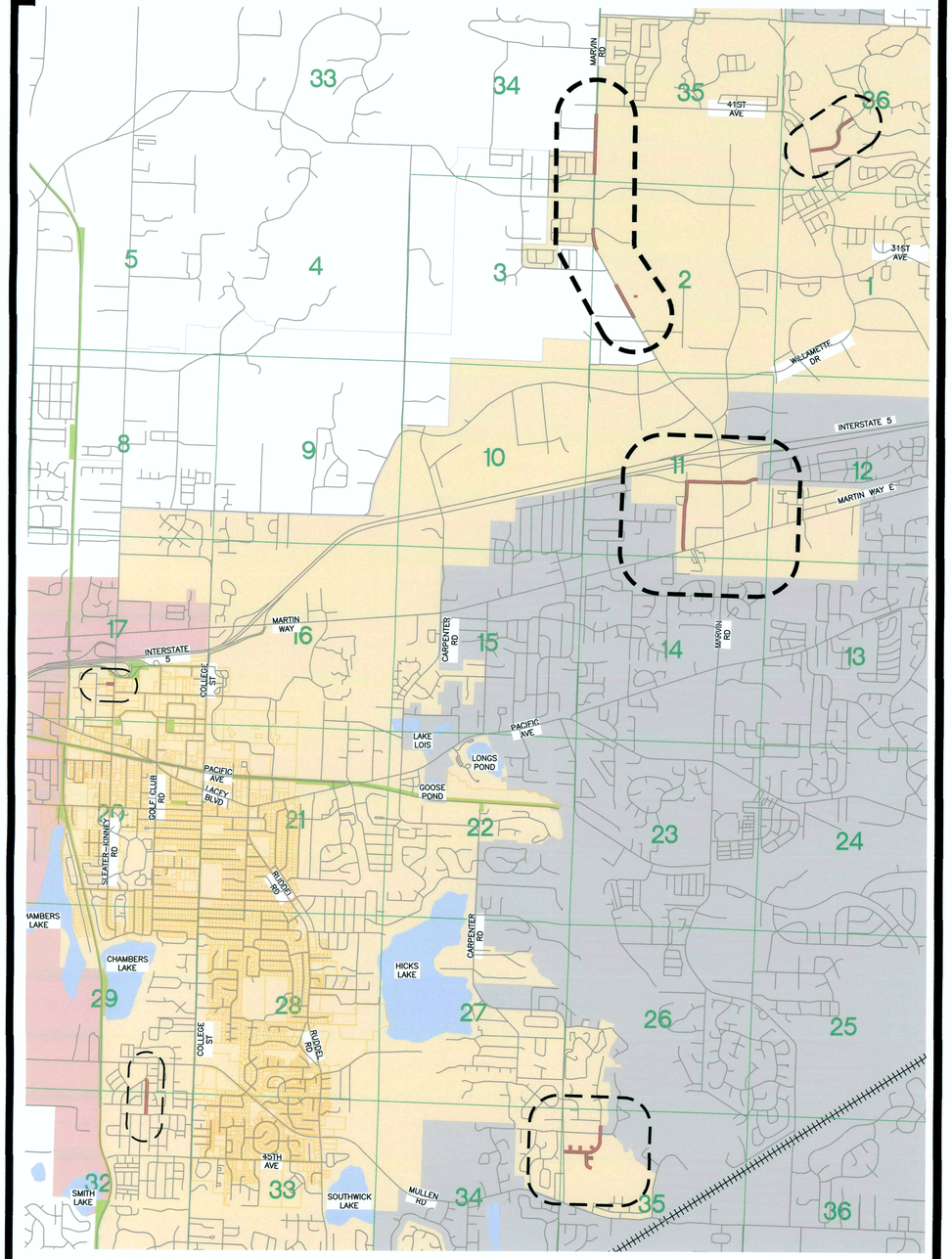


N.

DATUM

LACEY

VICINITY MAP
CITY OF LACEY, WASHINGTON
SCALE : 1" = 2000'

0 1,000 2,000

LACEY CITY LIMITS

OLYMPIA CITY LIMITS

URBAN GROWTH AREA

2022 OVERLAY

LACEY CONTRACT # PW 2022-17

SECTION 2, T18N, R1W, W.M. SECTION 3, T18N, R1W, W.M.
SECTION 11, T18N, R1W, W.M. SECTION 17, T18N, R1W, W.M.
SECTION 29, T18N, R1W, W.M. SECTION 32, T18N, R1W, W.M.
SECTION 35, T18N, R1W, W.M. SECTION 34, T19N, R1W, W.M.
SECTION 35, T19N, R1W, W.M. SECTION 36, T19N, R1W, W.M.

LACEY CITY OFFICIALS

MAYOR: Andy Ryder

DEPUTY MAYOR: Malcolm Miller

CITY COUNCIL: Lenny Greenstein
Michael Steadman
Carolyn Cox
Ed Kunkel
Robin Vazquez

CITY MANAGER: Scott H. Spence

CITY ATTORNEY: David S. Schneider

CITY ENGINEER: Aubrey Collier, P.E.

DIRECTOR OF PUBLIC WORKS: Scott Egger, P.E.

Scott Egger 6/8/22
DATE

SHEET INDEX

SHEET NO.	PAGE NO.	DESCRIPTION
1	CS	COVER SHEET
2	GN	GENERAL NOTES, LEGENDS & ABBREVIATIONS
3	KP	KEY PLAN
4-5	XS1-XS2	TYPICAL CROSS SECTIONS
6-10	C1-C5	MARVIN RD
11-16	C6-C11	GALAXY DR/QUINAULT DR/RAB
17-19	C12-C14	CAMPUS HIGHLANDS DR
20-23	C15-C18	THE ARBORS
24	C19	ROYAL ST
25	C20	NELSON RD
26-28	DT1-DT3	DETAIL SHEETS

LACEY

6/8/2022

Lacey Dwg. Number :
D-22-20

BLOCK LEGEND:

- SURVEY MONUMENT
- CATCH BASIN TYPE 1
- STORM MANHOLE & CB TYPE 2
- FIRE HYDRANT
- AIR & VACUUM RELEASE VALVE
- WATER METER
- WATER VALVE
- REDUCER
- SPRINKLER HEAD
- SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- GAS VALVE
- SIGN
- POLE ANCHOR
- POWER TRANSFORMER
- POWER POLE
- POWER VAULT
- TRAFFIC LOOP
- TRAFFIC SIGNAL
- STANDARD TRAFFIC SIGNAL CONTROLLER
- STREET LIGHT
- JUNCTION BOX
- ELECTRICAL SERVICE
- CABLE TV PEDESTAL
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TREE GRATE
- CONIFER TREE
- DECIDUOUS TREE
- COMMERCIAL SIGN

LINETYPE LEGEND:

- 8+00 — CONSTRUCTION BASELINE
- SS — EASEMENT
- ROAD CENTERLINE
- X — BARB WIRE FENCE
- CHAIN LINK FENCE
- CONCRETE FENCE
- ROCK FENCE
- XXX — WIRE FENCE
- WOOD FENCE
- GRAVEL
- TOE — TOE OF SLOPE
- TOP — TOP OF SLOPE
- DIT — DITCH
- SD — STORM (PAINTED)
- SS — SEWER (PAINTED)
- SS — NEW SEWER
- RIGHT OF WAY
- OTV — OVERHEAD CABLE
- UTV — UNDERGROUND CABLE (PAINTED)
- G — GAS (PAINTED)
- OPH — OVERHEAD PHONE
- OFO — OVERHEAD FIBER OPTIC
- UPH — UNDERGROUND PHONE (PAINTED)
- UFO — UNDERGROUND FIBER OPTIC (PAINTED)
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC (PAINTED)
- W — WATER (PAINTED)
- NEW WATER
- RW — RECLAIMED WATER (PAINTED)
- ABANDON EXISTING UTILITY (SEE PLAN)

CONSTRUCTION HATCH TYPES:

- AREA OF 8" ROADWAY EX. W/ 6" FIBER REINFORCED HMA & 2" CSTC
- AREA OF 5" ROADWAY EX. W/ 3" FIBER REINFORCED HMA & 2" CSTC
- AREA OF 2.5" PLANING W/ 2.5" FIBER REINFORCED HMA OVERLAY
- COMMERCIAL HMA FOR DRIVEWAYS & PATHS

ABBREVIATIONS:

Δ	DEFLECTION ANGLE
EP	EDGE OF PAVEMENT
RT	RIGHT
LT	LEFT
I.E.	INVERT ELEVATION
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
R.	RADIUS
R.P.	RADIUS POINT
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
EX.	EXISTING
EXIST.	EXISTING
STA	STATION
S/W	SIDEWALK
C.S.B.C.	CRUSHED SURFACING BASE COURSE
C.S.T.C.	CRUSHED SURFACING TOP COURSE
CL, ℄	CENTERLINE
CB	CATCH BASIN
N/A	NOT APPLICABLE
A/C	ASPHALT CONCRETE
ACP	ASPHALT CONCRETE PAVEMENT
D.I.	DUCTILE IRON
SD	STORM DRAIN
SS	SANITARY SEWER
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
DIA, ø	DIAMETER
A.P.	ANGLE POINT
V.P.I.	VERTICAL POINT OF INTERSECTION
V.P.C.	VERTICAL POINT OF CURVATURE
V.P.T.	VERTICAL POINT OF TANGENCY
EL.	ELEVATION
S.Y.	SQUARE YARD
C.Y.	CUBIC YARD
TYP.	TYPICAL
LUM.	LUMINAIRE
L.F.	LINEAR FEET
RD.	ROAD
DR.	DRIVE
PKWY.	PARKWAY
CONST.	CONSTRUCTION
FT.	FOOT
D/W	DRIVEWAY
APPROX.	APPROXIMATELY
U.O.N.	UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 OR 811.
2. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS INDICATED ON PLANS OR DIRECTED BY ENGINEER.
4. THE CONTRACTOR SHALL MATCH OVERLAY TO EXISTING PAVEMENT AND DRIVEWAYS AS DIRECTED BY THE ENGINEER.
5. GRINDING LIMITS AND PAVEMENT REPAIR LIMITS SHALL BE IDENTIFIED BY THE ENGINEER IN THE FIELD AND MAY VARY FROM THOSE SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL RESTORE ALL LANDSCAPING TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESTORING MONUMENTS OR PROPERTY CORNERS OUTSIDE OF THE CONSTRUCTION LIMITS.

BASIS OF BEARING

MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 – SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259R, GP34005-2, GP34005-4, GP34101-32, GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478.
DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

METHOD OF SURVEY

SURVEY PERFORMED BY CONVENTIONAL FIELD TRAVERSE USING A LEICA TS-16 (THREE SECOND TOTAL STATION), LINEAR AND ANGULAR CLOSURE OF THE TRAVERSE MEET THE STANDARDS OF WAC 332-130-090.

BOUNDARY

THE BOUNDARY WAS COMPILED USING PHYSICAL FEATURES TIED IN THE FIELD AND DOCUMENTS OF RECORD AS SHOWN BELOW.

SURVEYS REFERENCED
AF# 3506522, 1064249, 3111152, 3235138, 3676971, 3787752, 4851922, 3427956, WSDOT I5-SR510 INTERCHANGE PG 100 OF 792

SHORT SUB REFERENCED
AF# 9010190040, 1112095

BLA REFERENCED
AF# 3304105, 3672120, 3806473, 3947853, 3979209, 3257449, 3309033

BSP REFERENCED
AF# 3030480, 3221116, 3251153, 3692047, 4759700, 3697509, 3796801, 4603317, 4726192, 4731210

PLATS REFERENCED
AF# 783200, 3379385, 3814130, 3814134, 3827484, 3964358, 3810790, 3838891, 9401180197, 415

DEEDS REFERENCED
AF# 4003215, 4359322, 3229916, 3440326, 3461867, 4050317, 4269436, 4346281, 4377989, 4386587, AF# 4403245, 4521357, 4667076, 4677175, 4686113, 4765127, 4795431, 541500, 3344321, 8308040001, 8908160098

CONDO REFERENCED
AF#449210

SOURCE OF UTILITY MARKINGS

SURFACE MARKINGS PROVIDED BY UTILITY NOTIFICATION CENTER (callbeforeyoudig.org) TICKET # 21478505, 21478506, 21478507, 21478508NOTE: "COMMUNICATION UTILITIES WERE NOT MARKED IN FIELD"

VERTICAL

THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

BENCHMARK

CITY OF LACEY BM#1076
MOST EASETERLY 1-1/2" SURFACE MON @ THE INTERSECTION OF GALAXY DR. NE. & 14TH AVE. NE.
ELEV.=208.73

CITY OF LACEY BM#1414
2" BRASS DISK AT THE INTERSECTION OF CAMPUS HIGHLANDS DR NE & CAMERON DR NE
ELEV.=263.81

CITY OF LACEY BM#1104
8" CONC. MON W/2" BRASS DISK LS#29278 AT THE INTERSECTION OF MARVIN RD NE & HAWKS PRAIRIE RD NE (ROUND-ABOUT)
ELEV.=268.626

CITY OF LACEY BM#1166
3" SURFACE MON @ THE INTERSECTION OF KAPALEA WAY SE & SEVILLE DR. SE.
ELEV.=220.43

CITY OF LACEY BM#1638
1/2" COL R/C NW QUAD OF SLEATER-KINNEY RD SE & 12TH AVE SE, 5' NORTH OF B/W
ELEV.=202.27

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

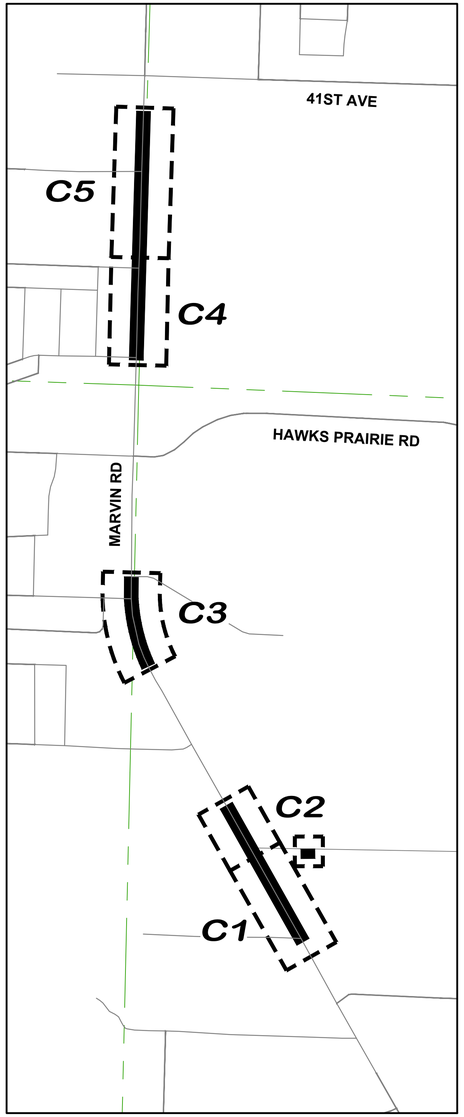
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	CSGN.DWG

2022 OVERLAY
GENERAL NOTES, LEGENDS, & ABBREVIATIONS

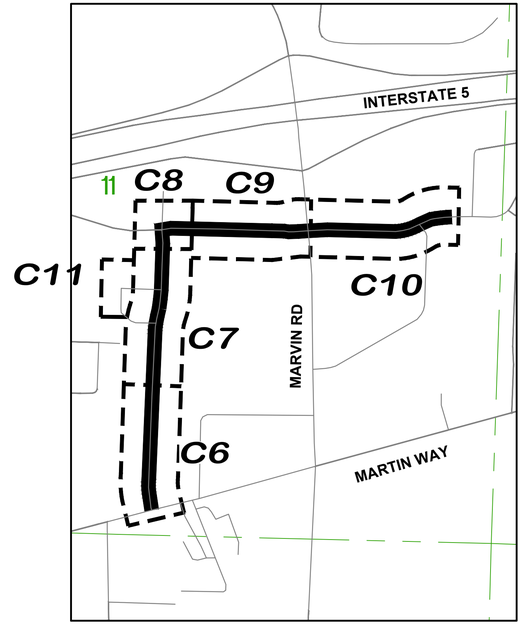
REVISION BLOCK

NO.	DATE	DESCRIPTION

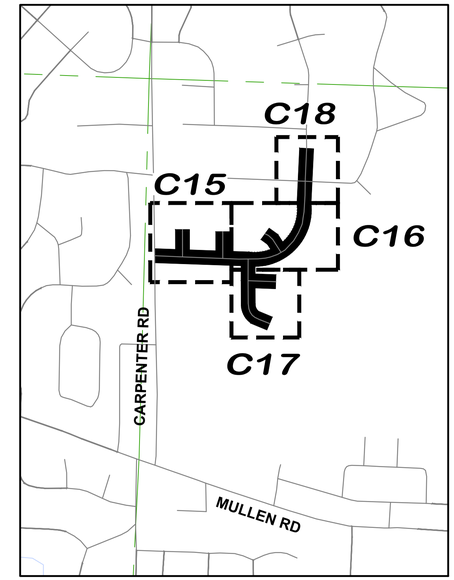
PAGE NO. GN
DWG NO. D-22-20
SHEET NO. 2 OF 28



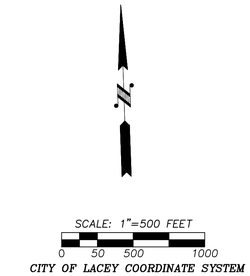
MARVIN RD NE

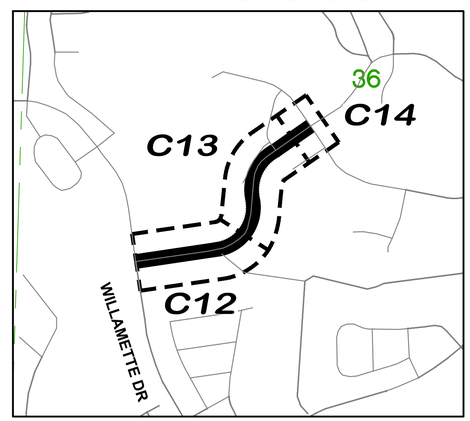


GALAXY DR NE/ QUINAULT DR NE
14TH AVE NE/RAB

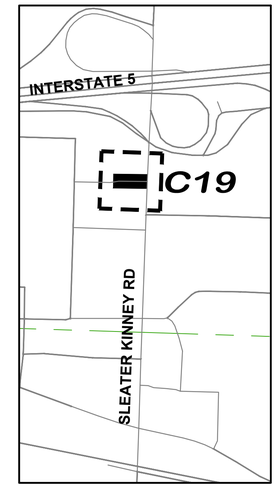


THE ARBORS





CAMPUS HIGHLANDS DR NE



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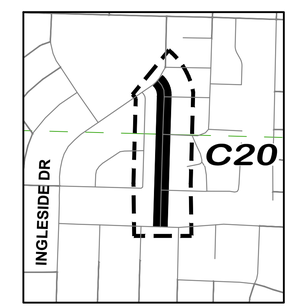
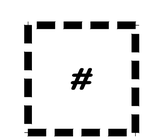


NELSON RD SE



PAGE NUMBER FOR IMPROVEMENT PLANS.

