

GENERAL NOTES

REMOVAL OF EXISTING SIGNS AND SUPPORTS

ALL SIGNS AND SUPPORTS ON THE MAIN ROADWAY, RAMPS, AND APPROACHES WITHIN WORK LIMITS OF THIS PROJECT, EXISTING AT THE TIME OF OPENING OF BIDS FOR THIS PROJECT, SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED ON THE PLAN.

TO ASSURE MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AT ALL TIMES, NO SIGNS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

FOUNDATIONS ENCOUNTERED IN THE REMOVAL OF SUPPORTS SHALL BE REMOVED IN CONFORMANCE WITH SPECIFICATIONS 202. REMOVAL OF EXISTING SIGNS AND SUPPORTS SHALL INCLUDE THE DISPOSAL OF ALL WASTE MATERIAL.

ALL SIGNS, SUPPORTS, AND ACCESSORIES REMOVED, SHALL BE STORED NEATLY WITHIN THE LIMITS OF THE PROJECT AT LOCATIONS APPROVED BY THE ENGINEER, FOR REMOVAL BY STATE FORCES.

LUMP SUM BID FOR THIS ITEM SHALL INCLUDE ALL NECESSARY EQUIPMENT AND LABOR REQUIRED TO REMOVE THE EXISTING SIGNS AND SUPPORTS AS INDICATED ABOVE.

APPROVED DRAWINGS

THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL SIX (6) COPIES OF SHOP DRAWINGS OR MATERIAL LISTS FOR THE FOLLOWING:

1. OVERHEAD SIGN SUPPORTS
2. SIGN FACE LAYOUT PLANS
3. SIGN PANELS AND ACCESSORIES
4. SIGN LIGHTING DETAILS
5. CATALOG CUTS, DESCRIPTIONS OR SAMPLES OF FABRICATOR'S STANDARD ITEM AS SHOWN IN THE PLANS OR THEIR EQUAL FOR APPROVAL.

606 GUARD RAIL - AS PER PLAN

GUARD RAIL FOR THIS ITEM SHALL BE TYPE 4 WITH A POST SPACING OF 6'-3".

606 GUARD RAIL - STANDARD

GUARD RAIL FOR THIS ITEM SHALL BE TYPE 4 WITH A POST SPACING OF 12'-6".

MAINTENANCE OF TRAFFIC

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING PAVEMENT WITHOUT INTERRUPTION DURING CONSTRUCTION OF THE WORK EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SET UP AND OPERATE HIS EQUIPMENT IN SUCH A MANNER AS TO ENCRONCH UPON THE TRAVELED WIDTH OF THE PAVEMENT TO A MINIMUM EXTENT.

SEE SHEET NO. 5 FOR SPECIFIC DETAILS.

RESTORATION OF DISTURBED AREAS

THE CONTRACTOR SHALL REPLACE SEEDED AND SODDED AREAS, PAVED SHOULDERS, AND ALL OTHER DISTURBED SURFACES TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE WORK WAS STARTED. ALL REPLACEMENTS SHALL BE DONE IN ACCORDANCE WITH THE PERTINENT SPECIFICATION ITEMS AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL RESTORATION WORK, INCLUDING MATERIALS, EQUIPMENT, LABOR, INCIDENTALS AND DISPOSAL OF ALL SURPLUS MATERIALS, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ITEMS 816.

ROCK EXCAVATION

IN CASES WHERE SOLID ROCK IS ENCOUNTERED FOR SIGN SUPPORT FOUNDATIONS, THE DEPTH TO BE EXCAVATED BELOW THE ROCK SURFACE MAY BE DECREASED BY THE ENGINEER TO A MAXIMUM OF 35 PERCENT.

SIGN BRACKETS, FIXTURE SUPPORT ARMS, AND ENCLOSURE MOUNTING BRACKETS FOR EXISTING OVERHEAD STRUCTURES

816 SIGN BRACKETS

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING SIGN BRACKETS ON THE EXISTING OVERHEAD SIGN STRUCTURES.

THE BRACKETS SHALL BE A 4" ALUMINUM I @ 2.64 LBS., TYPE 1a, AND OF THE LENGTH SHOWN ON THE ELEVATION DRAWINGS FOR THE STRUCTURE

THE PRICE BID PER LIN. FOOT SHALL INCLUDE THE FURNISHING, FABRICATING, U-BOLTS, AND THE NECESSARY LABOR TO MOUNT THE BRACKETS ON THE STRUCTURES.

