GENERAL NOTES

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.

THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER. BAR SIZE #4 #5 #8

SPLICE LENGTH FOR CLASS D CONCRETE 1'-3" 1'-6" 3'-8"

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

E.F. = EACH FACE F.F. = FAR FACE N.F. = NEAR FACE

CERTAIN DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM THE "AS CONSTRUCTED PLANS". THESE DIMENSIONS MAY BE ADJUSTED TO MEET THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL SAW WATER, CORING WASTE, CONCRETE WASHOUT, AND OTHER CONSTRUCTION DEBRIS SHALL BE COLLECTED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, AT NO ADDITIONAL COST TO THE PROJECT. UNDER NO CIRCUMSTANCES SHALL SUCH MATERIAL BE ALLOWED TO ENTER ANY NATURAL OR MANMADE WATER WAY OR STORM SEWER.

DESIGN DATA

AASHTO, 16th EDITION WITH CURRENT INTERIMS REINFORCED CONCRETE:

REINFURCED CONCRETE:

CLASS D CONCRETE: $f'_{c} = 4,500 \text{ psi}$

REINFORCING STEEL: $f_v = 60,000 \text{ psi}$

THE GROUT USED FOR PATCHING COLUMNS SHALL BE A MORTAR MIX. PORPORTIONED BY VOLUME:

A. ONE PART PORTLAND CEMENT

B. TWO (2) TO THREE (3) PARTS FINE AGGREGATE, CONFORMING TO THE REQUIREMENTS OF ASTM C-144

A LATEX ADMIXTURE THAT CONFORMS TO THE REQUIREMENTS
OF ASTM C-1059, TYPE. II, (NON-REDISPERSABLE).
A MINIMUM OF 12% LATEX SOLIDS BY WEIGHT OF CEMENT SHALL BE

ADDED TO THE MORTAR MIX.

D. ENOUGH WATER TO PROVIDE A PLASTIC WORKABLE MIX.

APPLY CONCRETE SEALER PRIOR TO PATCHING OF COLUMNS.

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	F-16-ER	F-17-GA	F-16-FL	E-16-FJ	E-17-GE	TOTAL
210	REBUILD PORTIONS OF PRESENT STRUCTURE	EACH	2	2	1			5
601	CONCRETE (PATCHING)	SQ. FT.				160	135	295

CONCRETE PATCHING FOR COLUMNS. THE WORK AREAS AND QUANTITIES ARE APPROXIMATE AND SHALL BE ADJUSTED ACCORDING TO THE CONDITIONS AS DIRECTED BY THE ENGINEER.

INDEX OF DRAWINGS

Dwg. No. B 1 GENERAL INFORMATION- SUMMARY OF QUANTITIES

Dwg. No. B 2 GENERAL LAYOUT F-16-ER

Dwg. No. B 3 GENERAL LAYOUT F-17-GA

Dwg. No. B 4 GENERAL LAYOUT F-16-FL

Dwg. No. B 5 GENERAL LAYOUT E-16-FJ

Dwg. No. B 6 GENERAL LAYOUT E-17-GE

Dwg. No. B 7 BEARING REPAIR DETAILS

BRIDGE LOCATIONS

F-16-ER (US OVER GARRISON ST.)
F-17-GA (US 40 OVER TOLLGATE CREEK)
F-16-FL (US 6 OVER SHERIDAN BLVD.)

E-16-FJ (US 287 OVER I-70)

E-17-GE (I-70 OVER SAND CREEK)

WORK DESCRIPTION

THIS WORK CONSISTS OF INSTALLING CORBELS UNDER CERTAIN GIRDERS OF THREE (3) BRIDGES, WHICH INCLUDES SANDBLASTING REINFORCING STEEL, CLEANING SURFACES TO RECEIVE CONCRETE, PATCHING OF PIER CAP FACES AS DIRECTED BY THE ENGINEER, INSTALLING CORBELS PER PLANS AND DETAILS, AND PAINTING OF STEEL AS DIRECTED BY THE ENGINEER.

THIS WORK ALSO CONSISTS OF REPAIRING SPALLING ON CERTAIN PIER COLUMNS ON TWO (2) BRIDGES AND INCLUDES

SANDBLASTING REINFORCING STEEL, CLEANING CONCRETE SURFACES TO RECEIVE CONCRETE, REPLACING OF REINFORCING STEEL AS NEEDED, AND PATCHING OF COLUMNS.



CROSS REFERENCE DRAWING NUMBER
(IF BLANK, REFERENCE IS TO SAME SHEET)

SECTION OR DETAIL IDENTIFICATION

٦	Computer File Information	- 1	She	et Revisions		Colorado Department of Transportation	As Constructed	GENERAL	INFORMATION	Project No./Code
	Creation Date: July 2002 Initials: LS					· · · · · · · · · · · · · · · · · · ·				Troject New Seas
],	Last Modification Date: 10/2002 Initials: AL PAYNE					DOT 4201 East Arkansas Avenue, Room 330 Denver, Colorado 80222-3400	No Revisions:	SUMMARY	OF QUANTITIES	1
7	Full Path: \\Bridge common\0224\maintenance\Region 6 repair					Phone: 303-757-9352 FAX: 303-757-9197	Revised:	Designer: L. Sanchez	Structure	
- 1	Drawing File Name: Reg. 6 Rep 0—sh1.dwg							Detailer: Al Payne	Numbers	
Į	Acad Ver. 2002i Scale: Units: English					Staff Bridge Branch	Void:	Sheet Subset:	Subset Sheets: B 1 of 7	Sheet Number
	, , , , , ,	4	! 5 "	1 6	1	7 8 9 1 10	7	19 1		



