Know what's **below.**
**Call** before you dig.

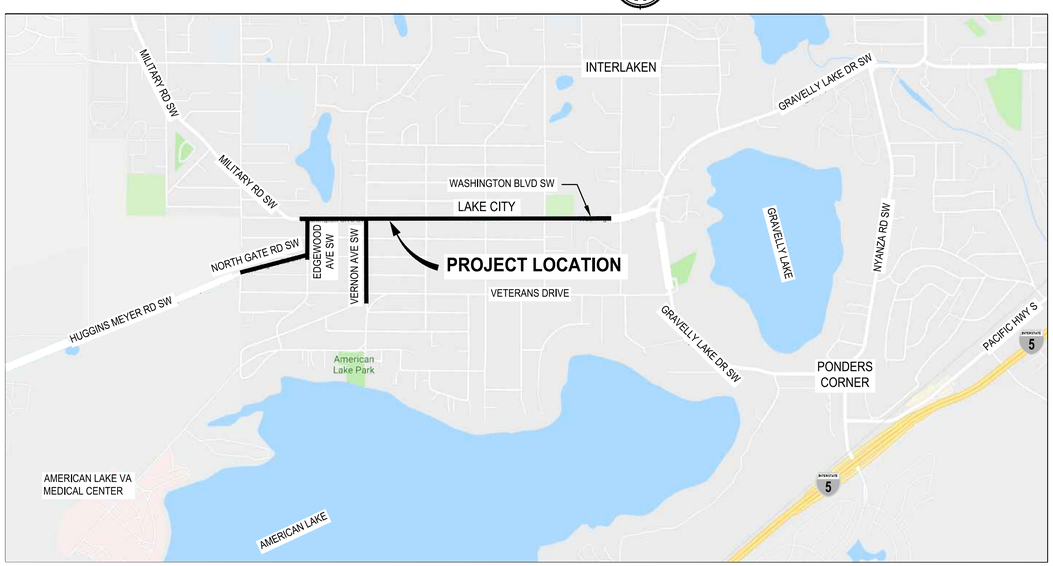
## DOCUMENTS FOR:

# JBLM - NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2

City of Lakewood, Washington

6000 Main Street SW, Lakewood, WA 98499

**VICINITY MAP**




APPROVED FOR CONSTRUCTION

CITY OF LAKEWOOD, WA •1996•

PAUL A. BUCICH, P.E.
PUBLIC WORKS ENGINEERING DIRECTOR

DATE

| ROADWAY DRAWING INDEX | | |
|---|---|---|
| **DRAWING NUMBERS** | **SHEET NUMBERS** | **PLAN SET** |
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| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED K. TAYLOR
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-GN01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD, WA •1996•

DMITRI VICTOROVICH SISKIN — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

**COVER SHEET, VICINITY MAP, AND DRAWING INDEX**

DRAWING NO.
1 OF 169
**GN1**


PATH: U:\PSG\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: GN1
PLOTTED BY: toylokot
DATE: Friday, January 28, 2022 1:15:20 PM

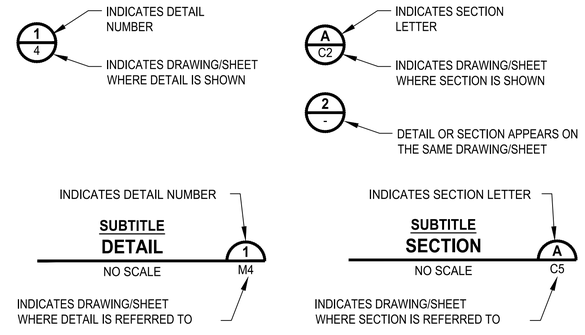
## ABBREVIATIONS

| | | | |
|---|---|---|---|
| @ | AT | LT | LEFT |
| ADDL | ADDITIONAL | LTG | LIGHTING |
| ADJ | ADJUSTABLE | MAN | MANUAL |
| AGG | AGGREGATE | MATL | MATERIAL |
| ALLOW | ALLOWANCE, ALLOWABLE | MC | MIDDLE OF CURVE |
| AMT | AMOUNT | MEF | MAXIMUM EXTENT FEASIBLE |
| ANG | ANGLE | MH | MANHOLE |
| AP | ANGLE POINT | MIN | MINIMUM, MINUTE |
| APPD | APPROVED | MISC | MISCELLANEOUS |
| APPROX | APPROXIMATE | MON | MONUMENT |
| APWA | AMERICAN PUBLIC WORKS ASSOCIATION | MPH | MILES PER HOUR |
| ASPH | ASPHALT | MW | MONITORING WELL |
| ASSY | ASSEMBLY | N | NORTH, NORTHING |
| AVE | AVENUE | NIC | NOT IN CONTRACT |
| AVG | AVERAGE | NO. | NUMBER |
| BC | BEGINNING OF CURVE | NTS | NOT TO SCALE |
| BLDG | BUILDING | PC | POINT OF CURVATURE |
| BLVD | BOULEVARD | PCC | PORTLAND CEMENT CONCRETE |
| BM | BENCH MARK | PG | PERFORMANCE GRADE |
| BOT | BOTTOM | PH | PHASE, POTHOLE |
| BRG | BEARING | PI | POINT OF INTERSECTION |
| BVC | BEGIN VERTICAL CURVE | PIVC | POINT OF INTERSECTION FOR VERTICAL CURVE |
| CALC | CALCULATION | PP | POWER POLE |
| CAP | CAPACITY | PT | POINT OF TANGENCY, POINT |
| CB | CATCH BASIN | PVI | POINT OF VERTICAL INTERSECTION |
| CEM | CEMENT | PVT | PAVEMENT, PAVING, PRIVATE |
| CL | CLASS | PWR | POWER |
| CND | CONDUIT | QTY | QUANTITY |
| CO | CLEANOUT | RAD | RADIUS |
| COL | CITY OF LAKEWOOD | RD | ROAD |
| CONC | CONCRETE | REF | REFERENCE |
| CONN | CONNECT, CONNECTION | REQD | REQUIRED |
| CONST | CONSTRUCT, CONSTRUCTION | RET | RETAINING, RETURN |
| CONT | CONTINUE, CONTINUOUS | REV | REVERSE, REVISED |
| CONTR | CONTRACTOR | ROW | RIGHT OF WAY |
| COORD | COORDINATE | RPM | RAISED PAVEMENT MARKER |
| CSBC | CRUSHED SURFACING BASE COURSE | RT | RIGHT |
| CSTC | CRUSHED SURFACING TOP COURSE | S | SOUTH, SLOPE |
| CTR | CENTER | SCH | SCHEDULE |
| CUFT | CUBIC FOOT, CUBIC FEET | SD | STORM DRAIN |
| CULV | CULVERT | SDMH | STORM DRAIN MANHOLE |
| CY | CUBIC YARD | SECT | SECTION |
| D | DRAIN, DRAINAGE | SEG | SEGMENT |
| DBL | DOUBLE | SERV | SERVICE |
| DEG | DEGREE | SIG | SIGNAL |
| DEMO | DEMOLITION | SPEC | SPECIFICATION |
| DEPT | DEPARTMENT | SQFT | SQUARE FOOT, SQUARE FEET |
| DET | DETAIL | SQIN | SQUARE INCH, SQUARE INCHES |
| DIA | DIAMETER | SQYD | SQUARE YARD, SQUARE YARDS |
| DIM | DIMENSION | SS | SANITARY SEWER |
| DIST | DISTANCE, DISTRICT | SSMH | SANITARY SEWER MANHOLE |
| DWG | DRAWING | ST | STREET |
| E | EAST, EASTING | STA | STATION |
| EA | EACH | STD | STANDARD |
| EC | END OF CURVE | SURV | SURVEY |
| EL | ELEVATION | SYS | SYSTEM |
| EOP | EDGE OF PAVEMENT | T | TELEPHONE |
| EQUIP | EQUIPMENT | TAN | TANGENT |
| ES | EDGE OF SIDEWALK | TEMP | TEMPORARY |
| EVC | END VERTICAL CURVE | TESC | TEMPORARY EROSION AND SEDIMENT CONTROL |
| EXIST | EXISTING | THRU | THROUGH |
| FG | FINISH GRADE | TOB | TOP OF BANK |
| FH | FIRE HYDRANT | TOC, TC | TOP OF CONCRETE, TOP OF CURB |
| FL | FLOW LINE | TOW | TOP OF WALL |
| FM | FORCE MAIN | TYP | TYPICAL |
| G | GAS | UG | UNDERGROUND |
| GB | GRADE BREAK | VAR | VARIES, VARIABLE |
| HMA | HOT MIX ASPHALT | VERT | VERTICAL |
| HORIZ | HORIZONTAL | W | WATER, WEST, WITH |
| IE | INVERT ELEVATION | WM | WATER METER |
| IN | INCH | WSDOT | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION |
| INCL | INCLUDE, INCLUDING | | |
| INV | INVERT | YD | YARD |
| JB | JUNCTION BOX | YR | YEAR |
| LF | LINEAR FEET, LINEAR FOOT | | |
| L | LENGTH, LONG | | |
| LIN | LINEAR | | |

## LEGEND

| | EXISTING | PROPOSED |
|---|---|---|
| RIGHT OF WAY | | |
| PARCEL LINES | | |
| FOUND IRON PIPE | | |
| FOUND CASED/SURFACE MONUMENT | | |
| FOUND MAG NAIL | | |
| FOUND REBAR AND CAP | | |
| FOUND STONE MONUMENT | | |
| SET HUB & TACK | | |
| SET MAG NAIL | | |
| SET PK | | |
| SET NAIL | | |
| SET REBAR WITH CAP | | |
| MAJOR CONTOUR | | 250 |
| MINOR CONTOUR | | |
| EDGE OF ASPHALT | | |
| EDGE OF CONCRETE | | |
| EDGE OF GRAVEL | | |
| EDGE OF VEGETATION | | |
| GUARD RAIL | | |
| BUILDING | | |
| ROCKERY | | |
| WOOD FENCE | | |
| CHAIN LINK FENCE | | |
| FENCE | | |
| UNDERGROUND CABLE TV | TV | |
| UNDERGROUND COMMUNICATION | T | |
| UNDERGROUND FIBER OPTIC | FO FO | |
| UNDERGROUND POWER | P | |
| OVERHEAD POWER | OP | |
| GAS | G | |
| STORM | SD | |
| SEWER | SS | |
| WATER | W | |
| CABLE TV RISER | TV | |
| TELEPHONE RISER | TR | |
| TELEPHONE HAND HOLE | T | |
| TELEPHONE MANHOLE | T | |
| TELEPHONE PANEL | T | |
| TELEPHONE VAULT | T | |
| TRAFFIC SIGNAL-WALK POLE | | |
| TRAFFIC SIGNAL CABINET | | |
| TRAFFIC SIGNAL LOOP | TL | |
| TRAFFIC SIGNAL POLE WITH LIGHT | | |
| POWER JUNCTION BOX | P | |
| POWER METER | | |
| POWER MANHOLE | P | |
| POWER PANEL | P | |
| POWER TRANSFORMER | | |
| POWER VAULT | P | |
| POWER POLE W/ LIGHT | | |
| POWER POLE W/ LIGHT, DROP LINE | | |
| POWER POLE W/ LIGHT, DROP LINE, TRANSFORMER | | |
| POWER POLE W/ LIGHT, TRANSFORMER | | |
| POWER POLE W/ DROP LINE | | |
| POWER POLE W/ DROP LINE, TRANSFORMER | | |
| POWER POLE W/ TRANSFORMER | | |
| POWER POLE | | |
| POWER GUY ANCHOR | | |
| GUY POLE | OP | |
| STREET LIGHT | | |
| LIGHT STANDARD | | |
| FLOOD LIGHT | | |
| GAS METER | | |
| GAS VALVE | | |
| CATCH BASIN | | |
| AREA DRAIN | | |
| SOLID CATCH BASIN | | |
| STORM MANHOLE | | |
| SEWER CLEAN-OUT | | |
| SEWER MANHOLE | | |
| SEWER VALVE | | |
| WATER HOSE BIB | | |
| IRRIGATION VALVE | | |
| SPRINKLER HEAD | | |
| FIRE HYDRANT | | |
| WATER METER | | |
| WATER VALVE | W | |
| FLAG POLE | | |
| SIGN | | |
| HANDICAP SYMBOL | | |
| POST | | |
| GATE POST | | |
| WOOD POST | | |
| MAIL BOX | MB | |
| TEST BORING PIT | | |
| STUMP | | |
| SHRUB | | |
| DECIDUOUS TREE | | |
| CONIFER TREE | | |

## DETAIL AND SECTION DESIGNATION

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DESIGNED K. TAYLOR
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-GN01-03
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRI VICTOROVICH SINSHLOV — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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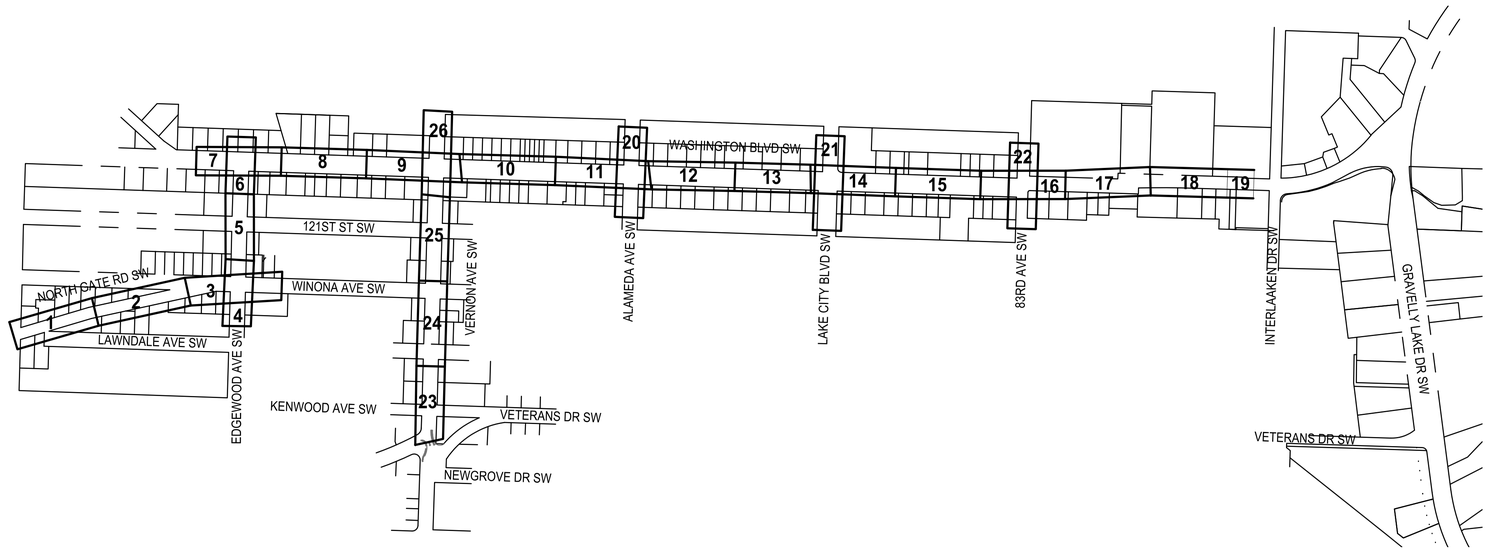
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# PROJECT LEGEND AND ABBREVIATIONS

DRAWING NO. 2 OF 169
**GN2**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, Jonuary 12, 2022 9:59:44 AM
LAYOUT: GN2




**KEY MAP**

SCALE IN FEET

0 400 800

N

## SHEET VIEW INDEX

| VIEW # | SP | PP | SD | CH | LS | IR | EL |
|---|---|---|---|---|---|---|---|
| 1 | SP1 | PP1 | SD1 | CH1 | LS1 | - | EL1 |
| 2 | SP1 | PP2 | SD2 | CH1 | LS1 | - | EL1 |
| 3 | SP2 | PP3 | SD3 | CH2 | LS2 | IR1 | EL2 |
| 4 | SP2 | PP4 | SD4 | CH2 | LS2 | - | EL2 |
| 5 | SP3 | PP5 | SD5 | CH3 | LS3 | - | EL3 |
| 6 | SP4 | PP6 | SD6 | CH3 | LS3 | - | EL3 |
| 7 | SP4 | PP6 | SD7 | CH3, CH4 | LS3, LS4 | IR2 | EL3 |
| 8 | SP4 | PP8 | SD8 | CH4 | LS4 | IR3 | EL4 |
| 9 | SP5 | PP9 | SD9 | CH4, CH5 | LS4, LS5 | IR4 | EL5 |
| 10 | SP6 | PP10 | SD10 | CH6 | LS6 | IR5 | EL6 |
| 11 | SP7 | PP11 | SD11 | CH6, CH7 | LS6, LS7 | IR6 | EL6 |
| 12 | SP8 | PP12 | SD12 | CH8 | LS8 | IR7 | EL8 |
| 13 | SP8 | PP13 | SD13 | CH8, CH9 | LS8 | IR7 | EL8 |
| 14 | SP9 | PP14 | SD14 | CH9, CH10 | LS9, LS10 | IR8 | EL9 |
| 15 | SP10 | PP15 | SD15 | CH10 | LS10 | IR9 | EL10 |
| 16 | SP11 | PP16 | SD16 | CH10, CH11 | LS10, LS11 | IR10 | EL11 |
| 17 | SP12 | PP17 | SD17 | CH12 | LS12 | IR11 | EL12 |
| 18 | SP12 | PP18 | SD18 | CH12 | LS12 | IR11 | EL12 |
| 19 | SP12 | PP19 | - | CH12 | LS12 | IR11 | EL12 |
| 20 | SP7 | PP20 | SD19 | CH7 | LS7 | - | EL7 |
| 21 | SP9 | PP21 | SD20 | CH9 | LS9 | - | EL9 |
| 22 | SP11 | PP22 | SD21 | CH11 | LS11 | - | EL11 |
| 23 | SP13 | PP23 | SD22 | CH13 | LS13 | - | EL13 |
| 24 | SP13 | PP24 | SD23 | CH13 | LS13 | - | EL13 |
| 25 | SP14 | PP25 | SD24 | CH14 | LS14 | - | EL14 |
| 26 | SP5 | PP26 | SD25 | CH5 | LS5 | - | EL5 |

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LAYOUT: GN3

| | REVISIONS | DATE | BY |
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DESIGNED K. TAYLOR
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

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CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSHKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME

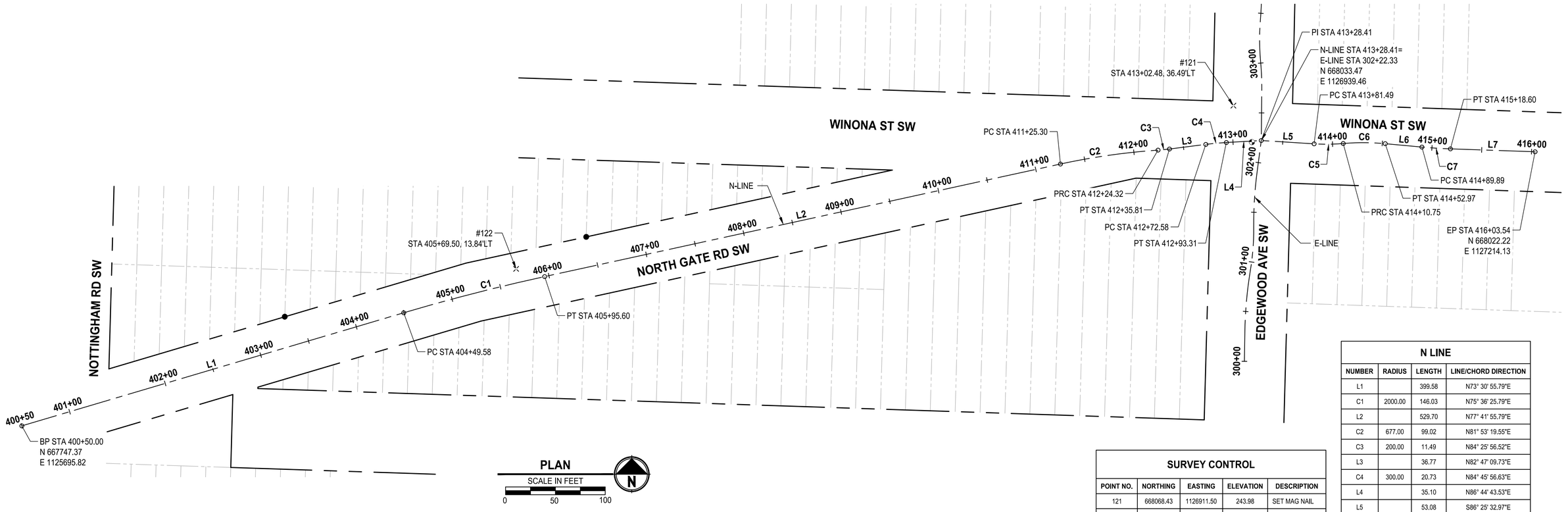
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

LAKEWOOD, WASHINGTON

# SHEET VIEW KEY MAP AND INDEX

DRAWING NO. 3 OF 169

**GN3**




## SURVEY CONTROL

| POINT NO. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| 121 | 668068.43 | 1126911.50 | 243.98 | SET MAG NAIL |
| 122 | 667904.80 | 1126191.79 | 241.60 | SET MAG NAIL |
| 124 | 668699.80 | 1126972.40 | 239.48 | SET MAG NAIL |
| 130 | 668614.84 | 1130024.44 | 261.88 | SET MAG NAIL |
| 400 | 667653.93 | 1127926.88 | 261.54 | SET MAG NAIL |
| 300102 | 666779.00 | 1133284.57 | 271.54 | SET MAG NAIL |
| 300136 | 668728.90 | 1133028.94 | 268.30 | SET MAG NAIL |
| 300143 | 665931.41 | 1134166.16 | 276.12 | SET MAG NAIL |
| 300152 | 665831.31 | 1134705.57 | 260.67 | SET MAG NAIL |
| 300156 | 665576.93 | 1136240.82 | 281.20 | SET MAG NAIL |

## N LINE

| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
|---|---|---|---|
| L1 | | 399.58 | N73° 30' 55.79"E |
| C1 | 2000.00 | 146.03 | N75° 36' 25.79"E |
| L2 | | 529.70 | N77° 41' 55.79"E |
| C2 | 677.00 | 99.02 | N81° 53' 19.55"E |
| C3 | 200.00 | 11.49 | N84° 25' 56.52"E |
| L3 | | 36.77 | N82° 47' 09.73"E |
| C4 | 300.00 | 20.73 | N84° 45' 56.63"E |
| L4 | | 35.10 | N86° 44' 43.53"E |
| L5 | | 53.08 | S86° 25' 32.97"E |
| C5 | 200.00 | 29.26 | N89° 22' 59.24"E |
| C6 | 240.00 | 42.22 | S89° 46' 04.78"E |
| L6 | | 36.91 | S84° 43' 41.00"E |
| C7 | 495.00 | 28.71 | S86° 23' 23.63"E |
| L7 | | 84.94 | S88° 03' 02.96"E |

## E LINE

| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
|---|---|---|---|
| L8 | | 29.20 | N0° 51' 21.41"E |
| C8 | 420.00 | 62.51 | N5° 07' 09.93"E |
| C9 | 250.00 | 43.17 | N4° 26' 10.01"E |
| C10 | 400.00 | 56.75 | N3° 33' 14.07"E |
| L9 | | 30.70 | N7° 37' 06.58"E |
| L10 | | 49.27 | N0° 35' 37.43"E |
| C11 | 300.00 | 30.35 | N2° 18' 16.20"W |
| C12 | 240.00 | 41.39 | N0° 15' 44.12"W |
| C13 | 350.00 | 77.67 | N1° 40' 44.69"W |
| C14 | 500.00 | 80.35 | N3° 25' 58.60"W |
| L11 | | 38.60 | N1° 10' 13.80"E |
| L12 | | 177.17 | N2° 11' 21.22"E |
| C15 | 550.00 | 36.09 | N4° 04' 07.94"E |
| C16 | 215.00 | 30.76 | N1° 51' 01.63"E |
| C17 | 300.00 | 41.52 | N1° 43' 02.01"E |
| L13 | | 41.35 | N5° 40' 55.52"E |
| L14 | | 54.22 | N1° 10' 20.15"W |
| L15 | | 80.35 | N2° 11' 21.20"E |

## LEGEND

- ● SURVEY MONUMENT ALONG RIGHT OF WAY AS SHOWN
- ◕ SURVEY MONUMENT IN ROADWAY AS SHOWN
- ⊗ SET MAG NAIL (AHBL)

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD MAPPING. THIS CONTROL WAS INDICATED TO BE ON NAVD88 BY AHBL AND CONFIRMED BY PERFORMING A CHECK UTILIZING GPS WITHIN THE WSRN (WASHINGTON STATE REFERENCE NETWORK), WHICH IS A REAL TIME NETWORK OF CONTINUOUSLY OPERATING GPS REFERENCE STATIONS.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED K. BECKER
DRAWN K. BECKER
CHECKED J. KEMNITZ
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-HC01-04_09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SIVASTKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
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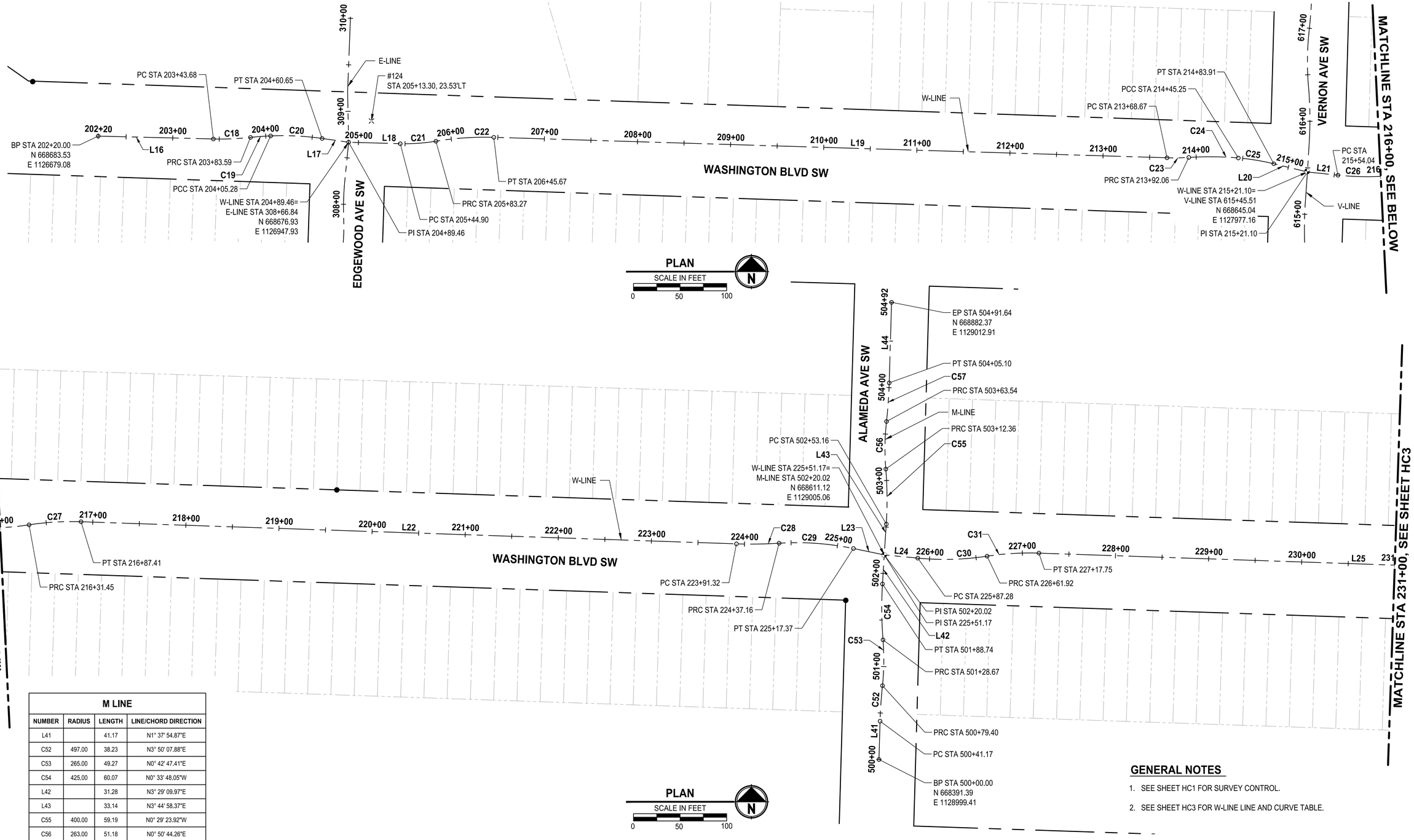
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# HORIZONTAL CONTROL

DRAWING NO. 4 OF 169
HC1


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Sca\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 12, 2022 10:12:01 AM
LAYOUT: HC1




| M LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L41 | | 41.17 | N1° 37' 54.87"E |
| C52 | 497.00 | 38.23 | N3° 50' 07.88"E |
| C53 | 265.00 | 49.27 | N0° 42' 47.41"E |
| C54 | 425.00 | 60.07 | N0° 33' 48.05"W |
| L42 | | 31.28 | N3° 29' 09.97"E |
| L43 | | 33.14 | N3° 44' 58.37"E |
| C55 | 400.00 | 59.19 | N0° 29' 23.92"W |
| C56 | 263.00 | 51.18 | N0° 50' 44.26"E |
| C57 | 500.00 | 41.56 | N4° 02' 22.19"E |
| L44 | | 86.54 | N1° 39' 29.64"E |

## GENERAL NOTES

1. SEE SHEET HC1 FOR SURVEY CONTROL.
2. SEE SHEET HC3 FOR W-LINE LINE AND CURVE TABLE.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED K. BECKER
DRAWN K. BECKER
CHECKED J. KEMNITZ
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-HC01-04_09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SISIKOV STATE OF WASHINGTON 36390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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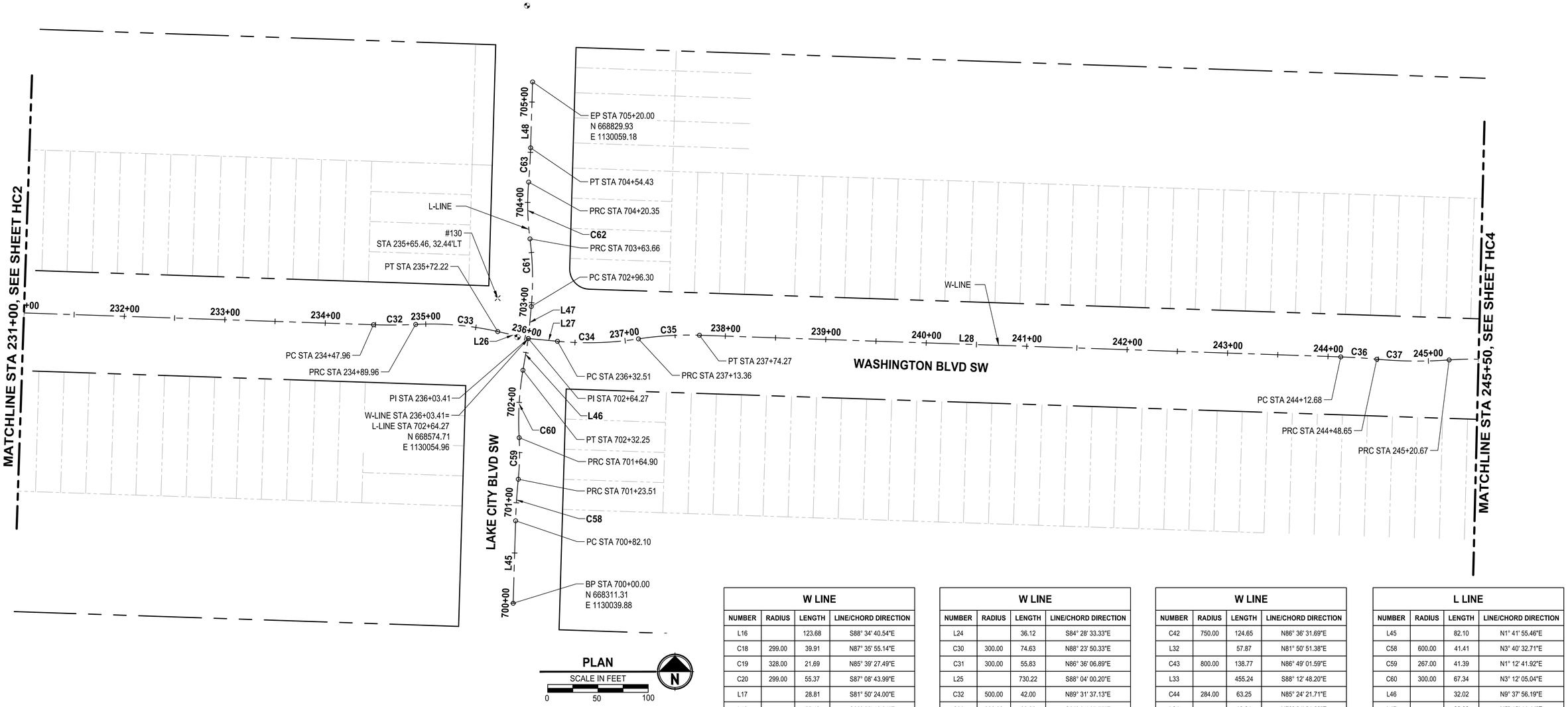
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# HORIZONTAL CONTROL

DRAWING NO.
5 OF 169
HC2


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 10:12:16 AM
LAYOUT: HC2




PLAN

SCALE IN FEET

0 50 100

N

| W LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L16 | | 123.68 | S88° 34' 40.54"E |
| C18 | 299.00 | 39.91 | N87° 35' 55.14"E |
| C19 | 328.00 | 21.69 | N85° 39' 27.49"E |
| C20 | 299.00 | 55.37 | S87° 08' 43.99"E |
| L17 | | 28.81 | S81° 50' 24.00"E |
| L18 | | 55.43 | S88° 26' 12.24"E |
| C21 | 200.00 | 38.37 | N86° 04' 00.86"E |
| C22 | 320.00 | 62.41 | N86° 09' 16.00"E |
| L19 | | 722.99 | S88° 15' 31.51"E |
| C23 | 250.00 | 23.39 | N89° 03' 33.17"E |
| C24 | 360.00 | 53.19 | S89° 23' 18.58"E |
| C25 | 250.00 | 38.66 | S80° 43' 32.52"E |
| L20 | | 37.19 | S76° 17' 44.59"E |
| L21 | | 32.94 | S83° 58' 12.50"E |
| C26 | 300.00 | 77.41 | N88° 38' 14.44"E |
| C27 | 300.00 | 55.96 | N86° 35' 20.59"E |
| L22 | | 703.91 | S88° 04' 00.21"E |
| C28 | 475.00 | 45.84 | N89° 10' 07.17"E |
| C29 | 300.00 | 80.21 | S85° 56' 10.84"E |
| L23 | | 33.79 | S78° 16' 36.22"E |

| W LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L24 | | 36.12 | S84° 28' 33.33"E |
| C30 | 300.00 | 74.63 | N88° 23' 50.33"E |
| C31 | 300.00 | 55.83 | N86° 36' 06.89"E |
| L25 | | 730.22 | S88° 04' 00.20"E |
| C32 | 500.00 | 42.00 | N89° 31' 37.13"E |
| C33 | 300.00 | 82.26 | S85° 01' 27.75"E |
| L26 | | 31.19 | S77° 10' 09.96"E |
| L27 | | 29.10 | S84° 33' 03.34"E |
| C34 | 325.00 | 80.85 | N88° 19' 19.74"E |
| C35 | 325.00 | 60.91 | N86° 33' 51.31"E |
| L28 | | 638.41 | S88° 04' 00.20"E |
| C36 | 600.00 | 35.97 | S86° 20' 56.97"E |
| C37 | 432.00 | 72.01 | S89° 24' 24.99"E |
| C38 | 300.00 | 94.41 | S85° 09' 59.91"E |
| L29 | | 16.54 | S76° 09' 03.59"E |
| L30 | | 29.13 | N89° 24' 27.00"E |
| C39 | 300.00 | 71.67 | N82° 33' 48.03"E |
| C40 | 266.00 | 82.87 | N84° 38' 38.82"E |
| C41 | 603.00 | 23.14 | S87° 31' 49.71"E |
| L31 | | 187.28 | S88° 37' 48.00"E |

| W LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| C42 | 750.00 | 124.65 | N86° 36' 31.69"E |
| L32 | | 57.87 | N81° 50' 51.38"E |
| C43 | 800.00 | 138.77 | N86° 49' 01.59"E |
| L33 | | 455.24 | S88° 12' 48.20"E |
| C44 | 284.00 | 63.25 | N85° 24' 21.71"E |
| L34 | | 13.64 | N79° 01' 31.62"E |

| L LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L45 | | 82.10 | N1° 41' 55.46"E |
| C58 | 600.00 | 41.41 | N3° 40' 32.71"E |
| C59 | 267.00 | 41.39 | N1° 12' 41.92"E |
| C60 | 300.00 | 67.34 | N3° 12' 05.04"E |
| L46 | | 32.02 | N9° 37' 56.19"E |
| L47 | | 32.02 | N5° 18' 11.44"E |
| C61 | 300.00 | 67.37 | N1° 07' 47.35"W |
| C62 | 260.00 | 56.69 | N1° 18' 58.83"W |
| C63 | 600.00 | 34.08 | N3° 18' 10.96"E |
| L48 | | 65.57 | N1° 40' 52.96"E |

## GENERAL NOTES

1. SEE SHEET HC1 FOR SURVEY CONTROL.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED K. BECKER
DRAWN K. BECKER
CHECKED J. KEMNITZ
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-HC01-04_09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRII VICTOROVICH SUSLIKOV STATE OF WASHINGTON 36390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# HORIZONTAL CONTROL

DRAWING NO. 6 OF 169

HC3


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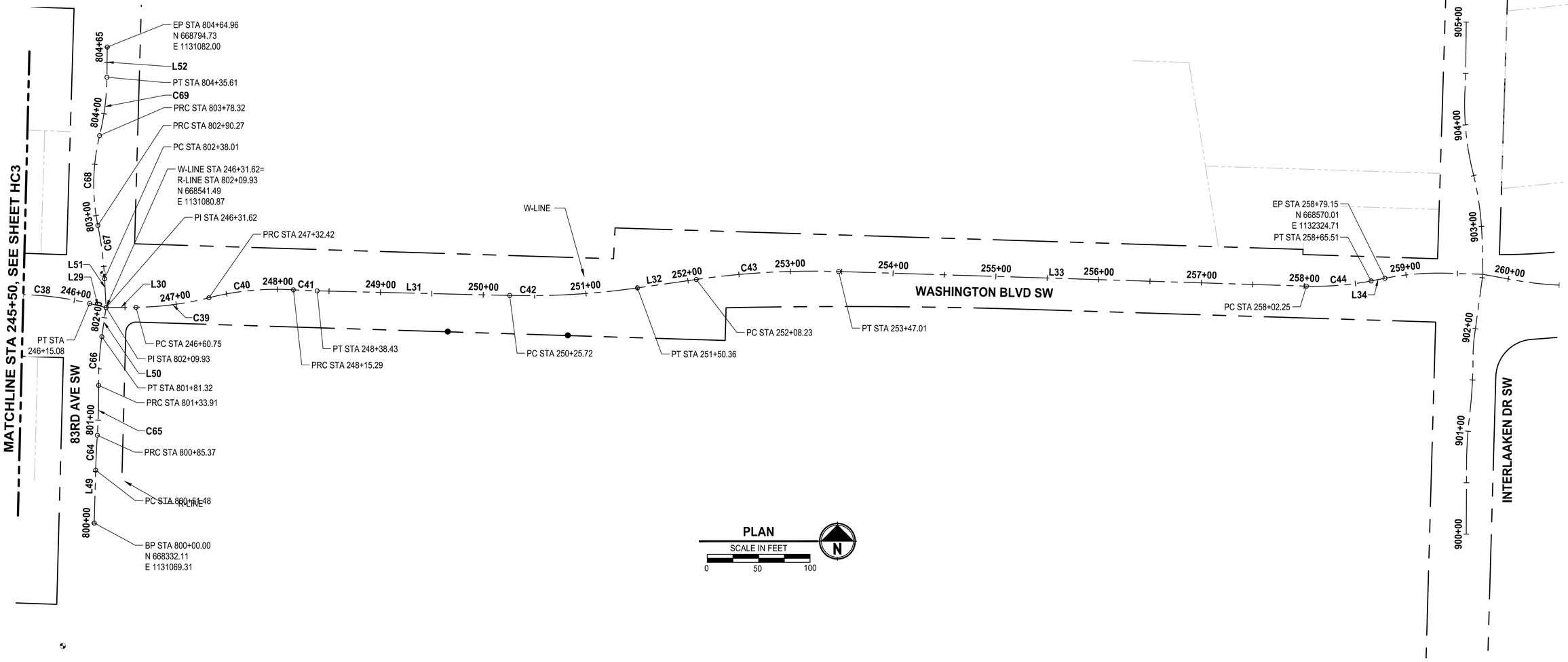


## GENERAL NOTES

1. SEE SHEET HC1 FOR SURVEY CONTROL.
2. SEE SHEET HC3 FOR W-LINE LINE AND CURVE TABLE.

| R LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L49 | | 51.48 | N1° 37' 51.85"E |
| C64 | 927.00 | 33.89 | N2° 40' 42.63"E |
| C65 | 621.00 | 48.53 | N1° 29' 12.99"E |
| C66 | 300.00 | 47.41 | N3° 46' 31.53"E |
| L50 | | 28.61 | N8° 18' 10.49"E |
| L51 | | 28.08 | N2° 56' 25.57"W |
| C67 | 350.00 | 52.26 | N7° 13' 04.65"W |
| C68 | 200.00 | 88.05 | N1° 06' 59.67"E |
| C69 | 250.00 | 57.30 | N7° 09' 45.81"E |
| L52 | | 29.34 | N0° 35' 48.55"E |

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED K. BECKER
DRAWN K. BECKER
CHECKED J. KEMNITZ
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-HC01-04_09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD, WA 1996

DMITRI VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
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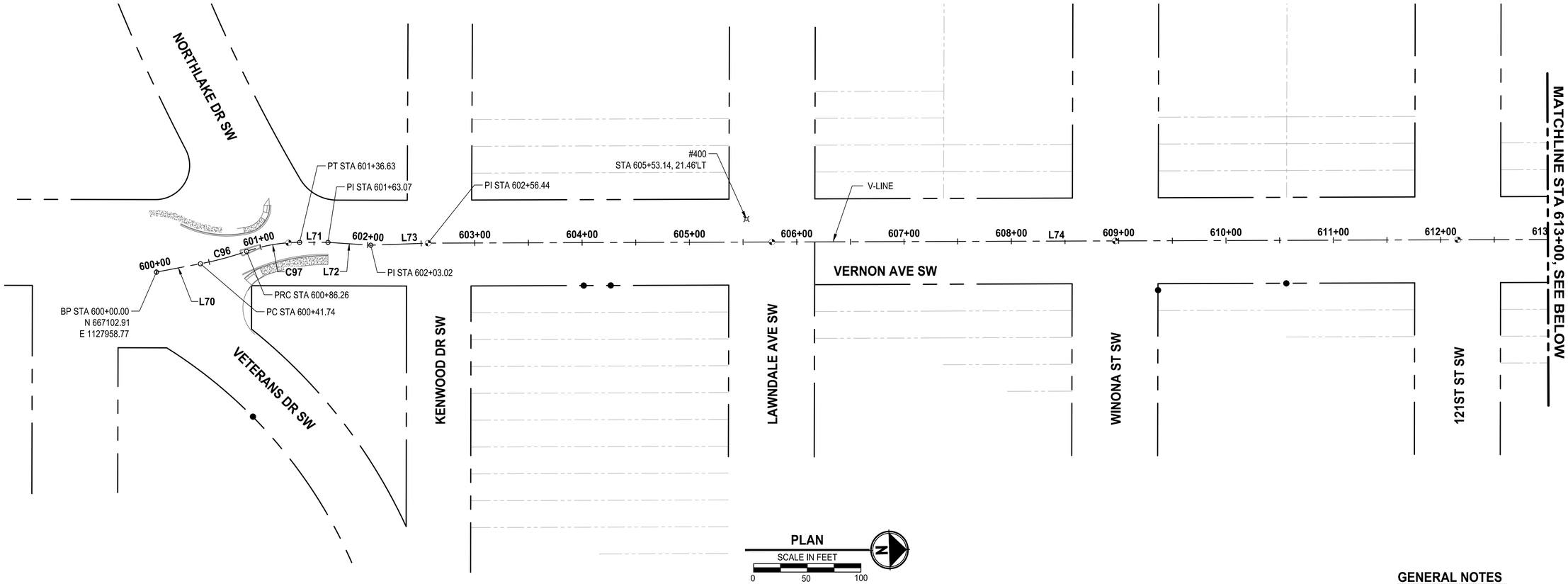
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

HORIZONTAL CONTROL

DRAWING NO. 7 OF 169
HC4

LAYOUT: HC4 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 10:12:41 AM




## GENERAL NOTES

1. SEE SHEET HC1 FOR SURVEY CONTROL.

| V LINE | | | |
|---|---|---|---|
| NUMBER | RADIUS | LENGTH | LINE/CHORD DIRECTION |
| L70 | | 41.74 | N8° 54' 53.95"W |
| C96 | 300.00 | 44.53 | N13° 10' 00.80"W |
| C97 | 150.00 | 50.37 | N7° 47' 58.28"W |
| L71 | | 26.44 | N1° 49' 11.09"E |
| L72 | | 39.95 | N5° 34' 04.64"E |
| L73 | | 53.42 | N0° 12' 53.37"W |
| L74 | | 1105.13 | N1° 37' 54.06"E |
| C98 | 496.00 | 40.65 | N3° 58' 45.90"E |
| C99 | 277.00 | 51.77 | N0° 58' 22.52"E |
| C100 | 400.00 | 58.48 | N0° 11' 35.70"W |
| L75 | | 33.05 | N3° 59' 41.29"E |
| L76 | | 32.54 | N3° 26' 25.72"E |
| C101 | 400.00 | 59.30 | N0° 48' 24.95"W |
| C102 | 300.00 | 59.10 | N0° 35' 22.65"E |
| C103 | 600.00 | 48.39 | N3° 55' 23.53"E |
| L77 | | 126.38 | N1° 36' 46.14"E |

| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED K. BECKER
DRAWN K. BECKER
CHECKED J. KEMNITZ
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-HC01-04_09
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRI VICTOROVICH SUSHKOV — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# HORIZONTAL CONTROL

DRAWING NO. 8 OF 169

HC5


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 10:12:55 AM
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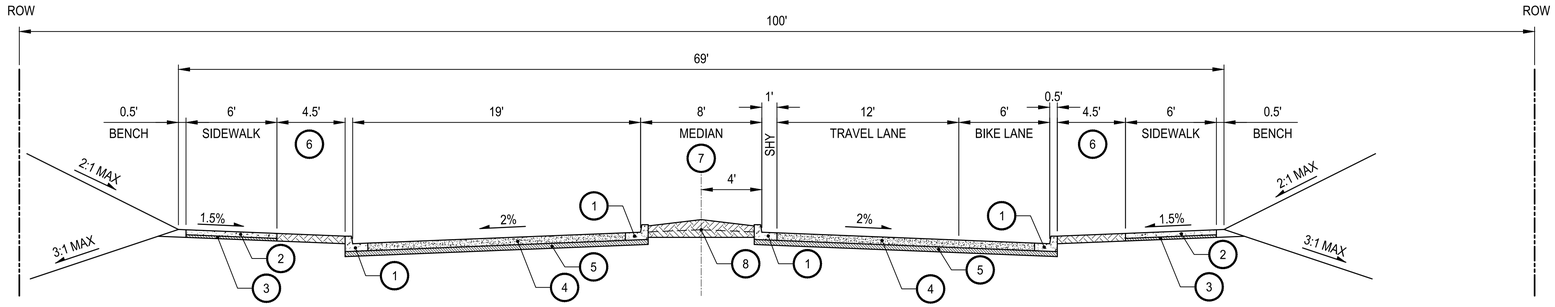


**EDGEWOOD AVE SW TO 83RD AVE SW**
**WASHINGTON BLVD SW**

## SECTION

1"=5'

STA 205+65 TO STA 214+41, STA 216+01 TO STA 224+71,
STA 226+32 TO STA 235+23, STA 236+85 TO STA 245+57




**83RD AVE SW TO INTERLAAKEN DR SW**
**WASHINGTON BLVD SW**

## SECTION

1"=5'

STA 247+07 TO STA 257+92

## CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04. SLOPE GUTTER TO MATCH ROADWAY CROSS-SLOPE.
2. 4" DEPTH CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03.
3. 2"' DEPTH CSTC.
4. 6" DEPTH HMA CL ½" PG 58H-22.
5. 4" DEPTH CSTC.
6. COLORED CONCRETE PER SPEC SECT 8-14 OR PLANTING PER LANDSCAPE PLANS AS SHOWN ON ROADWAY PLANS.
7. CONSTRUCTION CENTERLINE.
8. HORIZONTAL AND VERTICAL CONTROL POINT.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Wednesday, January 26, 2022 12:04:15 PM
LAYOUT: RS1

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DESIGNED D. SUSLIKOV
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RS01-02
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRI VICTOROVITC SUSLIKOV
STATE OF WASHINGTON
38390
REGISTERED
PROFESSIONAL ENGINEER
01/14/2022

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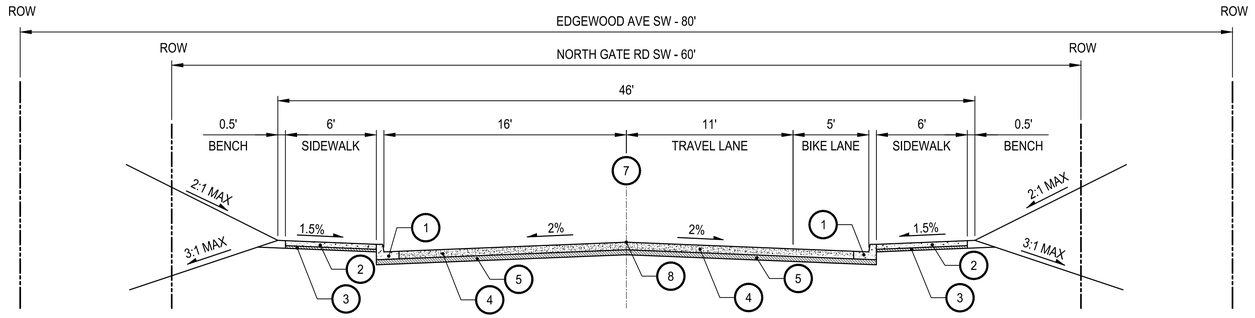
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

**ROADWAY SECTIONS**

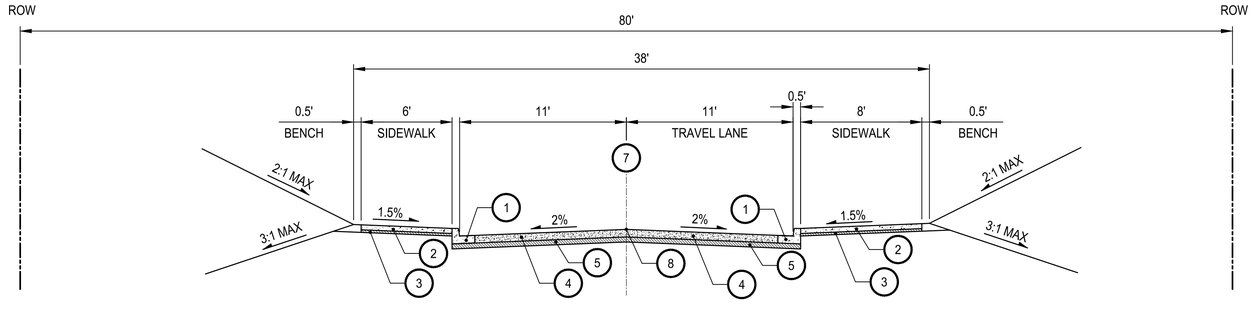
DRAWING NO. 9 OF 169
**RS1**




**EDGEWOOD AVE SW,**
**NORTH GATE RD SW**
**SECTION**

1"=5'

EDGEWOOD AVE SW: STA 300+39 TO STA 301+45, STA 303+00 TO STA 307+92
NORTH GATE RD SW: STA 401+22 TO STA 412+51, STA 414+06 TO STA 415+29

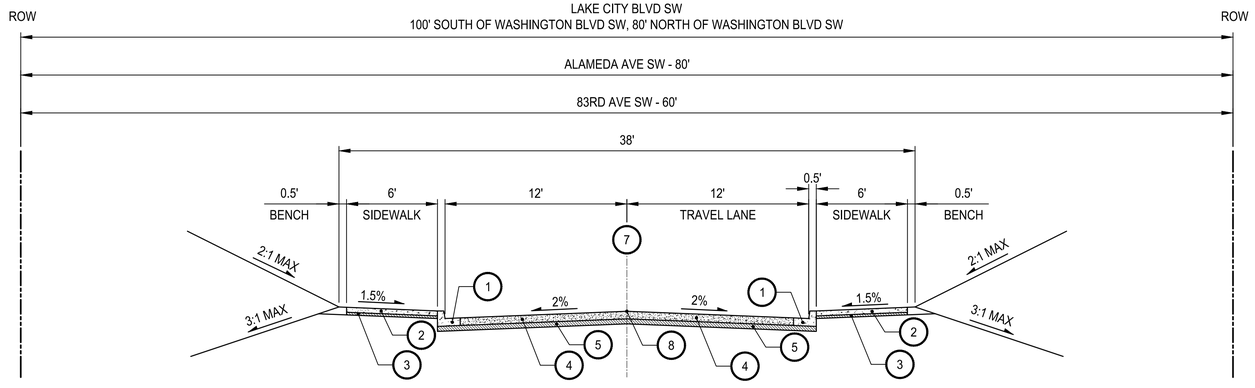



**VERNON AVE SW**
**SECTION**

1"=5'

STA 601+15 TO STA 614+65, STA 616+26 TO STA 617+45

LAKE CITY BLVD SW
100' SOUTH OF WASHINGTON BLVD SW, 80' NORTH OF WASHINGTON BLVD SW




**ALAMEDA AVE SW, LAKE CITY BLVD SW,**
**AND 83RD AVE SW**
**SECTION**

1"=5'

ALAMEDA AVE SW: STA 500+51 TO STA 501+40, STA 503+00 TO STA 504+20
LAKE CITY BLVD SW: STA 700+64 TO STA 701+83, STA 703+46 TO STA 705+18

## CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04. SLOPE GUTTER TO MATCH ROADWAY CROSS-SLOPE.
2. 4" DEPTH CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03.
3. 2"' DEPTH CSTC.
4. 6" DEPTH HMA CL ½" PG 58H-22.
5. 4" DEPTH CSTC.
6. COLORED CONCRETE PER SPEC SECT 8-14 OR PLANTING PER LANDSCAPE PLANS AS SHOWN ON ROADWAY PLANS.
7. CONSTRUCTION CENTERLINE.
8. HORIZONTAL AND VERTICAL CONTROL POINT.


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: tsylokat DATE: Wednesday, January 26, 2022 12:04:16 PM
LAYOUT: RS2


| | REVISIONS | DATE | BY |
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DESIGNED D. SUSLIKOV
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RS01-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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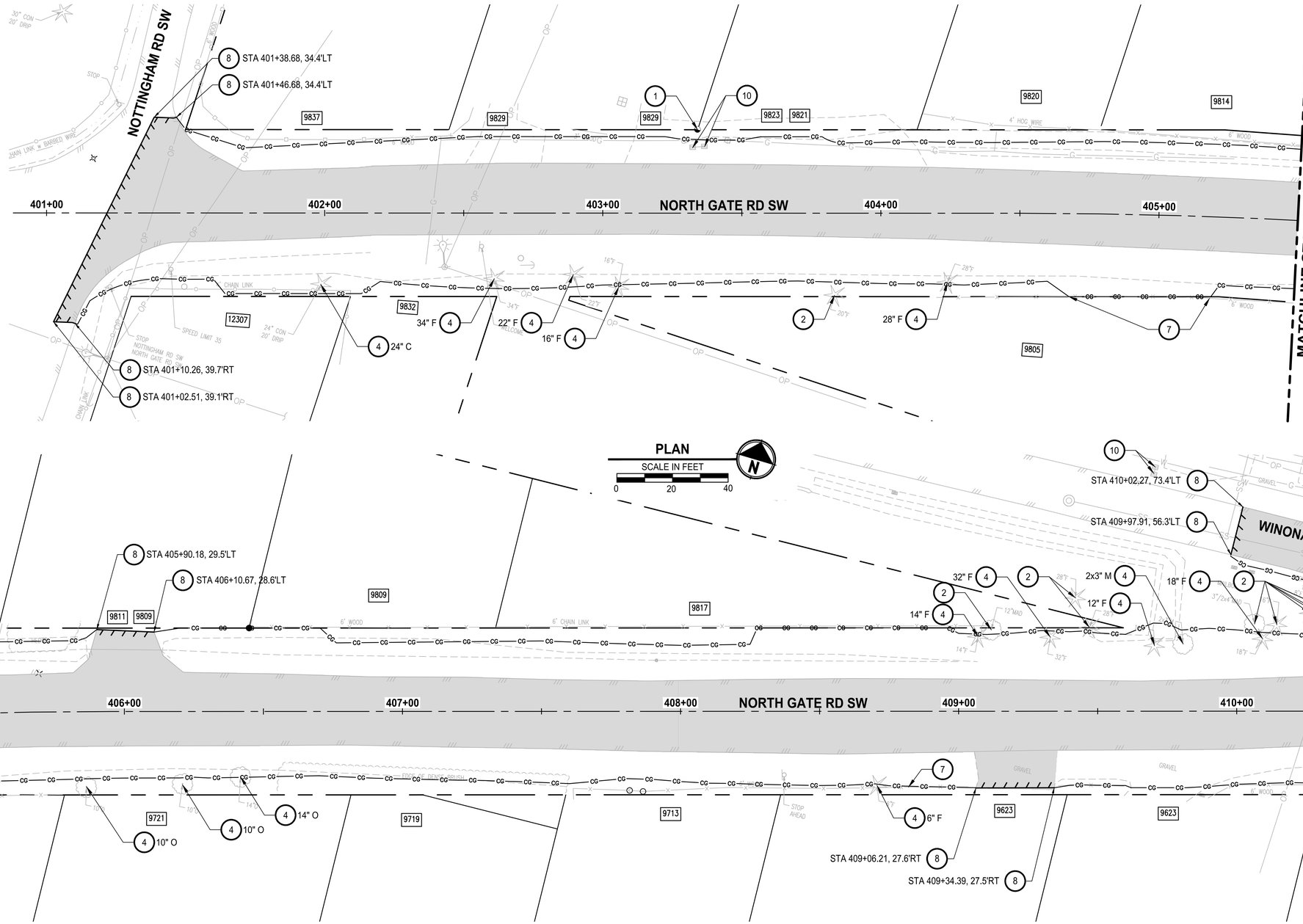
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ROADWAY SECTIONS

DRAWING NO. 10 OF 169
**RS2**




## SITE PREPARATION NOTES

1. PROTECT EXISTING MONUMENT.
2. PRESERVE AND PROTECT TREE OR SHRUB.
3. EXISTING MONUMENT TO BE RESET. SEE PP SHEETS FOR PROPOSED LOCATION.
4. REMOVE TREE.
5. REMOVE STRUCTURE/OBSTRUCTION.
6. REMOVE CHANNELIZATION OR PAVEMENT MARKING.
7. REMOVE FENCE TO NEAREST POST OUTSIDE CLEARING AND GRUBBING LIMITS.
8. SAWCUT ASPHALT CONCRETE.
9. SAWCUT CEMENT CONCRETE TO NEAREST JOINT.
10. INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.

## LEGEND

- CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT
- REMOVE CURB AND GUTTER
- SAWCUT LINE
- HIGH VISIBILITY FENCE

## GENERAL NOTES

1. REMOVE EXISTING SURFACE IMPROVEMENTS AND VEGETATION WITHIN CLEARING AND GRUBBING LIMITS UNLESS OTHERWISE NOTED. PRESERVE AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE UTILITY SPECIFIC PLANS.
2. REMOVE TREES/SHRUBS/VEGETATION WITHIN CLEARING LIMITS, UNLESS OTHERWISE NOTED. TREE DIAMETERS ARE NOTED ON THE PLANS FOR THE CONTRACTOR'S CONVENIENCE ONLY BUT DOES NOT RELIEVE THE CONTRACTOR FROM REMOVING ANY UNMARKED TREES OR SHRUBS WITHIN THE LIMITS.
3. PROTECT EXISTING TRAFFIC CONTROL SIGNAGE AND MAILBOXES UNTIL PERMANENTLY REPLACED OR RELOCATED.
4. SEE THE FOLLOWING SHEETS FOR ADDITIONAL SITE PREPARATION REQUIREMENTS INCLUDING REMOVAL, PROTECTION, AND RELOCATION OF EXISTING FACILITIES:

   EL - ELECTRICAL: EXISTING ILLUMINATION, POWER POLES AND TRAFFIC SIGNALS.

   CH - CHANNELIZATION AND SIGNAGE: EXISTING SIGNS.

   PP - ROADWAY PLAN AND PROFILE: EXISTING MAILBOXES.

   SD - STORM DRAINAGE PLAN AND PROFILE: EXISTING STORM DRAINAGE FACILITIES, SANITARY SEWER AND ALL OTHER UTILITIES.

   WA - WATER PLAN AND PROFILE: EXISTING WATER LINE, HYDRANTS, METERS AND APPURTENANCES.

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CODY A. JAMISON — STATE OF WASHINGTON — 41376 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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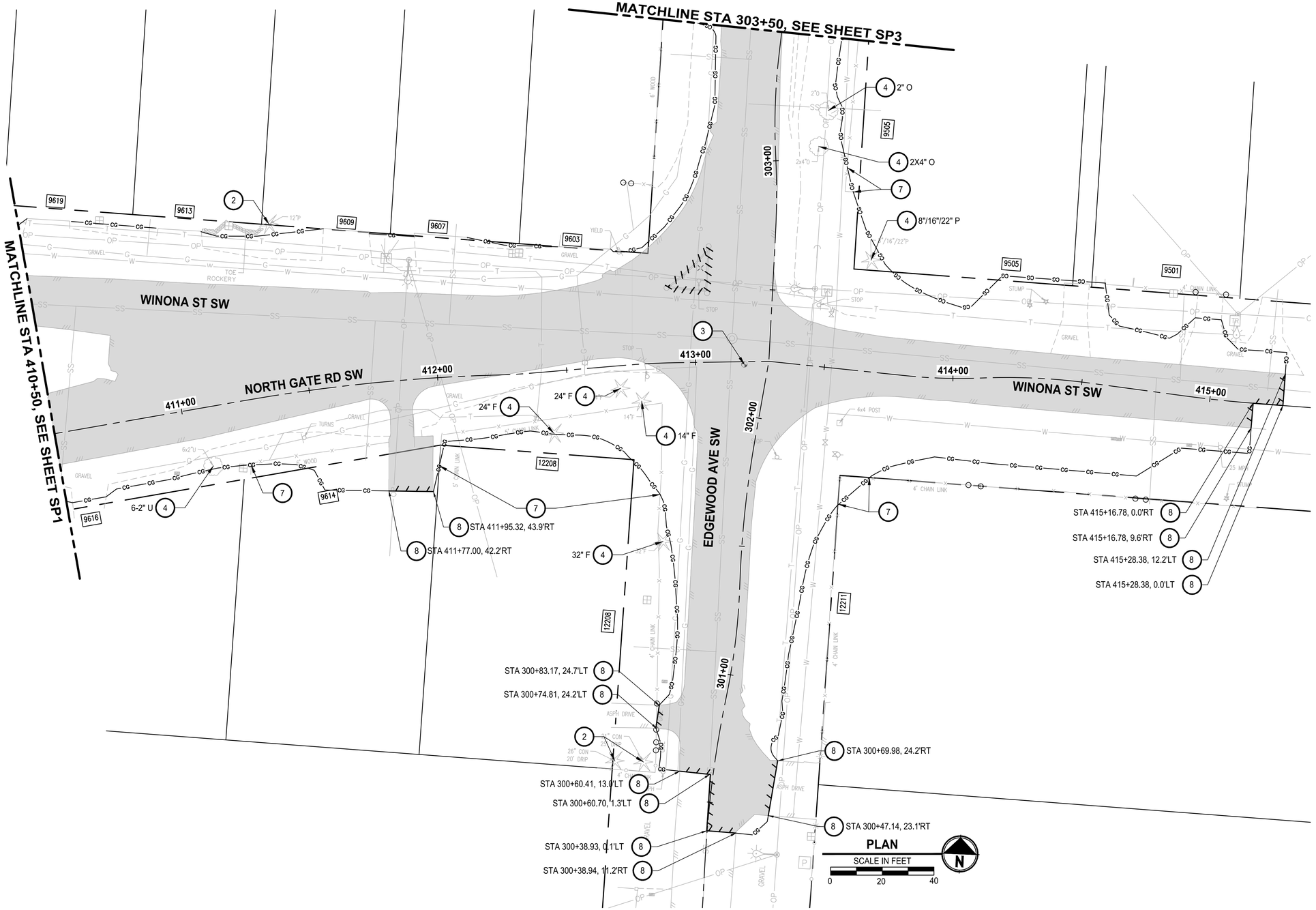
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION NORTH GATE RD SW

DRAWING NO. 11 OF 169
**SP1**

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: taylokot DATE: Wednesday, January 26, 2022 12:33:33 PM
LAYOUT: SP1




## SITE PREPARATION NOTES

1. PROTECT EXISTING MONUMENT.
2. PRESERVE AND PROTECT TREE OR SHRUB.
3. EXISTING MONUMENT TO BE RESET. SEE PP SHEETS FOR PROPOSED LOCATION.
4. REMOVE TREE.
5. REMOVE STRUCTURE/OBSTRUCTION.
6. REMOVE CHANNELIZATION OR PAVEMENT MARKING.
7. REMOVE FENCE TO NEAREST POST OUTSIDE CLEARING AND GRUBBING LIMITS.
8. SAWCUT ASPHALT CONCRETE.
9. SAWCUT CEMENT CONCRETE TO NEAREST JOINT.
10. INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.

## LEGEND

- CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT
- REMOVE CURB AND GUTTER
- SAWCUT LINE
- HIGH VISIBILITY FENCE

## GENERAL NOTES

1. REMOVE EXISTING SURFACE IMPROVEMENTS AND VEGETATION WITHIN CLEARING AND GRUBBING LIMITS UNLESS OTHERWISE NOTED. PRESERVE AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE UTILITY SPECIFIC PLANS.
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3. PROTECT EXISTING TRAFFIC CONTROL SIGNAGE AND MAILBOXES UNTIL PERMANENTLY REPLACED OR RELOCATED.
4. SEE THE FOLLOWING SHEETS FOR ADDITIONAL SITE PREPARATION REQUIREMENTS INCLUDING REMOVAL, PROTECTION, AND RELOCATION OF EXISTING FACILITIES:

   EL - ELECTRICAL: EXISTING ILLUMINATION, POWER POLES AND TRAFFIC SIGNALS.

   CH - CHANNELIZATION AND SIGNAGE: EXISTING SIGNS.

   PP - ROADWAY PLAN AND PROFILE: EXISTING MAILBOXES.

   SD - STORM DRAINAGE PLAN AND PROFILE: EXISTING STORM DRAINAGE FACILITIES, SANITARY SEWER AND ALL OTHER UTILITIES.

   WA - WATER PLAN AND PROFILE: EXISTING WATER LINE, HYDRANTS, METERS AND APPURTENANCES.

| | REVISIONS | DATE | BY |
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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

CODY A. JANSON — STATE OF WASHINGTON — 41376 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION NORTH GATE RD SW

DRAWING NO. 12 OF 169

SP2


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Sucs\CADD\DWG PLOTTED BY: taylokot DATE: Wednesday, January 26, 2022 12:33:48 PM
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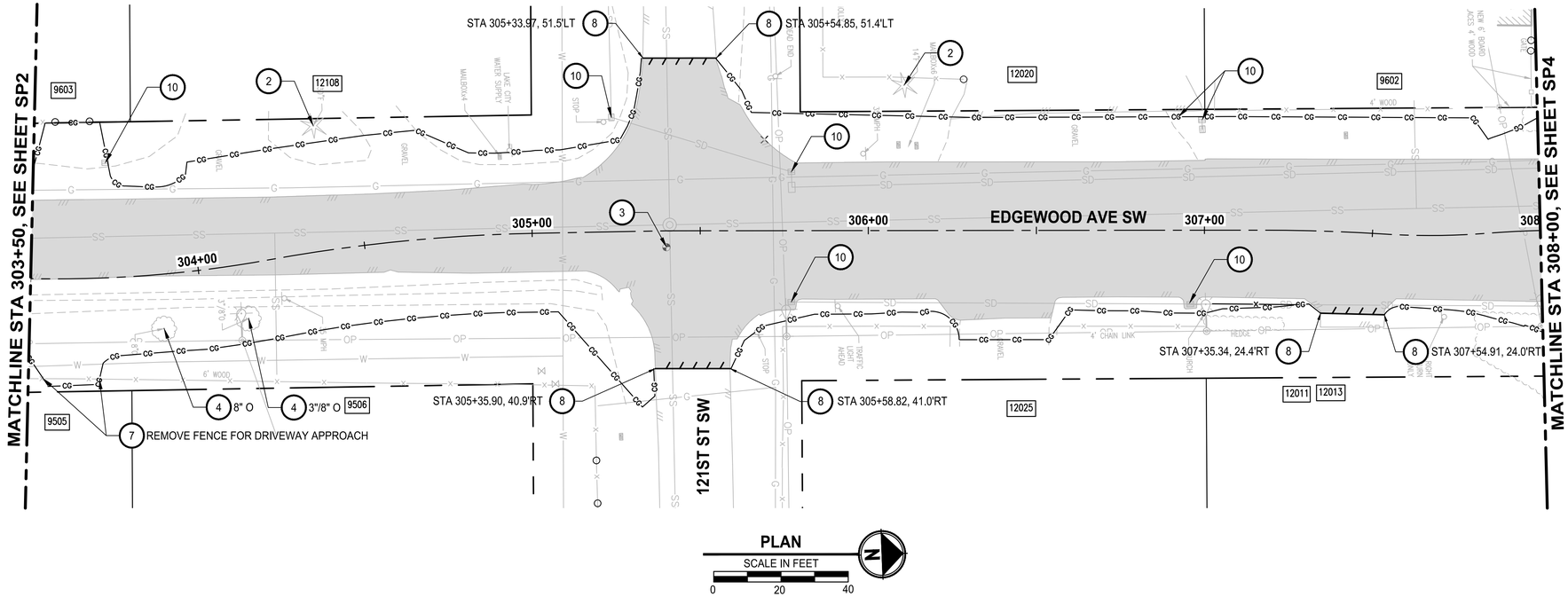


PLAN
SCALE IN FEET
0 20 40

## SITE PREPARATION NOTES

1. PROTECT EXISTING MONUMENT.
2. PRESERVE AND PROTECT TREE OR SHRUB.
3. EXISTING MONUMENT TO BE RESET. SEE PP SHEETS FOR PROPOSED LOCATION.
4. REMOVE TREE.
5. REMOVE STRUCTURE/OBSTRUCTION.
6. REMOVE CHANNELIZATION OR PAVEMENT MARKING.
7. REMOVE FENCE TO NEAREST POST OUTSIDE CLEARING AND GRUBBING LIMITS.
8. SAWCUT ASPHALT CONCRETE.
9. SAWCUT CEMENT CONCRETE TO NEAREST JOINT.
10. INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.

## LEGEND

- CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT
- REMOVE CURB AND GUTTER
- SAWCUT LINE
- HIGH VISIBILITY FENCE

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   WA - WATER PLAN AND PROFILE: EXISTING WATER LINE, HYDRANTS, METERS AND APPURTENANCES.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:34:03 PM
LAYOUT: SP3

| | REVISIONS | DATE | BY |
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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SP01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

CODY A. JANSON STATE OF WASHINGTON 41378 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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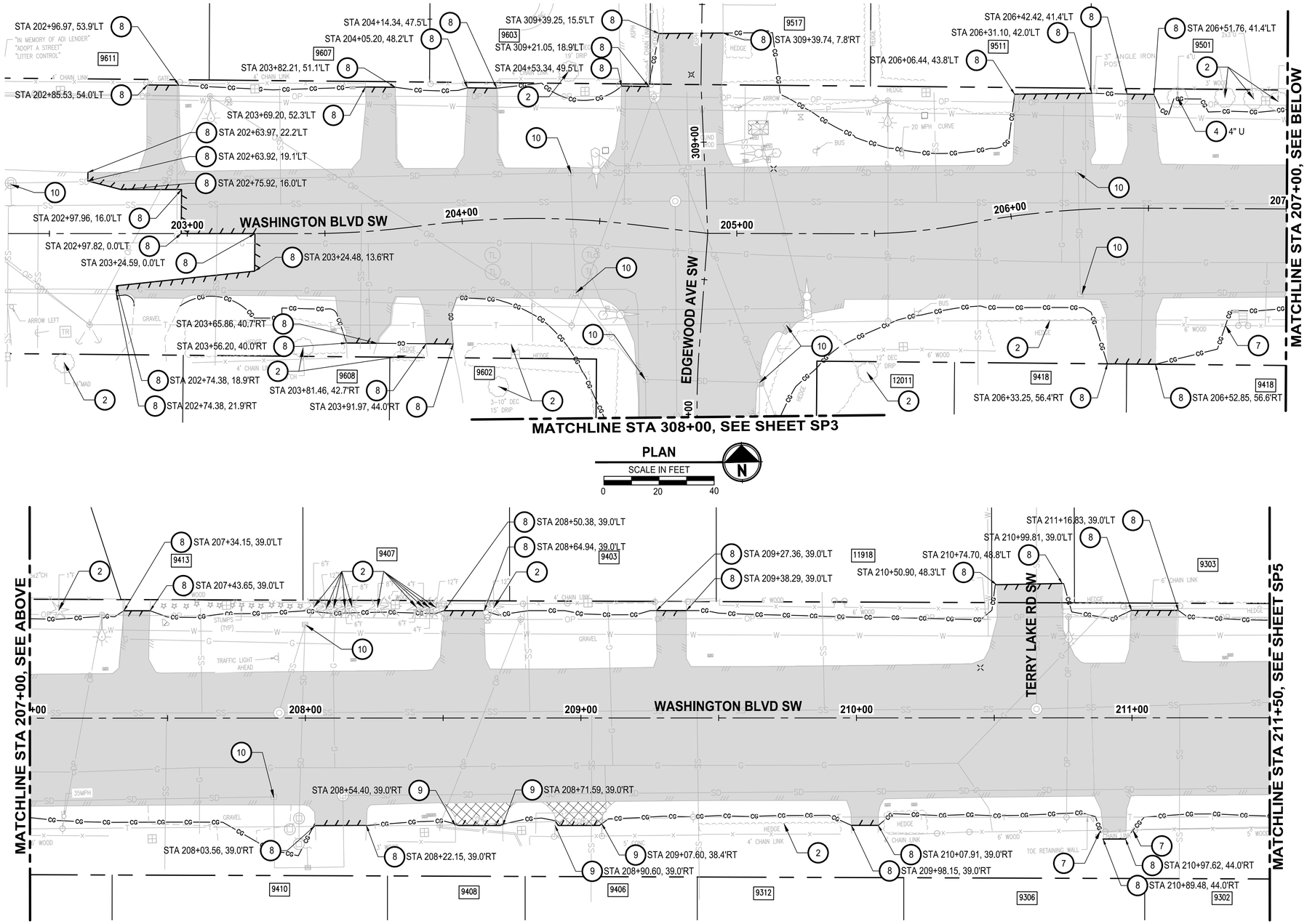
WWW.BCRADESIGN.COM

PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION EDGEWOOD AVE SW

DRAWING NO. 13 OF 169

**SP3**

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## LEGEND

- CLEARING AND GRUBBING LIMITS
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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP04-12
JOB No. 214-3047-013
DATE JANUARY 2022

CODY A. JANSON — STATE OF WASHINGTON — 41378 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 14 OF 169
SP4


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:34:25 PM
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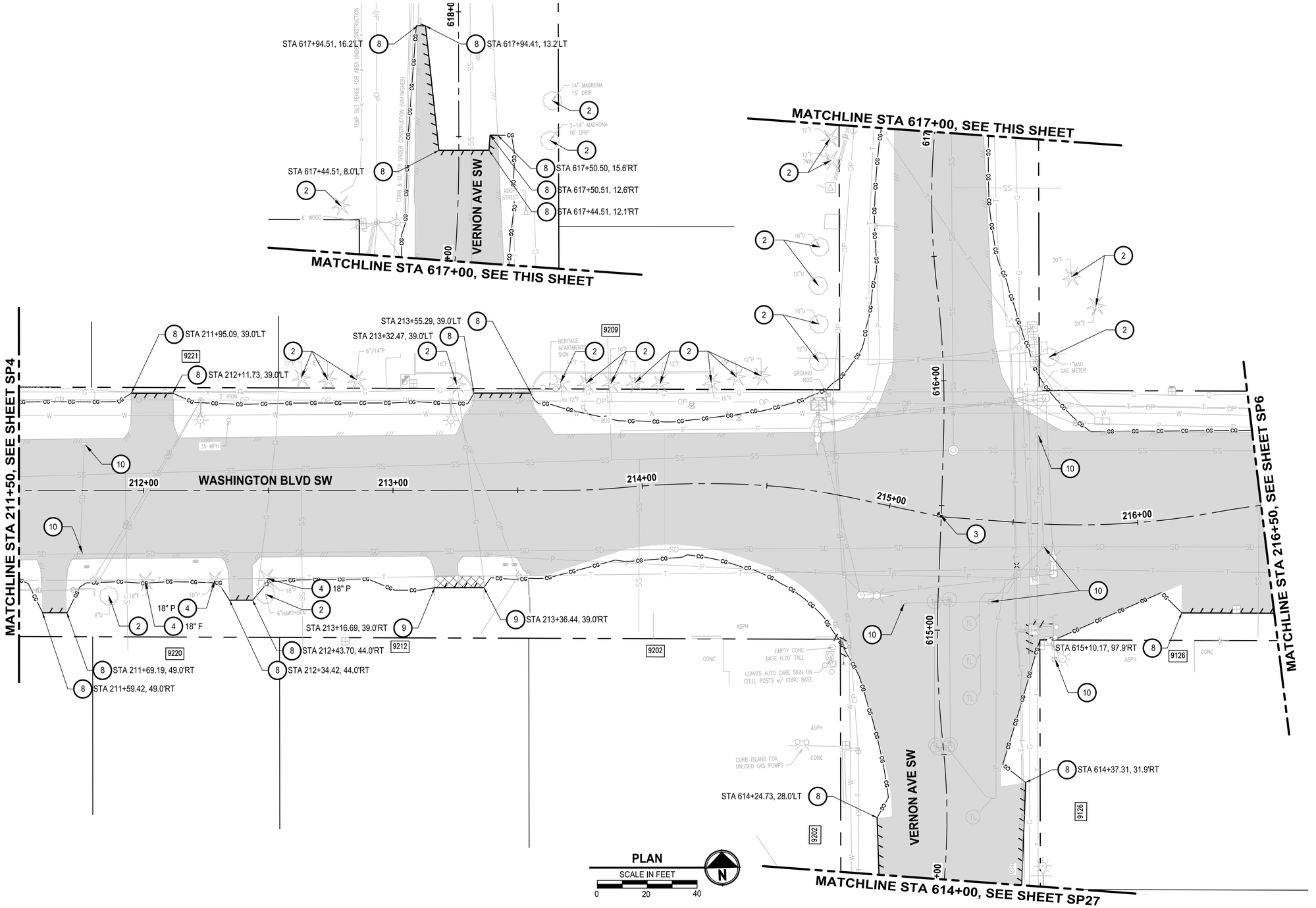


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9. SAWCUT CEMENT CONCRETE TO NEAREST JOINT.
10. INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.

## LEGEND

- CG — CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT
- REMOVE CURB AND GUTTER
- SAWCUT LINE
- HIGH VISIBILITY FENCE

## GENERAL NOTES

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DESIGNED C. GUTHIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP04-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

CODY A. JANSON — STATE OF WASHINGTON — 41378 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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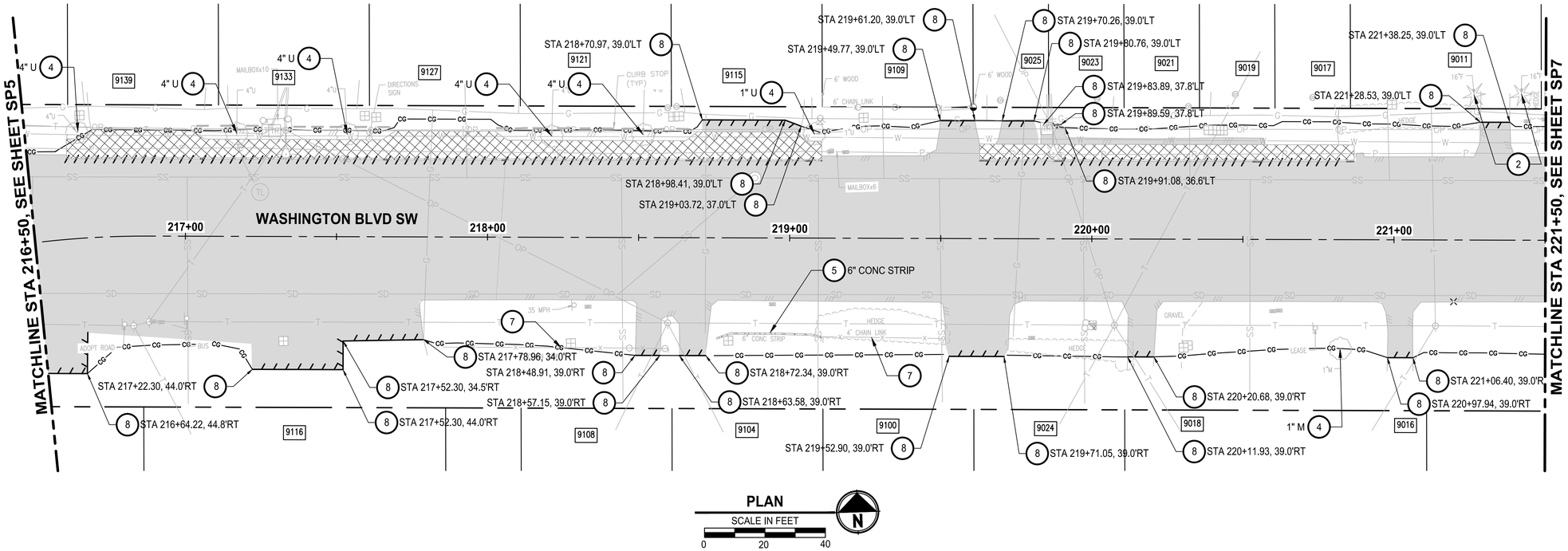
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 15 OF 169

SP5




PLAN

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## SITE PREPARATION NOTES

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## LEGEND

- CG — CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
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## GENERAL NOTES

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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP04-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

CODY A. JANSON STATE OF WASHINGTON 41378 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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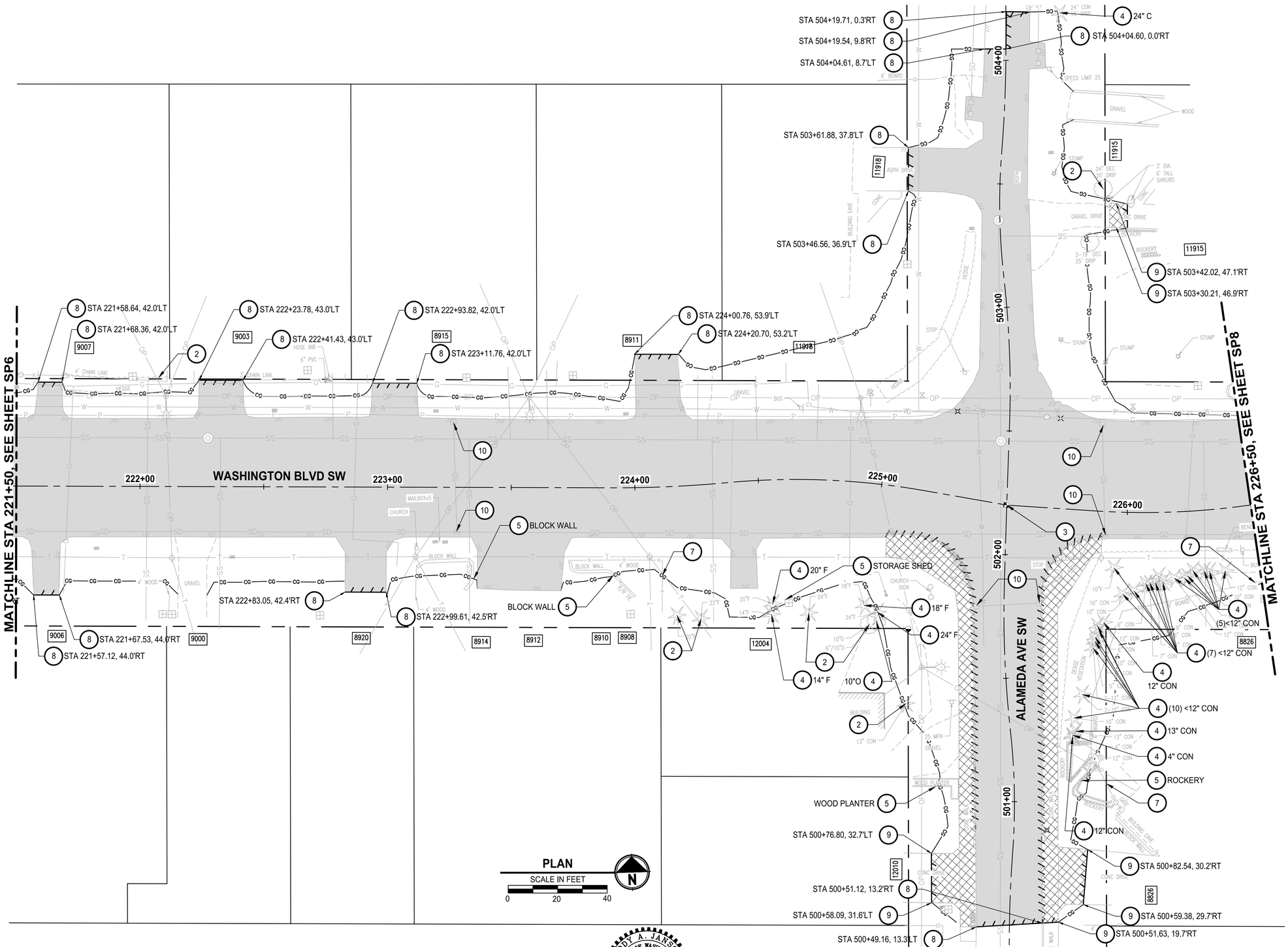
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 16 OF 169

SP6

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| | REVISIONS | DATE | BY |
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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SP04-12
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CITY OF LAKEWOOD WA 1996

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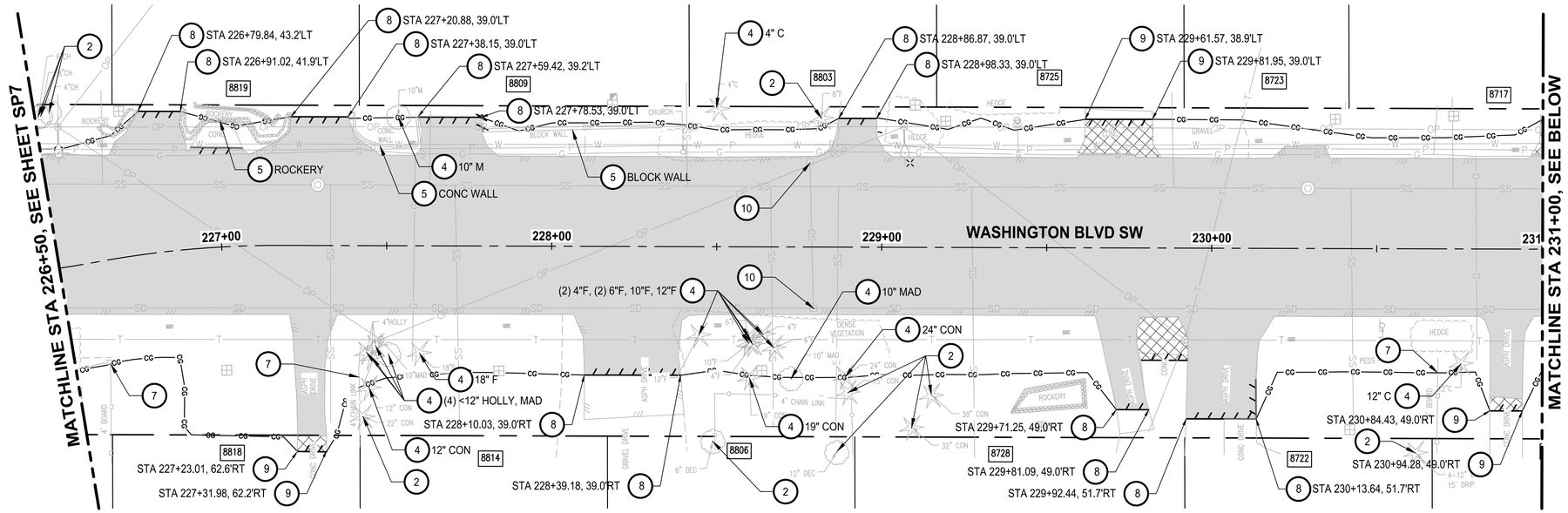
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 17 OF 169
**SP7**


LAYOUT: SP7 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:35:07 PM




PLAN
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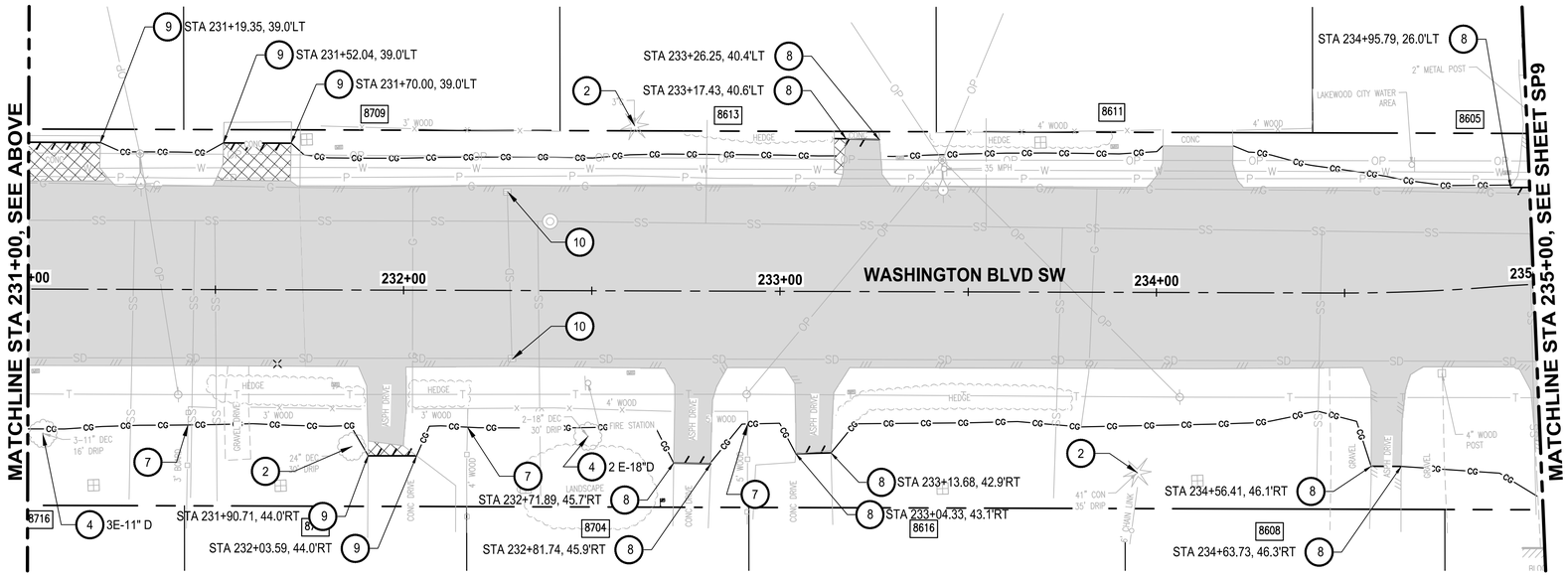


PLAN
SCALE IN FEET
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## SITE PREPARATION NOTES

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## LEGEND

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   SD - STORM DRAINAGE PLAN AND PROFILE: EXISTING STORM DRAINAGE FACILITIES, SANITARY SEWER AND ALL OTHER UTILITIES.

   WA - WATER PLAN AND PROFILE: EXISTING WATER LINE, HYDRANTS, METERS AND APPURTENANCES.

| | REVISIONS | DATE | BY |
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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SP04-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA •1996•

CODY A. JANSON — STATE OF WASHINGTON — 41378 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 18 OF 169
**SP8**


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:35:25 PM
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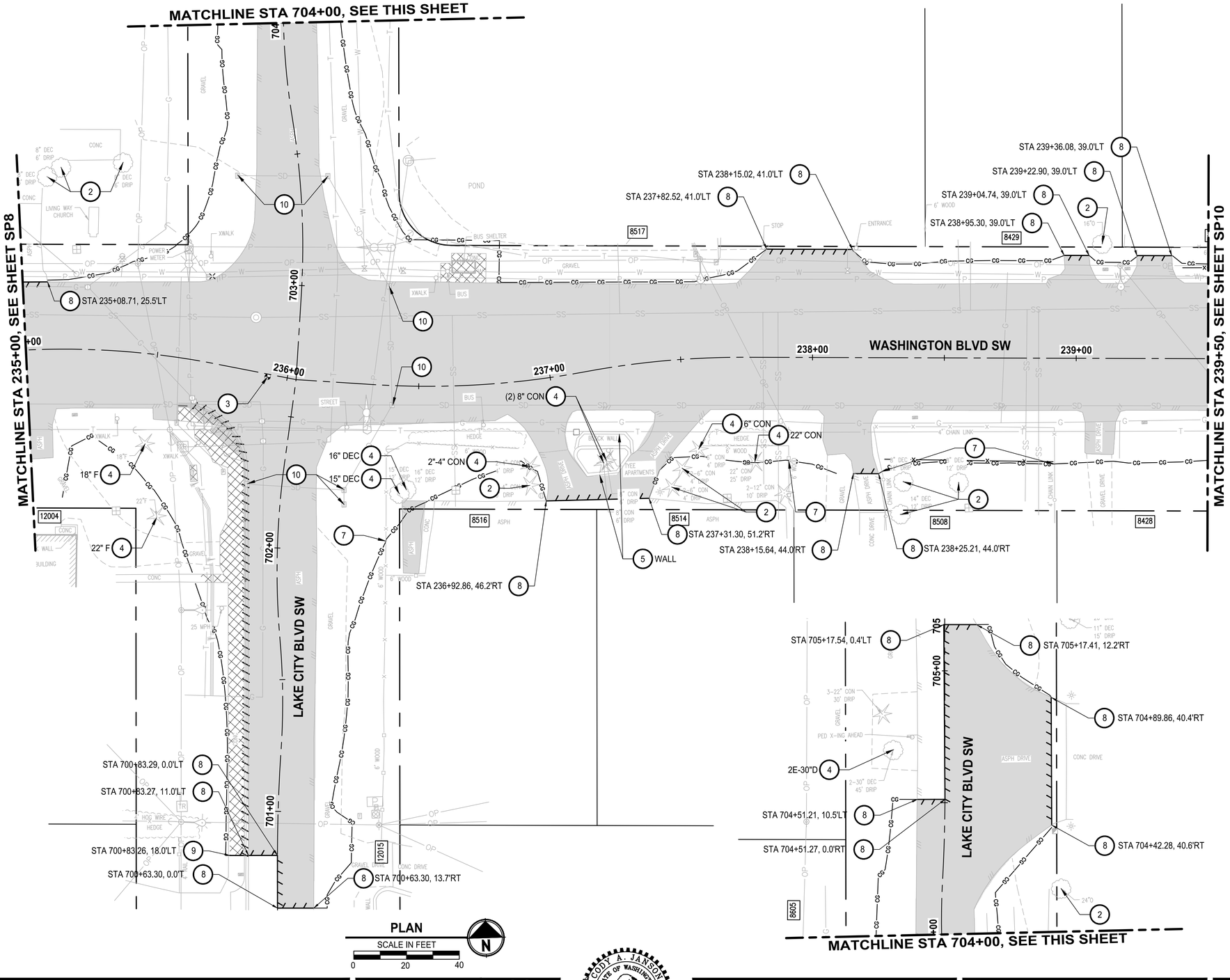


## SITE PREPARATION NOTES

1. PROTECT EXISTING MONUMENT.
2. PRESERVE AND PROTECT TREE OR SHRUB.
3. EXISTING MONUMENT TO BE RESET. SEE PP SHEETS FOR PROPOSED LOCATION.
4. REMOVE TREE.
5. REMOVE STRUCTURE/OBSTRUCTION.
6. REMOVE CHANNELIZATION OR PAVEMENT MARKING.
7. REMOVE FENCE TO NEAREST POST OUTSIDE CLEARING AND GRUBBING LIMITS.
8. SAWCUT ASPHALT CONCRETE.
9. SAWCUT CEMENT CONCRETE TO NEAREST JOINT.
10. INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.

## LEGEND

- CLEARING AND GRUBBING LIMITS
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT
- REMOVE CURB AND GUTTER
- SAWCUT LINE
- HIGH VISIBILITY FENCE

## GENERAL NOTES

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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 19 OF 169
SP9


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:35:45 PM
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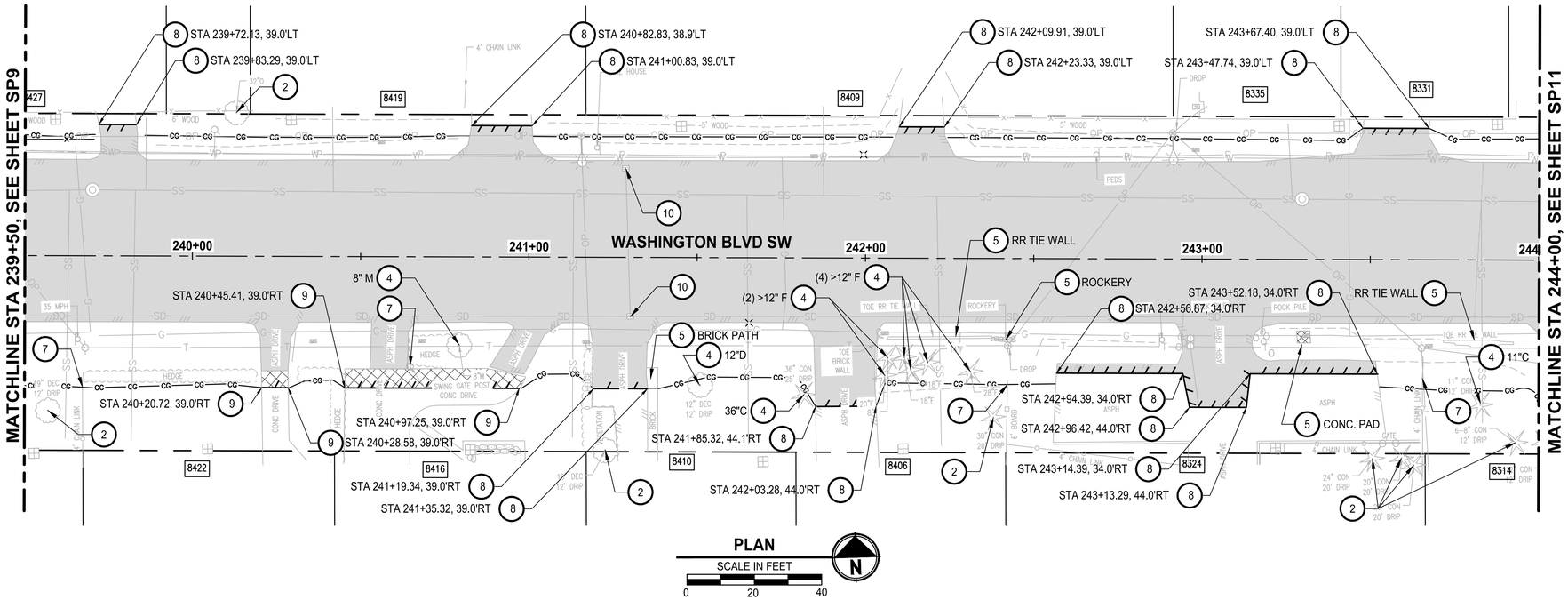


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## LEGEND

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LAYOUT: SP10


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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
APPROVED A. FISHER

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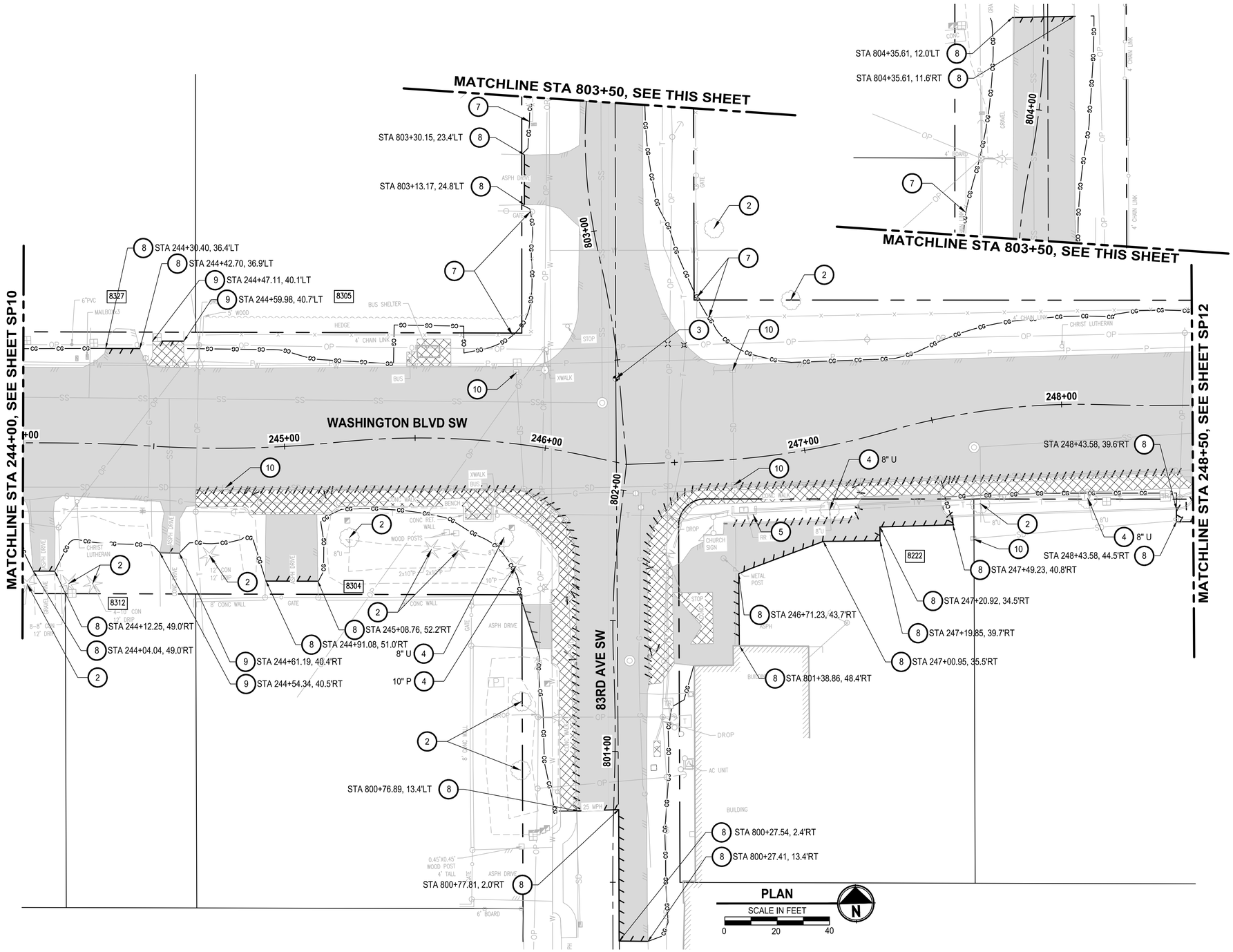
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 20 OF 169

**SP10**

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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 21 OF 169

**SP11**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykoat DATE: Wednesday, January 26, 2022 12:36:14 PM
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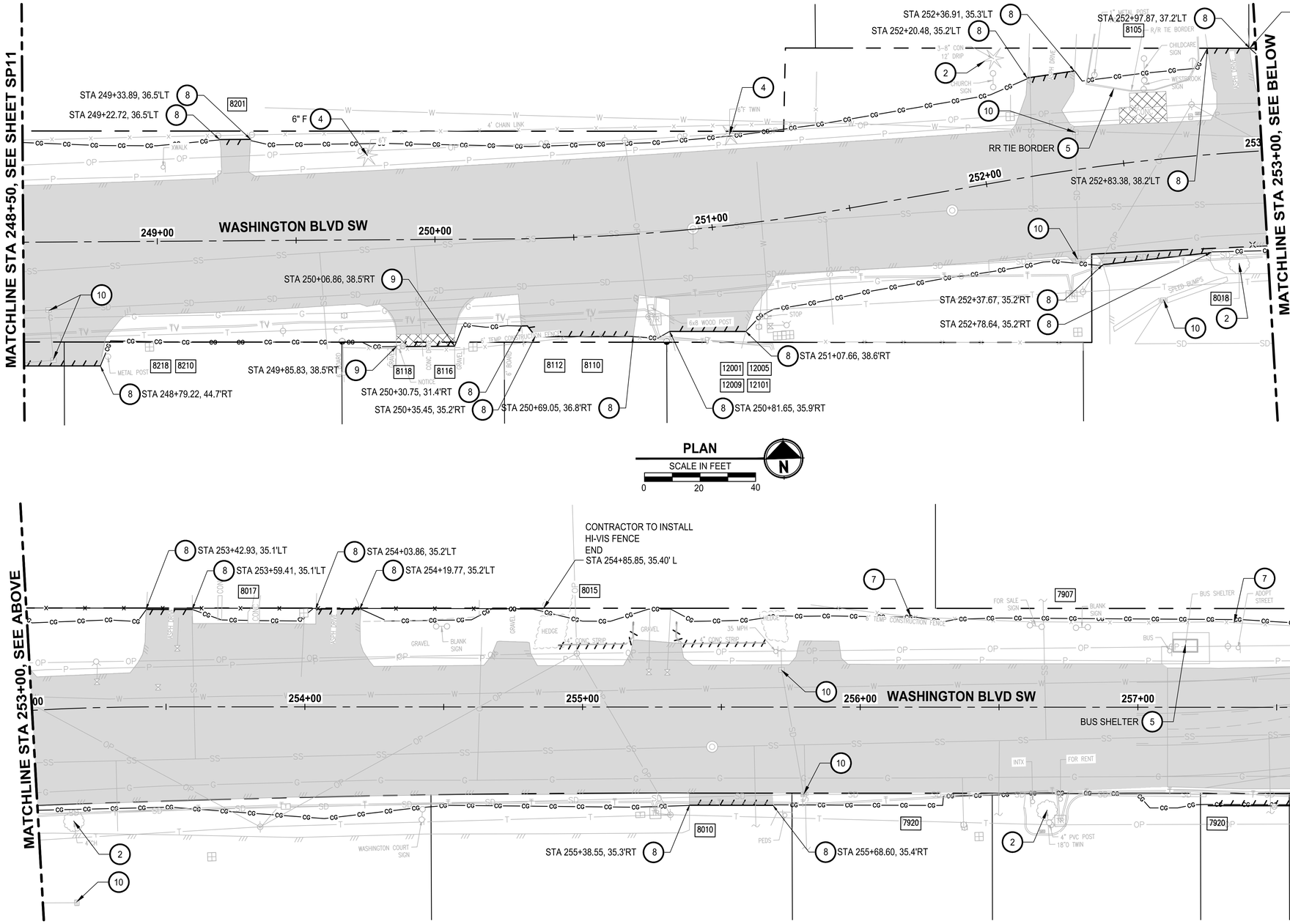


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DESIGNED C. GUTHRIE
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ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
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CITY OF LAKEWOOD WA 1996

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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION WASHINGTON BLVD SW

DRAWING NO. 22 OF 169
SP12


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 12:49:48 PM
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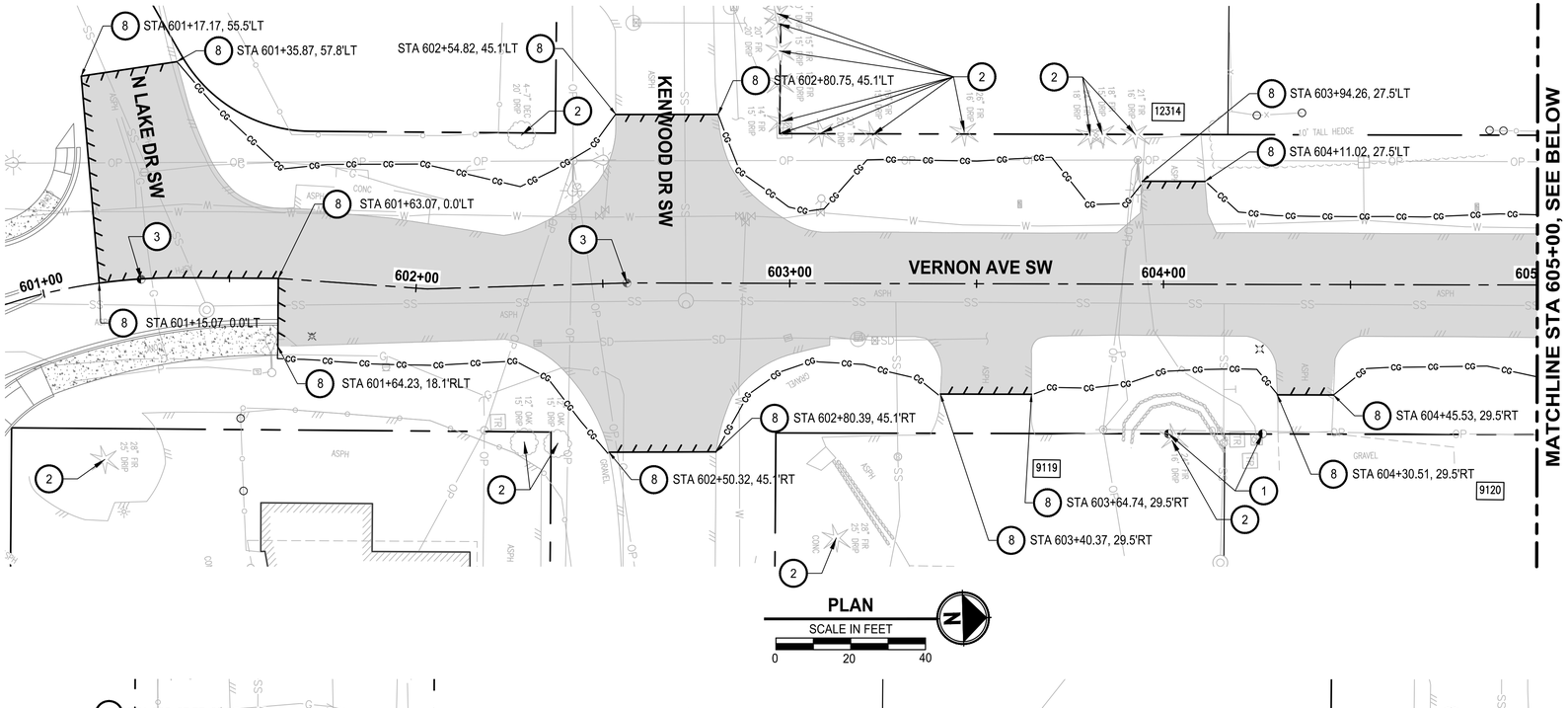


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DESIGNED C. GUTHRIE
DRAWN K. RAY
CHECKED D. PROCTOR
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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION VERNON AVE SW

DRAWING NO. 23 OF 169
SP13


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokot DATE: Wednesday, January 26, 2022 12:37:07 PM
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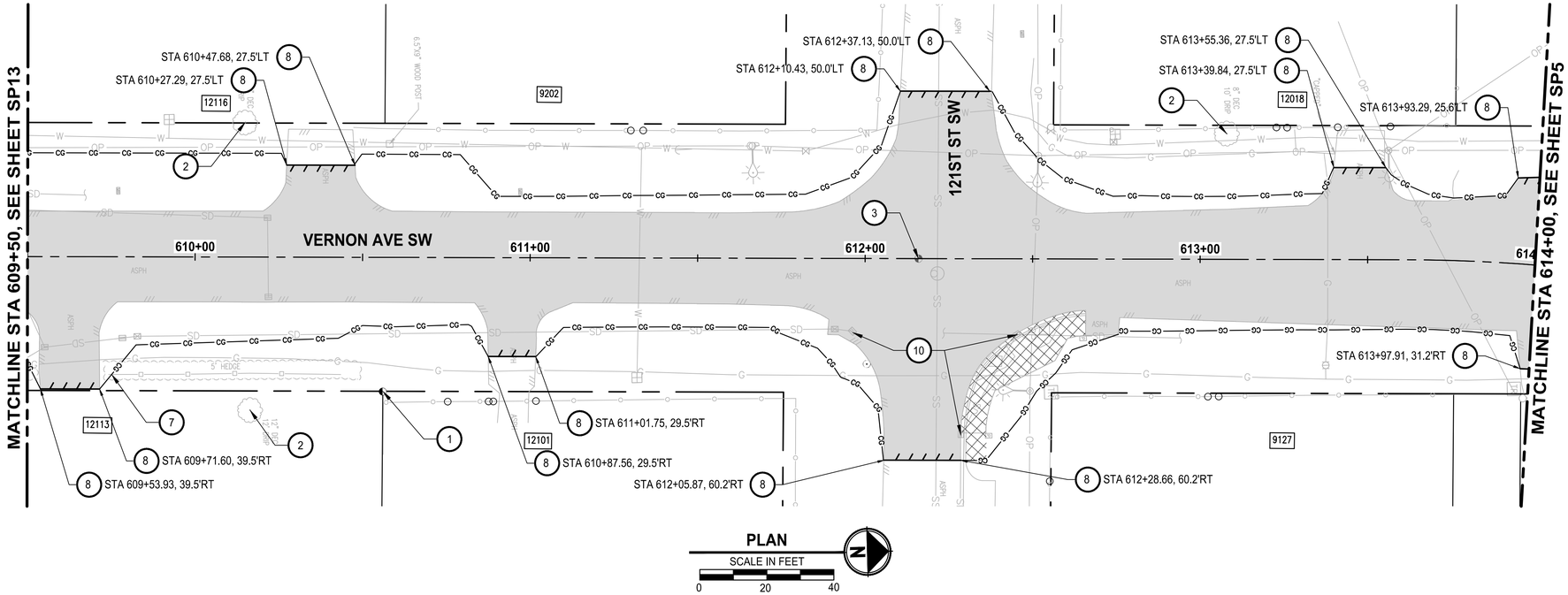


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## SITE PREPARATION NOTES

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PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99scs\CADD\DWG PLOTTED BY: taylakat DATE: Wednesday, January 26, 2022 12:37:16 PM LAYOUT: SP14

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DESIGNED C. GUTHRIE
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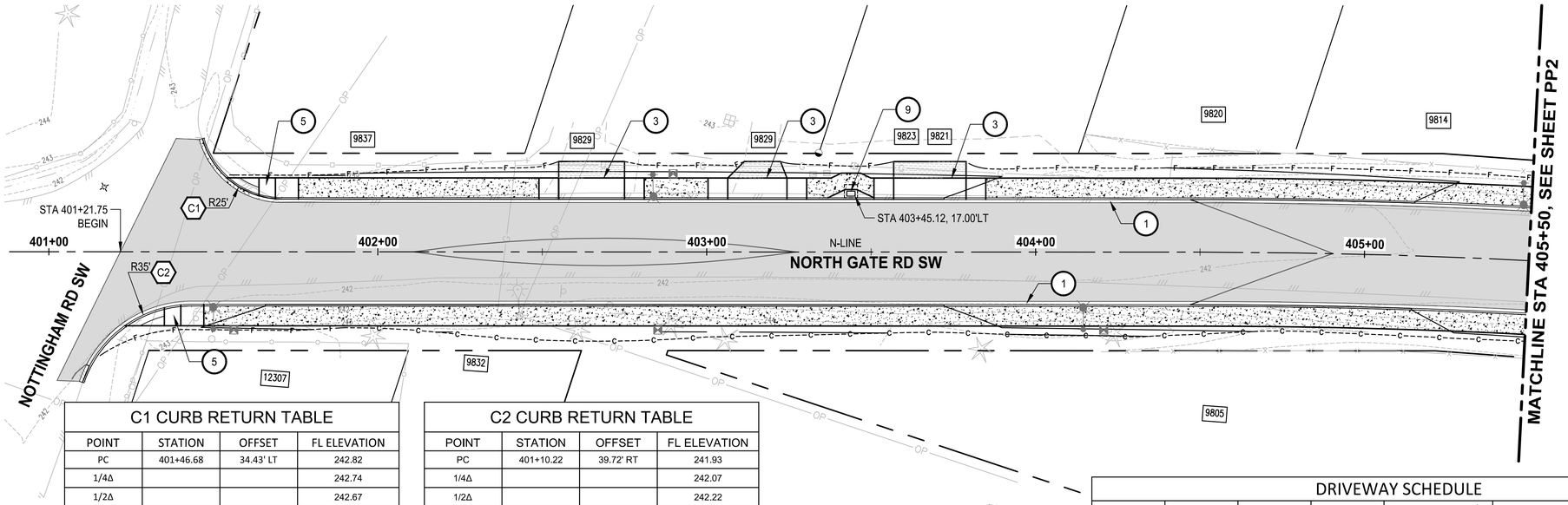
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# SITE PREPARATION VERNON AVE SW

DRAWING NO. 24 OF 169

SP14




## C1 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 401+46.68 | 34.43' LT | 242.82 |
| 1/4Δ | | | 242.74 |
| 1/2Δ | | | 242.67 |
| 3/4Δ | | | 242.62 |
| PT | 401+70.80 | 16.00' LT | 242.52 |
| RADIUS DATA | RADIUS=25' Δ=74.766° L=32.62' | | |

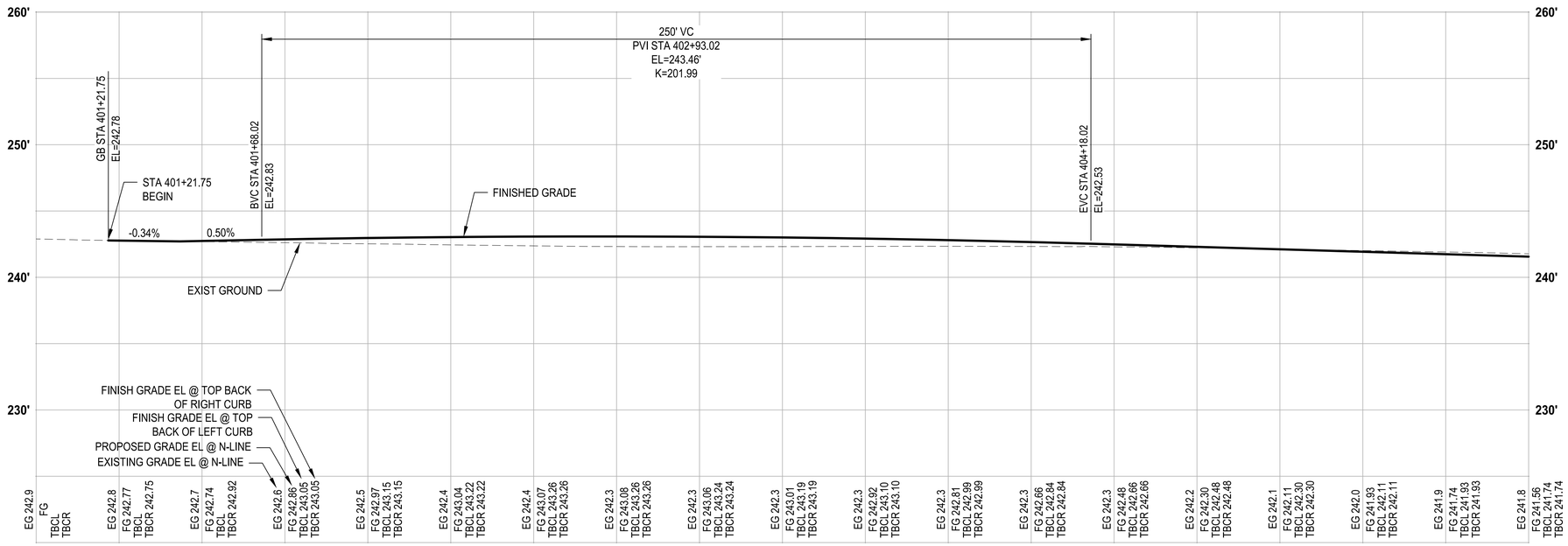
## C2 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 401+10.22 | 39.72' RT | 241.93 |
| 1/4Δ | | | 242.07 |
| 1/2Δ | | | 242.22 |
| 3/4Δ | | | 242.39 |
| PT | 401+43.36 | 16.0' RT | 242.39 |
| RADIUS DATA | RADIUS=35' Δ=71.206° L=43.50' | | |

**PLAN**
SCALE IN FEET
0 20 40

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9829 | 402+65 | LT | 20 | 5 / HMA | |
| 9829 | 403+15 | LT | 18 | 5 / HMA | |
| 9823 9821 | 403+68 | LT | 22 | 5 / HMA | |




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----c---- CUT
- ----f---- FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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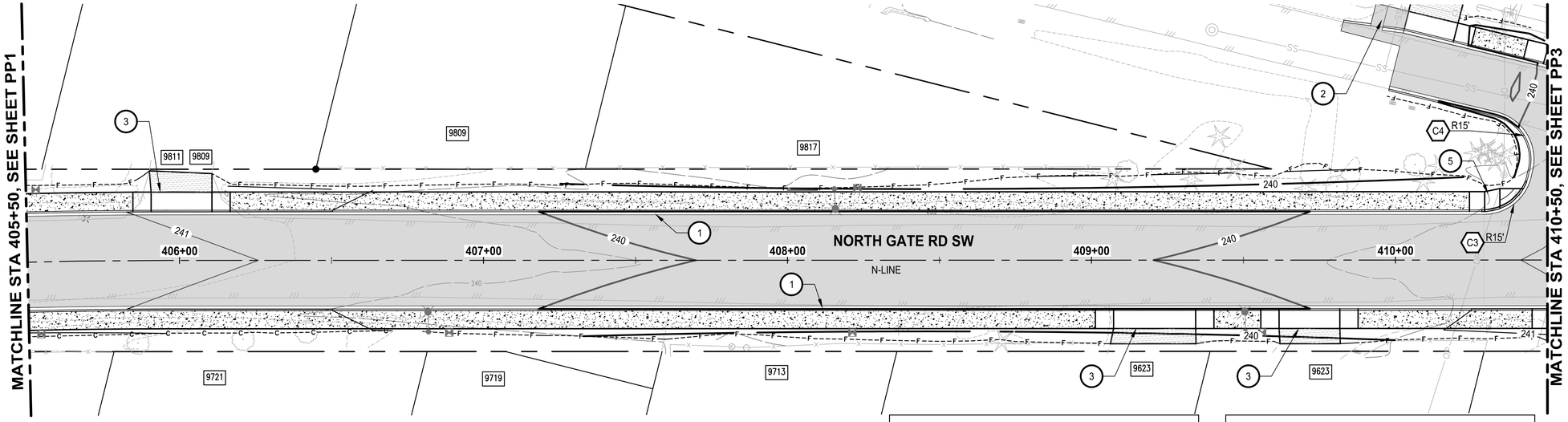
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE NORTH GATE RD SW

DRAWING NO. 25 OF 169
PP1

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Wednesday, January 26, 2022 2:18:57 PM LAYOUT: PP1

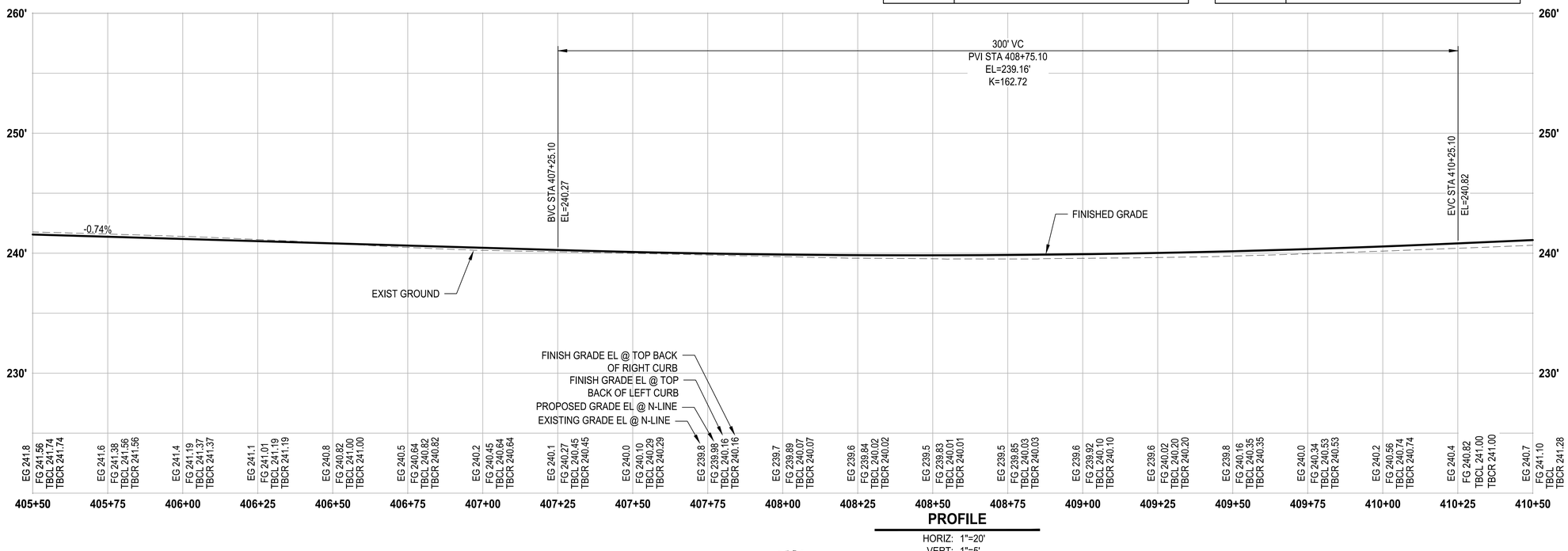



| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 9811 9809 | 406+01 | LT | 20 | 5 / CONC | TIE INTO EXISTING CONCRETE |
| 9623 | 409+21 | RT | 24 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9623 | 409+72 | RT | 20 | 5 / HMA | |
| 9621 | 410+11 | LT | 16 | 14 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

**PLAN**
SCALE IN FEET
0 20 40

| C3 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 410+29.08 | 16.00' LT | 240.53 |
| 1/4Δ | | | 240.83 |
| 1/2Δ | | | 240.58 |
| 3/4Δ | | | 240.54 |
| PT | 410+43.66 | 27.48' LT | 240.48 |
| RADIUS DATA | RADIUS=15' Δ=76.433° L=20.01' | | |

| C4 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 410+44.19 | 29.66' LT | 240.44 |
| 1/4Δ | | | 240.31 |
| 1/2Δ | | | 240.11 |
| 3/4Δ | | | 239.91 |
| PT | 410+33.13 | 47.76' LT | 239.71 |
| RADIUS DATA | RADIUS=15' Δ=90.000° L=23.562' | | |




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----c---- CUT
- ----f---- FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

DMITRIY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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bcra
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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

