

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAU ROUTE 2625 – MILL ROAD  
OVER I-290 (DWIGHT D. EISENHOWER EXPY)  
SECTION (22-1HB-6)BP  
BRIDGE PAINTING  
DUPAGE COUNTY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2625	(22-1HB-6)BP	DUPAGE	10	1
		ILLINOIS	CONTRACT NO. 62B17	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGES OF  
ADDISON AND WOOD DALE

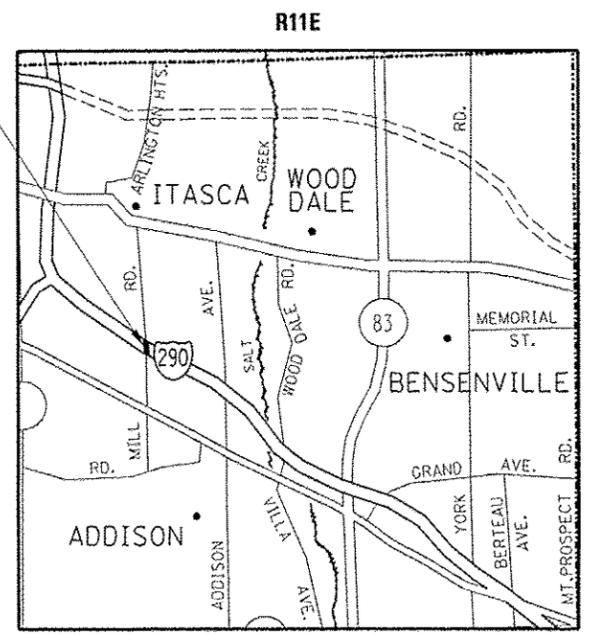
**TRAFFIC DATA**

2012 ADT (MILL ROAD): 3,500  
2014 ADT (I-290): 134,800

**POSTED SPEED LIMIT**

MILL ROAD: 30 MPH  
I-290: 55 MPH

IMPROVEMENT LOCATION  
SN 022-0109



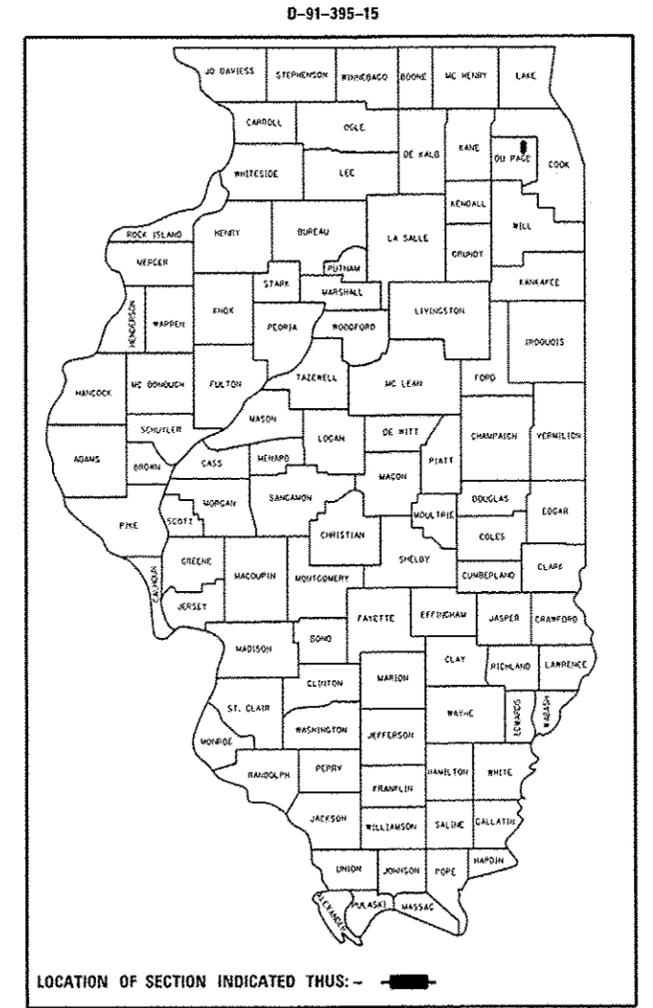
ADDISON TOWNSHIP

GROSS LENGTH = 294.00 FT. = 0.056 MILE  
NET LENGTH = 294.00 FT. = 0.056 MILE

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62B17



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED July 1 20 15  
*John F. ...*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

