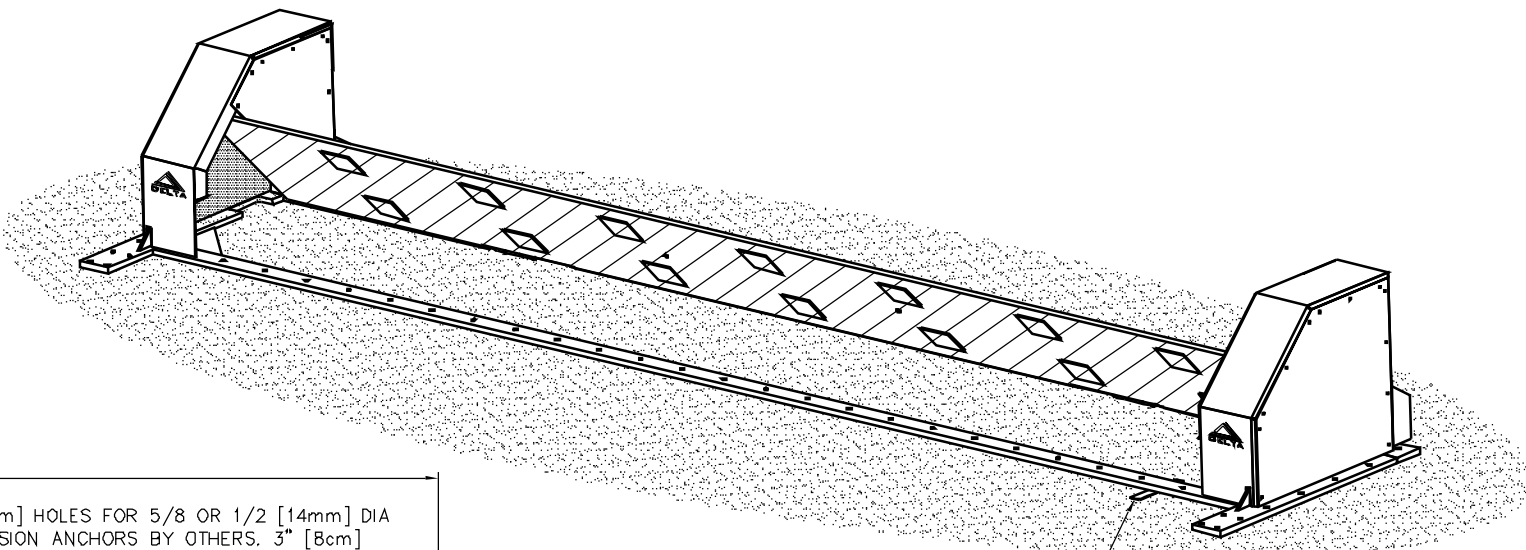


CONCRETE NOTES & RECOMMENDED SPECIFICATIONS:

