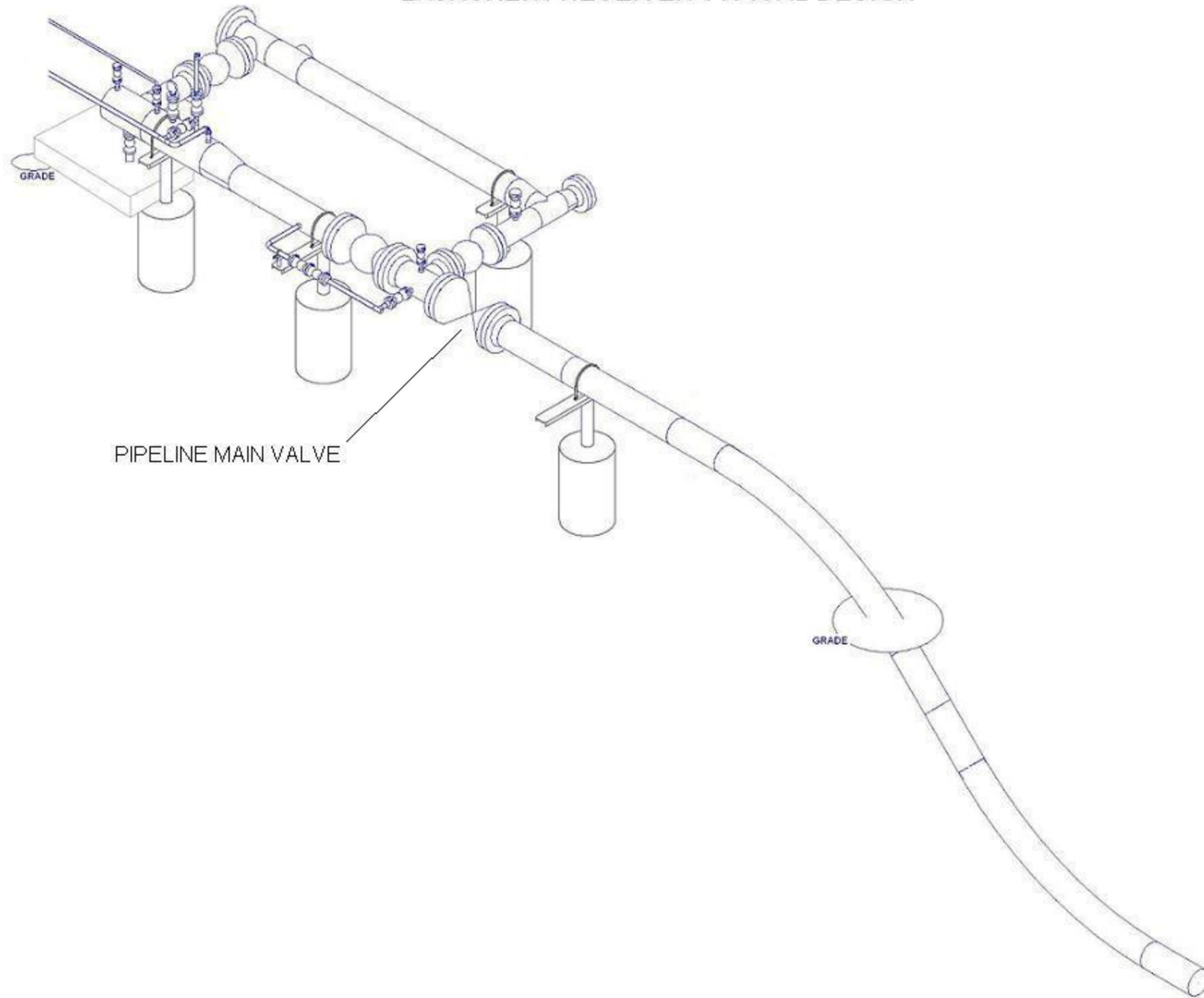


Appendix A

Engineering Documents


RAMBURG TO TIOGA RAIL TERMINAL
LAUNCHER / RECEIVER TYPICAL DESIGN



Rev.	Date	Description	Drawn	WGSN	WGSN	Hess	Hess
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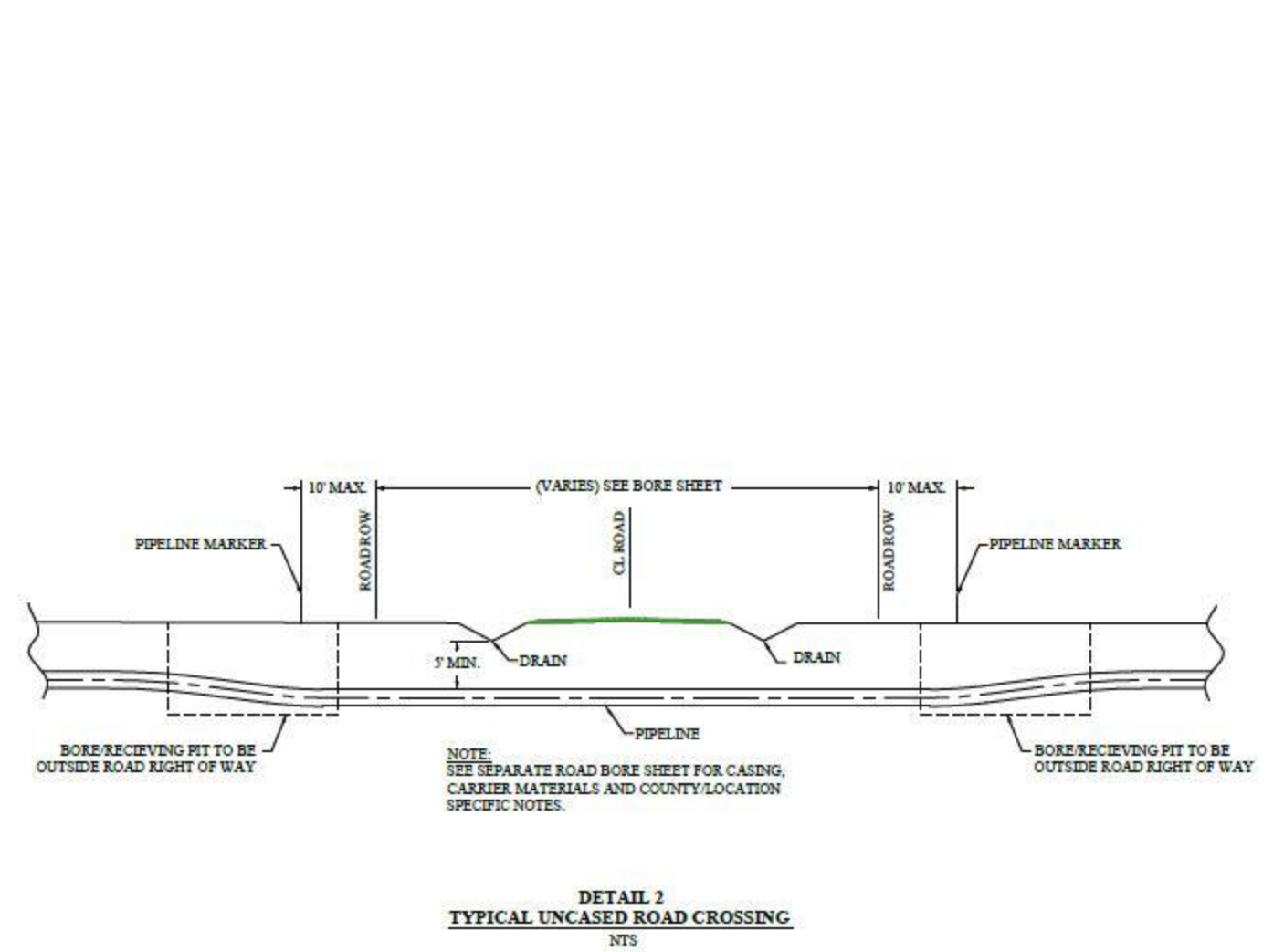
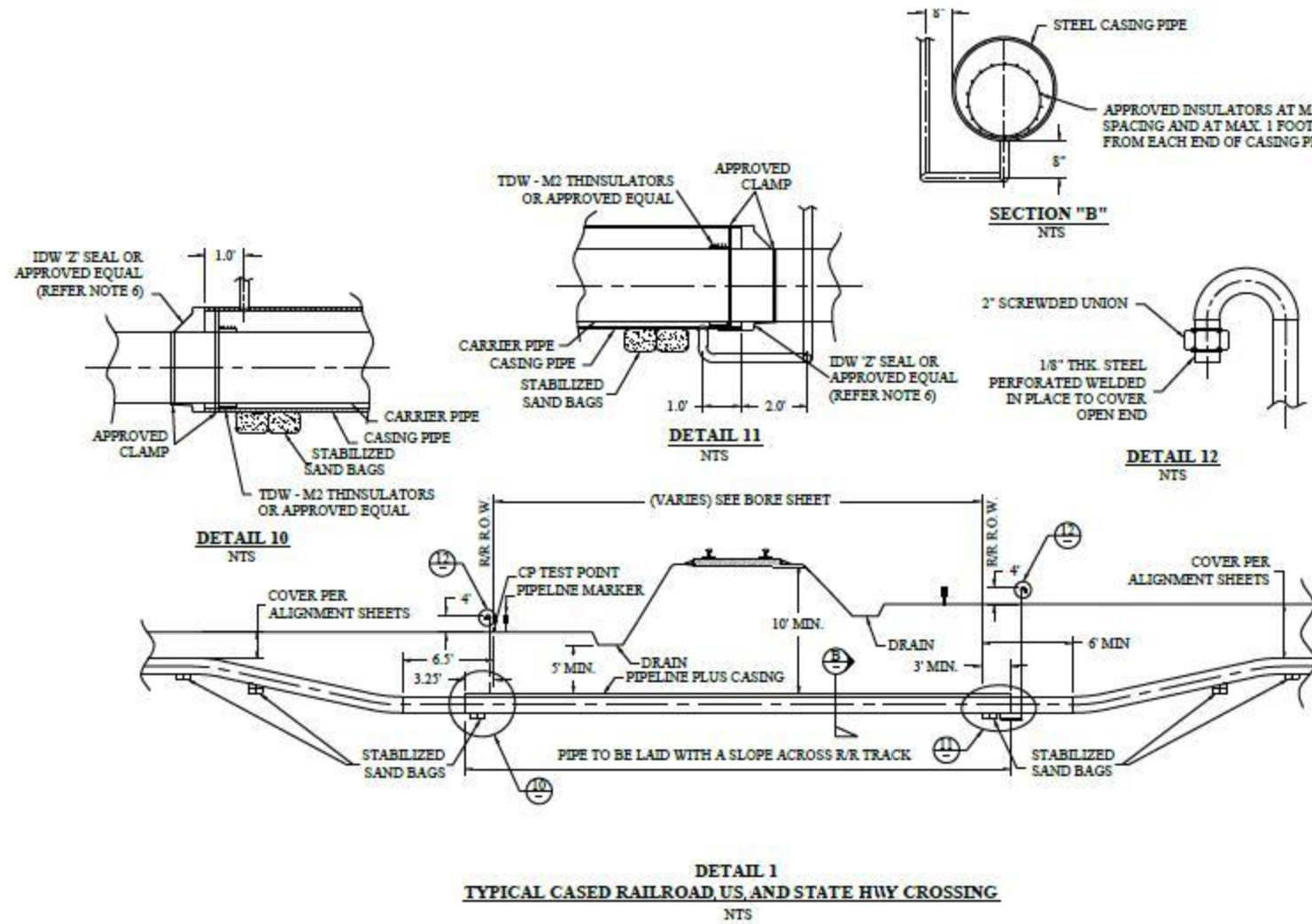
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Client Contact:	Date:	Scale: As Shown
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		HESS CORPORATION 3015 16th St SW, Suite 20 Minot, North Dakota 58701 (701) 420-6900	
Drawn:	WGSN Survey Mgr.	Checked:	Approval:
Project No.:	Task No.:	Survey	

