REQUIREMENTS OF WELDING SHALL BE SHIELDED METAL ARC WELDING USING PROPERLY DRIED ELECTRODES.

NOTES:

1. TEMPORARY CONCRETE BARRIER SHALL BE PRECISELY IN ACCORDANCE WITH THE REQUIREMENTS OF NYSDOT-05, PRECAST CONCRETE BARRIER.
2. STEEL PLATE SHALL BE ASTM A36 GRADE 36, TUBE STEEL SHALL BE ASTM A500 GRADE B OR C, AND REINFORCING BARS SHALL BE ASTM A615 GRADE 80.
3. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH SECTION 8 OF THE NYS STEEL CONSTRUCTION MANUAL.
4. SURFACES TO BE WELDED SHALL BE FREE OF SLAG, RUST, MOISTURE, GREASE OR ANY OTHER SUBSTANCE THAT WILL PREVENT PROPER WELDING OF PRODUCT OR OBJECTIVE FILES.
5. WELDING SHALL BE SURVEYED IN-PLACE AND WELDING SEAM DEFECTS FOUND TO NEED REPAIRS, OR WHERE ELECTRICAL CURRENTS COMPARE WITH THE REQUIREMENTS OF SECTION 7 OF THE NYS STEEL CONSTRUCTION MANUAL.
6. CONCRETE FACE COVERS FOR REINFORCING BARS SHALL BE 1" TO 1 1/2" IN DEPTH EXCEPT WHERE OTHERWISE SPECIFIED.
7. A MINIMUM OF 2" DIA. REINFORCING BARS, WITH THE CAPACITY TO CAP A TON, SHALL BE INSTALLED IN EACH SEGMENT.
8. ALL STEEL PLATE COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
9. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
10. THE DETAILS SHOWN FOR THE END SECTIONS ON THIS SHEET ARE FOR APPROACH ENDS WHICH ARE TO BE LOCATED TO THE LEFT OF THE TRAFFIC FLOW ON ONE-WAY OPERATIONS, OR BETWEEN OPPOSING FLOWS OF TRAFFIC ON TWO-WAY OPERATIONS. WHEN AN APPROACH END IS TO BE LOCATED TO THE RIGHT OF THE TRAFFIC FLOW, THE END DETAILS SHOWN ON THIS SHEET ARE TO BE COLORED FOR ALL CONSTRUCTIONS, WHETHER NEAR LOCATIONS AND REINFORCEMENT.
11. ALTERNATE CONFIGURATIONS, ANCHOR HOLE LOCATIONS AND REINFORCEMENT. THE DETAILS SHOWN FOR THE END SECTIONS ON THIS SHEET ARE FOR APPROACH ENDS WHICH ARE TO BE LOCATED TO THE LEFT OF THE TRAFFIC FLOW ON ONE-WAY OPERATIONS, OR BETWEEN OPPOSING FLOWS OF TRAFFIC ON TWO-WAY OPERATIONS. WHEN AN APPROACH END IS TO BE LOCATED TO THE RIGHT OF THE TRAFFIC FLOW, THE END DETAILS SHOWN ON THIS SHEET ARE TO BE COLORED FOR ALL CONSTRUCTIONS, WHETHER NEAR LOCATIONS AND REINFORCEMENT.
12. ALL END SEGMENTS SHALL BE PINNED UNLESS OTHERWISE NOTED.
13. CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 1 1/2" (MIN.) EXCEPT WHERE OTHERWISE SPECIFIED.
14. CONSTRUCTION MANUAL.
15. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
16. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
17. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
18. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
19. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
20. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
21. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
22. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
23. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
24. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
25. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
26. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
27. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
28. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
29. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
30. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
31. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
32. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
33. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
34. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
35. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
36. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
37. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
38. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
39. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
40. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
41. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
42. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
43. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
44. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
45. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
46. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
47. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
48. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
49. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
50. CONSTRUCTION KEY COVERS SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
1. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH AND EXTEND AWAY FROM TRAFFIC.

2. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

3. **TEMPORARY CONCRETE BARRIER** MAY ONLY BE INSTALLED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

4. **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

5. **TEMPORARY CONCRETE BARRIER** MUST BE STIFFENED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

6. **TEMPORARY CONCRETE BARRIERS** ARE PLACED ON A RADIUS, THE RESULTING GAPS BETWEEN THE BOX BEAM AND CONCRETE BARRIER SHALL BE STIFFENED.

7. THE SHIMMING SHALL CONSIST OF 8" X 8" X 1" SQUARE PLATE, AND FENDER WASHERS AS NEEDED TO SNUG THE BOX BEAM STIFFENER TO THE TCB.

8. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH AND EXTEND AWAY FROM TRAFFIC.

9. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

10. **TEMPORARY CONCRETE BARRIER** MUST BE STIFFENED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

**NOTES:**

1. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF 090-00.

2. **TEMPORARY CONCRETE BARRIER** SHALL BE PRECAST IN ACCORDANCE WITH THE REQUIREMENTS OF 090-00.

3. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH AND EXTEND AWAY FROM TRAFFIC.

4. **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

5. **TEMPORARY CONCRETE BARRIER** MUST BE STIFFENED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

6. **TEMPORARY CONCRETE BARRIERS** ARE PLACED ON A RADIUS, THE RESULTING GAPS BETWEEN THE BOX BEAM AND CONCRETE BARRIER SHALL BE STIFFENED.

7. THE SHIMMING SHALL CONSIST OF 8" X 8" X 1" SQUARE PLATE, AND FENDER WASHERS AS NEEDED TO SNUG THE BOX BEAM STIFFENER TO THE TCB.

8. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH AND EXTEND AWAY FROM TRAFFIC.

9. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

10. **TEMPORARY CONCRETE BARRIER** MUST BE STIFFENED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.

**NOTES:**

1. **TEMPORARY CONCRETE BARRIER** WITH BOX BEAM STIFFENER SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF 090-00.

2. **TEMPORARY CONCRETE BARRIER** SHALL BE PRECAST IN ACCORDANCE WITH THE REQUIREMENTS OF 090-00.

3. **TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER** MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.
THE 6B2 AND 6B3 BARS SHALL BE 1'-0" SHORTER THAN THE NOMINAL LENGTH OF BOX BEAM 6 X 6 X ‰.

**NOTES:**

1. THE DETAILS SHOWN ON THIS SHEET REPRESENT AN ACCEPTABLE MEANS OF TRANSITIONING FROM BOX BEAM TO TEMPORARY CONCRETE BARRIER USING STEEL BARS INSTEAD OF ANCHOR HOLE. OTHER MEANS MAY ALSO BE ACCEPTABLE IF APPROVED BY MEDICAL OFFICER.
2. USE OF ANCHOR HOLES SHALL BE 1'-0" SHORTER THAN THE NOMINAL length OF THE STANDARD BOX BEAM.
3. ANCHOR HOLE (TYP.)
4. NO BOLT IS REQUIRED BETWEEN THE BOX BEAM AND THE BLOCKOUT AT THIS POST ONLY.
5. LIFTING DEVICES, (2) MINIMUM 2'-0" TYP.