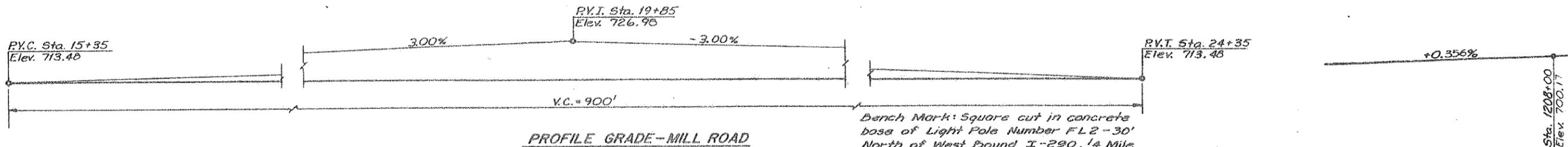
Aug 14 20 15  
*John D. Baranzola, P.E./a*  
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 14 20 15  
*Orner Osman, P.E./a*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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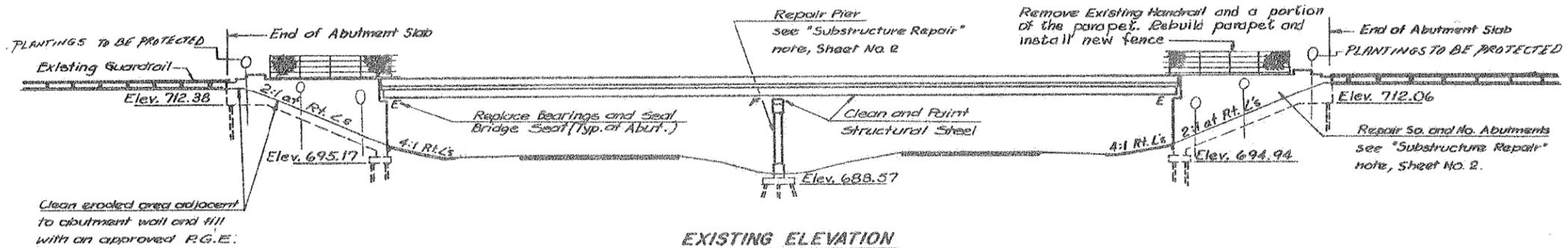




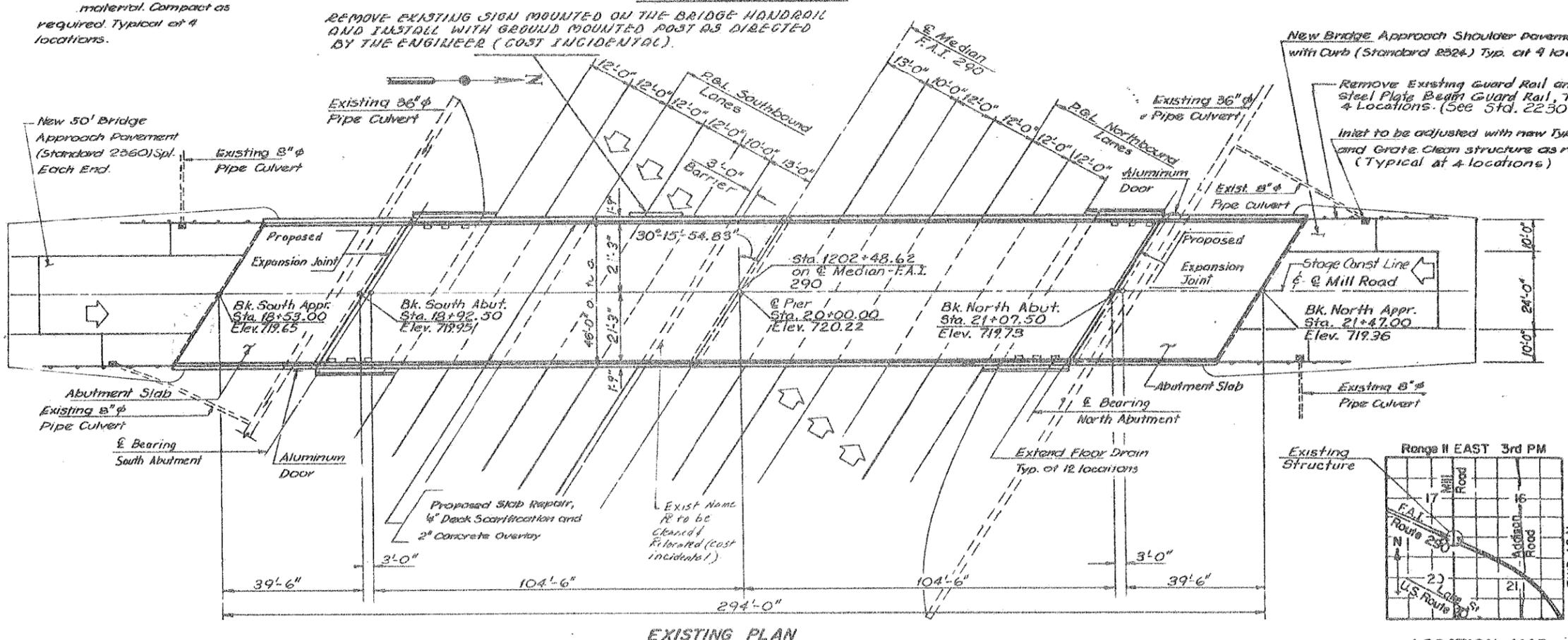


**Existing Structure Data:** The existing structure, built in 1970, carries Northbound and Southbound Mill Road over I-290. The structure is a two span continuous steel bridge, with concrete abutment slabs at each end (supported by prestressed concrete I-Beams), carrying two lanes of traffic.

