

APPROVED FOR PUBLICATION

Paul A. Bucich
Paul A. Bucich, P.E.
 PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20
 DATE



Public Works Department

DATE	REVISION DESCRIPTION	BY	APPROVED
11/05/19	ORIGINAL DRAWING	AD/CD	PAB

6000 Main Street SW 98499

NOT TO SCALE

Residential Cul-De-Sac

RW-01

GENERAL NOTES:

1. THE 12" GUTTER IS INCLUDED IN THE CURB LANE.
2. ADD 12' TO STANDARD CROSS SECTION AND RIGHT-OF-WAY WHEN DUAL LEFT TURN LANES ARE REQUIRED.
3. ADD 4' TO EACH SIDE OF THE PAVEMENT SECTION AND RIGHT-OF-WAY WHEN BIKE LANES ARE REQUIRED OR 5' BIKE LANE WHEN NEXT TO 11' OUTSIDE LANE.
4. PAVEMENT SECTIONS SHOWN ARE MINIMUM ALLOWED AND SHALL BE SUPPORTED BY ENGINEERED PAVEMENT DESIGN.
5. SEE PROJECT LANDSCAPE PLANS FOR FOR PLANTERS STRIP DEDTAILS.
6. 10' SIDEWALK WIDTH AT TRANSIT STOP LOCATIONS.

RIGHT-OF-WAY CALCULATION

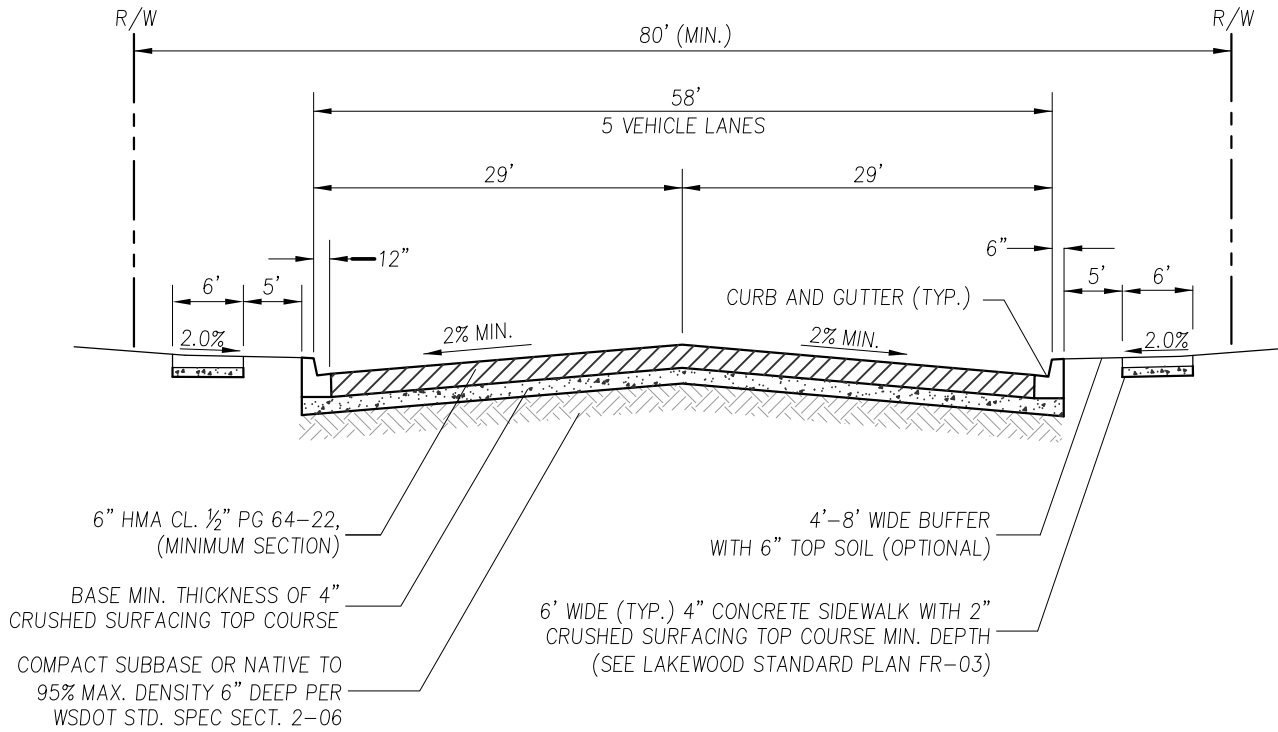
TYPICAL SECTION

2 INSIDE TRAVEL LANES AT 11' = 22'
 2 CURB TRAVEL LANES AT 12' = 24'
 1 TURN LANE AT 12'
 (SEE NOTE 1)

CURB-TO-CURB WIDTH = 58'