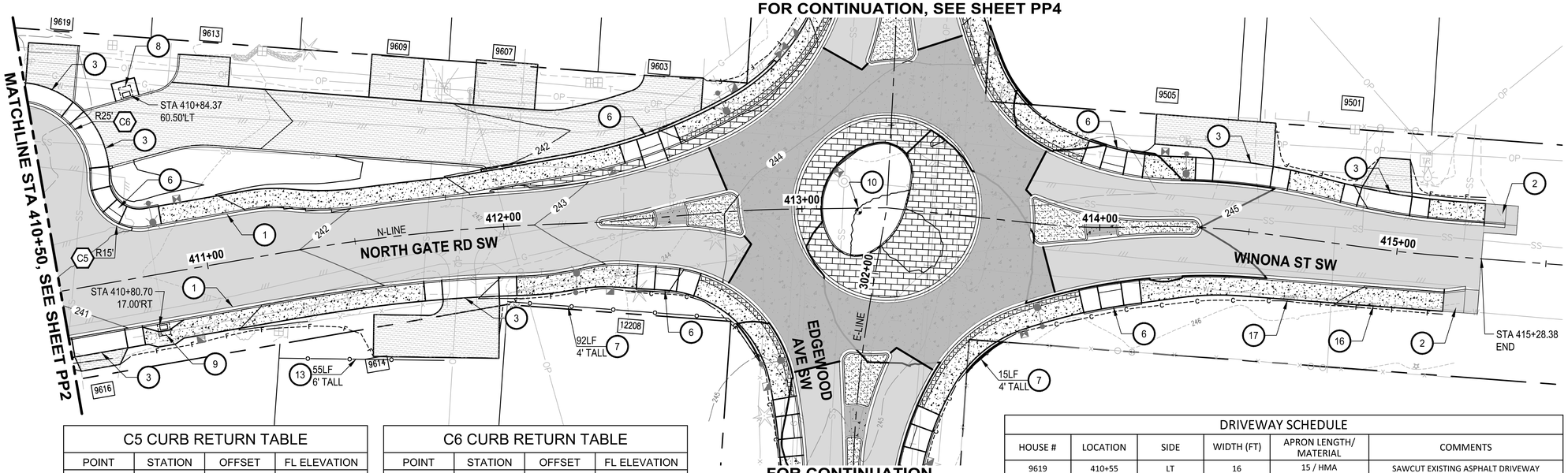
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE NORTH GATE RD SW

DRAWING NO. 26 OF 169
PP2

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 26, 2022 2:19:22 PM
LAYOUT: PP2

FOR CONTINUATION, SEE SHEET PP4




FOR CONTINUATION, SEE SHEET PP4

| C5 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 410+65.93 | 34.52' LT | 240.58 |
| 1/4Δ | | | 240.71 |
| 1/2Δ | | | 240.84 |
| 3/4Δ | | | 240.95 |
| PT | 410+80.52 | 16.00' LT | 241.12 |
| RADIUS DATA | RADIUS=15' Δ=103.567° L=27.11' | | |

| C6 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 410+65.98 | 34.69' LT | 240.58 |
| 1/4Δ | | | 240.44 |
| 1/2Δ | | | 240.29 |
| 3/4Δ | | | 240.18 |
| PT | 410+47.54 | 64.86' LT | 240.01 |
| RADIUS DATA | RADIUS=25' Δ=90.000° L=39.27' | | |

PLAN
SCALE IN FEET
0 20 40

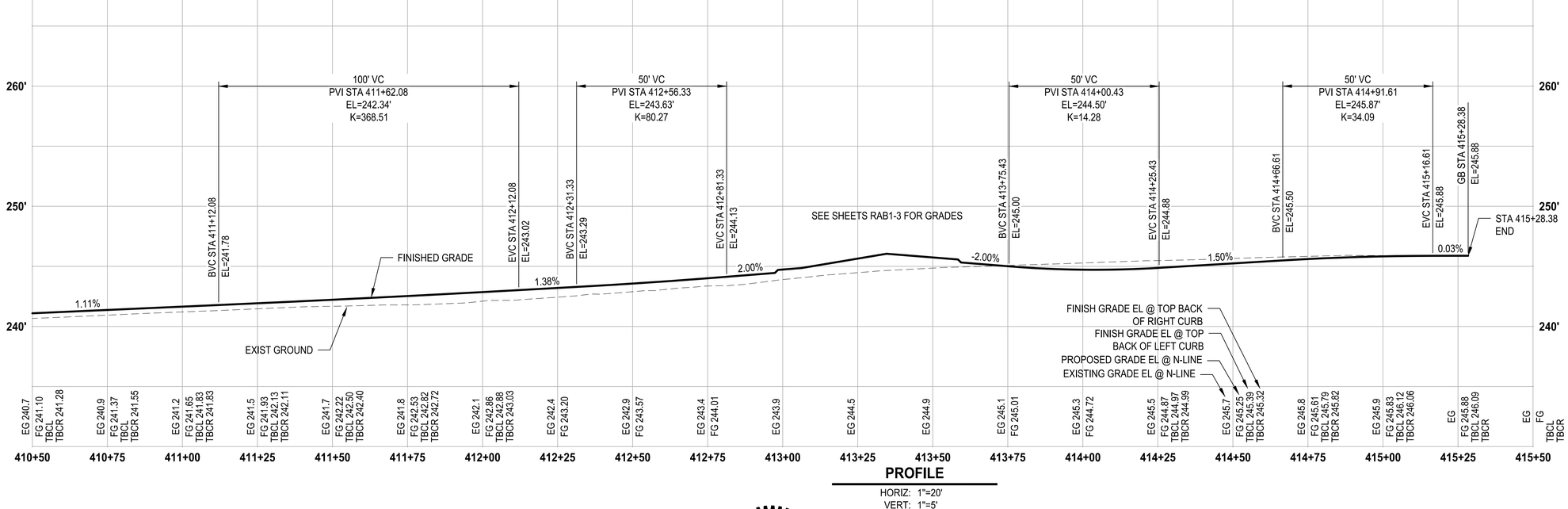
| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 9619 | 410+55 | LT | 16 | 15 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9616 | 410+60 | RT | 18 | 5 / HMA | |
| 9613 9609 9607 9603 | 411+08 | LT | 16 | HMA | REFER TO DRIVEWAY DETAILS |
| 9614 | 411+85 | RT | 18 | 20 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9505 | 414+46 | LT | 20 | 12 / HMA | REFER TO DRIVEWAY DETAILS |
| 9501 | 414+94 | LT | 18 | 9 / HMA | |

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Sucs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 2:19:48 PM
LAYOUT: PP3

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP01-05
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRII VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38996 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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WWW.PARAMETRIX.COM

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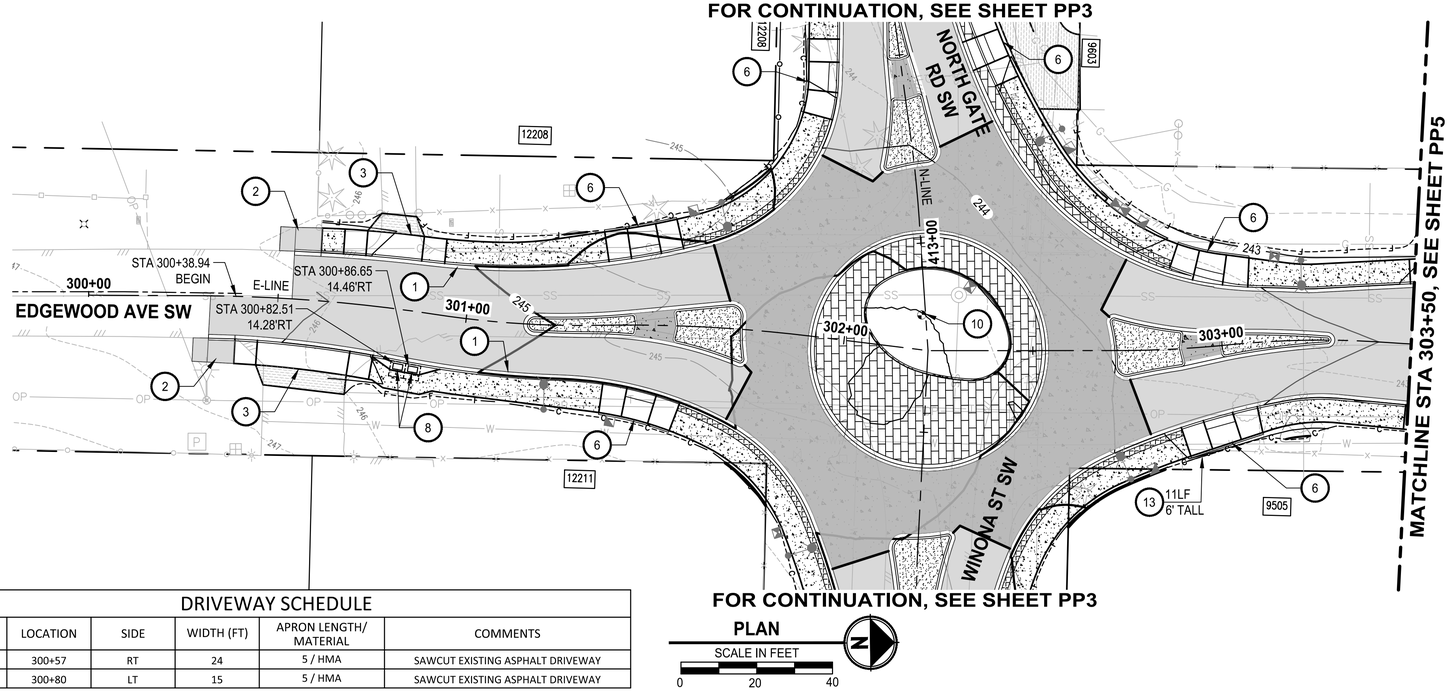
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

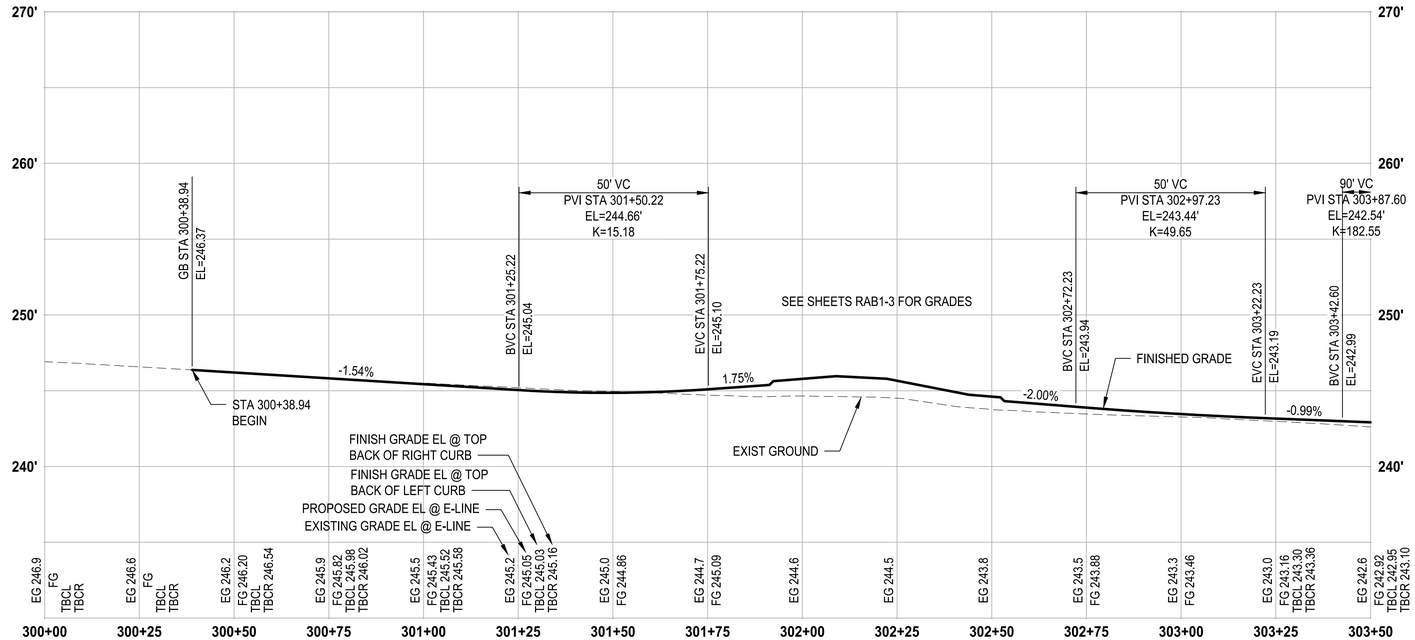
# ROADWAY PLAN & PROFILE NORTH GATE RD SW

DRAWING NO. 27 OF 169
PP3

LAYOUT: PP4 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylorat DATE: Wednesday, January 26, 2022 2:20:14 PM




| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 12211 | 300+57 | RT | 24 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 12208 | 300+80 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SISLIKOV STATE OF WASHINGTON 36390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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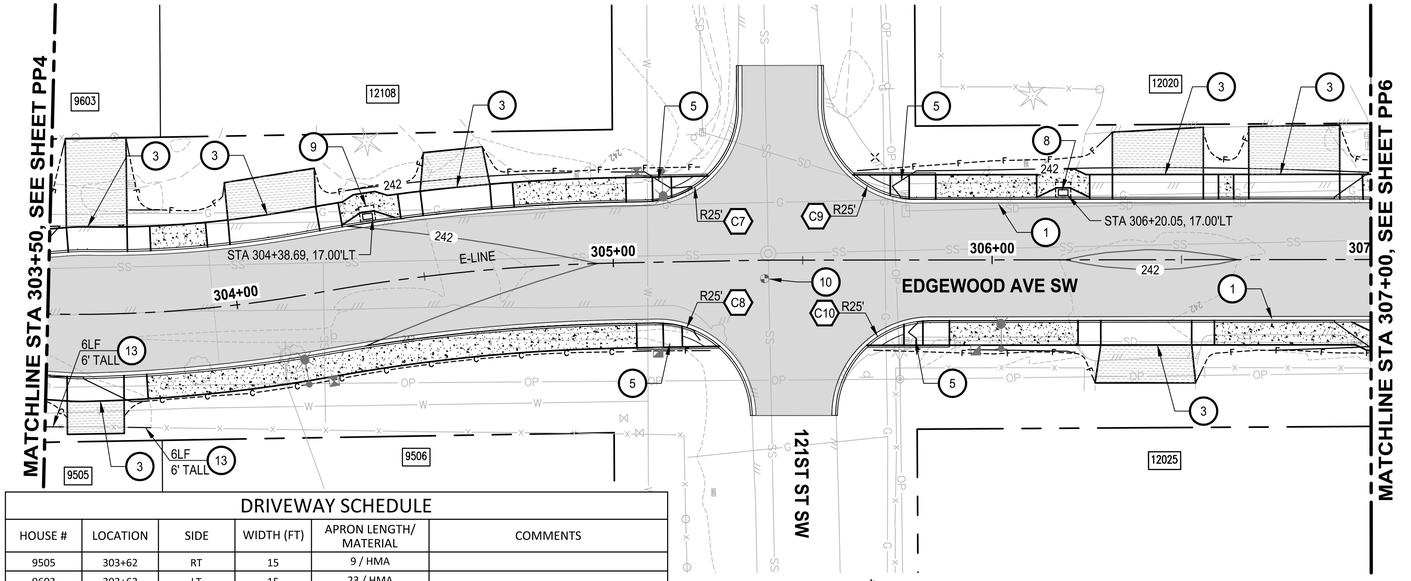
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE EDGEWOOD AVE SW

DRAWING NO.
28 OF 169
PP4



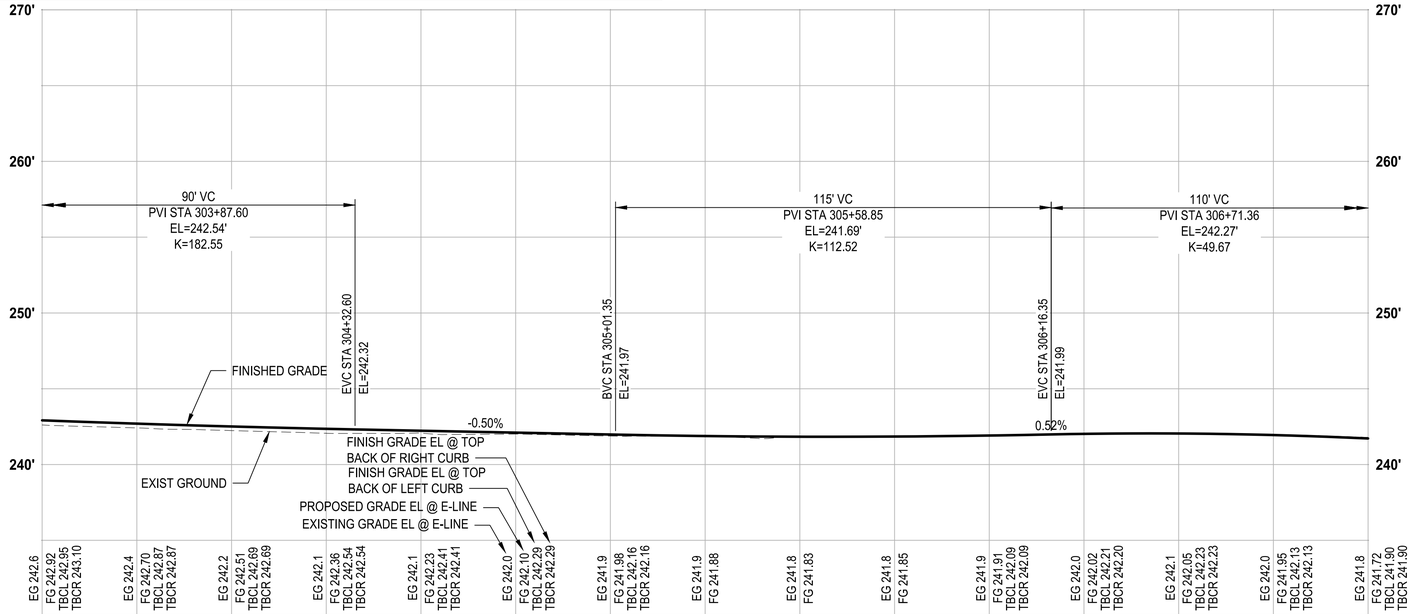

## PLAN

SCALE IN FEET

0 20 40

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9505 | 303+62 | RT | 15 | 9 / HMA | |
| 9603 | 303+63 | LT | 15 | 23 / HMA | |
| 12108 | 304+12 | LT | 24 | 12 / HMA | |
| 12108 | 304+60 | LT | 18 | 12 / HMA | |
| 12025 | 306+41 | RT | 24 | 10 / HMA | |
| 12020 | 306+44 | LT | 24 | 12 / HMA | |
| 12020 | 306+80 | LT | 24 | 13 / HMA | |




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## C7 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 305+08.79 | 16.00' LT | 241.62 |
| 1/4Δ | | | 241.56 |
| 1/2Δ | | | 241.40 |
| 3/4Δ | | | 241.30 |
| PT | 305+33.78 | 40.56' LT | 241.21 |
| RADIUS DATA | RADIUS=25' Δ=88.981° L=38.825' | | |

## C8 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 305+10.90 | 16.00' RT | 241.61 |
| 1/4Δ | | | 241.51 |
| 1/2Δ | | | 241.39 |
| 3/4Δ | | | 241.40 |
| PT | 305+35.90 | 40.93' RT | 241.43 |
| RADIUS DATA | RADIUS=25' Δ=89.850° L=39.20' | | |

## C9 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 305+55.06 | 41.00' LT | 241.16 |
| 1/4Δ | | | 241.25 |
| 1/2Δ | | | 241.34 |
| 3/4Δ | | | 241.45 |
| PT | 305+80.06 | 16.00' LT | 241.99 |
| RADIUS DATA | RADIUS=25' Δ=90.00° L=39.27' | | |

## C10 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 305+83.64 | 16.00' RT | 241.54 |
| 1/4Δ | | | 241.43 |
| 1/2Δ | | | 241.33 |
| 3/4Δ | | | 241.29 |
| PT | 305+58.64 | 41.00' RT | 241.31 |
| RADIUS DATA | RADIUS=25' Δ=90.00° L=39.27' | | |

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-PP01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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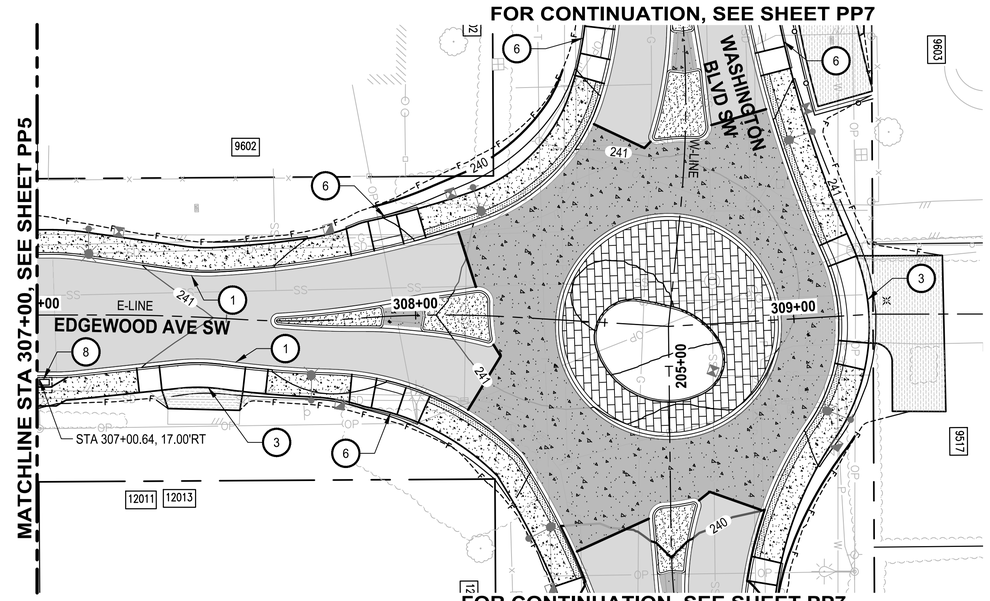
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE EDGEWOOD AVE SW

DRAWING NO. 29 OF 169
PP5


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylorkat DATE: Wednesday, January 26, 2022 2:20:39 PM LAYOUT: PP5

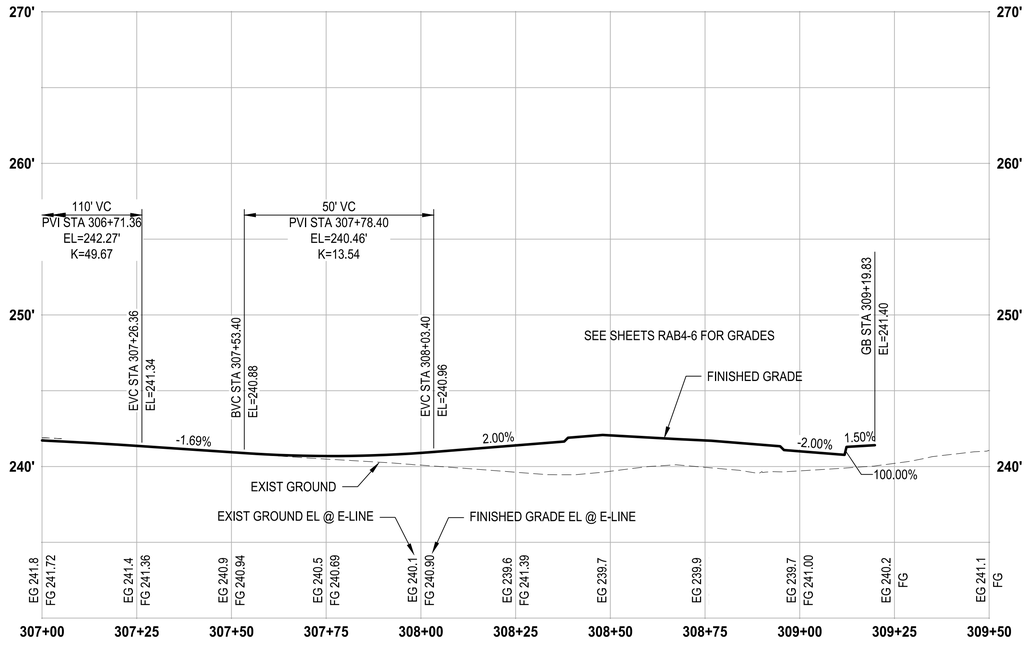



PLAN

SCALE IN FEET

0 20 40

| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 12011 12013 | 307+44 | RT | 21 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Thursday, January 27, 2022 9:52:05 AM
LAYOUT: PP6

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP06-10
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRIY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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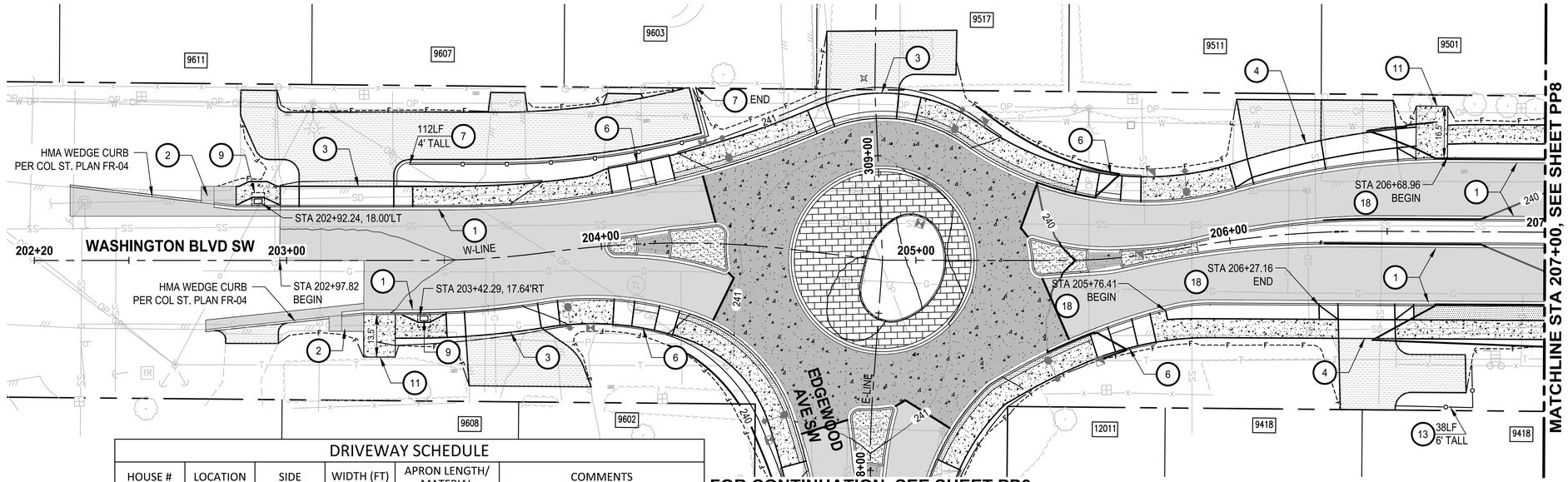
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON


# ROADWAY PLAN & PROFILE EDGEWOOD AVE SW

DRAWING NO. 30 OF 169

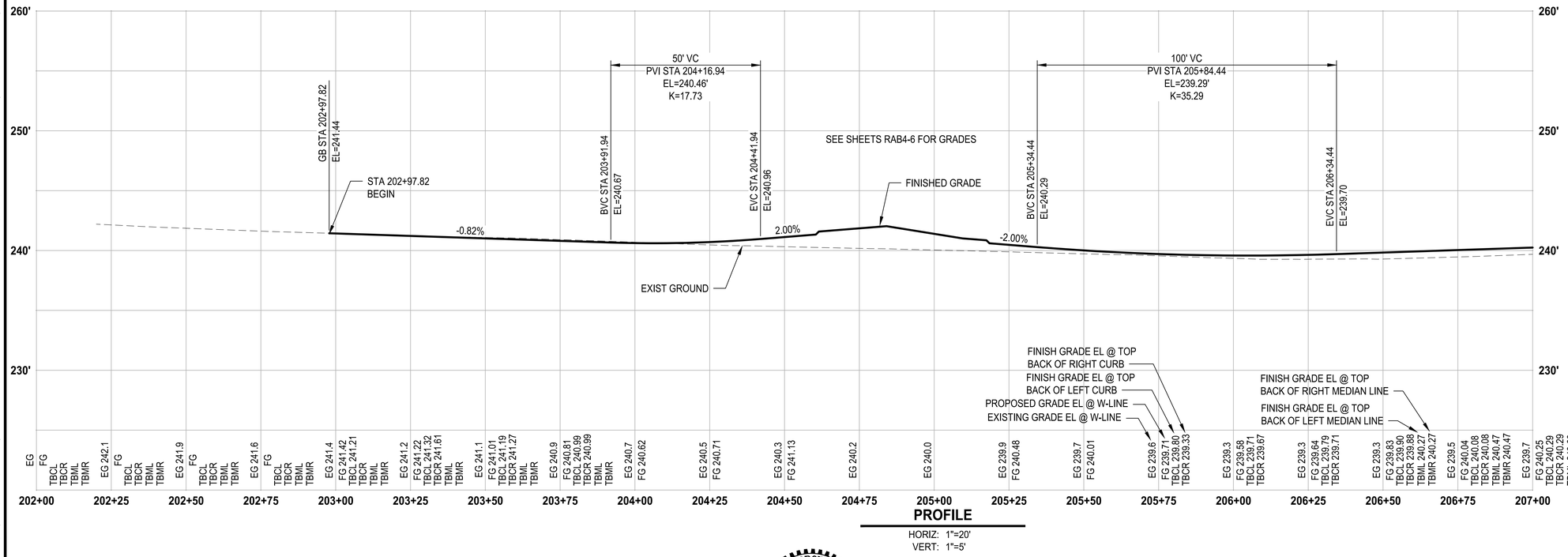
PP6




| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 9611 9607 9603 | 203+19 | LT | 30 | 23 / HMA | REFER TO DRIVEWAY DETAILS |
| 9608 9602 | 203+74 | RT | 24 | 18 / HMA | REFER TO DRIVEWAY DETAILS |
| 9517 | 204+77 | LT | 21 | 20 / HMA | REFER TO DRIVEWAY DETAILS |
| 9511 | 206+20 | LT | 22 | 16 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9418 | 206+43 | RT | 18 | 22 / HMA | REFER TO DRIVEWAY DETAILS |
| 9501 | 206+43 | LT | 24 | 11 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

**PLAN**

SCALE IN FEET 0 20 40




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

DMITRIY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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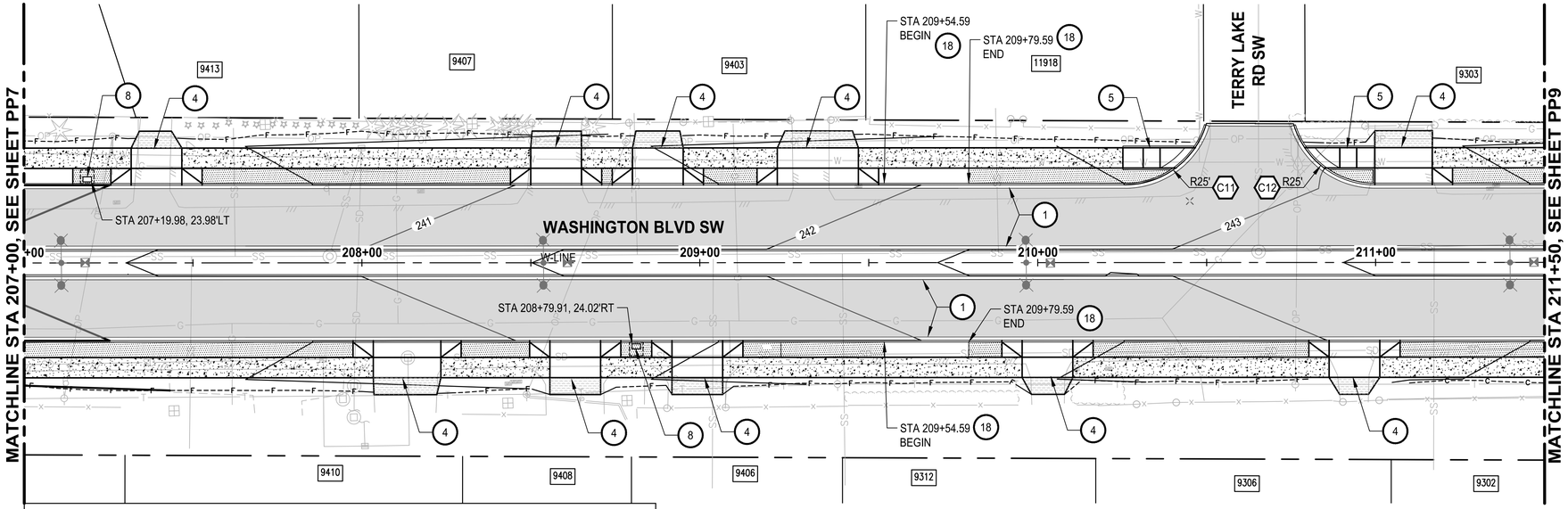
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 31 OF 169
PP7


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Thursday, January 27, 2022 9:52:36 AM
LAYOUT: PP7




## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9413 | 207+39 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9410 | 208+13 | RT | 20 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9407 | 208+57 | LT | 15 | 5 / HMA | |
| 9408 | 208+63 | RT | 15 | 5 / CONC | SAWCUT EXSITING CONCRETE |
| 9403 | 208+88 | LT | 15 | 5 / HMA | |
| 9406 | 208+99 | RT | 15 | 5 / CONC | SAWCUT EXSITING CONCRETE |
| 9403 | 209+32 | LT | 15 | 5 / HMA | |
| 9312 | 210+03 | RT | 15 | 5 / HMA | SAWCUT EXSITING CONCRETE |
| 9306 | 210+94 | RT | 15 | 5 / HMA | |
| 9303 | 211+08 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

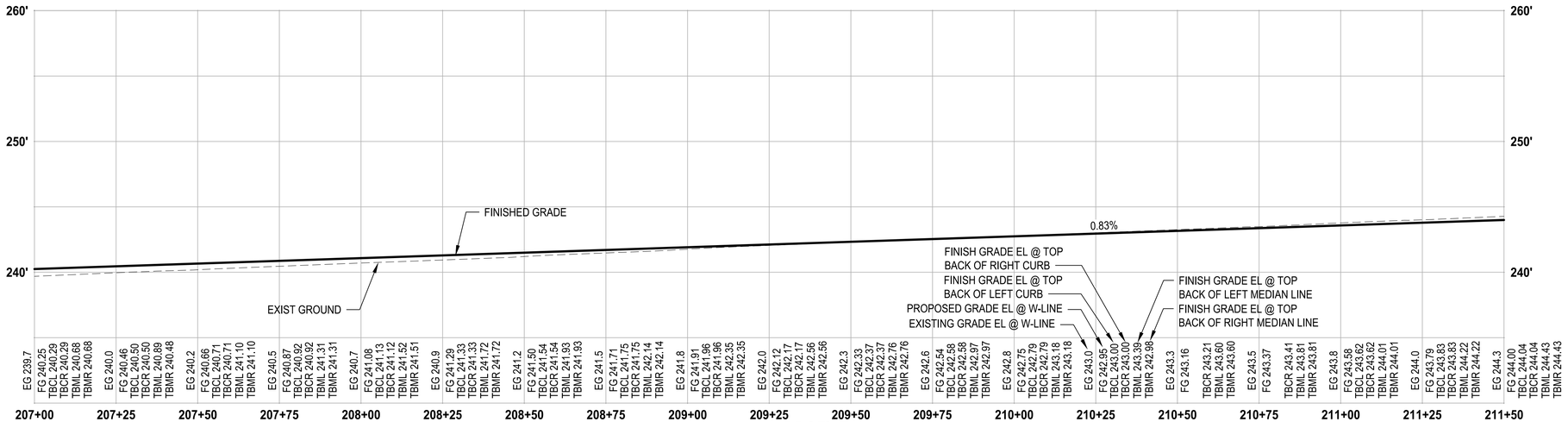
**PLAN**
SCALE IN FEET
0 20 40
N

## C11 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 210+25.90 | 23.00' LT | 242.51 |
| 1/4Δ | | | 242.67 |
| 1/2Δ | | | 242.72 |
| 3/4Δ | | | 242.65 |
| PT | 210+50.90 | 48.33' LT | 242.61 |
| RADIUS DATA | RADIUS=25' Δ=90.780° L=39.61' | | |

## C12 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 210+74.72 | 47.53' LT | 242.73 |
| 1/4Δ | | | 242.83 |
| 1/2Δ | | | 242.97 |
| 3/4Δ | | | 243.06 |
| PT | 210+99.72 | 23.00' LT | 243.14 |
| RADIUS DATA | RADIUS=25' Δ=88.943° L=38.81' | | |




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED D. SULIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRII VICTOROVICH SULIKOV STATE OF WASHINGTON 38396 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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bcra
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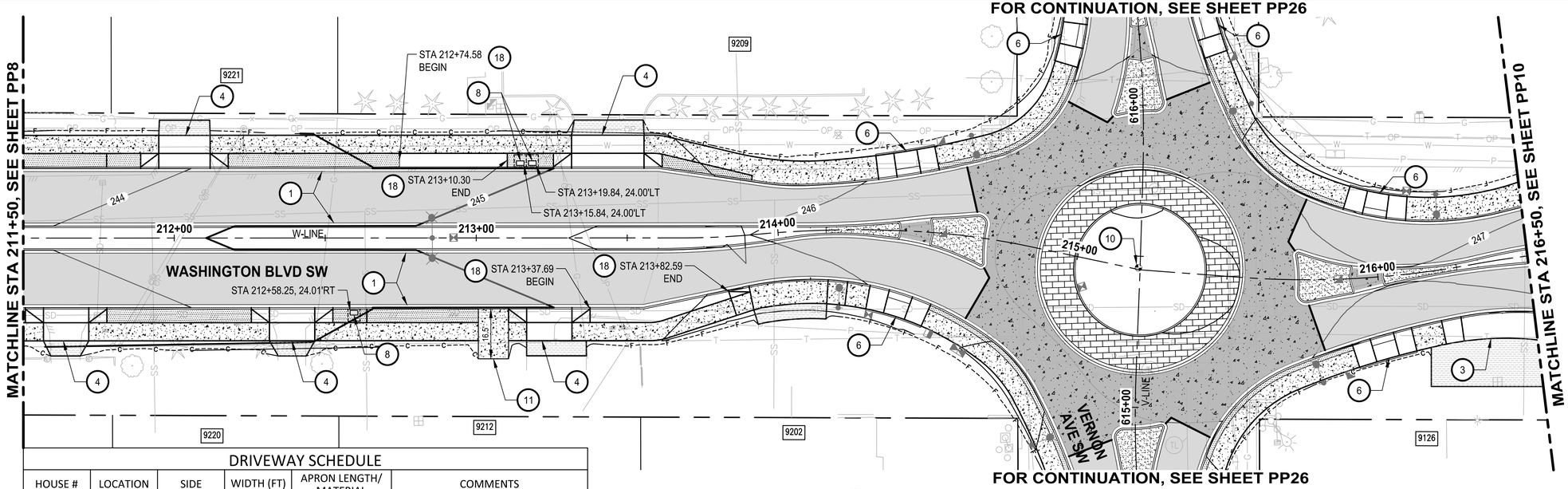
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 32 OF 169
PP8

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Sucs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 27, 2022 9:53:08 AM LAYOUT: PP8




FOR CONTINUATION, SEE SHEET PP26

PLAN

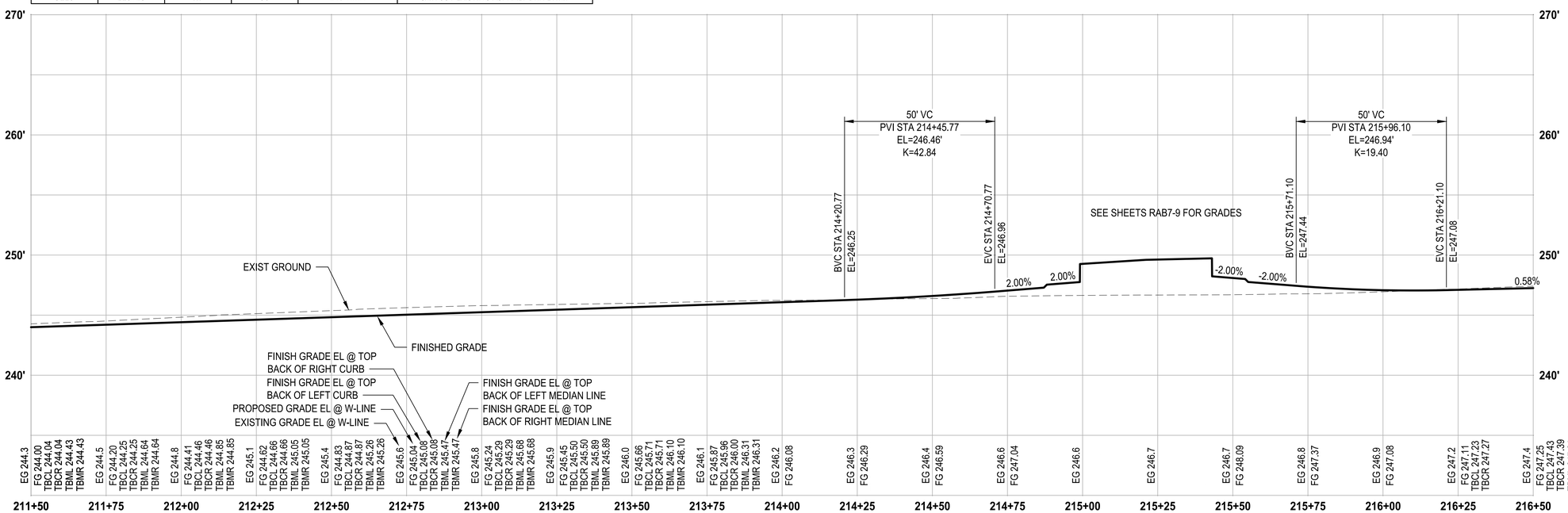
SCALE IN FEET

0 20 40

N

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9302 | 211+64 | RT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9221 | 212+04 | LT | 17 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9220 | 212+39 | RT | 15 | 5 / HMA | |
| 9212 | 213+27 | RT | 24 | 5 / CONC | |
| 9209 | 213+44 | LT | 24 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9126 | 216+40 | RT | 30 | 14 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-PP06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

DMITRIY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

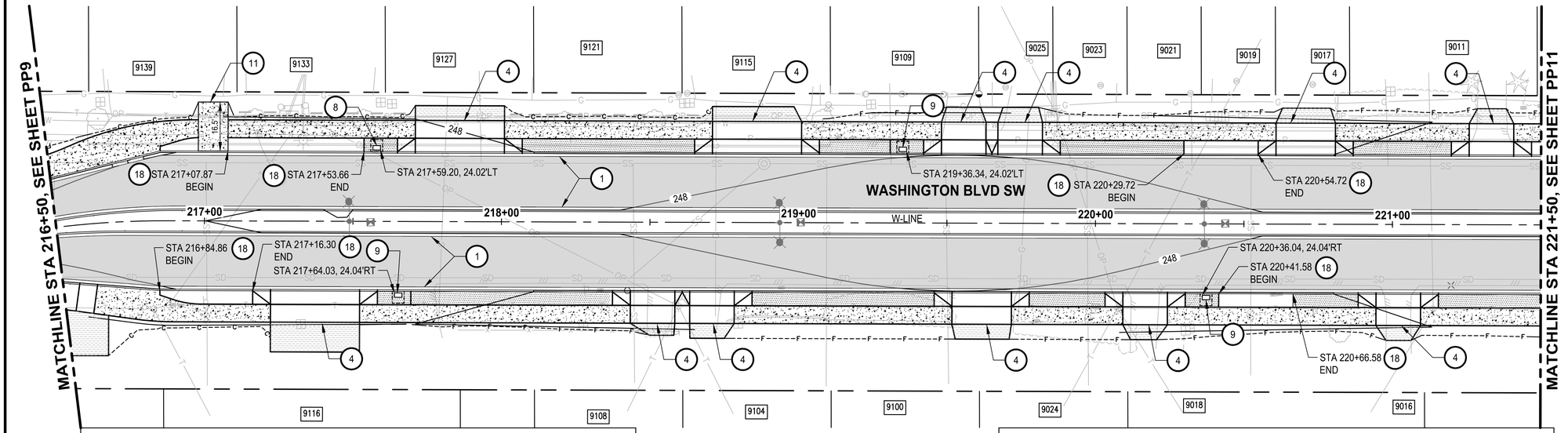

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 33 OF 169

PP9


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svca\CADD\DWG PLOTTED BY: toylokat DATE: Thursday, January 27, 2022 11:25:57 AM
LAYOUT: PP9



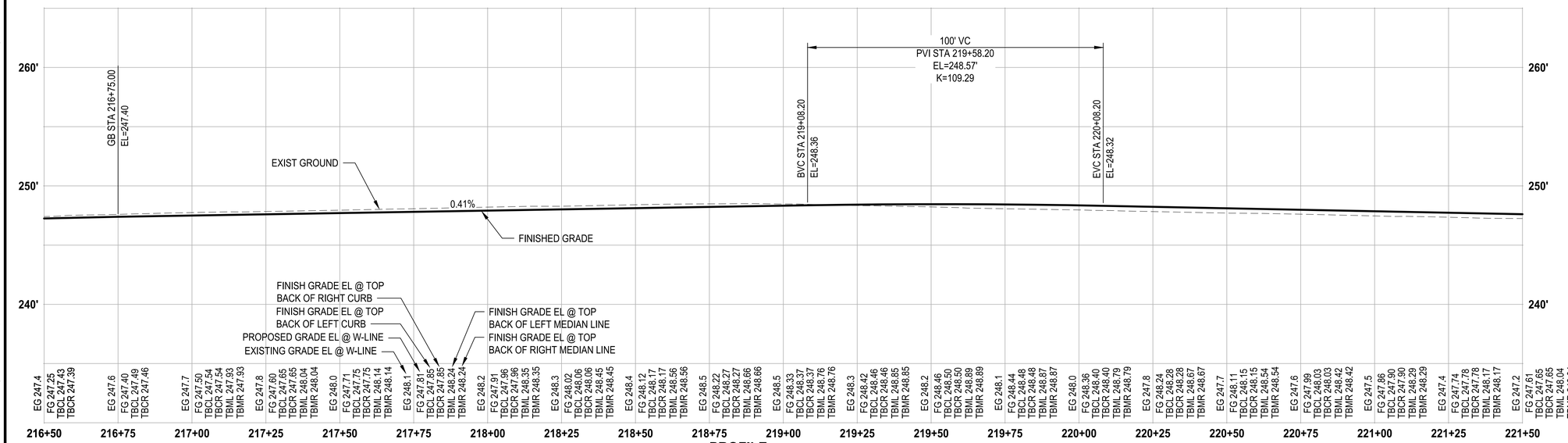

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9116 | 217+37 | RT | 30 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9139 9133 9127 | 217+86 | LT | 30 | 5 / CONC | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9108 | 218+50 | RT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9104 | 218+71 | RT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9121 9115 | 218+86 | LT | 30 | 5 / CONC | SAWCUT EXISTING ASPHALT DRIVEWAY |

PLAN
SCALE IN FEET
0 20 40
N

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9109 | 219+55 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9100 9024 | 219+62 | RT | 20 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9025 9023 9021 | 219+74 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9018 | 220+17 | RT | 15 | 5 / HMA | |
| 9019 9017 | 220+71 | LT | 20 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9016 | 221+02 | RT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9011 | 221+33 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----c---- CUT
- ----f---- FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP06-10
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 34 OF 169
PP10


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 9:54:11 AM
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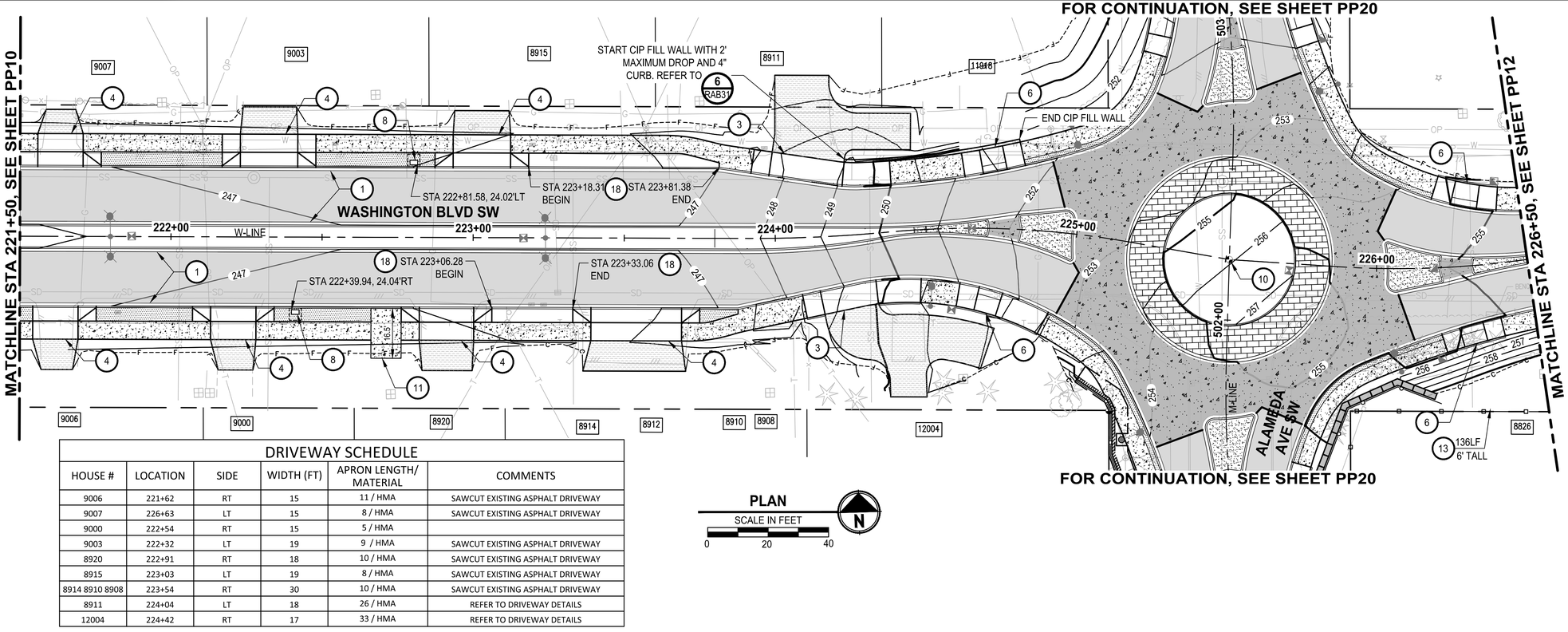
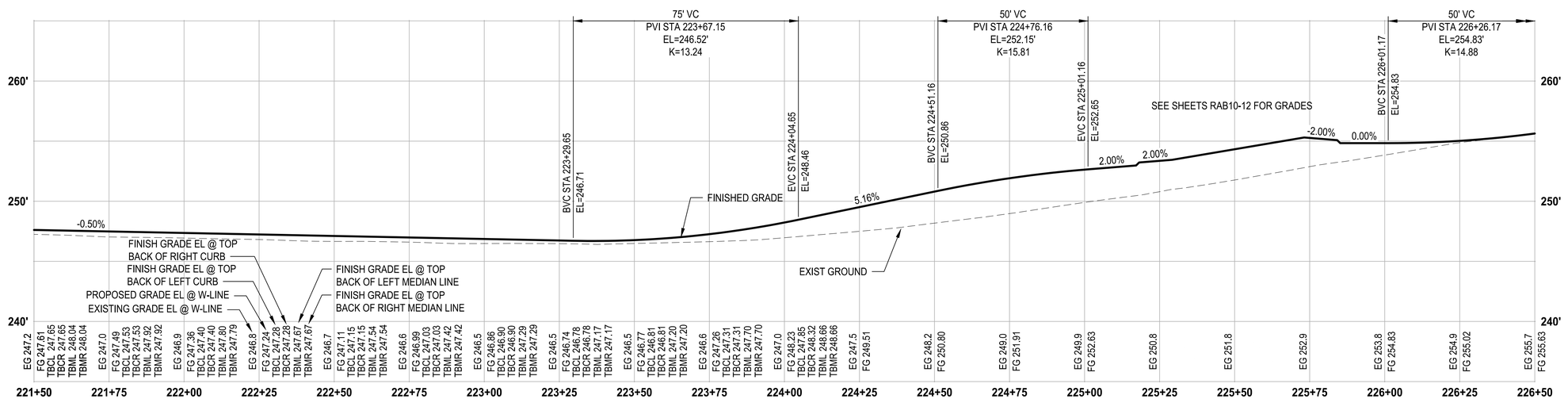



## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9006 | 221+62 | RT | 15 | 11 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9007 | 226+63 | LT | 15 | 8 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 9000 | 222+54 | RT | 15 | 5 / HMA | |
| 9003 | 222+32 | LT | 19 | 9 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8920 | 222+91 | RT | 18 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8915 | 223+03 | LT | 19 | 8 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8914 8910 8908 | 223+54 | RT | 30 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8911 | 224+04 | LT | 18 | 26 / HMA | REFER TO DRIVEWAY DETAILS |
| 12004 | 224+42 | RT | 17 | 33 / HMA | REFER TO DRIVEWAY DETAILS |

**PLAN**
SCALE IN FEET
0 20 40
N




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——-----c—— CUT
- ——-----f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP11-15
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRI VICTOROVICH SUSLIKOV — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022

Parametrix — ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
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bcra
2106 PACIFIC AVE, SUITE 300 TACOMA, WA 98402 P 253.627.4367 WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 35 OF 169
PP11

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 27, 2022 10:07:32 AM
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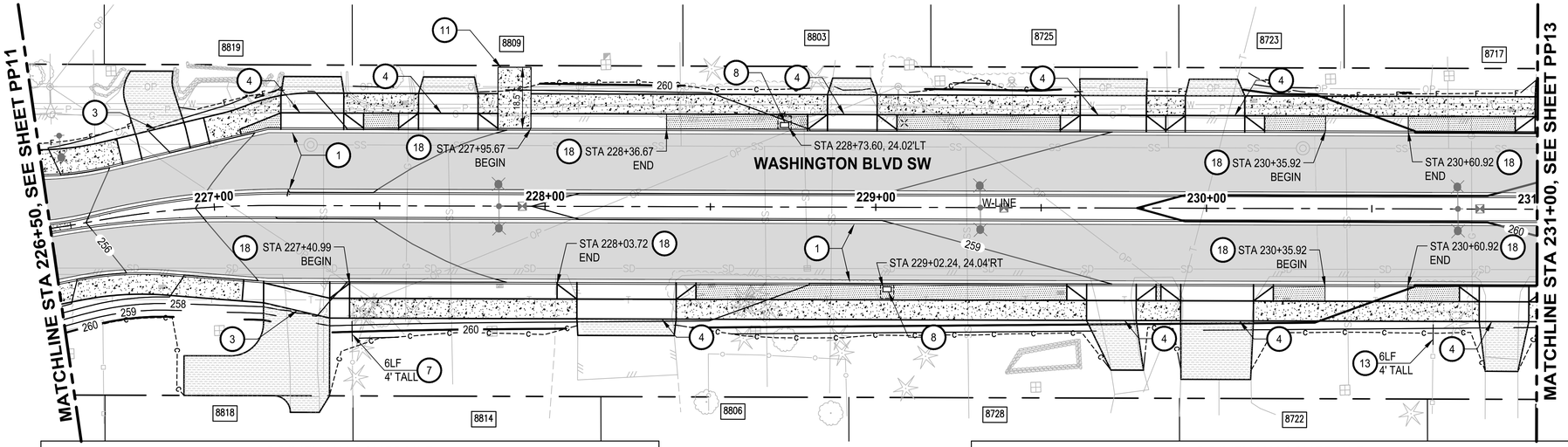



## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 8819 | 226+87 | LT | 15 | 15 / HMA | REFER TO DRIVEWAY DETAILS |
| 8818 | 227+27 | RT | 15 | 31 / HMA | REFER TO DRIVEWAY DETAILS |
| 8819 | 227+29 | LT | 19 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8809 | 227+70 | LT | 18 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8806 | 228+24 | RT | 30 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8803 | 228+93 | LT | 15 | 5 / HMA | |

**PLAN**

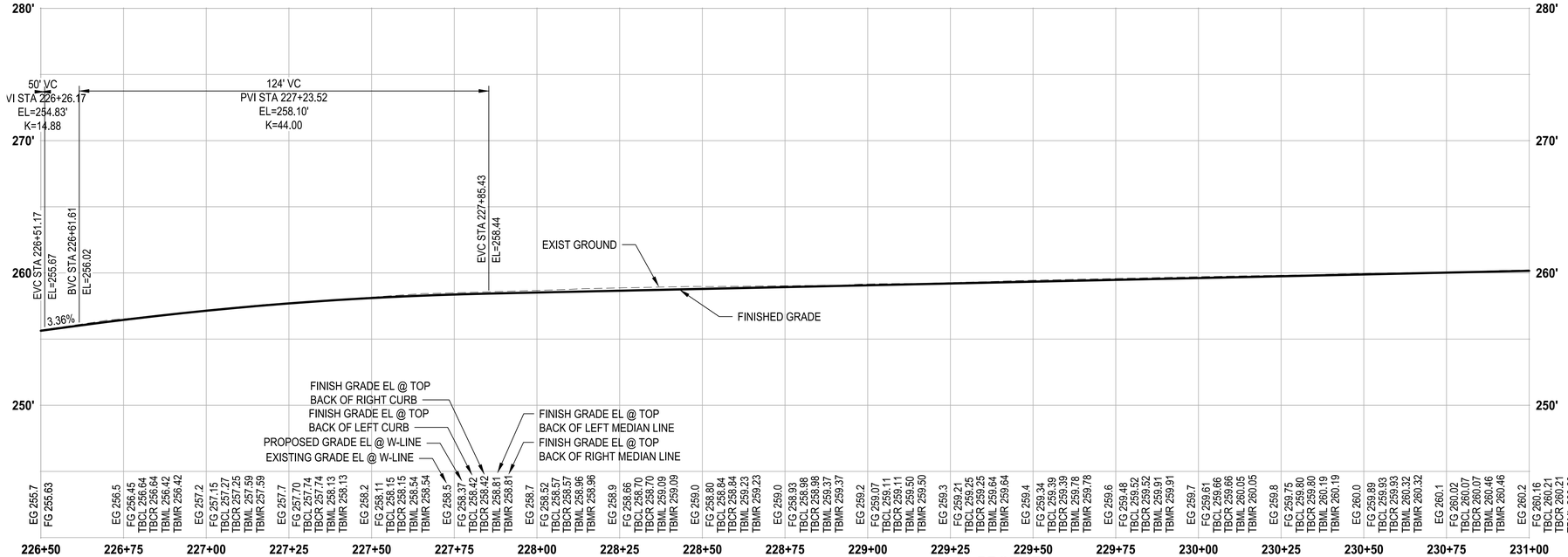
SCALE IN FEET

0 20 40

N

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 8728 | 229+71 | RT | 15 | 15 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8725 | 229+71 | LT | 20 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8723 | 230+02 | LT | 18 | 5 / HMA | |
| 8722 | 230+03 | RT | 22 | 15 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8716 | 230+90 | RT | 15 | 15 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

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PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 10:07:54 AM
LAYOUT: PP12


| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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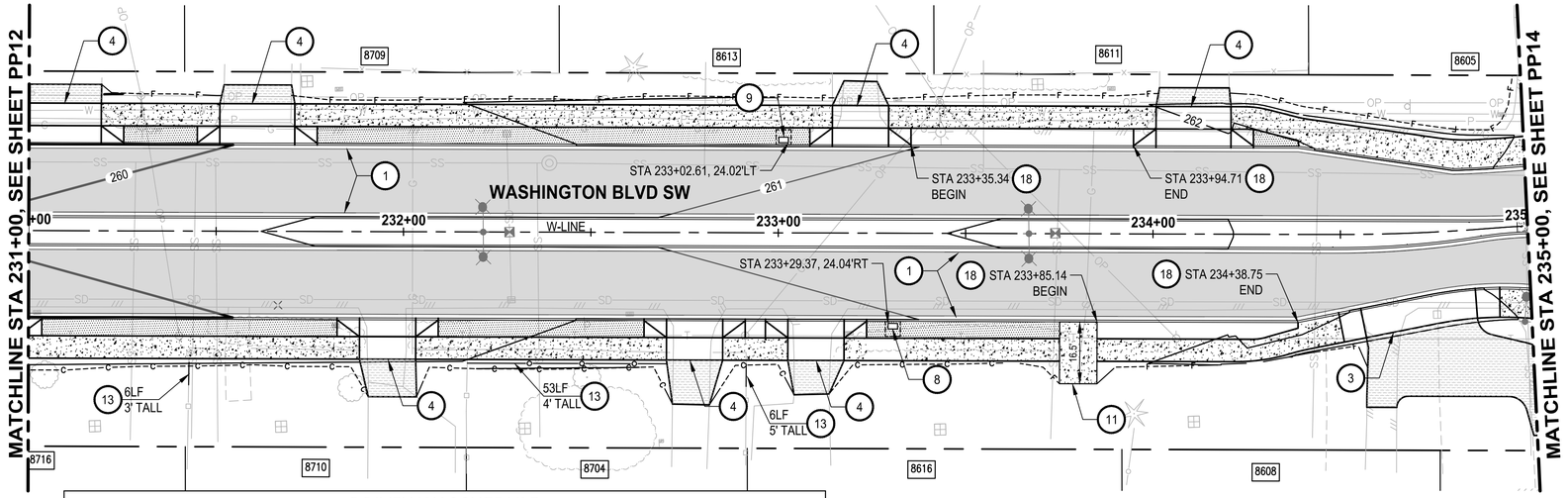
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 36 OF 169

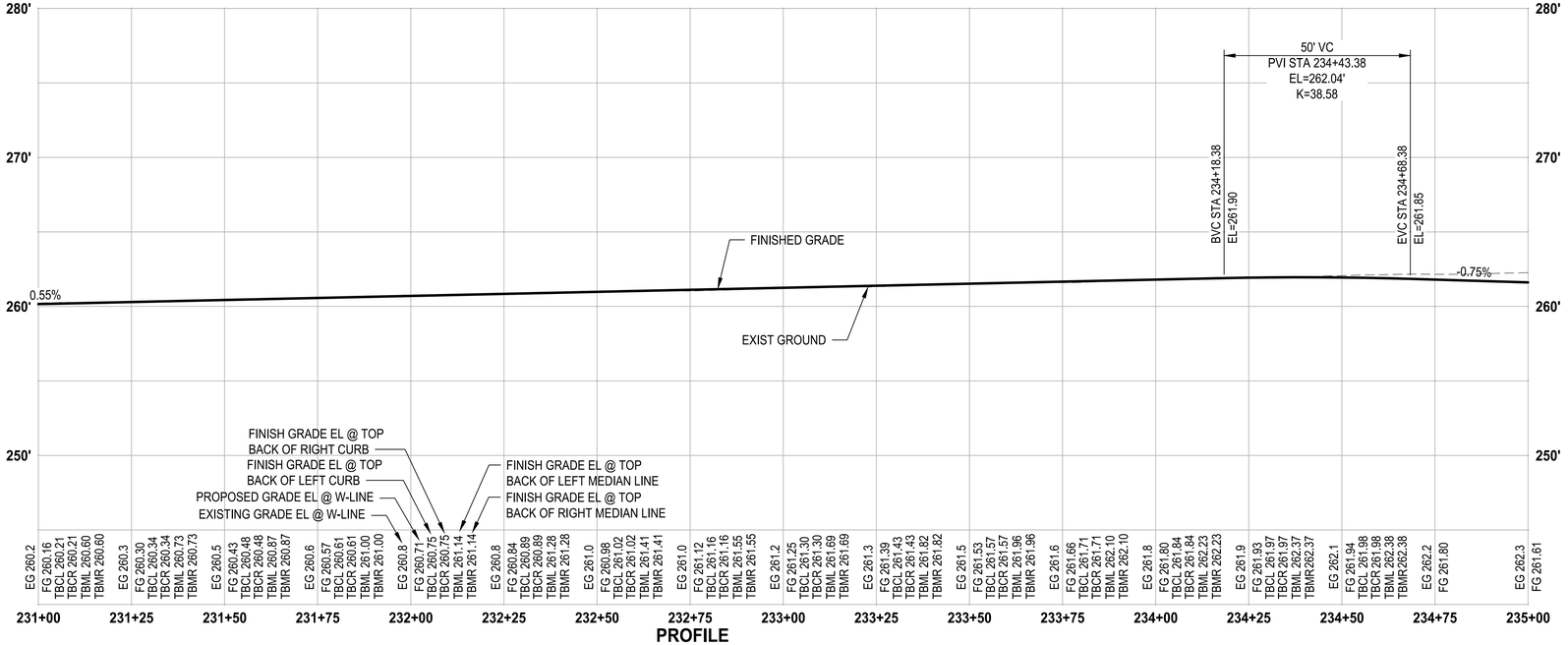
PP12




## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 8717 | 231+09 | LT | 20 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8709 | 231+61 | LT | 20 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8710 | 231+96 | RT | 15 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8704 | 232+77 | RT | 15 | 12 / HMA | TIE INTO EXISTING CONC |
| 8616 | 233+10 | RT | 15 | 8 / HMA | TIE INTO EXISTING CONC |
| 8613 | 233+22 | LT | 15 | 7 / CONC | SAWCUT EXISTING CONCRETE |
| 8611 | 234+10 | LT | 20 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8608 12004 | 234+69 | RT | 30 | 40 / HMA | REFER TO DRIVEWAY DETAILS |

**PLAN**
SCALE IN FEET
0 20 40
N




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
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9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
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15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
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18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
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- CRUSHED SURFACING TOP COURSE
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- ——-----f—— FILL

## PROFILE NOTES

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| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED D. SUSIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP11-15
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRY VICTOROVIC SUSIKOV — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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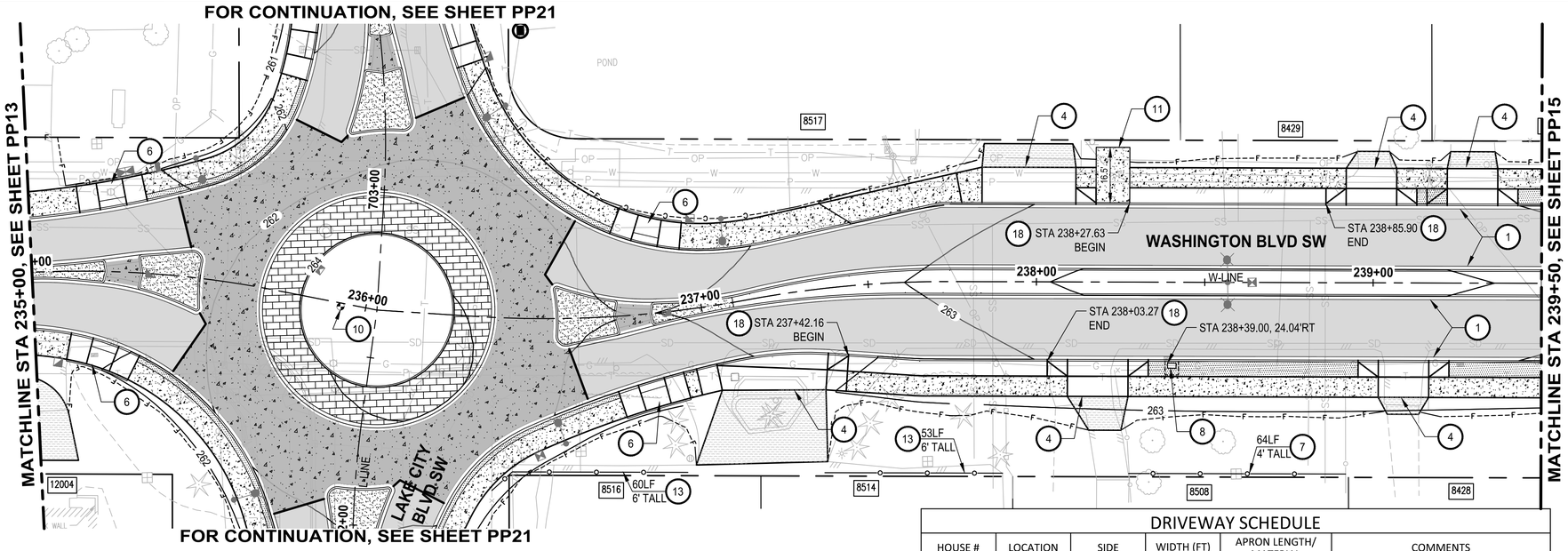
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 37 OF 169
PP13

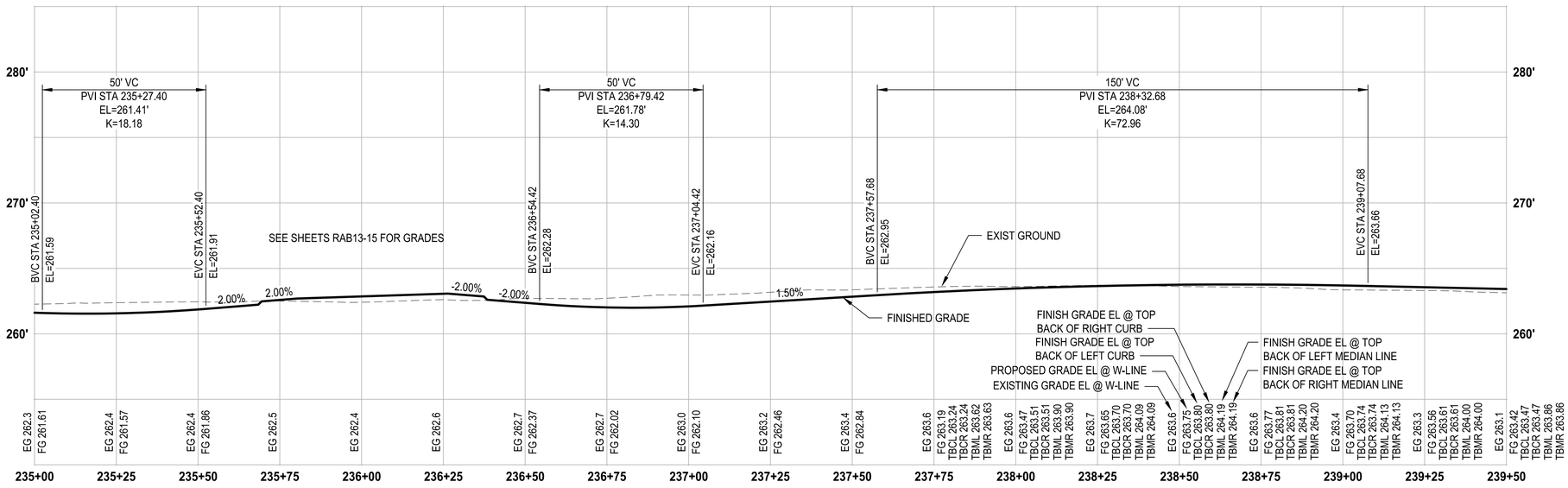

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 10:08:15 AM
LAYOUT: PP13




PLAN
SCALE IN FEET
0 20 40

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 8516, 8514 | 237+36 | RT | 30 | 22 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8517 | 237+96 | LT | 30 | 7 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8508 | 238+13 | RT | 18 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8429 | 238+99 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8428 | 239+09 | RT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8427 | 239+29 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP11-15
JOB No. 214-3047-013
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CITY OF LAKEWOOD WA #1996

DMITRI VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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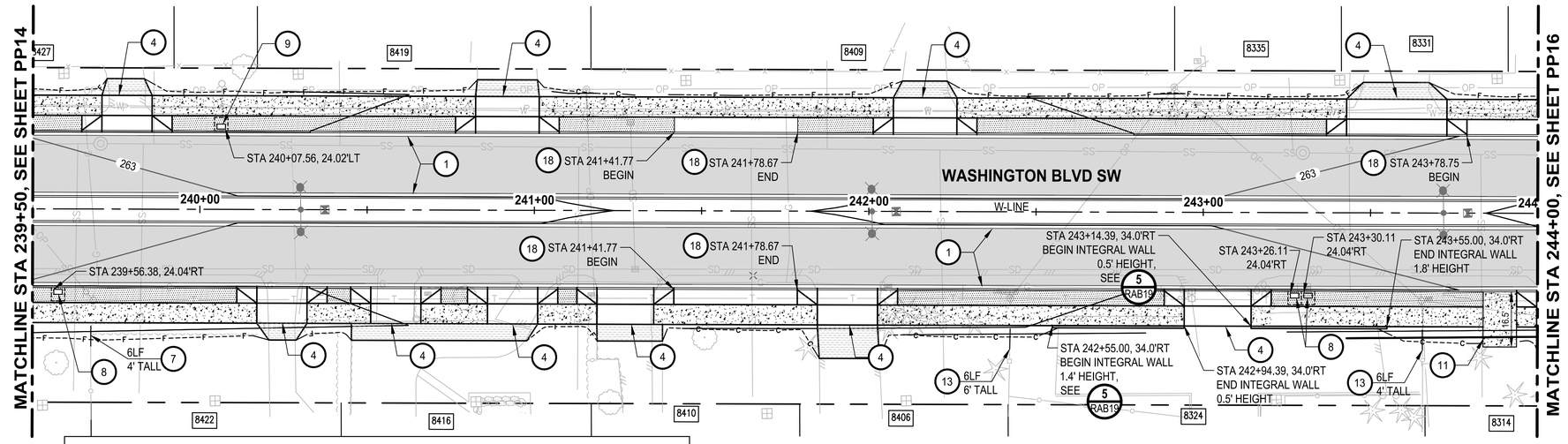
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 38 OF 169
PP14

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 10:08:38 AM
LAYOUT: PP14




## DRIVEWAY SCHEDULE

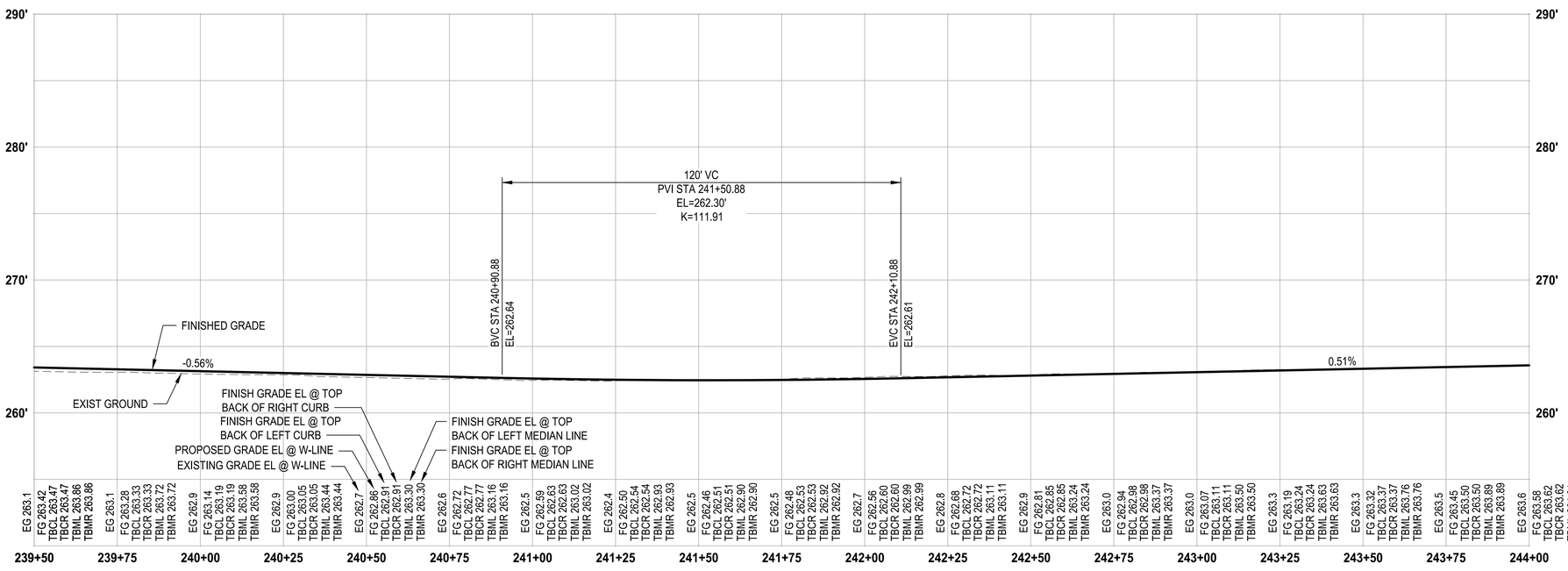
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 8427 | 239+78 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8422 | 240+24 | RT | 15 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8416 | 240+58 | RT | 15 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8419 | 240+92 | LT | 19 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8416 | 240+93 | RT | 15 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8410 | 241+27 | RT | 17 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8406 | 241+93 | RT | 18 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8409 | 242+17 | LT | 19 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8324 | 243+04 | RT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

**PLAN**

SCALE IN FEET

0 20 40

N




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 10:09:00 AM
LAYOUT: PP15

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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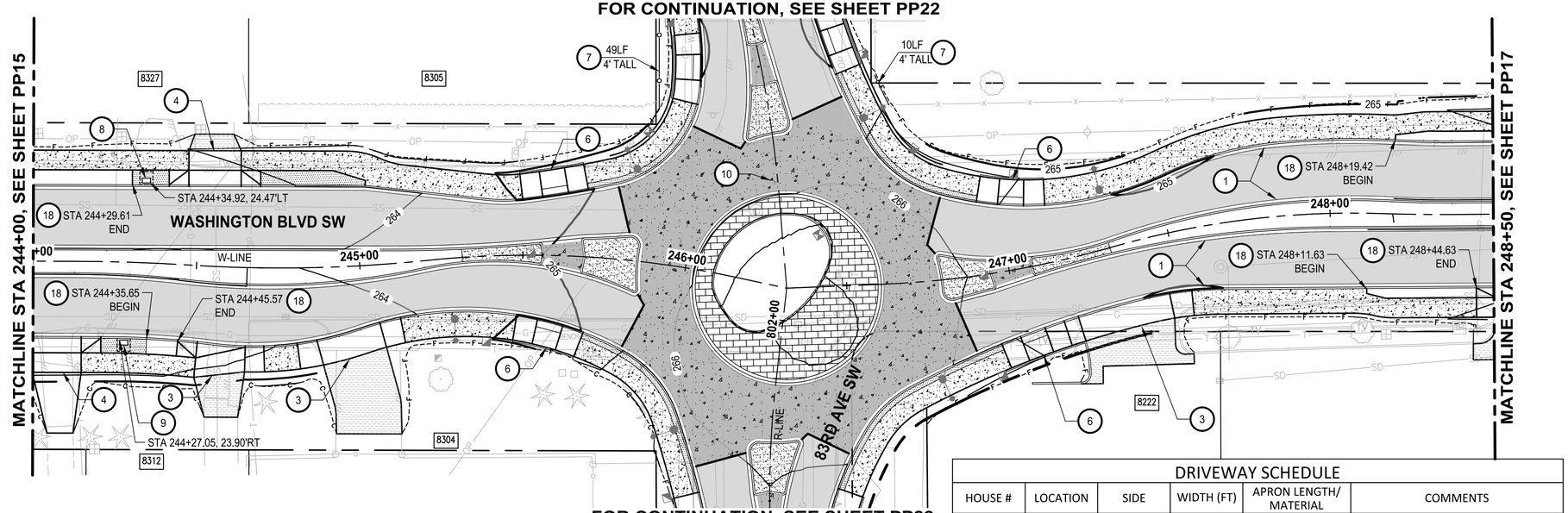
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 39 OF 169
PP15

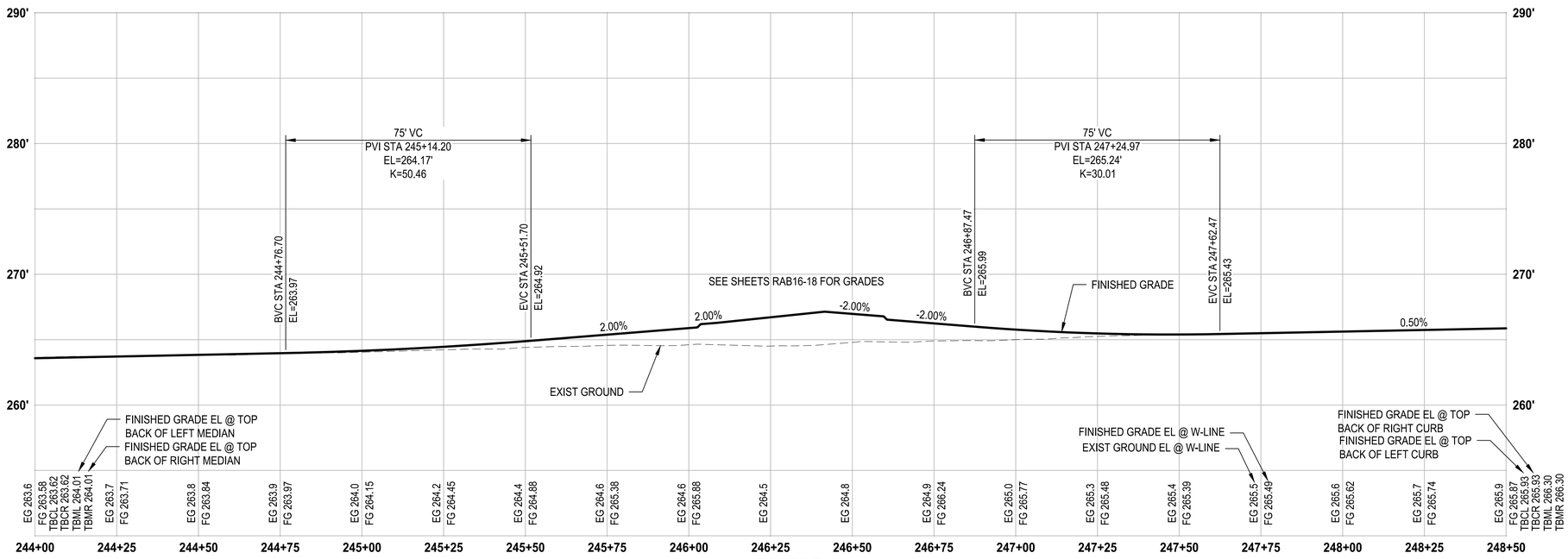
FOR CONTINUATION, SEE SHEET PP22




FOR CONTINUATION, SEE SHEET PP22

PLAN
SCALE IN FEET
0 20 40

| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 8314 | 244+06 | RT | 15 | 18 / HMA | |
| 8312 | 244+58 | RT | 15 | 13 / CONC | SAWCUT EXISTING CONCRETE |
| 8327 | 244+53 | LT | 18 | 5 / CONC | SAWCUT EXISTING CONCRETE |
| 8304 | 244+96 | RT | 19 | 24 / HMA | REFER TO DRIVEWAY DETAILS |
| 8222 | 247+33 | RT | 30 | 12 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

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| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP16-19
JOB No. 214-3047-013
DATE JANUARY 2022

DMITRI VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

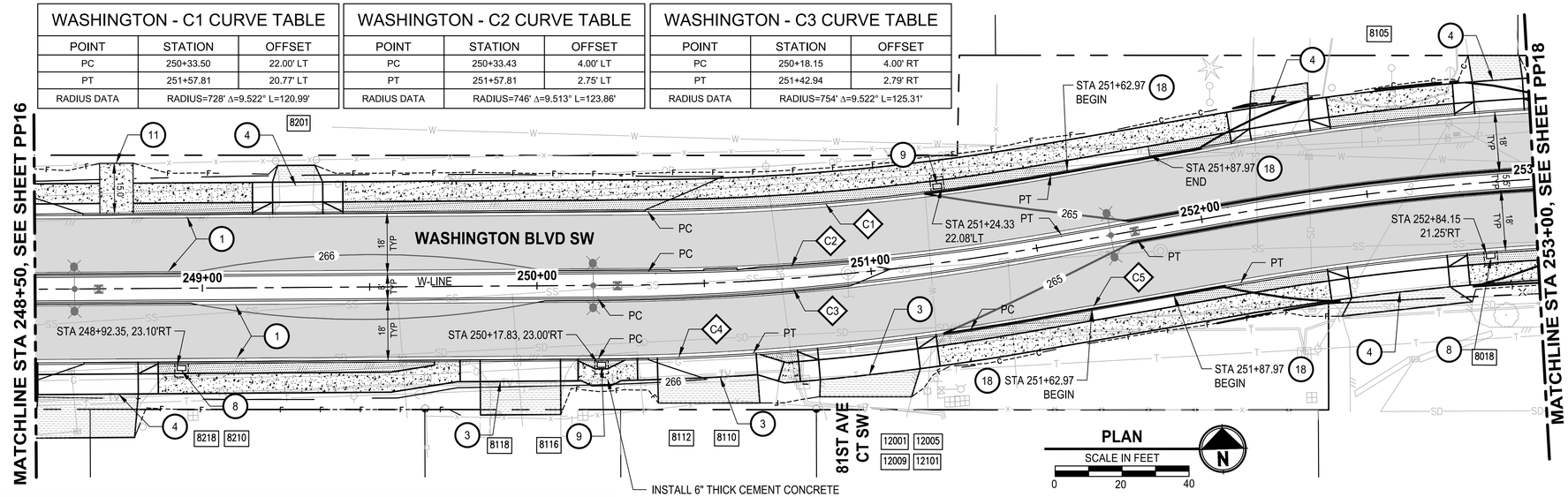
DRAWING NO. 40 OF 169
PP16

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 12:57:50 PM
LAYOUT: PP16

| WASHINGTON - C1 CURVE TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| PC | 250+33.50 | 22.00' LT |
| PT | 251+57.81 | 20.77' LT |
| RADIUS DATA | RADIUS=728' Δ=9.522° L=120.99' | |

| WASHINGTON - C2 CURVE TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| PC | 250+33.43 | 4.00' LT |
| PT | 251+57.81 | 2.75' LT |
| RADIUS DATA | RADIUS=746' Δ=9.513° L=123.86' | |

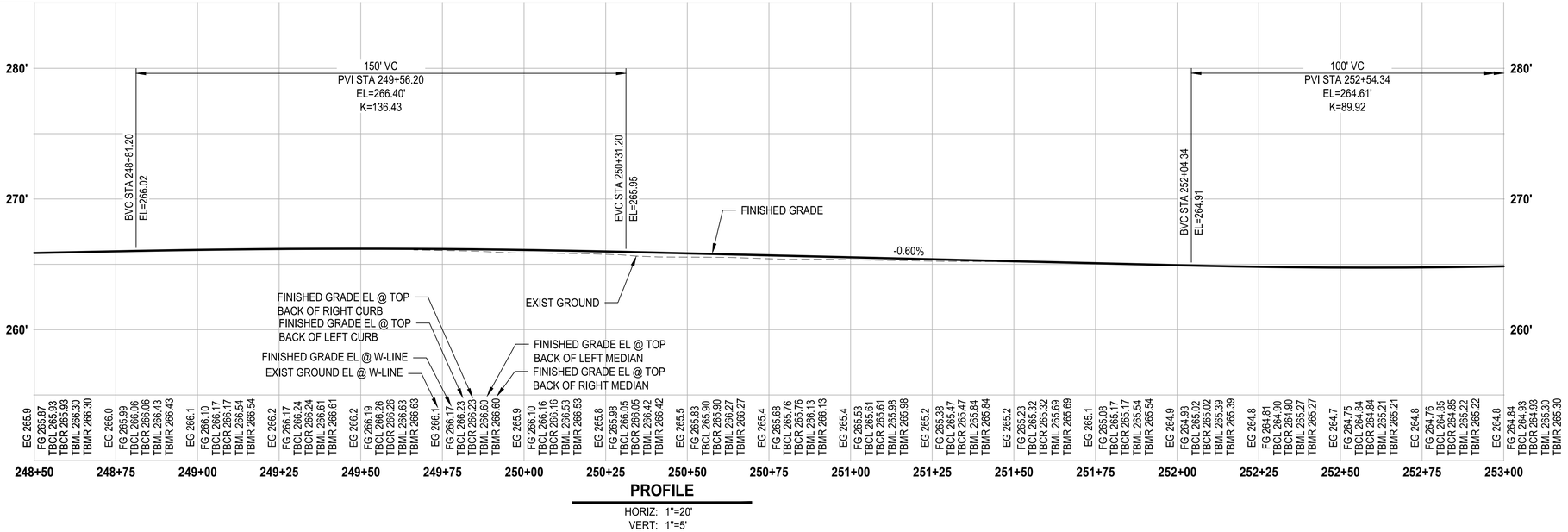
| WASHINGTON - C3 CURVE TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| PC | 250+18.15 | 4.00' RT |
| PT | 251+42.94 | 2.79' RT |
| RADIUS DATA | RADIUS=754' Δ=9.522° L=125.31' | |




| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 8218 8210 | 248+66 | RT | 24 | 13 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8201 | 249+27 | LT | 15 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8118 8116 | 249+91 | RT | 30 | 10 / CONC | SAWCUT EXISTING CONCRETE |
| 8112 8110 | 250+50 | RT | 30 | 8 / CONC | SAWCUT EXISTING CONCRETE |
| 12001 12005 12009 12101 | 250+95 | RT | 30 | 7 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8105 | 252+27 | LT | 18 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8018 | 252+57 | RT | 30 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8105 | 252+91 | LT | 15 | 7 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

| WASHINGTON - C4 CURVE TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| PC | 250+18.15 | 21.00' RT |
| PT | 250+63.41 | 21.69' RT |
| RADIUS DATA | RADIUS=801' Δ=3.316° L=46.35' | |

| WASHINGTON - C5 CURVE TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| PC | 251+27.00 | 20.97' RT |
| PT | 251+50.00 | 20.77' RT |
| RADIUS DATA | RADIUS=3556' Δ=0.428° L=26.59' | |




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4 DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3 DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2 DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4 DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3 DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----C---- CUT
- ----F---- FILL

## PROFILE NOTES

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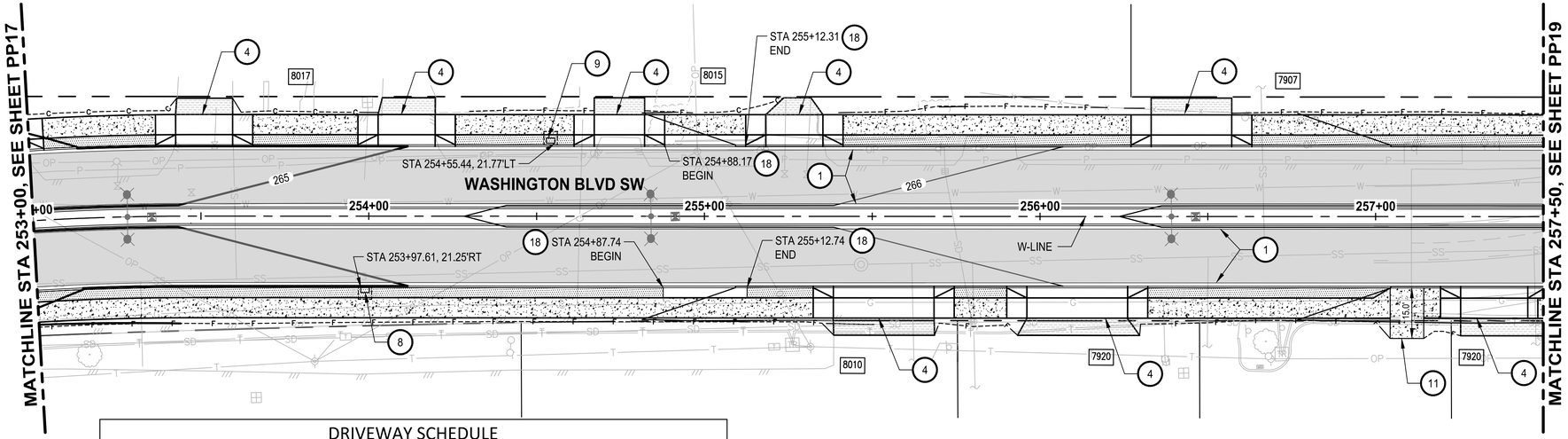
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 41 OF 169
PP17

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Thursday, January 27, 2022 11:53:51 AM LAYOUT: PP17

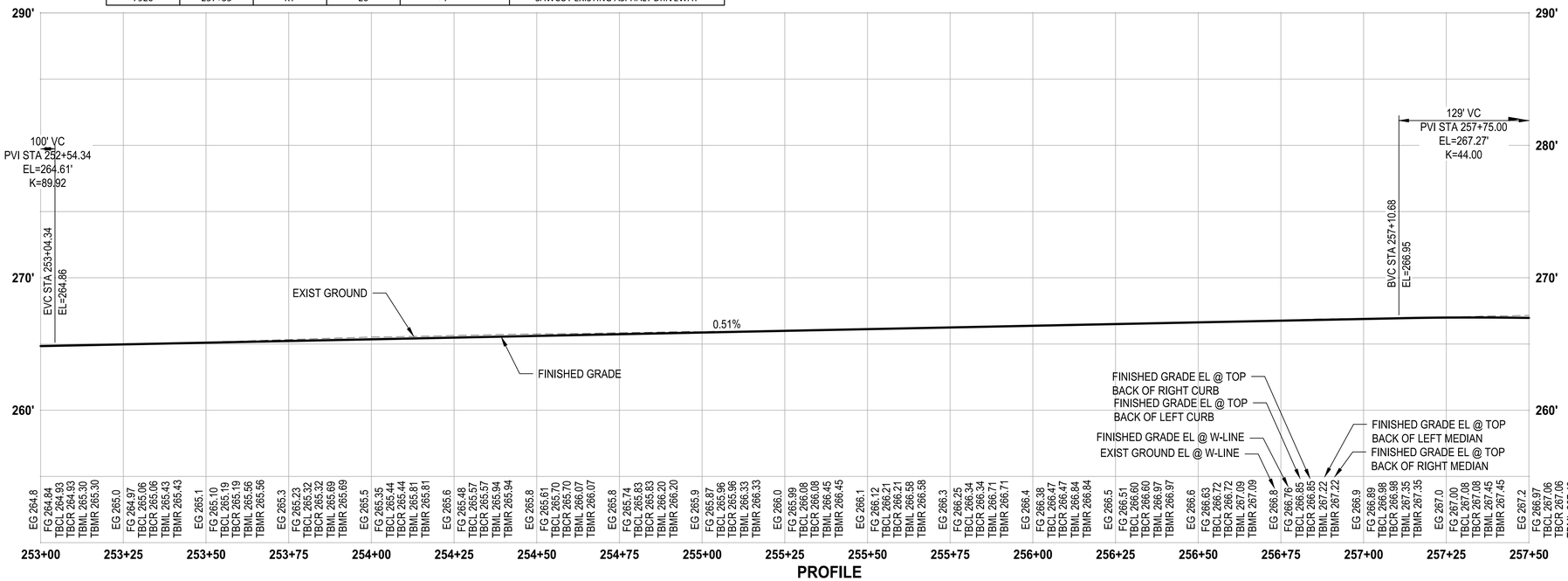



| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 8107 | 253+51 | LT | 17 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8107 | 254+11 | LT | 17 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 8105 | 254+75 | LT | 15 | 5 / HMA | |
| 8105 | 255+27 | LT | 17 | 5 / HMA | |
| 8010 | 255+53 | RT | 30 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 7920 | 256+11 | RT | 30 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 7907 | 256+45 | LT | 24 | 5 / HMA | |
| 7920 | 257+35 | RT | 20 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |

**PLAN**

SCALE IN FEET

0 20 40




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 11:54:13 AM
LAYOUT: PP18


| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP16-19
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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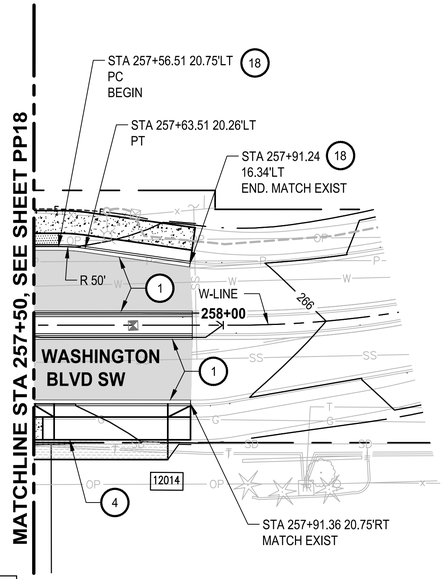
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

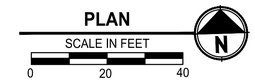
# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

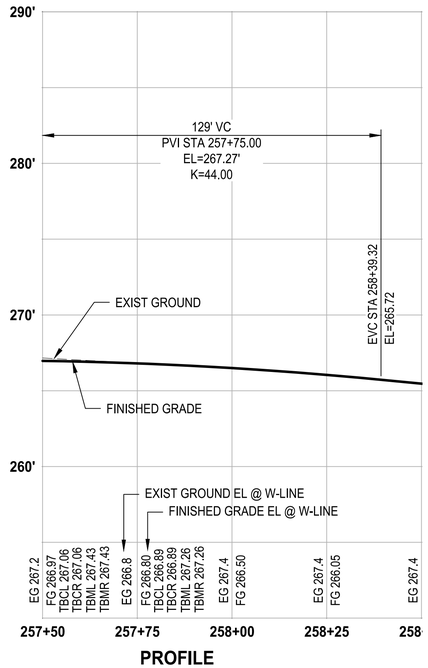
DRAWING NO. 42 OF 169

PP18




| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 7729 | 260+72 | LT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP16-19
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ★1996★

DMITRY VICTOROVIC SUSLIKOV · STATE OF WASHINGTON · 38390 · REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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bcra
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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

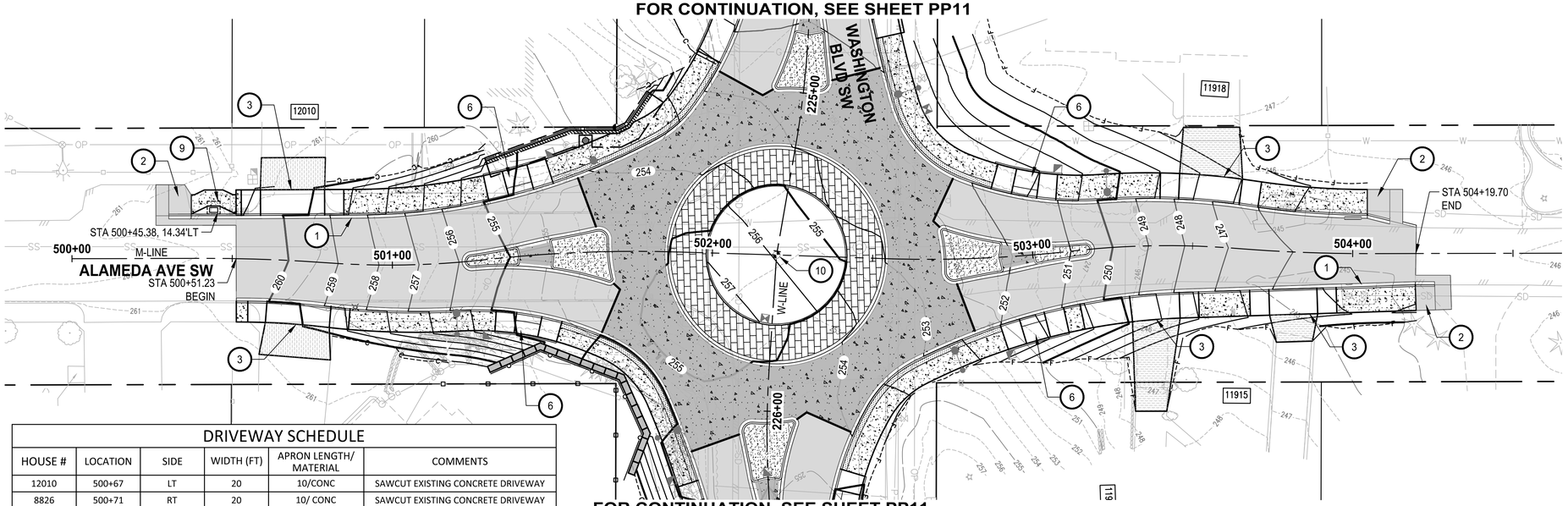
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE WASHINGTON BLVD SW

DRAWING NO. 43 OF 169
PP19

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 11:54:34 AM
LAYOUT: PP19

FOR CONTINUATION, SEE SHEET PP11




FOR CONTINUATION, SEE SHEET PP11

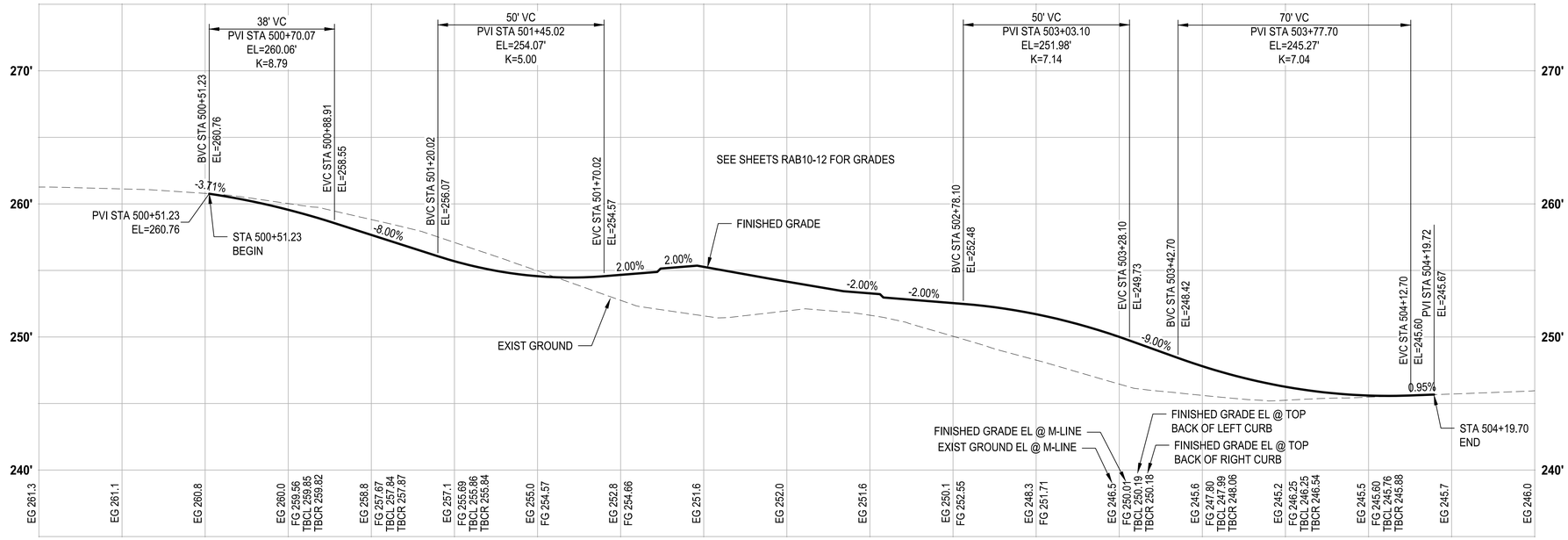
PLAN

SCALE IN FEET

0 20 40

## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 12010 | 500+67 | LT | 20 | 10/CONC | SAWCUT EXISTING CONCRETE DRIVEWAY |
| 8826 | 500+71 | RT | 20 | 10/ CONC | SAWCUT EXISTING CONCRETE DRIVEWAY |
| 11915 | 503+38 | RT | 16 | 24 / HMA | |
| 11918 | 503+54 | LT | 19 | 14 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |
| 11915 | 503+82 | RT | 15 | 8 / HMA | |




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013–PP37–39
JOB No. 214–3047–013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSLIKOV STATE OF WASHINGTON 36390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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bcra
2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
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WWW.BCRADESIGN.COM

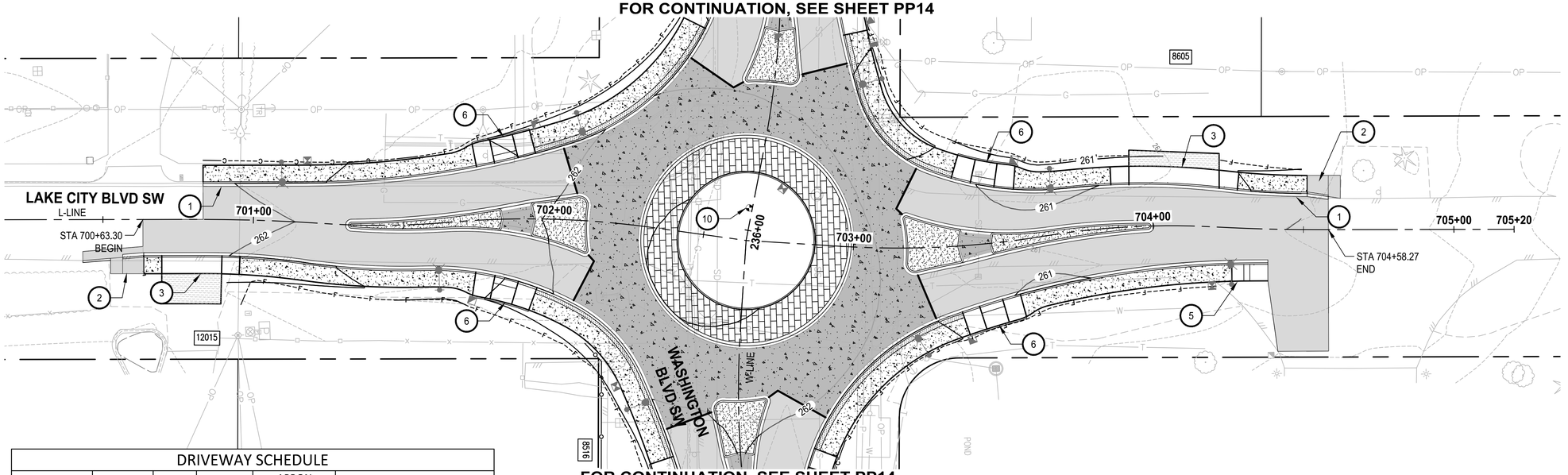
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE ALAMEDA AVE SW

DRAWING NO. 44 OF 169
PP20

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: toylokat DATE: Thursday, January 27, 2022 1:18:54 PM LAYOUT: PP20

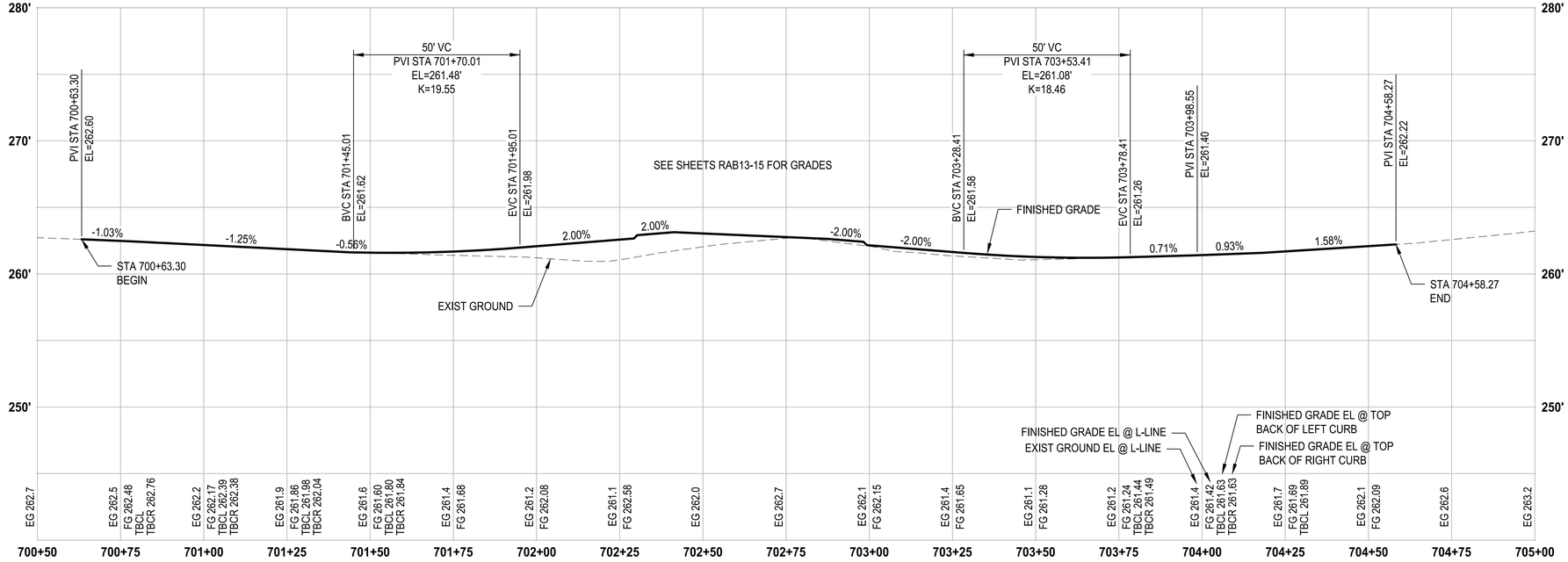
FOR CONTINUATION, SEE SHEET PP14




FOR CONTINUATION, SEE SHEET PP14

PLAN
SCALE IN FEET
0 20 40

| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 12015 | 700+76 | RT | 20 | 10 / HMA | |
| 8605 | 704+09 | LT | 20 | 5 / HMA | |




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP37-39
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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WWW.BCRADESIGN.COM

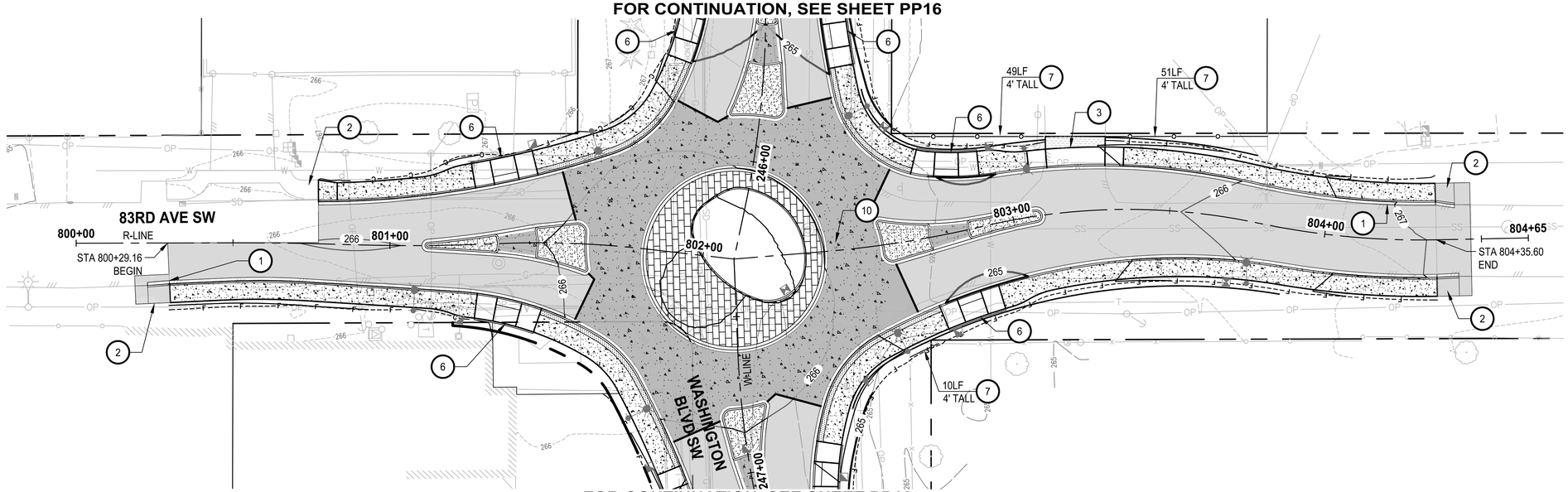
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE LAKE CITY BLVD SW

DRAWING NO. 45 OF 169
PP21

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Thursday, January 27, 2022 1:19:16 PM
LAYOUT: PP21

FOR CONTINUATION, SEE SHEET PP16



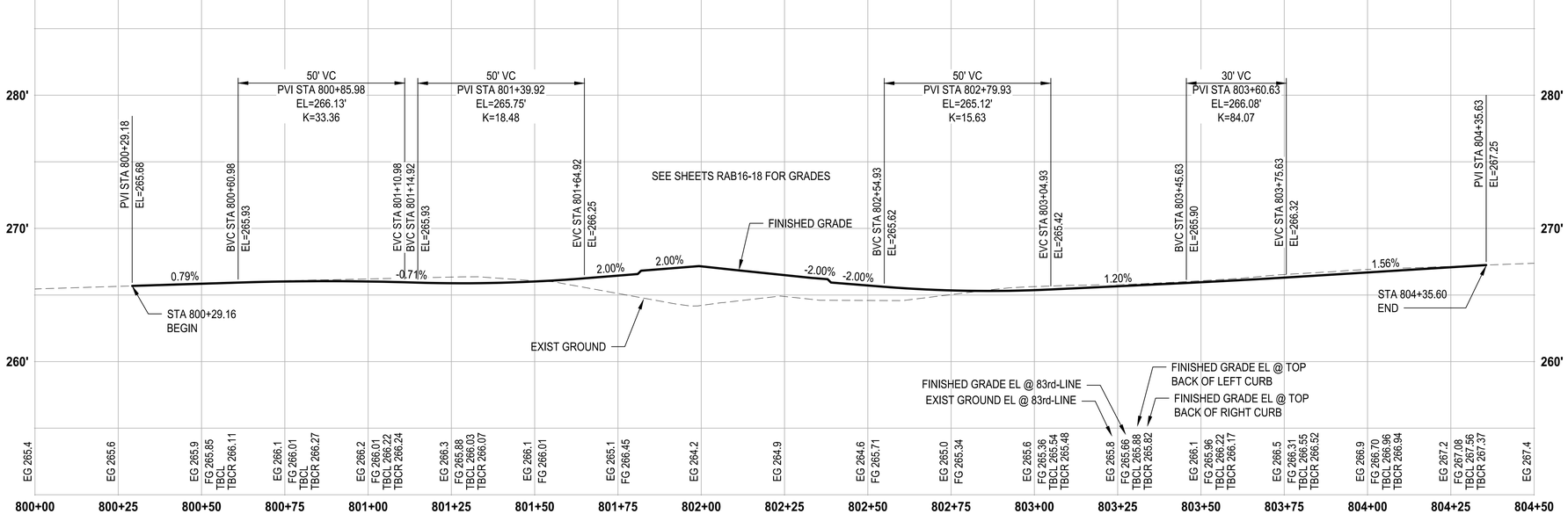

FOR CONTINUATION, SEE SHEET PP16

PLAN

SCALE IN FEET

0 20 40

| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 8905 | 803+21 | RT | 18 | 5 / HMA | SAWCUT EXISTING ASPHALT DRIVEWAY |




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----C---- CUT
- ----F---- FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-PP37-39
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSLIKOV — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER

01/14/2022

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2106 PACIFIC AVE, SUITE 300
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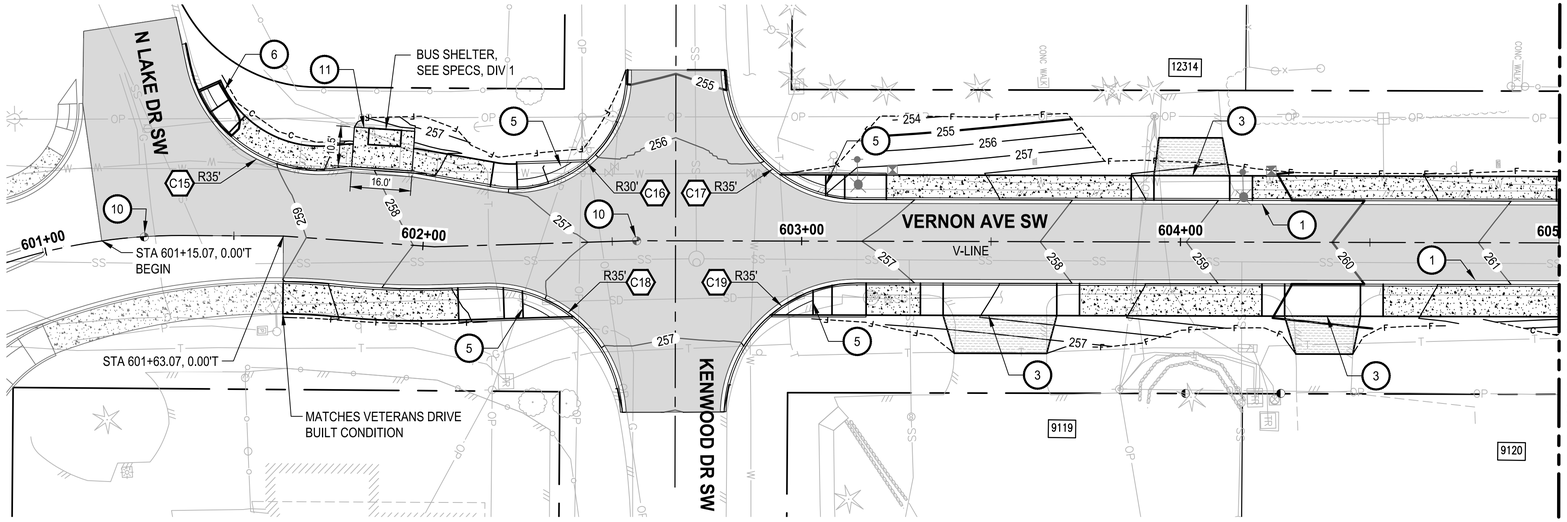
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE 83RD AVE SW

DRAWING NO. 46 OF 169

PP22

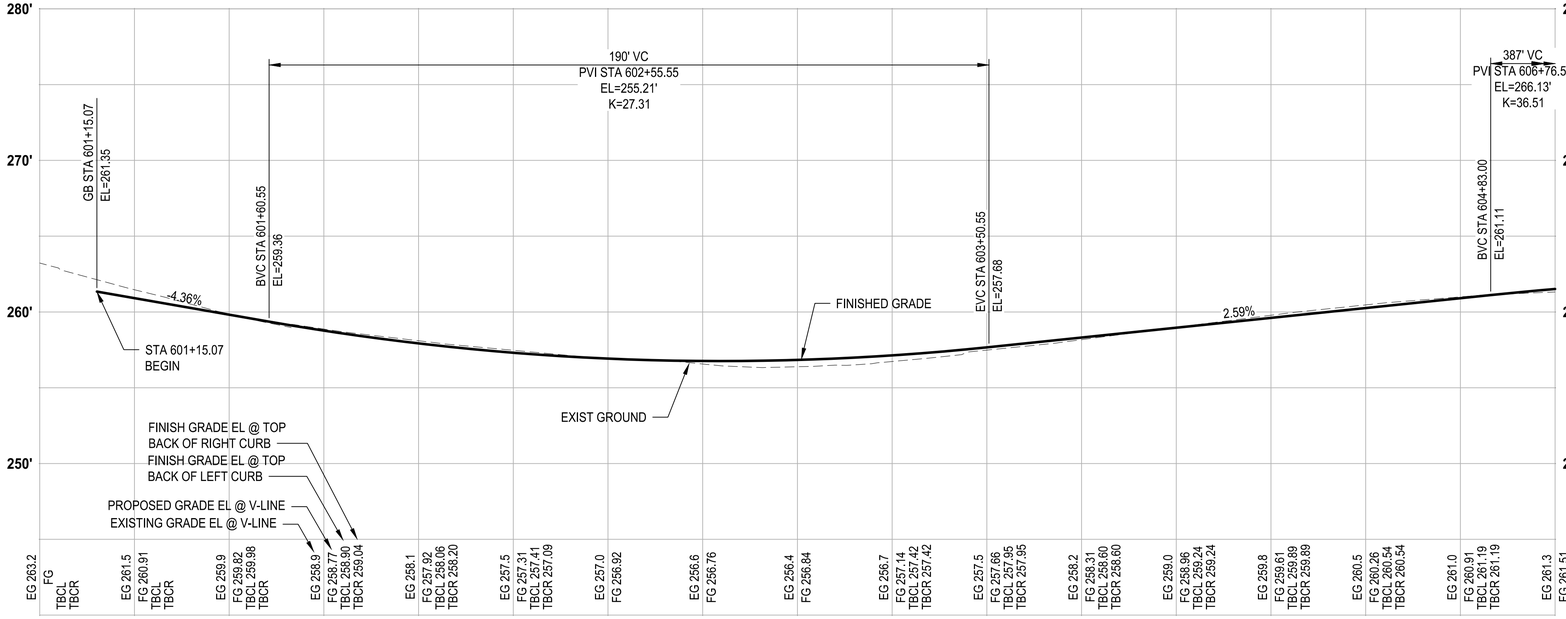
PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokot DATE: Thursday, January 27, 2022 1:19:39 PM
LAYOUT: PP22




## DRIVEWAY SCHEDULE

| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
|---|---|---|---|---|---|
| 9119 | 603+52 | RT | 30 | 10 / HMA | SAWCUT EXISTING ASPHALT |
| 12314 | 604+03 | RT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT |
| 9120 | 604+38 | RT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT |

**PLAN**
SCALE IN FEET
0 20 40




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## C15 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 601+74.70 | 18.24' LT | 258.46 |
| PT | 601+38.22 | 44.89 LT | 259.64 |
| RADIUS DATA | RADIUS=35' Δ=83.458° L=50.982' | | |

## C16 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 602+55.38 | 43.52' LT | 254.90 |
| 1/4Δ | | | 255.53 |
| 1/2Δ | | | 256.12 |
| 3/4Δ | | | 256.57 |
| PT | 602+19.34 | 15.22' LT | 257.18 |
| RADIUS DATA | RADIUS=30' Δ=99.585° L=52.14' | | |

## C17 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 602+79.59 | 45.06' LT | 255.00 |
| 1/4Δ | | | 255.38 |
| 1/2Δ | | | 256.01 |
| 3/4Δ | | | 256.41 |
| PT | 603+14.58 | 11.00' LT | 256.76 |
| RADIUS DATA | RADIUS=35' Δ=88.459° L=54.036' | | |

## C18 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 602+16.32 | 11.00' RT | 257.32 |
| 1/4Δ | | | 257.03 |
| 1/2Δ | | | 256.90 |
| 3/4Δ | | | 257.14 |
| PT | 602+51.31 | 45.11' RT | 257.81 |
| RADIUS DATA | RADIUS=35' Δ=88.549° L=54.09' | | |

## C19 CURB RETURN TABLE

| POINT | STATION | OFFSET | FL ELEVATION |
|---|---|---|---|
| PC | 602+79.63 | 45.06' RT | 257.84 |
| 1/4Δ | | | 257.21 |
| 1/2Δ | | | 256.81 |
| 3/4Δ | | | 256.60 |
| PT | 603+14.62 | 11.00' RT | 256.77 |
| RADIUS DATA | RADIUS=35' Δ=88.497° L=54.036' | | |

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —c— CUT
- —f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSLIKOV — STATE OF WASHINGTON — 36390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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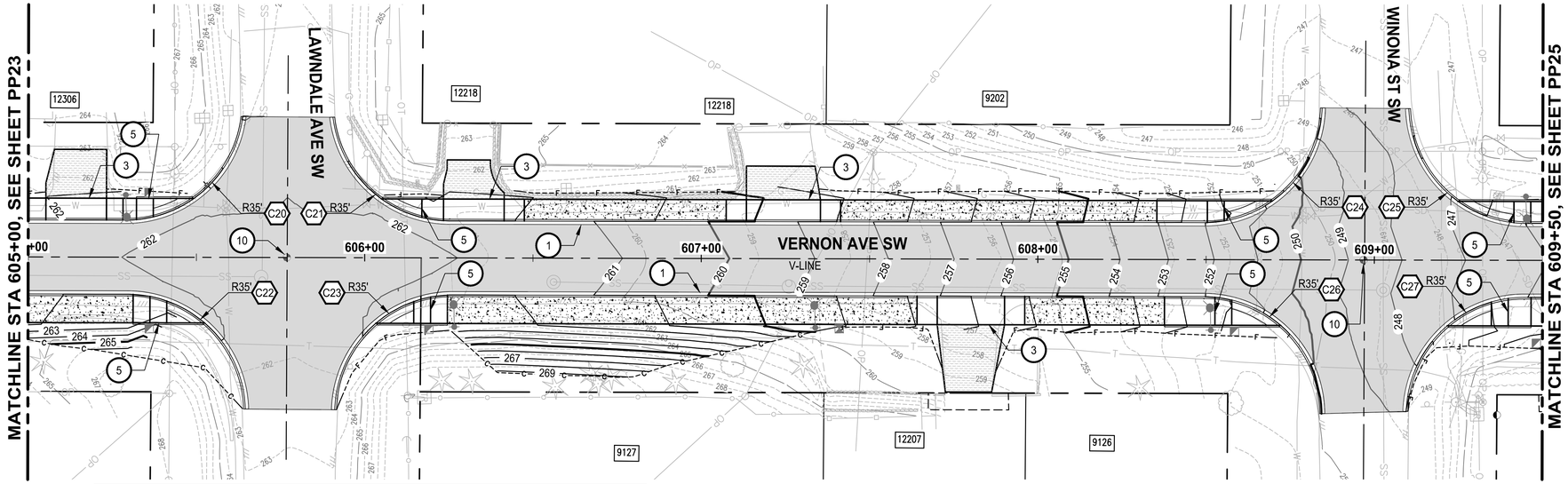
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE VERNON AVE SW

DRAWING NO. 47 OF 169
**PP23**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: taylokat DATE: Thursday, January 27, 2022 12:38:40 PM
LAYOUT: PP23

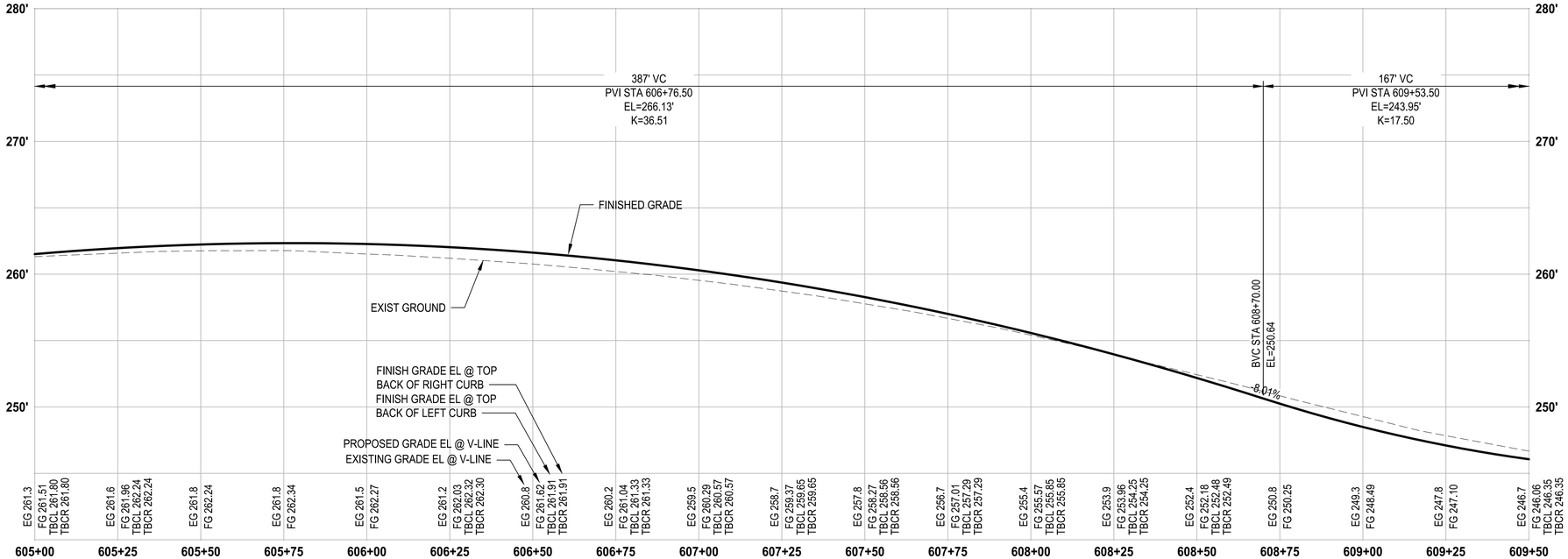



| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 12306 | 605+14 | LT | 18 | 15 / HMA | SAWCUT EXISTING ASPHALT |
| 12218 | 606+32 | LT | 18 | 12 / HMA | SAWCUT EXISTING ASPHALT |
| 12218 | 607+24 | LT | 22 | 10 / HMA | SAWCUT EXISTING ASPHALT |
| 12207 | 607+80 | RT | 20 | 20 / HMA | SAWCUT EXISTING ASPHALT |

