

Jefferson County
Board of Commissioners
Agenda Request

To: Board of Commissioners
Mark McCauley, County Administrator

From: Monte Reinders, P.E., Public Works Director/County Engineer 

Agenda Date: November 21, 2022

Subject: A Resolution Related to Jefferson County Road Standards

Statement of Issue: Adoption of a Resolution related to Jefferson County's road design and construction standards.

Analysis/Strategic Goals/Pro's & Con's: Due to recent changes to 136-50 WAC, Standards of Good Practice - County Road Department Administration, the County Road Administration Board (CRAB) is placing renewed emphasis on ensuring that counties have adopted road standards. Counties are required by 36.86 RCW and 136-50 WAC to adopt county road construction standards.

Jefferson County complies with the above requirement since its road standards have been codified in JCC 18.30.080 for many years. JCC 18.30.080 adopts standards including but not limited to the *Washington State Department of Transportation (WSDOT) Local Agency Guidelines (LAG)* including Chapter 42 "City and County Design Standards", *American Association of State Highway and Transportation Officials (AASHTO) A Policy on the Geometric Design of Highways and Streets*; *Federal Highway Administration Manual on Uniform Traffic Control Devices (MUTCD)*; and the *WSDOT Standard Specifications for Road, Bridge, and Municipal Construction*. Road construction standards imposed through JCC 18.30.080 apply to short plats, long plats, and public county roads, but do not apply to logging roads, agricultural roads, or driveways.

To graphically depict their road standards, many Washington counties adopt typical roadway exhibits which are primarily related to roadway and shoulder width. These exhibits also usually include requirements such as minimum surfacing depth and type, embankment slope angle, turn-around area, etc. Public Works has used typical roadway exhibits for years and has taken this opportunity to update these drawings. They are included with this Resolution as Attachment A so that they can be formally adopted.

Existing Jefferson County road standards also include requirements and standards for building an approach to a county road (JCC 12.05 & 18.30.080). RCW 36.75.130 requires parties to obtain permission from the county before building an approach to a county road and allows the county to adopt "reasonable rules" for building said approaches. JCC 12.05.030 adopts AASHTO and WSDOT standards while also leaving much discretion to the County Engineer or

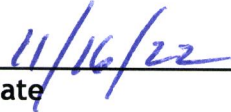
Recommendation: Please review and adopt the attached Resolution which includes Exhibit A, typical road section and road approach standards.

Department Contact: Monte Reinders, Public Works Director/County Engineer x242

Reviewed By:



Mark McCauley, County Administrator



Date

STATE OF WASHINGTON
COUNTY OF JEFFERSON

In the Matter of Updating
County Road Standards

x
x

RESOLUTION NO. _____

WHEREAS, Chapter 136-50 WAC - Standards of Good Practice – County Road Department Administration specifies policies and notifications to be coordinated between the County Engineer, county legislative authority, and the County Road Administration Board; and,

WHEREAS, Chapter 136-50-050 WAC requires that the county legislative authority develop and by resolution or ordinance adopt written policies, within the limits of existing state law, that cover certain matters relating to county road department administration, maintenance, and construction; and,

WHEREAS, Chapter 136-50-050(4) WAC states that the County Engineer shall propose and the legislative authority shall adopt by resolution or ordinance, and amend as needed, standards for all county roads per chapter 36.86 RCW and shall include design standards, construction specifications, and permitting for work within the county road right of way; and,

WHEREAS, due to recent updates to Chapter 136-50 WAC, the County Road Administration Board (CRAB) is placing a renewed emphasis on ensuring that counties have adopted road standards; and,

WHEREAS, Jefferson County road standards have been in place for many years and were adopted through various ordinances which created and amended Jefferson County Code (JCC) 18.30.080 – Development Standards – Roads; and,

WHEREAS, JCC 18.30.080 adopts road design standards referenced in 160-50-050 WAC including but not limited to the Washington State Department of Transportation (WSDOT) *Local Agency Guidelines (LAG)* including Chapter 42 “City and County Design Standards”, American Association of State Highway and Transportation Officials (AASHTO) *A Policy on the Geometric Design of Highways and Streets*; Federal Highway Administration *Manual on Uniform Traffic Control Devices (MUTCD)*; and the WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction*; and,

WHEREAS, the Jefferson County road standards codified in JCC 18.30.080 satisfy the requirements of Chapter 36.86.RCW – Roads and Bridges Standards; and,

WHEREAS, requirements for permits to work within the county road rights of way are codified in JCC 12.05 - Approaches to County Roads and JCC 13.56 - Accommodation of Utilities on Jefferson County Rights of Way; and,

WHEREAS, the figures attached in Exhibit A and dated November 21, 2022 depict typical Jefferson County roadway standards including for road approaches;

NOW, THEREFORE, BE IT RESOLVED that the Jefferson County Board of County Commissioners hereby acknowledges the Jefferson County road standards which are codified in JCC 18.30, JCC 12.05, and JCC 13.56. Furthermore, the Board adopts the typical roadway sections and road approach figures dated November 21, 2022 which are attached in Exhibit A and attached hereto. Finally, the Board recognizes that these figures represent typical roadway conditions and authorizes the County Engineer to use discretion to make exceptions and modifications to these standards when appropriate.

ADOPTED THIS _____ DAY OF _____, 2022.

JEFFERSON COUNTY
BOARD OF COMMISSIONERS

SEAL:

Kate Dean, Commissioner, District #1

Heidi Eisenhour, Commissioner, District #2

Greg Brotherton, Commissioner, District #3

ATTEST:

Carolyn Gallaway, CMC
Clerk of the Board

Exhibit A

Jefferson County Roadway Typical Sections – November 21, 2022

Jefferson County Road Approach Details – November 21, 2022

Jefferson County Road Standards

Nov. 21, 2022

Rd. Std. Type #	1	2	3	4	5	6	7
Road Classification	Rural Access Rd. (4) residences max.	Local Service Rd. ≤ 100 ADT	Local Access Rd. ≤ 400 ADT	ADT 400-750	ADT 751-1000	DHV 100-200	DHV ≥ 201
Roadway Width (1)(2)(4)(5)	14 ft.	20 ft.	22 ft.	26 ft.	28 ft.	34 ft.	40 ft.
Lane Width (2)(4)	7 ft.	7 ft.	9 ft.	10 ft.	10 ft.	11 ft.	12 ft.
Shoulder Width (2)(3)(4)(5)	N/A	N/A	2 ft.	3 ft.	4 ft.	6 ft.	8 ft.
Surfacing	N/A	N/A	2" HMA (6)	2.5" HMA	3" HMA	3" HMA	4" HMA
Crushed Surfacing Top Course	2"	2"	2"	2"	2"	2"	2"
Crushed Surfacing Base Course	4"	4"	4"	4"	4"	6"	6"
Gravel Base (7)	N/A	4"	6"	6"	6"	6"	8"
Ditch Slope (in- slope)	Slopes flatter than 2H:1V are desirable where achievable.			Slopes steeper than 4H:1V should only be used when achieving a 4H:1V slope is impractical.			
Clear Zone/ Side Slopes	AASHTO (8)						

Notes:

- (1) For curbed, distance from face of curb to face of curb. For shouldered, distance from paved edge to paved edge of shoulder.
- (2) May be reduced, by petition to Jefferson County Department of Public Works, to minimum allowed by AASHTO.
- (3) When guardrail is necessary, provide 2 feet min. of widening or longer posts to ensure lateral support.
- (4) For roads with traffic volumes of less than 400 ADT, the low volume road and street standards may be used.
- (5) For guidance for one-way streets, see AASHTO and the current uniform fire code.
- (6) HMA required if County Road.
- (7) Not required if subgrade meets specification for Gravel Base, per WSDOT Standard Specification 9-03.10.
- (8) When using AASHTO guidance for clear zone determinations, the roadway engineer should take into account all AASHTO materials relating to clear zone and project circumstances.