2 CURBS AT 0.5' = 1'
 2 PLANTER STRIPS AT 4.5' = 9'
 2 SIDEWALKS AT 6' = 12'

STANDARD RIGHT-OF-WAY WIDTH = 80'



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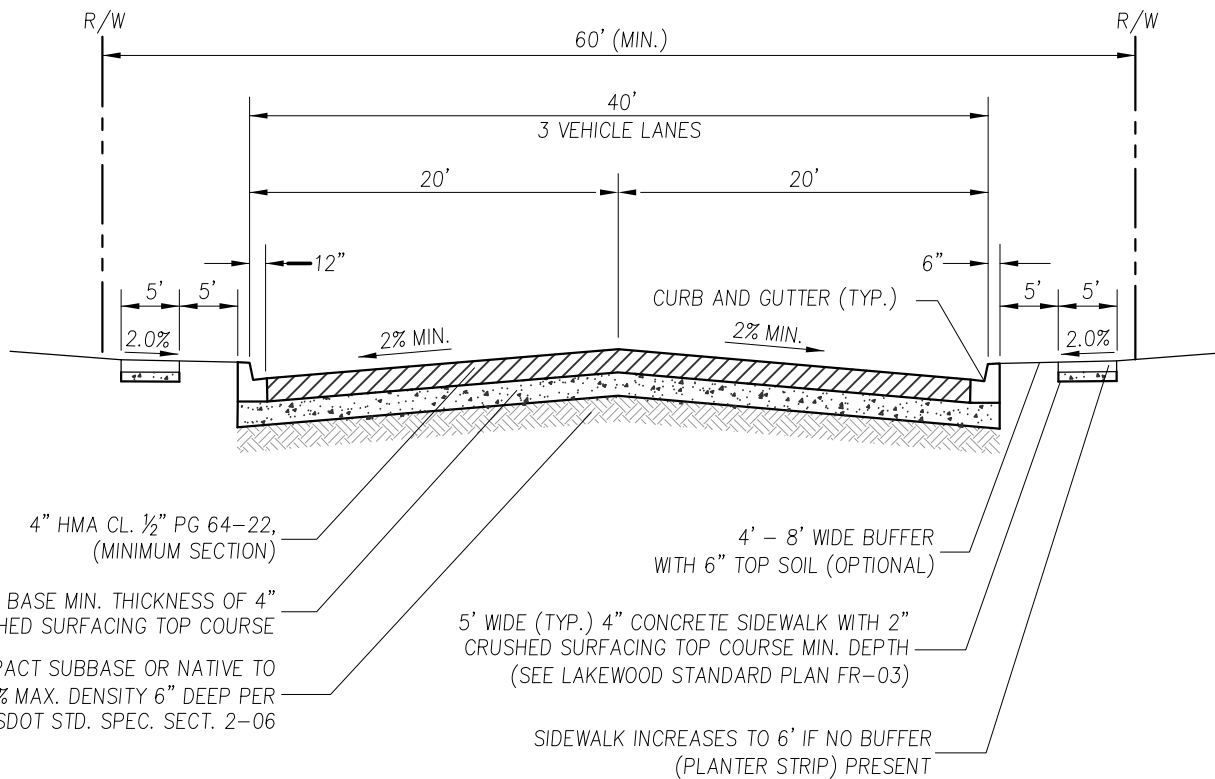
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NOT TO SCALE

Principal/Minor Arterial Street

RW-02



GENERAL NOTES:

1. EXTRA WIDTH MAY BE REQUIRED FOR BICYCLE FACILITIES.
2. THIS TYPICAL STREET CROSS SECTION DOES NOT PROVIDE FOR ON STREET PARKING.
3. PAVEMENT SECTIONS SHOWN ARE MINIMUM ALLOWED AND SHALL BE SUPPORTED BY ENGINEERED PAVEMENT DESIGN.
4. SEE PROJECT LANDSCAPE PLANS FOR PLANTERS STIP DETAILS.
5. 10' SIDEWALK WIDTH AT TRANSIT STOP LOCATIONS.

