STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED NOISE WALL REPAIR

F.A.I. ROUTE: 290 (INTERSTATE 290 - WB)

LOCATION 2

IMPROVEMENT BEGINS STA. 311+090.889

IMPROVEMENT ENDS

STA. 311+098.889

TWO LOCATIONS WEST OF WOLF ROAD **SECTION: 2004-003 I**

> **COOK COUNTY** C-91-146-04

LOCATION 1

IMPROVEMENT BEGINS STA. 311+050.889 IMPROVEMENT ENDS STA. 311+062.889

TRAFFIC DATA

2002 ADT = 186,800 POSTED SPEED LIMIT= 55 MPH R. 12 E. RANK PARK

PROVISO TOWNSHIP

LOCATION 1. GROSS LENGTH OF IMPROVEMENT = 40 FEET LOCATION 2. GROSS LENGTH OF IMPROVEMENT = 23 FEET

GROSS LENGTH OF IMPROVEMENT = 63 FEET

290 2004-003 I COOK CONTRACT NO. 62720

FAI SECTION



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION iden Modeen & DIRECTOR, DIVISION OF HIGHWAYS

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J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE

VILLAGE OF HILLSIDE

CONTRACT NO. 62720

c:BprojectsBstruct1Bi-290_noisewall.m32

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, SCOPE OF WORK, STATE STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	CURRENT SURVEY DATA
5	NOISE WALL REPAIR DETAIL (DETAILS)
6 - 13	EXISTING NOISE WALL DETAILS (FOR INFORMATION ONLY)
14	TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES, PARTIAL RAMP CLOSURES

LIST OF STATE STANDARDS

STANDARDS	DESCRIPTION
701400 - <i>0</i> 2	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401- <i>03</i>	LANE CLOSURE, MULTILANE FOR SPEED >= 45 MPH
702001- <i>05</i>	TRAFFIC CONTROL DEVICES

SCOPE OF WORK:

(NOT IN ORDER OF PREFERENCE)

- 1. REMOVE THE THREE UNITS (2-LOCATION 1 AND 1-LOCATION 2) OF DAMAGED NOISE WALL PANELS AND THEIR CAPS.
- 2.CUT AND REMOVE THE UPPER SECTION OF DAMAGED POST, DESIGNATED D-59, (W8 X 31). @ LOCATION 1
- 3. REMOVE 39'-0" OF THE DAMAGED BARRIER WALL. (AS SHOWN) (16'-0"- LOCATION 1 AND 23'-0" LOCATION 2)
- 4. PREPARE THE CUT SECTION OF D-59 FOR SPLICING TO A NEW W8 X 31 SECTION. (LOCATION 1)
- 5. SPLICE A NEW W8 X 31 SECTION OVER CUT SECTION OF D-59 USING A BUTT WELD AND ASSURING COMPLETE VERTICALITY AND PLUMBNESS OF THE NEW SECTION. (LOCATION 1)
- 6.STRAIGHTEN POSTS, D-58, D-65 AND D-66. (1-LOCATION 1 AND 2-LOCATION 2)
- 7.PAINT POSTS D-58, D-59, D-65 AND D-66 IN MATCHING COLORS WITH THE EXISTING POST'S COLOR, AS REQUIRED.
- 8.INSTALL THREE UNITS OF THE PRECAST NOISE WALL PANELS AND THEIR CAPS. (2-LOCATION 1 AND 1-LOCATION 2)
- 9. RECONSTRUCT THE 39'-0" SECTION OF BARRIER WALL. (AS SHOWN) (16'-0" LOCATION 1 AND 23'-0" LOCATION 2)
- 10. CLEAN THE CONSTRUCTION SITE, RESTORING THE SITE TO ITS ORIGINAL CONDITION AS CLOSE AS POSSIBLE.

CONTRACT NO. 62720

GENERAL NOTES:

- IN EXISTING PLANS CALL OUT W200 X 46 (METRIC) SECTION IS EQUIVALENT TO W8X31 (ENGLISH).
- 2. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM THE EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY AND APPROVED ADJUSTMENTS PRIOR TO THE CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 3. THE CONTRACTOR SHALL USE EXTREME CARE DURING THE NOISE WALL REPAIR SUCH THAT NO DAMAGE OCCURS ON ANY OTHER PART OF THE NOISE WALL. IF ANY DAMAGE OCCURS DURING THE REPAIR THEN THAT SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- 4. ALL THE REPLACED UNITS, SUCH AS BARRIER WALL, NOISE WALL PANELS, NOISE WALL PANEL CAPS, AND NOISE WALL POSTS, SHALL BE IDENTICAL IN DESIGN, PATTERN AND COLOR TO THE EXISTING UNITS.
- 5. THE DAMAGED UPPER PORTION OF THE D-59 POST IN LOC. 1 SHALL BE CUT AND REMOVED AFTER LEAVING A LOWER 12" STRAIGHT SECTION OF THE POST. CUTTING, REMOVAL AND DISPOSAL OF STEEL SECTION ARE INCLUDED IN THE COST OF FURNISHING AND ERECTING STRUCTURAL STEEL. THIS STRAIGHT SECTION SHALL BE USED FOR CLAMPING AND SHALL BE GROUND SMOOTH TO ASSURE A GOOD QUALITY BUTT WELD FOR SPLICING THE NEW W8 X 31 SECTION ON THE CUT SECTION OF THE D-59 POST. THE CUT SECTION SHALL RENDER A CUT SURFACE THAT SHALL ENSURE VERTICAL SPLICING OF THE NEW SECTION AND ASSURE THE FULL PLUMBNESS OF THE NEWLY SPLICED SECTION FOR THE INSTALLATION OF THE NEW PRECAST PANELS, PREPARING AND WELDING IS INCLUDED IN THE COST OF FURNISHING AND ERECTING STRUCTURAL STEEL.
- 6. THE SPLICING OF THE D-59 POST & LOCATION 1 SHALL CONFORM TO THE RELEVANT REQUIREMENTS OF SECTION 512 OF THE STANDARD SPECIFICATIONS.

