

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 37)I	LASALLE	9	1

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. GENERAL ROADWAY PLAN
5. TEMPORARY SHEET PILE DETAILS
6. SOIL BORING LOG
7. WINGWALL REMOVAL DETAILS
8. WINGWALL RECONSTRUCTION DETAILS
9. SIGHT SCREEN CHAIN LINK FENCE DETAILS

STANDARDS

- 606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-01 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY
- 701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701601-04 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701801-03 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 702001-05 TRAFFIC CONTROL DEVICES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

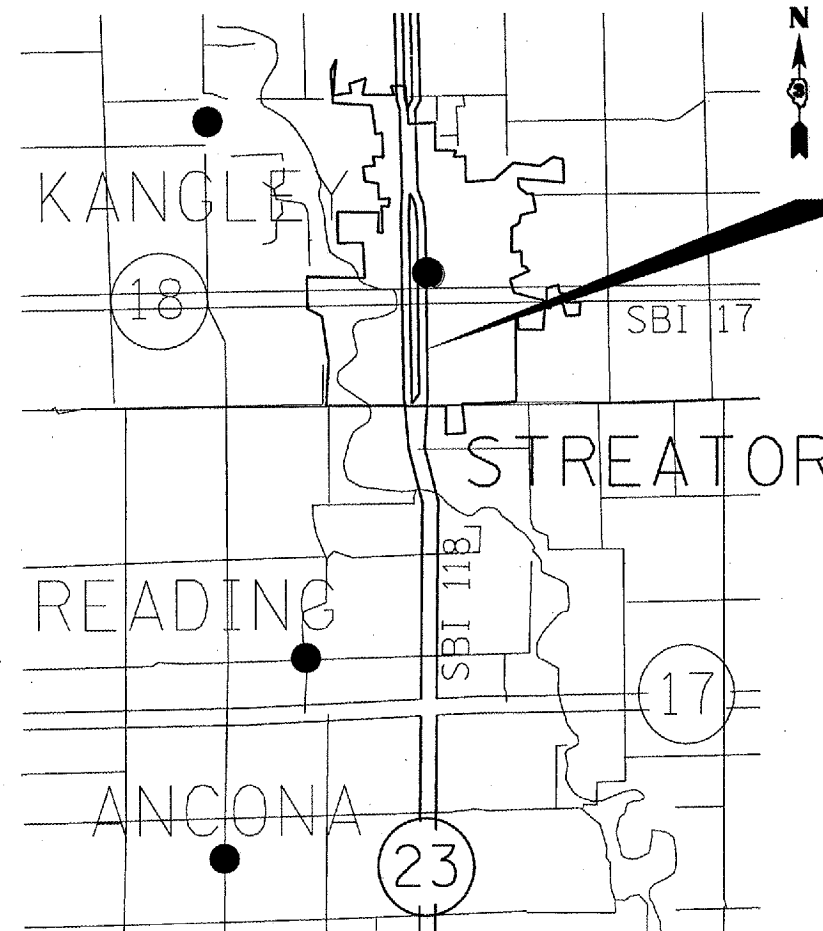
**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 68 (IL ROUTE 23 ALT.)
 SECTION (99,100,37)I

PROJECT
 LASALLE COUNTY

C-93-018-06
 BOX CULVERT REPAIR

D-93-002-06



PROJECT LOCATION
 IL ROUTE 68
 (IL ROUTE 23 ALT.)
 SOUTH PARK STREET
 10' X 4' BOX CULVERT
 STA. 569 + 78.5
 APPROXIMATELY 0.58 MILES
 SOUTH OF BRIDGE STREET (IL Route 18 EB)

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

DISTRICT 3, BUREAU OF OPERATIONS
 PROJECT ENGINEER: TOM HUFFNAGEL (815) 434-8418
 UNIT CHIEF: RON WOODSHANK (815) 434-8419

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 10/27/05
Gregory Mounts
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 20 05
Mike Hens
 ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 20 05
Eric Harman
 DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

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 OF THE STATE OF ILLINOIS**

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 37)I	LASALLE	9	2

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID FOR THE WORK.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN Article 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS, UNLESS OTHERWISE NOTED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE VARIOUS PAY REMOVAL PAY ITEMS INVOLVED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EXCAVATION ITEMS INVOLVED.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

DATE: 10/25/05

PREPARED BY: [Signature]
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
ACTING DISTRICT STUDIES & PLANS ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>GENERAL NOTES</p> <p>FAP 68 ALT. (IL 23 ALT.)</p> <p>SECTION: (99, 100, 37)I</p> <p>LASALLE COUNTY</p> <p>STA. 569 + 78.5</p>

DATE 09/12/2005 DRAWN BY RLW

Date: 09/30/2005
File: c:\projects\cmaln06\cm323\details.dgn

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 37)I	LASALLE	9	3

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: Y007

CODE NO.	ITEM	UNIT	URBAN 100% STATE TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	40
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	20
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	185
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	37
44000600	SIDEWALK REMOVAL	SQ FT	185
50102400	CONCRETE REMOVAL	CU YD	1.4
50102500	CONCRETE REMOVAL (SPECIAL)	CU YD	5
50200100	STRUCTURE EXCAVATION	CU YD	37
50300255	CONCRETE STRUCTURES	CU YD	1.4
50800105	REINFORCEMENT BARS	POUND	142
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	77
51000205	PIPE HANDRAIL REMOVAL	FOOT	31
51205200	TEMPORARY SHEET PILING	SQ FT	408
54002060	EXPANSION BOLTS 3/4 INCH X 12 INCH	EACH	10
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	7
60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	37
64000110	SIGHT SCREEN (CHAIN LINK FENCE) 6'	FOOT	40
67100100	MOBILIZATION	L SUM	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
XX002909	CLASS SI CONCRETE	CU YD	1

Date: 09/30/2005
File: c:\projects\cm323\detalls.dgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