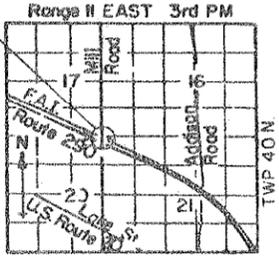
**PROFILE GRADE  
F.A.I. 290**



**FOR INFORMATION ONLY**



**New Bridge Approach Shoulder Pavement** with Curb (Standard 2524) Typ. at 4 locations.  
**Remove Existing Guard Rail and Replace with Steel Plate Beam Guard Rail, Type A Typical at 4 Locations.** (See Std. 2230-15)  
**Inlet to be adjusted with new Type 9 Frame and Grate Clean structure as required.** (Typical at 4 locations)



**Notes:** The proposed widening and stationing of F.A.I. Route 290 and the proposed elevations of Mill Road are shown in "Existing Plan" and "Existing Elevation"

DESIGNED -	EXAMINED	DATE
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

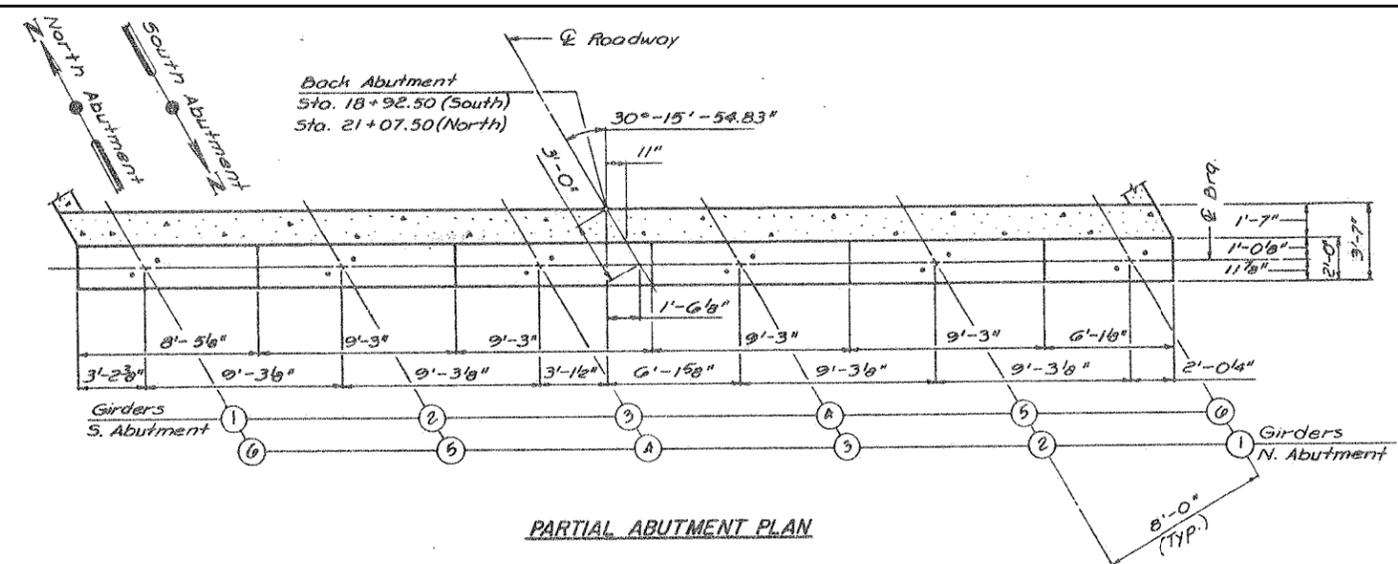
**MILL ROAD OVER I-290 (SN 022-0109)  
GENERAL PLAN & ELEVATION**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2625	(22-1HB-6)BP	DUPAGE	10	4
CONTRACT NO. 62B17				