RIGHT-OF-WAY CALCULATION

TYPICAL SECTION

2 CURB LANES AT 14' = 28'
 1 TURN LANE AT 12'
 (SEE NOTE 2)

CURB-TO-CURB WIDTH = 40'

2 CURBS AT 0.5' = 1'
 2 PLANTER STRIPS AT 4.5' = 9'
 2 SIDEWALKS AT 5' = 10'

STANDARD RIGHT-OF-WAY WIDTH = 60'

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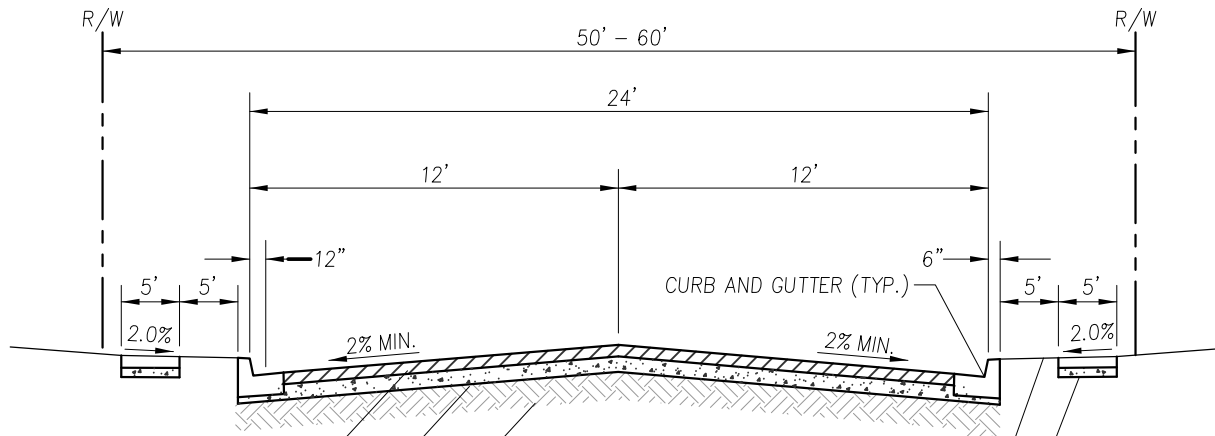
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**Collector
 Arterial Street**

RW-03



3" HMA CL. 1/2" PG 64-22,
(MINIMUM SECTION)

BASE MIN. THICKNESS OF 4"
CRUSHED SURFACING TOP COURSE

COMPACT SUBBASE OR NATIVE TO
95% MAX. DENSITY 6" DEEP PER
WSDOT STD. SPEC. SECT. 2-06

4' - 6' WIDE BUFFER WITH 6"
TOPSOIL (OPTIONAL)

5' WIDE (TYP.) 4" CONCRETE SIDEWALK WITH 2"
CRUSHED SURFACING TOP COURSE MIN. DEPTH
(SEE LAKEWOOD STANDARD PLAN FR-03)

GENERAL NOTES:

1. THE TRAVEL LANES ACCOMMODATE BICYCLES AND MOTORIZED VEHICLES.
2. 10' SIDEWALK WIDTH AT TRANSIT STOP LOCATIONS.
3. RIGHT OF WAY WIDTH 50 FEET WITH UNDERGROUND UTILITY; 60 FEET WITH SURFACE UTILITIES.

