

Calgary



Glenmore Trail East Interchanges Functional Planning Study

Appendix A – Design Check Exhibits

Prepared By:

PARSONS

ISL Engineering
and Land Services

X:\18\Apr_18_18\ETC\062534 - Glenmore Trail East\000 Project Data\700 Drawings\50 Working Drawings\01 Exhibits\Exhibit 01 - Exhibit Drawing Index.dwg

EXHIBIT NUMBER	EXHIBIT NAME
01 - A1	EXHIBIT DRAWING INDEX
02 - WD1	WEAVE DISTANCE DIAGRAM
02 - WD2	WEAVE DISTANCE DIAGRAM
03 - TT1	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - MODIFIED WB36
03 - TT2	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - MODIFIED WB36
03 - TT3	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - MODIFIED WB36
03 - TT4	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - HIGH LOAD
03 - TT5	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - HIGH LOAD
03 - TT6	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - HIGH LOAD
03 - TT7	DESIGN VEHICLE TURNING SWEEP PATH - 100 STREET - HIGH LOAD
03 - TT8	DESIGN VEHICLE TURNING SWEEP PATH - 116 STREET - MODIFIED WB36
03 - TT9	DESIGN VEHICLE TURNING SWEEP PATH - 116 STREET - MODIFIED WB36
03 - TT10	DESIGN VEHICLE TURNING SWEEP PATH - 116 STREET - MODIFIED WB36
03 - TT11	DESIGN VEHICLE TURNING SWEEP PATH - RAINBOW ROAD - MODIFIED WB36
03 - TT12	DESIGN VEHICLE TURNING SWEEP PATH - RAINBOW ROAD - MODIFIED WB36
03 - TT13	DESIGN VEHICLE TURNING SWEEP PATH - RAINBOW ROAD - MODIFIED WB36
04 - HL1	HIGH LOAD PLAN AND PROFILE - 100 STREET
04 - HL2	HIGH LOAD PLAN AND PROFILE - 116 STREET
04 - HL3	HIGH LOAD PLAN AND PROFILE - RAINBOW ROAD

NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT

PARSONS

ISL Engineering
and Land Services

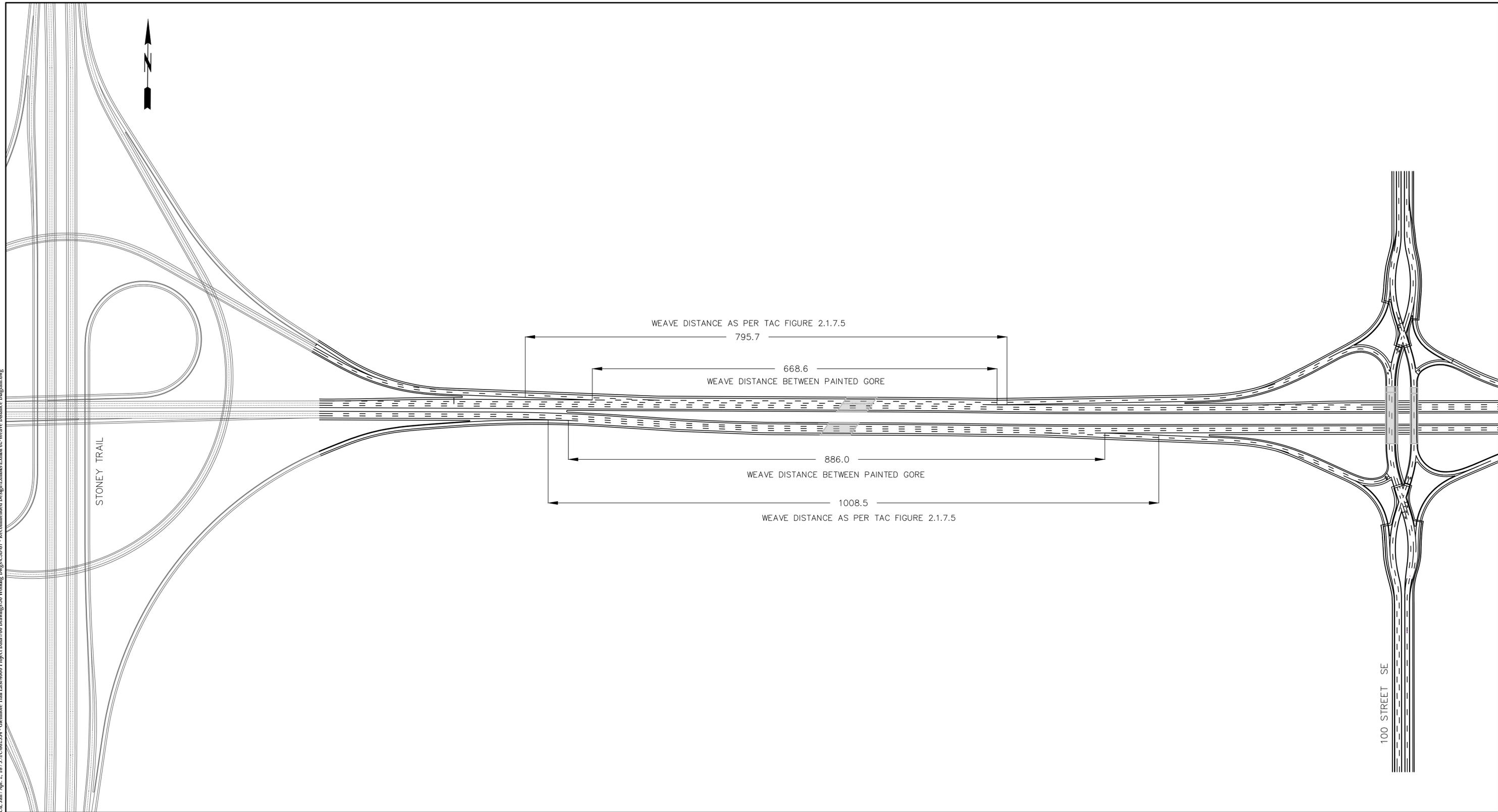


**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

EXHIBIT DRAWING INDEX

EXHIBIT 01 - A1

C:_Jan_Apr_2_18\ATC\0234 - Glenmore Trail East\000 Project Data\700 Drawings\0 Drawings\0 Working Drawings\02 Weave Distance Diagram.dwg



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services

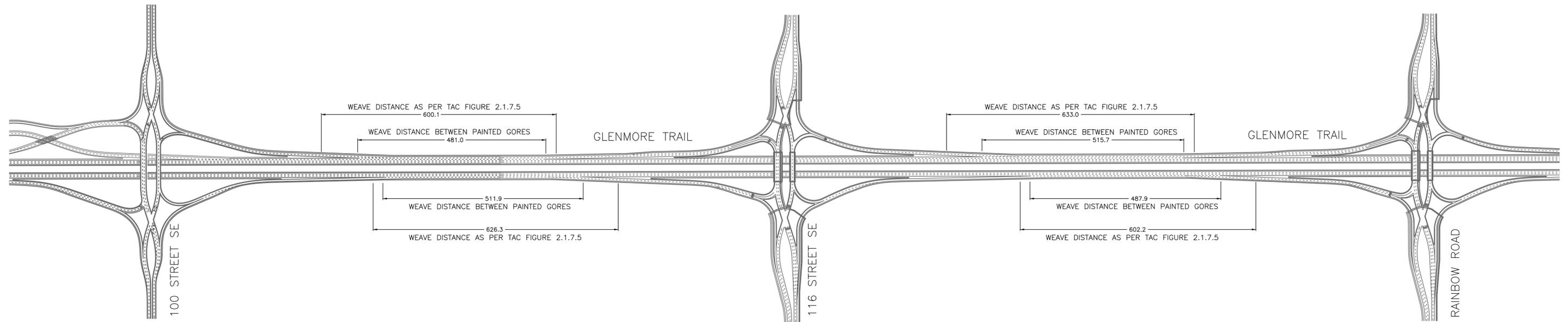


**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

**STONEY TRAIL TO WEST OF 100 ST SE (GARDEN ROAD)
WEAVE DISTANCE DIAGRAM**

EXHIBIT 02 - WD1

Adam Keebler / Apr. 19, 18 / M:\25100\25134_GlenmoreTr_116St_CADD\21_Models\21_0_CSD\Alignments\25134_PA_CONTRICH_DDL_WEST_SHEET.dwg

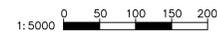


PARSONS

ISL Engineering
and Land Services



NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT



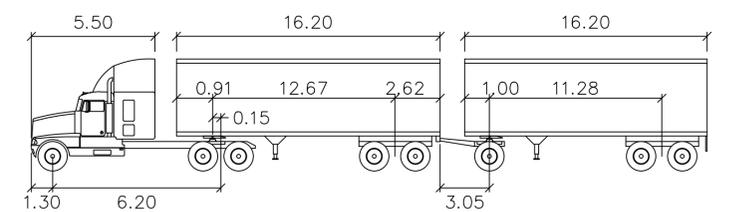
FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE RD 283)
100 ST SE (GARDEN ROAD) TO EAST
OF RAINBOW ROAD (RANGE ROAD 283)
WEAVE DISTANCE DIAGRAM

EXHIBIT 01 - WD 2
April 2018



100 ST SE

GLENMORE TRAIL



Modified WB36	metres		
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		

C:_Jan_Apr_2_18\JTC\602334 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawings\CAD\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services



