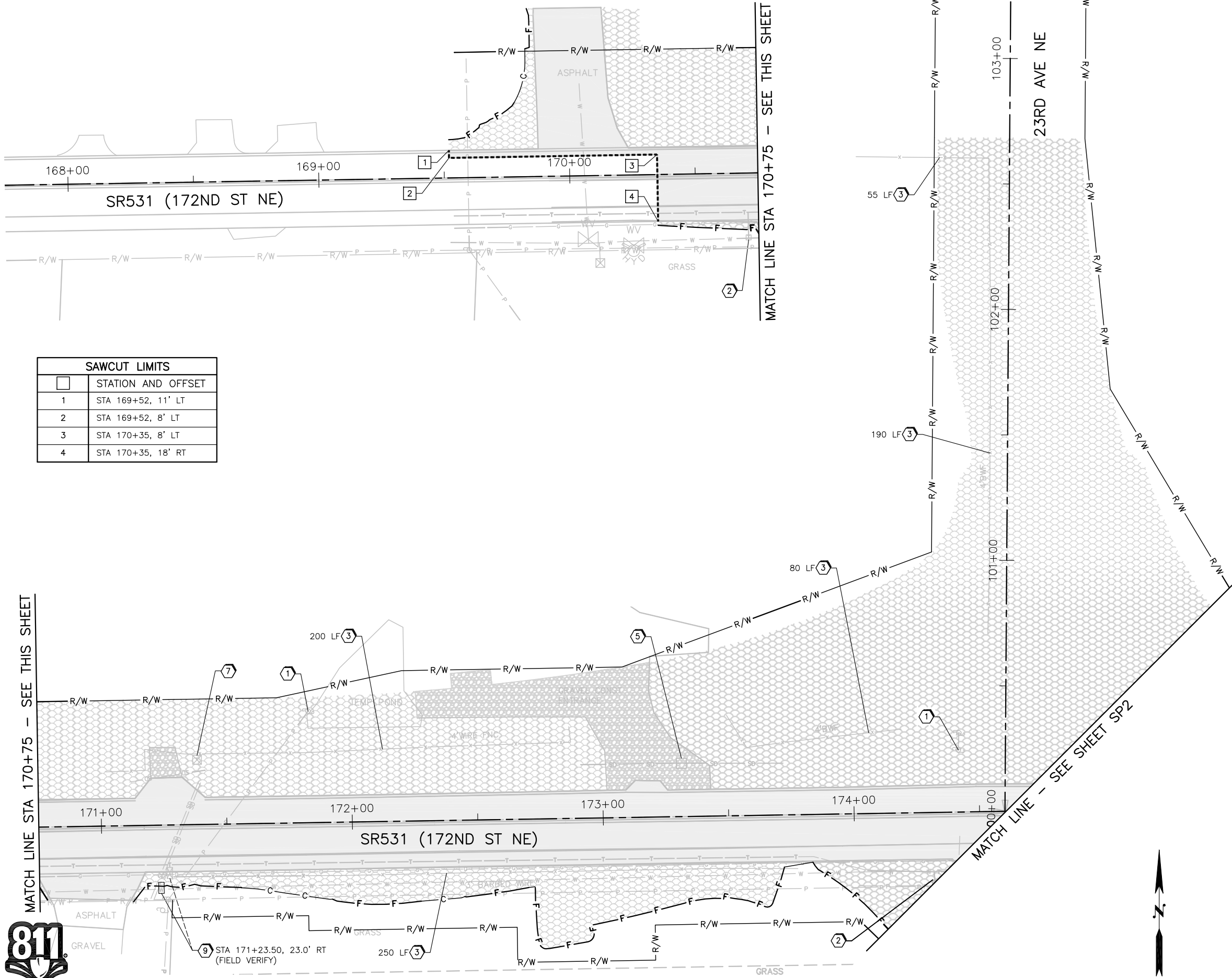
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LAKWOOD STATION/
 SR531 ROUNDABOUT
 EROSION CONTROL PLAN

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 Project No. 25.2015.002
EC1
 Sheet No. 7 OF 55



SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



SAWCUT LIMITS	
NO.	STATION AND OFFSET
1	STA 169+52, 11' LT
2	STA 169+52, 8' LT
3	STA 170+35, 8' LT
4	STA 170+35, 18' RT

GENERAL NOTES:

- SEE SIGNING PLAN AND DETAILS FOR SIGN REMOVAL AND RELOCATION.
- REMOVAL AND PULVERIZATION OF EXISTING PAVEMENT SHOWN FOR INFORMATION ONLY. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
- SEE GRADING, UTILITY, AND ILLUMINATION PLANS TO ADJUST UTILITY STRUCTURES.
- ALL EXISTING CHANNELIZATION CONFLICTING WITH PROPOSED CHANNELIZATION ON CHANNELIZATION PLAN SHALL BE REMOVED. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
- NEW ILLUMINATION SYSTEM SHALL BE IN OPERATION PRIOR TO DISRUPTION TO EXISTING SYSTEM.
- SAWCUT LIMITS SHALL BE PERPENDICULAR TO SIDEWALK/ROADWAY LIMITS UNLESS OTHERWISE NOTED.
- SEE GRADING PLAN AND GRADING DETAILS FOR ADDITIONAL PULVERIZING/PAVEMENT LIMIT INFORMATION.

LEGEND:

- REMOVE CURB/CURB & GUTTER
- SAWCUT PAVEMENT
- CLEARING AND GRUBBING
- PAVEMENT PULVERIZING
- PLANING BITUMINOUS PAVEMENT (2")
- REMOVE CEMENT CONCRETE
- REMOVE GRAVEL
- C CUT LIMIT
- F FILL LIMIT

CONSTRUCTION NOTES:

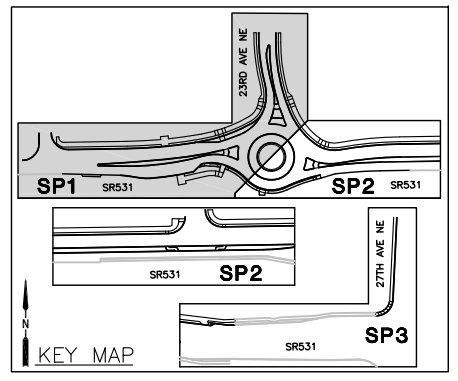
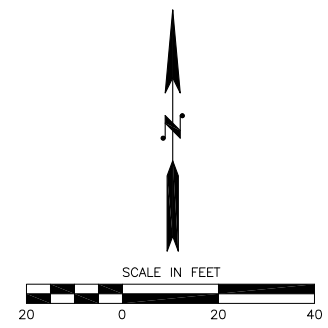
- REMOVE OR RELOCATE UTILITY POLE, BY OTHERS
- RELOCATE/ADJUST TO GRADE TELEPHONE PEDESTAL OR UTILITY BOX, BY OTHERS
- REMOVE FENCE
- REMOVE SERVICE CABINET
- DRAINAGE STRUCTURE - SEE DRAINAGE PLANS FOR REMOVALS/RELOCATIONS OF STRUCTURES AND DRAINAGE PIPES
- REMOVE LUMINAIRE, STREET LIGHT POLE, MAST ARM, FOUNDATION, AND JUNCTION BOX
- REMOVE/RELOCATE WATER METER, BY OTHERS
- SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR RELOCATION/ADJUSTMENT
- RELOCATE EXISTING MAILBOX
- ADJUST SANITARY SEWER MANHOLE TO GRADE



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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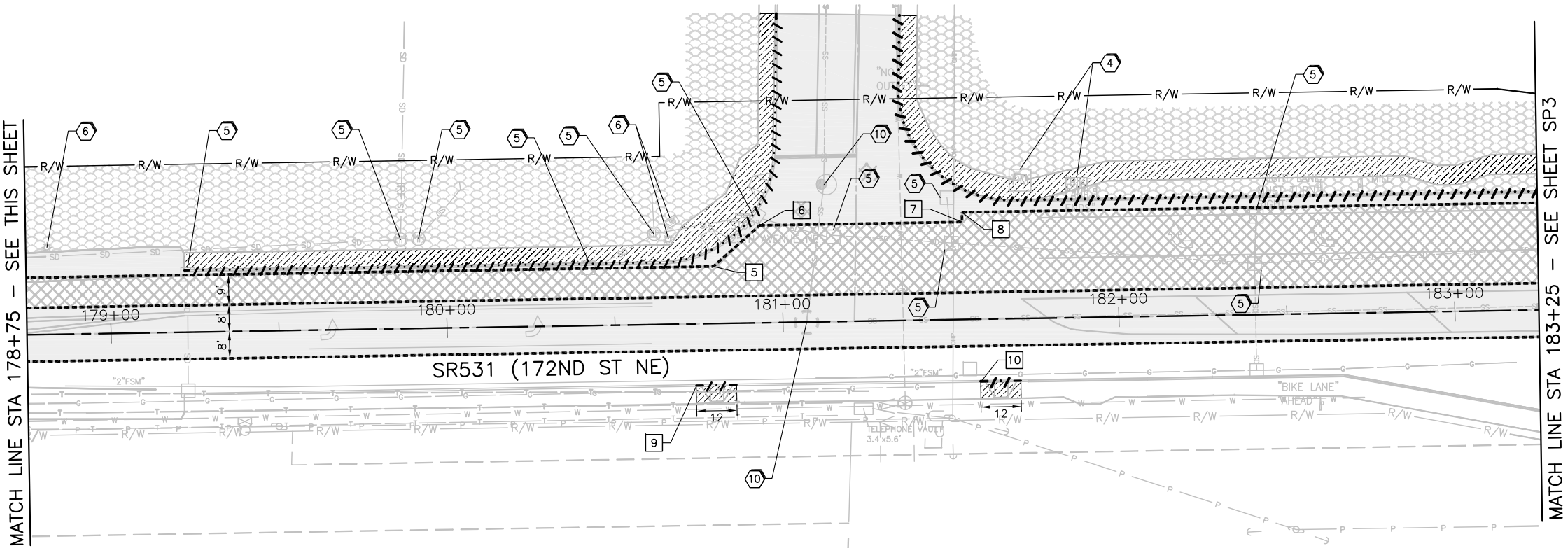
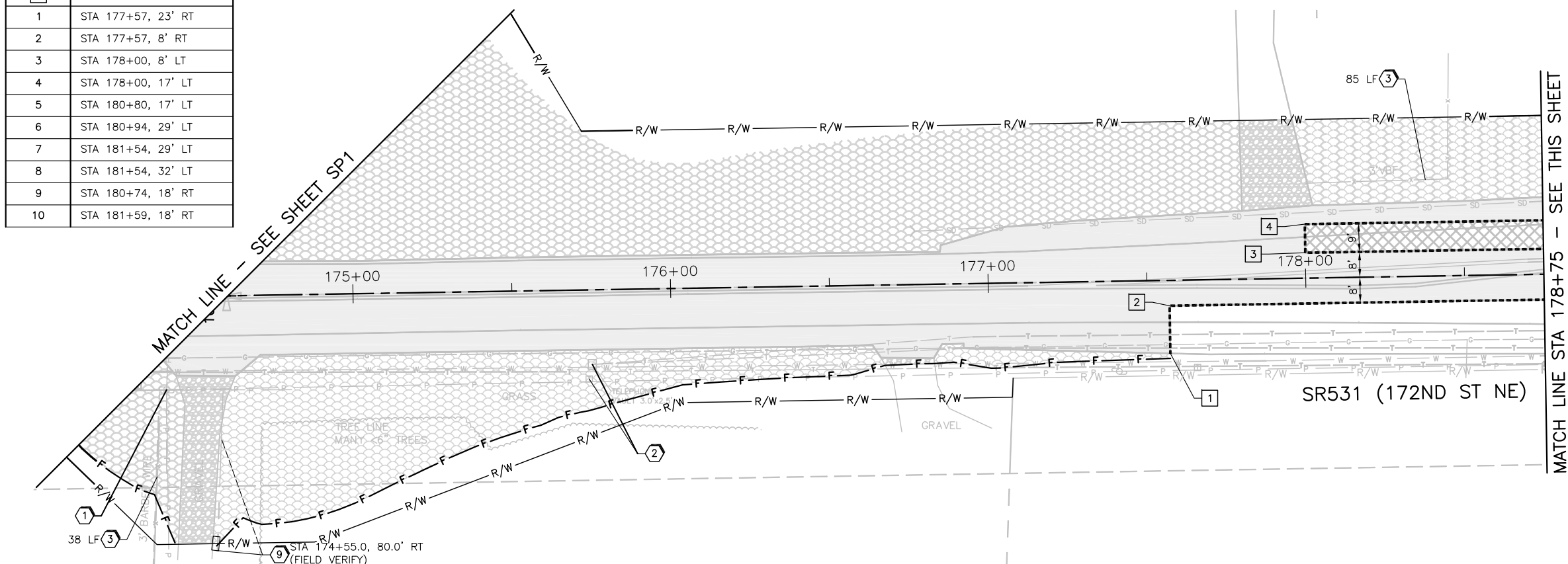
**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 SITE PREPARATION PLAN



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 Ph: 425 741-3800
 Project No. 25.2015.002
SP1
 Sheet No. 8 OF 55

SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

SAWCUT LIMITS	
STATION AND OFFSET	
1	STA 177+57, 23' RT
2	STA 177+57, 8' RT
3	STA 178+00, 8' LT
4	STA 178+00, 17' LT
5	STA 180+80, 17' LT
6	STA 180+94, 29' LT
7	STA 181+54, 29' LT
8	STA 181+54, 32' LT
9	STA 180+74, 18' RT
10	STA 181+59, 18' RT



GENERAL NOTES:

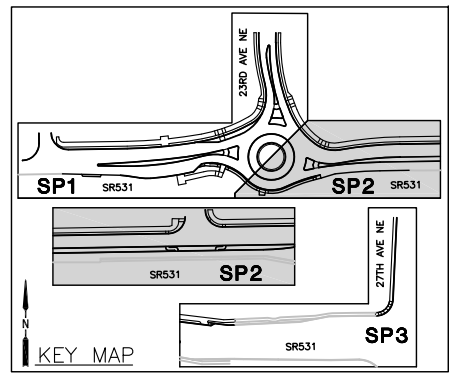
1. SEE SIGNING PLAN AND DETAILS FOR SIGN REMOVAL AND RELOCATION.
2. REMOVAL AND PULVERIZATION OF EXISTING PAVEMENT SHOWN FOR INFORMATION ONLY. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
3. SEE GRADING, UTILITY, AND ILLUMINATION PLANS TO ADJUST UTILITY STRUCTURES.
4. ALL EXISTING CHANNELIZATION CONFLICTING WITH PROPOSED CHANNELIZATION ON CHANNELIZATION PLAN SHALL BE REMOVED. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
5. NEW ILLUMINATION SYSTEM SHALL BE IN OPERATION PRIOR TO DISRUPTION TO EXISTING SYSTEM.
6. SAWCUT LIMITS SHALL BE PERPENDICULAR TO SIDEWALK/ROADWAY LIMITS UNLESS OTHERWISE NOTED.
7. SEE GRADING PLAN AND GRADING DETAILS FOR ADDITIONAL PULVERIZING/PAVEMENT LIMIT INFORMATION.

LEGEND:

- REMOVE CURB/CURB & GUTTER
- SAWCUT PAVEMENT
- CLEARING AND GRUBBING
- PAVEMENT PULVERIZING
- PLANING BITUMINOUS PAVEMENT (2")
- REMOVE CEMENT CONCRETE
- REMOVE GRAVEL
- CUT LIMIT
- FILL LIMIT

CONSTRUCTION NOTES:

- 1 REMOVE OR RELOCATE UTILITY POLE, BY OTHERS
- 2 RELOCATE/ADJUST TO GRADE TELEPHONE PEDESTAL OR UTILITY BOX, BY OTHERS
- 3 REMOVE FENCE
- 4 REMOVE SERVICE CABINET
- 5 DRAINAGE STRUCTURE - SEE DRAINAGE PLANS FOR REMOVALS/RELOCATIONS OF STRUCTURES AND DRAINAGE PIPES
- 6 REMOVE LUMINAIRE, STREET LIGHT POLE, MAST ARM, FOUNDATION, AND JUNCTION BOX
- 7 REMOVE/RELOCATE WATER METER, BY OTHERS
- 8 SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR RELOCATION/ADJUSTMENT
- 9 RELOCATE EXISTING MAILBOX
- 10 ADJUST SANITARY SEWER MANHOLE TO GRADE



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

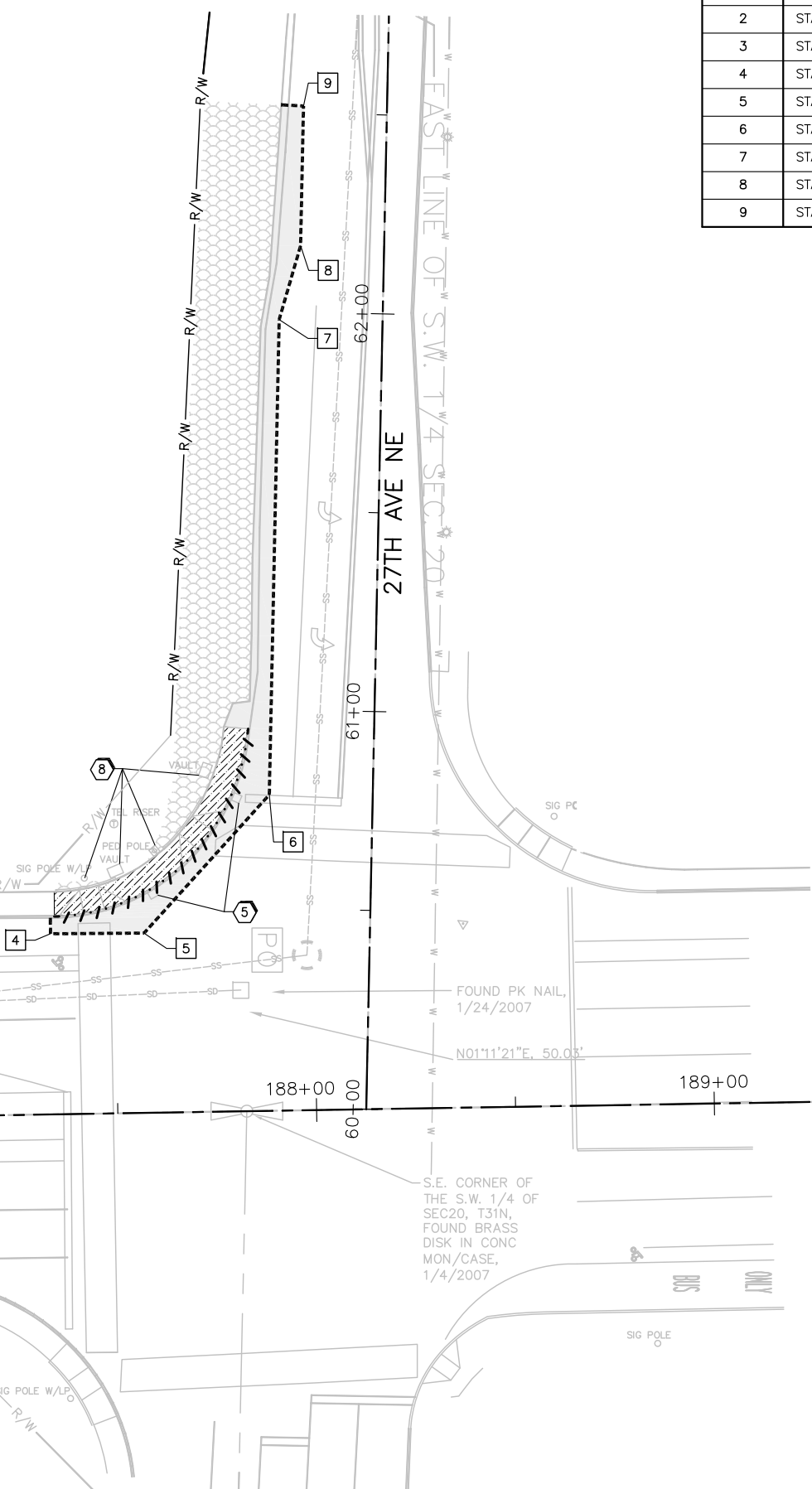
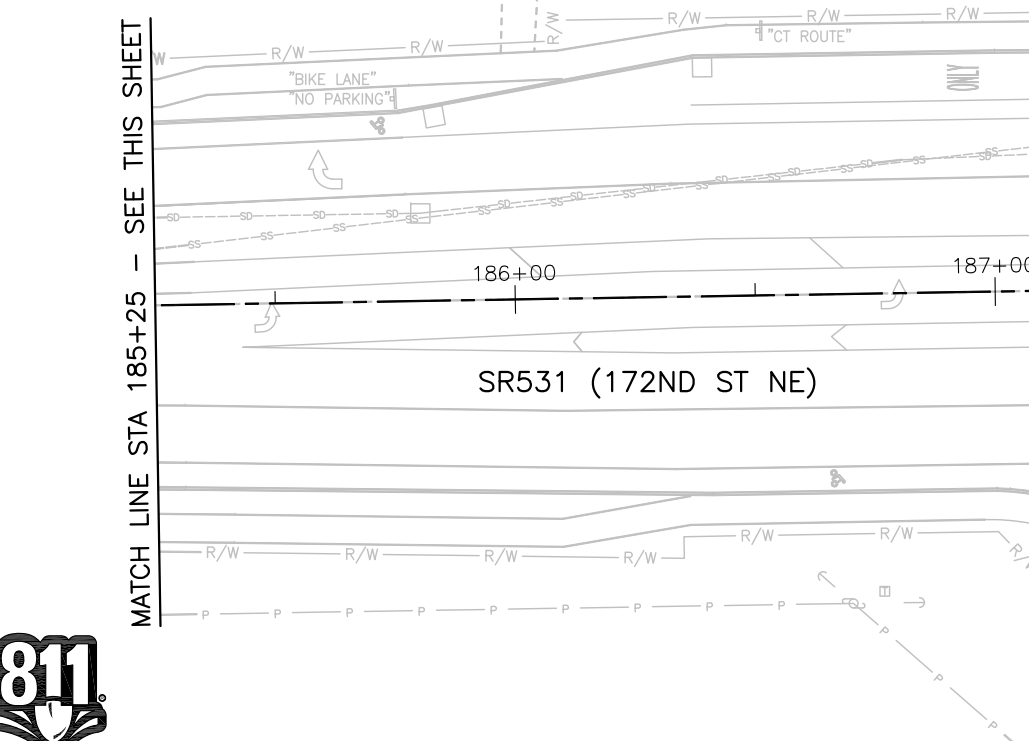
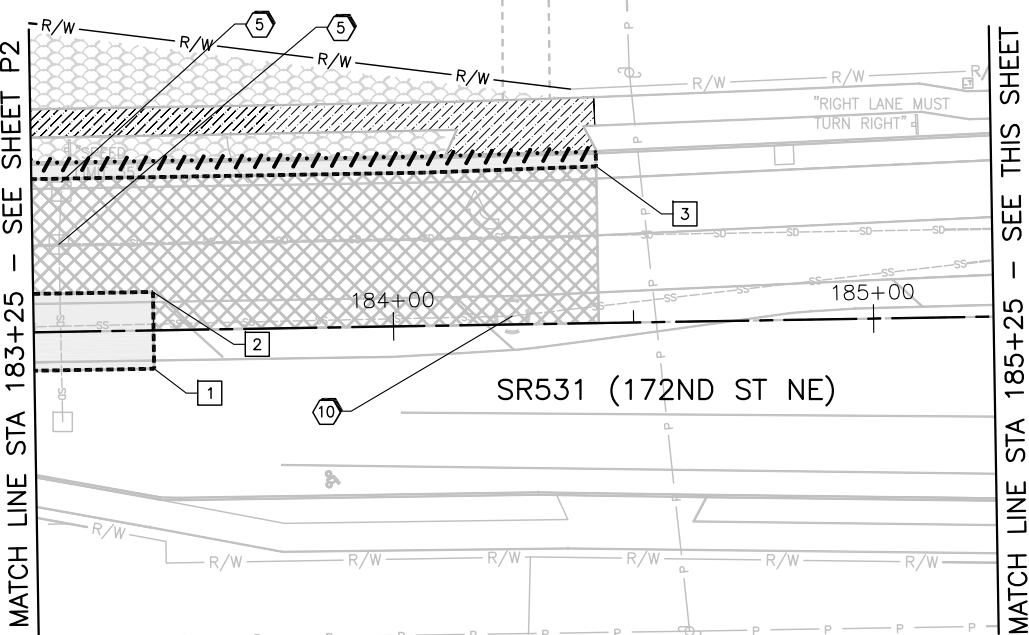
**100% SUBMITTAL
 - NOT FOR
 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 SITE PREPARATION PLAN

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 25.2015.002
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



SAWCUT LIMITS	
	STATION AND OFFSET
1	STA 183+50, 8' RT
2	STA 183+50, 8' LT
3	STA 184+43, 33' LT
4	STA 187+34, 45' LT
5	STA 187+57, 45' LT
6	STA 60+79, 26' LT
7	STA 61+98, 26' LT
8	STA 62+17, 21' LT
9	STA 62+52, 21' LT

GENERAL NOTES:

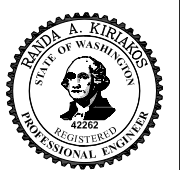
- SEE SIGNING PLAN AND DETAILS FOR SIGN REMOVAL AND RELOCATION.
- REMOVAL AND PULVERIZATION OF EXISTING PAVEMENT SHOWN FOR INFORMATION ONLY. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
- SEE GRADING, UTILITY, AND ILLUMINATION PLANS TO ADJUST UTILITY STRUCTURES.
- ALL EXISTING CHANNELIZATION CONFLICTING WITH PROPOSED CHANNELIZATION ON CHANNELIZATION PLAN SHALL BE REMOVED. TIMING OF REMOVAL IS DEPENDENT ON CONSTRUCTION PHASING.
- NEW ILLUMINATION SYSTEM SHALL BE IN OPERATION PRIOR TO DISRUPTION TO EXISTING SYSTEM.
- SAWCUT LIMITS SHALL BE PERPENDICULAR TO SIDEWALK/ROADWAY LIMITS UNLESS OTHERWISE NOTED.
- SEE GRADING PLAN AND GRADING DETAILS FOR ADDITIONAL PULVERIZING/PAVEMENT LIMIT INFORMATION.

LEGEND:

- REMOVE CURB/CURB & GUTTER
- SAWCUT PAVEMENT
- CLEARING AND GRUBBING
- PAVEMENT PULVERIZING
- PLANING BITUMINOUS PAVEMENT (2")
- REMOVE CEMENT CONCRETE
- REMOVE GRAVEL
- CUT LIMIT
- FILL LIMIT

CONSTRUCTION NOTES:

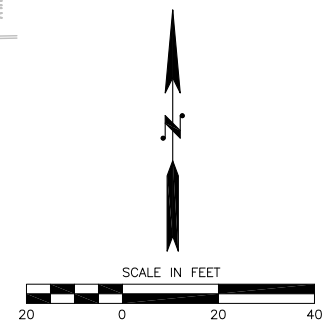
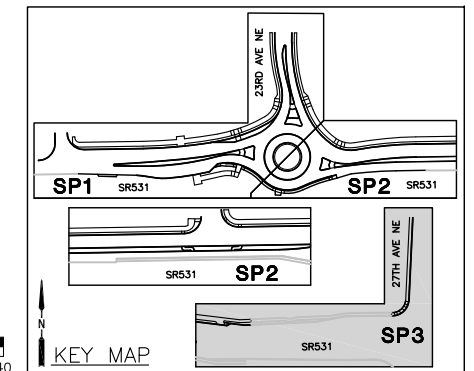
- REMOVE OR RELOCATE UTILITY POLE, BY OTHERS
- RELOCATE/ADJUST TO GRADE TELEPHONE PEDESTAL OR UTILITY BOX, BY OTHERS
- REMOVE FENCE
- REMOVE SERVICE CABINET
- DRAINAGE STRUCTURE - SEE DRAINAGE PLANS FOR REMOVALS/RELOCATIONS OF STRUCTURES AND DRAINAGE PIPES
- REMOVE LUMINAIRE, STREET LIGHT POLE, MAST ARM, FOUNDATION, AND JUNCTION BOX
- REMOVE/RELOCATE WATER METER, BY OTHERS
- SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR RELOCATION/ADJUSTMENT
- RELOCATE EXISTING MAILBOX
- ADJUST SANITARY SEWER MANHOLE TO GRADE



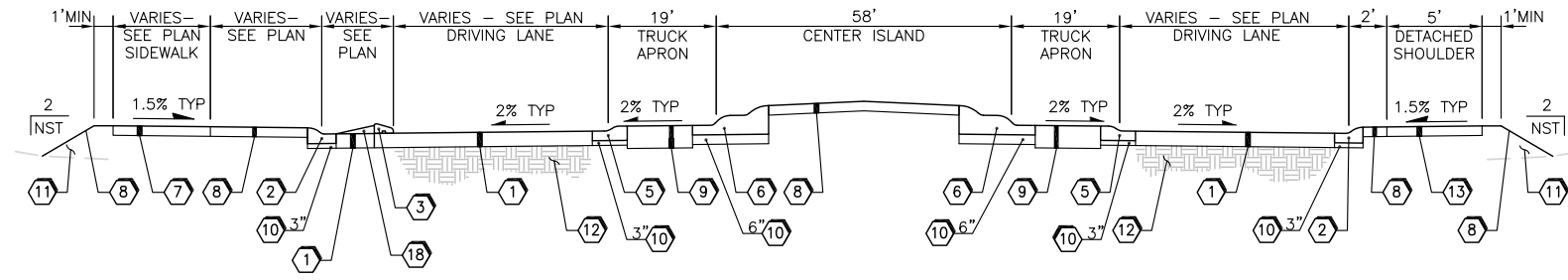
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 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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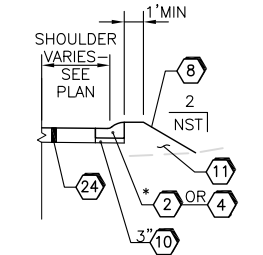
**LAKEWOOD STATION/
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 SITE PREPARATION PLAN



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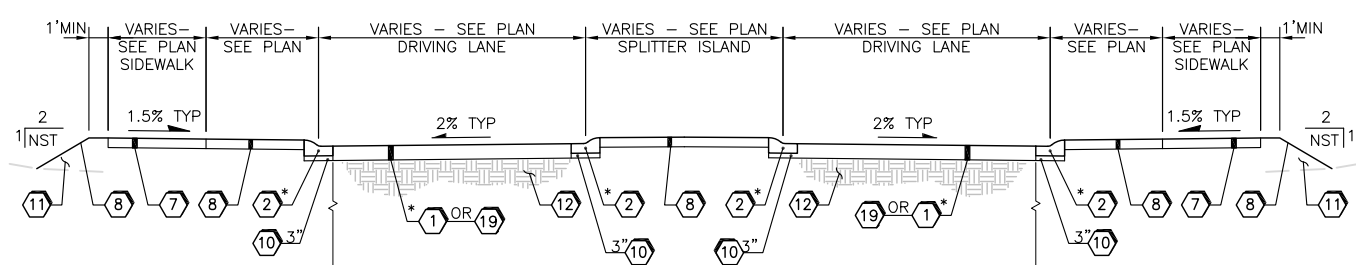


CENTRAL ISLAND - SECTION A
NOT TO SCALE



ALTERNATE EDGE 1 - BUS PULLOUT
NOT TO SCALE

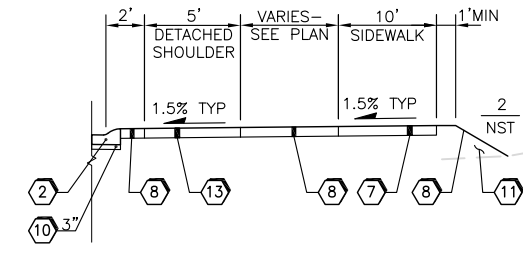
* SEE PAVING PLANS FOR CURB LOCATION AND TRANSITIONS



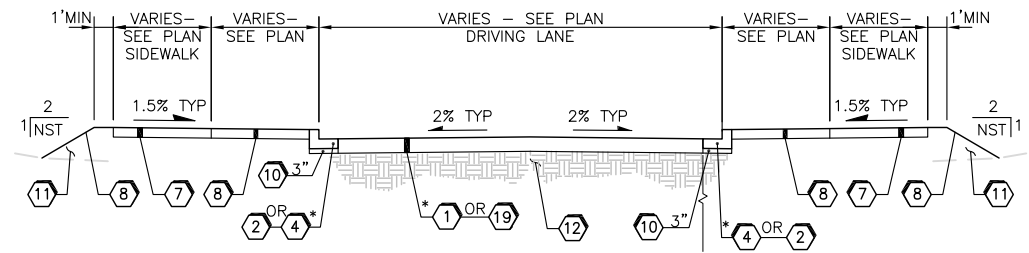
SPLITTER ISLAND - SECTION B
NOT TO SCALE

* SEE PAVING PLANS FOR CURB TRANSITION TO SECTION D AND FULL DEPTH PAVEMENT SECTION TYPE LOCATIONS
ALTERNATE EDGES 1,2,3,4 SEE THIS SHEET

ALTERNATE EDGE 1,5 SEE THIS SHEET

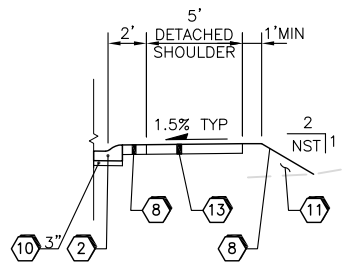


ALTERNATE EDGE 2
NOT TO SCALE

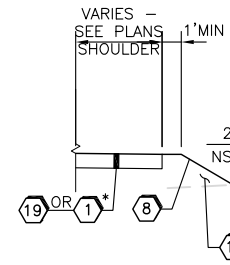


NO SPLITTER ISLAND - SECTION C
NOT TO SCALE

* SEE PAVING PLANS FOR CURB LOCATION AND TRANSITIONS, AND FULL DEPTH PAVEMENT SECTION TYPE LOCATIONS
ALTERNATE EDGE 4,6 SEE THIS SHEET

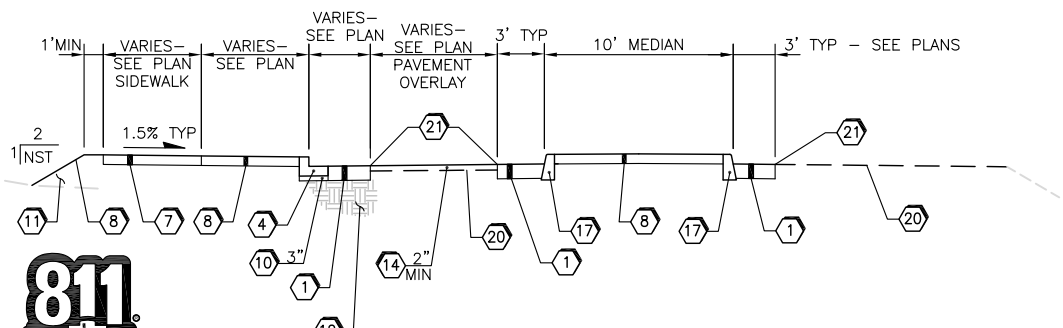


ALTERNATE EDGE 3
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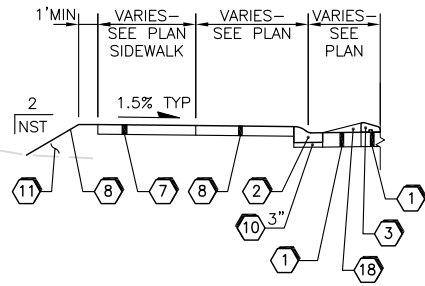


ALTERNATE EDGE 4
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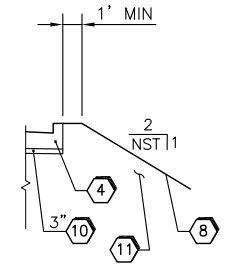
* SEE PAVING PLAN FOR FULL DEPTH PAVEMENT SECTION TYPE LOCATIONS



SR531 MEDIAN - SECTION D
NOT TO SCALE



ALTERNATE EDGE 5
NOT TO SCALE



ALTERNATE EDGE 6
NOT TO SCALE

GENERAL NOTES:

1. SEE GRADING PLAN FOR ADDITIONAL GRADING INFORMATION.
2. SEE PAVING PLAN FOR ADDITIONAL PAVING INFORMATION.
3. SIDEWALKS SHALL BE SLOPED TOWARDS ROADWAY, AND CROSS SLOPES SHALL NOT EXCEED 1.5% UNLESS OTHERWISE NOTED ON PLANS.
4. SEE UTILITY PLAN AND DRAINAGE DETAIL SHEETS FOR DRAINAGE FEATURE LOCATIONS
5. SEE LANDSCAPE PLAN AND DETAILING FOR LANDSCAPING INFORMATION

CONSTRUCTION NOTES:

1. FULL DEPTH PAVEMENT SECTION 1:
2. ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER, CURB 2 PER WSDOT STD PLAN F-10.18-00
3. PRECAST SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.62-02
4. CEMENT CONCRETE TRAFFIC CURB & GUTTER PER WSDOT STD PLAN F-10.12-03
5. ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER, CURB 1 PER WSDOT STD PLAN F-10.18-00
6. ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB, CURB 3 PER WSDOT STD PLAN F-10.18-00
7. CEMENT CONCRETE SIDEWALK

* 6" FOR SIDEWALK AT DRIVEWAY LOCATIONS
8. LANDSCAPE/HARDSCAPE - SEE LANDSCAPE PLANS
9. TRUCK APRON
10. CRUSHED SURFACING BASE COURSE
11. GRAVEL BORROW
12. COMPACTED SUBGRADE
13. ASPHALT DETACHED SHOULDER
14. HMA CL. 1/2 IN. PG 64-22
15. CEMENT CONCRETE
16. TEXTURED CEMENT CONCRETE PAVEMENT PER SPECIFICATIONS
17. CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
18. GRAVEL BACKFILL WITH HMA CAP
19. FULL DEPTH PAVEMENT SECTION 2:
20. EXISTING PAVEMENT
21. SAWCUT - SEE PLANS FOR LOCATIONS
22. MOUNTABLE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
23. CEMENT CONCRETE PAVEMENT
24. CEMENT CONCRETE BUS PULLOUT

NST = NO STEEPER THAN



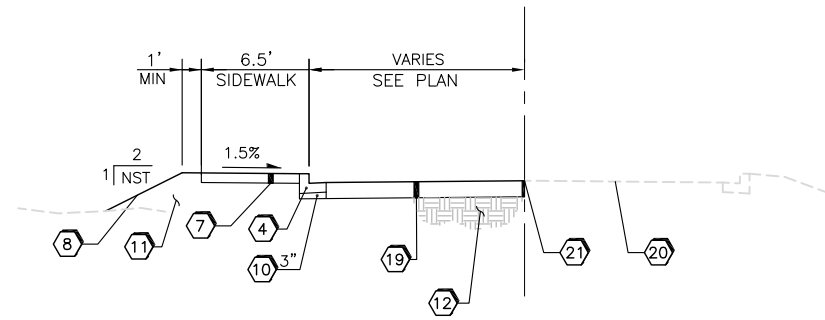
ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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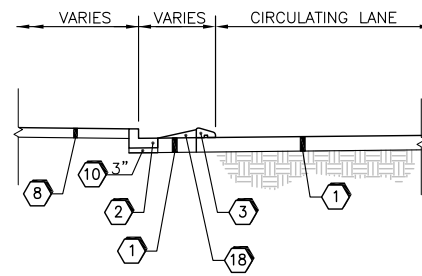
**LAKWOOD STATION/
 SR531 ROUNDABOUT**
 TYPICAL SECTIONS