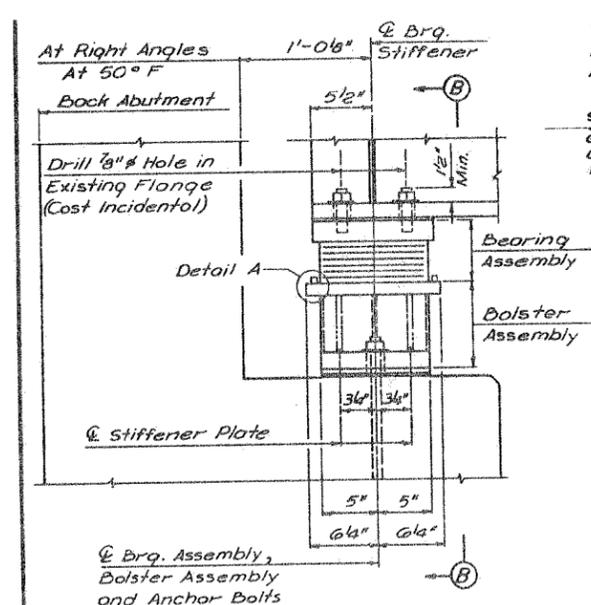
SHEET NO. 1 OF 4 SHEETS

ILLINOIS FED. AID PROJECT

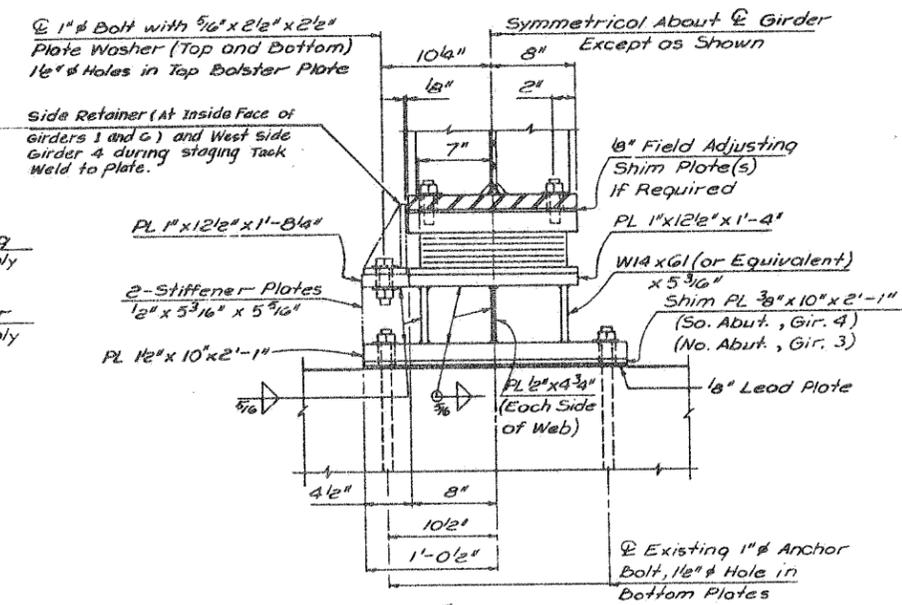




PARTIAL ABUTMENT PLAN



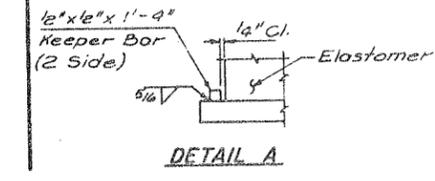
SIDE VIEW



SECTION B-B

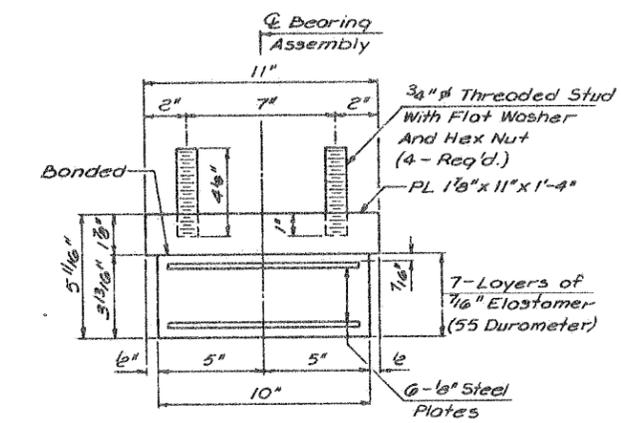
NEW TYPE I ELASTOMERIC EXPANSION BEARINGS UNDER EXISTING GIRDERS 1 THRU 6

Provide 2-1/2" field adjusting shim plates for each bearing. Place as shown.



BILL OF MATERIAL

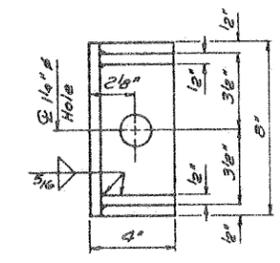
ITEM	UNIT	QUANTITY
Jacking and Removing Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type I	Each	12



BEARING ASSEMBLY

Shim plate shall not be placed under bearing assembly.

ELEVATION



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

NOTES:

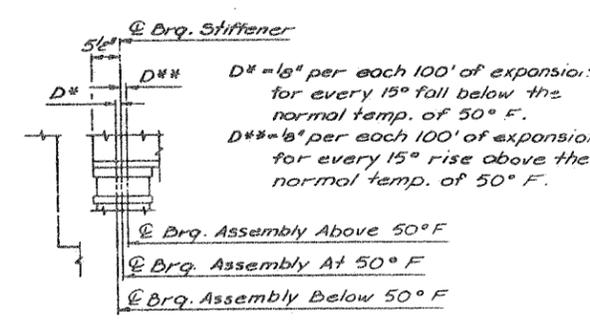
CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING BEARINGS BEFORE REMOVING AND ORDERING NEW BEARINGS.