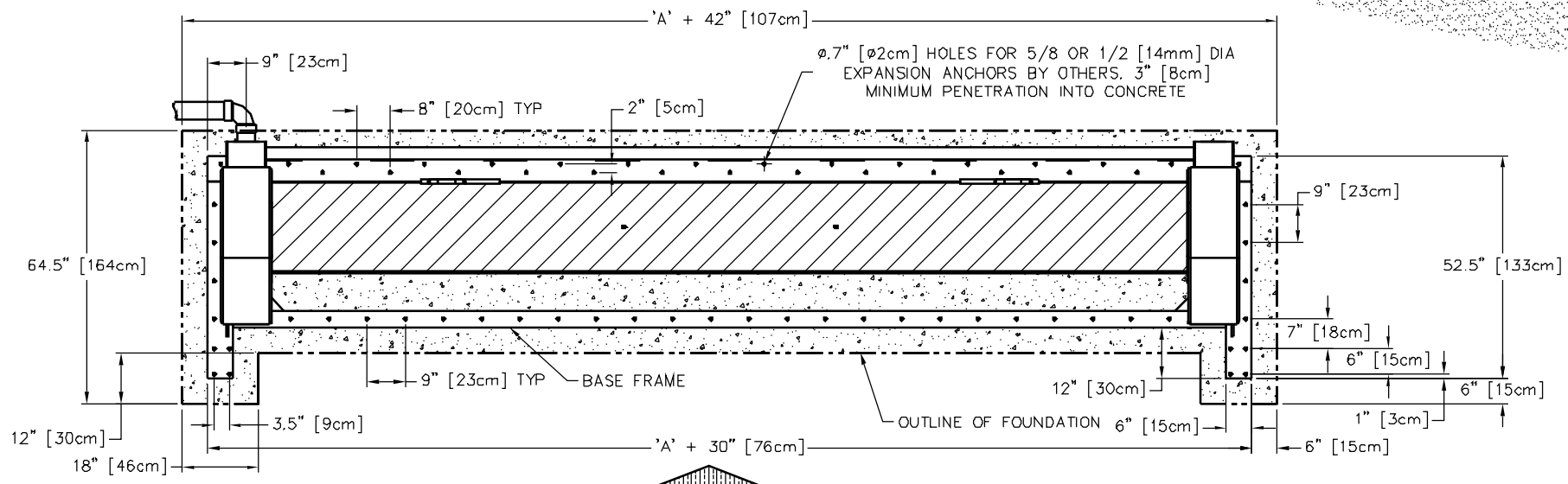
1. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.
2. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS, PROVIDED THE SIDES OF THE EXCAVATION ARE STABLE. WHERE CAVING OCCURS, PROVIDE SHORING. TYPE AND METHOD OF SHORING SHALL BE AT CONTRACTORS OPTION.
3. THE EXCAVATION SHALL BE KEPT DRY AT ALL TIMES. GROUND WATER, IF ENCOUNTERED, SHALL BE PUMPED FROM THE EXCAVATION.
4. CONCRETE SHALL BE LABORATORY DESIGNED, MACHINE MIXED, PRODUCING 3,000 PSI [20.68 MPA] AT 28 DAYS.
5. CEMENT SHALL BE TESTED PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE II ONLY.
6. AGGREGATES SHALL CONFORM TO ASTM C33 & B GRADE PER STANDARD SPECIFICATIONS. MAXIMUM SIZE OF AGGREGATE SHALL BE 1-1/2 INCHES (38mm).
7. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 (60,000 PSI OR 413.7MPA).
8. HOOKS AND BENDS SHALL CONFORM TO ACI STANDARD 318, LATEST REVISION. INSIDE DIAMETER OF HOOKS AND BENDS SHALL BE AT LEAST SIX (6) BAR DIAMETERS.
9. PROVIDE SPACER BARS, CHAIRS, SPREADERS, BLOCKS, ETC. AS REQUIRED TO POSITIVELY HOLD THE STEEL IN PLACE BEFORE CONCRETE IS POURED.
10. CONCRETE SHALL BE CONVEYED FROM THE MIXER TO FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OR LOSS OF MATERIALS.
11. CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND CORNERS OF FORMS.
12. CONCRETE SHALL BE MAINTAINED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST SEVEN (7) DAYS AFTER PLACEMENT. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.
13. WHERE EXTERIOR WALL FACE REQUIRES SHORING AND/OR FORMING, THE FORMS SHALL BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE. FORMS SHALL NOT BE REMOVED UNTIL THE CONCRETE IS SEVEN (7) DAYS OLD.
14. BACK FILLING SHALL BE DONE BY DEPOSITING AND TAMPING INTO PLACE CLEAN SAND OR POURING LEAN CONCRETE, TO 95% COMPACTION. WATER JETTING SHALL NOT BE ALLOWED.
15. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE ALLOWED.
16. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL NOT BE ALLOWED. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT AREAS AGAINST DAMAGE AND SHALL REPAIR OR PATCH ALL DAMAGED AREAS TO MATCH EXISTING IMPROVEMENTS.
18. CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA CLEAN AT ALL TIMES AND AT COMPLETION OF WORK, REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS AND LEAVE THE PREMISES IN A CLEAN CONDITION ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE.

