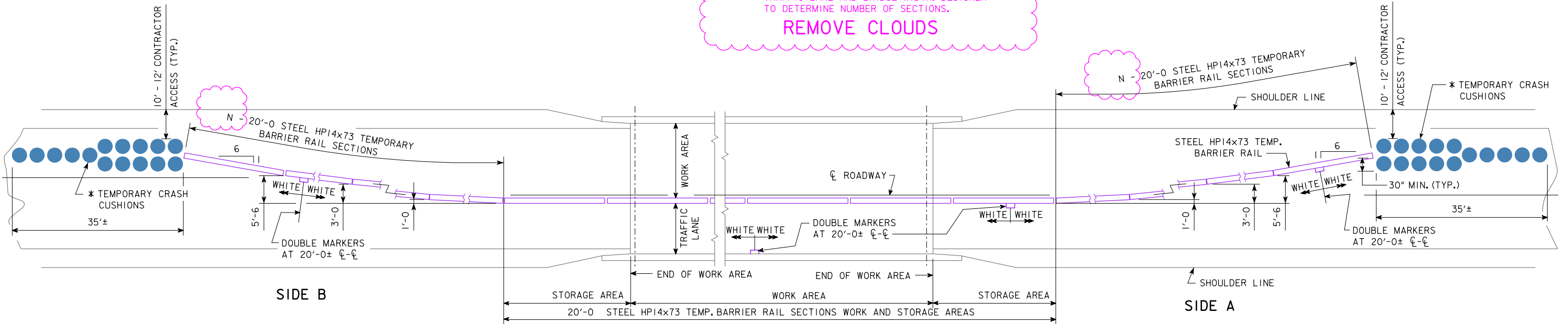


STEEL TEMPORARY BARRIER RAIL NOTES :

THE STEEL HP14x73 TEMPORARY BARRIER RAILS SHALL BE CONSTRUCTED AS DETAILED AND NOTED ON THE STANDARD ROAD PLANS BA-400 FOR TEMPORARY BARRIER RAIL (STEEL).
 HP14x73 SECTIONS ARE TO BE JOINED BEFORE P.C. CONCRETE FILL IS PLACED. HP SECTIONS MAY BE JOINED BY BUTT WELDS ON BOTH EXTERIOR FACES AS DETAILED OR BY OTHER MEANS APPROVED BY THE ENGINEER. HP SECTIONS SHALL BE FREE FROM EXCESSIVE SWEEP AND CAMBER; STRAIGHTENING MAY BE REQUIRED BY THE ENGINEER IN ORDER TO PRODUCE A STABLE BARRIER.
 CONCRETE MIX FOR THE P.C. FILL MAY BE ANY IOWA D.O.T. CONSTRUCTION SPECIFICATION MIX OR MAY BE A COMMERCIAL READY-MIX WITH A MINIMUM F'C = 2500 P.S.I. THE P.C. FILL MAY BE DEPOSITED BY A METHOD ACCEPTABLE TO THE ENGINEER. LIMITS OF FILL SHOWN ARE APPROXIMATE AND MAY BE ROUGH OR SLUMPED DEPENDING ON THE METHOD OF BULKHEADING.
 REFER TO OTHER DETAILS, NOTES AND QUANTITY ITEMS, ELSEWHERE IN THESE PLANS FOR TRAFFIC CONTROL TO BE ESTABLISHED IN CONJUNCTION WITH THE TEMPORARY BARRIER RAIL.
 NO STATIONARY EQUIPMENT OR CONSTRUCTION MATERIAL IS TO BE PLACED IN FRONT OF THE TEMPORARY BARRIER RAIL AT ANY TIME.
 TRAFFIC MARKERS SHALL BE A RETRO-REFLECTIVE TYPE, IN ACCORDANCE WITH MATERIALS I.M. 486.06. THEY SHALL BE LOCATED AS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL MAINTAIN THE MARKERS AND SHALL PROMPTLY REPLACE ANY MISSING OR DAMAGED UNITS. ALL COSTS FOR FURNISHING, INSTALLING AND MAINTAINING MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR "TEMPORARY BARRIER RAIL, STEEL".
 CARE SHALL BE TAKEN IN MOVING THE STEEL TEMPORARY BARRIER RAIL FOR STAGE 2 CONSTRUCTION, SO THAT THE NEW CONCRETE OF STAGE 1 WILL NOT BE DAMAGED. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 THE STEEL HP 14x73 TEMPORARY BARRIER RAIL IS TO BE BID ON A LINEAL FOOT BASIS. THE NUMBER OF LINEAL FEET OF TEMPORARY BARRIER RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE BID FOR "TEMPORARY BARRIER RAIL, STEEL" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.
 ANCHORS ARE REQUIRED ONLY WHERE THE TEMPORARY BARRIER RAIL IS ADJACENT TO A DROP-OFF. WHEN ANCHORS ARE REQUIRED, SEE STANDARD ROAD PLANS BA-400 FOR TEMPORARY BARRIER RAIL (STEEL) FOR DETAILS. HOLES FOR CONCRETE ANCHORS MAY BE DRILLED AFTER POSITIONING THE TEMPORARY BARRIER RAIL.

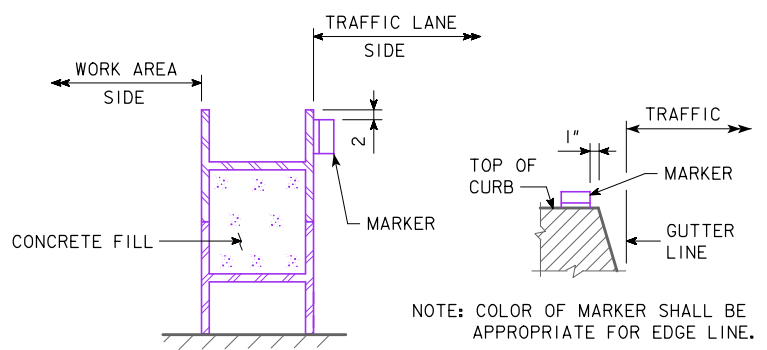
N = NUMBER OF 20'-0" TBR SECTIONS BASED ON TRAFFIC LANE AND BRIDGE WIDTH. DESIGNER TO DETERMINE NUMBER OF SECTIONS.
REMOVE CLOUDS



TEMPORARY BARRIER RAIL LAYOUT FOR TWO WAY TRAFFIC

NOTE:
 THE LAYOUT SHOWN IS FOR ONE STAGE OF CONSTRUCTION AND WOULD BE A MIRROR IMAGE FOR THE OTHER STAGE.

* NOTE:
 SEE STANDARD ROAD PLAN BA-500 FOR TEMPORARY CRASH CUSHIONS SAND BARREL.
 COST OF TEMPORARY CRASH CUSHIONS TO BE INCLUDED WITH ROADWAY BID ITEMS.



MARKER DETAILS

ESTIMATED QUANTITIES	
ITEM	AMOUNT
TEMPORARY BARRIER RAIL, STEEL	LF

NOTE :
 ALL CONNECTION MATERIAL IS TO BE INCLUDED IN THE PRICE BID FOR "TEMPORARY BARRIER RAIL, STEEL".

STEEL HP14x73 TEMP. BARR. RAIL

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. _____ OF _____ FILE NO. _____ DESIGN NO. _____

CORRECTION 02-14 - CHANGED THE TBR SECTIONS TO THE TEMPORARY STRUCTURES LEVEL. ENGLISH\MISCELLANEOUSBRIDGES.DGN 1056 - THIS SHEET REDRAWN 09-03.