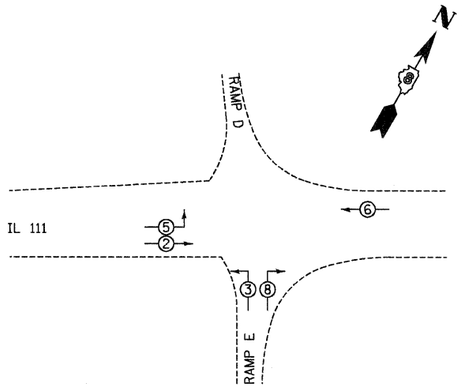
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	101
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

CABLE DIAGRAM LEGEND

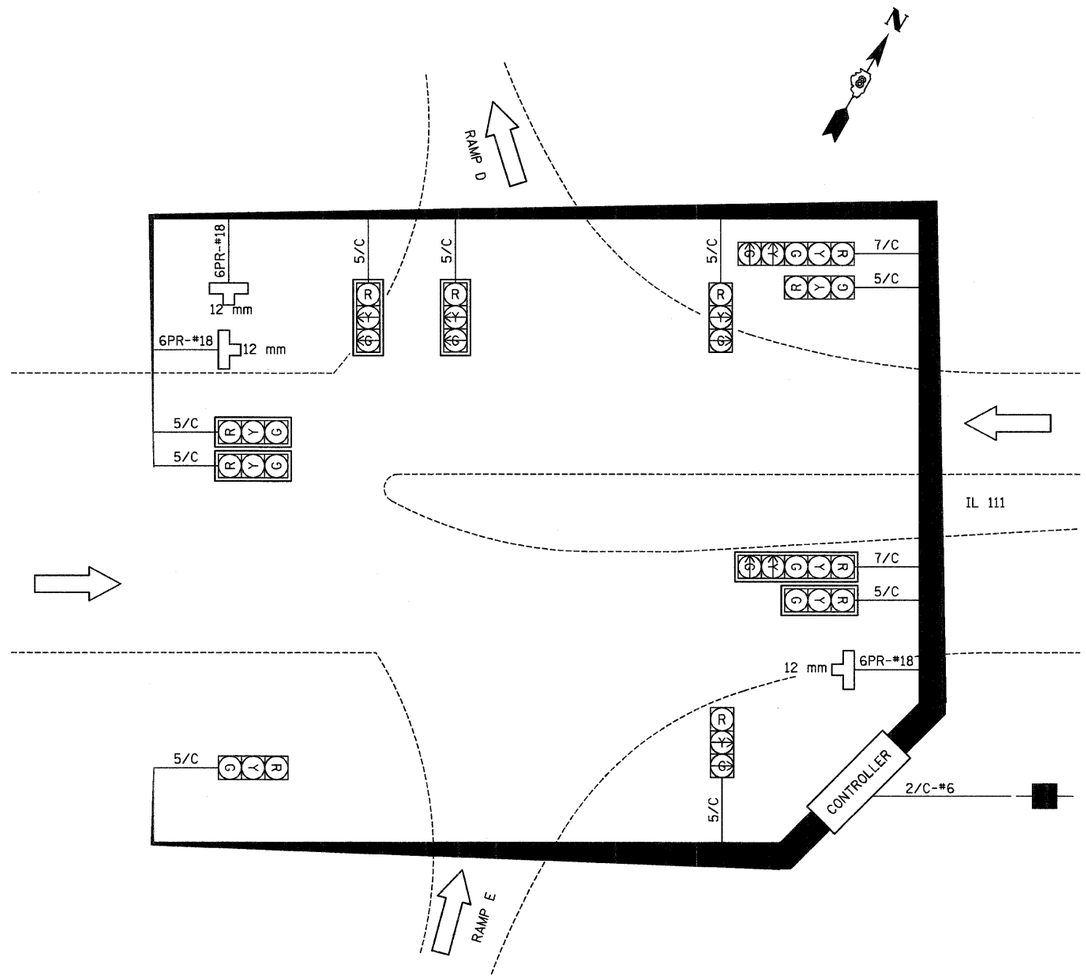
———	ELECTRIC CABLE IN CONDUIT
5/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
	SERVICE INSTALLATION
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUTORS (SEE GENERAL NOTES)
B	LUMINARE
	VIDEO CAMERA



PHASE DESIGNATION DIAGRAM

FULL-ACTUATED CONTROLLER SEQUENCE
8 PHASES, IN TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	—	→	↰	—	↳	←	—	↱
CONCURRENT MOVEMENT PERMITTED	NOT USED	5 OR 6	8	NOT USED	2	2	NOT USED	3



CABLES ARE #14 UNLESS OTHERWISE NOTED.

LUMINARE LEGEND

A. LUMINARE, SODIUM VAPOR, MULTI-MOUNT 250 WATT, 2 EACH MOUNTED ON 2-WAY BULLHORN, POST TOP MOUNT

B. LUMINARE, SODIUM VAPOR, MULTI-MOUNT 250 WATT, 2 EACH MOUNTED ON 2-WAY BULLHORN, POST TOP MOUNT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE DIAGRAM
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY
DATE CHECKED BY

IL 111 AND RAMPS E & D INTERSECTION

12/7/2007

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BM 3023 - Chiseled "X" on west flange bolt of fire hydrant located on south side of IL 111 in front of Rister's Auto - IL 111 Sta 30+095 27 m Rt. Elev. 187.116

Existing Structure - None

INDEX OF SHEETS

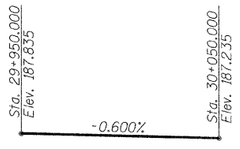
STATION 39+914.647
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 310 SEC. 60-15HB-2

LOADING MS18
STR. NO. 060-0330

NAME PLATE

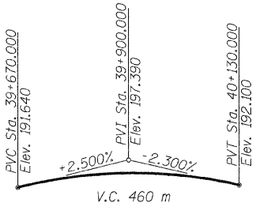
See Std. 515001
(2 Required)

(N.B. Bridge shown, S.B. Bridge same except Str. No. 060-0331)



IL 111 PROFILE

(Along Median Edge)

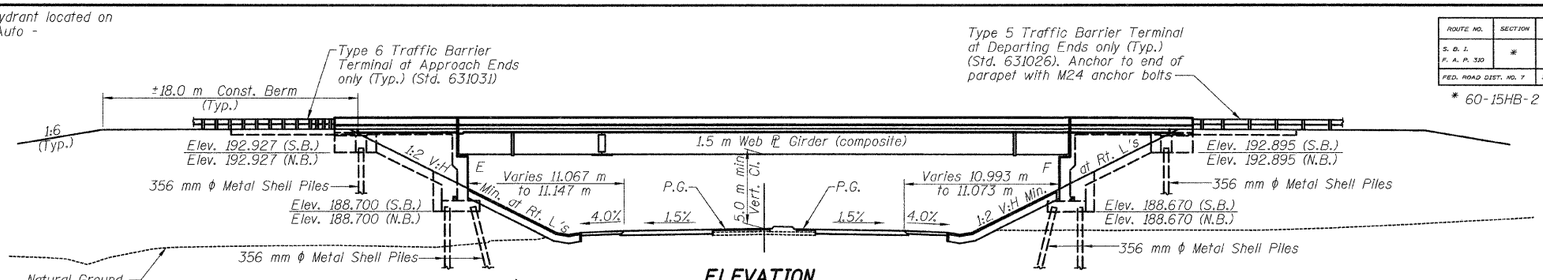


FAP 310 PROFILE

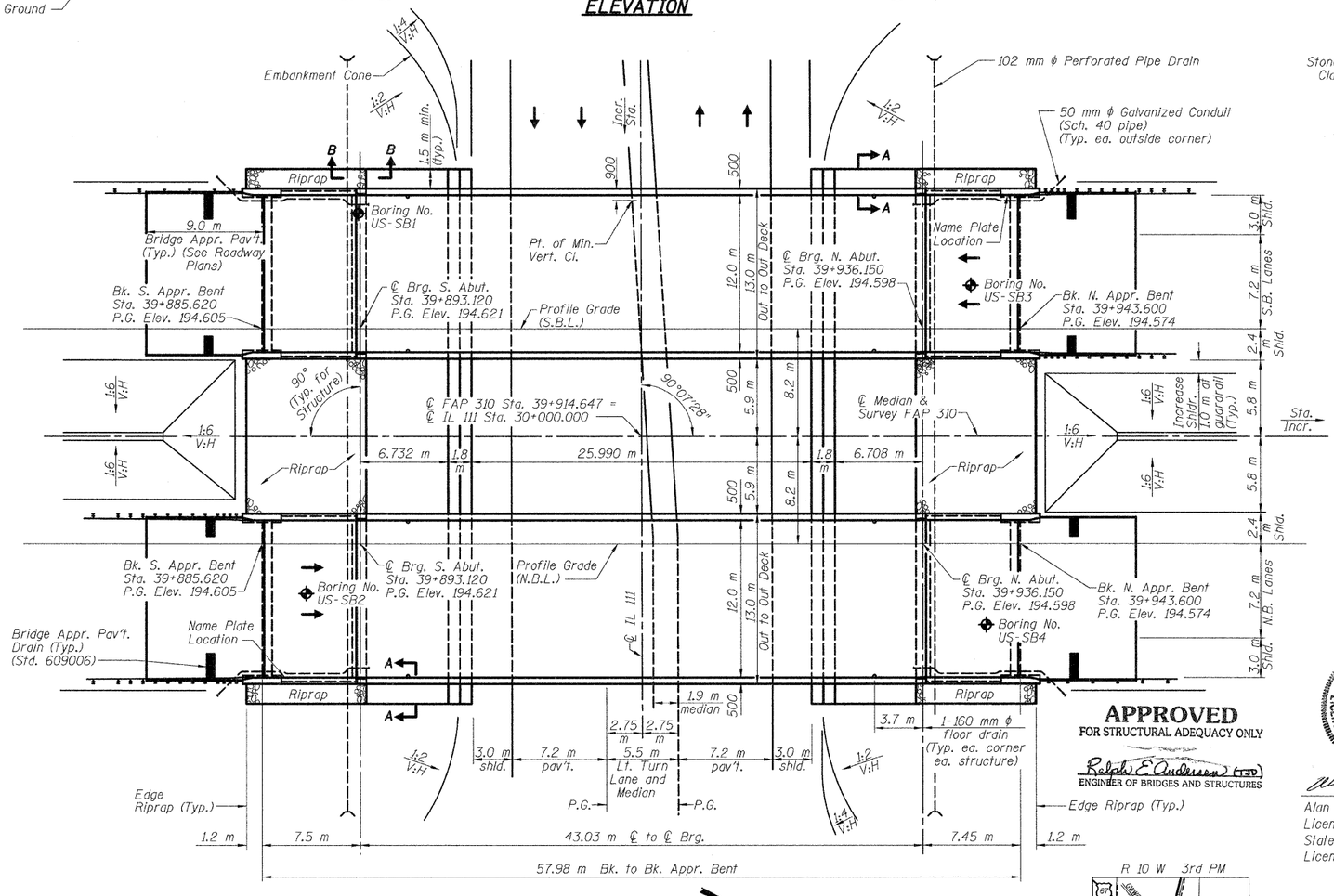
(Along Median Edge)

DESIGNED	ADL
CHECKED	WLW
DRAWN	DGM/ADL
CHECKED	WLW

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL — Ph (217) 223-3678 - Fax (217) 223-3683
4361 Paris Gravel Road, Hannibal, MO — Ph (573) 221-8828 - Fax (573) 221-8822
828 N. 4th Street, Suite 108, Burlington, IA — Ph (319) 753-1536 - Fax (319) 752-2685
49 North Prairie Street, Galesburg, IL — Ph (309) 342-4842 - Fax (309) 341-2281
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM • 1842738



ELEVATION



PLAN

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.080g
Site Coefficient (S) = 1.0

DESIGN SPECIFICATIONS

AASHTO 1996 with 1997, 1998, 1999 & 2000 Interims

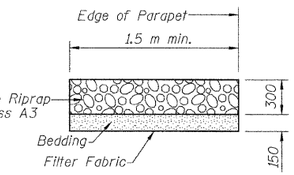
LOADING MS18

Allow 2.4 kN/m² for future wearing surface.

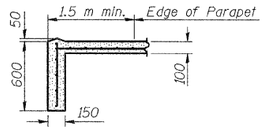
DESIGN STRESSES

FIELD UNITS

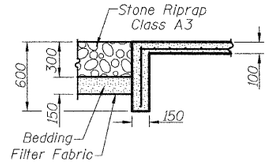
f'c = 24 MPa
fy = 400 MPa (reinf.)
fy = 250 MPa (M270M Grade 250)
fy = 345 MPa (M270M Grade 345)



RIPRAP DETAIL



SECTION A-A



SECTION B-B BETWEEN RIPRAP AND CONCRETE SLOPEWALL

APPROVED

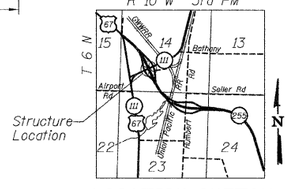
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSD)
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
ALAN D. LUKENS
081-005167
QUINCY, ILLINOIS
LICENSED STRUCTURAL ENGINEER

11-4-08

Alan D. Lukens — Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/10



LOCATION SKETCH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 330	*	MADISON	272	102
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
24 SHEETS

* 60-15HB-2 CONTRACT NO. 76624

GENERAL PLAN
FAP RTE. 310 (IL RTE 255) OVER IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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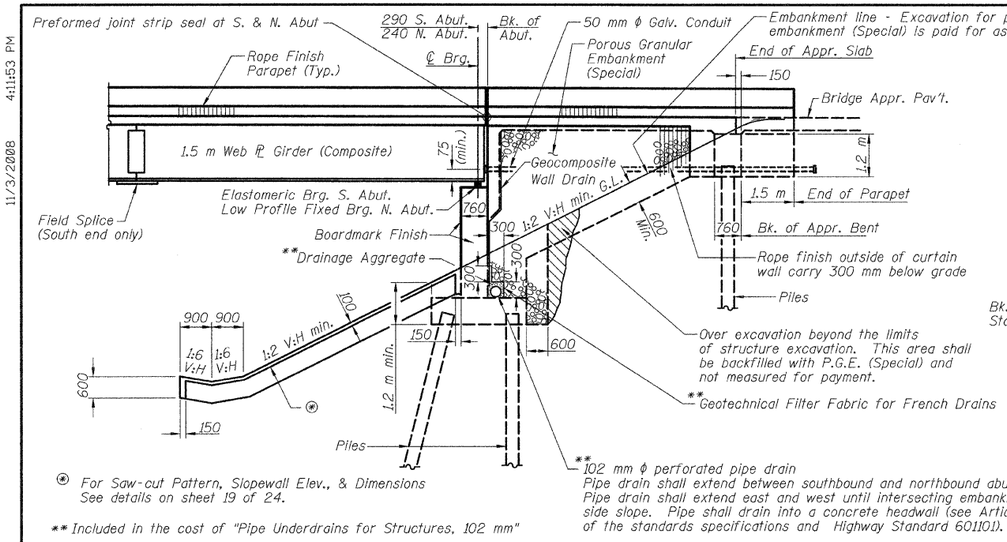
11/3/2008 4:11:53 PM



Ⓐ For Saw-cut Pattern, Slopewall Elev., & Dimensions See details on sheet 19 of 24.

** Included in the cost of "Pipe Underdrains for Structures, 102 mm"

VAULTED ABUTMENT AND SLOPEWALL DETAILS

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts M22, open holes 24 mm ϕ, unless otherwise noted.

Calculated mass of Structural Steel = 201,390 kg (M270M Grade 345)
11,150 kg (M270M Grade 250)

The inorganic zinc rich primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia girders shall be Reddish Brown, Munsell No. 2.5 YR 3/4. See special provision for "Cleaning and Painting New Metal Structures".

Concrete Sealer shall be applied to seat areas of the abutments, front faces of backwalls, and front faces of abutments.

All construction joints shall be bonded.

No field welding is permitted except as specified in the contract documents.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270M Grade 345.

Reinforcement bars shall conform to the requirements of ASTM A 706M Gr 420 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Slope wall shall be reinforced with welded wire fabric, 152 x 152-MW25.8 x MW25.8 with a mass of 2.91 kg/m².

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Piles shall be driven through 380 mm diameter precored holes extending to elevation 186.0 at South Approach Bent & Elevation 187.0 at North Approach Bent according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

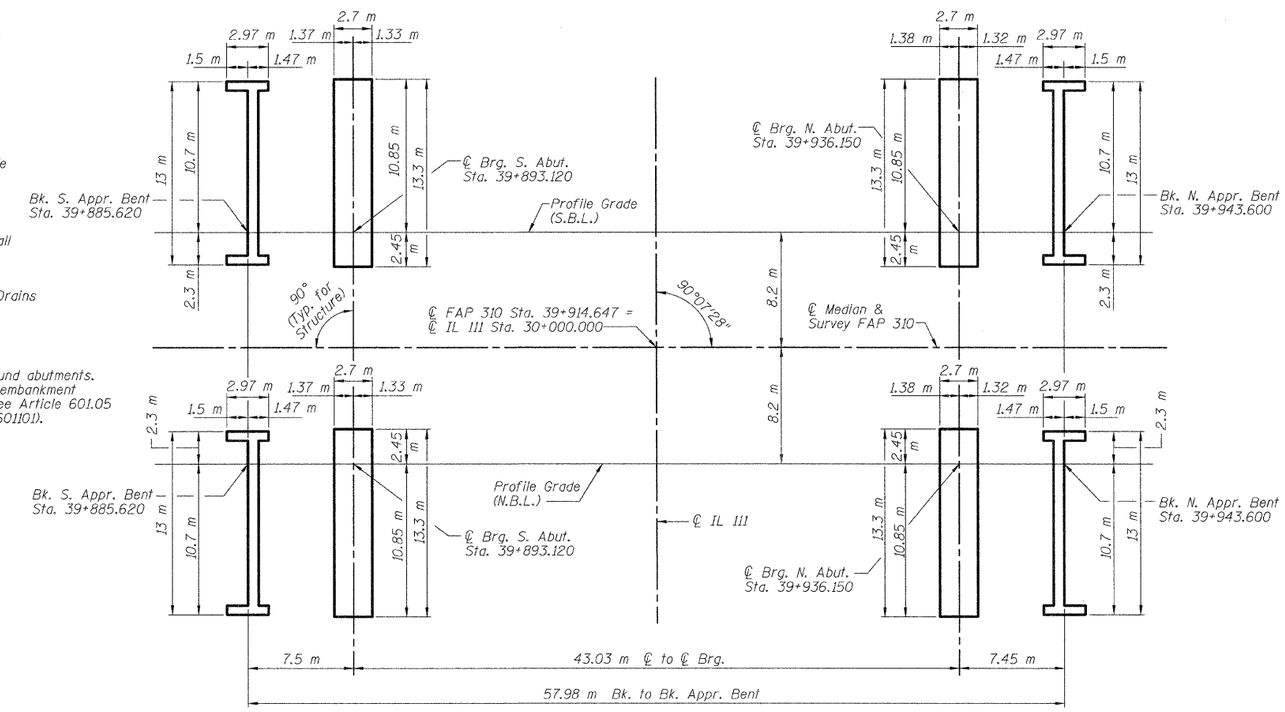
The contractor shall drive two (2) metal shell test piles in a permanent location shown on the following chart as directed by the Engineer before ordering the remainder of piles.

	S. Appr. Bent	S. Abut.	N. Abut.	N. Appr. Bent
N.B. Structure			1	
S.B. Structure		1		

All dimensions are in millimeters (mm) except as noted.

Slip Forming Parapets are not allowed.