 OTHER TYPES OF SPLICING MAY BE ALLOWED SUBJECT TO THE APPROVAL OF THE ENGINEER. ANY PROPOSAL BY THE CONTRACTOR TO USE AN ALTERNATE SPLICE METHOD MUST INCLUDE ADEQUATE DOCUMENTATION DEMONSTRATING THAT FULL TENSION, SHEAR AND BENDING CAPACITIES WILL BE MET AND IT WILL NOT INTERFERE WITH THE PANEL'S ERECTION. APPROPRIATE WELDER QUALAFICATIONS WILL BE REQUIRED FOR POSITIONS AND PROCESSES USED IN WELD SPLICING THE POST. NONDESTRUCTIVE TESTING OF COMPLETED WELDS WILL BE LIMITED TO VISUAL INSPECTION.
- THE CONTRACTOR SHALL WORK IN A FASHION SUCH AS TO CAUSE MINIMAL INCONVENIENCE AND DELAYS TO THE MOTORING PATRONS.
- 8. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, WATER, CABLE, GAS AND OTHER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 10. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 11. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 12. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE AREA OF CONCRETE REMOVAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 13. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 14. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

LEGEND: LOC. = LOCATION

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSTATE 290
NOISE WALL REPAIR
INDEX OF SHEETS, GENERAL NOTES
& STATE STANDARDS

SCALE, VERT.

DRAWN BY: SB/MYT

SCALE: VERT. HORIZ. DATE: MAY, 2005.

CHECKED BY: RSS

•REF-

F.A.L. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
290	2004-003 I	COOK	14	3
STA.	STA. TO STA			
FFD. ROA	D DIST, NO. 1 TH	INDIS FED. A	ID PROJECT	

CONTRACT NO. 62720

					г
				LOCATION 1	LOCATION 2
				MCHD No. 678158	MCHD No. 713404
	SUMMARY OF QUANTITI	<u>ES</u>	UR BAN TOTAL	CONSTRUCTION TYPE CODE SFTY-2A	CONSTRUCTION TYPE CODE SFTY-2A
CODE NO.	ITEM DESCRIPTION	UNIT	QUANTITY	QUANTITY	QUANTITY
0500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	400	400	
(0301423	NOISE ABATMENT WALL, GROUND MOUNTED	SQ. FT.	711	474	237
370910	CONCRETE BARRIER, SINGLE FACE, 32 INCH HEIGHT	FOOT	39	16	23
7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L.SUM	1	0.5	0.5
7100100	MOBILIZATION	L.SUM	1	0.5	0.5
0102400	CONCRETE REMOVAL	CU. YDS.	3.3	1.3	2.0
7015000	CHANGEABLE MESSAGE SIGN	CAL MO	1	0.5	0.5
7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	30	15	15
0322300	STRAIGHTEN BENT MEMBER	LSUM	1	0.3	0.7

