CITY OF DUVALL

3RD AVENUE NE RECONSTRUCTION

60% REVIEW SUBMITTAL

June, 2023

City of Duvall

Small Town. Real Life.

MAYOR

AMY OCKERLANDER

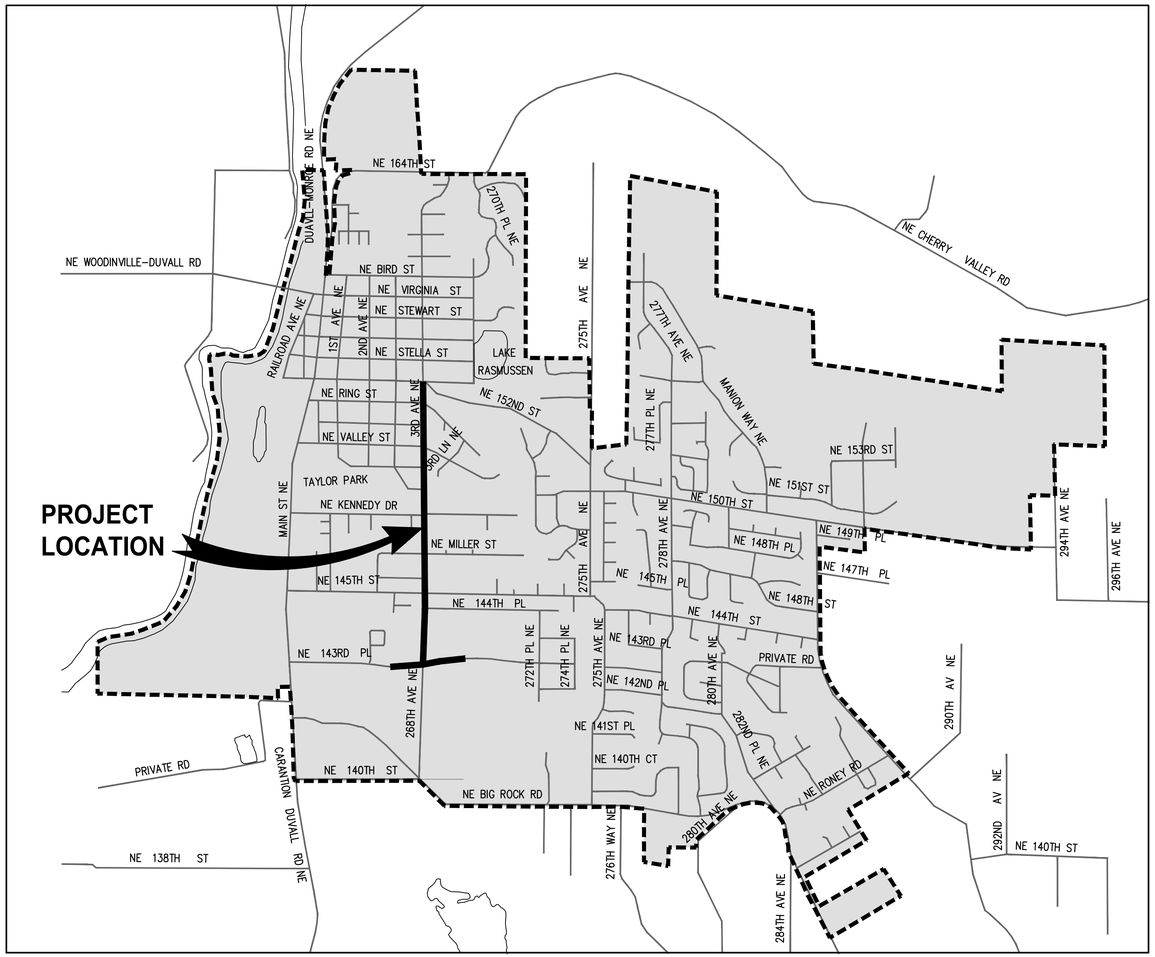
CITY COUNCIL

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RICK SHAFFER
AMY McHENRY
RONN MERCER
MIKE SUPPLE
JENNIFER KNAPLUND
COREY LOVETT

SCHEDULE OF DRAWINGS

SHEET NO.	TITLE
1	COVER
2	LEGEND AND ABBREVIATIONS
3–4	SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL
5–8	TYPICAL ROADWAY SECTIONS
9	ROADWAY DETAILS
10–17	SITE PREPARATION & TESC PLANS
18	SITE PREPARATION & TESC DETAILS
19–29	ROADWAY PLAN & PROFILES
30–40	STORMWATER PLAN & PROFILES
41–50	STORMWATER DETAILS
51	STRUCTURAL NOTES
52–53	CULVERT PLAN & PROFILE
54	CULVERT SECTION
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59	TEMPORARY STREAM BYPASS AND EXISTING CONDITIONS
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68	MINI ROUNDABOUT DETAILS
69–80	INTERSECTION & CURB RAMP PLANS
81–90	ILLUMINATION PLANS
91–93	ILLUMINATION DETAILS
94–99	URBAN DESIGN PLANS
*	URBAN DESIGN DETAILS
100–104	LANDSCAPE PLANS
105–106	LANDSCAPE DETAILS
107–111	IRRIGATION PLANS
112–113	IRRIGATION DETAILS
114–117	JOINT UTILITY TRENCH PLAN
*	JOINT UTILITY TRENCH DETAILS
118–123	CHANNELIZATION & SIGNING PLANS
124–129	RIGHT OF WAY PLANS

*NOT INCLUDED IN THIS SUBMITTAL



PROJECT LOCATION

CALL 2 DAYS BEFORE YOU DIG 811

APPROVED FOR CONSTRUCTION:

_____ _____

STEVEN LENISZEWSKI, P.E. **DATE**
PUBLIC WORKS DIRECTOR
CITY OF DUVALL

60% REVIEW SUBMITTAL

OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41330 — REGISTERED PROFESSIONAL ENGINEER

KPG PSOMAS

Seattle
3131 Elliott Avenue, Suite 400
Seattle, WA 98121 206.286.1640

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EXISTING LEGEND

- MIC — MONUMENT IN CASE
- MON — SURFACE MONUMENT
- RC — REBAR & CAP
- SPOT SHOT (DESCRIBED)
- CATCH BASIN
- STORM DRAIN MANHOLE
- YARD DRAIN
- DOWNSPOUT
- SD — STORM DRAIN CLEAN–OUT
- SEWER MANHOLE
- SS — SEWER CLEAN–OUT
- POWER POLE
- POWER POLE WITH UG CONNECT
- P — POWER VAULT LID
- POWER TRANSFORMER
- POWER METER
- POWER OUTLET
- GUY ANCHOR
- TRAFFIC SIGNAL WITH LUMINAIRE
- PEDESTRIAN SIGNAL
- JUNCTION BOX TYPE 1, 2, 3
- TR — TRAFFIC CONTROL CABINET
- TRAFFIC SERVICE CABINET
- TRAFFIC ATTENUATOR LOOP
- STREET LIGHT (LUMINAIRE)
- LOT LIGHT
- YARD LIGHT
- T — TELEPHONE MANHOLE
- TELEPHONE RISER
- TELEPHONE VAULT LID
- TELEPHONE POLE
- TV — TV VAULT LID
- FO — FIBER OPTIC MANHOLE
- GAS VALVE
- GAS METER
- WATER VALVE
- WATER METER
- WATER QUALITY BOX
- W — WATER MANHOLE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECT
- UTILITY VAULT LID (GENERIC/UNKNOWN)
- U — UTILITY ACCESS (GENERIC/UNKNOWN)
- BORE SITE (WITH FIELD DESCRIPTION)
- BOULDER
- SIGN
- (X) — MAILBOX
- SHRUB
- GRASS
- DT12(3) — DECIDUOUS TREE, DIAM. IN INCHES (# OF TRUNKS)
- CT12(3) — CONIFEROUS TREE, DIAM. IN INCHES (# OF TRUNKS)
- P — PAINTED POWER
- T — PAINTED TELEPHONE
- FO — PAINTED FIBER OPTIC
- TV — PAINTED TV
- W — PAINTED WATER
- G — PAINTED GAS
- SD — STORM
- S — SEWER
- x x x — FENCE
- HEDGE (HEIGHT NOTED)
- BUILDING
- PAINTED STRIPE
- RAISED–BUTTON SOLID STRIPE
- RAISED–BUTTON SKIP STRIPE
- EDGE OF PAVEMENT
- FLOWLINE
- CONTOUR
- EXISTING RIGHT–OF–WAY LINE
- PROPERTY LINE
- CONCRETE
- GRAVEL
- BRICK
- METAL GRATE

ABBREVIATIONS

AC	ASPHALT CONCRETE	MH	MANHOLE
ACP	ASPHALT CONCRETE PAVEMENT	MIC	MONUMENT IN CASE
ADA	AMERICANS WITH DISABILITIES ACT	MJ	MECHANICAL JOINT
AP	ANGLE POINT	MON	MONUMENT
APPROX	APPROXIMATE	MWS	MODULAR WETLAND SYSTEM
BLDG	BUILDING	N	NORTH OR NORTHING
CB	CATCH BASIN	NAVD	NORTH AMERICAN VERTICAL DATUM
CCP	CEMENT CONCRETE PAVEMENT	NO	NUMBER
CDF	CONTROLLED DENSITY FILL	NTS	NOT TO SCALE
CHLK	CHAINLINK	OC	ON CENTER
℄	CENTERLINE	OD	OUTSIDE DIAMETER
CL	CLASS	PC	POINT OF CURVE
CO	CLEANOUT	PCC	POINT OF COMPOUND CURVATURE
COD	CITY OF DUVALL	PCCP	PERVIOUS CEMENT CONCRETE PAVEMENT
COL	COLUMN CONC CONCRETE	PI	POINT OF INTERSECTION
CSBC	CRUSHED SURFACING BASE COURSE	POB	POINT OF BEGINNING
CSTC	CRUSHED SURFACING TOP COURSE	POE	POINT OF ENDING
DI	DUCTILE IRON	PRC	POINT OF REVERSE CURVATURE
DIA	DIAMETER	PT	POINT OF TANGENT
DW	DRIVEWAY	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
E	EAST OR EASTING		
EA	EACH	PVT	POINT OF VERTICAL TANGENT
ELEV	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EOP	EDGE OF PAVEMENT	R	RADIUS
EW	EACH WAY	ROW	RIGHT OF WAY
EXIST	EXISTING	RT	RIGHT
FF	FINISHED FLOOR	S	SLOPE OR SOUTH
FL	FLOW LINE	SD	STORM DRAIN
FO	FIBER OPTIC	SDMH	STORM DRAIN MANHOLE
FOC	FACE OF CURB	SE	SOUTHEAST
HMA	HOT MIX ASPHALT	SHT	SHEET
HORIZ	HORIZONTAL	SQ	SQUARE
HP	HIGH POINT	SS	SANITARY SEWER
ID	INSIDE DIAMETER	SSMH	SANITARY SEWER MANHOLE
IE	INVERT ELEVATION	ST	STREET
IN	INCH/INCHES	STA	STATION
JB	JUNCTION BOX	STD	STANDARD
L	LENGTH LT LEFT	STCR	STRUCTURE
LF	LINEAR FEET	SW	SOUTHWEST
LP	LOW POINT	TYP	TYPICAL
MAX	MAXIMUM	VERT	VERTICAL
MIN	MINIMUM	W	WEST
		YD	YARD DRAIN

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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FILENAME	
JRW	06/2023
DESIGNED BY	DATE
KAB	06/2023
DRAWN BY	DATE
OBP	06/2023
CHECKED BY	DATE

OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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3RD AVENUE NE RECONSTRUCTION

LEGEND AND ABBREVIATIONS

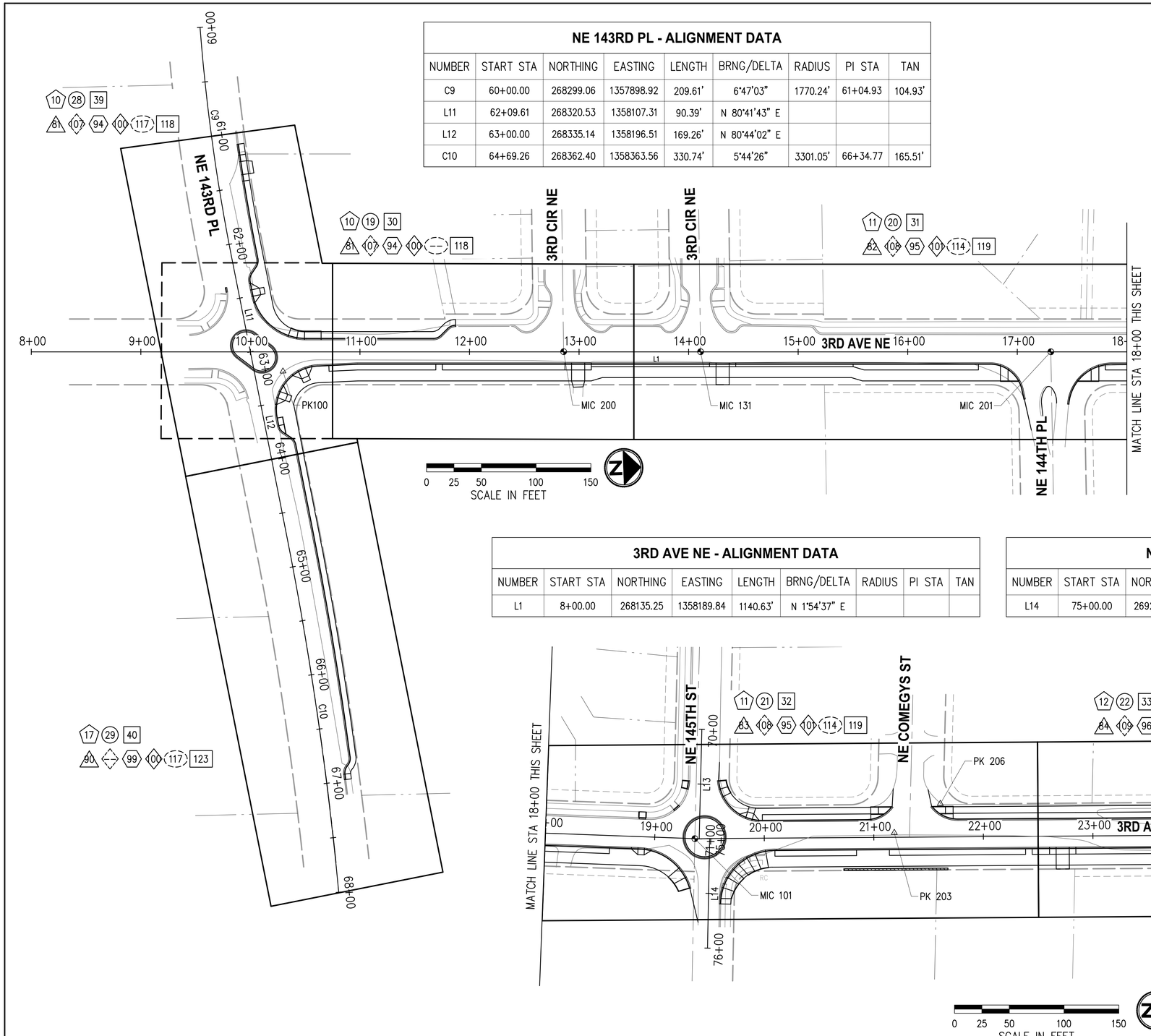
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SHT 2 OF 129

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NE 143RD PL - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
C9	60+00.00	268299.06	1357898.92	209.61'	6°47'03"	1770.24'	61+04.93	104.93'
L11	62+09.61	268320.53	1358107.31	90.39'	N 80°41'43" E			
L12	63+00.00	268335.14	1358196.51	169.26'	N 80°44'02" E			
C10	64+69.26	268362.40	1358363.56	330.74'	5°44'26"	3301.05'	66+34.77	165.51'



SHEET INDEX

##	SITE PREPARATION & TESC PLANS
##	ROADWAY PLAN & PROFILES
##	STORMWATER PLAN & PROFILES
##	ILLUMINATION PLANS
##	IRRIGATION PLANS
##	URBAN DESIGN PLANS
##	LANDSCAPE PLANS
##	JOINT UTILITY TRENCH PLANS
##	CHANNELIZATION & SIGNING PLANS

NOTES

1. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
3. FIELD SURVEY: KPG, OCTOBER/NOVEMBER, 2021. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
4. CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
5. STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
6. THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.

HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11

VERTICAL DATUM NAVD 88

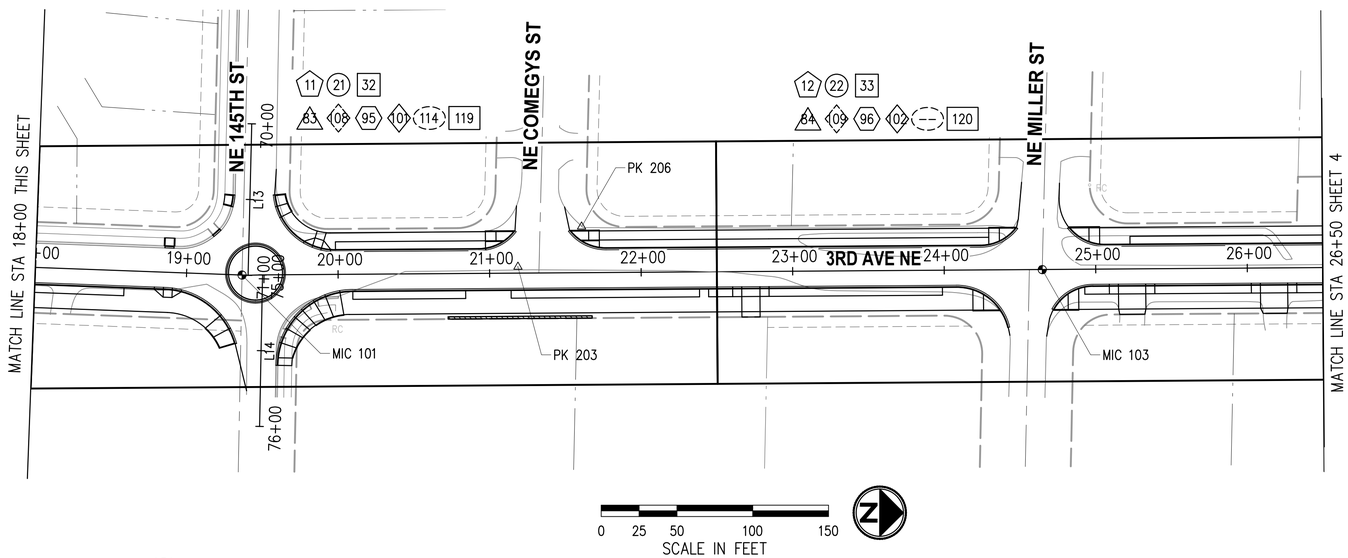
HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY [RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK) WITH CHECKS TO WSDOT CONTROL POINT "FUNK", ID1244)

3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L1	8+00.00	268135.25	1358189.84	1140.63'	N 1°54'37" E			

NE 145TH ST - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L14	75+00.00	269284.75	1358227.59	100.00'	S 89°06'21" E			



CONTROL POINT LIST

PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
100	PK	268364.29	1358215.23	260.30'
101	MIC	269271.25	1358227.73	268.83'
103	MIC	269799.30	1358222.22	252.38'
131	MIC	268745.81	1358210.06	268.82'
200	MIC	268620.88	1358205.89	267.84'
201	MIC	269065.34	1358220.80	271.08'
203	PK	269453.27	1358221.61	266.82'
206	PK	269495.18	1358194.95	263.93'

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
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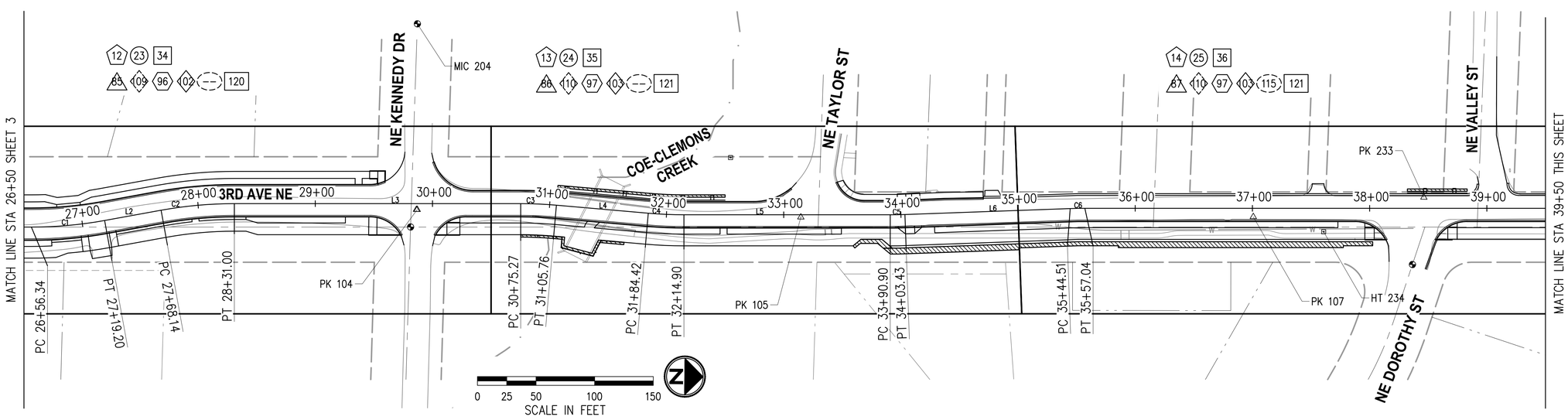
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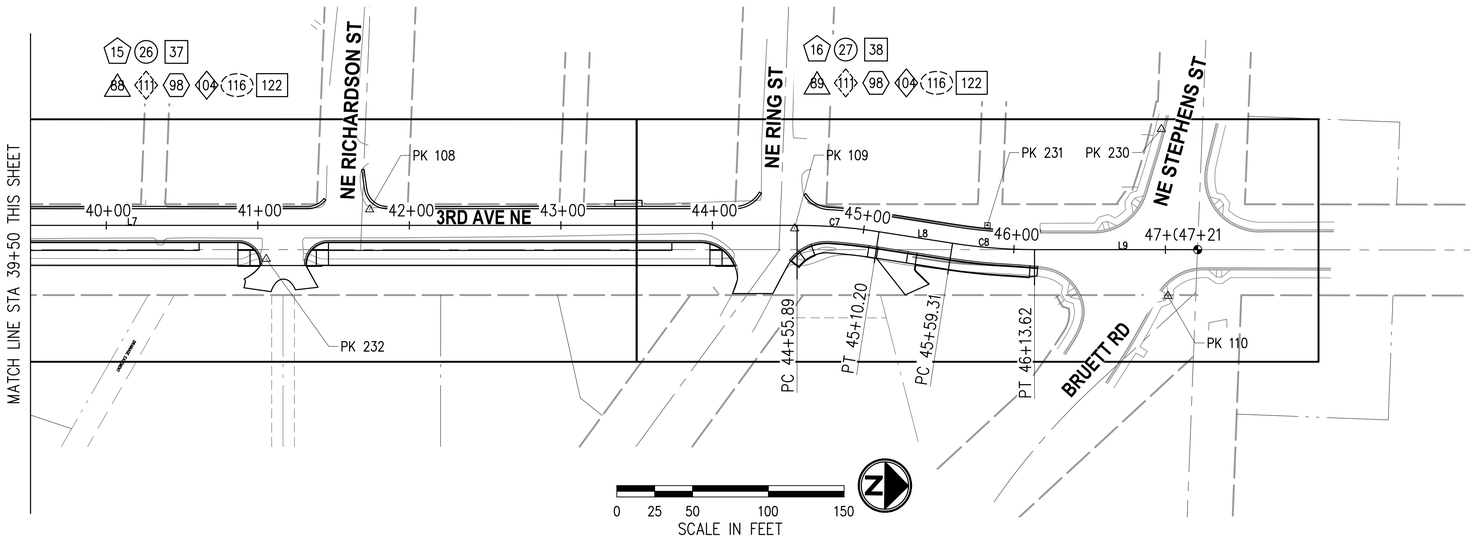
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL

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SHEET INDEX

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CONTROL POINT LIST

PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
104	PK	270319.94	1358201.65	235.14'
105	PK	270647.23	1358204.64	227.55'
107	PK	271033.19	1358200.22	229.69'
108	PK	271506.07	1358177.44	228.13'
109	PK	271786.63	1358187.01	233.74'
110	PK	272033.46	1358228.94	239.71'
204	MIC	270318.37	1358043.19	238.08'
230	PK	272027.98	1358118.92	226.85'
231	PK	271913.91	1358183.55	235.06'
232	PK	271438.20	1358210.83	230.19'
233	PK	271178.54	1358182.11	226.51'
234	HT	271093.36	1358212.33	229.98'

NOTES

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3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
C1	26+56.34	269990.92	1358220.07	62.86'	10°17'24"	350.00'	26+87.86	31.51'
L2	27+19.20	270053.38	1358213.78	48.94'	N 10°53'58" W			
C2	27+68.14	270101.43	1358204.52	62.86'	10°17'24"	350.00'	27+99.65	31.51'
L3	28+31.00	270163.89	1358198.23	244.28'	N 0°36'35" W			
C3	30+75.27	270408.15	1358195.63	30.49'	4°59'26"	350.00'	30+90.53	15.25'
L4	31+05.76	270438.61	1358196.63	78.66'	N 4°22'51" E			
C4	31+84.42	270517.04	1358202.64	30.49'	4°59'26"	350.00'	31+99.67	15.25'
L5	32+14.90	270547.50	1358203.64	175.99'	N 0°36'35" W			

3RD AVE NE - ALIGNMENT DATA

NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
C5	33+90.90	270723.48	1358201.77	12.53'	2°03'07"	350.00'	33+97.17	6.27'
L6	34+03.43	270736.01	1358201.41	141.07'	N 2°39'42" W			
C6	35+44.51	270876.93	1358194.86	12.54'	2°03'08"	350.00'	35+50.77	6.27'
L7	35+57.04	270889.46	1358194.51	898.85'	N 0°36'34" W			
C7	44+55.89	271788.26	1358184.94	54.31'	8°53'24"	350.00'	44+83.10	27.21'
L8	45+10.20	271842.39	1358188.57	49.11'	N 8°16'50" E			
C8	45+59.31	271890.99	1358195.65	54.31'	8°53'25"	350.00'	45+86.52	27.21'
L9	46+13.62	271945.12	1358199.28	107.59'	N 0°36'35" W			

HORIZONTAL AND VERTICAL DATUM

HORIZONTAL DATUM: NAD 83/11

VERTICAL DATUM NAVD 88

HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY [RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK) WITH CHECKS TO WSDOT CONTROL POINT "FUNK", ID1244)

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078INDX.dwg FILENAME

JRW 06/2023 DESIGNED BY DATE

KAB 06/2023 DRAWN BY DATE

OBP 06/2023 CHECKED BY DATE

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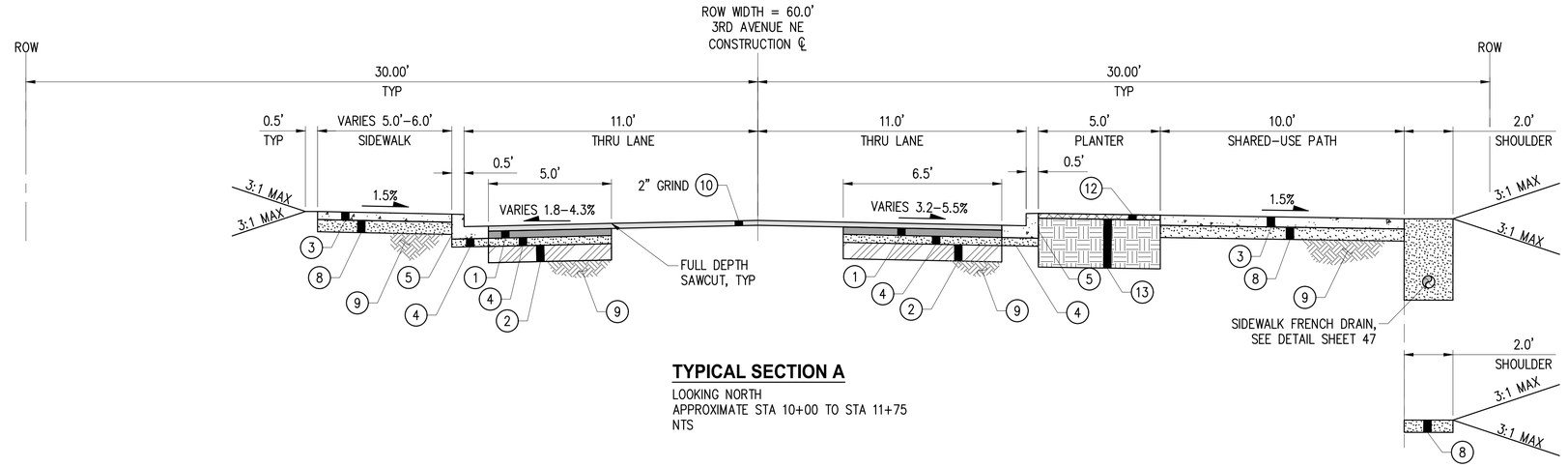
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3RD AVENUE NE RECONSTRUCTION

SHEET INDEX, ALIGNMENT PLAN, & SURVEY CONTROL

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SHT 4 OF 129

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TYPICAL SECTION A

LOOKING NORTH
APPROXIMATE STA 10+00 TO STA 11+75
NTS

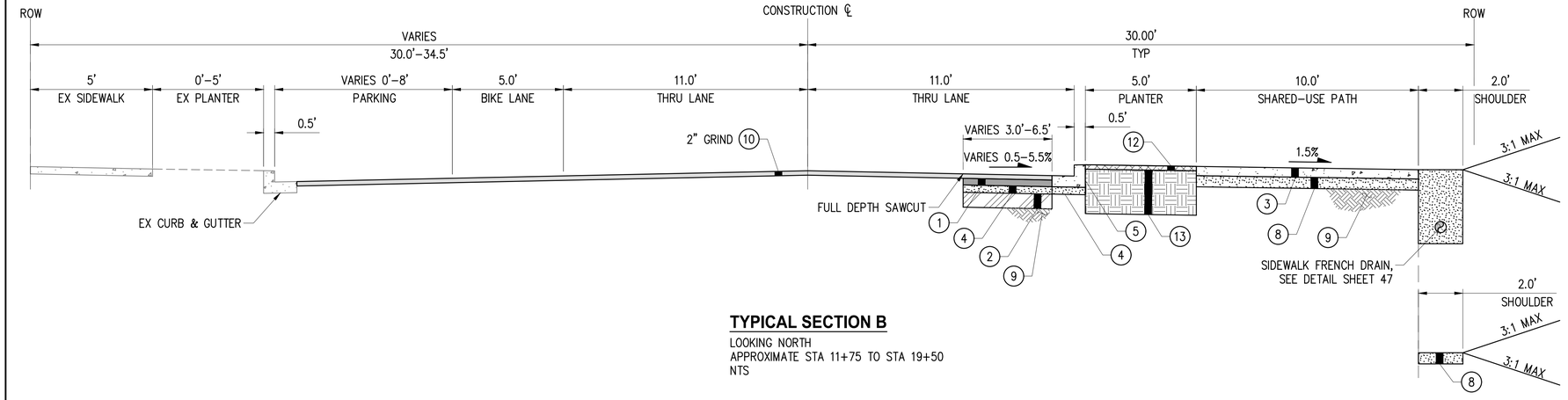
ALTERNATIVE SECTION A1

NTS

SECTION GENERAL NOTES

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2–06 OF THE STANDARD SPECIFICATIONS.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2–03 OF THE STANDARD SPECIFICATIONS.

MATERIAL CODE	
(##)	MATERIALS DESCRIPTION
1	4" HMA CL ½" PG 58H–22
2	8" CRUSHED SURFACING BASE COURSE
3	5" CEMENT CONC. SIDEWALK (OR 5" CEMENT CONC. DRIVEWAY ENTRANCE, 4000 PSI)
4	4" CRUSHED SURFACING TOP COURSE
5	18" WIDE VERTICAL CEMENT CONC. CURB & GUTTER PER DUVALL DWG NO. 3–03–002A (4000 PSI)
6	ASPHALT WEDGE CURB, PER DETAIL SHEET 6
7	5" PERVIOUS CONC. SIDEWALK
8	6" CRUSHED SURFACING TOP COURSE
9	FIRM AND UNYIELDING/APPROVED SUBGRADE
10	2" HMA CL ½" PG 58H–22 (OVERLAY)
11	5" DECORATIVE STAMPED CONCRETE
12	2" BARK OR WOOD CHIP MULCH
13	24" TOPSOIL TYPE A
14	8" EXPOSED PEDESTRIAN CURB
15	6" HMA CL ½" PG 58H–22



TYPICAL SECTION B

LOOKING NORTH
APPROXIMATE STA 11+75 TO STA 19+50
NTS

ALTERNATIVE SECTION B1

NTS

NO.	DATE	BY	APPR.	REVISIONS

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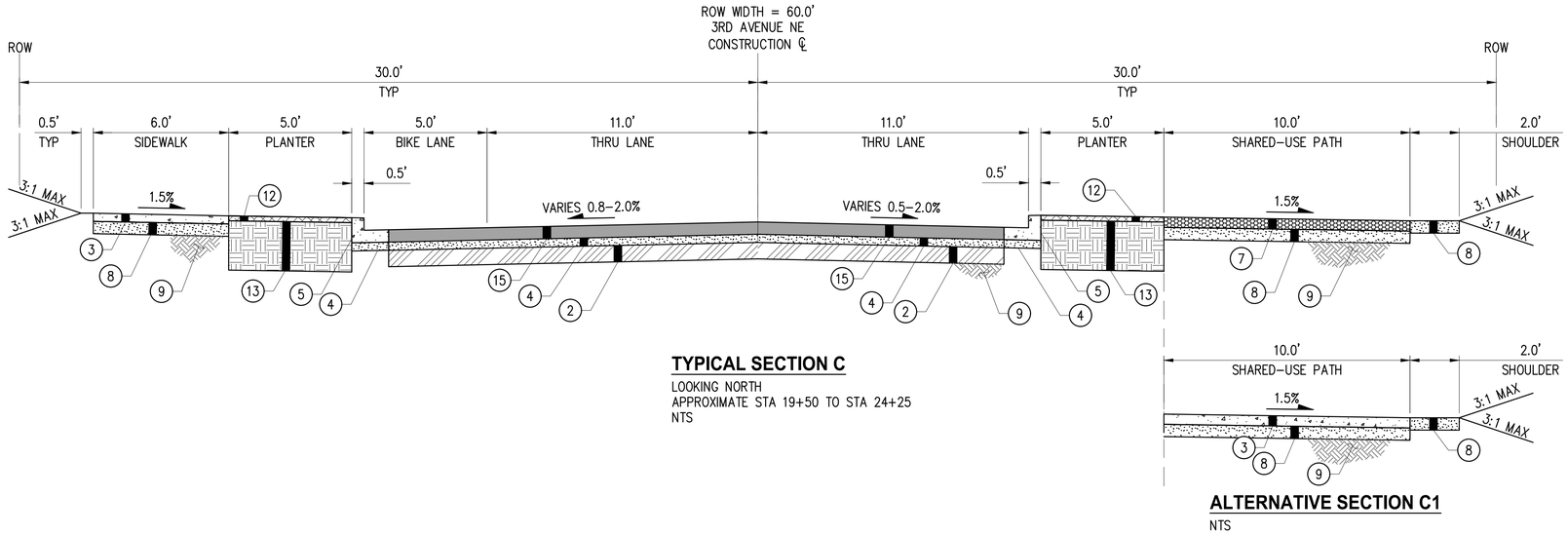
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

KPG PROJECT No. 21078 | SHT 5 OF 129

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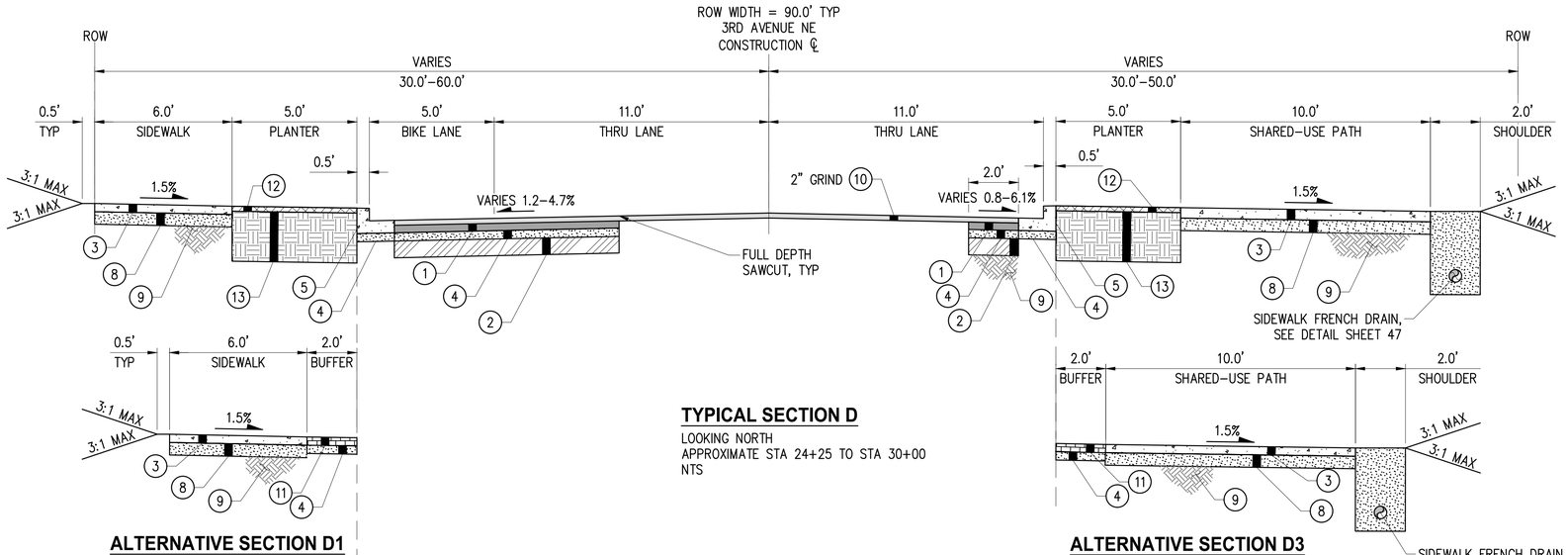


TYPICAL SECTION C

LOOKING NORTH
APPROXIMATE STA 19+50 TO STA 24+25
NTS

ALTERNATIVE SECTION C1

NTS



TYPICAL SECTION D

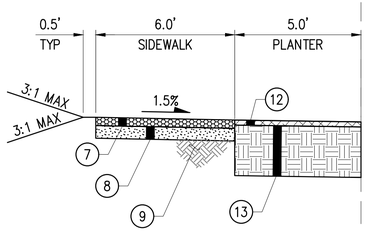
LOOKING NORTH
APPROXIMATE STA 24+25 TO STA 30+00
NTS

ALTERNATIVE SECTION D1

NTS

ALTERNATIVE SECTION D3

NTS



ALTERNATIVE SECTION D2

NTS

SECTION GENERAL NOTES

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2-06 OF THE STANDARD SPECIFICATIONS.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.

MATERIAL CODE	
(##)	MATERIALS DESCRIPTION
1	4" HMA CL ½" PG 58H-22
2	8" CRUSHED SURFACING BASE COURSE
3	5" CEMENT CONC. SIDEWALK (OR 5" CEMENT CONC. DRIVEWAY ENTRANCE, 4000 PSI)
4	4" CRUSHED SURFACING TOP COURSE
5	18" WIDE VERTICAL CEMENT CONC. CURB & GUTTER PER DUVALL DWG NO. 3-03-002A (4000 PSI)
6	ASPHALT WEDGE CURB, PER DETAIL SHEET 6
7	5" PERVIOUS CONC. SIDEWALK
8	6" CRUSHED SURFACING TOP COURSE
9	FIRM AND UNYIELDING/APPROVED SUBGRADE
10	2" HMA CL ½" PG 58H-22 (OVERLAY)
11	5" DECORATIVE STAMPED CONCRETE
12	2" BARK OR WOOD CHIP MULCH
13	24" TOPSOIL TYPE A
14	8" EXPOSED PEDESTRIAN CURB
15	6" HMA CL ½" PG 58H-22

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078SEC01.dwg	
FILENAME	
JRW	06/2023
DESIGNED BY	DATE
KAB	06/2023
DRAWN BY	DATE
OBP	06/2023
CHECKED BY	DATE

OLIVIA B. PARASCHIV
STATE OF WASHINGTON
41380
REGISTERED
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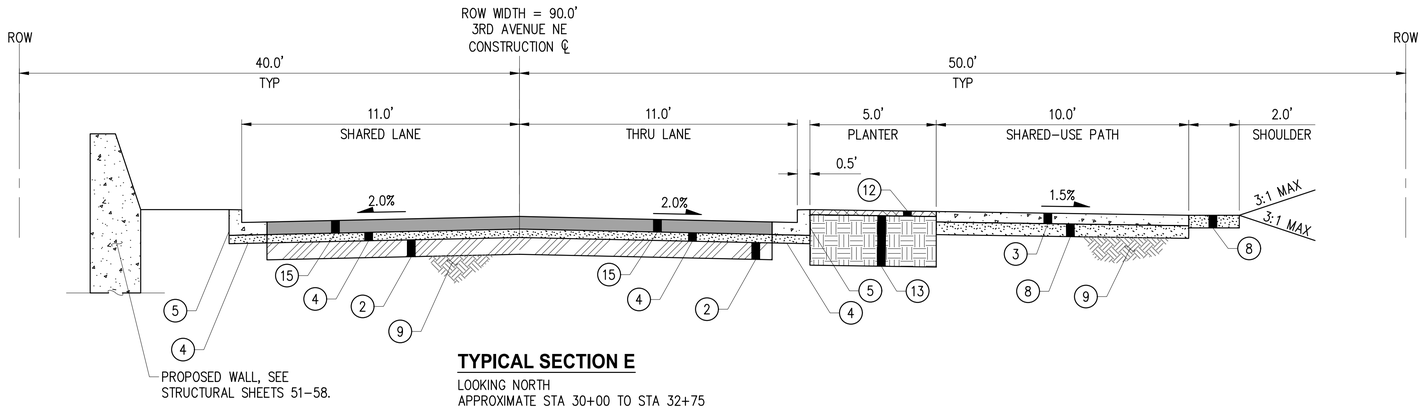
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

KPG PROJECT No. 21078

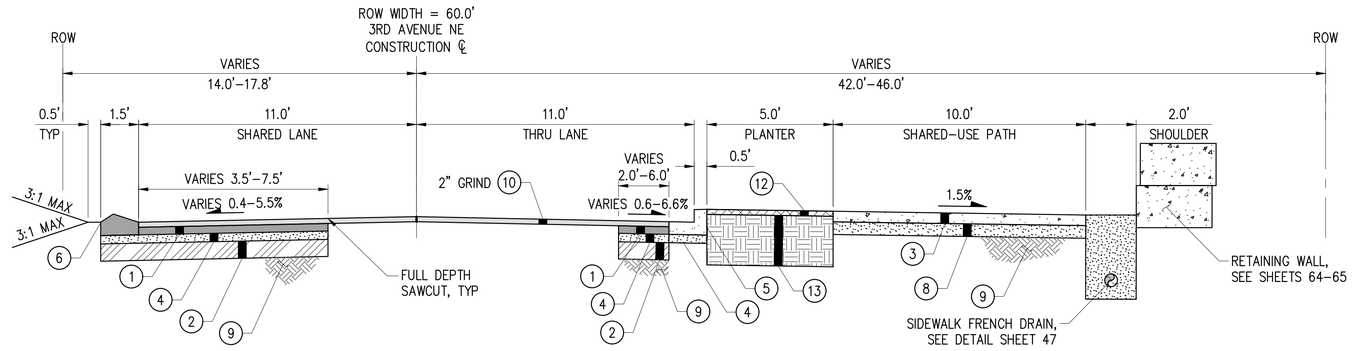
SHT 6 OF 129

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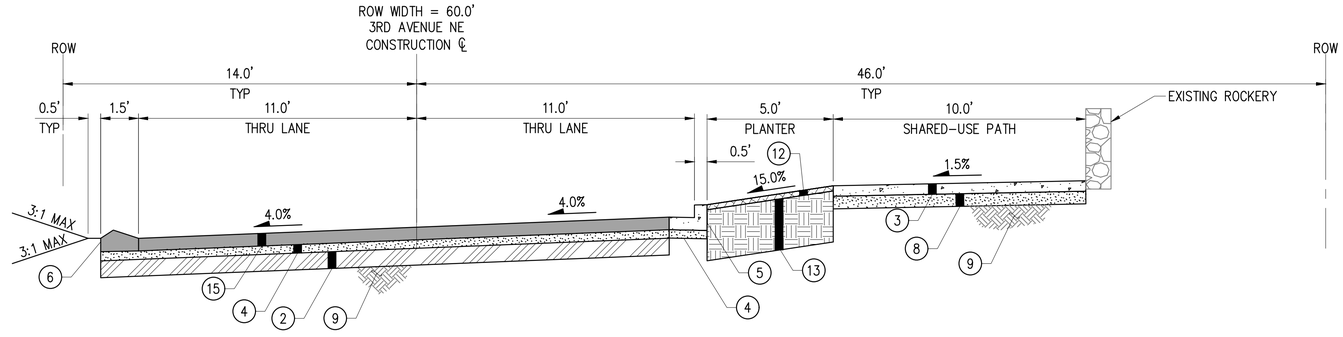
TYPICAL SECTION E

LOOKING NORTH
APPROXIMATE STA 30+00 TO STA 32+75
NTS



TYPICAL SECTION F

LOOKING NORTH
APPROXIMATE STA 34+50 TO STA 38+50
NTS



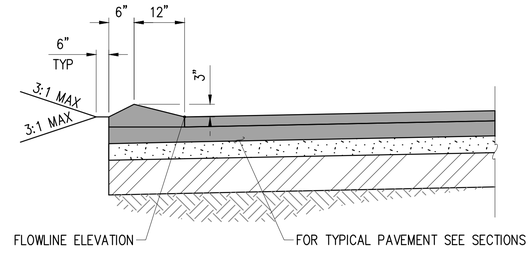
TYPICAL SECTION G

LOOKING NORTH
APPROXIMATE STA 38+50 TO STA 44+00
NTS

SECTION GENERAL NOTES

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2-06 OF THE STANDARD SPECIFICATIONS.
2. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.

MATERIAL CODE	
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13	24" TOPSOIL TYPE A
14	8" EXPOSED PEDESTRIAN CURB
15	6" HMA CL ½" PG 58H-22



HMA WEDGE CURB DETAIL

NTS

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PROJECT MANAGER	DATE	
PROJECT ENGINEER	DATE	

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OBP	06/2023
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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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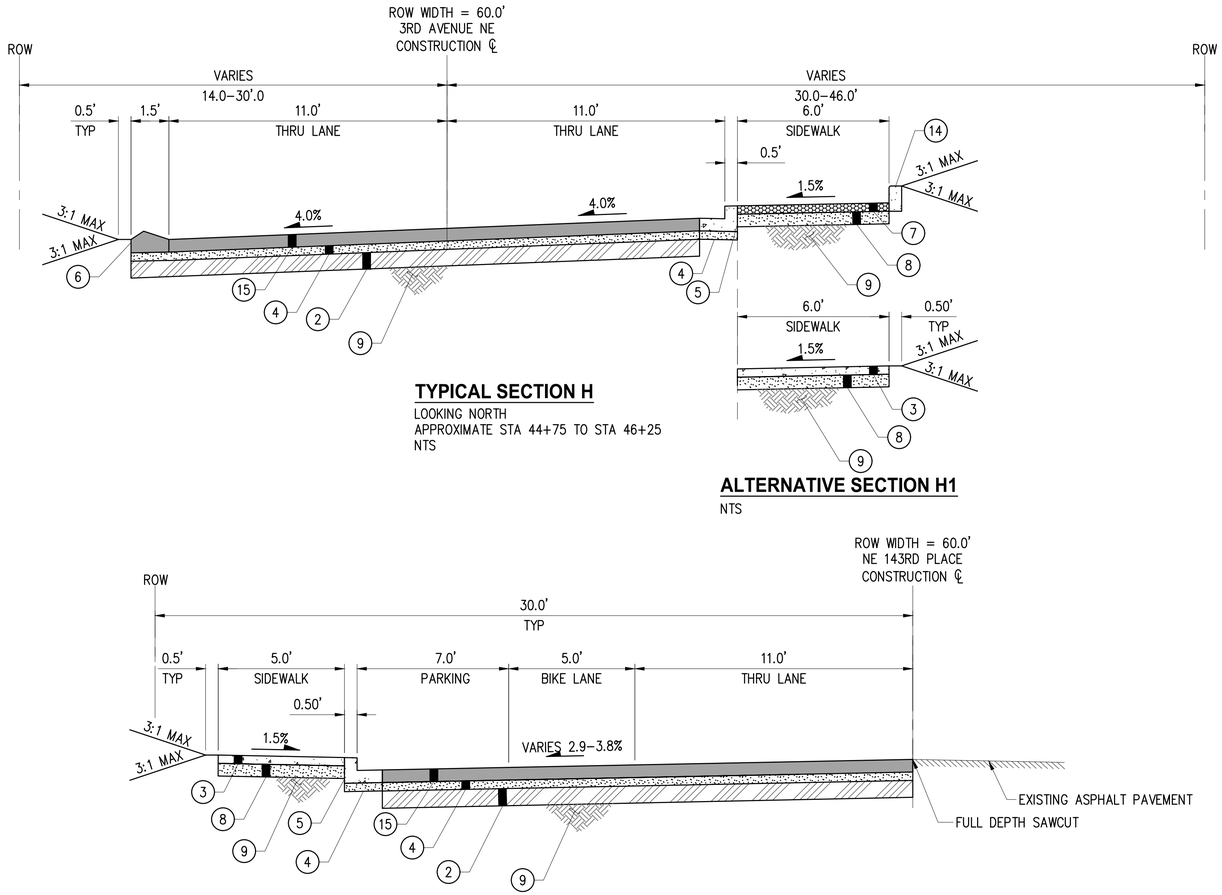
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE

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TYPICAL SECTION H

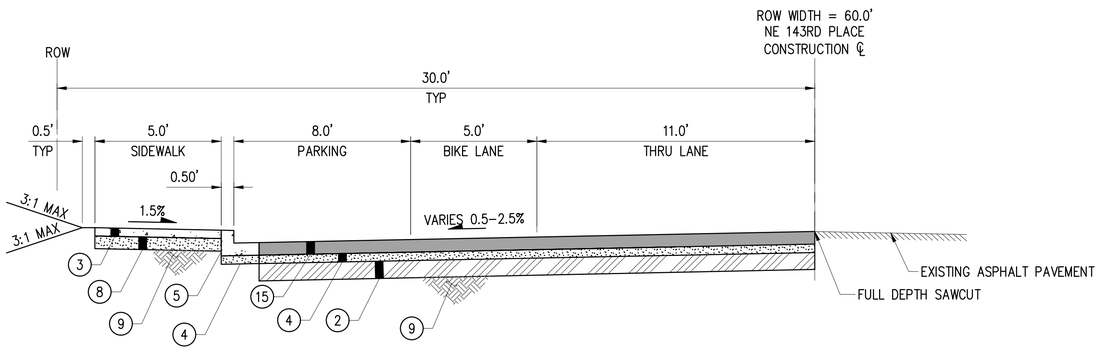
LOOKING NORTH
APPROXIMATE STA 44+75 TO STA 46+25
NTS

ALTERNATIVE SECTION H1

NTS

TYPICAL SECTION I

LOOKING EAST
APPROXIMATE STA 61+00 TO STA 67+00
NTS



TYPICAL SECTION J

LOOKING EAST
APPROXIMATE STA 63+00 TO STA 67+00
NTS

SECTION GENERAL NOTES

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MATERIAL CODE	
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OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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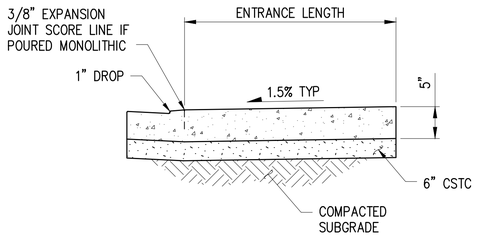
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

TYPICAL ROADWAY SECTIONS
3RD AVE NE & NE 143RD PL

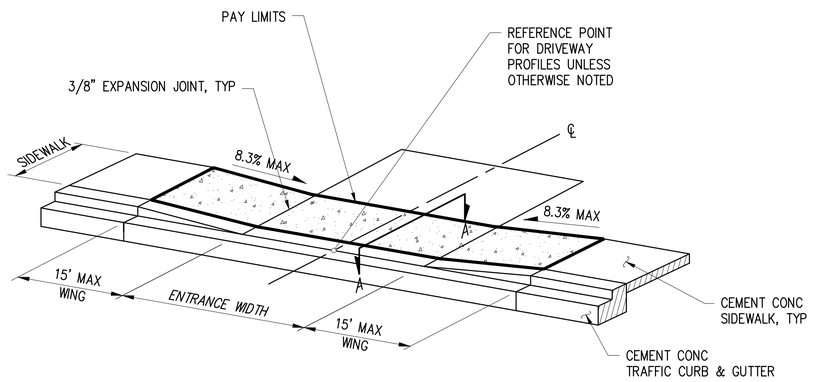
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DRIVEWAY SCHEDULE			
DRIVEWAY NO.	CL STATION	ENTRANCE WIDTH (LF)	DESCRIPTION
D1	12+99.17	12.0	TYPE 2
D2	14+31.04	12.0	TYPE 2
D3	22+72.32	12.0	TYPE 2
D4	25+23.92	18.0	TYPE 2
D5	26+17.62	18.0	TYPE 2
D6	27+12.29	18.0	TYPE 1
D7	45+21.14	20.0	TYPE 1
D8	61+32.85	12.0	TYPE 1



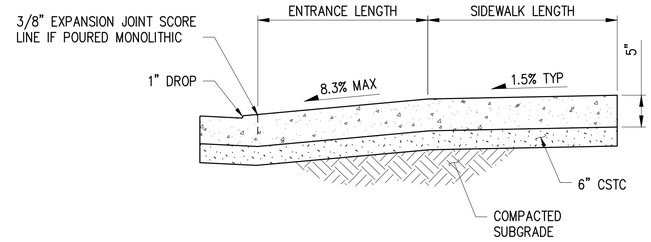
SECTION A–A



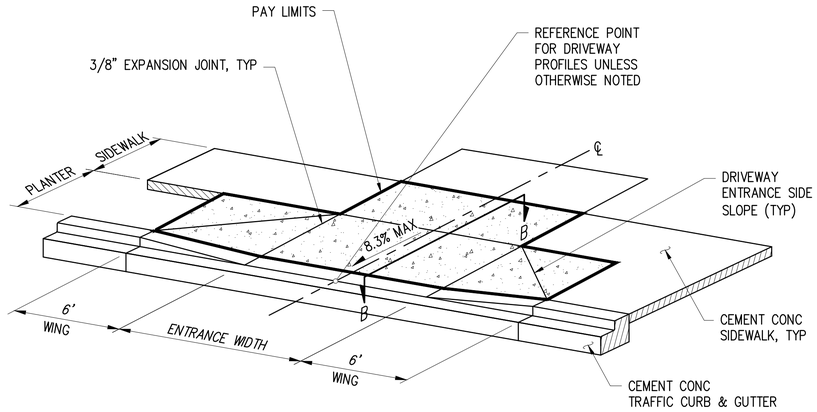
ISOMETRIC VIEW

DRIVEWAY ENTRANCE TYPE 1 DETAIL

NTS



SECTION B–B



ISOMETRIC VIEW

DRIVEWAY ENTRANCE TYPE 2 DETAIL

NTS

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PROJECT ENGINEER DATE

21078DET.dwg FILENAME

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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY DETAILS

KPG PROJECT №1078

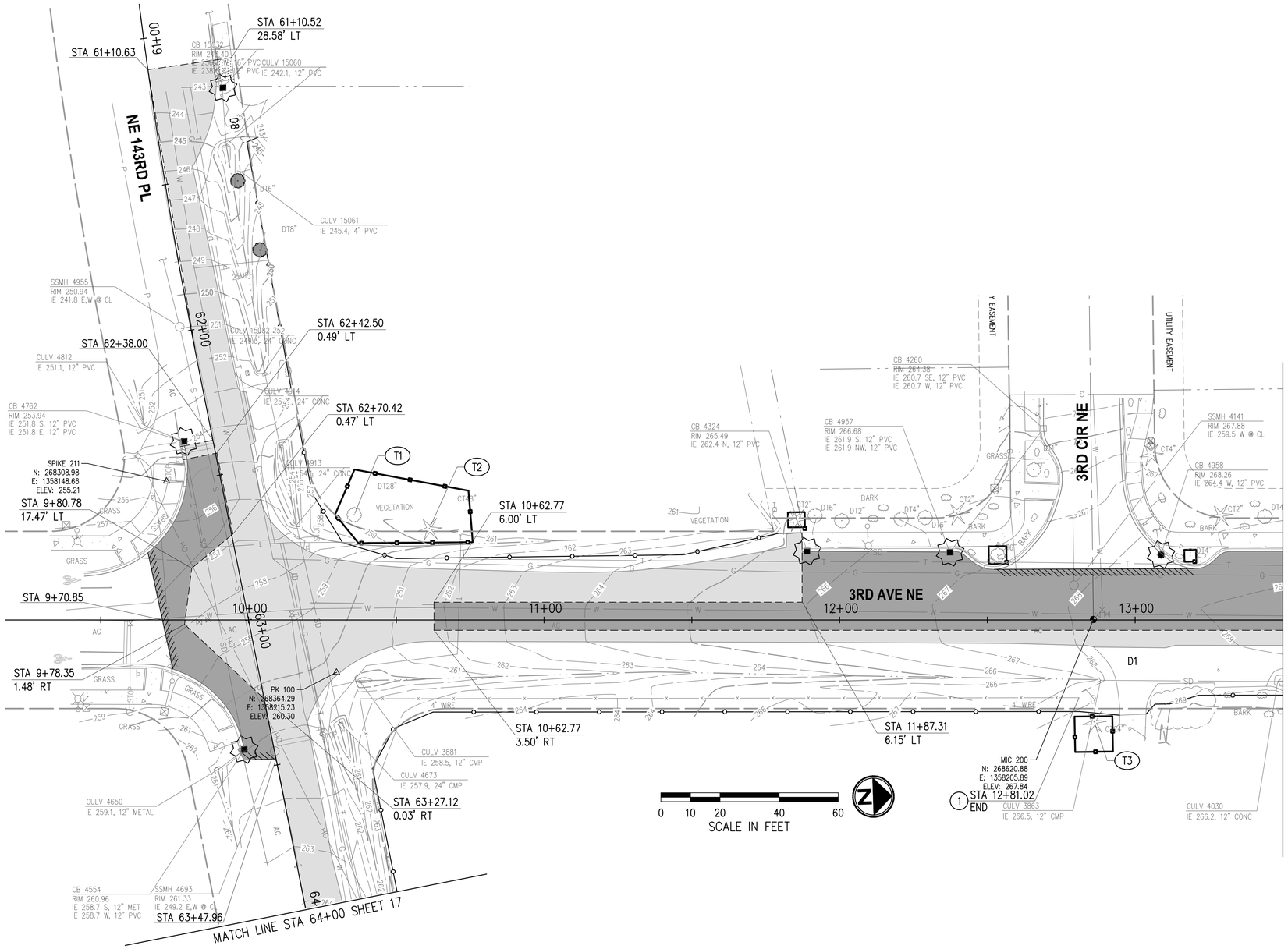
SHT 9 OF 129

GENERAL SITE PREPARATION & TESC NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, TREES, AND VEGETATION NOT MARKED FOR REMOCAL, RELOCATION, OR ADJUSTMENT.
2. INLET PROTECTION SHALL BE PLACES IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 30–40.
4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(1) REMOVE FENCE.



LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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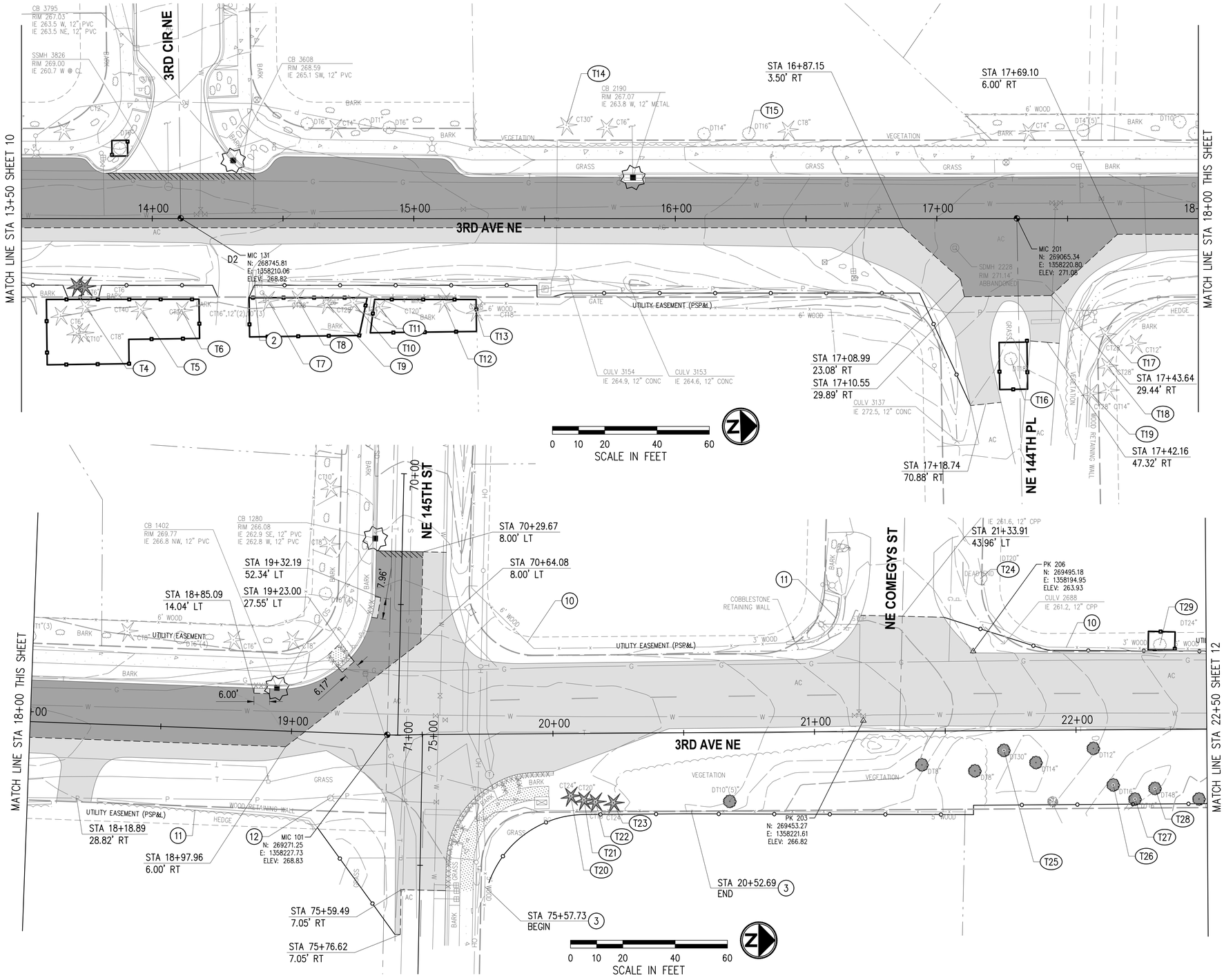
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 9+25 TO STA 15+00 AND
STA 61+00 TO STA 64+00

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GENERAL SITE PREPARATION & TESC NOTES

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2. INLET PROTECTION SHALL BE PLACES IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 30–40.
4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(2) REMOVE RAILROAD TIE AND SALVAGE TO OWNER.

(3) REMOVE AND RELOCATE EXISTING FENCE AS SHOWN ON ROADWAY PLANS.

(10) PROTECT AND PRESERVE FENCE.

(11) PROTECT AND PRESERVE RETAINING WALL.

(12) REMOVE FIRE HYDRANT ASSEMBLY AND SALVAGE TO CITY.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

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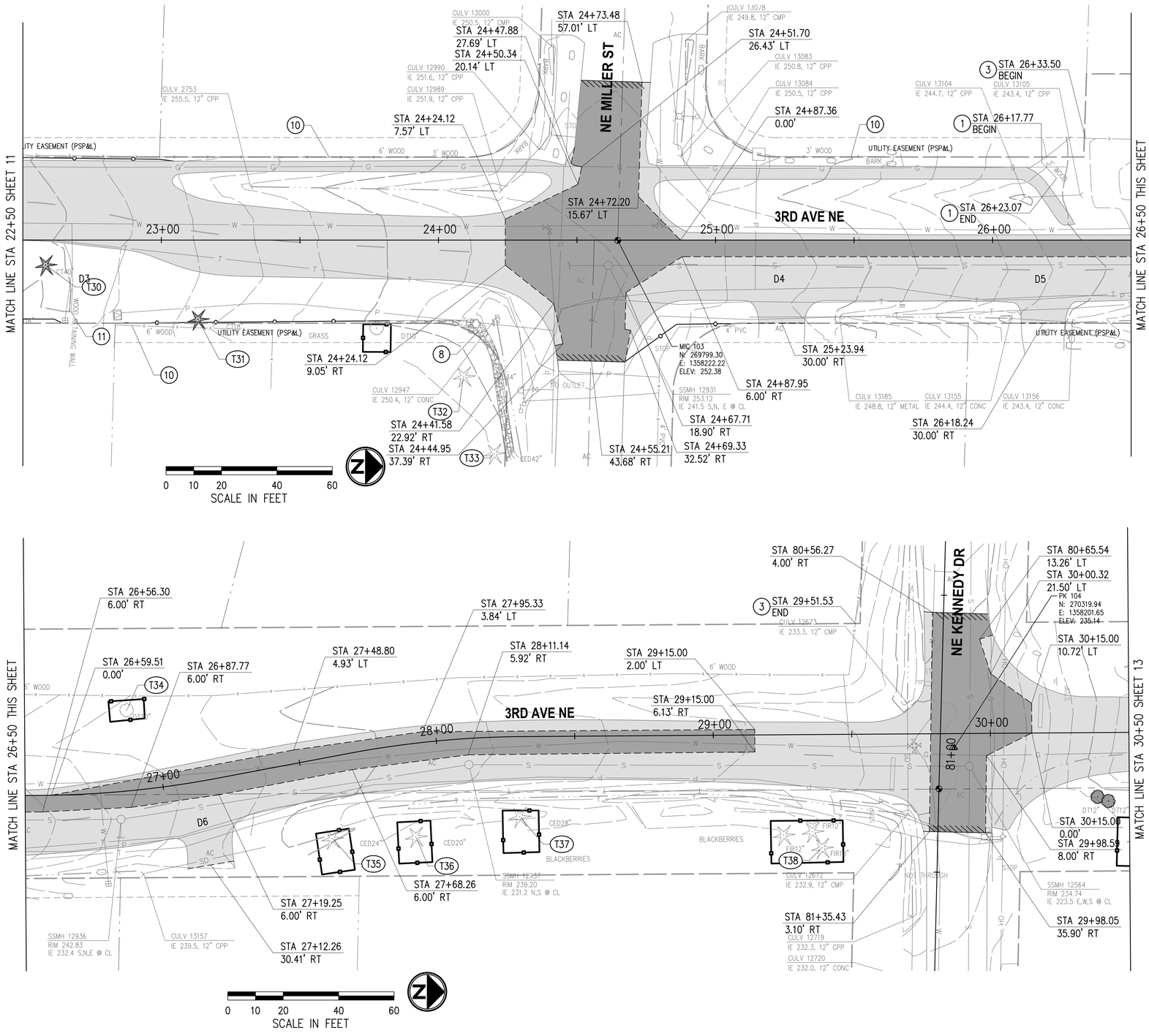
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3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 13+50 TO STA 22+50

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GENERAL SITE PREPARATION & TESC NOTES

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3. FOR STORMWATER REMOVALS, SEE SHEETS 30–40.
4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(3) REMOVE AND RELOCATE EXISTING FENCE AS SHOWN ON ROADWAY PLANS.

(8) PROTECT AND PRESERVE ROCKERY.

(10) PROTECT AND PRESERVE FENCE.

(11) PROTECT AND PRESERVE RETAINING WALL.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

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CITY OF DUVALL
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SITE PREPARATION & TESC PLAN
STA 22+50 TO STA 30+50

KPG PROJECT No. 21078 | SHT 12 OF 129

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SITE PREPARATION NOTES

(1) REMOVE FENCE.

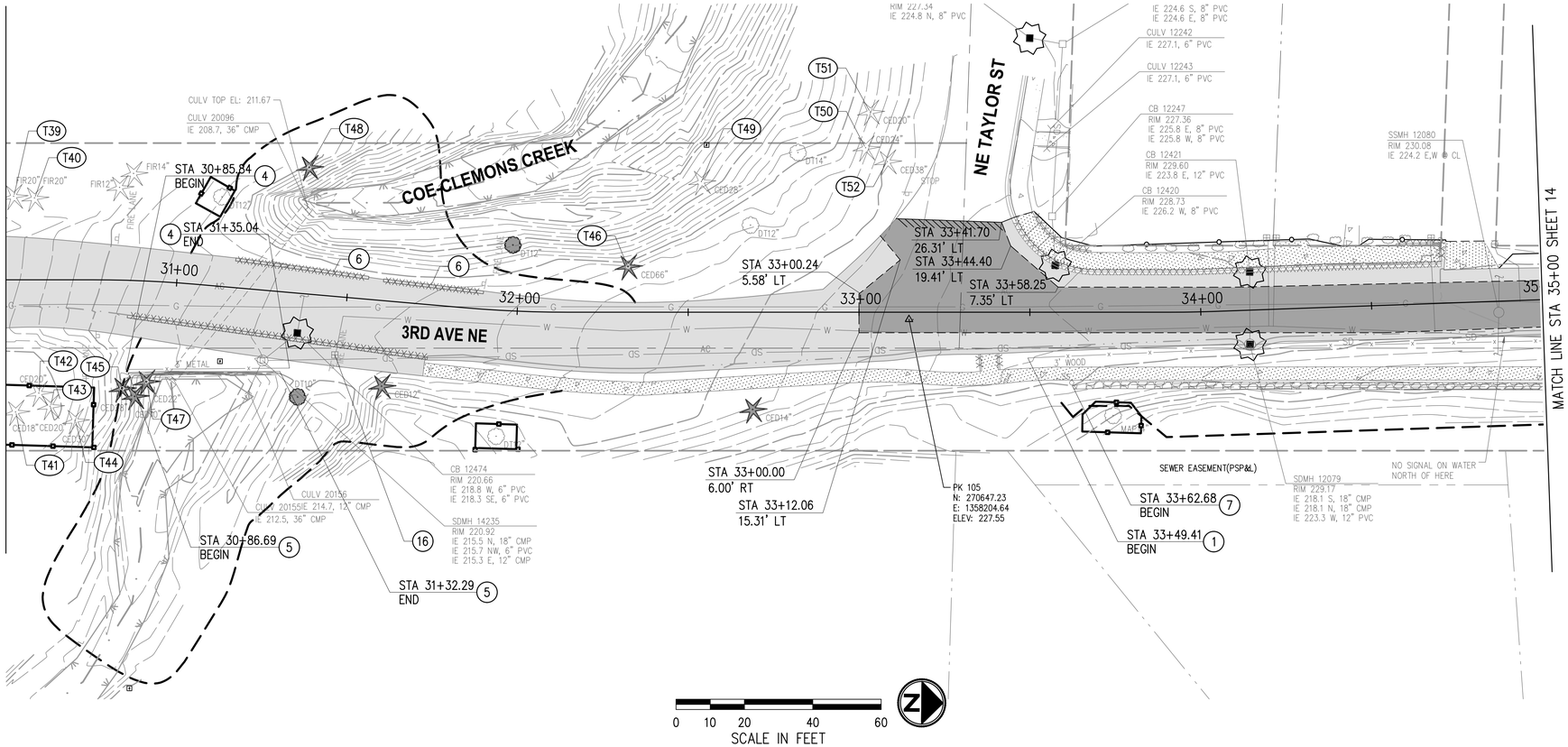
(4) REMOVE RAILING.

(5) REMOVE RETAINING WALL.

(6) REMOVE EXTRUDED CURB.

(7) REMOVE ROCKERY.

(16) REMOVE BLOW OFF ASSEMBLY SALVAGE TO CITY.



LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
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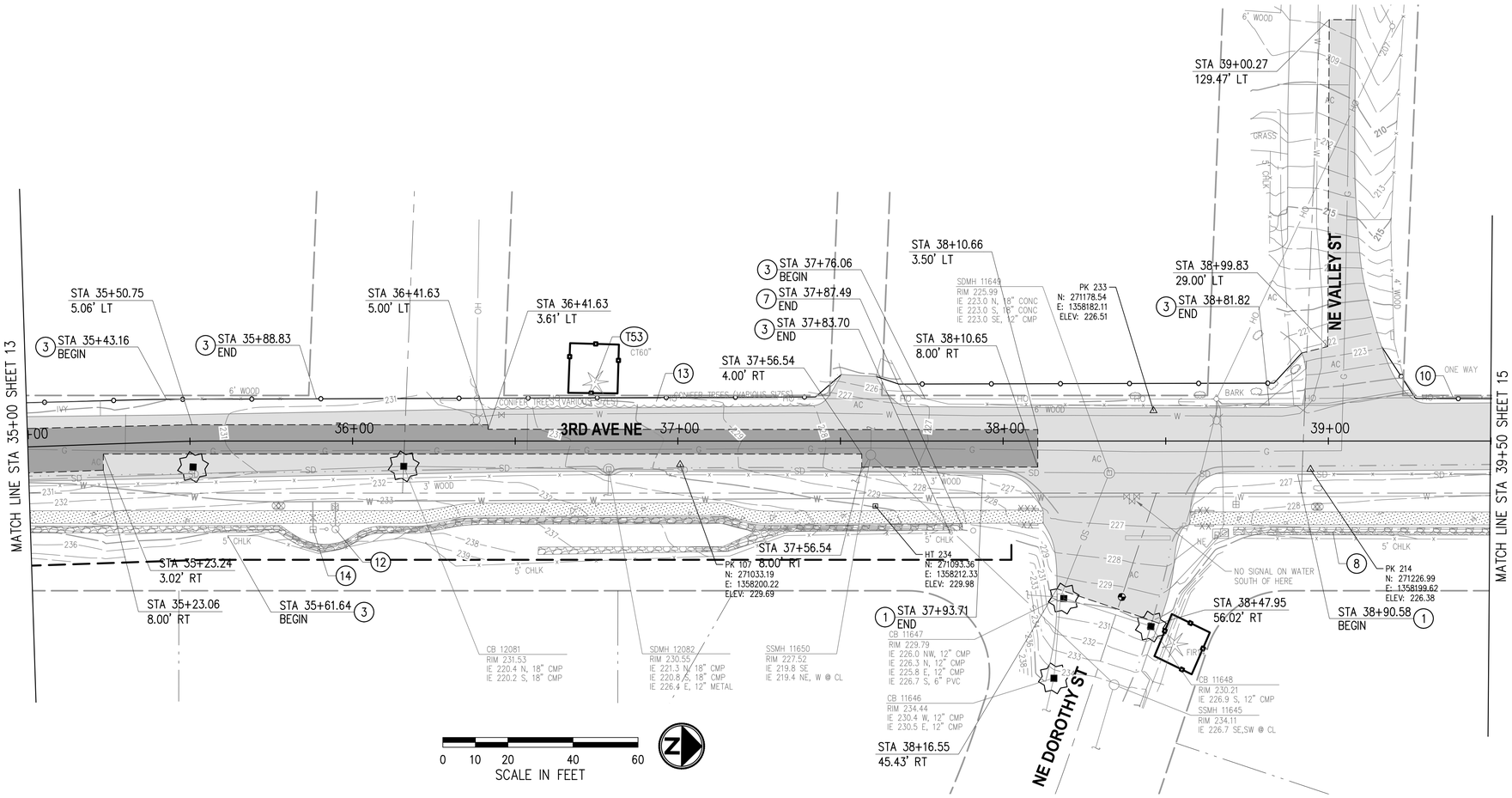
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 30+50+00 TO STA 35+00

KPG PROJECT No. 21078 | SHT 13 OF 129

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GENERAL SITE PREPARATION & TESC NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, TREES, AND VEGETATION NOT MARKED FOR REMOCAL, RELOCATION, OR ADJUSTMENT.
2. INLET PROTECTION SHALL BE PLACES IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 30–40.
4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(3) REMOVE AND RELOCATE EXISTING FENCE AS SHOWN ON ROADWAY PLANS.

(7) REMOVE ROCKERY.

(8) PROTECT AND PRESERVE ROCKERY.

(10) PROTECT AND PRESERVE FENCE.

(12) REMOVE FIRE HYDRANT ASSEMBLY AND SALVAGE TO CITY.

(13) CLEAR AND GRUB EXISTING VEGETATION AS REQUIRED TO COMPLETE WORK.

(14) REMOVE AIR AND VACUUM RELEASE ASSEMBLY AND SALVAGE TO CITY.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078SP.dwg FILENAME	
JRW	06/2023
DESIGNED BY	DATE
KAB	06/2023
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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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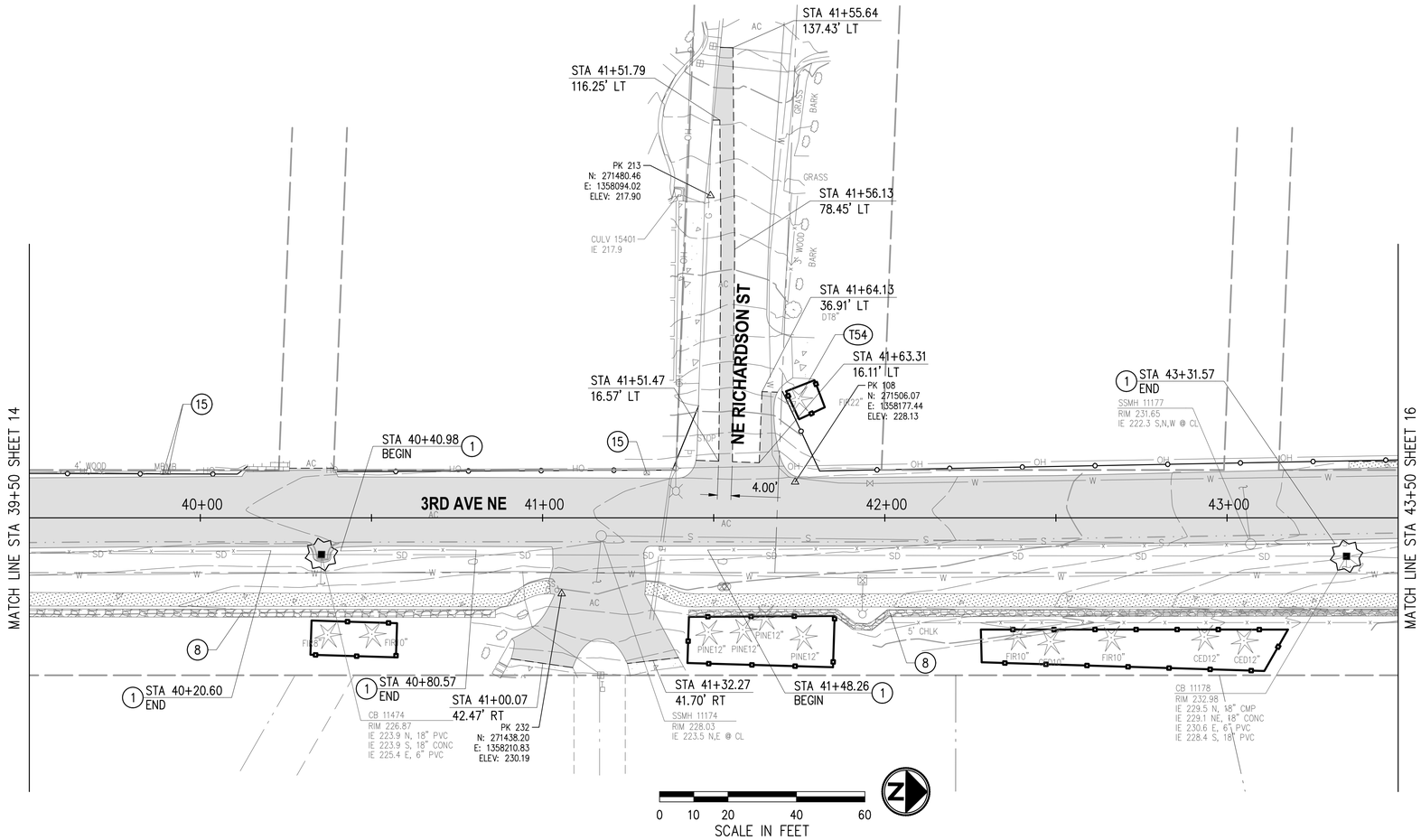
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SITE PREPARATION & TESC PLAN
STA 35+00+00 TO STA 39+50

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GENERAL SITE PREPARATION & TESC NOTES

1. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, TREES, AND VEGETATION NOT MARKED FOR REMOCAL, RELOCATION, OR ADJUSTMENT.
2. INLET PROTECTION SHALL BE PLACES IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND IN ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION.
3. FOR STORMWATER REMOVALS, SEE SHEETS 30–40.
4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(1) REMOVE FENCE.

(8) PROTECT AND PRESERVE ROCKERY.

(15) PROTECT AND PRESERVE MAILBOX.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
- SILT FENCE
- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

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SITE PREPARATION & TESC PLAN
STA 39+50 TO STA 43+50

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GENERAL SITE PREPARATION & TESC NOTES

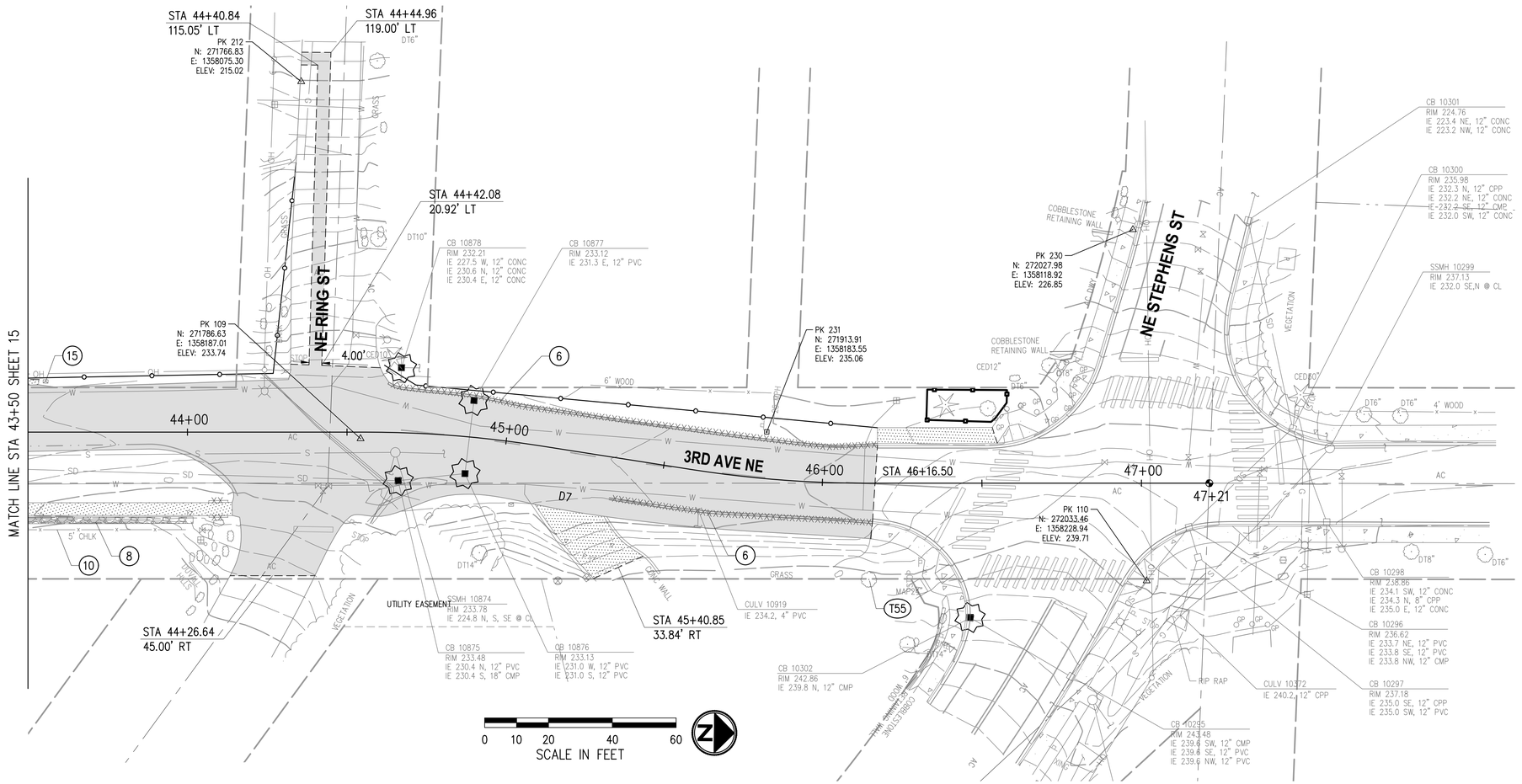
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4. FOR TREATMENT OF EXISTING ROADWAY SIGNS, SEE SHEETS 118–123.

SITE PREPARATION NOTES

(6) REMOVE EXTRUDED CURB.

(8) PROTECT AND PRESERVE ROCKERY.

(10) PROTECT AND PRESERVE FENCE.



LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- FULL DEPTH SAWCUT
- PLANING BITUMINOUS PAVEMENT
- CLEARING LIMITS
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- TREE PROTECTION LIMITS
- BUTT JOINT
- (T#) SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

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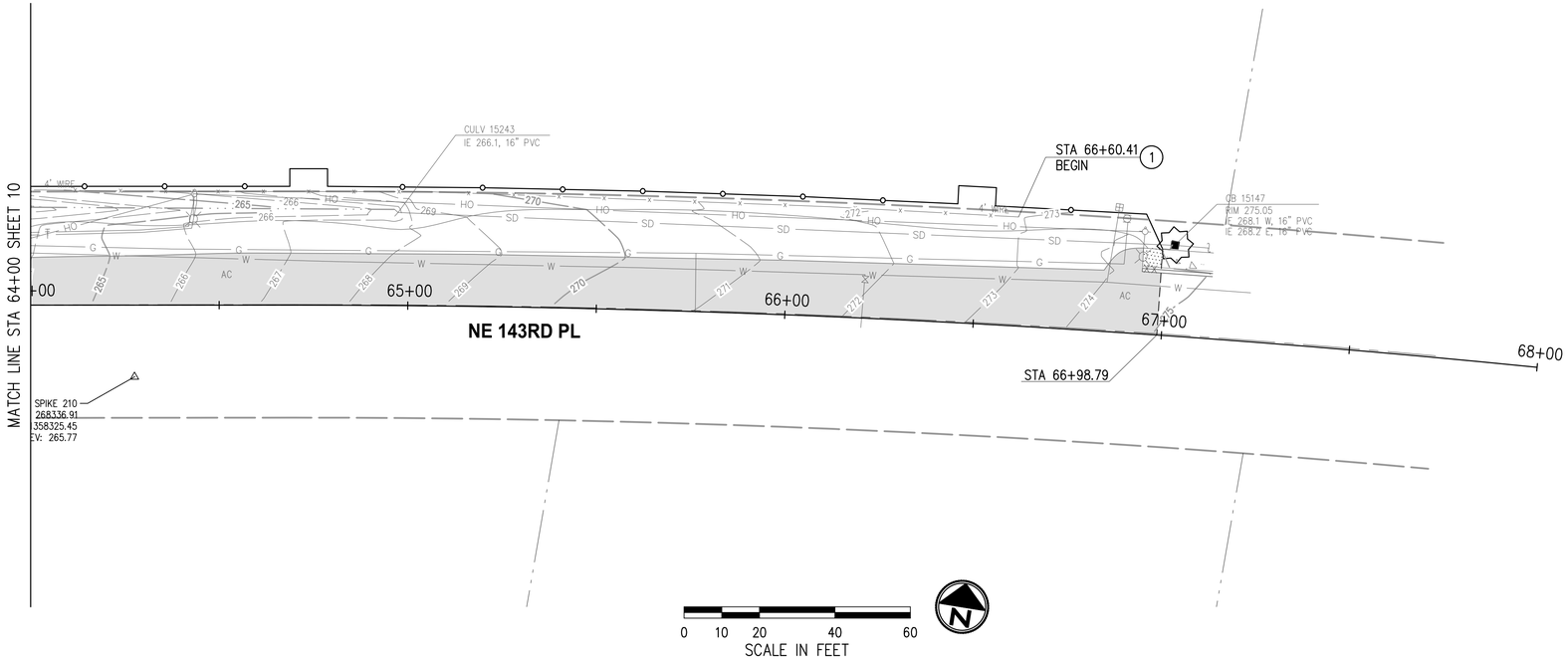
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3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 43+50 TO STA 47+21

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GENERAL SITE PREPARATION & TESC NOTES

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SITE PREPARATION NOTES

(1) REMOVE FENCE.