DESIGNED	ADL
CHECKED	WLW
DRAWN	DGM/ADL
CHECKED	WLW

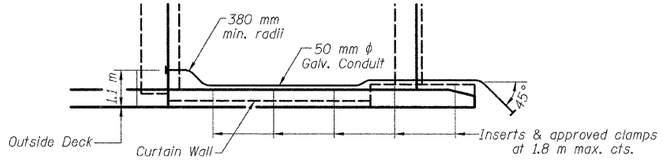


TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Floor Drains	Each	8		8
	Elastomeric Bearing Assembly, Type I	Each	12		12
	Furnishing and Erecting Structural Steel	Lump Sum	1		1
	Stud Shear Connectors	Each	2880		2880
	Test Pile Metal Shells	Each		2	2
	Name Plates	Each	2		2
	Stone Riprap, Class A3	m²		303	303
	Filter Fabric	m²		303	303
**	Protective Coat	m²	1662		1662
	Structure Excavation	m³		664	664
	Preformed Joint Strip Seal	m	50.5		50.5
	Concrete Structures	m³		371.9	371.9
	Concrete Superstructure	m³	452.4		452.4
**	Bridge Deck Grooving	m²	1377		1377
	Reinforcement Bars, Epoxy Coated	kg	59,300	26,820	86,120
	Furnishing Metal Shell Piles 356mmx6.35mm	m		1890.5	1890.5
	Driving Piles	m		1890.5	1890.5
	Concrete Sealer	m²		268	268
	Slope Wall, Special	m²		717	717
	Form Liner Textured Surface	m²	51	316	367
	Pipe Underdrains for Structures, 100 mm	m		132	132
	Geocomposite Wall Drain	m²		217	217
	Porous Granular Embankment (Special)	m³		684	684

** Quantity includes Approach Slabs

FOOTING LAYOUT



PARTIAL PLAN OF VAULTED ABUTMENT

Showing Electrical Conduit

Cost of 50 mm ϕ galv. conduit is included with "Concrete Structure"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	103
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2

24 SHEETS

* 60-15HB-2 CONTRACT NO. 76624

TOTAL BILL OF MATERIAL, GENERAL NOTES & FOOTING LAYOUT
FAP RTE 310 (IL RTE 255) OVER IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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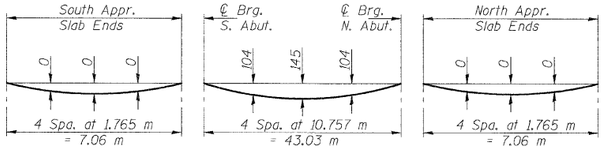
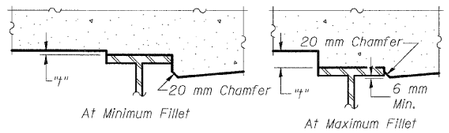


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab and parapet only)

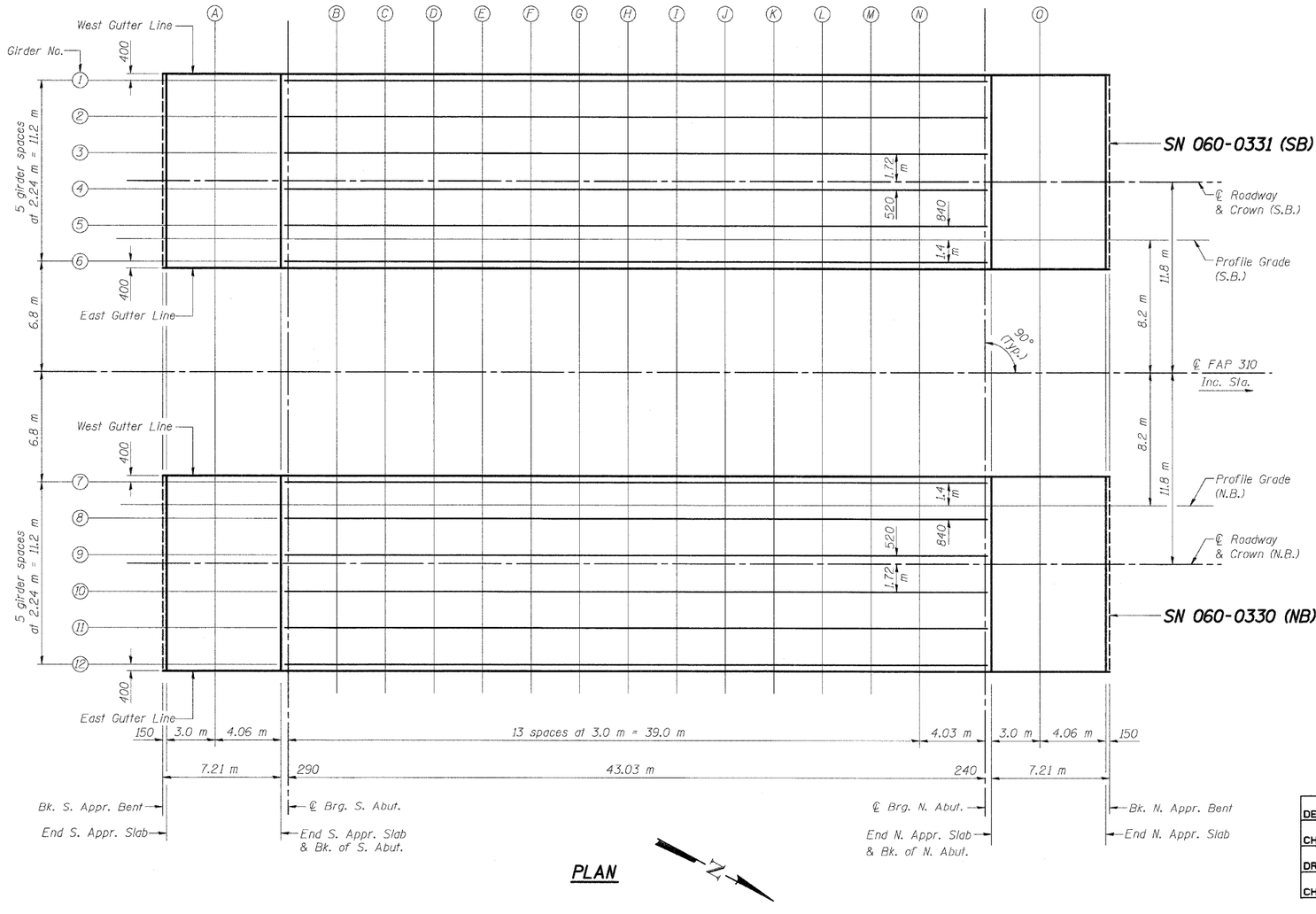
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet 4 of 24.

All offsets are in meters.
Offsets are measured from ℄ FAP 310
All Offsets are positive.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 4 of 24, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	104
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

℄ ROADWAY & CROWN - SN 060-0330 (NB) & ℄ ROADWAY & CROWN - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Appr. Bent	39+885.620	11.800	194.659	194.659
End S. Appr. Slab	39+885.770	11.800	194.659	194.659
A	39+888.770	11.800	194.666	194.666
End S. Appr. Slab	39+892.830	11.800	194.674	194.674
End N. Appr. Slab	39+936.390	11.800	194.651	194.651
O	39+939.390	11.800	194.642	194.642
End N. Appr. Slab	39+943.450	11.800	194.629	194.629
Bk. N. Appr. Bent	39+943.600	11.800	194.628	194.628

WEST GUTTER LINE - SN 060-0330 (NB) & EAST GUTTER LINE - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Appr. Bent	39+885.620	6.400	194.569	194.569
End S. Appr. Slab	39+885.770	6.400	194.569	194.569
A	39+888.770	6.400	194.576	194.576
End S. Appr. Slab	39+892.830	6.400	194.584	194.584
End N. Appr. Slab	39+936.390	6.400	194.561	194.561
O	39+939.390	6.400	194.552	194.552
End N. Appr. Slab	39+943.450	6.400	194.539	194.539
Bk. N. Appr. Bent	39+943.600	6.400	194.538	194.538

EAST GUTTER LINE - SN 060-0330 (NB) & WEST GUTTER LINE - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Appr. Bent	39+885.620	18.400	194.545	194.545
End S. Appr. Slab	39+885.770	18.400	194.545	194.545
A	39+888.770	18.400	194.552	194.552
End S. Appr. Slab	39+892.830	18.400	194.560	194.560
End N. Appr. Slab	39+936.390	18.400	194.537	194.537
O	39+939.390	18.400	194.528	194.528
End N. Appr. Slab	39+943.450	18.400	194.515	194.515
Bk. N. Appr. Bent	39+943.600	18.400	194.514	194.514

PROFILE GRADE LINE - SN 060-0330 (NB) & PROFILE GRADE LINE - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Appr. Bent	39+885.620	8.200	194.605	194.605
End S. Appr. Slab	39+885.770	8.200	194.605	194.605
A	39+888.770	8.200	194.612	194.612
End S. Appr. Slab	39+892.830	8.200	194.620	194.620
End N. Appr. Slab	39+936.390	8.200	194.597	194.597
O	39+939.390	8.200	194.588	194.588
End N. Appr. Slab	39+943.450	8.200	194.575	194.575
Bk. N. Appr. Bent	39+943.600	8.200	194.574	194.574

TOP OF SLAB ELEVATIONS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	105
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

PROFILE GRADE LINE - SN 060-0330 (NB)
PROFILE GRADE LINE - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	8.200	194.621	194.621
B	39+896.120	8.200	194.625	194.658
C	39+899.120	8.200	194.629	194.693
D	39+902.120	8.200	194.632	194.723
E	39+905.120	8.200	194.634	194.747
F	39+908.120	8.200	194.635	194.765
G	39+911.120	8.200	194.635	194.776
H	39+914.120	8.200	194.634	194.779
I	39+917.120	8.200	194.632	194.775
J	39+920.120	8.200	194.629	194.764
K	39+923.120	8.200	194.625	194.745
L	39+926.120	8.200	194.621	194.720
M	39+929.120	8.200	194.615	194.689
N	39+932.120	8.200	194.608	194.652
℄ Brg. N. Abut.	39+936.150	8.200	194.598	194.598

℄ ROADWAY & CROWN - SN 060-0330 (NB)
℄ ROADWAY & CROWN - SN 060-0331 (SB)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	11.800	194.675	194.675
B	39+896.120	11.800	194.679	194.712
C	39+899.120	11.800	194.683	194.747
D	39+902.120	11.800	194.686	194.777
E	39+905.120	11.800	194.688	194.801
F	39+908.120	11.800	194.689	194.819
G	39+911.120	11.800	194.689	194.830
H	39+914.120	11.800	194.688	194.833
I	39+917.120	11.800	194.686	194.829
J	39+920.120	11.800	194.683	194.818
K	39+923.120	11.800	194.679	194.799
L	39+926.120	11.800	194.675	194.774
M	39+929.120	11.800	194.669	194.743
N	39+932.120	11.800	194.662	194.706
℄ Brg. N. Abut.	39+936.150	11.800	194.652	194.652

GIRDER 6 & 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	6.800	194.593	194.593
B	39+896.120	6.800	194.597	194.630
C	39+899.120	6.800	194.601	194.665
D	39+902.120	6.800	194.604	194.695
E	39+905.120	6.800	194.606	194.719
F	39+908.120	6.800	194.607	194.737
G	39+911.120	6.800	194.607	194.748
H	39+914.120	6.800	194.606	194.751
I	39+917.120	6.800	194.604	194.747
J	39+920.120	6.800	194.601	194.736
K	39+923.120	6.800	194.597	194.717
L	39+926.120	6.800	194.593	194.692
M	39+929.120	6.800	194.587	194.661
N	39+932.120	6.800	194.580	194.624
℄ Brg. N. Abut.	39+936.150	6.800	194.570	194.570

GIRDER 5 & 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	9.040	194.634	194.634
B	39+896.120	9.040	194.638	194.671
C	39+899.120	9.040	194.642	194.706
D	39+902.120	9.040	194.645	194.736
E	39+905.120	9.040	194.647	194.760
F	39+908.120	9.040	194.648	194.778
G	39+911.120	9.040	194.648	194.789
H	39+914.120	9.040	194.647	194.792
I	39+917.120	9.040	194.645	194.788
J	39+920.120	9.040	194.642	194.777
K	39+923.120	9.040	194.638	194.758
L	39+926.120	9.040	194.634	194.733
M	39+929.120	9.040	194.628	194.702
N	39+932.120	9.040	194.621	194.665
℄ Brg. N. Abut.	39+936.150	9.040	194.611	194.611

GIRDER 4 & 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	11.280	194.667	194.667
B	39+896.120	11.280	194.671	194.704
C	39+899.120	11.280	194.675	194.739
D	39+902.120	11.280	194.678	194.769
E	39+905.120	11.280	194.680	194.793
F	39+908.120	11.280	194.681	194.811
G	39+911.120	11.280	194.681	194.822
H	39+914.120	11.280	194.680	194.825
I	39+917.120	11.280	194.678	194.821
J	39+920.120	11.280	194.675	194.810
K	39+923.120	11.280	194.671	194.791
L	39+926.120	11.280	194.667	194.766
M	39+929.120	11.280	194.661	194.735
N	39+932.120	11.280	194.654	194.698
℄ Brg. N. Abut.	39+936.150	11.280	194.644	194.644

GIRDER 3 & 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	13.520	194.649	194.649
B	39+896.120	13.520	194.653	194.686
C	39+899.120	13.520	194.657	194.721
D	39+902.120	13.520	194.660	194.751
E	39+905.120	13.520	194.662	194.775
F	39+908.120	13.520	194.663	194.793
G	39+911.120	13.520	194.663	194.804
H	39+914.120	13.520	194.662	194.807
I	39+917.120	13.520	194.660	194.803
J	39+920.120	13.520	194.657	194.792
K	39+923.120	13.520	194.653	194.773
L	39+926.120	13.520	194.649	194.748
M	39+929.120	13.520	194.643	194.717
N	39+932.120	13.520	194.636	194.680
℄ Brg. N. Abut.	39+936.150	13.520	194.626	194.626

GIRDER 2 & 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	15.760	194.614	194.614
B	39+896.120	15.760	194.618	194.651
C	39+899.120	15.760	194.622	194.686
D	39+902.120	15.760	194.625	194.716
E	39+905.120	15.760	194.627	194.740
F	39+908.120	15.760	194.628	194.758
G	39+911.120	15.760	194.628	194.769
H	39+914.120	15.760	194.627	194.772
I	39+917.120	15.760	194.625	194.768
J	39+920.120	15.760	194.622	194.757
K	39+923.120	15.760	194.618	194.738
L	39+926.120	15.760	194.614	194.713
M	39+929.120	15.760	194.608	194.682
N	39+932.120	15.760	194.601	194.645
℄ Brg. N. Abut.	39+936.150	15.760	194.591	194.591

GIRDER 1 & 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
℄ Brg. S. Abut.	39+893.120	18.000	194.569	194.569
B	39+896.120	18.000	194.573	194.606
C	39+899.120	18.000	194.577	194.641
D	39+902.120	18.000	194.580	194.671
E	39+905.120	18.000	194.582	194.695
F	39+908.120	18.000	194.583	194.713
G	39+911.120	18.000	194.583	194.724
H	39+914.120	18.000	194.582	194.727
I	39+917.120	18.000	194.580	194.723
J	39+920.120	18.000	194.577	194.712
K	39+923.120	18.000	194.573	194.693
L	39+926.120	18.000	194.569	194.668
M	39+929.120	18.000	194.563	194.637
N	39+932.120	18.000	194.556	194.600
℄ Brg. N. Abut.	39+936.150	18.000	194.546	194.546

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

TOP OF SLAB ELEVATIONS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

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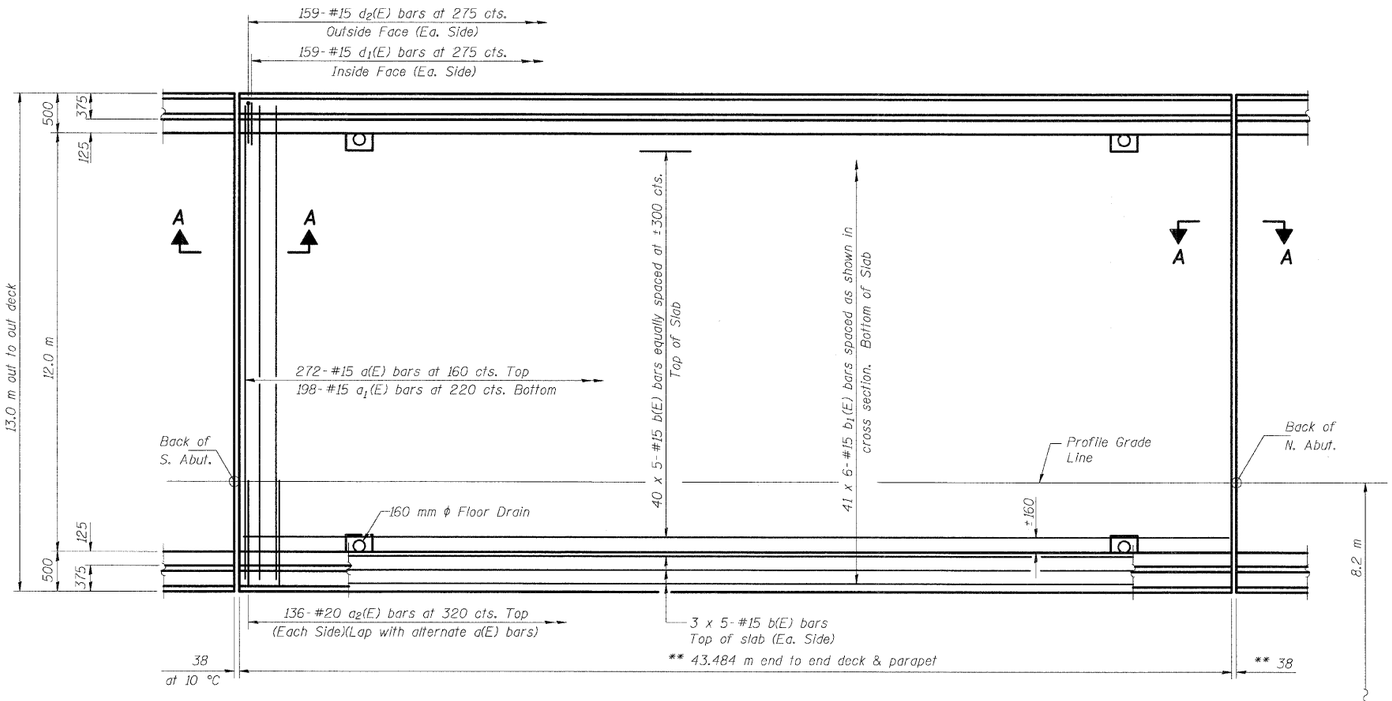
12/7/2007 1:38:53 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. H. 3 F. A. P. 310	*	MADISON	272	106
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

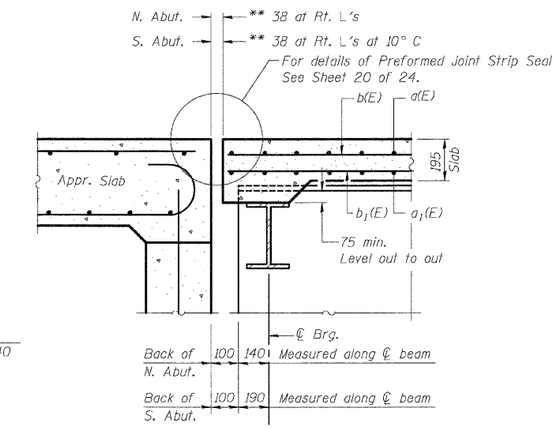
SHEET NO. 5
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624



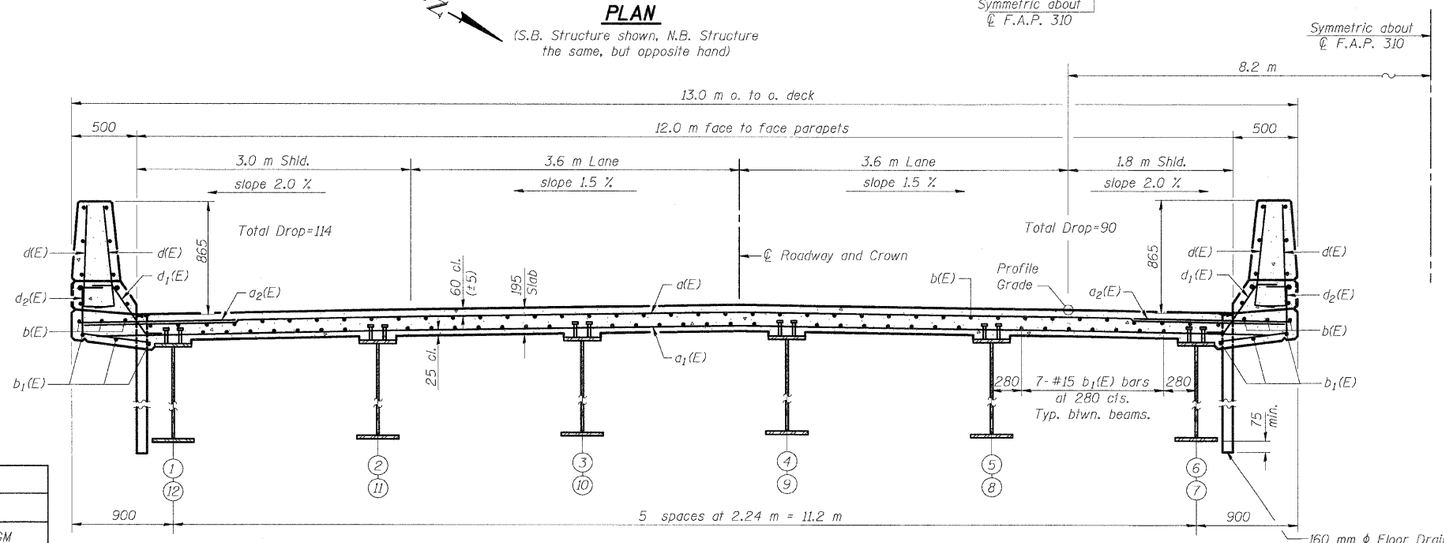
PLAN

(S.B. Structure shown, N.B. Structure the same, but opposite hand)



Min. Lap
#15 bars = 640

SECTION A-A



CROSS SECTION

(Looking North)

(S.B. Structure shown, N.B. Structure the same, but opposite hand)

Notes: See Sheet 6 of 24 for superstructure details and Bill of Materials.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 6 of 24 for parapet reinforcement.

** Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet 20 of 24.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

SUPERSTRUCTURE
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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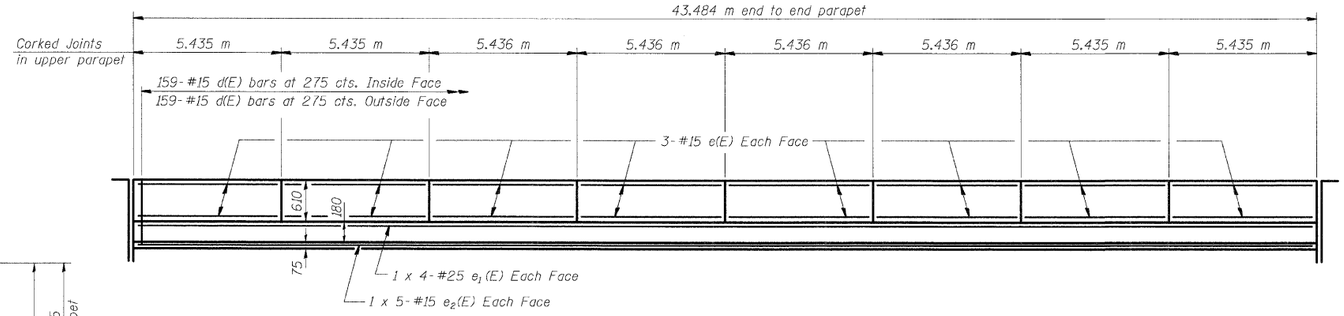
p:\20files\020024\dl111\bridge_plans\060-0330superstructure.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	107
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

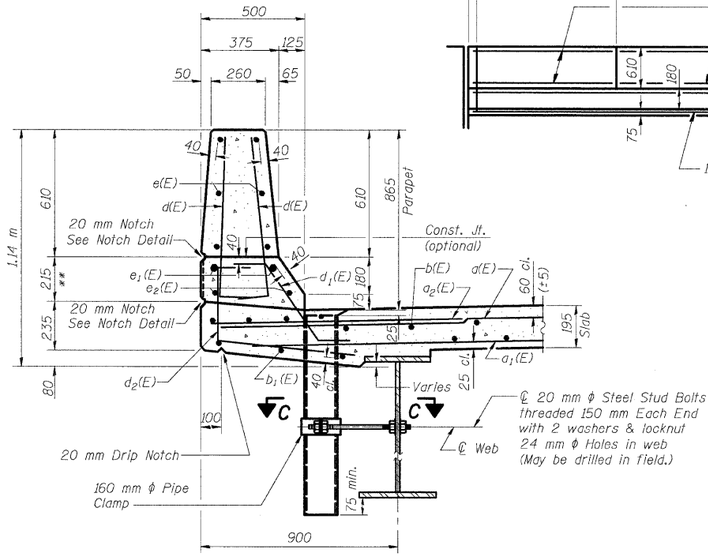
SHEET NO. 6
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624



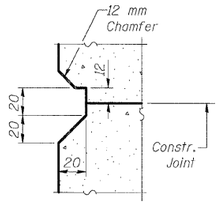
INSIDE ELEVATION OF PARAPET

Min. Bar Lap
#15-640
#25-1.32 m

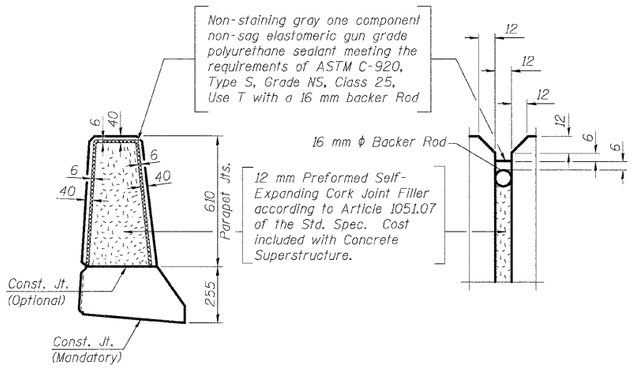


SECTION THRU PARAPET

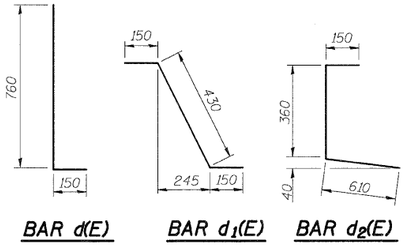
** Patterned Rope Texture Concrete.
See Sheet 19 of 24 for details.



NOTCH DETAIL



PARAPET JOINT DETAILS



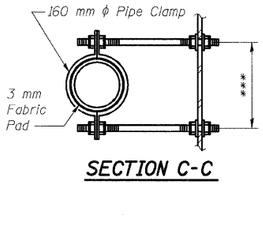
BAR d(E) BAR d_1(E) BAR d_2(E)

TWO SUPERSTRUCTURES BILL OF MATERIAL

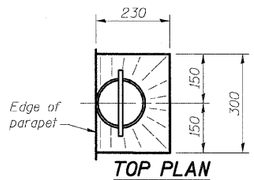
Bar	No.	Size	Length (m)	Shape
d(E)	544	#15	12.80	——
a_1(E)	396	#15	12.60	——
a_2(E)	544	#20	1.20	——
b(E)	460	#15	9.20	——
b_1(E)	492	#15	7.80	——
d(E)	1272	#15	0.91	⌟
d_1(E)	636	#15	0.73	⌝
d_2(E)	636	#15	1.12	⌞
e(E)	192	#15	5.35	——
e_1(E)	32	#25	11.90	——
e_2(E)	40	#15	9.20	——
Reinforcement Bars, Epoxy Coated		kg	40,320	
Concrete Superstructure		m^3	287.6	
Floor Drains		Each	8	
Bridge Deck Grooving		m^2	1041	
Protective Coat		m^2	1244	
Form Liner Textured Surface		m^2	37	

Bars indicated thus 1 x 5- #15 etc. indicates 1 line of bars with 5 lengths per line.

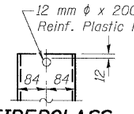
*** Dimension as required by Pipe Clamp



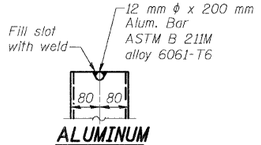
SECTION C-C



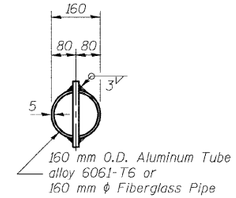
TOP PLAN



FIBERGLASS PIPE



ALUMINUM TUBE



TOP PLAN

(Showing Aluminum Tube)

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

Notes:
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 200 MPa minimum.

SUPERSTRUCTURE DETAILS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

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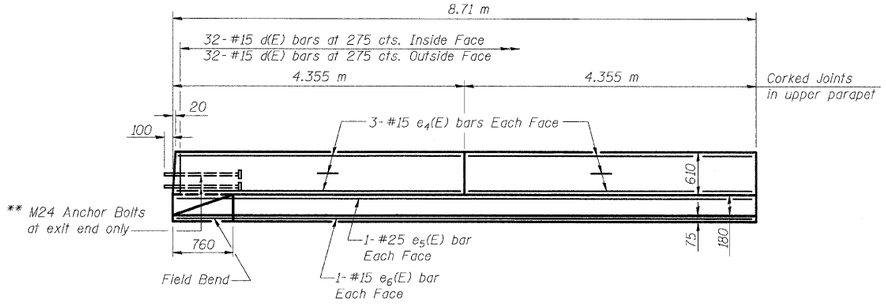
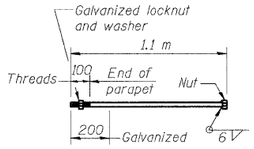
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U. S. I. F. A. P. 310	*	MADISON	272	108
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624



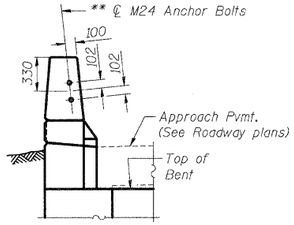
INSIDE ELEVATION OF PARAPET



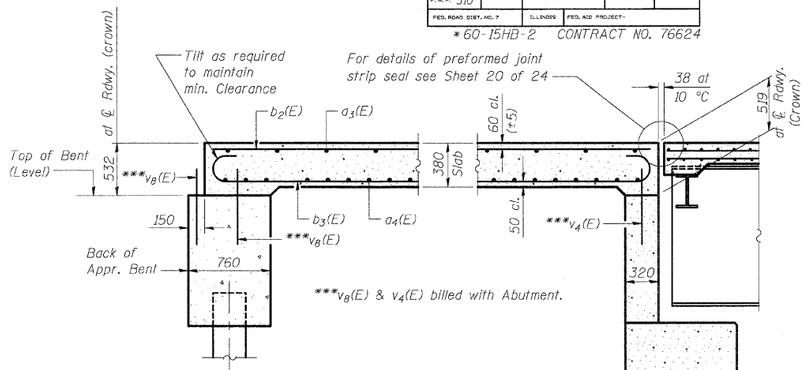
** M24 ANCHOR BOLT

(2 - Req'd)
Cost included with Concrete Superstructure.

** M24 Anchor bolts at West side of S.B. Structure only.



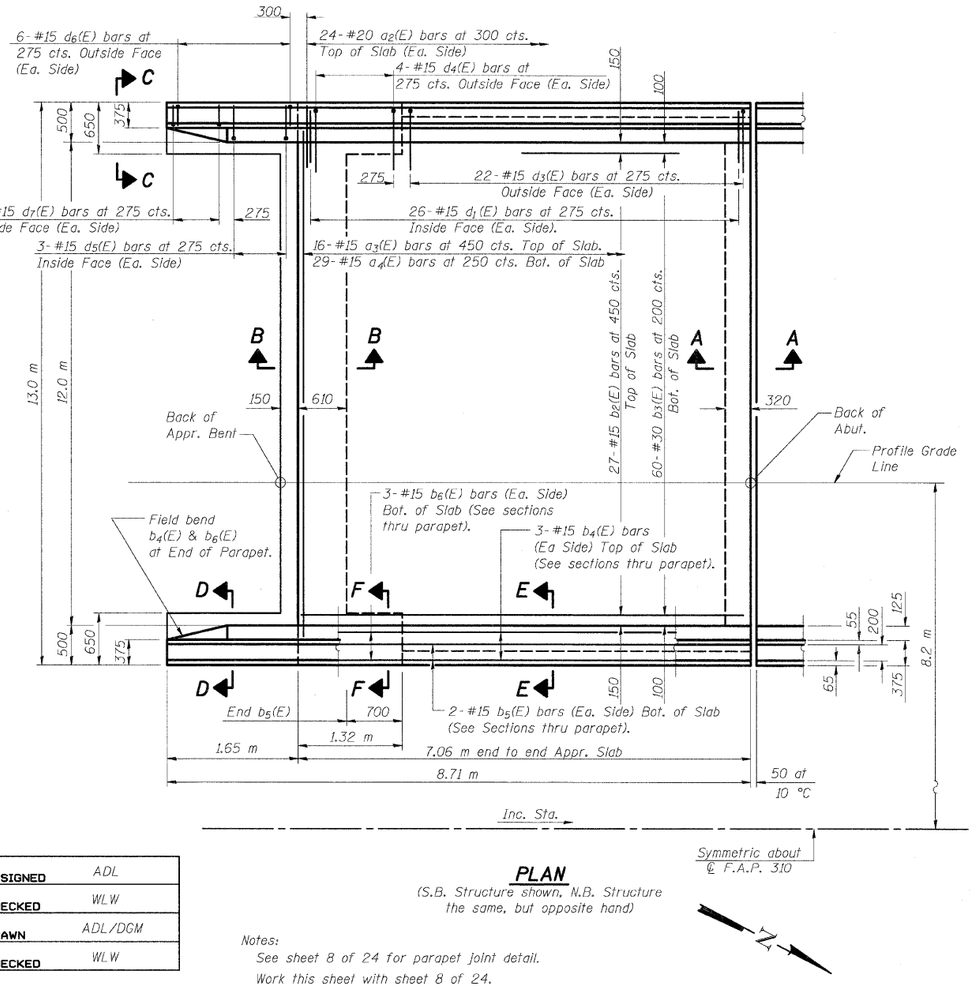
VIEW C-C



***V_8(E) & V_4(E) billed with Abutment.

SECTION B-B

SECTION A-A



PLAN

(S.B. Structure shown, N.B. Structure the same, but opposite hand)

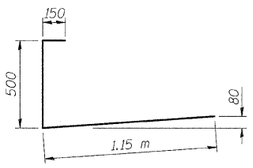
DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

Notes:
See sheet 8 of 24 for parapet joint detail.
Work this sheet with sheet 8 of 24.

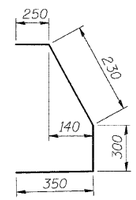
BAR d(E)

BAR d_1(E)

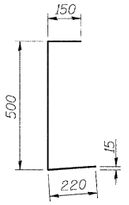
BAR d_3(E)



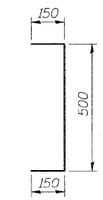
BAR d_4(E)



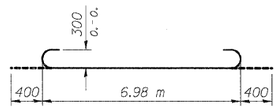
BAR d_5(E)



BAR d_6(E)



BAR d_7(E)



BAR b_3(E)

SOUTH APPROACH SLABS BILL OF MATERIALS

(Two Bridges)

Bar	No.	Size (#)	Length (m)	Shape
a_2(E)	96	#20	1.20	
a_3(E)	32	#15	12.36	
a_4(E)	58	#15	11.90	
b_2(E)	54	#15	6.98	
b_3(E)	120	#30	7.78	
b_4(E)	12	#15	8.63	
b_5(E)	8	#15	6.40	
b_6(E)	12	#15	2.89	
d(E)	256	#15	0.91	
d_1(E)	104	#15	0.73	
d_3(E)	88	#15	1.43	
d_4(E)	16	#15	1.80	
d_5(E)	12	#15	1.13	
d_6(E)	24	#15	0.87	
d_7(E)	12	#15	0.80	
e_4(E)	48	#15	4.27	
e_5(E)	8	#25	8.63	
e_6(E)	8	#15	8.63	
Reinforcement Bars, Epoxy Coated		kg	9490	
Concrete Superstructure		m^3	82.4	
Bridge Deck Grooving		m^2	168	
Protective Coat		m^2	209	
Form Liner Textured Surface		m^2	7	

SOUTH APPROACH SLABS (1 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

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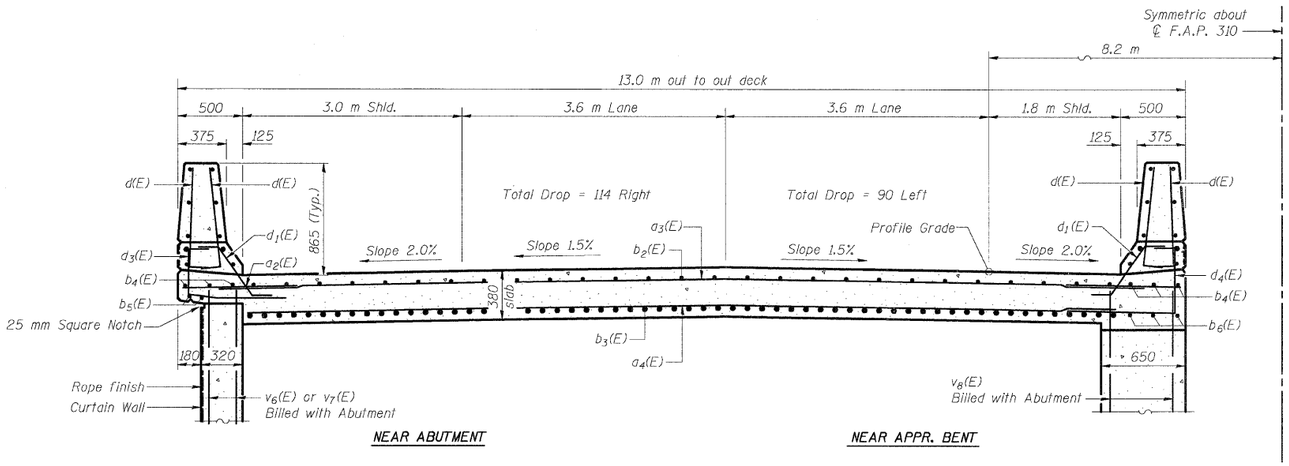
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	109
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 8
24 SHEETS

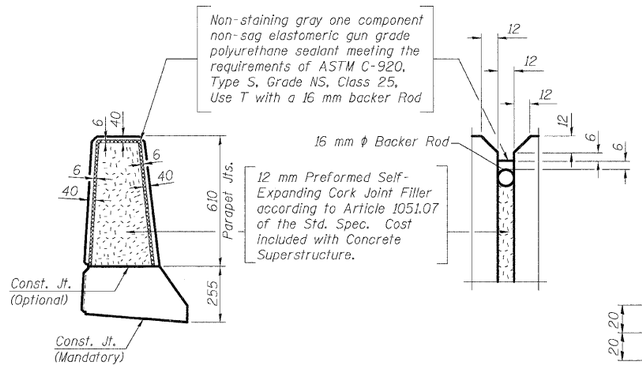
*60-15HB-2 CONTRACT NO. 76624



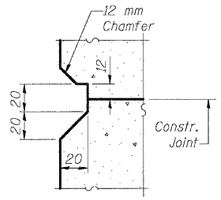
CROSS SECTION

(Looking North)

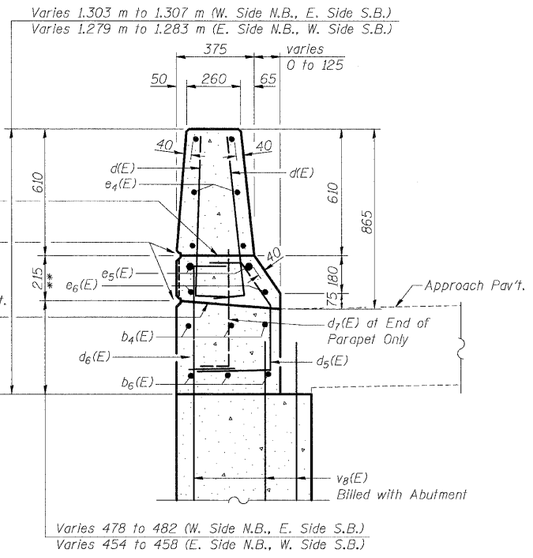
(S.B. Structure shown, N.B. structure the same, but opposite hand).



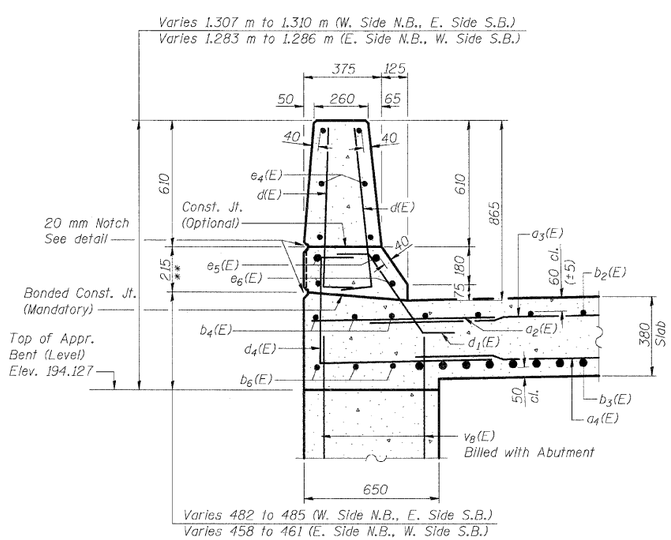
PARAPET JOINT DETAILS



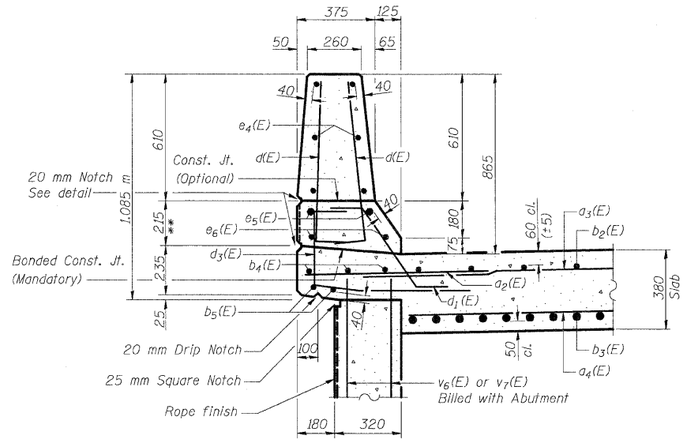
NOTCH DETAIL



SECTION THRU PARAPET (SECTION D-D)



SECTION THRU PARAPET (SECTION F-F)



SECTION THRU PARAPET (SECTION E-E)

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

Note:
Work this sheet with sheet 7 of 24.

** Patterned Rope Texture Concrete. See Sheet 19 of 24 for details.

SOUTH APPROACH SLABS (2 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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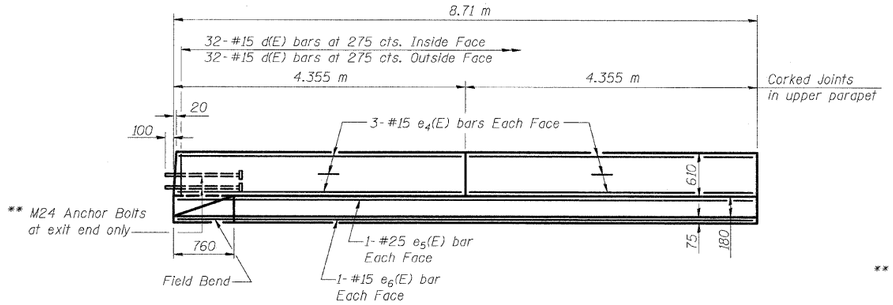
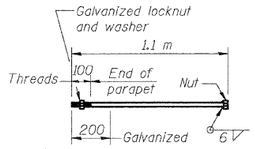
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. F. 310	*	MADISON	272	110
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624



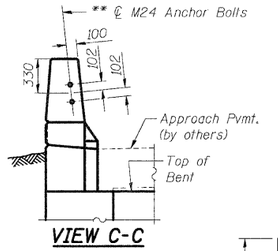
INSIDE ELEVATION OF PARAPET



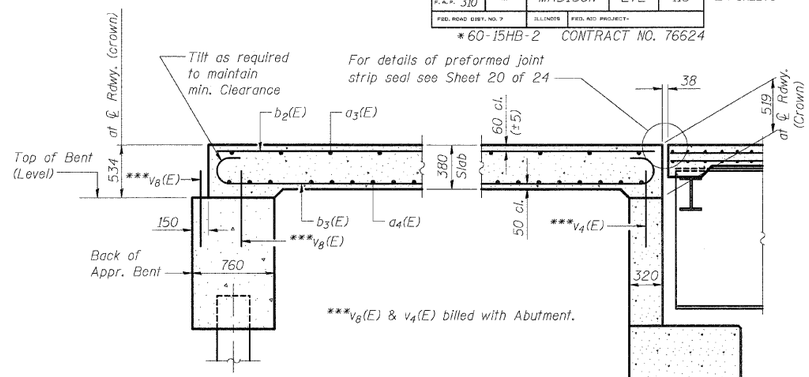
** M24 ANCHOR BOLT

(2 - Req'd)
Cost included with Concrete Superstructure.