BACK VIEW

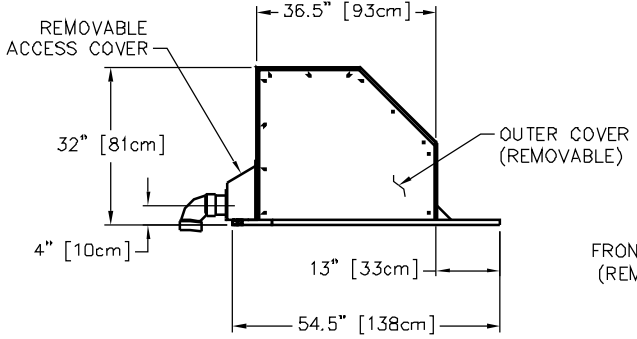
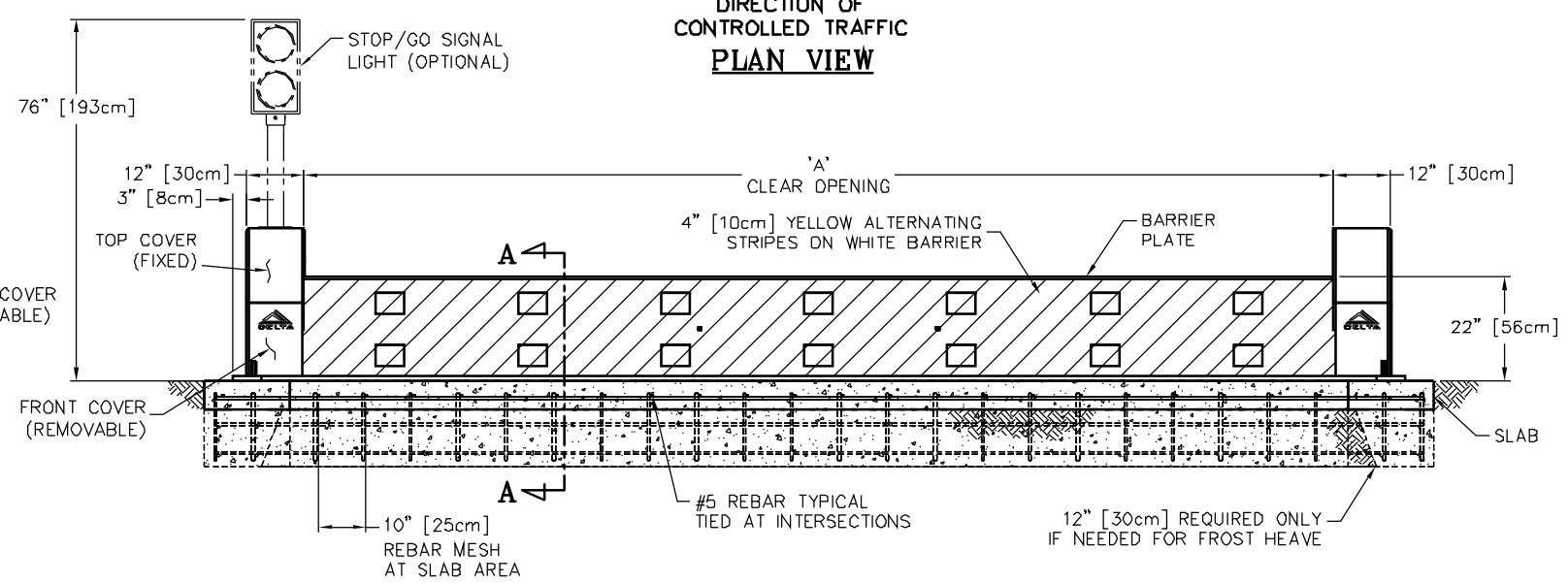
CONDUIT FEED (BY OTHERS) MAY ENTER FROM THE BOTTOM OR FROM EITHER SIDE