LEGEND

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- CURB REMOVAL
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
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- TREE PROTECTION LIMITS
- BUTT JOINT
- T# SIGNIFICANT TREE ID NUMBER, SEE SHEET 18

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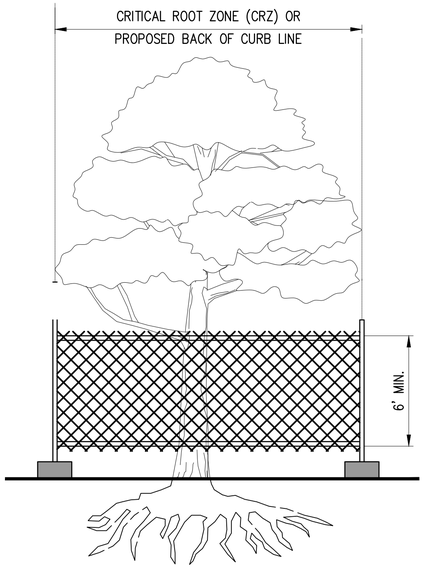
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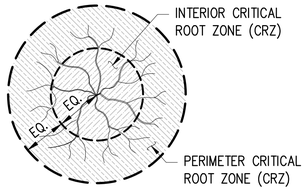
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

SITE PREPARATION & TESC PLAN
STA 64+00 TO STA 68+00

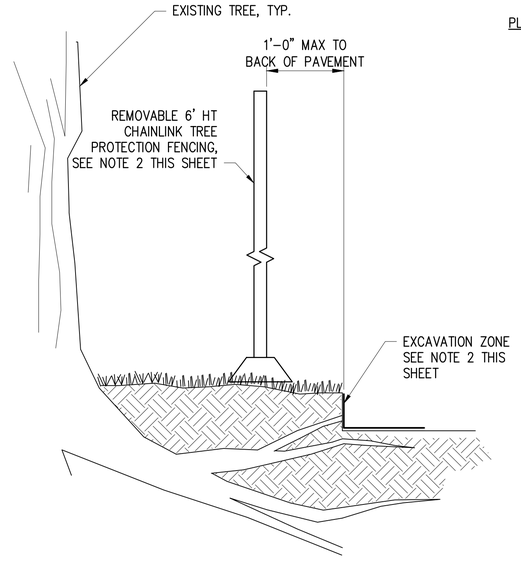
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SHT 17 OF 129





PLAN VIEW – CRITICAL ROOT ZONE



SECTION PRIOR TO PAVED SURFACE INSTALLATION

TREE PROTECTION DETAILS

NTS

TREE PROTECTION NOTES:

1. INSTALL TREE PROTECTION FENCING AROUND ALL TREES TO REMAIN AS NOTED ON PLANS OR WHERE CONSTRUCTION LIMITS COME WITHIN THE CRITICAL ROOT ZONE (CRZ) OF THE TREE, DEFINED AS AN AREA EQUAL TO 1' RADIUS FOR EVERY 1" DIAMETER OF TREE TRUNK (MEASURED AT 4.5' ABOVE GRADE). NO SOIL DISTURBANCE SHALL TAKE PLACE BEFORE TREE PROTECTION FENCING IS INSTALLED.
2. SIX FOOT HIGH TEMPORARY CHAIN LINK FENCE SHALL BE INSTALLED AROUND THE CRITICAL ROOT ZONE (CRZ). FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
3. TREE PROTECTION FENCING SHALL BE CONSOLIDATED AROUND SIGNIFICANT GROUPINGS OF EXISTING TREES TO REMAIN WHERE POSSIBLE; ENTIRE CRITICAL ROOT ZONE (CRZ) OF TREE GROUPING SHALL BE PROTECTED PER DETAIL.
4. THE CRITICAL ROOT ZONE (CRZ) IS SUBDIVIDED INTO THE INTERIOR CRITICAL ROOT ZONE AND THE PERIMETER CRITICAL ROOT ZONE AS PER THE DETAIL THIS SHEET. PORTIONS OF THE CHAIN LINK TREE PROTECTION FENCING MAY BE MOVED INTO THE PERIMETER CRITICAL ROOT ZONE IF UNABLE TO PROTECT THE ENTIRE CRZ. THIS IS ONLY PERMITTED FOR PORTIONS OF THE CRZ THAT ARE IN CONFLICT WITH CONSTRUCTION ACTIVITIES BASED UPON APPROVAL OF ENGINEER. WHERE CONSTRUCTION ACTIVITIES WOULD IMPACT THE INTERIOR CRZ, CONTACT THE ENGINEER FOR REEVALUATION PRIOR TO BEGINNING WORK. WORK WITHIN THE INTERIOR CRZ COULD DESTABILIZE OR DAMAGE THE TREE.
5. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS LESS THAN 2" IN DIAMETER THAT MUST BE CUT DURING CONSTRUCTION; MAKE A CLEAN, STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. FOR ROOTS GREATER THAN 2" IN DIAMETER, CONTACT ENGINEER FOR APPROVAL. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
6. WORK WITHIN TREE PROTECTION FENCING SHALL BE DONE MANUALLY. NO STOCKPILE OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE FENCING.
7. ALL TREES NOTED FOR REMOVAL SHALL BE APPROVED BY THE ENGINEER, PRIOR TO START OF CONSTRUCTION ACTIVITIES.
8. ALL TREES TO REMAIN WITHIN CONSTRUCTION LIMITS, SHALL BE TAGGED FOR APPROVAL BY THE ENGINEER, PRIOR TO START OF CONSTRUCTION ACTIVITIES.
9. MAINTAIN FENCING IN PLACE UNTIL THE CITY AUTHORIZES REMOVAL OR A FINAL APPROVAL IS ISSUED.
10. SIGNS SHALL BE ATTACHED TO THE TREE PROTECTION FENCING STATING THAT THE TREE IS DESIGNATED FOR PROTECTION AND THE AREA INSIDE OF THE FENCE IS NOT TO BE DISTURBED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.

SIGNIFICANT TREE SCHEDULE (16" OR GREATER DBH*)

ID #	STATION	OFFSET	TYPE	DBH*	COMMENTS
T1	10+35.74	35.61' LT	DECIDUOUS	28	RETAIN
T2	10+61.16	30.96' LT	CONIFER	48	RETAIN
T3	12+86.08	34.49' RT	CONIFER	24	RETAIN
T4	13+74.48	33.54' RT	CONIFER	40	RETAIN
T5	13+95.62	34.68' RT	CONIFER	36	RETAIN
T6	14+11.32	35.12' RT	CONIFER	16	RETAIN
T7	14+44.29	31.30' RT	CONIFER	28	RETAIN
T8	14+55.55	30.58' RT	CONIFER	26	RETAIN
T9	14+66.79	32.42' RT	CONIFER	28	RETAIN
T10	14+76.98	32.24' RT	CONIFER	24	RETAIN
T11	14+86.95	34.17' RT	CONIFER	20	RETAIN
T12	15+11.36	31.89' RT	CONIFER	28	RETAIN
T13	15+23.72	35.34' RT	CONIFER	18	RETAIN
T14	15+58.28	35.73' LT	CONIFER	30	RETAIN
T15	16+28.12	32.59' LT	DECIDUOUS	16	RETAIN
T16	17+28.26	53.57' RT	DECIDUOUS	18	RETAIN
T17	17+64.46	44.35' RT	CONIFER	28	RETAIN
T18	17+65.09	56.29' RT	CONIFER	28	RETAIN
T19	17+58.92	66.82' RT	CONIFER	28	RETAIN
T20	20+06.63	23.89' RT	CONIFER	24	REMOVE
T21	20+11.66	25.44' RT	CONIFER	20	REMOVE
T22	20+16.05	26.23' RT	CONIFER	16	REMOVE
T23	20+22.93	26.63' RT	CONIFER	24	REMOVE
T24	21+63.95	58.31' LT	DECIDUOUS	20	RETAIN
T25	21+72.39	7.60' RT	DECIDUOUS	30	REMOVE
T26	22+14.11	21.11' RT	DECIDUOUS	16	REMOVE
T27	22+22.38	26.59' RT	DECIDUOUS	16	REMOVE
T28	22+30.05	22.54' RT	DECIDUOUS	48	REMOVE

SIGNIFICANT TREE SCHEDULE (16" OR GREATER DBH*)

ID #	STATION	OFFSET	TYPE	DBH*	COMMENTS
T29	22+32.30	32.43' LT	DECIDUOUS	24	RETAIN
T30	22+58.19	9.00' RT	CONIFER	40	REMOVE
T31	23+13.18	28.61' RT	CONIFER	18	REMOVE
T32	24+09.09	49.20' RT	CONIFER	34	RETAIN
T33	24+20.09	77.04' RT	CONIFER	42	RETAIN
T34	26+89.70	29.07' LT	DECIDUOUS	30	RETAIN
T35	27+56.51	29.02' RT	CONIFER	24	RETAIN
T36	27+88.14	33.49' RT	CONIFER	20	RETAIN
T37	28+29.83	28.90' RT	CONIFER	28	RETAIN
T38	29+38.96	40.92' RT	CONIFER	18	RETAIN
T39	30+52.28	24.45' LT	CONIFER	20	RETAIN
T40	30+58.36	23.96' LT	CONIFER	20	RETAIN
T41	30+52.82	38.67' RT	CONIFER	18	RETAIN
T42	30+59.63	33.13' RT	CONIFER	20	RETAIN
T43	30+62.93	37.01' RT	CONIFER	20	RETAIN
T44	30+70.23	41.15' RT	CONIFER	30	RETAIN
T45	30+84.89	31.63' RT	CONIFER	28	REMOVE
T46	32+32.41	13.41' LT	CONIFER	66	REMOVE
T47	30+92.60	29.40' RT	CONIFER	22	REMOVE
T48	31+35.65	36.92' LT	CONIFER	20	REMOVE
T49	32+53.89	38.26' LT	CONIFER	28	RETAIN
T50	33+01.93	48.14' LT	CONIFER	24	RETAIN
T51	33+03.30	58.61' LT	CONIFER	20	RETAIN
T52	33+08.27	44.06' LT	CONIFER	38	RETAIN
T53	36+74.46	18.09' LT	CONIFER	60	RETAIN
T54	41+74.81	34.84' LT	CONIFER	22	RETAIN
T55	46+14.56	30.16' RT	DECIDUOUS	24	RETAIN

* DBH = DIAMETER AT BREAST HEIGHT (FOUR AND ONE–HALF FEET ABOVE GROUND).

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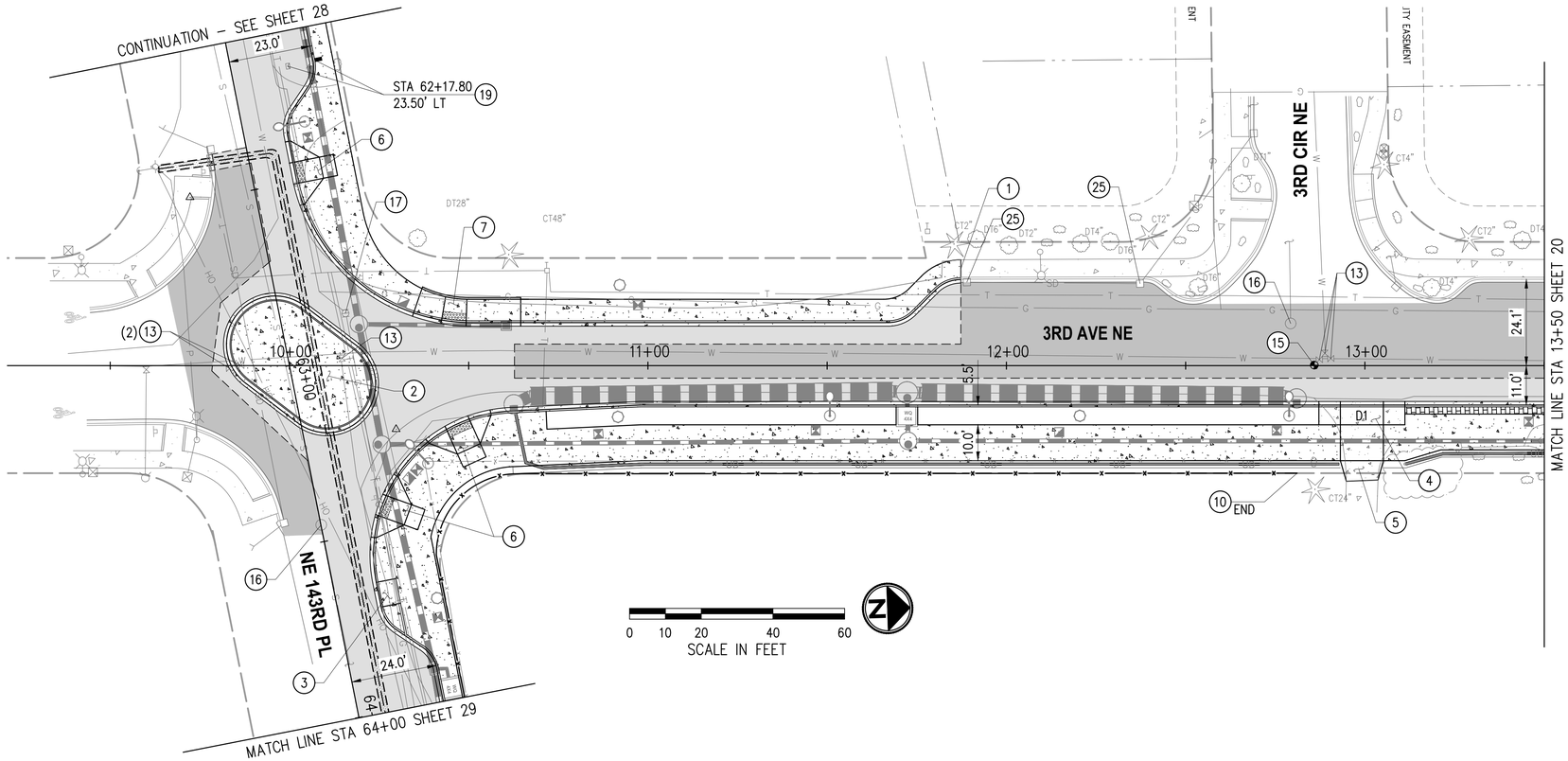
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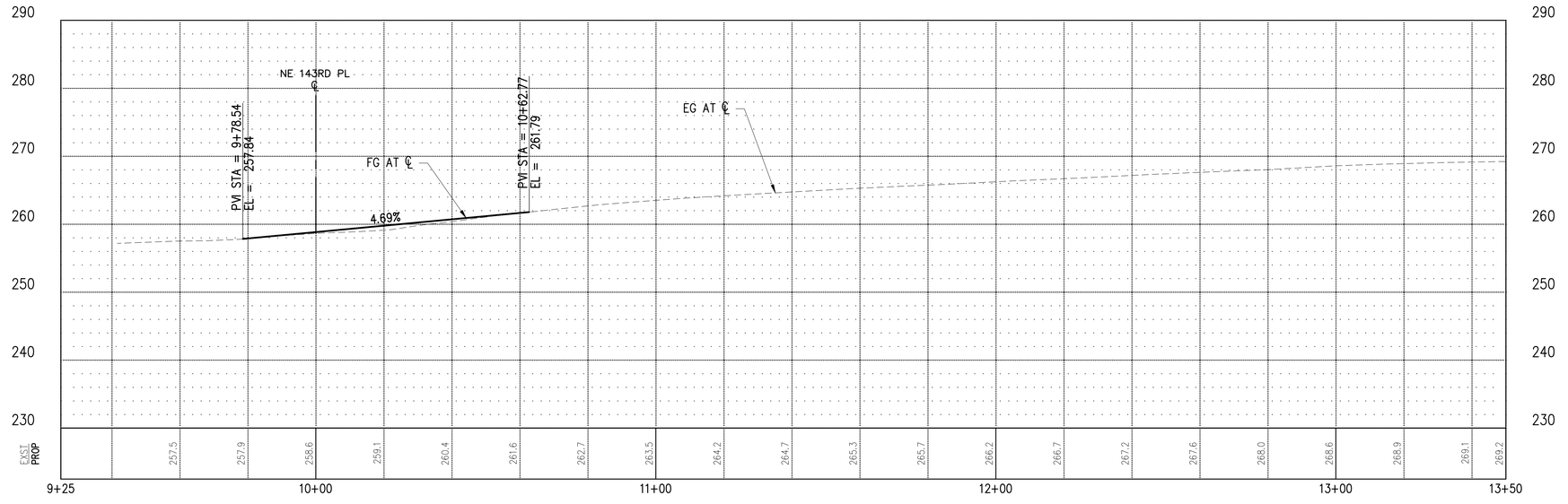
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3RD AVENUE NE RECONSTRUCTION

TREE PRESERVATION
DETAILS & SCHEDULE

KPG PROJECT No. 21078 | SHT 18 OF 129





GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 68.

(3) CONSTRUCT CEMENT CONC BIKE RAMP, SEE SHEETS 69–80.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 69–80.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3–040–003 AND SHEETS 69–80.

(10) INSTALL FENCE.

(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(17) ADJUST GAS VALVE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–040–003 AND SHEETS 69–80.

(25) ADJUST CATCH BASIN TO GRADE.

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PROJECT ENGINEER	DATE

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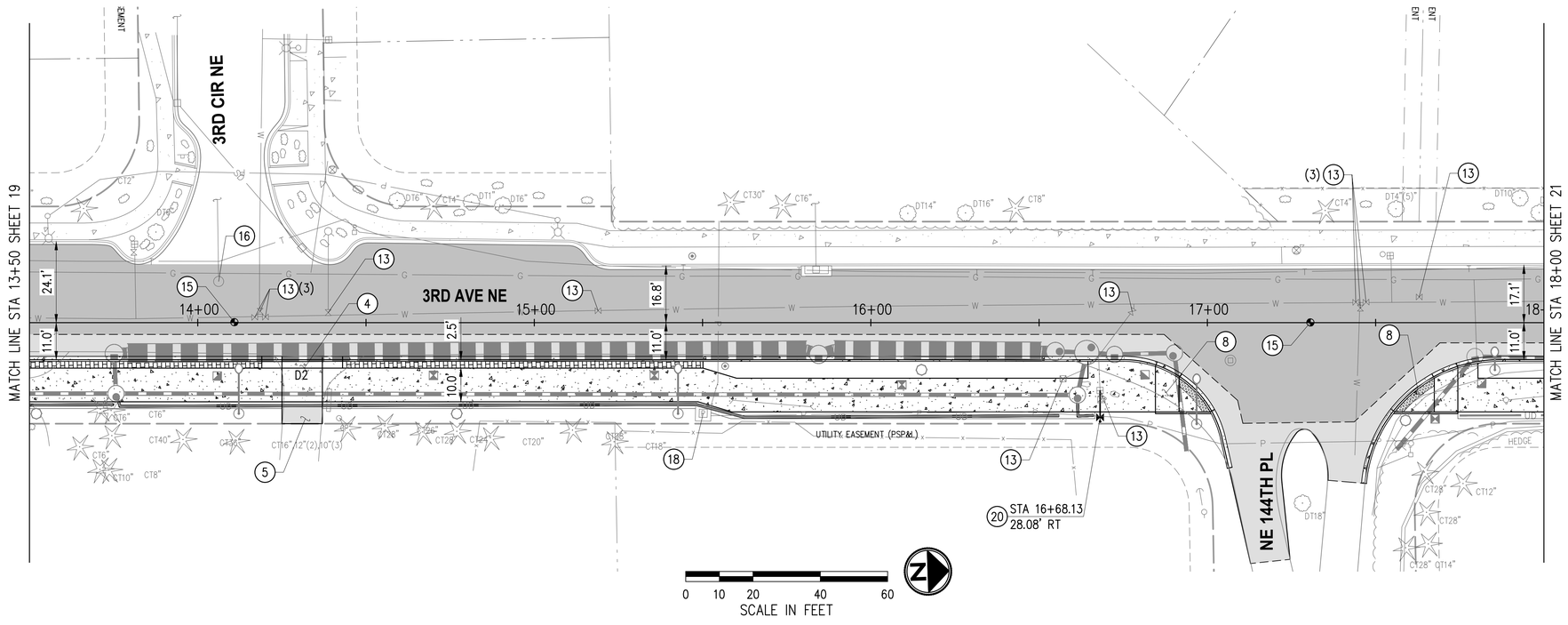
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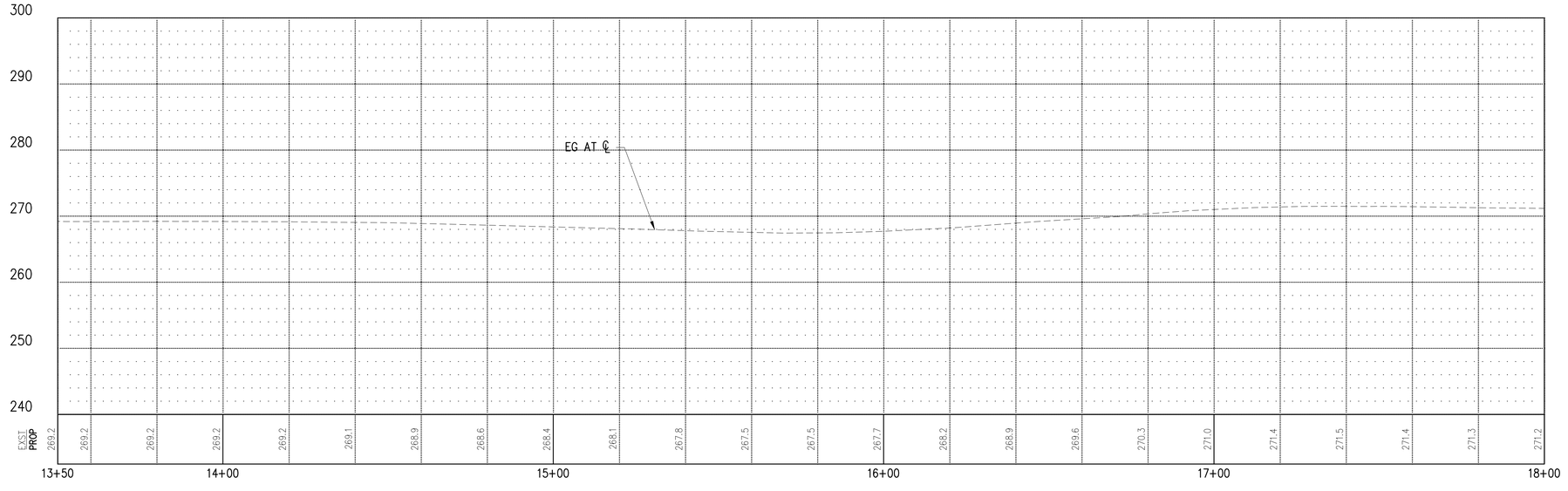
ROADWAY PLAN & PROFILE
STA 9+25 TO STA 13+50

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2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5-8
- HMA CL 1/2" PG 58H-22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 69–80.

(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(18) ADJUST UTILITY VAULT TO GRADE.

(20) RELOCATE WATER SAMPLE STATION.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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JRW	06/2023
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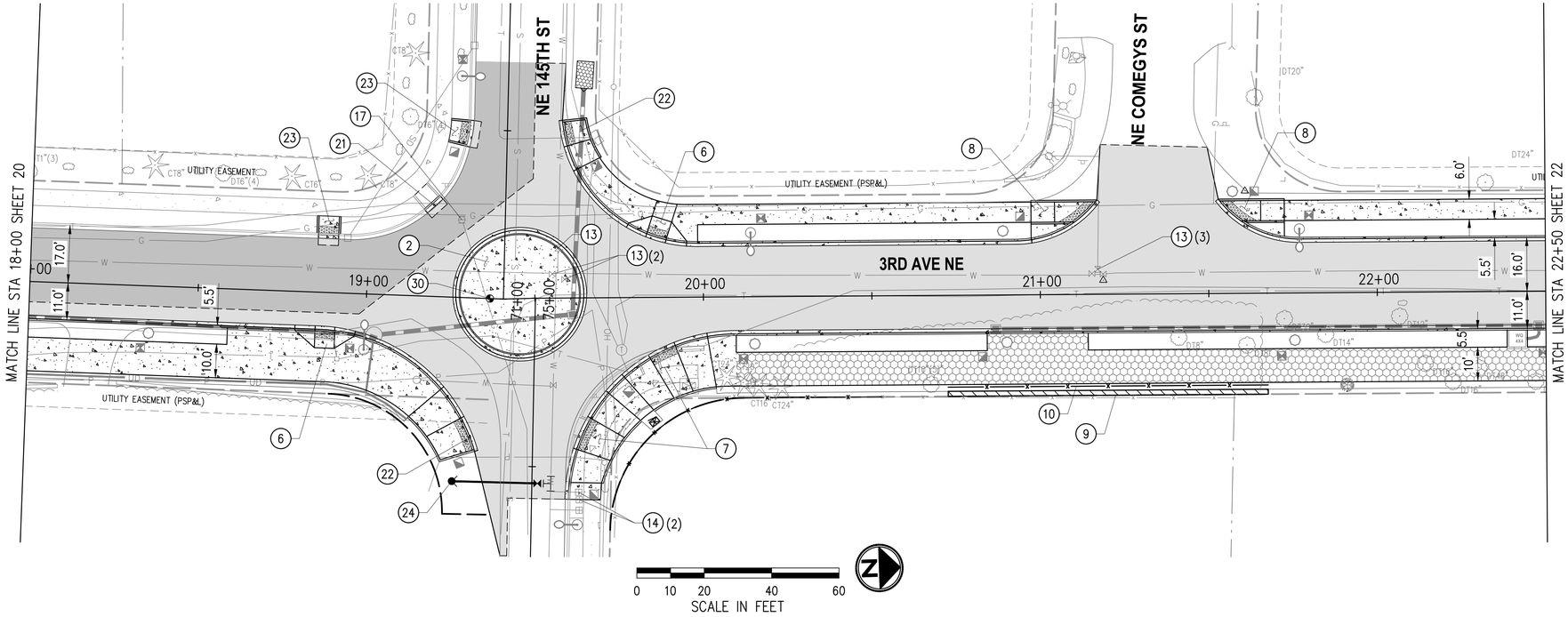
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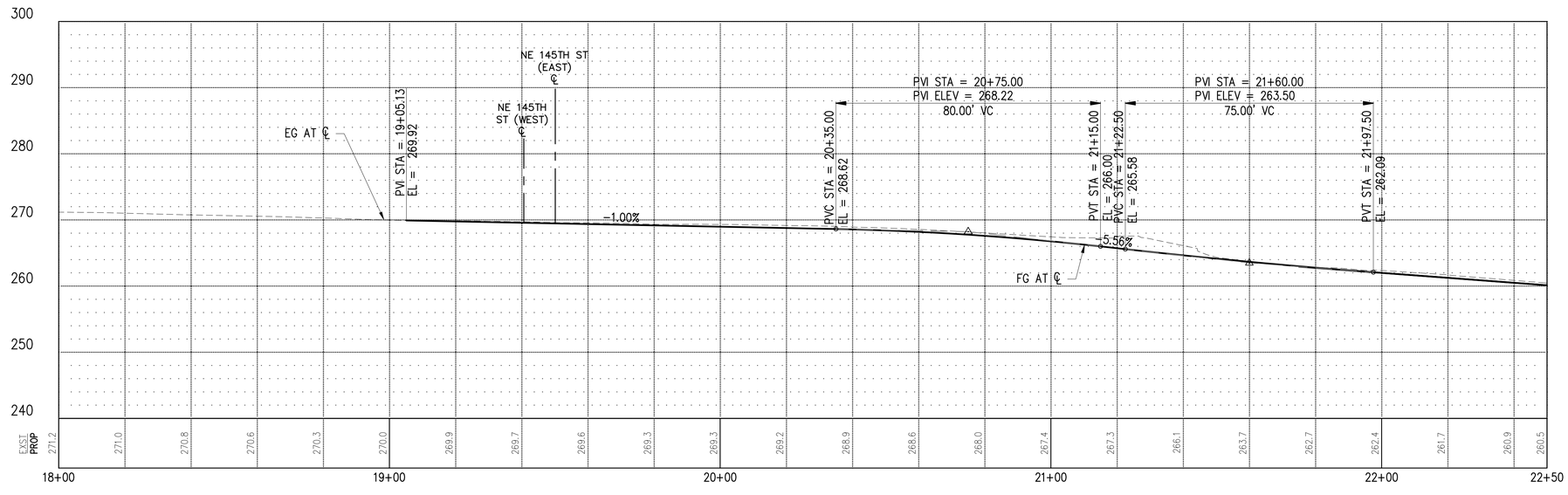
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 13+50 TO STA 18+00

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5–8
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- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 68.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3-040-002 AND SHEETS 69-80.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3-040-003 AND SHEETS 69-80.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 69-80.

(9) CONSTRUCT RETAINING WALL PER SHEETS 64–67.

(10) INSTALL FENCE.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(17) ADJUST GAS VALVE TO GRADE.

(21) CONSTRUCT VERTICAL CURB AND GUTTER, 6" EXPOSURE, PER COD STD DETAIL 3-030-002. MATCH EXISTING.

(22) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL B PER COD STD DETAIL 3-040-003 AND SHEETS 69-80.

(23) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR B PER COD STD DETAIL 3-040-002 AND SHEETS 69-80.

(24) INSTALL FIRE HYDRANT ASSEMBLY PER COD STD DET 2-060-001.

(30) REESTABLISH SURVEY MONUMENT WITH CASE AND COVER PER COD STD DETAIL 3-050-014.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT ENGINEER	DATE

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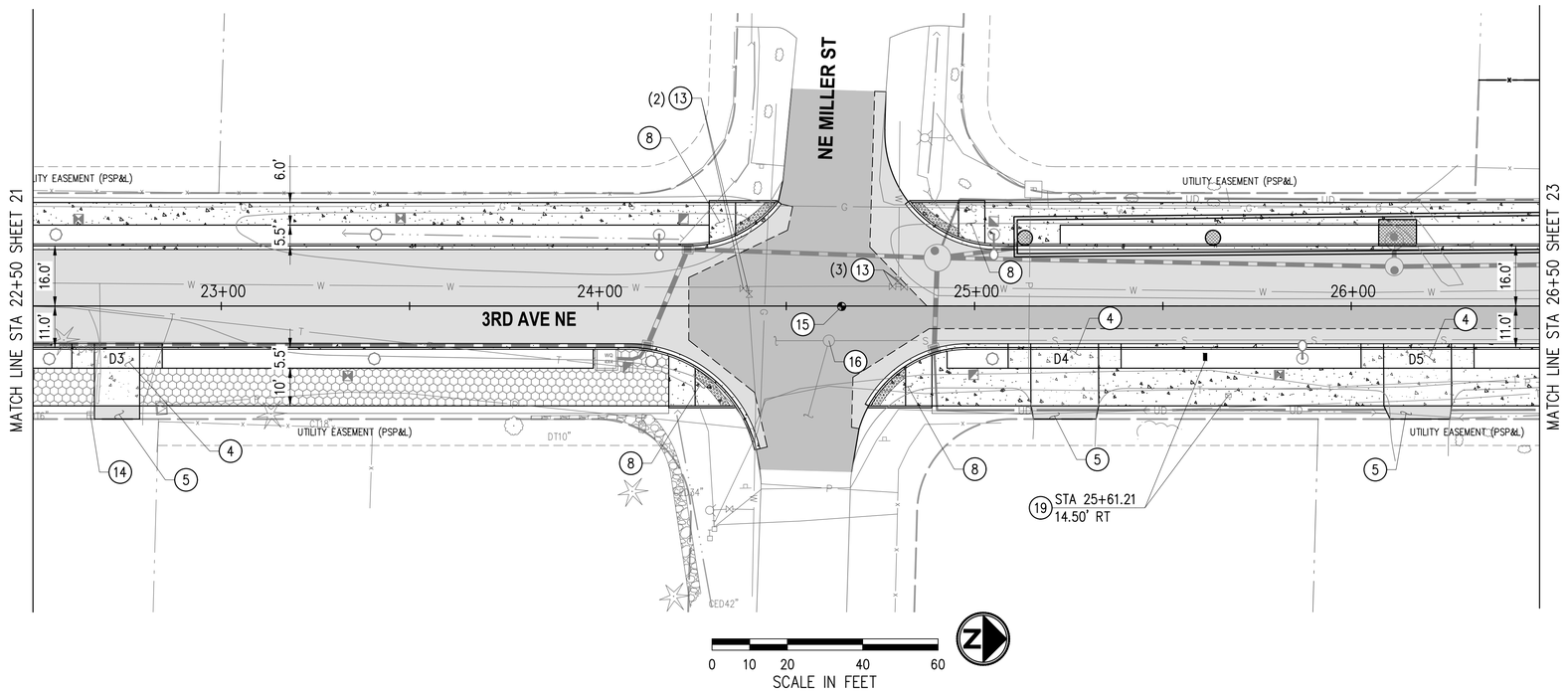
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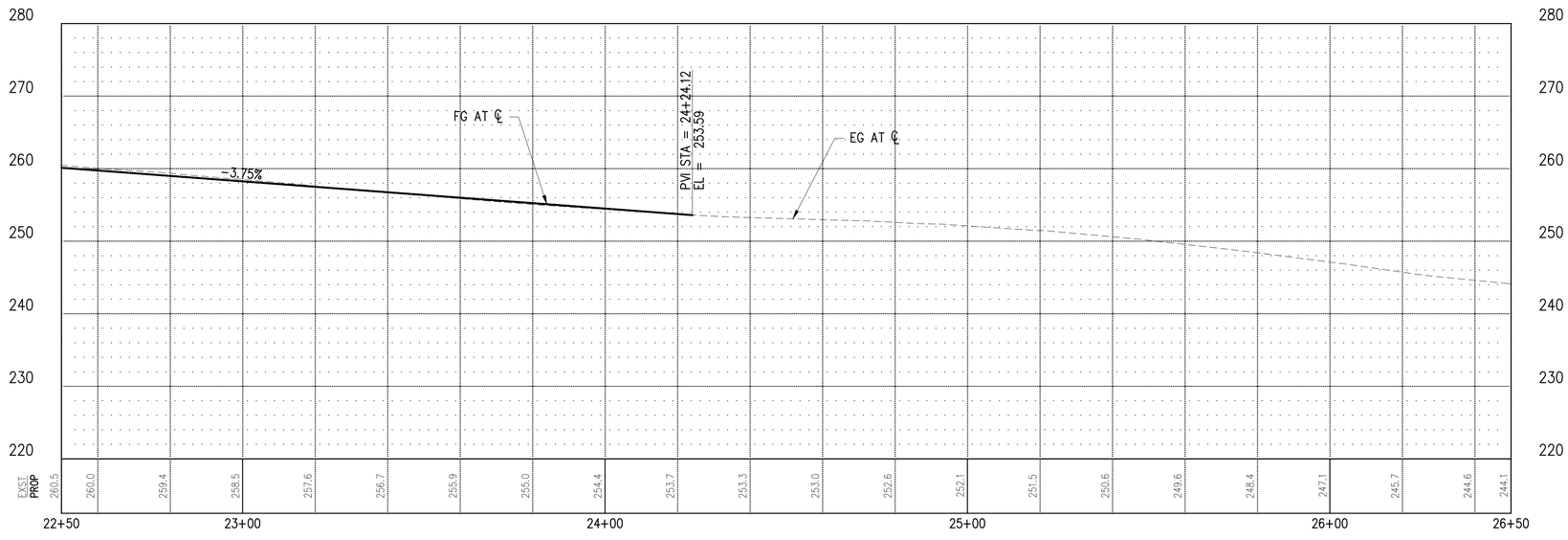
ROADWAY PLAN & PROFILE
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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
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6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 69–80.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3–040–003 AND SHEETS 69–80.

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Approved By

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PROJECT ENGINEER	DATE

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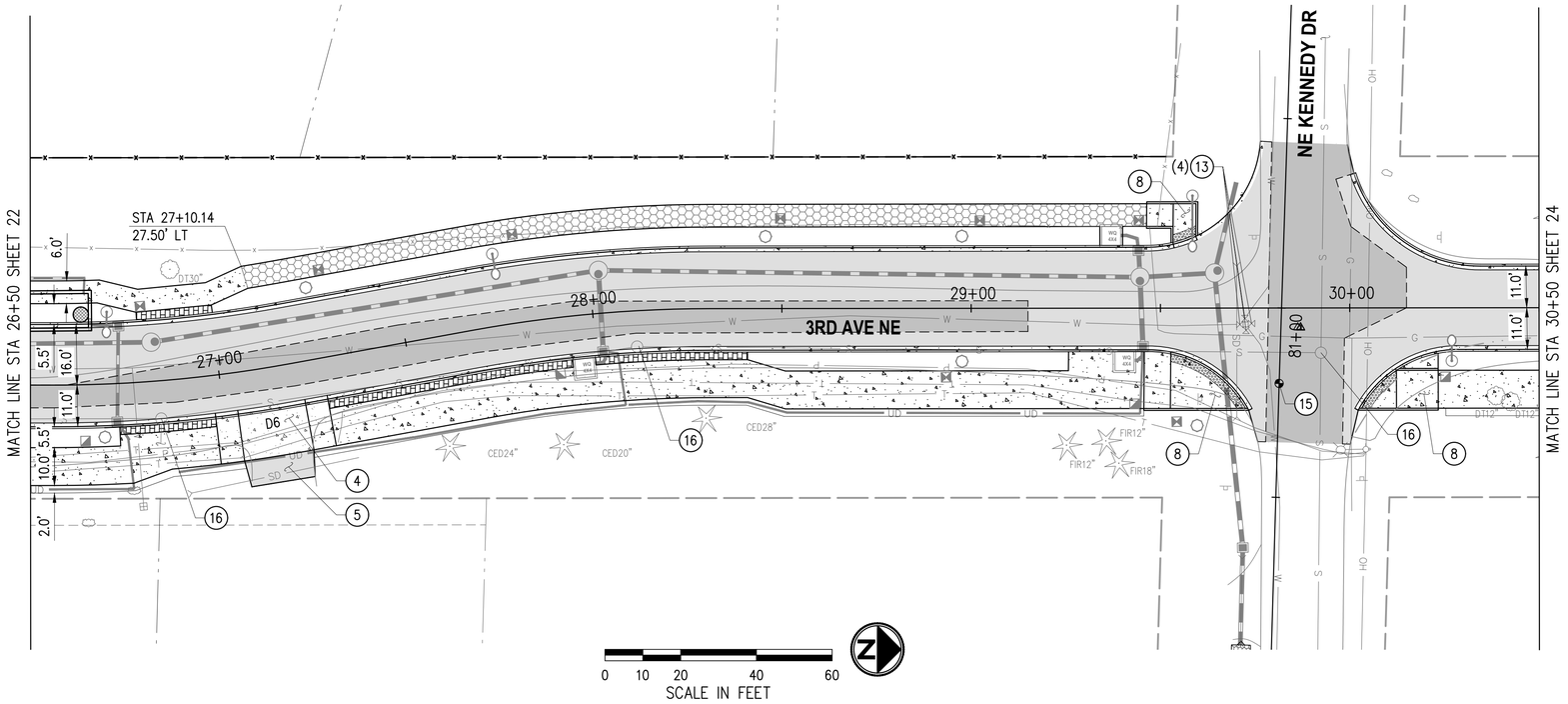
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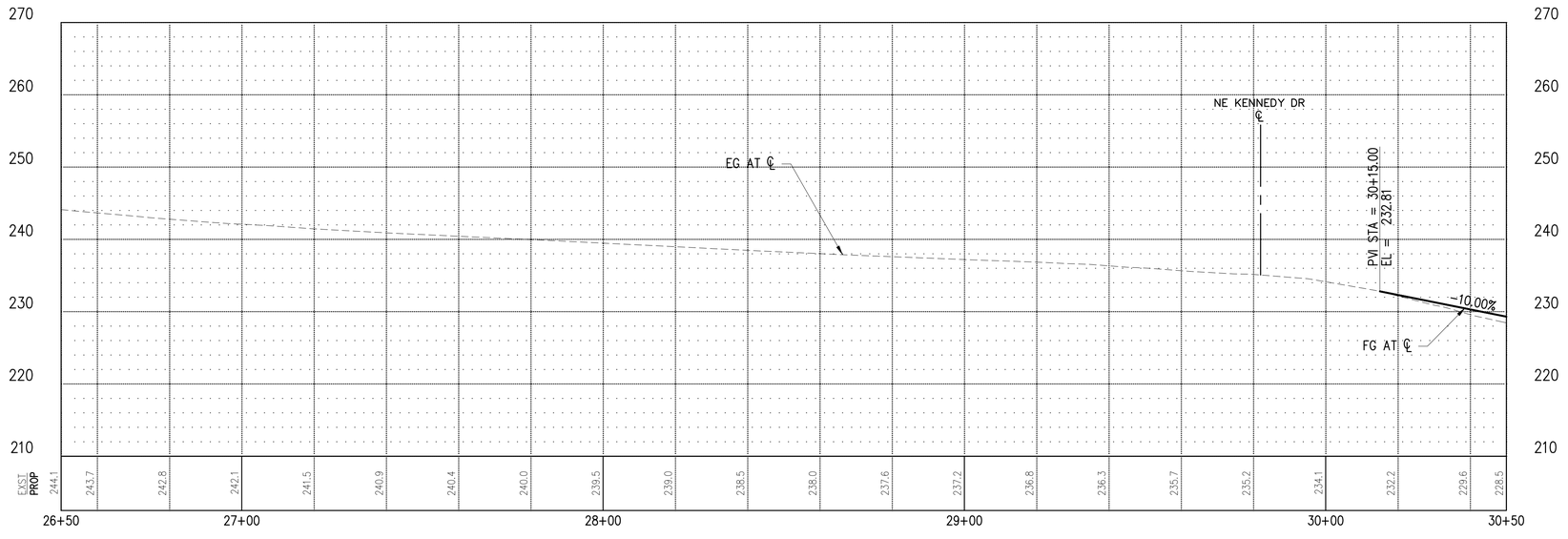
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ROADWAY PLAN & PROFILE
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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
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LEGEND

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- HMA CL 1/2" PG 58H–22 OVERLAY
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- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
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CONSTRUCTION NOTES

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3–040–005 AND SHEETS 69–80.

(13) ADJUST WATER VALVE BOX TO GRADE.

(15) ADJUST MONUMENT CASE AND COVER TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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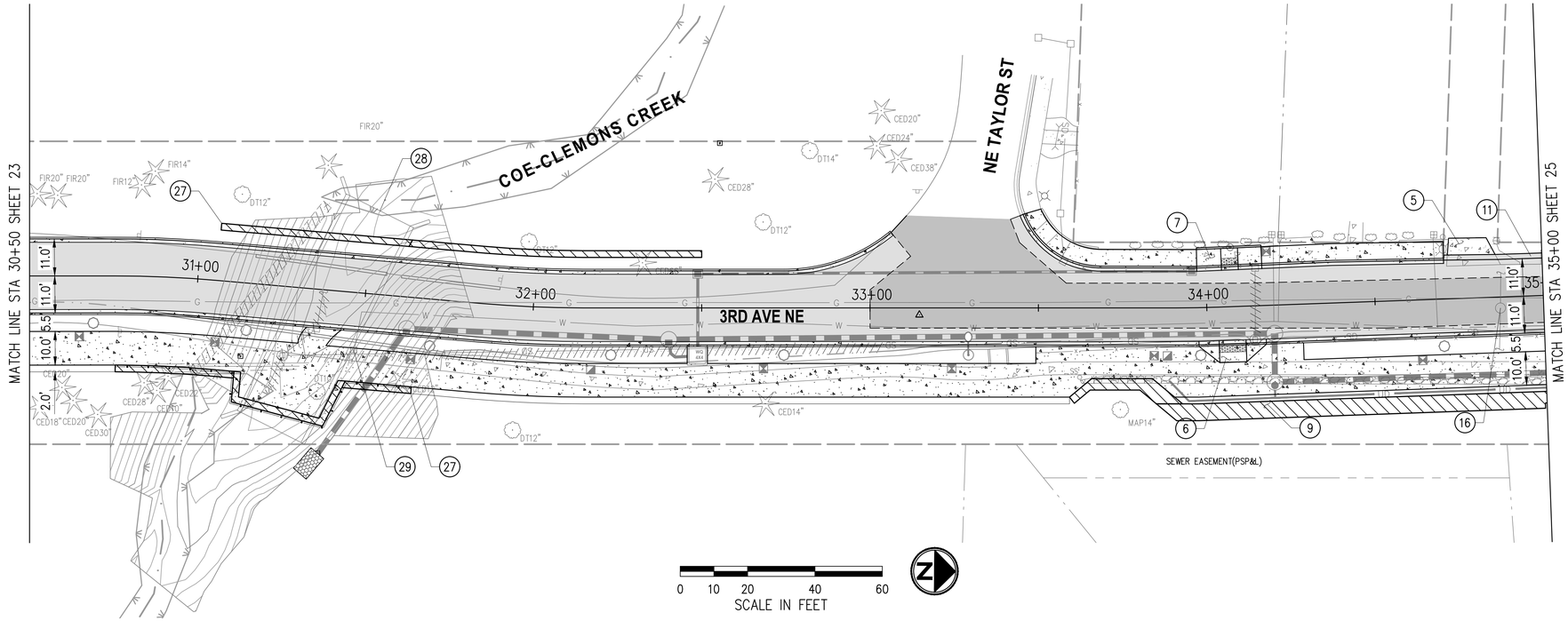
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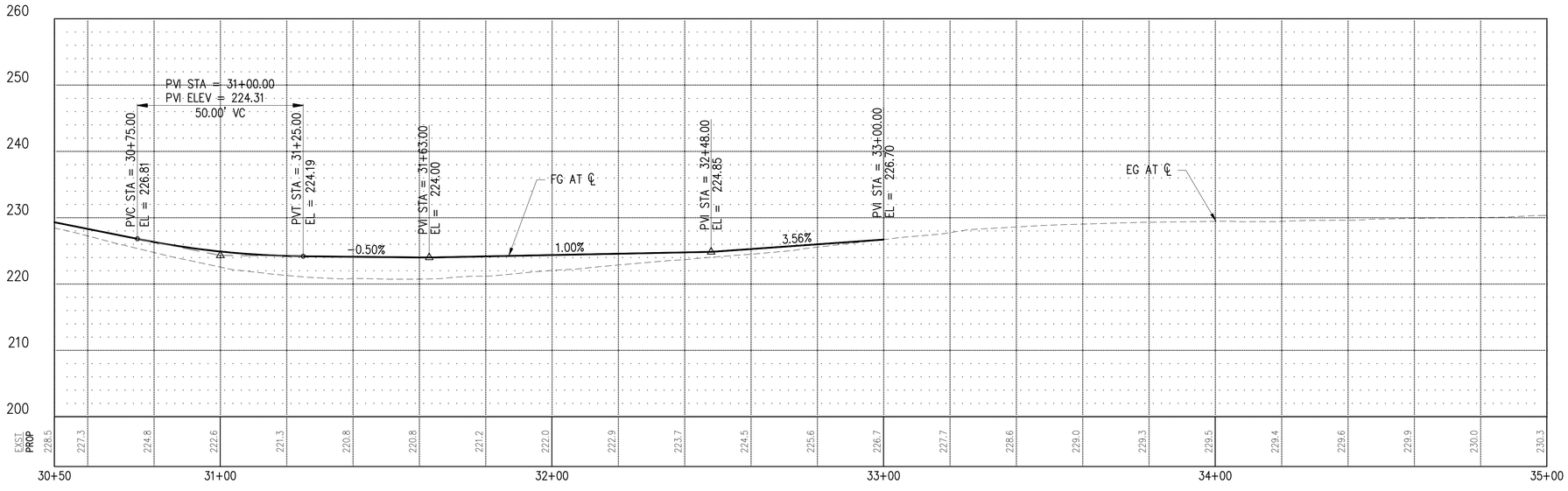
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ROADWAY PLAN & PROFILE
STA 26+50 TO STA 30+50

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
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7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 69–80.

(7) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL A PER COD STD DETAIL 3–040–003 AND SHEETS 69–80.

(9) CONSTRUCT RETAINING WALL PER SHEETS 64–67.

(11) CONSTRUCT ASPHALT WEDGE CURB.

(16) ADJUST SEWER MANHOLE TO GRADE.

(27) CONSTRUCT RETAINING WALL PER SHEETS 51–58.

(28) INSTALL CULVERT AND STREAM RESTORATION PER SHEETS 51–63.

(29) INSTALL 2" BLOW OFF ASSEMBLY PER COD STD DETAIL 2–120–001.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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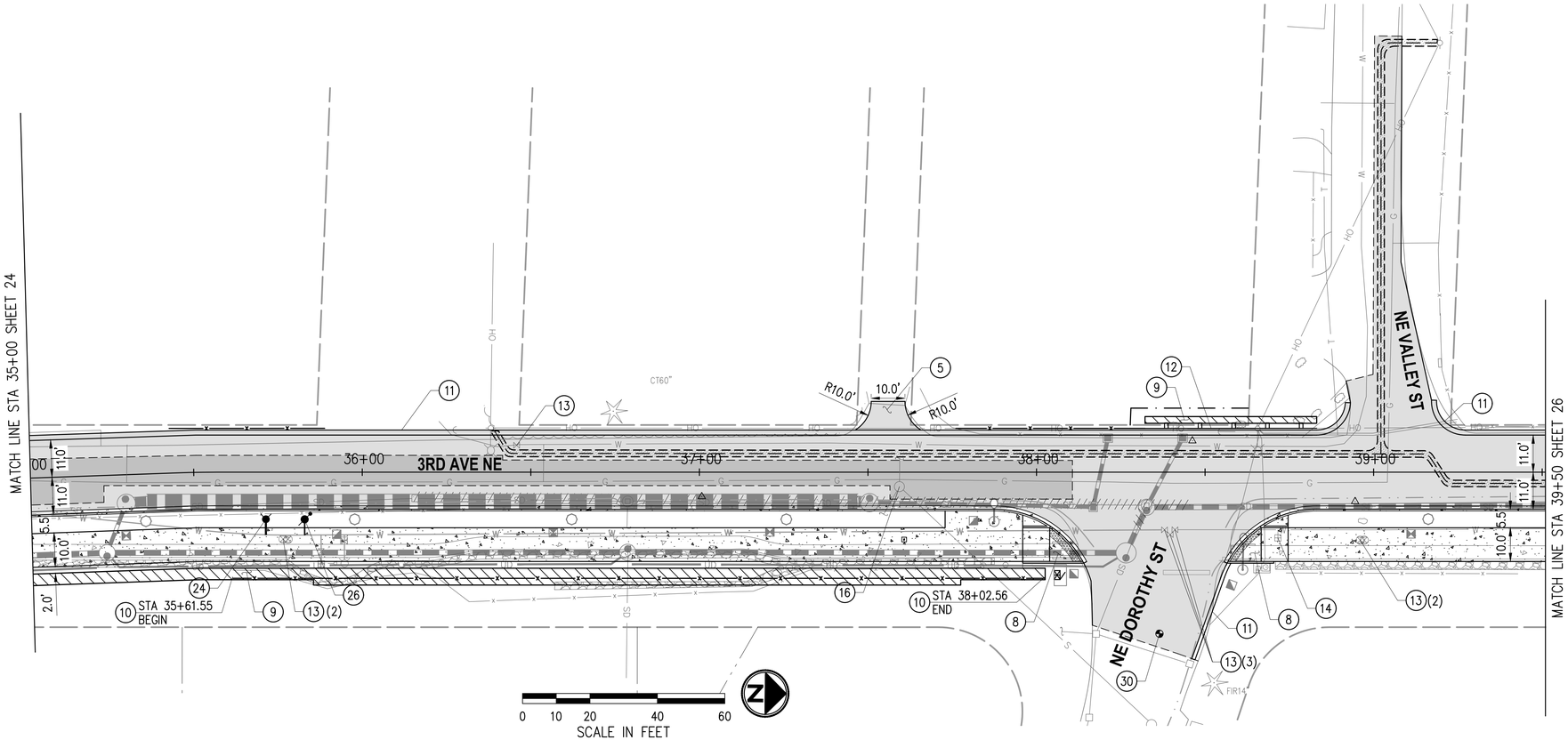
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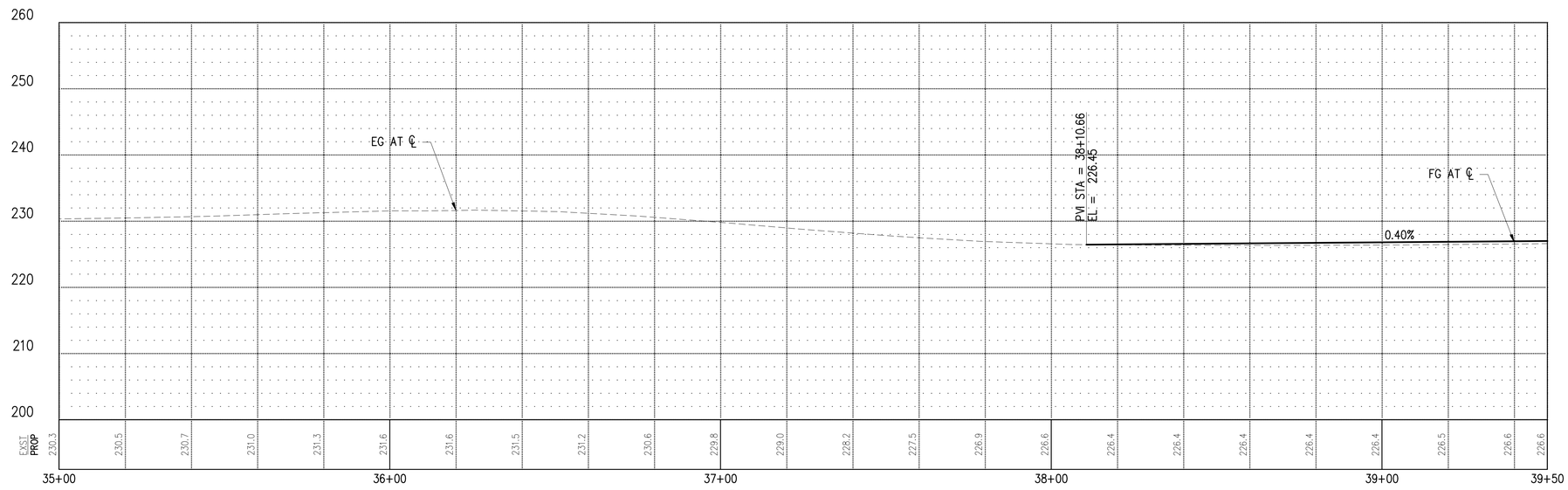
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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
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5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
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8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

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- CEMENT CONC PAVEMENT
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- STORM DRAIN (SEE SHEETS 30–50)
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- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 69–80.

(9) CONSTRUCT RETAINING WALL PER SHEETS 64–67.

(10) INSTALL FENCE.

(11) CONSTRUCT ASPHALT WEDGE CURB.

(12) INSTALL GUARDRAIL.

(13) ADJUST WATER VALVE BOX TO GRADE.

(14) ADJUST WATER METER BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(24) INSTALL FIRE HYDRANT ASSEMBLY PER COD STD DET 2–060–001.

(26) INSTALL 2" AIR AND VACUUM RELEASE ASSEMBLY PER COD STD DET 2–070–003.

(30) REESTABLISH SURVEY MONUMENT WITH CASE AND COVER PER COD STD DETAIL 3–050–014.

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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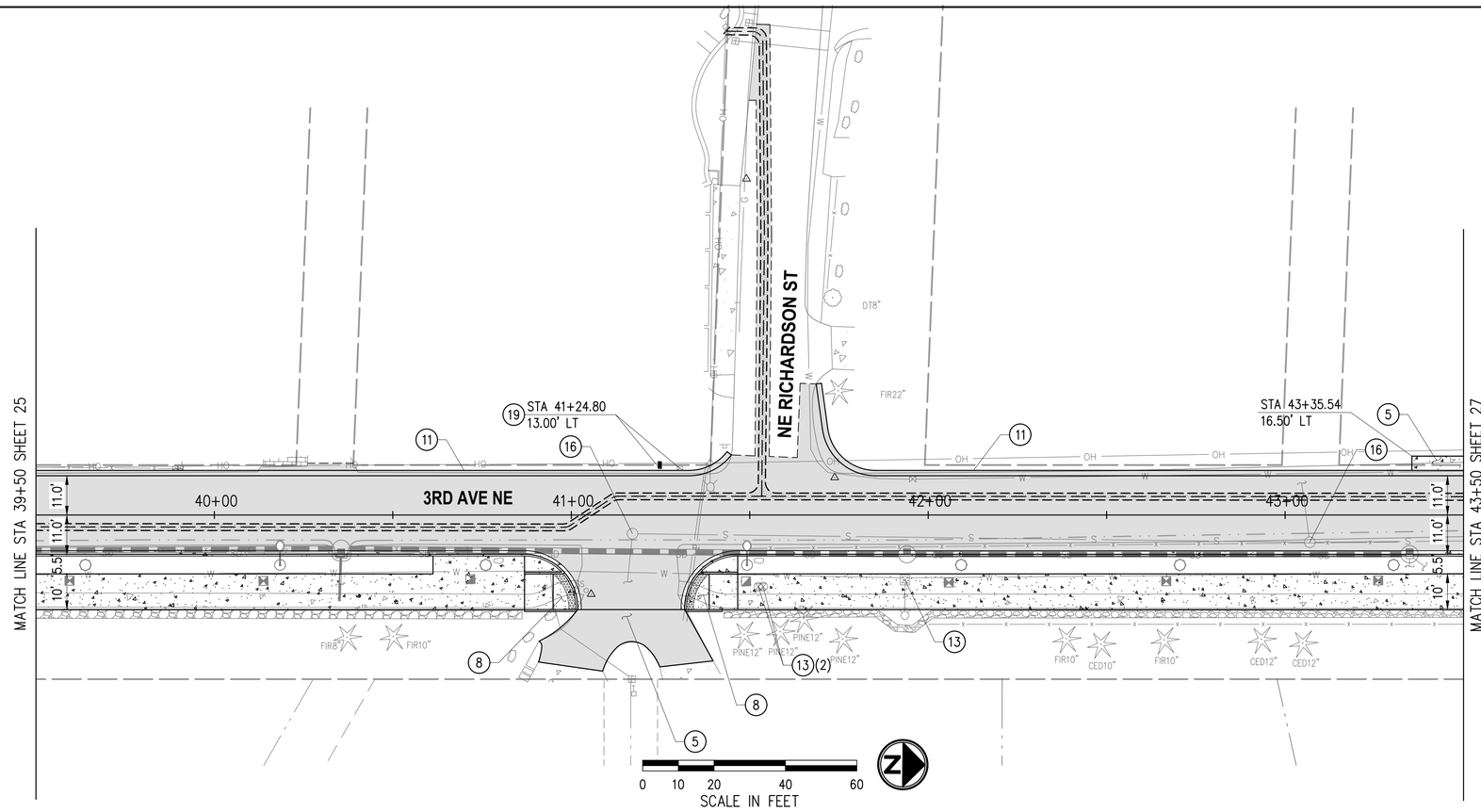
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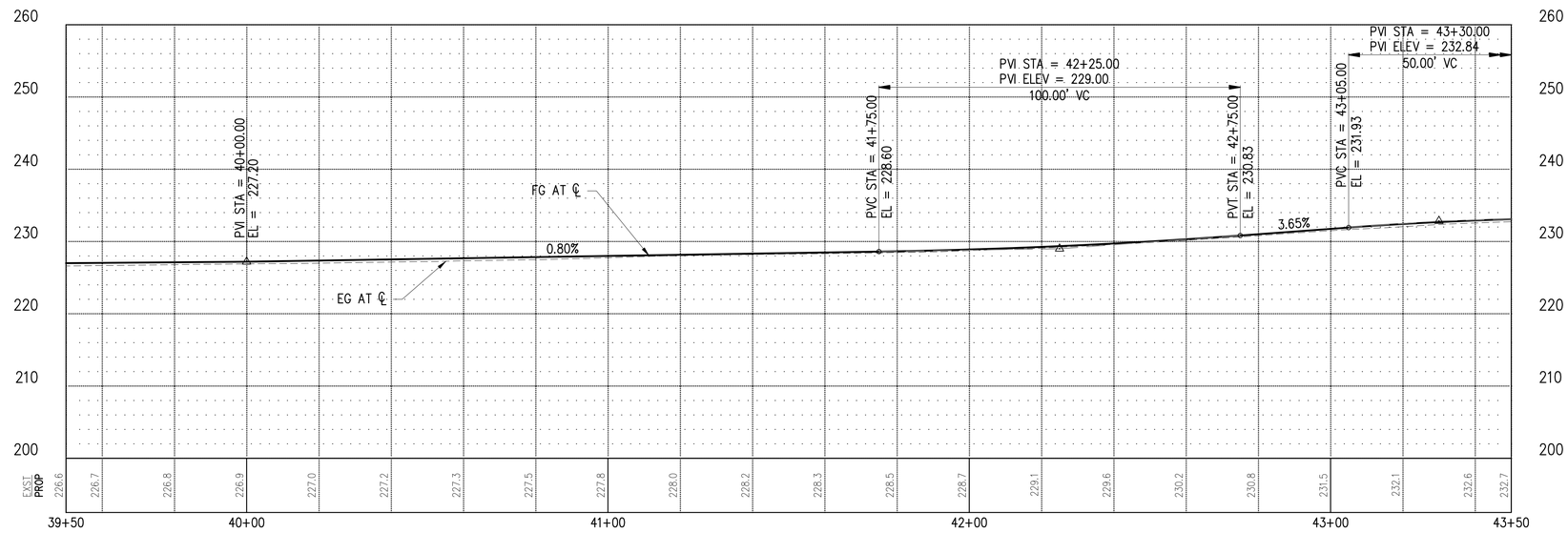
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GENERAL NOTES

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- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
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- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 69–80.

(11) CONSTRUCT ASPHALT WEDGE CURB.

(13) ADJUST WATER VALVE BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(19) RELOCATE MAILBOX PER COD STD DETAIL 3-040-003 AND SHEETS 69–80.

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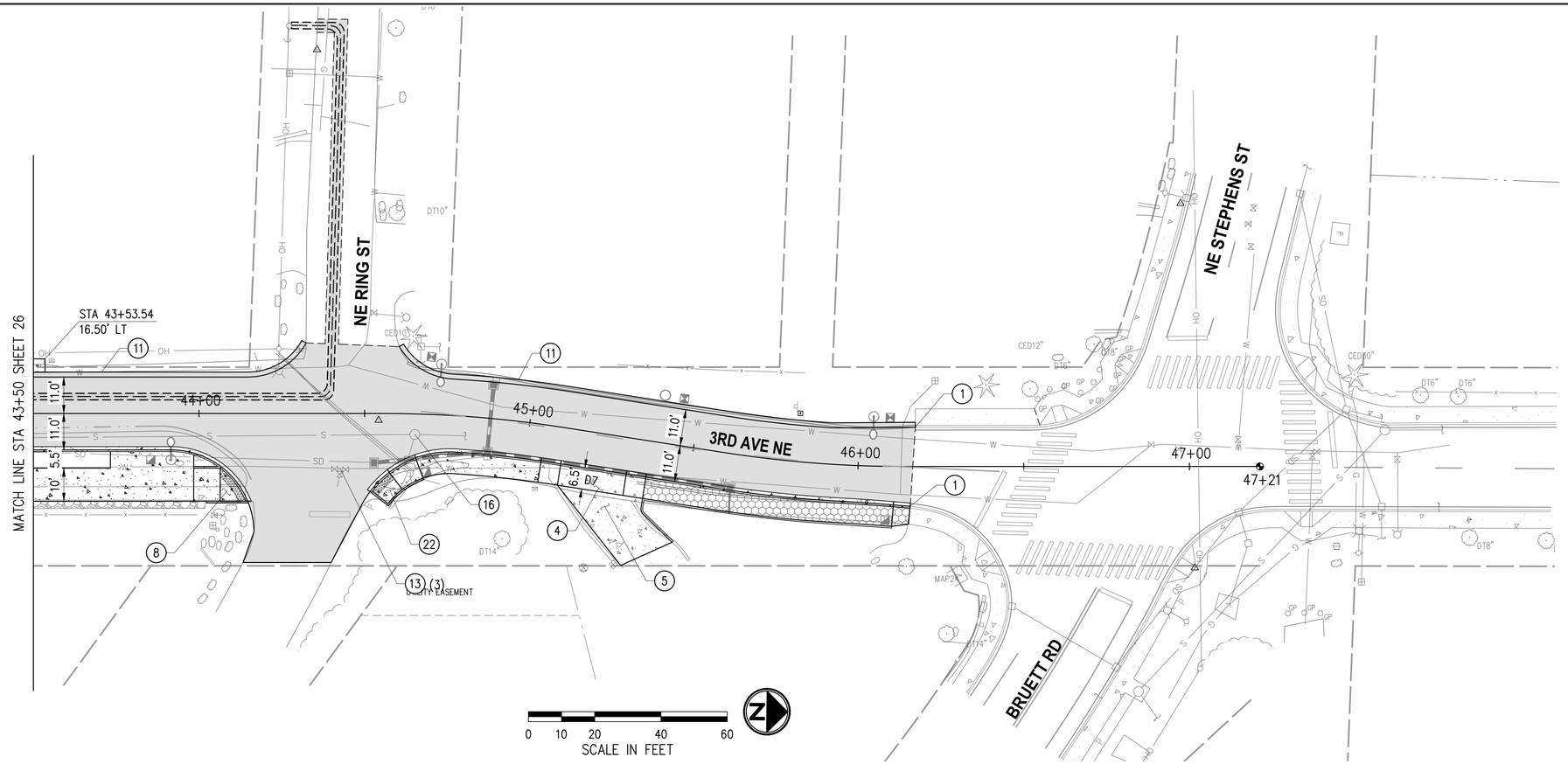
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3RD AVENUE NE RECONSTRUCTION

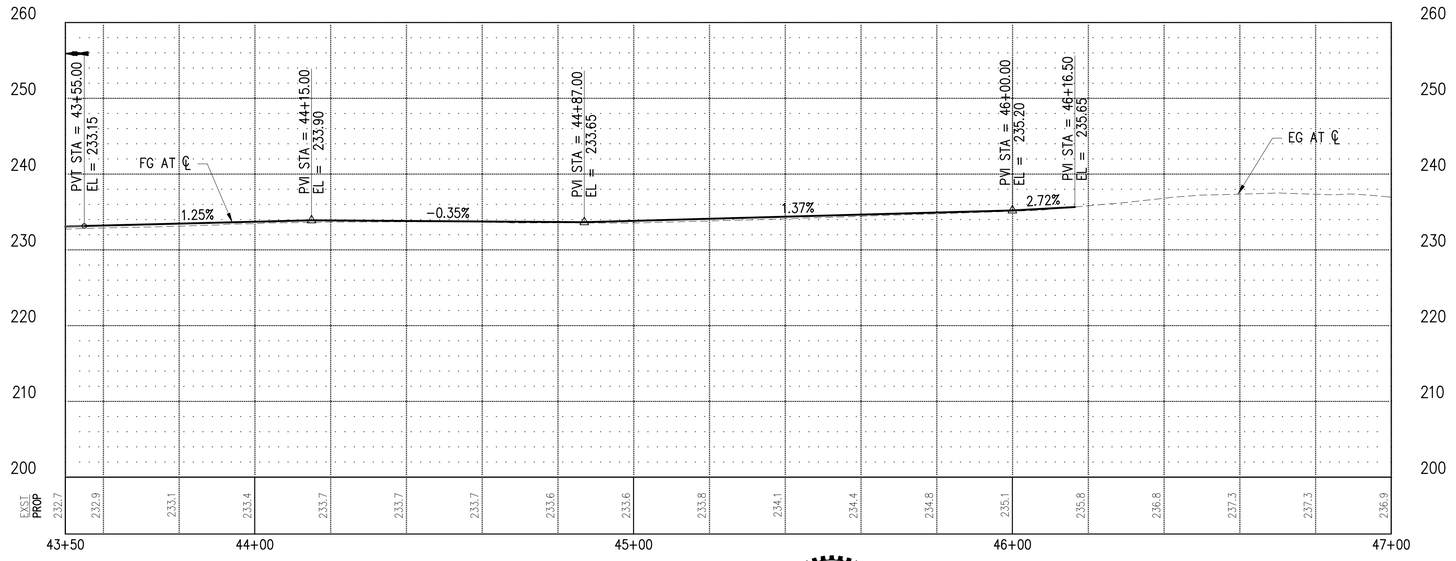
ROADWAY PLAN & PROFILE
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078

SHT 26 OF 129

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, SHEETS 5–8
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(8) CONSTRUCT CEMENT CONC CURB RAMP TYPE SINGLE DIRECTION A PER COD STD DETAIL 3-040-005 AND SHEETS 69–80.

(11) CONSTRUCT ASPHALT WEDGE CURB.

(13) ADJUST WATER VALVE BOX TO GRADE.

(16) ADJUST SEWER MANHOLE TO GRADE.

(22) CONSTRUCT CEMENT CONC CURB RAMP TYPE PARALLEL B PER COD STD DETAIL 3-040-003 AND SHEETS 69–80.

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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JRW	06/2023
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AAE	06/2023
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OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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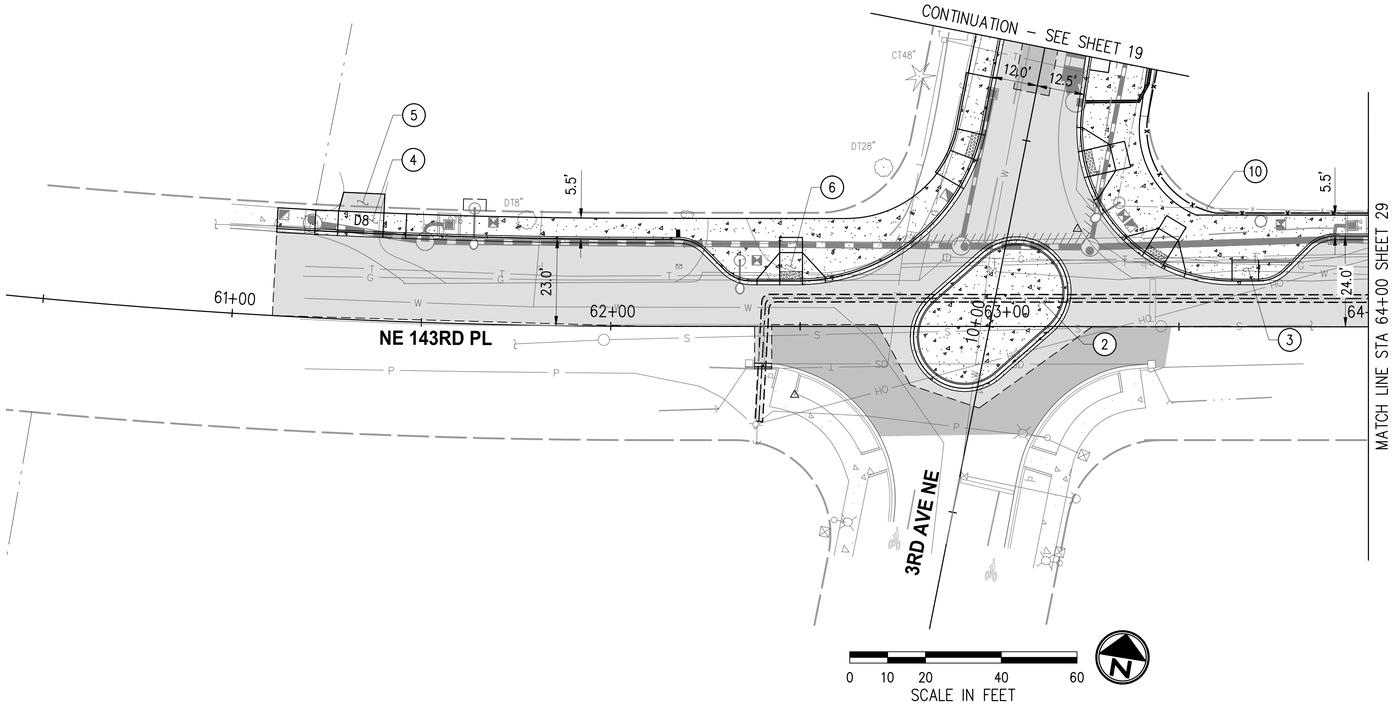
City of Duvall
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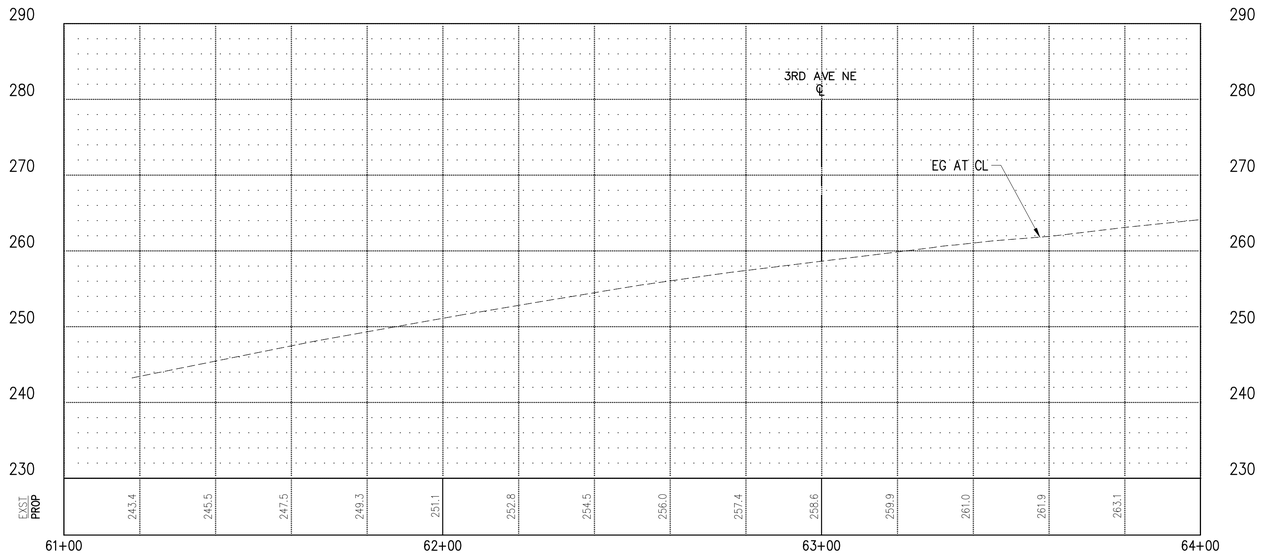
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3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 43+50 TO STA 47+00

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, S
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(2) CONSTRUCT MOUNTABLE MINI ROUNDABOUT. SEE DETAIL SHEET 68.

(3) CONSTRUCT CEMENT CONC BIKE RAMP, SEE SHEETS 69–80.

(4) CONSTRUCT CEMENT CONC DRIVEWAY ENTRANCE PER DETAIL, SHEET 9.

(5) RECONSTRUCT DRIVEWAY.

(6) CONSTRUCT CEMENT CONC CURB RAMP TYPE PERPENDICULAR A PER COD STD DETAIL 3–040–002 AND SHEETS 69–80.

(10) INSTALL FENCE.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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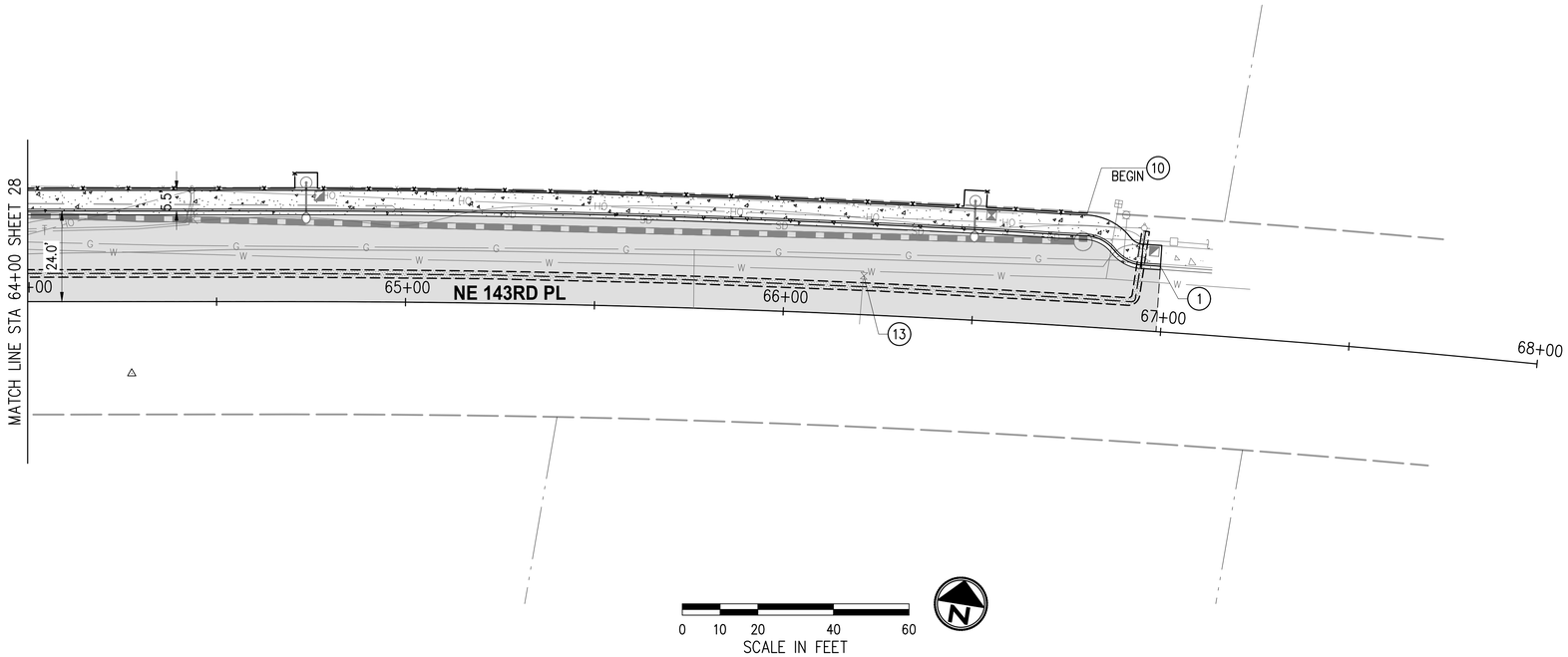
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 60+50 TO STA 64+00

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SHT 28 OF 129

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GENERAL NOTES

1. CONSTRUCT CEMENT CONC. CURB, GUTTER, AND SIDEWALK PER TYPICAL SECTIONS, SHEET 5–8.
2. FOR REMOVALS, SEE SITE PREPARATION AND TESC PLANS, SHEETS 10–17.
3. FOR STORMWATER PLAN AND PROFILES, SEE SHEETS 30–50.
4. FOR IRRIGATION AND LANDSCAPING PLANS AND DETAILS, SEE SHEETS 100–113.
5. FOR URBAN DESIGN PLANS AND DETAILS, SEE SHEET 94–99.
6. FOR ILLUMINATION AND DETAILS, SEE SHEETS 81–93.
7. FOR JOINT UTILITY TRENCH PLANS AND DETAILS, SEE SHEETS 114–117.
8. FOR CHANNELIZATION AND SIGNING PLANS, SEE SHEETS 118–123.

LEGEND

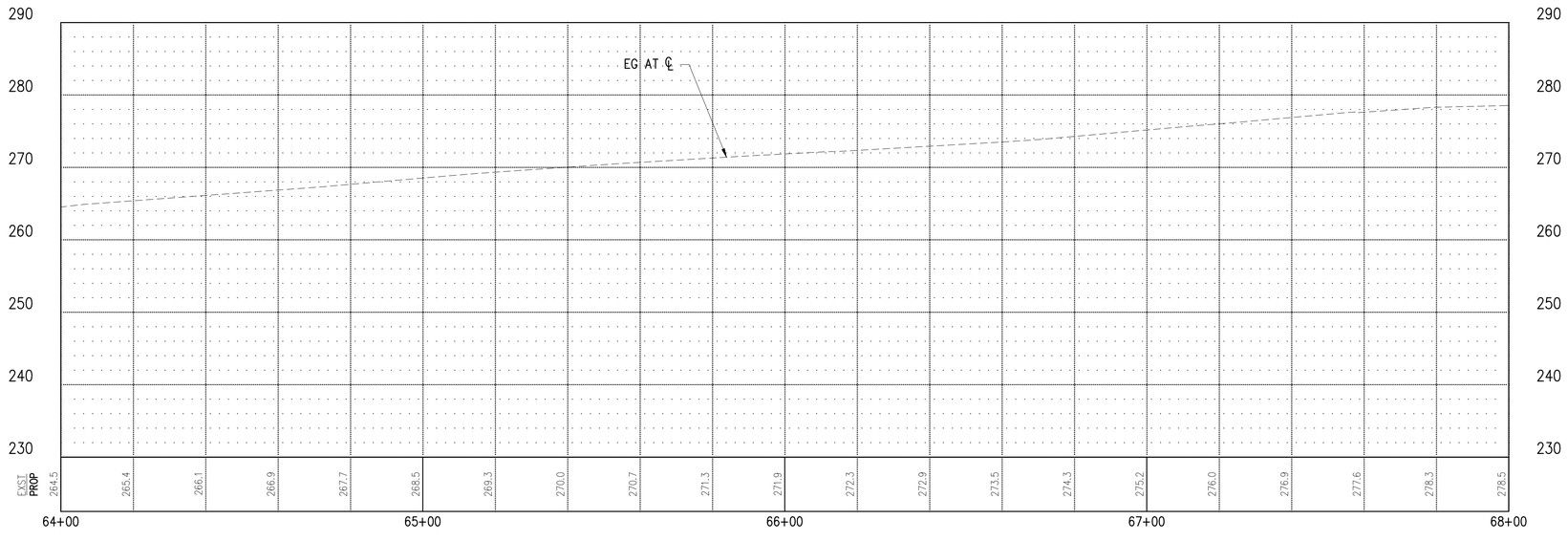
- NEW HMA PAVEMENT SECTION PER TYPICAL SECTIONS, S
- HMA CL 1/2" PG 58H–22 OVERLAY
- CEMENT CONC PAVEMENT
- JOINT UTILITY TRENCH (SEE SHEETS 114–117)
- STORM DRAIN (SEE SHEETS 30–50)
- UD — SIDEWALK FRENCH DRAIN (SEE SHEET 47)
- RETAINING WALL
- PERVIOUS CONCRETE SIDEWALK
- DECORATIVE CONCRETE SIDEWALK

CONSTRUCTION NOTES

(1) MATCH EXISTING.

(10) INSTALL FENCE.

(13) ADJUST WATER VALVE BOX TO GRADE.



NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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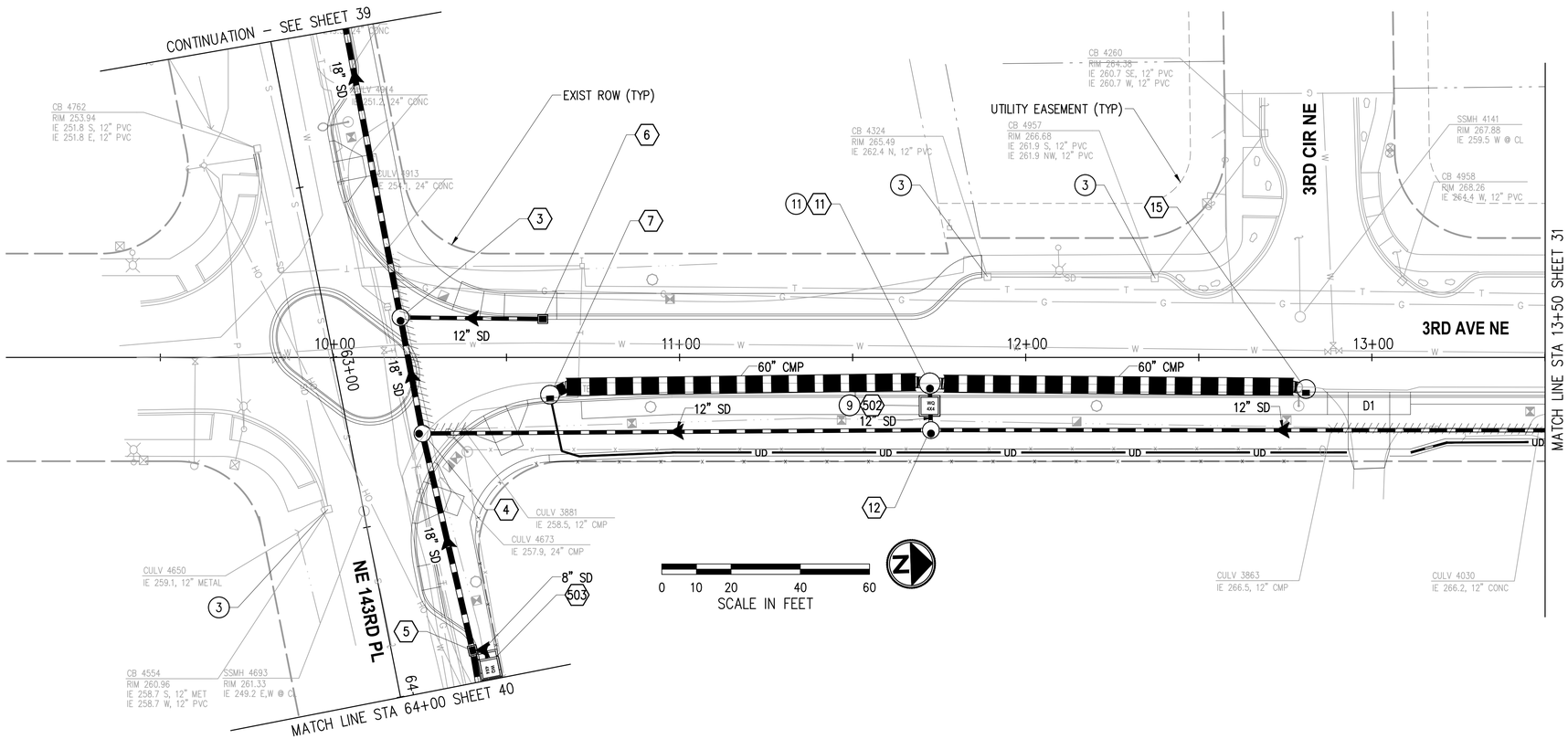
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ROADWAY PLAN & PROFILE
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078

SHT 29 OF 129

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(9) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT. SEE DETAIL, SHEET 48.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 49.

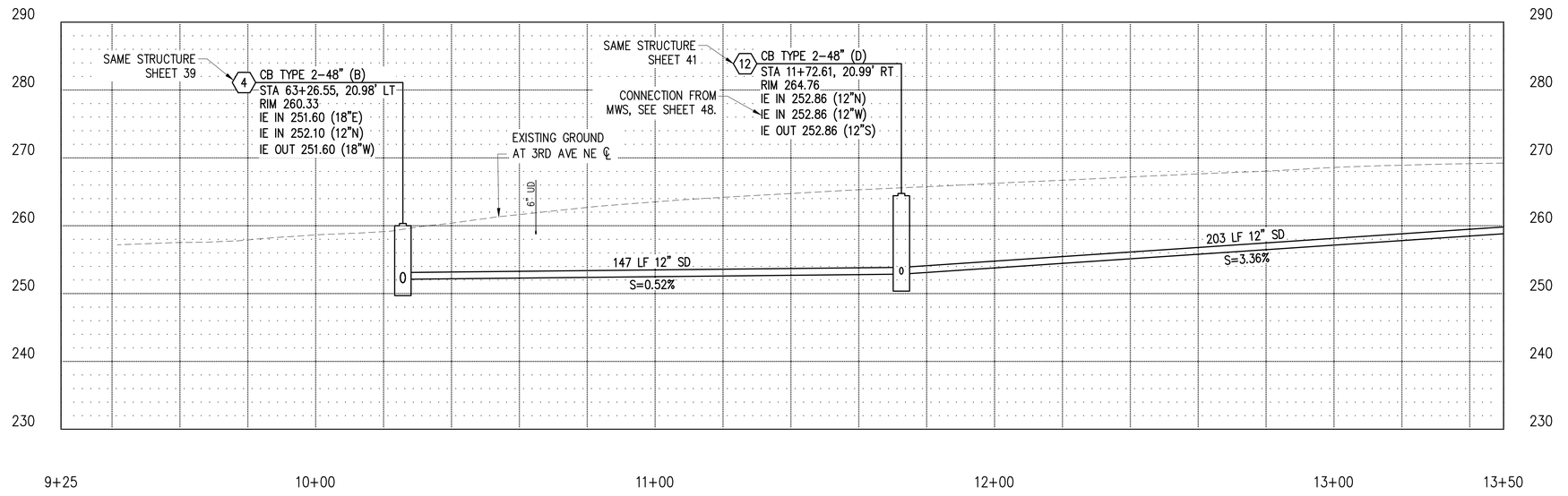
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.



LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 21510 — REGISTERED PROFESSIONAL ENGINEER

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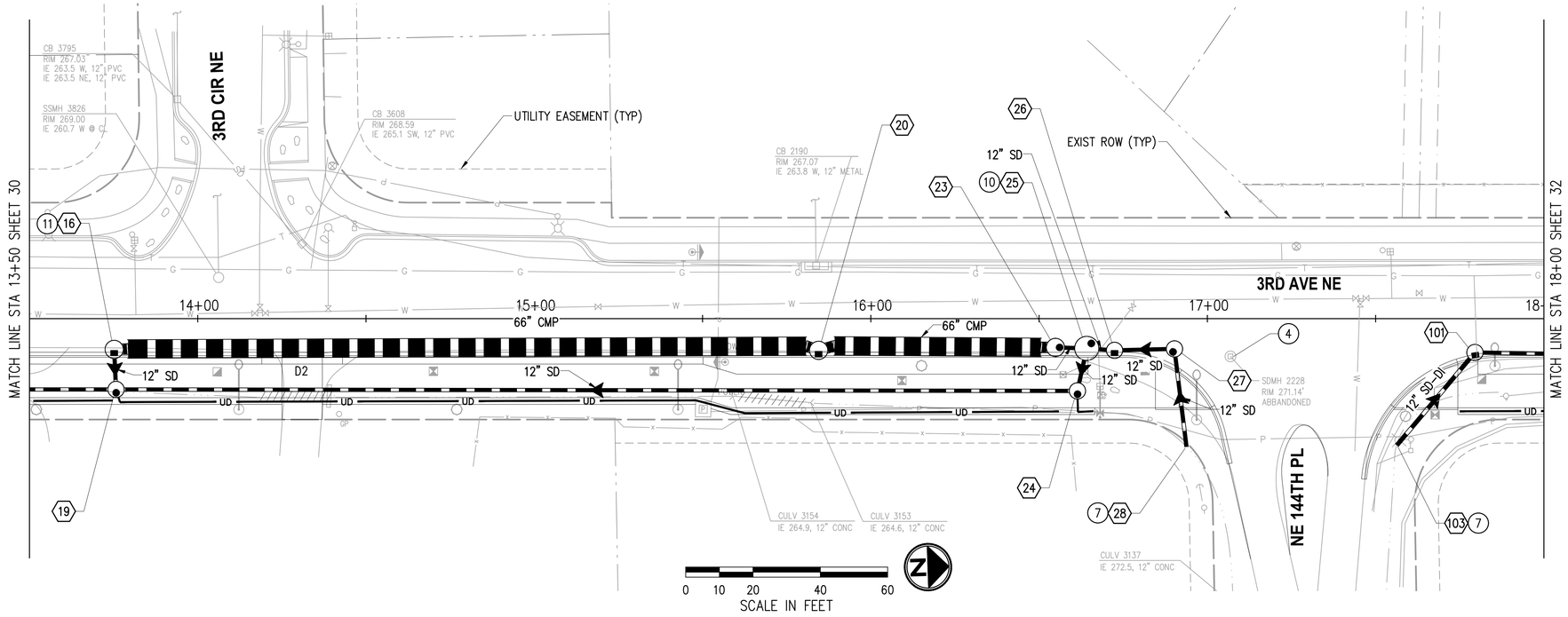
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 9+25 TO STA 13+50

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 49.

(10) INSTALL 72-IN DIAM. TYPE 2 CB WITH FLOW SPLITTER. SEE DETAIL, SHEET 47.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 49.

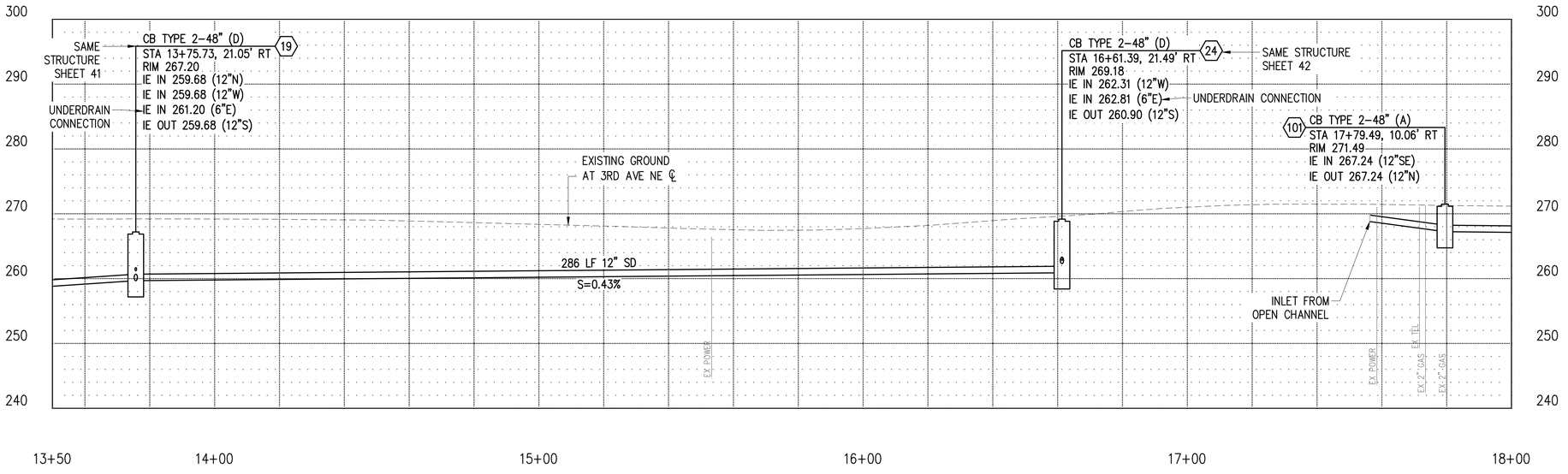
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.



LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- WQ 4X4 — PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UD — UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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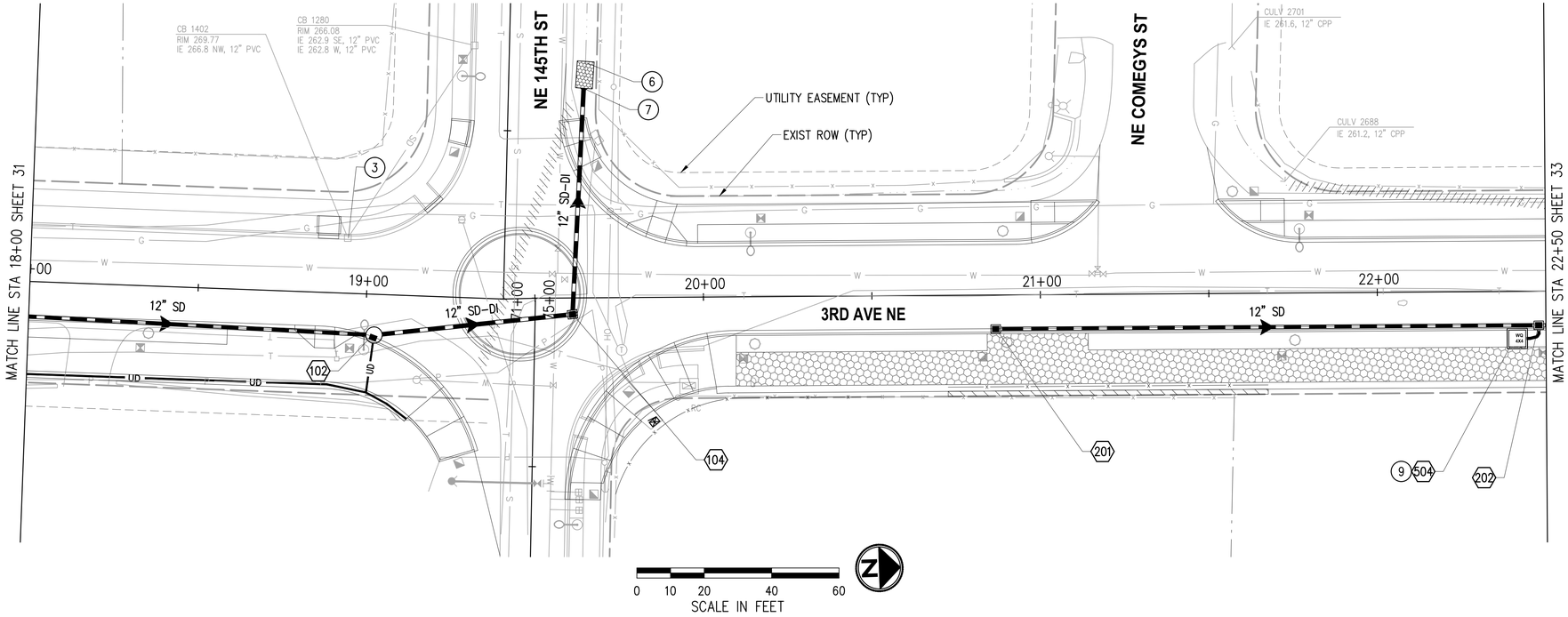
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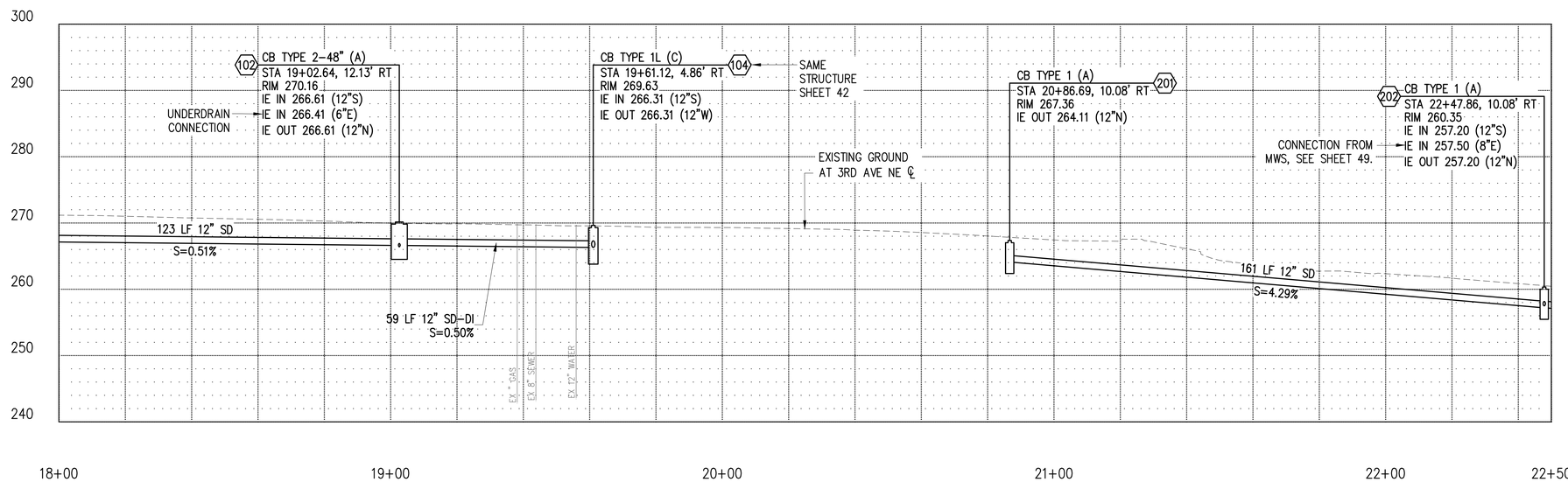
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 13+50 TO STA 18+00

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(6) INSTALL OUTFALL PROTECTION. SEE DETAIL, SHEET 49.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 49.

(9) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT. SEE DETAIL, SHEET 48.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR STATE OF WASHINGTON 25701 REGISTERED PROFESSIONAL ENGINEER

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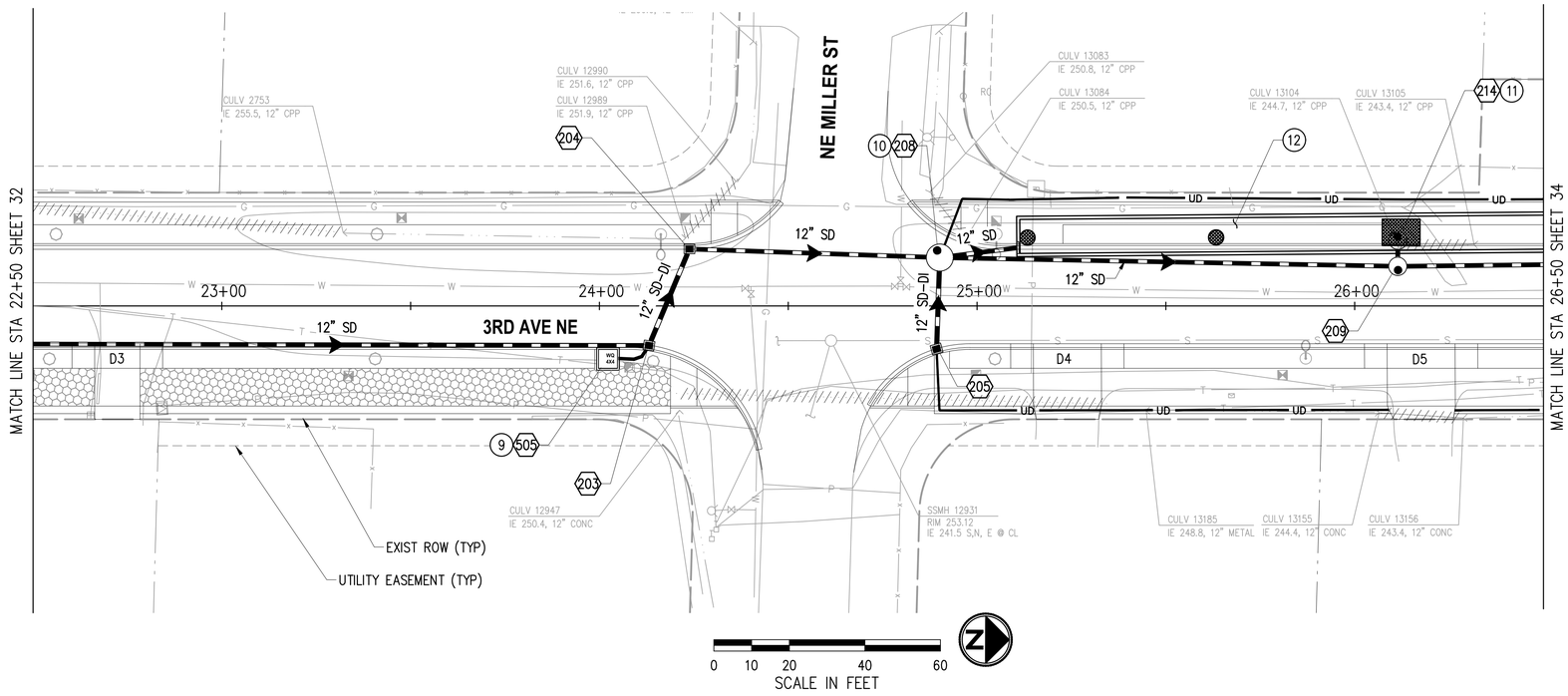
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 18+00 TO STA 22+50

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
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5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(9) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT. SEE DETAIL, SHEET 48.

(10) INSTALL 72-IN DIAM. TYPE 2 CB WITH FLOW SPLITTER. SEE DETAIL, SHEET 47.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 49.

(12) INSTALL DETENTION VAULT WITH ACCESS OPENINGS. SEE DETAIL, SHEET 50.

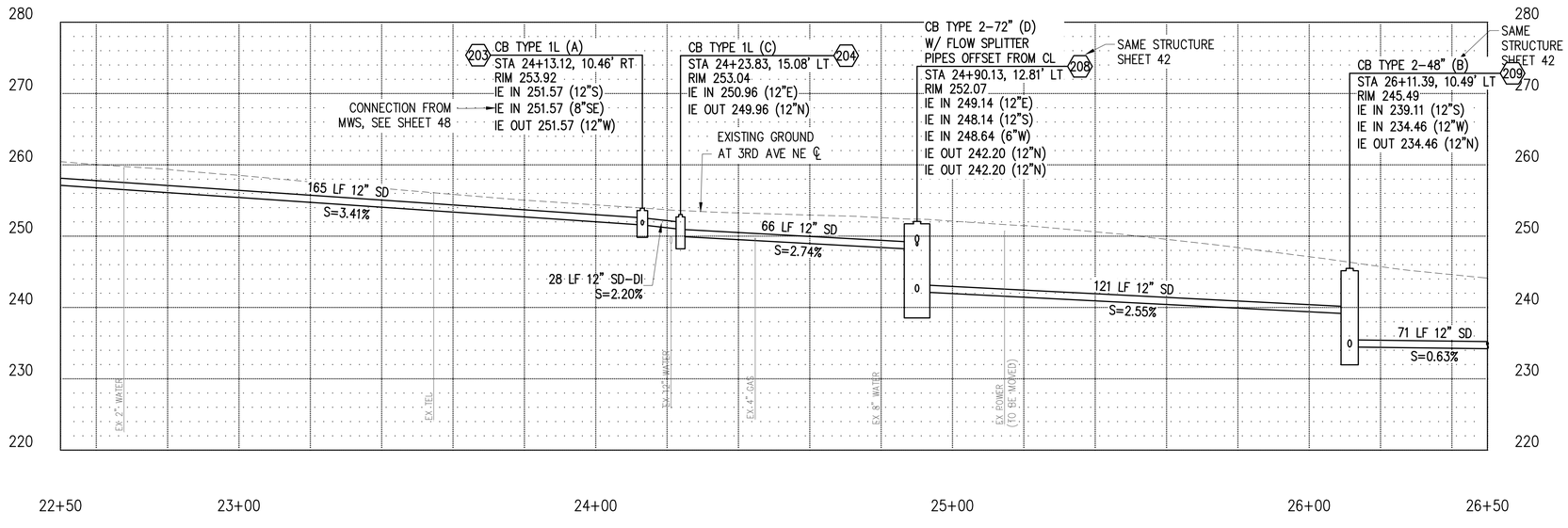
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.



LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

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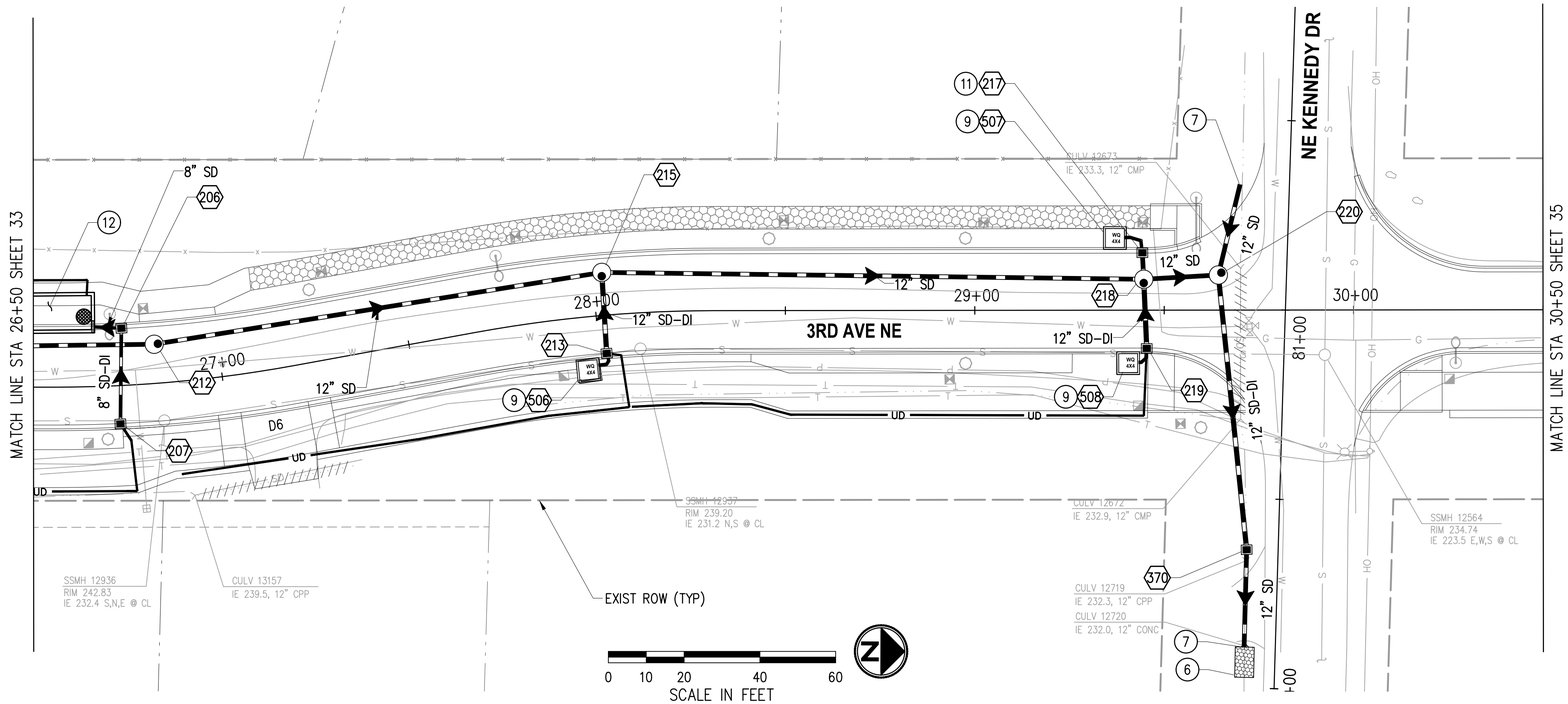
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 22+50 TO STA 26+50

KPG PROJECT No. 21078 | SHT 33 OF 129

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(6) INSTALL OUTFALL PROTECTION. SEE DETAIL, SHEET 49.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 49.

(9) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT. SEE DETAIL, SHEET 48.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 49.

(12) INSTALL DETENTION VAULT WITH ACCESS OPENINGS. SEE DETAIL, SHEET 50.

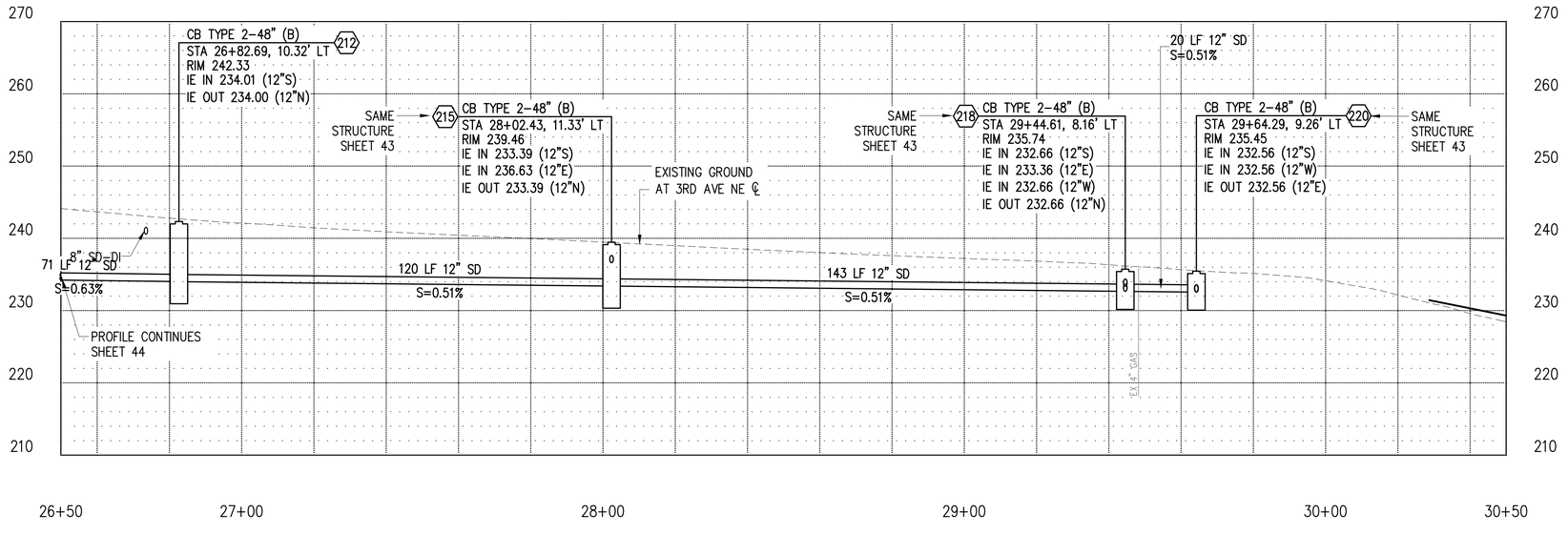
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.



LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 25701 — REGISTERED PROFESSIONAL ENGINEER

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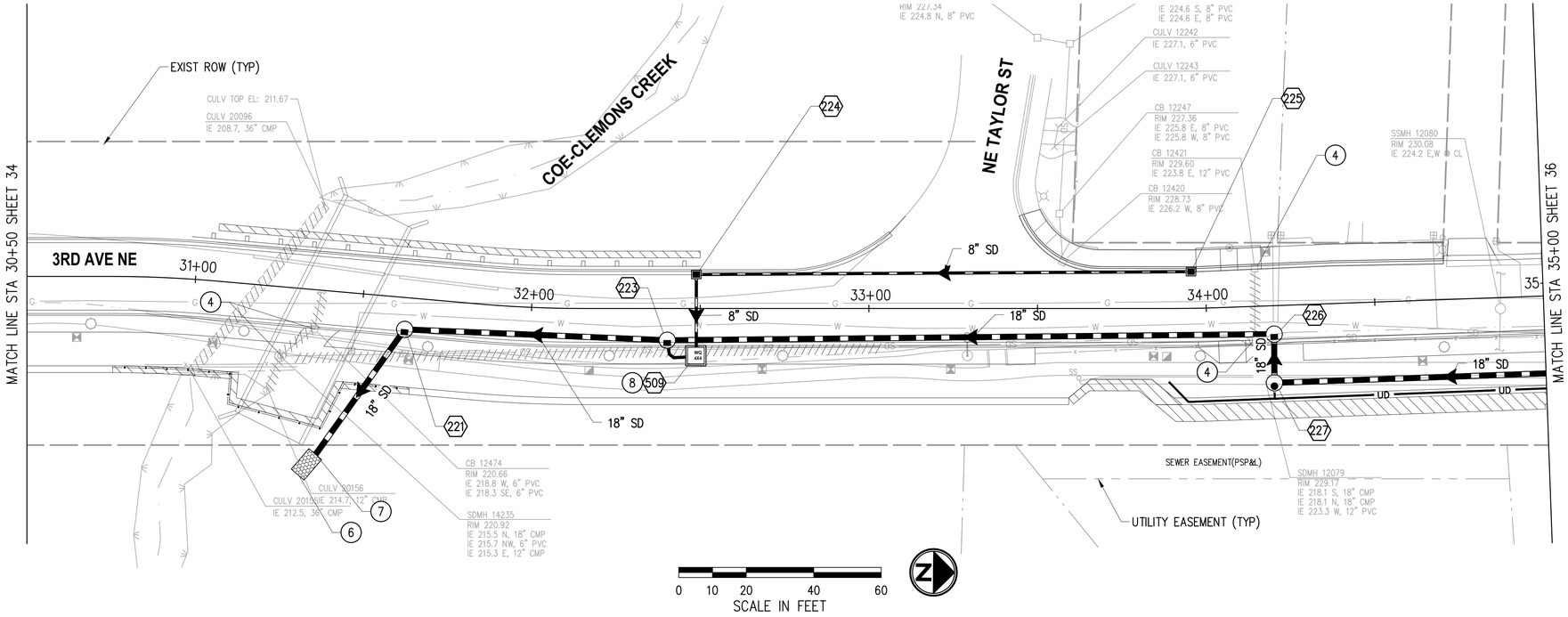
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 26+50 TO STA 30+50

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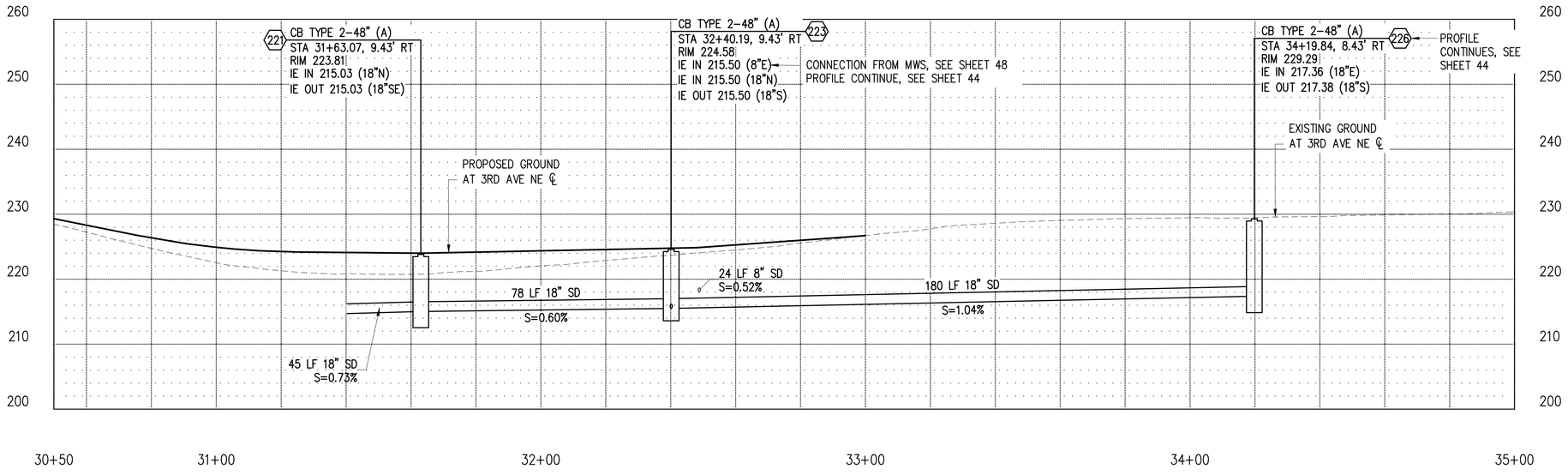
CONSTRUCTION NOTES

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(6) INSTALL OUTFALL PROTECTION. SEE DETAIL, SHEET 49.

(7) INSTALL BEVELED END PIPE SECTION PER COD STD DETAIL 3-020-001 AND DEBRIS BARRIER. SEE DETAIL, SHEET 49.

(8) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT WITH INTERNAL BYPASS. SEE DETAIL, SHEET 48.



LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT (WQ 4X4)
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE (UD)

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR STATE OF WASHINGTON 35703 REGISTERED PROFESSIONAL ENGINEER

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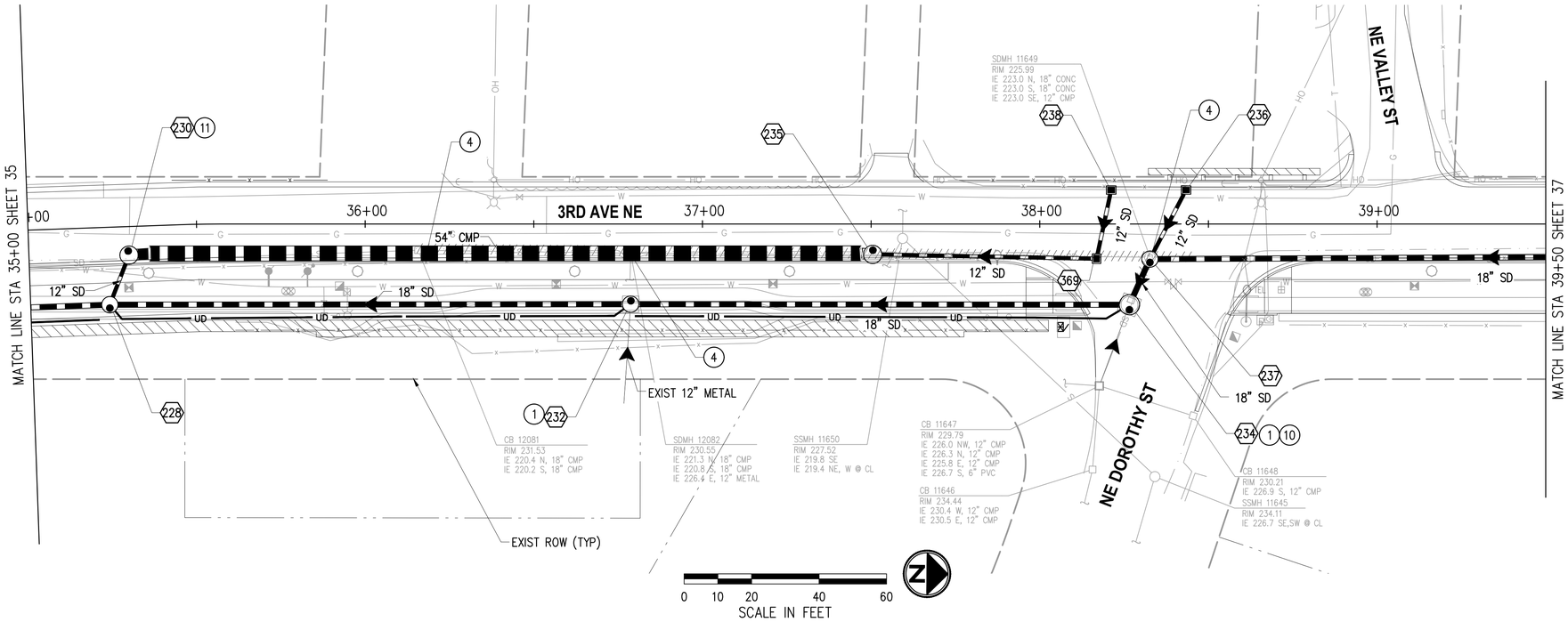
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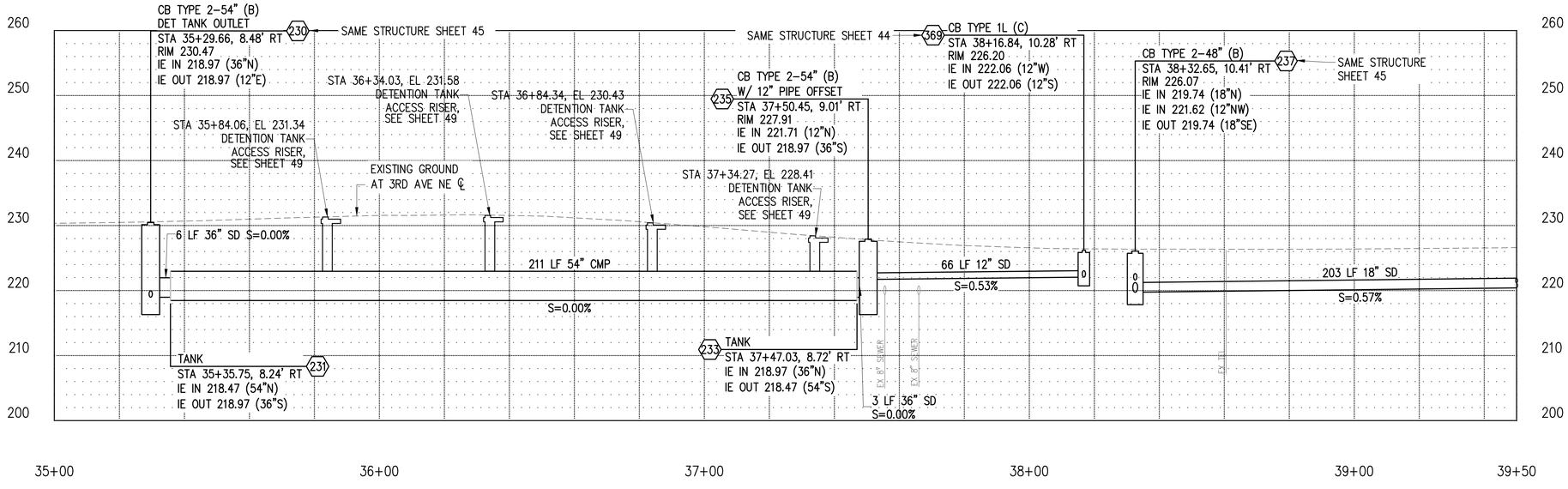
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 30+50 TO STA 35+00

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GENERAL NOTES

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CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(10) INSTALL 72–IN DIAM. TYPE 2 CB WITH FLOW SPLITTER. SEE DETAIL, SHEET 47.

(11) INSTALL DETENTION FACILITY OUTLET STRUCTURE. SEE DETAIL, SHEET 49.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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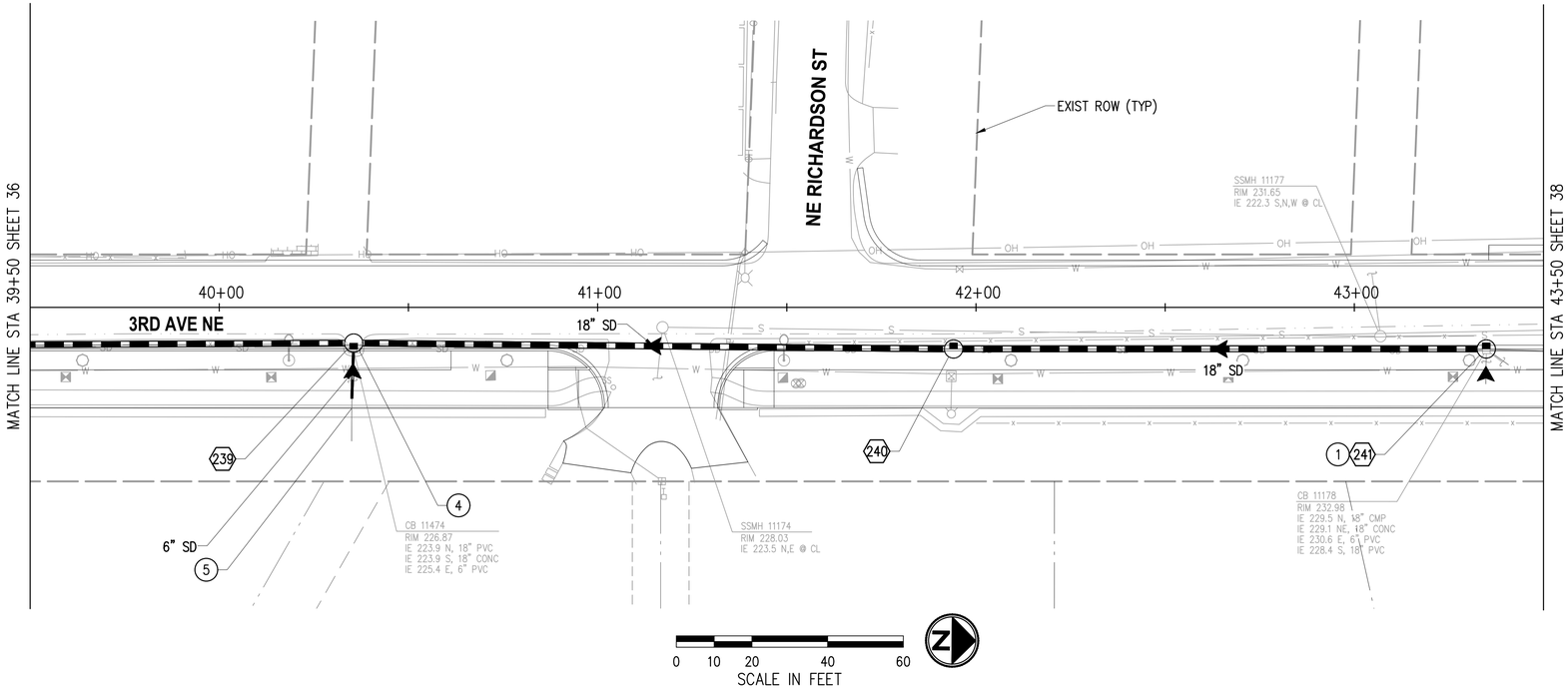
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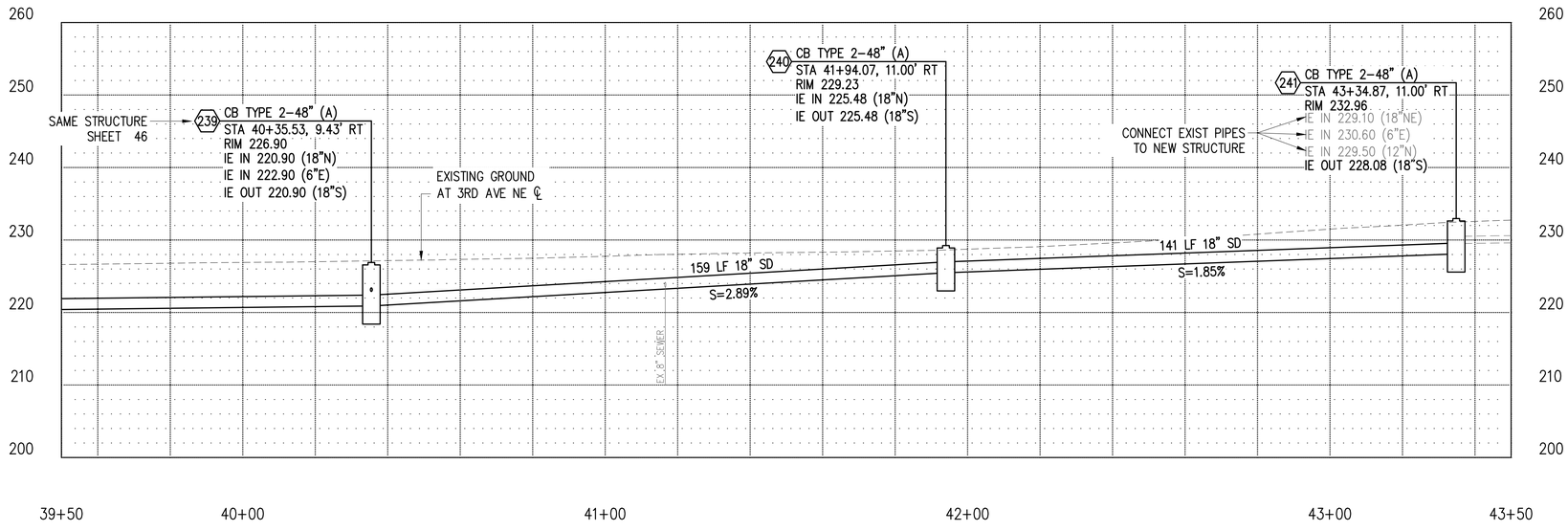
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 35+00 TO STA 39+50

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GENERAL NOTES

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CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(5) CONNECT NEW PIPE TO EXISTING PIPE.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- # STORM DRAINAGE STRUCTURE ID NUMBER
- WQ 4X4 PROPRIETARY WATER QUALITY FILTER UNIT
- PERVIOUS CEMENT CONC. SIDEWALK
- UD UNDERDRAIN PIPE

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR STATE OF WASHINGTON 35703 REGISTERED PROFESSIONAL ENGINEER

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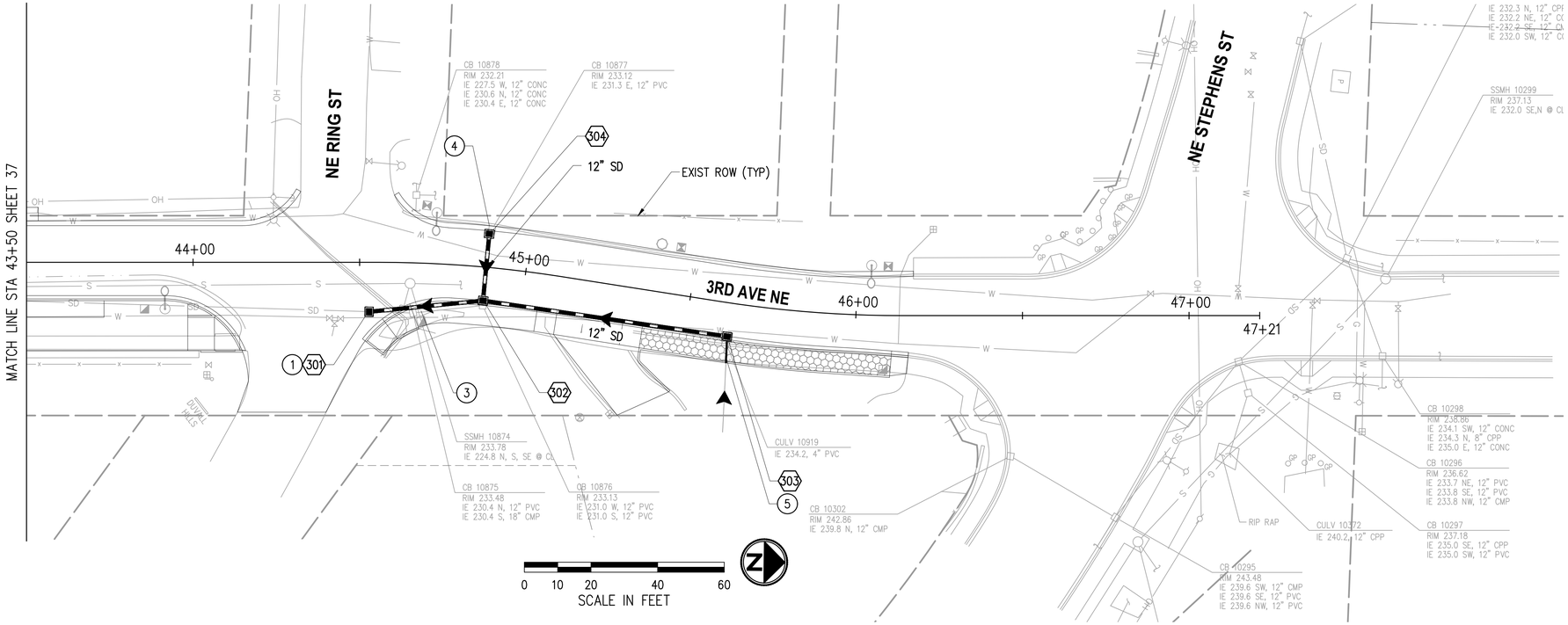
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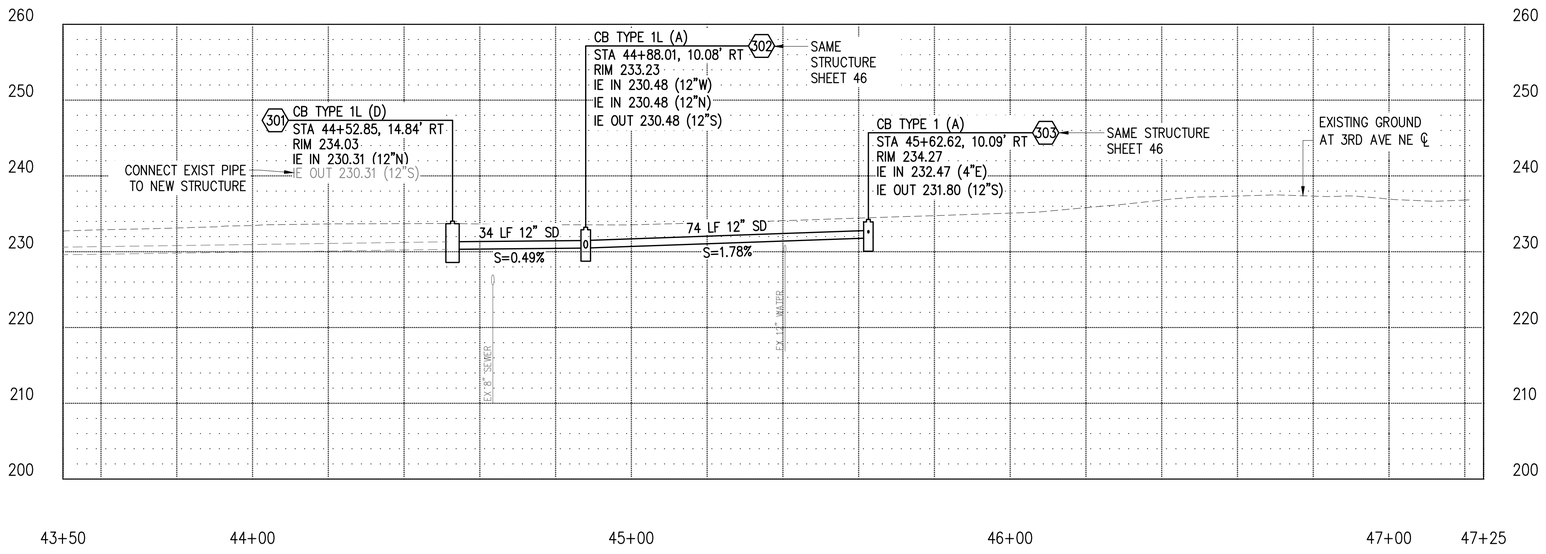
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 39+50 TO STA 43+50

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GENERAL NOTES

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5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(3) ADJUST EXISTING STORM DRAIN STRUCTURE TO GRADE.

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(5) CONNECT NEW PIPE TO EXISTING PIPE.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT (WQ 4X4)
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE (UD)

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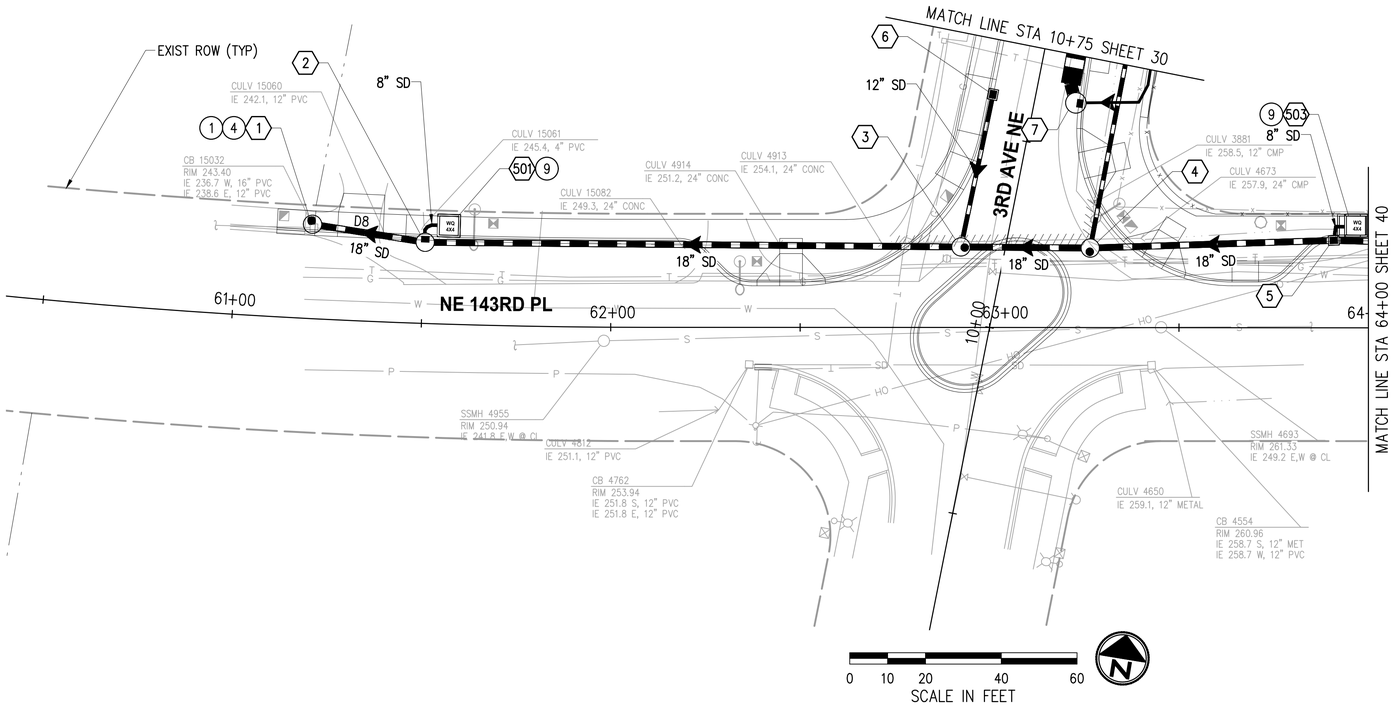
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

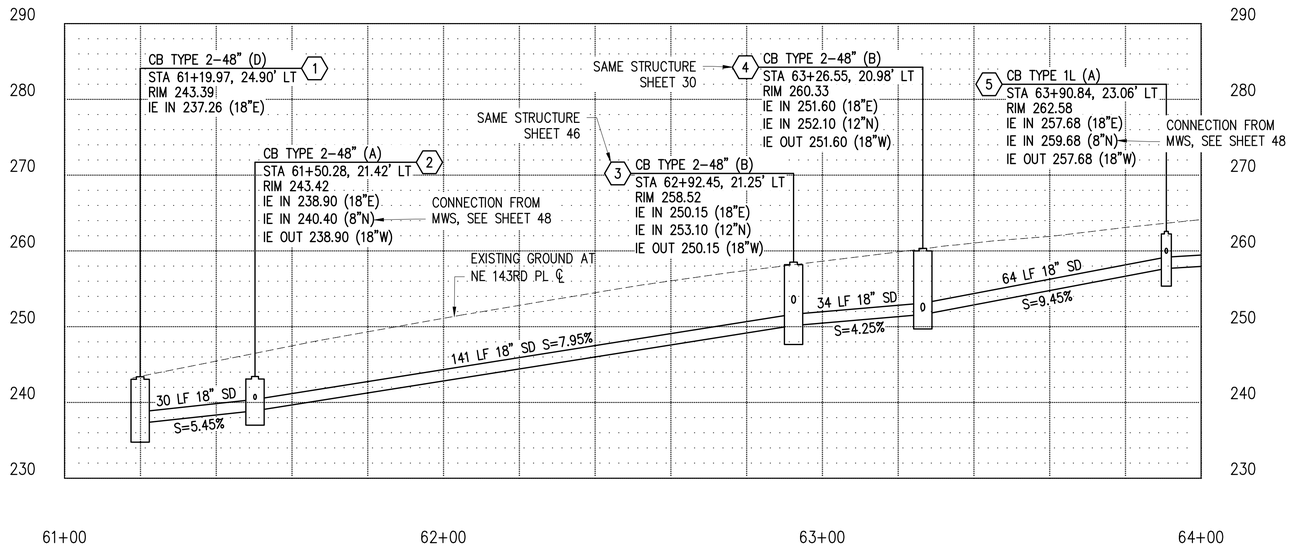
STORMWATER PLAN & PROFILE
STA 43+50 TO STA 47+20

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SHT 38 OF 129

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5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

(4) REMOVE OR ABANDON EXISTING DRAINAGE STRUCTURE.

(8) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT WITH INTERNAL BYPASS. SEE DETAIL, SHEET 48.

(9) INSTALL 4'X4' MODULAR WETLAND WATER QUALITY UNIT. SEE DETAIL, SHEET 48.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

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(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
- STORM PIPE WITH DIRECTION OF FLOW
- REMOVE/ABANDON EXISTING PIPE
- STORM DRAINAGE STRUCTURE ID NUMBER
- PROPRIETARY WATER QUALITY FILTER UNIT (WQ 4X4)
- PERVIOUS CEMENT CONC. SIDEWALK
- UNDERDRAIN PIPE (UD)

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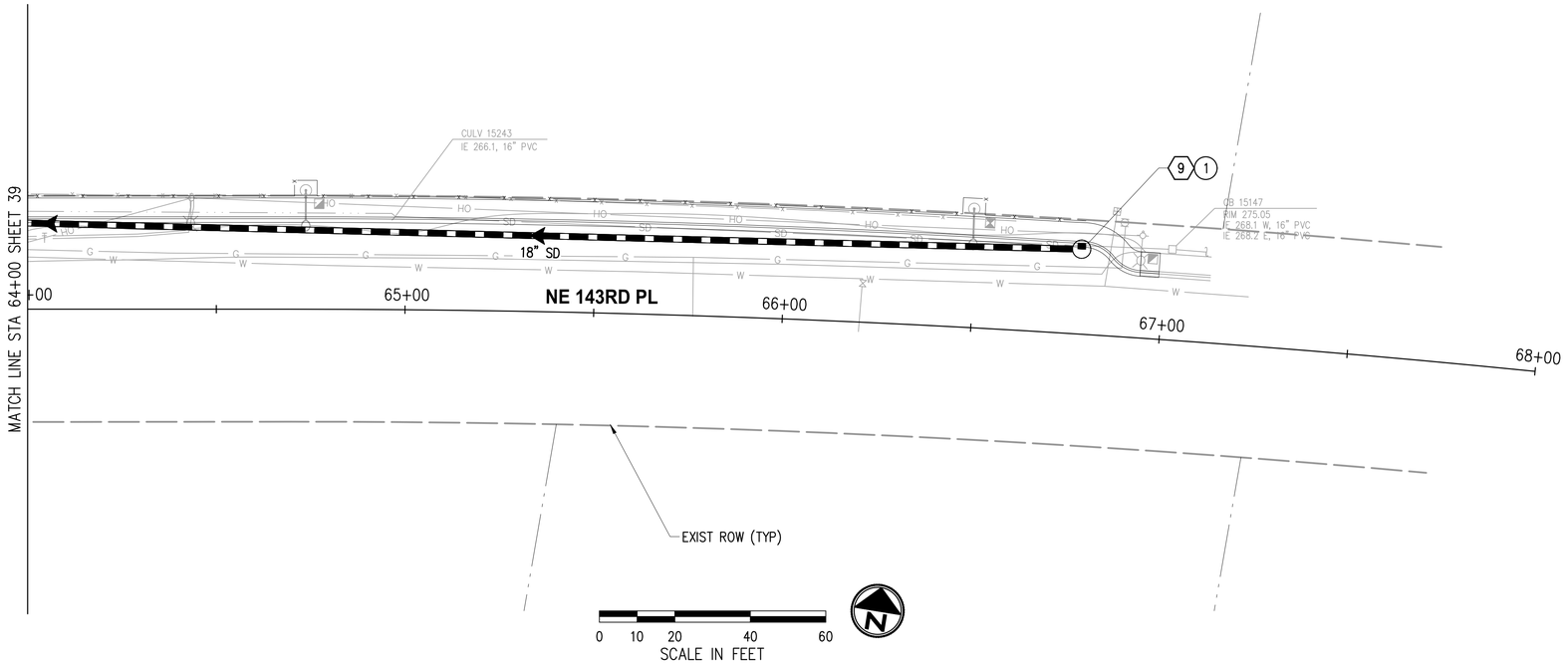
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STORMWATER PLAN & PROFILE
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CONSTRUCTION NOTES

(1) CONNECT EXISTING STORM DRAIN PIPE TO NEW STRUCTURE.

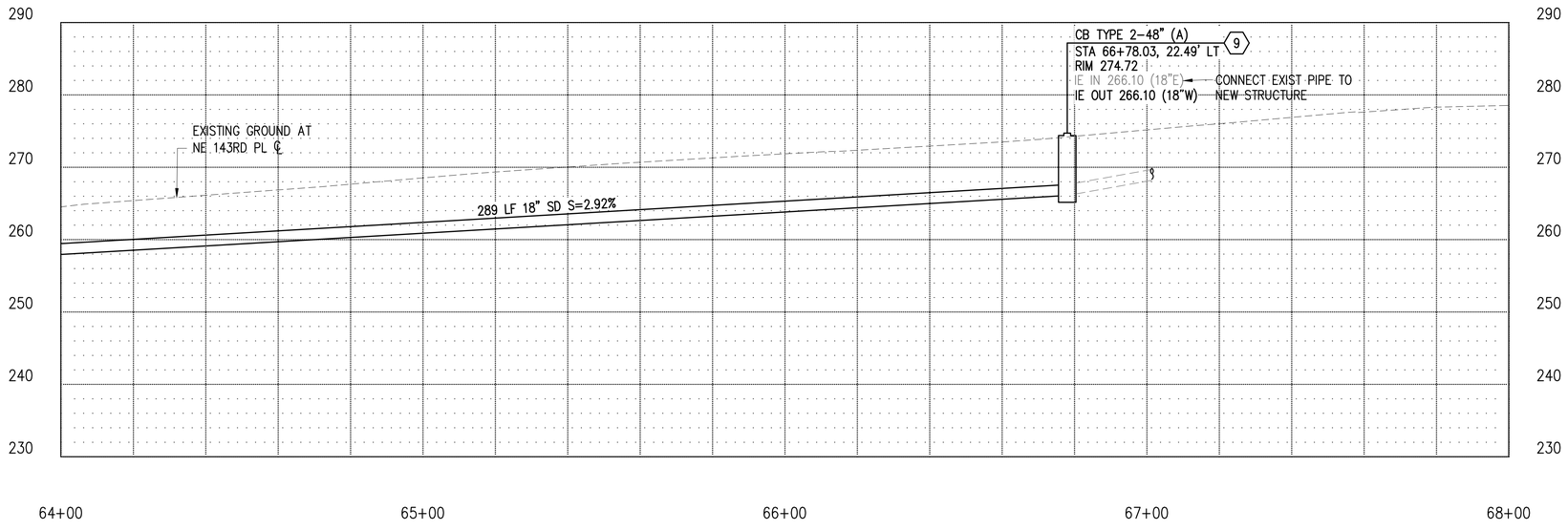
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LEGEND

- CONC INLET OR CATCH BASIN TYPE 1
- CATCH BASIN TYPE 2
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- STORM DRAINAGE STRUCTURE ID NUMBER
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- UNDERDRAIN PIPE (UD)

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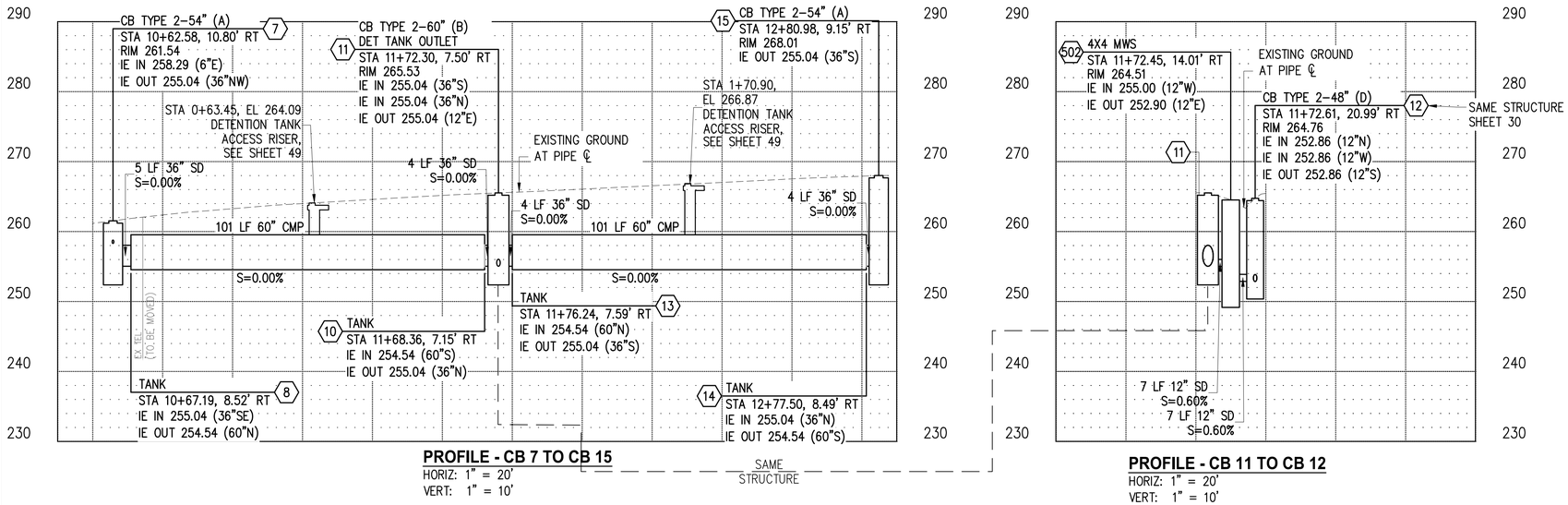
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STORMWATER PLAN & PROFILE
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078 | SHT 40 OF 129

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PROFILE - CB 7 TO CB 15
HORIZ: 1" = 20'
VERT: 1" = 10'

SAME STRUCTURE

PROFILE - CB 11 TO CB 12
HORIZ: 1" = 20'
VERT: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
3. STATION/OFFSET CALLOUTS AND RIM ELEVATIONS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
4. TYPICAL TRENCH AND BACKFILL FOR STORM DRAIN PIPE INSTALLATION SHALL BE PER COD STD DETAIL 5-010-007.
5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

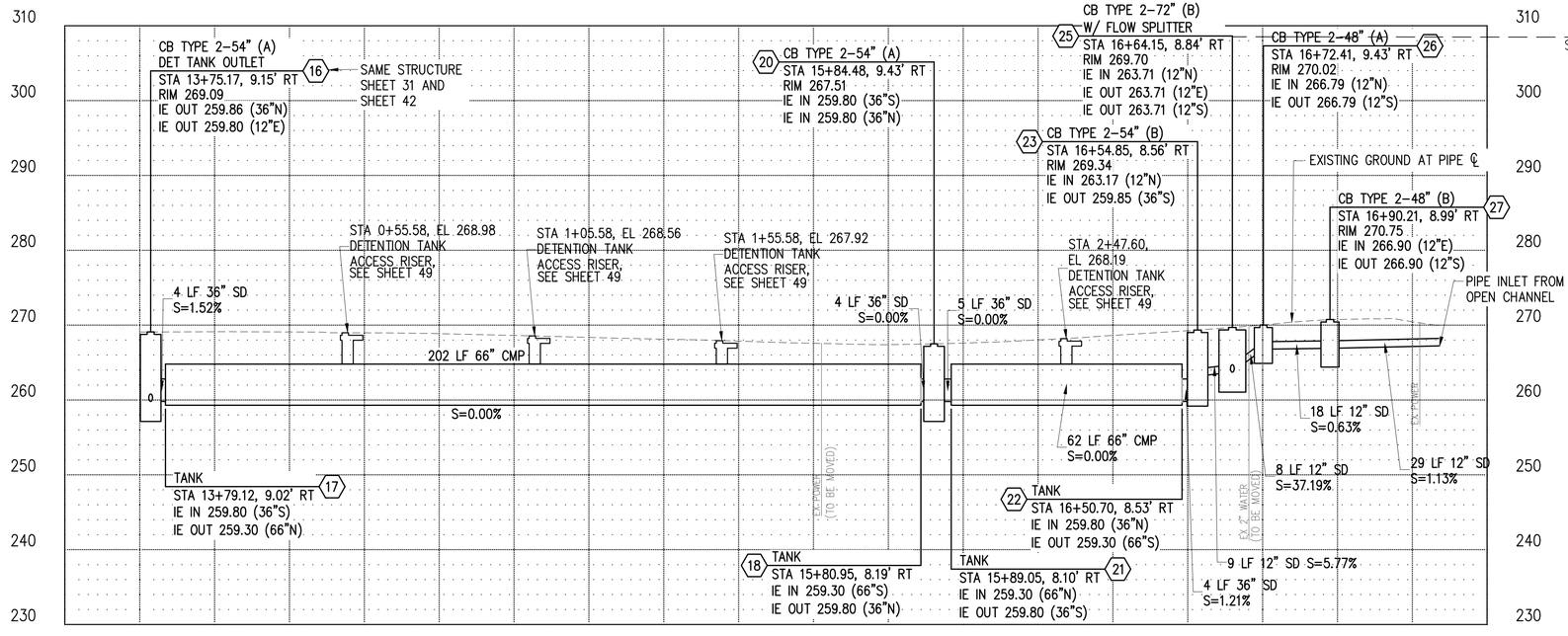
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

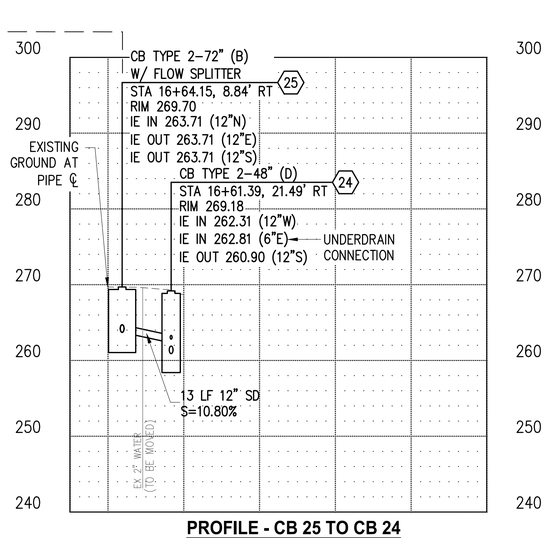
(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.



PROFILE - CB 16 TO CB 27
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 25 TO CB 24
HORIZ: 1" = 20'
VERT: 1" = 10'

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Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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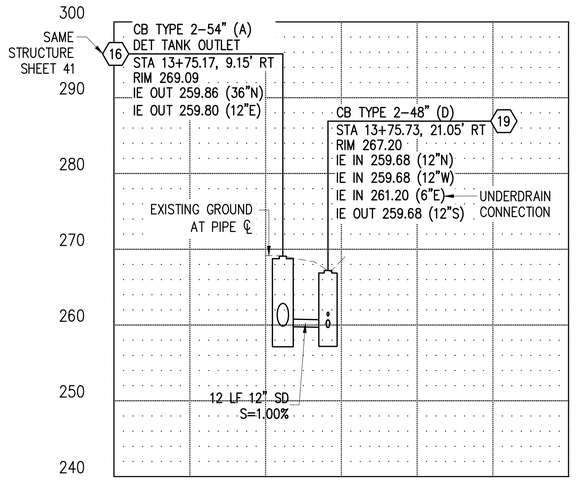
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

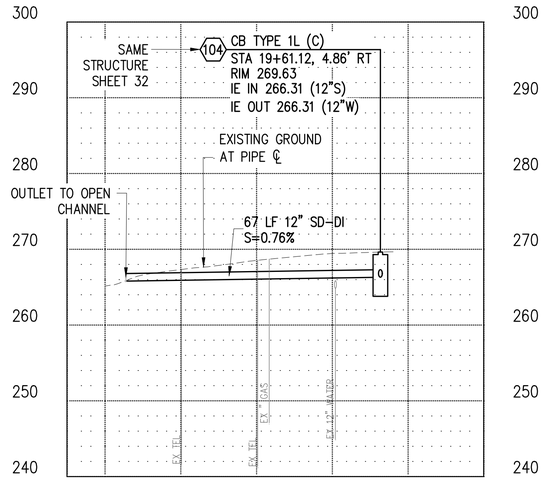
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

KPG PROJECT No. 21078

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PROFILE - CB 16 TO CB 19
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 104
HORIZ: 1" = 20'
VERT: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3-020-003
   b. TYPEL 1L PER COD STD DETAIL 3-020-004
   c. TYPE 2 PER COD STD DETAIL 3-020-005
   d. CONCRETE INLET PER COD STD DETAIL 3-020-012
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5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

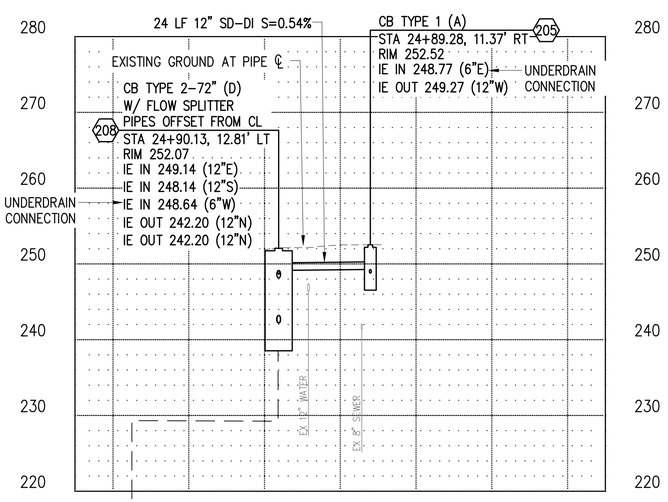
PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

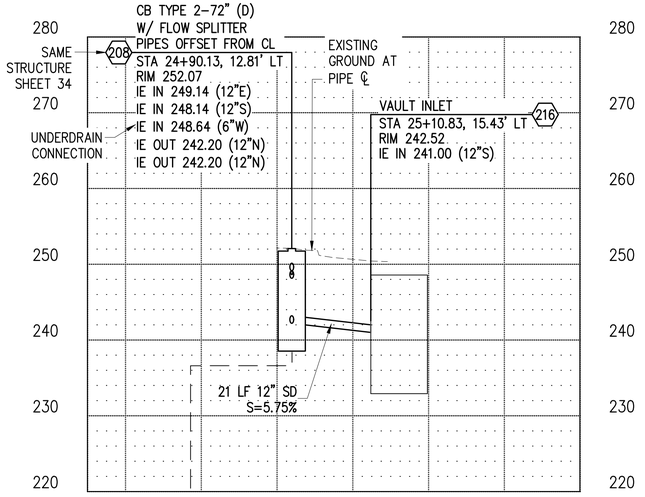
(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

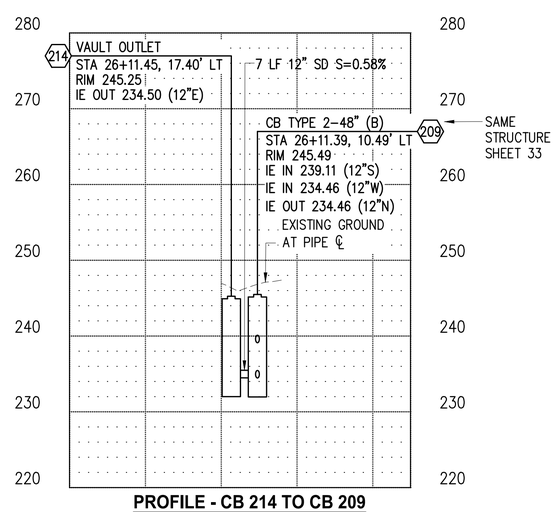


PROFILE - CB 208 TO CB 205
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 208 TO VAULT
HORIZ: 1" = 20'
VERT: 1" = 10'

SAME STRUCTURE



PROFILE - CB 214 TO CB 209
HORIZ: 1" = 20'
VERT: 1" = 10'

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 21703 — REGISTERED PROFESSIONAL ENGINEER

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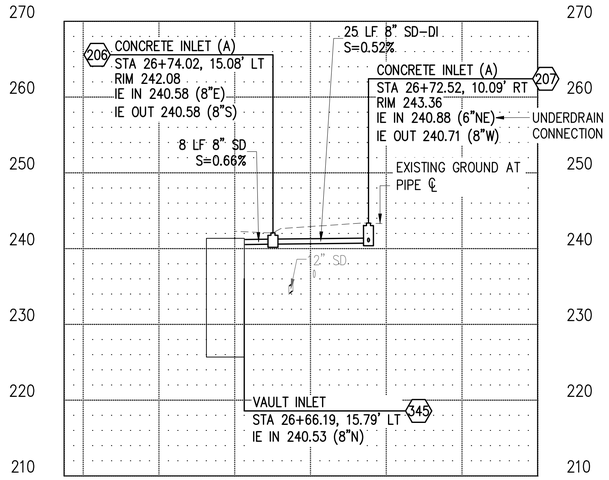
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

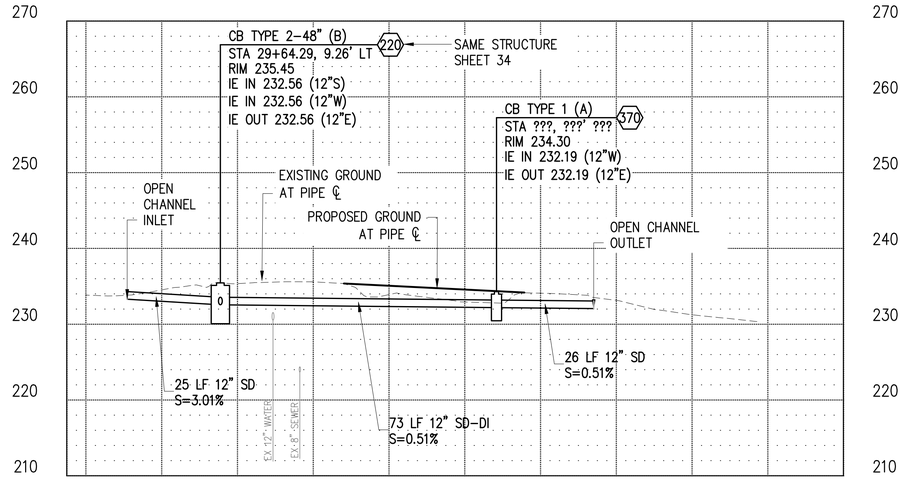
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

KPG PROJECT No. 21078 | SHT 42 OF 129

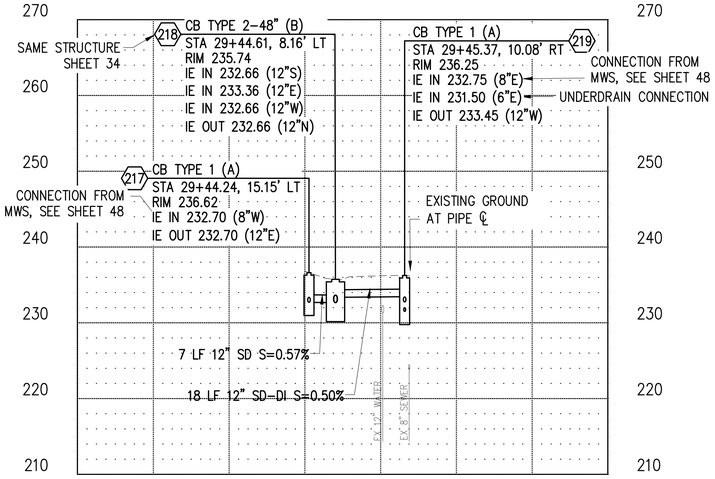
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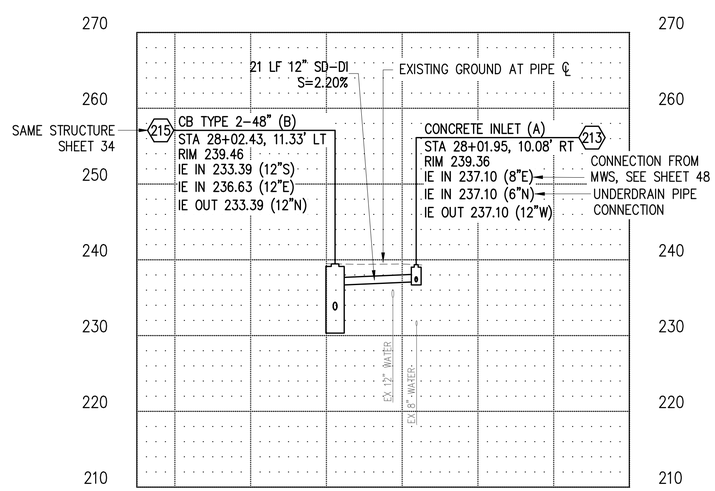
PROFILE - VAULT TO CB 373
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 220
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 219 TO CB 217
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 215 TO CB 213
HORIZ: 1" = 20'
VERT: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
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5. STORM PIPES SHALL BE PER WSDOT STANDARD SPECS AND PVC SHALL NOT BE ALLOWED WITH COVER LESS THAN 3 FT.

PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3-020-018 AND 3-02-014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3-020-022 AND 3-020-023.

(C) INSTALL STRUCTURE WITH STANDARD SOLID COVER AND FRAME PER COD STD DETAIL 3-020-015 AND 3-02-014.

(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

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PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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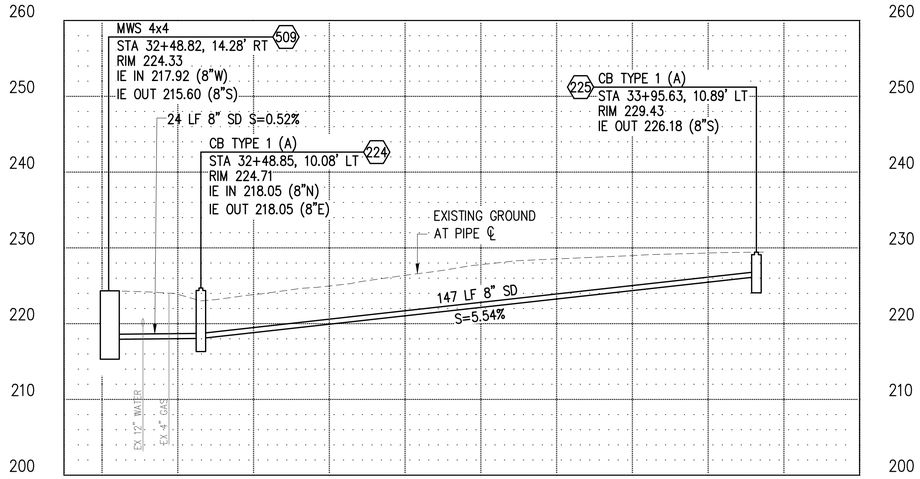
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

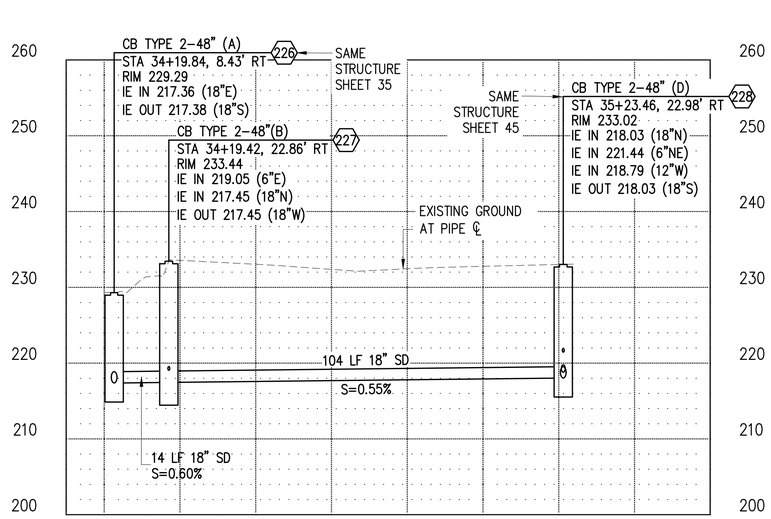
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

KPG PROJECT No. 21078

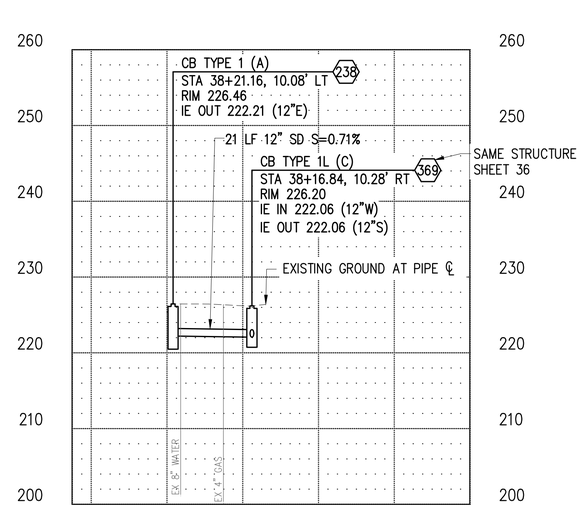
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PROFILE - MWS 509 TO CB 225
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 226 TO CB 228
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 238 TO CB 369
HORIZ: 1" = 20'
VERT: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
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(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35701 — REGISTERED PROFESSIONAL ENGINEER

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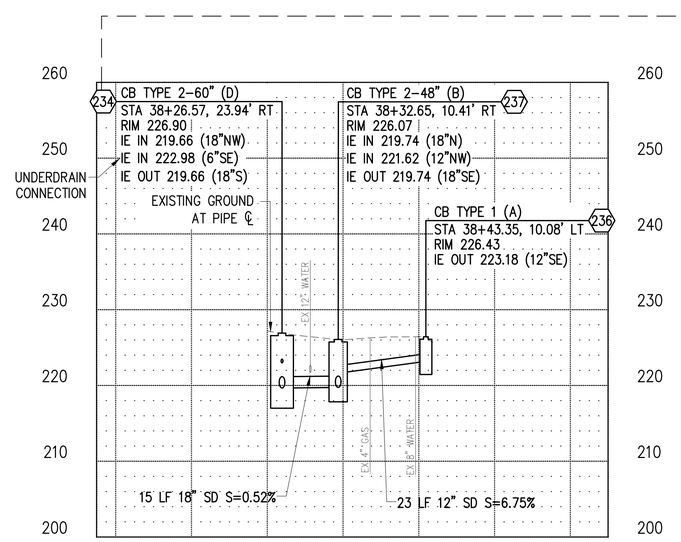
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CITY OF DUVALL
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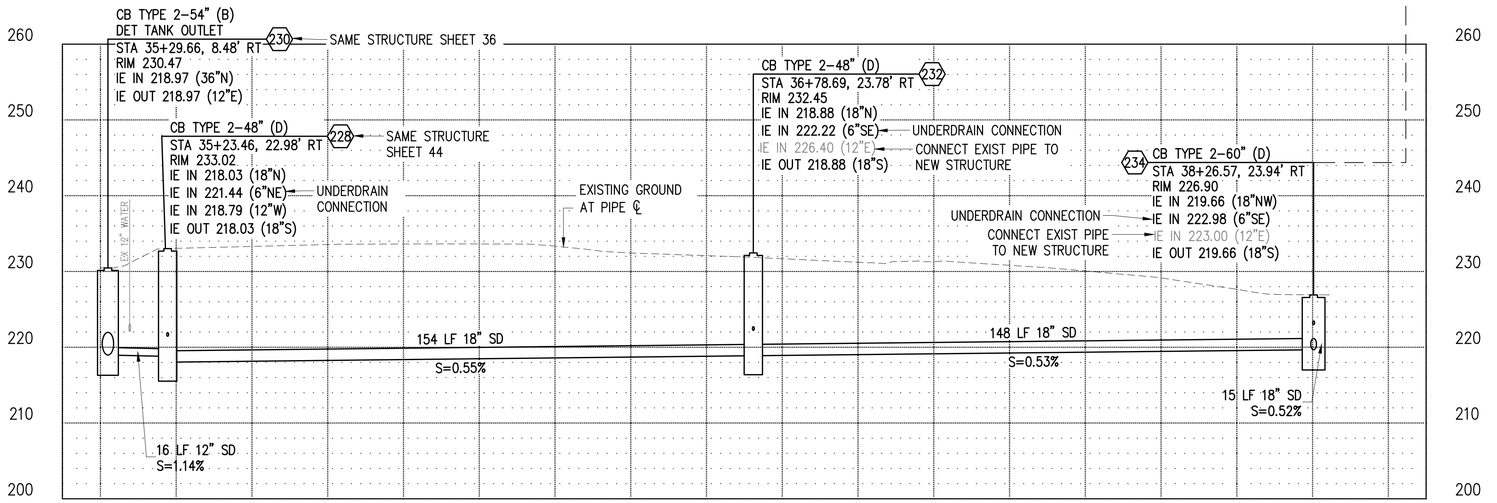
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

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PROFILE - CB 237 TO CB 236
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 230 TO CB 234
HORIZ: 1" = 20'
VERT: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE EXISTING UTILITIES.
2. CATCH BASINS SHALL CONFORMING TO THE FOLLOWING STANDARD PLANS:
   a. TYPE 1 PER COD STD DETAIL 3–020–003
   b. TYPEL 1L PER COD STD DETAIL 3–020–004
   c. TYPE 2 PER COD STD DETAIL 3–020–005
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PROFILE NOTES

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(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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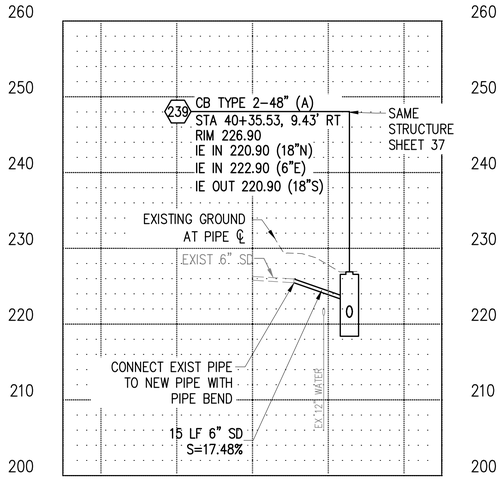
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

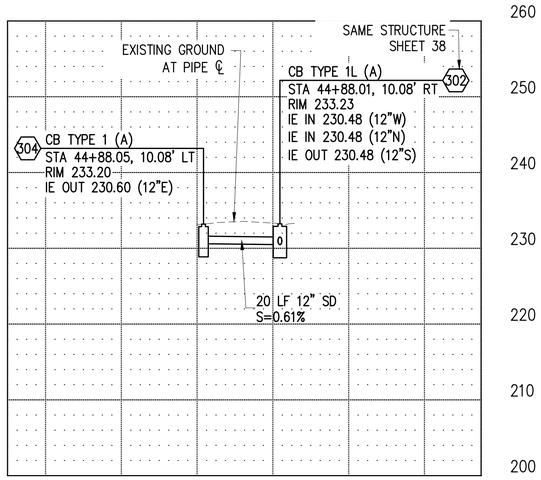
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

KPG PROJECT No. 21078 | SHT 45 OF 129

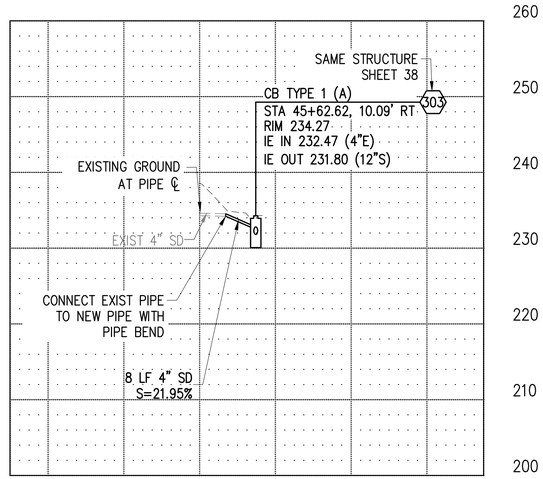
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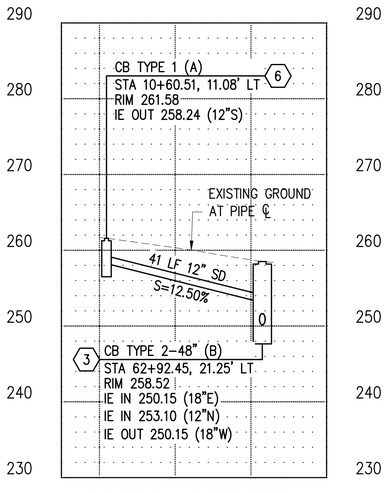
PROFILE - CB 239
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 304 TO CB 302
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 303
HORIZ: 1" = 20'
VERT: 1" = 10'



PROFILE - CB 6 TO CB 3
HORIZ: 1" = 20'
VERT: 1" = 10'

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PROFILE NOTES

(A) INSTALL STRUCTURE WITH VANED GRATE AND FRAME PER COD STD DETAIL 3–020–018 AND 3–02–014.