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

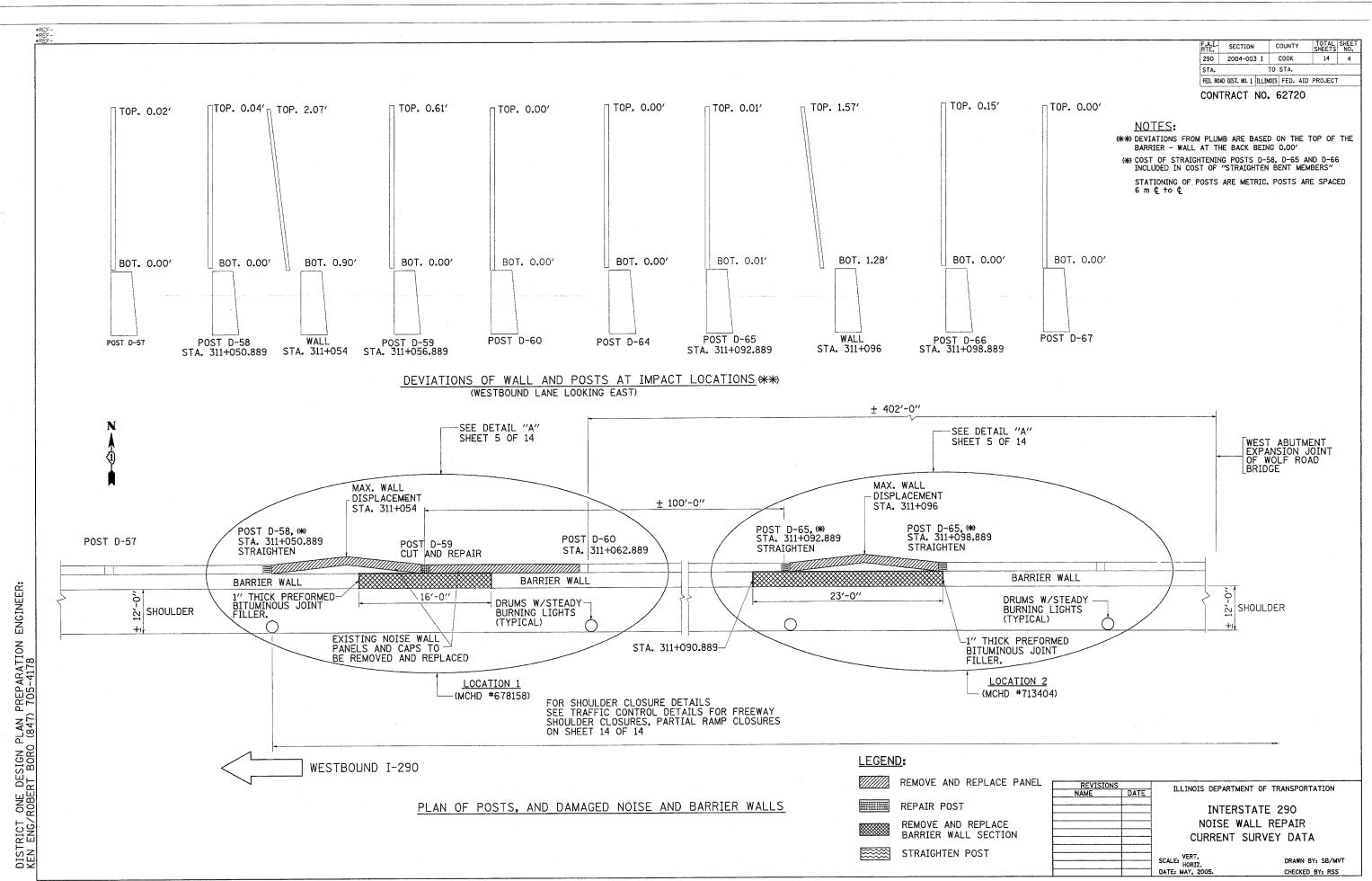
INTERSTATE 290

NOISE WALL REPAIR

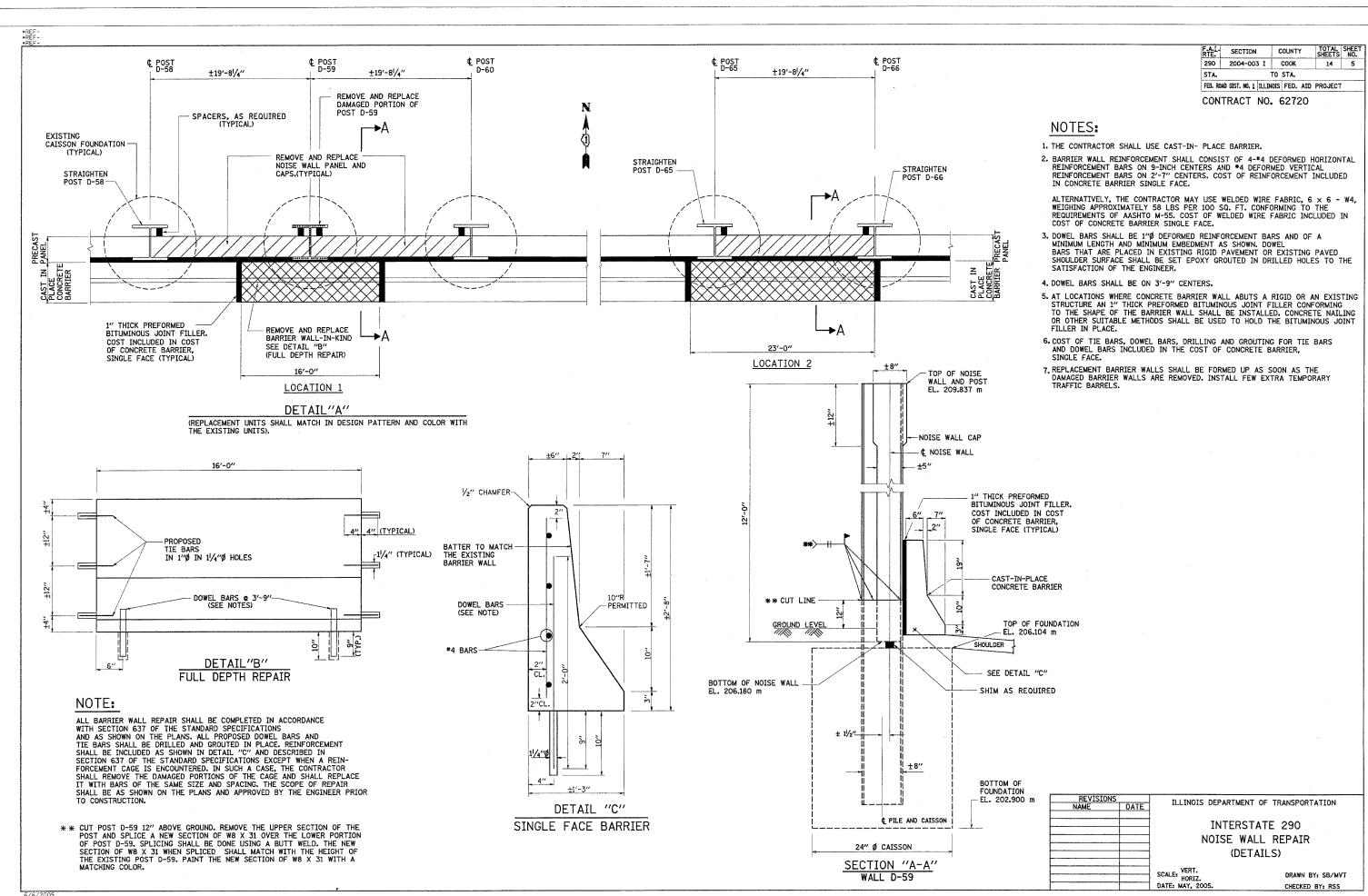
SUMMARY OF QUANTITIES

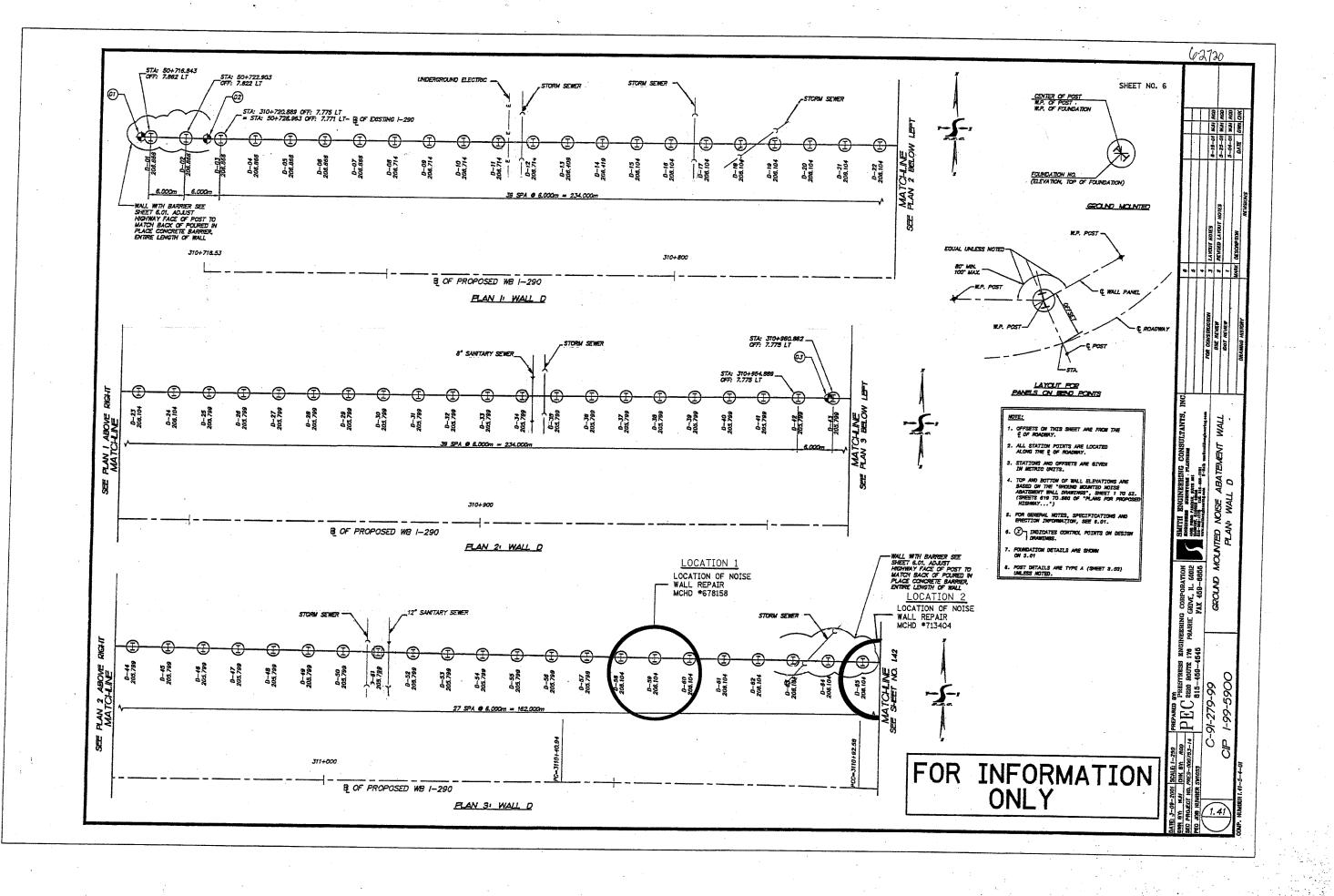
SCALE: VERT. HORIZ. DATE: APRIL, 2005.