The Design Hourly volume (DHV) is generally the 30th highest hourly volume (30 DHV) of the future year chosen for design.

On the average rural road or arterial, DHV is about 15 percent of ADT. For urban areas, DHV is usually between 8 to 12 percent of the ADT or AADT.

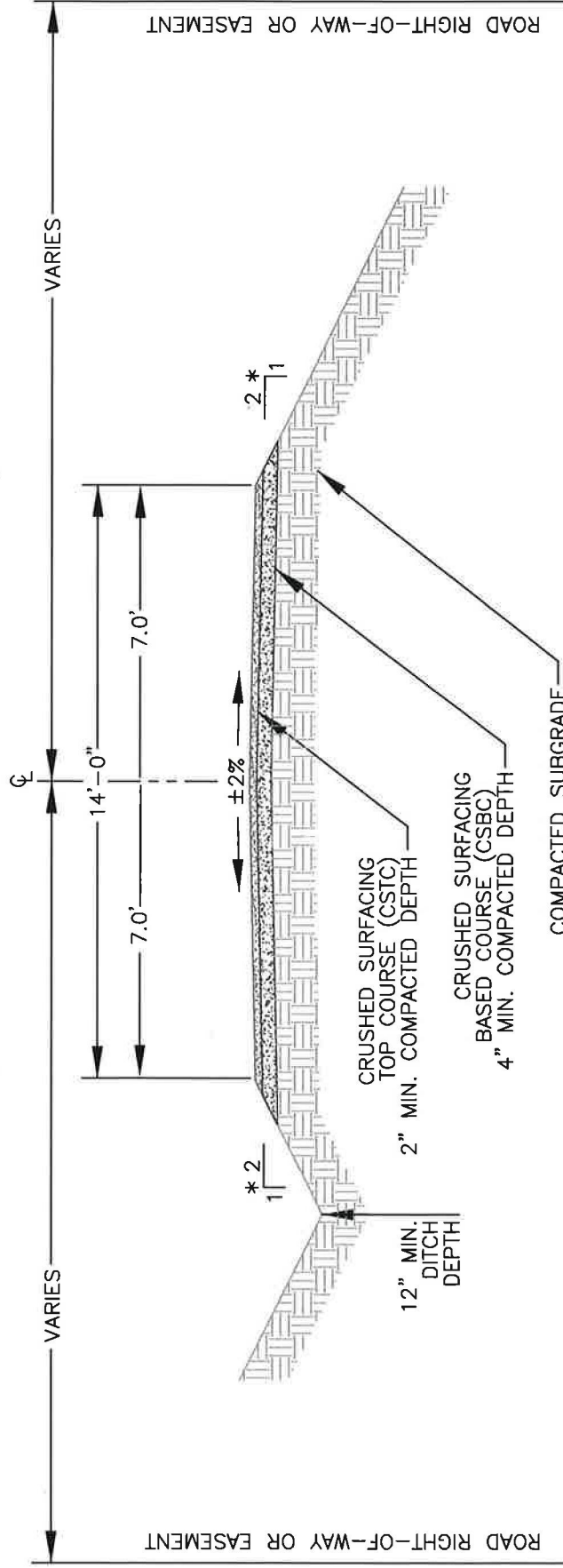




RURAL ACCESS ROAD/DRIVEWAY

14' ROAD SECTION

ONE LANE ROAD WITH TURNOUTS
(SERVES 4 RESIDENCES MAXIMUM)



ROADS SHALL BE CONSTRUCTED TO THE COUNTY'S ADOPTED STANDARDS:

- AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (CURRENT VERSION).
- WSDOT DESIGN MANUAL AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (CURRENT VERSION).
- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE, CHAPTER 18.30.080.