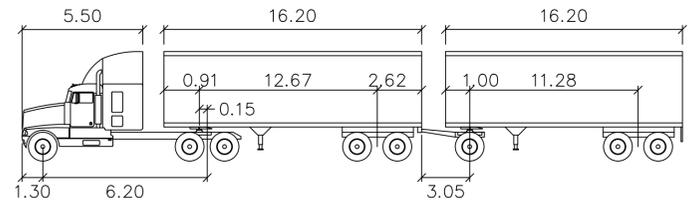
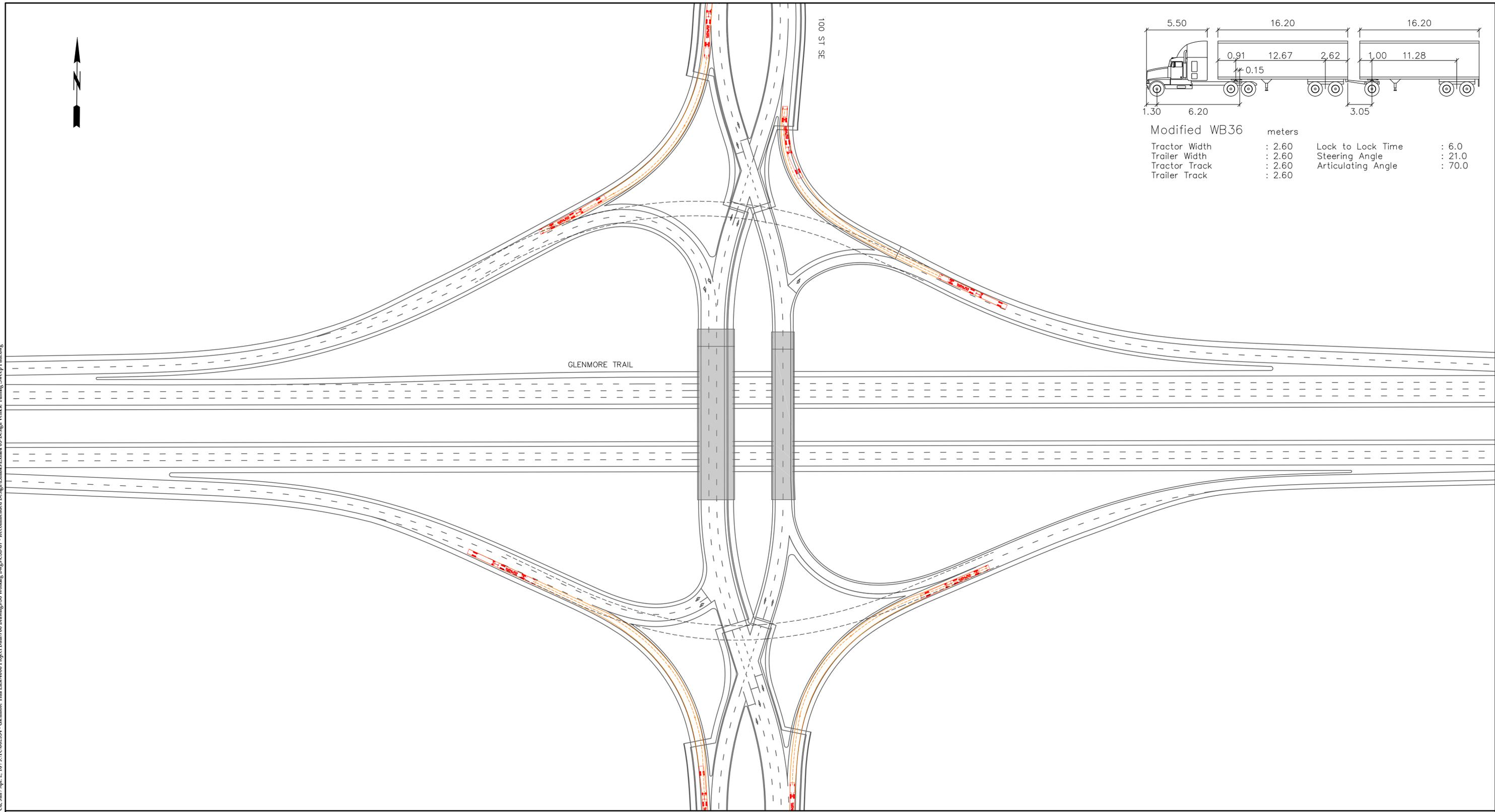
**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB36

EXHIBIT 03 - TT1

C:_Jan_Apr_2_18\JATC602334 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawgs\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg



Modified WB36		meters	
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		

GLENMORE TRAIL

100 ST SE

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services



**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB36

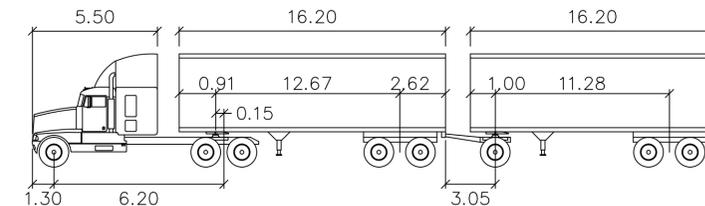
EXHIBIT 03 - TT2

C:_Jan_Apr_2_18\ATC602334 - Glenmore Trail East\000 Project Data\700 Drawings\50 Working Docs\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg

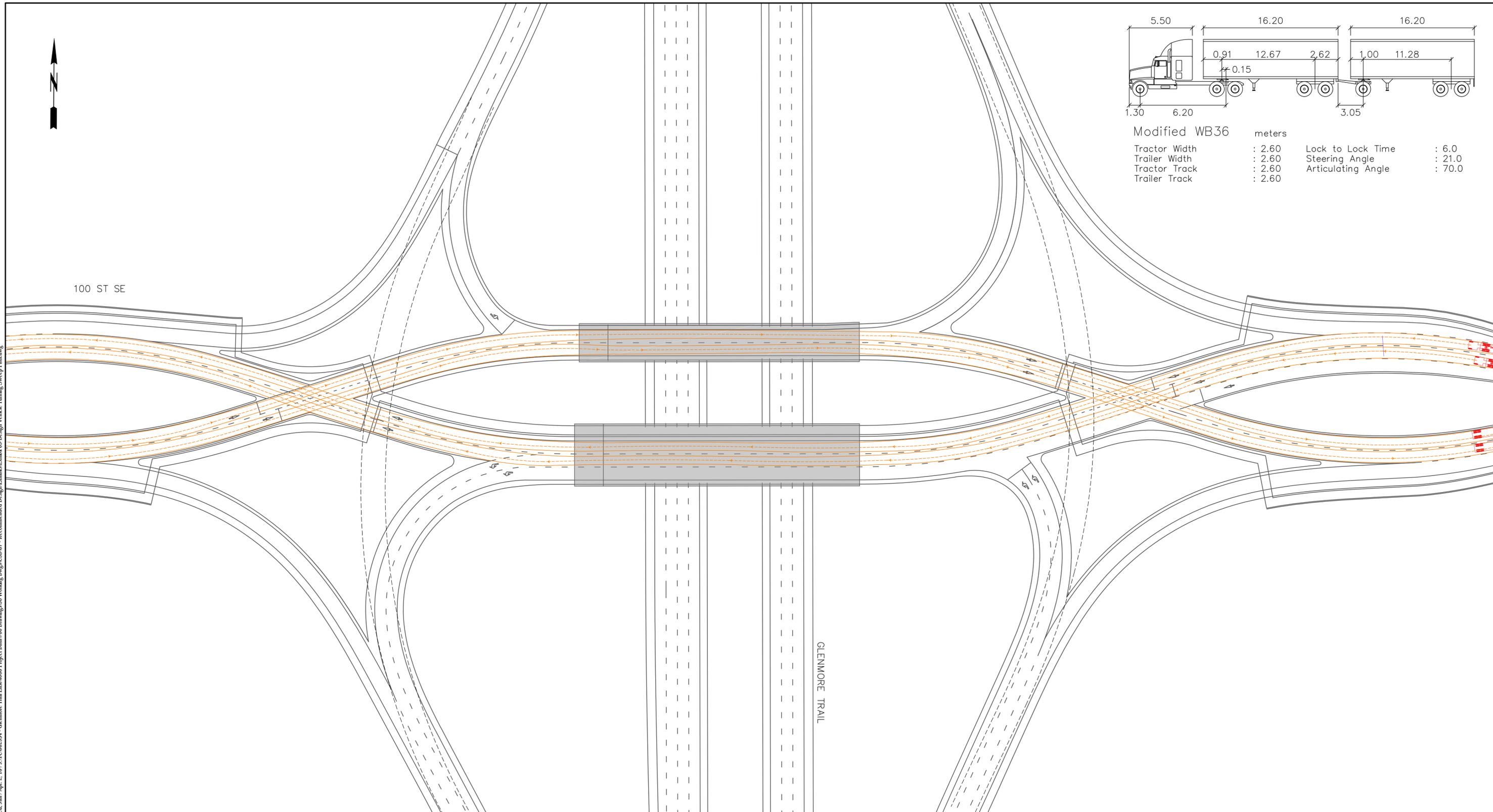


100 ST SE

GLENMORE TRAIL



Modified WB36	meters		
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services



**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

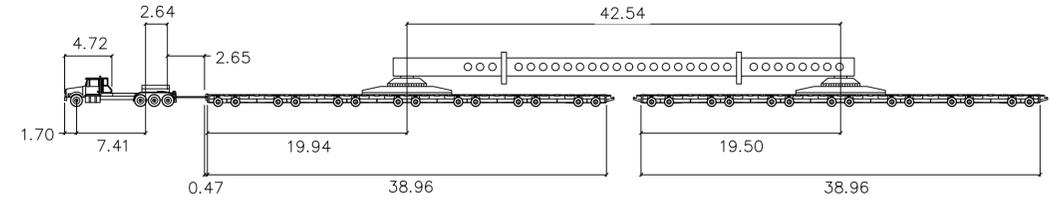
100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB36