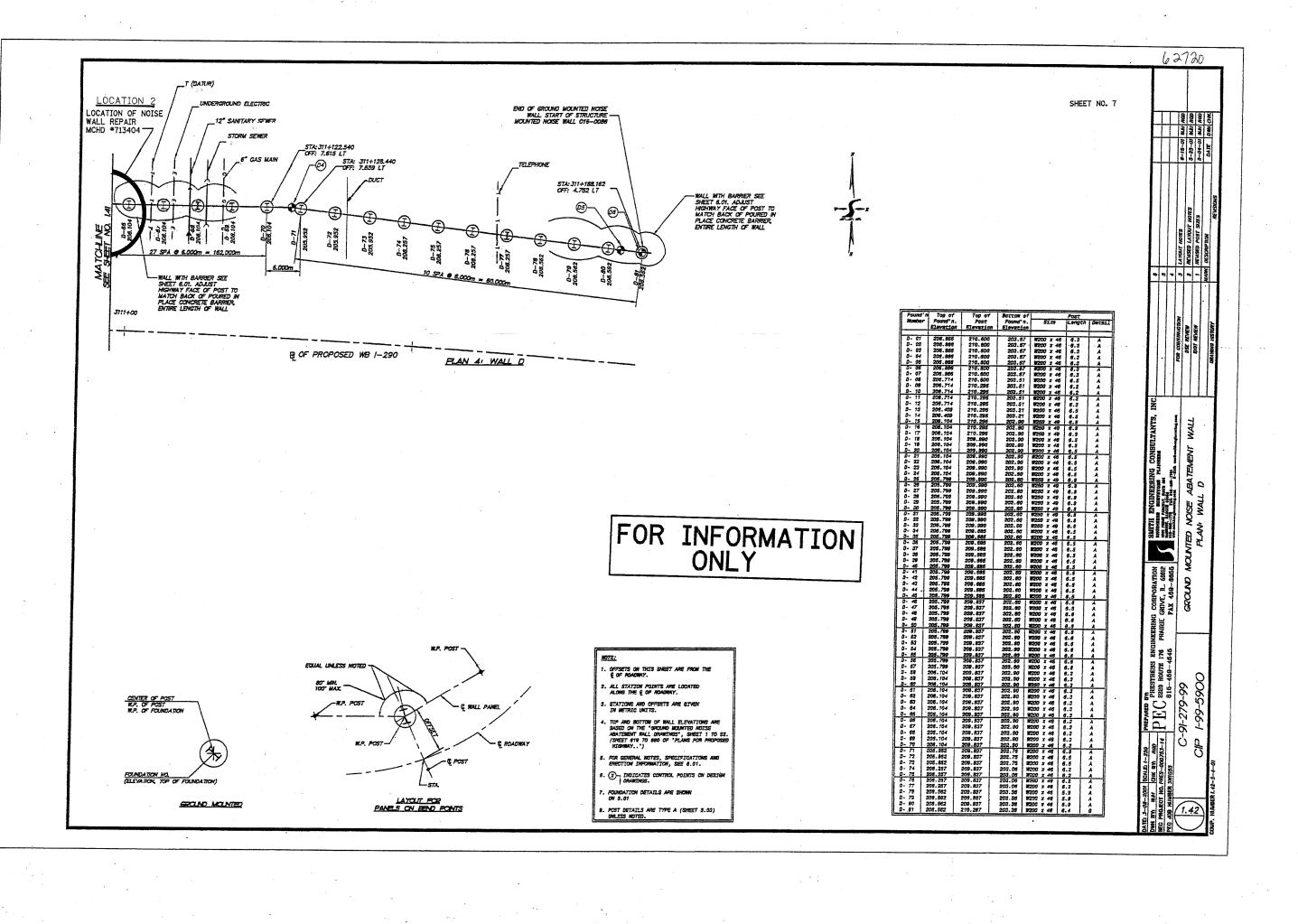
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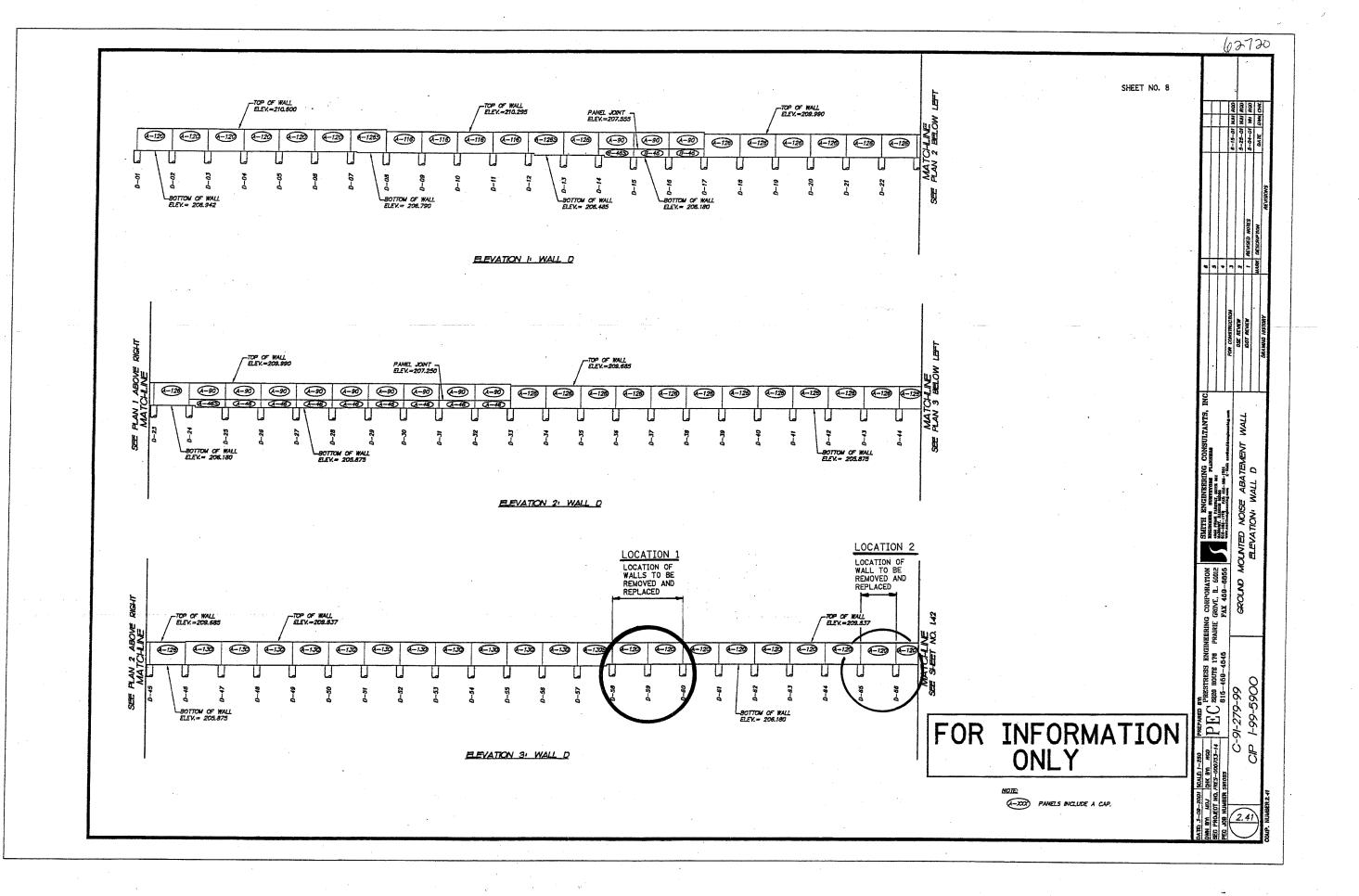


