

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2014-0801	VARIOUS	50	1
		ILLINOIS	CONTRACT NO. 62A29	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

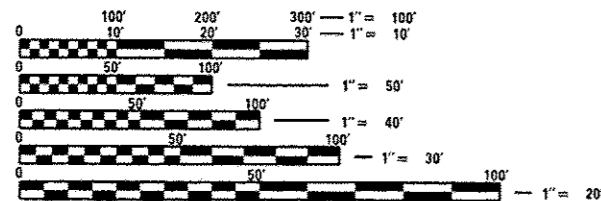
FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE CITIES OF CHICAGO, JOLIET & HIGHLAND PARK AND THE VILLAGES OF ADDISON, BLOOMINGDALE, HILLSIDE, FOREST PARK AND PALATINE.

ROUTE: VARIOUS
VARIOUS LOCATIONS
SECTION: 2014-0801

BRIDGE REPAIRS, MEDIAN BARRIER & NOISE BARRIER REPAIRS
VARIOUS COUNTIES

C-91-127-15



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

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

CONTRACT NO. 62A29

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 4, 2015
John Furlman, Jr.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 20, 2015
John D. Baranowski, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 20, 2015
Emad Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS STATE STANDARDS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pilot\gorangautab\0418648\0112715-shr-plan.dgn	gorangautab	DRAWN -	REVISED -					VAR	2014-0801	VARIOUS	50	2
		CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62A29				
Default		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

GENERAL NOTES (BRIDGE)

THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM, COST INCLUDED WITH CONCRETE REMOVAL.

PLAN DIMENTIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENTIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT 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 UPON THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

JOINTS ARE TO BE INSTALLED TO MATCH EXISTING.

IF A GAP IN THE PARAPET IS TO OCCUR FOR ANY PERIOD OF TIME, A TEMPORARY RAILING MUST BE INSTALLED SO THAT AT NO TIME SHALL THERE BE AN OPENING IN ANY PORTION OF THE EXISTING SYSTEM. IF THE GAP IS IN A BARRIER WALL SECTION, TEMPORARY RAILING OR BARRELS SHALL BE USED AT THE DISCRETION OF THE ENGINEER.

THE CONTRACTOR SHALL SALVAGE AND RETURN THE EXISTING GUARDRAIL TO:

DISTRICT BRIDGE OFFICE
1101 BIESTERFIELD RD.
ELK GROVE VILLAGE, IL 60007

CONTACT SHAKER ASFOUR AT (847) 965-1501.

THIS WORK SHALL INCLUDE REMOVING, TRANSPORTING AND UNLOADING THE EXISTING CARRIER GUARDRAIL TO THE ABOVE YARD WHICH COST IS INCLUDED IN THE COST OF "CONCRETE REMOVAL".

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 HOUR NOTIFICATION IS REQUIRED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITIES OF CHICAGO, JOLIET AND HIGHLAND PARK AND THE VILLAGES OF ADDISON, BLOOMINGDALE, HILLSIDE, FOREST PARK 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.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 (FOR ARTERIALS) AND (847)705-4151 (FOR EXPRESSWAYS) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM 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.

IN SOME CASES, THERE IS A CONDUIT IN THE BASE OF THE BRIDGE PARAPET (LOC 17, 18, 19 AND 20). THIS CONDUIT CONTAINS ELECTRICAL AND / OR FIBER OPTIC CABLE. CARE MUST BE TAKEN TO PREVENT DAMAGE TO THIS CONDUIT. IF IT IS DAMAGED, THE CONDUIT SHALL BE REPAIRED OR REPLACED. IF THE ELECTRICAL OR COPPER COMMUNICATIONS CABLE IS DAMAGED, IT SHALL BE REPLACED FROM JUNCTION BOX TO JUNCTION BOX (1500 FT. MIN.). IF THE FIBER OPTIC COMMUNICATIONS CABLE IS DAMAGED, IT SHALL BE REPLACED FROM EXISTING SPLICE ENCLOSURE TO EXISTING SPLICE ENCLOSURE OR TERMINATION POINT. FOR THE LOCATION OF THE CONDUITS, CONTACT ROY LAWSON AT THE ELECTRICAL FIELD OFFICE AT (708) 524-2145.

ANY CONDUIT RUSTED THRU, EXPOSED CABLES, PULL BOXES OR HANDHOLES FOR BRIDGE LIGHTING, TRAFFIC SIGNALS, COUNTERS, SURVEILLANCE EQUIPMENT FOUND IN DISREPAIR THE ENGINEER SHALL TAKE THE APPROPRIATE ACTION:

NO SAW CUTTING OR REMOVAL WILL BE MADE OR CONCRETE Poured UNTIL THE APPROPRIATE ACTION IS TAKEN TO RESOLVE EACH ISSUE;

ALL WORK REQUIRED TO REPAIR/REPLACE SIGNAL SURVEILLANCE OR LIGHTING ITEMS WILL BE DOCUMENTED BY THE ENGINEER AND THE BUREAU OF TRAFFIC WILL BE NOTIFIED.

FOR LOCATION 16A, THE CONTRACTOR SHALL COORDINATE WITH ELECTRICAL MAINTENANCE CONTRACTOR "MEADE ELECTRIC" TO INSTALL THE CONDUIT FOR ELECTRICAL LIGHTING SYSTEM.

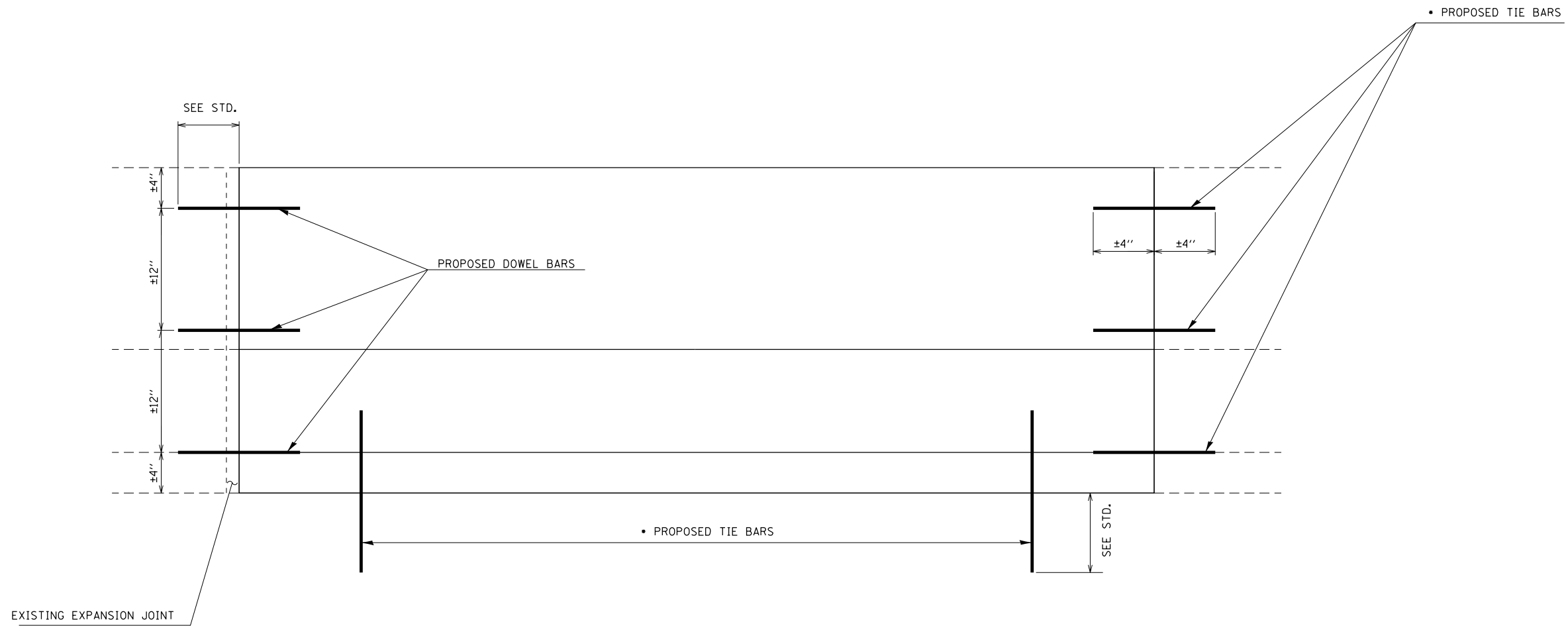
FOR LOCATION 2: THE LANE CLOSURE HAS TO START ON THE SB DAN RYAN IN LANE 1 AND WILL FOLLOW THE TWO LANE CLOSURE HOURS FOR THE DAN RYAN BETWEEN 71-ST AND 95-TH STREETS.

FOR LOCATION 14: THE CONTRACTOR SHALL USE PP-5 CONCRETE FOR THE BARRIER WALL REPAIR.

FILE NAME :	USER NAME : Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT DATE * 2/10/2015	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

SCHEDULE OF QUANTITIES	COOK COUNTY																									
	I-90 DAN RYAN EXPY			I-94 BISHOP FORD EXPY			LAKE ST RAMP TO I-90/94		US 41 SKOKIE VALLEY ROAD				I-90 /94 KENNEDY EXPY								DES PLANES AVE		IL 53 EXTENSION RAMP FROM EB LAKE COOK RD TO SB IL 53 EXT			
LOCATION	1	2		3	4	5	14		6	7	8	9	10	11	15	16A	16B	17	18	19	20		21		26	
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)	X	X		X	X	X	X								X	X	X	X	X	X	X				X	
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421									X	X	X	X	X	X												
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501																										
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606																							X			
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801																							X			
NIGHTTIME WORK ZONE LIGHTING	X	X		X	X	X	X				X	X	X	X	X	X	X	X	X	X	X					
TC-17																									X	

SCHEDULE OF QUANTITIES	LAKE COUNTY						WILL COUNTY				DUPAGE COUNTY						MCHENRY COUNTY			
	I-290 EISENHOWER EXPY						CENTER ST OVER I-80 (MCHD)				US 20 OFF RAMP FROM I-55SB TO US 20 WB		I-290 EB EAST OF MILL RD		I-290 WB, WEST OF EMROY AVE				US 12 OVER NIPPERSINK CREEK	
LOCATION	12	13					22				23		24		25				27	
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)	X	X					X				X		X		X					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421																				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501							X													
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606																			X	
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801																			X	
NIGHTTIME WORK ZONE LIGHTING	X	X					X				X		X		X					
TC-08; TC-17							X													



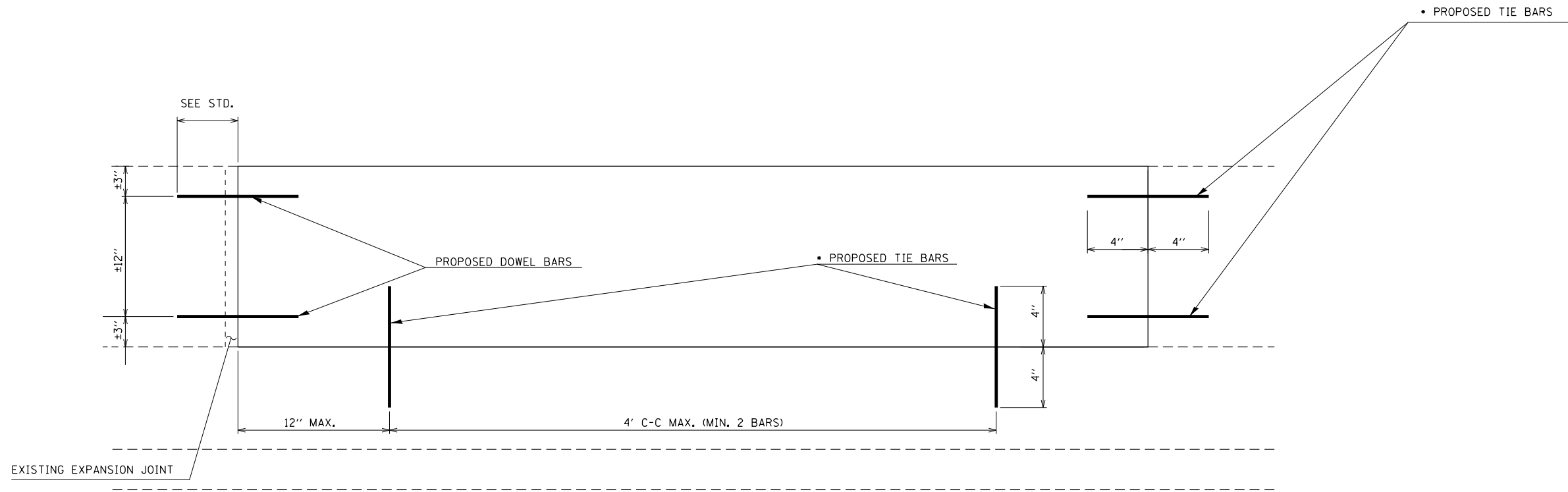
FULL DEPTH REPAIR

NOTE:

ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND 637006 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARDS 637001 AND 637006 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

• USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL REPAIR FOR FULL DEPTH (BARRIER WALL)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/4/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



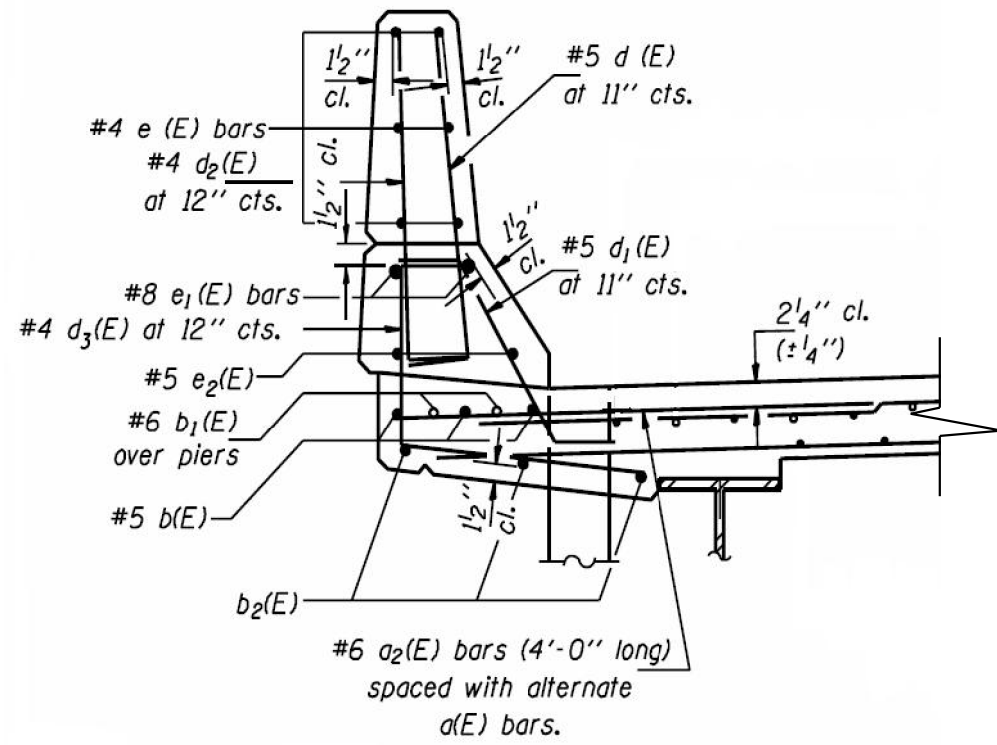
HALF DEPTH REPAIR

NOTE:

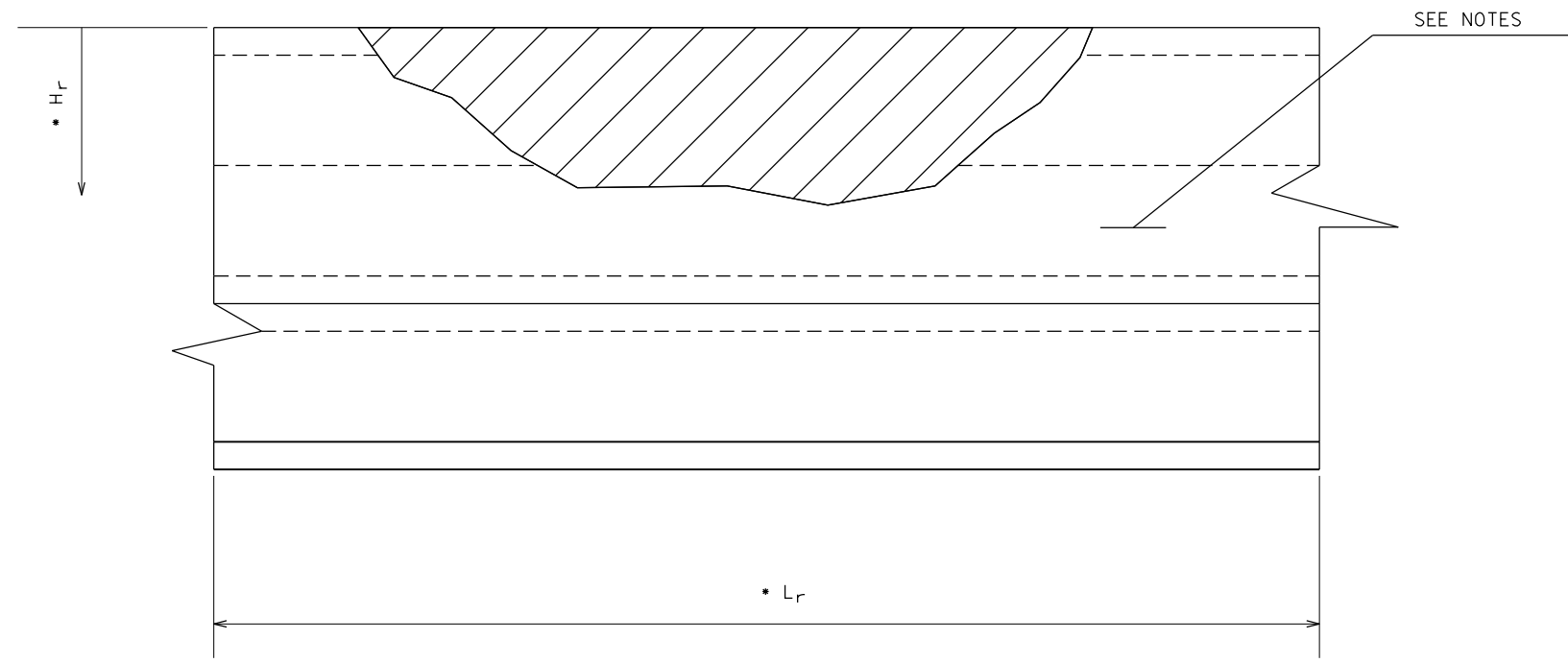
ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND 637006 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARDS 637001 AND 637006 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

- USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL REPAIR FOR HALF DEPTH (BARRIER WALL)			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/4/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



SECTION THRU PARAPET



FRONT FACE OF PARAPET

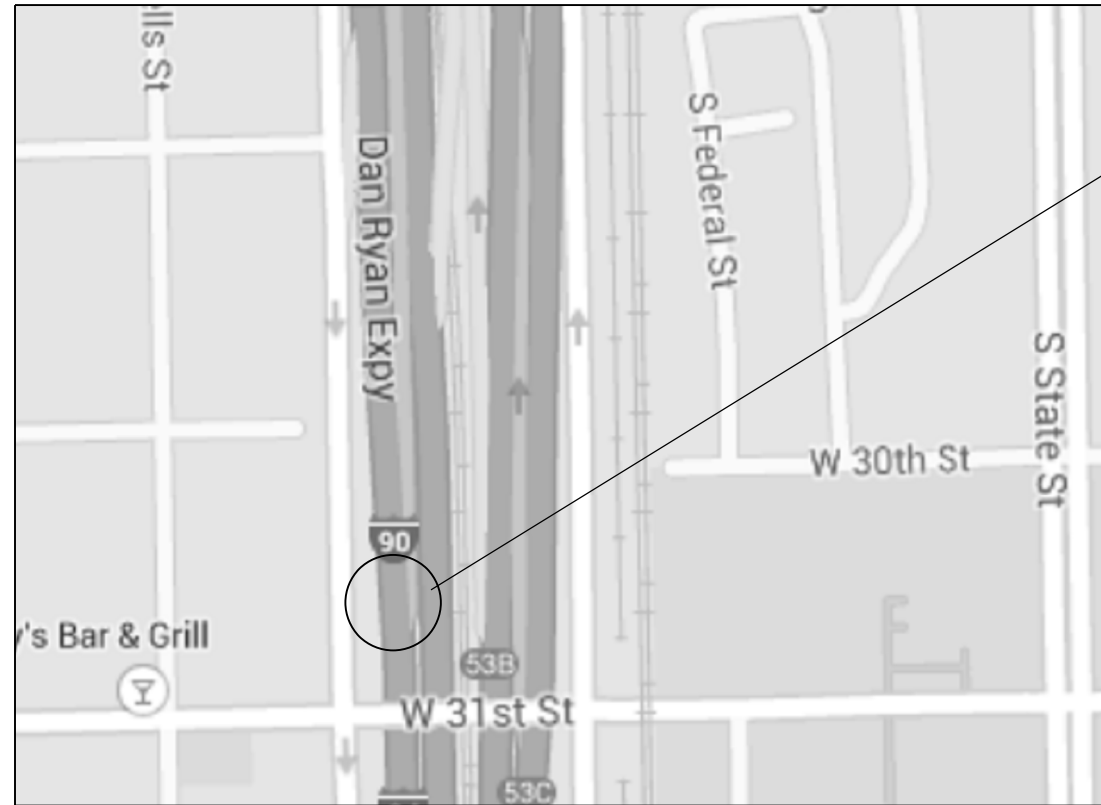
NOTE:

- CONCRETE REMOVAL SHALL EXTEND A MINIMUM OF 6" PAST DAMAGE OR TO JOINT IF WITHIN 2'-0".
- EXISTING BARS TO BE CLEANED, STRAIGHTENED AND INCORPORATED IN NEW CONSTRUCTION.
- IF EXISTING VERTICAL REBAR IS MISSING, BARS d(E) AND d²(E) SHALL BE STRAIGHTENED AND EPOXY GROUTED INTO EXISTING CONCRETE 9" DEEP. COST SHALL BE INCLUDED IN "CONCRETE REMOVAL".
- BARS TO BE EPOXY GROUTED ACCORDING TO ART. 584 OF THE STANDARD SPECIFICATIONS.
- * H_r AND L_r INDICATE DIMENSIONS FOR CONCRETE REMOVAL. PERIMETERS OF CONCRETE REMOVAL AREAS SHALL BE SAW CUT 3/4" PRIOR TO REMOVAL OF CONCRETE.

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL BRIDGE PARAPET REPAIR DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 2/4/2015	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO
						ILLINOIS FED. AID PROJECT					

R 14 E

T 39 N



**LOCATION 1: I-90
(DAN RYAN EXPRESSWAY)
SB RIGHT SIDE LOCALS,
180 FT NORTH OF 31st ST**

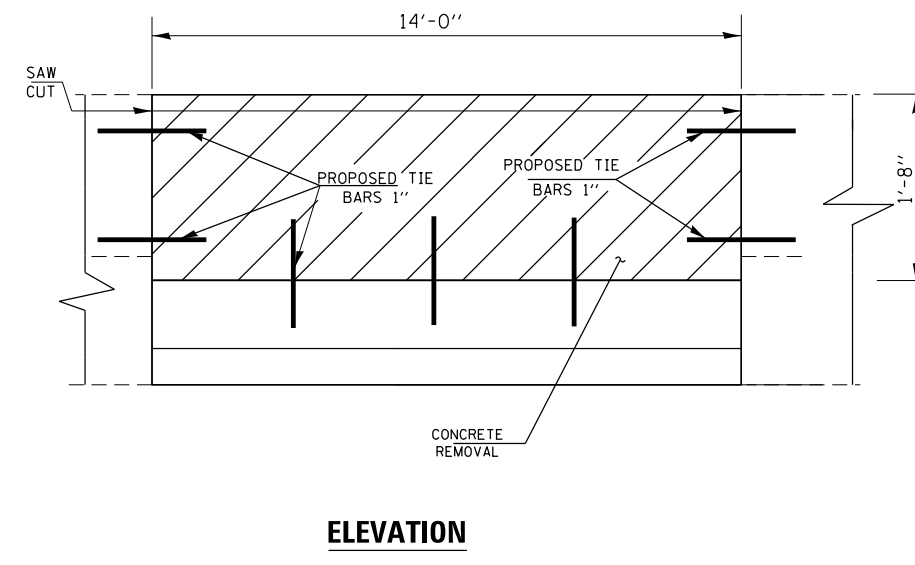
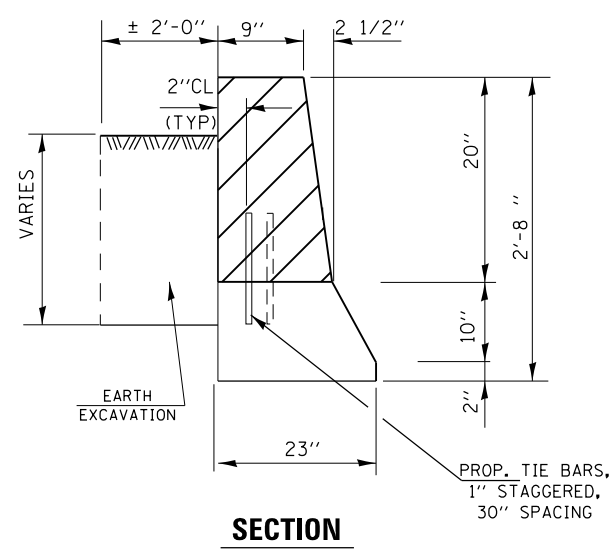


**PARTIAL DEPTH REPAIR
FOR MORE DETAILS SEE SHEET #7**

**CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP, COOK COUNTY**

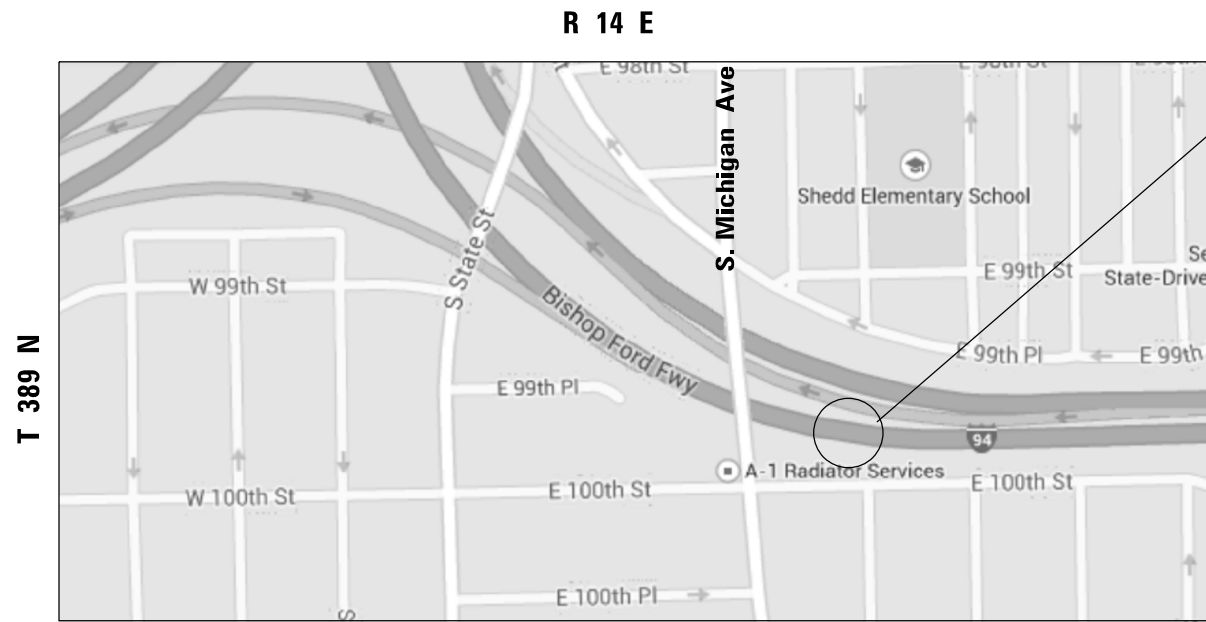
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.6
CONCRETE STRUCTURES	CU. YDS	1.6
TIE BARS	EACH	14
SAW CUT	FOOT	7.0
EARTH EXCAVATION	CU. YDS	1.8
TEMPORARY EROSION CONTROL	SQ. YDS	3.5
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.35
SEEDING CLASS 2A	ACRE	0.0007
PROTECTIVE COAT	SQ. YDS	6.5



TRAFFIC DATA

**I-90: 2013 ADT = 279900
SPEED LIMIT = 55 MPH**

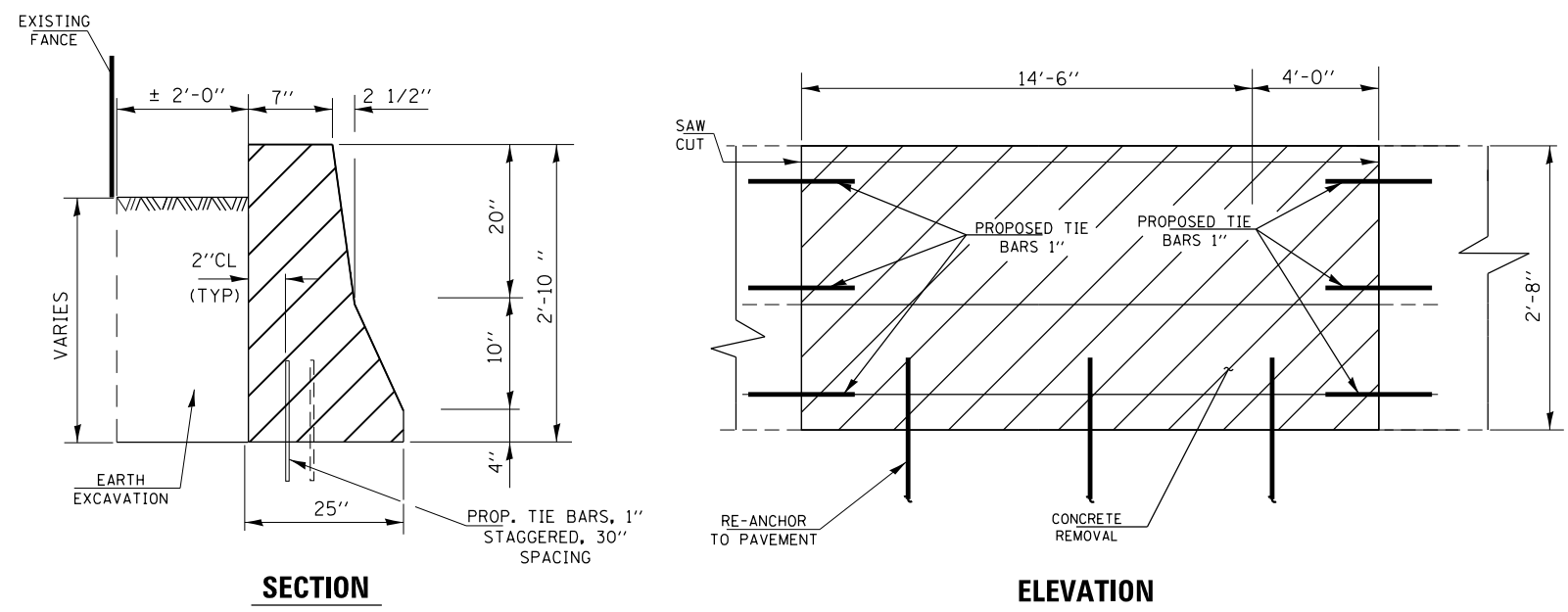


**LOCATION 2: I-94
(BISHOP FORD EXPRESSWAY)
SB LEFT SIDE, 320 FT PAST
MICHIGAN AVE.**



**CITY OF CHICAGO
HYDE PARK TOWNSHIP, COOK COUNTY**

**FULL DEPTH REPAIR
REPLACE 18.5 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #6**



TRAFFIC DATA
I-94: 2013 ADT = 155300
SPEED LIMIT = 55 MPH

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	2.3
CONCRETE STRUCTURES	CU. YDS	2.3
TIE BARS	EACH	19
SAW CUT	FOOT	5.5
EARTH EXCAVATION	CU. YDS	3.5
TEMPORARY EROSION CONTROL	SQ. YDS	4.2
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.46
SEEDING CLASS 2A	ACRE	0.0009
PROTECTIVE COAT	SQ. YDS	8.5

NOTE: THE LANE CLOSURE HAS TO START ON THE SB DAN RYAN IN LANE 1 AND WILL FOLLOW THE TWO LANE CLOSURE HOURS FOR THE DAN RYAN BETWEEN 71-TH AND 95-TH STREETS.