EXHIBIT 03 - TT3



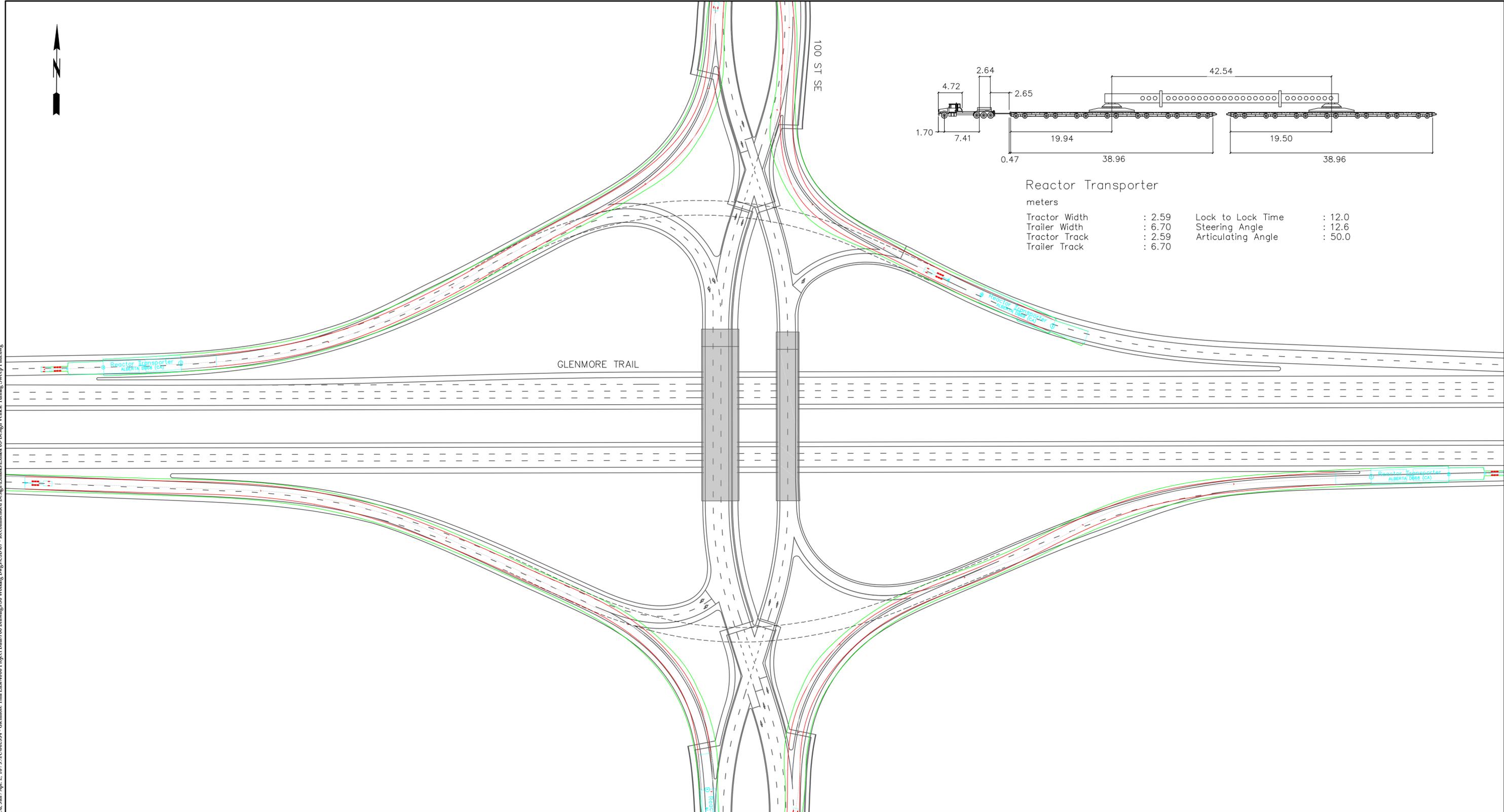
100 ST SE



Reactor Transporter

meters			
Tractor Width	: 2.59	Lock to Lock Time	: 12.0
Trailer Width	: 6.70	Steering Angle	: 12.6
Tractor Track	: 2.59	Articulating Angle	: 50.0
Trailer Track	: 6.70		

C:_Jan_2_18\JITC\602534 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawings\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services



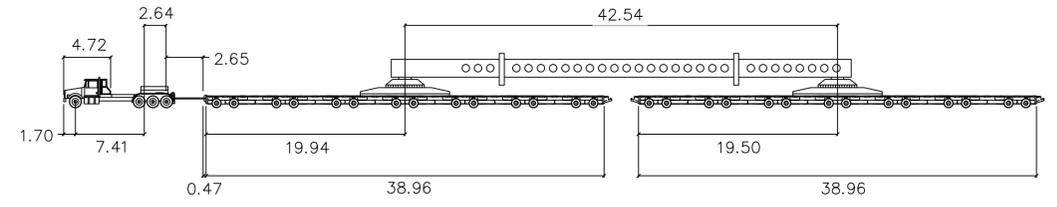
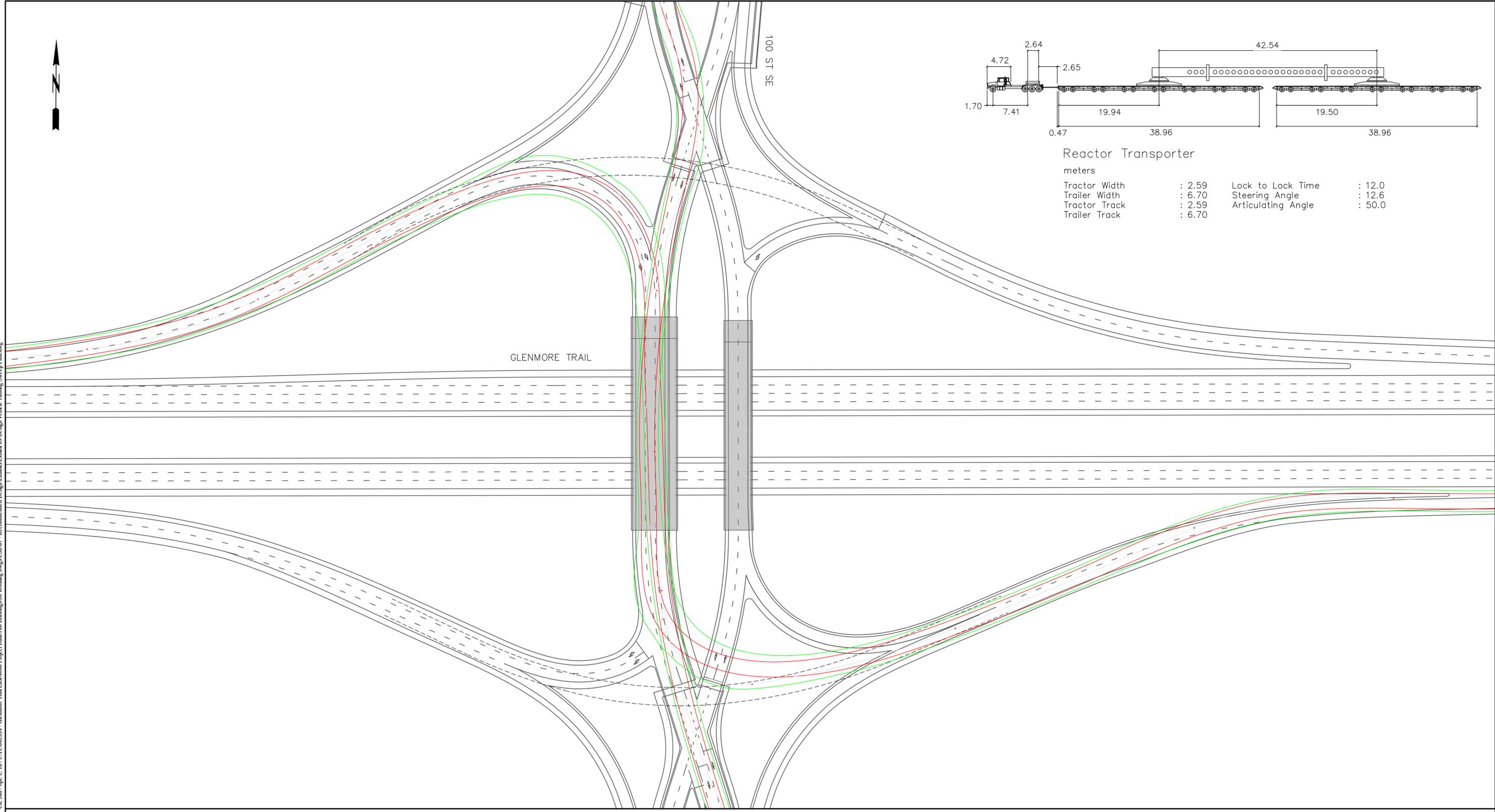
**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - HIGH LOAD

EXHIBIT 03 - TT4

C:_Jan_Apr_2_18\JITC\602534 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawgs\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg



Reactor Transporter

meters

Tractor Width	: 2.59	Lock to Lock Time	: 12.0
Trailer Width	: 6.70	Steering Angle	: 12.6
Tractor Track	: 2.59	Articulating Angle	: 50.0
Trailer Track	: 6.70		