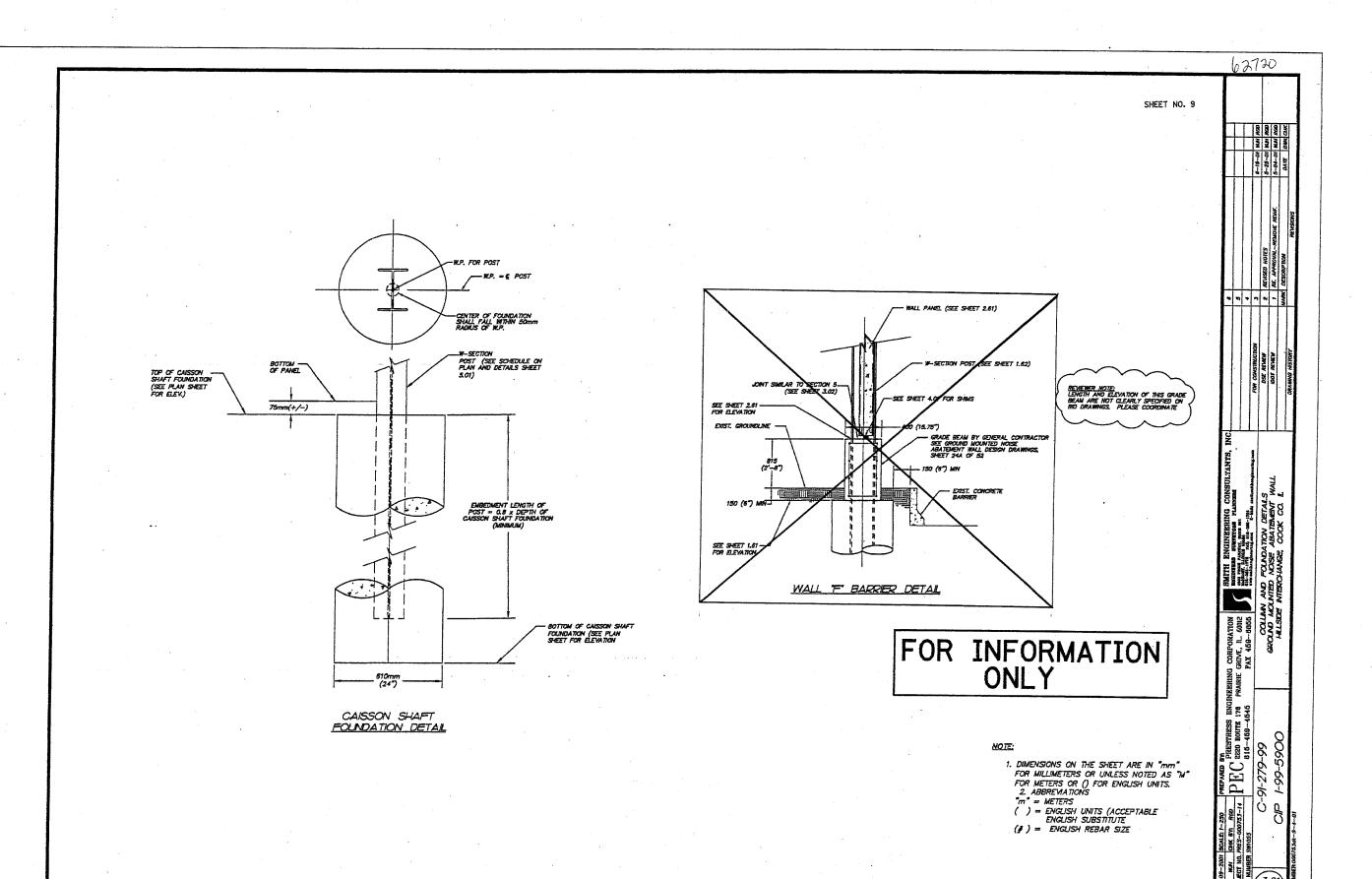
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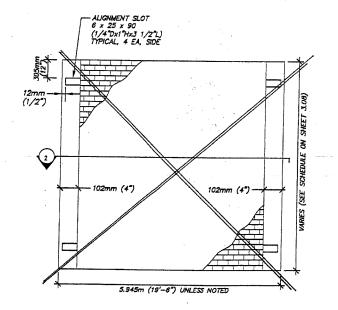




