

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIER	GEN.
SP514A	LUMP	LUMP SUM	FIELD CLEANING AND REPAIR OF DAMAGED COATING, SYSTEM IZEU	LUMP			
SP514	LUMP	LUMP SUM	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM UUU	LUMP			
SP514	LUMP	LUMP SUM	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM UUU	LUMP			
SP514	LUMP	LUMP SUM	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM UUU	LUMP			
SP514	LUMP	LUMP SUM	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM UUU	LUMP			
SP525A	LUMP	LUMP SUM	WORKER PROTECTION				LUMP
SP525A	20	EACH	PROTECTIVE CLOTHING/EQUIPMENT SET				20
SP525A	LUMP	LUMP SUM	ESTABLISH REGULATED AREAS				LUMP
SP525A	LUMP	LUMP SUM	PAINT WASTE/HAZARDOUS WASTE CLASSIFICATION, HANDLING AND DISPOSAL				LUMP
SP525A	LUMP	LUMP SUM	CONTAINMENT SYSTEM				LUMP

STRUCTURE REMOVED OR PORTIONS OF STRUCTURES REMOVED

ALL DEMOLITION OPERATIONS PERFORMED UNDER ITEM 202 SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF THE OTC SPECIAL PROVISION SP 525A LEAD PAINT REMOVAL, WORKER/ENVIRONMENTAL PROTECTION AND WASTE HANDLING.

PAINTING OF STRUCTURAL STEEL

THE NEW STRUCTURAL STEEL SHALL BE TOTALLY SHOP PAINTED WITH ALL COATS IN ACCORDANCE WITH "SP 514A, TOTAL SHOP PAINTING - SYSTEM IZEU". ADDITIONALLY, THE CARRYING GIRDER AREA WHERE THE NEW POST TENSIONED CONCRETE CROSSBEAM IS TO BE ATTACHED SHOULD BE TREATED WITH COLD APPLIED GALVANIZING. THE GALVANIZING AND THE THREE COAT SHOP APPLICATION OF THE PAINT IS INCLUDED FOR PAYMENT UNDER "ITEM 513, STRUCTURAL STEEL, A572-50, AISC CATEGORY III, AS PER PLAN".

ANY FIELD TOUCH UP OF DAMAGED AREAS SHALL IN INCLUDED WITH ITEM "SP 514A, FIELD CLEANING AND REPAIR OF DAMAGED COATING, SYSTEM IZEU".

SURFACE PREPARATION OF STEEL PRIOR TO PAINTING

THE CONTRACTOR'S ATTENTION IS CALLED TO SPECIAL PROVISIONS SP 514A AND SP 514B PART 3 - EXECUTION, SECTION II SURFACE PREPARATION, SPECIFICALLY PARAGRAPH A, WHICH ADDRESSES SURFACE PREPARATION.

ALL SHOP EDGES SUCH AS THOSE CREATED BY FLAME CUTTING AND SHEARING OF STEEL SHALL BE ADDRESSED ACCORDING TO THESE SPECIFICATIONS IN ORDER TO ENSURE A PROPER PAINT SYSTEM. BREAKING THE EDGE CAN BE ACCOMPLISHED BY A SINGLE PASS OF A GRINDER IN ORDER TO FLATTEN THE EDGE. HOWEVER, CARE SHALL BE TAKEN TO ENSURE THAT DURING THE REMOVAL OPERATION NEW SHARP EDGES ARE NOT CREATED. THIS REQUIREMENT IS APPLICABLE TO ALL STRUCTURES WHETHER OR NOT IT IS SPECIFICALLY ADDRESSED IN THE CONTRACT DRAWINGS.

NO SEPARATE PAYMENT FOR ANY GRINDING REQUIRED TO CONFORM TO THE SPECIFICATIONS WILL BE MADE UNDER SP 514A. PAYMENT FOR THE SHOP APPLIED COATING SYSTEM IS INCLUDED IN THE COMPLETED WORK OF ITEM 513 - STRUCTURAL STEEL (OF THE TYPE SPECIFIED) PER PART 4 - MEASUREMENT AND PAYMENT OF SPECIAL PROVISION SP 514A.