**LOCATION 3: I-94 (SB)
(BISHOP FORD EXPRESSWAY)
130th STREET EXIT RAMP**

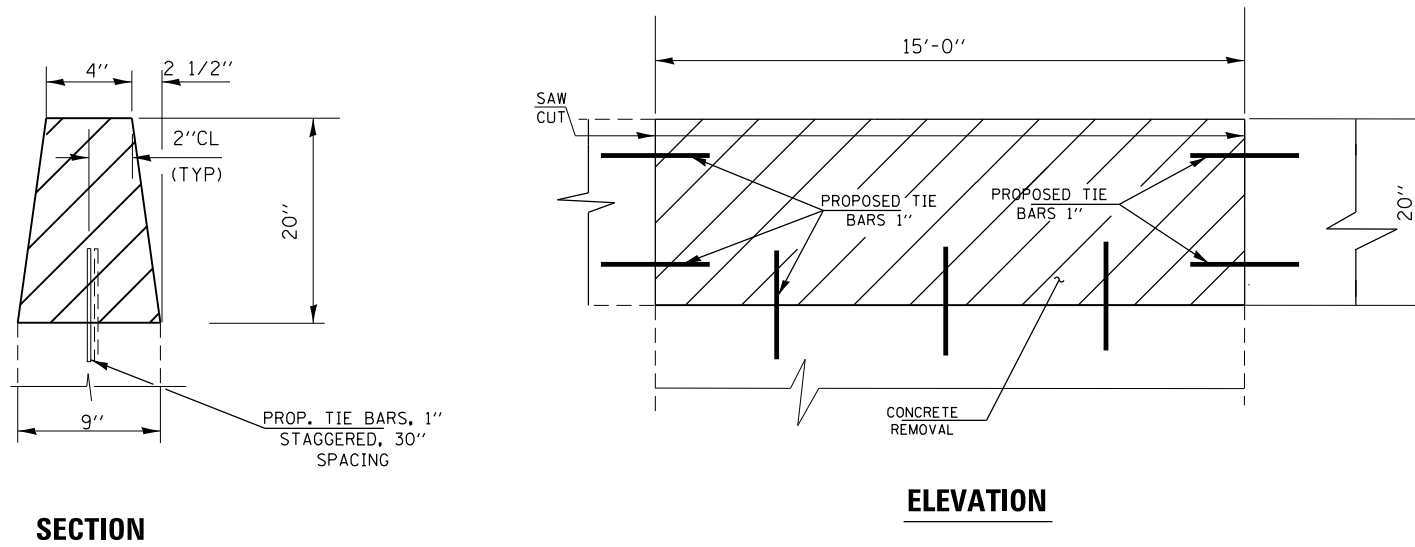


**PARTIAL DEPTH REPAIR
REPLACE 15 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #7**

**CITY OF CHICAGO
HYDE PARK TOWNSHIP, COOK COUNTY**

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.5
CONCRETE STRUCTURES	CU. YDS	0.5
TIE BARS	EACH	9
SAW CUT	FOOT	3.5
PROTECTIVE COAT	SQ. YDS	6.1



TRAFFIC DATA

**I-94: 2013 ADT = 145700
SPEED LIMIT = 55 MPH**

**RAMP 2002 ADT = 4600
SPEED LIMIT = 30 MPH**

R 14 E

T 37 N



**LOCATION 4: I-94
(BISHOP FORD EXPRESSWAY)
NB NORTH OF RR BRIDGE
APPROX. 128th ST**



**CITY OF CHICAGO
HYDE PARK TOWNSHIP, COOK COUNTY**



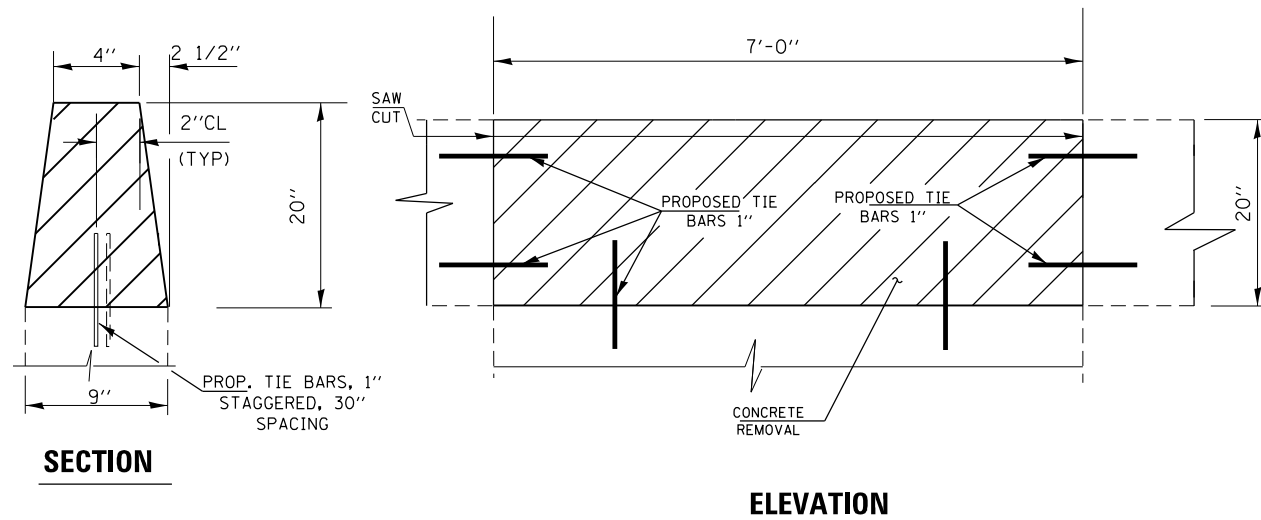
**PARTIAL DEPTH REPAIR
REPLACE 7 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #7**

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.23
CONCRETE STRUCTURES	CU. YDS	0.23
TIE BARS	EACH	7
SAW CUT	FOOT	3.5
PROTECTIVE COAT	SQ. YDS	3.0

TRAFFIC DATA

**I-90: 2013 ADT = 149600
SPEED LIMIT = 55 MPH**



FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -
et:\pw\work\p\dot\gorengautab\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4
I-94 (BISHOP FORD EXPY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	12
			CONTRACT NO. 62A29	
ILLINOIS FED. AID PROJECT				

R 14 E

T 37 N



**LOCATION 5: I-94
(BISHOP FORD EXPRESSWAY)
NB AT RR BRIDGE (128th ST)**



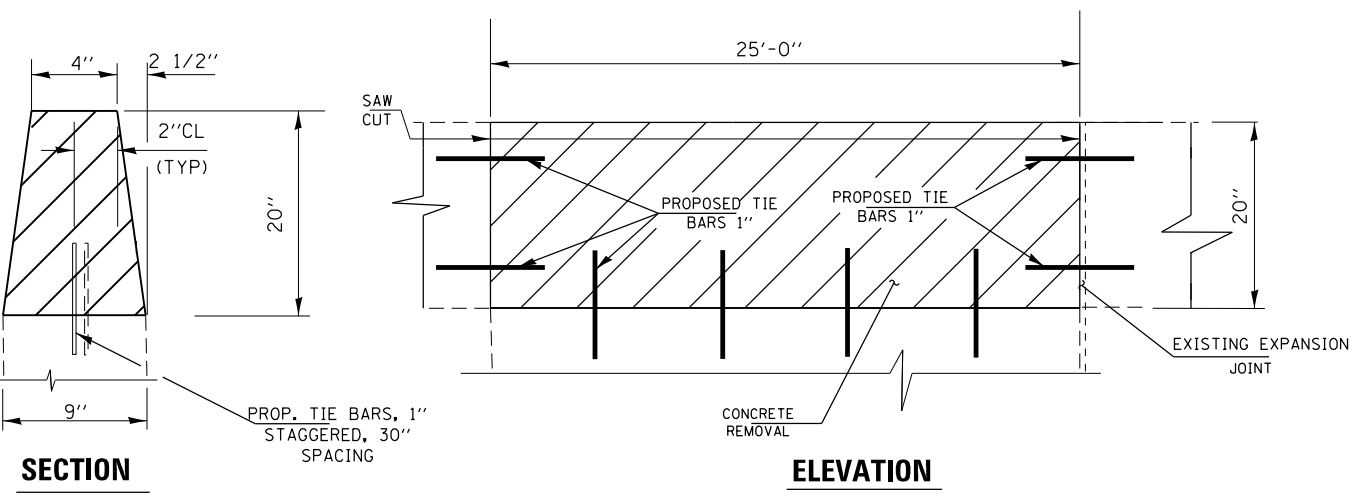
**CITY OF CHICAGO
HYDE PARK TOWNSHIP, COOK COUNTY**



**PARTIAL DEPTH REPAIR
REPLACE 25 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #7**

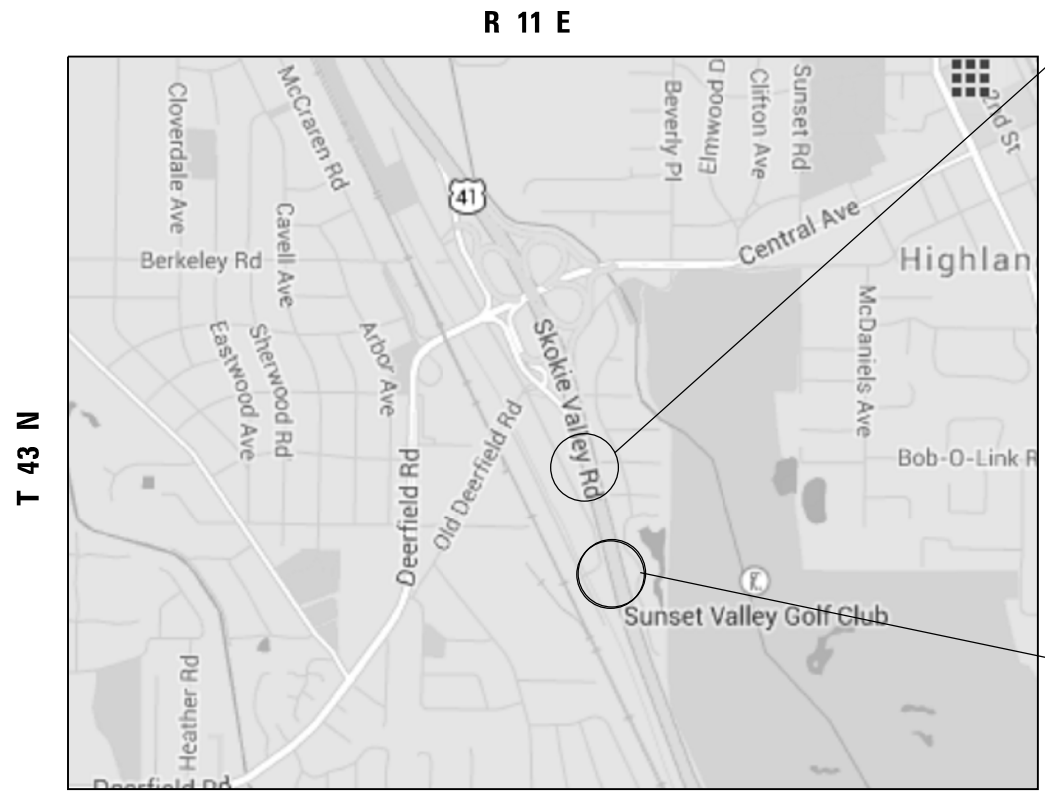
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.85
CONCRETE STRUCTURES	CU. YDS	0.85
TIE BARS	EACH	14
SAW CUT	FOOT	3.5
PROTECTIVE COAT	SQ. YDS	10.5



TRAFFIC DATA

**I-94: 2013 ADT = 149600
SPEED LIMIT = 55 MPH**



**LOCATION 6: US 41
(SKOKIE HWY)
SB 0.5 M SOUTH OF
DEERFIELD RD,
LEFT SIDE, 5 FT LONG**

**LOCATION 7: US 41
(SKOKIE HWY)
SB 0.75 M SOUTH OF
DEERFIELD RD,
LEFT SIDE, 5 FT LONG**

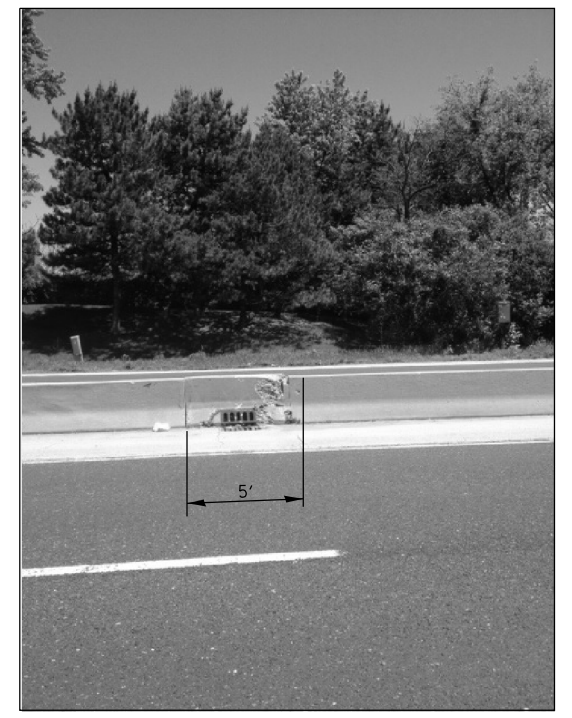
**VILLAGE OF HIGHLAND PARK
MORAINÉ TOWNSHIP
LAKE COUNTY**

TRAFFIC DATA

**US 41: 2013 ADT = 60400
SPEED LIMIT = 40-50 MPH**



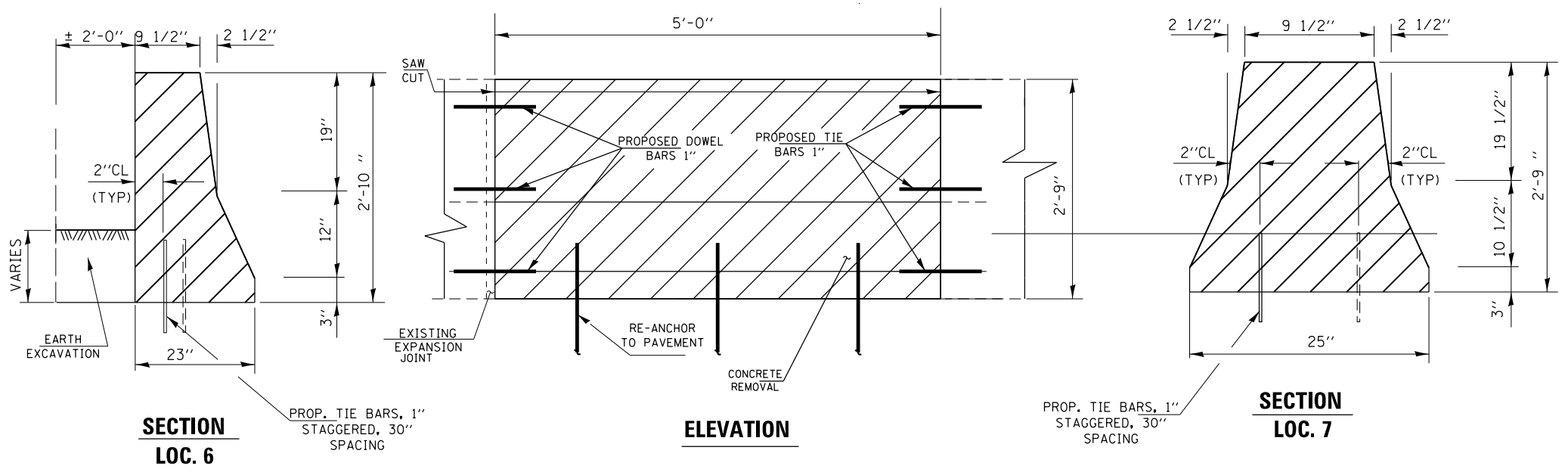
**FULL DEPTH REPAIR
REPLACE 5 FT OF BARRIER WALL LOC. 6
FOR MORE DETAILS SEE SHEET #6**

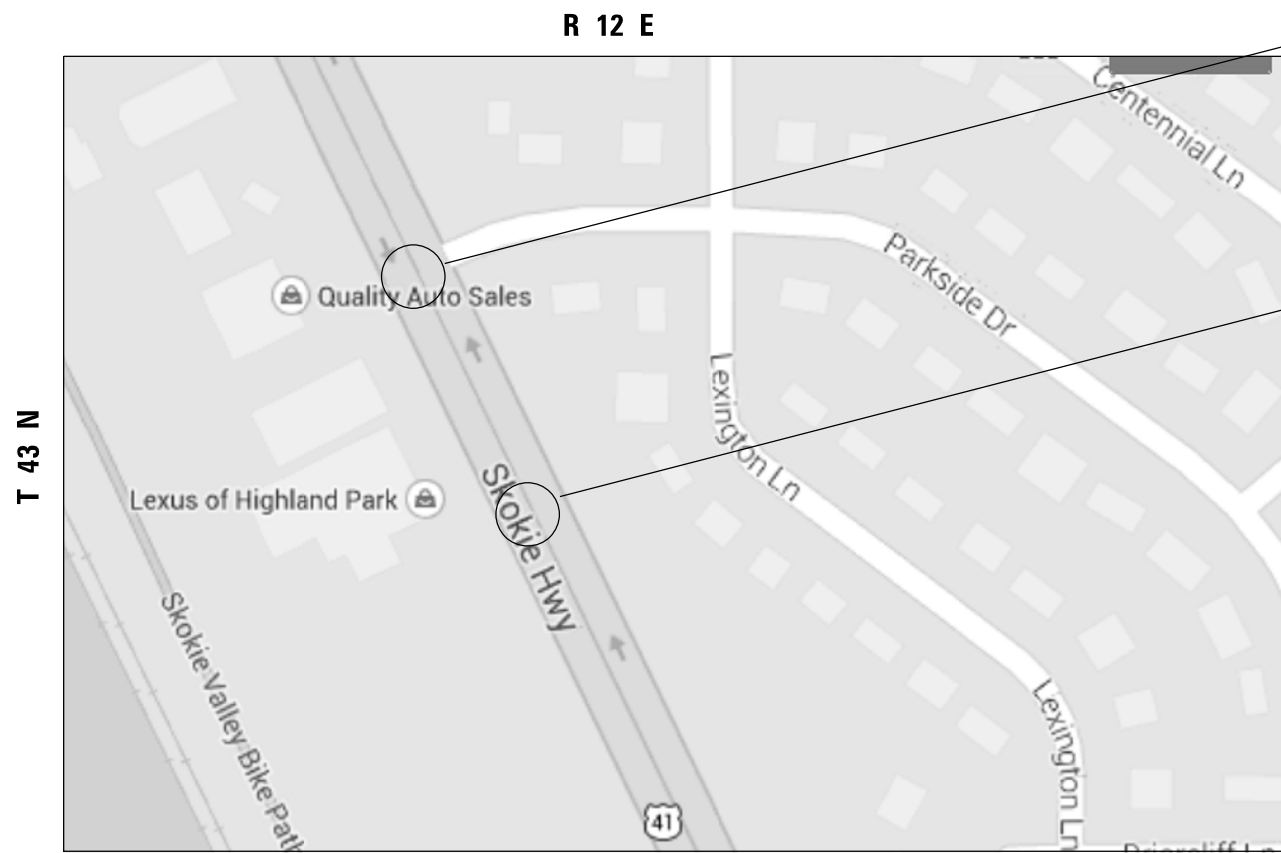


**FULL DEPTH REPAIR
REPLACE 5 FT OF BARRIER WALL LOC. 7
FOR MORE DETAILS SEE SHEET #6**

BILL OF MATERIALS

ITEM	UNIT	LOC. 6 QUANTITY	LOC. 7 QUANTITY
CONCRETE REMOVAL	CU. YDS	0.65	0.7
CONCRETE STRUCTURES	CU. YDS	0.65	0.7
TIE BARS	EACH	5	5
DOWEL BARS	EACH	3	3
SAW CUT	FOOT	5.5	5.5
EARTH EXCAVATION	CU. YDS	0.65	
TEMPORARY EROSION CONTROL	SQ. YDS	1.2	
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.12	
SEEDING CLASS 2A	ACRE	0.00025	
PROTECTIVE COAT	SQ. YDS	2.5	4
FRAMES & GRATES TO BE ADJUSTED	EACH		1





VILLAGE OF HIGHLAND PARK
WEST DEERFIELD TOWNSHIP
LAKE COUNTY

LOCATION 9: US 41
(SKOKIE HWY)
CENTER MEDIAN AT PARKSIDE DR
(0.61 M NORTH OF HALF WAY RD)

LOCATION 8: US 41
(SKOKIE HWY)
CENTER MEDIAN AT LEXUS
DEALERSHIP SOUTH OF PARKSIDE DR
(0.6 M NORTH OF HALF WAY RD)



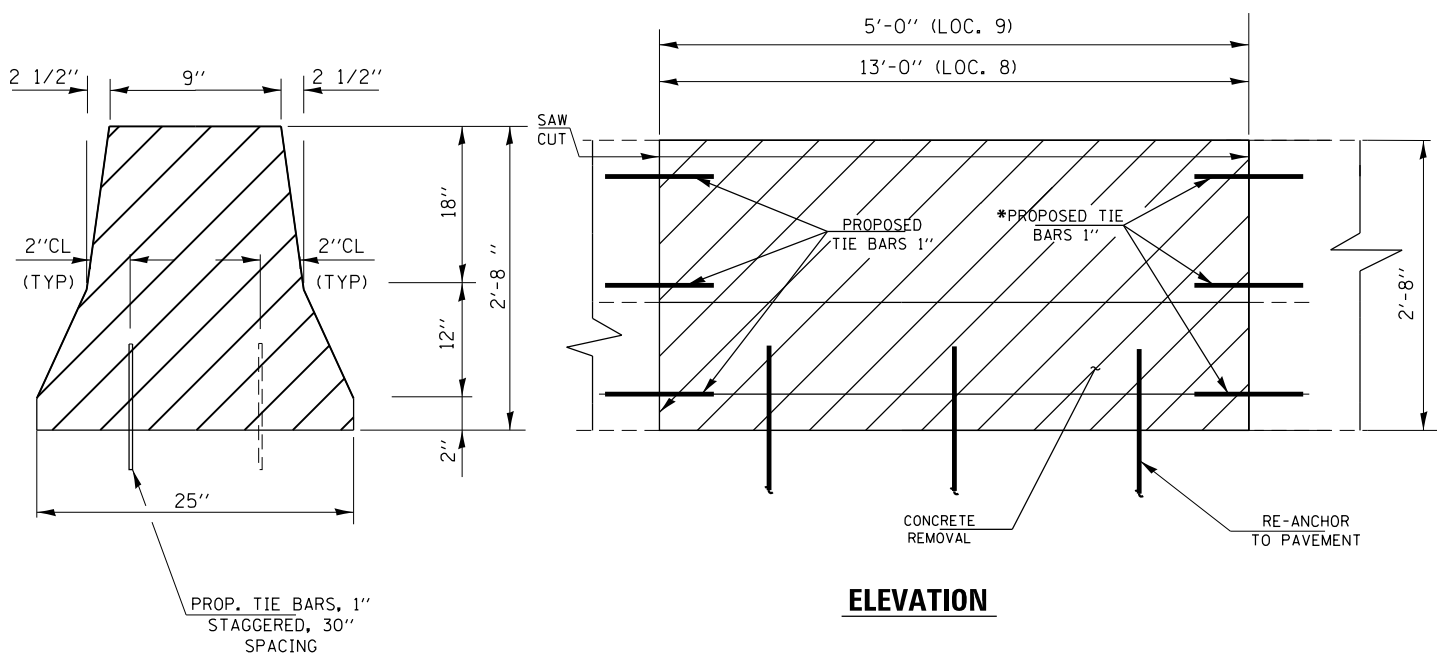
FULL DEPTH REPAIR
REPLACE 13 FT OF BARRIER WALL LOC. 8
FOR MORE DETAILS SEE SHEET #6

BILL OF MATERIALS

ITEM	UNIT	LOC. 8 QUANTITY	LOC. 9 QUANTITY
CONCRETE REMOVAL	CU. YDS	1.65	0.65
CONCRETE STRUCTURES	CU. YDS	1.65	0.65
TIE BARS	EACH	11	8
SAW CUT	FOOT	5.5	5.5
PROTECTIVE COAT	SQ. YDS	9	9



FULL DEPTH REPAIR
REPLACE 5 FT OF BARRIER WALL LOC. 9
FOR MORE DETAILS SEE SHEET #6



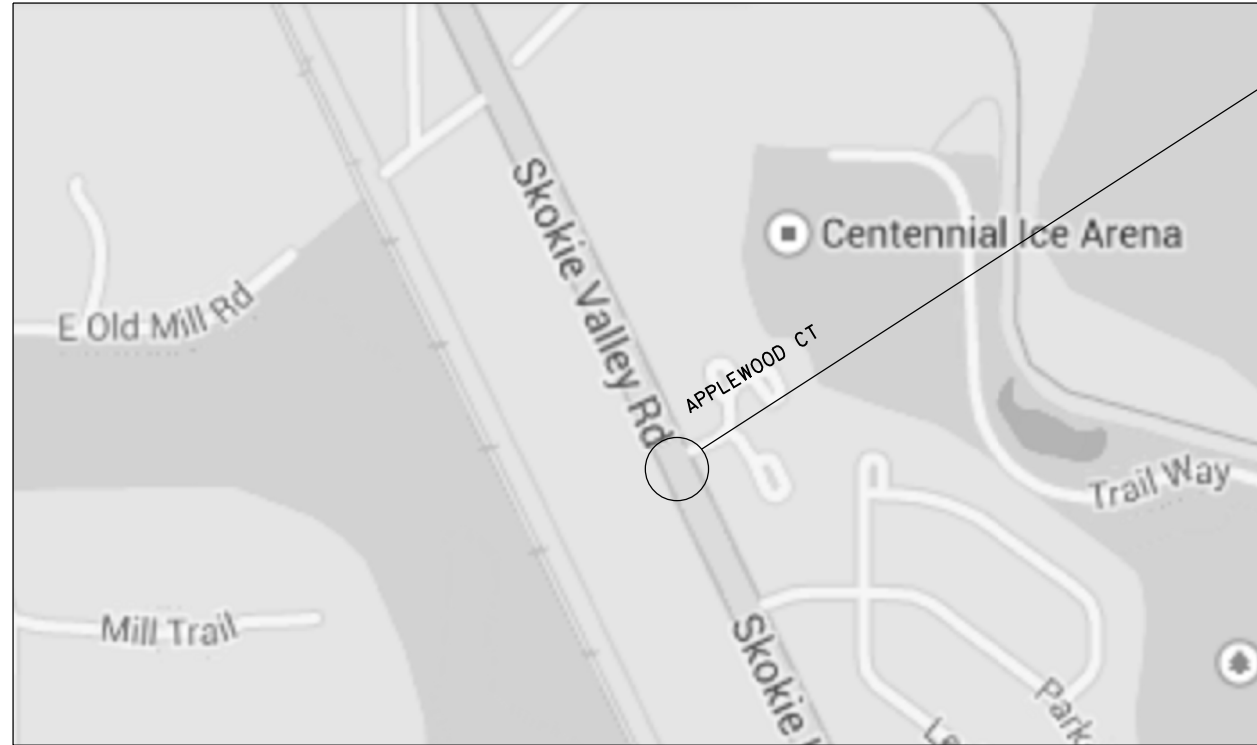
ELEVATION

TRAFFIC DATA

US-41: 2013 ADT = 49400
SPEED LIMIT = 40-50 MPH

R 12 E

T 43 N



**LOCATION 10: US 41
(SKOKIE HWY)
SOUTH OF APPLEWOOD CT
(0.75 M NORTH OF
HALF DAY RD)**



**VILLAGE OF HIGHLAND PARK
WEST DEERFIELD TOWNSHIP
LAKE COUNTY**



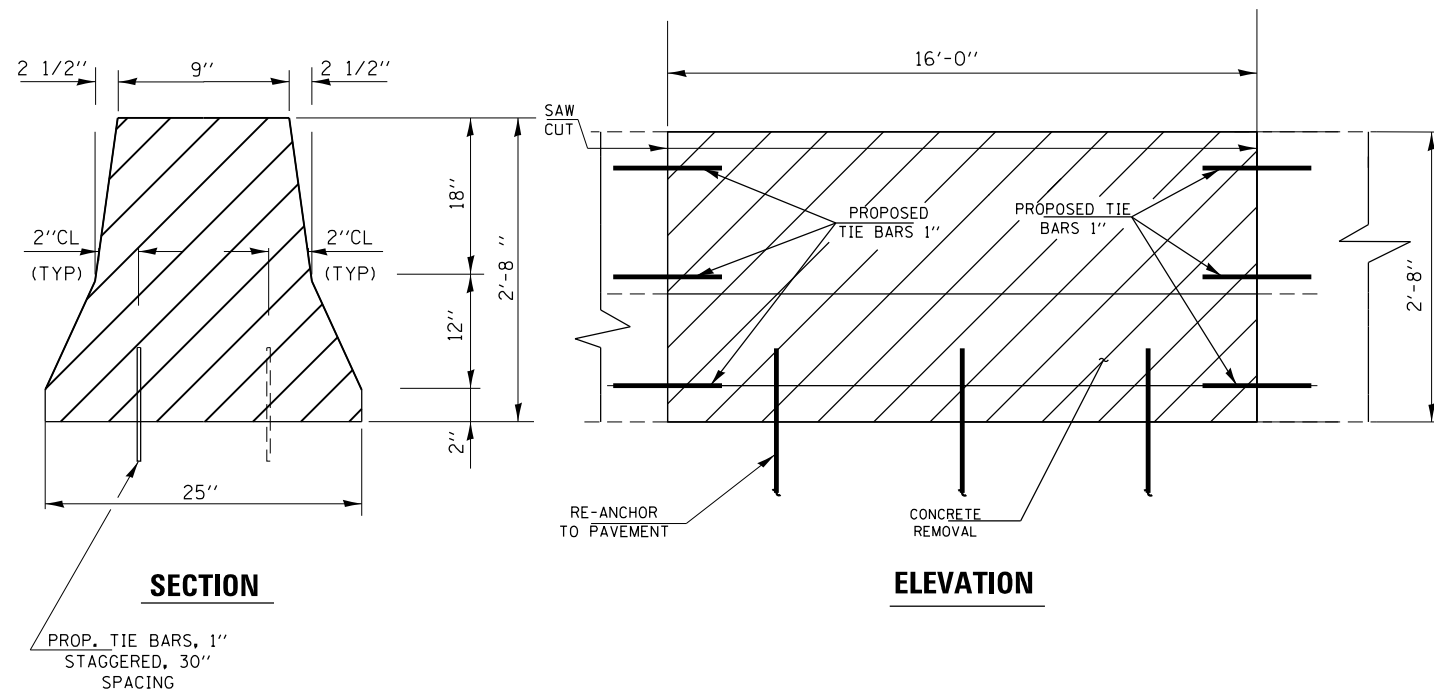
**FULL DEPTH REPAIR
REPLACE 16 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #6**

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	2.1
CONCRETE STRUCTURES	CU. YDS	2.1
TIE BARS	EACH	12
SAW CUT	FOOT	5.5
PROTECTIVE COAT	SQ. YDS	11

TRAFFIC DATA

**US-41: 2013 ADT = 49400
SPEED LIMIT = 40-50 MPH**



FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -
ct:\pw\work\p\dot\gorengautab\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/4/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

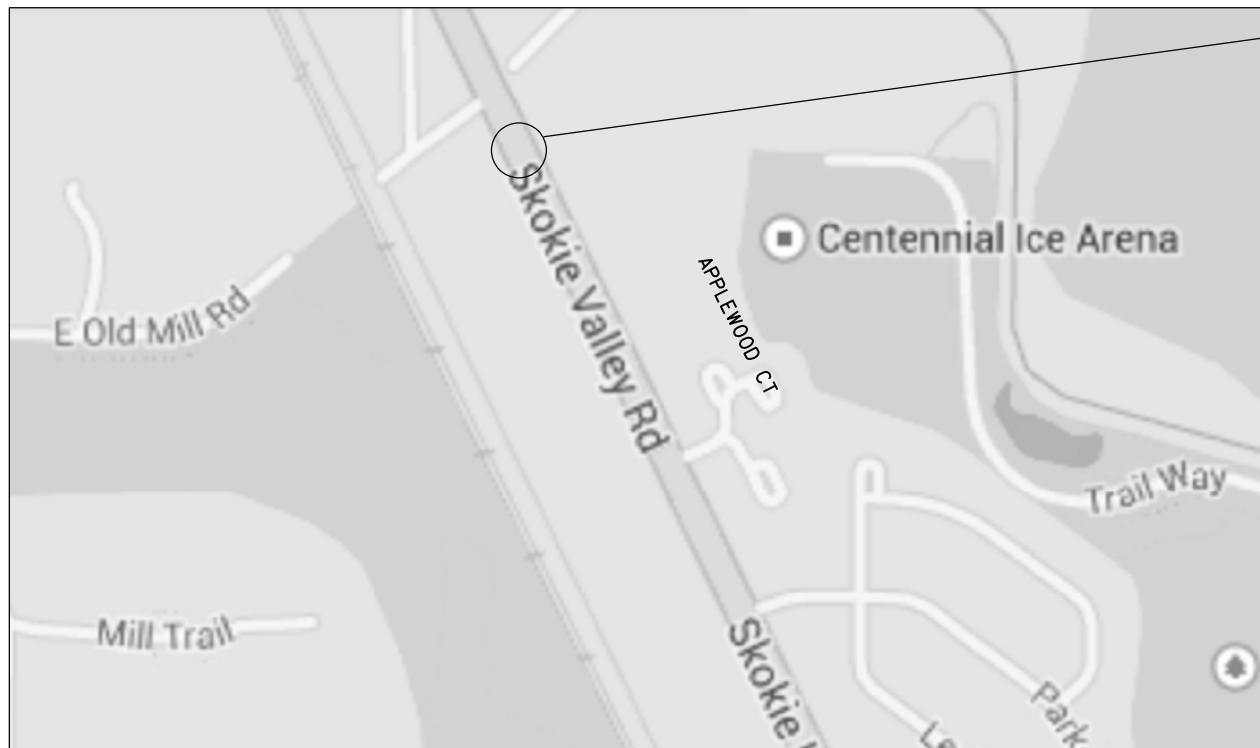
**LOCATION 10
US 41 (SKOKIE HWY)**

SCALE: SHEET OF SHEETS STA. TO STA.

