

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62998

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN	
			QUANTITY	100% STATE JOOO
20200100	EARTH EXCAVATION	CU YD	471	471
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10	10
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	417	417
25000210	SEEDING, CLASS 2A	ACRE	0.15	0.15
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21	21
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21	21
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21	21
25000800	GROUND PREPARATION FOR SEEDING	ACRE	0.14	0.14
25001800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.08	0.08
25100630	EROSION CONTROL BLANKET	SQ YD	1,086	1,086
42001300	PROTECTIVE COAT	SQ YD	126	126
50300225	CONCRETE STRUCTURES	CU YD	15.2	15.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.5	15.5
50300300	PROTECTIVE COAT	SQ YD	74	74
50300510	RUSTICATION FINISH	SQ FT	203	203
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,990	2,990
60618324	CONCRETE MEDIAN SURFACE, 6" (SPECIAL)	SQ FT	847	847
66400550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	1,856	1,856
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	1,996	1,996
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	499	499
X0324640	FLUTED KNEE WALL	FOOT	1,811	1,811
X2500322	SEEDING, CLASS 5A (MODIFIED)	ACRE	0.08	0.08
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	196	196
70104800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
X0325891	IMPACT ATTENUATORS (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 2	EACH	2	2
Z0076600	TRAINERS	HOUR		
44002300	CURB REMOVAL (PARTIAL)	FOOT	137	137

INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES / INDEX / HIGHWAY STANDARDS
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-9	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
10-16	EXISTING AND PROPOSED KNEE WALL PLANS
17-21A	STRUCTURAL DETAILS
22	BD-51 DISTRICT 1, BENCHING DETAIL FOR EMBANKMENT WIDENING
23	TC-10 DISTRICT 1, TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
24	TC-17 DISTRICT 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
25	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
26	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN
27-38	CROSS SECTIONS

IDOT HIGHWAY STANDARDS

SHEET	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
664001-01	CHAIN LINK FENCE
701601-05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, for speeds < 45 mph
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
728001	TELESCOPING STEEL SIGN SUPPORT
731001	BASE FOR TELESCOPING STEEL SIGN SUPPORT

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Rev. 6-2-08

Rev.

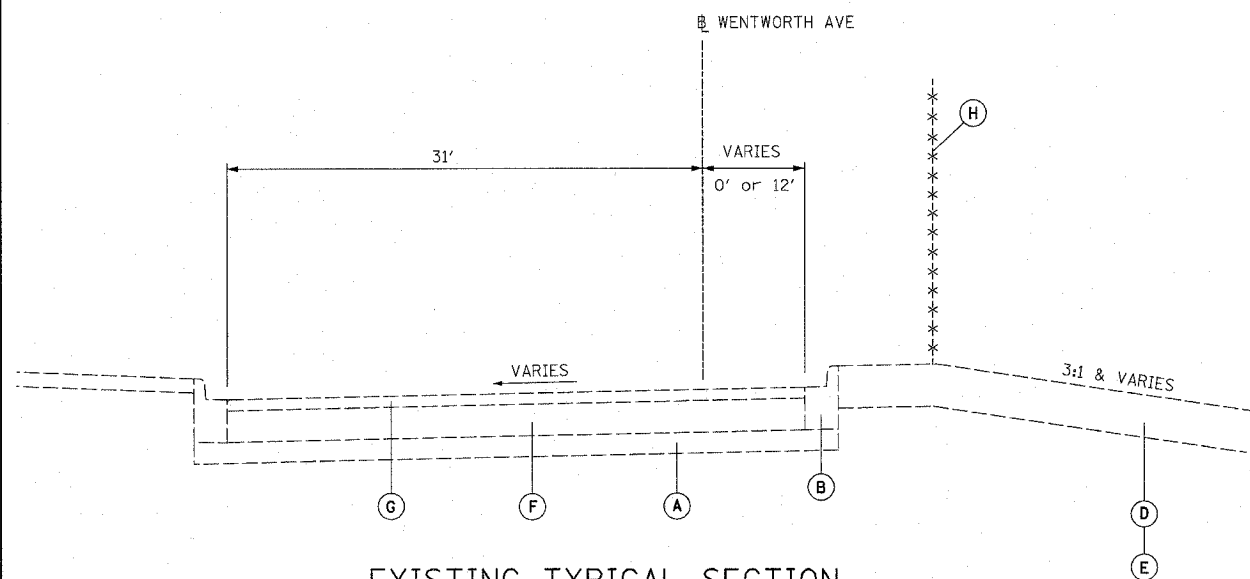
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)
SUMMARY OF QUANTITIES
INDEX OF SHEETS
HIGHWAY STANDARDS
SCALE: NONE
DATE: 02/08/08
DRAWN BY: JDC
CHECKED BY: DDM

S00-1

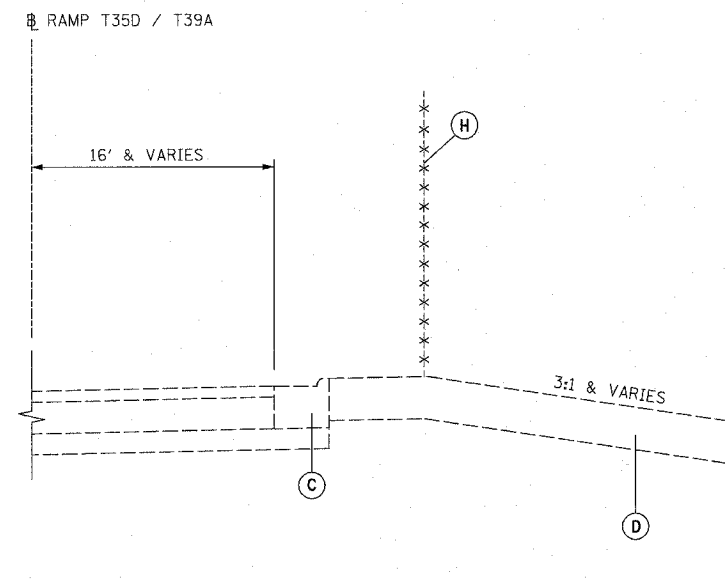
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998	• (2323.6-2P&2324.6-1P)1-3			



EXISTING TYPICAL SECTION

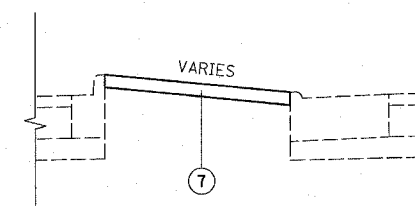
STA. 102+52 to 111+56
 STA. 113+96 to 116+66
 STA. 118+49 to 120+23
 STA. 124+01 to 126+04



STA. 7040+98 to 113+96
 STA. 116+66 to 5027+36

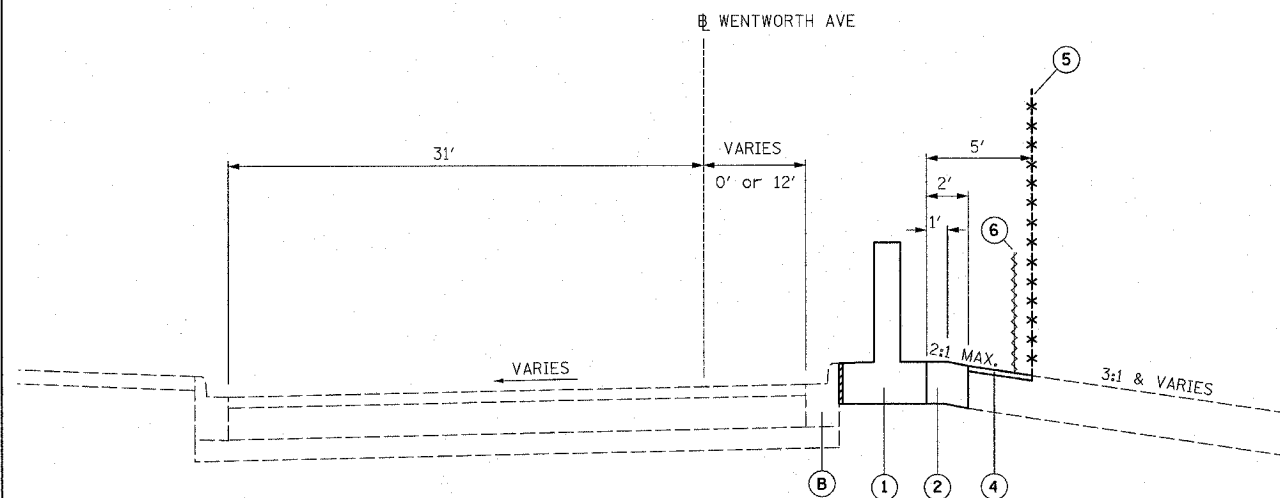
EXISTING LEGEND

- (A) GRANULAR MATERIAL, 6"
- (B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (D) TOPSOIL, 4"
- (E) TOPSOIL, 12"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (G) BITUMINOUS CONCRETE, 3"
- (H) CHAIN LINK FENCE, 4'



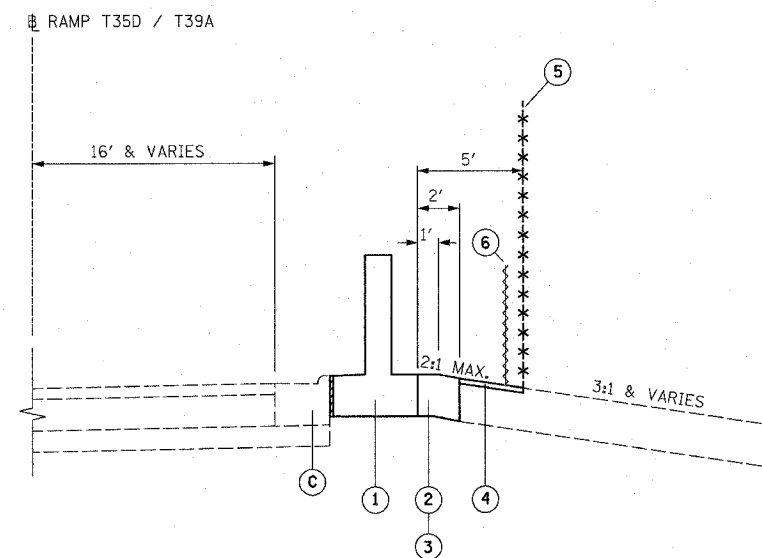
TYPICAL MEDIAN TREATMENT

STA. 111+13 to 111+74.22
 STA. 5026+95 to 5027+54



PROPOSED TYPICAL SECTION

STA. 102+52 to 111+56
 STA. 113+96 to 116+66
 STA. 118+49 to 120+23
 STA. 124+01 to 126+04



STA. 7040+98 to 113+96
 STA. 116+66 to 5027+36

PROPOSED LEGEND

- (1) FLUTED KNEE WALL
- (2) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- (3) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- (4) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- (5) CHAIN LINK FENCE, 4' (SPECIAL)
- (6) SEDIMENT CONTROL, SILT FENCE (TO BE REMOVED AT PROJECT COMPLETION)
- (7) CONCRETE MEDIAN SURFACE, 6" (SPECIAL)

NOTES:

- THICKNESS OF EXISTING PAVEMENT AND GRANULAR MATERIAL ARE TAKEN FROM RECORD DRAWING PLANS.
- TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)
NAME	DATE	
REVISION	3-6-08	
REVISION	5-30-08	

