

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-026 BR	COOK&DUPAGE	29	1
		ILLINOIS	CONTRACT NO. 60T70	

\* FAI 290 & FAP 342

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED  
IN THE VILLAGES OF ITASCA,  
ELK GROVE AND PALATINE

# PROPOSED HIGHWAY PLANS

FAI ROUTE 290: I-290 AND FAP ROUTE 342: IL 53 EXTENSION  
VARIOUS LOCATIONS  
SECTION: 2012-026 BR  
SUBSTRUCTURE REPAIRS  
COOK AND DUPAGE COUNTIES

C-91-419-12

- LOC. 1) IL 53 EXTENSION AT LAKE-COOK RD (SN 016-3215)
- LOC. 2) I-290 AT BIESTERFIELD RD (SN 016-0960)
- LOC. 3) I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091)

FOR LOCATION MAPS, SEE SHEET 3



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

PROJECT ENGINEER: BORO, ROBERT (847) 705-4237  
PROJECT MANAGER: RAYYAN, ISSAM (847) 705-4178

CONTRACT NO.60T70

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED August 22 20 12

*John P. Antonino, Sr.*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 5 20 12  
*John D. Baranzelli, P.E.*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 5 20 12  
*William B. Frey, Jr.*  
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

<u>SHEET NO</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	LOCATION MAPS: 1, 2 AND 3
4	SUMMARY OF QUANTITIES
5-11	STRUCTURAL REPAIRS – LOCATION 1, (SN 016-3215)
12-19	STRUCTURAL REPAIRS – LOCATION 2, (SN 016-0960)
20	TRAFFIC CONTROL PLAN – LOCATION 2
21-28	STRUCTURAL REPAIRS – LOCATION 3, (SN 022-0091)
29	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)

## STATE STANDARDS

<u>STD NO</u>	<u>DESCRIPTION</u>
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
643001	SAND MODULE IMPACT ATTENUATORS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-03	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

## GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811. FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND VILLAGES OF ELK GROVE, ITASCA AND PALATINE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM FIELD NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING ELECTRICAL CONDUIT AND LIGHTING FACILITIES IN AND AROUND THE VICINITY OF THE REPAIR LOCATIONS OF THE BRIDGE SUBSTRUCTURE.

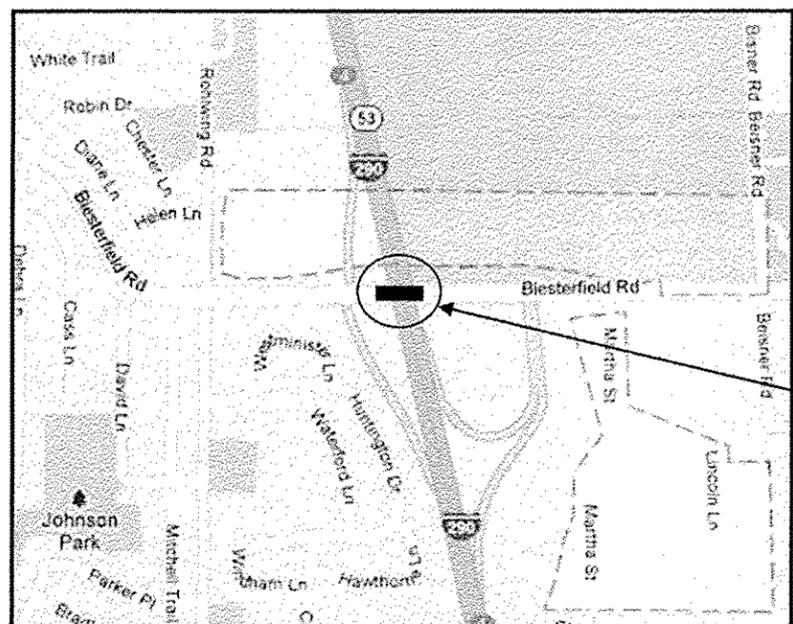
\* FAI 290 & FAP 342

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b>	F.A.I. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\pwork\gorengautab\d0181671\02-0391.dgn		DRAWN -	REVISED -				2012-026 BR	COOK & DuPAGE	29	2
#MODELNAME*	PLOT SCALE = 100.0000 "/> <td>CHECKED -</td> <td>REVISED -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	CHECKED -	REVISED -							
	PLOT DATE = 8/27/2012	DATE -	REVISED -		SCALE: _____ SHEET OF SHEETS STA. TO STA.					ILLINOIS FED. AID PROJECT
CONTRACT NO. 60T70										

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290 & FAP 342	2012-026 BR	COOK & DUPAGE	29	3

Contract 60T70

T 41 N



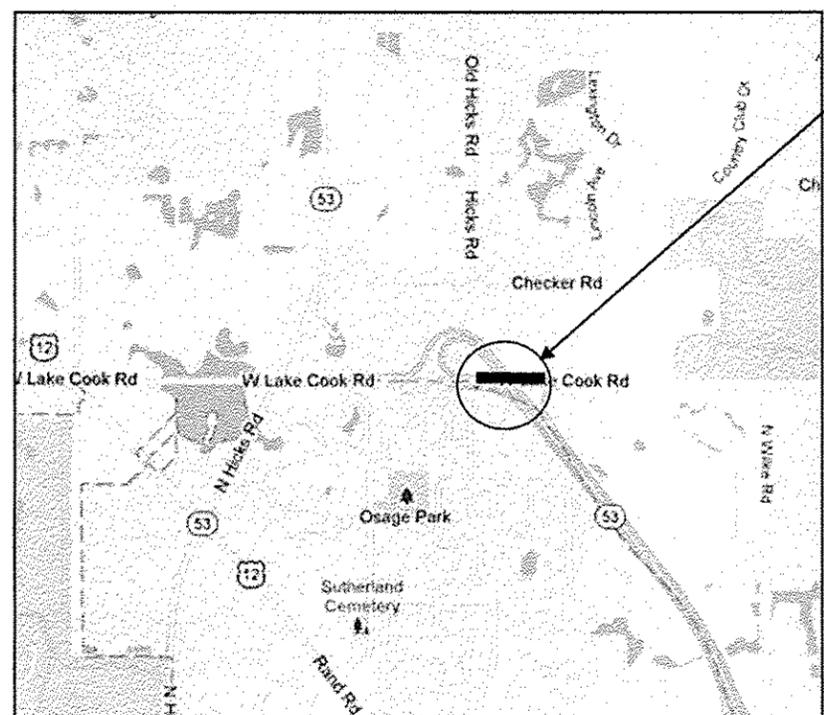
ELK GROVE TOWNSHIP  
COOK COUNTY



**LOCATION 2: SN 016-0960  
VILLAGE OF ELK GROVE  
I-290 AT BIESTERFIELD RD**

**LOCATION 1: SN 016-3215  
VILLAGE OF PALATINE  
IL 53 EXTENSION AT  
LAKE-COOK RD**

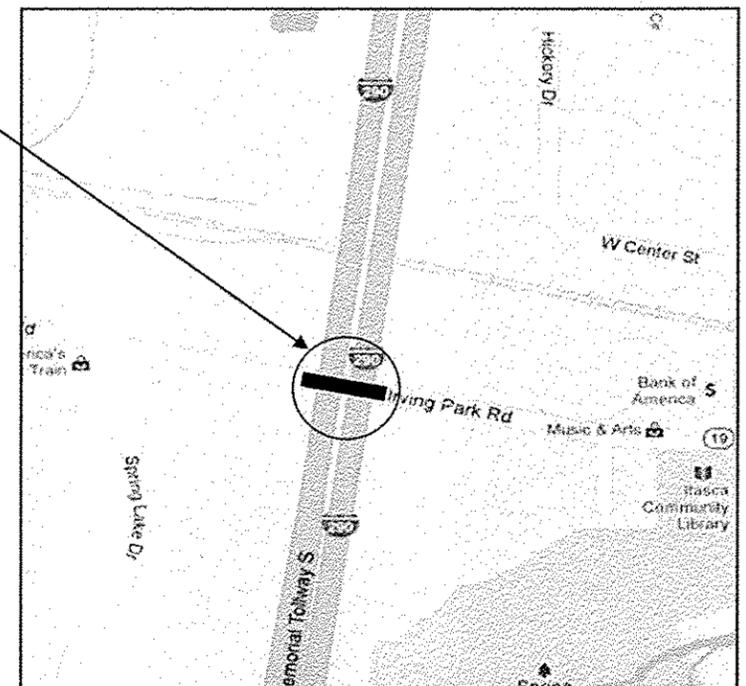
T 42 N



PALATINE TOWNSHIP  
COOK COUNTY



**LOCATION 3: SN 022-0091  
VILLAGE OF ITASCA  
I-290 AT IL 19 (IRVING PARK RD)**



ADDISON TOWNSHIP  
DUPAGE COUNTY

**TRAFFIC DATA:**

I-290: SPEED LIMIT = 55 MPH  
2010 ADT = 188,300

IL 53(EXTENSION): SPEED LIMIT = 35-55 MPH  
2010 ADT = 69,400

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**LOCATION MAPS**

URBAN 07E0L 07E0J 07E0J

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE 0014			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	COOK CO		DUPAGE CO
				LOC. 1 SN 016-3215 FAP (0014)	LOC. 2 SN 016-0960 FAI (0014)	LOC. 3 SN 022-0091 FAI (0014)
20200100	EARTH EXCAVATION	CU YD	85	45		40
28000400	PERIMETER EROSION BARRIER	FOOT	280	130		150
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	79	37		42
28200200	FILTER FABRIC	SO YD	215	105		110
50102400	CONCRETE REMOVAL	CU YD	1.4		1.4	
50300225	CONCRETE STRUCTURES	CU YD	31.4	13.0	1.4	17
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5230	2420		2810
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2
67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.34
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		0.5	0.5
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	37.5		37.5	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	125		125	
78200530	BARRIER WALL MARKERS, TYPE C	EACH	20		20	
x7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.34	0.33	0.33
x8210305	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING	L SUM	1	0.35	0.3	0.35
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	3460	978	877	1605

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE 0014			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	COOK CO		DUPAGE CO
				LOC. 1 SN 016-3215 FAP (0014)	LOC. 2 SN 016-0960 FAI (0014)	LOC. 3 SN 022-0091 FAI (0014)
				07E0L	07E0J	07E0J
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SO FT	99	75	8	16
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	510	206	152	152
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	21		1	20

FILE NAME :	USER NAME : gorengrub	DESIGNED -	REVISED -
PROJECT WORKSPACE: \p\gorengrub\000611022-001.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: _____	SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE. *	SECTION 2012-026 BR	COUNTY COOK & DUPAGE	TOTAL SHEETS 29	SHEET NO. 4
CONTRACT NO. 60170				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

\*FAI 290 & FAP 342

Rev



**BILL OF MATERIALS (WEST ABUT)**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT.	277.0
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	17
EARTH EXCAVATION	CU YD	17
PERIMETER EROSION BARRIER	FOOT	65
FILTER FABRIC	SQ. YD	45
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	116

**TOTAL BILL OF MATERIALS  
(SN 016-3215)**

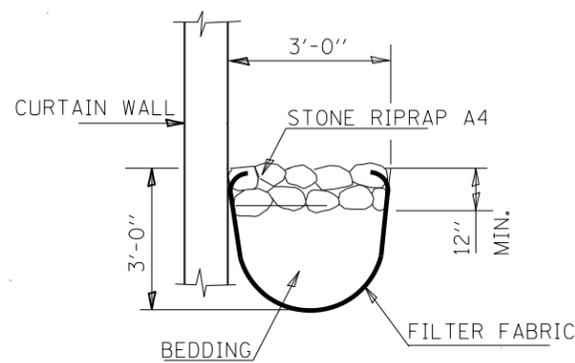
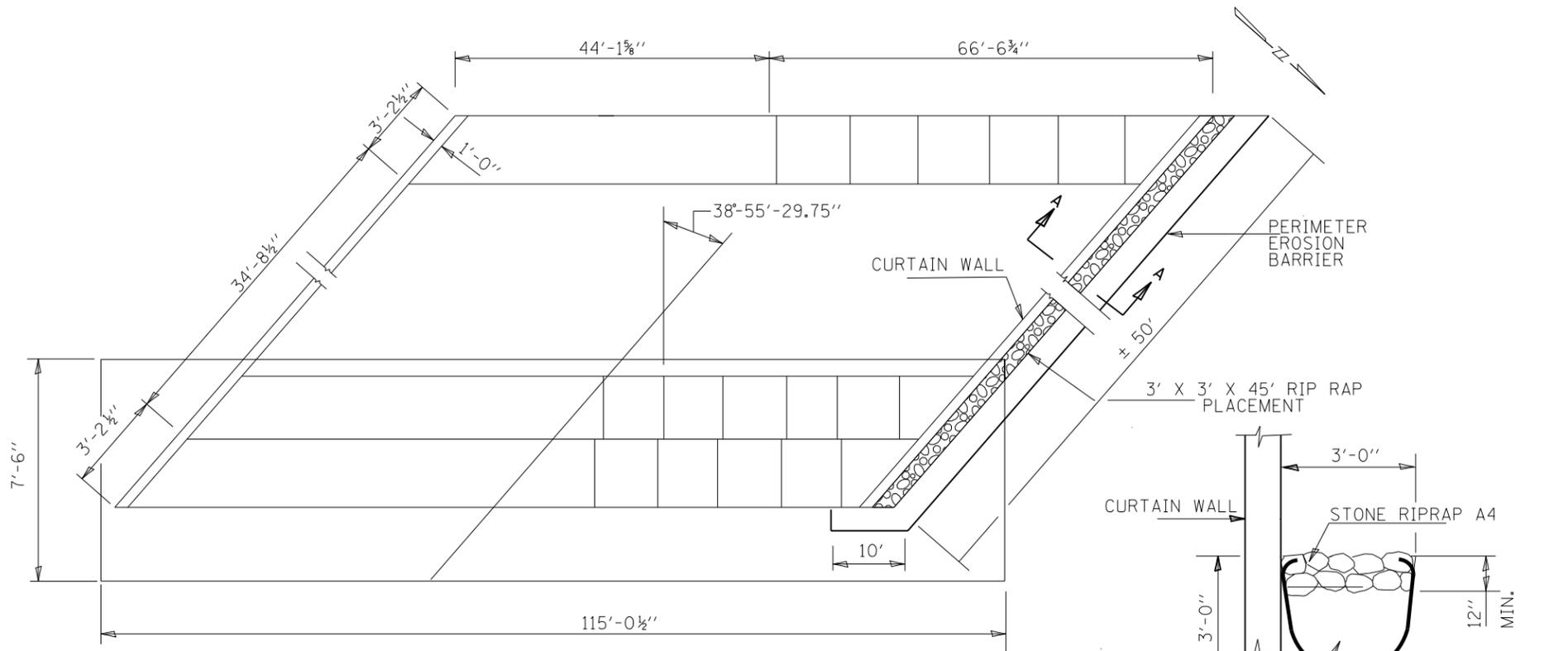
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	978.0
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	75.0
CONCRETE STRUCTURES	CU. YD	13.0
REINFORCEMENT BARS, (EPOXY COATED)	LBS	2420
EARTH EXCAVATION	CU YD	45
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	37
FILTER FABRIC	SQ. YD	105
PERIMETER EROSION BARRIER	FOOT	130
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	206

**NOTES:**

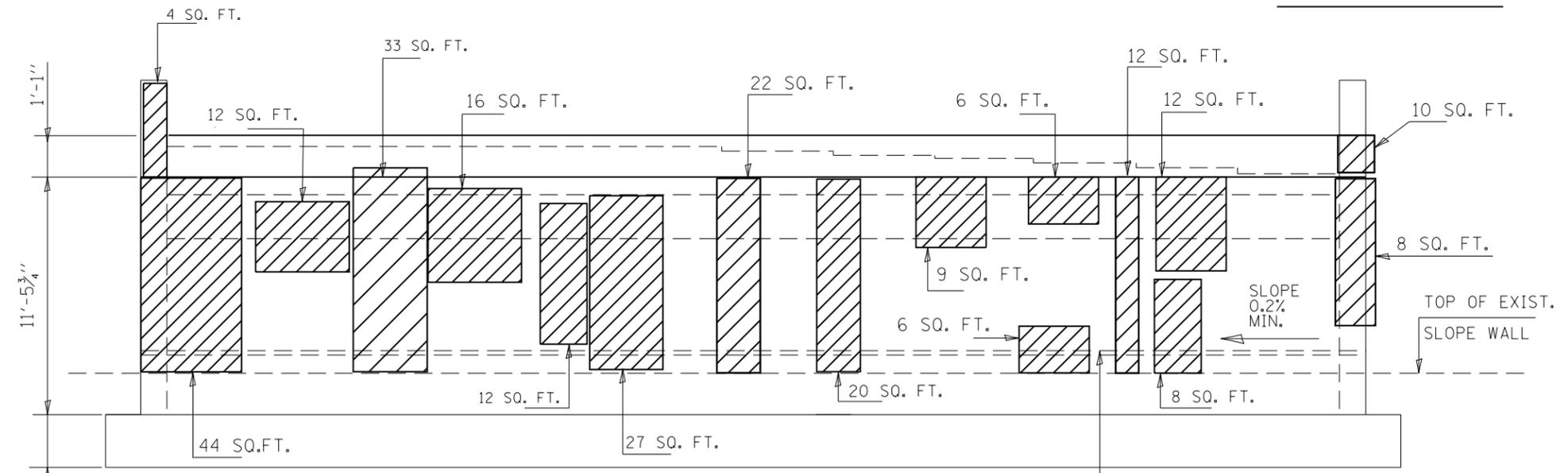
COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4". "

**LEGEND:**

-  STRUCTURAL REPAIR OF CONCRETE ≤ 5"
-  RIPRAP

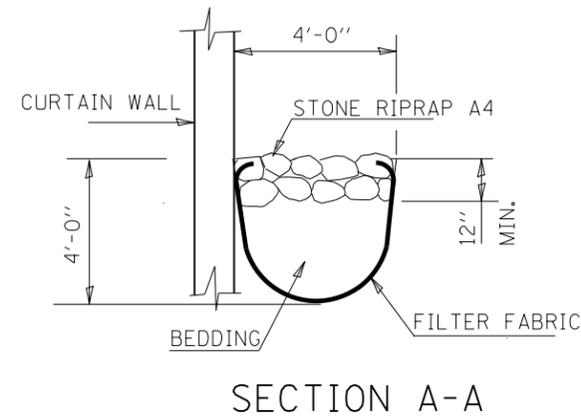
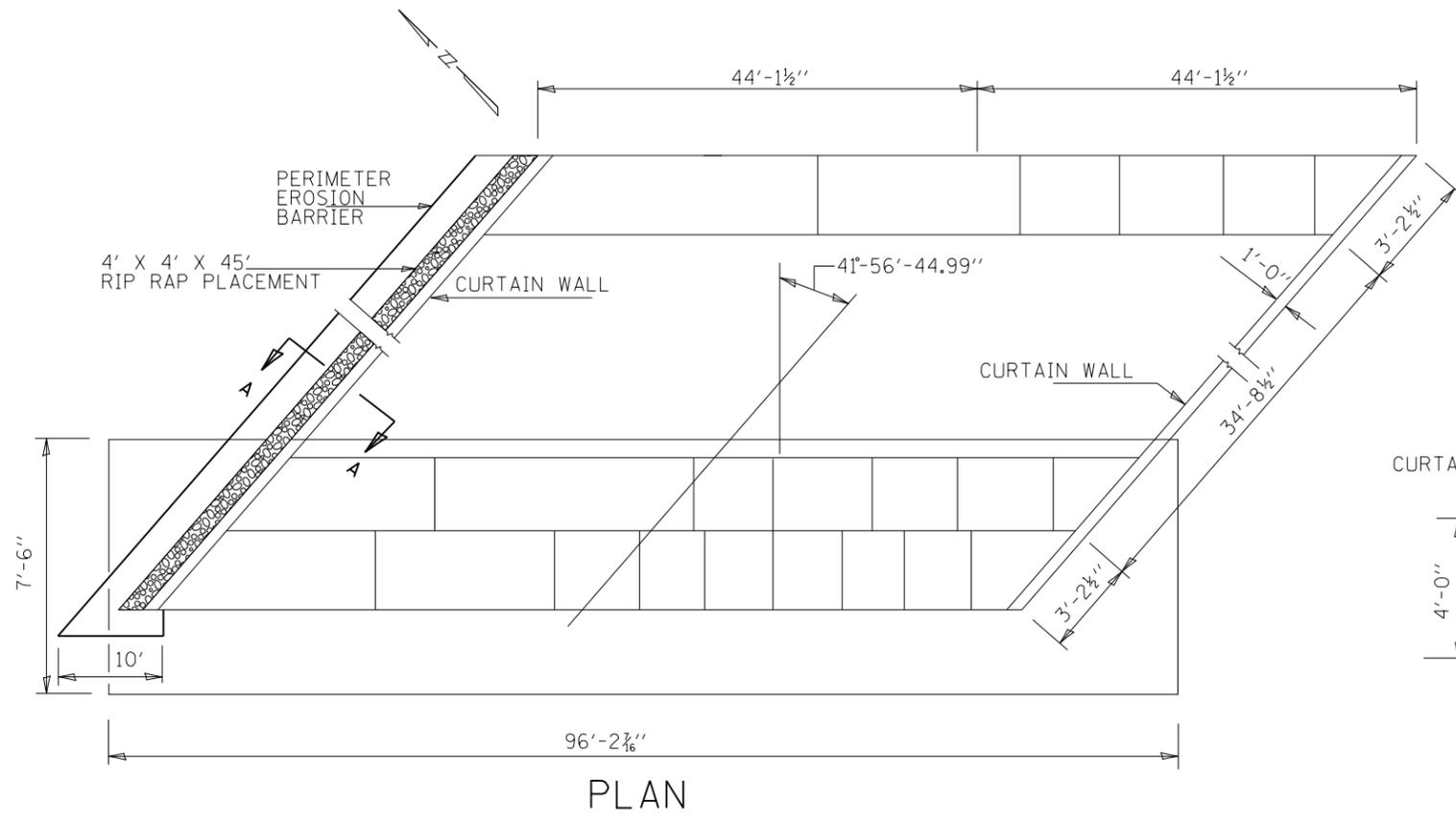


