GENERAL NOTES

1. PRECAST CONCRETE BARRIER SHALL BE CONSTRUCTED WITH CLASS X CONCRETE MANUFACTURED IN ACCORDANCE WITH SECTION 8 of the STANDARD SPECIFICATIONS.

2. REINFORCING STEEL: 100% ASTM A36.

3. THE CONNECTOR PIN, 1/2" x 2-1/2" THREADED ROD OR 1/2" x 2-1/2" SLEEVE SHALL HAVE A MINIMUM OF 45,000 PSI TENSILE STRENGTH. THE FABRICATOR SHALL APPLY THE TWO HEAVY FLAT WASHERS TO MEET ASTM A48. THE CONNECTOR PIN, TOP CONNECTOR, BOTTOM CONNECTOR, HATS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111.

4. PLUGS TO BE REMOVED. 2" MINIMUM SPACE FROM OUTSIDE FACE OF RAIL. EXCEPT AS OTHERWISE SHOWN.

5. PAINTING WILL BE MADE UNDER ITEM NO. 710-02.02, INTERCONNECTED PORTABLE BARRIER RAIL, PEN, NEAR FOOT.

6. ANY SALVABLE VALUE OF "THE PORTABLE BARRIER RAIL WILL BECOME THE PROPERTY OF "THE CONTRACTOR." THE PORTABLE BARRIER RAIL SHALL BE MOVED OFF THE PROJECT.

7. WHEN INTERCONNECTED PORTABLE BARRIER RAIL IS CONSTRUCTED IN THE UPRIGHT POSITION AS SHOWN ON THE DRAWING THE END BARS WILL BECOME OPTIONAL AND MAY BE REMOVED FROM THE INSTALLATION.

8. ALTERNATE CONNECTOR HARDWARE OF THE ABOVE DESIGN REQUIREMENTS ARE EQUIVALENT RENOWNED, BUT DESIGNED WITH LESS EXTENSIVELY PROVEN CONSTRUCTION TESTED IN CONCRETE IN ALIGNMENT WITH THE PREVIOUS METAL RAILING CHARTER SPECIFICATIONS. A NEUTRAL REPORT IS SUBMITTED TO THE DIVISION OF STRUCTURES FOR AN APPROVAL.

9. APPROVED QUALIFIED PRODUCTS LISTS FOR ACCEPTABLE PRODUCTS.

10. ALL STEEL CONNECTIONS MUST BE MADE IN A SINGLE RUN OF INTERCONNECTED PORTABLE BARRIER RAIL. IT IS IMPORTANT TO PROVIDE MIN. 4' DEFLECTION ZONE BEHIND THE BARRIER RAIL.

11. A 3" X 4" DELINATOR SHALL BE INSTALLED ON EACH BARRIER WALL. SEE STANDARD DETAIL "A".

12. INTERCONNECTING HARDWARE MEETING TL-3 EVALUATION CRITERIA SPECIFIED IN NCHRP 350:2005-03 ARE TO BE USED IN A SINGLE RUN OF INTERCONNECTED PORTABLE BARRIER RAIL. OTHERWISE SHOWN.

13. APPROVED QUALIFIED PRODUCTS LISTS FOR ALTERNATES TO THE INTERCONNECTED PORTABLE BARRIER RAIL, PER L.F.

14. ONLY PRODUCTS LISTED ON THE DEPARTMENT'S QPL SHALL BE USED.

15. PAYMENT WILL BE MADE UNDER ITEM NO. 710-02.02, INTERCONNECTED PORTABLE BARRIER RAIL, PEN, NEAR FOOT.

16. ALL STEEL REINFORCEMENT (AS SHOWN) IS 2" MINIMUM FROM OUTSIDE FACE OF WALL, EXCEPT AS OTHERWISE SHOWN.

17. FROM THE INSTALLATION.

18. ANY DELINATOR (AS SHOWN) IS 2" MINIMUM FROM OUTSIDE FACE OF WALL. SEE STANDARD DETAIL A.

19. WHEN A FENCE BETWEEN THE TRAVELED WAY AND BARRIER RAIL IS NOT FEASIBLE, MOUNT A DELINATOR AS SHOWN ON FIG. 2 AT EVERY 20'.

20. INTERCONNECTED PORTABLE BARRIER RAIL, PER L.F.

21. INTERCONNECTED PORTABLE BARRIER RAIL, TO BE PAID FOR UNDER ITEM NUMBER.

LIFTING HOLE AND SLOT FOOTNOTES

1. 2" DIAMETER LIFTING HOLE: 3 REQUIRED FOR EACH SECTION TO BE PLACED 3'-4" FROM EITHER END OF THE THERMOMETER RAIL.

2. ADDITIONAL HOLES MAY BE ADDED TO THE THERMOMETER RAIL. PLACEMENT OF ADDITIONAL HOLES TO BE AT THE DISCRETION OF THE FABRICATOR. FORMED WITH 2" PVC PIPE OR EQUAL.

3. LIFTING HOLE IN THE THERMOMETER RAIL TO BE PLACED 3'-4" FROM EITHER END OF THE THERMOMETER RAIL. ADDITIONAL HOLES MAY BE ADDED TO THE THERMOMETER RAIL. PLACEMENT OF ADDITIONAL HOLES TO BE AT THE DISCRETION OF THE FABRICATOR. FORMED WITH 2" PVC PIPE OR EQUAL.

4. LIFT HOLES TO PROVIDE DRAINAGE FOR PAVEMENT DO NOT BLOCK THE OPENINGS.

5. IT IS IMPORTANT TO PROVIDE MIN. 4' DEFLECTION ZONE BEHIND THE BARRIER RAIL.

6. A 3" X 4" DELINATOR SHALL BE INSTALLED ON EACH BARRIER WALL. SEE STANDARD DETAIL "A".

7. INTERCONNECTING HARDWARE MEETING TL-3 EVALUATION CRITERIA SPECIFIED IN NCHRP 350:2005-03 ARE TO BE USED IN A SINGLE RUN OF INTERCONNECTED PORTABLE BARRIER RAIL.

8. ONLY PRODUCTS LISTED ON THE DEPARTMENT'S QPL SHALL BE USED.

APPROXIMATE WEIGHT AND QUANTITIES

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<th>SECTION</th>
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BILL OF STEEL

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

REV. 3-16-17: ADDED GENERAL NOTES.

REV. 4-22-91: CHANGED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 5-27-99: ADDED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 6-30-09: ADDED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 7-29-91: ADDED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 2-22-04: CHANGED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 7-29-91: ADDED GENERAL NOTES FROM 8" CM TO 10" CM INTERCONNECTED PORTABLE BARRIER RAIL.

REV. 2-22-04: ADDED C400 BAR TO INCLUDE TOP CONNECTOR.

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