GLENMORE TRAIL

100 ST SE

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services

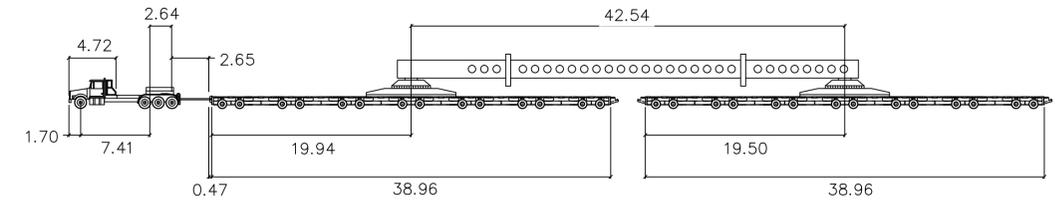


**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - HIGH LOAD

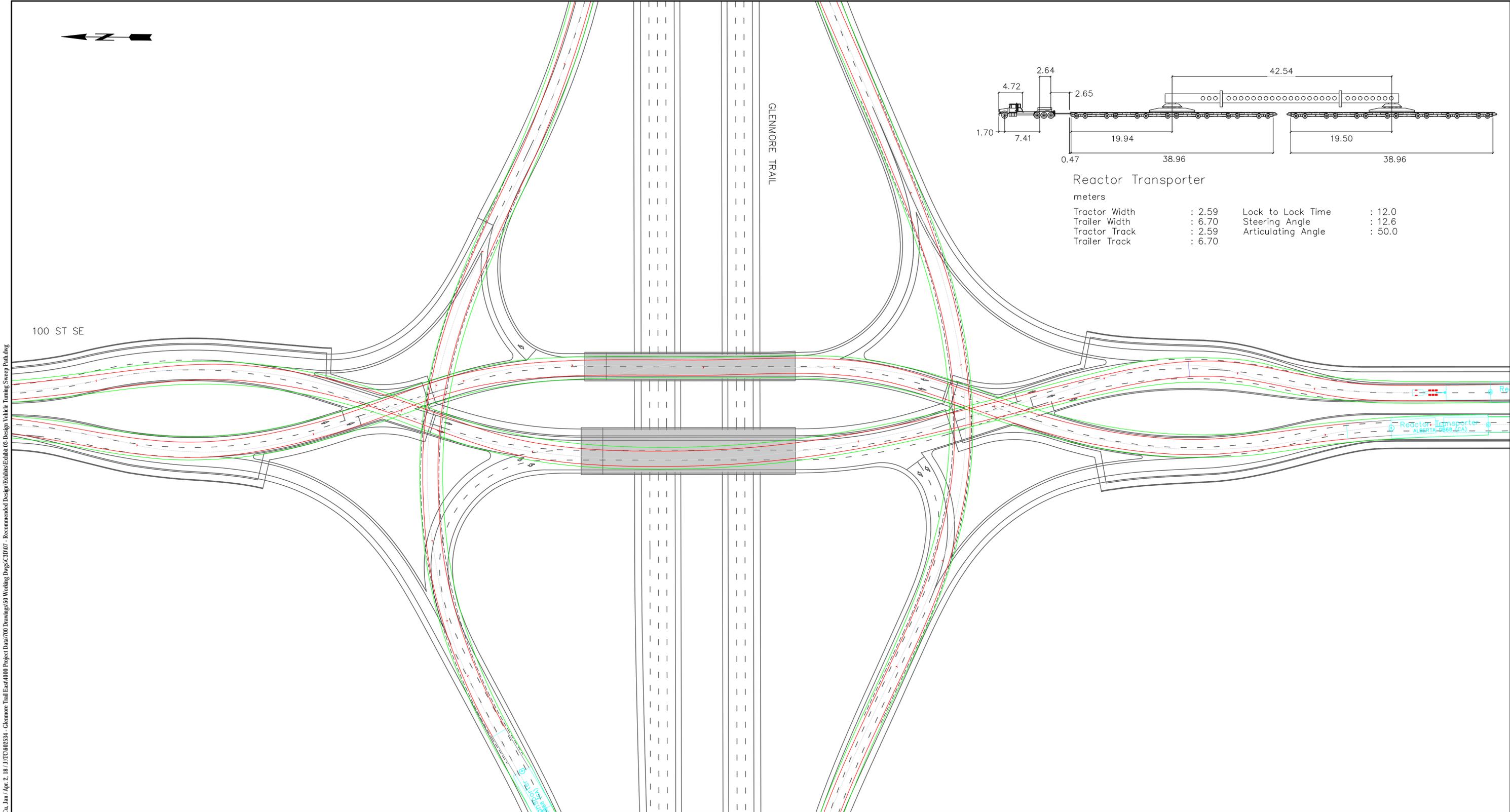
EXHIBIT 03 - TT5



Reactor Transporter

meters

Tractor Width	: 2.59	Lock to Lock Time	: 12.0
Trailer Width	: 6.70	Steering Angle	: 12.6
Tractor Track	: 2.59	Articulating Angle	: 50.0
Trailer Track	: 6.70		



C:_Jan_Apr_2_18\JTC\602534 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawings\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg

100 ST SE

GLENMORE TRAIL

NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT

PARSONS

ISL Engineering
and Land Services



**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

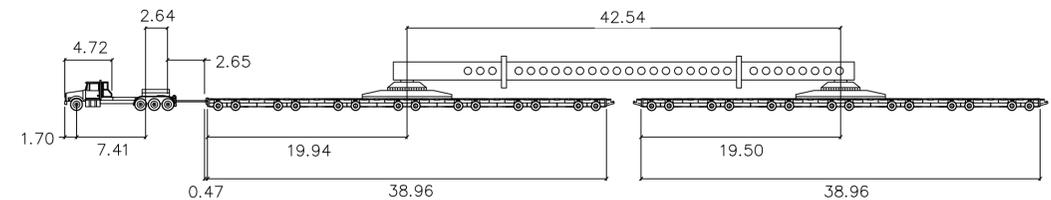
100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - HIGH LOAD

EXHIBIT 03 - TT6



100 ST SE



Reactor Transporter

meters

Tractor Width	: 2.59	Lock to Lock Time	: 12.0
Trailer Width	: 6.70	Steering Angle	: 12.6
Tractor Track	: 2.59	Articulating Angle	: 50.0
Trailer Track	: 6.70		

C:_Jan_Apr_2_18\JITC602334 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawings\C3D\07 - Recommended Design\Exhibits\Exhibit 03-Design Vehicle Turning Sweep Path.dwg

GLENMORE TRAIL

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

PARSONS

ISL Engineering and Land Services

Calgary

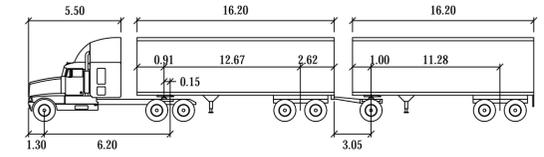


**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

100 STREET SE (GARDEN ROAD) INTERCHANGE

DESIGN VEHICLE TURNING SWEEP PATH - HIGH LOAD

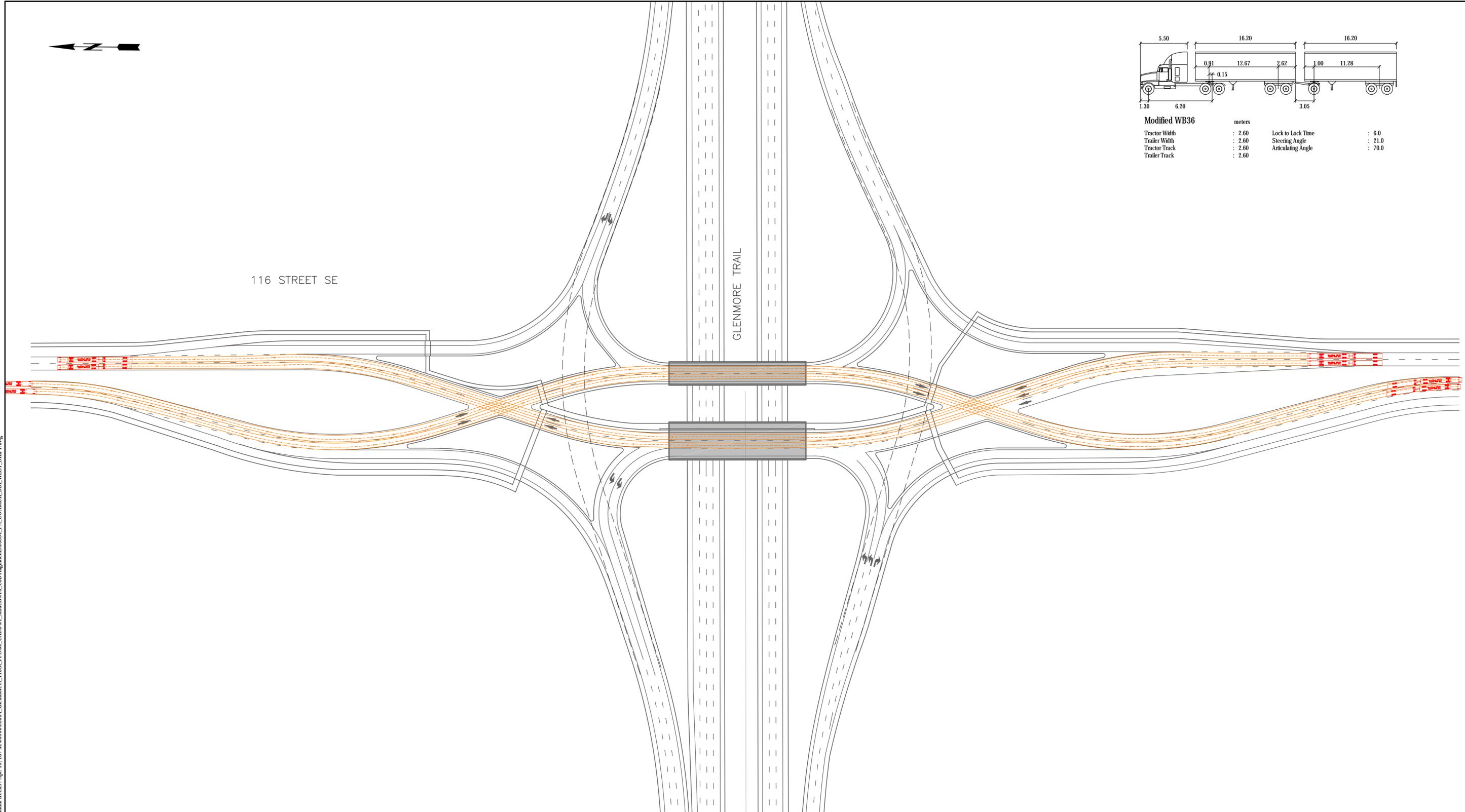
EXHIBIT 03 - TT7



Modified WB36		meters	
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		

116 STREET SE

GLENMORE TRAIL



Adam Keebler/Apr. 19, 18 / M:\265100\26534_GlenmoreTr_116St_PPS02_CADD\21_Models\21_0_CSD\alignments\26534_PA_CONRICH_DD1_WEST_SHFIT.dwg