RIGHT-OF-WAY CALCULATION

TYPICAL SECTION

2 TRAVEL LANES AT 12' = 24'

CURB-TO-CURB WIDTH = 24'

2 CURBS AT 0.5' = 1'

2 PLANTER STRIPS AT 5' = 10'

2 SIDEWALKS AT 5' = 10'

STANDARD RIGHT-OF-WAY
WIDTH = 60'

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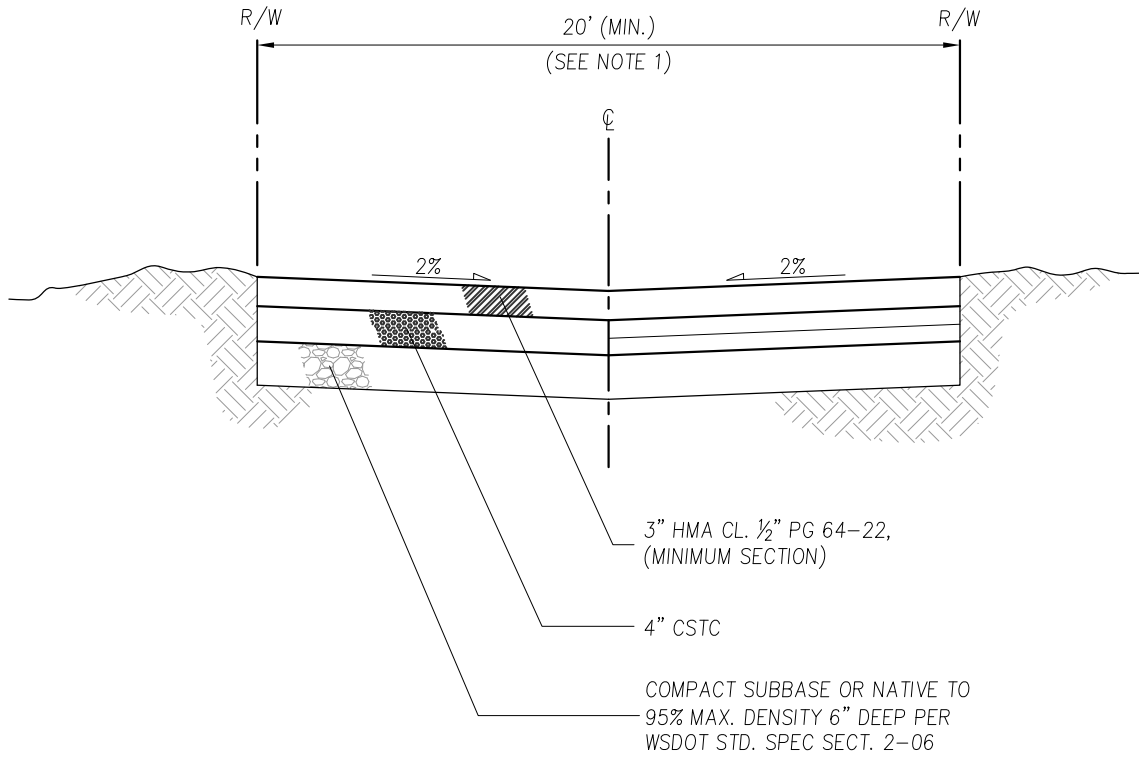
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**Local Access
Street**

RW-04

GENERAL NOTES:

1. ALL NEW ALLEYS SHALL HAVE A MINIMUM WIDTH OF 20'. ALLEY RIGHT-OF-WAYS MAY VARY. SEE LAKEWOOD ENGINEERING STANDARDS MANUAL SECTION 4.10.
2. COMPACTION TESTS ON HMA SHALL BE A MIN. OF 92% OF MAXIMUM DENSITY VALUE.
3. COMPACTION TESTS ON SUBGRADE AND TOP OF ROCK WILL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE DIRECTOR. ALL TESTING SHALL BE THROUGH A LICENSED LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DRY DENSITY OF BOTH SUBGRADE AND TOP OF ROCK.
4. ADJUST ALL UTILITIES TO FINISH GRADE.