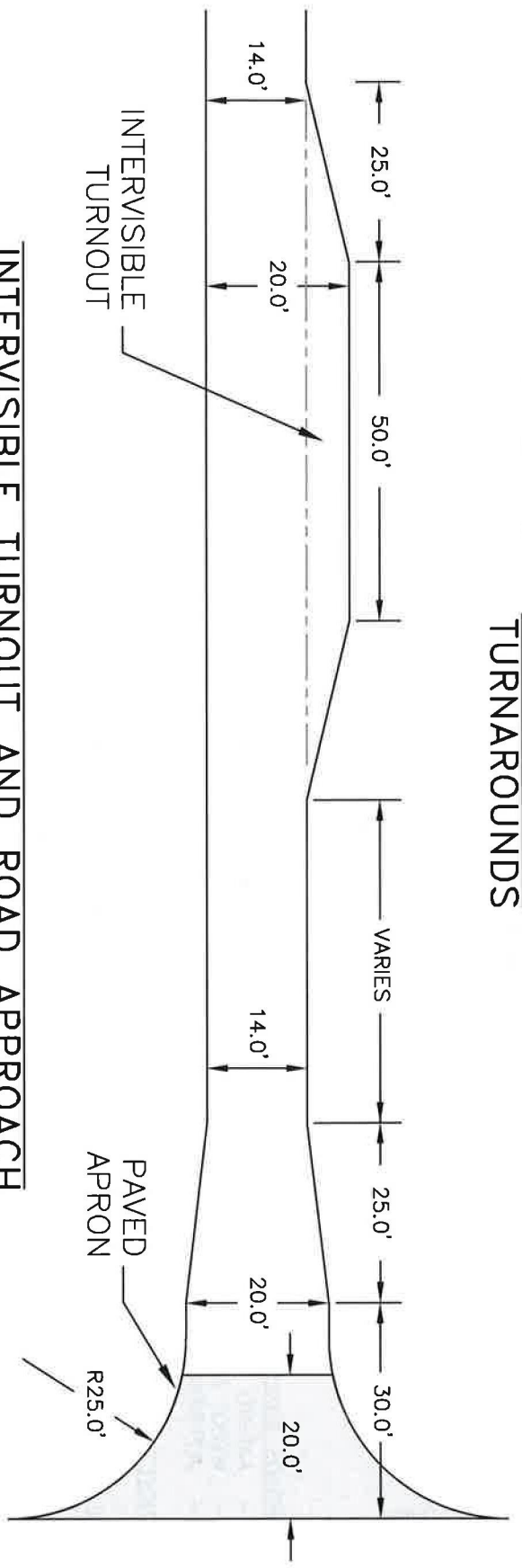
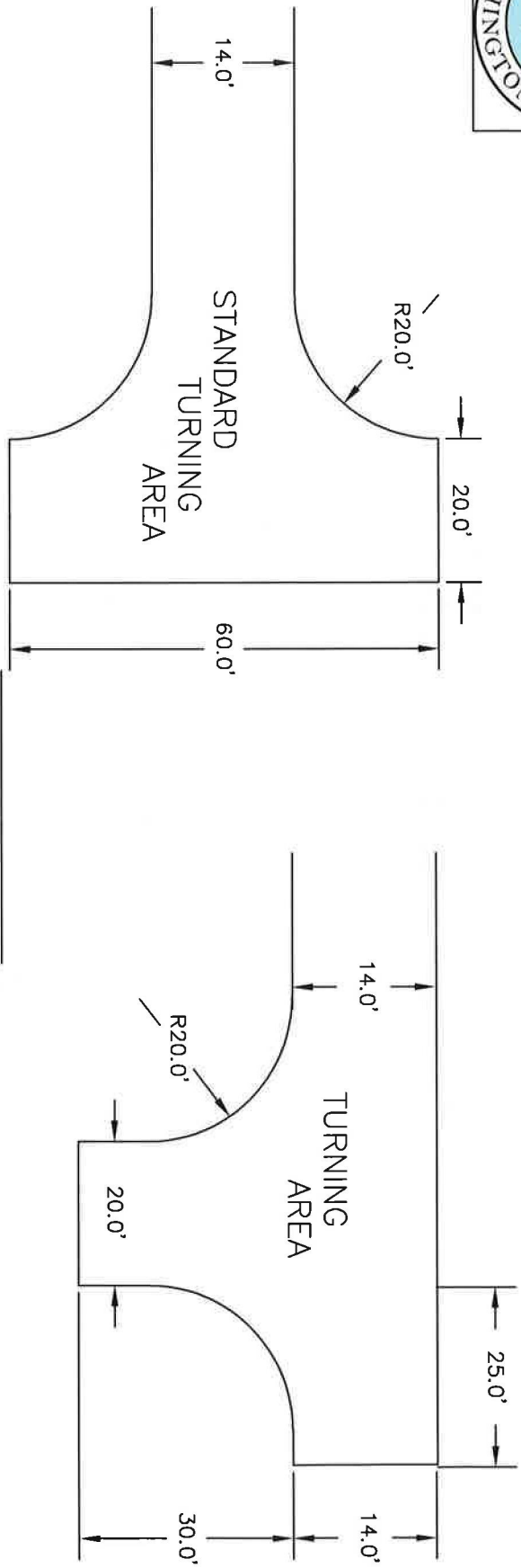
NOTES:

1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOIL CONDITIONS.
3. * SLOPES FLATTER THAN 2H:1V ARE DESIRABLE WHERE ACHIEVABLE.
4. MAXIMUM GRADE IS 12%. GREATER THAN 12% WITH PUBLIC WORKS APPROVAL; PAVED SURFACE MAY BE REQUIRED.
5. ROAD STANDARD IS FOR PRIVATELY MAINTAINED ROADS ONLY WITH NO POTENTIAL FOR FURTHER DEVELOPMENT; NOT A THRU ROAD.
6. INITIAL 30 FOOT SEGMENT AT INTERSECTION SHALL BE 20 FEET WIDE WITH 25 FOOT LONG TRANSITION; SEE DETAIL.
7. 20 FEET WIDE BY 50 FEET LONG INTERVISIBLE TURNOUTS REQUIRED WITH 25 FOOT LONG TRANSITION; SEE DETAIL.



RURAL ACCESS ROAD / DRIVEWAY DETAILS

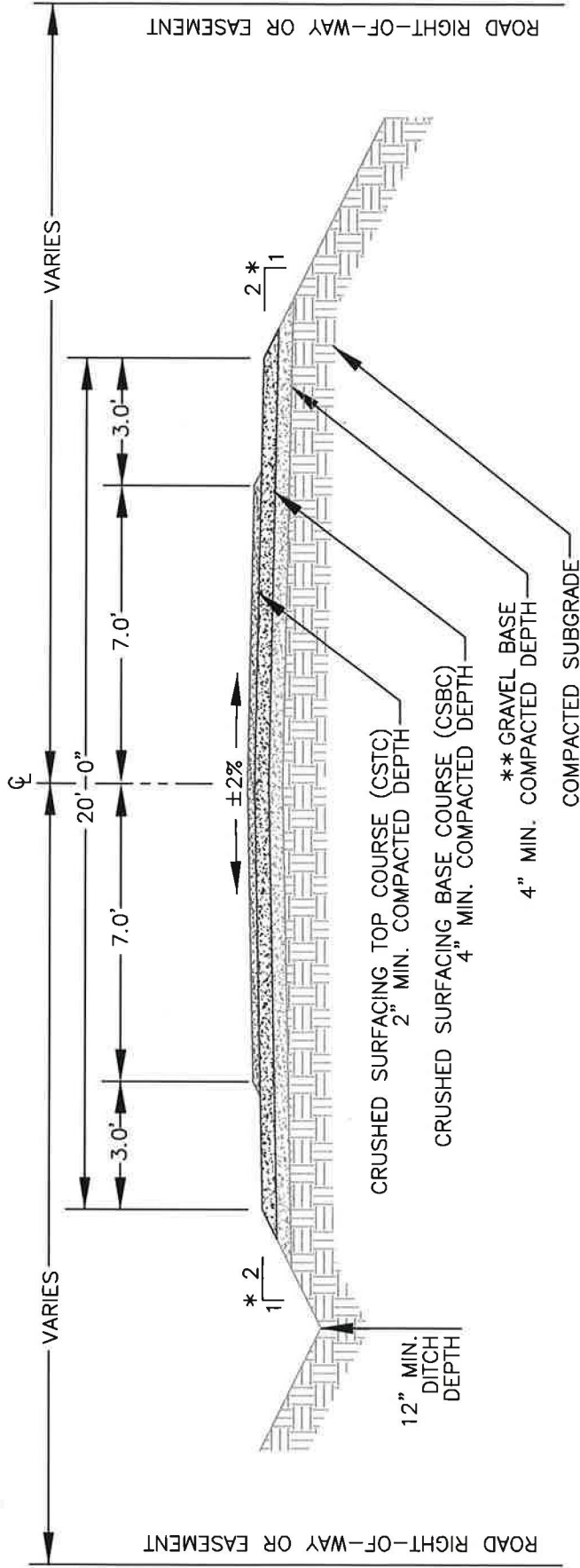
#1



INTERVISIBLE TURNOUT AND ROAD APPROACH



LOCAL SERVICE ROAD
14' ROAD SECTION WITH 20' UNOBSTRUCTED WIDTH
(UNDER 100 ADT)



