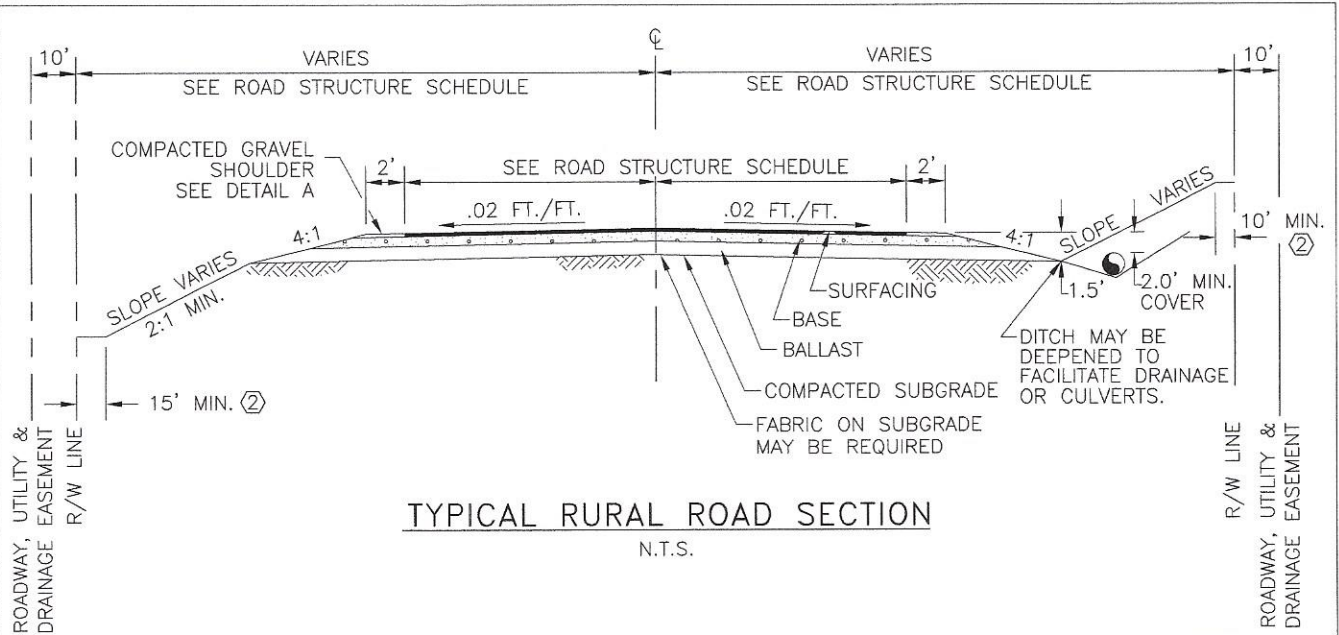


# STANDARD DRAWINGS

## INDEX

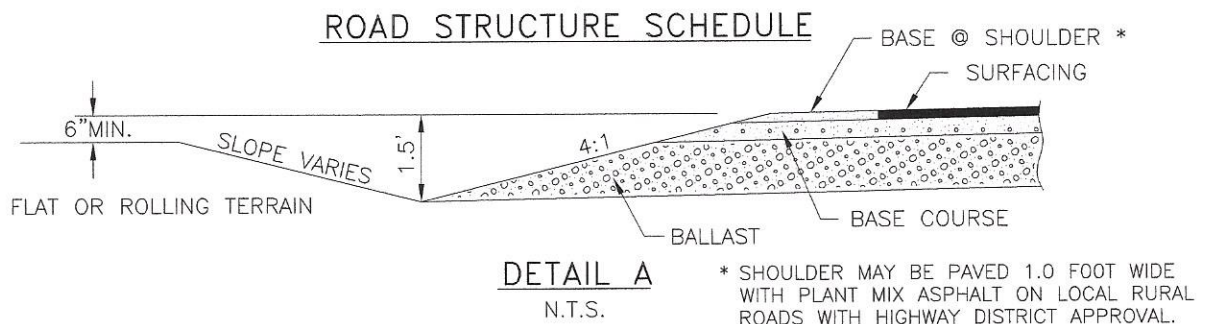
SD – 1	TYPICAL RURAL ROAD SECTION
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SD – 2	TYPICAL CURB & GUTTER SECTION
SD – 3A & 3B	STANDARD APPROACH POLICY
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SD – 15	TYPE E-1 SIGN POST

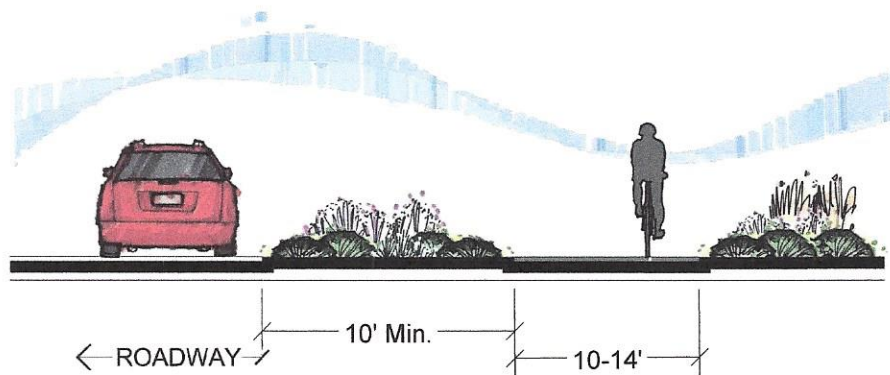


CLASS OF ROAD	BALLAST (3)	BASE COURSE (3)	PLANT MIX PAVEMENT (3)	PAVEMENT WIDTH	RIGHT-OF-WAY WIDTH (FT)
ARTERIAL	12"	4"	4"	40' - 64'	80 - 120
COLLECTOR	12"	4"	4"	24' - 40' (4)	60 - 120
LOCAL RESIDENTIAL	12"	4"	2"	22' - 28' (4)	60
INDUSTRIAL COMMERCIAL	12"	4"	4"	24' - 64'	*OUTSIDE ACI