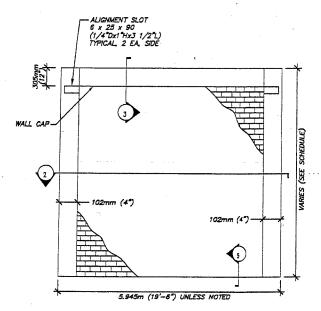


KAH RGD KAH RGD KAH RGD DWN, CHK.

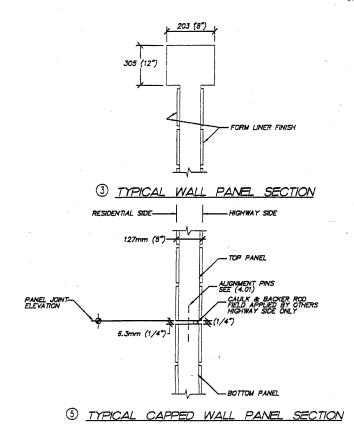
SHEET NO. 10



BOTTOM WALL PANEL ELEVATION



CAPPED WALL PANEL ELEVATION



FOR INFORMATION ONLY

APPROVED
For Main Dimensions and
Materials Only

JUL 06 2001

Relate E. Audeleen

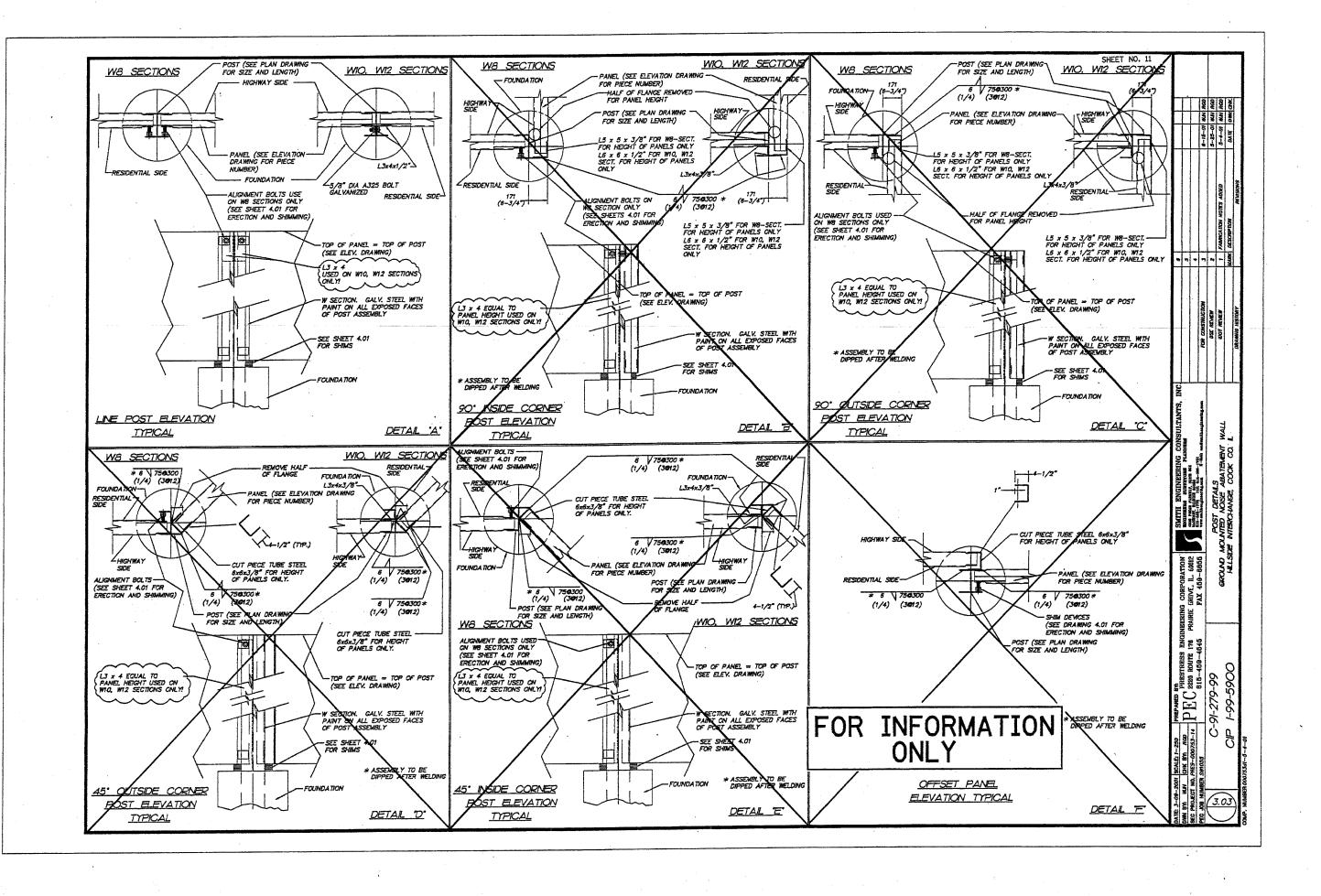
Gregore of Bridges and Traffic Structure