ROADS SHALL BE CONSTRUCTED TO THE COUNTY'S ADOPTED STANDARDS:

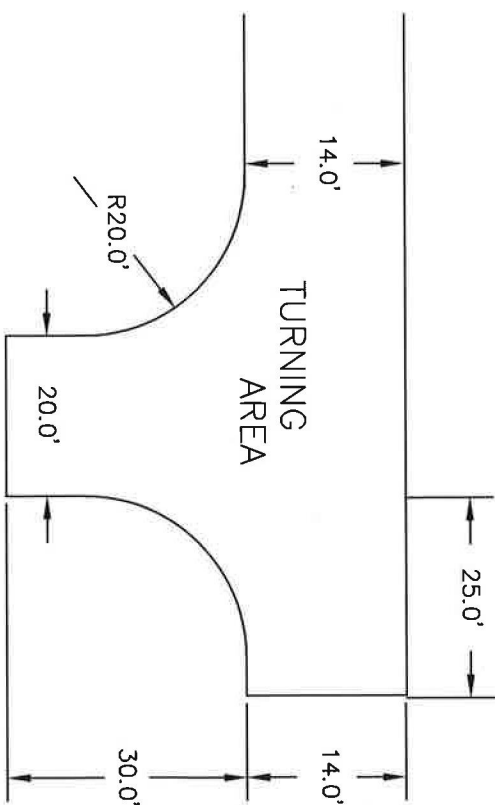
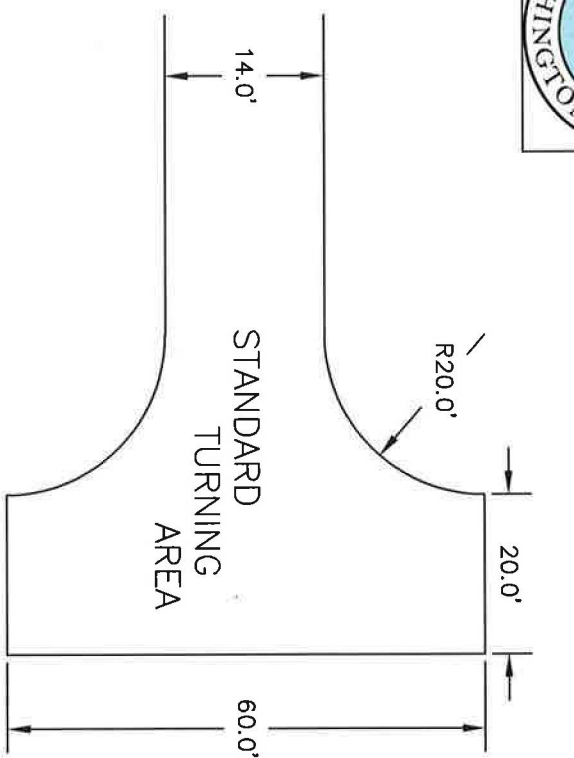
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NOTES:

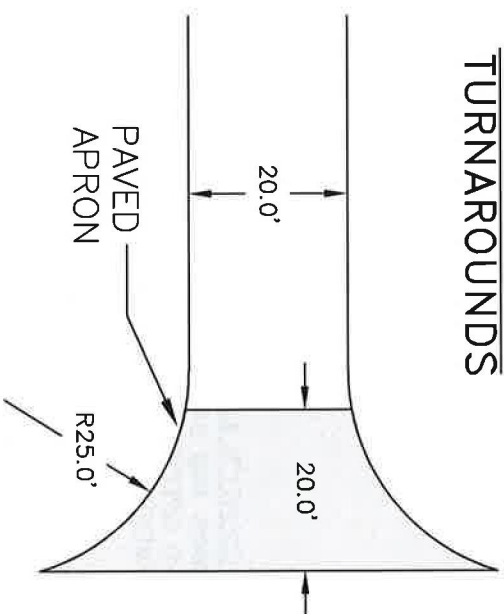
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2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOIL CONDITIONS.
3. * SLOPES FLATTER THAN 2H:1V ARE DESIRABLE WHERE ACHIEVABLE.
4. ** NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 12%. GREATER THAN 12% WITH PUBLIC WORKS APPROVAL; PAVED SURFACE MAY BE REQUIRED.
6. ROAD STANDARD IS FOR PRIVATELY MAINTAINED ROADS ONLY WITH NO POTENTIAL FOR FURTHER DEVELOPMENT; NOT A THRU ROAD.



LOCAL SERVICE ROAD DETAILS



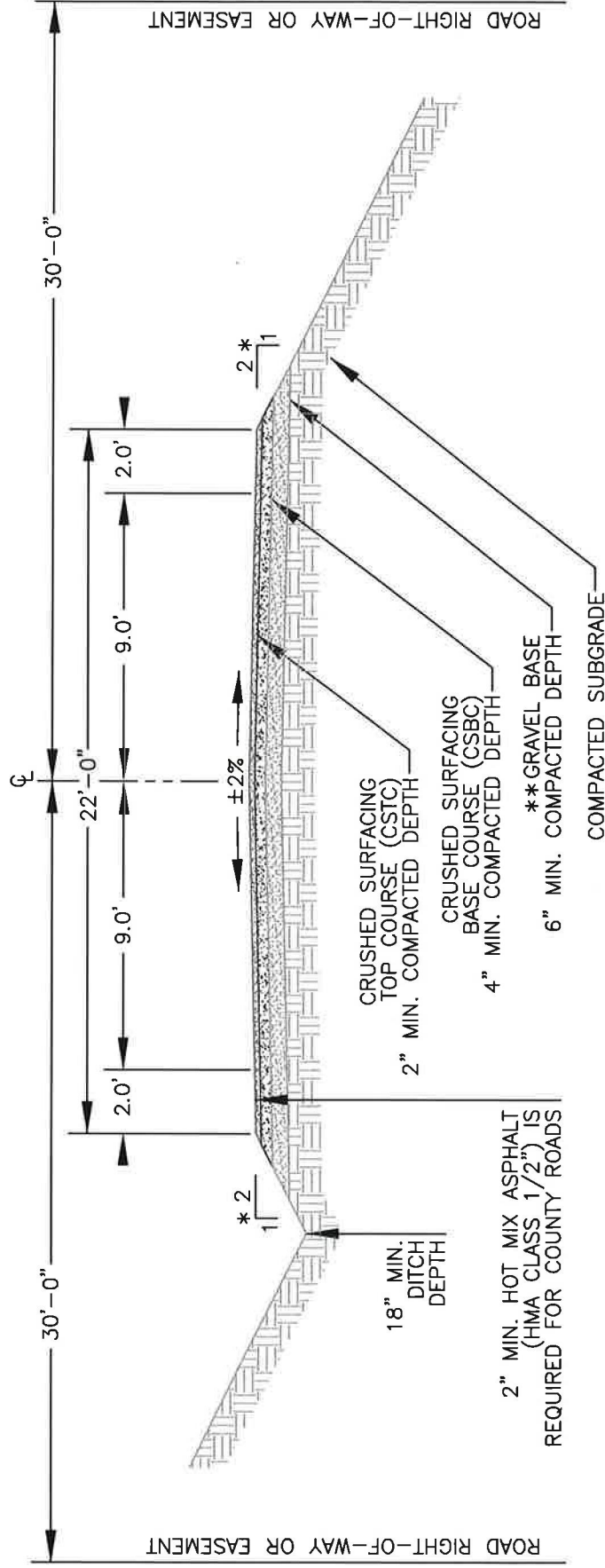
TURNAROUNDS





LOCAL ACCESS ROAD

22' ROAD SECTION
(40 MPH – UNDER 400 ADT)