** M24 Anchor bolts at East side of N.B. Structure only.

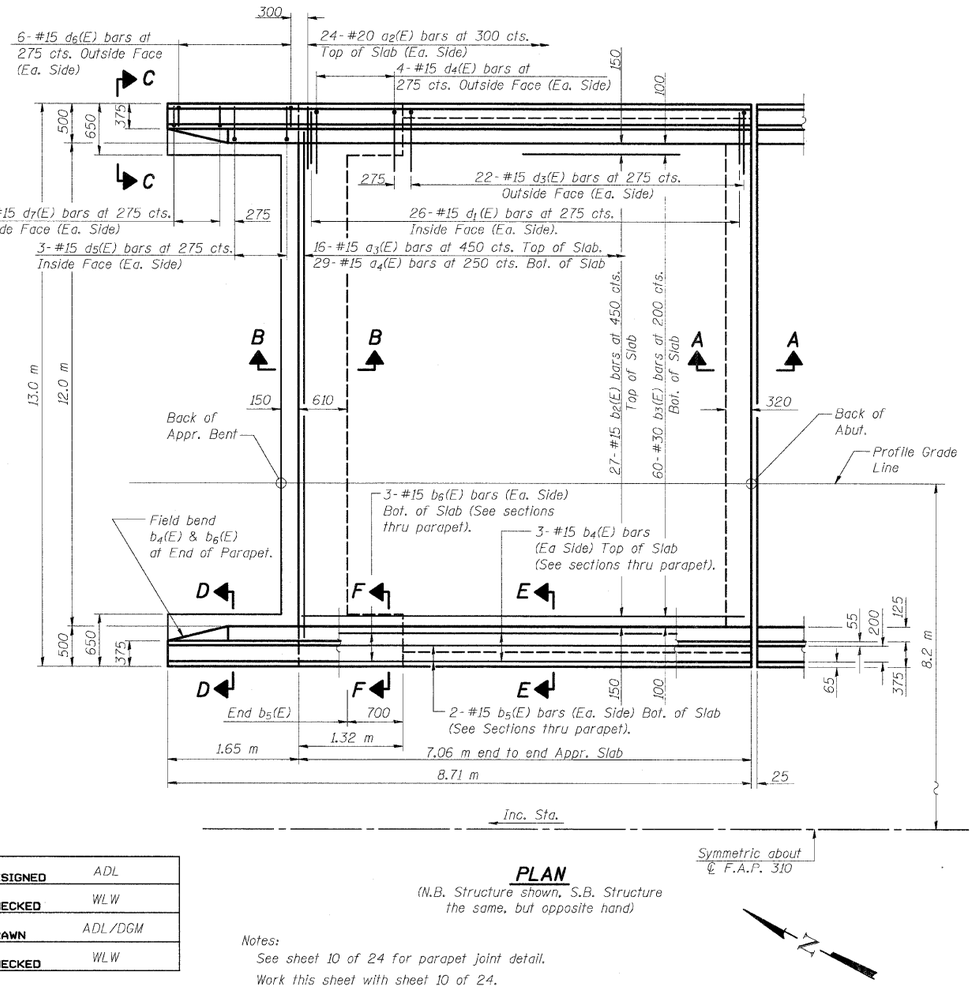


VIEW C-C



SECTION B-B

SECTION A-A



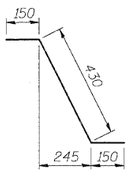
PLAN

(N.B. Structure shown, S.B. Structure the same, but opposite hand)

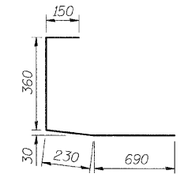
DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

Notes:
See sheet 10 of 24 for parapet joint detail.
Work this sheet with sheet 10 of 24.

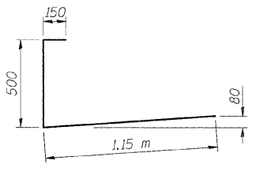
BAR d(E)



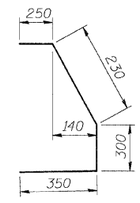
BAR d1(E)



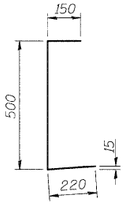
BAR d3(E)



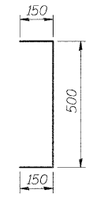
BAR d4(E)



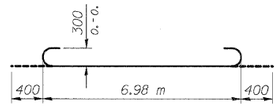
BAR d5(E)



BAR d6(E)



BAR d7(E)



BAR b3(E)

NORTH APPROACH SLABS BILL OF MATERIALS

(Two Bridges)

Bar	No.	Size (#)	Length (m)	Shape
a2(E)	96	#20	1.20	
a3(E)	32	#15	12.36	
a4(E)	58	#15	11.90	
b2(E)	54	#15	6.98	
b3(E)	120	#30	7.78	
b4(E)	12	#15	8.63	
b5(E)	8	#15	6.40	
b6(E)	12	#15	2.89	
d(E)	256	#15	0.91	
d1(E)	104	#15	0.73	
d3(E)	88	#15	1.43	
d4(E)	16	#15	1.80	
d5(E)	12	#15	1.13	
d6(E)	24	#15	0.87	
d7(E)	12	#15	0.80	
e4(E)	48	#15	4.27	
e5(E)	8	#25	8.63	
e6(E)	8	#15	8.63	
Reinforcement Bars, Epoxy Coated		kg	9490	
Concrete Superstructure		m³	82.4	
Bridge Deck Grooving		m²	168	
Protective Coat		m²	209	
Form Liner Textured Surface		m²	7	

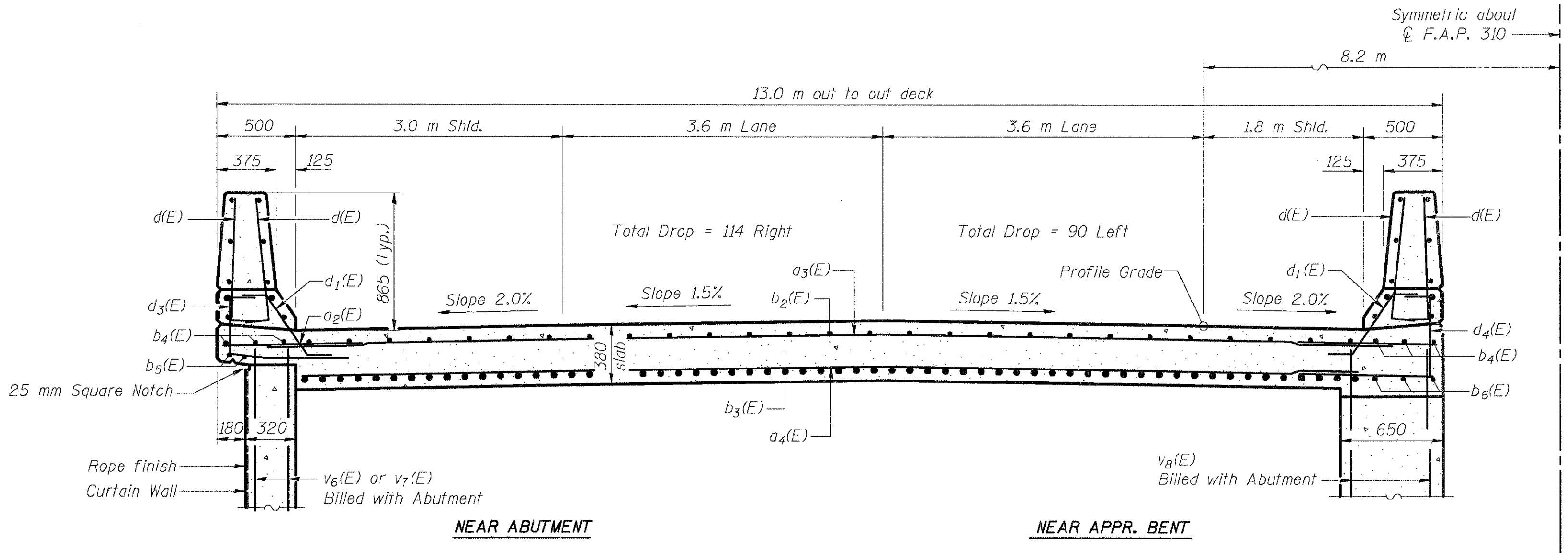
NORTH APPROACH SLABS (1 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

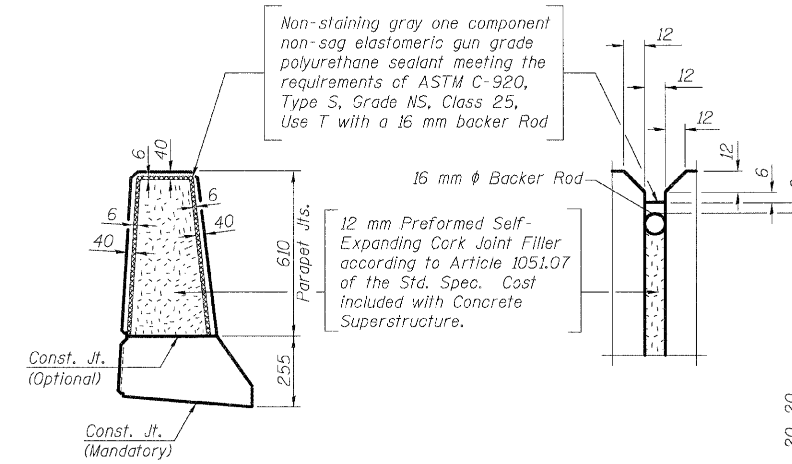
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	111
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

*60-15HB-2 CONTRACT NO. 76624

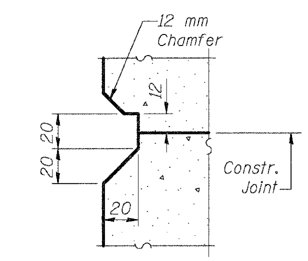
SHEET NO. 10
24 SHEETS



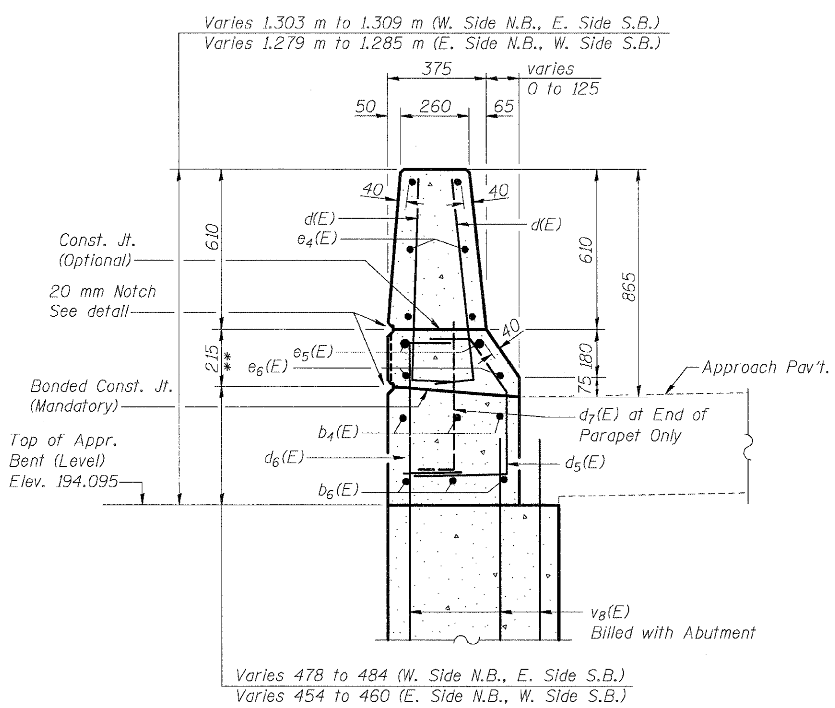
CROSS SECTION
(Looking South)
(N.B. Structure shown, S.B. structure the same, but opposite hand).



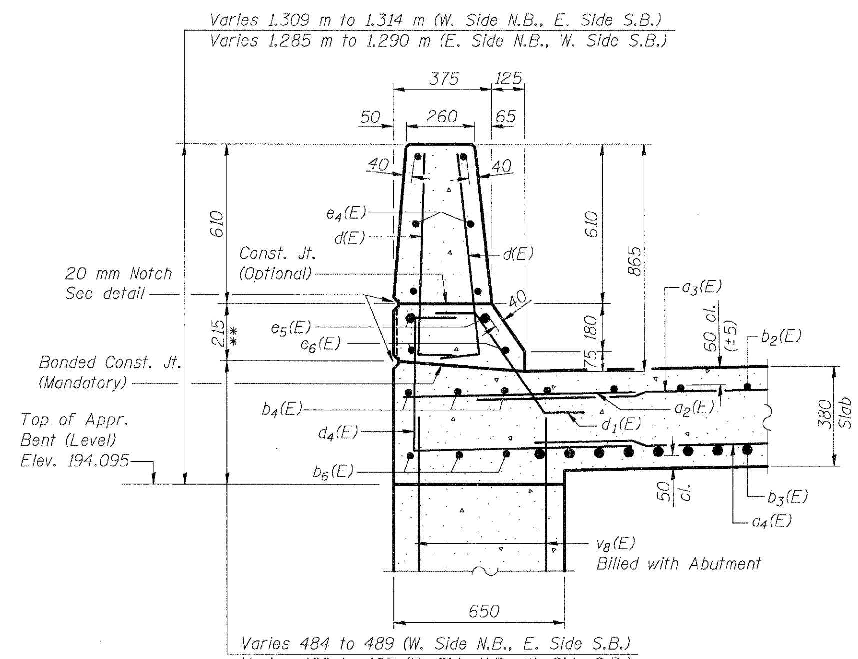
PARAPET JOINT DETAILS



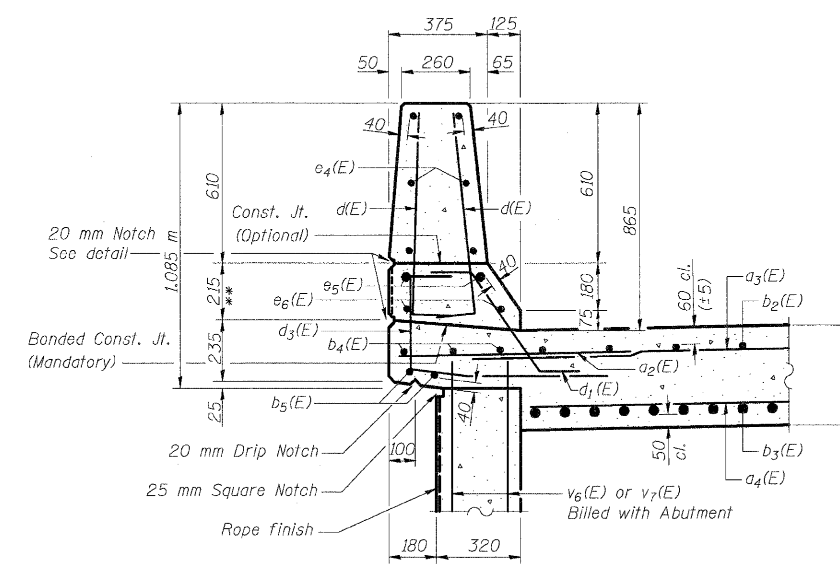
NOTCH DETAIL



SECTION THRU PARAPET (SECTION D-D)



SECTION THRU PARAPET (SECTION F-F)



SECTION THRU PARAPET (SECTION E-E)

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

Note:
Work this sheet with sheet 9 of 24.

** Patterned Rope Texture Concrete.
See Sheet 19 of 24 for details.

NORTH APPROACH SLABS (2 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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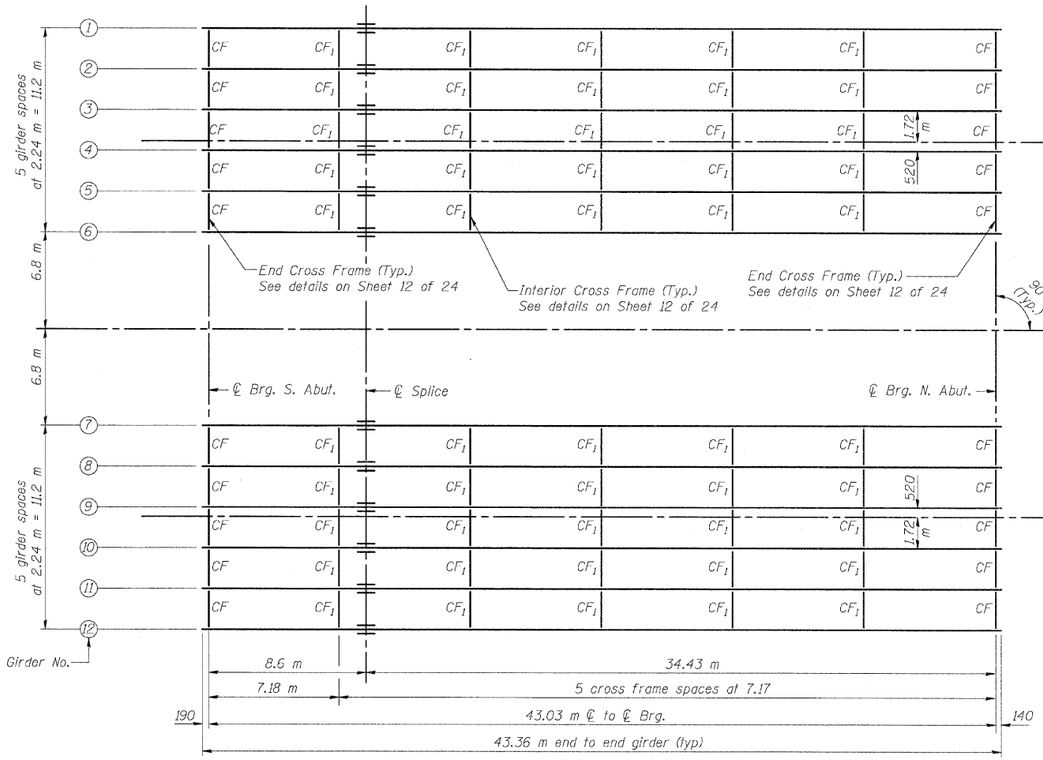
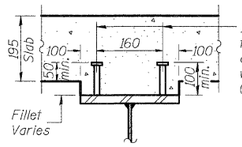
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	112
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11
24 SHEETS

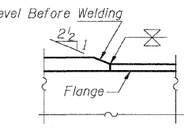
*60-15HB-2 CONTRACT NO. 76624



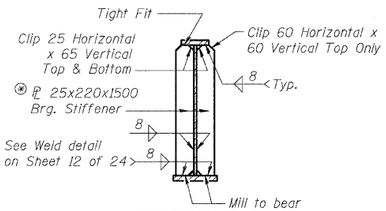
FRAMING PLAN



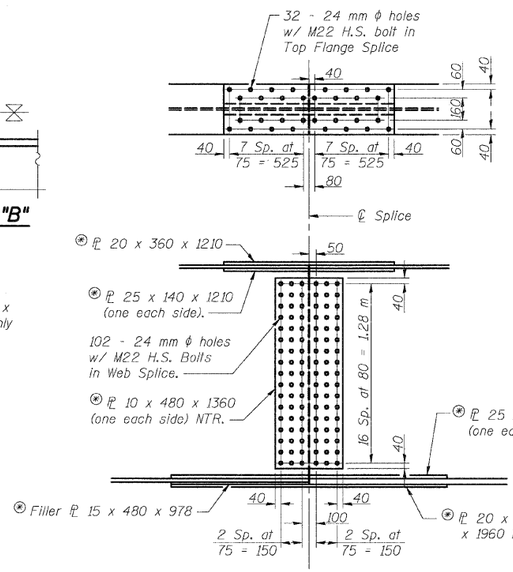
SECTION A-A

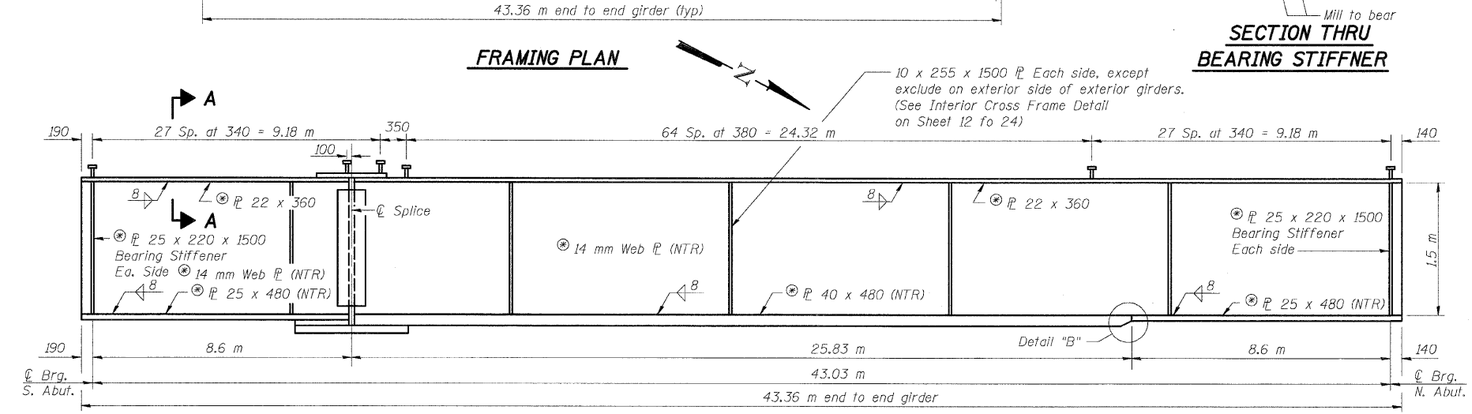


DETAIL "B"



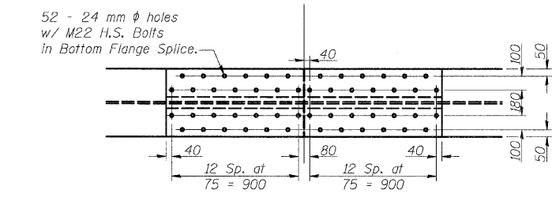
SECTION THRU BEARING STIFFNER





GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.