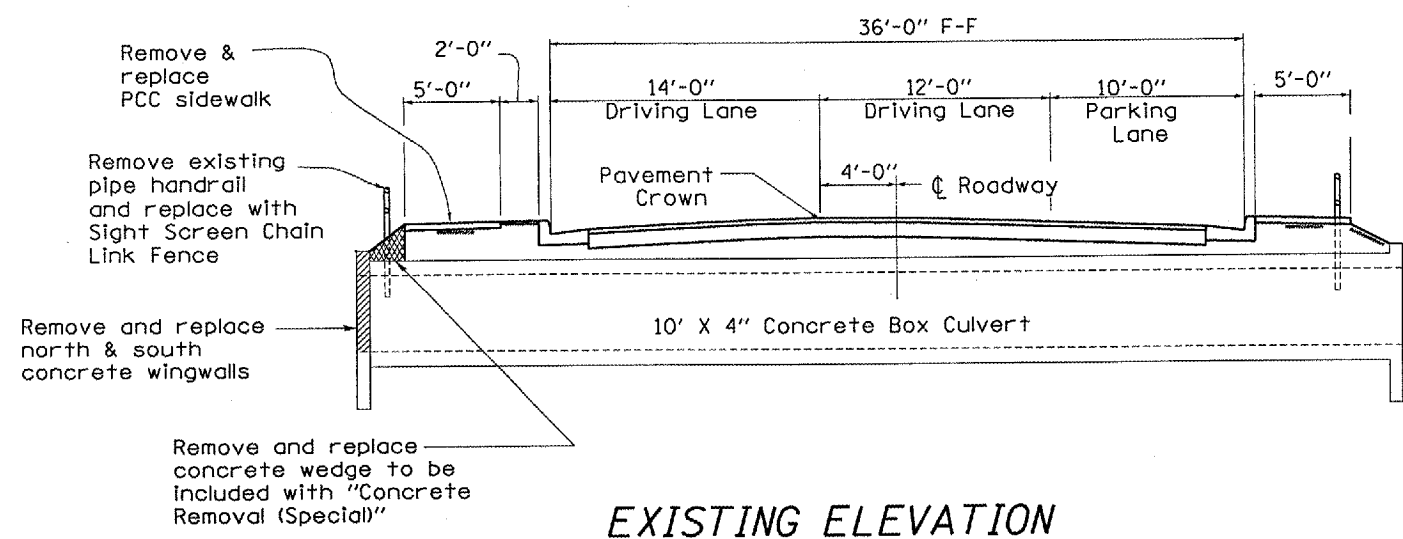
SUMMARY OF QUANTITIES

FAP 68 ALT. (IL 23 ALT.)
SECTION: (99, 100, 37)I
LASALLE COUNTY
STA. 569 + 78.5

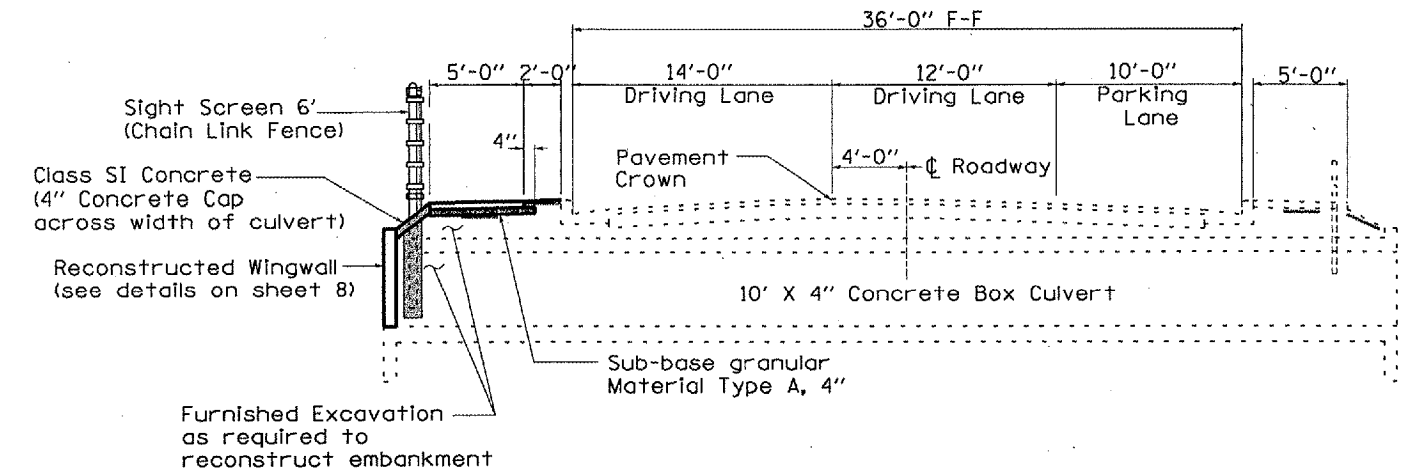
DATE 09/12/2005

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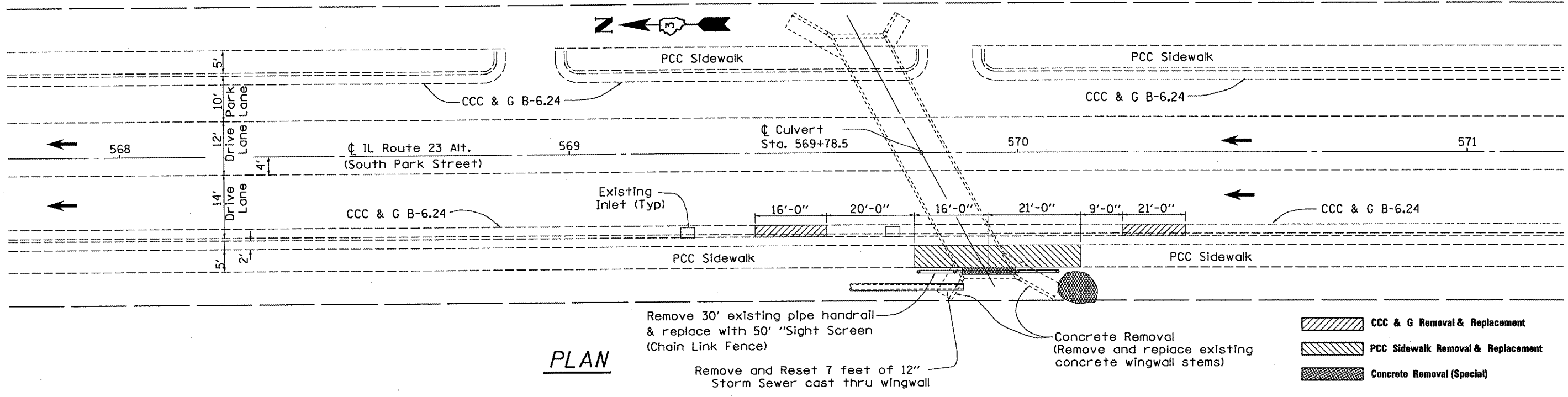
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 37)I	LASALLE	9	4