**PLAN**
SCALE IN FEET
0 20 40

## CURVE TABLE NOTE

REFER TO SHEET PP27 FOR ALL CURVE DATA




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRI VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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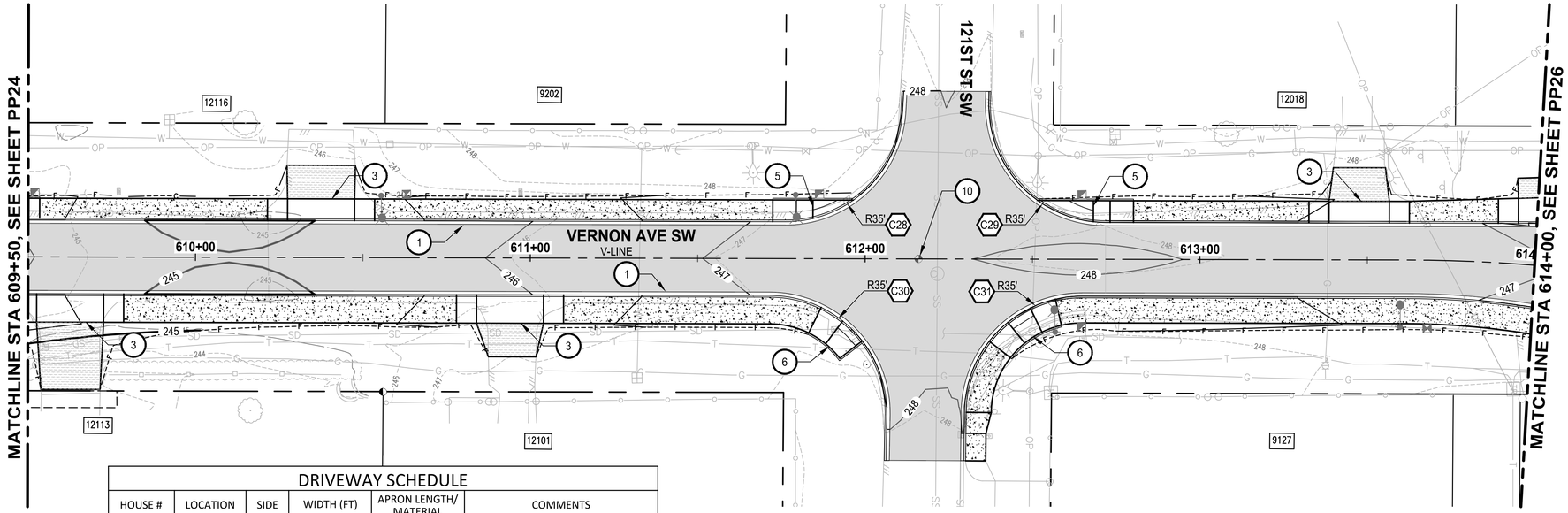
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE VERNON AVE SW

DRAWING NO.
48 OF 169
PP24


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 27, 2022 12:39:11 PM
LAYOUT: PP24

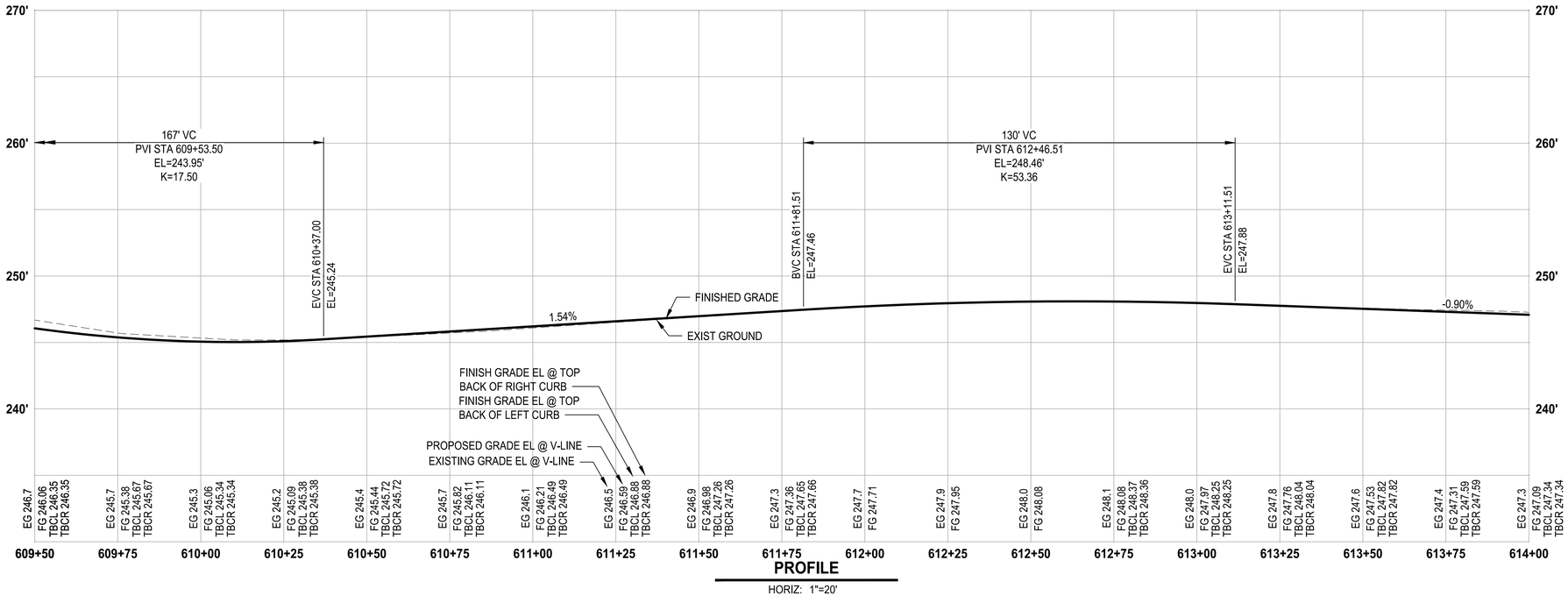



| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 12113 | 609+63 | RT | 20 | 20 / HMA | SAWCUT EXISTING ASPHALT |
| 12116 | 610+37 | LT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT |
| 12101 | 610+94 | RT | 20 | 10 / HMA | SAWCUT EXISTING ASPHALT |
| 12018 | 613+48 | LT | 18 | 10 / HMA | SAWCUT EXISTING ASPHALT |

**PLAN**
SCALE IN FEET
0 20 40

## CURVE TABLE NOTE

REFER TO SHEET PP27 FOR ALL CURVE DATA




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
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8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
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16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ----C---- CUT
- ----F---- FILL

## PROFILE NOTES

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| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

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01/14/2022

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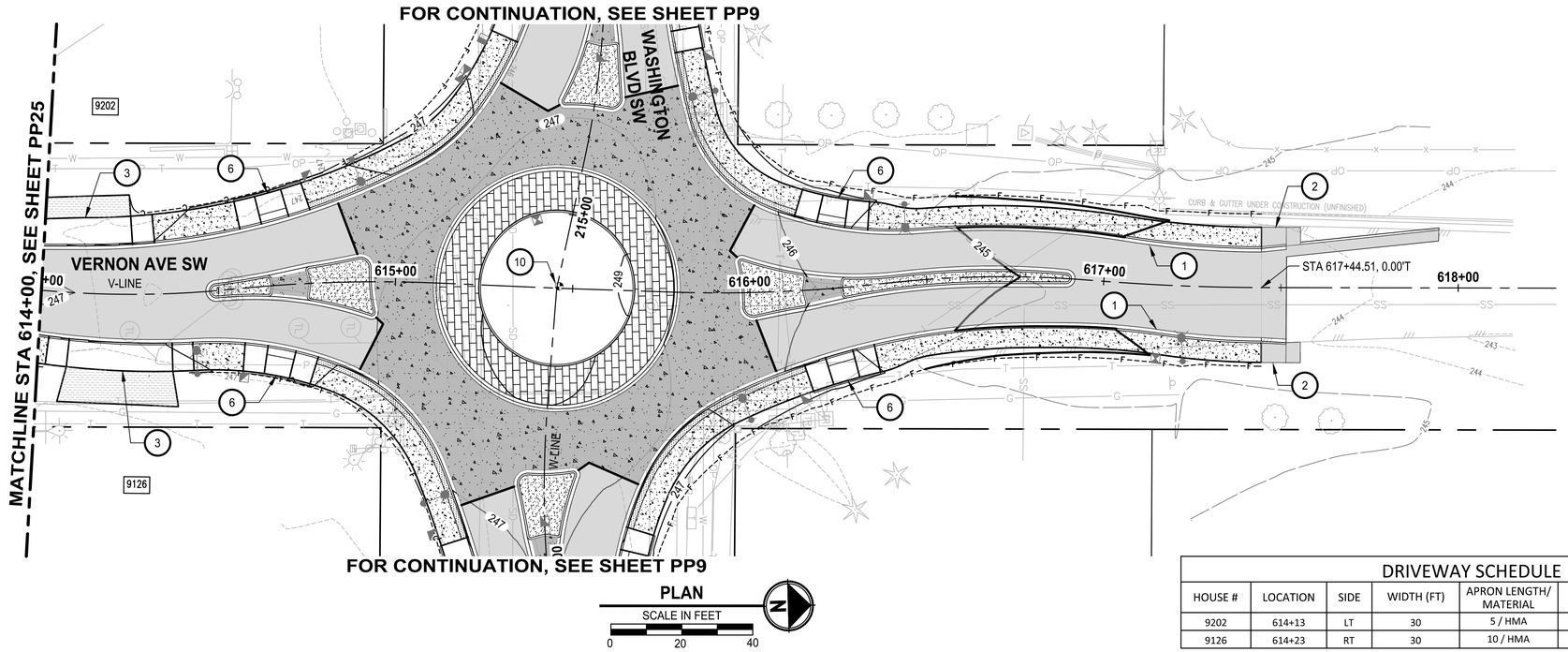
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE VERNON AVE SW

DRAWING NO. 49 OF 169
PP25

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokot DATE: Thursday, January 27, 2022 12:39:43 PM
LAYOUT: PP25



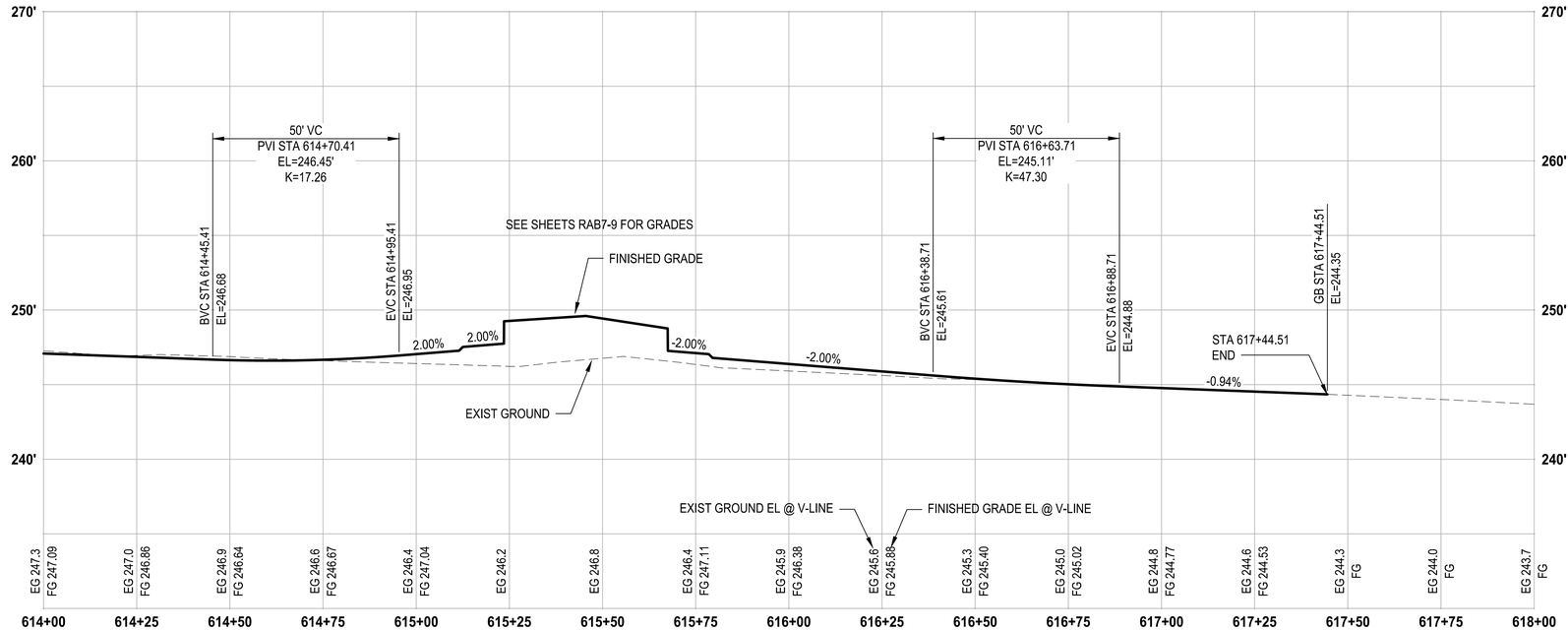

PLAN

SCALE IN FEET

0 20 40

N

| DRIVEWAY SCHEDULE | | | | | |
|---|---|---|---|---|---|
| HOUSE # | LOCATION | SIDE | WIDTH (FT) | APRON LENGTH/ MATERIAL | COMMENTS |
| 9202 | 614+13 | LT | 30 | 5 / HMA | SAWCUT EXISTING ASPHALT |
| 9126 | 614+23 | RT | 30 | 10 / HMA | SAWCUT EXISTING ASPHALT |




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
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5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
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15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- ——c—— CUT
- ——f—— FILL

## PROFILE NOTES

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| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN M. VASSEY/K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
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CITY OF LAKEWOOD WA 1996

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WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE VERNON AVE SW

DRAWING NO. 50 OF 169

PP26

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Thursday, January 27, 2022 12:40:15 PM
LAYOUT: PP26

## VERNON AND LAWNDALE AVE CURVE TABLE

REFER TO SHEET PP24 FOR PLAN VIEW

| C20 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 605+28.91 | 11.00' LT | 261.80 |
| 1/4Δ | | | 261.88 |
| 1/2Δ | | | 261.78 |
| 3/4Δ | | | 261.37 |
| PT | 605+63.66 | 41.86' LT | 260.97 |
| RADIUS DATA | RADIUS=35' Δ=83.209° L=50.83' | | |

| C21 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 605+90.47 | 41.70' LT | 261.12 |
| 1/4Δ | | | 261.46 |
| 1/2Δ | | | 261.81 |
| 3/4Δ | | | 261.88 |
| PT | 606+25.20 | 11.00' LT | 261.81 |
| RADIUS DATA | RADIUS=35' Δ=82.953° L=50.67' | | |

| C22 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 605+29.64 | 11.00' RT | 261.81 |
| 1/4Δ | | | 261.89 |
| 1/2Δ | | | 261.97 |
| 3/4Δ | | | 262.05 |
| PT | 605+64.63 | 45.05' RT | 262.40 |
| RADIUS DATA | RADIUS=35' Δ=88.442° L=54.03' | | |

| C23 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 605+91.19 | 45.20' RT | 262.35 |
| 1/4Δ | | | 262.15 |
| 1/2Δ | | | 261.95 |
| 3/4Δ | | | 261.86 |
| PT | 606+26.18 | 11.00' RT | 261.79 |
| RADIUS DATA | RADIUS=35' Δ=88.693° L=54.18' | | |

## VERNON AND WINONA ST CURVE TABLE

REFER TO SHEET PP24 FOR PLAN VIEW

| C24 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 608+49.39 | 11.00' LT | 252.01 |
| 1/4Δ | | | 251.22 |
| 1/2Δ | | | 250.43 |
| 3/4Δ | | | 249.34 |
| PT | 608+84.38 | 45.17' LT | 248.27 |
| RADIUS DATA | RADIUS=35' Δ=88.649° L=54.15 | | |

| C25 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 609+10.17 | 44.24' LT | 247.33 |
| 1/4Δ | | | 247.52 |
| 1/2Δ | | | 247.11 |
| 3/4Δ | | | 246.56 |
| PT | 609+45.13 | 11.00' LT | 246.02 |
| RADIUS DATA | RADIUS=35' Δ=87.126° L=53.22 | | |

| C26 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 608+49.39 | 11.00' RT | 252.01 |
| 1/4Δ | | | 251.15 |
| 1/2Δ | | | 250.59 |
| 3/4Δ | | | 249.98 |
| PT | 608+84.37 | 44.89' RT | 249.86 |
| RADIUS DATA | RADIUS=35' Δ=88.180° L=53.866' | | |

| C27 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 609+09.55 | 44.97' RT | 248.81 |
| 1/4Δ | | | 248.02 |
| 1/2Δ | | | 247.25 |
| 3/4Δ | | | 246.65 |
| PT | 609+44.54 | 11.00' RT | 246.40 |
| RADIUS DATA | RADIUS=35' Δ=88.316° L=53.95 | | |

## VERNON AND 121ST CURVE TABLE

REFER TO SHEET PP25 FOR PLAN VIEW

| C28 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 611+76.14 | 11.00' LT | 247.16 |
| 1/4Δ | | | 247.39 |
| 1/2Δ | | | 247.52 |
| 3/4Δ | | | 247.63 |
| PT | 612+11.09 | 44.15' LT | 247.75 |
| RADIUS DATA | RADIUS=35' Δ=86.973° L=53.13 | | |

| C29 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 612+36.82 | 46.76' LT | 247.83 |
| 1/4Δ | | | 247.81 |
| 1/2Δ | | | 247.88 |
| 3/4Δ | | | 247.90 |
| PT | 612+71.81 | 11.00' LT | 247.86 |
| RADIUS DATA | RADIUS=35' Δ=91.255° L=55.75 | | |

| C30 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 611+71.58 | 11.00' RT | 247.09 |
| 1/4Δ | | | 247.32 |
| 1/2Δ | | | 247.50 |
| 3/4Δ | | | 247.70 |
| PT | 612+06.58 | 46.53' RT | 247.93 |
| RADIUS DATA | RADIUS=35' Δ=90.861° L=55.504 | | |

| C31 CURB RETURN TABLE | | | |
|---|---|---|---|
| POINT | STATION | OFFSET | FL ELEVATION |
| PC | 612+29.76 | 45.75' RT | 248.00 |
| 1/4Δ | | | 247.96 |
| 1/2Δ | | | 247.94 |
| 3/4Δ | | | 247.92 |
| PT | 612+64.76 | 11.00' RT | 247.97 |
| RADIUS DATA | RADIUS=35' Δ=88.591° L=54.73 | | |

| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SIVAKOFF — STATE OF WASHINGTON — 38390 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# VERNON AVE SW CURVE TABLES

DRAWING NO. 51 OF 169

PP27


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG
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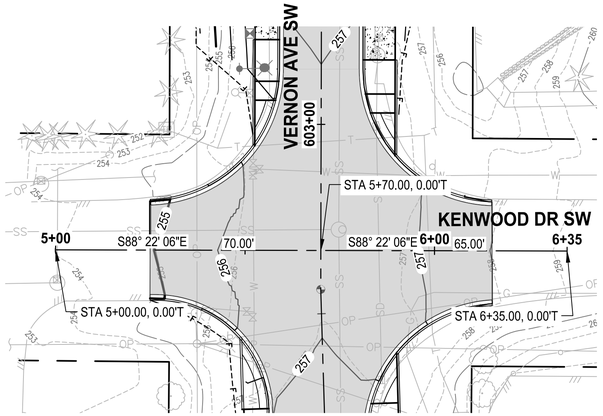


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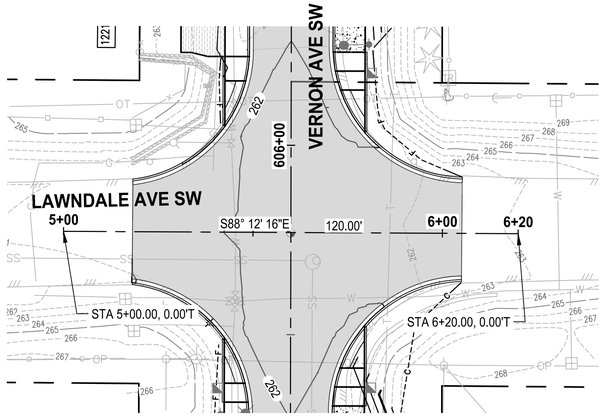


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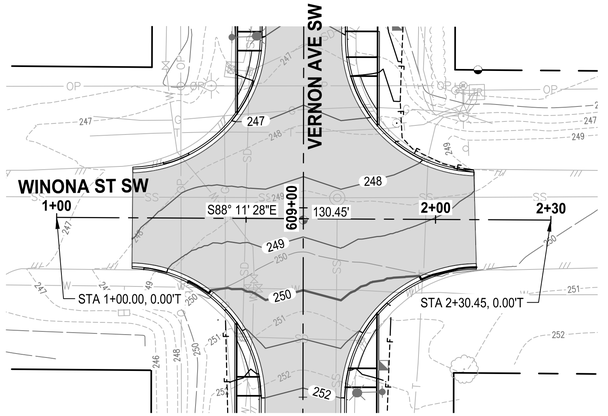


PLAN
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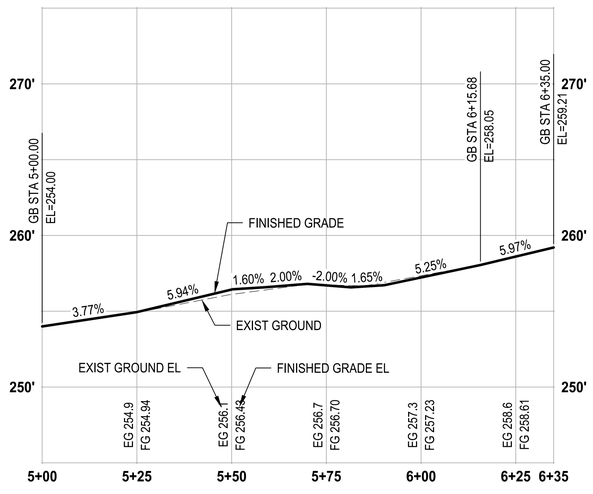
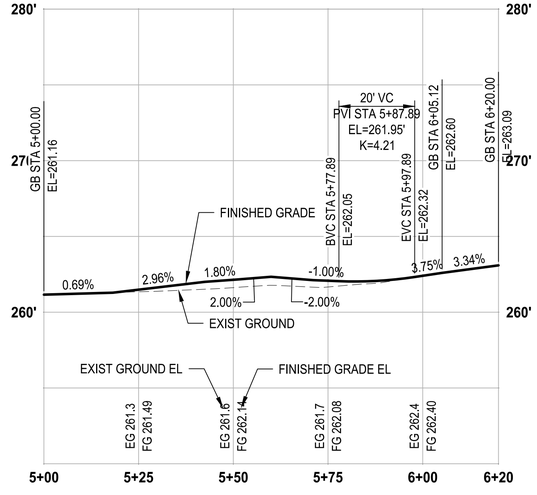
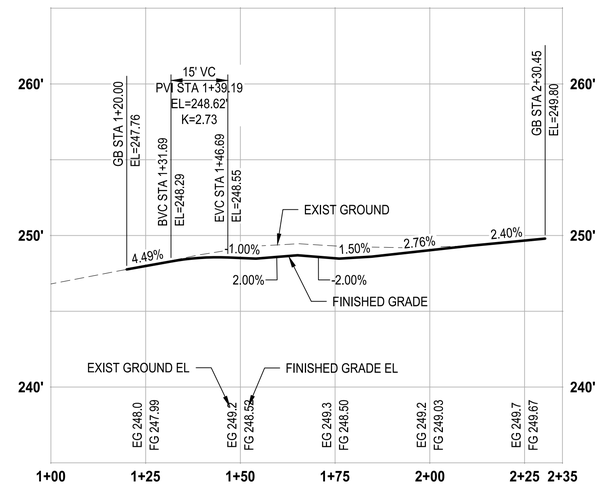



PROFILE
HORIZ: 1"=20'
VERT: 1"=5'




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## ROADWAY CONSTRUCTION NOTES

1. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04.
2. SIDEWALK TRANSITION WITH HMA RAMP & LANDING, PER 4/DT3
3. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1, PER 3/DT1
4. CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 3, PER 1,2/DT1
5. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION PER WSDOT STD PLAN F-40.16-03.
6. CEMENT CONCRETE CURB RAMP TYPE PARALLEL PER 4/DT1
7. TYPE 4 CHAIN LINK FENCE PER WSDOT STD PLAN L-20.10-03.
8. CLUSTER BOX UNIT TYPE I, SEE SHT DT2, DT3 & SPECIFICATIONS.
9. CLUSTER BOX UNIT TYPE V, SEE SHT DT2, DT3 & SPECIFICATIONS.
10. RESET EXISTING MONUMENT PER COL STD PLAN MI-02.
11. 10' x VARIES CEMENT CONC PAD FOR BUS SHELTER PER 3/DT3
12. CEMENT CONCRETE CURB RAMP TYPE PERPENDICULAR PER WSDOT STD PLAN F-40.15-04.
13. WOODEN FENCE, MATCH EXISTING.
14. NOT USED.
15. NOT USED.
16. MAILBOX SUPPORT TYPE 1 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.10-02.
17. MAILBOX SUPPORT TYPE 2 WITH NEW MAILBOX PER WSDOT STD PLAN H-70.20-02.
18. LANDSCAPING, SEE SHEETS LS1-LS14.

## GENERAL NOTES

1. SEE SHEETS RS1-RS2 FOR TYPICAL ROAD SECTIONS.
2. SEE SHEETS RAB1-RAB20 FOR ADDITIONAL LAYOUT AND GRADING INFORMATION RELATED TO ROUNDABOUTS.

## LEGEND

- CEMENT CONCRETE SIDEWALK PER COL STD PLAN FR-03
- COLORED CEMENT CONCRETE
- CEMENT CONCRETE TRUCK APRON, SEE RAB SHEETS
- CEMENT CONCRETE PAVEMENT, SEE RAB SHEETS
- HMA CL 1/2 IN PG 58H-22, DEPTH PER APPLICABLE ROADWAY SECTION
- CRUSHED SURFACING TOP COURSE
- DRIVEWAY APPROACH PER SECTIONS A,B, & C, SEE SHEET DT1
- —----c— CUT
- —----f— FILL

## PROFILE NOTES

CURB ELEVATIONS ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT INCLUDE NECESSARY ADJUSTMENTS FOR DRIVEWAYS, CURB RAMPS AND OTHER CURB OPENINGS IN WHICH THE CURB IS DEPRESSED. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CURB DEPRESSIONS AT THE TIME OF CONSTRUCTION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |
| | | | |

DESIGNED D. SUSLIKOV
DRAWN K. TAYLOR
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-PP43-47
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRY VICTOROVIC SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ROADWAY PLAN & PROFILE KENWOOD DR, LAWNDALE AVE, WINONA ST

DRAWING NO. 52 OF 169
PP28


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: tayloket DATE: Thursday, January 27, 2022 12:41:44 PM
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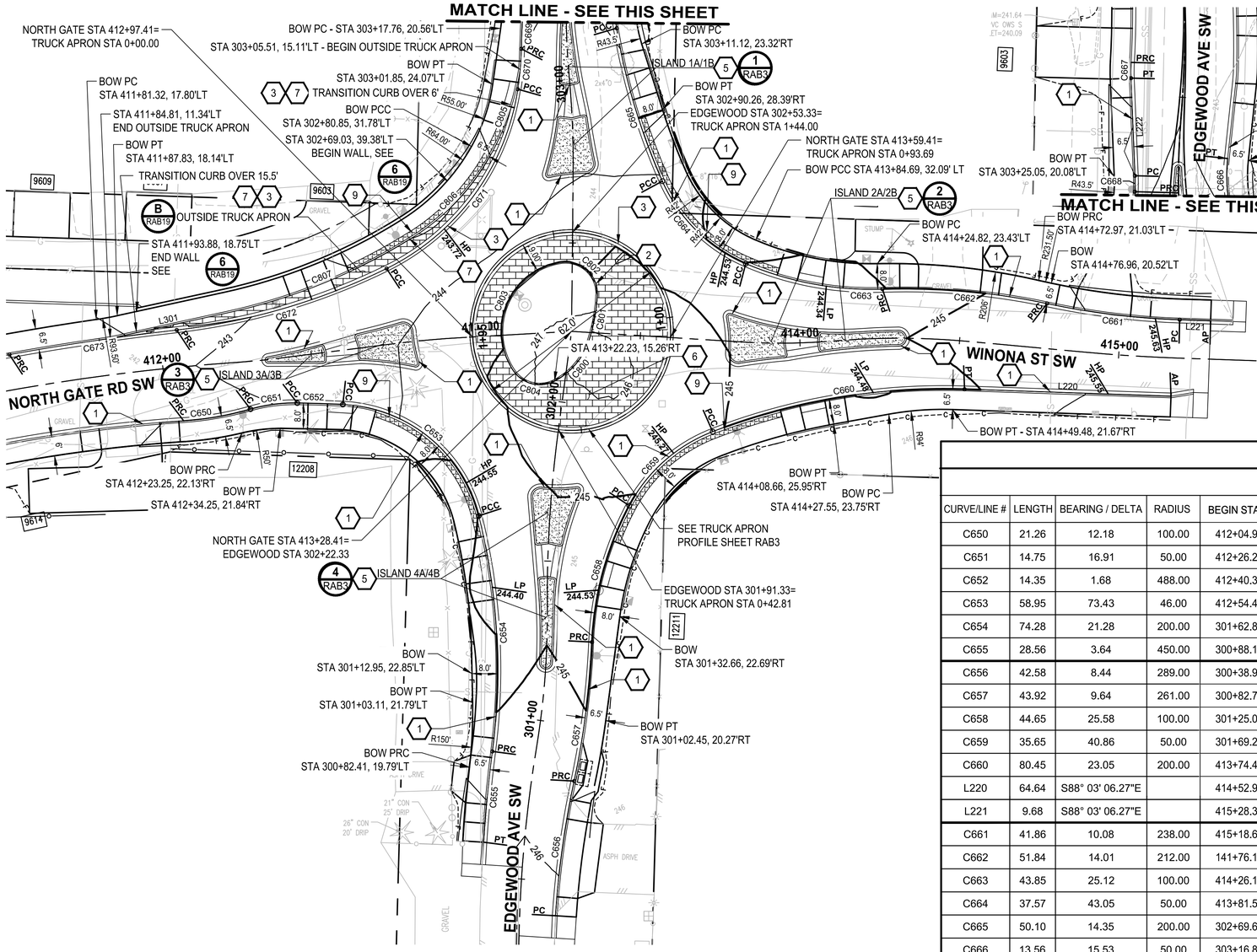


## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## (X) CONSTRUCTION NOTES

1 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04

2 INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19

3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)

4 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04

5 INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20

6 INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19

7 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19

8 INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01

9 INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

PLAN
SCALE IN FEET
0 20 40

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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### CENTER ISLAND

| Line #/Curve # | Length | Bearing/Delta | Radius |
|---|---|---|---|
| C800 | 16.86 | 43.92 | 22.00 |
| C801 | 14.71 | 15.61 | 54.00 |
| C802 | 17.80 | 101.99 | 10.00 |
| C803 | 44.15 | 114.98 | 22.00 |
| C804 | 14.57 | 83.51 | 10.00 |

### OUTSIDE TRUCK APRON

| Line #/Curve # | Length | Bearing/Delta | Radius |
|---|---|---|---|
| C805 | 32.56 | 23.17 | 80.50 |
| C806 | 31.74 | 25.80 | 70.50 |
| C807 | 62.78 | 19.93 | 180.50 |
| L301 | 37.90 | N77° 41' 23.44"E | |

### ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| C650 | 21.26 | 12.18 | 100.00 | 412+04.91 | 16.85' RT | 242.59 | | 242.67 | | 242.74 | | 242.82 | | 242.89 | 412+26.29 | 14.93' RT |
| C651 | 14.75 | 16.91 | 50.00 | 412+26.29 | 14.93' RT | 242.89 | | | | 243.00 | | | | 243.11 | 412+40.35 | 14.62' RT |
| C652 | 14.35 | 1.68 | 488.00 | 412+40.35 | 14.62' RT | 243.11 | | | | 243.22 | | | | 243.38 | 412+54.45 | 16.86' RT |
| C653 | 58.95 | 73.43 | 46.00 | 412+54.45 | 16.86' RT | 243.38 | 243.59 | 243.85 | 244.13 | 244.33 | 244.47 | 244.54 | 244.54 | 244.50 | 301+62.81 | 22.20' LT |
| C654 | 74.28 | 21.28 | 200.00 | 301+62.81 | 22.20' LT | 244.50 | 244.46 | 244.41 | 244.42 | 244.50 | 244.66 | 244.86 | 245.06 | 245.24 | 300+88.11 | 13.44' LT |
| C655 | 28.56 | 3.64 | 450.00 | 300+88.11 | 13.44' LT | 245.24 | | 245.39 | | 245.49 | | 245.63 | | 245.73 | 300+60.42 | 12.70' LT |
| C656 | 42.58 | 8.44 | 289.00 | 300+38.94 | 11.24' RT | 246.28 | 246.15 | 246.04 | 245.93 | 245.81 | 245.70 | 245.59 | 245.48 | 245.36 | 300+82.73 | 13.25' RT |
| C657 | 43.92 | 9.64 | 261.00 | 300+82.73 | 13.25' RT | 245.36 | 245.40 | 245.21 | 245.18 | 245.01 | 244.92 | 244.89 | 244.82 | 244.65 | 301.25+07 | 14.08' RT |
| C658 | 44.65 | 25.58 | 100.00 | 301+25.07 | 14.08' RT | 244.65 | 244.59 | 244.55 | 244.53 | 244.55 | 244.59 | 244.66 | 244.76 | 244.89 | 301+69.29 | 24.52' RT |
| C659 | 35.65 | 40.86 | 50.00 | 301+69.29 | 24.52' RT | 244.89 | | 245.13 | | 245.26 | | 245.25 | | 245.10 | 413+74.45 | 28.58' RT |
| C660 | 80.45 | 23.05 | 200.00 | 413+74.45 | 28.58' RT | 245.10 | 244.85 | 244.67 | 244.59 | 244.53 | 244.49 | 244.52 | 244.67 | 244.89 | 414+52.93 | 15.00' RT |
| L220 | 64.64 | S88° 03' 06.27"E | | 414+52.93 | 15.00' RT | 244.89 | 245.07 | 245.22 | 245.35 | 245.45 | 245.52 | 245.56 | 245.60 | 245.64 | 415+16.82 | 12.00' RT |
| L221 | 9.68 | S88° 03' 06.27"E | | 415+28.38 | 12.00' LT | 245.57 | | | | 245.60 | | | | 245.62 | 415+18.69 | 12.00' LT |
| C661 | 41.86 | 10.08 | 238.00 | 415+18.69 | 12.00' LT | 245.62 | 245.64 | 245.65 | 245.63 | 245.60 | 245.55 | 245.48 | 245.40 | 245.31 | 414+76.19 | 14.07' LT |
| C662 | 51.84 | 14.01 | 212.00 | 141+76.19 | 14.07' LT | 245.31 | 245.34 | 245.16 | 245.11 | 244.90 | 244.91 | 244.80 | 244.62 | 244.49 | 414+26.15 | 15.44' LT |
| C663 | 43.85 | 25.12 | 100.00 | 414+26.15 | 15.44' LT | 244.49 | 244.41 | 244.36 | 244.34 | 244.35 | 244.39 | 244.42 | 244.46 | 244.50 | 413+81.50 | 24.58' LT |
| C664 | 37.57 | 43.05 | 50.00 | 413+81.50 | 24.58' LT | 244.50 | | 244.53 | | 244.46 | | 244.31 | | 244.06 | 302+69.64 | 27.93' RT |
| C665 | 50.10 | 14.35 | 200.00 | 302+69.64 | 27.93' RT | 244.06 | 243.86 | 243.63 | 243.42 | 243.26 | 243.14 | 243.06 | 243.00 | 242.93 | 303+16.84 | 15.72' RT |
| C666 | 13.56 | 15.53 | 50.00 | 303+16.84 | 15.72' RT | 242.93 | | | | 242.86 | | | | 242.79 | 303+31.28 | 15.30' RT |
| C667 | 4.92 | 5.64 | 50.00 | 303+60.38 | 16.58' LT | 242.31 | | | | 242.35 | | | | 242.38 | 303+55.22 | 16.42' LT |
| L222 | 30.56 | S2° 20' 57.23"E | | 303+55.22 | 16.42' LT | 242.38 | | 242.48 | | 242.59 | | 242.69 | | 242.80 | 303+25.34 | 13.59' LT |
| C668 | 5.01 | 5.74 | 50.00 | 303+25.34 | 13.59' LT | 242.80 | | | | 242.83 | | | | 242.87 | 303+20.60 | 13.65' LT |
| C669 | 9.58 | 2.10 | 261.00 | 303+20.60 | 13.65' LT | 242.87 | | | | 242.93 | | | | 243.00 | 303+11.57 | 14.35' LT |
| C670 | 12.70 | 7.28 | 100.00 | 303+11.57 | 14.35' LT | 243.00 | | | | 243.08 | | | | 243.17 | 302+99.51 | 16.37' LT |
| C671 | 72.33 | 55.25 | 75.00 | 302+99.51 | 16.37' LT | 243.17 | 243.30 | 243.42 | 243.54 | 243.65 | 243.71 | 243.72 | 243.66 | 243.56 | 412+73.30 | 23.63' LT |
| C672 | 68.76 | 19.70 | 200.00 | 412+73.30 | 23.63' LT | 243.56 | 243.46 | 243.35 | 243.24 | 243.13 | 243.03 | 242.92 | 242.81 | 242.70 | 412+05.44 | 11.64' LT |
| C673 | 52.92 | 3.74 | 811.00 | 412+05.44 | 11.64' LT | 242.70 | | 242.55 | | 242.42 | | 242.21 | | 242.05 | 411+53.39 | 11.06' LT |

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-01
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# NORTH GATE & EDGEWOOD ROUNDABOUT GRADING PLAN

DRAWING NO. 53 OF 169
RAB1


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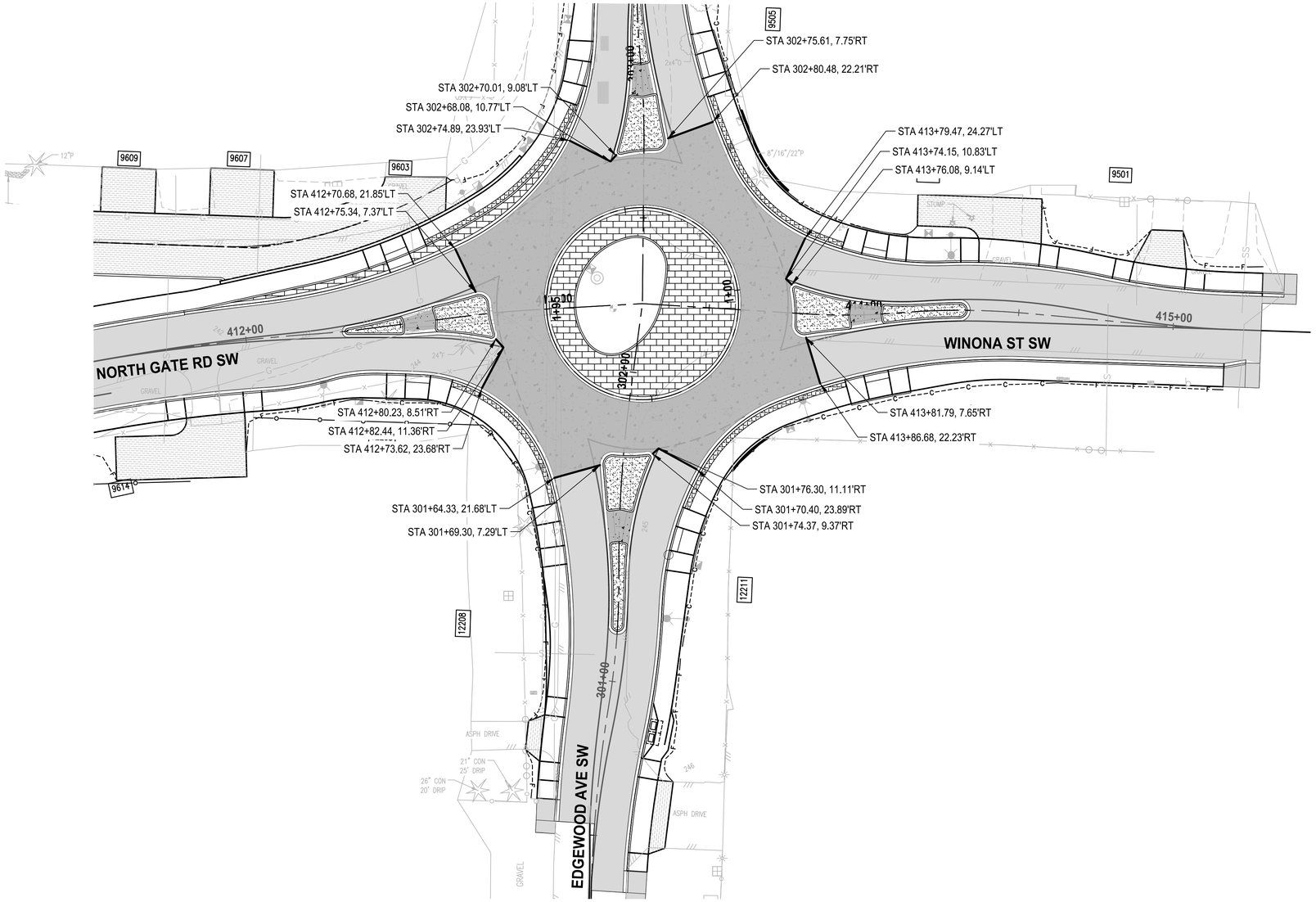


PLAN

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## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00
2. SEE SPECIFICATIONS FOR ADDITIONAL PAVEMENT INFORMATION

## LEGEND

10" CEMENT CONC. PAVEMENT
3" CSTC

6" HMA CLA 1/2 IN PG 58H-22
4" CSTC

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RAB-01
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


Parametrix
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TACOMA, WA 98402
P 253.627.4367
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PROJECT NAME

**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

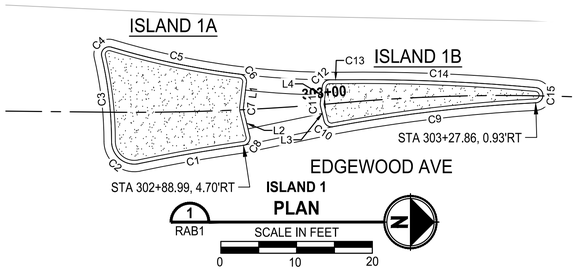
LAKEWOOD, WASHINGTON

# NORTH GATE & EDGEWOOD ROUNDABOUT PAVING PLAN

DRAWING NO. 54 OF 169

**RAB2**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 3:05:47 PM
LAYOUT: RAB02




| SPLITTER ISLAND 1A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C1 | 14.00 | 3.89 | 206.38 | 243.56 | 243.69 | 243.87 |
| C2 | 5.33 | 101.81 | 3.00 | 243.87 | 243.95 | 243.99 |
| C3 | 11.36 | 13.14 | 49.53 | 243.99 | 243.93 | 243.88 |
| C4 | 2.09 | 120.03 | 1.00 | 243.88 | 243.86 | 243.83 |
| C5 | 17.37 | 9.85 | 101.00 | 243.83 | 243.68 | 243.55 |
| C6 | 1.57 | 89.81 | 1.00 | 243.55 | 243.55 | 243.56 |
| L1 | 3.34 | S83° 13' 23.61"E | | 243.56 | 243.59 | 243.62 |
| C7 | 0.35 | 20.25 | 1.00 | 243.62 | 243.63 | 243.63 |
| L2 | 3.48 | N76° 31' 42.76"E | | 243.63 | 243.59 | 243.56 |
| C8 | 1.67 | 95.48 | 1.00 | 243.56 | 243.55 | 243.56 |

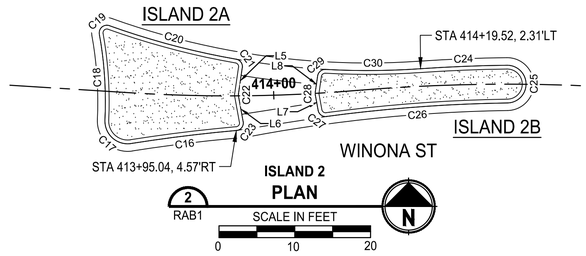
| SPLITTER ISLAND 1B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C9 | 26.97 | 7.69 | 201.00 | 243.12 | 243.24 | 243.39 |
| C10 | 1.52 | 87.11 | 1.00 | 243.39 | 243.40 | 243.42 |
| L3 | 2.06 | N76° 31' 42.76"E | | 243.42 | 243.44 | 243.47 |
| C11 | 0.35 | 20.25 | 1.00 | 243.47 | 243.47 | 243.47 |
| L4 | 2.22 | S83° 13' 23.61"E | | 243.47 | 243.44 | 243.42 |
| C12 | 1.46 | 83.43 | 1.00 | 243.42 | 243.40 | 243.39 |
| C13 | 1.51 | 0.86 | 101.00 | 243.39 | 243.38 | 243.37 |
| C14 | 25.73 | 5.92 | 249.00 | 243.37 | 243.22 | 243.10 |
| C15 | 3.00 | 171.84 | 1.00 | 243.10 | 243.12 | 243.12 |

## GENERAL NOTE:

1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB

| SPLITTER ISLAND 2A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C16 | 13.99 | 3.88 | 206.39 | 244.72 | 244.79 | 244.92 |
| C17 | 5.33 | 101.81 | 3.00 | 244.92 | 244.98 | 245.00 |
| C18 | 11.36 | 13.14 | 49.53 | 245.00 | 244.94 | 244.87 |
| C19 | 2.09 | 120.03 | 1.00 | 244.87 | 244.85 | 244.83 |
| C20 | 17.32 | 9.83 | 101.00 | 244.83 | 244.73 | 244.67 |
| C21 | 1.54 | 88.35 | 1.00 | 244.67 | 244.67 | 244.68 |
| L5 | 3.48 | S8° 14' 27.12"W | | 244.68 | 244.71 | 244.74 |
| C22 | 0.32 | 18.60 | 1.00 | 244.74 | 244.74 | 244.74 |
| L6 | 3.39 | S10° 21' 40.51"E | | 244.74 | 244.73 | 244.72 |
| C23 | 1.66 | 95.27 | 1.00 | 244.72 | 244.72 | 244.72 |

| SPLITTER ISLAND 2B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C24 | 11.41 | 3.28 | 199.00 | 244.74 | 244.81 | 244.90 |
| C25 | 7.82 | 180.00 | 2.49 | 244.90 | 245.00 | 244.89 |
| C26 | 23.95 | 6.83 | 201.00 | 244.89 | 244.75 | 244.69 |
| C27 | 1.52 | 87.32 | 1.00 | 244.69 | 244.69 | 244.70 |
| L7 | 2.07 | S10° 21' 40.51"E | | 244.70 | 244.71 | 244.72 |
| C28 | 0.32 | 18.60 | 1.00 | 244.72 | 244.72 | 244.72 |
| L8 | 2.20 | S8° 14' 27.12"W | | 244.72 | 244.69 | 244.67 |
| C29 | 1.48 | 84.91 | 1.00 | 244.67 | 244.66 | 244.65 |
| C30 | 12.54 | 7.12 | 101.00 | 244.65 | 244.69 | 244.74 |

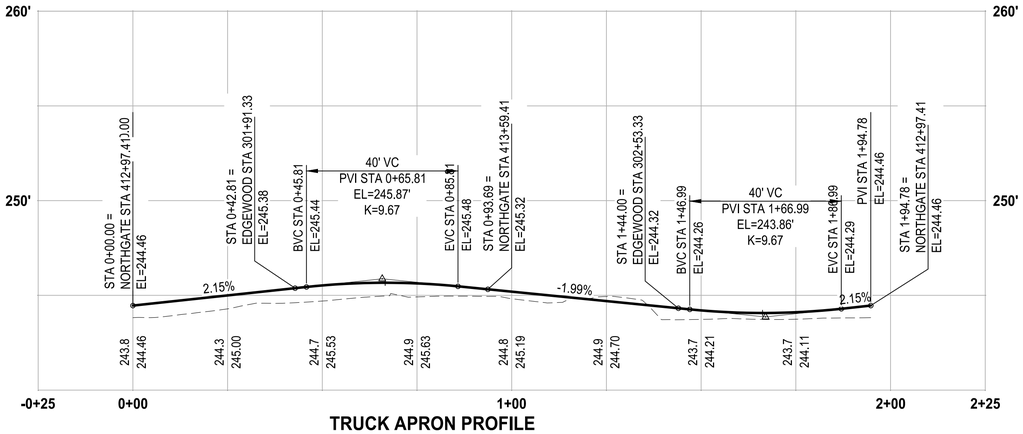






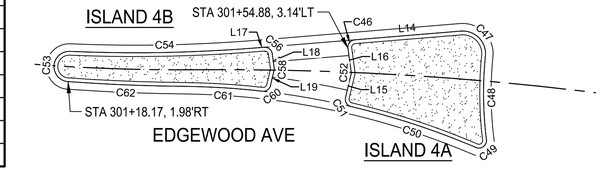
| SPLITTER ISLAND 3B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C40 | 2.97 | 170.03 | 1.00 | 243.29 | 243.30 | 243.30 |
| C41 | 16.94 | 4.83 | 201.00 | 243.30 | 243.41 | 243.52 |
| C42 | 1.51 | 86.78 | 1.00 | 243.52 | 243.54 | 243.55 |
| L11 | 1.81 | S18° 38' 08.02"E | | 243.55 | 243.57 | 243.59 |
| C43 | 0.36 | 20.78 | 1.00 | 243.59 | 243.59 | 243.59 |
| L12 | 2.12 | S2° 08' 52.99"W | | 243.59 | 243.56 | 243.54 |
| C44 | 1.54 | 88.01 | 1.00 | 243.54 | 243.52 | 243.50 |
| L13 | 10.29 | N89° 50' 24.34"W | | 243.50 | 243.43 | 243.37 |
| C45 | 6.77 | 0.77 | 501.00 | 243.37 | 243.33 | 243.29 |

| SPLITTER ISLAND 3A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C31 | 5.33 | 101.80 | 3.00 | 243.91 | 243.97 | 244.03 |
| C32 | 10.21 | 11.82 | 49.53 | 244.03 | 244.12 | 244.18 |
| C33 | 2.09 | 119.56 | 1.00 | 244.18 | 244.17 | 244.14 |
| C34 | 17.02 | 9.56 | 102.00 | 244.14 | 243.90 | 243.73 |
| C35 | 1.57 | 90.02 | 1.00 | 243.73 | 243.72 | 243.72 |
| L9 | 2.60 | N2° 08' 52.99"E | | 243.72 | 243.74 | 243.76 |
| C36 | 0.36 | 20.78 | 1.00 | 243.76 | 243.76 | 243.76 |
| L10 | 3.21 | N18° 38' 08.02"W | | 243.76 | 243.73 | 243.69 |
| C37 | 1.67 | 95.82 | 1.00 | 243.69 | 243.68 | 243.69 |
| C38 | 13.95 | 3.87 | 206.43 | 243.69 | 243.80 | 243.91 |




## TRUCK APRON PROFILE

HORIZ: 1=20
VERT: 1=4




| SPLITTER ISLAND 4B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C53 | 6.23 | 178.35 | 2.00 | 245.04 | 245.12 | 245.03 |
| C54 | 25.06 | 7.14 | 201.00 | 245.03 | 244.83 | 244.73 |
| L17 | 0.60 | N4° 41' 51.57"W | | 244.73 | 244.73 | 244.72 |
| C56 | 1.52 | 86.95 | 1.00 | 244.72 | 244.73 | 244.74 |
| L18 | 1.88 | N82° 15' 14.65"E | | 244.74 | 244.76 | 244.78 |
| C58 | 0.37 | 21.15 | 1.00 | 244.78 | 244.79 | 244.78 |
| L19 | 2.00 | S76° 36' 02.16"E | | 244.78 | 244.77 | 244.76 |
| C60 | 1.45 | 83.05 | 1.00 | 244.76 | 244.75 | 244.75 |
| C61 | 10.36 | 5.88 | 101.00 | 244.75 | 244.77 | 244.82 |
| C62 | 15.31 | 3.52 | 249.00 | 244.82 | 244.92 | 245.04 |

| SPLITTER ISLAND 4A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C46 | 1.62 | 93.05 | 1.00 | 244.75 | 244.74 | 244.73 |
| L14 | 14.05 | N4° 41' 51.57"W | | 244.73 | 244.78 | 244.86 |
| C47 | 5.26 | 100.40 | 3.00 | 244.86 | 244.91 | 244.96 |
| C48 | 11.04 | 12.77 | 49.54 | 244.96 | 245.05 | 245.09 |
| C49 | 2.10 | 120.12 | 1.00 | 245.09 | 245.08 | 245.05 |
| C50 | 17.35 | 9.84 | 101.00 | 245.05 | 244.85 | 244.76 |
| C51 | 1.57 | 90.19 | 1.00 | 244.76 | 244.76 | 244.77 |
| L15 | 3.11 | N76° 36' 02.16"W | | 244.77 | 244.78 | 244.80 |
| C52 | 0.37 | 21.15 | 1.00 | 244.80 | 244.81 | 244.80 |
| L16 | 3.11 | S82° 15' 14.65"W | | 244.80 | 244.77 | 244.75 |

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RAB-01
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE — STATE OF WASHINGTON — 41884 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# NORTH GATE & EDGEWOOD ROUNDABOUT GRADING DETAILS

DRAWING NO. 55 OF 169
RAB3


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: taylakat DATE: Wednesday, January 12, 2022 3:08:23 PM
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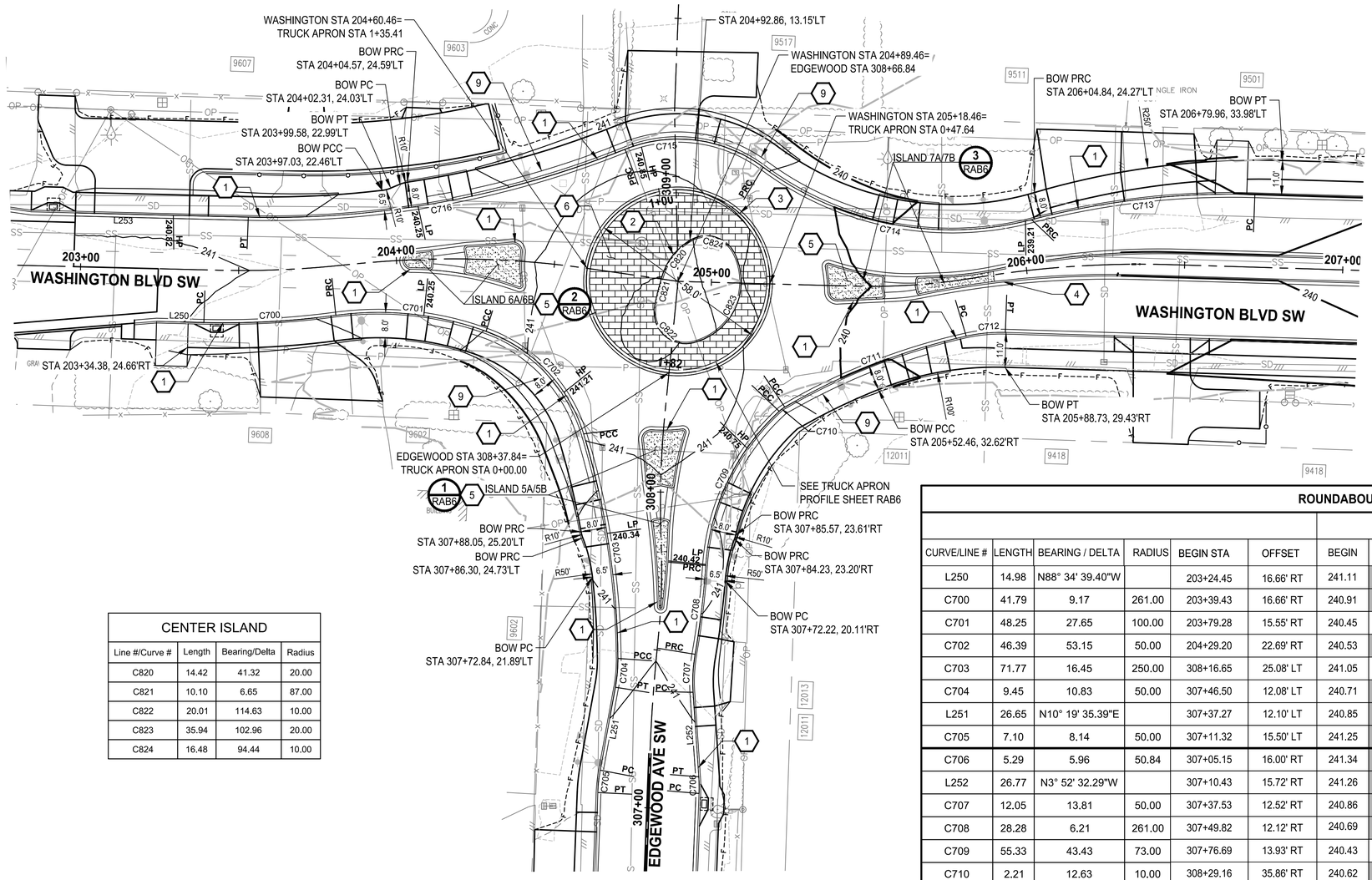


## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## CONSTRUCTION NOTES

1 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04

2 INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19

3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)

4 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04

5 INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20

6 INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19

7 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19

8 INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01

9 INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

| CENTER ISLAND | | | |
|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius |
| C820 | 14.42 | 41.32 | 20.00 |
| C821 | 10.10 | 6.65 | 87.00 |
| C822 | 20.01 | 114.63 | 10.00 |
| C823 | 35.94 | 102.96 | 20.00 |
| C824 | 16.48 | 94.44 | 10.00 |

PLAN
SCALE IN FEET
0 20 40
N

## ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| L250 | 14.98 | N88° 34' 39.40"W | | 203+24.45 | 16.66' RT | 241.11 | | | | 241.01 | | | | 240.91 | 203+39.43 | 16.66' RT |
| C700 | 41.79 | 9.17 | 261.00 | 203+39.43 | 16.66' RT | 240.91 | | 240.79 | | 240.65 | | 240.54 | | 240.45 | 203+79.28 | 15.55' RT |
| C701 | 48.25 | 27.65 | 100.00 | 203+79.28 | 15.55' RT | 240.45 | 240.40 | 240.35 | 240.30 | 240.26 | 240.25 | 240.30 | 240.39 | 240.53 | 204+29.20 | 22.69' RT |
| C702 | 46.39 | 53.15 | 50.00 | 204+29.20 | 22.69' RT | 240.53 | | 240.91 | | 241.16 | | 241.21 | | 241.05 | 308+16.65 | 25.08' LT |
| C703 | 71.77 | 16.45 | 250.00 | 308+16.65 | 25.08' LT | 241.05 | 240.80 | 240.52 | 240.37 | 240.35 | 240.40 | 240.48 | 240.58 | 240.71 | 307+46.50 | 12.08' LT |
| C704 | 9.45 | 10.83 | 50.00 | 307+46.50 | 12.08' LT | 240.71 | | | | 240.78 | | | | 240.85 | 307+37.27 | 12.10' LT |
| L251 | 26.65 | N10° 19' 35.39"E | | 307+37.27 | 12.10' LT | 240.85 | | 240.95 | | 241.05 | | 241.15 | | 241.25 | 307+11.32 | 15.50' LT |
| C705 | 7.10 | 8.14 | 50.00 | 307+11.32 | 15.50' LT | 241.25 | | | | 241.33 | | | | 241.35 | 307+04.24 | 16.00' LT |
| C706 | 5.29 | 5.96 | 50.84 | 307+05.15 | 16.00' RT | 241.34 | | | | 241.30 | | | | 241.26 | 307+10.43 | 15.72' RT |
| L252 | 26.77 | N3° 52' 32.29"W | | 307+10.43 | 15.72' RT | 241.26 | | 241.16 | | 241.06 | | 240.96 | | 240.86 | 307+37.53 | 12.52' RT |
| C707 | 12.05 | 13.81 | 50.00 | 307+37.53 | 12.52' RT | 240.86 | | | | 240.77 | | | | 240.69 | 307+49.82 | 12.12' RT |
| C708 | 28.28 | 6.21 | 261.00 | 307+49.82 | 12.12' RT | 240.69 | | 240.57 | | 240.49 | | 240.44 | | 240.43 | 307+76.69 | 13.93' RT |
| C709 | 55.33 | 43.43 | 73.00 | 307+76.69 | 13.93' RT | 240.43 | 240.44 | 240.49 | 240.57 | 240.67 | 240.73 | 240.75 | 240.71 | 240.62 | 308+29.16 | 35.86' RT |
| C710 | 2.21 | 12.63 | 10.00 | 308+29.16 | 35.86' RT | 240.62 | | | | 240.60 | | | | 240.58 | 308+30.64 | 37.49' RT |
| C711 | 61.84 | 17.72 | 200.00 | 308+30.64 | 37.49' RT | 240.58 | 240.41 | 240.17 | 239.87 | 239.62 | 239.45 | 239.36 | 239.31 | 239.27 | 205+78.19 | 17.83' RT |
| C712 | 12.42 | 14.23 | 50.00 | 205+78.19 | 17.83' RT | 239.27 | | | | 239.23 | | | | 239.20 | 205+90.54 | 18.56' RT |
| C713 | 71.25 | 16.33 | 250.00 | 206+71.52 | 22.98' LT | 239.55 | 239.48 | 239.44 | 239.36 | 239.33 | 239.31 | 239.26 | 239.22 | 239.21 | 206+03.21 | 15.85' LT |
| C714 | 89.46 | 51.25 | 100.00 | 206+03.21 | 15.85' LT | 239.21 | 239.22 | 239.27 | 239.35 | 239.52 | 239.81 | 240.09 | 240.34 | 240.54 | 205+15.34 | 36.82' LT |
| C715 | 45.96 | 58.52 | 45.00 | 205+15.34 | 36.82' LT | 240.54 | | 240.69 | | 240.79 | | 240.86 | | 240.85 | 204+66.95 | 38.97' LT |
| C716 | 121.86 | 23.27 | 300.00 | 204+66.95 | 38.97' LT | 240.85 | 240.77 | 240.61 | 240.41 | 240.27 | 240.26 | 240.40 | 240.53 | 240.66 | 203+53.15 | 16.86' LT |
| L253 | 54.64 | S88° 34' 39.40"E | | 203+53.15 | 16.86' LT | 240.66 | 240.72 | 240.77 | 240.81 | 240.82 | 240.80 | 240.77 | 240.74 | 240.70 | 202+97.97 | 17.00' LT |

Know what's below. Call before you dig.

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & EDGEWOOD ROUNDABOUT GRADING PLAN

DRAWING NO. 56 OF 169
RAB4


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toyokot DATE: Wednesday, January 12, 2022 3:29:53 PM
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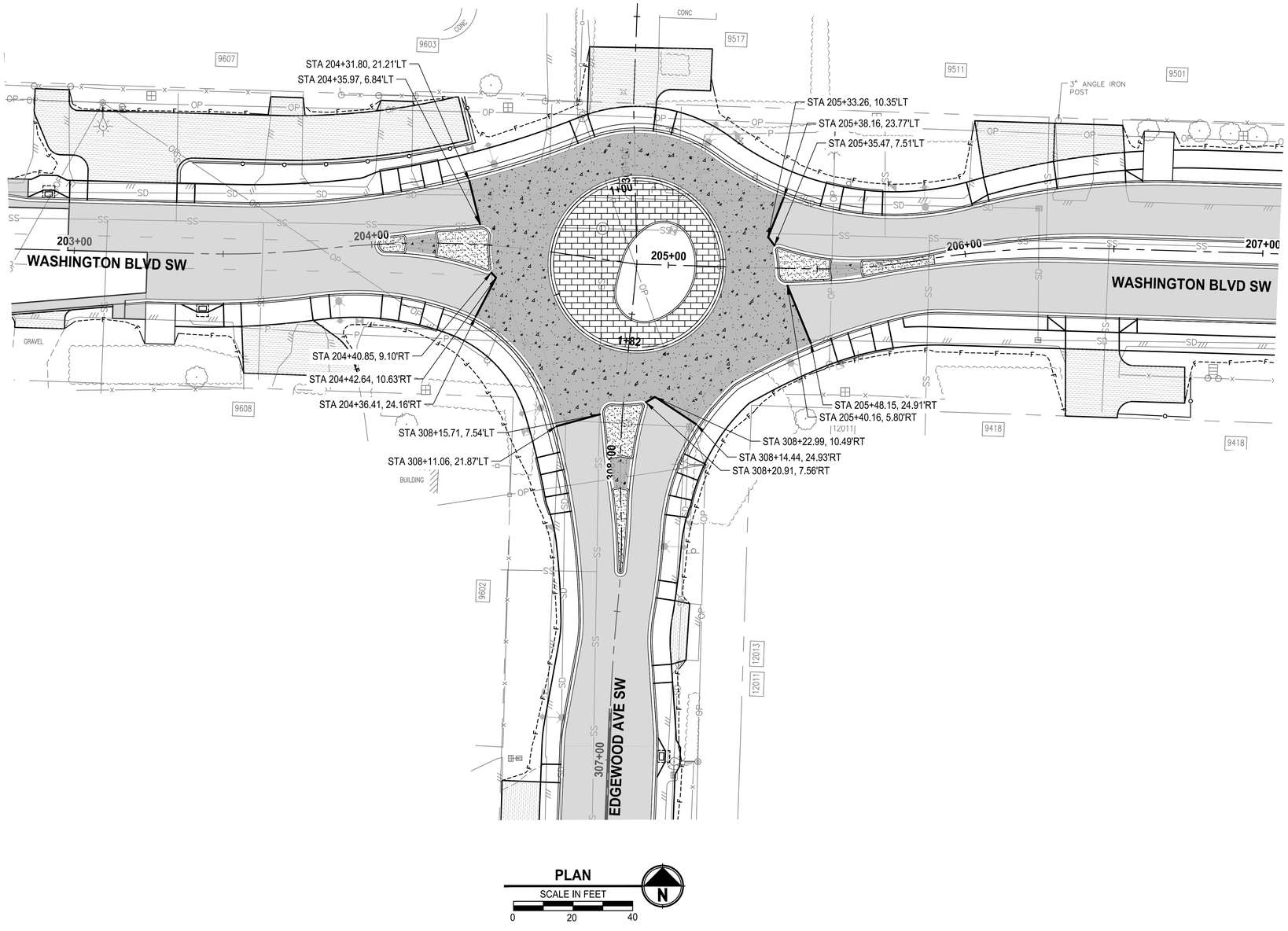


PLAN
SCALE IN FEET
0 20 40

## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00
2. SEE SPECIFICATIONS FOR ADDITIONAL PAVEMENT INFORMATION

## LEGEND

10" CEMENT CONC. PAVEMENT
3" CSTC

6" HMA CLA 1/2 IN PG 58H-22
4" CSTC

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

811 Know what's below. Call before you dig.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED SMC
DRAWN CJW
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

KEVIN L. HOUSER STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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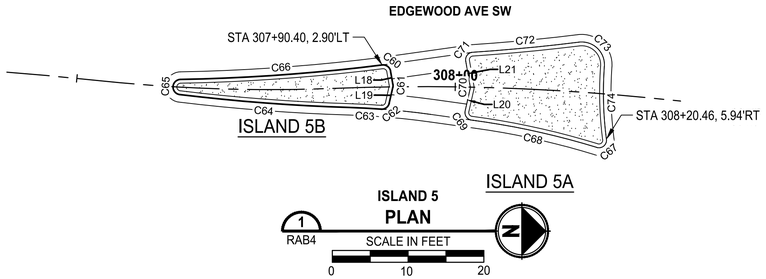
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & EDGEWOOD ROUNDABOUT PAVING PLAN

DRAWING NO. 57 OF 169
RAB5

LAYOUT: RAB5 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 3:30:09 PM




| SPLITTER ISLAND 5B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C60 | 1.52 | 87.17 | 1.00 | 240.69 | 240.71 | 240.73 |
| L18 | 1.76 | S80° 01' 35.55"W | | 240.73 | 240.75 | 240.77 |
| C61 | 0.40 | 22.79 | 1.00 | 240.77 | 240.78 | 240.77 |
| L19 | 2.16 | N77° 10' 46.97"W | | 240.77 | 240.76 | 240.74 |
| C62 | 1.42 | 81.36 | 1.00 | 240.74 | 240.72 | 240.71 |
| C63 | 4.23 | 2.40 | 101.00 | 240.71 | 240.69 | 240.68 |
| C64 | 22.44 | 5.16 | 249.00 | 240.68 | 240.66 | 240.73 |
| C65 | 3.00 | 172.00 | 1.00 | 240.73 | 240.76 | 240.73 |
| C66 | 26.70 | 6.09 | 251.00 | 240.73 | 240.65 | 240.69 |

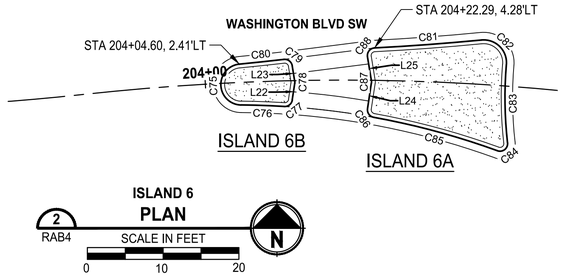
| SPLITTER ISLAND 5A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C67 | 2.00 | 114.49 | 1.00 | 241.21 | 241.19 | 241.16 |
| C68 | 16.92 | 9.54 | 101.66 | 241.16 | 241.03 | 240.87 |
| C69 | 1.66 | 95.28 | 1.00 | 240.87 | 240.87 | 240.87 |
| L20 | 2.93 | N77° 10' 46.97"W | | 240.87 | 240.90 | 240.93 |
| C70 | 0.40 | 22.79 | 1.00 | 240.93 | 240.93 | 240.93 |
| L21 | 3.37 | S80° 01' 35.55"W | | 240.93 | 240.89 | 240.85 |
| C71 | 1.68 | 96.19 | 1.00 | 240.85 | 240.83 | 240.84 |
| C72 | 14.08 | 3.28 | 246.18 | 240.84 | 240.99 | 241.15 |
| C73 | 5.30 | 101.23 | 3.00 | 241.15 | 241.22 | 241.24 |
| C74 | 9.62 | 11.59 | 47.58 | 241.24 | 241.28 | 241.21 |

## GENERAL NOTE:

1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB

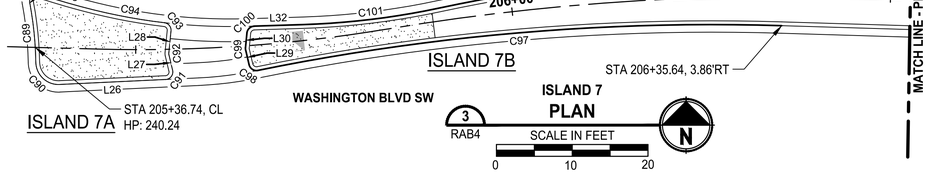
| SPLITTER ISLAND 6B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C75 | 8.21 | 174.17 | 2.70 | 240.56 | 240.61 | 240.55 |
| C76 | 5.69 | 3.23 | 101.00 | 240.55 | 240.55 | 240.55 |
| C77 | 1.48 | 85.01 | 1.00 | 240.55 | 240.55 | 240.57 |
| L22 | 2.21 | S8° 32' 11.15"W | | 240.57 | 240.59 | 240.61 |
| C78 | 0.31 | 17.82 | 1.00 | 240.61 | 240.62 | 240.62 |
| L23 | 2.05 | S9° 16' 54.18"E | | 240.62 | 240.60 | 240.58 |
| C79 | 1.52 | 87.35 | 1.00 | 240.58 | 240.56 | 240.56 |
| C80 | 5.91 | 1.12 | 301.00 | 240.56 | 240.56 | 240.56 |

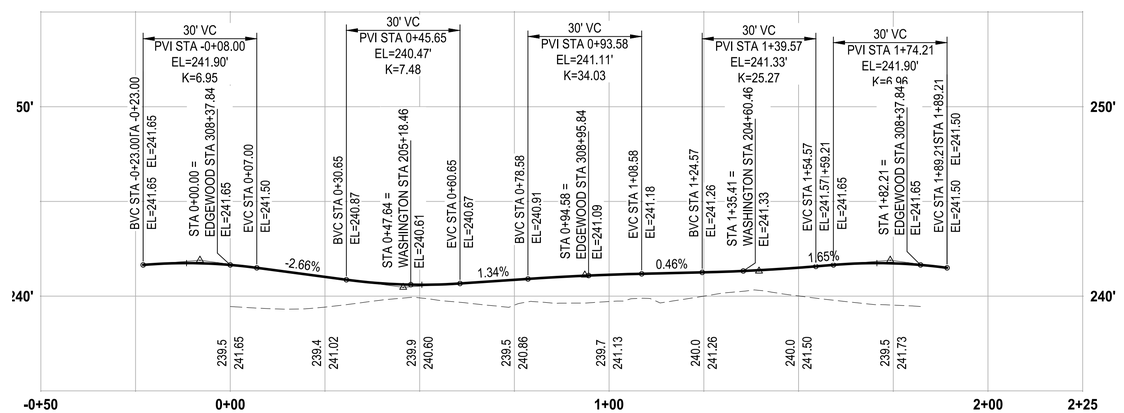
| SPLITTER ISLAND 6A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C81 | 14.15 | 2.64 | 306.71 | 240.60 | 240.68 | 240.78 |
| C82 | 5.25 | 100.36 | 3.00 | 240.78 | 240.83 | 240.87 |
| C83 | 10.33 | 11.31 | 52.35 | 240.87 | 240.92 | 240.88 |
| C84 | 2.03 | 116.40 | 1.00 | 240.88 | 240.87 | 240.86 |
| C85 | 16.94 | 9.61 | 101.00 | 240.86 | 240.70 | 240.60 |
| C86 | 1.54 | 88.24 | 1.00 | 240.60 | 240.60 | 240.61 |
| L24 | 3.44 | N8° 32' 11.15"E | | 240.61 | 240.64 | 240.67 |
| C87 | 0.31 | 17.82 | 1.00 | 240.67 | 240.68 | 240.68 |
| L25 | 3.19 | N9° 16' 54.18"W | | 240.68 | 240.65 | 240.62 |
| C88 | 1.68 | 96.38 | 1.00 | 240.62 | 240.60 | 240.60 |




| SPLITTER ISLAND 7A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C89 | 7.86 | 9.66 | 46.64 | 240.20 | 240.22 | 240.22 |
| C90 | 4.67 | 89.17 | 3.00 | 240.22 | 240.19 | 240.13 |
| L26 | 14.12 | S87° 18' 00.99"W | | 240.13 | 239.99 | 239.87 |
| C91 | 1.75 | 100.54 | 1.00 | 239.87 | 239.87 | 239.88 |
| L27 | 2.03 | S13° 14' 55.85"E | | 239.88 | 239.90 | 239.93 |
| C92 | 0.33 | 18.87 | 1.00 | 239.93 | 239.93 | 239.93 |
| L28 | 2.88 | S5° 37' 26.62"W | | 239.93 | 239.91 | 239.89 |
| C93 | 1.55 | 88.96 | 1.00 | 239.89 | 239.88 | 239.89 |
| C94 | 9.42 | 7.20 | 75.00 | 239.89 | 239.95 | 240.03 |
| C95 | 7.49 | 4.21 | 102.00 | 240.03 | 240.09 | 240.16 |
| C96 | 2.07 | 118.74 | 1.00 | 240.16 | 240.18 | 240.20 |

| SPLITTER ISLAND 7B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C97 | 69.53 | 13.24 | 301.00 | 239.64 | 239.52 | 239.72 |
| C98 | 1.54 | 88.25 | 1.00 | 239.72 | 239.73 | 239.75 |
| L29 | 1.98 | N13° 14' 55.85"W | | 239.75 | 239.78 | 239.80 |
| C99 | 0.33 | 18.87 | 1.00 | 239.80 | 239.81 | 239.80 |
| L30 | 1.94 | N5° 37' 26.62"E | | 239.80 | 239.80 | 239.77 |
| C100 | 1.44 | 82.61 | 1.00 | 239.77 | 239.76 | 239.74 |
| L32 | 6.45 | N88° 13' 25.52"E | | 239.74 | 239.71 | 239.68 |
| C101 | 17.96 | 10.19 | 101.00 | 239.68 | 239.62 | 239.57 |
| C102 | 59.57 | 13.71 | 249.00 | 239.57 | 239.55 | 239.75 |




## TRUCK APRON PROFILE

HORIZ: 1=20
VERT: 1=4

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LAYOUT: RAB6 PLOTTED BY: toykokat DATE: Wednesday, January 12, 2022 3:32:20 PM

| | REVISIONS | DATE | BY |
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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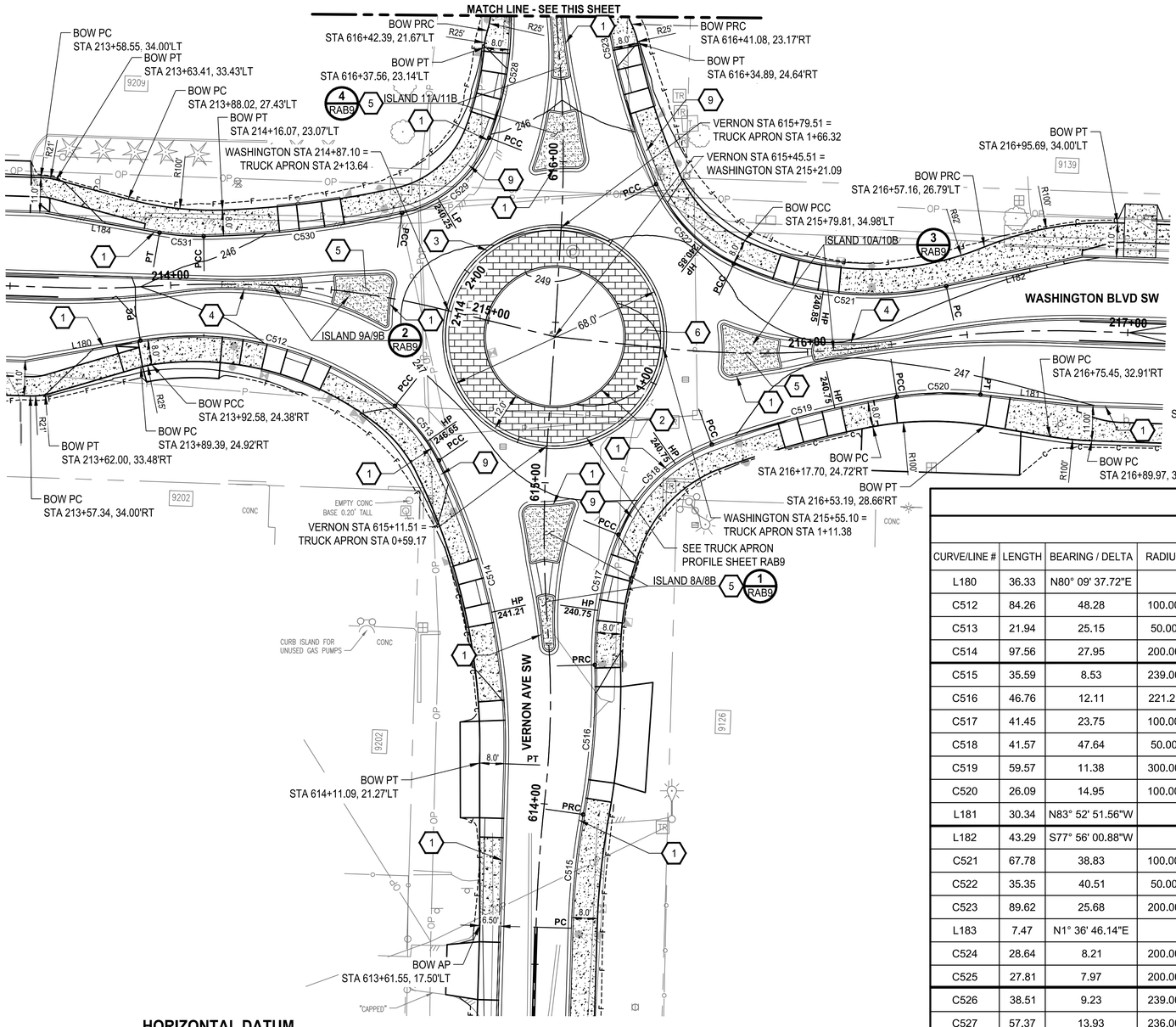
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & EDGEWOOD ROUNDABOUT GRADING DETAILS

DRAWING NO. 58 OF 169
RAB6




## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## (X) CONSTRUCTION NOTES

1 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04

2 INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19

3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)

4 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04

5 INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20

6 INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19

7 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19

8 INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01

9 INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

## ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| L180 | 36.33 | N80° 09' 37.72"E | | 213+55.43 | 23.00' RT | 245.27 | | 246.61 | | 245.67 | | 245.62 | | 245.74 | 213+89.65 | 16.65' RT |
| C512 | 84.26 | 48.28 | 100.00 | 213+89.56 | 16.65' RT | 245.74 | 245.76 | 245.83 | 245.93 | 246.03 | 246.19 | 246.35 | 246.51 | 246.67 | 214+77.04 | 32.57' RT |
| C513 | 21.94 | 25.15 | 50.00 | 214+77.04 | 32.57' RT | 246.67 | | 246.73 | | 246.76 | | 246.77 | | 246.74 | 615+05.26 | 33.31' LT |
| C514 | 97.56 | 27.95 | 200.00 | 615+05.26 | 33.31' LT | 246.74 | 246.62 | 246.49 | 246.35 | 246.27 | 246.32 | 246.45 | 246.59 | 246.73 | 614+11.51 | 13.28' LT |
| C515 | 35.59 | 8.53 | 239.00 | 613+61.55 | 10.00' RT | 247.21 | | 247.13 | | 247.05 | | 246.95 | | 246.89 | 613+97.95 | 12.35' RT |
| C516 | 46.76 | 12.11 | 221.21 | 613+97.95 | 12.35' RT | 246.89 | | 246.78 | | 246.64 | | 246.61 | | 246.42 | 614+42.80 | 13.97' RT |
| C517 | 41.45 | 23.75 | 100.00 | 614+42.80 | 13.97' RT | 246.42 | 246.38 | 246.33 | 246.30 | 246.31 | 246.36 | 246.44 | 246.56 | 246.69 | 614+83.80 | 23.10' RT |
| C518 | 41.57 | 47.64 | 50.00 | 614+83.80 | 23.10' RT | 246.69 | 246.82 | 246.95 | 247.08 | 247.17 | 247.21 | 247.21 | 247.17 | 247.10 | 215+71.54 | 28.74' RT |
| C519 | 59.57 | 11.38 | 300.00 | 215+71.54 | 28.74' RT | 247.10 | 247.00 | 246.91 | 246.81 | 246.74 | 246.71 | 246.71 | 246.74 | 246.79 | 216+25.72 | 16.29' RT |
| C520 | 26.09 | 14.95 | 100.00 | 216+25.72 | 16.29' RT | 246.79 | | 246.82 | | 246.85 | | 246.87 | | 246.89 | 216+52.56 | 18.89' RT |
| L181 | 30.34 | N83° 52' 51.56"W | | 216+52.56 | 18.89' RT | 246.89 | | 246.91 | | 246.93 | | 246.96 | | 246.98 | 216+84.89 | 22.99' RT |
| L182 | 43.29 | S77° 56' 00.88"W | | 216+85.25 | 23.01' LT | 246.98 | | 247.23 | | 247.15 | | 247.06 | | 246.97 | 216+45.14 | 15.66' LT |
| C521 | 67.78 | 38.83 | 100.00 | 216+45.14 | 15.66' LT | 246.97 | 246.88 | 246.81 | 246.71 | 246.68 | 246.68 | 246.70 | 246.75 | 246.82 | 215+76.81 | 34.98' LT |
| C522 | 35.35 | 40.51 | 50.00 | 215+76.81 | 34.98' LT | 246.82 | | 246.90 | | 246.88 | | 246.72 | | 246.48 | 615+93.65 | 28.95' RT |
| C523 | 89.62 | 25.68 | 200.00 | 615+93.65 | 28.95' RT | 246.48 | 246.17 | 245.87 | 245.61 | 245.39 | 245.19 | 244.99 | 244.80 | 244.70 | 616+81.10 | 13.80' RT |
| L183 | 7.47 | N1° 36' 46.14"E | | 616+81.10 | 13.80' RT | 244.70 | | | | 244.67 | | | | 244.63 | 616+88.92 | 13.48' RT |
| C524 | 28.64 | 8.21 | 200.00 | 616+88.92 | 13.48' RT | 244.63 | | 244.57 | | 244.51 | | 244.45 | | 244.39 | 617+17.40 | 13.69' RT |
| C525 | 27.81 | 7.97 | 200.00 | 617+17.40 | 13.69' RT | 244.39 | | 244.44 | | 244.27 | | 244.24 | | 244.16 | 617+44.51 | 15.09' RT |
| C526 | 38.51 | 9.23 | 239.00 | 617+44.51 | 11.00' LT | 244.21 | | 244.28 | | 244.35 | | 244.43 | | 244.50 | 617+05.29 | 12.72' LT |
| C527 | 57.37 | 13.93 | 236.00 | 617+05.29 | 12.72' LT | 244.50 | 244.56 | 244.61 | 244.66 | 244.71 | 244.81 | 244.92 | 245.04 | 245.16 | 616+49.92 | 14.05' LT |
| C528 | 42.60 | 24.41 | 100.00 | 616+49.92 | 14.05' LT | 246.16 | 245.25 | 245.34 | 245.43 | 245.52 | 245.63 | 245.76 | 245.89 | 246.03 | 616+07.76 | 22.98' LT |
| C529 | 37.27 | 56.19 | 38.00 | 616+07.76 | 22.98' LT | 246.03 | | 246.31 | | 246.48 | | 246.51 | | 246.42 | 214+67.59 | 26.74' LT |
| C530 | 62.27 | 11.89 | 300.00 | 214+67.59 | 26.74' LT | 246.42 | 246.35 | 246.27 | 246.19 | 246.11 | 246.04 | 245.96 | 245.88 | 245.80 | 214+10.44 | 14.95' LT |
| C531 | 13.80 | 10.55 | 75.00 | 214+10.44 | 14.95' LT | 245.80 | | | | 245.73 | | | | 245.67 | 213+97.31 | 16.46' LT |
| L184 | 36.00 | S80° 11' 59.86"E | | 213+97.31 | 16.46' LT | 245.67 | | 245.58 | | 245.49 | | 245.39 | | 245.29 | 213+60.31 | 23.00' LT |

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

PLAN
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE — STATE OF WASHINGTON — 41824 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & VERNON ROUNDABOUT GRADING PLAN

DRAWING NO. 59 OF 169
RAB7


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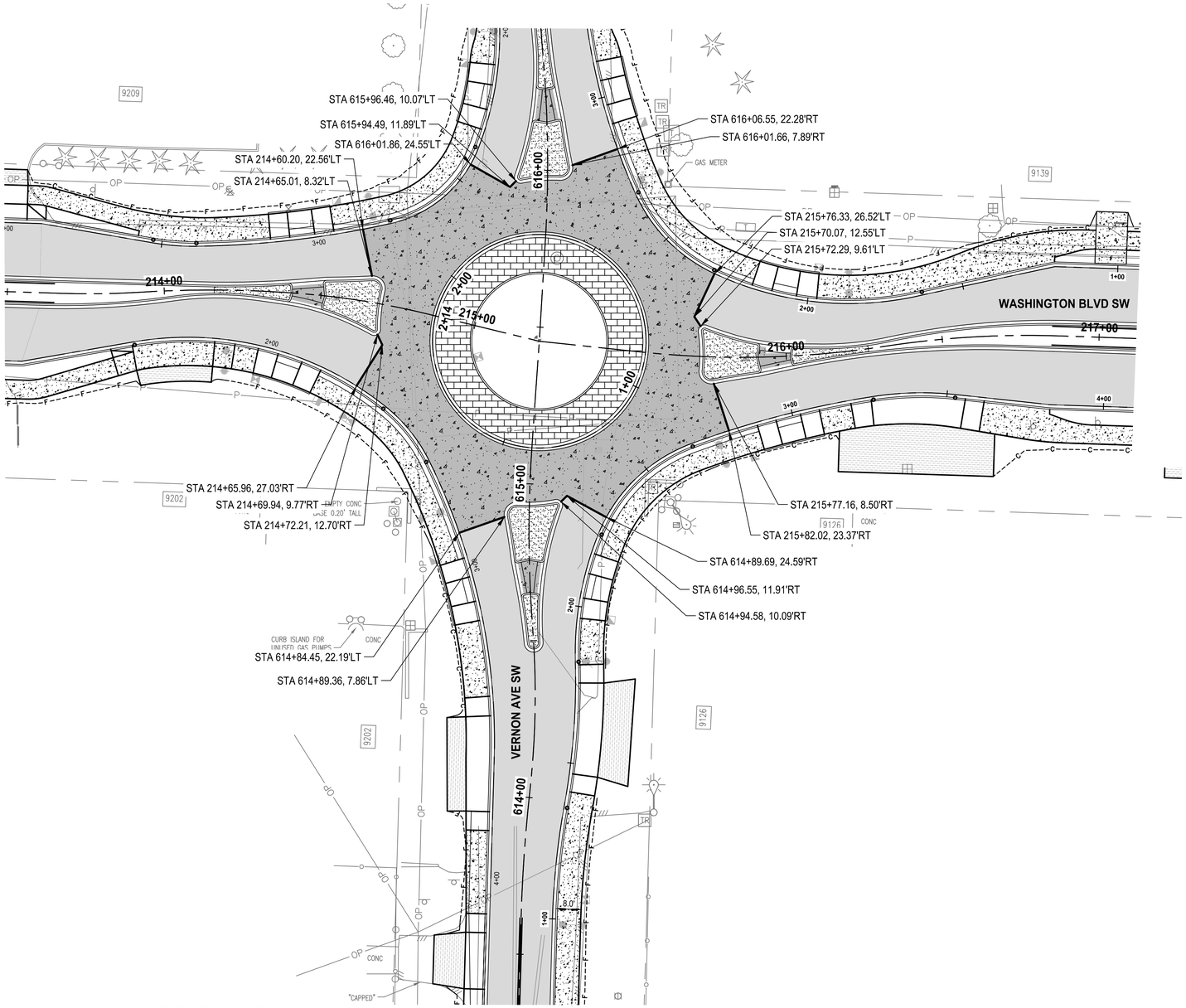


## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00
2. SEE SPECIFICATIONS FOR ADDITIONAL PAVEMENT INFORMATION

## LEGEND

10" CEMENT CONC. PAVEMENT
3" CSTC

6" HMA CLA 1/2 IN PG 58H-22
4" CSTC

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41884 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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TACOMA, WA 98402
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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & VERNON ROUNDABOUT PAVING PLAN

DRAWING NO.
60 OF 169
RAB8


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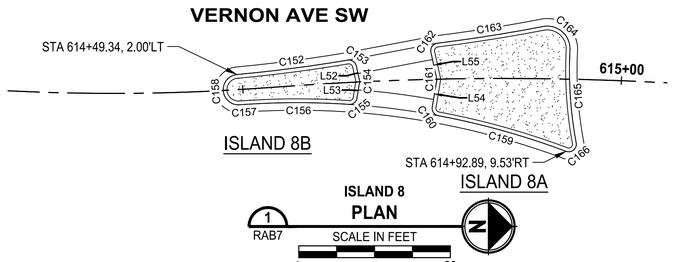
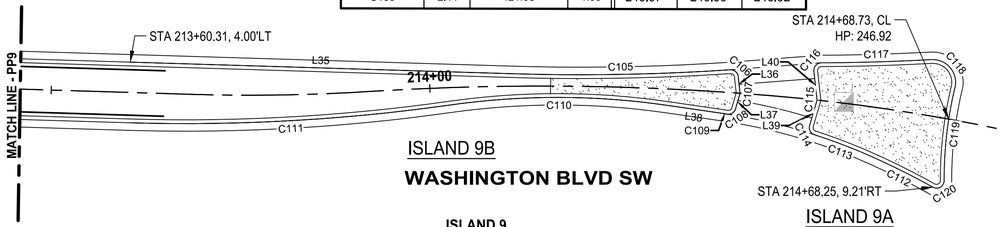



| SPLITTER ISLAND 8B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C152 | 14.74 | 4.20 | 201.00 | 246.61 | 246.57 | 246.55 |
| C153 | 1.52 | 87.00 | 1.00 | 246.55 | 246.56 | 246.57 |
| L52 | 1.88 | S77° 28' 49.34"W | | 246.57 | 246.59 | 246.61 |
| C154 | 0.38 | 22.03 | 1.00 | 246.61 | 246.61 | 246.61 |
| L53 | 2.04 | N80° 29' 08.81"W | | 246.61 | 246.59 | 246.58 |
| C155 | 1.47 | 84.34 | 1.00 | 246.58 | 246.56 | 246.56 |
| C156 | 13.32 | 7.56 | 101.00 | 246.56 | 246.57 | 246.60 |
| C157 | 1.17 | 0.32 | 209.00 | 246.60 | 246.60 | 246.61 |
| C158 | 6.22 | 178.07 | 2.00 | 246.61 | 246.66 | 246.61 |

| SPLITTER ISLAND 8A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C159 | 17.52 | 9.94 | 101.00 | 246.92 | 246.73 | 246.61 |
| C160 | 1.55 | 88.91 | 1.00 | 246.61 | 246.61 | 246.62 |
| L54 | 3.51 | N80° 29' 08.81"W | | 246.62 | 246.65 | 246.67 |
| C161 | 0.38 | 22.03 | 1.00 | 246.67 | 246.67 | 246.67 |
| L55 | 3.45 | S77° 28' 49.34"W | | 246.67 | 246.64 | 246.61 |
| C162 | 1.67 | 95.51 | 1.00 | 246.61 | 246.60 | 246.60 |
| C163 | 14.10 | 3.92 | 206.25 | 246.60 | 246.67 | 246.77 |
| C164 | 5.44 | 103.80 | 3.00 | 246.77 | 246.82 | 246.87 |
| C165 | 12.30 | 13.42 | 52.50 | 246.87 | 246.91 | 246.97 |
| C166 | 2.11 | 121.08 | 1.00 | 246.97 | 246.96 | 246.92 |

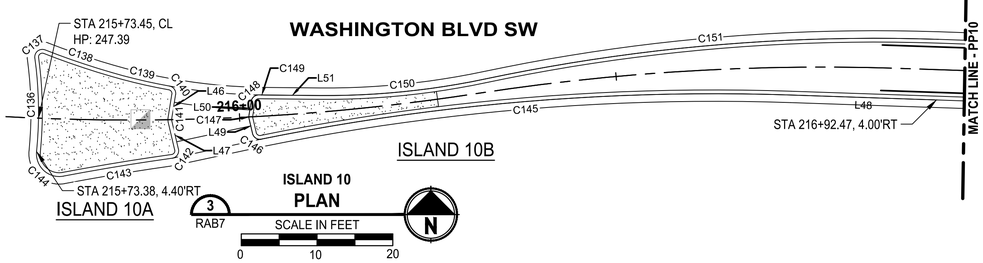
**GENERAL NOTE:**

1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB



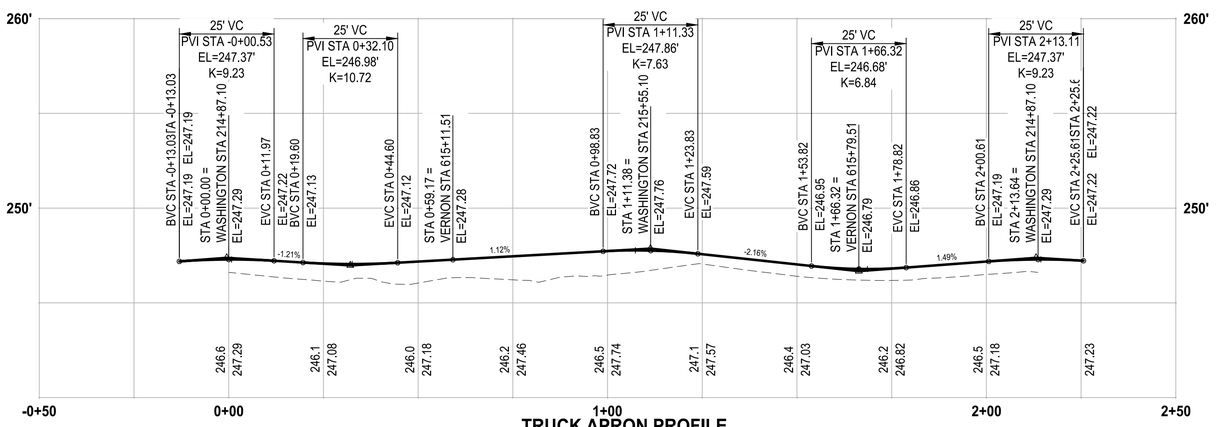

| SPLITTER ISLAND 9B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| L35 | 50.28 | N88° 15' 36.73"W | | 245.67 | 245.89 | 246.13 |
| C105 | 28.94 | 5.51 | 301.00 | 246.13 | 246.25 | 246.39 |
| C106 | 1.53 | 87.52 | 1.00 | 246.39 | 246.40 | 246.42 |
| L36 | 2.03 | N6° 15' 00.51"W | | 246.42 | 246.44 | 246.46 |
| C107 | 0.39 | 22.63 | 1.00 | 246.46 | 246.47 | 246.46 |
| L37 | 1.91 | N16° 22' 30.45"E | | 246.46 | 246.45 | 246.43 |
| C108 | 1.44 | 82.40 | 1.00 | 246.43 | 246.41 | 246.40 |
| C109 | 0.66 | 0.51 | 75.00 | 246.40 | 246.40 | 246.39 |
| L38 | 7.28 | S81° 43' 46.25"E | | 246.39 | 246.35 | 246.31 |
| C110 | 28.79 | 16.33 | 101.00 | 246.31 | 246.19 | 246.05 |
| C111 | 42.59 | 9.80 | 249.00 | 245.05 | 245.85 | 245.67 |

| SPLITTER ISLAND 9A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C112 | 9.16 | 5.14 | 102.00 | 246.81 | 246.72 | 246.66 |
| C113 | 7.94 | 6.07 | 75.00 | 246.66 | 246.60 | 246.55 |
| C114 | 1.55 | 88.53 | 1.00 | 246.55 | 246.54 | 246.55 |
| L39 | 3.27 | S16° 22' 30.45"W | | 246.55 | 246.58 | 246.61 |
| C115 | 0.39 | 22.63 | 1.00 | 246.61 | 246.61 | 246.61 |
| L40 | 3.64 | S6° 15' 00.51"E | | 246.61 | 246.57 | 246.53 |
| C116 | 1.67 | 95.93 | 1.00 | 246.53 | 246.52 | 246.52 |
| C117 | 14.55 | 2.69 | 309.77 | 246.52 | 246.62 | 246.72 |
| C118 | 5.57 | 106.37 | 3.00 | 246.72 | 246.78 | 246.85 |
| C119 | 12.37 | 13.51 | 52.46 | 246.85 | 246.90 | 246.86 |
| C120 | 2.08 | 119.20 | 1.00 | 246.86 | 246.85 | 246.81 |



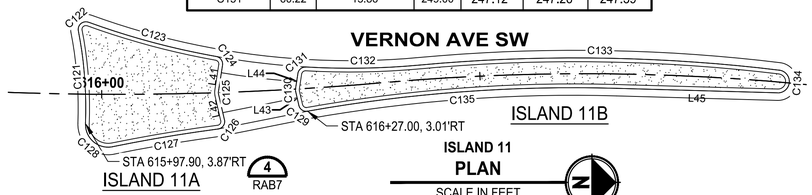

| SPLITTER ISLAND 10A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C136 | 12.37 | 13.51 | 52.46 | 247.35 | 247.36 | 247.31 |
| C137 | 2.08 | 119.20 | 1.00 | 247.31 | 247.28 | 247.23 |
| C138 | 9.30 | 5.22 | 102.00 | 247.23 | 247.16 | 247.12 |
| C139 | 7.81 | 5.97 | 75.00 | 247.12 | 247.09 | 247.06 |
| C140 | 1.55 | 88.88 | 1.00 | 247.06 | 247.06 | 247.08 |
| L46 | 3.16 | N9° 04' 11.72"E | | 247.08 | 247.11 | 247.14 |
| C141 | 0.39 | 22.24 | 1.00 | 247.14 | 247.14 | 247.14 |
| L47 | 3.75 | N13° 10' 26.45"W | | 247.14 | 247.11 | 247.07 |
| C142 | 1.66 | 95.19 | 1.00 | 247.07 | 247.06 | 247.06 |
| C143 | 14.53 | 2.69 | 309.83 | 247.06 | 247.14 | 247.24 |
| C144 | 5.57 | 106.36 | 3.00 | 247.24 | 247.30 | 247.35 |

| SPLITTER ISLAND 10B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| L48 | 19.21 | S88° 04' 00.20"E | | 247.39 | 247.35 | 247.31 |
| C145 | 70.30 | 13.38 | 301.00 | 247.31 | 247.14 | 247.01 |
| C146 | 1.54 | 88.27 | 1.00 | 247.01 | 247.02 | 247.03 |
| L49 | 2.02 | S13° 10' 26.45"E | | 247.03 | 247.05 | 247.07 |
| C147 | 0.39 | 22.24 | 1.00 | 247.07 | 247.07 | 247.07 |
| L50 | 1.91 | S9° 04' 11.72"W | | 247.07 | 247.05 | 247.03 |
| C148 | 1.43 | 82.05 | 1.00 | 247.03 | 247.02 | 247.01 |
| C149 | 0.79 | 0.60 | 75.00 | 247.01 | 247.01 | 247.01 |
| L51 | 7.28 | N89° 29' 02.08"W | | 247.01 | 247.00 | 247.01 |
| C150 | 21.93 | 12.27 | 102.41 | 247.01 | 247.06 | 247.12 |
| C151 | 60.22 | 13.86 | 249.00 | 247.12 | 247.26 | 247.39 |




**TRUCK APRON PROFILE**

HORIZ: 1=20
VERT: 1=4




| SPLITTER ISLAND 11A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C121 | 12.30 | 13.42 | 52.50 | 246.37 | 246.41 | 246.44 |
| C122 | 2.11 | 121.08 | 1.00 | 246.44 | 246.40 | 246.37 |
| C123 | 17.51 | 9.94 | 101.00 | 246.37 | 246.18 | 246.01 |
| C124 | 1.55 | 88.79 | 1.00 | 246.01 | 246.01 | 246.01 |
| L41 | 3.52 | N81° 09' 56.70"W | | 246.01 | 246.04 | 246.07 |
| C125 | 0.38 | 21.85 | 1.00 | 246.07 | 246.08 | 246.07 |
| L42 | 3.45 | S76° 58' 51.94"W | | 246.07 | 246.04 | 246.01 |
| C126 | 1.67 | 95.46 | 1.00 | 246.01 | 246.00 | 246.01 |
| C127 | 14.10 | 3.92 | 206.25 | 246.01 | 246.16 | 246.30 |
| C128 | 5.44 | 103.80 | 3.00 | 246.30 | 246.34 | 246.37 |

| SPLITTER ISLAND 11B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C129 | 1.52 | 87.05 | 1.00 | 245.79 | 245.81 | 245.83 |
| L43 | 1.88 | S76° 58' 51.94"W | | 245.83 | 245.85 | 245.87 |
| C130 | 0.38 | 21.85 | 1.00 | 245.87 | 245.87 | 245.87 |
| L44 | 2.04 | N81° 09' 56.70"W | | 245.87 | 245.85 | 245.83 |
| C131 | 1.47 | 84.46 | 1.00 | 245.83 | 245.81 | 245.79 |
| C132 | 15.08 | 8.55 | 101.00 | 245.79 | 245.65 | 245.51 |
| C133 | 47.53 | 12.16 | 224.00 | 245.51 | 245.11 | 244.83 |
| C134 | 4.57 | 174.71 | 1.50 | 244.83 | 244.84 | 244.83 |
| L45 | 21.24 | S1° 36' 46.14"W | | 244.83 | 244.94 | 245.07 |
| C135 | 40.99 | 11.68 | 201.00 | 245.07 | 245.41 | 245.79 |

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RAB-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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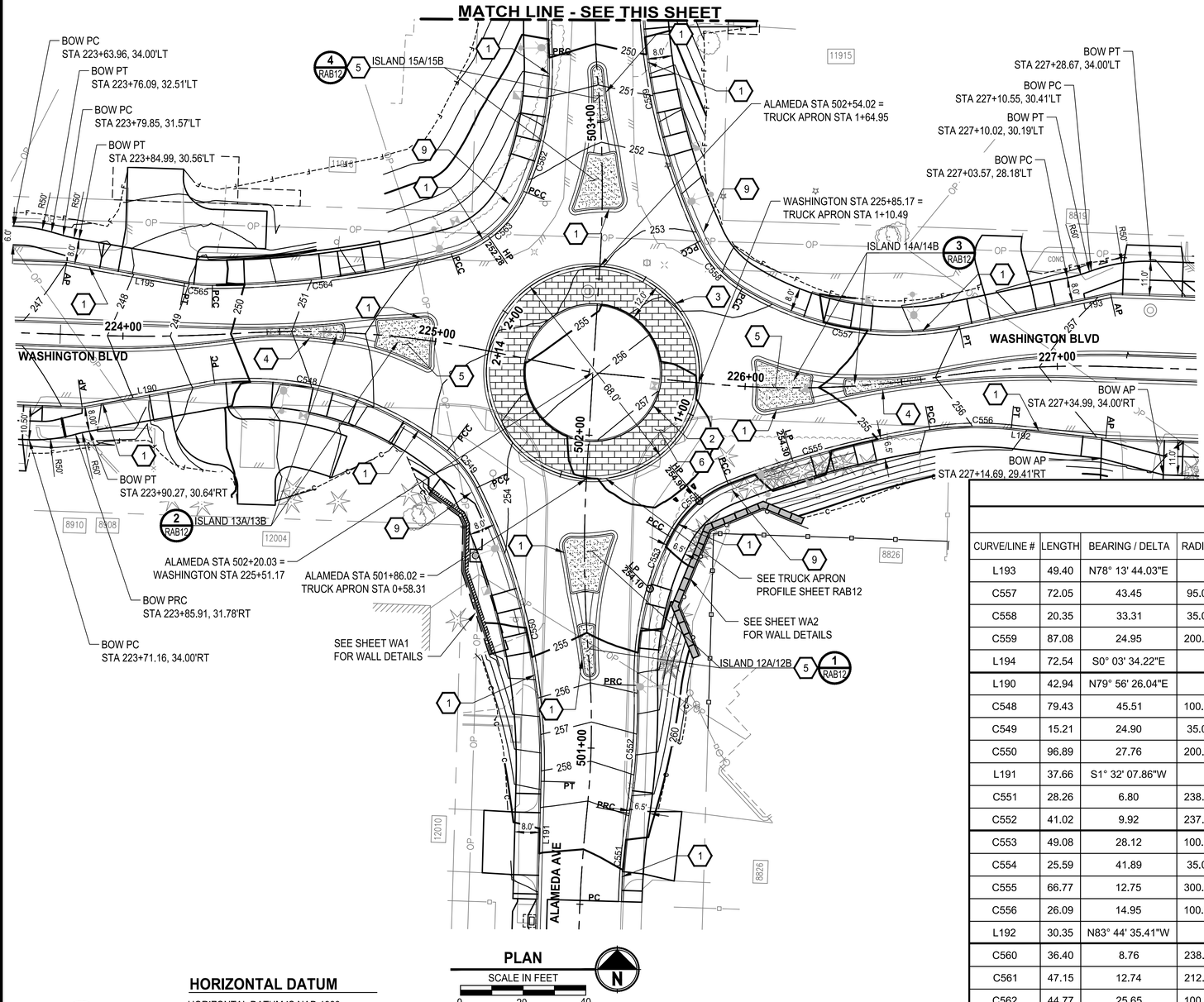
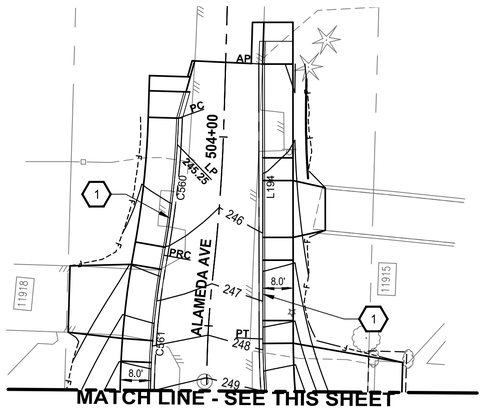
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & VERNON ROUNDABOUT GRADING DETAILS

DRAWING NO. 61 OF 169
RAB9


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 3:58:41 PM LAYOUT: RAB9




## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## CONSTRUCTION NOTES

1 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04

2 INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19

3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)

4 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04

5 INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20

6 INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19

7 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19

8 INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01

9 INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

## ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| L193 | 49.40 | N78° 13' 44.03"E | | 223+87.74 | 23.00' RT | 247.50 | | 247.72 | | 248.24 | | 248.81 | | 249.38 | 224+28.56 | 15.58' RT |
| C557 | 72.05 | 43.45 | 95.00 | 224+28.56 | 15.58' RT | 249.38 | 249.93 | 250.44 | 250.94 | 251.41 | 251.89 | 252.37 | 252.84 | 253.30 | 225+09.93 | 33.81' RT |
| C558 | 20.35 | 33.31 | 35.00 | 225+09.93 | 33.81' RT | 253.30 | | | | 253.56 | | | | 253.70 | 501+81.66 | 34.77' LT |
| C559 | 87.08 | 24.95 | 200.00 | 501+81.66 | 34.77' LT | 253.70 | 253.86 | 254.02 | 254.18 | 254.54 | 255.22 | 256.20 | 257.24 | 258.28 | 500+88.28 | 15.40' LT |
| L194 | 72.54 | S0° 03' 34.22"E | | 500+88.28 | 15.40' LT | 258.28 | | 259.08 | | 256.00 | | 256.25 | | 261.00 | 500+50.97 | 13.42' LT |
| L190 | 42.94 | N79° 56' 26.04"E | | 500+51.50 | 13.26' RT | 260.35 | | 260.12 | | 259.82 | | 259.42 | | 258.94 | 500+80.45 | 13.54' RT |
| C548 | 79.43 | 45.51 | 100.00 | 500+80.45 | 13.54' RT | 258.94 | | 258.29 | | 257.38 | | 256.59 | | 255.81 | 501+19.34 | 14.90' RT |
| C549 | 15.21 | 24.90 | 35.00 | 501+19.34 | 14.90' RT | 255.81 | 255.33 | 254.86 | 254.46 | 254.30 | 254.10 | 254.17 | 254.38 | 254.64 | 501+67.80 | 27.42' RT |
| C550 | 96.89 | 27.76 | 200.00 | 501+67.80 | 27.42' RT | 254.64 | | 254.82 | | 254.90 | | 254.88 | | 254.76 | 225+96.66 | 31.43' RT |
| L191 | 37.66 | S1° 32' 07.86"W | | 225+96.66 | 31.43' RT | 254.76 | 254.52 | 254.33 | 254.31 | 254.47 | 254.74 | 255.01 | 255.28 | 255.55 | 226+56.69 | 16.31' RT |
| C551 | 28.26 | 6.80 | 238.00 | 226+56.69 | 16.31' RT | 255.55 | | 255.77 | | 255.98 | | 256.19 | | 256.37 | 226.83.80 | 18.92' RT |
| C552 | 41.02 | 9.92 | 237.00 | 226.83.80 | 18.92' RT | 256.37 | | 256.57 | | 256.74 | | 256.90 | | 257.08 | 227+16.16 | 23.00' RT |
| C553 | 49.08 | 28.12 | 100.00 | 227+16.38 | 23.00' LT | 257.23 | | 256.87 | | 256.64 | | 256.34 | | 256.00 | 226+70.47 | 15.20' LT |
| C554 | 25.59 | 41.89 | 35.00 | 226+70.47 | 15.20' LT | 256.00 | 255.71 | 255.40 | 255.08 | 254.77 | 254.46 | 254.19 | 253.95 | 253.74 | 225+97.05 | 31.35' LT |
| C555 | 66.77 | 12.75 | 300.00 | 225+97.05 | 31.35' LT | 253.74 | | | | 253.45 | | | | 253.11 | 502+63.39 | 31.66' RT |
| C556 | 26.09 | 14.95 | 100.00 | 502+63.39 | 31.66' RT | 253.11 | 252.71 | 252.29 | 251.86 | 251.33 | 250.62 | 249.73 | 248.73 | 247.75 | 503+47.27 | 14.52' RT |
| L192 | 30.35 | N83° 44' 35.41"W | | 503+47.27 | 14.52' RT | 247.75 | 247.06 | 246.49 | 246.03 | 245.69 | 245.47 | 245.36 | 245.38 | 245.42 | 504+19.54 | 9.76' RT |
| C560 | 36.40 | 8.76 | 238.00 | 504+04.61 | 12.00' LT | 245.29 | | 245.25 | | 245.38 | | 245.68 | | 246.13 | 503+67.32 | 13.45' LT |
| C561 | 47.15 | 12.74 | 212.00 | 503+67.32 | 13.45' LT | 246.13 | | 246.99 | | 247.95 | | 249.10 | | 249.92 | 503+22.37 | 14.99' LT |
| C562 | 44.77 | 25.65 | 100.00 | 503+22.37 | 14.99' LT | 249.92 | | 250.84 | | 251.48 | | 251.81 | | 252.09 | 502+77.91 | 25.13' LT |
| C563 | 31.54 | 51.63 | 35.00 | 502+77.91 | 25.13' LT | 252.09 | | 252.22 | | 252.28 | | 252.27 | | 252.18 | 225+00.76 | 28.51' LT |
| C564 | 77.12 | 14.73 | 300.00 | 225+00.76 | 28.51' LT | 252.18 | 252.02 | 251.83 | 251.57 | 251.26 | 250.89 | 250.46 | 249.97 | 249.43 | 224+29.30 | 15.74' LT |
| C565 | 8.89 | 10.18 | 50.00 | 224+29.30 | 15.74' LT | 249.43 | | | | 249.17 | | | | 248.91 | 224+20.17 | 16.82' LT |
| L195 | 38.17 | N80° 02' 02.22"W | | 224+20.17 | 16.82' LT | 248.91 | | 248.37 | | 247.86 | | 247.41 | | 247.12 | 223+81.34 | 23.00' LT |

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

811 Know what's **below.** **Call** before you dig.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RAB-04
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & ALAMEDA ROUNDABOUT GRADING PLAN

DRAWING NO. 62 OF 169

RAB10


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toykokat DATE: Wednesday, January 12, 2022 4:16:38 PM
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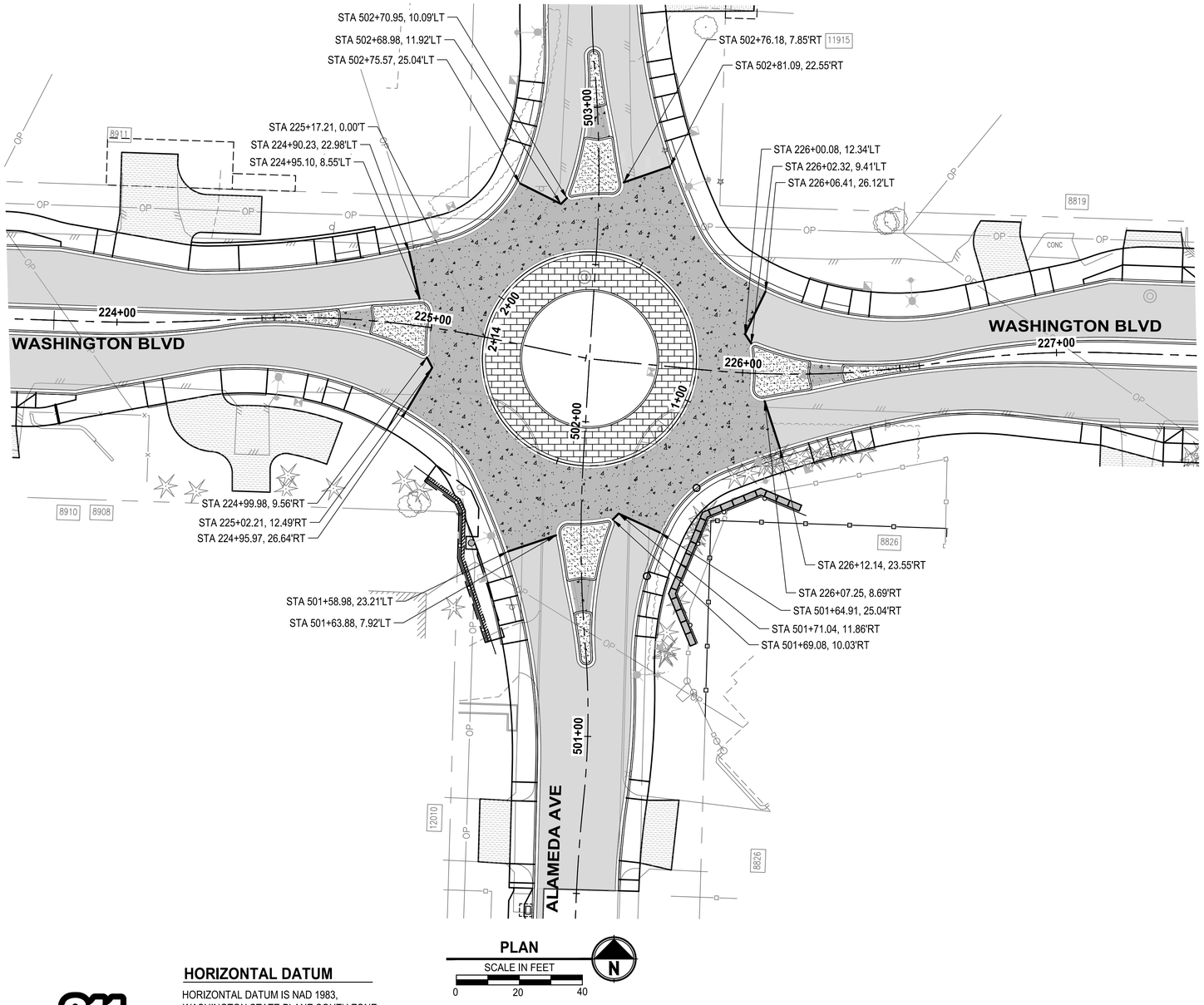


PLAN

SCALE IN FEET

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## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00

## LEGEND

CEMENT CONC. PAVEMENT

HMA CLA 1/2 IN PG 58H-22

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-RAB-04
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSER STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME

**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

LAKEWOOD, WASHINGTON

# WASHINGTON AND ALAMEDA ROUNDABOUT PAVING PLAN

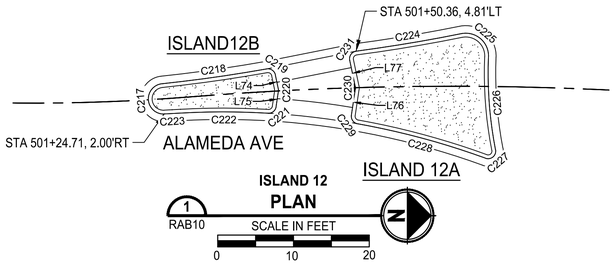
DRAWING NO. 63 OF 169

**RAB11**


LAYOUT: RAB11 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 4:16:58 PM

## GENERAL NOTE:

1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB




**ISLAND 12**
**PLAN**
1 RAB10
SCALE IN FEET
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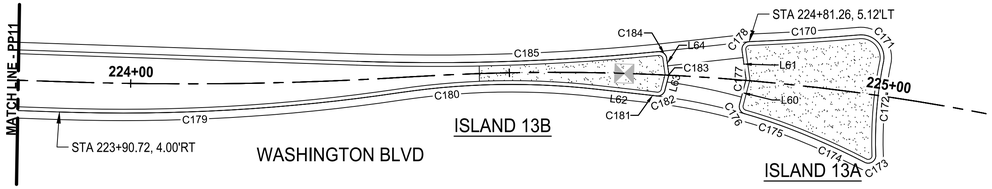
| SPLITTER ISLAND 12B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C217 | 6.17 | 176.71 | 2.00 | 255.67 | 255.85 | 255.68 |
| C218 | 13.96 | 3.98 | 201.00 | 255.68 | 255.23 | 254.87 |
| C219 | 1.54 | 88.14 | 1.00 | 254.87 | 254.84 | 254.84 |
| L74 | 1.88 | N78° 05' 52.36"E | | 254.84 | 254.85 | 254.86 |
| C220 | 0.36 | 20.40 | 1.00 | 254.86 | 254.87 | 254.87 |
| L75 | 2.04 | S81° 30' 18.93"E | | 254.87 | 254.85 | 254.82 |
| C221 | 1.48 | 84.86 | 1.00 | 254.82 | 254.82 | 254.85 |
| C222 | 11.70 | 6.64 | 101.00 | 254.85 | 255.15 | 255.53 |
| C223 | 2.02 | 0.52 | 224.00 | 255.53 | 255.60 | 255.67 |

| SPLITTER ISLAND 12A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C224 | 14.07 | 3.94 | 204.58 | 254.47 | 254.38 | 254.37 |
| C225 | 5.43 | 103.80 | 3.00 | 254.37 | 254.39 | 254.45 |
| C226 | 12.30 | 13.42 | 52.50 | 254.45 | 254.58 | 254.68 |
| C227 | 2.11 | 121.08 | 1.00 | 254.68 | 254.66 | 254.63 |
| C228 | 17.50 | 9.93 | 101.00 | 254.63 | 254.37 | 254.44 |
| C229 | 1.54 | 88.39 | 1.00 | 254.44 | 254.46 | 254.48 |
| L76 | 3.47 | N81° 30' 18.93"W | | 254.48 | 254.52 | 254.55 |
| C230 | 0.36 | 20.40 | 1.00 | 254.55 | 254.56 | 254.56 |
| L77 | 3.54 | S78° 05' 52.36"W | | 254.56 | 254.54 | 254.51 |
| C231 | 1.65 | 94.41 | 1.00 | 254.51 | 254.49 | 254.47 |

| SPLITTER ISLAND 13B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C179 | 45.00 | 10.36 | 249.00 | 247.74 | 248.82 | 250.01 |
| C180 | 26.10 | 14.80 | 101.00 | 250.01 | 250.69 | 251.32 |
| L62 | 7.28 | S83° 37' 05.79"E | | 251.32 | 251.48 | 251.63 |
| C181 | 0.70 | 0.53 | 75.00 | 251.63 | 251.64 | 251.66 |
| C182 | 1.44 | 82.26 | 1.00 | 251.66 | 251.69 | 251.72 |
| L63 | 1.91 | N14° 39' 20.82"E | | 251.72 | 251.74 | 251.76 |
| C183 | 0.39 | 22.54 | 1.00 | 251.76 | 251.76 | 251.76 |
| L64 | 2.02 | N7° 52' 54.39"W | | 251.76 | 251.73 | 251.71 |
| C184 | 1.53 | 87.75 | 1.00 | 251.71 | 250.68 | 249.65 |
| C185 | 39.83 | 7.58 | 301.00 | 251.65 | 250.77 | 249.73 |

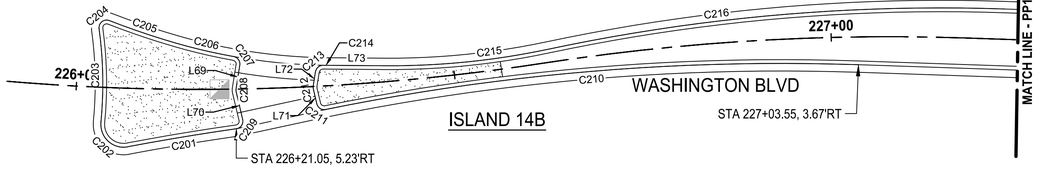
| SPLITTER ISLAND 13A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C170 | 14.55 | 2.69 | 309.79 | 252.04 | 252.23 | 252.36 |
| C171 | 5.57 | 106.37 | 3.00 | 252.36 | 252.42 | 252.49 |
| C172 | 12.37 | 13.51 | 52.46 | 252.49 | 252.65 | 252.75 |
| C173 | 2.08 | 119.20 | 1.00 | 252.75 | 252.73 | 252.69 |
| C174 | 9.20 | 5.17 | 102.00 | 252.69 | 252.52 | 252.35 |
| C175 | 7.90 | 6.04 | 75.00 | 252.35 | 252.22 | 252.10 |
| C176 | 1.55 | 88.67 | 1.00 | 252.10 | 252.07 | 252.08 |
| L60 | 3.23 | N14° 39' 20.82"E | | 252.08 | 252.10 | 252.13 |
| C177 | 0.39 | 22.54 | 1.00 | 252.13 | 252.13 | 252.12 |
| L61 | 3.68 | N7° 52' 54.39"W | | 252.12 | 252.08 | 252.03 |
| C178 | 1.67 | 95.70 | 1.00 | 252.03 | 252.02 | 252.04 |



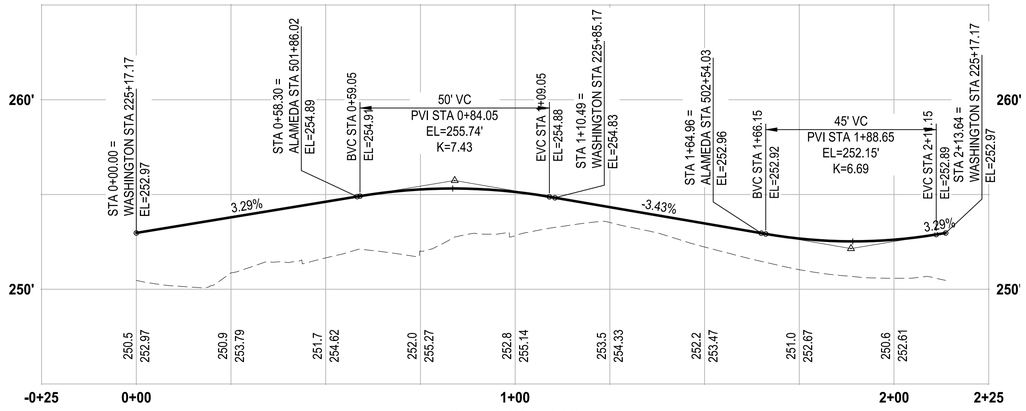

**ISLAND 13**
**PLAN**
2 RAB10
SCALE IN FEET
0 10 20

| SPLITTER ISLAND 14A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C201 | 14.53 | 2.69 | 309.83 | 254.82 | 254.73 | 254.70 |
| C202 | 5.57 | 106.36 | 3.00 | 254.70 | 254.74 | 254.80 |
| C203 | 12.37 | 13.51 | 52.46 | 254.80 | 254.72 | 254.46 |
| C204 | 2.08 | 119.20 | 1.00 | 254.46 | 254.43 | 254.44 |
| C205 | 9.30 | 5.23 | 102.00 | 254.44 | 254.58 | 254.71 |
| C206 | 7.81 | 5.97 | 75.00 | 254.71 | 254.77 | 254.85 |
| C207 | 1.55 | 88.88 | 1.00 | 254.85 | 254.87 | 254.89 |
| L69 | 3.16 | S8° 59' 20.88"W | | 254.89 | 254.93 | 254.97 |
| C208 | 0.39 | 22.24 | 1.00 | 254.97 | 254.96 | 254.96 |
| L70 | 3.75 | S13° 15' 01.26"E | | 254.96 | 254.91 | 254.86 |
| C209 | 1.66 | 95.18 | 1.00 | 254.86 | 254.84 | 254.82 |