TYPICAL SECTIONS

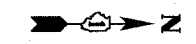
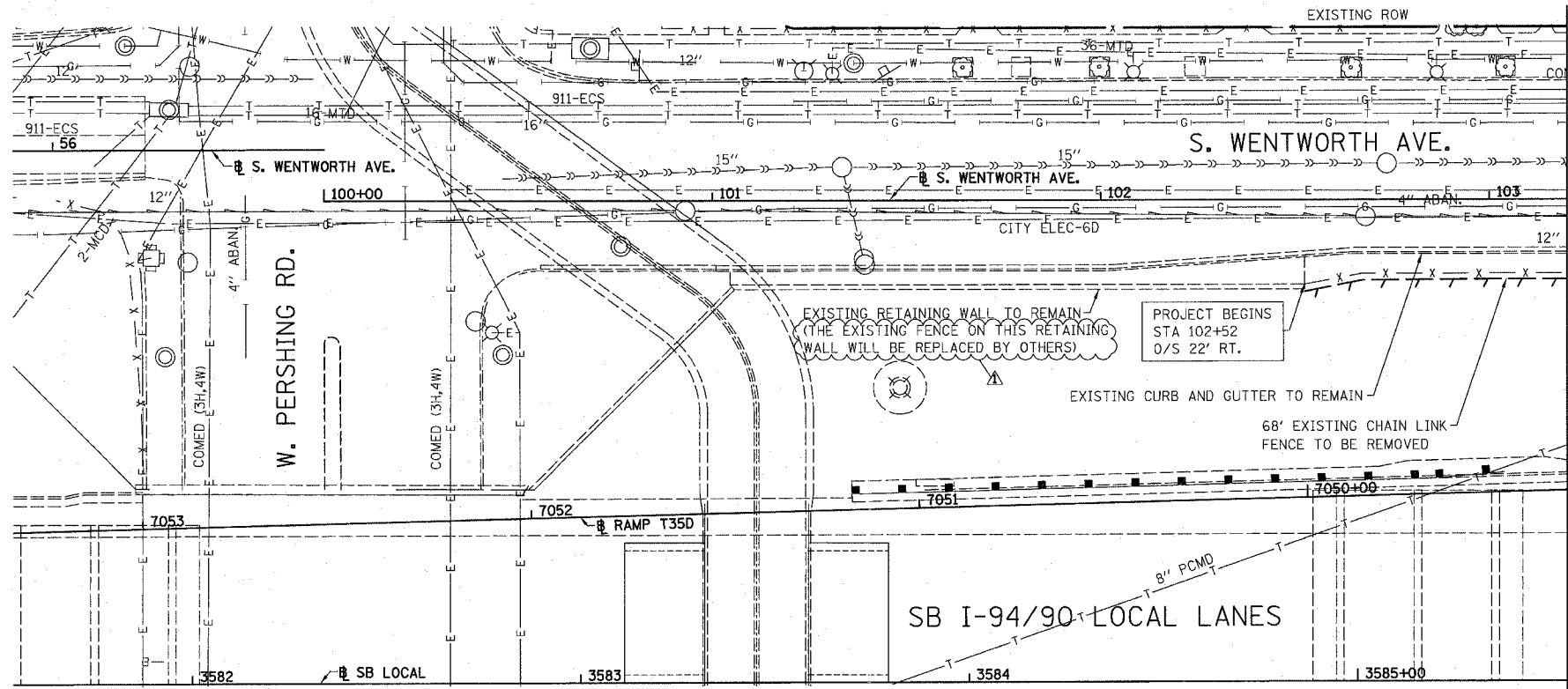
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DRAWN BY: JDC
 CHECKED BY: RS

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45544 7/4 5/25/2008

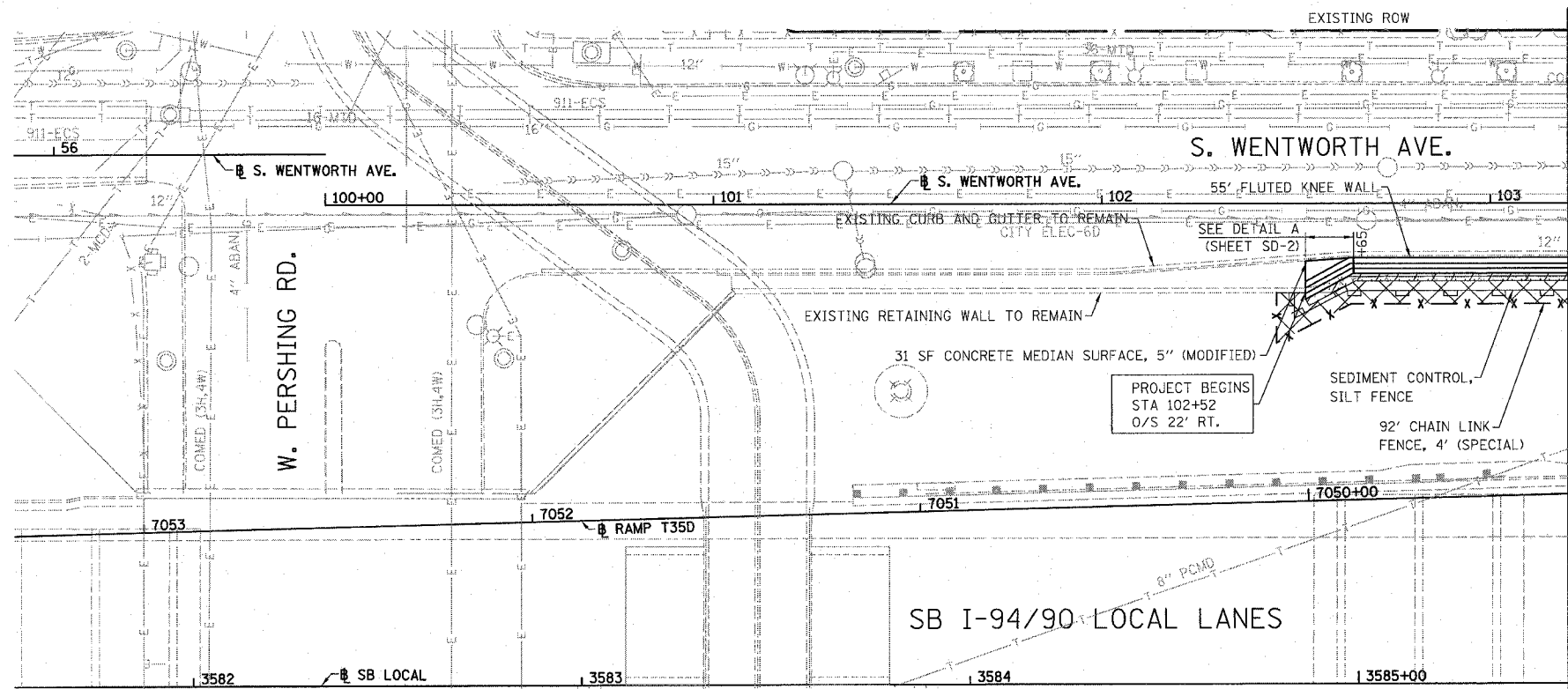
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998		• (2323.6-2P&2324.6-1P)1-3		



LEGEND:
 LINEAR REMOVALS

MATCH LINE STA 103+20

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

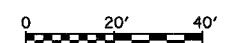


LEGEND:

- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



REVISIONS	
NAME	DATE
REVISOR	3-6-08
REVISOR	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

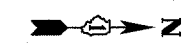
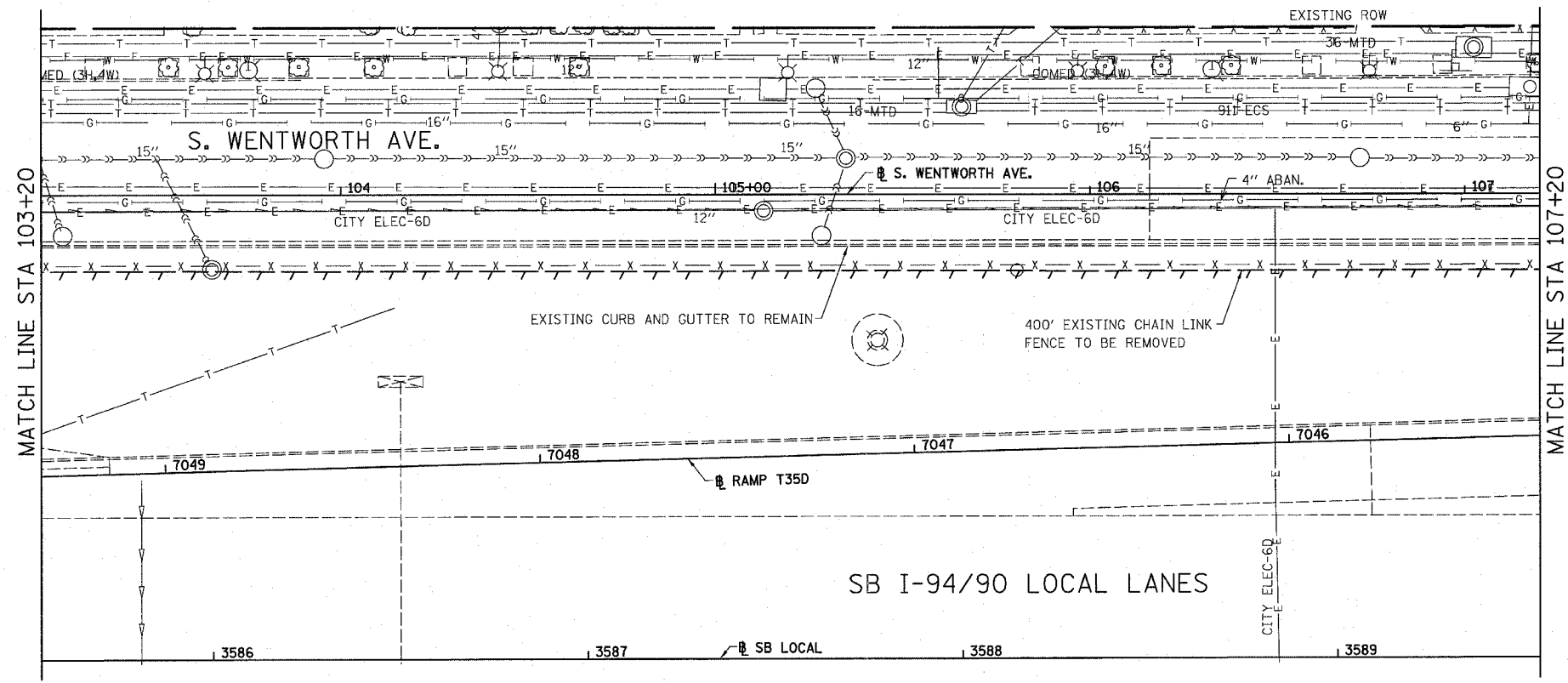
EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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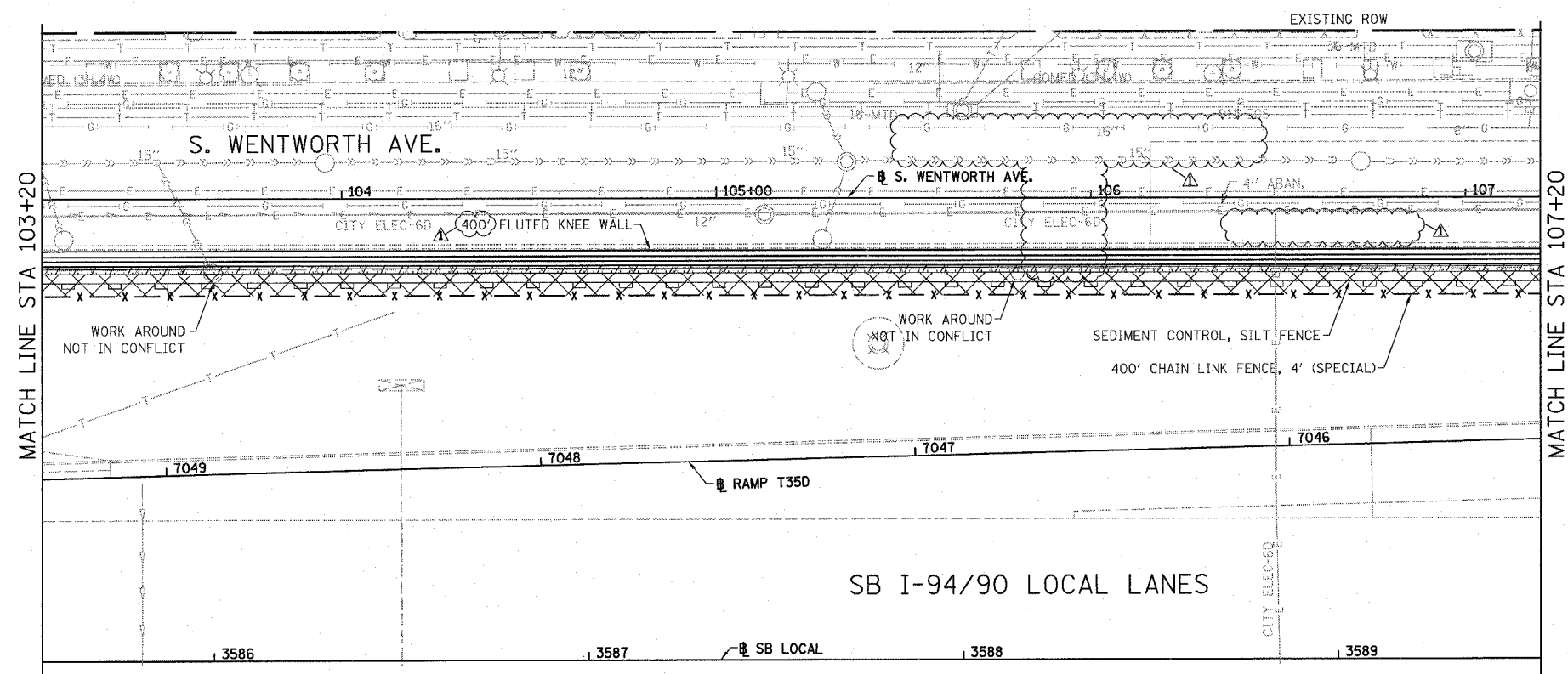
445550 PL-1 5/28/2008