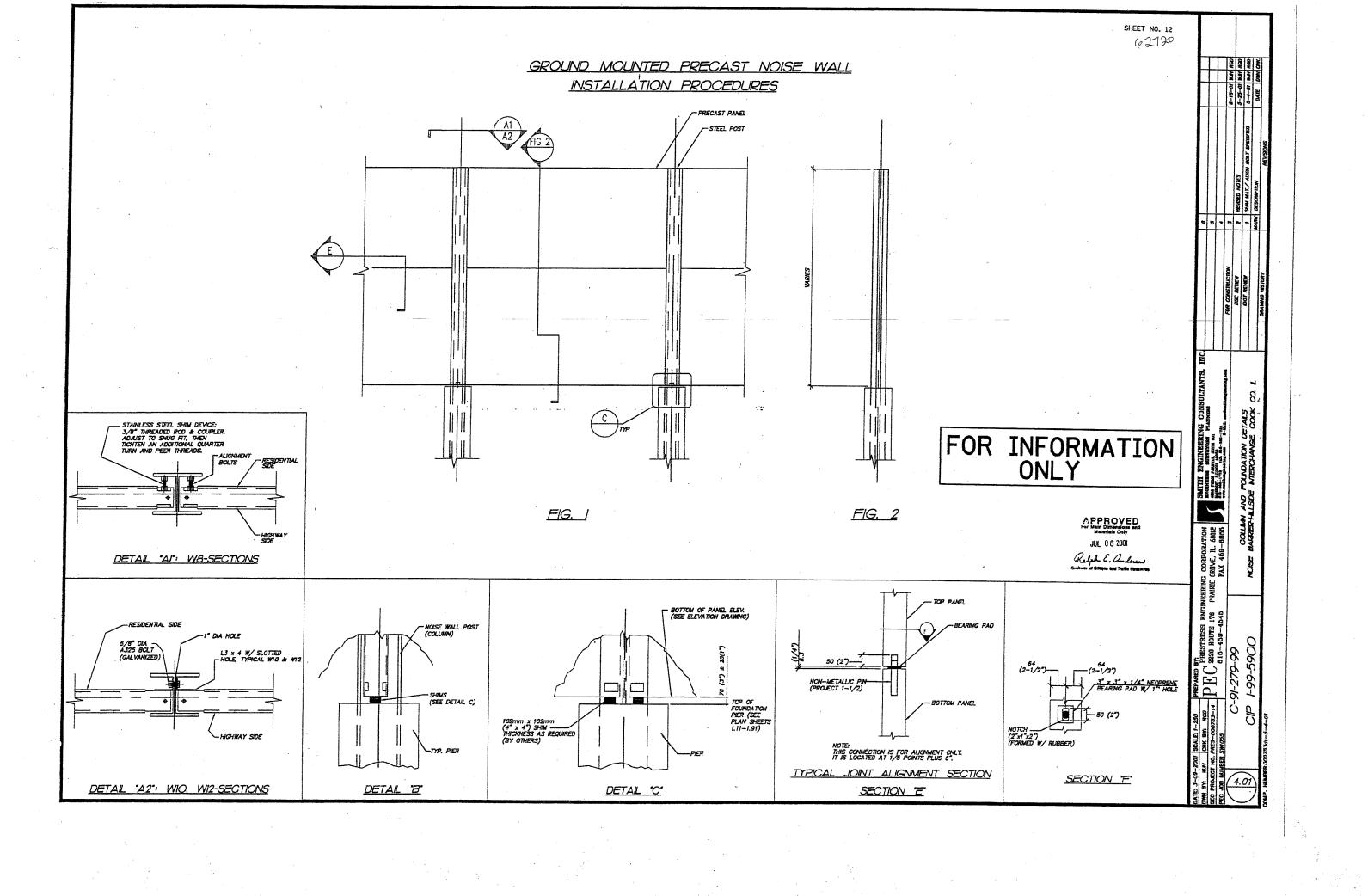
NOTE:

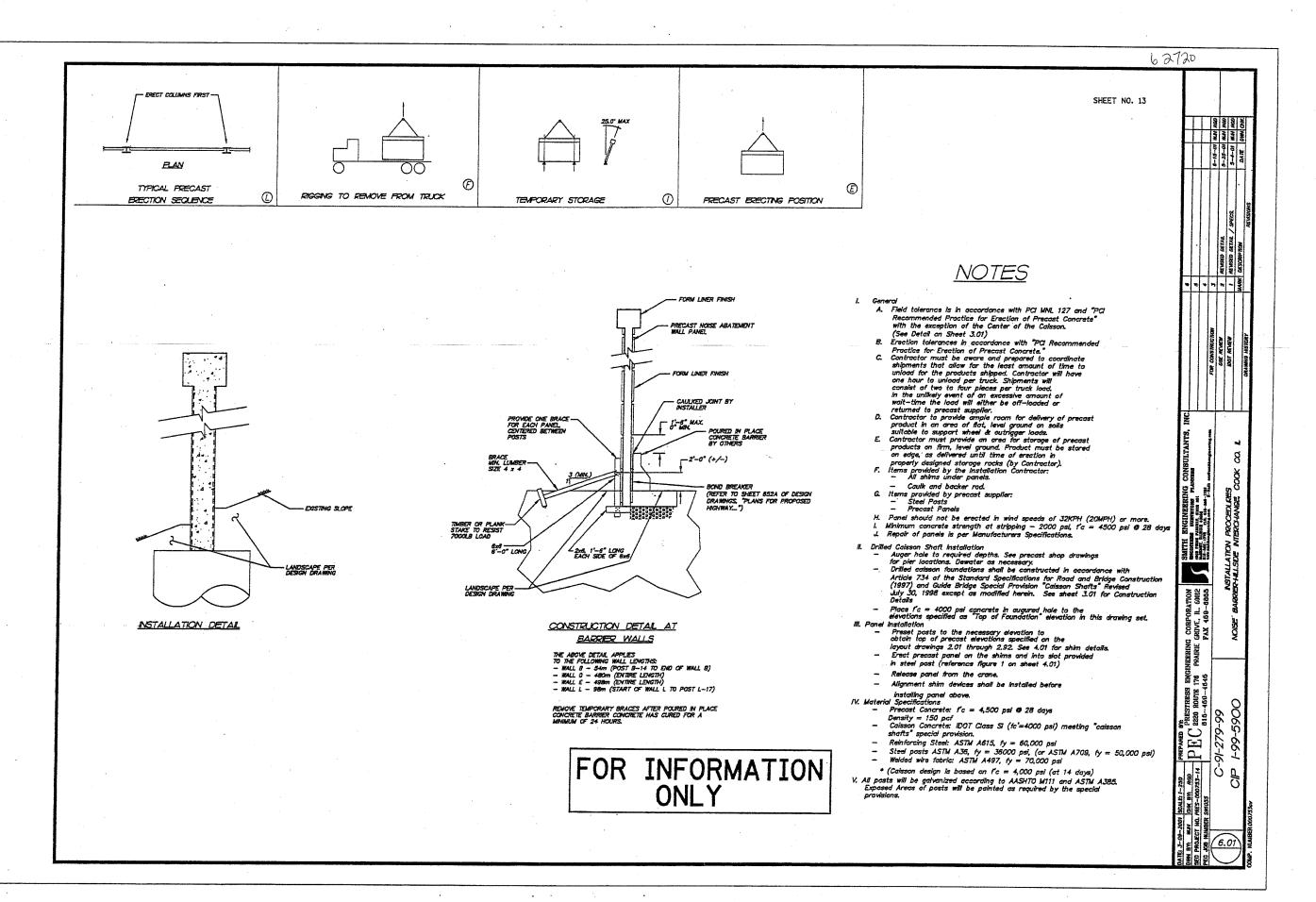
1. REINFORCING BAR DESIGNATIONS SHOW THE SMALLEST METRIC AND (SMALLEST ENGLISH) BARS WHICH WILL MEET DESIGN REQUIREMENTS. ENGLISH SIZES NOTED IN (PARENTHESIS).