(B) INSTALL STRUCTURE WITH ROUND SOLID LOCKING COVER AND FRAME PER COD STD DETAIL 3–020–022 AND 3–020–023.

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(D) INSTALL STRUCTURE WITH ADA COMPLIANT SLIP RESISTANT LID.

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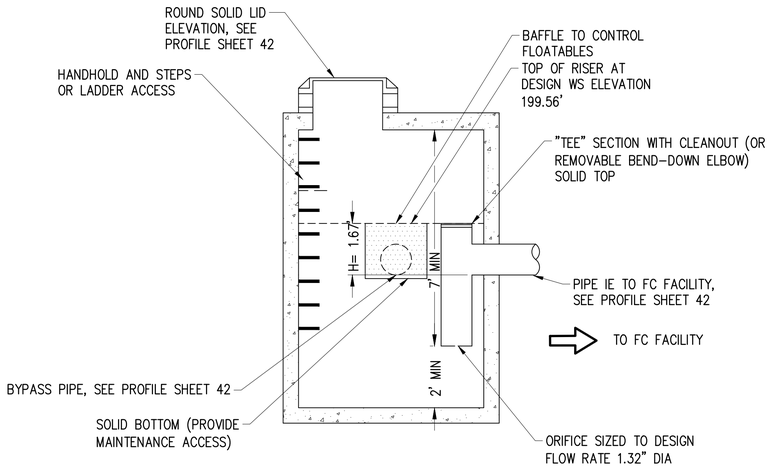
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

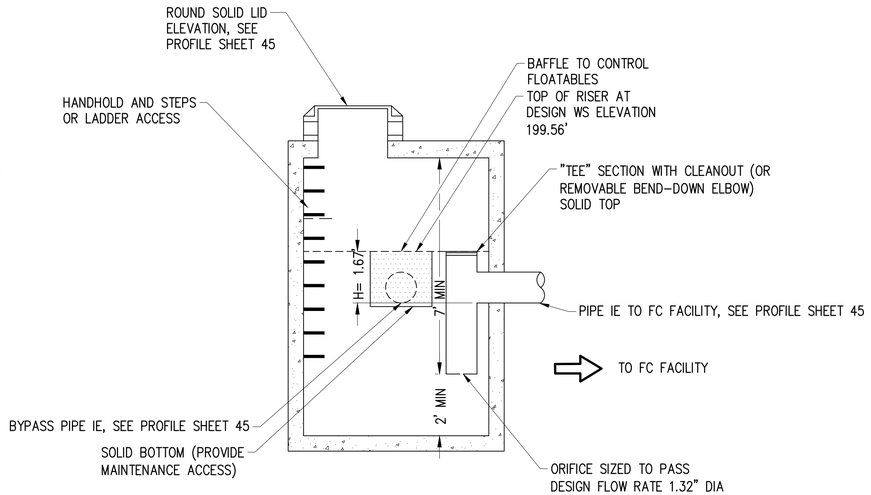
ADDITIONAL STORMWATER PROFILES
DRAINAGE PROFILES

KPG PROJECT No. 21078 | SHT 46 OF 129

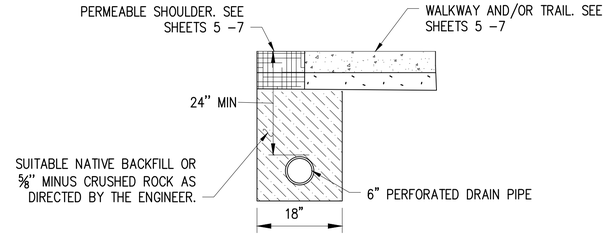
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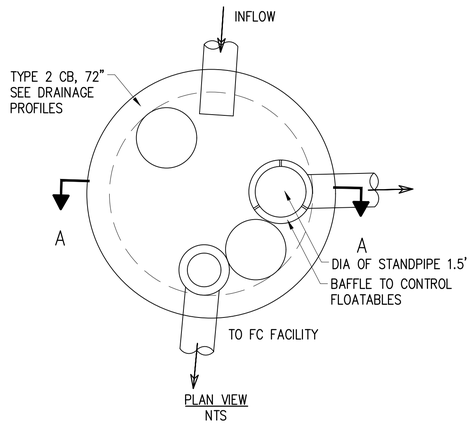
SECTION A–A
NTS



SECTION A–A
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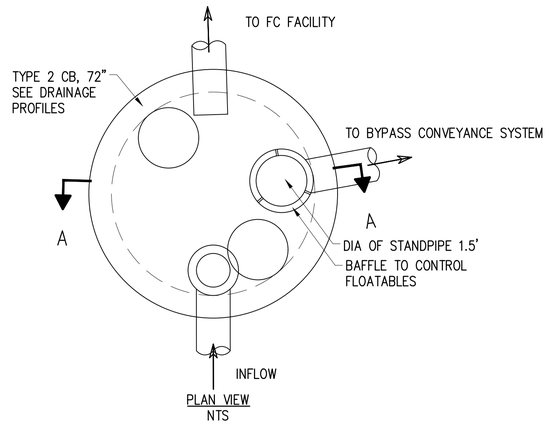


6" UNDER DRAIN PIPE INSTALLATION DETAIL
NTS



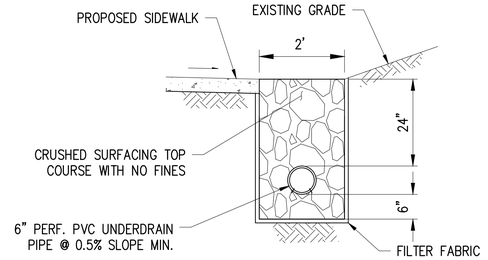
PLAN VIEW
NTS

STRUCTURE 25 FLOW SPLITTER DETAIL
NTS



PLAN VIEW
NTS

STRUCTURE 208 FLOW SPLITTER DETAIL
NTS



SIDEWALK FRENCH DRAIN DETAIL
NTS

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Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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FILENAME	
KDP	06/2023
DESIGNED BY	DATE
KDP	06/2023
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BLT	06/2023
CHECKED BY	DATE

BRIAN L. TAYLOR — STATE OF WASHINGTON — 25703 — REGISTERED PROFESSIONAL ENGINEER

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STORMWATER DETAILS

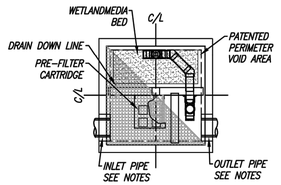
KPG PROJECT No. 21078

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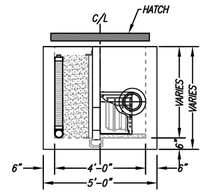
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SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
FLOW BASED (CFS)			
0.052			
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE			
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION			
SURFACE LOAD	DIRECT TRAFFIC		
NOTES:			

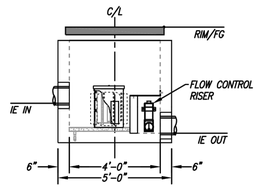
* PRELIMINARY NOT FOR CONSTRUCTION



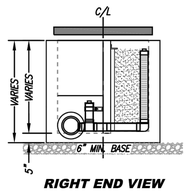
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT CONTECH.

TREATMENT FLOW (CFS)	0.052
OPERATING HEAD (FT)	VARIES
PRETREATMENT LOADING RATE (GPM/SF)	1.8
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

MODULAR WETLANDS — FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

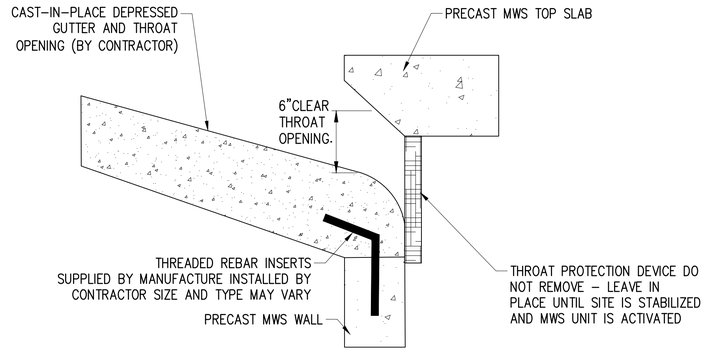
CONTECH® ENGINEERED SOLUTIONS LLC www.ContechES.com

MWS-L-4-4-V-UG
STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL

4'X4' MODULAR WETLAND SYSTEM DETAIL

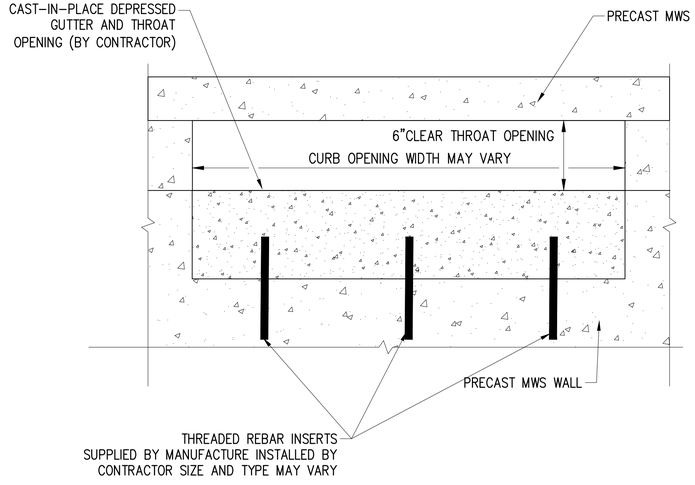
NTS

WQ UNIT SIZING TABLE		
WQ Unit	MWS Unit Size	Inlet Type
501	4x4x1.4	Curb Inlet
502	4x4x1.4	Pipe Inlet
503	4x4x1.4	Curb Inlet
504	4x4x1.4	Curb Inlet
505	4x4x1.4	Curb Inlet
506	4x4x1.4	Curb Inlet
507	4x4x1.4	Curb Inlet
508	4x4x1.4	Curb Inlet
509	4x4x2.0	Curb Inlet and Pipe Inlet with Internal Bypass



SECTION VIEW - STANDARD MODULAR WETLAND CURB OPENING

NTS



FRONT VIEW - STANDARD MODULAR WETLAND CURB OPENING

NTS

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PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 23781 — REGISTERED PROFESSIONAL ENGINEER

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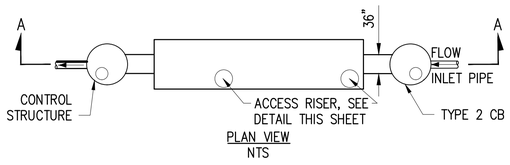
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3RD AVENUE NE RECONSTRUCTION

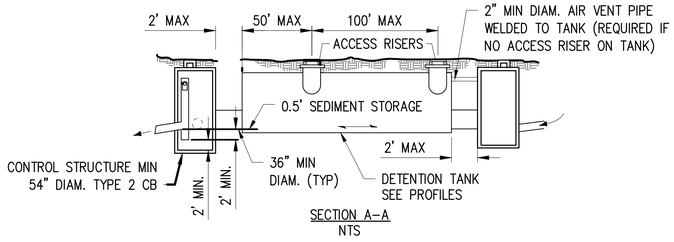
STORMWATER DETAILS

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SHT 48 OF 129

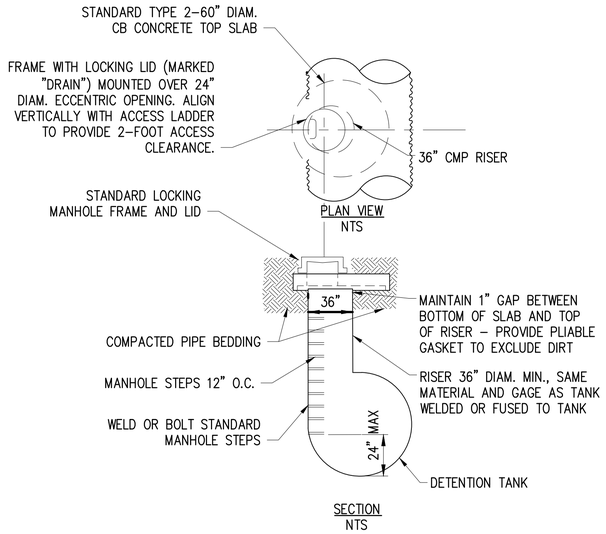
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NOTES:
1. ALL METAL PARTS CORROSION RESISTANT. STEEL PARTS STAINLESS STEEL OR ALUMINIZED STEEL, EXCEPT TANK MAY BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER).

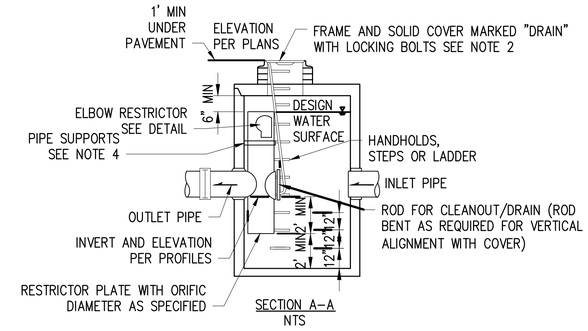
DETENTION TANK TYPICAL DETAIL
NTS

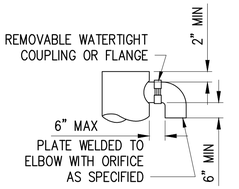


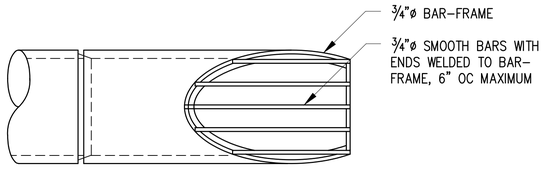
NOTES:
1. USE ADJUSTING BLOCKS AS REQUIRED TO BRING FRAME TO GRADE.
2. ALL MATERIALS TO BE ALUMINUM OR GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER), OR STAINLESS STEEL OR ALUMINIZED STEEL.

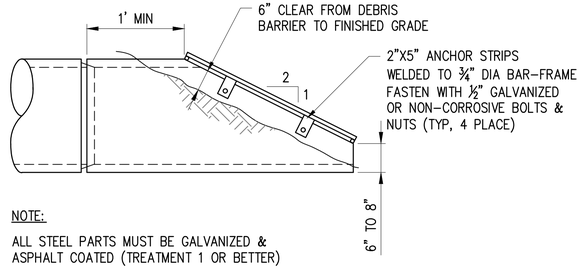
DETENTION TANK ACCESS RISER TYPICAL DETAIL
NTS

DETENTION FACILITY OUTLET STRUCTURES				
ID	A1 (TANK)	A2 (TANK)	C1 (VAULT)	C2 (TANK)
OUTLET STRUCTURE ID	STRUCTURE 10	STRUCTURE 16	STRUCTURE 217	STRUCTURE 230
OUTLET STRUCTURE ORIFICES	DIAM 1: 13/32 IN, HEIGHT 0 FT FROM PIPE OUTLET IE DIAM 2: 3/8 IN, HEIGHT 2.5 FT FROM PIPE OUTLET IE	DIAM 1: 13/32 IN, HEIGHT 0 FT FROM PIPE OUTLET IE DIAM 2: 15/32 IN, HEIGHT 1.85 FT FROM PIPE OUTLET IE	DIAM 1: 23/32 IN, HEIGHT 0 FT FROM PIPE OUTLET IE DIAM 2: 23/32 IN, HEIGHT 3.8 FT FROM PIPE OUTLET IE DIAM 3: 11/16 IN, HEIGHT 5 FT FROM PIPE OUTLET IE	DIAM 1: 3/8 IN, HEIGHT 0 FT FROM PIPE OUTLET IE DIAM 2: 11/32 IN, HEIGHT 2 FT FROM PIPE OUTLET IE
OUTLET RISER HEIGHT	3.5 FT	4 FT	6 FT	3 FT
OUTLET RISER DIAMETER	18 IN	18 IN	18 IN	18 IN
RISER TYPE	FLAT	FLAT	FLAT	FLAT

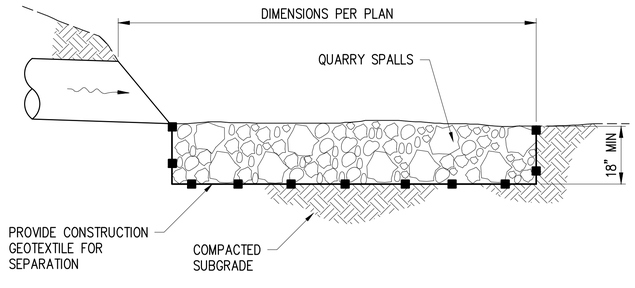




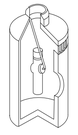


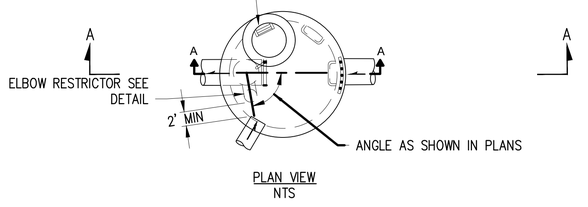


DEBRIS BARRIER FOR 18-INCH DIAM PIPES
NTS



OUTFALL PROTECTION
NTS





NOTES:
1. OUTLET CAPACITY: 100–YEAR DEVELOPED PEAK FLOW.
2. METAL PARTS: CORROSION–RESISTANT. STAINLESS STEEL OR ALUMINIZED STEEL.
3. FRAME AND LADDER OR STEPS OFFSET SO:
   3.A. CLEANOUT GATE IS NOT VISIBLE FROM TOP.
   3.B. CLIMB–DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
   3.C. FRAME IS CLEAR OF CURB.
4. PROVIDE AT LEAST ONE 3" X 0.090 GAGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL (MAXIMUM 3'–0" VERTICAL SPACING).
5. LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN.
6. LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.
7. TEE SHALL BE CONSTRUCTED OF ALUMINUM CMP OR ALUMINIZED STEEL CMP MEETING WSDOT/APWA STANDARDS

CONTROL STRUCTURE TYPICAL DETAIL
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NO.	DATE	BY	APPR.	REVISIONS

Approved By	
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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 19760 — REGISTERED PROFESSIONAL ENGINEER

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Seattle, WA 98121 206.286.1640
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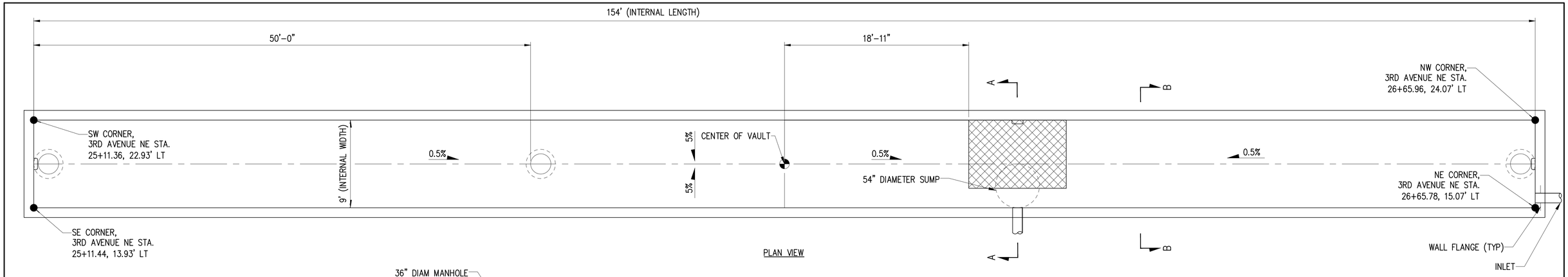
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3RD AVENUE NE RECONSTRUCTION

STORMWATER DETAILS

KPG PROJECT No. 21078 | SHT 49 OF 129

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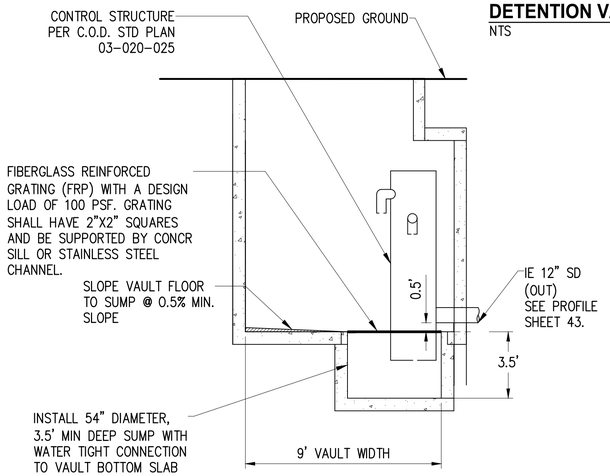


NOTES:

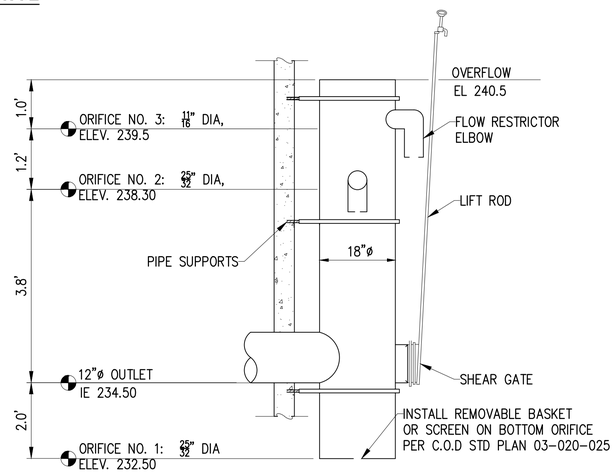
1. DETENTION VAULT PER KCRDCS STANDARDS UNLESS OTHERWISE NOTED ON THIS SHEET.
2. FLOW RESTRICTOR PER C.O.D. STD PLAN 3-020-025 TO BE LOCATED INSIDE OF DETENTION VAULT. SEE ELEVATION VIEW FOR ORIFICE SIZE AND LOCATIONS.
3. CONTROL STRUCTURE TO BE LOCATED AT ACCESS OPENING. POSITION ORIFICES, AND SHEAR GATE SO THAT EACH IS VISIBLE FROM TOP OPENING.
4. PROVIDE WATER STOP AT ALL CAST-IN-PLACE CONSTRUCTION JOINTS. PRE-CAST VAULTS SHALL HAVE APPROVED RUBBER GASKET SYSTEM WITH JOINTS GROUTED AFTER INSTALL.
5. ALL METAL PARTS SHALL BE CORROSION RESISTANT, EITHER ALUMINUM OR STAINLESS STEEL. FASTENERS MAY BE STAINLESS STEEL.
6. DESIGN LIVE LOAD (OVER AND AROUND VAULTS) FOR FIRE DEPARTMENT APPARATUS LOADING:
   a. HS 20 TRUCK LOADING, AND;
   b. STABILIZER OUTRIGGER MAXIMUM REACTION = 45,000-LBS CONCENTRATED LOAD; THIS LOAD MUST BE APPLIED ON AN 18-INCH BY 18-INCH AREA AND ALSO APPLIED AS AN UNFACTORED LOAD ON A 10-INCH BY 14-INCH AREA
7. ACCESS HATCHES FROM LW PRODUCTS COMPANY, OR APPROVED EQUIVALENT. ACCESS HATCH TO HAVE STAINLESS STEEL SPRING LIFTS, LOCKING SUPPORTS, STAINLESS STEEL HARDWARE, REMOVABLE ACCESS HATCH HANDLES, SELF-LATCHING STAINLESS STEEL SLAM LOCK, RECESSED PADLOCK HASP, AND NON-SKID ADA COMPLIANT SURFACE

DETENTION VAULT DETAIL

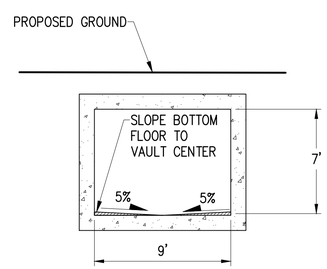
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SECTION A-A



FLOW RESTRICTOR ELEVATION VIEW



SECTION B-B

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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BRIAN L. TAYLOR — STATE OF WASHINGTON — 35703 — REGISTERED PROFESSIONAL ENGINEER

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STORMWATER DETAILS

KPG PROJECT No. 21078

SHT 50 OF 129

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GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE LATEST VERSION OF THE STANDARDS LISTED HEREIN.
2. ELEVATIONS SHOWN ARE APPROXIMATE AND BASED ON EXISTING AND PROPOSED FINISH GRADES. ADJUSTMENTS TO ELEVATIONS MAY BE NECESSARY, DEPENDING ON FIELD CONDITIONS, TO ADHERE WITH THE DESIGN INTENT OF THESE PLANS AND SITE GRADING. CHANGES IN ELEVATIONS AND CONTRACTOR–PROPOSED REMEDIATION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
3. CONTRACTOR IS RESPONSIBLE FOR SHORING. CONTRACTOR SHALL PROVIDE NECESSARY TEMPORARY SUPPORT AND BRACING FOR STRUCTURES AND STRUCTURAL COMPONENTS DURING ALL PHASES OF WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

DESIGN CODES AND STANDARDS:

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
2. WSDOT BRIDGE DESIGN MANUAL.
3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318.
4. AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION, THIRD PRINTING.

STRUCTURAL CONCRETE:

1. STRUCTURAL CONCRETE SHALL HAVE A MINIMUM STRENGTH (f'c) OF 4,000 PSI.
2. ALL CONCRETE SHALL BE CLASS 4000, f'c 4,000 PSI.
3. REINFORCED CONCRETE UNIT WEIGHT IS TAKEN AS 160 PCF.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
5. CONCRETE CLEAR COVER REQUIREMENTS SPECIFIED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CAST–IN–PLACE CONCRETE EXPOSED TO EARTH OR WEATHER	
PRIMARY REINFORCEMENT	2"
STIRRUPS, TIES, OR SPIRALS	1–1/2"

6. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 3/4" CHAMFERS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

GEOTECHNICAL:

SOIL PRESSURE PER GEOTECHNICAL ENGINEERING REPORT 3RD AVENUE NE RECONSTRUCTION PROJECT 143RD PLACE NE TO NE STEPHENS STREET, DUVALL, WASHINGTON, DATED JANUARY 10, 2023.

BURIED STRUCTURE NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO AND BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, THE SPECIAL PROVISIONS, AND THESE PLANS.
2. THE CONTRACTOR DESIGNED BURIED STRUCTURE AND ASSOCIATED SUBSTRUCTURE, FOOTINGS, WING WALLS, AND HEADWALLS, SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
3. THE CONTRACTOR DESIGNED BURIED STRUCTURE AND ASSOCIATED SUBSTRUCTURE, FOOTINGS, WING WALLS,AND HEADWALLS, SHALL BE LOCATED AS SPECIFIED IN THE CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO THE ALIGNMENT, LENGTHS, PROFILE AND ELEVATION.
4. THE SEISMIC DESIGN OF THE CONTRACTOR DESIGNED BURIED STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH PUBLICATION NO. FHWA–NHI–10–034 "TECHNICAL MANUAL FOR DESIGN AND CONSTRUCTION OF ROAD TUNNELS– CIVIL ELEMENTS".

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

3rd Ave Duvall - ST00.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR STATE OF WASHINGTON 32119 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER

I CHUDGAR

60% REVIEW SUBMITTAL

City of Duvall
Small Town. Real Life.

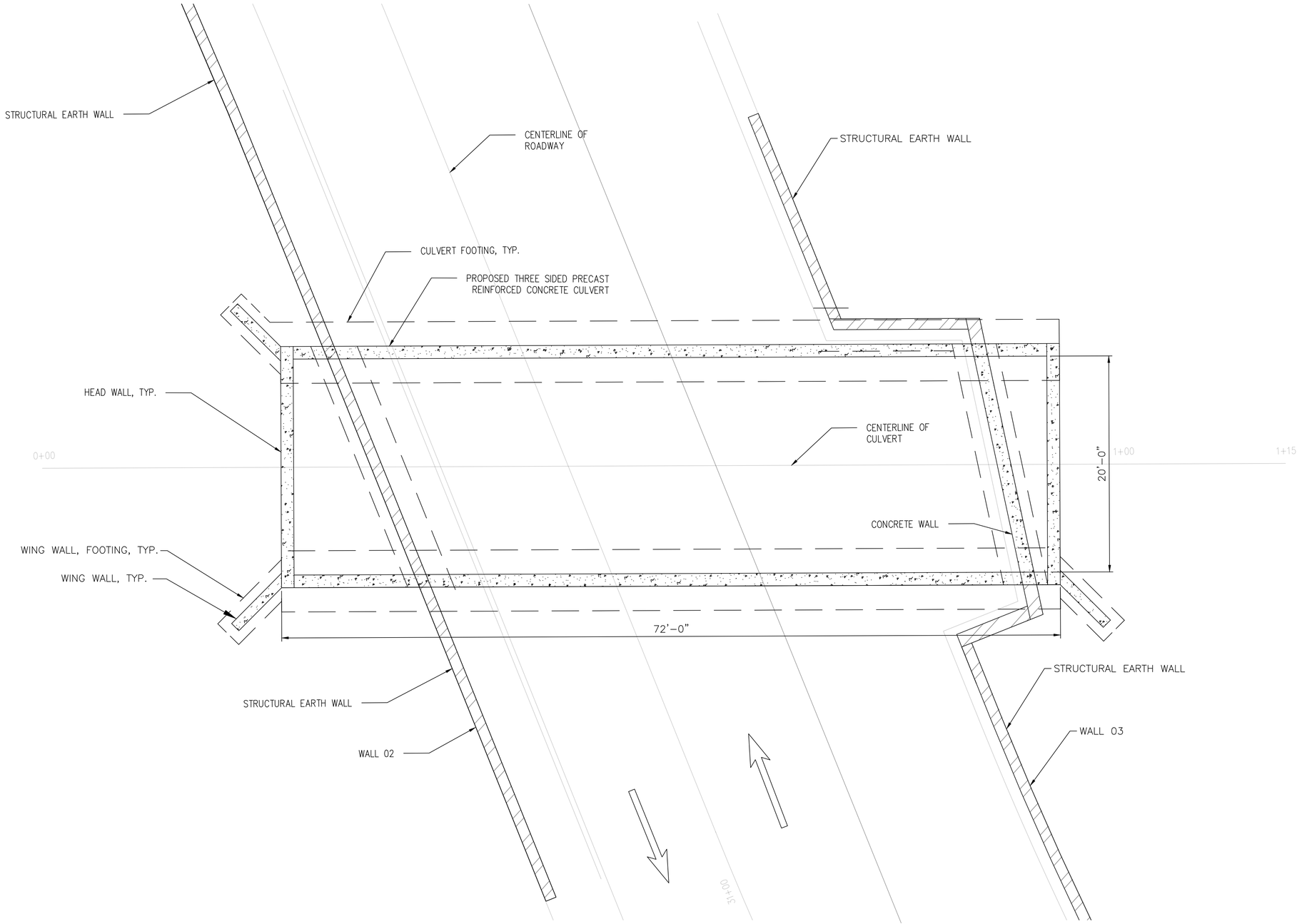
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STRUCTURAL NOTES

KPG PROJECT No. 21078

SHT 51 OF 129

D:\Tammy\DUVALL 3RD AVENUE\After Justin's comments_ty\CAD – 34x22\3rd Ave Duvall – ST00.dwg 7/6/2023 9:43 AM



CULVERT PLAN
SCALE: 1" = 5' - 0"

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NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

3rd Ave Duvall - ST01.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR — STATE OF WASHINGTON — 32119 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

I CHUDGAR

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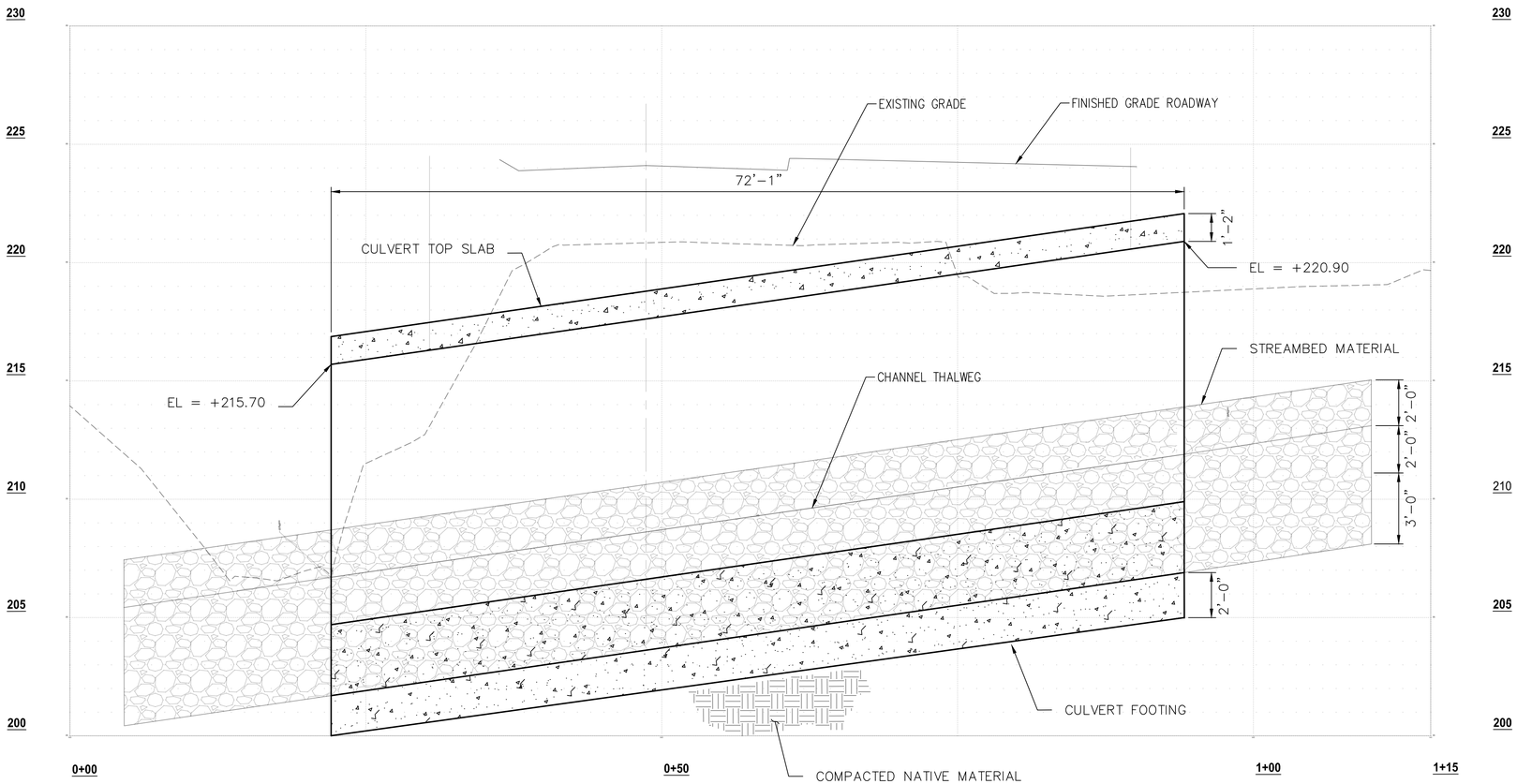
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CULVERT PLAN

KPG PROJECT No. 21078

SHT 52 OF 129



CULVERT PROFILE

SCALE: REFER TO GRID PROFILE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

3rd Ave Duvall - ST02.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR STATE OF WASHINGTON 32119 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER

I CHUDGAR

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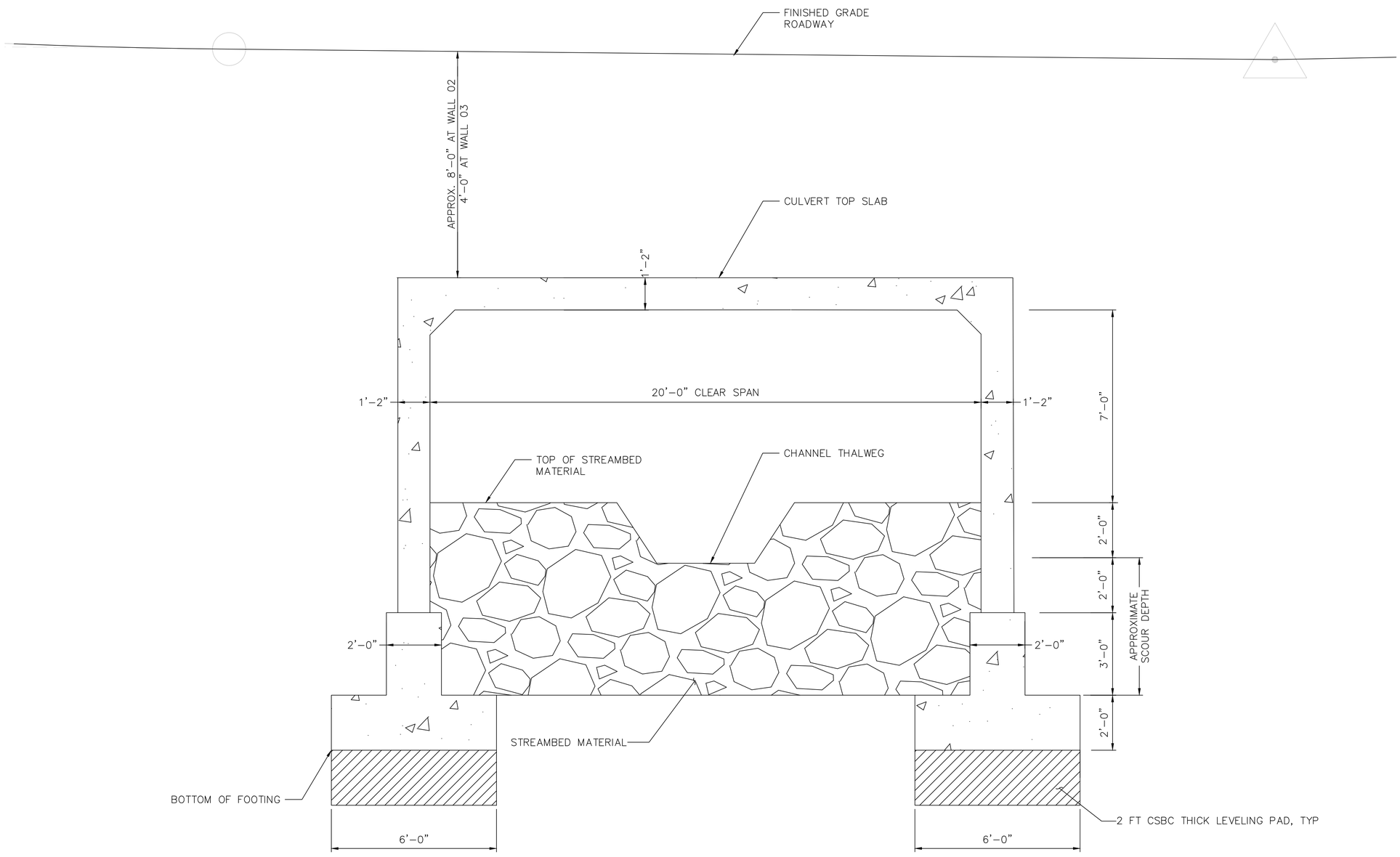
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CULVERT PROFILE

KPG PROJECT No. 21078 | SHT 53 OF 129

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CULVERT SECTION

SCALE: 1" = 2'-0"

0 2 4
GRAPHIC SCALE IN FEET

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

3rd Ave Duvall - ST03.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

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I
—CHUDGAR—

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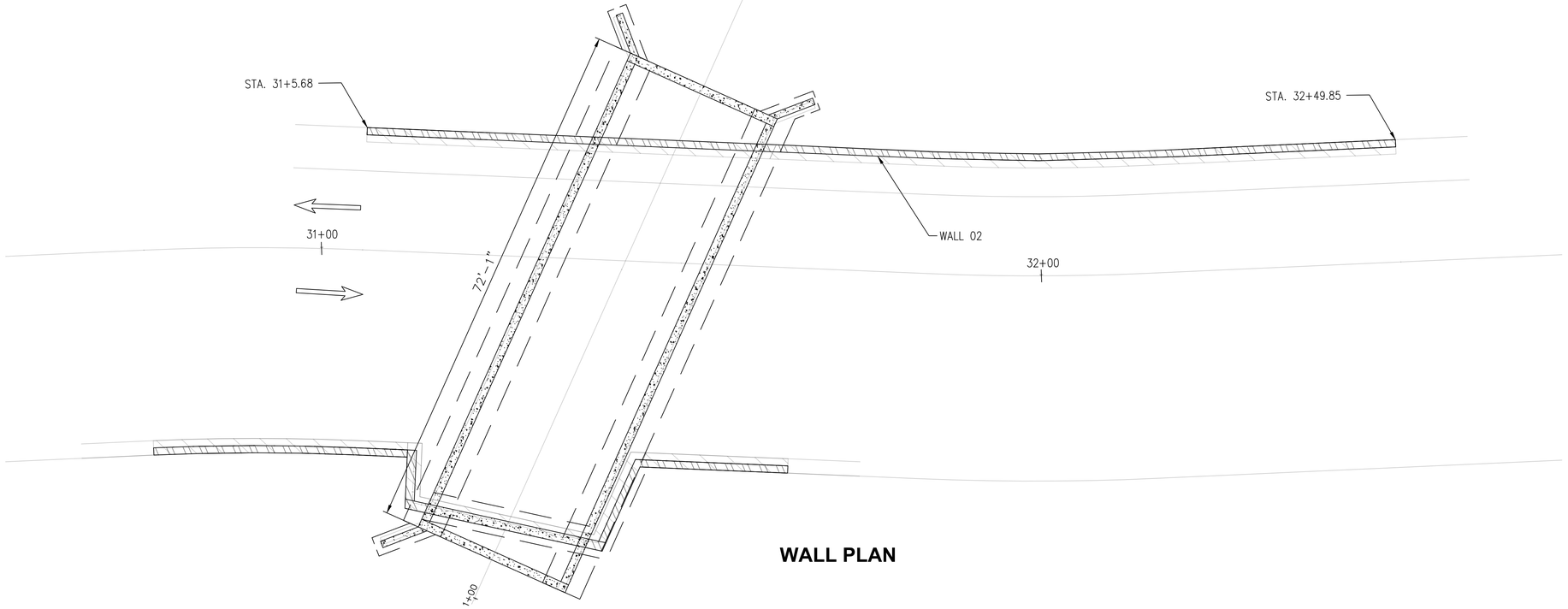
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CULVERT SECTION

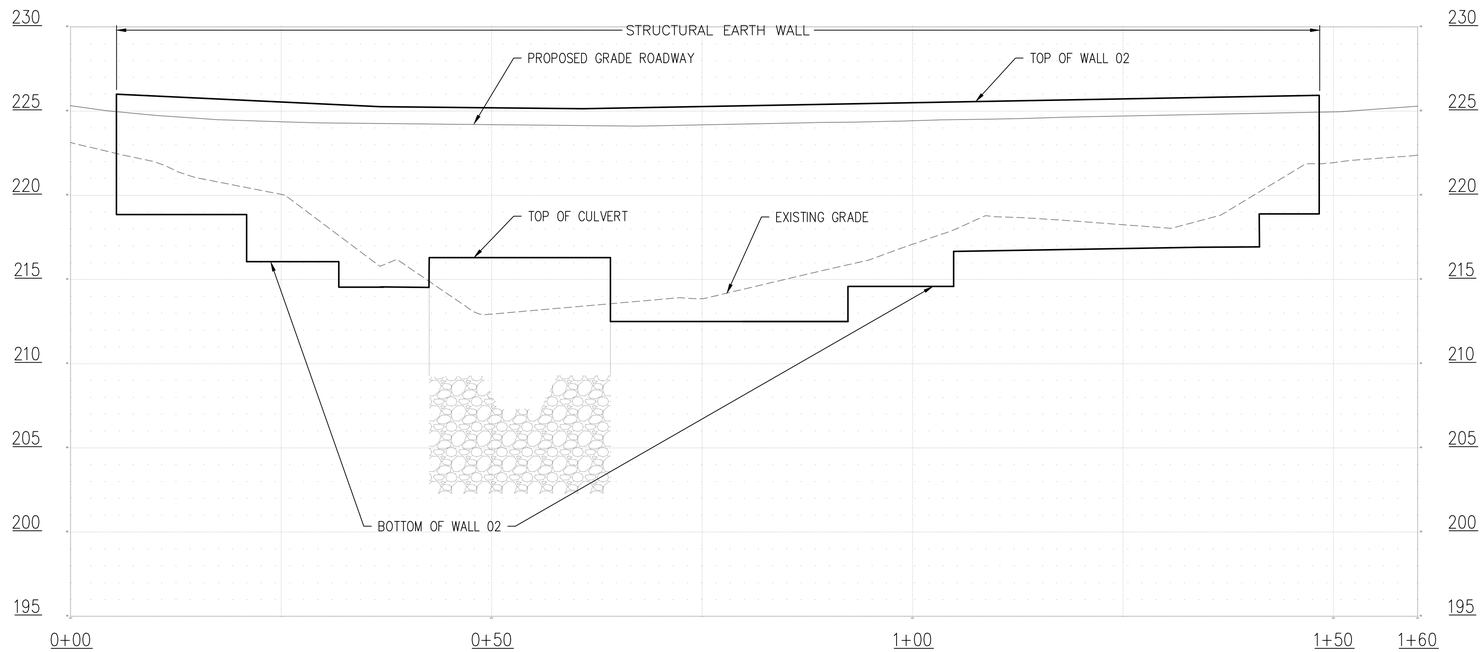
KPG PROJECT No. 21078

SHT 54 OF 129

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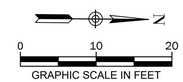


WALL PLAN



WALL DEVELOPED ELEVATION

SCALE: REFER TO PROFILE GRIDS



NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

3rd Ave Duvall - ST04.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR — STATE OF WASHINGTON — 32119 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

CHUDGAR

60% REVIEW SUBMITTAL

City of Duvall
Small Town. Real Life.

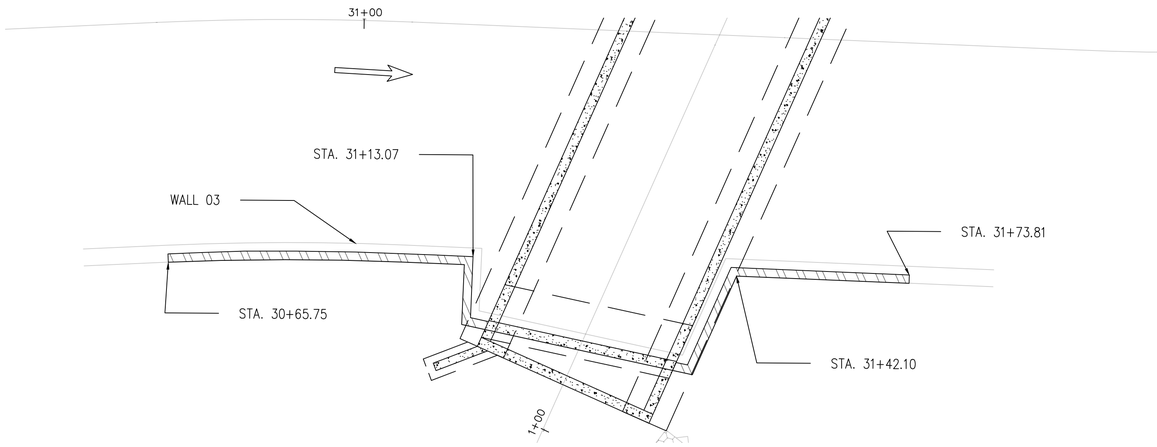
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

WALL 02 PLAN AND ELEVATION

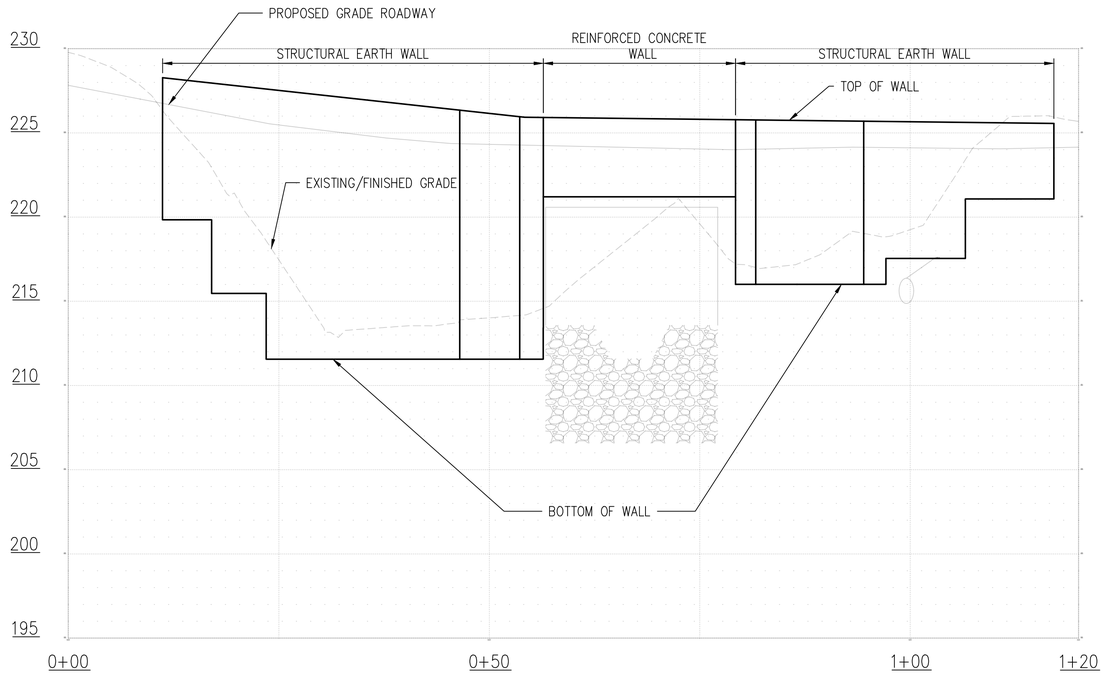
KPG PROJECT No. 21078

SHT 55 OF 129

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WALL PLAN



WALL DEVELOPED ELEVATION

SCALE: NTS

N

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NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

3rd Ave Duvall - ST05.dwg

FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR STATE OF WASHINGTON 32119 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER

I CHUDGAR

60% REVIEW SUBMITTAL

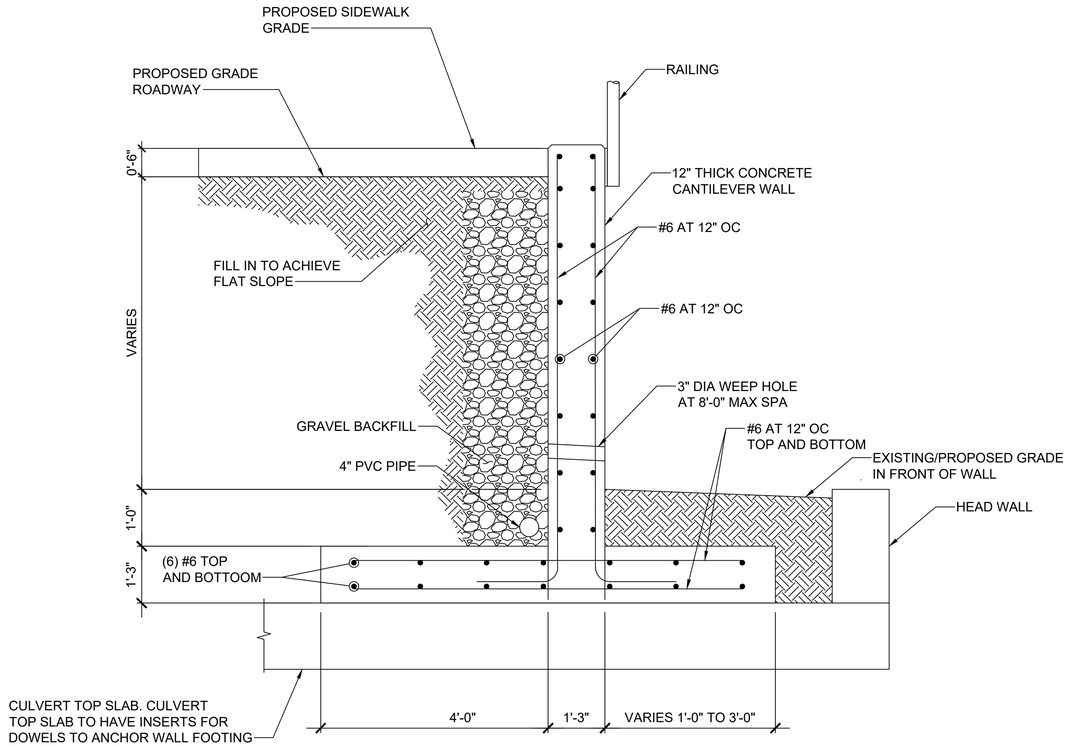
City of Duvall
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

WALL 03 PLAN AND ELEVATION

KPG PROJECT No. 21078

SHT 56 OF 130



CONCRETE WALL SECTION A

SCALE: 3/4"=1'-0"

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

3rd Ave Duvall - ST06.dwg

FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR STATE OF WASHINGTON 32119 STRUCTURAL ENGINEER PROFESSIONAL ENGINEER

CHUDGAR

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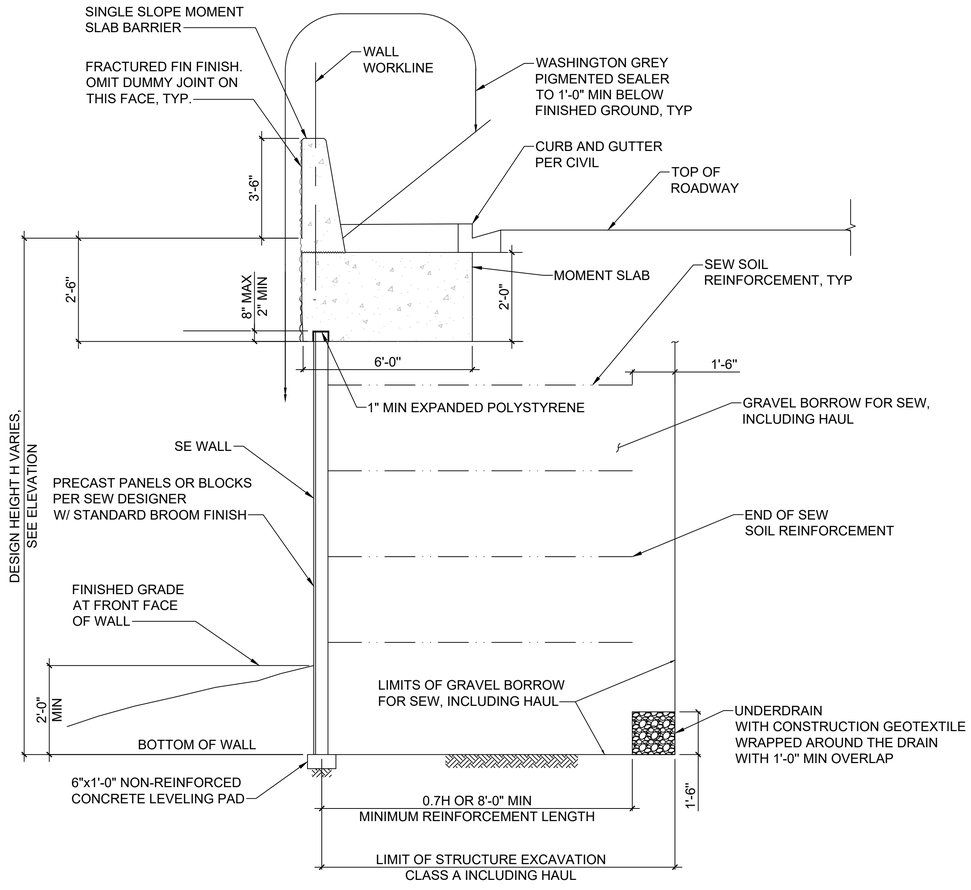
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CONCRETE WALL SECTION

KPG PROJECT No. 21078

SHT 57 OF 130

\\Diskstation\PUBLIC\JOBS\974 3rd Ave\Samson\07-05-2023\Final Review\After Justin's comments\CAD\3rd Ave Duvall - ST06.dwg 7/6/2023 10:02 AM



STRUCTURAL EARTH WALL SECTION B

SCALE: 3/8"=1'-0"

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

3rd Ave Duvall - ST07.dwg	
FILENAME	
SAMSON HAGOS	07/06/2023
DESIGNED BY	DATE
TAMMY YARED	07/06/2023
DRAWN BY	DATE
SAMIR CHUDGAR	07/06/2023
CHECKED BY	DATE

SAMIR I. CHUDGAR — STATE OF WASHINGTON — 32119 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

CHUDGAR

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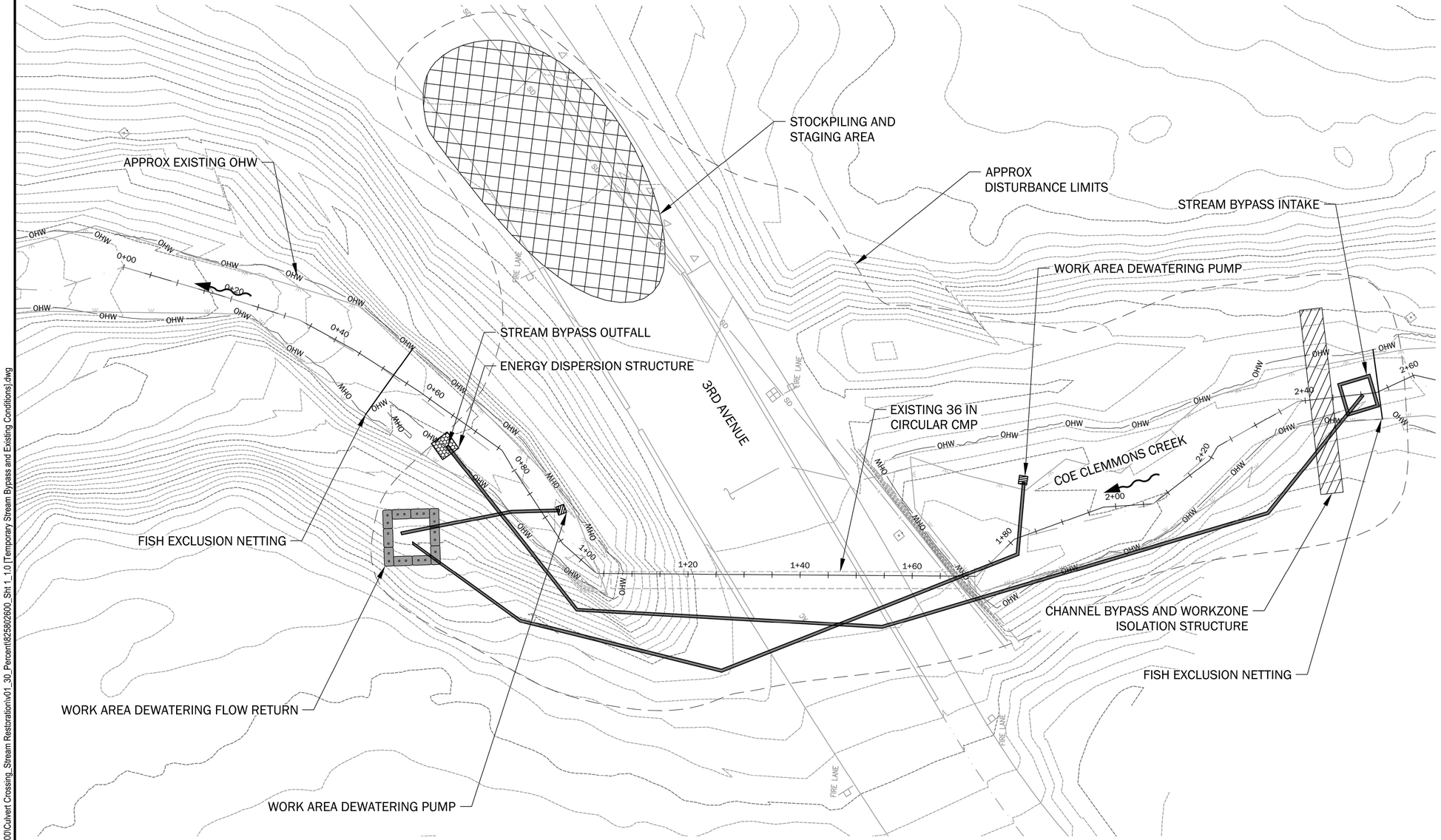
City of Duvall
Small Town. Real Life.

CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

STRUCTURAL EARTH WALL SECTION

KPG PROJECT No. 21078 | SHT 58 OF 129

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TEMPORARY STREAM BYPASS AND EXISTING CONDITIONS

SCALE: 1" = 10'

0 10 20

GRAPHIC SCALE IN FEET

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE EROSION AND SEDIMENT CONTROL (ESC) STRUCTURES IS THE RESPONSIBILITY OF THE LEAD (ESC) CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETE AND APPROVED.
2. CONTRACTOR SHALL PREPARE A 1200-C PERMIT IF DISTURBANCE IS GREATER THAN 1 ACRE.
3. ANY EQUIPMENT REFUELING AND PLACEMENT OF STATIONARY MOTORIZED EQUIPMENT SHALL BE LOCATED AT LEAST 150FT AWAY FROM THE ACTIVE CHANNEL MARGIN, UNLESS OTHERWISE APPROVED IN THE ENVIRONMENTAL PERMITS.
4. ESC FACILITIES SHOWN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS TO ENSURE THAT WATER MEETS WASHINGTON WATER QUALITY STANDARDS.
5. THE ESC FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND MAINTAINED AS NECESSARY TO ENSURE THEIR PROPER PERFORMANCE THROUGHOUT THE DURATION OF CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.

TEMPORARY WATER MANAGEMENT NOTES:

1. ALL IN-WATER WORK SHALL OCCUR WITHIN THE IN-WATER WORK WINDOW, BETWEEN AUGUST 1 AND AUGUST 15, OR AS SPECIFIED IN THE ENVIRONMENTAL PERMITS
2. BYPASS PIPE LOCATIONS ARE APPROXIMATE AND MAY BE FIELD FIT. BYPASS CULVERT MAY BE USED IN PLACE OF BYPASS PIPE DEPENDENT ON FLOW CONDITIONS.

PRELIMINARY

NO.	DATE	BY	ISSUE / DESCRIPTION

DESIGNED BY:	GLS
DRAWN BY:	GLS
APPROVED BY:	DJE
REVISION NO.:	---
DATE:	11/30/22

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PREPARED FOR:
KPG PSOMAS, INC.

CITY OF DUVALL, 3RD AVENUE NE RECONSTRUCTION, COE CLEMMONS CREEK
DUVALL, WASHINGTON

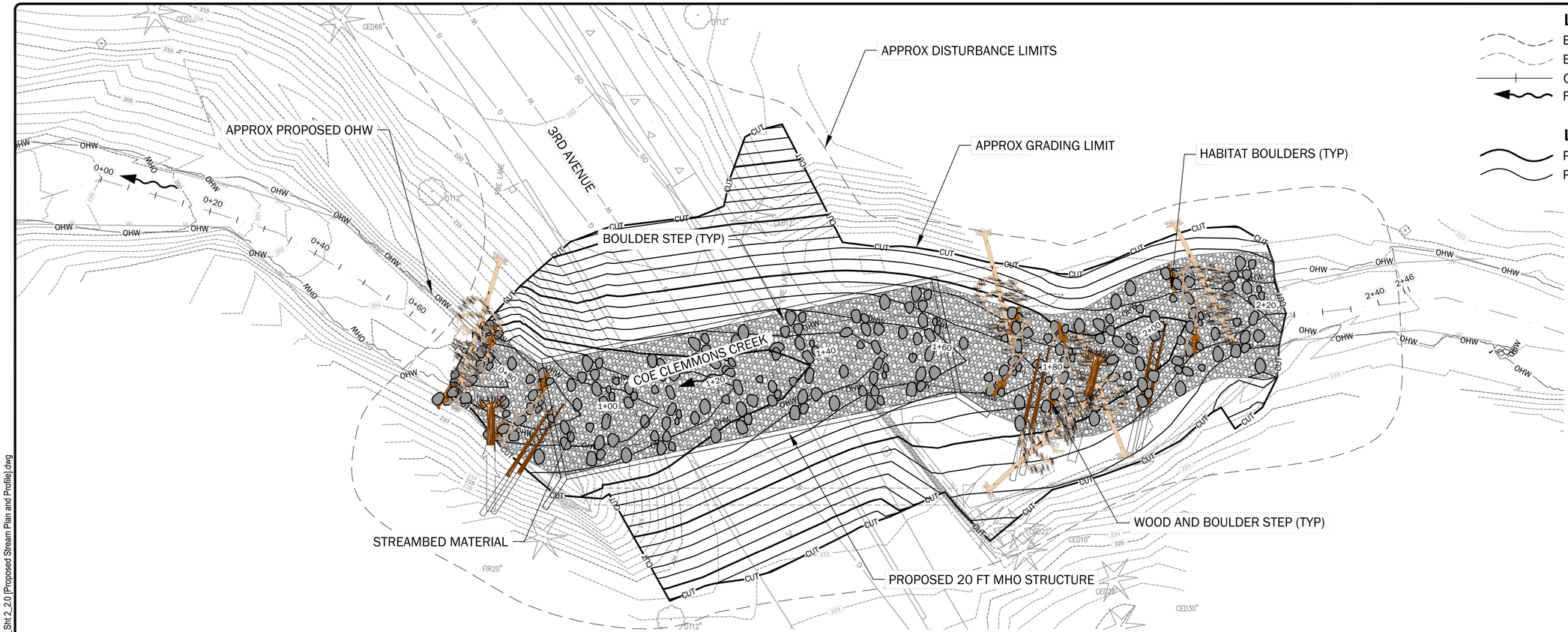
TEMPORARY STREAM BYPASS AND EXISTING CONDITIONS

DRAWING NUMBER: **1.0**

SHEET: 59 OF 129

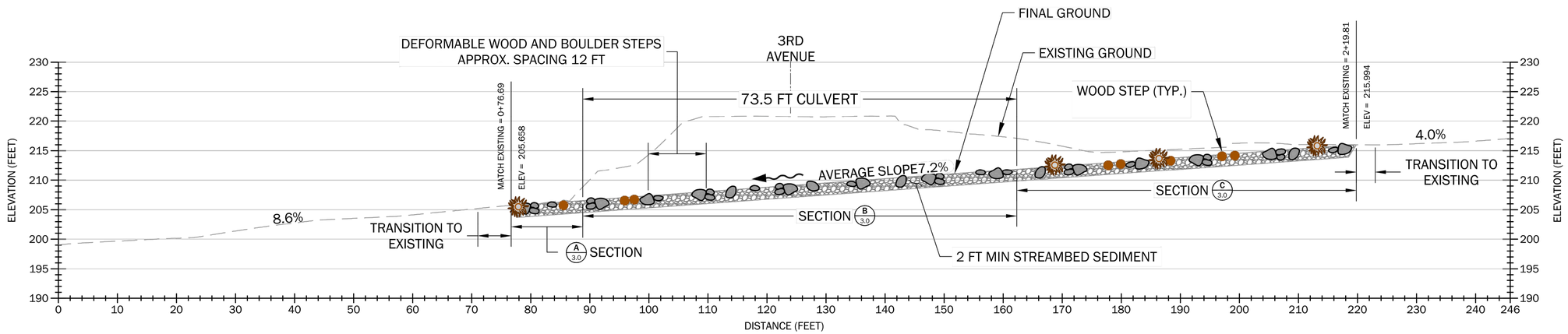
DRAFT 30% SUBMITTAL - NOT FOR CONSTRUCTION

Plotted: 02/02/2023, 12:58 | gspann \\geoengineers.com\wan\Projects\8\82580226\CAD\00\Culvert Crossing_Stream Restoration\v01_30_Percent\825802600_Sht 1_1.0 [Temporary Stream Bypass and Existing Conditions].dwg



PROPOSED STREAM PLAN
SCALE: 1" = 10'

0 10 20
GRAPHIC SCALE IN FEET



PROPOSED STREAM PROFILE
SCALE: 1" = 10'

PRELIMINARY

DRAFT 30% SUBMITTAL - NOT FOR CONSTRUCTION

NO.	DATE	BY	ISSUE / DESCRIPTION

DESIGNED BY:	GLS
DRAWN BY:	GLS
APPROVED BY:	DJE
REVISION NO.:	---
DATE:	11/30/22

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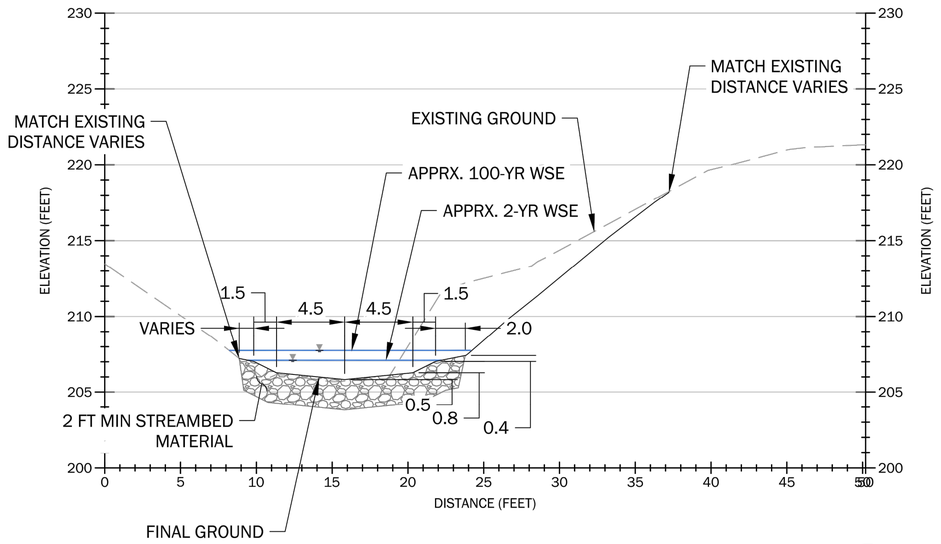
PREPARED FOR:
KPG PSOMAS, INC.

CITY OF DUVALL, 3RD AVENUE NE RECONSTRUCTION, COE CLEMMONS CREEK
DUVALL, WASHINGTON

PROPOSED STREAM PLAN AND PROFILE

DRAWING NUMBER: **2.0**
SHEET: 60 OF 129

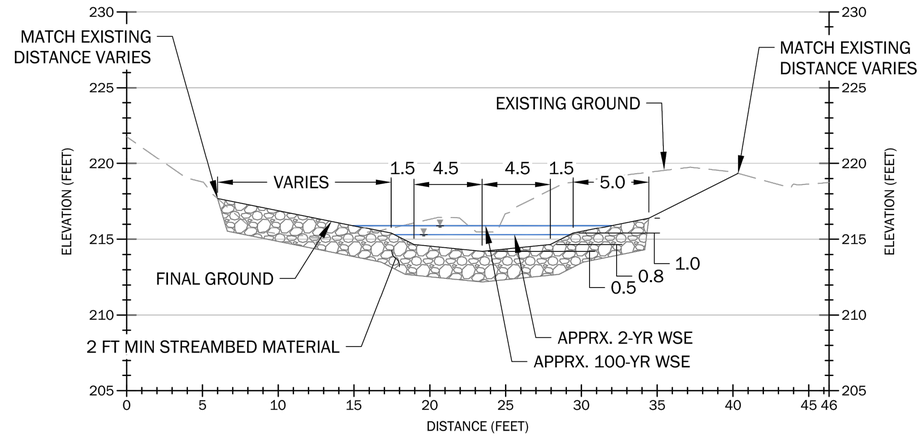
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PROPOSED STREAM TYPICAL DOWNSTREAM SECTION STA 0+78 TO 0+89 (A / 2.0)

SCALE: 1" = 10'

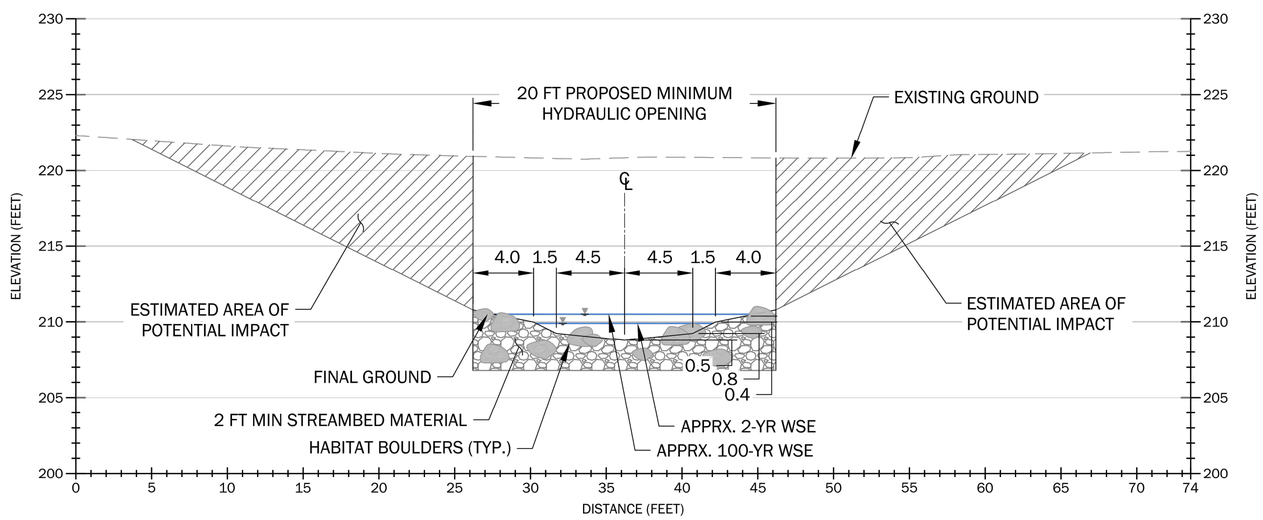
GRAPHIC SCALE IN FEET



PROPOSED STREAM TYPICAL UPSTREAM SECTION STA 1+62 TO 2+20 (C / 2.0)

SCALE: 1" = 10'

GRAPHIC SCALE IN FEET



PROPOSED STREAM TYPICAL ROAD SECTION STA 0+89 TO 1+62 (B / 2.0)

SCALE: 1" = 10'

GRAPHIC SCALE IN FEET

NOTES:

1. CROSSING STRUCTURE TYPE TO BE DEVELOPED DURING FUTURE DESIGN PHASES.
2. LWM DETAILS TO BE DEVELOPED DURING FUTURE DESIGN PHASES.
3. DEPTH OF CHANNEL MATERIAL IS APPROXIMATE AND WILL BE REVISED BASED ON RESULTS OF SCOUR ANALYSIS DURING FUTURE DESIGN PHASES.
4. STREAMBED MATERIAL GRADATION TO BE DETERMINED DURING FUTURE DESIGN PHASES.
5. CROSS SECTIONS FACE DOWNSTREAM.
6. SIZE AND NUMBER OF HABITAT BOULDERS TO BE DEVELOPED DURING FUTURE DESIGN PHASES

PRELIMINARY

DRAFT 30% SUBMITTAL - NOT FOR CONSTRUCTION

NO.	DATE	BY	ISSUE / DESCRIPTION

DESIGNED BY:	GLS
DRAWN BY:	GLS
APPROVED BY:	DJE
REVISION NO.:	---
DATE:	11/30/22

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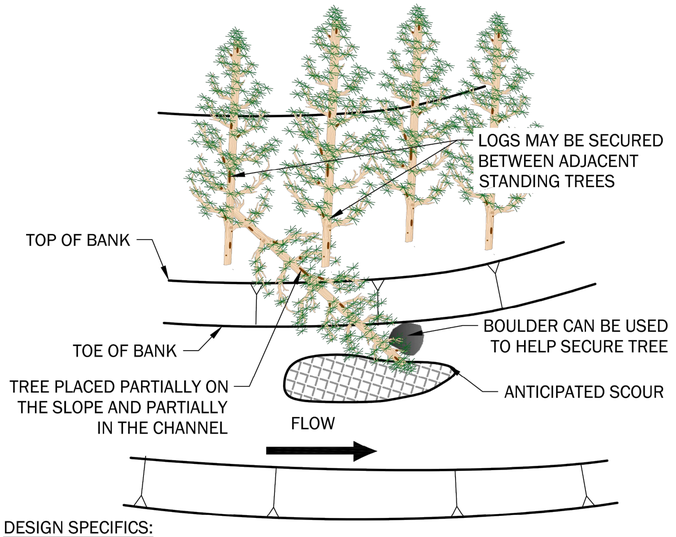
PREPARED FOR:
KPG PSOMAS, INC.

CITY OF DUVALL, 3RD AVENUE NE RECONSTRUCTION, COE CLEMMONS CREEK
DUVALL, WASHINGTON

PROPOSED STREAM TYPICAL SECTION

DRAWING NUMBER: **3.0**
SHEET: 61 OF 129

Plotted: 02/02/2023, 12:59 | gsparn \\geoengineers.com\wan\Projects\8\8258026\CAD\00\Culvert Crossing_Stream Restoration\v01_30_Percent\8258026_Sht 3_3.0 [Proposed Stream Typical Section].dwg



DESIGN SPECIFICS:

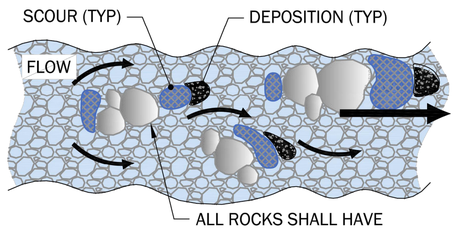
- SELECTIVELY PLACE STOCKPILED CONIFER LARGER THAN 18" DBH
- PLACE STEM WITHIN TREE STANDS THAT CAN PROVIDE RESISTANCE TO DRAG FORCES AND HELP SECURE THE TREE IN PLACE.
- TREE SHALL LAY PARTIALLY ON THE SLOPE AND PARTIALLY WITHIN THE CHANNEL.
- BOULDERS CAN BE USED TO SECURE THE TREE IN PLACE WITHIN THE CHANNEL.
- PREFERENCE FOR STOCKPILED TREES THAT CAN BE PULLED WITH ROOT MASS INTACT.

PURPOSE:

- CREATES LATER SCOUR POOL.
- CREATES DIVERSE FISH HABITAT.
- PROVIDES COVER.

PLACED WHOLE FALLEN TREE -

SCALE: NTS -



PURPOSE:

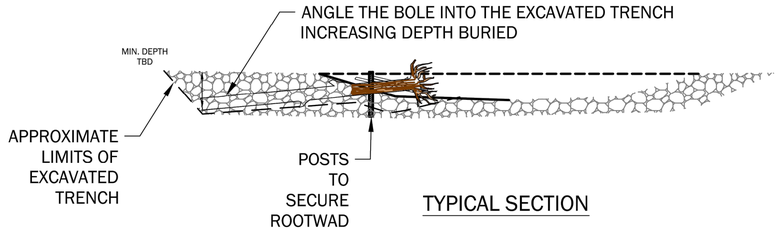
- CREATES IN-STREAM HABITAT DIVERSITY AND COMPLEXITY BY CREATING LOCAL AREAS OF SCOUR, DEPOSITION AND "POCKET WATER" (EDDYS) IN CHANNEL.
- GENERALLY INCREASES HYDRAULIC FRICTION AND CREATES VARIABLE VELOCITIES ACROSS CHANNEL.
- ENHANCES HABITAT FOR MACROINVERTEBRATES AND ALL LIFE STAGES OF FISH SPECIES.
- PROVIDES HABITAT ENHANCEMENT WITH RELATIVELY MINIMAL CHANNEL BED DISTURBANCE.

DESIGN SPECIFICS:

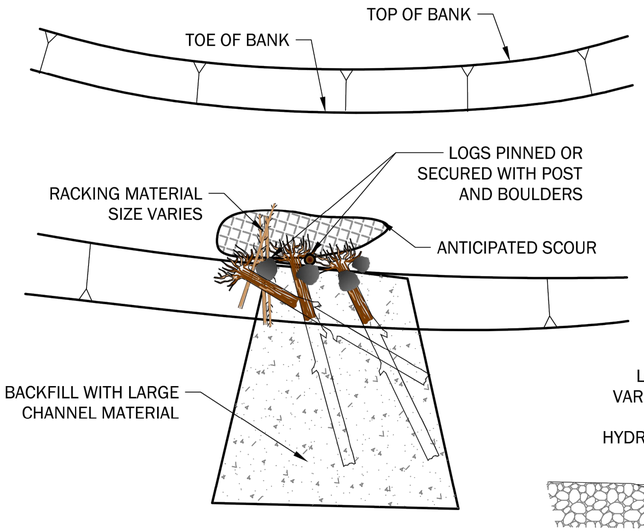
- PLACE BOULDERS ON CHANNEL BED. RELATIVELY LARGER ROCKS SHOULD BE USED IF PLACED DIRECTLY ON BED TO PREVENT ROLLING.

HABITAT BOULDER PLACEMENT -

SCALE: NTS -



TYPICAL SECTION



DESIGN SPECIFICS:

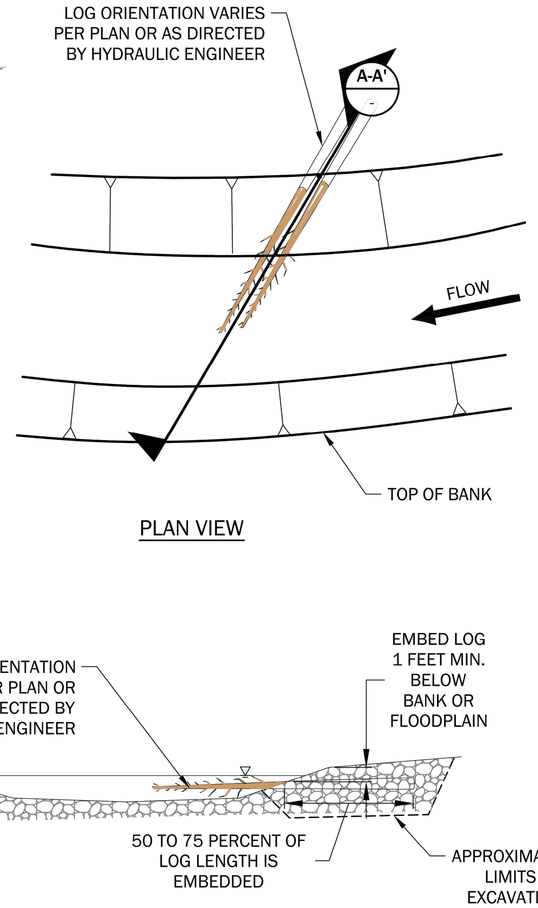
- PLACE ROOTWAD ON OR IN STREAM BED.
- TREES WITH BRANCHES OR MULTIPLE TRUNKS PREFERRED.
- SECURE KEY MEMBERS BY PINNING WITH VERTICAL POSTS, OR WITH BOULDERS.
- BALLAST SHALL BE INSTALLED ON KEY MEMBERS BURIED INTO BANK.
- INSTALL RACKING MEMBERS WHILE INSTALLING KEY MEMBERS.
- WEAVE RACKING MEMBERS AND SLASH (NOT SHOWN) INTO VOIDS BETWEEN KEY MEMBERS.
- RACKING AND SLASH QUANTITIES MAY VARY PER STRUCTURE.
- BACKFILL STRUCTURE IN 1FT MAX. LIFTS.
- COMPACT EACH LIFT FOLLOWING PLACEMENT.

PURPOSE:

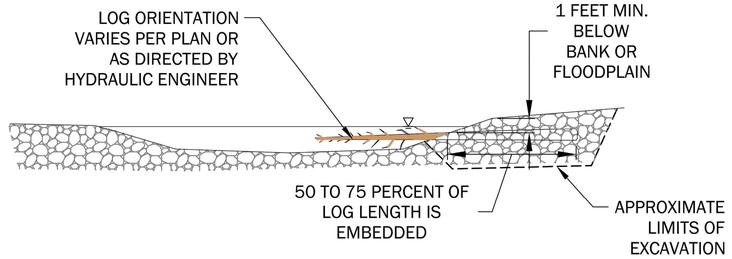
- CREATES LATER SCOUR POOL.
- CREATES DIVERSE FISH HABITAT.
- PROVIDES COVER.

HABITAT ROOTWADS -

SCALE: NTS -



PLAN VIEW



SECTION A-A'

DESIGN SPECIFICS:

- SWEEPERS MAY BE PLACED INDEPENDENTLY OR INCORPORATED INTO OTHER LARGE WOOD STRUCTURES.
- TREES WITH BRANCHES OR MULTIPLE TRUNKS PREFERRED.
- THE DESIGN ENGINEER SHALL MAINTAIN THE ABILITY TO MAKE ADJUSTMENT TO THE PROPOSED STRUCTURE IF SITE CONDITIONS WARRANT.
- LOG TABLE FOR MATERIAL SIZES AND QUANTITIES TO BE DEVELOPED IN FUTURE DESIGN PHASES.
- LOGS CAN BE EXCAVATED OR PLACED OR DRIVEN.

PURPOSE:

- REDIRECTS FLOW.
- CREATES SCOUR.
- ENCOURAGES GRAVEL DEPOSITION.

SWEEPER LOG -

SCALE: NTS -

PRELIMINARY

DRAFT 30% SUBMITTAL - NOT FOR CONSTRUCTION

NO.	DATE	BY	ISSUE / DESCRIPTION

DESIGNED BY:	GLS
DRAWN BY:	GLS
APPROVED BY:	DJE
REVISION NO.:	----
DATE:	11/30/22

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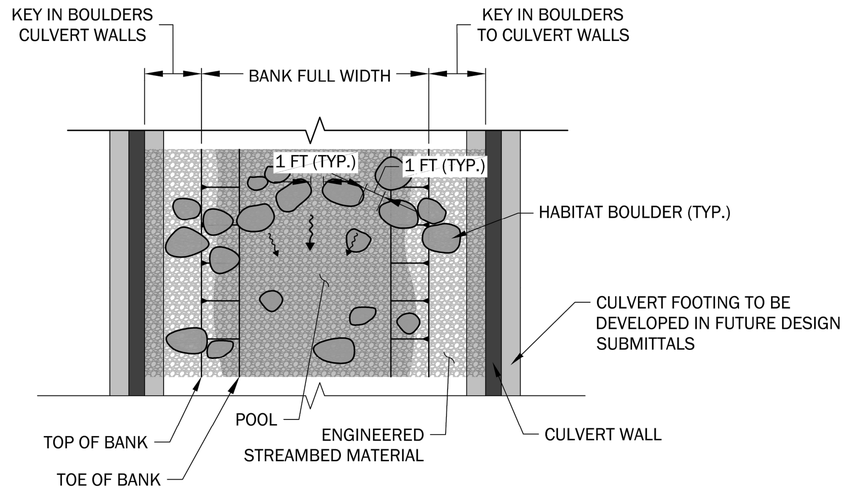
PREPARED FOR:
KPG PSOMAS, INC.

CITY OF DUVALL, 3RD AVENUE NE RECONSTRUCTION, COE CLEMMONS CREEK
DUVALL, WASHINGTON

STREAM AND HABITAT FEATURE DETAILS

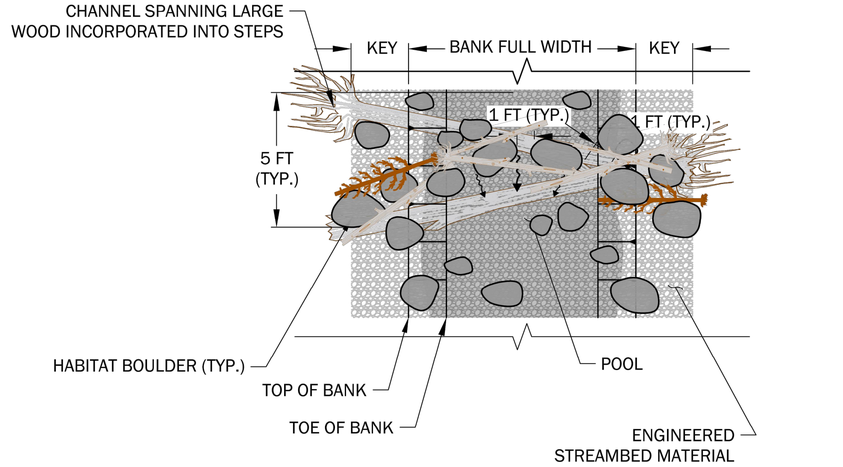
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SHEET: 62 OF 129

Plotted: 02/02/2023, 12:59 | gspann \\geoengineers.com\wani\Projects\8\82582026\CAD\00\Culvert Crossing_Stream Restoration\v01_30_Percent\82582600_Sht 4_4.0 [Stream and Habitat Feature Details].dwg



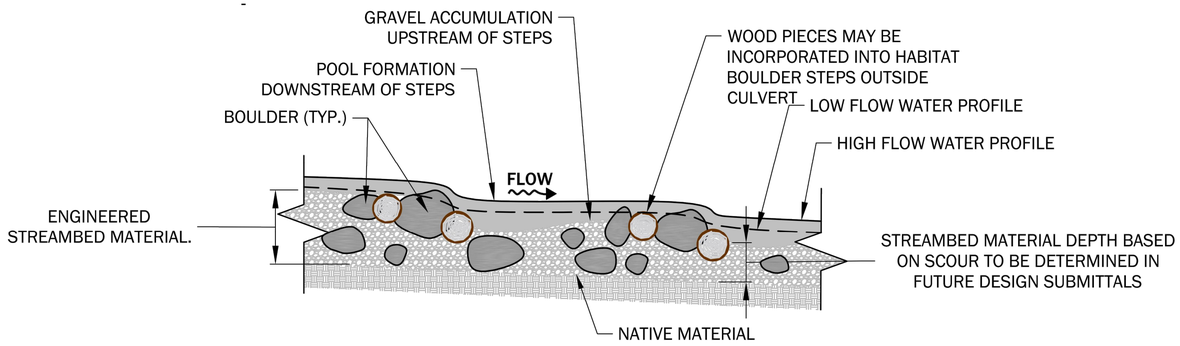
TYPICAL BOULDER STEP POOL PLAN VIEW WITHIN CULVERT -

SCALE: NTS



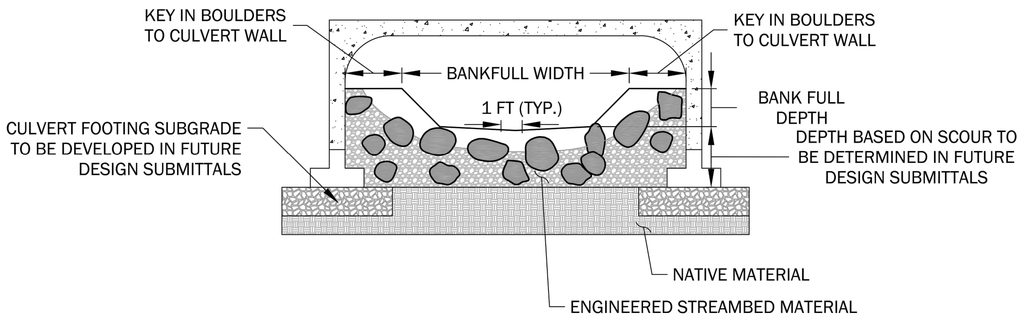
TYPICAL WOOD AND BOULDER STEP POOL PLAN VIEW OUTSIDE CULVERT -

SCALE: NTS



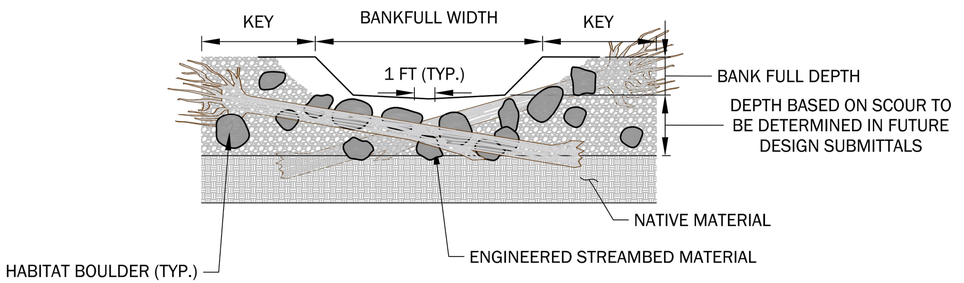
TYPICAL BOULDER STEP POOL PROFILE VIEW -

SCALE: NTS



TYPICAL BOULDER STEP POOL SECTION VIEW WITHIN CULVERT -

SCALE: NTS



TYPICAL WOOD AND BOULDER STEP POOL SECTION VIEW OUTSIDE OF CUVLERT -

SCALE: NTS

PRELIMINARY

DRAFT 30% SUBMITTAL - NOT FOR CONSTRUCTION

NO.	DATE	BY	ISSUE / DESCRIPTION

DESIGNED BY:	GLS
DRAWN BY:	GLS
APPROVED BY:	DJE
REVISION NO.:	---
DATE:	11/30/22

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PREPARED FOR:

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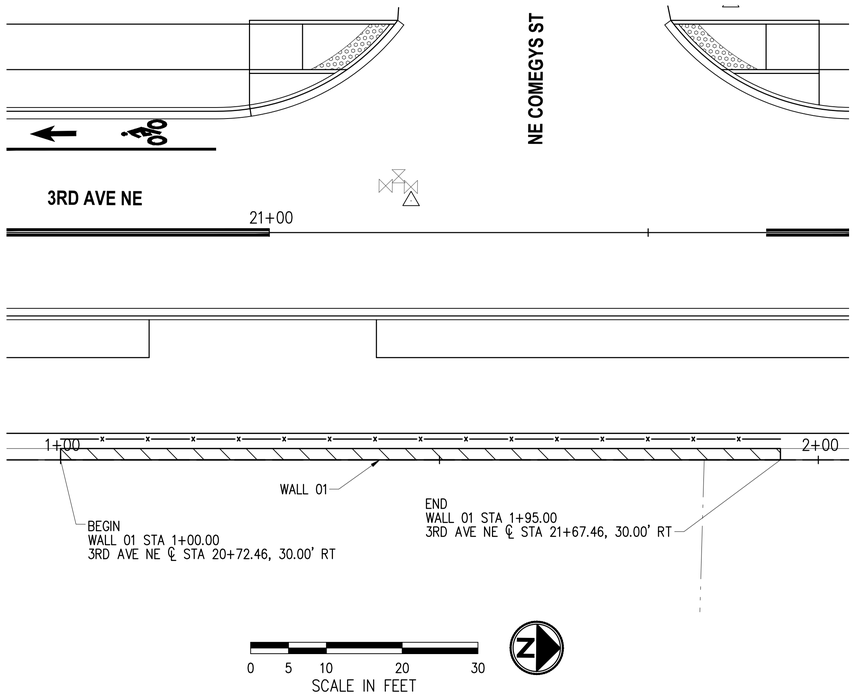
CITY OF DUVALL, 3RD AVENUE NE RECONSTRUCTION, COE CLEMMONS CREEK
DUVALL, WASHINGTON

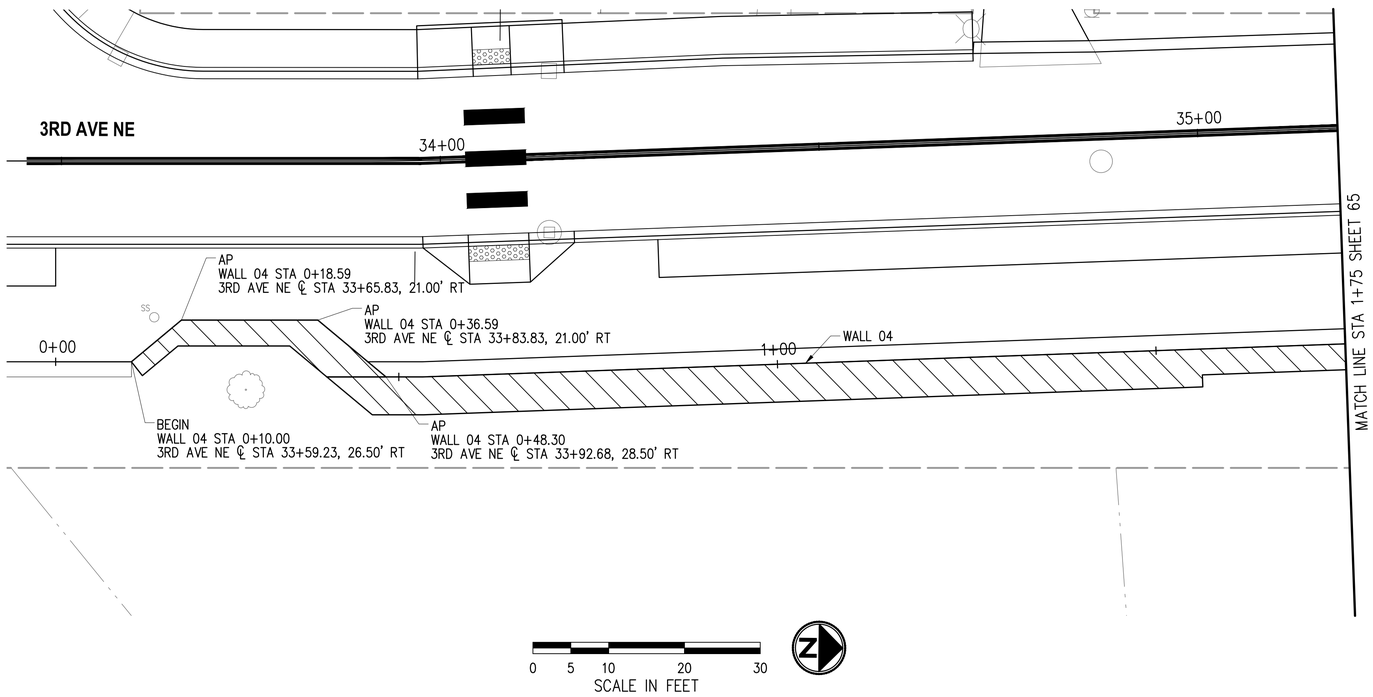
STREAM AND HABITAT FEATURE DETAILS

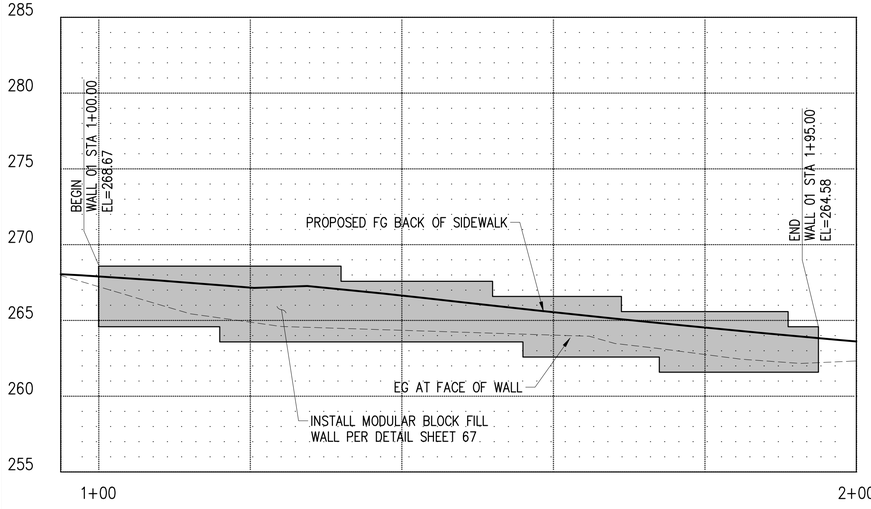
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SHEET: 63 OF 129

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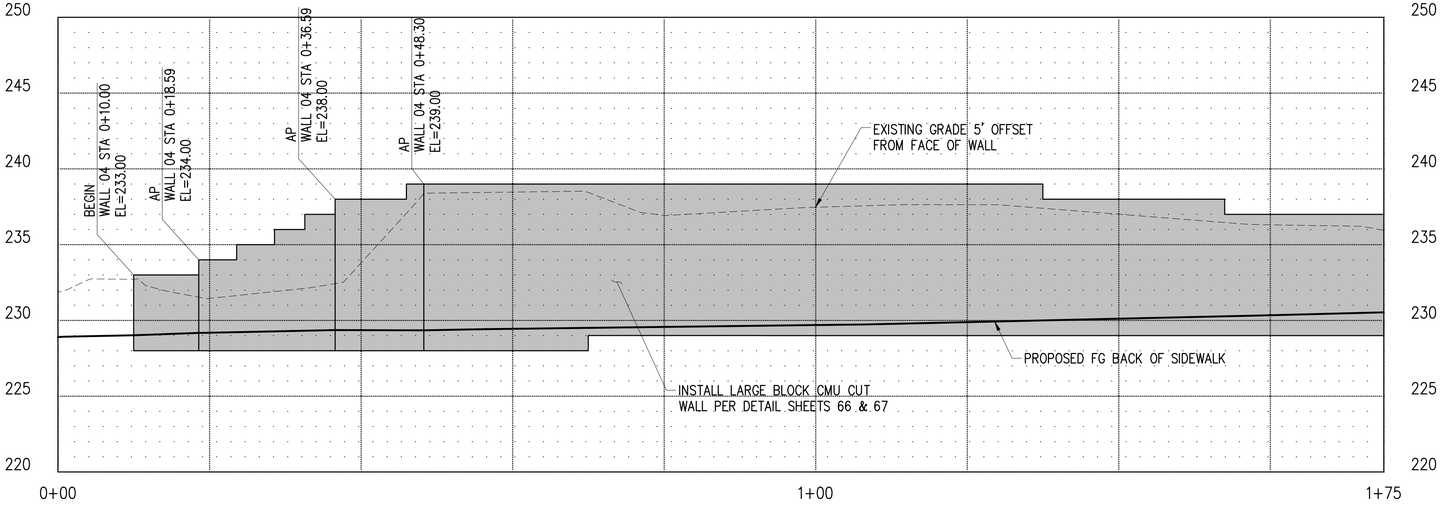






WALL 01 - PROFILE

PROFILE SHOWN AT BACK OF WALL



WALL 04 - PROFILE

PROFILE SHOWN AT FACE OF WALL

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078WALL01.dwg	
FILENAME	
JRW	06/2023
DESIGNED BY	DATE
JRW	06/2023
DRAWN BY	DATE
OBP	06/2023
CHECKED BY	DATE

OLIVIA B. PARASCHIV — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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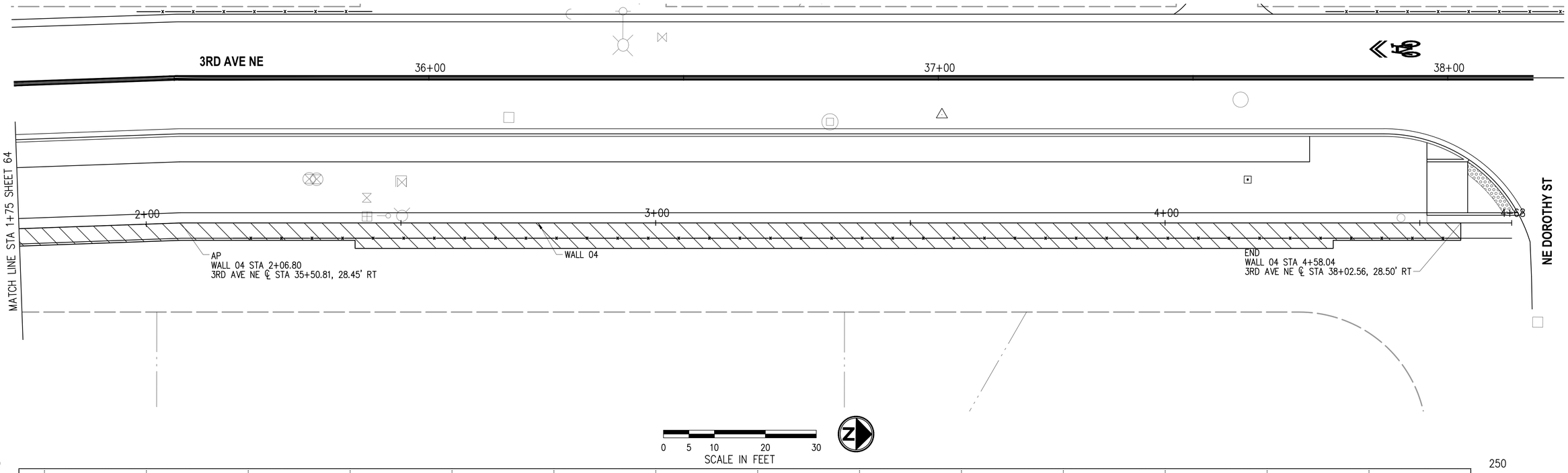
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RETAINING WALL PLAN & PROFILE
WALL 01 & 04

KPG PROJECT No. 21078

SHT 64 OF 129

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WALL 04 - PROFILE

PROFILE SHOWN AT FACE OF WALL

NO.	DATE	BY	APPR.	REVISIONS

Approved By	
ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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DRAWN BY	DATE
OBP	06/2023
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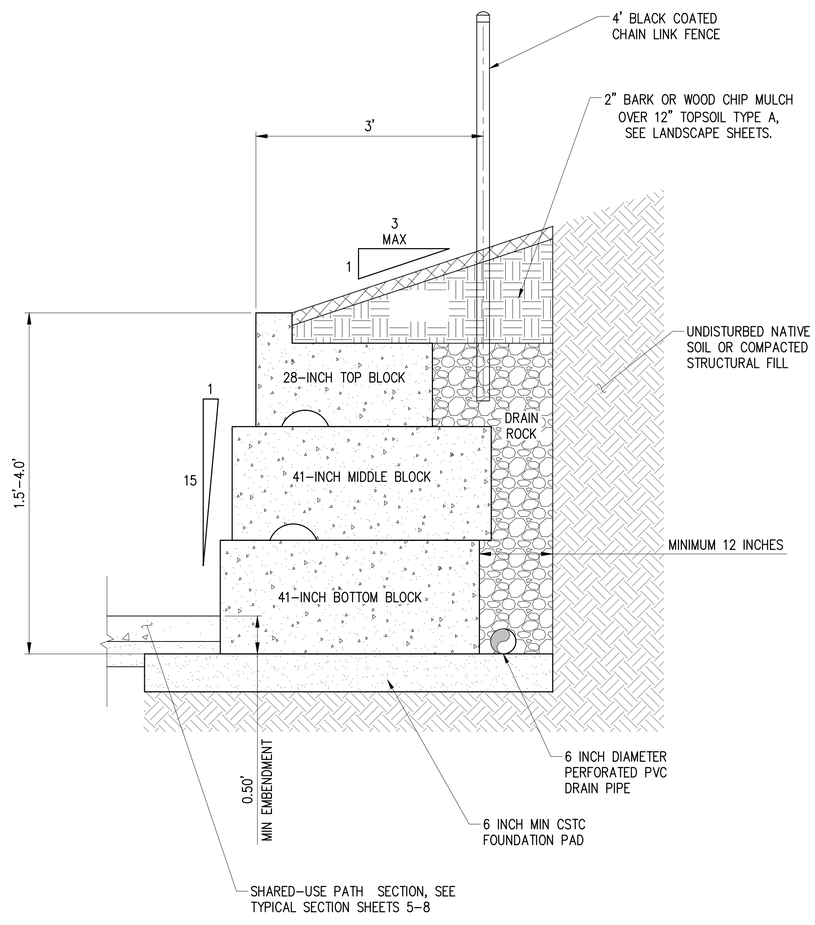
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RETAINING WALL PLAN & PROFILE
WALL 04

KPG PROJECT No. 21078

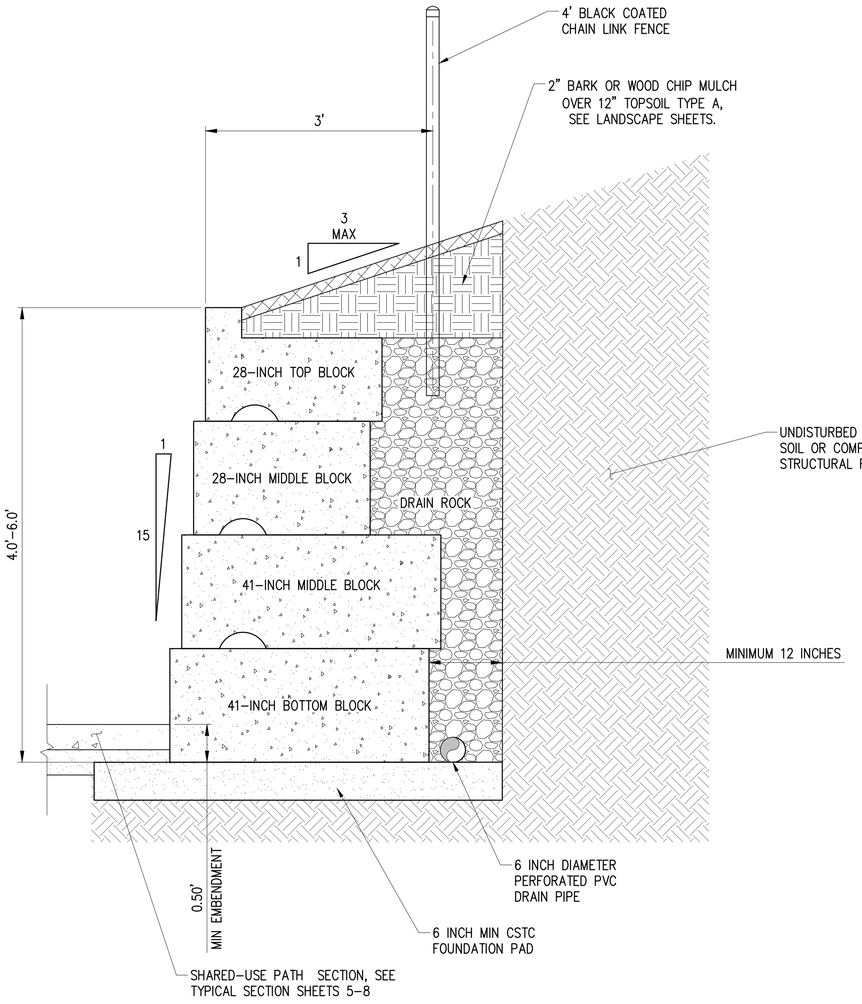
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LARGE BLOCK CMU WALL SECTION

NTS



LARGE BLOCK CMU WALL SECTION

NTS

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Approved By

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PROJECT ENGINEER	DATE

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AAE	06/2023
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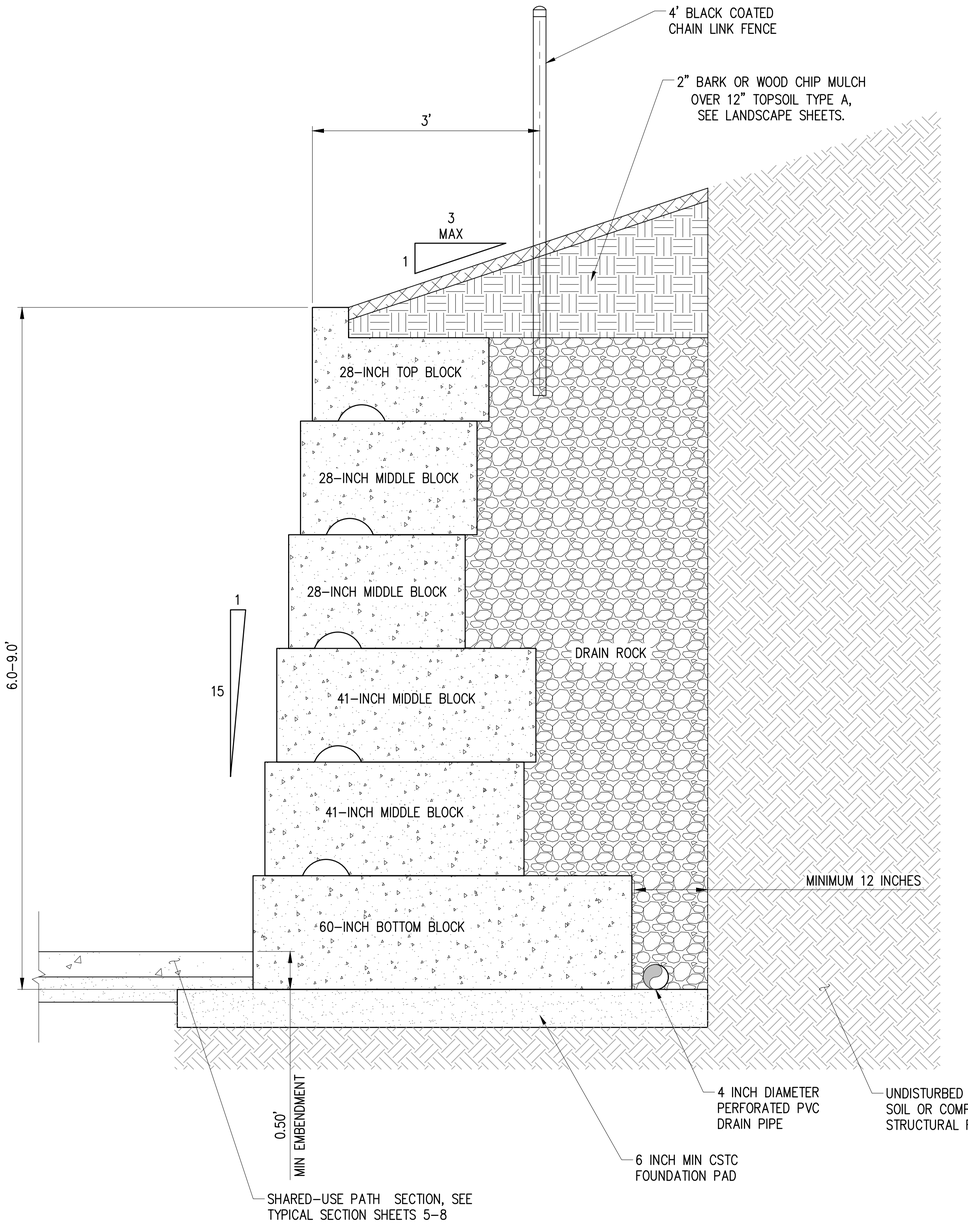
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RETAINING WALL DETAILS

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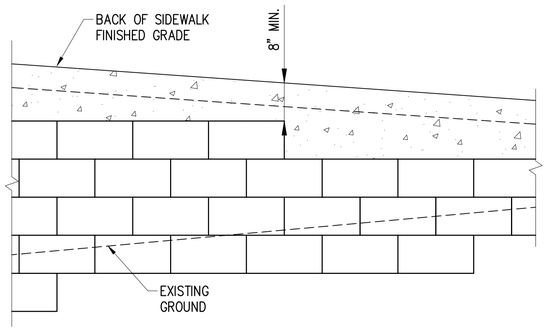
SHT 66 OF 129

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LARGE BLOCK CMU WALL SECTION

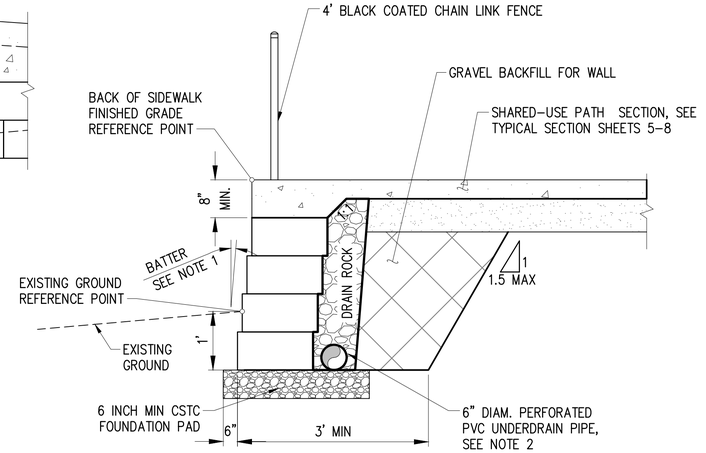
NTS



ELEVATION

NOTES:

1. WALL BATTER VARIES PER WALL MANUFACTURER.
2. CONNECT WALL UNDERDRAIN PIPES TO STORM DRAIN STRUCTURES AT THE LOCATIONS INDICATED ON THE PLANS. (CONNECTION PIPES FROM WALLS TO STRUCTURES SHALL BE 6" PERFORATED POLYVINYL CHLORIDE (PVC) OR PERFORATED CORRUGATED POLYETHYLENE (CPE)). UNDERDRAINS TO BE WRAPPED IN CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE.



SECTION

MODULAR BLOCK FILL WALL SECTION

NTS

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078WALL-DET.dwg	
FILENAME	
JRW	06/2023
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AAE	06/2023
DRAWN BY	DATE
OBP	06/2023
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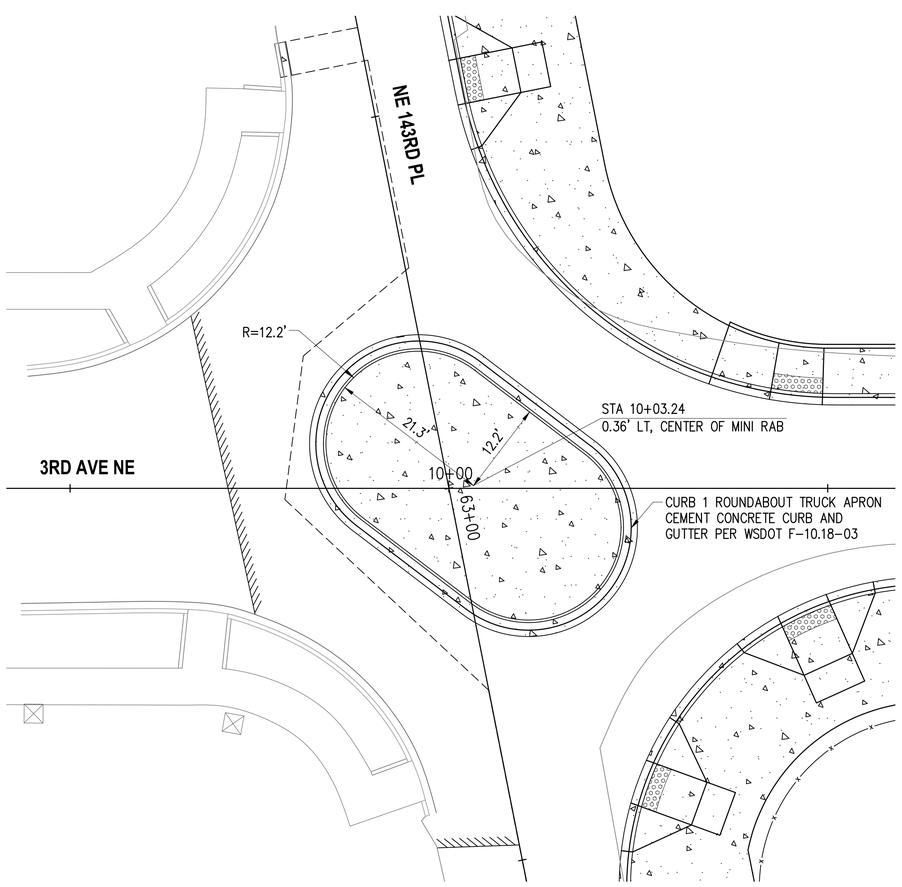
City of Duvall
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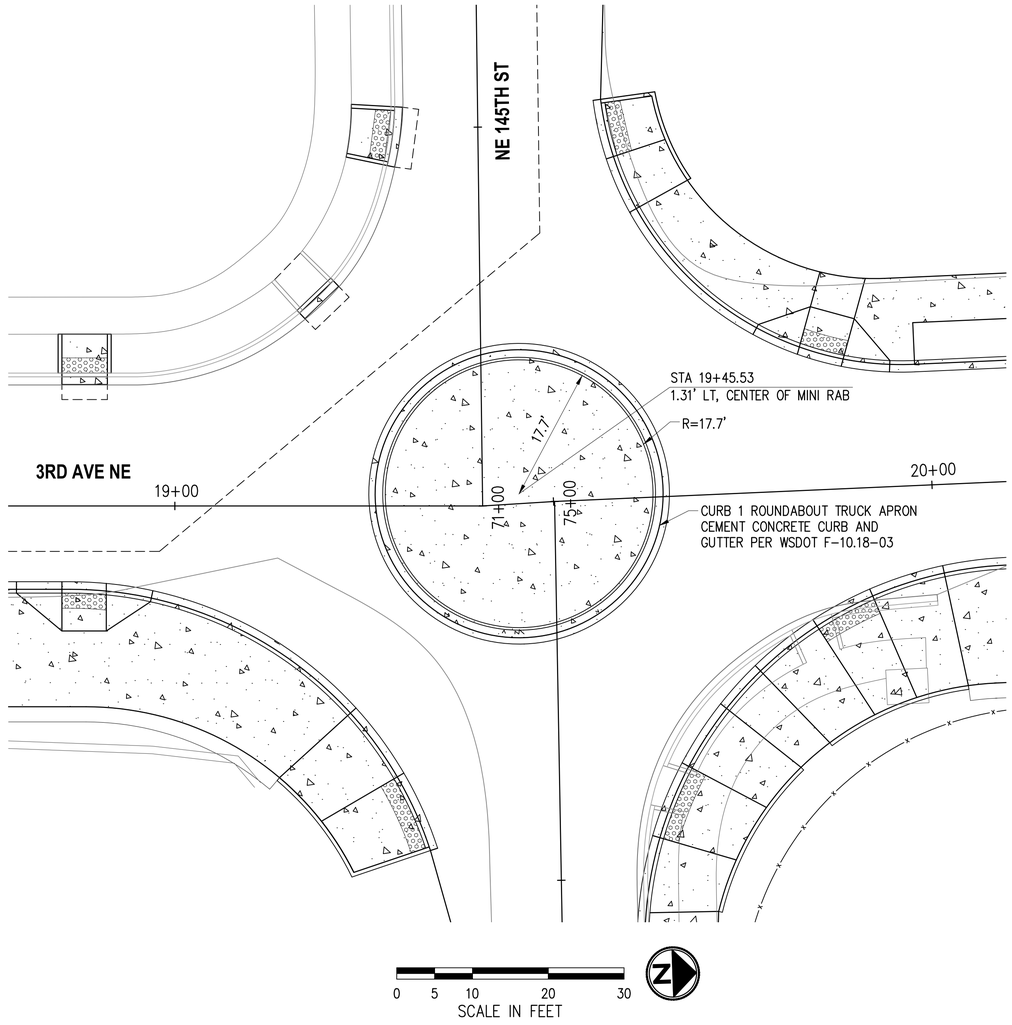
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

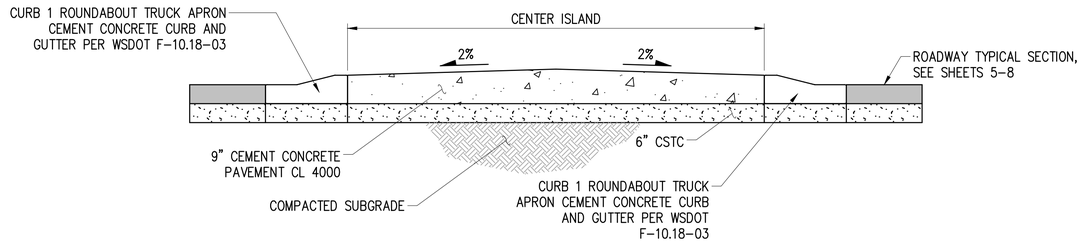
RETAINING WALL DETAILS

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MINI ROUNDABOUT TYPICAL SECTION

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078RAB-DET.dwg	
FILENAME	
JRW	06/2023
DESIGNED BY	DATE
AAE	06/2023
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

MINI ROUNDABOUT DETAILS

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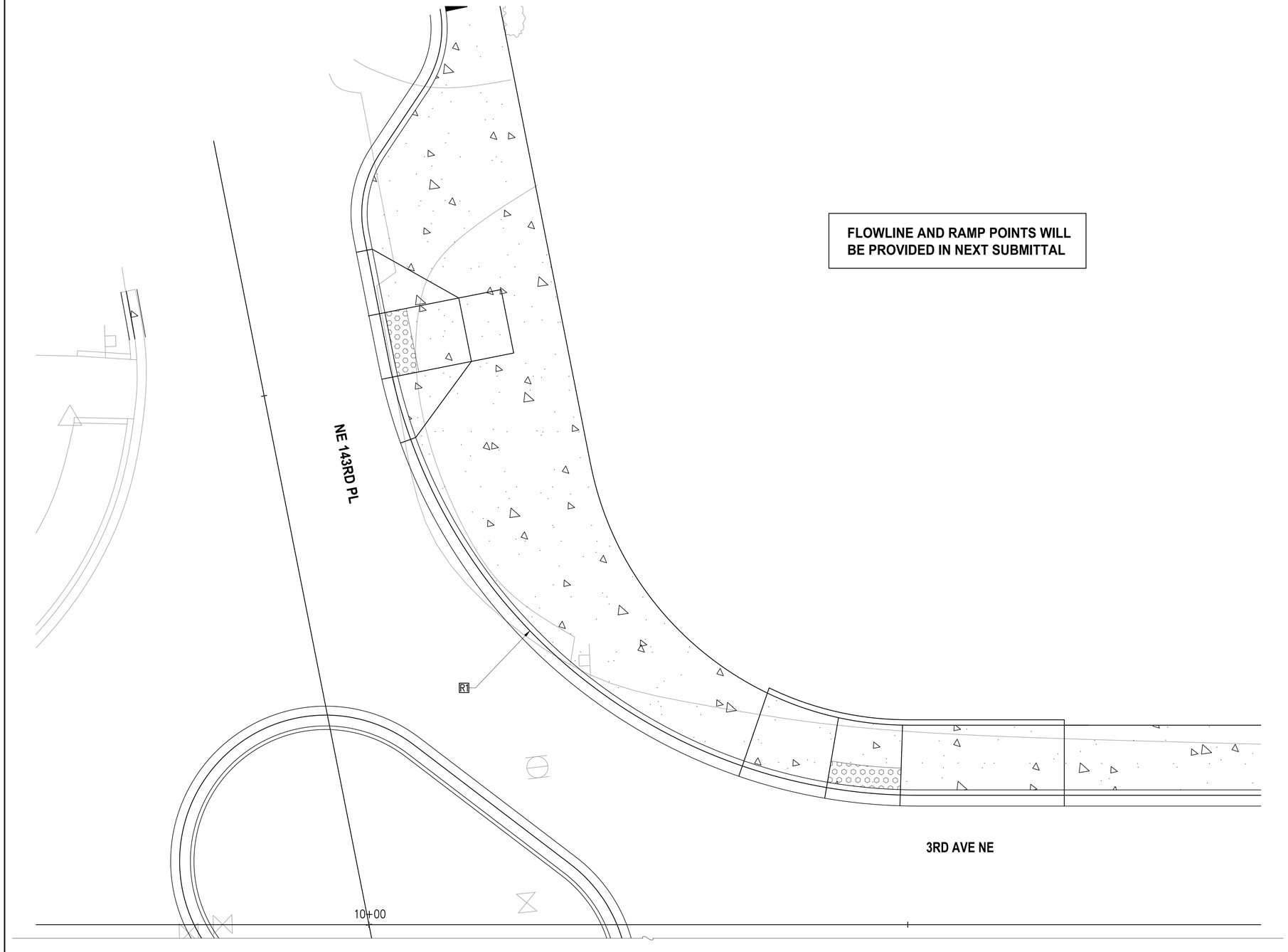
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GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R1	78°46'13"	50.00'	41.05'	68.74'



0 2.5 5 10 15
SCALE IN FEET

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

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Approved By

ENGINEERING MANAGER	DATE
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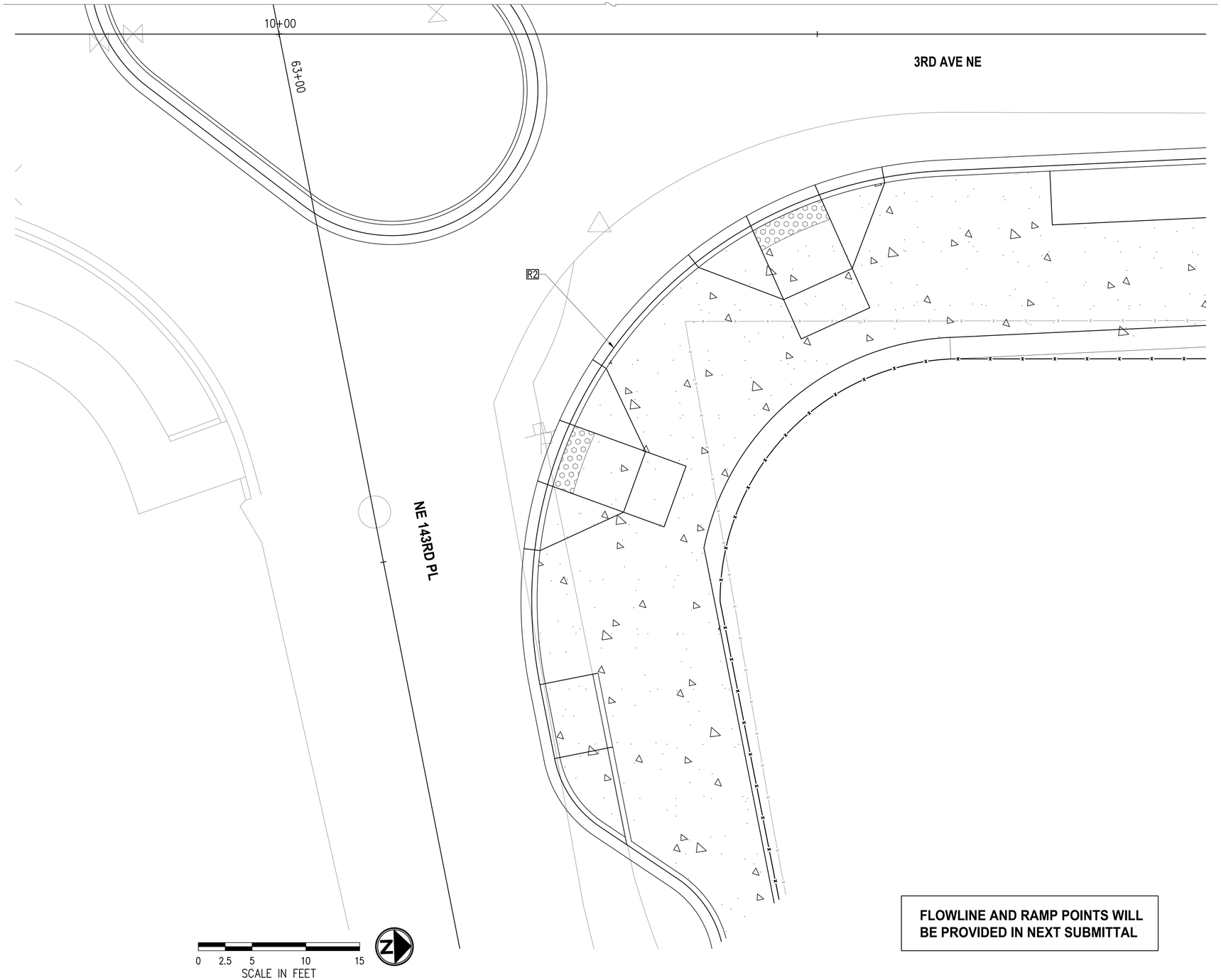
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
NE 143RD PLACE
(WEST SIDE)

KPG PROJECT No. 21078 | SHT 69 OF 129



GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R2	98°32'34"	40.00'	46.46'	68.80'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078INT01.dwg	
FILENAME	
JRW	06/2023
DESIGNED BY	DATE
AAE	06/2023
DRAWN BY	DATE
OBP	06/2023
CHECKED BY	DATE

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3RD AVENUE NE RECONSTRUCTION

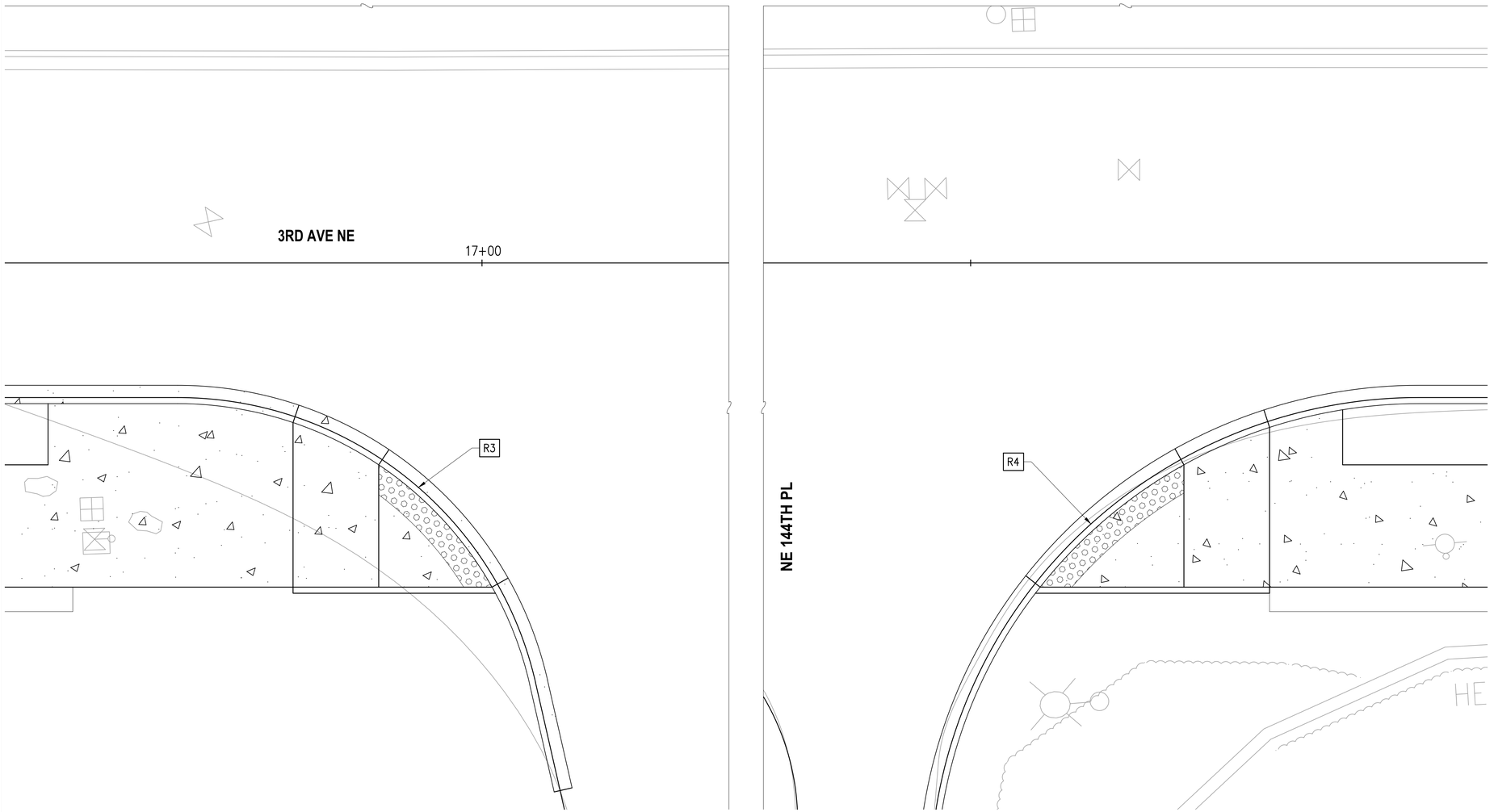
INTERSECTION & CURB RAMP PLAN
NE 143RD PLACE
(EAST SIDE)

KPG PROJECT No. 21078 | SHT 70 OF 129

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GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.



CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R3	77°09'58"	30.00'	23.93'	40.40'
R4	85°16'35"	40.00'	36.83'	59.53'

0 2.5 5 10 15
SCALE IN FEET

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

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NO.	DATE	BY	APPR.	REVISIONS

Approved By

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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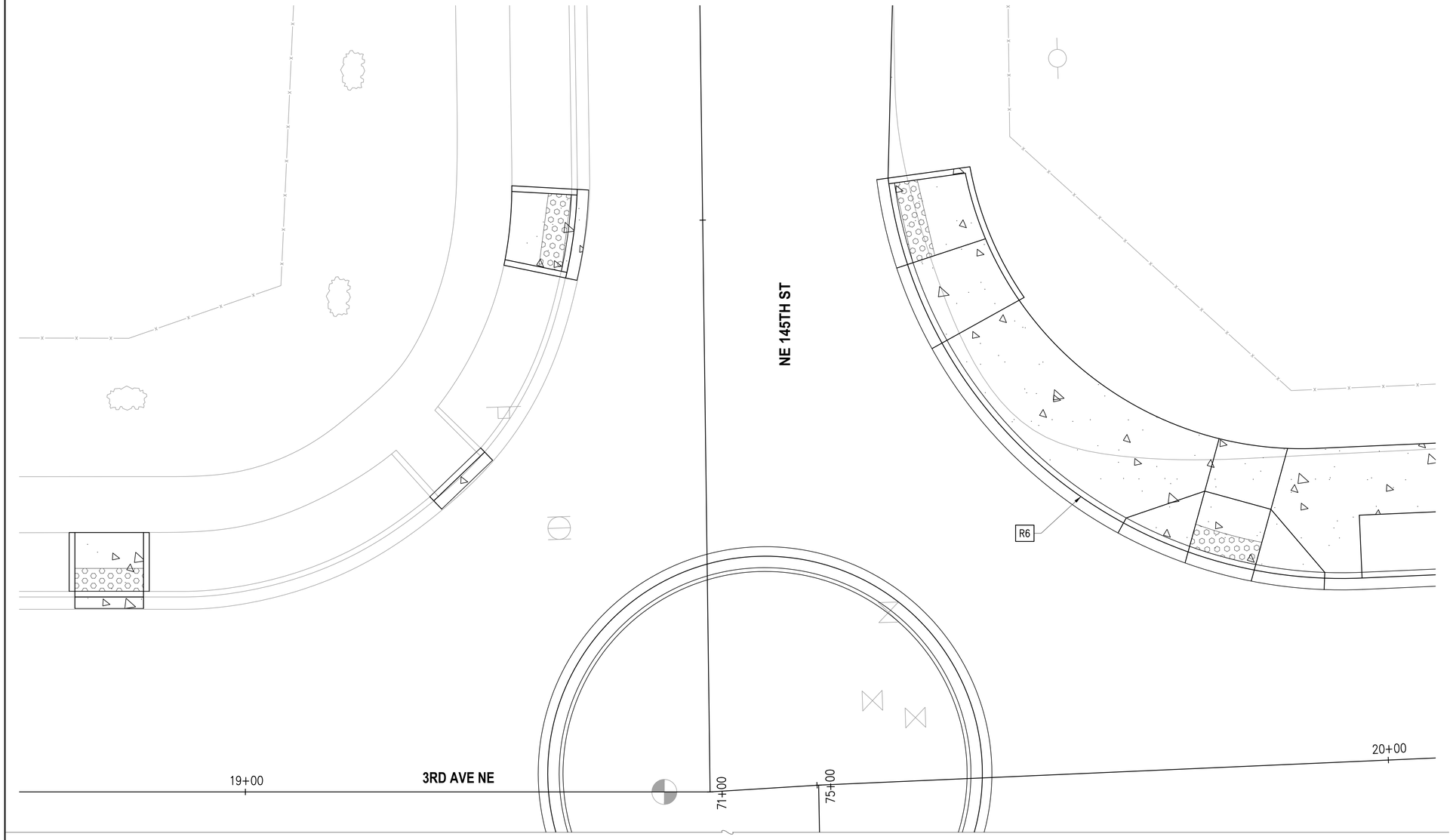
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
NE 144TH PLACE

KPG PROJECT No. 21078

SHT 71 OF 129



GENERAL NOTES

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2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R6	85°20'49"	40.00'	36.88'	59.58'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

DETECTABLE WARNING SURFACE

CEMENT CONCRETE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078INT01.dwg

FILENAME	
JRW	06/2023
DESIGNED BY	DATE
AAE	06/2023
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OBP	06/2023
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OLIVIA B. PARASCHIN — STATE OF WASHINGTON — 41380 — REGISTERED PROFESSIONAL ENGINEER

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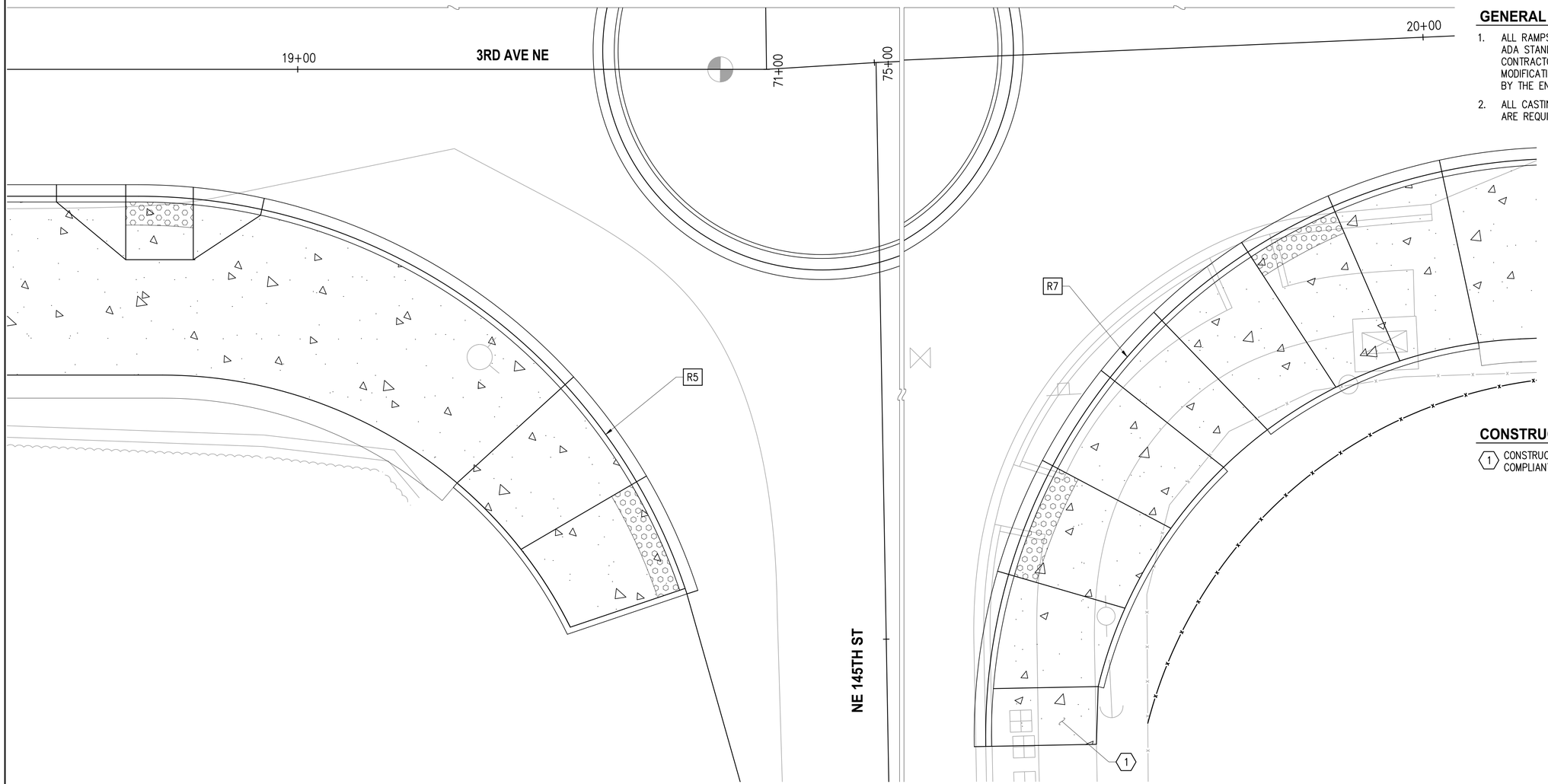
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
NE 145TH STREET
(WEST SIDE)

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SHT 72 OF 129

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GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CONSTRUCTION NOTES

(1) CONSTRUCT CEMENT CONC TRANSITION PANEL, MAY NOT BE ADA COMPLIANT.

CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R5	71°54'39"	50.00'	36.27'	62.75'
R7	88°34'17"	50.00'	48.77'	77.29'

0 2.5 5 10 15
SCALE IN FEET

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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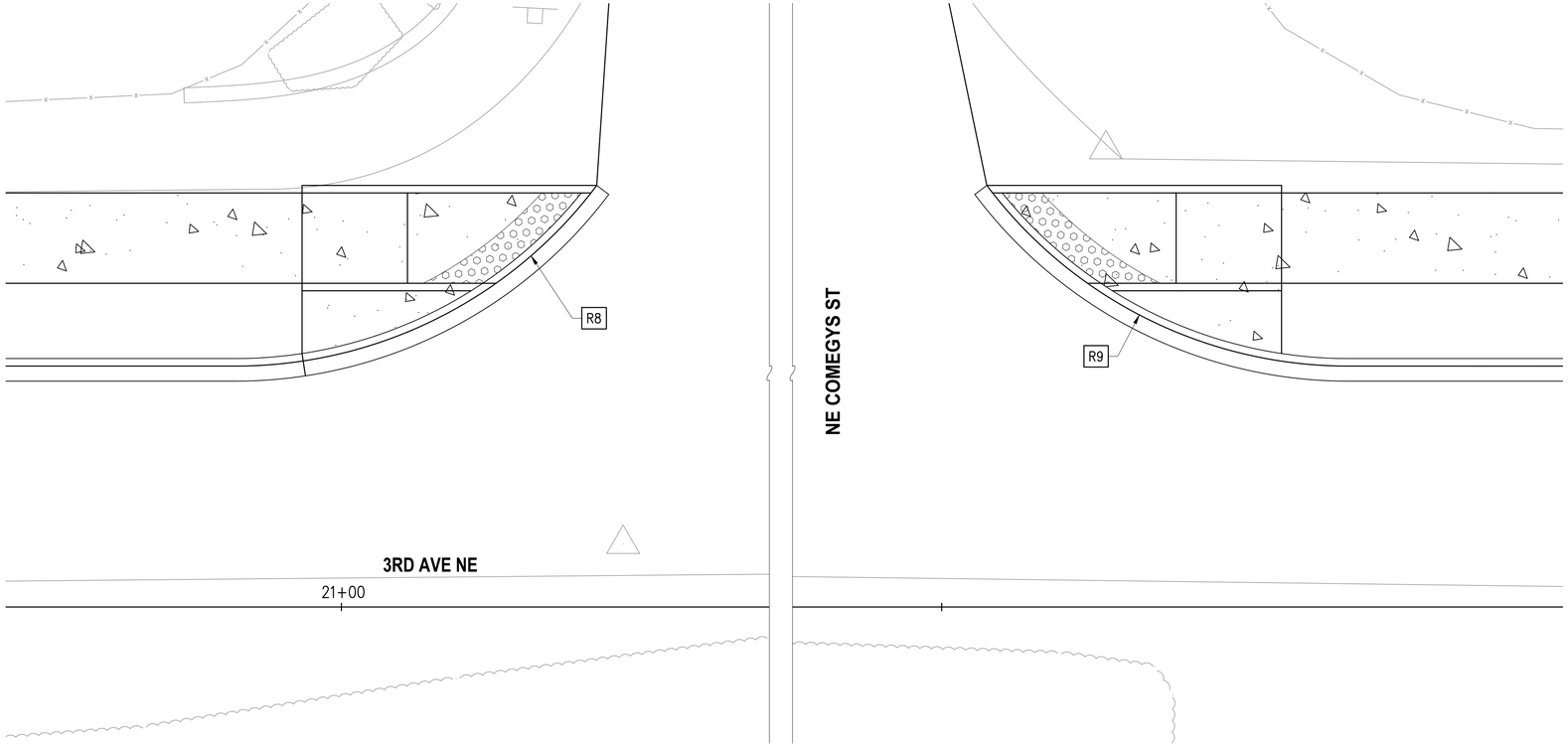
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INTERSECTION & CURB RAMP PLAN
NE 145TH STREET
(EAST SIDE)

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GENERAL NOTES

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2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R8	53°07'48"	30.00'	15.00'	27.82'
R9	53°07'48"	30.00'	15.00'	27.82'

0 2.5 5 10 15
SCALE IN FEET

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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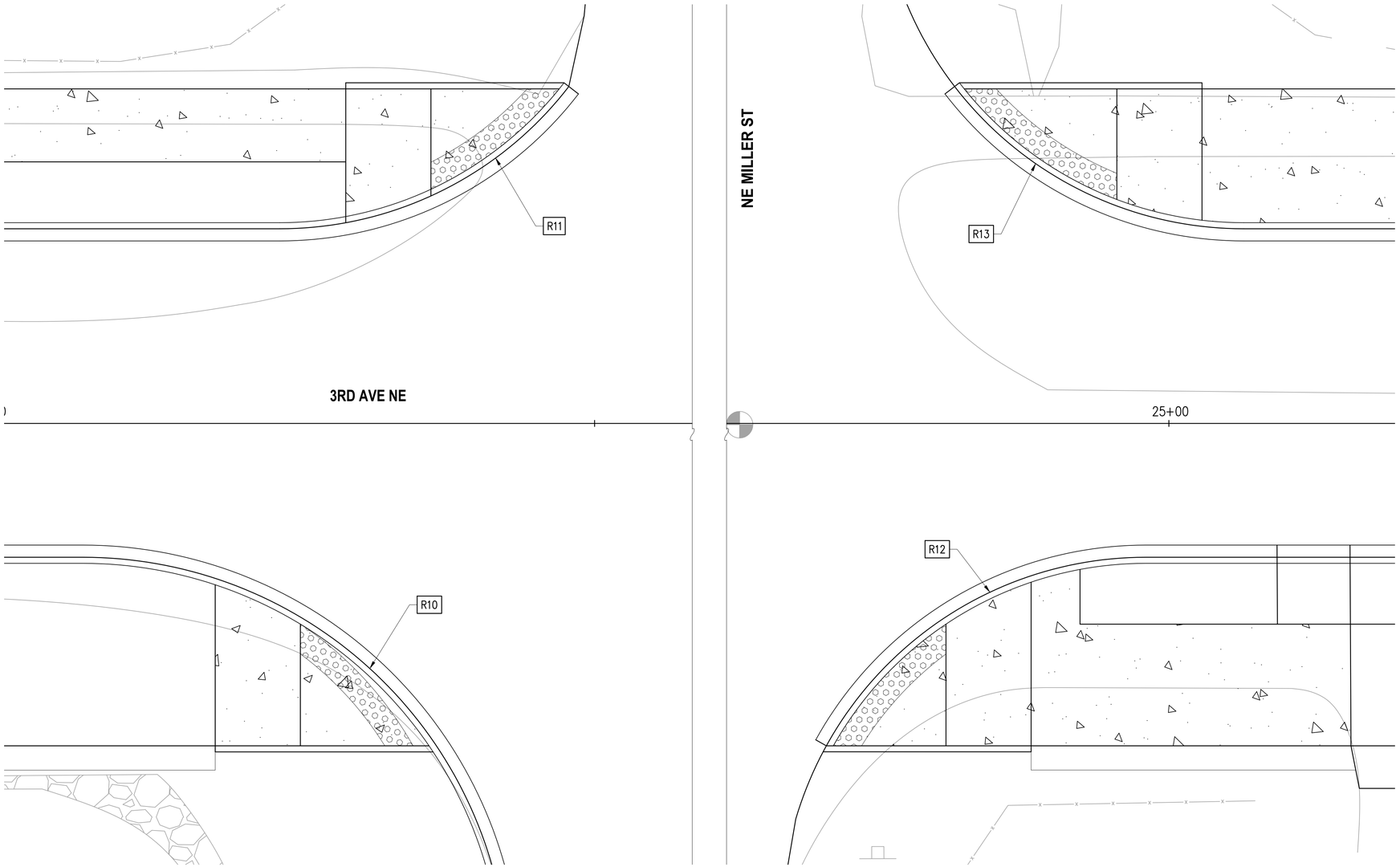
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NE COMEGYS STREET

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GENERAL NOTES

1. ALL RAMPS AND SIDEWALKS SHALL BE COMPLIANT WITH CURRENT ADA STANDARDS. COMPLIANCE SHALL BE CHECKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ANY GRADING MODIFICATIONS REQUIRED FOR ADA COMPLIANCE SHALL BE APPROVED BY THE ENGINEER.
2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.



CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R10	76°54'26"	35.00'	27.79'	46.98'
R11	52°23'54"	30.00'	14.76'	27.44'
R12	60°33'33"	30.00'	17.52'	31.71'
R13	52°23'54"	30.00'	14.76'	27.44'

0 2.5 5 10 15
SCALE IN FEET

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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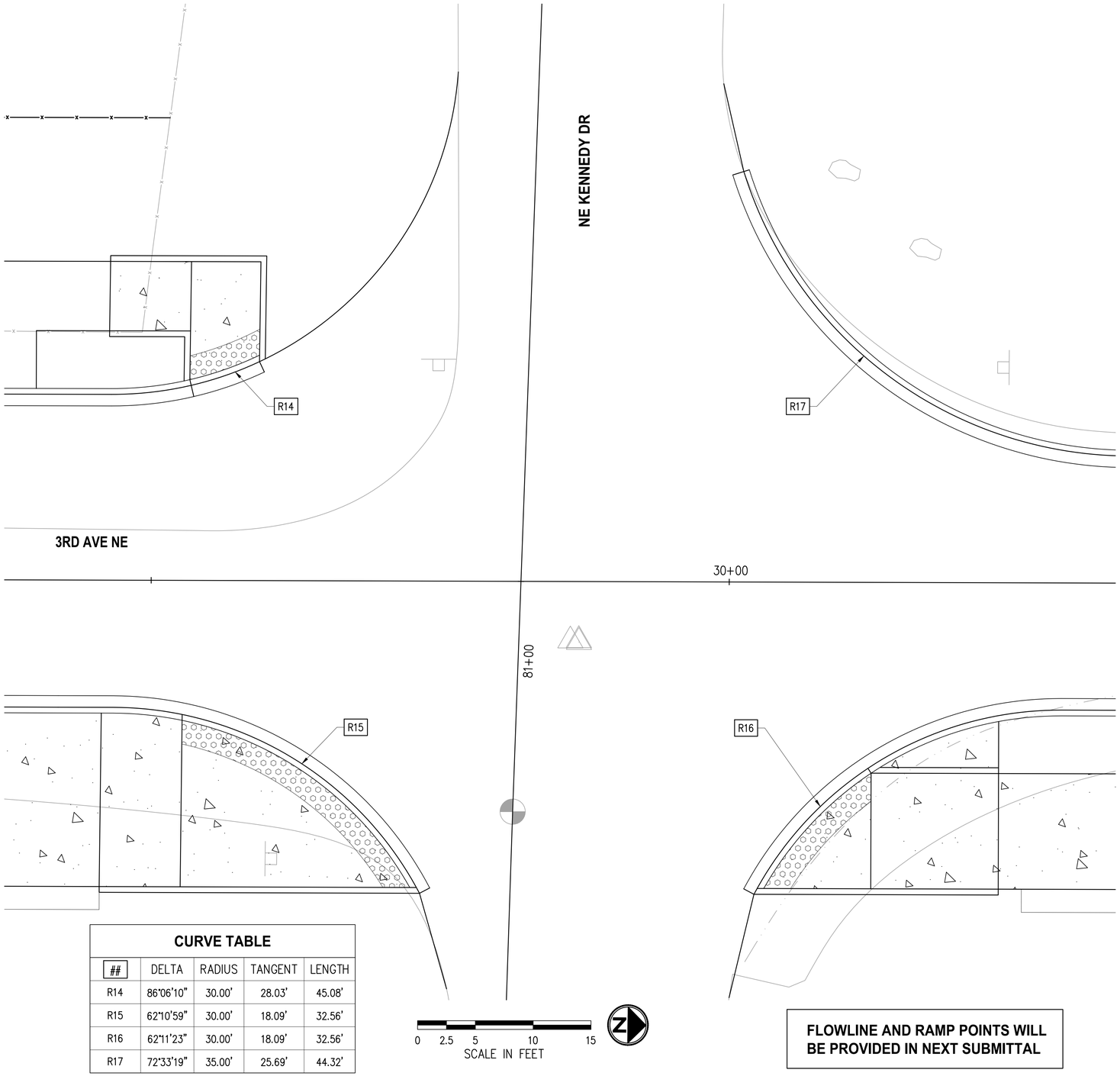
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INTERSECTION & CURB RAMP PLAN
NE MILLER STREET

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GENERAL NOTES

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2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CURVE TABLE

##	DELTA	RADIUS	TANGENT	LENGTH
R14	86°06'10"	30.00'	28.03'	45.08'
R15	62°10'59"	30.00'	18.09'	32.56'
R16	62°11'23"	30.00'	18.09'	32.56'
R17	72°33'19"	35.00'	25.69'	44.32'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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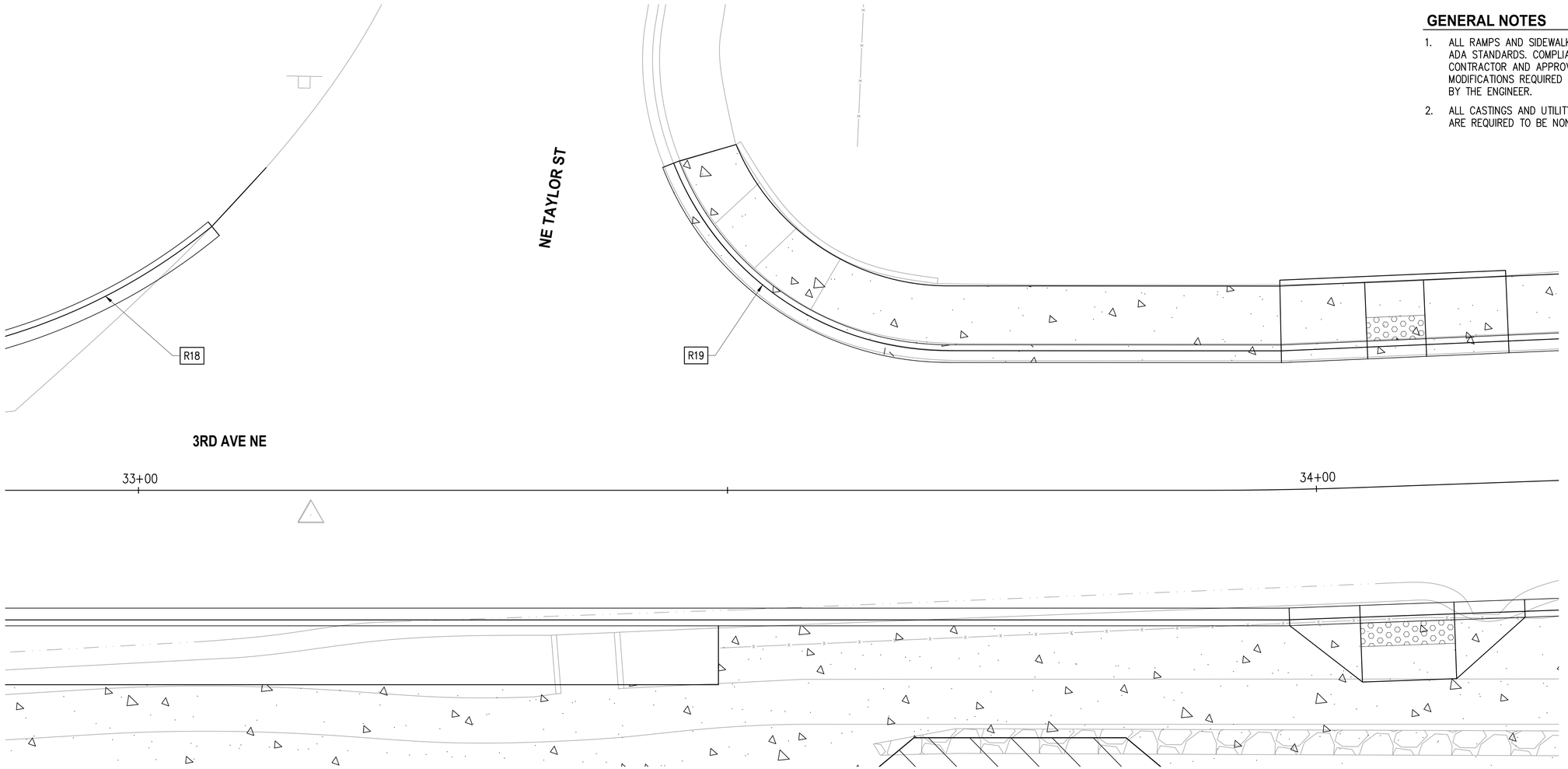
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
NE KENNEDY DRIVE

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2. ALL CASTINGS AND UTILITY COVERS LOCATED WITHIN THE PAR ARE ARE REQUIRED TO BE NON-SLIP.

CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R18	39°27'50"	50.00'	17.93'	34.44'
R19	68°39'18"	25.00'	17.07'	29.96'

0 2.5 5 10 15
SCALE IN FEET

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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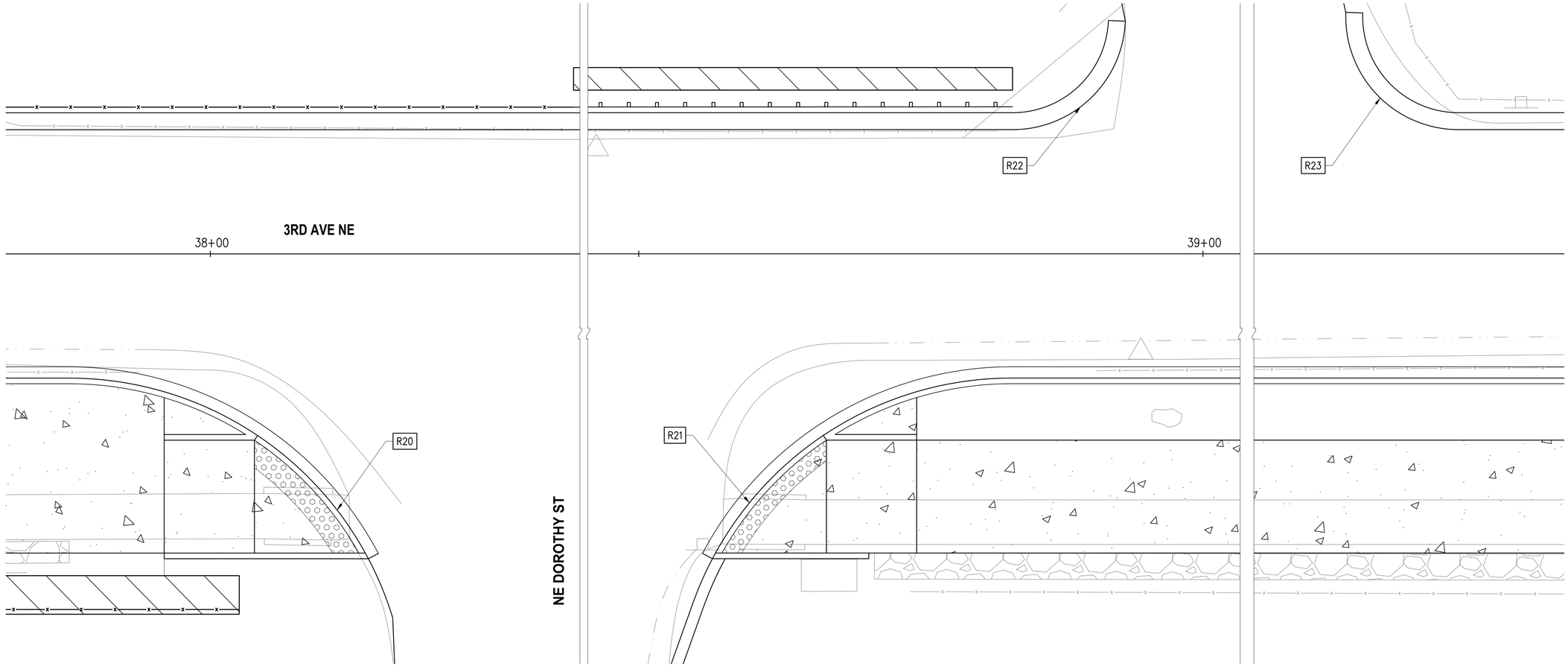
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
NE TAYLOR STREET

KPG PROJECT No. 21078

SHT 77 OF 129



CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R20	62°10'55"	30.00'	18.09'	32.56'
R21	62°10'55"	30.00'	18.09'	32.56'
R22	87°44'41"	10.00'	9.61'	15.31'
R23	92°15'19"	10.00'	10.40'	16.10'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

GENERAL NOTES

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LEGEND

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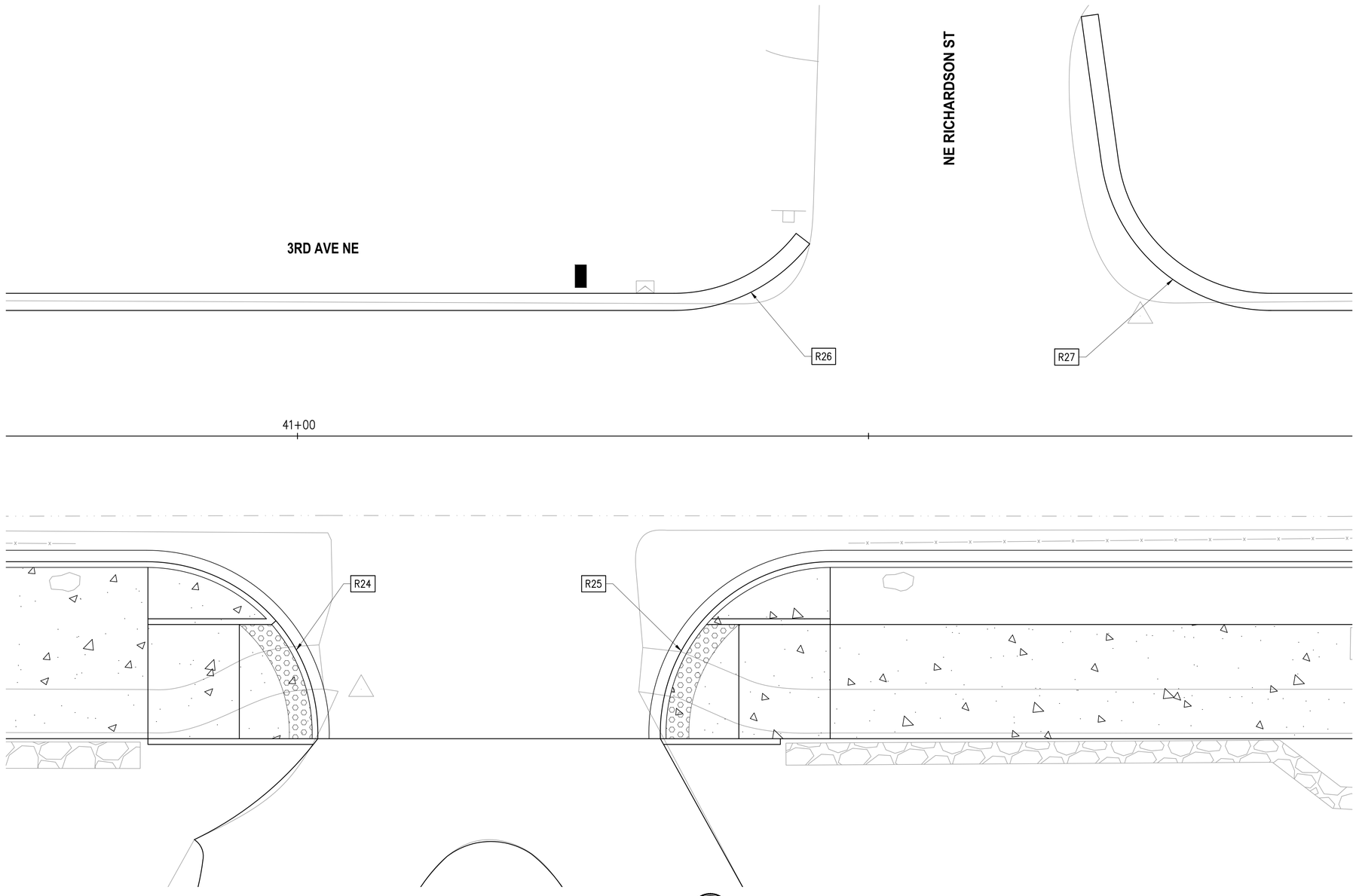
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

INTERSECTION & CURB RAMP PLAN
SE DORTHY STREET

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CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R24	91°54'37"	15.00'	15.51'	24.06'
R25	91°54'37"	15.00'	15.51'	24.06'
R26	52°19'29"	15.00'	7.37'	13.70'
R27	82°07'50"	15.00'	13.07'	21.50'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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NE RICHARDSON STREET

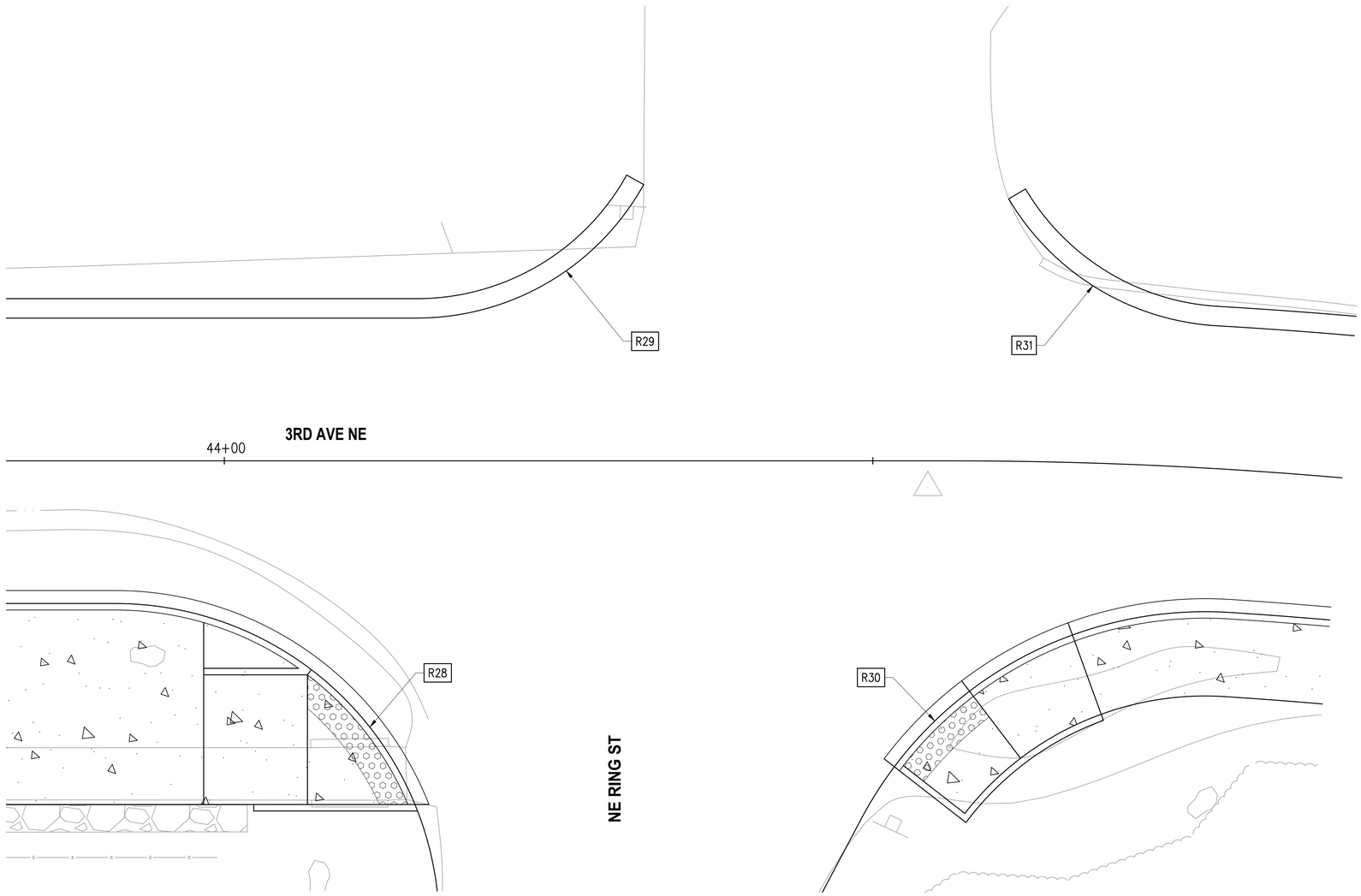
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CURVE TABLE				
##	DELTA	RADIUS	TANGENT	LENGTH
R28	67°39'59"	25.00'	16.76'	29.53'
R29	60°59'25"	20.00'	11.78'	21.29'
R30	56°41'37"	30.00'	16.18'	29.68'
R31	56°06'54"	20.00'	10.66'	19.59'

FLOWLINE AND RAMP POINTS WILL BE PROVIDED IN NEXT SUBMITTAL

LEGEND

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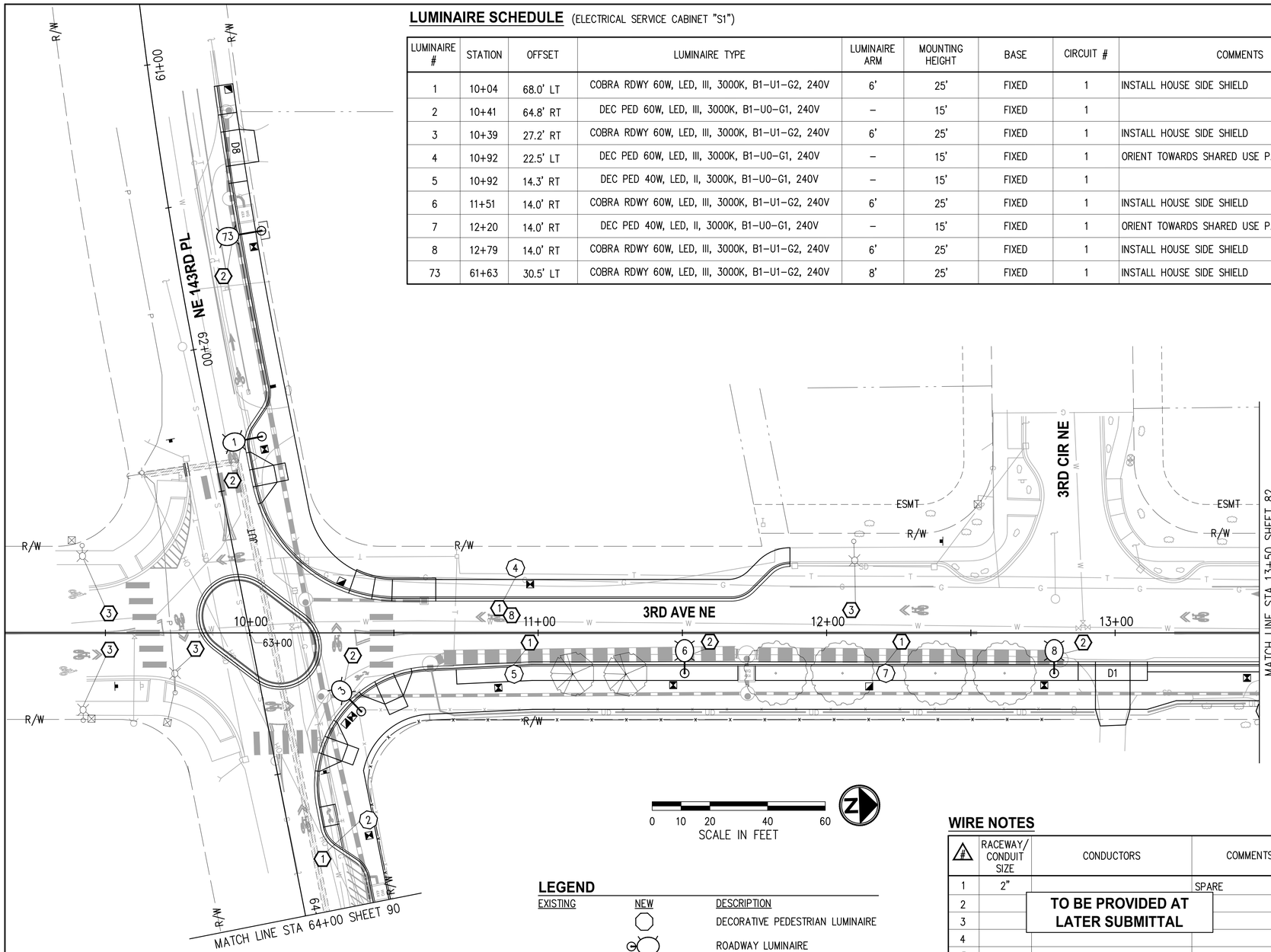
INTERSECTION & CURB RAMP PLAN
NE RING STREET

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SHT 80 OF 129

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
1	10+04	68.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
2	10+41	64.8' RT	DEC PED 60W, LED, III, 3000K, B1–U0–G1, 240V	–	15'	FIXED	1	
3	10+39	27.2' RT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
4	10+92	22.5' LT	DEC PED 60W, LED, III, 3000K, B1–U0–G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
5	10+92	14.3' RT	DEC PED 40W, LED, II, 3000K, B1–U0–G1, 240V	–	15'	FIXED	1	
6	11+51	14.0' RT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
7	12+20	14.0' RT	DEC PED 40W, LED, II, 3000K, B1–U0–G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
8	12+79	14.0' RT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
73	61+63	30.5' LT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	8'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD



0 10 20 40 60
SCALE IN FEET

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
8. LUMINAIRE POLE FOUNDATION / UTILITY CONFLICT TO BE RESOLVED AT THE LATER SUBMITTAL.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL–A–DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456–2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

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JAN CIGANIK — STATE OF WASHINGTON — 39324 — REGISTERED PROFESSIONAL ENGINEER

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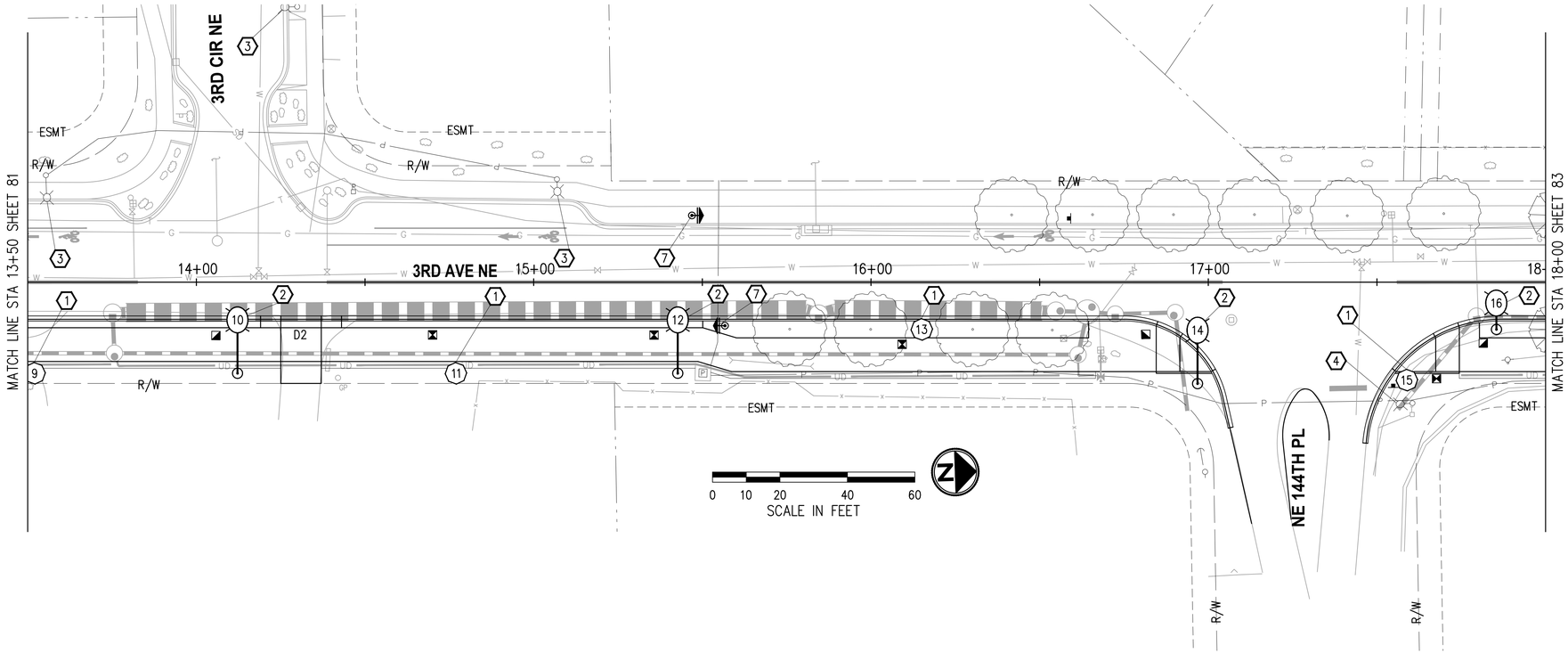
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 9+25 TO STA 13+50

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) EXCEPT USE 4–BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J–28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3–#8 AWG). SEE SPECIAL PROVISIONS.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
7. INSTALL FOUNDATION PER WSDOT STD PLAN J–28.30 (TYPE A) (EXCEPT CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILS, SHEET 92). FURNISH AND INSTALL 30" X 24" SOLAR POWERED SPEED RADAR SIGN WITH 12" LED DISPLAY AND YELLOW BACKGROUND PER DETAILS, SHEET 92. LOCATION SHALL BE PER CHANNELIZATION & SIGNING PLANS (TO BE COMPLETED AT THE NEXT SUBMITTAL). SOLAR PANEL SHALL BE MOUNTED TO TOP OF POLE AND ORIENTED TO FACE SOUTH. SEE SPECIAL PROVISIONS.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
9	13+52	27.0' RT	DEC PED 40W, LED, II, B1–U0–G1, 240V	–	15'	FIXED	1	
10	14+12	27.0' RT	COBRA RDWY 85W, LED, II, 3000K, B1–U2–G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
11	14+77	27.0' RT	DEC PED 60W, LED, III, B1–U0–G1, 240V	–	15'	FIXED	1	
12	15+43	27.0' RT	COBRA RDWY 85W, LED, II, 3000K, B1–U2–G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
13	16+15	14.0' RT	DEC PED 60W, LED, III, B1–U0–G1, 240V	–	15'	FIXED	1	
14	16+97	30.1' RT	COBRA RDWY 85W, LED, II, 3000K, B1–U2–G2, 240V	12'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
15	17+59	29.0' RT	DEC PED 60W, LED, III, B1–U0–G1, 240V	–	15'	FIXED	1	
16	17+85	14.0' RT	COBRA RDWY 60W, LED, III, 3000K, B1–U1–G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

GENERAL NOTES

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5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
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Small Town. Real Life.