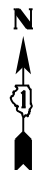
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	16
CONTRACT NO. 62A29				
ILLINOIS FED. AID PROJECT				

R 12 E

T 43 N



LOCATION 11: US 41
(SKOKIE HWY)
0.1 M SOUTH OF
OLD MILL RD, NEAR
PASQUESI PLUMBING



VILLAGE OF HIGHLAND PARK
WEST DEERFIELD TOWNSHIP
LAKE COUNTY



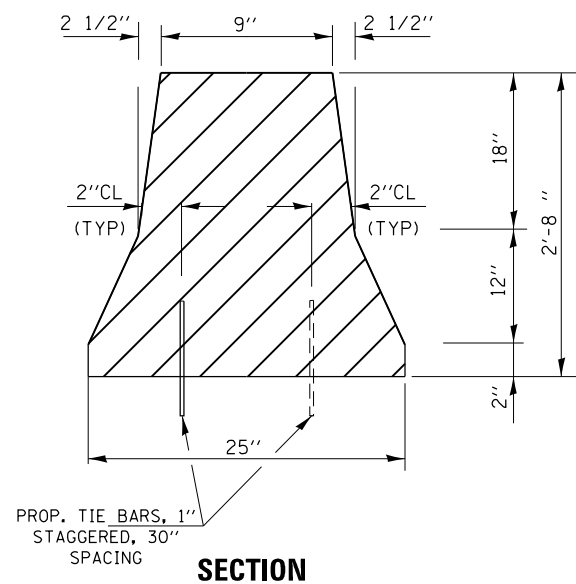
FULL DEPTH REPAIR
REPLACE 6 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #6

BILL OF MATERIALS

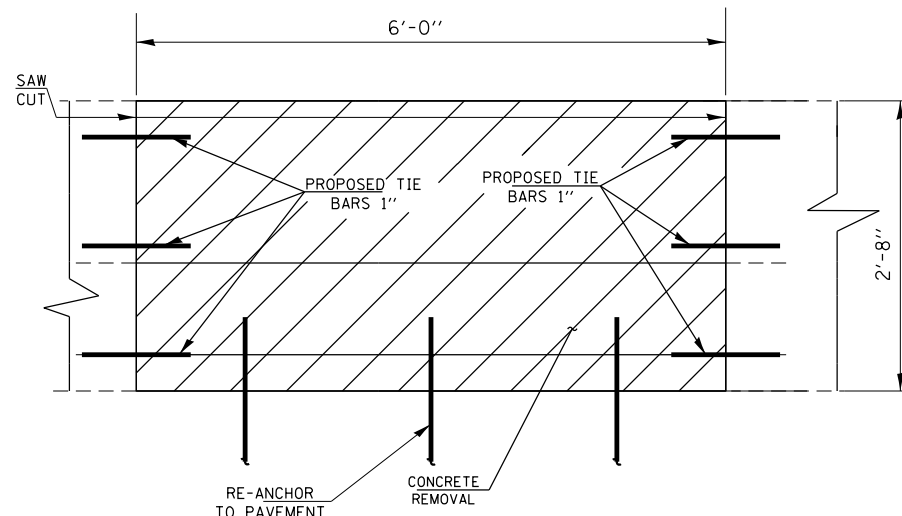
ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.76
CONCRETE STRUCTURES	CU. YDS	0.76
TIE BARS	EACH	8
SAW CUT	FOOT	5.5
PROTECTIVE COAT	SQ. YDS	4.2

TRAFFIC DATA

US-41: 2013 ADT = 37900
SPEED LIMIT = 40-50 MPH



SECTION



ELEVATION

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -
et:\pw\work\p1\dot\gorengautab\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/9/2015	DATE -	REVISED -

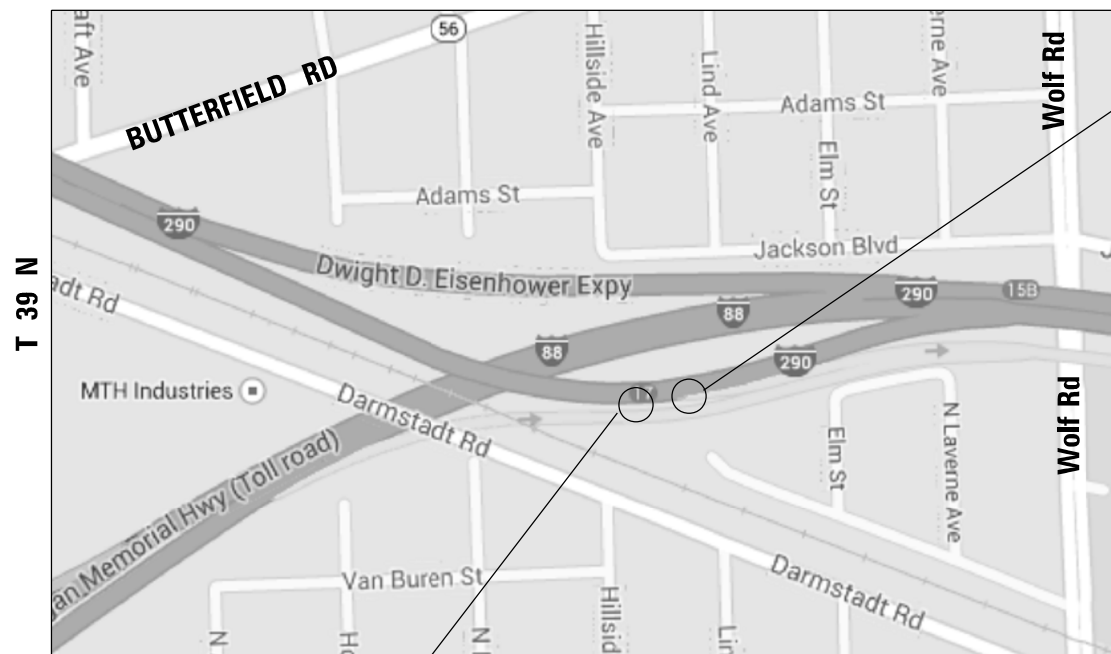
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 11
US 41 (SKOKIE HWY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	17
			CONTRACT NO. 62A29	
ILLINOIS FED. AID PROJECT				

R 12 E



**LOCATION 12: I-290 EB
(EISENHOWER EXPY)
EAST OF BUTTERFIELD RD
RIGHT SIDE NEXT TO
OVERHEAD SIGN**



BILL OF MATERIALS

ITEM	UNIT	LOC. 12 QUANTITY	LOC. 13 QUANTITY
CONCRETE REMOVAL	CU. YDS	0.8	1.5
CONCRETE STRUCTURES	CU. YDS	0.8	1.5
TIE BARS	EACH	10	13
SAW CUT	FOOT	5.5	5.5
EARTH EXCAVATION	CU. YDS	1.25	2.25
TEMPORARY EROSION CONTROL	SQ. YDS	2.25	4.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.25	0.45
SEEDING CLASS 2A	ACRE	0.0005	0.001
PROTECTIVE COAT	SQ. YDS	4.0	7.0



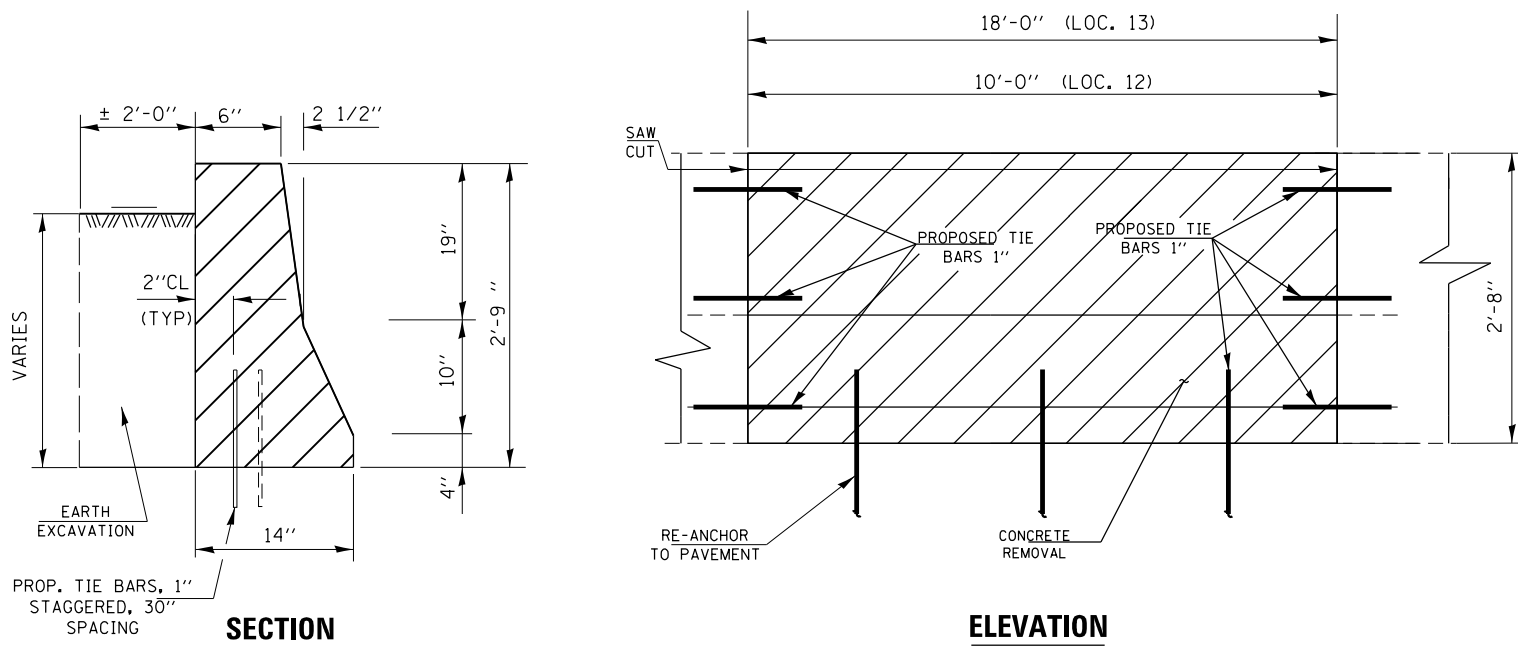
**FULL DEPTH REPAIR
REPLACE 10 FT OF BARRIER WALL LOC.12
FOR MORE DETAILS SEE SHEET #6**

**LOCATION 13: I-290 EB
(EISENHOWER EXPY)
EXIT RAMP ABOUT 2100'
EAST OF BUTTERFIELD RD
RIGHT SIDE**

**VILLAGE OF HILLSIDE
PROVISO TOWNSHIP
LAKE COUNTY**



**FULL DEPTH REPAIR
REPLACE 18 FT OF BARRIER WALL LOC. 13
FOR MORE DETAILS SEE SHEET #6**



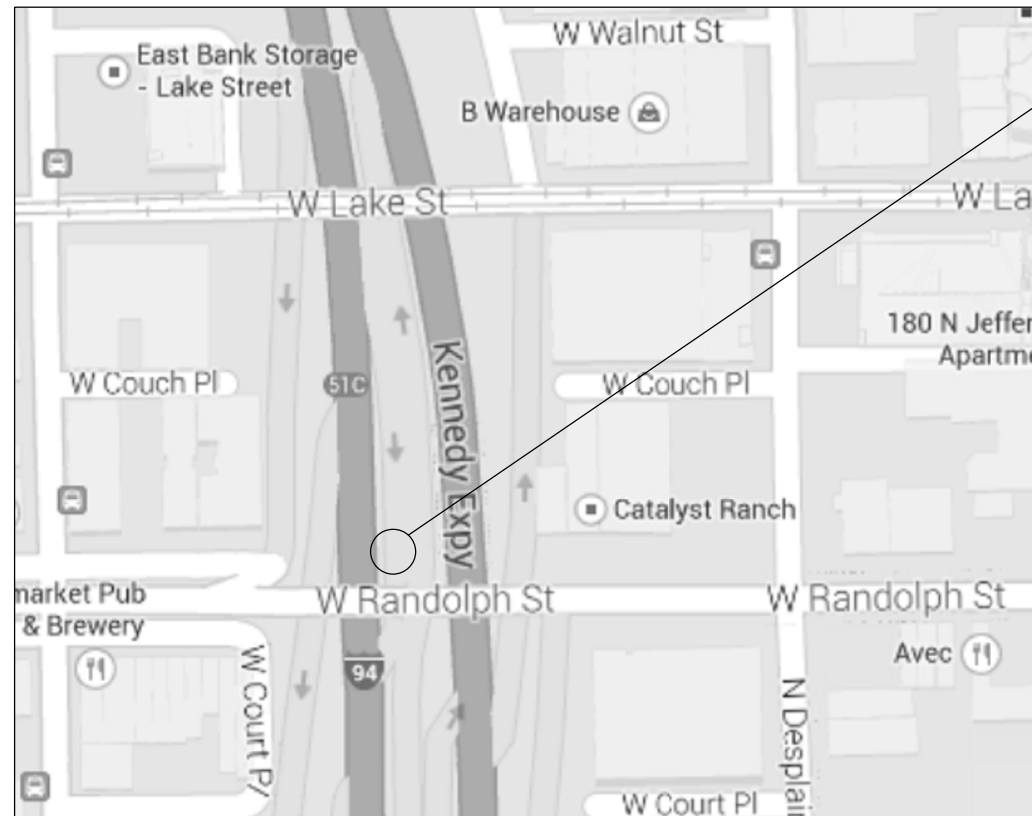
TRAFFIC DATA

**I-290: 2013 ADT = 90900
SPEED LIMIT = 55 MPH**

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 12 & 13 I-290 (EISENHOWER EXPY)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	0112715-sh-t-plen.dgn	DRAWN -	REVISED -			VAR.	2014-0801	VARIOUS	50	18	
	PLOT SCALE = 100.0000' / 1".	CHECKED -	REVISED -			CONTRACT NO. 62A29					
	PLOT DATE = 2/4/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

R 14 E

T 39 N



**LOCATION 14:
LAKE ST RAMP TO I-94
EB (J.F. KENNEDY EXPY)
RIGHT SIDE OF RAMP**



**CITY OF CHICAGO
WEST CHICAGO TOWNSHIP, COOK COUNTY**



**FULL DEPTH REPAIR
REPLACE 6 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #6**

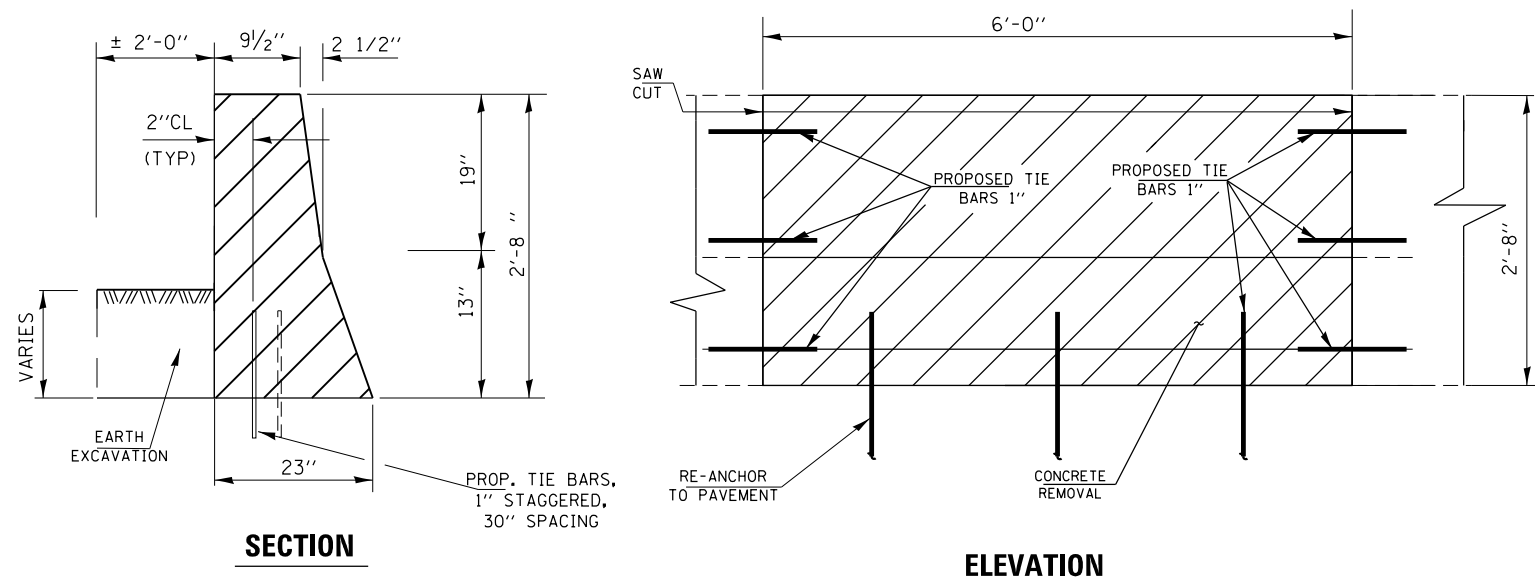
TRAFFIC DATA

**I 90/94: 2013 ADT = 248300
SPEED LIMIT = 55 MPH**

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.75
CONCRETE STRUCTURES	CU. YDS	0.75
TIE BARS	EACH	9
SAW CUT	FOOT	5.5
EARTH EXCAVATION	CU. YDS	0.55
PROTECTIVE COAT	SQ. YDS	2.6

NOTE: CONTRACTOR SHALL USE PP-5 CONCRETE FOR THE BARRIER WALL REPAIR AT THIS LOCATION ONLY.



FILE NAME =	USER NAME = Gorengautob	DESIGNED -	REVISED -
ei:\pw\work\p\dot\gorengautob\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 2/9/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 14
LAKE STREET RAMP**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	19
CONTRACT NO. 62A29				
ILLINOIS FED. AID PROJECT				

R 14 E



**LOCATION 15: I-90/94
EB (J.F. KENNEDY EXPY)
BEFORE DIVISION ST EXIT RAMP**



**FULL DEPTH REPAIR
REPLACE 7 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #6**

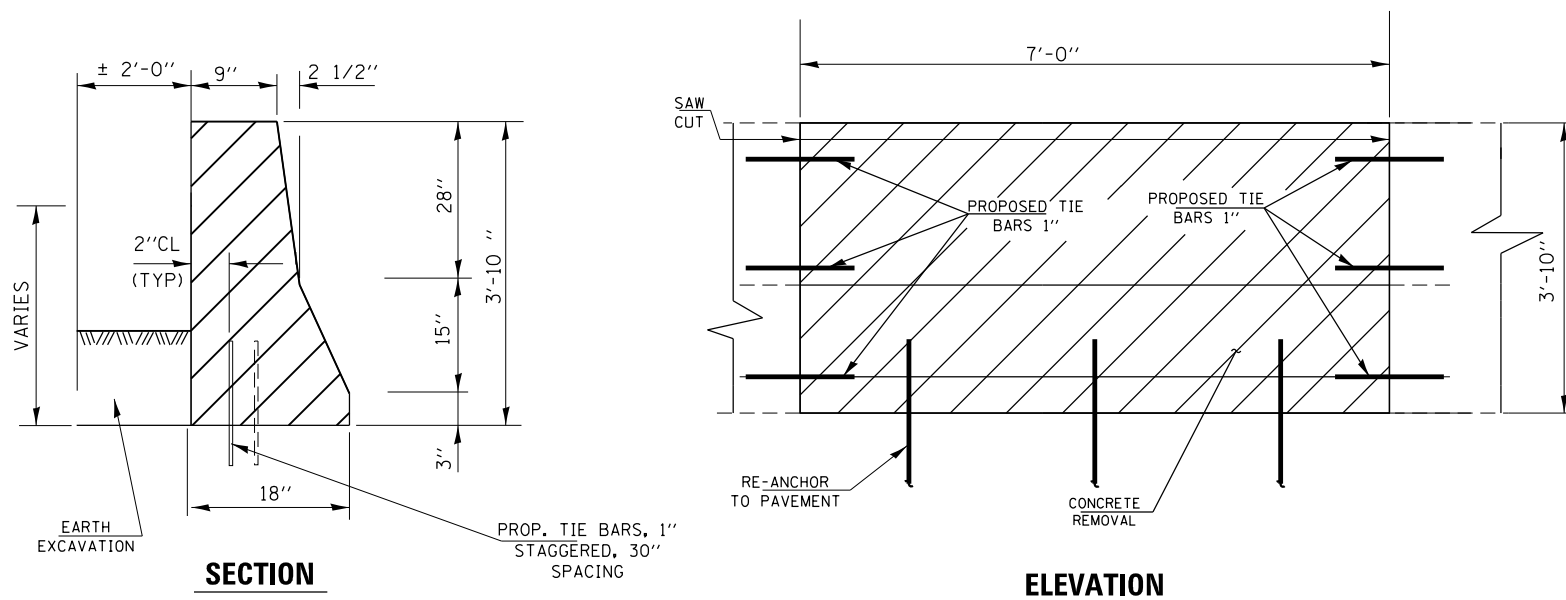
**CITY OF CHICAGO
WEST CHICAGO TOWNSHIP, COOK COUNTY**

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.1
CONCRETE STRUCTURES	CU. YDS	1.1
TIE BARS	EACH	9
SAW CUT	FOOT	8.0
EARTH EXCAVATION	CU. YDS	0.9
TEMPORARY EROSION CONTROL	SQ. YDS	1.6
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.20
SEEDING CLASS 2A	ACRE	0.0004
PROTECTIVE COAT	SQ. YDS	4.0

TRAFFIC DATA

**I 90/94: 2013 ADT = 292700
SPEED LIMIT = 55 MPH**



FILE NAME =	USER NAME = Gorengautob	DESIGNED -	REVISED -
ct:\pw\work\p\dot\gorengautob\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 2/6/2015	DATE -	REVISED -

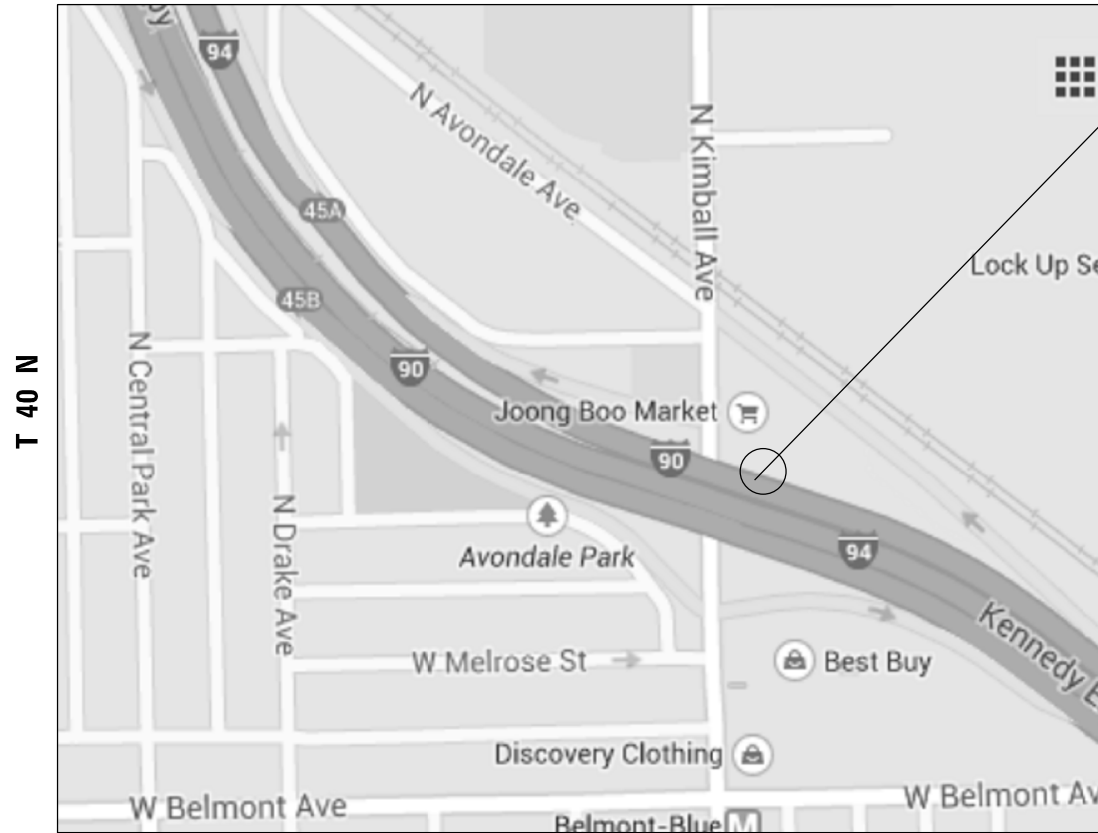
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 15
I-90/94 (KENNEDY ESPY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	20
			CONTRACT NO. 62A29	
ILLINOIS FED. AID PROJECT				

R 13 E



**LOCATION 16A:
I-90/94 WB (J.F. KENNEDY EXPY)
EAST OF KIMBALL AVE NEAR
OVERHEAD SIGN RIGHT SIDE**

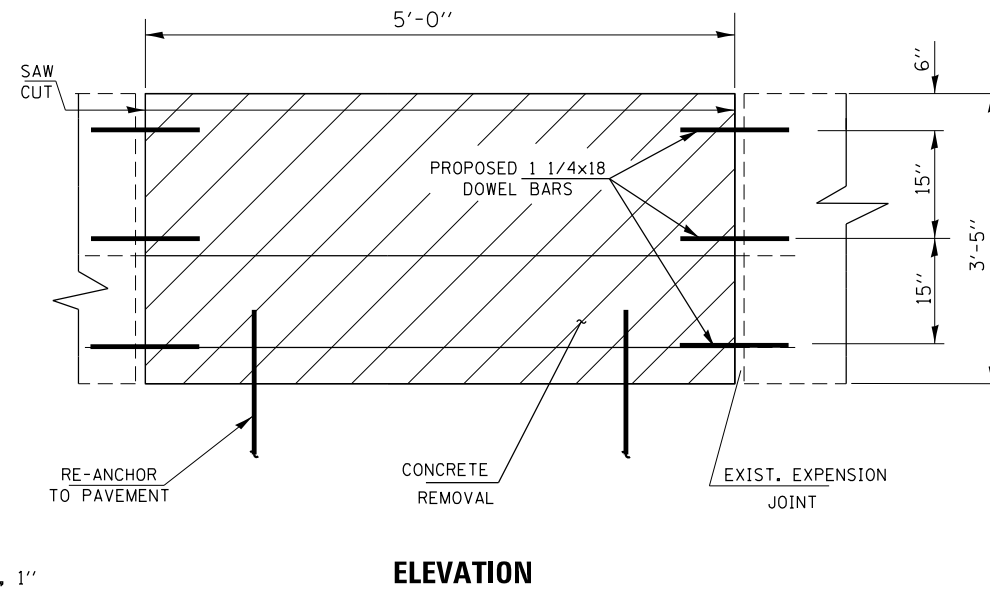
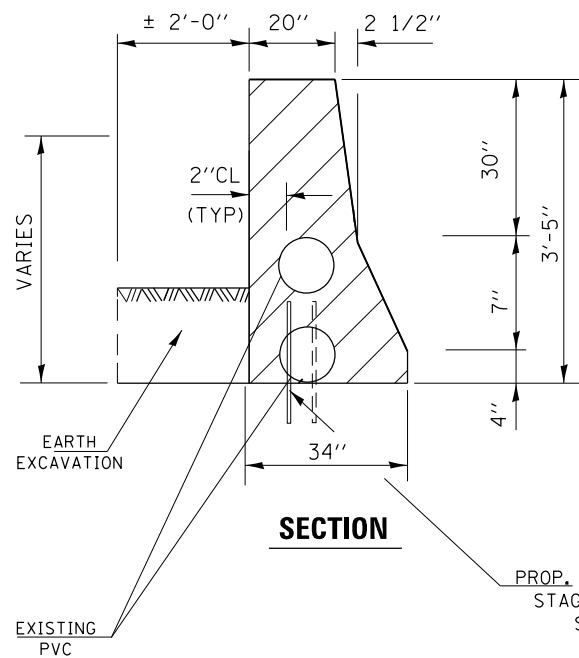


**FULL DEPTH REPAIR
REPLACE 5 FT OF BARRIER WALL WITH LIGHT POLE FOUNDATION
FOR MORE DETAILS SEE STANDARD 637001.**

GENERAL NOTES

1. CAST IN PLACE CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI
2. ALL DOWELS DRILLED INTO EXISTING STRUCTURES WILL BE GROUTED WITH READ HEAD C-6 EPOXY.

**CITY OF CHICAGO
WEST CHICAGO TOWNSHIP, COOK COUNTY**



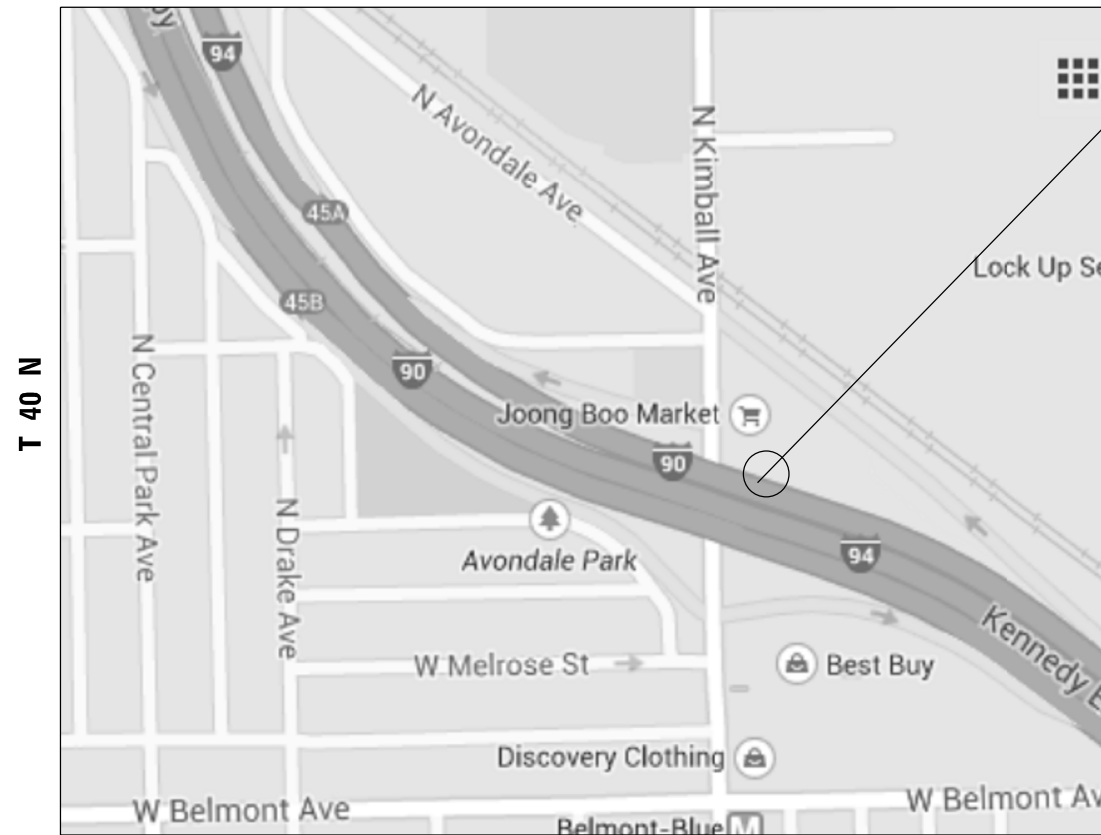
TRAFFIC DATA

**I-90/94: 2013 ADT = 256300
SPEED LIMIT = 55 MPH**

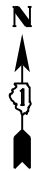
BILL OF MATERIALS

ITEM	UNIT	LOC. 16A QUANTITY
CONCRETE REMOVAL	CU. YDS	1.35
CONCRETE STRUCTURES	CU. YDS	1.35
DOWEL BARS	EACH	6
TIE BARS	EACH	2
EARTH EXCAVATION	CU. YDS	0.65
TEMPORARY EROSION CONTROL	SQ. YDS	1.1
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.15
SEEDING CLASS 2A	ACRE	0.0002
PROTECTIVE COAT	SQ. YDS	3.5

R 13 E



**LOCATION 16B:
I-90/94 WB
(J.F. KENNEDY EXPY)
EAST OF KIMBALL AVE
NEAR OVERHEAD SIGN
RIGHT SIDE**



**FULL DEPTH REPAIR
REPLACE 12 FT OF BARRIER WALL (LOC. 16 B)
FOR MORE DETAILS SEE SHEET #6**

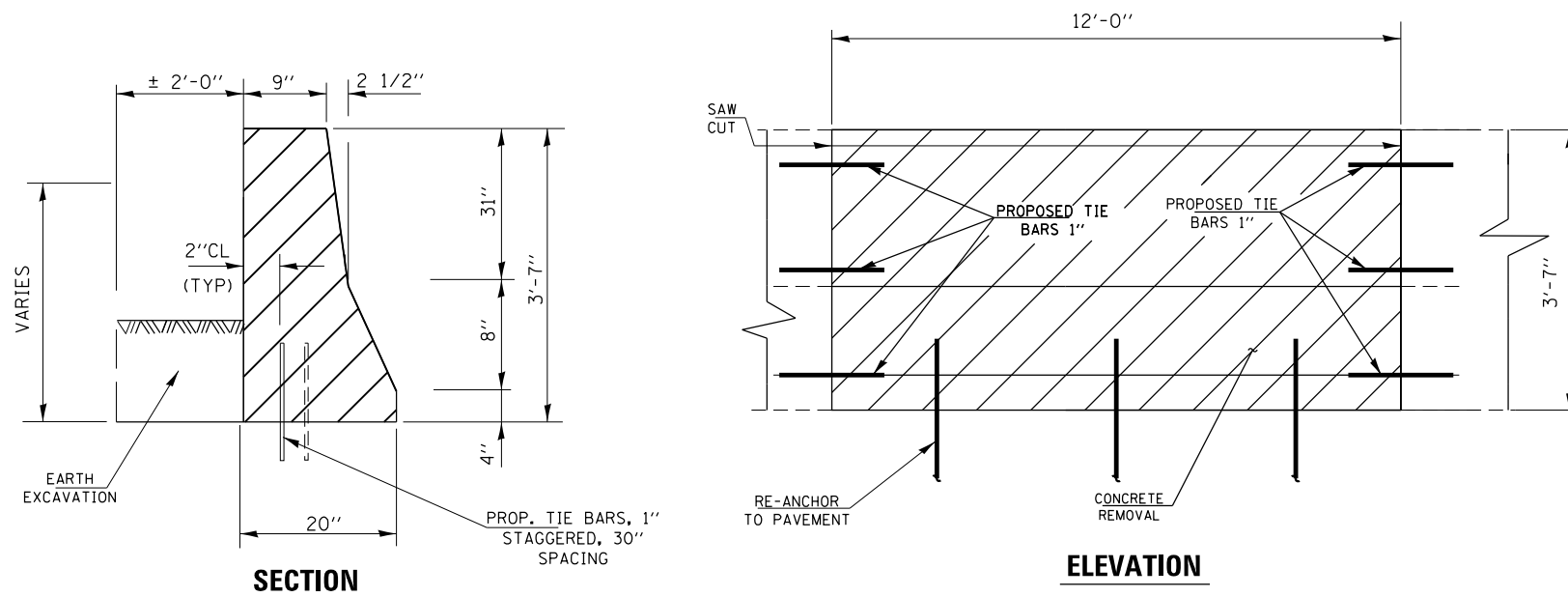
**CITY OF CHICAGO
WEST CHICAGO TOWNSHIP, COOK COUNTY**

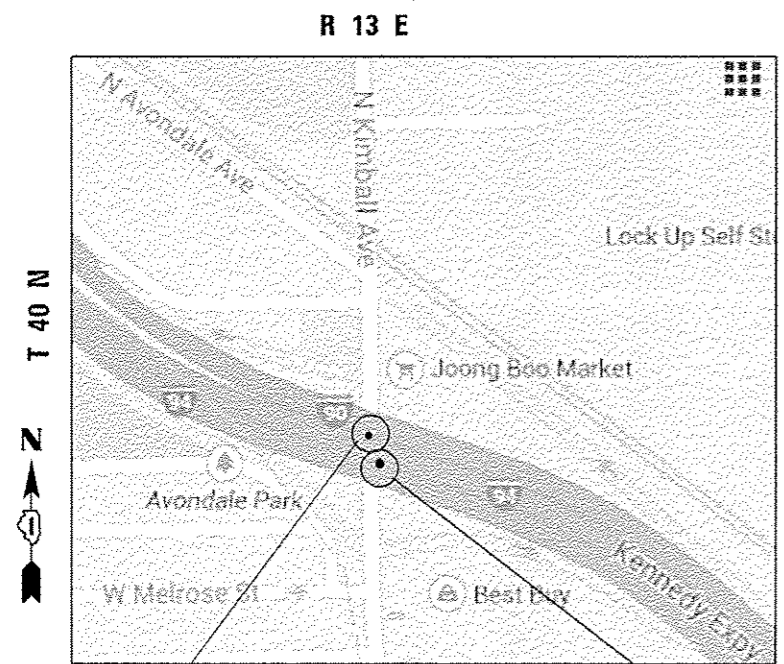
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.62
CONCRETE STRUCTURES	CU. YDS	1.62
TIE BARS	EACH	11
SAW CUT	FOOT	7.5
EARTH EXCAVATION	CU. YDS	1.5
TEMPORARY EROSION CONTROL	SQ. YDS	2.7
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.3
SEEDING CLASS 2A	ACRE	0.0006
PROTECTIVE COAT	SQ. YDS	6.5

TRAFFIC DATA

**I-90/94: 2013 ADT = 256300
SPEED LIMIT = 55 MPH**

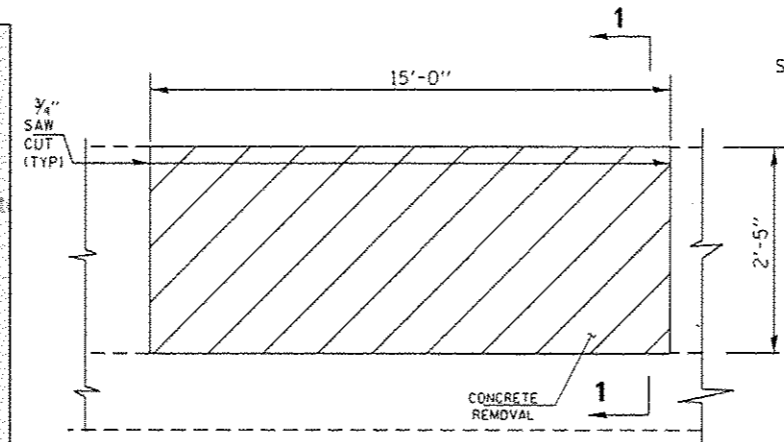




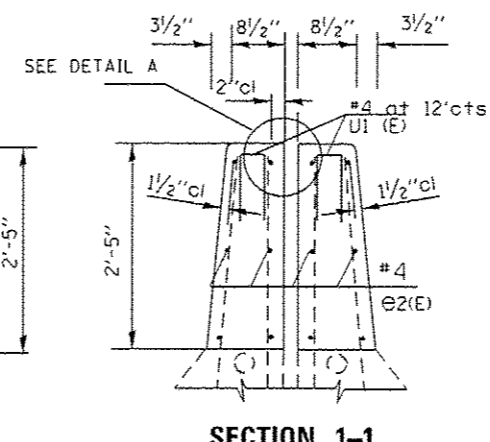
CITY OF CHICAGO
JEFFERSON TOWNSHIP, COOK COUNTY

LOCATION 17:
I-90 /94 (KENNEDY EXPY) OVER
KIMBALL AVE. DOUBLE PARAPET
WALL PARTIAL REPAIR BETWEEN
OUTBOUND AND REVERSIBLE LANES
SN 016-1109 & 016-0120