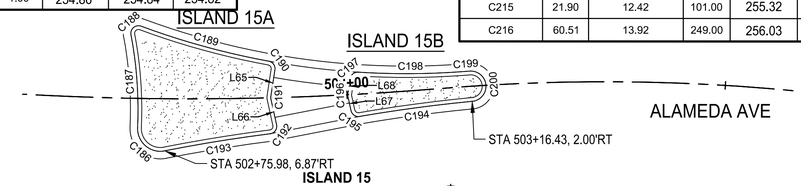
| SPLITTER ISLAND 14B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C210 | 70.73 | 13.46 | 301.00 | 257.16 | 256.19 | 255.09 |
| C211 | 1.54 | 88.28 | 1.00 | 255.09 | 255.08 | 255.09 |
| L71 | 2.02 | S13° 15' 01.26"E | | 255.09 | 255.11 | 255.13 |
| C212 | 0.39 | 22.24 | 1.00 | 255.13 | 255.14 | 255.14 |
| L72 | 1.91 | S8° 59' 20.88"W | | 255.14 | 255.12 | 255.10 |
| C213 | 1.43 | 82.05 | 1.00 | 255.10 | 255.10 | 255.11 |
| C214 | 0.79 | 0.60 | 75.00 | 255.11 | 255.12 | 255.13 |
| L73 | 7.28 | N89° 34' 01.95"W | | 255.13 | 255.22 | 255.32 |
| C215 | 21.90 | 12.42 | 101.00 | 255.32 | 255.67 | 256.03 |
| C216 | 60.51 | 13.92 | 249.00 | 256.03 | 256.90 | 258.23 |




**ISLAND 14**
**PLAN**
3 RAB10
SCALE IN FEET
0 10 20




**TRUCK APRON PROFILE**
HORIZ: 1=20
VERT: 1=4




**ISLAND 15**
**PLAN**
4 RAB10
SCALE IN FEET
0 10 20

| SPLITTER ISLAND 15A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C186 | 5.43 | 103.80 | 3.00 | 252.55 | 252.64 | 252.68 |
| C187 | 12.30 | 13.42 | 52.50 | 252.68 | 252.54 | 252.43 |
| C188 | 2.11 | 121.08 | 1.00 | 252.43 | 252.41 | 252.39 |
| C189 | 17.50 | 9.93 | 101.00 | 252.39 | 252.29 | 252.07 |
| C190 | 1.54 | 88.27 | 1.00 | 252.07 | 252.06 | 252.06 |
| L65 | 3.54 | N81° 21' 57.60"W | | 252.06 | 252.10 | 252.15 |
| C191 | 0.37 | 20.97 | 1.00 | 252.15 | 252.15 | 252.15 |
| L66 | 3.45 | S77° 39' 40.40"W | | 252.15 | 252.12 | 252.09 |
| C192 | 1.66 | 95.09 | 1.00 | 252.09 | 252.09 | 252.11 |
| C193 | 14.09 | 3.91 | 206.27 | 252.11 | 252.34 | 252.55 |

| SPLITTER ISLAND 15B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C194 | 14.98 | 4.27 | 201.00 | 250.65 | 251.16 | 251.59 |
| C195 | 1.53 | 87.43 | 1.00 | 251.59 | 251.63 | 251.66 |
| L67 | 1.89 | S77° 39' 40.40"W | | 251.66 | 251.68 | 251.70 |
| C196 | 0.37 | 20.97 | 1.00 | 251.70 | 251.70 | 251.70 |
| L68 | 2.04 | N81° 21' 57.60"W | | 251.70 | 251.68 | 251.66 |
| C197 | 1.48 | 84.99 | 1.00 | 251.66 | 251.63 | 251.59 |
| C198 | 13.81 | 7.84 | 101.00 | 251.59 | 251.20 | 250.73 |
| C199 | 0.92 | 0.27 | 199.00 | 250.73 | 250.70 | 250.66 |
| C200 | 6.23 | 178.46 | 2.00 | 250.66 | 250.54 | 250.65 |

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-04
JOB No. 214-3047-013
DATE JANUARY 2022

KEVIN L. HOUSE — STATE OF WASHINGTON — 41824 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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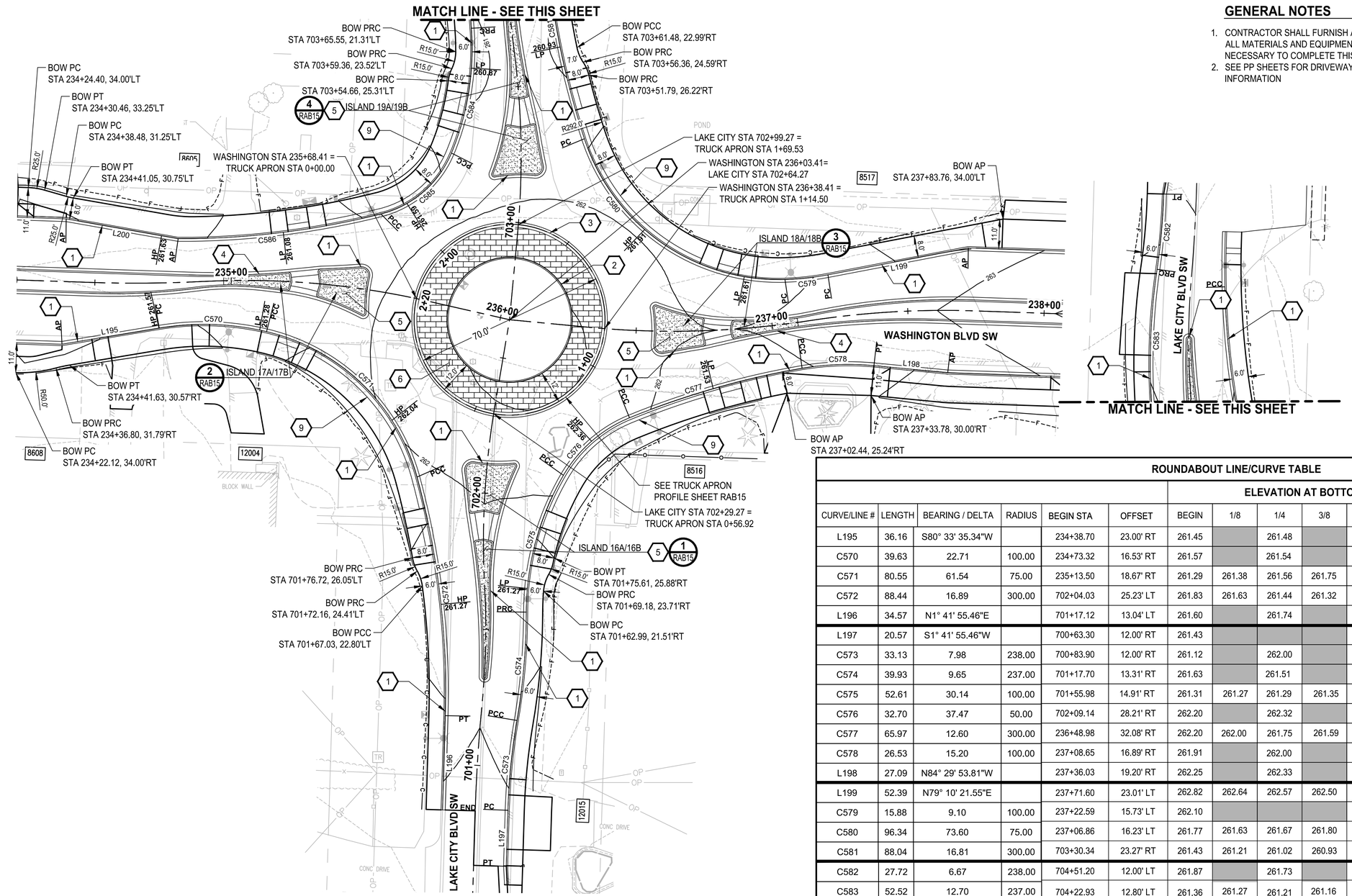
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & ALAMEDA ROUNDABOUT GRADING DETAILS

DRAWING NO. 64 OF 169
RAB12


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svs\CADD\DWG
PLOTTED BY: toylokot DATE: Wednesday, January 12, 2022 4:20:03 PM
LAYOUT: RAB12




## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## CONSTRUCTION NOTES

1 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04

2 INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19

3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)

4 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04

5 INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20

6 INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19

7 INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19

8 INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01

9 INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

## ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| L195 | 36.16 | S80° 33' 35.34"W | | 234+38.70 | 23.00' RT | 261.45 | | 261.48 | | 261.52 | | 261.55 | | 261.57 | 234+73.32 | 16.53' RT |
| C570 | 39.63 | 22.71 | 100.00 | 234+73.32 | 16.53' RT | 261.57 | | 261.54 | | 261.44 | | 261.32 | | 261.29 | 235+13.50 | 18.67' RT |
| C571 | 80.55 | 61.54 | 75.00 | 235+13.50 | 18.67' RT | 261.29 | 261.38 | 261.56 | 261.75 | 261.92 | 262.02 | 262.04 | 261.97 | 261.83 | 702+04.03 | 25.23' LT |
| C572 | 88.44 | 16.89 | 300.00 | 702+04.03 | 25.23' LT | 261.83 | 261.63 | 261.44 | 261.32 | 261.27 | 261.29 | 261.35 | 261.45 | 261.60 | 701+17.12 | 13.04' LT |
| L196 | 34.57 | N1° 41' 55.46"E | | 701+17.12 | 13.04' LT | 261.60 | | 261.74 | | 261.89 | | 262.03 | | 262.18 | 700+83.27 | 12.00' LT |
| L197 | 20.57 | S1° 41' 55.46"W | | 700+63.30 | 12.00' RT | 261.43 | | | | 262.28 | | | | 262.12 | 700+83.90 | 12.00' RT |
| C573 | 33.13 | 7.98 | 238.00 | 700+83.90 | 12.00' RT | 261.12 | | 262.00 | | 261.87 | | 261.75 | | 261.63 | 701+17.70 | 13.31' RT |
| C574 | 39.93 | 9.65 | 237.00 | 701+17.70 | 13.31' RT | 261.63 | | 261.51 | | 261.42 | | 261.36 | | 261.31 | 701+55.98 | 14.91' RT |
| C575 | 52.61 | 30.14 | 100.00 | 701+55.98 | 14.91' RT | 261.31 | 261.27 | 261.29 | 261.35 | 261.48 | 261.66 | 261.86 | 262.05 | 262.20 | 702+09.14 | 28.21' RT |
| C576 | 32.70 | 37.47 | 50.00 | 702+09.14 | 28.21' RT | 262.20 | | 262.32 | | 262.36 | | 262.32 | | 262.20 | 236+48.98 | 32.08' RT |
| C577 | 65.97 | 12.60 | 300.00 | 236+48.98 | 32.08' RT | 262.20 | 262.00 | 261.75 | 261.59 | 261.53 | 261.60 | 261.70 | 261.81 | 261.91 | 237+08.65 | 16.89' RT |
| C578 | 26.53 | 15.20 | 100.00 | 237+08.65 | 16.89' RT | 261.91 | | 262.00 | | 262.08 | | 262.17 | | 262.25 | 237+36.03 | 19.20' RT |
| L198 | 27.09 | N84° 29' 53.81"W | | 237+36.03 | 19.20' RT | 262.25 | | 262.33 | | 262.42 | | 262.51 | | 262.59 | 237+64.74 | 22.87' RT |
| L199 | 52.39 | N79° 10' 21.55"E | | 237+71.60 | 23.01' LT | 262.82 | 262.64 | 262.57 | 262.50 | 262.43 | 262.36 | 262.29 | 262.20 | 262.10 | 237+22.59 | 15.73' LT |
| C579 | 15.88 | 9.10 | 100.00 | 237+22.59 | 15.73' LT | 262.10 | | | | 261.95 | | | | 261.77 | 237+06.86 | 16.23' LT |
| C580 | 96.34 | 73.60 | 75.00 | 237+06.86 | 16.23' LT | 261.77 | 261.63 | 261.67 | 261.80 | 261.89 | 261.91 | 261.83 | 261.66 | 261.43 | 703+30.34 | 23.27' RT |
| C581 | 88.04 | 16.81 | 300.00 | 703+30.34 | 23.27' RT | 261.43 | 261.21 | 261.02 | 260.93 | 260.97 | 261.04 | 261.11 | 261.18 | 261.30 | 704+18.52 | 12.49' RT |
| C582 | 27.72 | 6.67 | 238.00 | 704+51.20 | 12.00' LT | 261.87 | | 261.73 | | 261.59 | | 261.47 | | 261.36 | 704+22.93 | 12.80' LT |
| C583 | 52.52 | 12.70 | 237.00 | 704+22.93 | 12.80' LT | 261.36 | 261.27 | 261.21 | 261.16 | 261.11 | 261.06 | 261.02 | 260.97 | 260.93 | 703+72.93 | 14.68' LT |
| C584 | 46.76 | 26.79 | 100.00 | 703+72.93 | 14.68' LT | 260.93 | | 260.85 | | 260.89 | | 261.11 | | 261.37 | 703+25.72 | 25.56' LT |
| C585 | 35.45 | 53.44 | 38.00 | 703+25.72 | 25.56' LT | 261.37 | | 261.52 | | 261.60 | | 261.62 | | 261.58 | 235+50.79 | 28.18' LT |
| C586 | 75.08 | 14.34 | 300.00 | 235+50.79 | 28.18' LT | 261.58 | 261.47 | 261.30 | 261.14 | 261.08 | 261.17 | 261.35 | 261.53 | 261.62 | 234+81.06 | 16.07' LT |
| L200 | 41.69 | S79° 58' 34.56"E | | 234+81.06 | 16.07' LT | 261.62 | | 261.64 | | 261.59 | | 261.55 | | 261.50 | 234+38.70 | 23.00' LT |

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

PLAN
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Know what's below. Call before you dig.

| | REVISIONS | DATE | BY |
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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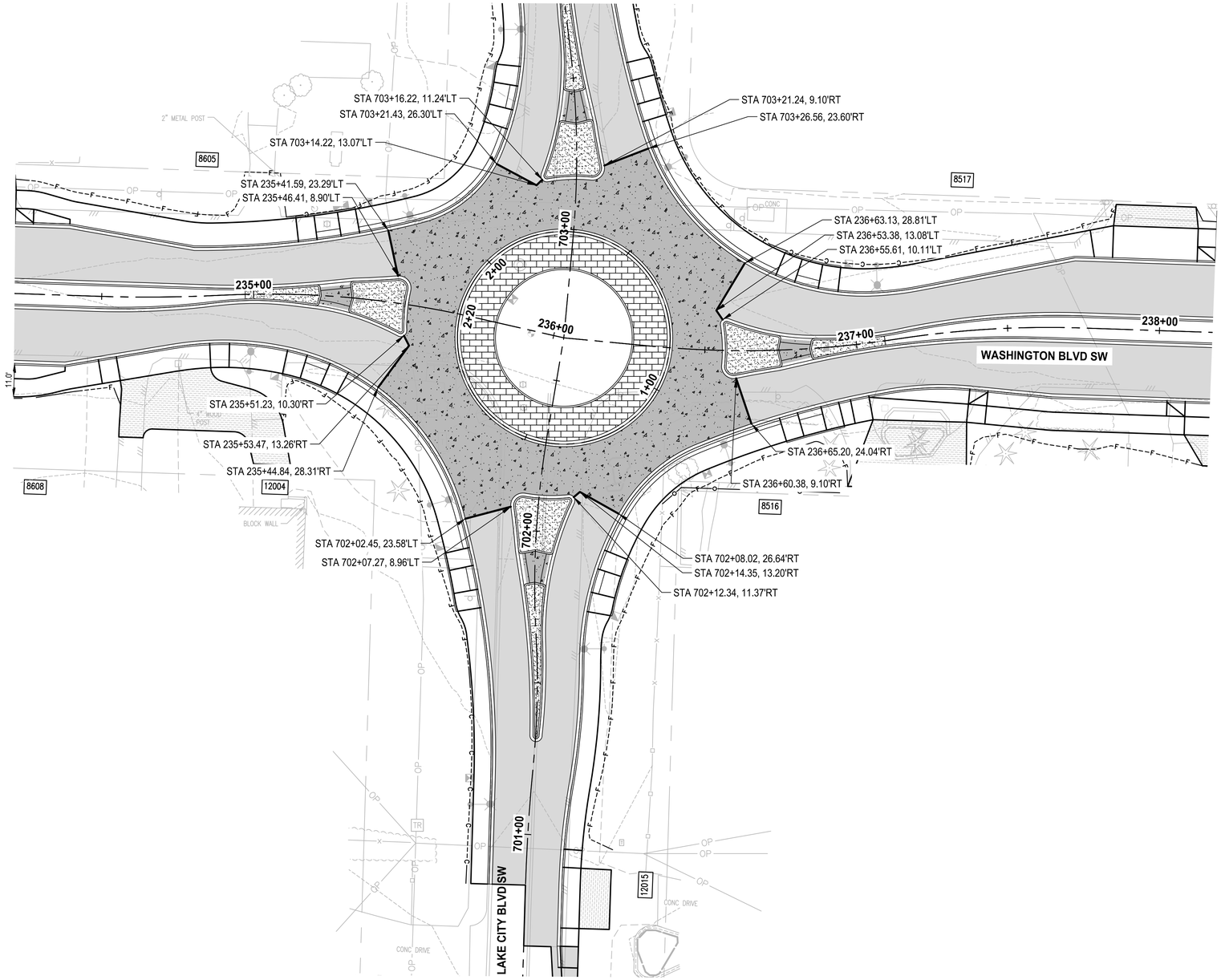
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & LAKE CITY ROUNDABOUT GRADING PLAN

DRAWING NO.
65 OF 169
RAB13


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Wednesday, January 12, 2022 4:37:14 PM LAYOUT: RAB13




## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00
2. SEE SPECIFICATIONS FOR ADDITIONAL PAVEMENT INFORMATION

## LEGEND

10" CEMENT CONC. PAVEMENT
3" CSTC

6" HMA CLA 1/2 IN PG 58H-22
4" CSTC

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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PLAN
SCALE IN FEET
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| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
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FILE NAME PS3047013-RAB-05
JOB No. 214-3047-013
DATE JANUARY 2022

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & LAKE CITY ROUNDABOUT PAVING PLAN

DRAWING NO. 66 OF 169
RAB14


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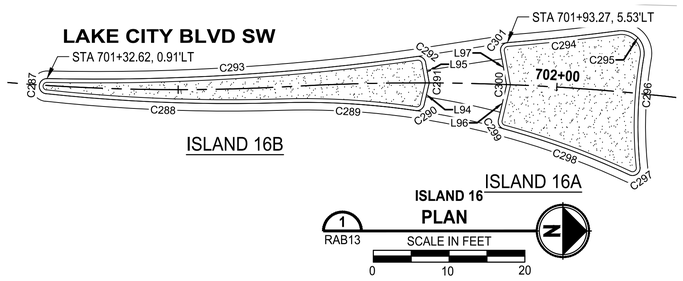



| SPLITTER ISLAND 16B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C287 | 3.06 | 175.06 | 1.00 | 261.74 | 261.77 | 261.74 |
| C288 | 31.05 | 7.94 | 224.00 | 261.74 | 261.58 | 261.56 |
| C289 | 17.83 | 10.12 | 101.00 | 261.56 | 261.60 | 261.70 |
| C290 | 1.49 | 85.24 | 1.00 | 261.70 | 261.71 | 261.73 |
| L94 | 2.76 | S76° 52' 59.91"E | | 261.73 | 261.75 | 261.78 |
| C291 | 0.41 | 23.22 | 1.00 | 261.78 | 261.78 | 261.78 |
| L95 | 2.51 | N79° 54' 05.32"E | | 261.78 | 261.75 | 261.72 |
| C292 | 1.54 | 87.98 | 1.00 | 261.72 | 261.70 | 261.69 |
| C293 | 48.99 | 9.32 | 301.00 | 261.69 | 261.55 | 261.74 |

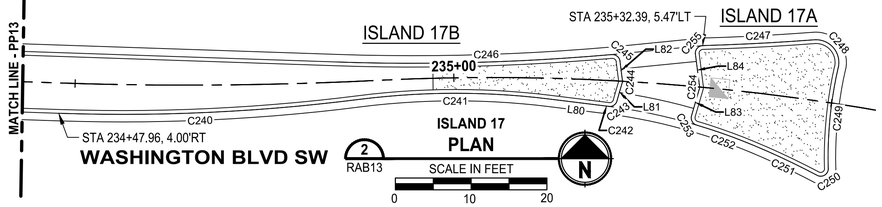
| SPLITTER ISLAND 16A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C294 | 14.74 | 2.73 | 309.42 | 261.85 | 261.99 | 262.13 |
| C295 | 5.61 | 107.19 | 3.00 | 262.13 | 262.18 | 262.24 |
| C296 | 14.55 | 15.61 | 53.43 | 262.24 | 262.29 | 262.34 |
| C297 | 2.11 | 120.96 | 1.00 | 262.34 | 262.33 | 262.29 |
| C298 | 17.66 | 10.02 | 101.00 | 262.29 | 262.08 | 261.89 |
| C299 | 1.54 | 88.01 | 1.00 | 261.89 | 261.88 | 261.88 |
| L96 | 4.52 | N76° 52' 59.91"W | | 261.88 | 261.91 | 261.94 |
| C300 | 0.41 | 23.22 | 1.00 | 261.94 | 261.95 | 261.94 |
| L97 | 4.27 | S79° 54' 05.32"W | | 261.94 | 261.90 | 261.86 |
| C301 | 1.67 | 95.41 | 1.00 | 261.86 | 261.85 | 261.85 |

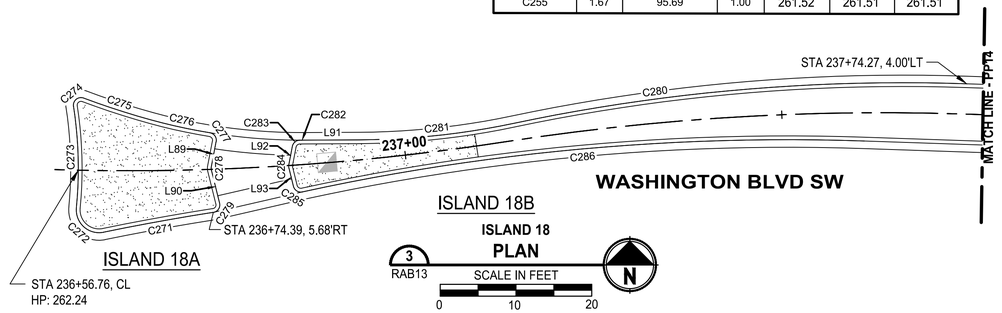
**GENERAL NOTE:**

1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB

| SPLITTER ISLAND 17B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C240 | 39.80 | 9.16 | 249.00 | 261.86 | 261.80 | 261.68 |
| C241 | 25.15 | 14.27 | 101.00 | 261.68 | 261.58 | 261.51 |
| L80 | 7.28 | N82° 57' 22.91"W | | 261.51 | 261.50 | 261.51 |
| C242 | 0.56 | 0.43 | 75.00 | 261.51 | 261.51 | 261.51 |
| C243 | 1.42 | 81.27 | 1.00 | 261.51 | 261.52 | 261.53 |
| L81 | 2.45 | S16° 11' 51.31"W | | 261.53 | 261.54 | 261.55 |
| C244 | 0.41 | 23.51 | 1.00 | 261.55 | 261.55 | 261.55 |
| L82 | 2.51 | S7° 18' 36.78"E | | 261.55 | 261.52 | 261.49 |
| C245 | 1.53 | 87.69 | 1.00 | 261.49 | 261.47 | 261.46 |
| C246 | 36.44 | 6.94 | 301.00 | 261.46 | 261.55 | 261.71 |

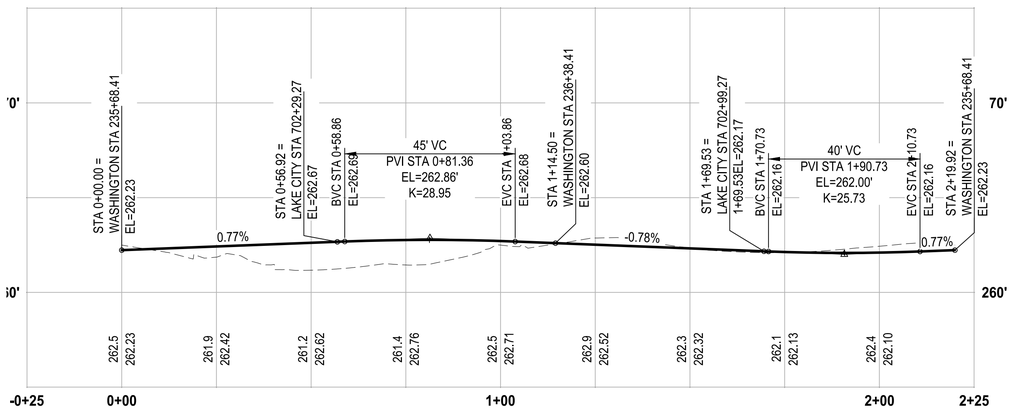
| SPLITTER ISLAND 17A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C247 | 14.75 | 2.73 | 309.39 | 261.51 | 261.61 | 261.72 |
| C248 | 5.61 | 107.19 | 3.00 | 261.72 | 261.78 | 261.82 |
| C249 | 13.42 | 14.38 | 53.46 | 261.82 | 261.86 | 261.91 |
| C250 | 2.08 | 119.41 | 1.00 | 261.91 | 261.90 | 261.87 |
| C251 | 9.22 | 5.18 | 102.00 | 261.87 | 261.77 | 261.72 |
| C252 | 8.03 | 6.14 | 75.00 | 261.72 | 261.64 | 261.59 |
| C253 | 1.56 | 89.65 | 1.00 | 261.59 | 261.59 | 261.59 |
| L83 | 3.66 | N16° 11' 51.31"E | | 261.59 | 261.60 | 261.62 |
| C254 | 0.41 | 23.51 | 1.00 | 261.62 | 261.63 | 261.62 |
| L84 | 4.24 | N7° 18' 36.78"W | | 261.62 | 261.57 | 261.52 |
| C255 | 1.67 | 95.69 | 1.00 | 261.52 | 261.51 | 261.51 |



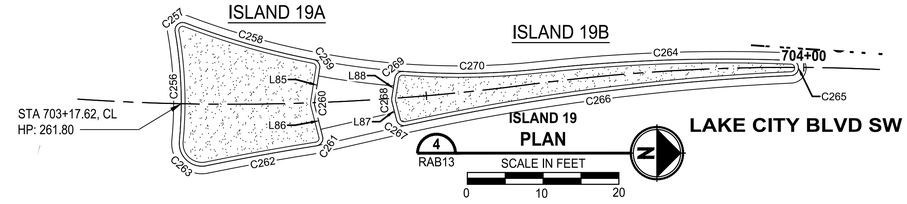

| SPLITTER ISLAND 18A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C271 | 14.72 | 2.73 | 309.45 | 261.90 | 261.95 | 262.05 |
| C272 | 5.61 | 107.18 | 3.00 | 262.05 | 262.11 | 262.17 |
| C273 | 13.42 | 14.39 | 53.43 | 262.17 | 262.22 | 262.18 |
| C274 | 2.08 | 119.41 | 1.00 | 262.18 | 262.17 | 262.16 |
| C275 | 9.36 | 5.26 | 102.00 | 262.16 | 262.08 | 262.03 |
| C276 | 7.95 | 6.07 | 75.00 | 262.03 | 261.99 | 261.95 |
| C277 | 1.60 | 91.53 | 1.00 | 261.95 | 261.96 | 261.97 |
| L89 | 3.39 | S10° 47' 43.99"W | | 261.97 | 261.99 | 262.02 |
| C278 | 0.43 | 24.73 | 1.00 | 262.02 | 262.03 | 262.02 |
| L90 | 4.47 | S13° 56' 02.26"E | | 262.02 | 261.97 | 261.92 |
| C279 | 1.66 | 95.05 | 1.00 | 261.92 | 261.90 | 261.90 |

| SPLITTER ISLAND 18B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C280 | 60.19 | 13.85 | 249.00 | 263.14 | 262.70 | 262.26 |
| C281 | 20.47 | 11.61 | 101.00 | 262.26 | 262.10 | 261.98 |
| L91 | 7.28 | N89° 41' 38.60"E | | 261.98 | 261.95 | 261.94 |
| C282 | 0.61 | 0.46 | 75.00 | 261.94 | 261.94 | 261.94 |
| C283 | 1.39 | 79.36 | 1.00 | 261.94 | 261.94 | 261.96 |
| L92 | 2.48 | N10° 47' 43.99"E | | 261.96 | 261.98 | 262.00 |
| C284 | 0.43 | 24.73 | 1.00 | 262.00 | 262.00 | 261.99 |
| L93 | 2.49 | N13° 56' 02.27"W | | 261.99 | 261.97 | 261.94 |
| C285 | 1.54 | 88.35 | 1.00 | 261.94 | 261.93 | 261.93 |
| C286 | 74.67 | 14.21 | 301.00 | 261.93 | 262.40 | 262.94 |




**TRUCK APRON PROFILE**

HORIZ: 1=20
VERT: 1=4




| SPLITTER ISLAND 19A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C256 | 14.55 | 15.61 | 53.43 | 261.77 | 261.78 | 261.74 |
| C257 | 2.11 | 120.96 | 1.00 | 261.74 | 261.73 | 261.70 |
| C258 | 17.65 | 10.02 | 101.00 | 261.70 | 261.53 | 261.37 |
| C259 | 1.54 | 87.99 | 1.00 | 261.37 | 261.36 | 261.37 |
| L85 | 4.53 | S81° 05' 52.83"E | | 261.37 | 261.42 | 261.46 |
| C260 | 0.41 | 23.21 | 1.00 | 261.46 | 261.47 | 261.46 |
| L86 | 4.27 | N75° 41' 16.24"E | | 261.46 | 261.44 | 261.41 |
| C261 | 1.67 | 95.43 | 1.00 | 261.41 | 261.41 | 261.42 |
| C262 | 14.74 | 2.73 | 309.41 | 261.42 | 261.56 | 261.70 |
| C263 | 5.61 | 107.19 | 3.00 | 261.70 | 261.76 | 261.77 |

| SPLITTER ISLAND 19B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C264 | 33.04 | 8.45 | 224.00 | 261.17 | 261.26 | 261.38 |
| C265 | 3.06 | 175.27 | 1.00 | 261.38 | 261.41 | 261.38 |
| C266 | 51.40 | 9.78 | 301.00 | 261.38 | 261.20 | 261.26 |
| C267 | 1.54 | 87.95 | 1.00 | 261.26 | 261.27 | 261.28 |
| L87 | 2.51 | S75° 41' 16.24"W | | 261.28 | 261.30 | 261.32 |
| C268 | 0.41 | 23.21 | 1.00 | 261.32 | 261.33 | 261.32 |
| L88 | 2.76 | N81° 05' 52.83"W | | 261.32 | 261.29 | 261.26 |
| C269 | 1.49 | 85.27 | 1.00 | 261.26 | 261.24 | 261.23 |
| C270 | 18.28 | 10.37 | 101.00 | 261.23 | 261.18 | 261.17 |

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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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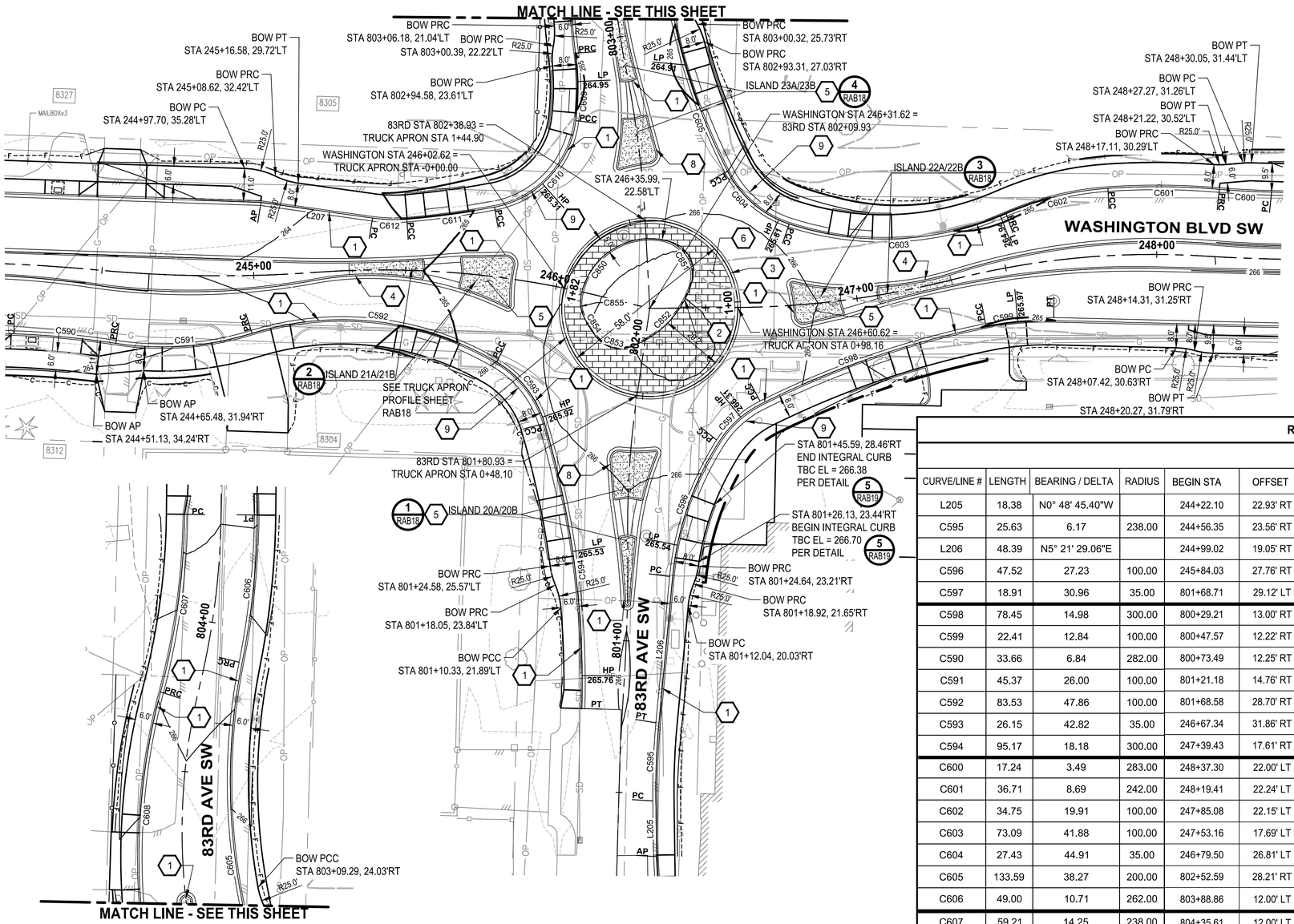
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & LAKE CITY ROUNDABOUT GRADING DETAILS

DRAWING NO. 67 OF 169

RAB15




## GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK
2. SEE PP SHEETS FOR DRIVEWAY INFORMATION

## CONSTRUCTION NOTES

1. INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER COL STD PLAN FR-04
2. INSTALL TRUCK BARRIER CURB PER COL STD PLAN FR-04 WITH WEEP HOLES PER SECTION A / RAB19
3. INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F-10.18-01 (CURB 1)
4. INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04
5. INSTALL SPLITTER ISLAND PER DETAILS ON SHEET RAB20
6. INSTALL CEMENT CONCRETE TRUCK APRON PER DETAIL 1 / RAB19 AND SECTION A / RAB19
7. INSTALL TRAFFIC BARRIER CURB PER COL STD PLAN FR-04 AND SECTION B / RAB19
8. INSTALL ROUNDABOUT CEMENT CONCRETE CURB & GUTTER, TYPE CURB 2 PER WSDOT STD PLAN F-10.18-01
9. INSTALL SIDEWALK BUFFER PER DETAIL 2 / RAB19 AND SECTION C / RAB19

### CENTER ISLAND

| Line #/Curve # | Length | Bearing/Delta | Radius |
|---|---|---|---|
| C850 | 36.85 | 91.79 | 23.00 |
| C851 | 21.04 | 100.48 | 12.00 |
| C852 | 28.19 | 48.94 | 33.00 |
| C853 | 12.47 | 71.46 | 10.00 |
| C854 | 8.79 | 15.26 | 33.00 |
| C855 | 5.60 | 32.07 | 10.00 |

### ROUNDABOUT LINE/CURVE TABLE

| | | | | | | ELEVATION AT BOTTOM FACE OF CURB/FLOWLINE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CURVE/LINE # | LENGTH | BEARING / DELTA | RADIUS | BEGIN STA | OFFSET | BEGIN | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | END | END STA | OFFSET |
| L205 | 18.38 | N0° 48' 45.40"W | | 244+22.10 | 22.93' RT | 263.23 | | 263.28 | | 263.32 | | 263.36 | | 263.40 | 244+56.35 | 23.56' RT |
| C595 | 25.63 | 6.17 | 238.00 | 244+56.35 | 23.56' RT | 263.40 | | 263.46 | | 263.53 | | 263.62 | | 263.74 | 244+99.02 | 19.05' RT |
| L206 | 48.39 | N5° 21' 29.06"E | | 244+99.02 | 19.05' RT | 263.74 | 263.88 | 264.05 | 264.21 | 264.38 | 264.56 | 264.81 | 265.14 | 265.52 | 245+84.03 | 27.76' RT |
| C596 | 47.52 | 27.23 | 100.00 | 245+84.03 | 27.76' RT | 265.52 | | 265.71 | | 265.84 | | 265.91 | | 265.92 | 801+68.71 | 29.12' LT |
| C597 | 18.91 | 30.96 | 35.00 | 801+68.71 | 29.12' LT | 265.92 | 265.81 | 265.66 | 265.55 | 265.53 | 265.62 | 265.71 | 265.76 | 265.75 | 800+76.89 | 13.35' LT |
| C598 | 78.45 | 14.98 | 300.00 | 800+29.21 | 13.00' RT | 265.54 | | | | 265.56 | | | | 265.59 | 800+47.57 | 12.22' RT |
| C599 | 22.41 | 12.84 | 100.00 | 800+47.57 | 12.22' RT | 265.59 | | 265.64 | | 265.69 | | 265.73 | | 265.76 | 800+73.49 | 12.25' RT |
| C590 | 33.66 | 6.84 | 282.00 | 800+73.49 | 12.25' RT | 265.76 | | 265.78 | | 265.75 | | 265.69 | | 265.60 | 801+21.18 | 14.76' RT |
| C591 | 45.37 | 26.00 | 100.00 | 801+21.18 | 14.76' RT | 265.60 | | 265.54 | | 265.67 | | 266.00 | | 266.23 | 801+68.58 | 28.70' RT |
| C592 | 83.53 | 47.86 | 100.00 | 801+68.58 | 28.70' RT | 266.23 | | | | 266.30 | | | | 266.26 | 246+67.34 | 31.86' RT |
| C593 | 26.15 | 42.82 | 35.00 | 246+67.34 | 31.86' RT | 266.26 | 266.12 | 265.88 | 265.64 | 265.44 | 265.27 | 265.14 | 265.05 | 264.99 | 247+39.43 | 17.61' RT |
| C594 | 95.17 | 18.18 | 300.00 | 247+39.43 | 17.61' RT | 264.99 | | | | 264.97 | | | | 265.00 | 247+63.38 | 19.62' RT |
| C600 | 17.24 | 3.49 | 283.00 | 248+37.30 | 22.00' LT | 265.36 | | | | 265.32 | | | | 265.28 | 248+19.41 | 22.24' LT |
| C601 | 36.71 | 8.69 | 242.00 | 248+19.41 | 22.24' LT | 265.28 | | 265.23 | | 265.19 | | 265.17 | | 265.10 | 247+85.08 | 22.15' LT |
| C602 | 34.75 | 19.91 | 100.00 | 247+85.08 | 22.15' LT | 265.10 | | 265.05 | | 265.01 | | 264.97 | | 264.94 | 247+53.16 | 17.69' LT |
| C603 | 73.09 | 41.88 | 100.00 | 247+53.16 | 17.69' LT | 264.94 | 264.96 | 265.00 | 265.09 | 265.21 | 265.36 | 265.55 | 265.72 | 265.81 | 246+79.50 | 26.81' LT |
| C604 | 27.43 | 44.91 | 35.00 | 246+79.50 | 26.81' LT | 265.81 | | 265.81 | | 265.76 | | 265.66 | | 265.50 | 802+52.59 | 28.21' RT |
| C605 | 133.59 | 38.27 | 200.00 | 802+52.59 | 28.21' RT | 265.50 | 265.12 | 264.92 | 294.98 | 295.23 | 265.48 | 265.73 | 265.98 | 266.25 | 803+88.86 | 12.00' RT |
| C606 | 49.00 | 10.71 | 262.00 | 803+88.86 | 12.00' LT | 266.25 | 266.35 | 266.45 | 266.55 | 266.65 | 266.75 | 266.85 | 266.95 | 267.05 | 804+35.61 | 12.00' RT |
| C607 | 59.21 | 14.25 | 238.00 | 804+35.61 | 12.00' LT | 267.32 | 267.13 | 266.94 | 266.74 | 266.55 | 266.39 | 266.25 | 266.13 | 266.04 | 803+73.92 | 12.10' LT |
| C608 | 82.00 | 22.16 | 212.00 | 803+73.92 | 12.10' LT | 266.04 | 265.91 | 265.78 | 265.65 | 265.52 | 265.39 | 265.26 | 265.13 | 265.00 | 802+97.27 | 15.40' LT |
| C609 | 22.41 | 14.27 | 90.00 | 802+97.27 | 15.40' LT | 265.00 | | | | 264.95 | | | | 264.04 | 802+75.04 | 19.34' LT |
| C610 | 41.76 | 72.51 | 33.00 | 802+75.04 | 19.34' LT | 264.04 | | 265.22 | | 265.31 | | 265.29 | | 265.15 | 245+76.79 | 22.80' LT |
| C611 | 29.14 | 5.57 | 300.00 | 245+76.79 | 22.80' LT | 265.15 | | 264.99 | | 264.83 | | 264.68 | | 264.54 | 245+50.03 | 16.87' LT |
| C612 | 11.30 | 12.95 | 50.00 | 245+50.03 | 16.87' LT | 264.54 | | | | 264.44 | | | | 264.34 | 245+39.36 | 17.09' LT |
| L207 | 37.13 | S82° 01' 06.03"E | | 245+39.36 | 17.09' LT | 264.34 | | 264.18 | | 264.02 | | 263.86 | | 263.75 | 245+03.14 | 23.96' LT |

### HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

### VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

Know what's **below.** **Call** before you dig.

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| REVISIONS | DATE | BY |
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-06
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & 83RD ROUNDABOUT GRADING PLAN

DRAWING NO. 68 OF 169
RAB16


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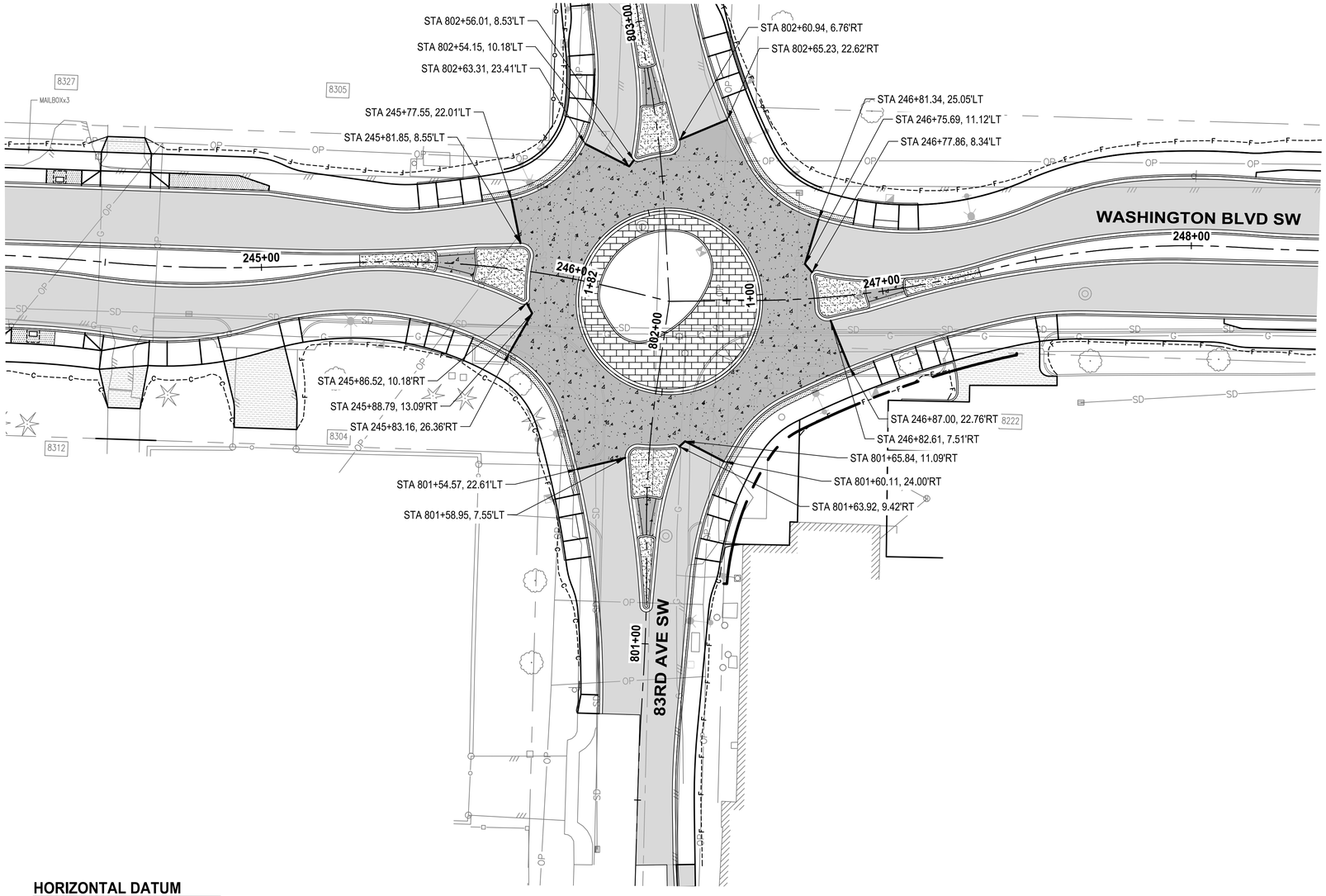


## GENERAL NOTES

1. CONTRACTOR SHALL PREPARE JOINTING PLAN PER WSDOT STD PLAN A-40.10-04 AND A-40.15-00
2. SEE SPECIFICATIONS FOR ADDITIONAL PAVEMENT INFORMATION

## LEGEND

10" CEMENT CONC. PAVEMENT
3" CSTC

6" HMA CLA 1/2 IN PG 58H-22
4" CSTC

## HORIZONTAL DATUM

HORIZONTAL DATUM IS NAD 1983, WASHINGTON STATE PLANE SOUTH ZONE PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

## VERTICAL DATUM

VERTICAL DATUM IS NAVD88 PER CONTROL PROVIDED BY AHBL FOR WASHINGTON BLVD. MAPPING.

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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-06
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# WASHINGTON & 83RD ROUNDABOUT PAVING PLAN

DRAWING NO. 69 OF 169
RAB17


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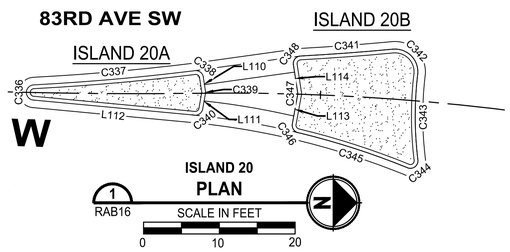



| SPLITTER ISLAND 20A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C336 | 3.00 | 171.64 | 1.00 | 265.93 | 265.95 | 265.93 |
| C337 | 21.38 | 4.07 | 301.00 | 265.93 | 265.85 | 265.83 |
| C338 | 1.54 | 88.30 | 1.00 | 265.83 | 265.84 | 265.85 |
| L110 | 1.88 | S81° 13' 21.31"W | | 265.85 | 265.87 | 265.89 |
| C339 | 0.33 | 19.03 | 1.00 | 265.89 | 265.90 | 265.89 |
| L111 | 2.06 | N79° 45' 02.12"W | | 265.89 | 265.87 | 265.85 |
| C340 | 1.49 | 85.11 | 1.00 | 265.85 | 265.83 | 265.83 |
| L112 | 21.37 | N5° 21' 29.06"E | | 265.83 | 265.85 | 265.93 |

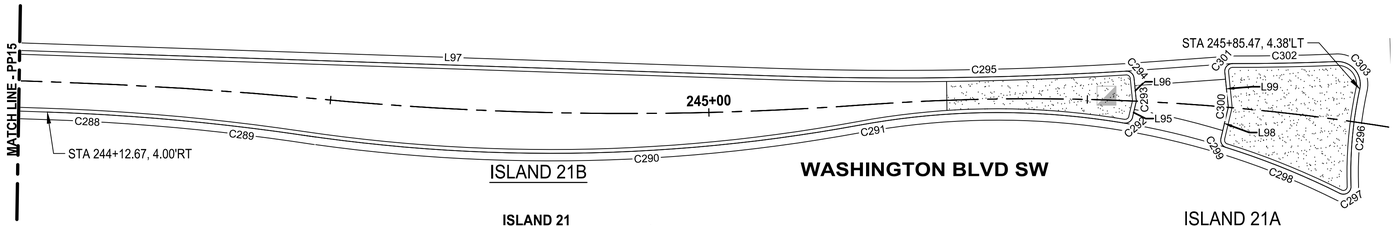
| SPLITTER ISLAND 20B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C341 | 12.24 | 2.21 | 316.58 | 265.90 | 265.97 | 266.06 |
| C342 | 5.34 | 101.99 | 3.00 | 266.06 | 266.12 | 266.17 |
| C343 | 11.29 | 13.61 | 47.52 | 266.17 | 266.23 | 266.26 |
| C344 | 2.08 | 119.06 | 1.00 | 266.26 | 266.25 | 266.22 |
| C345 | 15.19 | 8.61 | 101.00 | 266.22 | 266.03 | 265.91 |
| C346 | 1.51 | 86.76 | 1.00 | 265.91 | 265.91 | 265.92 |
| L113 | 3.90 | N79° 45' 02.12"W | | 265.92 | 265.95 | 265.98 |
| C347 | 0.33 | 19.03 | 1.00 | 265.98 | 265.98 | 265.98 |
| L114 | 3.67 | S81° 13' 21.31"W | | 265.98 | 265.94 | 265.91 |
| C348 | 1.67 | 95.64 | 1.00 | 265.91 | 265.90 | 265.90 |

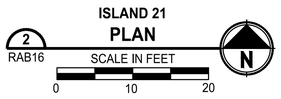
**GENERAL NOTE:**

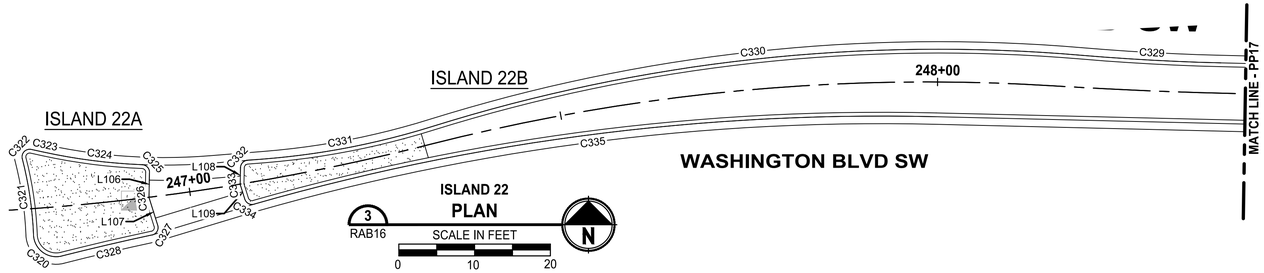
1. ALL ELEVATIONS ARE FROM BOTTOM/FACE OF CURB

| SPLITTER ISLAND 21B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C288 | 8.02 | 1.53 | 300.00 | 263.56 | 263.57 | 263.65 |
| C289 | 25.78 | 4.92 | 300.00 | 263.65 | 263.66 | 263.71 |
| C290 | 73.87 | 18.81 | 225.00 | 263.71 | 263.91 | 264.33 |
| C291 | 35.11 | 19.94 | 100.89 | 264.33 | 264.62 | 264.93 |
| C292 | 1.51 | 86.23 | 1.00 | 264.93 | 264.95 | 264.96 |
| L95 | 2.04 | S13° 15' 36.44"W | | 264.96 | 264.99 | 265.01 |
| C293 | 0.33 | 19.04 | 1.00 | 265.01 | 265.02 | 265.01 |
| L96 | 2.89 | S5° 46' 43.72"E | | 265.01 | 264.98 | 264.94 |
| C294 | 1.53 | 87.66 | 1.00 | 264.94 | 264.92 | 264.90 |
| C295 | 46.88 | 5.37 | 500.00 | 264.90 | 264.50 | 264.15 |
| L97 | 85.53 | S88° 04' 00.20"E | | 264.15 | 263.80 | 263.61 |

| SPLITTER ISLAND 21A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C296 | 12.93 | 14.10 | 52.55 | 265.54 | 265.61 | 265.64 |
| C297 | 2.07 | 118.48 | 1.00 | 265.64 | 265.63 | 265.59 |
| C298 | 16.24 | 9.21 | 101.00 | 265.59 | 265.35 | 265.18 |
| C299 | 1.50 | 85.90 | 1.00 | 265.18 | 265.18 | 265.18 |
| L98 | 4.10 | N13° 15' 36.44"E | | 265.18 | 265.22 | 265.25 |
| C300 | 0.33 | 19.04 | 1.00 | 265.25 | 265.26 | 265.25 |
| L99 | 4.49 | N5° 46' 43.72"W | | 265.25 | 265.21 | 265.16 |
| C301 | 1.67 | 95.94 | 1.00 | 265.16 | 265.15 | 265.16 |
| C302 | 13.76 | 2.56 | 307.49 | 265.16 | 265.31 | 265.44 |
| C303 | 5.48 | 104.60 | 3.00 | 265.44 | 265.50 | 265.54 |

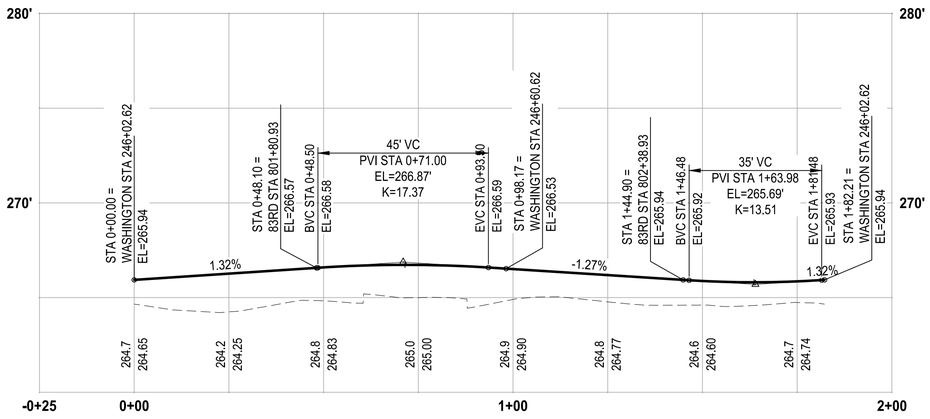


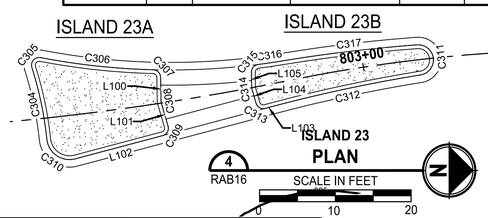

| SPLITTER ISLAND 22A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C320 | 5.34 | 102.00 | 3.00 | 266.06 | 266.14 | 266.18 |
| C321 | 10.17 | 12.27 | 47.52 | 266.18 | 266.15 | 266.11 |
| C322 | 2.05 | 117.42 | 1.00 | 266.11 | 266.09 | 266.07 |
| C323 | 3.31 | 1.86 | 102.00 | 266.07 | 266.05 | 266.02 |
| C324 | 11.49 | 8.77 | 75.00 | 266.02 | 265.92 | 265.82 |
| C325 | 1.55 | 88.77 | 1.00 | 265.82 | 265.81 | 265.81 |
| L106 | 3.15 | N1° 02' 18.88"E | | 265.81 | 265.84 | 265.86 |
| C326 | 0.32 | 18.47 | 1.00 | 265.86 | 265.87 | 265.86 |
| L107 | 3.68 | N17° 25' 35.43"W | | 265.86 | 265.83 | 265.80 |
| C327 | 1.67 | 95.42 | 1.00 | 265.80 | 265.79 | 265.80 |
| C328 | 12.23 | 2.25 | 311.55 | 265.80 | 265.92 | 266.06 |

| SPLITTER ISLAND 22B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C329 | 18.32 | 3.49 | 300.98 | 265.72 | 265.67 | 265.63 |
| C330 | 86.85 | 22.22 | 224.00 | 265.63 | 265.41 | 265.37 |
| C331 | 24.82 | 14.08 | 101.00 | 265.37 | 265.46 | 265.60 |
| C332 | 1.50 | 85.69 | 1.00 | 265.60 | 265.62 | 265.63 |
| L108 | 2.06 | N1° 02' 18.88"E | | 265.63 | 265.65 | 265.67 |
| C333 | 0.32 | 18.47 | 1.00 | 265.67 | 265.68 | 265.67 |
| L109 | 1.88 | N17° 25' 35.43"W | | 265.67 | 265.65 | 265.63 |
| C334 | 1.55 | 88.54 | 1.00 | 265.63 | 265.62 | 265.60 |
| C335 | 91.10 | 17.34 | 301.00 | 265.60 | 265.33 | 265.53 |




**TRUCK APRON PROFILE**

HORIZ: 1=20
VERT: 1=4




| SPLITTER ISLAND 23A | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C304 | 9.70 | 11.69 | 47.58 | 265.59 | 265.56 | 265.53 |
| C305 | 2.07 | 118.57 | 1.00 | 265.53 | 265.51 | 265.49 |
| C306 | 14.98 | 9.43 | 91.00 | 265.49 | 265.38 | 265.29 |
| C307 | 1.53 | 87.49 | 1.00 | 265.29 | 265.29 | 265.30 |
| L100 | 3.13 | N88° 57' 19.26"E | | 265.30 | 265.33 | 265.36 |
| C308 | 0.26 | 15.14 | 1.00 | 265.36 | 265.37 | 265.36 |
| L101 | 3.19 | N73° 48' 40.77"E | | 265.36 | 265.33 | 265.30 |
| C309 | 1.59 | 91.32 | 1.00 | 265.30 | 265.29 | 265.29 |
| L102 | 11.94 | S14° 51' 54.77"E | | 265.29 | 265.36 | 265.47 |
| C310 | 5.20 | 99.26 | 3.00 | 265.47 | 265.55 | 265.59 |

| SPLITTER ISLAND 23B | | | | FLOWLINE ELEVATIONS | | |
|---|---|---|---|---|---|---|
| Line #/Curve # | Length | Bearing/Delta | Radius | | | |
| C311 | 6.11 | 175.07 | 2.00 | 265.40 | 265.47 | 265.41 |
| C312 | 20.04 | 5.71 | 201.00 | 265.41 | 265.29 | 265.24 |
| L103 | 0.94 | N14° 51' 54.77"W | | 265.24 | 265.24 | 265.24 |
| C313 | 1.55 | 88.68 | 1.00 | 265.24 | 265.25 | 265.26 |
| L104 | 1.92 | N73° 48' 40.77"E | | 265.26 | 265.28 | 265.30 |
| C314 | 0.26 | 15.14 | 1.00 | 265.30 | 265.31 | 265.30 |
| L105 | 1.99 | N88° 57' 19.26"E | | 265.30 | 265.28 | 265.26 |
| C315 | 1.46 | 83.77 | 1.00 | 265.26 | 265.25 | 265.24 |
| C316 | 3.32 | 2.09 | 91.00 | 265.24 | 265.29 | 265.41 |
| C317 | 17.84 | 5.14 | 199.00 | 265.41 | 265.47 | 265.40 |

83RD AVE SW

83RD

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toykokat DATE: Wednesday, January 12, 2022 4:58:42 PM
LAYOUT: RAB18

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |
| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-06
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
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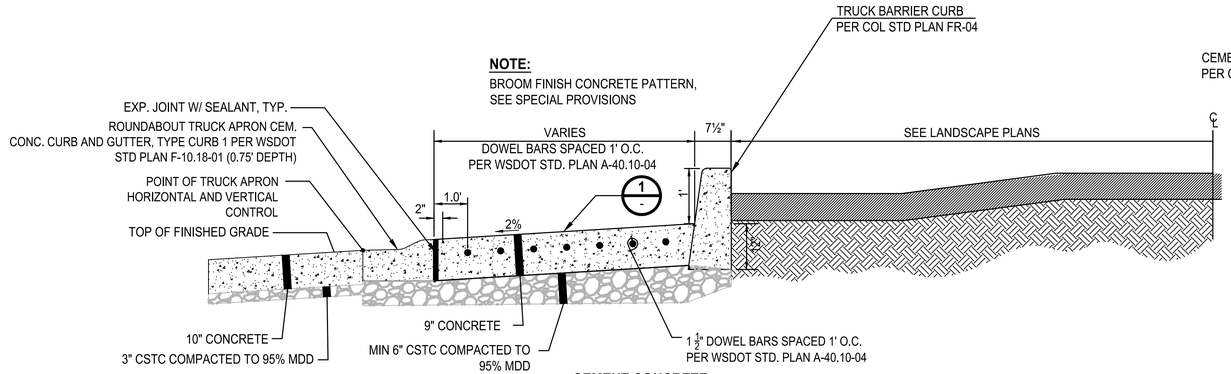
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

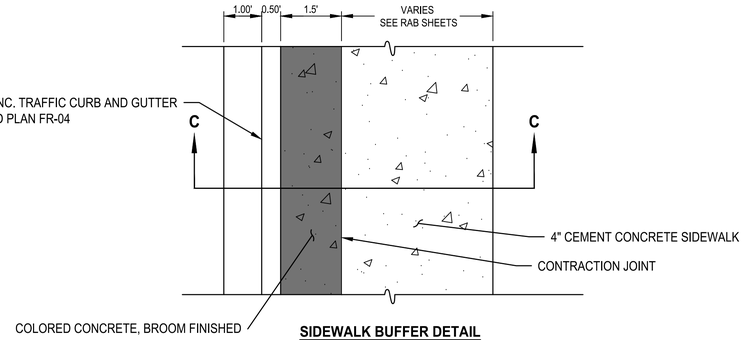
# WASHINGTON & 83RD ROUNDABOUT GRADING DETAILS

DRAWING NO. 70 OF 169

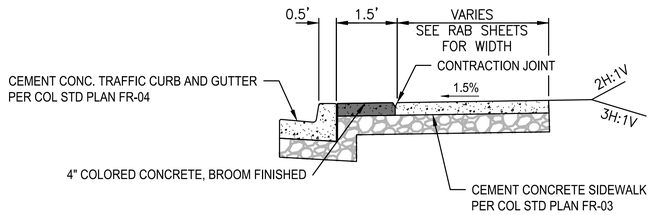
RAB18



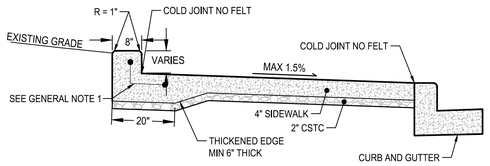

**CEMENT CONCRETE TRUCK APRON**
**SECTION** A
NO SCALE




**SIDEWALK BUFFER DETAIL**
**DETAIL** 2
NO SCALE



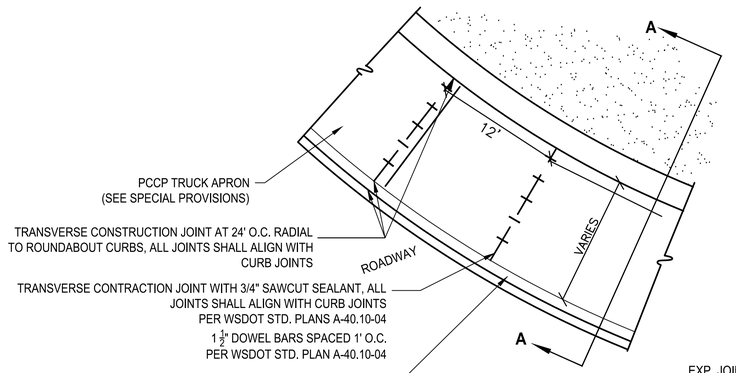

**SIDEWALK BUFFER DETAIL**
**SECTION** C
NO SCALE



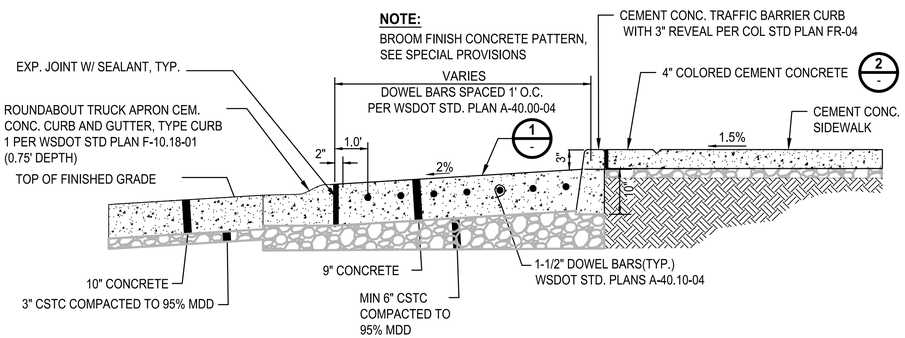

**INTEGRAL CURB** 5 TYP
NO SCALE

GENERAL NOTE

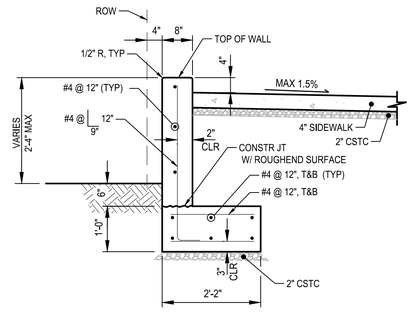
1. 6"X18" #4 EL DEPENDANT ON WALL HEIGHT; SPACED 30" ON CENTER; (2) #4 LONGITUDINAL CONTINUOUS EXPANSION JOINT @ 45' O.C.



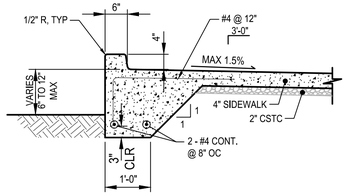

**CEMENT CONCRETE TRUCK APRON - SURFACE**
**DETAIL** 1
NO SCALE




**CEMENT CONCRETE OUTSIDE TRUCK APRON**
**SECTION** B
NO SCALE




**CIP FILL WALL** 6 TYP
NO SCALE




**THICKENED EDGE** 7 TYP
NO SCALE

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-DT
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSE STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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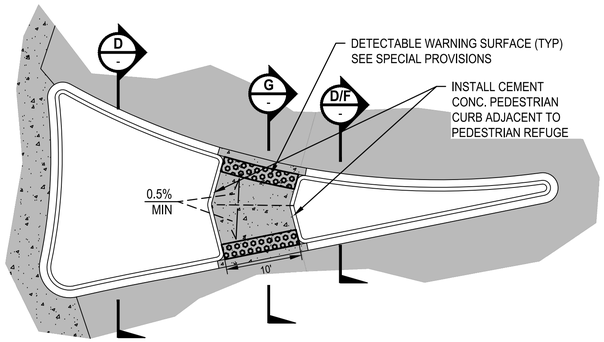
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

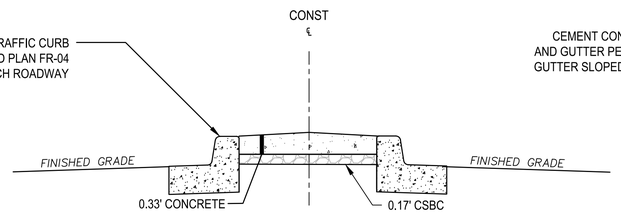
# ROUNDABOUT DETAILS

DRAWING NO. 71 OF 169
**RAB19**

LAYOUT: RAB19 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: tayokat DATE: Wednesday, January 12, 2022 5:04:06 PM

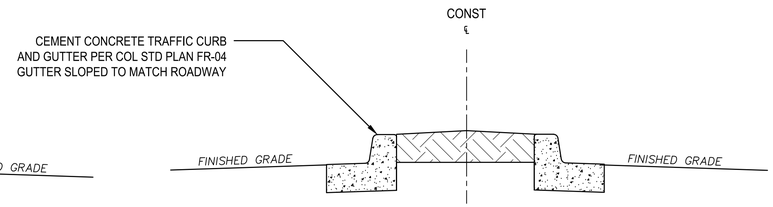



**TYP. SPLITTER ISLAND**
**DETAIL** 3
NO SCALE -



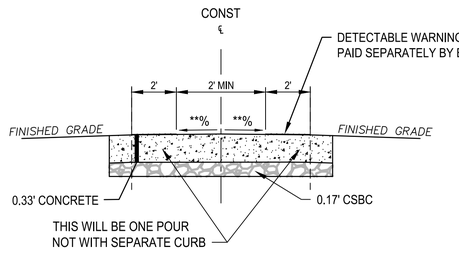

**CEMENT CONCRETE SPLITTER ISLAND**
**SECTION** D
NO SCALE

**NOTE:**
1. SEE RAB SHEETS FOR GRADING INFORMATION.




**LANDSCAPE ISLAND**
**SECTION** F
NO SCALE

**NOTE:**
1. SEE RAB SHEETS FOR GRADING INFORMATION.
2. SEE LS AND RD SHEETS SHEETS FOR MEDIAN FILL




**PEDESTRIAN REFUGE**
**SECTION** G
NO SCALE

**NOTE:**
1. SEE RAB SHEETS FOR GRADING INFORMATION.
** 0.5% MINIMUM SLOPE, 1.5% MAXIMUM SLOPE

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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DESIGNED S.M. CRAIG
DRAWN C. WOODCOCK
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-RAB-DT
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

KEVIN L. HOUSER STATE OF WASHINGTON 41824 REGISTERED PROFESSIONAL ENGINEER
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P 253.627.4367
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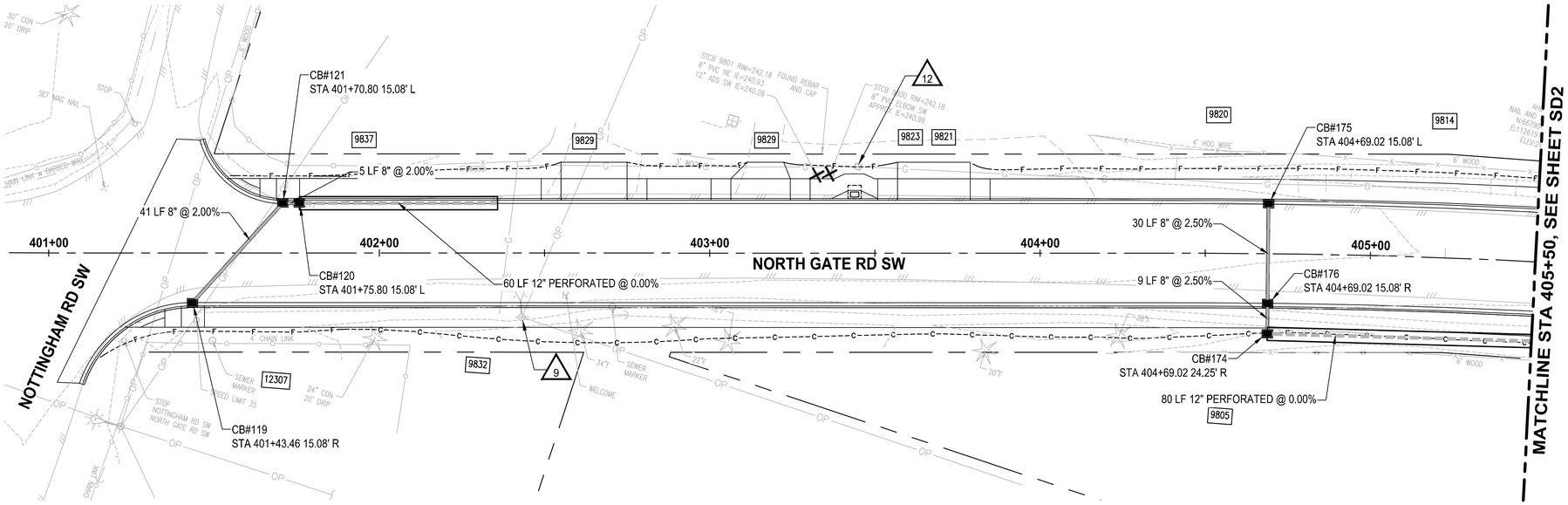
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

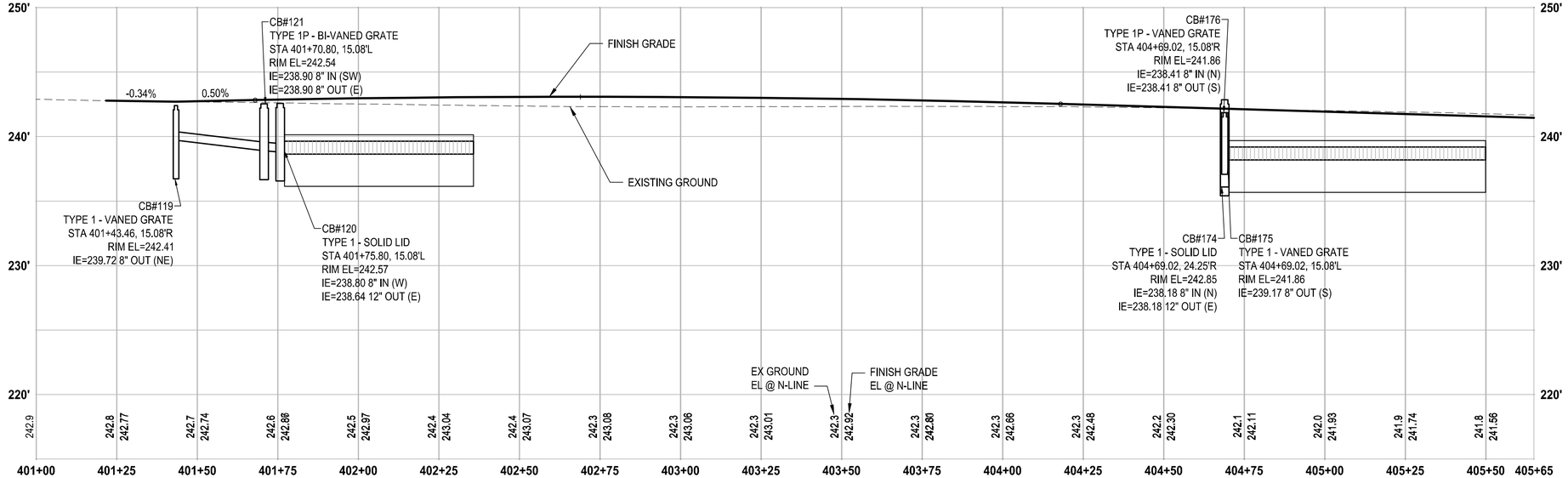
# ROUNDABOUT DETAILS

DRAWING NO. 72 OF 169
**RAB20**


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 12, 2022 5:04:09 PM
LAYOUT: RAB20




PLAN
SCALE IN FEET
0 20 40




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CRILLO STATE OF WASHINGTON 36883 REGISTERED PROFESSIONAL ENGINEER 01/27/22

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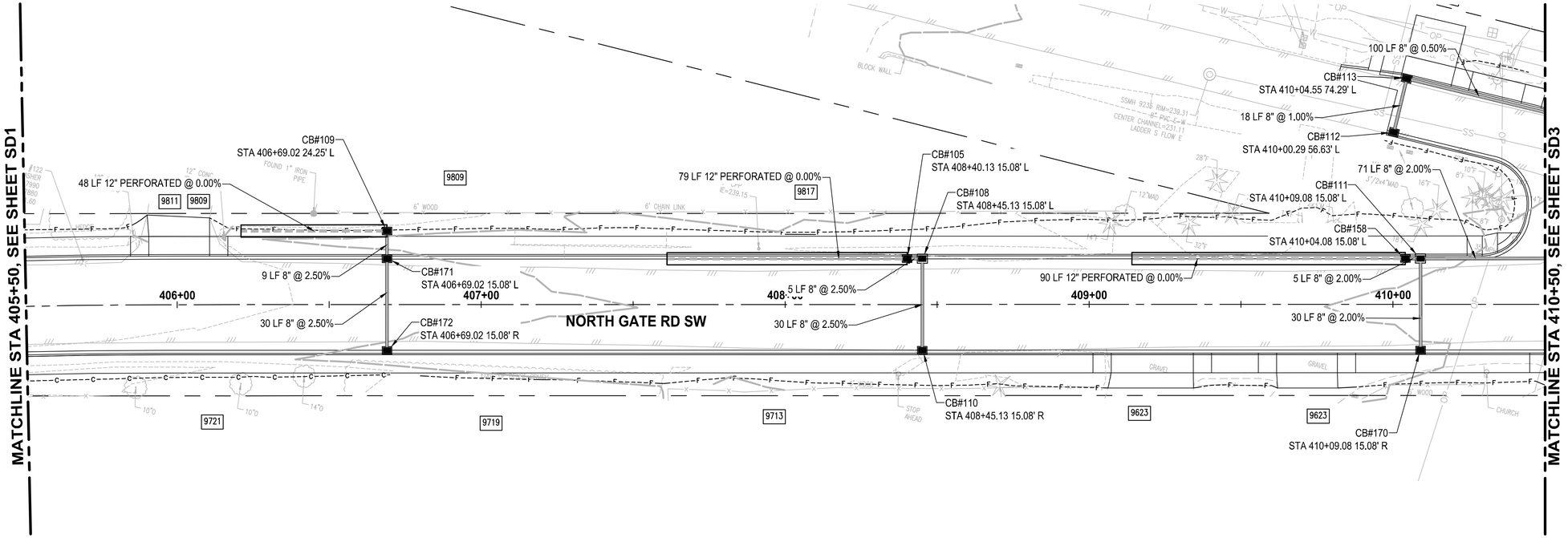
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 73 OF 169
SD1

LAYOUT: SD1 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:54:41 PM




**PLAN**

SCALE IN FEET

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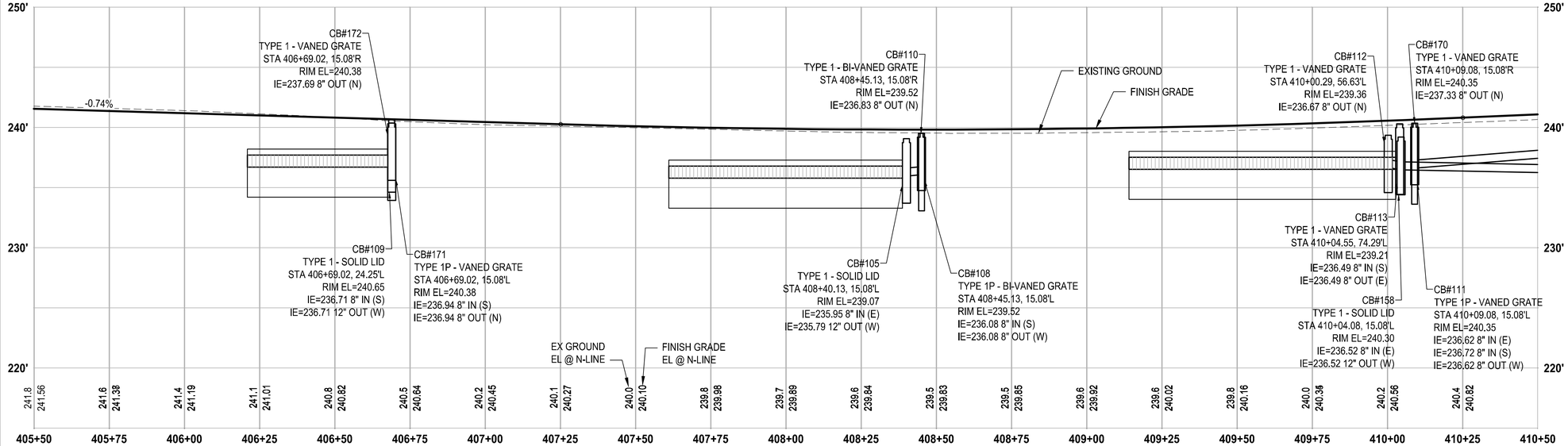


**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CHILLAG 01/27/22 STATE OF WASHINGTON 53008 REGISTERED PROFESSIONAL ENGINEER


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

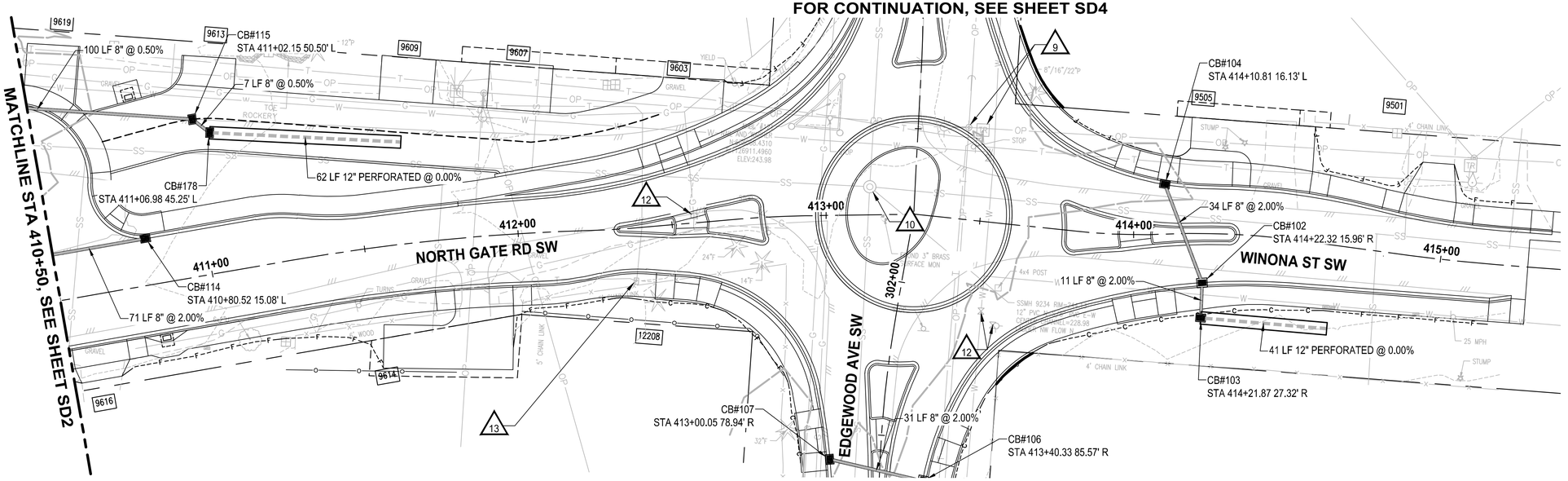
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 74 OF 169

**SD2**


PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:55:00 PM
PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2
LAYOUT: SD2 STORM DRAIN PLAN AND PROFILE

FOR CONTINUATION, SEE SHEET SD4




FOR CONTINUATION, SEE SHEET SD4

PLAN
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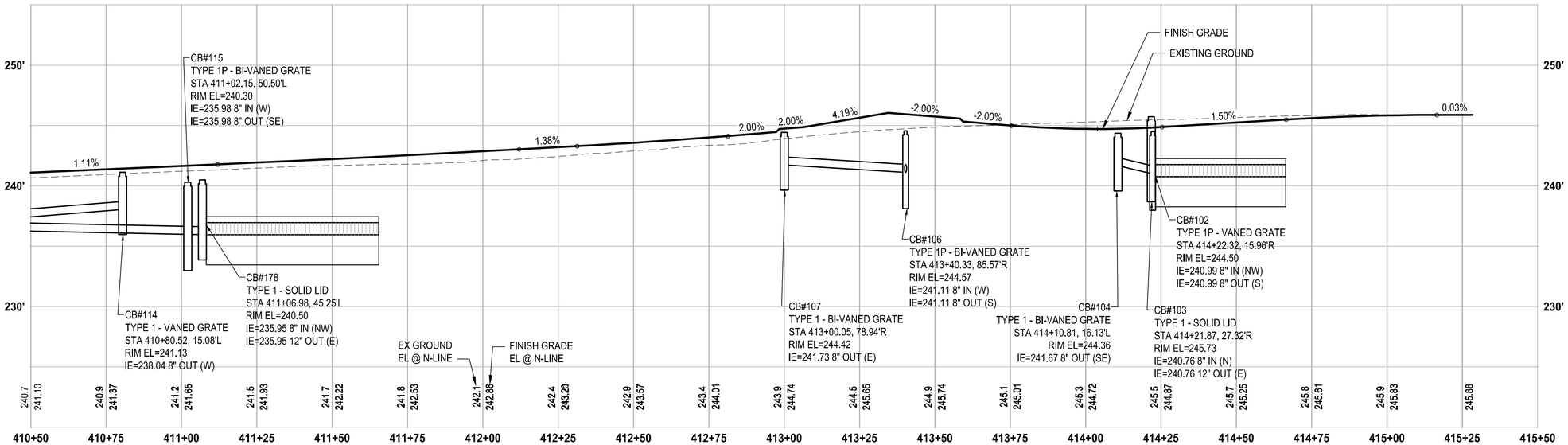


PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD01-05
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CRILLO 55063 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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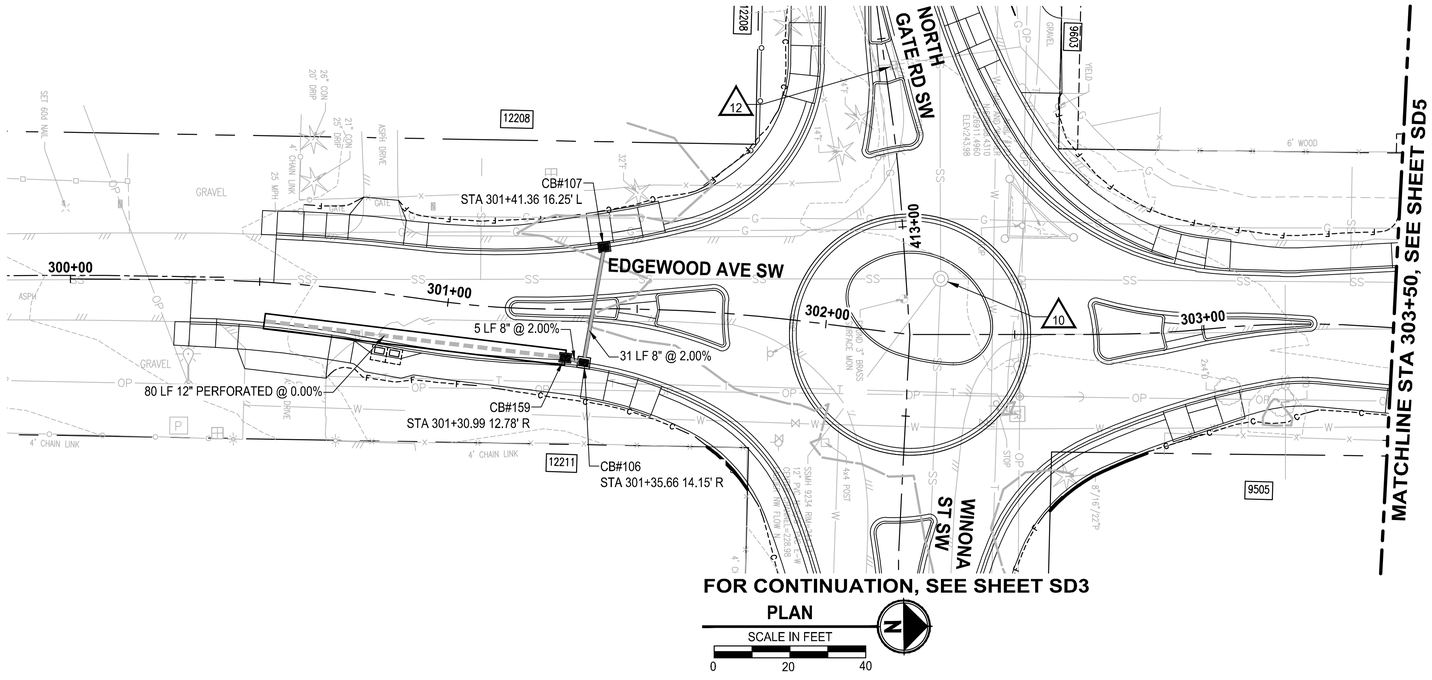
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 75 OF 169
SD3

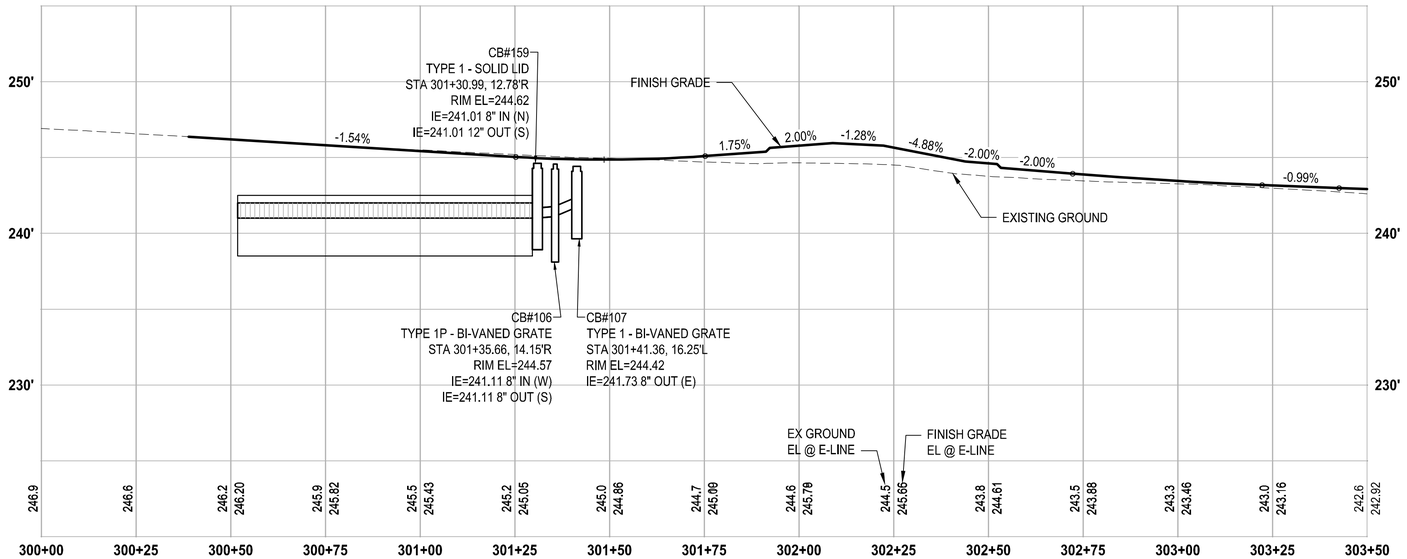
LAYOUT: SD3 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:55:20 PM




PLAN

SCALE IN FEET

0 20 40




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
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   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
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7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
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- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL 2/DT5
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

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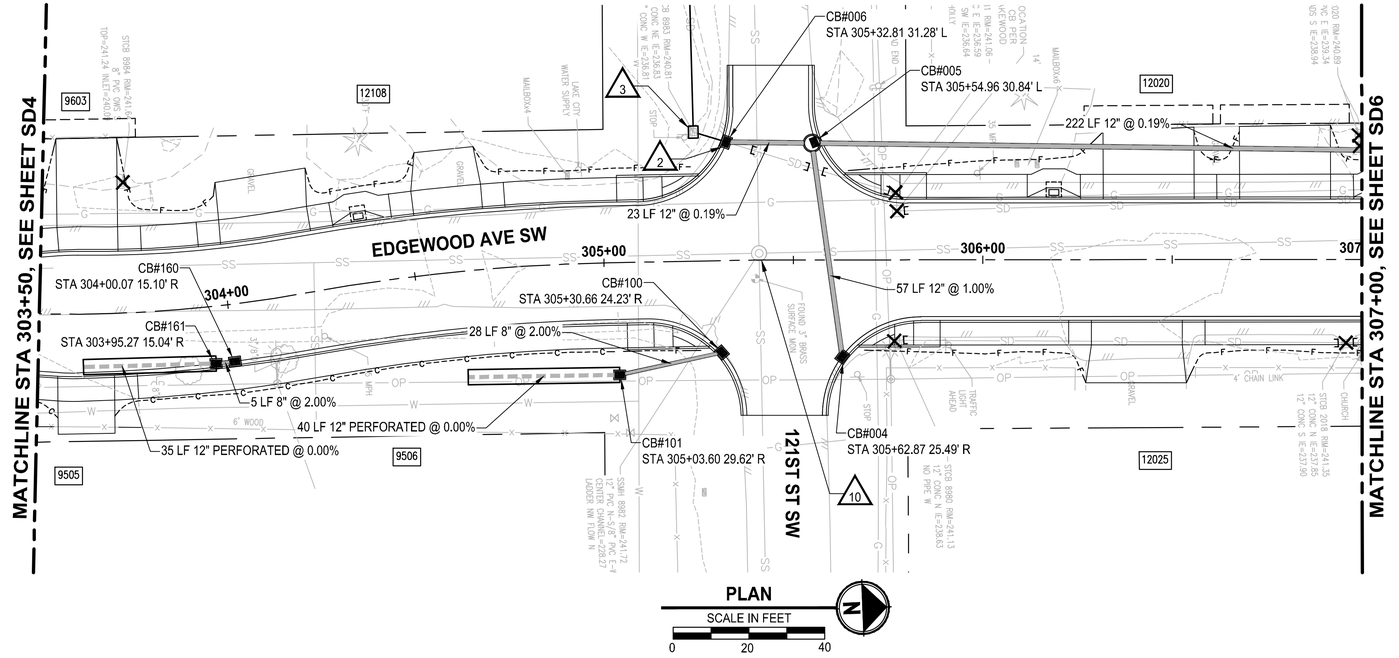
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

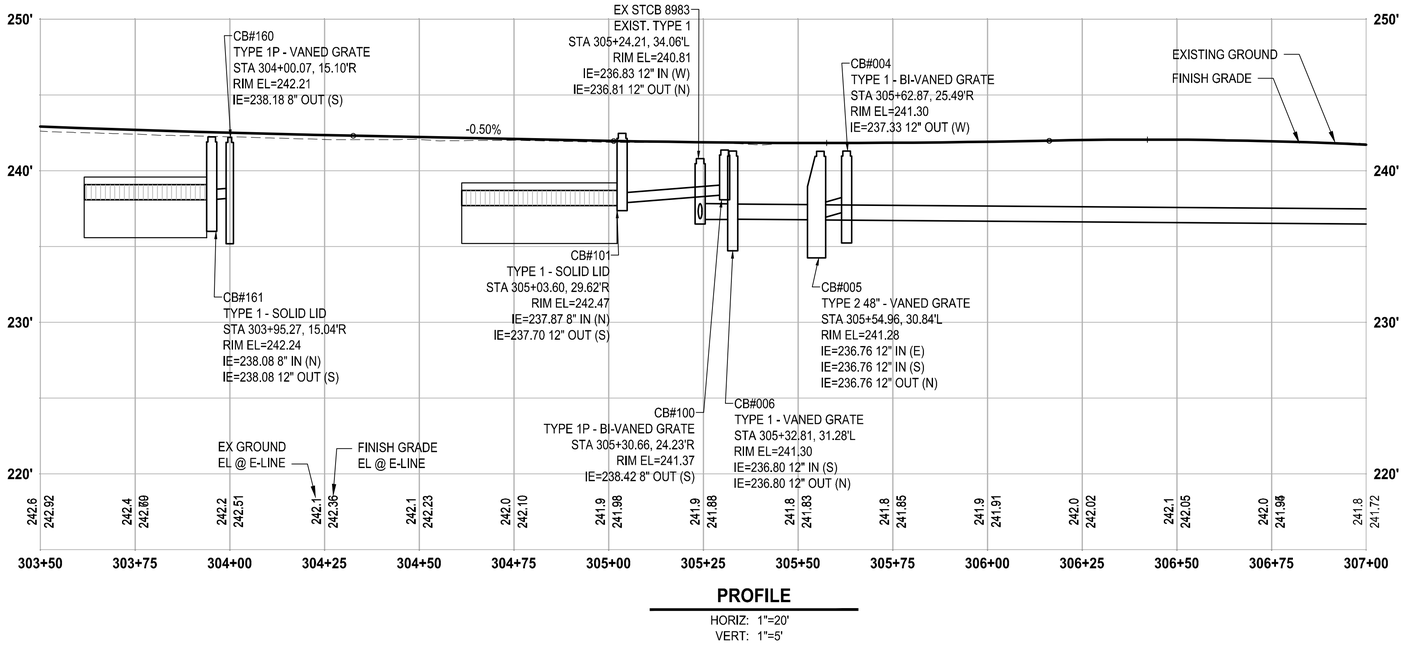
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 76 OF 169

SD4

LAYOUT: SD4 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:55:40 PM




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

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2. CONNECT TO EXISTING STORM PIPE
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## GENERAL NOTES

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## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
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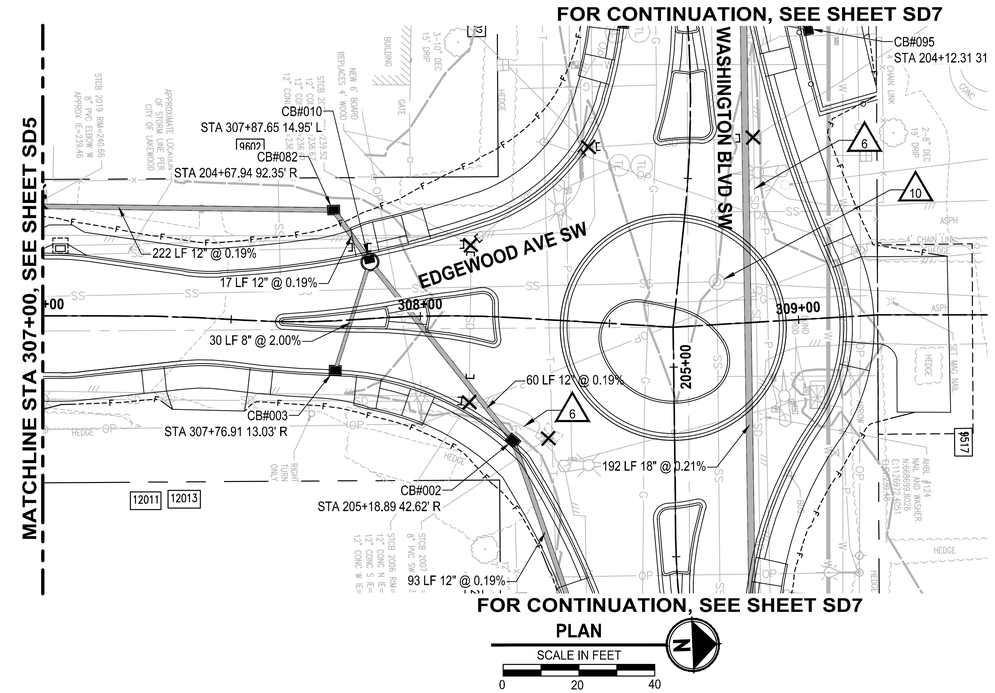
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO.
77 OF 169

**SD5**


LAYOUT: SD5 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 — JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:56:01 PM




PLAN

SCALE IN FEET

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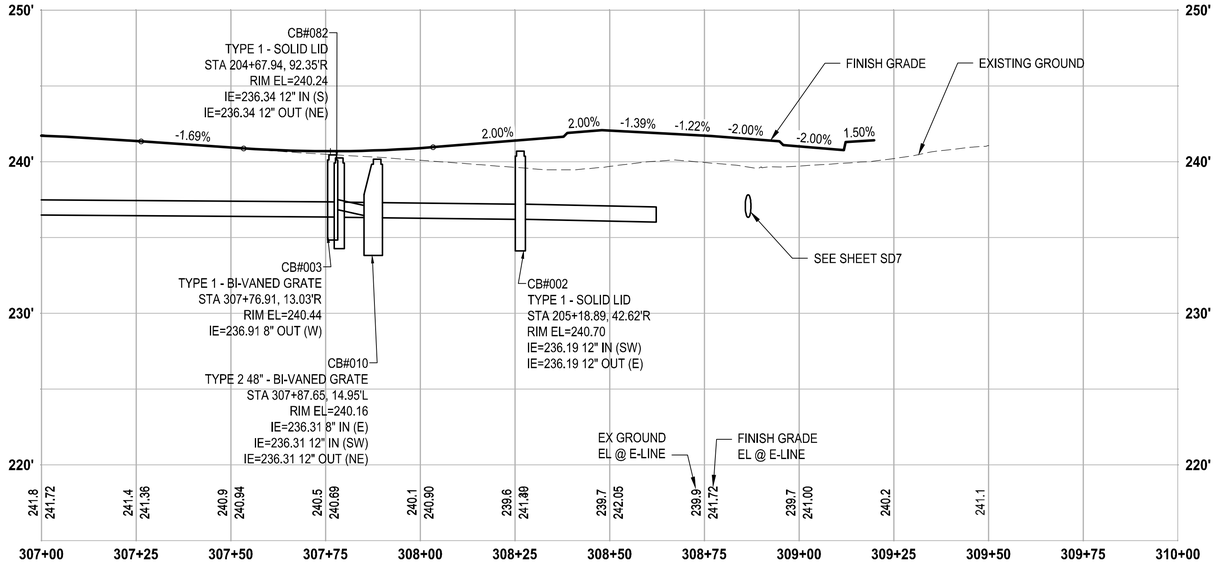


PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

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2. CONNECT TO EXISTING STORM PIPE
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6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
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9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
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## GENERAL NOTES

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7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CRILLO STATE OF WASHINGTON 55883 REGISTERED PROFESSIONAL ENGINEER 01/27/22

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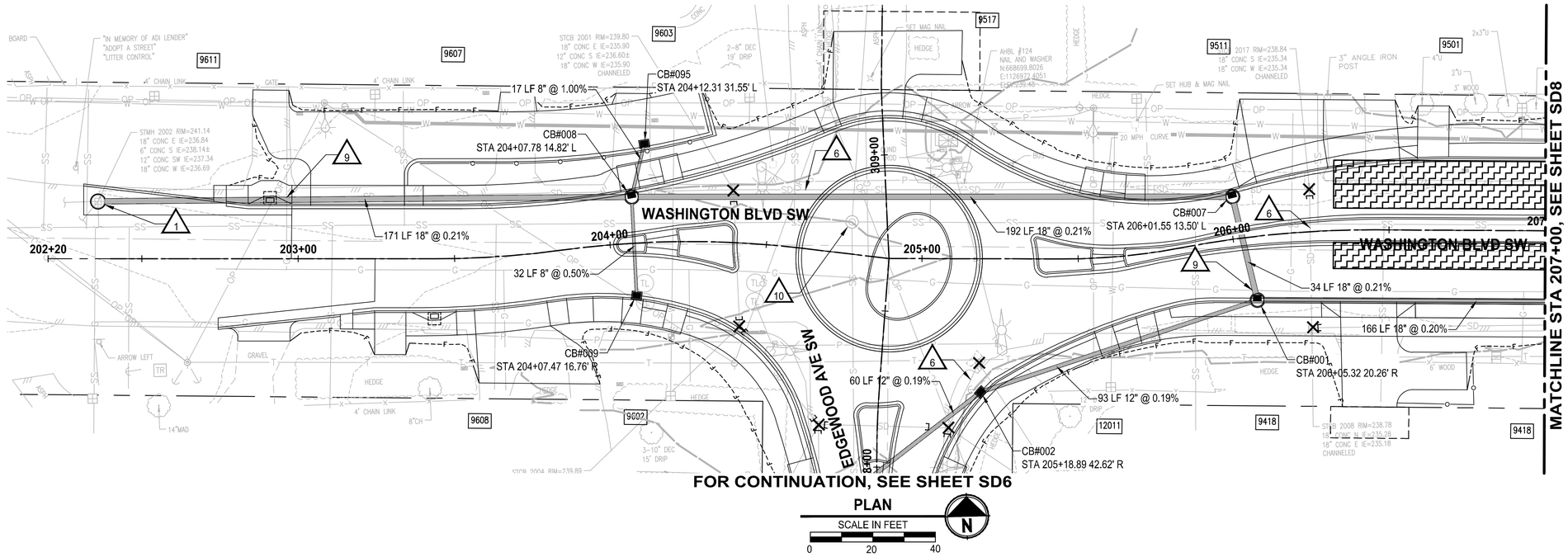
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 78 OF 169

SD6

LAYOUT: SD6 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:57:15 PM




PLAN

SCALE IN FEET

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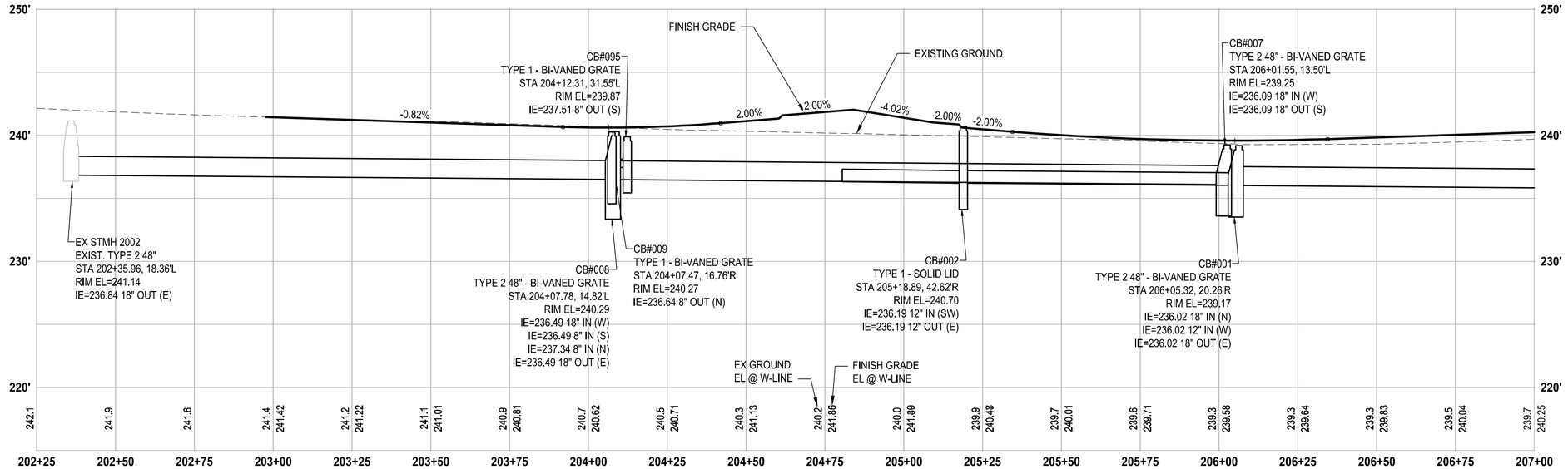


PROFILE

HORIZ: 1"=20'
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## STORM DRAINAGE AND UTILITY NOTES

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2. CONNECT TO EXISTING STORM PIPE
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## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

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CITY OF LAKEWOOD WA 1996

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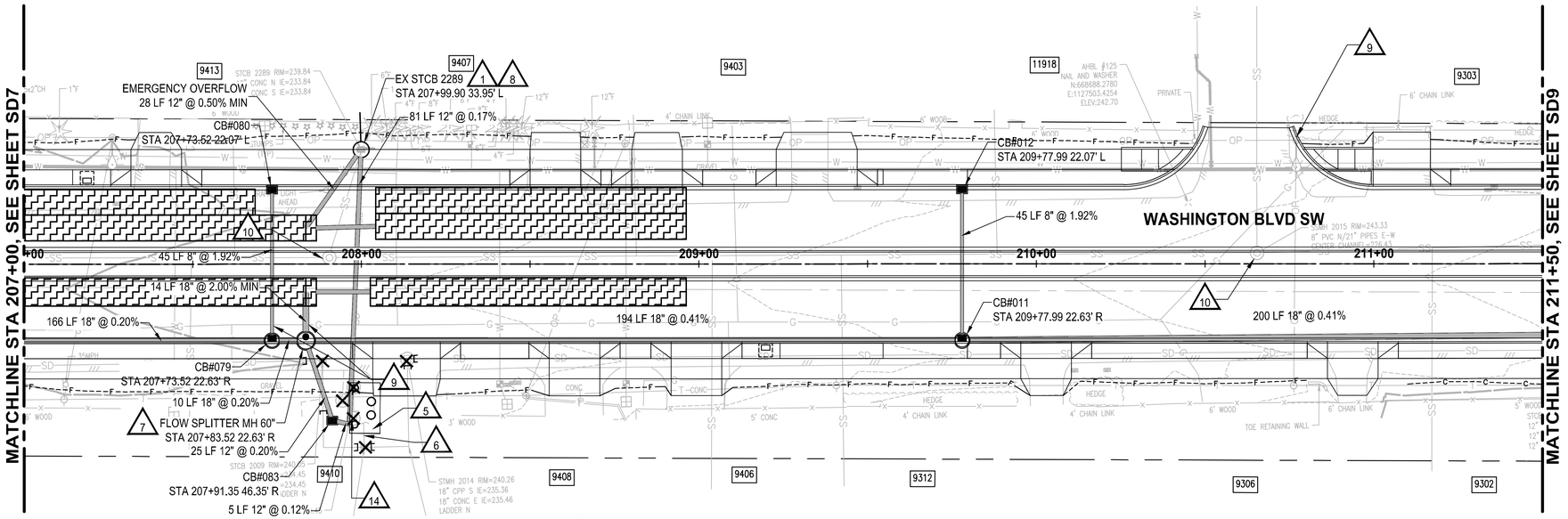
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

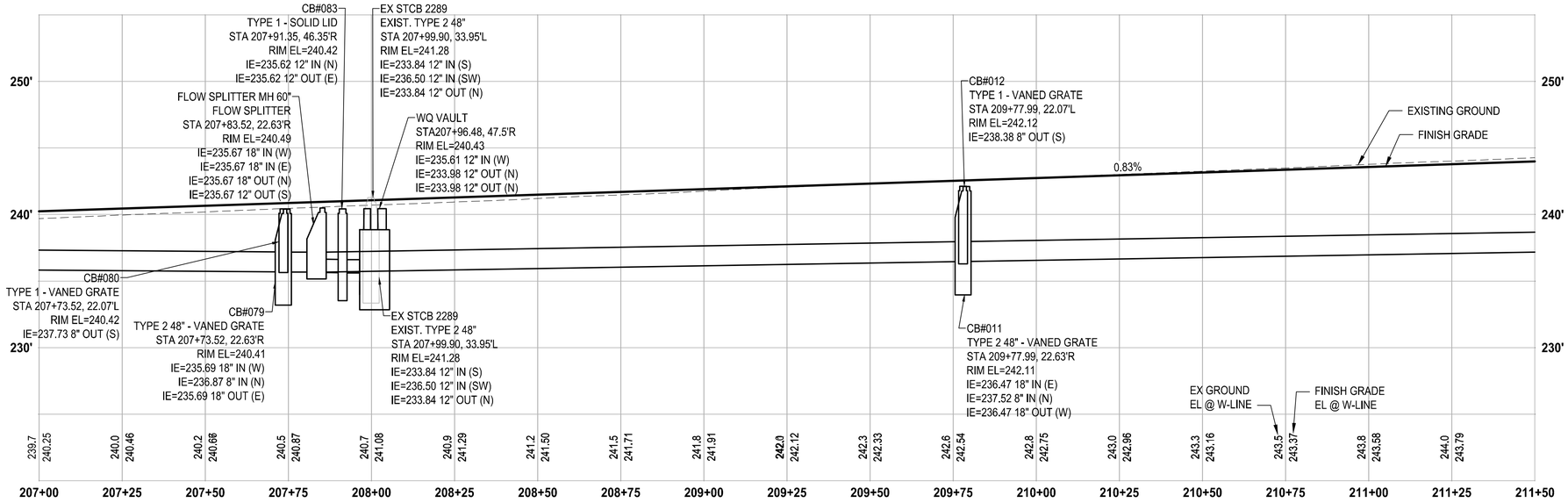
DRAWING NO. 79 OF 169

SD7

PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:57:47 PM
LAYOUT: SD7 STORM DRAIN PLAN AND PROFILE




**PLAN**
SCALE IN FEET
0 20 40




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CRILLO — STATE OF WASHINGTON — 36883 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22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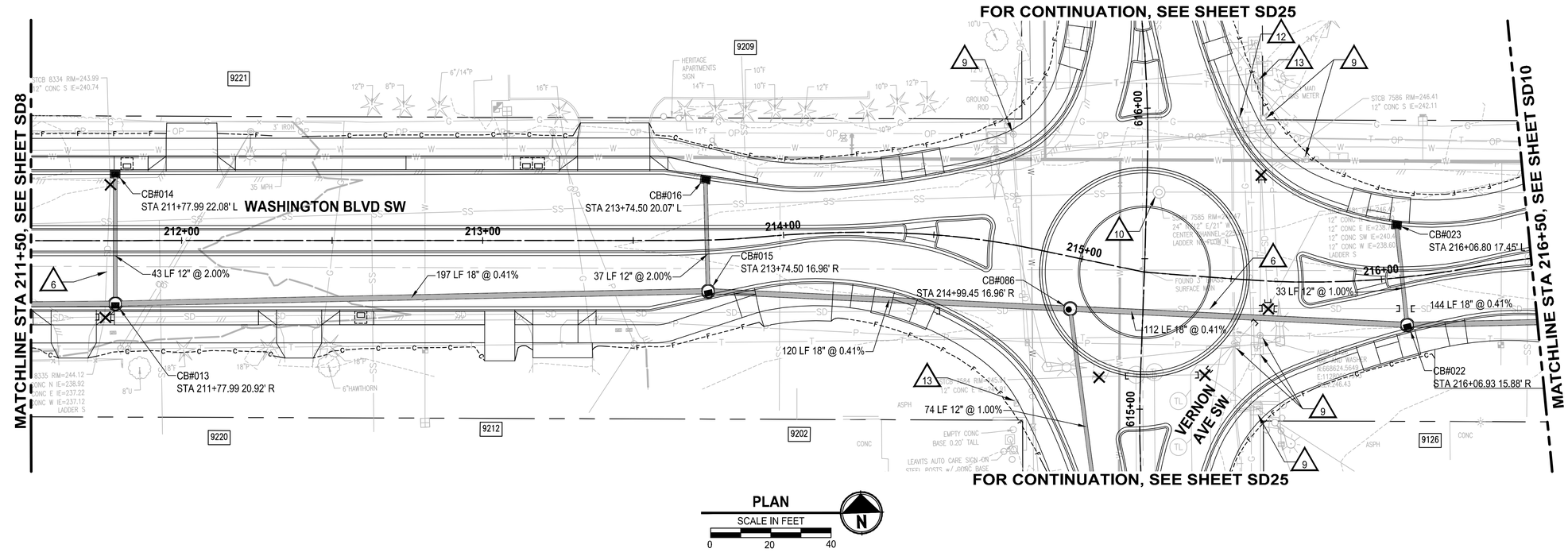
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 80 OF 169
SD8

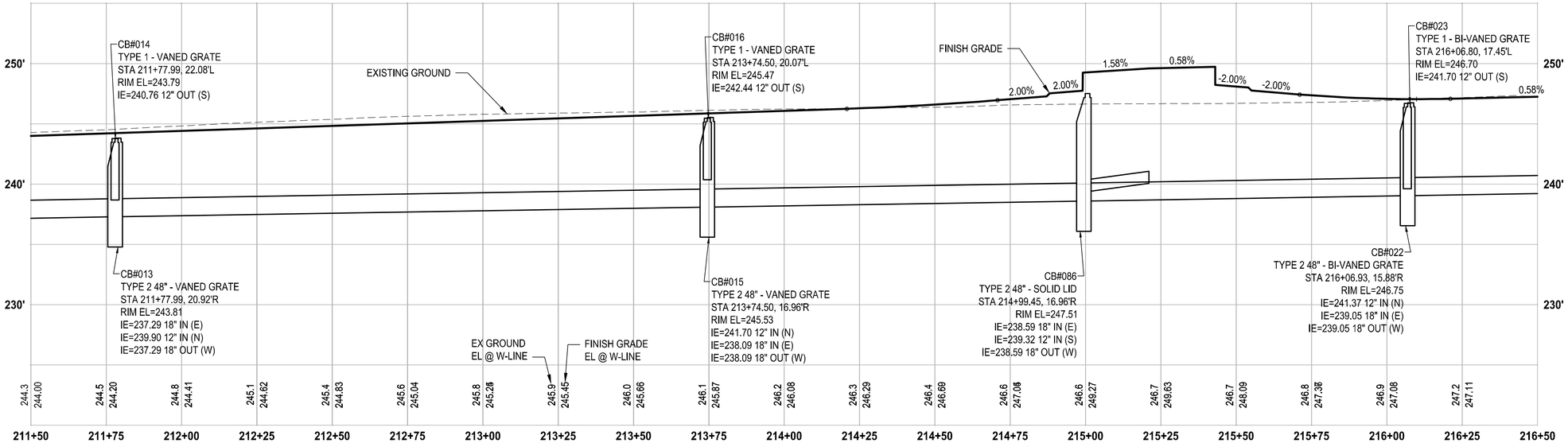

LAYOUT: SD8 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 — JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:58:13 PM




PLAN

SCALE IN FEET

0 20 40




PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CHILLID STATE OF WASHINGTON 55063 REGISTERED PROFESSIONAL ENGINEER 01/27/22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WWW.BCRADESIGN.COM

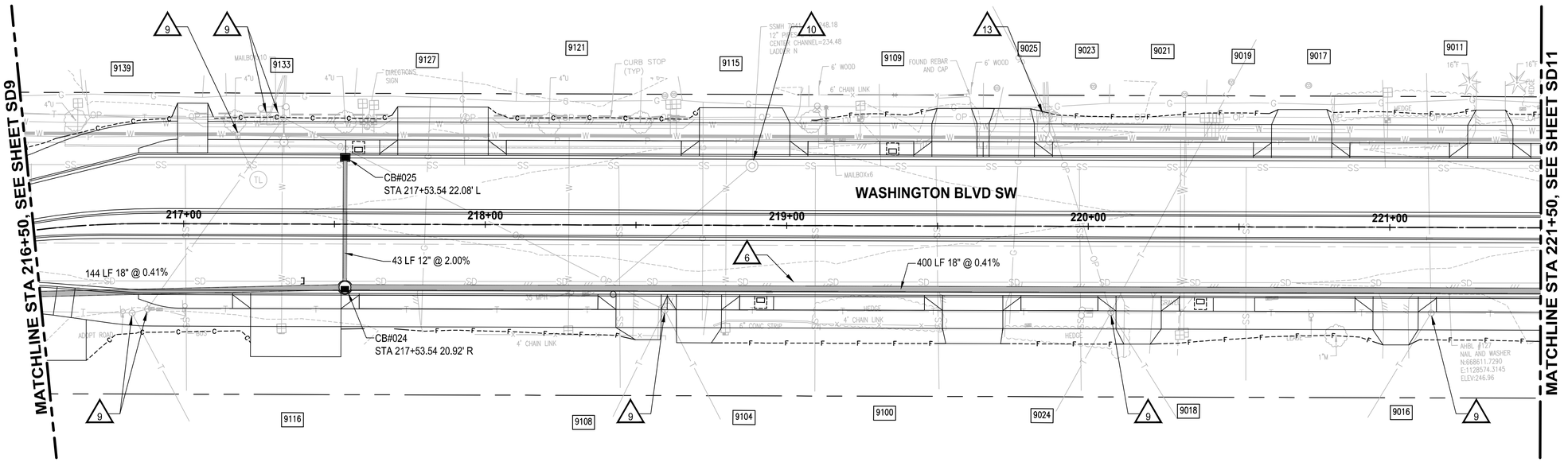

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 81 OF 169

SD9


LAYOUT: SD9 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:58:42 PM




**PLAN**

SCALE IN FEET

0 20 40

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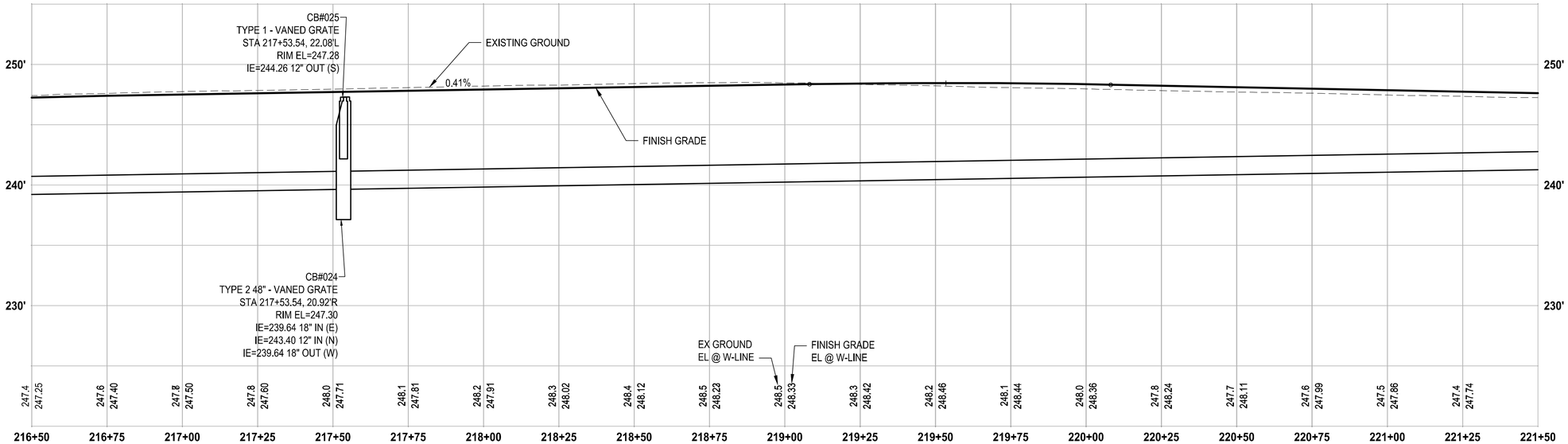


**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD06-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CRELLIN STATE OF WASHINGTON 22400 REGISTERED PROFESSIONAL ENGINEER
01/27/22

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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 82 OF 169

**SD10**

PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2
PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 12:59:12 PM
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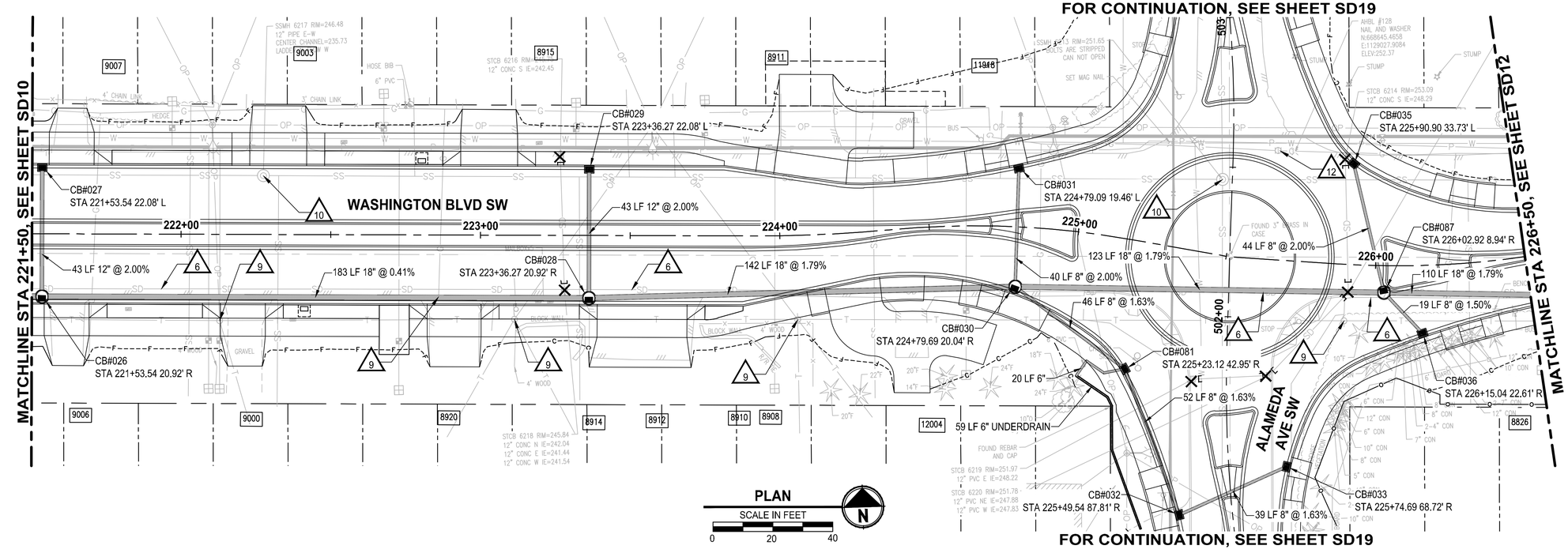
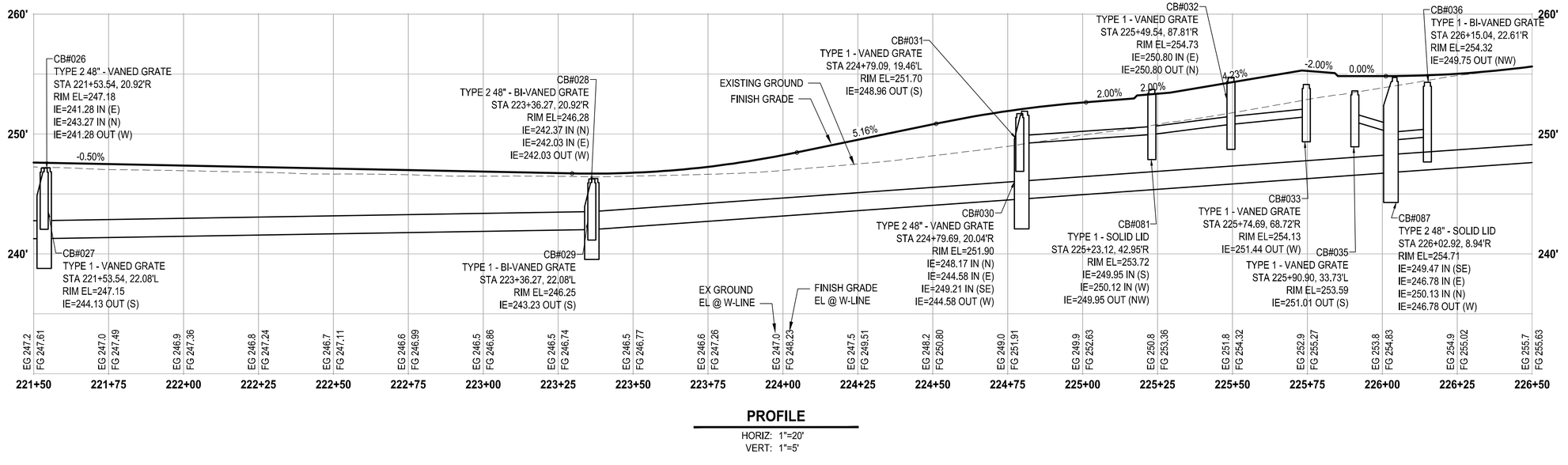



PLAN
SCALE IN FEET
0 20 40




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILO STATE OF WASHINGTON 55263 REGISTERED PROFESSIONAL ENGINEER 01/27/22