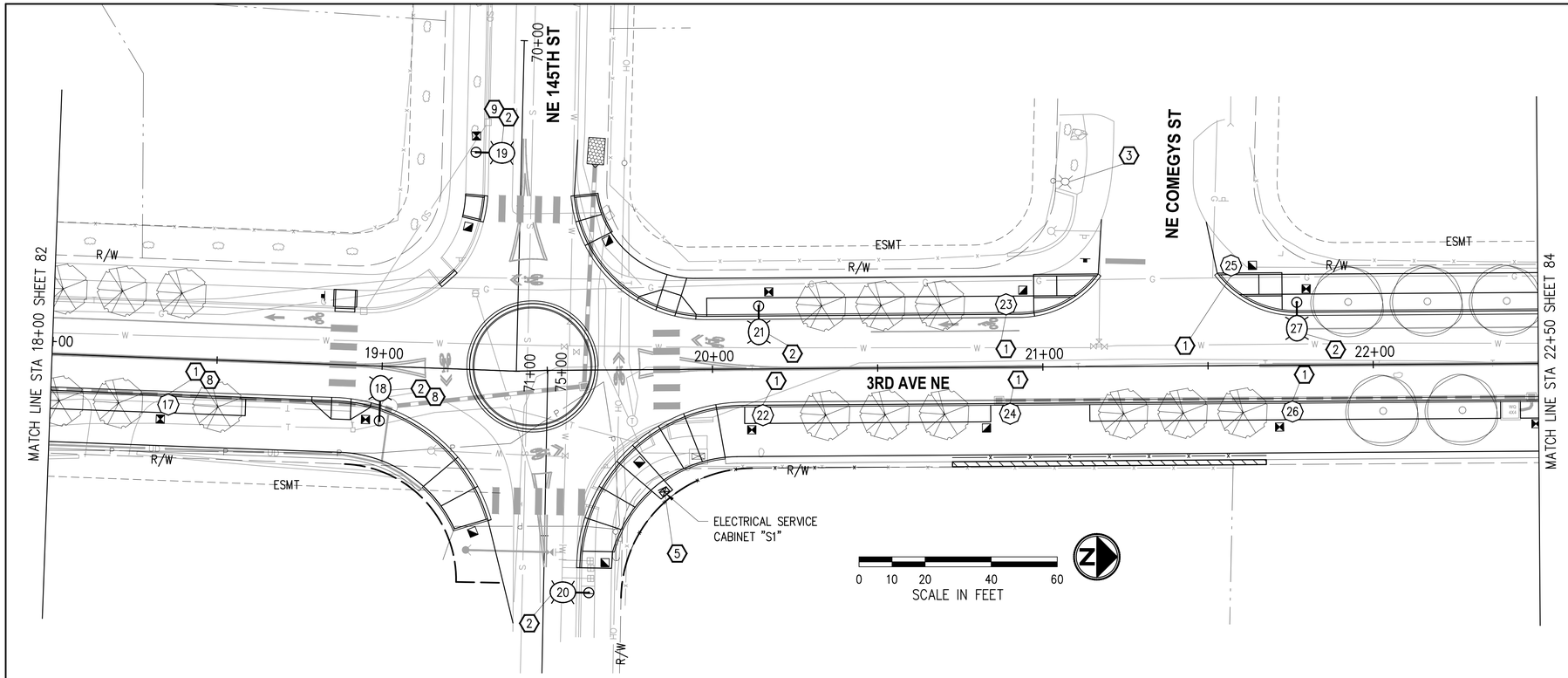
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 13+50 TO STA 18+00

KPG PROJECT No. 21078

SHT 82 OF 129

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2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
5. CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER WSDOT STD PLAN J-10.10. FURNISH AND INSTALL TYPE D ELECTRICAL SERVICE CABINET PER WSDOT STD PLAN J-10.21. CIRCUITS SHALL MATCH PANEL SCHEDULE PER SHEET 91 (TO BE COMPLETED AT THE NEXT SUBMITTAL). VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL METER BASE INSTALLATION WITH THE PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.
8. LUMINAIRE POLE FOUNDATION / UTILITY CONFLICT TO BE RESOLVED AT THE LATER SUBMITTAL.
9. LUMINAIRE POLE FOUNDATION IN CONFLICT WITH ABANDONED STORM PIPE. REMOVE CONFLICTING PIPE SECTION AND CAP BOTH ENDS.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1", "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
17	18+36	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	1	ORIENT TOWARDS SHARED USE PATH
18	19+00	16.5' RT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
19	19+26	65.7' LT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
20	19+62	67.3' RT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	6'	25	FIXED	1	INSTALL HOUSE SIDE SHIELD
21	20+14	19.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
22	20+15	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
23	20+89	19.0' LT	DEC PED 40W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	2	ORIENT TOWARDS SIDEWALK
24	20+90	14.1' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
25	21+57	30.3' LT	DEC PED 60W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	2	
26	21+75	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
27	21+77	19.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	3	INSTALL HOUSE SIDE SHIELD

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

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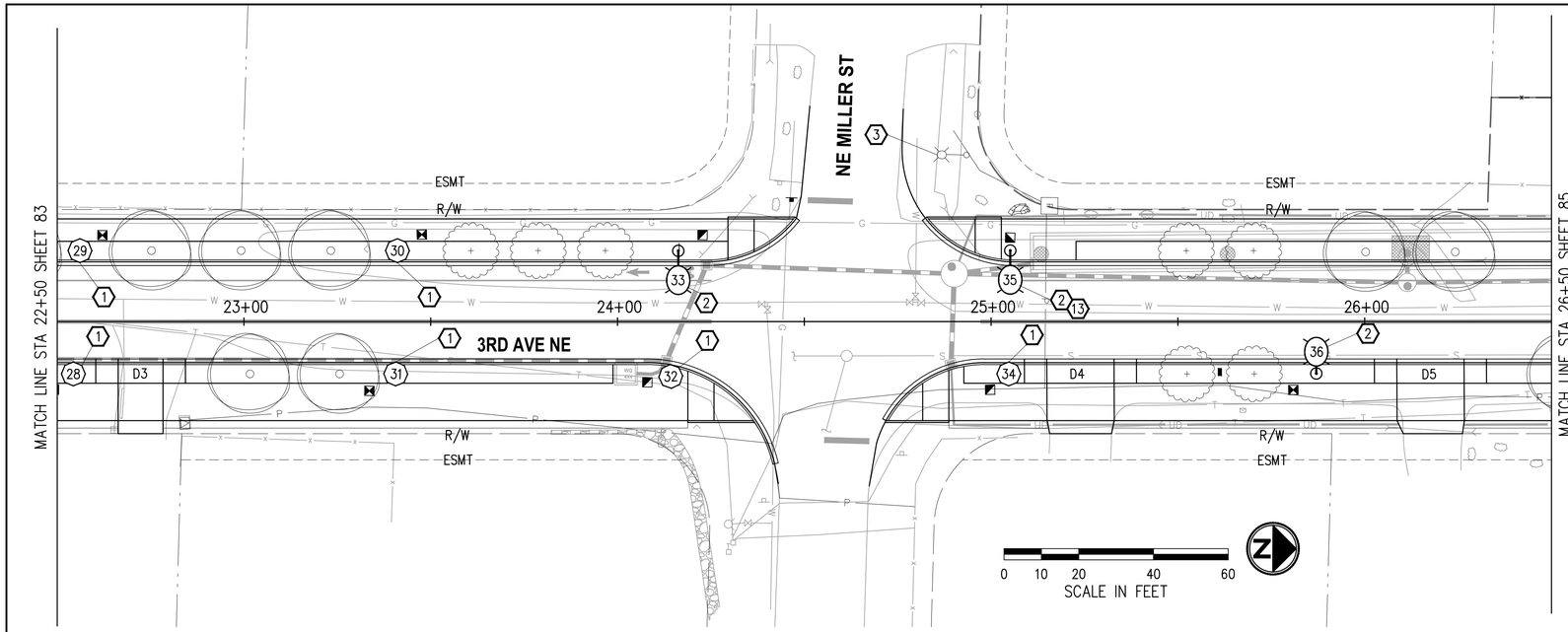
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3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
13. LUMINAIRE FOUNDATION SHALL USE METHOD 2 PER WSDOT STD PLAN J-28.30. PREVIOUSLY DISTURBED AREA SHALL BE BACKFILLED WITH CDF.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1", "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
28	22+54	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
29	22+56	19.0' LT	DEC PED 60W, LED, III, B1-U0-G1, 240V	–	15'	FIXED	2	
30	23+41	19.0' LT	DEC PED 60W, LED, III, B1-U0-G1, 240V	–	15'	FIXED	2	
31	23+41	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
32	24+14	14.7' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
33	24+16	18.9' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
34	25+05	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
35	25+05	19.1' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
36	25+87	13.9' RT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
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		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
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6. ALL NEW JUNCTION BOXES INSTALLED IN SIDEWALKS SHALL HAVE LOCKING AND SKID RESISTANT COATED LIDS AND FRAMES. JUNCTION BOXES SHALL NOT BE PLACED IN ADA CURB RAMPS OR ADA CURB RAMP LANDINGS.
7. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR SHALL BE VERIFIED IN FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

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JAN CIGANIK — STATE OF WASHINGTON — 39324 — REGISTERED PROFESSIONAL ENGINEER

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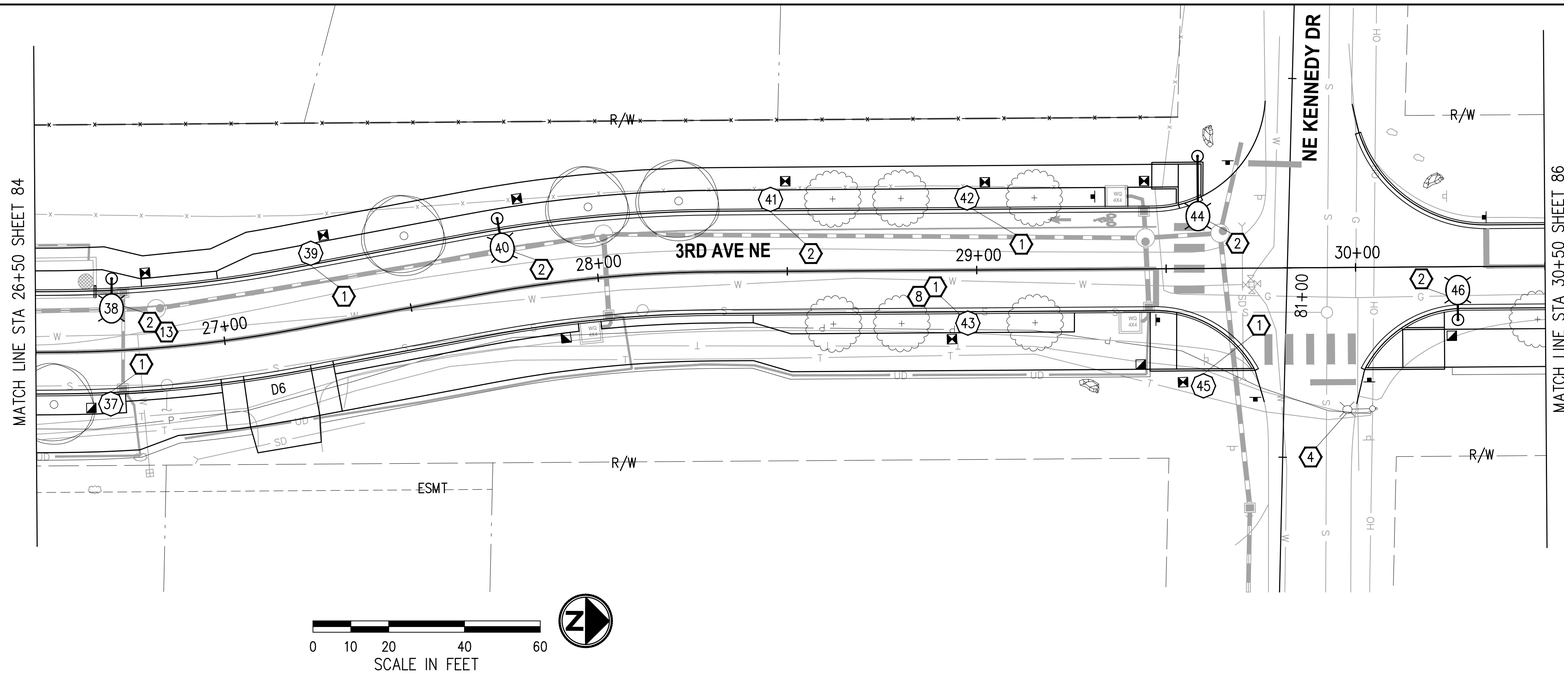
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 22+50 TO STA 26+50

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
8. LUMINAIRE POLE FOUNDATION / UTILITY CONFLICT TO BE RESOLVED AT THE LATER SUBMITTAL.
13. LUMINAIRE FOUNDATION SHALL USE METHOD 2 PER WSDOT STD PLAN J-28.30. PREVIOUSLY DISTURBED AREA SHALL BE BACKFILLED WITH CDF.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1", "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
37	26+69	14.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
38	26+71	19.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
39	27+27	19.0' LT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
40	27+76	19.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
41	28+46	19.0' LT	DEC PED 60W, LED, III, B1-U0-G1, 240V	–	15'	FIXED	2	
42	28+98	19.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD
43	28+98	14.0' RT	DEC PED 60W, LED, III, B1-U0-G1, 240V	–	15'	FIXED	2	
44	29+58	29.6' LT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	2	
45	29+60	31.0' RT	DEC PED 25W, LED, II, B1-U0-G1, 240V	–	15'	FIXED	3	ORIENT TOWARDS SHARED USE PATH
46	30+27	14.0' RT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	12'	25'	FIXED	2	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"	TO BE PROVIDED AT LATER SUBMITTAL	SPARE
2			
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE LOCATION OF ALL CONDUIT, JUNCTION BOXES, AND LUMINAIRES SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. THE CONTRACTOR IS ALLOWED TO INSTALL CONDUIT IN THE JOINT UTILITY TRENCH WHERE PRACTICABLE. FINAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
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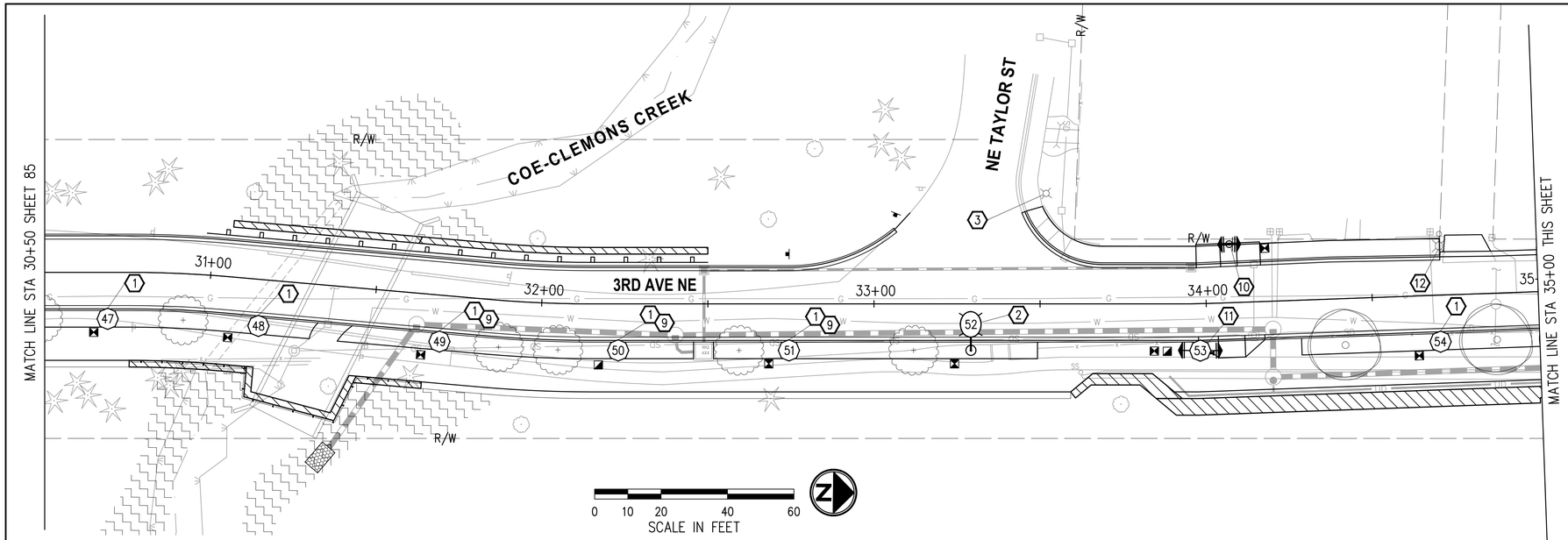
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 26+50 TO STA 30+50

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CONSTRUCTION NOTES

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2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
9. LUMINAIRE POLE FOUNDATION IN CONFLICT WITH ABANDONED STORM PIPE. REMOVE CONFLICTING PIPE SECTION AND CAP BOTH ENDS.
10. INSTALL FOUNDATION PER WSDOT STD PLAN J-20.11 (EXCEPT CIRCLE BOLT CONFIGURATION SHALL BE PER DETAILS, SHEET 92). FOUNDATION SHALL BE LOCATED AT STA 34+07.5, 17.6' LT. VERIFY LOCATION WITH THE ENGINEER IN THE FIELD. FURNISH AND INSTALL AC POWERED RRFB SYSTEM PER DETAILS SHEET 92. COORDINATE ORIENTATION OF RRFB PUSH BUTTON WITH THE ENGINEER IN THE FIELD PRIOR TO DRILLING HOLES. SEE SPECIAL PROVISIONS.
11. INSTALL FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH). FOR FOUNDATION STA/OFF SEE LUMINAIRE SCHEDULE, THIS SHEET. VERIFY LOCATION WITH THE ENGINEER IN THE FIELD. FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT EXCEPT GFCI RECEPTACLE PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. FURNISH AND INSTALL AC POWERED RRFB SYSTEM ON LUMINAIRE POLE PER DETAILS SHEET 92. COORDINATE ORIENTATION OF RRFB PUSH BUTTON WITH THE ENGINEER IN THE FIELD PRIOR TO DRILLING HOLES. SEE SPECIAL PROVISIONS. LUMINAIRE JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS..
12. EXISTING POLE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/WIRING DURING CONSTRUCTION. FURNISHING AND REPLACEMENT OF EXISTING WITH NEW 60W LUMINAIRE SHALL BE DONE BY OTHERS. COORDINATE WORK WITH PSE POLE SERVICES.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
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LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
47	30+69	14.0' RT	DEC PED 25W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
48	31+16	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
49	31+70	13.9' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
50	32+23	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
51	32+74	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
52	33+29	14.0' RT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
53	33+98	14.1' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	INSTALL RRFB SYSTEM ON POLE, NO GFCI
54	34+70	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"	TO BE PROVIDED AT LATER SUBMITTAL	SPARE
2			
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

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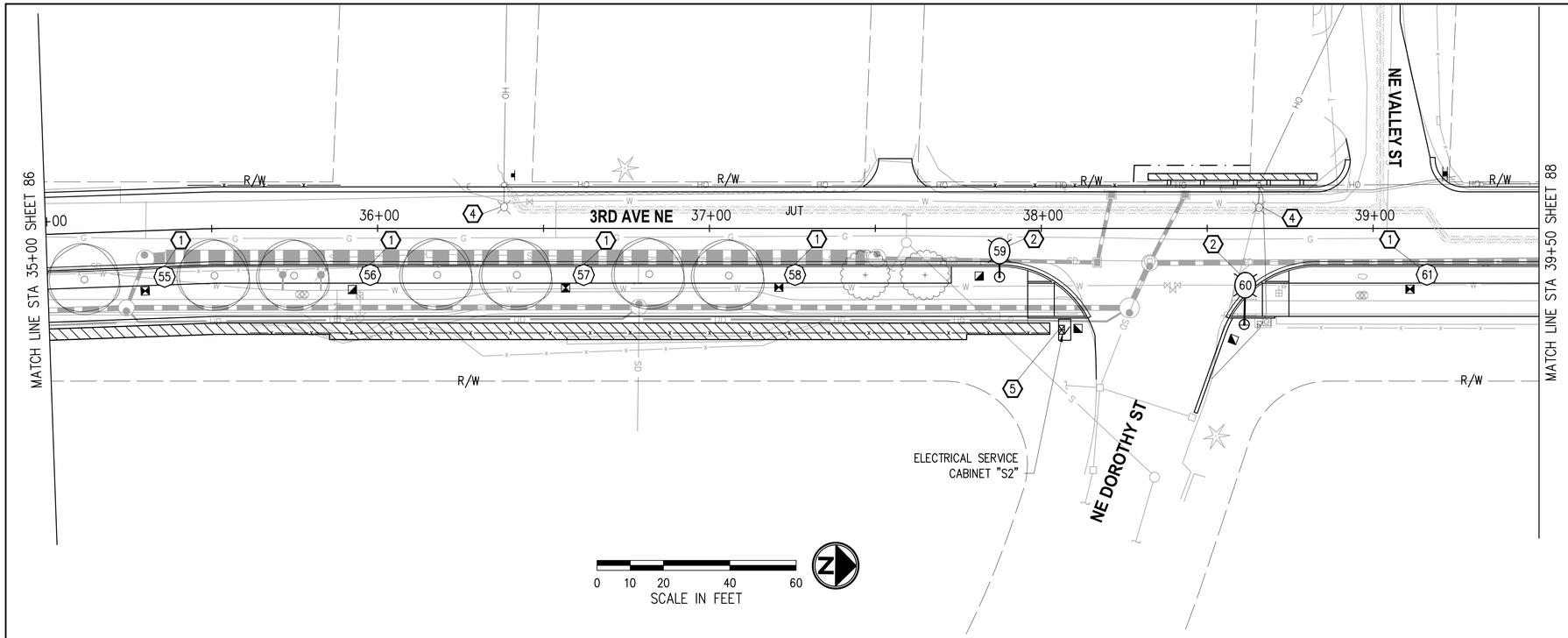
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CONSTRUCTION NOTES

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2. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
5. CONSTRUCT ELECTRICAL SERVICE CABINET FOUNDATION PER WSDOT STD PLAN J-10.10. FURNISH AND INSTALL TYPE D ELECTRICAL SERVICE CABINET PER WSDOT STD PLAN J-10.21. CIRCUITS SHALL MATCH PANEL SCHEDULE PER SHEET 91 (TO BE COMPLETED AT THE NEXT SUBMITTAL). VERIFY FINAL LOCATION WITH THE ENGINEER IN THE FIELD. COORDINATE ELECTRICAL METER BASE INSTALLATION WITH THE PSE REPRESENTATIVE. SEE SPECIAL PROVISIONS.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
55	35+35	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
56	35+98	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
57	36+62	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
58	37+26	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
59	37+87	14.6' RT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
60	38+61	28.9' RT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	12'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
61	39+16	13.9' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
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2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

GENERAL NOTES

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8. EXISTING OR HIGHER ILLUMINATION LEVELS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION, BY USING EXISTING OR TEMPORARY ILLUMINATION UNTIL THE NEW SYSTEM IS OPERATIONAL.

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

NO.	DATE	BY	APPR.	REVISIONS

Approved By

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JAN CIGANIK STATE OF WASHINGTON 39324 REGISTERED PROFESSIONAL ENGINEER

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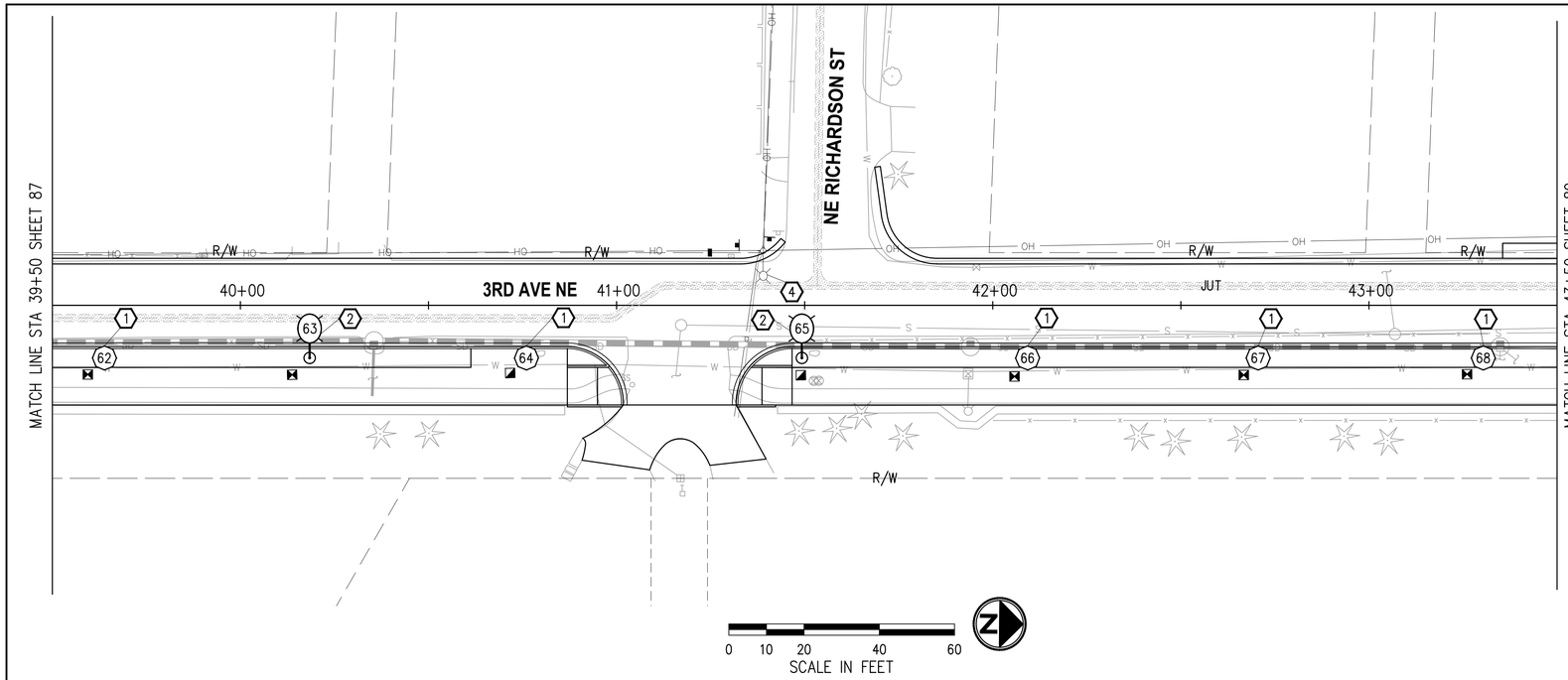
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 35+00 TO STA 39+50

KPG PROJECT No. 21078

SHT 87 OF 129

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CONSTRUCTION NOTES

1. CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK – PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE WHERE APPLICABLE). FURNISH AND INSTALL DECORATIVE PEDESTRIAN LUMINAIRE POLE, POST TOP DECORATIVE PEDESTRIAN LED LUMINAIRE, DECORATIVE BASE, AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.
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4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
62	39+64	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
63	40+18	14.0' RT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
64	40+76	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
65	41+49	14.0' RT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
66	42+09	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH
67	42+71	14.0' RT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
68	43+30	14.0' RT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	ORIENT TOWARDS SHARED USE PATH

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
1. ALL NEW CONDUITS CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (NOT SHOWN IN THE TABLE ABOVE). GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS NOTED OTHERWISE IN THE WIRE NOTES). SPARE/EMPTY CONDUITS SHALL CONTAIN DETECTABLE PULL TAPE AND SHALL BE LABELED CITY OF DUVALL CONDUIT.
2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN THE ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, CITY OF DUVALL STANDARDS, PUGET SOUND ENERGY STANDARDS, THESE PLANS AND SPECIAL PROVISIONS.
2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
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4. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REPRESENTATIVE (PSE), RAWLEY ROBINS AT (425) 456-2453 REGARDING THE ELECTRICAL SERVICE CONNECTION AND INSTALLATION OF THE METER BASE.
5. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS 360 DEGREES, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS REQUIRED.
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LEGEND

EXISTING	NEW	DESCRIPTION
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		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
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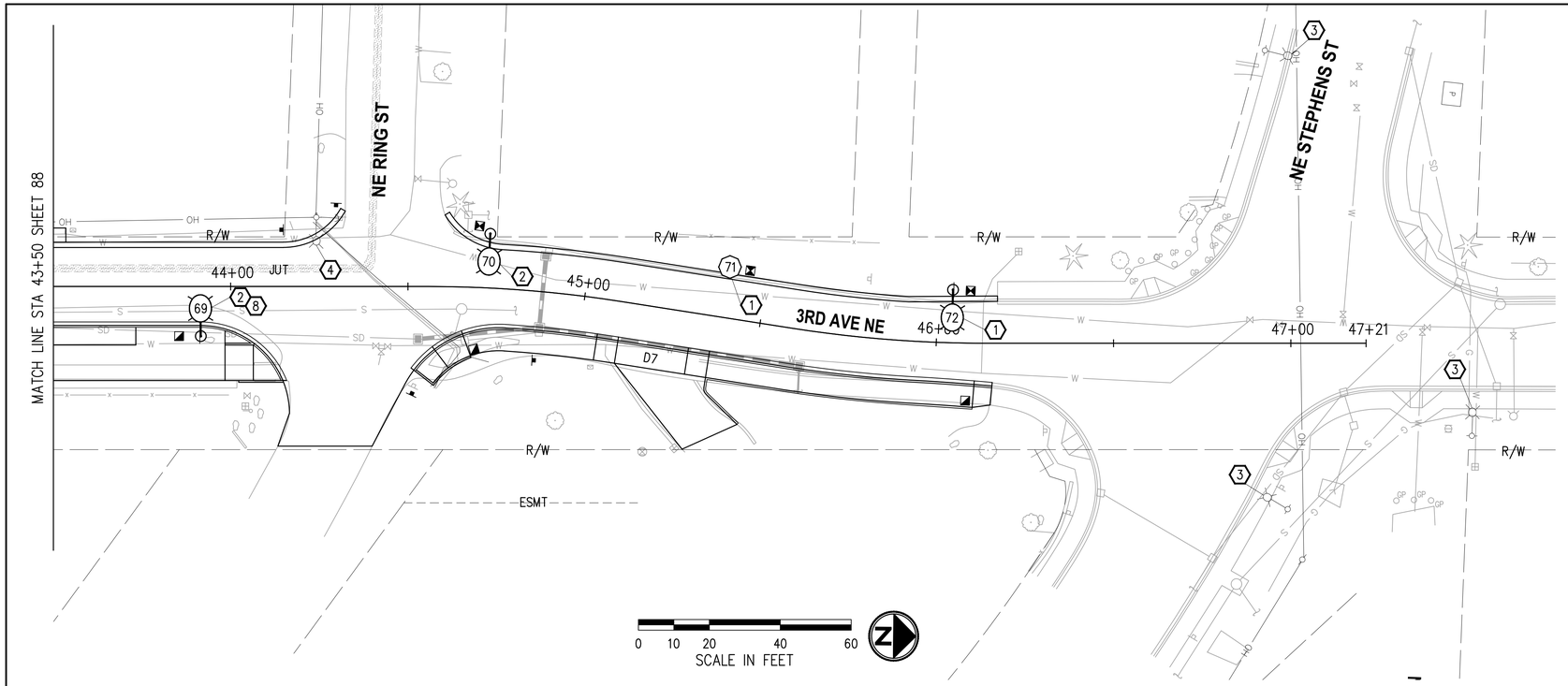
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 39+50 TO STA 43+50

KPG PROJECT No. 21078

SHT 88 OF 129

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CONSTRUCTION NOTES

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3. EXISTING LUMINAIRE TO REMAIN. PROTECT ALL ASSOCIATED EQUIPMENT/CONDUIT/WIRING DURING CONSTRUCTION, WHERE APPLICABLE.
4. EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.
8. LUMINAIRE POLE FOUNDATION / UTILITY CONFLICT TO BE RESOLVED AT THE LATER SUBMITTAL.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S2")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
69	43+92	14.0' RT	COBRA RDWY 85W, LED, II, 3000K, B1-U2-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
70	44+73	15.3' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD
71	45+39	14.4' LT	DEC PED 40W, LED, II, 3000K, B1-U0-G1, 240V	–	15'	FIXED	4	
72	46+04	15.0' LT	COBRA RDWY 60W, LED, III, 3000K, B1-U1-G2, 240V	6'	25'	FIXED	4	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2		TO BE PROVIDED AT LATER SUBMITTAL	
3			
4			
5			

NOTES
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2. ALL NEW CONDUIT SHALL BE RIGID PVC SCH 80.

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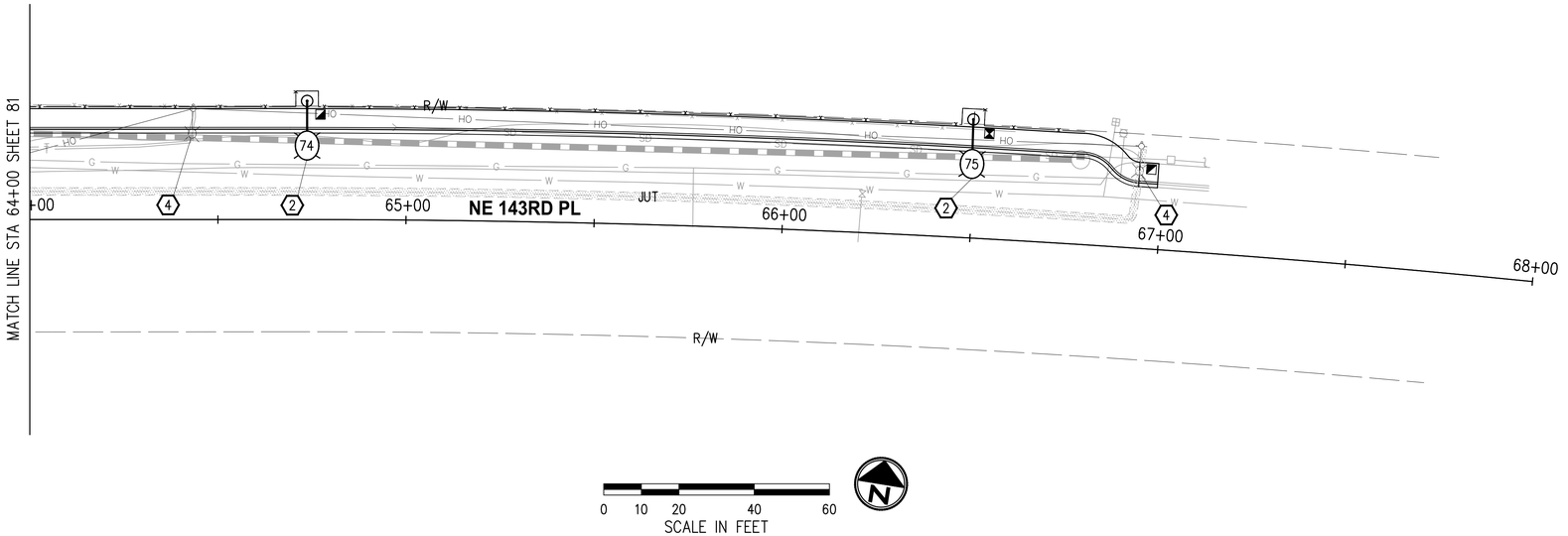
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

ILLUMINATION PLAN
STA 43+50 TO STA 47+21

KPG PROJECT No. 21078

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CONSTRUCTION NOTES

(2) CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-28.30 (TYPE A) EXCEPT USE 4-BOLT BASE PLATE CONFIGURATION PER DETAIL SHEET 91 (TOP OF FOUNDATION SHALL MATCH BOTTOM OF SIDEWALK - PROVIDE ADDITIONAL 4" TO ANCHOR BOLT LENGTH, OR MATCH TOP OF SOFTSCAPE, WHERE APPLICABLE). FURNISH AND INSTALL ROADWAY LUMINAIRE POLE, COBRA HEAD TYPE LED LUMINAIRE AND ALL ASSOCIATED EQUIPMENT PER DETAILS SHEET 91. FOR ADDITIONAL LUMINAIRE DETAILS SEE LUMINAIRE SCHEDULE, THIS SHEET. JUNCTION BOX, CONDUIT AND POLE BASE WIRING SHALL BE PER WSDOT STD PLAN J-28.70 (CONDUIT SHALL BE 2" PVC AND WIRING SHALL BE 3-#8 AWG). SEE SPECIAL PROVISIONS.

(4) EXISTING TIMBER UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED BY OTHERS. COORDINATE WORK WITH THE PUGET SOUND ENERGY REPRESENTATIVE.

LUMINAIRE SCHEDULE (ELECTRICAL SERVICE CABINET "S1")

LUMINAIRE #	STATION	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
74	64+74	31.5' LT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	10'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD
75	66+49	31.5' LT	DEC PED 60W, LED, III, 3000K, B1-U0-G1, 240V	10'	25'	FIXED	1	INSTALL HOUSE SIDE SHIELD

LEGEND

EXISTING	NEW	DESCRIPTION
		DECORATIVE PEDESTRIAN LUMINAIRE
		ROADWAY LUMINAIRE
		ELECTRICAL SERVICE CABINET
		RRFB OR SPEED RADAR SIGN
		JUNCTION BOX TYPE 1, 2, 8
		CONDUIT
		WIRE NOTE
		CONSTRUCTION NOTE

WIRE NOTES

(#)	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"	TO BE PROVIDED AT LATER SUBMITTAL	SPARE
2			
3			
4			
5			

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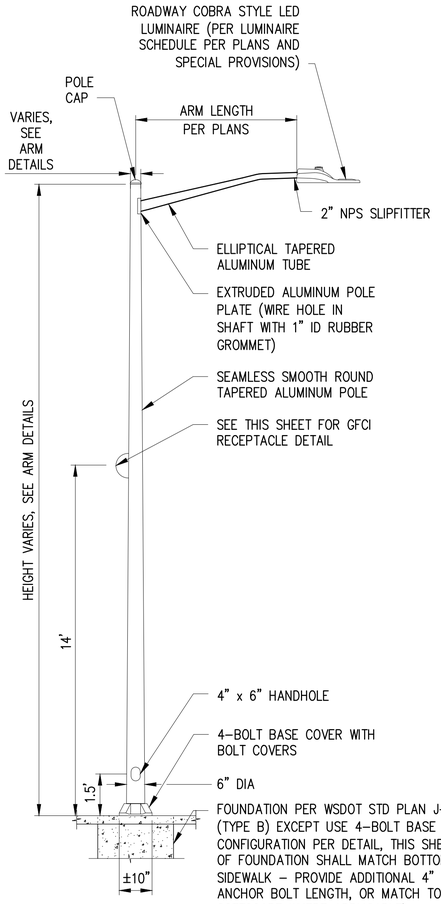
ILLUMINATION PLAN
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078

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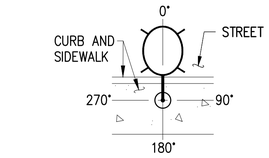
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PAINT SPECIFICATIONS:
ALL ALUMINUM POLE COMPONENTS AND LUMINAIRE FIXTURES SHALL BE FACTORY POWDER COATED WITH PRIMER AND FINISH PAINT. FOR PAINT COLOR AND APPLICATION PROCESS, SEE SECTION 6-07 OF THE SPECIAL PROVISIONS.

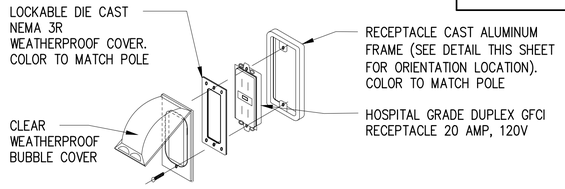


BASE PLATE DETAIL
NTS

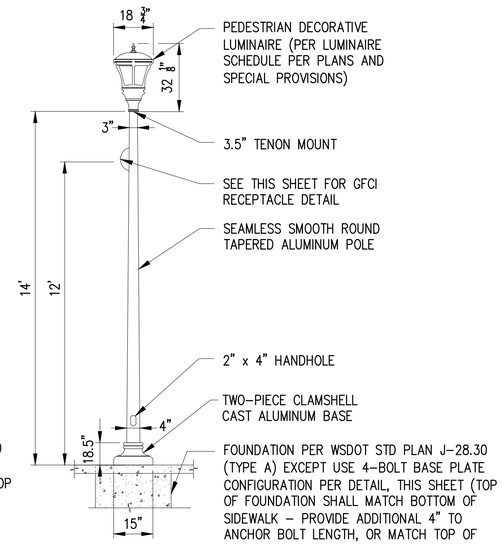
ROADWAY LUMINAIRE POLE DETAIL
NTS



HANDHOLE & RECEPTACLE ORIENTATION
1. HANDHOLE ACCESS DOOR SHALL BE MOUNTED AT 90°
2. RECEPTACLE SHALL BE MOUNTED AT 180°



GFCI RECEPTACLE DETAIL
NTS



BASE PLATE DETAIL
NTS

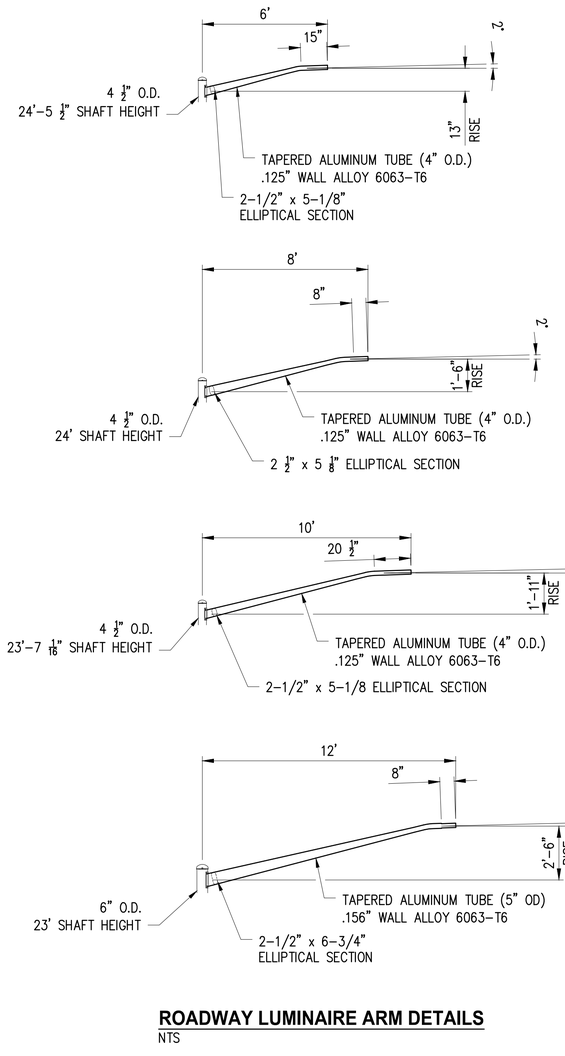
PEDESTRIAN LUMINAIRE POLE DETAIL
NTS

PANEL SCHEDULE

# S1	LOCATION: 3RD AVE NE & NE 145TH ST SERVING: ILLUMINATION, RECEPTACLES		VOLTS: 120/240 PHASE: 1 MAIN BREAKER: 100 AMPS WIRE: 3				
CKT #	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT #
1	ILLUMINATION (75, 74, 2, 3, 73, 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19)	1.3	20	1 2	20	2.5	RECEPTACLE (75, 74, 2, 3, 73, 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19)	2
				3 4	20	1.9	RECEPTACLE (44, 42, 41, 40, 39, 38, 35, 34, 32, 29, 28, 26, 24, 22, 20, 18)	4
5	ILLUMINATION (44, 42, 41, 40, 39, 38, 35, 34, 32, 29, 28, 26, 24, 22, 20, 18)	0.9	20	5 6	20	1.2	RECEPTACLE (45, 43, 37, 33, 31, 30, 27, 25, 23, 21)	6
				7 8	–	–	SPARE	8
9	ILLUMINATION (45, 43, 37, 33, 31, 30, 27, 25, 23, 21)	0.3	20	9 10	20	0.3	CABINET GFCI RECEPTACLE	10
				11 12	15	0.3	CONTROL (PHOTOCELL)	12
13	SPARE	–	–	13 14	–	–	SPARE	14
				15 16	–	–	SPARE	16
17	SPARE	–	–	17 18	–	–	SPARE	18
REMARKS:			CONNECTED LOAD: 8.8 KVA 36.7 AMPS DEMAND LOAD (125%): 11.0 KVA 45.8 AMPS					

PANEL SCHEDULE

# S2	LOCATION: 3RD AVE NE & NE DOROTHY ST SERVING: ILLUMINATION, RECEPTACLES, RRFB, IRRIGATION		VOLTS: 120/240 PHASE: 1 MAIN BREAKER: 100 AMPS WIRE: 3				
CKT #	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT #
1	ILLUMINATION (46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59)	0.8	20	1 2	20	1.6	RECEPTACLE (46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59)	2
				3 4	20	1.6	RECEPTACLE (72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60)	4
5	ILLUMINATION (72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60)	0.7	20	5 6	15	–	SPARE	6
				7 8	–	–	SPARE	8
9	SPARE	–	–	9 10	20	0.3	CABINET GFCI RECEPTACLE	10
				11 12	15	0.3	CONTROL (PHOTOCELL)	12
13	SPARE	–	–	13 14	–	–	SPARE	14
				15 16	–	–	SPARE	16
17	SPARE	–	–	17 18	–	–	SPARE	18
REMARKS:			CONNECTED LOAD: 5.2 KVA 21.7 AMPS DEMAND LOAD (125%): 6.5 KVA 27.1 AMPS					



ROADWAY LUMINAIRE ARM DETAILS
NTS

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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JAN CIGANIK STATE OF WASHINGTON 39324 REGISTERED PROFESSIONAL ENGINEER

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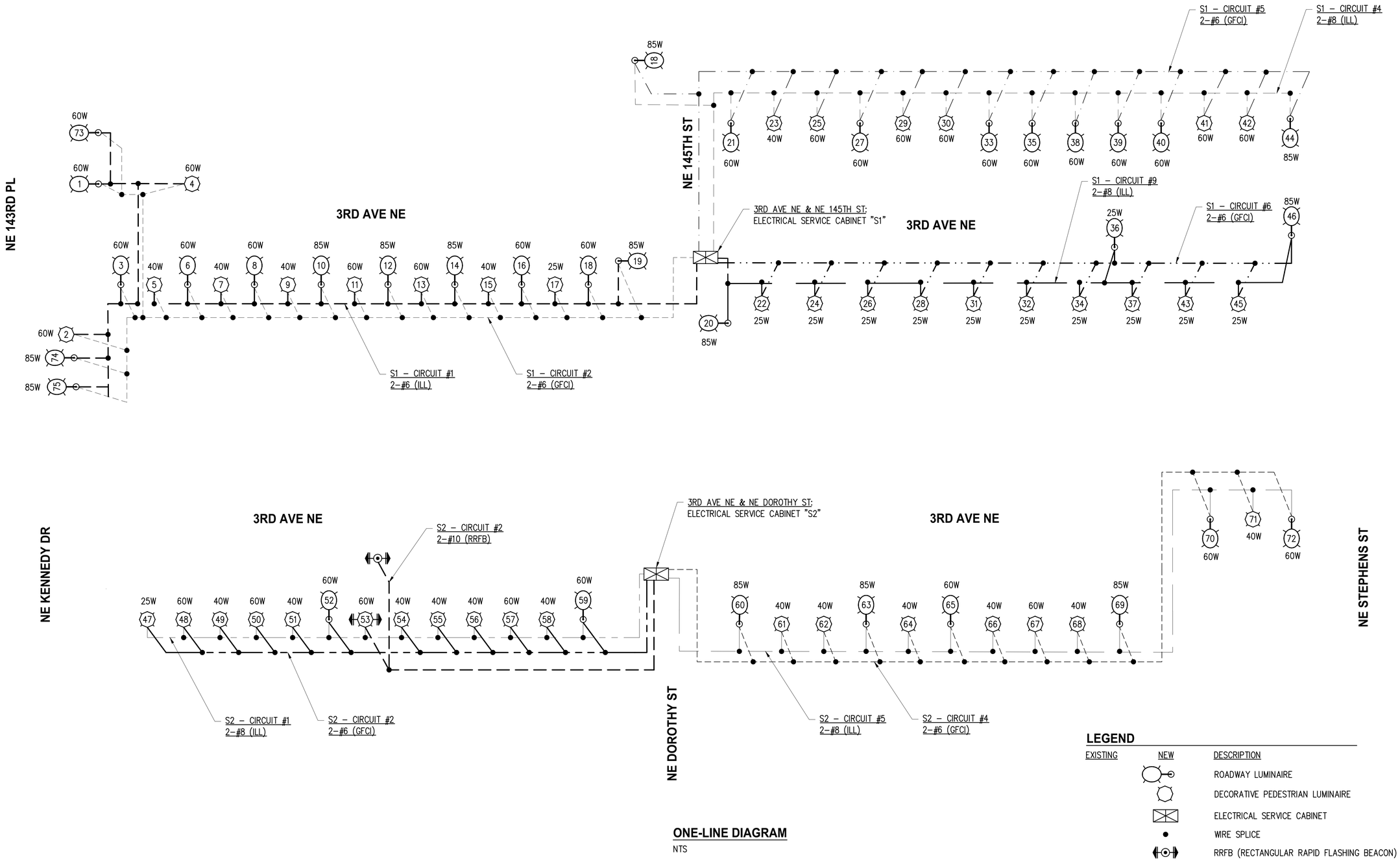
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ILLUMINATION DETAILS

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ONE-LINE DIAGRAM

NTS

LEGEND

EXISTING	NEW	DESCRIPTION
		ROADWAY LUMINAIRE
		DECORATIVE PEDESTRIAN LUMINAIRE
		ELECTRICAL SERVICE CABINET
		WIRE SPLICE
		RRFB (RECTANGULAR RAPID FLASHING BEACON)

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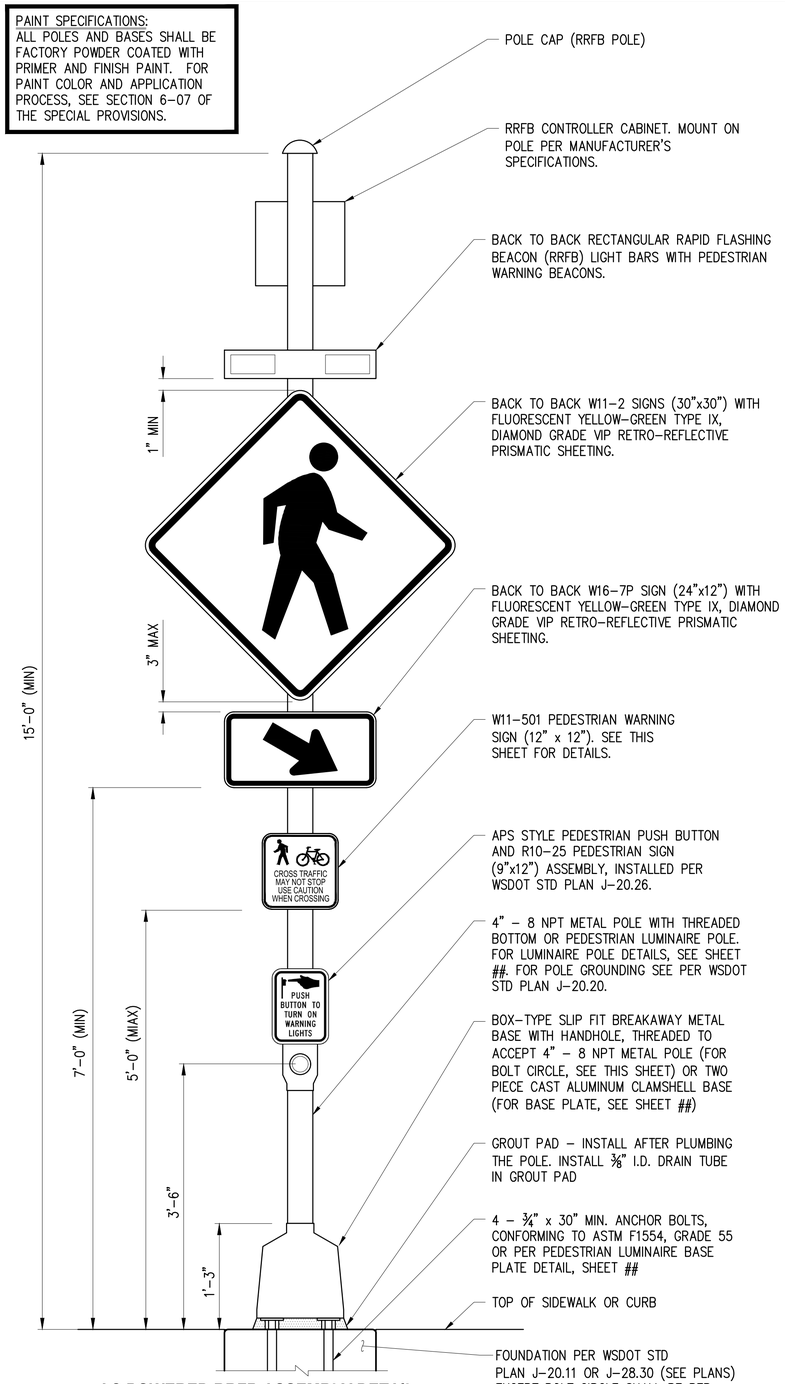
ILLUMINATION DETAILS

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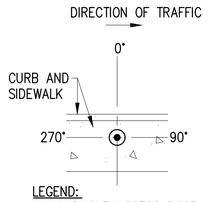
SHT 92 OF 129

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PAINT SPECIFICATIONS:
ALL POLES AND BASES SHALL BE FACTORY POWDER COATED WITH PRIMER AND FINISH PAINT. FOR PAINT COLOR AND APPLICATION PROCESS, SEE SECTION 6-07 OF THE SPECIAL PROVISIONS.



AC POWERED RRFB ASSEMBLY DETAIL
NTS



LEGEND:
1. HANDHOLE ACCESS DOOR SHALL BE MOUNTED AT 90°
2. SIGN ORIENTATION PER THE PLANS



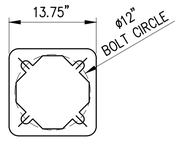
W11-501 PEDESTRIAN WARNING SIGN DETAILS



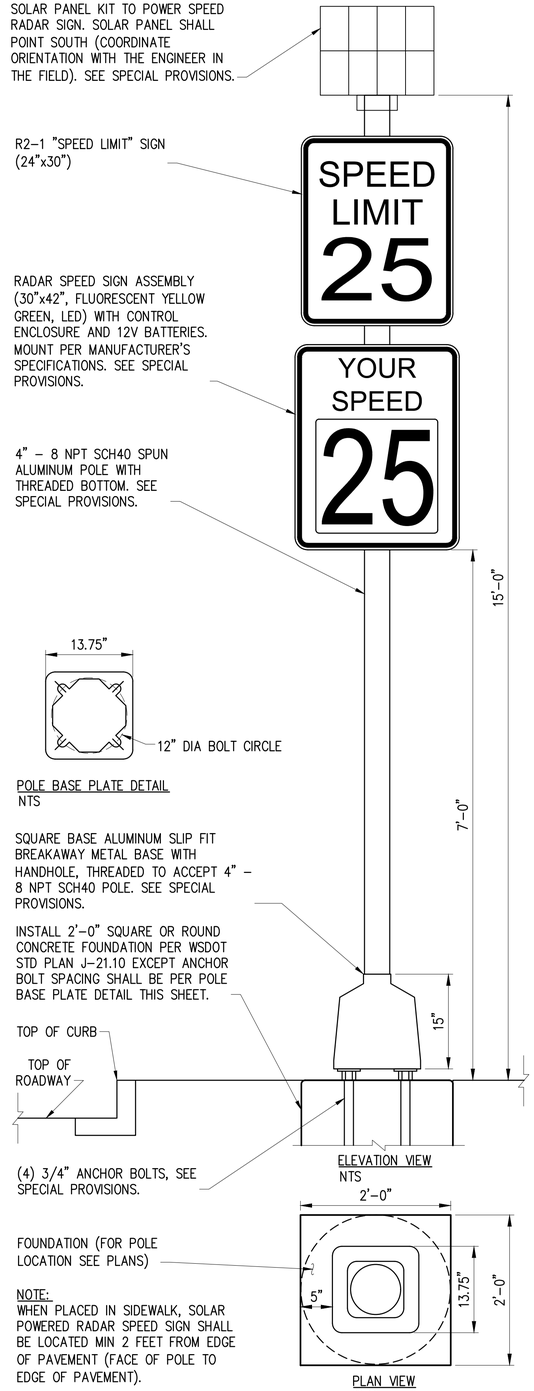
PEDESTRIAN PUSH BUTTON SIGN DETAILS
NTS

NOTE: SIGN SHALL BE BLACK ON WHITE WITH BLACK LETTERING

NOTE:
1. SIGNS SHALL BE INSTALLED PER COT STD DETAIL RS-23A AND RS-23B.
2. SIGNS ARE NOT TO SCALE.
3. ALL SIGN DIMENSIONS SHALL BE VERIFIED WITH THE ENGINEER AND MANUFACTURER PRIOR TO FABRICATION.
4. EACH W11-2 NEW SIGN ASSEMBLY SHALL INCLUDE 12" x 12" ORANGE FLAG (RETRO-REFLECTIVE SHEETING), LOCATED AT THE TOP OF ASSEMBLY AND ORIENTED AT 45° TO FLAG AS NEW SIGN.



RRFB POLE BOLT CIRCLE
NTS



POLE BASE PLATE DETAIL
NTS

ELEVATION VIEW
NTS

PLAN VIEW
NTS

NOTE:
WHEN PLACED IN SIDEWALK, SOLAR POWERED RADAR SPEED SIGN SHALL BE LOCATED MIN 2 FEET FROM EDGE OF PAVEMENT (FACE OF POLE TO EDGE OF PAVEMENT).

SOLAR POWERED RADAR SPEED SIGN DETAIL
NTS

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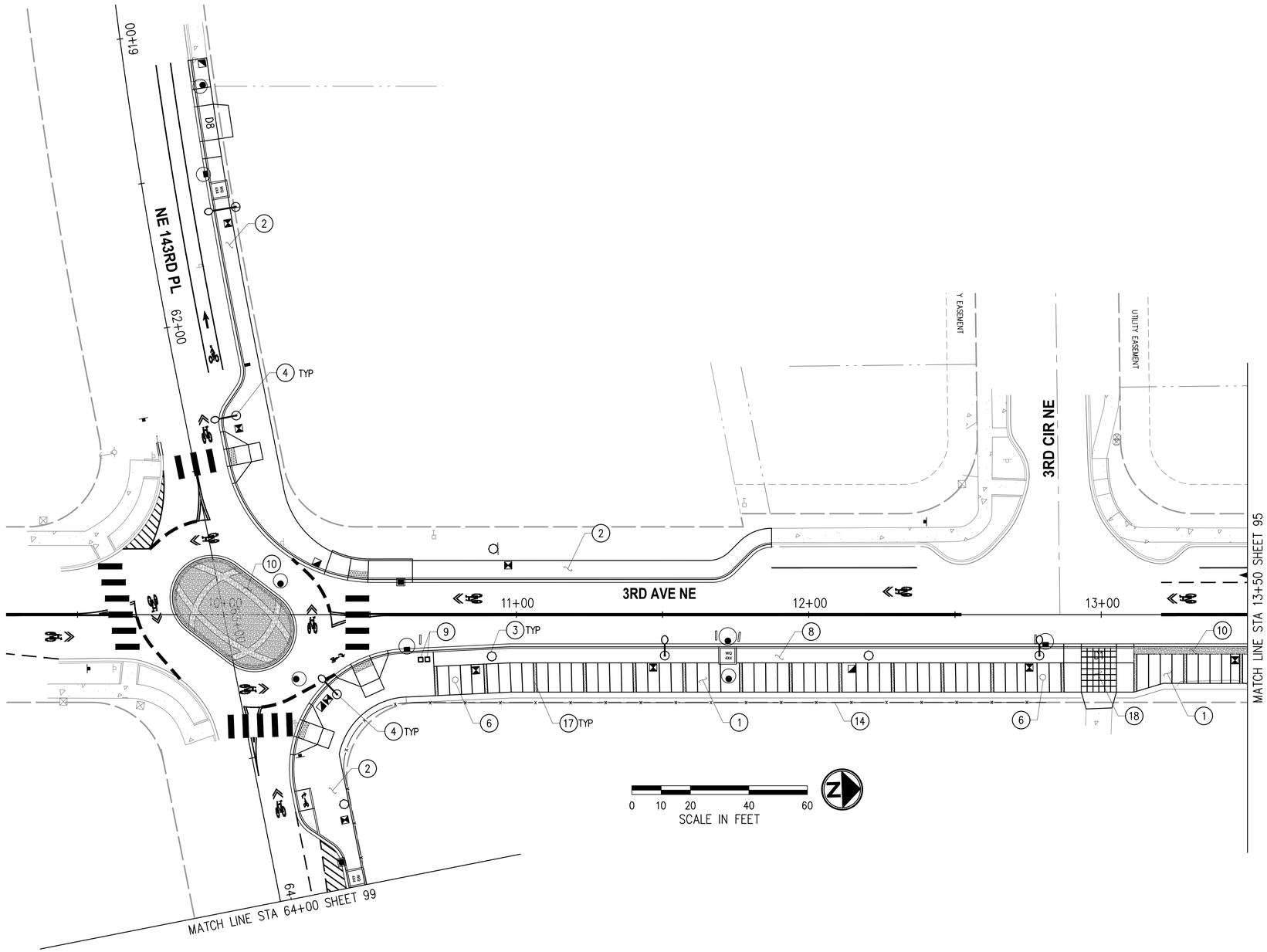
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ILLUMINATION DETAILS

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GENERAL NOTES

1. STATION/OFFSET SHALL BE TAKEN FROM CENTER OF FEATURE UNLESS OTHERWISE NOTED.
2. DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE POLE LOCATION AND DETAILS SHALL BE PER ILLUMINATION PLANS & DETAILS, SHEETS 81–93.

CONSTRUCTION NOTES

(1) CEMENT CONC PAVEMENT. SEE SECTIONS, SHEETS 5–7, AND SEE URBAN DESIGN PACKAGE.

(2) CEMENT CONC SIDEWALK. SEE SECTIONS, SHEETS 5–7.

(3) DECORATIVE PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(6) THERMOPLASTIC SHARED USE PATH MARKER. SEE URBAN DESIGN PACKAGE.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 105–106.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN PACKAGE.

(10) DECORATIVE STAMPED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(14) FENCE.

(17) DECORATIVE SANDBLASTED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(18) SCORED CEMENT CONC DRIVEWAY.

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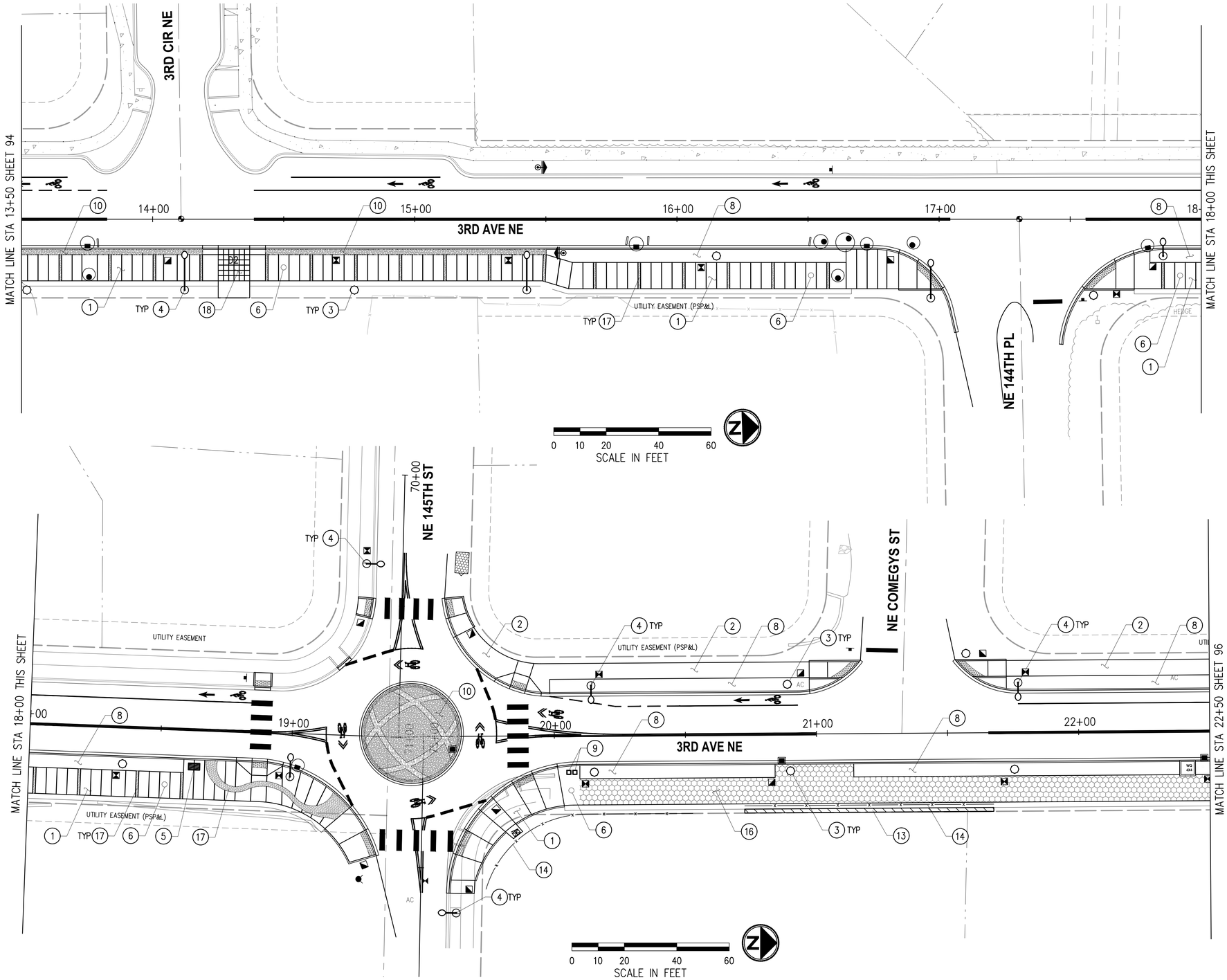
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URBAN DESIGN PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

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GENERAL NOTES

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(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(5) BENCH. SEE URBAN DESIGN PACKAGE.

(6) THERMOPLASTIC SHARED USE PATH MARKER. SEE URBAN DESIGN PACKAGE.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 105–106.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN PACKAGE.

(10) DECORATIVE STAMPED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(13) RETAINING WALL. SEE URBAN DESIGN PACKAGE.

(14) FENCE.

(16) PERVIOUS CONC SIDEWALK.

(17) DECORATIVE SANDBLASTED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(18) SCORED CEMENT CONC DRIVEWAY.

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PROJECT ENGINEER	DATE

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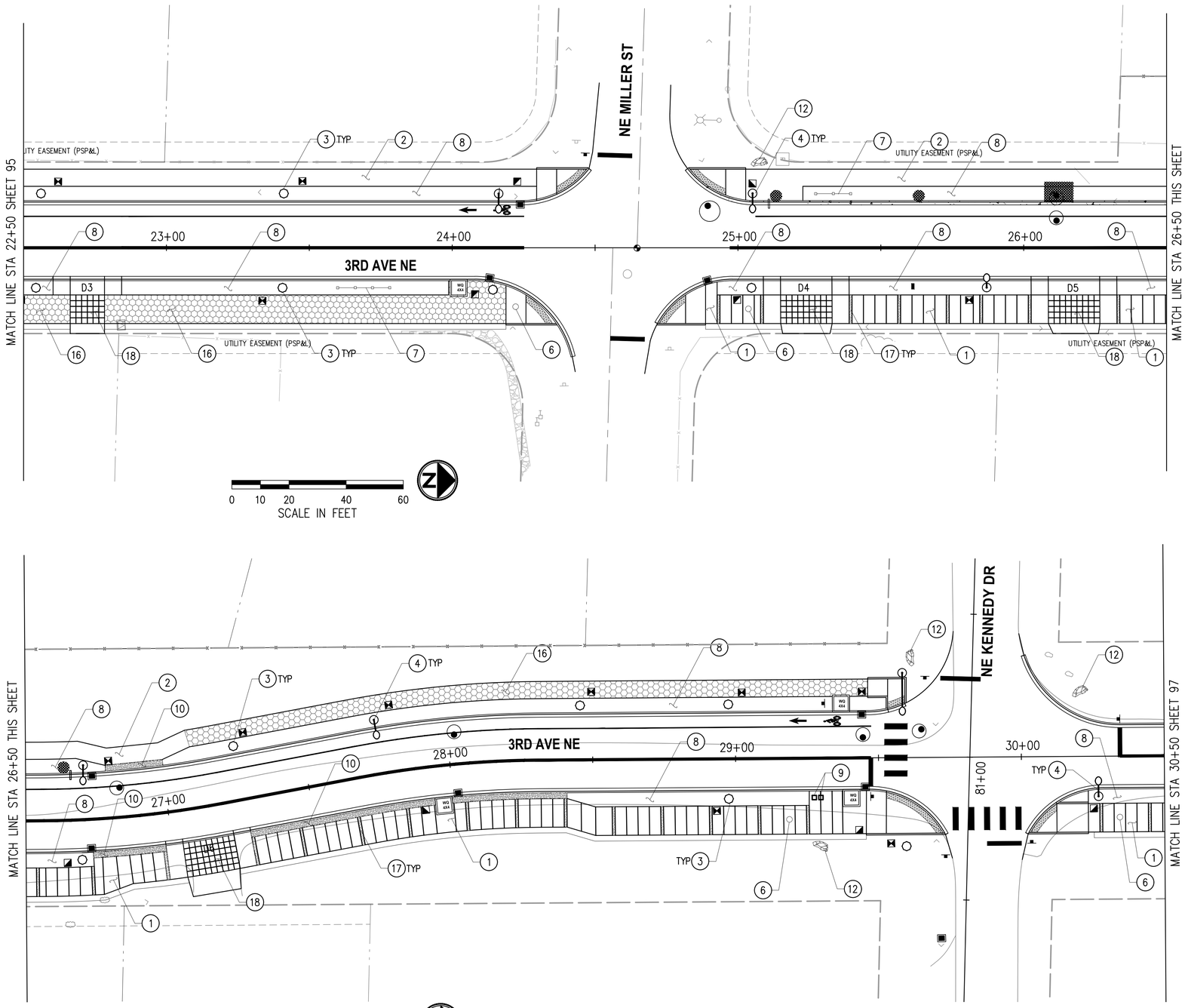
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URBAN DESIGN PLAN
STA 13+50 TO STA 22+50

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GENERAL NOTES

1. STATION/OFFSET SHALL BE TAKEN FROM CENTER OF FEATURE UNLESS OTHERWISE NOTED.
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3. NOTE 3

CONSTRUCTION NOTES

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(2) CEMENT CONC SIDEWALK. SEE SECTIONS, SHEETS 5–7.

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(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(6) THERMOPLASTIC SHARED USE PATH MARKER. SEE URBAN DESIGN PACKAGE.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN PACKAGE.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 105–106.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN PACKAGE.

(10) DECORATIVE STAMPED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(12) BOULDER BENCH. SEE URBAN DESIGN PACKAGE.

(16) PERVIOUS CONC SIDEWALK.

(17) DECORATIVE SANDBLASTED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(18) SCORED CEMENT CONC DRIVEWAY.

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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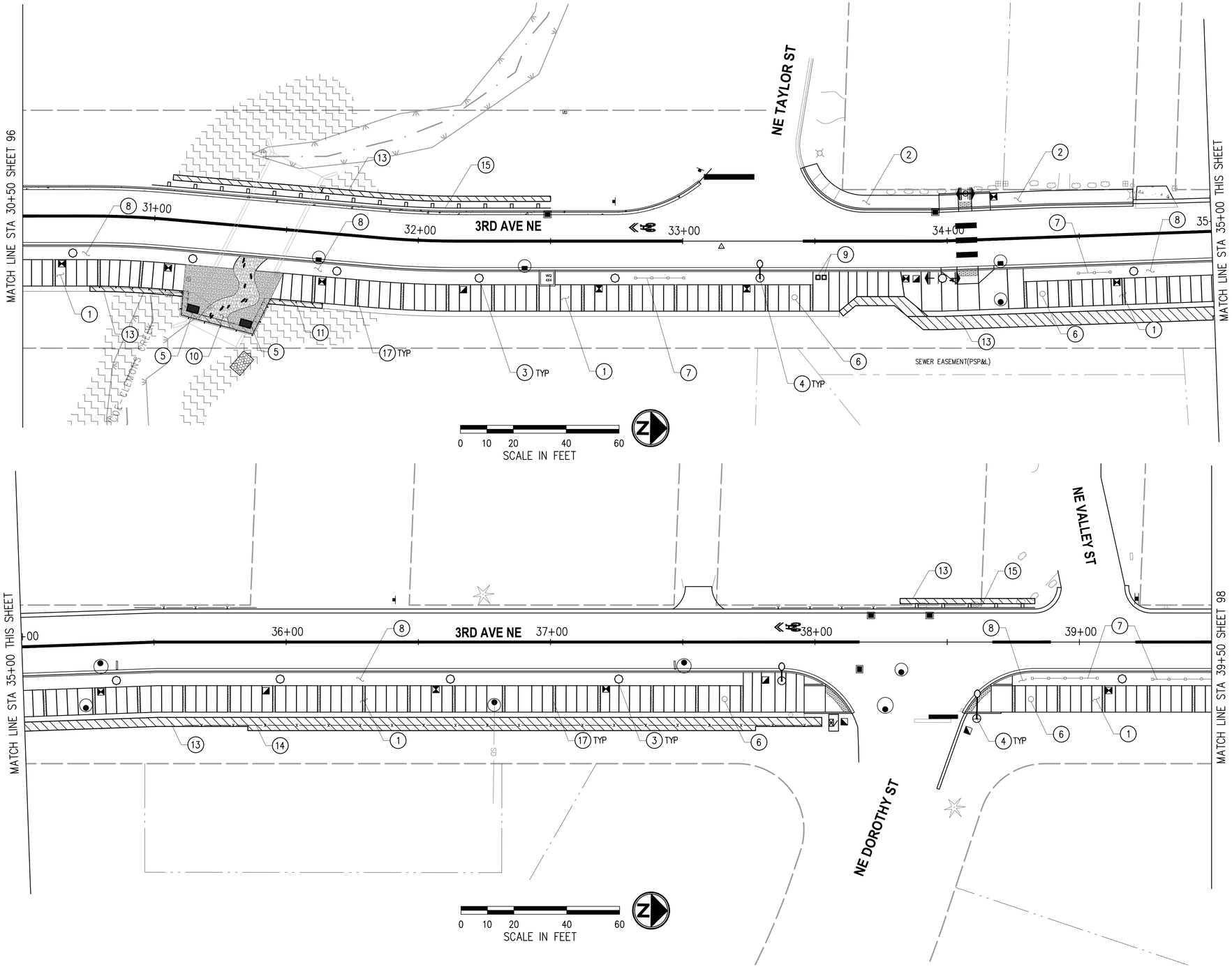
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URBAN DESIGN PLAN
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3. NOTE 3

CONSTRUCTION NOTES

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(2) CEMENT CONC SIDEWALK. SEE SECTIONS, SHEETS 5–7.

(3) DECORATIVE PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(5) BENCH. SEE URBAN DESIGN PACKAGE.

(6) THERMOPLASTIC SHARED USE PATH MARKER. SEE URBAN DESIGN PACKAGE.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN PACKAGE.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 105–106.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN PACKAGE.

(10) DECORATIVE STAMPED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

(11) PEDESTRIAN RAILING. SEE URBAN DESIGN PACKAGE.

(13) RETAINING WALL. SEE URBAN DESIGN PACKAGE.

(14) FENCE.

(15) GUARDRAIL. SEE URBAN DESIGN PACKAGE.

(17) DECORATIVE SANDBLASTED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

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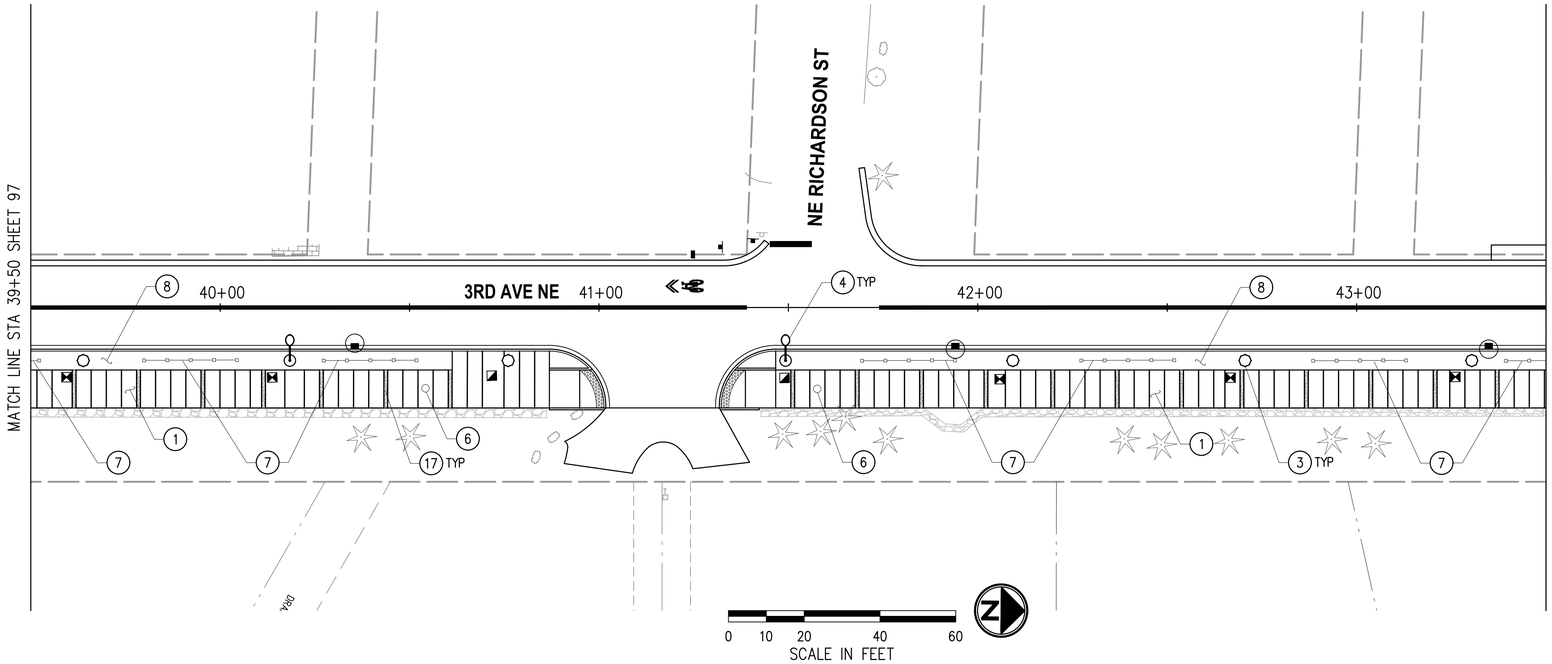
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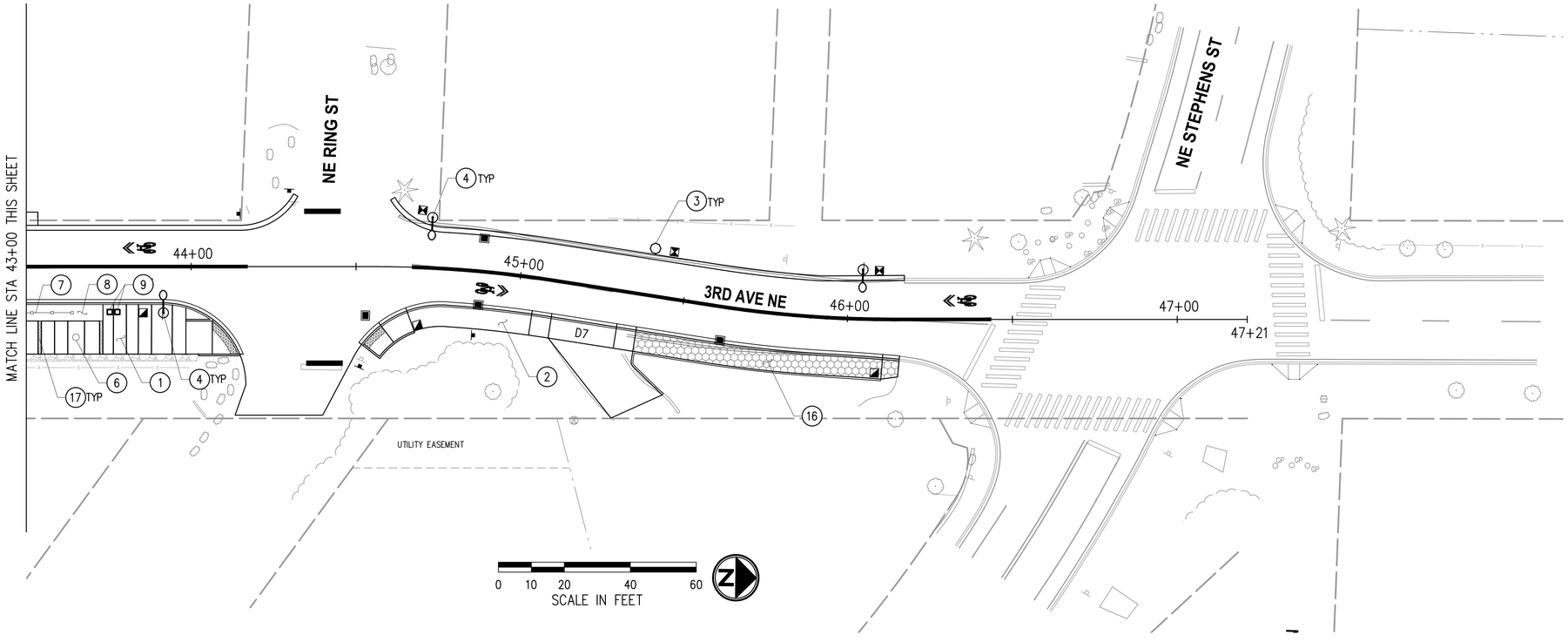
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GENERAL NOTES

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3. NOTE 3

CONSTRUCTION NOTES

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(2) CEMENT CONC SIDEWALK. SEE SECTIONS, SHEETS 5–7.