PARSONS

ISL Engineering
and Land Services



NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT

**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

**116 STREET SE (CONRICH ROAD) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB36**

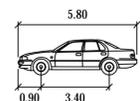
NOT TO SCALE

Adam Keebler / Apr. 19, 18 / M:\265100\26534_GlenmoreTr_116St_CADD\21_Models\21_0_C3D\Alignments\26534_PA_CONRICH_DD1_WEST_SHEET.dwg



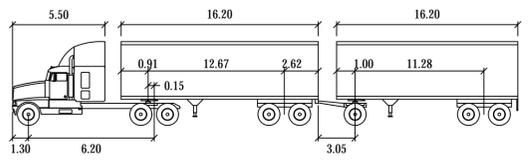
116 STREET SE

GLENMORE TRAIL



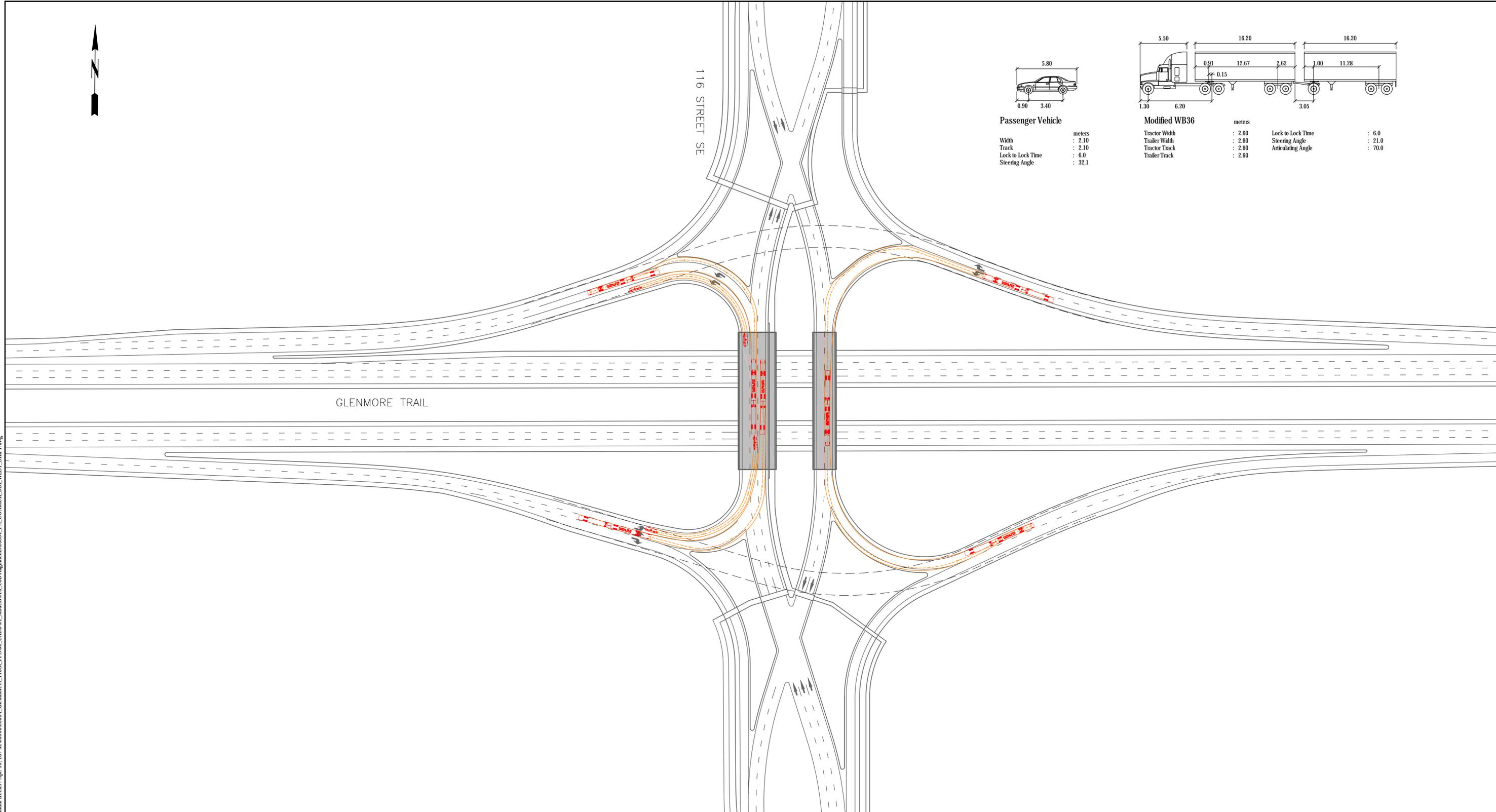
Passenger Vehicle

Width	: 5.80
Track	: 0.90
Lock to Lock Time	: 3.40
Steering Angle	: 32.1



Modified WB36

Tractor Width	: 5.50	Lock to Lock Time	: 6.0
Trailer Width	: 16.20	Steering Angle	: 21.0
Tractor Track	: 1.30	Articulating Angle	: 70.0
Trailer Track	: 3.05		



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

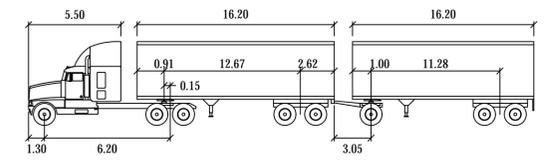
PARSONS

ISL Engineering and Land Services

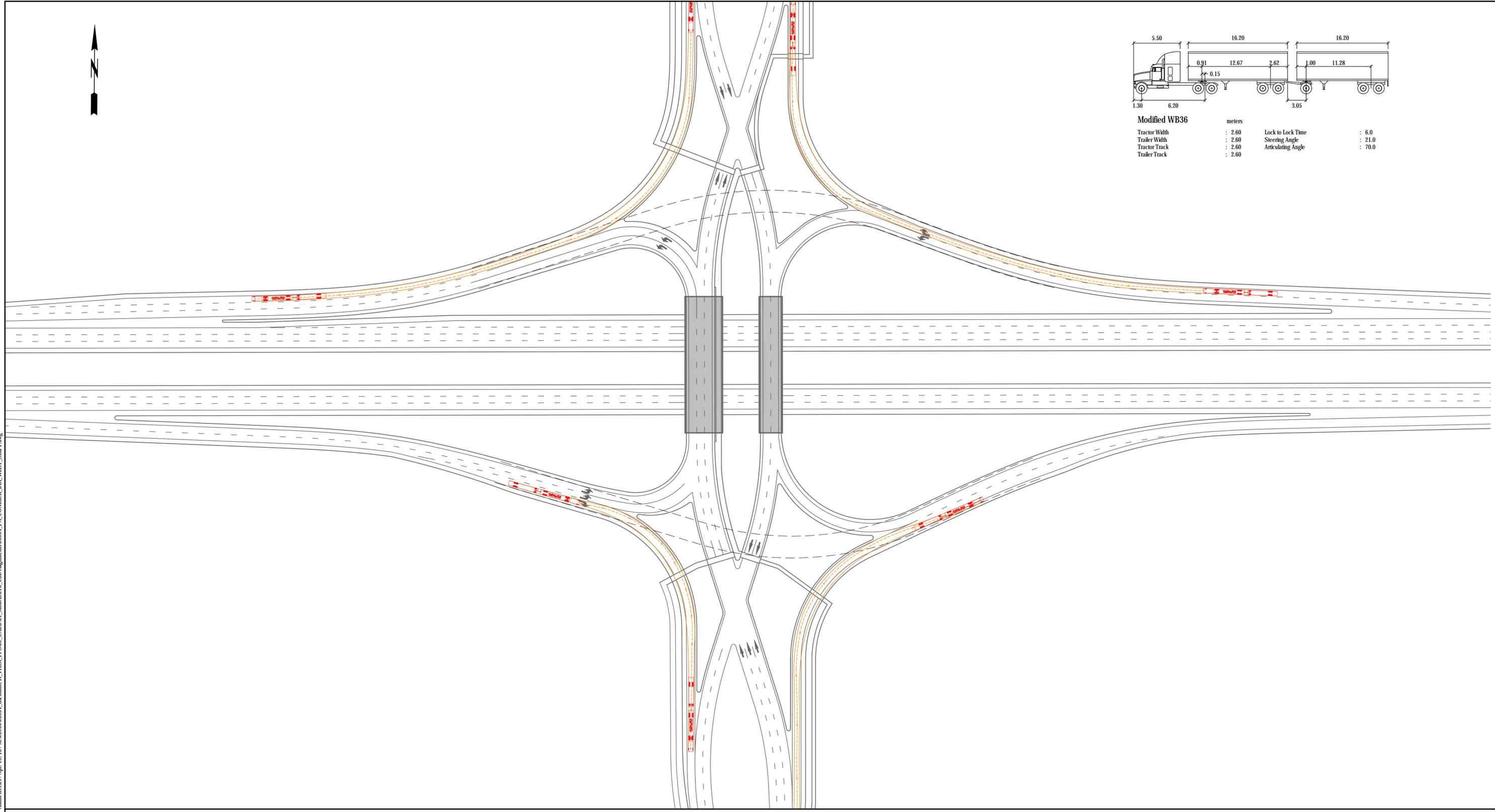


FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
116 STREET SE (CONRICH ROAD) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB 36

