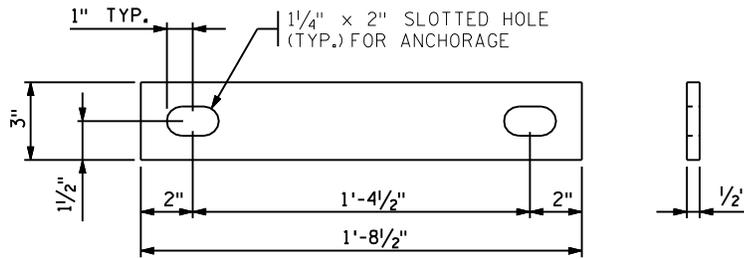
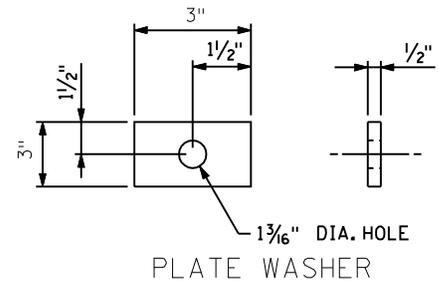
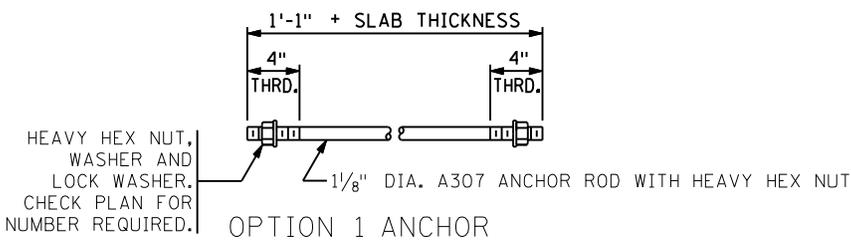
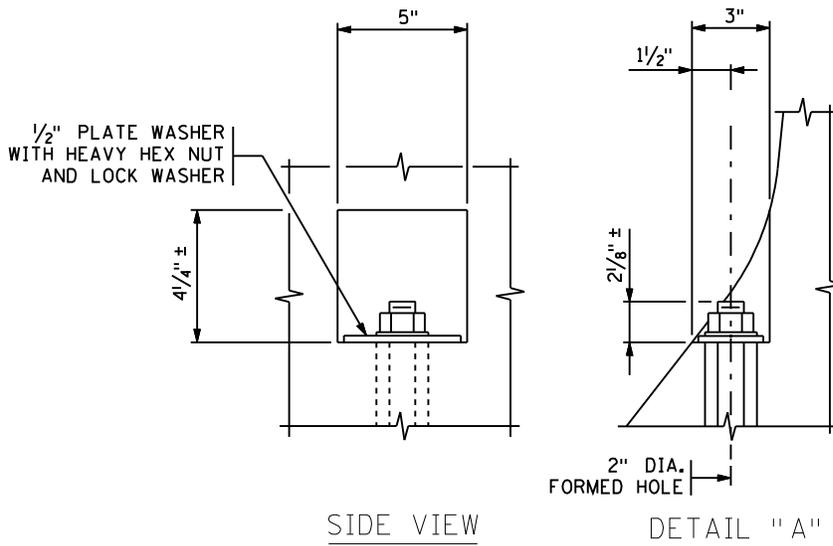


ANCHORAGE DETAILS
REINFORCEMENT NOT SHOWN



ANCHORAGE BRACKET FOR OPTION 1



NOTES:

- ALL EXPOSED HARDWARE IS TO BE GALVANIZED AS PER Mn/DOT SPEC. 3392.
- ALL STRUCTURAL STEEL IS TO BE Mn/DOT SPEC. 3306 UNLESS OTHERWISE NOTED.
- COST OF ANCHORAGES IS INCIDENTAL TO THE COST OF PLACING THE PORTABLE PRECAST BARRIER.**
- FILL ANCHORAGE HOLES WITH AN APPROVED EPOXY GROUT AFTER THE PORTABLE BARRIERS ARE REMOVED.
- ① PERCUSSION DRILLING OF THESE HOLES IS NOT PERMITTED.