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 Project No. **SEC2**
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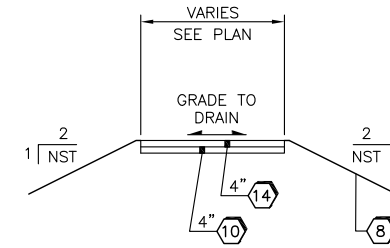




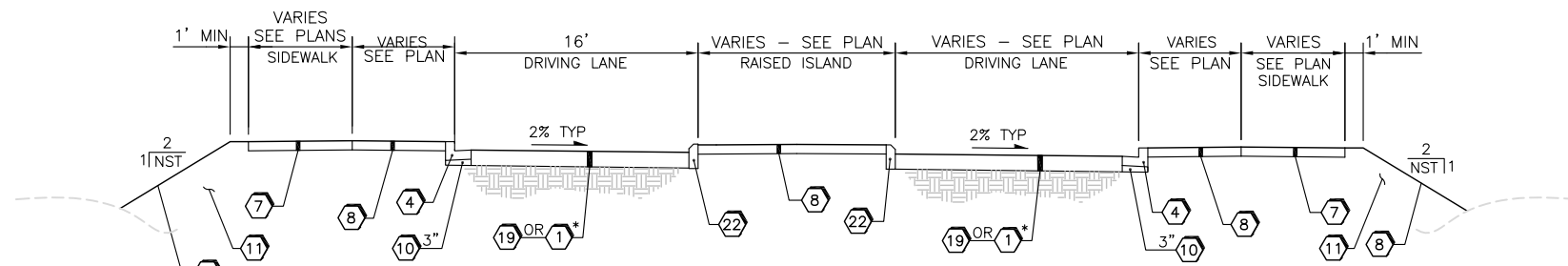
27TH AVE NE - SECTION E
NOT TO SCALE



23RD AVE SPLITTER ISLAND - SECTION G
NOT TO SCALE



ASPHALT DRIVEWAY - SECTION H
NOT TO SCALE



* SEE PAVING PLAN FOR FULL DEPTH PAVEMENT SECTION TYPE LOCATIONS

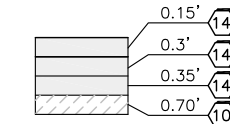
PRIVATE COMMERCIAL DRIVEWAY - SECTION F
NOT TO SCALE

GENERAL NOTES:

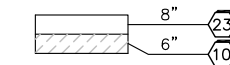
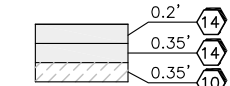
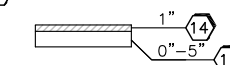
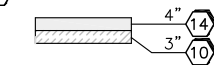
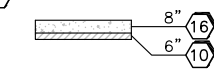
1. SEE GRADING PLAN FOR ADDITIONAL GRADING INFORMATION.
2. SEE PAVING PLAN FOR ADDITIONAL PAVING INFORMATION.
3. SIDEWALKS SHALL BE SLOPED TOWARDS ROADWAY, AND CROSS SLOPES SHALL NOT EXCEED 1.5% UNLESS OTHERWISE NOTED ON PLANS.
4. SEE UTILITY PLAN AND DRAINAGE DETAIL SHEETS FOR DRAINAGE FEATURE LOCATIONS
5. SEE LANDSCAPE PLAN AND DETAILING FOR LANDSCAPING INFORMATION

CONSTRUCTION NOTES:

1 FULL DEPTH PAVEMENT SECTION 1:



- 2 ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER, CURB 2 PER WSDOT STD PLAN F-10.18-00
- 3 PRECAST SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.62-02
- 4 CEMENT CONCRETE TRAFFIC CURB & GUTTER PER WSDOT STD PLAN F-10.12-03
- 5 ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER, CURB 1 PER WSDOT STD PLAN F-10.18-00
- 6 ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB, CURB 3 PER WSDOT STD PLAN F-10.18-00
- 7 CEMENT CONCRETE SIDEWALK
- 8 LANDSCAPE/HARDSCAPE - SEE LANDSCAPE PLANS
- 9 TRUCK APRON
- 10 CRUSHED SURFACING BASE COURSE
- 11 GRAVEL BORROW
- 12 COMPACTED SUBGRADE
- 13 ASPHALT DETACHED SHOULDER
- 14 HMA CL. 1/2 IN. PG 64-22
- 15 CEMENT CONCRETE
- 16 TEXTURED CEMENT CONCRETE PAVEMENT PER SPECIFICATIONS
- 17 CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- 18 GRAVEL BACKFILL WITH HMA CAP
- 19 FULL DEPTH PAVEMENT SECTION 2:
- 20 EXISTING PAVEMENT
- 21 SAWCUT - SEE PLANS FOR LOCATIONS
- 22 MOUNTABLE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- 23 CEMENT CONCRETE PAVEMENT
- 24 CEMENT CONCRETE BUS PULLOUT



NST = NO STEEPER THAN



ENGINEER: RAK
DESIGNED BY: RP
DRAWN BY: KGH
CHECKED BY: XXX
DATE: XXX

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**LAKEWOOD STATION/
SR531 ROUNDABOUT**
TYPICAL SECTIONS



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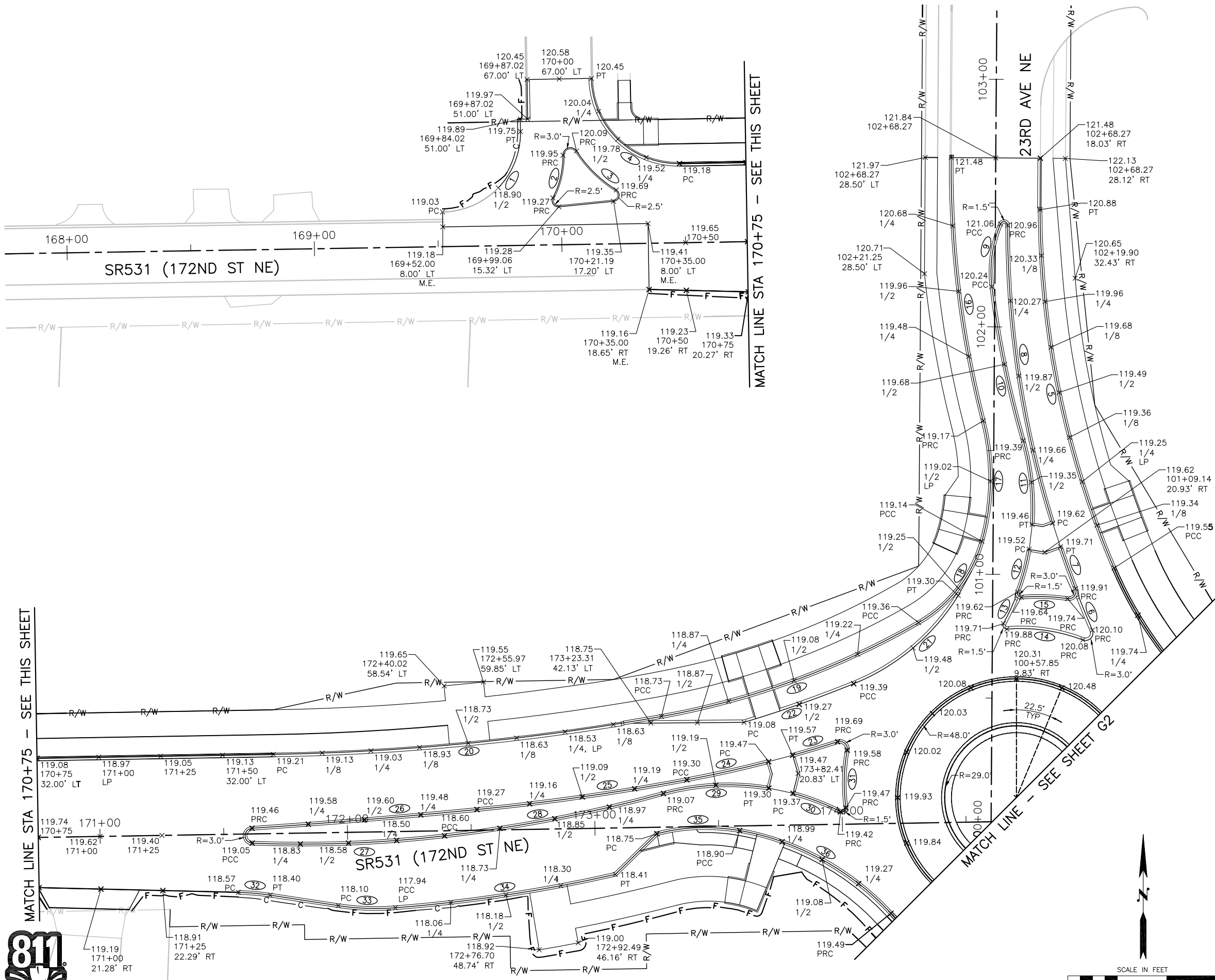
Project No.

SEC3

Sheet No.
13 OF 55



Know what's below.
Call before you dig.



- GENERAL NOTES:**
- SPOT ELEVATIONS LOCATED ON CURB LINES ARE AT FLOWLINE, FACE OF CURB UNLESS OTHERWISE NOTED.
 - SEE SHEET G4 FOR CURVE INFORMATION.
 - SEE SHEETS GD1-GD2 FOR GRADING OF RAMPS AND DRIVEWAYS.

- LEGEND:**
- (X) CURVE ID
 - x 123.45 SPOT ELEVATION, FINISHED GRADE
 - M.E. MATCH EXISTING
 - 1/2 1/2 DELTA OF CURVE OR 1/2 POINT ALONG LINE SEGMENT
 - 1/4 1/4 DELTA OF CURVE OR 1/4 POINT ALONG LINE SEGMENT
 - 1/8 1/8 DELTA OF CURVE OR 1/8 POINT ALONG LINE SEGMENT
 - LP LOW POINT
 - C CUT LIMIT
 - F FILL LIMIT



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

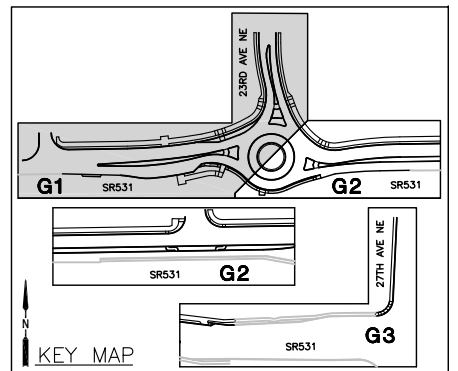
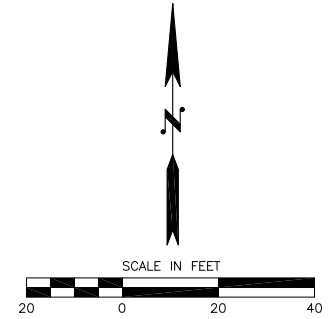
**100% SUBMITTAL
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 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT
 GRADING PLAN**

MATCH LINE STA 170+75 - SEE THIS SHEET

MATCH LINE STA 170+75 - SEE THIS SHEET

MATCH LINE - SEE SHEET G2



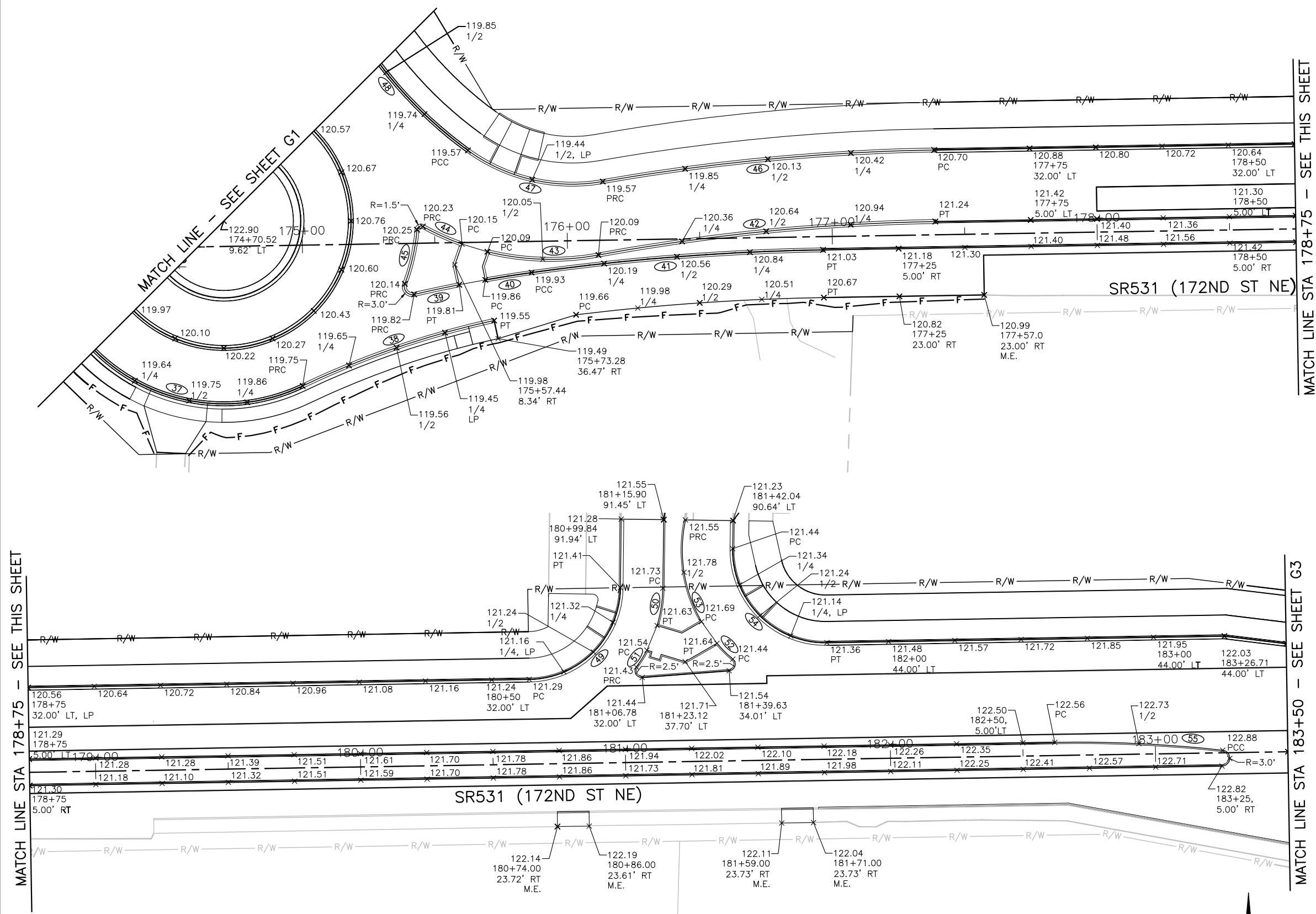
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 Project No. G1
 Sheet No. 14 OF 55

GENERAL NOTES:

1. SPOT ELEVATIONS LOCATED ON CURB LINES ARE AT FLOWLINE, FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE SHEET G4 FOR CURVE INFORMATION.
3. SEE SHEETS GD1-GD2 FOR GRADING OF RAMPS AND DRIVEWAYS.

LEGEND:

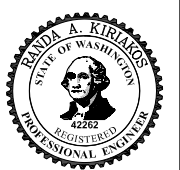
(X)	CURVE ID
X 123.45	SPOT ELEVATION, FINISHED GRADE
M.E.	MATCH EXISTING
1/2	1/2 DELTA OF CURVE OR 1/2 POINT ALONG LINE SEGMENT
1/4	1/4 DELTA OF CURVE OR 1/4 POINT ALONG LINE SEGMENT
1/8	1/8 DELTA OF CURVE OR 1/8 POINT ALONG LINE SEGMENT
LP	LOW POINT
— C —	CUT LIMIT
— F —	FILL LIMIT



MATCH LINE STA 178+75 - SEE THIS SHEET

MATCH LINE STA 178+75 - SEE THIS SHEET

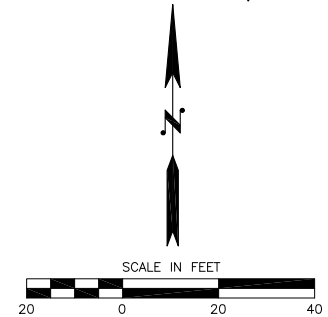
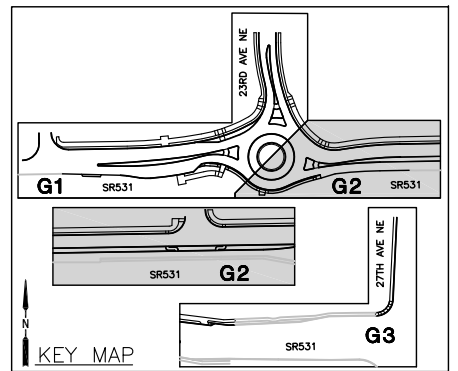
MATCH LINE STA 183+50 - SEE SHEET G3



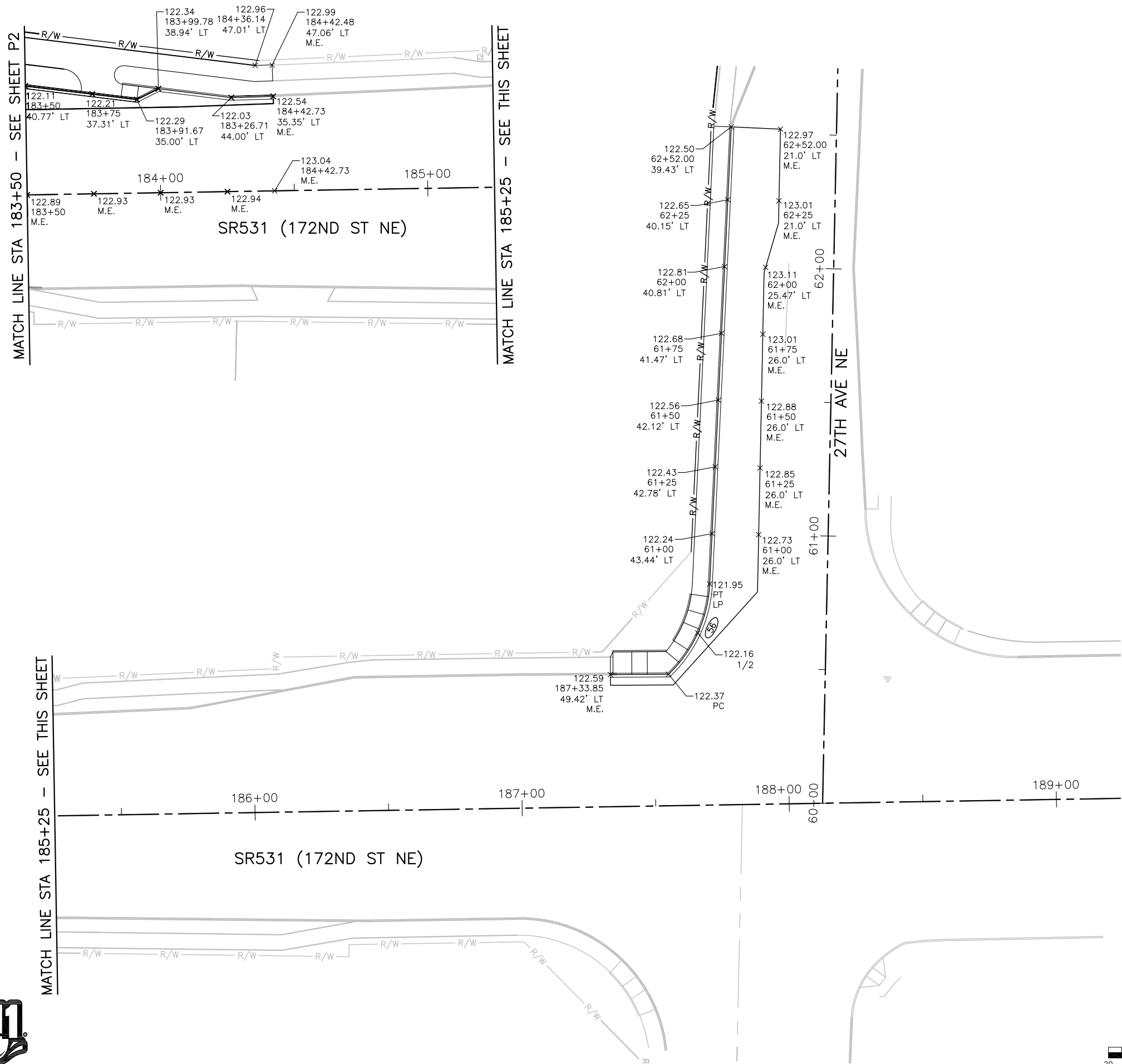
ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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**LAKEWOOD STATION/
 SR531 ROUNDABOUT
 GRADING PLAN**



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 Project No. 25.2015.002
G2
 Sheet No. 15 OF 55



GENERAL NOTES:

1. SPOT ELEVATIONS LOCATED ON CURB LINES ARE AT FLOWLINE, FACE OF CURB UNLESS OTHERWISE NOTED.
2. SEE SHEET G4 FOR CURVE INFORMATION.
3. SEE SHEETS GD1-GD2 FOR GRADING OF RAMPS AND DRIVEWAYS.

LEGEND:

- (X) CURVE ID
- X 123.45 SPOT ELEVATION, FINISHED GRADE
- M.E. MATCH EXISTING
- 1/2 1/2 DELTA OF CURVE OR 1/2 POINT ALONG LINE SEGMENT
- 1/4 1/4 DELTA OF CURVE OR 1/4 POINT ALONG LINE SEGMENT
- 1/8 1/8 DELTA OF CURVE OR 1/8 POINT ALONG LINE SEGMENT
- LP LOW POINT
- C CUT LIMIT
- F FILL LIMIT



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 GRADING PLAN

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25.2015.002

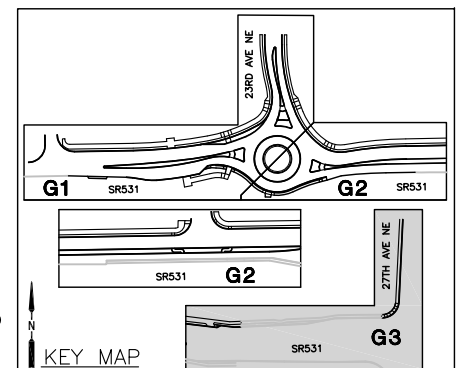
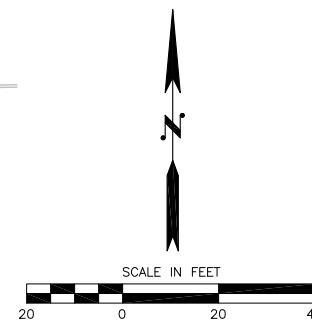
Project No.

G3

Sheet No.
 16 OF 55



Know what's below.
 Call before you dig.



GENERAL NOTES:

1. SEE SHEETS G1-G3 FOR CORRESPONDING CURVES.

CURVE TABLE -- SHEET G1						CENTER POINT	
CURVE	LENGTH	RADIUS	DELTA	TANGENT	STATION, OFFSET	STATION, OFFSET	STATION, OFFSET
1	50.29	32.00	90°02'39"	32.02	PC STA 169+52.00, 14.01' LT	PT STA 169+84.02, 46.01' LT	STA 169+52.02, 46.01' LT
2	17.90	36.00	28°29'24"	9.14	PRC STA 170+01.02, 36.17' LT	PRC STA 169+96.65, 19.00' LT	STA 169+65.02, 36.20' LT
3	22.63	52.00	24°55'57"	11.50	PRC STA 170+22.33, 21.79' LT	PRC STA 170+06.56, 37.76' LT	STA 170+50.59, 65.44' LT
4	54.98	35.00	90°00'01"	35.00	PC STA 170+48.02, 32.00' LT	PT STA 170+13.02, 67.00' LT	STA 170+48.02, 67.00' LT
5	148.81	375.00	22°44'13"	75.40	PCC STA 101+02.90, 48.93' RT	PT STA 102+47.47, 18.03' RT	STA 102+52.03, 393.00' RT
6	13.93	501.00	1°35'36"	6.97	PRC STA 100+77.74, 40.38' RT	PT STA 100+90.60, 35.02' RT	STA 102+77.12, 500.00' RT
7	18.03	501.00	2°03'43"	9.02	PRC STA 100+94.47, 33.48' RT	PT STA 101+11.37, 27.21' RT	STA 102+77.12, 500.00' RT
8	122.16	401.00	17°27'18"	61.56	PC STA 101+20.86, 24.05' RT	PRC STA 102+41.05, 5.01' RT	STA 102+43.00, 406.00' RT
9	25.90	50.00	29°40'42"	13.25	PCC STA 102+41.61, 2.12' RT	PCC STA 102+16.22, 1.22' LT	STA 102+22.63, 48.37' RT
10	63.58	398.50	9°08'31"	31.86	PCC STA 102+16.22, 1.22' LT	PRC STA 101+54.08, 11.92' RT	STA 102+67.27, 394.00' RT
11	34.37	98.00	20°05'41"	17.36	PRC STA 101+54.08, 11.92' RT	PT STA 101+20.10, 15.76' RT	STA 101+26.24, 82.05' LT
12	17.89	98.00	10°27'34"	8.97	PC STA 101+10.15, 14.62' RT	PRC STA 100+92.87, 10.10' RT	STA 101+26.24, 82.05' LT
13	10.81	98.00	6°19'17"	5.41	PC STA 100+89.91, 8.97' RT	PRC STA 100+80.11, 4.42' RT	STA 101+26.24, 82.05' LT
14	31.25	71.00	25°13'08"	15.88	PRC STA 100+77.91, 5.87' RT	PRC STA 100+73.74, 36.58' RT	STA 174+72.18, 6.89' LT
15	18.68	82.00	13°03'06"	9.38	PRC STA 100+90.87, 11.64' RT	PRC STA 100+90.40, 30.27' RT	STA 174+79.25, 8.74' LT
16	107.41	412.00	14°56'14"	54.01	PRC STA 101+62.04, 4.33' LT	PT STA 102+68.27, 18.00' LT	STA 102+67.27, 394.00' RT
17	49.29	94.00	30°02'33"	25.22	PRC STA 101+62.04, 4.33' LT	PCC STA 101+13.32, 4.52' LT	STA 101+38.03, 95.22' LT
18	42.69	55.00	44°28'29"	22.49	PCC STA 101+13.32, 4.52' LT	PCC STA 100+80.28, 29.85' LT	STA 101+27.78, 57.59' LT
19	111.16	324.00	19°39'25"	56.13	PCC STA 100+80.28, 29.85' LT	PCC STA 173+27.64, 44.75' LT	STA 172+75.39, 364.51' LT
20	157.76	974.00	9°16'49"	79.05	PC STA 171+70.57, 32.00' LT	PCC STA 173+27.64, 44.75' LT	STA 171+70.57, 1006.00' LT
21	56.22	89.00	36°11'42"	29.09	PCC STA 174+05.52, 56.67' LT	PT STA 100+91.33, 13.91' LT	STA 101+37.62, 89.93' LT
22	47.02	499.00	5°23'54"	23.53	PC STA 173+60.93, 41.81' LT	PCC STA 174+05.52, 56.67' LT	STA 172+25.66, 522.13' LT
23	19.03	501.00	2°10'33"	9.51	PRC STA 173+98.65, 33.36' LT	PT STA 173+80.34, 28.21' LT	STA 172+53.94, 513.00' LT
24	33.85	501.00	3°52'15"	16.93	PC STA 173+70.63, 25.78' LT	PCC STA 173+37.48, 19.01' LT	STA 172+53.94, 513.00' LT
25	85.71	1001.00	4°54'22"	42.88	PCC STA 173+37.48, 19.01' LT	PCC STA 172+52.46, 8.36' LT	STA 171+70.57, 1006.00' LT
26	91.23	3001.00	1°44'30"	45.62	PCC STA 172+52.46, 8.36' LT	PRC STA 171+61.44, 2.28' LT	STA 170+06.94, 2999.30' LT
27	77.87	500.00	8°55'24"	39.01	PCC STA 171+61.42, 3.72' RT	PCC STA 172+39.20, 2.05' RT	STA 171+89.63, 495.49' RT
28	90.18	599.00	8°37'34"	45.18	PCC STA 172+39.20, 2.05' RT	PRC STA 173+27.92, 13.60' LT	STA 171+79.81, 594.00' LT
29	42.95	100.00	24°36'39"	21.81	PRC STA 173+27.92, 13.60' LT	PT STA 173+70.52, 15.10' LT	STA 173+52.65, 83.29' RT
30	20.65	100.00	11°50'01"	10.36	PC STA 173+80.26, 12.82' LT	PRC STA 173+99.39, 5.11' LT	STA 173+52.65, 83.29' RT
31	23.38	72.00	18°36'26"	11.80	PRC STA 174+01.58, 6.62' LT	PRC STA 174+02.46, 29.89' LT	STA 174+73.02, 15.56' LT
32	12.87	100.00	7°22'36"	6.45	PC STA 171+55.56, 23.52' RT	PT STA 171+68.36, 24.87' RT	STA 171+51.52, 123.44' RT
33	23.15	100.00	13°15'49"	11.63	PC STA 171+95.77, 29.55' RT	PCC STA 172+18.84, 30.78' RT	STA 172+12.60, 69.02' LT
34	90.00	626.00	8°14'15"	45.08	PCC STA 172+18.84, 30.78' RT	PT STA 173+07.95, 18.74' RT	STA 171+79.81, 594.00' LT
35	33.73	79.00	24°27'58"	17.13	PC STA 173+25.03, 2.58' RT	PCC STA 173+58.50, 1.87' RT	STA 173+43.40, 79.41' RT
36	70.88	109.00	37°15'26"	36.74	PCC STA 173+58.50, 1.87' RT	PRC STA 174+19.02, 36.31' RT	STA 173+37.67, 108.86' RT

CURVE TABLE -- SHEET G2						CENTER POINT	
CURVE	LENGTH	RADIUS	DELTA	TANGENT	STATION, OFFSET	STATION, OFFSET	STATION, OFFSET
37	87.75	69.00	72°52'09"	50.94	PRC STA 174+19.02, 36.31' RT	PRC STA 174+99.24, 53.12' RT	STA 174+70.52, 9.61' LT
38	76.56	329.00	13°19'56"	38.45	PRC STA 174+99.24, 53.12' RT	PT STA 175+71.91, 29.61' RT	STA 176+36.18, 352.27' RT
39	17.44	501.00	1°59'40"	8.72	PRC STA 175+41.85, 19.28' RT	PT STA 175+58.96, 15.90' RT	STA 176+47.56, 509.00' RT
40	17.67	501.00	2°01'14"	8.83	PC STA 175+68.82, 14.22' RT	PCC STA 175+86.31, 11.76' RT	STA 176+47.56, 509.00' RT
41	110.42	901.00	7°01'18"	55.28	PCC STA 175+86.31, 11.76' RT	PT STA 176+96.46, 5.00' RT	STA 176+96.46, 906.00' RT
42	127.89	774.00	9°28'03"	64.09	PRC STA 176+11.68, 5.54' RT	PT STA 177+39.00, 5.00' LT	STA 177+39.00, 769.00' RT
43	42.23	100.00	24°11'54"	21.44	PC STA 175+69.80, 3.62' RT	PRC STA 176+11.68, 5.54' RT	STA 175+95.23, 93.10' LT
44	16.22	100.00	9°17'28"	8.13	PC STA 175+60.26, 0.59' RT	PRC STA 175+45.60, 6.28' LT	STA 175+95.23, 93.10' LT
45	21.04	77.00	15°39'13"	10.58	PRC STA 175+43.36, 5.13' LT	PRC STA 175+38.42, 15.25' RT	STA 174+66.75, 12.90' LT
46	125.76	801.00	8°59'45"	63.01	PC STA 177+39.00, 32.00' LT	PRC STA 176+13.75, 22.15' LT	STA 177+39.00, 769.00' RT
47	53.62	67.00	45°51'04"	28.34	PRC STA 176+13.75, 22.15' LT	PCC STA 175+63.08, 34.71' LT	STA 176+03.27, 88.32' LT
48	85.64	158.00	31°03'16"	43.90	PCC STA 175+63.08, 34.71' LT	PCC STA 101+02.90, 48.93' RT	STA 176+57.85, 161.14' LT
49	54.01	35.00	88°24'40"	34.04	PC STA 180+64.14, 32.00' LT	PT STA 180+99.12, 66.03' LT	STA 180+64.14, 67.00' LT
50	14.33	51.00	16°05'39"	7.21	PC STA 181+15.12, 65.58' LT	PT STA 181+12.65, 51.51' LT	STA 180+64.14, 67.00' LT
51	7.49	51.00	8°25'00"	3.75	PC STA 181+08.67, 42.29' LT	PRC STA 181+04.65, 36.02' LT	STA 180+64.14, 67.00' LT
52	8.47	54.00	8°59'15"	4.24	PRC STA 181+41.04, 38.39' LT	PT STA 181+35.14, 44.44' LT	STA 181+76.70, 79.00' LT
53	39.75	54.00	42°10'50"	20.83	PC STA 181+29.45, 52.72' LT	PRC STA 181+24.10, 91.20' LT	STA 181+76.70, 79.00' LT
54	56.04	35.00	91°43'58"	36.07	PC STA 181+41.72, 80.06' LT	PT STA 181+76.70, 44.00' LT	STA 181+76.70, 79.00' LT
55	63.48	500.00	7°16'27"	31.78	PC STA 182+61.99, 5.00' LT	PCC STA 183+25.30, 0.98' LT	STA 182+62.07, 495.00' RT

CURVE TABLE -- SHEET G3						CENTER POINT	
	LENGTH	RADIUS	DELTA	TANGENT	STATION, OFFSET	STATION, OFFSET	STATION, OFFSET
56	38.07	50.00	43°37'24"	20.01	PC STA 187+55.61, 49.21' LT	PT STA 60+81.19, 43.93' LT	STA 187+21.67, 85.93' LT



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

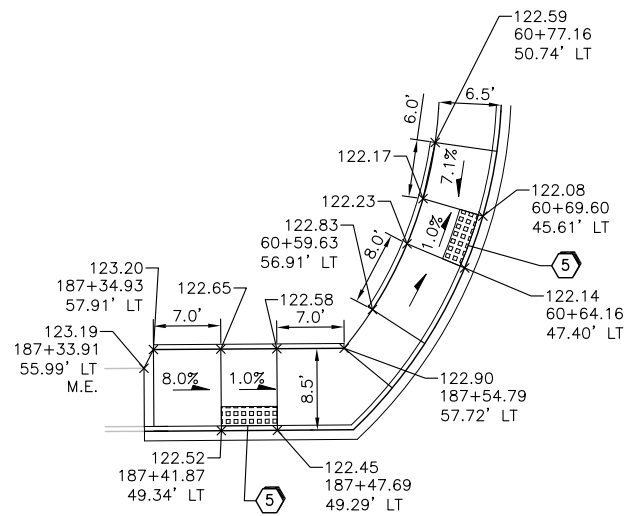
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 SR531 ROUNDABOUT**
 GRADING CURVE TABLES

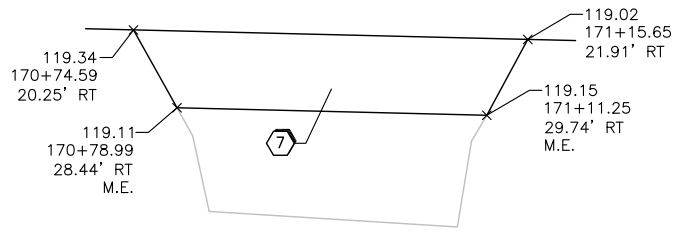
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 Everett, Washington 98204
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 Project No. 25.2015.002
G4
 Sheet No. 17 OF 55



Know what's below.
 Call before you dig.



M **N** SIDEWALK RAMP
NOT TO SCALE



P DRIVEWAY
NOT TO SCALE

GENERAL NOTES:

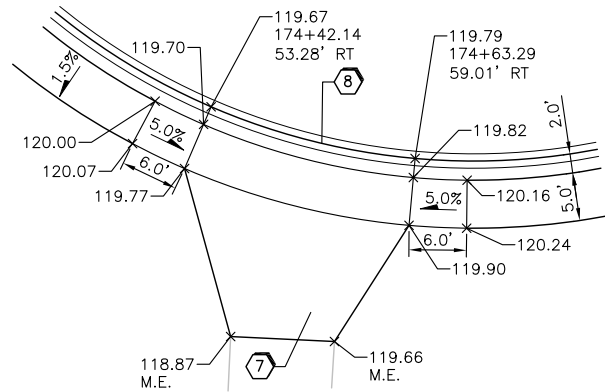
1. SPOT ELEVATIONS LOCATED ON CURB LINES ARE AT FLOWLINE, FACE OF CURB UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- 1 CEMENT CONCRETE CURB RAMP TYPE COMBINATION PER WSDOT STD PLAN F-40.14-02
- 2 CEMENT CONCRETE BIKE RAMP PER DETAIL ON SHEET MD1
- 3 ASPHALT SHOULDER RAMP PER DETAIL ON SHEET MD1
- 4 CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR B PER WSDOT STD PLAN F-40.15-02
- 5 CEMENT CONCRETE CURB RAMP TYPE PARALLEL A PER WSDOT STD PLAN F-40.12-02
- 6 CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION CURB RAMP PER WSDOT STD PLAN F-40.16-02
- 7 ASPHALT DRIVEWAY PER SECTION ON SHEET SEC3
- 8 CEMENT CONCRETE DRIVEWAY TYPE 1 PER WSDOT STD PLAN F-80.10-03

LEGEND:

- x 123.45 SPOT ELEVATION, FINISHED GRADE
- BOC BACK OF CURB



Q DRIVEWAY
NOT TO SCALE



ENGINEER:	RAK
DESIGNED BY:	RP
DRAWN BY:	KGH
CHECKED BY:	XXX
DATE:	XXX

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GRADING DETAILS

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Project No.