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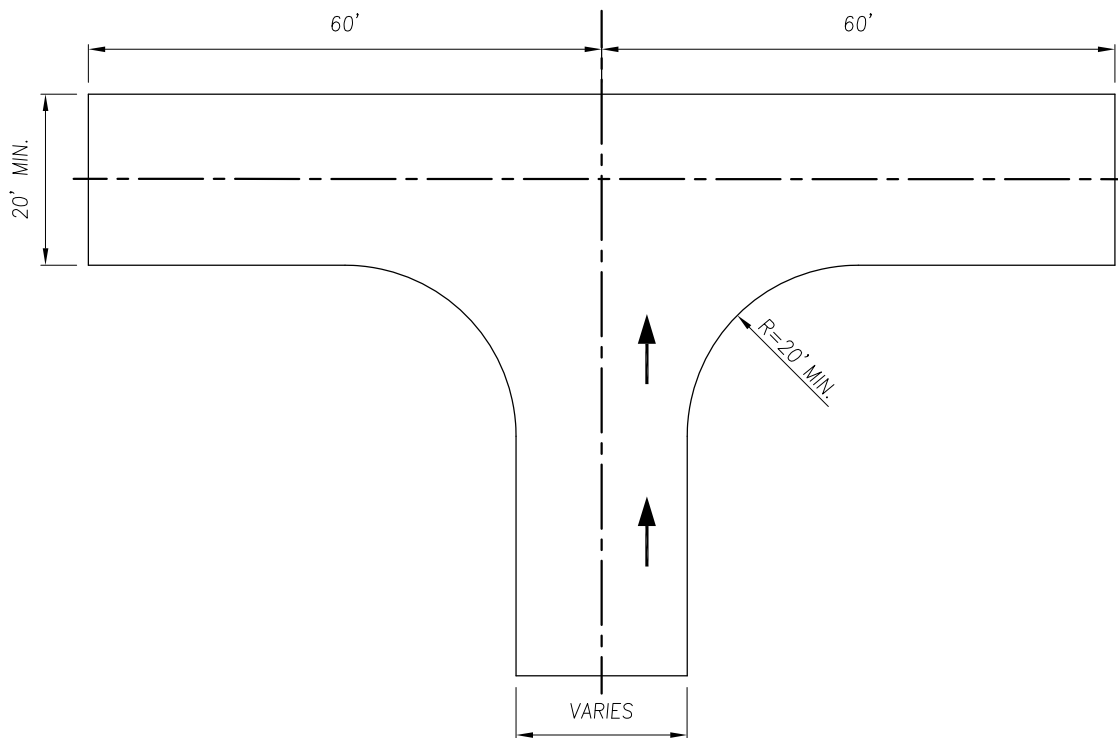
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NOT TO SCALE