APPROVED: NOVEMBER 22, 2002

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

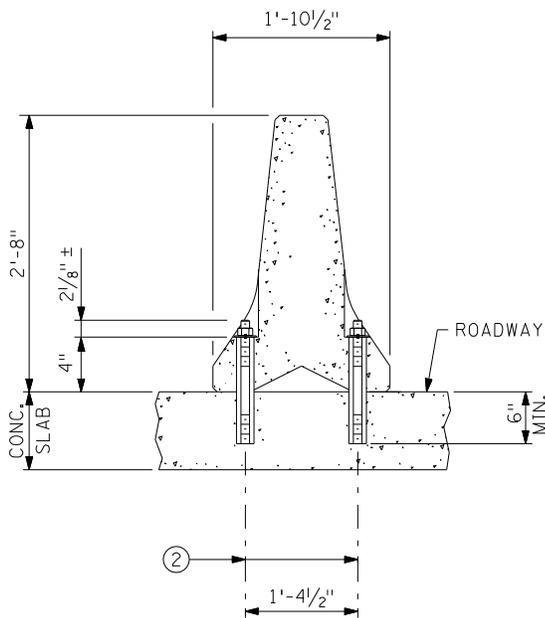
REVISED
07-29-2003

DETAIL NO.
MODIFIED

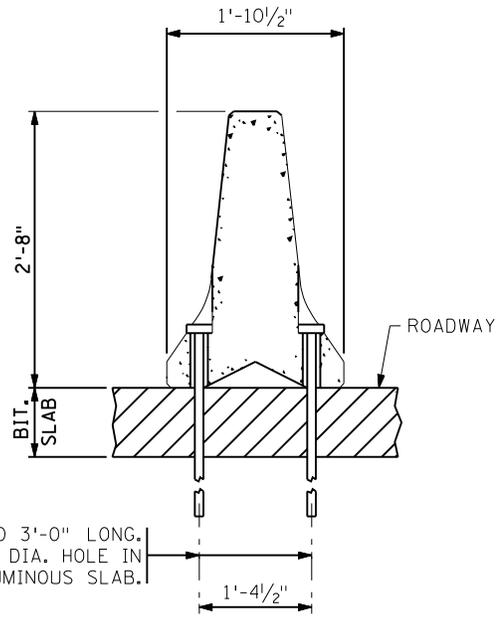
Daniel J. Waseyan
STATE BRIDGE ENGINEER

PORTABLE PRECAST BARRIER ANCHORAGE
(TEMPORARY USAGE IN LIMITED BARRIER DISPLACEMENT AREAS)