GD2

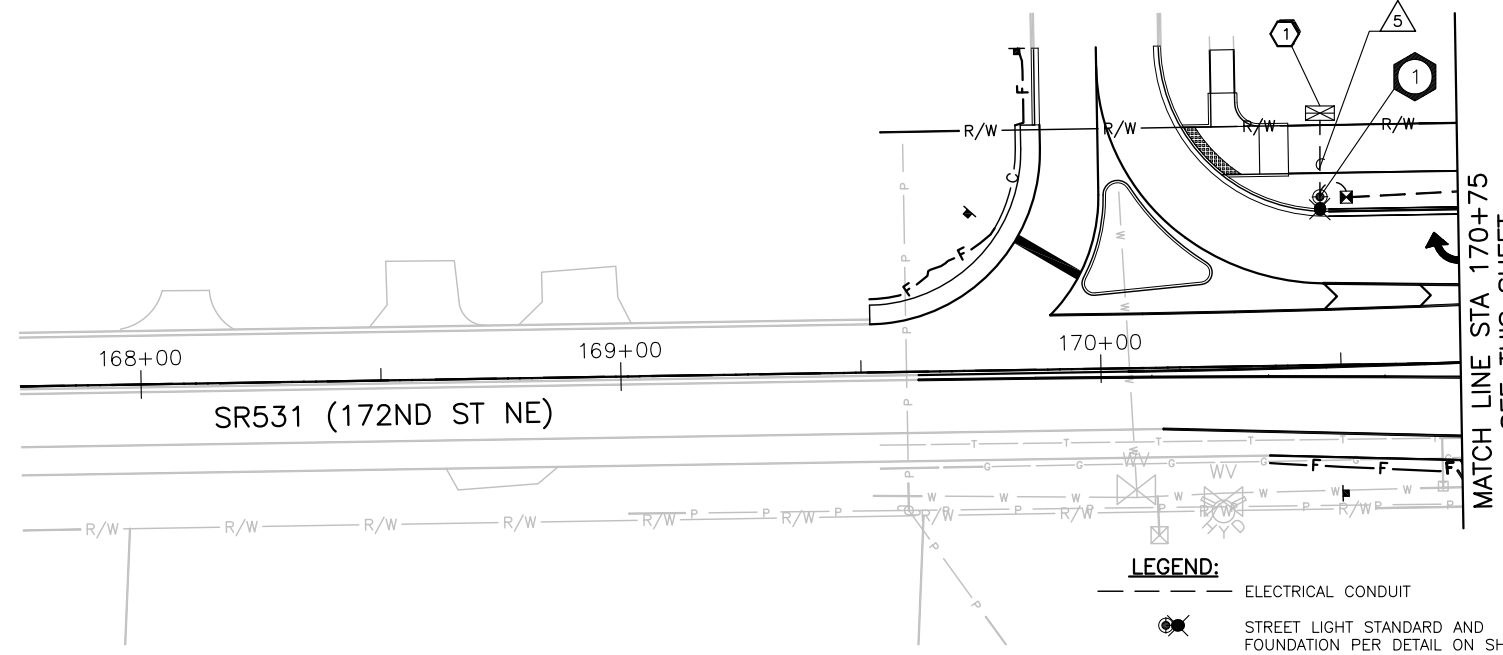
Sheet No.

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Know what's below.
Call before you dig.

MATCH LINE STA 103+25 - SEE SHEET IL4



MATCH LINE STA 170+75 - SEE THIS SHEET

- LEGEND:**
- ELECTRICAL CONDUIT
 - ⊗ STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
 - ⊠ TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
 - ⊡ TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
 - ⊘ ROADWAY LIGHT IDENTIFICATION NUMBER
 - △ CONDUIT RUN NUMBER
 - SD EXISTING STORM DRAIN PIPE
 - PROPOSED STORM DRAIN PIPE
 - PROPOSED TREE PER LANDSCAPE PLAN
 - ⊞ ELECTRICAL SERVICE CABINET
 - ⊞ TRANSFORMER
 - STORM DRAIN STRUCTURE
 - ⊙ PUD UTILITY POLE, BY OTHERS
 - ⊙ MAST ARM WITH LUMINAIRE

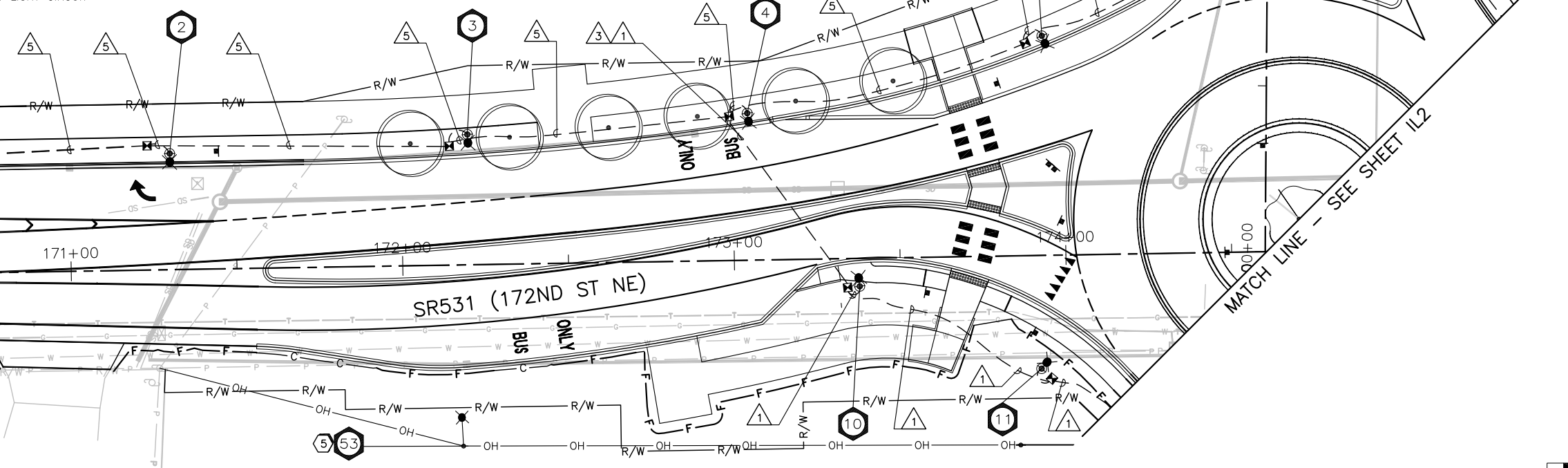
GENERAL NOTES:

1. LUMINAIRE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
2. CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR CONDUITS AND JUNCTION BOXES SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
3. CONDUIT SHALL BE SCHEDULE 40 PVC. CONDUIT CROSSING ROADWAYS OR DRIVEWAYS SHALL BE SCHEDULE 80 PVC.
4. SEE DRAINAGE AND SEWER PLAN SHEETS.
5. SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
6. SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
7. SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

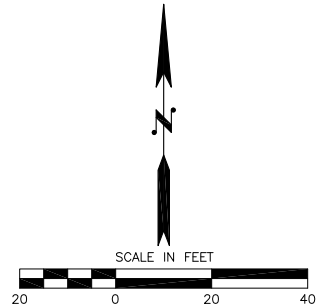
CONSTRUCTION NOTES:

- 1 SERVICE CABINET TYPE D, BY OTHERS (VINTAGE AT LAKEWOOD PROJECT)
- 2 CONNECT TO SPARE CIRCUIT BREAKER AT EXISTING 17309 27TH AVE NE SERVICE.
- 3 SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-3C
- 4 INSTALL TRANSFORMER, BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)
- 5 PROPOSED PUD UTILITY POLE BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)

MATCH LINE STA 170+75 - SEE THIS SHEET



MATCH LINE - SEE SHEET IL2



ENGINEER:	RAK
DESIGNED BY:	RAK
DRAWN BY:	KGH
CHECKED BY:	XXX
DATE:	XXX

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Sheet No. **IL1**
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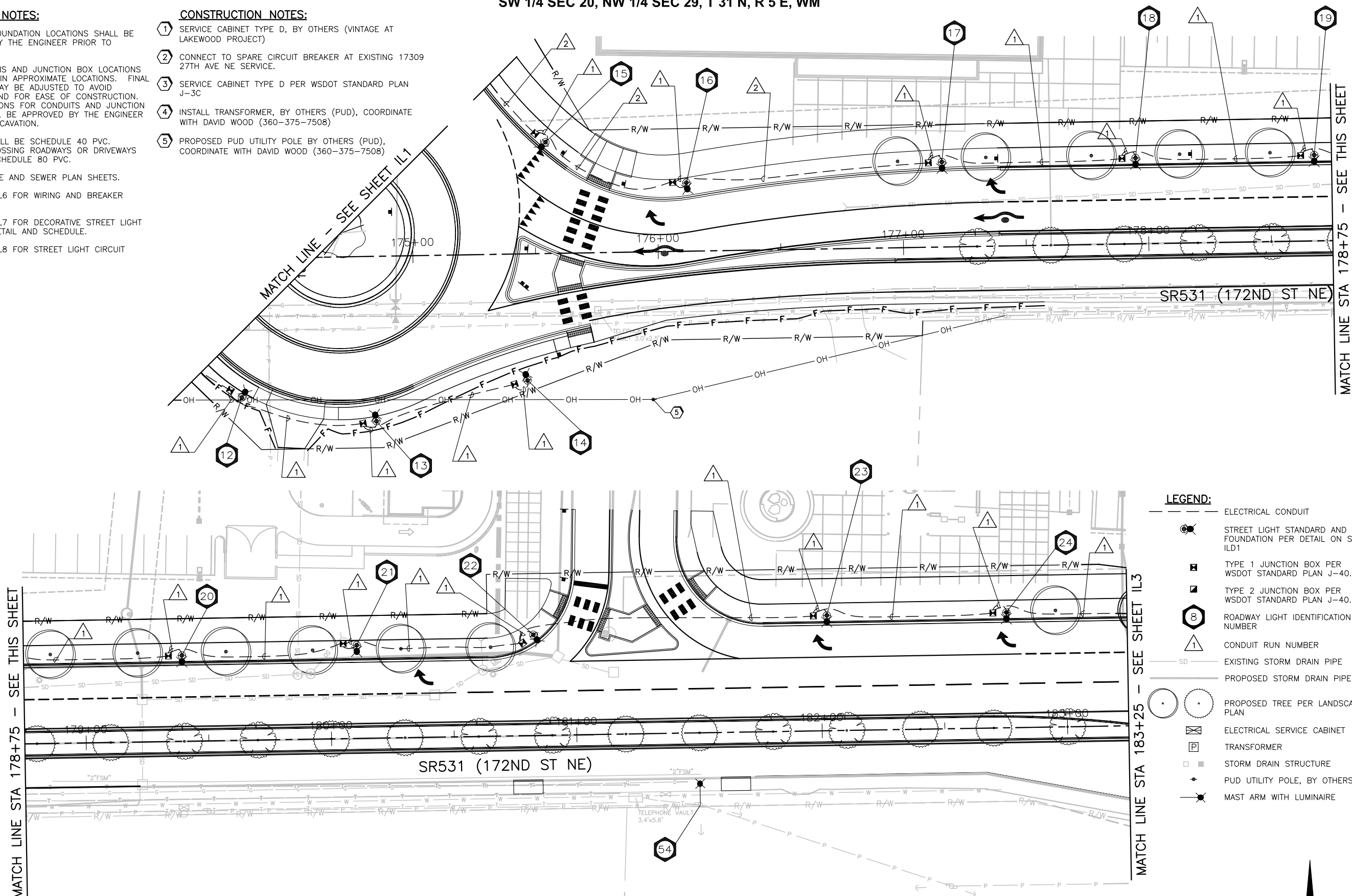
SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

GENERAL NOTES:

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- SEE DRAINAGE AND SEWER PLAN SHEETS.
- SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
- SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
- SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

CONSTRUCTION NOTES:

- SERVICE CABINET TYPE D, BY OTHERS (VINTAGE AT LAKEWOOD PROJECT)
- CONNECT TO SPARE CIRCUIT BREAKER AT EXISTING 17309 27TH AVE NE SERVICE.
- SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-3C
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- PROPOSED PUD UTILITY POLE BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)



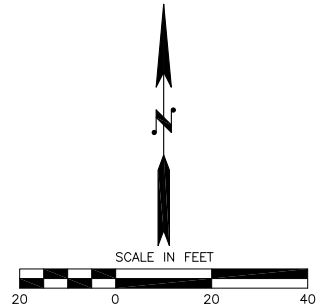
- LEGEND:**
- ELECTRICAL CONDUIT
 - STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
 - TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
 - TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
 - ROADWAY LIGHT IDENTIFICATION NUMBER
 - CONDUIT RUN NUMBER
 - EXISTING STORM DRAIN PIPE
 - PROPOSED STORM DRAIN PIPE
 - PROPOSED TREE PER LANDSCAPE PLAN
 - ELECTRICAL SERVICE CABINET
 - TRANSFORMER
 - STORM DRAIN STRUCTURE
 - PUD UTILITY POLE, BY OTHERS
 - MAST ARM WITH LUMINAIRE



ENGINEER: RAK
 DESIGNED BY: RAK
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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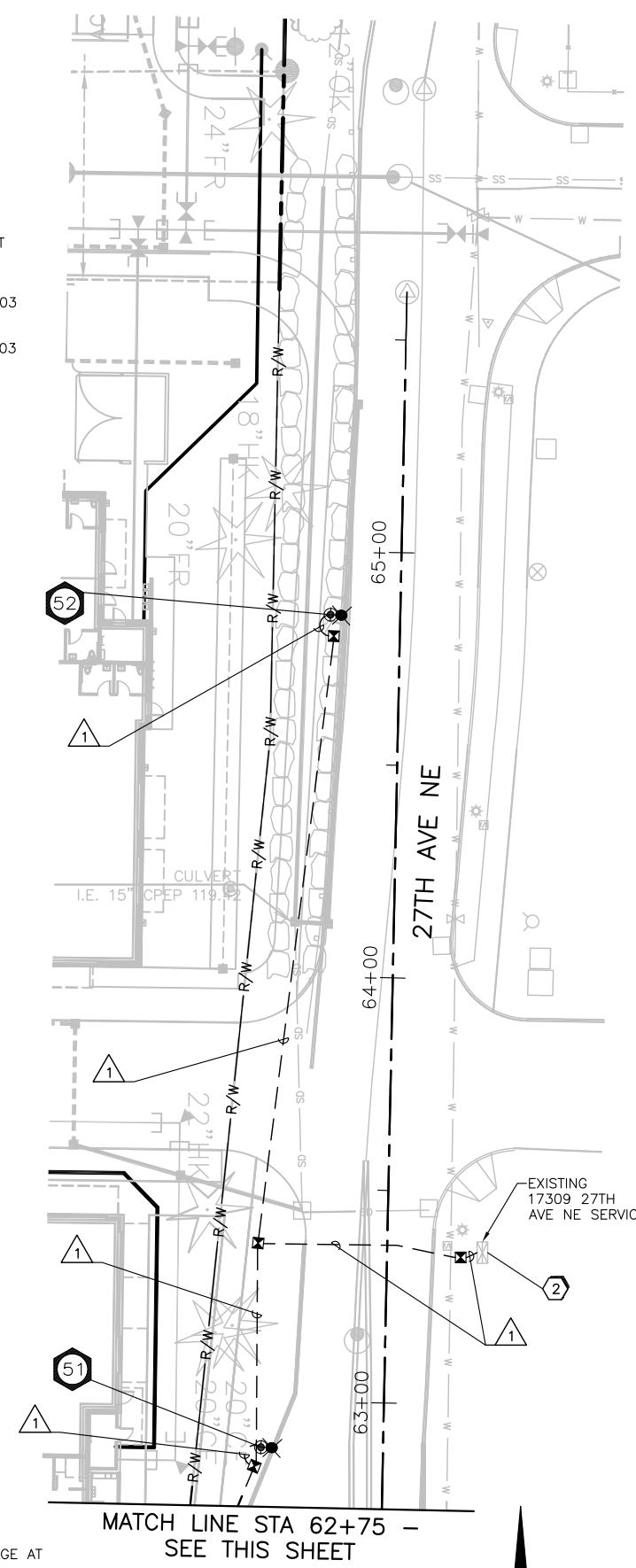
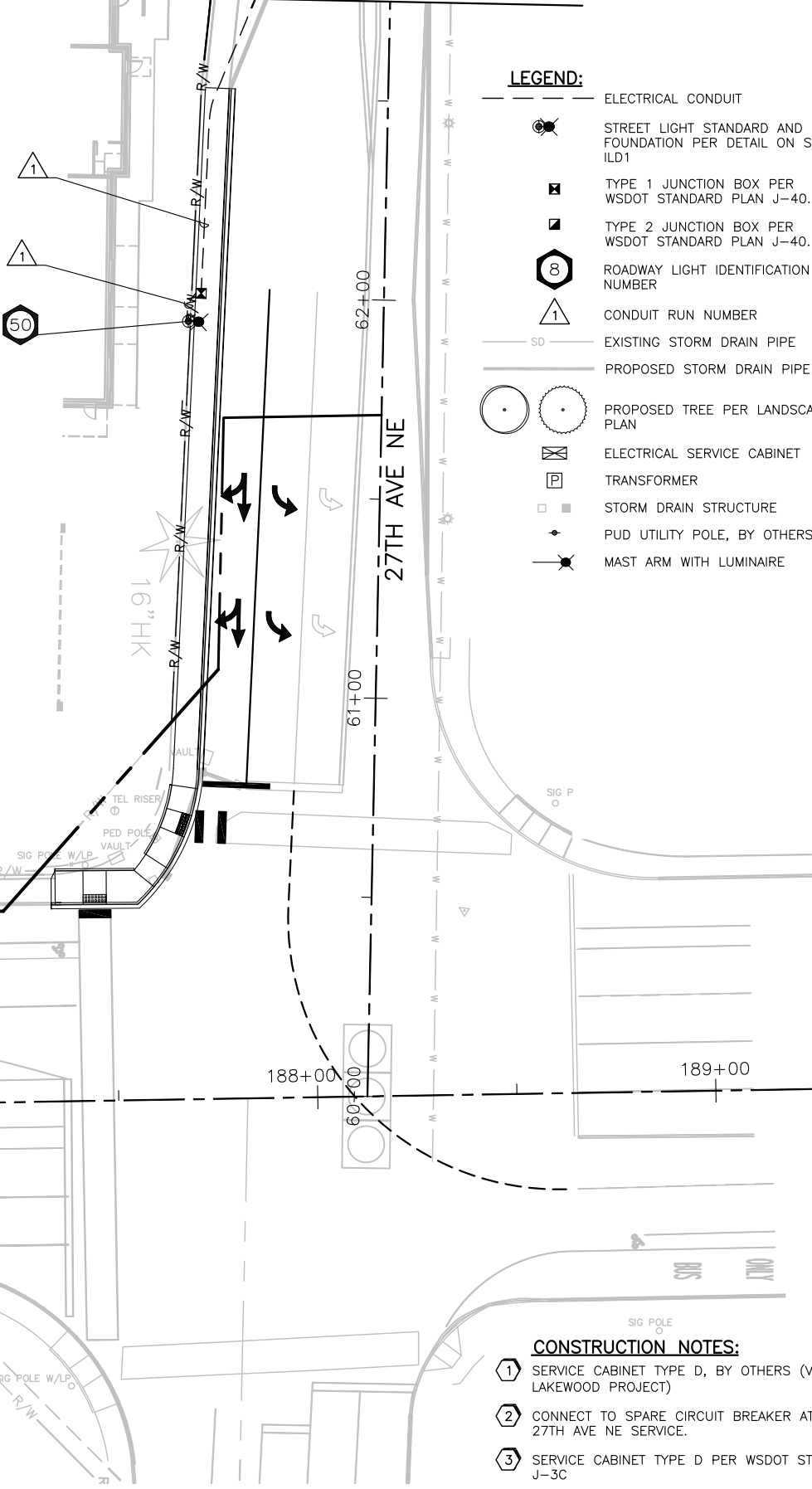
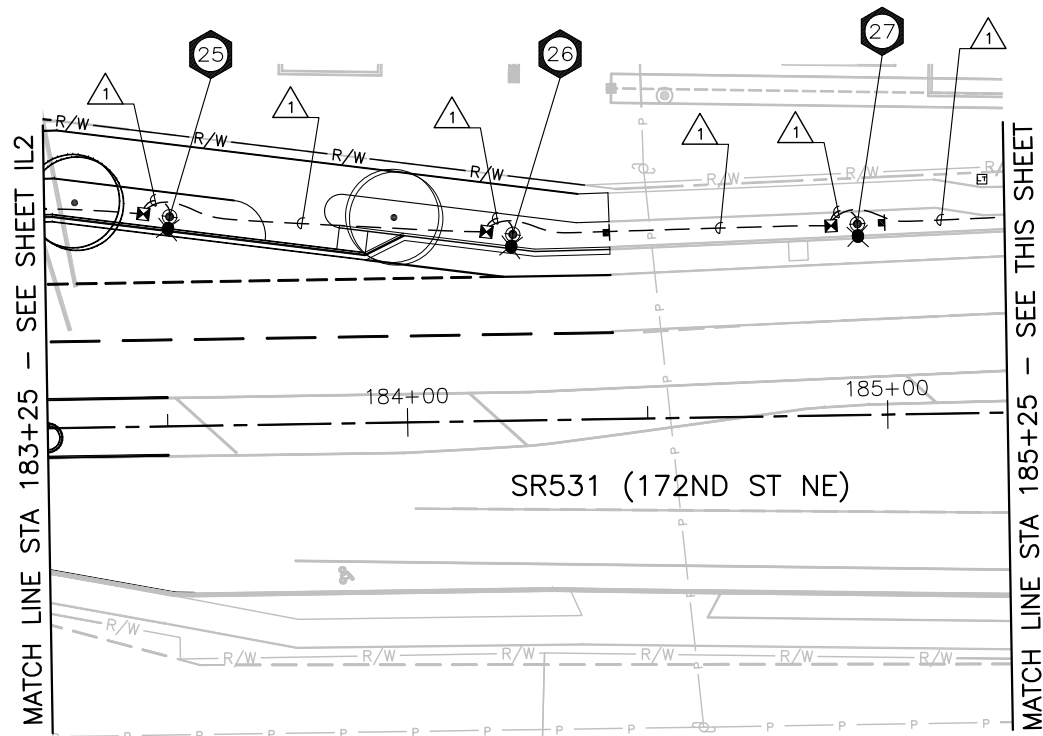
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 Sheet No. **IL2**
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

MATCH LINE STA 62+75 - SEE THIS SHEET



GENERAL NOTES:

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5. SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
6. SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
7. SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

LEGEND:

- ELECTRICAL CONDUIT
- STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
- TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- ROADWAY LIGHT IDENTIFICATION NUMBER
- CONDUIT RUN NUMBER
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- TRANSFORMER
- STORM DRAIN STRUCTURE
- PUD UTILITY POLE, BY OTHERS
- MAST ARM WITH LUMINAIRE

CONSTRUCTION NOTES:

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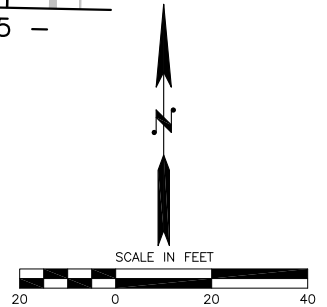
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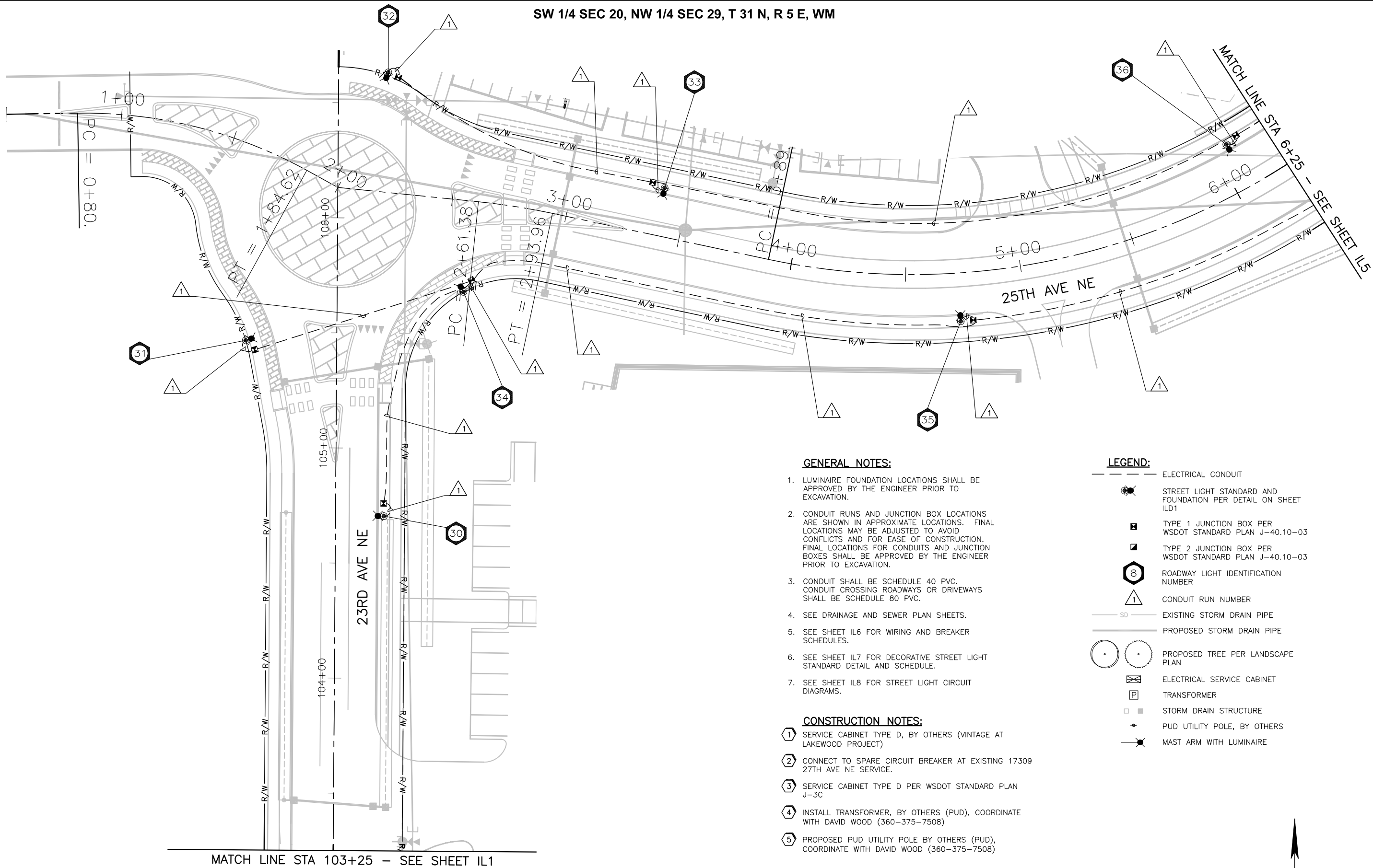
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ENGINEER: RAK
 DESIGNED BY: RAK
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

**LAKEWOOD STATION/
 SR531 ROUNDABOUT
 ILLUMINATION PLAN**

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 Everett, Washington 98204
 Ph: 425 741-3800
 25.2015.002
 Project No.
IL3
 Sheet No.
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GENERAL NOTES:

1. LUMINAIRE FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
2. CONDUIT RUNS AND JUNCTION BOX LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR CONDUITS AND JUNCTION BOXES SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
3. CONDUIT SHALL BE SCHEDULE 40 PVC. CONDUIT CROSSING ROADWAYS OR DRIVEWAYS SHALL BE SCHEDULE 80 PVC.
4. SEE DRAINAGE AND SEWER PLAN SHEETS.
5. SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
6. SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
7. SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

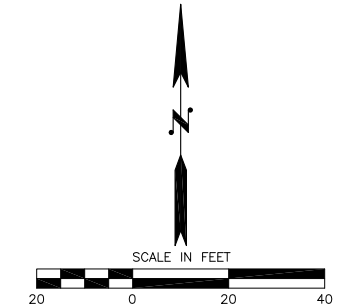
CONSTRUCTION NOTES:

- ① SERVICE CABINET TYPE D, BY OTHERS (VINTAGE AT LAKEWOOD PROJECT)
- ② CONNECT TO SPARE CIRCUIT BREAKER AT EXISTING 17309 27TH AVE NE SERVICE.
- ③ SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-3C
- ④ INSTALL TRANSFORMER, BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)
- ⑤ PROPOSED PUD UTILITY POLE BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)

LEGEND:

- ELECTRICAL CONDUIT
- STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
- TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- ROADWAY LIGHT IDENTIFICATION NUMBER
- CONDUIT RUN NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED TREE PER LANDSCAPE PLAN
- ELECTRICAL SERVICE CABINET
- TRANSFORMER
- STORM DRAIN STRUCTURE
- PUD UTILITY POLE, BY OTHERS
- MAST ARM WITH LUMINAIRE

MATCH LINE STA 103+25 - SEE SHEET IL1



NO.	DATE	BY	Checked	REVISIONS	Approval



ENGINEER: RAK
 DESIGNED BY: RAK
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

**100% SUBMITTAL
 - NOT FOR
 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT
 ILLUMINATION PLAN**

Reid Middleton
 728 134th Street SW - Suite 200
 Everett, Washington 98204
 Ph: 425 741-3800
 Project No. 25.2015.002
 Sheet No. **IL4**
 23 OF 55



MATCH LINE STA 10+25 - SEE THIS SHEET

GENERAL NOTES:

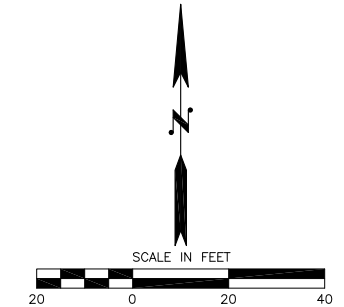
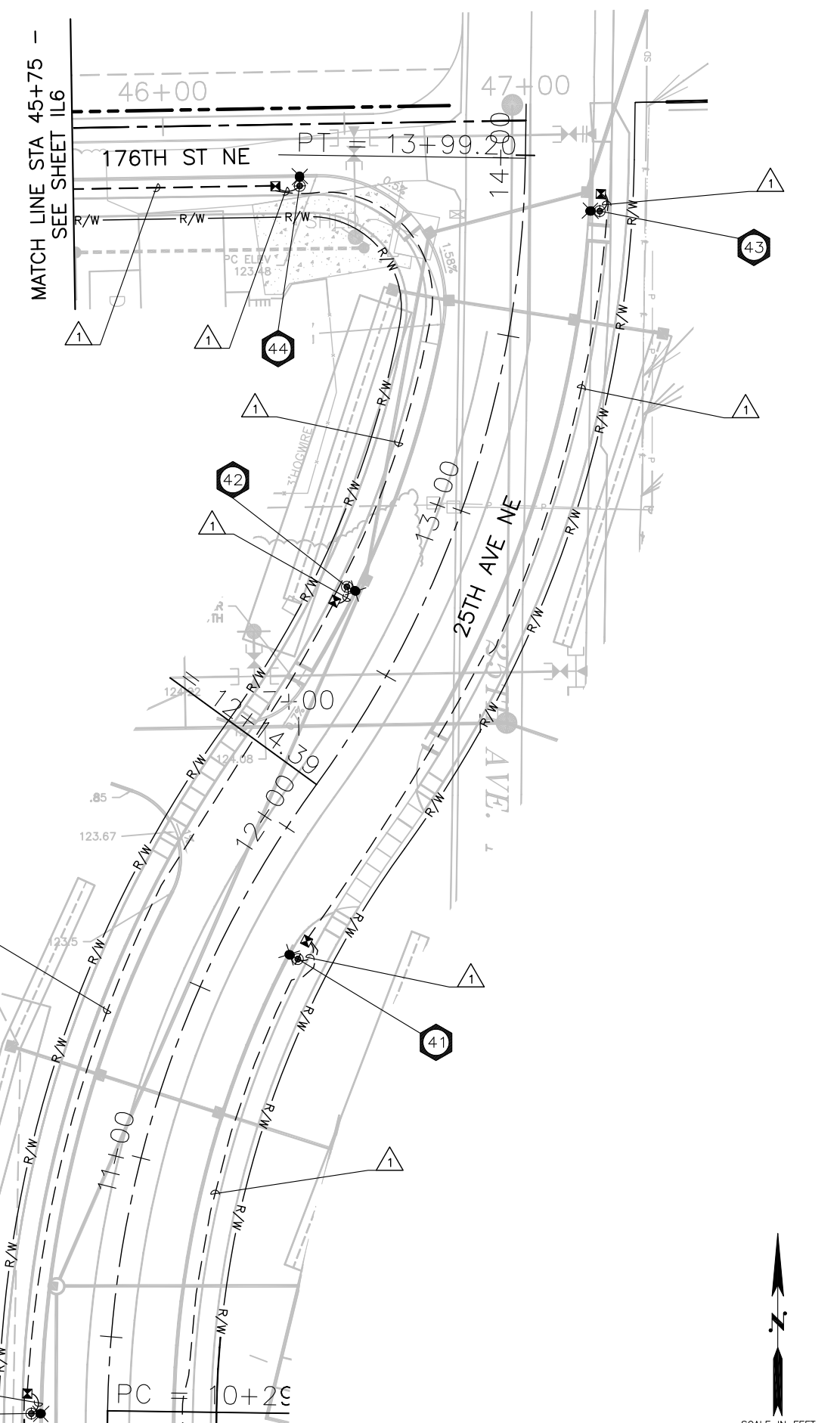
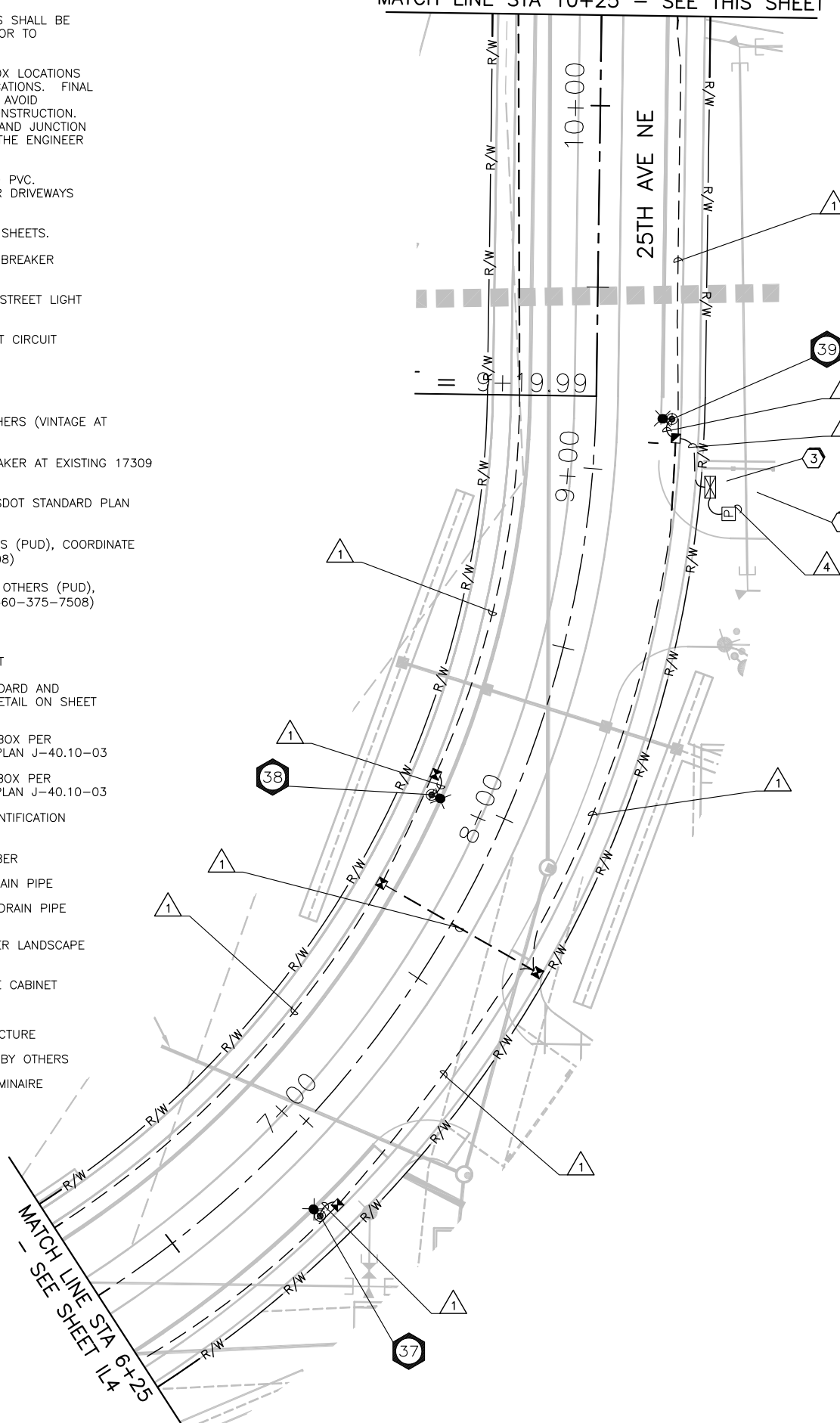
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- CONDUIT SHALL BE SCHEDULE 40 PVC. CONDUIT CROSSING ROADWAYS OR DRIVEWAYS SHALL BE SCHEDULE 80 PVC.
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- SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
- SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
- SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

CONSTRUCTION NOTES:

- SERVICE CABINET TYPE D, BY OTHERS (VINTAGE AT LAKEWOOD PROJECT)
- CONNECT TO SPARE CIRCUIT BREAKER AT EXISTING 17300 27TH AVE NE SERVICE.
- SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-3C
- INSTALL TRANSFORMER, BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)
- PROPOSED PUD UTILITY POLE BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)

LEGEND:

- ELECTRICAL CONDUIT
- STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
- TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- ROADWAY LIGHT IDENTIFICATION NUMBER
- CONDUIT RUN NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED TREE PER LANDSCAPE PLAN
- ELECTRICAL SERVICE CABINET
- TRANSFORMER
- STORM DRAIN STRUCTURE
- PUD UTILITY POLE, BY OTHERS
- MAST ARM WITH LUMINAIRE



NO.	DATE	BY	REVISIONS

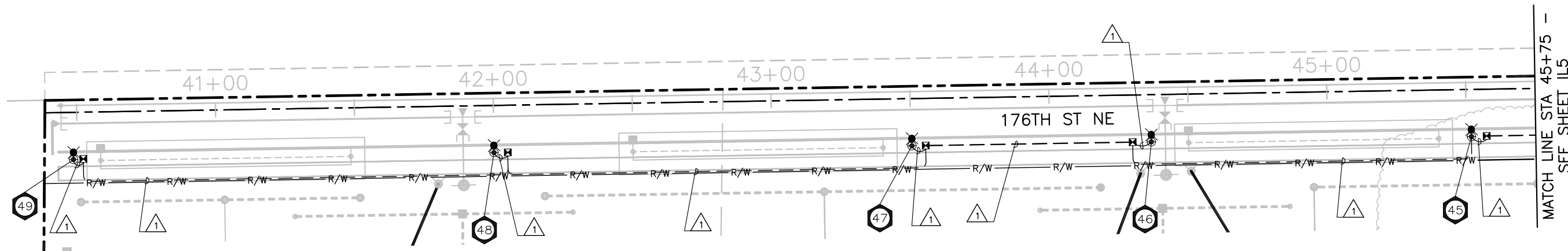


ENGINEER: RAK
 DESIGNED BY: RAK
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT
 ILLUMINATION PLAN**

Reid Middleton
 728 134th Street SW - Suite 200
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 Ph: 425 741-3800
 Project No. 25.2015.002
 Sheet No. **IL5**
 24 OF 55



WIRING SCHEDULE						
CONDUIT RUN NO.	CONDUIT SIZE	ILLUM #8	ILLUM #6	GROUND #8	SERVICE 250KCM	REMARKS
1	2"	2	2	1		
2	2"			1		
3	2"					SPARE
4	2"				3	SERVICE ENTRANCE
5	2"	2		1		CKT "D"
			2	1		CKT "B" BY OTHERS (VINTAGE AT LAKEWOOD)

BREAKER SCHEDULE 172ND ST. SE *						
TYPE D SERVICE (120/240V)						
CIRCUITS	BREAKER RATING	CONTACTOR	VOLTAGE	LOAD (KVA)	REMARKS	
1	ILLUM. B	30 AMPS	30 AMPS	240	0.980	BY OTHERS (VINTAGE AT LAKEWOOD)
2	RECEPT. C	20 AMPS	20 AMPS	120	1.260	BY OTHERS (VINTAGE AT LAKEWOOD)
3	ILLUM. D (SPARE)	30 AMPS	30 AMPS	240	3.105	
CONNECTED LOAD				5.345		
CONNECTED LOAD				5.902		

* SEE CONSTRUCTION NOTE 1.