**EXISTING ELEVATION
LOOKING NORTH**



**PROPOSED ELEVATION
LOOKING NORTH**



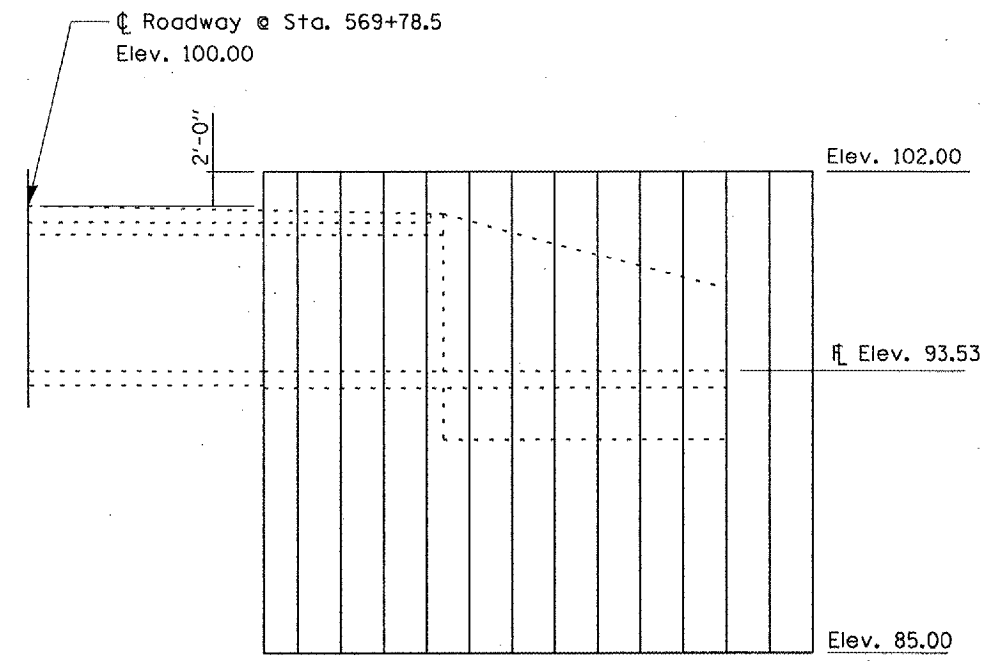
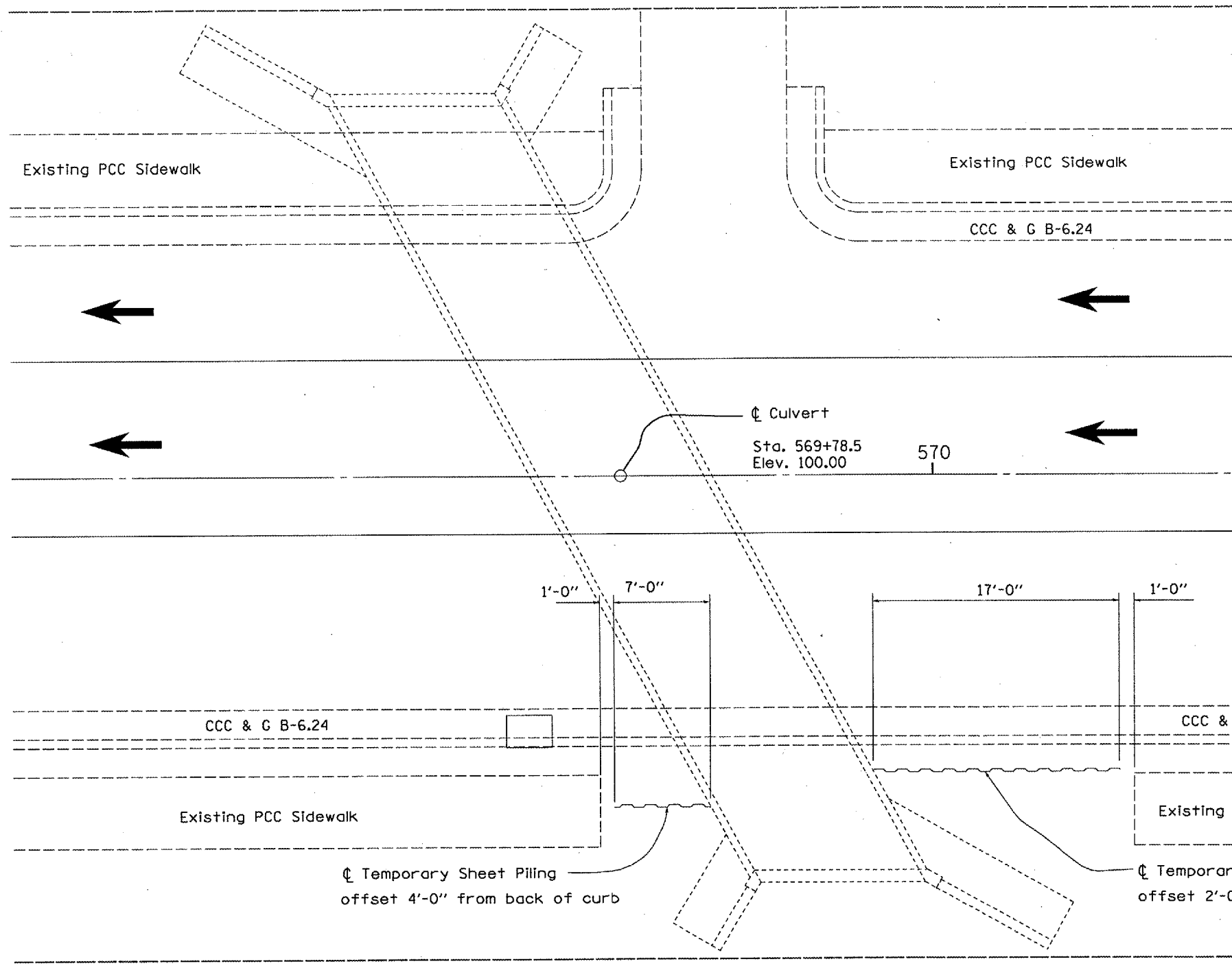
PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL ROADWAY PLAN
 FAP 68 ALT. (IL 23 ALT.)
 SECTION: (99, 100, 37)I
 LASALLE COUNTY
 STA. 569 + 78.5
 DATE 09/12/2005 DRAWN BY RLW

Date: 09/30/2005
 File: c:\projects\main06\cm323\details.dgn

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 371)	LASALLE	9	5



ELEVATION

NOTE: The Contractor shall be responsible for coordinating with the City in locating all utilities, sewers, drains, etc. prior to driving the sheet piling.

BILL OF MATERIAL
 TEMPORARY SHEET PILING SQ FT 408

PLAN

NOTE: After the PCC Sidewalk has been removed to the limits shown, the Contractor shall expose the edge of the existing box culvert prior to driving the temporary sheet pile.