B920

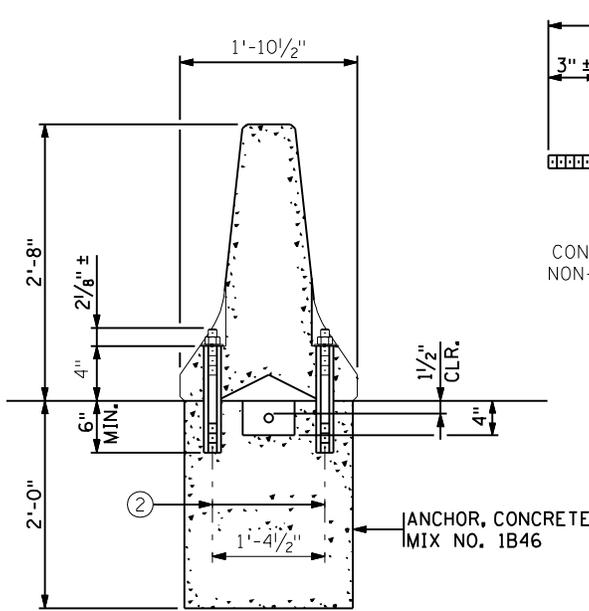


SECTION THROUGH BARRIER
CONCRETE PAVEMENT LOCATIONS

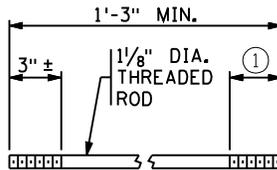


SECTION THROUGH BARRIER
BITUMINOUS PAVEMENT LOCATIONS

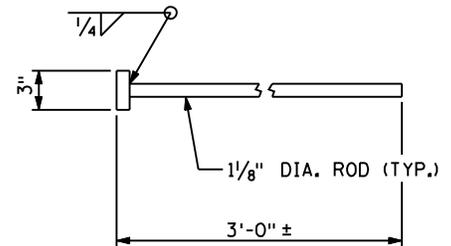
CL 1/8" DIA. ROD 3'-0" LONG.
DRILL 1/8" DIA. HOLE IN
BITUMINOUS SLAB.



SECTION THROUGH BARRIER ③
NON-PAVEMENT LOCATIONS



ANCHOR ROD
CONCRETE PAVEMENT AND
NON-PAVEMENT LOCATIONS



ANCHOR ROD
BITUMINOUS PAVEMENT LOCATIONS

NOTES:

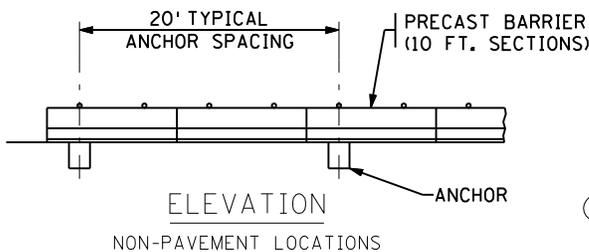
ALL STRUCTURAL STEEL AS PER Mn/DOT SPEC. 3306.

ALL EXPOSED HARDWARE IS TO BE GALVANIZED AS PER Mn/DOT SPEC. 3392.

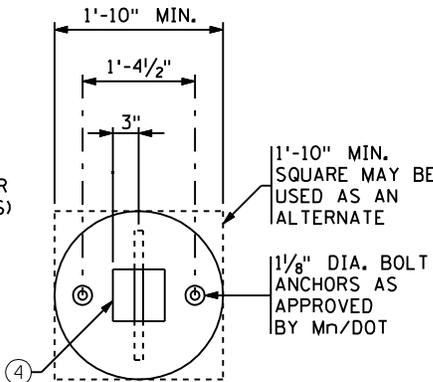
SEE STANDARD DETAIL 8337 FOR BARRIER DETAILS.

BACKFILL MATERIAL AROUND CONCRETE ANCHOR SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER.

- ① AS REQUIRED BY ANCHORAGES
- ② CL 1/8" DIA. THREADED RODS, NUTS, LOCKWASHERS AND PLATE WASHERS. SEE SPECIAL PROVISIONS. ULTIMATE PULLOUT STRENGTH = 16 KIPS MIN. PER ANCHOR.
- ③ THE SOILS ENGINEER SHALL BE CONSULTED WHEN THIS DETAIL IS USED WITHIN 5 FEET OF AN EXCAVATION.
- ④ 6" SQ. x 4" DEEP RECESS WITH 3/4" DIA. x 1'-3" LONG GALVANIZED BAR.



ELEVATION
NON-PAVEMENT LOCATIONS



PLAN

(CONCRETE ANCHOR)
APPROX. WEIGHT = 766 LBS. ROUND, 975 LBS. SQUARE

APPROVED: NOVEMBER 22, 2002

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

REVISION

DETAIL NO.

PORTABLE PRECAST BARRIER ANCHORAGE
(TEMPORARY USAGE ON ROADWAYS)

B922

Daniel J. Waseyan
STATE BRIDGE ENGINEER