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998		• (2323.6-2P&2324.6-1P)-3		



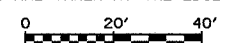
LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



- LEGEND:
- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 4"
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EROSION CONTROL BLANKET
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SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

- NOTES:
- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
 - ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



PL-2

REVISIONS	
NAME	DATE
REVISOR	3-6-08
REVISOR	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

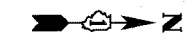
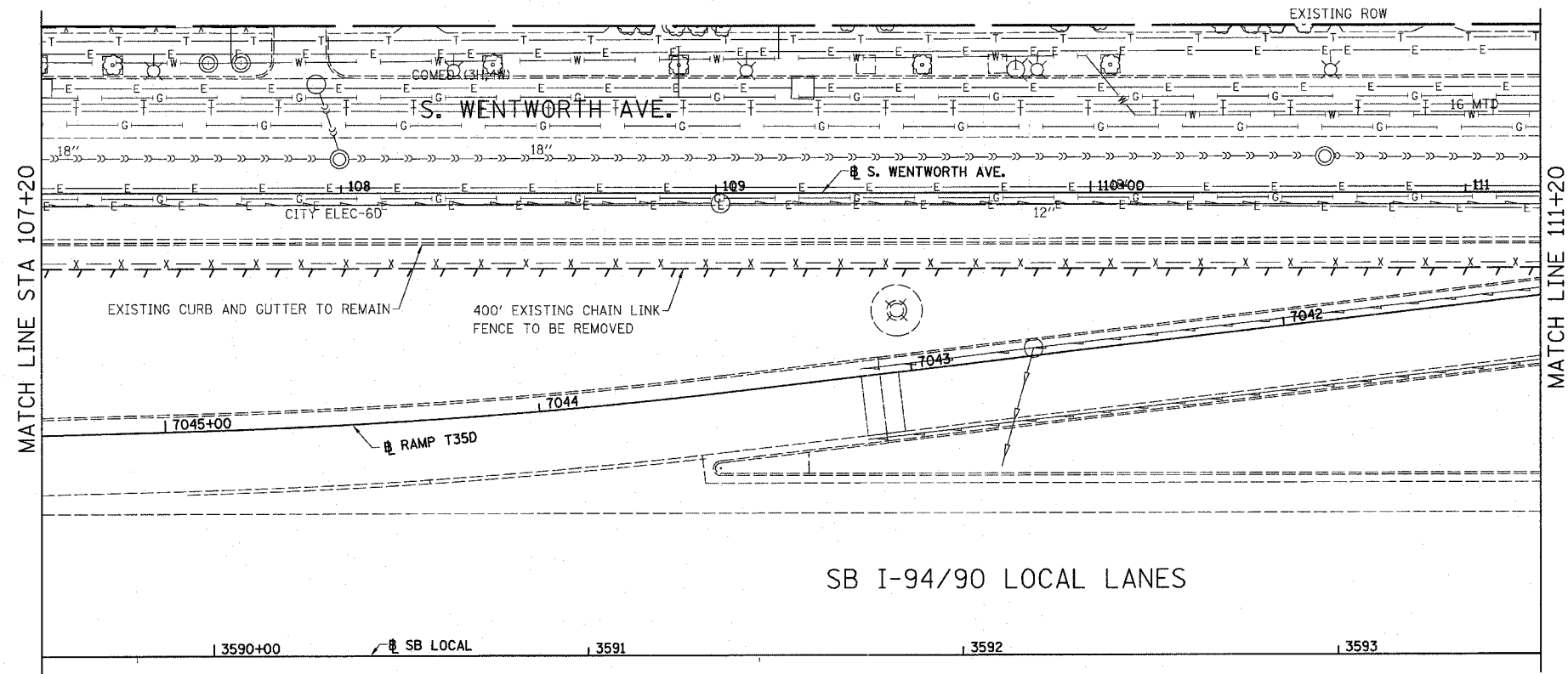
EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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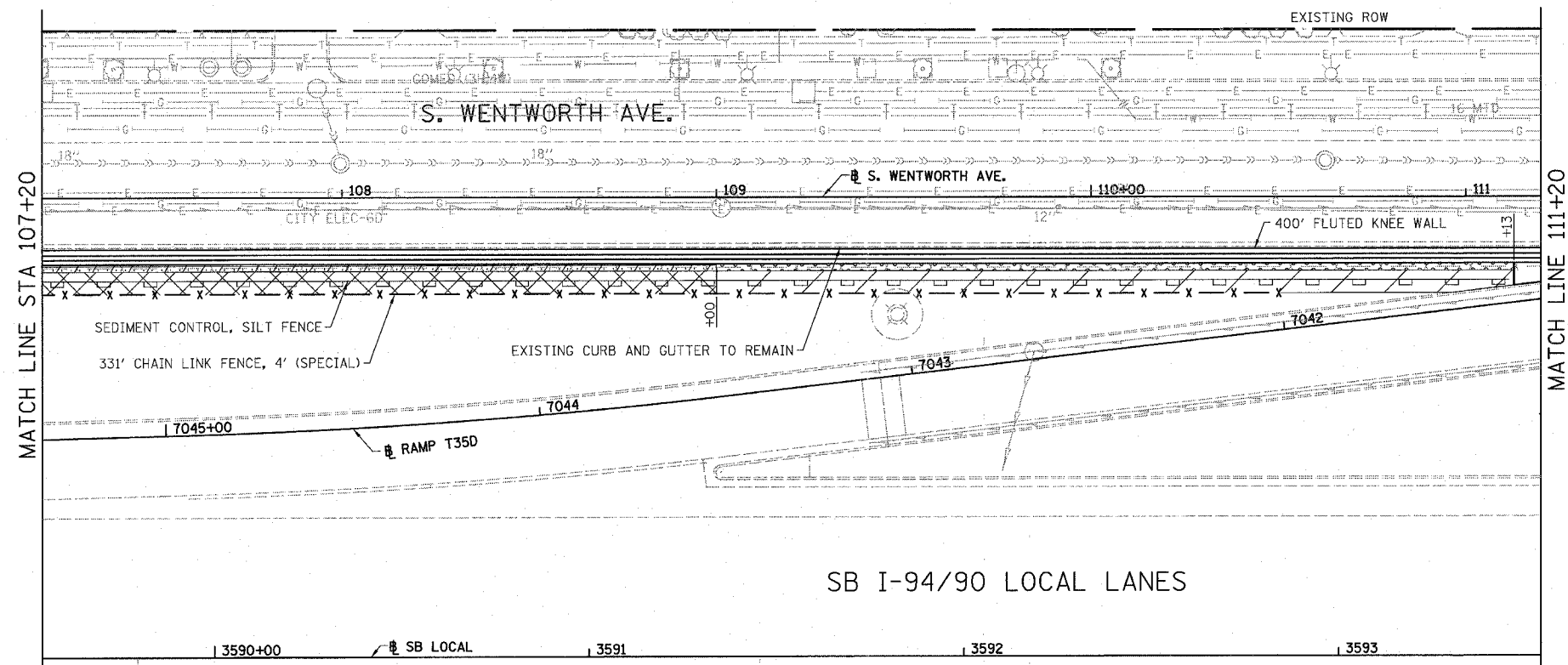
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998	• (2323.6-2P&2324.6-1P)I-3			



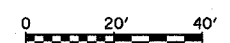
LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



- LEGEND:
- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
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EROSION CONTROL BLANKET
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SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

- NOTES:
- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
 - ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