**SECTION A-A**



**WEST ABUTMENT ELEVATION  
LOOKING WEST**

4" DIAM. PERFORATED PIPE  
(TO BE CENTERED AT BACK  
OF WEEP HOLES)  
(SEE SHEET 5 OF 7)



### BILL OF MATERIALS (EAST ABUT)

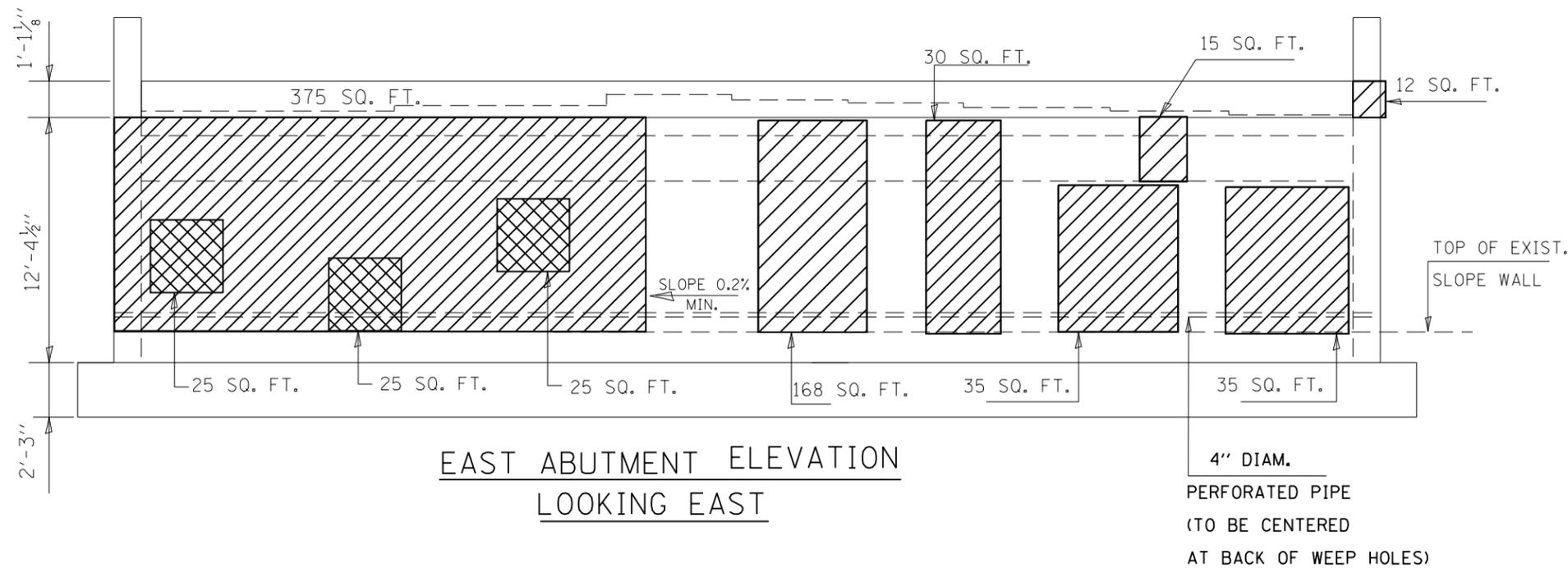
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	670.0
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	75.0
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	20
EARTH EXCAVATION	CU YD	28
PERIMETER EROSION BARRIER	FOOT	65
FILTER FABRIC	SQ. YD	60
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	90

### TABLE OF REACTIONS

	REACTIONS (Kips)		
	E. ABUT.	W. ABUT.	PIER
DL	54	61	213
SDL	40	50	83
LL	8	10	16
IMP.	8	10	16
TOTAL	102	121	312

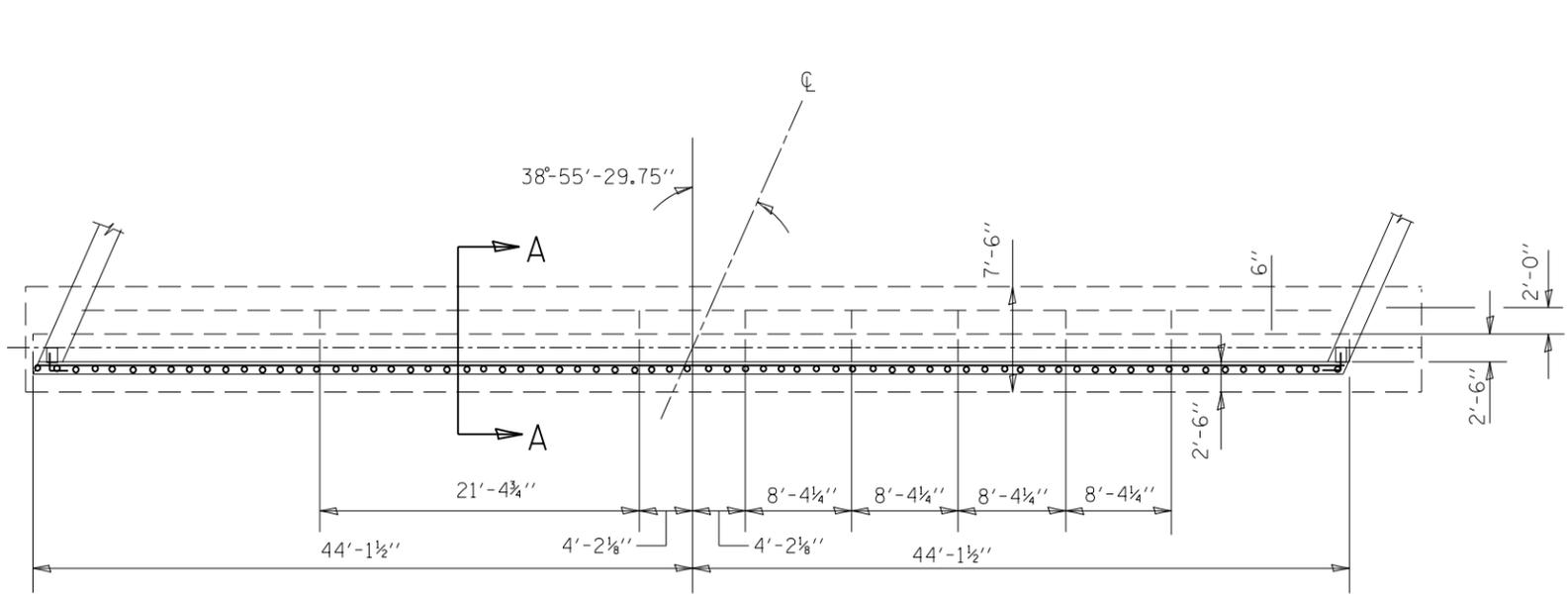
### NOTES:

COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4". "

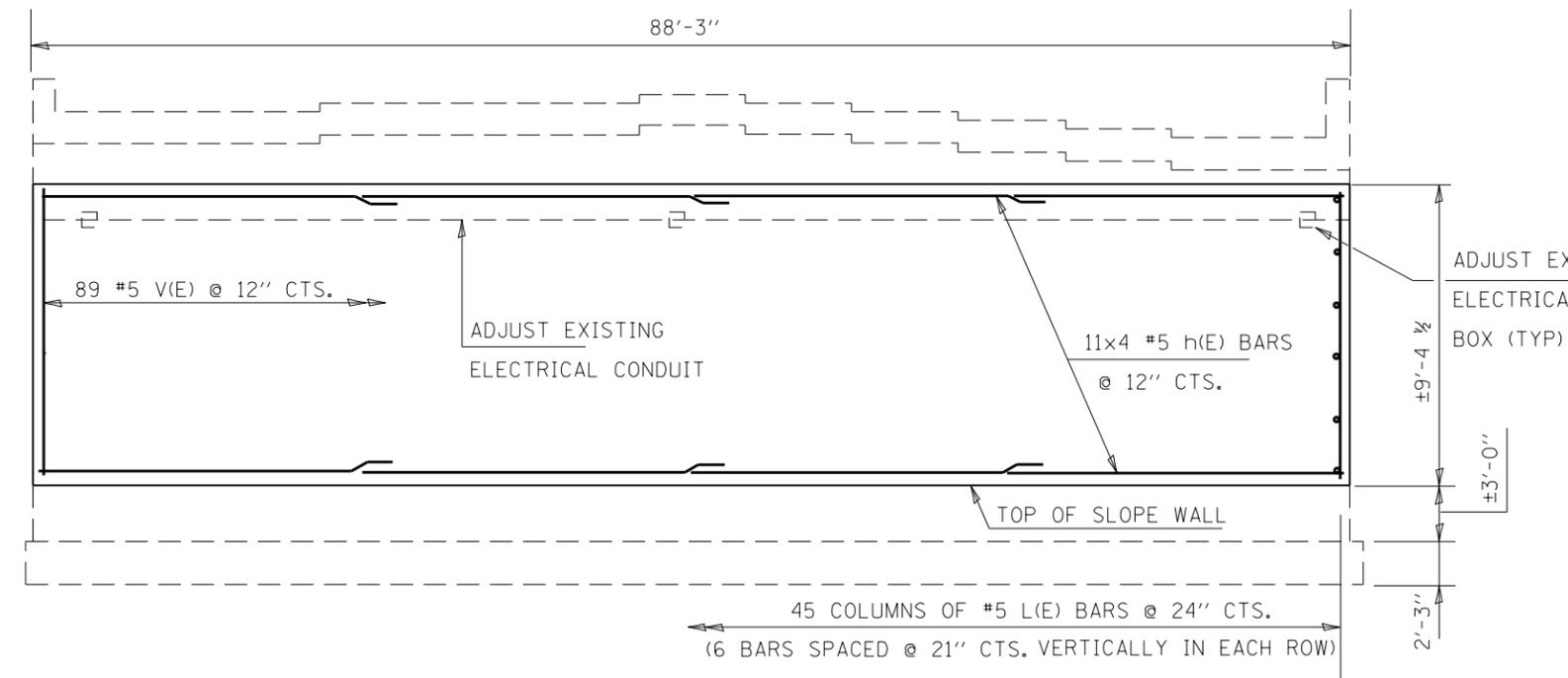


### LEGEND:

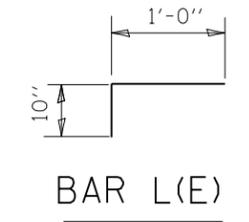
- STRUCTURAL REPAIR OF CONCRETE ≤ 5"
- STRUCTURAL REPAIR OF CONCRETE > 5"
- RIPRAP



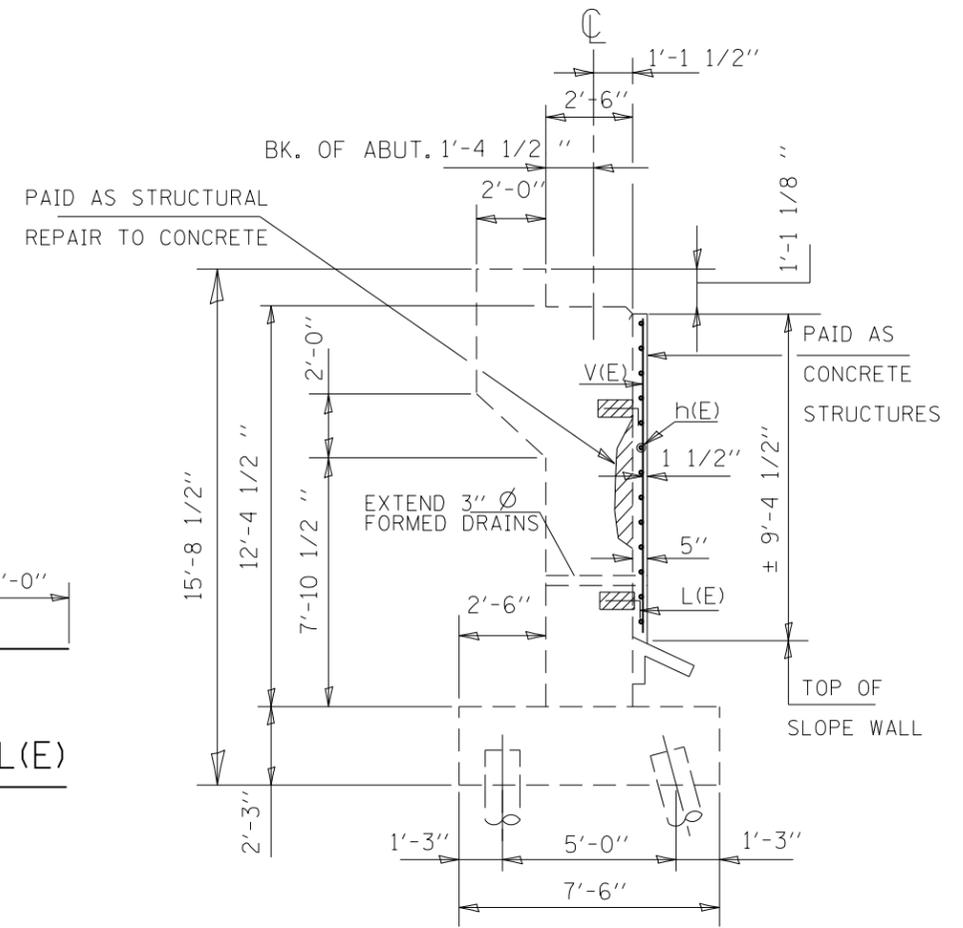
PLAN



EAST ABUTMENT ELEVATION



BAR L(E)



SECTION A-A

BILL OF MATERIALS (EAST ABUTMENT)

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	44	#5	23'-1"	—
L(E)	270	#5	1'-10"	—
V(E)	89	#5	9'-0"	—
REINFORCEMENT BARS, (EPOXY COATED)			LBS	2420
CONCRETE STRUCTURES			CU.YD.	13.0

BAR LAP

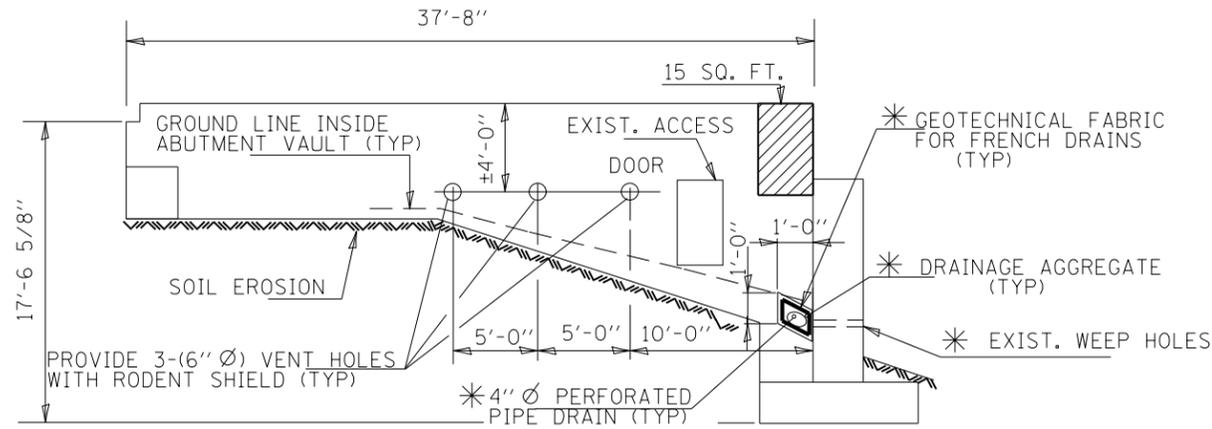
SIZE	LAP
#5	2'-2"

NOTES:

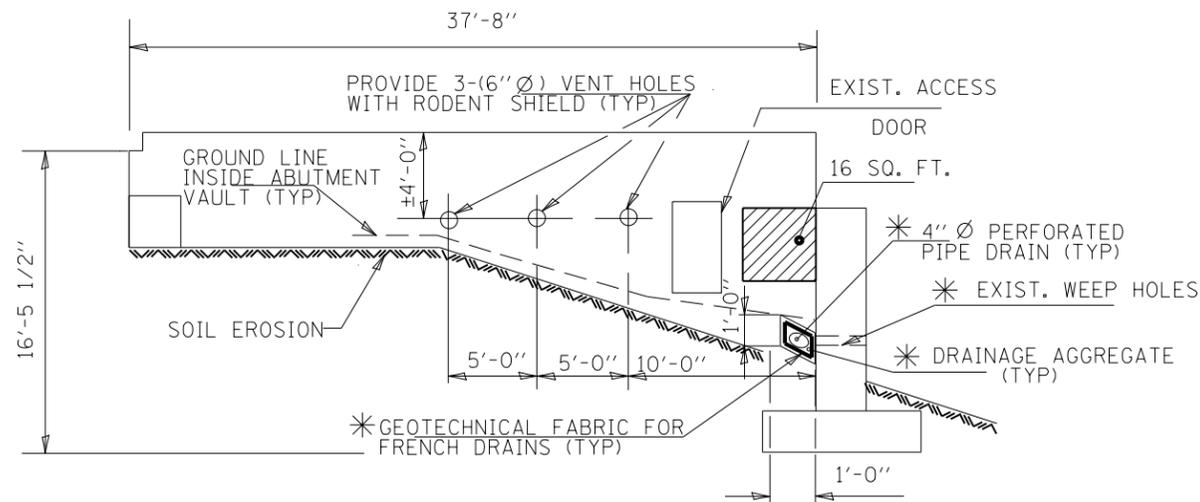
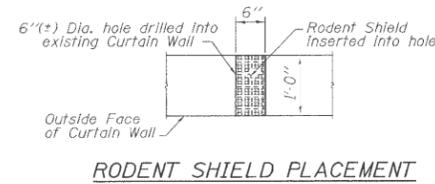
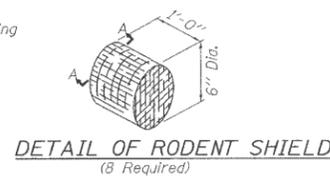
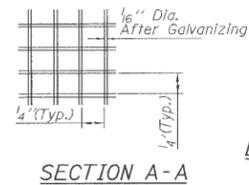
- #5 L(E) BARS SHALL BE EPOXY GROUTED ACCORDING TO ART. 584 OF THE STANDARD SPECIFICATIONS.
- THE CONCRETE FOR THE STRUCTURAL REPAIR TO CONCRETE SHALL USE THE SAME MATERIAL AND BE POURED AT THE SAME TIME AS THE CONCRETE STRUCTURES.
- ADJUST ANY EXISTING ELECTRICAL ITEMS AND MARKER NAME PLATES TO NEW FACE OF ABUTMENT.