ROADS SHALL BE CONSTRUCTED TO THE COUNTY'S ADOPTED STANDARDS:

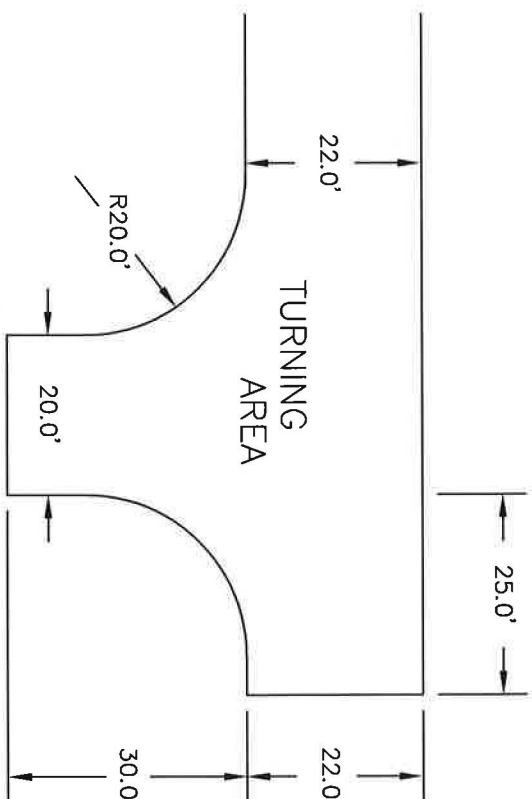
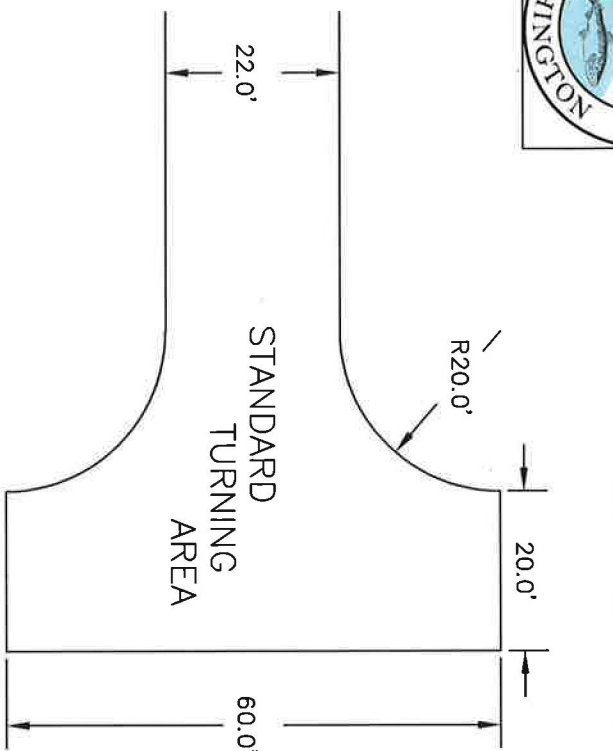
- AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (CURRENT VERSION).
- WSDOT DESIGN MANUAL AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (CURRENT VERSION).
- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE, CHAPTER 18.30.080.

NOTES:

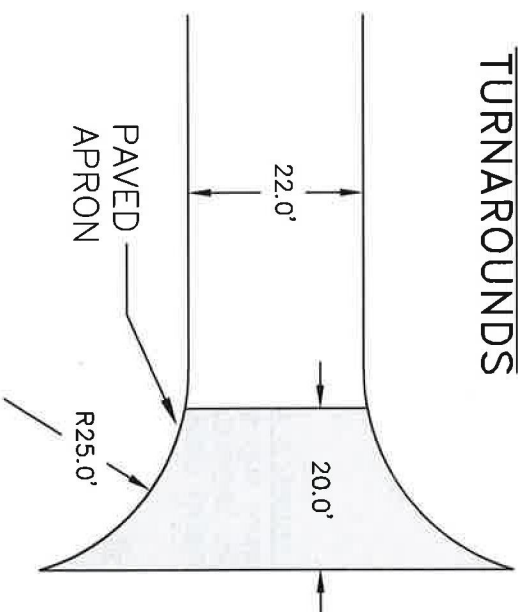
1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOIL CONDITIONS.
3. * SLOPES FLATTER THAN 2H:1V ARE DESIRABLE WHERE ACHIEVABLE.
4. **NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 12%. GREATER THAN 12% WITH PUBLIC WORKS APPROVAL; PAVED SURFACE MAY BE REQUIRED.
6. PAVED SHOULDERS ARE REQUIRED FOR ROADS TO BE DEDICATED TO JEFFERSON COUNTY.
7. MINIMUM STANDARD FOR A COUNTY ROAD.
8. CONSULT AASHTO FOR INCREASED LANE WIDTH IF OVER 40 MPH.



LOCAL ACCESS ROAD DETAILS



TURNAROUNDS



ROAD APPROACH



ROAD RIGHT-OF-WAY

30'-0"

26'-0"

10'-0"

3'-0"

3'-0"

10'-0"

3'-0"

18" MIN. DITCH DEPTH

4:1

1:1

C

2-1 1/2" MIN. HOT MIX ASPHALT (HMA CLASS 1 1/2")