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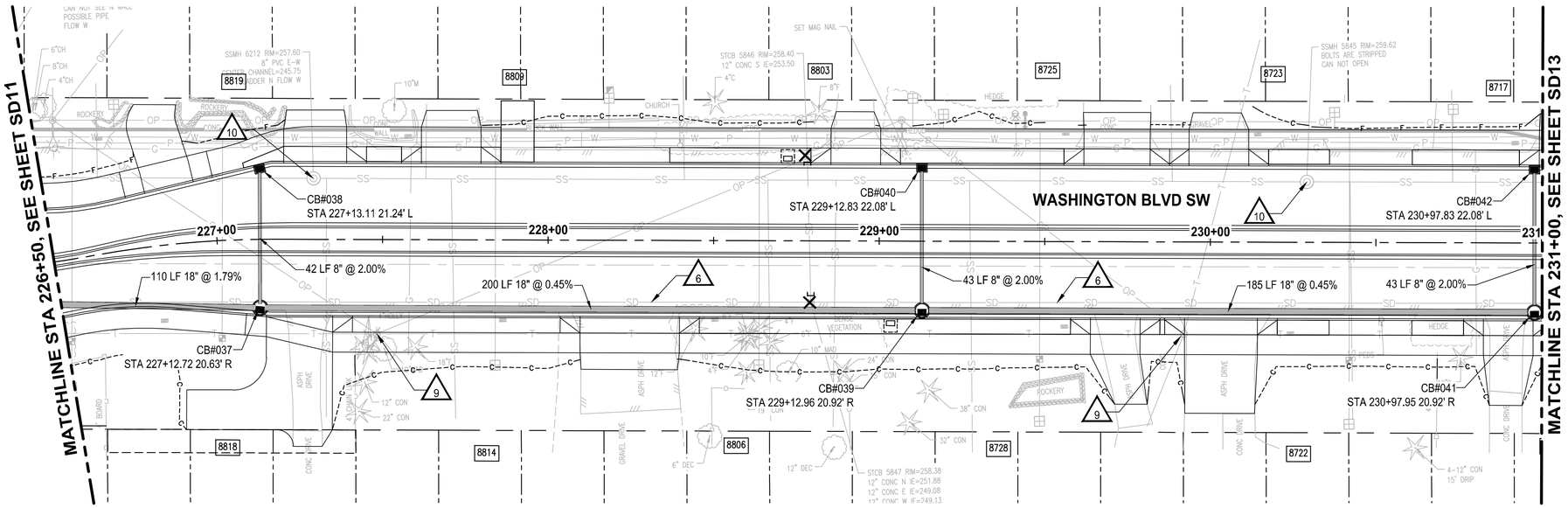
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

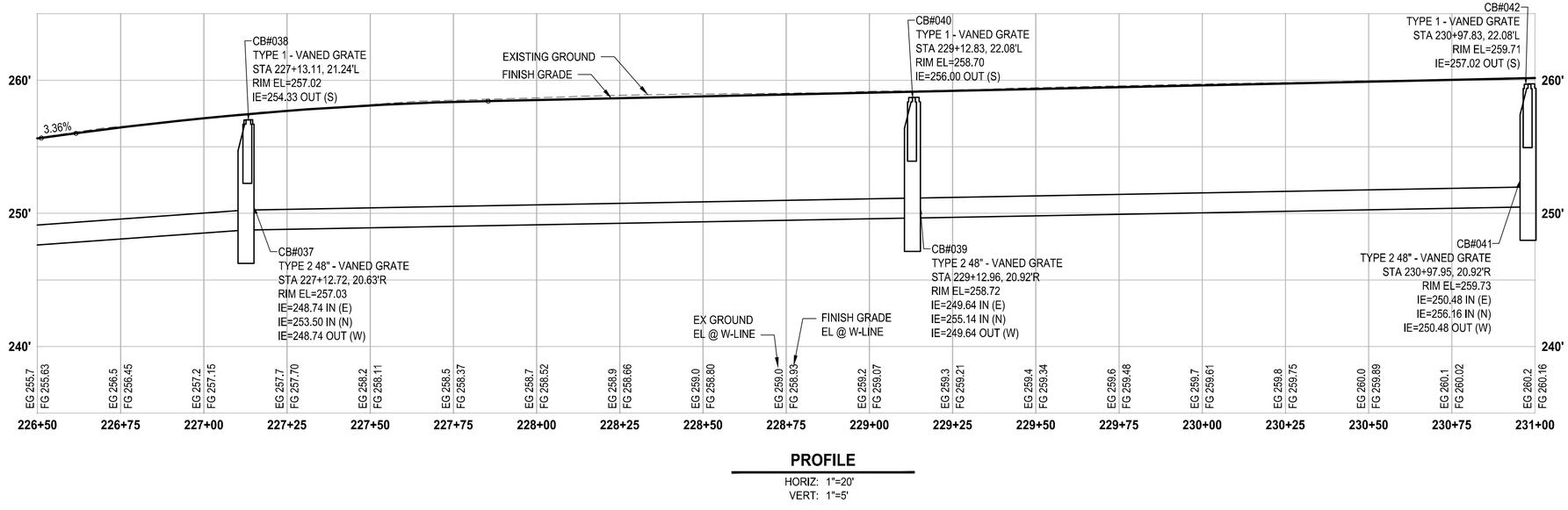
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 83 OF 169
SD11

LAYOUT: SD11 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:00:23 PM




**PLAN**
SCALE IN FEET
0 20 40




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILO 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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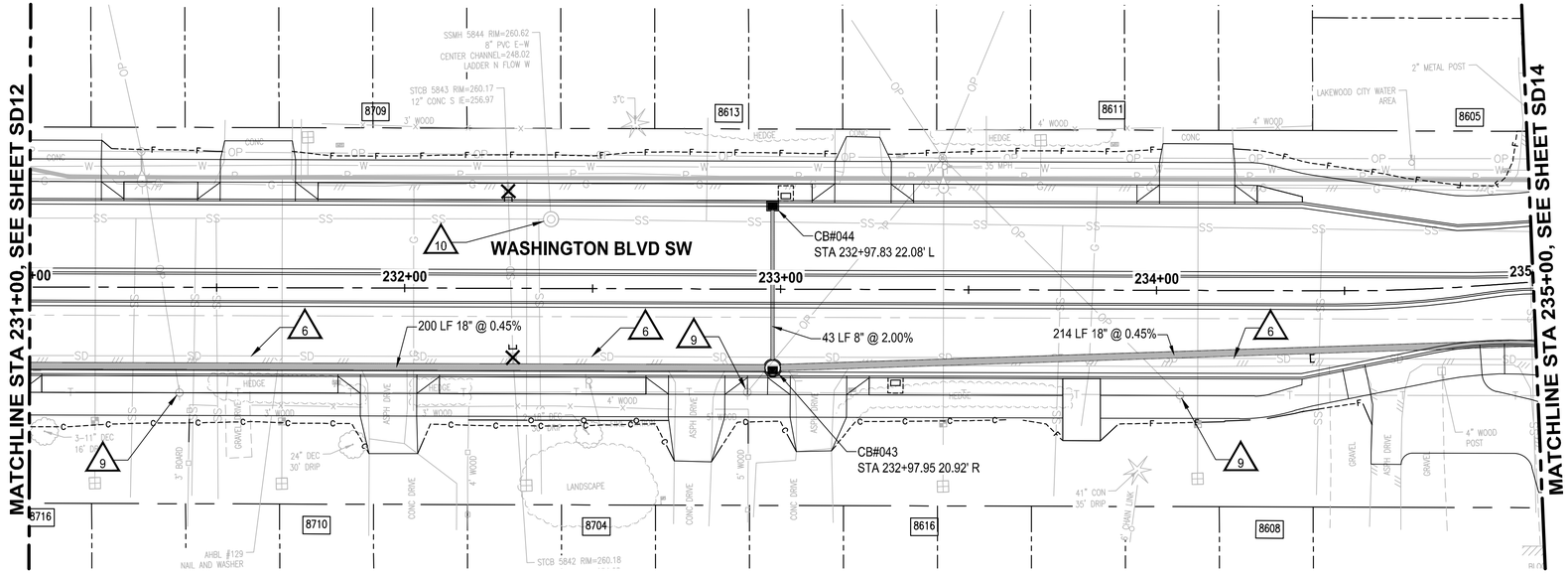
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO.
84 OF 169
**SD12**

LAYOUT: SD12 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:00:36 PM




## PLAN

SCALE IN FEET

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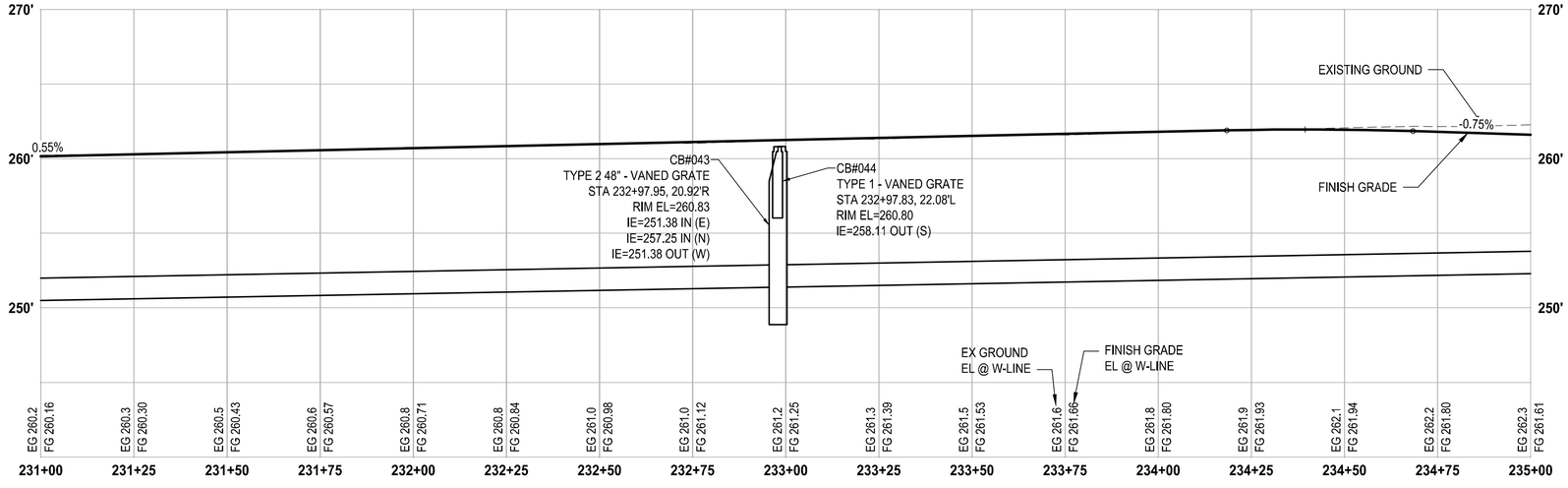


## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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TACOMA, WA 98402
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WWW.BCRADESIGN.COM

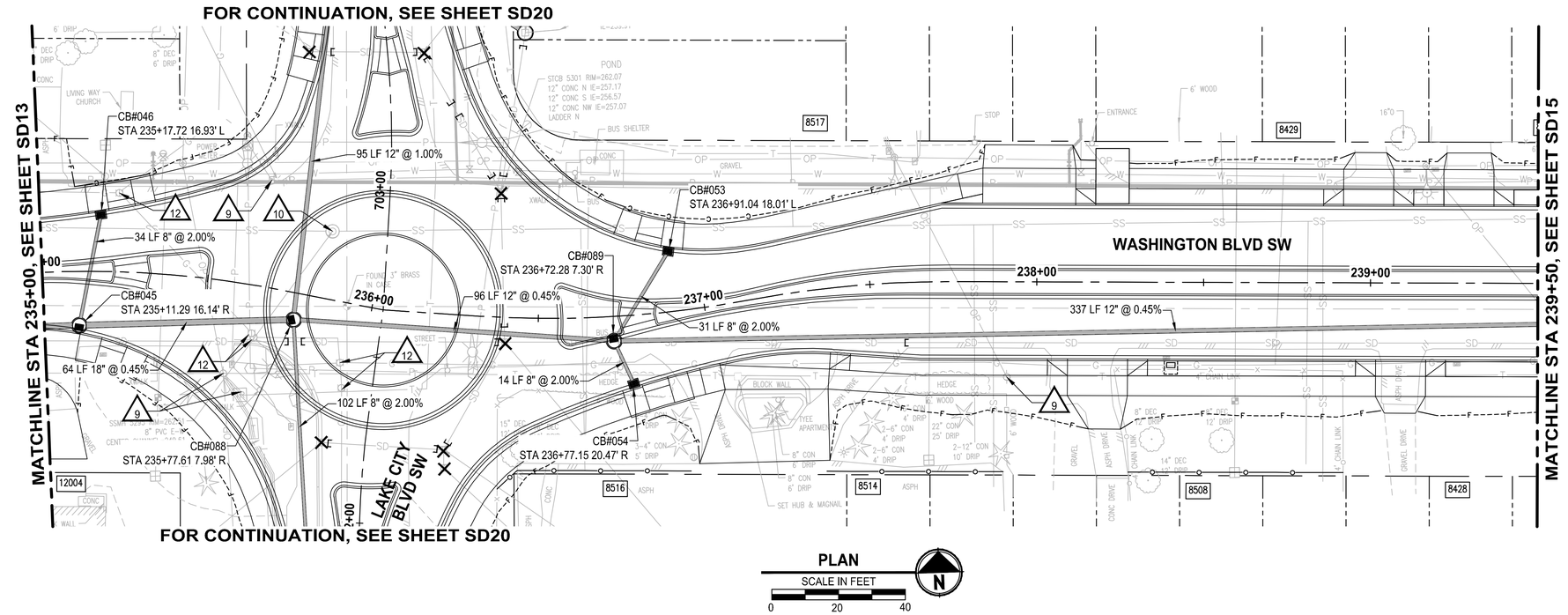
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 85 OF 169

SD13

LAYOUT: SD13 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:00:51 PM




**PLAN**
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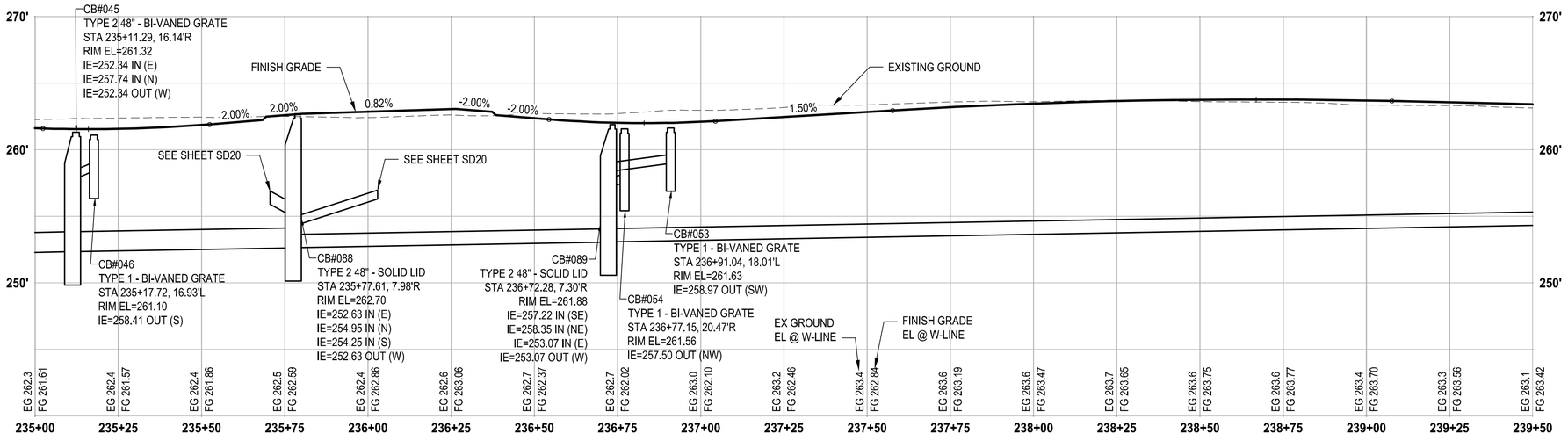
0 20 40




**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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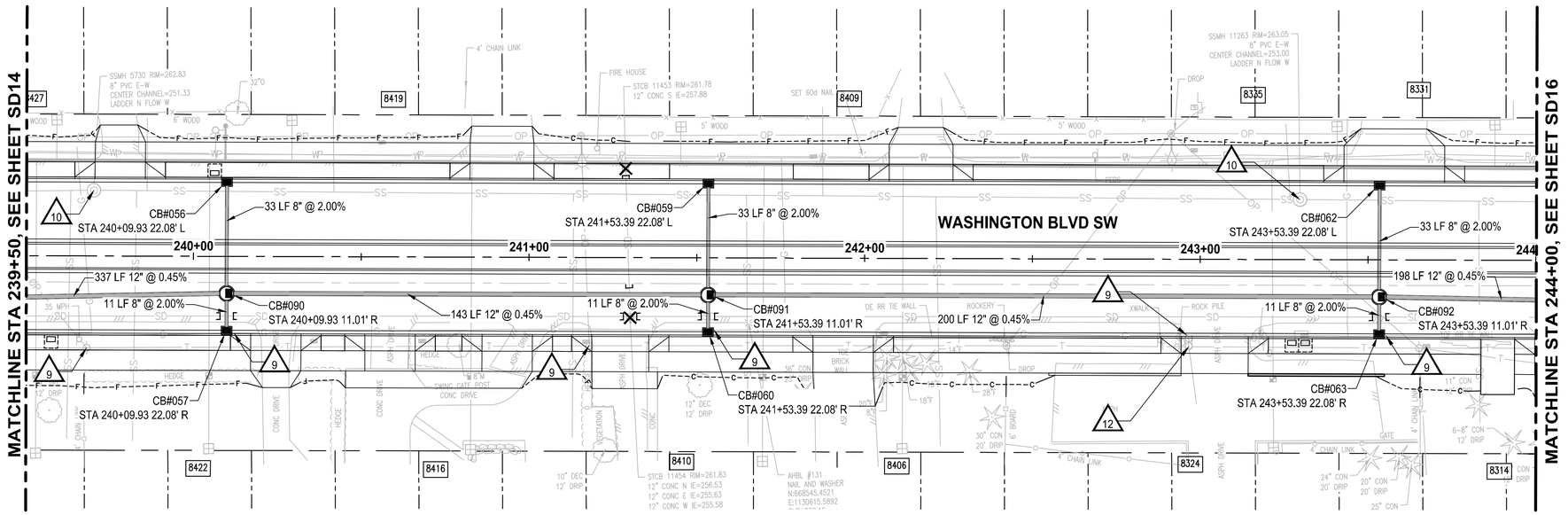
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 86 OF 169
**SD14**

LAYOUT: SD14 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:01:09 PM




PLAN

SCALE IN FEET

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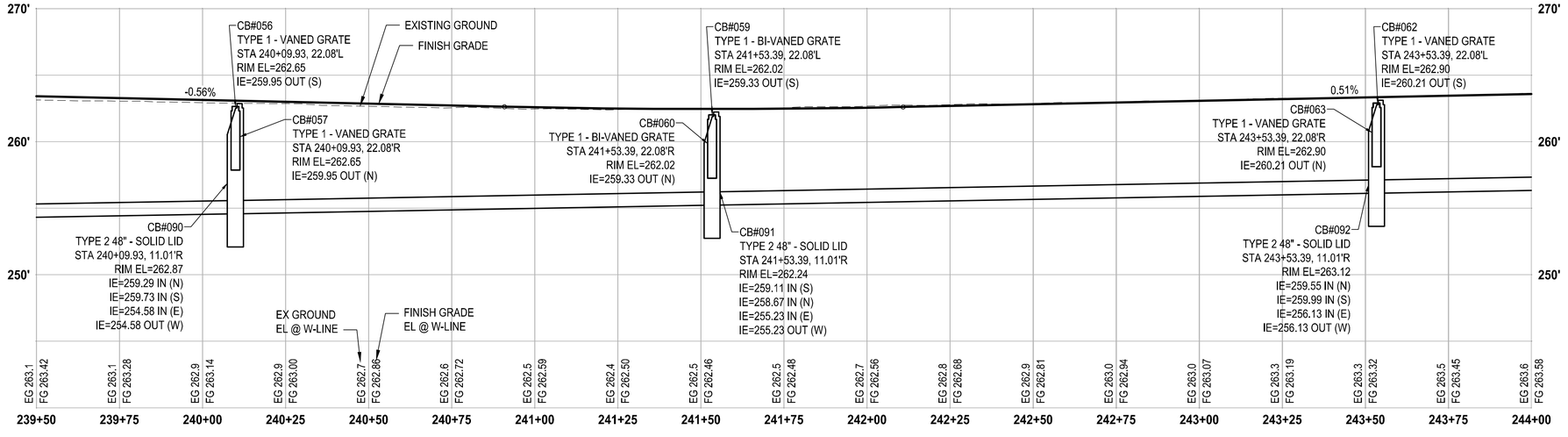


## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD11-15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

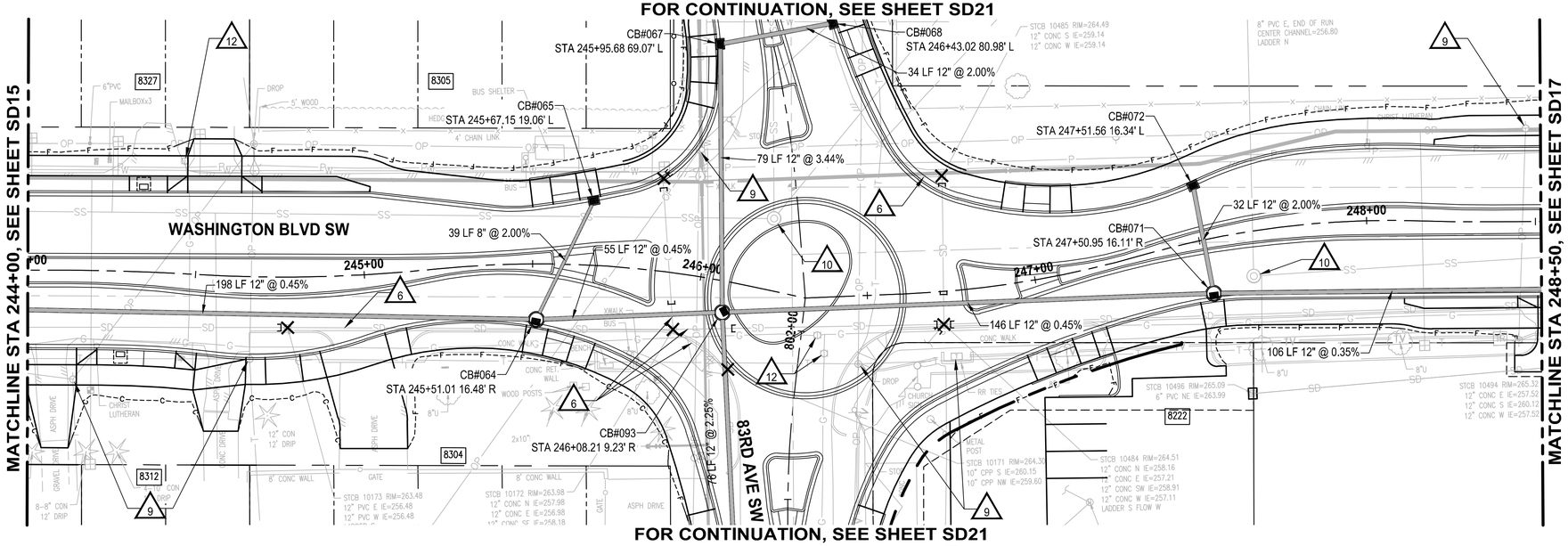
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 87 OF 169

**SD15**

LAYOUT: SD15 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:01:28 PM

FOR CONTINUATION, SEE SHEET SD21




FOR CONTINUATION, SEE SHEET SD21

**PLAN**
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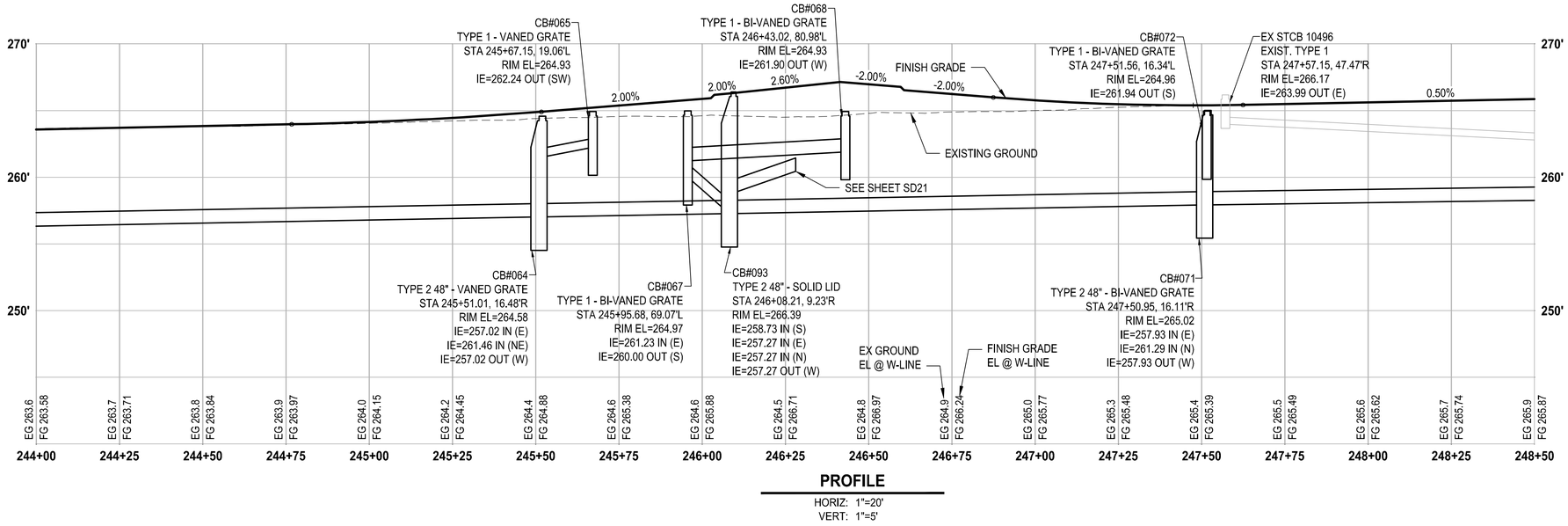


**PROFILE**
HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD16-18
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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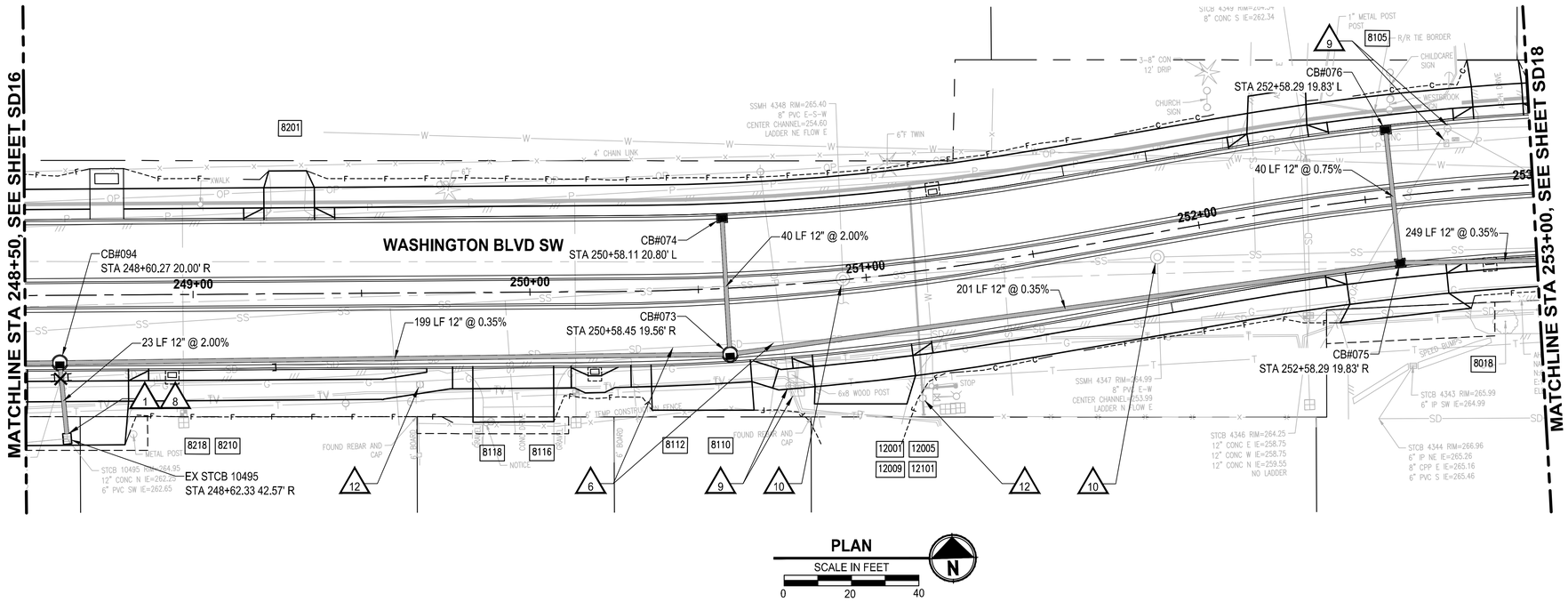
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 88 OF 169
**SD16**

LAYOUT: SD16 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:02:30 PM




PLAN

SCALE IN FEET

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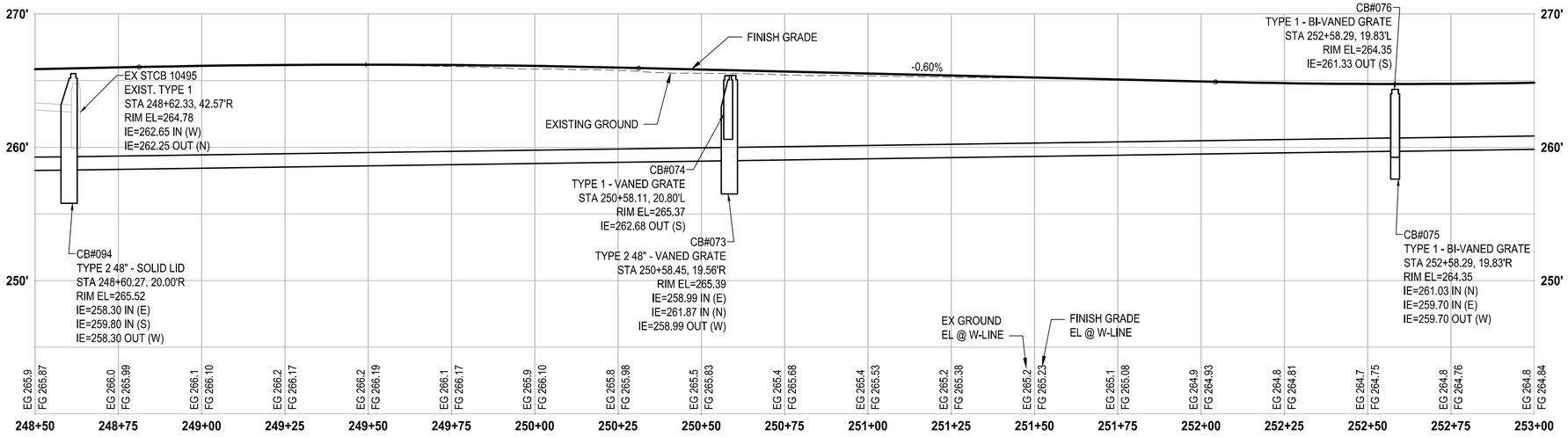


PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD16-18
JOB No. 214-3047-013
DATE JANUARY 2022

ANDREW CHRISTOPHER CARLILE — STATE OF WASHINGTON — 55263 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22


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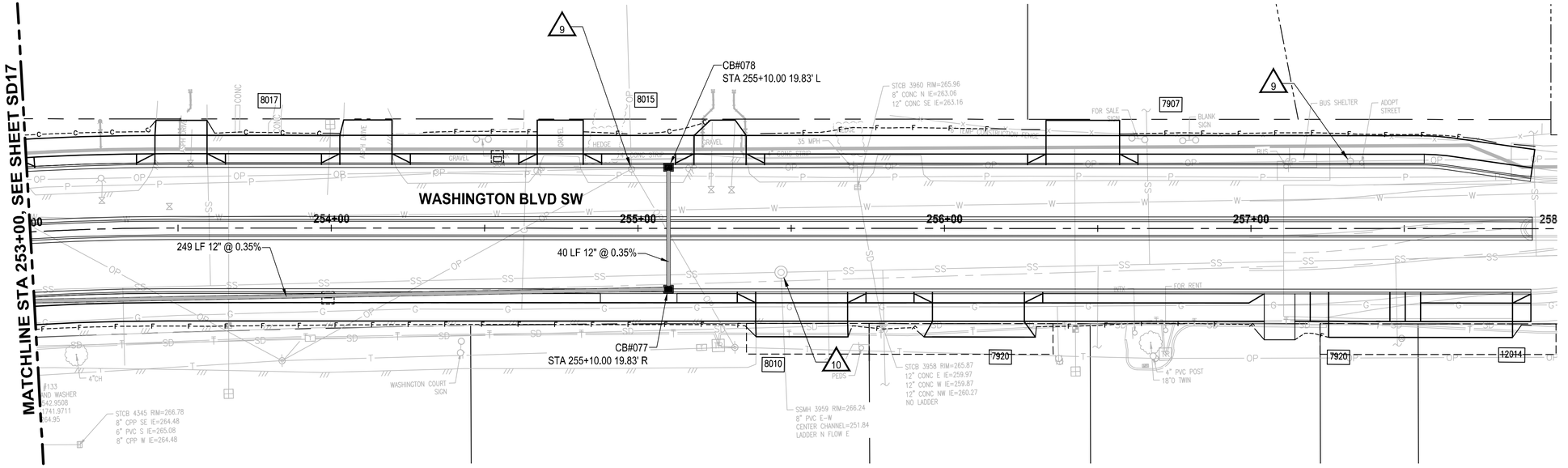
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 89 OF 169

SD17


LAYOUT: SD17 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:02:49 PM




**PLAN**

SCALE IN FEET

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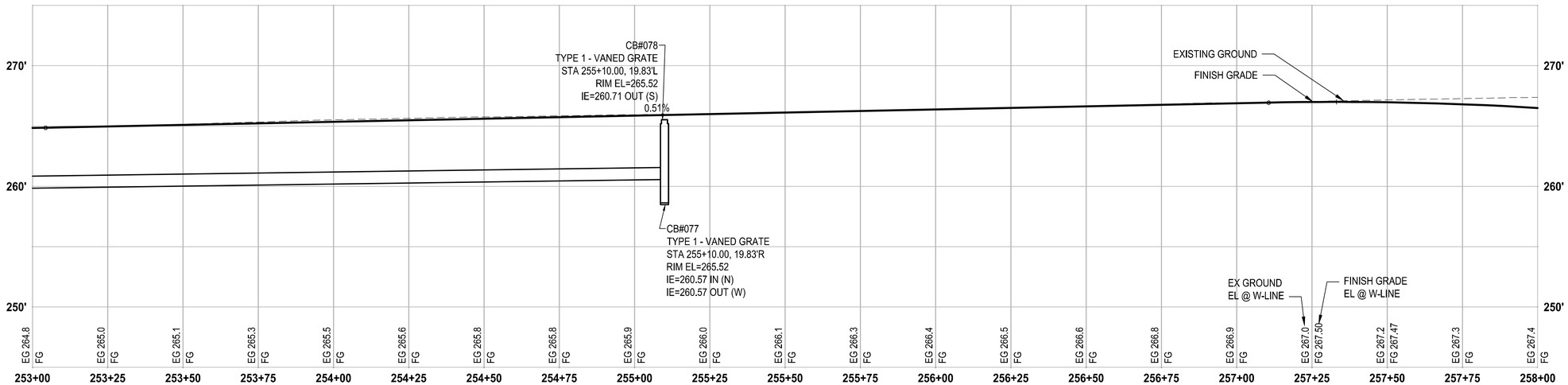


**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL 2/DT5
- INFILTRATION SYSTEM PER SPECIFICATIONS

| ▷ | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD16-18
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ★1996★

ANDREW CHRISTOPHER CARLILE — STATE OF WASHINGTON — 55263 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22


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2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

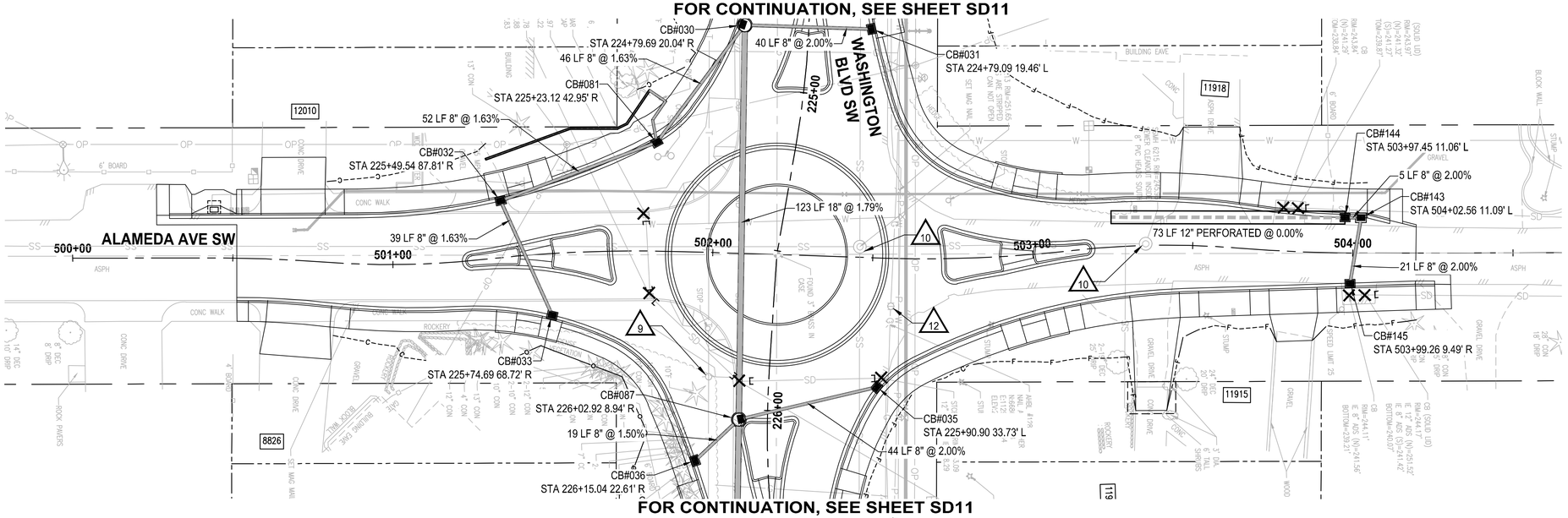
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 90 OF 169

**SD18**


LAYOUT: SD18 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:03:07 PM

FOR CONTINUATION, SEE SHEET SD11

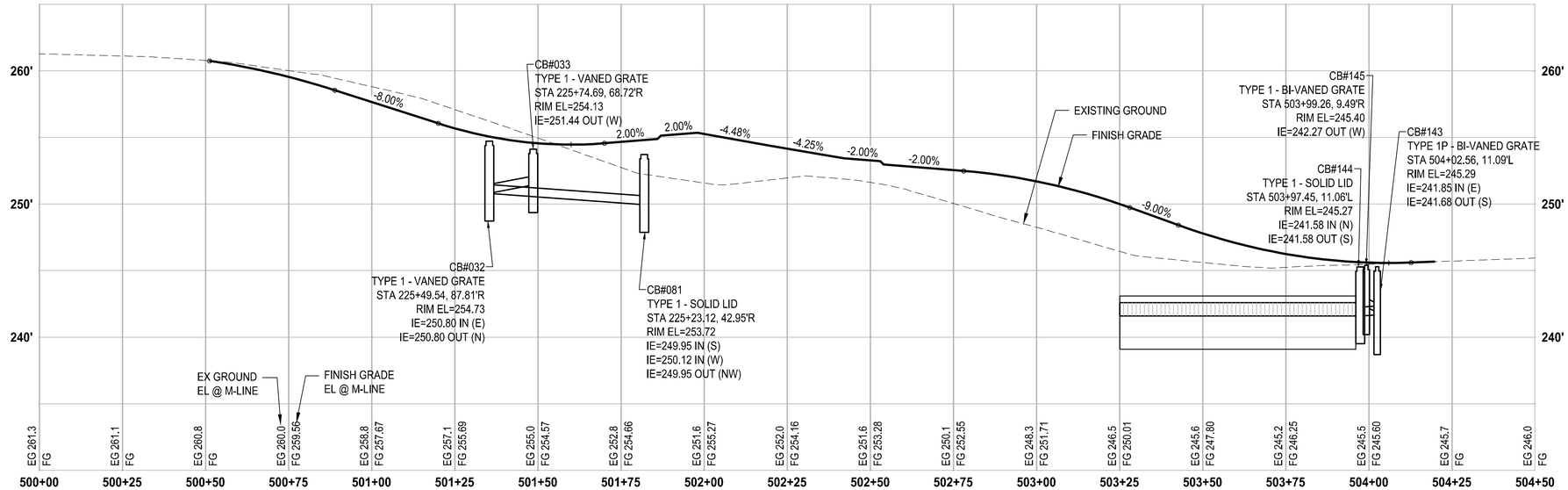



FOR CONTINUATION, SEE SHEET SD11

PLAN

SCALE IN FEET

0 20 40




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL 2/DT5
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED ____

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD19-21
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE STATE OF WASHINGTON 24965 REGISTERED PROFESSIONAL ENGINEER 01/27/22

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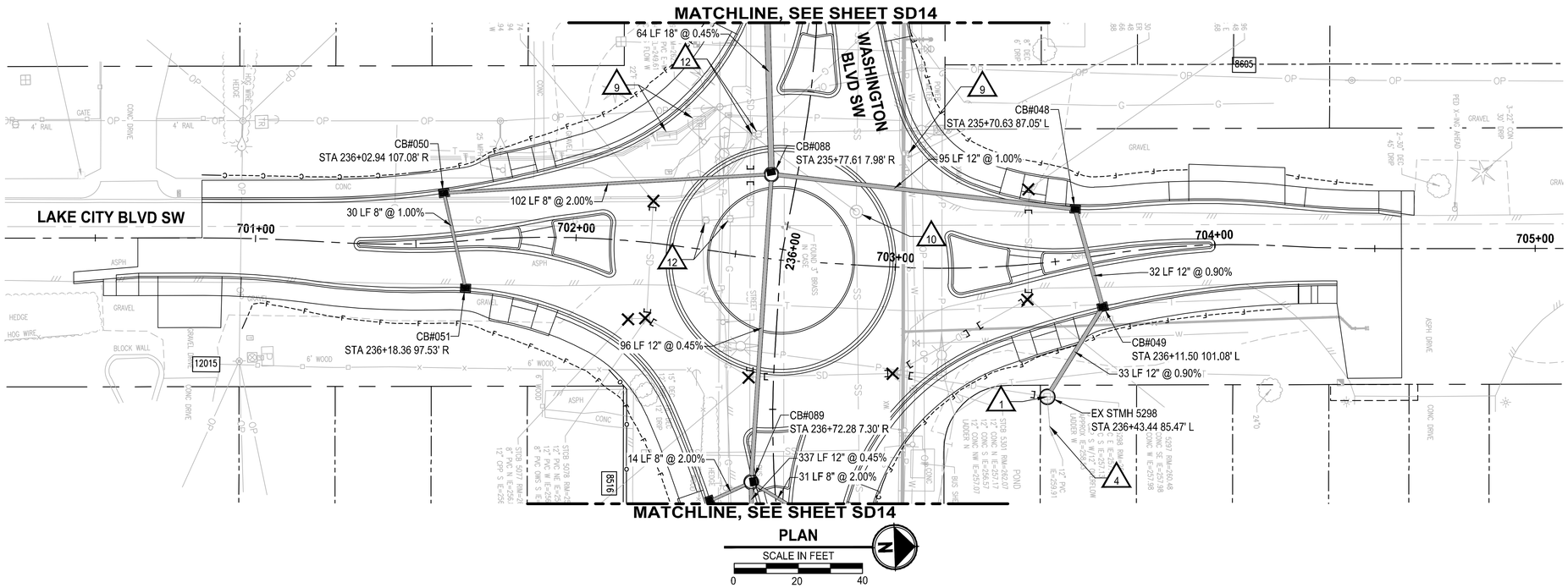
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

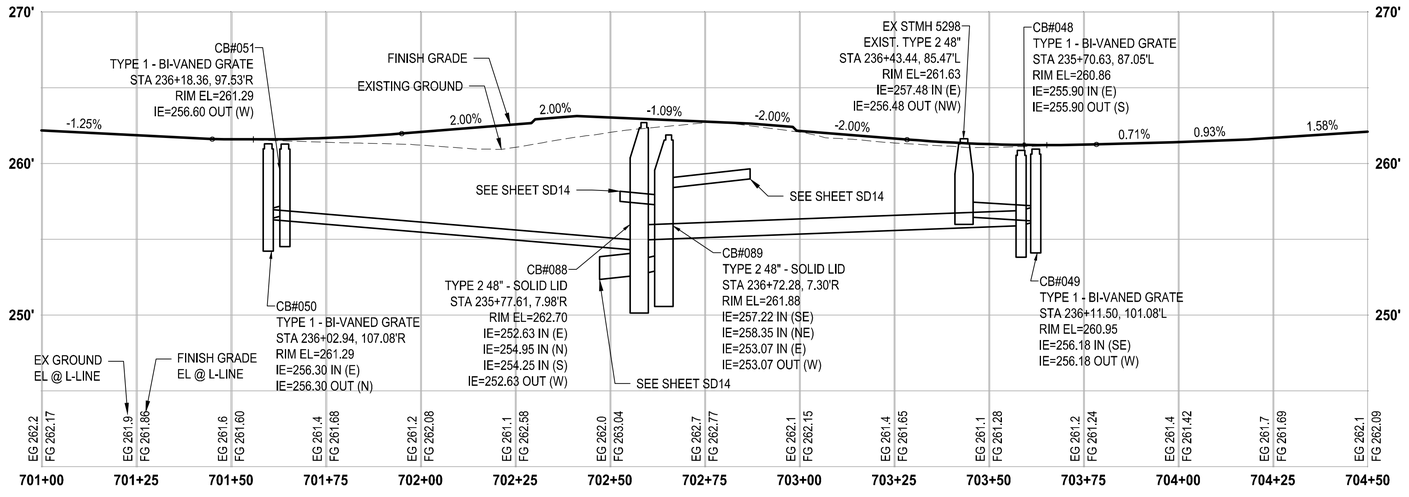
# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 91 OF 169

SD19

LAYOUT: SD19 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:04:08 PM




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD19-21
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

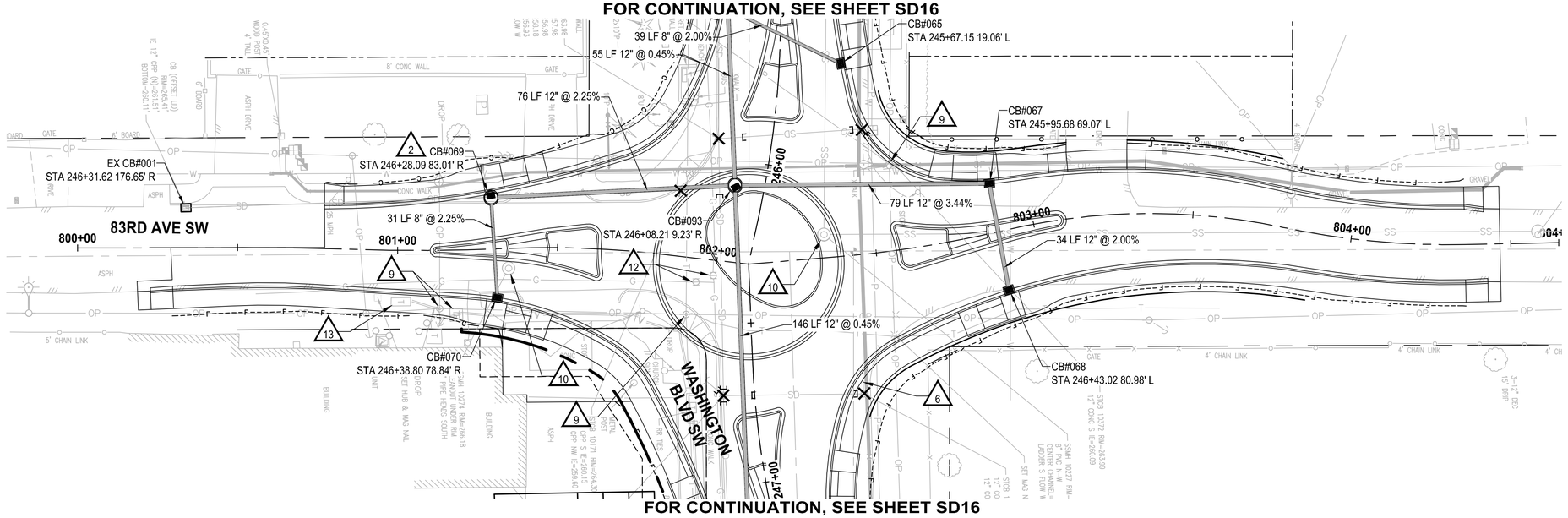
# STORM DRAIN PLAN AND PROFILE

DRAWING NO.
92 OF 169

**SD20**

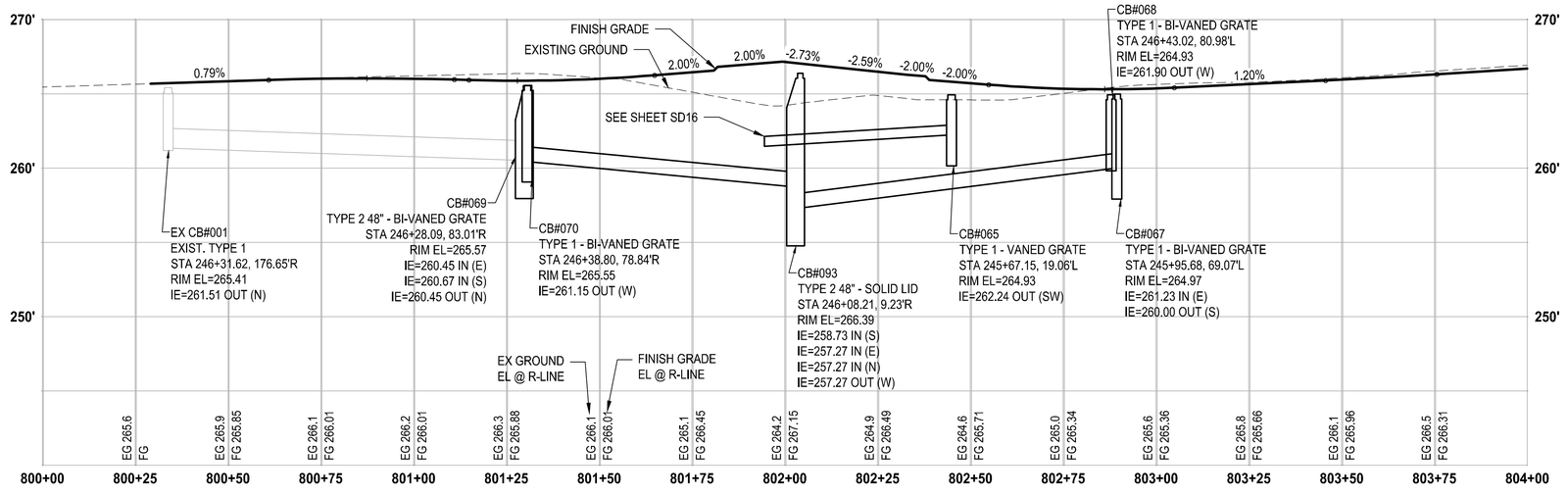

LAYOUT: SD20 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 - JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:04:25 PM

FOR CONTINUATION, SEE SHEET SD16




FOR CONTINUATION, SEE SHEET SD16

PLAN
SCALE IN FEET
0 20 40




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD19-21
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CARLILE 55263 STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 01/27/22

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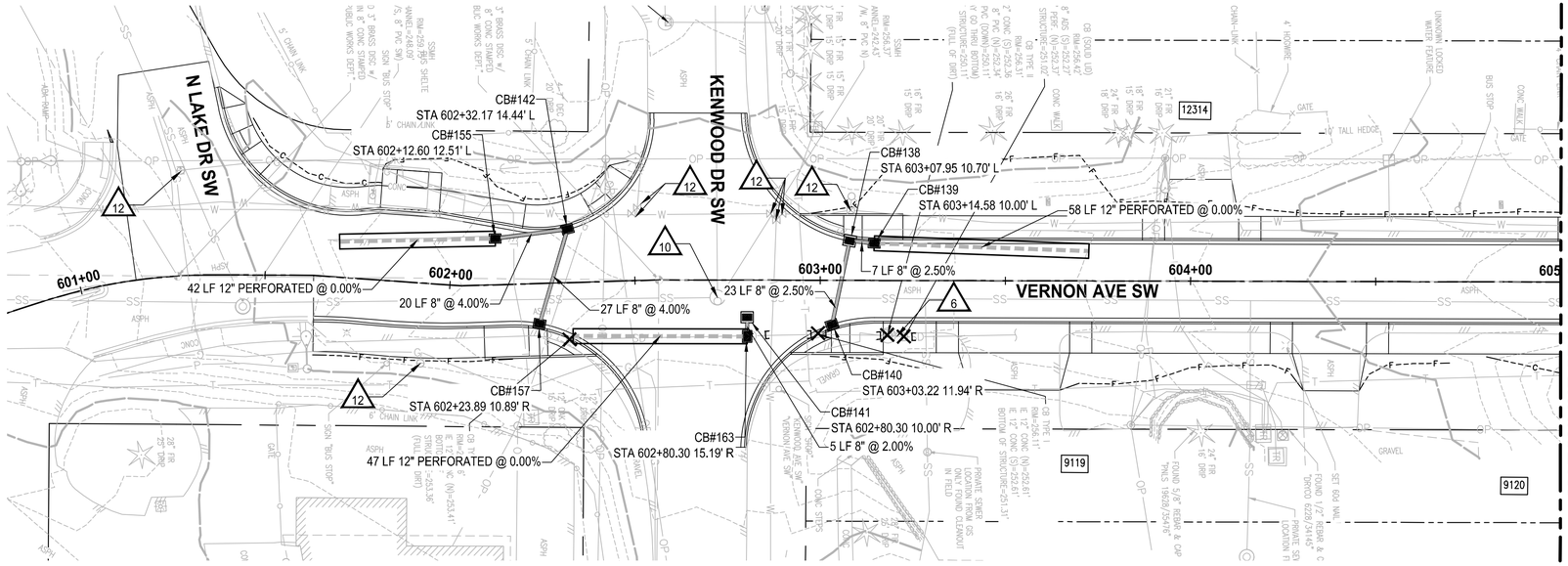
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO.
93 OF 169

SD21

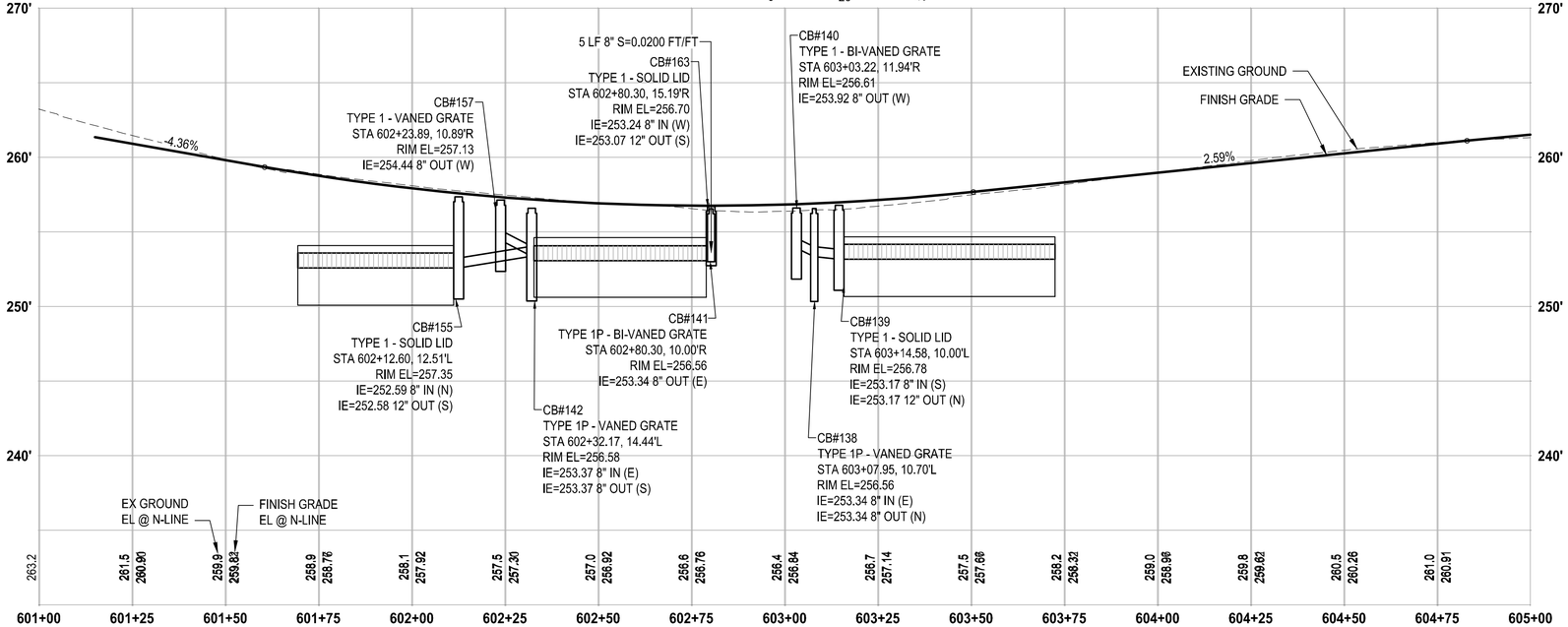
LAYOUT: SD21 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:04:44 PM




**PLAN**

SCALE IN FEET

0 20 40




**PROFILE**

HORIZ: 1"=20'
VERT: 1"=5'

## STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   - A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   - B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   - C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   - D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   - E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   - F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   - G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   - H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2 / DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
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| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD22-25
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

ANDREW CHRISTOPHER GRILLO — STATE OF WASHINGTON — 55063 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22

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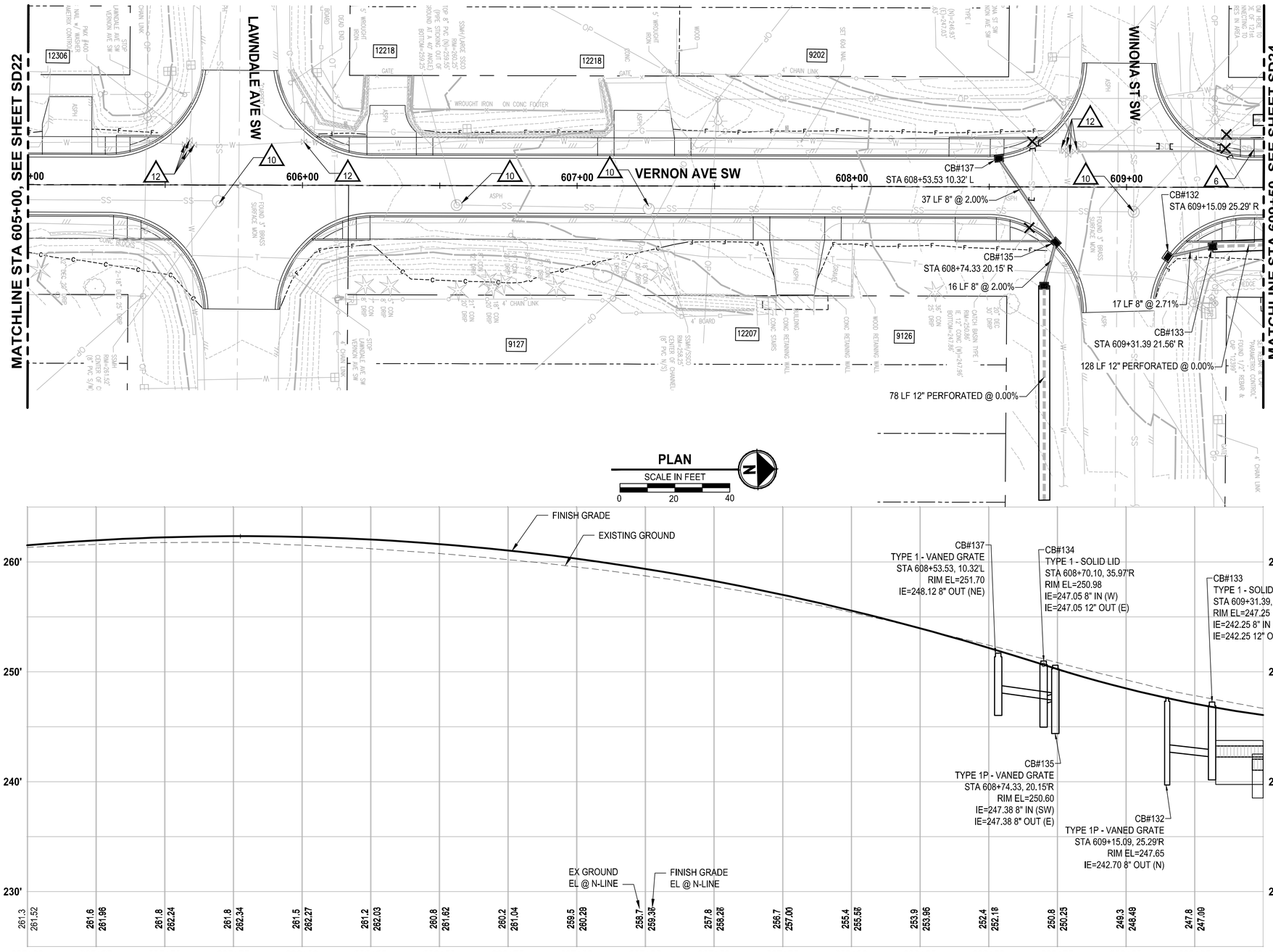
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 94 OF 169

**SD22**

LAYOUT: SD22 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:05:56 PM




## PLAN

SCALE IN FEET
0 20 40




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-SD22-25
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

ANDREW CHRISTOPHER GIRELLO — STATE OF WASHINGTON — 55263 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22


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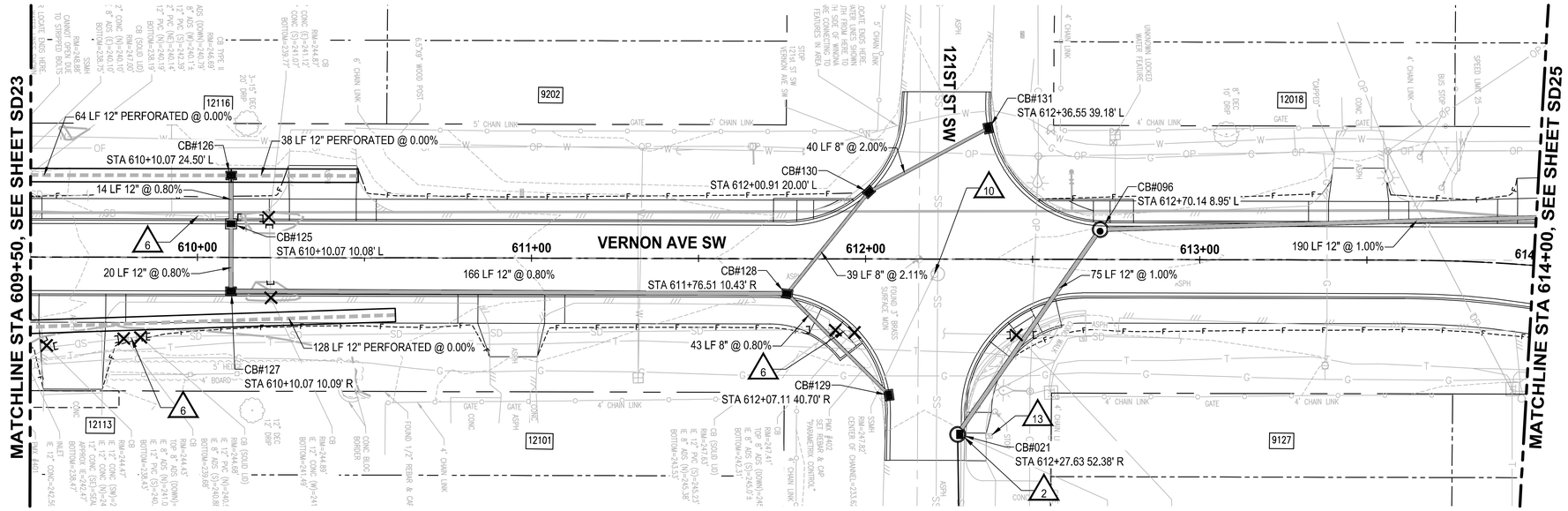
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 95 OF 169
**SD23**

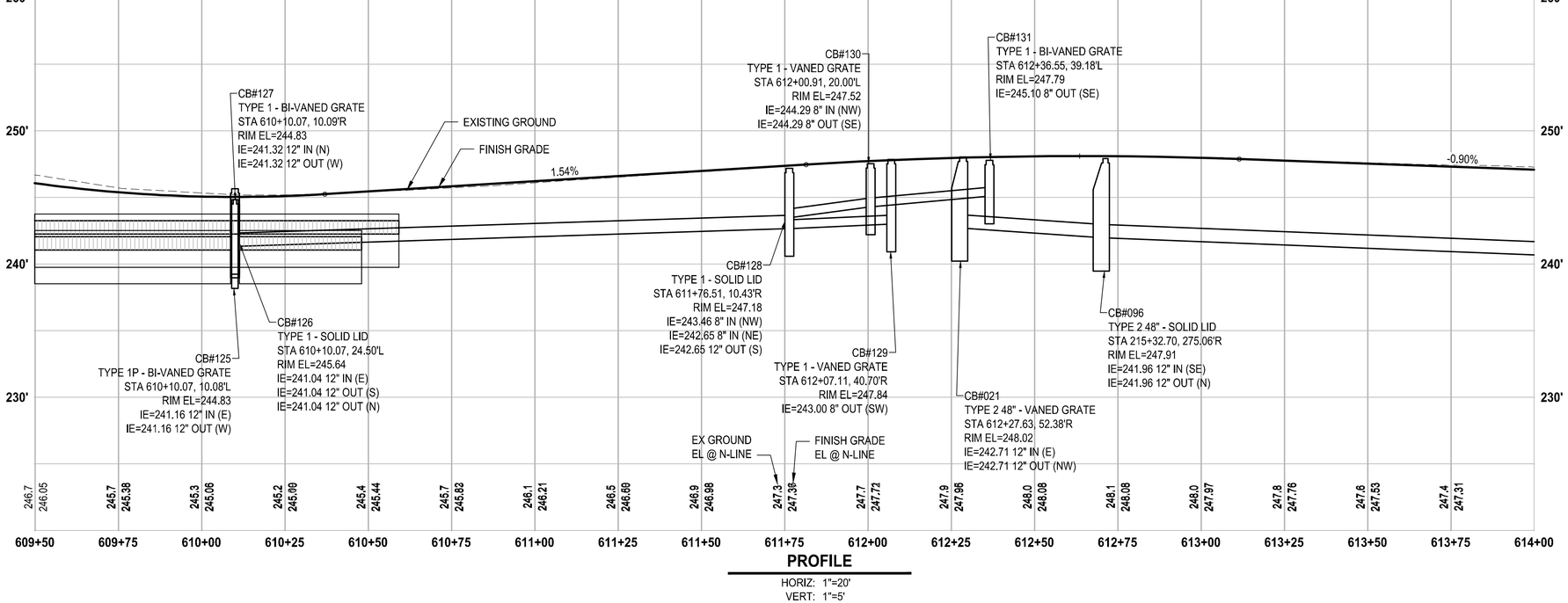

LAYOUT: SD23 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:06:16 PM




## PLAN

SCALE IN FEET

0 20 40




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL 2/DT5
- INFILTRATION SYSTEM PER SPECIFICATIONS

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD22-25
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WASHINGTON 1996

ANDREW CHRISTOPHER CHILLID STATE OF WASHINGTON 55063 REGISTERED PROFESSIONAL ENGINEER 01/27/22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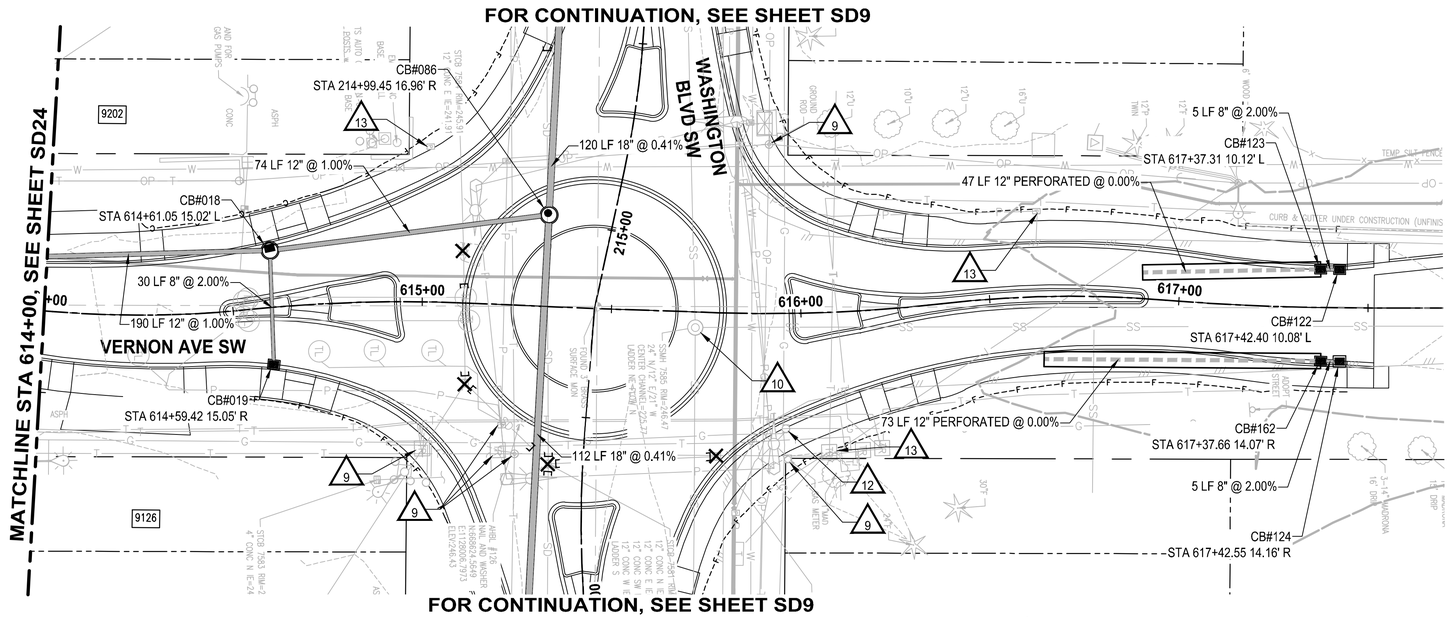
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 96 OF 169

SD24

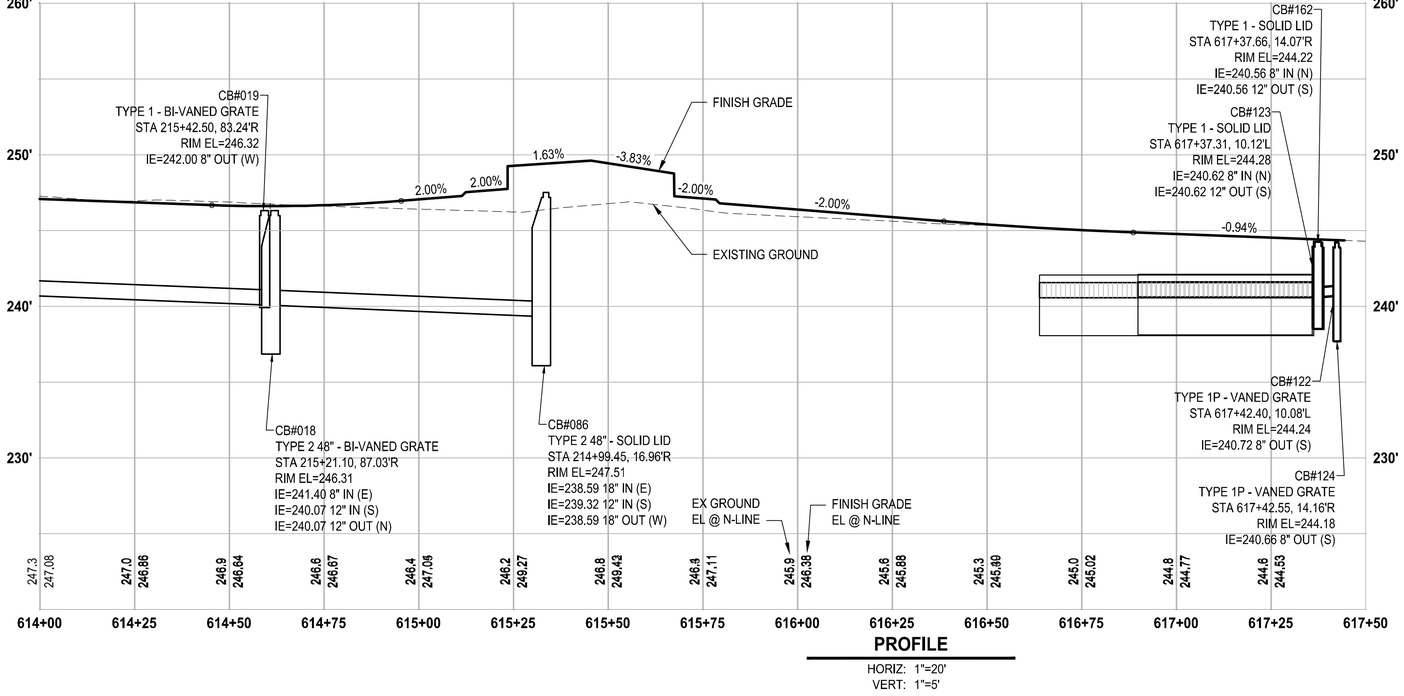

LAYOUT: SD24 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:06:33 PM




## PLAN

SCALE IN FEET

0 20 40




## PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

## ⚠STORM DRAINAGE AND UTILITY NOTES

1. CONNECT TO EXISTING DRAINAGE STRUCTURE
2. CONNECT TO EXISTING STORM PIPE
3. PRESERVE AND PROTECT EXISTING CATCH BASIN
4. PRESERVE AND PROTECT EXISTING STORM DRAIN PIPE
5. WATER QUALITY TREATMENT UNIT PER SPECIFICATIONS
6. REMOVE EXISTING STORM PIPE
7. FLOW SPLITTER MANHOLE PER SPECIFICATIONS
8. ADJUST EXISTING CATCH BASIN TO FINISHED GRADE
9. UTILITY TO BE RELOCATED BY OTHERS
10. SANITARY SEWER MANHOLE, SEE SPECIFICATIONS FOR WORK REQUIRED
11. NOT USED
12. ADJUST EXISTING VALVE CASING TO FINISHED GRADE
13. ADJUST EXISTING JUNCTION BOX TO FINISHED GRADE
14. REMOVE EXISTING 9FT BY 15FT HYDRODYNAMIC SEPARATOR

## GENERAL NOTES

1. REMOVE EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
2. PLUG AND ABANDON EXISTING STORM DRAIN PIPES IN PLACE WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED
3. PRESERVE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED
4. SEE PROFILE CALLOUTS FOR STRUCTURE AND GRATE/ LID TYPE
   A. CATCH BASIN TYPE 1 PER WSDOT STD PLAN B-5.20-03
   B. CATCH BASIN TYPE 1P PER WSDOT STD PLAN B-5.60-02
   C. CATCH BASIN TYPE 2 PER WSDOT STD PLAN B-10.20-02
   D. MANHOLE TYPE 1 PER WSDOT STD PLAN B-15.20-01
   E. SOLID LOCKING LID PER WSDOT STD PLAN B-30.20-04
   F. VANED GRATES PER WSDOT STD PLAN B-30.30-03
   G. BI-VANED GRATES PER WSDOT STD PLAN B-30.40-03
   H. CONCRETE INLETS PER WSDOT STD PLAN B-25.60-02
5. ALL TYPE 1P CATCH BASINS SHALL HAVE A DOWNTURNED ELBOW PER LAKEWOOD STD PLAN SW-03
6. CIRCULAR RING AND COVER PER WSDOT STD PLAN B-30.70-04
7. SEE WS SHEETS FOR WATER SYSTEM DESIGN

## LEGEND

- REMOVE EXISTING DRAINAGE STRUCTURE
- PLUG EXISTING PIPE
- CATCH BASIN TYPE 1
- CATCH BASIN TYPE 1P WITH DOWNTURNED ELBOW
- CATCH BASIN TYPE 2
- MANHOLE TYPE 1
- STORM SEWER PIPE, SCHEDULE A UNLESS OTHERWISE NOTED
- INFILTRATION TRENCH PER DETAIL (2/DT5)
- INFILTRATION SYSTEM PER SPECIFICATIONS

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED S. PODGORSKI
DRAWN R. BEALS
CHECKED A. EPSTEIN
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-SD22-25
JOB No. 214-3047-013
DATE JANUARY 2022

ANDREW CHRISTOPHER CALLAO — STATE OF WASHINGTON — 55263 — REGISTERED PROFESSIONAL ENGINEER — 01/27/22

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P 253.627.4367
WWW.BCRADESIGN.COM

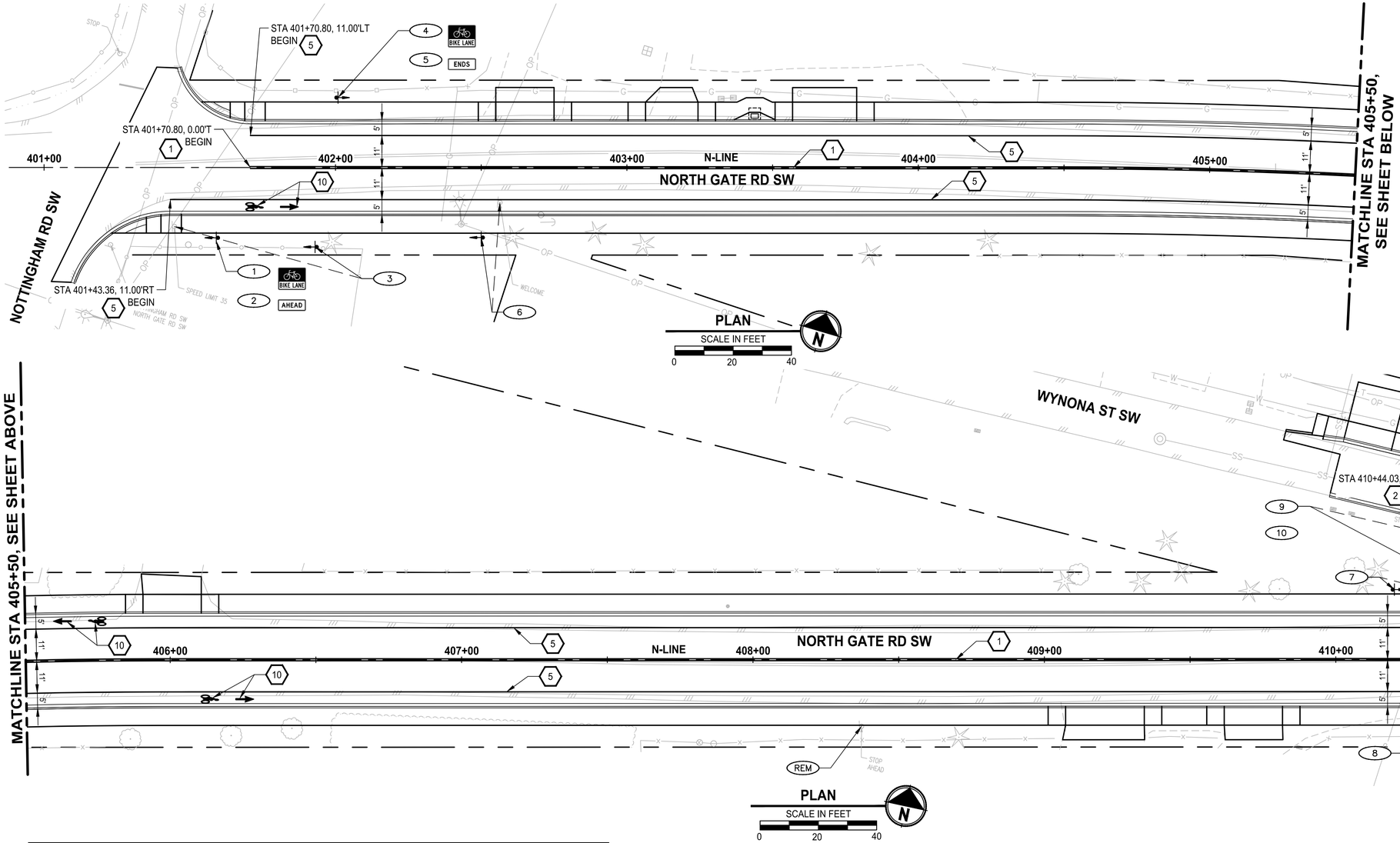
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# STORM DRAIN PLAN AND PROFILE

DRAWING NO. 97 OF 169

**SD25**

LAYOUT: SD25 STORM DRAIN PLAN AND PROFILE PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:06:51 PM




## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 1 | N-LINE | 401+59 24.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 2 | N-LINE | 401+59 24.0' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 1, ON SAME POST |
| 3 | N-LINE | 401+93 27.0' RT | REPLACE | 24" X 30" | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 4 | N-LINE | 402+01 24.0' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 5 | N-LINE | 402+01 24.0' LT | R3-17bP | 24" X 8" | "END" | INSTALL NEW SIGN ON NEW POST |
| 6 | N-LINE | 402+50 24.0' RT | REPLACE | - | "WELCOME TO CITY OF LAKEWOOD" | REPLACE EXISTING SIGN ON NEW POST |
| 7 | N-LINE | 410+20 24.0' LT | REPLACE | 24" X 30" | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 8 | N-LINE | 410+31 24.0' RT | REPLACE | - | "LAKE CITY COMMUNITY CHURCH", STRAIGHT ARROW | REPLACE EXISTING SIGN ON NEW POST |
| 9 | N-LINE | 410+41 26.0' LT | REPLACE | 30" X 30" | "STOP" | REPLACE EXISTING SIGN ON NEW POST |
| 10 | N-LINE | 410+41 26.0' LT | REPLACE | - | "WINONA ST SW" | REPLACE EXISTING SIGN ON NEW POST |

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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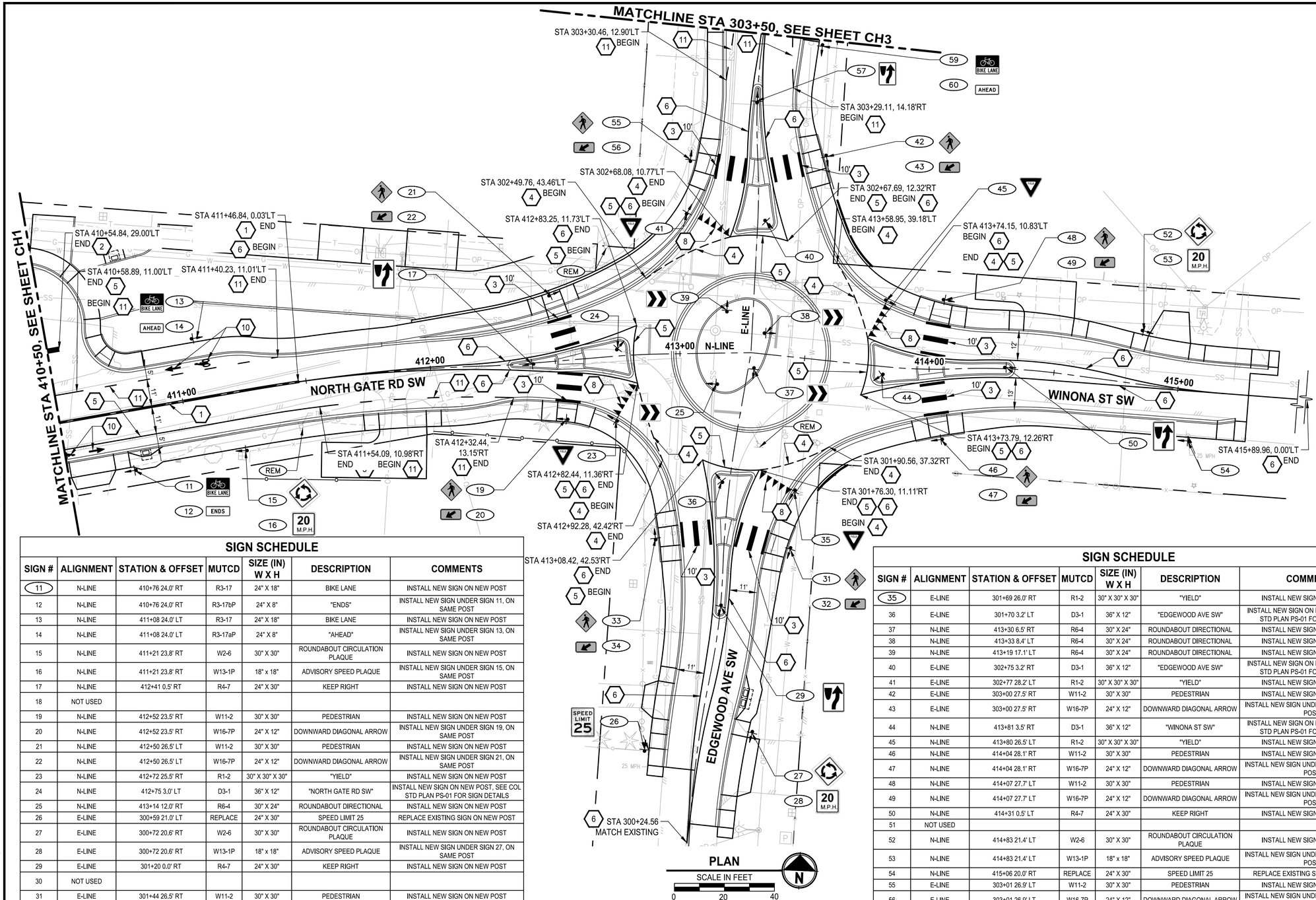
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN NORTH GATE RD SW

DRAWING NO. 98 OF 169
**CH1**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taykokat DATE: Wednesday, January 26, 2022 1:17:44 PM LAYOUT: CH1




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 11 | N-LINE | 410+76 24.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 12 | N-LINE | 410+76 24.0' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 11, ON SAME POST |
| 13 | N-LINE | 411+08 24.0' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 14 | N-LINE | 411+08 24.0' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 13, ON SAME POST |
| 15 | N-LINE | 411+21 23.8' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 16 | N-LINE | 411+21 23.8' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 15, ON SAME POST |
| 17 | N-LINE | 412+41 0.5' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 18 | NOT USED | | | | | |
| 19 | N-LINE | 412+52 23.5' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 20 | N-LINE | 412+52 23.5' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 19, ON SAME POST |
| 21 | N-LINE | 412+50 26.5' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 22 | N-LINE | 412+50 26.5' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 21, ON SAME POST |
| 23 | N-LINE | 412+72 25.5' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 24 | N-LINE | 412+75 3.0' LT | D3-1 | 36" X 12" | "NORTH GATE RD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 25 | N-LINE | 413+14 12.0' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 26 | E-LINE | 300+59 21.0' LT | REPLACE | 24" X 30" | SPEED LIMIT 25 | REPLACE EXISTING SIGN ON NEW POST |
| 27 | E-LINE | 300+72 20.6' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 28 | E-LINE | 300+72 20.6' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 27, ON SAME POST |
| 29 | E-LINE | 301+20 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 30 | NOT USED | | | | | |
| 31 | E-LINE | 301+44 26.5' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 32 | E-LINE | 301+44 26.5' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 31, ON SAME POST |
| 33 | E-LINE | 301+46 27.5' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 34 | E-LINE | 301+46 27.5' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 33, ON SAME POST |

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 35 | E-LINE | 301+69 26.0' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 36 | E-LINE | 301+70 3.2' LT | D3-1 | 36" X 12" | "EDGEWOOD AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 37 | N-LINE | 413+30 6.5' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 38 | N-LINE | 413+33 8.4' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 39 | N-LINE | 413+19 17.1' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 40 | E-LINE | 302+75 3.2' RT | D3-1 | 36" X 12" | "EDGEWOOD AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 41 | E-LINE | 302+77 28.2' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 42 | E-LINE | 303+00 27.5' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 43 | E-LINE | 303+00 27.5' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 42, ON SAME POST |
| 44 | N-LINE | 413+81 3.5' RT | D3-1 | 36" X 12" | "WINONA ST SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 45 | N-LINE | 413+80 26.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 46 | N-LINE | 414+04 28.1' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 47 | N-LINE | 414+04 28.1' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 46, ON SAME POST |
| 48 | N-LINE | 414+07 27.7' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 49 | N-LINE | 414+07 27.7' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 48, ON SAME POST |
| 50 | N-LINE | 414+31 0.5' LT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 51 | NOT USED | | | | | |
| 52 | N-LINE | 414+83 21.4' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 53 | N-LINE | 414+83 21.4' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 52, ON SAME POST |
| 54 | N-LINE | 415+06 20.0' RT | REPLACE | 24" X 30" | SPEED LIMIT 25 | REPLACE EXISTING SIGN ON NEW POST |
| 55 | E-LINE | 303+01 26.9' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 56 | E-LINE | 303+01 26.9' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 55, ON SAME POST |
| 57 | E-LINE | 303+23 0.1' LT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 58 | NOT USED | | | | | |
| 59 | E-LINE | 303+48 24.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 60 | E-LINE | 303+48 24.0' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 59, ON SAME POST |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-CH01-03
JOB No. 214-3047-013
DATE JANUARY 2022

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


Parametrix
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bcra
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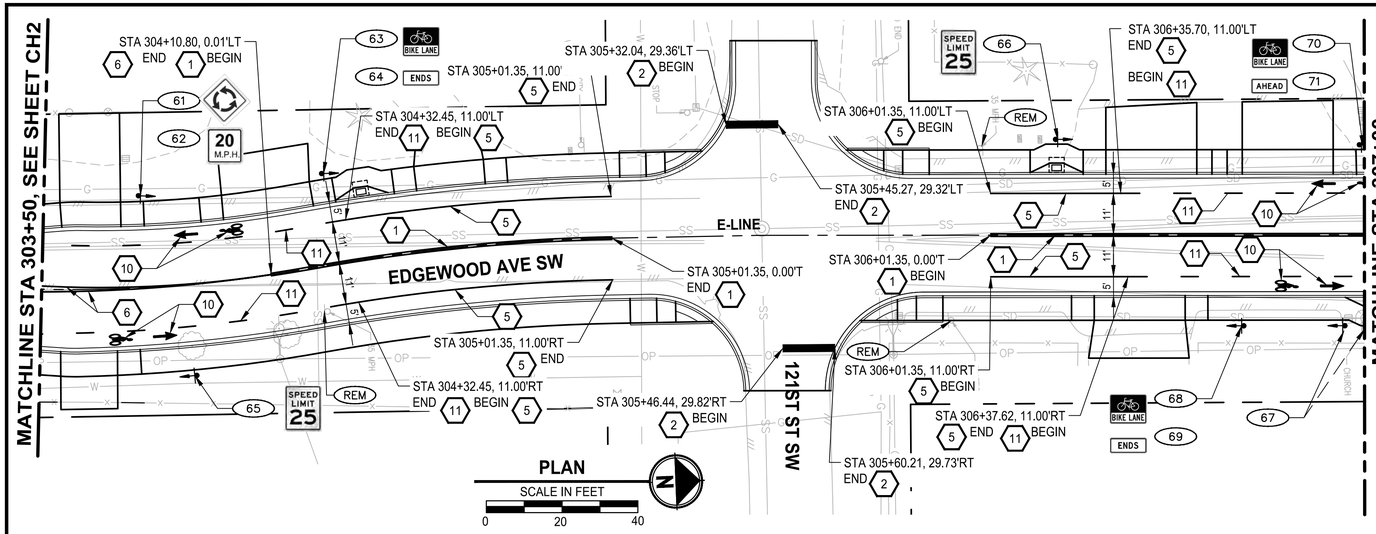
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

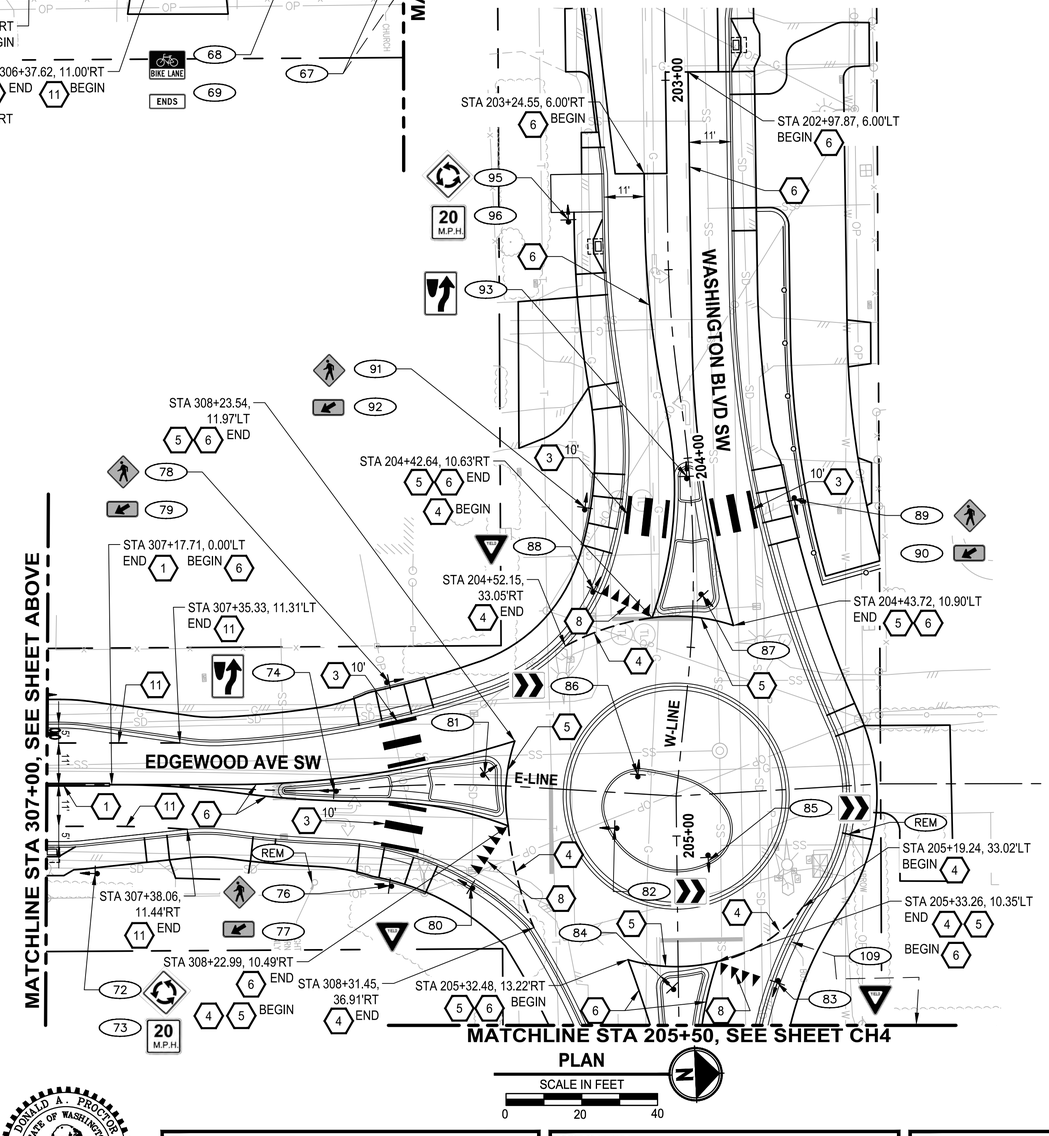
# CHANNELIZATION AND SIGNING PLAN NORTH GATE RD SW

DRAWING NO. 99 OF 169

CH2


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toykost DATE: Friday, January 28, 2022 10:23:11 AM
LAYOUT: CH2




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 61 | E-LINE | 303+77 24.3' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 62 | E-LINE | 303+77 24.3' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 61 ON SAME POST |
| 63 | E-LINE | 304+29 23.8' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 64 | E-LINE | 304+29 23.8' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 63, ON SAME POST |
| 65 | E-LINE | 303+88 24.0' RT | R2-1 | 24" X 30" | SPEED LIMIT 25 | INSTALL NEW SIGN ON NEW POST |
| 66 | E-LINE | 306+19 25.3' LT | R2-1 | 24" X 30" | SPEED LIMIT 25 | INSTALL NEW SIGN ON NEW POST |
| 67 | E-LINE | 306+94 24.0' RT | REPLACE | - | "LAKEWOOD BAPTIST TEMPLE", LEFT ARROW "1 MILES" | REPLACE EXISTING SIGN ON NEW POST |
| 68 | E-LINE | 306+68 24.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 69 | E-LINE | 306+68 24.0' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 68, ON SAME POST |
| 70 | E-LINE | 307+00 23.8' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 71 | E-LINE | 307+00 23.8' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 70, ON SAME POST |
| 72 | E-LINE | 307+13 23.5' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 73 | E-LINE | 307+13 23.5' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 72 ON SAME POST |
| 74 | E-LINE | 307+76 0.5' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 75 | NOT USED | | | | | |
| 76 | E-LINE | 307+89 26.2' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 77 | E-LINE | 307+89 26.2' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 76, ON SAME POST |
| 78 | E-LINE | 307+92 27.5' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 79 | E-LINE | 307+92 27.5' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 78, ON SAME POST |
| 80 | E-LINE | 308+13 27.0' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 81 | E-LINE | 308+16 3.0' LT | D3-1 | 36" X 12" | "EDGEWOOD AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 82 | E-LINE | 308+51 9.5' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 83 | W-LINE | 205+39 26.0' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 84 | W-LINE | 205+40 1.7' RT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 85 | E-LINE | 308+74 16.6' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 86 | E-LINE | 308+56 5.0' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 87 | W-LINE | 204+36 2.5' LT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 88 | W-LINE | 204+35 26.0' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 89 | W-LINE | 204+13 27.3' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 90 | W-LINE | 204+13 27.3' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 89, ON SAME POST |
| 91 | W-LINE | 204+11 28.0' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 92 | W-LINE | 204+11 28.0' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 91, ON SAME POST |
| 93 | W-LINE | 204+05 0.7' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 94 | NOT USED | | | | | |
| 95 | W-LINE | 203+36 26.2' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 96 | W-LINE | 203+36 26.2' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 95, ON SAME POST |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH01-03
JOB No. 214-3047-013
DATE JANUARY 2022

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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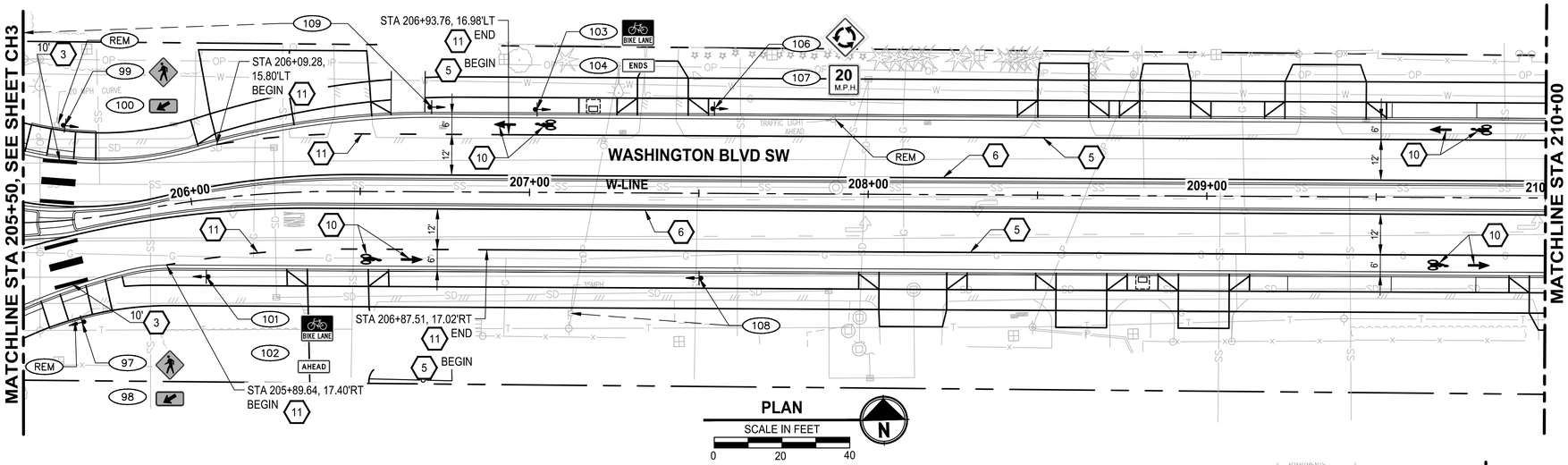
WWW.BCRADESIGN.COM

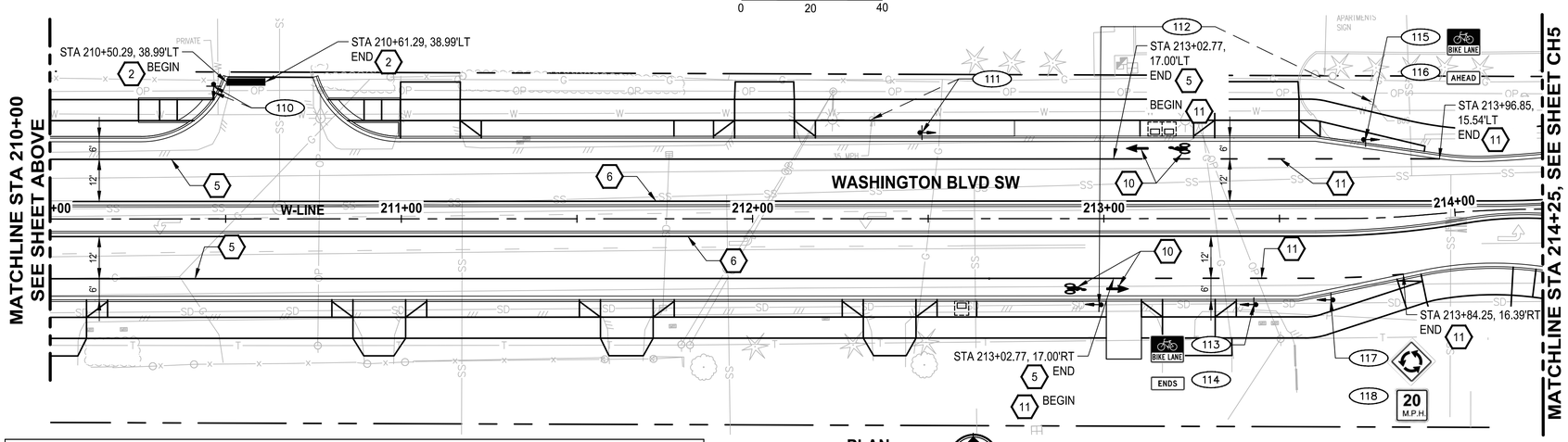

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN EDGEWOOD AVE SW

DRAWING NO. 100 OF 169
CH3


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: CH3
PLOTTED BY: tdykstra
DATE: Friday, January 28, 2022 10:17:17 AM




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| (97) | W-LINE | 205+64 30.4' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 98 | W-LINE | 205+64 30.4' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 97, ON SAME POST |
| 99 | W-LINE | 205+65 27.9' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 100 | W-LINE | 205+65 27.9' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 99, ON SAME POST |
| 101 | W-LINE | 206+01 22.6' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 102 | W-LINE | 206+01 22.6' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 101, ON SAME POST |
| 103 | W-LINE | 207+02 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 104 | W-LINE | 207+02 24.5' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 103, ON SAME POST |
| 105 | NOT USED | | | | | |
| 106 | W-LINE | 207+55 25.0' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 107 | W-LINE | 207+55 25.0' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 106, ON SAME POST |
| 108 | W-LINE | 207+50 25.0' RT | REPLACE | 24" X 30" | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| (109) | W-LINE | 206+71 25.0' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 110 | W-LINE | 210+46 37.8' LT | REPLACE | - | PRIVATE STREET | REPLACE EXISTING SIGN ON NEW POST |
| 111 | W-LINE | 212+48 24.5' LT | REPLACE | 24" X 30" | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 112 | W-LINE | 212+98 24.5' RT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 113 | W-LINE | 213+43 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 114 | W-LINE | 213+43 24.5' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 113, ON SAME POST |
| 115 | W-LINE | 213+75 22.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 116 | W-LINE | 213+75 22.5' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 115, ON SAME POST |
| 117 | W-LINE | 213+64 23.2' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 118 | W-LINE | 213+64 23.2' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 117, ON SAME POST |
| 119 | NOT USED | | | | | |
| 120 | NOT USED | | | | | |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- (REM) REMOVE SIGN
- (XX) RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH04-06
JOB No. 214-3047-013
DATE JANUARY 2022

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022

Parametrix — ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
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bcra
2106 PACIFIC AVE, SUITE 300, TACOMA, WA 98402, P 253.627.4367, WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

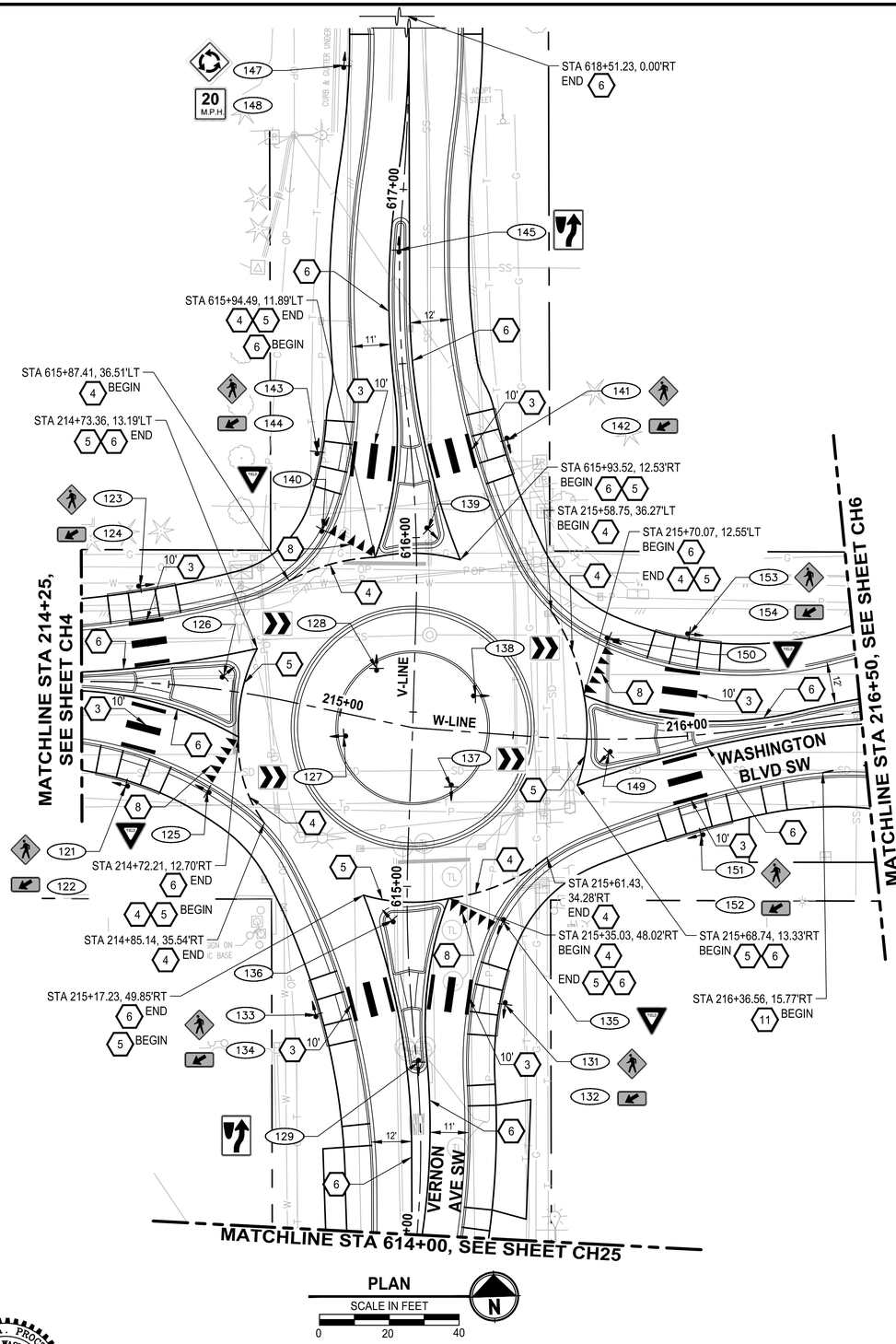
# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 101 OF 169
CH4

LAYOUT: CH4 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Scs\CADD\DWG PLOTTED BY: taylakat DATE: Friday, January 28, 2022 10:48:42 AM

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 121 | W-LINE | 214+39 29.5' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 122 | W-LINE | 214+39 29.5' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 121, ON SAME POST |
| 123 | W-LINE | 214+41 27.7' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 124 | W-LINE | 214+41 27.7' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 123, ON SAME POST |
| 125 | W-LINE | 214+65 29.5' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 126 | W-LINE | 214+65 4.0' LT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 127 | W-LINE | 215+02 6.4' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 128 | W-LINE | 215+07 14.5' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 129 | V-LINE | 614+49 0.5' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 130 | NOT USED | | | | | |
| 131 | V-LINE | 614+64 26.8' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGNS ON NEW POST |
| 132 | V-LINE | 614+64 26.8' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 131, ON SAME POST |
| 133 | V-LINE | 614+65 27.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 134 | V-LINE | 614+65 27.6' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 133, ON SAME POST |
| 135 | V-LINE | 614+89 27.5' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 136 | V-LINE | 614+90 5.0' LT | D3-1 | 36" X 12" | "VERNON AVE SW" | INSTALL NEW SIGN ON NEW POST |
| 137 | W-LINE | 215+33 16.0' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 138 | W-LINE | 215+38 10.4' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 139 | V-LINE | 616+02 3.5' RT | D3-1 | 36" X 12" | "VERNON AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 140 | V-LINE | 616+03 26.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 141 | V-LINE | 616+26 27.7' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 142 | V-LINE | 616+26 27.7' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 141, ON SAME POST |
| 143 | V-LINE | 616+27 26.9' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 144 | V-LINE | 616+27 26.9' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 143, ON SAME POST |
| 145 | V-LINE | 616+83 0.5' LT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 146 | NOT USED | | | | | |
| 147 | V-LINE | 617+35 18.6' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 148 | V-LINE | 617+35 18.6' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 147, ON SAME POST |
| 149 | W-LINE | 215+77 4.0' RT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 150 | W-LINE | 215+78 29.0' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 151 | W-LINE | 216+02 28.6' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 152 | W-LINE | 216+02 28.6' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 151, ON SAME POST |
| 153 | W-LINE | 216+03 29.1' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 154 | W-LINE | 216+03 29.1' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 153, ON SAME POST |




## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
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8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
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12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
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DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH04-06
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
1019 39TH AVE SE, SUITE 100
PUYALLUP, WA 98374
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WWW.PARAMETRIX.COM

bcra
2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

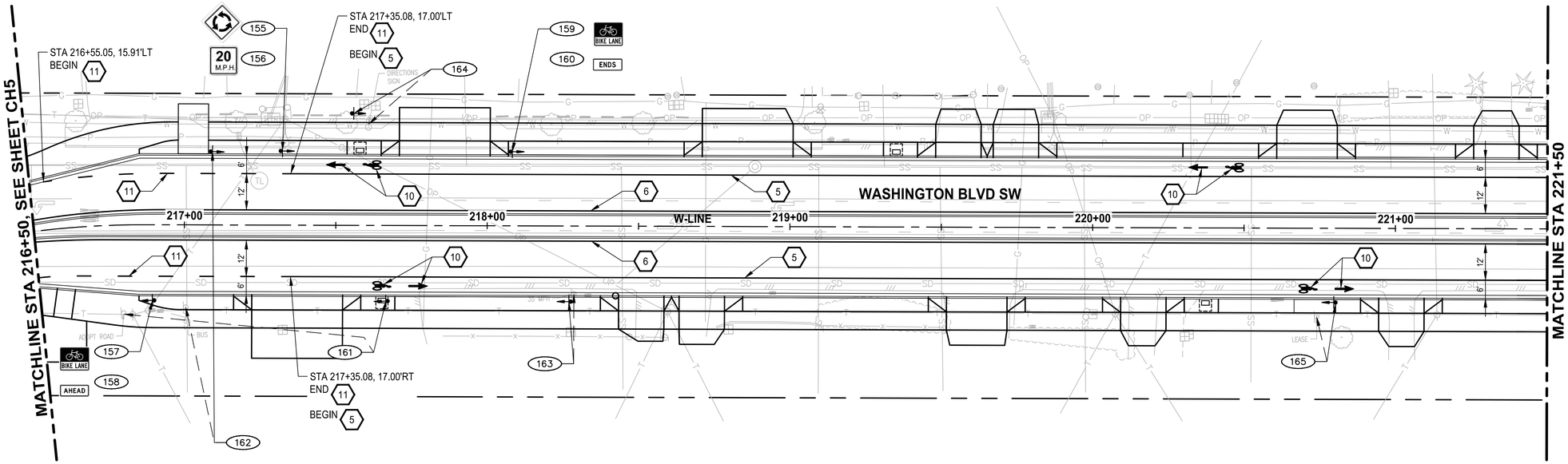

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

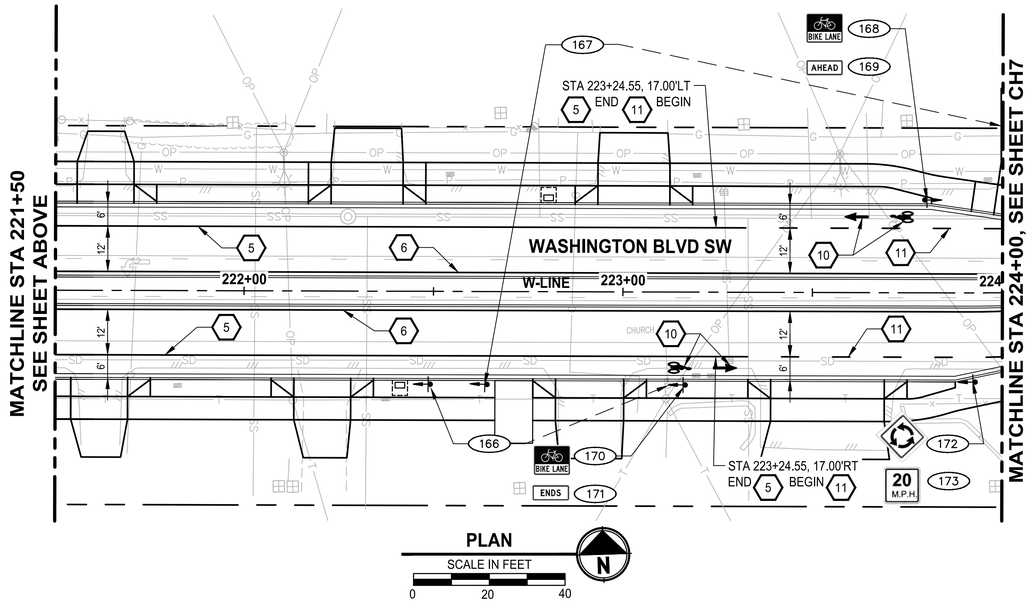
DRAWING NO. 102 OF 169

CH5


LAYOUT: CH5 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:19:27 PM




PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| (155) | W-LINE | 217+32 24.5' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 156 | W-LINE | 217+32 24.5' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 155, ON SAME POST |
| 157 | W-LINE | 216+90 25.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 158 | W-LINE | 216+90 25.0' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 157, ON SAME POST |
| 159 | W-LINE | 218+08 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 160 | W-LINE | 218+08 24.5' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 159, ON SAME POST |
| 161 | W-LINE | 217+67 25.0' RT | REPLACE | - | "ADOPT A ROAD" | REPLACE EXISTING SIGN ON NEW POST |
| 162 | W-LINE | 217+09 24.5' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 163 | W-LINE | 218+27 25.0' RT | REPLACE | - | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 164 | W-LINE | 217+55 37.0' LT | REPLACE | - | DIRECTIONS SIGN | REPLACE EXISTING SIGN ON NEW POST |
| 165 | W-LINE | 220+79 24.5' RT | REPLACE | - | "LEASE" | REPLACE EXISTING SIGN ON NEW POST |
| 166 | W-LINE | 222+94 24.5' RT | REPLACE | - | CHURCH | REPLACE EXISTING SIGN ON NEW POST |
| 167 | W-LINE | 222+63 24.5' RT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 168 | W-LINE | 223+80 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 169 | W-LINE | 223+80 24.5' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 168, ON SAME POST |
| 170 | W-LINE | 223+16 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 171 | W-LINE | 223+16 24.5' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 170, ON SAME POST |
| 172 | W-LINE | 223+92 23.5' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 173 | W-LINE | 223+92 23.5' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 172, ON SAME POST |
| 174 | NOT USED | | | | | |
| 175 | NOT USED | | | | | |
| 176 | NOT USED | | | | | |
| 177 | NOT USED | | | | | |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- (REM) REMOVE SIGN
- (XX) RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

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DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

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FILE NAME PS3047013-CH04-06
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CITY OF LAKEWOOD WA 1996

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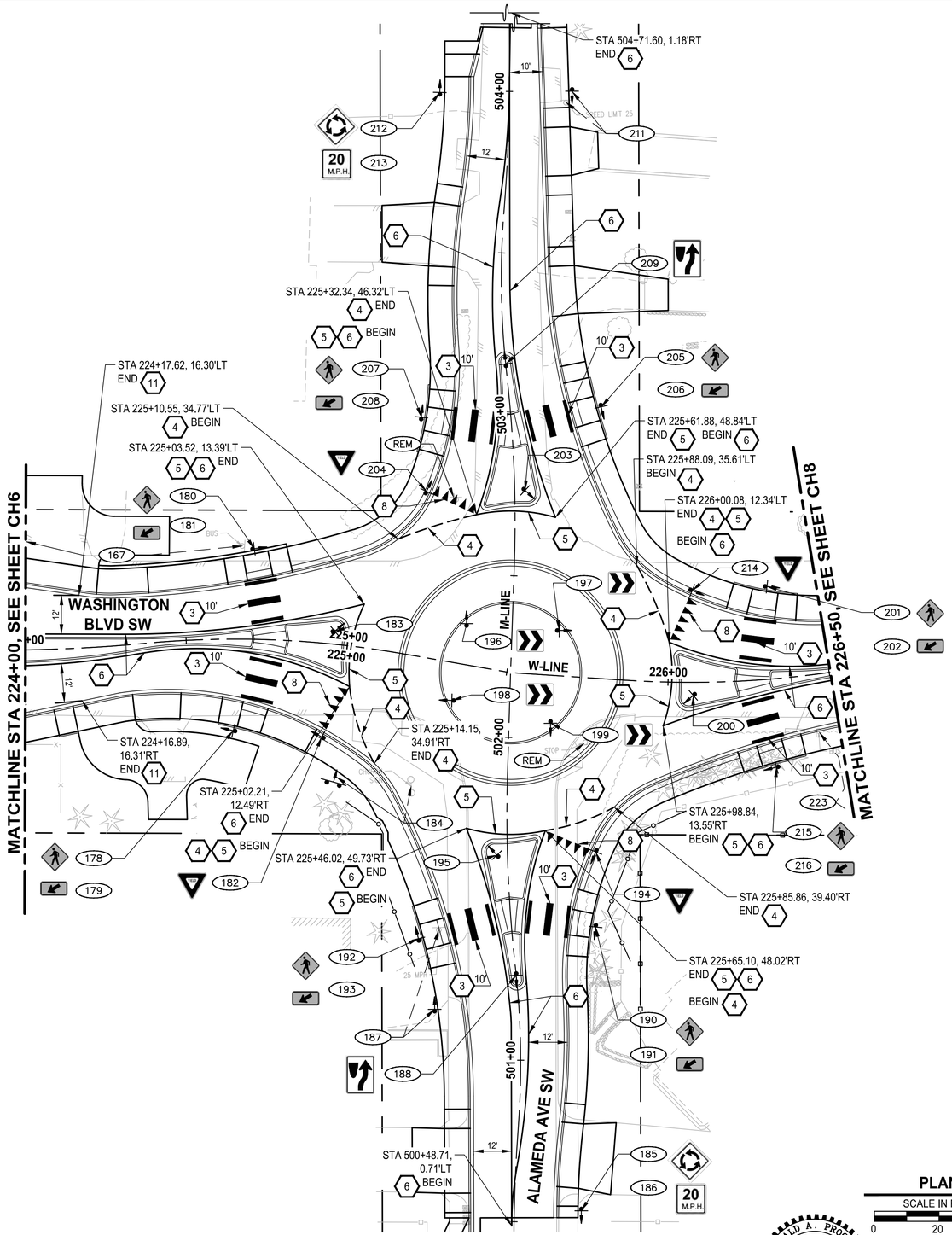
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 103 OF 169
CH6


LAYOUT: CH6 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:19:50 PM




PLAN
SCALE IN FEET
0 20 40

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 178 | W-LINE | 224+65 28.3' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 179 | W-LINE | 224+65 28.3' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 178, ON SAME POST |
| 180 | W-LINE | 224+71 28.0' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 181 | W-LINE | 224+71 28.0' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 180, ON SAME POST |
| 182 | W-LINE | 224+95 29.0' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 183 | W-LINE | 224+96 4.0' LT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 184 | W-LINE | 225+01 42.4' RT | REPLACE | - | "LAKE CITY COMMUNITY CHURCH" | REPLACE EXISTING SIGN ON NEW POST |
| 185 | M-LINE | 500+54 21.0' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 186 | M-LINE | 500+54 21.0' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 185, ON SAME POST |
| 187 | M-LINE | 501+18 26.0' LT | REPLACE | - | SPEED LIMIT 25 | REPLACE EXISTING SIGN ON NEW POST |
| 188 | M-LINE | 501+26 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 189 | NOT USED | | | | | |
| 190 | M-LINE | 501+39 25.9' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 191 | M-LINE | 501+39 25.9' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 190, ON SAME POST |
| 192 | M-LINE | 501+40 29.0' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 193 | M-LINE | 501+40 29.0' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 192, ON SAME POST |
| 194 | M-LINE | 501+64 27.5' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 195 | M-LINE | 501+64 3.3' LT | D3-1 | 36" X 12" | "ALAMEDA AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 196 | W-LINE | 225+35 12.6' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 197 | W-LINE | 225+65 14.0' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 198 | W-LINE | 225+35 11.6' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 199 | W-LINE | 225+65 14.8' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 200 | W-LINE | 226+08 4.0' RT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 201 | W-LINE | 226+33 28.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 202 | W-LINE | 226+33 28.6' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 201, ON SAME POST |
| 203 | M-LINE | 502+76 3.2' RT | D3-1 | 36" X 12" | "ALAMEDA AVE SW" | INSTALL NEW SIGN ON NEW POST |
| 204 | M-LINE | 502+77 27.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 205 | M-LINE | 503+00 28.1' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 206 | M-LINE | 503+00 28.1' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 205, ON SAME POST |
| 207 | M-LINE | 503+01 27.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 208 | M-LINE | 503+01 27.6' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 207, ON SAME POST |
| 209 | M-LINE | 503+16 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 210 | NOT USED | | | | | |
| 211 | M-LINE | 504+00 19.5' RT | REPLACE | - | SPEED LIMIT 25 | REPLACE EXISTING SIGN ON NEW POST |
| 212 | M-LINE | 503+99 21.5' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 213 | M-LINE | 503+99 21.5' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 212, ON SAME POST |
| 214 | W-LINE | 226+08 28.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 215 | W-LINE | 226+31 27.3' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 216 | W-LINE | 226+31 27.3' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 215, ON SAME POST |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
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DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH07-10
JOB No. 214-3047-013
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CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 104 OF 169
CH7


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taykoat DATE: Friday, January 28, 2022 11:58:39 AM
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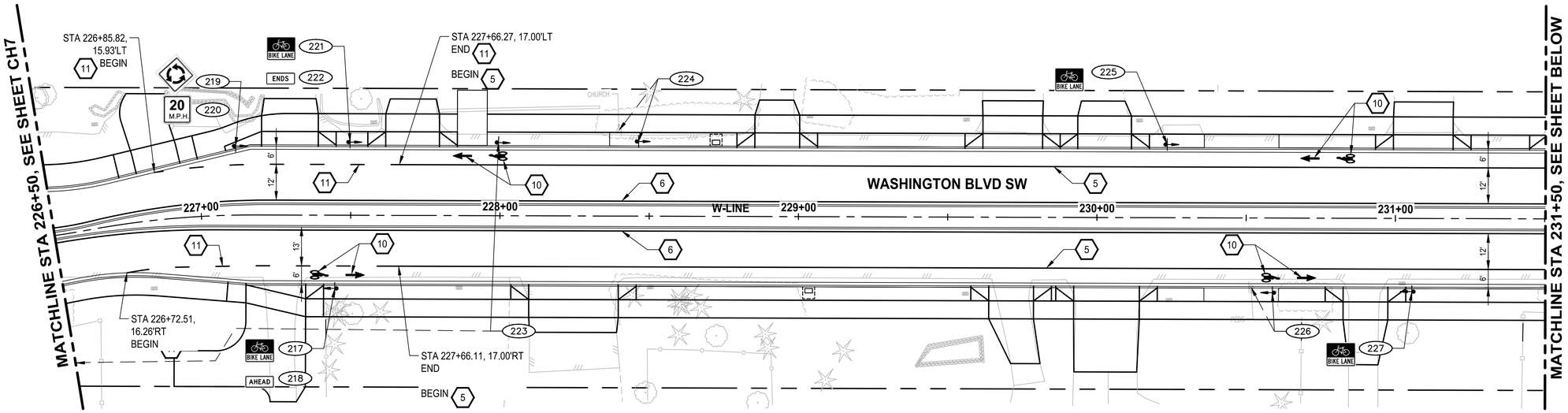
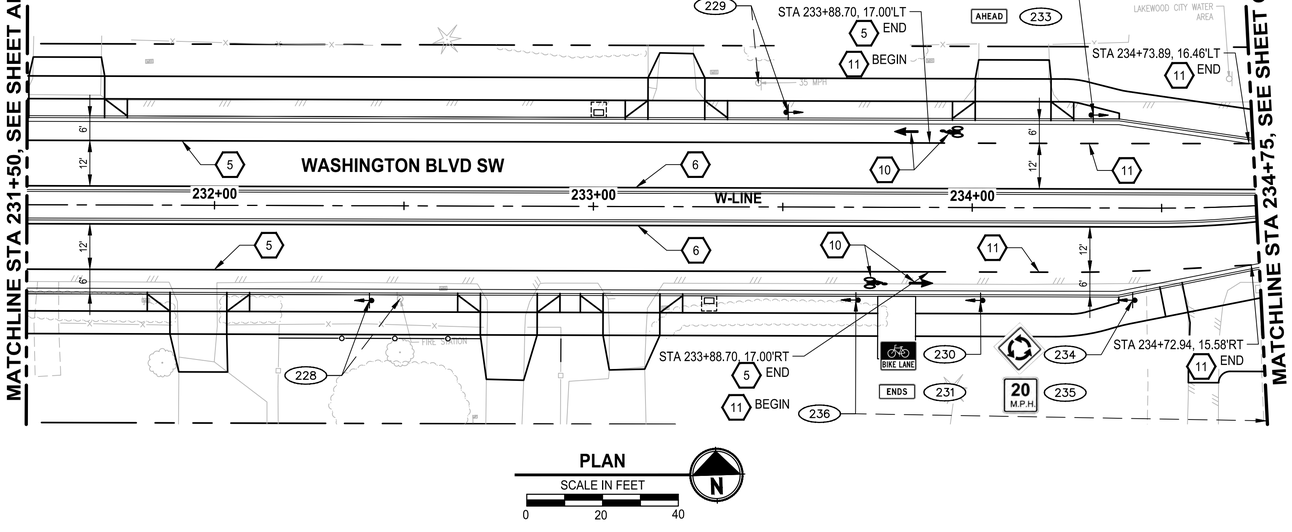