14" Crude Oil Transmission Line	
Sheet:	1 of

RAMBURG TO TIOGA RAIL TERMINAL CROSSING TYPICAL LAYOUT



ROAD/RAILROAD BORE NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN COPIES OF ALL NECESSARY PERMITS PRIOR TO THE WORK BEING PERFORMED.
2. CASING PIPE SHALL EXTEND 3 FEET MIN. BEYOND OF RIGHT-OF-WAY. (WHERE REQUIRED).
3. APPROVED RING SPACERS SHALL BE USED THROUGHOUT THE LENGTH OF THE CASING PIPE TO SUPPORT AND ELECTRICALLY ISOLATE THE CARRIER PIPE. (WHERE REQUIRED).
4. END SEAL TO BE INSTALLED MAKING PROVISION FOR PIPE END EXPANSION.
5. ALL CROSSING INSTALLATION WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.
6. ALL RELEVANT AUTHORITIES MUST BE CONTACTED PRIOR TO CONSTRUCTION AND THE LOCATIONS AND DEPTH OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
7. TRAFFIC CONTROL PROCEDURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH AN APPROVED TRAFFIC MANAGEMENT PLAN AND REQUIREMENTS OF LOCAL ROAD AUTHORITY.
8. REINSTATEMENT OF SEALED ROAD TO BE IN ACCORDANCE WITH ROAD AUTHORITY REQUIREMENTS.

Rev.	Date	Description	Drawn	Checked	Appr.

WG
Wood Group PSN - Northern Business Unit
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**14" Crude Oil
Transmission Line**

Client Contact:	Date:	Scale: As Shown	Project No.:	Task No.: Survey	Sheet: 1 of	Rev.:
			Drawn:	WGPSN Survey Mgr.	Checked:	Approval: