

NOTES:

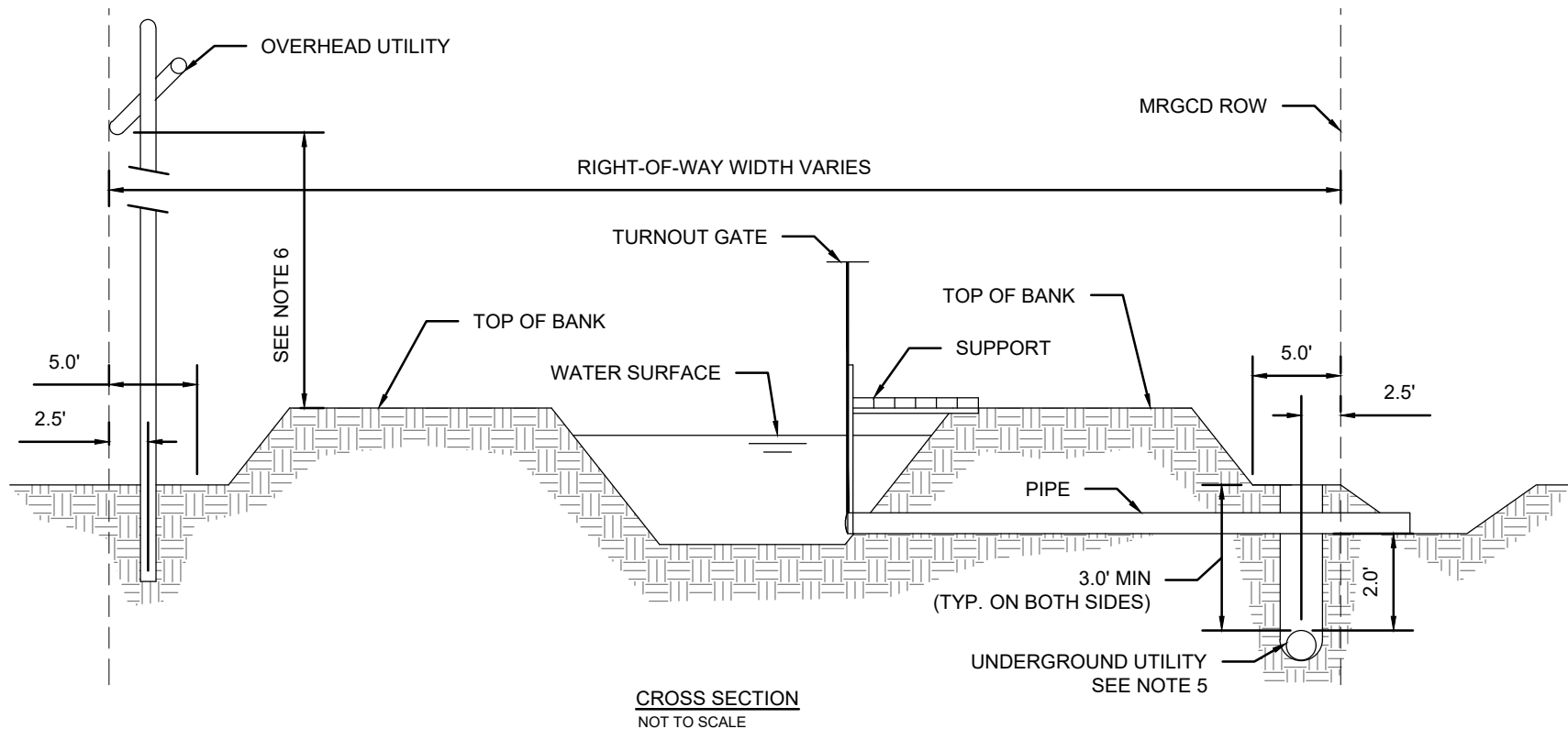
1. TUNNELING, JACKING AND BORING UTILITY INSTALLATIONS BENEATH IRRIGATION CANALS, DRAINS AND PIPE CULVERT CROSSINGS MAY BE PERMITTED THROUGH AN MRGCD LICENSE AND SPECIAL USE PERMIT. THE UTILITY CASING DIAMETER CANNOT EXCEED 6 INCHES.
2. SEE MRGCD UTILITY DETAILS FOR UTILITY DEPTH REQUIREMENTS.
3. BORE PITS SHALL BE LOCATED COMPLETELY OUTSIDE OF MRGCD RIGHT OF WAY AND, AT A MINIMUM, SHALL BEGIN 10 FEET FROM THE OUTER TOE OF SLOPE OR 20 FEET FROM THE TOP OF BANK, WHICHEVER IS LARGER.
4. BORE PITS SHALL BE CONSTRUCTED WITH A SIDE SLOPE NO STEEPER THAN 1.5H:1V DIRECTED AWAY FROM THE MRGCD FACILITY.
5. BACKFILL FOR DISTURBED AREAS SHALL BE COMPACTED TO NO LESS THAN 90% OF THE MAXIMUM DRY DENSITY OF THE SOIL AS DETERMINED BY THE ASTM PROCTOR TEST.
6. OPEN CUTS OPERATIONS ARE PROHIBITED DURING IRRIGATION SEASON, MARCH 1ST - OCTOBER 31ST.
7. REPLACEMENT OR REPAIR OF ANY DAMAGES TO CANAL EMBANKMENTS, PIPE CULVERTS OR OTHER INFRASTRUCTURE CAUSED BY THE UTILITY INSTALLATION SHALL BE COMPLETED PRIOR TO DEMOBILIZATION.
8. IT IS THE RESPONSIBILITY OF THE INSTALLER TO IDENTIFY ALL EXISTING UTILITY CONFLICTS AND MAINTAIN PROPER OFFSETS.
9. UTILITY INSTALLATIONS SHALL COMPLY WITH THE LATEST EDITION AND AMENDMENTS TO APPLICABLE LAWS, ORDINANCES, AND REGULATIONS OF FEDERAL, STATE, OR LOCAL AGENCIES HAVING JURISDICTION.
10. SEEDING OF DISTURBED AREAS WITHIN MRGCD RIGHT OF WAY IS REQUIRED PER MRGCD SEEDING SPECIFICATION.
11. VARIANCES FROM THIS DETAIL SHALL BE APPROVED BY THE MRGCD ENGINEERING DEPARTMENT.



MRGCD STANDARD DETAIL

BORE PITS

REVISION DATE
1/9/2023



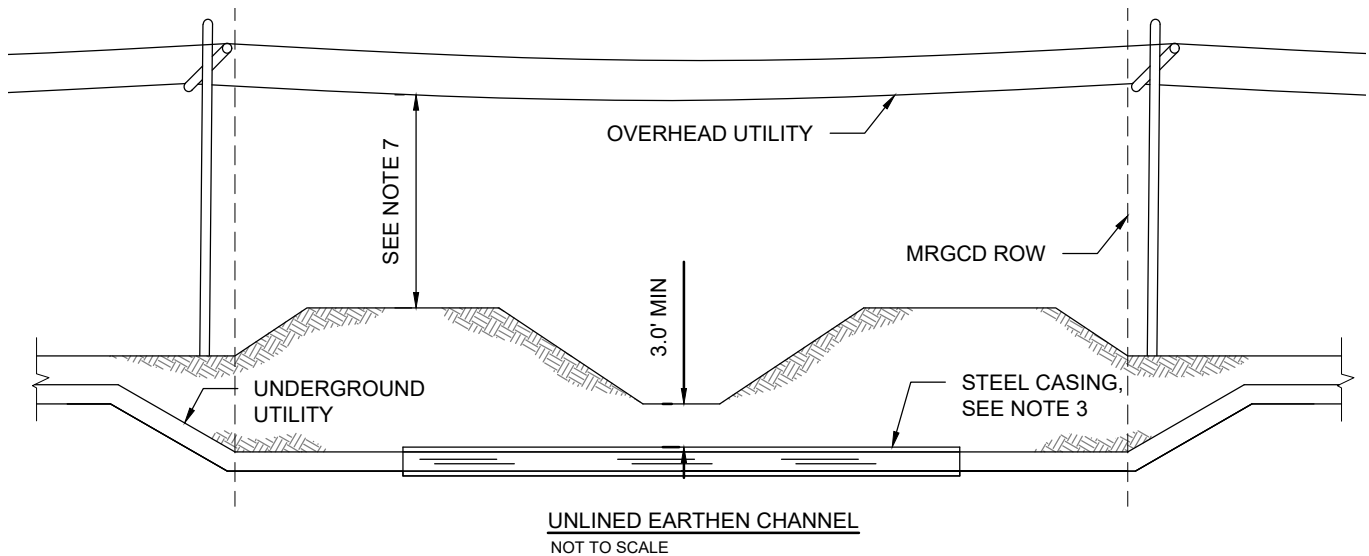
- NOTES:**
1. UTILITY INSTALLATIONS WITHIN MRGCD RIGHT-OF-WAY MUST BE PERMITTED THROUGH AN MRGCD LICENSE AND SPECIAL USE PERMIT.
 2. UTILITY INSTALLATIONS SHALL COMPLY WITH THE LATEST EDITION AND AMENDMENTS TO APPLICABLE LAWS, ORDINANCES, AND REGULATIONS OF FEDERAL, STATE, OR LOCAL AGENCIES HAVING JURISDICTION.
 3. A MINIMUM COVER OF 2 FEET ABOVE THE UTILITY SHALL BE MAINTAINED FOR ANTICIPATED LOADING AND TRAFFIC.
 4. ALL PARALLEL UTILITIES SHALL BE LOCATED WITHIN THE OUTER 5 FEET OF MRGCD RIGHT-OF-WAY TO PREVENT INTERFERENCE WITH MAINTENANCE OPERATIONS.
 5. UNDERGROUND UTILITIES SHALL BE BURIED TO A MINIMUM DEPTH OF 3 FEET OR 2 FEET IF BELOW ANY EXISTING IRRIGATION INFRASTRUCTURE SUCH AS TURNOUTS AND CULVERTS, WHICHEVER IS LARGER.
 6. A MINIMUM VERTICAL CLEARANCE OF 30 FEET BETWEEN ANY MRGCD INFRASTRUCTURE AND OVERHEAD POWER LINES SHALL BE MAINTAINED. A MINIMUM VERTICAL CLEARANCE OF 25 FEET BETWEEN MRGCD INFRASTRUCTURE AND TELECOMMUNICATION LINES SHALL BE MAINTAINED.
 7. BACKFILL FOR DISTURBED AREAS SHALL BE COMPACTED TO NO LESS THAN 90% OF THE MAXIMUM DRY DENSITY OF THE SOIL AS DETERMINED BY THE ASTM PROCTOR TEST.
 8. SEEDING OF DISTURBED AREAS WITHIN MRGCD RIGHT OF WAY IS REQUIRED PER MRGCD SEEDING SPECIFICATION.
 9. REPLACEMENT OR REPAIR OF ANY DAMAGES TO CANAL EMBANKMENTS, PIPE CULVERTS OR OTHER INFRASTRUCTURE CAUSED BY THE UTILITY INSTALLATION SHALL BE COMPLETED PRIOR TO DEMOBILIZATION.
 10. IT IS THE RESPONSIBILITY OF THE INSTALLER TO IDENTIFY ALL EXISTING UTILITY CONFLICTS AND MAINTAIN PROPER OFFSETS.
 11. MAINTENANCE OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE LICENSEE.
 12. VARIANCES FROM THIS DETAIL SHALL BE APPROVED BY THE MRGCD ENGINEERING DEPARTMENT.



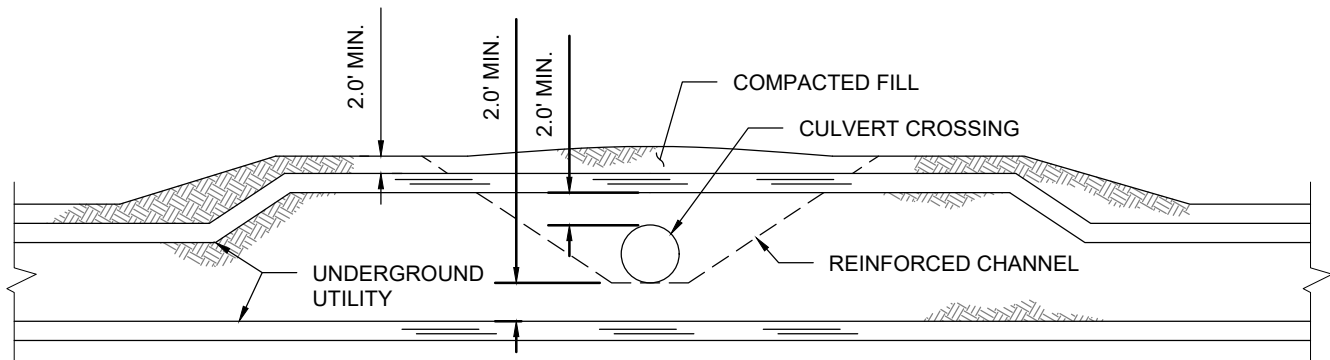
MRGCD STANDARD DETAIL

PARALLEL UTILITY

REVISION DATE
4/5/2021



UNLINED EARTHEN CHANNEL
NOT TO SCALE



CULVERT OR REINFORCED CHANNEL SECTION
NOT TO SCALE

NOTES:

1. UTILITY INSTALLATIONS ABOVE AND BENEATH IRRIGATION CANALS, DRAINS AND PIPE CULVERT CROSSINGS MUST BE PERMITTED THROUGH AN MRGCD LICENSE AND SPECIAL USE PERMIT.
2. UTILITY INSTALLATIONS SHALL COMPLY WITH THE LATEST EDITION AND AMENDMENTS TO APPLICABLE LAWS, ORDINANCES, AND REGULATIONS OF FEDERAL, STATE, OR LOCAL AGENCIES HAVING JURISDICTION.
3. STEEL PIPE CASING SHALL BE USED IN PLACE OF PLASTIC PIPE AT WATERWAY CROSSINGS. ALTERNATELY, THE PLASTIC PIPE MAY BE CASED IN STEEL PIPE.
4. A MINIMUM CLEARANCE OF 3 FEET BETWEEN THE BOTTOM OF AN UNLINED EARTHEN CHANNEL AND THE TOP OF UTILITY PIPE SHALL BE MAINTAINED. A MINIMUM CLEARANCE OF 2 FEET BETWEEN THE BOTTOM OF A CULVERT OR REINFORCED CHANNEL SECTION AND THE TOP OF UTILITY PIPE SHALL BE MAINTAINED.
5. A MINIMUM COVER OF 2 FEET ABOVE THE UTILITY SHALL BE MAINTAINED FOR ANTICIPATED LOADING AND TRAFFIC.
6. OVERHEAD UTILITY CROSSING INFRASTRUCTURE SUCH AS POWER POLES AND GUY WIRES SHALL BE LOCATED OUTSIDE OF MRGCD RIGHT-OF-WAY.
7. A MINIMUM VERTICAL CLEARANCE OF 30 FEET BETWEEN ANY MRGCD INFRASTRUCTURE AND OVERHEAD POWER LINES SHALL BE MAINTAINED. A MINIMUM VERTICAL CLEARANCE OF 25 FEET BETWEEN MRGCD INFRASTRUCTURE AND TELECOMMUNICATION LINES SHALL BE MAINTAINED.
8. BACKFILL FOR DISTURBED AREAS SHALL BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE SOIL AS DETERMINED BY THE ASTM PROCTOR TEST.
9. UTILITY CONDUITS SHALL NOT BE HUNG ON OR ATTACHED TO IRRIGATION INFRASTRUCTURE. TRUNK UTILITY CONDUITS MAY BE PERMITTED ON CONCRETE BRIDGES.
10. SEEDING OF DISTURBED AREAS WITHIN MRGCD RIGHT OF WAY IS REQUIRED PER MRGCD SEEDING SPECIFICATION.
11. REPLACEMENT OR REPAIR OF ANY DAMAGES TO CANAL EMBANKMENTS, PIPE CULVERTS OR OTHER INFRASTRUCTURE CAUSED BY THE UTILITY INSTALLATION SHALL BE COMPLETED PRIOR TO DEMOBILIZATION.
12. IT IS THE RESPONSIBILITY OF THE INSTALLER TO IDENTIFY ALL EXISTING UTILITY CONFLICTS AND MAINTAIN PROPER OFFSETS.
13. MAINTENANCE OF ALL UTILITY CROSSINGS SHALL BE THE RESPONSIBILITY OF THE LICENSEE.
14. VARIANCES FROM THIS DETAIL SHALL BE APPROVED BY THE MRGCD ENGINEERING DEPARTMENT.



MRGCD STANDARD DETAIL

PERPENDICULAR UTILITY

REVISION DATE
4/5/2021