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

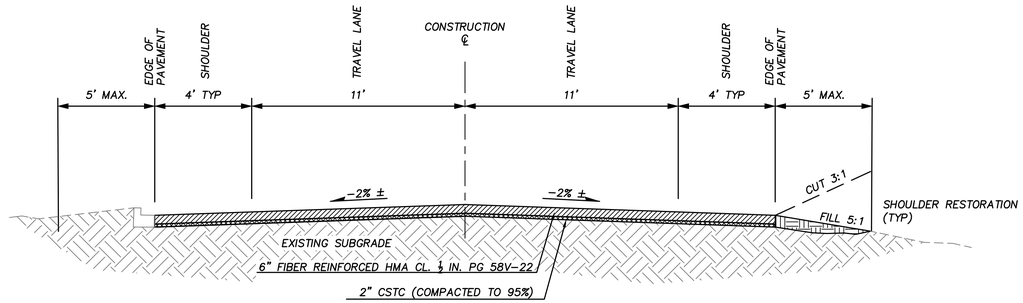
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=500'
VERT. SCALE:	N/A
FILE:	KP.DWG

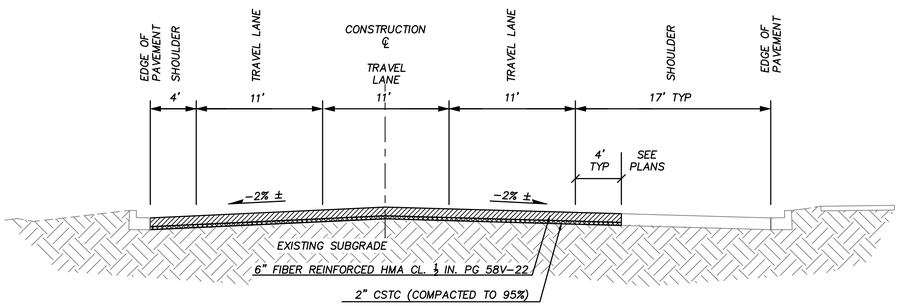
2022 OVERLAY
KEY PLAN

REVISION BLOCK		
NO.	DATE	DESCRIPTION

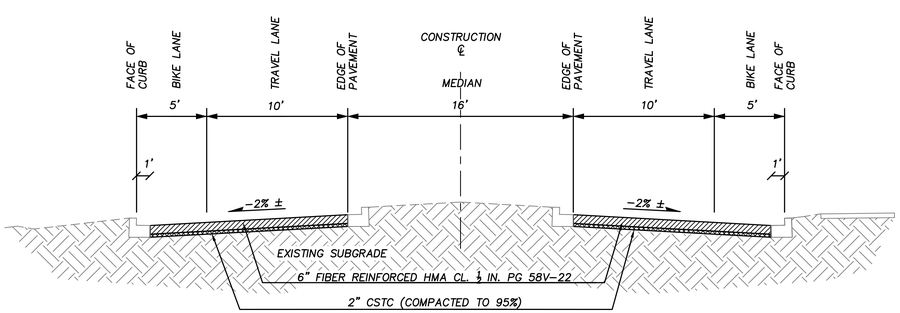
PAGE NO. KP
DWG NO. D-22-20
SHEET NO. 3 OF 28



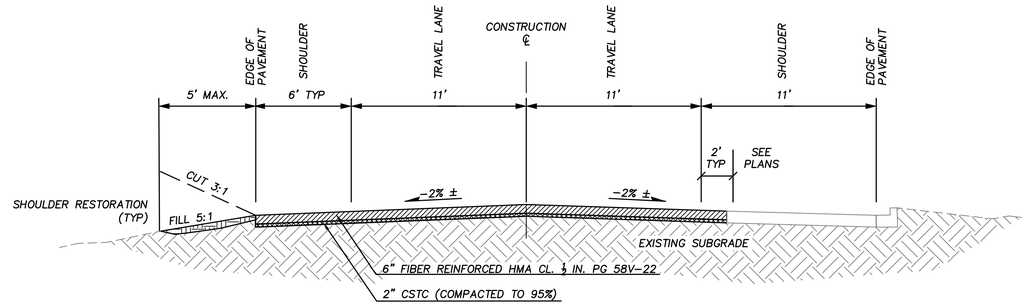
ROADWAY SECTION A (MARVIN RD NE)
STA 1+14.7 TO STA 8+00



ROADWAY SECTION B (MARVIN RD NE)
STA 8+00 TO STA 12+10.6



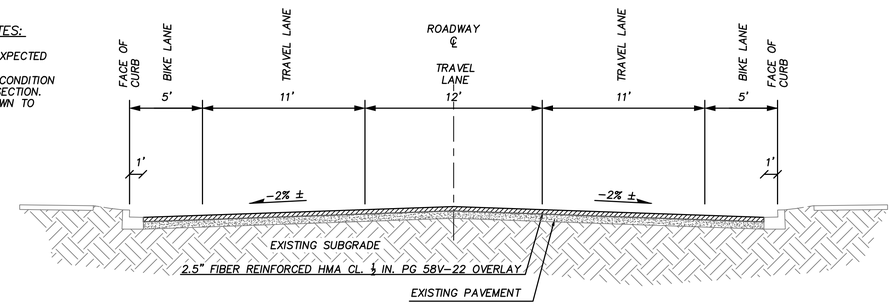
ROADWAY SECTION C (MARVIN RD NE)
STA 23+28.5 TO STA 29+69.4



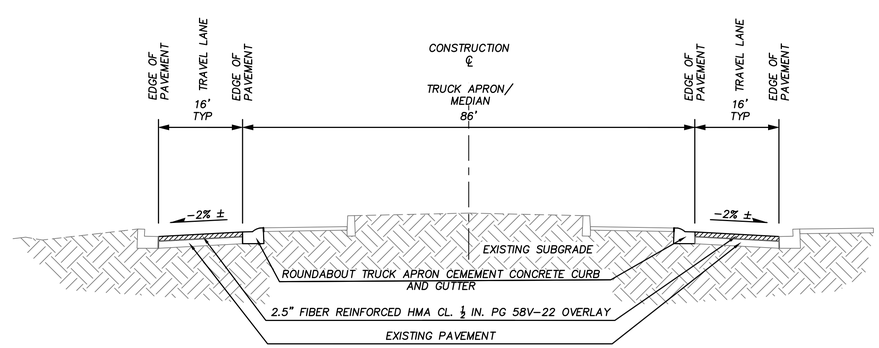
ROADWAY SECTION D (MARVIN RD NE)
STA 44+83.3 TO STA 61+96.0

TYPICAL CROSS-SECTION NOTES:

1. EXISTING PAV'T THICKNESS IS EXPECTED TO BE 3"-6" ON ALL STREETS.
2. EDGE CONDITIONS WILL VARY. CONDITION SHOWN IS TYPICAL FOR EACH SECTION.
3. CROSS SECTIONS ARE NOT SHOWN TO SCALE



ROADWAY SECTION E (GALAXY DR NE)
STA 0+81.4 TO STA 19+00



ROADWAY SECTION F (GALAXY/QUINAULT/I-5 RAB)

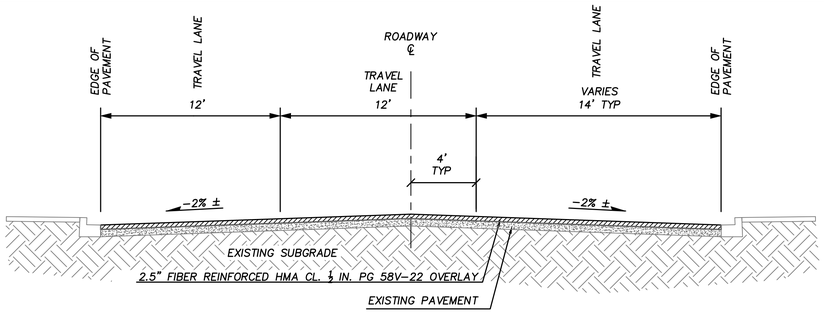
CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	NTS
VERT. SCALE:	N/A
FILE:	IS

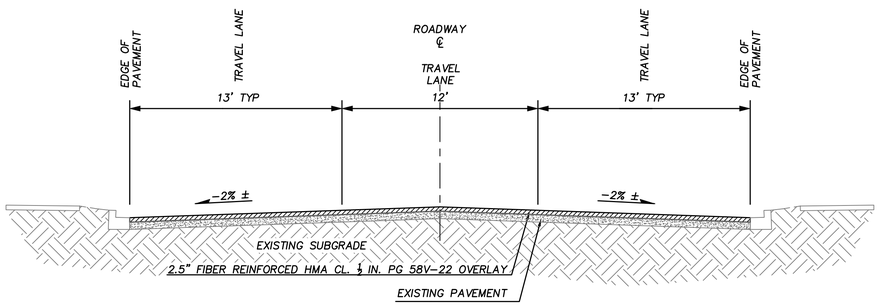
2022 OVERLAY
TYPICAL CROSS SECTIONS

REVISION BLOCK		
NO.	DATE	DESCRIPTION

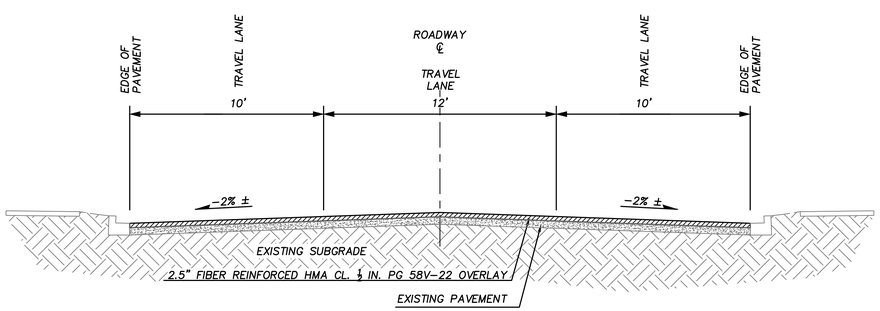
PAGE NO. XS1
DWG NO. D-22-20
SHEET NO. 4 OF 28



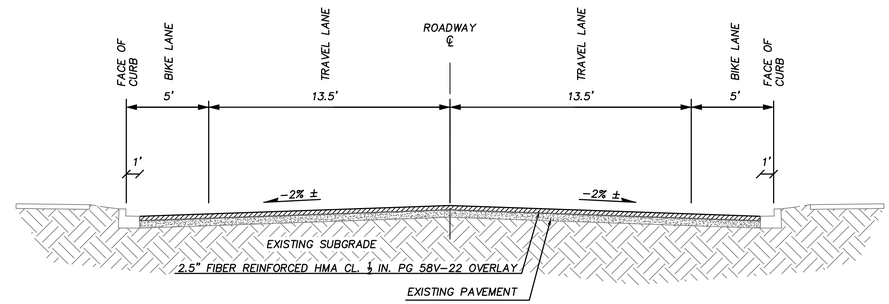
ROADWAY SECTION G (QUINAULT DR NE)
STA 103+50 TO STA 113+00



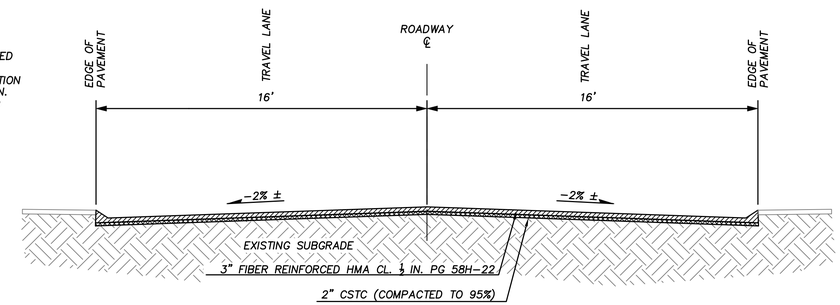
ROADWAY SECTION H (QUINAULT DR NE)
STA 113+00 TO STA 123+10



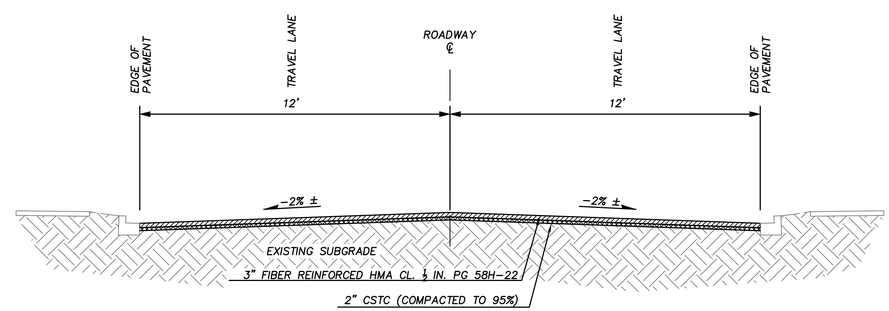
ROADWAY SECTION I (14TH AVE NE)
STA 300+30 TO STA 302+68.4



ROADWAY SECTION I (CAMPUS HIGHLANDS DR NE)
STA 0+37.7 TO STA 18+07.8



ROADWAY SECTION J (43RD AVE/ARBOR DR/ARBOR CT/FIR CT/CEDAR CT/ELM CT/JUNIPER CT)
ENTIRE LIMIT



ROADWAY SECTION K (ROYAL AVE SE)
STA 0+50 TO STA 2+25.3

TYPICAL CROSS-SECTION NOTES:

1. EXISTING PAV'T THICKNESS IS EXPECTED TO BE 3"-6" ON ALL STREETS.
2. EDGE CONDITIONS WILL VARY. CONDITION SHOWN IS TYPICAL FOR EACH SECTION.
3. CROSS SECTIONS ARE NOT SHOWN TO SCALE

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

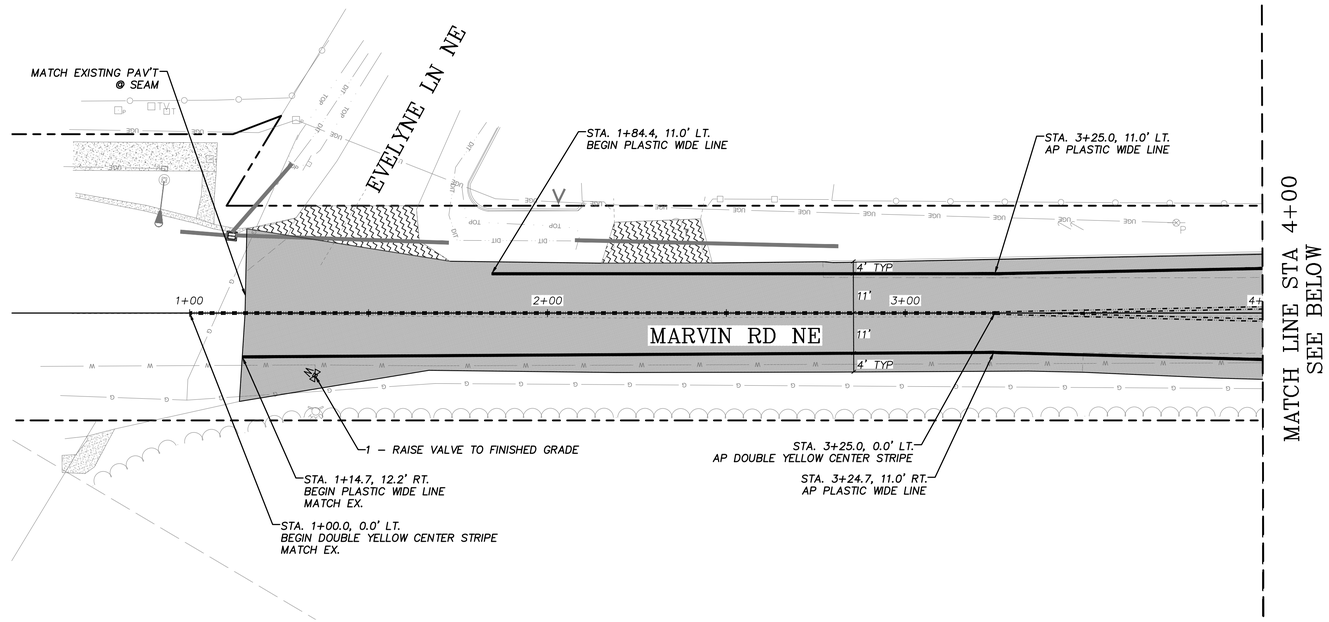
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	NTS
VERT. SCALE:	N/A
FILE:	IS

2022 OVERLAY
TYPICAL CROSS SECTIONS

REVISION BLOCK		
NO.	DATE	DESCRIPTION

PAGE NO. XS2
DWG NO. D-22-20
SHEET NO. 5 OF 28

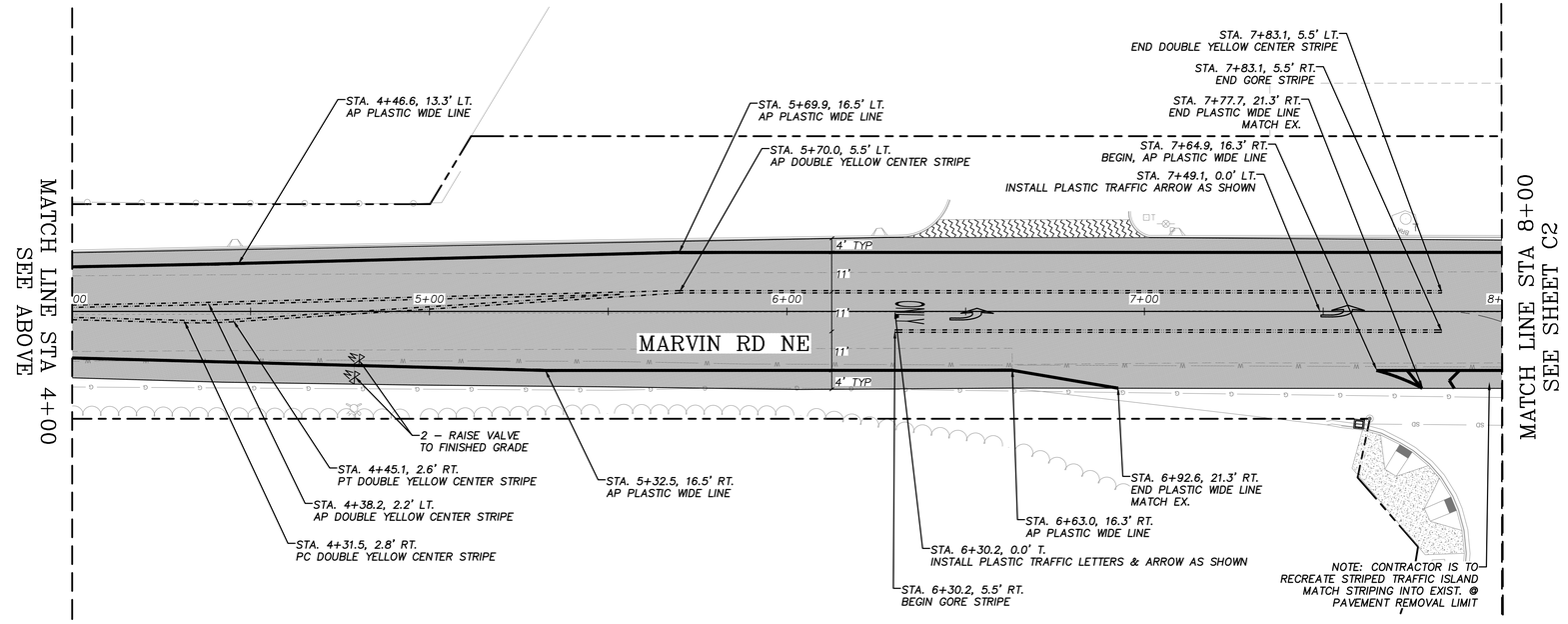
SEC. 02, T18N, R1W, W.M.



SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

AREA OF 8" ROADWAY EX. W/ 6" FIBER REINFORCED HMA & 2" CSTC

COMMERCIAL HMA FOR DRIVEWAYS & PATHS



SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	MARVIN.DWG

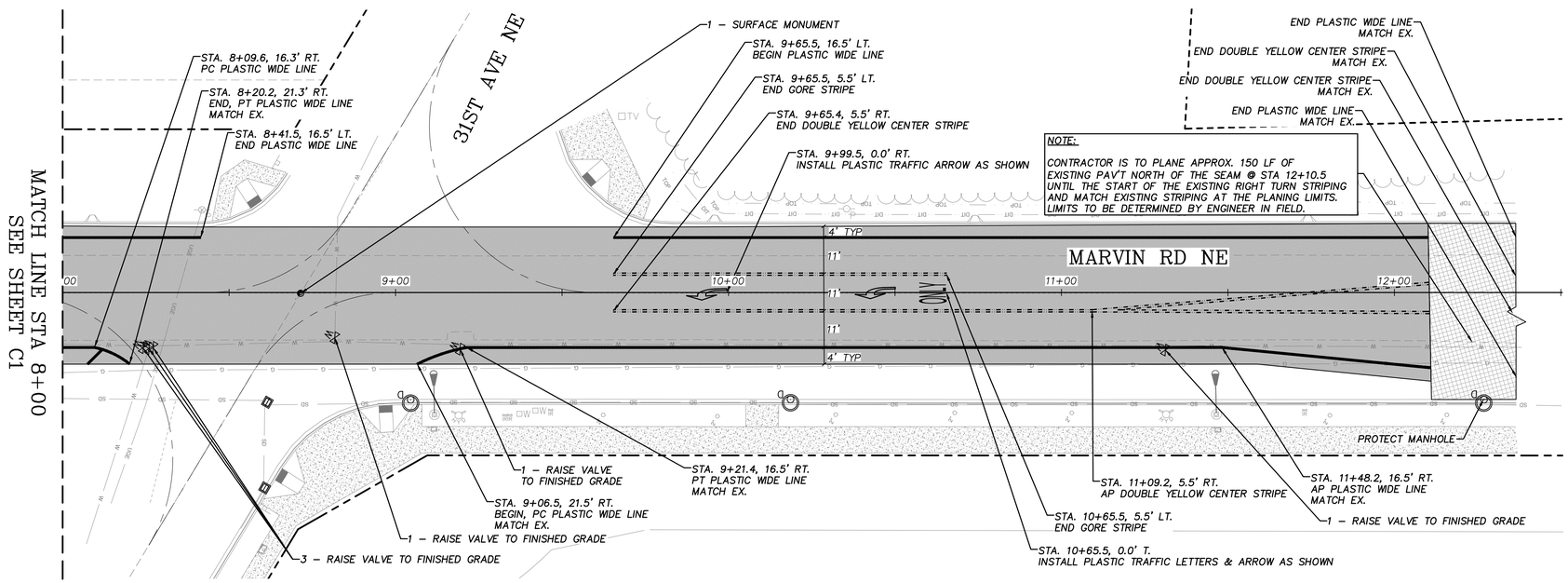
2022 OVERLAY
MARVIN RD
STA 1+00 TO STA 8+00

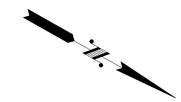
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C1	6
DWG NO.	OF
D-22-20	28

SEC. 02, T18N, R1W, W.M.



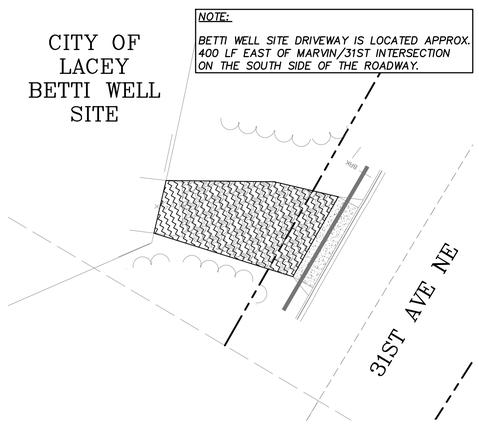


SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

AREA OF 8" ROADWAY EX. W/ 6" FIBER REINFORCED HMA & 2" CSTC

COMMERCIAL HMA FOR DRIVEWAYS & PATHS

AREA OF 2.5" PAVEMENT REMOVAL W/ 2.5" FIBER REINFORCED HMA OVERLAY



SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

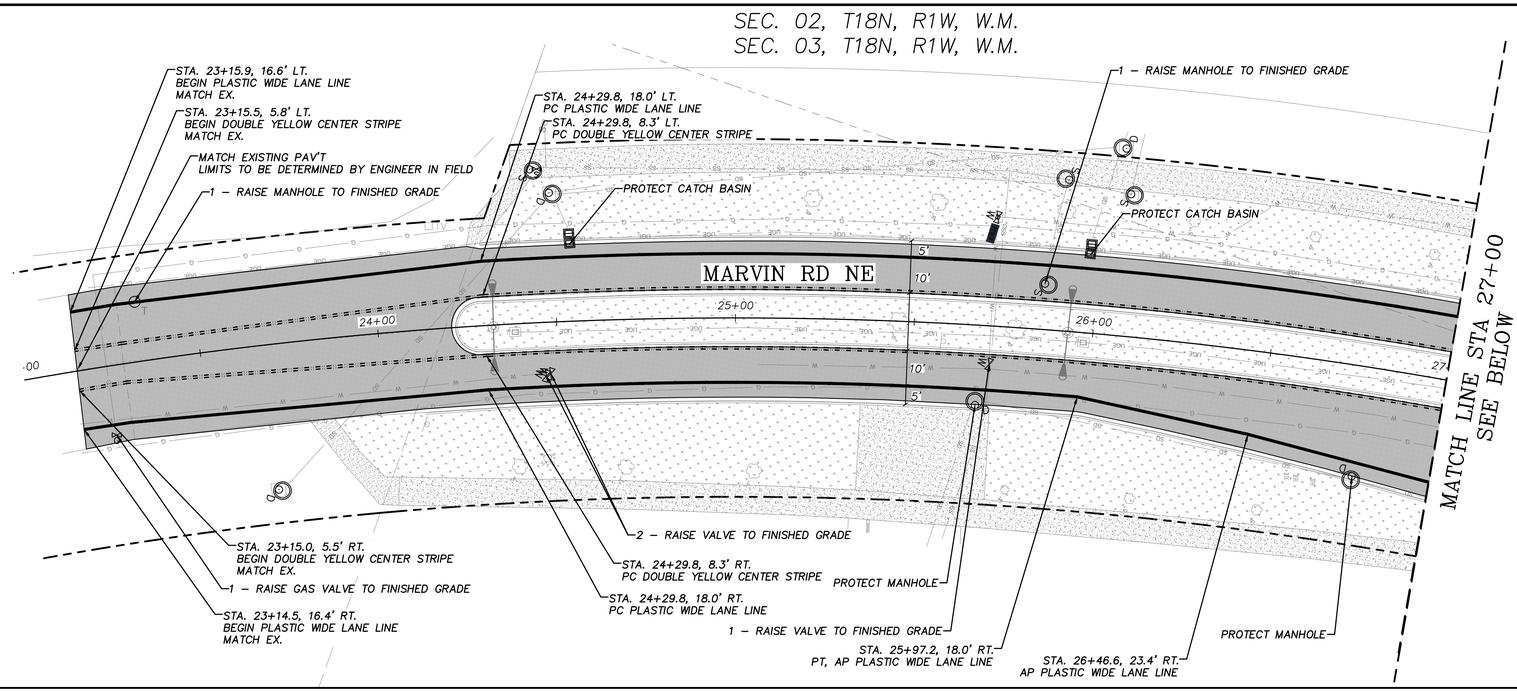
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	MARVIN.DWG

2022 OVERLAY
MARVIN RD
STA 8+00 TO STA 12+50

REVISION BLOCK

NO.	DATE	DESCRIPTION

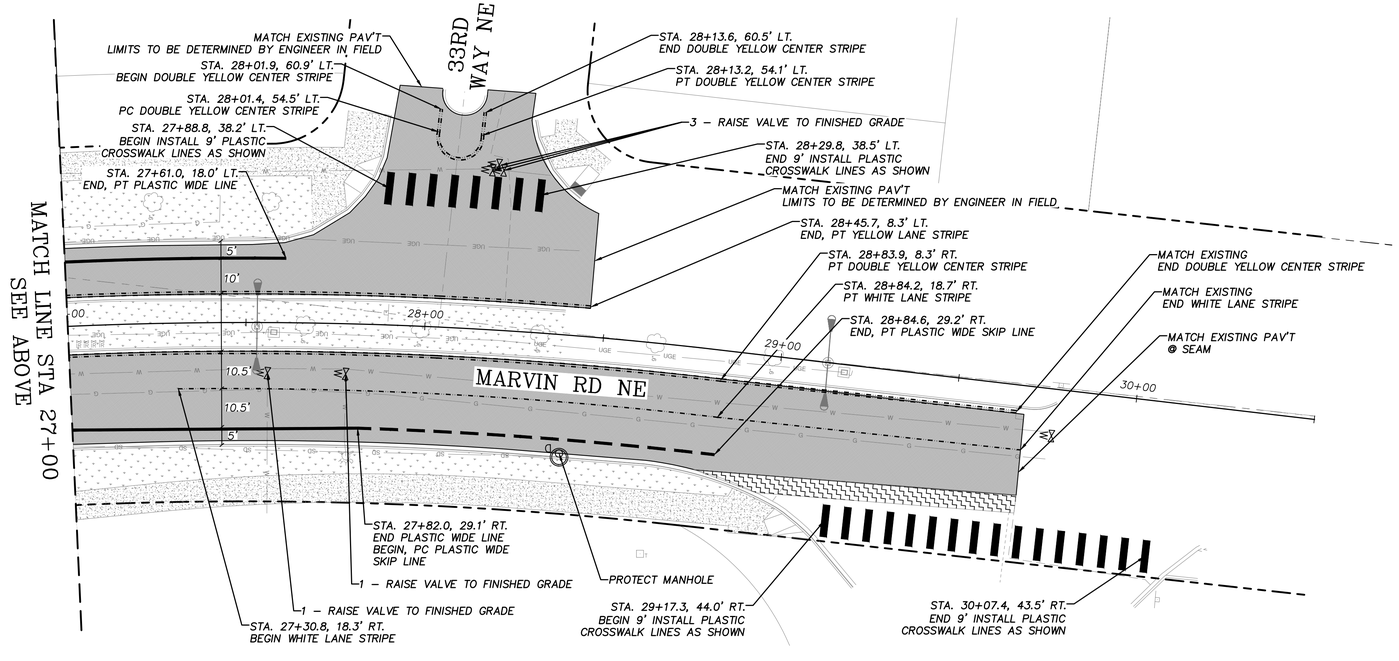
PAGE NO.	SHEET NO.
C2	7
DWG NO.	OF
D-22-20	28



SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

AREA OF 8" ROADWAY EX. W/ 6" FIBER REINFORCED HMA & 2" CSTC

COMMERCIAL HMA FOR DRIVEWAYS & PATHS



SCALE: 1"=20 FEET
0 10 20 40
CITY OF LACEY COORDINATE SYSTEM

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

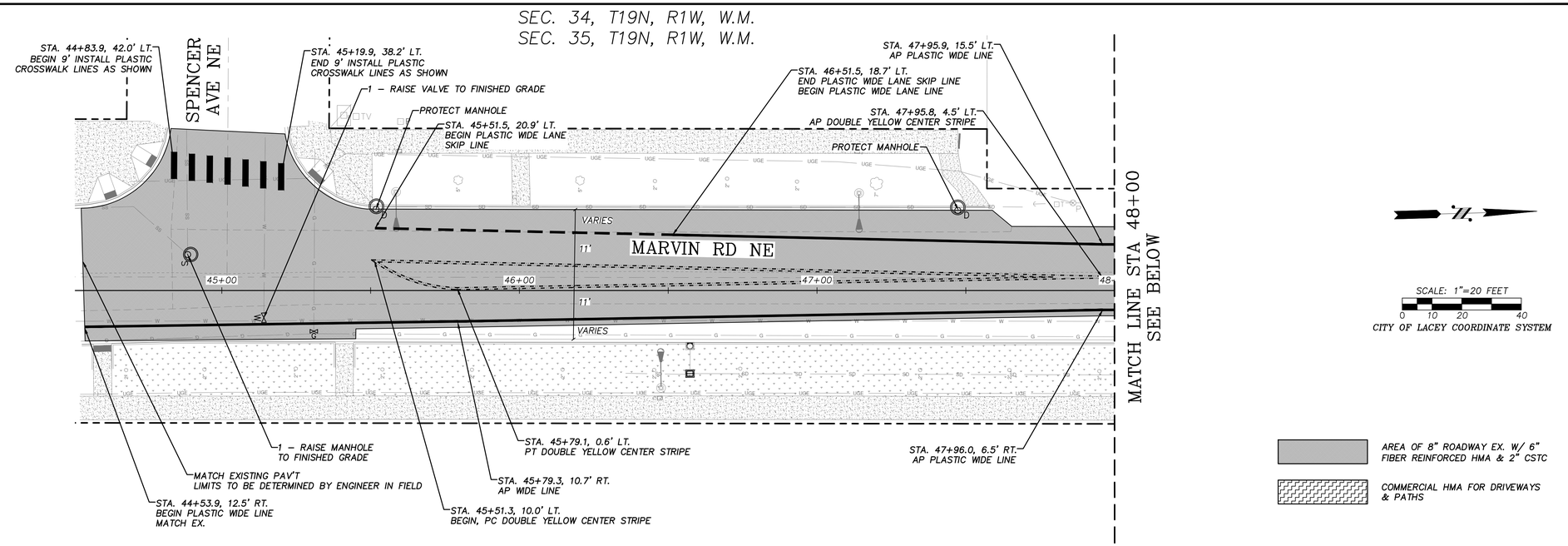
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	MARVIN.DWG

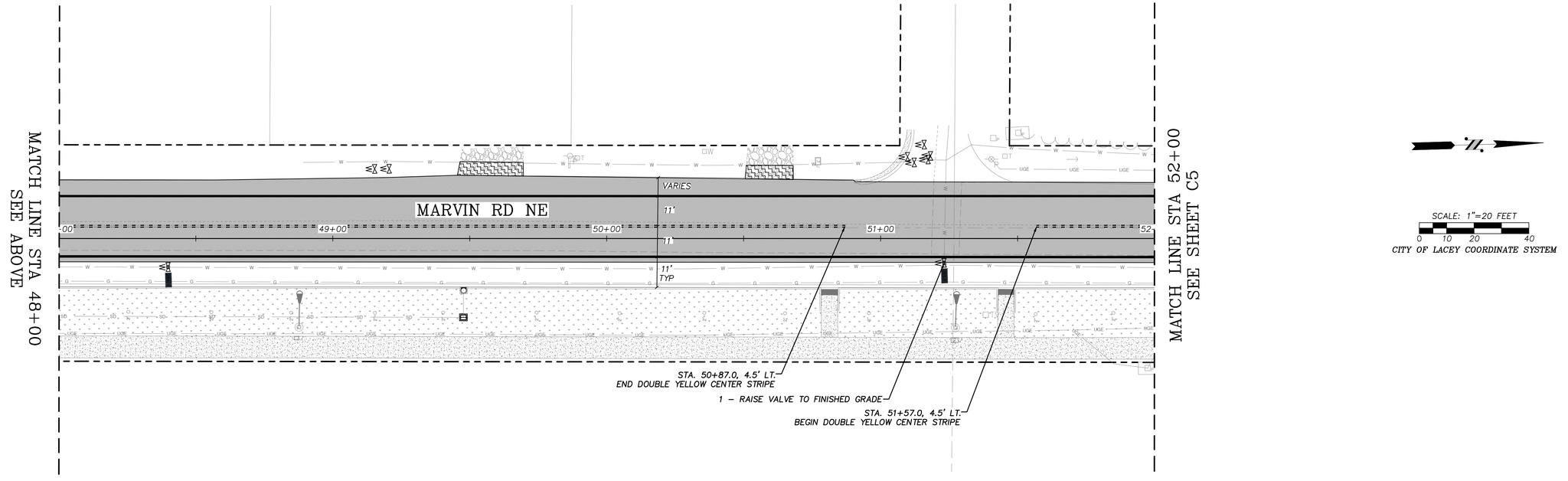
2022 OVERLAY
MARVIN RD
STA 23+00 TO STA 30+50