(3) DECORATIVE PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(6) THERMOPLASTIC SHARED USE PATH MARKER. SEE URBAN DESIGN PACKAGE.

(7) 2–RAIL POLE FENCE. SEE URBAN DESIGN PACKAGE.

(8) PLANTER. SEE LANDSCAPE PLANS AND DETAILS, SHEETS 105–106.

(9) TRASH AND RECYCLE RECEPTACLE. SEE URBAN DESIGN PACKAGE.

(16) PERVIOUS CONC SIDEWALK.

(17) DECORATIVE SANDBLASTED CEMENT CONCRETE TREATMENT. SEE URBAN DESIGN PACKAGE.

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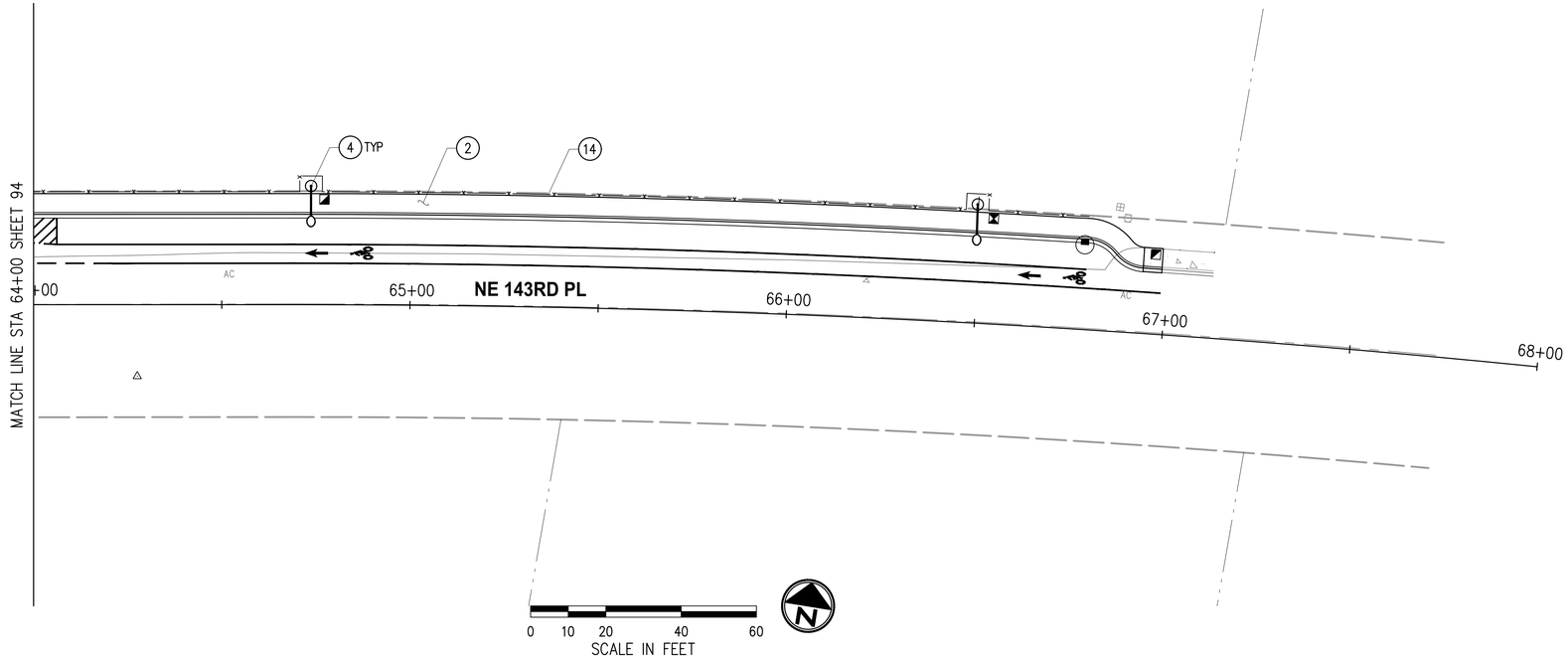
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(4) DECORATIVE ROADWAY AND PEDESTRIAN LUMINAIRE & POLE. SEE ILLUMINATION DETAILS, SHEETS 91–93.

(14) FENCE.

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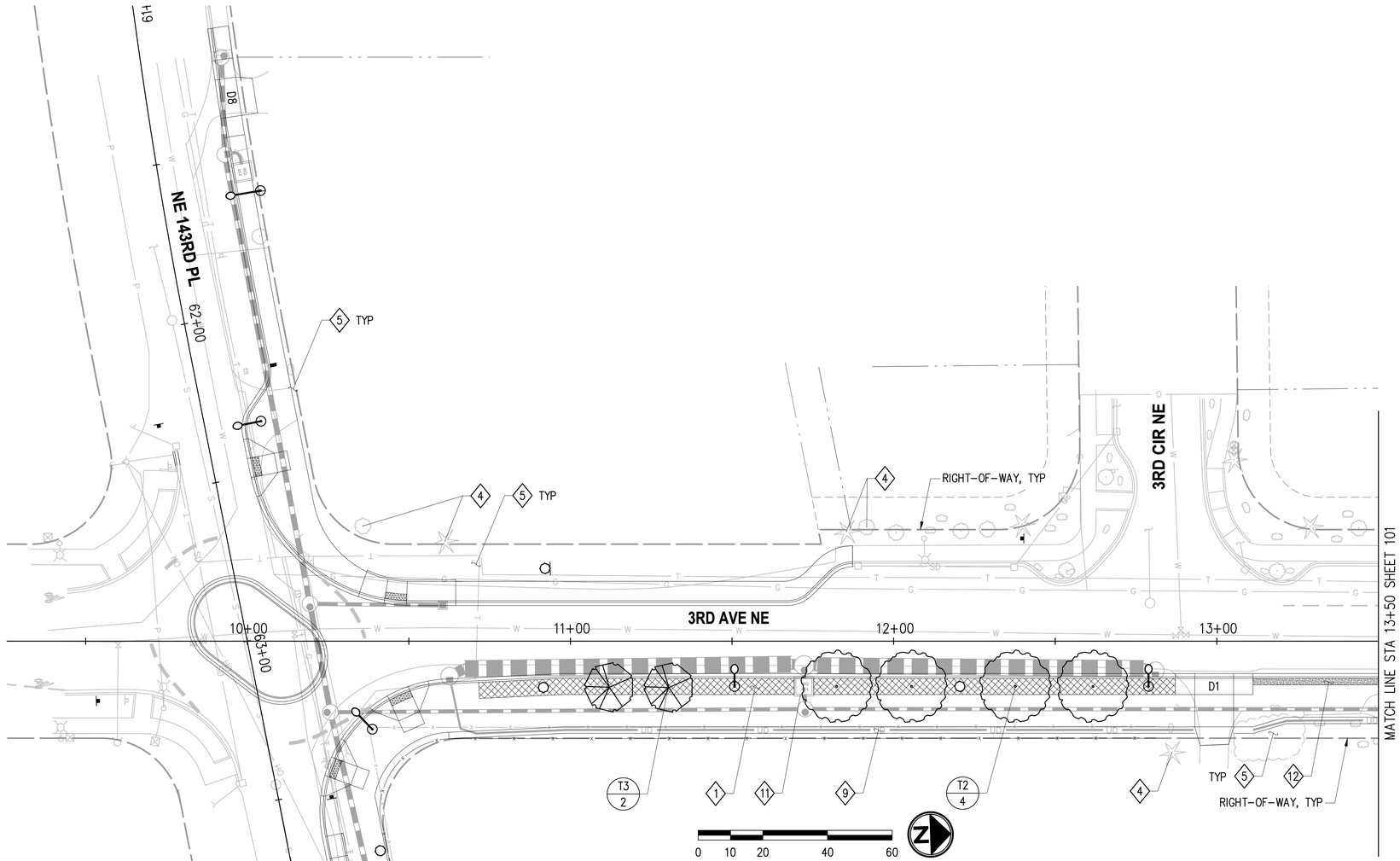
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

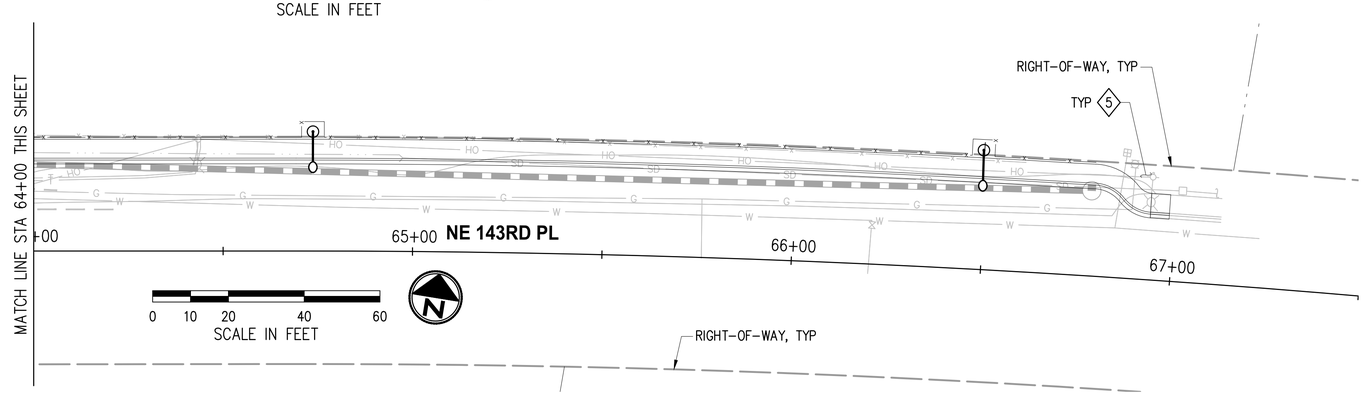
URBAN DESIGN PLAN
STA 64+00 TO STA 68+00

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CONSTRUCTION NOTES

1. ROADWAY PLANTER TYPE 1; INSTALL 24" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
4. EXISTING TREE TO REMAIN. SAVE AND PROTECT PER DETAIL, SHEET 18.
5. BACK-OF-WALK RESTORATION, TBD AT 90% DESIGN.
9. SHOULDER; SEE TYPICAL SECTIONS SHEETS 5-7.
11. MODULAR WETLAND WATER QUALITY UNIT; SEE STORMWATER PLANS AND DETAILS, SHEETS 30-49.
12. DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PACKAGE.





PLANT SYMBOL

A
1

PLANT QUANTITY

SEE SHEET 105-106 FOR PRELIMINARY PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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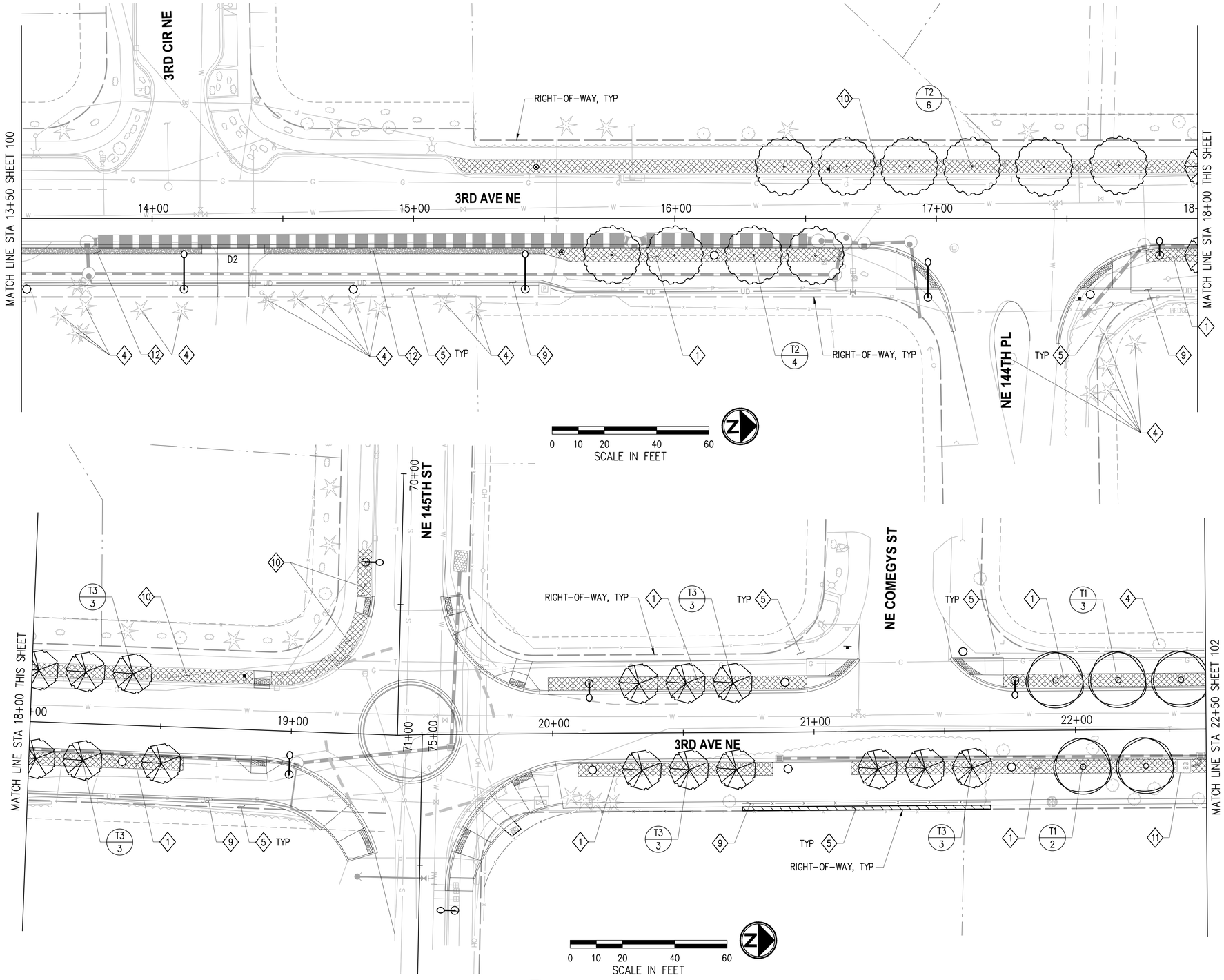
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LANDSCAPE PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 68+00

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CONSTRUCTION NOTES

1. ROADWAY PLANTER TYPE 1; INSTALL 24" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
4. EXISTING TREE TO REMAIN. SAVE AND PROTECT PER DETAIL, SHEET 18.
5. BACK-OF-WALK RESTORATION, TBD AT 90% DESIGN.
9. SHOULDER; SEE TYPICAL SECTIONS SHEETS 5-7.
10. EXISTING ROADWAY PLANTER; CLEAR AND GRUB EXISTING VEGETATION AND INSTALL TOPSOIL TYPE A TO DEPTH REQUIRED TO BRING FINISH GRADE TO 3" BELOW TOP OF ADJACENT CURB/SIDEWALK. TOPDRESS WITH 2" BARK OR WOOD CHIP MULCH, TYP.
11. MODULAR WETLAND WATER QUALITY UNIT; SEE STORMWATER PLANS AND DETAILS, SHEETS 30-49.
12. DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PACKAGE.

SEE SHEET 105-106 FOR PRELIMINARY PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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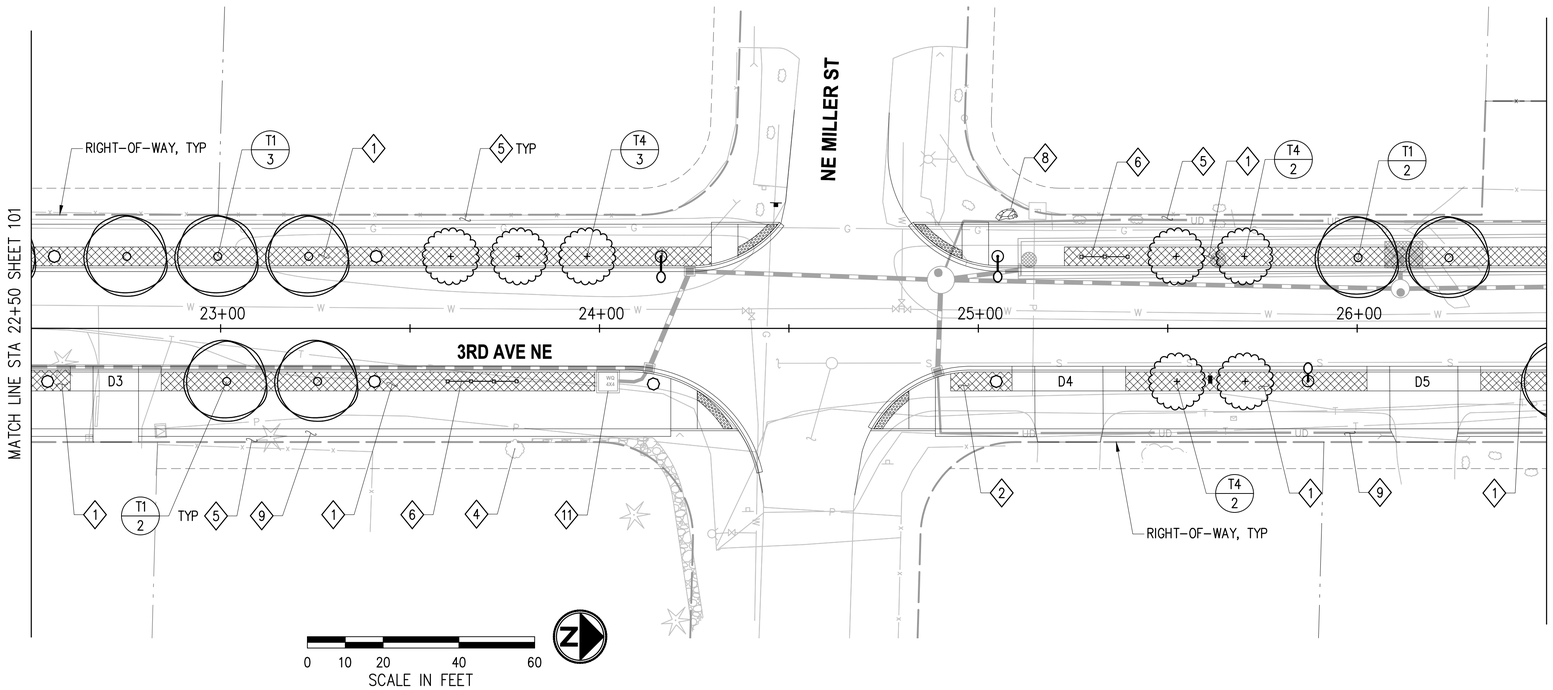
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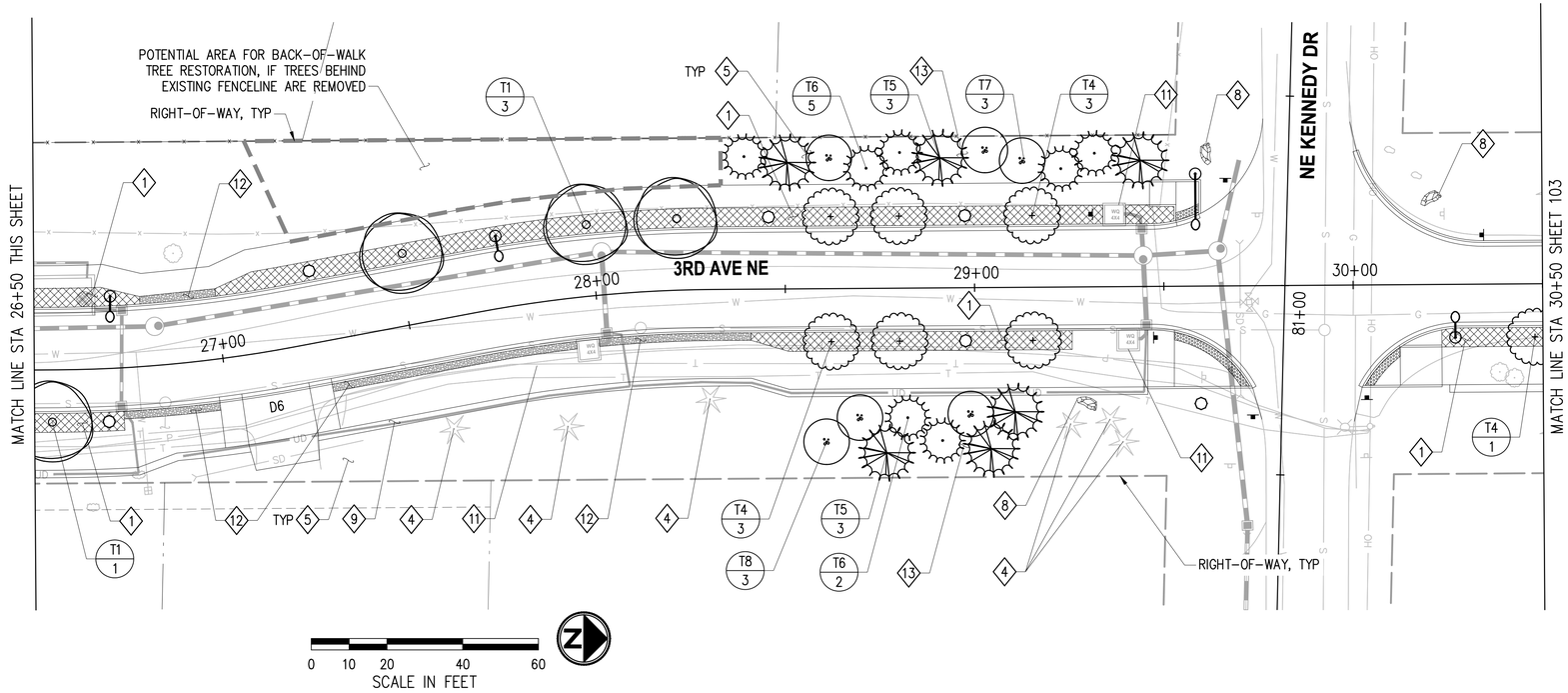
LANDSCAPE PLAN
STA 13+50 TO STA 22+50

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CONSTRUCTION NOTES

1. ROADWAY PLANTER TYPE 1; INSTALL 24" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
2. ROADWAY PLANTER TYPE 2; INSTALL 12" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
4. EXISTING TREE TO REMAIN. SAVE AND PROTECT PER DETAIL, SHEET 18.
5. BACK-OF-WALK RESTORATION, TBD AT 90% DESIGN.
6. TWO RAIL POLE FENCE; SEE URBAN DESIGN PACKAGE.
8. BOULDER BENCH; SEE URBAN DESIGN PACKAGE.
9. SHOULDER; SEE TYPICAL SECTIONS SHEETS 5-7.
11. MODULAR WETLAND WATER QUALITY UNIT; SEE STORMWATER PLANS AND DETAILS, SHEETS 30-49.
12. DECORATIVE STAMPED CONCRETE; SEE URBAN DESIGN PACKAGE.
13. POTENTIAL AREA FOR ADDITIONAL BACK-OF-WALK TREE PLANTING; LAYOUT TO BE FINALIZED AT 90% DESIGN.

PLANT SYMBOL
PP
60
PLANT QUANTITY

SEE SHEET 105-106 FOR PRELIMINARY PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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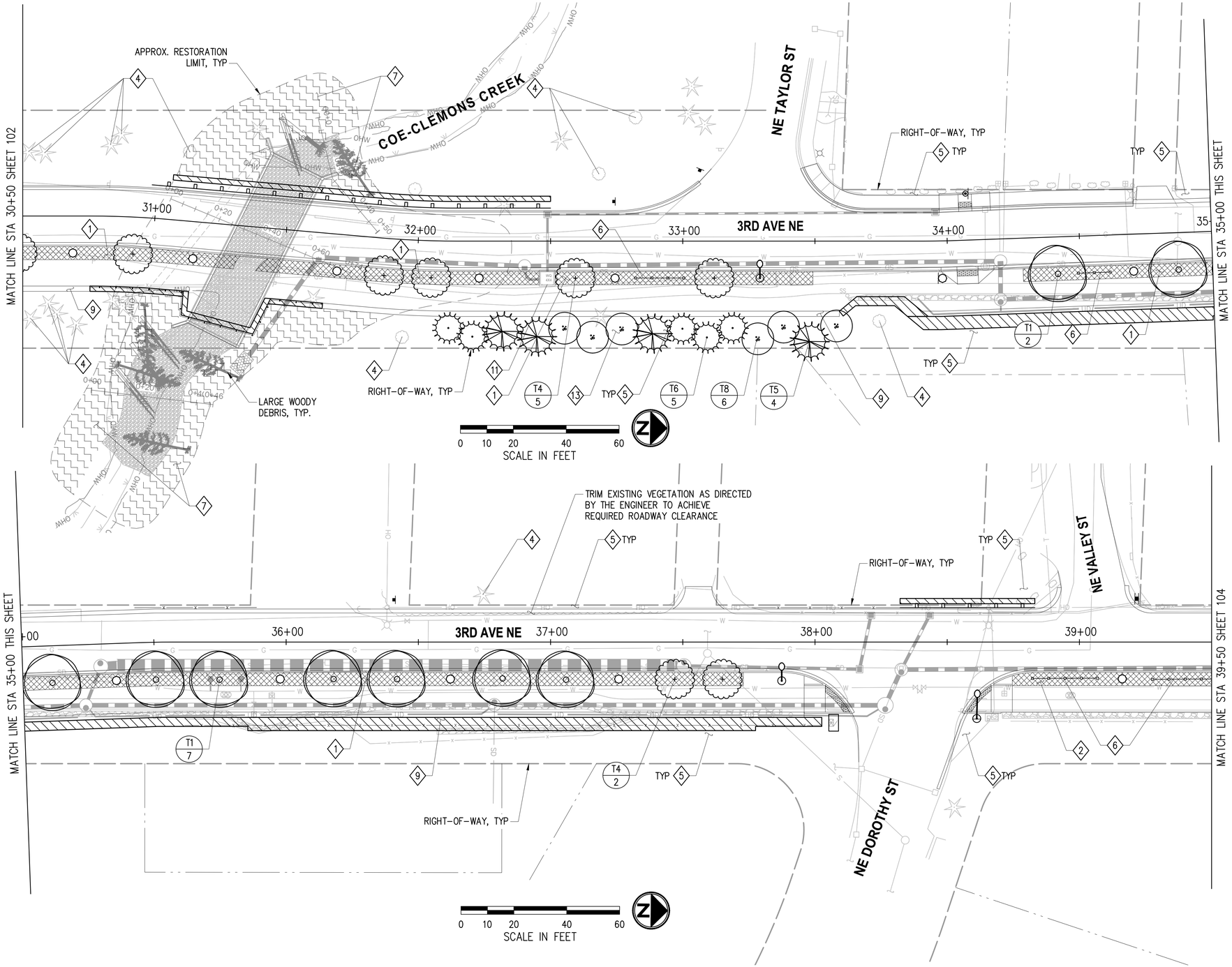
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LANDSCAPE PLAN
STA 22+50 TO STA 30+50

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CONSTRUCTION NOTES

1. ROADWAY PLANTER TYPE 1; INSTALL 24" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
2. ROADWAY PLANTER TYPE 2; INSTALL 12" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
4. EXISTING TREE TO REMAIN. SAVE AND PROTECT PER DETAIL, SHEET 18.
5. BACK-OF-WALK RESTORATION, TBD AT 90% DESIGN.
6. TWO RAIL POLE FENCE; SEE URBAN DESIGN PACKAGE.
7. STREAM RESTORATION PLANTING AREA (LIMITS TO BE FINALIZED AT NEXT SUBMITTAL); AMEND NATIVE SOIL WITH 3" FINE COMPOST AS OUTLINED IN THE SPECIAL PROVISIONS AND TOPDRESS WITH 3" ARBORIST WOOD CHIP MULCH, TYP. INSTALL BIODEGRADABLE EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 3:1, TYP.
9. SHOULDER; SEE TYPICAL SECTIONS SHEETS 5-7.
11. MODULAR WETLAND WATER QUALITY UNIT; SEE STORMWATER PLANS AND DETAILS, SHEETS 30-49.
13. POTENTIAL AREA FOR ADDITIONAL BACK-OF-WALK TREE PLANTING; LAYOUT TO BE FINALIZED AT 90% DESIGN.

PLANT SYMBOL
PP
60
PLANT QUANTITY

SEE SHEET 105-106 FOR PRELIMINARY PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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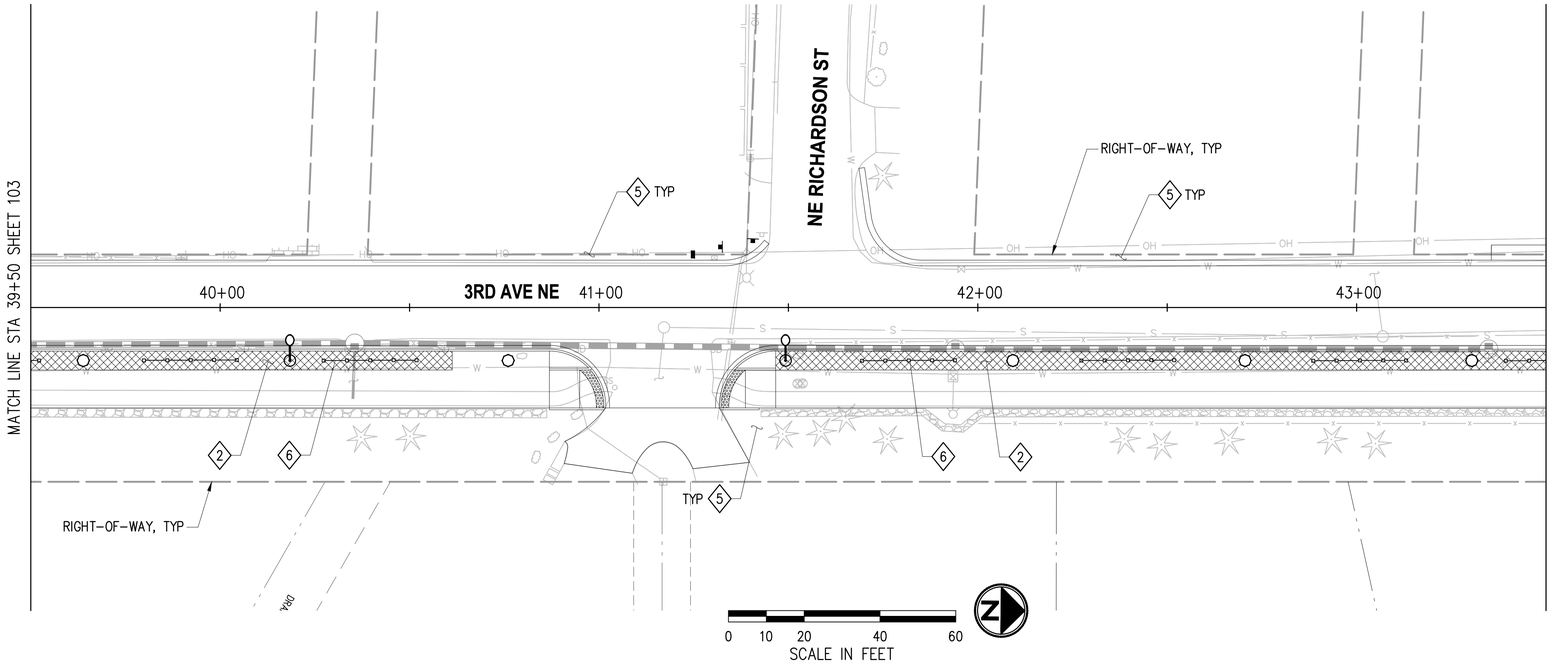
LANDSCAPE PLAN
STA 30+50+00 TO STA 39+50

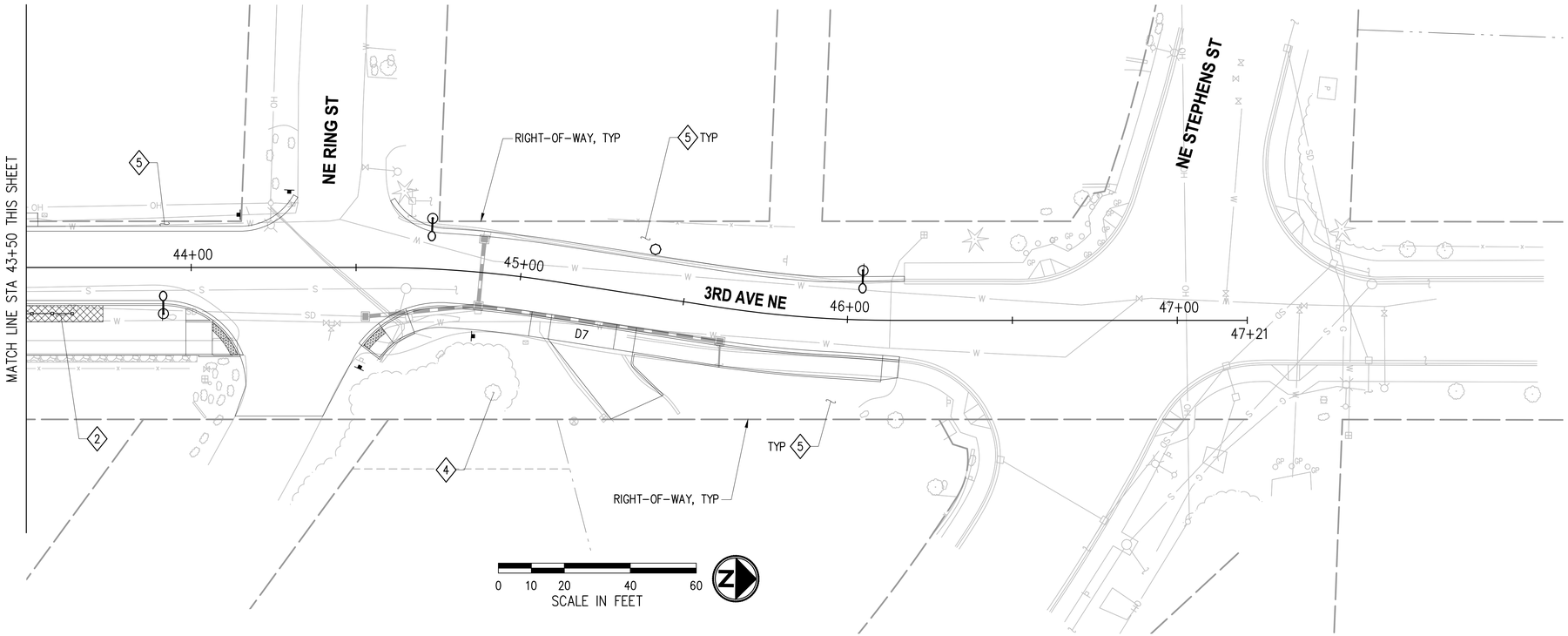
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CONSTRUCTION NOTES

2. ROADWAY PLANTER TYPE 2; INSTALL 12" TOPSOIL TYPE A AND 2" BARK OR WOOD CHIP MULCH, TYP.
4. EXISTING TREE TO REMAIN. SAVE AND PROTECT PER DETAIL, SHEET 18.
5. BACK-OF-WALK RESTORATION, TBD AT 90% DESIGN.
6. TWO RAIL POLE FENCE; SEE URBAN DESIGN PACKAGE.





PLANT SYMBOL
PP
60
PLANT QUANTITY

SEE SHEET 105-106 FOR PRELIMINARY PLANTING SCHEDULE, DETAILS, AND GENERAL NOTES.

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PRELIMINARY TREE SCHEDULE

SYMBOL		BOTANICAL NAME/ COMMON NAME	QTY	SIZE	REMARKS
	STREET TREES				
	T1	LIRIODENDRON TULIPIFERA 'JFS-OZ' / EMERALD CITY TULIP TREE	14	2 1/2" CAL. 12'-14' HT.	B&B, WELL BRANCHED
	T2	NYSSA SYLVATICA 'DAVID ODOM' / AFTERBURNER TUPELO	25	2 1/2" CAL. 12'-14' HT.	B&B, WELL BRANCHED
	ACCENT TREES				
	T3	CERCIDIPHYLLUM JAPONICUM 'HANNA'S HEART' / HANNA'S HEART KATSURA	17	2" CAL. 10'-12" HT.	B&B, WELL BRANCHED
	T4	PRUNUS SARGENTII 'JFS-KW58' / PINK FLAIR CHERRY	21	2" CAL. 10'-12" HT.	B&B, WELL BRANCHED
	BACK-OF-WALK RESTORATION TREES*				
	T5	TSUGA MERTENSIANA / MOUNTAIN HEMLOCK	10	6'-7' HT.	B&B, WELL BRANCHED
	T6	THUJA PLICATA 'EXCELSA' / EXCELSA WESTERN RED CEDAR	12	6'-7' HT.	B&B, WELL BRANCHED
	T7	ACER CIRCINATUM / VINE MAPLE	3	7'-8' HT.	3-5 CANES MIN. 1" MIN. CAL. PER CANE
	T8	RHAMNUS PURSHIANA / CASCARA	9	7'-8' HT.	3-5 CANES MIN. 1" MIN. CAL. PER CANE

*NOTE: QUANTITY AND LOCATIONS OF BACK-OF-WALK RESTORATION TREES TO BE FINALIZED AT NEXT SUBMITTAL

PRELIMINARY ROADWAY PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/ COMMON NAME	QTY	SIZE	REMARKS
	SHRUBS				
1,770 SY		ESCALLONIA X 'NEWPORT DWARF' / NEWPORT DWARF ESCALLONIA		2 GAL CONT.	42" O.C. TRI. SP. TYP.
		RHODODENDRON X 'PERCY WISEMAN' / PERCY WISEMAN RHODODENDRON		2 GAL CONT.	42" O.C. TRI. SP. TYP.
		DEUTZIA GRACILIS 'NIKKO' / NIKKO DEUTZIA		2 GAL CONT.	42" O.C. TRI. SP. TYP.
		NANDINA DOMESTICA 'LEMON-LIME'/ LEMON-LIME NANDINA		2 GAL CONT.	36" O.C. TRI. SP. TYP.
		DISTYLIUM X 'PIIDIST-V' / CINNAMON GIRL DISTYLIUM		2 GAL CONT.	36" O.C. TRI. SP. TYP.
		CORNUS SERICEA 'KELSEYI' / KELSEY'S DWARF RED TWIG DOGWOOD		2 GAL CONT.	24" O.C. TRI. SP. TYP.
		BERBERIS THUNBERGII 'CONCORDE' / CONCORDE BARBERRY		2 GAL CONT.	24" O.C. TRI. SP. TYP.
	GRASSES, PERENNIALS & GROUNDCOVERS				
		SESLERIA AUTUMNALIS / AUTUMN MOOR GRASS		1 GAL CONT.	24" O.C. TRI. SP. TYP.
		EPIMEDIUM X PERRALCHICUM 'FROHNLEITEN' / FROHNLEITEN EPIMEDIUM		1 GAL CONT.	18" O.C. TRI. SP. TYP.
		RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC		1 GAL CONT.	42" O.C. TRI. SP. TYP.
		PRUNUS LAUROCERASUS 'MOUNT VERNON' / MOUNT VERNON ENGLISH LAUREL		1 GAL CONT.	30" O.C. TRI. SP. TYP.
		POLYSTICHUM MUNITUM / WESTERN SWORD FERN		1 GAL CONT.	24" O.C. TRI. SP. TYP.
		MAHONIA REPENS / CREEPING MAHONIA		1 GAL CONT.	24" O.C. TRI. SP. TYP.

GENERAL NOTES

1. ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
2. PLAN, MAINTAIN AND WARRANTY PER SECTION 8-02 OF THE SPECIAL PROVISIONS.
3. DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
4. INSTALL 2" BARK OR WOOD CHIP MULCH OVER ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED, UNLESS OTHERWISE NOTED.
5. PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE ENGINEER.
6. ALL STREET TREES SHALL MEET WSDOT "STREET TREE GRADE" STANDARD AND SHALL BRANCH AT MIN 6' HT. ABOVE FINISH GRADE.

PRELIMINARY STREAM RESTORATION PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/ COMMON NAME	QTY	SIZE	REMARKS
	TREES*				
500 SY		ACER MACROPHYLLUM/ BIG-LEAF MAPLE (30%)		5 GAL CONT.	10' O.C. TRI. SP. TYP.
		RHAMNUS PURSHIANA/ CASCARA (15%)		5 GAL CONT.	10' O.C. TRI. SP. TYP.
		THUJA PLICATA/ WESTERN REDCEDAR (40%)		5 GAL CONT.	10' O.C. TRI. SP. TYP.
		TSUGA HETEROPHYLLA/ WESTERN HEMLOCK (15%)		5 GAL CONT.	10' O.C. TRI. SP. TYP.
	SHRUBS*				
		ACER CIRCINATUM/ VINE MAPLE		1 GAL CONT.	72" O.C. TRI. SP. TYP.
		CORYLUS CORNUTA/ BEAKED HAZELNUT		1 GAL CONT.	60" O.C. TRI. SP. TYP.
		OEMLERIA CERASIFORMIS/ OSOBERRY		1 GAL CONT.	60" O.C. TRI. SP. TYP.
		SAMBUCUS RACEMOSA/ RED ELDERBERRY		1 GAL CONT.	60" O.C. TRI. SP. TYP.
		RUBUS SPECTABILIS/ SALMONBERRY		1 GAL CONT.	36" O.C. TRI. SP. TYP.
		POLYSTICHUM MUNITUM/ SWORDFERN		1 GAL CONT.	24" O.C. TRI. SP. TYP.
		PTERIDIUM AQUILINUM/ BRACKEN FERN		1 GAL CONT.	24" O.C. TRI. SP. TYP.

*NOTE: SEE STREAM RESTORATION PLANT LAYOUT DETAIL, SHEET 106.

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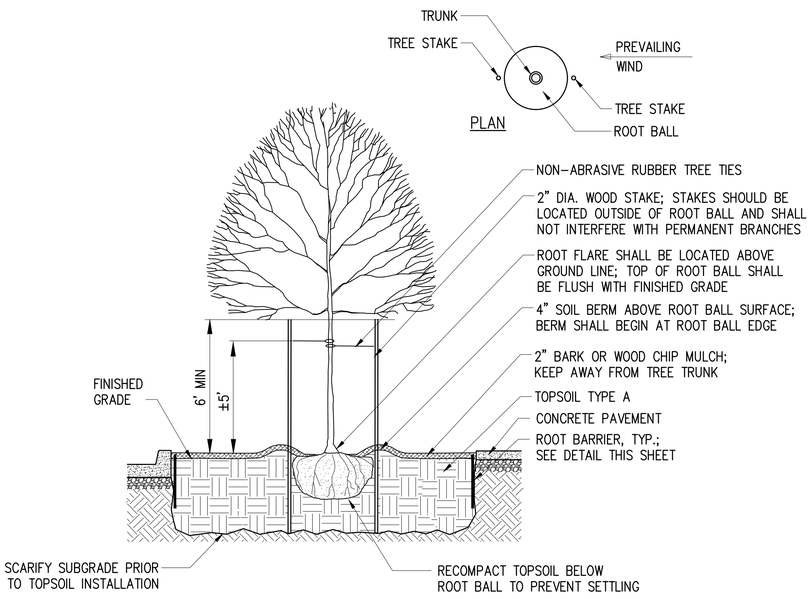
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LANDSCAPE DETAILS

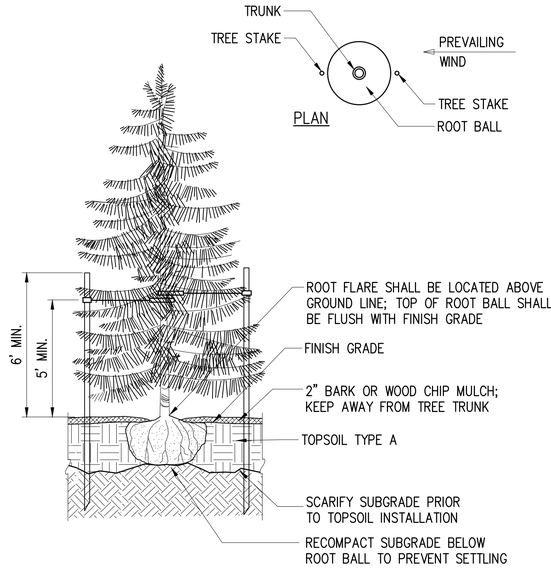
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TREE PLANTING NOTES

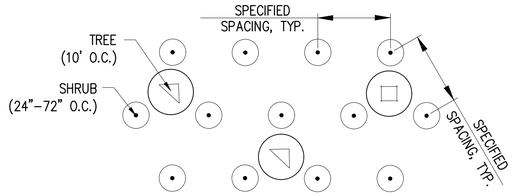
1. TREE PIT SHALL NOT BE LESS THAN (3) TIMES ROOTBALL DIAMETER.
2. CUT ALL TIES AND REMOVE BURLAP ROOTBALL.
3. REMOVE ALL PLASTIC AND TWINE.
4. BACKFILL TOPSOIL TYPE A AROUND ROOT BALL IN 6" LIFTS AND LIGHTLY RECOMPACT EACH LIFT; AFTER BACKFILLING, WATER IN ROOT BALL TO SETTLE THE SOIL.
5. PLANT TREES WITH ROOT FLARE ABOVE FINISHED GRADE; DO NOT COVER TOP OF ROOTBALL WITH SOIL.



TYPICAL STREET TREE PLANTING DETAIL
NTS



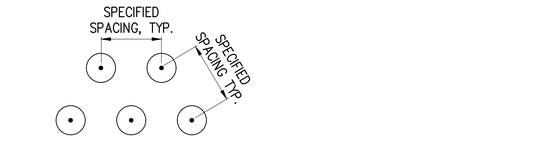
TYPICAL EVERGREEN TREE PLANTING DETAIL
NTS

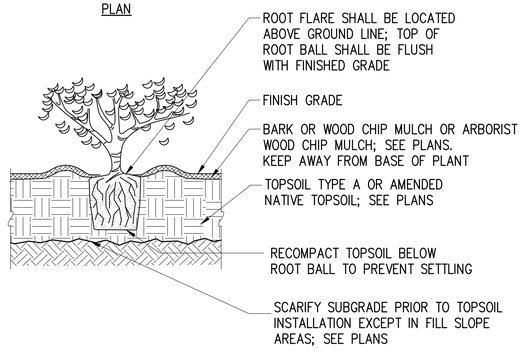


TYPICAL STREAM RESTORATION PLANT LAYOUT
NTS

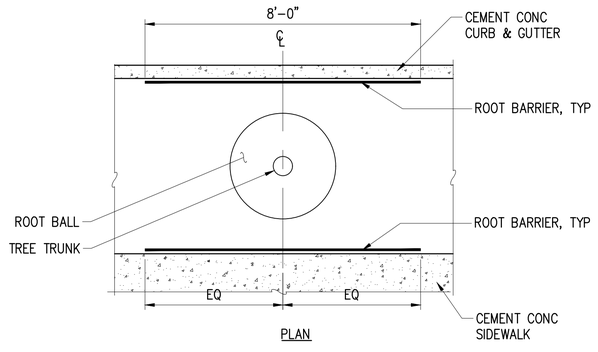
NOTES:

1. LAYOUT OF SHRUBS IS CONTINUOUS THROUGH TREES.
2. ADJUST SHRUBS AS NECESSARY TO PROVIDE MIN. 2' OFFSET FROM TREES.

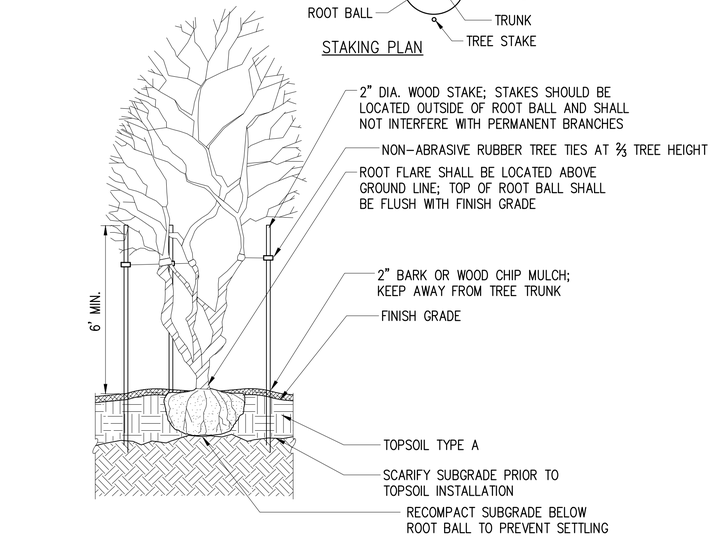




TYPICAL SHRUB/GROUNDCOVER PLANTING DETAIL
NTS



TYPICAL ROOT BARRIER DETAIL
NTS



TYPICAL MULTI-STEM TREE PLANTING DETAIL
NTS

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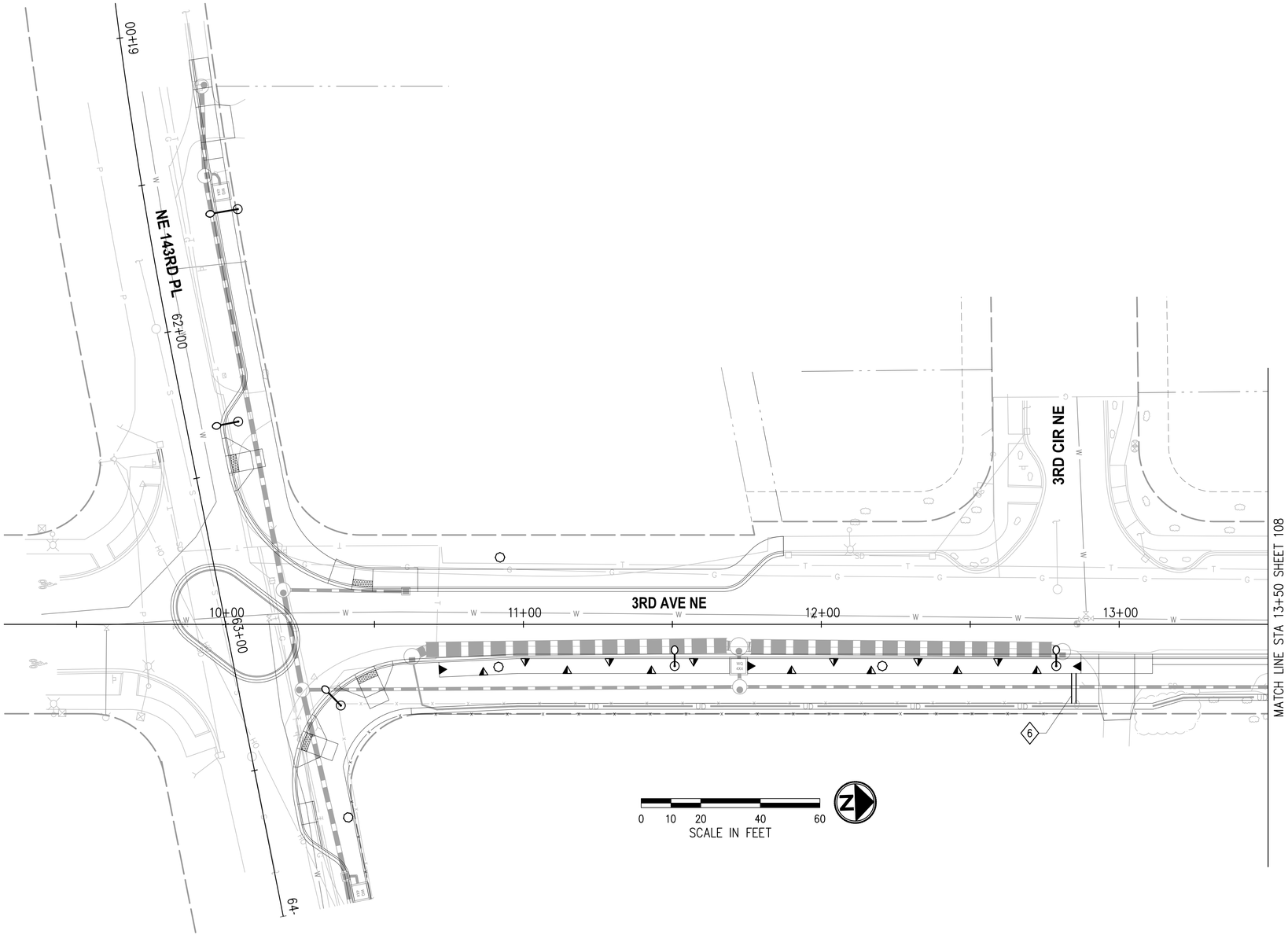
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

LANDSCAPE DETAILS

KPG PROJECT No. 21078

SHT 106 OF 129

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CONSTRUCTION NOTES

6 COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.

SPRAY IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL NO
◭ ▶	HUNTER END AND SIDE STRIP SERIES ES-515-06-PRS30-CV, SS-530-06-PRS30-CV
	AUTOMATIC CONTROL VALVE
— —	SCH 40 PVC MAINLINE
———	SCH 40 LATERAL LINE
= = =	SCH40 SLEEVE

PIPE SIZE CHART

GPM	SIZE
0 – 8	¾"
8 – 13	1"
13 – 22	1¼"
22 – 30	1½"
30 – 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS.

SEE SHEET 112 -113 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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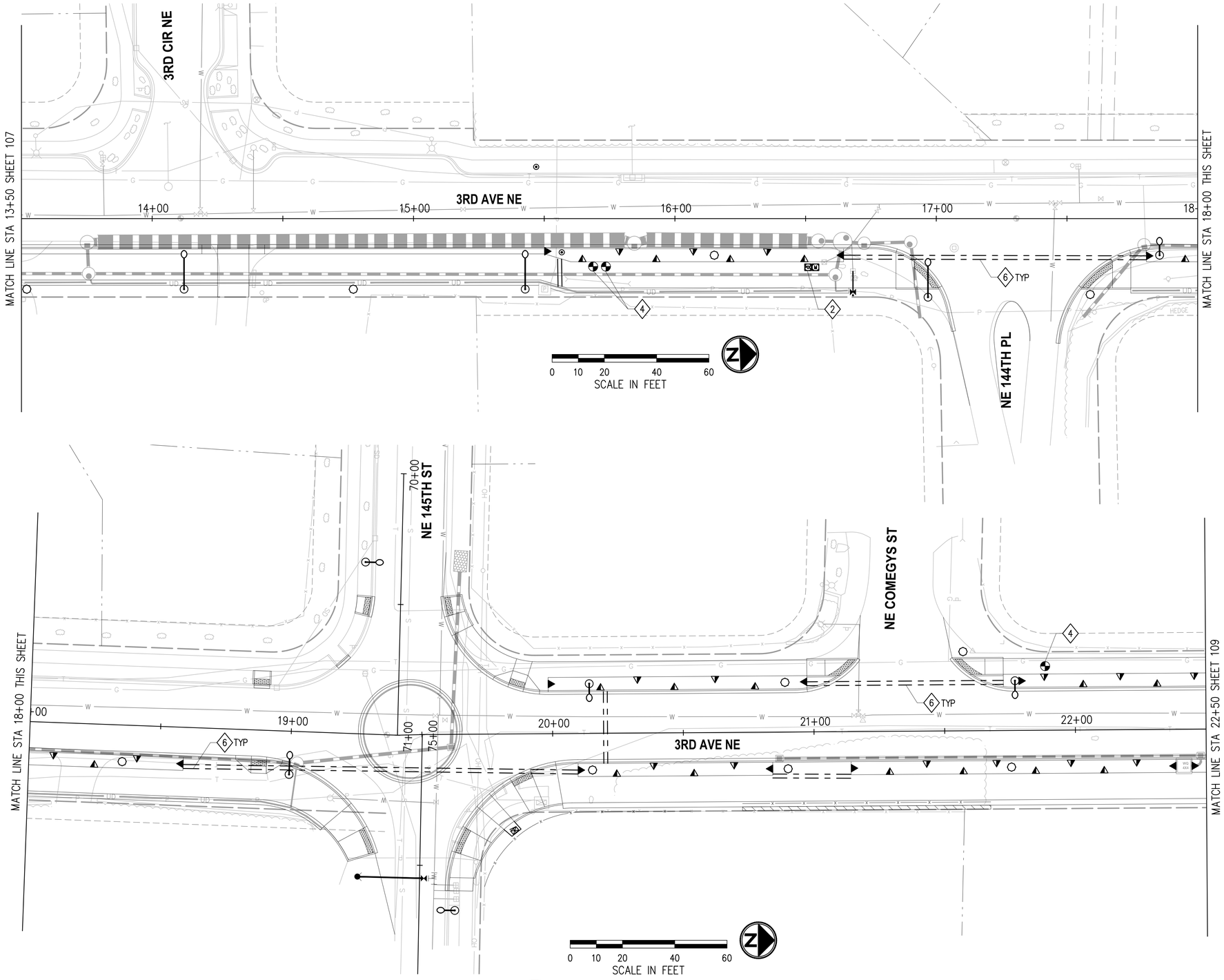
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

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CONSTRUCTION NOTES

2. INSTALL IRRIGATION METER AND POINT-OF-CONNECTION EQUIPMENT (POC) A; SEE DETAILS SHEET 112-113.
4. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
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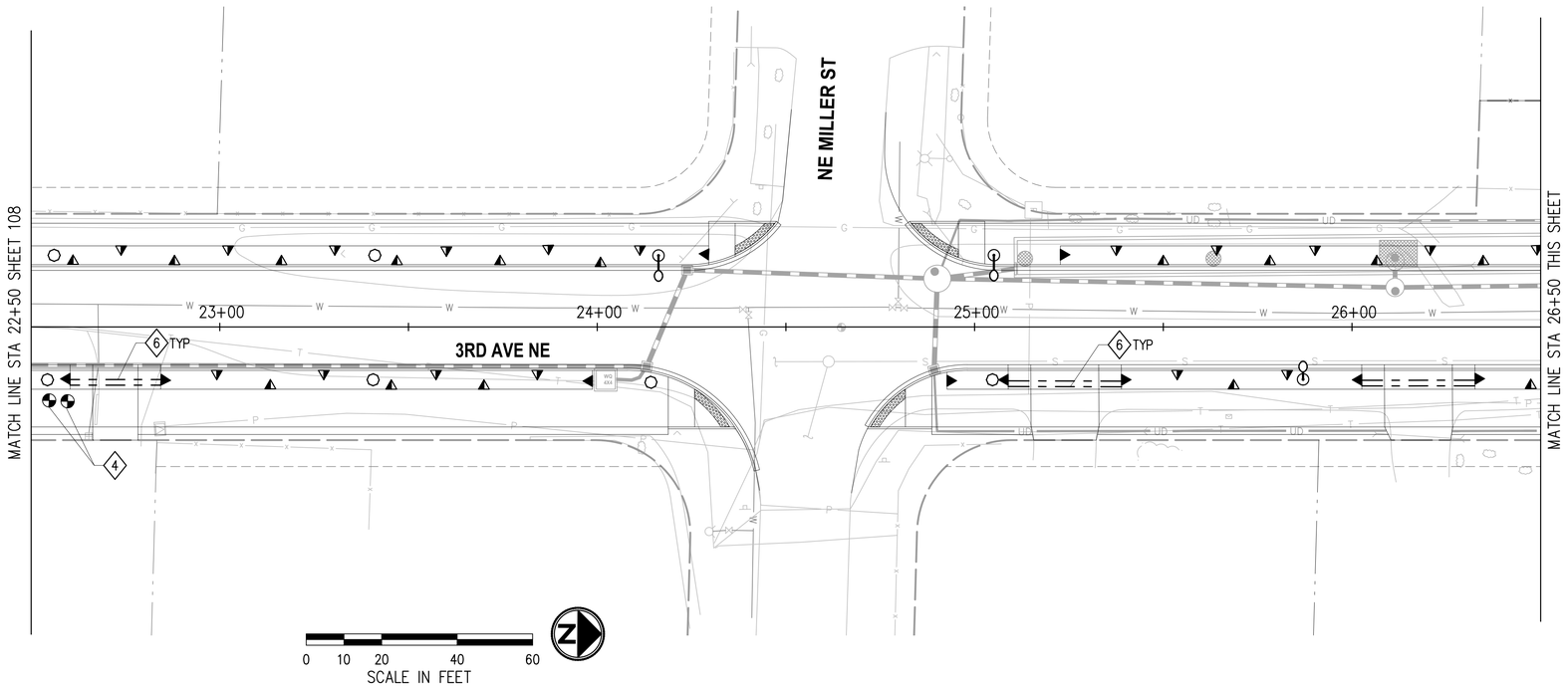
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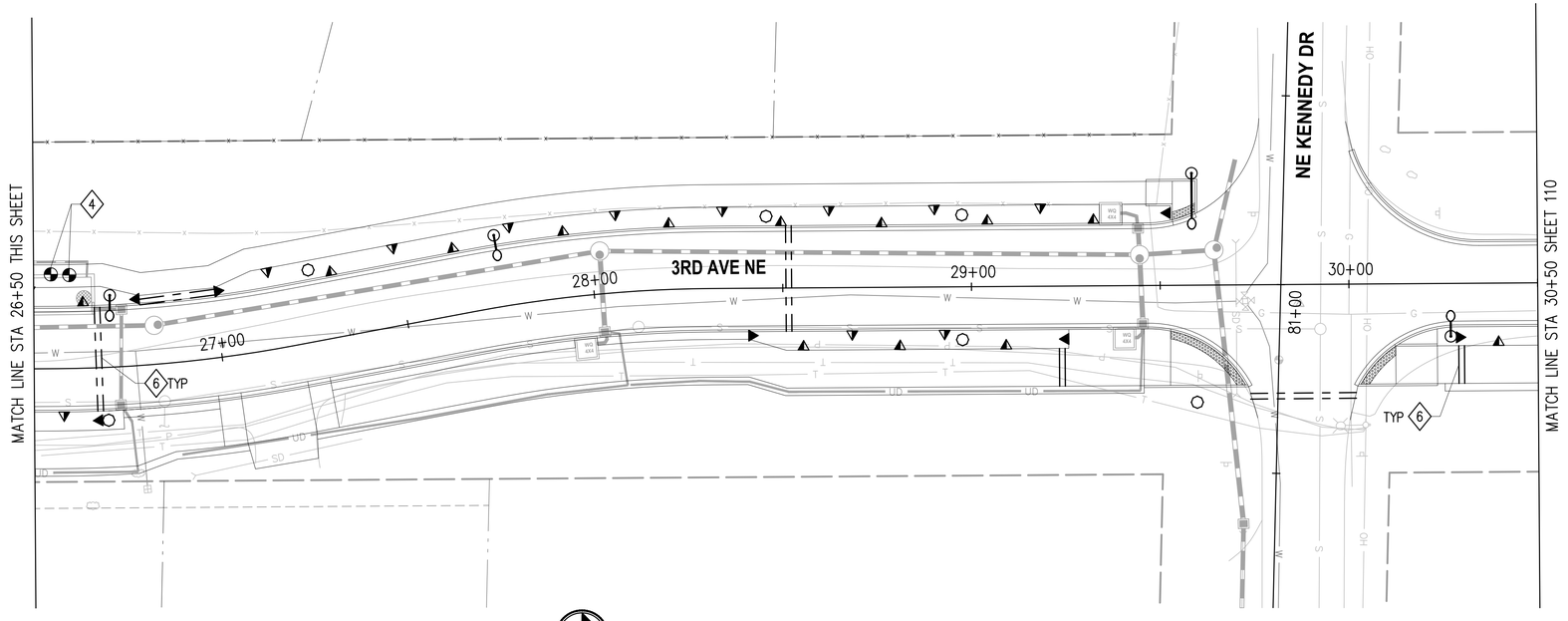
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION PLAN
STA 13+50 TO STA 22+50

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CONSTRUCTION NOTES

4. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.

6. COORDINATE SLEEVING, MAIN LINE AND LATERAL LINE INSTALLATION WITH ILLUMINATION CONDUIT AND FOOTING LOCATIONS.

SPRAY IRRIGATION LEGEND

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SEE SHEET 112 -113 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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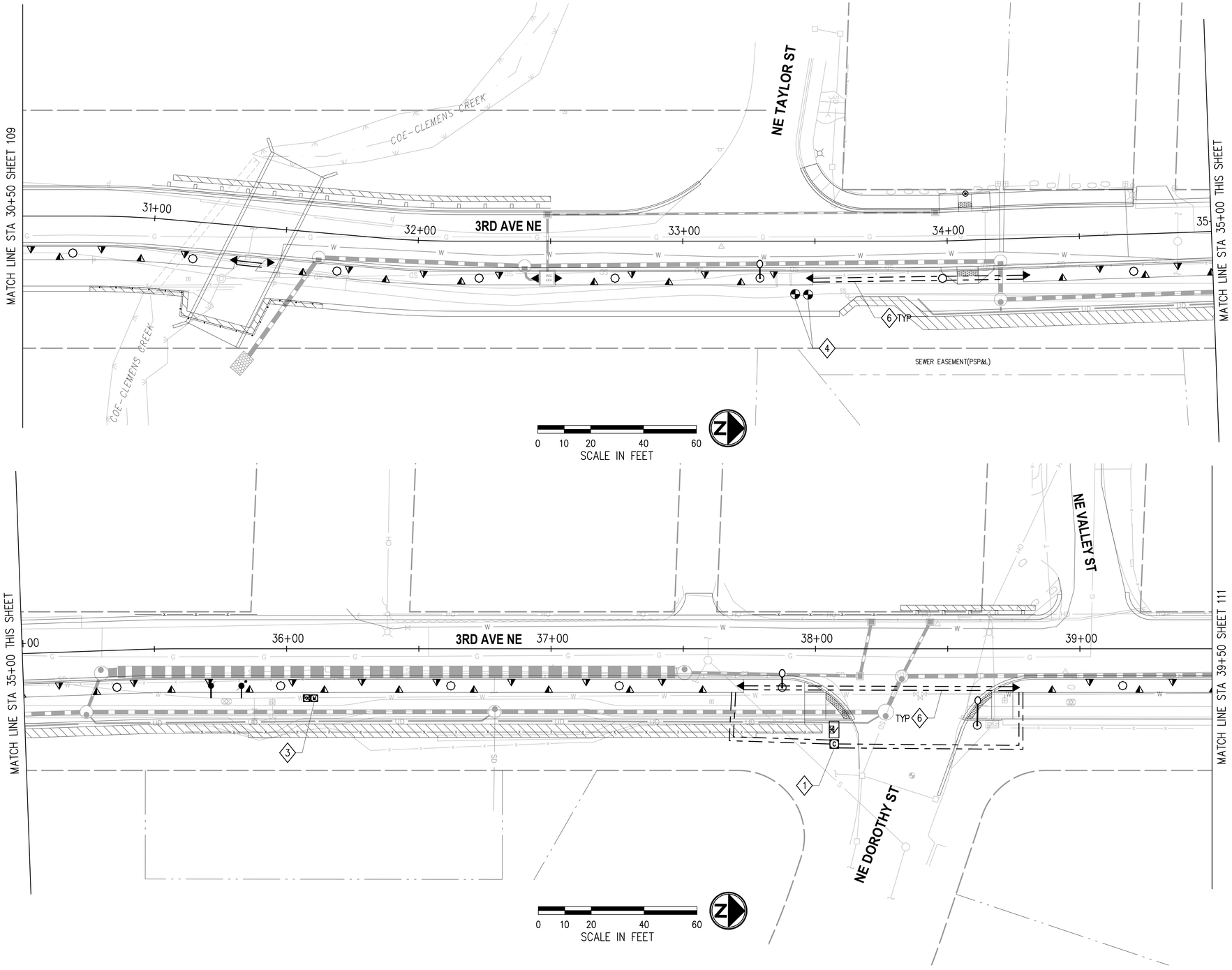
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IRRIGATION PLAN
STA 22+50 TO STA 30+50

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SHT 109 OF 129

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CONSTRUCTION NOTES

1. INSTALL IRRIGATION CONTROLLER, SEE DETAILS SHEET 112–113 AND ILLUMINATION PLANS FOR ELECTRICAL CONNECTION. VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
3. INSTALL IRRIGATION METER AND POINT–OF–CONNECTION EQUIPMENT (POC) B; SEE DETAILS SHEET 112–113.
4. INSTALL CONTROL VALVE BOX IN PLANTER AREA, TIGHT TO EDGE OF PLANTER OR BACK OF SIDEWALK TO MAXIMIZE PLANTING AREA; LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC.
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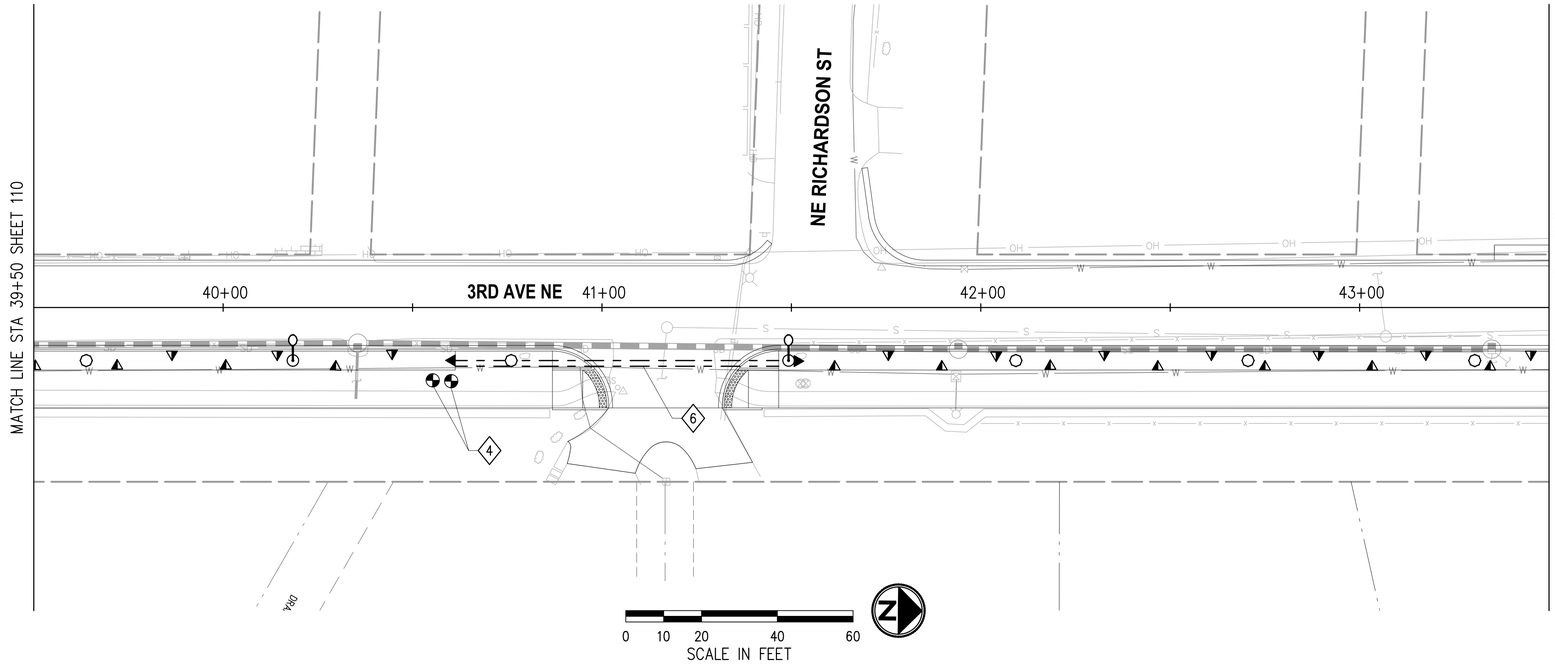
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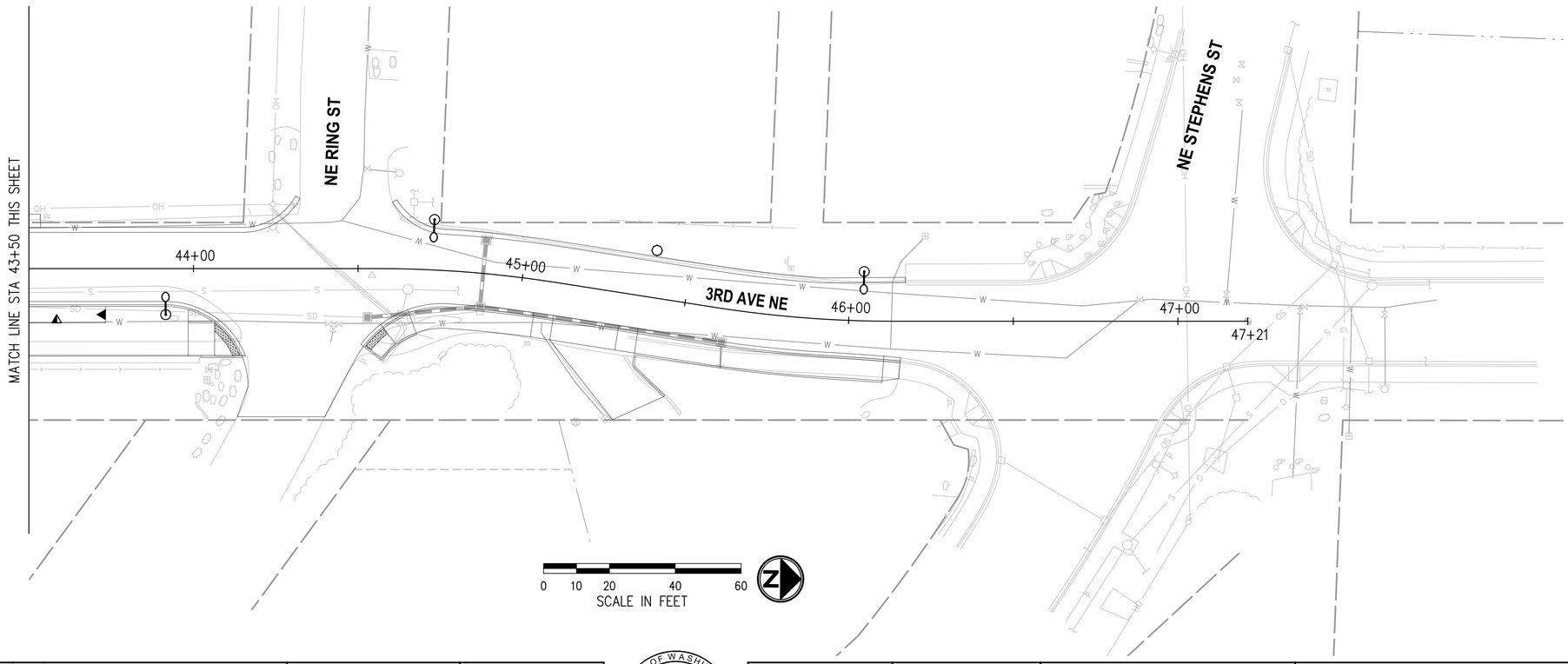
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IRRIGATION PLAN
STA 30+50+00 TO STA 39+50

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CONSTRUCTION NOTES

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SEE SHEET 112 -113 FOR IRRIGATION SCHEDULE, DETAILS AND GENERAL NOTES.

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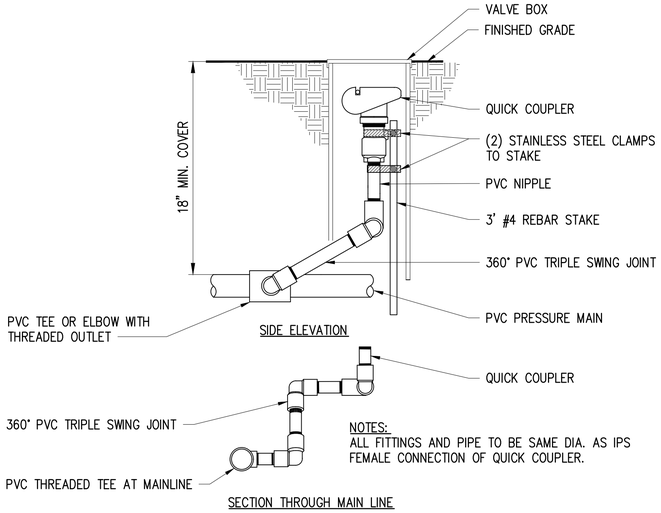
IRRIGATION PLAN
STA 39+50 TO STA 47+20

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IRRIGATION LEGEND

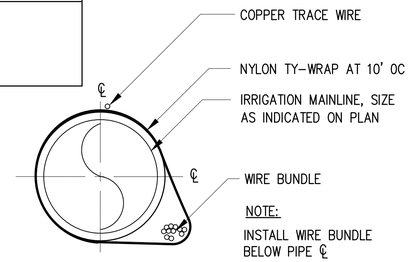
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION
▲ SS ▲ SST	HUNTER STRIP PATTERN NOZZLES OR APPROVED EQUAL	ES-515-06-PRS30-CV, SS-530-06-PRS30-CV	SHRUB NOZZLE – 6" PLASTIC POP-UP. 5'x'15' (ES) AND 5'x30' (SS) AT 30 PSI. SIDE AND END STRIP NOZZLE, INSTALL PER FLEXIBLE RISER DETAIL THIS SHEET.
C	RAINBIRD	ESP-LXD SERIES 2-WIRE DECODER & LXMMPED PED	TWO WIRE DECODER CONTROLLER(S), TWO REQUIRED WITH STAINLESS STEEL METAL PEDESTAL/CABINET ENCLOSURE, SEE INSTALLATION DETAIL, SHEET 113. SEE ILLUMINATION PLANS FOR ELECTRICAL CONNECTION.
	RAINBIRD OR APPROVED EQUAL	PEB W/ FD-101 OR 202	AUTOMATIC CONTROL VALVE – SIZE AS NOTED ON PLAN. SEE DETAIL, THIS SHEET. INSTALL WITH FIELD DECODER FOR TWO WIRE SYSTEM, FD-101, FD-202 (WITH GROUPED VALVES) INSTALL DECODER IN VALVE BOX WITH VALVES OR SEPARATE AS NECESSARY.
POC	POINT OF CONNECTION EQUIPMENT, TWO REQUIRED – POC A AND POC B. SEE ASSEMBLY DIAGRAM, THIS SHEET.		
M			1" IRRIGATION METER, 2 REQUIRED (A AND B)
V			MASTER SHUT OFF VALVE, SIZE PER LINE, SEE DETAIL THIS SHEET.
	FEBCO OR APPROVED EQUAL	850	1" BACK FLOW PREVENTION (2 REQUIRED), INSTALL IN LOCATION SHOWN. SEE DETAIL SHEET 113
Q	RAINBIRD	44LRC	1" BRASS QUICK COUPLER VALVE WITH LOCKING VINYL COVER. INSTALL PER DETAIL, THIS SHEET. INSTALL ONE AT EACH DOUBLE CHECK VALVE ASSEMBLY, AND AS NOTED ON PLANS.
			PVC SCH 40, IRRIGATION MAIN LINE – 24" MIN. COVER – SIZE AS NOTED ON PLAN.
			PVC SCH 40, LATERAL SUPPLY LINE– 18" MIN. COVER – SIZE AS NOTED ON PLAN.
			SLEEVING, PVC SCHEDULE 40, SIZE TWICE INSERT PIPE DIA.
1 / 10.5 / 1"	INDICATES VALVE # INDICATES APPROX. GPM INDICATES VALVE SIZE		



QUICK COUPLING VALVE/TRIPLE SWING JOINT
NTS

GENERAL NOTES

1. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH INSTALLATION OF OTHER UTILITIES. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES DURING INSTALLATION OF IRRIGATION SYSTEM.
2. CONTRACTOR MUST COORDINATE SLEEVING, ROAD CROSSING AND PIPE LOCATIONS WITH INSTALLATION OF UNDERGROUND UTILITIES (INCLUDING ELECTRICAL, SEWER, WATER AND GAS), SIDEWALK, URBAN DESIGN FEATURES AND ILLUMINATION.
3. IRRIGATION SYSTEM SHALL BE INSTALLED, TESTED, MAINTAINED AND GUARANTEED AS PER SPECIFICATIONS.
4. IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 25–30 PSI. CONTRACTOR SHALL FIELD CHECK EXISTING WATER PRESSURE, ADJUSTING PRESSURE REDUCING VALVE AS NECESSARY TO PROVIDE OPTIMAL PERFORMANCE.
5. LOCATION OF IRRIGATION MAINLINE, LATERALS, SLEEVING AND VALVES INDICATED ON DRAWING ARE DIAGRAMMATIC ONLY. ADJUST LOCATIONS AS NECESSARY. DO NOT OVERSPRAY ONTO PAVED SURFACES.
6. MAINLINE SHALL BE BURIED AT A DEPTH OF 24" BELOW FINISH GRADE. LATERAL LINES SHALL BE BURIED TO A DEPTH OF 18" BELOW FINISH GRADE.
7. SLEEVE UNDER ALL PAVED SURFACES AND CONCRETE SIDEWALK. SEE IRRIGATION PLANS FOR LOCATION OF PVC SLEEVING, SLEEVING SHALL BE 2 TIMES THE DIAMETER OF THE INSERT PIPE AND WIRES.
8. CONTROLLER WIRES SHALL BE TAPED TO IRRIGATION MAIN OR LATERAL LINES WHERE POSSIBLE. IF NOT AVAILABLE, WIRES TO CONTROLLER SHALL BE PLACED IN 1" /1.5" SLEEVE, USE 3M DBY SPLICE KITS.
9. ALL EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL. SYSTEM IS SPECIFICALLY DESIGNED FOR IRRIGATION EQUIPMENT SHOWN ON PLANS AND SUBSTITUTION WILL REQUIRE REDESIGN AND RECALCULATION OF IRRIGATION ZONES.

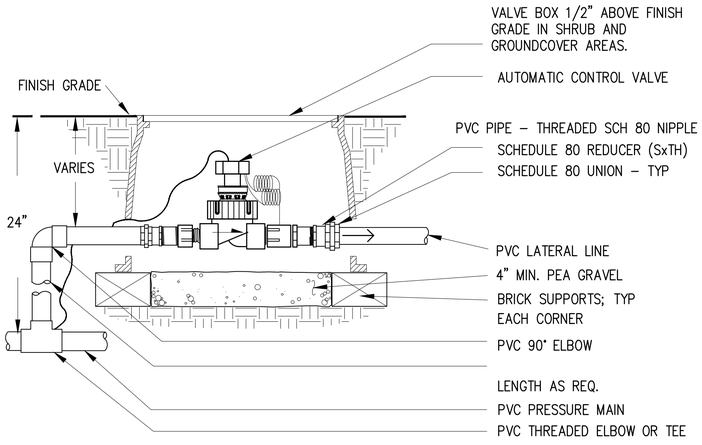


CONTROL WIRE BUNDLE INSTALLATION
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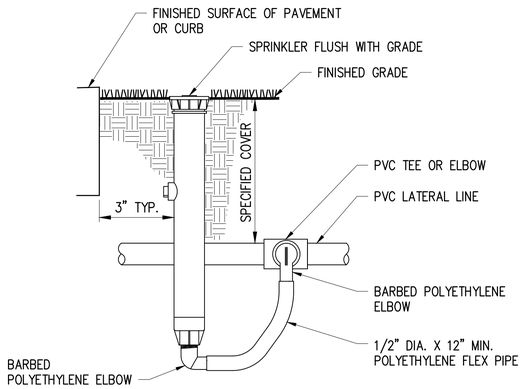
NOTE:
CONNECTION TO PRESSURE MAIN SHALL NOT BE MADE UNTIL IRRIGATION MAIN LINE IS PRESSURE TESTED.



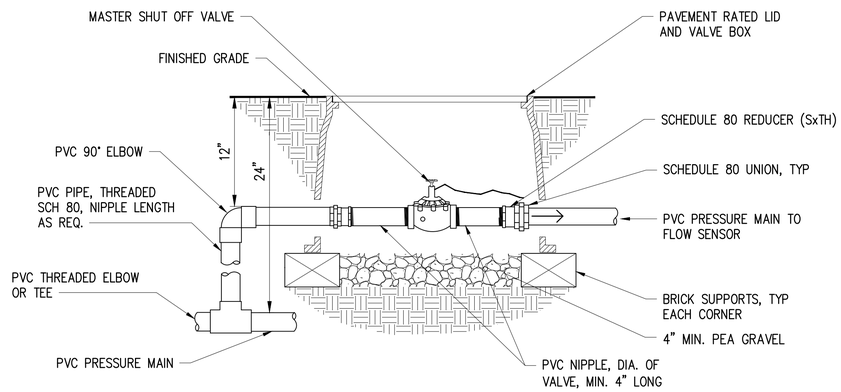
TYPICAL POINT OF CONNECTION ASSEMBLY
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AUTOMATIC CONTROL VALVE
NTS



TYPICAL FLEXIBLE RISER
NTS



MASTER SHUT OFF VALVE
NTS

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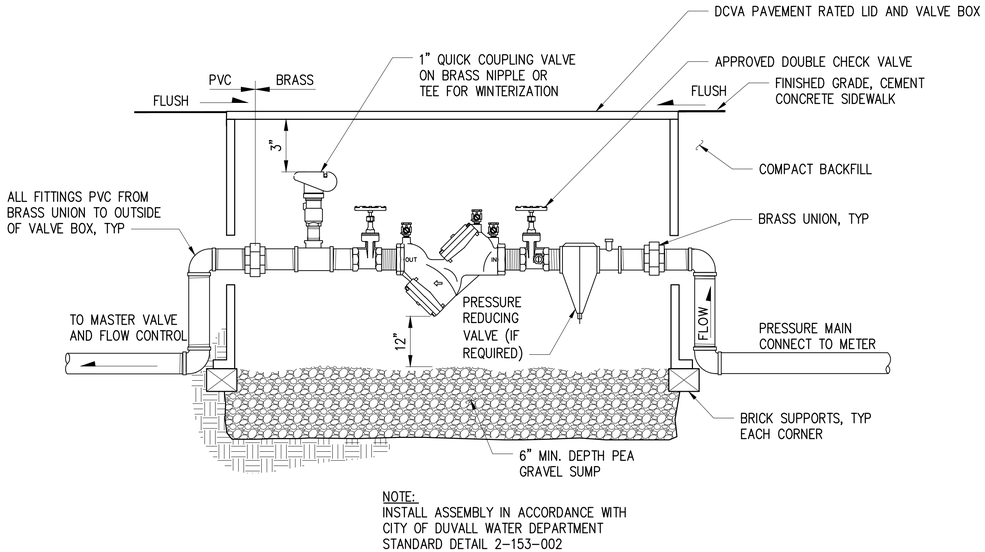
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION DETAILS

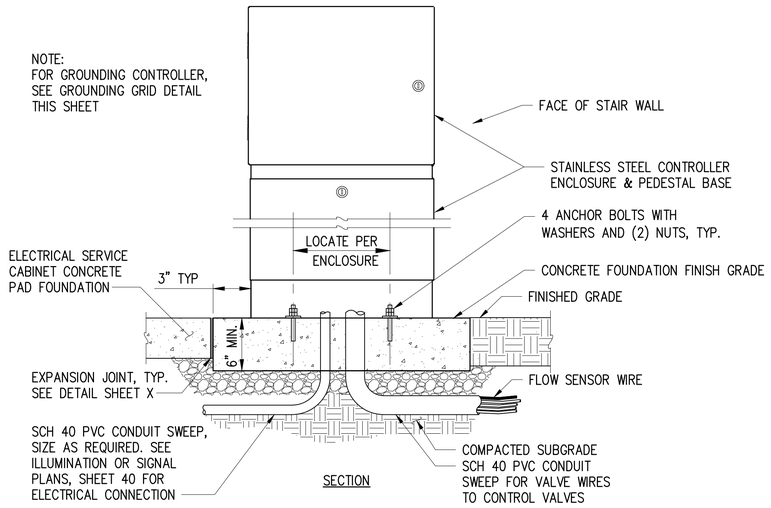
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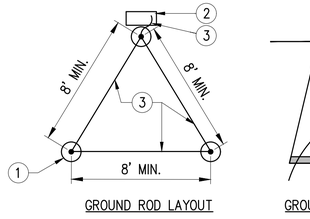


NOTE:
INSTALL ASSEMBLY IN ACCORDANCE WITH CITY OF DUVALL WATER DEPARTMENT STANDARD DETAIL 2-153-002

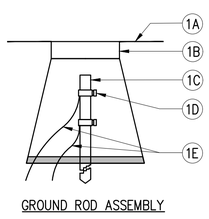
DOUBLE CHECK VALVE ASSEMBLY
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IRRIGATION CONTROLLER FOOTING SECTION
NTS



GROUND ROD LAYOUT

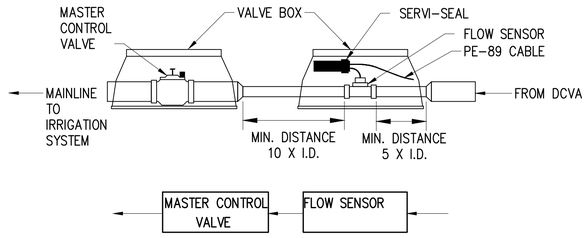


GROUND ROD ASSEMBLY

1. GROUND ROD ASSEMBLY (3 TOTAL)
   - 1A FINAL GRADE
   - 1B 6" VALVE BOX
   - 1C 8' COPPER CLAD GROUND ROD
   - 1D GROUND ROD CLAMPS
   - 1E MIN 10-1 BARE COPPER
2. PROTECTED DEVICE
3. BARE COPPER GROUND WIRE

NOTES:
1. MINIMUM 8' SPACING BETWEEN RODS
2. USE 10g (MINIMUM) BARE COPPER WIRE.
3. WIRE FROM EQUIPMENT TO FIRST ROD SHOULD BE AS SHORT AND STRAIGHT AS POSSIBLE.
4. USE SEPARATE CLAMP FOR EACH WIRE.