LIKEWISE, NO SEPARATE PAYMENT FOR THE PREPARATION OF THE STRUCTURAL STEEL TO CONFORM TO THE ABOVE REQUIREMENTS WILL BE MADE UNDER SP 514B. PAYMENT FOR THE APPLICATION OF THE SHOP PRIMER IS INCLUDED WITH THE WORK OF ITEM 513 - STRUCTURAL STEEL (OF THE TYPE SPECIFIED). THEREFORE, ALL WORK ASSOCIATED WITH PREPARATION OF THE STEEL PRIOR TO PAINTING IS ALSO INCLUDED IN ITEM 513.

RECORD DRAWING		12/97	
NO.	REVISION	BY	DATE
OHIO TURNPIKE COMMISSION			
ESTIMATED QUANTITIES & ADDITIONAL STRUCTURAL GENERAL NOTES			

DATE: JAN. 1996 SCALE: N.T.S.

GENERAL NOTES (CONTINUED)

PARAPET FORMS

FORMS FOR THE BRIDGE PARAPETS AND ABUTMENT SLAB SIDE EDGES SHALL BE IN ACCORDANCE WITH 508.02 AND THE FOLLOWING:

WHEN WOOD FORMS ARE USED THEY SHALL PRODUCE A SMOOTH SURFACE OF UNIFORM TEXTURE AND COLOR SUBSTANTIALLY EQUAL TO THAT WHICH WOULD BE OBTAINED WITH THE USE OF NEW PLYWOOD CONFORMING TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY PRODUCT STANDARD PSI FOR EXTERIOR B-B CLASS I PLYWOOD.

FORMS SHALL BE OF A CONSTRUCTION WHICH WOULD ALLOW FOR THEIR REMOVAL WITHIN 24 HOURS OF THE CONCRETE PLACEMENT WITHOUT CAUSING DAMAGE TO THE CONCRETE.

SLIP FORMING OF THE PARAPETS SHALL NOT BE ALLOWED.

GROUT CLEANING

ALL BARRIER SURFACES AND SLAB EDGES SHALL BE GROUT CLEANED IN ACCORDANCE WITH 511.15 USING WHITE PORTLAND CEMENT.

STRUCTURAL STEEL ERECTION/SHOP ASSEMBLY

IN ACCORDANCE WITH SP 614, MAINTAINING TRAFFIC, THE ROADWAYS OF THE OHIO TURNPIKE MAY BE CLOSED FOR THE ERECTION OF THE STRUCTURAL STEEL, PROVIDED THE DURATION OF THE CLOSURES DOES NOT EXCEED TEN (10) MINUTES INTERVALS. TO INSURE THE CLOSURES DO NOT EXCEED THE SPECIFIED INTERVALS, THE CARRYING GIRDERS SHALL BE ERECTED SEPARATELY.

THE ABOVE ERECTION REQUIREMENTS SHALL APPLY UNLESS ALTERNATE PROCEDURES ARE APPROVED BY THE CHIEF ENGINEER.

IN ADDITION TO THE ABOVE REQUIREMENTS, TO INSURE PROPER FIT-UP SO AS TO MINIMIZE ERECTION TIME, THE STRUCTURE SHALL BE SHOP ASSEMBLED IN ACCORDANCE WITH CMS 513.20, SHOP ASSEMBLY.

ALL APPLICABLE SECTIONS OF CMS 501.06, APPROVAL OF CONSTRUCTION PLANS, SHALL APPLY TO THIS PROJECT. PLANS FOR THE PROPOSED ERECTION AND HANDLING PROCEDURES SHALL INCLUDE THE PROPOSED LOCATION OF ALL EQUIPMENT.

A PRE-STRUCTURAL STEEL ERECTION MEETING SHALL BE SCHEDULED PRIOR TO THE STRUCTURAL STEEL ERECTION.

PAYMENT FOR LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 513 STRUCTURAL STEEL, A572-50, CATEGORY III, AS PER PLAN.

FENCE POSTS SHALL NOT BE SET CLOSER THAN 8" FROM END OF PARAPET.

FENCE POST ANCHORS: THE CONTRACTOR SHALL GIVE SPECIAL ATTENTION TO FENCE ANCHOR STUD PROJECTION ABOVE TOP OF PARAPET, PROVIDE FOR BASE PLATE THICKNESS, WASHER THICKNESS, AND A POSITIVE "STICK THROUGH" AT END OF STUD.