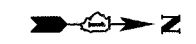
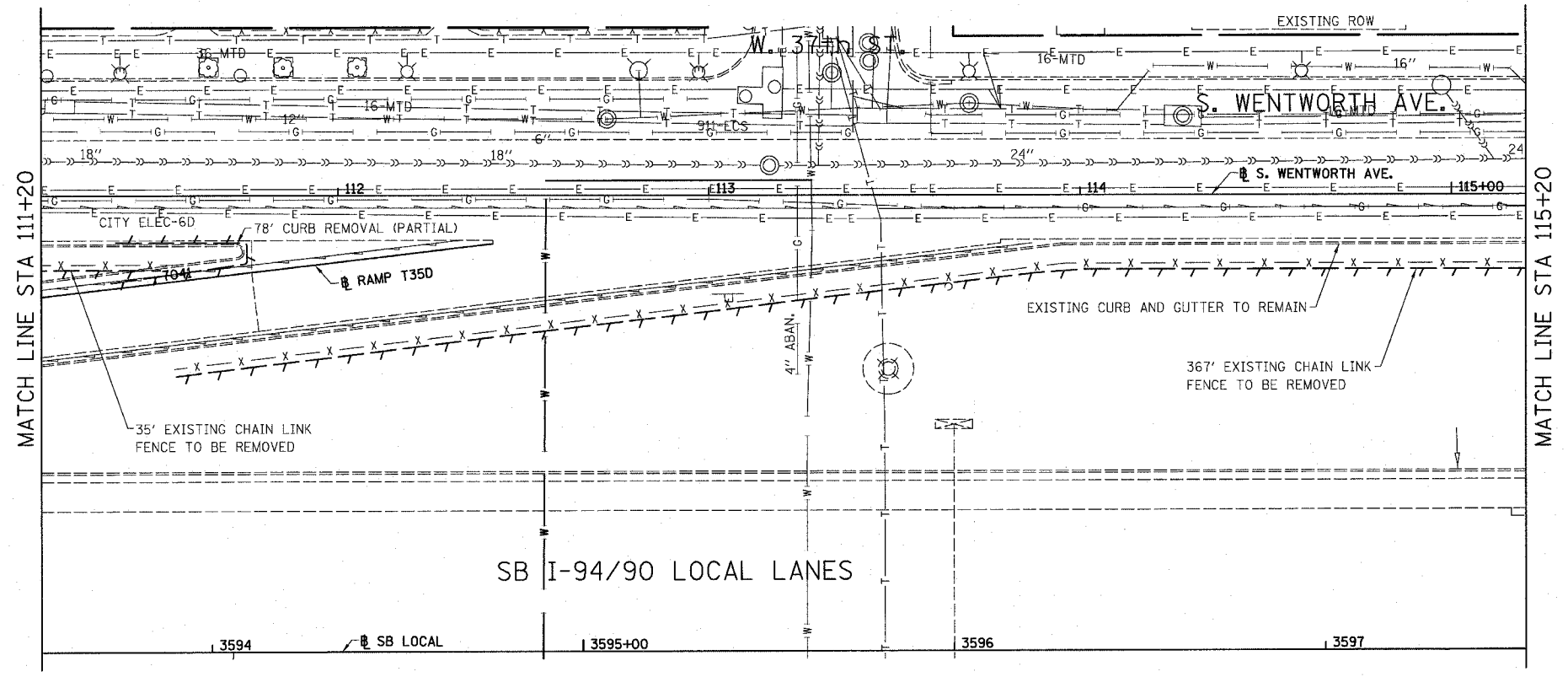
REVISIONS	
NAME	DATE
REVISOR	3-6-08
REVISOR	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)
 EXISTING AND PROPOSED
 KNEE WALL PLANS
 SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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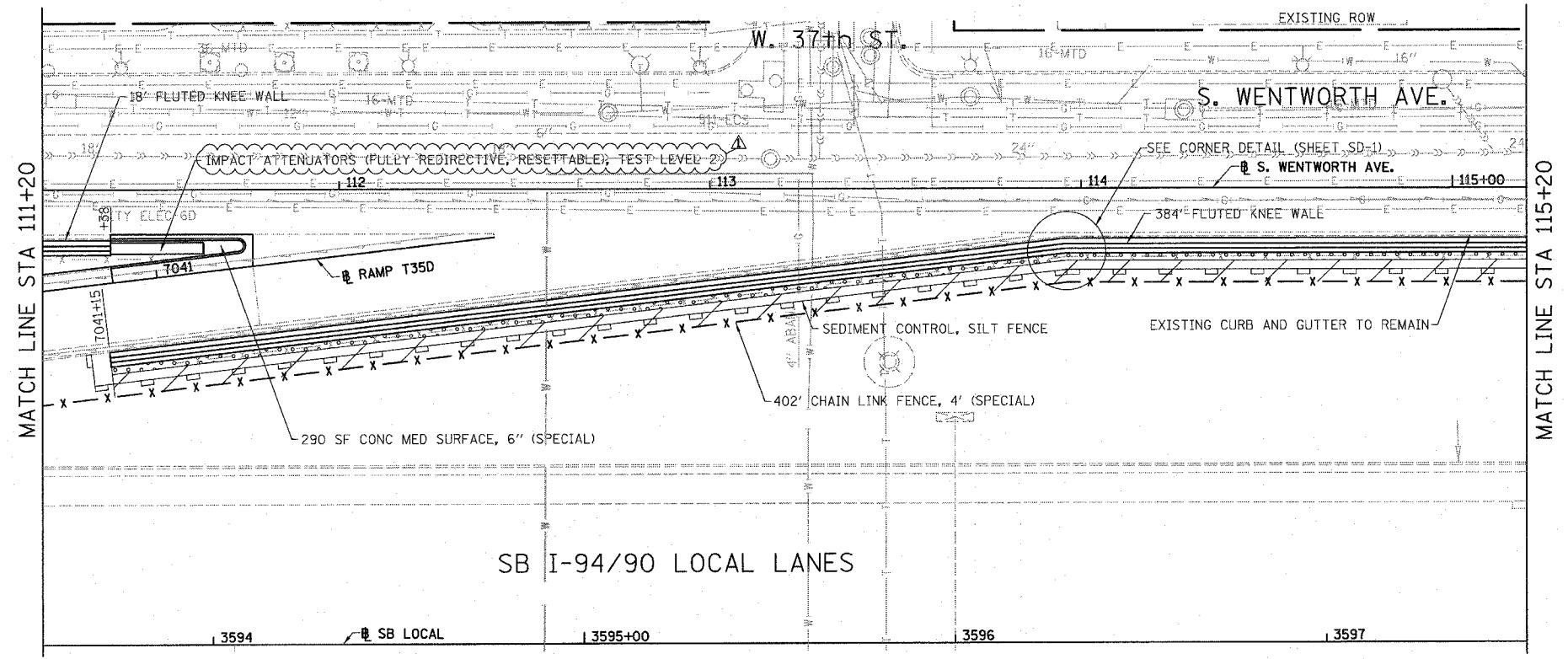
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998		• (2323.6-2P&2324.6-1P)-3		



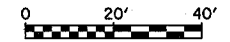
LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



- LEGEND:
- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
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SEEDING CLASS 5A (MODIFIED)
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SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

- NOTES:
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 - ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



PL-4

REVISIONS	
NAME	DATE
REVISOR	3-6-08
REVISOR	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

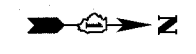
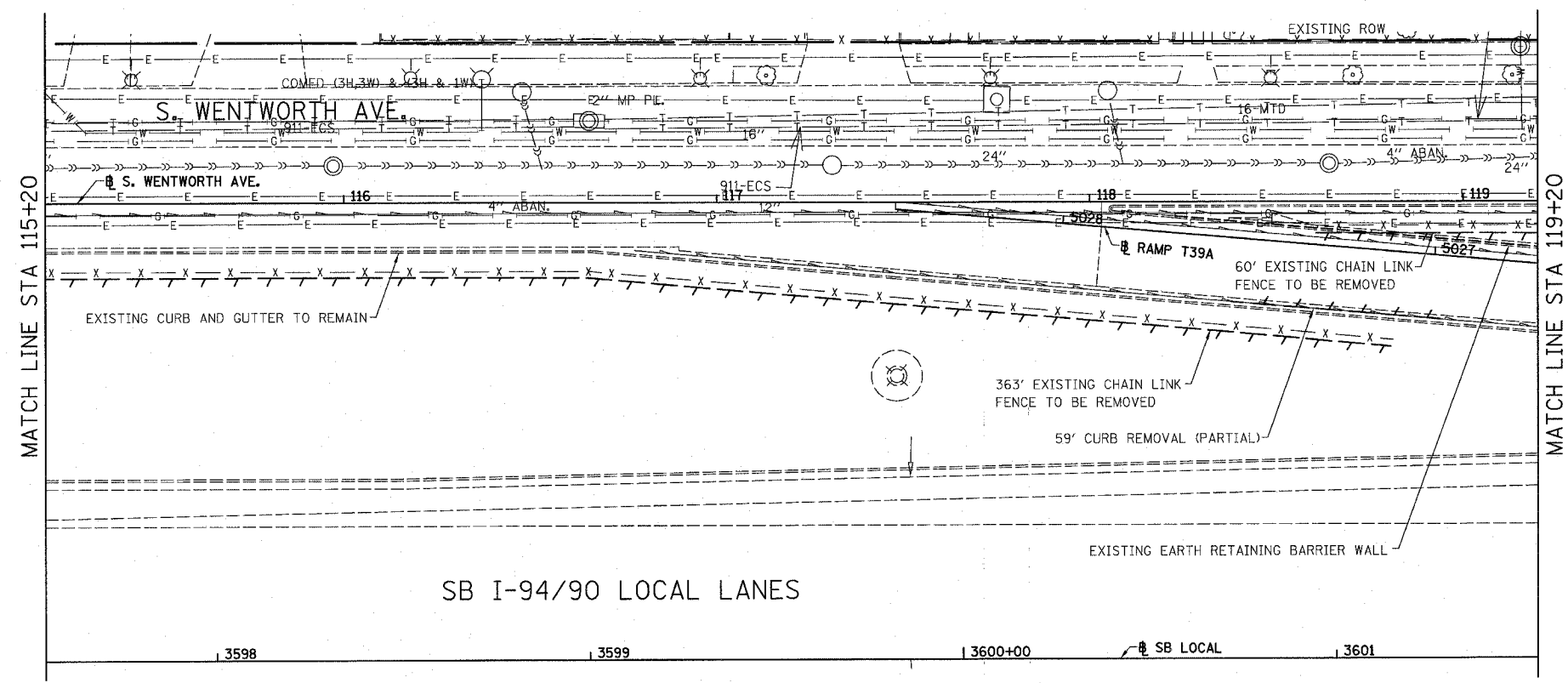
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 DATE: 03/06/08

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 CHECKED BY: DDM

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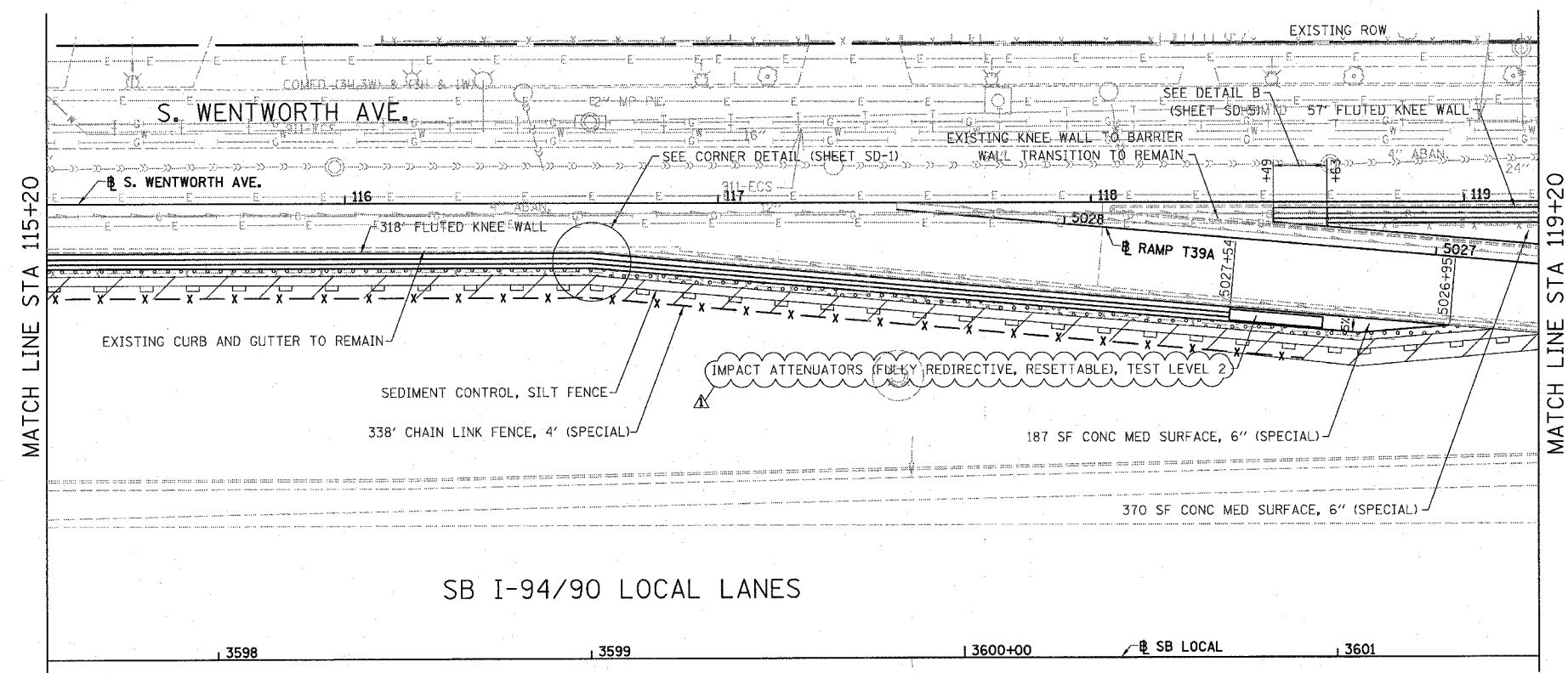
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62998	• (2323.6-2P&2324.6-1P)I-3			



LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

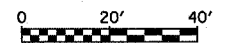


LEGEND:

- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED)
- SEEDING CLASS 5A (MODIFIED)
- EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
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- TOPSOIL FURNISH AND PLACE, 12"
- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
- SEEDING CLASS 4 (MODIFIED)
- SEEDING, CLASS 5A (MODIFIED)
- EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



REVISIONS	
NAME	DATE
REVISED	3-6-08
REVISED	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

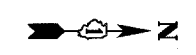
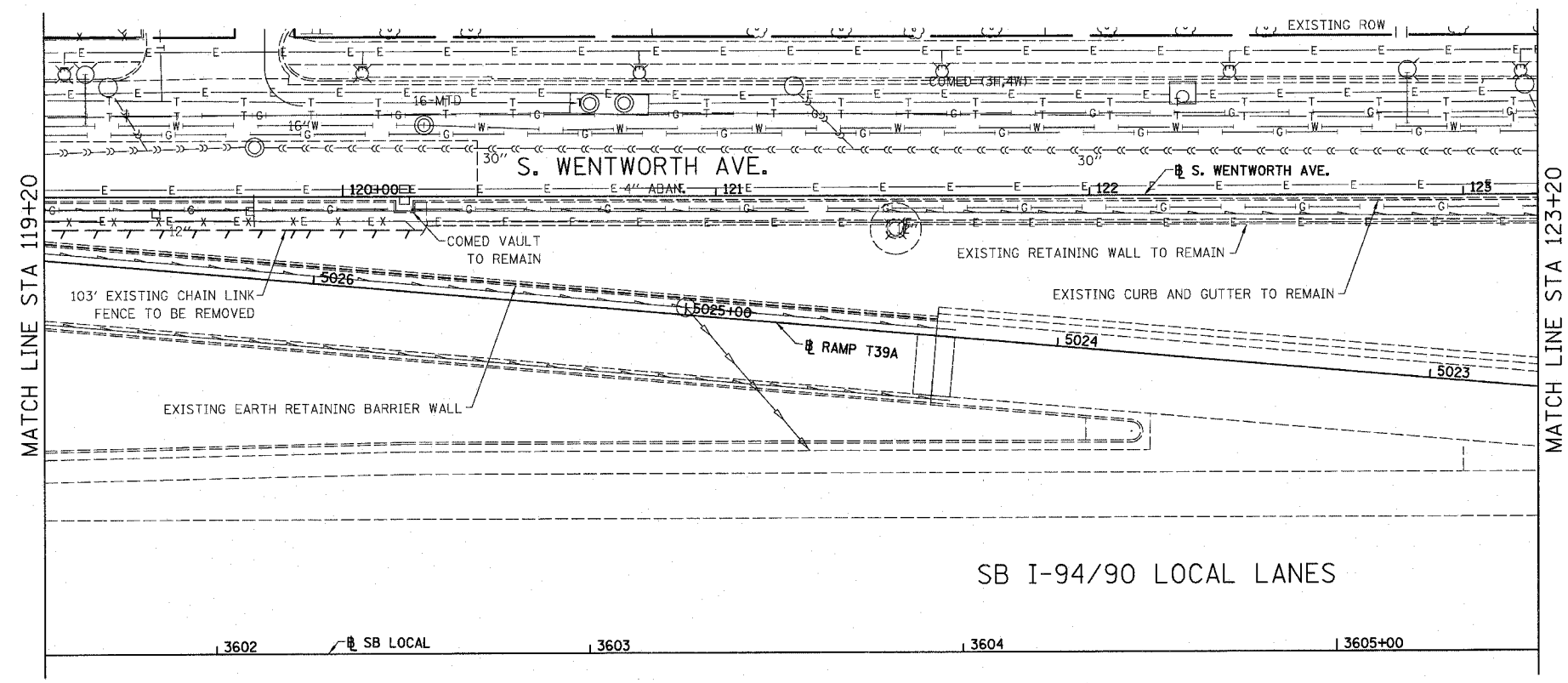
EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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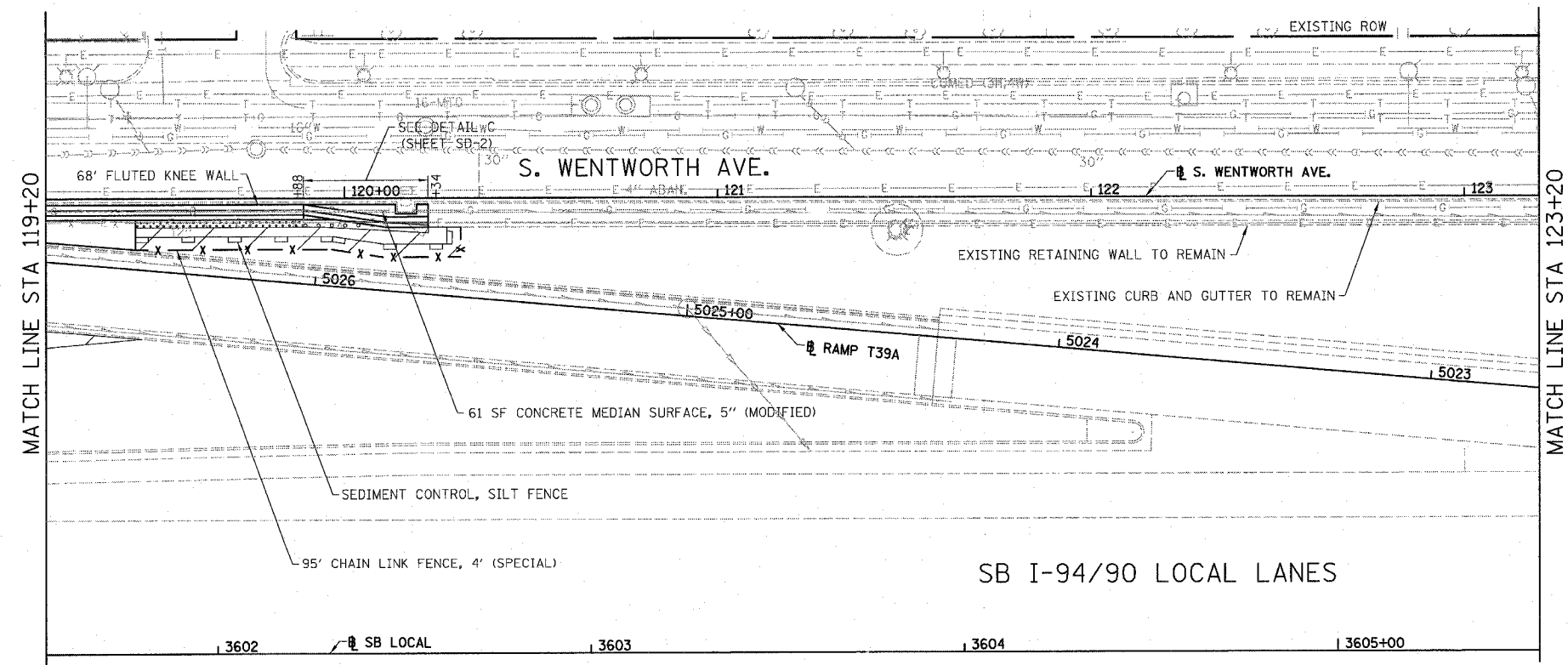
PL-5
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998		• (2323.6-2P&2324.6-1P11-3		



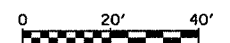
LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



- LEGEND:
- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - SEEDING, CLASS 4 (MODIFIED)
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EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
 - TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

- NOTES:
- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
 - ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



PL-6

REVISIONS	
NAME	DATE
REVISED	3-6-08
REVISED	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