Alley

RW-05



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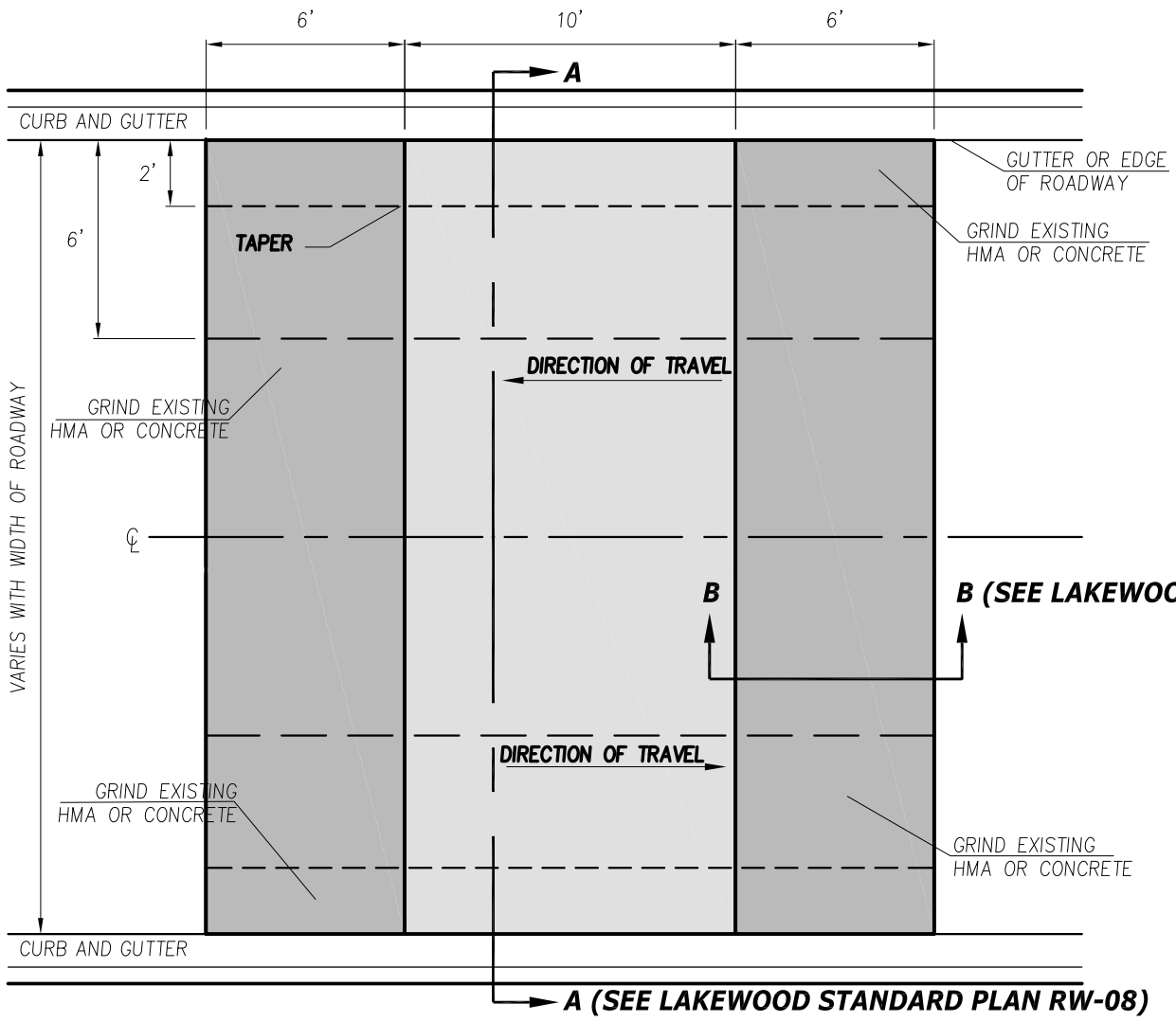
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NOT TO SCALE

**Dead-End
 Hammerhead**

RW-06



GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION UNLESS OTHERWISE NOTED.
2. EXACT LOCATIONS OF SPEED TABLE TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
3. TAPER SPEED TABLE TO TWO INCHES ABOVE EXISTING SHOULDER GRADE IF THERE IS NO CURB AND GUTTER.
4. SEE LAKEWOOD STANDARD PLAN RW-08 FOR TYPICAL SECTION "A-A" A NORMAL CROWN SECTION DETAIL. EXISTING ROADWAY PAVEMENT PROFILES AND CROWN MAY VARY FROM THE TYPICAL. IN ALL CASES A 3" DEPTH HMA TABLE SHALL BE CONSTRUCTED WITH 2" GRINDING AND HMA DEPTH AT THE MEET LINES.
5. SEE LAKEWOOD STANDARD PLAN RW-09 FOR PAVEMENT MARKINGS AND SIGNAGE.