**NOTES:**

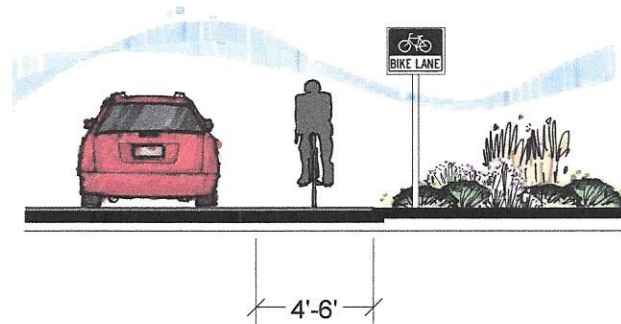
- ① ROAD STRUCTURE SECTIONS SHOWN ARE FOR GRANULAR SUBGRADE OR SUBGRADE SOILS WITH AN R VALUE GREATER THAN 15. A GEOTECHNICAL DESIGN IS REQUIRED FOR OTHER SOIL CONDITIONS. SUBGRADE TO BALLAST FABRIC SEPARATION IS REQUIRED ON NON-GRANULAR SUBGRADES. SEEDING OF ALL DENUEDED AREAS IS REQUIRED.
- ② IN CUT AND FILL SECTIONS, 10 FEET AT THE TOP OF CUT AND 15 FEET AT TOE OF FILL MAY SERVE AS ROADWAY, UTILITY & DRAINAGE EASEMENT WITH CONCURRENCE OF THE HIGHWAY DISTRICT.
- ③ DEPTHS ARE MINIMUM COMPACTED DEPTH REQUIREMENTS.
- ④ SEE SECTION 306 - ROADWAY CROSS SECTION.
- ⑤ CURB, GUTTER AND ROADWAY SECTION SHALL COMPLY WITH APPLICABLE CITY STANDARDS WHEN LOCATED WITHIN AREA OF CITY IMPACT.
- ⑥ ROAD CENTERLINE PROFILE MUST BE ABOVE THE ORIGINAL GROUND LINE AT CENTERLINE AND EDGE OF RIGHT OF WAY, IN FLAT OR ROLLING TERRAIN.





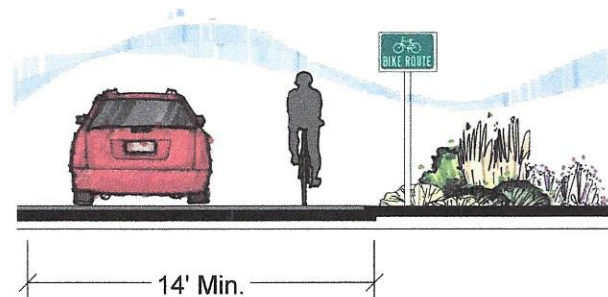
(Separated path from roadway for exclusive use of bicycles and pedestrians)

### CLASS I BIKE PATH



Width depends on parking and edge condition  
(Striped Bike Lane with Bike Lane symbol)

### CLASS II BIKE LANE



Shared use with pedestrians and motor vehicle traffic.

### CLASS III BIKE ROUTE

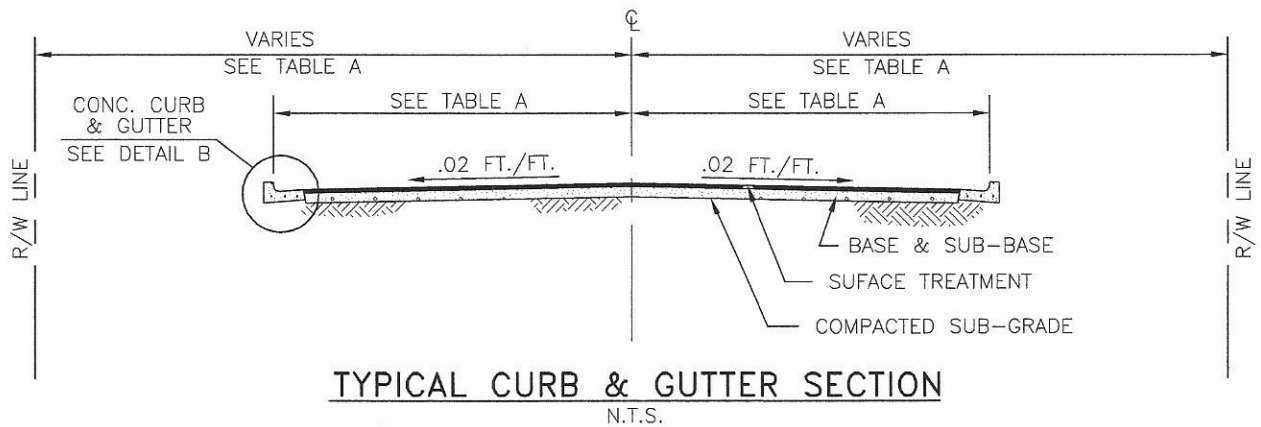
#### NOTES:

BIKE LANES/ROUTES SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES AND WITH THE CONCURRENCE OF THE RESPECTIVE HIGHWAY DISTRICT.