NOT TO SCALE



Modified WB36		meters	
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		



Adam Keebler / Apr. 19, 18 / M:\265100\26534_GhemoreTT_116St_CADD\21_Models\21_0_CSD\Alignments\26534_PA_CONRICH_DD1_WEST_SHEET.dwg

PARSONS

ISL Engineering
and Land Services

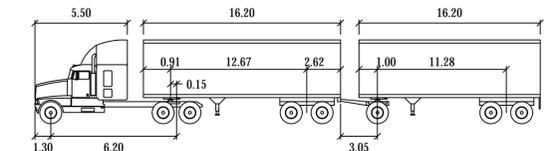


NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT

NOT TO SCALE

FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
116 STREET SE (CONRICH ROAD) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB 36

EXHIBIT 03 - TT 10
APRIL 2018



Modified WB36		Lock to Lock Time	: 6.0
Tractor Width	: 2.60	Steering Angle	: 21.0
Trailer Width	: 2.60	Articulating Angle	: 70.0
Tractor Track	: 2.80		
Trailer Track	: 2.60		

116 STREET SE

GLENMORE TRAIL

Adam Keebler / Apr. 19, 18 / M:\265100\26534_GlenmoreTT_116St_CADD\21_Models\21_0_C3D\Alignments\26534_PA_CONTRICH_DD1_WEST_SHEET.dwg



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
RAINBOW ROAD (RANGE ROAD 283) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB 36

NOT TO SCALE

Adam Keebler / Apr. 19, 18 / M:\265100\26534_GlenmoreTT_11651_PPS02_CADD\21_Models\21_0_C3D\Alignments\26534_PA_CONTRICH_DDL_WEST_SHEET.dwg



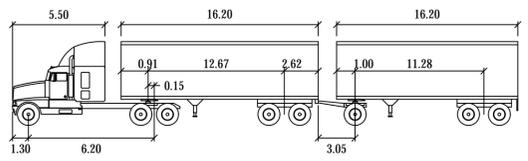
RAINBOW ROAD

GLENMORE TRAIL



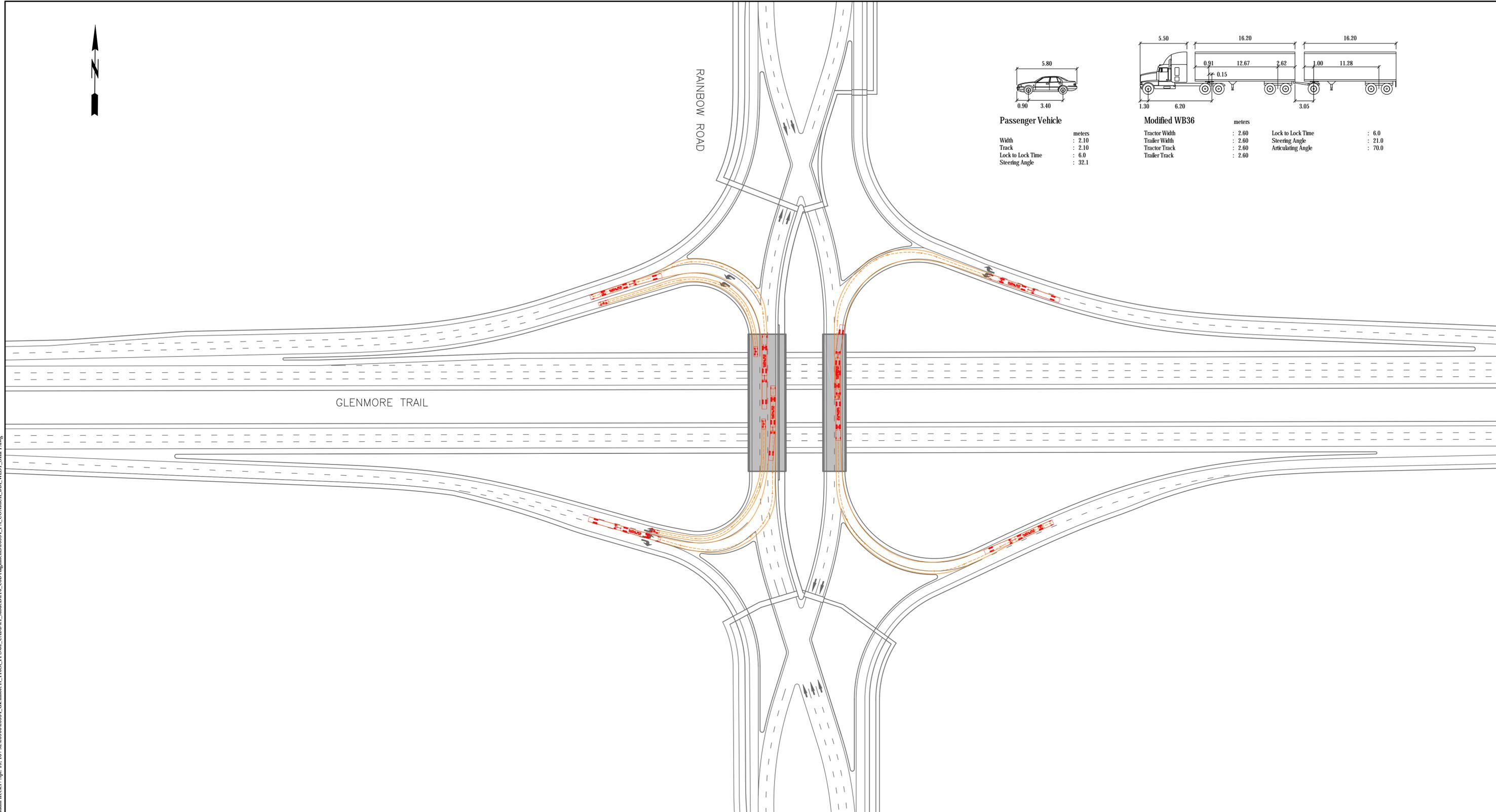
Passenger Vehicle

	meters	
Width	: 2.10	
Track	: 2.10	
Lock to Lock Time	: 6.0	
Steering Angle	: 32.1	



Modified WB36

	meters		
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		



PARSONS

ISL Engineering and Land Services



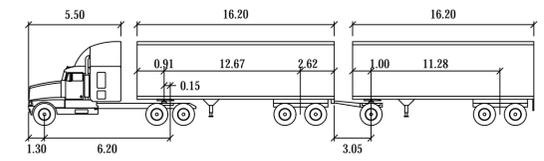
NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

NOT TO SCALE

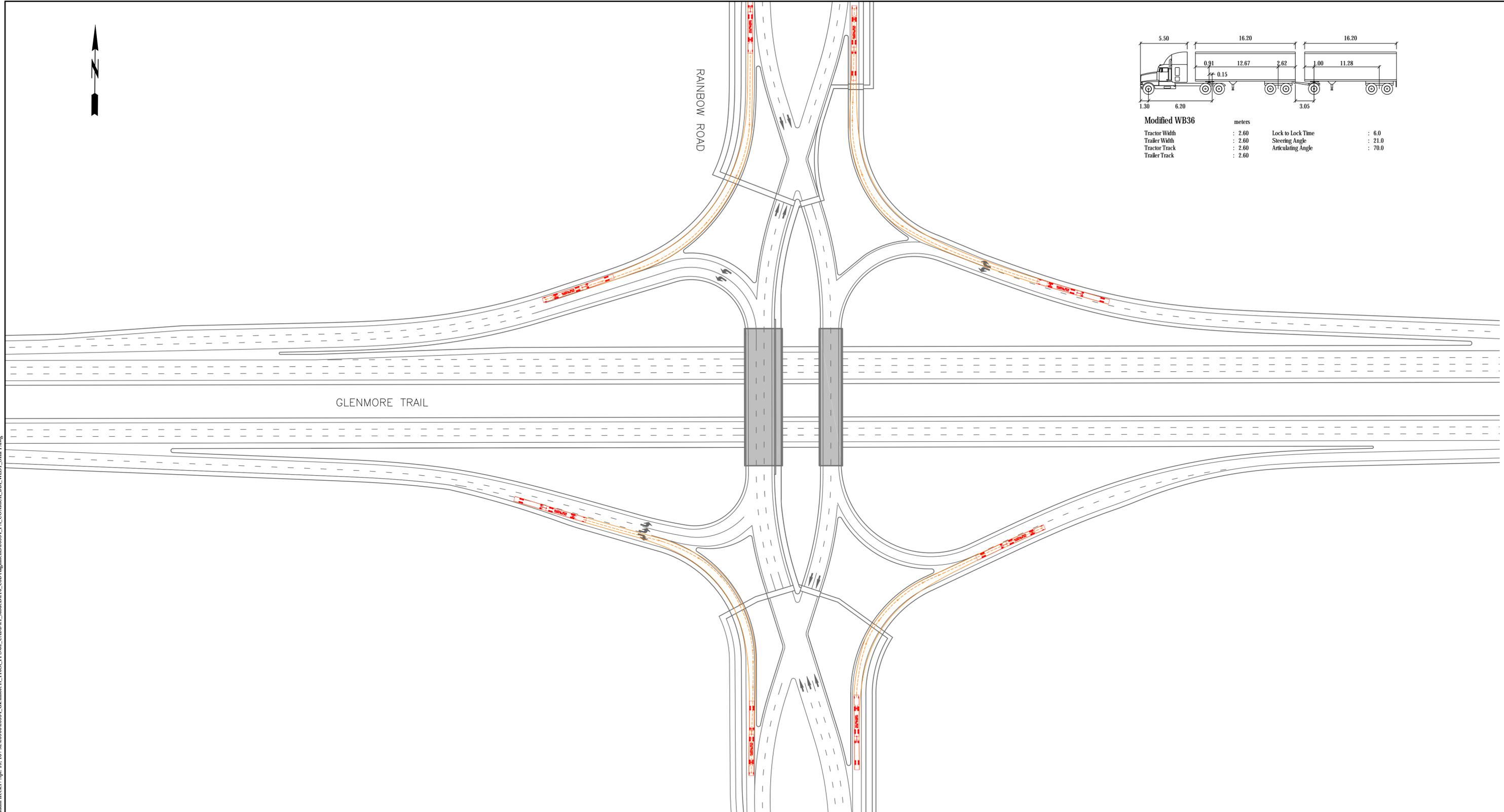
FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
RAINBOW ROAD (RANGE ROAD 283) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB 36

