

DESIGN STANDARDS/PRACTICE EXCEPTION REQUEST SUMMARY

Title: Hwy 628:04, Intersection Improvement, Approach Sideslopes

Memorandum (or Approval) Date: June 13, 2012 Design Exception Request Date: June 8, 2012

Region: North Central Approval Status: Approved

Project Location							
Highway	Control Section	At km	From km	To km	Existing AADT		
628	04		1.16	1.80	14920		

Project Type (Mark all that apply with an X)						
Functional Planning:	New Construction:	X	Reconstruction:	Paving/Surfacing:		
Bridge:	Operations:		Geotechnical:	Environmental:		
Other:	Detailed Design	Χ				

Summary

The following design exception request is for the following:

Proposed intersection improvement at Highway 628:04/Range Rd. 233. The design exception request is for a V-ditch in the SW quadrant resulting in a 4:1 sideslope approach in the SW quadrant of the intersection.

Based on the ATHGDG, Chapter G, 3R/\$R Guidelines, Table G.6.4, Suggested Approach Sideslopes for Highways Posted Speed ≥ 100 km/h, AADT > 3000 and fill height < 4m, a approach slope of 5:1 is acceptable on existing approaches for projects with a major grading component. Desirable slope on new approaches are 7:1.

Rationale for Approval/Rejection

- The design speed on Highway 628 is 80 km/h and the posted speed = 70 km/h.
- Traffic signals will be installed along with advance warning flashers in both directions of Hwy 628.
- Drainage flows away from the SW corner of the intersection.
- The proposed intersection is an interim stage improvement until Highway 628 is twinned in the future.

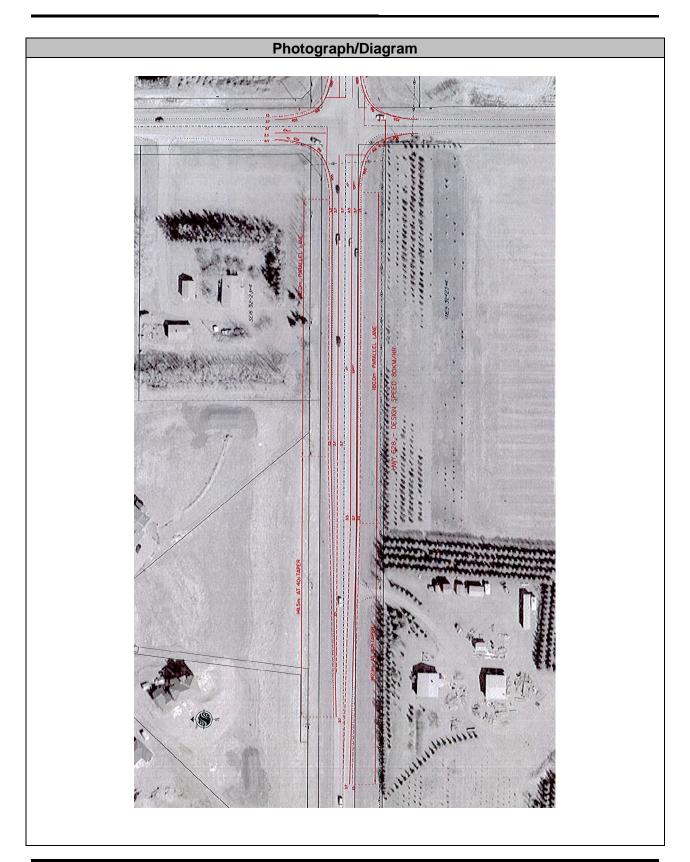
Additional Mitigation Required				
No mitigation is required.				

Key Words

3R/\$R Guidelines, intersections, approach sideslopes, desirable slopes on new approaches



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