SPEED TABLE - PLAN

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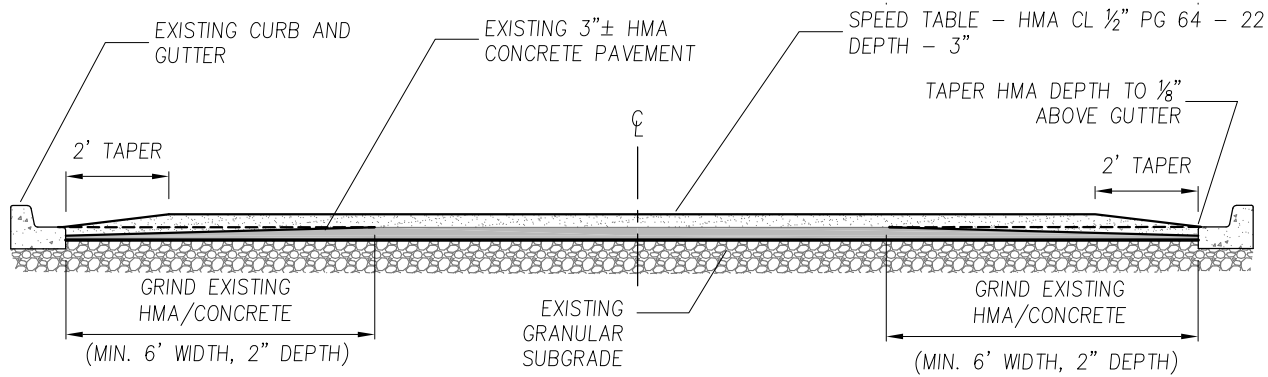
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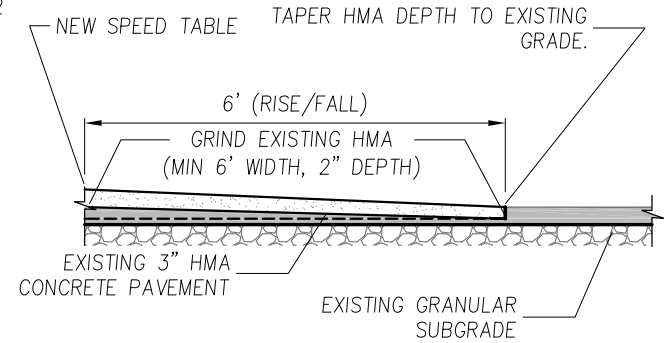
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Speed Table Construction

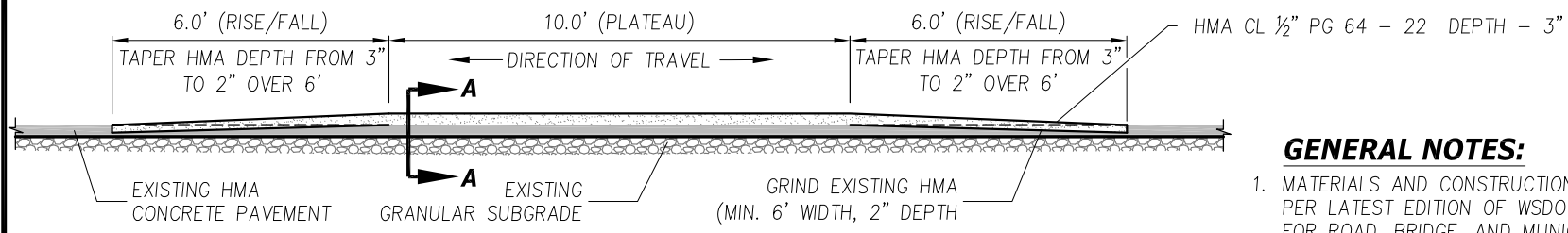
RW-07



SPEED TABLE SECTION A-A



SPEED TABLE SECTION B-B




SPEED TABLE CENTER PROFILE

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION UNLESS OTHERWISE NOTED.
2. EXACT LOCATION OF SPEED TABLES TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
3. IF CURB AND GUTTER DOES NOT EXIST, TAPER SPEED TABLE TO TWO INCHES ABOVE EXISTING SHOULDER GRADE.