If the existing box culvert is damaged due to the driving of the sheet pile, the concrete box culvert shall be repaired to the satisfaction of the Engineer. No compensation will be allowed for this repair.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY SHEET PILING DETAILS
 FAP 68 ALT. (IL 23 ALT.)
 SECTION: (99, 100, 371)
 LASALLE COUNTY
 STA. 569+78.5
 DATE 09/12/2005 DRAWN BY RLW

Date: 09/30/2005
 File: c:\projects\cm323\details.dgn

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 37)I	LASALLE	9	6



Illinois Department of Transportation
 Division of Highways
 Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/29/05

ROUTE Ill 23 NB DESCRIPTION SW wingwall LOGGED BY LM-IDOT
 SECTION _____ LOCATION SW 14, SEC. 36, TWP. 31N, RNG. 3E, 3rd PM
 COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. 1
 Station 23' south
 Offset 24.00ft West
 Ground Surface Elev. _____ ft

D E P T H S T R U C T U R E	B L O W S Q U A R E	U C S Q U A R E	M O I S T U R E	Surface Water Elev. _____ ft	D E P T H S T R U C T U R E	B L O W S Q U A R E	U C S Q U A R E	M O I S T U R E
(ft)	(6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(6")	(tsf)	(%)

Augered Brown Silty Clay Loam Fill				Hard Gray Silt stone/Silty Shale slightly Micaceous (continued)	60			
					1002"	>4.5	6.8	P
				End of Boring				
Very Stiff Brown/Black/Red Sandy Loam Fill w/coal pieces, mine dump, limestone pieces, & Clay Tile pieces	2							
	4	3.0	9.9					
	4	P						
	-5				-25			
	5							
	4	2.3	15.3					
	4	P						
Stiff Gray/Brown Loam & Clay Loam	3							
	3	1.5	13.5					
	4	P						
Hard Gray Weathered Blocky Silt Stone/Silty Shale slightly Micaceous	-10				-30			
	7							
	10	>4.5	13.1					
	12	P						
Hard Gray Silt stone/Silty Shale slightly Micaceous	12							
	34	>4.5	8.3					
	18	P						
	-15				-35			
	6							
	34	>4.5	8.8					
	23	P						
	13							
	34	>4.5	8.5					
	1004"	P			-40			
	-20							

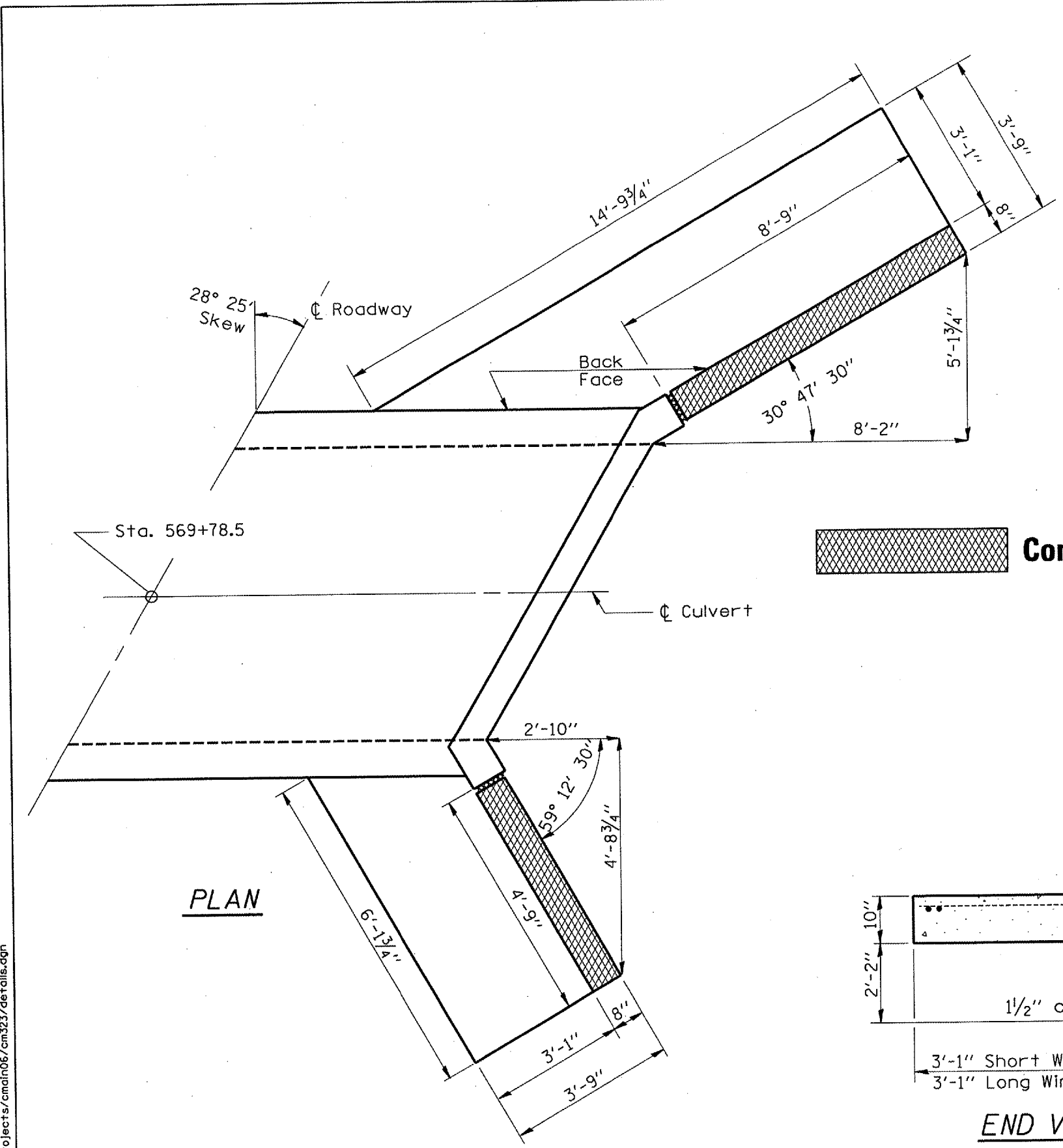
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