#### BIKE LANE CLASSES

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

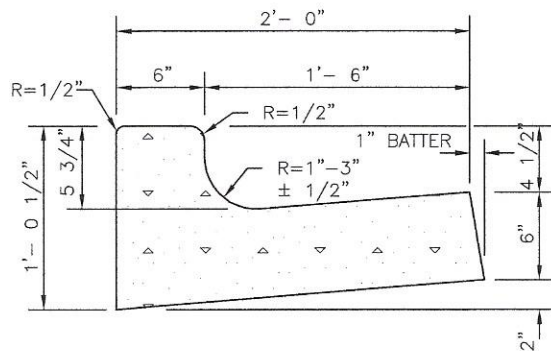




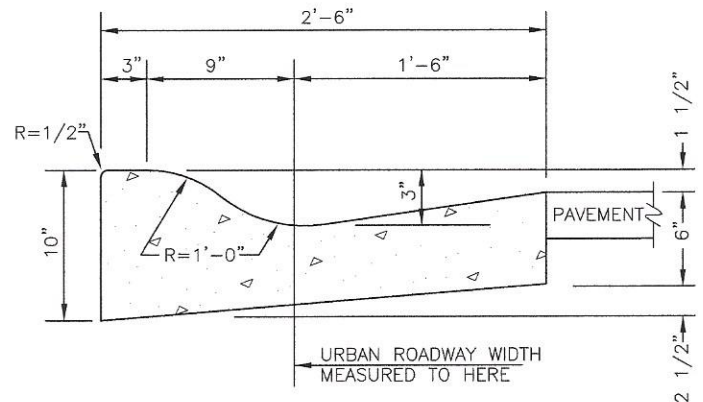
CLASS OF ROAD	ROAD WIDTH FACE-FACE OF CURB	RIGHT-OF-WAY WIDTH (FT)	CURB TYPE
MINOR ARTERIAL	64'- 0"	80 - 120	VERTICAL
COLLECTOR OR COMMERCIAL	40'- 0"	60 - 120	VERTICAL
LOCAL RESIDENTIAL	36'- 0"	60 - 80	VERTICAL OR ROLL

**TABLE A**

**DETAIL B**  
N.T.S.



**VERTICAL CURB**



**ROLL CURB**  
( LOCAL ROADS ONLY )

**NOTES:**

① CURB, GUTTER AND ROADWAY SECTION SHALL COMPLY WITH APPLICABLE CITY STANDARD WHEN LOCATED WITHIN AN AREA OF CITY IMPACT.

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

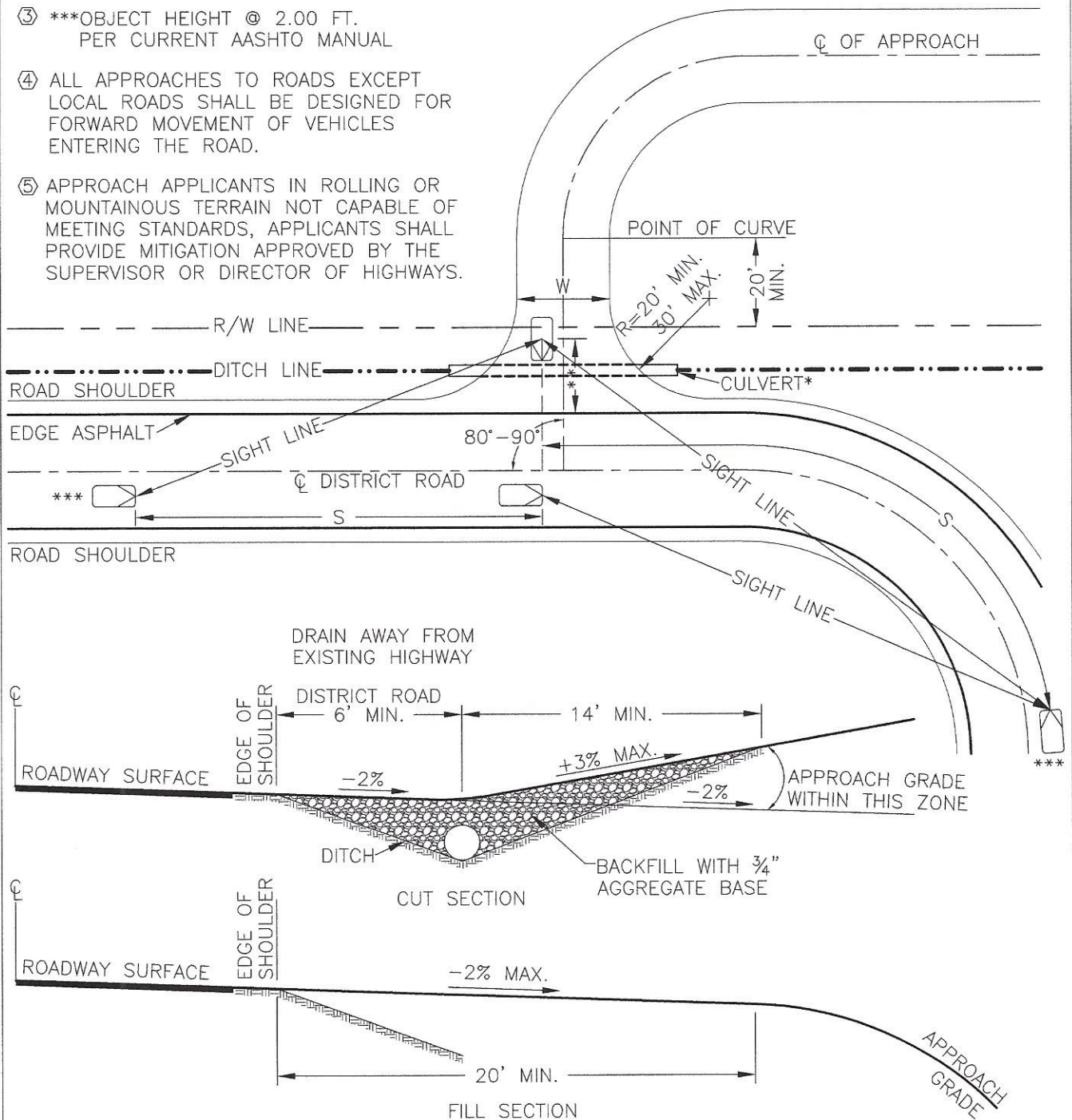
SD-2

## MINIMUM STOPPING SIGHT DISTANCES

DESIGN SPEED MPH	20	25	30	35	40	50	60
STOPPING DISTANCE, (S) FEET	115	155	200	250	305	425	570

### NOTES:

- ① \*CULVERT  
MIN. 12" DIAMETER  
MIN. 40' LENGTH
- ② \*\*10' FROM EDGE OF ROADWAY  
TO DRIVER'S EYE POSITION @ 3.50 FT.  
ABOVE ROAD
- ③ \*\*\*OBJECT HEIGHT @ 2.00 FT.  
PER CURRENT AASHTO MANUAL
- ④ ALL APPROACHES TO ROADS EXCEPT  
LOCAL ROADS SHALL BE DESIGNED FOR  
FORWARD MOVEMENT OF VEHICLES  
ENTERING THE ROAD.
- ⑤ APPROACH APPLICANTS IN ROLLING OR  
MOUNTAINOUS TERRAIN NOT CAPABLE OF  
MEETING STANDARDS, APPLICANTS SHALL  
PROVIDE MITIGATION APPROVED BY THE  
SUPERVISOR OR DIRECTOR OF HIGHWAYS.