LEGEND





**EAST ABUTMENT CURTAIN WALL  
LOOKING SOUTH**



**WEST ABUTMENT CURTAIN WALL  
LOOKING NORTH**

**LEGEND:**

STRUCTURAL REPAIR OF CONCRETE ≤ 5"

**NOTES:**

COST OF CORING 12 VENT HOLES (3 EACH SIDE AT EACH ABUTMENT) AND SHIELDS INCLUDED WITH "STRUCTURAL REPAIR OF CONCRETE ≤ 5".

\* CLEAN EXISTING WEEP HOLE IN THE EXIST. WINGWALL TO ACCOMODATE THE 4"Ø PERFORATED PIPE DRAIN. AFTER INSTALLATION SEAL AROUND THE PIPE DRAIN. COST INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4".

EXCAVATED SOIL FOR PIPE UNDERDRAIN INSTALLATION SHALL BE PLACED ON TOP OF SLOPED GROUND INSIDE VAULT. COST INCLUDED IN " PIPE UNDERDRAIN FOR STRUCTURES 4".

**BILL OF MATERIALS (CURTAIN WALLS)**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT.	31.0

\*FAI 290 & FAP 342

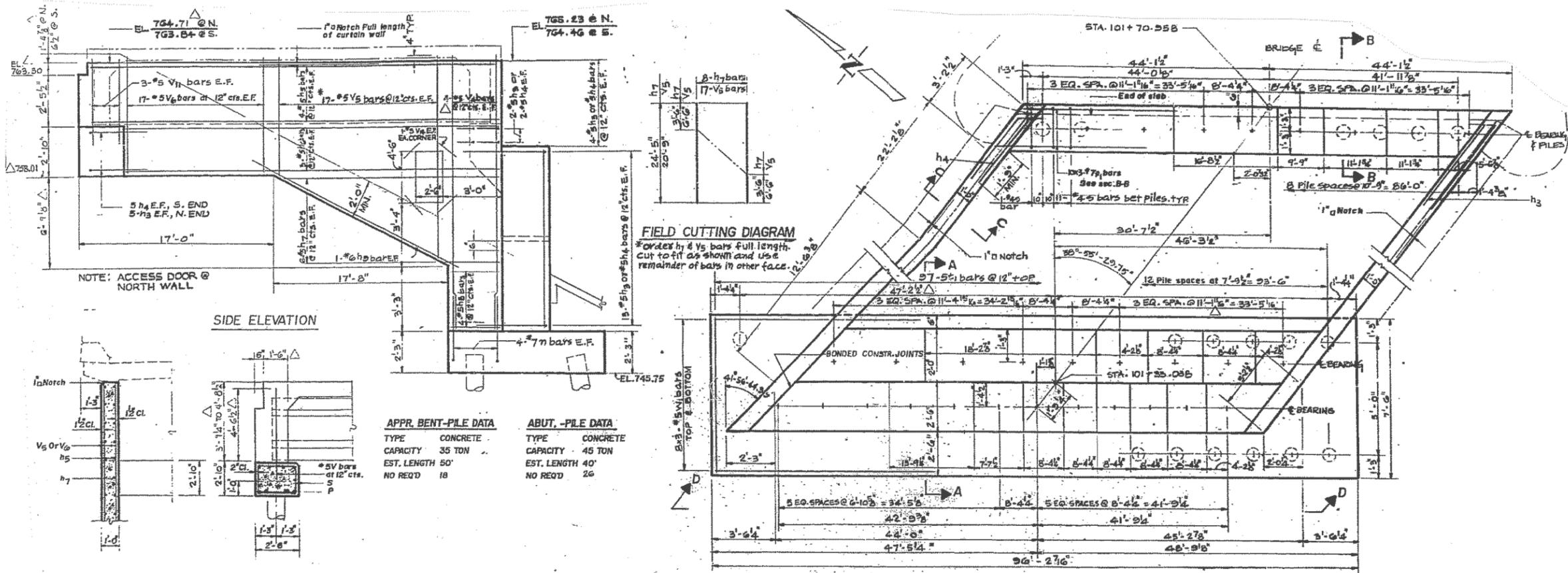
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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISD -
\$MODELNAME\$	PLOT DATE = 8/27/2012	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

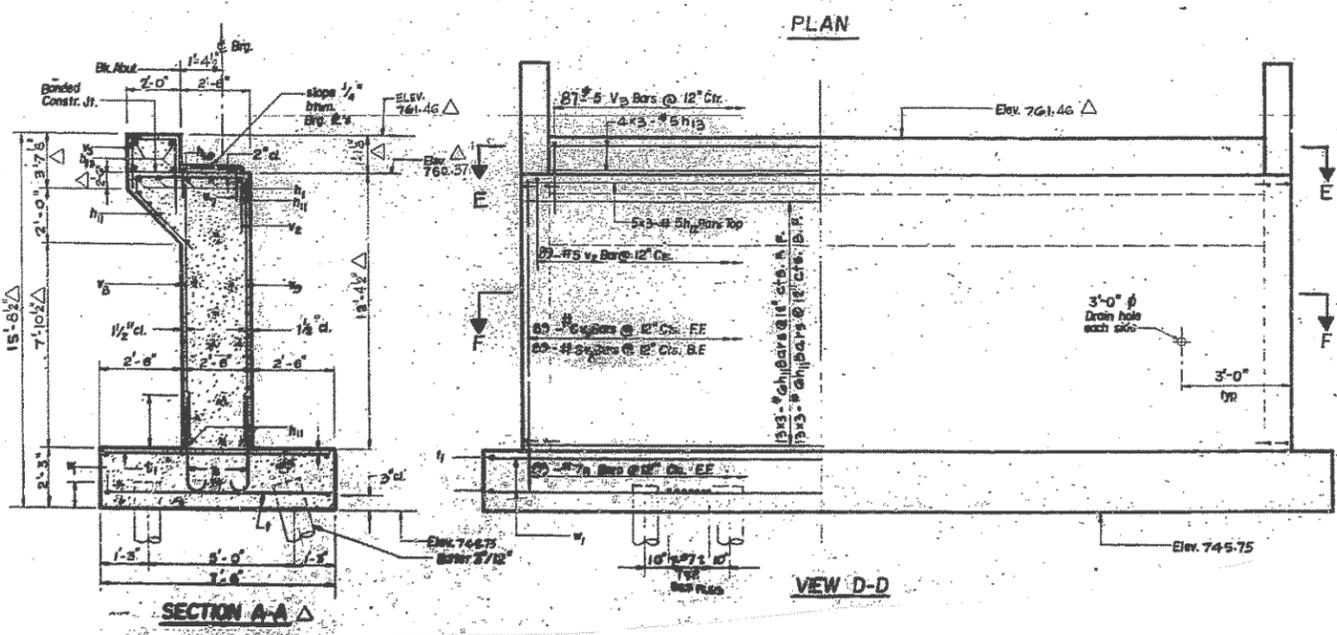
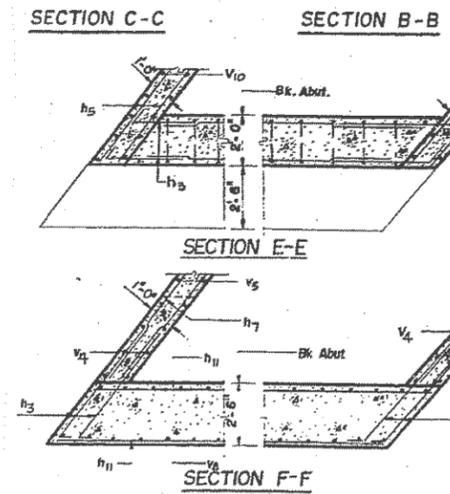
**LOCATION NO 1. IL 53 EXTENSION AT LAKE-COOK RD (SN 016-3215)  
CURTAIN WALL REPAIRS**

SCALE: \_\_\_\_\_ SHEET 5 OF 7 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-026 BR	COOK & DuPAGE	29	9
CONTRACT NO. 60770			ILLINOIS FED. AID PROJECT	

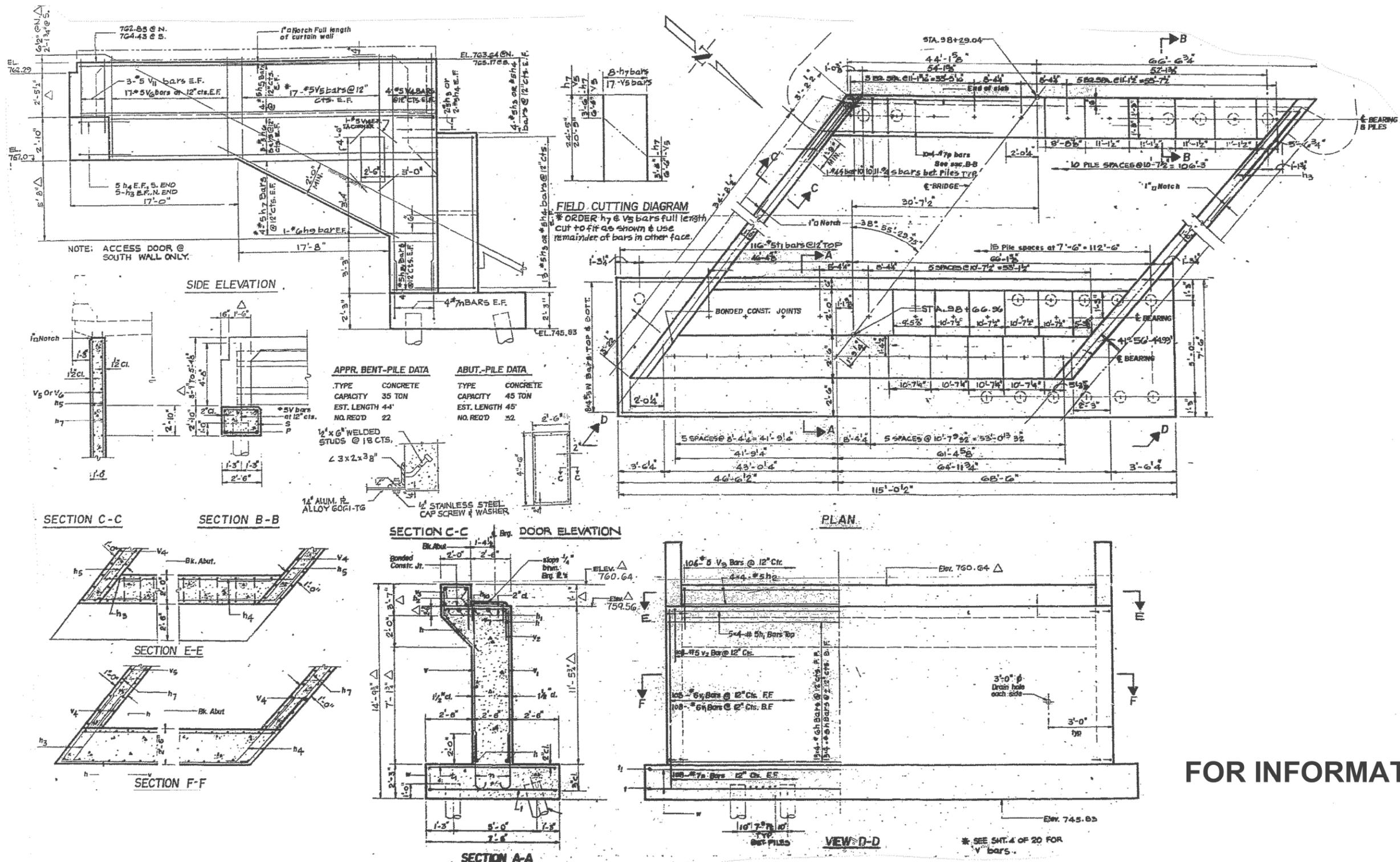


APPR. BENT-PILE DATA		ABUT. - PILE DATA	
TYPE	CONCRETE	TYPE	CONCRETE
CAPACITY	35 TON	CAPACITY	45 TON
EST. LENGTH	50'	EST. LENGTH	40'
NO REQD	18	NO REQD	26



FOR INFORMATION ONLY

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION NO 1. IL 53 EXTENSION AT LAKE-COOK RD (SN 016-3215)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\gorengautab\d0101671\022-0091.dgn	PLOT SCALE = 100.0000' / 1"	DRAWN -	REVISD -		EAST ABUTMENT	*	2012-026 BR	COOK & DuPAGE	29	10
\$MODELNAME\$	PLOT DATE = 8/27/2012	CHECKED -	REVISD -		SCALE: _____	SHEET 6 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 60770	
		DATE -	REVISD -						ILLINOIS FED. AID PROJECT	

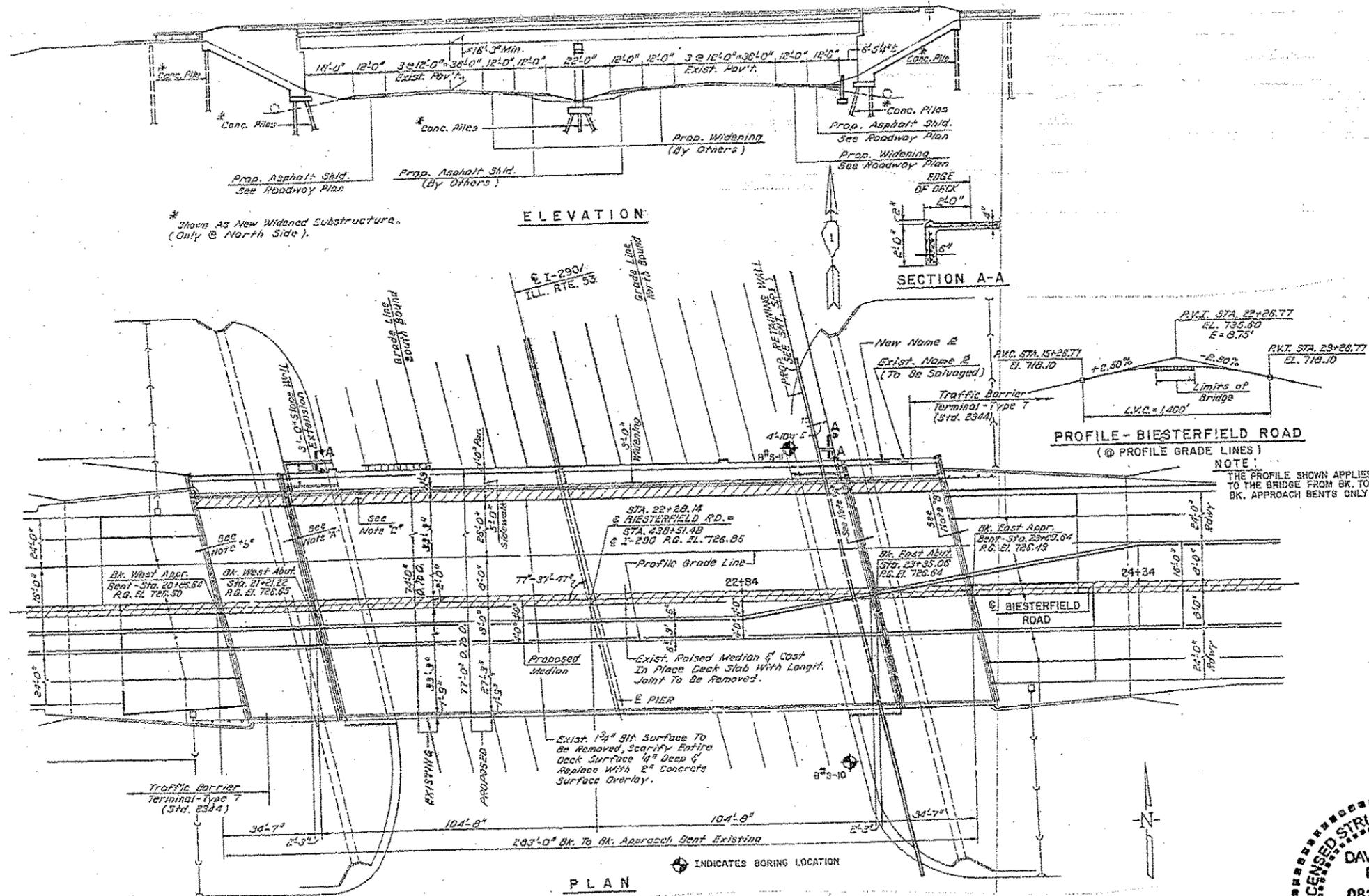


**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION NO 1. IL 53 EXTENSION AT LAKE-COOK RD (SN 016-3215) WEST ABUTMENT</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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\$MODELNAME\$	PLOT DATE = 8/27/2012	CHECKED -	REVISED -				CONTRACT NO. 60T70						
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT						

SCALE: \_\_\_\_\_ SHEET 7 OF 7 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

\* FAI 290 & FAP 342



\* Shown as New Widened Substructure.  
(Only @ North Side).

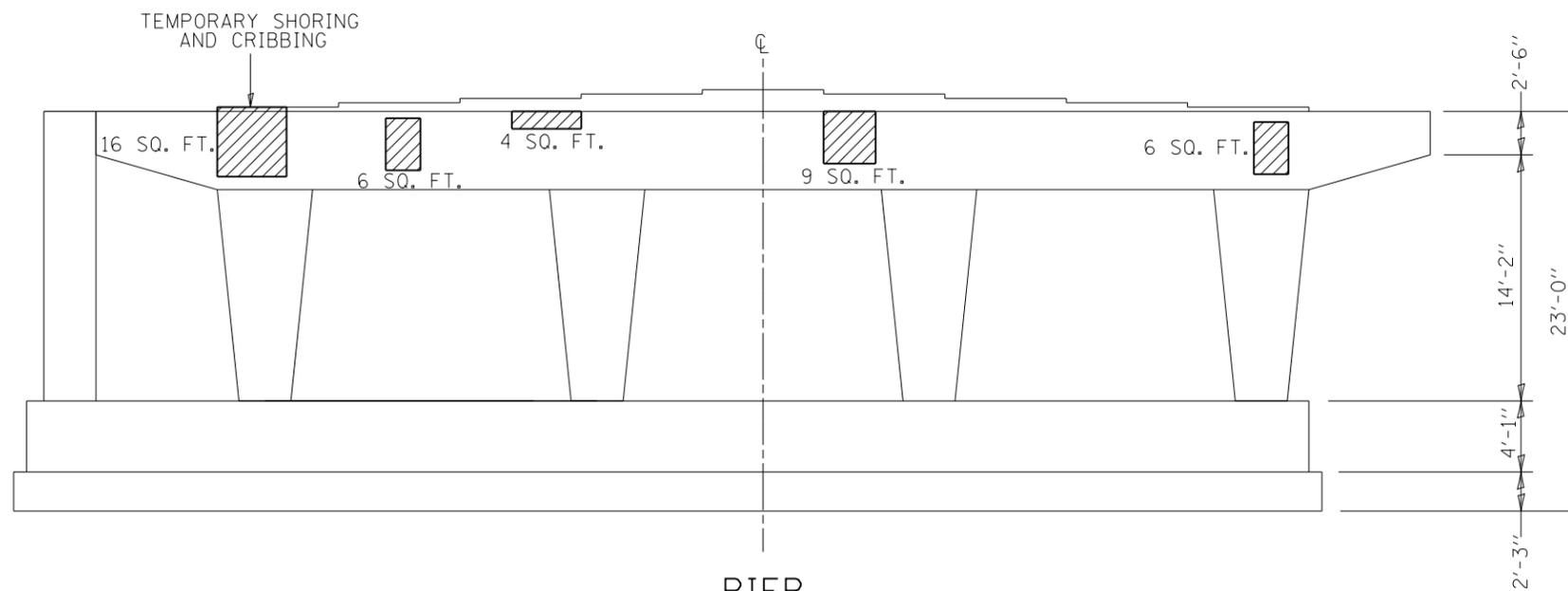
NOTE:  
THE PROFILE SHOWN APPLIES  
TO THE BRIDGE FROM BK. TO  
BK. APPROACH BENTS ONLY.