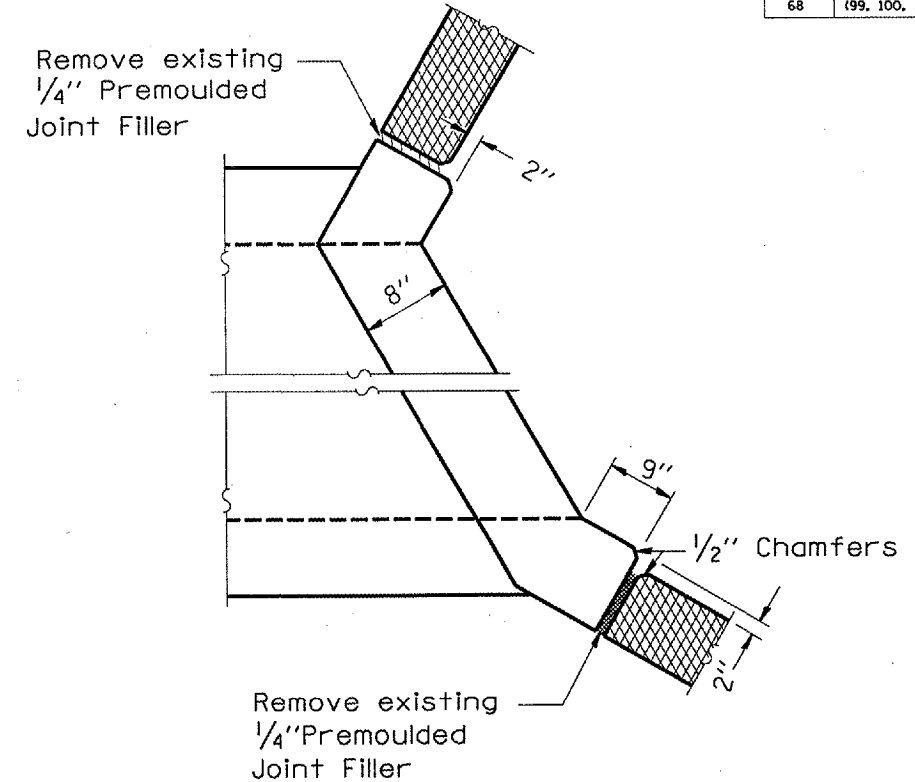
ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOG
 FAP 68 ALT. (IL 23 ALT.)
 SECTION: (99, 100, 37)I
 LASALLE COUNTY
 STA. 569 + 78.5
 DATE 09/12/2005 DRAWN BY RLW

Date: 09/30/2005
 File: c:\projects\main06\cm323\details.dgn

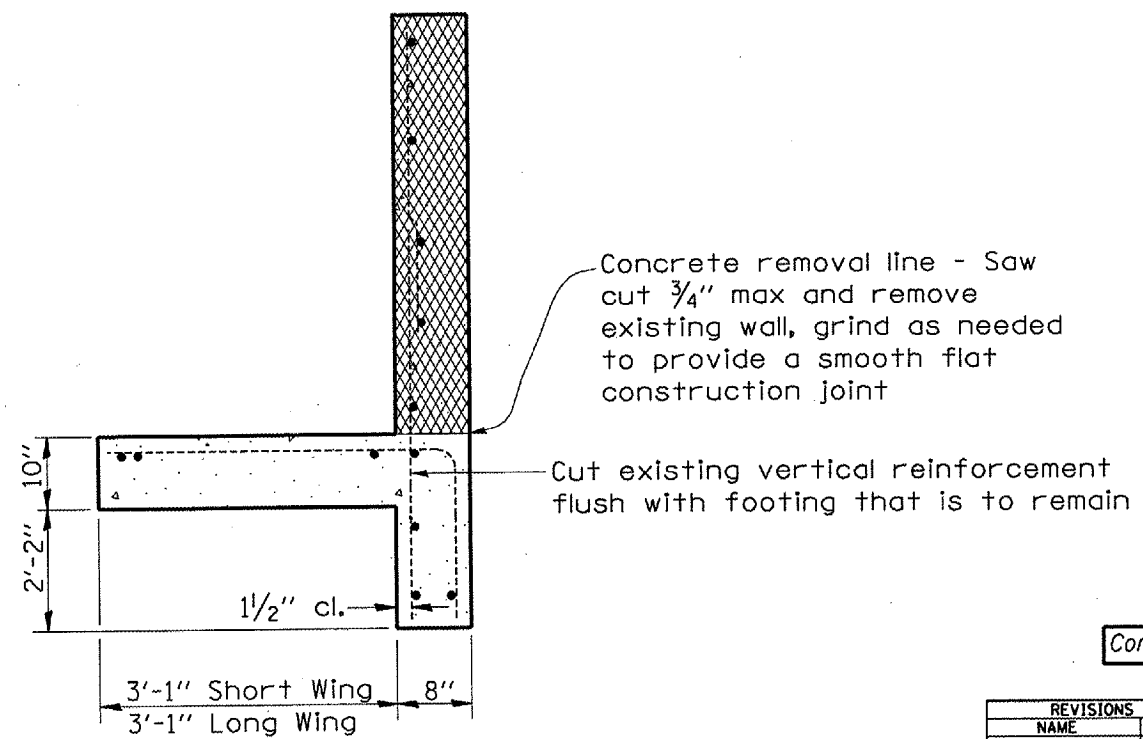
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 371)	LASALLE	9	7



 **Concrete Removal**



CORNER DETAIL
TYP EACH WALL



END VIEW
TYP EACH WALL

BILL OF MATERIAL

Concrete Removal	Cu. Yd.	1.4
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WINGWALL REMOVAL DETAILS