## STANDARD APPROACH POLICY

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

SD-3A

Dear Building Contractor and/or Owner:

Both Kootenai County and the Associated Highway Districts of Kootenai County have minimum requirements for access roadways and driveways to residential properties. The Highway District's requirements are set forth in this letter. Failure to comply with these regulations has caused a multitude of problems for residents and the Highway District. This letter is provided to you as part of a continuing effort by the Highway District to improve the safety and integrity of roadways in the District.

In an effort to avoid future problems, the Highway District will be performing a thorough review before signing off on Approach Permits. To perform this review, the District will require site information related to the approach. The District's efforts will also be of value to the owner by improving the awareness of the relationship between the home site, driveway and approach to the roadway.

Prior to obtaining Highway District approval for an approach permit, the Highway District will require submission of a site plan for the lot and driveway showing:

1. A 20 foot minimum, 30 foot maximum curve radius on edge of the driveway from the edge of the roadway pavement. All of the driveway, including the radius shall be within the extension of the lot line or property line.
2. A minus 2% driveway slope from the edge of the pavement to the center of the ditch line. This allows surface water from the driveway to drain off into the ditch and not sheet drain onto the roadway.
3. A positive 3% maximum driveway slope from the center of the ditch line to the right-of-way line where the driveway goes uphill from the roadway.
4. A minus 2% driveway slope from the edge of pavement for a distance of at least 20' where the driveway goes downhill from the roadway.
5. The proposed driveway slope from the right-of-way line to the garage or parking pad. The Highway District suggests meeting the requirements of Kootenai County's Ordinance for private road or driveway grades. Grades of 10% or greater shall not exceed one hundred (100) feet in length".
6. A sectional drawing of the driveway within the Highway District right-of-way showing driveway width, ditch section, maximum slopes for grading, maximum slope heights and erosion control measures to be used on the slopes. The driveway standard for the Highway District within the District's right-of-way is a width of at least 20 feet.
7. A site plan showing the location of the house and garage and/or parking pad with dimensions from side, front and rear lot lines. The site plan must provide for forward movement of all vehicles as they enter the Highway District roads.
8. The site plan shall show the proposed location of mailbox and any mailbox turnout area.

If you have any further questions, please don't hesitate to contact the appropriate Highway District:

East Side Highway District (208) 765-4714

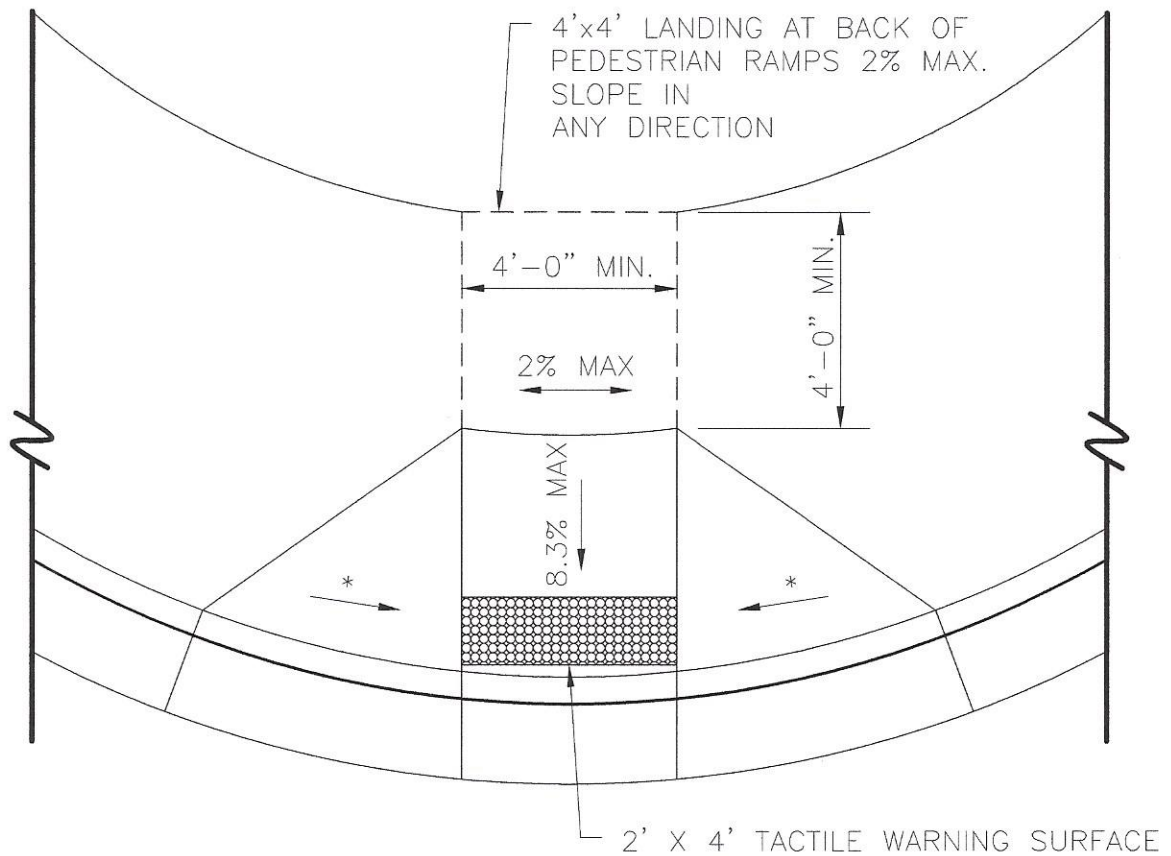
Lakes Highway District (208) 772-7527

Post Falls Highway District (208) 765-3717

Worley Highway District (208) 664-0483

SD-3B





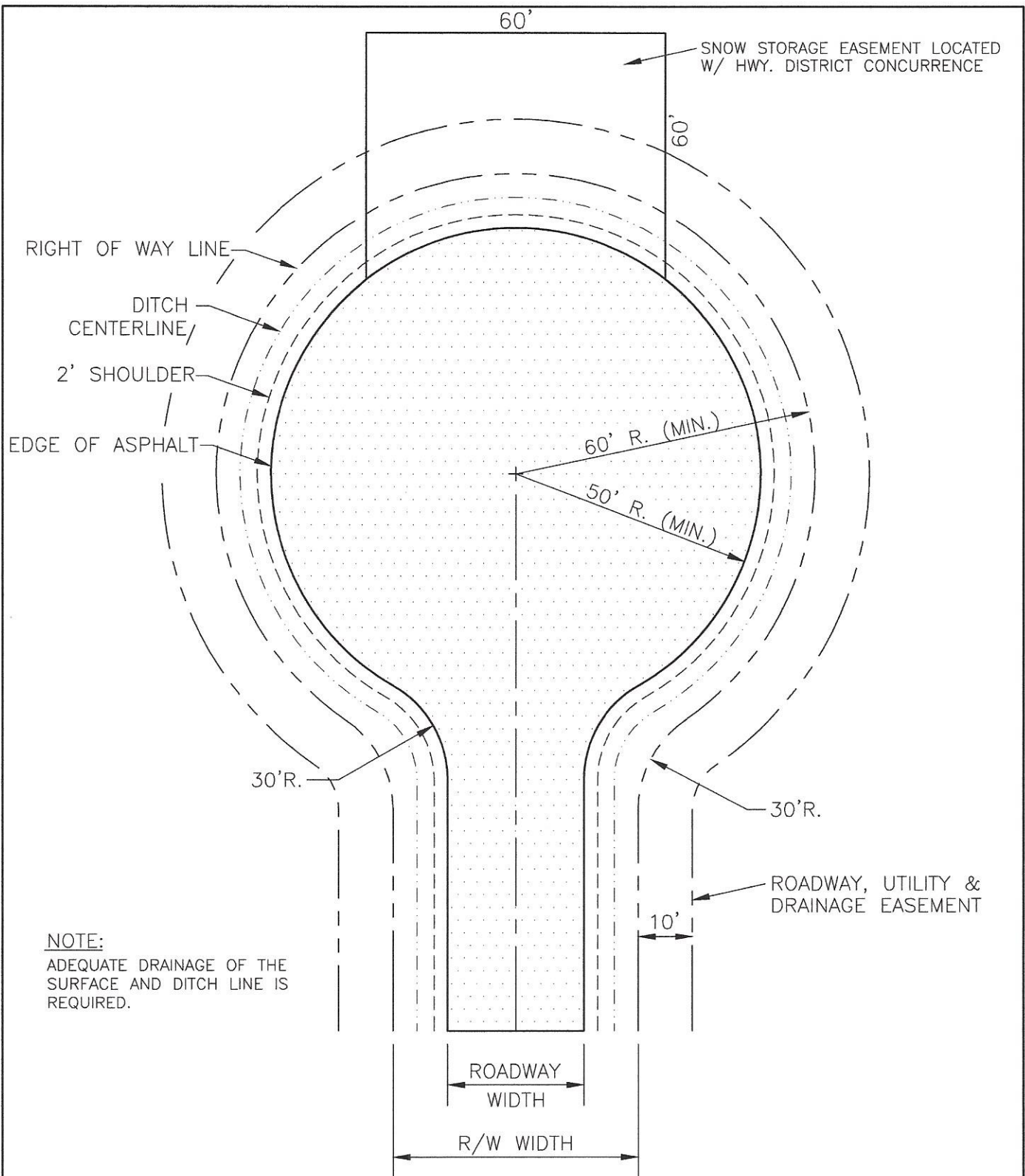
\* MAXIMUM SLOPE 1:10

NOTES:

- ① PEDESTRIAN CURB DROPS ARE REQUIRED WHERE CURBS ARE USED.
- ② ALL PEDESTRIAN CURB DROPS MUST MEET AREA OF CITY IMPACT STANDARDS FOR THE LOCAL COMMUNITY.
- ③ ALL PEDESTRIAN CURB DROPS MUST COMPLY WITH THE AASHTO STANDARDS AND ADA REQUIREMENTS, LATEST EDITIONS.

STANDARD PEDESTRIAN CURB DROP

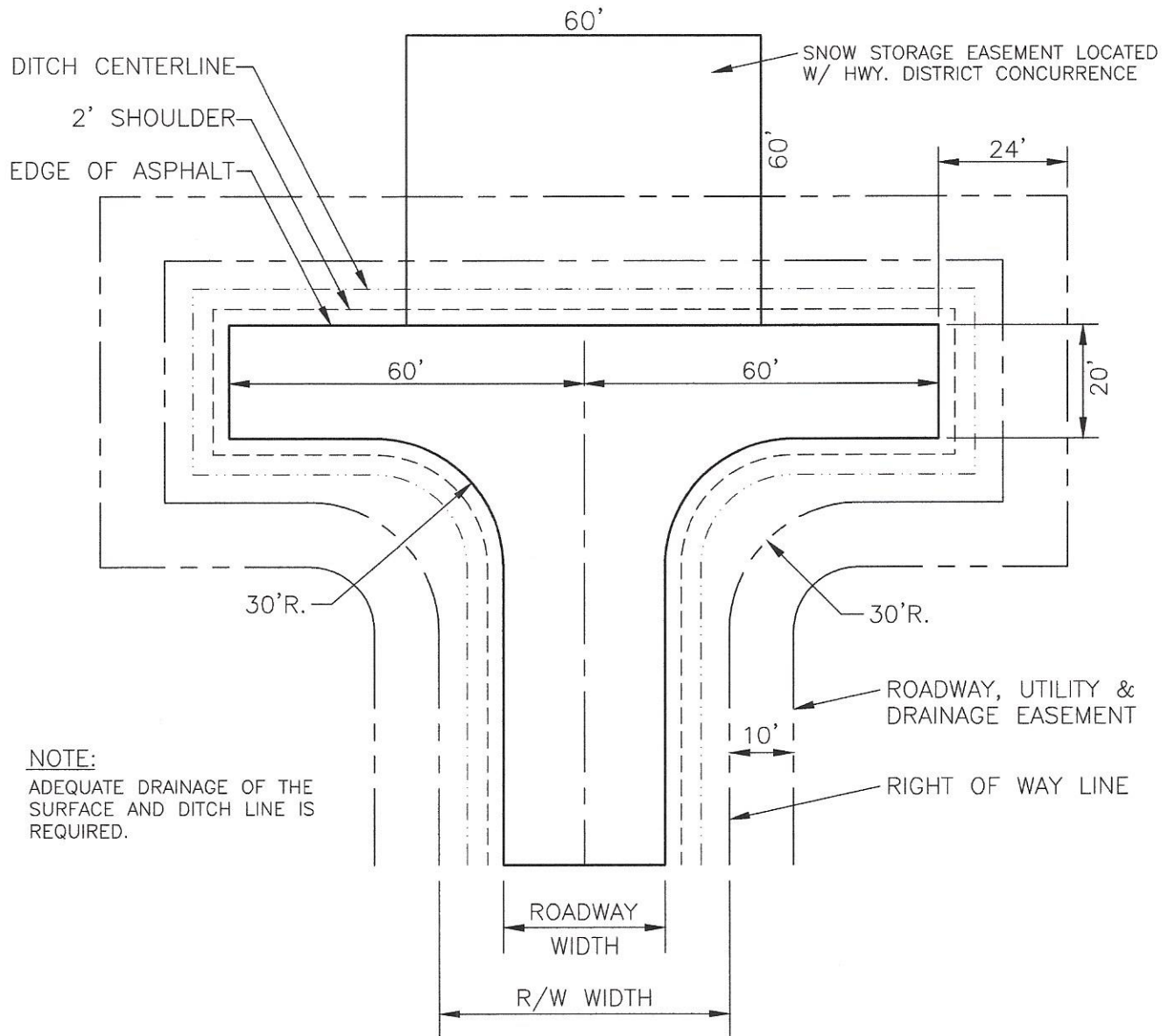
ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO



**STANDARD CUL-DE-SAC LAYOUT**  
N.T.S.

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO



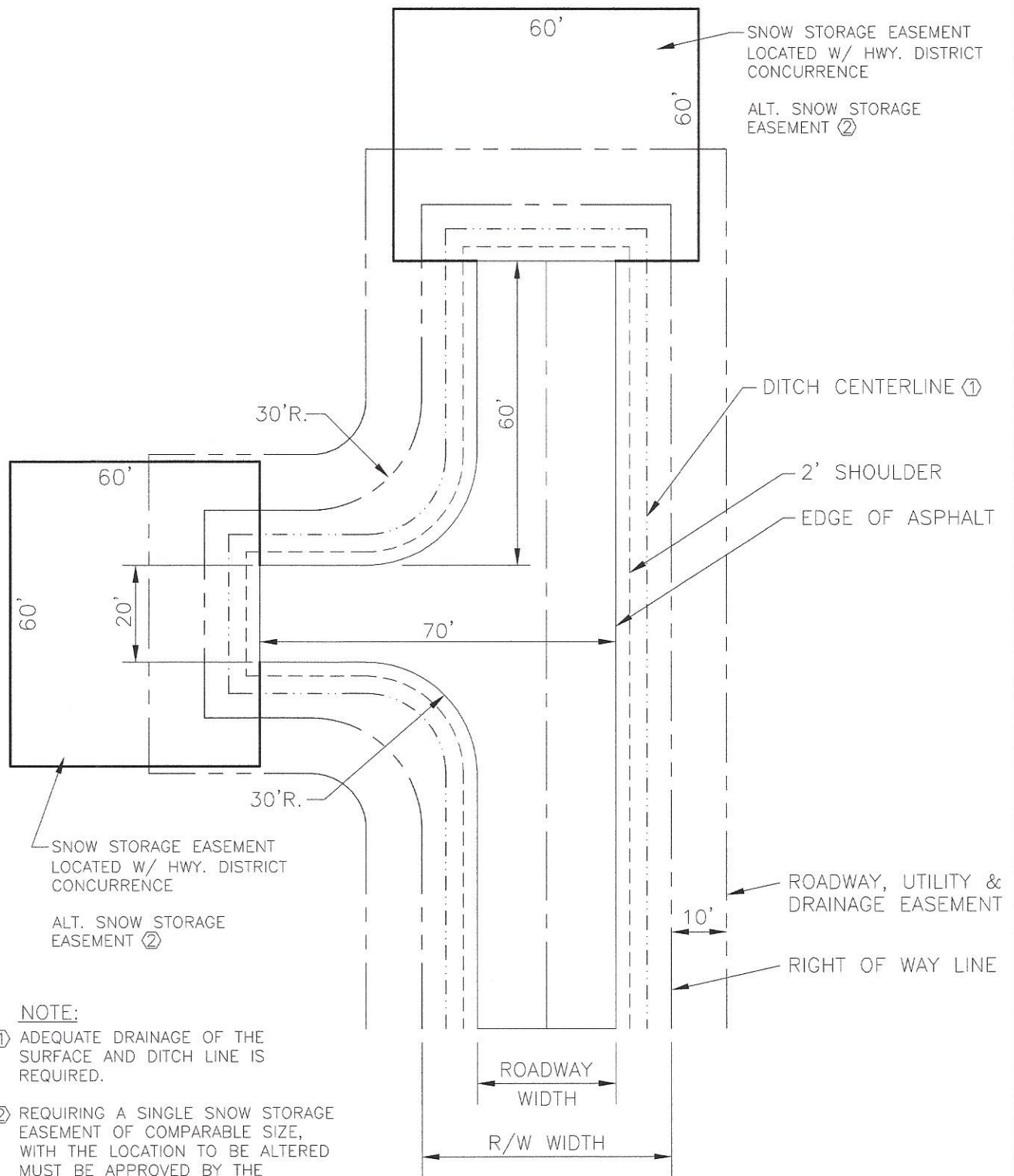


### STANDARD HAMMERHEAD TURNAROUND LAYOUT

N.T.S.