ENGINEER SHALL DETERMINE IF EXISTING ANCHOR BOLTS, WASHERS AND NUTS ARE REUSABLE. IF NOT, NEW ANCHOR BOLTS, WASHERS AND NUTS SHALL BE FURNISHED AND INSTALLED.

ALL STRUCTURAL STEEL SHALL BE AASHTO M-183.

BEARING ASSEMBLIES ARE INCLUDED IN THE UNIT BID PRICE FOR "ELASTOMERIC BEARING ASSEMBLY, TYPE I".

BOLSTER ASSEMBLIES, SHIM PLATES, LEAD PLATES, SIDE RETAINERS ARE INCLUDED IN THE UNIT BID PRICE FOR "FURNISHING AND ERECTING STRUCTURAL STEEL".



TOP BEARING PLATE INSTALLATION

NOTES:

EQUIVALENT WELDED PLATES WILL BE ALLOWED FOR THE BOLSTER ASSEMBLY IN LIEU OF THE ROLLED BEAM AND PLATES.

CONTACT SURFACE OF TOP BOLSTER PLATE BETWEEN PLATE AND ELASTOMER SHALL BE LEFT UNPAINTED AND SHALL BE BLAST CLEANED BEFORE PLACING ELASTOMER ON IT.

THREADED STUDS SHALL BE INSTALLED TO A TIGHT FIT AFTER BEARING AND BOLSTER ASSEMBLIES HAVE BEEN INSTALLED. STUDS MUST BE INSTALLED AT THE SAME TEMPERATURE AS WHEN THE HOLES IN THE FLANGE WERE DRILLED.

FOR ANCHOR BOLT DETAILS AND INSTALLATION PROCEDURES, SEE SHEET NO. 8.

FOR INFORMATION ONLY

DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

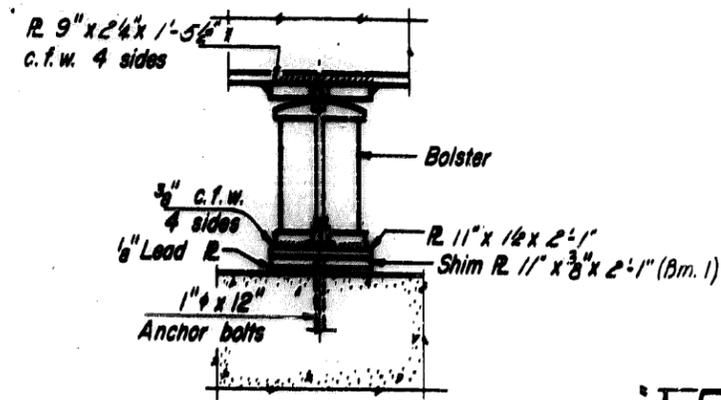
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MILL ROAD OVER I-290 (SN 022-0109)  
BEARING DETAILS AT NORTH & SOUTH ABUTMENTS

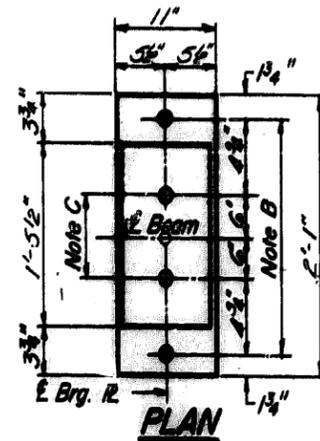
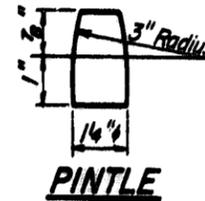
SHEET NO. 3 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2625	(22-1HB-6)BP	DUPAGE	10	6
CONTRACT NO. 62B17				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

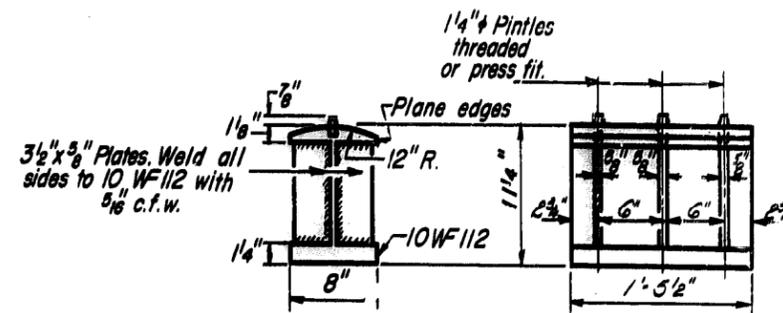


**ELEVATION**

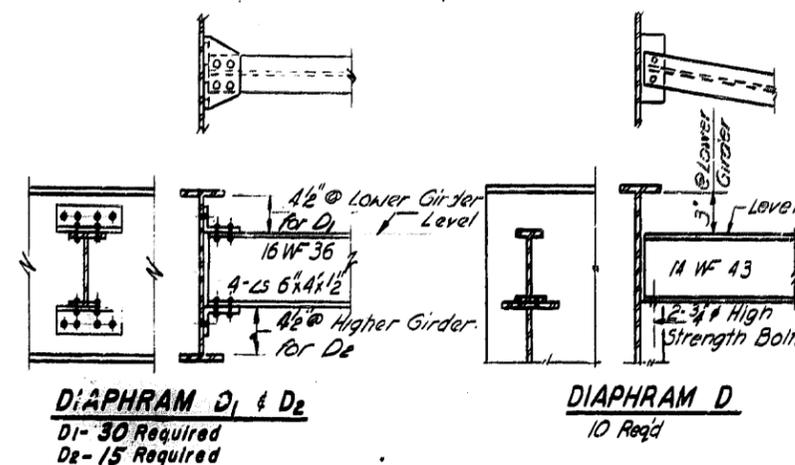


**NOTE B**  
1 1/2" Holes for 1" anchor bolts.  
2 1/2" x 2 1/2" x 5/16" R. Washers  
under nut.

**NOTE C**  
1 3/8" Holes 1" deep in top R  
only for 1 1/4" pintles.



**BEARING ASSEMBLY DETAILS**



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DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MILL ROAD OVER I-290 (SN 022-0109)  
BEARINGS AT PIER AND DIAPHRAGM DETAILS

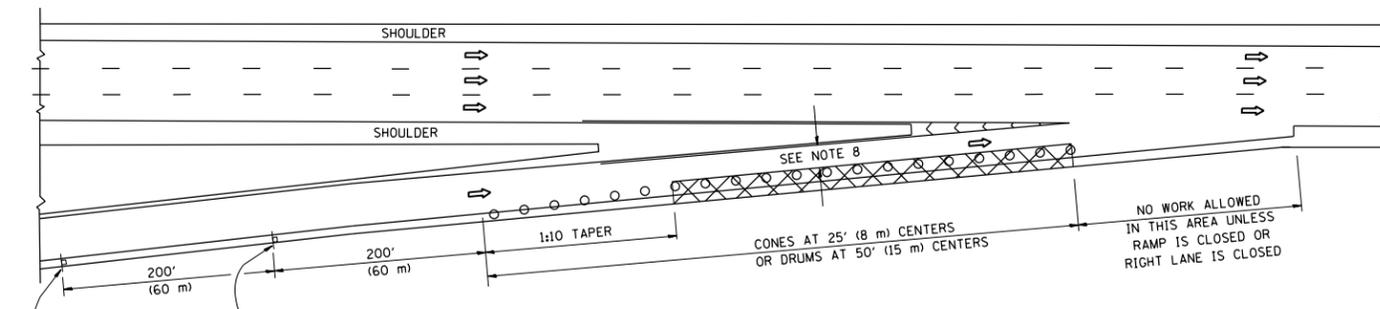
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2625	(22-1HB-6)BP	DUPAGE	10	7
CONTRACT NO. 62B17				

