



VUL-FRM-20-02- Mine Intersection Inspection

Location & Intersection #:				
Date:		Shift:		☐ Day ☐ Night
#	Description	Acceptable		Comment
1. Intersections		Yes	No	
1.1	Terminating HV Roads are at 90 degrees to the main HV Haul Road.	☐	☐	
1.2	Is the sight distance sufficient for all roads leading into the intersection? Note: Typical safe intersection sight distance (SISD) – Haul Truck = 40km/h = 70 metres.	☐	☐	
2. Road Width		Yes	No	
2.1	HV Roads are a minimum of 3.5 times the width of the largest vehicle using the intersection. Approx 28mtrs for Cat 789.	☐	☐	
3. Road Profile		Yes	No	
3.1	All road profiles contain cross fall for drainage	☐	☐	
4. Islands / Centre berms		Yes	No	
4.1	HV Road islands are installed at intersections to separate the roads.	☐	☐	
4.2	HV Road islands installed are a max 1.2 metres high to allow for LV vision.	☐	☐	
4.3	Islands are set back from the road edge to allow for sufficient SISD.	☐	☐	
4.4	Are islands positioned to "channel" vehicles into an 90 degree orientation.	☐	☐	
5. Corners		Yes	No	
5.1	Tight corners have chevron alignment markers (Minimum of 3) and are aligned for approaching traffic.	☐	☐	
5.2	Straight sections of minimum 50m for HV Roads are present either side of all intersection corners to assist visibility.	☐	☐	
5.3	All roads have a flat spot of minimum of 25 m for HV Roads of the same elevation leading into the intersection.	☐	☐	
6. Signage		Yes	No	
6.1	Intersection / Junction warning signs displayed on all roads 70m (where possible) from the approaching intersection corner.	☐	☐	
6.2	All islands display 2 x KEEP LEFT signs and primary intersections have 2 x Stop signs	☐	☐	
6.3	Is right of way priority given to the active circuit and are sufficient signage controls in place to control this.	☐	☐	
6.4	Radio call up signs in place as required.	☐	☐	
6.5	Are required speed limit signs in place.	☐	☐	



#	Description	Acceptable		Comment
7. Safety Berms		Yes	No	
7.1	HV Road berms are built 1.8m high, 5.5 wide at the base and a minimum of 1.4m wide at the top.	☐	☐	
7.2	HV Road bunding at a distance of 50m leading up to intersections are lowered where possible.	☐	☐	
7.3	High risk bunding (3 m high) is in place where drop heights exceed 5 m along road edge.	☐	☐	
7.4	Drainage breaks are in bunding where required, angle away from flow of traffic and no larger than 1 m wide.	☐	☐	
8. Delineation		Yes	No	
8.1	Delineators are installed at a maximum of 100m apart on straight sections and a maximum of 50m apart on corners.	☐	☐	
8.2	Delineators are installed in greater density at intersections, culverts and on centre islands.	☐	☐	
8.3	Are delineators visible and clean	☐	☐	
8.4	Delineators are installed 1.5m - 2m above the road surface for HV Roads.	☐	☐	
8.5	Are reflector colours on the correct side ie Red - left, white – centre & right.	☐	☐	
9. Offset Distance		Yes	No	
9.1	Intersections are offset a minimum of 70m opposite centre lines.	☐	☐	

Comments

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Corrective Actions

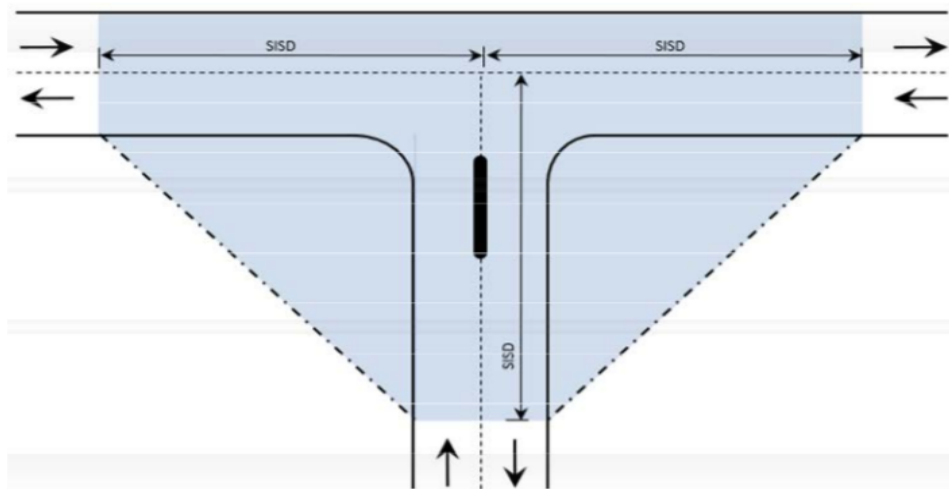
#	Action Description	Assigned to	Due Date	Entered in Actions Register (Y/N)

Sign Off

Open Cut Examiner:	Signature:
Shift Supervisor:	Signature:
TS Compliance:	Signature:



- The following diagram details the intersection sight distance envelope requirements for a hierarchy/priority rules controlled intersection:



- The following table details typical minimum SISD requirements at various speeds:

Speed (km/hr)	Safe intersection sight distance (SISD)*
10	10m
20	30m
30	50m
40	70m
50	90m
60	110m
70	145m

Longest stopping distance (e.g. Dump Truck)