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

SD-5A

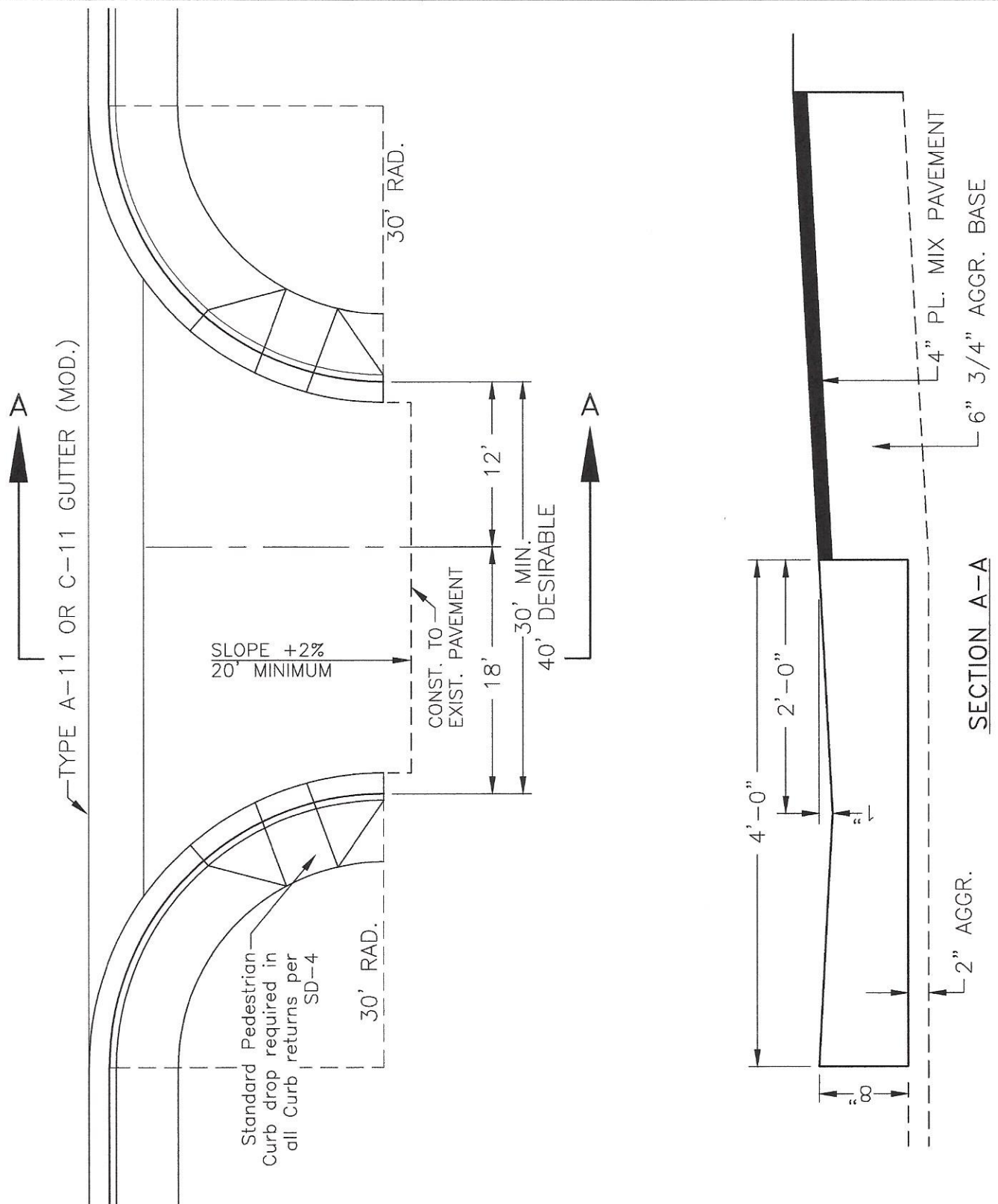


## STANDARD HAMMERHEAD TURNAROUND LAYOUT

N.T.S.

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

SD-5B



**CURB RETURN APPROACH FOR TRUCK TRAFFIC**  
 REF.: LHTAC FIG.IV,C FROM "MANUAL FOR USE OF  
 PUBLIC RIGHT-OF-WAY STANDARD APPROACH POLICY"

ASSOCIATED HIGHWAY DISTRICTS  
 KOOTENAI COUNTY, IDAHO



## OPEN-CUT POLICY & CHIP SEALING REQUIREMENTS

This policy applies to any person or firm wishing to Open-Cut a road within the jurisdiction of the Kootenai County Associated Highway Districts.

An open cut may be allowed at the Road Supervisors discretion when one or more of the following circumstances is met.

1. The road is classified as a local road.
2. The road is gravel.
3. The road is scheduled for reconstruction within 1 year.
4. The road has an ADT of 100 or less.
5. It is in the best interest of the public or the Highway District.

The Highway Districts will require any person or firm wishing to open-cut a road within this Highway District to place a bond with the Highway District for 150% of the estimated cost of restoring the road surface plus a fee of \$500.00 plus \$2.40/square yard of disturbed road surface. This fee is to be charged to insure that the proper overlap on all joints is done. When one (1) lane is removed and replaced to centerline, the full road width will be sealed in order to seal all joints, repair any damage to the other lane, and the status of the full width of the road will be maintained.