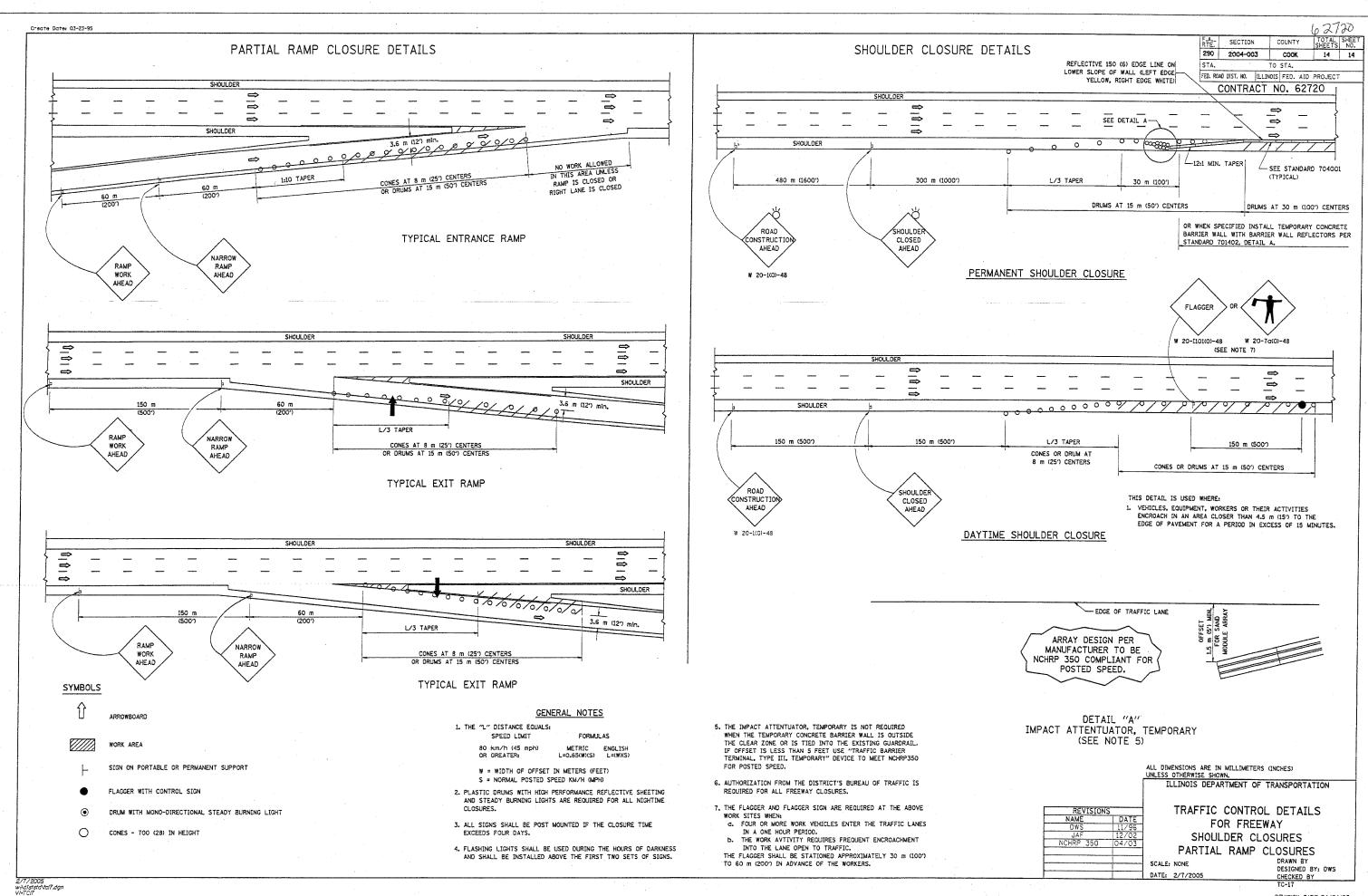
ب د ـ	*9.5mm (3/8°)	102mm (4*) 4061	T FACE FORM LINER FINISH INAL BRICK SIZE mm x 205mm (16*x8*)
(53)	. 	*	
*	(3/8")		
٠.	9.5mm	TYP. POST SPACING - 6.000m (19'-8 1/4") TYP. PANEL = 5.945M (19'-6")	•

2 TYPICAL WALL PANEL SECTION









REVISION DATE: 04/24/03