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C3	8
DWG NO.	OF
D-22-20	28





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

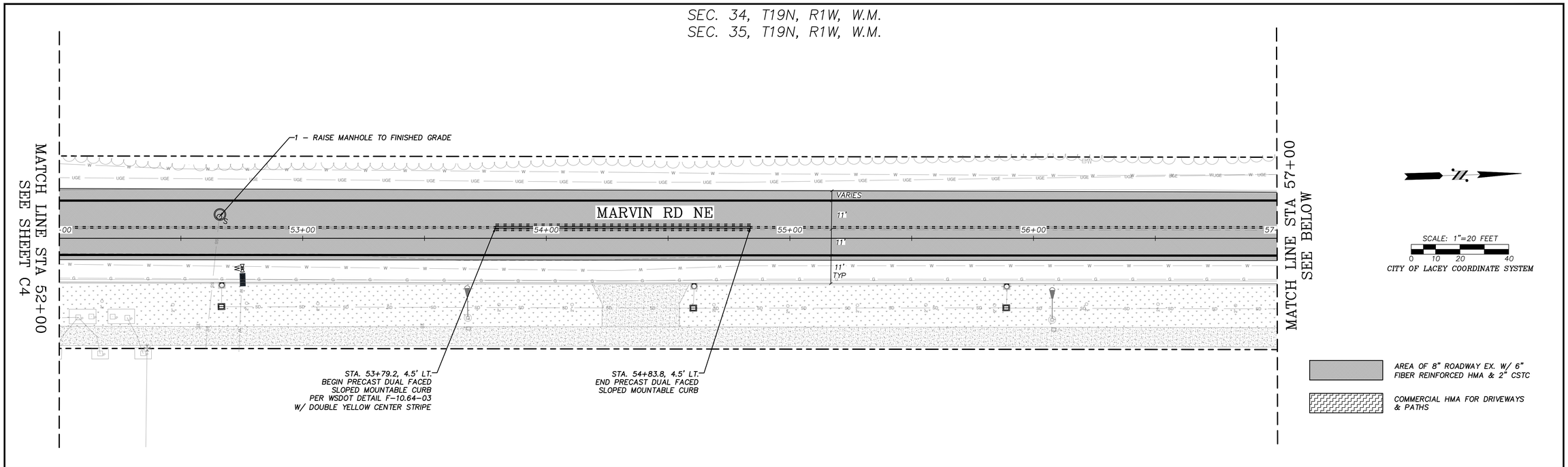
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	MARVIN.DWG

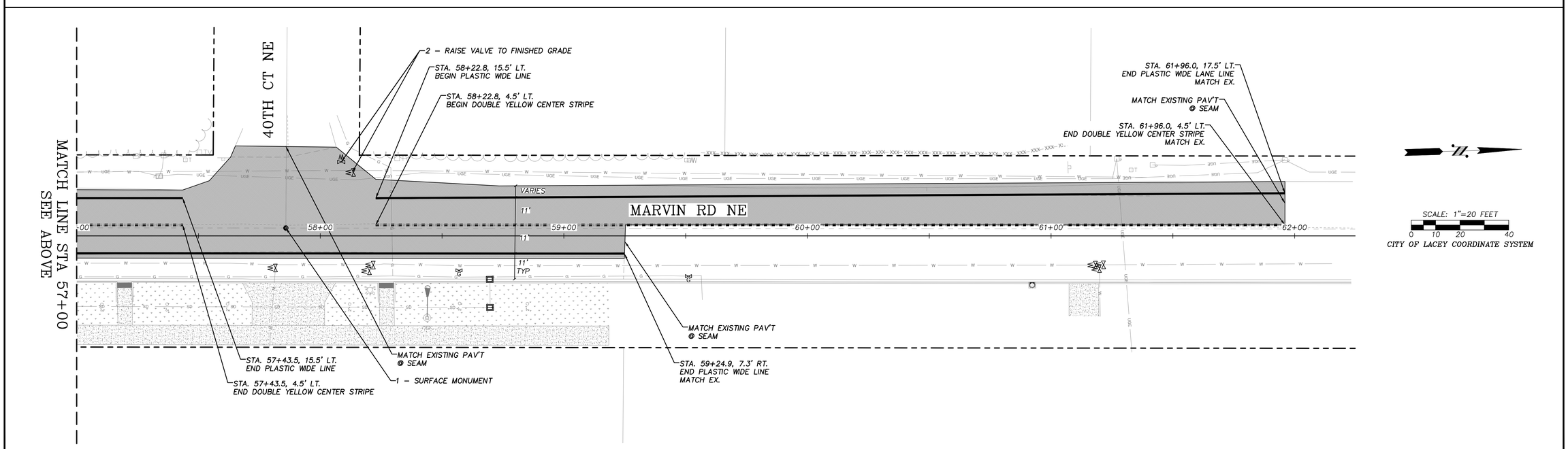
2022 OVERLAY
MARVIN RD
STA 44+50 TO STA 52+00

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C4	9
DWG NO.	OF
D-22-20	28





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	MARVIN.DWG

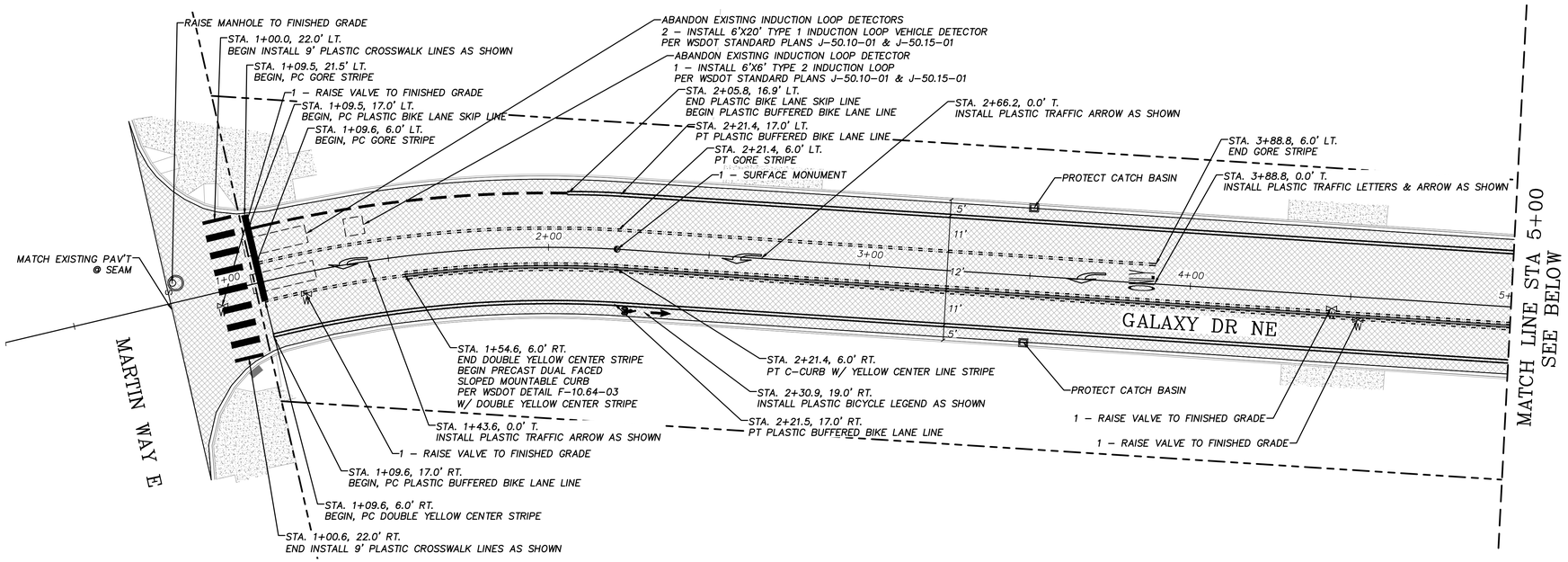
2022 OVERLAY
MARVIN RD
STA 52+00 TO STA 62+25

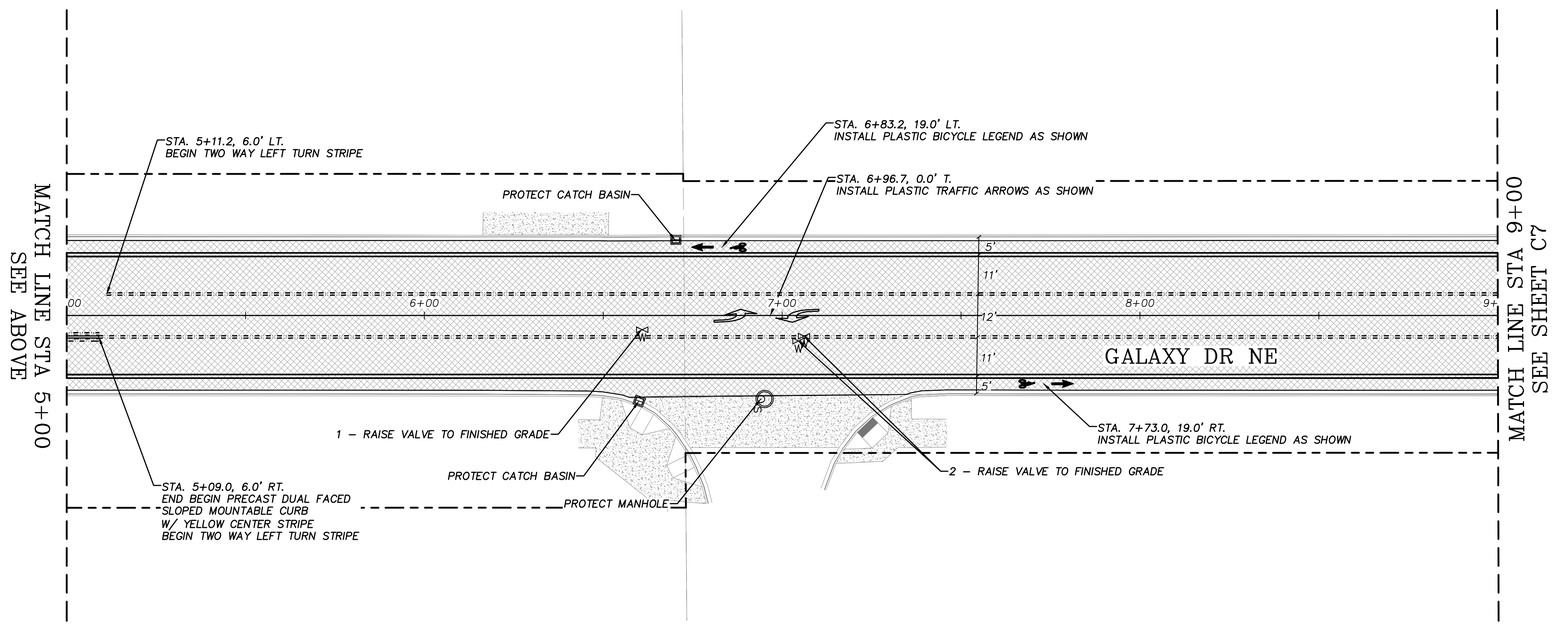
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C5	10
DWG NO.	OF
D-22-20	28

SEC. 11, T18N, R1W, W.M.





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

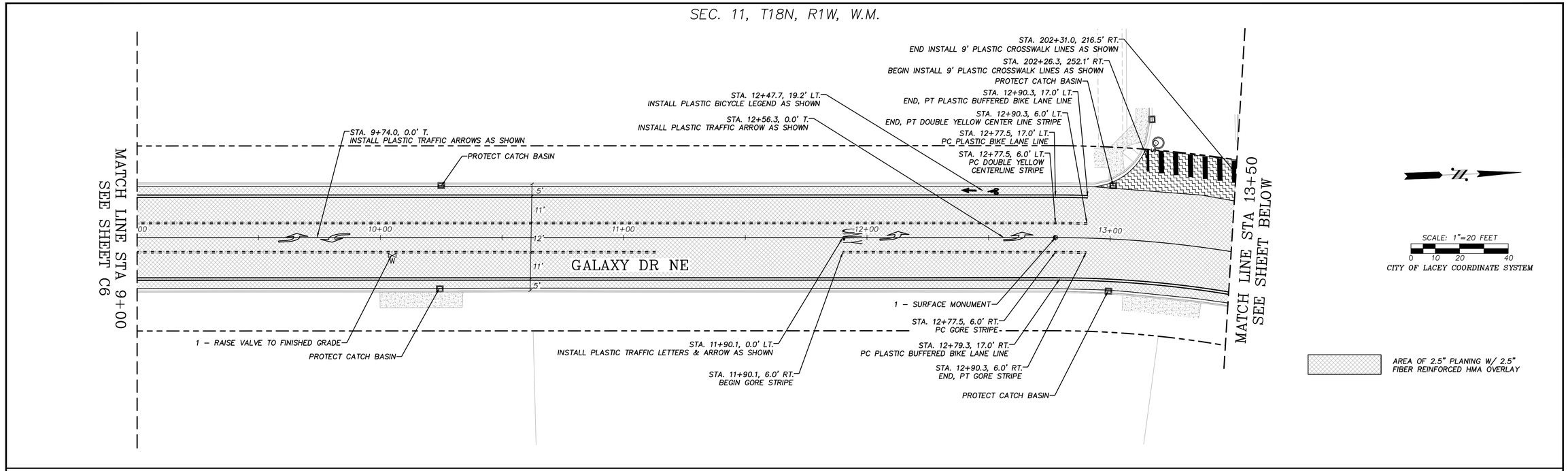
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXYQUINAULT.DWG

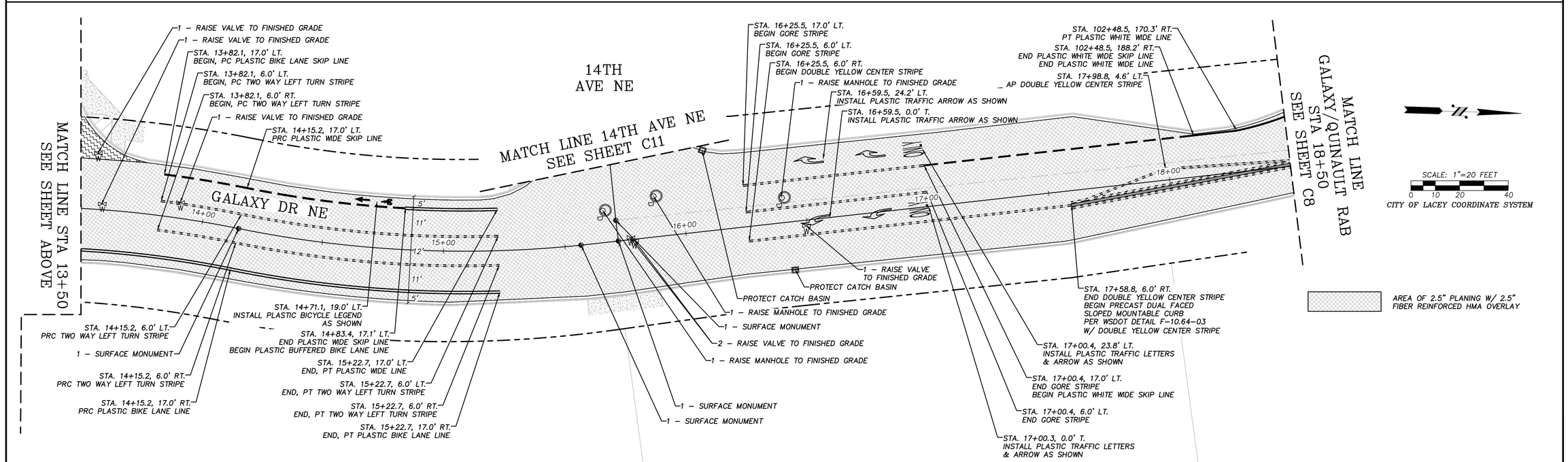
2022 OVERLAY

GALAXY DR – QUINAULT DR – 14TH AVE
STA 0+50 TO STA 9+00

REVISION BLOCK		
NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C6	11
DWG NO.	OF
D-22-20	28





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXYQUINAULT.DWG

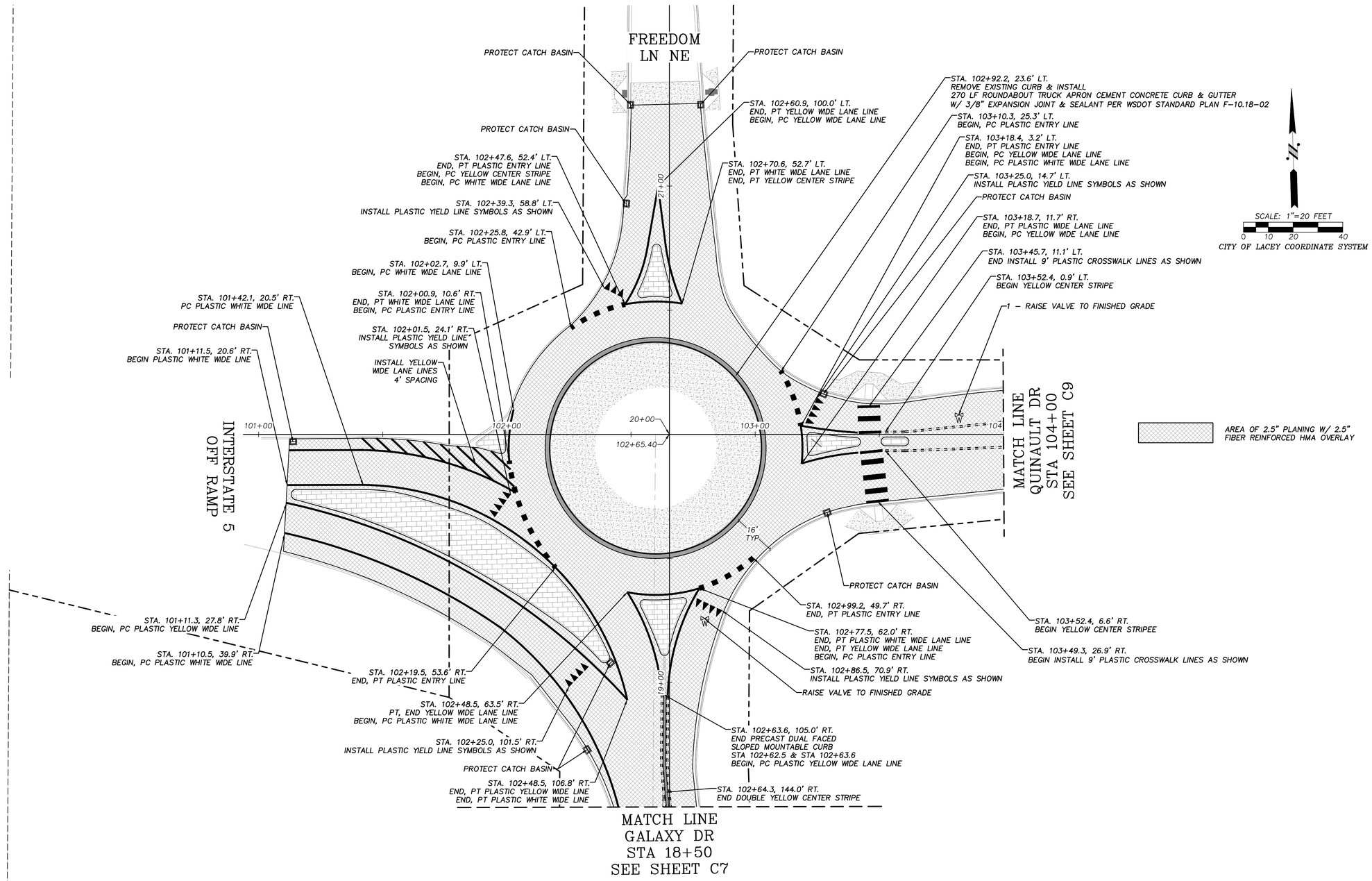
2022 OVERLAY

GALAXY DR – QUINAULT DR – 14TH AVE
STA 9+00 TO STA 18+50

REVISION BLOCK		
NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C7	12
DWG NO.	OF
D-22-20	28

SEC. 11, T18N, R1W, W.M.