GROUNDING GRID DETAIL
NTS



FLOW SENSOR METER RUN
NTS

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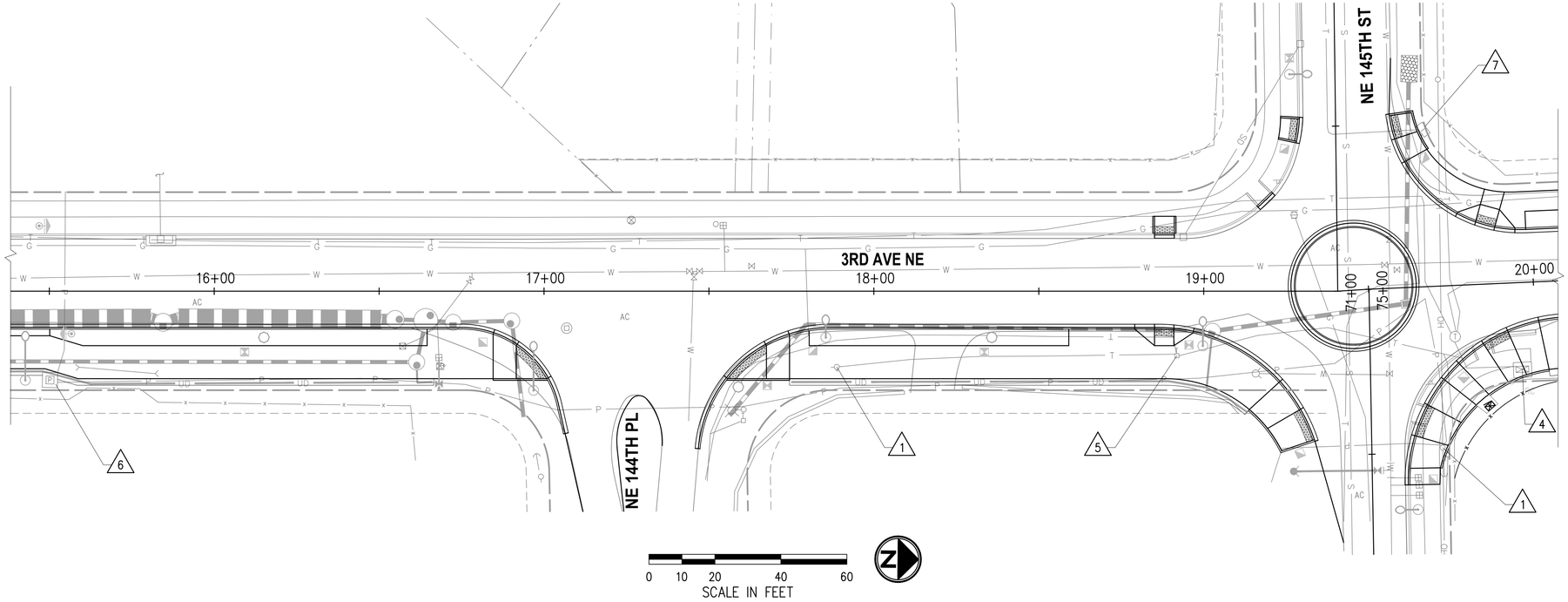
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

IRRIGATION DETAILS

KPG PROJECT No. 21078

SHT 113 OF 129

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GENERAL NOTES

JOINT UTILITY TRENCH DESIGN WILL BE DEVELOPED FURTHER IN NEXT SUBMITTAL AS COORDINATION WITH FRANCHISE UTILITIES ADVANCES

CONSTRUCTION NOTES

1. RELOCATE UTILITY POLE BY OTHERS.
4. EXISTING POWER PEDESTAL TO BE RELOCATED BY OTHERS.
5. RELOCATE TELEPHONE RISER BY OTHERS.
6. ADJUST EXISTING POWER VAULT TO GRADE BY OTHERS.
7. EXISTING TELEPHONE RISER TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

LEGEND

- EXISTING ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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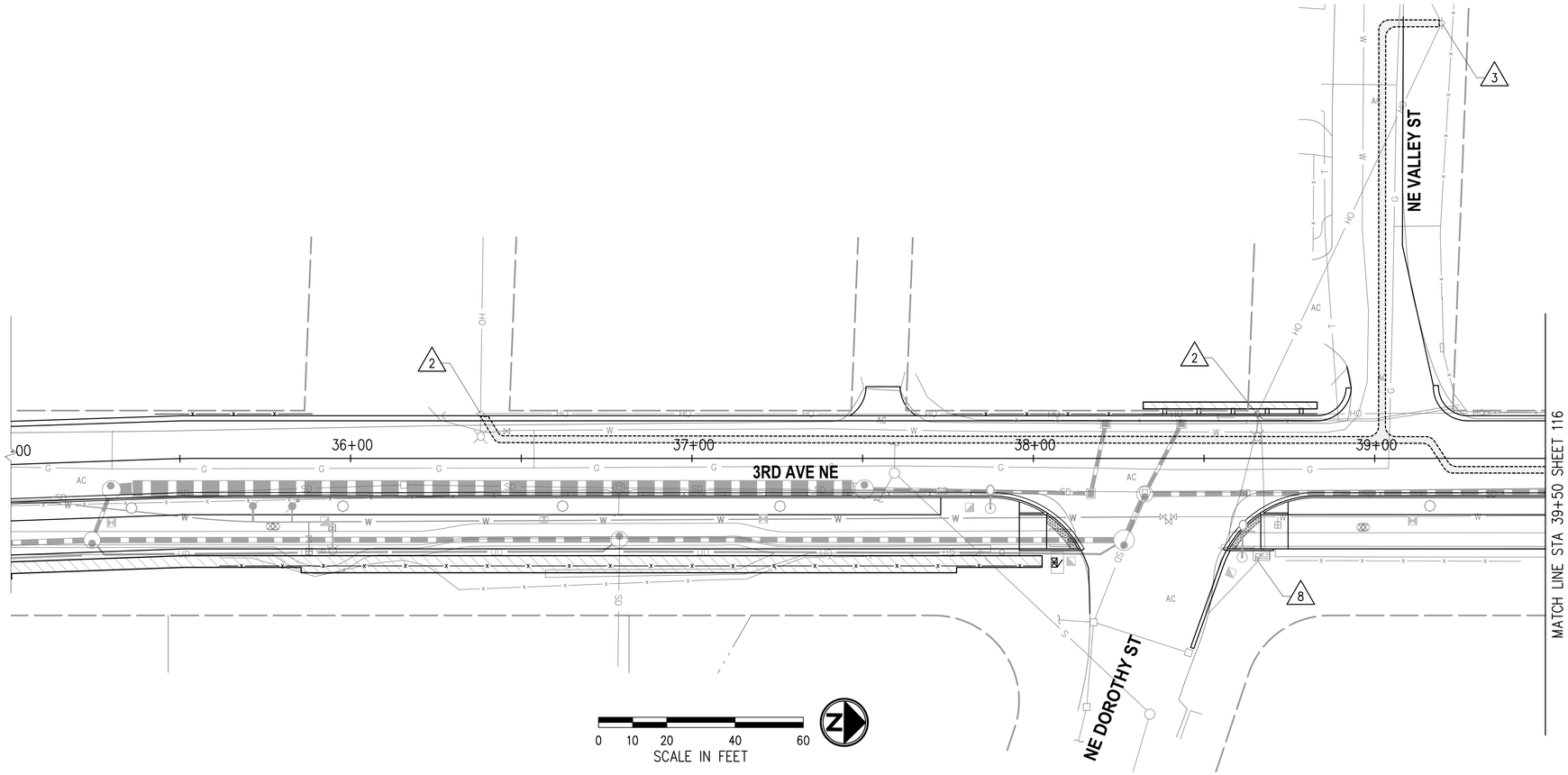
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 15+30 TO STA 19+80

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GENERAL NOTES

JOINT UTILITY TRENCH DESIGN WILL BE DEVELOPED FURTHER IN NEXT SUBMITTAL AS COORDINATION WITH FRANCHISE UTILITIES ADVANCES

CONSTRUCTION NOTES

2. REMOVE UTILITY POLE BY OTHERS.
3. EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.
8. EXISTING ELECTRICAL METER AND EQUIPMENT TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

LEGEND

- EXISTING ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT MANAGER DATE

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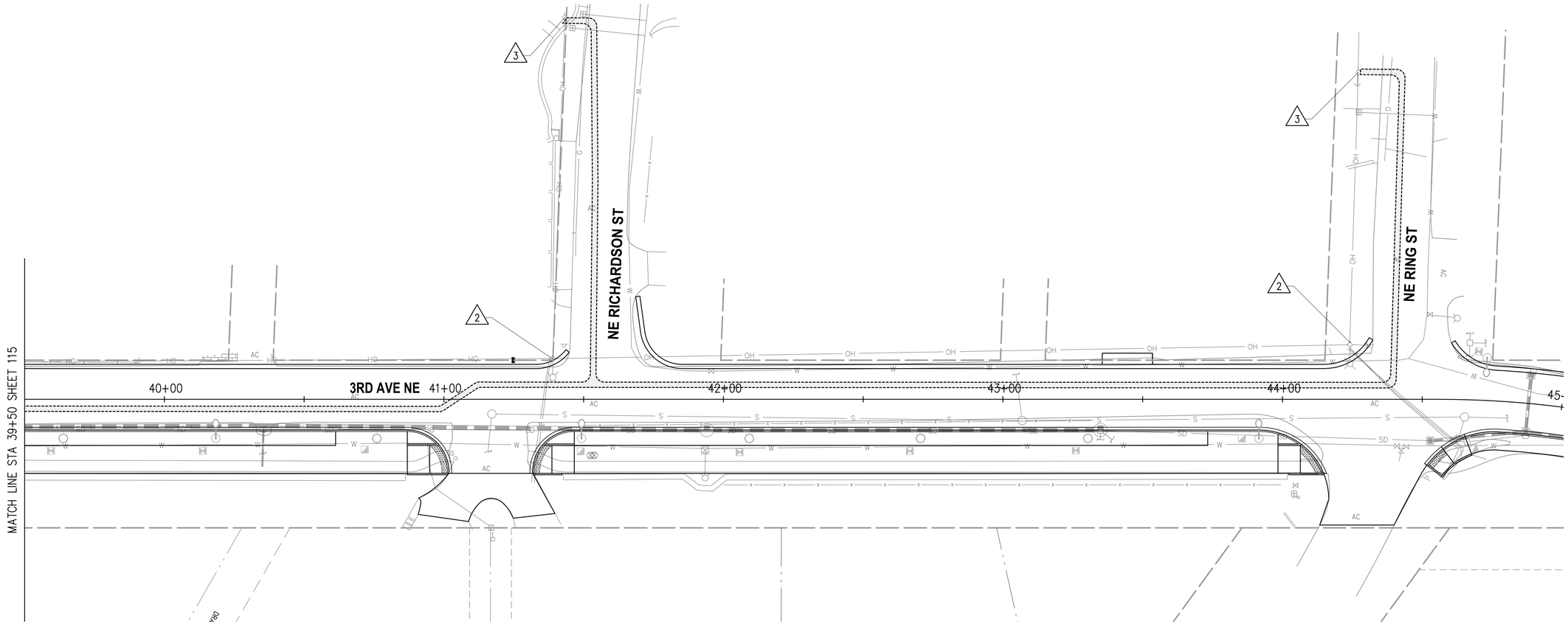
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 35+00 TO STA 39+50

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SHT 115 OF 129

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GENERAL NOTES

JOINT UTILITY TRENCH DESIGN WILL BE DEVELOPED FURTHER IN NEXT SUBMITTAL AS COORDINATION WITH FRANCHISE UTILITIES ADVANCES

CONSTRUCTION NOTES

2. REMOVE UTILITY POLE BY OTHERS.
3. EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.

LEGEND

- EXISTING ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH

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CITY OF DUVALL
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JOINT UTILITY TRENCH PLAN
STA 39+50 TO STA 45+00

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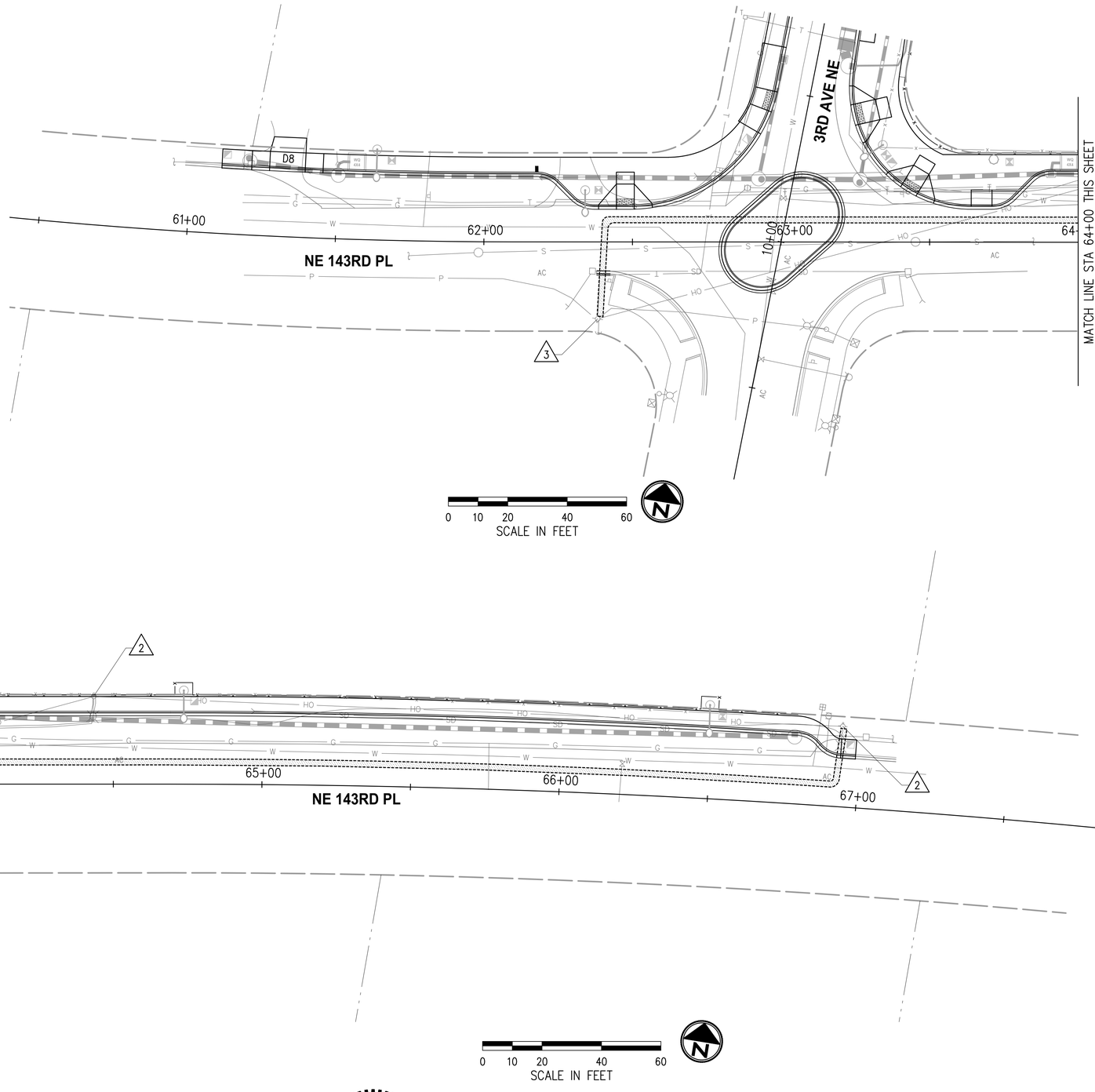
GENERAL NOTES

JOINT UTILITY TRENCH DESIGN WILL BE DEVELOPED FURTHER IN NEXT SUBMITTAL AS COORDINATION WITH FRANCHISE UTILITIES ADVANCES

CONSTRUCTION NOTES

2 REMOVE UTILITY POLE BY OTHERS.

3 EXISTING UTILITY POLE TO REMAIN. PRESERVE AND PROTECT DURING CONSTRUCTION.



LEGEND

- EXISTING ROW
- PROPERTY LINE
- JOINT UTILITY TRENCH

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3RD AVENUE NE RECONSTRUCTION

JOINT UTILITY TRENCH PLAN
STA 60+50 - STA 64+00

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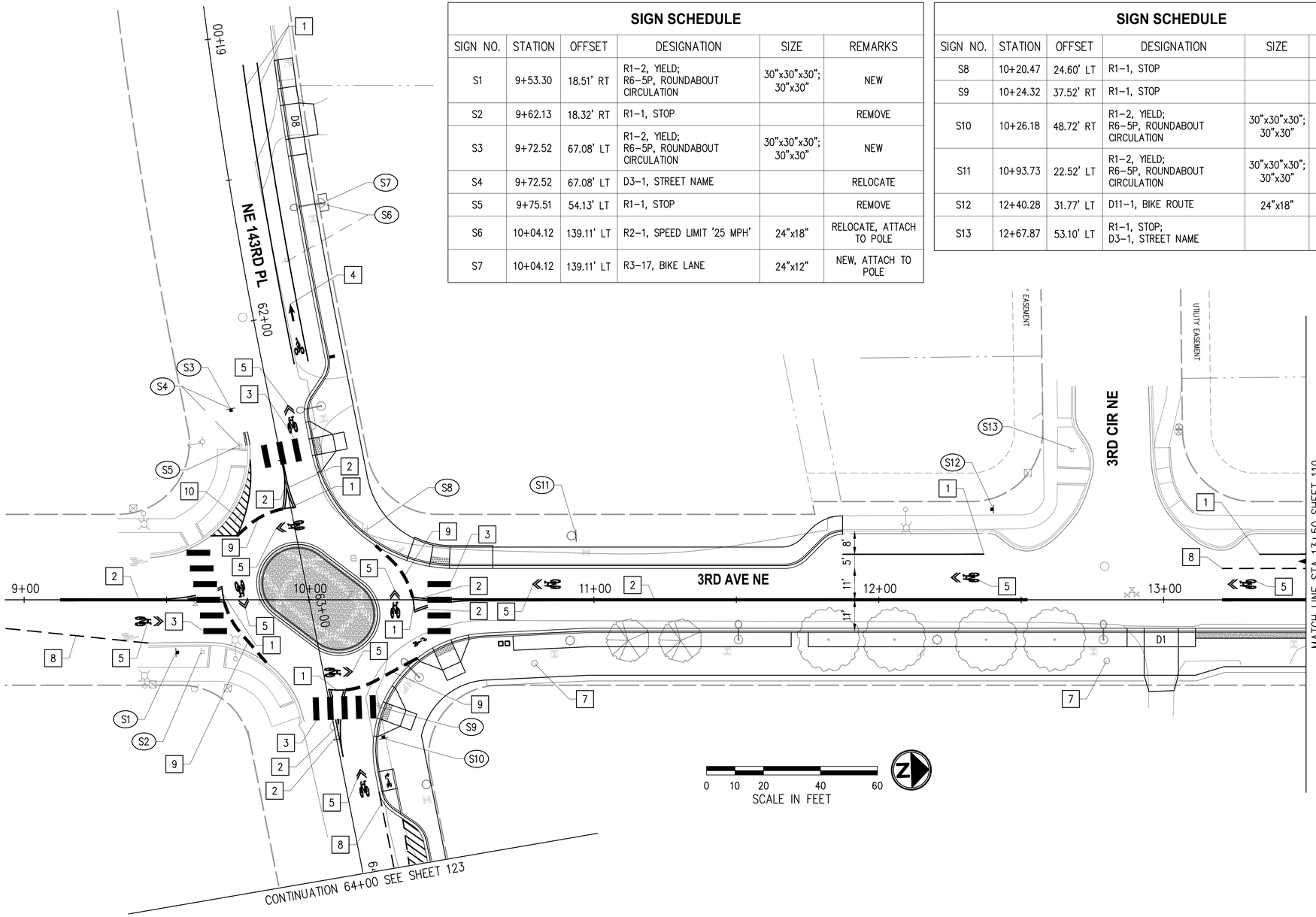
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SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S1	9+53.30	18.51' RT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW
S2	9+62.13	18.32' RT	R1-1, STOP		REMOVE
S3	9+72.52	67.08' LT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW
S4	9+72.52	67.08' LT	D3-1, STREET NAME		RELOCATE
S5	9+75.51	54.13' LT	R1-1, STOP		REMOVE
S6	10+04.12	139.11' LT	R2-1, SPEED LIMIT '25 MPH'	24"x18"	RELOCATE, ATTACH TO POLE
S7	10+04.12	139.11' LT	R3-17, BIKE LANE	24"x12"	NEW, ATTACH TO POLE

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S8	10+20.47	24.60' LT	R1-1, STOP		REMOVE
S9	10+24.32	37.52' RT	R1-1, STOP		REMOVE
S10	10+26.18	48.72' RT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW
S11	10+93.73	22.52' LT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW, ATTACH TO POLE
S12	12+40.28	31.77' LT	D11-1, BIKE ROUTE	24"x18"	NEW
S13	12+67.87	53.10' LT	R1-1, STOP; D3-1, STREET NAME		TO REMAIN



CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
2. ALL PAVEMENT MARKING MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON ROAD STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE MODIFIED IN THE SPECIAL PROVISIONS.
3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
4. STREET SIGNS SHALL BE INSTALLED PER COD STANDARD DRAWING NUMBER 3-050-016 AND 3-050-017.

CHANNELIZATION NOTES

1. PLASTIC LINE, 4" WHITE EDGE LINE.
2. PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.
3. PLASTIC CROSSWALK LINE, 24" WHITE.
4. PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.
5. PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.
7. SHARED USE PATH MARKING, SEE URBAN DESIGN SHEETS 94-X.
8. PLASTIC 4" WHITE DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10-04.
9. PLASTIC 12" WHITE WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-04.
10. PLASTIC 4" YELLOW CROSSHATCH. 3" SPACING O.C.

LEGEND

- EXISTING SIGN
- PROPOSED SIGN

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PROJECT ENGINEER	DATE

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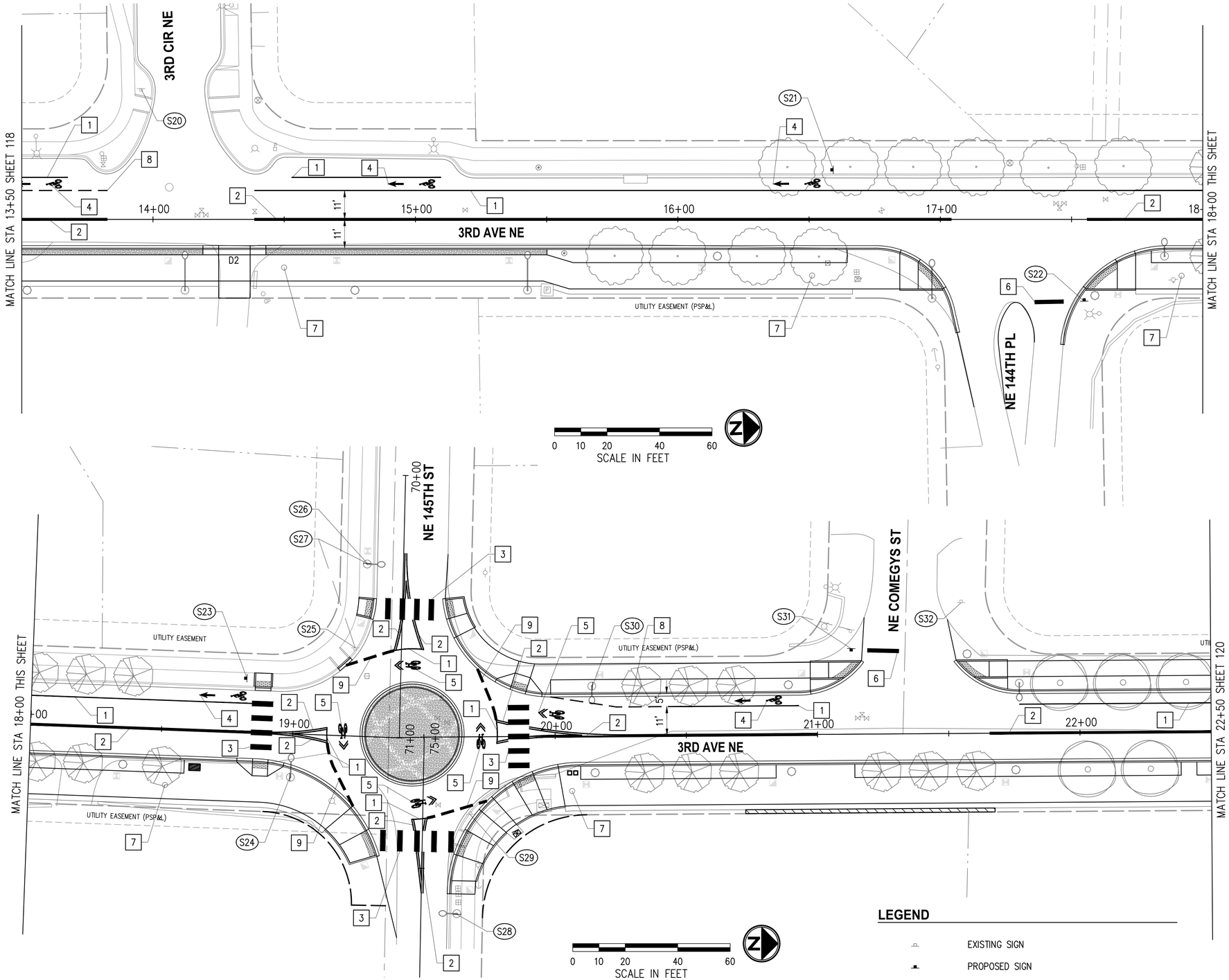
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

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CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
2. ALL PAVEMENT MARKING MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON ROAD STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE MODIFIED IN THE SPECIAL PROVISIONS.
3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
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CHANNELIZATION NOTES

1. PLASTIC LINE, 4" WHITE EDGE LINE.
2. PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.
3. PLASTIC CROSSWALK LINE, 24" WHITE.
4. PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.
5. PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.
6. PLASTIC STOP LINE, 24" WHITE.
7. SHARED USE PATH MARKING, SEE URBAN DESIGN SHEETS 94-X.
8. PLASTIC 4" WHITE DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10-04.
9. PLASTIC 12" WHITE WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-04.

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S20	13+95.42	49.86' LT	R1-1, STOP; D3-1, STREET NAME		TO REMAIN
S21	16+59.21	18.88' LT	R3-17, BIKE LANE	24"X18"	NEW
S22	17+54.82	31.20' RT	R1-1, STOP		TO REMAIN
S23	18+81.81	20.53' LT	R3-17, BIKE LANE	24"x18"	NEW
S24	18+99.48	16.55' RT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW, ATTACH TO POLE
S25	19+22.57	33.66' LT	R1-1, STOP; W4-4P, "CROSS TRAFFIC DOES NOT STOP"		REMOVE
S26	19+25.98	65.95' LT	R1-2, YIELD; R6-5P, ROUDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW
S27	19+25.98	65.95' LT	D3-1, STREET NAME		RELOCATE, ATTACH TO POLE
S28	19+62.06	67.60' RT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW, ATTACH TO POLE
S29	19+67.38	29.59' RT	R1-1, STOP; W4-4P, "CROSS TRAFFIC DOES NOT STOP"		REMOVE
S30	20+14.36	19.00' LT	R1-2, YIELD; R6-5P, ROUNDABOUT CIRCULATION	30"x30"x30"; 30"x30"	NEW
S31	21+13.06	32.63' LT	R1-1, STOP; D3-1, STREET NAME		RELOCATE
S32	21+55.06	49.82' LT	W14-2, "NOT A THROUGH STREET"; "NEIGHBORHOOD WATCH"		TO REMAIN

LEGEND

- EXISTING SIGN
- PROPOSED SIGN

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PROJECT ENGINEER	DATE

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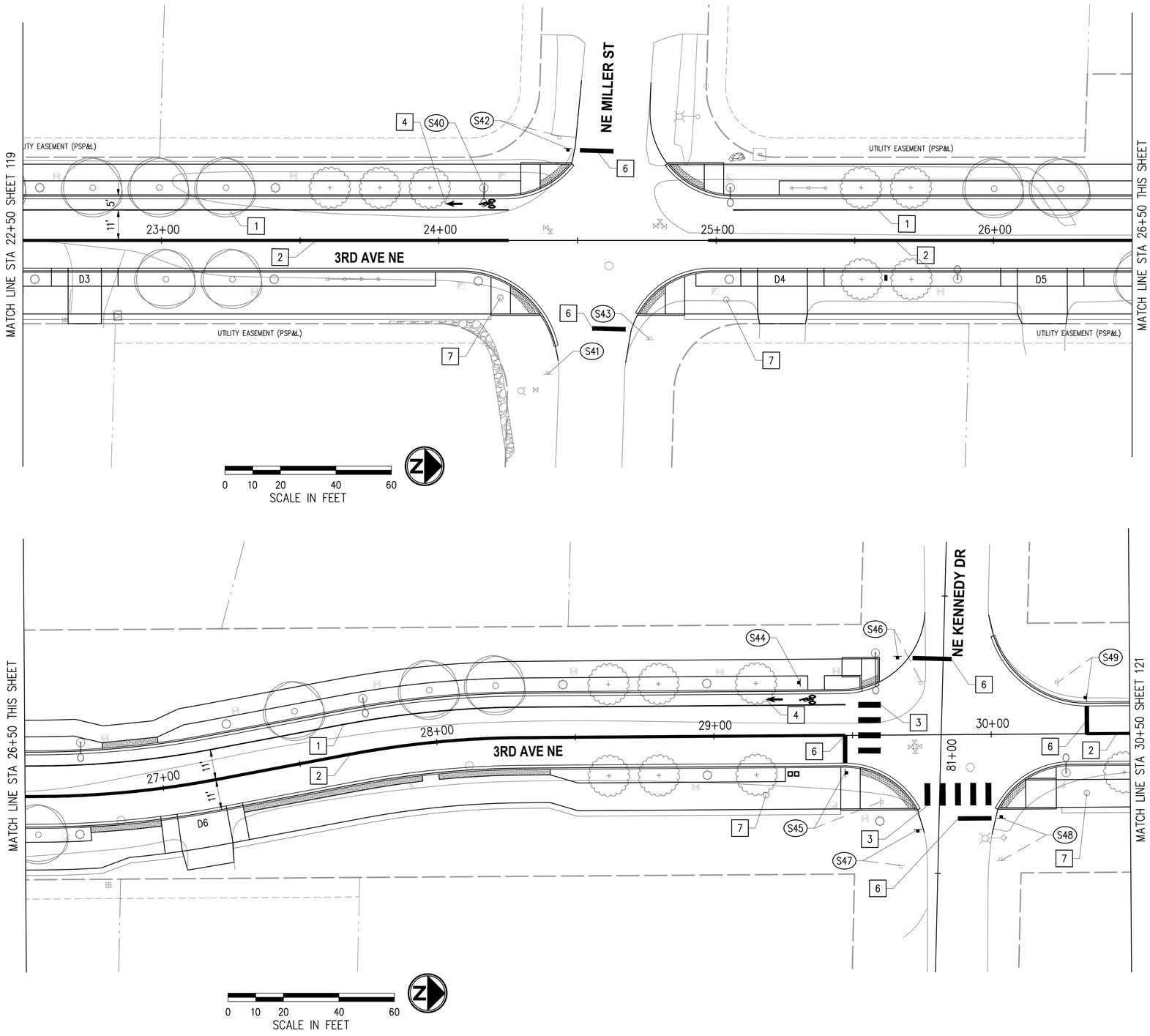
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 13+50 TO STA 22+50

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CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
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3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
4. STREET SIGNS SHALL BE INSTALLED PER COD STANDARD DRAWING NUMBER 3-050-016 AND 3-050-017.
5. NOTE 5

CHANNELIZATION NOTES

1 PLASTIC LINE, 4" WHITE EDGE LINE.

2 PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.

3 PLASTIC CROSSWALK LINE, 24" WHITE.

4 PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.

6 PLASTIC STOP LINE, 24" WHITE.

7 SHARED USE PATH MARKING, SEE URBAN DESIGN SHEETS 94-X.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S40	24+16.50	18.93' LT	R3-17, BIKE LANE	24"x18"	NEW, ATTACH TO POLE
S41	24+39.14	48.30' RT	W14-2, NO OUTLET		TO REMAIN
S42	24+46.58	33.14' LT	R1-1, STOP		RELOCATE
S43	24+76.06	35.77' RT	R1-1, STOP		TO REMAIN
S44	29+31.29	19.16' LT	R3-17, BIKE LANE	24"x18"	NEW
S45	29+47.20	13.50' RT	R1-1, STOP		RELOCATE
S46	29+66.44	28.39' LT	R1-1, STOP; D3-1, STREET NAME		RELOCATE
S47	29+73.31	34.11' RT	W14-2, "NOT A THROUGH STREET"		RELOCATE
S48	30+03.43	30.25' RT	R1-1, STOP		RELOCATE
S49	30+34.55	13.00' LT	R1-1, STOP		RELOCATE

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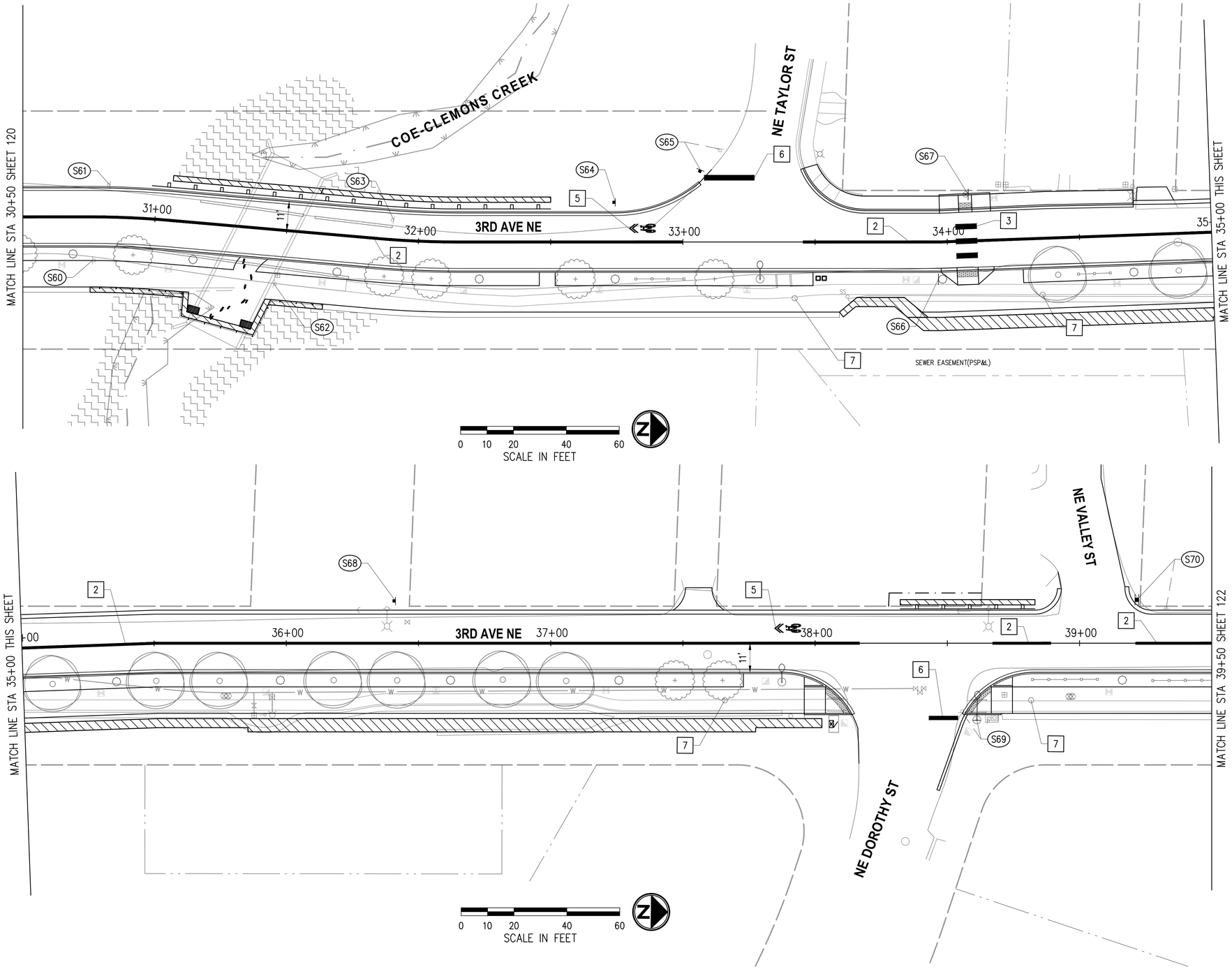
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 22+50 TO STA 30+50

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CHANNELIZATION & SIGNING NOTES

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5. NOTE 5

CHANNELIZATION NOTES

- [2] PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.
- [3] PLASTIC CROSSWALK LINE, 24" WHITE.
- [5] PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.
- [6] PLASTIC STOP LINE, 24" WHITE.
- [7] SHARED USE PATH MARKING, SEE URBAN DESIGN SHEETS 94-X.

LEGEND

- EXISTING SIGN
- PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S60	30+76.42	16.44' RT	R8-31, FIRE LANE		REMOVE
S61	30+82.75	12.06' LT	R8-31, FIRE LANE		REMOVE
S62	31+46.86	20.37' RT	R8-31, FIRE LANE		REMOVE
S63	31+90.13	7.41' LT	R8-31, FIRE LANE		REMOVE
S64	32+74.46	14.99' LT	R11-1, BIKE ROUTE	24"x18"	NEW
S65	33+06.63	27.25' LT	R1-1, STOP; D3-1, STREET NAME		RELOCATE
S66	33+96.41	14.09' RT	W11-2, PEDESTRIAN; W16-7P(L), ARROW PLAQUE	30"x30"; 24"x12"	NEW, ATTACH TO POLE
S67	34+08.53	17.57' LT	W11-2, PEDESTRIAN; W16-7P(L), ARROW PLAQUE	30"x30"; 24"x12"	NEW, ATTACH TO POLE
S68	36+41.31	16.00' LT	R11-1, BIKE ROUTE	24"x18"	NEW
S69	38+61.16	29.18' RT	R1-1, STOP; D3-1, STREET NAME		RELOCATE, ATTACH TO POLE
S70	39+21.66	16.40' LT	(2) R6-1, ONE WAY; D3-1, STREET NAME		RELOCATE, R6-1 POINTING WEST

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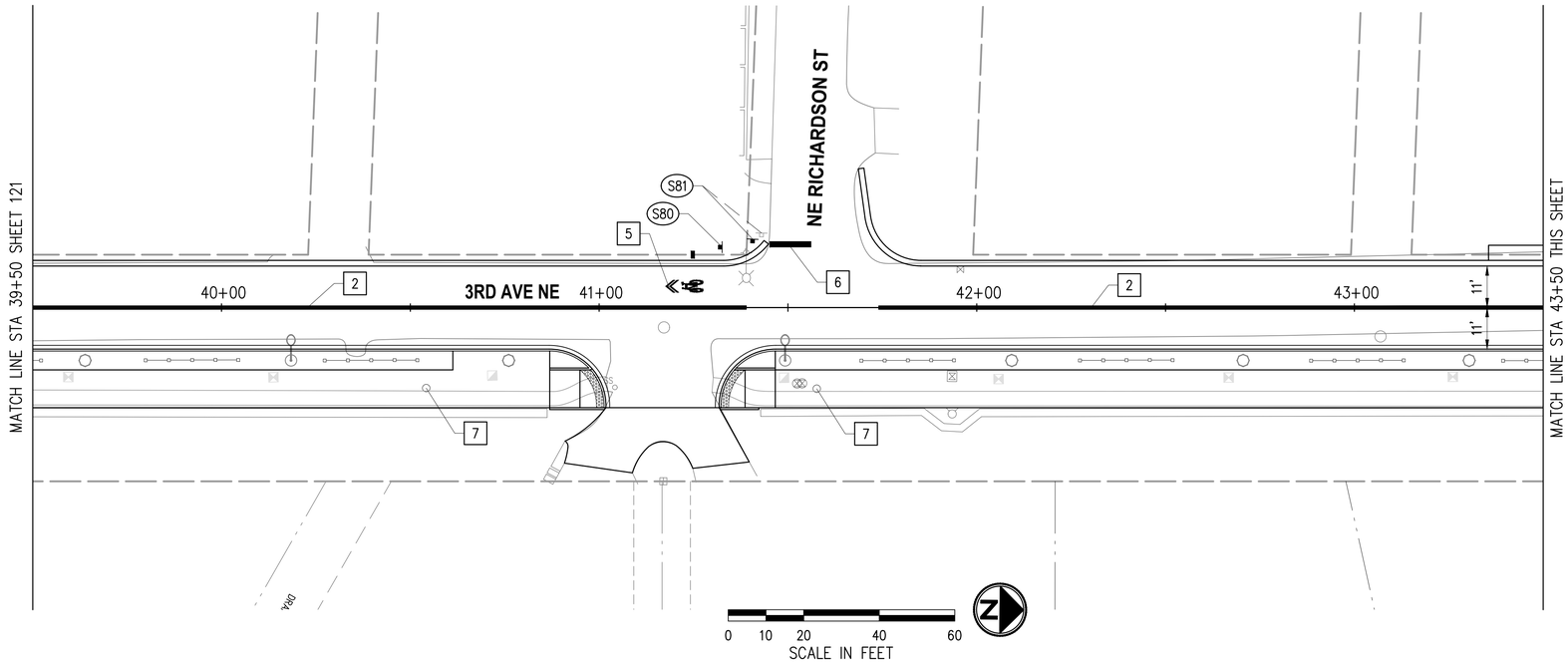
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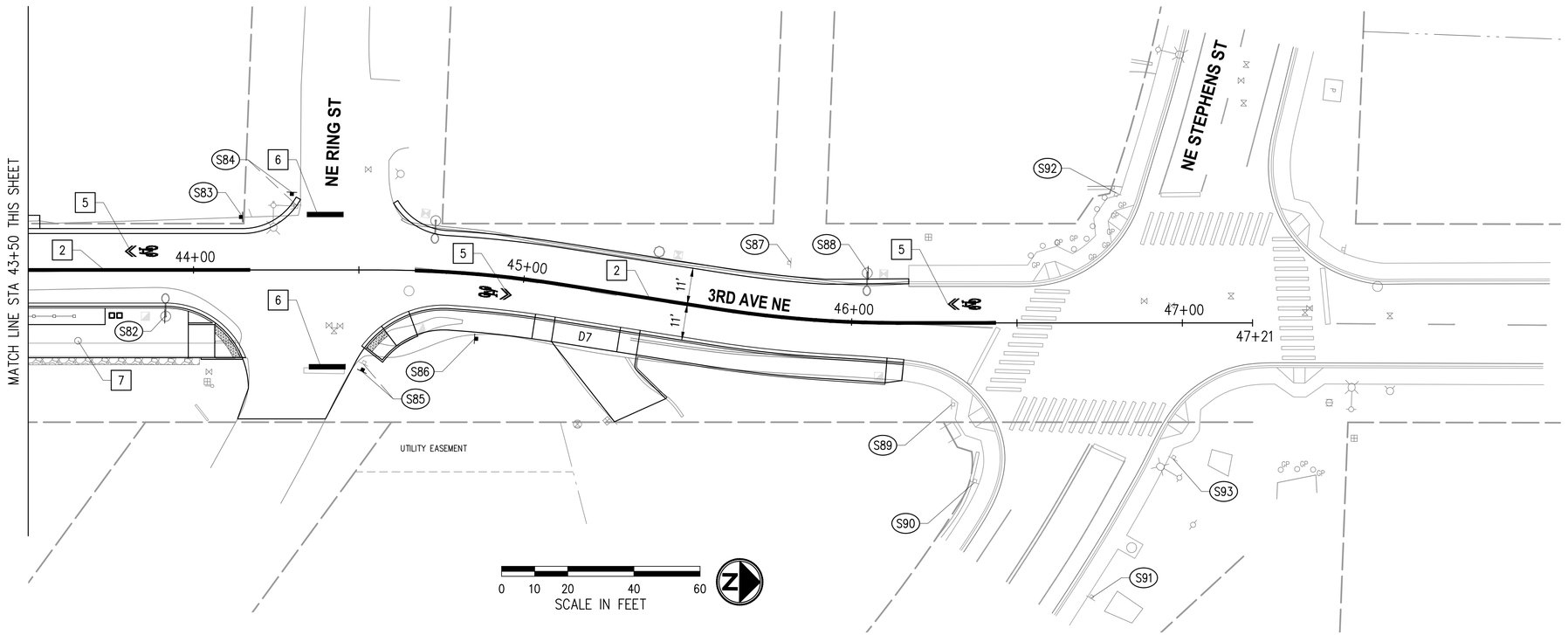
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 30+50+00 TO STA 39+50

KPG PROJECT No. 21078 | SHT 121 OF 129

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CHANNELIZATION & SIGNING NOTES

1. REMOVE ALL EXISTING CONFLICTING CHANNELIZATION.
2. ALL PAVEMENT MARKING MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON ROAD STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", LATEST EDITION, UNLESS OTHERWISE MODIFIED IN THE SPECIAL PROVISIONS.
3. ALL STREET SIGNS NOTED FOR RELOCATION SHALL BE INSTALLED WITH NEW POSTS AND POST BASE.
4. STREET SIGNS SHALL BE INSTALLED PER COD STANDARD DRAWING NUMBER 3-050-016 AND 3-050-017.
5. NOTE 5

CHANNELIZATION NOTES

[2] PLASTIC LINE, 4" YELLOW DOUBLE CENTERLINE PER WSDOT STANDARD PLAN M-20.10-04.

[5] PLASTIC SHARED LANE SYMBOL PER MUTCD FIGURE 9C-9.

[6] PLASTIC STOP LINE, 24" WHITE.

[7] SHARED USE PATH MARKING, SEE URBAN DESIGN SHEETS 94-X.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S80	41+32.57	16.00' LT	D11-1, BIKE ROUTE	24"x18"	NEW
S81	41+40.64	18.12' LT	R1-1, STOP; D3-1, STREET NAME		RELOCATE
S82	43+91.33	14.02' RT	"END SHARED USE PATH"	24"x18"	NEW, ATTACH TO POLE
S83	44+14.84	16.00' LT	D11-1, BIKE ROUTE	24"x18"	NEW
S84	44+29.75	23.47' LT	R1-1,STOP		RELOCATE
S85	44+50.89	30.64' RT	R1-1, STOP; D3-1, STREET NAME		RELOCATE
S86	44+86.71	19.50' RT	D11-1, BIKE ROUTE	24"x18"	NEW
S87	45+80.01	16.59' LT	R2-1, SPEED LIMIT '25 MPH'; "SNOW ROUTE"		TO REMAIN
S88	46+04.59	14.96' LT	D11-1, BIKE ROUTE	24"x18"	NEW, ATTACH TO POLE
S89	46+30.20	24.64' RT	R1-1, STOP; D3-1, STREET NAME		TO REMAIN
S90	46+37.12	48.25' RT	R3-17, "RIGHT LANE BIKE ONLY"		TO REMAIN
S91	46+72.30	83.22' RT	S1-1, SCHOOL CROSSING		TO REMAIN
S92	46+80.16	39.21' LT	R1-1, STOP		TO REMAIN
S93	46+97.15	41.05' RT	R1-1, STOP; D3-1, STREET NAME		TO REMAIN

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21078CHAN.dwg	FILENAME
JRW	06/2023
DESIGNED BY	DATE
KAB	06/2023
DRAWN BY	DATE
OBP	06/2023
CHECKED BY	DATE

OLIVIA B. PARASCHIV STATE OF WASHINGTON 41380 REGISTERED PROFESSIONAL ENGINEER

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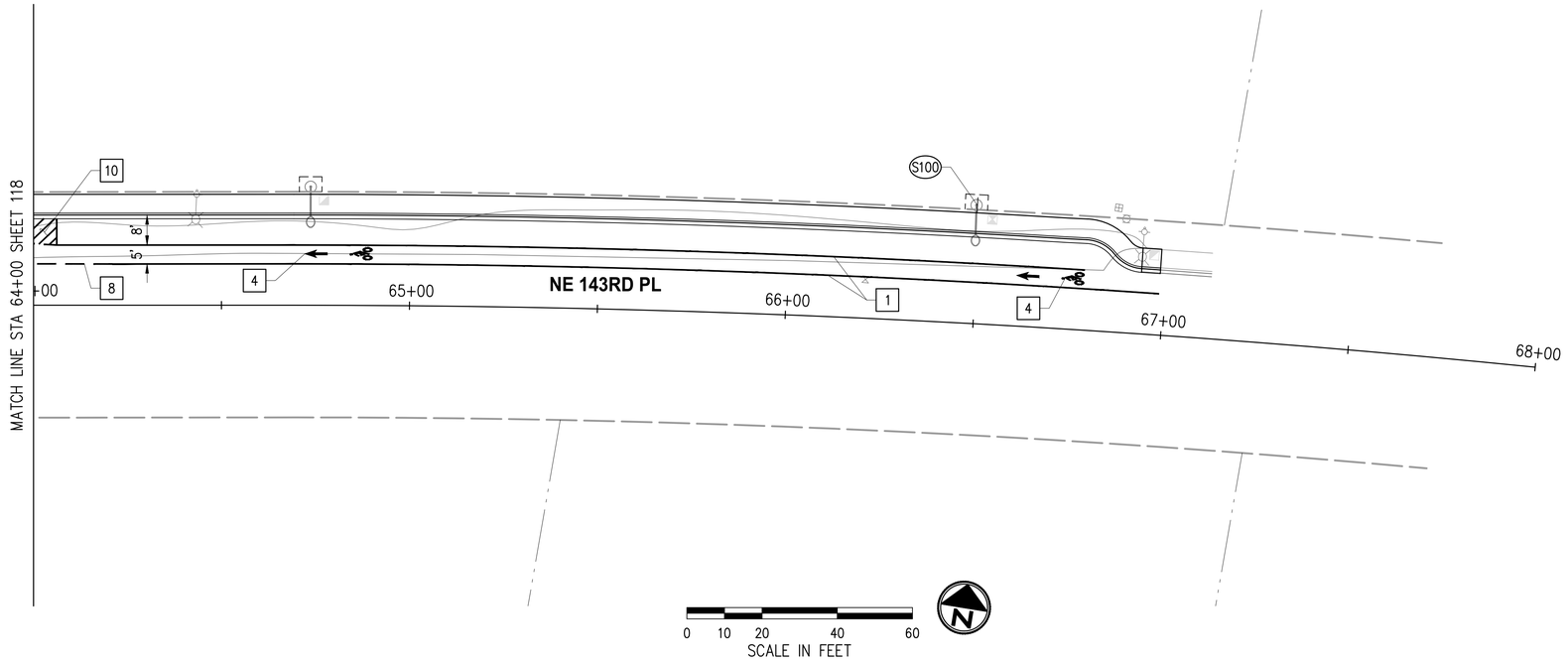
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 39+50 TO STA 47+21

KPG PROJECT No. 21078

SHT 122 OF 129

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CHANNELIZATION & SIGNING NOTES

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5. NOTE 5

CHANNELIZATION NOTES

[1] PLASTIC LINE, 4" WHITE EDGE LINE.

[4] PLASTIC BICYCLE LANE SYMBOL PER WDSOT STANDARD PLAN M-9.50-02.

[8] PLASTIC 4" WHITE DOTTED EXTENSION LINE PER WSDOT STANDARD PLAN M-20.10-04.

[10] PLASTIC 4" YELLOW CROSSHATCH. 3" SPACING O.C.

LEGEND

EXISTING SIGN

PROPOSED SIGN

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S100	66+49.47	31.47' LT	R3-17, BIKE LANE	24"x18"	NEW, ATTACH TO POLE

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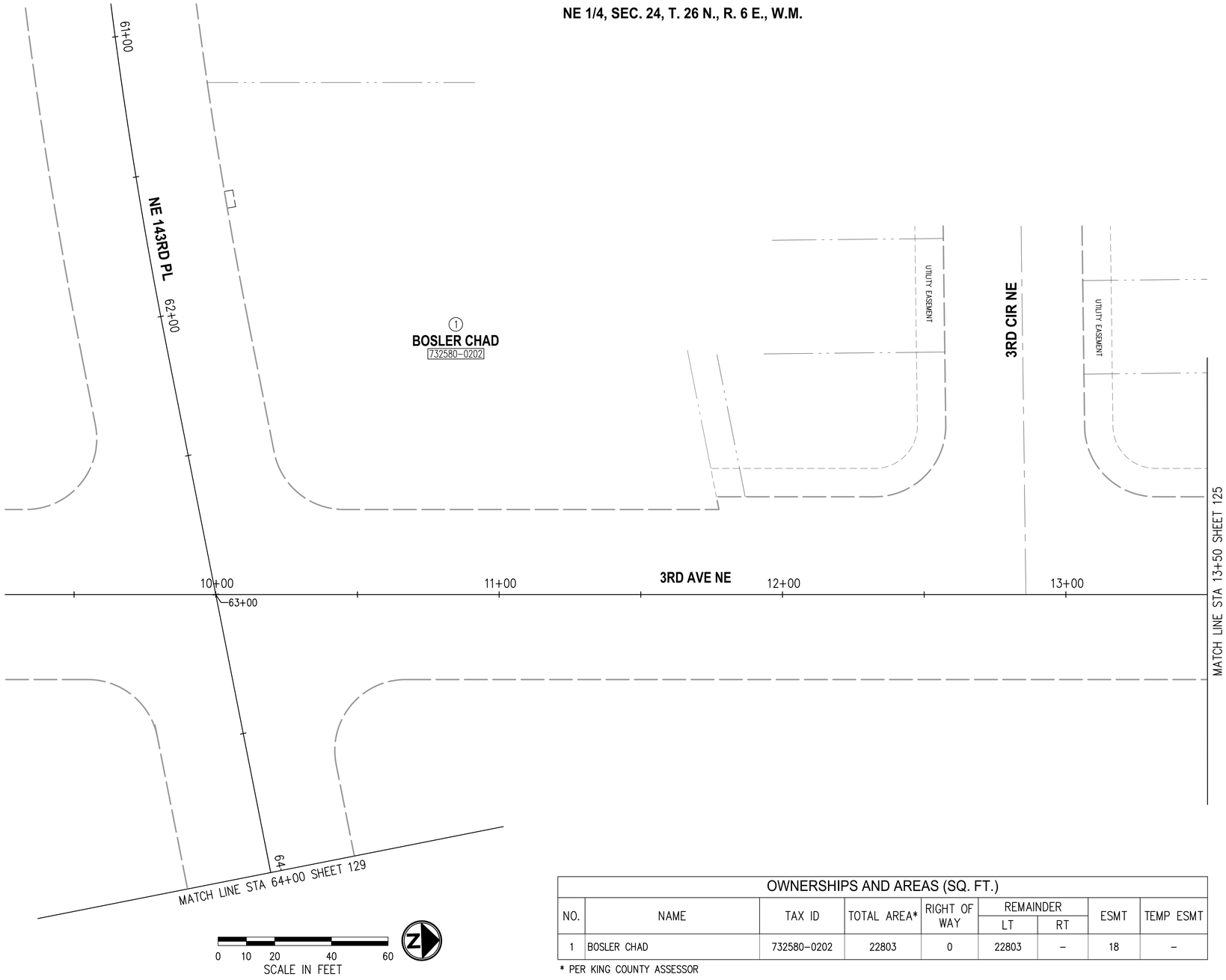
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

CHANNELIZATION & SIGNING PLAN
STA 64+00 TO STA 68+00

KPG PROJECT No. 21078

SHT 123 OF 129

NE 1/4, SEC. 24, T. 26 N., R. 6 E., W.M.



OWNERSHIPS AND AREAS (SQ. FT.)								
NO.	NAME	TAX ID	TOTAL AREA*	RIGHT OF WAY	REMAINDER		ESMT	TEMP ESMT
					LT	RT		
1	BOSLER CHAD	732580-0202	22803	0	22803	–	18	–

* PER KING COUNTY ASSESSOR

LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING RIGHT OF WAY CENTERLINE
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- EXISTING BUILDING
- PROPOSED RIGHT OF WAY
- PROPOSED UTILITY EASEMENT
- PROPOSED WALL EASEMENT
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT (TCE)
- 50' EXISTING RIGHT OF WAY WIDTH
- FOUND SURVEY CONTROL (AS DESCRIBED)
- S.F. SQUARE FEET

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

21078ROW01.dwg	
FILENAME	
RR	06/2023
DESIGNED BY	DATE
KW	06/2023
DRAWN BY	DATE
MB	06/2023
CHECKED BY	DATE

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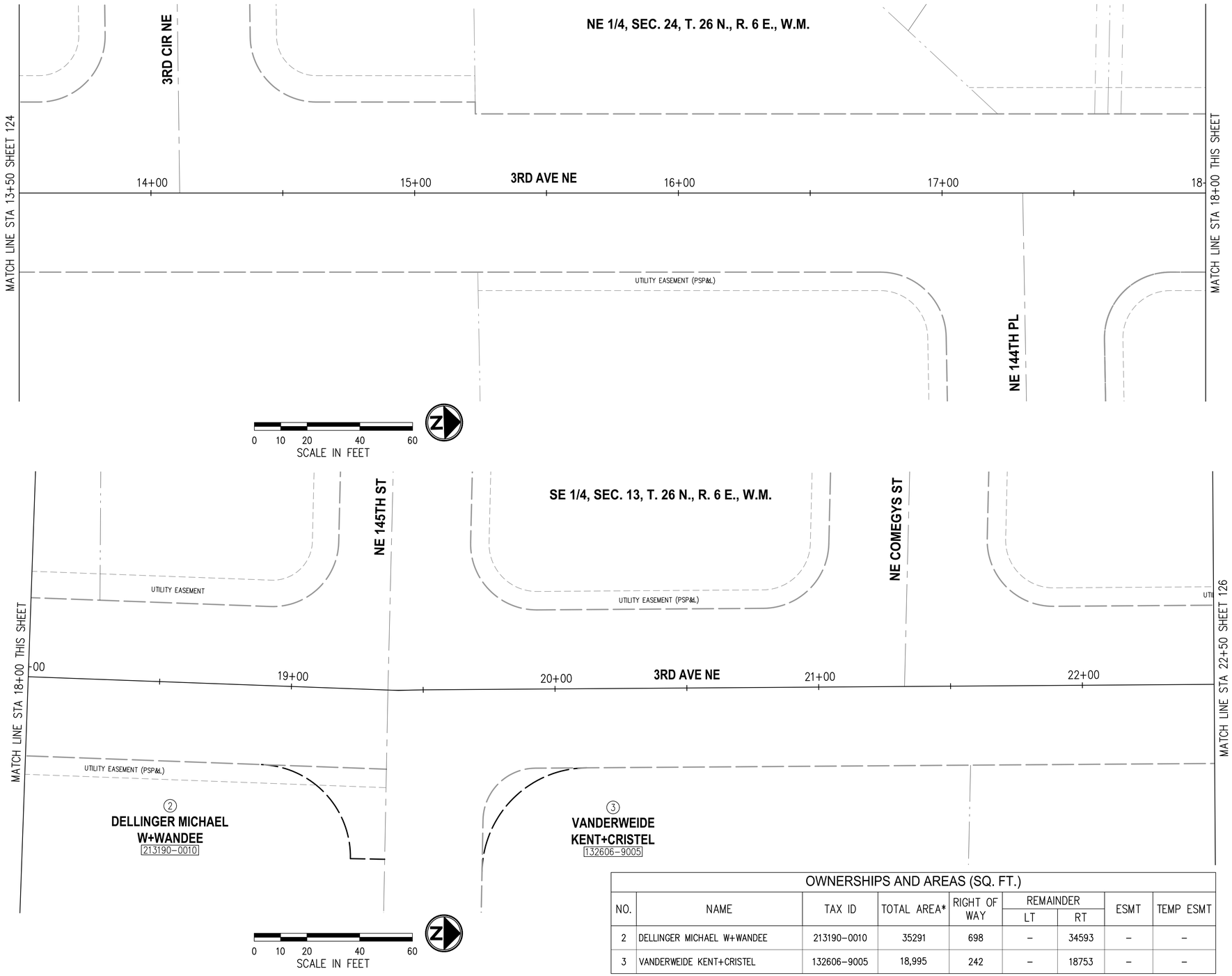
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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RIGHT OF WAY PLAN
STA 9+25 TO STA 13+50 AND
STA 61+00 TO STA 64+00

KPG PROJECT No. 21078 | SHT 124 OF 129

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LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING RIGHT OF WAY CENTERLINE
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- S.F. SQUARE FEET

OWNERSHIPS AND AREAS (SQ. FT.)

NO.	NAME	TAX ID	TOTAL AREA*	RIGHT OF WAY	REMAINDER		ESMT	TEMP ESMT
					LT	RT		
2	DELLINGER MICHAEL W+WANDEE	213190-0010	35291	698	–	34593	–	–
3	VANDERWEIDE KENT+CRISTEL	132606-9005	18,995	242	–	18753	–	–

* PER KING COUNTY ASSESSOR

NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE

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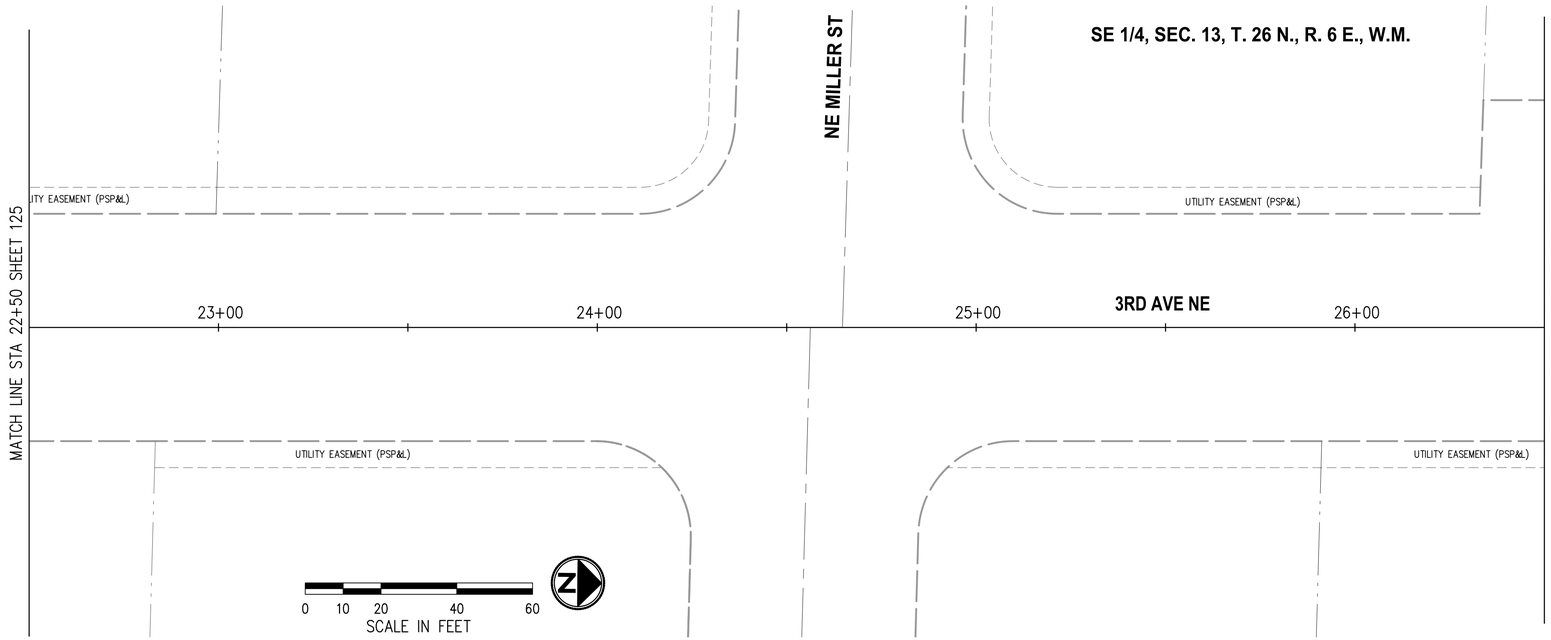
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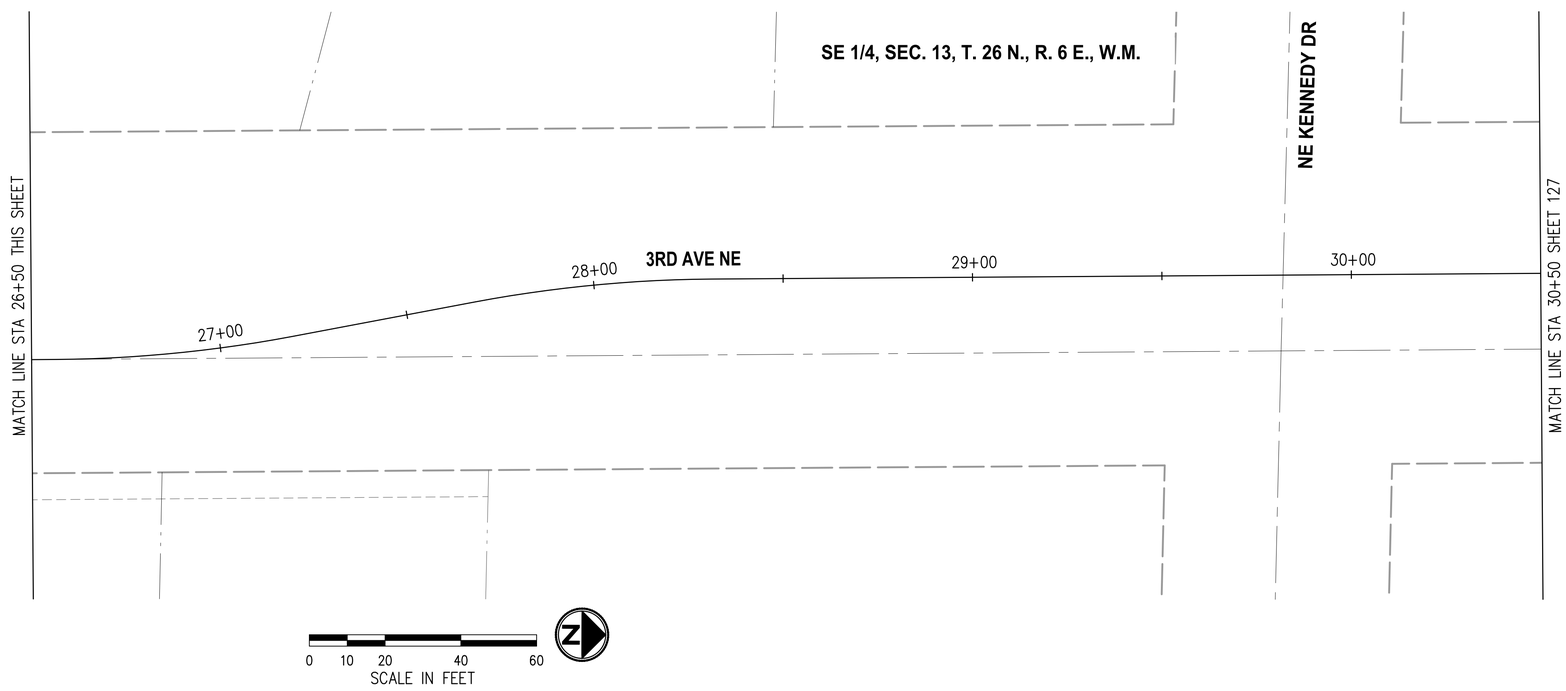
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RIGHT OF WAY PLAN
STA 13+50 TO STA 22+50

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LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING RIGHT OF WAY CENTERLINE
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- EXISTING PROPERTY LINE
- EXISTING BUILDING
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- FOUND SURVEY CONTROL (AS DESCRIBED)
- S.F. SQUARE FEET

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Approved By

ENGINEERING MANAGER DATE

PROJECT MANAGER DATE

PROJECT ENGINEER DATE

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DESIGNED BY	RR 06/2023
DRAWN BY	KW 06/2023
CHECKED BY	MB 06/2023

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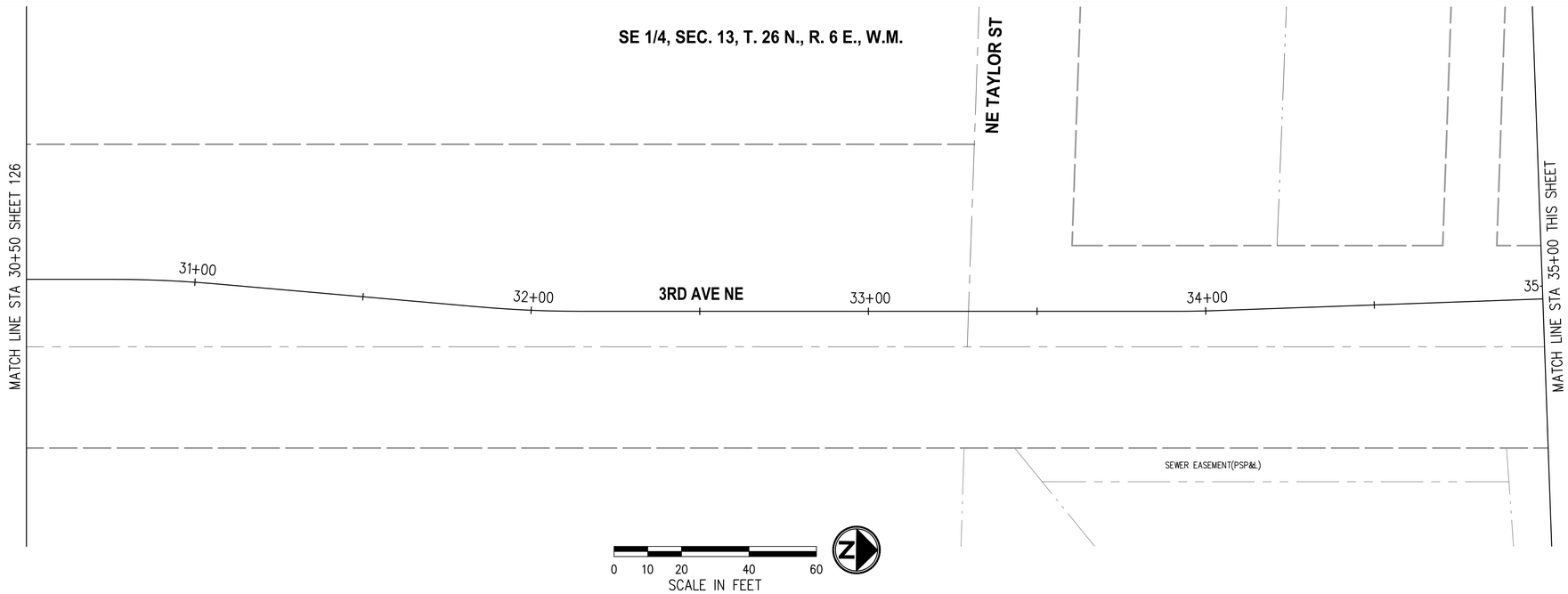
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

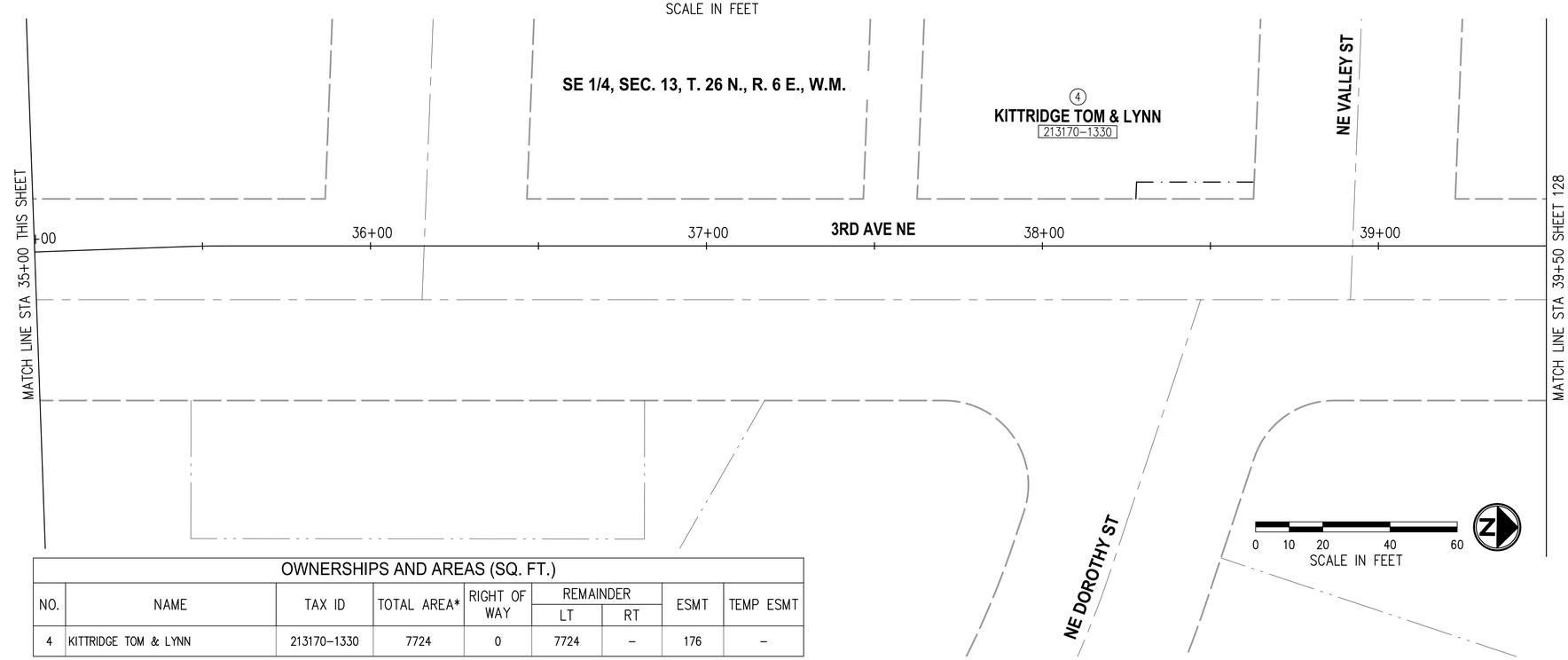
RIGHT OF WAY PLAN
STA 22+50 TO STA 30+50

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SHT 126 OF 129

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OWNERSHIPS AND AREAS (SQ. FT.)								
NO.	NAME	TAX ID	TOTAL AREA*	RIGHT OF WAY	REMAINDER		ESMT	TEMP ESMT
					LT	RT		
4	KITTRIDGE TOM & LYNN	213170-1330	7724	0	7724	–	176	–

* PER KING COUNTY ASSESSOR

LEGEND

- CONSTRUCTION CENTERLINE
- EXISTING RIGHT OF WAY CENTERLINE
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- EXISTING BUILDING
- PROPOSED RIGHT OF WAY
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- PROPOSED TEMPORARY CONSTRUCTION EASEMENT (TCE)
- 50' EXISTING RIGHT OF WAY WIDTH
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- S.F. SQUARE FEET

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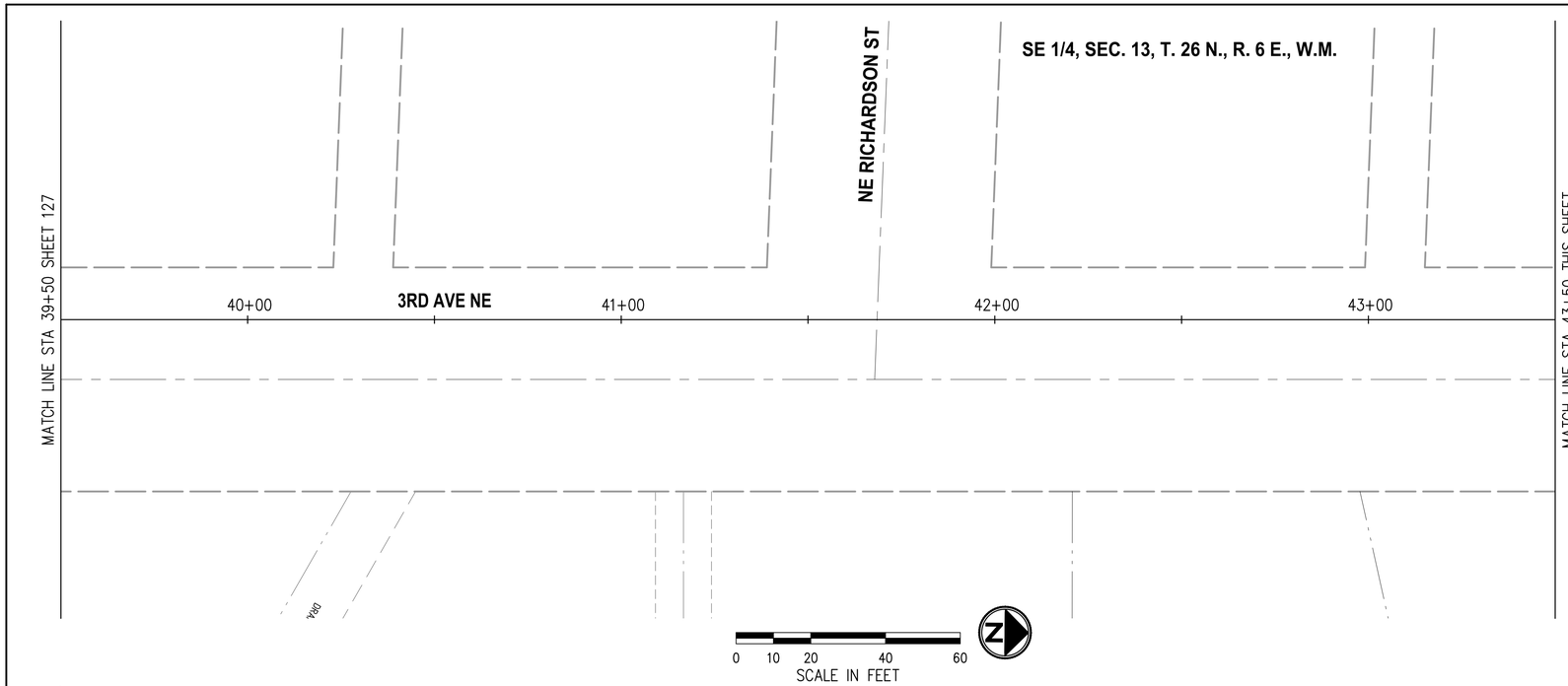
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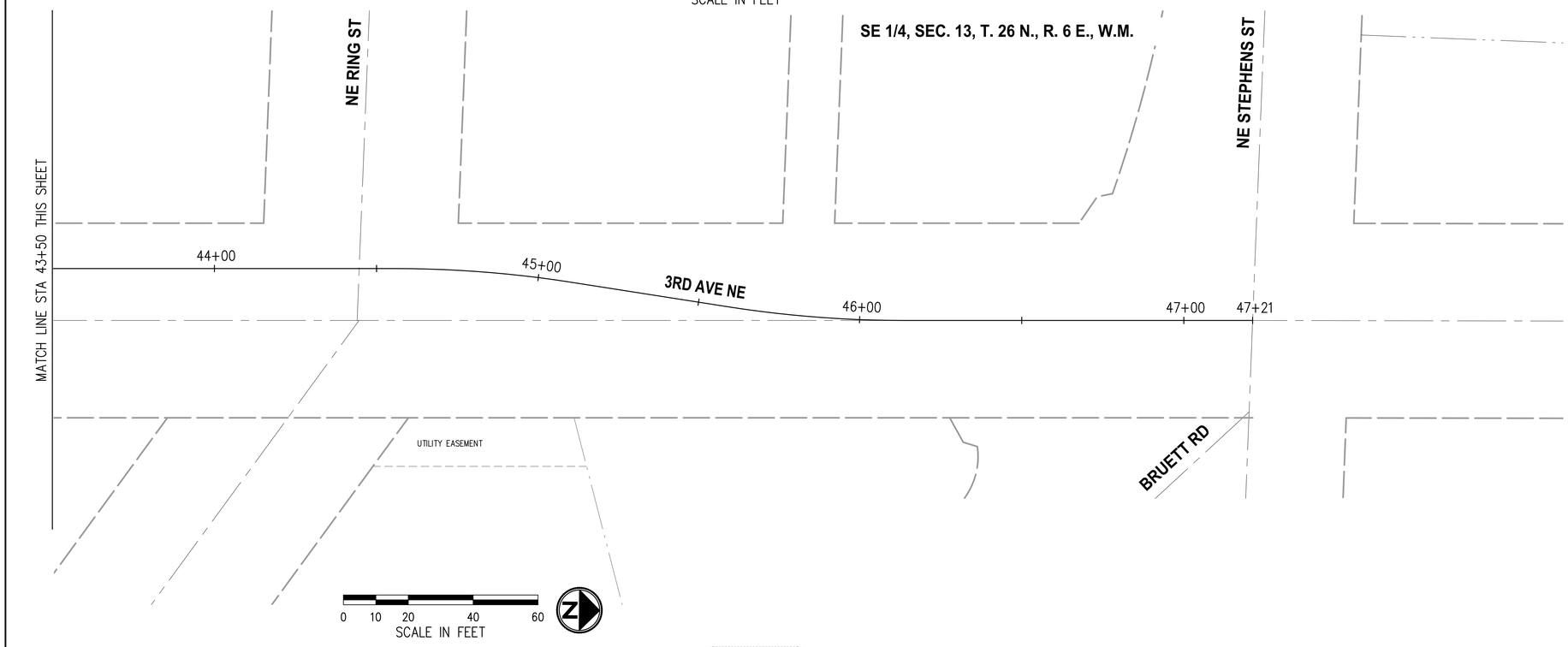
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RIGHT OF WAY PLAN
STA 30+50 TO STA 39+50

KPG PROJECT No. 21078 | SHT 127 OF 129

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LEGEND

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- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
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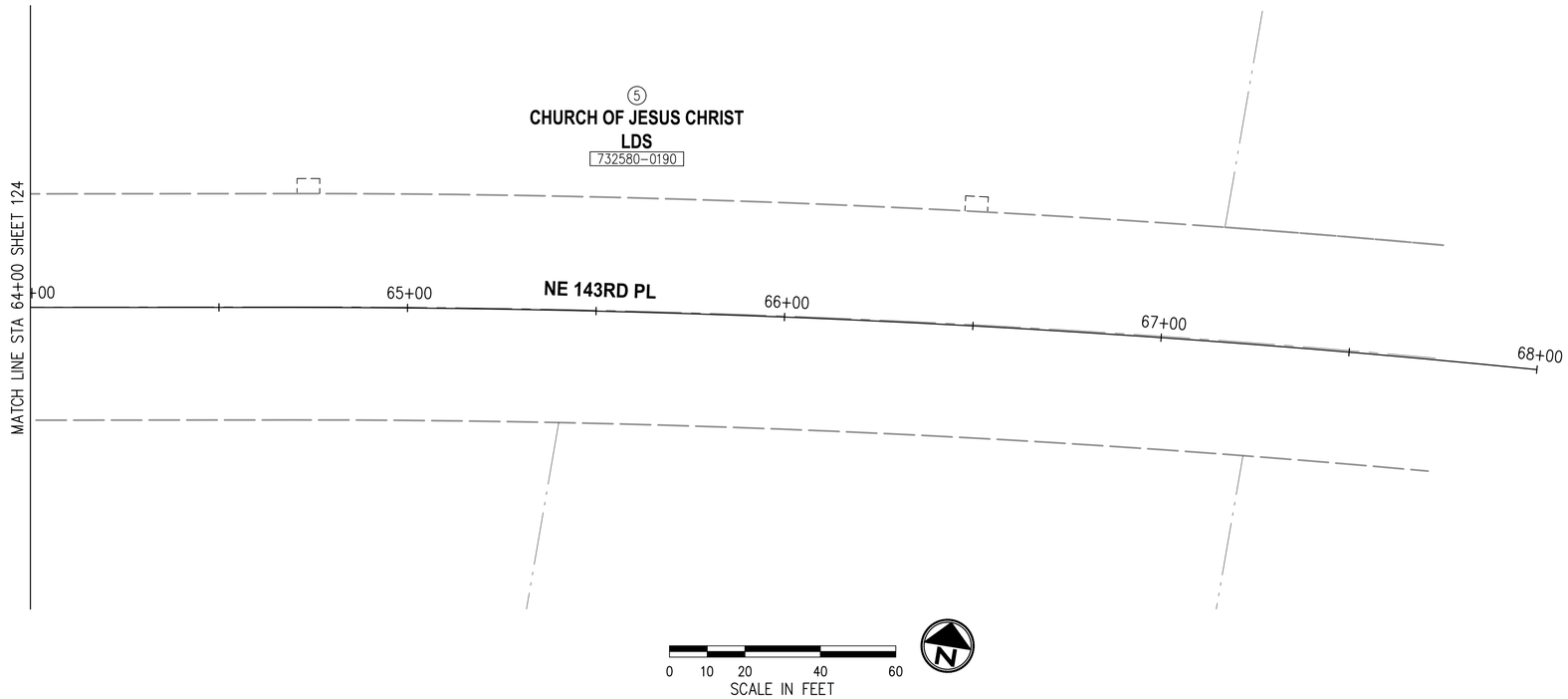
CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RIGHT OF WAY PLAN
STA 39+50 TO STA 47+21

KPG PROJECT No. 21078 | SHT 128 OF 129

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NE 1/4, SEC. 24, T. 26 N., R. 6 E., W.M.



OWNERSHIPS AND AREAS (SQ. FT.)								
NO.	NAME	TAX ID	TOTAL AREA*	RIGHT OF WAY	REMAINDER		ESMT	TEMP ESMT
					LT	RT		
5	CHURCH OF JESUS CHRIST LDS	732580-0190	165528	0	165528	–	48	–

* PER KING COUNTY ASSESSOR

LEGEND

———	CONSTRUCTION CENTERLINE
——— – ———	EXISTING RIGHT OF WAY CENTERLINE
— — — — —	EXISTING RIGHT OF WAY
——— · · ———	EXISTING PROPERTY LINE
———	EXISTING BUILDING
— — — — —	PROPOSED RIGHT OF WAY
- - - - - - - - - - -	PROPOSED UTILITY EASEMENT
— · — · — · —	PROPOSED WALL EASEMENT
— — · — — · —	PROPOSED TEMPORARY CONSTRUCTION EASEMENT (TCE)
50'	EXISTING RIGHT OF WAY WIDTH
⌖	FOUND SURVEY CONTROL (AS DESCRIBED)
S.F.	SQUARE FEET

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CITY OF DUVALL
3RD AVENUE NE RECONSTRUCTION

RIGHT OF WAY PLAN
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SHT 129 OF 129

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