BREAKER SCHEDULE 25TH AVE NE						
TYPE D SERVICE (200AMP - 120/240V)						
CIRCUITS	BREAKER RATING	CONTACTOR	VOLTAGE	LOAD (KVA)	REMARKS	
1	ILLUM. A	30 AMPS	30 AMPS	240	2.295	
CONNECTED LOAD				2.295		
CONNECTED LOAD				2.395		

CONSTRUCTION NOTES:

- ① SERVICE CABINET TYPE D, BY OTHERS (VINTAGE AT LAKEWOOD PROJECT)
- ② CONNECT TO SPARE CIRCUIT BREAKER AT EXISTING 17309 27TH AVE NE SERVICE.
- ③ SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-3C
- ④ INSTALL TRANSFORMER, BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)
- ⑤ PROPOSED PUD UTILITY POLE BY OTHERS (PUD), COORDINATE WITH DAVID WOOD (360-375-7508)

GENERAL NOTES:

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5. SEE SHEET IL6 FOR WIRING AND BREAKER SCHEDULES.
6. SEE SHEET IL7 FOR DECORATIVE STREET LIGHT STANDARD DETAIL AND SCHEDULE.
7. SEE SHEET IL8 FOR STREET LIGHT CIRCUIT DIAGRAMS.

LEGEND:

- ELECTRICAL CONDUIT
- ⊗ STREET LIGHT STANDARD AND FOUNDATION PER DETAIL ON SHEET ILD1
- ⊠ TYPE 1 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- ⊡ TYPE 2 JUNCTION BOX PER WSDOT STANDARD PLAN J-40.10-03
- ⑧ ROADWAY LIGHT IDENTIFICATION NUMBER
- ① CONDUIT RUN NUMBER
- SD EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED TREE PER LANDSCAPE PLAN
- ⊞ ELECTRICAL SERVICE CABINET
- ⊞ TRANSFORMER
- STORM DRAIN STRUCTURE
- ♦ PUD UTILITY POLE, BY OTHERS
- MAST ARM WITH LUMINAIRE

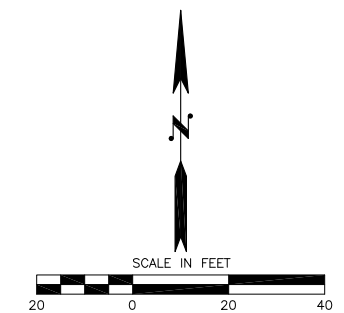
NO.	DATE	BY	Checked	REVISIONS	Approval



ENGINEER: RAK
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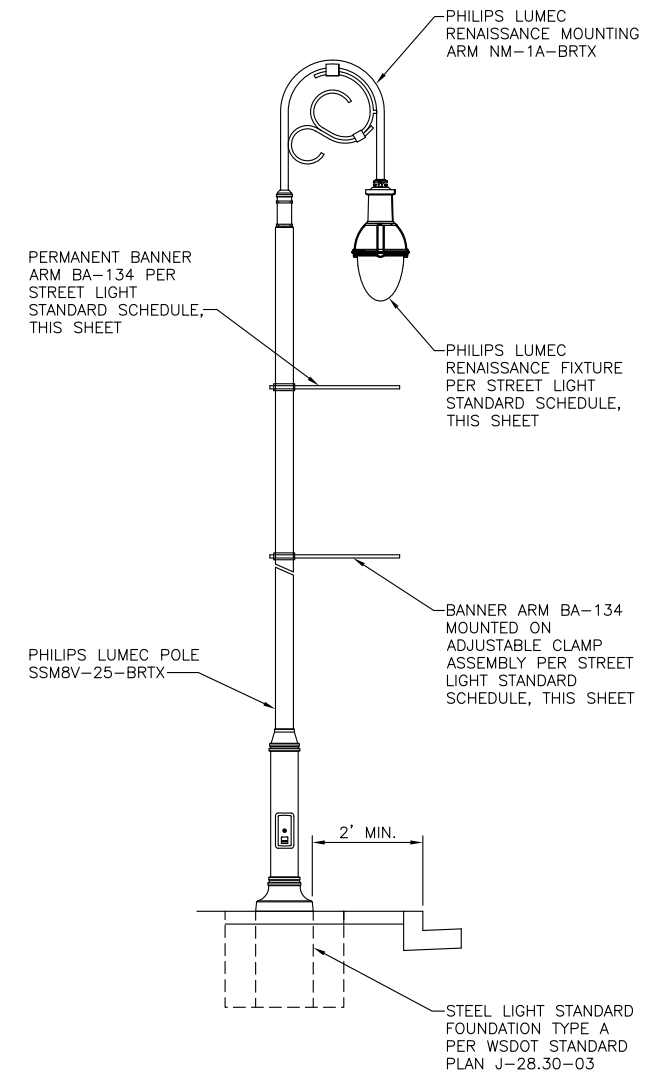


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 Project No. 25.2015.002
IL6
 Sheet No. 25 OF 55

SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

STREET LIGHT STANDARD SCHEDULE									
LUM NO.	CIRCUIT NO.	STATION, OFFSET	LUMINAIRE TYPE - DISTRIBUTION - WATT	MOUNTING HEIGHT	MAST ARM LENGTH	POLE TYPE	BASE TYPE	SERVICE CABINET	COMMENTS
1*	B	172ND STA 170+46.2, 35.1' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
2*	B	172ND STA 171+30.3, 35.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
3*	B	172ND STA 172+20.1, 39.3' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
4*	B	172ND STA 173+04.6, 44.3' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
5	B	172ND STA 173+93.8, 66.2' LT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
6	B	23RD STA 100+91.4, 20.4' LT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
7*	D	23RD STA 101+68.9, 9.2' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
8*	D	23RD STA 103+21.1, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
9	D	23RD STA 100+96.5, 55.2' RT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
10	D	172ND STA 173+37.7, 8.4' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
11	D	172ND STA 173+92.1, 34.1' RT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
12	D	172ND STA 174+29.3, 56.6' RT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
13	D	172ND STA 174+84.0, 67.2' RT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
14	D	172ND STA 175+45.9, 51.6' RT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
15	D	172ND STA 180+10.9, 45.4' LT	RN20-135W80LED4K-R-ACDR-LE4R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
16	D	172ND STA 176+11.9, 27.9' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
17	D	172ND STA 177+16.2, 34.7' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
18	D	172ND STA 177+95.1, 35.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
19	D	172ND STA 178+68.0, 35.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
20	D	172ND STA 179+39.6, 35.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
21	D	172ND STA 180+10.9, 38.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
22	D	172ND STA 180+82.9, 41.1' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
23	D	172ND STA 182+02.6, 47.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
24	D	172ND STA 182+75.8, 47.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
25	D	172ND STA 183+51.1, 43.7' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
26	D	172ND STA 184+22.5, 38.8' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
27	D	172ND STA 184+94.3, 39.8' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
28	D	172ND STA 185+65.6, 41.9' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
29	D	172ND STA 186+31.7, 56.5' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	172ND ST NE- VINTAGE	BANNER ARMS
30	A	23RD STA 104+70.5, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
31	A	23RD STA 105+49.2, 30.9' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
32	A	25TH STA 2+14.1, 41.7' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
33	A	25TH STA 3+39.3, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
34	A	25TH STA 2+53.8, 32.2' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
35	A	25TH STA 4+72.5, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
36	A	25TH STA 6+06.1, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
37	A	25TH STA 6+84.5, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
38	A	25TH STA 7+97.9, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
39	A	25TH STA 9+14.4, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
40	A	25TH STA 10+28.5, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
41	A	25TH STA 11+69.2, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
42	A	25TH STA 12+67.3, 21.0' LT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
43	A	25TH STA 13+85.8, 21.0' RT	RN20-135W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
44	A	176TH STA 46+37.4, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
45	A	176TH STA 45+51.8, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
46	A	176TH STA 44+36.6, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
47	A	176TH STA 43+50.4, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
48	A	176TH STA 42+00.0, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
49	A	176TH STA 40+48.6, 17.0' RT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	25TH AVE NE	
50	C(SPARE)	27TH STA 61+93.7, 49.0' LT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	EXISTING 17309 27TH AVE NE	
51	C(SPARE)	27TH STA 62+89.0, 28.7' LT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	EXISTING 17309 27TH AVE NE	
52	C(SPARE)	27TH STA 64+85.1, 16.4' LT	RN20-90W80LED4K-R-ACDR-LE3R-240-BRTX	23'	2.5'	DECORATIVE LUMINAIRE POLE	FIXED	EXISTING 17309 27TH AVE NE	
53	N/A	172ND STA 172+17.5, 54.6' RT	GC1-60E-XX-NW-3-XX-530	APPROX 33'	20'	PROPOSED PUD POLE			BY OTHERS (PUD)
54	N/A	172ND STA 181+49.9, 29.4' RT	GC1-60E-XX-NW-3-XX-530	APPROX 33'	12'	EXISTING PUD POLE CEFC-13			BY OTHERS (PUD)
55	N/A	172ND STA 186+69.5, 64.5' RT	GC1-60E-XX-NW-3-XX-530	APPROX 33'	20'	EXISTING PUD POLE CEFC-15			BY OTHERS (PUD)

* POLE, MAST ARM, LUMINAIRE AND OTHER MATERIALS FURNISHED BY OTHERS (VINTAGE AT LAKEWOOD).



LUMINAIRE, POLE AND BASE DETAIL

NOT TO SCALE



ENGINEER: RAK
 DESIGNED BY: RAK
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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LAKEWOOD STATION/
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25.2015.002

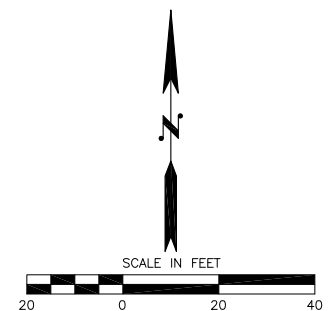
Project No.

IL7

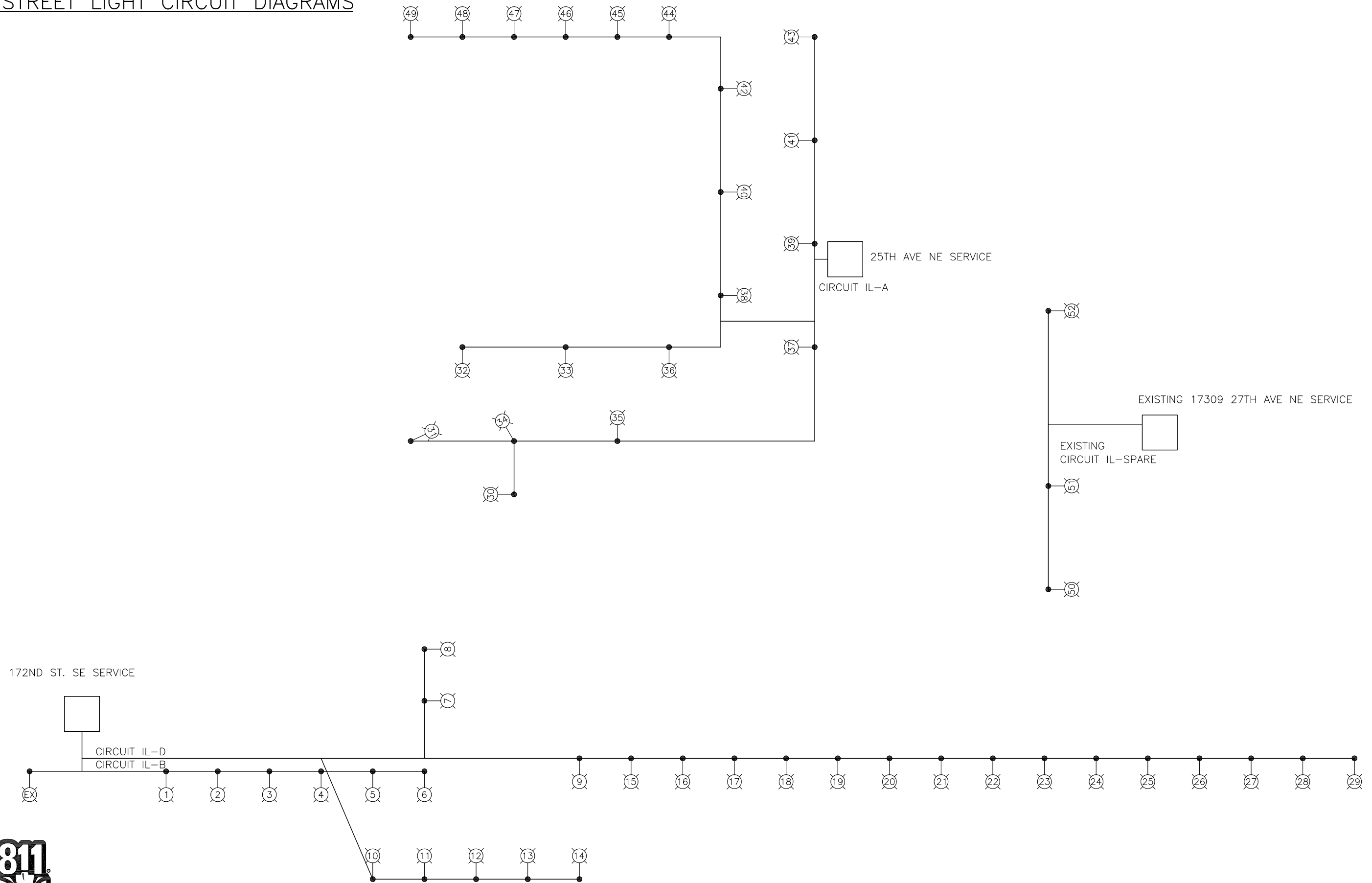
Sheet No.
 26 OF 55



Know what's below.
 Call before you dig.



STREET LIGHT CIRCUIT DIAGRAMS



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 DRAWN BY: KGH
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 DATE: XXX

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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 ILLUMINATION DETAILS



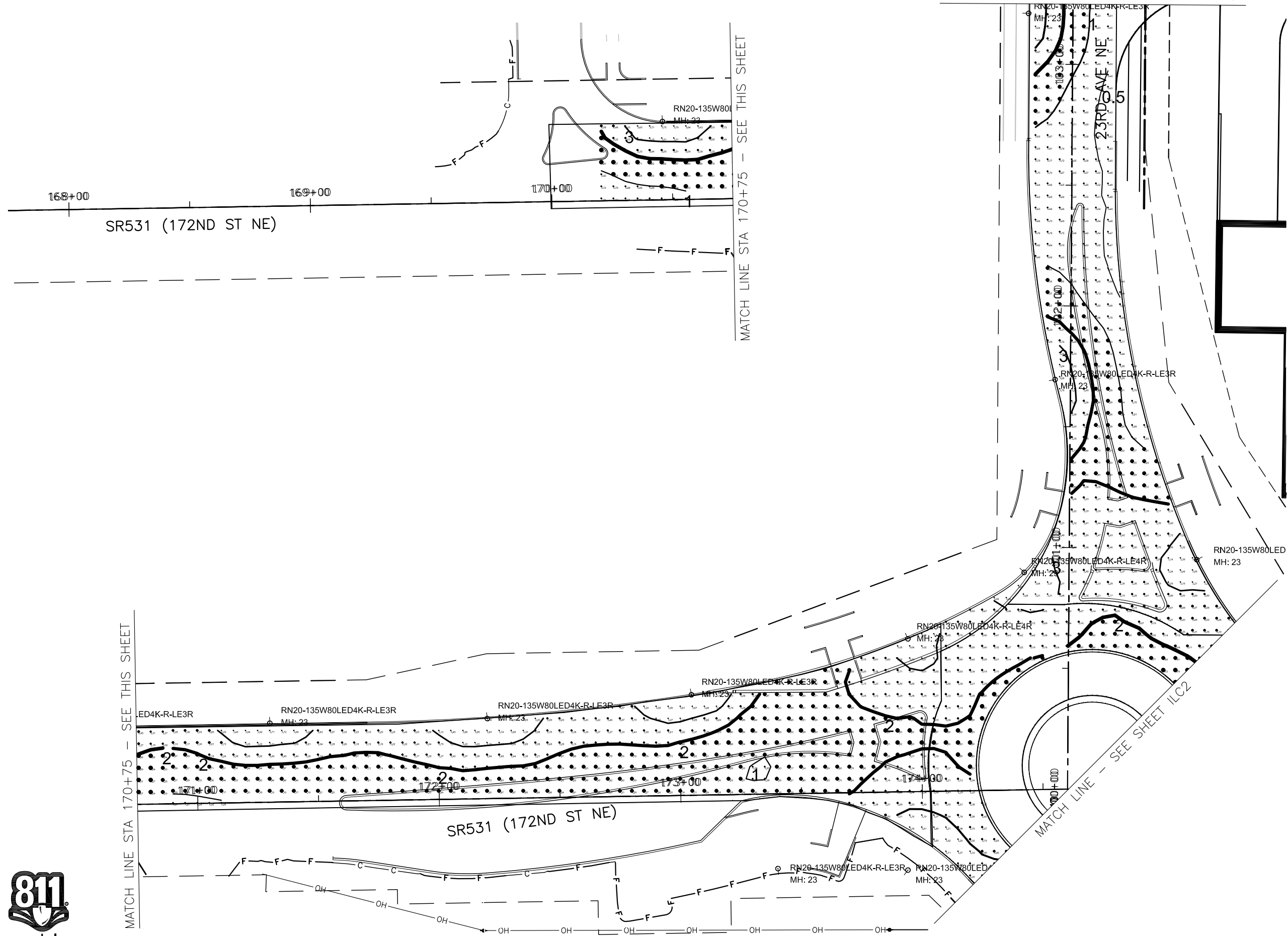
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Sheet No. **IL8**

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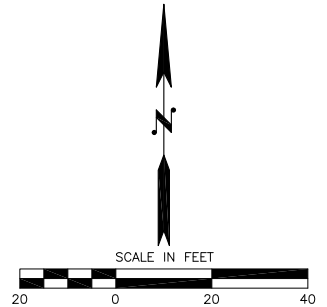


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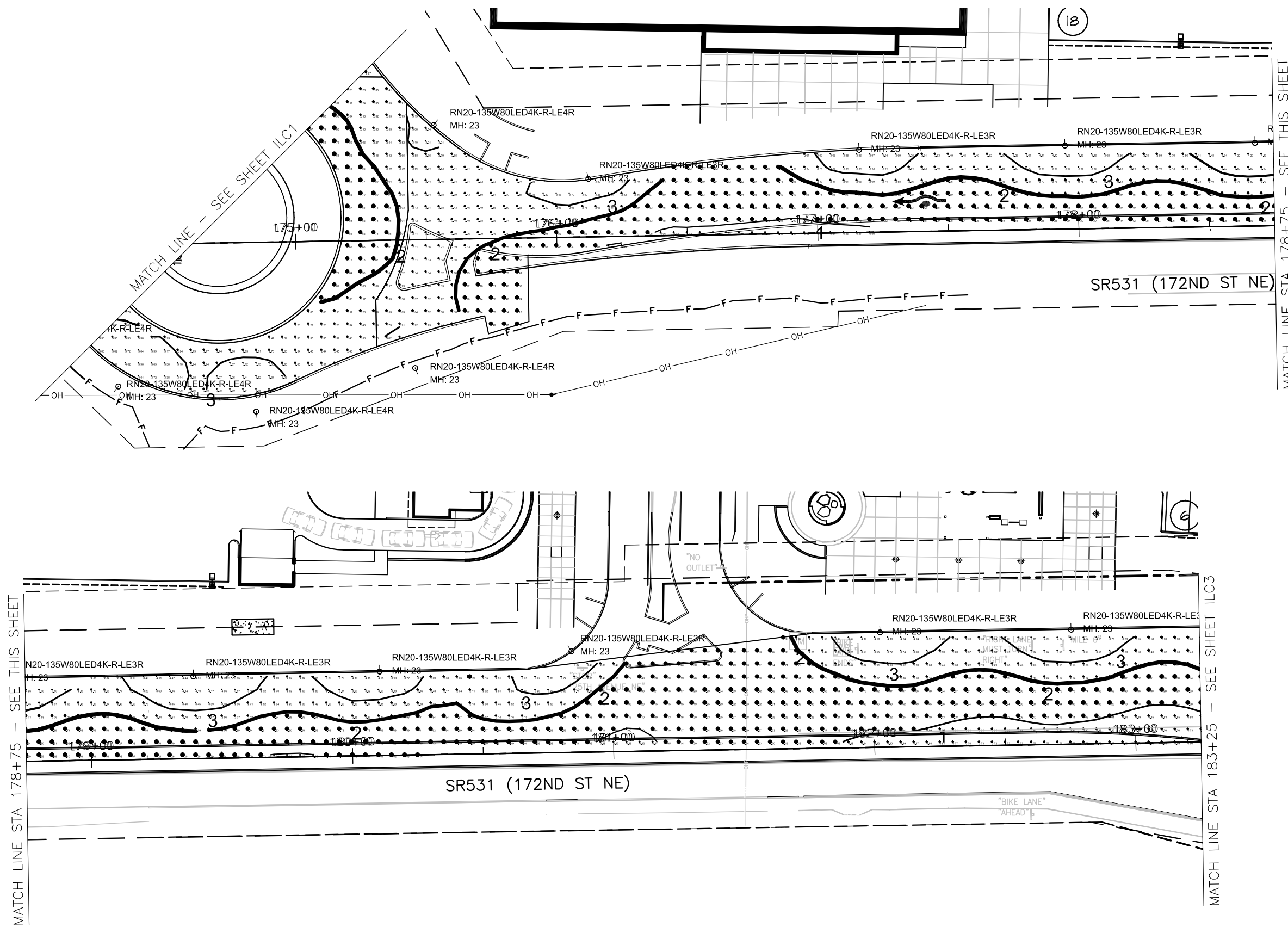
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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 ILLUMINATION CALCULATIONS

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ILC1
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



MATCH LINE STA 178+75 - SEE THIS SHEET

MATCH LINE STA 183+25 - SEE SHEET ILC3

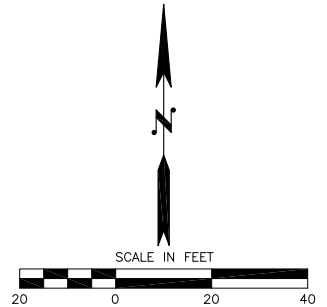
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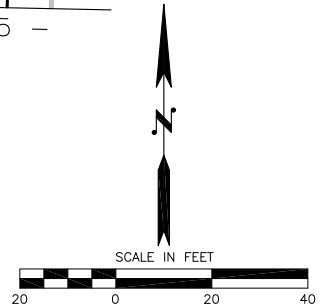
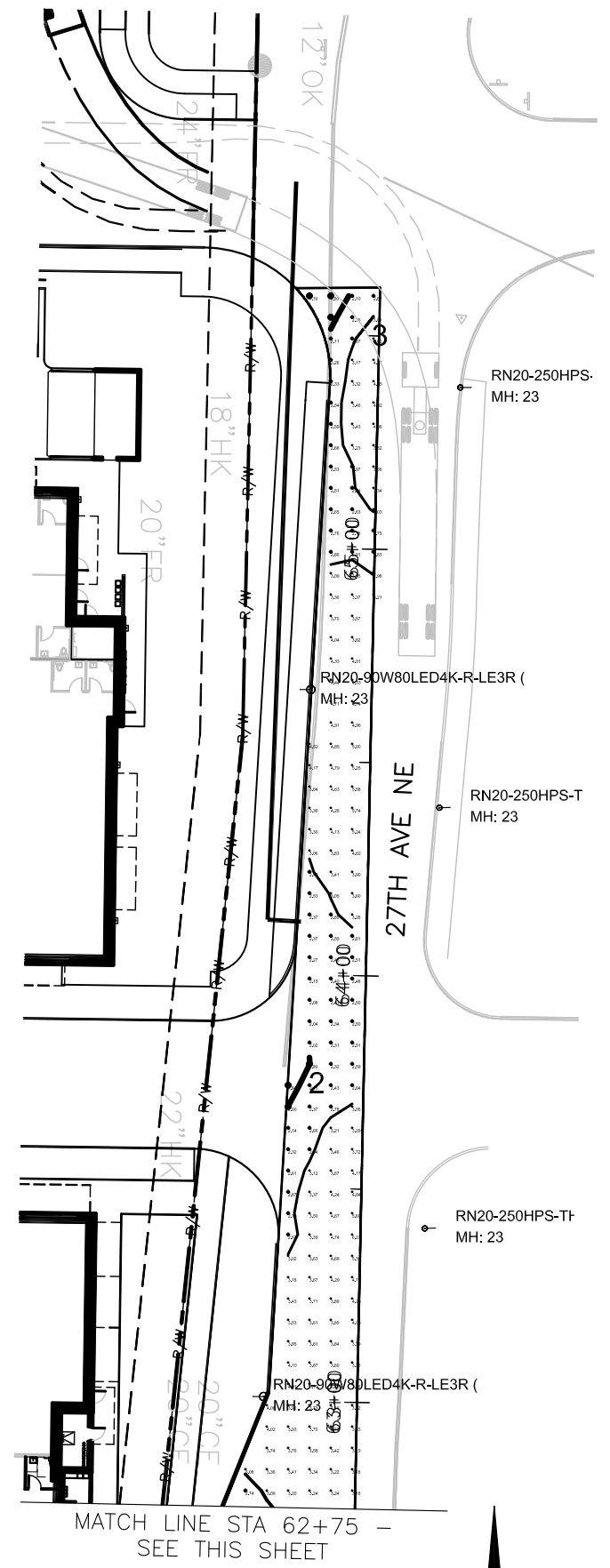
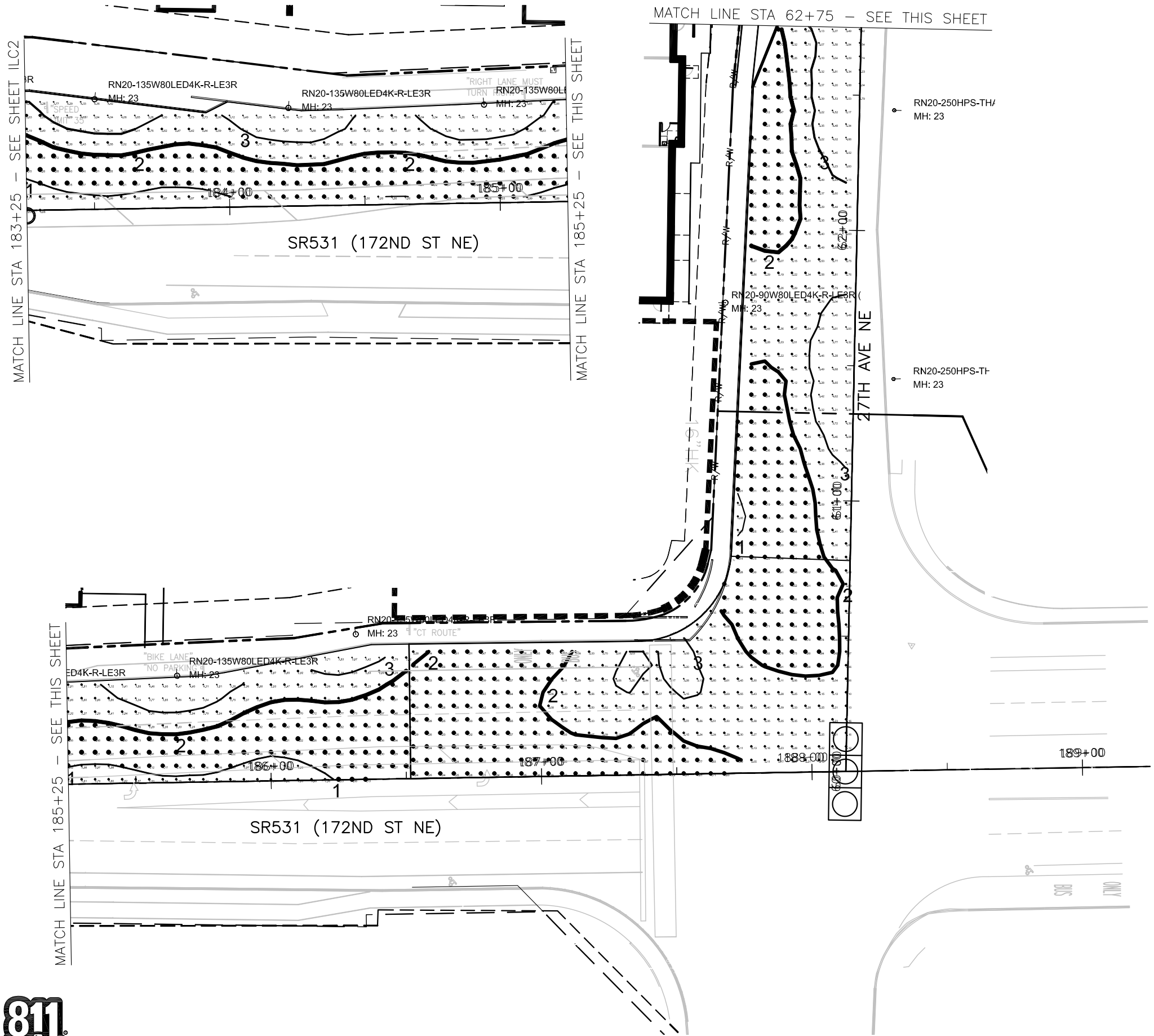
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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 ILLUMINATION CALCULATIONS



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ILC2
 Sheet No. 29 OF 55



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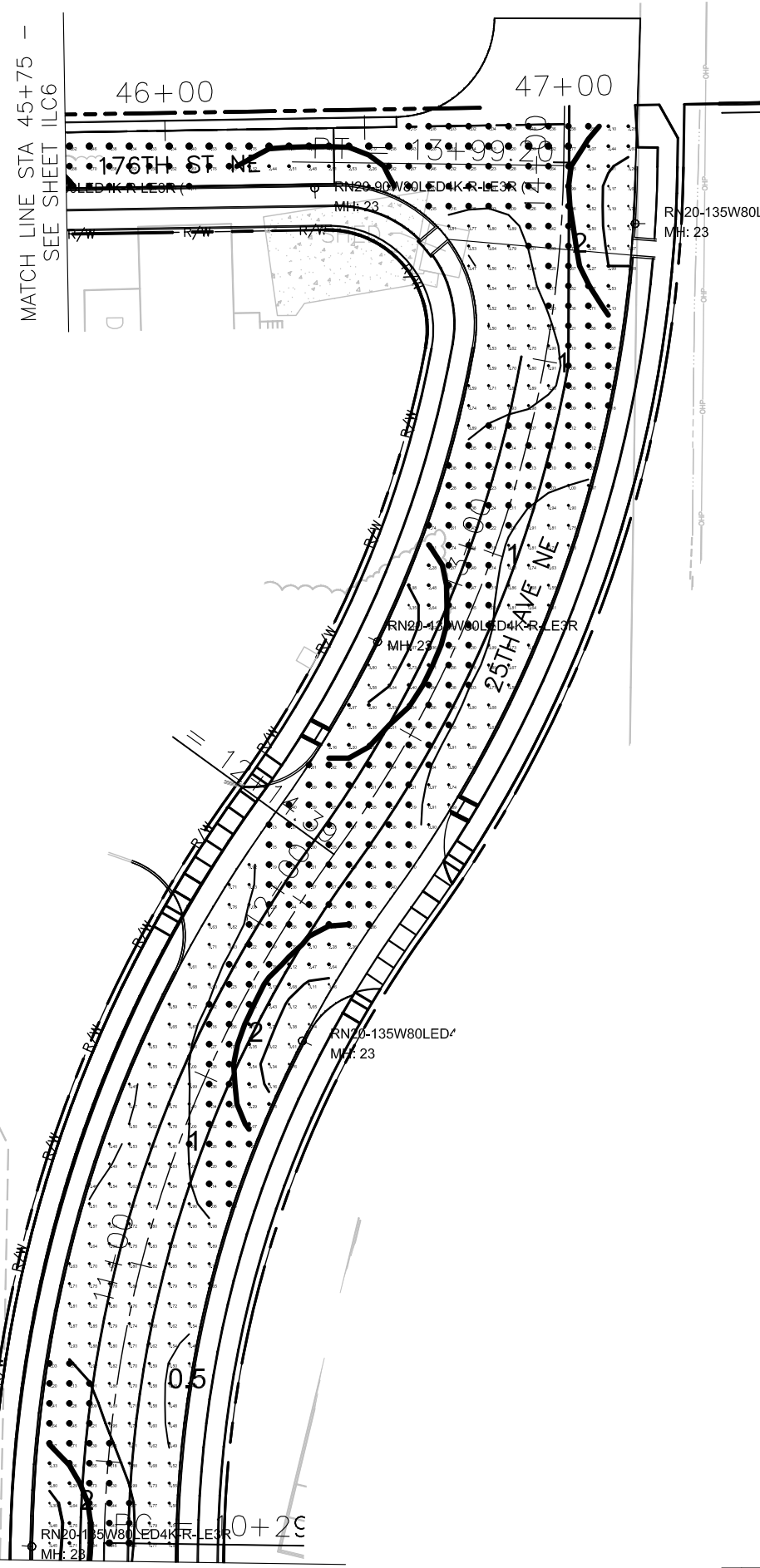
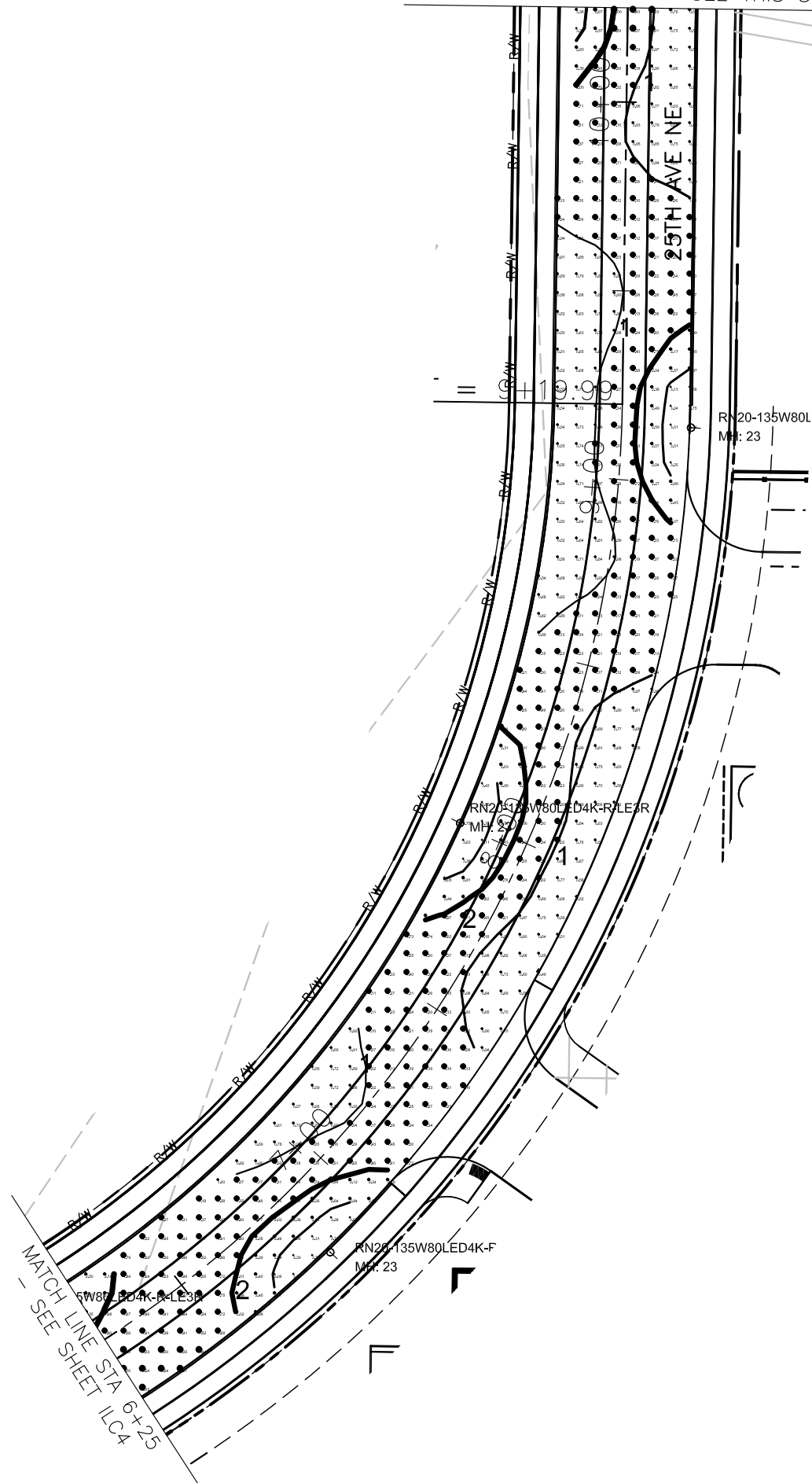
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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 ILLUMINATION CALCULATIONS

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 Project No. 25.2015.002
ILC3
 Sheet No. 30 OF 55

SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

MATCH LINE STA 10+25 - SEE THIS SHEET



MATCH LINE STA 10+25 - SEE THIS SHEET

MATCH LINE STA 45+75 - SEE SHEET ILC6

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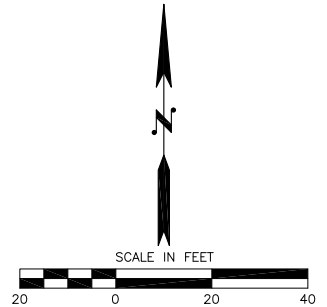


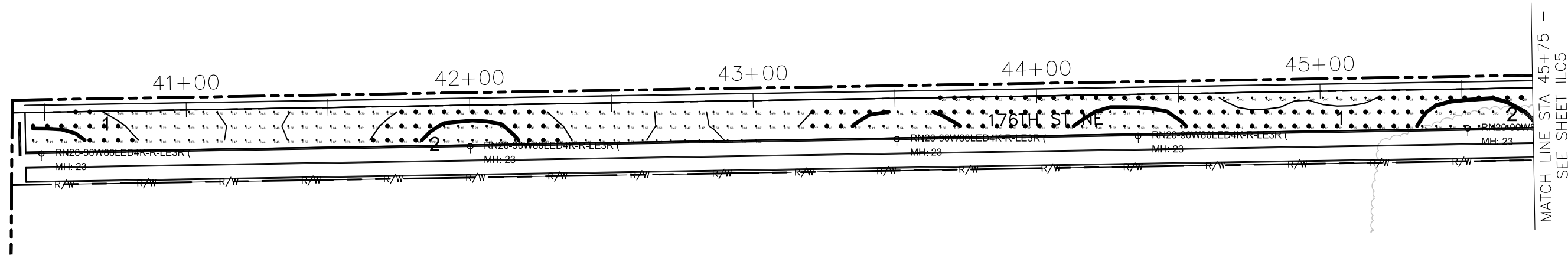
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**LAKEWOOD STATION/
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City of Marysville Illumination Standards:

Sidewalks - light levels calculations are not required

Intersection light levels:

Use higher average light levels for the intersection, typically 1.2 or 1.3 the approach light levels.
Average = 2.0 x 1.2 = 2.4 ftc (Roundabout at SR 531)

172nd ST NE = Principal Arterial - Commercial

Average = 2.0 ftc, Uniformity ratio of 4:1 or greater

23rd Ave NE/174th St NE/25th Ave NE/176th St NE = Arterial Collector - Commercial

Average = 1.2 ftc, Uniformity ratio of 4:1 or greater

27th Ave NE = Arterial Collector - Commercial

Average = 1.2 ftc, Uniformity ratio of 4:1 or greater

Note: The design calculations for photometrics along SR 531 (172nd), 27th, and 176th should only be performed to the future roadway centerline along the development frontage only.