CRUSHED SURFACING TOP COURSE (CSTC) 2" MIN. COMPACTED DEPTH

CRUSHED SURFACING BASE COURSE (CSBC) 4" MIN. COMPACTED DEPTH

** GRAVEL BASE 6" MIN. COMPACTED DEPTH

COMPACTED SUBGRADE

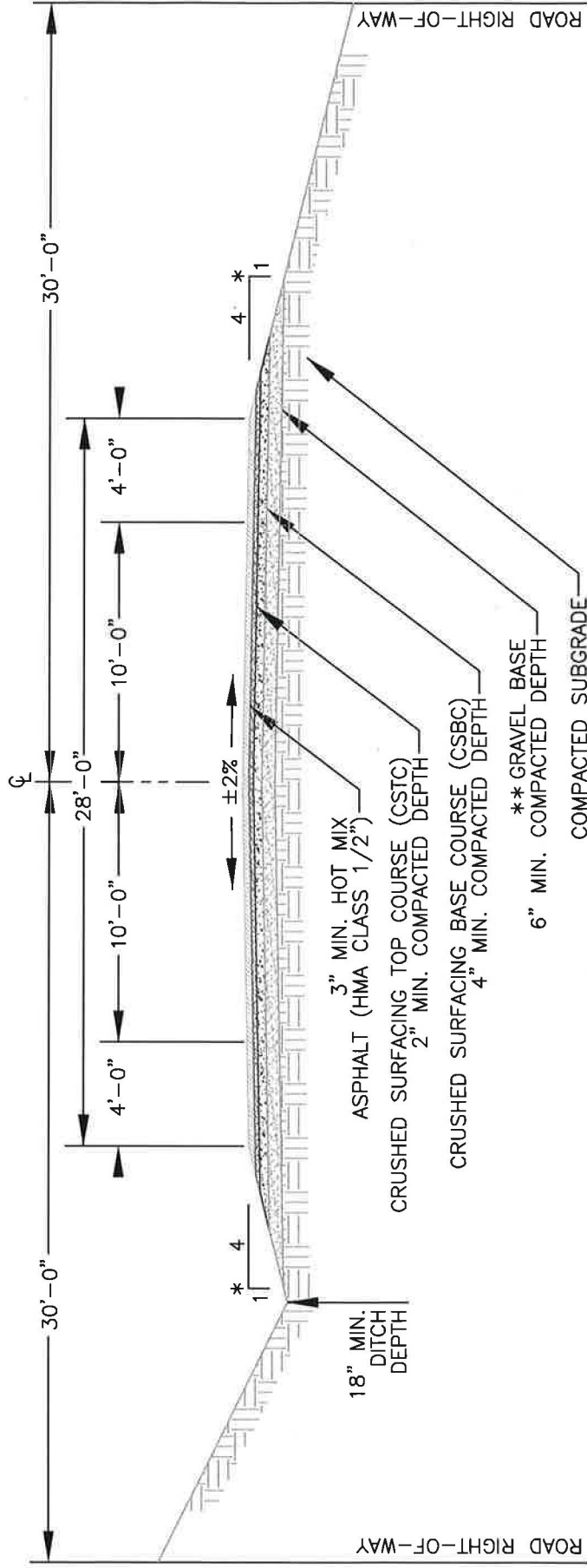
ROAD RIGHT-OF-WAY

- AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (CURRENT VERSION).
- WSDOT DESIGN MANUAL AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (CURRENT VERSION).
- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE CODE, CHAPTER 18.30.080.

1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOIL CONDITIONS.
3. * SLOPES STEEPER THAN 4H:1V SHOULD ONLY BE USED WHEN ACHIEVING A 4H:1V SLOPE IS IMPRACTICAL.
4. **NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 10%. GREATER THAN 10% WITH PUBLIC WORKS APPROVAL.
6. PAVED SHOULDERS ARE REQUIRED FOR ROADS TO BE DEDICATED TO JEFFERSON COUNTY.
7. CONSULT AASHTO FOR INCREASED LANE WIDTH IF OVER 40 MPH.



28' ROAD SECTION (40 MPH - 750 TO 1,500 ADT)



ROADS SHALL BE CONSTRUCTED TO THE COUNTY'S ADOPTED STANDARDS:

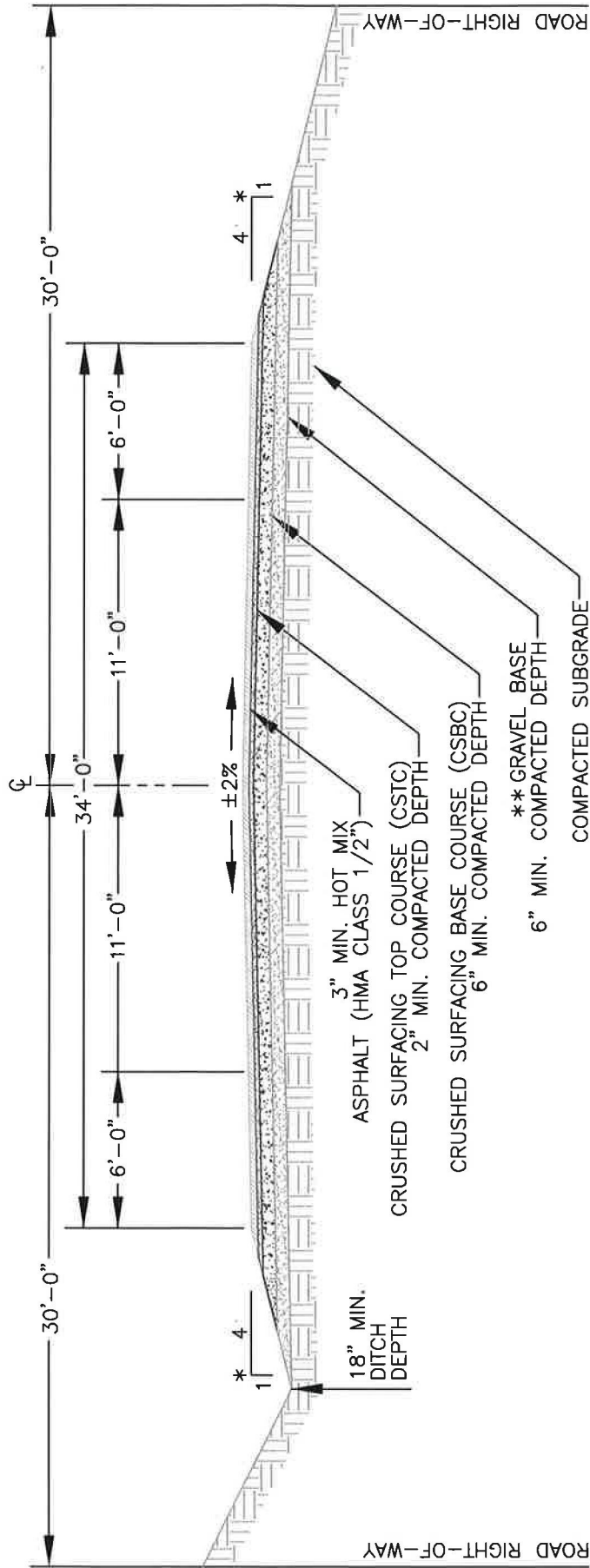
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- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE, CHAPTER 18.30.080 & 18.30.090.

NOTES:

1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOILS CONDITION.
3. * SLOPES STEEPER THAN 4H:1V SHOULD ONLY BE USED WHEN ACHIEVING A 4H:1V SLOPE IS IMPRACTICAL.
4. **NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 10%, GREATER THAN 10% WITH PUBLIC WORKS APPROVAL.
6. PAVED SHOULDERS ARE REQUIRED FOR ROADS TO BE DEDICATED TO JEFFERSON COUNTY.
7. ROADS IN DESIGNATED URBAN AREAS MAY REQUIRE PEDESTRIAN IMPROVEMENTS, INCLUDING CURBS, WIDER SHOULDERS, OR SIDEWALKS.
8. CONSULT AASHTO FOR INCREASED LANE WIDTH IF OVER 40 MPH.