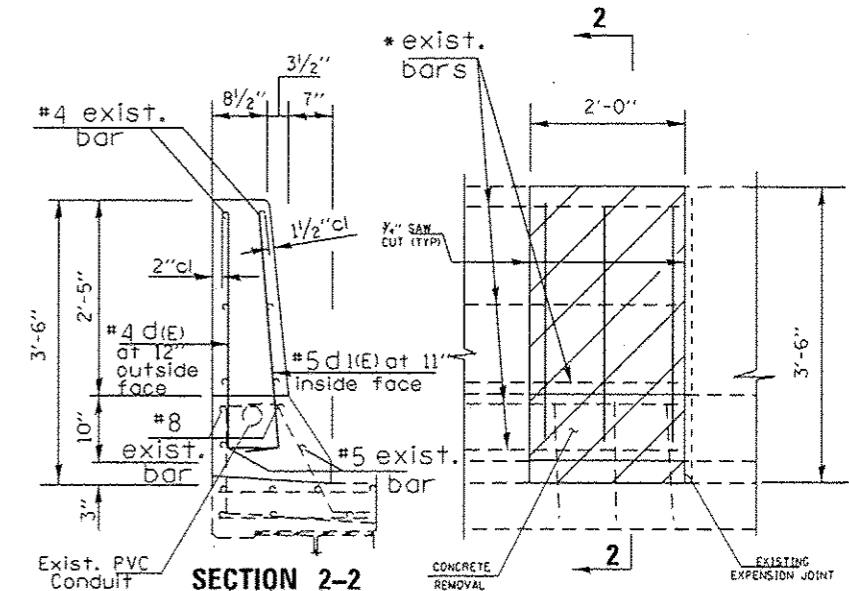
LOCATION 19:
I-90 /94 (KENNEDY EXPY) OVER
KIMBALL AVE. WEST END OF DOUBLE
PARAPET WALL. FULL HEIGHT REPAIR
BETWEEN INBOUND AND
REVERSIBLE LANES
SN 016-1109 & 016-0120



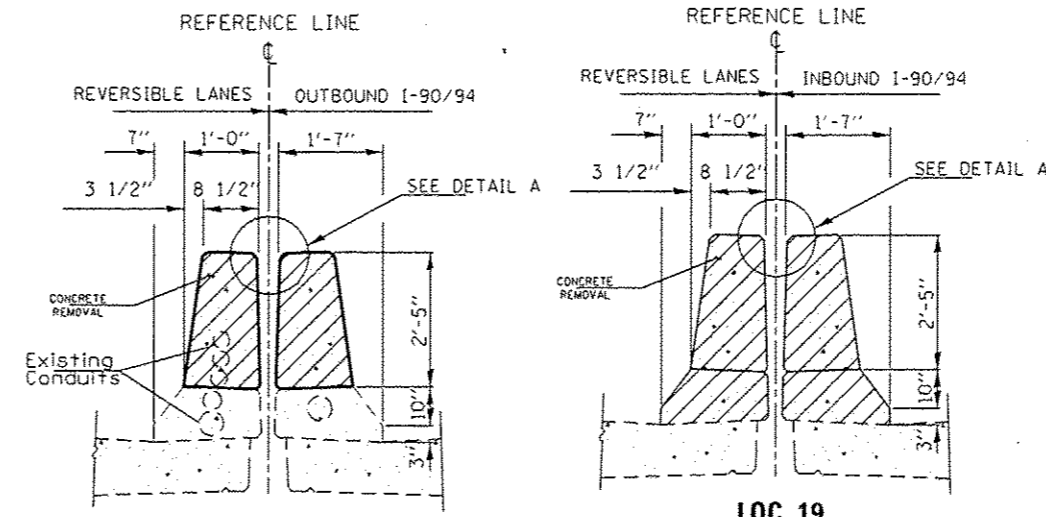
ELEVATION (LOC. 17)
PARTIAL HEIGHT REPAIR



SECTION 1-1



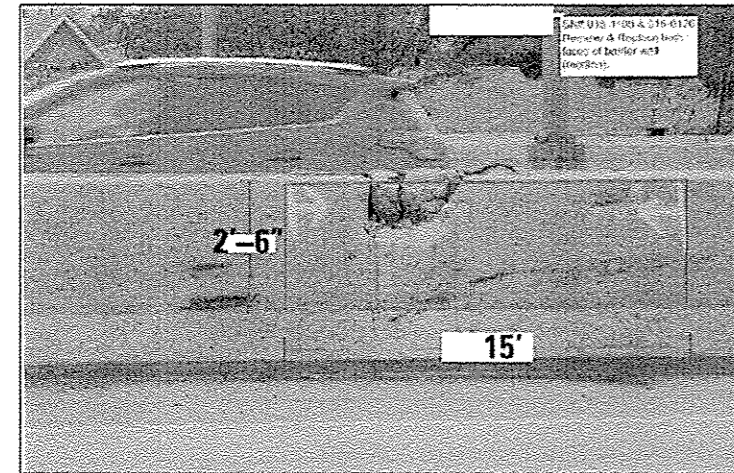
ELEVATION (LOC.19)
FULL HEIGHT REPAIR



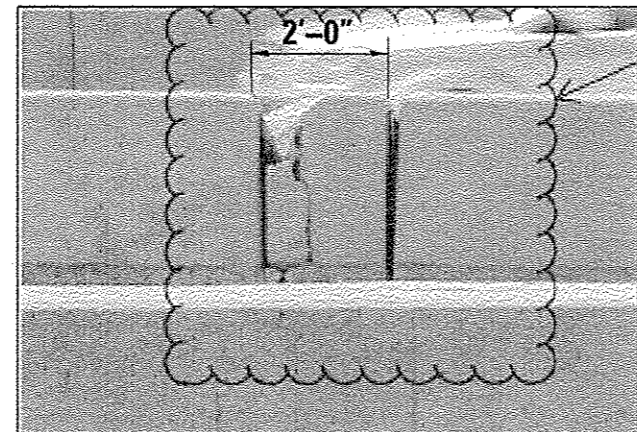
LOC. 17

LOC. 19

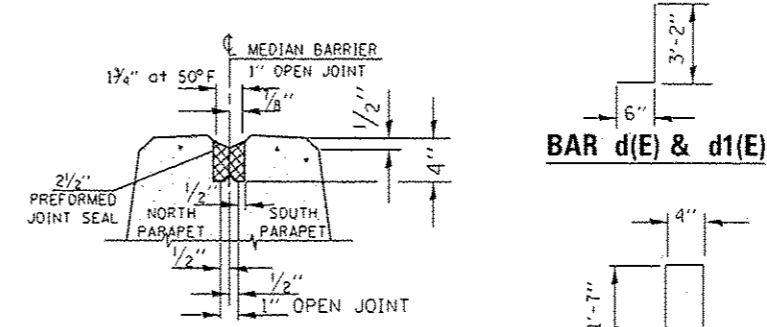
MATERIALS SHOWN ARE TO BE INSTALLED
BETWEEN THE OUTBOUND AND REVERSIBLE
LANES PARAPETS AND COST INCIDENTAL TO
CONCRETE SUPERSTRUCTURE.



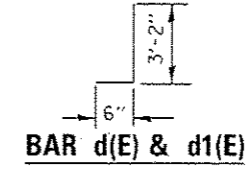
PARTIAL DEPTH REPAIR (LOC. 17)
REPLACE 15 FT OF BARRIER WALL



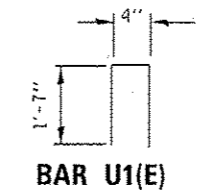
FULL DEPTH REPAIR (LOC.19)
REPLACE 2 FT OF BARRIER WALL



DETAIL A
(EXISTING JOINT OPENING)



BAR d(E) & d1(E)



BAR U1(E)

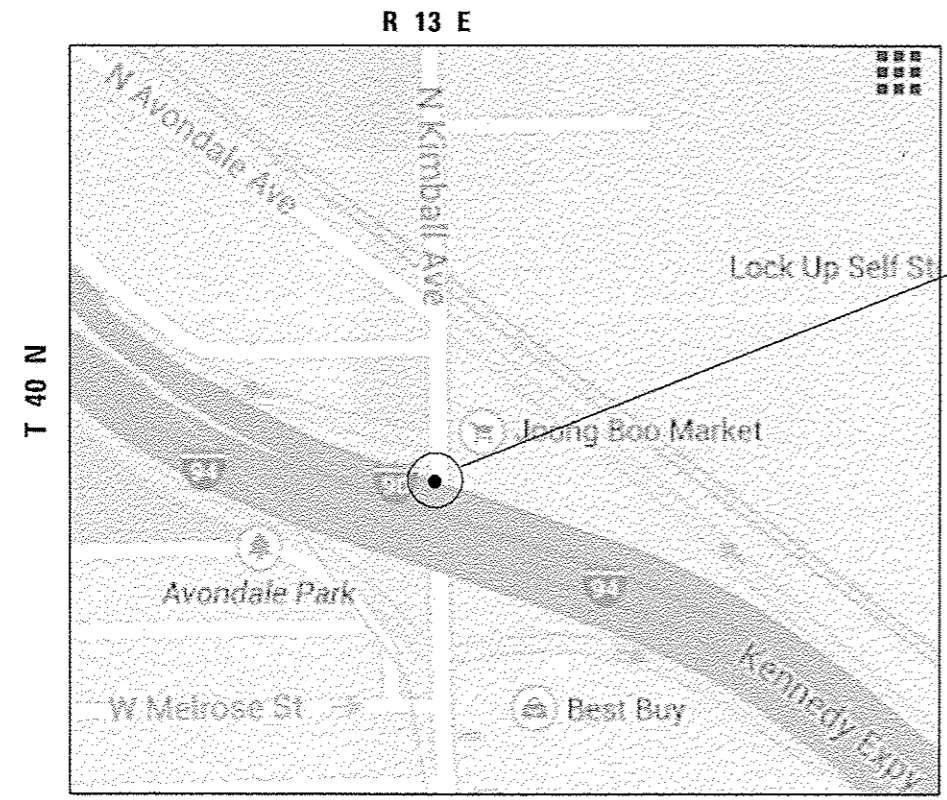
BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY LOC. 17	QUANTITY LOC. 19
e ₂ (E)	#4	14'-9"	—	6	
u ₁ (E)	#4	3'-6"	□	16	
d(E)	#4	3'-8"	┌		3
d ₁ (E)	#5	3'-8"	┌		3
MECHANICAL SPLICERS				EACH	12
REINFORCEMENT BARS EPOXY COATED				LBS	134 20
CONCRETE SUPERSTRUCTURE				CU. YDS	2.3 0.52
CONCRETE REMOVAL				CU. YDS	2.3 0.52
PROTECTIVE COAT				SQ. YDS	11 2
SAW CUT				FOOT	10 14
PREFORMED JOINT SEALER 2 1/2"				FOOT	15 2

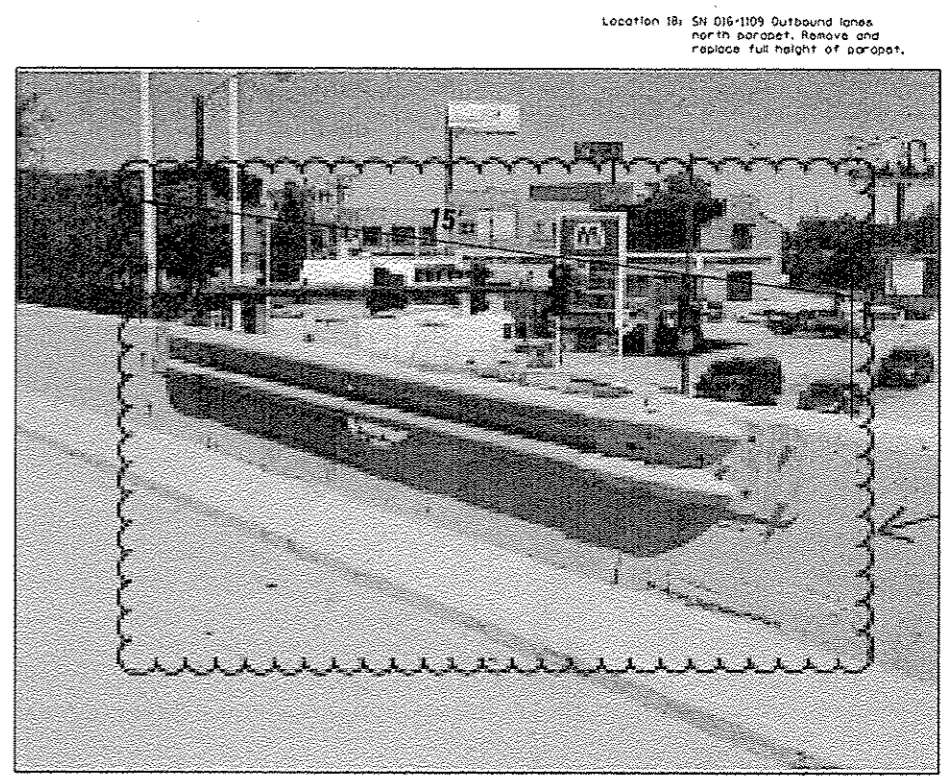
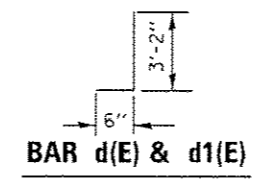
FOR LOCATIONS SEE PLAN SHEET #4 OF 6.
* EXIST. HORIZONTAL BARS TO BE CLEANED UP
AND INCORPORATED INTO THE NEW CAST
IN PLACE CONCRETE.

TRAFFIC DATA

I-90/94: 2013 ADT = 256300
SPEED LIMIT = 55 MPH



LOCATION 18:
I-90 /94 (KENNEDY EXPY) OVER
KIMBALL AVE. OUTBOUND LANES NORTH
PARAPET WALL. FULL HEIGHT REPAIR.
SN 016-1109

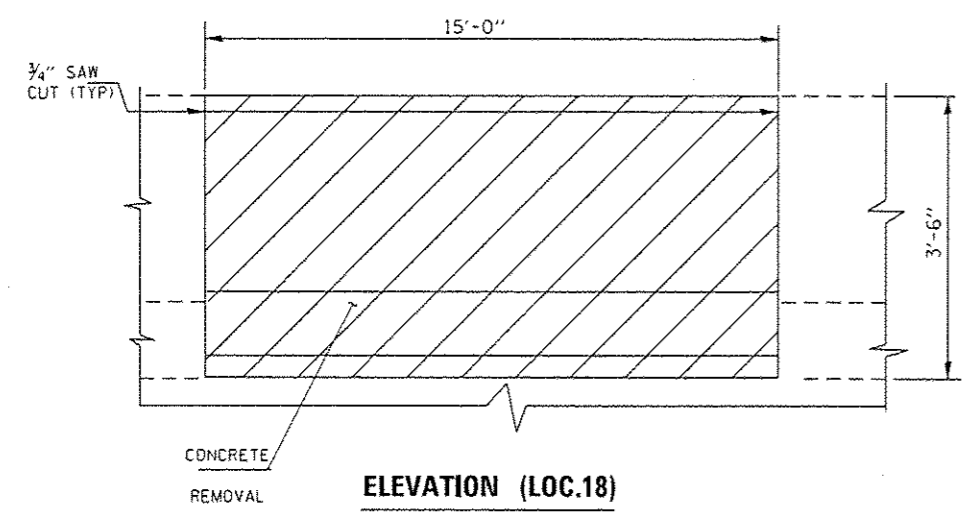


CITY OF CHICAGO
JEFFERSON TOWNSHIP, COOK COUNTY

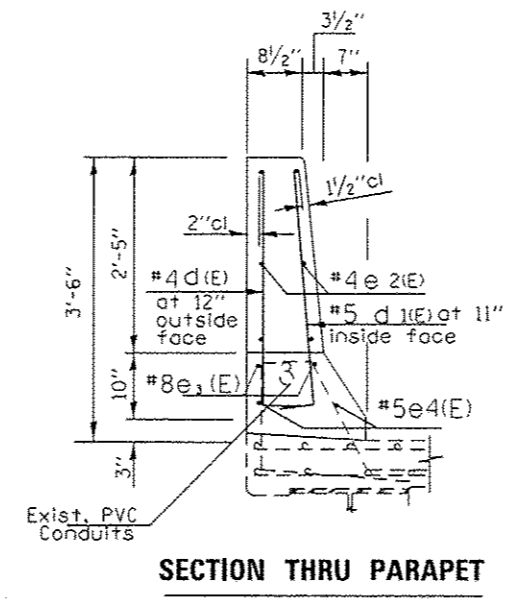
FULL DEPTH REPAIR
REPLACE 15 FT OF BARRIER WALL

BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY
e ₂ (E)	#4	14'-9"	—	6
e ₃ (E)	#8	14'-9"	—	2
e ₄ (E)	#5	14'-9"	—	2
d(E)	#4	3'-8"	└	16
d ₁ (E)	#5	3'-8"	└	17
REINFORCEMENT BARS EPOXY COATED			LBS	306
CONCRETE SUPERSTRUCTURE			CU. YDS	2.0
CONCRETE REMOVAL			CU. YDS	2.0
PROTECTIVE COAT			SQ. YDS	7.5
SAW CUT			FOOT	7
MECHANICAL SPLICERS			EACH	20



ELEVATION (LOC.18)
FULL HEIGHT REPAIR

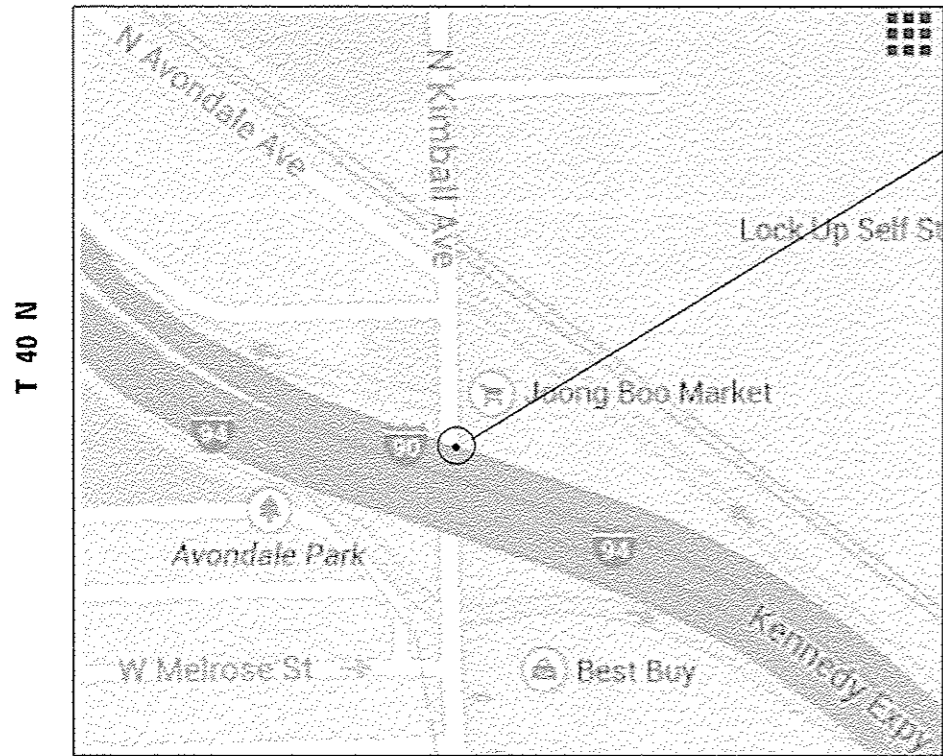


SECTION THRU PARAPET

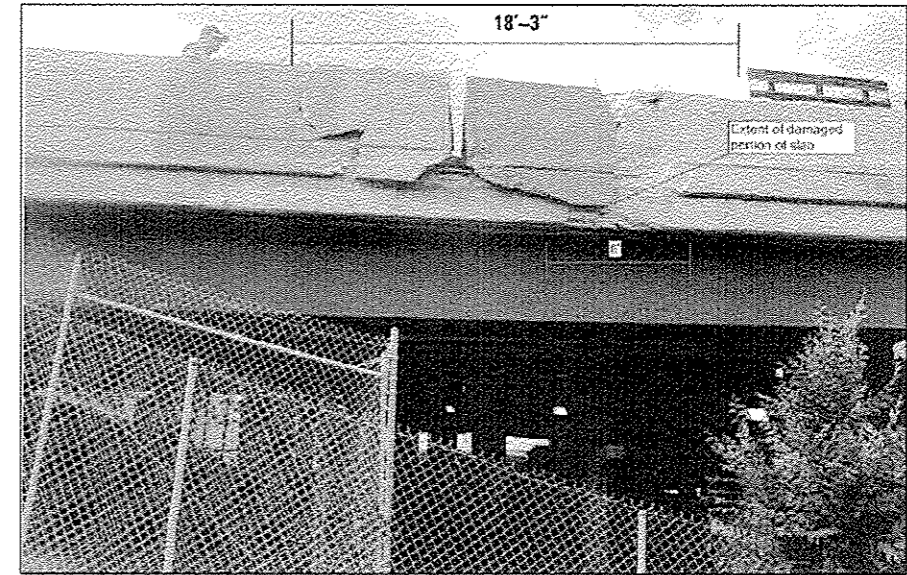
TRAFFIC DATA

I-90/94: 2013 ADT = 256300
SPEED LIMIT = 55 MPH

R 13 E



LOCATION 20:
I-90 /94 (KENNEDY EXPY) OVER
KIMBALL AVE. NORTH PARAPET.
WALL. FULL HEIGHT REPAIR AND
SLAB REPAIR. OUTBOUND LANES.
SN 016-1109

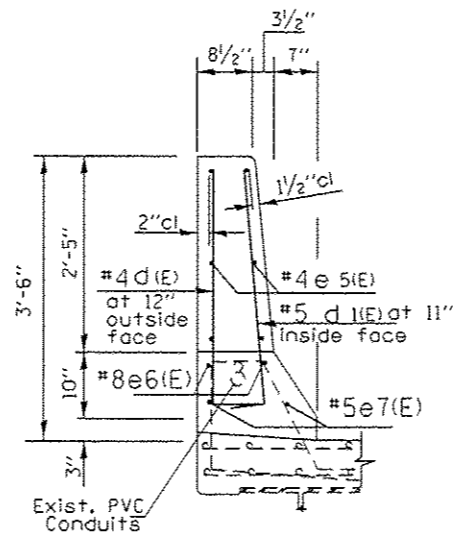
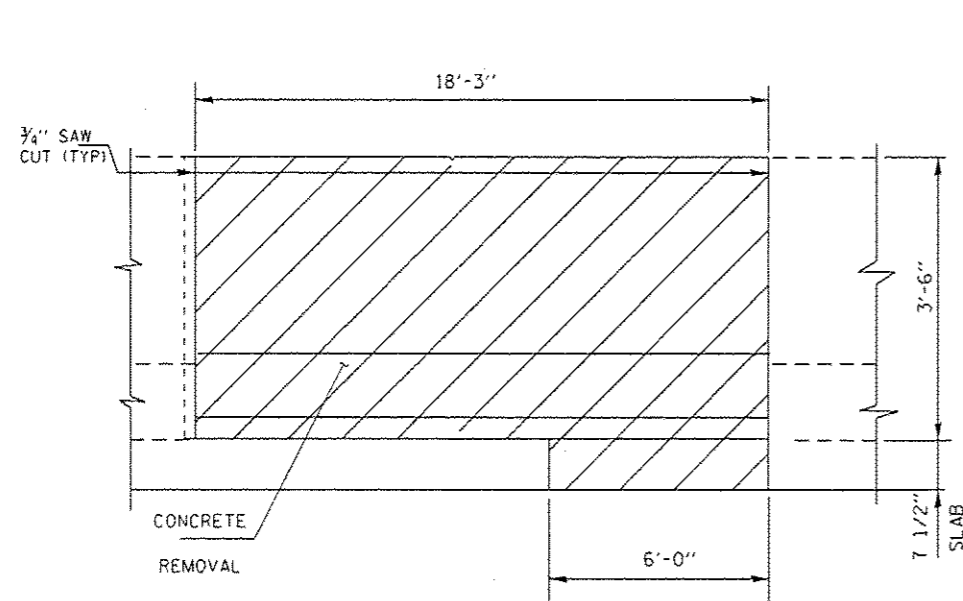


FULL DEPTH REPAIR
REPLACE 18'-3" OF BARRIER WALL
AND 6 FT REPAIR OF CONCRETE SLAB

CITY OF CHICAGO
JEFFERSON TOWNSHIP, COOK COUNTY

BILL OF MATERIALS

BAR	SIZE	SHAPE	QUANTITY
e ₅ (E)	#4	18'-0"	6
e ₆ (E)	#8	18'-0"	2
e ₇ (E)	#5	18'-0"	2
d(E)	#4	3'-8"	19
d ₁ (E)	#5	3'-8"	21
REINFORCEMENT BARS EPOXY COATED			LBS 333
CONCRETE SUPERSTRUCTURE			CU. YDS 2.8
CONCRETE REMOVAL			CU. YDS 2.8
PROTECTIVE COAT			SQ. YDS 10.5
SAW CUT			FOOT 7
MECHANICAL SPLICERS			EACH 20



SECTION THRU PARAPET

TRAFFIC DATA

I-90/94: 2013 ADT = 256300
SPEED LIMIT = 55 MPH

"e" BARS SHALL BE CUT IN FIELD AS NEEDED.

SN 016-0120

Prop. F.A. Route 90/94 and Reversible Lanes

Prop. N.W. Bound Lanes

SN 016-1109

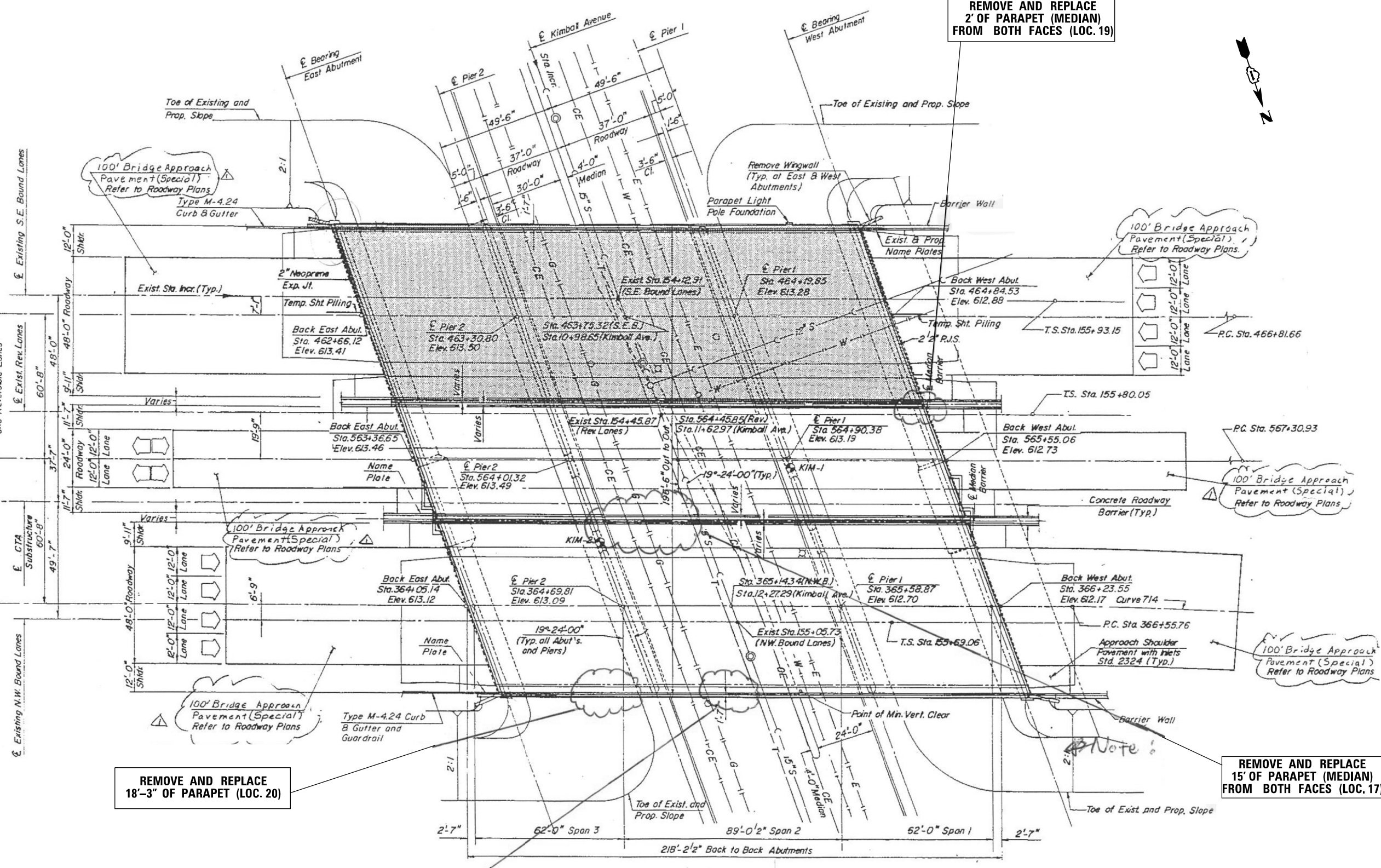
Existing N.W. Bound Lanes

CTA Substructure

Existing Rev. Lanes

Existing S.E. Bound Lanes

Proposed S.E. Bound Lanes



REMOVE AND REPLACE 18-3" OF PARAPET (LOC. 20)

REMOVE AND REPLACE 2' OF PARAPET (MEDIAN) FROM BOTH FACES (LOC. 19)

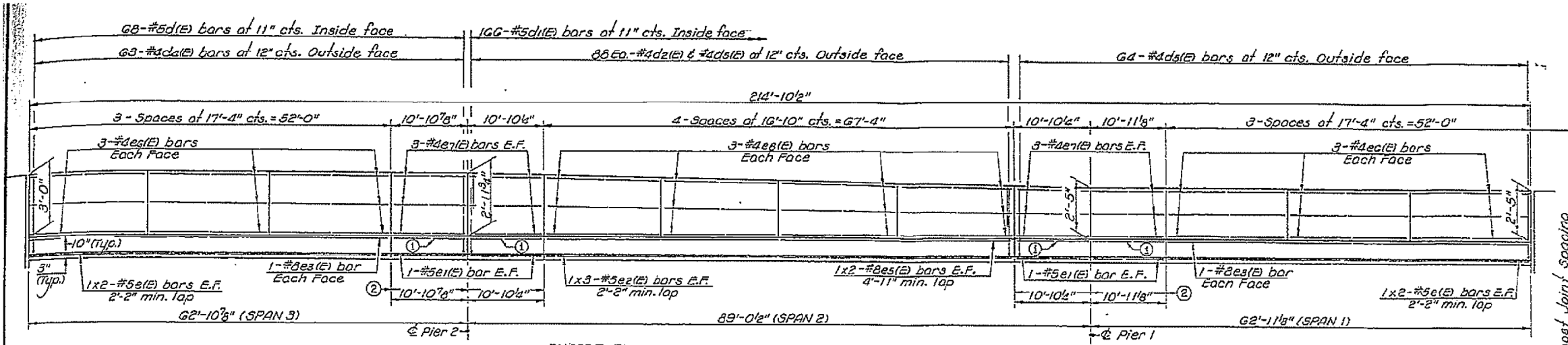
REMOVE AND REPLACE 15' OF PARAPET (MEDIAN) FROM BOTH FACES (LOC. 17)

REMOVE AND REPLACE 15' OF PARAPET (LOC. 18)

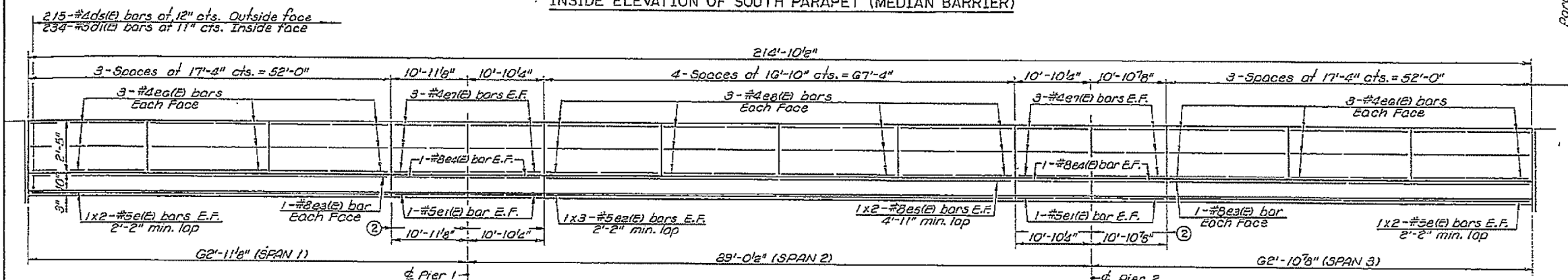
PLAN

FOR INFORMATION ONLY

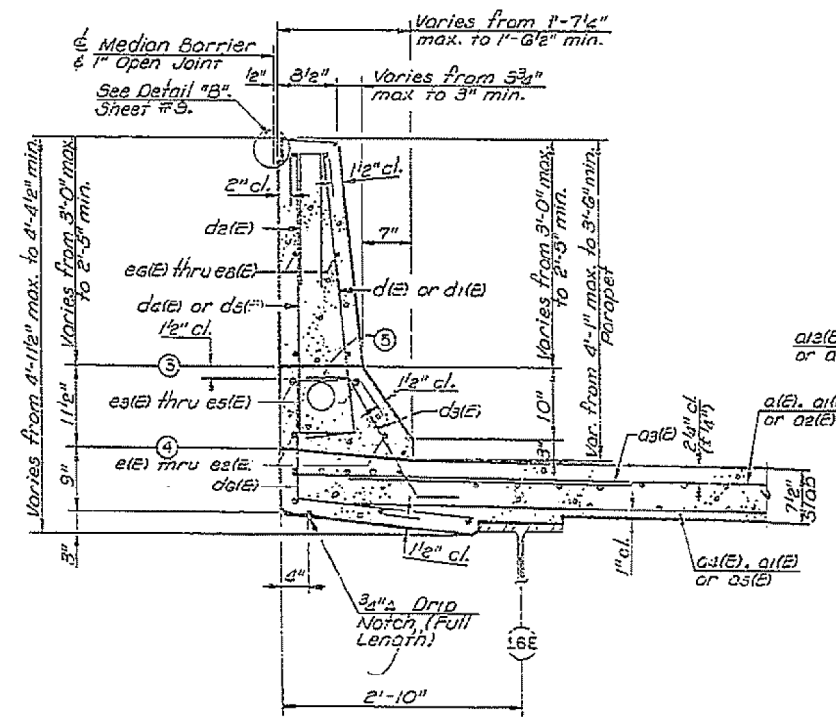
FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 17, 18, 19 & 20. I-90 /94 (KENNEDY EXPY). SN 016-1109 & 016-0120. PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	112715-shr-plan.dgn	DRAWN -	REVISED -			VAR.	2014-801	VARIOUS	26		
	PLOT SCALE = 100.0005' / 1"	CHECKED -	REVISED -			CONTRACT NO. 62A29					
	PLOT DATE = 2/5/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