The Roundabout will be fully lit.

Calculation Summary						
Project: Smokey Point SR 531						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
174th/25th/176th	Illuminance	Fc	1.36	3.85	0.38	3.58
176th Avenue	Illuminance	Fc	1.35	2.89	0.41	3.29
23rd Avenue	Illuminance	Fc	1.47	3.78	0.42	3.50
27th Ave-West Side	Illuminance	Fc	2.78	6.35	0.95	2.93
Intersection - Roundabout at SR 531-23rd	Illuminance	Fc	2.40	4.02	1.53	1.57
Intersection: 25th-176th	Illuminance	Fc	1.77	3.73	0.77	2.30
Roundabout Intersection at 174th	Illuminance	Fc	1.23	2.85	0.56	2.20
SR 531 East Leg (N Side)	Illuminance	Fc	2.01	4.60	0.58	3.47
SR531 West Leg (N Side)	Illuminance	Fc	2.01	4.11	0.56	3.59

Luminaire Schedule								
Symbol	Quantity	Location	Label	Arrangement	Total Lamp Lumens	LLF	Description	Arm
	4	EXISTING AT SIGNAL SR531/27TH	Ge1002	SINGLE	50000	0.620	400WATT 12 FT Arm Length	13.5
	1	ON PUD POLE	GC1-60E-XX-NW-3-XX-530	SINGLE	N.A.	0.850	LED-LEOTEK-12FT MA-200W EQUIV-60E-530-TYPE3	13.5
	2	ON PUD POLES	GC1-60E-XX-NW-3-XX-530-20'MA	SINGLE	N.A.	0.850	LED-LEOTEK-20FT MA-200W EQUIV-60E-530-TYPE3	21.5
⊙	35	PROPOSED NEW SR531, 23RD, 25TH	RN20-135W80LED4K-R-LE3R	SINGLE	N.A.	0.850	RN20-135W80LED4K-R-LE3R	2.5
⊙	8	PROPOSED NEW ROUNDABOUT SR531	RN20-135W80LED4K-R-LE4R	SINGLE	N.A.	0.850	RN20-135W80LED4K-R-LE4R	2.5
⊙	9	PROPOSED NEW 176TH	RN20-90W80LED4K-R-LE3R	SINGLE	N.A.	0.850	RN20-90W80LED4K-R-LE3R	2.5
⊙	5	EXISTING EAST SIDE OF 27TH	RN20-250HPS-THA3-PC (S01)	SINGLE	29000	0.880	250HPS-RN20-THA3-PC	2.5

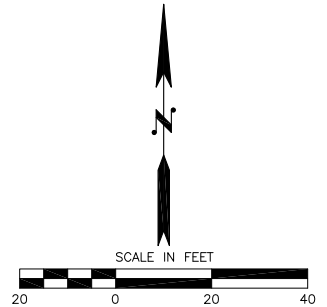
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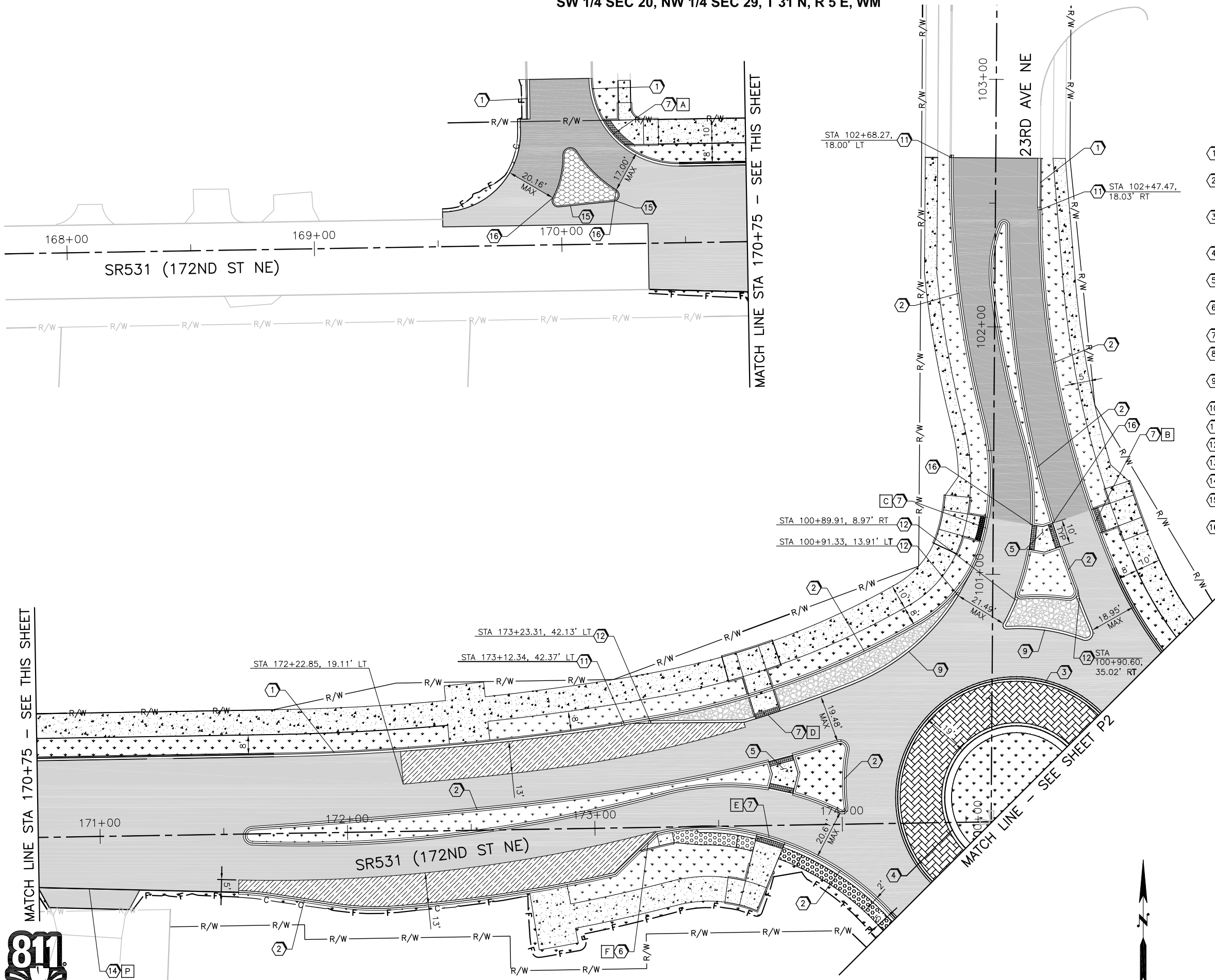
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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 ILLUMINATION CALCULATIONS



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ILC6
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



GENERAL NOTES:

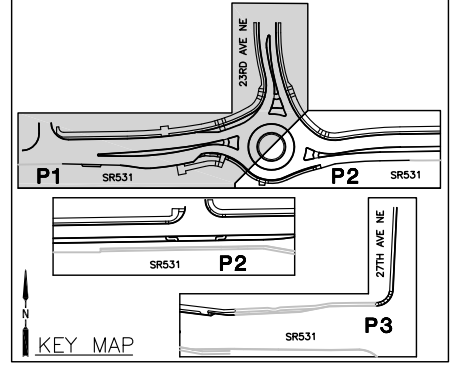
1. ALL DIMENSIONS ARE TO FACE OF CURB AND GIVEN FOR INFORMATIONAL PURPOSES ONLY. SEE GRADING SHEETS FOR DETAILED HORIZONTAL GEOMETRY.
2. SEE GRADING SHEETS FOR BEGIN/END STATIONS AND ANGLE POINTS.
3. SEE SITE PREPARATION SHEETS FOR PAVEMENT PULVERIZATION, PLANING, SAWCUTTING AND REMOVAL LIMITS.

CONSTRUCTION NOTES:

- 1 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-03
- 2 ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER, CURB 2 PER WSDOT STD PLAN F-10.18-00
- 3 ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER, CURB 1 PER WSDOT STD PLAN F-10.18-00
- 4 ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB, CURB 3 PER WSDOT STD PLAN F-10.18-00
- 5 SIDEWALK IN SPLITTER ISLAND PER DETAIL ON SHEET MD1
- 6 CEMENT CONCRETE BIKE RAMP PER DETAIL ON SHEET MD1 AND DETAIL [X] ON SHEETS GD1-GD2
- 7 RAMP PER DETAIL [X] ON SHEET GD1-GD2
- 8 CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- 9 PRECAST SLOPED MOUNTABLE CEMENT CONCRETE CURB PER WSDOT STD PLAN F-10.62-02
- 10 SIDEWALK IN BOULEVARD PER DETAIL ON SHEET MD1
- 11 CURB TRANSITION TYPE 1 PER DETAIL ON SHEET MD1
- 12 CURB TRANSITION TYPE 2 PER DETAIL ON SHEET MD1
- 13 CURB TRANSITION TYPE 3 PER DETAIL ON SHEET MD1
- 14 DRIVEWAY PER DETAIL [X] ON SHEETS GD1-GD2
- 15 MOUNTABLE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- 16 END FULL DEPTH PAVEMENT SECTION 1 AT PRC, PC OR PT OF ISLAND; BEGIN FULL DEPTH PAVEMENT SECTION 2

LEGEND:

- CEMENT CONCRETE SIDEWALK PER TYPICAL SECTIONS
- TRUCK APRON PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 1 PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 2 PER TYPICAL SECTIONS
- 2" MIN HMA OVERLAY PER TYPICAL SECTIONS
- CEMENT CONCRETE BUS PULLOUT PER TYPICAL SECTIONS
- DETACHED SHOULDER PER TYPICAL SECTIONS
- GRAVEL BACKFILL WITH HMA CAP PER TYPICAL SECTIONS
- LANDSCAPE PER LANDSCAPE PLAN
- HARDSCAPE PER LANDSCAPE PLAN
- C CUT LIMIT
- F FILL LIMIT



NO.	DATE	BY	REVISIONS



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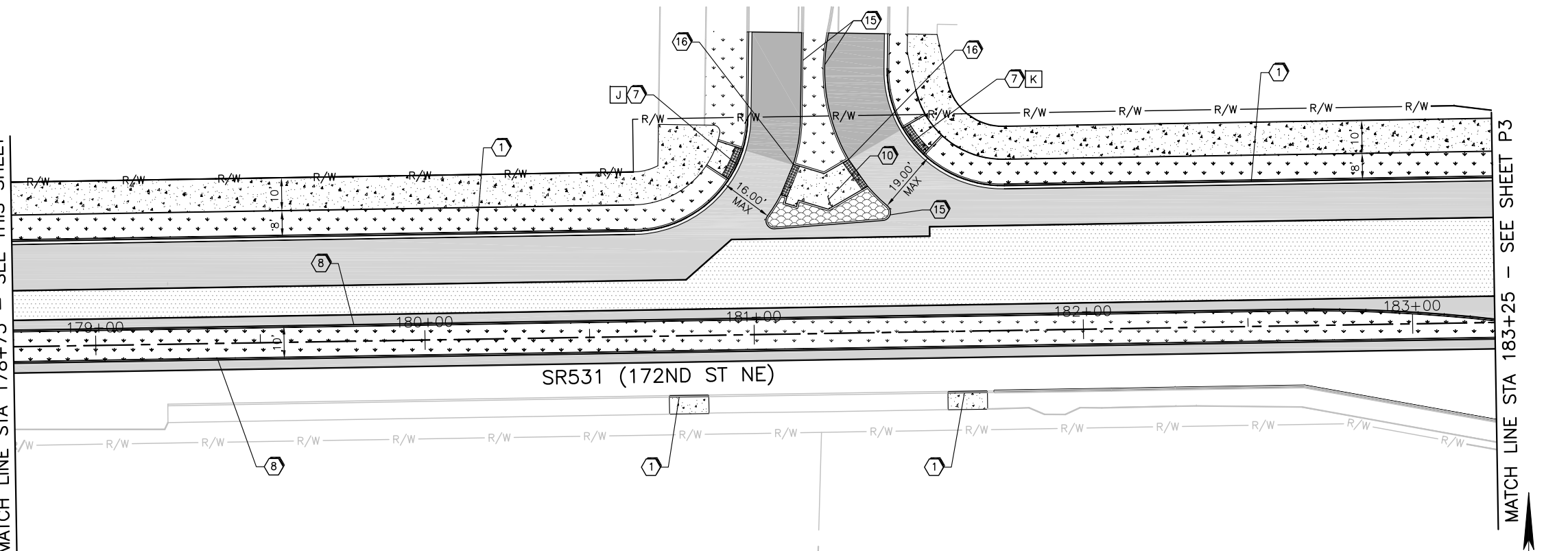
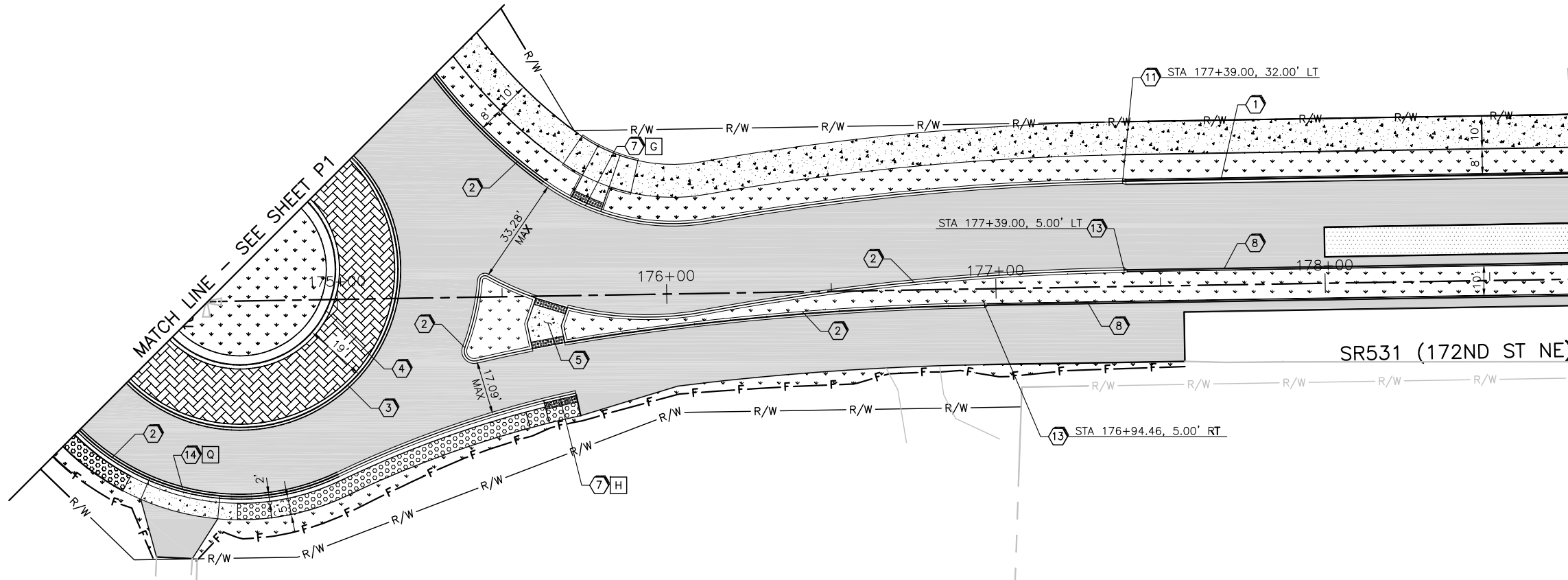
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**LAKWOOD STATION/
 SR531 ROUNDABOUT**
 PAVING PLAN

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 25.2015.002
 Project No. P1
 Sheet No. 34 OF 55



SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



GENERAL NOTES:

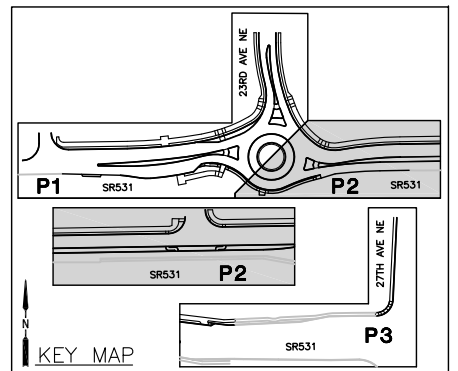
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3. SEE SITE PREPARATION SHEETS FOR PAVEMENT PULVERIZATION, PLANING, SAWCUTTING AND REMOVAL LIMITS.

CONSTRUCTION NOTES:

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- 5 SIDEWALK IN SPLITTER ISLAND PER DETAIL ON SHEET MD1
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- 11 CURB TRANSITION TYPE 1 PER DETAIL ON SHEET MD1
- 12 CURB TRANSITION TYPE 2 PER DETAIL ON SHEET MD1
- 13 CURB TRANSITION TYPE 3 PER DETAIL ON SHEET MD1
- 14 DRIVEWAY PER DETAIL [X] ON SHEETS GD1-GD2
- 15 MOUNTABLE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- 16 END FULL DEPTH PAVEMENT SECTION 1 AT PRC, PC OR PT OF ISLAND; BEGIN FULL DEPTH PAVEMENT SECTION 2

LEGEND:

- CEMENT CONCRETE SIDEWALK PER TYPICAL SECTIONS
- TRUCK APRON PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 1 PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 2 PER TYPICAL SECTIONS
- 2" MIN HMA OVERLAY
- CEMENT CONCRETE BUS PULLOUT PER TYPICAL SECTIONS
- DETACHED SHOULDER PER TYPICAL SECTIONS
- GRAVEL BACKFILL WITH HMA CAP PER TYPICAL SECTIONS
- LANDSCAPE PER LANDSCAPE PLAN
- HARDSCAPE PER LANDSCAPE PLAN
- C CUT LIMIT
- F FILL LIMIT



MATCH LINE STA 178+75 - SEE THIS SHEET

MATCH LINE STA 183+25 - SEE SHEET P3

MATCH LINE STA 178+75 - SEE THIS SHEET

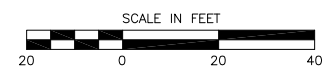


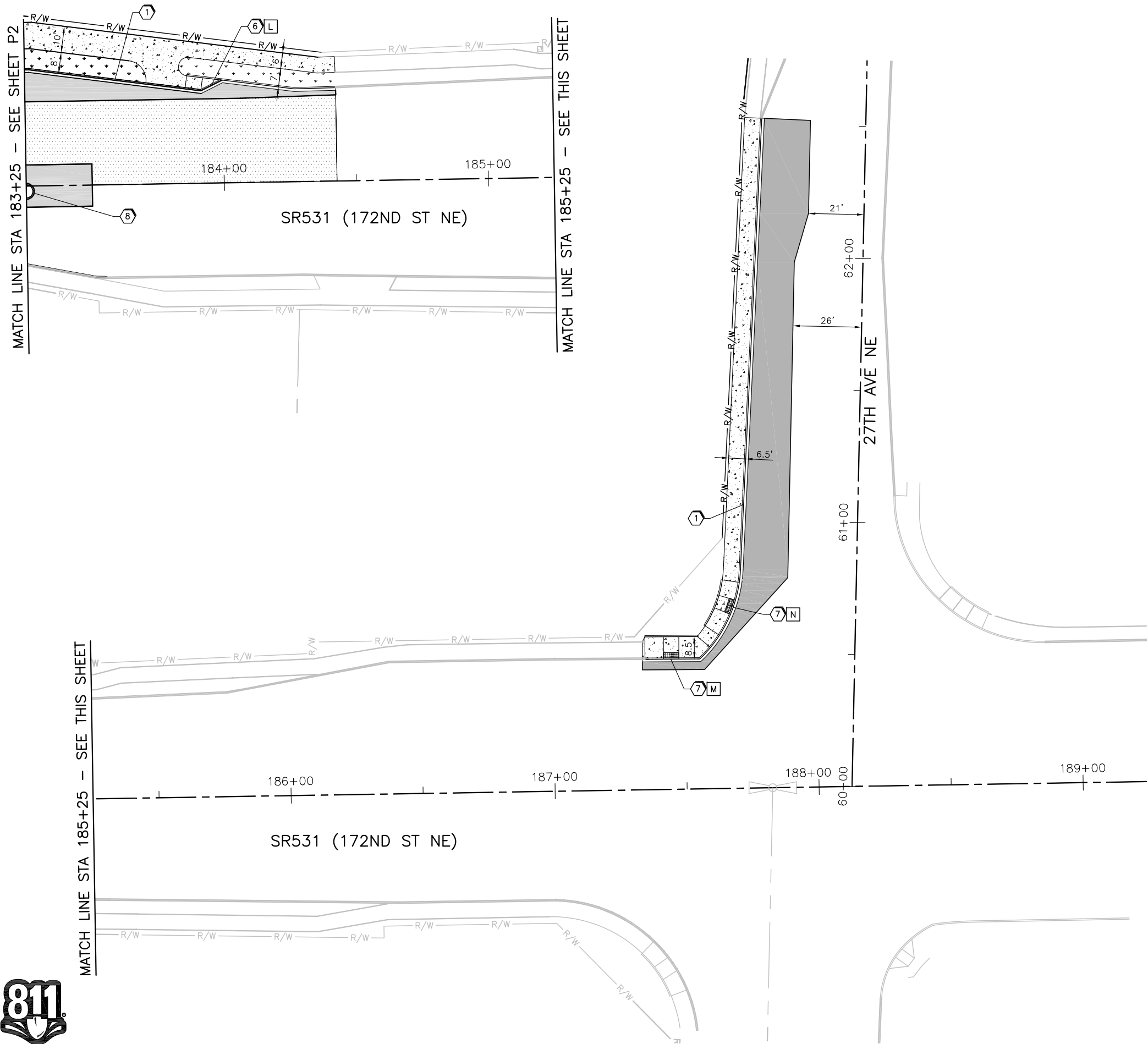
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**LAKEWOOD STATION/
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 PAVING PLAN

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P2
 Sheet No. 35 OF 55





GENERAL NOTES:

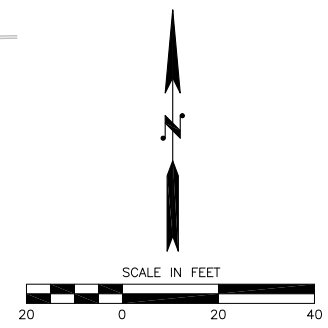
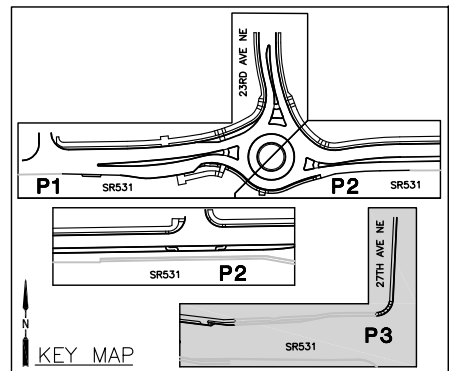
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CONSTRUCTION NOTES:

- ① CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-03
- ② ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER, CURB 2 PER WSDOT STD PLAN F-10.18-00
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- ⑤ SIDEWALK IN SPLITTER ISLAND PER DETAIL ON SHEET MD1
- ⑥ CEMENT CONCRETE BIKE RAMP PER DETAIL ON SHEET MD1 AND DETAIL [X] ON SHEETS GD1-GD2
- ⑦ RAMP PER DETAIL [X] ON SHEET GD1-GD2
- ⑧ CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- ⑨ PRECAST SLOPED MOUNTABLE CEMENT CONCRETE CURB PER WSDOT STD PLAN F-10.62-02
- ⑩ SIDEWALK IN BOULEVARD PER DETAIL ON SHEET MD1
- ⑪ CURB TRANSITION TYPE 1 PER DETAIL ON SHEET MD1
- ⑫ CURB TRANSITION TYPE 2 PER DETAIL ON SHEET MD1
- ⑬ CURB TRANSITION TYPE 3 PER DETAIL ON SHEET MD1
- ⑭ DRIVEWAY PER DETAIL [X] ON SHEETS GD1-GD2
- ⑮ MOUNTABLE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD PLAN F-10.12-03
- ⑯ END FULL DEPTH PAVEMENT SECTION 1 AT PRC, PC OR PT OF ISLAND; BEGIN FULL DEPTH PAVEMENT SECTION 2

LEGEND:

- CEMENT CONCRETE SIDEWALK PER TYPICAL SECTIONS
- TRUCK APRON PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 1 PER TYPICAL SECTIONS
- FULL DEPTH PAVEMENT SECTION 2 PER TYPICAL SECTIONS
- 2" MIN HMA OVERLAY
- CEMENT CONCRETE BUS PULLOUT PER TYPICAL SECTIONS
- DETACHED SHOULDER PER TYPICAL SECTIONS
- GRAVEL BACKFILL WITH HMA CAP PER TYPICAL SECTIONS
- LANDSCAPE PER LANDSCAPE PLAN
- HARDSCAPE PER LANDSCAPE PLAN
- C CUT LIMIT
- F FILL LIMIT



NO.	DATE	BY	REVISIONS



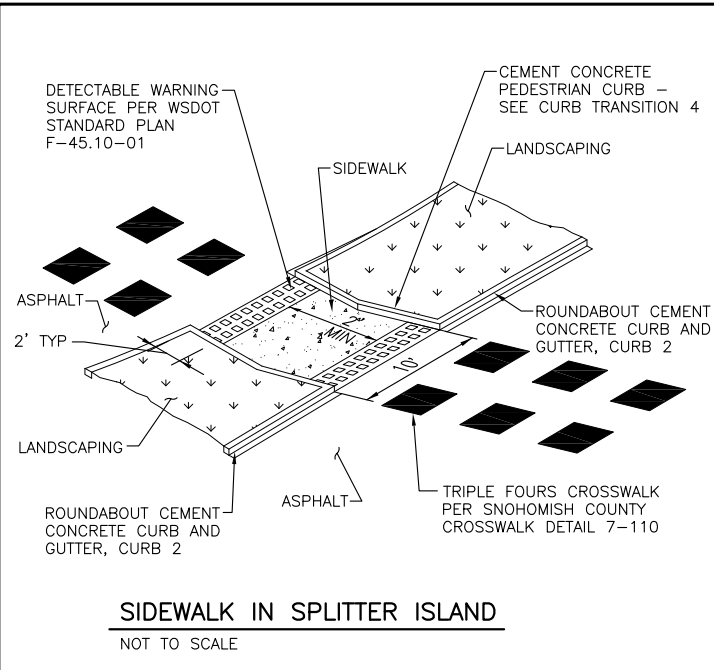
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**LAKewood STATION/
 SR531 ROUNDABOUT**
 PAVING PLAN

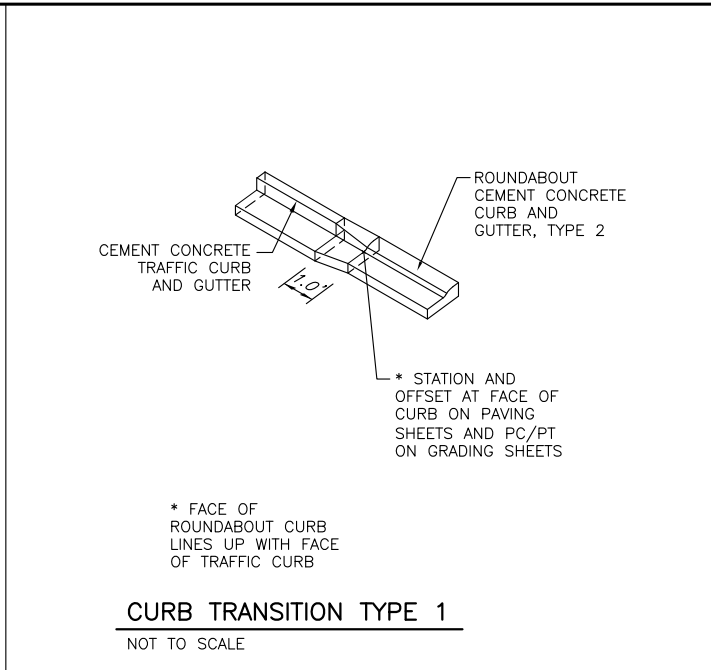
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P3
 Sheet No. 36 OF 55





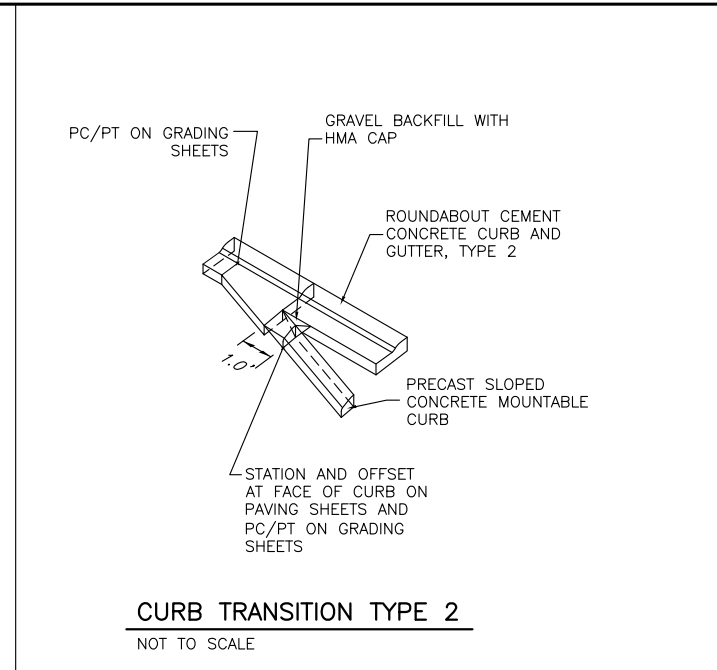
SIDEWALK IN SPLITTER ISLAND

NOT TO SCALE



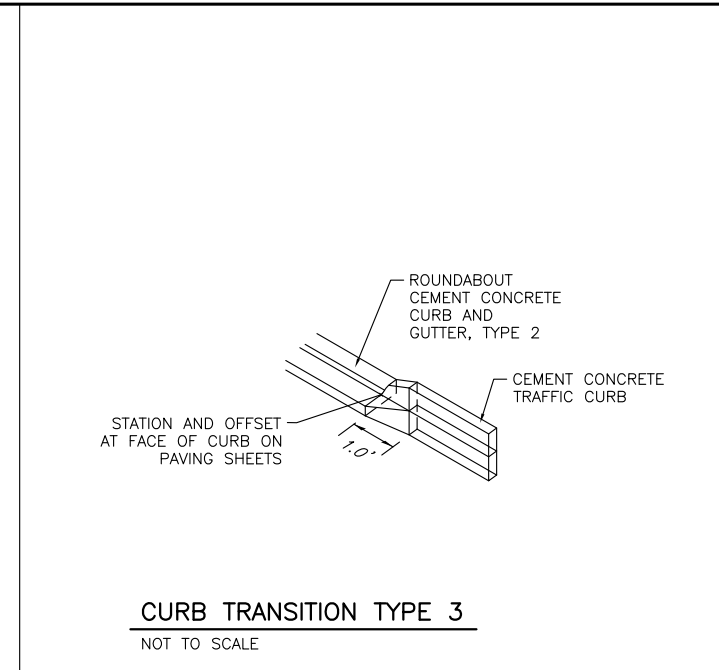
CURB TRANSITION TYPE 1

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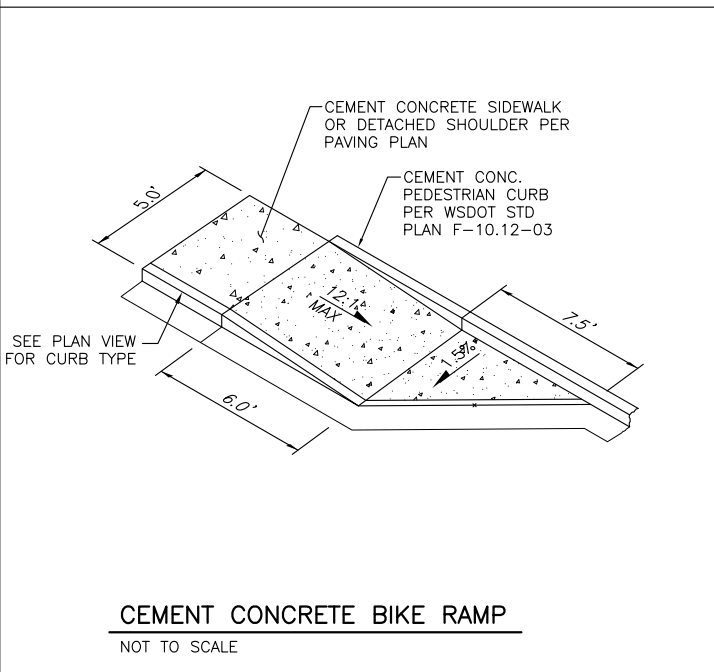
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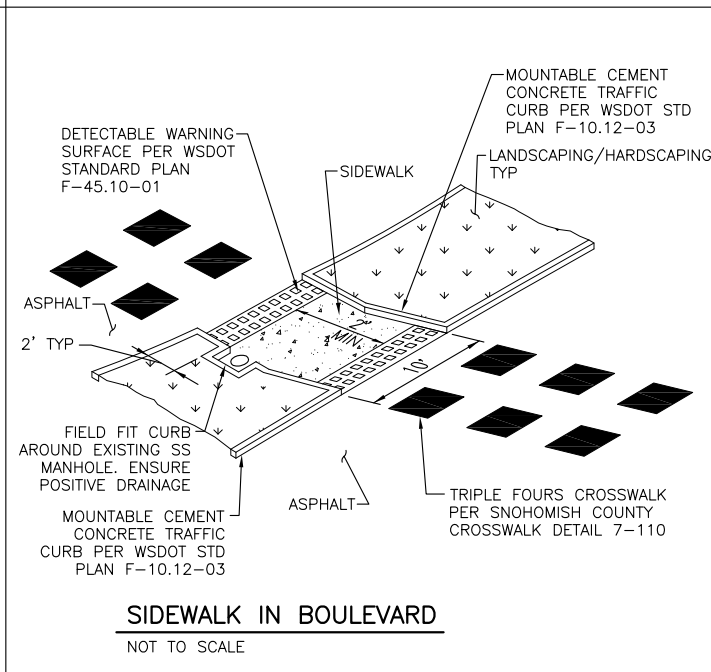
CURB TRANSITION TYPE 3

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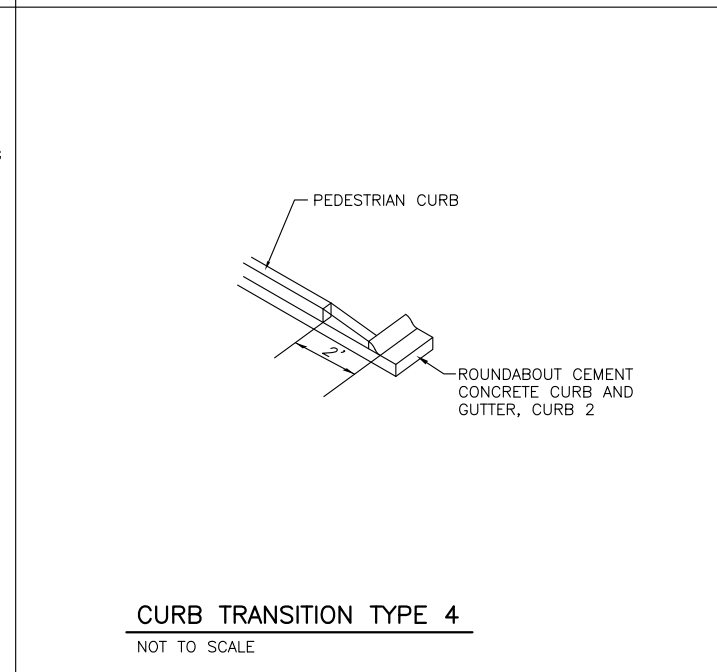
CEMENT CONCRETE BIKE RAMP