34' ROAD SECTION (UP TO 50 MPH - 100 TO 200 DHV)



ROADS SHALL BE CONSTRUCTED TO THE COUNTY'S ADOPTED STANDARDS:

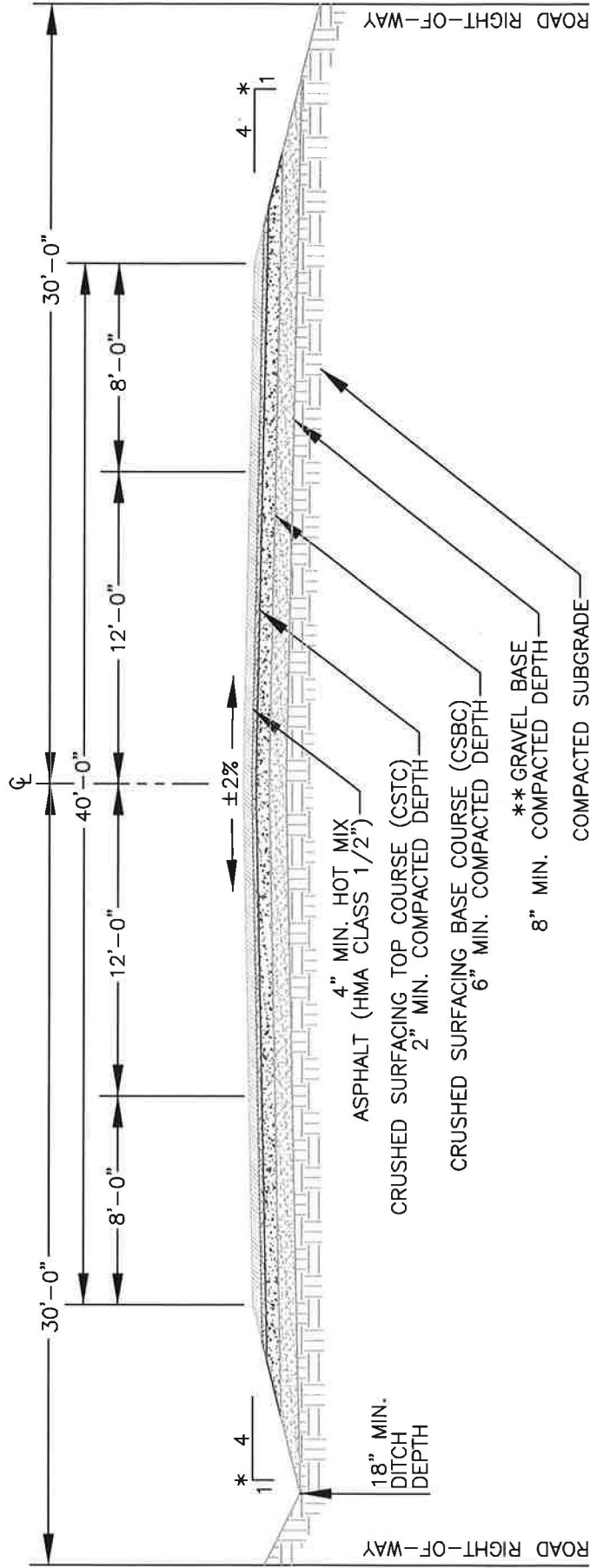
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- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE, CHAPTER 18.30.080 & 18.30.090.

NOTES:

1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOILS CONDITION.
3. * SLOPES STEEPER THAN 4H:1V SHOULD ONLY BE USED WHEN ACHIEVING A 4H:1V SLOPE IS IMPRACTICAL.
4. **NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 9%. GREATER THAN 9% WITH PUBLIC WORKS APPROVAL.
6. PAVED SHOULDERS ARE REQUIRED FOR ROADS TO BE DEDICATED TO JEFFERSON COUNTY.
7. ROADS IN DESIGNATED URBAN AREAS MAY REQUIRE PEDESTRIAN IMPROVEMENTS, INCLUDING CURBS, WIDER SHOULDERS, OR SIDEWALKS.
8. CONSULT AASHTO FOR INCREASED LANE WIDTH IF OVER 50 MPH.



40' ROAD SECTION (UP TO 60 MPH – OVER 201 DHV)

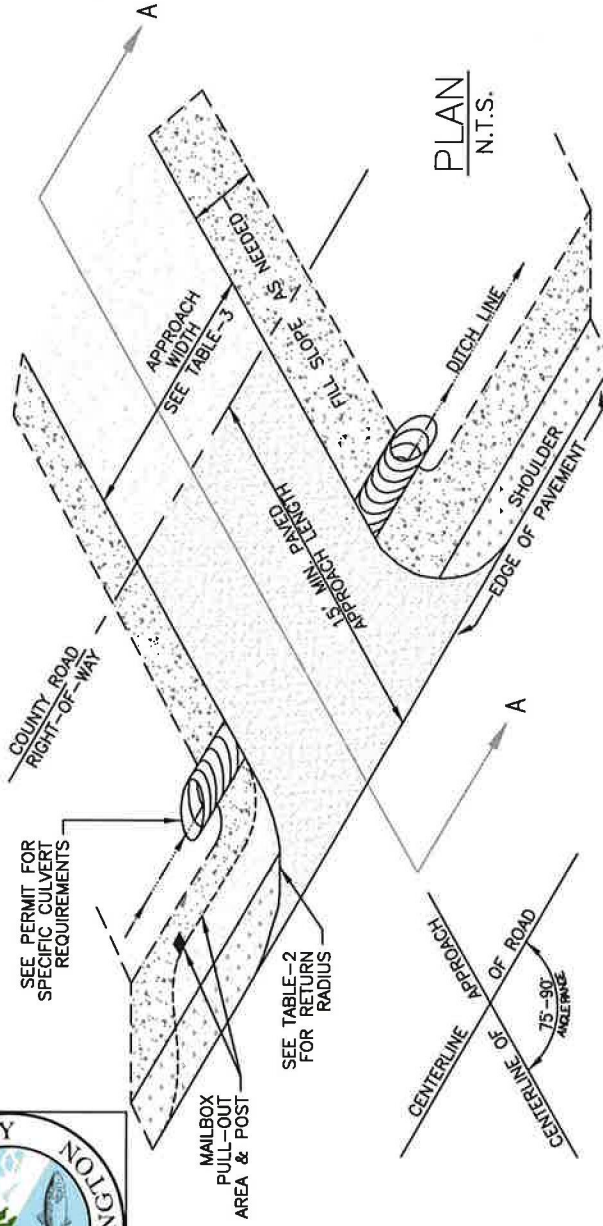


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- WSDOT DESIGN MANUAL AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (CURRENT VERSION).
- JEFFERSON COUNTY UNIFIED DEVELOPMENT CODE, CHAPTER 18.30.080 & 18.30.090.