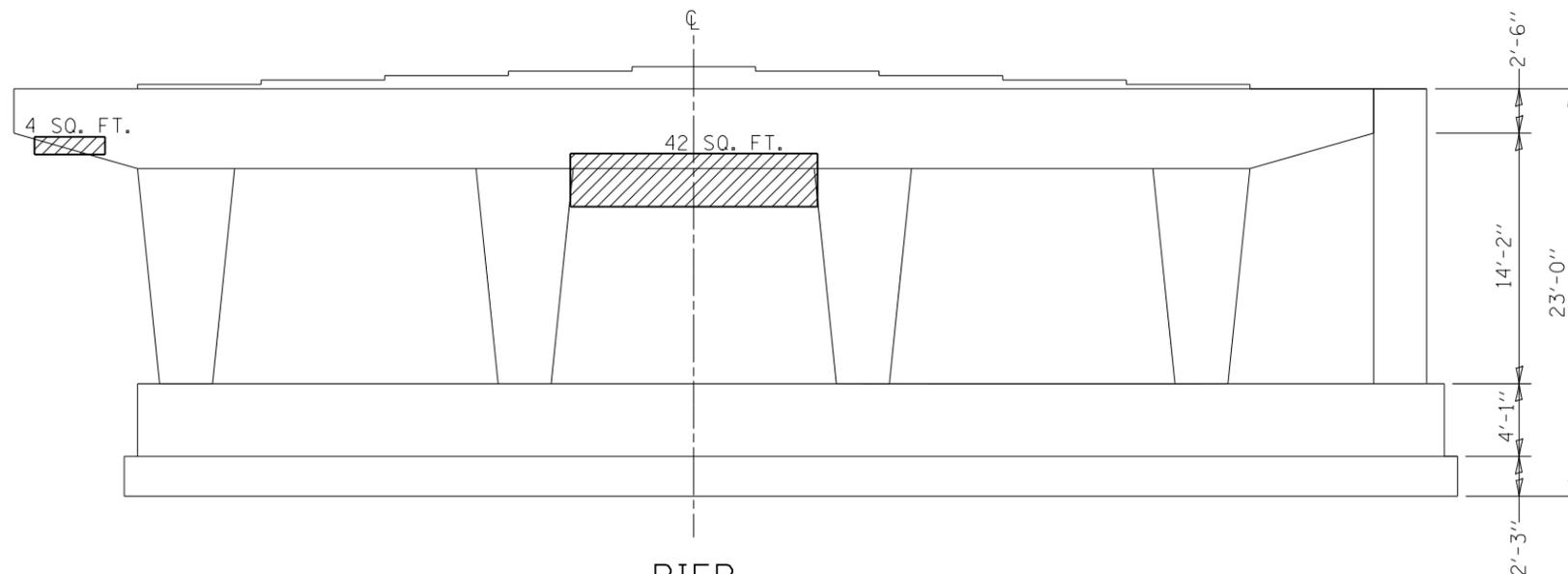
*David Carl Puzey* 9/25/12  
Expires 11/30/14

\* FAI 290 & FAP 342

FILE NAME *	USER NAME * gorenoutab	DESIGNED - A.G. 08/24/2012	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION NO 2. I-290 AT BIESTERFIELD RD (SN 016-0960)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\work\p\idat\gorenoutab\id191671\22-0991.dgn		DRAWN -	REVISED -		SCALE: _____	SHEET 1 OF 9 SHEETS	*	2012-026 BR	COOK & DUPAGE	29	12
		CHECKED - A.M. 08/24/2012	REVISED -			STA. _____ TO STA. _____					CONTRACT NO. 60170
#MODELNAME*	PLOT DATE * 6/27/2012	DATE -	REVISED -								ILLINOISIFIED AID PROJECT



PIER  
ELEVATION  
LOOKING EAST



PIER  
ELEVATION  
LOOKING WEST

LEGEND

 STRUCTURAL REPAIR OF CONCRETE  $\leq$  5"

TABLE OF REACTIONS

	REACTIONS (Kips)	
	ABUTS.	PIER
DL	55	183.2
LL	46.6	79.8
IMP.	10.2	17.4
TOTAL	111.8	280.4

BILL OF MATERIALS (PIER)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	SQ. FT.	87.0
TEMPORARY SHORING AND CRIBBING	EACH	1.0

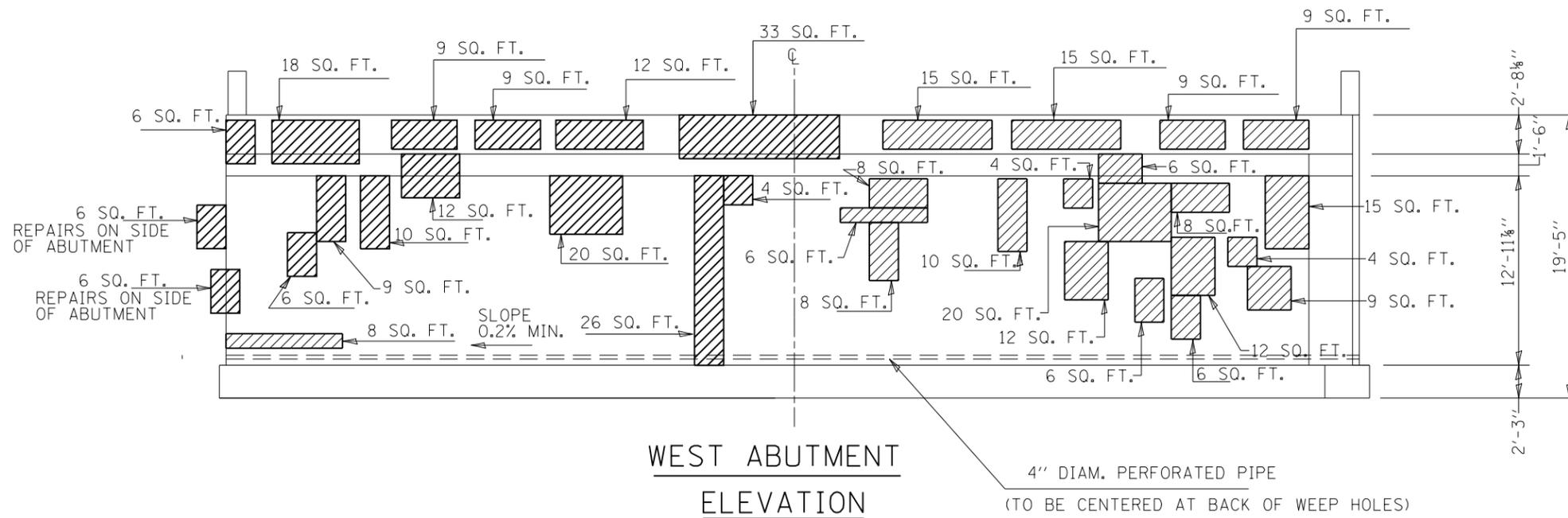
TOTAL BILL OF MATERIALS  
(SN 016-0960)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	SQ. FT	877.0
STRUCTURAL REPAIR OF CONCRETE $>$ 5"	SQ. FT	8.0
TEMPORARY SHORING AND CRIBBING	EACH	1
CONCRETE REMOVAL	CU YD	1.4
CONCRETE STRUCTURES	CU YD	1.4
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152

\* FAI 290 & FAP 342

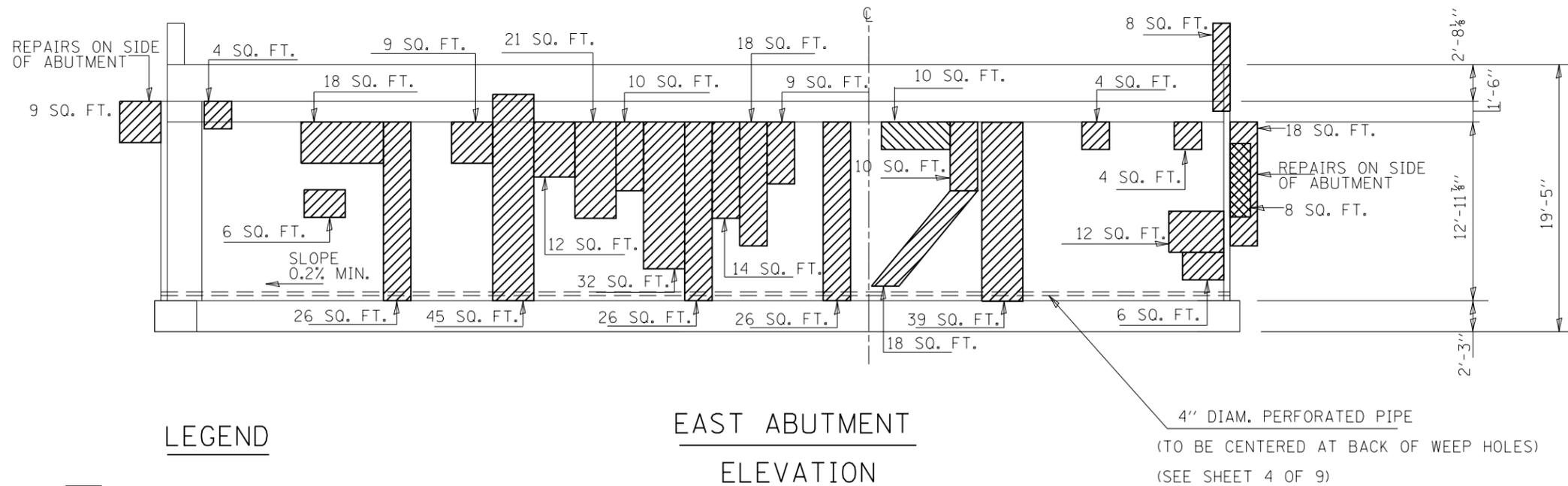
FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION NO 2. I-290 AT BIESTERFIELD RD (SN 016-0960) PIER REPAIRS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	2012-0091.dgn	DRAWN -	REVISED -			*	2012-026 BR	COOK & DuPAGE	29	13	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60T70					
	PLOT DATE = 8/27/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.



**BILL OF MATERIALS  
(EAST & WEST ABUTS)**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT.	790.0
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT.	8.0
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152



**NOTE:**

COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4". "

**LEGEND**

- STRUCTURAL REPAIR OF CONCRETE ≤ 5"
- STRUCTURAL REPAIR OF CONCRETE > 5"

**BILL OF MATERIALS**  
**(CURTAIN WALLS)**  
**(SEE SHT 8 OF 9)**

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU YD	1.4
CONCRETE REMOVAL	CU YD	1.4

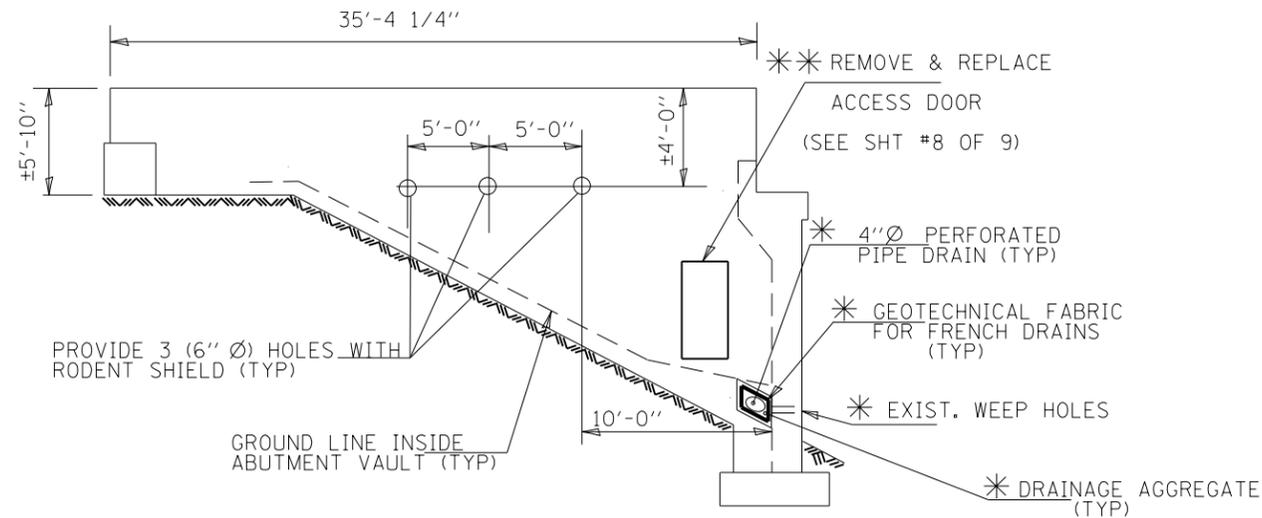
**NOTES:**

COST OF CORING 12 VENT HOLES (3 EACH SIDE AT EACH ABUTMENT) AND SHIELDS INCLUDED WITH "STRUCTURAL REPAIR OF CONCRETE = 5".

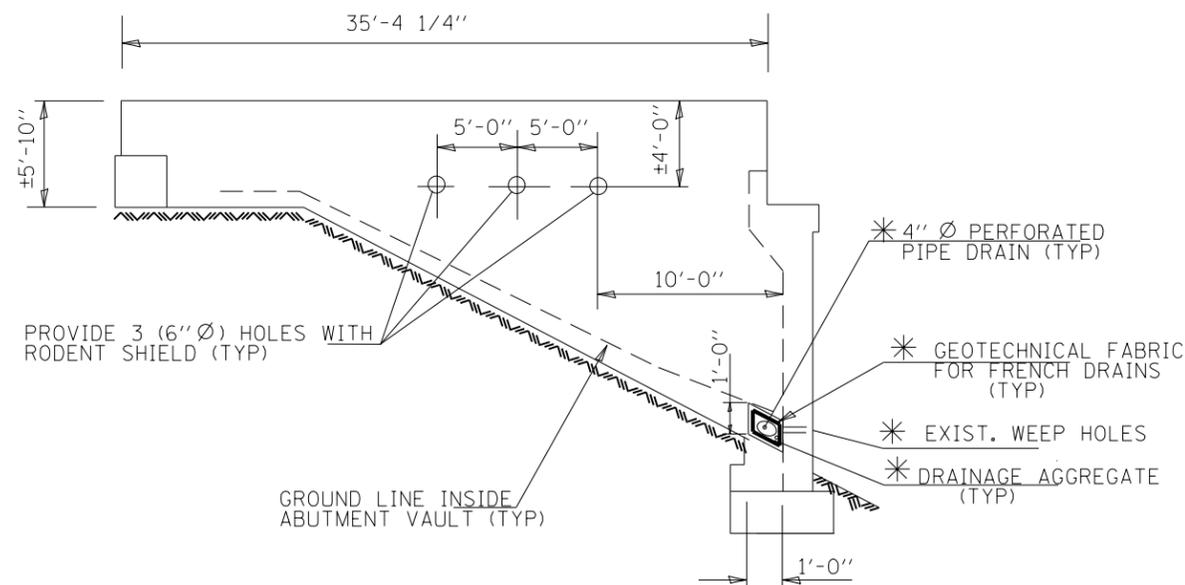
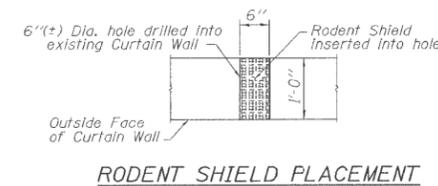
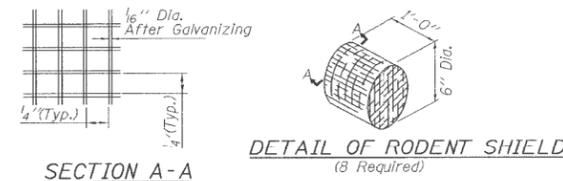
\* CLEAN EXISTING WEEP HOLE IN THE EXIST. WINGWALL TO ACCOMODATE THE 4" Ø PERFORATED PIPE DRAIN. AFTER INSTALLATION SEAL AROUND THE PIPE DRAIN. COST INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4".

EXCAVATED SOIL FOR PIPE UNDERDRAIN INSTALLATION SHALL BE PLACED ON TOP OF SLOPED GROUND INSIDE VAULT. COST INCLUDED IN " PIPE UNDERDRAIN FOR STRUCTURES 4".

\*\* COST OF ACCESS DOOR REMOVAL AND REPLACEMENT (2 DOORS TOTAL) INCLUDED IN COST OF "CONCRETE STRUCTURES".



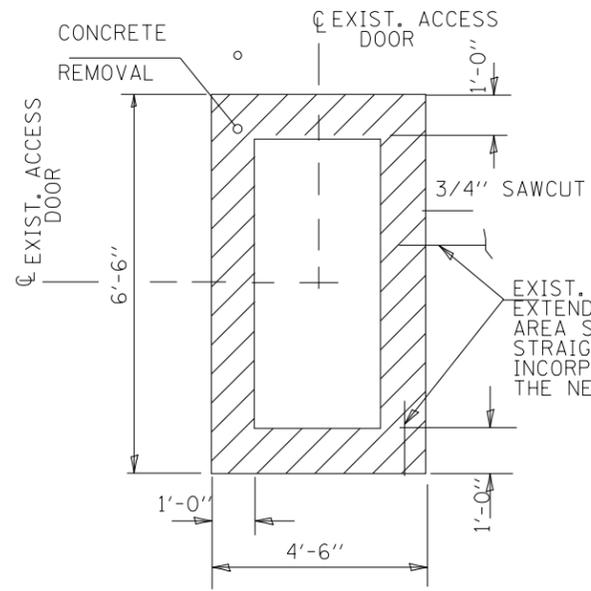
**SOUTHWEST CURTAIN WALL**  
**NORTHWEST CURTAIN WALL**



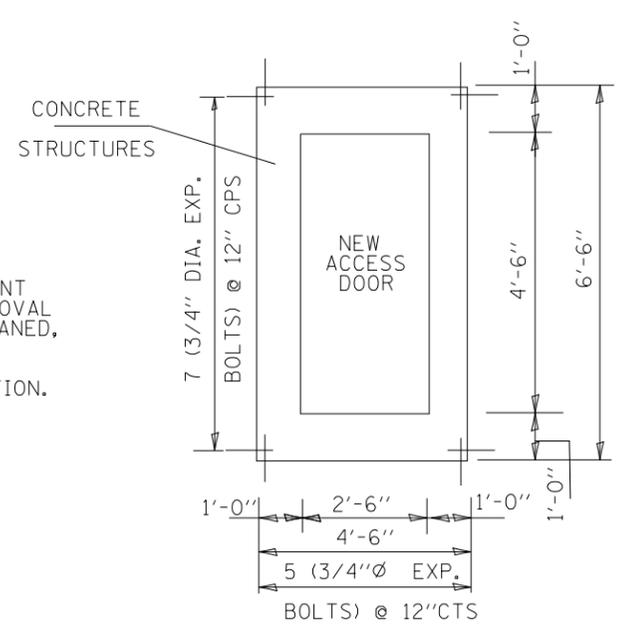
**NORTHEAST CURTAIN WALL**  
**SOUTHEAST CURTAIN WALL**

\* FAI 290 & FAP 342

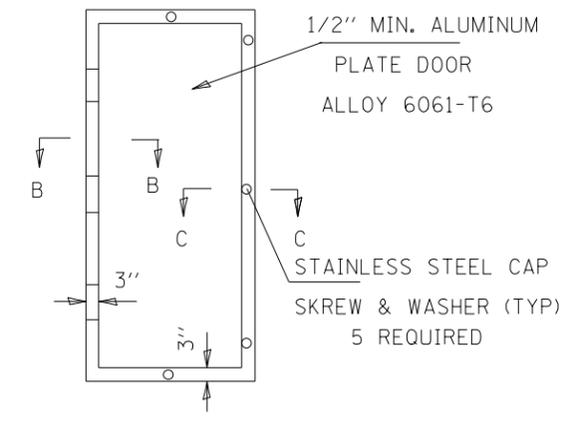
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ct:\pw_work\pwidot\gorengautab\d0101671\022-0091.dgn	DRAWN -	REVISD -	*			2012-026 BR	29	15		
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISD -			CONTRACT NO. 60T70				
	PLOT DATE = 9/13/2012	DATE -	REVISD -			ILLINOIS FED. AID PROJECT				
					SCALE: _____	SHEET 4 OF 9 SHEETS		STA. _____	TO STA. _____	