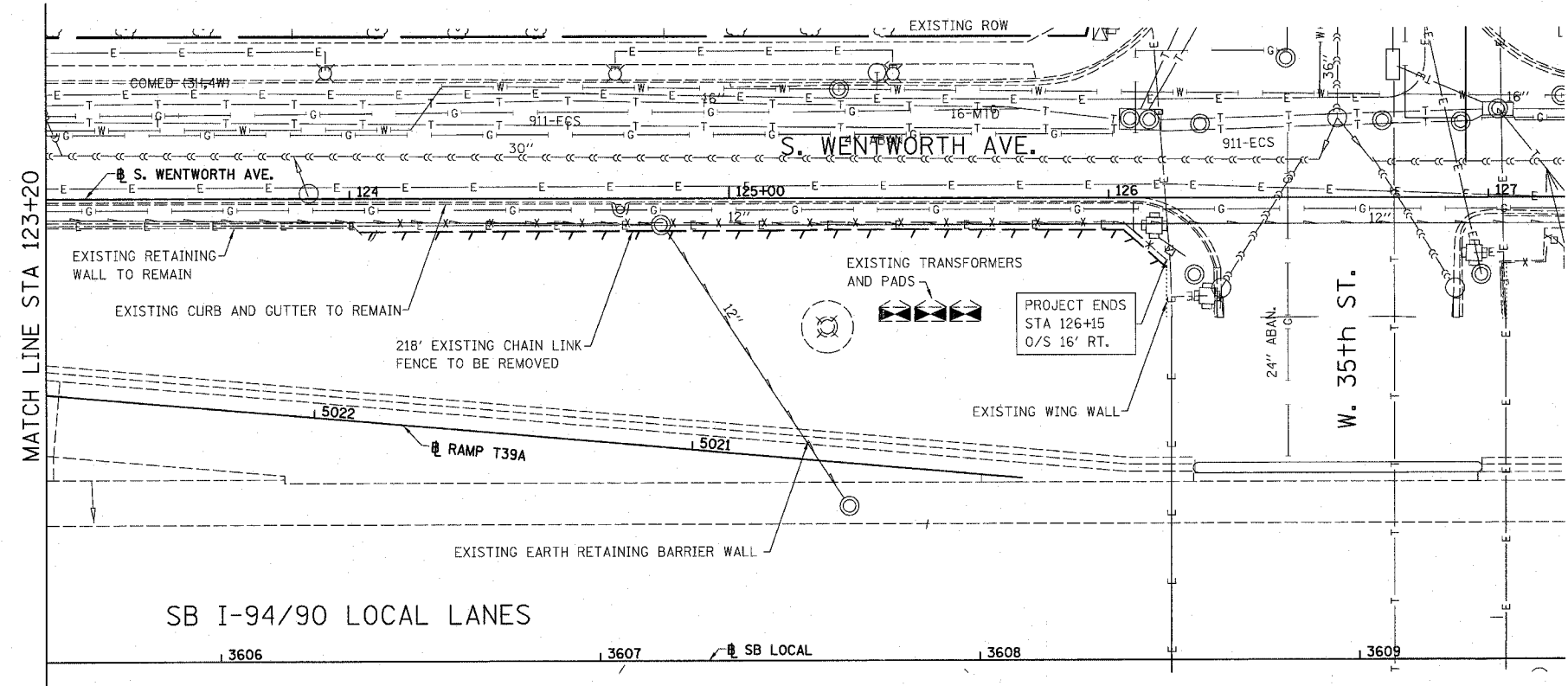
EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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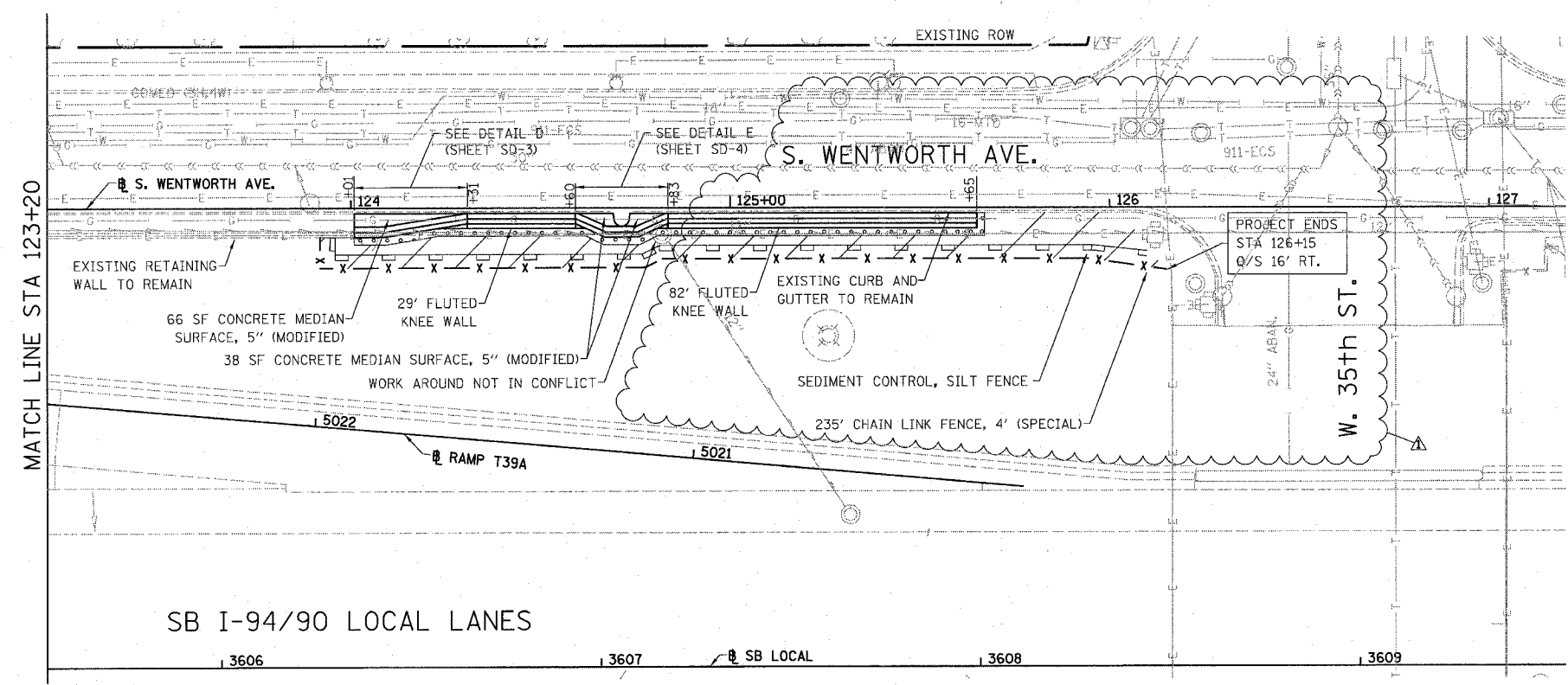
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998	• (2323.6-2P&2324.6-1P)I-3			



LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

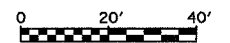


LEGEND:

- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



REVISIONS	
NAME	DATE
REVISED	3-6-08
REVISED	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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 PL-7
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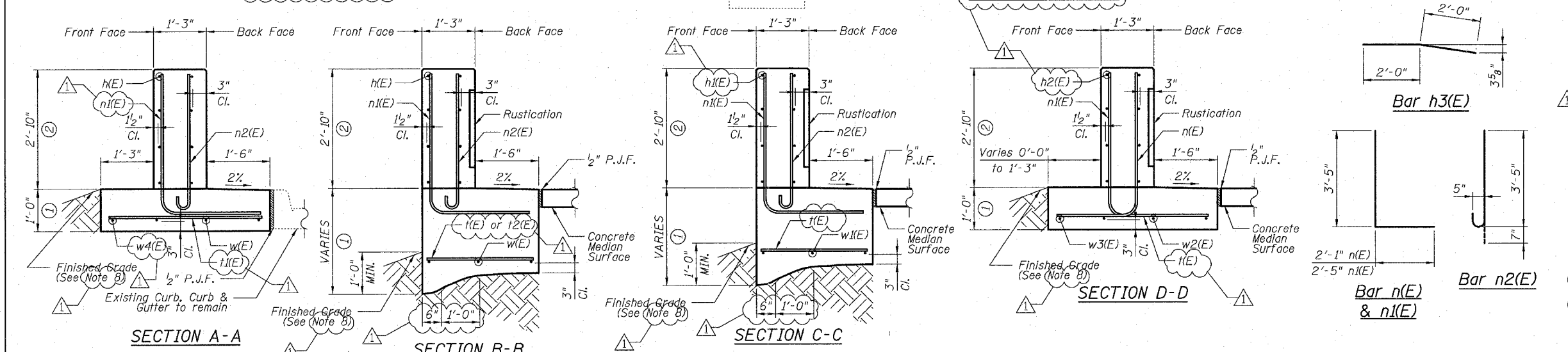
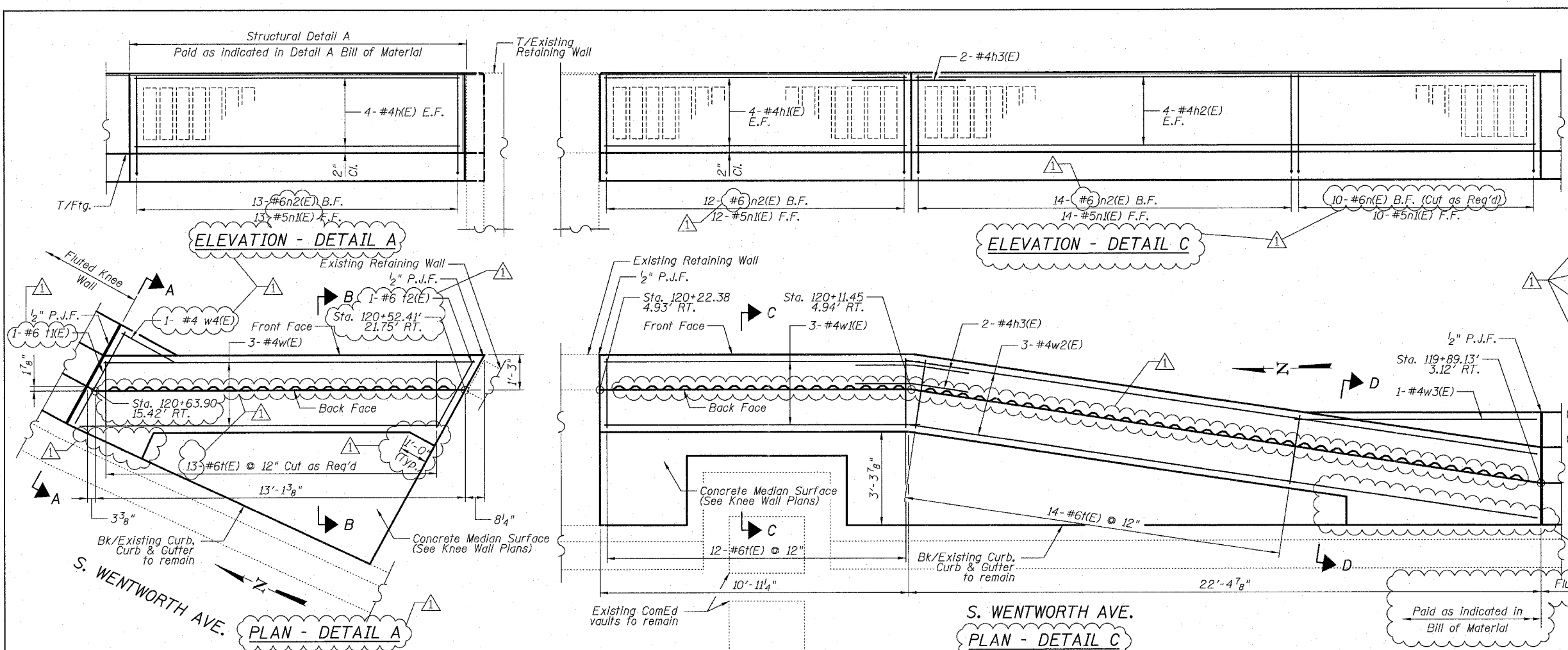
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	COOK		38	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62998	(2323.6-2P&2324.6-1)PI-3			

DETAIL A REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	12'-9"	—
n(E)	13	#5	5'-10"	L
n2(E)	13	#6	4'-0"	—
t(E)	13	#6	2'-5"	—
t1(E)	1	#6	3'-8"	—
t2(E)	1	#6	2'-7"	—
w(E)	3	#4	13'-1"	—
w4(E)	1	#4	2'-6"	—
Item				
Unit				
Qty.				
① Concrete Structures	Cu. Yd.	1.5		
② Concrete Superstructure	Cu. Yd.	1.8		
Reinforcement Bars, Epoxy Coated	Pound	310		
Rustication Finish	Sq. Ft.	23		
Protective Coat	Sq. Yd.	9		

DETAIL C REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	10'-9"	—
h2(E)	8	#4	22'-1"	—
h3(E)	2	#4	4'-0"	—
n(E)	10	#6	5'-6"	L
n1(E)	36	#5	5'-10"	L
n2(E)	26	#6	4'-0"	—
t(E)	26	#6	2'-5"	—
w1(E)	3	#4	10'-9"	—
w2(E)	3	#4	22'-1"	—
w3(E)	1	#4	8'-6"	—
Item				
Unit				
Qty.				
① Concrete Structures	Cu. Yd.	4.2		
② Concrete Superstructure	Cu. Yd.	4.4		
Reinforcement Bars, Epoxy Coated	Pound	810		
Rustication Finish	Sq. Ft.	58		
Protective Coat	Sq. Yd.	21		



NOTES:

- All stations and offsets measured from S. Wentworth Ave. \square .
- Concrete: $f'c = 3500$ psi
- Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details
- At locations where Fluted Knee Wall abuts a rigid structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- Apply Protective Coat to top and back face of stem and top of Frontage Road side of Foundation.
- For Fluted Knee Wall standard details, see Sheet SD-1
- B.F. = Back Face
F.F. = Front Face
E.F. = Each Face
- Shape finished grade as required to match existing conditions.
- P.J.F. included in cost of Concrete Structures.