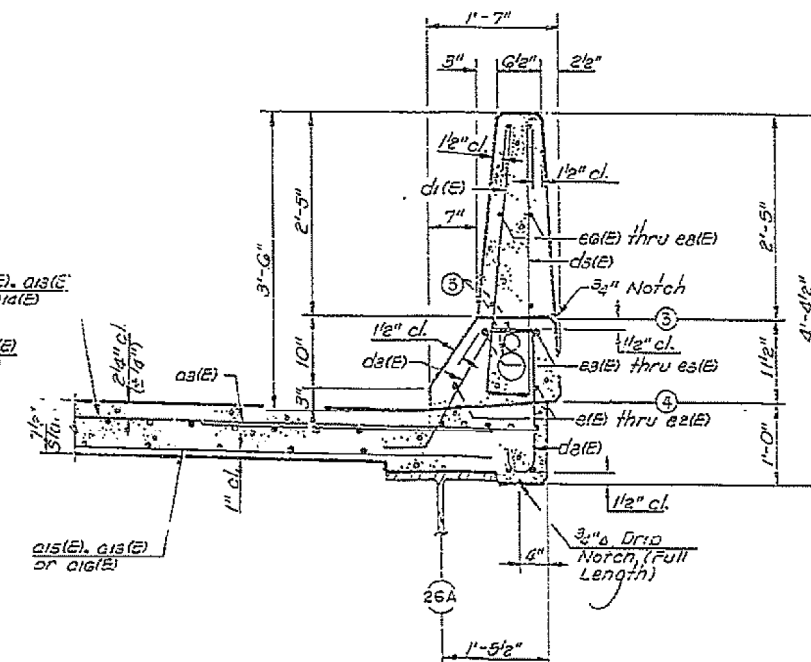
INSIDE ELEVATION OF SOUTH PARAPET (MEDIAN BARRIER)



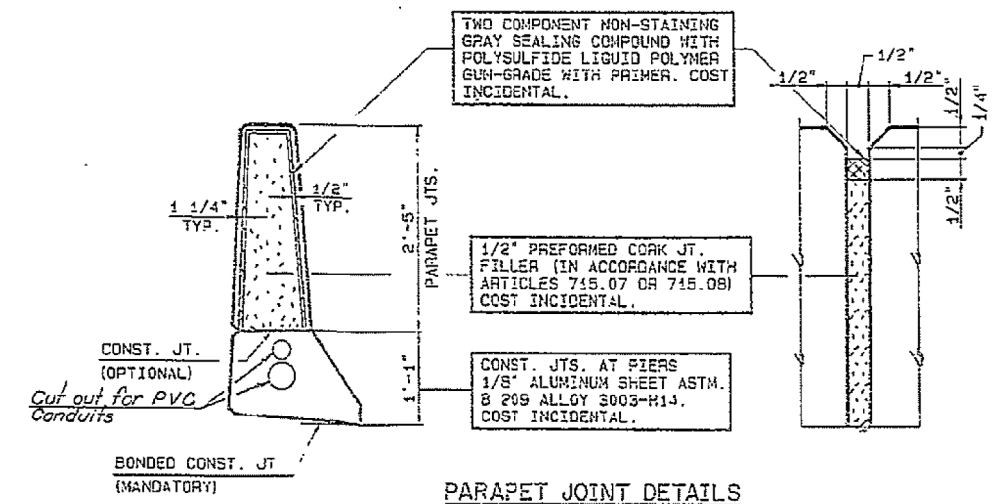
INSIDE ELEVATION OF NORTH PARAPET



SECTION THRU SOUTH PARAPET (MEDIAN BARRIER)



SECTION THRU NORTH PARAPET



PARAPET JOINT DETAILS

FOR INFORMATION ONLY

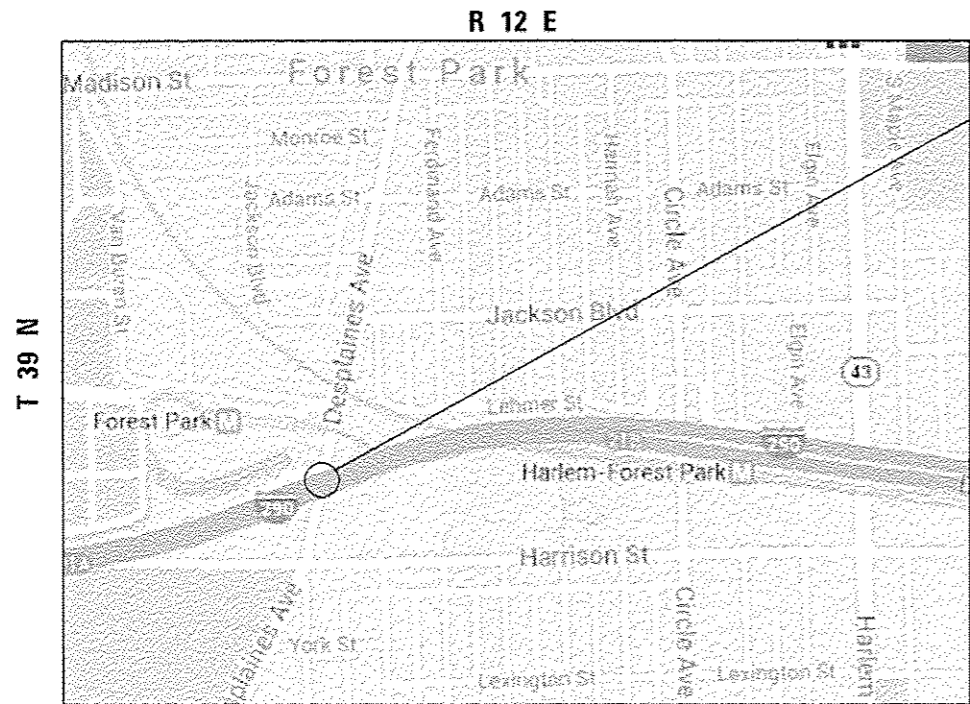
FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/5/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

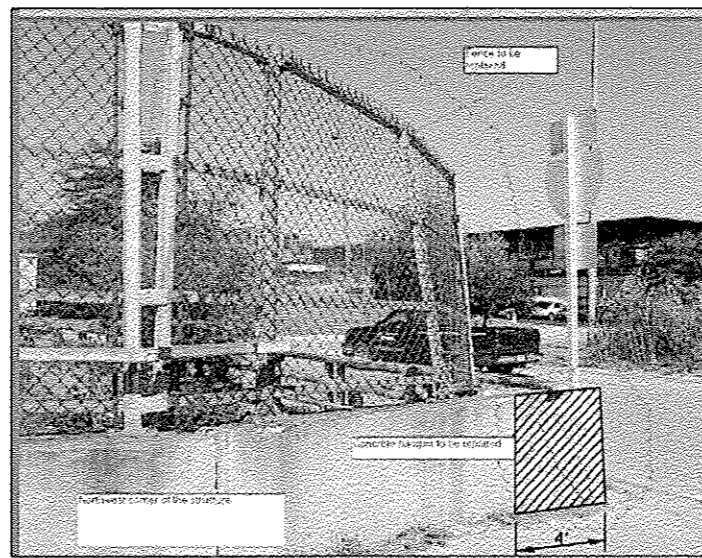
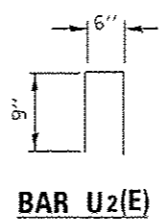
LOCATIONS 17, 18, 19 & 20. I-90 /94 (KENNEDY EXPY)
OUTBOUND LANES SN 016-1109. PARAPET DETAILS.

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-801	VARIOUS	50	27
				CONTRACT NO. 62A29
ILLINOIS FED. AID PROJECT				



LOCATION 21:
DES PLAINES AVE
OVER I-290.
SN 016-0706
NW CORNER.
4 FT LONG PARAPET



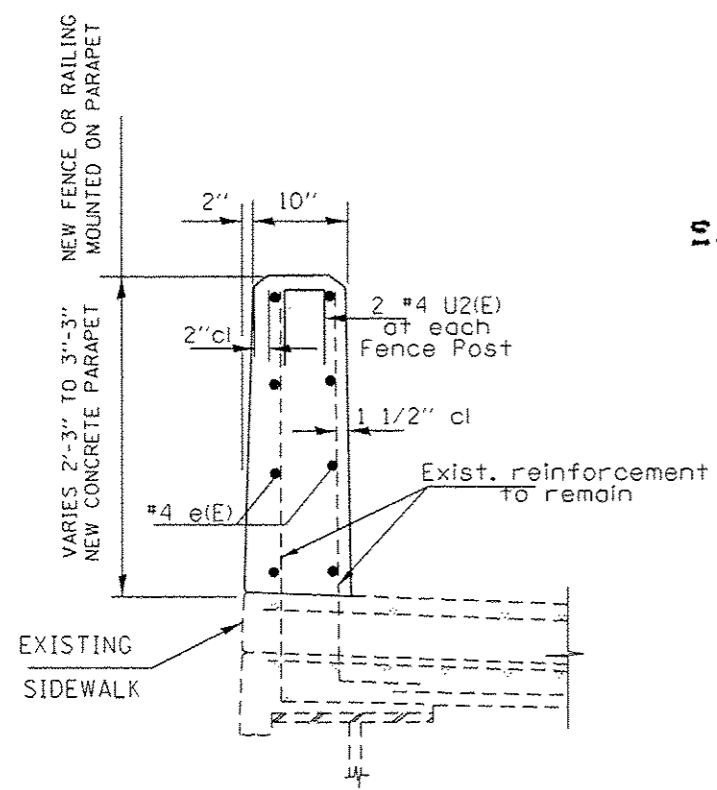
FULL DEPTH REPAIR
REPLACE 4 FT OF PARAPET WALL AND APPR. 14 FT OF FENCE

VILLAGE OF FOREST PARK
PROVISO TOWNSHIP, COOK COUNTY

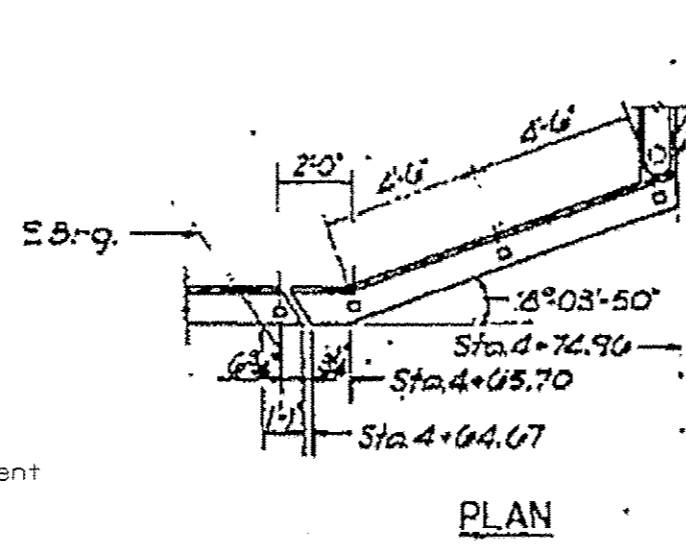
BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY
e (E)	#4	3'-9"	—	8
U 2(E)	#4	2'-0"	□	4
REINFORCEMENT BARS EPOXY COATED				LBS 26
CONCRETE SUPERSTRUCTURE				CU. YDS 0.45
CONCRETE REMOVAL				CU. YDS 0.45
PROTECTIVE COAT				SQ. YDS 4.5
SAW CUT				FOOT 3.5
MECHANICAL SPLICERS				EACH 8
BRIDGE FENCE RAILING				FOOT 14

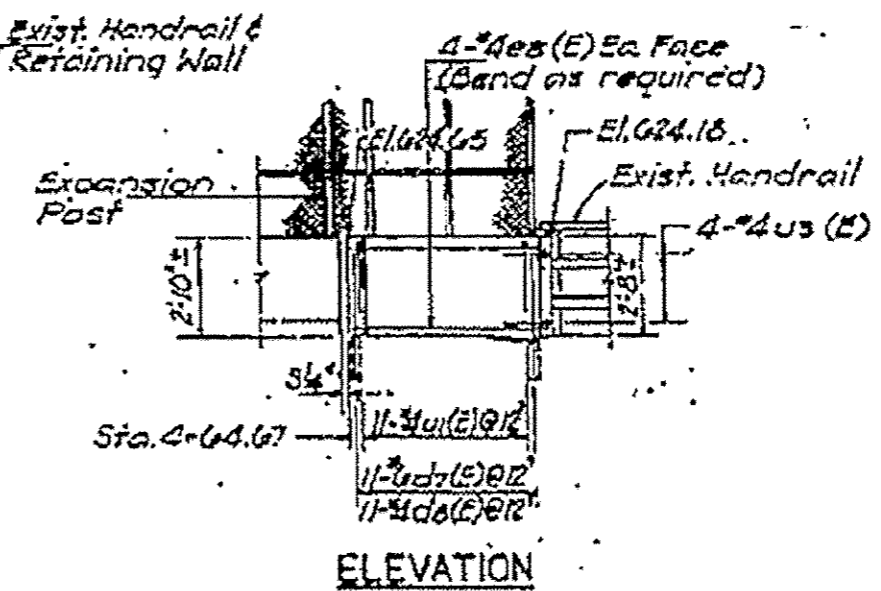
COST OF BRIDGE FENCE RAILING REMOVAL IS INCLUDED IN THE COST OF "BRIDGE FENCE RAILING".



TYPICAL PARAPET SECTION
 (FOR MORE DETAILS SEE SHEET #8)



PLAN



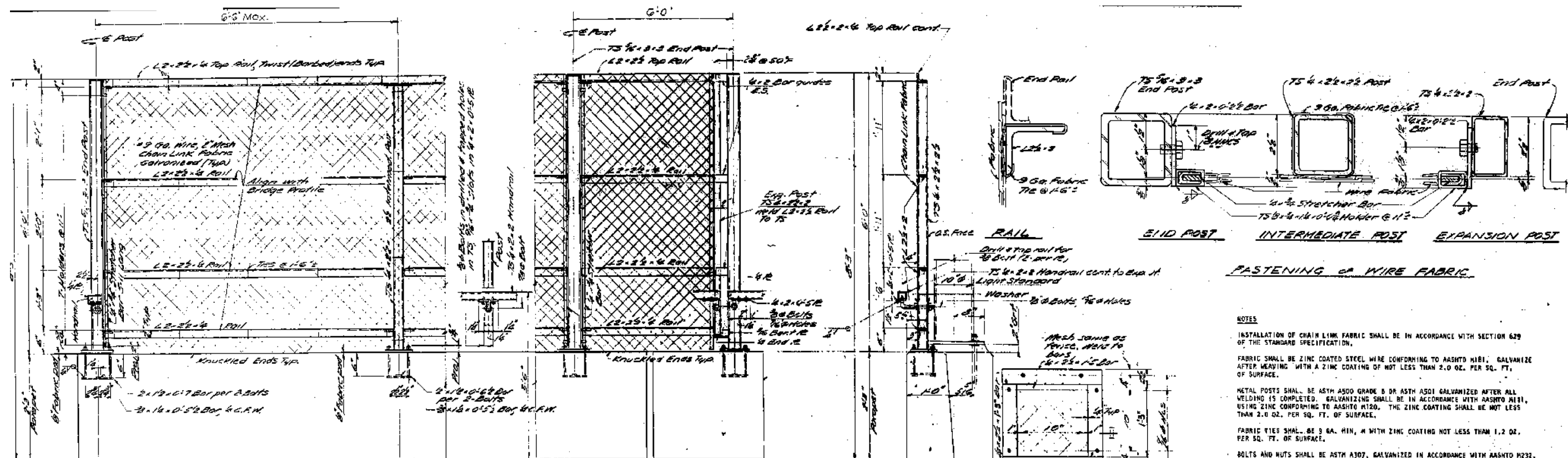
ELEVATION

NORTHWEST EXTENSION
FOR INFORMATION ONLY

TRAFFIC DATA

I-290: 2013 ADT = 179200
 SPEED LIMIT = 55 MPH
 DES PLAINES AVE: 2010 ADT = 12900
 SPEED LIMIT = 30 MPH

FILE NAME:	USER NAME: Gorangautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 21 (SN 016-0706) DES PLAINES AVE OVER I-290 (EISENHOWER ESPY)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or:\pwork\p\stdot\gorangautab\d0418048\112715-shr-plan.dgn	DRAWN -	REVISED -	VAR.			2014-801	VARIOUS	50	29	
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 62A29		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/12/2015	DATE -	REVISED -			SCALE:	SHEET 1 OF 2 SHEETS	STA. TO STA.		



NOTES

INSTALLATION OF CHAIN LINK FABRIC SHALL BE IN ACCORDANCE WITH SECTION 629 OF THE STANDARD SPECIFICATION.

FABRIC SHALL BE ZINC COATED STEEL WIRE CONFORMING TO AASHTO M181, GALVANIZE AFTER WEAVING WITH A ZINC COATING OF NOT LESS THAN 2.0 OZ. PER SQ. FT. OF SURFACE.

METAL POSTS SHALL BE ASTM A500 GRADE B OR ASTM A501 GALVANIZED AFTER ALL WELDING IS COMPLETED. GALVANIZING SHALL BE IN ACCORDANCE WITH AASHTO M181, USING ZINC CONFORMING TO AASHTO M120. THE ZINC COATING SHALL BE NOT LESS THAN 2.0 OZ. PER SQ. FT. OF SURFACE.

FABRIC TIES SHALL BE 9 GA. M18 WITH ZINC COATING NOT LESS THAN 1.2 OZ. PER SQ. FT. OF SURFACE.

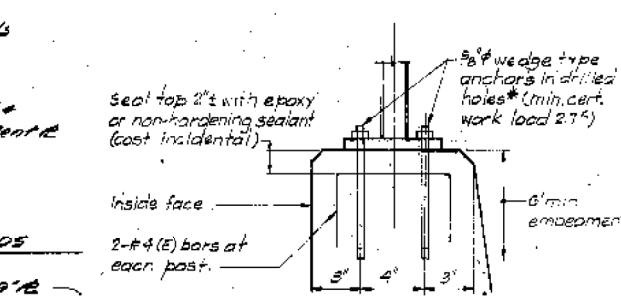
BOLTS AND NUTS SHALL BE ASTM A307, GALVANIZED IN ACCORDANCE WITH AASHTO M292.

PLATES AND ANGLES SHALL BE STEEL CONFORMING TO AASHTO M183 AND GALVANIZED AS SPECIFIED FOR POSTS. GALVANIZING SHALL BE DONE AFTER ALL FABRICATION IS COMPLETED.

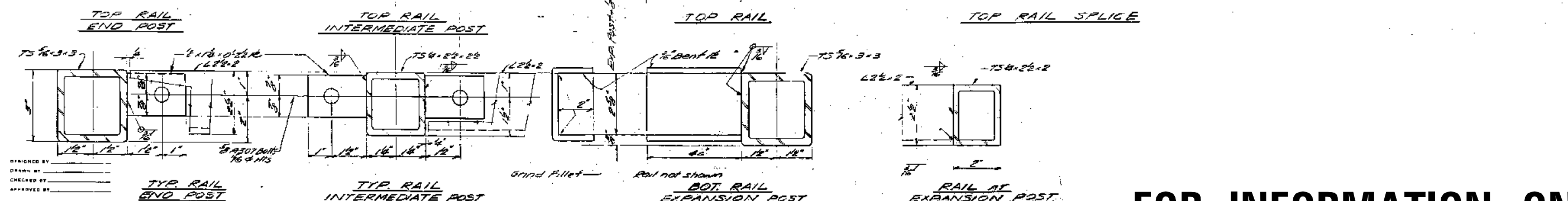
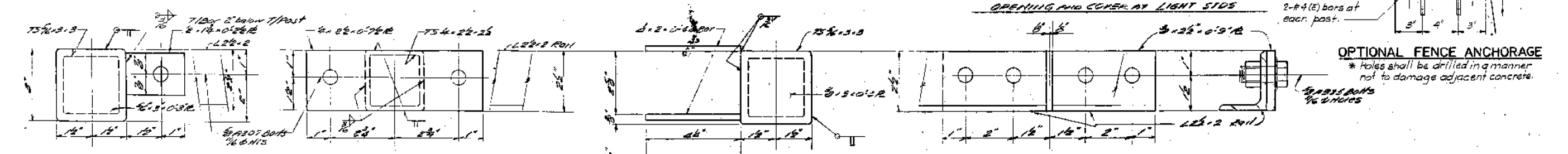
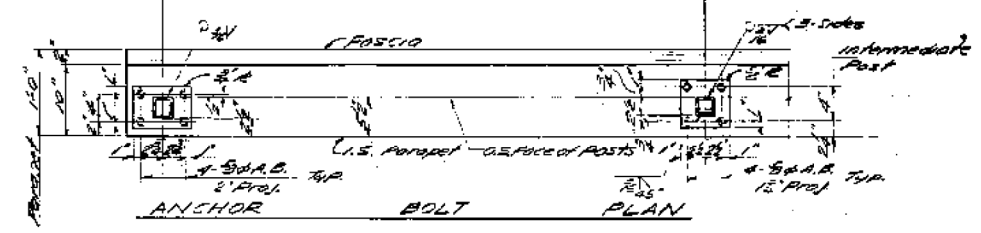
ELEVATION - TYPICAL

ELEVATION - EXPANSION

SECTION A-A



OPTIONAL FENCE ANCHORAGE
* Holes shall be drilled in a manner not to damage adjacent concrete.



FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 21. (SN 016-0706). DES PLAINES AVE OVER I-290. BRIDGE FENCE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Drawn by	0112715-shr-plen.dgn	DRAWN -	REVISED -			VAR.	2014-801	VARIOUS	50	30	
Checked by	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62A29					
Approved by	PLOT DATE = 2/5/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 2 OF 2 SHEETS		STA.	TO STA.		

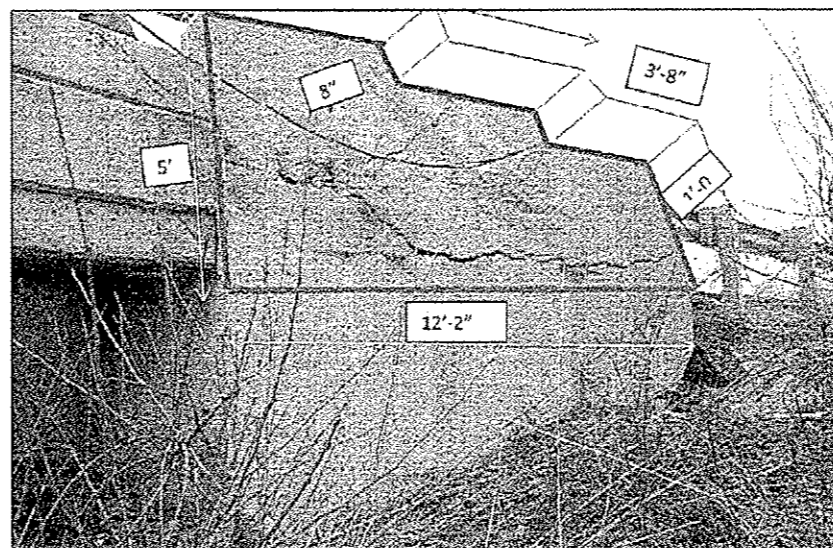
R 10 E

T 35 N

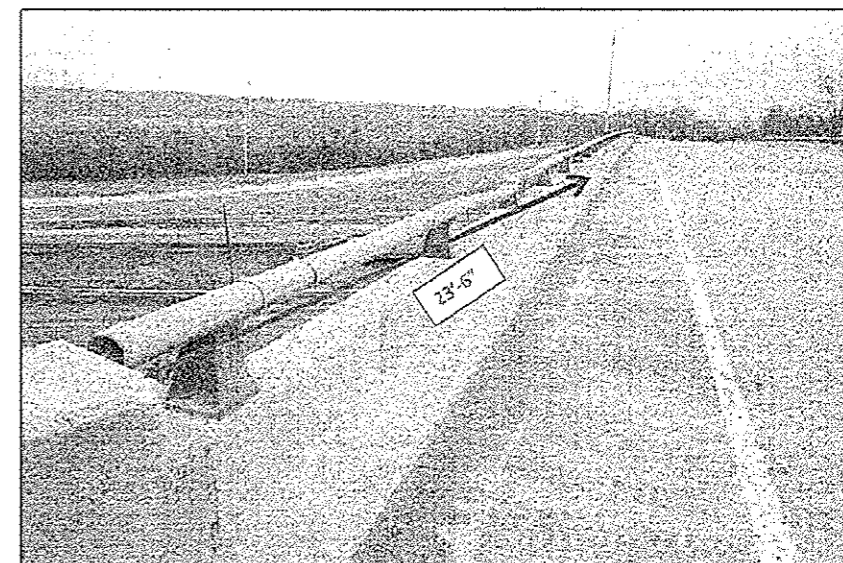


CITY OF JOLIET
JOLIET TOWNSHIP, WILL COUNTY

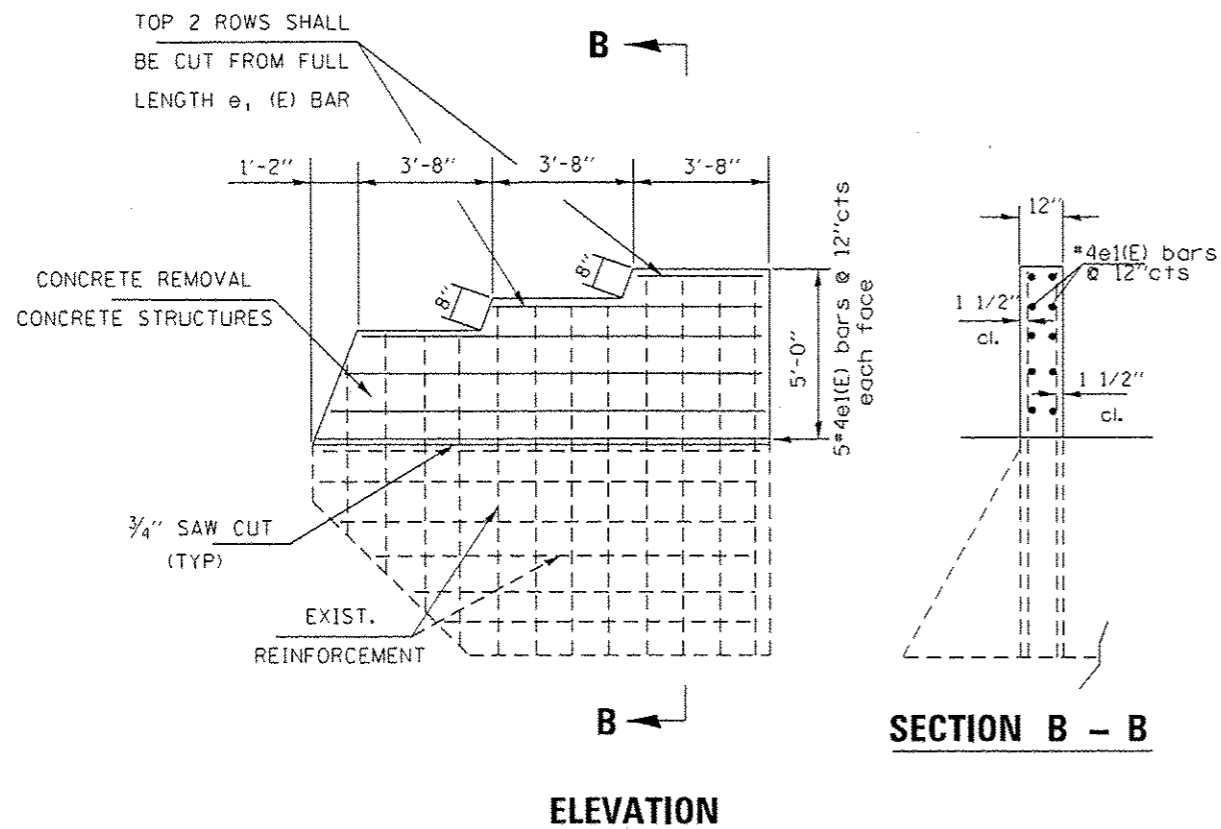
LOCATION 22:
CENTER ST NB OVER I-80
SN 099-0188, NORTH
ABUTMENT, RIGHT SIDE.



REMOVE AND REPLACE
PART OF WINGWALL AT NORTH ABUTMENT.



REMOVE AND REPLACE 24 FT OF RAILING
(PAID UNDER "REMOVING AND REERECTING EXISTING RAILING")



NOTES:

" ϕ 1(E)" BARS SHALL BE CUT IN FIELD TO FIT EXISTING SHAPE AND CLEARANCE.

DISCONNECT AND RECONNECT EXISTING GUARDRAIL COST INCLUDED IN THE COST OF "CONCRETE STRUCTURES"

COST OF REMOVAL AND REPLACEMENT OF EXISTING SHIELDING INCLUDED IN THE COST OF "PROTECTIVE SHIELD (PERMANENT)". FOR LOCATION SEE SHT. 6 OF 6.

THE DEBRIS SHALL BE REMOVED FROM THE NORTH ABUTMENT SLOPE WALL.

TRAFFIC DATA

I-80: 2013 ADT = 82600
SPEED LIMIT = 45 MPH

CENTER ST: 2012 ADT = 3800
SPEED LIMIT = 35 MPH

BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY
ϕ 1(E)	#4	11'-9"	—	8
REINFORCEMENT BARS EPOXY COATED				LBS 63.0
SAW CUT				FOOT 17'-2"
CONCRETE STRUCTURES				CU. YDS 2.0
CONCRETE REMOVAL				CU. YDS 2.0
DEBRIS REMOVAL				CU. YDS 8
REMOVING AND REERECTING EXISTING RAILING				FOOT 24
PROTECTIVE SHIELD (PERMANENT)				SQ. YDS 81

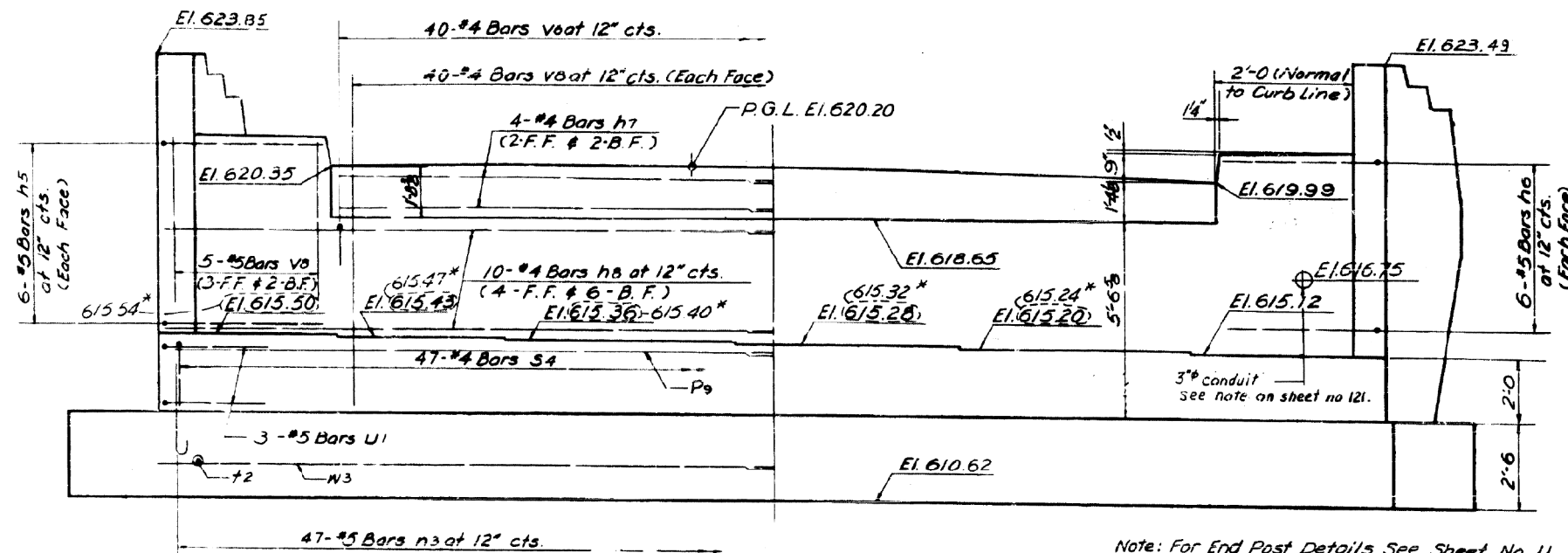
FILE NAME =	USER NAME = gorenautab	DESIGNED -	REVISED -
en:\p\work\p\dot\gorenautab\0410540\112713-shl-plan.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/13/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

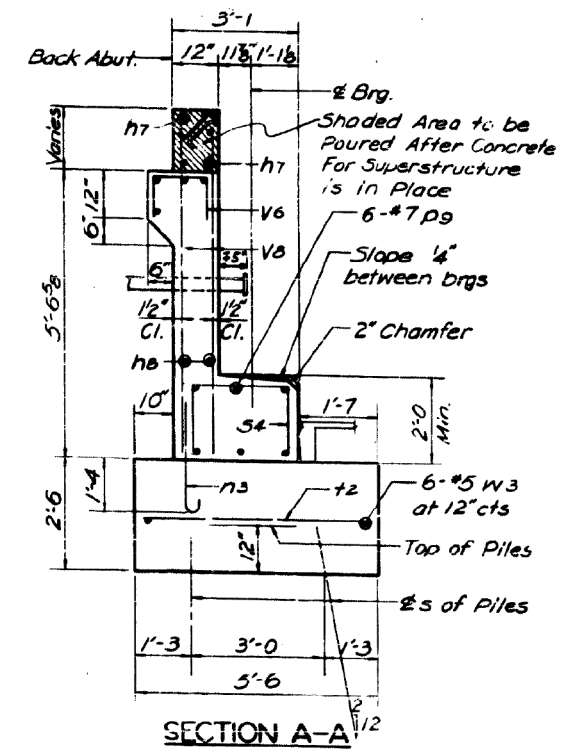
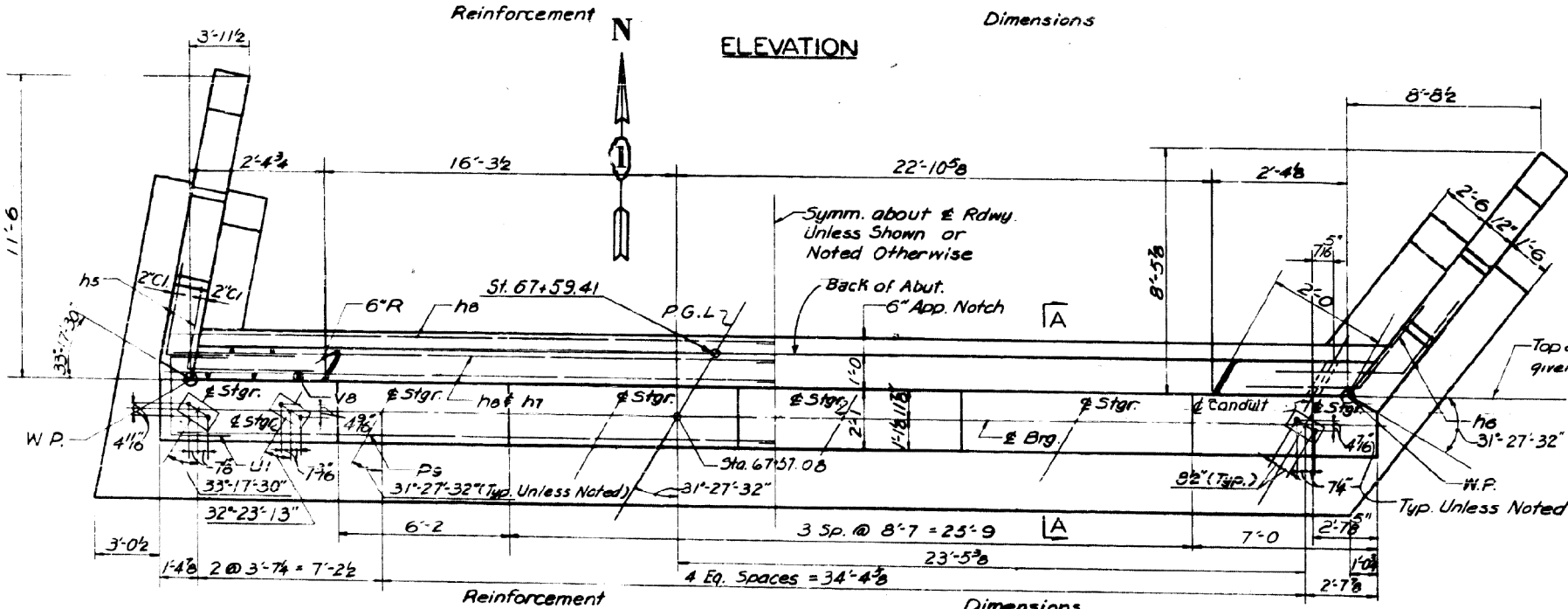
LOCATION 22 (WINGWALL SN 099-0188)
CENTER ST OVER I-80.