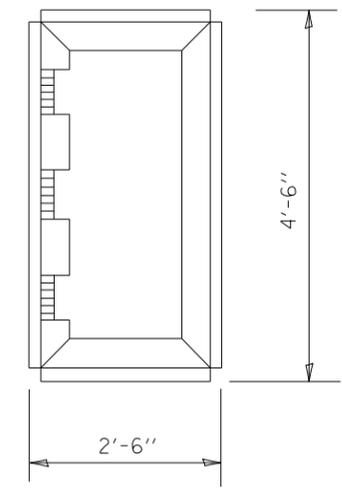
CONCRETE REMOVAL DETAIL



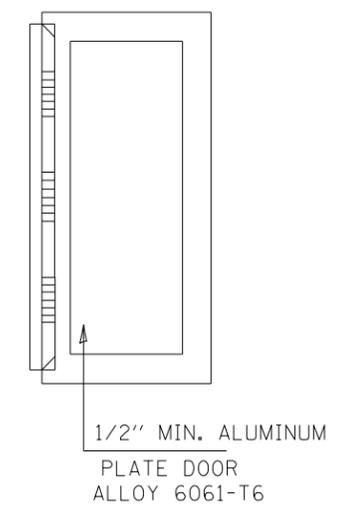
CONCRETE FILL AT ACCESS HOLE



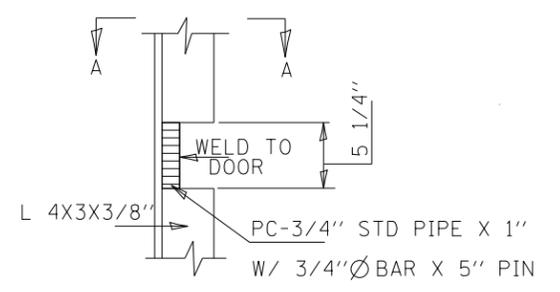
PROPOSED DOOR



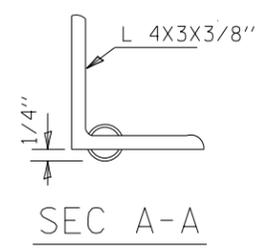
FRAME



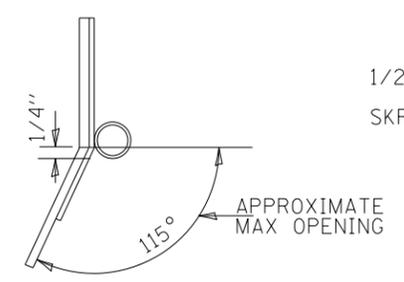
FRAME WITH COVER



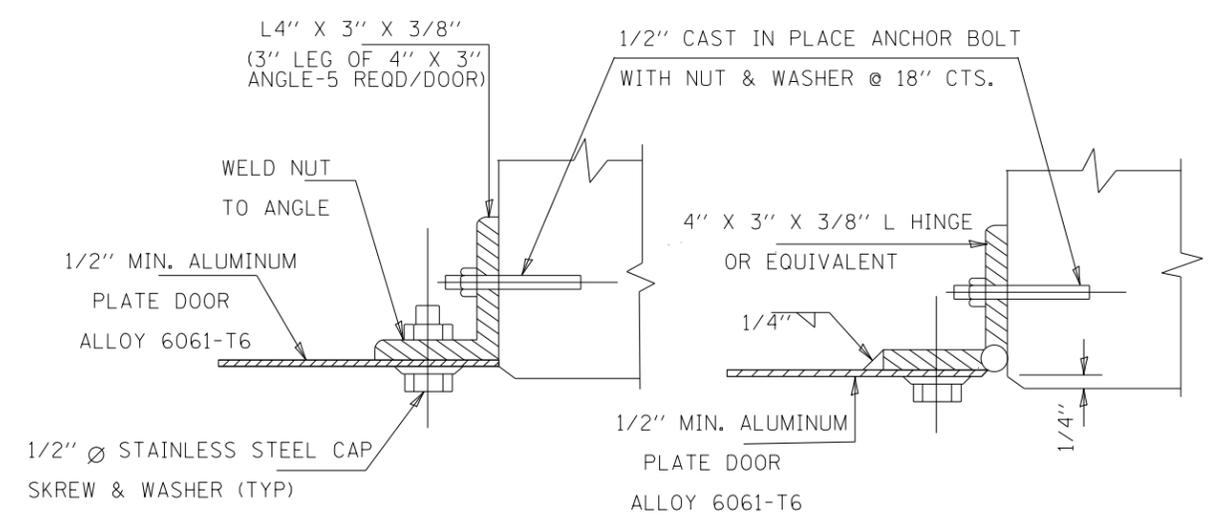
HINGE DETAIL



SEC A-A



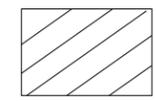
APPROXIMATE MAX OPENING



SEC B-B

SEC C-C

LEGEND



CONCRETE REMOVAL

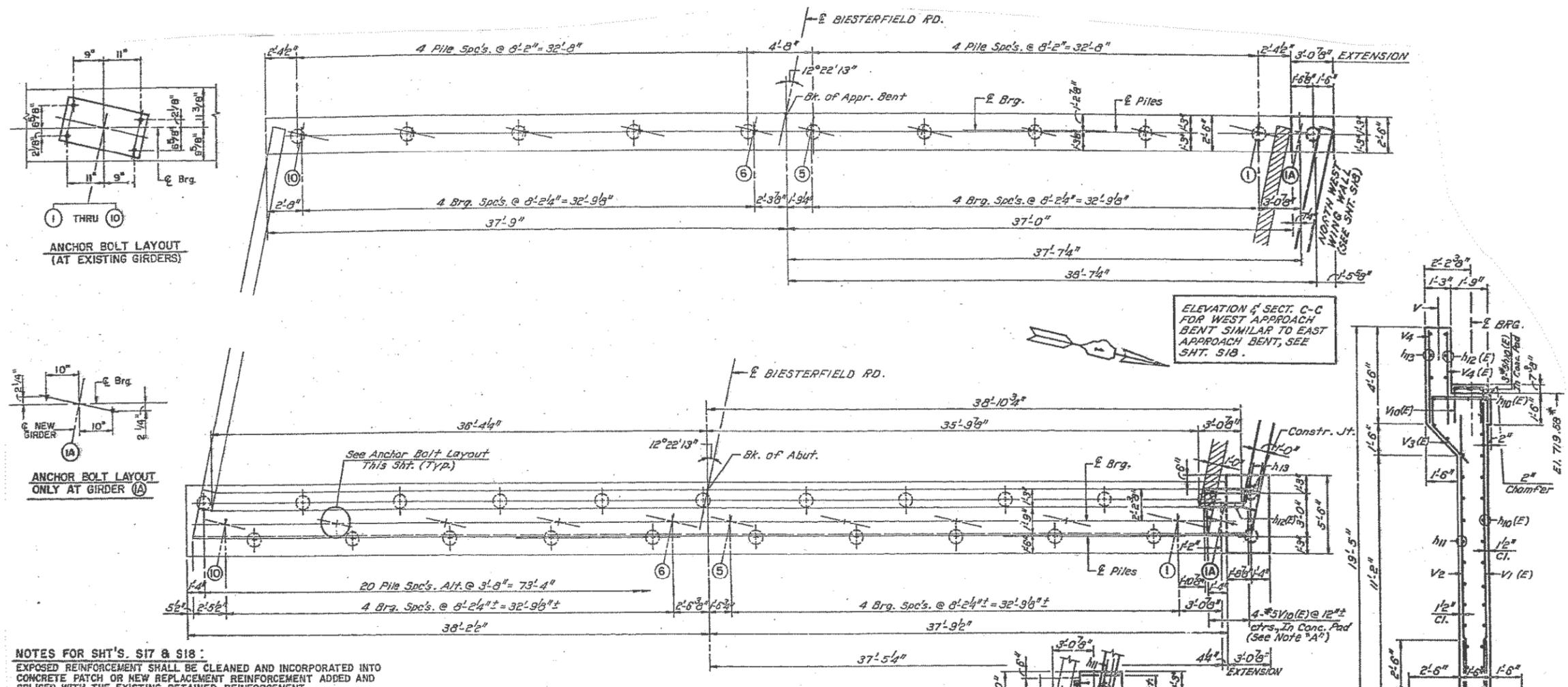
NOTES:

- EXPANSION BOLTS SHALL BE 3/4" DIAMETER HOOKED BOLTS AND SHALL EXTEND 9" MIN. INTO CONCRETE.
- PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH EPOXY PAINT.
- WORK THIS SHEET WITH SHEET #4 OF 9.

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION NO 2. I-290 AT BIESTERFIELD RD (SN 016-0960)</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw\work\p\idot\gorengautab\d0101671\022-0091.dgn		DRAWN -	REVISD -		<b>ACCESS DOOR REPAIRS</b>		*	2012-026 BR	COOK & DuPAGE	29	16	
\$MODELNAME\$	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISD -		SCALE: _____	SHEET 5 OF 9 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 8/27/2012	DATE -	REVISD -									

\*FAI 290 & FAP 342



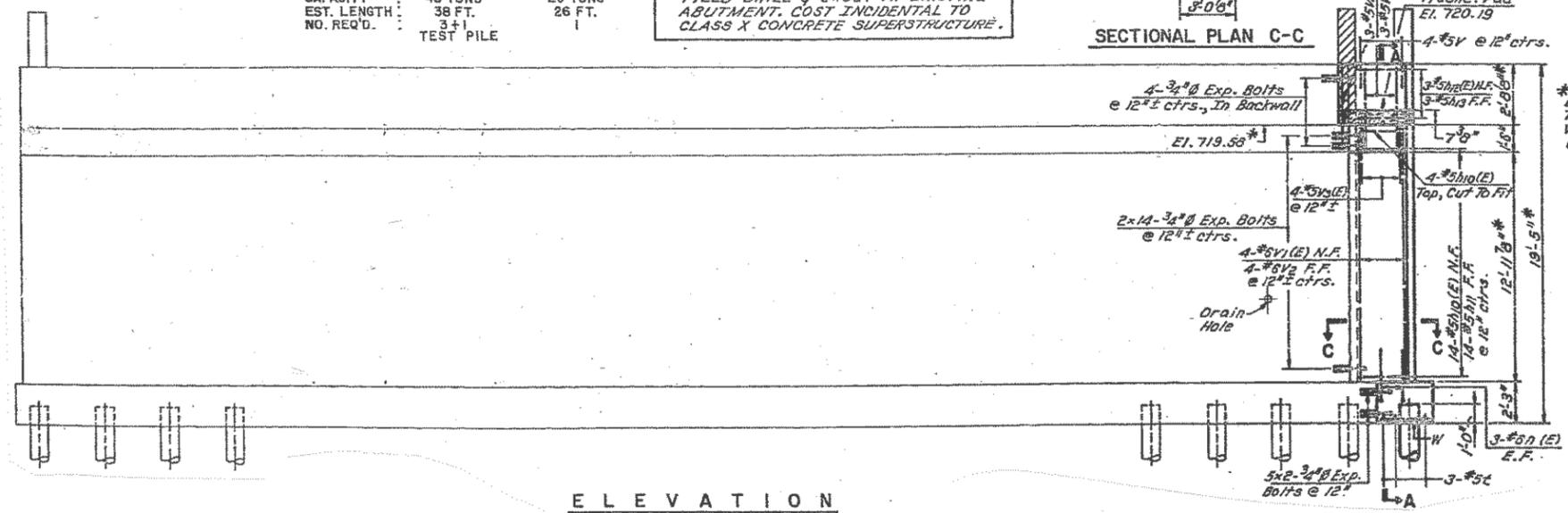
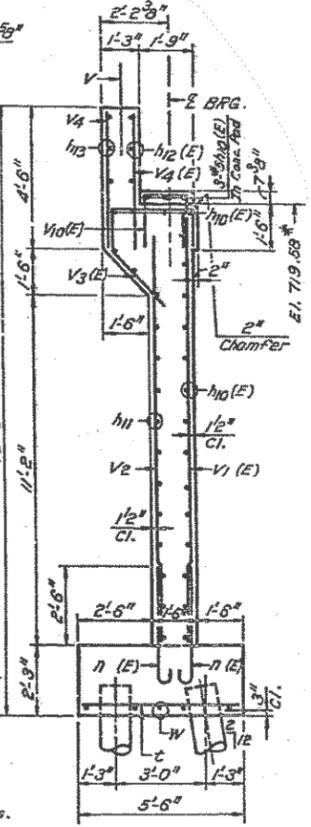
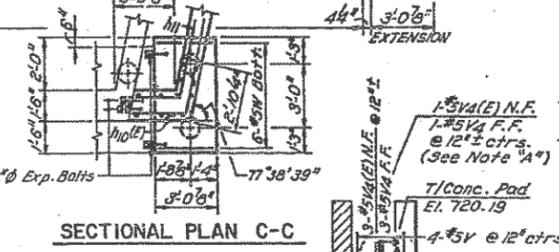


**NOTES FOR SHT'S. S17 & S18:**  
 EXPOSED REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO CONCRETE PATCH OR NEW REPLACEMENT REINFORCEMENT ADDED AND SPLICED WITH THE EXISTING RETAINED REINFORCEMENT.  
 FILL HOLES AT THE ROD ENDS WHERE PATCH HAS SPALLED OFF AND REMOVE LOOSE PATCHES.  
 FILL HOLES AS SPECIFIED FOR REPAIR OF CONCRETE STRUCTURES.

**PILE DATA**

TYPE	ABUTMENT	APPROACH
CAPACITY	CONCRETE	BENT
EST. LENGTH	45 TONS	CONCRETE
NO. REQ'D.	38 FT.	25 TONS
	3+1	26 FT.
	TEST PILE	1

**NOTE "A"**  
 BARS V4, V4(E) AND V10(E) TO BE FIELD DRILL & GROUT AT EXISTING ABUTMENT. COST INCIDENTAL TO CLASS X CONCRETE SUPERSTRUCTURE.



\* Dimensions & Elevation To Match Exist. & To Be Verified By The Contractor.

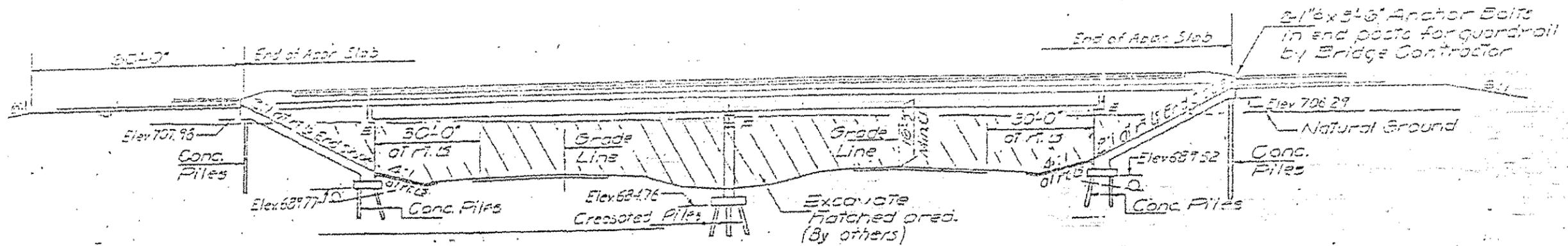
**FOR INFORMATION ONLY**

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION NO 2. I-290AT BIESTERFIELD RD (SN 016-0960) WEST ABUTMENT	F.A.I. RTE.	SECTION	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\gorengautab\d0101671\022-0091.dgn	DRAWN -	REVISED -	* 2012-026 BR			COOK & DuPAGE	29	18	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 60T70						
\$MODELNAME\$	DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