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
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12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 217 | W-LINE | 227+45 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 218 | W-LINE | 227+45 24.5' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 217, ON SAME POST |
| 219 | W-LINE | 227+12 23.0'LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 220 | W-LINE | 227+12 23.0' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 219, ON SAME POST |
| 221 | W-LINE | 227+50 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 222 | W-LINE | 227+50 24.5' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 221, ON SAME POST |
| 223 | W-LINE | 227+99 24.5' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 224 | W-LINE | 228+46 25.0' LT | REPLACE | - | "LAKE CITY COMMUNITY CHURCH", LEFT ARROW | REPLACE EXISTING SIGN ON NEW POST |
| 225 | W-LINE | 230+23 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 226 | W-LINE | 230+59 25.0' RT | REPLACE | - | SCHOOL (SYMBOL) | REPLACE EXISTING SIGN ON NEW POST |
| 227 | W-LINE | 231+06 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 228 | W-LINE | 232+41 25.0' RT | REPLACE | - | EMERGENCY VEHICLE | REPLACE EXISTING SIGN ON NEW POST |
| 229 | W-LINE | 233+51 25.0' LT | REPLACE | - | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 230 | W-LINE | 234+02 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 231 | W-LINE | 234+02 24.5' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 230, ON SAME POST |
| 232 | W-LINE | 234+32 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 233 | W-LINE | 234+32 24.5' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 232, ON SAME POST |
| 234 | W-LINE | 234+43 24.3' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 235 | W-LINE | 234+43 24.3' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 234, ON SAME POST |
| 236 | W-LINE | 233+69 24.5' RT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

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JOB No. 214-3047-013
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CITY OF LAKEWOOD WA #19968

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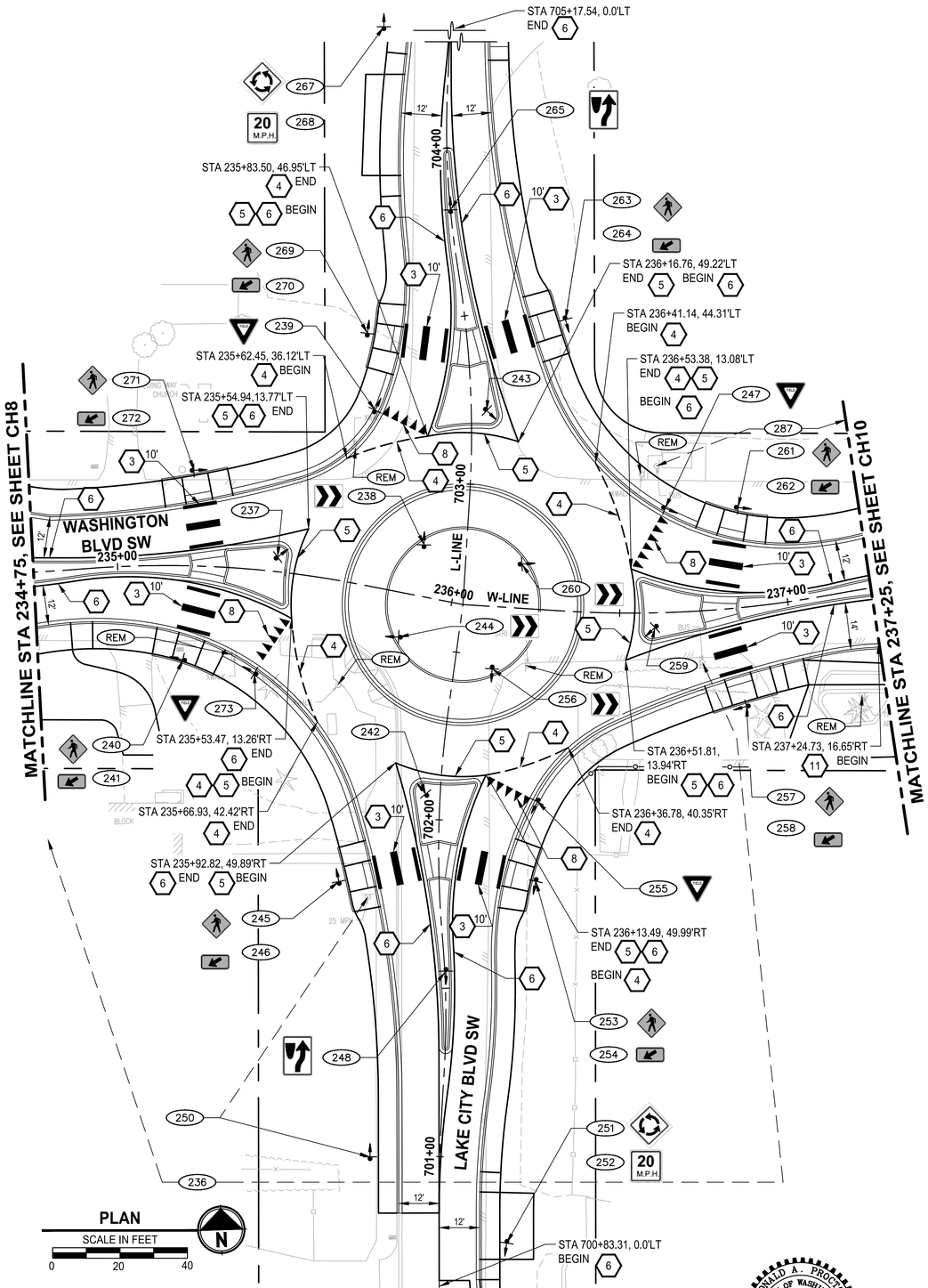
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 105 OF 169
CH8


LAYOUT: CH8 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Friday, January 28, 2022 11:17:33 AM




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 237 | W-LINE | 235+47 4.3' LT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST |
| 238 | W-LINE | 235+89 15.1' LT | R6-4 | 30" X 30" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 239 | L-LINE | 703+22 28.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 240 | W-LINE | 235+20 27.9' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 241 | W-LINE | 235+20 27.9' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 240, ON SAME POST |
| 242 | L-LINE | 702+07 4.3' LT | D3-1 | 36" X 12" | "LAKE CITY BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 243 | L-LINE | 703+22 4.6' RT | D3-1 | 36" X 12" | "LAKE CITY BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 244 | W-LINE | 235+87 13.1' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 245 | L-LINE | 701+83 29.7' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 246 | L-LINE | 701+83 29.7' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 245, ON SAME POST |
| 247 | W-LINE | 236+64 31.0' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 248 | L-LINE | 701+55 0.4' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 249 | NOT USED | | | | | |
| 250 | L-LINE | 700+99 20.7' LT | REPLACE | 24" X 30" | SPEED LIMIT 25 | REPLACE EXISTING SIGN ON NEW POST |
| 251 | L-LINE | 700+74 20.0' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 252 | L-LINE | 700+74 20.0' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 251, ON SAME POST |
| 253 | L-LINE | 701+81 28.7' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 254 | L-LINE | 701+81 28.7' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 253, ON SAME POST |
| 255 | L-LINE | 702+06 28.9' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 256 | W-LINE | 236+13 18.5' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 257 | W-LINE | 236+85 29.3' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 258 | W-LINE | 236+85 29.3' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 257, ON SAME POST |
| 259 | W-LINE | 236+60 4.3' RT | D3-1 | 36" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 260 | W-LINE | 236+20 13.1' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 261 | W-LINE | 236+88 29.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 262 | W-LINE | 236+88 29.6' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 261, ON SAME POST |
| 263 | L-LINE | 703+46 29.6' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 264 | L-LINE | 703+46 29.6' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 263, ON SAME POST |
| 265 | L-LINE | 703+81 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 266 | NOT USED | | | | | |
| 267 | L-LINE | 704+48 19.4' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 268 | L-LINE | 704+48 19.4' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 267, ON SAME POST |
| 269 | L-LINE | 703+48 29.2' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 270 | L-LINE | 703+48 29.2' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 269, ON SAME POST |
| 271 | W-LINE | 235+22 28.3' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 272 | W-LINE | 235+22 28.3' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 271, ON SAME POST |
| 273 | W-LINE | 235+43 30.6' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 274-280 | NOT USED | | | | | |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03

REM — REMOVE SIGN

XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-CH07-10
JOB No. 214-3047-013
DATE JANUARY 2022

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM

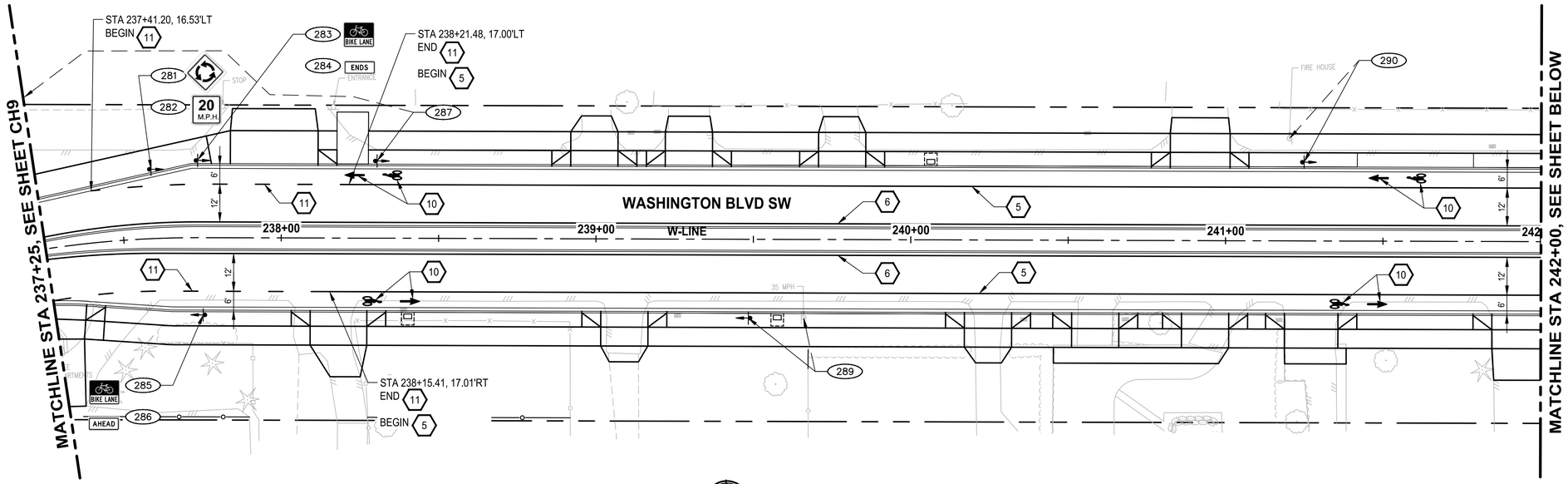

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

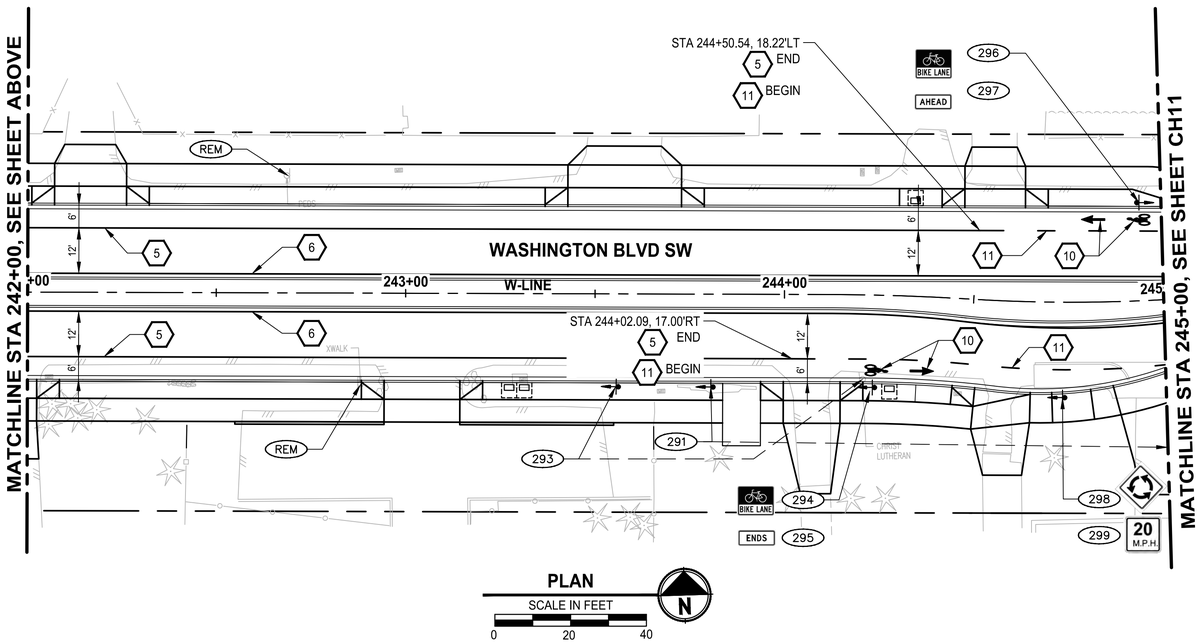
DRAWING NO. 106 OF 169

CH9


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toykoat DATE: Friday, January 28, 2022 12:06:03 PM
LAYOUT: CH9




PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- (REM) REMOVE SIGN
- (XX) RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 281 | W-LINE | 237+60 22.0' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGNS ON NEW POST |
| 282 | W-LINE | 237+60 22.0' LT | W13-1P | 18" X 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 281, ON SAME POST |
| 283 | W-LINE | 237+73 24.5' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 284 | W-LINE | 237+73 24.5' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 283, ON SAME POST |
| 285 | W-LINE | 237+75 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 286 | W-LINE | 237+75 24.5' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 285, ON SAME POST |
| 287 | W-LINE | 238+30 24.5' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 288 | NOT USED | | | | | |
| 289 | W-LINE | 239+48 25.0' RT | REPLACE | - | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 290 | W-LINE | 241+25 25.0' LT | REPLACE | | EMERGENCY VEHICLE | REPLACE EXISTING SIGN ON NEW POST |
| 291 | W-LINE | 243+81 24.5' RT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 292 | NOT USED | | | | | |
| 293 | W-LINE | 243+56 24.5' RT | REPLACE | - | CHRIST LUTHERAN CHURCH | REPLACE EXISTING SIGN ON NEW POST |
| 294 | W-LINE | 244+24 24.5' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 295 | W-LINE | 244+24 24.5' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 294, ON SAME POST |
| 296 | W-LINE | 244+95 26.0' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 297 | W-LINE | 244+95 26.0' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 296, ON SAME POST |
| 298 | W-LINE | 244+74 25.2' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 299 | W-LINE | 244+74 25.2' RT | W13-1P | 18" X 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 298, ON SAME POST |

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH07-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR STATE OF WASHINGTON 31791 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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WWW.PARAMETRIX.COM

bcra
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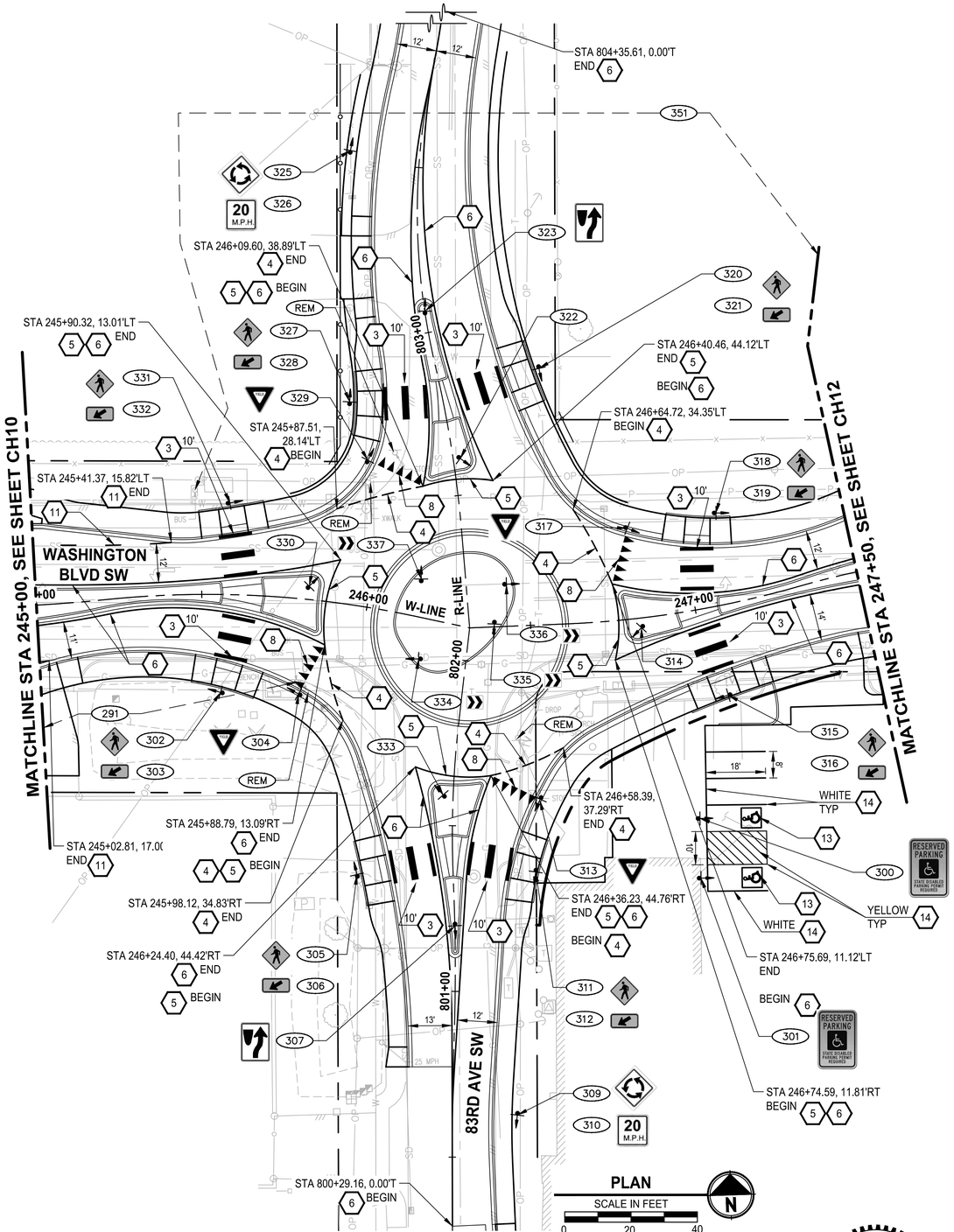
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 107 OF 169
CH10

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: taykokat DATE: Friday, January 28, 2022 11:17:46 AM
LAYOUT: CH10




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 300 | W-LINE | 246+92 62.8' RT | R7-801 | 12" x 18" | PARKING ACCESSIBLE RESTRICTION | INSTALL NEW SIGN ON NEW POST |
| 301 | W-LINE | 246+90 80.1' RT | R7-801 | 12" x 18" | PARKING ACCESSIBLE RESTRICTION | INSTALL NEW SIGN ON NEW POST |
| 302 | W-LINE | 245+56 29.5' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 303 | W-LINE | 245+56 29.5' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 302, ON SAME POST |
| 304 | W-LINE | 245+82 28.7' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 305 | R-LINE | 801+36 29.0' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 306 | R-LINE | 801+36 29.0' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 305, ON SAME POST |
| 307 | R-LINE | 801+19 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 308 | NOT USED | | | | | |
| 309 | R-LINE | 800+63 19.6' RT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 310 | R-LINE | 800+63 19.6' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 309, ON SAME POST |
| 311 | R-LINE | 801+35 24.9' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 312 | R-LINE | 801+35 24.9' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 311, ON SAME POST |
| 313 | R-LINE | 801+59 26.3' RT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 314 | W-LINE | 246+83 2.9' RT | D3-1 | 38" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 315 | W-LINE | 247+05 27.0' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 316 | W-LINE | 247+05 27.0' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 315, ON SAME POST |
| 317 | W-LINE | 246+82 27.4' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 318 | W-LINE | 247+12 27.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 319 | W-LINE | 247+12 27.6' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 318, ON SAME POST |
| 320 | R-LINE | 802+83 30.3' RT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 321 | R-LINE | 802+83 30.3' RT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 320, ON SAME POST |
| 322 | R-LINE | 802+61 2.1' RT | D3-1 | 38" X 12" | "83RD AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 323 | R-LINE | 803+07 0.0' RT | R4-7 | 24" X 30" | KEEP RIGHT | INSTALL NEW SIGN ON NEW POST |
| 324 | NOT USED | | | | | |
| 325 | R-LINE | 803+53 21.0' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 326 | R-LINE | 803+53 21.0' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 325, ON SAME POST |
| 327 | R-LINE | 802+85 27.6' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 328 | R-LINE | 802+85 27.6' LT | W167P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 327, ON SAME POST |
| 329 | R-LINE | 802+64 25.5' LT | R1-2 | 30" X 30" X 30" | "YIELD" | INSTALL NEW SIGN ON NEW POST |
| 330 | W-LINE | 245+82 4.0' LT | D3-1 | 38" X 12" | "WASHINGTON BLVD SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 331 | W-LINE | 245+58 27.7' LT | W11-2 | 30" X 30" | PEDESTRIAN | INSTALL NEW SIGN ON NEW POST |
| 332 | W-LINE | 245+58 27.7' LT | W16-7P | 24" X 12" | DOWNWARD DIAGONAL ARROW | INSTALL NEW SIGN UNDER SIGN 331, ON SAME POST |
| 333 | R-LINE | 801+59 3.0' LT | D3-1 | 38" X 12" | "83RD AVE SW" | INSTALL NEW SIGN ON NEW POST, SEE COL STD PLAN PS-01 FOR SIGN DETAILS |
| 334 | W-LINE | 246+19 12.4' RT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 335 | W-LINE | 246+39 1.0' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 336 | W-LINE | 246+43 12.7' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |
| 337 | W-LINE | 246+14 11.4' LT | R6-4 | 30" X 24" | ROUNDABOUT DIRECTIONAL | INSTALL NEW SIGN ON NEW POST |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- (REM) REMOVE SIGN
- (XX) RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
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| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH11-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR STATE OF WASHINGTON 31791 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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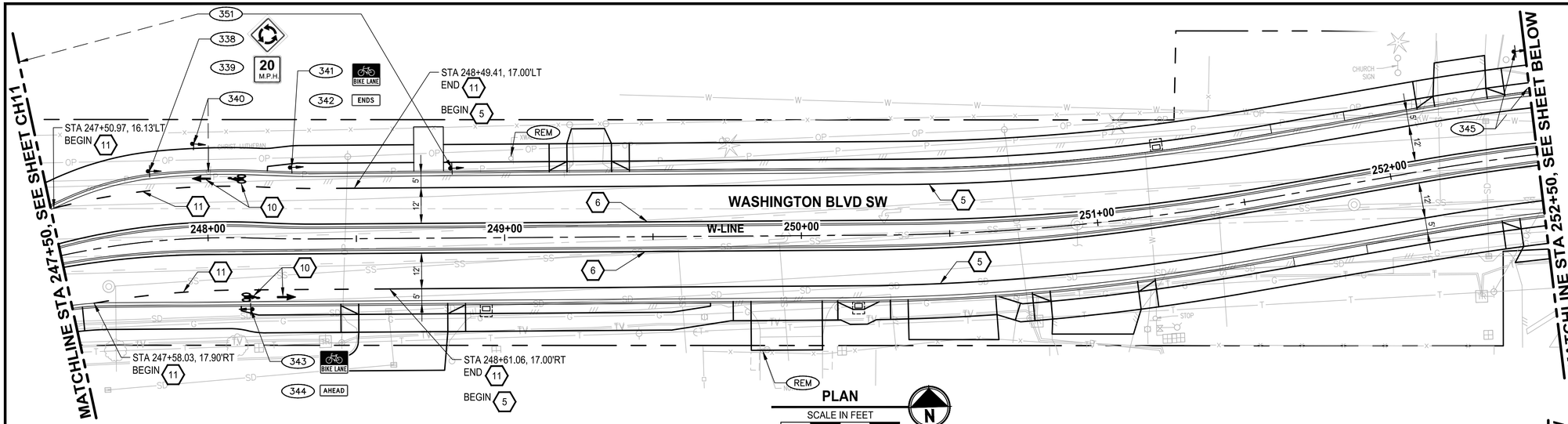
2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

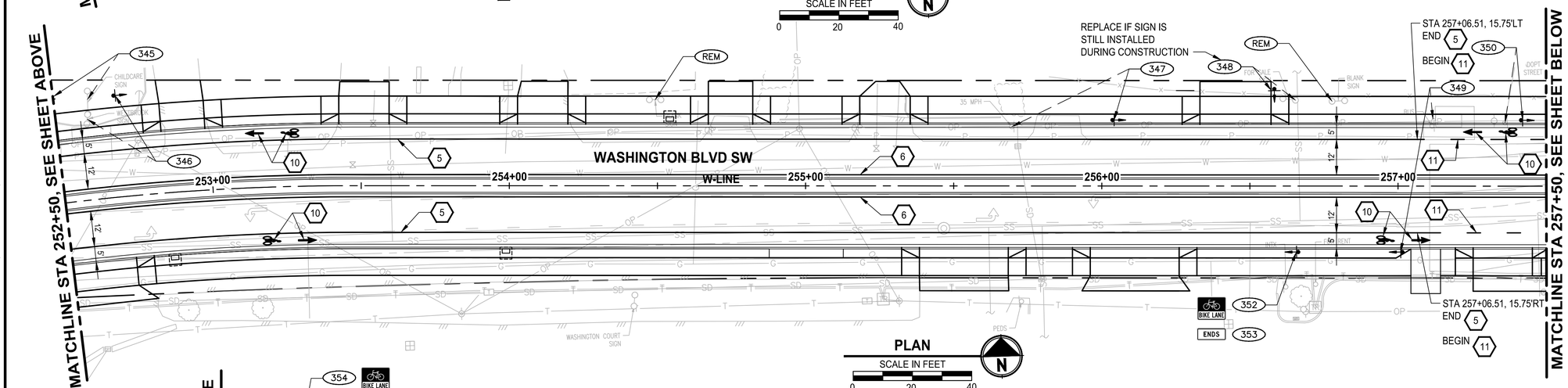

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

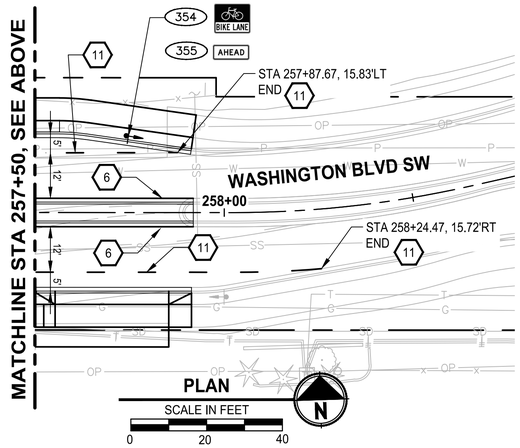
# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 108 OF 169
CH11


LAYOUT: CH11 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taykokat DATE: Friday, January 28, 2022 11:32:12 AM




## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 338 | W-LINE | 247+82 23.6' LT | W2-6 | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 339 | W-LINE | 247+82 23.6' LT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 338, ON SAME POST |
| 340 | W-LINE | 247+96 31.8' LT | REPLACE | - | "CHRIST LUTHERAN CHURCH" | REPLACE EXISTING SIGN ON NEW POST |
| 341 | W-LINE | 248+27 24.1' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 342 | W-LINE | 248+27 24.1' LT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 341, ON SAME POST |
| 343 | W-LINE | 248+15 24.0' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 344 | W-LINE | 248+15 24.0' RT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 343, ON SAME POST |
| 345 | W-LINE | 252+46 35.3' LT | REPLACE | - | "CHILDCARE CENTER" | REPLACE EXISTING SIGN ON NEW POST |
| 346 | W-LINE | 252+70 34.2' LT | REPLACE | - | "WESTBROOK ACADEMY CHILDCARE" | REPLACE EXISTING SIGN ON NEW POST |
| 347 | W-LINE | 256+04 22.2' LT | REPLACE | - | SPEED LIMIT 35 | REPLACE EXISTING SIGN ON NEW POST |
| 348 | W-LINE | 256+58 32.2' LT | REPLACE | - | "FOR SALE SIGN" | REPLACE EXISTING SIGN ON NEW POST |
| 349 | W-LINE | 257+01 22.2' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 350 | W-LINE | 257+42 22.3' LT | REPLACE | - | "ADOPT STREET LITTER CONTROL" | REPLACE EXISTING SIGN ON NEW POST |
| 351 | W-LINE | 248+82 23.5' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW SIGN POST |
| 352 | W-LINE | 256+66 22.2' RT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 353 | W-LINE | 256+66 22.2' RT | R3-17bP | 24" X 8" | "ENDS" | INSTALL NEW SIGN UNDER SIGN 352 ON SAME POST |
| 354 | W-LINE | 257+75 20.2' LT | R3-17 | 24" X 18" | BIKE LANE | INSTALL NEW SIGN ON NEW POST |
| 355 | W-LINE | 257+75 20.2' LT | R3-17aP | 24" X 8" | "AHEAD" | INSTALL NEW SIGN UNDER SIGN 354, ON SAME POST |

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
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| | | | |
| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-CH11-12
JOB No. 214-3047-013
DATE JANUARY 2022

DONALD A. PROCOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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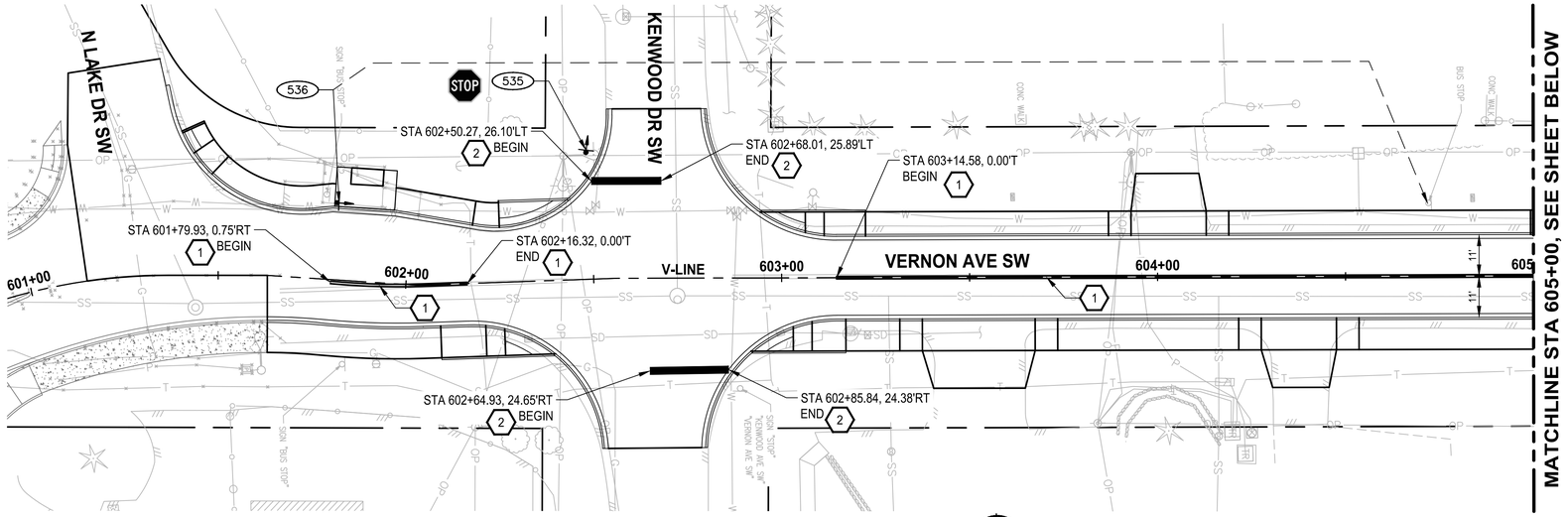
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

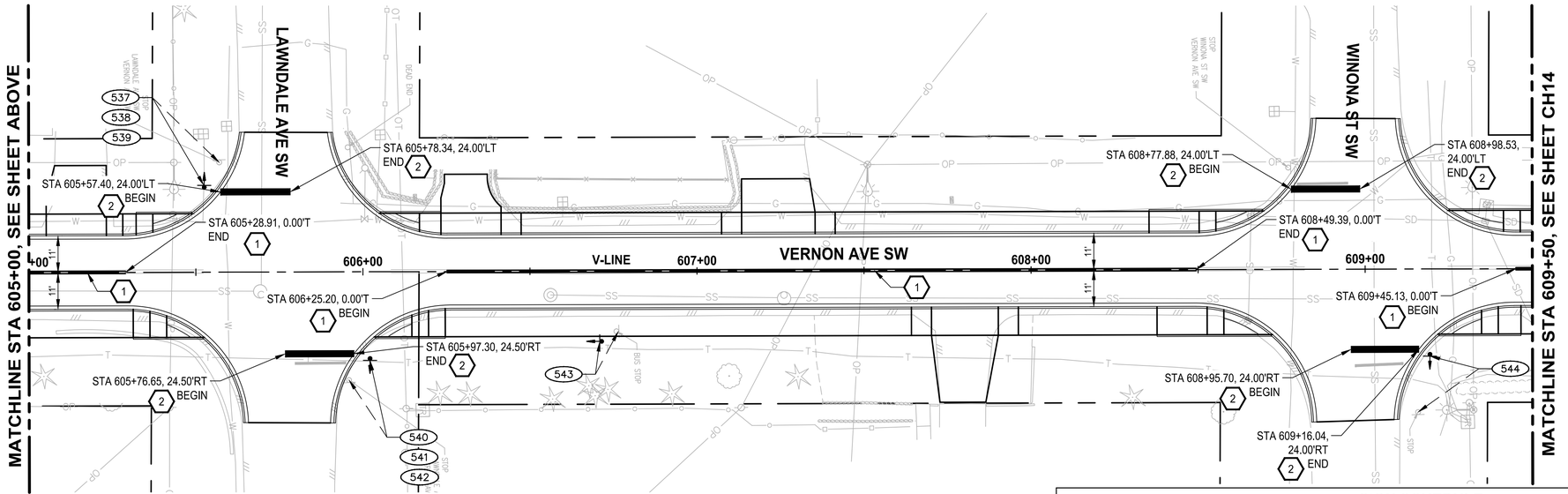
# CHANNELIZATION AND SIGNING PLAN WASHINGTON BLVD SW

DRAWING NO. 109 OF 169
CH12


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
DATE: Friday, January 28, 2022 11:32:48 AM
PLOTTED BY: taylokat
LAYOUT: CH12




PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
6. INSTALL PLASTIC EDGE LINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
7. INSTALL PLASTIC EDGE LINE (WHITE) PER PIERCE COUNTY STD PLAN PC. H2.9
8. INSTALL YIELD LINE SYMBOL PER WSDOT STD PLAN M-24.60-04
9. INSTALL PLASTIC TRAFFIC ARROW PER PIERCE COUNTY STD PLAN PC. H2.8 AND WSDOT STD PLAN M-12.10-02
10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
11. INSTALL PLASTIC WIDE DOTTED LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

### SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 535 | V-LINE | 602+49 34.3' LT | R1-1 | 30" X 30" | STOP | INSTALL NEW SIGN ON NEW POST |
| 536 | V-LINE | 601+81 20.5' LT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 537 | V-LINE | 605+53 26.0' LT | REPLACE | - | STOP | REPLACE EXISTING SIGN ON NEW POST |
| 538 | V-LINE | 605+53 26.0' LT | REPLACE | - | "LAWNDALE AVE SW" | REPLACE EXISTING SIGN ABOVE SIGN 537, ON SAME POST |
| 539 | V-LINE | 605+53 26.0' LT | REPLACE | - | "VERNON AVE SW" | REPLACE EXISTING SIGN ABOVE SIGN 537, ON SAME POST |

PLAN
SCALE IN FEET
0 20 40

### SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| 540 | V-LINE | 606+02 26.5' RT | REPLACE | - | STOP | REPLACE EXISTING SIGN ON NEW POST |
| 541 | V-LINE | 606+02 26.5' RT | REPLACE | - | "VERNON AVE SW" | REPLACE EXISTING SIGN ABOVE SIGN 540, ON SAME POST |
| 542 | V-LINE | 606+02 26.5' RT | REPLACE | - | "LAWNDALE AVE SW" | REPLACE EXISTING SIGN ABOVE SIGN 540, ON SAME POST |
| 543 | V-LINE | 606+71 21.0' RT | REPLACE | - | BUS STOP | REPLACE EXISTING SIGN ON NEW POST |
| 544 | V-LINE | 609+19 26.0' RT | REPLACE | - | STOP | REPLACE EXISTING SIGN ON NEW POST |

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-CH24-25
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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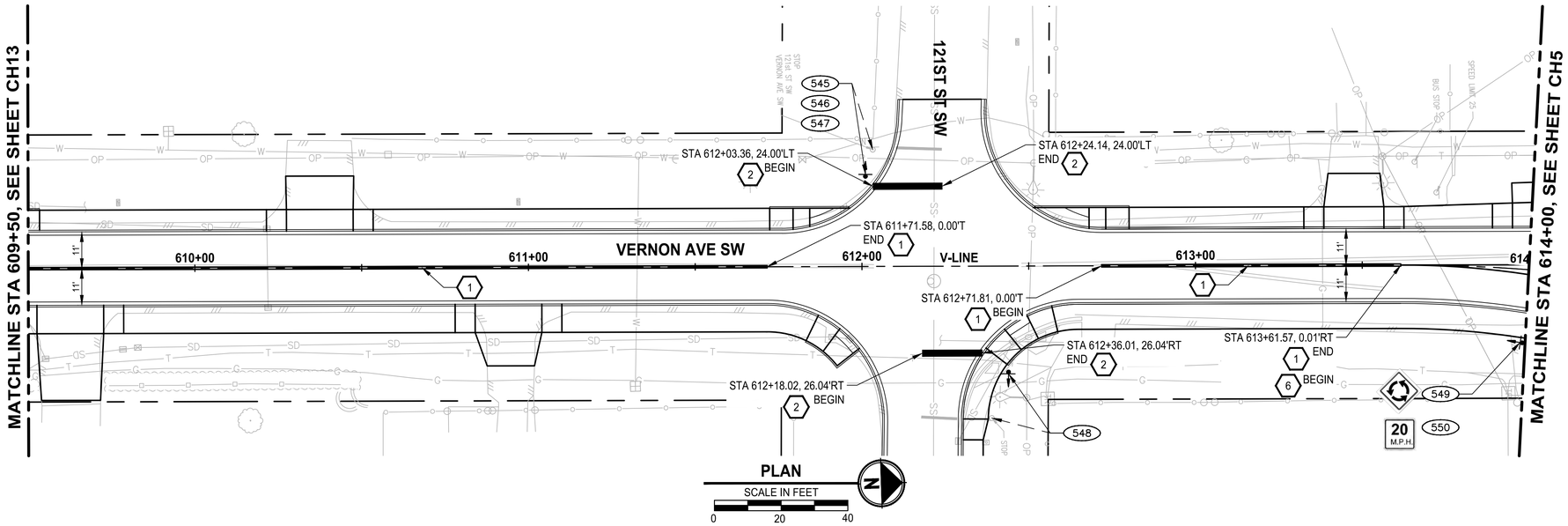
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN VERNON AVE SW

DRAWING NO. 110 OF 169
CH13


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: CH13
PLOTTED BY: taylokat DATE: Friday, January 28, 2022 12:13:01 PM




## SIGN SCHEDULE

| SIGN # | ALIGNMENT | STATION & OFFSET | MUTCD | SIZE (IN) W X H | DESCRIPTION | COMMENTS |
|---|---|---|---|---|---|---|
| (545) | V-LINE | 612+01 27.5' LT | REPLACE | - | STOP | REPLACE EXISTING SIGN ON NEW POST |
| 546 | V-LINE | 612+01 27.5' LT | REPLACE | - | "VERNON AVE SW" | REPLACE EXISTING SIGN ABOVE SIGN 545, ON SAME POST |
| 547 | V-LINE | 612+01 27.5' LT | REPLACE | - | "121ST ST SW" | REPLACE EXISTING SIGN ABOVE SIGN 545, ON SAME POST |
| 548 | V-LINE | 612+44 32.3' RT | REPLACE | - | STOP | REPLACE EXISTING SIGN ON NEW POST |
| 549 | V-LINE | 613+99 22.0' RT | R6-5P | 30" X 30" | ROUNDABOUT CIRCULATION PLAQUE | INSTALL NEW SIGN ON NEW POST |
| 550 | V-LINE | 613+99 22.0' RT | W13-1P | 18" x 18" | ADVISORY SPEED PLAQUE | INSTALL NEW SIGN UNDER SIGN 549 ON SAME POST |

## CHANNELIZATION NOTES:

1. INSTALL PLASTIC DOUBLE CENTERLINE (YELLOW) PER PIERCE COUNTY STD PLAN PC. H2.9
2. INSTALL PLASTIC STOP BAR PER COL STD PLAN PS-05
3. INSTALL PLASTIC CROSSWALK LINE PER COL STD PLAN PS-05
4. INSTALL PLASTIC WHITE DOTTED ENTRY LINE PER WSDOT STD PLAN M-12.10-02
5. INSTALL PLASTIC WIDE LANE LINE PER PIERCE COUNTY STD PLAN PC. H2.9
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10. INSTALL BIKE LANE SYMBOL PER COL STD PLAN PS-04
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12. INSTALL PLASTIC TWO-WAY LEFT-TURN CENTER LINE PER PIERCE COUNTY STD PLAN PC. H2.9
13. INSTALL PLASTIC ACCESS PARKING SYMBOL
14. INSTALL PLASTIC LINE (4 INCH)

## LEGEND:

- NEW SIGN, SINGLE POST PER CITY OF LAKEWOOD STD DETAIL PS-03
- REM — REMOVE SIGN
- XX — RELOCATE / REPLACED SIGN

## GENERAL NOTES:

1. SALVAGE ALL EXISTING SIGNS AND METAL POSTS TO O&M SHOP.
2. SIGN STATION AND OFFSET PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL MARK SIGN LOCATION BASED ON THE OFFSET REQUIREMENTS PER COL STD PLAN PS-03. ONCE MARKED, THE ENGINEER WILL APPROVE LOCATION OR MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED M. TSUN
DRAWN B. MAY
CHECKED K. HOUSE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-CH24-25
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DONALD A. PROCTOR — STATE OF WASHINGTON — 31791 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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WWW.BCRADESIGN.COM

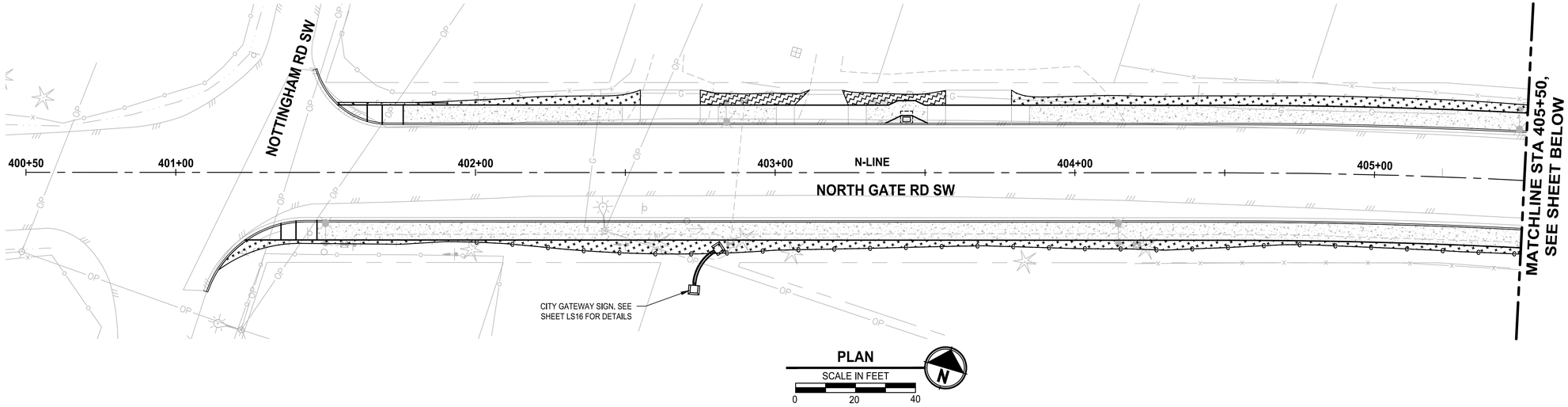
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# CHANNELIZATION AND SIGNING PLAN VERNON AVE SW

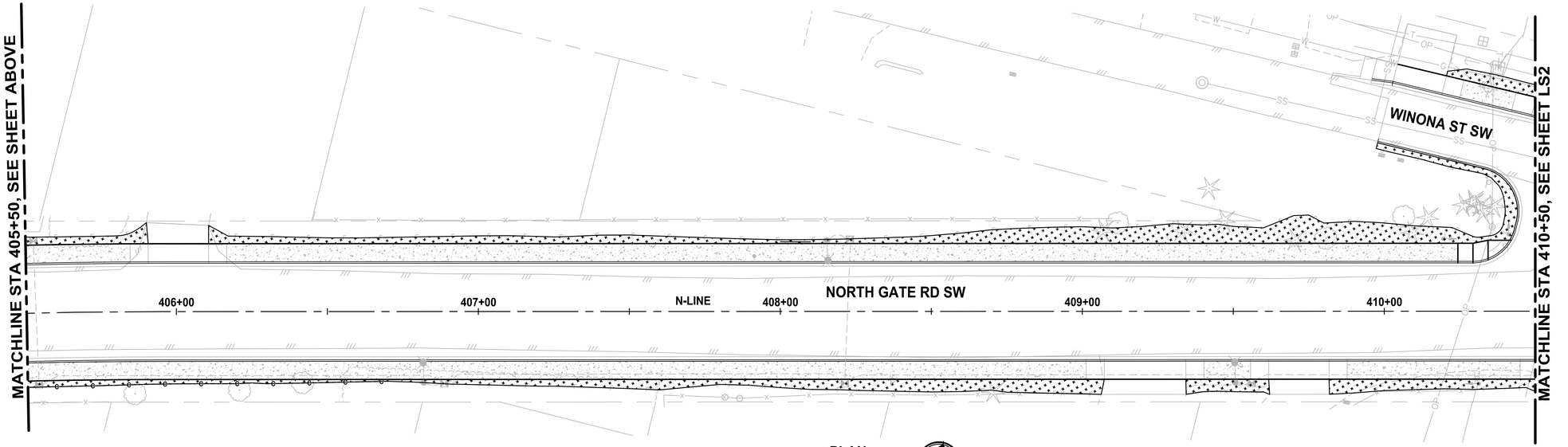
DRAWING NO. 111 OF 169

CH14

LAYOUT: CH14 PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Friday, January 28, 2022 11:44:46 AM




PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

1. SEE SHEET LS15 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
2. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH APPROVED IMPORTED TOPSOIL TYPE 'A'.
3. ALL LANDSCAPE PLANTING AREAS SHALL RECEIVE 3" UNIFORM DEPTH APPROVED BARK MULCH EXCEPT WHERE SHOWN WITH RIVER ROCK AND ONLY TREE PLANTING RINGS RECEIVE BARK MULCH.
4. ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT ·
01/14/2022


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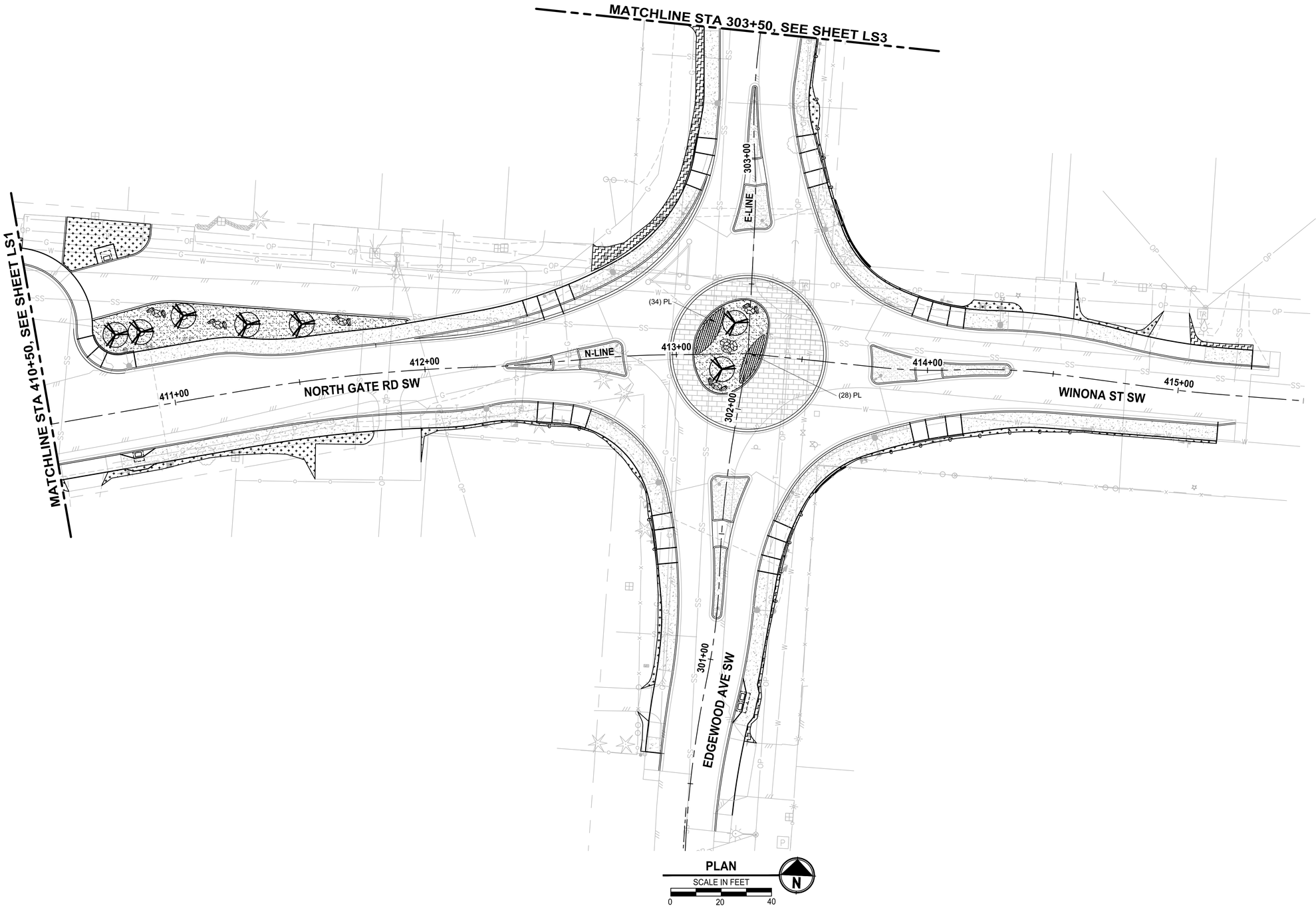
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN NORTH GATE RD SW

DRAWING NO. 112 OF 169
LS1


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Friday, January 14, 2022 8:53:23 AM
LAYOUT: LS1




## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
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- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

1. SEE SHEET LS15 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
2. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH APPROVED IMPORTED TOPSOIL TYPE 'A'.
3. ALL LANDSCAPE PLANTING AREAS SHALL RECEIVE 3" UNIFORM DEPTH APPROVED BARK MULCH EXCEPT WHERE SHOWN WITH RIVER ROCK AND ONLY TREE PLANTING RINGS RECEIVE BARK MULCH.
4. ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Friday, January 14, 2022 8:53:36 AM
LAYOUT: LS2

| | REVISIONS | DATE | BY |
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| | | | |

DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022

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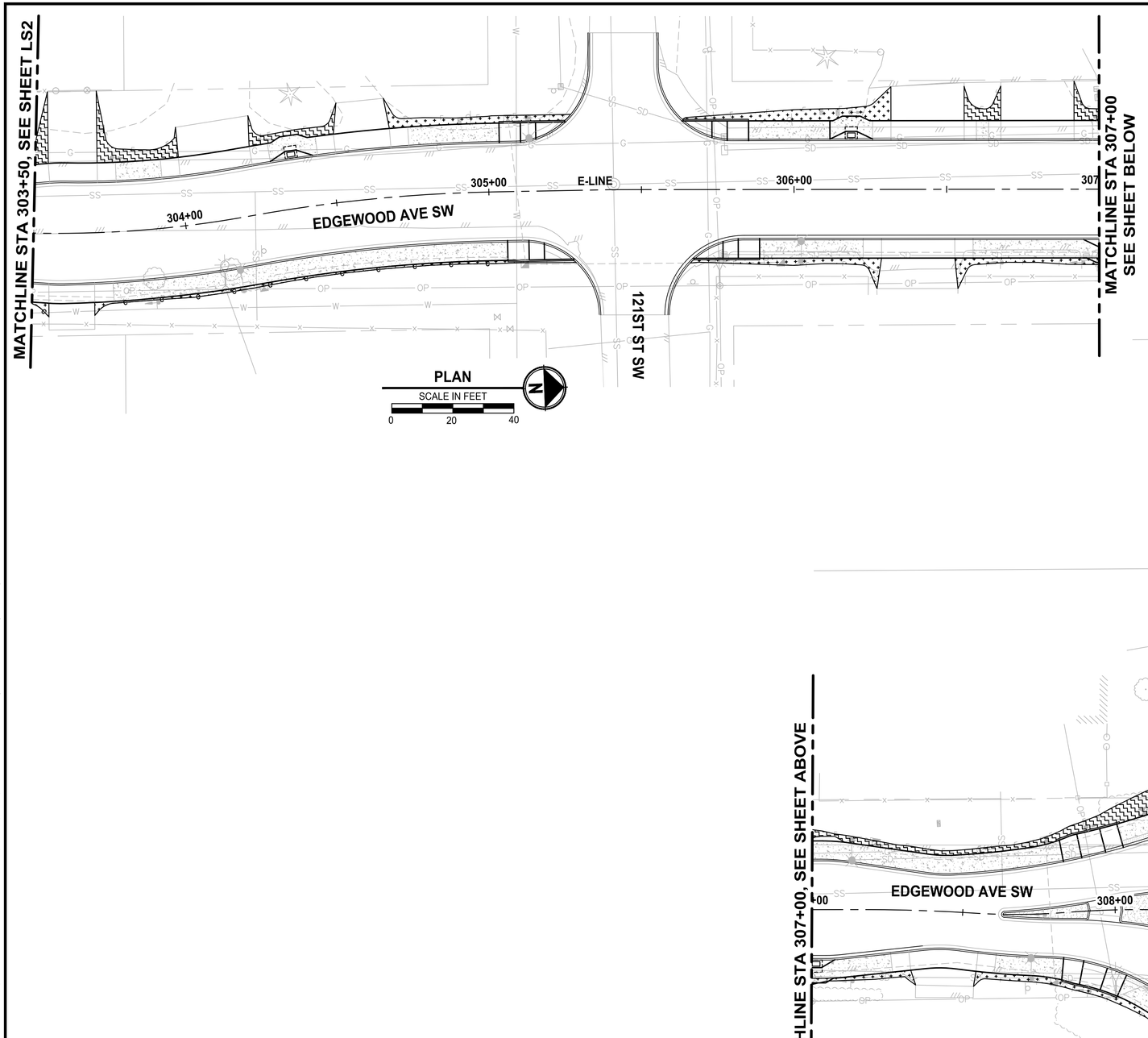
WWW.BCRADESIGN.COM

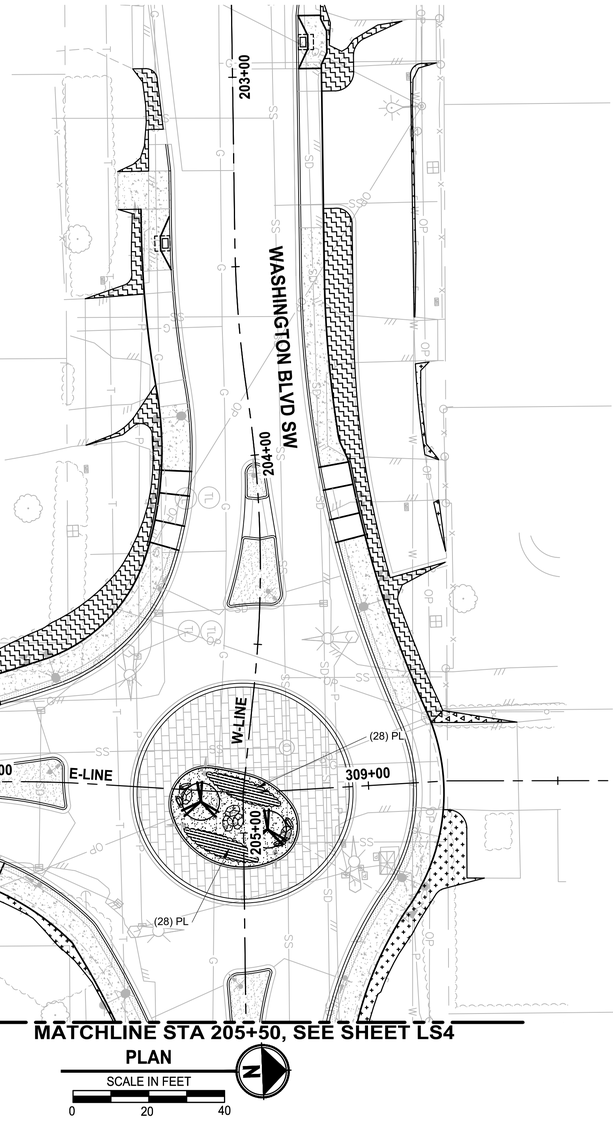
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN NORTH GATE RD SW & EDGEWOOD AVE SW

DRAWING NO. 113 OF 169

LS2




## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

1. SEE SHEET LS15 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
2. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH APPROVED IMPORTED TOPSOIL TYPE 'A'.
3. ALL LANDSCAPE PLANTING AREAS SHALL RECEIVE 3" UNIFORM DEPTH APPROVED BARK MULCH EXCEPT WHERE SHOWN WITH RIVER ROCK AND ONLY TREE PLANTING RINGS RECEIVE BARK MULCH.
4. ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Friday, January 14, 2022 8:54:00 AM
LAYOUT: LS3

| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO No. 4424 EXP. 12/06/2023 LANDSCAPE ARCHITECT
01/14/2022

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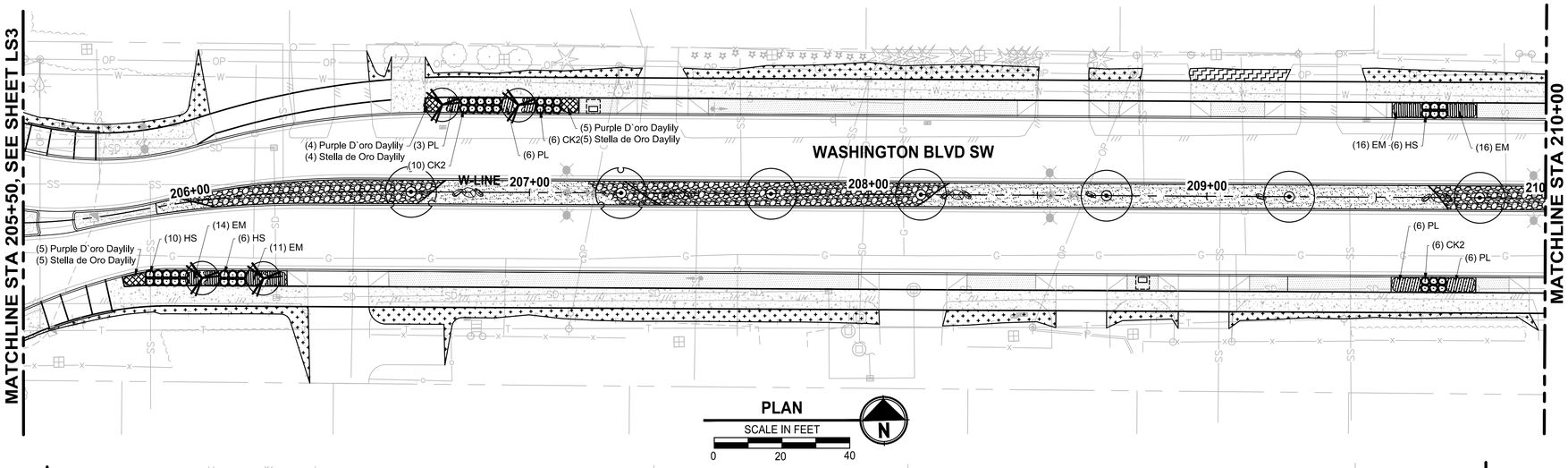
P 253.627.4367
WWW.BCRADESIGN.COM

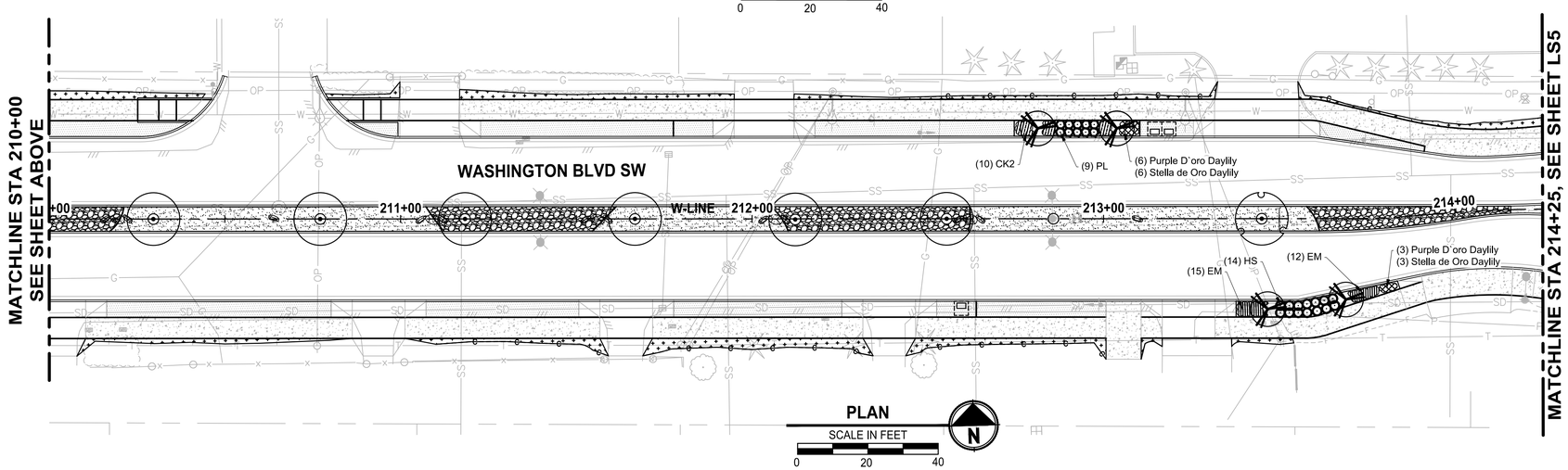
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN EDGEWOOD AVE SW & WASHINGTON BLVD SW

DRAWING NO. 114 OF 169

LS3




## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
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## RESTORATION LEGEND:

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- 2" TOPSOIL TYPE A AND 3" BARK MULCH

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LAYOUT: LS4

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · 24700 · LANDSCAPE ARCHITECT · 01/14/2022

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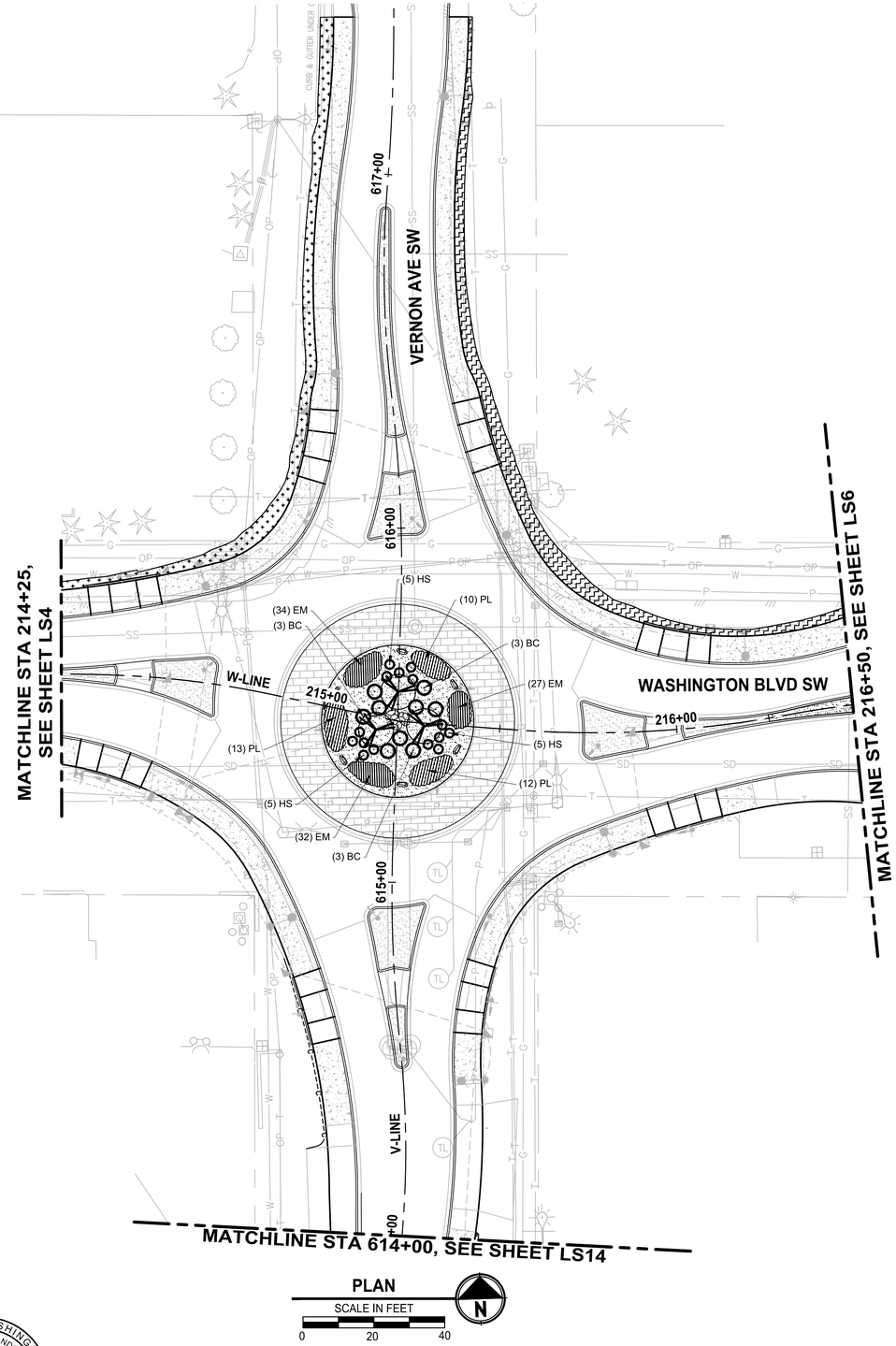
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 115 OF 169

LS4




PLAN

SCALE IN FEET

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## LANDSCAPE LEGEND:

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- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT ·
01/14/2022


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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 116 OF 169

LS5


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykot DATE: Friday, January 14, 2022 9:22:01 AM
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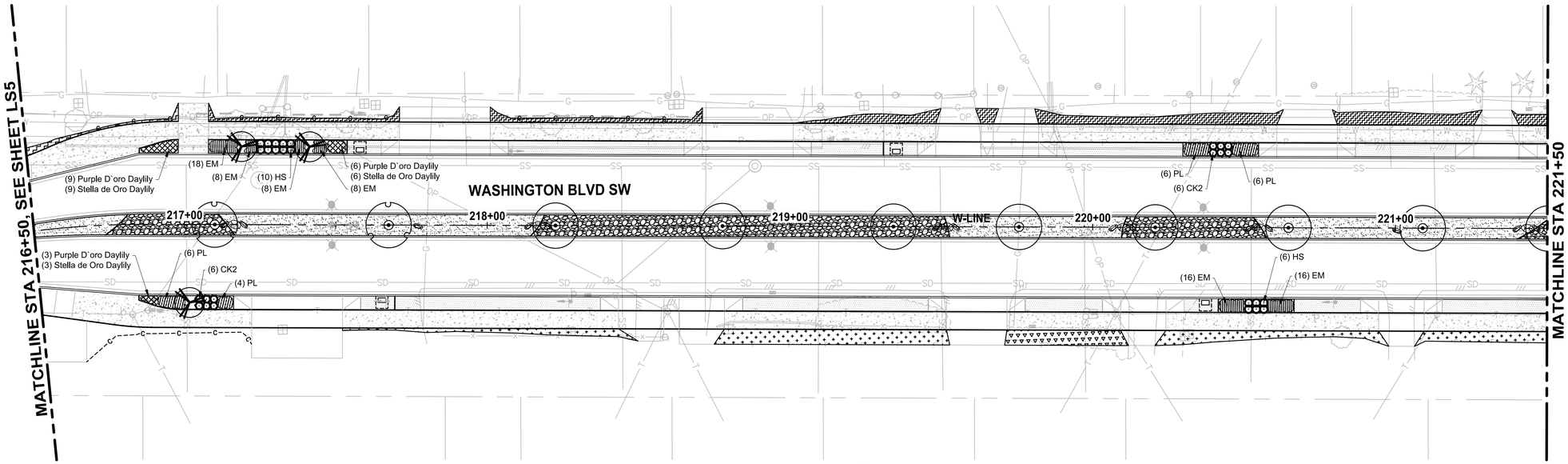


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SCALE IN FEET
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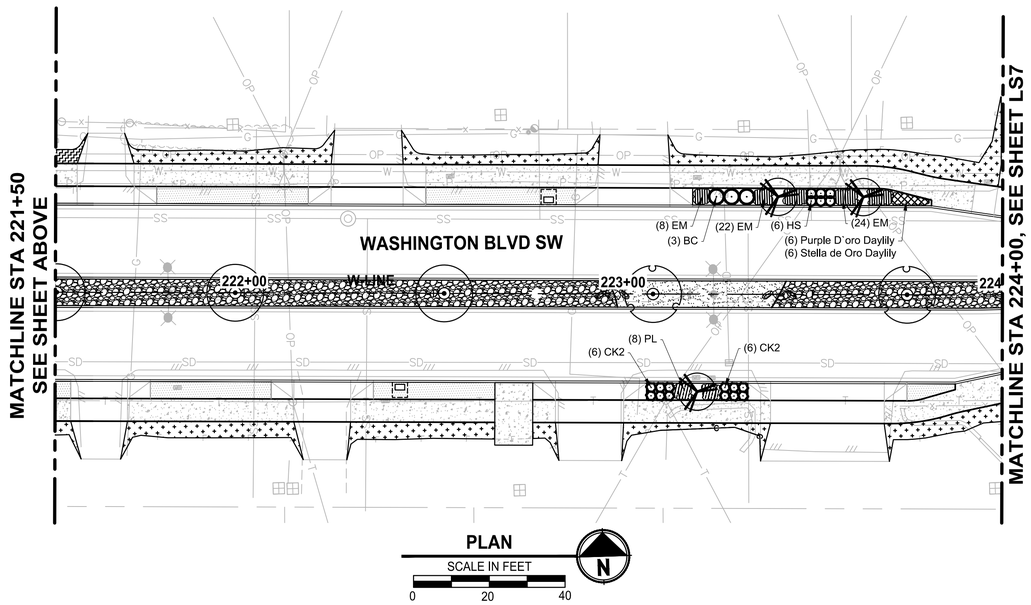


PLAN
SCALE IN FEET
0 20 40

## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

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2. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH APPROVED IMPORTED TOPSOIL TYPE 'A'.
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · NO. 4124 EXP. 12/09/2023 · LANDSCAPE ARCHITECT
01/14/2022

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WWW.PARAMETRIX.COM

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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 117 OF 169
LS6

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: toykokt DATE: Friday, January 14, 2022 8:55:02 AM
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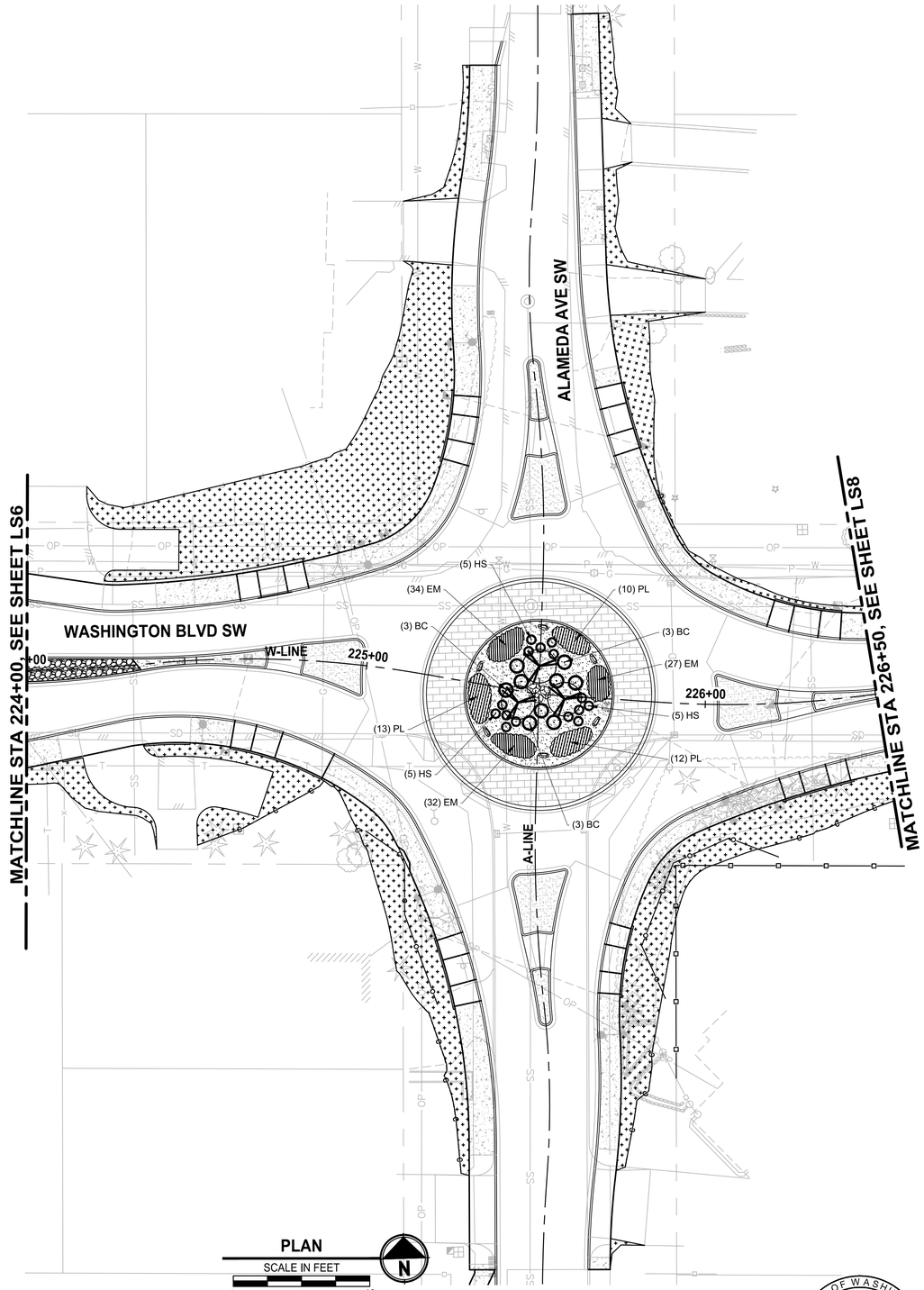


## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
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- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO NO. 4124 EXP. 12/09/2023 LANDSCAPE ARCHITECT
01/14/2022


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P 253.627.4367
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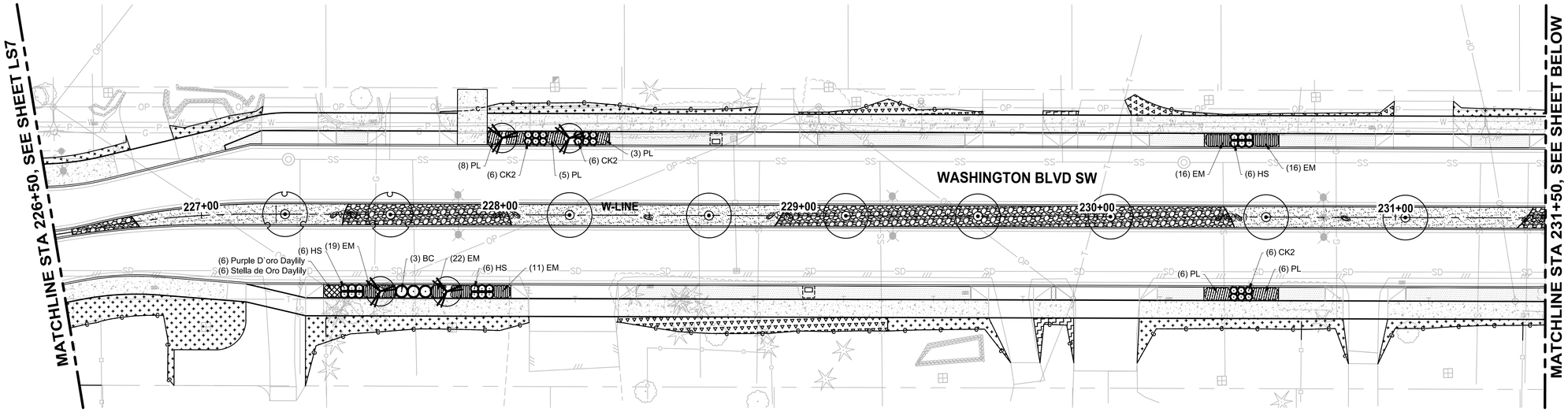
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 118 OF 169

**LS7**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CAD0\DWG PLOTTED BY: taylokat DATE: Friday, January 14, 2022 8:55:15 AM
LAYOUT: LS7




PLAN

SCALE IN FEET

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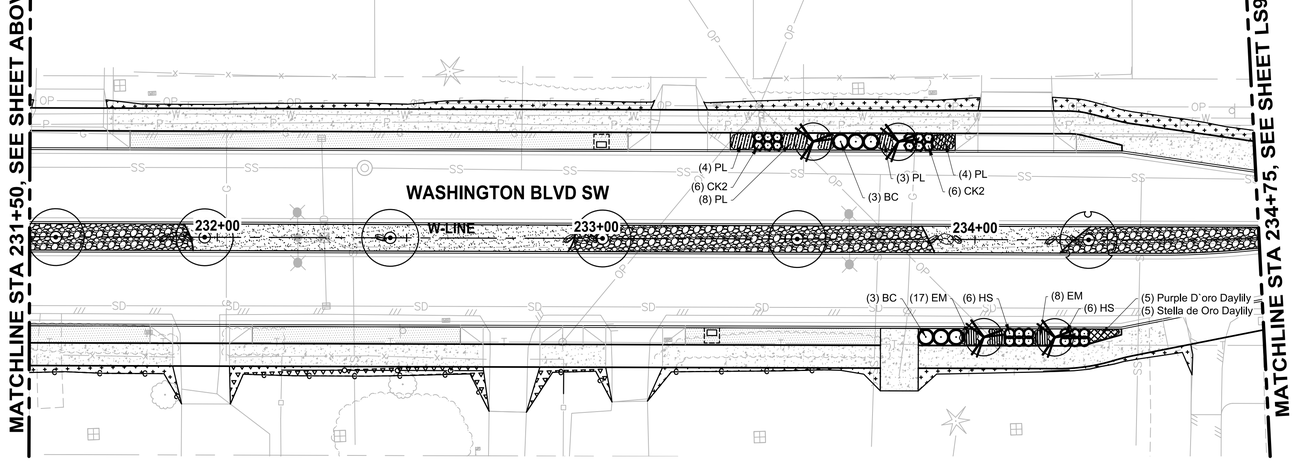


PLAN

SCALE IN FEET

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## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO NO. 1424 EXP. 12/09/2023 LANDSCAPE ARCHITECT
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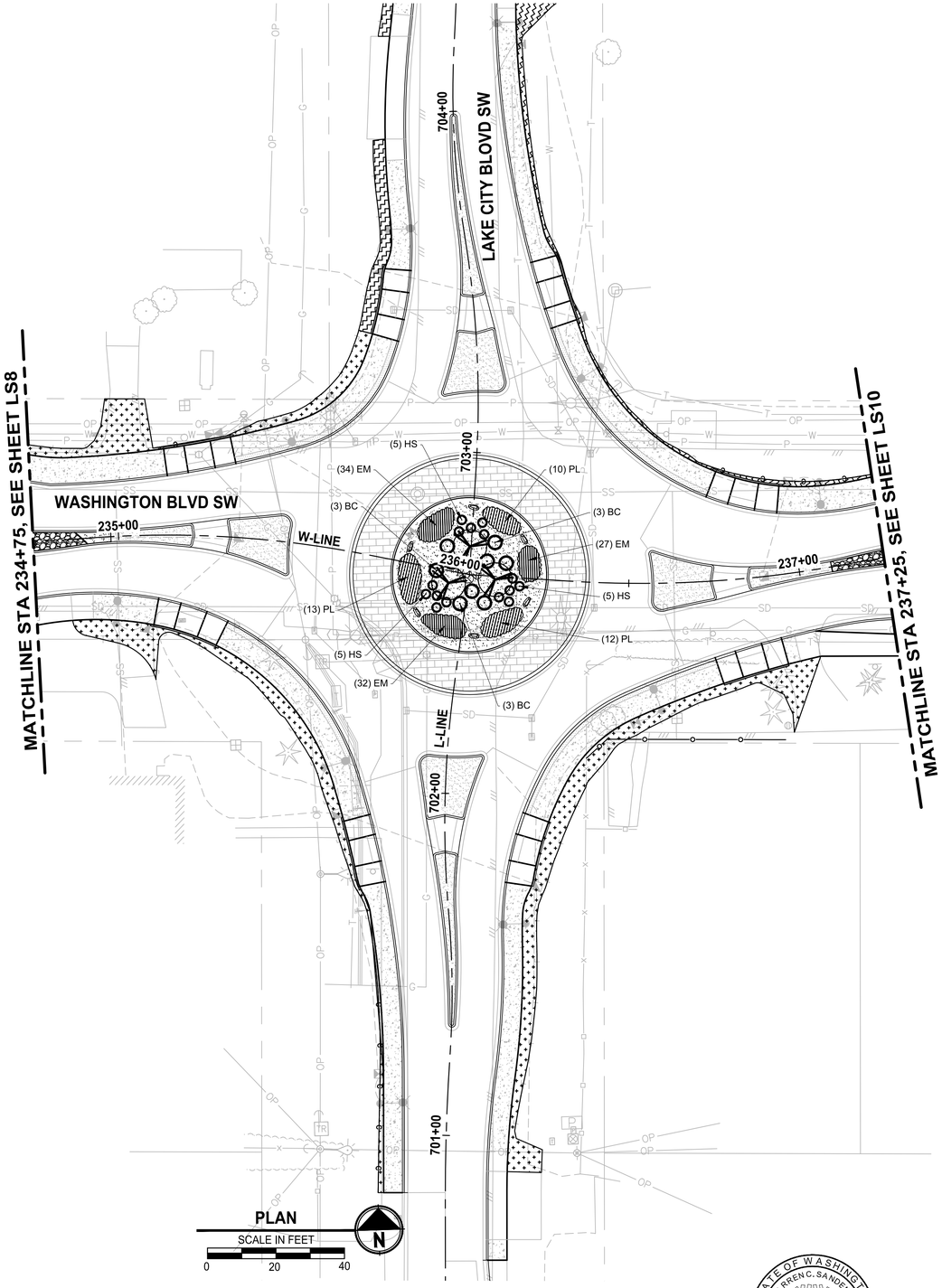
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 119 OF 169

LS8

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: LS8
PLOTTED BY: taylokot
DATE: Friday, January 14, 2022 8:55:39 AM

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · NO. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 120 OF 169

LS9


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Friday, January 14, 2022 8:55:52 AM
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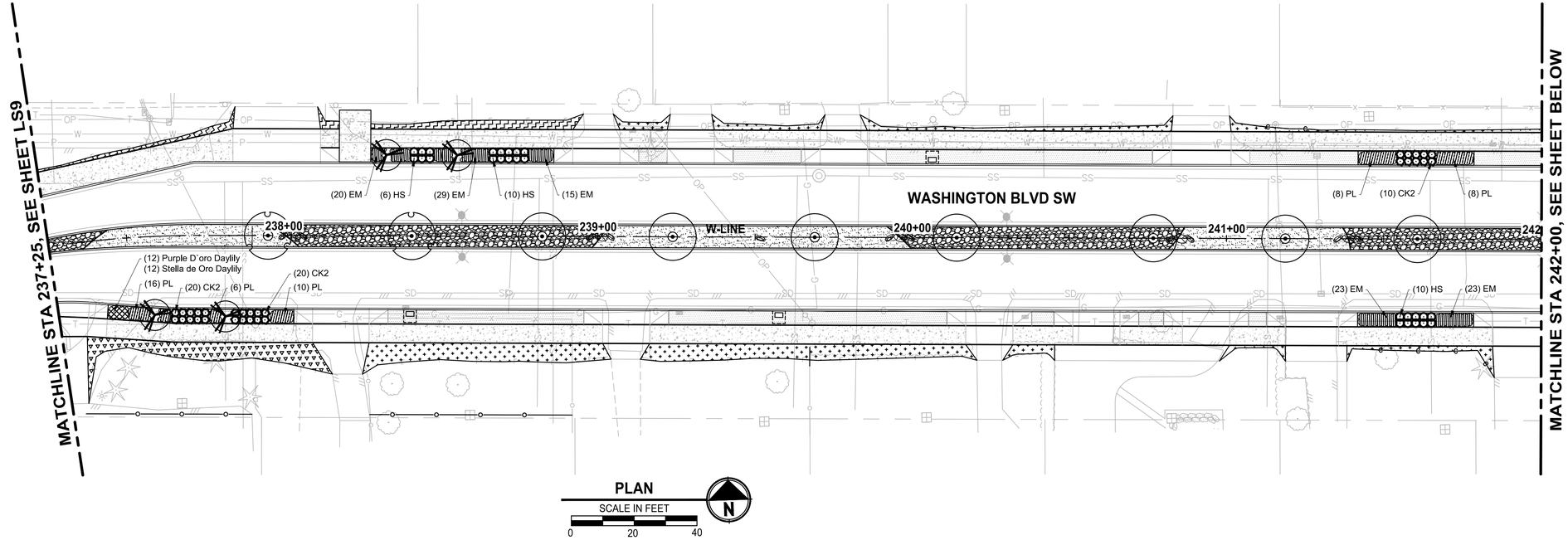


PLAN

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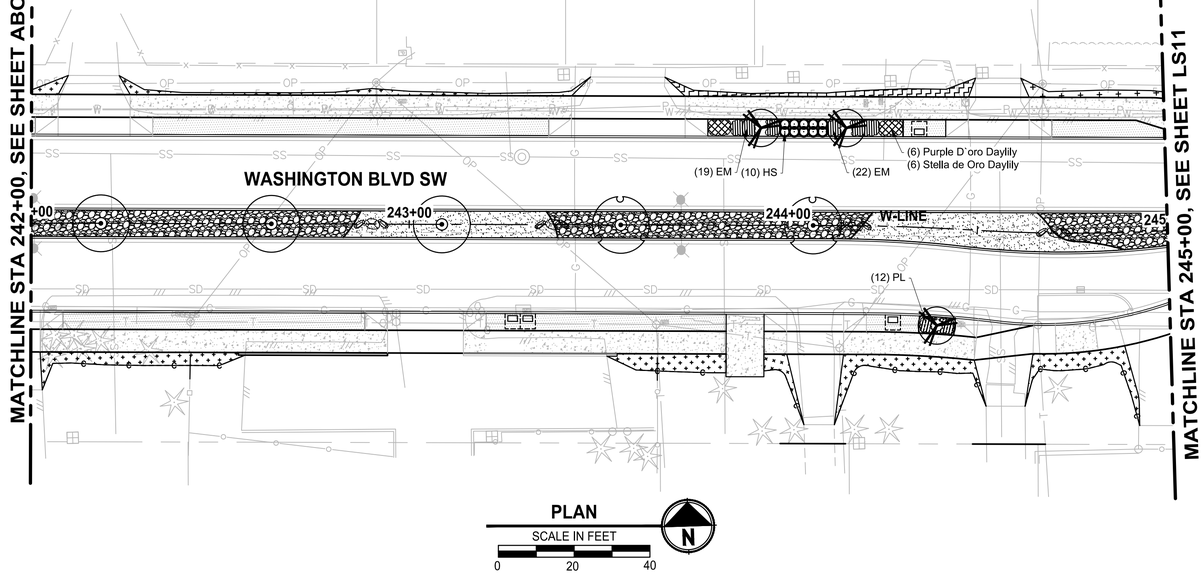


PLAN

SCALE IN FEET

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N

## LANDSCAPE LEGEND:

- UPRIGHT HORNBEAM - AS SHOWN
- GREEN PILLAR PIN OAK - AS SHOWN
- SPIRE CHERRY - AS SHOWN
- CRIMSON POINT PLUM - AS SHOWN
- COMPACT CORAL BARBERRY - @ 4' O.C.
- KELSEY REDTWIG DOGWOOD - @ 2.5' O.C.
- BLUE OAT GRASS - @ 2.5' O.C.
- DAYLILY MIX - @ 1.5' O.C.
- MEDITERRANEAN PINK HEATH - @ 1.5' O.C.
- MOUNT VERNON ENGLISH LAUREL - @ 2.5' O.C.
- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

1. SEE SHEET LS15 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
2. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH APPROVED IMPORTED TOPSOIL TYPE 'A'.
3. ALL LANDSCAPE PLANTING AREAS SHALL RECEIVE 3" UNIFORM DEPTH APPROVED BARK MULCH EXCEPT WHERE SHOWN WITH RIVER ROCK AND ONLY TREE PLANTING RINGS RECEIVE BARK MULCH.
4. ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS01-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/08/2023 · LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME

**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

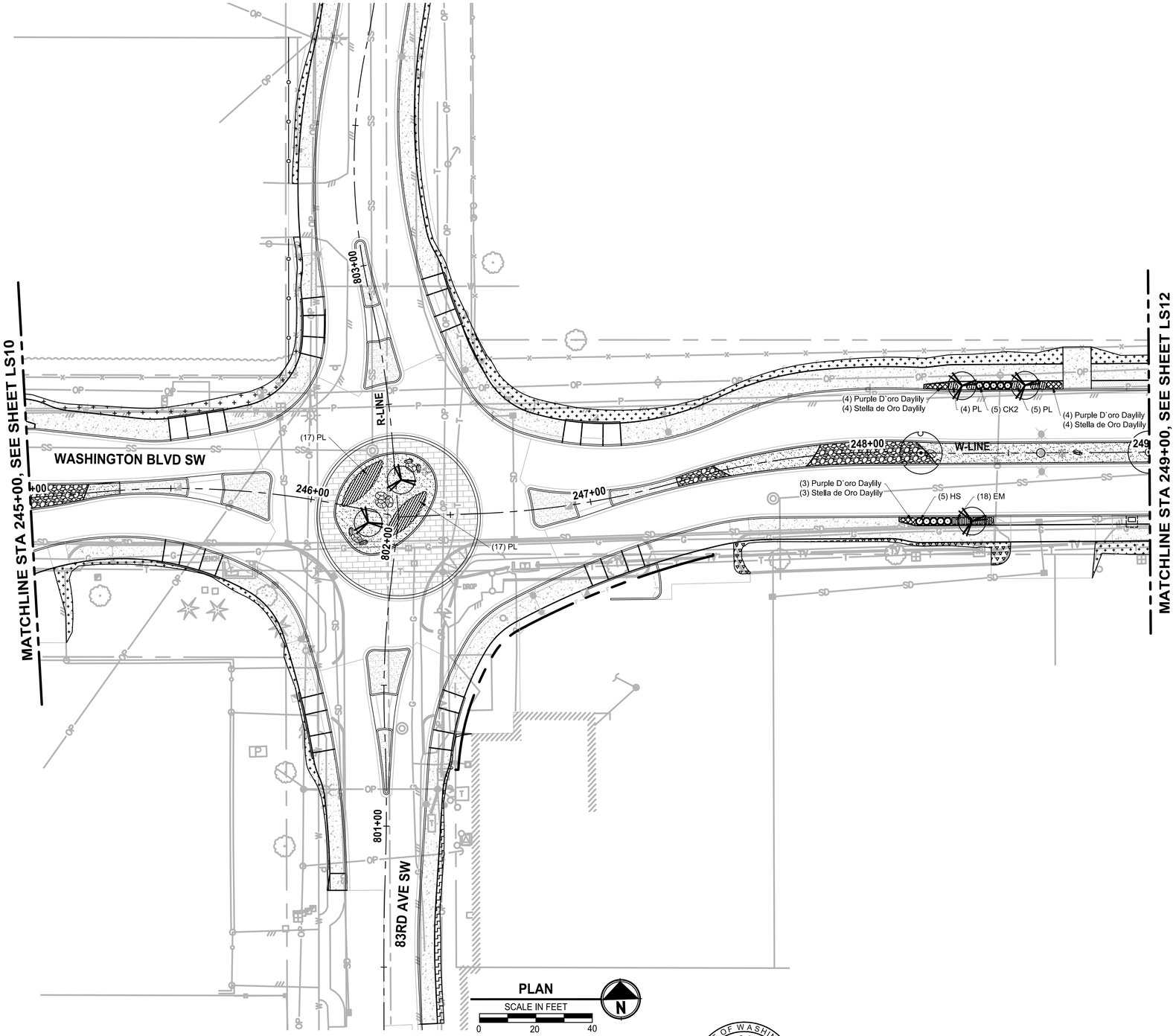
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 121 OF 169

**LS10**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Friday, January 14, 2022 8:56:16 AM LAYOUT: LS10




## LANDSCAPE LEGEND:

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- GREEN PILLAR PIN OAK - AS SHOWN
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- DAYLILY MIX - @ 1.5' O.C.
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- 4"-6" RIVER ROCK COBBLES 12" DEPTH
- 1"-2" RIVER ROCK 4" DEPTH
- 2'-3' ROUNDED RIVER ROCK BOULDERS. SEE LS15, DTL 4.

## RESTORATION LEGEND:

- 2" DEPTH CRUSHED SURFACING TOP COURSE. BLEND TO EXISTING
- SEEDING, FERTILIZING, AND MULCHING (HYDROSEED)
- 2" TOPSOIL TYPE A AND 3" BARK MULCH

## NOTES:

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| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS11-12
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/09/2023 · LANDSCAPE ARCHITECT
01/14/2022


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WWW.BCRADESIGN.COM

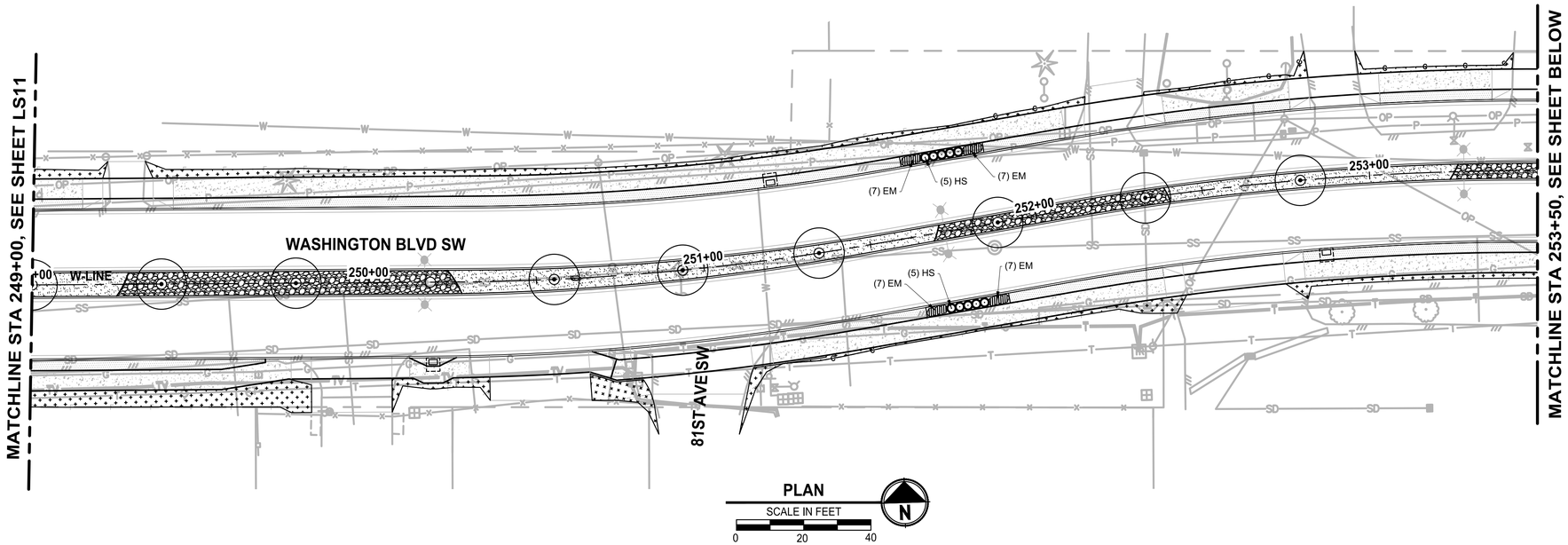

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 122 OF 169

LS11


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Friday, January 28, 2022 9:39:40 AM LAYOUT: LS11

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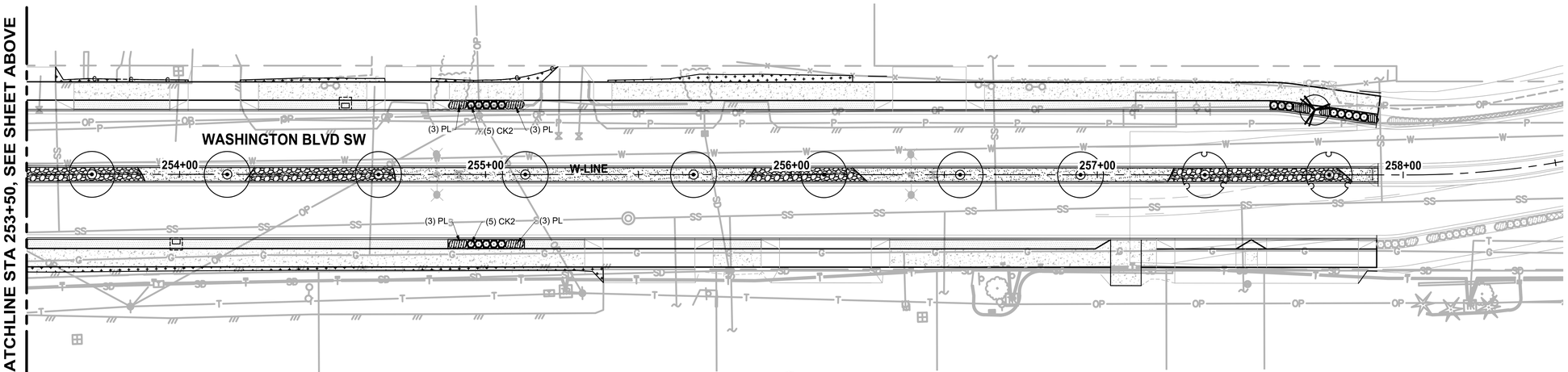


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SCALE IN FEET
0 20 40

## LANDSCAPE LEGEND:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS11-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · NO. 24424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022

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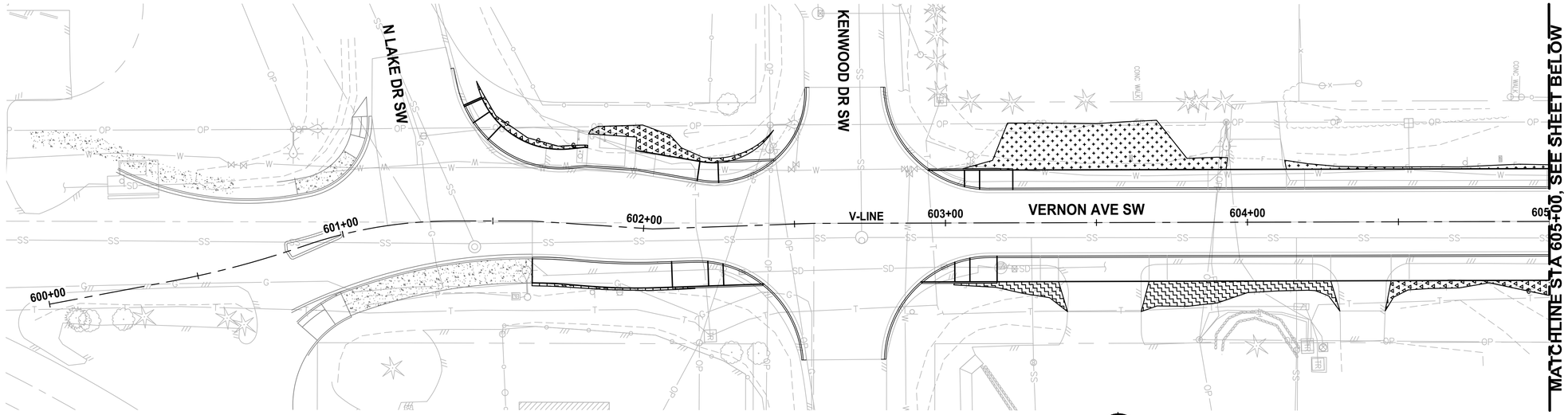
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN WASHINGTON BLVD SW

DRAWING NO. 123 OF 169
**LS12**

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: LS12
PLOTTED BY: taylokat DATE: Friday, January 14, 2022 8:56:49 AM

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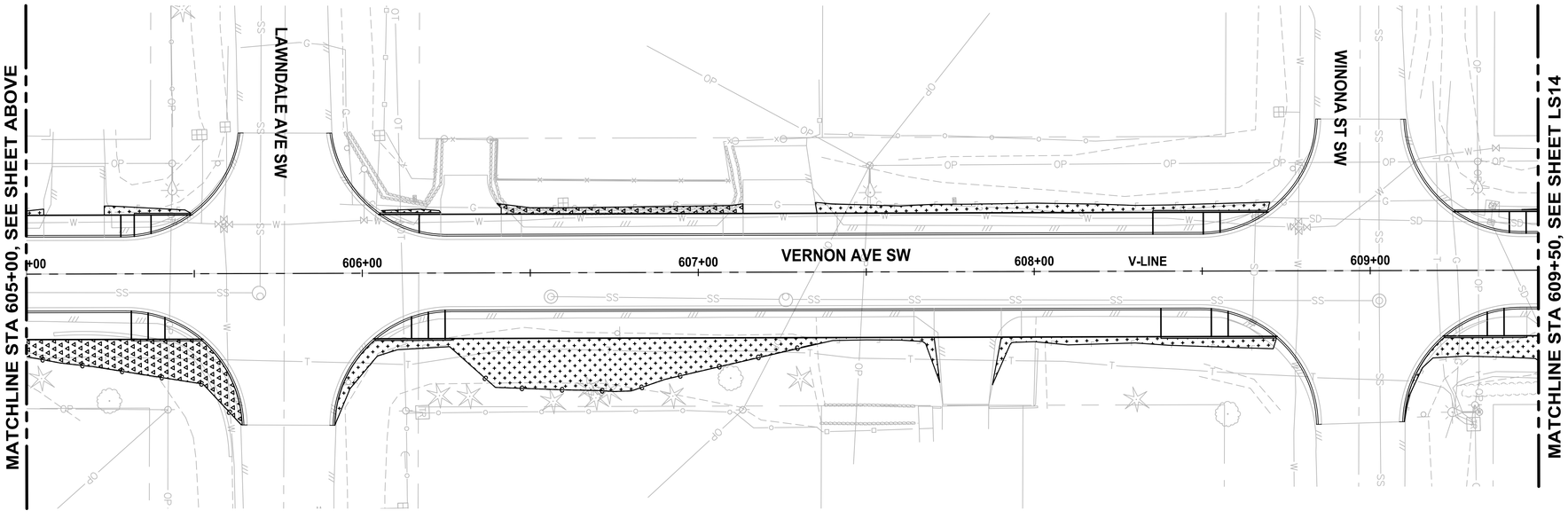


PLAN
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0 20 40

## LANDSCAPE LEGEND:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS13-16
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4423 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022

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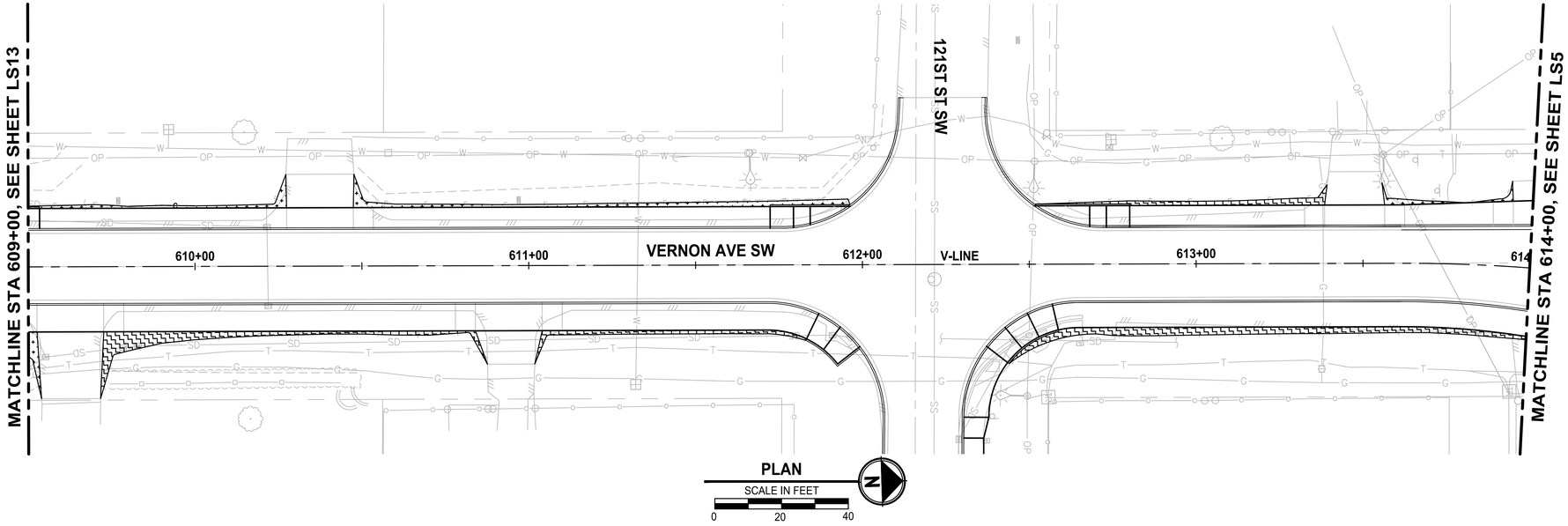
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN VERNON AVE SW

DRAWING NO. 124 OF 169
LS13

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Friday, January 28, 2022 9:33:11 AM
LAYOUT: LS13

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SCALE IN FEET

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## LANDSCAPE LEGEND:

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PLOTTED BY: taylokat DATE: Friday, January 14, 2022 8:57:07 AM
PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
LAYOUT: LS14

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-LS13-16
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

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PROJECT NAME

**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

LAKEWOOD, WASHINGTON

# LANDSCAPE PLAN VERNON AVE SW

DRAWING NO. 125 OF 169

**LS14**

## PLANT_SCHEDULE

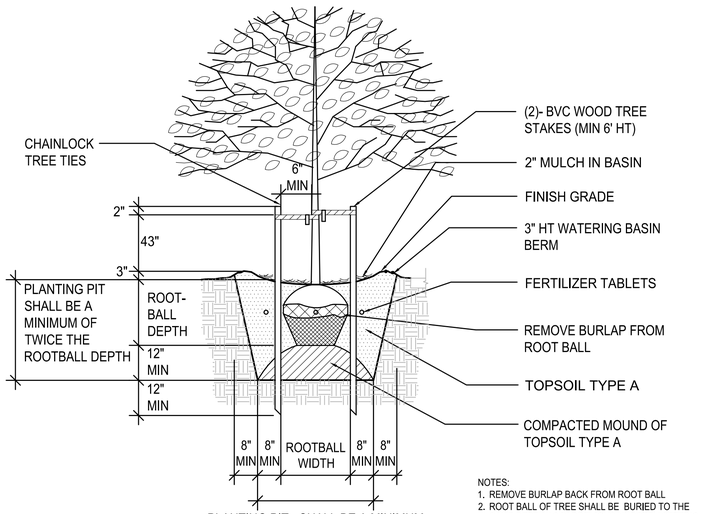
| TREES | CODE | QTY | BOTANICAL / COMMON NAME | CAL. |
|---|---|---|---|---|
| | CC | 60 | CARPINUS BETULUS `COLUMNARIS` / COLUMNAR EUROPEAN HORNBEAM | 3" CAL / B&B |
| | PX | 53 | PRUNUS X HILLIERI `SPIRE` / SPIRE CHERRY | 3" CAL / B&B |
| | QP | 17 | QUERCUS PALUSTRIS `PRINGREEN` TM / GREENPILLAR PIN OAK | 3" CAL / B&B |

| SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT |
|---|---|---|---|---|
| | BC | 39 | BERBERIS X STENOPHYLLA `CORALLINA COMPACTA` / COMPACT CORAL BARBERRY | #2 CONT |
| | CK2 | 131 | CORNUS SERICEA 'KELSEYI' / KELSEYI DWARF REDTWIG DOGWOOD | #2 CONT |
| | HS | 192 | HELICTOTRICHON SEMPERVIRENS / BLUE OAT GRASS | #1 CONT |

| GROUND COVERS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SPACING |
|---|---|---|---|---|---|
| | | | DAYLILY | | |
| | HP | 81 | HEMEROCALLIS X `PURPLE D`ORO` / PURPLE D`ORO DAYLILY | 1G | 50% @ 18" o.c. |
| | HO | 81 | HEMEROCALLIS X `STELLA DE ORO` / STELLA DE ORO DAYLILY | 1G | 50% @ 18" o.c. |
| | EM | 821 | ERICA X DARLEYENSIS `MEDITERRANEAN PINK` / MEDITERRANEAN PINK HEATH | 1G | 18" o.c. |
| | PL | 361 | PRUNUS LAUROCERASUS `MOUNT VERNON` / MOUNT VERNON LAUREL | #2 CONT | 30" o.c. |
| SEE SHEET | | 181 | 2'-3' ROUNDED RIVER BOULDERS. VARYING SIZES AND ORIENTATION SEE DETAIL #4 THIS | | |

## GENERAL LANDSCAPE NOTES:

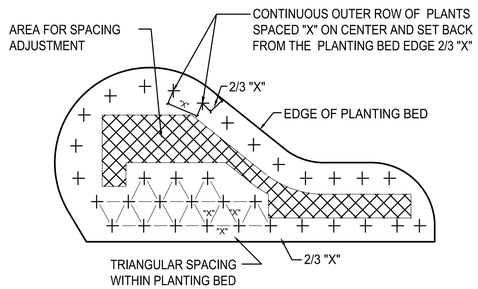
1. REFER TO THIS SHEET FOR PLANT INSTALLATION DETAILS.
2. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE/CITY.
3. CONTRACTOR IS REQUIRED TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR A THOROUGH CLEAN-UP FOR HIS/HER RESPECTIVE WORK, DAILY AND AT PROJECT CLOSE-OUT.
5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING IMPROVEMENTS. DAMAGE TO THE EXISTING IMPROVEMENTS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND/OR QUALIFIED INSTALLERS/TRADES ACCEPTABLE TO THE SOLE SATISFACTION OF THE CONSTRUCTION OBSERVER AND AT NO COST TO THE OWNER.
6. ALL LANDSCAPE SHRUB PLANTING AREAS SHALL RECEIVE 12" MIN. UNIFORM DEPTH IMPORTED TOPSOIL TYPE 'A'. MEDIAN TO RECEIVE TOPSOIL ONLY AT TREE PLANTING WELLS IN ACCORDANCE WITH TREE PLANTING DETAIL.
7. PLANT MATERIALS SHALL MEET STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARD (ANSI Z60.1) AND WASHINGTON STATE STANDARDS FOR NURSERY STOCK ORDER NO. 1627. ALL PLANT MATERIALS SHALL HAVE SUFFICIENT ROOT DEVELOPMENT TO ASSURE SURVIVAL AND HEALTHY GROWTH. CONTAINER GROWN PLANT MATERIALS ARE REQUIRED TO HAVE SUFFICIENT ROOT GROWTH TO HOLD THE SOIL INTACT WHEN REMOVED FROM THE CONTAINER, BUT SHALL NOT BE ROOT BOUND.
8. PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH PLAN CALL-OUTS AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUNDCOVER QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIC SPACING.
9. PRIOR TO BARK PLACEMENT, ALL SHRUB BED AREAS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE. FOLLOW ALL MANUFACTURER'S APPLICATION INSTRUCTIONS. PREEMERGENT HERBICIDE SHALL BE ELANCO XL2G OR APPROVED EQUAL.
10. MULCH SHALL BE INSTALLED TO DEPTH OF 3 INCHES IN ALL NEW PLANTING AREAS. PRIOR TO MULCH PLACEMENT GRADE SHALL BE BROUGHT TO A UNIFORM LINE WITH NO SURFACE IRREGULARITIES. WATERING BERMS AROUND PLANTS SHALL BE HAND COMPACTED AND OF A SMOOTH AND EVEN GRADE PRIOR TO MULCH PLACEMENT. MULCH SHALL BE WATER-COMPACTED UPON PLACEMENT.
11. NO SUBSTITUTIONS SHALL BE CONSIDERED FOR PLANTS OR OTHER MATERIALS DURING THE BIDDING PROCESS.
12. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE HAS BEEN GRANTED. OWNER SHALL THEN ASSUME ALL RESPONSIBILITIES FOR MAINTAINING ALL PLANTS IN A HEALTHY GROWING CONDITION FOR THE LIFE OF THIS PROJECT.
13. LANDSCAPE MATERIALS & QUANTITIES WILL BE FIELD ADJUSTED TO FIT ACTUAL CONDITIONS, IF NECESSARY. COORDINATE LANDSCAPE CONSTRUCTION AND REVIEWS W/ OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION INCLUDING CUT/FILL AREAS SHOWN. ALL AREAS DISTURBED AND NOT SPECIFICALLY SHOWN AS RESTORATION TYPE SHALL MATCH EXISTING CONDITIONS.




PLANTING PIT - SHALL BE A MINIMUM OF TWICE THE ROOTBALL WIDTH AT BASE OF PIT & 3 TIMES ROOTBALL WIDTH AT FINISH GRADE

NOTES:
1. REMOVE BURLAP BACK FROM ROOT BALL
2. ROOT BALL OF TREE SHALL BE BURIED TO THE SAME DEPTH AS IN PREVIOUS NURSERY SETTING
3. CUT BOUND ROOTS TO ENCOURAGE GROWTH
4. REMOVE ANY SOIL AND/OR MULCH AWAY FROM TREE CROWN AFTER INSTALLATION

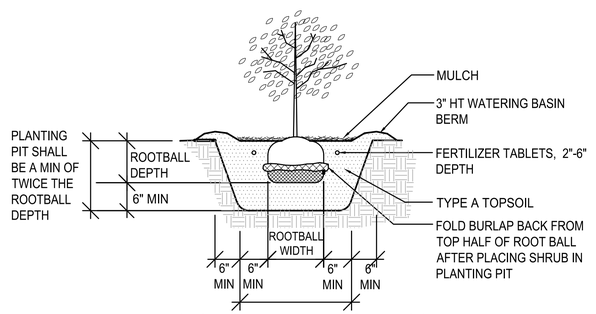
**TREE PLANTING W/TREE WELL**
**DETAIL** 1
NOT TO SCALE -




SPECIFIED PLANT SPACING="X"

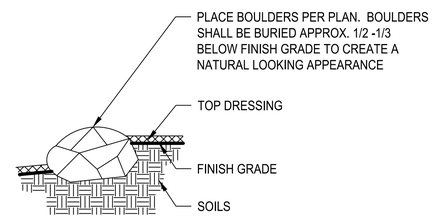
INDIVIDUAL PLANTS REPRESENTED AS: +

**PLANT SPACING DETAIL**
**DETAIL** 2
NOT TO SCALE -




PLANTING PIT SHALL BE A MINIMUM OF 2 TIMES THE ROOT- BALL WIDTH AT BASE OF PIT & 3 TIMES ROOTBALL WIDTH AT FINISH GRADE

**CONTAINER SHRUB PLANTING**
**DETAIL** 3
NOT TO SCALE -




NOTES:
1. ALL BOULDERS SHALL BE MIN. 2'-0" FROM BACK OF CURB.
2. THE TOP OF ALL BOULDERS WITHIN MEDIAN SHALL BE LESS THAN 18" ABOVE TOP OF CURB.
3. BOULDER CLUSTERS TO BE PLACED IRREGULARLY AND ARE VARYING HEIGHTS

**BOULDER PLACEMENT**
**DETAIL** 4 TYP
NO SCALE

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS13-16
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
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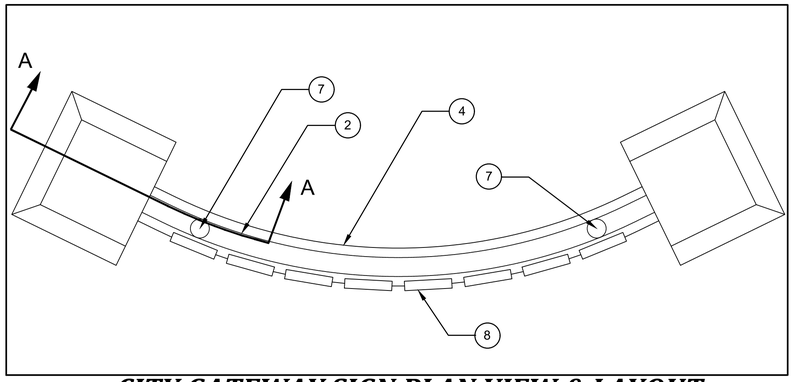
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# LANDSCAPE SCHEDULE, NOTES, & DETAILS

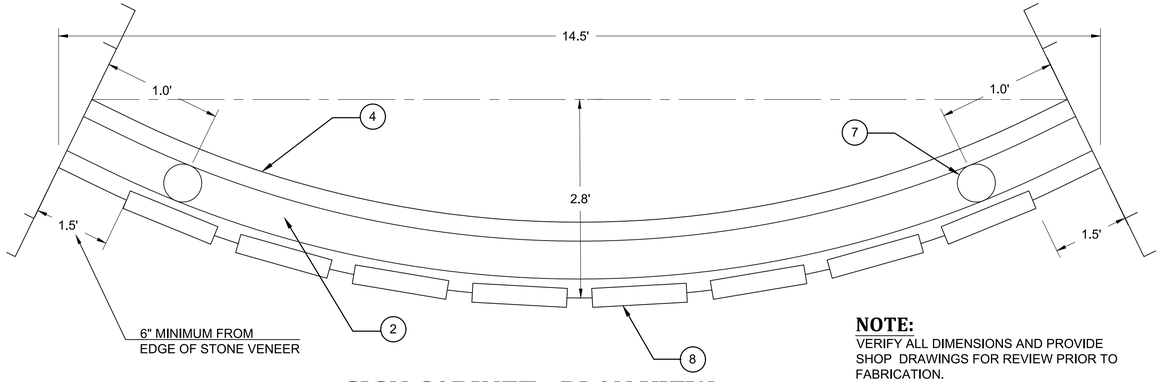
DRAWING NO. 126 OF 169
**LS15**


PATH: U:\PSO\Projects\Clients\3047--City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Friday, January 14, 2022 8:57:08 AM LAYOUT: LS15




## CITY GATEWAY SIGN PLAN VIEW & LAYOUT

FULL SIZE SCALE
1"=2'



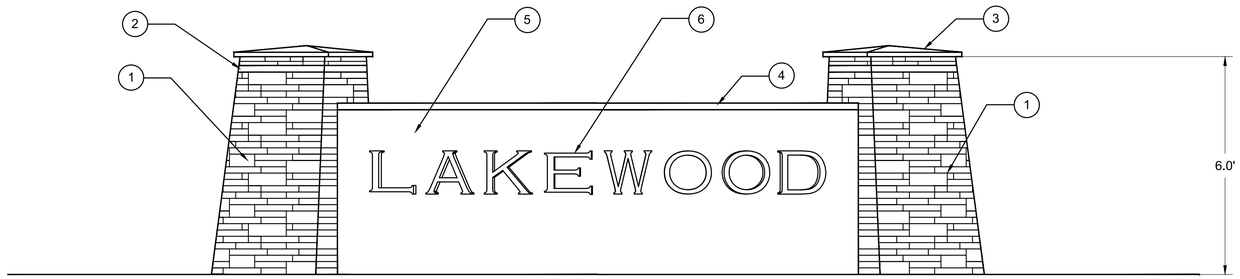

## SIGN CABINET - PLAN VIEW

FULL SIZE SCALE
1"=2'

**NOTE:**
VERIFY ALL DIMENSIONS AND PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

### SECTIONS AND PLAN VIEWS NOTES

1 WALL CAP - 90 MM, COLOR SUMMIT BLEND
2 SIGN CABINET
3 WALL BLOCK, MEDITERRANEAN, COLOR SUMMIT BLEND, VERTICAL INSTALLATION
4 ALUMINUM SIGN CABINET CAP, MATCH COLUMN CAP
5 SIGN CABINET FOUNDATION, 2 #4 HORIZONTAL
6 6" CSTC
7 SIGN CABINET SUPPORT POSTS - 3" SCH. 40 ROUND STEEL PIPE
8 "LAKEWOOD" LETTERING BOOKMAN OLDSTYLE BOLD FONT
SPACE LETTERING EVENLY ALONG FACE OF SIGN CABINET
9 3" BARK MULCH
10 2' TOP SOIL TYPE A
11 BRICK VENEER BAND
12 ALUMINUM COLUMN CAP
13 COMPACTED SUBGRADE
14 COMMERCIAL C.I.P. CONCRETE COLUMN, #4 HOOPS @ 18" O.C. & #4 VERTICAL AT CORNERS
15 STONE VENEER
16 COMMERCIAL C.I.P. CONCRETE 2' DIAMETER 3' DEEP

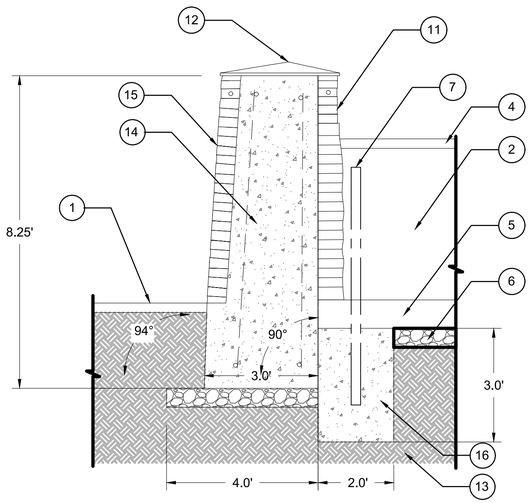



## CITY GATEWAY SIGN ELEVATION

FULL SIZE SCALE
1"=2'

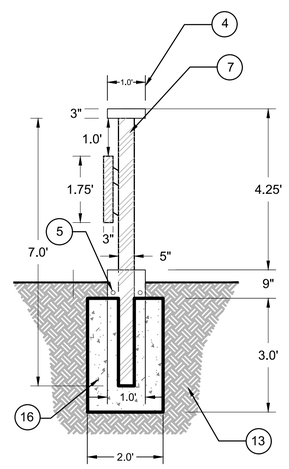
### MONUMENT SIGN ELEVATION NOTES

1 CULTURED STONE VENEER ECHO RIDGE SOUTHERN LEDGESTONE
2 BRICK VENEER BAND
3 COLUMN CAP, MATCH COLOR, TEXTURE OF SIGN CAP
4 WALL BLOCK SUMMIT BLEND. 50% 90 MM AND 50% 135 MM SIZES - SEE PLANTER WALL PATTERN, 90 MM WALL CAP
5 SIGN CABINET: 5" THICK BY 4' HEIGHT CABINET, FACE 0.125 MM ALUMINUM WITH OUT SEAMS, SIDE TOP, BOTTOM AND REAR, 0.090 MM INSIDE; REAR THREE PANELS FOR ACCESS. NO EXPOSED FASTENERS; COLORS - 1001 BEIGE
6 REVERSE PAN CHANNEL LETTERS "LAKEWOOD" IN BOOKMAN BOLD, 3" DEEP AND INTERNALLY ILLUMINATED . LED MINIMUM OF 200 NIT BRIGHTNESS. FACES OF LETTERS 0.125 ALUMINUM AND RETURNS 0.090. PIN MOUNTED APPROXIMATELY 1 $\frac{1}{2}$" OFF THE FACE; COLOR - 8028 (BROWN)



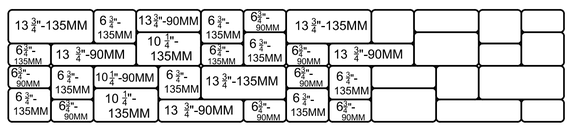

## SECTION A-A

FULL SIZE SCALE
1"=2'




## SIGN CABINET FOUNDATION DETAIL

FULL SIZE SCALE
1"=2'




## PLANTER WALL PATTERN

FULL SIZE SCALE
1"=1'

**NOTE:**
WALL BLOCK WITH 50% 90 MM UNITS AND 50% 135 MM UNITS.

| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-LS13-16
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · No. 1424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# CITY GATEWAY SIGN DETAILS

DRAWING NO.
127 OF 169

**LS16**


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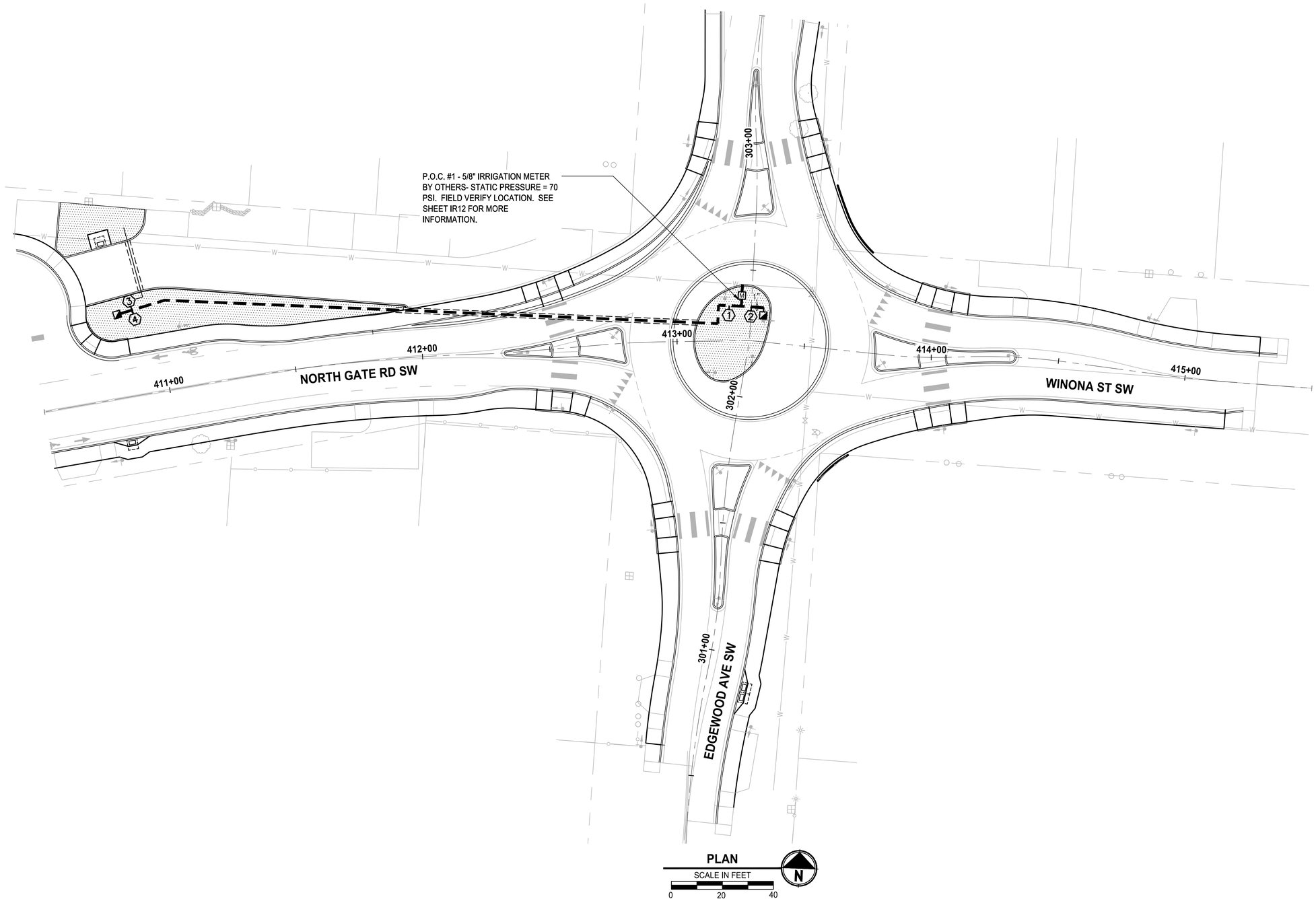
LAYOUT: LS16




PLAN

SCALE IN FEET

0 20 40

N

## LEGEND

- M — PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- X — PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

1. REFER TO IR12 & IR13 FOR CONSTRUCTION NOTES, DETAILS, AND IRRIGATION EQUIPMENT LISTS. REFER TO SEPARATE WRITTEN SPECIFICATIONS FOR DETAILED IRRIGATION SYSTEM INFORMATION.
2. STATIC PRESSURE REPORTED = 70 PSI. CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. DECODER WIRES TO BE EXTENDED TO ALL VALVE MANIFOLD ASSEMBLIES.
4. PLAN IS DIAGRAMMATIC. VARIATION IN HEAD LOCATIONS ON PLANS IS FOR THE SAKE OF GRAPHIC CLARITY. LOCATION OF IRRIGATION MAINLINE, LATERALS & SLEEVING ARE SCHEMATIC ONLY AND SHALL OCCUR IN PLANTING AREAS.
5. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE DESIGNER RESERVES THE RIGHT TO MAKE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST NOZZLE & HEAD POSITIONS AND ADD OR DELETE HEADS OR TUBING AS NECESSARY DEPENDING ON ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY DESIGN PRESSURES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.