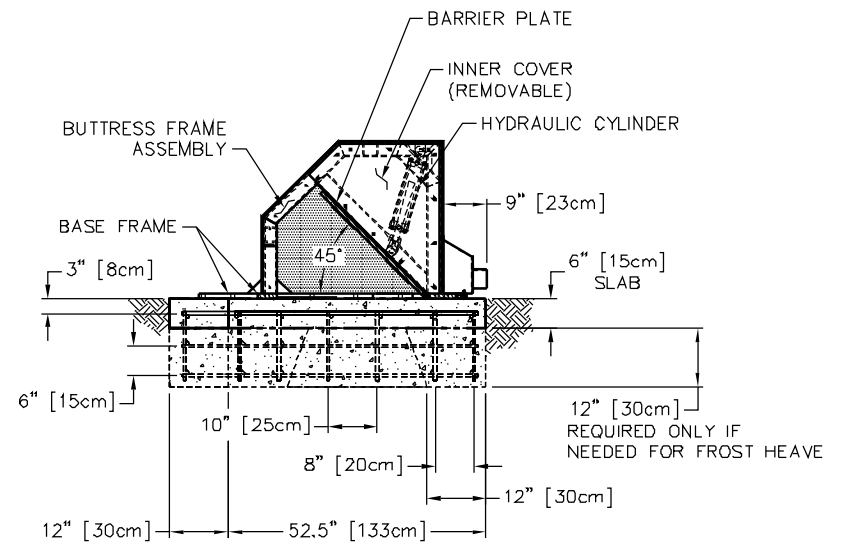
PROVIDE 1"D [3cm] X 2"W [5cm] TRENCH AT LOW POINT OF BARRIER FOR WATER EVACUATION



DIRECTION OF CONTROLLED TRAFFIC PLAN VIEW



LEFT ELEVATION



SECTION A-A

AVAILABLE OPTIONS:
 CONDUIT FEED MAY ENTER FROM EITHER SIDE OR BOTTOM
 LIMIT SWITCHES MAY BE ADDED FOR BARRIER POSITION INDICATION (STANDARD IS WITHOUT).
 STANDARD COLOR IS WHITE, OTHER COLORS AVAILABLE.
 YELLOW REFLECTIVE STRIPING IS STANDARD, OTHER COLOR(S) AND CONFIGURATIONS AVAILABLE.

CLEAR OPENING	APPROX WEIGHT
12.0 ft / 3.6 m	2394 lbs / 1086 kg
13.0 ft / 4.0 m	2514 lbs / 1140 kg
14.0 ft / 4.3 m	2629 lbs / 1193 kg
15.0 ft / 4.6 m	2749 lbs / 1247 kg
16.0 ft / 4.9 m	2869 lbs / 1301 kg
17.0 ft / 5.2 m	2983 lbs / 1353 kg
18.0 ft / 5.5 m	3098 lbs / 1405 kg
19.0 ft / 5.8 m	3222 lbs / 1461 kg
20.0 ft / 6.1 m	3342 lbs / 1516 kg

NOTES:

OPTIONAL FEATURES INCLUDE

DESCRIPTION	PART NO.
A HEATER, 'W' WATTS @ 120 VOLTS	B3010
A HEATER, 'W' WATTS @ 240 VOLTS	B3011
B LIMIT SWITCH, FULLY DOWN	9072-3
C LIMIT SWITCH, FULLY UP	9072-2

ALL STEEL MEMBERS PER AISC STANDARDS WELDING DESIGN CRITERIA AWS D1.1, LATEST REVISION.
 ALL MILD STEEL COMPONENTS SANDBLASTED TO NEAR WHITE METAL AFTER FABRICATION AND PRIOR TO COATING.

REV.	DESCRIPTION	DATE	APPVD BY
B	ECO 2003-115	MP	030903
A	ECO 2003-102	MP	030630

DELTA SCIENTIFIC CORPORATION
 24901 WEST AVE. STAMFORD VALENCIA, CA 91355 U.S.A.
 (661) 257-1800 FAX (661) 257-0617

MODEL TW4030 GENERAL ARRANGEMENT SURFACE MOUNT ROADWAY BARRIER

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES

TOLERANCES:
 .X = ±.060/FT
 .XX = ±.030/FT
 .XXX = ±.010/FT
 ANGLES = ±.5°

SURFACE FINISH: 125

REMOVE ALL BURRS & BREAK SHARP EDGES .02 MAX

© 2002 ALL RIGHTS RESERVED

DRWN BY	DATE	DRAWING NO.	REV.
PROVOST	021205	90240	B

SCALE: 1:20 SHEET 1 OF 1