NOTES:

1. ALL MATERIALS SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
2. CSBC & CSTC DEPTHS SHOWN ARE A MINIMUM; INCREASED DEPTH MAY BE REQUIRED DUE TO SOILS CONDITION.
3. * SLOPES STEEPER THAN 4H:1V SHOULD ONLY BE USED WHEN ACHIEVING A 4H:1V SLOPE IS IMPRACTICAL.
4. **NOT REQUIRED IF SUBGRADE MEETS SPECIFICATION FOR GRAVEL BASE, PER WSDOT STANDARD SPEC. 9-03.10.
5. MAXIMUM GRADE IS 8%. GREATER THAN 8% WITH PUBLIC WORKS APPROVAL..
6. PAVED SHOULDERS ARE REQUIRED FOR ROADS TO BE DEDICATED TO JEFFERSON COUNTY.
7. ROADS IN DESIGNATED URBAN AREAS MAY REQUIRE PEDESTRIAN IMPROVEMENTS, INCLUDING CURBS, WIDER SHOULDERS, OR SIDEWALKS.



PLAN
N.T.S.

TABLE-1

SIGHT DISTANCE REQUIREMENTS	MINIMUM DISTANCE
POSTED SPEED	
25 MPH	155 FT.
30 MPH	200 FT.
35 MPH	250 FT.
40 MPH	305 FT.
45 MPH	360 FT.
50 MPH	425 FT.
55 MPH	495 FT.

TABLE-2

RETURN RADIUS	
RESIDENTIAL APPROACH	10'
- LOCAL ACCESS RD.	10'
- MINOR COLLECTOR RD.	20'
- MAJOR COLLECTOR RD.	20'
MAJOR APPROACH	35'
- ALL CLASSIFICATIONS	35'

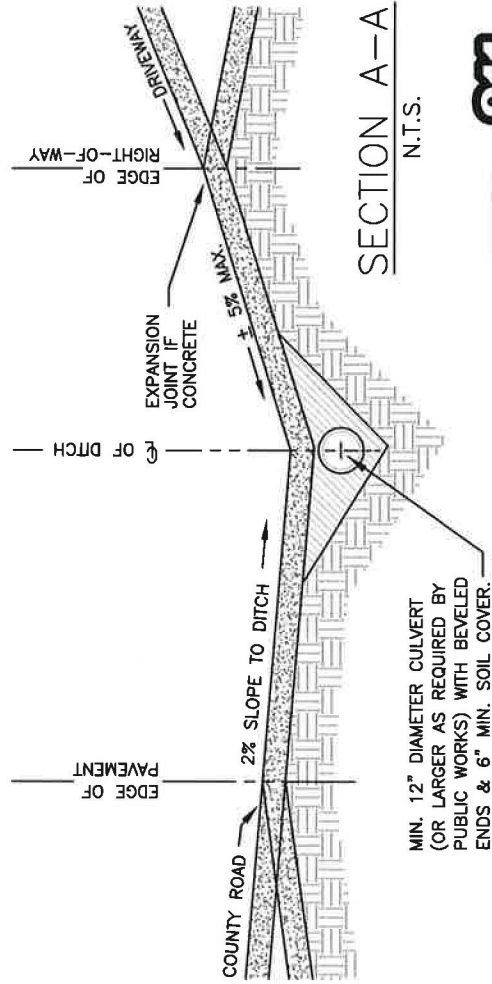
TABLE-3

APPROACH WIDTH	
RESIDENTIAL APPROACH	10' MIN. / 16' MAX.
MAJOR APPROACH	20' MIN. / 36' MAX.

NOTE: MAJOR APPROACHES INCLUDE ALL COMMERCIAL, INDUSTRIAL, AND/OR PRIVATE ROADS OR SHARED DRIVEWAYS, SERVING MULTIPLE PARCELS.

NOTES:

1. CONDITIONS PROVIDED IN THE ROAD APPROACH PERMIT WILL GOVERN INSTALLATION.
2. THE FOLLOWING ROAD APPROACHES ARE REQUIRED TO BE PAVED:
 - ALL ROAD APPROACHES CONNECTING TO A COUNTY ROAD WITH AN ADT OF ≥ 1000 .
 - COMMERCIAL (& INDUSTRIAL) ROAD APPROACHES WITH A PROPOSED ADT OF ≥ 30 .
 - COUNTY ROAD APPROACHES FOR NEW PRIVATE ROADS AND/OR SHARED DRIVEWAYS SERVING MULTIPLE PARCELS.
 - COUNTY ROAD APPROACHES FOR SHORT PLAT AND LONG PLAT SUBDIVISIONS.
3. PAVING IS NOT REQUIRED FOR ROAD APPROACHES CONNECTING TO GRAVEL ROADS.
4. PAVING REQUIREMENT: 2" MIN. (COMPACTED DEPTH) HOT MIX ASPHALT (HMA) OVER 4" MIN. (COMPACTED DEPTH) CRUSHED SURFACING, OR 6" CLASS 3000 CONCRETE.
5. GRAVEL REQUIREMENT: 3" MIN. CRUSHED SURFACING.
6. APPROACH SHALL BE AT 90 DEGREES TO COUNTY ROAD CENTERLINE. ANGLE MAY VARY FROM 90 DEGREES TO 75 DEGREES WITH PUBLIC WORKS APPROVAL.
7. CULVERT PIPE MUST BE 12"Ø MIN. CORRUGATED METAL OR DUAL WALL CORRUGATED HDPE, WITH BEVELED ENDS.
8. CULVERT LENGTH TO BE DETERMINED BY APPROACH WIDTH, RETURN RADIUS, AND DEPTH OF DITCH. CULVERT SHALL NOT EXCEED THE LENGTH NECESSARY TO EXTEND BETWEEN TOE OF FILL AT CENTERLINE OF THE DITCH ON EACH SIDE OF THE ROAD APPROACH.
9. THE GRADE OF THE APPROACH SHALL FOLLOW THE CROWN OF THE COUNTY ROAD SUCH THAT NO SURFACE STORMWATER IS DIRECTED ONTO THE COUNTY ROAD.
10. REQUIRED MINIMUM SIGHT DISTANCE SHALL BE PER TABLE-1. MAINTENANCE OF THE SIGHT TRIANGLE IS THE RESPONSIBILITY OF THE PROPERTY OWNER. SEE JEFFERSON COUNTY PUBLIC WORKS WEBSITE FOR MAINTENANCE/REPAIR INFORMATION.
11. SEE JEFFERSON COUNTY PUBLIC WORKS WEBSITE FOR MAILBOX STANDARDS AND INSTALLATION REQUIREMENTS.



SECTION A-A
N.T.S.



Know what's below.
Call before you dig.