FIELD SPLICE DETAIL

℄ Indicates structural steel conforming to AASHTO M270M Grade 345

TOP OF WEB ELEVATIONS

(For Fabrication Only)

		Girder #1	Girder #2	Girder #3	Girder #4	Girder #5	Girder #6	Girder #7	Girder #8	Girder #9	Girder #10	Girder #11	Girder #12
	℄ Brg. S. Abut.	194.329	194.374	194.409	194.427	194.394	194.353	194.353	194.394	194.427	194.409	194.374	194.329
**	℄ Splice	194.423	194.468	194.503	194.521	194.488	194.447	194.447	194.488	194.521	194.503	194.468	194.423
	℄ Brg. N. Abut.	194.306	194.351	194.386	194.404	194.371	194.330	194.330	194.371	194.404	194.386	194.351	194.306

** Theoretical elevation before Dead Load Deflection.

Notes:
Work this sheet with sheet 12 of 24.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

FRAMING PLANS & GIRDER DETAILS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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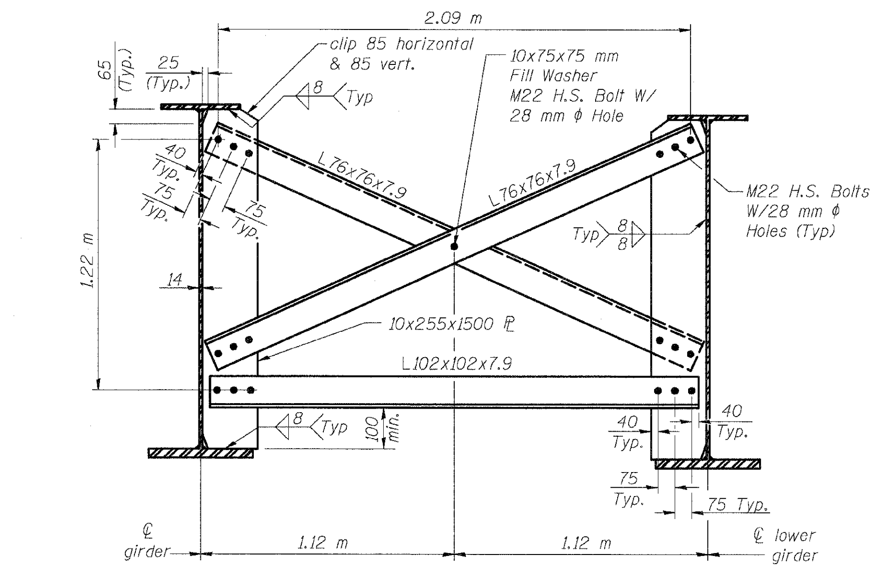


TYPICAL INTERIOR CROSS FRAME (CF_1)

50 Required

S.B. AND N.B. STRUCTURES

INTERIOR GIRDER MOMENT TABLE	
	0.5 Span
Is (10^6 mm^4)	18,317
Ic (n) (10^6 mm^4)	46,212
Ic (3n) (10^6 mm^4)	32,268
Ss (10^3 mm^3)	30,126
Sc (n) (10^3 mm^3)	40,322
Sc (3n) (10^3 mm^3)	36,768
DL (kN/m)	14.55
MDL (kN·m)	3,347
sDL (kN/m)	6.93
MsDL (kN·m)	1,604
MLL (kN·m)	2,048
M (Imp) (kN·m)	385
$^5/_3$[MLL+M(Imp)] (kN·m)	4,055
Ma (kN·m)	11,708
⊛ Mu (kN·m)	15,145
fsDL non-comp (MPa)	111
fsDL (comp) (MPa)	44
fs$^5/_3$(LL+Imp) (MPa)	101
fs (Overload) (MPa)	255
VR (kN)	251

⊛ Compact, Braced Section

INTERIOR GIRDER REACTION TABLE	
	Abutments
RDL (kN)	457
RLL (kN)	212
Imp. (kN)	40
R (Total) (kN)	709

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

$Ic_{(n)}$ and $Sc_{(n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

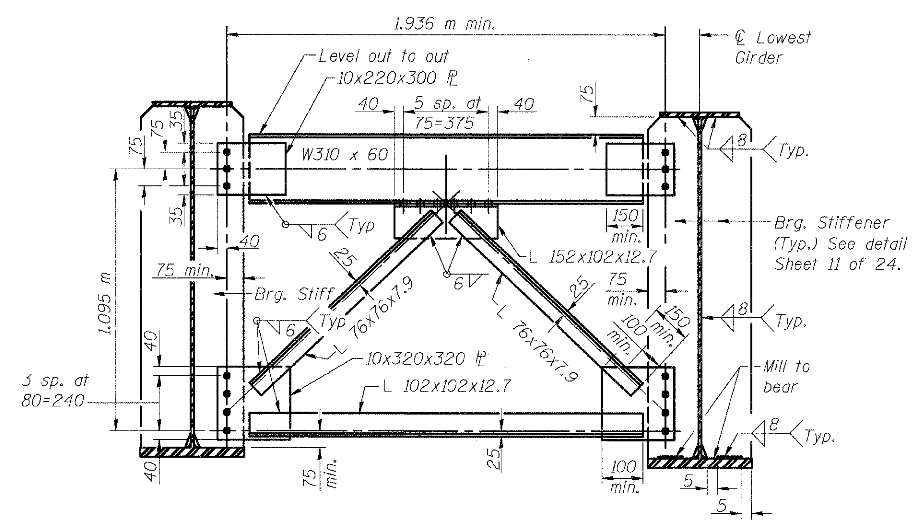
$Ic_{(3n)}$ and $Sc_{(3n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

Ma (Applied Moment)=1.3[MDL + MsDL + $^5/_3$(MLL + M_{imp})].

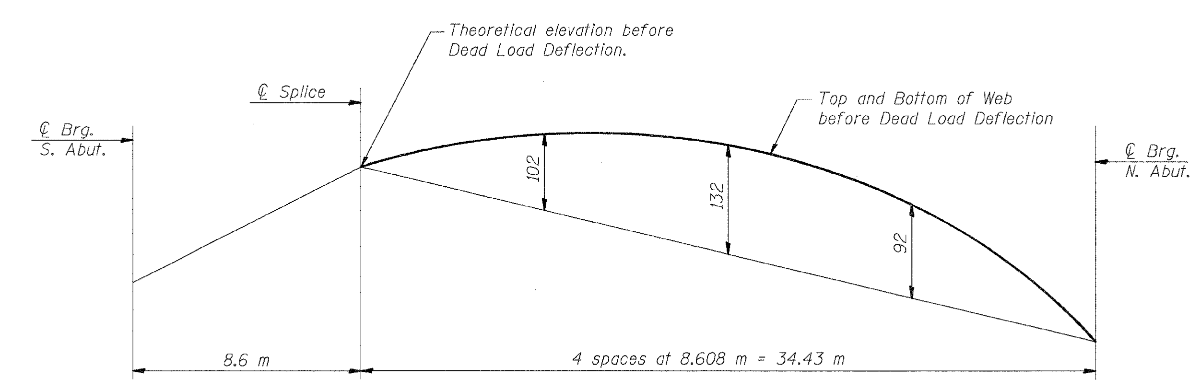
The Plastic Moment capacity (Mu) is computed according to AASHTO 10.50.1.1.

fs (Overload) is the sum of the stresses due to MDL + MsDL + $^5/_3$(MLL + M_{imp}).



TYPICAL END CROSS FRAME (CF)

20 Required



CAMBER DIAGRAM

Notes: In cross frames all bolts are M22 H.S. Bolts with 28 mm ϕ holes.
Two hardened washers shall be required over all 28 mm ϕ holes.
"NTR" Denotes Notch Toughness Requirements - Zone 2.
All Splice plates and bearing Stiffeners shall be AASHTO M270 Grade 345.
Work this sheet with sheet 11 of 24.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

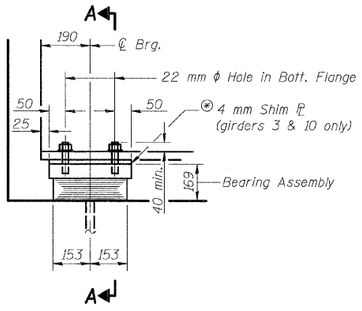
GIRDER DETAILS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

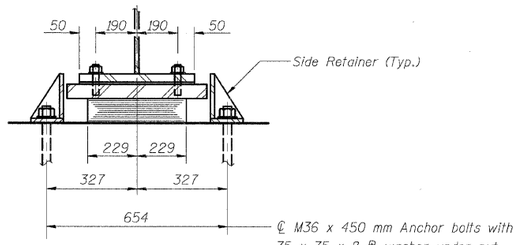
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	114
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 13
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

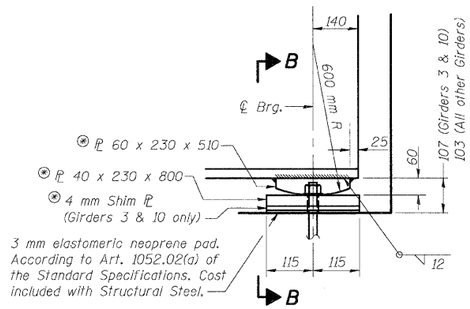


ELEVATION AT S. ABUT.

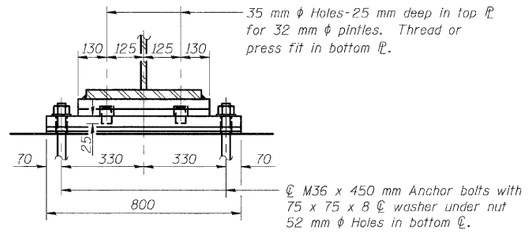


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

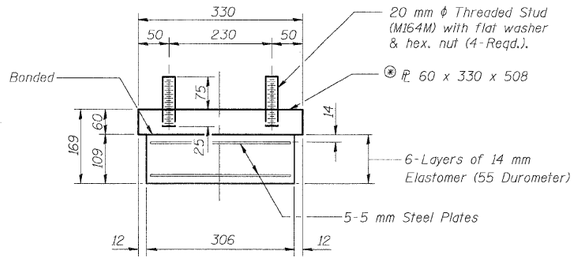


ELEVATION AT N. ABUT.



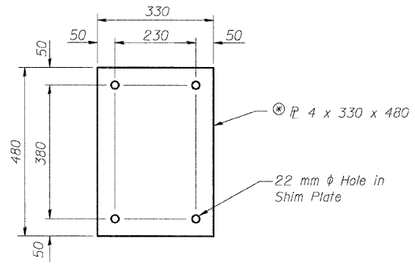
SECTION B-B

FIXED BEARING
(12-Req'd)



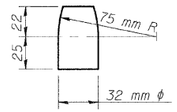
BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.

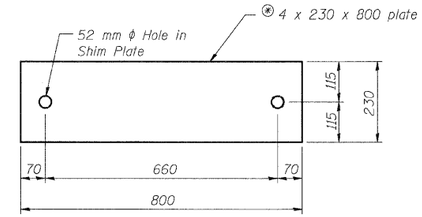


④ 4 mm SHIM PLATE
(2-Req'd)

Note: Use as shown in Type 1 Elastomeric Brg. under girders 3 & 10.

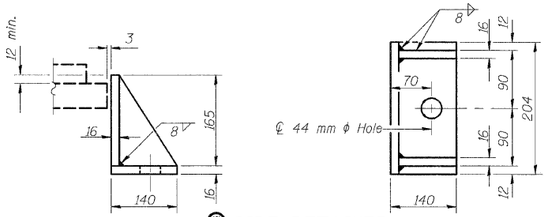


④ PINTLE
(24-Req'd)



④ 4 mm SHIM PLATE
(2-Req'd)

Note: Use as shown with Fixed Bearing under Griders 3 & 10.



④ SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel. (24 Req'd)

④ Steel plates shall conform to the requirements of AASHTO M270M Grade 345.

Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet 21 of 24 for Anchor Bolt installation.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

I-2-E1 (M) 4-30-99

BEARING DETAILS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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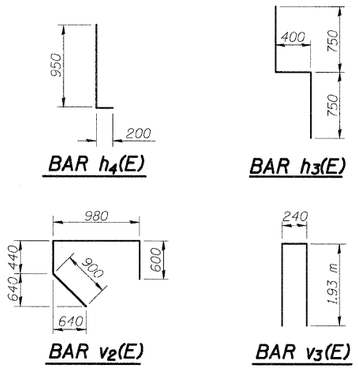
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	115
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
24 SHEETS

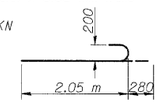
*60-15HB-2 CONTRACT NO. 76624

Notes:
Space reinforcement in cap to miss anchor bolts.
Work this sheet with sheet 15 of 24.
Pour steps monolithically with cap.



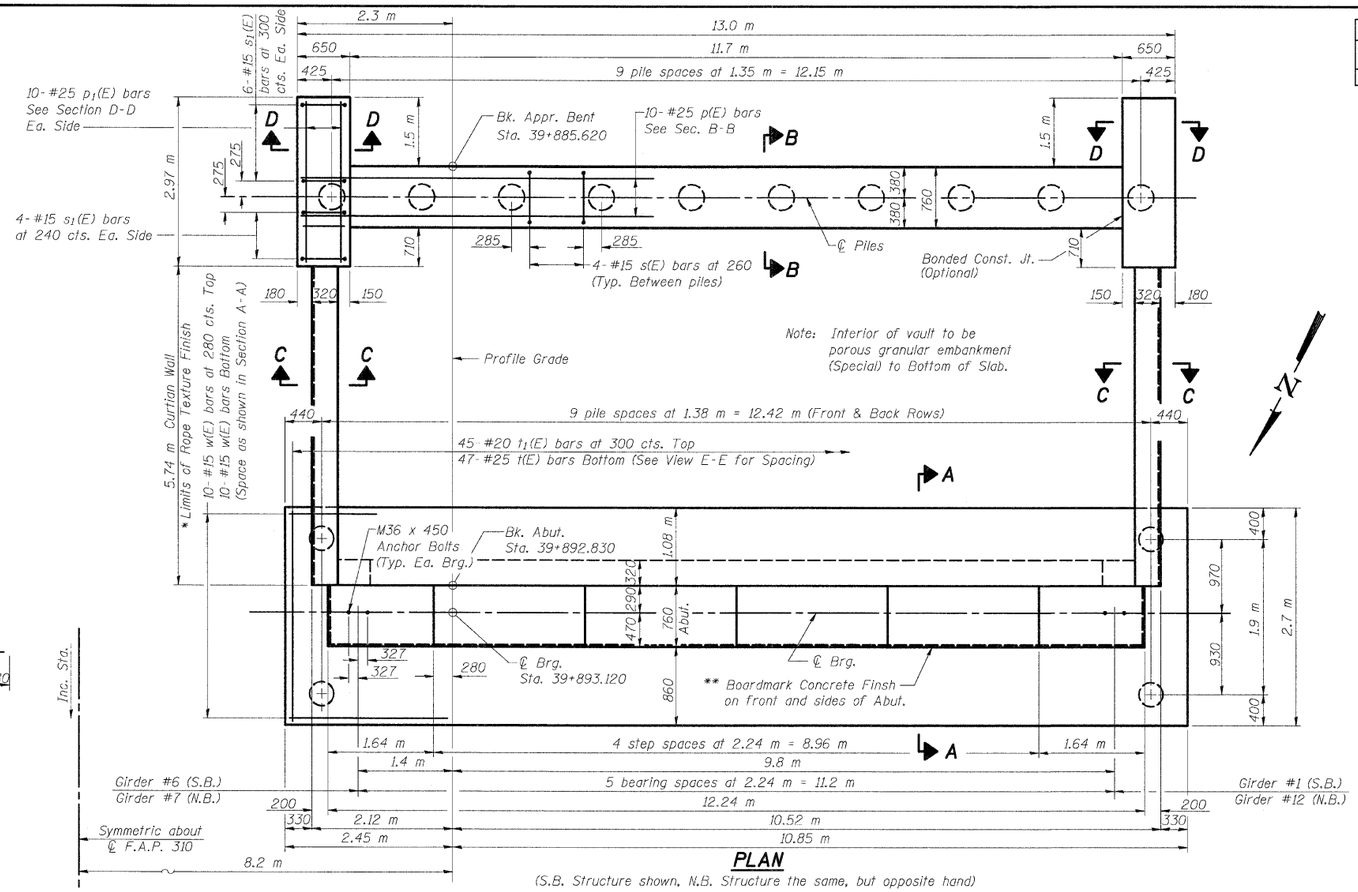
APPR. BENT-PILE DATA
(For Two South Bents)

Type & Size: Metal Shell - 356 mm dia. x 6.35 mm walls
Nominal Required Bearing: 900 KN
Allowable Resistance Available: 300 KN
N.B.S. Est. Length: 14.5 m
N.B.S. No. Req'd. : 10
S.B.S. Est. Length: 14.5 m
S.B.S. No. Req'd. : 10

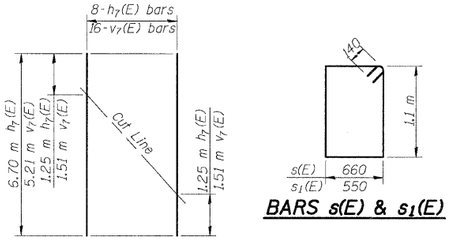


ABUT.-PILE DATA
(For Two South Abutments)

Type & Size: Metal Shell - 356 mm dia. x 6.35 mm walls
Nominal Required Bearing: 1500 KN
Allowable Resistance Available: 500 KN
N.B.S. Est. Length: 16.0 m
N.B.S. No. Req'd. : 20
S.B.S. Est. Length: 17.0 m
S.B.S. No. Req'd. : 19 plus 1 Test Pile

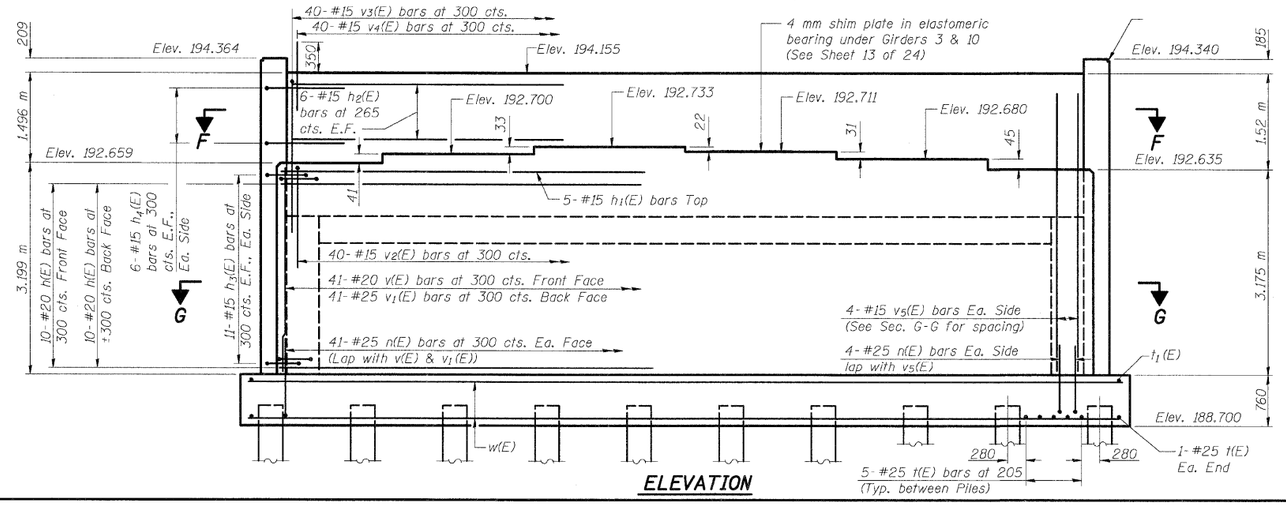


PLAN
(S.B. Structure shown, N.B. Structure the same, but opposite hand)



FIELD CUTTING DIAGRAM
Order $h_7(E)$ & $v_7(E)$ bars full length.
Cut to fit as shown and use remainder of bars in opposite face of wall.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW



ELEVATION

BILL OF MATERIAL FOR TWO SOUTH ABUTMENTS

	Bar	No.	Size	Length (m)	Shape
	h(E)	40	#20	12.16	
	$h_1(E)$	10	#15	12.16	
	$h_2(E)$	24	#15	12.56	
	$h_3(E)$	88	#15	1.90	
	$h_4(E)$	48	#15	1.15	
	$h_5(E)$	8	#20	6.30	
	$h_6(E)$	32	#15	1.00	
	$h_7(E)$	32	#15	6.70	
	$h_8(E)$	40	#15	5.66	
	$h_9(E)$	40	#15	1.40	
	n(E)	212	#25	2.33	
	p(E)	20	#25	12.90	
	$p_1(E)$	40	#25	2.87	
	s(E)	72	#15	3.80	
	$s_1(E)$	40	#15	3.58	
	t(E)	94	#25	2.60	
	$t_1(E)$	90	#20	2.60	
	v(E)	82	#20	3.10	
	$v_1(E)$	82	#25	3.10	
	$v_2(E)$	80	#15	2.92	
	$v_3(E)$	80	#15	4.10	
	$v_4(E)$	80	#15	1.00	
	$v_5(E)$	16	#15	3.80	
	$v_6(E)$	32	#15	4.95	
	$v_7(E)$	64	#15	5.21	
	$v_8(E)$	268	#15	1.00	
	w(E)	40	#15	13.20	
	Concrete Structures		m^3	185.5	
	Reinforcement Bars, Epoxy Coated		kg	13,400	
	Test Piles metal shells		Each	1	
***	Structure Excavation		m^3	332	
	Furnishing Metal Shell Piles 356 mm x 6.35mm		m	933.0	
	Driving Piles		m	933.0	
	Concrete Sealer		m^2	134	
	Porous Granular Embankment (Special)		m^3	341	
	Form Liner Texture Surface		m^2	157	

* Patterned Rope Texture Concrete (See Sheet 19 of 24 for Details) (See Special Provisions)

** Random Width Boardmark Concrete (See Sheet 19 of 24 for details)

*** Structure Excavation is 166 m^3 per Abutment

SOUTH ABUTMENTS (1 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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Note:
Work this sheet with sheet 14 of 24.