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CITY OF LAKEWOOD, WA
1996

Public Works Department

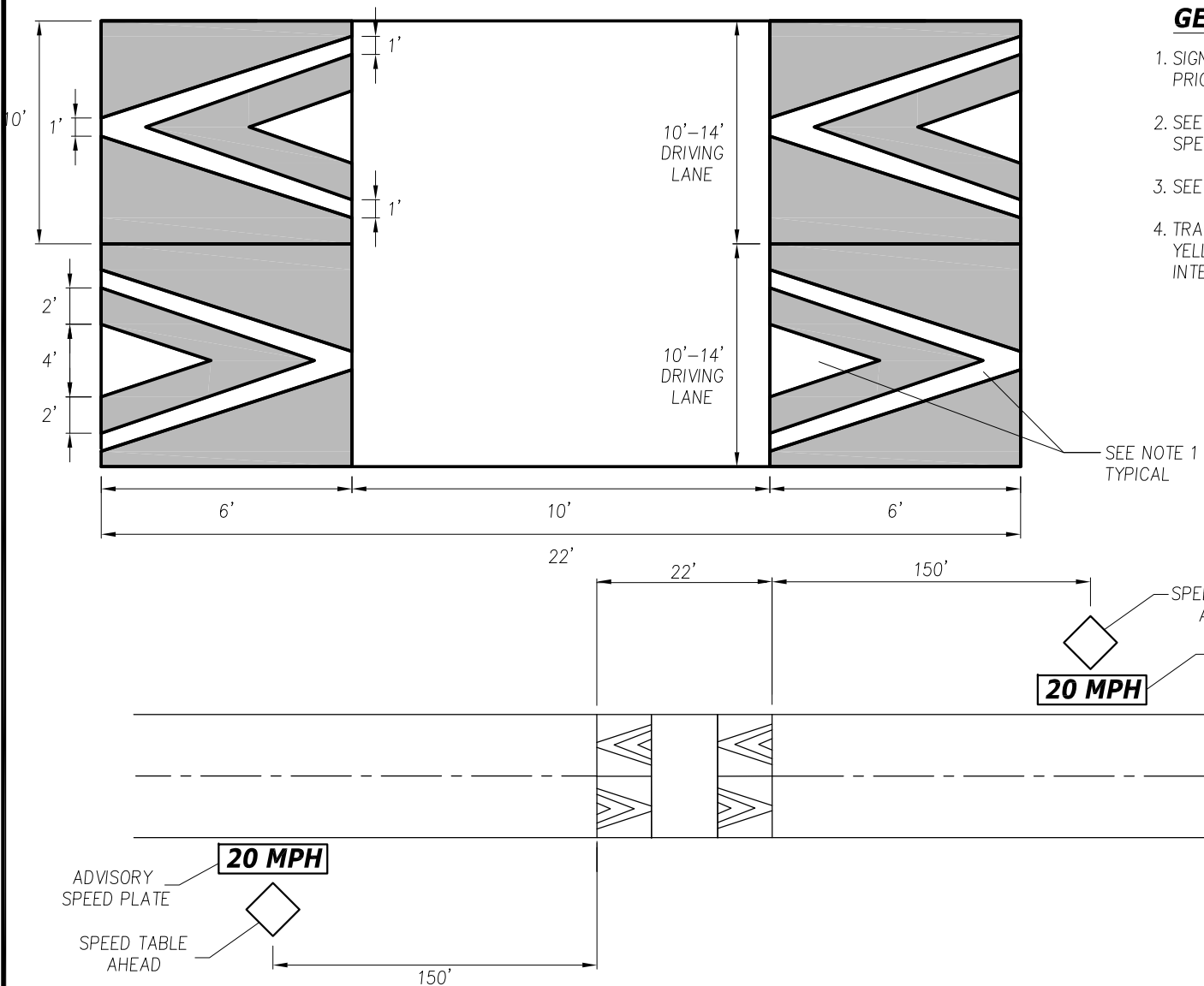
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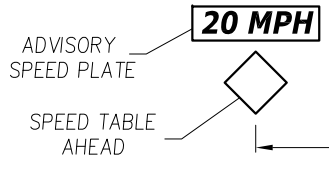
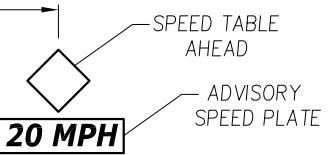
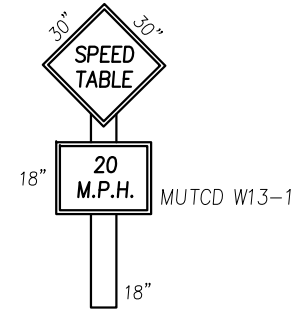
**Speed Table
Details**

RW-08



GENERAL NOTES:

1. SIGNS AND MARKINGS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
2. SEE LAKEWOOD STANDARD PLAN RW-07 AND RW-08 FOR SPEED TABLE CONSTRUCTION DETAILS.
3. SEE MUTCD FIGURE 3B-30 FOR PAVEMENT MARKING DETAILS.
4. TRAFFIC SIGNS SHALL HAVE BLACK BORDER AND TEXT ON YELLOW BACKGROUND. SIGNS SHALL HAVE TYPE FOUR HIGH INTENSITY SHEETINGS.



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**Speed Table
 Pavement Markings
 and Signage**

RW-09