REVISIONS	
NAME	DATE
REVISED	3-6-08
ADDENDUM 1	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

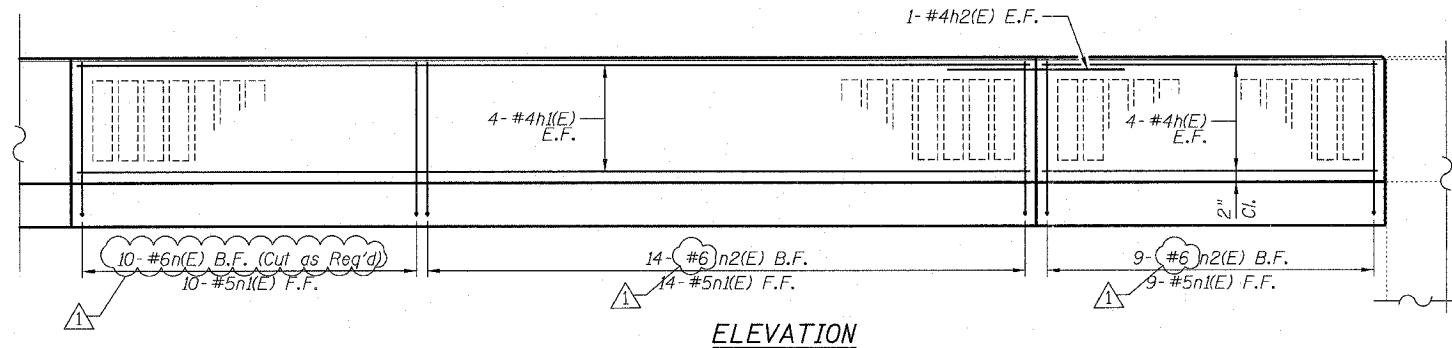
DETAIL A & DETAIL C

SCALE: N.T.S. DATE: 03/06/08
 DRAWN BY: PAH CHECKED BY: BLU

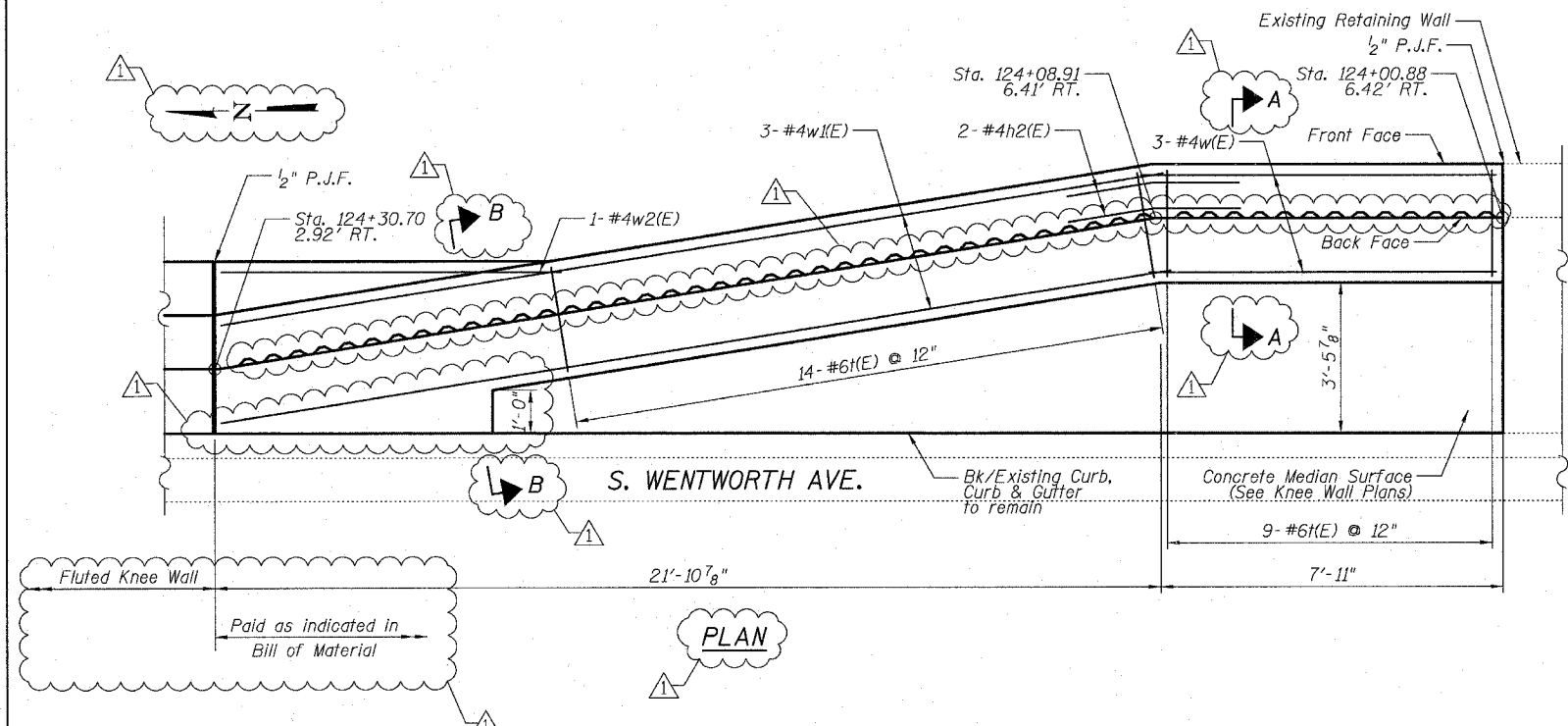
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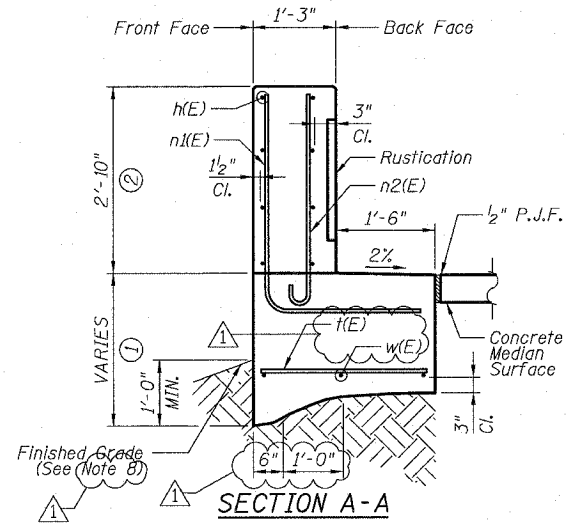
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	38	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998	• (2323.6-2P&2324.6-1P)I-3			



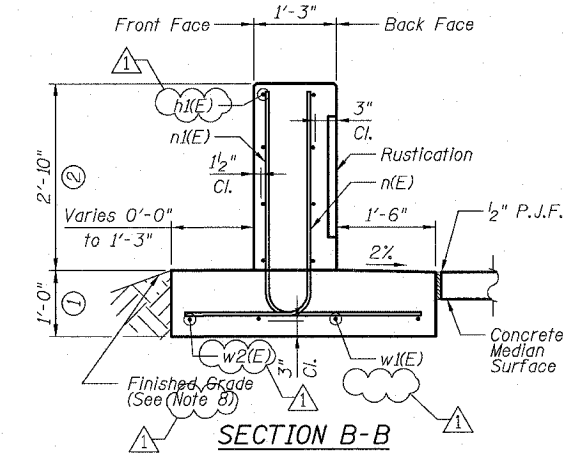
ELEVATION



PLAN



SECTION A-A



SECTION B-B

DETAIL D REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	8'-0"	—
h2(E)	2	#4	4'-0"	—
n(E)	10	#6	5'-6"	L
n2(E)	23	#6	4'-0"	—
w(E)	3	#4	8'-0"	—
w2(E)	1	#4	7'-10"	—

Item	Unit	Qty.
① Concrete Structures	Cu. Yd.	4.2
② Concrete Superstructure	Cu. Yd.	4.0
Reinforcement Bars, Epoxy Coated	Pound	740
Rustication Finish	Sq. Ft.	56
Protective Coat	Sq. Yd.	19

NOTES:

- All stations and offsets measured from S. Wentworth Ave. \bar{B} .
- Concrete: $f'c = 3500$ psi
- Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details
- At locations where Fluted Knee Wall abuts a rigid structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- Apply Protective Coat to top and back face of stem and top of Frontage Road side of foundation.
- For Fluted Knee Wall standard details, see Sheet SD-1
- B.F. = Back Face
F.F. = Front Face
E.F. = Each Face
- Shape finished grade as required to match existing conditions.
- P.J.F. included in cost of concrete structures.

SHEET SD-3

REVISIONS	
NAME	DATE
REVISOR	3-6-08
ADDENDUM 1	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