* Order $h_7(E)$ & $v_7(E)$ bars full length cut to fit as shown and use remainder of bars in opposite face of curtain wall. See Field Cutting Diagram on Sheet 14 of 24.

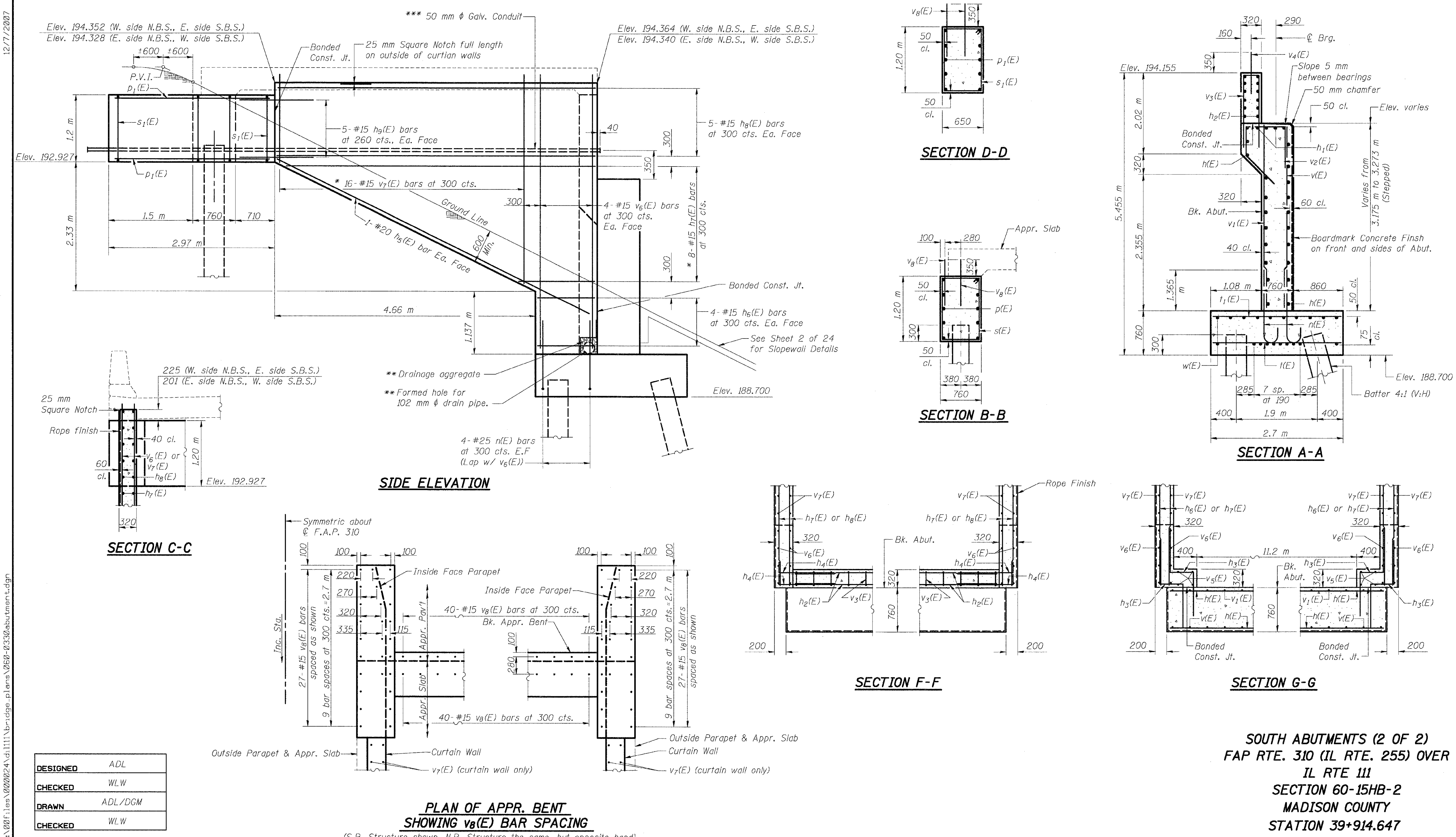
** See Vaulted Abutment & Slopewall Detail on sheet 2 of 24.

*** 50 mm ϕ Galvanized Conduit (Sch. 40 pipe) shall conform to the requirements ANSI C 80.1 or UL 1242. Thread and cap each end. Cost included with Concrete Structures. (See Details Sheet 2 of 24).

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	116
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
24 SHEETS

* 60-15HB-2 CONTRACT NO. 76624



DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

SOUTH ABUTMENTS (2 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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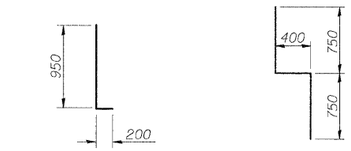
Notes:
Space reinforcement in cap to miss anchor bolts.
Work this sheet with sheet 17 of 24.
Pour steps monolithically with cap.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	117
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

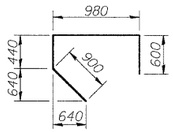
SHEET NO. 16
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

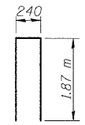


BAR $h_4(E)$

BAR $h_3(E)$



BAR $v_2(E)$



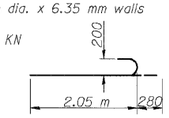
BAR $v_{11}(E)$

APPR. BENT-PILE DATA
(For Two North Bents)

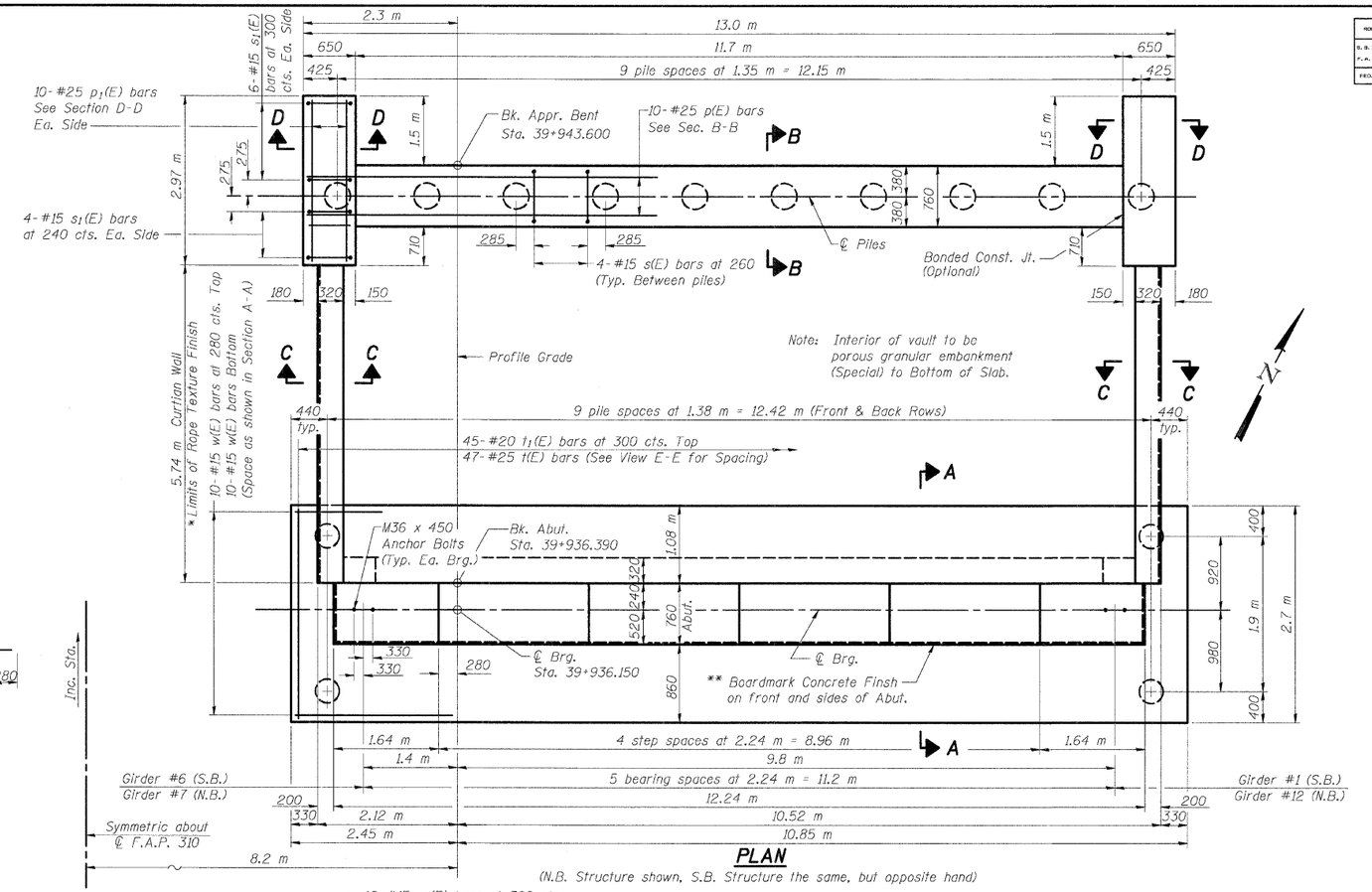
Type & Size: Metal Shell - 356 mm dia. x 6.35 mm walls
Nominal Required Bearing: 900 KN
Allowable Resistance Available: 300 KN
N.B.S. Est. Length: 16.0 m
N.B.S. No. Req'd.: 10
S.B.S. Est. Length: 14.5 m
S.B.S. No. Req'd.: 10

ABUT.-PILE DATA
(For Two North Abutments)

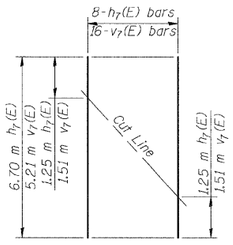
Type & Size: Metal Shell - 356 mm dia. x 6.35 mm walls
Nominal Required Bearing: 1500 KN
Allowable Resistance Available: 500 KN
N.B.S. Est. Length: 17.5 m
N.B.S. No. Req'd.: 19 plus 1 Test Pile
S.B.S. Est. Length: 16.0 m
S.B.S. No. Req'd.: 20

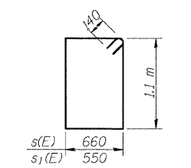


BAR n(E)



PLAN
(N.B. Structure shown, S.B. Structure the same, but opposite hand)

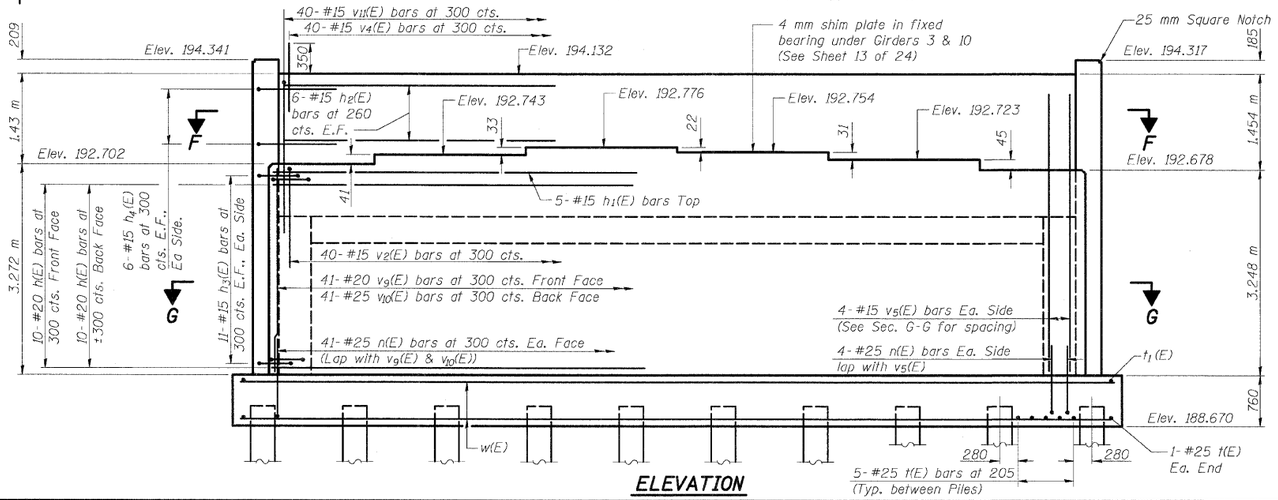




BARS s(E) & $s_1(E)$

FIELD CUTTING DIAGRAM
Order $h_7(E)$ & $v_7(E)$ bars full length.
Cut to fit as shown and use remainder of bars in opposite face of wall.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW



ELEVATION

BILL OF MATERIAL FOR TWO NORTH ABUTMENTS

Bar	No.	Size	Length (m)	Shape
h(E)	40	#20	12.16	
$h_1(E)$	10	#15	12.16	
$h_2(E)$	24	#15	12.56	
$h_3(E)$	88	#15	1.90	
$h_4(E)$	48	#15	1.15	
$h_5(E)$	8	#20	6.30	
$h_6(E)$	32	#15	1.00	
$h_7(E)$	32	#15	6.70	
$h_8(E)$	40	#15	5.66	
$h_9(E)$	40	#15	1.40	
n(E)	212	#25	2.33	
p(E)	20	#25	12.90	
$p_1(E)$	40	#25	2.87	
s(E)	72	#15	3.80	
$s_1(E)$	40	#15	3.58	
t(E)	94	#25	2.60	
$t_1(E)$	90	#20	2.60	
$v_2(E)$	80	#15	2.92	
$v_4(E)$	80	#15	1.00	
$v_5(E)$	16	#15	3.80	
$v_6(E)$	32	#15	4.95	
$v_7(E)$	64	#15	5.21	
$v_8(E)$	268	#15	1.00	
$v_9(E)$	82	#20	3.17	
$v_{10}(E)$	82	#25	3.17	
$v_{11}(E)$	80	#15	3.98	
w(E)	40	#15	13.20	

Concrete Structures		m^3	186.4
Reinforcement Bars, Epoxy Coated		kg	13,420
Test Piles metal shells		Each	1
*** Structure Excavation		m^3	332
Furnishing Metal Shell Piles 356 mm x 6.35mm		m	957.5
Driving Piles		m	957.5
Concrete Sealer		m^2	134
Porous Granular Embankment (Special)		m^3	343
Form Liner Texture Surface		m^2	159

* Patterned Rope Texture Concrete (See Sheet 19 of 24 for Details) (See Special Provisions)

** Random Width Boardmark Concrete (See Sheet 19 of 24 for details)

*** Structure Excavation is 166 m^3 per Abutment

NORTH ABUTMENTS (1 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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Note:
Work this sheet with sheet 16 of 24.

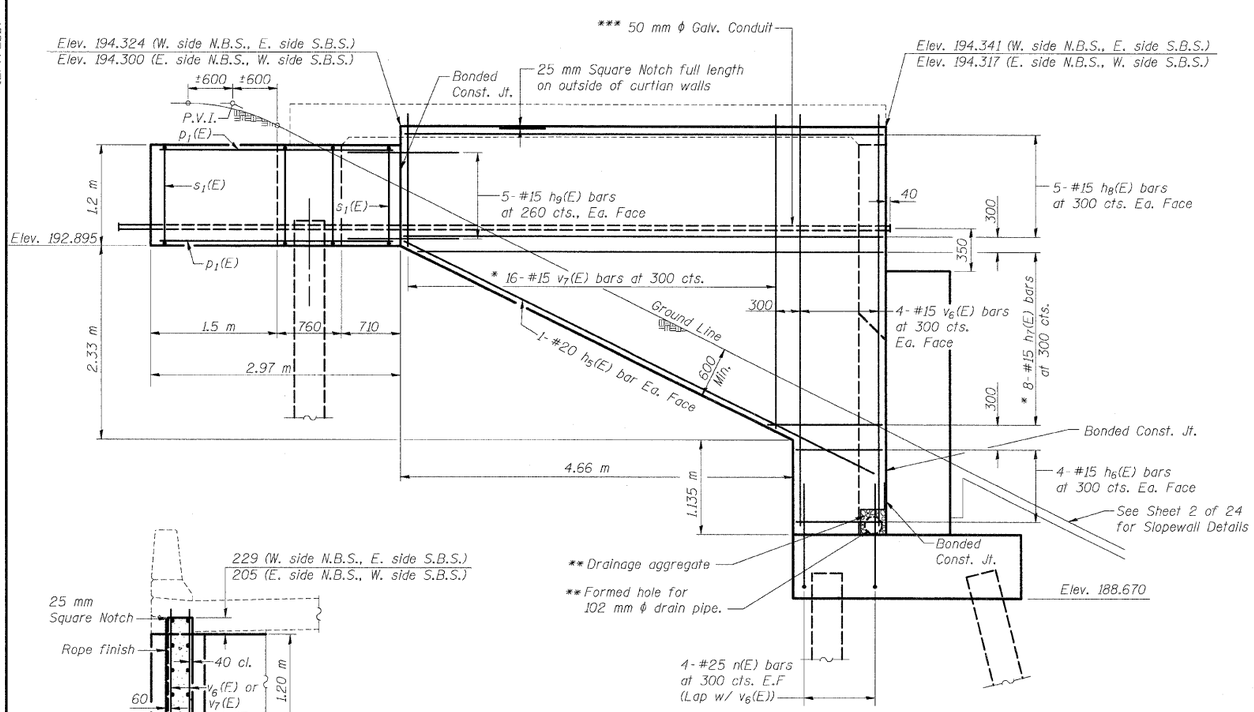
* Order $h_7(E)$ & $v_7(E)$ bars full length cut to fit as shown and use remainder of bars in opposite face of curtain wall. See Field Cutting Diagram on Sheet 16 of 24.

** See Vaulted Abutment & Slopewall Detail on sheet 2 of 24.

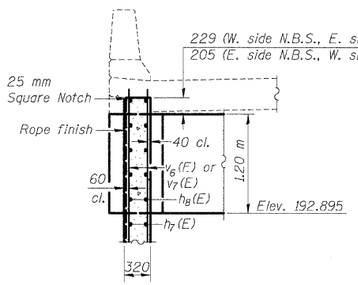
*** 50 mm ϕ Galvanized Conduit (Sch. 40 pipe) shall conform to the requirements ANSI C 80.1 or UL 1242. Thread and cap each end. Cost included with Concrete Structures. (See Details Sheet 2 of 24).