EXHIBIT 03 - TT 12
APRIL 2018

Adam Keebler / Apr. 19, 18 / M:\265100\26534_GlenmoreTr_11651_PPS02_CADD\21_Models\21_0_CSD\alignments\26534_PA_CONTRCH_DDL_WEST_SHEET.dwg



Modified WB36		meters	
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 21.0
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		



PARSONS

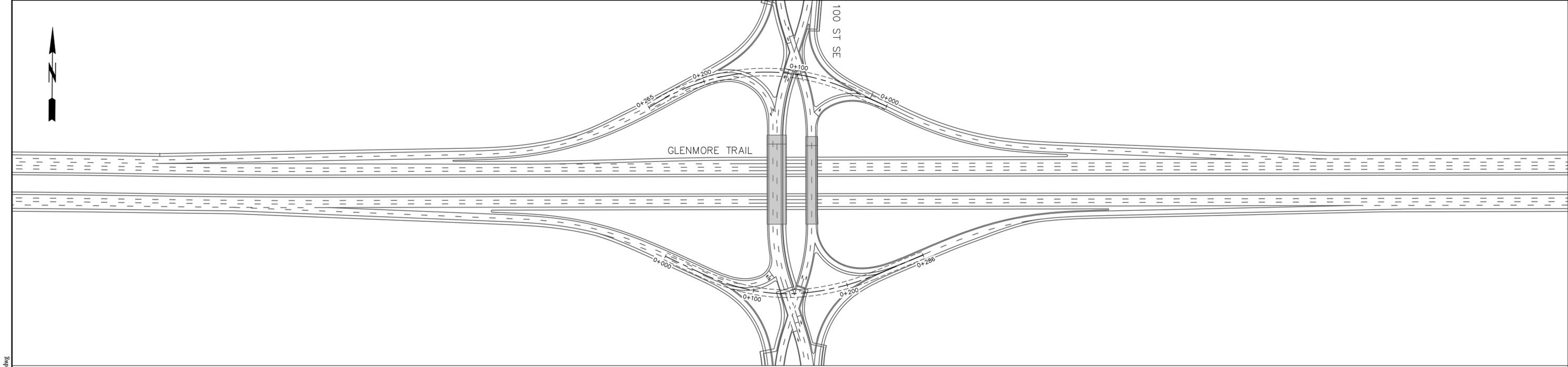
ISL Engineering and Land Services



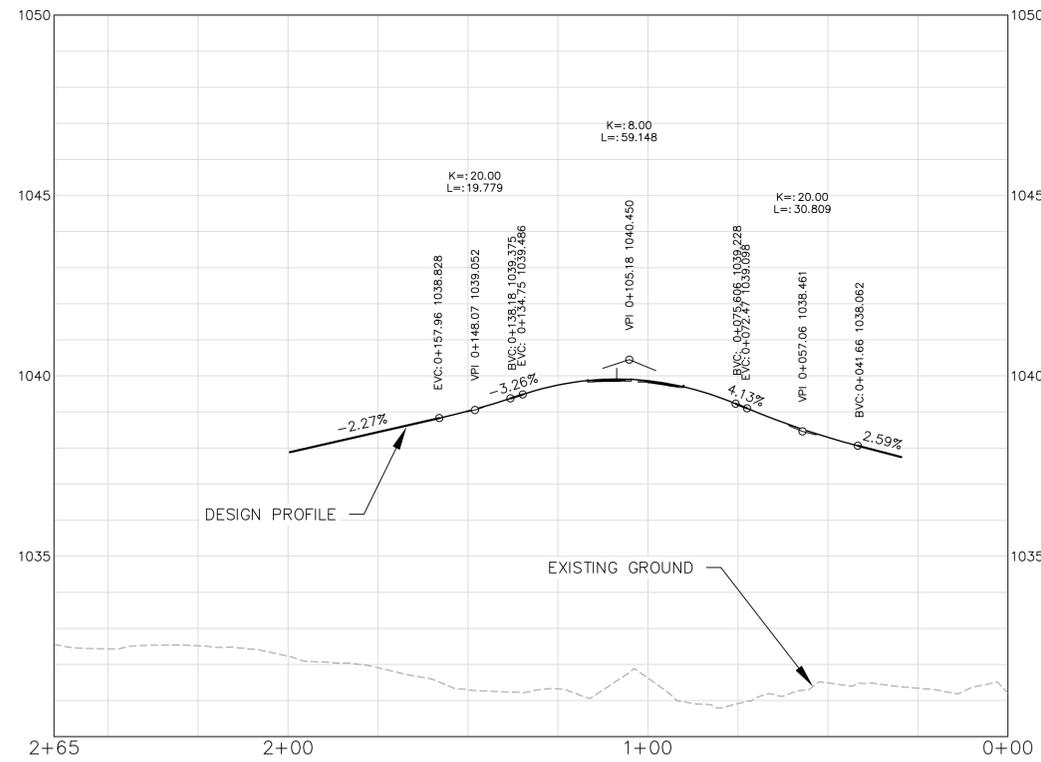
NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

NOT TO SCALE

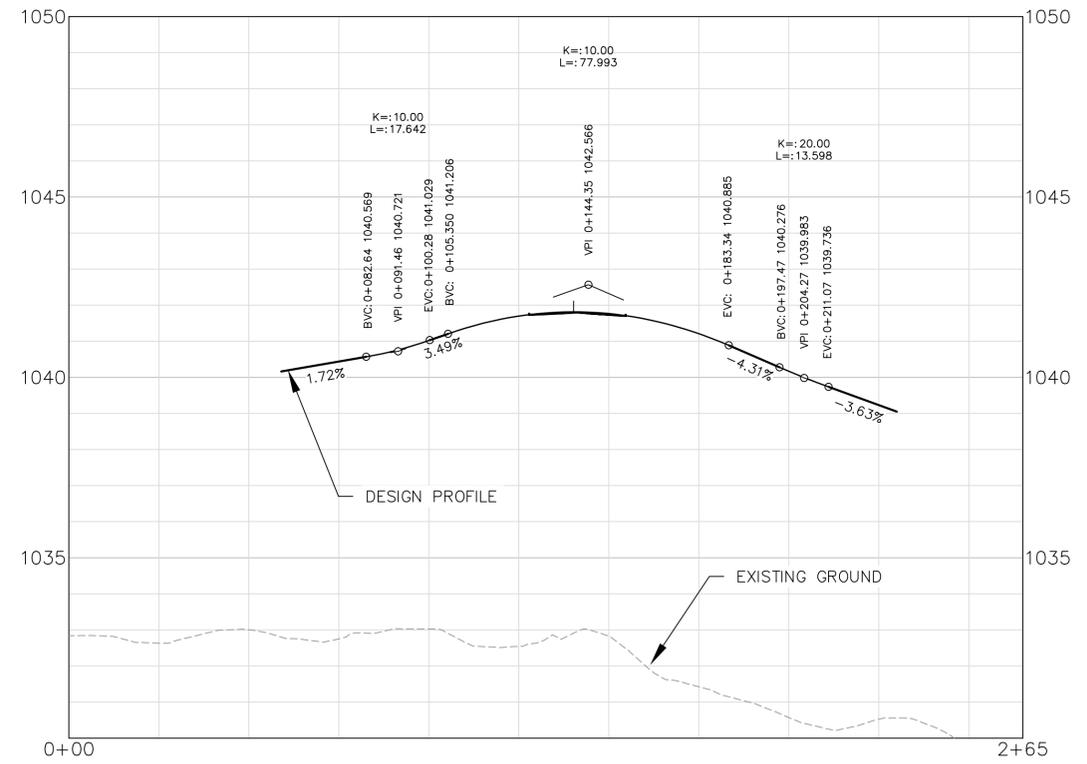
**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
RAINBOW ROAD (RANGE ROAD 283) INTERCHANGE
DESIGN VEHICLE TURNING SWEEP PATH - MODIFIED WB 36**



100-HIGHLOAD-WB PROFILE



100 ST SE (GARDEN ROAD) - HIGHLOAD - EB



Cu.: Jan / Apr. 2, 18 / J:\TC\602534 - Glenmore Trail East\4000 Project Data\700 Drawings\50 Working Drawings\05-Design Vehicle Tuning\Sweep Path.dwg