**IRRIGATION PLAN IS DIAGRAMMATIC ONLY**

ALL IRRIGATION PIPING AND EQUIPMENT SHALL BE PLACED IN MEDIANS AND PLANTED AREAS AND SLEEVED UNDER ALL HARD SURFACING.


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Thursday, January 13, 2022 3:49:20 PM
LAYOUT: IR1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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

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PROJECT NAME

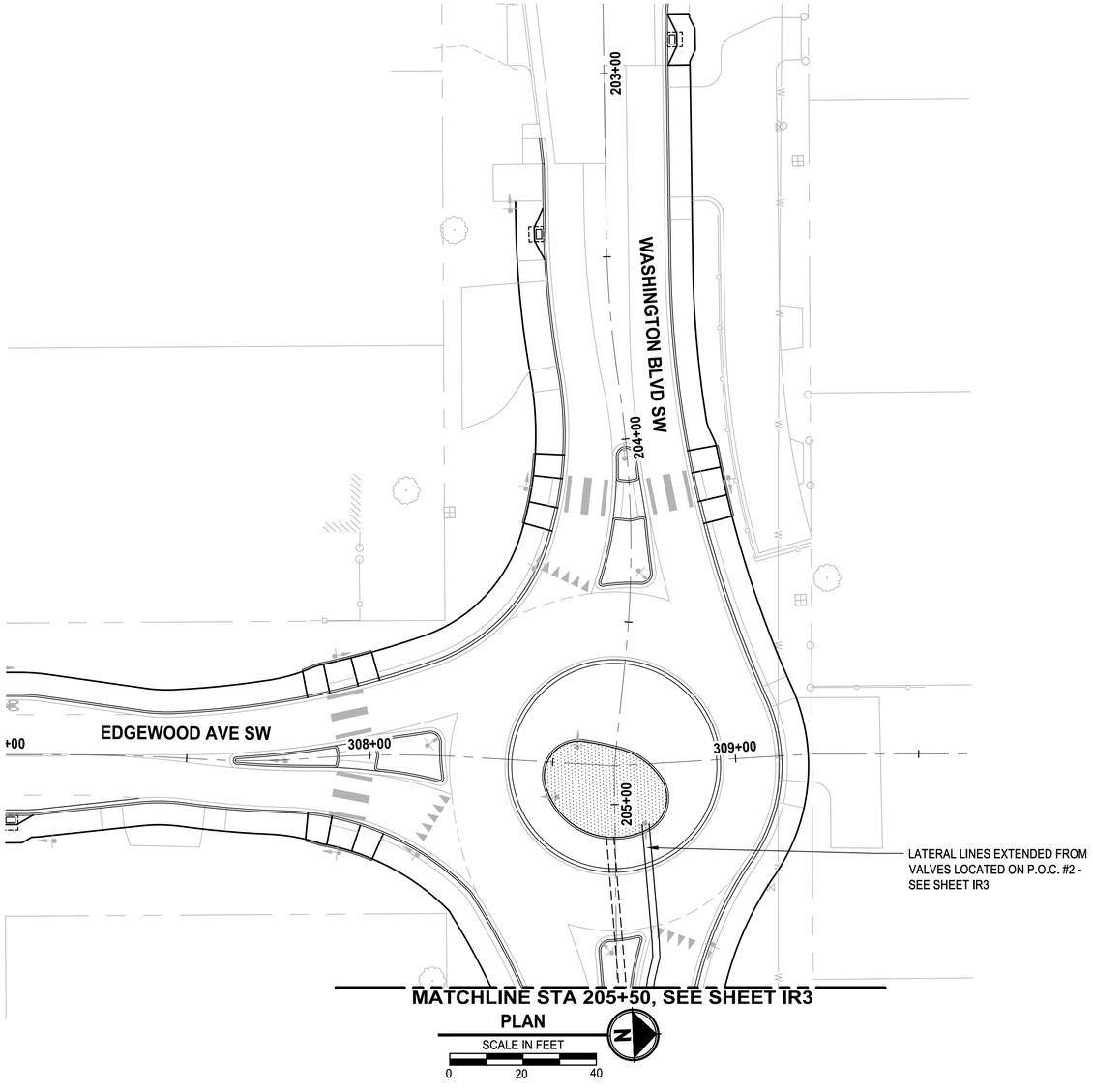
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

LAKEWOOD, WASHINGTON

# IRRIGATION PLAN NORTH GATE RD SW

DRAWING NO. 128 OF 169

**IR1**




## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
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- ISOLATION VALVE
- MANUAL DRAIN VALVE

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PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Thursday, January 13, 2022 3:49:30 PM
LAYOUT: IR2

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
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CITY OF LAKEWOOD WA 1996

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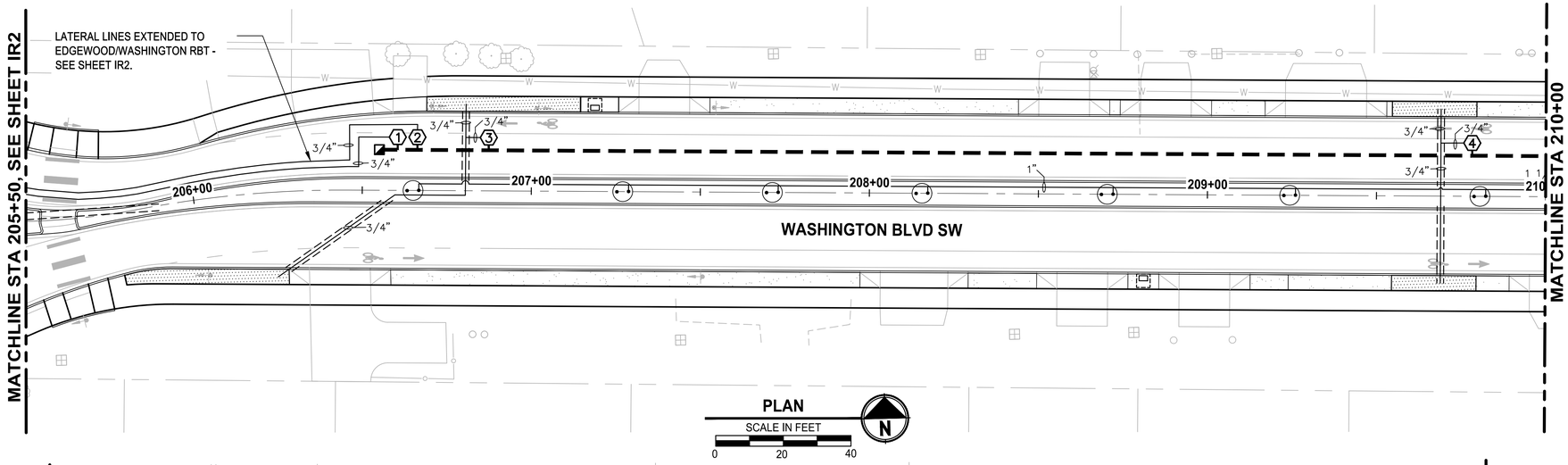
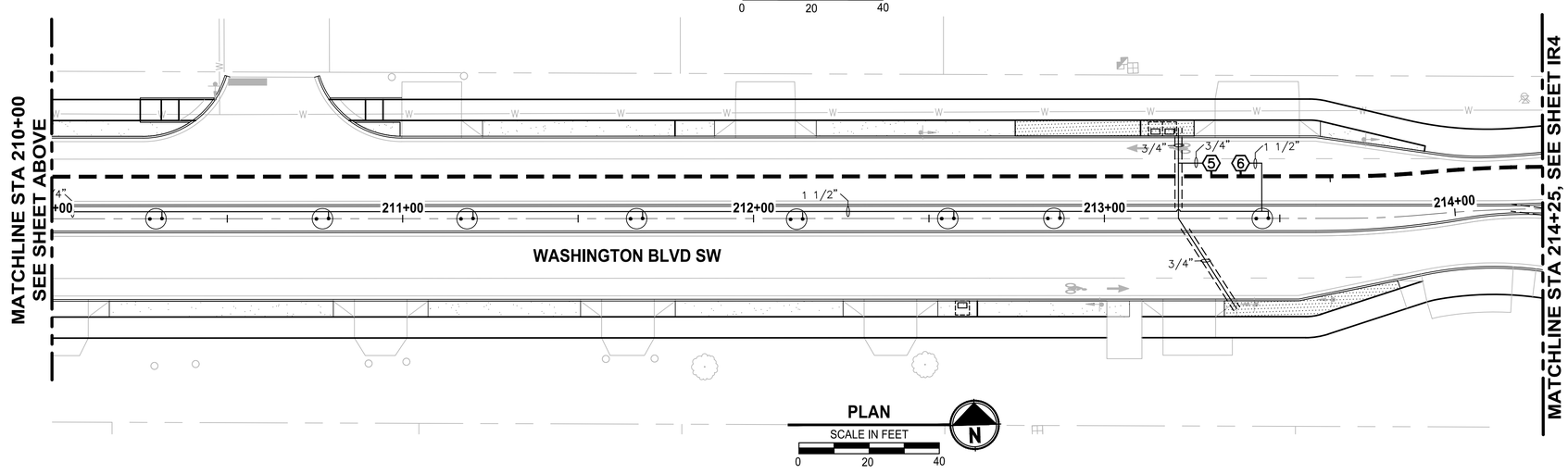
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO.
129 OF 169
**IR2**




## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
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- PROPOSED ZONE VALVE
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## SHEET NOTES:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
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JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO NO. 1424 EXP. 12/06/2023 LANDSCAPE ARCHITECT
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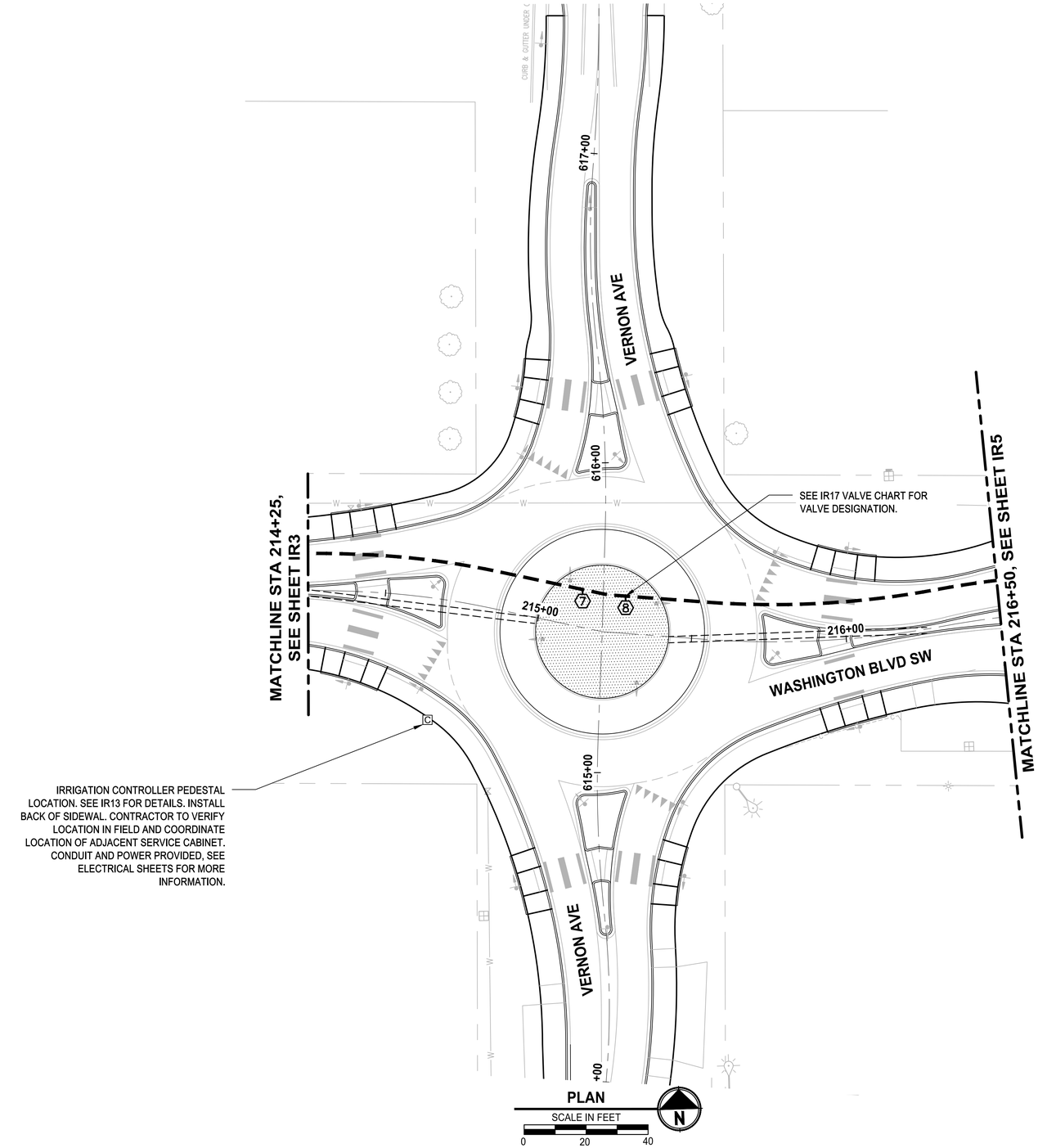
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 130 OF 169

**IR3**


LAYOUT: IR3 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 13, 2022 3:49:50 PM




IRRIGATION CONTROLLER PEDESTAL LOCATION. SEE IR13 FOR DETAILS. INSTALL BACK OF SIDEWAL. CONTRACTOR TO VERIFY LOCATION IN FIELD AND COORDINATE LOCATION OF ADJACENT SERVICE CABINET. CONDUIT AND POWER PROVIDED, SEE ELECTRICAL SHEETS FOR MORE INFORMATION.

## LEGEND

- M — PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- X — PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

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LAYOUT: IR4

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
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CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO No. 1424 EXP. 12/06/2023 LANDSCAPE ARCHITECT
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2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
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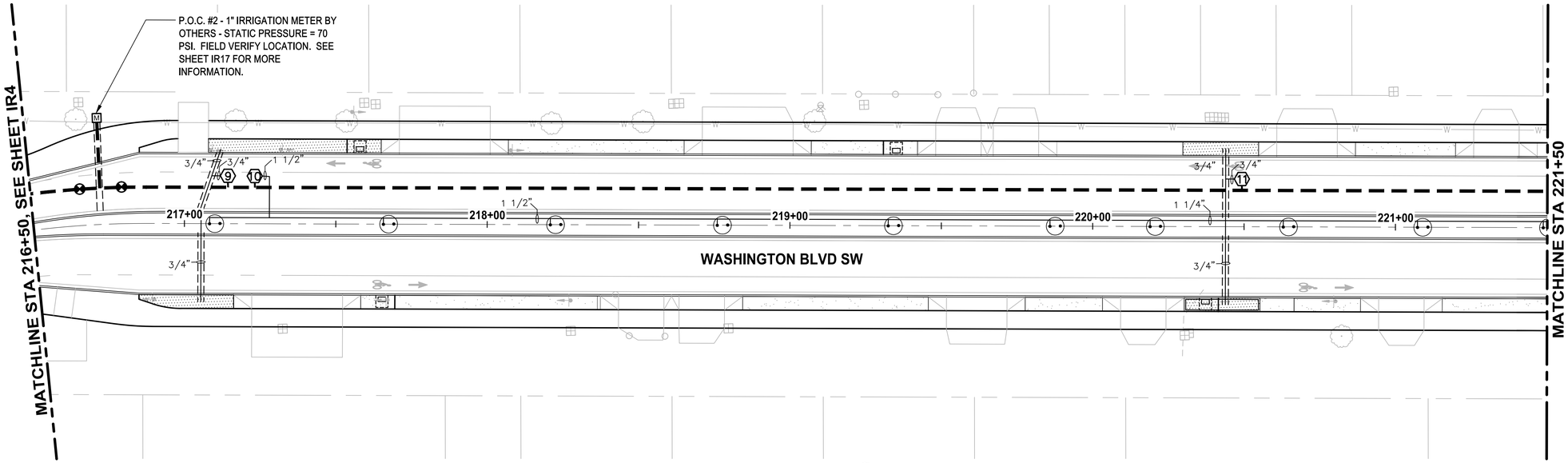
WWW.BCRADESIGN.COM

PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

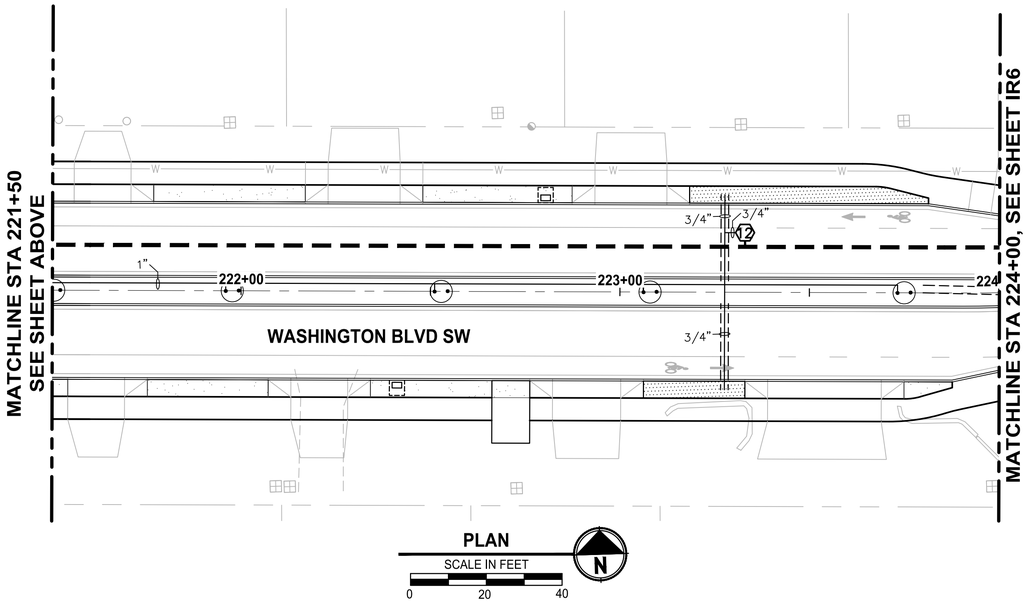
# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 131 OF 169

**IR4**




PLAN
SCALE IN FEET
0 20 40
N




PLAN
SCALE IN FEET
0 20 40
N

## LEGEND

- M — PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- X — PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

1. REFER TO IR12 & IR13 FOR CONSTRUCTION NOTES, DETAILS, AND IRRIGATION EQUIPMENT LISTS. REFER TO SEPARATE WRITTEN SPECIFICATIONS FOR DETAILED IRRIGATION SYSTEM INFORMATION.
2. STATIC PRESSURE REPORTED = 70 PSI. CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. DECODER WIRES TO BE EXTENDED TO ALL VALVE MANIFOLD ASSEMBLIES.
4. PLAN IS DIAGRAMMATIC. VARIATION IN HEAD LOCATIONS ON PLANS IS FOR THE SAKE OF GRAPHIC CLARITY. LOCATION OF IRRIGATION MAINLINE, LATERALS & SLEEVING ARE SCHEMATIC ONLY AND SHALL OCCUR IN PLANTING AREAS.
5. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE DESIGNER RESERVES THE RIGHT TO MAKE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST NOZZLE & HEAD POSITIONS AND ADD OR DELETE HEADS OR TUBING AS NECESSARY DEPENDING ON ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY DESIGN PRESSURES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.

**IRRIGATION PLAN IS DIAGRAMMATIC ONLY**
ALL IRRIGATION PIPING AND EQUIPMENT SHALL BE PLACED IN MEDIANS AND PLANTED AREAS AND SLEEVED UNDER ALL HARD SURFACING.

| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 1424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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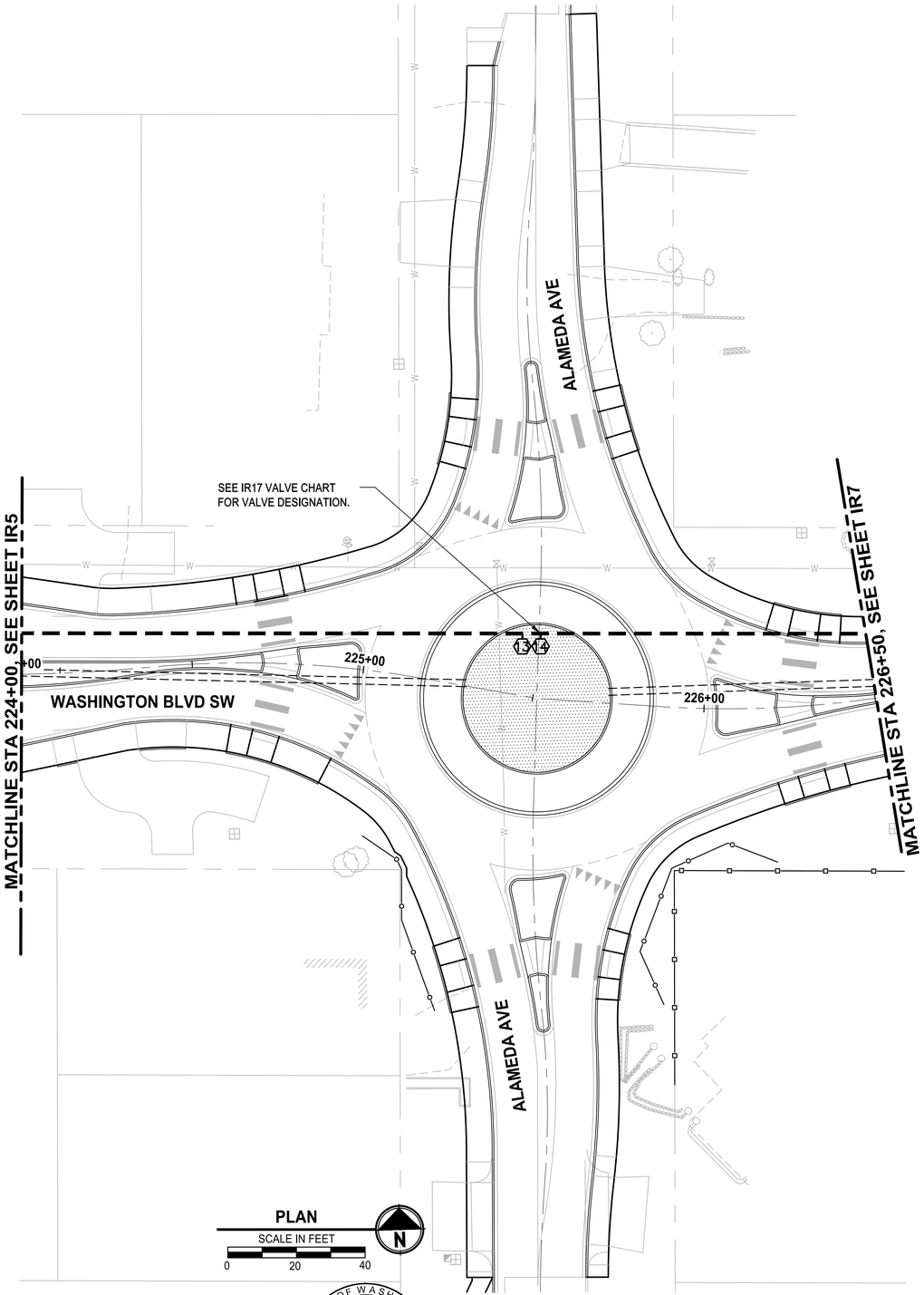
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 132 OF 169
**IR5**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 13, 2022 3:50:20 PM
LAYOUT: IR5




## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

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| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

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01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 133 OF 169
**IR6**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 13, 2022 3:50:30 PM
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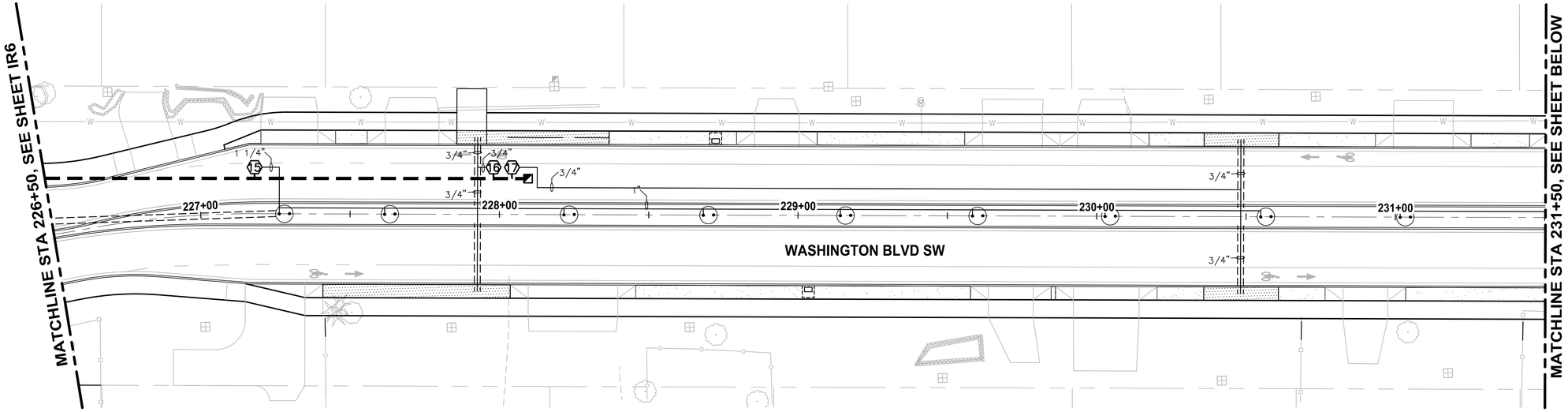
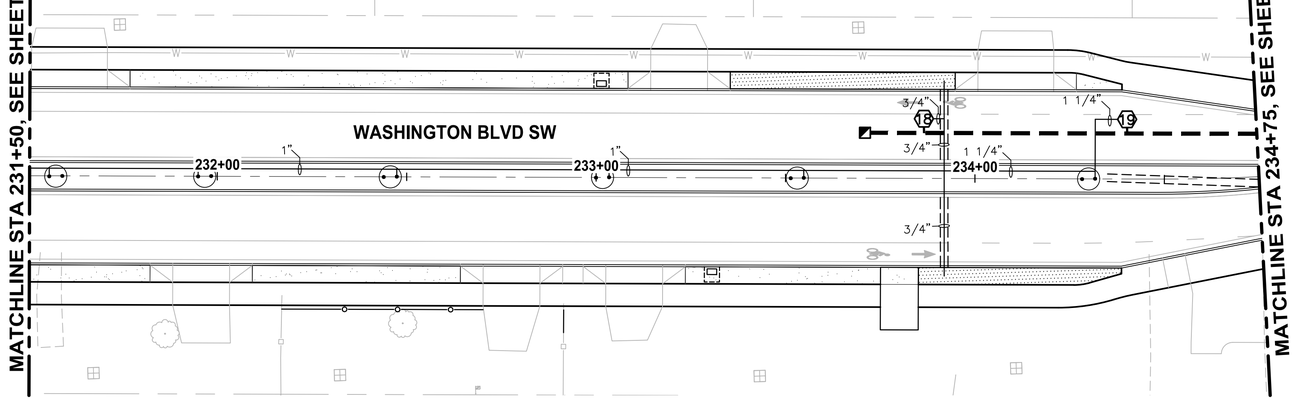



PLAN
SCALE IN FEET
0 20 40
N




PLAN
SCALE IN FEET
0 20 40
N

## LEGEND

- M — PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- X — PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

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| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ★1996★

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 134 OF 169
**IR7**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 13, 2022 3:50:49 PM
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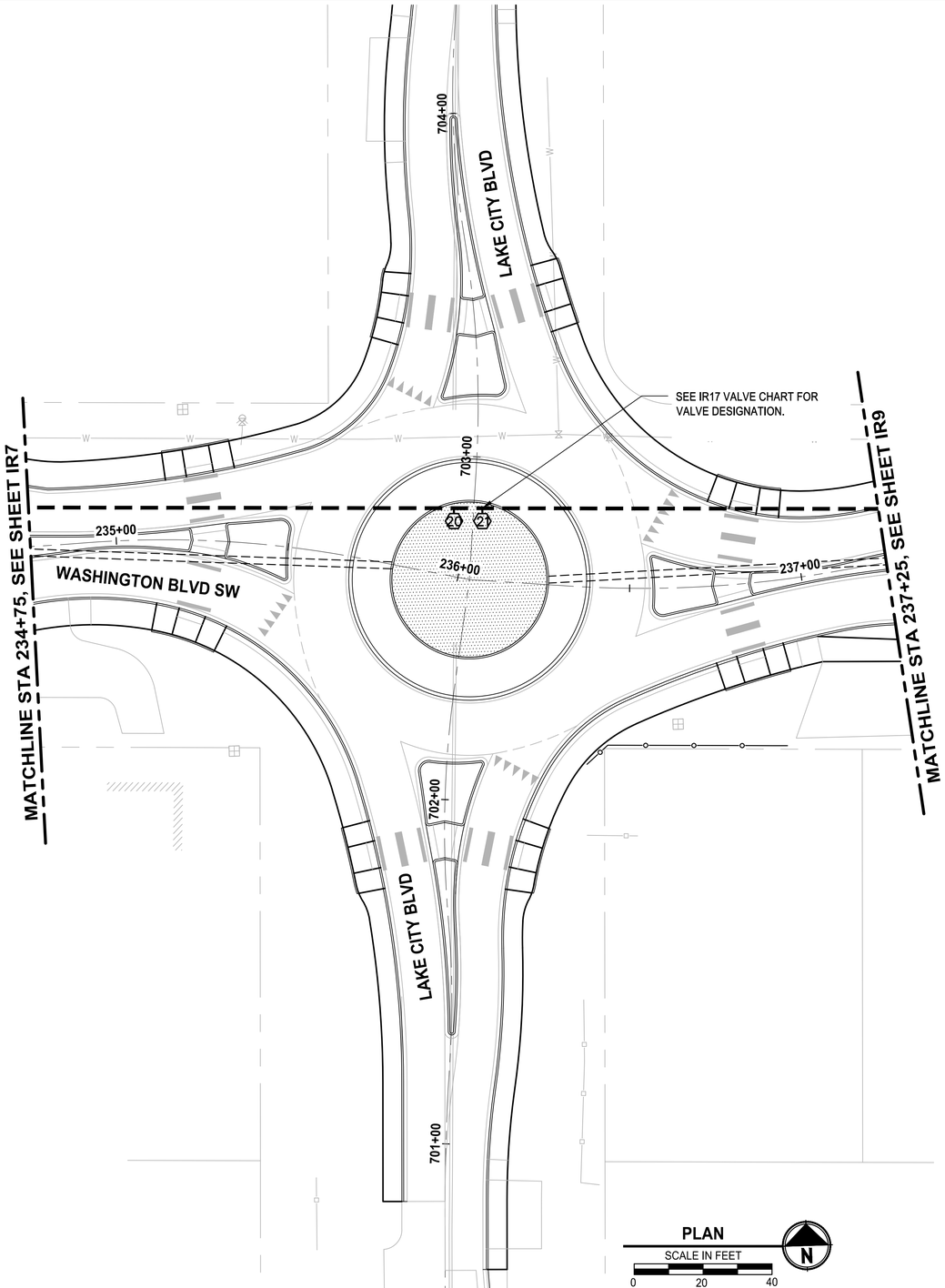


## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

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01/14/2022


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P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 135 OF 169

**IR8**


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toyokat DATE: Thursday, January 13, 2022 3:50:59 PM
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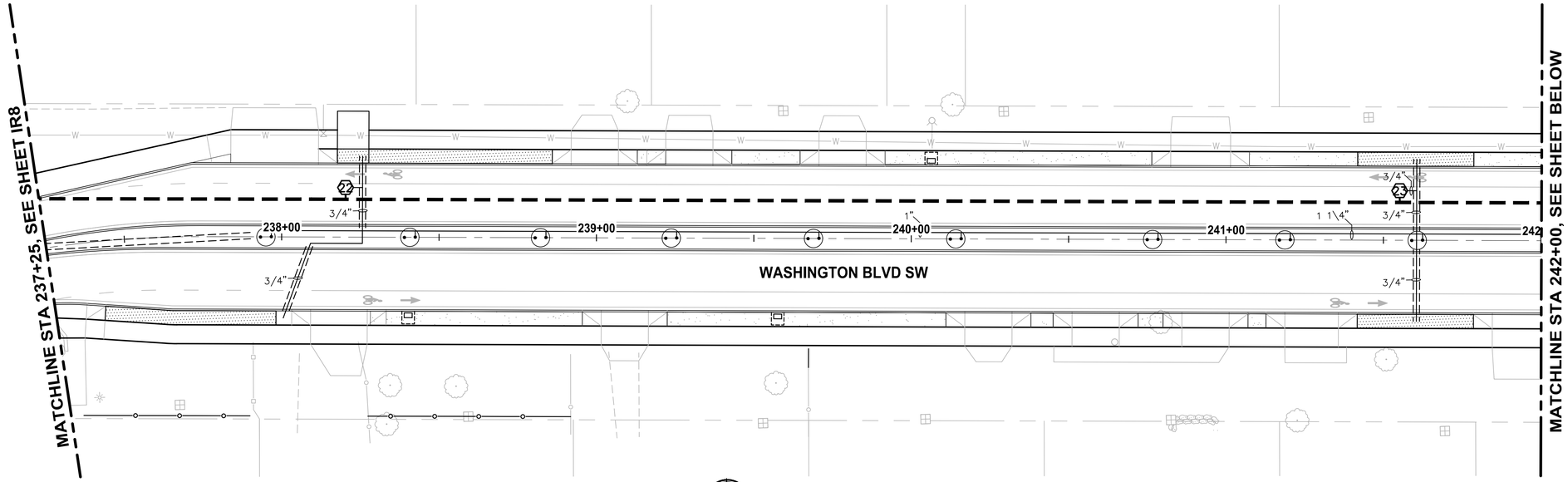
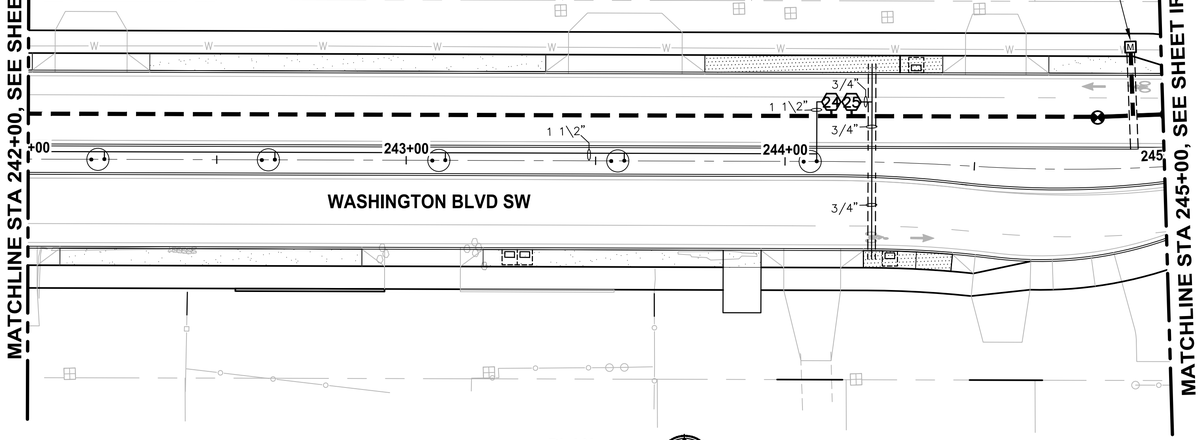



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## LEGEND

- M — PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - CL 200 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- X — PROPOSED ZONE VALVE
- BUBBLER IRRIGATION - TWO PER TREE
- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

## SHEET NOTES:

1. REFER TO IR12 & IR13 FOR CONSTRUCTION NOTES, DETAILS, AND IRRIGATION EQUIPMENT LISTS. REFER TO SEPARATE WRITTEN SPECIFICATIONS FOR DETAILED IRRIGATION SYSTEM INFORMATION.
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR01-09
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 4424 EXP. 2/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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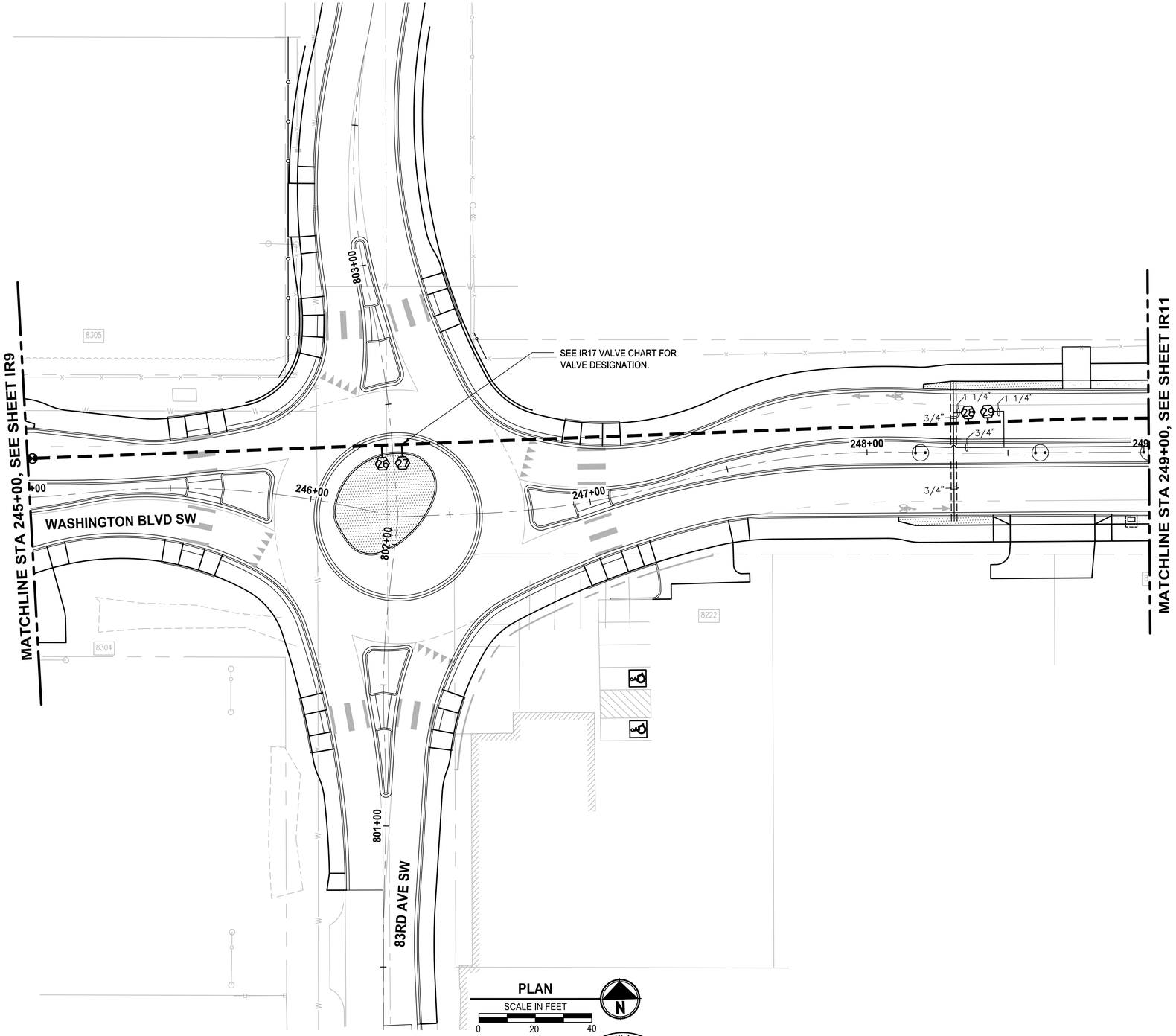
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 136 OF 169
IR9


LAYOUT: IR9 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Thursday, January 13, 2022 3:51:19 PM




## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - SCH. 40 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- PROPOSED ZONE VALVE
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- ISOLATION VALVE
- MANUAL DRAIN VALVE

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| | REVISIONS | DATE | BY |
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-IR10-13
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON · DARREN C. SANDENO · NO. 4424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 137 OF 169
**IR10**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Friday, January 28, 2022 8:59:53 AM
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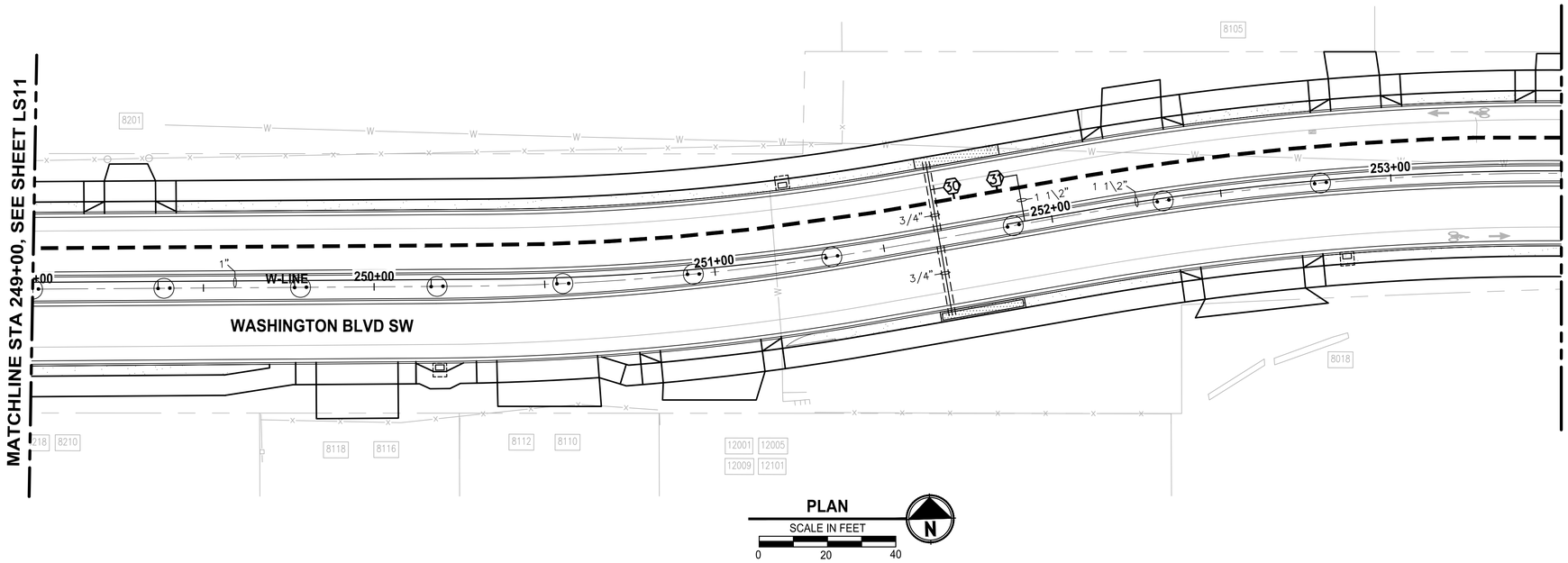
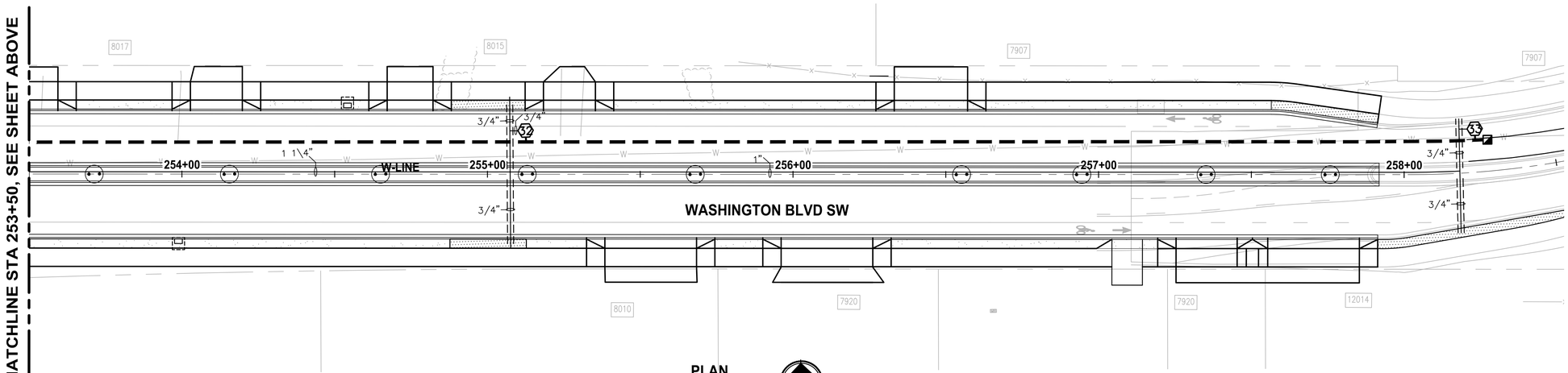



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## LEGEND

- PROPOSED IRRIGATION METER LOCATION
- PROPOSED IRRIGATION MAINLINE - 1.5" DIA. SCH. 40 PVC UNLESS OTHERWISE NOTED
- PROPOSED IRRIGATION LATERAL LINE - SIZE VARIES - SCH. 40 PVC
- PROPOSED IRRIGATION CONDUIT - 4" DIA. SCH. 40 PVC
- PROPOSED ZONE VALVE
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- SUBSURFACE DRIP IRRIGATION.
- ISOLATION VALVE
- MANUAL DRAIN VALVE

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3. DECODER WIRES TO BE EXTENDED TO ALL VALVE MANIFOLD ASSEMBLIES.
4. PLAN IS DIAGRAMMATIC. VARIATION IN HEAD LOCATIONS ON PLANS IS FOR THE SAKE OF GRAPHIC CLARITY. LOCATION OF IRRIGATION MAINLINE, LATERALS & SLEEVING ARE SCHEMATIC ONLY AND SHALL OCCUR IN PLANTING AREAS.
5. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE DESIGNER RESERVES THE RIGHT TO MAKE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST NOZZLE & HEAD POSITIONS AND ADD OR DELETE HEADS OR TUBING AS NECESSARY DEPENDING ON ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY DESIGN PRESSURES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.

**IRRIGATION PLAN IS DIAGRAMMATIC ONLY**
ALL IRRIGATION PIPING AND EQUIPMENT SHALL BE PLACED IN MEDIANS AND PLANTED AREAS AND SLEEVED UNDER ALL HARD SURFACING.

| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR10-13
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

STATE OF WASHINGTON · DARREN C. SANDENO · No. 1424 EXP. 12/06/2023 · LANDSCAPE ARCHITECT ·
01/14/2022


Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
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TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION PLAN WASHINGTON BLVD SW

DRAWING NO. 138 OF 169
**IR11**

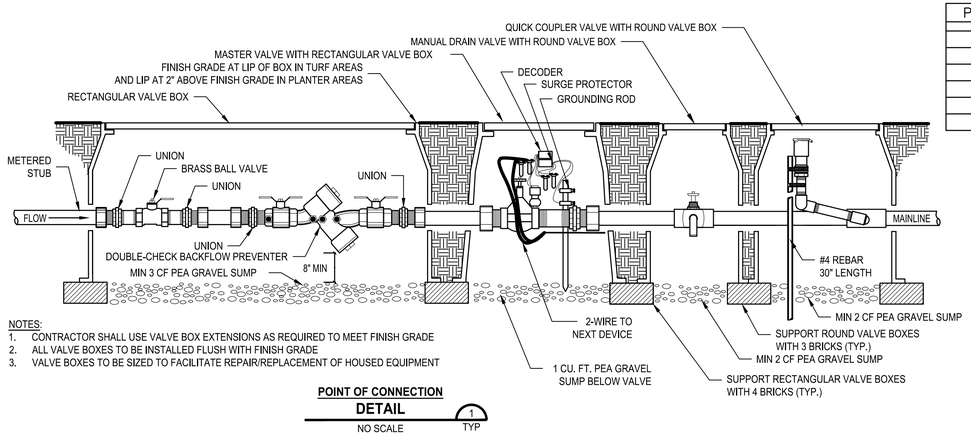

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Thursday, January 13, 2022 3:48:24 PM
LAYOUT: IR11

## Valve & Controller Schedule

| P.O.C # | MFR. | Controller Model | Valve #s | Size |
|---|---|---|---|---|
| #1 | Rainbird | ESP-9V | 1-4 | 3/4" |
| #2 | Hunter | PED-ACC-SS | 1-17 | 1.5" |
| #3 | Hunter | PED-ACC-SS | 18-43 | 1.5" |
| #4 | Rainbird | ESP-9V | 1-3 | 3/4" |
| #5 | Rainbird | ESP-9V | 1-2 | 3/4" |
| #6 | Rainbird | ESP-9V | 1-2 | 3/4" |

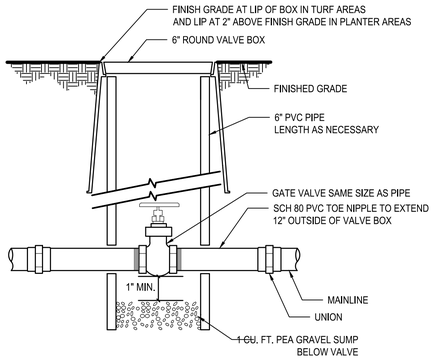
## Irrigation Equipment List

| Symbol | MFR. | Ordering # | Product Description |
|---|---|---|---|
| | Rainbird | 1404 Bubbler | 2.0 gpm pressure compensating full-circle umbrella pattern bubbler |
| | Rainbird | XFS0912500 | Subsurface irrigation tubing with .9 gph emitters with 12" emitter spacing |
| | | | |
| X | Rainbird | PEB-Series | Electric remote control valve - 100-PEB for all subsurface applications 150-PEB for all bubbler applications |
| See Detail | Rainbird | 3RC | 3/4" brass quick coupler |
| See Detail | Febco | 825Y | 1.5" backflow preventer |
| | B & K | 107-900 Series | Brass ball valve (schedule 40 unions with brass inserts) match line size |
| | Wilkins | #200 1/4" | Angle valve for manual drain assembly with key extension |
| | | | |
| C | Hunter | PED-ACC99-SS | Up to 99 station two-wire irrigation controller on pedestal mount - **See Sheet IR7 |
| NOT SHOWN | Rainbird | ESP-9V2/4 | 2 & 4 Station battery operated in-box controllers |
| | Schedule 40 pvc pipe for mainline, install above ground (24" under paved areas) | | |
| | Class 200 pvc pipe for lateral lines, install above ground (24" under paved areas) | | |
| | Class 200 pvc pipe sleeve, install at 24" depth | | |
| NOT SHOWN | Two-Wire system wiring | | |

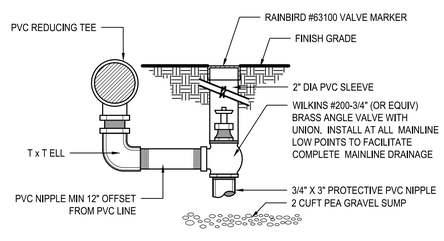



NOTES:
1. CONTRACTOR SHALL USE VALVE BOX EXTENSIONS AS REQUIRED TO MEET FINISH GRADE
2. ALL VALVE BOXES TO BE INSTALLED FLUSH WITH FINISH GRADE
3. VALVE BOXES TO BE SIZED TO FACILITATE REPAIR/REPLACEMENT OF HOUSED EQUIPMENT

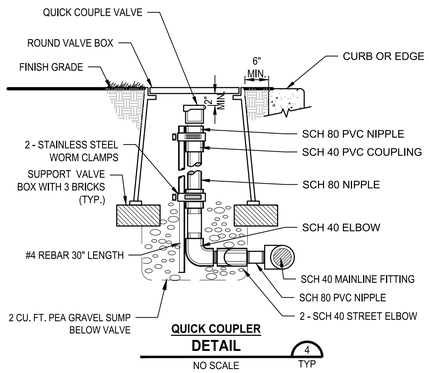
**POINT OF CONNECTION DETAIL** 1 TYP
NO SCALE



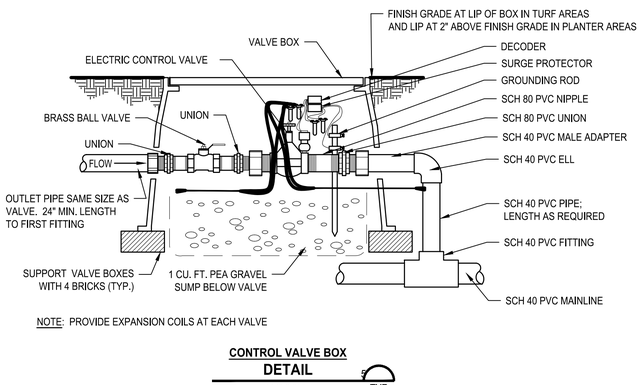

**ISOLATION VALVE DETAIL** 2 TYP




**MANUAL DRAIN VALVE DETAIL** 3 TYP

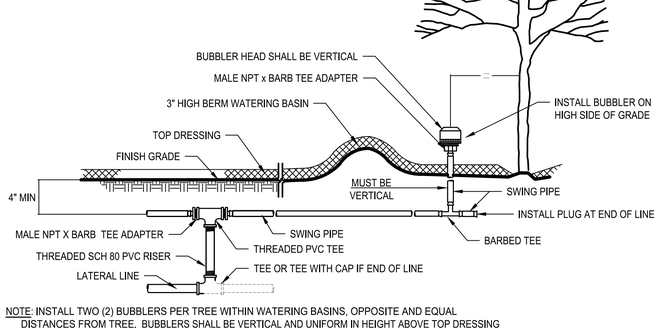



**QUICK COUPLER DETAIL** 4 TYP
NO SCALE




NOTE: PROVIDE EXPANSION COILS AT EACH VALVE

**CONTROL VALVE BOX DETAIL** 5 TYP
NO SCALE




NOTE: INSTALL TWO (2) BUBBLERS PER TREE WITHIN WATERING BASINS, OPPOSITE AND EQUAL DISTANCES FROM TREE. BUBBLERS SHALL BE VERTICAL AND UNIFORM IN HEIGHT ABOVE TOP DRESSING

**BUBBLER LATERAL TO WATERING BASIN DETAIL** 00 TYP
NO SCALE

**PLAN**
SCALE IN FEET
0 20 40

## IRRIGATION IMPROVEMENTS - ELECTRICAL NOTES

1. 24" LOOP EXPANSION COIL OF WIRE SHALL BE LOCATED AT EACH ELECTRIC VALVE.

2. INSTALL TWO-WIRE SYSTEM TO ALL VALVES. WIRING SHALL BE SIZED APPROPRIATELY FOR LENGTH OF RUN.

3. ALL WIRE SHALL BE UL APPROVED FOR DIRECT BURIAL.

4. ALL ELECTRICAL WORK AND CONNECTIONS SHALL BE INSTALLED AS PER STATE AND LOCAL CODES.

5. SPLICE WIRES ONLY AT CONNECTION POINTS. SUPPLY ECONO VALVE BOX AT ALL ELECTRICAL JUNCTIONS AND NOTE ALL LOCATIONS ON 'AS BUILT' DRAWINGS.

## IRRIGATION IMPROVEMENTS - GENERAL NOTES

1. REFER TO THIS SHEET & IR18 FOR IRRIGATION SYSTEM INSTALLATION DETAILS.

2. ALL CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND WASHINGTON DEPARTMENT OF TRANSPORTATION PROJECT SPECIFICATIONS (2018).

3. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH THE OWNER. CONTRACTOR SHALL SUPPLY ENGINEER WITH A PROJECT WORK PLAN PER WSDOT 8-02.3(2) FOR APPROVAL PRIOR TO BEGINNING WORK. THE INSTALLATION OF PLANT MATERIAL SHALL NOTE BE ALLOWED UNTIL IRRIGATION LAYOUT & COVERAGE TESTS ARE APPROVED BY ENGINEER. ALL CONSTRUCTION CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY UPON RECOGNITION.

4. CONTRACTOR IS RESPONSIBLE FOR A THOROUGH CLEAN-UP FOR HIS/HER RESPECTIVE WORK, DAILY AND AT PROJECT CLOSE-OUT.

5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND/OR QUALIFIED INSTALLERS/TRADES ACCEPTABLE TO THE SOLE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE OWNER.

6. ALL PIPING UNDER HARD SURFACES (INCLUDES CONCRETE, ASPHALT, CRUSHED GRAVEL) SHALL BE SLEEVED WITHIN A SCH. 40 PVC CONDUIT EXTENDING 12 INCHES BEYOND HARD SURFACE EDGE AT 24" DEPTH.

7. ALL CONTROL WIRING NOT IN MAINLINE TRENCH SHALL BE BURIED WITHIN PVC CONDUIT. CONDUIT SHALL BE PLACED 24" BELOW FINISH GRADE. ALL CONDUIT AND FITTINGS SHALL BE SCH. 40.

8. PIPE SIZE SHALL BE THE SAME ON BOTH SIDES OF VALVES.

9. LOCATE ALL VALVES WITHIN ONE (1) FOOT OF THE MAINLINE.

10. WHERE TWO OR MORE VALVE BOXES ARE INSTALLED ADJACENT TO ONE ANOTHER, INSTALL PARALLEL/PERPENDICULAR TO HARD SURFACE AND AT UNIFORM ELEVATION AND DISTANCES RELATIVE TO SURFACES AND ONE ANOTHER.

11. IRRIGATION SITE PLAN IS SCHEMATIC. IRRIGATION PLUMBING AND EQUIPMENT SHALL BE INSTALLED IN LAWN OR SHRUB BED AREAS AND WITHIN PROPERTY BOUNDARIES. THE CONTRACTOR SHALL CONSIDER ALL SITE FEATURES IN THE INSTALLATION OF IRRIGATION IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL IRRIGATION EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM. FIELD VERIFY ALL EXISTING EQUIPMENT LOCATIONS AND REPORT ANY INCONSISTENCIES TO LANDSCAPE ARCHITECT.

12. ALL PVC SOLVENT WELDS WILL BE MADE AS A TWO-STEP PROCESS W/ SEPERATE PRIMER AND GLUE APPLICATIONS. ALL GLUE SHALL BE MANUFACTURED FOR IRRIGATION AND CONDUIT ASSEMBLY ONLY. NO "ONE-STEP" GLUE SHALL BE ALLOWED. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO USE. USE.

13. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND SIZES OF IRRIGATION SLEEVES PRIOR TO CONSTRUCTION AND PROVIDE ANY ADDITIONAL SLEEVING OR UPSIZING REQUIRED PRIOR TO CONSTRUCTION.

14. CONTRACTOR SHALL COORDINATE CONTROLLER LOCATION AND POWER SOURCE WITH CITY AND GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.

| | REVISIONS | DATE | BY |
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| | | | |

DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR10-13
JOB No. 214-3047-013
DATE JANUARY 2022

STATE OF WASHINGTON · DARREN C. SANDENO · NO. 4424 EXP. 12/09/2023 · LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# IRRIGATION DETAILS & NOTES GRAVELLY LAKE DR SW

DRAWING NO. 139 OF 169
**IR12**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
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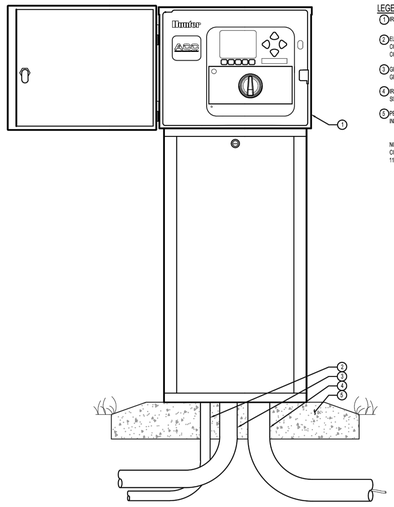
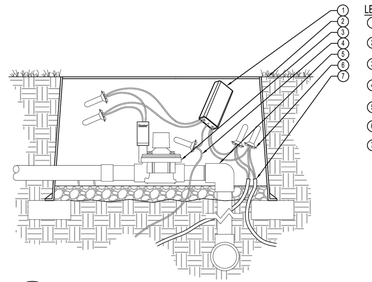


LEGEND:
1. IRRIGATION CONTROLLER (ACC-P(D)-SS) PER PLAN
2. ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE, J-BOX INSIDE CONTROLLER
3. GROUND WIRE CONDUIT GROUND PER ASIC GUIDELINES
4. IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
5. PEDESTAL BASE PER PLAN INSURE POSITIVE DRAINAGE AWAY FROM PEDESTAL

NOTE
CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE

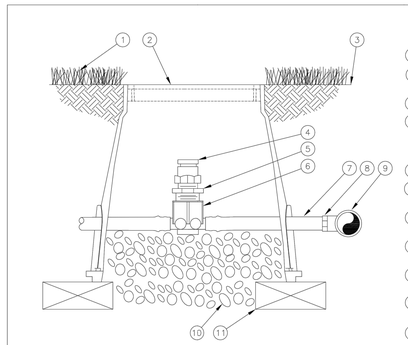
XX ACC - PEDESTAL MOUNT STAINLESS STEEL
C.ACC.05 NOT TO SCALE



LEGEND:
1. ICD-100 DECODER PER PLAN
2. FINISHED GRADE
3. VALVE PER PLAN
4. TO EARTH GROUND
5. PVC MAIN LINE
6. 2BBRY-6 (2)
7. JACKETED ID WIRE PATH

NOTE
EARTH GROUND TO BE A MINIMUM OF 8' AWAY FROM DUAL-6 AND AT A RIGHT ANGLE TO THE TWO WIRE PATH

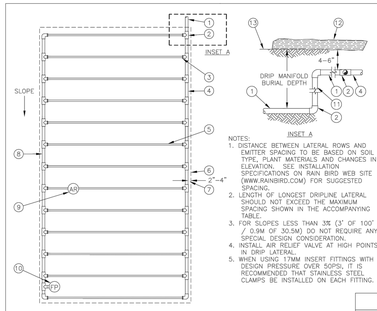
XX ICD-100 DECODER
C.DICD.01 NOT TO SCALE



1. TURF GRASS
2. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
3. FINISH GRADE
4. ½" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
5. ½" X ¾" PVC REDUCER BUSHING
6. BARB X FEMALE THREAD CONNECTOR: RAIN BIRD XFD-TFA FITTING
7. ½" BLANK DRIPLINE TUBING: RAIN BIRD XF SERIES
8. BARB X MALE THREAD CONNECTOR: RAIN BIRD XFF-MA FITTING
9. PVC TEE CONNECTED TO PVC HEADER PIPE
10. 3" MINIMUM DEPTH OF ¾" WASHED GRAVEL
11. BRICK (1 OF 2)

D XFS SUB-SURFACE DRIPLINE 12-18-2012
N.T.S. 1/2" AIR RELIEF VALVE IN XFS DRIPLINE

XFS Sub-Surface Dripline 0.5 Air Relief Valve In XFS Dripline




NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. FOR SLOPES LESS THAN 3% (3' OF 100' / 0.9M OF 30.5M) DO NOT REQUIRE ANY SPECIAL DESIGN CONSIDERATION.
4. INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP INTERVAL.
5. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

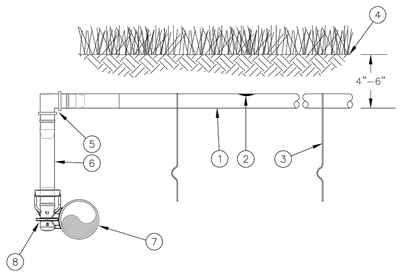
1. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF–MA FITTING (TYPICAL)
4. PVC SUPPLY MANIFOLD
5. SUB–SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON–POTABLE: XFSP DRIPLINE
6. PERIMETER OF AREA
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
8. PVC FLUSH HEADER
9. ¾" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION
10. FLUSH POINT: SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
11. PVC RISER PIPE
12. TURF OR MULCH
13. FINISH GRADE

**XFS Dripline Maximum Lateral Lengths (Feet)**

| Inlet Pressure psi | 12" Spacing | | 18" Spacing | | 24" Spacing | |
|---|---|---|---|---|---|---|
| | Nominal Flow (gph) | | Nominal Flow (gph) | | Nominal Flow (gph) | |
| | 0.6 | 0.9 | 0.6 | 0.9 | 0.6 | 0.9 |
| 15 | 273 | 155 | 314 | 250 | 424 | 322 |
| 20 | 318 | 169 | 353 | 294 | 508 | 368 |
| 30 | 360 | 230 | 413 | 350 | 586 | 414 |
| 40 | 395 | 255 | 465 | 402 | 652 | 474 |
| 50 | 417 | 285 | 528 | 420 | 720 | 488 |
| 60 | 460 | 290 | 596 | 455 | 780 | 514 |

D XFS SUB-SURFACE DRIPLINE 12-18-2012
N.T.S. DOWN SLOPE MEDIAN

XFS Sub-Surface Dripline Down Slope Median

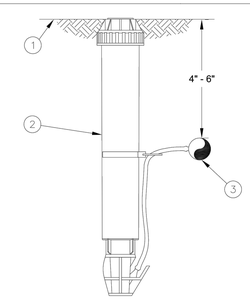


1. SUB–SURFACE DRIPLINE: RAIN BIRD XFS–CV SERIES DRIPLINE NON–POTABLE: XFS–CVP DRIPLINE
2. INLINE DRIP EMITTER OUTLET
3. TIE DOWN STAKE: RAIN BIRD TDS–050 WITH BEND (TYPICAL)
4. TURF/FINISH GRADE OR SHRUB BED WITH MULCH
5. BARB X BARB FITTING RAIN BIRD XFF–ELBOW
6. 1/2" RAIN BIRD XF SERIES BLANK TUBING
7. QF HEADER
8. PRE–INSTALLED BARBED FITTING

NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE–DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.

D XFS-CV SUB-SURFACE DRIPLINE 05-17-2017
N.T.S. ATTACHED TO QF HEADER

XFS–CV Sub–Surface Dripline Attached To QF Header

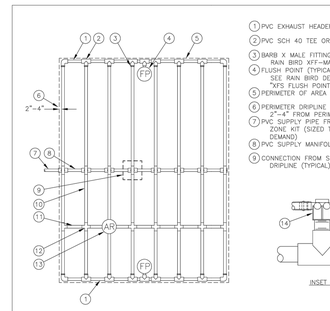


1. FINISH GRADE/TURF
2. OPERATION INDICATOR RAIN BIRD MODEL: OPERIND
3. SUB–SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON–POTABLE: XFSP DRIPLINE

NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ¼ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

D XFS SUB-SURFACE DRIPLINE 12-18-2012
N.T.S. OPERATION INDICATOR

XFS Sub–Surface Dripline Operation Indicator



1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF–MA FITTING (TYPICAL)
4. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFS FLUSH POINT" OR "XFS FLUSH POINT WITH BALL VALVE"
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
7. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
8. PVC SUPPLY MANIFOLD
9. CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)– SEE INSET A
10. SUB–SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON–POTABLE: XFSP DRIPLINE
11. RAIN BIRD XF SERIES BLANK TUBING
12. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF–TEE OR RAIN BIRD XFD–CROSS (TYPICAL)
13. ½" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION
14. BARB X FEMALE FITTING: RAIN BIRD XFD–TFA–075 FITTING
15. ¾" PVC NIPPLE, LENGTH AS NECESSARY

INSET A

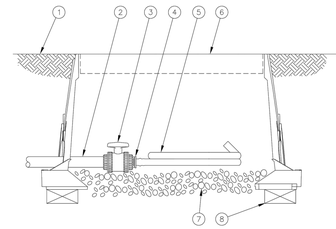
NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XF–SDI DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

**XFS Dripline Maximum Lateral Lengths (Feet)**

| Inlet Pressure psi | 12" Spacing | | 18" Spacing | | 24" Spacing | |
|---|---|---|---|---|---|---|
| | Nominal Flow (gph) | | Nominal Flow (gph) | | Nominal Flow (gph) | |
| | 0.6 | 0.9 | 0.6 | 0.9 | 0.6 | 0.9 |
| 15 | 273 | 155 | 314 | 250 | 424 | 322 |
| 20 | 318 | 169 | 353 | 294 | 508 | 368 |
| 30 | 360 | 230 | 413 | 350 | 586 | 414 |
| 40 | 395 | 255 | 465 | 402 | 652 | 474 |
| 50 | 417 | 285 | 528 | 420 | 720 | 488 |
| 60 | 460 | 290 | 596 | 455 | 780 | 514 |

D XFS SUB-SURFACE DRIPLINE 12-18-2012
N.T.S. CENTER FEED LAYOUT

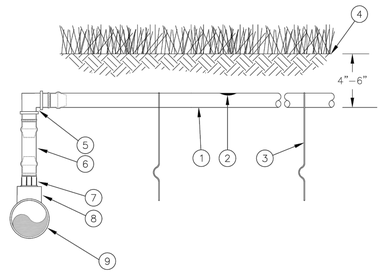
XFS Sub–Surface Dripline Center Feed Layout



1. FINISH GRADE
2. PVC DRIP MANIFOLD PIPE
3. PVC 1" X ¾" TRUE UNION BALL VALVE
4. EASY FIT MALE X BARB ADAPTER: RAIN BIRD XFF–MA–075
5. SUB–SURFACE DRIPLINE: RAIN BIRD XF SERIES BLANK TUBING
6. 12–INCH VALVE BOX WITH COVER: RAIN BIRD VB–STD
7. 3–INCH MINIMUM DEPTH OF ¾" WASHED GRAVEL
8. BRICK (1 OF 2)

D XFS SUB-SURFACE DRIPLINE 12-18-2012
N.T.S. FLUSH POINT WITH BALL VALVE

XFS Sub–Surface Dripline Flush Point With Ball Valve



1. SUB–SURFACE/ON–SURFACE DRIPLINE: RAIN BIRD XFS–CV SERIES DRIPLINE NON–POTABLE: XFS–CVP DRIPLINE
2. INLINE DRIP EMITTER OUTLET
3. TIE DOWN STAKE: RAIN BIRD TDS–050 WITH BEND (TYPICAL)
4. TURF/FINISH GRADE OR SHRUB BED WITH MULCH
5. BARB X BARB INSERT RAIN BIRD XFF–ELBOW
6. 1/2" RAIN BIRD XF SERIES BLANK TUBING
7. TWIST LOCK FITTING: TLF–MPT8–0600
8. 1 1/2" X 1 1/2" X 3/4" SST PVC TEE
9. PVC LATERAL MINIMUM 1 1/2" IN DIAMETER DEPTH PER SPECIFICATION

NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE–DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.

D XFS-CV SUB-SURFACE DRIPLINE INSERT 05-17-2017
N.T.S. ADAPTER FOR 1 1/2" OR LARGER PVC

XFS–CV Sub–Surface Dripline Adapter For PVC

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |

DESIGNED D. SANDENO
DRAWN D. BAILEY
CHECKED F. IDE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-IR10-13
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

STATE OF WASHINGTON DARREN C. SANDENO No. 4424 EXP. 12/09/2023 LANDSCAPE ARCHITECT
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# IRRIGATION DETAILS & NOTES GRAVELLY LAKE DR SW

DRAWING NO. 140 OF 169
IR13


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Scs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 13, 2022 3:48:29 PM
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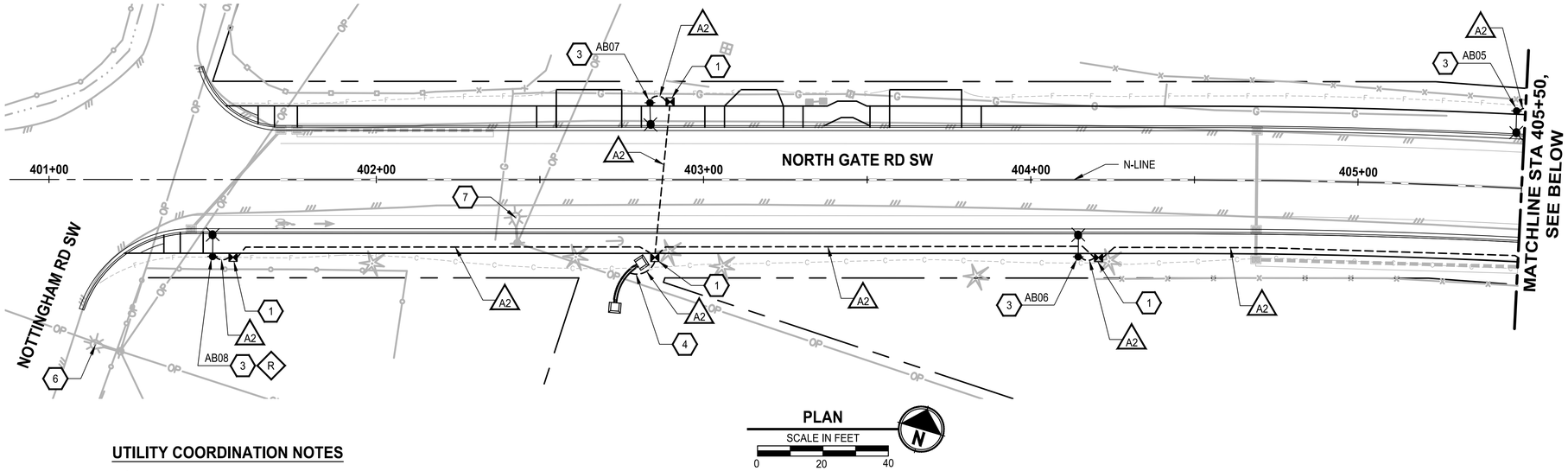
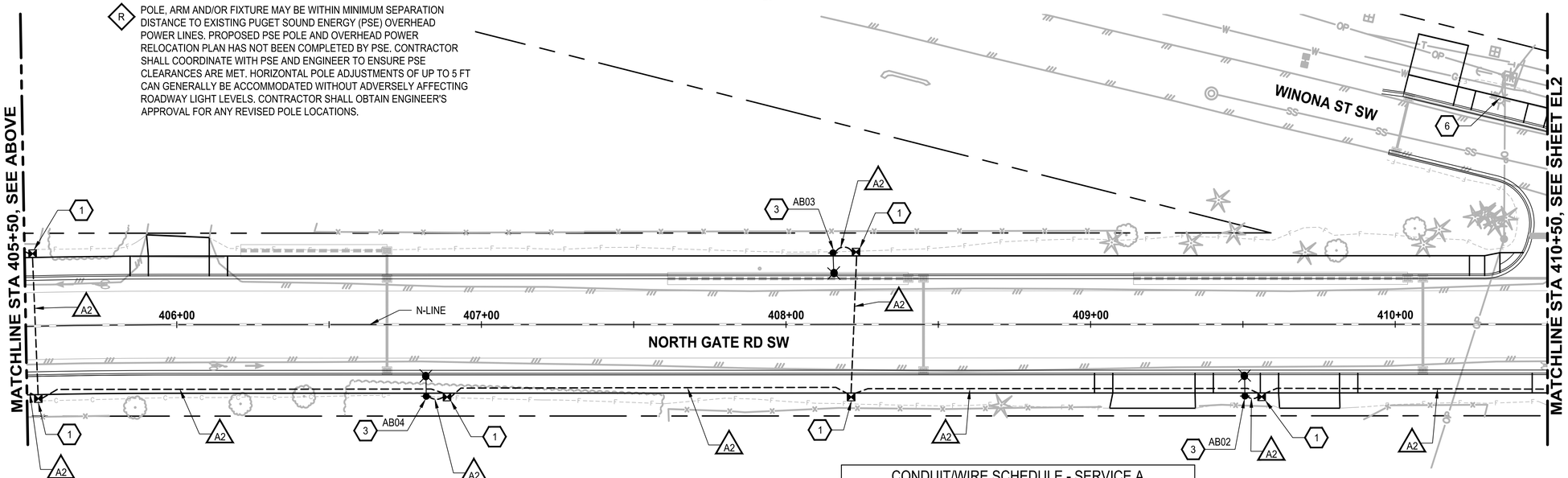



PLAN
SCALE IN FEET
0 20 40

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.




PLAN
SCALE IN FEET
0 20 40

## CONDUIT/WIRE SCHEDULE - SERVICE A

| RUN I.D. | CONDUIT SIZE | SERVICE A | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| A1 | 2" | 2 X #8 | | | | | |
| A2 | 2" | | 2 X #8 | | | | |
| A3 | 2" | | | 2 X #8 | | | |
| A4 | 2" | | | | 2 X #8 | | |
| A5 | 2" | 2 X #8 | 2 X #8 | | | | |
| A6 | 2" | | | 2 X #8 | 2 X #8 | | |
| A7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| A8 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN NORTH GATE RD SW

DRAWING NO. 141 OF 169
**EL1**


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:34:48 PM
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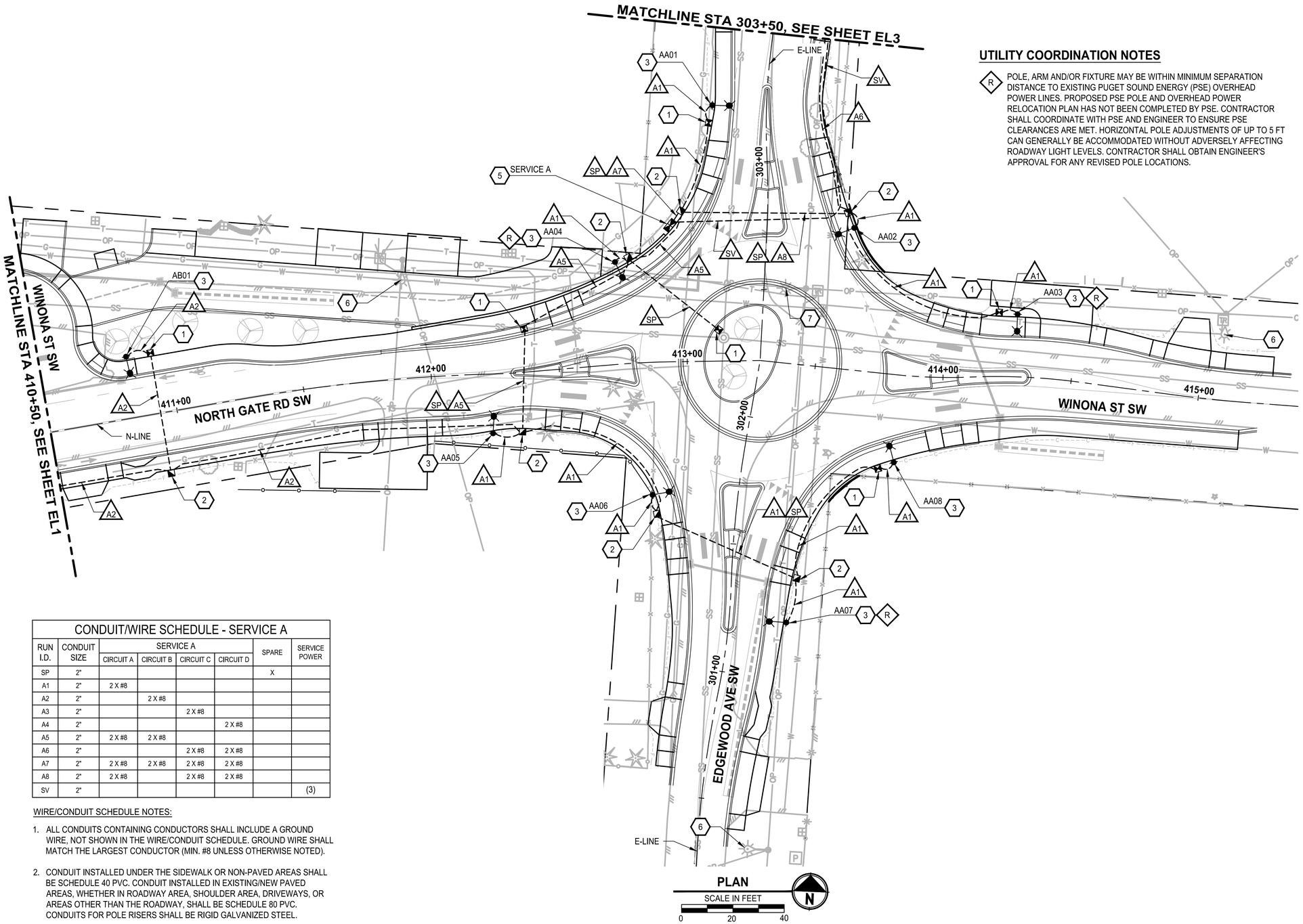


## UTILITY COORDINATION NOTES

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## CONDUIT/WIRE SCHEDULE - SERVICE A

| RUN I.D. | CONDUIT SIZE | SERVICE A | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| A1 | 2" | 2 X #8 | | | | | |
| A2 | 2" | | 2 X #8 | | | | |
| A3 | 2" | | | 2 X #8 | | | |
| A4 | 2" | | | | 2 X #8 | | |
| A5 | 2" | 2 X #8 | 2 X #8 | | | | |
| A6 | 2" | | | 2 X #8 | 2 X #8 | | |
| A7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| A8 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
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3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## GENERAL NOTES

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3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
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## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
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5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
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10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
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3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL01-03
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN NORTH GATE RD SW

DRAWING NO. 142 OF 169
EL2


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylakat DATE: Wednesday, January 26, 2022 1:34:57 PM
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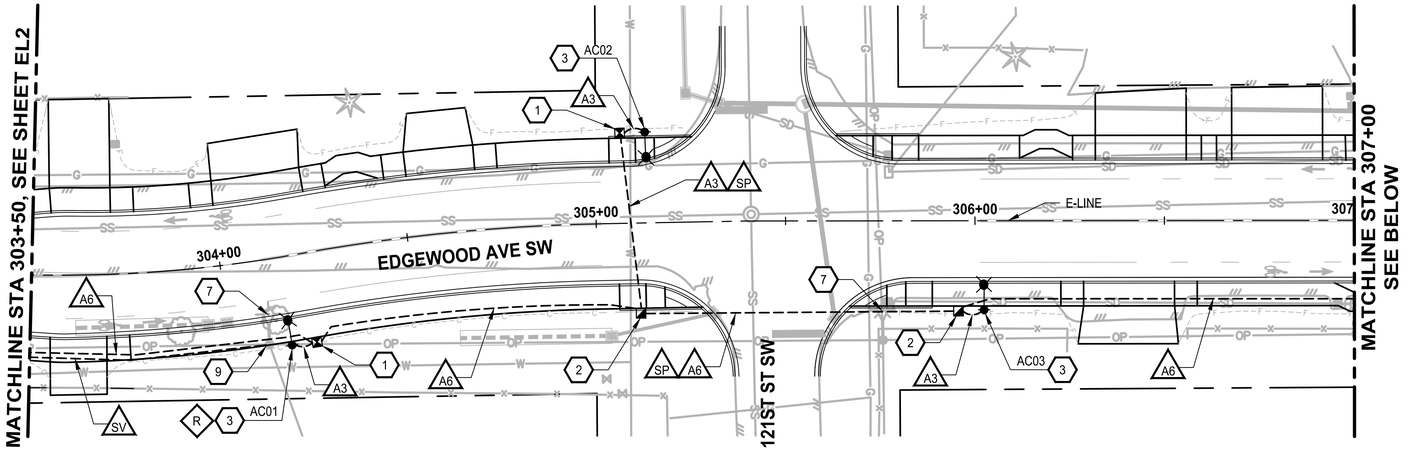
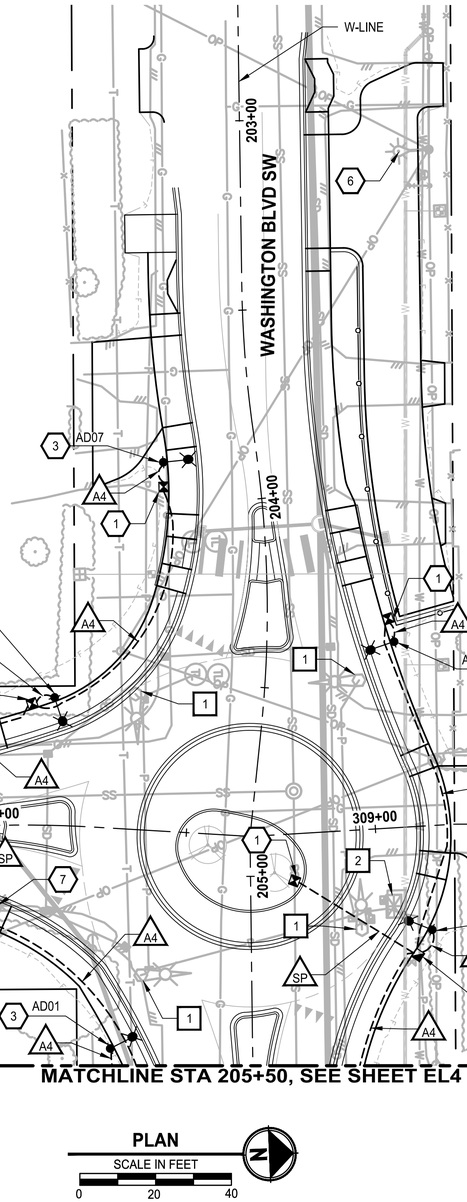



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## UTILITY COORDINATION NOTES

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### CONDUIT/WIRE SCHEDULE - SERVICE A

| RUN I.D. | CONDUIT SIZE | SERVICE A | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| A1 | 2" | 2 X #8 | | | | | |
| A2 | 2" | | 2 X #8 | | | | |
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| A5 | 2" | 2 X #8 | 2 X #8 | | | | |
| A6 | 2" | | | 2 X #8 | 2 X #8 | | |
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| A8 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
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## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
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7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
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## SIGNAL REMOVAL NOTES

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## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
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MARC EDWIN KENDALL — STATE OF WASHINGTON — 52656 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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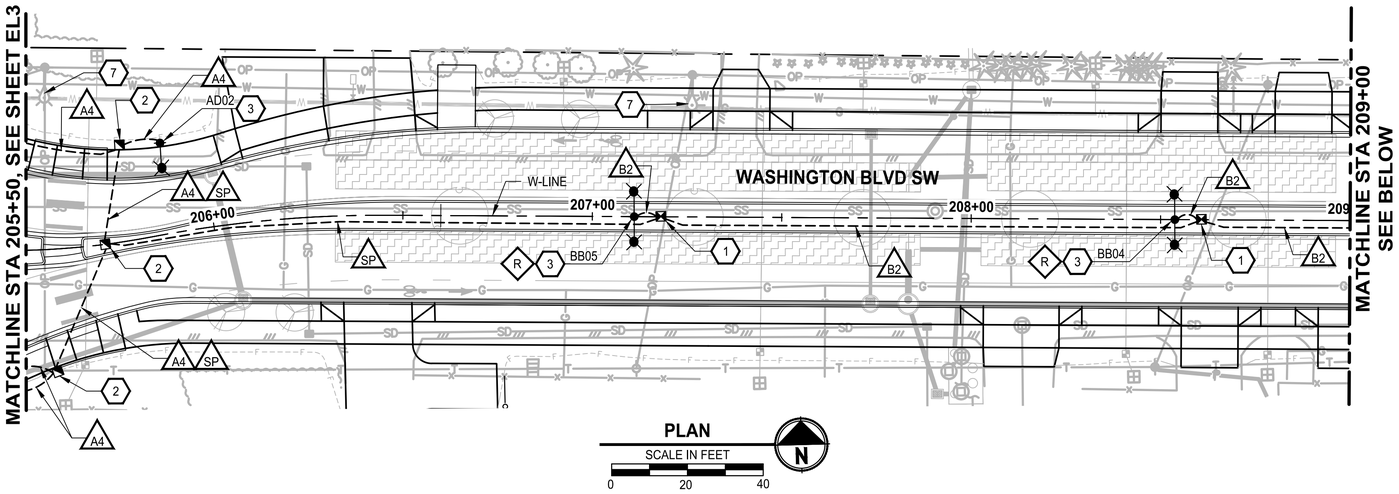
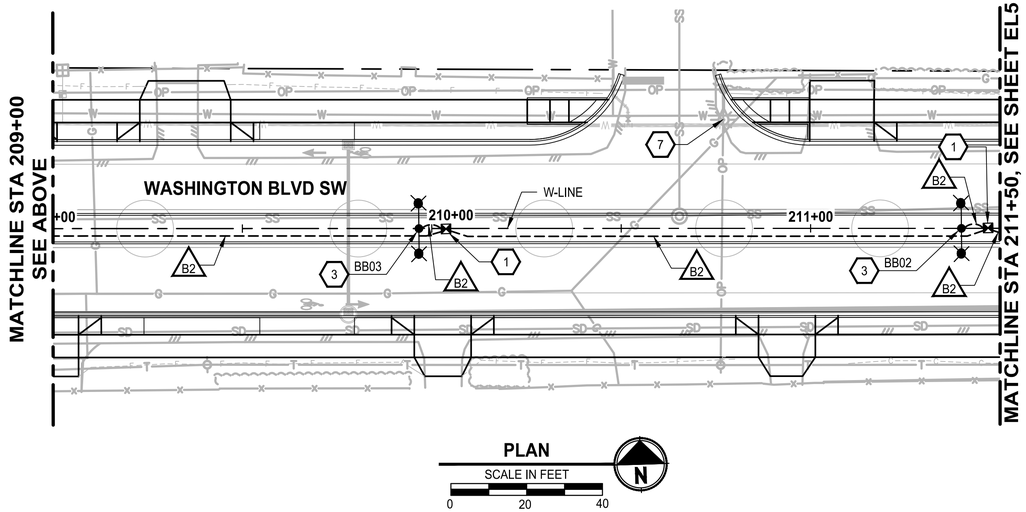
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN EDGEWOOD AVE SW

DRAWING NO. 143 OF 169
EL3


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:35:12 PM
LAYOUT: EL3




## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

### CONDUIT/WIRE SCHEDULE - SERVICE A

| RUN I.D. | CONDUIT SIZE | SERVICE A | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| A1 | 2" | 2 X #8 | | | | | |
| A2 | 2" | | 2 X #8 | | | | |
| A3 | 2" | | | 2 X #8 | | | |
| A4 | 2" | | | | 2 X #8 | | |
| A5 | 2" | 2 X #8 | 2 X #8 | | | | |
| A6 | 2" | | | 2 X #8 | 2 X #8 | | |
| A7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| A8 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

### CONDUIT/WIRE SCHEDULE - SERVICE B

| RUN I.D. | CONDUIT SIZE | SERVICE B | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| B1 | 2" | 2 X #8 | | | | | |
| B2 | 2" | | 2 X #8 | | | | |
| B3 | 2" | | | 2 X #8 | | | |
| B4 | 2" | | | | 2 X #8 | | |
| B5 | 2" | 2 X #8 | 2 X #8 | | | | |
| B6 | 2" | 2 X #8 | | | 2 X #8 | | |
| B7 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| B8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL04-06
JOB No. 214-3047-013
DATE JANUARY 2022

MARC EDWIN KENDALL — STATE OF WASHINGTON — 52656 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 144 OF 169

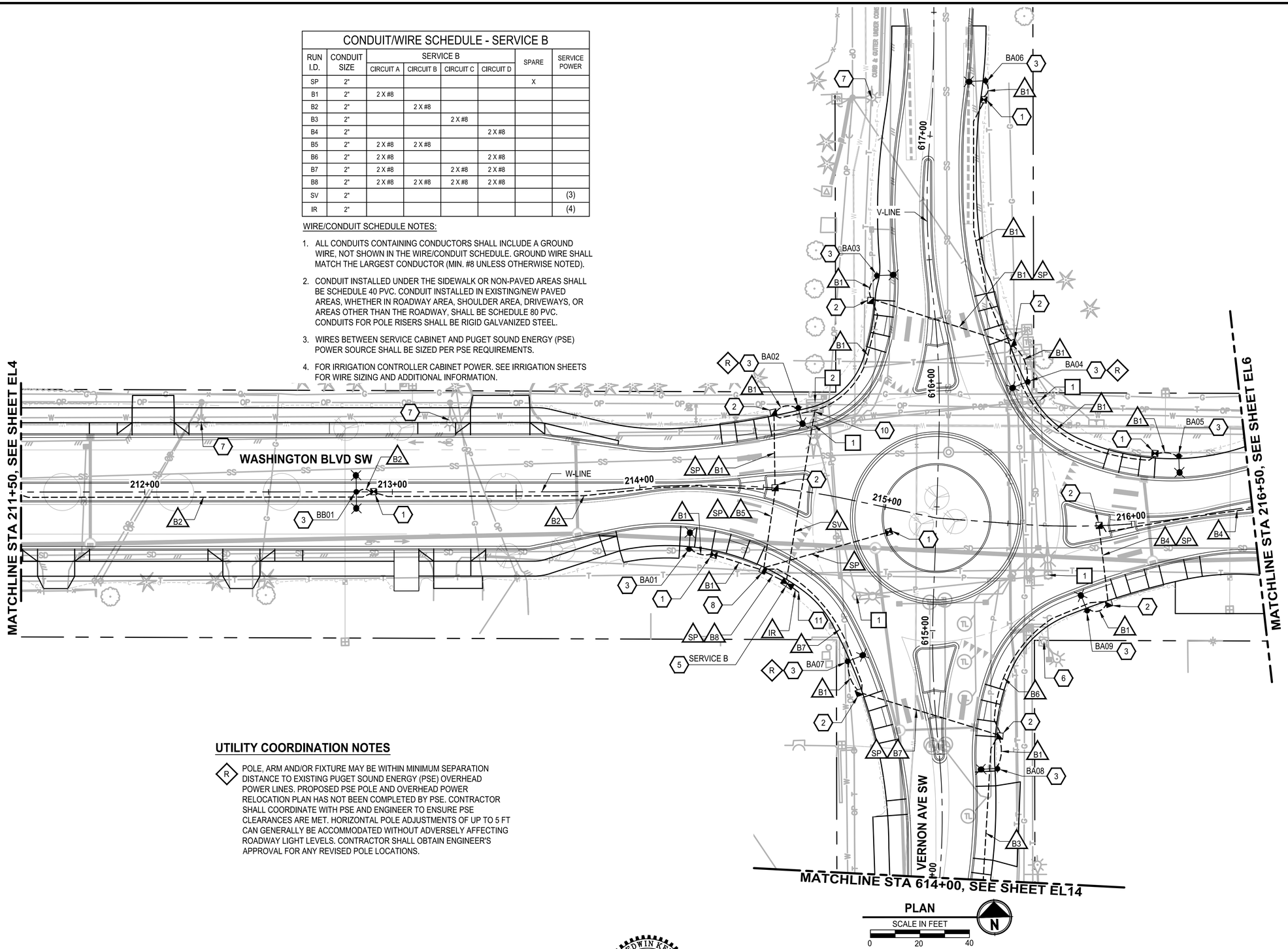
EL4


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokot DATE: Wednesday, January 26, 2022 1:36:23 PM
LAYOUT: EL4

| CONDUIT/WIRE SCHEDULE - SERVICE B | | | | | | | |
|---|---|---|---|---|---|---|---|
| RUN I.D. | CONDUIT SIZE | SERVICE B | | | | SPARE | SERVICE POWER |
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| B1 | 2" | 2 X #8 | | | | | |
| B2 | 2" | | 2 X #8 | | | | |
| B3 | 2" | | | 2 X #8 | | | |
| B4 | 2" | | | | 2 X #8 | | |
| B5 | 2" | 2 X #8 | 2 X #8 | | | | |
| B6 | 2" | 2 X #8 | | | 2 X #8 | | |
| B7 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| B8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |
| IR | 2" | | | | | | (4) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.
4. FOR IRRIGATION CONTROLLER CABINET POWER. SEE IRRIGATION SHEETS FOR WIRE SIZING AND ADDITIONAL INFORMATION.




## UTILITY COORDINATION NOTES

R — POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
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3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL04-06
JOB No. 214-3047-013
DATE JANUARY 2022

MARC EDWIN KENDALL — STATE OF WASHINGTON — 52656 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.PARAMETRIX.COM

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2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 145 OF 169
EL5


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taykokat DATE: Wednesday, January 26, 2022 1:36:32 PM
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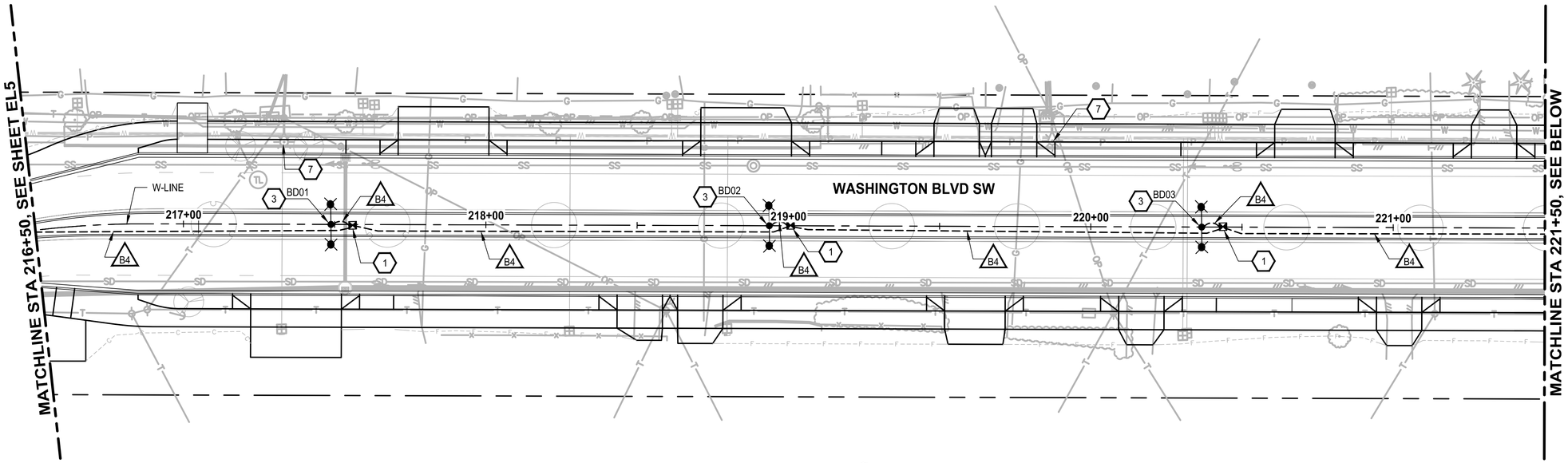
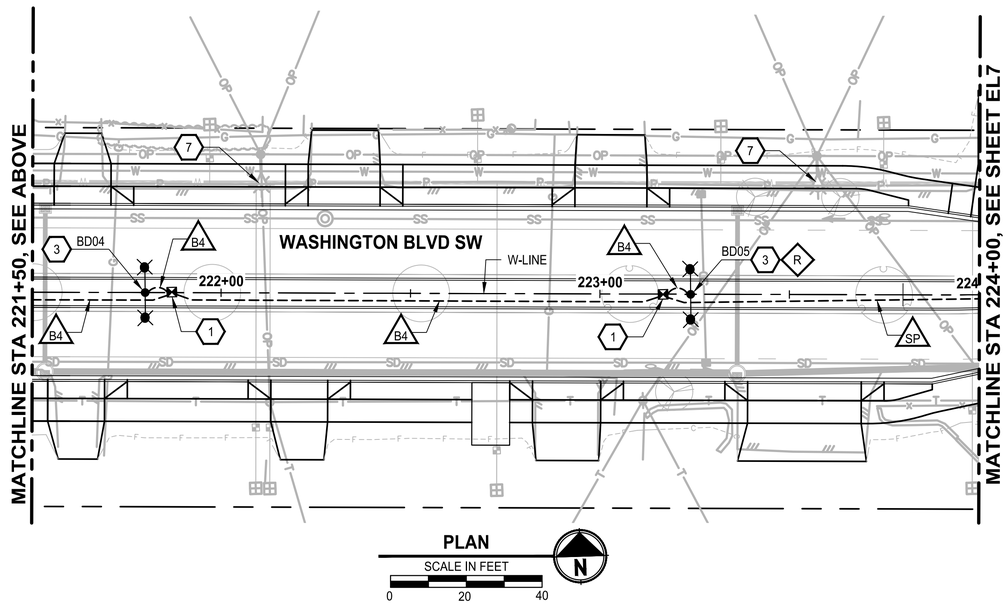



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## GENERAL NOTES

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## ILLUMINATION NOTES

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## UTILITY COORDINATION NOTES

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### CONDUIT/WIRE SCHEDULE - SERVICE B

| RUN I.D. | CONDUIT SIZE | SERVICE B | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| B1 | 2" | 2 X #8 | | | | | |
| B2 | 2" | | 2 X #8 | | | | |
| B3 | 2" | | | 2 X #8 | | | |
| B4 | 2" | | | | 2 X #8 | | |
| B5 | 2" | 2 X #8 | 2 X #8 | | | | |
| B6 | 2" | 2 X #8 | | | 2 X #8 | | |
| B7 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| B8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
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3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # — WIRE NOTE
- # — ILLUMINATION NOTE
- # — SIGNAL REMOVAL NOTE
- XY## — POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL04-06
JOB No. 214-3047-013
DATE JANUARY 2022

MARC EDWIN KENDALL — STATE OF WASHINGTON — 52658 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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WWW.BCRADESIGN.COM


PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 146 OF 169
EL6


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Sves\CADD\DWG PLOTTED BY: toykokat DATE: Wednesday, January 26, 2022 1:36:48 PM
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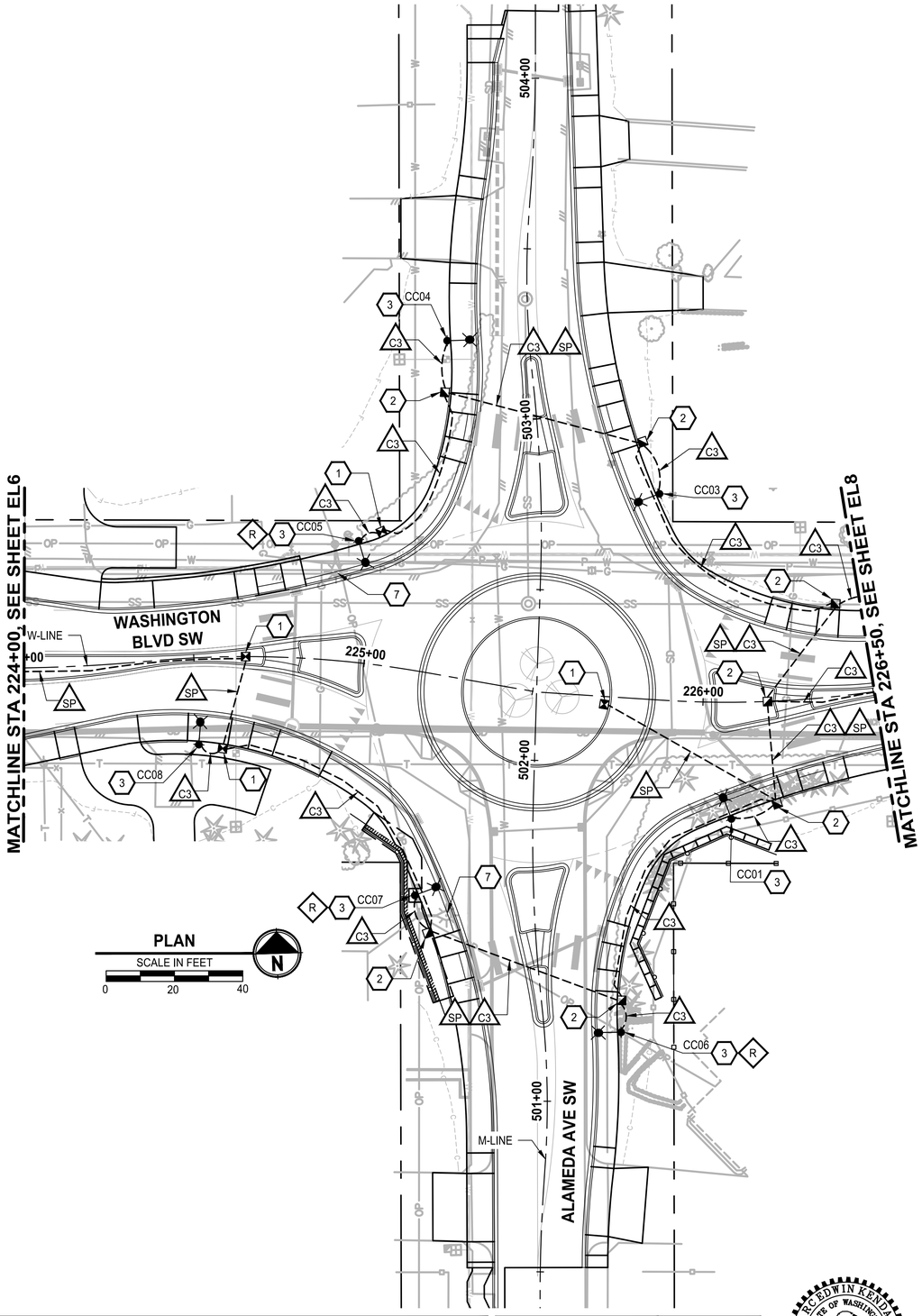


| CONDUIT/WIRE SCHEDULE - SERVICE C | | | | | | | |
|---|---|---|---|---|---|---|---|
| RUN I.D. | CONDUIT SIZE | SERVICE C | | | | SPARE | SERVICE POWER |
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| C1 | 2" | 2 X #8 | | | | | |
| C2 | 2" | | 2 X #8 | | | | |
| C3 | 2" | | | 2 X #8 | | | |
| C4 | 2" | | | | 2 X #8 | | |
| C5 | NOT USED | | | | | | |
| C6 | 2" | | 2 X #8 | 2 X #8 | | | |
| C7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | | | |
| C8 | 2" | 2 X #8 | | | 2 X #8 | | |
| C9 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- WIRE NOTE
- ILLUMINATION NOTE
- SIGNAL REMOVAL NOTE
- POLE IDENTIFICATION (XY##: STREET LIGHT ID, CIRCUIT ID, SERVICE ID)

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL07-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA ●1996●

MARC EDWIN KENDALL — STATE OF WASHINGTON — 52658 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 147 OF 169
EL7


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokat DATE: Wednesday, January 26, 2022 1:38:03 PM
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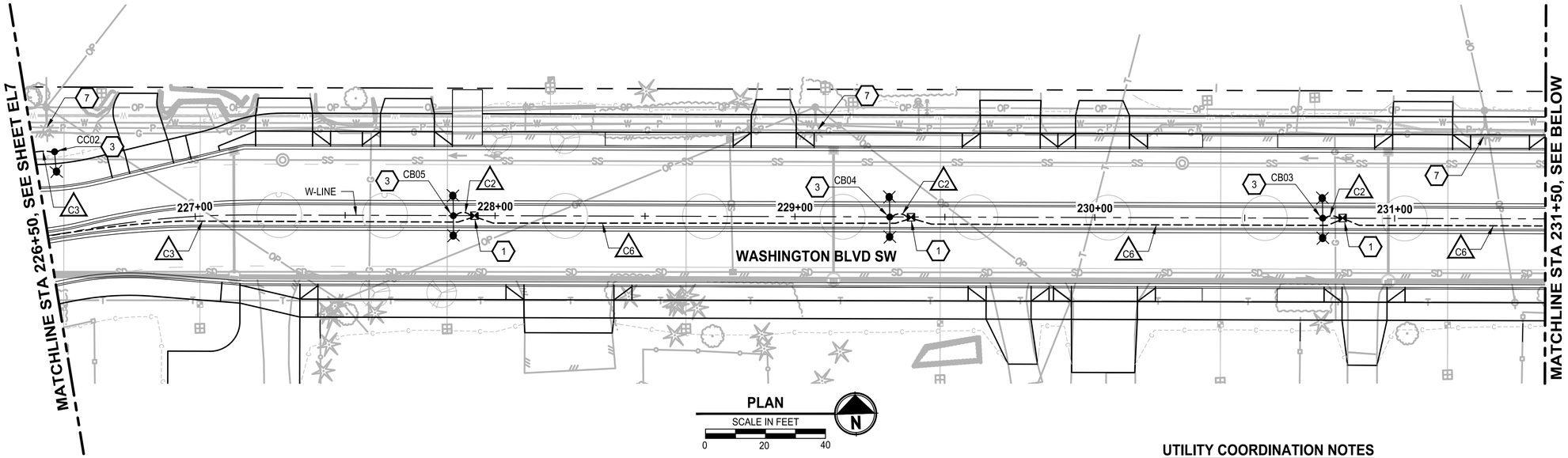
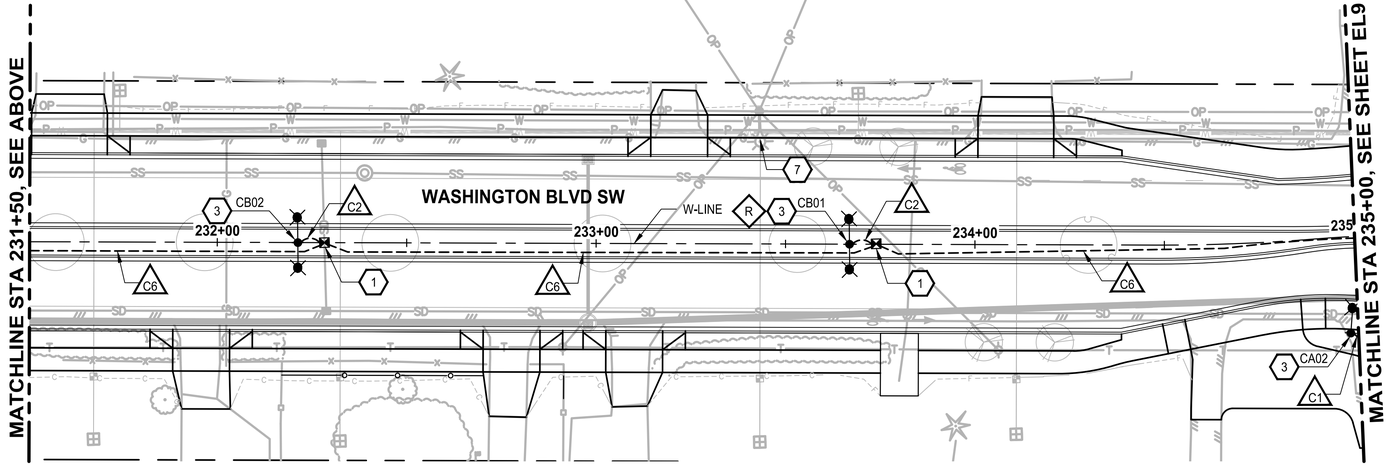



PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## GENERAL NOTES

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## ILLUMINATION NOTES

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## UTILITY COORDINATION NOTES

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## CONDUIT/WIRE SCHEDULE - SERVICE C

| RUN I.D. | CONDUIT SIZE | SERVICE C | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| C1 | 2" | 2 X #8 | | | | | |
| C2 | 2" | | 2 X #8 | | | | |
| C3 | 2" | | | 2 X #8 | | | |
| C4 | 2" | | | | 2 X #8 | | |
| C5 | NOT USED | | | | | | |
| C6 | 2" | | 2 X #8 | 2 X #8 | | | |
| C7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | | | |
| C8 | 2" | 2 X #8 | | | 2 X #8 | | |
| C9 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
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## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
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## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL07-10
JOB No. 214-3047-013
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MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
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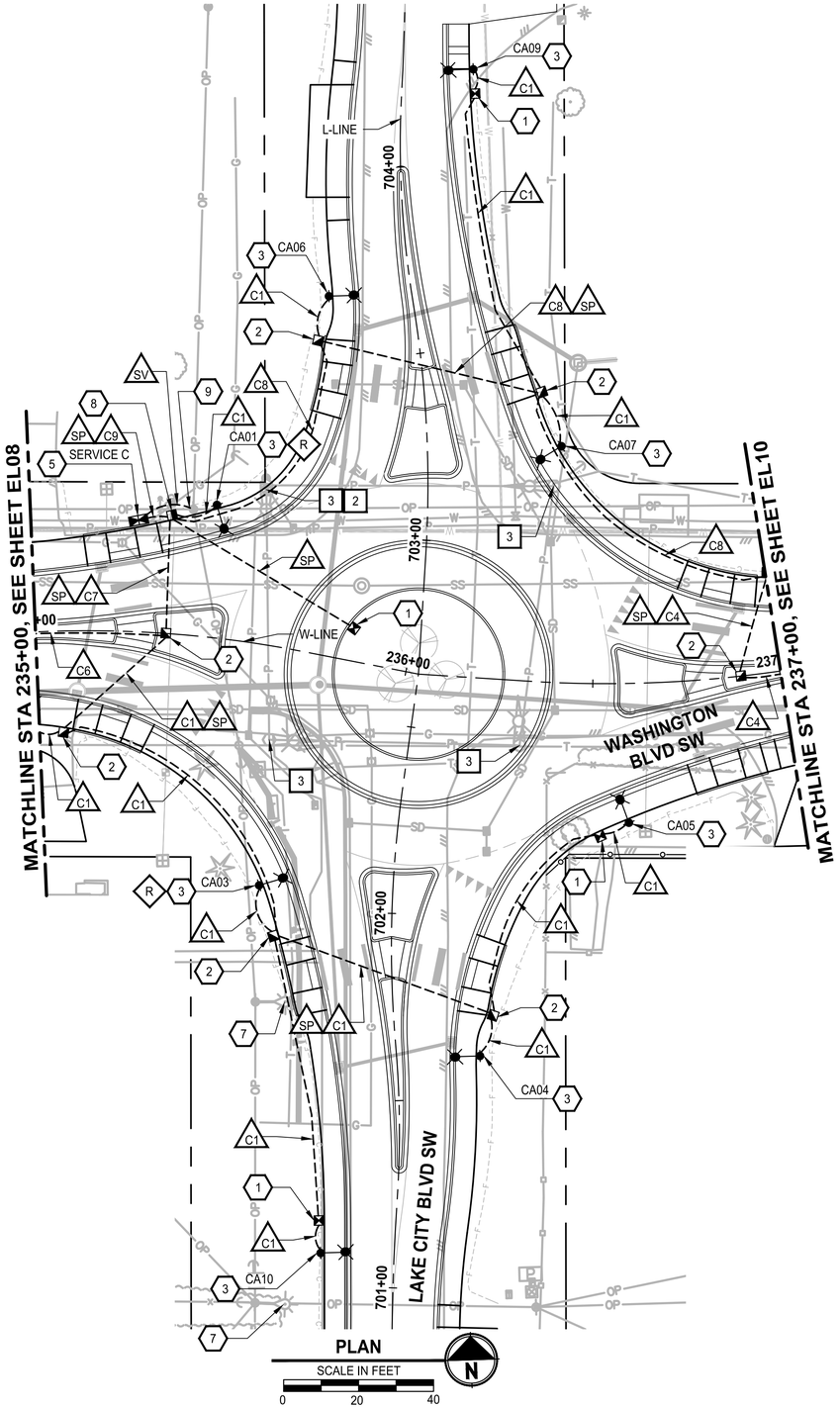
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 148 OF 169
**EL8**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Scs\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 26, 2022 1:38:18 PM LAYOUT: EL8




## UTILITY COORDINATION NOTES

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## CONDUIT/WIRE SCHEDULE - SERVICE C

| RUN I.D. | CONDUIT SIZE | SERVICE C | | | | SPARE | SERVICE POWER |
|---|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| C1 | 2" | 2 X #8 | | | | | |
| C2 | 2" | | 2 X #8 | | | | |
| C3 | 2" | | | 2 X #8 | | | |
| C4 | 2" | | | | 2 X #8 | | |
| C5 | NOT USED | | | | | | |
| C6 | 2" | | 2 X #8 | 2 X #8 | | | |
| C7 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | | | |
| C8 | 2" | 2 X #8 | | | 2 X #8 | | |
| C9 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

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## GENERAL NOTES

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## ILLUMINATION NOTES

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2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
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6. EXISTING PSE LUMINAIRE TO REMAIN.
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8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
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10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

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## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- WIRE NOTE
- ILLUMINATION NOTE
- SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL07-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52656 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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P 253.627.4367
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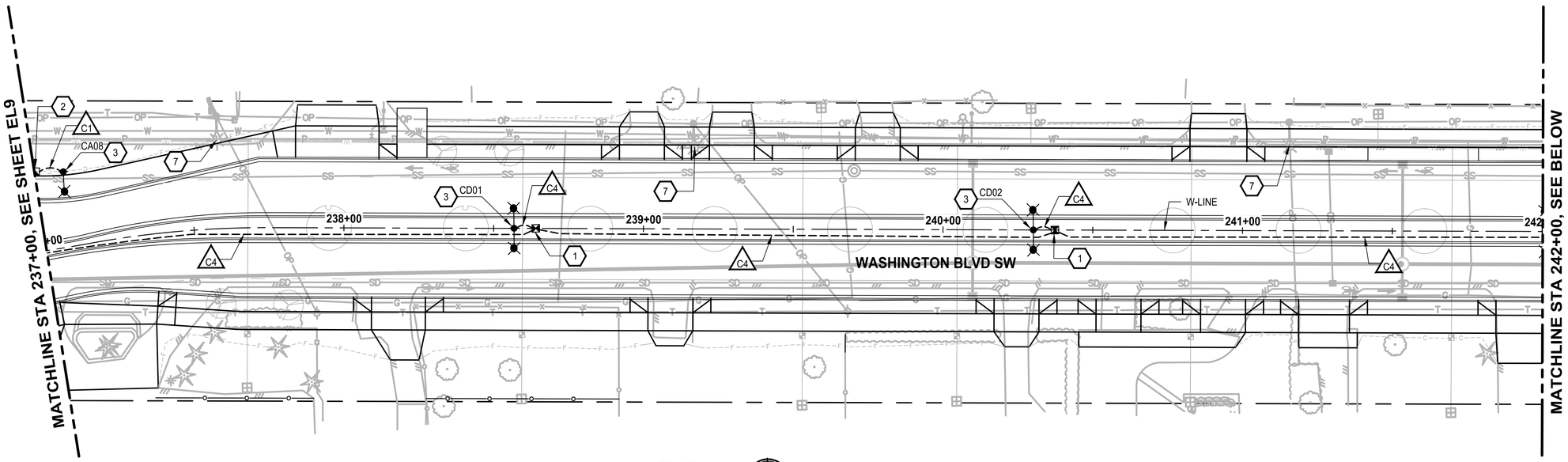
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

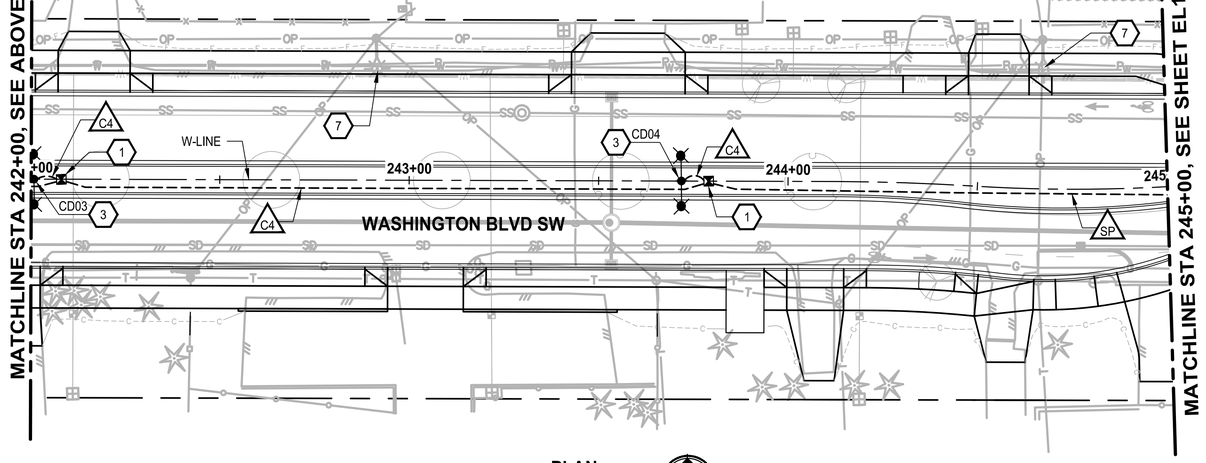
# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO.
149 OF 169
**EL9**

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:38:27 PM
LAYOUT: EL9




PLAN
SCALE IN FEET
0 20 40




PLAN
SCALE IN FEET
0 20 40

## UTILITY COORDINATION NOTES

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| CONDUIT/WIRE SCHEDULE - SERVICE C | | | | | | | |
|---|---|---|---|---|---|---|---|
| RUN I.D. | CONDUIT SIZE | SERVICE C | | | | SPARE | SERVICE POWER |
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| C1 | 2" | 2 X #8 | | | | | |
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8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- (#) WIRE NOTE
- (#) ILLUMINATION NOTE
- [#] SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL07-10
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52858 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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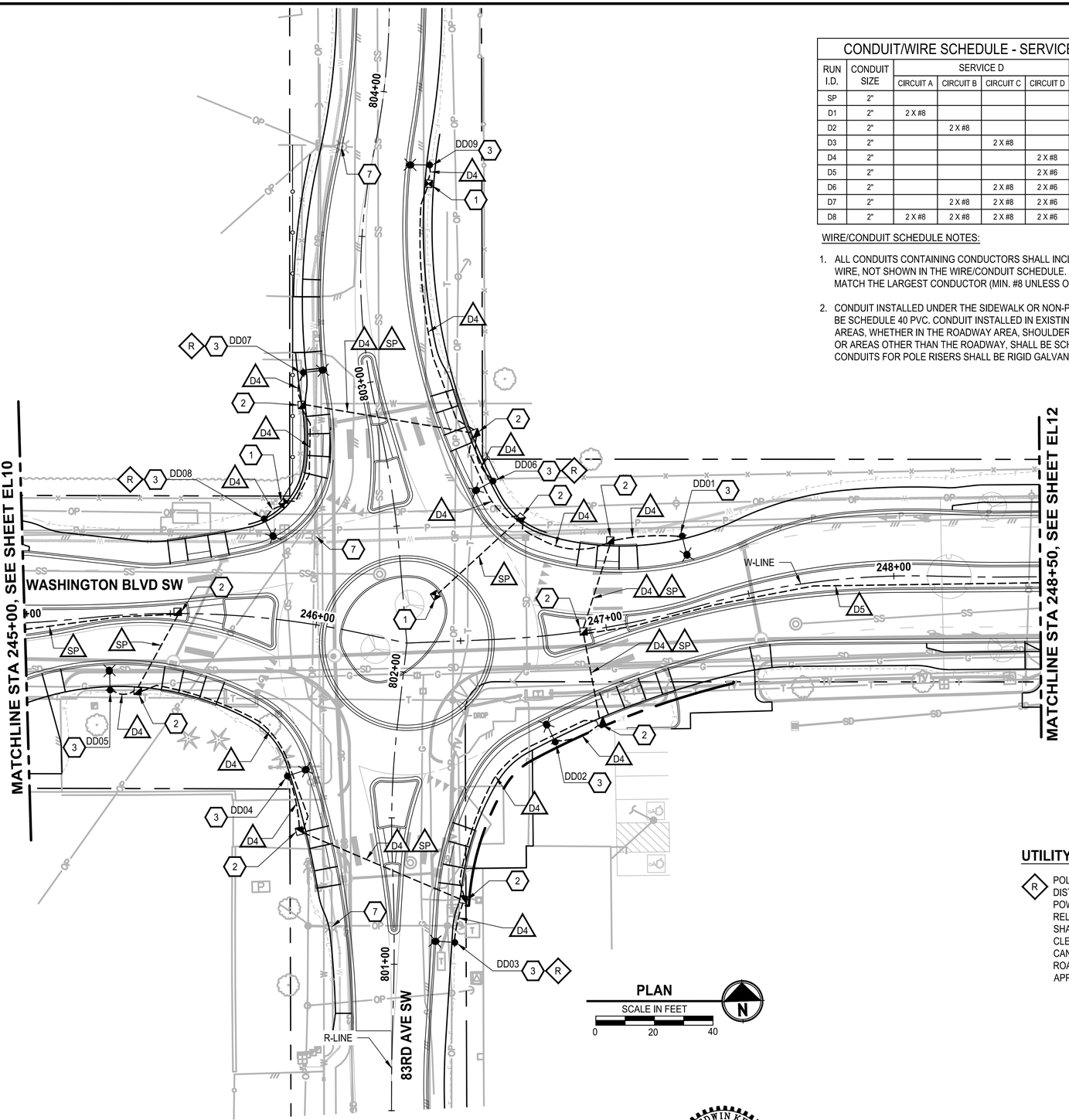
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 150 OF 169
EL10


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 26, 2022 1:38:42 PM
LAYOUT: EL10




## CONDUIT/WIRE SCHEDULE - SERVICE D

| RUN I.D. | CONDUIT SIZE | SERVICE D | | | | SPARE |
|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | |
| SP | 2" | | | | | X |
| D1 | 2" | 2 X #8 | | | | |
| D2 | 2" | | 2 X #8 | | | |
| D3 | 2" | | | 2 X #8 | | |
| D4 | 2" | | | | 2 X #8 | |
| D5 | 2" | | | | 2 X #6 | |
| D6 | 2" | | | 2 X #8 | 2 X #6 | |
| D7 | 2" | | 2 X #8 | 2 X #8 | 2 X #6 | |
| D8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #6 | |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN THE ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL11-12
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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P 253.627.4367
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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 151 OF 169
EL11

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Wednesday, January 26, 2022 1:40:33 PM
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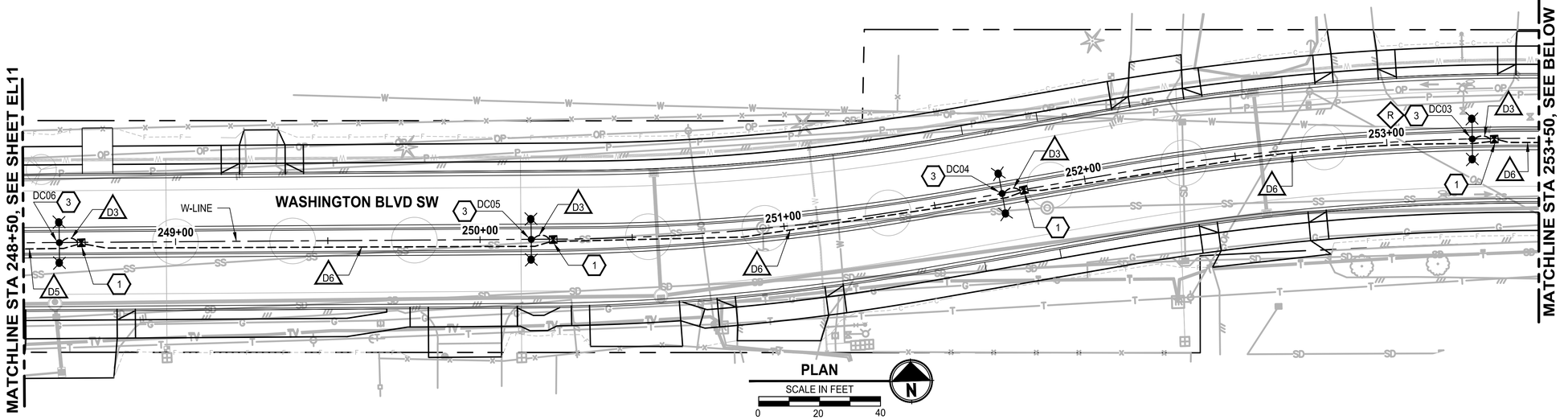
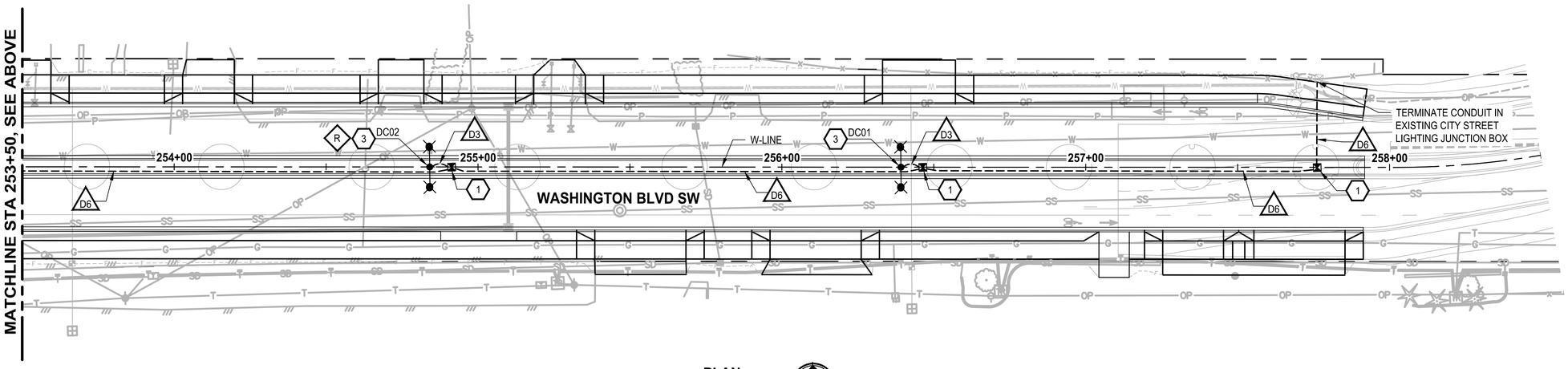



PLAN

SCALE IN FEET

0 20 40




PLAN

SCALE IN FEET

0 20 40

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

## CONDUIT/WIRE SCHEDULE - SERVICE D

| RUN I.D. | CONDUIT SIZE | SERVICE D | | | | SPARE |
|---|---|---|---|---|---|---|
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | |
| SP | 2" | | | | | X |
| D1 | 2" | 2 X #8 | | | | |
| D2 | 2" | | 2 X #8 | | | |
| D3 | 2" | | | 2 X #8 | | |
| D4 | 2" | | | | 2 X #8 | |
| D5 | 2" | | | | 2 X #6 | |
| D6 | 2" | | | 2 X #8 | 2 X #6 | |
| D7 | 2" | | 2 X #8 | 2 X #8 | 2 X #6 | |
| D8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #6 | |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN THE ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-EL11-12
JOB No. 214-3047-013
DATE JANUARY 2022

MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN WASHINGTON BLVD SW

DRAWING NO. 152 OF 169

EL12


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: tayokat DATE: Friday, January 28, 2022 8:32:37 AM
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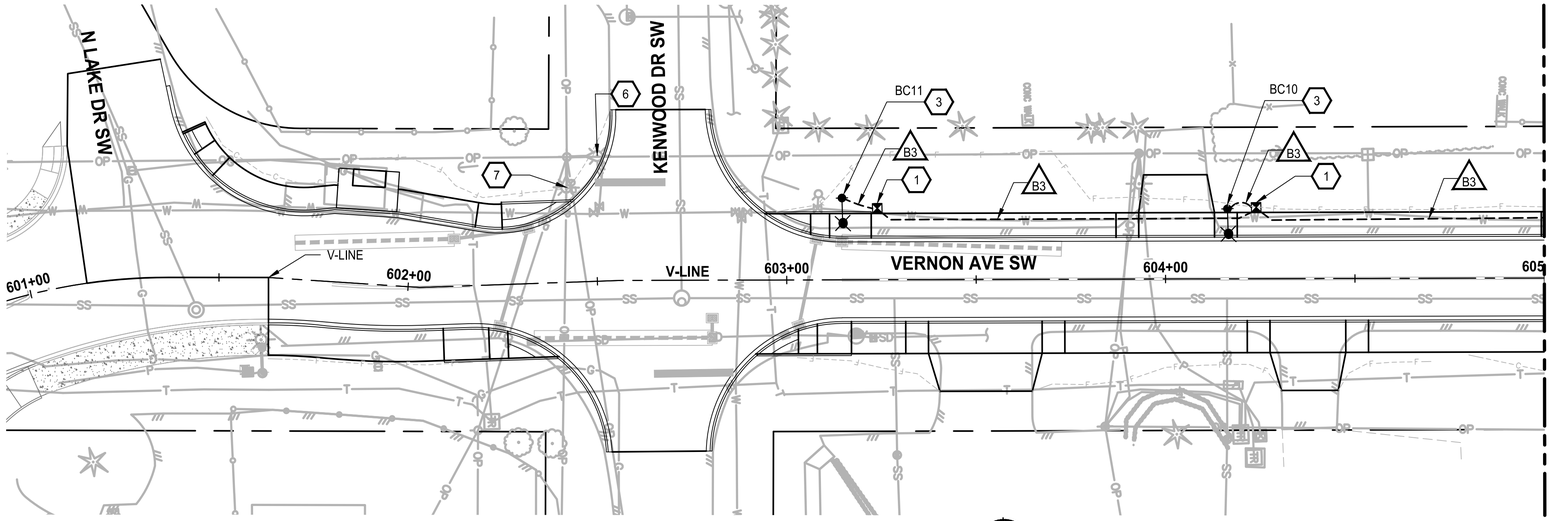


PLAN
SCALE IN FEET
0 20 40

| CONDUIT/WIRE SCHEDULE - SERVICE B | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RUN I.D. | CONDUIT SIZE | SERVICE B | | | | SPARE | SERVICE POWER |
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| B1 | 2" | 2 X #8 | | | | | |
| B2 | 2" | | 2 X #8 | | | | |
| B3 | 2" | | | 2 X #8 | | | |
| B4 | 2" | | | | 2 X #8 | | |
| B5 | 2" | 2 X #8 | 2 X #8 | | | | |
| B6 | 2" | 2 X #8 | | | 2 X #8 | | |
| B7 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| B8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
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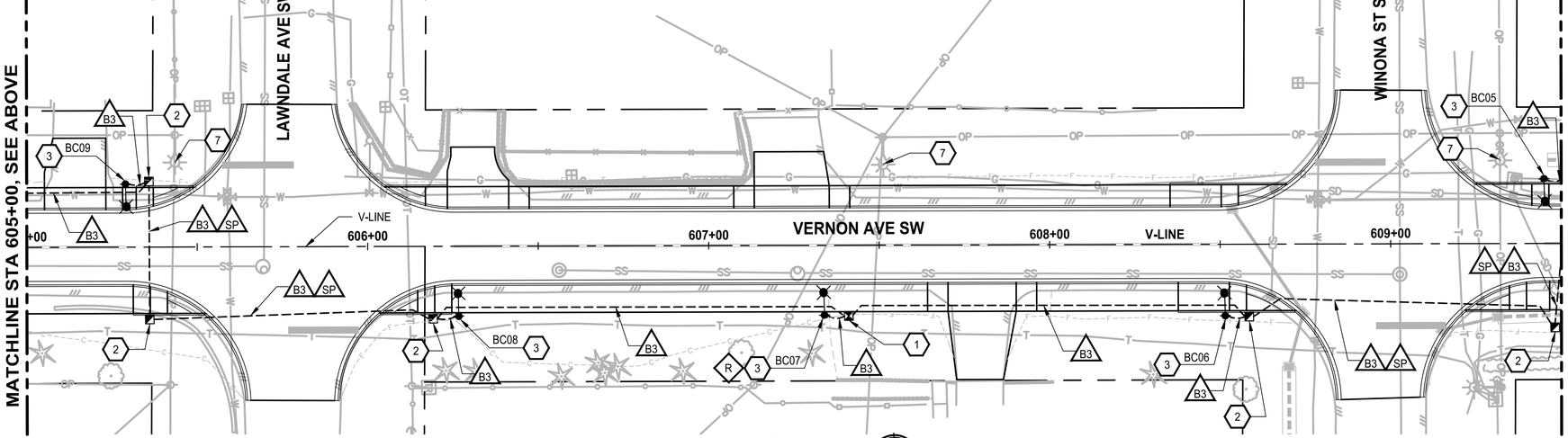
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID




PLAN
SCALE IN FEET
0 20 40

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL13-14
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52658 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN VERNON AVE SW

DRAWING NO. 153 OF 169
EL13

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
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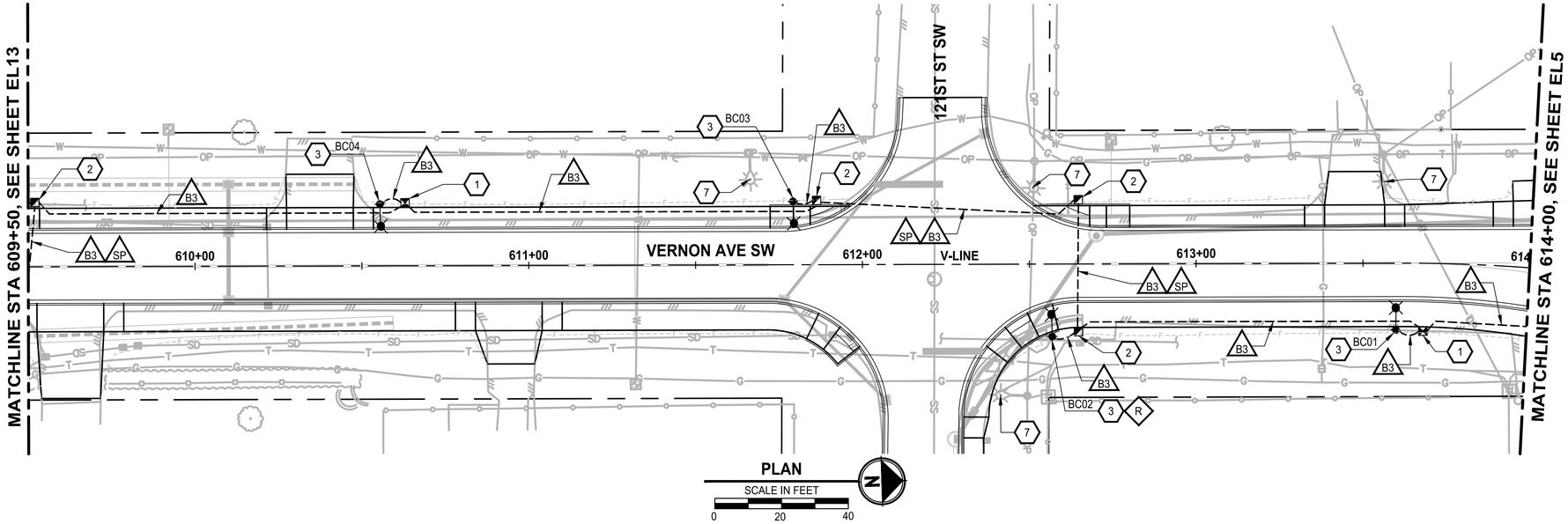


| CONDUIT/WIRE SCHEDULE - SERVICE B | | | | | | | |
|---|---|---|---|---|---|---|---|
| RUN I.D. | CONDUIT SIZE | SERVICE B | | | | SPARE | SERVICE POWER |
| | | CIRCUIT A | CIRCUIT B | CIRCUIT C | CIRCUIT D | | |
| SP | 2" | | | | | X | |
| B1 | 2" | 2 X #8 | | | | | |
| B2 | 2" | | 2 X #8 | | | | |
| B3 | 2" | | | 2 X #8 | | | |
| B4 | 2" | | | | 2 X #8 | | |
| B5 | 2" | 2 X #8 | 2 X #8 | | | | |
| B6 | 2" | 2 X #8 | | | 2 X #8 | | |
| B7 | 2" | 2 X #8 | | 2 X #8 | 2 X #8 | | |
| B8 | 2" | 2 X #8 | 2 X #8 | 2 X #8 | 2 X #8 | | |
| SV | 2" | | | | | | (3) |

WIRE/CONDUIT SCHEDULE NOTES:

1. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE A GROUND WIRE, NOT SHOWN IN THE WIRE/CONDUIT SCHEDULE. GROUND WIRE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
2. CONDUIT INSTALLED UNDER THE SIDEWALK OR NON-PAVED AREAS SHALL BE SCHEDULE 40 PVC. CONDUIT INSTALLED IN EXISTING/NEW PAVED AREAS, WHETHER IN ROADWAY AREA, SHOULDER AREA, DRIVEWAYS, OR AREAS OTHER THAN THE ROADWAY, SHALL BE SCHEDULE 80 PVC. CONDUITS FOR POLE RISERS SHALL BE RIGID GALVANIZED STEEL.
3. WIRES BETWEEN SERVICE CABINET AND PUGET SOUND ENERGY (PSE) POWER SOURCE SHALL BE SIZED PER PSE REQUIREMENTS.