NOT TO SCALE



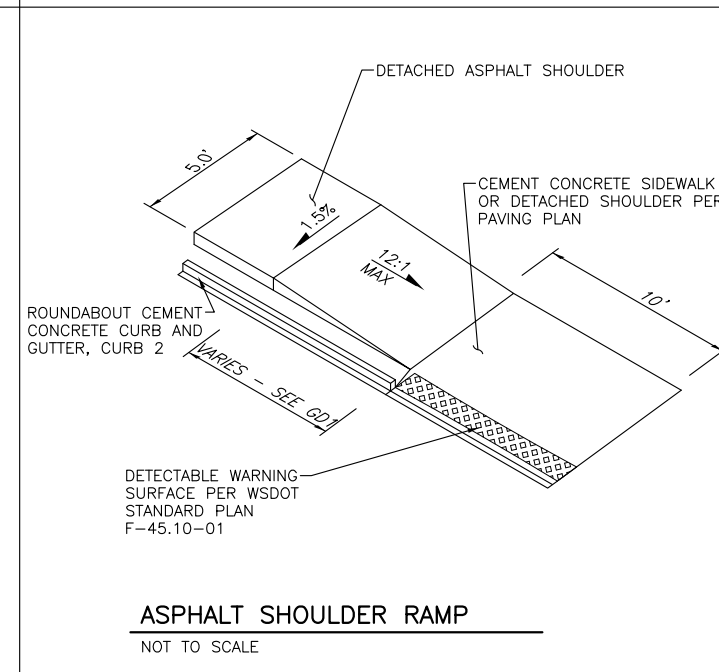
SIDEWALK IN BOULEVARD

NOT TO SCALE



CURB TRANSITION TYPE 4

NOT TO SCALE



ASPHALT SHOULDER RAMP

NOT TO SCALE

NO.	DATE	BY	REVISIONS



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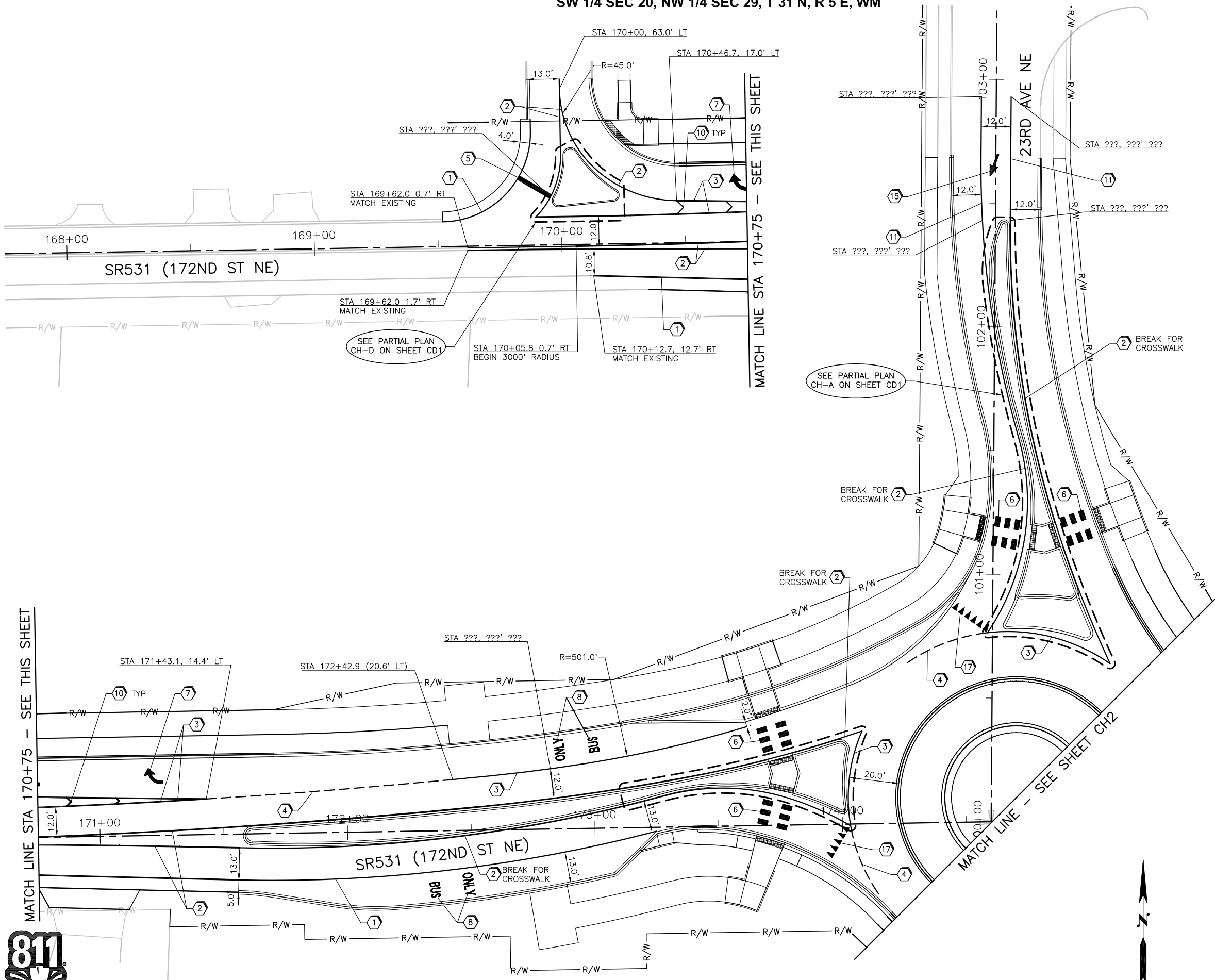
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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 MISCELLANEOUS DETAILS



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 25.2015.002
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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



- GENERAL NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTER OF STRIPE.
 2. SEE SHEET CD1 FOR CHANNELIZATION DETAILS.
 3. ALL STRIPING ADJACENT TO CURBS IS 1' OFFSET FROM FACE OF CURB UNLESS OTHERWISE NOTED.
 4. ALL PLASTIC MARKINGS SHALL BE TYPE D - LIQUID COLD APPLIED METHYL METHACRYLATE

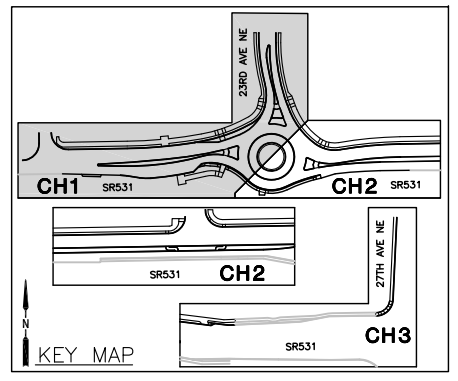
- CONSTRUCTION NOTES:**
- 1 WHITE PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
 - 2 YELLOW PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
 - 3 PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-02
 - 4 PLASTIC DOTTED WIDE LANE LINE PER WSDOT STD PLAN M-20.10-02
 - 5 WHITE PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-04
 - 6 TRIPLE FOURS PLASTIC CROSSWALK PER SNOHOMISH COUNTY CROSSWALK DETAIL 7-110
 - 7 WHITE PLASTIC TRAFFIC ARROW TYPE 2SR PER WSDOT STD PLAN M-24.40-01
 - 8 TRAFFIC LETTERS PER DETAIL ON SHEET CD1
 - 9 WHITE PLASTIC TRAFFIC ARROW TYPE TC PER WSDOT STD PLAN M-24.50-00
 - 10 WHITE PLASTIC 8" CROSSHATCH MARKING PER WSDOT STD PLAN M-24.60-04
 - 11 YELLOW PLASTIC TWO-WAY LEFT TURN CENTERLINE PER WSDOT STD PLAN M-20.10-02
 - 12 PLASTIC TRAFFIC ARROW TYPE 3SR PER WSDOT STD PLAN M-24.40-01
 - 13 PLASTIC TRAFFIC ARROW TYPE 2SL PER WSDOT STD PLAN M-24.40-01
 - 14 WHITE PLASTIC LANE LINE PER WSDOT STD PLAN M-20.10-02
 - 15 PLASTIC TRAFFIC ARROW TYPE 6R PER WSDOT STD PLAN M-24.20-01
 - 16 PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01
 - 17 PLASTIC YIELD LINE PER DETAIL ON SHEET CD1



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

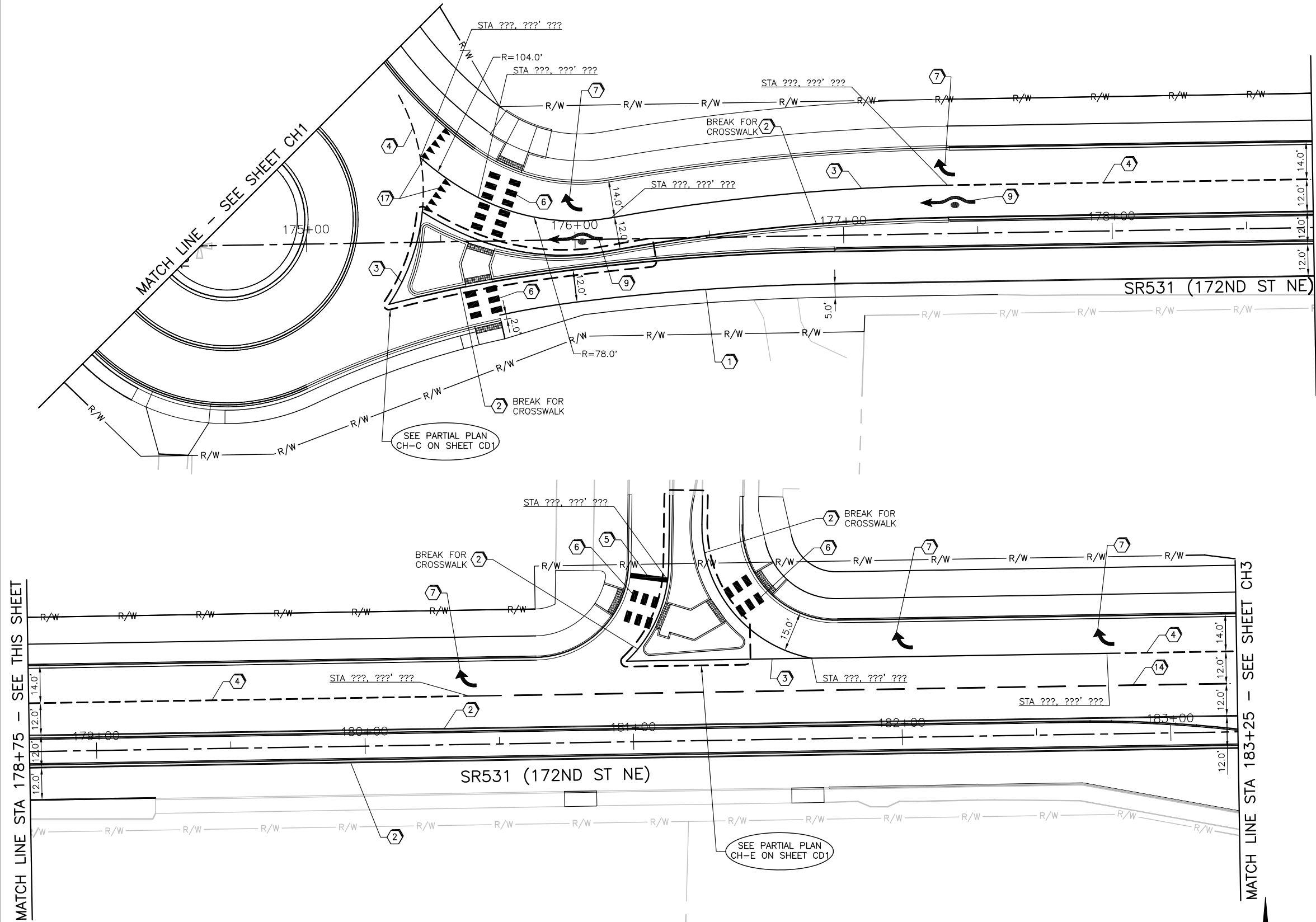
**100% SUBMITTAL
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 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 CHANNELIZATION PLAN



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GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTER OF STRIPE.
2. SEE SHEET CD1 FOR CHANNELIZATION DETAILS.
3. ALL STRIPING ADJACENT TO CURBS IS 1' OFFSET FROM FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL PLASTIC MARKINGS SHALL BE TYPE D - LIQUID COLD APPLIED METHYL METHACRYLATE

CONSTRUCTION NOTES:

- 1 WHITE PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
- 2 YELLOW PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
- 3 PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-02
- 4 PLASTIC DOTTED WIDE LANE LINE PER WSDOT STD PLAN M-20.10-02
- 5 WHITE PLASTIC STOP LINE PER WSDOT STD PLAN M-24.60-04
- 6 TRIPLE FOURS PLASTIC CROSSWALK PER SNOHOMISH COUNTY CROSSWALK DETAIL 7-110
- 7 WHITE PLASTIC TRAFFIC ARROW TYPE 2SR PER WSDOT STD PLAN M-24.40-01
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- 12 PLASTIC TRAFFIC ARROW TYPE 3SR PER WSDOT STD PLAN M-24.40-01
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- 14 WHITE PLASTIC LANE LINE PER WSDOT STD PLAN M-20.10-02
- 15 PLASTIC TRAFFIC ARROW TYPE 6R PER WSDOT STD PLAN M-24.20-01
- 16 PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01
- 17 PLASTIC YIELD LINE PER DETAIL ON SHEET CD1

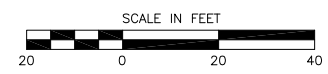
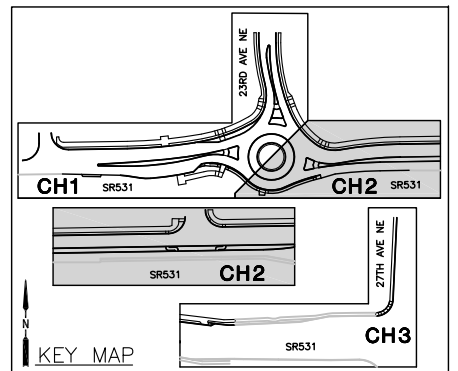
NO.	DATE	BY	REVISIONS



ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

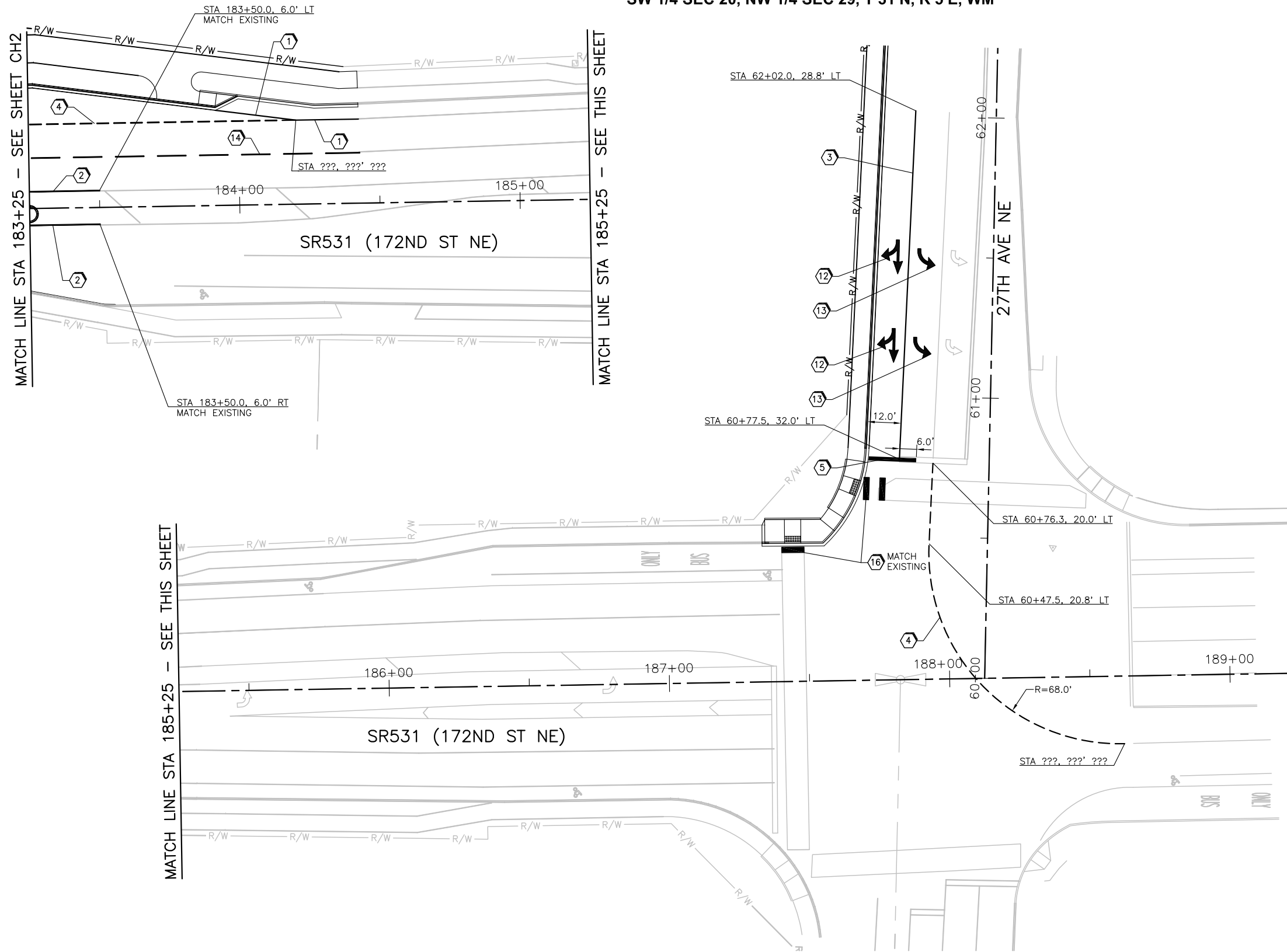
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**LAKEWOOD STATION/
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 CHANNELIZATION PLAN



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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTER OF STRIPE.
2. SEE SHEET CD1 FOR CHANNELIZATION DETAILS.
3. ALL STRIPING ADJACENT TO CURBS IS 1' OFFSET FROM FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL PLASTIC MARKINGS SHALL BE TYPE D - LIQUID COLD APPLIED METHYL METHACRYLATE

CONSTRUCTION NOTES:

- 1 WHITE PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
- 2 YELLOW PLASTIC EDGE LINE PER WSDOT STD PLAN M-20.10-02
- 3 PLASTIC WIDE LANE LINE PER WSDOT STD PLAN M-20.10-02
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- 16 PLASTIC CROSSWALK LINE PER WSDOT STD PLAN M-15.10-01
- 17 PLASTIC YIELD LINE PER DETAIL ON SHEET CD1

NO.	DATE	BY	Checked	REVISIONS	Approval

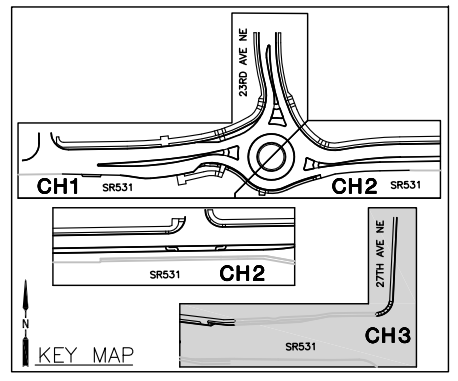
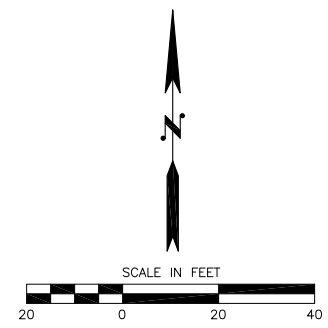


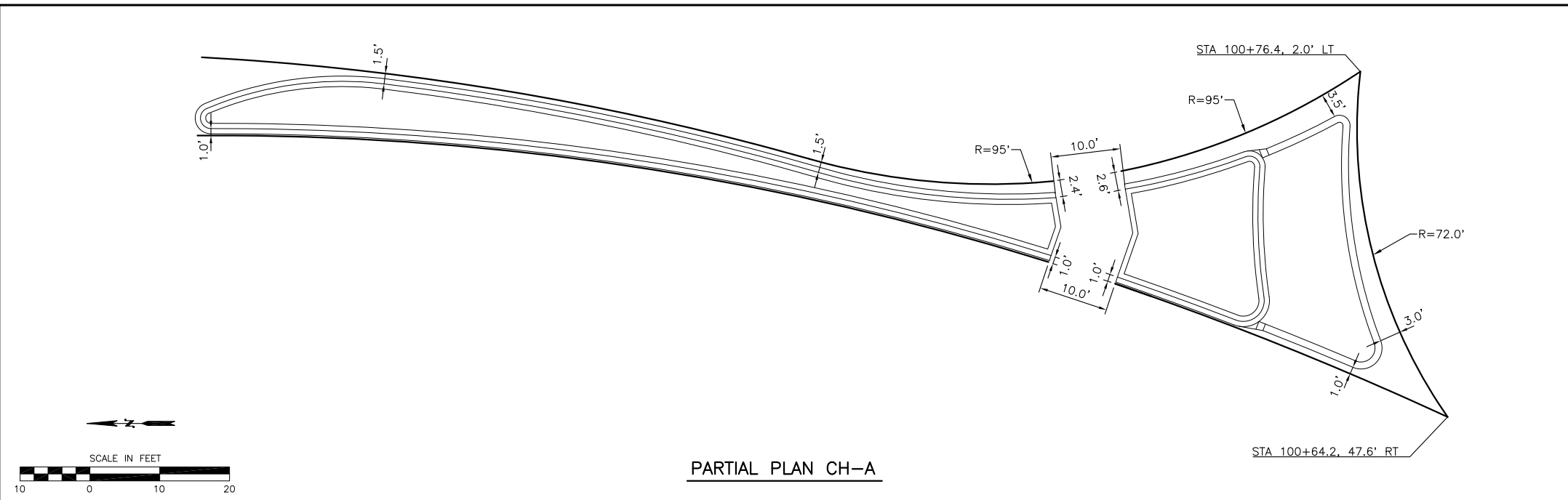
ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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 CHANNELIZATION PLAN

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 Project No.
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- GENERAL NOTES:**
1. SEE SHEETS CH1 - CH2 FOR LANE LINE TYPE.
 2. ALL DIMENSIONS TAKEN AT PC, PT, PCC, OR PRC UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTER OF STRIPE.

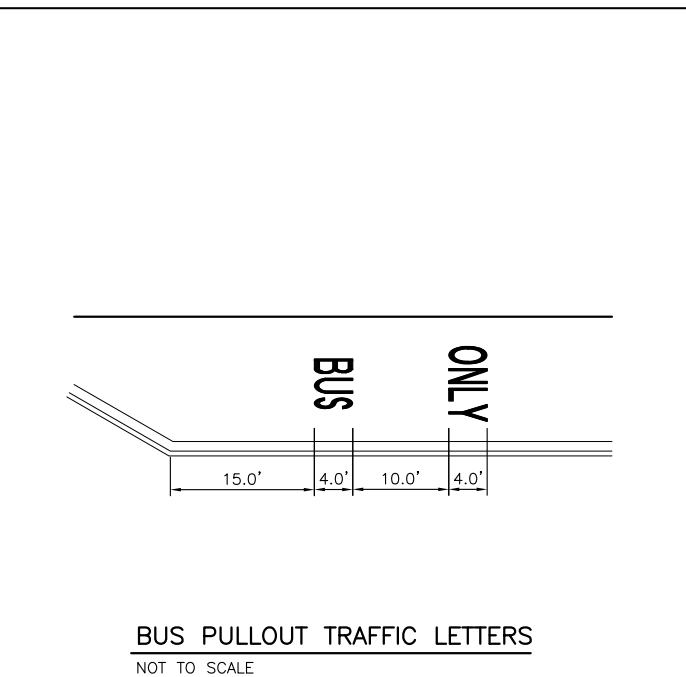
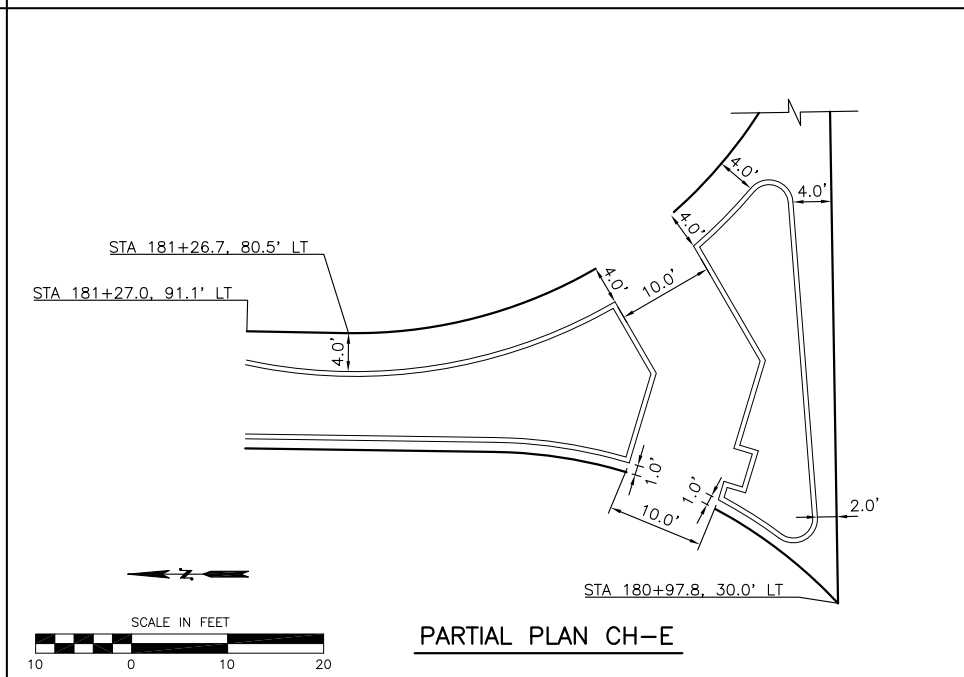
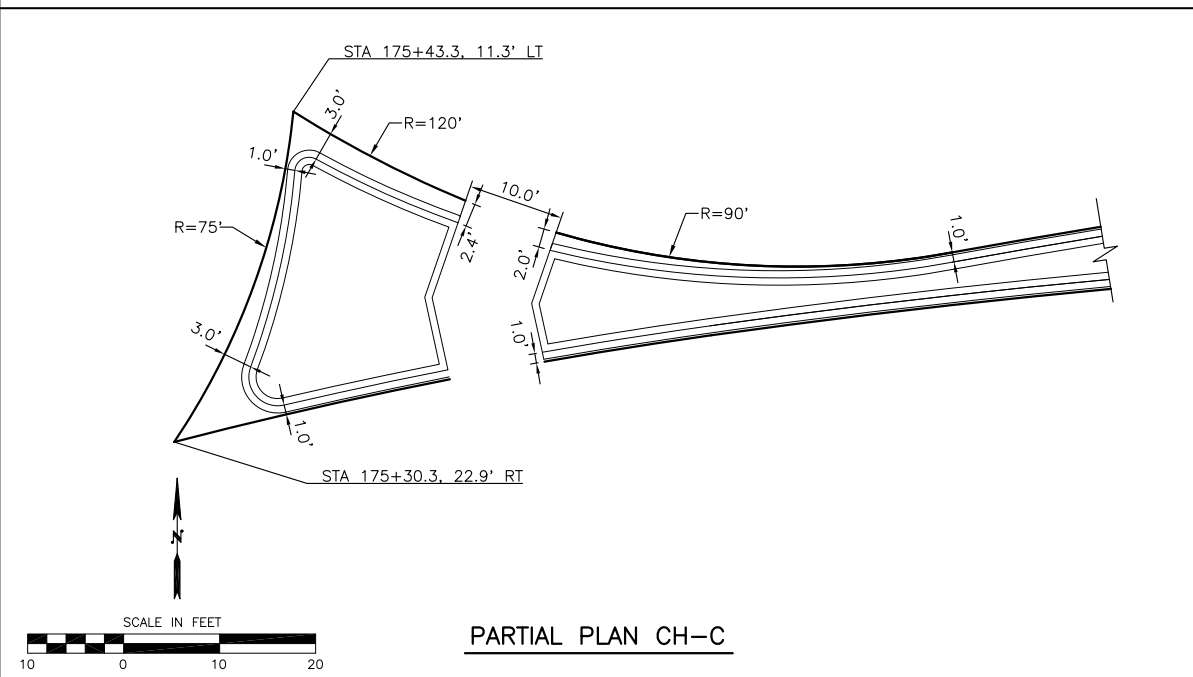
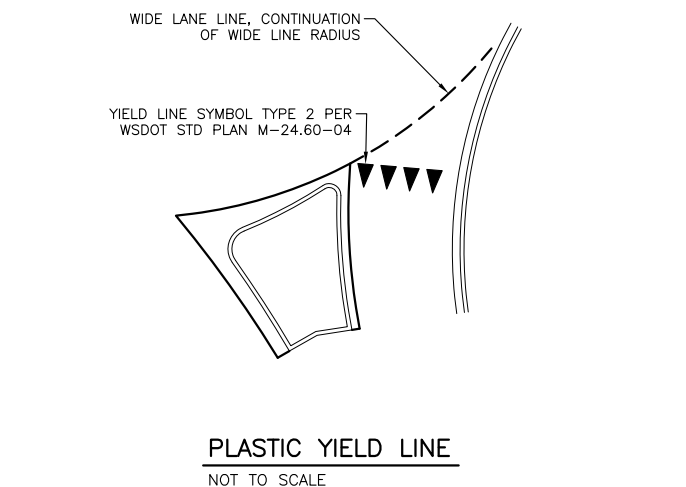
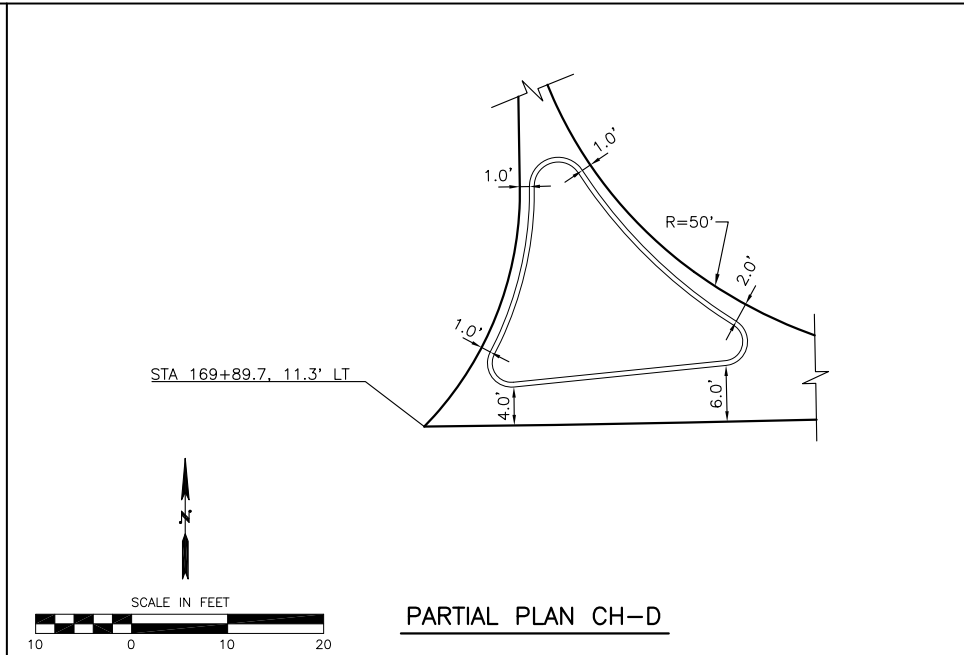
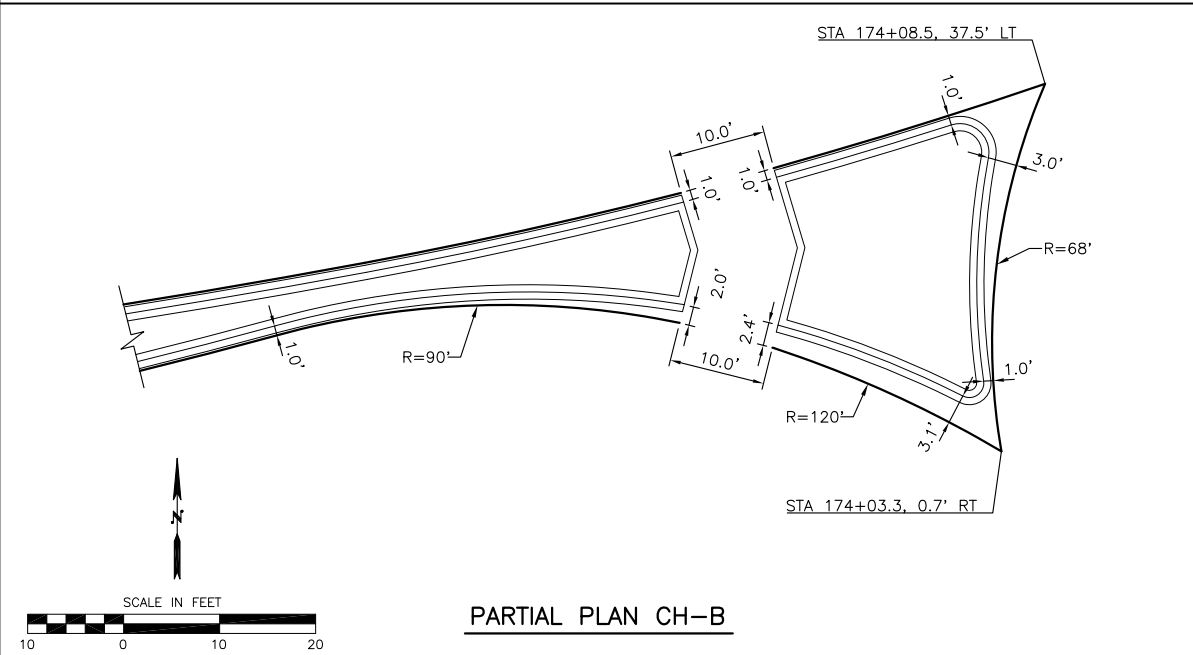
NO.	DATE	BY	Checked	Approval	REVISIONS



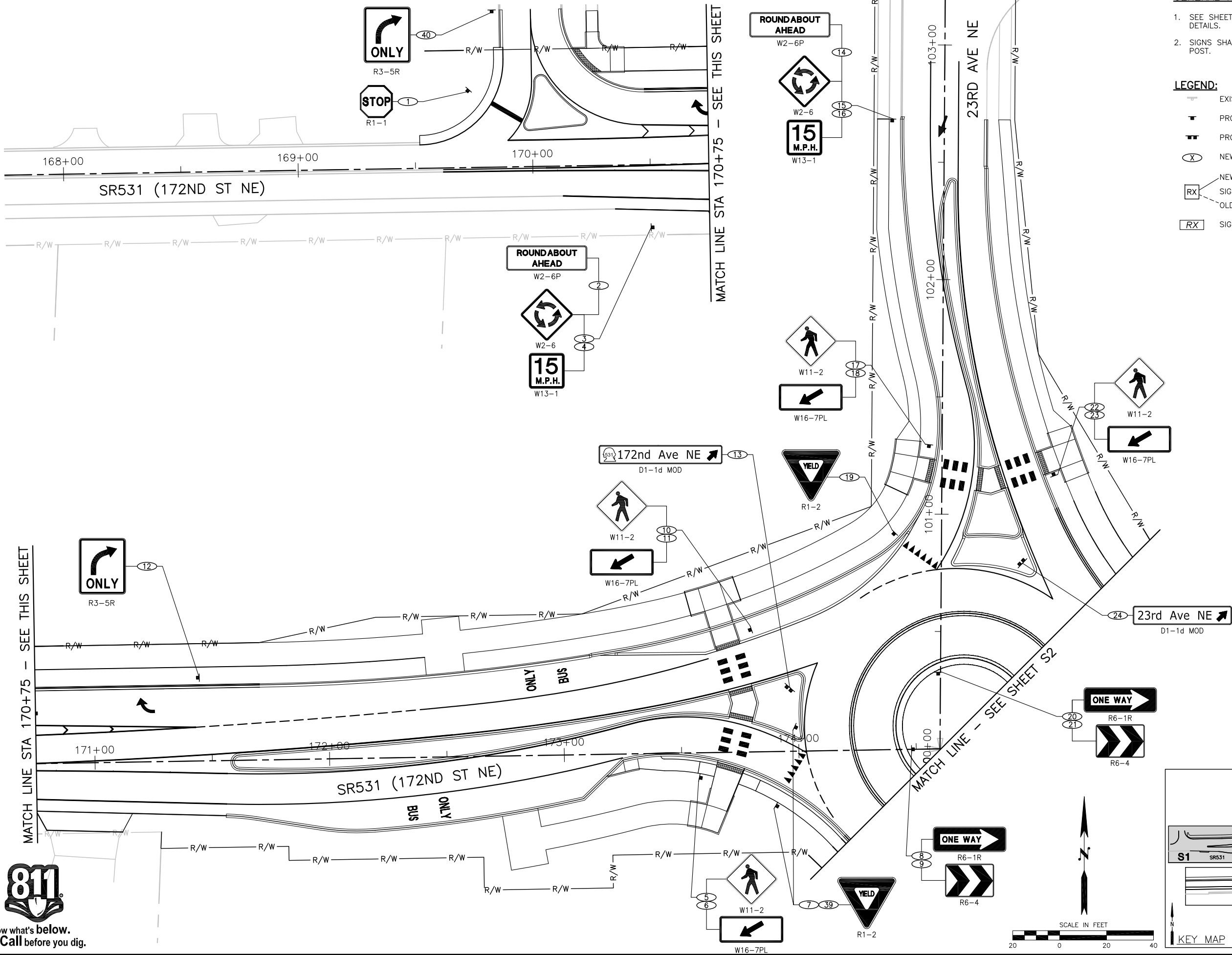
ENGINEER: RAK
 DESIGNED BY: RP
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 CHANNELIZATION DETAILS



SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



GENERAL NOTES:

1. SEE SHEET SD1 FOR SIGN SCHEDULE AND DETAILS.
2. SIGNS SHALL NOT BE BLOCKED BY LUMINAIRE POST.

LEGEND:

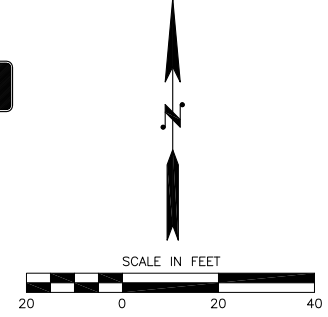
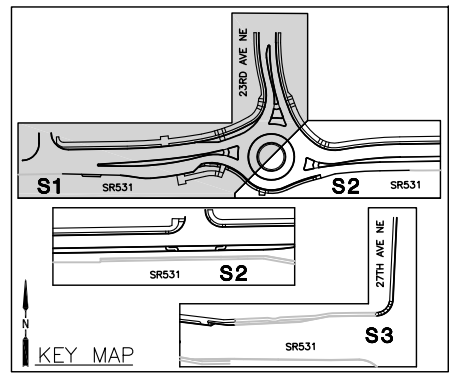
- EXISTING SIGN
- PROPOSED SIGN (1 POST)
- PROPOSED SIGN (2 POSTS)
- NEW SIGN
- X NEW LOCATION
- X SIGN RELOCATION
- X OLD LOCATION
- X SIGN REMOVAL



ENGINEER: RAK
 DESIGNED BY: KGH
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

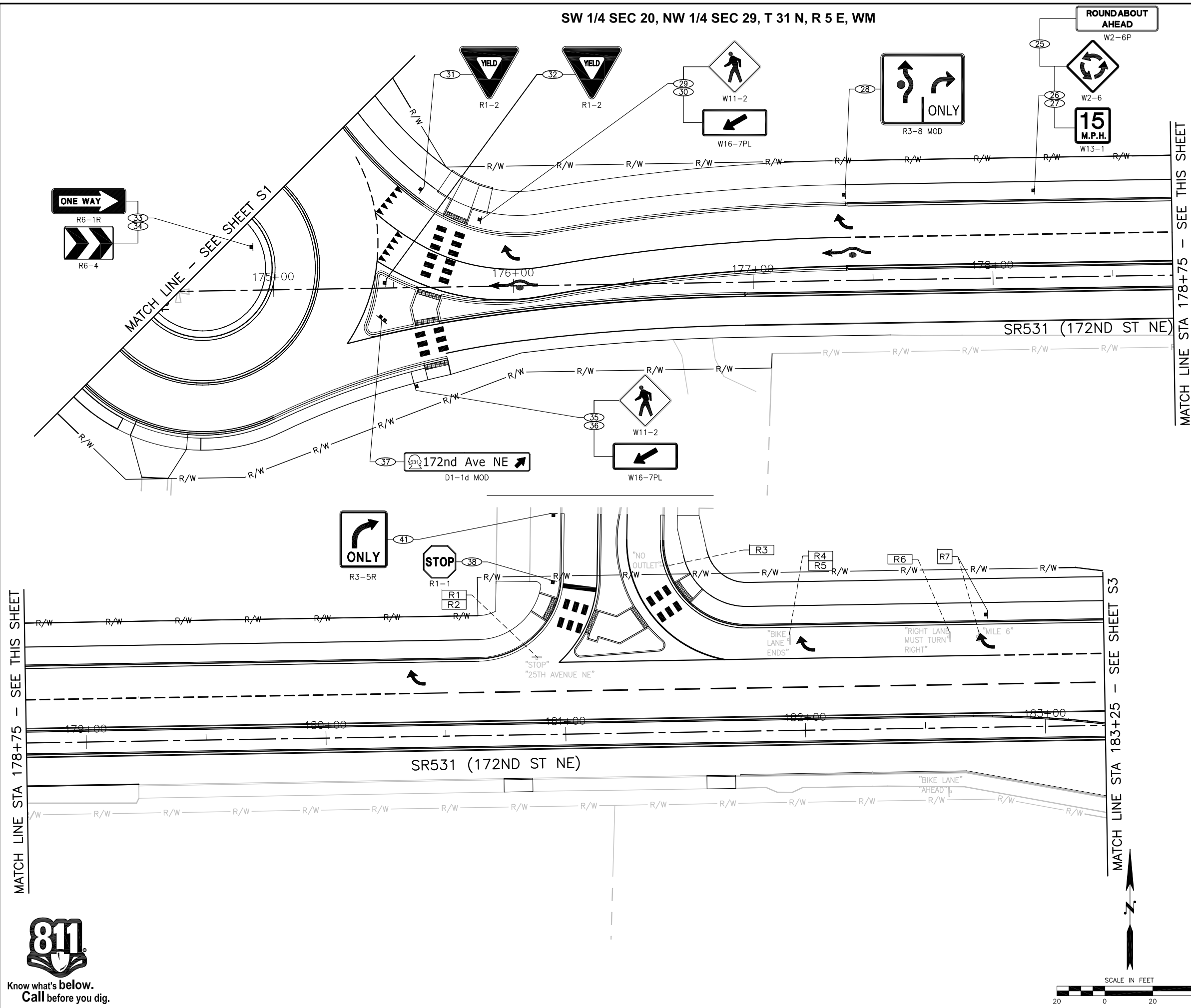
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LAKWOOD STATION/
 SR531 ROUNDABOUT
 SIGNING PLAN