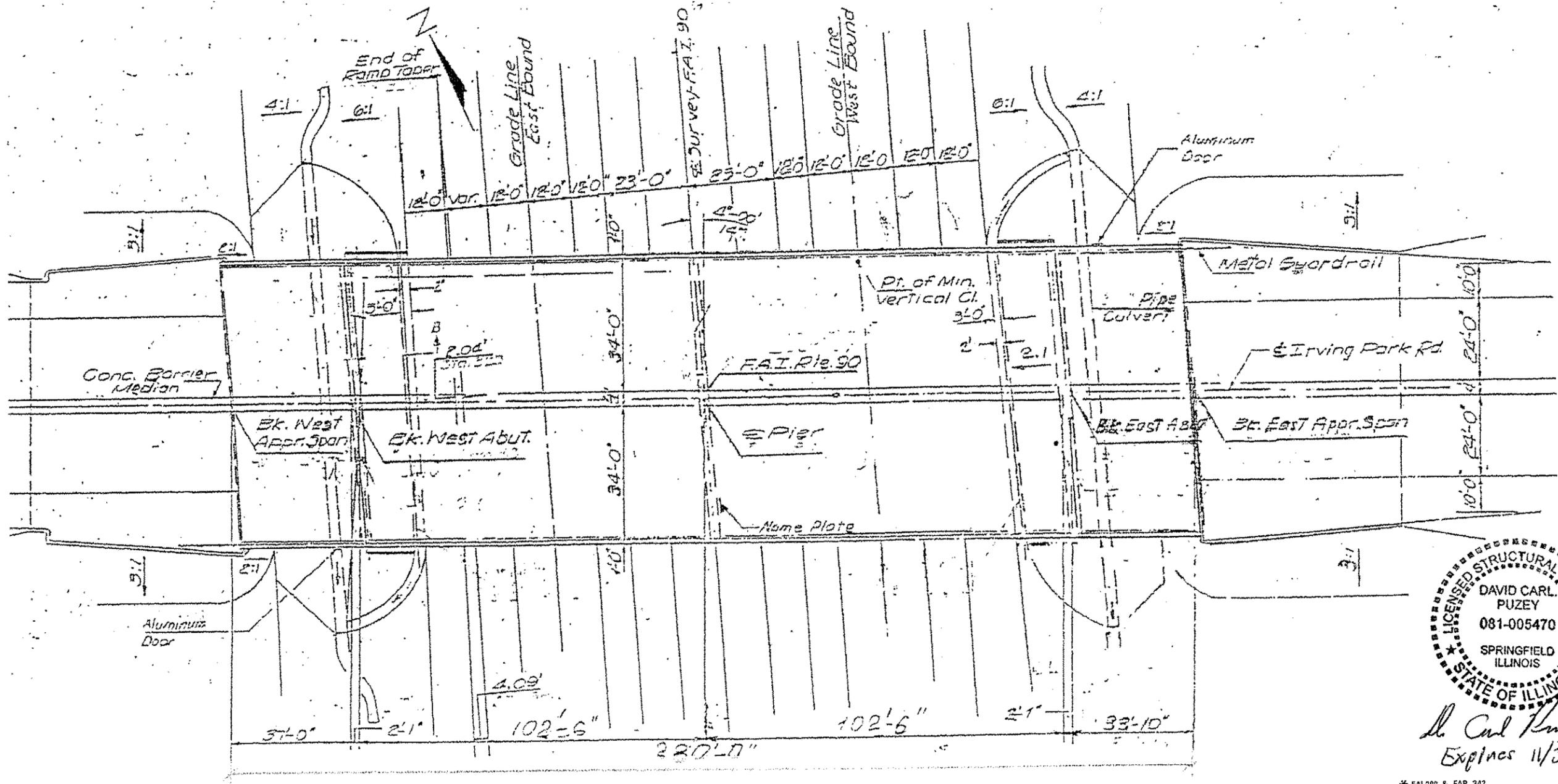
\* FAI 290 & FAP 342







ELEVATION



*David Carl Puzey* 9/25/12  
Expires 11/30/14

\* FAI 290 & FAP 342

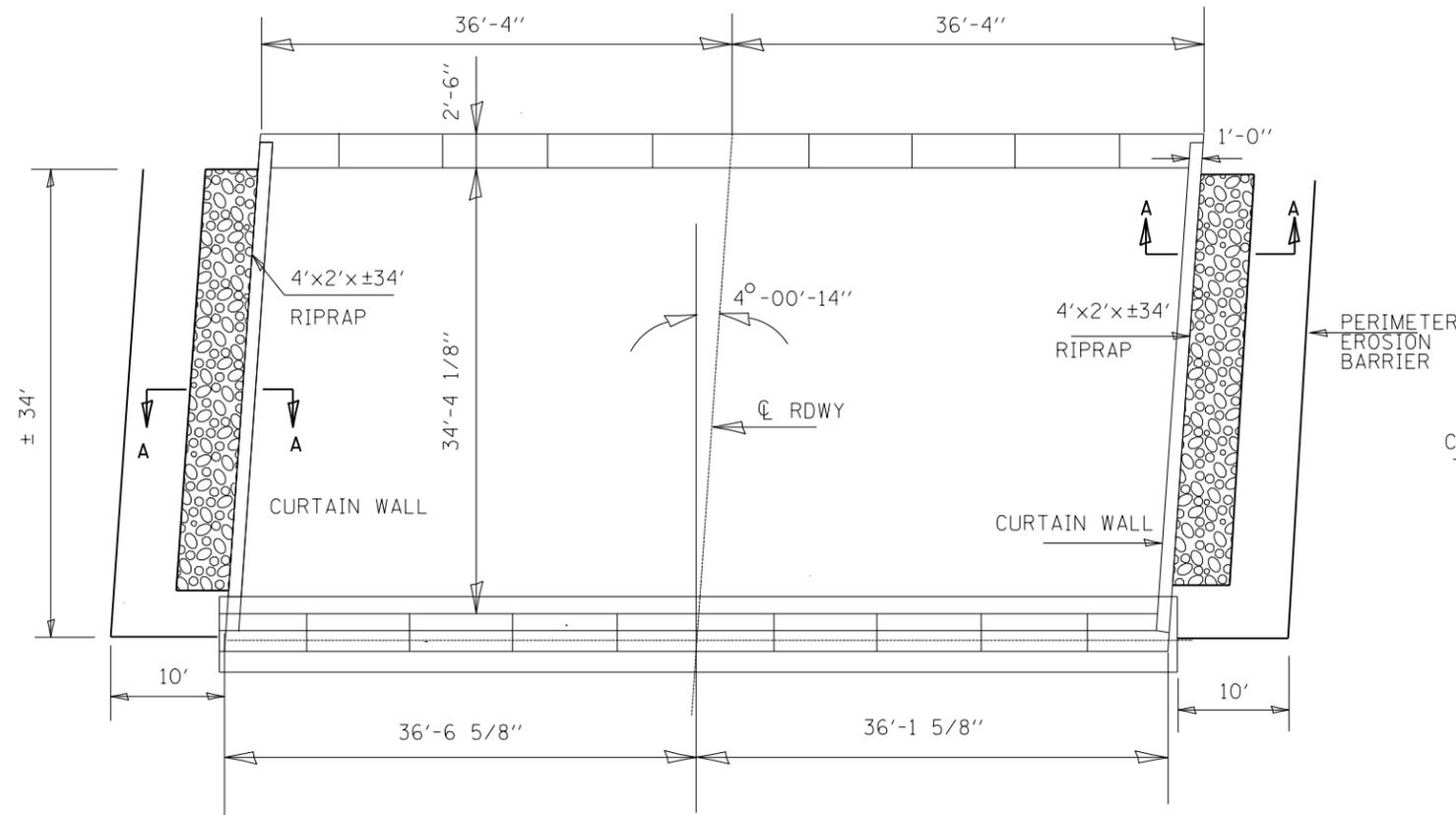
FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION NO 3. I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\work\roads\gorengautab\02101671\022-0091.dgn	gorengautab	A.C. 08/24/2012			GENERAL PLAN AND ELEVATION	*	2012-026 BR	COOK & DuPAGE	28	21
		CHECKED	REVISED		SCALE: _____					
		A.M. 08/24/2012			SHEET 1 OF 8 SHEETS	STA.	TO STA.			CONTRACT NO. 60770
		DATE	REVISED							ILLINOIS FED. AID PROJECT
		08/28/2012								

### TABLE OF REACTIONS

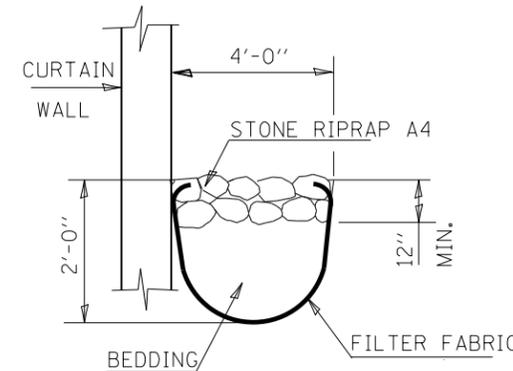
	REACTIONS (Kips)	
	ABUTS.	PIER
DL	49.1	172
SDL	46.7	77.4
LL	10.3	17
IMP.	10.3	17
TOTAL	106.1	266.4

### TOTAL BILL OF MATERIALS (SN 022-0091)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	1605
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	16
REINFORCED BARS, (EPOXY COATED)	LBS	2810
CONCRETE STRUCTURES	CU. YD	17.0
TEMPORARY SHORING AND CRIBBING	EACH	20
PIPE UNDERDRAINS 4"	FOOT	152
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	42
EARTH EXCAVATION	CU. YD	40
FILTER FABRIC	SQ. YD	110
PERIMETER EROSION BARRIER	FOOT	150
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	152



PLAN  
WEST ABUTMENT



SECTION A-A

#### LEGEND:

- STRUCTURAL REPAIR OF CONCRETE ≤ 5"
- STRUCTURAL REPAIR OF CONCRETE > 5"
- RIPRAP

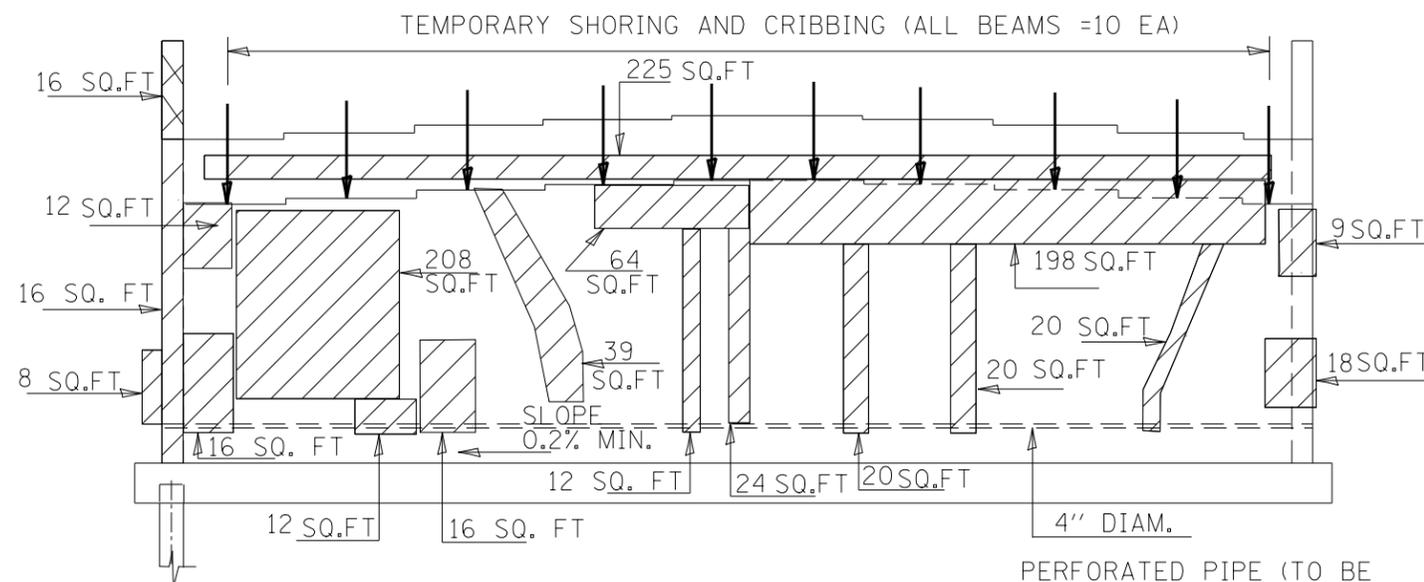
### BILL OF MATERIALS (WEST ABUT)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	937
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	16
TEMPORARY SHORING AND CRIBBING	EACH	10
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	31
FILTER FABRIC	SQ. YD	62
EARTH EXCAVATION	CU. YD	21
PERIMETER EROSION BARRIER	FOOT	100
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	76

#### NOTE:

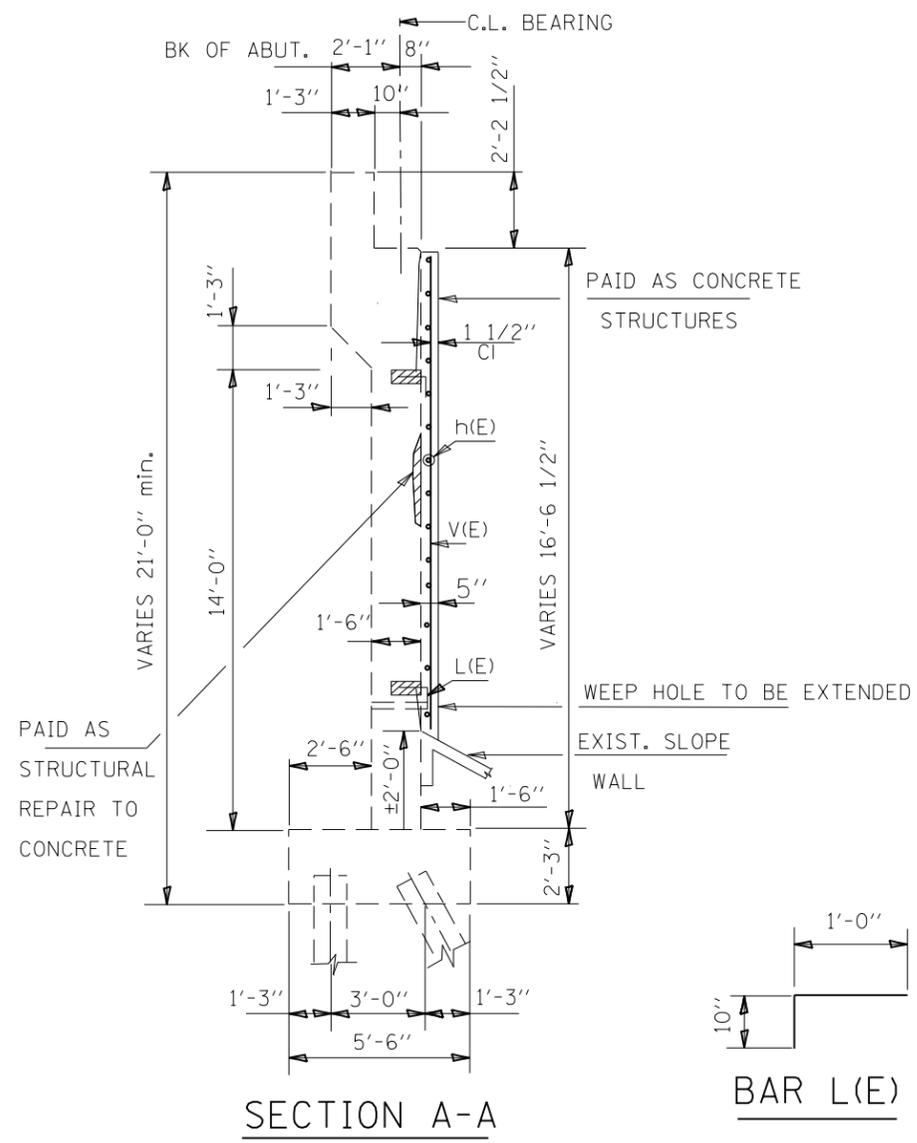
COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4". "

SUPPORT SYSTEM SHALL BE PLACED BEHIND THE EXISTING BARRIER WALL.

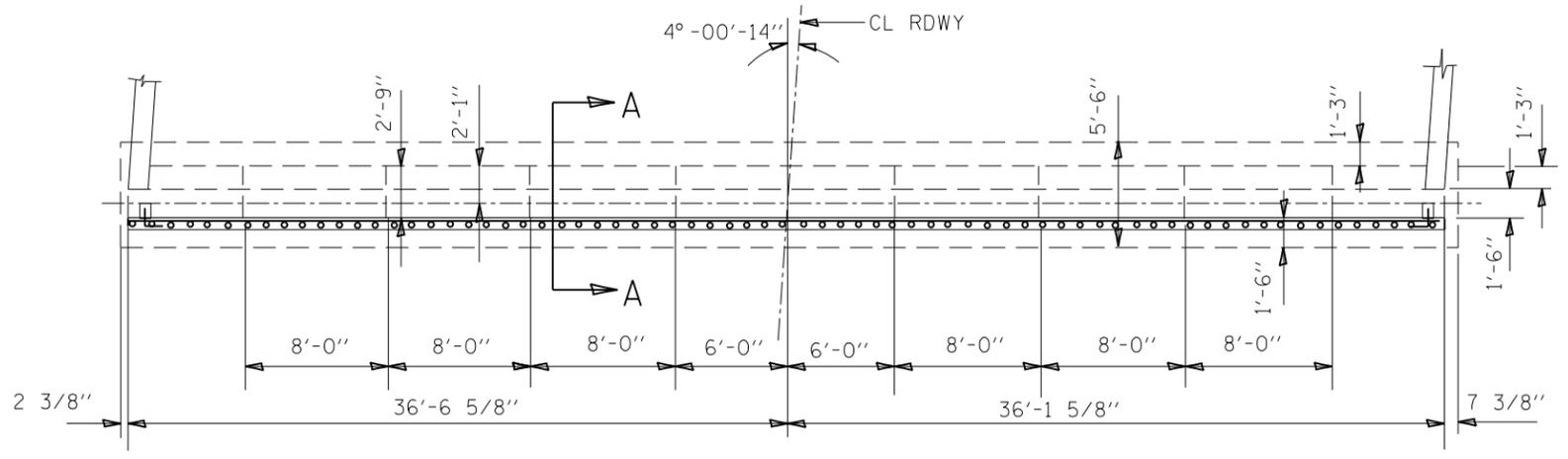


ELEVATION  
WEST ABUTMENT

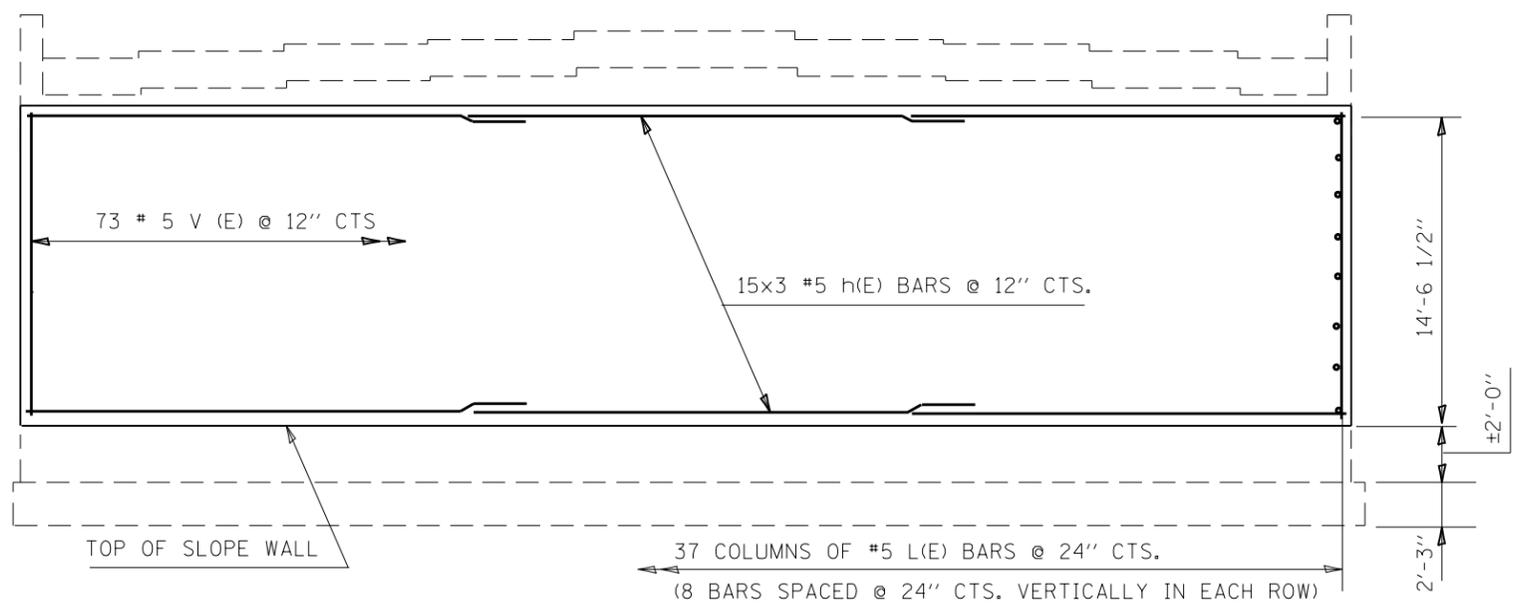
PERFORATED PIPE (TO BE CENTERED AT BACK OF WEEP HOLES)  
(SEE SHEET 6 OF 8 FOR DETAILS)



SECTION A-A



PLAN



ELEVATION

**NOTES:**

#5 L(E) BARS SHALL BE EPOXY GROUTED ACCORDING TO ART. 584 OF THE STANDARD SPECIFICATIONS.

THE CONCRETE FOR THE STRUCTURAL REPAIR TO CONCRETE SHALL USE THE SAME MATERIAL AND BE POURED AT THE SAME TIME AS THE CONCRETE STRUCTURES.

ADJUST ANY EXISTING ELECTRICAL ITEMS AND MARKER NAME PLATES TO NEW FACE OF ABUTMENT.