816 FIXTURE SUPPORT ARM "G"

FIXTURE SUPPORT ARM "G" SHALL BE AS DETAILED ON SHEET NO. 57 & 58.

UNIT PRICE BID SHALL INCLUDE MATERIAL, FASTENERS, DIAGONAL RODS BETWEEN ARMS, HARDWARE, AND LABOR NECESSARY TO MOUNT THE ARMS ON THE SIGN STRUCTURE.

816 ENCLOSURE MOUNTING BRACKETS

ENCLOSURE MOUNTING BRACKETS SHALL BE AS DETAILED ON SHEET NO. 56.

UNIT PRICE BID SHALL INCLUDE MATERIAL FASTENERS AND LABOR NECESSARY TO MOUNT THE BRACKETS ON THE SIGN STRUCTURE.

FIXTURE SUPPORT ARMS "G", ENCLOSURE MOUNTING BRACKET AND SIGN BRACKETS FOR PROPOSED OVERHEAD STRUCTURES

COST OF FURNISHING AND INSTALLING THE FIXTURE SUPPORT ARM "G", SIGN BRACKETS AND THE ENCLOSURE MOUNTING BRACKET WITH MOUNTING HOLES AND HARDWARE, (SEE SHEETS 56, 57 AND 58) SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

STRUCTURAL SIGN SUPPORTS QUANTITIES

QUANTITIES FOR ITEM 816 STRUCTURAL BEAM SUPPORTS APPEARING IN THE SUMMARY TABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT SUPPORT LENGTHS PRIOR TO FABRICATION AND GALVANIZING OF SUPPORTS. DETAILS FOR PLAN QUANTITIES AND ALTERNATE DETAILS ARE SHOWN ON SHEET NO. 140.

OVERHEAD SIGN SUPPORTS

ALL COMPONENTS OF THE OVERHEAD SIGN SUPPORTS, 816, SHALL BE STEEL, EXCEPT THE TRUSS SPAN AND ACCESSORIES TO THE 816, NO.7 SERIES WHICH SHALL BE ALUMINUM.

FOR SPECIFIC DETAILS AND MATERIALS SEE SHEETS NO. 67 THROUGH 74.

ERECTION OF No. 7 SERIES BOX TRUSS AND SIGNS.

The overhead trusses for the No. 7 series shall not be erected upon their supports until the signs are available. A truss and its individual signs shall be erected the same day.

GALVANIZED SUPPORTS

THE STRUCTURAL STEEL BEAM SUPPORTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123. ALL BOLTS, NUTS, PLAIN AND LOCK-WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A - 153, EXCEPT WHERE ALUMINUM OR STAINLESS STEEL IS REQUIRED.

816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS

PAVEMENT FOR THIS ITEM SHALL BE BASED ON PLAN DIMENSIONS (OR DIMENSIONS AS MODIFIED BY THE ENGINEER) IN LIEU OF PLAN QUANTITIES AS SPECIFIED IN SUPPLEMENTAL SPECIFICATIONS 816. PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

ALPHABETS AND LETTER SPACING

SIGN LETTERING, WHEN INDICATED ON THE PLANS AS "INTERSTATE" SHALL BE DESIGNED IN ACCORDANCE WITH "THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS MANUAL" FOR SIGNING OF INTER-STATE HIGHWAYS, 1961 EDITION.

SIGN LETTERING, WHEN INDICATED ON THE PLANS AS A SERIES TYPE SUCH AS SERIES D, SERIES E, ETC., SHALL BE DESIGNED IN ACCORDANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS OF THE BUREAU OF PUBLIC ROADS". INFORMATION PERTAINING TO INTER-LETTER SPACING CHARTS OR GUIDES MAY BE OBTAINED FROM THE OHIO DEPARTMENT OF HIGHWAYS, BUREAU OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO. WHEN THE LETTER SPACING IS NOT SHOWN ON THE SIGN DRAWING, IT SHALL BE INCREASED OR DECREASED PROPORTIONALLY SO THAT THE LEGEND OCCUPIES THE DIMENSION INDICATED.

SIGN DESIGNS SHOWING CROSS-HATCHED AREAS INDICATE THAT THE LEGEND THEREIN WILL VARY IN ACCORDANCE WITH THAT SHOWN ON THE ROADWAY ALIGNMENT SHEETS.

COPIES OF THE ABOVE REFERENCE ARE ON FILE IN THE OFFICE OF THE DEPARTMENT OF HIGHWAYS, BUREAU OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO, 43215.