DETAIL D

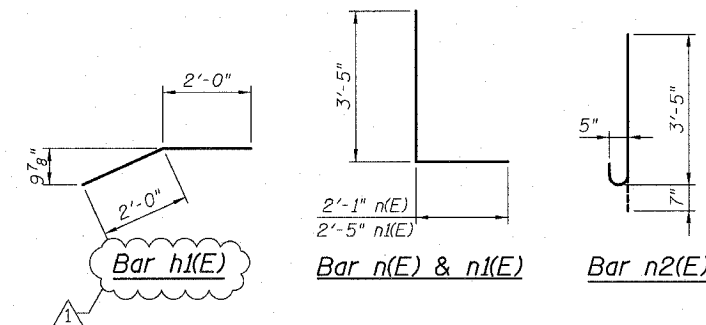
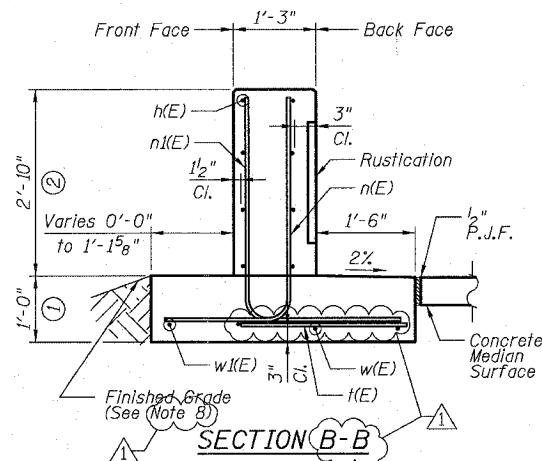
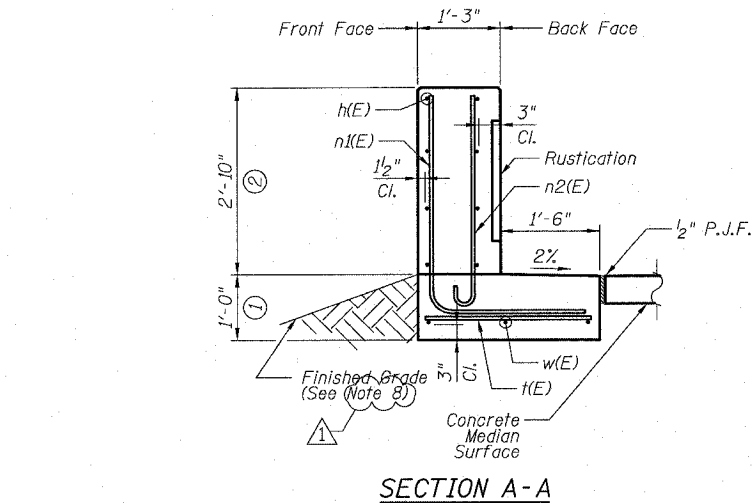
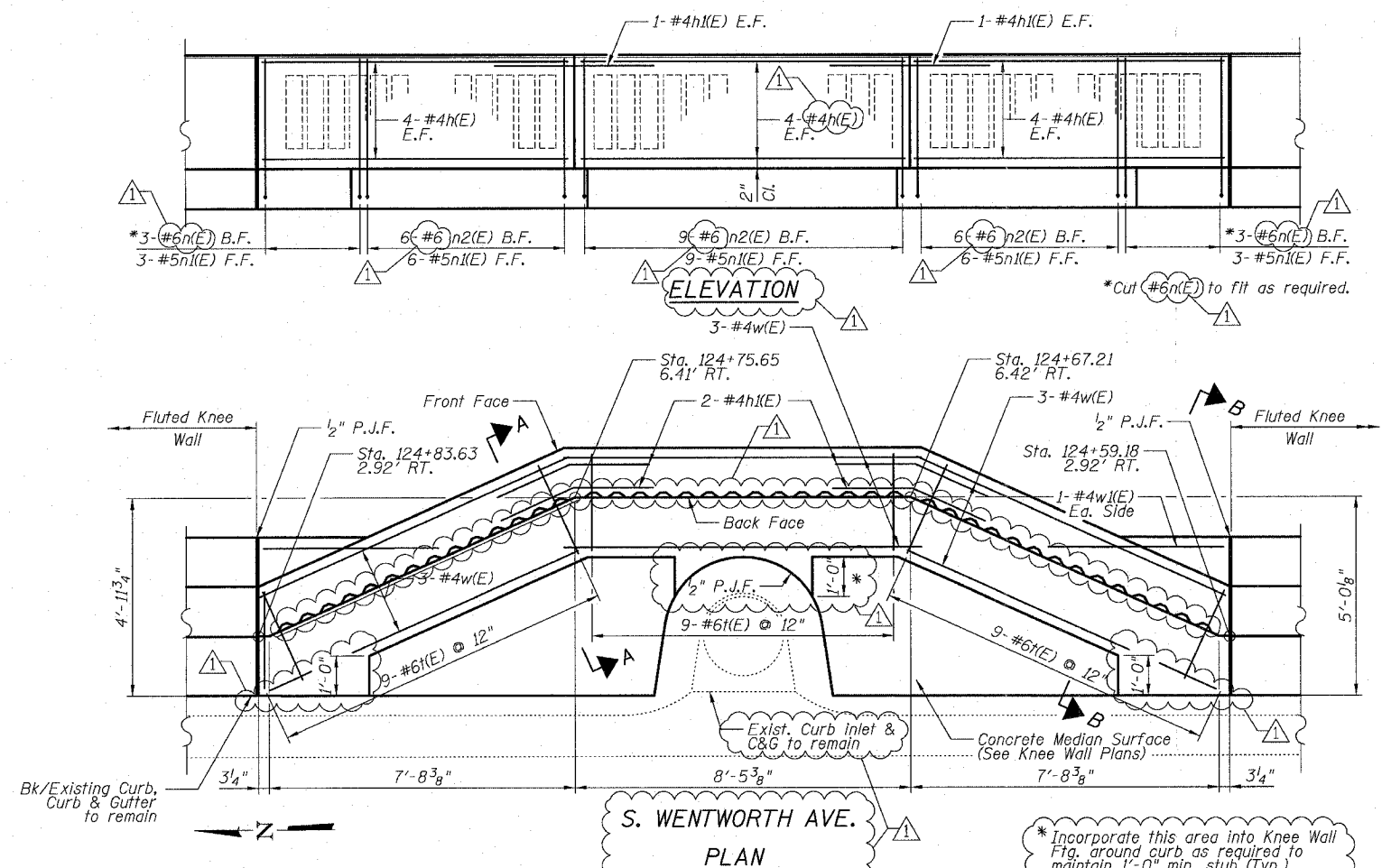
SCALE: N.T.S. DRAWN BY: LAM
DATE: 03/06/08 CHECKED BY: BLU

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62998	• (2323.6-2P&2324.6-1P)I-3			

DETAIL E REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n(E)	24	#4	9'-0"	—
h(E)	4	#4	4'-0"	—
n(E)	6	#6	5'-6"	L
n1(E)	27	#5	5'-10"	L
n2(E)	21	#6	4'-0"	—
t(E)	27	#6	2'-5"	—
w(E)	9	#4	9'-0"	—
w1(E)	2	#4	4'-6"	—
Item	Unit	Qty.		
① Concrete Structures	Cu. Yd.	2.9		
② Concrete Superstructure	Cu. Yd.	3.4		
Reinforcement Bars, Epoxy Coated	Pound	660		
Rustication Finish	Sq. Ft.	41		
Protective Coat	Sq. Yd.	16		



NOTES:

- All stations and offsets measured from S. Wentworth Ave. @.
- Concrete: $f'c = 3500$ psi
- Provide California Finish on top of Foundation between stem and Frontage Road. See Roadway Details
- At locations where Fluted Knee Wall abuts a rigid Structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- Apply Protective Coat to top and back Face of stem and top of Frontage Road side of Foundation.
- For Fluted Knee Wall standard details, see Sheet SD-1
- B.F. = Back Face
F.F. = Front Face
E.F. = Each Face
- Shape finished grade as required to match existing conditions.
- P.J.F. included in cost of concrete structures.

SHEET SD-4

REVISIONS	
NAME	DATE
REVISOR	3-6-08
ADDENDUM 1	5-30-08

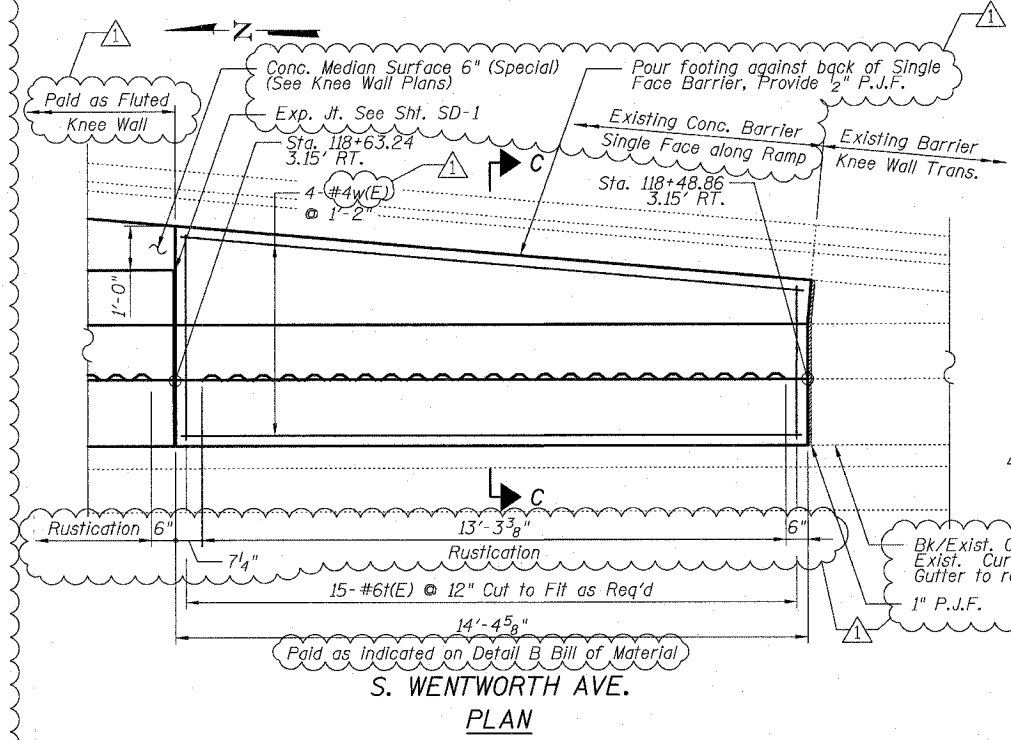
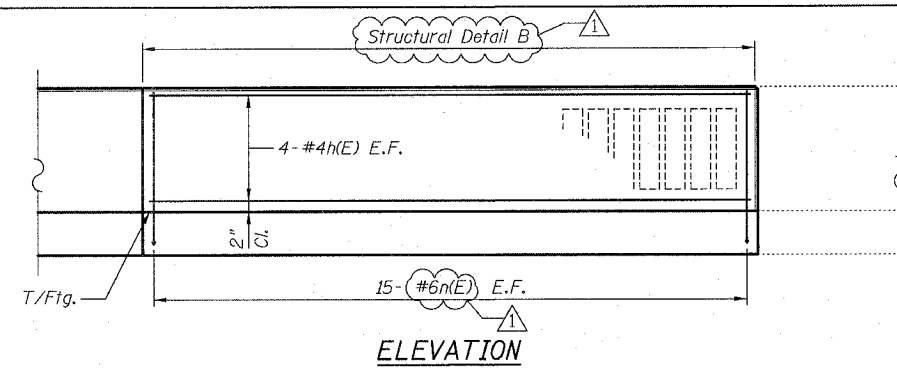
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

DETAIL E

SCALE: N.T.S. DRAWN BY: PAH
DATE: 03/06/08 CHECKED BY: BLU

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	38	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62998	* (2323.6-2P&2324.6-1P)1-3			

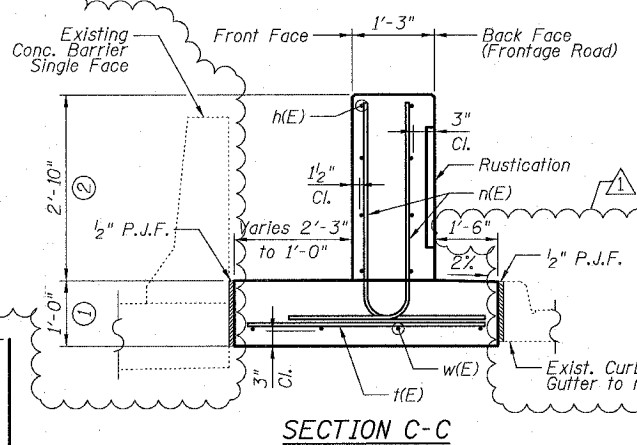


DETAIL B REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n(E)	8	#4	14'-0"	
n(E)	30	#6	5'-6"	
n(E)	15	#6	4'-8"	
w(E)	4	#4	14'-0"	
Item		Unit	Qty.	
Concrete Structures		Cu. Yd.	2.4	
Concrete Superstructure		Cu. Yd.	1.9	
Reinforcement Bars, Epoxy Coated		Pound	470	
Rustication Finish		Sq. Ft.	25	
Protective Coat		Sq. Yd.	9	

NOTES:

- All stations and offsets measured from S. Wentworth Ave. \perp .
- Back Face is face adjacent to Frontage Rd. and Front Face is face adjacent to Expressway.
- Concrete: $f'c = 3500$ psi
- Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details.
- At locations where Fluted Knee Wall abuts a rigid structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the structure shall be installed between the wall and the structure.
- Apply Protective Coat to top and back face of stem and top of Frontage Road side of foundation.
- For Fluted Knee Wall standard details, see Sheet SD-1
- B.F. = Back Face
F.F. = Front Face
E.F. = Each Face



SHEET SD-5

REVISIONS	
NAME	DATE
REVISED	3-6-08
ADDENDUM 1	5-30-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
SOUTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

DETAIL B

SCALE: N.T.S. DRAWN BY: LAM
DATE: 03/06/08 CHECKED BY: BLU

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