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	118
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

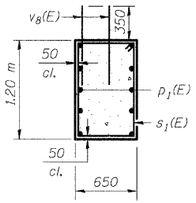
SHEET NO. 17
24 SHEETS
* 60-15HB-2 CONTRACT NO. 76624



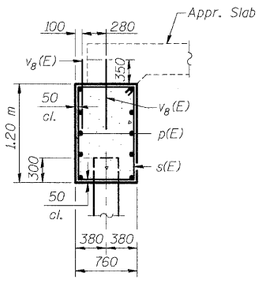
SIDE ELEVATION



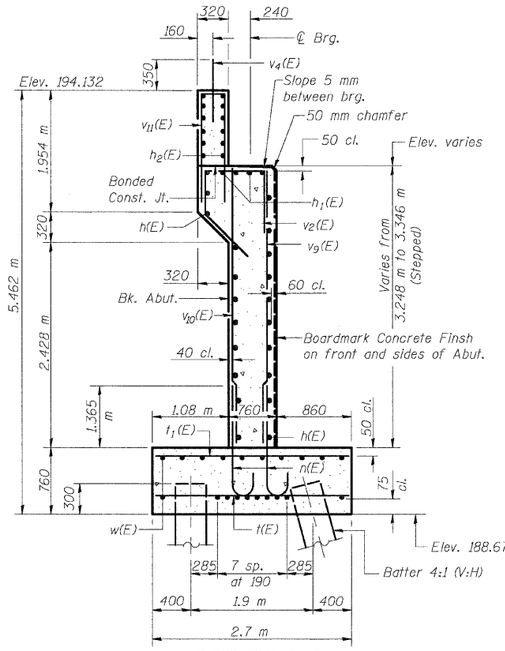
SECTION C-C



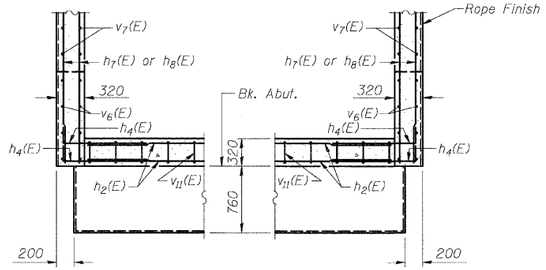
SECTION D-D



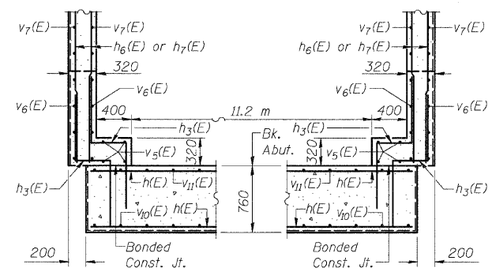
SECTION B-B



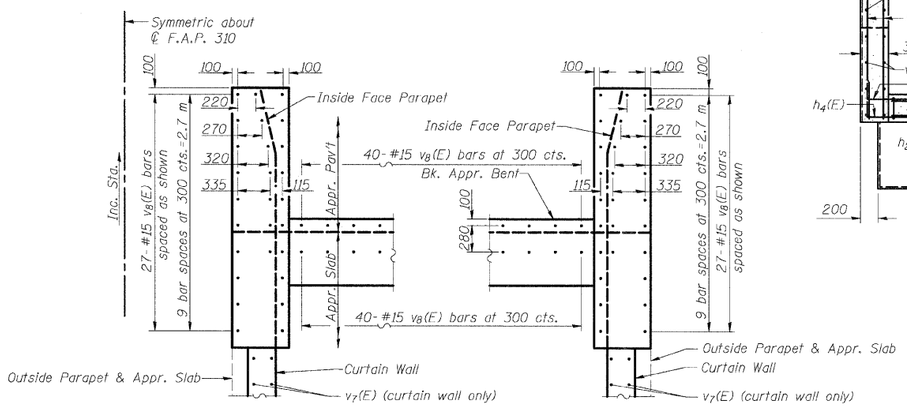
SECTION A-A



SECTION F-F



SECTION G-G



PLAN OF APPR. BENT SHOWING $v_8(E)$ BAR SPACING

(N.B. Structure shown, S.B. Structure the same, but opposite hand)

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

NORTH ABUTMENTS (2 OF 2)
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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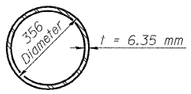
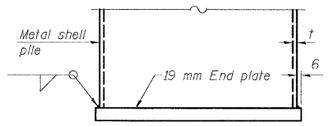
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. F. 310	*	MADISON	272	119
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 18
24 SHEETS

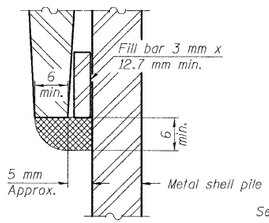
*60-15HB-2 CONTRACT NO. 76624



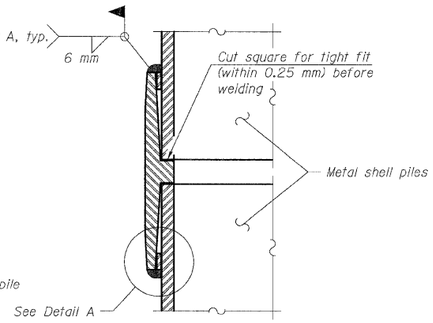
METAL SHELL PILE



END PLATE ATTACHMENT

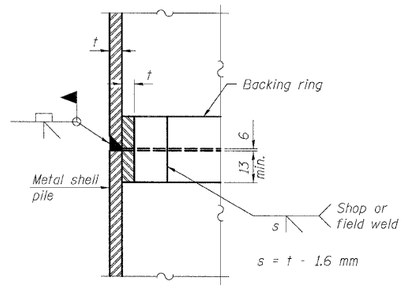


DETAIL A



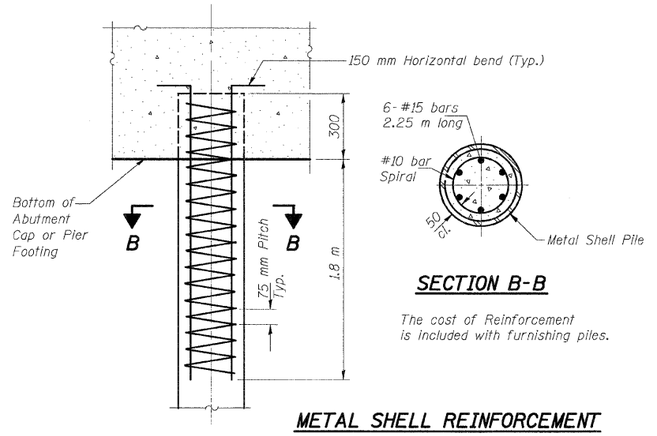
Notes:
The 3 x 12.7 mm min. fill bar may be constructed of 2 bars with a 3 mm max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



COMPLETE PENETRATION WELD SPLICE

Backing ring made from pile shell. Remove segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



SECTION B-B

The cost of Reinforcement is included with furnishing piles.

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

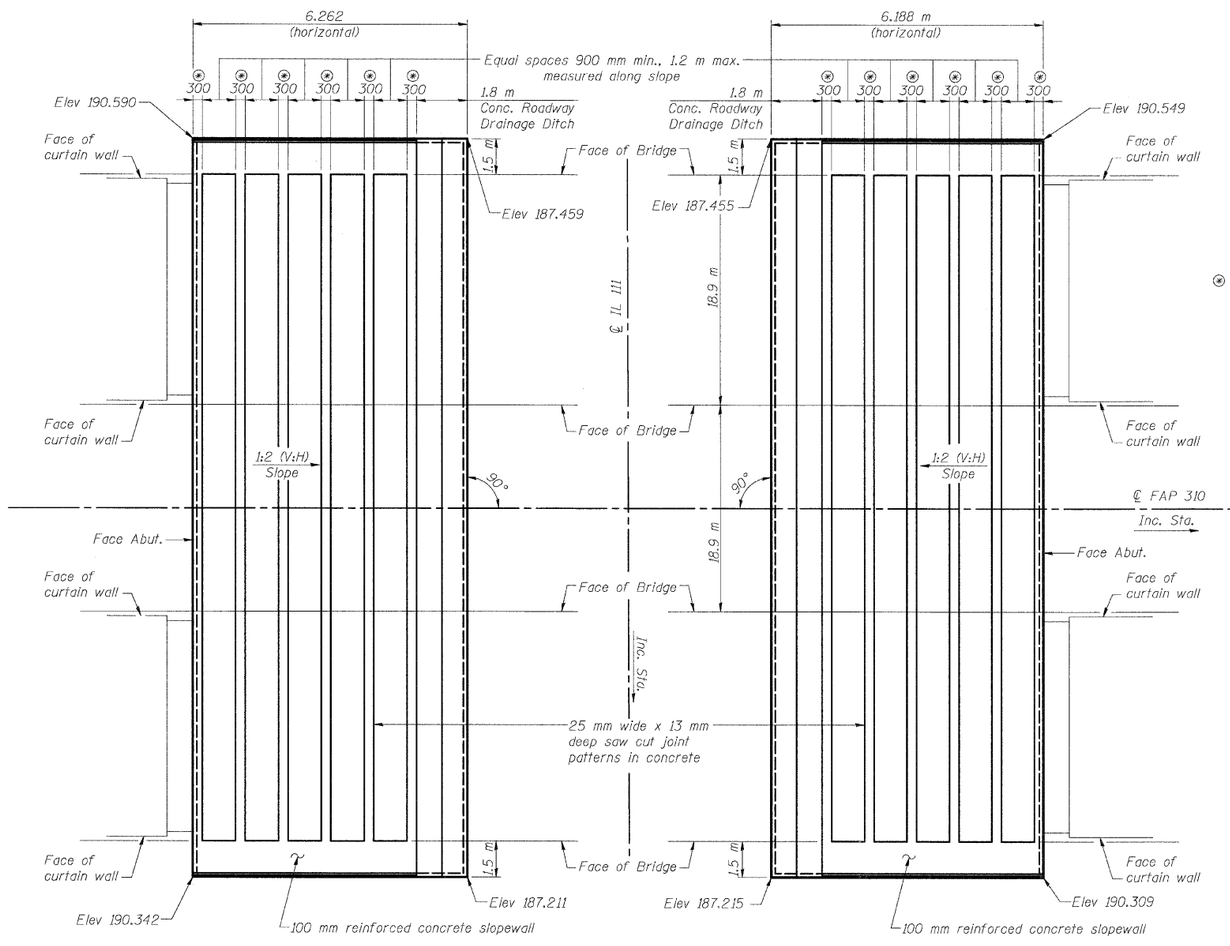
PILE DETAILS
FAP RTE. 310 (IL RTE. 255) OVER IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. F. A. P. 310	*	MADISON	272	120
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 19
24 SHEETS

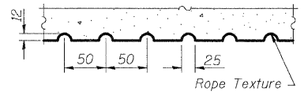
*60-15HB-2 CONTRACT NO. 76624



⊛ Dimensions measured along slope.

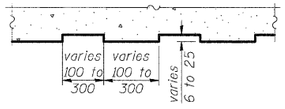
CONCRETE SLOPEWALL PLAN

Note: See Sheet 2 of 24 for Slopewall Details.
Dimensions are measured horizontally unless noted.
Cost of 25 mm wide by 13 mm deep saw cut joints shall be included in the cost of "Concrete Slopewall, Special"



ROPE TEXTURE CONCRETE DETAIL

The use of reverse image polyvinyl plastic sheets (form liners) attached to concrete forms, will produce the textured surfaces as depicted.



RANDOM WIDTH BOARDMARK CONCRETE DETAIL

Wood Grain, Hi-Lo, Rough Sawn Cedar
Random Widths Min. 100, Max. 300
Random Lengths: Min. 3 m, Max. 6 m
Board thicknesses varying from 6 mm to 25 mm should be used in a random pattern.

BILL OF MATERIAL

Item	Unit	Quantity
Slope Wall, Special	m^2	717

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

SLOPEWALL AND CONCRETE TEXTURE DETAILS
FAP RTE. 310 (IL RTE. 255) OVER IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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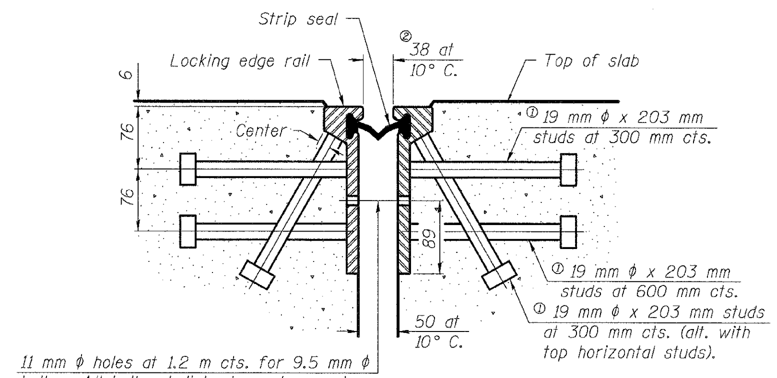
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 310	*	MADISON	272	121
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
24 SHEETS

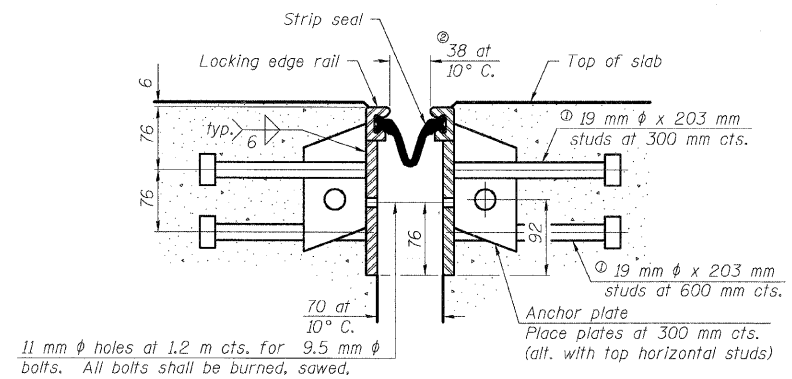
*60-15HB-2 CONTRACT NO. 76624

① Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

② When joint is fixed, dimension is set at 38 mm.



SECTION THRU ROLLED RAIL JOINT



SECTION THRU WELDED RAIL JOINT

Notes:

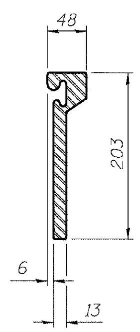
The strip seal shall be made continuous and shall have a minimum thickness of 6 mm. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 102 mm.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

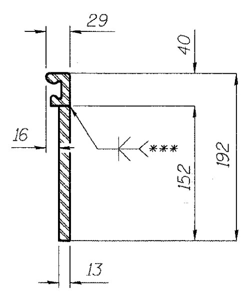
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

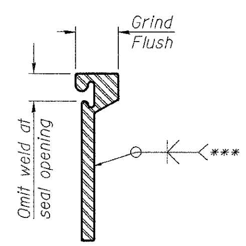
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



ROLLED (EXTRUDED) RAIL



WELDED RAIL

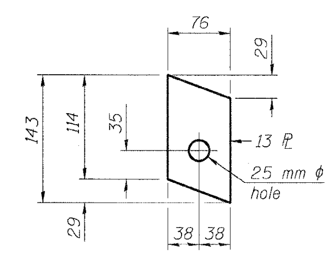


*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

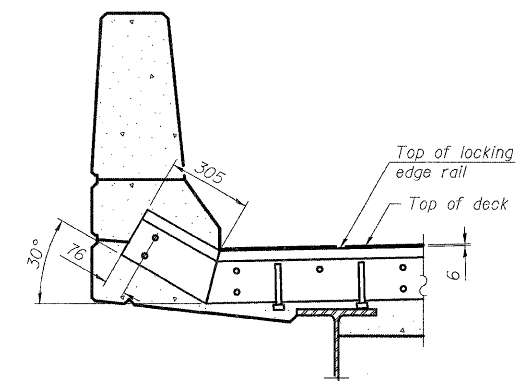
The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



ANCHOR ℙ

(for welded rail)



AT PARAPET

END TREATMENT

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	m	50.5

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

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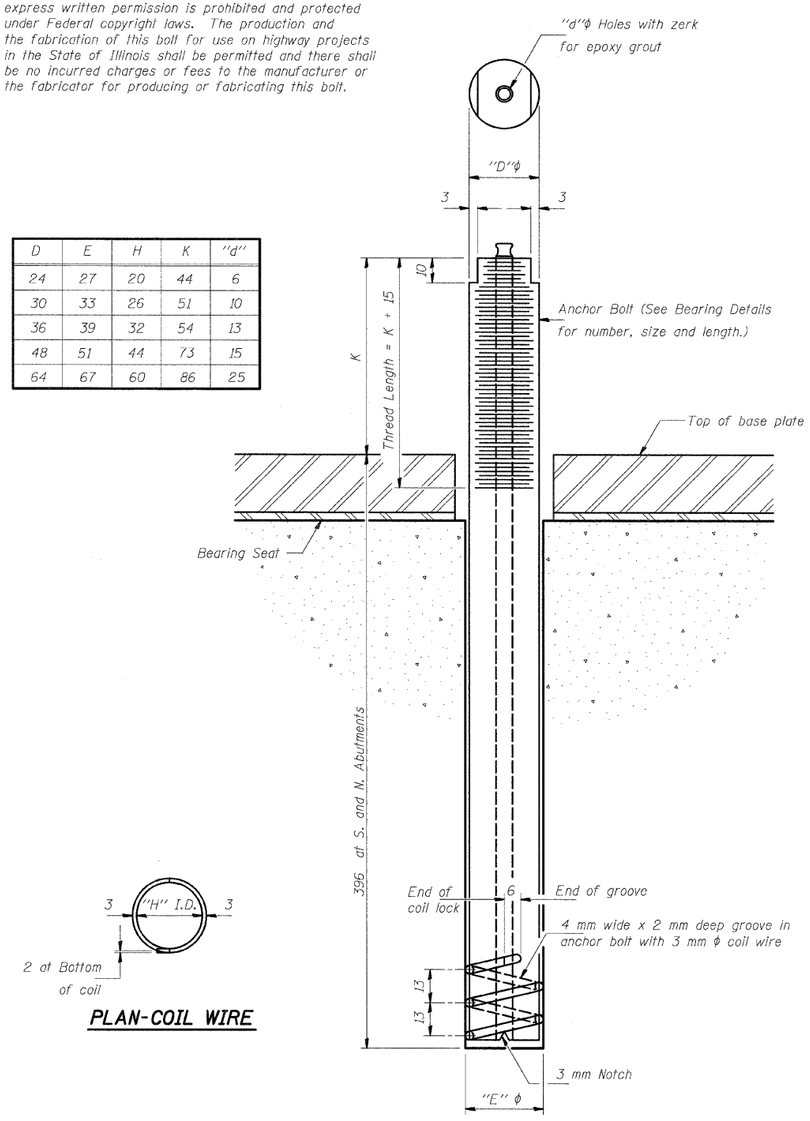
PREFORMED JOINT STRIP SEAL
FAP RTE. 310 (IL RTE. 255) OVER IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

D	E	H	K	"d"
24	27	20	44	6
30	33	26	51	10
36	39	32	54	13
48	51	44	73	15
64	67	60	86	25



ILLINOIS COIL-LOCK ANCHOR BOLT

PLAN-COIL WIRE

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system comforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
S. Abut.	A307
N. Abut.	A307

ASTM F 1554 (Fy = 724 MPa), ASTM A 449 and AASHTO M 314 (Fy = 724 MPa) anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. P. 310	*	MADISON	272	122
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 21
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

DESIGNED	ADL
CHECKED	WLW
DRAWN	ADL/DGM
CHECKED	WLW

ABB-1 (M) 4-30-99

ANCHOR BOLT DETAILS
FOR BEARINGS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford
SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM
COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0331 SB
Station
BORING NO. US-SB1
Station 39+893
Offset 17.00m LT
Ground Surface Elev. 186.93 m

Surface Water Elev. m
Stream Bed Elev. m
Groundwater Elev.:
First Encounter 181.8 m
Upon Completion m
After Hrs. m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Asphalt/Rock Parking Lot			
186.6			
Gray Silty CLAY			
	7		
	4	211	
	5	S10	23
-1.5	3		
	4	172	
	5	S10	24
	2		
	4	125	
	4	S10	26
-3.0	4		
	4	211	
	6	S10	22
183.5			
Brown & Gray Clay LOAM			
	3		
	4	153	
	5	S10	23
-4.5	2		
	3	86	
	4	S10	21
	4		
	6	201	
	9	B	14
181.2			
Brown Sandy Clay LOAM			
-6.0			
Brown Sandy Clay LOAM (continued)			
	6	422	
	13	S20	12
	19		
180.2			
Brown SAND	10		
179.9	19	249	13
Brown & Gray Clay LOAM	15	S10	17
-7.5	8		
	16	584	
	22	S15	13
	7		
	17	469	
	22	B	12
-9.0	6		
	12	345	
	18	B	13
-10.5	5		
	7	230	
	12	S15	15
-12.0			

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)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford
SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM
COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0331 SB
Station
BORING NO. US-SB1
Station 39+893
Offset 17.00m LT
Ground Surface Elev. 186.93 m

Surface Water Elev. m
Stream Bed Elev. m
Groundwater Elev.:
First Encounter 181.8 m
Upon Completion m
After Hrs. m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown & Gray Clay LOAM (continued)			
	6		
	9	249	21
	13	S15	
-13.5	7		
	11	335	
	13	S15	22
	10		
	15	546	19
	18	S15	
-16.5	8		
	11	383	
	13	S15	21
-18.0			
Brown & Gray Clay LOAM (continued)			
168.8			
End of Boring			
	7	297	17
	48	S15	
	50/1"		
-19.5			
-21.0			
-22.5			
-24.0			

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)

Illinois Department of Transportation
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SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford
SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM
COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0330 NB
Station 130963.41
BORING NO. US-SB2
Station 39+889
Offset 12.00m RT
Ground Surface Elev. 186.61 m

Surface Water Elev. m
Stream Bed Elev. m
Groundwater Elev.:
First Encounter 182.3 m
Upon Completion m
After Hrs. m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown & Gray Silty Clay LOAM			
	2		
	4	153	
	6	S5	23
185.4			
Gray Silty CLAY			
-1.5	4		
	4	192	
	5	S10	22
184.7			
Gray & Brown Clay LOAM			
	3		
	4	230	
	6	S10	21
-3.0	3		
	5	211	
	6	S10	19
	3		
	3	153	
	4	S10	15
▼ 4.5	1		
	2	105	
	3	S10	19
	4		
	9	393	
	11	S20	13
180.9			
(very sandy & gravelly)			
-6.0			
(very sandy & gravelly) (continued)			
180.5	16	220	12
	26	S6	
Brown SILT	34	201	
180.2			
Gray Clay LOAM		S6	23
	3		
	9	565	
	17	S15	11
-7.5	11		
	16	489	
	21	S15	11
	8		
	13	498	
	20	B	12
-9.0	6		
	10	278	
	13	B	13
-10.5	5		
	11	316	
	15	B	13
175.5			
Brown Clay LOAM			
-12.0			

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)

SOIL BORING LOGS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 310	*	MADISON	272	124
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 23
24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford

SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM

COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0330 NB
Station 130963.41

BORING NO. US-SB2
Station 39+889
Offset 12.00m RT
Ground Surface Elev. 186.61 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 182.3 m ▼
Upon Completion ____ m
After ____ Hrs. ____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Clay LOAM (continued)			
	5	278	
	8	S/10	20
	12		
-13.5	5		
	14	441	
	17	B	16
172.4			
Large Cobbles Rough & Hard Drilling			
171.9			
Brown Clay LOAM			
-15.0	11		
	22	575	
	26	B	18
-16.5	6		
	10	364	
	14	S/15	22
169.2			
Large Gravel/Cobbles			
168.8			
Limestone Gravel			
168.6-18.0			

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
End of Boring	504.8*	393	
		S/S	18
-19.5			
-21.0			
-22.5			
-24.0			

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)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford

SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM

COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0331 SB
Station 130953.44

BORING NO. US-SB3
Station 39+939.84
Offset 11.50m LT
Ground Surface Elev. 188.04 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 183.1 m ▼
Upon Completion ____ m
After ____ Hrs. ____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Silt LOAM with rubble fill concrete & rock (fill)			
187.4			
Brown & Gray Silty CLAY	2		
	3	134	
	3	S/15	26
-1.5	2		
	3	144	
	4	S/15	24
	2		
	3	153	
	5	S/10	24
185.3			
Brown & Gray Clay LOAM			
-3.0	2		
	4	153	
	4	S/15	20
	2		
	4	153	
	4	S/10	22
-4.5	2		
	2	57	
	3	S/10	22
183.1 ▼			
Brown Fine SAND 182.9			
Brown Clay LOAM	10		
	16	402	
	20	S/15	12
-6.0			