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXYQUINAULT.DWG

2022 OVERLAY

GALAXY DR - QUINAULT DR - 14TH AVE RAB

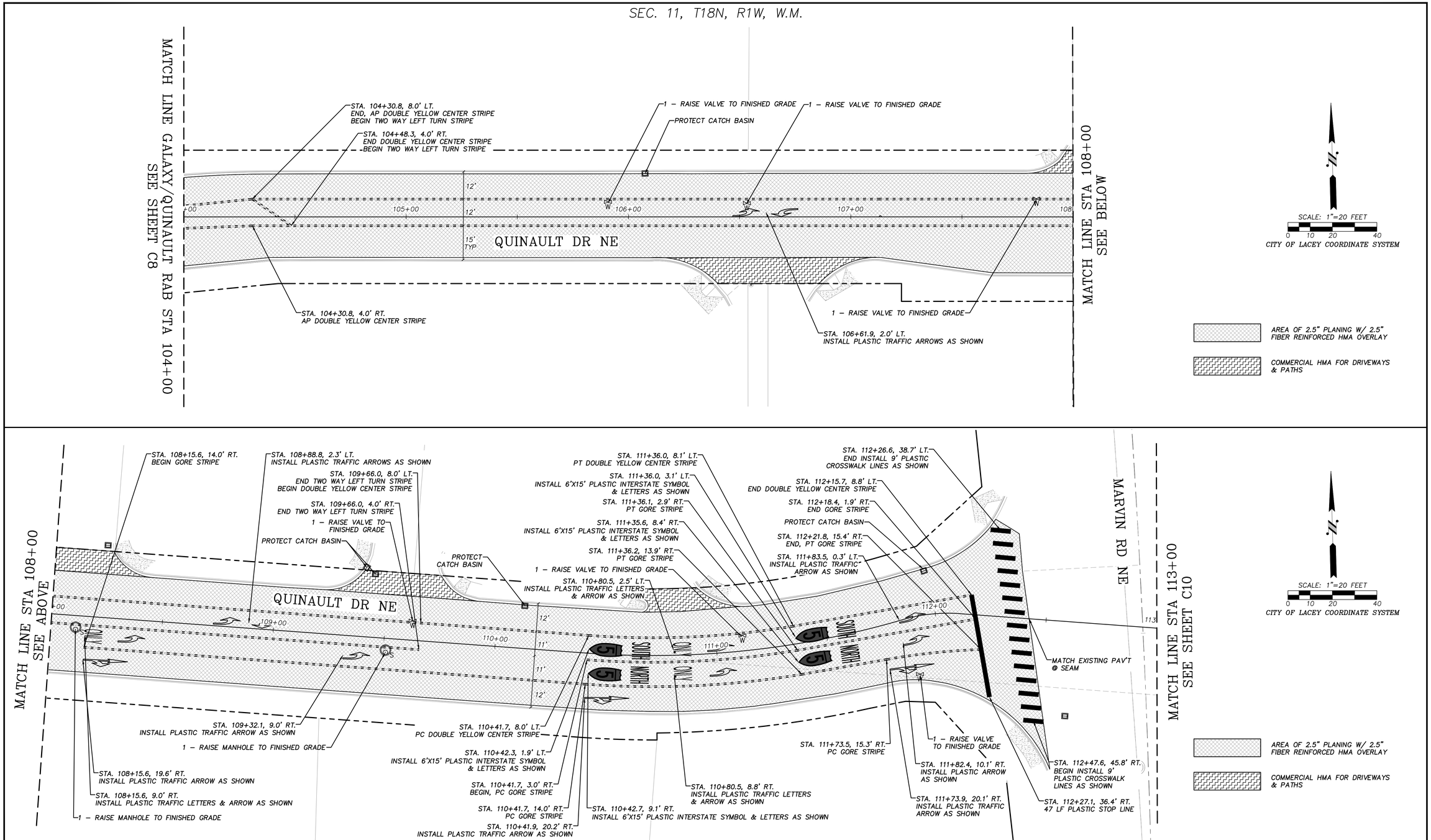
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO. C8

DWG NO. D-22-20

SHEET NO. 13 OF 28



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXYQUINAULT.DWG

2022 OVERLAY

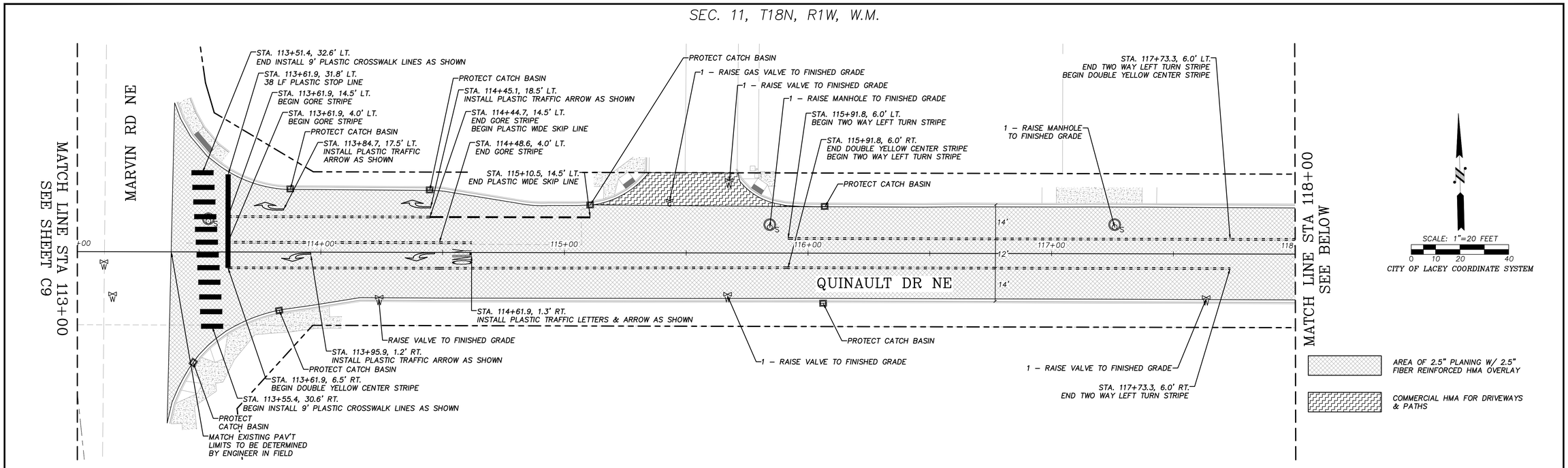
GALAXY DR – QUINAULT DR – 14TH AVE
STA 104+00 TO STA 113+00

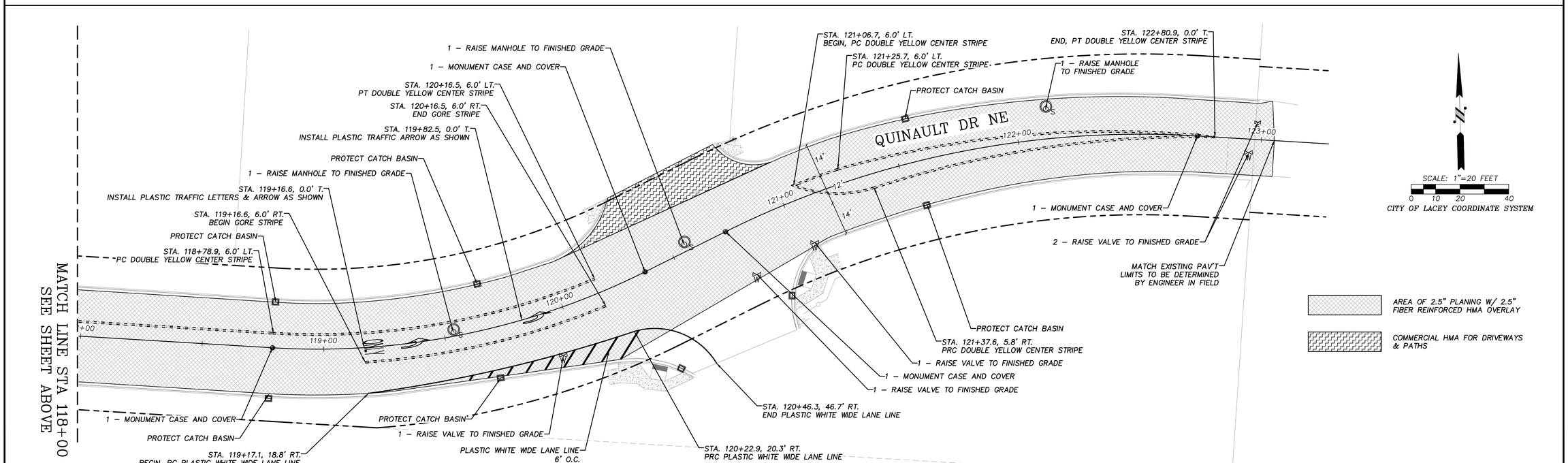
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C9	14
DWG NO.	OF
D-22-20	28

SEC. 11, T18N, R1W, W.M.





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXIQUINAULT.DWG

2022 OVERLAY

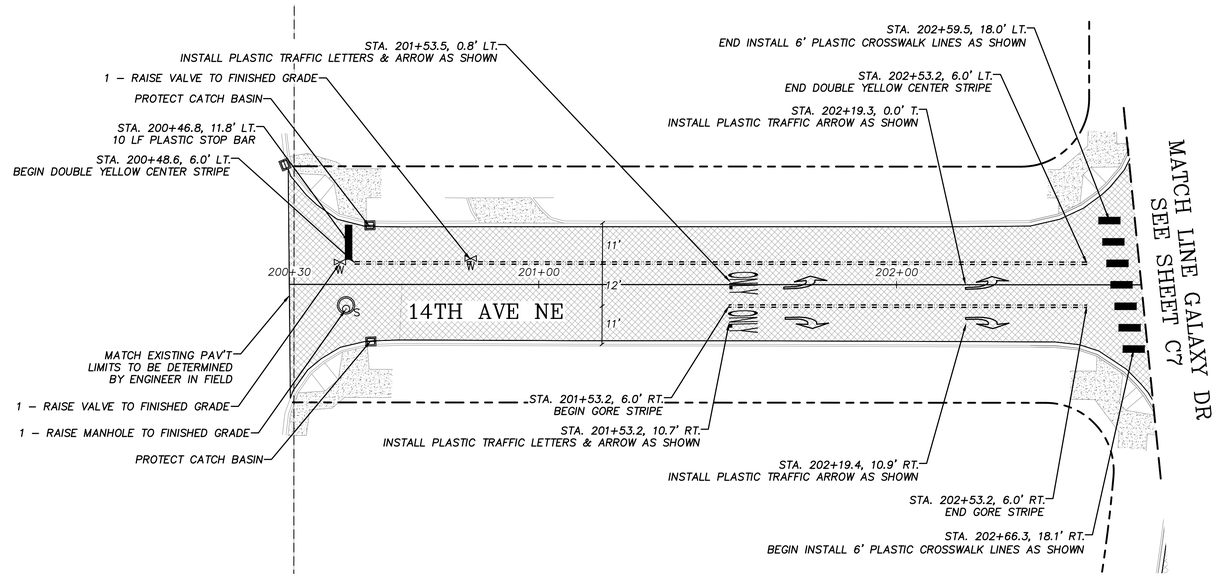
GALAXY DR – QUINAULT DR – 14TH AVE
STA 113+00 TO STA 123+25

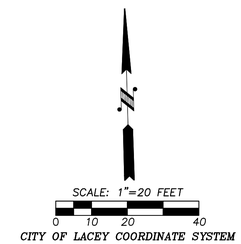
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C10	15
DWG NO.	OF
D-22-20	28

SEC. 11, T18N, R1W, W.M.





AREA OF 2.5" PLANING W/ 2.5" FIBER REINFORCED HMA OVERLAY

COMMERCIAL HMA FOR DRIVEWAYS & PATHS

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	GALAXYQUINAULT.DWG

2022 OVERLAY

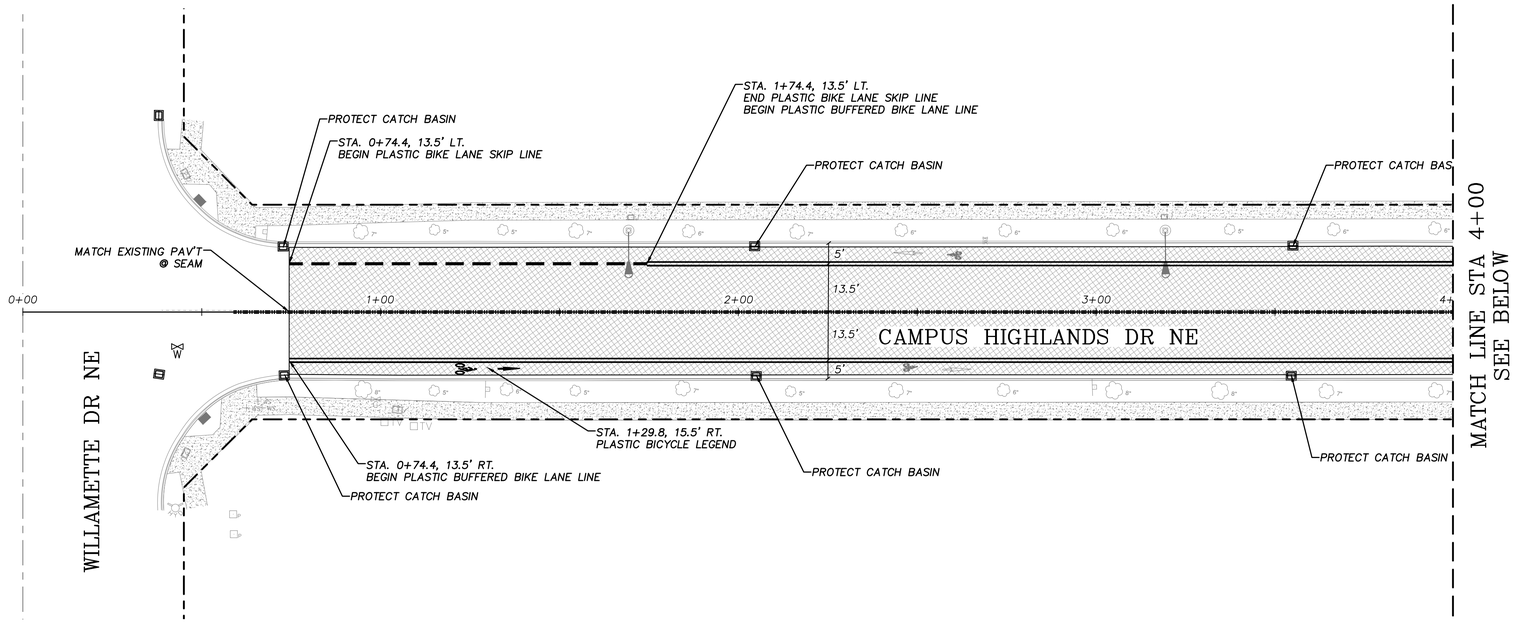
GALAXY DR – QUINAULT DR – 14TH AVE
STA 200+30 TO STA 202+70

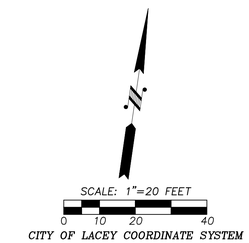
REVISION BLOCK

NO.	DATE	DESCRIPTION

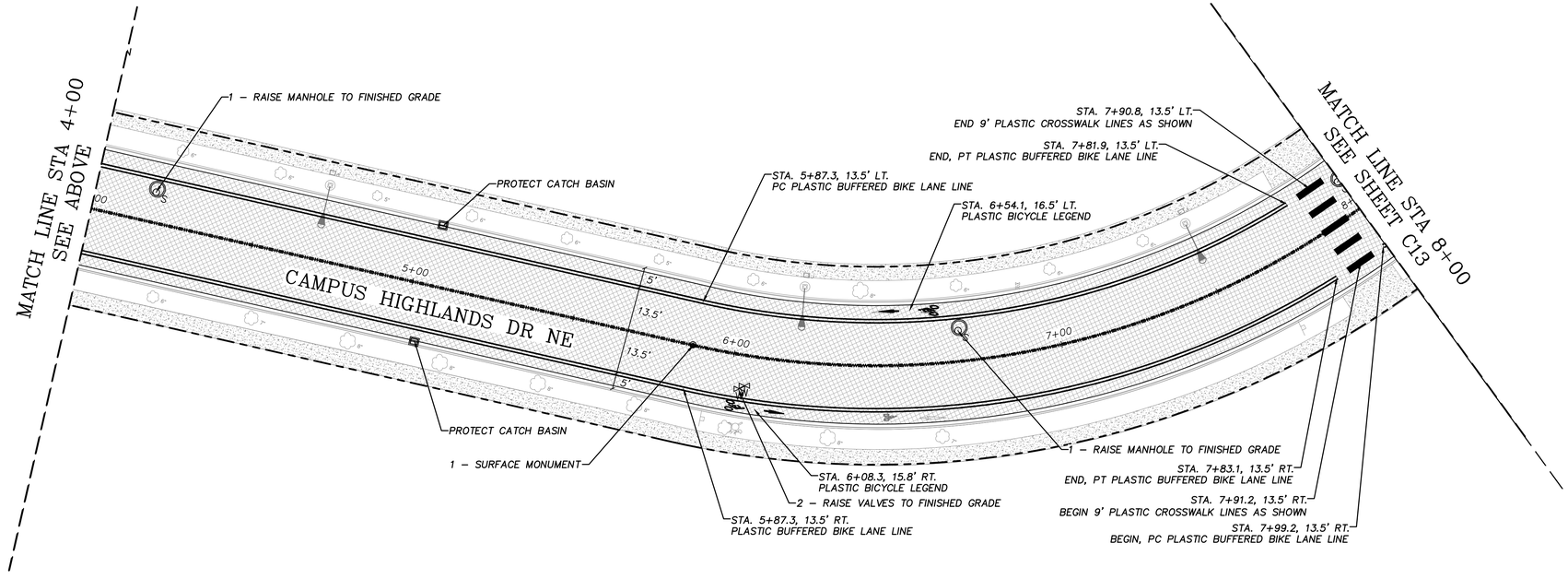
PAGE NO.	SHEET NO.
C11	16
DWG NO.	OF
D-22-20	28

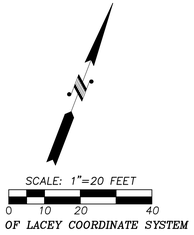
SEC. 36, T19N, R1W, W.M.