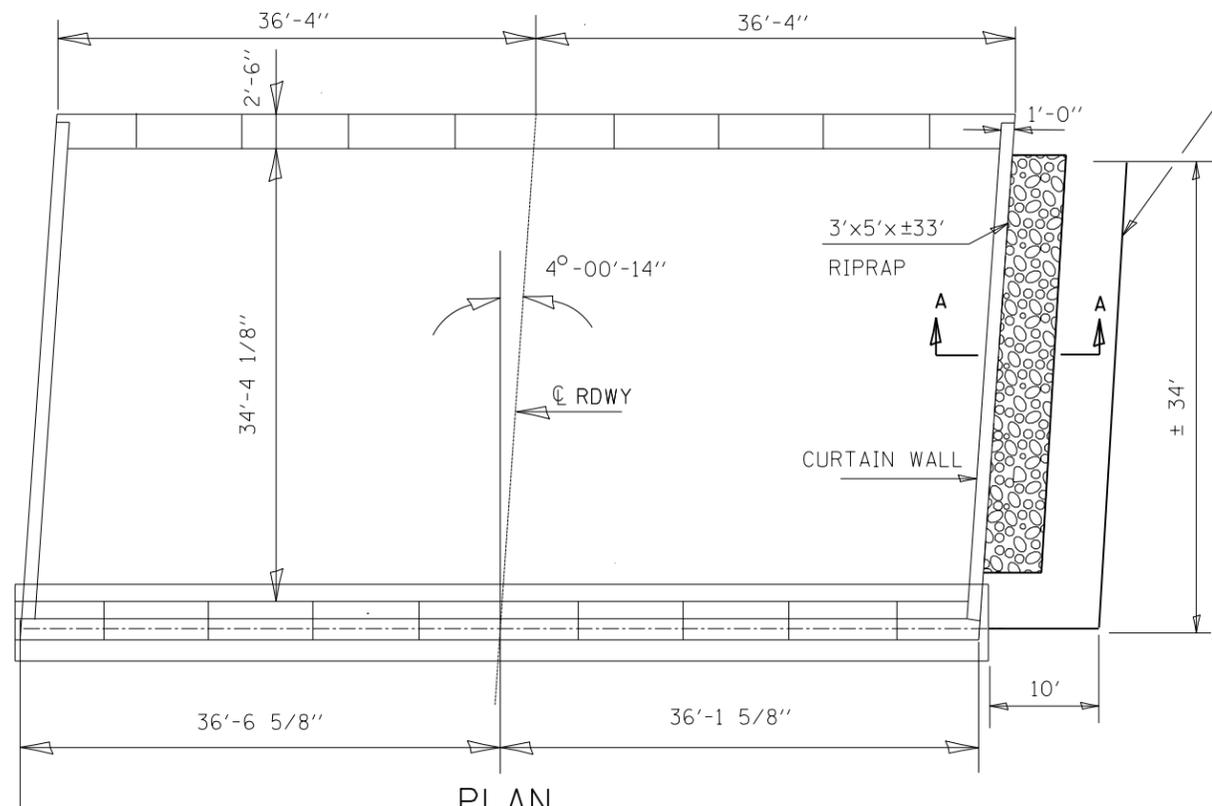
**BILL OF MATERIALS  
(WEST ABUT)**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	45	#5	25'-1"	—
L(E)	296	#5	1'-10"	—
V(E)	73	#5	14'-0"	—
REINFORCEMENT BARS, (EPOXY COATED)			LBS	2810
CONCRETE STRUCTURES			CU.YD.	17.0

**MINIMUM BAR LAP**

SIZE	LAP
#5	2'-2"

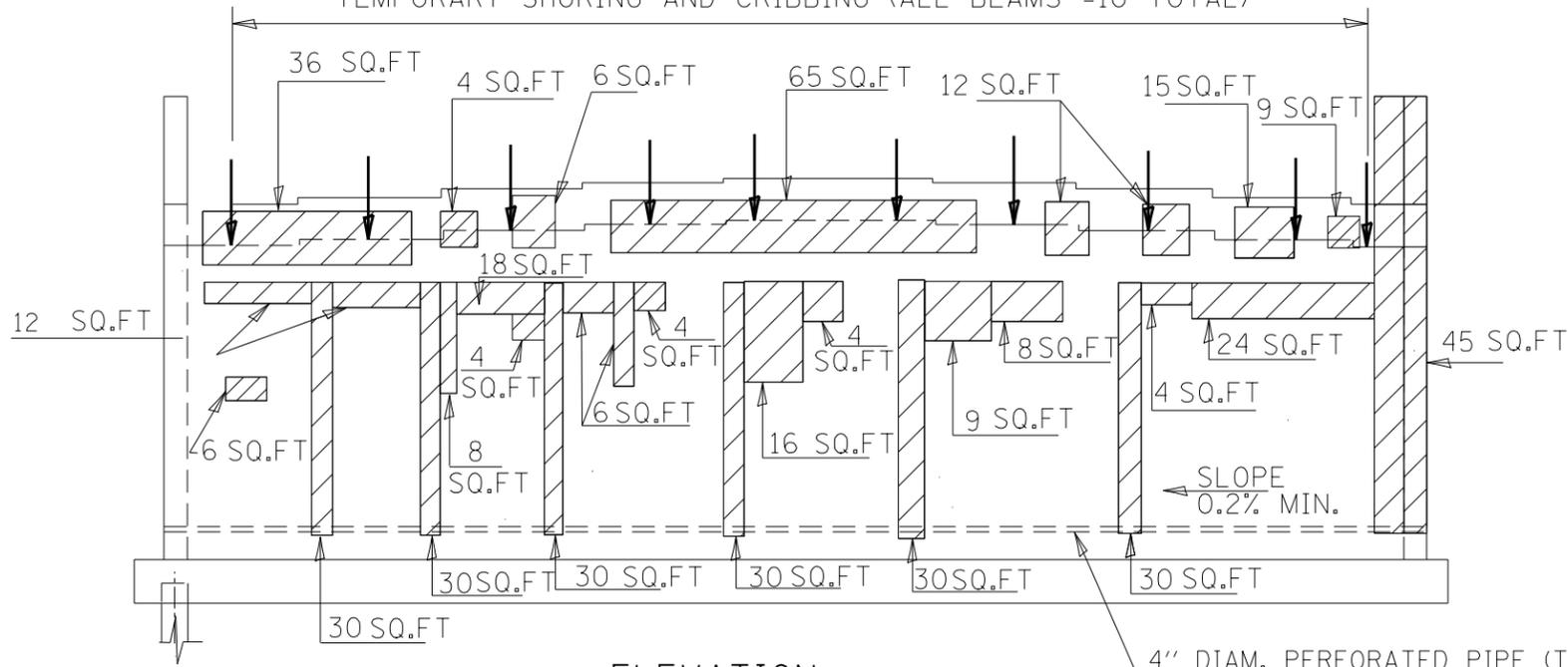
\* FAI 290 & FAP 342



PLAN

EAST ABUTMENT

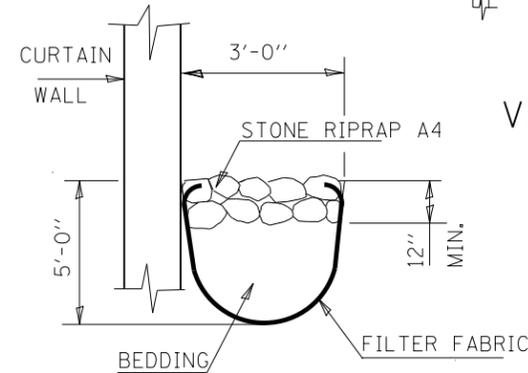
TEMPORARY SHORING AND CRIBBING (ALL BEAMS =10 TOTAL)



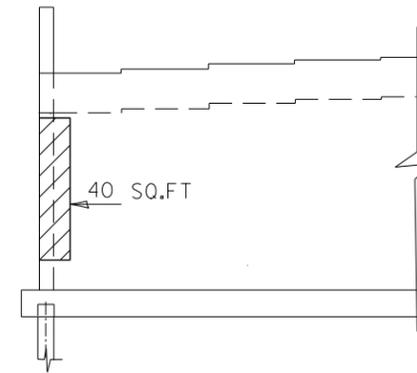
ELEVATION

EAST ABUTMENT

(OUTSIDE FACE LOOKING EAST)



SECTION A-A



EAST ABUTMENT  
VAULTED SPAN FACE  
(LOOKING WEST)



EAST ABUTMENT  
PILE CAP  
(LOOKING EAST)

BILL OF MATERIALS (EAST ABUTMENT)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	SQ. FT	592
TEMPORARY SHORING AND CRIBBING	EACH	10
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	76
EARTH EXCAVATION	CU YD	19
STONE DUMPED RIPRAP, CLASS A4	SQ. YD.	11
FILTER FABRIC	SQ. YD.	48
PERIMETER EROSION BARRIER	FOOT	50

**NOTE:** COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4".  
SUPPORT SYSTEM SHALL BE PLACED BEHIND THE EXISTING BARRIER WALL.

LEGEND

- STRUCTURAL REPAIR OF CONCRETE  $\leq$  5"
- RIPRAP

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISD -
et:\pw\work\p\idot\gorengautab\d0101671\022-0091.dgn		DRAWN -	REVISD -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISD -
	PLOT DATE = 9/13/2012	DATE -	REVISD -

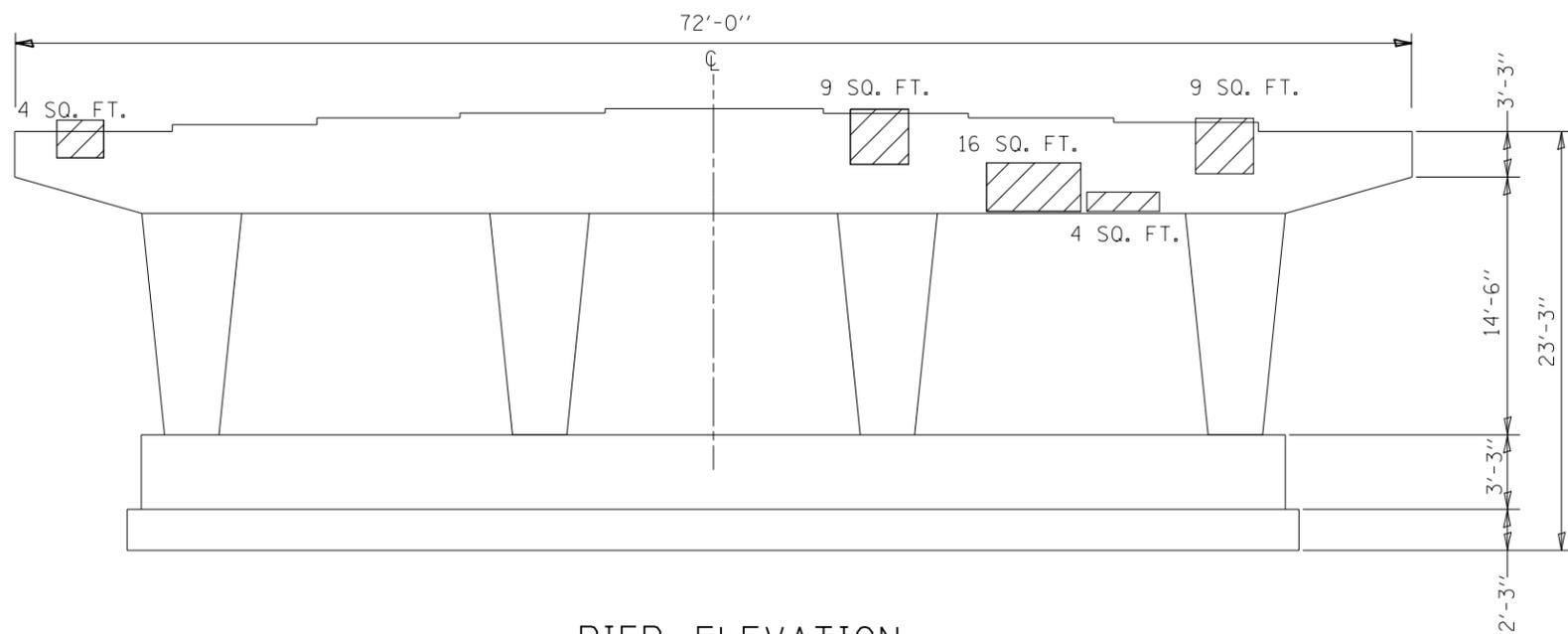
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION NO 3. I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091)  
EAST ABUTMENT REPAIRS

SCALE: \_\_\_\_\_ SHEET 4 OF 8 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

\* FAI 290 & FAP 342

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-026 BR	COOK & DuPAGE	29	24
CONTRACT NO. 60770			ILLINOIS FED. AID PROJECT	



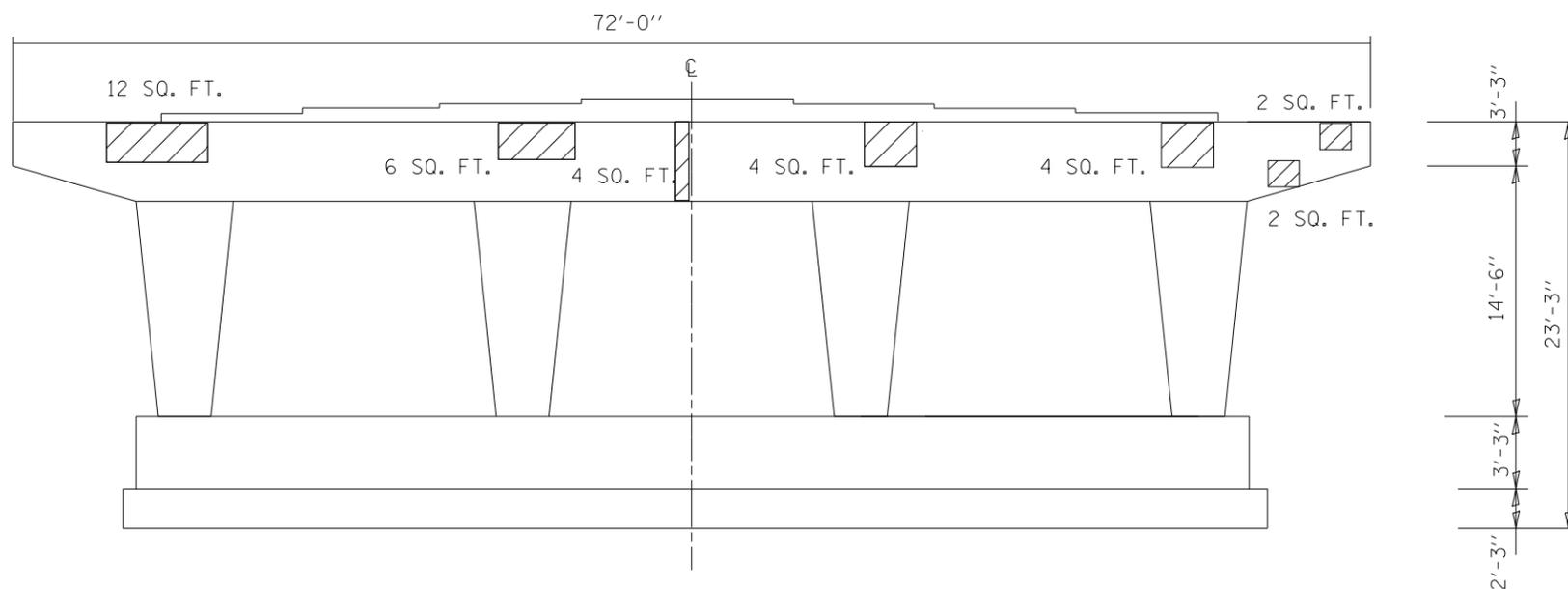
PIER ELEVATION  
EAST FACE

BILL OF MATERIALS (PIER)

	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE $\leq$ 5"	SQ. FT	76



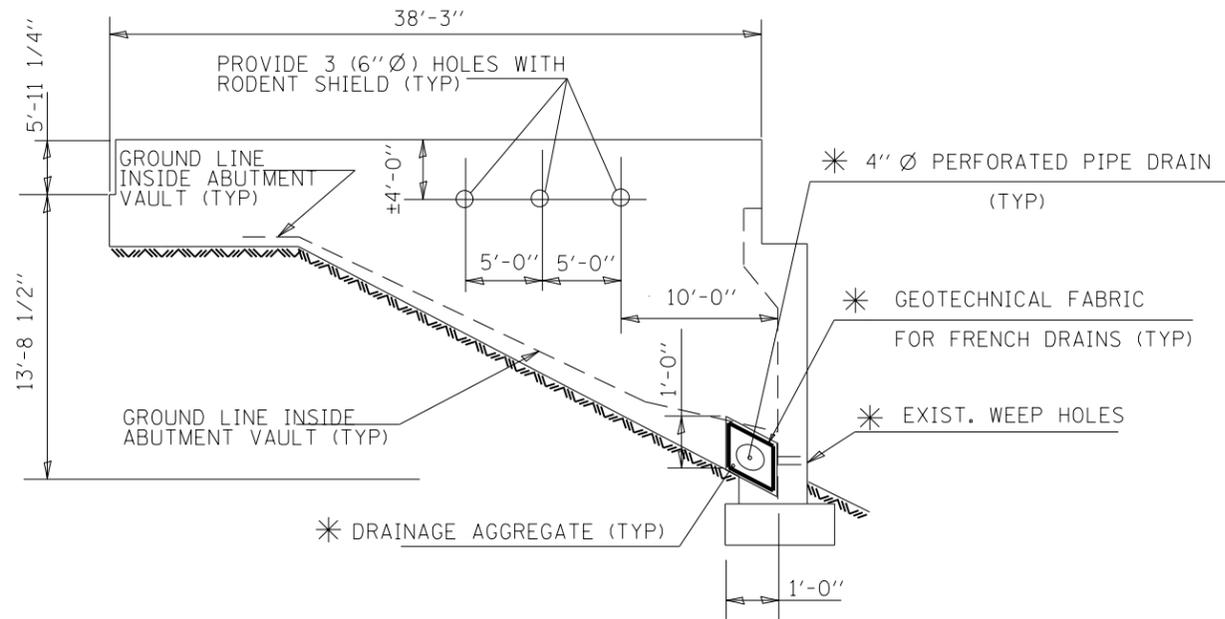
STRUCTURAL REPAIR OF CONCRETE  $\leq$  5"



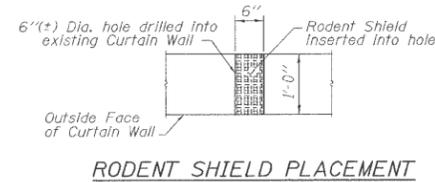
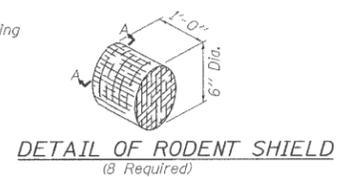
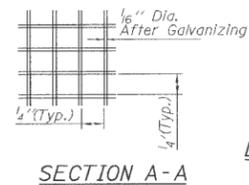
PIER ELEVATION  
WEST FACE

\* FAI 290 & FAP 342

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION NO 3. I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091) PIER REPAIRS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Plot SCALE = 100.0000' / in.	DRAWN -	REVISD -				*	2012-026 BR	COOK & DuPAGE	29	25
	PLOT DATE = 8/27/2012	CHECKED -	REVISD -		SCALE: _____ SHEET 5 OF 8 SHEETS STA. _____ TO STA. _____			CONTRACT NO. 60770			
		DATE -	REVISD -		ILLINOIS FED. AID PROJECT						



NORTHWEST CURTAIN WALL  
NORTHEAST CURTAIN WALL

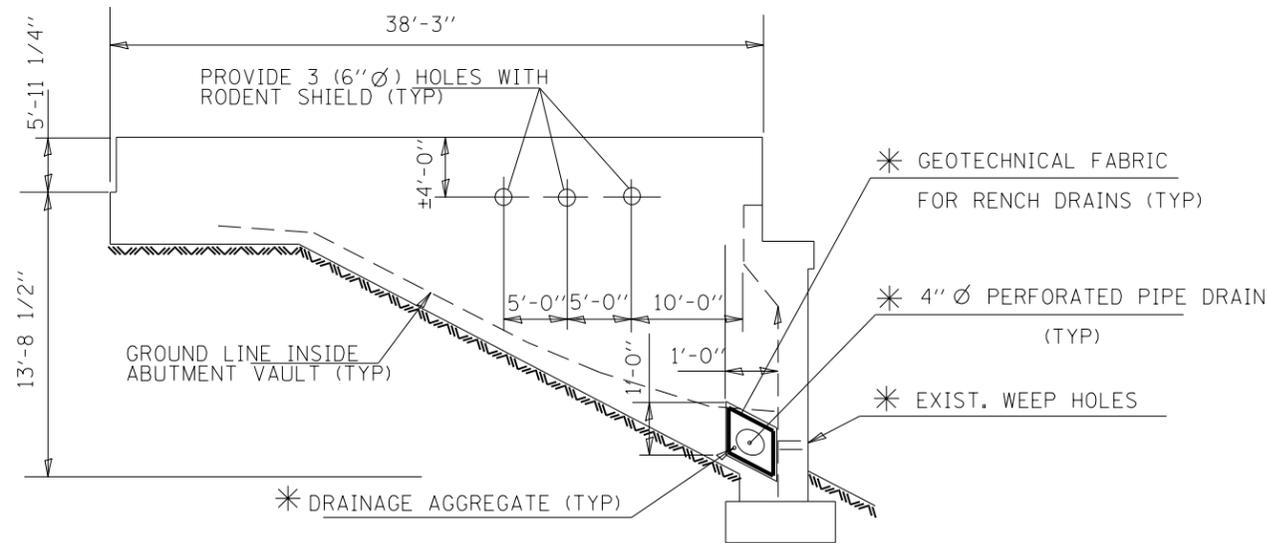


NOTES:

COST OF CORING 12 HOLES (3 EACH SIDE AT EACH ABUTMENT) AND SHIELDS INCLUDED WITH "CONCRETE STRUCTURES".