FAP 68 ALT. (IL 23 ALT.)
SECTION: (99, 100, 371)
LASALLE COUNTY
STA. 569+78.5

DATE 09/12/2005 DRAWN BY RLV

Date: 09/30/2005
File: c:\projects\main06\cm323\details.dgn

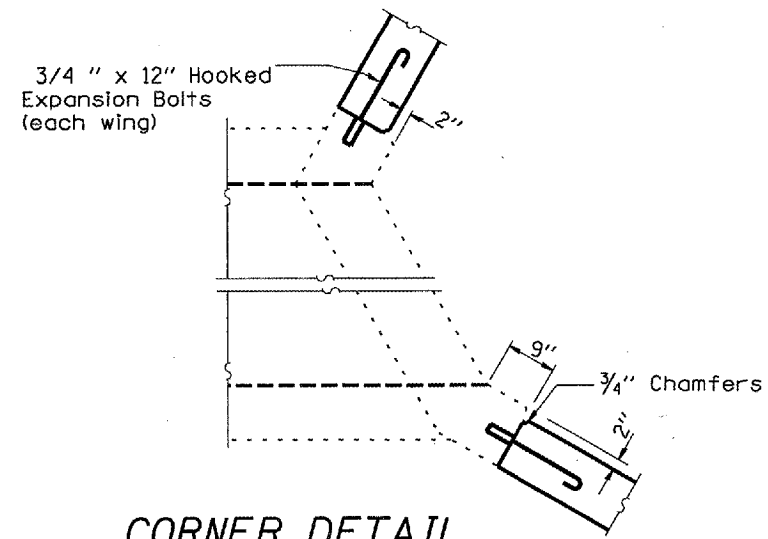
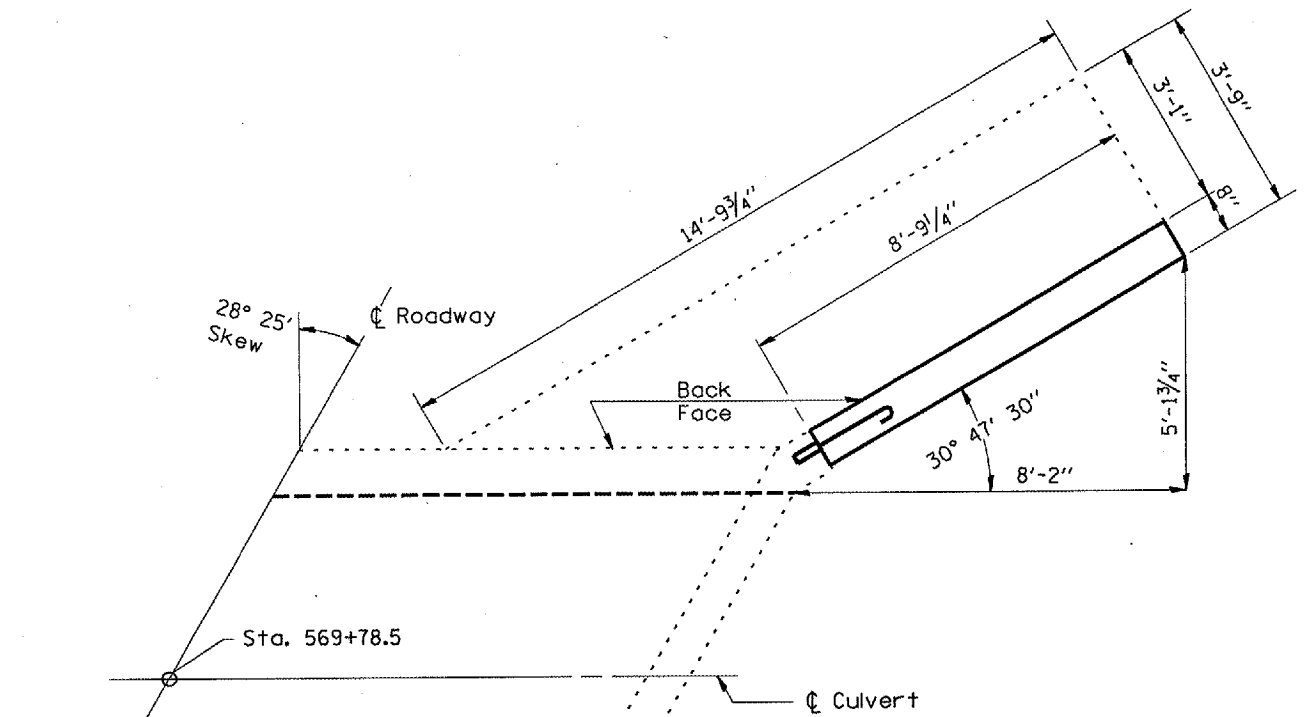
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	(99, 100, 371)	LASALLE	9	8

BILL OF MATERIAL

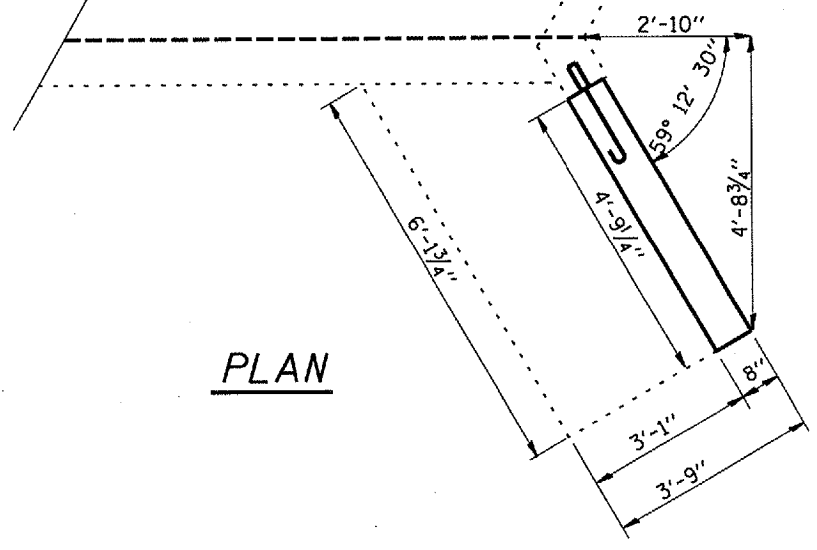
Bar	No.	Size	Length	Shape
h	7	#5	4'-6"	—
h ₁	7	#5	8'-6"	—
v(E)	14	#6	3'-8"	—
v ₁	14	#4	5'-0"	—
Concrete Structures			Cu. Yd.	1.4
Reinforcement Bars, Epoxy Coated			Pound	77
Reinforcement Bars,			Pound	142
3/4" x 12" Expansion Bolts			Each	10