AREA OF 2.5" PLANING W/ 2.5" FIBER REINFORCED HMA OVERLAY





AREA OF 2.5" PLANING W/ 2.5" FIBER REINFORCED HMA OVERLAY

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	CAMPUSHIGHLANDS.DWG

2022 OVERLAY

CAMPUS HIGHLANDS DR

STA 0+00 TO STA 8+00

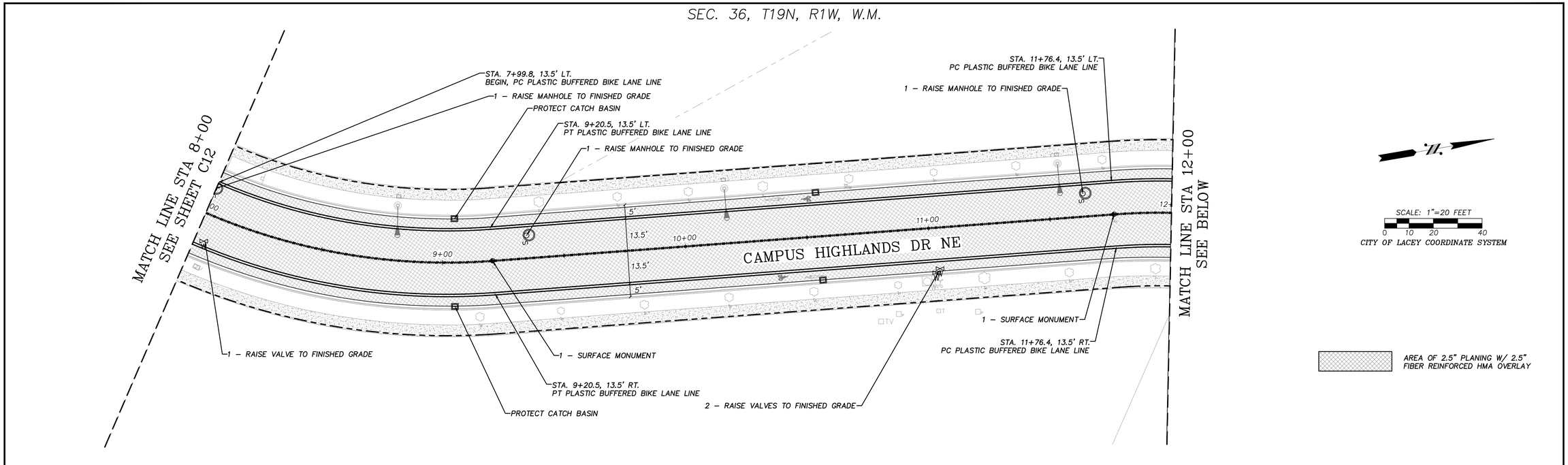
REVISION BLOCK

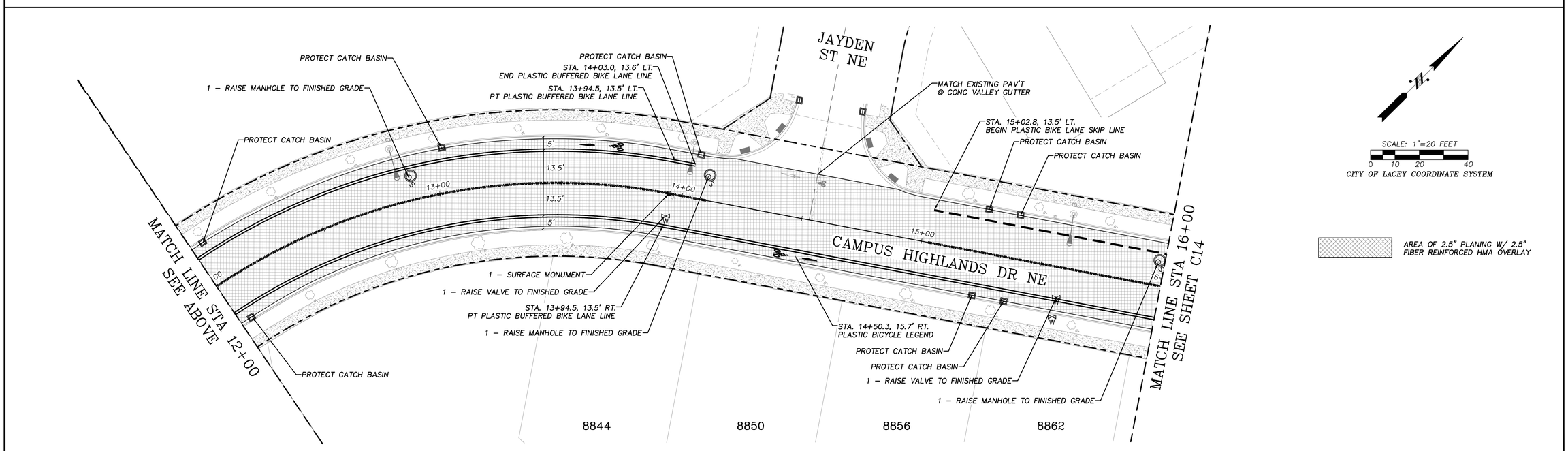
NO.	DATE	DESCRIPTION

PAGE NO. C12

DWG NO. D-22-20

SHEET NO. 17 OF 28





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	CAMPUSHIGHLANDS.DWG

2022 OVERLAY

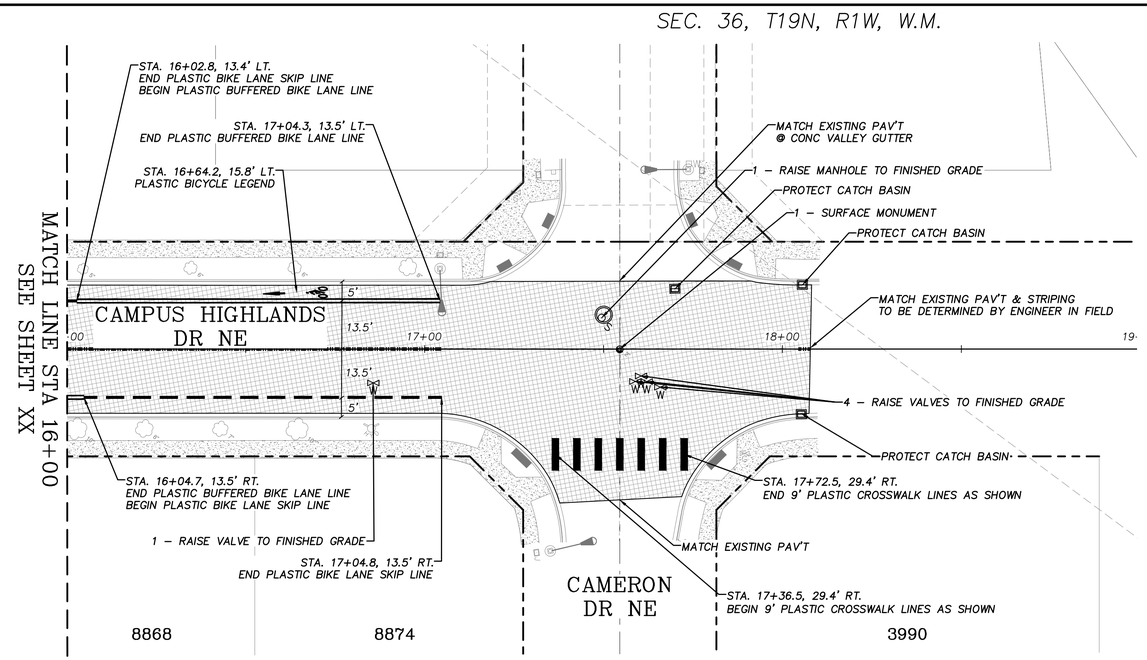
CAMPUS HIGHLANDS DR

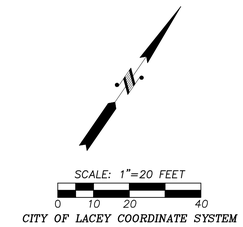
STA 8+00 TO STA 16+00

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C13	18
DWG NO.	OF
D-22-20	28





AREA OF 2.5" PLANING W/ 2.5" FIBER REINFORCED HMA OVERLAY

CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	CAMPUSHIGHLANDS.DWG

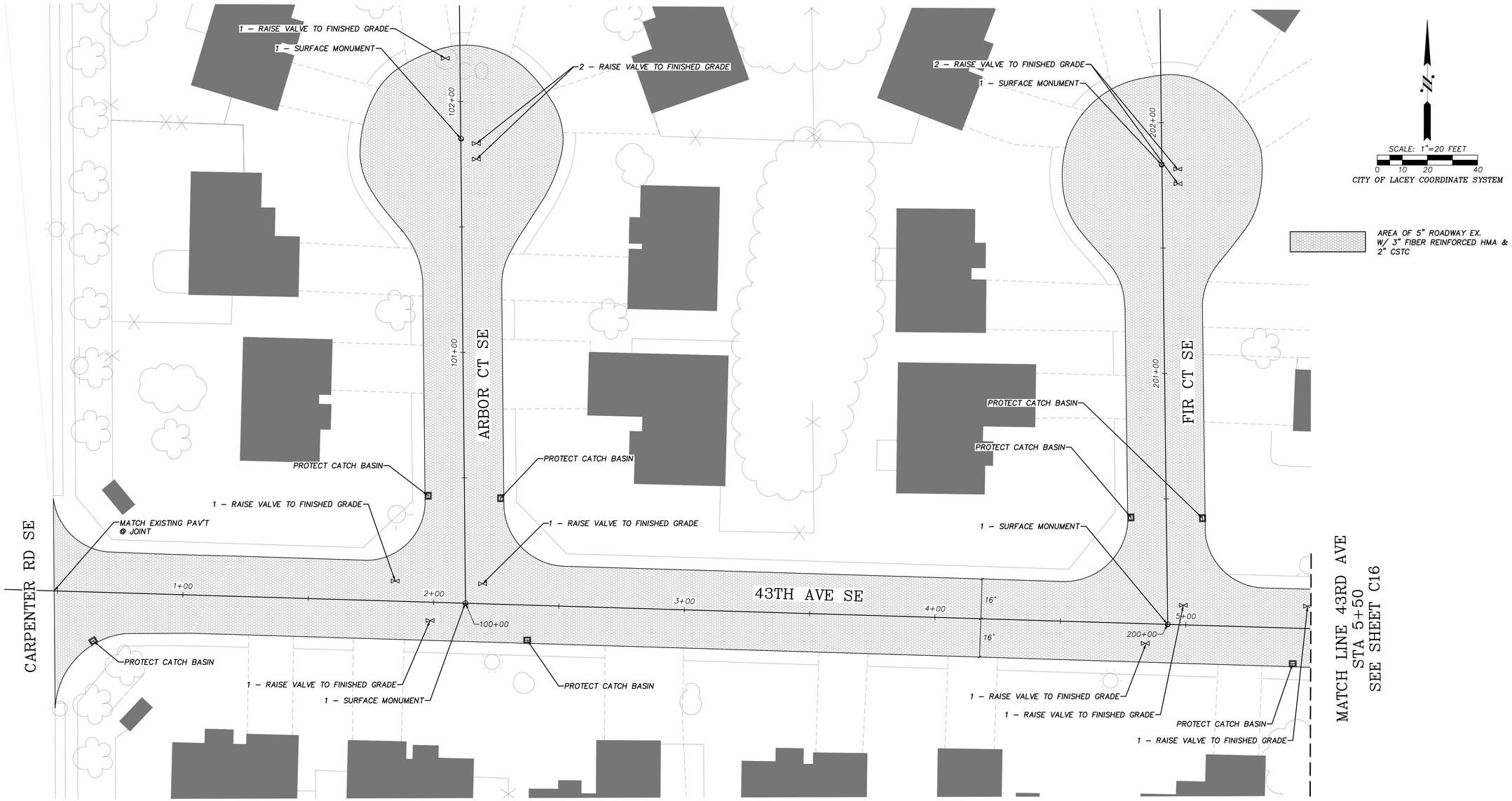
2022 OVERLAY
CAMPUS HIGHLANDS DR
STA 16+00 TO STA 19+00

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO. C14
DWG NO. D-22-20
SHEET NO. 19 OF 28

SEC. 35, T18N, R1W, W.M.



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	ARBORS.DWG

2022 OVERLAY
THE ARBORS
43RD AVE – ARBOR CT – FIR CT

REVISION BLOCK

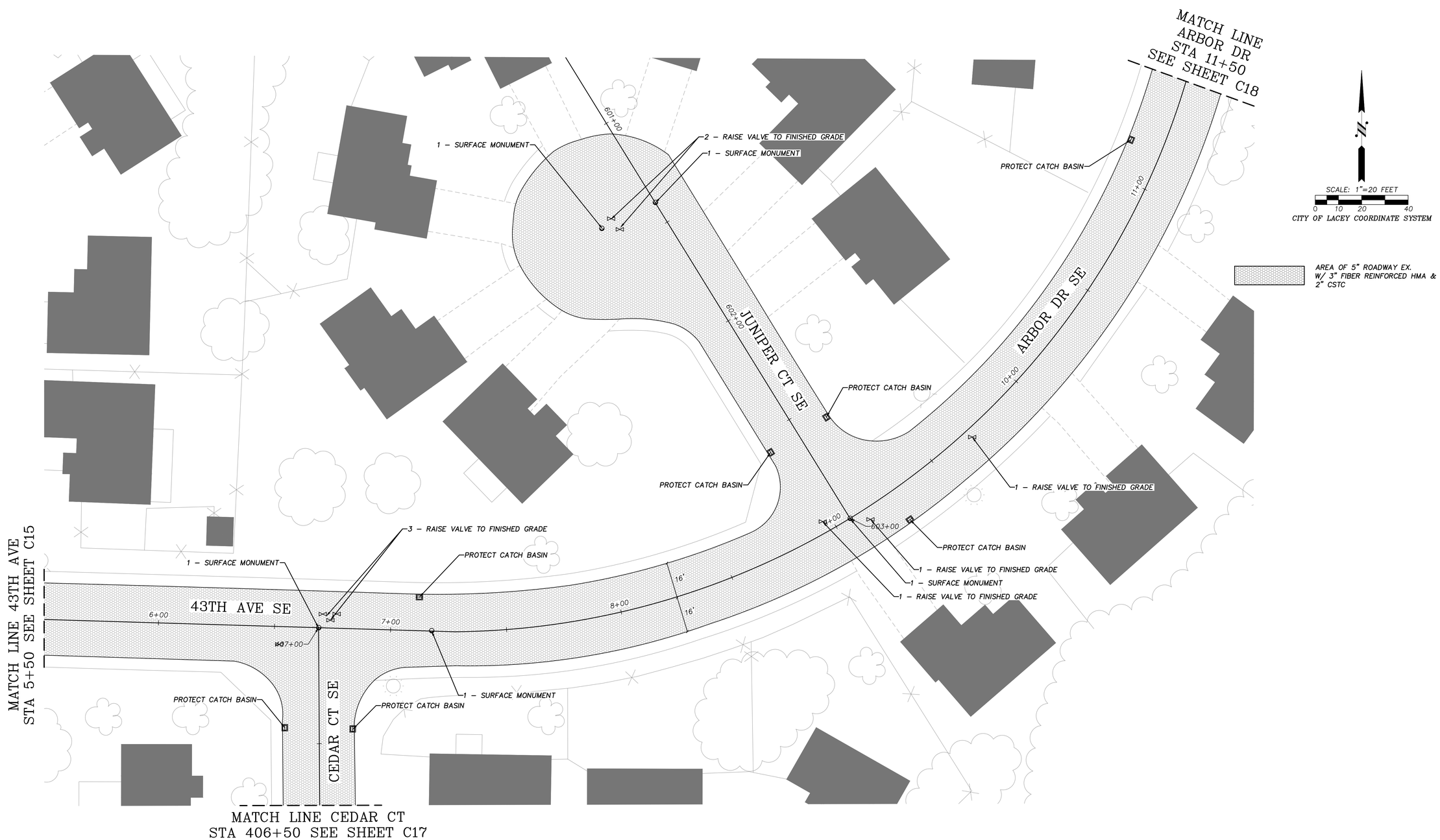
NO.	DATE	DESCRIPTION

PAGE NO. C15

DWG NO. D-22-20

SHEET NO. 20 OF 28

SEC. 35, T18N, R1W, W.M.