SHEET NO. 4 OF 4 SHEETS

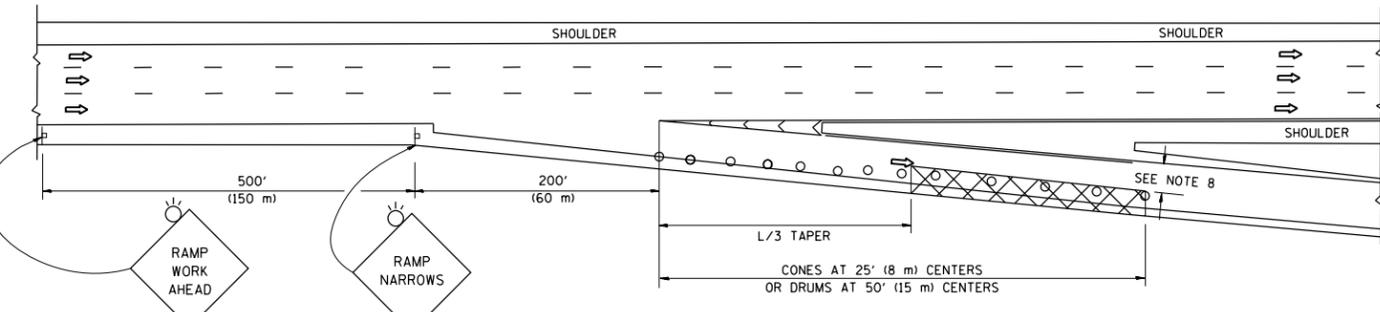
ILLINOIS FED. AID PROJECT



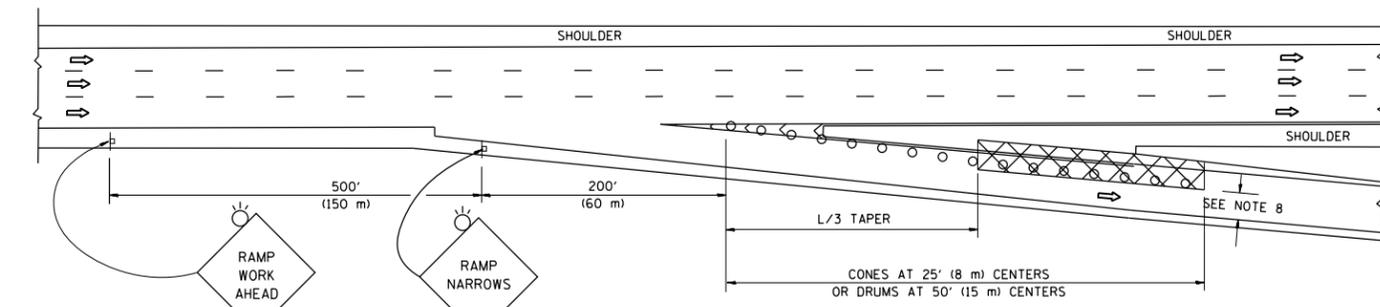
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

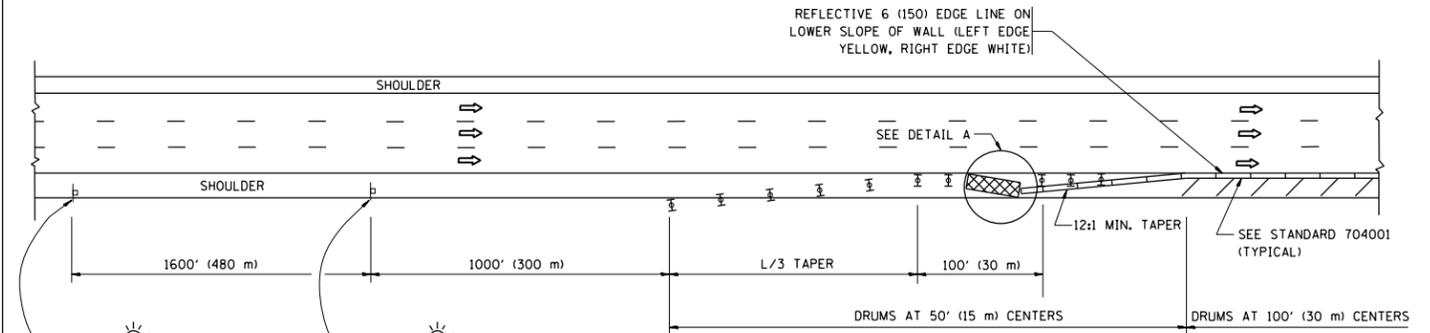
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

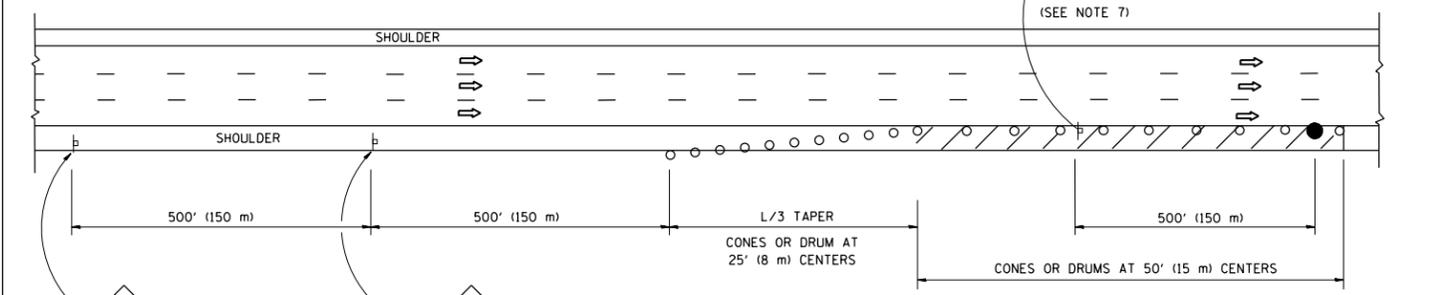
1. THE "L" DISTANCE EQUALS:  

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(W)(S) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

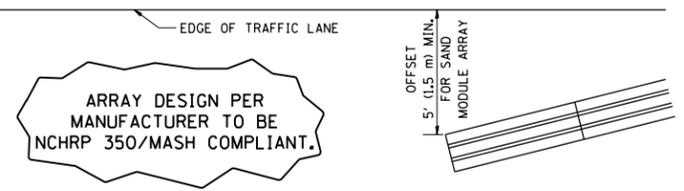


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)