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

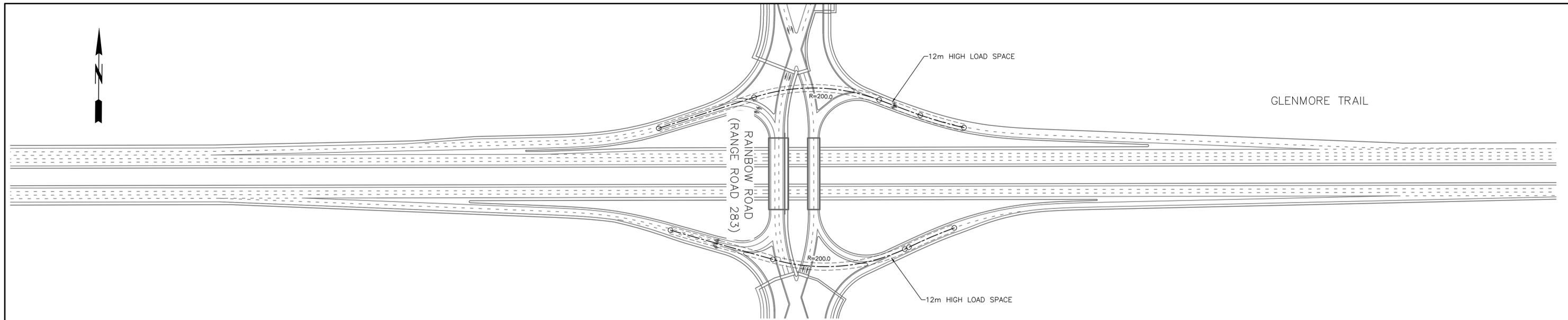


**FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)**

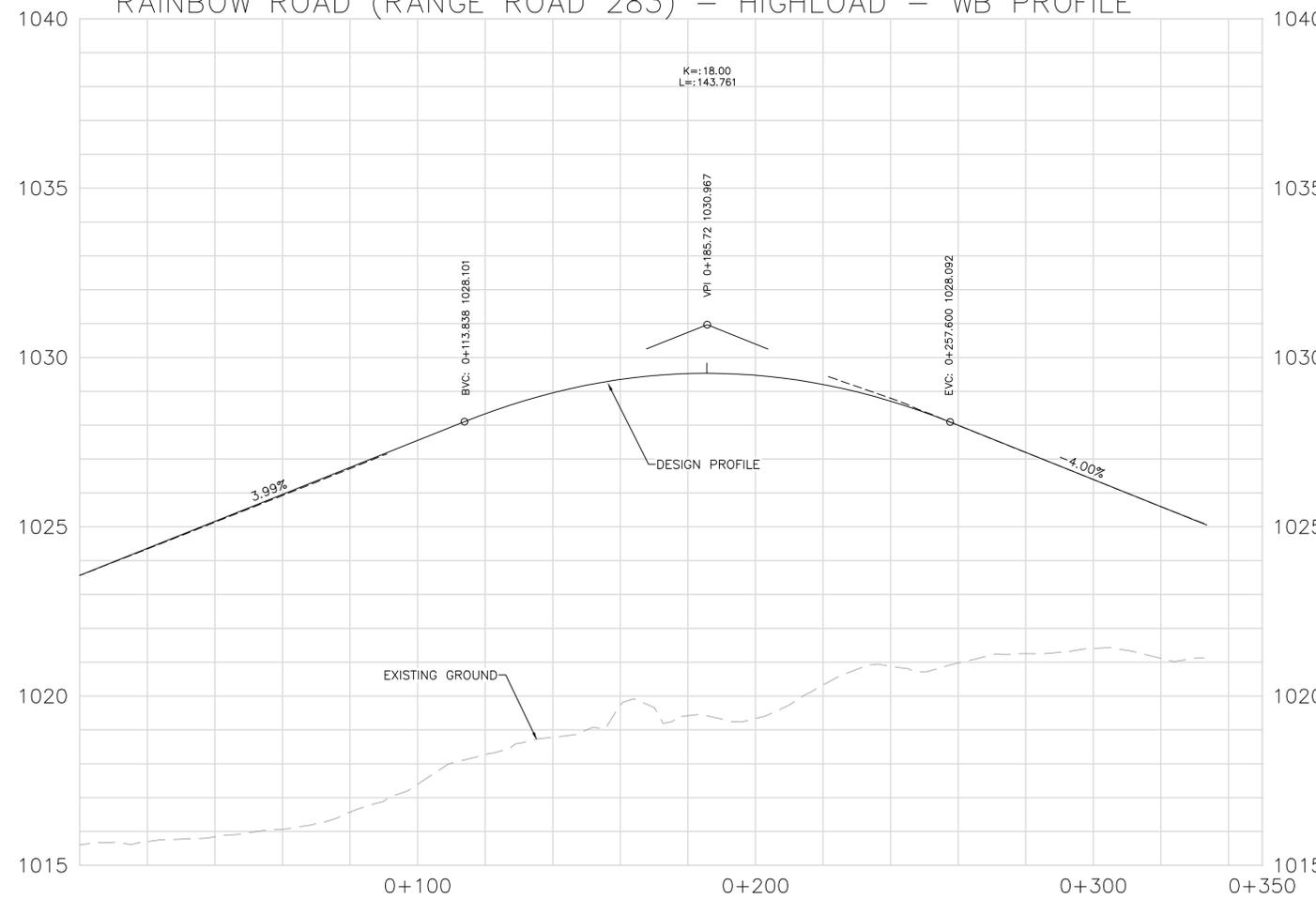
100 STREET SE (GARDEN ROAD) INTERCHANGE

HIGH LOAD PLAN AND PROFILE

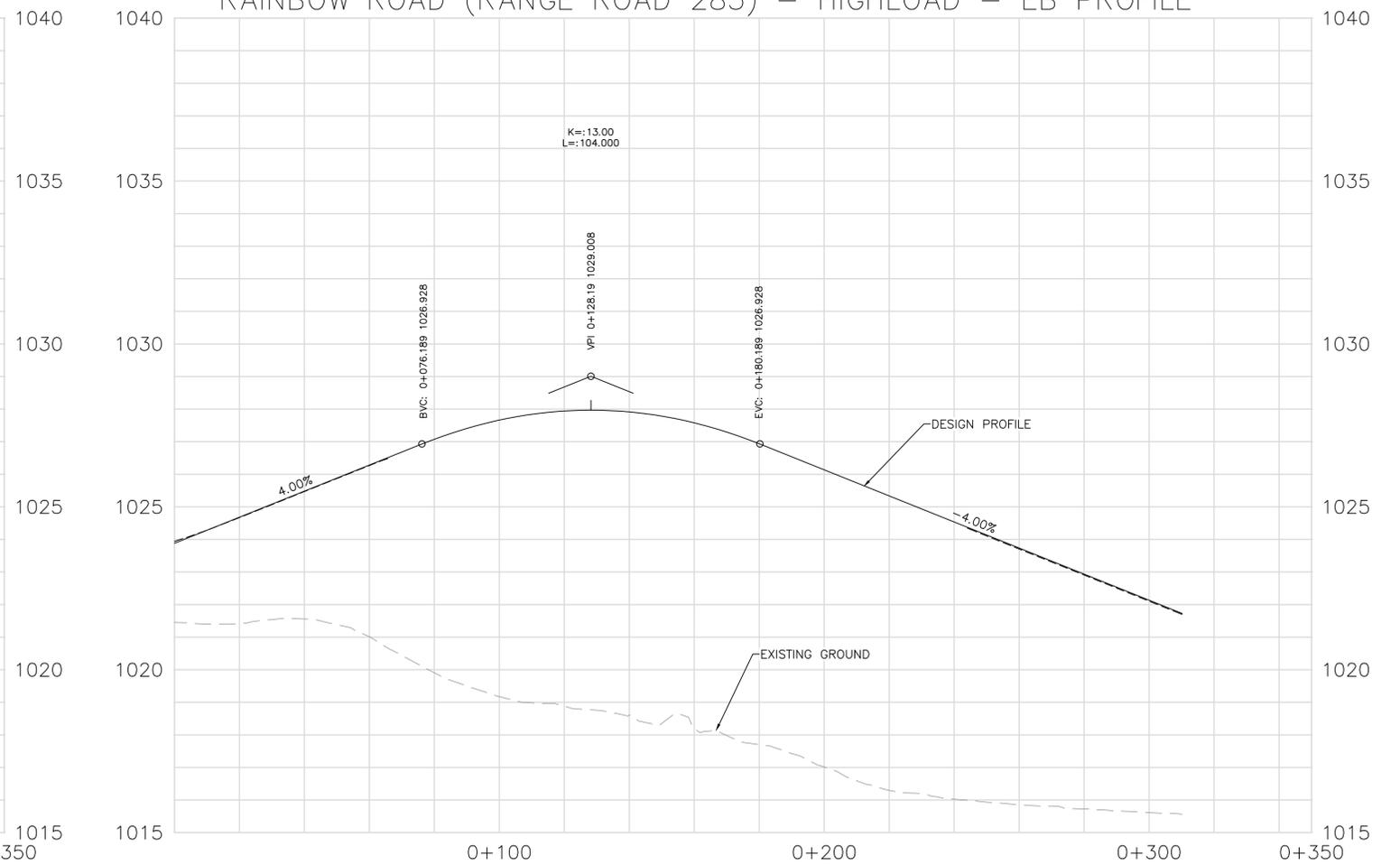
EXHIBIT 04 - HL1



RAINBOW ROAD (RANGE ROAD 283) – HIGHLOAD – WB PROFILE



RAINBOW ROAD (RANGE ROAD 283) – HIGHLOAD – EB PROFILE



Nicole Lau / Apr. 16 / M:\26500\26534_ClemontTr_1\ISL_FPS\02_CADD\21_Models\210_C3D\Alignments\26534_PA_RAINBOW_DDL_WEST_SHEET.dwg



NOTE: ALL DRAWINGS ARE
PRINTED AT HALF SCALE WHEN
IN 11" x 17" FORMAT

FUNCTIONAL PLANNING STUDY
GLENMORE TRAIL EAST - STONEY TR TO RAINBOW RD (RANGE ROAD 283)
RAINBOW ROAD (RANGE ROAD 283) INTERCHANGE

HIGHLOAD EB AND HIGHLOAD WB
EXHIBIT 04 - HL 3
AUGUST 2017