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	ARBORS.DWG

2022 OVERLAY

THE ARBORS

43RD AVE – ARBOR DR – JUNIPER CT

REVISION BLOCK

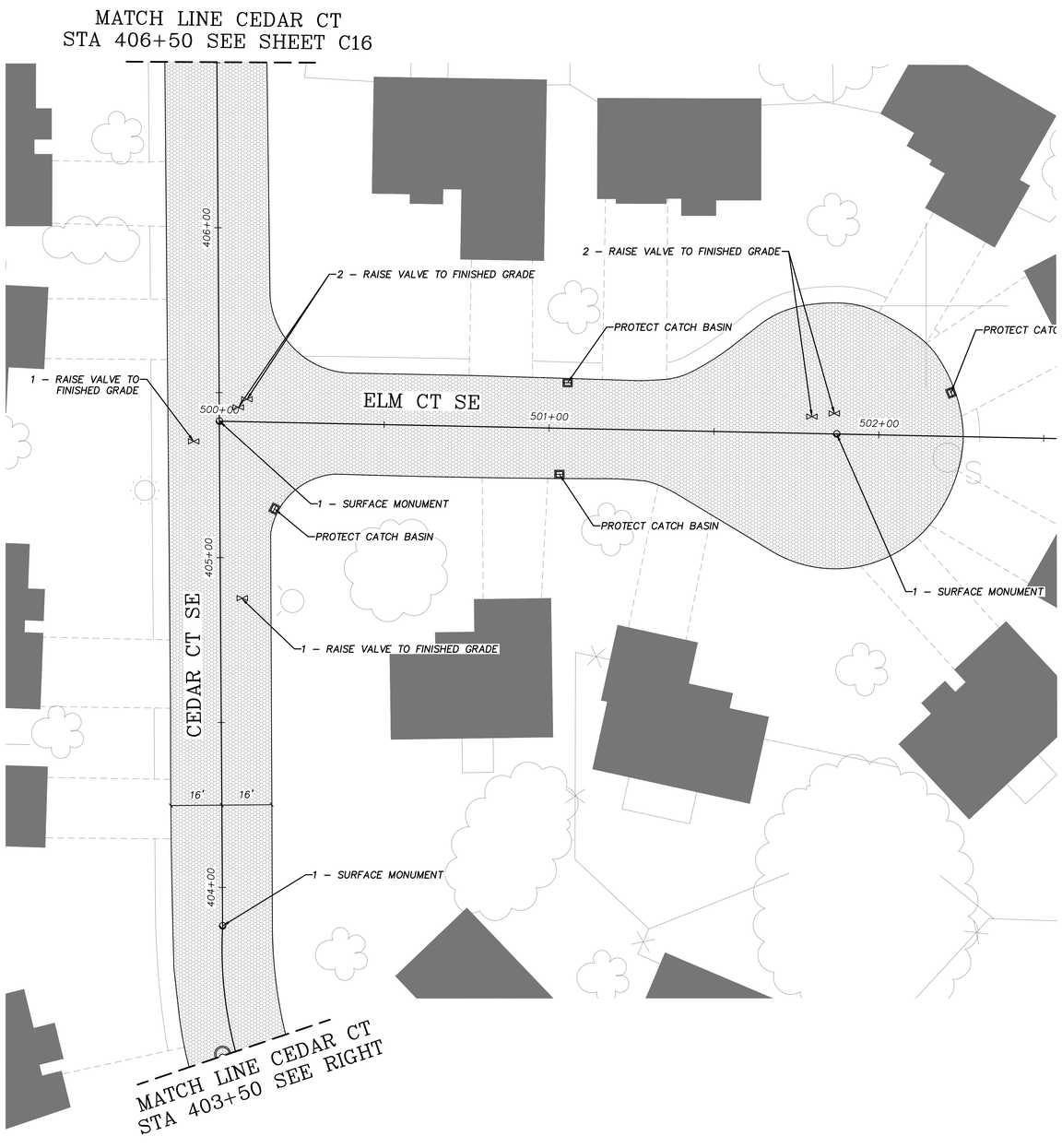
NO.	DATE	DESCRIPTION

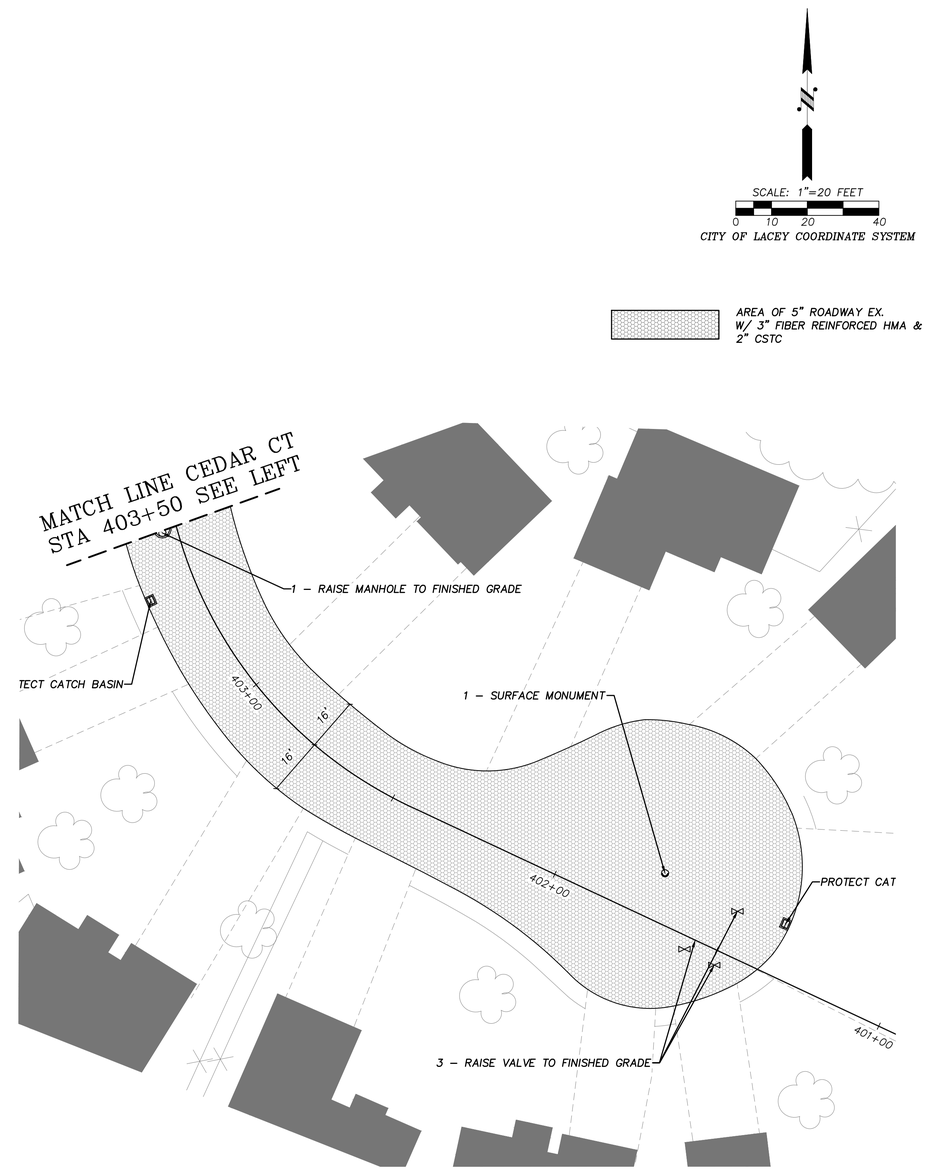
PAGE NO. C16

DWG NO. D-22-20

SHEET NO. 21 OF 28

SEC. 35, T18N, R1W, W.M.





CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600
LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	ARBORS.DWG

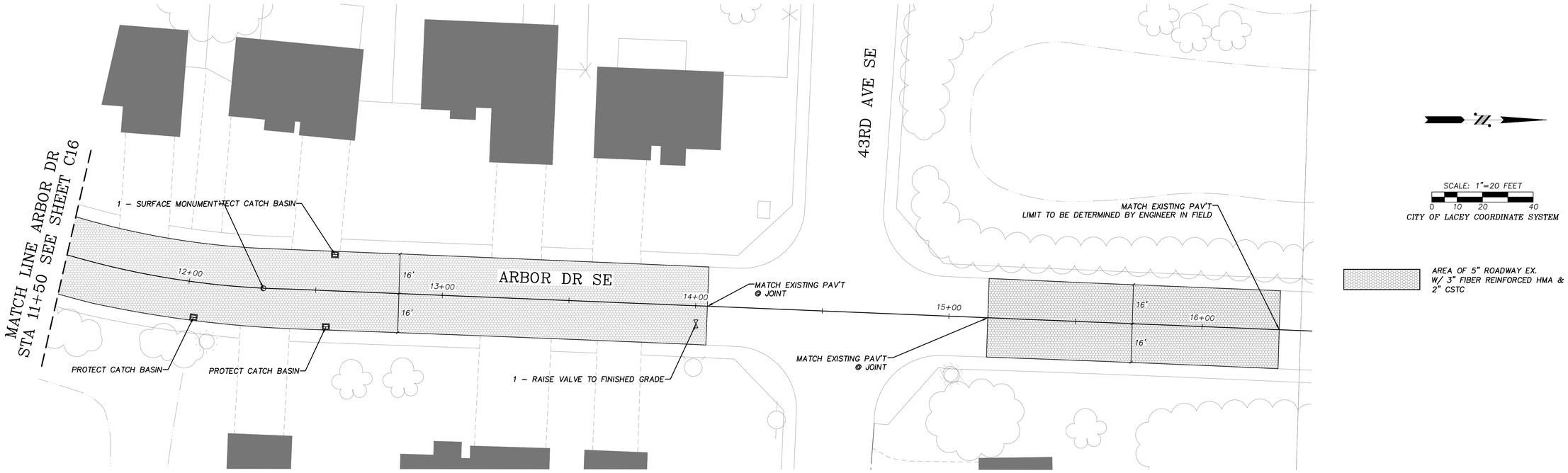
2022 OVERLAY
THE ARBORS
CEDAR CT – ELM CT

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C17	22
DWG NO.	OF
D-22-20	28

SEC. 35, T18N, R1W, W.M.



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600

LACEY

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	ARBORS.DWG

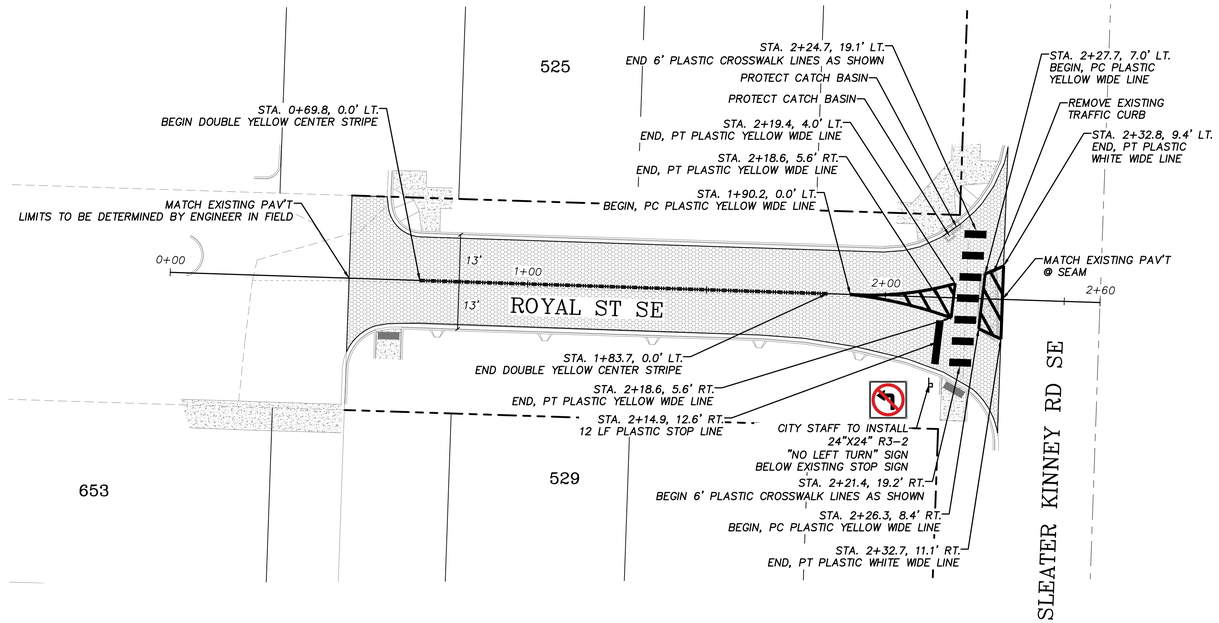
2022 OVERLAY
THE ARBORS
ARBOR DR

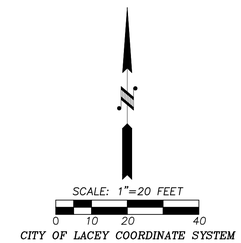
REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO. C18
DWG NO. D-22-20
SHEET NO. 23 OF 28

SEC. 17, T18N, R1W, W.M.





AREA OF 5" ROADWAY EX.
W/ 3" FIBER REINFORCED HMA &
2" CSTC

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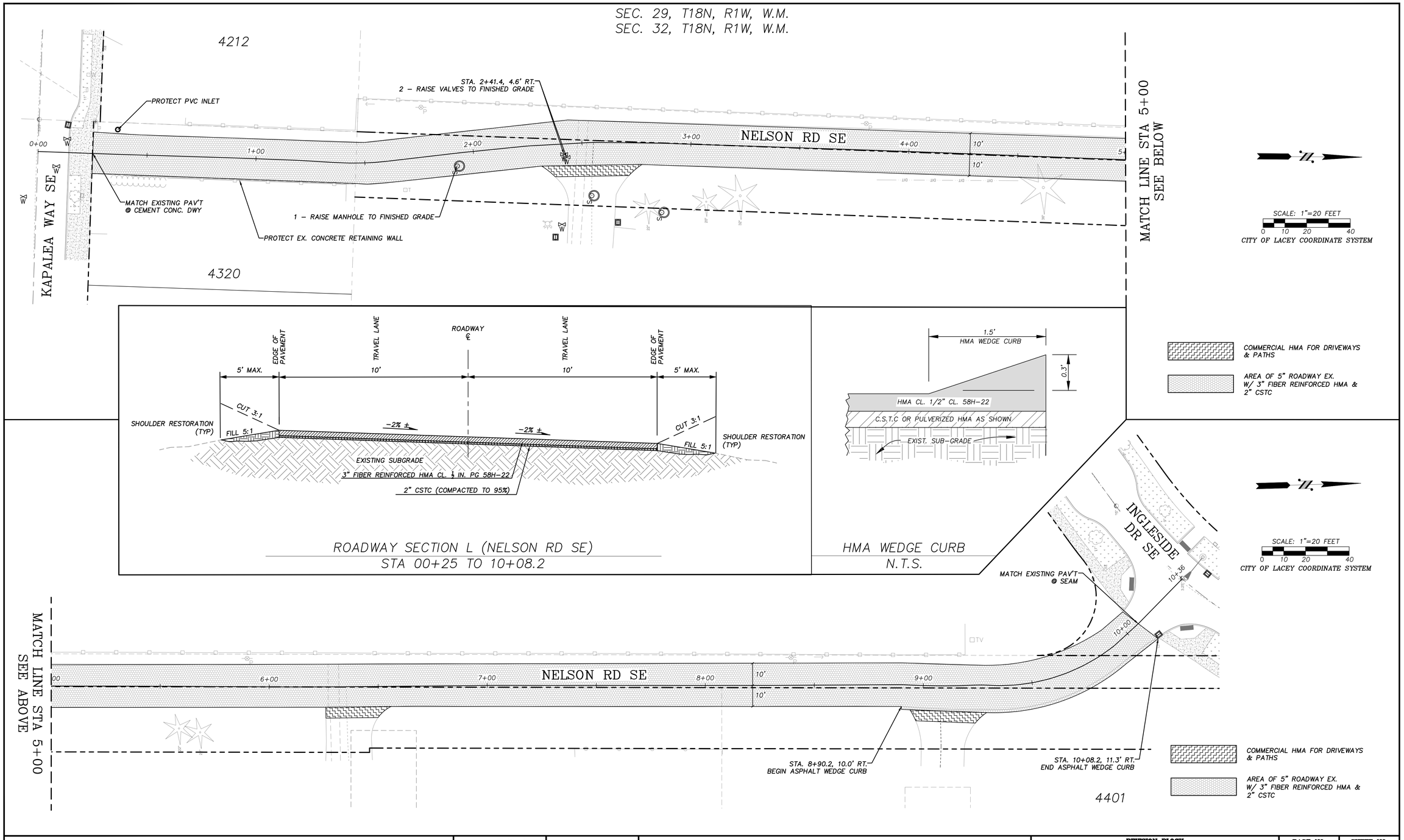
VERT. SCALE:	1"=5'
FILE:	ROYAL.DWG

2022 OVERLAY
ROYAL ST
STA 0+00 TO STA 2+60

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO. C19
DWG NO. D-22-20
SHEET NO. 24 OF 28



CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET SE
LACEY, WA 98503–1238 (360) 491–5600

LACEY

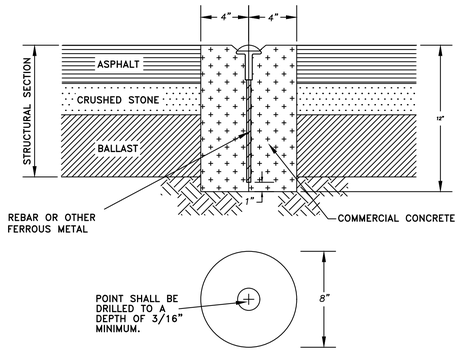
DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	NELSON.DWG

2022 OVERLAY
NELSON RD
STA 0+00 TO STA 10+36

REVISION BLOCK

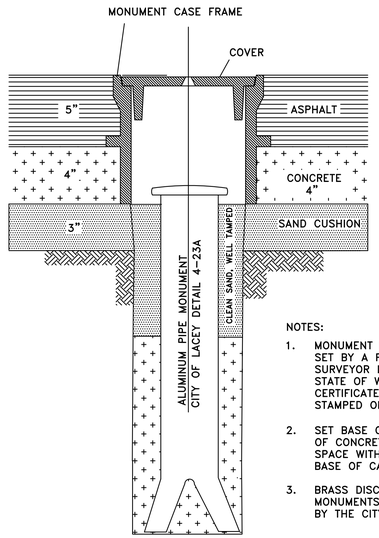
NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C20	25
DWG NO.	OF
D–22–20	28



GENERAL NOTES:
1. THIS MONUMENT TO BE USED PRIMARILY ON BITUMINOUS OR ASPHALT CONCRETE PAVEMENT FOR USE PRIMARILY IN SUBDIVISIONS AND MINOR ARTERIALS.
2. CONCRETE BASE SHALL BE 8" IN DIAMETER AND CORE DRILLED. CONCRETE BASE NEED NOT BE FORMED.
3. CAP SHALL BE BRASS, ALUMINUM OR OTHER NON-FERROUS METAL, MINIMUM 2-1/2" DIAMETER
4. CONCRETE TO BE PLACED ON A FIRM AND UNYIELDING FOUNDATION.
5. MONUMENT POSITION SHALL BE SET BY A PROFESSIONAL LAND SURVEYOR LICENSED BY THE STATE OF WASHINGTON WHOSE CERTIFICATE NUMBER SHALL BE STAMPED ON CAP.
6. SUFFICIENT FERROUS METAL SHALL BE PLACED IN CONCRETE TO ALLOW DETECTION BY A METAL DETECTOR.
7. BRASS DISCS TO BE SUPPLIED BY CITY.

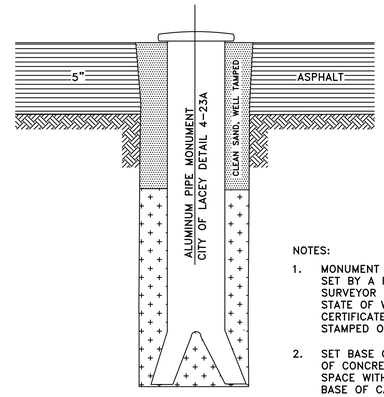
SURFACE MONUMENT
N.T.S.



FLARE BOTTOM 3" OF PIPE PRIOR TO INSTALLATION

NOTES:
1. MONUMENT POSITION SHALL BE SET BY A PROFESSIONAL LAND SURVEYOR LICENSED BY THE STATE OF WASHINGTON WHOSE CERTIFICATE NUMBER SHALL BE STAMPED ON THE CAP.
2. SET BASE OF MONUMENT IN 18" OF CONCRETE, FILL REMAINING SPACE WITH TAMPED SAND TO BASE OF CASE FRAME.
3. BRASS DISCS AND PIPE MONUMENTS TO BE SUPPLIED BY THE CITY.

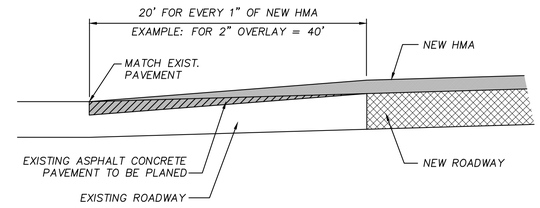
MONUMENT WITH CASE AND COVER
N.T.S.



FLARE BOTTOM 3" OF PIPE PRIOR TO INSTALLATION

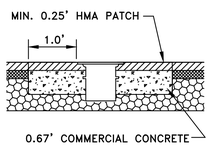
NOTES:
1. MONUMENT POSITION SHALL BE SET BY A PROFESSIONAL LAND SURVEYOR LICENSED BY THE STATE OF WASHINGTON WHOSE CERTIFICATE NUMBER SHALL BE STAMPED ON THE CAP.
2. SET BASE OF MONUMENT IN 18" OF CONCRETE, FILL REMAINING SPACE WITH TAMPED SAND TO BASE OF CASE FRAME.
3. BRASS DISCS AND PIPE MONUMENTS TO BE SUPPLIED BY THE CITY.