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-801	VARIOUS	90	31
			CONTRACT NO. 62A29	
ILLINOIS FED. AID PROJECT				



Note: For End Post Details See Sheet No. 11



BILL OF REINFORCEMENT

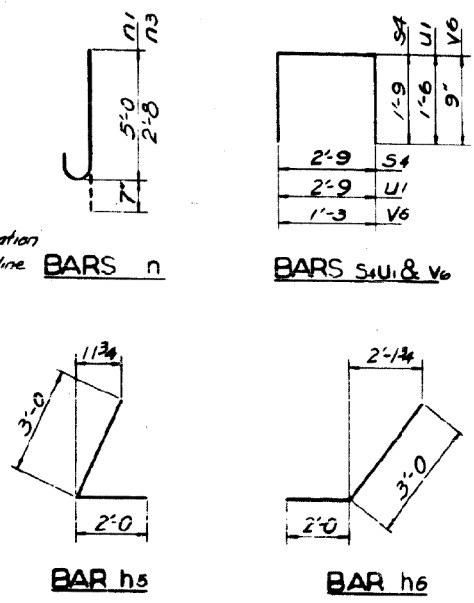
Bar No.	Size	Length	Shape
hs	12	5	3'-0
h6	12	5	5'-0
h7	8	4	19'-11
h8	20	4	23'-2
n1	28	5	5'-7
n3	47	5	3'-3
P9	12	7	23'-5
S4	47	4	6'-3
t1	17	5	4'-6
t2	47	5	5'-0
U1	6	5	5'-9
V6	40	4	2'-9
V8	90	4	6'-7
W1	10	5	10'-4
W3	12	5	24'-1

BILL OF MATERIAL

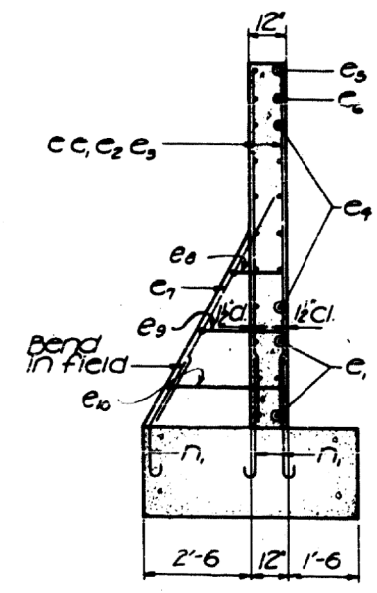
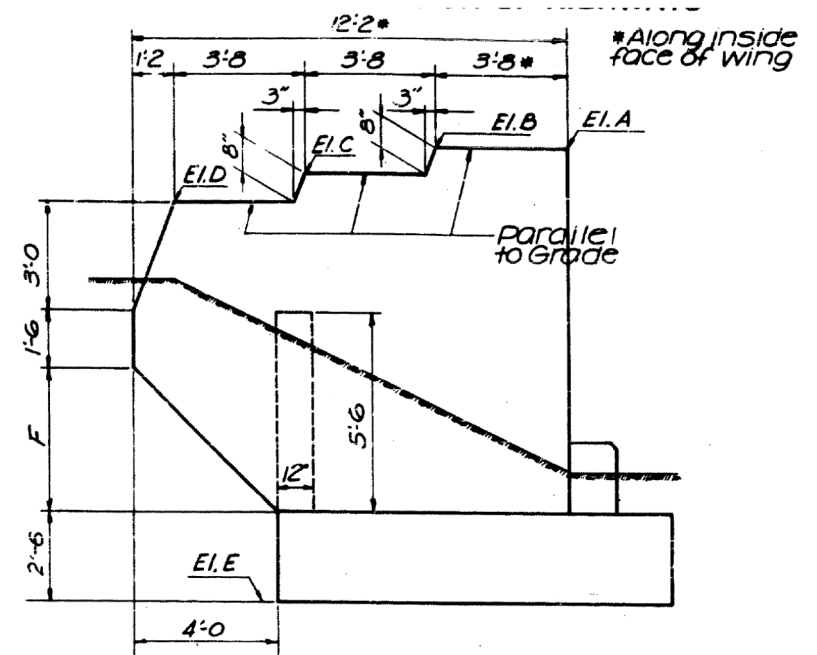
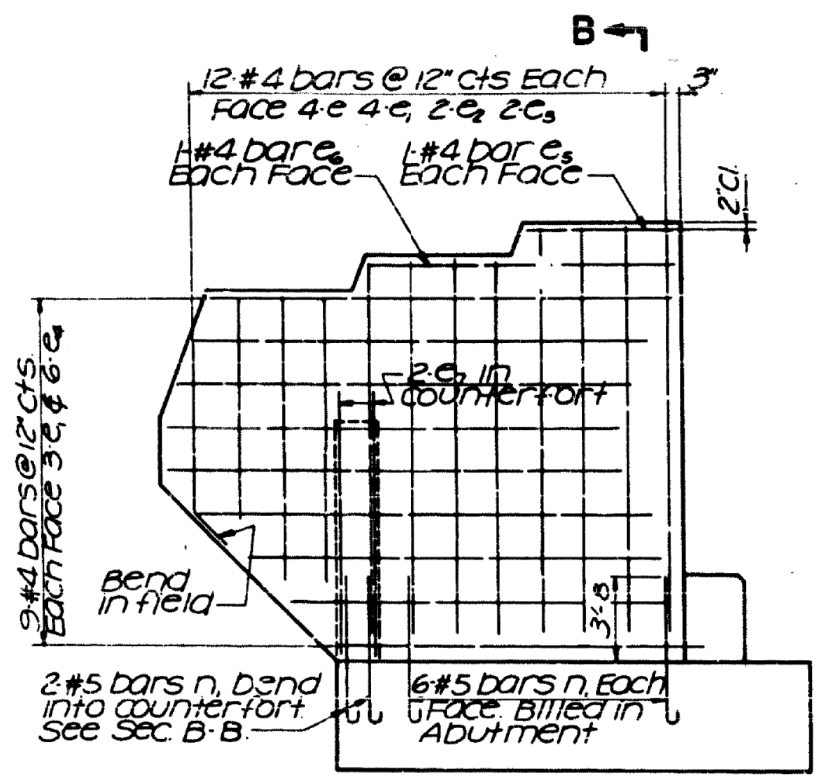
Item	Unit	Quan.
Class X Concrete	Cu. Yds	60.5
Reinforcement Bars	LBS	3440
Steel Piles (10BP42)	Ln. Ft.	266
Test Pile (St. 10BP42)	Each	1

Note: Bill of Material includes Reinforcement and Class X Concrete for End Posts.

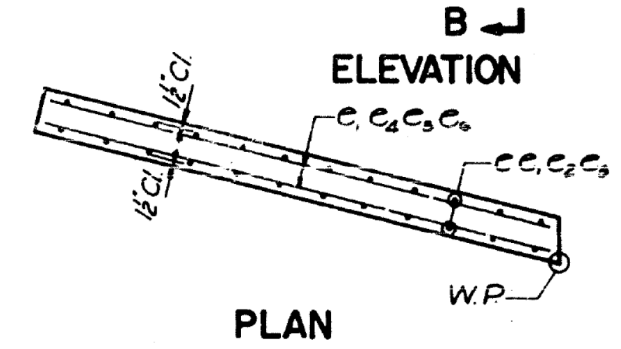
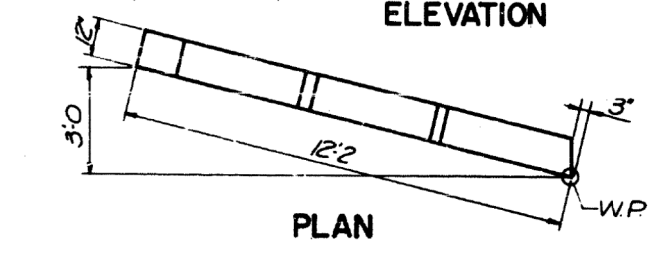
For All Steel Piles Encasement Details See Sheet No. 121.



FOR INFORMATION ONLY



Note: See Abut. Dwg. for Fig. Reinforcement.

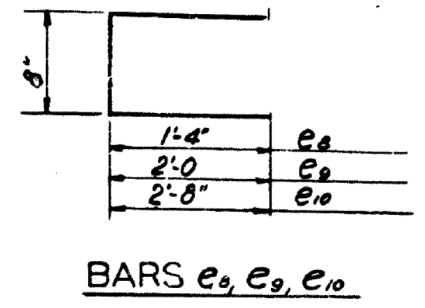


ONE END POST
BILL OF MATERIAL

Bar No.	Size	Lgth	Shape
e	#4	9.3	—
e ₁	#4	8.6	—
e ₂	#4	6.6	—
e ₃	#4	5.0	—
e ₄	#4	10.6	—
e ₅	#4	3.6	—
e ₆	#4	7.0	—
e ₇	#5	7.0	—
e ₈	#4	3.2	U
e ₉	#4	4.6	U
e ₁₀	#4	5.10	U
* Reinforcement bars			lbs 280
* Class X Concrete			
South Abut. 2 Posts Cu. Yds.			8.8
North Abut. 2 Posts Cu. Yds.			8.7

END POST ELEVATIONS

End Post Elev.	S. Abut.		N. Abut.	
	S. W.	S. E.	N. W.	N. E.
A	619.69	620.94	623.85	623.49
B	619.57	620.87	623.85	623.48
C	618.80	620.02	623.18	622.81
D	618.04	619.39	622.51	622.13
E	606.70	606.70	610.50	610.50
F	4'-4 1/2"	5'-8 1/4"	5'-0 1/2"	4'-7 5/8"



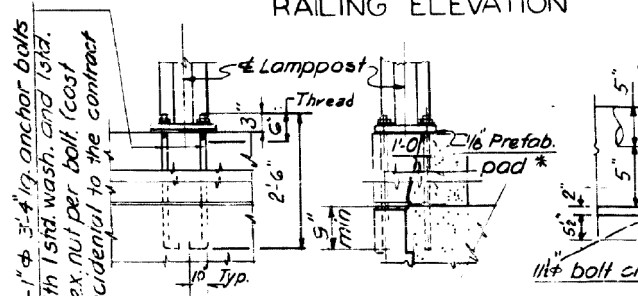
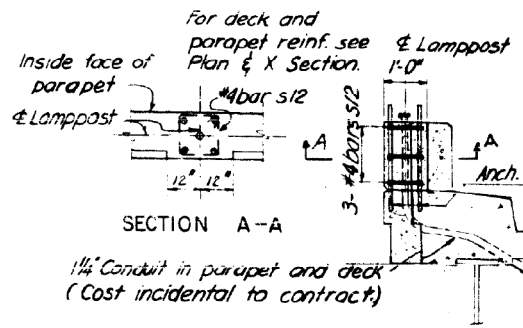
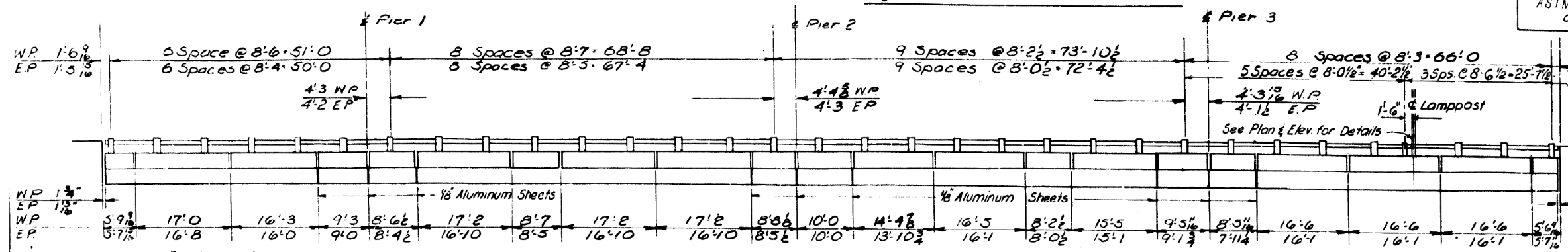
*Included in Quantity on Sheets 9 and 10

FOR INFORMATION ONLY

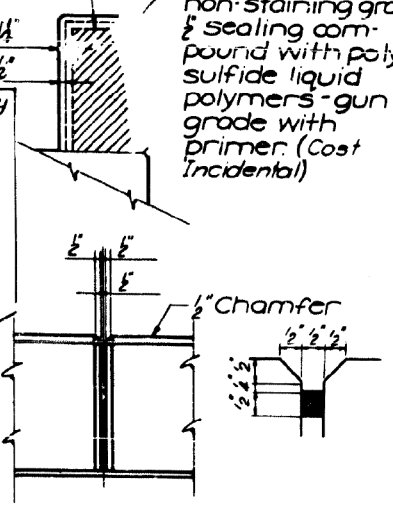
Use this sheet for rail post, joint spacing and lamppost details only. For all other details see sheet no 117A.

1/2" preformed cork asphalt joint filler (meets qualifications for ASTM Designation D1751) cost incidental.

Two component non-staining gray & sealing compound with polysulfide liquid polymers - gun grade with primer. (Cost Incidental)



PARAPET JOINT DETAILS



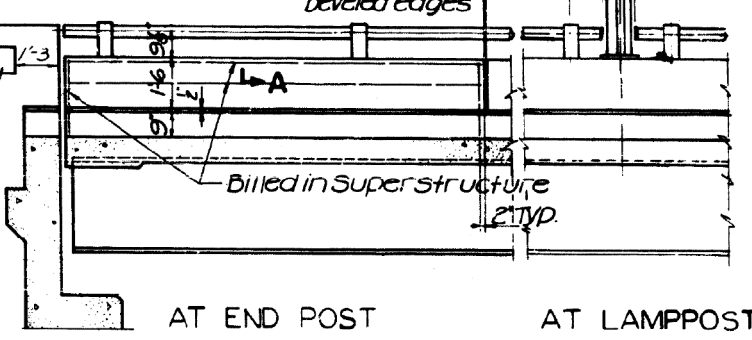
Note Dimensions given are measured along the inside face of the parapet
W.P. - West parapet
E.P. - East parapet

SECTION THRU PARAPET

For details and location of lamppost see Sheet No. 5

CAST END CAP

Drive fit type 6 Required incidental to item Aluminum Handrail.



BILL OF MATERIAL

Item	UNIT	QUANTITY
Alum. Handrail	Lin. Ft.	52.0

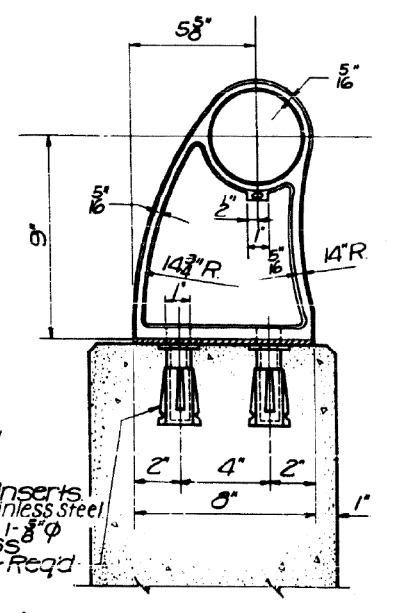
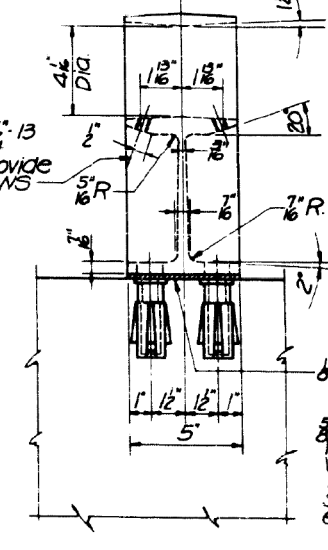
SEC THRU CURB

NOTES

All Posts shall be placed normal to parapet.
All posts shall conform to ASTM Specification B108 alloy 56-708-T6.
All rail tubing shall conform to ASTM Specification B235 alloy 6061-T6.

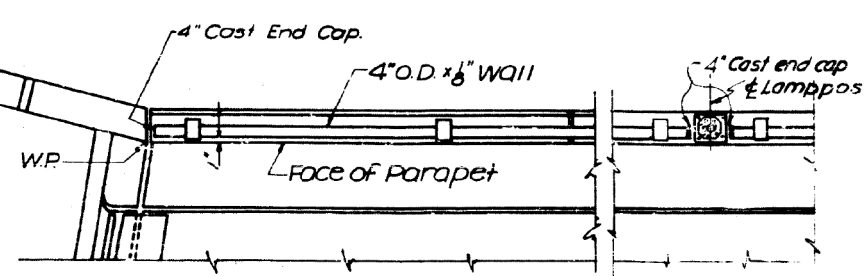
Rail tubing may be cut to a maximum of 3 panel lengths.
Set screws shall be of Aluminum conforming to ASTM Specification B211 Alloy 2024-T4.

The contract unit price per lineal foot for Aluminum Handrail shall include the furnishing, fabrication, transportation and erection of all material.

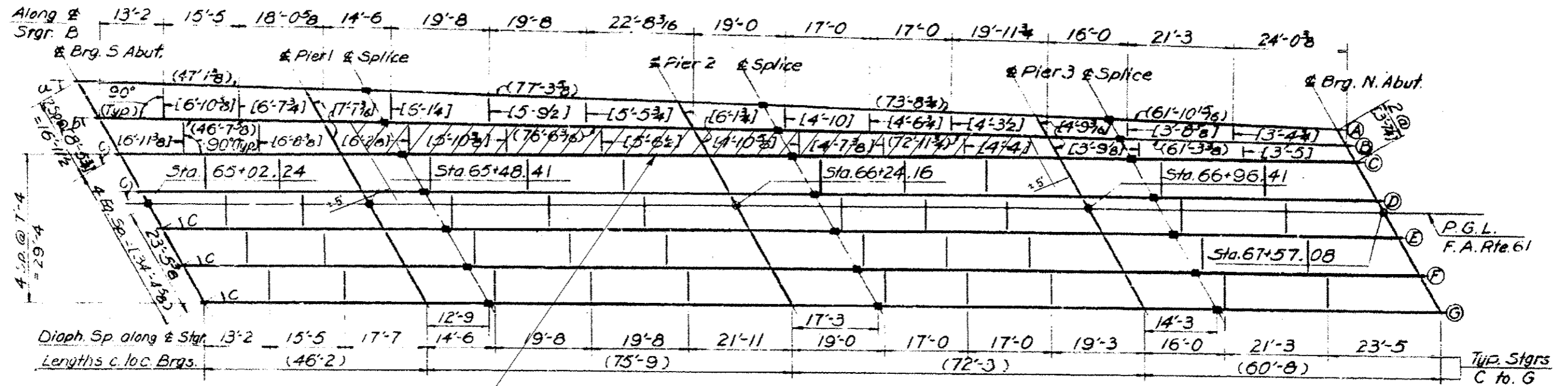


RAIL POST DETAILS

* For each post provide 1/2" prefabricated pad. See Article 54.9(f) of the Standard Specifications for Material. Cost to be incidental to the contract.



FOR INFORMATION ONLY



FRAMING PLAN

HATCHED AREA INDICATES REMOVAL AND REPLACEMENT OF PROTECTIVE SHIELDING

NOTE:

COST OF REMOVAL AND REPLACEMENT OF EXISTING SHIELDING INCLUDED IN THE COST OF "PROTECTIVE SHIELD (PERMANENT)".

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 22 (SN 099-0188) CENTER ST OVER I-80. FRAMING PLAN.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pe\work\p\dot\gorengautab\d0418648\0112715-shr-plan.dgn		DRAWN :	REVISED :			VAR.	2014-0801	VARIOUS	50	36	
Default	PLOT SCALE :	CHECKED :	REVISED :			CONTRACT NO. 62A29					
	PLOT DATE :	DATE :	REVISED :			ILLINOIS FED. AID PROJECT					

R 10 E

T 40 N



LOCATION 23:
US 20 OFF RAMP FROM
I-355 SB TO WB OF US 20
100 FT FROM INTERSECTION



VILLAGE OF BLOOMINGDALE
BLOOMINGDALE TOWNSHIP
DUPAGE COUNTY



WOOD WALL
REPLACE 24 FT X 10 FT OF NOISE WALL

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABUTMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	11
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	1.2
SEEDING CLASS 2A	ACRE	0.002

TRAFFIC DATA

I-355: 2014 ADT = 150000
SPEED LIMIT = 55 MPH
RAMP: 2008 ADT = 10200
SPEED LIMIT = 25 MPH

NOTE:

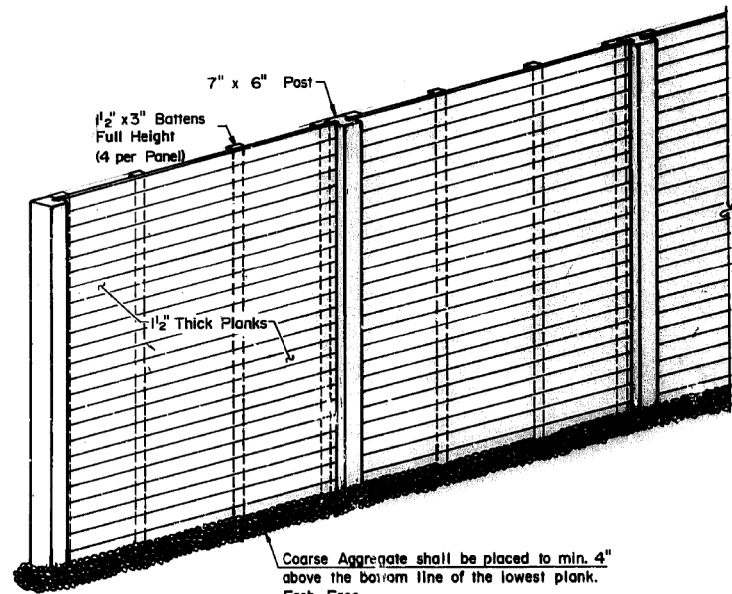
SEE SHEET # 2 FOR PANEL INFORMATION.

FILE NAME =	USER NAME = Gorengautob	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

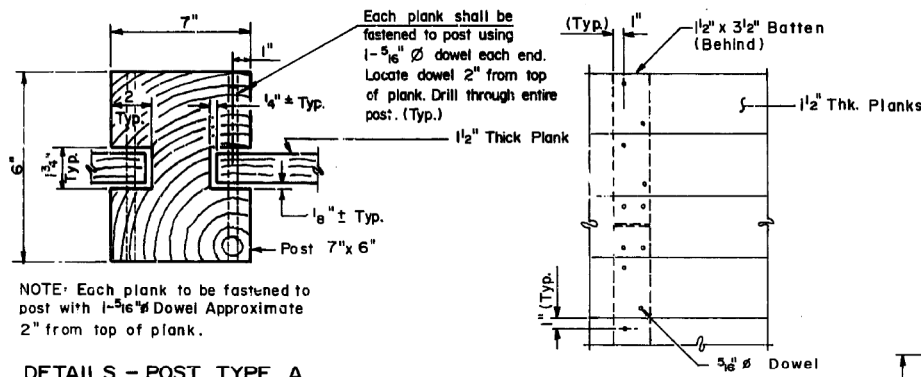
LOCATION 23 (NOISE WALL)
US 20 OFF RAMP FROM I-355 SB TO US 20 WB
 SCALE: SHEET **1** OF **2** SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2014-0801	VARIOUS	50	37
			CONTRACT NO. 62A29	
ILLINOIS FED. AID PROJECT				



Coarse Aggregate shall be placed to min. 4" above the bottom line of the lowest plank. Each Face.

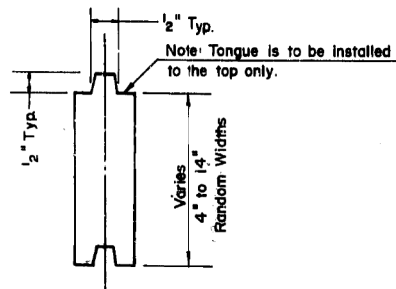
ISOMETRIC VIEW
Showing Roadway Face of Wall



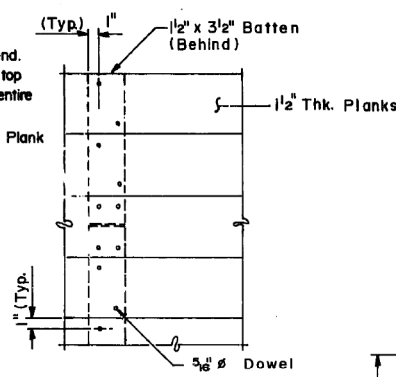
NOTE: Each plank to be fastened to post with 1-5/16\"/>

DETAILS - POST TYPE A

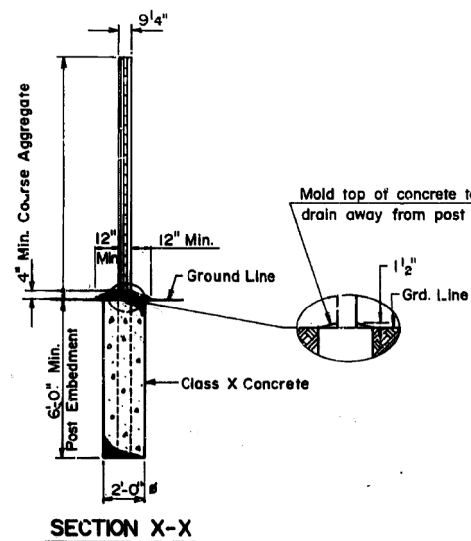
Omit one notch for End Post.
(18 Post Type A Required)
Post Type A shall be used for ground mounted Noise Wall only.



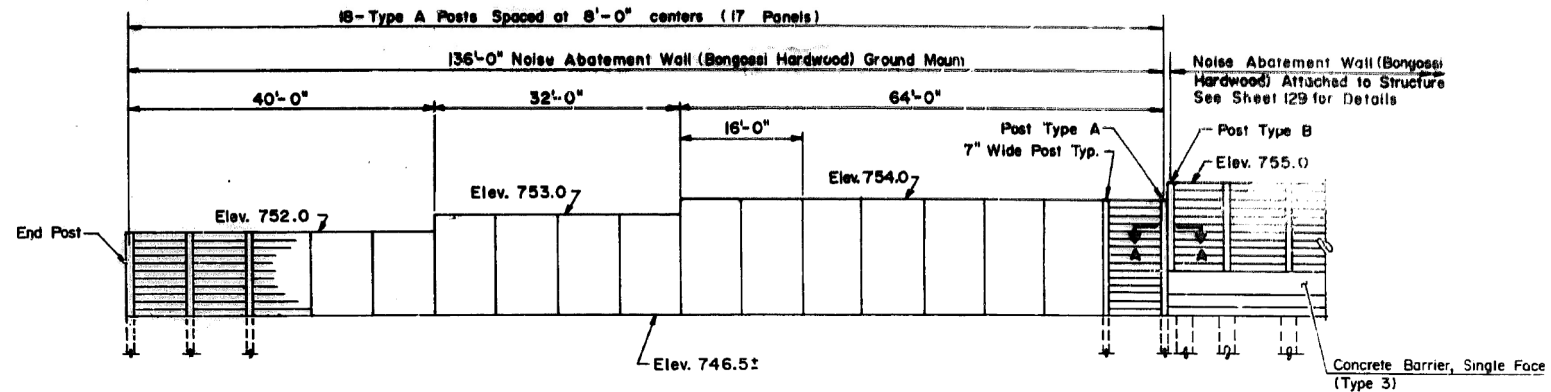
PLANK DETAIL



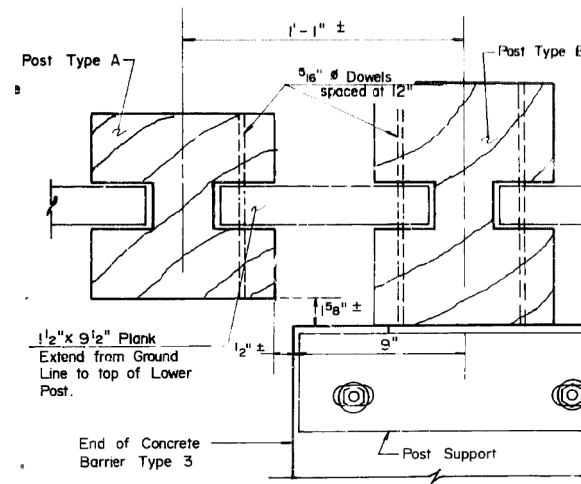
BATTEN DETAILS



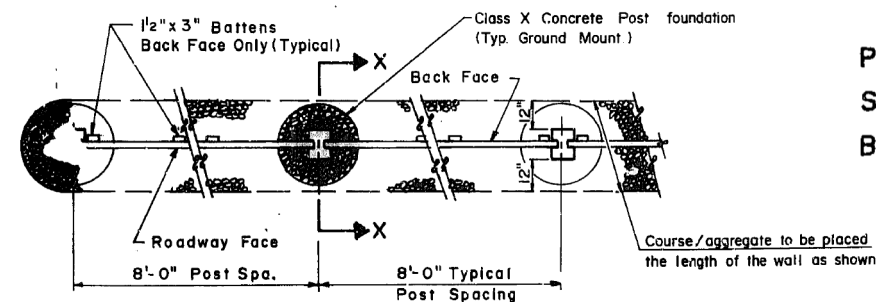
SECTION X-X



ELEVATION



SECTION A-A



PLAN

GENERAL NOTES

1. All metal, including dowels, nuts, bolts, washers, plates, and angles shall conform to Section 710 of the Std. Specification and shall be hot dipped galvanized in accordance with ASTM A153
2. Shop drawings shall be submitted in accordance with Article 105.03 of the Std. Specifications.
3. All wood dimensions are net, not nominal
4. Standard panel widths shall be 8'-0" Center to Center Posts
5. Posts shall be field-cut flush with the top of the top plank of the highest adjacent wall.
6. All dowels shall be ASTM A36 steel 5/16" ϕ and shall be driven in pilot holes 5/16" ϕ .

NOISE ABATEMENT WALL DESIGN CRITERIA

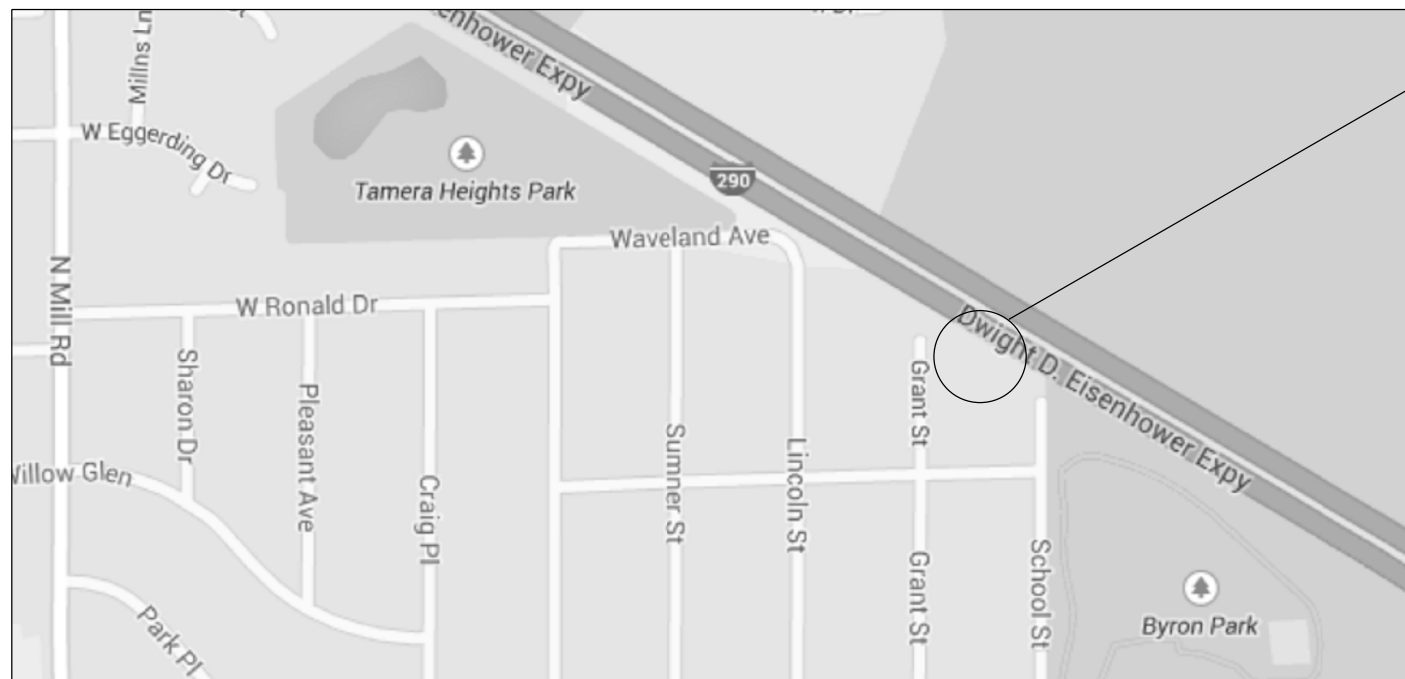
- Wind Load 35 psf
- Panel Posts Lophira Alata Hardwood (Bongossi Hardwood)
Fb 3630 psi
- Panel Battens & Planks... Dinizia Excelsa Hardwood (Bonolim Hardwood)
- Structural Steel A36
- Bolts, Nuts, Washers & Lag Screw... A307

FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 23 EXISTING ABATEMENT WALL GROUND MOUNTED	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	0112715-sh-t-plan.dgn	DRAWN -	REVISED -			VAR.	2014-0801	VARIOUS	50	38	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62A29					
	PLOT DATE = 2/10/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

R 11 E

T 40 N



LOCATION 24: I-290 EB
(EISENHOWER EXPY)
0.5 MI EAST OF MILL RD



VILLAGE OF ADDISON
ADDISON TOWNSHIP
DUPAGE COUNTY



WOOD WALL
REPLACE 13 FT X 20 FT OF MCHD

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABUTMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	6
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.65
SEEDING CLASS 2A	ACRE	0.001

TRAFFIC DATA

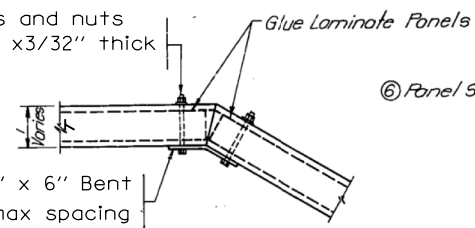
I-290: 2013 ADT = 131400
SPEED LIMIT = 55 MPH

NOTE:

SEE SHEET # 2 FOR PANEL INFORMATION.