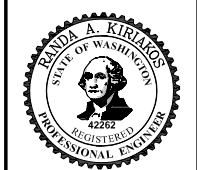


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SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



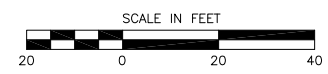
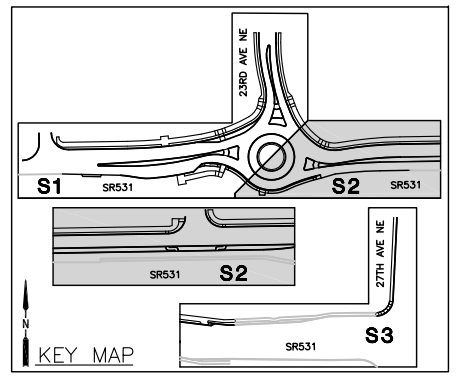
- GENERAL NOTES:**
- SEE SHEET SD1 FOR SIGN SCHEDULE AND DETAILS.
- LEGEND:**
- EXISTING SIGN
 - PROPOSED SIGN (1 POST)
 - PROPOSED SIGN (2 POSTS)
 - NEW SIGN
 - SIGN RELOCATION
 - OLD LOCATION
 - SIGN REMOVAL



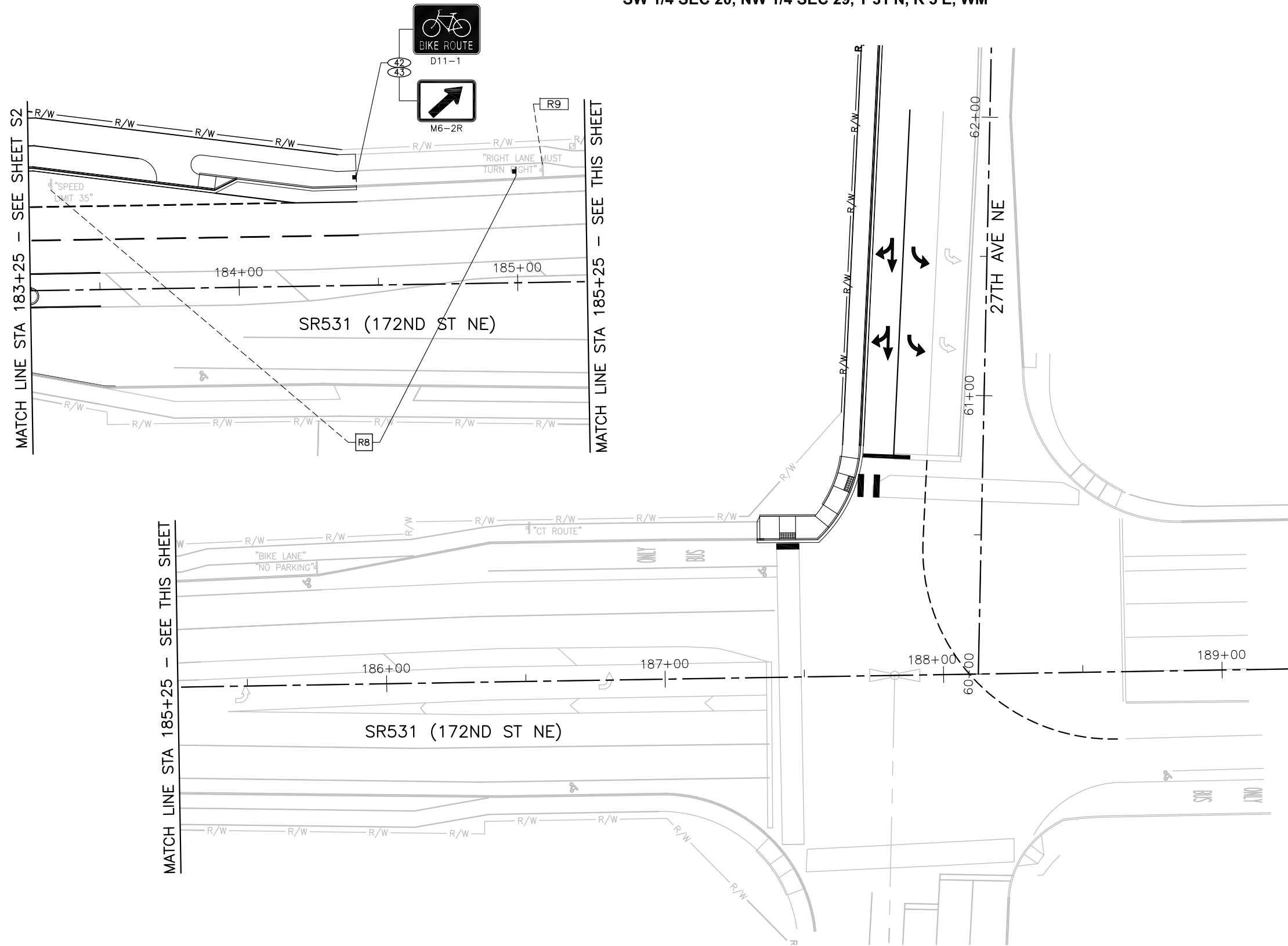
ENGINEER: RAK
 DESIGNED BY: KGH
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

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**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 SIGNING PLAN



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S2
 Sheet No. 43 OF 55



GENERAL NOTES:

- SEE SHEET SD1 FOR SIGN SCHEDULE AND DETAILS.

LEGEND:

- EXISTING SIGN
- PROPOSED SIGN (1 POST)
- PROPOSED SIGN (2 POSTS)
- NEW SIGN
- SIGN RELOCATION
- SIGN REMOVAL



ENGINEER: RAK
 DESIGNED BY: KGH
 DRAWN BY: KGH
 CHECKED BY: XXX
 DATE: XXX

**100% SUBMITTAL
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 CONSTRUCTION**

**LAKEWOOD STATION/
 SR531 ROUNDABOUT**
 SIGNING PLAN



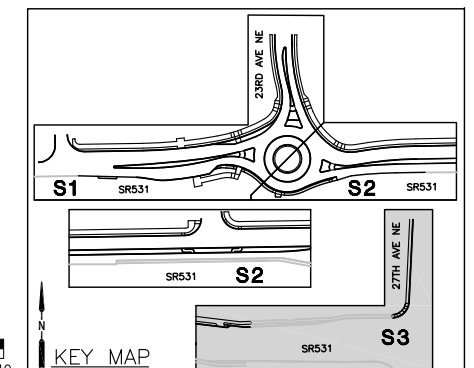
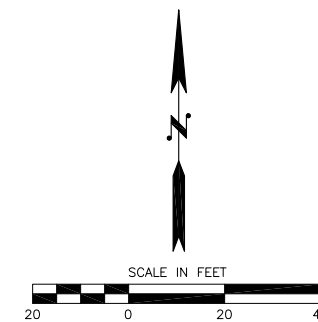
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25.2015.002

Project No.

S3

Sheet No.
 44 OF 55



LAKEWOOD STATION/SR531 ROUNDABOUT

SECTION 20, TOWNSHIP 31N, RANGE 5E, W.M.

BY	DATE	DESCRIPTION

DRAINAGE PLAN

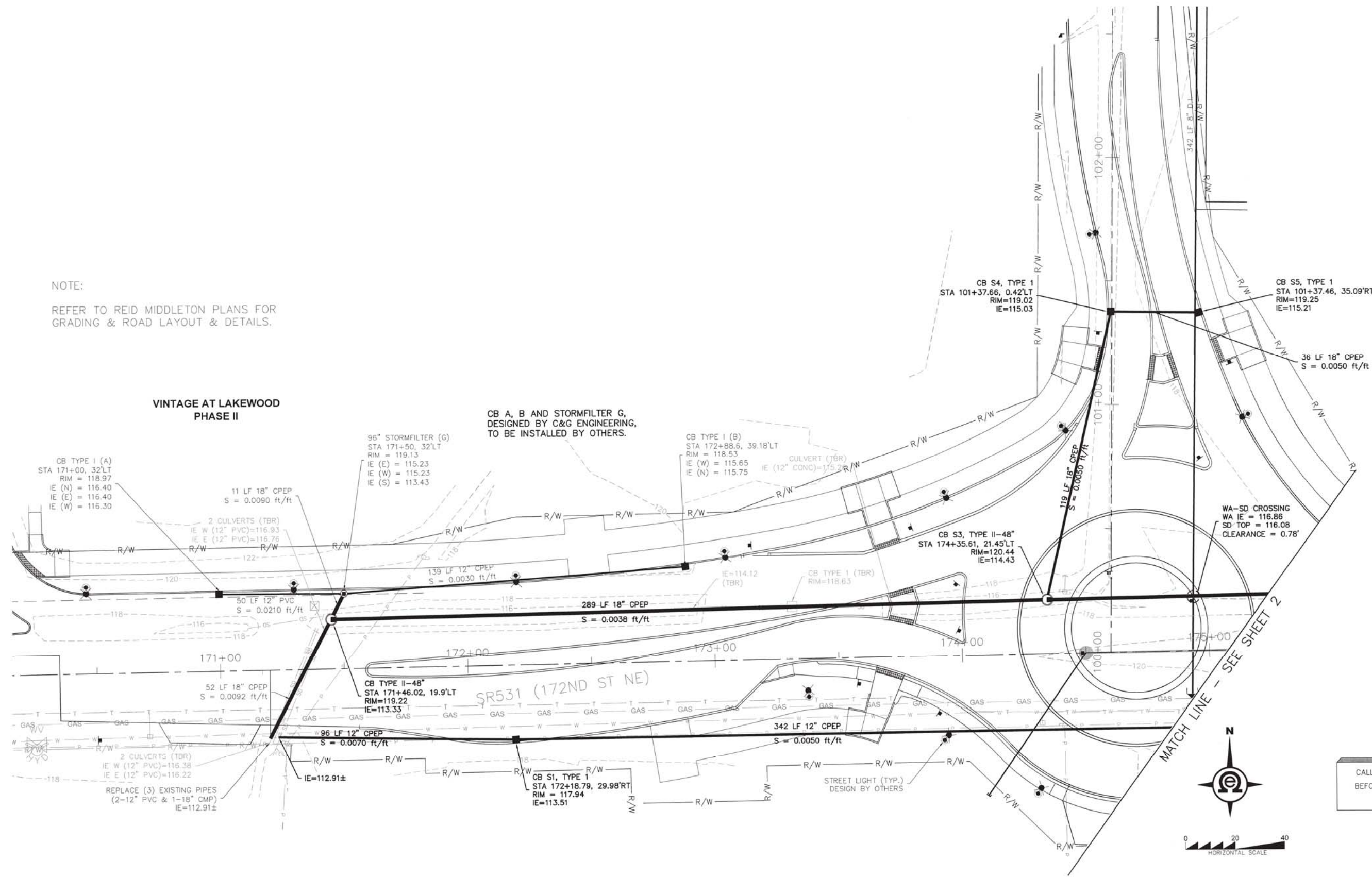
2707 WETMORE AVE.
EVERETT, WA 98201
t 425-387-3620
f 425-259-1958



LAKEWOOD STATION/
SR531 ROUNDABOUT
Marysville, Washington
PORTION OF SECTION 20, TOWNSHIP
31 NORTH, RANGE 5 EAST, W.M.
Smokey Point Commercial, LLC

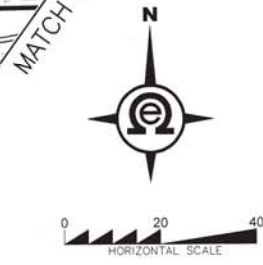
PROJ. NO.	11-066	DES. BY	JMS
DATE	5/19/15		
SCALE	1" = 20'		
DRAWING NO.	46	OF	55

NOTE:
REFER TO REID MIDDLETON PLANS FOR
GRADING & ROAD LAYOUT & DETAILS.



VINTAGE AT LAKEWOOD
PHASE II

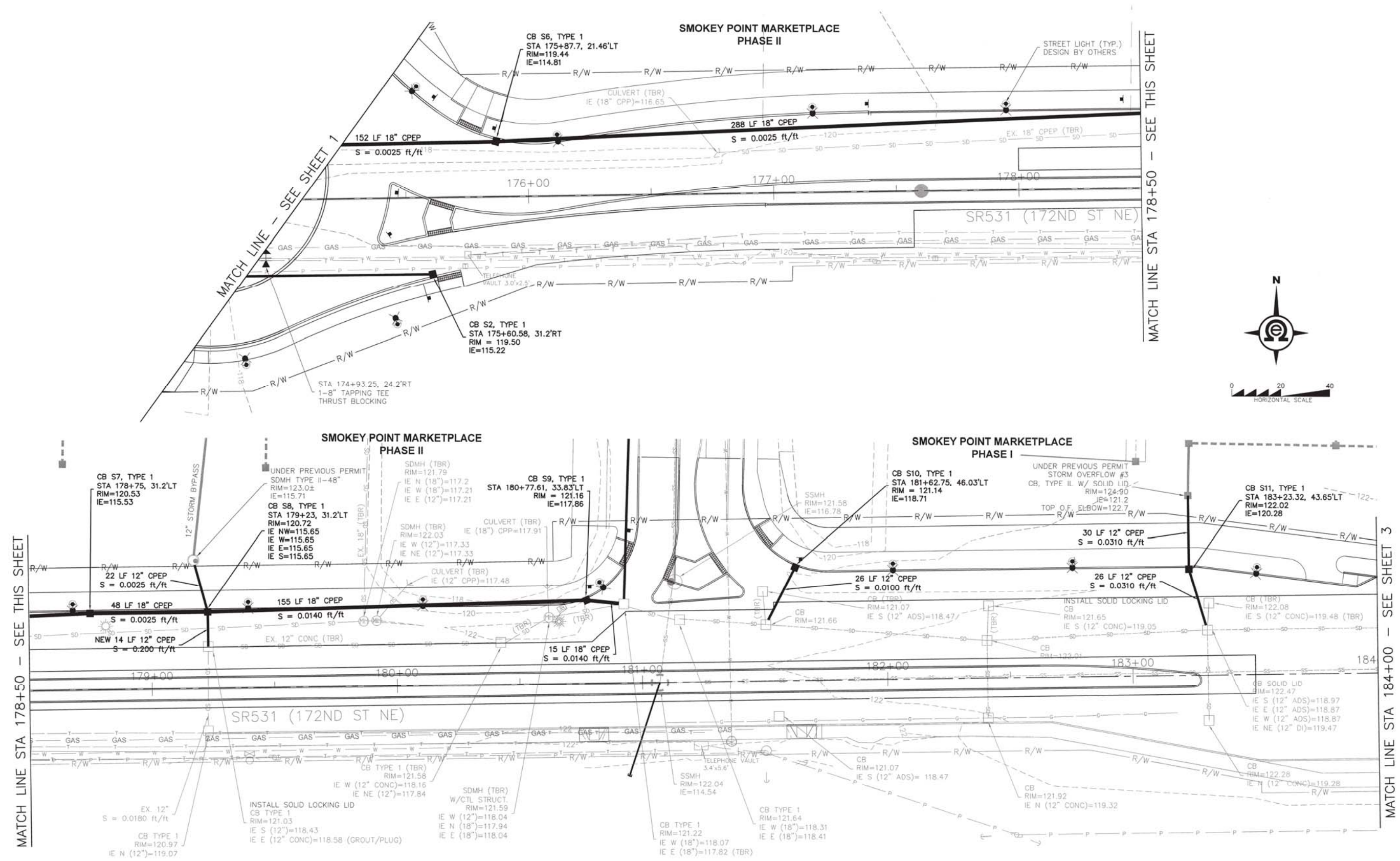
CB A, B AND STORMFILTER G,
DESIGNED BY C&G ENGINEERING,
TO BE INSTALLED BY OTHERS.



CALL 48 HOURS
BEFORE YOU DIG
811

LAKEWOOD STATION/SR531 ROUNDABOUT

SECTION 20, TOWNSHIP 31N, RANGE 5E, W.M.



MATCH LINE STA 178+50 - SEE THIS SHEET



MATCH LINE STA 178+50 - SEE THIS SHEET

MATCH LINE STA 184+00 - SEE SHEET 3

BY	DESCRIPTION	DATE	R#

DRAINAGE PLAN

2707 WETMORE AVE.
EVERETT, WA 98201
1.425.587.3820
1.425.259.1958

OMEGA ENGINEERING, INC.

**LAKEWOOD STATION/
SR531 ROUNDABOUT**

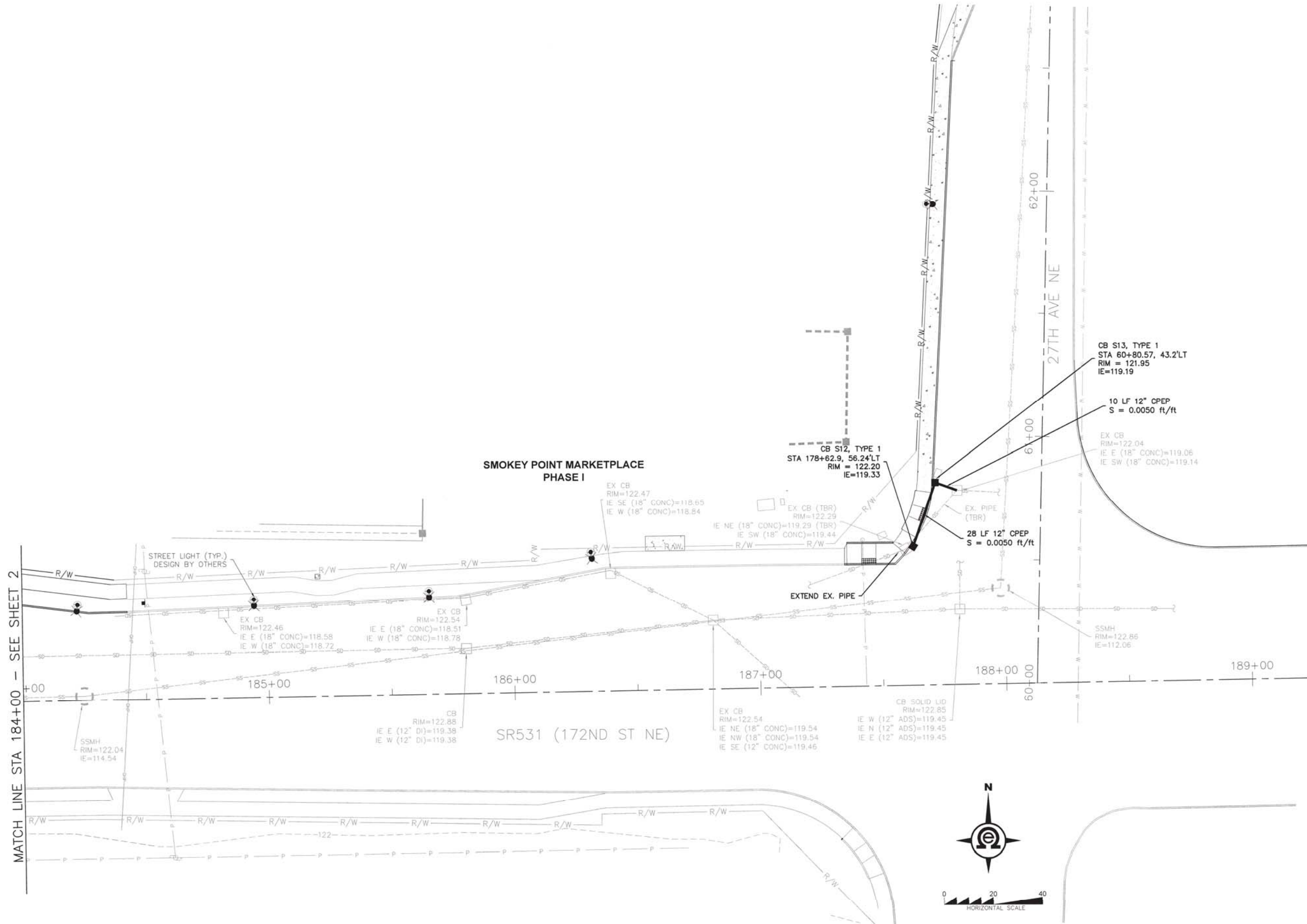
Marysville, Washington
PORTION OF SECTION 20, TOWNSHIP
31 NORTH, RANGE 5 EAST, W.M.
Smokey Point Commercial, LLC

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PROJ. NO.	11-066	DES. BY	JMS
DATE	5/19/15	SCALE	1" = 20'
DRAWING NO.	47	SHEET NO.	55

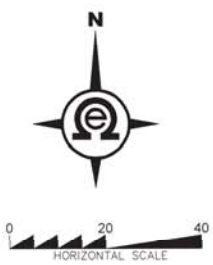
LAKEWOOD STATION/SR531 ROUNDABOUT

SECTION 20, TOWNSHIP 31N, RANGE 5E, W.M.



MATCH LINE STA 184+00 - SEE SHEET 2

CALL 48 HOURS
BEFORE YOU DIG
811



BY	DESCRIPTION	DATE



DRAINAGE PLAN

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EVERETT, WA 98201
1 425.387.3820
1 425.259.1958

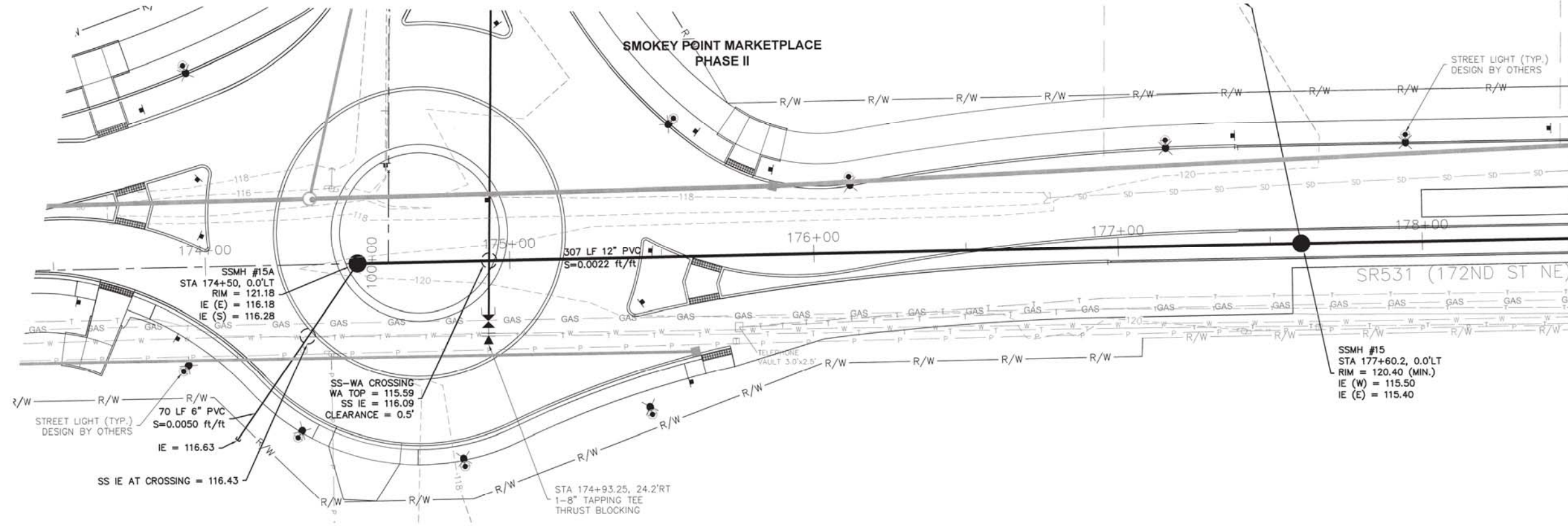


**LAKEWOOD STATION/
SR531 ROUNDABOUT**
Marysville, Washington
PORTION OF SECTION 20, TOWNSHIP
31 NORTH, RANGE 5 EAST, W.M.
Smokey Point Commercial, LLC

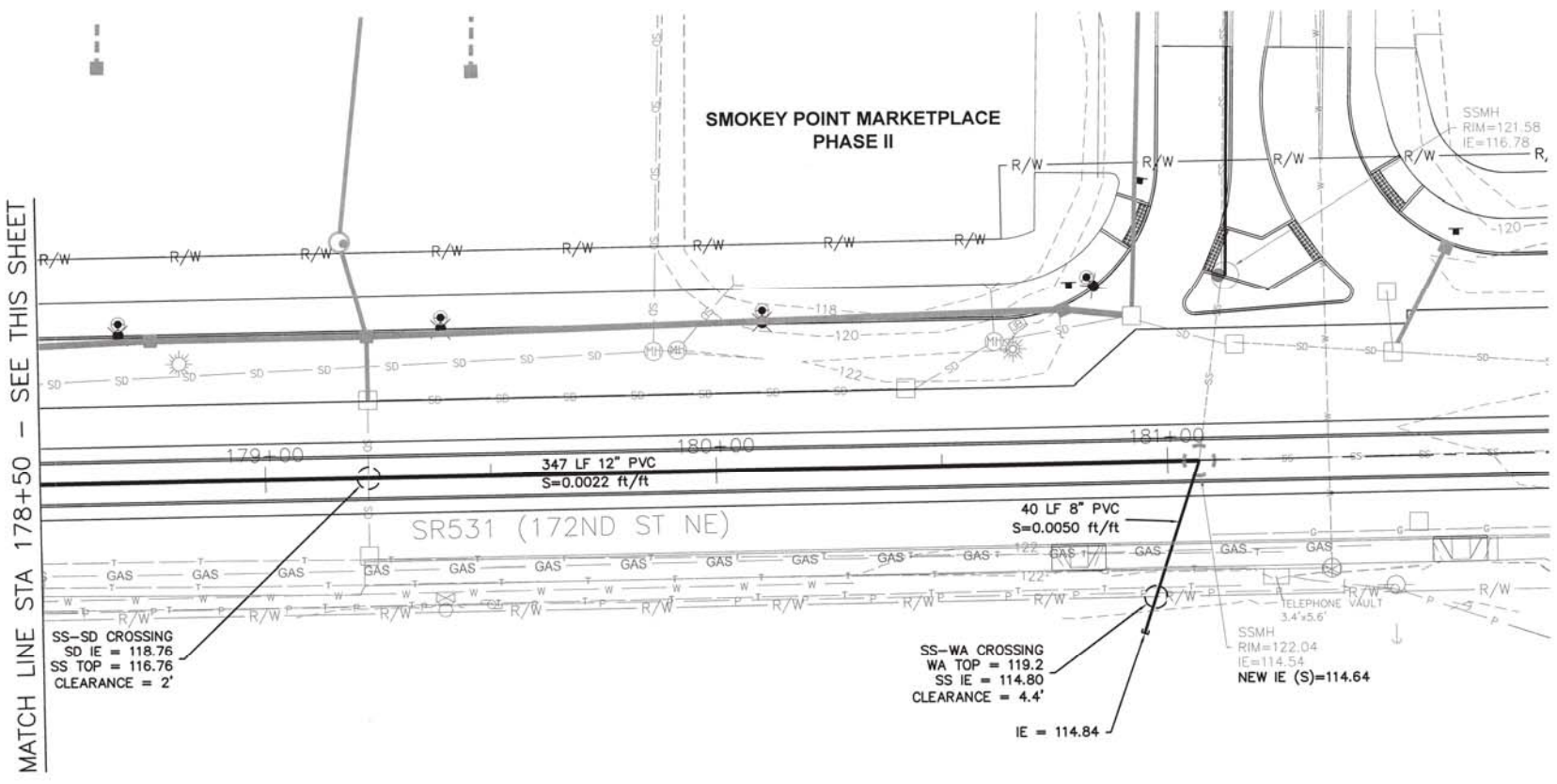
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DATE:	5/19/15		
SCALE:	1" = 20'		
DRAWING NO.	48	OF	55

LAKWOOD STATION/SR531 ROUNDABOUT

SECTION 20, TOWNSHIP 31N, RANGE 5E, W.M.



MATCH LINE STA 178+50 - SEE THIS SHEET



MATCH LINE STA 178+50 - SEE THIS SHEET

BY	DATE	DESCRIPTION



SEWER PLAN

2707 WETMORE AVE
EVERETT, WA 98201
t 425.387.3820
f 425.259.1958



**LAKWOOD STATION/
SR531 ROUNDABOUT**
Marysville, Washington
PORTION OF SECTION 20, TOWNSHIP
31 NORTH, RANGE 5 EAST, W.M.
Smokey Point Commercial, LLC

PROJ. NO. 11-066 DES. BY: JMS

DATE: 5/19/15
SCALE: 1" = 20'

DRAWING NO. 49 OF 55

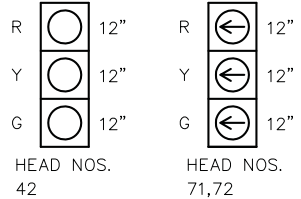
CALL 48 HOURS
BEFORE YOU DIG
811

T. 31N, R. 5E, W.M.
SEC. 20 & SEC. 29

WIRING SCHEDULE													
NO.	RACEWAY, CONDUIT SIZE	ILLUM #8	LODP #14	PPB 2C	PRE-EMPT. 3CS	PED HEADS 5C	VEH HEADS 5C	VEH HEADS 7C	VIDEO DETECT	ACTUAL FILL IN.	26% FILL IN.	REMARKS	
1**	EX. 3"	2		1	1	1	2	1	1			7C FOR POSSIBLE FUTURE OVERLAP	
2**	NEW 1.5"			1		1							
3**	NEW 3"	2		1	1	1	2	1	1				
4**	EX. 3"	2	2	2	1	2	2	1	1				
5	MASTARM								1*	1			
6	MASTARM				1				2*	2			

**NEW CONDUCTORS
ALL NEW CONDUIT SHALL BE SCHEDULE 80 PVC
**REPLACE ALL CONDUCTORS BACK TO CONTROLLER IF EXISTING CONDUCTORS ARE TOO SHORT FOR NEW CONDUIT PATH

SIGNAL HEAD DISPLAYS



SIGNING NOTES

1 R3-SL LEFT TURN ARROW, 30"x36"

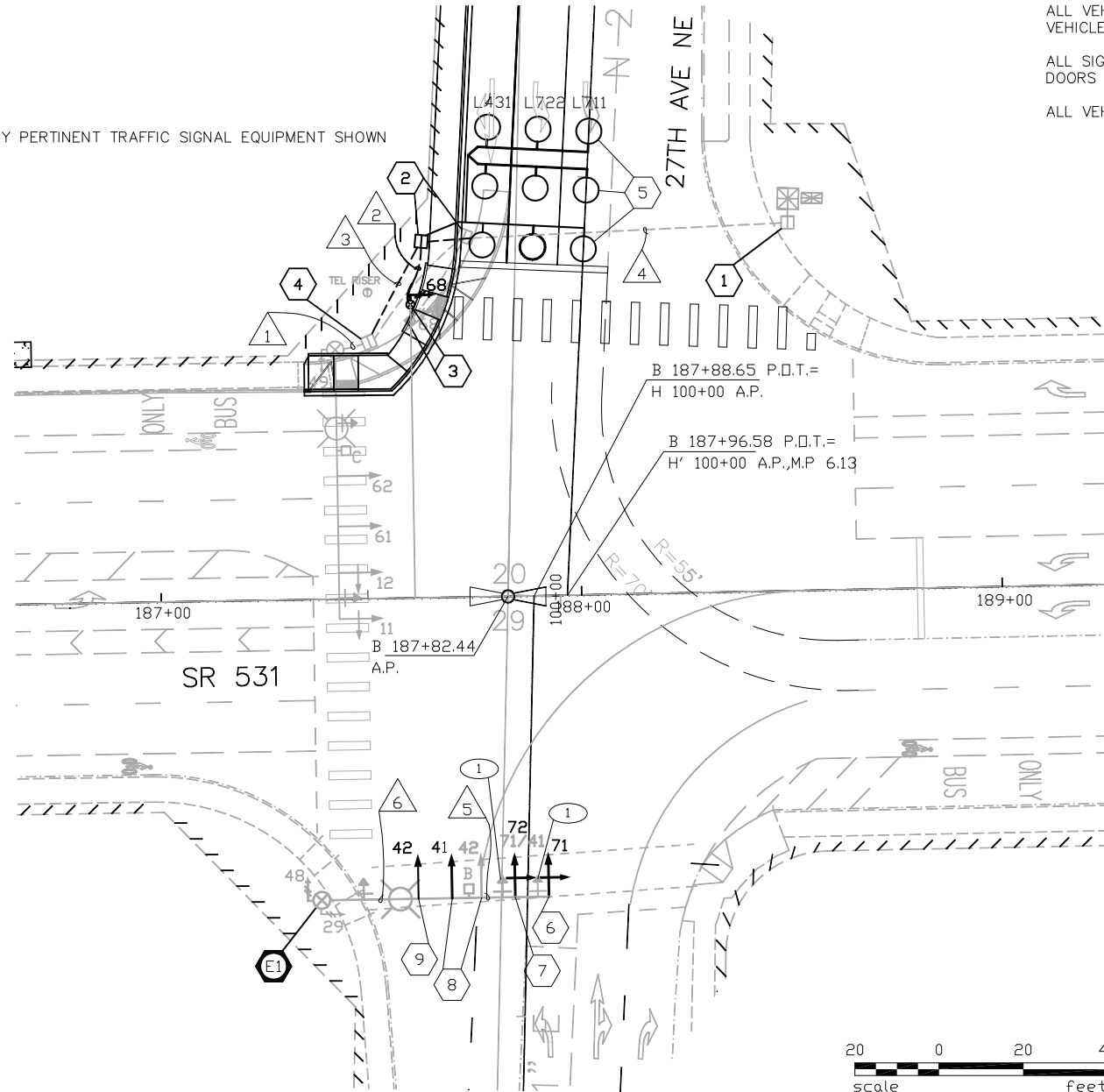
GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE SPECIAL PROVISIONS, THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (CURRENT EDITION), AND THE WSDOT STANDARD PLANS.

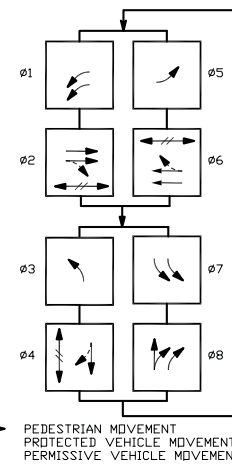
CONSTRUCTION NOTES

- DISCONNECT CONDUCTORS AT NW CORNER TRAFFIC SIGNAL STANDARD AT TERMINAL CABINET. DISCONNECT CONDUCTORS AT PEDESTRIAN POLE. PULL CONDUCTORS BACK TO JUNCTION BOX ON NE CORNER.
- RELOCATE EXISTING TYPE 7 JUNCTION BOX BEHIND NEW SIDEWALK. EXTEND EXISTING CONDUITS TO NEW JUNCTION BOX LOCATION.
- CONSTRUCT NEW FOUNDATION AT STA 187+60.5, 70.0' LT. RELOCATE EXISTING PEDESTRIAN POLE, PPB AND PEDESTRIAN HEAD TO NEW FOUNDATION. INSTALL NEW CONDUIT TO RELOCATED JUNCTION BOX. REMOVE EXISTING PEDESTRIAN POLE FOUNDATION.
- ADJUST EXISTING JUNCTION BOX IF NECESSARY BEHIND NEW SIDEWALK. ADJUST AND/OR EXTEND EXISTING CONDUITS AS NECESSARY. ROUTE EXISTING CONDUCTORS FROM NE CORNER JUNCTION BOX BACK TO NW CORNER JUNCTION BOXES AND SIGNAL POLES. MAKE ELECTRICAL CONNECTIONS AS EXISTING. IF EXISTING CONDUCTORS WILL NOT REACH SIGNAL POLES, REPLACE CONDUCTORS BACK TO TRAFFIC SIGNAL CONTROLLER.
- INSTALL NEW TYPE 3 STOP LINE INDUCTION LOOPS PER WSDOT STANDARD PLAN J-50.12-00 AND J-50.15-00. ROUTE NEW CONDUCTORS BACK TO CONTROLLER CABINET.
- INSTALL NEW 3-SECTION LEFT TURN TRAFFIC SIGNAL HEAD ON EXISTING TENON. MAKE ELECTRICAL CONNECTIONS BACK TO TERMINAL CABINET.
- REMOVE EXISTING DOGHOUSE STYLE TRAFFIC SIGNAL HEAD AND LEFT TURN YIELD ON GREEN BALL SIGN. INSTALL NEW 3-SECTION LEFT TURN TRAFFIC SIGNAL HEAD ON EXISTING TENON. MAKE NECESSARY ELECTRICAL CONNECTIONS.
- INSTALL NEW TRAFFIC SIGNAL TENON AS SHOWN ON POLE DETAIL SHEET. RELOCATE EXISTING 3 SECTION BALL DISPLAY SIGNAL HEAD TO NEW TENON AND MAKE NECESSARY ELECTRICAL CONNECTIONS TO TERMINAL CABINET. CAP EXISTING TENON.
- INSTALL NEW TRAFFIC SIGNAL TENON AS SHOWN ON POLE DETAIL SHEET. INSTALL NEW 3-SECTION BALL TRAFFIC SIGNAL HEAD ON NEW TENON. MAKE ELECTRICAL CONNECTIONS BACK TO TERMINAL CABINET.