Reinforcement designated (E) shall be Epoxy Coated

*** v₁ bars shall be ordered full length and cut to fit in the field



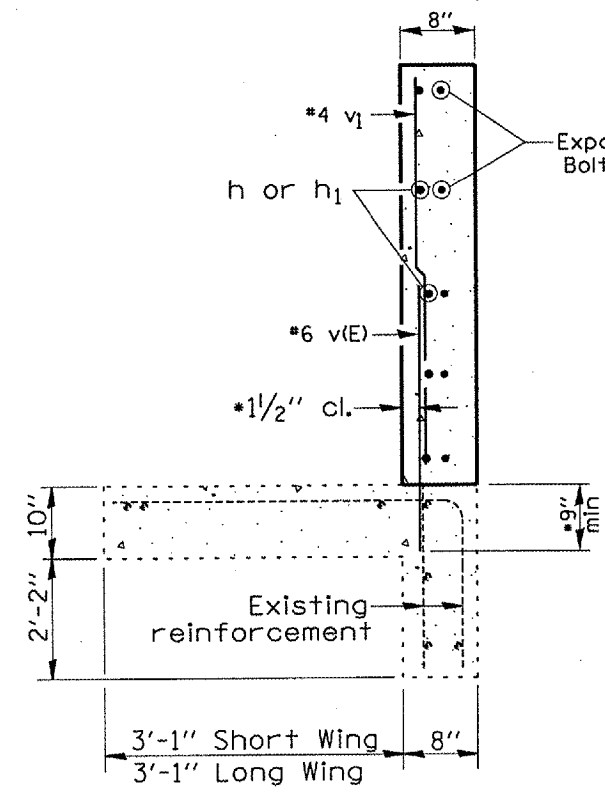
CORNER DETAIL
TYP EACH WALL



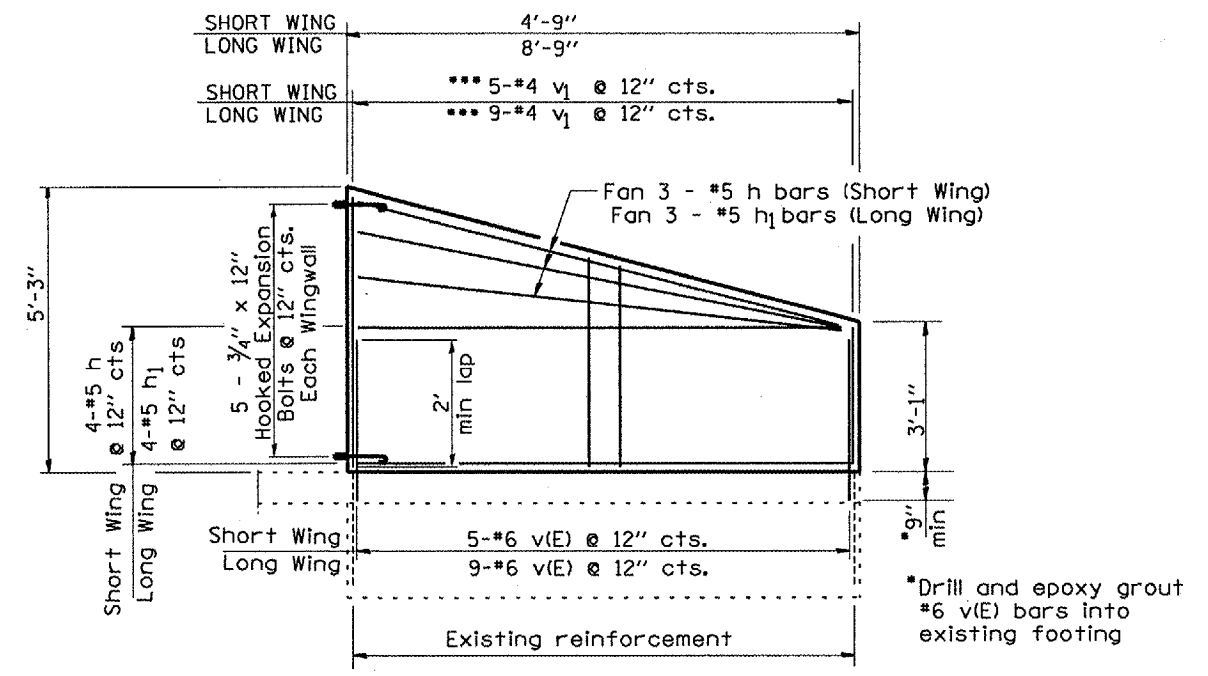
PLAN

DESIGN STRESSES (NEW CONSTRUCTION)

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$



END VIEW
TYP EACH WALL



ELEVATION

*Drill and Epoxy Grout v(E) bars into existing footing

** v(E) bars shall not be placed more than 1/2" cl. from back face of wingwall

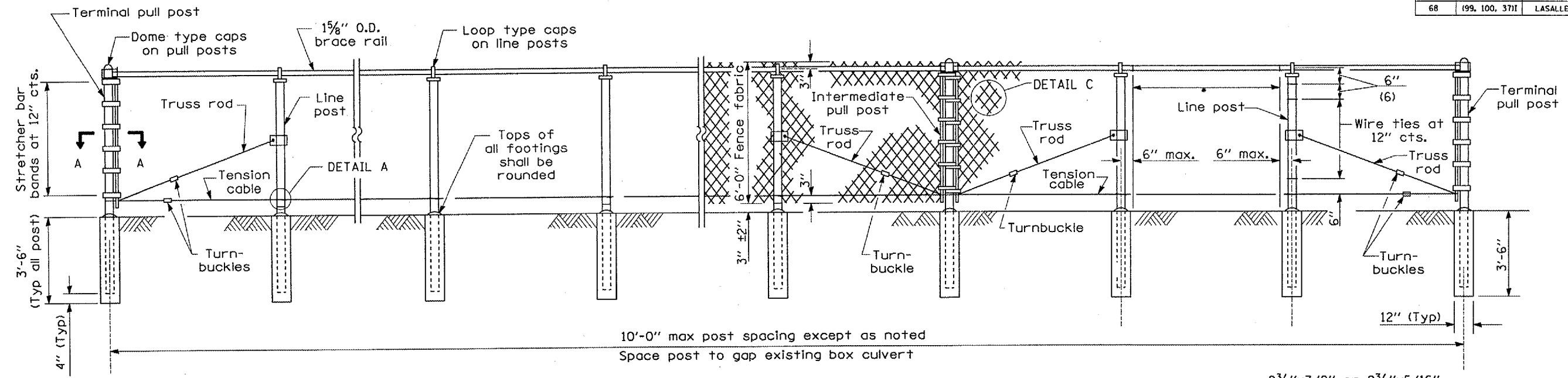
*Drill and epoxy grout #6 v(E) bars into existing footing