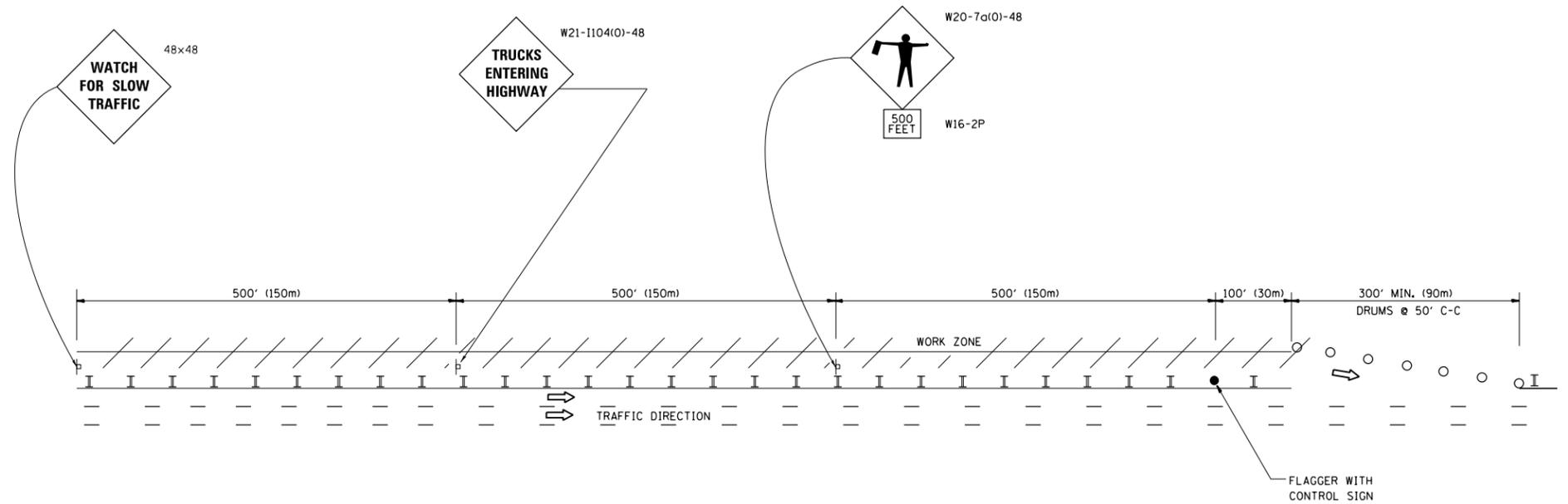
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

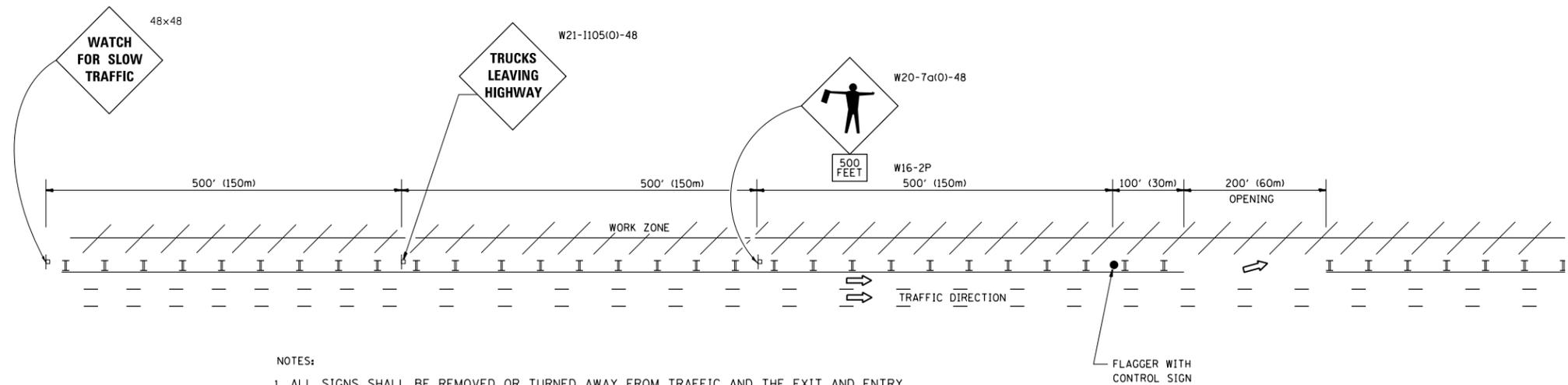
FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>			F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\DI395\Drawings\Design\DWG\Std.dgn	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 01-07					2625	(22-1HB-6)BP	DUPAGE	10	9
PLLOT DATE = 7/8/2015	DATE - 11-96	REVISED -	REVISED - S.P.B. 12-09		<b>TC-17</b>			<b>CONTRACT NO. 62B17</b>				
		REVISED -	REVISED - M.D. 06-13		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

## SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

### WORK ZONE EXIT OPENING



### WORK ZONE ENTRY OPENING



**NOTES:**

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\DI39\Design\DistStd.dgn	DRW	REVISED - S.P.B. 01-07	REVISED - S.P.B. 12-09			2625	(22-1HB-6)BP	DUPAGE	10	10
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D. 06-13				<b>TC-18</b>		<b>CONTRACT NO. 62B17</b>		
PLOT DATE = 7/8/2015	DATE -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				