Payment will be required when application is made to the Highway District for a permit to perform the open-cut.

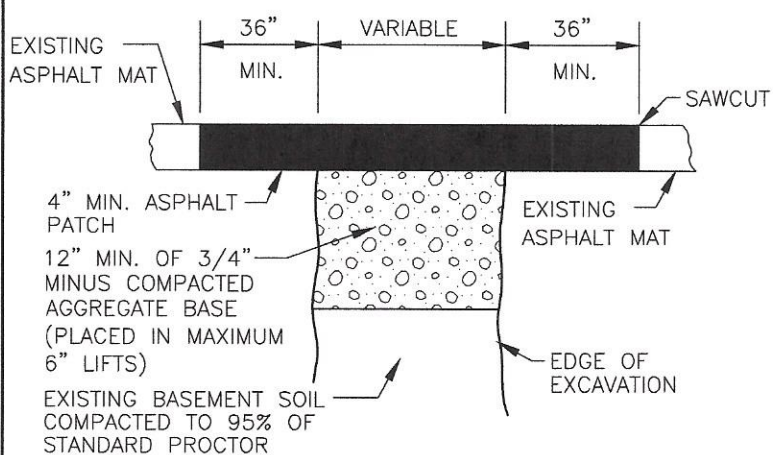
The chip seal on the open-cut roadway will be done the following year during the Highway District's regular chip seal season.

Open-cut repair shall be in accordance with SD-7B.

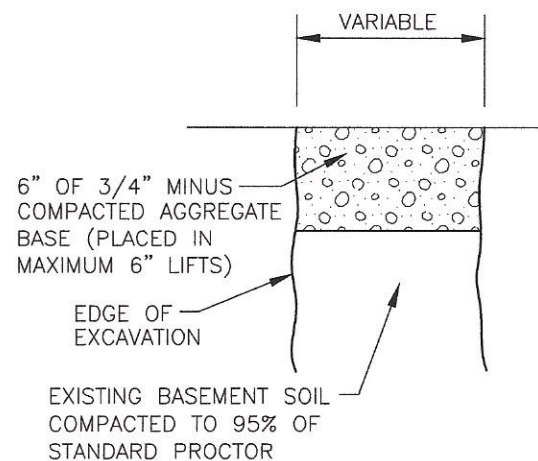
## TRANSVERSE ROAD BORE REQUIREMENTS

All roads with one or more of the following criteria shall be bored, no open cuts shall be allowed unless a bore pit of reasonable size cannot be dug or reveals material that is unsuitable for boring, the bore fails to cross the road after 3 attempts or the pipe size is too big for a reasonable bore.

1. The road has a functional classification of a minor collector or above.
2. The pavement is less than 5 years old.
3. The road has been chip sealed within the last 3 years.
4. The road is being used as a detour route.



**PAVED SURFACE**



**GRAVEL SURFACE**

**NOTES:**

1. FULL DEPTH CONTROLLED DENSITY FILL (CDF) 1 SACK MIX MAY BE REQUIRED FULL DEPTH OF THE TRENCH
2. BACKFILL AT SUBGRADE SHALL NOT SHOW VISIBLE DEFLECTION UNDER 4,000 LB. WHEEL LOAD.
3. WHERE 50% OR MORE OF THE SURFACE AREA OF PAVEMENT HAS BEEN REMOVED OR DAMAGED, FULL WIDTH RESTORATION SHALL BE REQUIRED. ANY STRIP OF REMAINING PAVEMENT LESS THAN TWO FEET IN WIDTH ALONG CURB AND GUTTER OR PAVEMENT EDGE SHALL BE REMOVED AND REPLACED.
4. WHERE STREET SURFACING HAS BEEN IN SERVICE FIVE YEARS OR LESS, THE CONTRACTOR MUST BORE CROSSINGS. STREET CUTS PARALLEL TO CENTERLINE MUST BE APPROVED BY THE HIGHWAY DISTRICT AND WILL REQUIRE RESURFACING USING A PAVING MACHINE. CROSSINGS OF MAJOR COLLECTOR STREETS AND ARTERIALS MAY REQUIRE BORING AT THE DIRECTION OF THE HIGHWAY DISTRICT.
5. STREET SURFACING SHALL BE TACKED TO A NEAT STRAIGHT LINE WITH THE EDGES FREE OF DUST, MOISTURE OR LOOSE MATERIAL.
6. ALL COLD JOINT SURFACES SHALL BE TACKED WITH EMULSION WHICH SHALL HAVE "BROKEN" PRIOR TO PATCHING.
7. MATERIALS AND CONSTRUCTION OF STRUCTURAL REPAIR SHALL CONFORM TO HIGHWAY DISTRICT SPECIFICATIONS.
8. COMPLETED PATCH SHALL NOT DEViate FROM EXISTING SURFACE MORE THAT 0.03 FT. /10 FT. IN PROFILE OR 0.05 FT. / 10 FT. IN CROSS-SECTION WHEN MEASURED WITH A 10 FT. STRAIGHT EDGE.
9. COMPLETED PATCH SHALL NOT POND WATER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF STREET REPAIR FOR TWO YEARS AFTER INSTALLATION. THE BOND SHALL REMAIN IN PLACE FOR THIS TWO YEAR TIME PERIOD.
11. ALL MATERIAL TO BE COMPACTED TO AT LEAST 95% OF OPTIMUM DENSITY PER APPROPRIATE AASHTO STANDARD PROCTOR TEST RESULT.
12. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO TESTS ON THE TRENCH BACKFILL LAYERS AND ONE TEST ON THE 3/4" MINUS AGGREGATE BASE.

**ROAD CUTS AND SURFACE REPAIRS**

ASSOCIATED HIGHWAY DISTRICTS  
KOOTENAI COUNTY, IDAHO

SD-7B