PROPOSED WORK

MAJOR WORK ITEMS INCLUDE (BUT SHALL NOT BE LIMITED TO) THE FOLLOWING:

1. CLOSING ROUTE 88 BRIDGE OVER THE OHIO TURNPIKE TO ALL TRAFFIC.
2. IMPLEMENTATION OF MAINLINE MAINTENANCE OF TRAFFIC AS PER ITEM SP 614 MAINTAINING TRAFFIC AND GENERAL MOBILIZATION.
3. CONSTRUCTING A NEW PIER NO. 2 AT CENTERLINE OF TURNPIKE.
4. FURNISHING AND INSTALLING TEMPORARY SUPPORTS OF SUPERSTRUCTURE AS PER ITEM SPECIAL JACKING AND TEMPORARY SUPPORT OF BRIDGE SUPERSTRUCTURE.
5. RAISING THE BRIDGE SUPERSTRUCTURE BY JACKING ALL BEAMS AT ALL ABUTMENTS AND PIERS SIMULTANEOUSLY AS PER ITEM SPECIAL JACKING AND TEMPORARY SUPPORT OF BRIDGE SUPERSTRUCTURE. THE CONTRACTOR SHALL RAISE THE SUPERSTRUCTURE SUFFICIENTLY TO MODIFY AND RECONSTRUCT THE EXISTING ABUTMENTS AND OUTSIDE PIERS.
6. REMOVAL OF EXISTING ABUTMENT SLAB, FENCE, PARAPETS, ABUTMENT BACKWALLS AND ABUTMENT SEATS AS SHOWN IN THE PLANS.
7. INSTALLATION OF NEW ABUTMENT BACKWALLS, ABUTMENT SLABS, BEARING SEAT, STRUCTURAL EXPANSION JOINTS, PARAPETS AND FENCE INCLUDING NEW OR SALVAGED ELASTOMERIC BEARINGS.
8. MODIFICATIONS TO THE EXISTING OUTSIDE PIERS AS SHOWN IN THE PLANS INCLUDING NEW BEARINGS OR RESETTING OF EXISTING EXPANSION BEARING DEVICES.
9. LOWERING THE BRIDGE SUPERSTRUCTURE AT ALL ABUTMENTS AND PIERS SIMULTANEOUSLY TO THE NEW PROFILE GRADE ELEVATIONS, AS SHOWN IN THE PLANS, AS PER ITEM SPECIAL JACKING AND TEMPORARY SUPPORT OF BRIDGE SUPERSTRUCTURE.
10. FURNISHING AND INSTALLING TWO (2) NEW OUTSIDE CARRYING GIRDERS INCLUDING BEARINGS AND CROSS TIES TO THE EXISTING FASCIA BEAMS.
11. FURNISHING AND INSTALLING TWO (2) POST-TENSIONED CONCRETE CROSS BEAMS AS SHOWN IN THE PLANS AS SPECIFIED IN ITEM SPECIAL POST-TENSIONED CONCRETE CROSS BEAMS.
12. REMOVAL OF TWO (2) EXISTING INSIDE PIERS INCLUDING BEARINGS AND FOOTINGS. EXISTING PILES TO REMAIN.
13. REMOVAL OF JACKING AND TEMPORARY SUPPORT OF BRIDGE SUPERSTRUCTURE.
14. PATCHING CONCRETE AS INDICATED IN THE PLANS.
15. FURNISHING AND INSTALLING CRUSHED AGGREGATE SLOPE PROTECTION.
16. SEALING OF CONCRETE SURFACES.
17. GENERAL CLEAN-UP AND DEMOBILIZATION.
18. REMOVAL OF MAINLINE MAINTENANCE OF TRAFFIC.
19. OPEN ROUTE 88 BRIDGE TO NORMAL TRAFFIC.

1	RECORD DRAWING	m.s.	12/97
NO.	REVISIONS	BY	DATE
OHIO TURNPIKE COMMISSION GENERAL NOTES (CON'T.) STATE ROUTE 88 OVER OHIO TURNPIKE (199.5)			
 ms consultants, inc. YOUNGSTOWN, OHIO			
DESIGNED:	A.C.	CHECKED:	W.H. DATE: 2-2-96
DRAWN:	R.A.M.	IN CHARGE:	D.F.S. SCALE: N.T.S.