## UTILITY COORDINATION NOTES

R POLE, ARM AND/OR FIXTURE MAY BE WITHIN MINIMUM SEPARATION DISTANCE TO EXISTING PUGET SOUND ENERGY (PSE) OVERHEAD POWER LINES. PROPOSED PSE POLE AND OVERHEAD POWER RELOCATION PLAN HAS NOT BEEN COMPLETED BY PSE. CONTRACTOR SHALL COORDINATE WITH PSE AND ENGINEER TO ENSURE PSE CLEARANCES ARE MET. HORIZONTAL POLE ADJUSTMENTS OF UP TO 5 FT CAN GENERALLY BE ACCOMMODATED WITHOUT ADVERSELY AFFECTING ROADWAY LIGHT LEVELS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ANY REVISED POLE LOCATIONS.

## GENERAL NOTES

1. UTILITY LOCATION PRIOR TO CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. JUNCTION BOXES SHALL BE INSTALLED FLUSH AND ADJACENT TO SIDEWALK/CURB WITH A CONCRETE COLLAR (WHERE APPLICABLE), UNLESS OTHERWISE NOTED ON THE PLANS.
3. CONDUIT LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC.
4. ALL EQUIPMENT AND CONDUIT SHALL BE GROUNDED PER NEC REQUIREMENTS.

## ILLUMINATION NOTES

1. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 1 PER WSDOT STANDARD PLAN J-40.10-04.
2. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 2 PER WSDOT STANDARD PLAN J-40.10-04.
3. CONSTRUCT STREET LIGHT STANDARD FOUNDATION, POLE, ARM(S) AND LUMINAIRE(S) PER COL STD DWG IS-06, AND LUMINAIRE SCHEDULE ON SHEET EL15.
4. INSTALL CONDUIT INTO CABINET AT BACK OF WALL. SPLICE SIGN BACK-LIGHTING WIRE TO CIRCUIT IN CABINET.
5. CONSTRUCT SERVICE CABINET PEDESTAL PER COL STD DWG IS-04. INSTALL SERVICE CABINET TYPE D PER WSDOT STANDARD PLAN J-10.21-02 ON PEDESTAL.
6. EXISTING PSE LUMINAIRE TO REMAIN.
7. EXISTING PSE LUMINAIRE TO BE REMOVED (BY PSE).
8. INSTALL LOCKING LID STANDARD DUTY JUNCTION BOX, TYPE 8 PER WSDOT STANDARD PLAN J-40.30-04.
9. INSTALL CONDUIT AND SERVICE WIRING TO EXISTING UTILITY POLE. INSTALL CONDUIT TO 10' UP THE POLE WITH SUFFICIENT SERVICE WIRE TO REACH POINT OF CONNECTION PER PSE STANDARDS. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION.
10. COORDINATE WITH PSE TO COMPLETE SERVICE CONNECTION AT LOCATION OF EXISTING SERVICE CABINET.
11. TERMINATE CONDUIT AT IRRIGATION CONTROLLER CABINET. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

## SIGNAL REMOVAL NOTES

1. REMOVE AND SALVAGE TO CITY EXISTING STEEL SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT AND SIGNAL HEADS. REMOVE FOUNDATION, WIRE, CONDUIT TO NEAREST JUNCTION BOX(ES) AND JUNCTION BOX(ES).
2. REMOVE AND SALVAGE TO CITY EXISTING SIGNAL CONTROLLER AND/OR SERVICE CABINET(S) AND ALL ALL ASSOCIATED EQUIPMENT TO CITY. REMOVE FOUNDATION (IF PRESENT), WIRE AND CONDUIT TO NEAREST JUNCTION BOX. COORDINATE DECOMMISSIONING OF SERVICE WITH PSE PRIOR TO REMOVAL.
3. REMOVE EXISTING WOOD POLE AND SPAN WIRE. SALVAGE SIGNAL HEADS TO CITY.

## ILLUMINATION LEGEND

- STREET LIGHT
- SERVICE CABINET
- JUNCTION BOX - TYPE 1
- JUNCTION BOX - TYPE 2
- JUNCTION BOX - TYPE 8
- UNDERGROUND CONDUIT
- # WIRE NOTE
- # ILLUMINATION NOTE
- # SIGNAL REMOVAL NOTE
- XY## POLE IDENTIFICATION
  - STREET LIGHT ID
  - CIRCUIT ID
  - SERVICE ID

| REVISIONS | DATE | BY |
|---|---|---|
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DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL13-14
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MARC EDWIN KENDALL STATE OF WASHINGTON 52656 REGISTERED PROFESSIONAL ENGINEER
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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN VERNON AVE SW

DRAWING NO.
154 OF 169
EL14

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: taylokat DATE: Wednesday, January 26, 2022 1:42:27 PM
LAYOUT: EL14

## LUMINAIRE SCHEDULE FOR "SERVICE A" CABINET AT NORTHGATE RD/EDGEWOOD AVE ROUNDABOUT

| POLE # | CIRCUIT | ALIGNMENT | STATION (1) | OFFSET (1) | TOP OF FOUND. ELEVATION (8) | MOUNTING HEIGHT | ARM LENGTH | ORIENTATION ANGLE (2) | LUMINAIRE TYPE | SHEET REFERENCE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AA01 | A | E | 303+21.3 | 21.1' LT | 243.95 | 25' | 4' | 0 | 3D | EL2 | |
| AA02 | A | E | 302+75.5 | 33.9' RT | 245.07 | 25' | 4' | 335 | 3D | EL2 | NOTE 4 |
| AA03 | A | N | 414+28.3 | 24.4' LT | 245.63 | 25' | 4' | 0 | 3D | EL2 | |
| AA04 | A | E | 302+57.7 | 58.5' LT | 243.36 | 25' | 4' | 60 | 3D | EL2 | NOTE 5 |
| AA05 | A | N | 412+28.4 | 22.6' RT | 243.92 | 25' | 4' | 5 | 3D | EL2 | |
| AA06 | A | E | 301+65.6 | 33.1' LT | 245.65 | 25' | 4' | 345 | 3D | EL2 | |
| AA07 | A | E | 301+21.3 | 22.3' RT | 245.81 | 25' | 4' | 0 | 3D | EL2 | |
| AA08 | A | N | 413+83.9 | 34.1' RT | 246.02 | 25' | 4' | 340 | 3D | EL2 | |
| AB01 | B | N | 410+84.0 | 24.0' LT | 242.24 | 25' | 4' | 0 | 3C | EL2 | |
| AB02 | B | N | 409+50.6 | 23.5' RT | 240.93 | 25' | 4' | 0 | 3C | EL1 | |
| AB03 | B | N | 408+15.4 | 23.5' LT | 240.62 | 25' | 4' | 0 | 3C | EL1 | |
| AB04 | B | N | 406+81.9 | 23.5' RT | 241.36 | 25' | 4' | 0 | 3C | EL1 | |
| AB05 | B | N | 405+47.3 | 23.5' LT | 242.35 | 25' | 4' | 0 | 3C | EL1 | |
| AB06 | B | N | 404+14.5 | 23.5' RT | 243.33 | 25' | 4' | 0 | 3C | EL1 | |
| AB07 | B | N | 402+83.6 | 23.5' LT | 243.85 | 25' | 4' | 0 | 3C | EL1 | |
| AB08 | B | N | 401+50.0 | 23.5' RT | 243.51 | 25' | 4' | 0 | 3C | EL1 | |
| AC01 | C | E | 304+15.4 | 23.4' RT | 243.18 | 25' | 4' | 0 | 3D | EL3 | |
| AC02 | C | E | 305+13.2 | 24.0' LT | 242.37 | 25' | 4' | 0 | 3D | EL3 | |
| AC03 | C | E | 306+02.4 | 23.5' RT | 242.69 | 25' | 4' | 0 | 3D | EL3 | |
| AC04 | C | E | 307+13.6 | 22.7' LT | 242.31 | 25' | 4' | 0 | 3D | EL3 | |
| AD01 | D | W | 205+45.0 | 37.6' RT | 241.15 | 25' | 4' | 335 | 3D | EL3 | |
| AD02 | D | W | 205+89.7 | 24.0' LT | 240.34 | 25' | 4' | 5 | 3D | EL4 | |
| AD03 | D | W | 205+14.7 | 47.8' LT | 241.74 | 25' | 4' | 20 | 3D | EL3 | |
| AD04 | D | W | 204+37.0 | 33.6' LT | 241.70 | 25' | 4' | 340 | 3D | EL3 | |
| AD05 | D | E | 307+71.9 | 21.0' RT | 241.52 | 25' | 4' | 0 | 3D | EL3 | |
| AD06 | D | E | 308+14.4 | 33.8' LT | 242.18 | 25' | 4' | 340 | 3D | EL3 | |
| AD07 | D | W | 203+86.9 | 24.7' RT | 241.50 | 25' | 4' | 0 | 3D | EL3 | |

## LUMINAIRE SCHEDULE FOR "SERVICE B" CABINET AT WASHINGTON AVE/VERNON AVE ROUNDABOUT

| POLE # | CIRCUIT | ALIGNMENT | STATION (1) | OFFSET (1) | TOP OF FOUND. ELEVATION (8) | MOUNTING HEIGHT | ARM LENGTH | ORIENTATION ANGLE (2) | LUMINAIRE TYPE | SHEET REFERENCE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BA01 | A | W | 214+19.5 | 25.8' RT | 247.02 | 25' | 4' | 5 | 3C | EL5 | |
| BA02 | A | W | 214+60.3 | 33.2' LT | 247.31 | 25' | 4' | 340 | 3C | EL5 | |
| BA03 | A | V | 616+45.6 | 21.6' LT | 246.33 | 25' | 4' | 5 | 3C | EL5 | |
| BA04 | A | V | 615+99.7 | 35.9' RT | 247.33 | 25' | 4' | 340 | 3C | EL5 | |
| BA05 | A | W | 216+23.1 | 25.0' LT | 247.83 | 25' | 4' | 5 | 3C | EL5 | |
| BA06 | A | V | 617+23.1 | 21.2' RT | 245.41 | 25' | 4' | 0 | 3C | EL5 | |
| BA07 | A | V | 614+88.3 | 34.4' LT | 247.52 | 25' | 4' | 340 | 3C | EL5 | |
| BA08 | A | V | 614+42.6 | 23.0' RT | 247.54 | 25' | 4' | 0 | 3C | EL5 | |
| BA09 | A | W | 215+81.5 | 34.2' RT | 248.12 | 25' | 4' | 340 | 3C | EL5 | |
| BB01 | B | W | 212+85.4 | 0.0' | 246.12 | 30' | 2 X 4' | 0 | 2 X 3B | EL5 | NOTE 7 |
| BB02 | B | W | 211+39.8 | 0.0' | 244.91 | 30' | 2 X 4' | 0 | 2 X 3B | EL4 | NOTE 7 |
| BB03 | B | W | 209+96.6 | 0.0' | 243.72 | 30' | 2 X 4' | 0 | 2 X 3B | EL4 | NOTE 7 |
| BB04 | B | W | 208+53.7 | 0.0' | 242.53 | 30' | 2 X 4' | 0 | 2 X 3B | EL4 | NOTE 7 |
| BB05 | B | W | 207+11.0 | 0.0' | 241.34 | 30' | 2 X 4' | 0 | 2 X 3B | EL4 | NOTE 7 |
| BC01 | C | V | 613+59.8 | 20.0' RT | 248.34 | 25' | 4' | 0 | 3A | EL14 | |
| BC02 | C | V | 612+56.8 | 21.7' RT | 249.00 | 25' | 4' | 0 | 3D | EL14 | |
| BC03 | C | V | 611+79.2 | 19.0' LT | 248.09 | 25' | 4' | 0 | 3D | EL14 | |
| BC04 | C | V | 610+55.4 | 18.5' LT | 246.39 | 25' | 4' | 0 | 3A | EL14 | |
| BC05 | C | V | 609.45.0 | 19.0' LT | 247.14 | 25' | 4' | 0 | 3D | EL13 | |
| BC06 | C | V | 608+51.5 | 21.0' RT | 252.73 | 25' | 4' | 0 | 3D | EL13 | |
| BC07 | C | V | 607+33.9 | 20.5' RT | 259.90 | 25' | 4' | 0 | 3A | EL13 | |
| BC08 | C | V | 606+26.7 | 20.5' RT | 262.91 | 25' | 4' | 0 | 3D | EL13 | |
| BC09 | C | V | 605+29.0 | 18.5' LT | 262.88 | 25' | 4' | 0 | 3D | EL13 | |
| BC10 | C | V | 604+16.4 | 18.5' LT | 260.25 | 25' | 4' | 0 | 3A | EL13 | |
| BC11 | C | V | 603+14.6 | 21.5' LT | 257.85 | 25' | 4' | 0 | 3D | EL13 | NOTE 10 |
| BD01 | D | W | 217+48.8 | 0.0' | 248.71 | 30' | 2 X 4' | 0 | 2 X 3B | EL6 | NOTE 7 |
| BD02 | D | W | 218+93.7 | 0.0' | 249.30 | 30' | 2 X 4' | 0 | 2 X 3B | EL6 | NOTE 7 |
| BD03 | D | W | 220+36.7 | 0.0' | 249.18 | 30' | 2 X 4' | 0 | 2 X 3B | EL6 | NOTE 7 |
| BD04 | D | W | 221+80.0 | 0.0' | 248.46 | 30' | 2 X 4' | 0 | 2 X 3B | EL6 | NOTE 7 |
| BD05 | D | W | 223+23.9 | 0.0' | 247.74 | 30' | 2 X 4' | 0 | 2 X 3B | EL6 | NOTE 7 |

## LUMINAIRE SCHEDULE FOR "SERVICE C" CABINET AT WASHINGTON BLVD/LAKE CITY BLVD ROUNDABOUT

| POLE # | CIRCUIT | ALIGNMENT | STATION (1) | OFFSET (1) | TOP OF FOUND. ELEVATION (8) | MOUNTING HEIGHT | ARM LENGTH | ORIENTATION ANGLE (2) | LUMINAIRE TYPE | SHEET REFERENCE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CA01 | A | W | 235+45.1 | 35.4' LT | 262.66 | 25' | 4' | 340 | 3C | EL9 | |
| CA02 | A | W | 234+97.9 | 25.4' RT | 262.47 | 25' | 4' | 10 | 3C | EL8 | |
| CA03 | A | L | 702+05.8 | 35.7' LT | 263.03 | 25' | 4' | 340 | 3C | EL9 | |
| CA04 | A | L | 701+60.4 | 22.2' RT | 262.36 | 25' | 4' | 0 | 3C | EL9 | |
| CA05 | A | W | 236+59.0 | 37.1' RT | 263.01 | 25' | 4' | 340 | 3C | EL9 | |
| CA06 | A | L | 703+68.6 | 21.9' LT | 261.97 | 25' | 4' | 5 | 3C | EL9 | |
| CA07 | A | L | 703+24.0 | 35.8' RT | 262.77 | 25' | 4' | 330 | 3C | EL9 | |
| CA08 | A | W | 237+10.3 | 25.1' LT | 263.48 | 25' | 4' | 5 | 3C | EL10 | |
| CA09 | A | L | 704+26.9 | 18.8' RT | 262.46 | 25' | 4' | 0 | 3C | EL9 | |
| CA10 | A | L | 701+08.5 | 19.6' LT | 262.82 | 25' | 4' | 0 | 3C | EL9 | |
| CB01 | B | W | 233+66.9 | 0.0' | 262.62 | 30' | 2 X 4' | 0 | 2 X 3B | EL8 | NOTE 7 |
| CB02 | B | W | 232+21.3 | 0.0' | 261.82 | 30' | 2 X 4' | 0 | 2 X 3B | EL8 | NOTE 7 |
| CB03 | B | W | 230+76.0 | 0.0' | 261.03 | 30' | 2 X 4' | 0 | 2 X 3B | EL8 | NOTE 7 |
| CB04 | B | W | 229+31.6 | 0.0' | 260.24 | 30' | 2 X 4' | 0 | 2 X 3B | EL8 | NOTE 7 |
| CB05 | B | W | 227+86.1 | 0.0' | 259.45 | 30' | 2 X 4' | 0 | 2 X 3B | EL8 | NOTE 7 |
| CC01 | C | W | 226+08.2 | 34.1' RT | 255.55 | 25' | 4' | 340 | 3C | EL7 | |
| CC02 | C | W | 226+57.3 | 27.3' LT | 256.04 | 25' | 4' | 355 | 3C | EL8 | |
| CC03 | C | M | 502+77.2 | 34.7' RT | 253.76 | 25' | 4' | 340 | 3C | EL7 | |
| CC04 | C | M | 503+24.7 | 24.0' LT | 250.84 | 25' | 4' | 0 | 3C | EL7 | |
| CC05 | C | W | 224+94.8 | 35.5' LT | 253.24 | 25' | 4' | 340 | 3C | EL7 | |
| CC06 | C | M | 501+18.6 | 22.4' RT | 256.95 | 25' | 4' | 0 | 3C | EL7 | |
| CC07 | C | M | 501+61.6 | 34.8' LT | 255.08 | 25' | 4' | 340 | 3C | EL7 | NOTE 6 |
| CC08 | C | M | 224+50.2 | 25.4' RT | 251.68 | 25' | 4' | 10 | 3C | EL7 | |
| CD01 | D | W | 238+56.8 | 0.0' | 264.77 | 30' | 2 X 4' | 0 | 2 X 3B | EL10 | NOTE 7 |
| CD02 | D | W | 240+30.1 | 0.0' | 263.97 | 30' | 2 X 4' | 0 | 2 X 3B | EL10 | NOTE 7 |
| CD03 | D | W | 242+01.0 | 0.0' | 263.56 | 30' | 2 X 4' | 0 | 2 X 3B | EL10 | NOTE 7 |
| CD04 | D | W | 243+71.8 | 0.0' | 264.44 | 30' | 2 X 4' | 0 | 2 X 3B | EL10 | NOTE 7 |

## LUMINAIRE SCHEDULE FOR "SERVICE D" CABINET AT WASHINGTON BLVD/GRAVELLY LAKE DR ROUNDABOUT

| POLE # | CIRCUIT | ALIGNMENT | STATION (1) | OFFSET (1) | TOP OF FOUND. ELEVATION (8) | MOUNTING HEIGHT | ARM LENGTH | ORIENTATION ANGLE (2) | LUMINAIRE TYPE | SHEET REFERENCE | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DC01 | C | W | 256+39.2 | 0.0' | 267.58 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DC02 | C | W | 254+84.1 | 0.0' | 266.79 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DC03 | C | W | 253+28.1 | 0.0' | 265.99 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DC04 | C | W | 251+72.5 | 0.0' | 266.10 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DC05 | C | W | 250+16.8 | 0.0' | 267.03 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DC06 | C | W | 248+61.8 | 0.0' | 266.93 | 30' | 2 X 4' | 0 | 2 X 3B | EL12 | NOTE 7 |
| DD01 | D | W | 247+33.5 | 24.6' LT | 266.14 | 25' | 4' | 0 | 3C | EL11 | |
| DD02 | D | W | 246+78.7 | 36.4' RT | 267.23 | 25' | 4' | 340 | 3C | EL11 | |
| DD03 | D | R | 801+07.4 | 20.7' RT | 266.78 | 25' | 4' | 0 | 3C | EL11 | |
| DD04 | D | R | 801+62.4 | 36.0' LT | 267.01 | 25' | 4' | 340 | 3C | EL11 | |
| DD05 | D | W | 245+27.4 | 25.2' RT | 265.30 | 25' | 4' | 0 | 3C | EL11 | |
| DD06 | D | R | 802+60.5 | 34.7' RT | 266.48 | 25' | 4' | 340 | 3C | EL11 | |
| DD07 | D | R | 803+06.7 | 22.0' LT | 266.20 | 25' | 4' | 0 | 3C | EL11 | |
| DD08 | D | W | 245+79.0 | 33.7' LT | 266.37 | 25' | 4' | 330 | 3C | EL11 | |
| DD09 | D | R | 803+78.7 | 19.6' RT | 267.15 | 25' | 4' | 0 | 3C | EL11 | |

LUMINAIRE SCHEDULE NOTES:

1) STATIONS AND OFFSETS ARE TO THE CENTER OF THE POLE. TYPICALLY, FOUNDATIONS SHALL BE AT THE BACK OF SIDEWALK UNLESS OTHERWISE NOTED.
2) THE ORIENTATION ANGLE IS MEASURED CLOCKWISE, WITH 0° BEING PERPENDICULAR TO THE REFERENCED ALIGNMENT.
3) ALL LUMINAIRES SHALL BE TYPE 2M DISTRIBUTION, LED 2700 CCT WITH LOW GLARE OPTIC. ALL FIXTURES NOT IN CENTER MEDIAN SHALL INCLUDE BACKLIGHT SHIELDS. SEE SPECIAL PROVISIONS FOR ADDITIONAL FIXTURE REQUIREMENTS. SPECIFIC FIXTURES ARE LISTED BELOW AND IN THE SPECIAL PROVISIONS:
   A) MAX WATTAGE: 55 WATTS
      LUMEN OUTPUT: 5,000 LUMENS
   B) MAX WATTAGE: 85 WATTS
      LUMEN OUTPUT: 7,500 LUMENS
      SHIELD: FRONT SIDE SHIELD
   C) MAX WATTAGE: 85 WATTS
      LUMEN OUTPUT: 8,200 LUMENS
   D) MAX WATTAGE: 85 WATTS
      LUMEN OUTPUT: 8,200 LUMENS
      DIMMED TO APPX 80% OF FULL OUTPUT (APPX 6,800 LUMENS).
4) FOUNDATION PARTIALLY IN SIDEWALK TO STAY WITHIN EXISTING CITY RIGHT-OF-WAY.
5) POLE LOCATED BEHIND CIP FILL WALL WITH MINIMUM OFFSET OF 1 FOOT FROM BACK OF WALL TO POLE FOUNDATION. COORDINATE POLE FOUNDATION CONSTRUCTION WITH WALL CONSTRUCTION.
6) POLE LOCATED IN AREA OF CIP CUT WALL FOOTING. COORDINATE POLE FOUNDATION CONSTRUCTION WITH WALL CONSTRUCTION.
7) POLE INCLUDES BACK-TO-BACK 4 FT ARMS INSTALLED AT 180 DEGREES. POLE SHALL BE INSTALLED WITH OMNI-DIRECTIONAL BREAKAWAY SUPPORT COUPLING SYSTEM.
8) TOP OF FOUNDATION ELEVATIONS ARE APPROXIMATE AND BASED ON THE SURFACE CREATED IN CAD SOFTWARE. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS. IN GENERAL, TOP OF FOUNDATIONS SHALL BE 6" ABOVE FINISHED GRADE, PER COL STD DWG IS-06.
9) ALL STREET LIGHT POLES SHALL BE ALUMINUM.
10) FOUNDATION OFFSET FROM BACK OF SIDEWALK TO AVOID EXISTING WATER LINE CONFLICT.

LAYOUT: EL15 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Wednesday, January 26, 2022 1:42:37 PM

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DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL15
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #19968

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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN LUMINAIRE SCHEDULE

DRAWING NO.
155 OF 169
**EL15**

## BREAKER SCHEDULE - SERVICE A

| CIRCUIT | DESCRIPTION / LABEL | BRANCH BREAKER RATING | | CONTACTOR RATING | VOLTAGE | LOAD (KVA) |
|---|---|---|---|---|---|---|
| | | POLES | AMPS | | | |
| - | MAIN | 2 | 100A | N.A. | 240 | N.A. |
| A | ILLUM - RBT (NORTHGATE/EDGEWOOD) | 2 | 20A | 30 AMP | 240 | 4.76 |
| B | ILLUM - NORTHGATE (WEST) | 2 | 20A | 30 AMP | 240 | 4.76 |
| C | ILLUM - EDGEWOOD (NORTH) | 2 | 20A | 30 AMP | 240 | 2.38 |
| D | ILLUM - RBT (EDGEWOOD/WASHINGTON) | 2 | 20A | 30 AMP | 240 | 4.17 |
| BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM. | | | | | PEAK | 17.87 |
| | | | | | CONTINUOUS | 16.07 |

## BREAKER SCHEDULE - SERVICE B

| CIRCUIT | DESCRIPTION / LABEL | BRANCH BREAKER RATING | | CONTACTOR RATING | VOLTAGE | LOAD (KVA) |
|---|---|---|---|---|---|---|
| | | POLES | AMPS | | | |
| - | MAIN | 2 | 100A | N.A. | 240 | N.A. |
| A | ILLUM - RBT (WASHINGTON/VERNON) | 2 | 20A | 30 AMP | 240 | 5.36 |
| B | ILLUM - WASHINGTON (WEST) | 2 | 20A | 30 AMP | 240 | 5.95 |
| C | ILLUM - VERNON | 2 | 20A | 30 AMP | 240 | 5.71 |
| D | ILLUM - WASHINGTON (EAST) | 2 | 20A | 30 AMP | 240 | 5.95 |
| E | IRRIGATION | 1 | 20A | N.A. | 120 | 1.0 |
| BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM. | | | | | PEAK | 25.76 |
| | | | | | CONTINUOUS | 23.96 |

## BREAKER SCHEDULE - SERVICE C

| CIRCUIT | DESCRIPTION / LABEL | BRANCH BREAKER RATING | | CONTACTOR RATING | VOLTAGE | LOAD (KVA) |
|---|---|---|---|---|---|---|
| | | POLES | AMPS | | | |
| - | MAIN | 2 | 100A | N.A. | 240 | N.A. |
| A | ILLUM - RBT (WASHINGTON/LAKE CITY) | 2 | 20A | 30 AMP | 240 | 5.95 |
| B | ILLUM - WASHINGTON (WEST) | 2 | 20A | 30 AMP | 240 | 5.95 |
| C | ILLUM - RBT (WASHINGTON/ALAMEDA) | 2 | 20A | 30 AMP | 240 | 4.76 |
| D | ILLUM - WASHINGTON (EAST) | 2 | 20A | 30 AMP | 240 | 4.76 |
| BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM. | | | | | PEAK | 23.22 |
| | | | | | CONTINUOUS | 21.42 |

## BREAKER SCHEDULE - EXISTING SERVICE D

| CIRCUIT | DESCRIPTION / LABEL | BRANCH BREAKER RATING | | CONTACTOR RATING | VOLTAGE | LOAD (KVA) |
|---|---|---|---|---|---|---|
| | | POLES | AMPS | | | |
| - | MAIN | 2 | 100A | N.A. | 240 | N.A. |
| A | EX. ILLUM - RBT (WASHINGTON/GRAVELLY) | 2 | 20A | 30 AMP | 240 | 7.42(3) |
| B | EX ILLUM - RBT (WASHINGTON/INTERLAAKEN) | 2 | 20A | 30 AMP | 240 | 5.99(3) |
| C | ILLUM - WASHINGTON (WEST) | 2 | 20A | 30 AMP | 240 | 7.14 |
| D | ILLUM - RBT (WASHINGTON/83RD) | 2 | 20A | 30 AMP | 240 | 5.36 |
| BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM. | | | | | PEAK | 27.70 |
| | | | | | CONTINUOUS | 25.90 |

BREAKER SCHEDULE NOTES:

1. ILLUMINATION CIRCUIT LOADS ARE BASED ON THE HIGHEST ALLOWABLE FIXTURE WATTAGE LISTED IN THE SPECIAL PROVISIONS. ULTIMATE LOADS MAY BE LESS THAN THOSE LISTED IN THE SCHEDULE IF A LOWER WATTAGE FIXTURE IS INSTALLED.
2. PHOTOCELL (0.001 KVA) AND GFCI RECEPTACLE (1.8 KVA) BREAKERS ARE NOT SHOWN IN THE BREAKER SCHEDULES. SEE WSDOT STANDARD PLAN J-10.20-02.
3. SERVICE D IS AN EXISTING SERVICE INSTALLED AS PART OF PHASE 1 WORK. LOADS ASSOCIATED WITH CIRCUITS A AND B ARE EXISTING.

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokot DATE: Wednesday, January 26, 2022 1:42:48 PM
LAYOUT: EL16

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |

DESIGNED M. KENDALL
DRAWN K. DUDDLESTEN
CHECKED C. SCHOTT
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-EL16
JOB No. 214-3047-013
DATE JANUARY 2022

MARC EDWIN KENDALL — STATE OF WASHINGTON — 52858 — REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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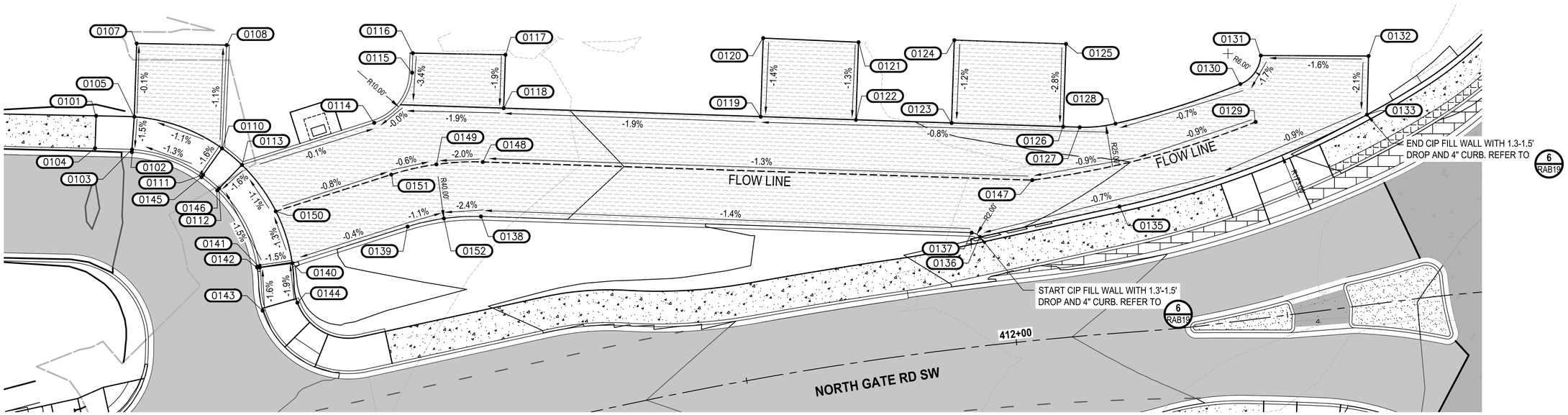
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ELECTRICAL PLAN LUMINAIRE SCHEDULE

DRAWING NO. 156 OF 169

**EL16**




## DRIVEWAY 411+08

| POINT # | STATION | OFFSET | DESCRIPTION | ELEVATION |
|---|---|---|---|---|
| 0101 | 410+43.71 | 72.45' LT | ES | 240.52' |
| 0102 | 410+48.68 | 64.55' LT | TC | 240.07' |
| 0103 | 410+48.82 | 65.03' LT | BC | 240.07' |
| 0104 | 410+42.25 | 66.69' LT | TC | 240.25' |
| 0105 | 410+50.50 | 70.79' LT | AP | 240.16' |
| 0107 | 410+53.80 | 83.84' LT | AP | 240.14' |
| 0108 | 410+69.86 | 80.03' LT | AP | 240.16' |
| 0110 | 410+65.01 | 61.71' LT | AP | 240.34' |
| 0111 | 410+60.56 | 57.68' LT | TC | 240.25' |
| 0112 | 410+62.92 | 54.65' LT | TC | 240.31' |
| 0113 | 410+67.92 | 57.96' LT | AP | 240.40' |
| 0114 | 410+93.28 | 60.33' LT | PC | 240.59' |
| 0115 | 411+02.05 | 67.84' LT | PT | 240.71' |
| 0116 | 411+02.93 | 71.31' LT | AP | 240.75' |
| 0117 | 411+19.47 | 67.40' LT | AP | 240.94' |
| 0118 | 411+17.07 | 57.91' LT | AP | 240.84' |
| 0119 | 411+60.38 | 47.31' LT | AP | 241.46' |
| 0120 | 411+62.95 | 61.45' LT | AP | 241.88' |
| 0121 | 411+78.74 | 58.13' LT | AP | 241.98' |
| 0122 | 411+76.49 | 44.10' LT | AP | 241.64' |
| 0123 | 411+92.80 | 41.30' LT | AP | 241.82' |
| 0124 | 411+94.87 | 56.33' LT | AP | 242.27' |
| 0125 | 412+13.66 | 53.64' LT | AP | 242.58' |
| 0126 | 412+11.98 | 38.57' LT | AP | 242.02' |
| 0127 | 412+14.83 | 38.21' LT | PC | 242.05' |
| 0128 | 412+21.05 | 38.35' LT | PT | 242.12' |
| 0129 | 412+48.65 | 35.88' LT | FL | 242.36' |
| 0130 | 412+46.73 | 43.13' LT | PC | 242.36' |
| 0131 | 412+51.12 | 47.85' LT | PT | 242.42' |
| 0132 | 412+70.73 | 45.29' LT | AP | 242.79' |

## DRIVEWAY 411+08

| POINT # | STATION | OFFSET | DESCRIPTION | ELEVATION |
|---|---|---|---|---|
| 0133 | 412+69.10 | 34.63' LT | AP,PC | 243.00' |
| 0135 | 412+20.70 | 23.12' LT | PT | 242.53' |
| 0136 | 411+95.49 | 19.92' LT | PC | 242.27' |
| 0137 | 411+94.10 | 20.88' LT | PT | 242.30' |
| 0138 | 411+08.76 | 39.38' LT | PC | 241.00' |
| 0139 | 410+95.23 | 40.43' LT | PT | 240.87' |
| 0140 | 410+73.10 | 38.36' LT | AP | 240.64' |
| 0141 | 410+67.12 | 38.87' LT | TC | 240.58' |
| 0142 | 410+66.64 | 38.98' LT | BC | 240.55' |
| 0143 | 410+65.95 | 31.02' LT | AP | 241.00' |
| 0144 | 410+72.48 | 31.09' LT | ES | 241.24' |
| 0145 | 410+60.19 | 57.35' LT | BC | 240.25' |
| 0146 | 410+62.51 | 54.37' LT | BC | 240.30' |
| 0147 | 412+05.74 | 29.31' LT | FL | 241.85' |
| 0148 | 411+11.21 | 49.07' LT | FL | 240.48' |
| 0149 | 411+02.81 | 50.45' LT | FL | 240.31' |
| 0150 | 410+72.17 | 48.32' LT | FL | 240.52' |
| 0151 | 410+94.30 | 50.38' LT | AP | 240.36' |
| 0152 | 411+02.04 | 40.48' LT | MC | 240.51' |

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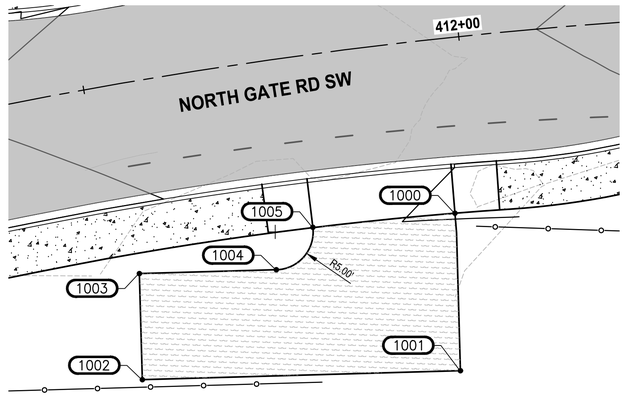


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SCALE IN FEET
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## DRIVEWAY 411+85

| POINT # | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|
| 1000 | 411+96.97 | 23.13' RT | AP |
| 1001 | 411+95.32 | 43.86' RT | AP |
| 1002 | 411+50.88 | 39.00' RT | AP |
| 1003 | 411+53.03 | 25.15' RT | AP |
| 1004 | 411+71.69 | 27.53' RT | PC |
| 1005 | 411+77.47 | 22.66' RT | PT |

| | REVISIONS | DATE | BY |
|---|---|---|---|
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DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT-DWY1
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA #1996

DMITRI VICTOROVICH SIMAKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022

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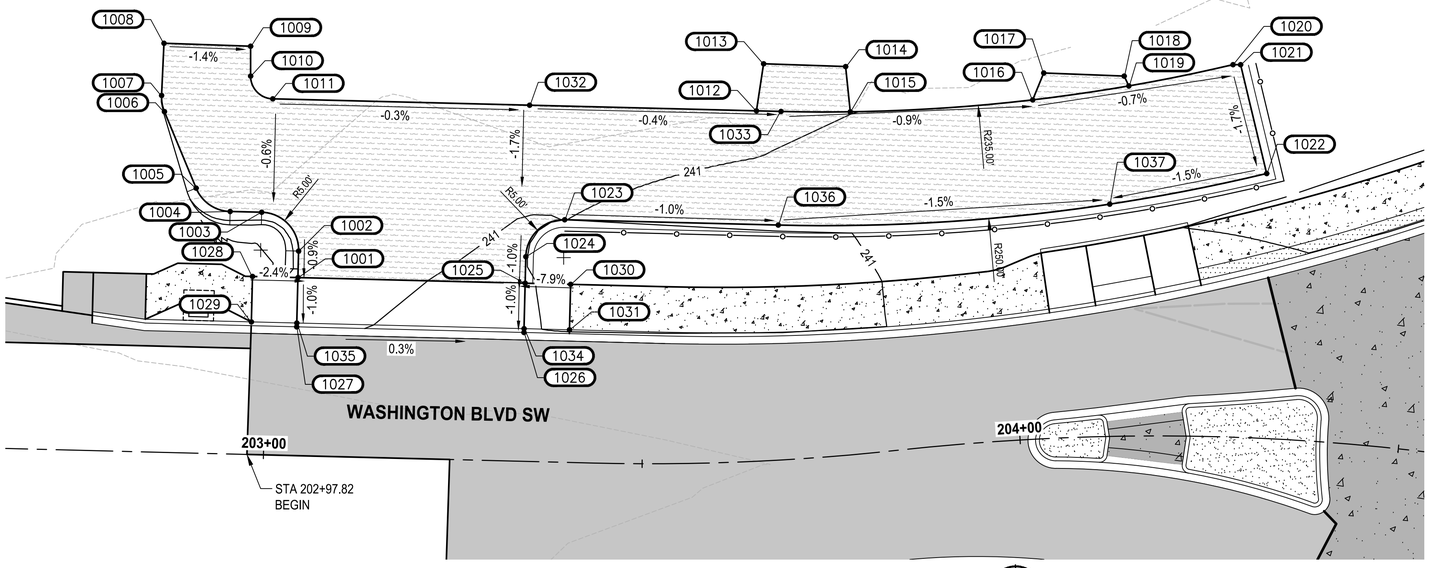
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM

PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

# DRIVEWAY DETAIL

DRAWING NO. 157 OF 169
DWY1

PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG
PLOTTED BY: toylokat DATE: Wednesday, January 12, 2022 12:42:00 PM
LAYOUT: DWY1

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SCALE IN FEET

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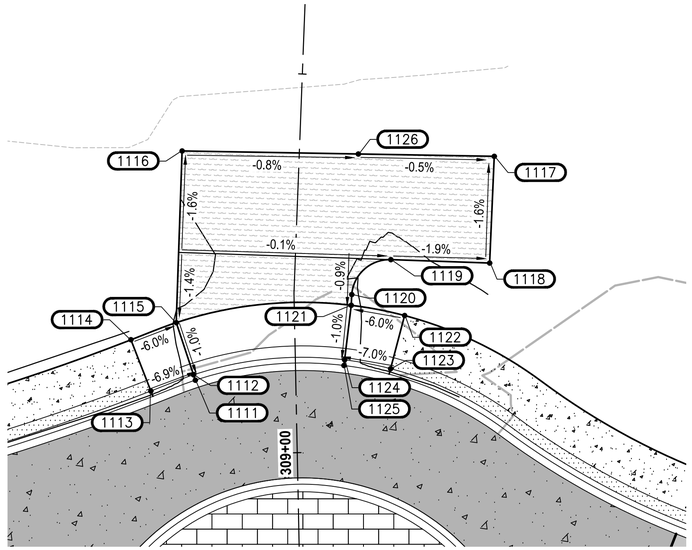


PLAN

SCALE IN FEET

0 10 20

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## DRIVEWAY 203+19

| POINT # | STATION | OFFSET | DESCRIPTION | ELEVATION |
|---|---|---|---|---|
| 1001 | 203+03.97 | 23.50' LT | AP | 241.15' |
| 1002 | 203+03.97 | 27.00' LT | PC | 241.18' |
| 1003 | 202+98.97 | 32.00' LT | PT | 241.26' |
| 1004 | 202+94.81 | 32.00' LT | PC | 241.30' |
| 1005 | 202+90.24 | 34.97' LT | PT | 241.36' |
| 1006 | 202+85.81 | 44.95' LT | PC | 241.44' |
| 1007 | 202+85.39 | 47.09' LT | PT | 241.48' |
| 1008 | 202+85.53 | 53.97' LT | AP | 241.62' |
| 1009 | 202+96.97 | 53.86' LT | AP | 241.46' |
| 1010 | 202+97.06 | 49.93' LT | PC | 241.38' |
| 1011 | 203+00.06 | 47.00' LT | PT | 241.34' |
| 1012 | 203+67.65 | 46.19' LT | AP | 241.17' |
| 1013 | 203+69.20 | 52.33' LT | AP | 241.33' |
| 1014 | 203+82.21 | 51.07' LT | AP | 241.17' |
| 1015 | 203+82.20 | 45.07' LT | AP | 241.01' |
| 1016 | 204+03.78 | 44.74' LT | AP | 240.83' |
| 1017 | 204+05.20 | 48.21' LT | AP | 240.93' |
| 1018 | 204+14.34 | 47.51' LT | AP | 240.79' |
| 1019 | 204+14.86 | 46.20' LT | AP | 240.73' |
| 1020 | 204+26.70 | 49.14' LT | PT | 240.62' |

## DRIVEWAY 203+19

| POINT # | STATION | OFFSET | DESCRIPTION | ELEVATION |
|---|---|---|---|---|
| 1021 | 204+27.56 | 49.17' LT | AP | 240.61' |
| 1022 | 204+31.05 | 34.94' LT | PT | 240.27' |
| 1023 | 203+38.97 | 32.00' LT | PT | 241.00' |
| 1024 | 203+33.97 | 27.00' LT | PC | 240.92' |
| 1025 | 203+33.97 | 23.50' LT | AP | 240.89' |
| 1026 | 203+33.97 | 17.00' LT | BC | 240.82' |
| 1027 | 203+03.97 | 17.00' LT | BC | 0.00' |
| 1028 | 202+97.97 | 23.50' LT | ES | 241.29' |
| 1029 | 202+97.97 | 17.50' LT | TC | 240.65' |
| 1030 | 203+39.98 | 23.50' LT | ES | 241.37' |
| 1031 | 203+39.97 | 17.50' LT | TC | 241.27' |
| 1032 | 203+33.97 | 47.00' LT | AP | 241.25' |
| 1033 | 203+71.47 | 45.91' LT | PC | 241.13' |
| 1034 | 203+33.97 | 17.50' LT | TC | 240.83' |
| 1035 | 203+03.97 | 17.50' LT | TC | 241.09' |
| 1036 | 203+69.92 | 30.97' LT | PC | 240.72' |
| 1037 | 204+12.42 | 30.64' LT | AP | 240.06' |

PLAN

SCALE IN FEET

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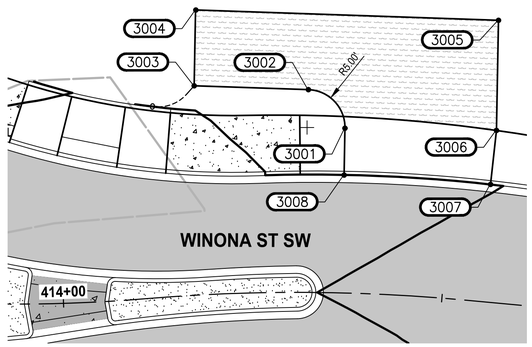


PLAN

SCALE IN FEET

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## DRIVEWAY 414+46

| POINT # | STATION | OFFSET | DESCRIPTION |
|---|---|---|---|
| 3001 | 414+36.66 | 21.73' LT | PC |
| 3002 | 414+32.21 | 26.75' LT | PT |
| 3003 | 414+18.68 | 27.60' LT | AP |
| 3004 | 414+19.31 | 37.58' LT | AP |
| 3005 | 414+54.07 | 37.17' LT | AP |
| 3006 | 414+55.14 | 22.67' LT | AP |
| 3007 | 414+55.01 | 15.51' LT | BC |
| 3008 | 414+36.69 | 15.55' LT | BC |

## DRIVEWAY 204+77

| POINT # | STATION | OFFSET | DESCRIPTION | ELEVATION |
|---|---|---|---|---|
| 1111 | 204+69.41 | 40.29' LT | BC | 240.88' |
| 1112 | 204+69.08 | 40.96' LT | TC | 240.90' |
| 1113 | 204+63.81 | 38.04' LT | TC | 241.32' |
| 1114 | 204+60.29 | 44.37' LT | ES | 241.35' |
| 1115 | 204+65.85 | 47.45' LT | AP | 240.97' |
| 1116 | 204+63.39 | 69.98' LT | AP | 240.90' |
| 1117 | 205+12.80 | 72.93' LT | AP | 240.63' |
| 1118 | 205+12.58 | 58.84' LT | AP | 240.31' |
| 1119 | 204+99.53 | 58.93' LT | PT | 240.61' |
| 1120 | 204+94.50 | 54.19' LT | PC | 240.88' |
| 1121 | 204+94.48 | 52.76' LT | AP | 240.92' |
| 1122 | 205+01.55 | 51.60' LT | ES | 241.35' |
| 1123 | 204+99.89 | 44.54' LT | TC | 241.28' |
| 1124 | 204+93.79 | 45.54' LT | TC | 240.85' |
| 1125 | 204+93.72 | 44.80' LT | BC | 240.84' |
| 1126 | 204+94.86 | 72.75' LT | AP | 240.72' |

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-DT-DWY1
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRII VICTOROVICH SISIKOV STATE OF WASHINGTON 38996 REGISTERED PROFESSIONAL ENGINEER

01/14/2022


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PROJECT NAME

**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**

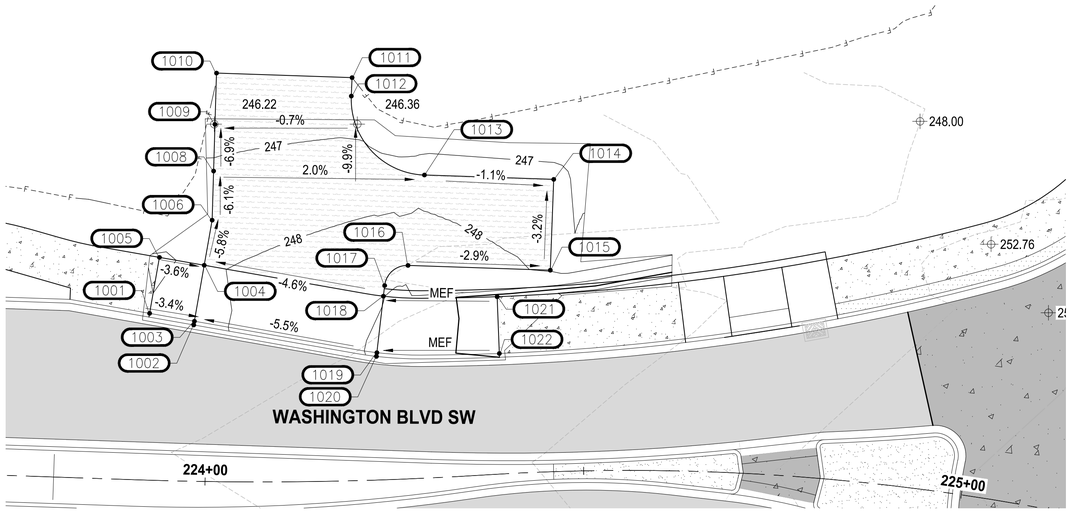
LAKEWOOD, WASHINGTON

# DRIVEWAY DETAIL

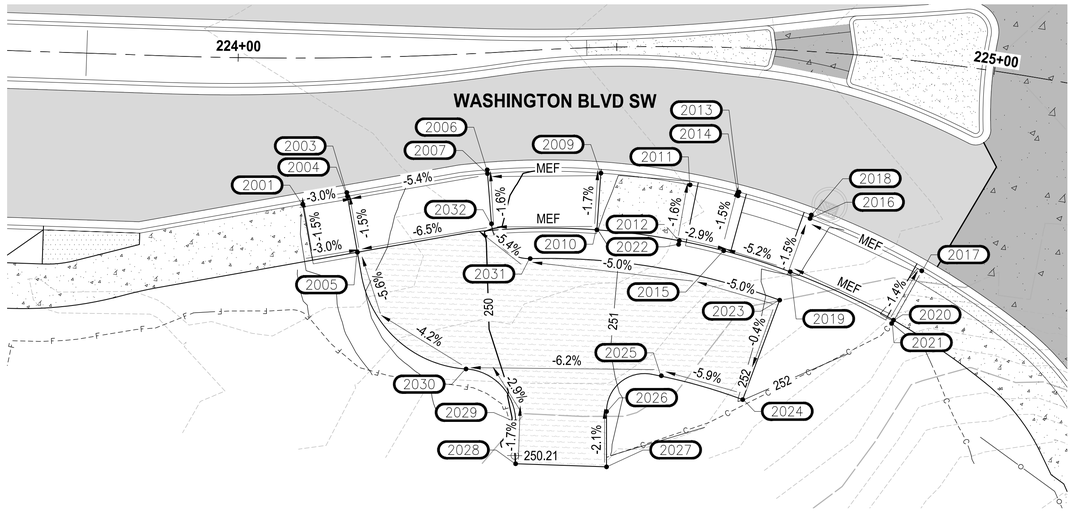
DRAWING NO. 158 OF 169

**DWY2**


PATH: U:\PS0\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svca\CADD\DWG PLOTTED BY: toylokat DATE: Wednesday, January 12, 2022 12:35:08 PM LAYOUT: DWY2




PLAN
SCALE IN FEET
0 5 10




PLAN
SCALE IN FEET
0 5 10

| 224+04 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 1001 | 223+91.97 | 22.01' LT | 247.955' | TC |
| 1002 | 223+98.10 | 20.63' LT | 247.748' | TC |
| 1003 | 223+98.18 | 21.12' LT | 247.748' | TC |
| 1004 | 223+99.41 | 28.53' LT | 248.353' | AP |
| 1005 | 223+93.09 | 29.43' LT | 248.081' | ES |
| 1006 | 224+00.43 | 34.50' LT | 248.353' | AP |
| 1008 | 224+00.54 | 40.99' LT | 246.982' | AP |
| 1009 | 224+00.64 | 47.14' LT | 246.367' | AP |
| 1010 | 224+00.76 | 53.92' LT | 0.000' | AP |
| 1011 | 224+20.92 | 53.18' LT | 0.000' | AP |
| 1012 | 224+20.73 | 50.76' LT | 0.000' | PC |
| 1013 | 224+30.95 | 39.97' LT | 248.023' | PT |
| 1014 | 224+47.18 | 38.55' LT | 247.681' | AP |
| 1015 | 224+46.45 | 26.58' LT | 248.281' | AP |
| 1016 | 224+28.01 | 28.15' LT | 248.657' | PC |
| 1017 | 224+24.64 | 25.62' LT | 248.881' | PT |
| 1018 | 224+24.41 | 24.22' LT | 248.951' | AP |
| 1019 | 224+23.24 | 16.81' LT | 249.101' | TC |
| 1020 | 224+23.16 | 16.31' LT | 249.090' | BC |
| 1021 | 224+39.84 | 23.39' LT | 250.557' | AP |

| 224+04 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 1022 | 224+39.72 | 15.89' LT | 250.500' | AP |

* ALL ELEVATION POINTS WITH ZERO ELEVATION WILL NEED TO BE SURVEYED BY CONTRACTOR AND CONSIDERED ONLY FOR THEIR STATION AND OFFSET.

| 224+42 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 2001 | 224+08.47 | 19.28' RT | 248.758' | TC |
| 2003 | 224+14.08 | 17.79' RT | 248.569' | BC |
| 2004 | 224+14.16 | 18.28' RT | 248.579' | TC |
| 2005 | 224+15.30 | 25.69' RT | 248.742' | AP |
| 2006 | 224+32.07 | 15.41' RT | 249.585' | BC |
| 2007 | 224+32.08 | 15.91' RT | 249.585' | TC |
| 2009 | 224+47.42 | 16.59' RT | 250.884' | TC |
| 2010 | 224+46.61 | 24.05' RT | 250.993' | ES |
| 2011 | 224+59.91 | 18.23' RT | 251.477' | TC |
| 2012 | 224+58.46 | 25.61' RT | 251.589' | ES |
| 2013 | 224+66.82 | 19.02' RT | 251.290' | BC |
| 2014 | 224+66.70 | 19.51' RT | 251.790' | TC |
| 2015 | 224+64.90 | 26.83' RT | 251.903' | BC, ES |
| 2016 | 224+77.06 | 22.00' RT | 252.271' | TC |
| 2017 | 224+93.79 | 27.43' RT | 253.050' | TC |
| 2018 | 224+77.22 | 21.52' RT | 251.771' | BC |
| 2019 | 224+74.72 | 29.19' RT | 252.383' | BC, ES |
| 2020 | 224+90.54 | 34.34' RT | 253.163' | AP |
| 2021 | 224+90.32 | 34.80' RT | 252.669' | TC |
| 2022 | 224+58.36 | 26.10' RT | 251.590' | TC |

| 224+42 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 2023 | 224+73.42 | 33.02' RT | 251.942' | AP, PC |
| 2024 | 224+68.56 | 46.37' RT | 249.710' | AP |
| 2025 | 224+55.86 | 43.44' RT | 251.005' | PT |
| 2026 | 224+47.24 | 48.05' RT | 250.839' | PC |
| 2027 | 224+46.98 | 55.35' RT | 250.993' | AP |
| 2028 | 224+33.62 | 54.34' RT | 0.000' | AP |
| 2029 | 224+33.90 | 48.82' RT | 249.983' | PC |
| 2030 | 224+28.25 | 41.52' RT | 249.766' | PT |
| 2031 | 224+36.86 | 27.42' RT | 250.215' | PC, PT |
| 2032 | 224+32.26 | 22.54' RT | 249.710' | PT |

* ALL ELEVATION POINTS WITH ZERO ELEVATION WILL NEED TO BE SURVEYED BY CONTRACTOR AND CONSIDERED ONLY FOR THEIR STATION AND OFFSET.

| | REVISIONS | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT-DWY2
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRII VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022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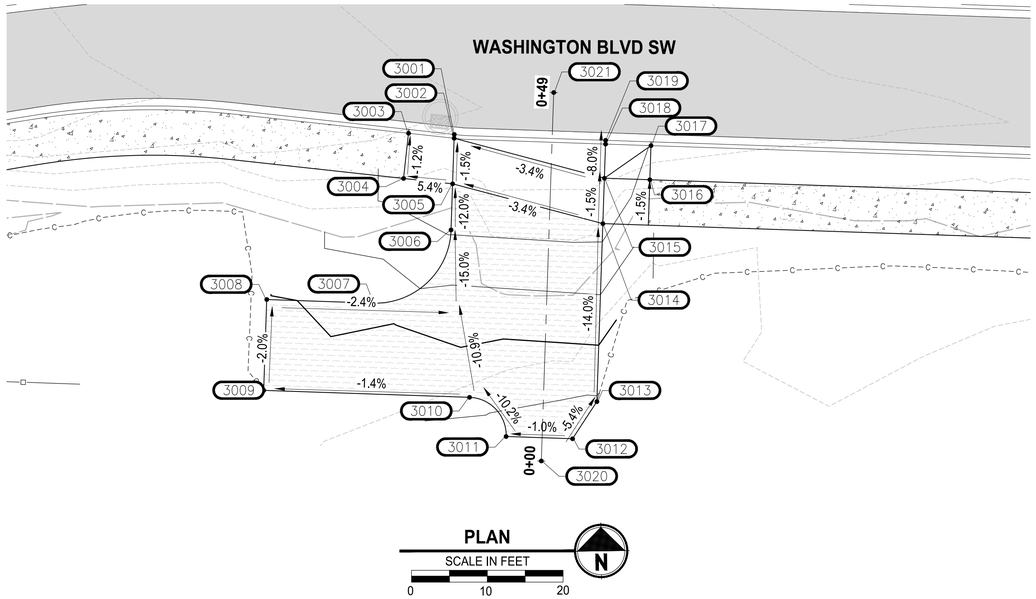
2106 PACIFIC AVE, SUITE 300
TACOMA, WA 98402
P 253.627.4367
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# DRIVEWAY DETAIL

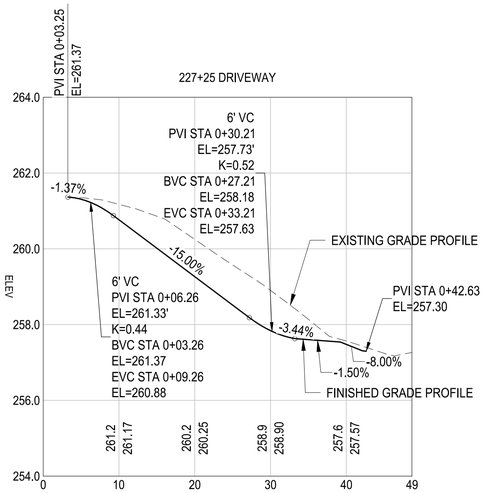
DRAWING NO.
159 OF 169
**DWY3**


PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 12:39:01 PM
LAYOUT: DW3

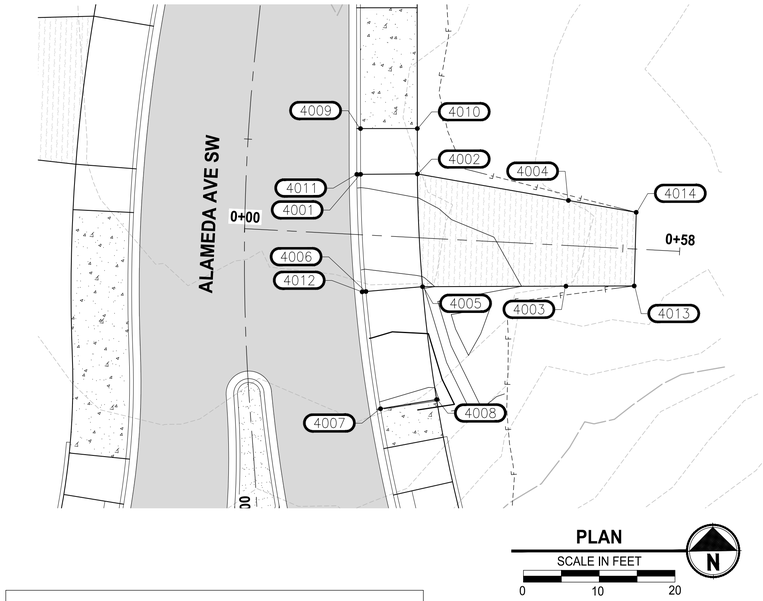



PLAN
SCALE IN FEET
0 10 20

| 227+27 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 3001 | 227+14.76 | 22.89' RT | 257.076' | BC |
| 3002 | 227+14.75 | 23.39' RT | 257.086' | TC |
| 3003 | 227+08.22 | 22.81' RT | 257.435' | TC |
| 3004 | 227+07.51 | 28.77' RT | 257.524' | ES |
| 3005 | 227+14.69 | 29.41' RT | 257.176' | AP |
| 3006 | 227+14.61 | 35.49' RT | 257.906' | PC |
| 3007 | 227+02.91 | 45.19' RT | 259.791' | PT |
| 3008 | 226+86.31 | 44.10' RT | 260.080' | AP |
| 3009 | 226+84.77 | 56.03' RT | 260.320' | AP |
| 3010 | 227+18.17 | 57.51' RT | 260.715' | PC |
| 3011 | 227+23.17 | 62.50' RT | 261.343' | PT |
| 3012 | 227+31.94 | 62.50' RT | 261.431' | PT |
| 3013 | 227+34.98 | 57.50' RT | 261.117' | AP |
| 3014 | 227+34.99 | 34.00' RT | 257.879' | AP |
| 3015 | 227+34.99 | 28.00' RT | 257.789' | AP |
| 3016 | 227+40.99 | 28.00' RT | 258.080' | AP |
| 3017 | 227+40.99 | 23.50' RT | 258.012' | TC |
| 3018 | 227+34.99 | 23.50' RT | 257.429' | TC |
| 3019 | 227+34.97 | 23.00' RT | 257.429' | BC |
| 3020 | 227+27.92 | 65.57' RT | 0.000' | Alignment |
| 3021 | 227+27.92 | 16.93' RT | 0.000' | Alignment |

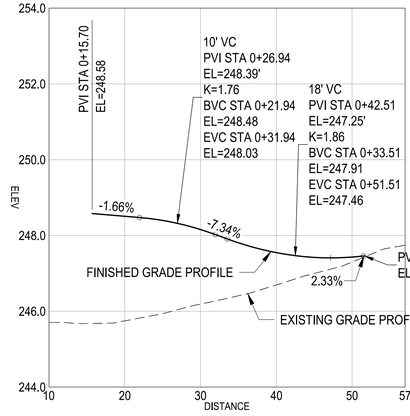



PROFILE
HORIZ: 1"=20'
VERT: 1"=5'




PLAN
SCALE IN FEET
0 10 20

| 503+38 DRIVEWAY | | | | |
|---|---|---|---|---|
| POINT # | STATION | OFFSET | ELEVATION | DESCRIPTION |
| 4001 | 503+46.03 | 15.08' RT | 247.837' | TC |
| 4002 | 503+46.46 | 22.57' RT | 247.694' | AP |
| 4003 | 503+29.91 | 42.41' RT | 247.670' | AP |
| 4004 | 503+43.41 | 42.63' RT | 247.267' | AP |
| 4005 | 503+30.17 | 23.49' RT | 249.130' | AP |
| 4006 | 503+29.61 | 16.01' RT | 249.273' | TC |
| 4007 | 503+13.01 | 17.18' RT | 251.107' | TC |
| 4008 | 503+13.69 | 24.65' RT | 251.219' | ES |
| 4009 | 503+52.42 | 14.72' RT | 247.783' | TC |
| 4010 | 503+53.00 | 22.20' RT | 247.896' | ES |
| 4011 | 503+46.01 | 14.58' RT | 247.832' | BC |
| 4012 | 503+29.58 | 15.51' RT | 249.268' | BC |
| 4013 | 503+29.78 | 51.42' RT | 247.627' | AP |
| 4014 | 503+41.86 | 51.62' RT | 247.299' | AP |




PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

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LAYOUT: DW4

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

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FILE NAME PS3047013-DT-DWY2
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STATE OF WASHINGTON
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01/14/2022

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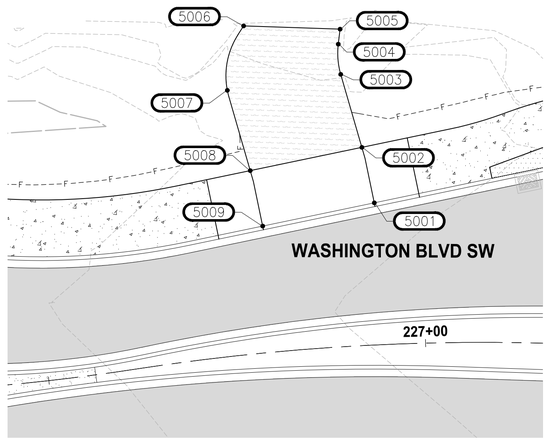
PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

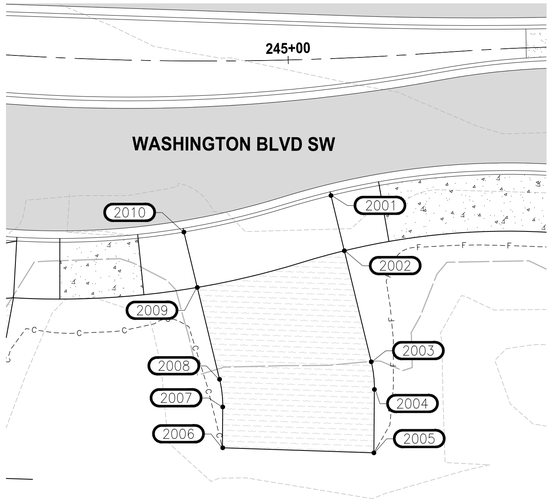
# DRIVEWAY DETAIL

DRAWING NO.
160 OF 169
DWY4



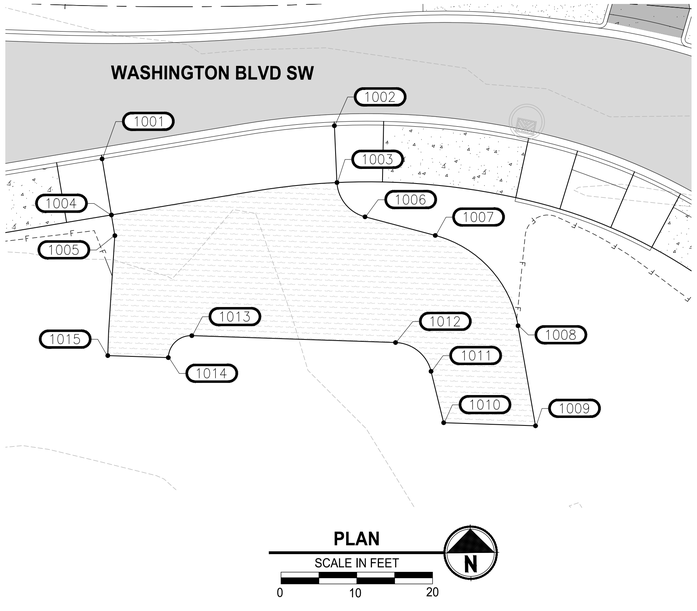

PLAN
SCALE IN FEET
0 10 20

| 226+87 DRIVEWAY | | | |
|---|---|---|---|
| POINT # | STATION | OFFSET | DESCRIPTION |
| 5001 | 226+94.07 | 18.74' LT | TC |
| 5002 | 226+92.86 | 26.13' LT | AP |
| 5003 | 226+90.80 | 35.90' LT | PC |
| 5004 | 226+90.71 | 39.89' LT | PT |
| 5005 | 226+91.02 | 41.85' LT | AP |
| 5006 | 226+79.93 | 43.22' LT | PT |
| 5007 | 226+77.31 | 34.96' LT | PC |
| 5008 | 226+79.10 | 24.13' LT | AP |
| 5009 | 226+80.00 | 16.69' LT | TC |




PLAN
SCALE IN FEET
0 10 20

| 244+96 DRIVEWAY | | | |
|---|---|---|---|
| POINT # | STATION | OFFSET | DESCRIPTION |
| 2001 | 245+04.98 | 18.05' RT | TC |
| 2002 | 245+06.39 | 25.40' RT | AP |
| 2003 | 245+09.10 | 40.19' RT | PC |
| 2004 | 245+09.33 | 43.86' RT | PT |
| 2005 | 245+08.92 | 52.21' RT | AP |
| 2006 | 244+91.12 | 51.04' RT | AP |
| 2007 | 244+91.14 | 45.65' RT | PT |
| 2008 | 244+90.78 | 42.00' RT | PC |
| 2009 | 244+88.07 | 29.88' RT | AP |
| 2010 | 244+86.37 | 22.58' RT | TC |




PLAN
SCALE IN FEET
0 10 20

| 234+69 DRIVEWAY | | | |
|---|---|---|---|
| POINT # | STATION | OFFSET | DESCRIPTION |
| 1001 | 234+55.27 | 20.17' RT | TC |
| 1002 | 234+84.90 | 16.12' RT | TC |
| 1003 | 234+84.93 | 23.62' RT | PC |
| 1004 | 234+56.57 | 27.55' RT | AP |
| 1005 | 234+57.04 | 30.27' RT | AP |
| 1006 | 234+88.27 | 28.30' RT | PT |
| 1007 | 234+98.16 | 31.12' RT | PC |
| 1008 | 235+10.59 | 43.06' RT | PT |
| 1009 | 235+13.73 | 56.21' RT | AP |
| 1010 | 234+98.83 | 55.85' RT | AP |
| 1011 | 234+97.00 | 49.04' RT | PT |
| 1012 | 234+91.61 | 45.07' RT | PC |
| 1013 | 234+66.57 | 43.41' RT | PC |
| 1014 | 234+63.73 | 46.30' RT | PT |
| 1015 | 234+56.41 | 46.11' RT | AP |

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-DT-DWY2
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SUSHKOV
STATE OF WASHINGTON
38390
REGISTERED
PROFESSIONAL ENGINEER
01/14/2022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PROJECT NAME
JBLM NORTH ACCESS ROAD
IMPROVEMENTS - PHASE 2

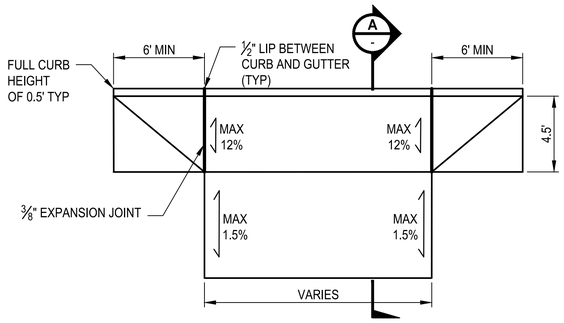
LAKEWOOD, WASHINGTON

# DRIVEWAY DETAIL

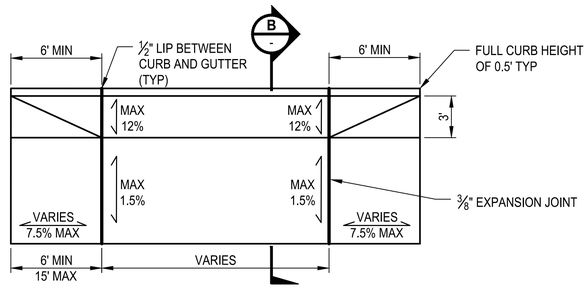
DRAWING NO.
161 OF 169

DWY5

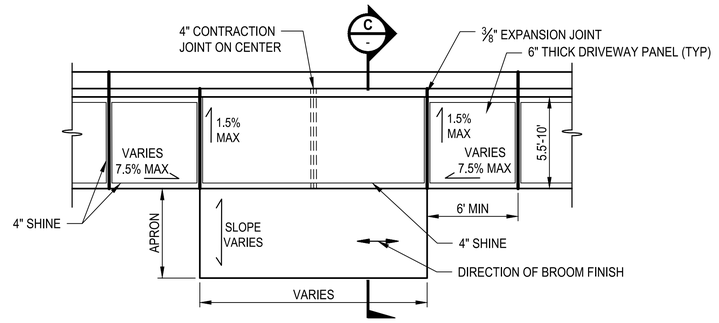

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 12:36:06 PM
LAYOUT: DW5



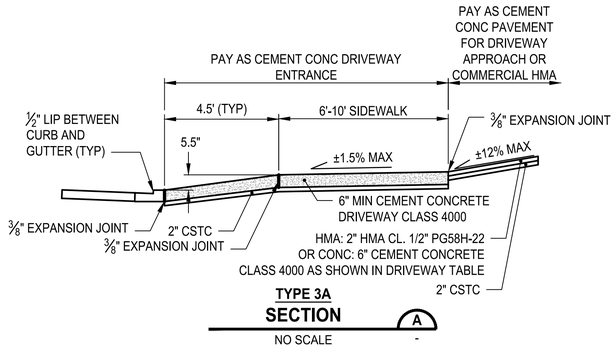

**DRIVEWAY TYPE 3A**
**DETAIL** 1 TYP
NO SCALE



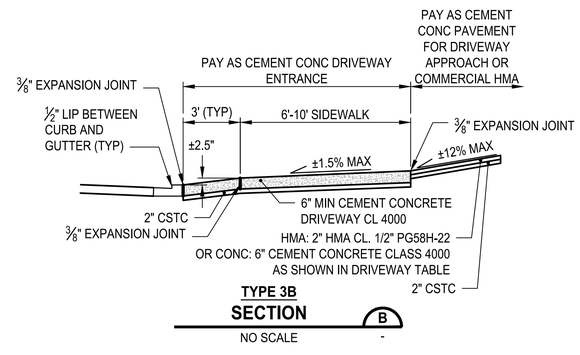

**DRIVEWAY TYPE 3B**
**DETAIL** 2 TYP
NO SCALE



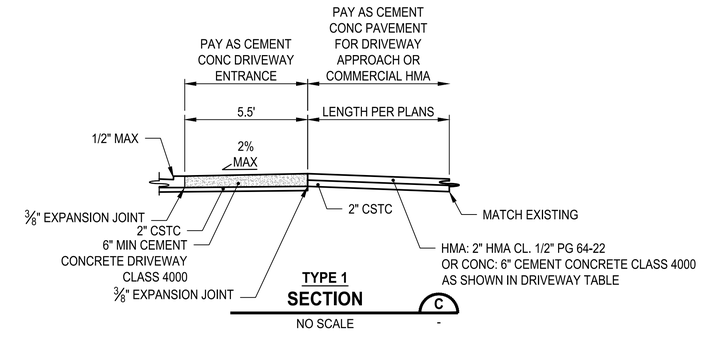

**DRIVEWAY TYPE 1**
**DETAIL** 3 TYP
NO SCALE



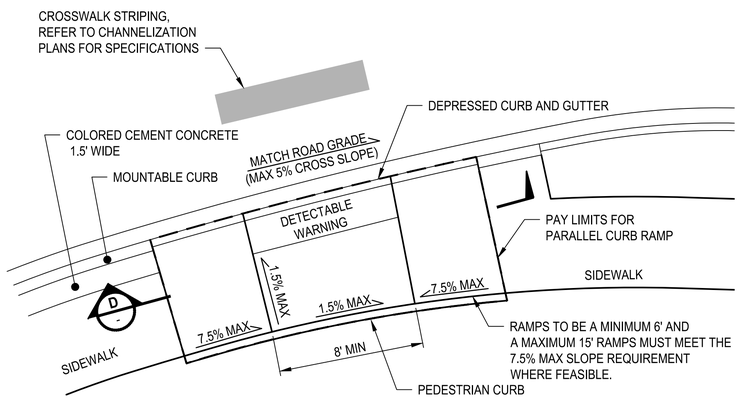

**TYPE 3A**
**SECTION** A -
NO SCALE



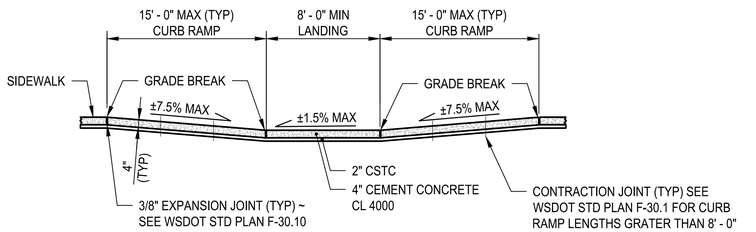

**TYPE 3B**
**SECTION** B -
NO SCALE



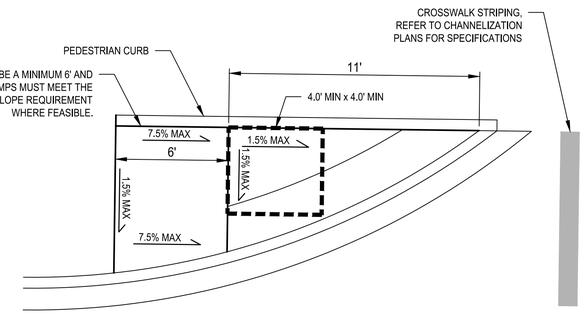

**TYPE 1**
**SECTION** C -
NO SCALE




**PARALLEL CURB RAMP**
**DETAIL** 4 TYP
NO SCALE




**SECTION** D -
NO SCALE




**SINGLE DIRECTION CURB RAMP**
**DETAIL** 5 TYP
NO SCALE

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED M. VASSEY
DRAWN M.VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT01-04
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRII VICTOROVICH SUSLIKOV STATE OF WASHINGTON 38996 REGISTERED PROFESSIONAL ENGINEER
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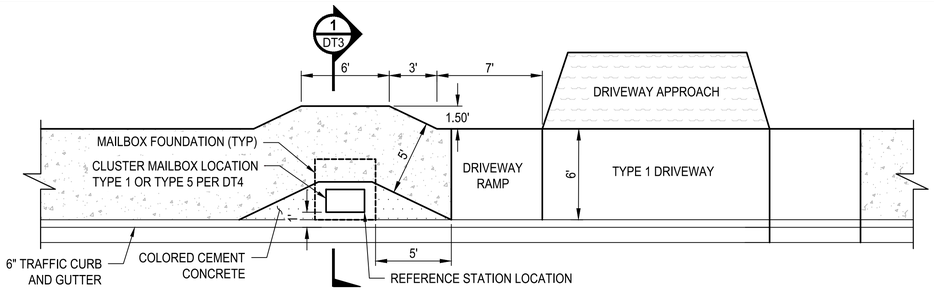
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

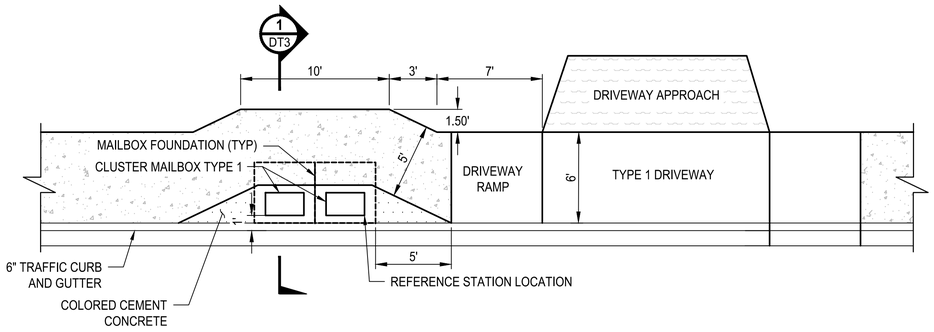
# ROADWAY DETAILS

DRAWING NO.
162 OF 169
**DT1**

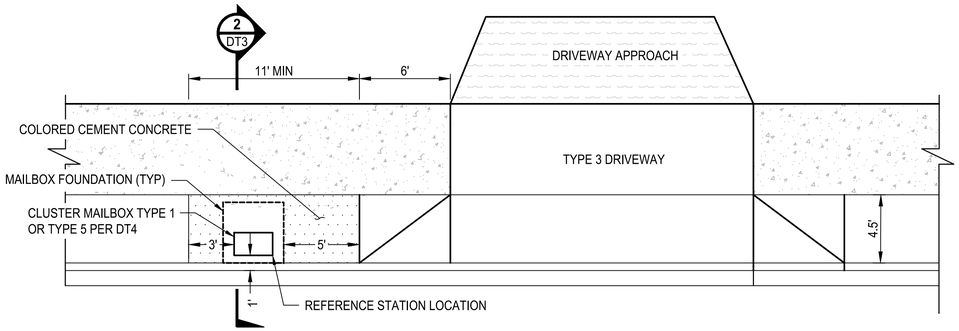

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Wednesday, January 12, 2022 12:45:35 PM
LAYOUT: DT1



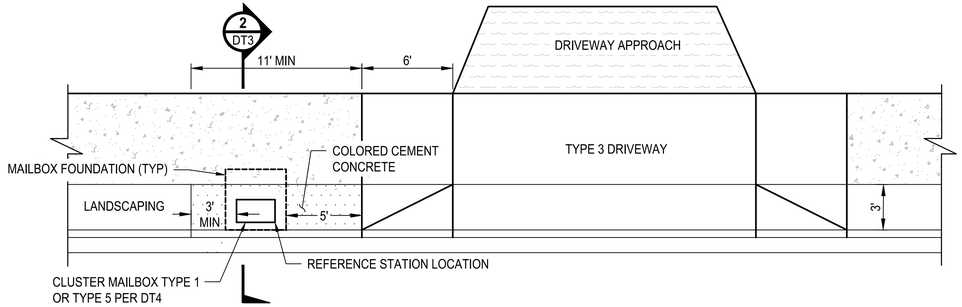

**NORTHGATE/EDGEWOOD CLUSTER BOX**
**DETAIL** 1 TYP
NO SCALE




**NORTHGATE/EDGEWOOD DOUBLE CLUSTER BOX**
**DETAIL** 2 TYP
NO SCALE




**WASHINGTON 4.5' LANDSCAPE CLUSTER MAILBOX**
**DETAIL** 3 TYP
NO SCALE




**WASHINGTON 3' LANDSCAPE CLUSTER MAILBOX**
**DETAIL** 4 TYP
NO SCALE

PATH: U:\PSG\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toykokot DATE: Wednesday, January 12, 2022 1:07:09 PM
LAYOUT: DT2

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |
| | | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT01-04
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CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVICH SISKIN
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01/14/2022


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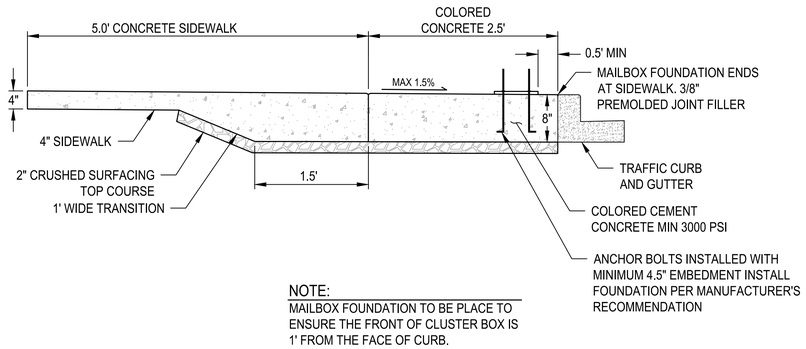
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# ROADWAY DETAILS

DRAWING NO. 163 OF 169
**DT2**

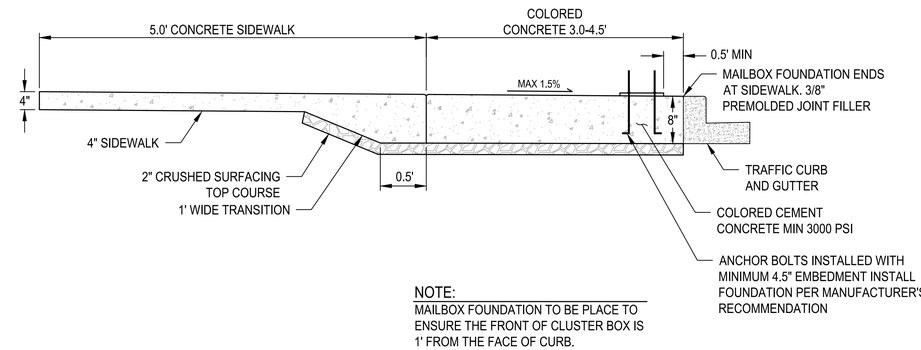



NOTE:
MAILBOX FOUNDATION TO BE PLACE TO ENSURE THE FRONT OF CLUSTER BOX IS 1' FROM THE FACE OF CURB.

**CLUSTER MAILBOX FOUNDATION NORTHGATE/EDGEWOOD**

**DETAIL** 1 TYP

NO SCALE

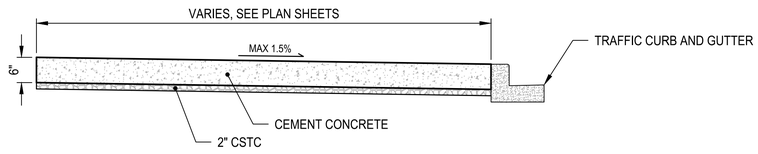



NOTE:
MAILBOX FOUNDATION TO BE PLACE TO ENSURE THE FRONT OF CLUSTER BOX IS 1' FROM THE FACE OF CURB.

**CLUSTER MAILBOX FOUNDATION WASHINGTON**

**DETAIL** 2 TYP

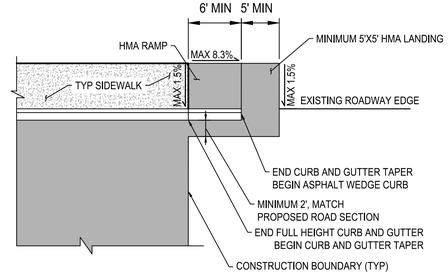
NO SCALE




**BUS STOP PAD**

**DETAIL** 3 TYP

NO SCALE




**ASPHALT RAMP WITH CURB AND GUTTER TAPER**

**DETAIL** 4 TYP

NO SCALE

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

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PROJECT NAME
JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2
LAKEWOOD, WASHINGTON

ROADWAY DETAILS

DRAWING NO.
164 OF 169
DT3

LAYOUT: DT3 PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: taylokat DATE: Thursday, January 27, 2022 1:27:09 PM

| BOX # | REFERENCE LOCATION | SHEET | LT | RT | TYPE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | SHEET DT2 DETAIL (#) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403+45.12 | PP1 | X | | 1 | 9829 | 9823 | 9821 | 9811 | 9809 | | | | 1 |
| 2 | 410+80.70 | PP3 | | X | 5 | 9623 | 9616 | 9614 | | | | | | 1 |
| 3 | 410+84.37 | PP3 | X | | 1 | 9621 | 9619 | 9613 | 9609 | 9607 | 9603 | | | 3 |
| 4 | 300+82.51 | PP4 | | X | 1 | 12208 | 12211A | 12211B | 12211C | 12211D | 12211E | 12211F | 12211G | 2 |
| 5 | 300+86.65 | PP4 | | X | 1 | 12211H | 12211I | 12211J | 12211K | 12211L | | | | 2 |
| 6 | 304+38.69 | PP5 | X | | 5 | 12108A | 12108B | 12108C | 12108D | | | | | 1 |
| 7 | 306+20.05 | PP5 | X | | 1 | 2025 | | | | 12020A | 12020B | 12020C | 12020D | 1 |
| 8 | 307+00.64 | PP6 | | X | 1 | 12025A | 12025B | 12011 | 12013 | | | | | 1 |
| 9 | 202+92.24 | PP7 | X | | 5 | 9611 | 9607 | 9603 | 9517 | | | | | 1 |
| 10 | 203+42.29 | PP7 | | X | 5 | 9608 | 9602 | | | | | | | 1 |
| 11 | 207+19.98 | PP8 | X | | 1 | 9501 | 9511 | 9413 | 9407 | 9403 | | | | 3 |
| 12 | 208+79.91 | PP8 | | X | 1 | 9418 | 9410 | 9408 | 9406 | 9312 | | | | 3 |
| 13 | 212+58.25 | PP9 | | X | 1 | 9306 | 9302 | 9220 | 9212 | 9202 | | | | 3 |
| 14 | 213+15.84 | PP9 | X | | 1 | 9303 | 9221 | 9209A | 9209B | 9209C | 9209D | 9209E | | 3 |
| 15 | 213+19.84 | PP9 | X | | 1 | 9209F | 9209G | 9209H | 9209I | 9209J | 9209K | 9209L | 9209M | 3 |
| 16 | 217+59.20 | PP10 | X | | 1 | 9139A | 9139B | 9133A | 9133B | 9127A | 9127B | 9121A | 9121B | 3 |
| 17 | 217+64.03 | PP10 | | X | 5 | 9126 | 9116 | 9108 | 9104 | | | | | 3 |
| 18 | 219+36.34 | PP10 | X | | 1 | 9115A | 9115B | 9109 | 9025 | 9023 | 9021 | 9019 | 9017 | 3 |
| 19 | 220+36.04 | PP10 | | X | 5 | 9100 | 9024 | 9018 | 9016 | | | | | 3 |
| 20 | 222+39.94 | PP11 | | X | 1 | | 9006 | 9000 | 8920 | 8914 | 8912 | 8910 | 8908 | 3 |
| 21 | 222+81.58 | PP11 | X | | 1 | 9011 | 9007 | 9003 | 8915 | 8911 | | | | 3 |
| 22 | 228+73.60 | PP12 | X | | 1 | 8819 | 8809 | 8803 | 8725 | 8723 | | | | 3 |
| 23 | 229+02.24 | PP12 | | X | 1 | 8818 | 8814 | 8806 | 8728 | 8722 | 8716 | | | 3 |
| 24 | 233+02.61 | PP13 | X | | 5 | 8717 | 8709 | 8613 | 8611 | | | | | 3 |
| 25 | 233+29.37 | PP13 | | X | 1 | 8710 | 8704 | 8616 | 8608 | 21004 | | | | 3 |
| 26 | 238+39.00 | PP14 | | X | 1 | 8516A | 8516B | 8516C | 8516D | 8514A | 8514B | 8514C | 8514D | 3 |
| 27 | 239+56.38 | PP15 | | X | 1 | 8508 | 8428 | 8422 | 8416 | 8410 | | | | 3 |
| 28 | 240+07.56 | PP15 | X | | 5 | 8429 | 8427 | 8419 | 8409 | | | | | 3 |
| 29 | 243+26.11 | PP15 | | X | 1 | 8406 | 8324A | 8324B | 8324C | 8324D | 8324E | 8324F | 8324G | 3 |
| 30 | 243+30.11 | PP15 | | X | 1 | 8324H | 8324I | 8324J | 8324K | 8324L | 8324M | 8324N | | 3 |
| 31 | 244+27.05 | PP16 | | X | 5 | 8314 | 8312 | 8302 | | | | | | 3 |
| 32 | 244+34.92 | PP16 | X | | 1 | 8335 | 8331 | 8327 | 8323 | 8321 | 8315 | | | 3 |
| 33 | 248+92.35 | PP17 | | X | 1 | 8222 | 8210A | 8210B | 8210C | 8210D | 8210E | | | 4 |
| 34 | 250+17.83 | PP17 | | X | 5 | 8118 | 8116 | 8110 | 8112 | | | | | 1 |
| 35 | 251+24.33 | PP17 | X | | 5 | 8201 | 8105 | | | | | | | 4 |
| 36 | 252+84.15 | PP17 | | X | 1 | | | 8018A | 8018B | 8018C | 8018D | 8018E | 8018F | 4 |
| 37 | 253+97.61 | PP18 | | X | 1 | 8018G | 8010A | 8010B | 8010C | 8010D | 8010E | 8010F | 8010G | 4 |
| 38 | 254+55.44 | PP18 | X | | 5 | 8017 | 8015 | | | | | | | 4 |
| 39 | 500+45.38 | PP20 | X | | 5 | 12004 | 8826 | | | | | | | 1 |

**CLUSTER MAILBOX TABLE**
**DETAIL** 1 TYP
NO SCALE

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LAYOUT: DT4

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |
| | | | |

DESIGNED M. VASSEY
DRAWN M. VASSEY
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT01-04
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

DMITRI VICTOROVIC SIVILOV STATE OF WASHINGTON 38390 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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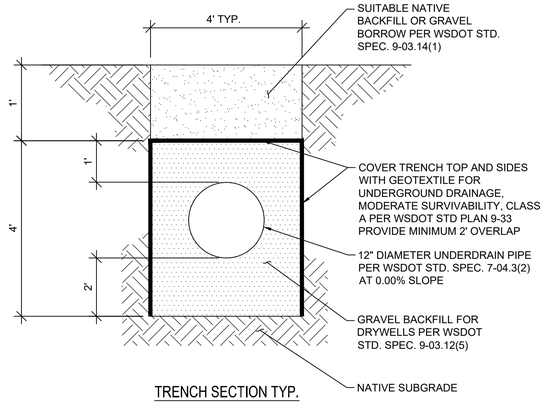
WWW.BCRADESIGN.COM


PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

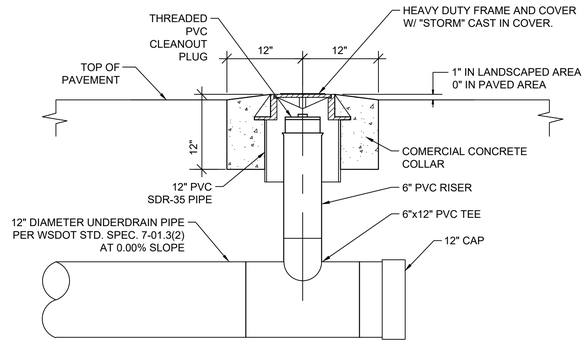
# ROADWAY DETAILS

DRAWING NO. 165 OF 169
**DT4**




TRENCH SECTION TYP.

NOTE: PROVIDE OBSERVATION PORT AT END OF TRENCH.




OBSERVATION PORT

## INFILTRATION TRENCH

SCALE: NTS

2

PATH: P:\19000\19182.00.00 – JBLM North Access Impr\Civil\07-CAD\DWG\Phase 2 PLOTTED BY: bbeals DATE: Wednesday, January 26, 2022 1:07:03 PM
LAYOUT: DT5 STORM DETAILS

| | REVISIONS | DATE | BY |
|---|---|---|---|
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| | | | |
| | | | |
| | | | |

DESIGNED B. HARRINGTON
DRAWN R. BEALS
CHECKED A. CIRILLO
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-DT01-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ANDREW CHRISTOPHER CIRILLO STATE OF WASHINGTON 55083 REGISTERED PROFESSIONAL ENGINEER
01/27/22

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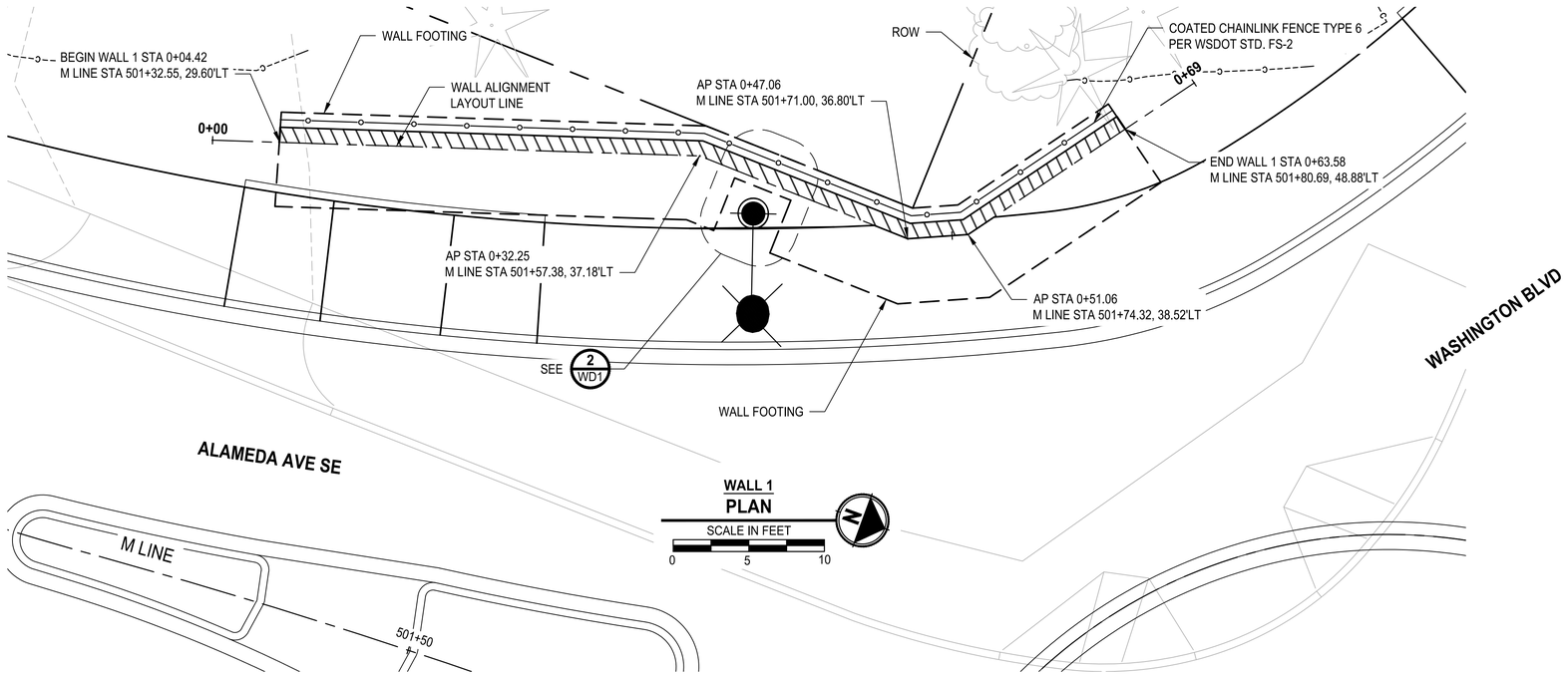
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

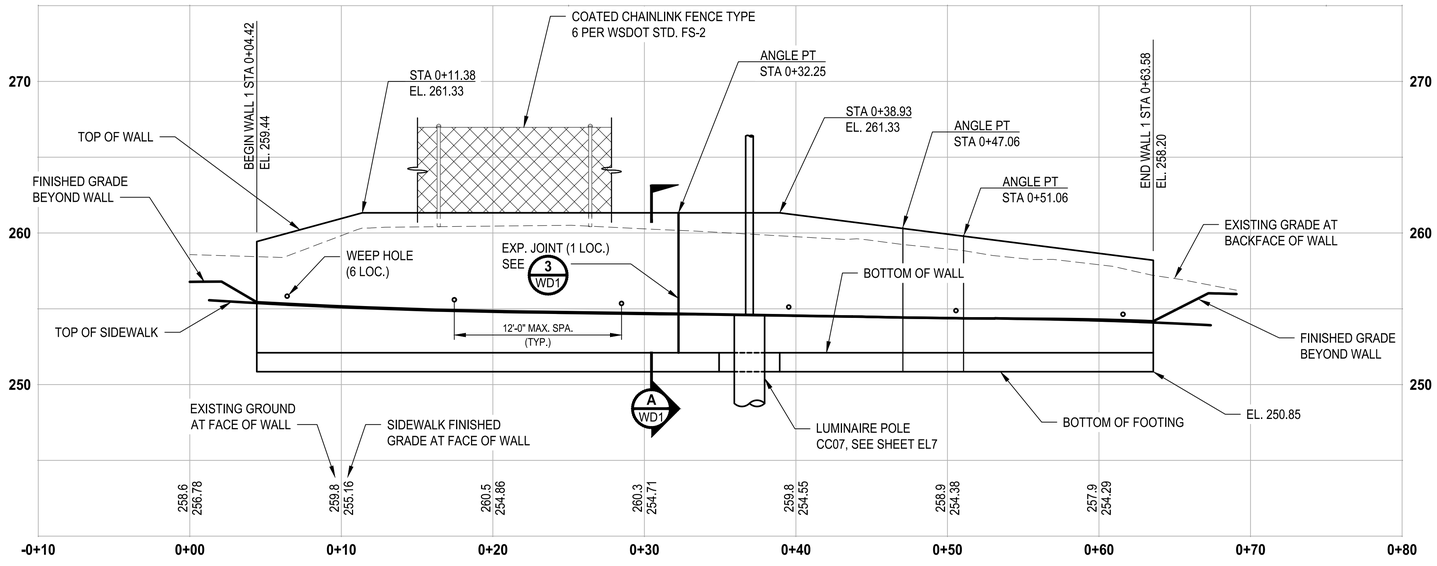
# STORM DETAILS

DRAWING NO. 166 OF 169

**DT5**




**WALL 1**
**PLAN**
SCALE IN FEET
0 5 10




**WALL 1 PROFILE**
HORIZ: 1"=5'
VERT: 1"=5'

## GENERAL NOTES:

1. SEE WD1 FOR DETAILS.

| REVISIONS | DATE | BY |
|---|---|---|
| | | |

DESIGNED A. MENDOZA
DRAWN A. MENDOZA
CHECKED N. CABLE
APPROVED A. FISHER

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-WA01-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

ARMANDO MENDOZA
STATE OF WASHINGTON
21018370
REGISTERED
PROFESSIONAL ENGINEER
01/14/2022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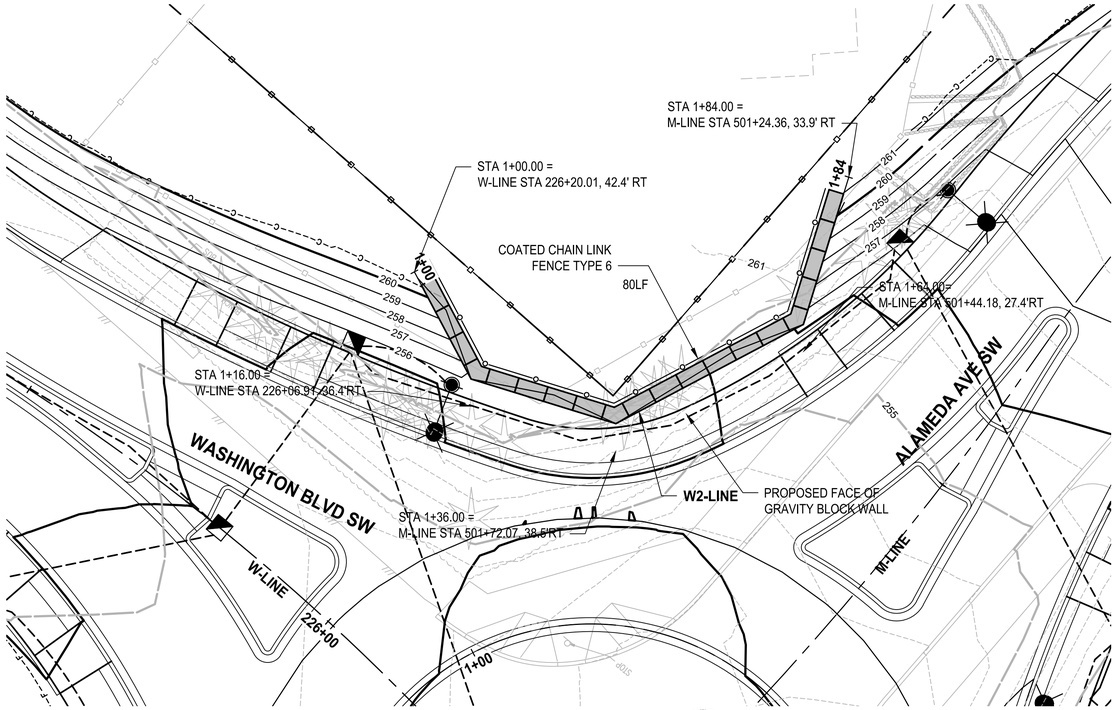
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# WALL PLAN AND PROFILE

DRAWING NO.
167 OF 169

**WA1**

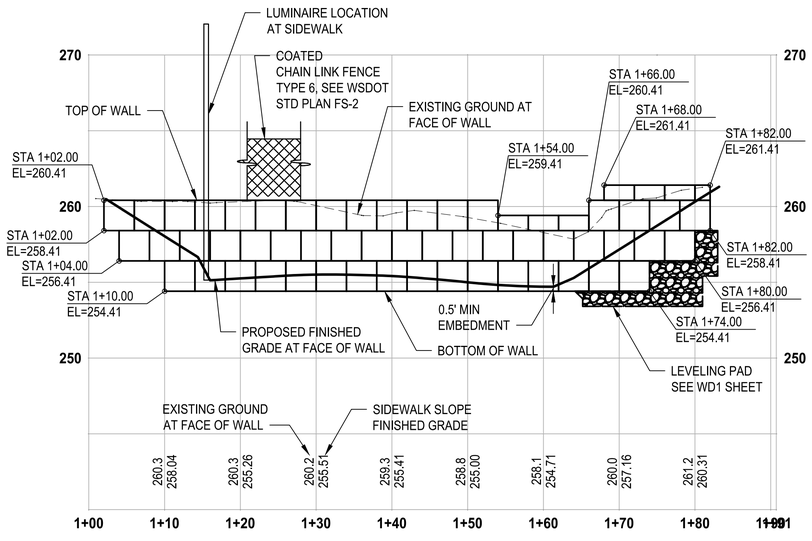

PATH: U:\PSO\Projects\Clients\3047-City of Lakewood\214-3047-013 JBLM NorthAccess\99Svcs\CADD\DWG PLOTTED BY: toylokat DATE: Thursday, January 13, 2022 2:28:48 PM
LAYOUT: WA1




**WALL 2 PLAN**

SCALE IN FEET

0 10 20




**WALL 2 PROFILE**

HORIZ: 1"=10'
VERT: 1"=5'

## GENERAL NOTES:

1. SEE WD1 FOR GENERAL WALL CROSS-SECTION DETAILS.
2. GRAVITY BLOCK WALL LAYOUTS, PROFILES, AND DETAILS SHOWN IN THESE SHEETS ARE APPROXIMATE ONLY FOR BIDDING PURPOSES. CONTRACTOR SHALL PREPARE ENGINEERED DESIGNS AND CITY BUILDING PERMIT APPLICATIONS AND OBTAIN PERMIT APPROVAL PRIOR TO CONSTRUCTING THE WALLS.
3. WALL LAYOUT AS SHOWN IS BASED ON A TYPICAL STANDARD 2'x2'x4' BLOCK SIZE. CONTRACTOR'S ACTUAL LAYOUT MAY VARY DEPENDING ON THEIR SELECTED BLOCK SYSTEM.
4. SEE SPECIAL PROVISIONS SECTION 8-24 FOR ADDITIONAL MATERIAL, SUBMITTAL, AND DESIGN INFORMATION AND REQUIREMENTS.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LAYOUT: WA2


| | REVISIONS | DATE | BY |
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| | | | |

DESIGNED M. TSUN
DRAWN B. PURGANAN
CHECKED D. PROCTOR
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3047013-WA01-02
JOB No. 214-3047-013
DATE JANUARY 2022

CITY OF LAKEWOOD WA 1996

MICHAEL YING TSUN STATE OF WASHINGTON 54964 REGISTERED PROFESSIONAL ENGINEER
01/14/2022


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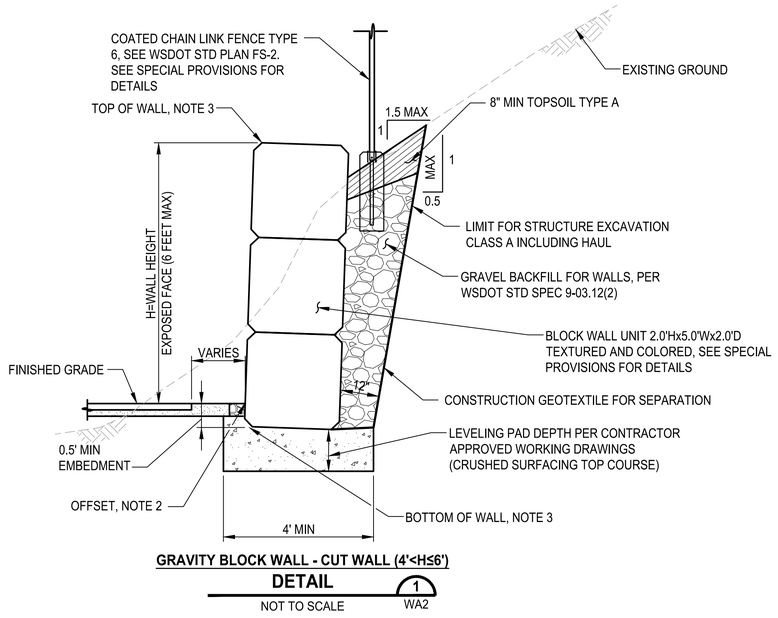
PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# WALL PLAN AND PROFILE

DRAWING NO.
168 OF 169
**WA2**




**GRAVITY BLOCK WALL - CUT WALL (4'<H≤6')**

**DETAIL** 1 / WA2

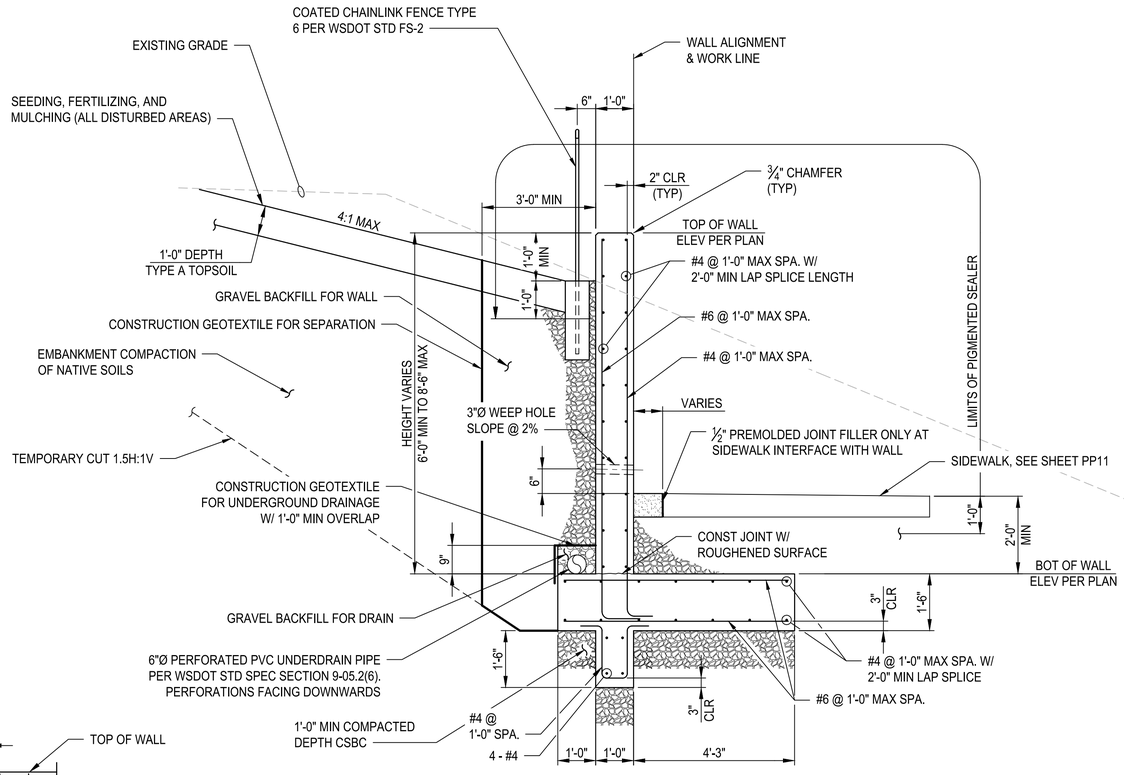
NOT TO SCALE

## NOTES:

1. RESTORE DISTURBED EXISTING GROUND WITH NATIVE SOIL BACKFILL AND SEEDING, ANY LANDSCAPING SHALL BE OFFSET 2 FEET MIN FROM FACE OF WALL.
2. FOR FILL WALLS, OFFSET DISTANCE SHOWN ON THE WALL LAYOUT PLAN IS AT OUTSIDE EDGE OF THE TOP BLOCK. FOR CUT WALLS, OFFSET DISTANCE SHOWN ON THE WALL LAYOUT PLAN IS AT THE BOTTOM OF EXPOSED WALL FACE.
3. SEE WA SHEETS FOR TOP AND BOTTOM OF WALL ELEVATIONS.
4. FILL BLOCK UNITS HOLLOW CORES WITH GROUT . SEE SPECIAL PROVISIONS FOR WALL DESIGN REQUIREMENTS. ALL CONSTRUCTION MUST CONFORM TO MANUFACTURER'S SPECIFIC REQUIREMENTS.

**DESIGN LOAD FOR FILL WALLS**

| | |
|---|---|
| LIVELOAD FOR SIDEWALK | 100 PSF |
| DEADLOAD | NONE |




**CIP CONCRETE WALL**

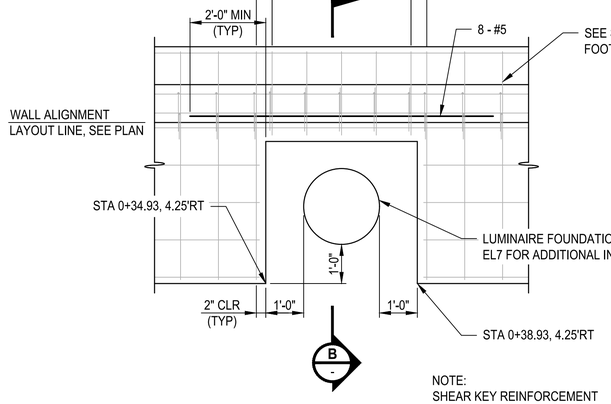
**SECTION** A / WA1

NO SCALE

CSBC = CRUSHED SURFACE BASE COURSE

## NOTES:

1. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2".
2. CAST-IN-PLACE CONCRETE WALL SHALL BE CLASS 4000 CONCRETE.
3. REINFORCING STEEL SHALL BE ASTM 706 GRADE 60.
4. LAP SPLICES SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (LATEST EDITION) AND WSDOT STANDARD SPECIFICATIONS.
5. THE NUMBER AND LENGTH OF REINFORCING BARS SHALL BE DETERMINED BY THE CONTRACTOR FROM THE PLANS. FOR THE HOOKS AND BENDS ON THE BARS, USE WSDOT STD HOOK AND BEND DIMENSIONS.
6. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CLASS 1 SURFACE FINISH IN ACCORDANCE WITH WSDOT STD SPEC SECTION 6-02.3(14)A.
7. PRIOR TO BACKFILLING BEHIND THE WALL, THE CONTRACTOR SHALL PLACE AND COMPACT FILL A MINIMUM OF 1'-0" ABOVE THE FOOTING AND A MINIMUM OF 10'-0" IN FRONT OF THE WALL.




**DETAIL** 2 / WA1

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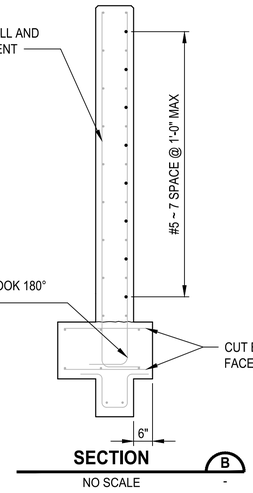
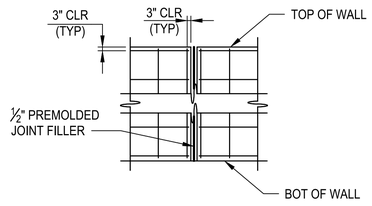



**SECTION** B / -

NO SCALE




**EXPANSION JOINT**

**DETAIL** 3 / WA1

NO SCALE




01/14/2022
DETAIL 1




01/14/2022
DETAIL 2 & 3
SECT A & B

| REVISIONS | DATE | BY |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

DESIGNED M. TSUN/A. MENDOZA
DRAWN B. PURGANAN/A. MENDOZA
CHECKED N. CABLE
APPROVED A. FISHER

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3047013-WD01
JOB No. 214-3047-013
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PROJECT NAME
**JBLM NORTH ACCESS ROAD IMPROVEMENTS - PHASE 2**
LAKEWOOD, WASHINGTON

# WALL DETAILS

DRAWING NO. 169 OF 169

**WD1**

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