ONLY PERTINENT TRAFFIC SIGNAL EQUIPMENT SHOWN



PHASING

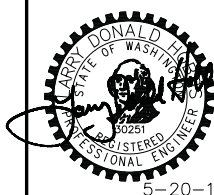


LEGEND

EXISTING	NEW	EXISTING	NEW
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FILE NAME: SR 531-27TH CHAN PLAN TRAFFEX	REGION NO. 10	STATE WASH.
TIME: 03/18/14	JOB NUMBER	
PLOTTED BY: LDH	CONTRACT NO.	
DESIGNED BY: LDH		
ENTERED BY: LDH		
CHECKED BY: VJC		
PROJ. ENGR.: LDH	PER WSDOT COMMENTS	5-20-15 LDH
REGIONAL ADM.:	REVISION	DATE BY

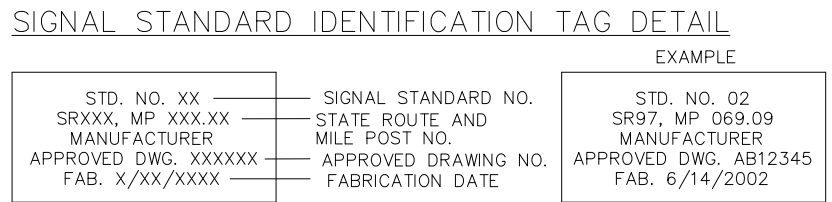
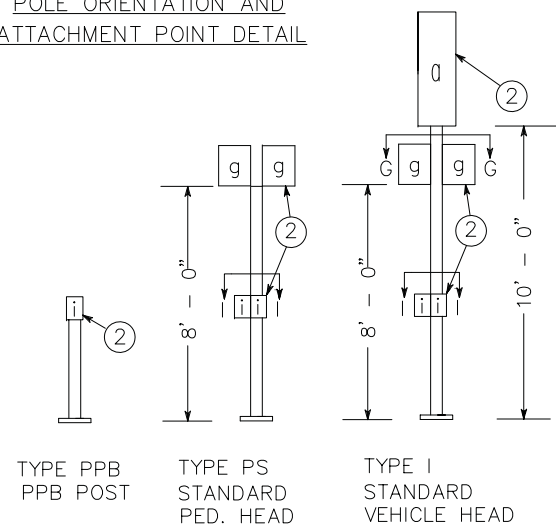
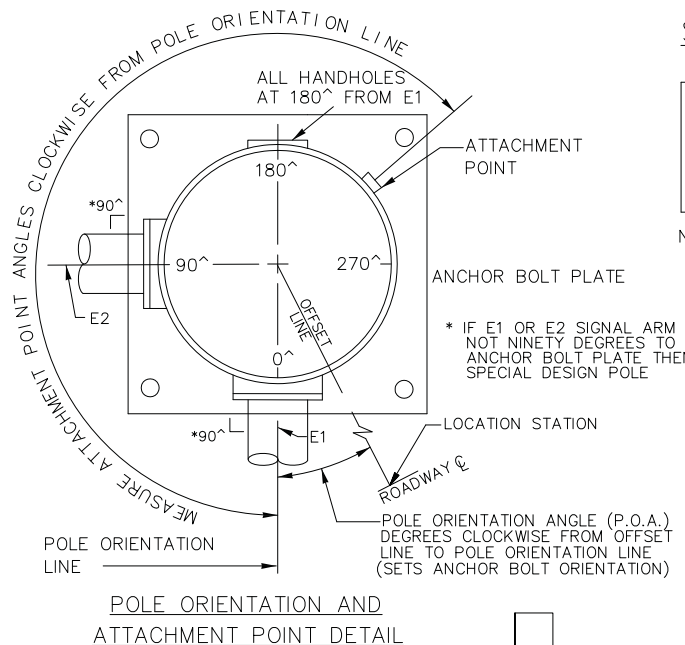
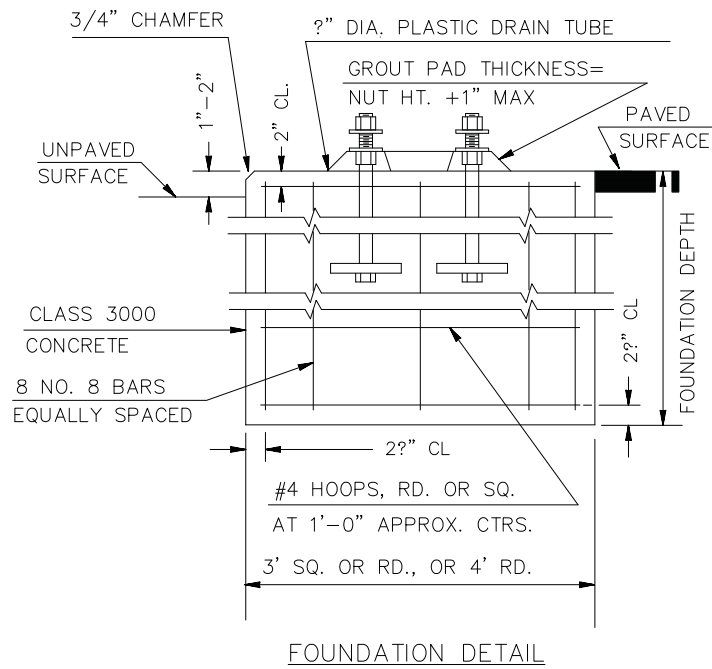


SR 531	MP 6.12
LAKEWOOD STATION	
SR 531/27TH AVE NE	
MARYSVILLE/SNOHOMISH	FEBRUARY 2015
TRAFFIC SIGNAL MODIFICATION	

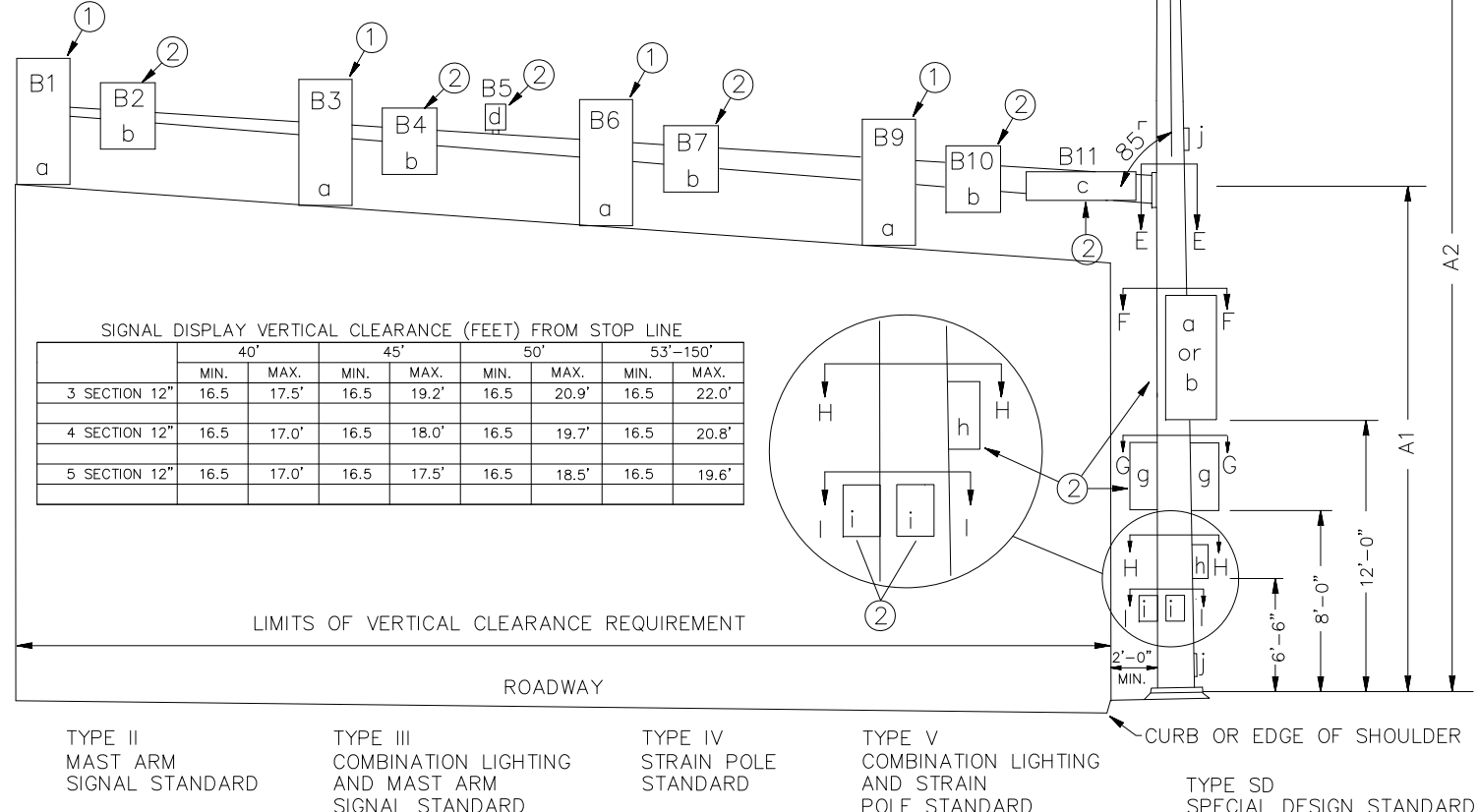
TS1
SHEET 50 OF 55 SHEET

ALLOWABLE LATERAL BEARING PRESSURE (psf)	FOUNDATION TYPE	XYZ (CUBIC FEET)					
		TYPE II, III AND SD MAST ARM STANDARDS					
1,000	3' ROUND	10'	10'	11'	11'	13'	15'
	4' ROUND	8'	8'	9'	9'	10'	11'
1,500	3' ROUND	8'	8'	9'	11'	13'	15'
	4' ROUND	7'	7'	7'	8'	8'	9'
2,500	3' ROUND	6'	6'	7'	11'	13'	15'
	4' ROUND	6'	6'	6'	6'	7'	7'

THIS TABLE BASED ON A ϕ VALUE OF 26°. FOR DOUBLE MAST ARM STANDARDS WITH 90° BETWEEN ARMS, USE THE LARGER XYZ VALUE FOR FOUNDATION DEPTH SELECTION. A SPECIAL FOUNDATION DESIGN IS REQUIRED FOR DOUBLE ARM STANDARDS IF THE ANGLE IS NOT 90°.



NOTE: CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS: POLE SHAFT - LOCATED WITHIN 6" ABOVE HAND HOLE, SIGNAL AND LUMINAIRE MAST ARM - LOCATED WITHIN 6" OF THE POLE SHAFT CONNECTION POINT. TEXT SHALL BE A MINIMUM OF 7" HIGH, STAMPED OR EMBOSSED.



SIGNAL STANDARD DETAIL CHART

STD. No.	SR No.	STREET NAME	FIELD LOCATION				TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA											LUMINAIRE ARM (FT)	POLE ATTACHMENT POINT ANGLES (deg)						FOUNDATION DEPTHS (FT)			REMARKS										
			STATION	OFFSET	LT.	RT.		P.O.A.	A1	A2	OFFSET DISTANCES (FT)					WINDLOAD AREAS (FT) ² (X)(Y)						C	D	E1	E2	F	G1	G2	H	I1		I2	3' RD.	3' SQ.	4' RD.						
											B1	B2	B3	B4	B5	B6	B7	B9	B11	B1																B2	B3	B4	B6	B7	B9
⊕	531		187+37	71.5	X	90	III	18	54	51	46	43	35	38	31*	23*	10	9.2	7.5	9.2	7.5	9.2	9.2	9.2	9.2	12	2030	16	0	0			90	180	135	0	270	15	11	11	EXISTING POLE

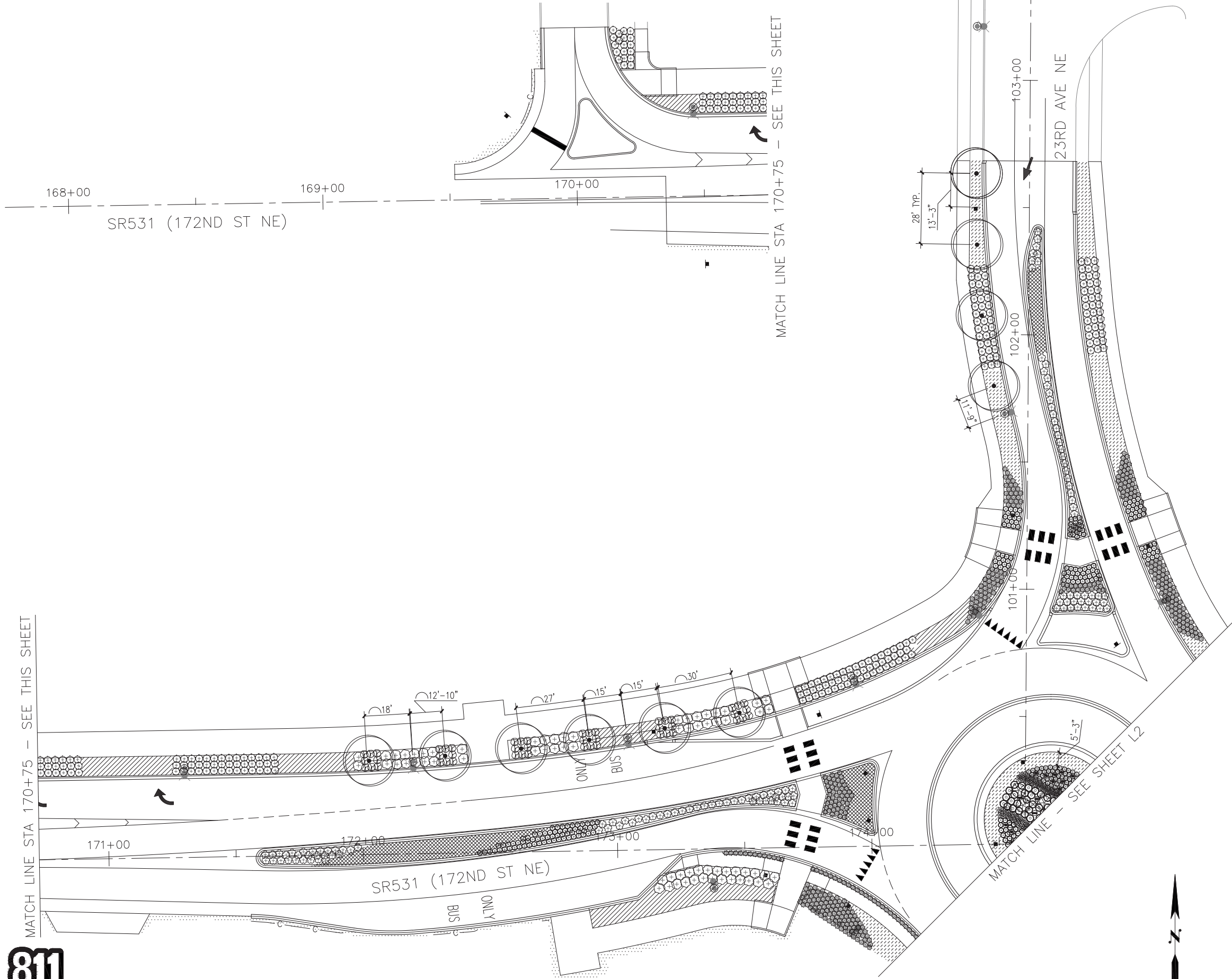
- LEGEND**
- a. Vehicle Display
 - b. Sign
 - c. Street Name Sign
 - d. Pre-Empt Detector
 - e. Deleted (10/22/90)
 - f. Luminaire
 - g. Pedestrian Display
 - h. Cabinet
 - i. PPB-M
 - j. Handhole
 - k. VIDEO DETECTION

* NEW TENON LOCATION

- NOTES**
- ① MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.
 - ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY DRILL 1" HOLE IN MAST ARM AND install plastic SPLIT BUSHING for cable entrance.
 - ② FIELD INSTALLED.

FILE NAME: SR 531-27TH CHAN PLAN TRAFFEX	REGION NO. 10	STATE WASH.	JOB NUMBER	CONTRACT NO.	DATE	BY				SR 531	MP 6.12	LAKWOOD STATION SR 531/27TH AVE NE	MARYSVILLE/SNOHOMISH	FEBRUARY 2015	TS2	SHEET 51 OF 55 SHEET
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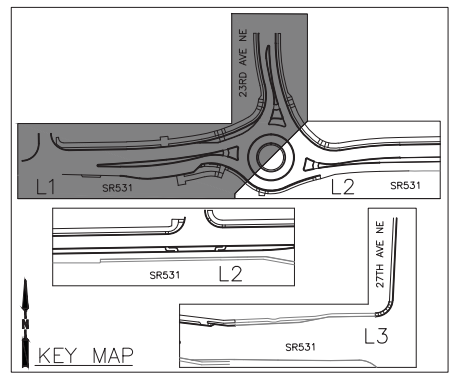
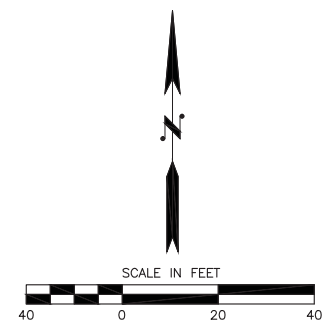
SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM



MATCH LINE STA 170+75 - SEE THIS SHEET

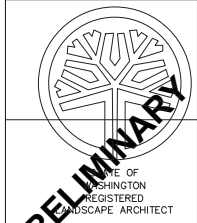
MATCH LINE STA 170+75 - SEE THIS SHEET

MATCH LINE - SEE SHEET L2



NO.	DATE	BY	Checked/Approval	REVISIONS

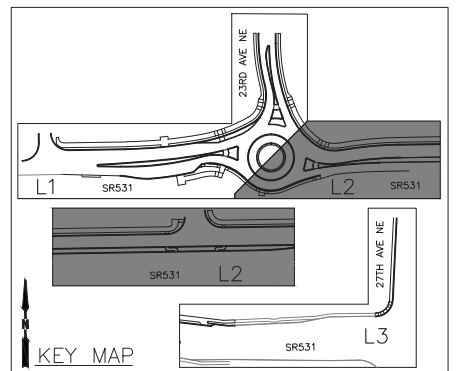
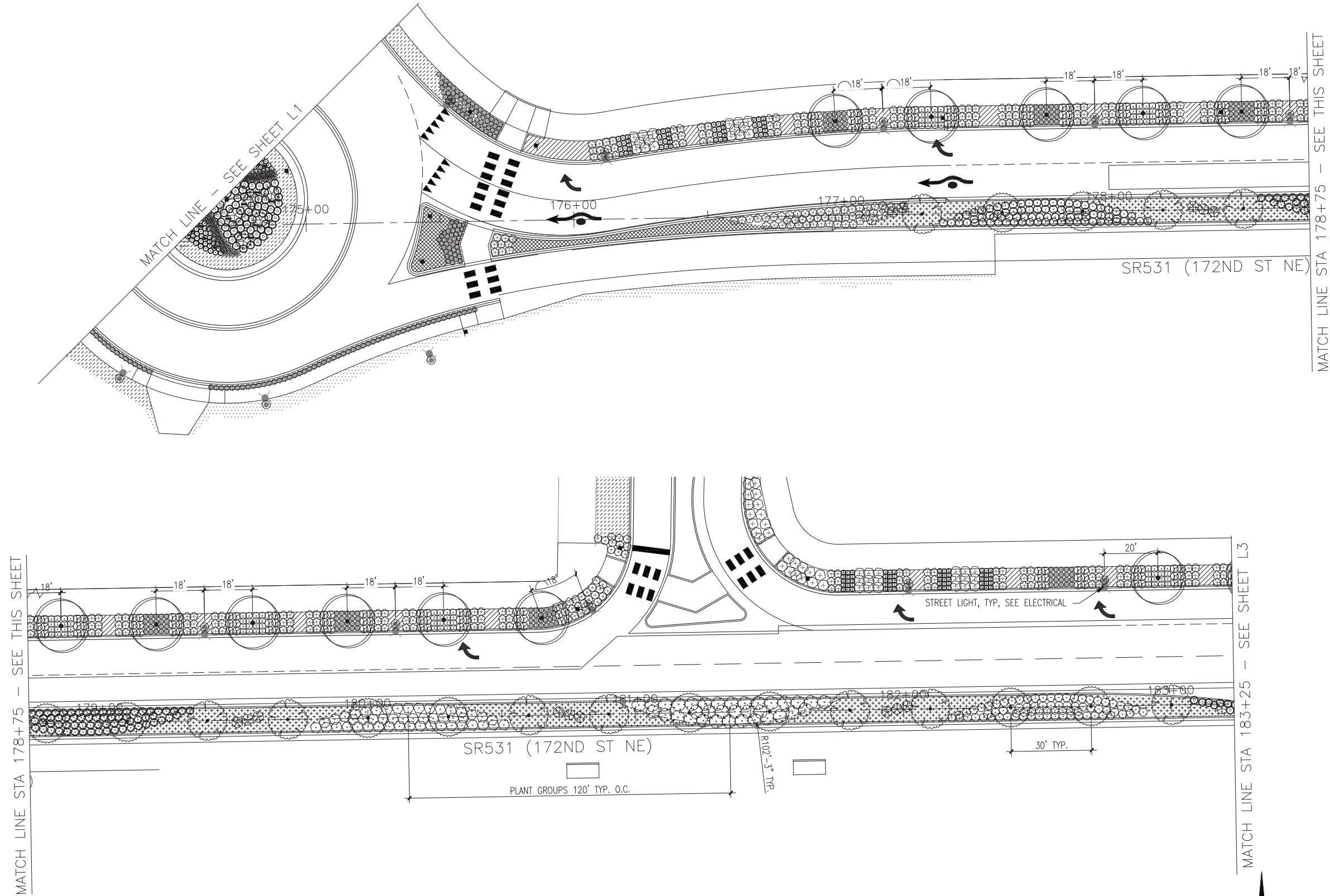
ENGINEER:
 DESIGNED BY: BS/MS/MH
 DRAWN BY: BS/MS/MH
 CHECKED BY: TR
 DATE: 5/15/2015



THOMAS V. RENGSTORF
 CERTIFICATE NO. 298

PRELIMINARY
 LAKewood STATION/
 SR531 ROUNDABOUT
 LANDSCAPE PLAN



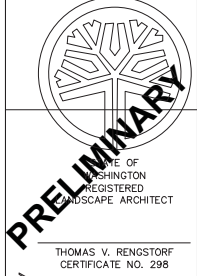


MATCH LINE STA 178+75 - SEE THIS SHEET

MATCH LINE STA 183+25 - SEE SHEET L3

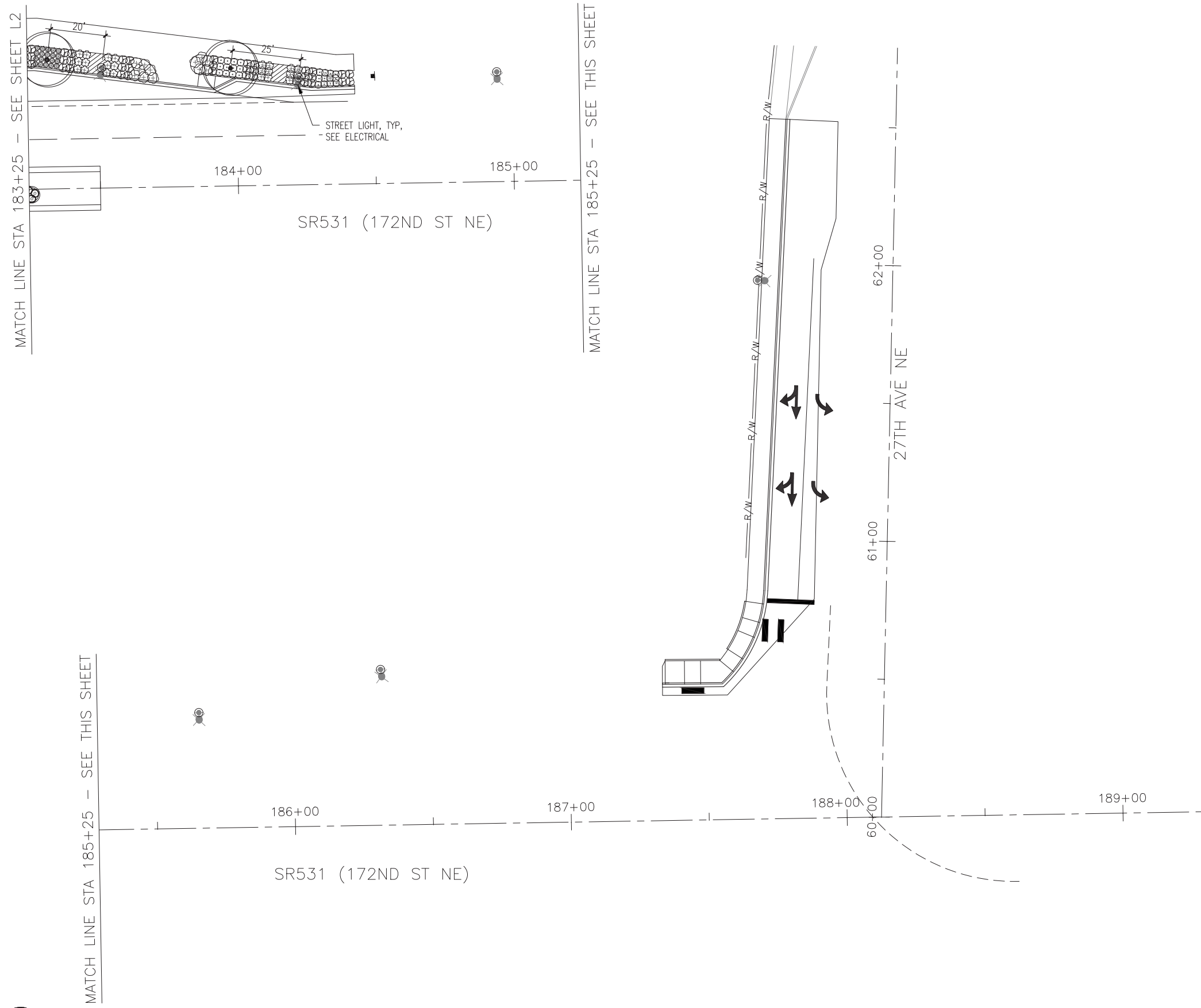
NO.	DATE	BY	Checked	REVISIONS

ENGINEER:
 DESIGNED BY: BS/MS/MH
 DRAWN BY: BS/MS/MH
 CHECKED BY: TR
 DATE: 5/15/2015



**LAKewood STATION/
 SR531 ROUNDABOUT**
 LANDSCAPE PLAN





MATCH LINE STA 183+25 - SEE SHEET L2

MATCH LINE STA 185+25 - SEE THIS SHEET

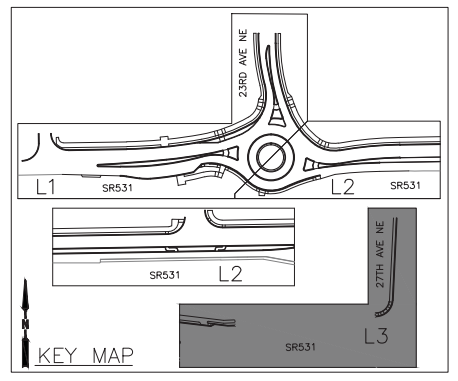
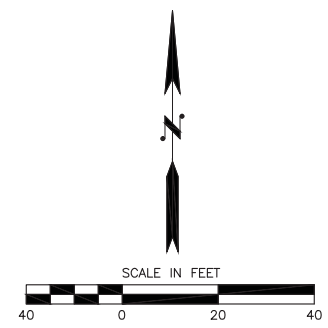
MATCH LINE STA 185+25 - SEE THIS SHEET

SR531 (172ND ST NE)

SR531 (172ND ST NE)

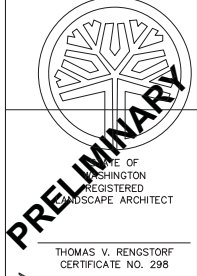
27TH AVE NE

STREET LIGHT, TYP.
- SEE ELECTRICAL



NO.	DATE	BY	Checked/Approval	REVISIONS

ENGINEER:
DESIGNED BY: BS/MS/MH
DRAWN BY: BS/MS/MH
CHECKED BY: TR
DATE: 5/15/2015



LAKEWOOD STATION/
SR531 ROUNDABOUT
LANDSCAPE PLAN

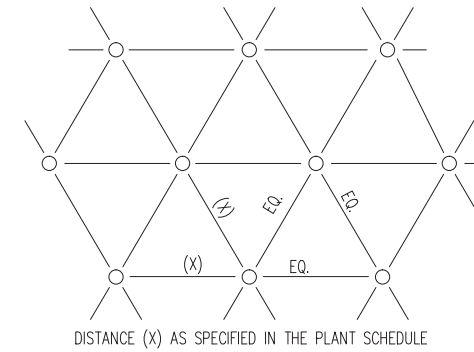


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L3
Sheet No.
54 OF 55

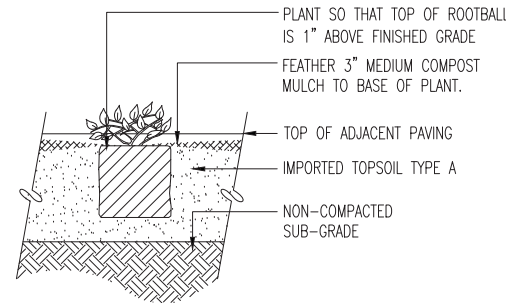
SW 1/4 SEC 20, NW 1/4 SEC 29, T 31 N, R 5 E, WM

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY	
	ACER FREEMANII 'JEFFERSRED' TM	AUTUMN BLAZE MAPLE	B & B	2.5" CAL		25	
	CORNUS FLORIDA 'EDDIES WHITE WONDER'	FLOWERING DOGWOOD	B & B	2.5" CAL		10	
	LIRIODENDRON TULIPIFERA	TULIP TREE	B & B	3.5" CAL	10'-12' HT	1	
	THUJA PLICATA 'HOGAN'	HOGAN CEDAR	B & B		6'-8' HT. NOT SHEARED	10	
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	MIN HT/SPREAD	O.C. SPCG	QTY	
	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	2 GAL	24" - 36"		48	
	GAULTHERIA SHALLON	SALAL	1 GAL	12" - 18"		120	
	PHILADELPHUS LEWISII 'BLIZZARD'	BLIZZARD MOCKORANGE	5 GAL	24" - 30"		34	
	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	2 GAL	12"-18" HT		241	
	RHUS GLABRA	SMOOTH SUMAC	5 GAL	42" - 48" HT		8	
	RIBES SANGUINEUM 'KING EDWARD VII'	RED FLOWERING CURRANT	5 GAL	36"		17	
	ROSA NUTKANA	NOOTKA ROSE	5 GAL	24" - 30"		82	
	SPIRAEA DOUGLASII	WESTERN SPIREA	5 GAL	24" MIN. HT.		81	
	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	2 GAL	18" - 24"		74	
	YUCCA FILAMENTOSA 'BRIGHT EDGE'	ADAM'S NEEDLE	2 GAL			74	
ANNUALS/PERENNIALS	BOTANICAL NAME	COMMON NAME	CONT	MIN HT/SPREAD	O.C. SPCG	QTY	
	ASTER SUBSPICATUS SYN. SYMPHYOTRICHUM SUBSPICATUM	DOUGLAS ASTER	1 GAL			10	
	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL			19	
GRASSES	BOTANICAL NAME	COMMON NAME	CONT	MIN HT/SPREAD	O.C. SPCG	QTY	
	DESCHAMPSIA CESPITOSA 'SCHOTTLAND'	SCHOTTLAND HAIR GRASS	5 GAL			97	
	HELIOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL			64	
	MUHLENBERGIA CAPILLARIS 'PINK CLOUD'	PINK MUHLY	2 GAL			53	
LOW SHRUBS (<18" HT)	BOTANICAL NAME	COMMON NAME	CONT	MIN HT/SPREAD	O.C. SPCG	QTY	
	ERICA X DARLEYENSIS 'DARLEY DALE'	DARLEY HEATH	2 GAL	12"		296	
	LAVANDULA ANGUSTIFOLIA 'HIDCOTE BLUE'	HIDCOTE BLUE LAVENDER	2 GAL	12"		427	
	LONICERA PILEATA	PRIVET HONEYSUCKLE	5 GAL	12"-18" HT		140	
	MAHONIA REPENS	CREeping OREGON GRAPE	2 GAL	12"		746	
	PROSTANTHERA CUNEATA	APLINE MINT BUSH	5 GAL	12"-18" HT		264	
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPCG	AP_RT	SPACING	QTY
	50% ARCTOSTAPHYLOS UVA-URSI 'EMERALD CARPET' 50% FRAGARIA CHILOENSIS	EMERALD CARPET MANZANITA & BEACH STRAWBERRY	1 GAL			24" o.c.	752
	50% ARMERIA MARITIMA 50% FESTUCA GLAUCA 'ELIJAH BLUE'	SEA THRIFT & BLUE FESCUE	1 GAL			18" o.c.	1,141
	50% IRIS TENAX 50% CAREX ALBULA	OREGON IRIS & FROSTY CURLS SEDGE	1 GAL			18" o.c.	685
	EROSION CONTROL SEED	GRASS SEED PER SPECIFICATIONS	-				1,775 SF
TALL GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPCG	AP_RT	SPACING	QTY
	CEANOTHUS GRISEUS 'LOUIS EDMUNDS'	CEANOTHUS LOUIS EDMUNDS	1 GAL			36" o.c.	338

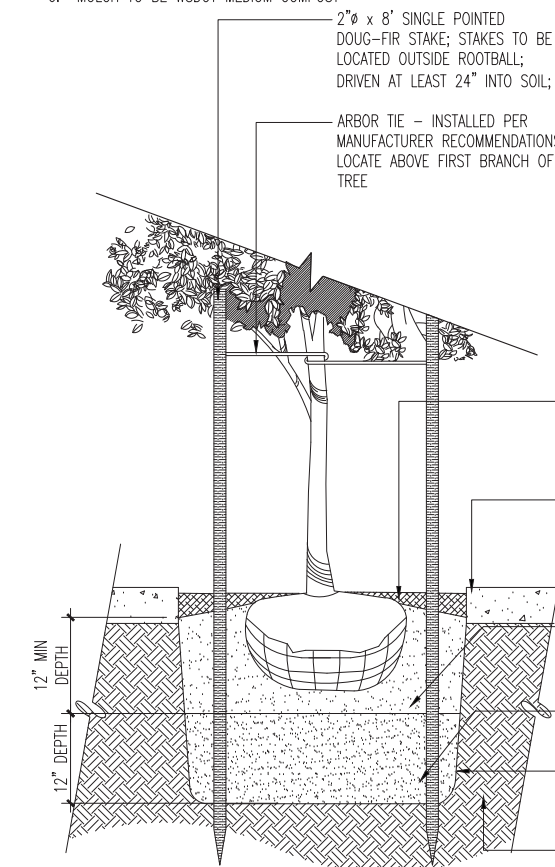


42 PLAN: PLANT SPACING
NTS

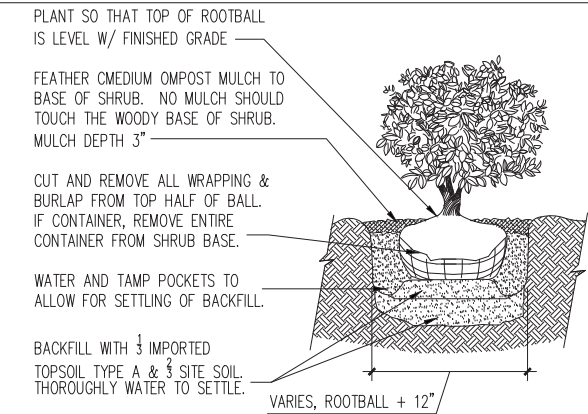


32 SECTION: GROUND COVER - PERENNIAL
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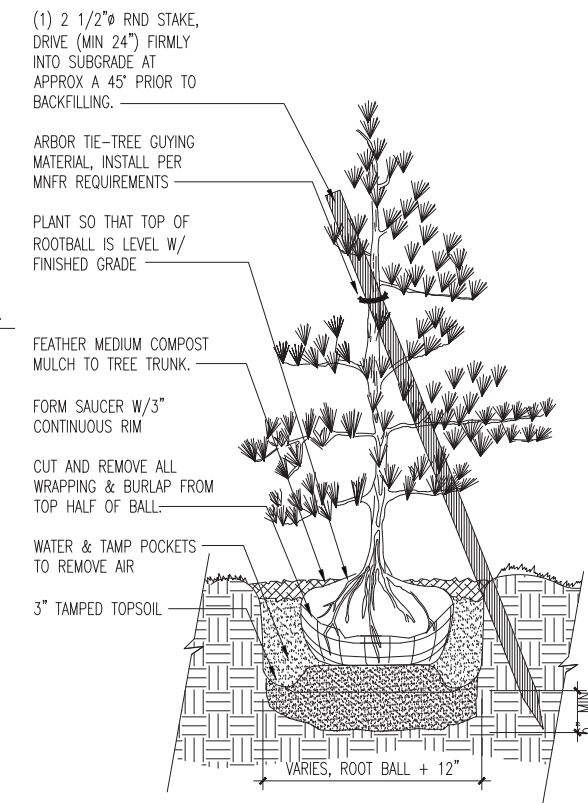
- NOTES:
- TREE PIT SHALL NOT BE LESS THAT (2) TIMES ROOT BALL DIA.
 - CUT ALL TIES & FOLD BACK BURLAP FROM UPPER 1/3 OF ROOT BALL.
 - WATER DAILY UNTIL ESTABLISHED, FERTILIZE & USE GROWTH HORMONE.
 - WHERE A CONTINUOUS PLANTING STRIP IS ALLOWED, WIDEN TREE PIT TO SIDEWALK.
 - IMPORTED TOPSOIL TO BE WSDOT TYPE A
 - MULCH TO BE WSDOT MEDIUM COMPOST



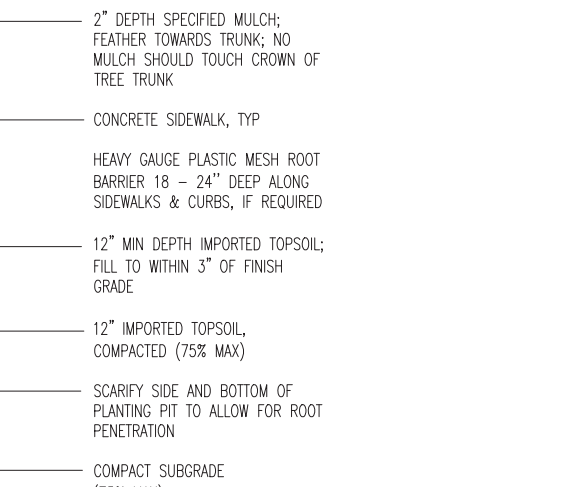
21 SECTION: CONIFER TREE
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41 SECT: SMALL B & B SHRUB
NOT TO SCALE



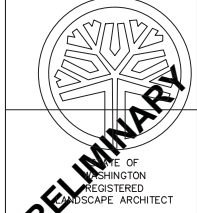
21 SECTION: CONIFER TREE
NOT TO SCALE



21 SECTION: CONIFER TREE
NOT TO SCALE

NO.	DATE	BY	REVISIONS

ENGINEER:
DESIGNED BY: BS/MS/MH
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CHECKED BY: TR
DATE: 5/15/2015



PRELIMINARY
LAKEWOOD STATION / SR531 ROUNDABOUT
LANDSCAPE SCHEDULE & DETAILS



25.2015.002
Project No. L4
Sheet No. 55 OF 55