ARROWS

ARROWS SHOWN ON SIGN DESIGN DRAWINGS IDENTIFIED AS A-1, B-1, C-1, ETC., REFER TO THE ARROW DESIGNS SHOWN ON SHEET NO. 89.

816 SPECIAL STRUCTURAL CONNECTIONS

THIS ITEM SHALL INCLUDE ALL NECESSARY MATERIALS, HARDWARE, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO FABRICATE AND ERECT SIGN SUPPORTS ON THE SIDE OF EXISTING ROADWAY BRIDGES AS DETAILED ON SHEET NO. 74. MEASUREMENT AND PAYMENT SHALL BE MADE PER "EACH" SIGN LOCATION.

816 STRUCTURAL SUPPORTS, 6 LB BEAM, AS PER PLAN

FOR DETAILS OF THIS ITEM, SEE SHEET NO. 80.

SQUARE SEAMLESS TUBULAR POST MATERIAL SHALL BE MILD STEEL CONFORMING TO A5A 1020 STEEL, MINIMUM YIELD STRENGTH 33000 PSI, ULTIMATE YIELD 55000 PSI.

WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND HARDWARE NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

BASIS OF PAYMENT SHALL BE FOR STRUCTURAL SUPPORTS 6 LB. BEAM, AS PER PLAN, PER LINEAL FOOT MEASURED BY TOTAL LENGTH OF COMBINATION BEAM FROM END TO END.

ILLUMINATED TYPE "G" SIGNS

TYPE "G" SIGN SHALL BE ALUMINUM EXTRUSHEET WITH GREEN TYPE F REFLECTIVE SHEETING AND WHITE DEMOUNTABLE COPY, REFLECTIVE UNIT TYPE, WITH EXTERNAL ILLUMINATION. LIGHT FIXTURES SHALL BE AT THE BOTTOM OF THE SIGN. THE ADDITIONAL SIGN AREA (GLARE SHIELD) BELOW THE BOTTOM OF THE DEMOUNTABLE BORDER SHALL BE COVERED WITH GREEN NON-REFLECTIVE SHEETS, SUCH AS SCOTCHCAL, TEDLAR OR AN APPROVED EQUAL. AREA OF GLARE SHIELD IS NOT INCLUDED IN THE QUANTITY OF TYPE "G" SIGNS, BUT PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR TYPE "G" SIGNS.

SIGN SUPPORT SYMBOLS

SIGNS ON ONE SUPPORT	
SIGNS ON TWO SUPPORTS	
SIGNS ON THREE SUPPORTS	
SINGLE SUPPORT OVERHEAD STRUCTURES	
DOUBLE SUPPORT OVERHEAD STRUCTURES	
SIGNS, BACK TO BACK ON ONE SUPPORT	
SIGNS, BACK TO BACK ON TWO SUPPORTS	

IDENTIFICATION OF TRAFFIC SIGNS

IDENTIFICATION OF ALL TRAFFIC SIGNS IS BY REFERENCE NUMBER OR CODE NUMBER. REFERENCE NUMBERS REFER TO THE SIGN DESIGN BEARING THE SAME NUMBER. CODE NUMBERS REFER TO STANDARD DRAWINGS WITH THE SAME NUMBER.

ORIENTATION OF SIGN FACES

SIGNS SHALL BE ERECTED SO THAT THE FACE OF THE SIGN IS VERTICAL AND AT A RIGHT ANGLE TO THE CENTER OF THE LANE WHICH SERVES EXCEPT WHERE OTHERWISE NOTED. WHERE LANES DIVIDE AND ON SHARP HORIZONTAL CURVES, SIGN FACES SHALL BE PLACED PERPENDICULAR TO THE TANGENT POINT OF THE CURVE AT THE STATION LOCATION, SO AS TO BE MOST EFFECTIVE BOTH DAY & NIGHT.

DIMENSIONS

DIMENSIONS OF SIGNS ARE INDICATED ON THE PLANS WITH THE HORIZONTAL DIMENSION SHOWN FIRST, THEN THE VERTICAL DIMENSION.

ALL TYPE G SIGNS SHALL HAVE A 1'-0" GLARE SHIELD ON THE BOTTOM AS SHOWN ON SHEET 58.

CONSTRUCTION LAYOUT STAKES

SEE NOTE IN PROPOSAL FOR DESCRIPTION OF WORK INCLUDED IN THIS LUMP SUM PAY ITEM.

THE LOCATION FOR ALL SIGNS SHALL BE CHECKED BY PROJECT ENGINEER AND/OR DIVISION TRAFFIC ENGINEER BEFORE ANY INSTALLATIONS ARE MADE.