PIPE MONUMENT
N.T.S.



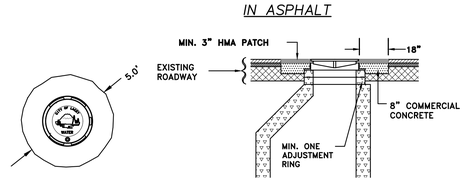
BUTT JOINT @ EXISTING PAVEMENT
N.T.S.

RAISE VALVE BOX TO GRADE



RAISE MANHOLE TO GRADE

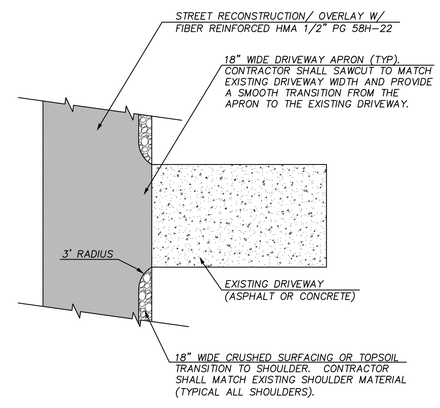
IN ASPHALT



GENERAL NOTES:
1. ON MANHOLES OUTSIDE OF THE ASPHALT ADD REINFORCING STEEL AS SHOWN ABOVE, DEFORMED BAR TO MEET ASTM A615 GRADE 60 FY=60,000 P.S.I.
2. ALL WATER MANHOLE LIDS SHALL BE EAST JORDAN IRON WORKS OR OLYMPIC FOUNDARY WSDOT STYLE #MH-41 CITY OF LACEY LOGO LIDS.
3. ALL LIDS SHALL BE DUCTILE IRON AND MANUFACTURED IN THE USA.

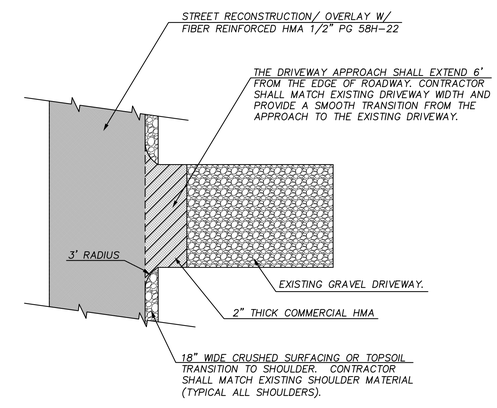
IRON ADJUSTMENTS AND MANHOLE LOGO LIDS
N.T.S.

NOTE: THE CONTRACTOR SHALL PREPARE DRIVEWAY TRANSITIONS FOR HMA PRIOR TO PLACEMENT.
* DRIVEWAY APRONS WILL NOT BE REQUIRED IN AREAS WHERE WEDGE CURB PREVIOUSLY EXISTS, AND IS TO REMAIN IN PLACE.



DRIVEWAY APRON & SHOULDER DETAIL FOR PAVED DRIVEWAYS
N.T.S.

NOTE: THE CONTRACTOR SHALL PREPARE DRIVEWAY TRANSITIONS FOR HMA PRIOR TO PLACEMENT.
* DRIVEWAY APRONS WILL NOT BE REQUIRED IN AREAS WHERE WEDGE CURB PREVIOUSLY EXISTS, AND IS TO REMAIN IN PLACE.



DRIVEWAY APPROACH & SHOULDER DETAIL FOR GRAVEL DRIVEWAYS
N.T.S.

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CHECKED:	JK
HORZ. SCALE:	N.T.S.
VERT. SCALE:	N/A
FILE:	D73

2022 OVERLAY
CONSTRUCTION DETAILS

REVISION BLOCK

NO.	DATE	DESCRIPTION

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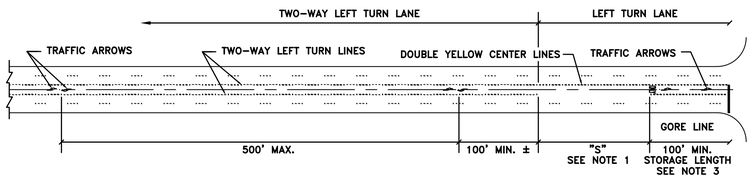
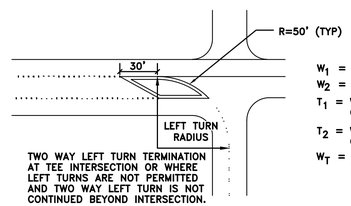


TWO-WAY LEFT TURN LANE

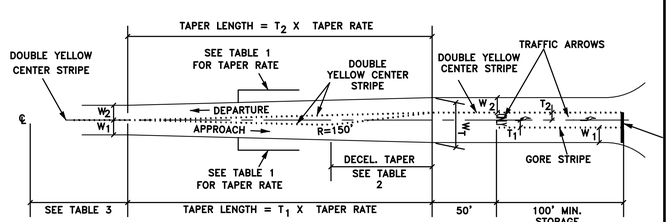


W_1 = APPROACHING THROUGH LANE
W_2 = DEPARTING LANE
T_1 = WIDTH OF LEFT TURN LANE ON APPROACH SIDE OF ℄
T_2 = WIDTH OF LEFT TURN LANE ON DEPARTURE SIDE OF ℄
W_T = TOTAL WIDTH OF CHANNELIZATION ($W_1+W_2+T_1+T_2$)

TABLE 1	
POSTED SPEED	TAPER RATE
55 MPH	55:1
50 MPH	50:1
45 MPH	45:1
40 MPH	40:1
35 MPH	35:1
30 MPH	30:1
25 MPH	25:1

TABLE 2	
POSTED SPEED	DECEL. TAPER LENGTH
55 MPH	165'
50 MPH	150'
45 MPH	135'
40 MPH	120'
35 MPH	105'
30 MPH	90'
25 MPH	75'

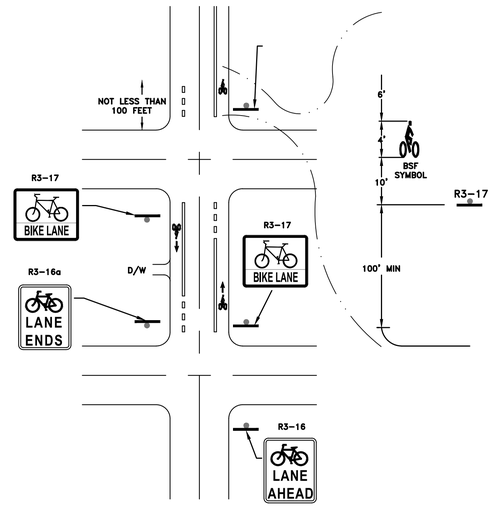
END TWO-WAY LEFT TURN LANE



LEFT TURN LANE

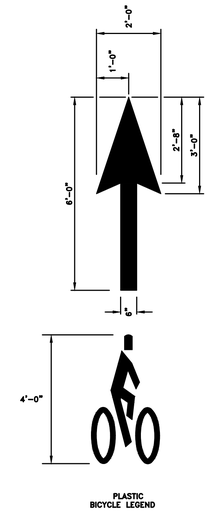
NOTES:
1. "S" = 80' FOR POSTED SPEED ≤ 30 M.P.H.
   "S" = 120' FOR POSTED SPEED 35–50 M.P.H.
   "S" = 170' FOR POSTED SPEED > 50 M.P.H.
2. SEE DETAIL 4–28.1 FOR STRIPING SPECIFICATIONS.
3. USE DESIGN LENGTH DETERMINED BY THE T.I.A.

LEFT TURN LANE PAVEMENT MARKINGS



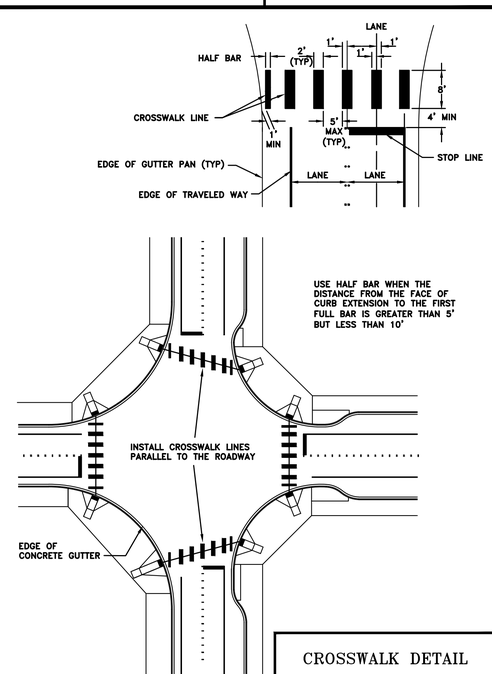
GENERAL NOTES:
1. BIKE LANE SIGNS R3-17 SHALL BE PLACED AT FAR SIDE OF THE INTERSECTION.
2. THE SPACING FOR THE R3-17 SIGNS SHALL BE 800 FEET MAXIMUM.

BIKE LANE SIGNING AT INTERSECTIONS

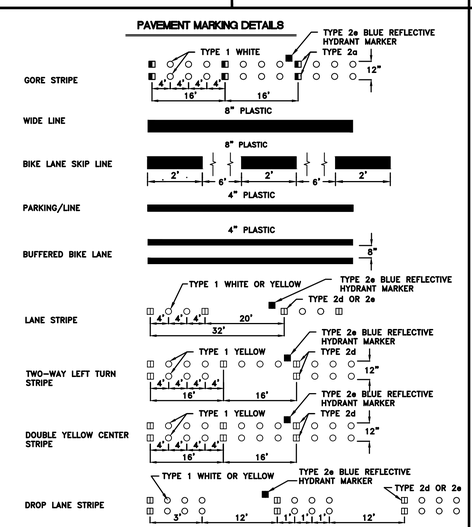


GENERAL NOTES:
1. THE MATERIALS USED FOR ALL STOP LINES, CROSSWALKS, ARROWS, PARKING DELINEATION LINES, LETTERS, LEGENDS, AND SYMBOLS SHALL BE PREMARK OR HOT TAPE PREFORMED THERMOPLASTIC 125 MIL THICKNESS.
2. THE PLASTIC MATERIAL USED TO FORM ALL LONG LINE PAVEMENT MARKINGS SHALL BE PAVE-MARK OR NORLINE THERMOPLASTIC.
3. ALL MARKINGS SHALL MEET FEDERAL METRIC STANDARDS.

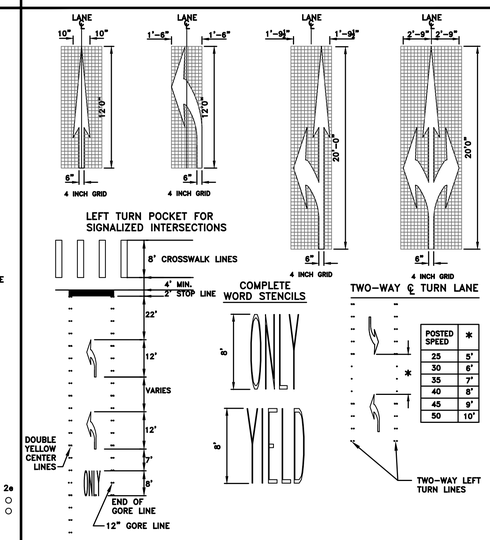
BICYCLE LANE PAVEMENT MARKINGS



CROSSWALK DETAIL



STRIPING DETAIL



POSTED SPEED	*
25	5'
30	6'
35	7'
40	8'
45	9'
50	10'

GENERAL NOTES:
1. THE MATERIALS USED FOR ALL STOP LINES, CROSSWALKS, ARROWS, PARKING DELINEATION LINES, LETTERS, LEGENDS, AND SYMBOLS SHALL BE PREMARK OR HOT TAPE PREFORMED THERMOPLASTIC 125 MIL THICKNESS.
2. THE PLASTIC MATERIAL USED TO FORM ALL LONG LINE PAVEMENT MARKINGS SHALL BE PAVE-MARK OR NORLINE THERMOPLASTIC, HYDROCARBON FORMULATION 125 MIL THICKNESS MARKING MATERIAL.
3. ALL MARKINGS SHALL MEET FEDERAL METRIC STANDARDS.

PAVEMENT MARKINGS

CITY OF LACEY, WASHINGTON
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420 COLLEGE STREET S.E.
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LACEY

MARTIN KAMPS OF WASHINGTON 44698 REGISTERED PROFESSIONAL ENGINEER 5/31/2022

DESIGNED:	BP
DRAFTED:	BP
CHECKED:	JK
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
FILE:	DT1

2022 OVERLAY
CONSTRUCTION DETAILS

REVISION BLOCK		
NO.	DATE	DESCRIPTION

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DT2	27 OF 28
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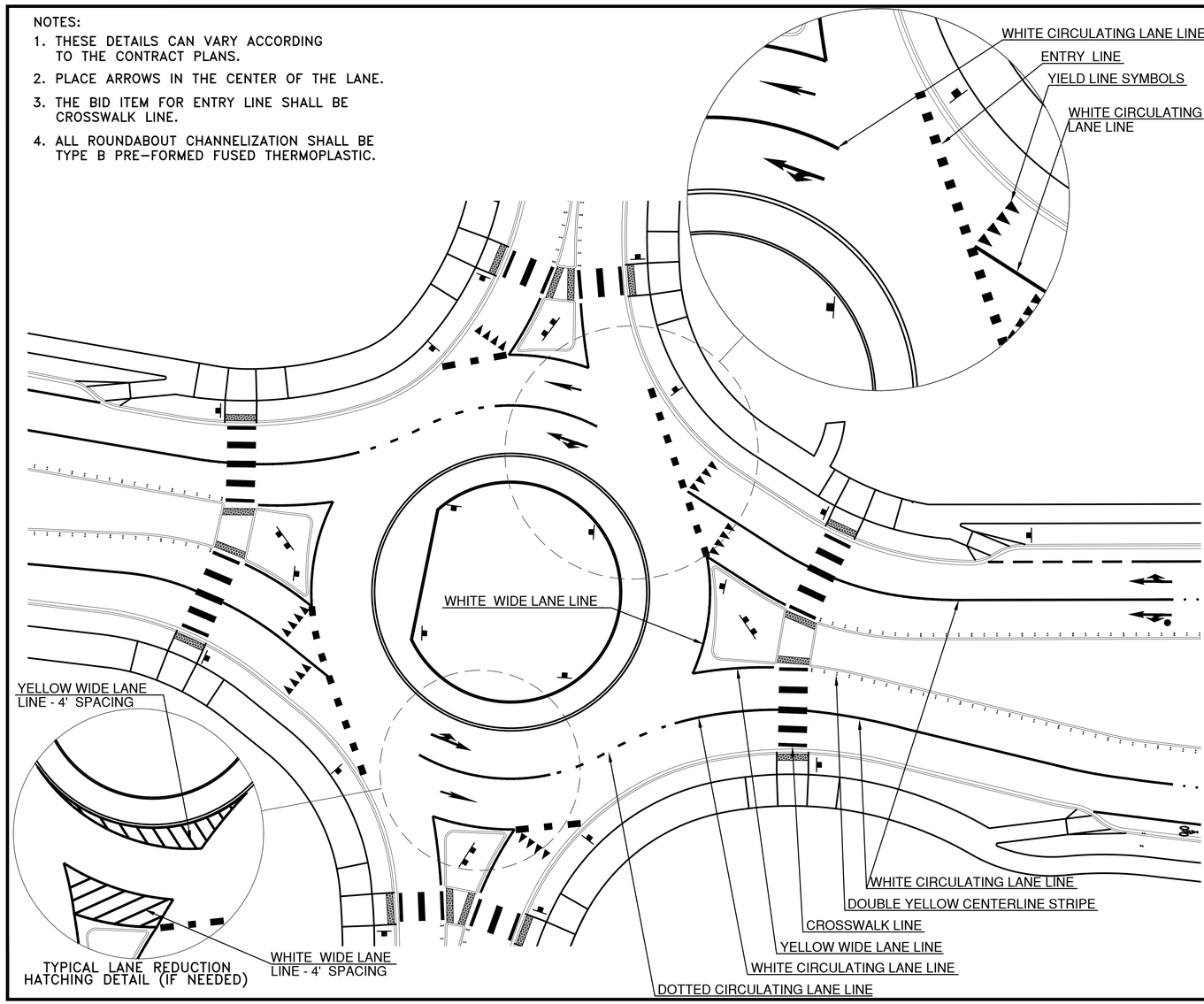
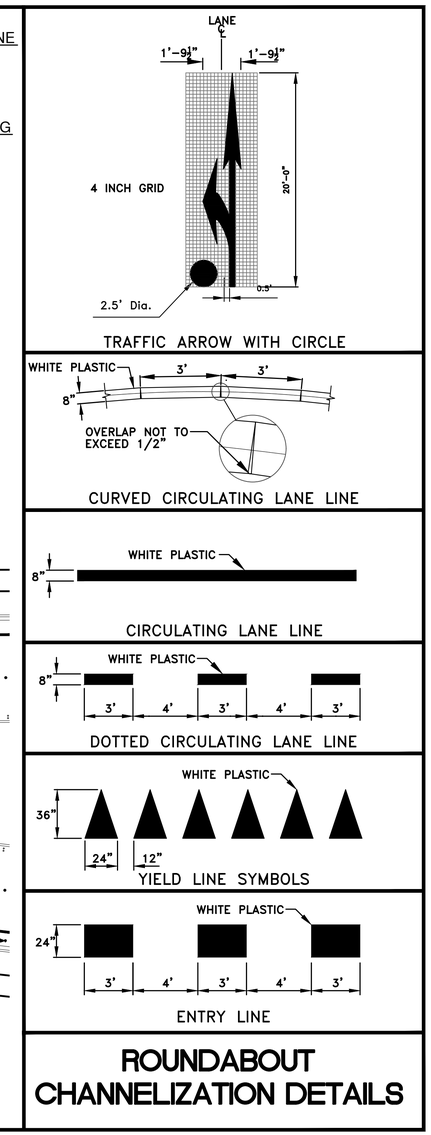
NOTES:

1. THESE DETAILS CAN VARY ACCORDING TO THE CONTRACT PLANS.
2. PLACE ARROWS IN THE CENTER OF THE LANE.
3. THE BID ITEM FOR ENTRY LINE SHALL BE CROSSWALK LINE.
4. ALL ROUNDABOUT CHANNELIZATION SHALL BE TYPE B PRE-FORMED FUSED THERMOPLASTIC.





ROUNDABOUT CHANNELIZATION DETAILS

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VERT. SCALE:	N/A
FILE:	DT1

2022 OVERLAY
CONSTRUCTION DETAILS

REVISION BLOCK

NO.	DATE	DESCRIPTION

PAGE NO. DT3
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