* 1/2" o Bolt's and nuts with 2" OD x3/32" thick washer

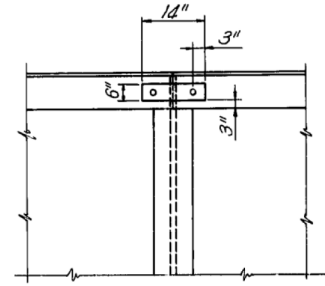
1/2" x 14" x 6" Bent Plate 6' max spacing



TOP VIEW

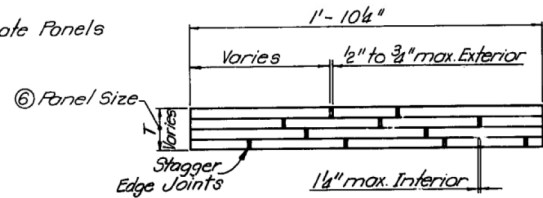
Notes: Plates to be centered on 2x8 and minimum spacing to be four panels. Bent Plate to be used at Pl.'s and corners only.

* All Nuts, Bolts, Washers and Bent Plates shall conform to section 710 of the Standard Specifications as applicable and to the Special Provisions.

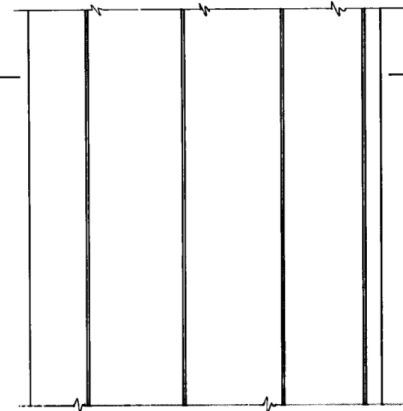


ELEVATION

BENT PLATE DETAIL

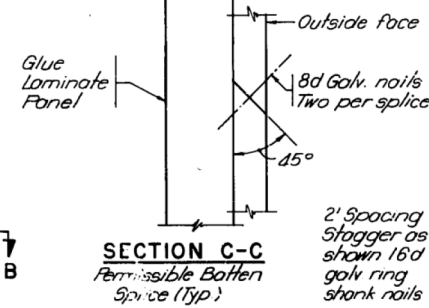


SECTION B-B



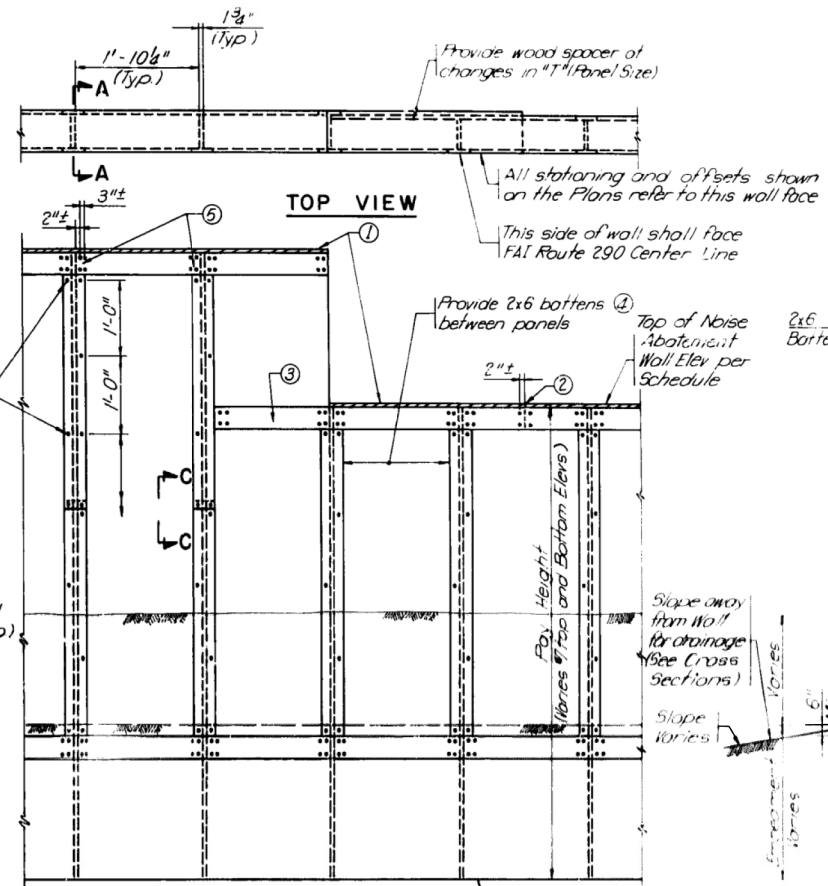
ELEVATION

PANEL DETAIL



SECTION C-C
Permissible Batten Splice (Typ)

- ① - 1" nom. cap board to cover top of panel. Fasten to 2x8's with four 8d galv nails per panel. Incidental to wall construction.
- ② - Minimum distance between opposite splices in top plates is to be 4 ft and approx centered on panel four 16d galv ring shank nails per splice (Typ)
- ③ - Overlay 2x8 top plate approximately 1 panel width when changing wall heights.
- ④ - On both faces the battens shall be placed on every opening between panels.
- ⑤ - Eight 16d galv ring shank nails per panel top and bottom (Typ) Space as shown.
- ⑥ - Panel size "T" varies, see Wood Laminated Noise Wall schedule.

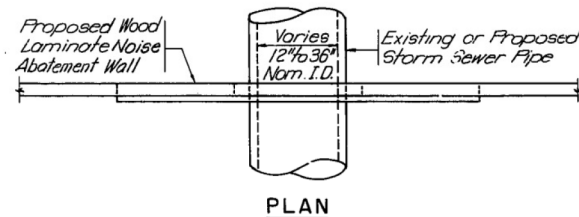


ELEVATION

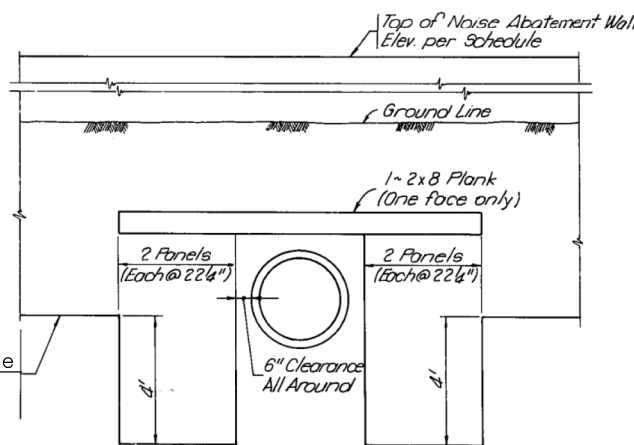
WALL DETAIL

SECTION A-A
With Earth fill

SECTION A-A
Without Earth fill

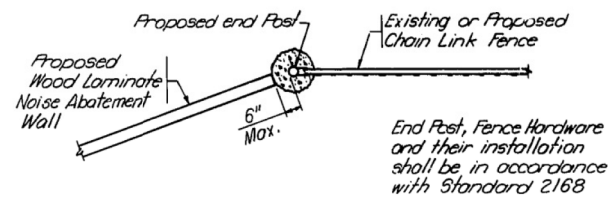


PLAN

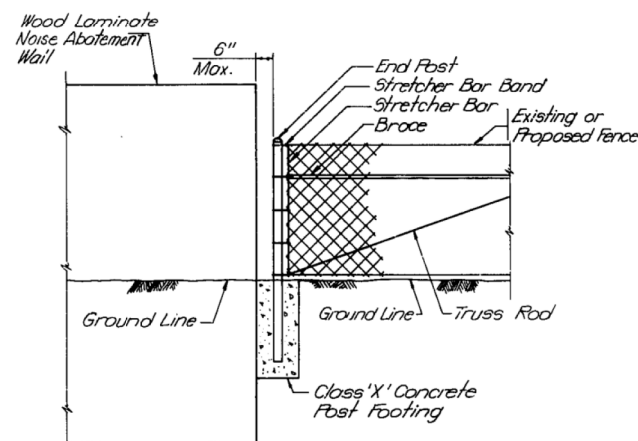


ELEVATION

CROSSING STORM SEWER PIPE



PLAN



ELEVATION

TRANSITION TO A/C FENCE

FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 24 EXISTING NOISE ABATEMENT WALL DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\pwt\dot\gorengautab\d0418648\0112715-sh-t-plen.dgn		DRAWN -	REVISED -			VAR.	2014-0801	VARIOUS	50	40	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62A29					
	PLOT DATE = 2/10/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**LOCATION 25:
I-290 WB RIGHT SIDE
WEST OF EMROY AVE**



**VILLAGE OF ADDISON
ADDISON TOWNSHIP
DUPAGE COUNTY**



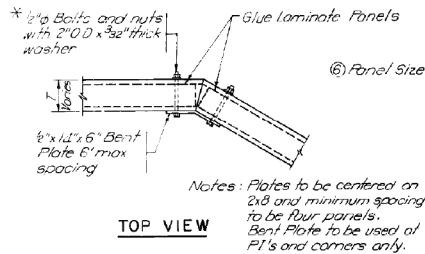
**WOOD WALL
REPLACE 32 FT X 10 FT OF WOOD WALL**

BILL OF MATERIALS

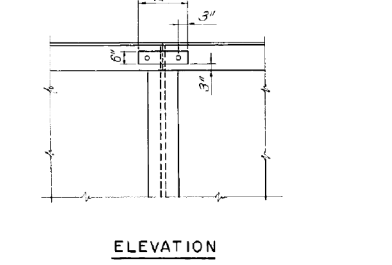
ITEM	UNIT	QUANTITY
NOISE ABUTMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	7.1
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.8
SEEDING CLASS 2A	ACRE	0.0015

NOTE:
SEE SHEET # 2 FOR PANEL INFORMATION.

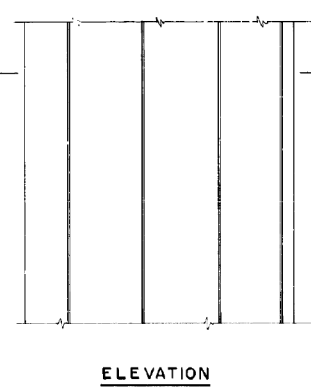
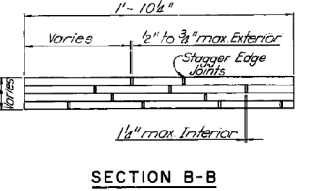
TRAFFIC DATA
I-290: 2013 ADT=141600
SPEED LIMIT =55 MPH



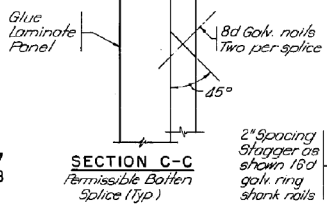
Notes: Plates to be centered on 2x8 and minimum spacing to be 1/4 panels. Bent Plate to be used at PT's and corners only.



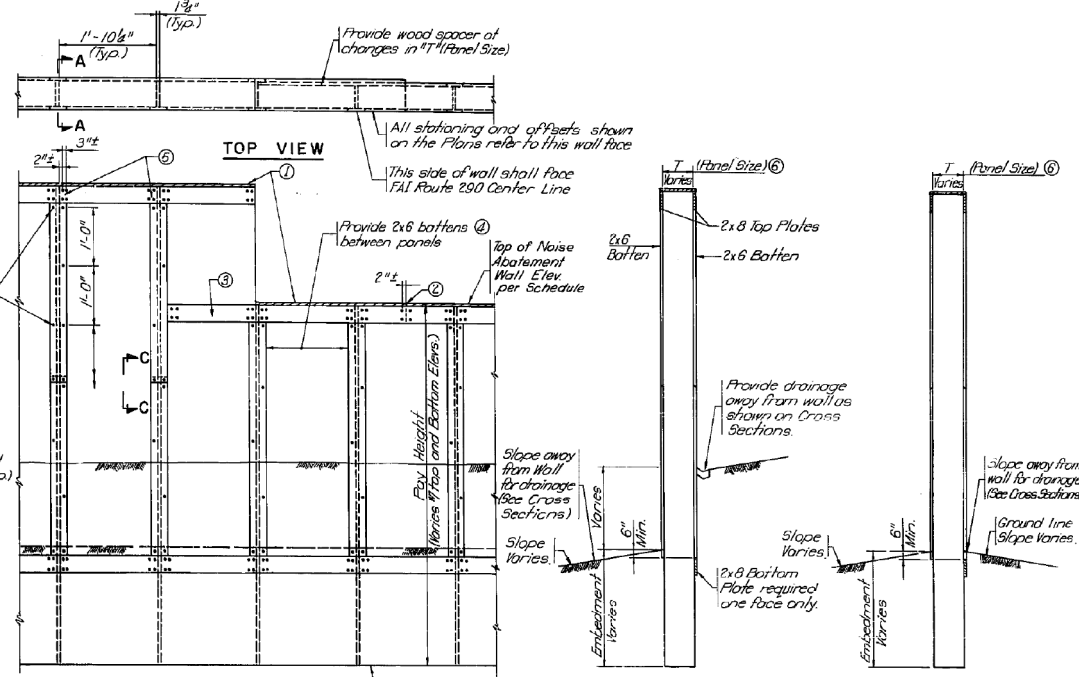
BENT PLATE DETAIL



PANEL DETAIL



- ① - 1" nom. cap board to cover top of panel. Fasten to 2x8's with four 8d galv. nails per panel. Incidental to wall construction.
- ② - Minimum distance between opposite splices in top plates is to be 4ft and approx centered on panel. Four 8d galv. ring shank nails per splice (typ).
- ③ - Overlay 2x8 top plate approximately 1 panel width when changing wall heights.
- ④ - On both faces the battens shall be placed on every opening between panels.
- ⑤ - Eight 16d galv. ring shank nails per panel top and bottom (typ). Space as shown.
- ⑥ - Panel size "T" varies, see Wood Laminate Noise Wall schedule.

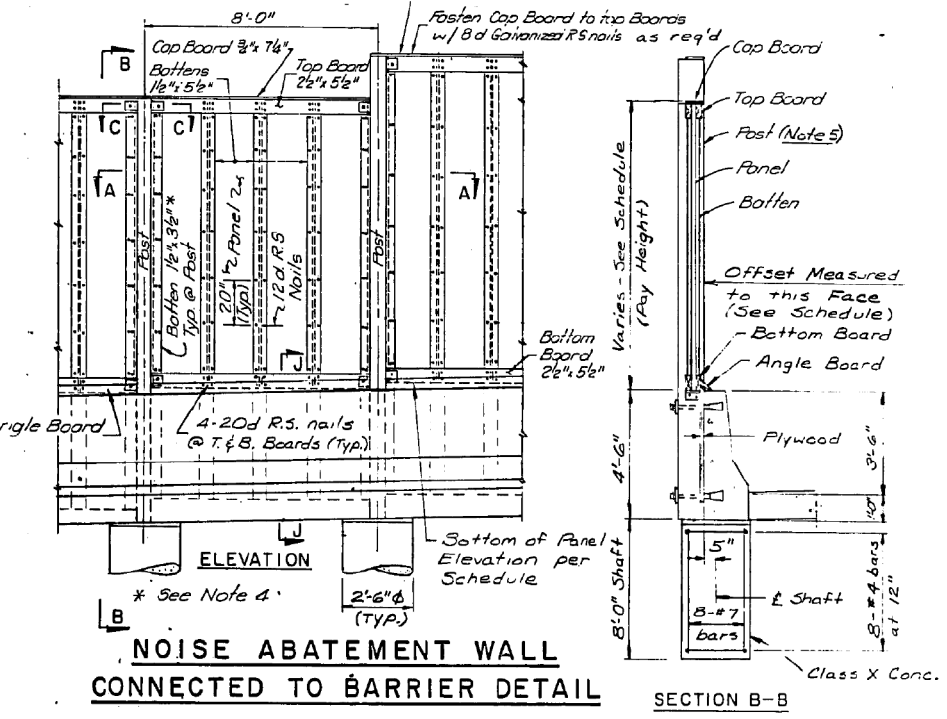


WALL DETAIL

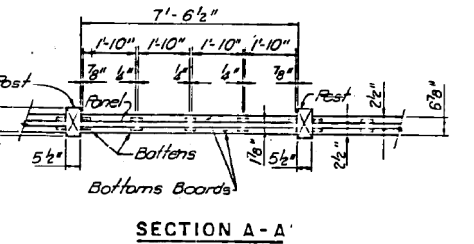
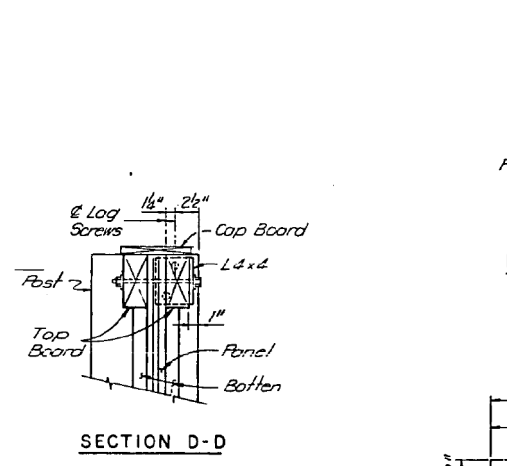
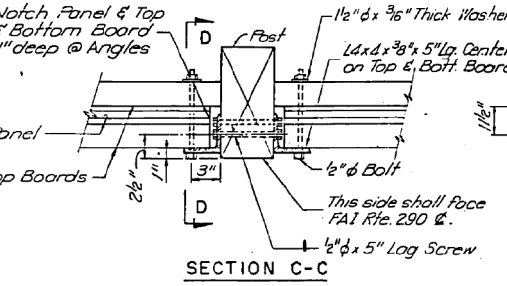
- NOTES (ALSO SEE NOTES ON SHEET 129)**
- 1 - All metal, including nails, nuts, bolts, washers, plates and angles, shall conform to section 710 of the Std. Specifications, as applicable, and to the Special Provisions.
 - 2 - Shop Drawings shall be submitted in accordance with the requirements of Article 105.03 of the Std. Specifications
 - 3 - All wood dimensions are net, not nominal.
 - 4 - Nail the 1/2"x3/8" batten, adjacent to the post, on the side facing FAI. Rte 290 to the panel only, and nail the corresponding batten on the other side of panel to the post only.
 - 5 - A GLUE LAM POST ALTERNATE shall be used if it is shown to be more economical than the 8x14 and 6x12 posts indicated. See Sheet 126 for details.
 - 6 - Plywood Panels shall be stained the same color as the posts and laminated panels.

DESIGN CRITERIA

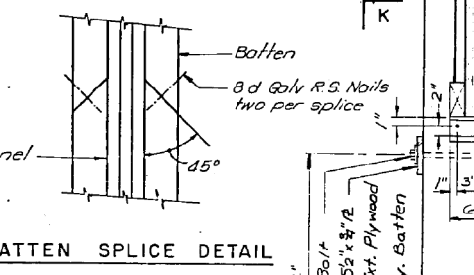
Wind Load.....	30 PSF
Concrete Barrier Load....	10,000 Lbs (Spread over a Longitudinal Length of 5'-0")
Laminated Panel.....	A-87 Visually Graded Southern Pine F _b = 1400 psi.
Post.....	Grade No. 1 Dense SR Southern Pine F _b = 1550 psi.
Top & Bottom Boards.....	Grade Select Structural Southern Pine F _b = 1400 psi.
Structural Steel.....	A36 F _y = 36,000 psi.
Bolts & Lag Screws.....	A307
Concrete.....	f'c = 3,500 psi.
Reinforcement Bars.....	F _y = 60,000 psi.



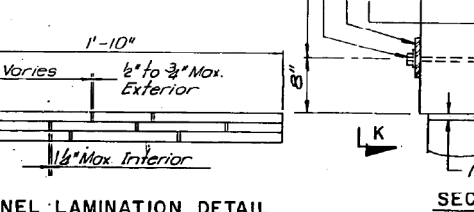
NOISE ABATEMENT WALL CONNECTED TO BARRIER DETAIL



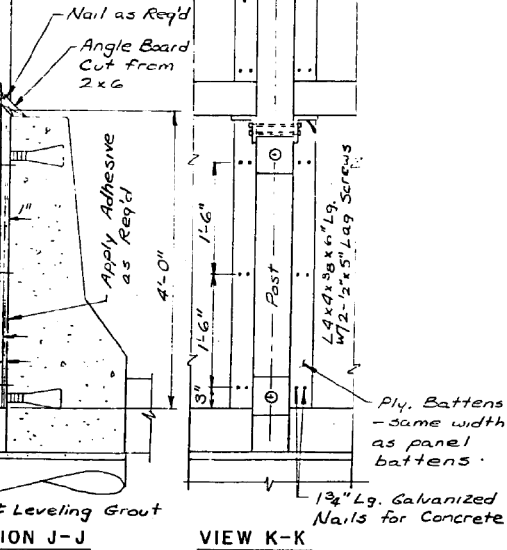
SECTION A-A



BATTEN SPLICE DETAIL



PANEL LAMINATION DETAIL



SECTION J-J and **VIEW K-K**

FOR INFORMATION ONLY



LOCATION 26: IL 53 EXTENSION.
RAMP FROM EB LAKE COOK
TO SB IL 53 EXT.



WOOD WALL
REPLACE 12 FT X 11 FT OF NOISE WALL

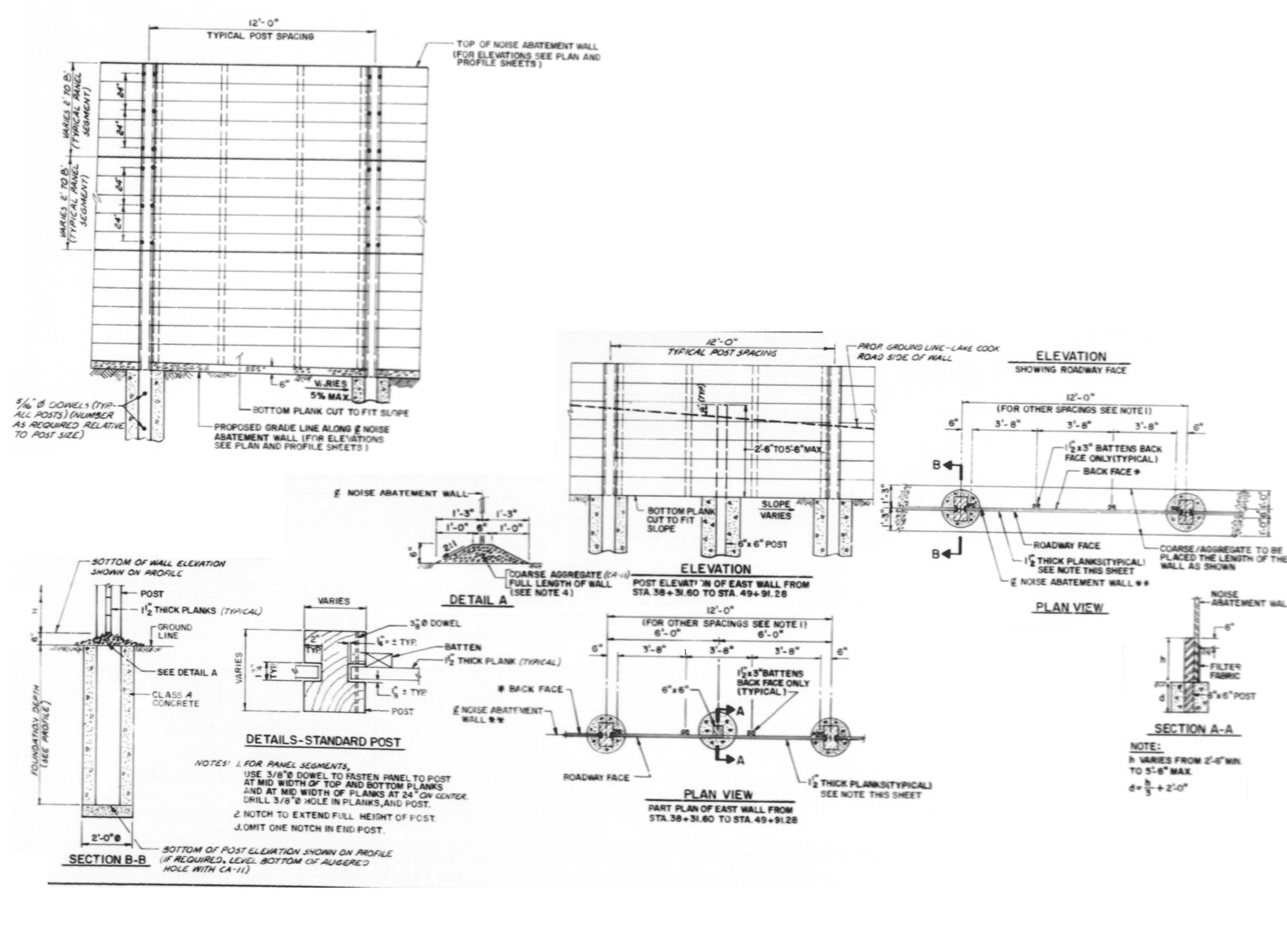
VILLAGE OF PALATINE
PALATINE TOWNSHIP
COOK COUNTY

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.6
TEMPORARY EROSION CONTROL	SQ. YDS	5.5
SEEDING CLASS 2A	ACRE	0.0011
NOISE ABUTMENT WALL REPAIR	L SUM	0.25

TRAFFIC DATA

IL 53: 2013 ADT = 71800
SPEED LIMIT = 55 MPH



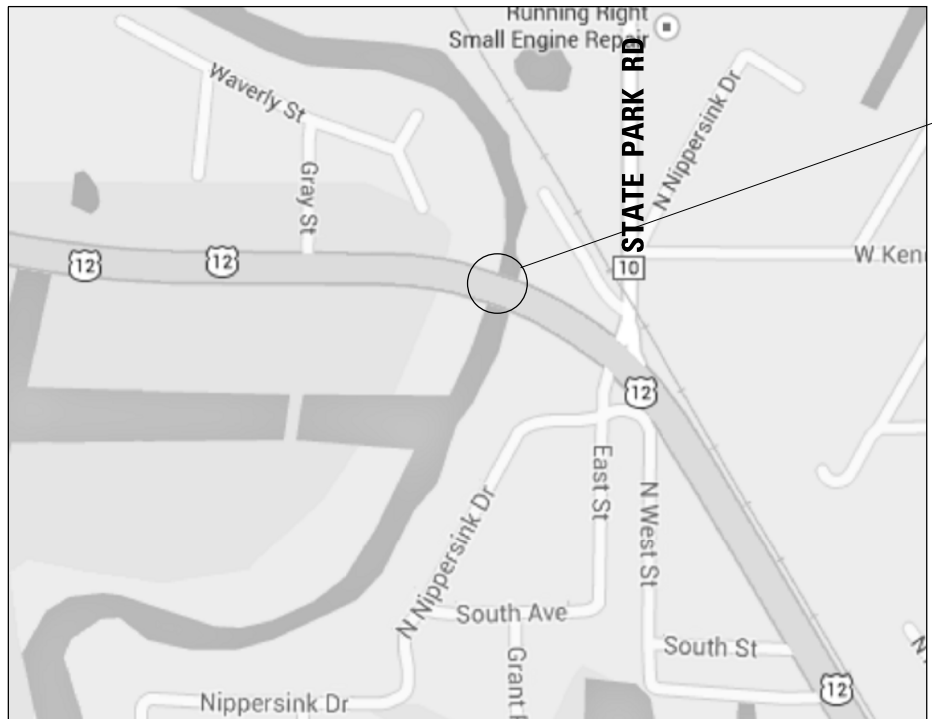
- NOTES:**
1. ALL POST SPACINGS ARE 12'-0" EXCEPT AT STATIONS GIVEN IN THE TABLE ON THIS SHEET.
 2. ALL PLANKS ARE 1 1/2" THICK EXCEPT BETWEEN POSTS AT STA. 215+92.56 AND STA. 216+15.56 WHERE THE PLANKS ARE 2" THICK.
 3. BOTTOM PLANKS SHALL BE CUT TO FOLLOW GROUND SLOPE EXCEPT BETWEEN POSTS AT STA. 219+57.35 AND STA. 220+00 .
 4. BOTTOM OF WALLS SHALL BE 6" ABOVE GROUND EXCEPT
 - a) FROM STA. 215+92.56 TO STA. 216+15.56 WHERE THE BOTTOM PLANKS WOULD REST OVER THE GROUND.
 - b) FROM STA. 219+88 TO STA. 220+00 FOR DITCH CROSSING.
 - c) FROM STA. 38+31.60 TO STA. 49+91.28 WHERE THE BOTTOM PLANKS WOULD REST OVER THE GROUND.
 5. AT DITCH CROSSING BETWEEN POSTS AT STA. 219+88 AND STA. 220+00 STOPS SHOULD BE PROVIDED IN THE POST GROOVES AND OR THE BOTTOM PLANKS SHOULD BE SO TIED TO THE POSTS AS NOT TO PERMIT ANY DOWNWARD MOVEMENT OF THE WALL BELOW THE ELEVATION SHOWN.
 6. ALL WOOD DIMENSIONS ARE NET, NOT NOMINAL. ALL DOWELS SHALL BE ASTM A36 STEEL GALVANIZED.
 7. SYSTEM IS DESIGNED FOR A WIND PRESSURE OF 30 PSF.
 8. POSTS, PLANKS AND BATTENS SHALL BE HARDWOOD MATERIAL (SEE SPECIFICATIONS).
 9. * PROPERTY OWNER SIDE.
 10. ** FOR ALIGNMENT SEE PLAN AND PROFILE SHEETS.

FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 26. EXISTING NOISE ABATEMENT WALL	F.A. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\midot\gorengautob\d0418648\112715-sh-t-plan.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			VAR.	2014-0801	VARIOUS	50	44	
Default	PLOT DATE = 2/11/2015	CHECKED -	REVISED -			CONTRACT NO. 62A29					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

R 9 E

T 45 N



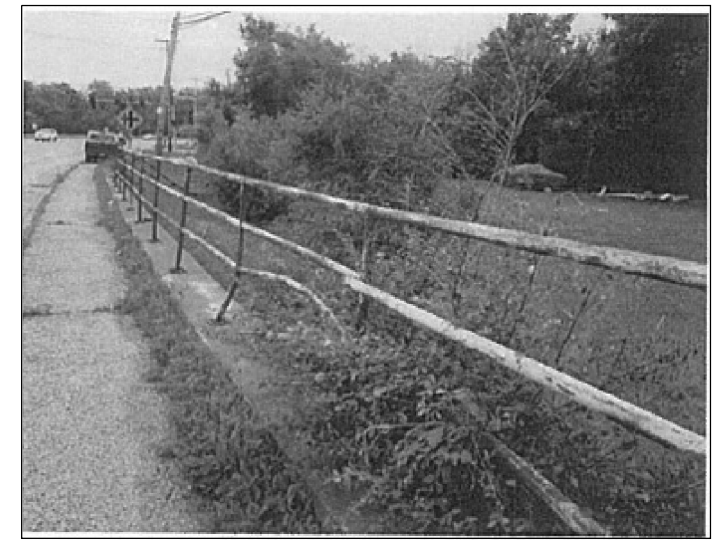
**LOCATION 27: US 12
OVER NIPPERSINK CREEK
SN 056-0057**



BILL OF MATERIALS

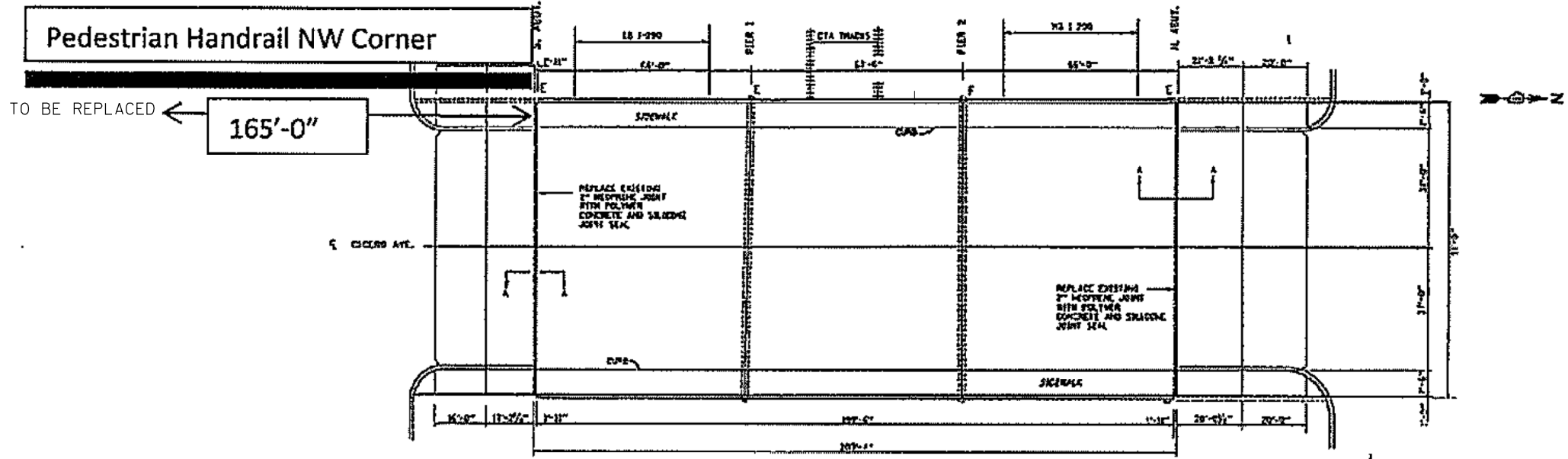
ITEM	UNIT	QUANTITY
* PIPE HANDRAIL	FOOT	165

* COST OF EXISTING HANDRAIL REMOVAL IS INCLUDED IN THE COST OF "PIPE HANDRAIL".