\* CLEAN EXISTING WEEP HOLE IN THE EXIST. WINGWALL TO ACCOMMODATE THE 4"Ø PERFORATED PIPE DRAIN. AFTER INSTALLATION SEAL AROUND THE PIPE DRAIN.  
COST INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4".

EXCAVATED SOIL FOR PIPE UNDERDRAIN INSTALLATION SHALL BE PLACED ON TOP OF SLOPED GROUND INSIDE VAULT. COST INCLUDED IN " PIPE UNDERDRAIN FOR STRUCTURES 4".



SOUTHWEST CURTAIN WALL  
SOUTHEAST CURTAIN WALL

\* FAI 290 & FAP 342

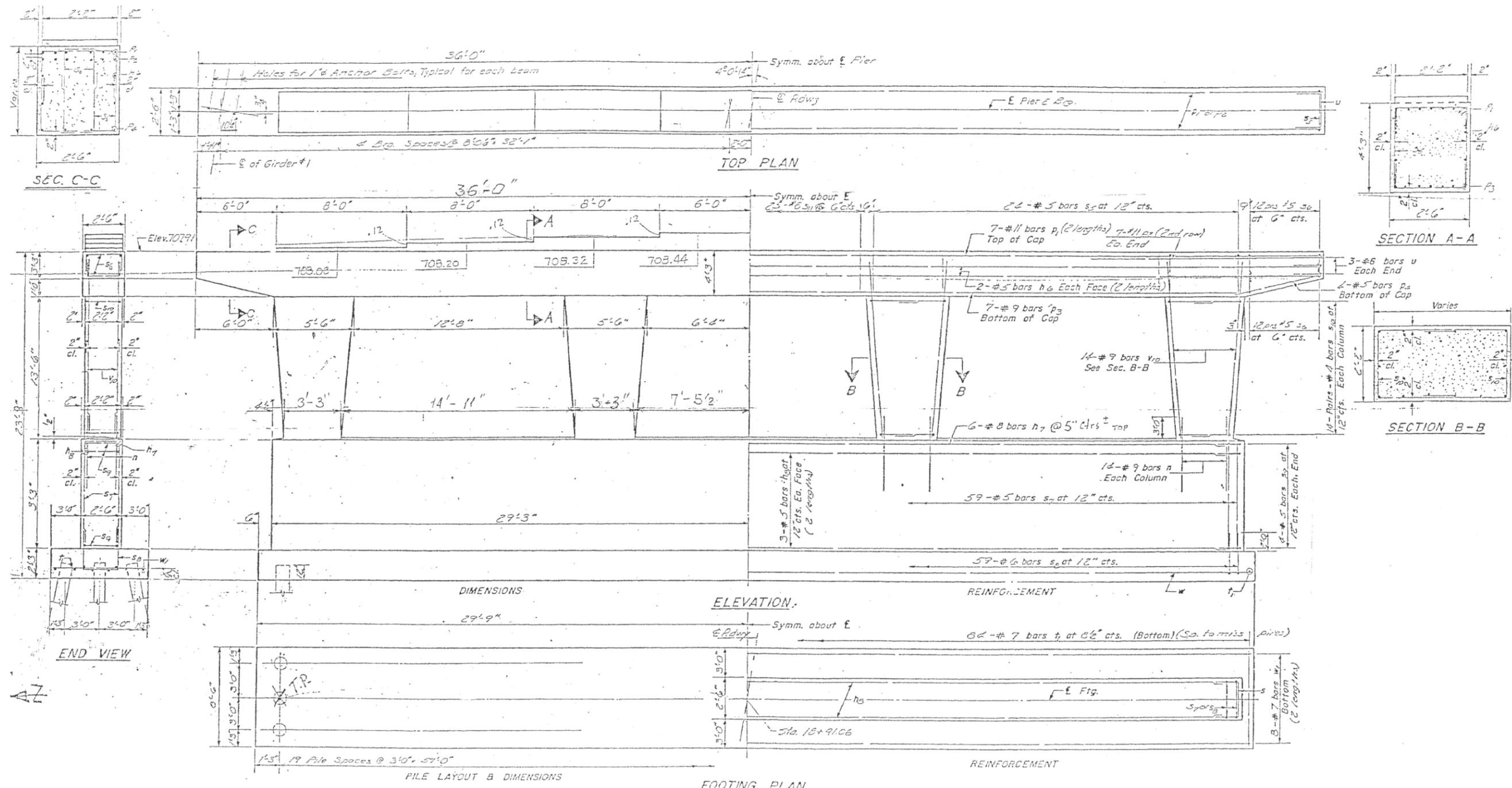
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISD -
	PLOT DATE = 8/28/2012	DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION NO 3. I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091)  
CURTAIN WALL REPAIRS

SCALE: \_\_\_\_\_ SHEET 6 OF 8 SHEETS STA. TO STA.

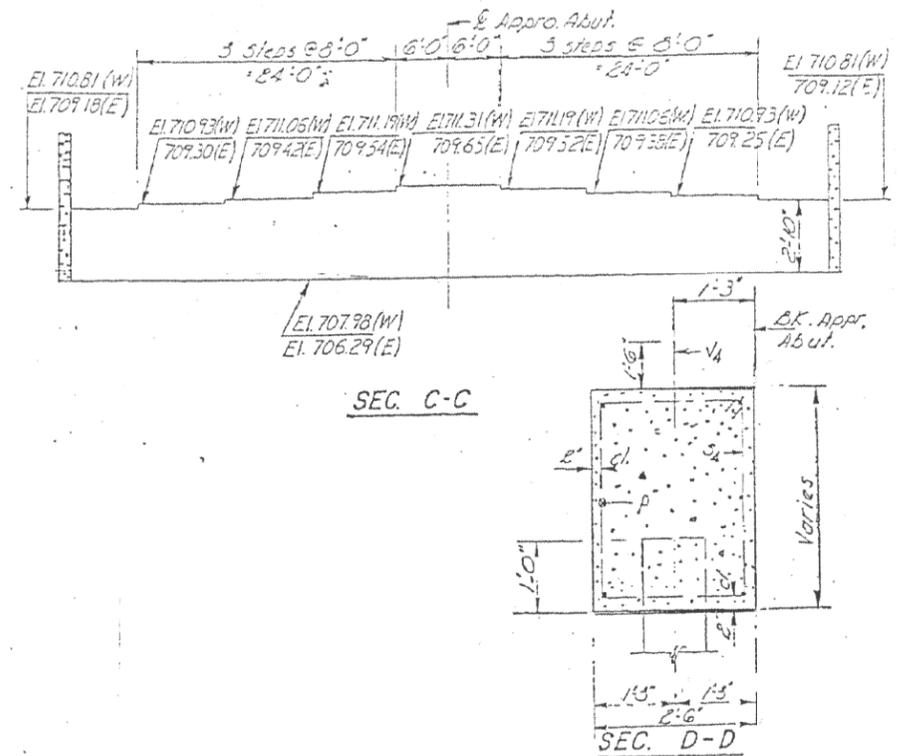
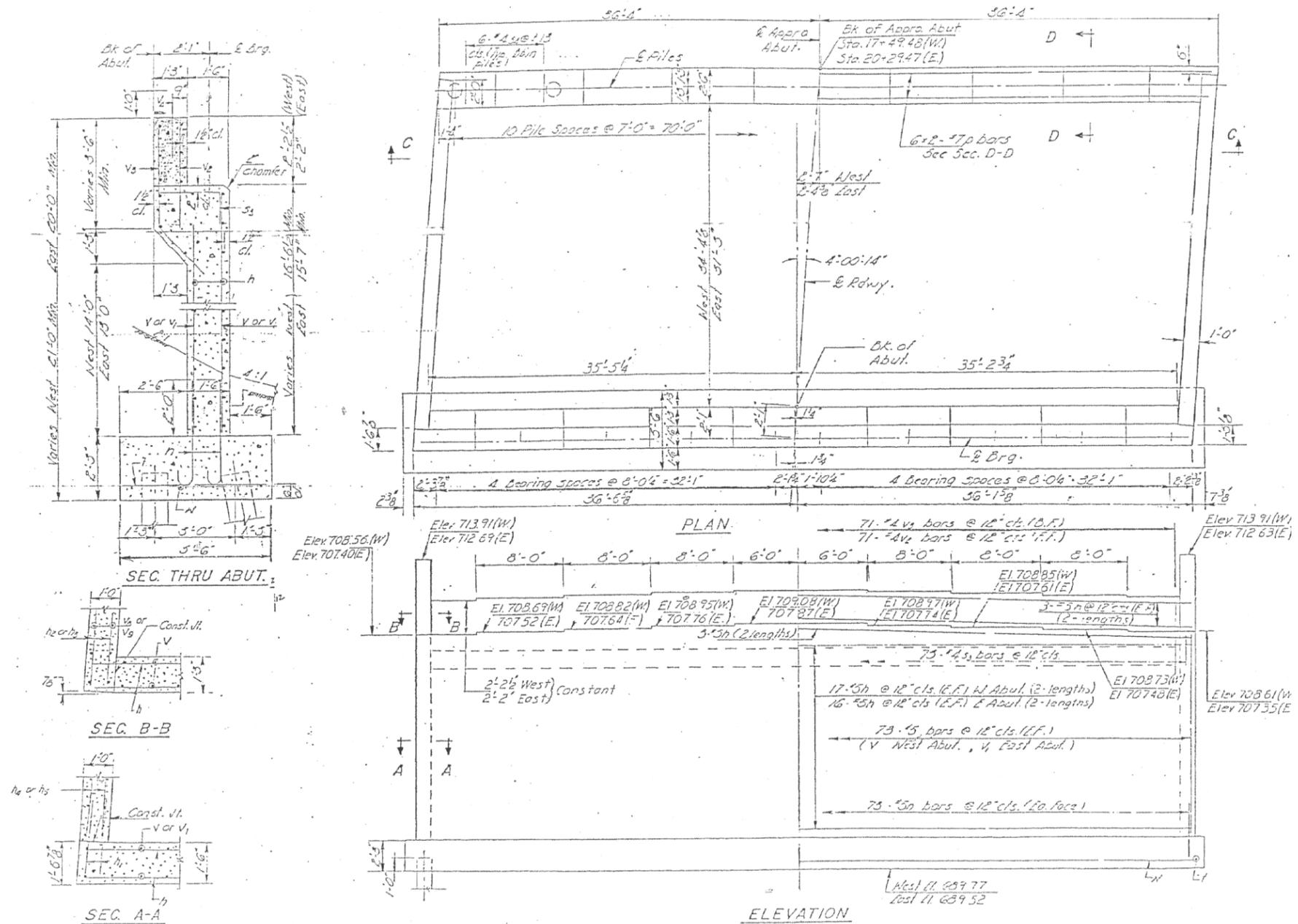
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-026 BR	COOK & DuPAGE	29	26
				CONTRACT NO. 60T70
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

\* FAI 290 & FAP 342

FILE NAME =	USER NAME = midyja	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION NO 3. I-290 AT IL 19 (IRVING PARK RD) (SN 022-0091)</b>		F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\midyja\0101671\022-0091.dgn		DRAWN -	REVISED -		<b>PIER</b>		*	2012-026 BR	COOK & DuPAGE	29	27
\$MODELNAME\$	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		SCALE: _____	SHEET 7 OF 8 SHEETS	STA. _____	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 8/28/2012	DATE -	REVISED -				TO STA. _____				



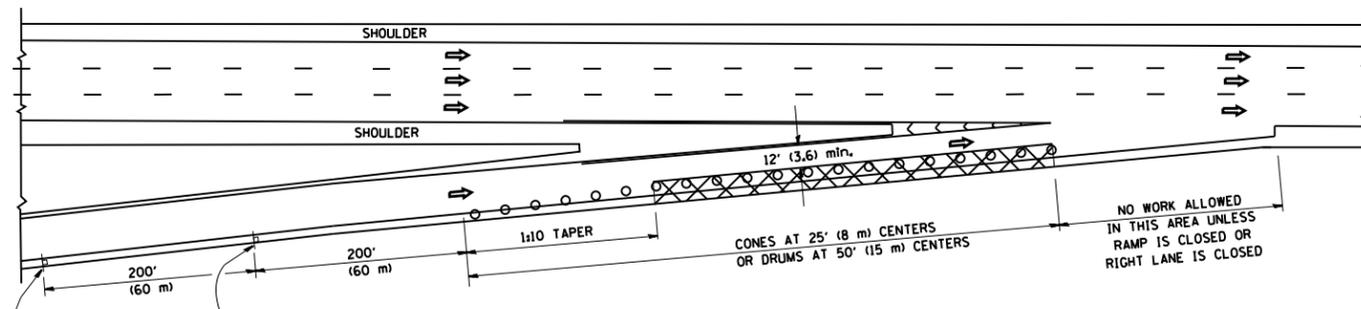
**FOR INFORMATION ONLY**

\* FAI 290 & FAP 342

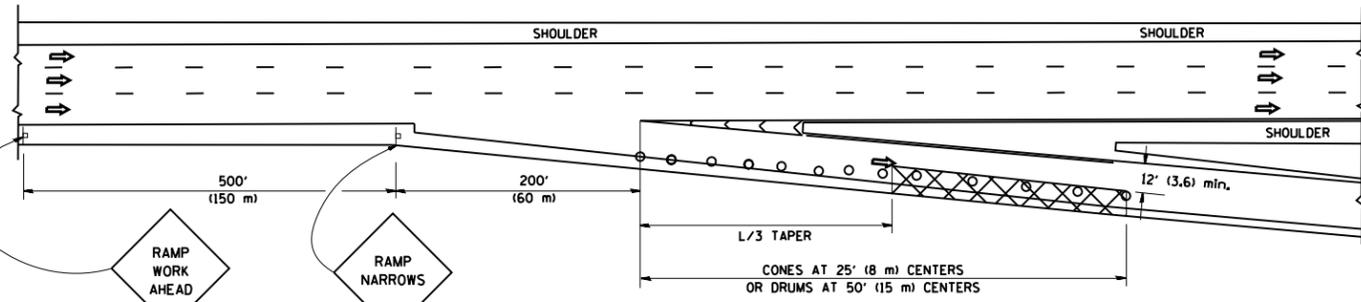
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#MODELNAME#	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISD -		SCALE: _____	SHEET 8	OF 8 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 60T70</b>		
	PLOT DATE = 8/28/2012	DATE -	REVISD -		ILLINOIS FED. AID PROJECT							

**PARTIAL RAMP CLOSURE DETAILS**

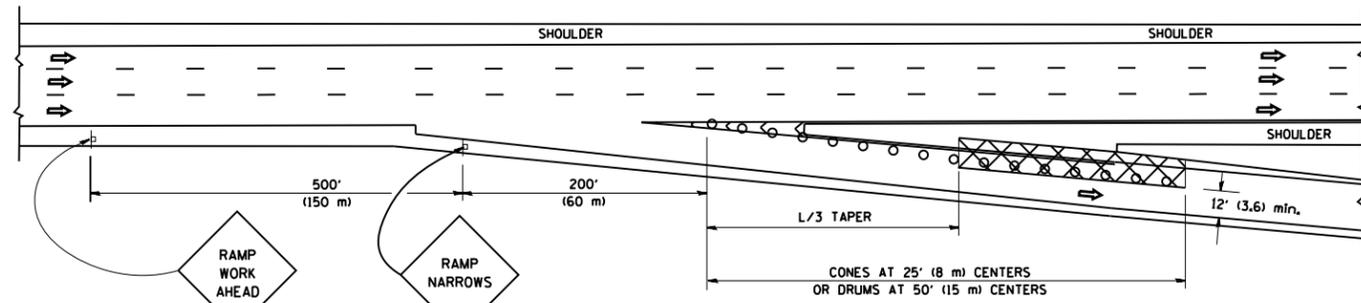
**SHOULDER CLOSURE DETAILS**



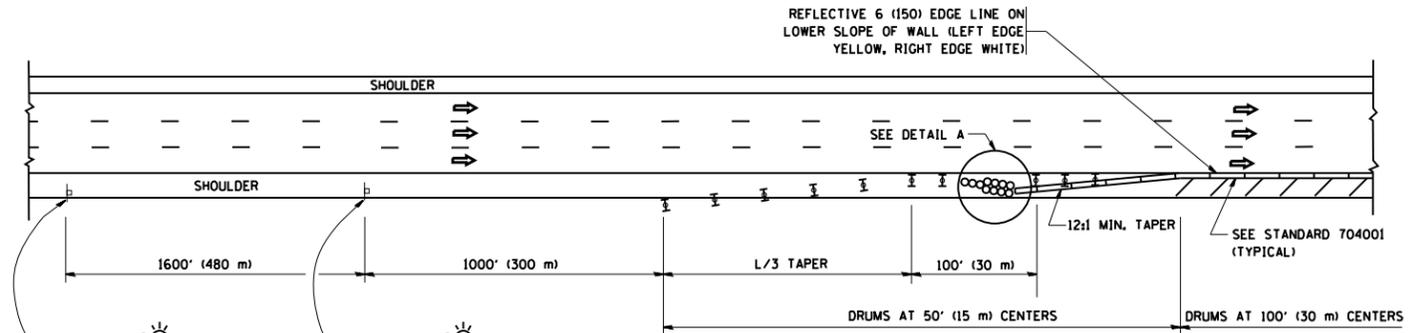
**TYPICAL ENTRANCE RAMP**



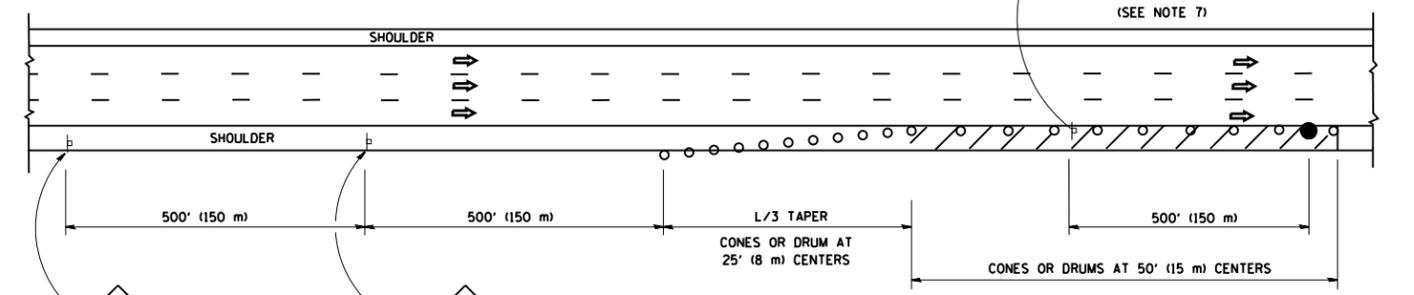
**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

**GENERAL NOTES**

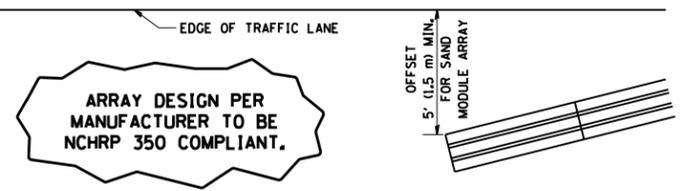
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH
	$L=0.65(WXS)$ $L=(WXS)$

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.

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.
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 ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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



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

\* FAI 290 & FAP 342

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED - Q4-03
ca:\pw\work\p\dot\gorengautab\0101671\022-0091.dgn		DRAWN - D.W.S.	REVISED - J.A.E. 12-06
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - S.E.B. 01-07
	PLOT DATE = 8/27/2012	DATE - 11-96	REVISED - S.E.B. 12-09

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY**  
**SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE	SHEET NO. 1_ OF 1_ SHEETS	STA. _____ TO STA. _____	F.A.I. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2012-026 BR	COOK & DuPAGE	29	29
				TC-17			CONTRACT NO. 60T70
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							