REVISIONS	
NAME	DATE

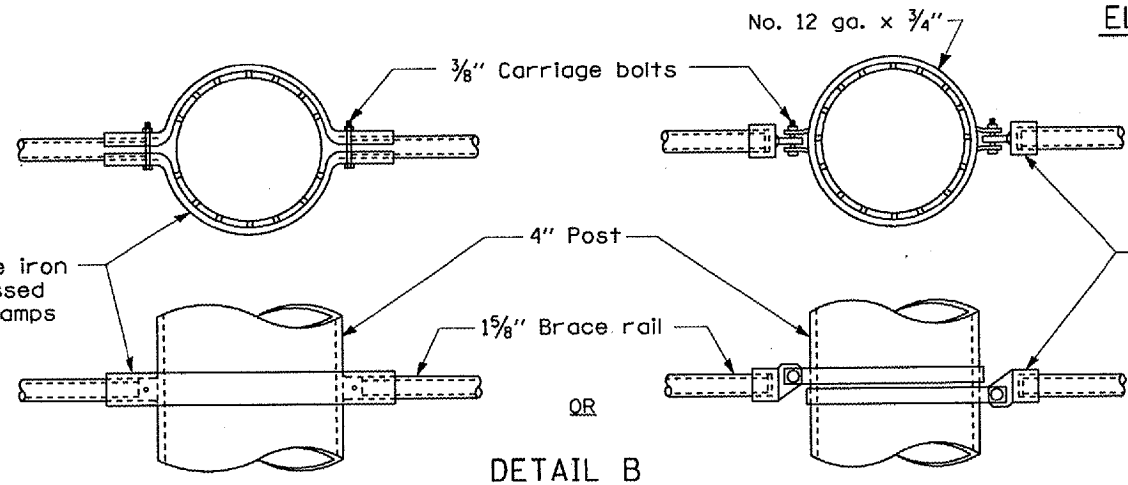
ILLINOIS DEPARTMENT OF TRANSPORTATION
WINGWALL RECONSTRUCTION DETAILS
FAP 68 ALT. (IL 23 ALT.)
SECTION: (99, 100, 371)
LASALLE COUNTY
STA. 569+78.5
DATE 09/12/2005 DRAWN BY RLV

Date: 09/30/2005
File: c:/projects/cmain06/cm323/details.dgn

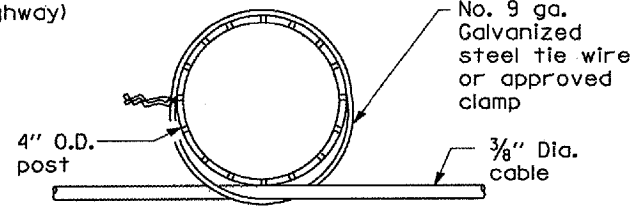
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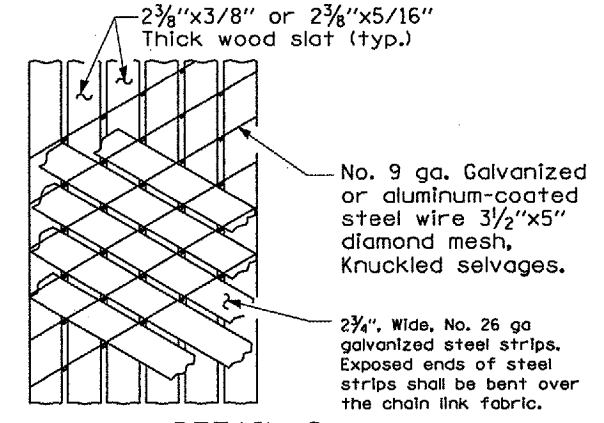
ELEVATION - 6' FENCE
(Looking toward highway)



DETAIL B
(Showing typical method of attaching middle brace rails to posts.)



PLAN
DETAIL A



DETAIL C
(Looking toward highway)

GENERAL NOTES

Loading for wind 80 mph with 30% gust factor.

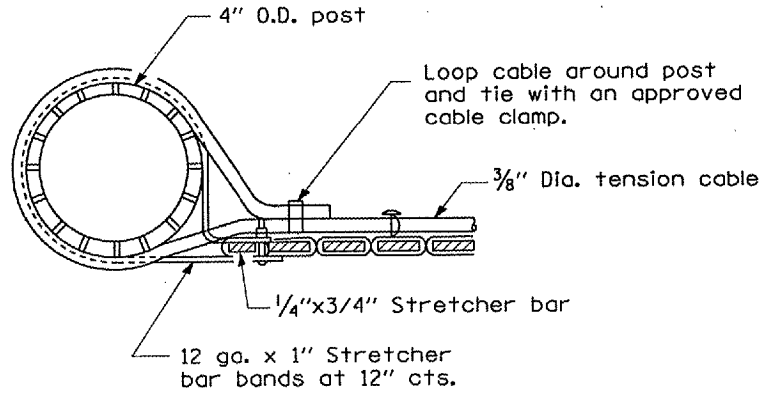
Tension cable shall be provided with one turn buckle between each pair of pull posts.

Fence fabric shall be tied to all line posts, tension cable and brace rails with #9 ga. wire ties at 12" cts.

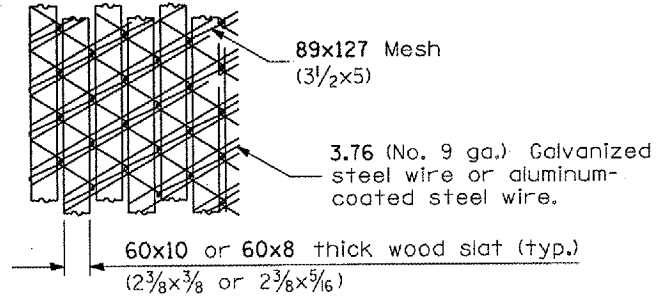
ALLOWABLE STRESSES:
Posts and hardware per AASHTO.
Minimum allowable soil pressure = .25 tsf.

FENCE HEIGHT	POST SECTION (O.D.)	kg/m lbs./ft.
6 ft.	4	9.11

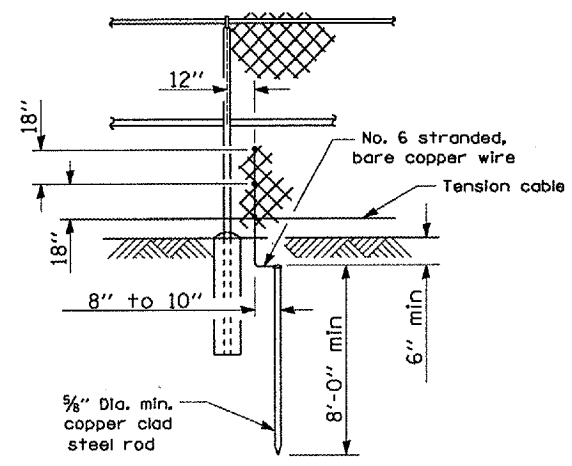
Post sizes other than those shown may be used subject to approval by the Engineer.



SECTION A-A
(Showing method of fastening bottom tension cable and fence fabric to pull posts.)



DETAIL OF FABRIC
(Looking from highway)



PROTECTIVE ELECTRICAL GROUND

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGHT SCREEN CHAIN LINK FENCE DETAILS
FAP 68 ALT. (IL 23 ALT.)
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