**PEDESTRIAN HANDRAIL
REPLACE 165 FT OF PIPE HANDRAIL**

**VILLAGE OF PISTAKEE HIGHLANDS
MCHENRY TOWNSHIP, MCHENRY COUNTY**

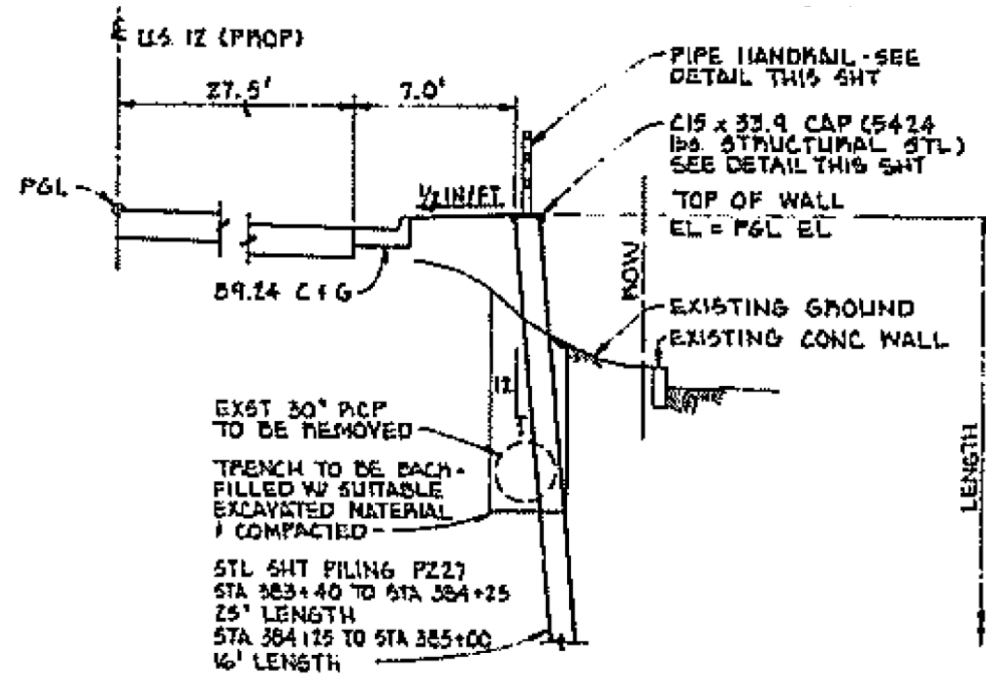


(FOR INFORMATION ONLY)

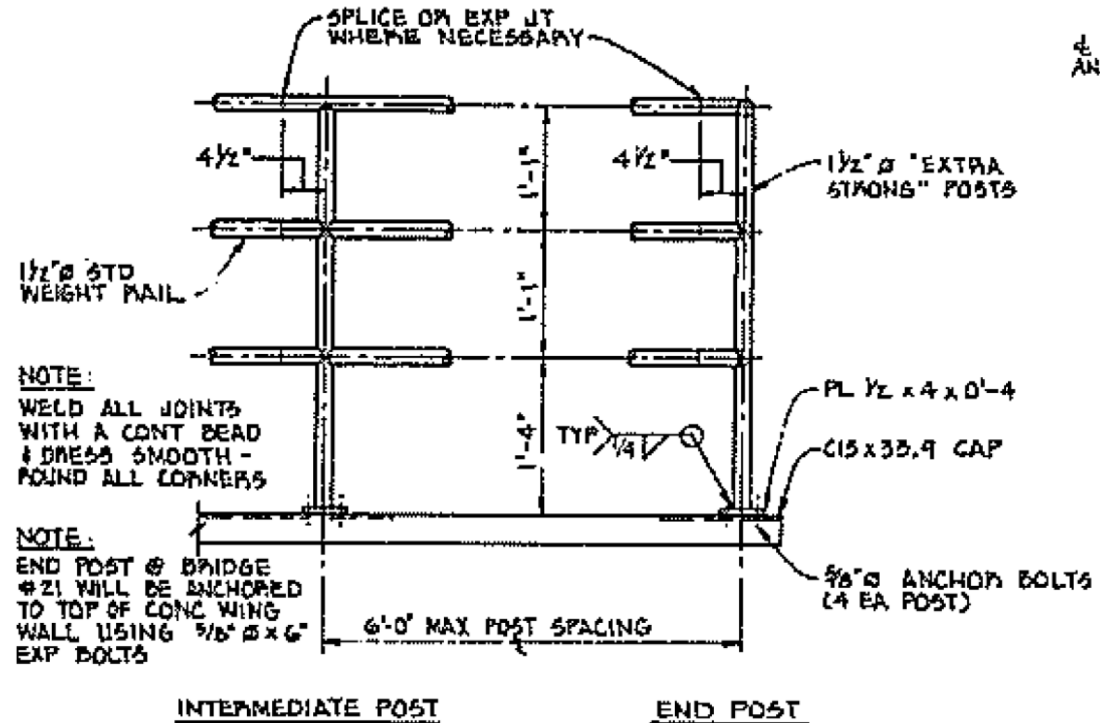
TRAFFIC DATA

**US 12: 2013 ADT = 12500
SPEED LIMIT = 45 MPH**

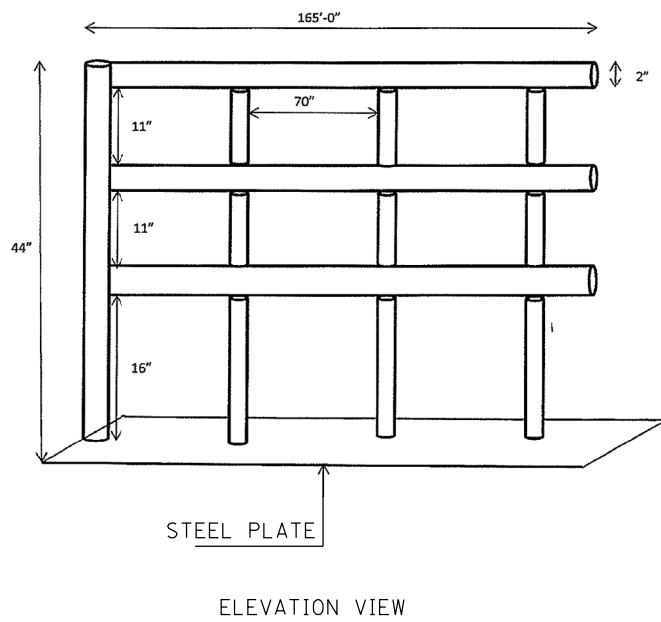
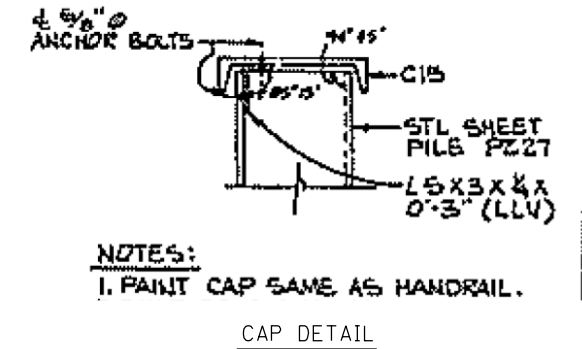
CULVERT THRU WALL DETAILS
STA. 280+49, LT.
STA. 290+29, LT.



RETAINING WALL SECTION

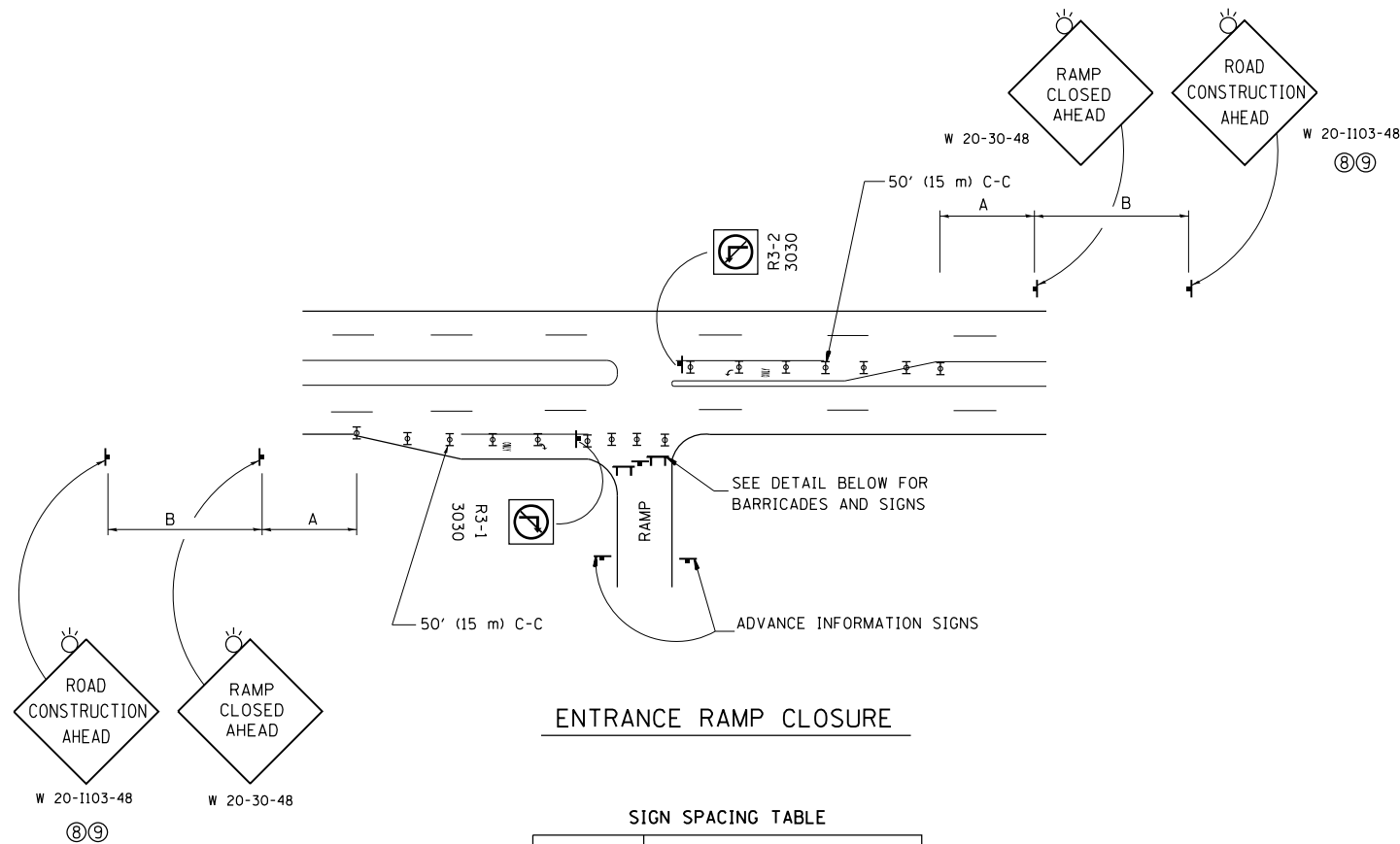


PIPE HANDRAIL DETAIL



FOR INFORMATION ONLY

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 27 (SN 056-0057) EXISTING HANDRAIL DETAILS	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	112715-sh-t-plen.dgn	DRAWN -	REVISED -			VAR.	2014-0801	VARIOUS	50	46	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 62A29					
	PLOT DATE = 2/5/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

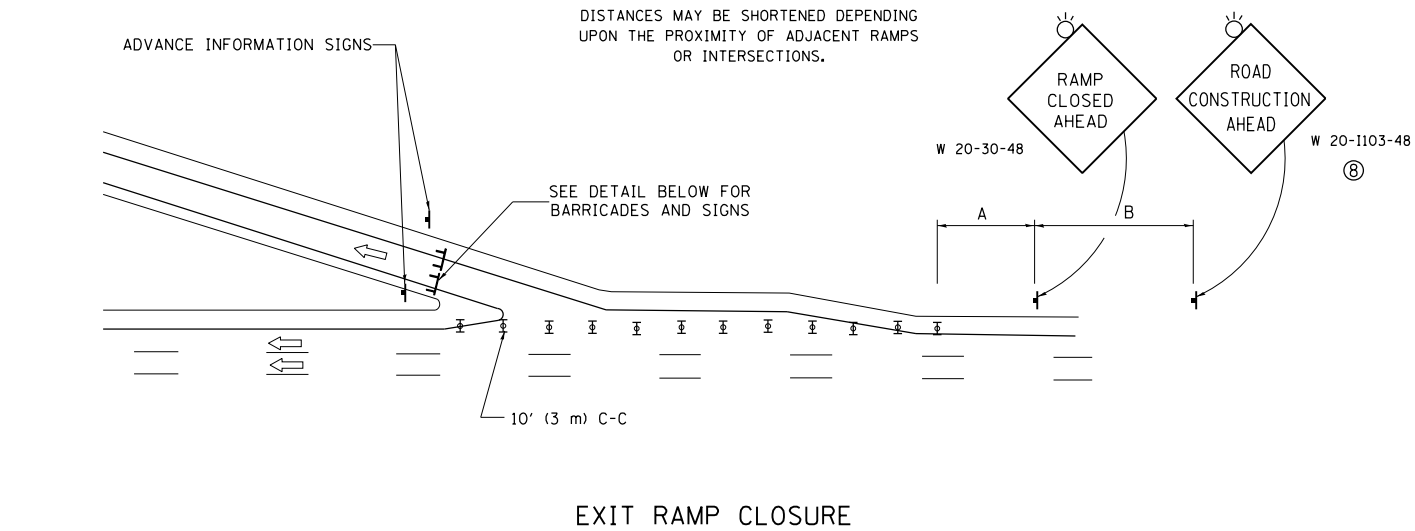


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

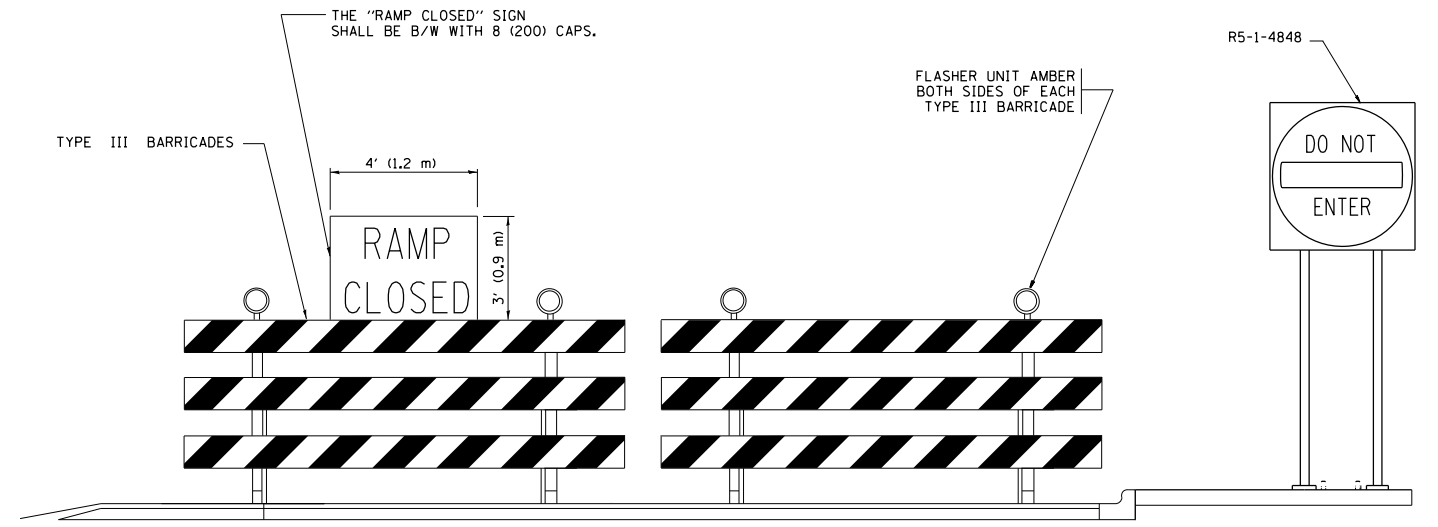
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

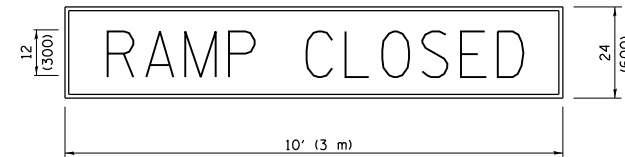
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

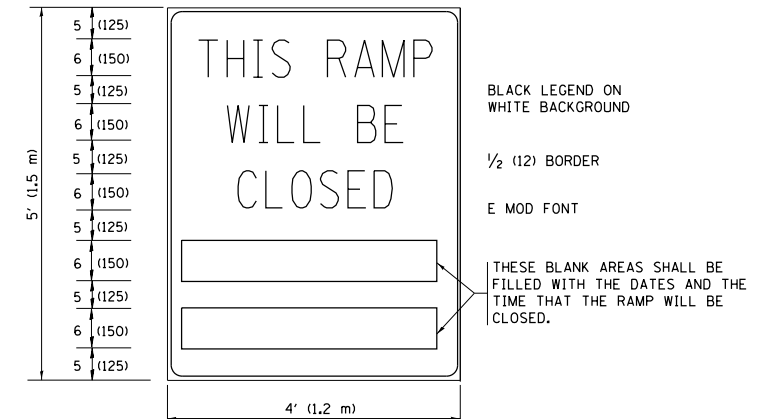
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME =	USER NAME = Gorengautab	DESIGNED - DWS	REVISED - JAF 02-06
et:\pwork\pwork\gorengautab\d0418648\1stStd.dgn		DRAWN -	REVISED - SPB 01-07
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 2/5/2015	DATE - 02-83	REVISED - MD 06-13

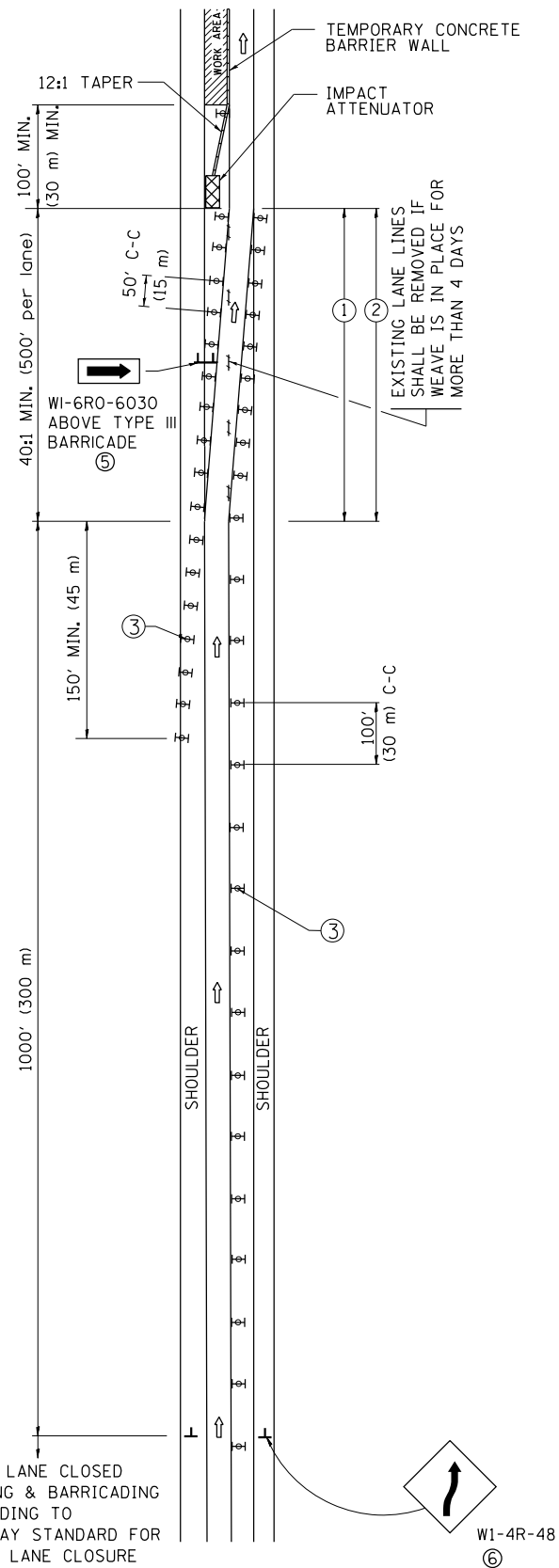
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

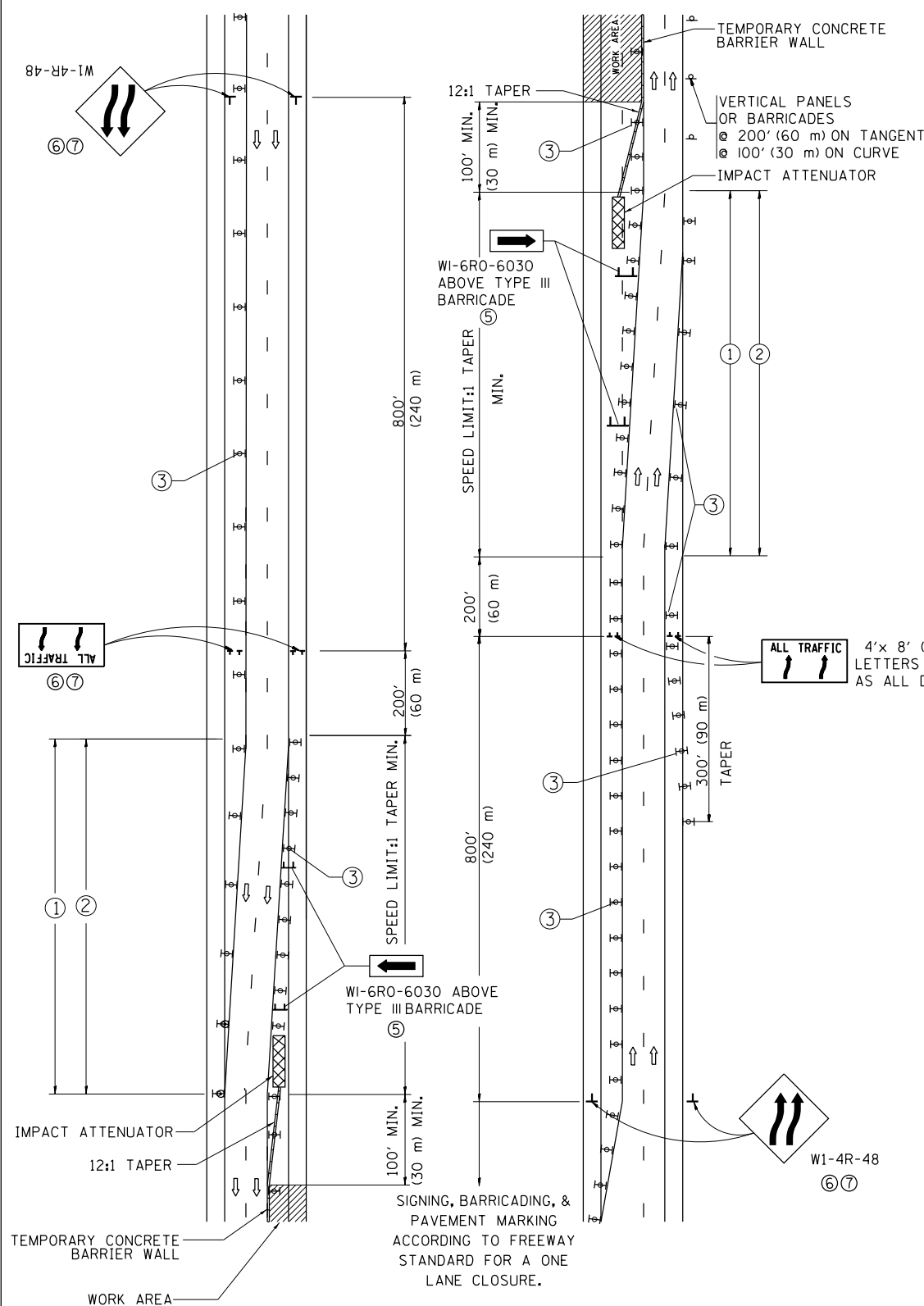
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2014-0801	VARIOUS	50	47
TC-08		CONTRACT NO. 62A29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE

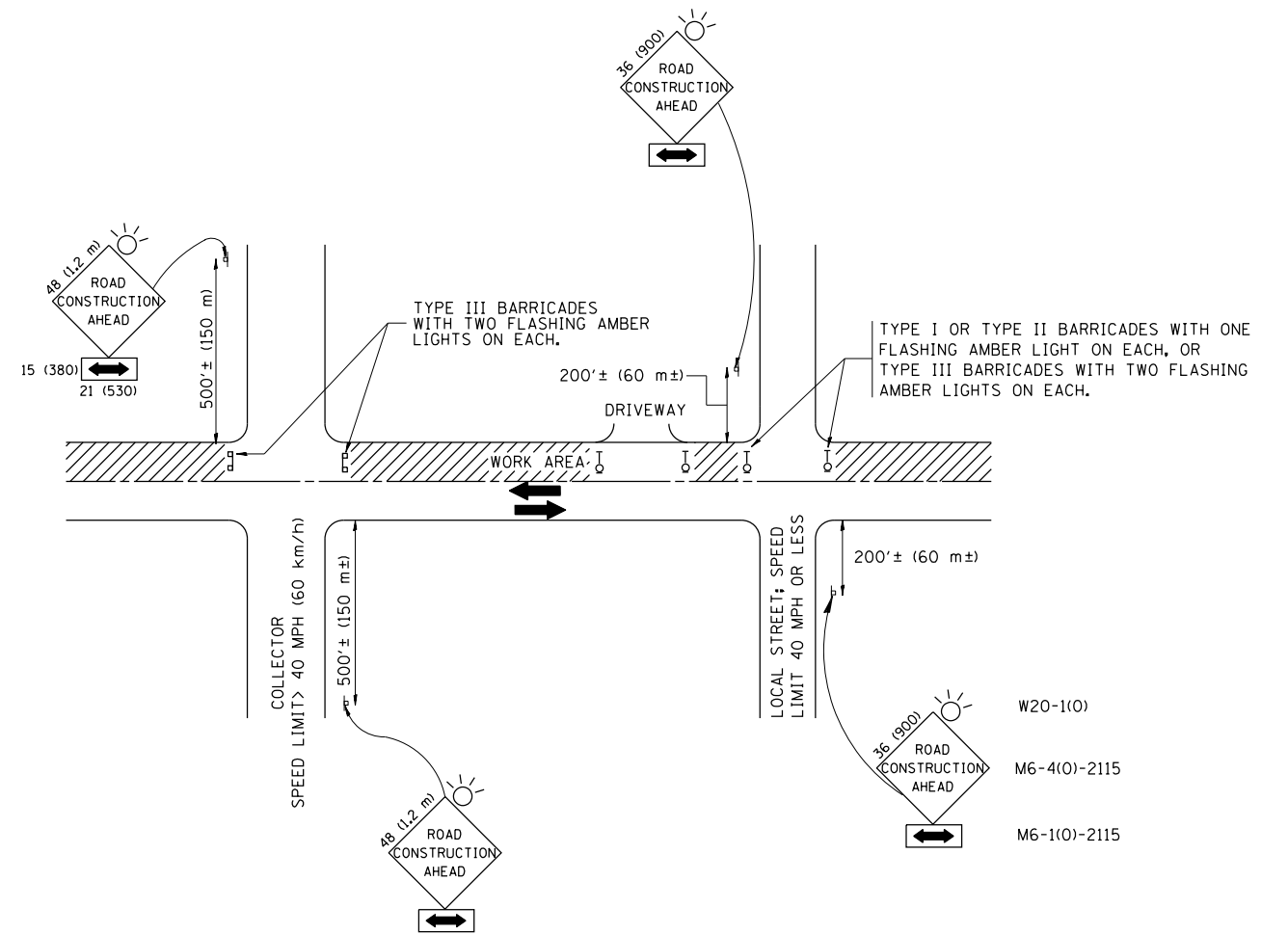


- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

- ### SYMBOLS
- DIRECTION OF TRAFFIC
 - WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
 - TEMPORARY CONCRETE BARRIER WALL
 - IMPACT ATTENUATOR
 - W1-4R-48
 - W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = Gorengautab	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\gorengautab\d0418648\1stStd.dgn	DRAWN -	REVISED - SPB 01-07	REVISED - SPB 12-09					VAR	2014-0801	VARIOUS	50	48
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - MD 06-13	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		TC-09 CONTRACT NO. 62A29			
PLOT DATE = 2/5/2015	DATE - 02-87							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = Gorengautab	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
et:\pwork\pwork\gorengautab\d0418648\1stStd.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/5/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

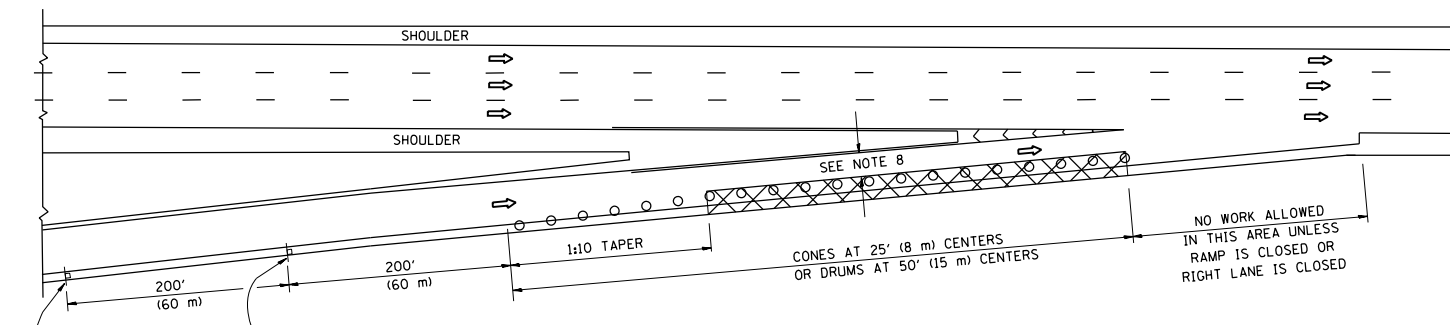
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

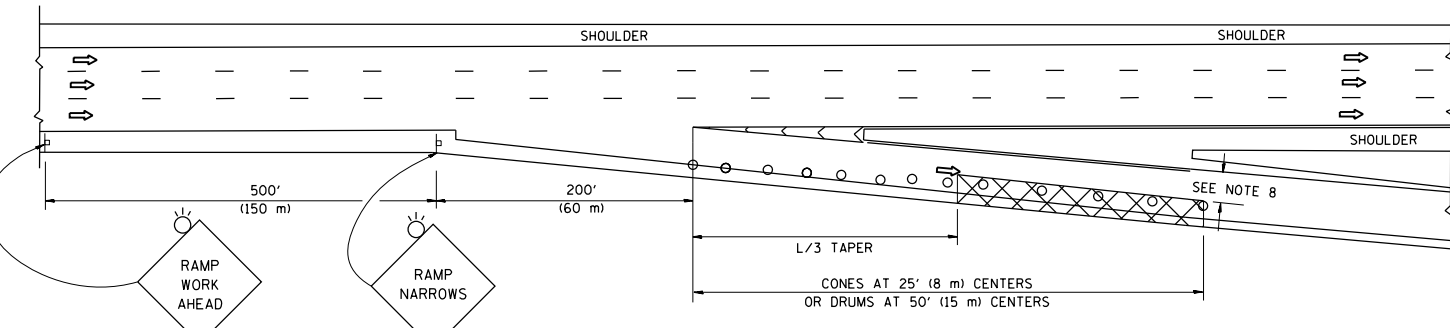
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2014-0801	VARIOUS	50	49
TC-10			CONTRACT NO. 62A29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

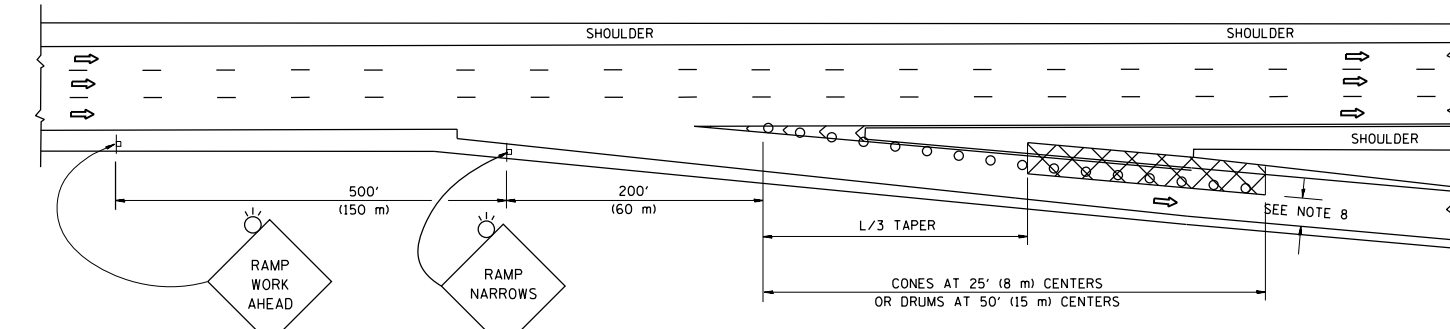
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

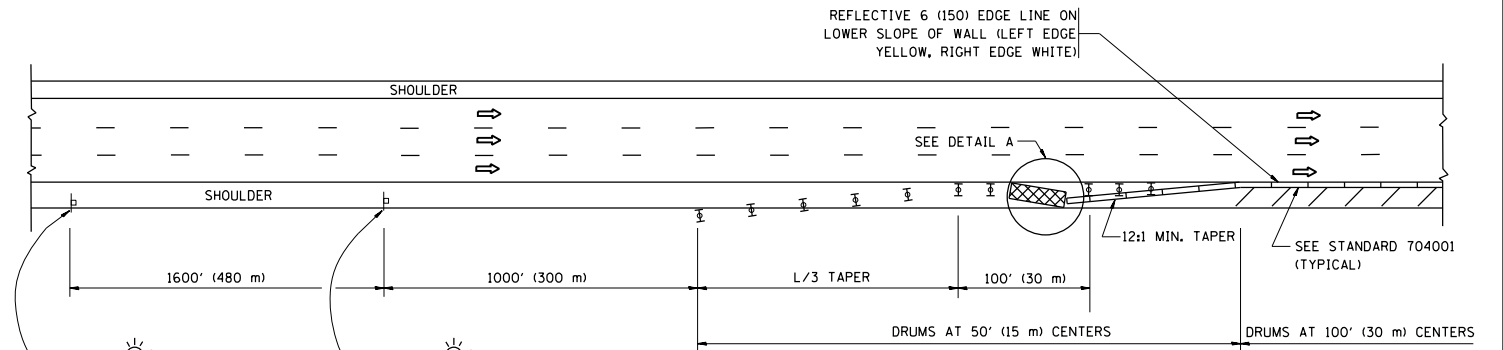
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

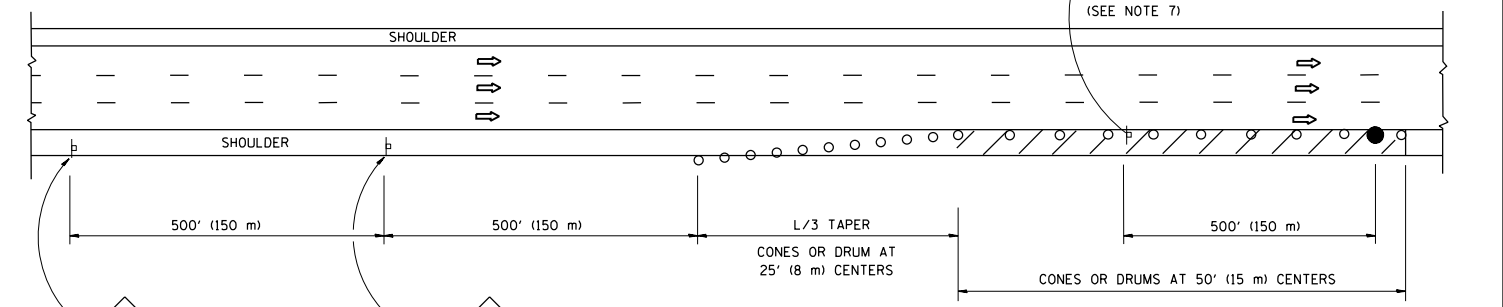
1. THE "L" DISTANCE EQUALS:

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

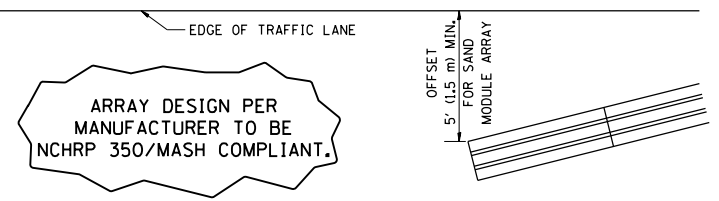


PERMANENT SHOULDER CLOSURE



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 = Gorengautab	DESIGNED -	REVISED - J.A.F. 12-06
et:\pw\work\p\dot\gorengautab\d0418648\1stStd.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 2/5/2015	DATE - 11-96	REVISED - M.D. 06-13

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2014-0801	VARIOUS	50	50
TC-17		CONTRACT NO. 62A29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				