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Clay LOAM (continued)			
	5	316	
	7	B	17
	10		
	10		
181.1	37	489	11
Brown SAND 181.0		S/10	
Brown & Gray Sandy SILT			17
	24		
-7.5	15		
	22	278	
180.2	24	S/S	18
Gray Clay LOAM			
	10		
	11	297	
	12	S/15	11
-9.0	9		
	11	364	
	14	B	12
-10.5	8		
	16	469	
	21	S/15	12
-12.0			

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)

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SOIL BORING LOG

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ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford

SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM

COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0331 SB
Station 130953.44

BORING NO. US-SB3
Station 39+939.84
Offset 11.50m LT
Ground Surface Elev. 188.04 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 183.1 m ▼
Upon Completion ____ m
After ____ Hrs. ____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray Clay LOAM (continued)			
	6	326	
	10	B	14
	15		
-13.5	6		
	8	278	
	12	S/10	24
-15.0	8		
	11	402	
	14	S/15	20
-16.5	6		
	10	402	
	14	S/15	20
170.9			
Brown Clay LOAM			
-18.0			

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Clay LOAM (continued)			
169.7	8	393	
	14	B	22
	18		
End of Boring			
-19.5			
-21.0			
-22.5			
-24.0			

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)

SOIL BORING LOGS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 310	*	MADISON	272	125
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 24

24 SHEETS

*60-15HB-2 CONTRACT NO. 76624

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford

SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM

COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0330 NB
Station 130953.44

BORING NO. US-SB4
Station 39+941
Offset 14.40m RT
Ground Surface Elev. 187.64 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 183.3 m ▼
Upon Completion _____ m
After _____ Hrs. _____ m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown & Gray Silty CLAY with some rock & rubble					
			2		
			2	134	
			2	B	21
		-1.5	2		
			3	115	
			3	S/15	26
	185.7				
Gray & Brown Clay LOAM					
			3		
			4	153	
			5	S/15	22
		-3.0	3		
			4	172	
			5	S/10	22
			3		
			3	153	
			3	S/10	22
		▼ -4.5	2		
			2	96	
			4	B	20
			5		
			7	201	
			11	S/15	14
		-6.0			
Gray & Brown Clay LOAM (continued)			5	249	
			8	S/10	12
			10		
	181.2				
Gray Clay LOAM					
			3		
			6	172	
			8	S/10	12
	180.4				
Gray SILT					
	180.1	-7.5	14		
Gray Clay LOAM with limestone gravel			15	383	
			19	S/15	9
			4		
			6	230	
			10	S/10	13
		-9.0	5		
			8	268	
			13	S/15	12
		-10.5	8		
			15	517	
			22	B	11
		-12.0			

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)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 5/2/01

ROUTE FAP 310 DESCRIPTION IL 255 OVER US 67/IL 111 LOGGED BY Larry Ford

SECTION 60-15HB-2 LOCATION Godfrey, SEC. 14, TWP. 6N, RNG. 10W, 3 PM

COUNTY MADISON DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 060-0330 NB
Station 130953.44

BORING NO. US-SB4
Station 39+941
Offset 14.40m RT
Ground Surface Elev. 187.64 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 183.3 m ▼
Upon Completion _____ m
After _____ Hrs. _____ m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray Clay LOAM with limestone gravel (continued)			5	249	
			8	B	16
			11		
		-13.5	4		
			9	3161	
			12	S/15	22
		-15.0	4		
			4	230	
			10	S/15	19
	172.0				
Brown Clay LOAM					
		-16.5	8		
			15	489	
			17	B	23
		-18.0			
Brown Clay LOAM (continued)			6	345	
			11	S/15	15
			15		
		-19.5	6		
			10	192	
	167.8		12	S/10	21
End of Boring					
		-21.0			
		-22.5			
		-24.0			

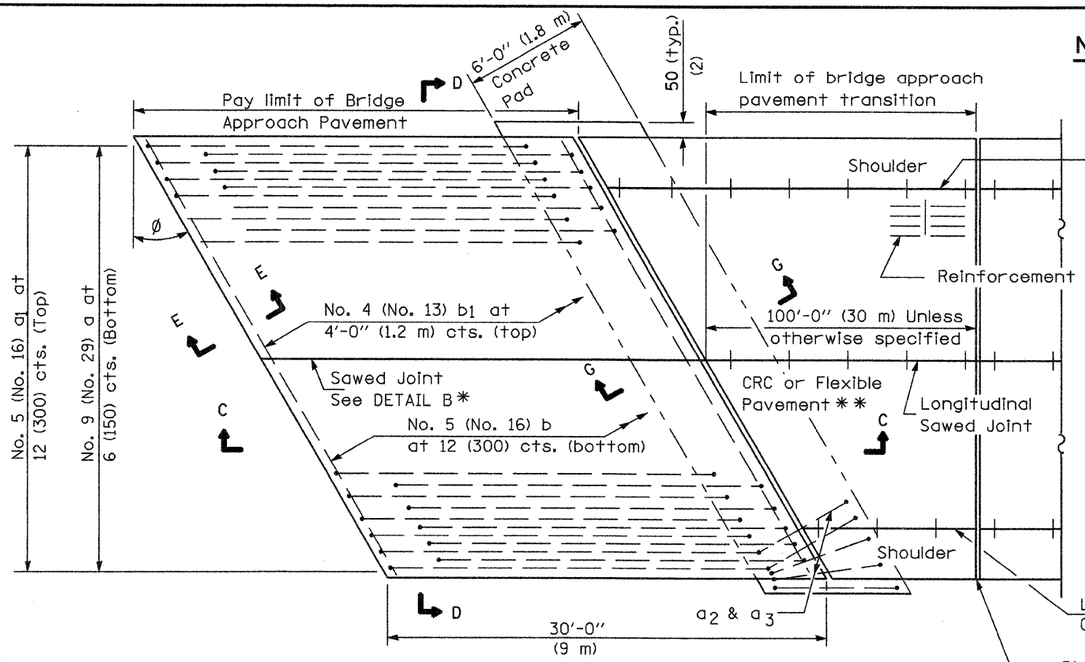
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

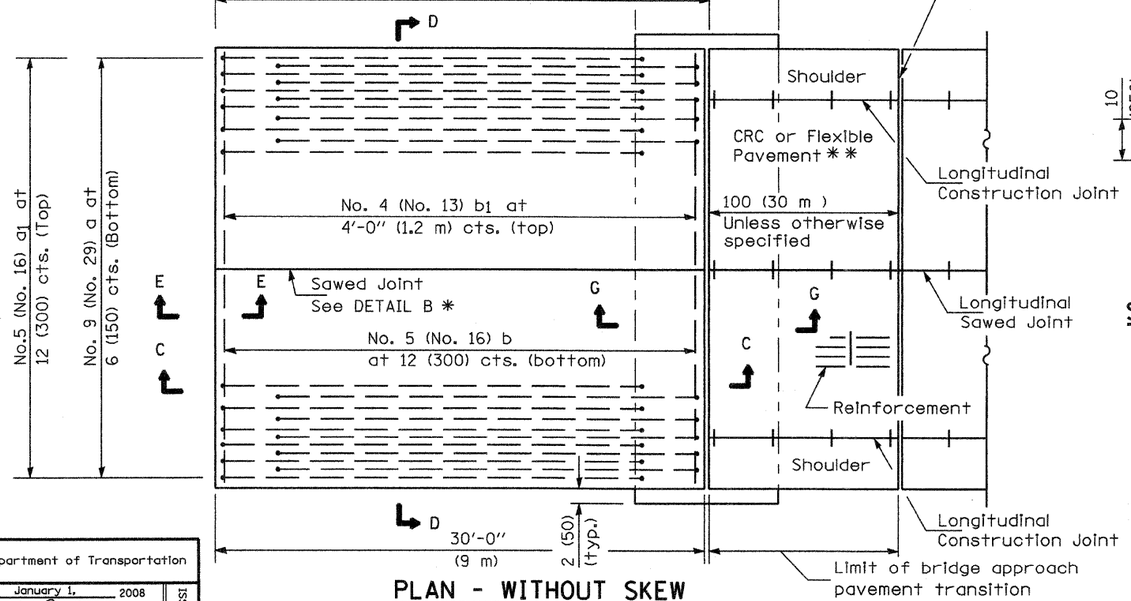
SOIL BORING LOGS
FAP RTE. 310 (IL RTE. 255) OVER
IL RTE 111
SECTION 60-15HB-2
MADISON COUNTY
STATION 39+914.647
SN 060-0330 (NB) & 060-0331 (SB)

Klingner & Assoc., P.C.

NEW CONSTRUCTION

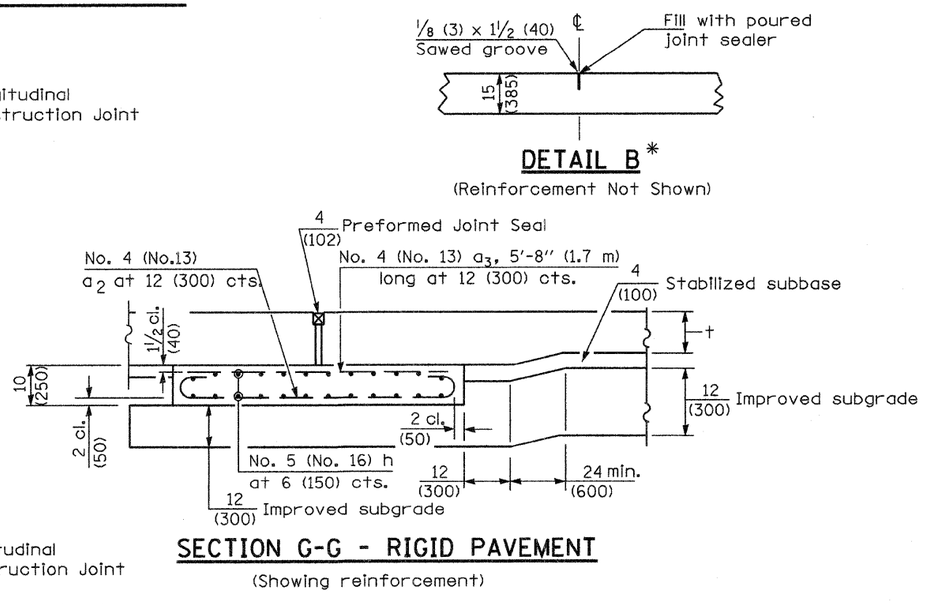


PLAN - WITH SKEW



PLAN - WITHOUT SKEW

* Saw ℄ or lane edge if poured two or more lane widths at a time.
** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.

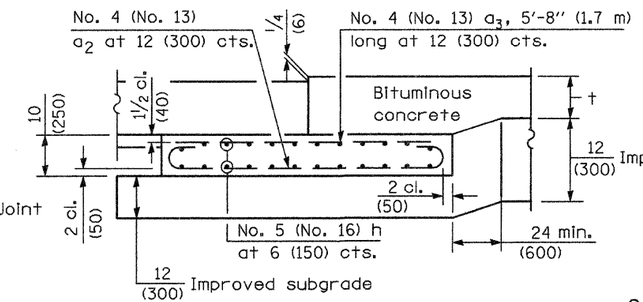


SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)

Rigid Pavement only:

Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

GENERAL NOTES

THICKNESS-"t"=Thickness of Pavement.

See Standard 421001 for reinforcement details not shown.

See Standard 420001 for joint details not shown.

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

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Lee E. Han
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

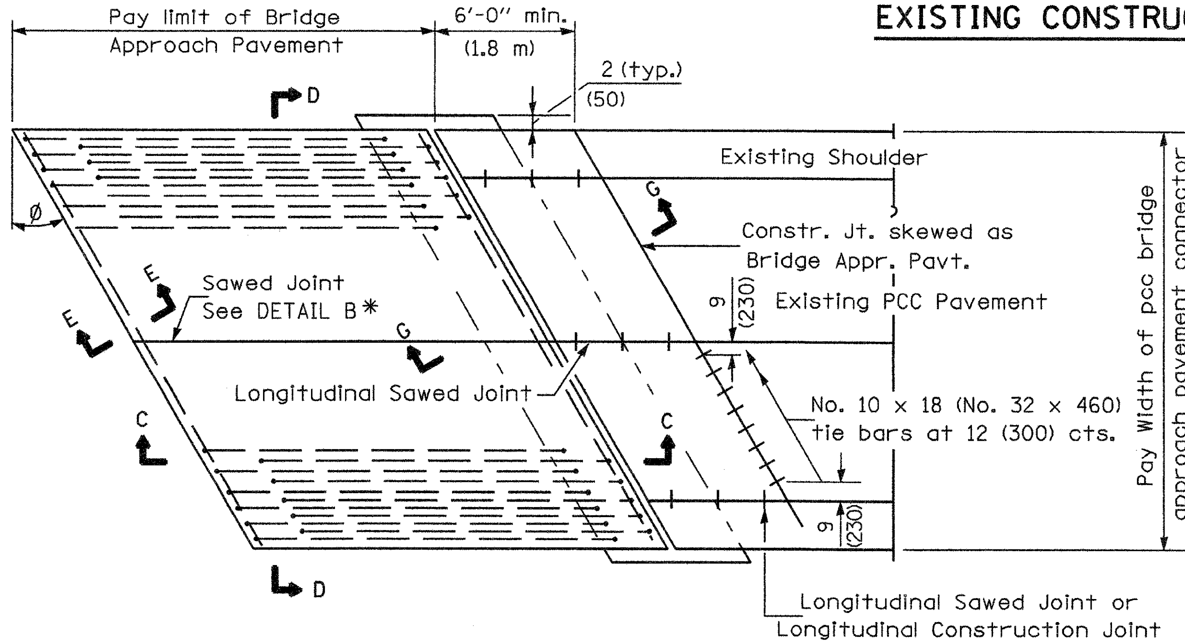
DATE	REVISIONS
1-1-08	Switched units to English
	(metric). Moved rebar epoxy
	coat note to Standard Spec.
1-1-04	Rev. size of Trans. Exp.
	Jt. and soft converted
	metric reinf.

BRIDGE APPROACH PAVEMENT

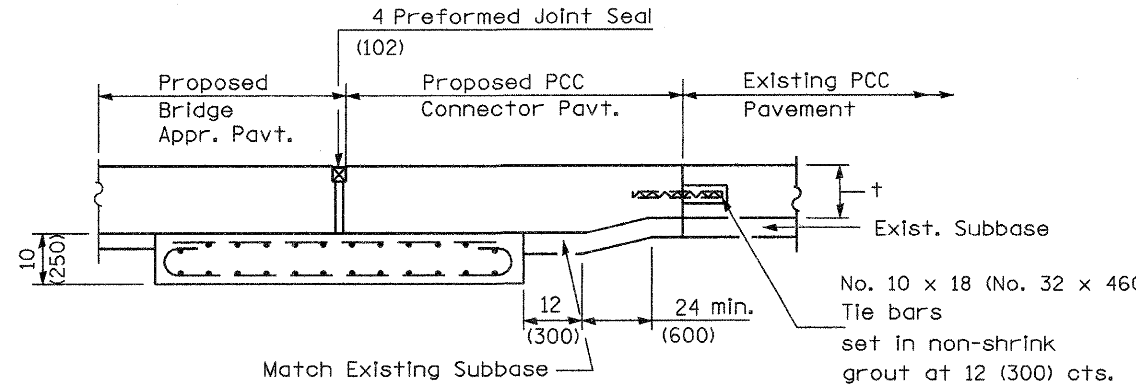
(Sheet 1 of 4)

CONTRACT 76624 Sheet 125A.

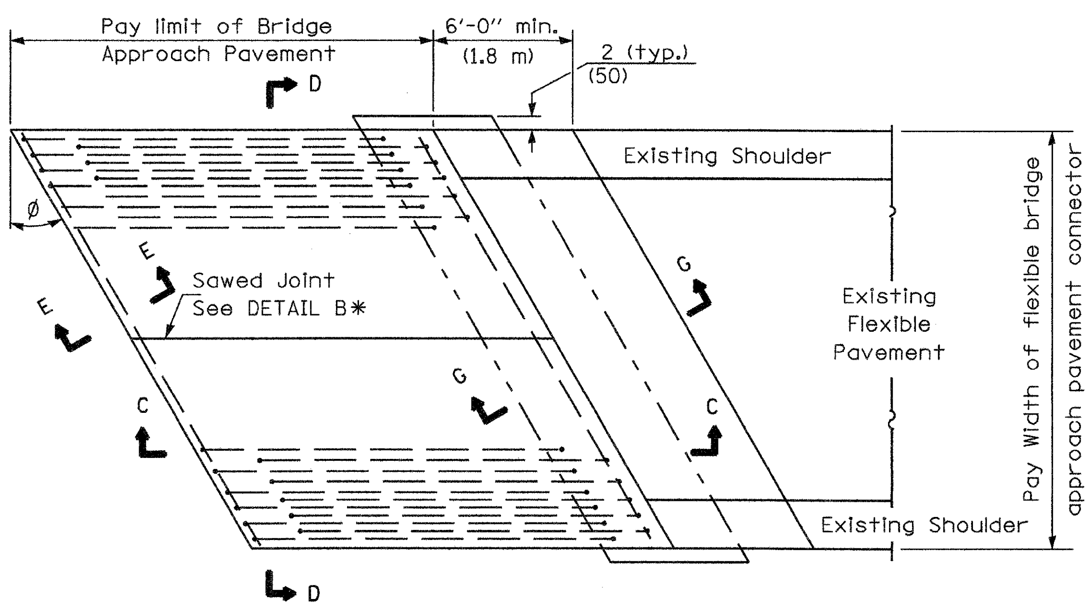
EXISTING CONSTRUCTION



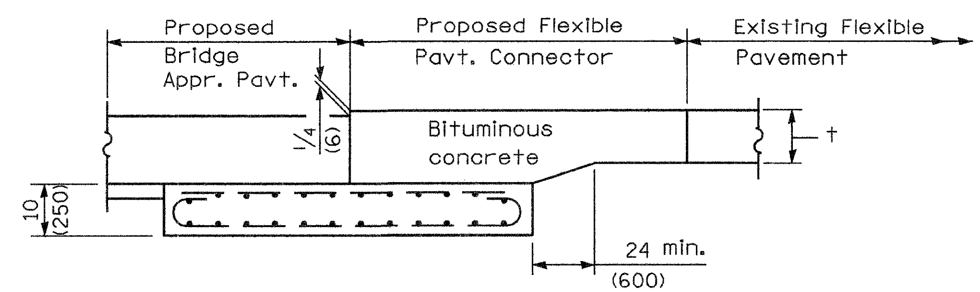
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

Illinois Department of Transportation

APPROVED January 1, 2008
ENGINEER OF BRIDGES AND STRUCTURES

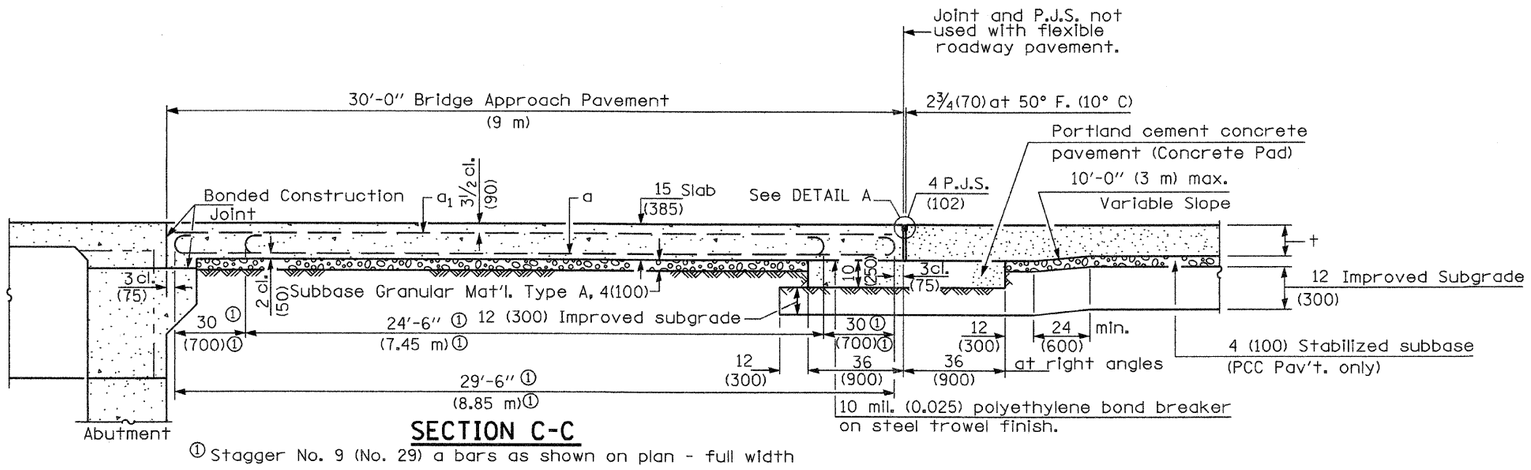
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

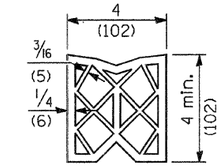
(Sheet 2 of 4)

CONTRACT 76624 Sheet 125 B.

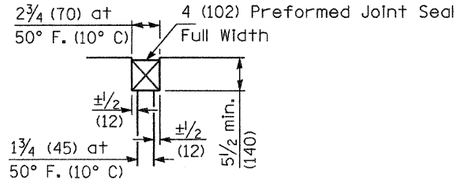


SECTION C-C

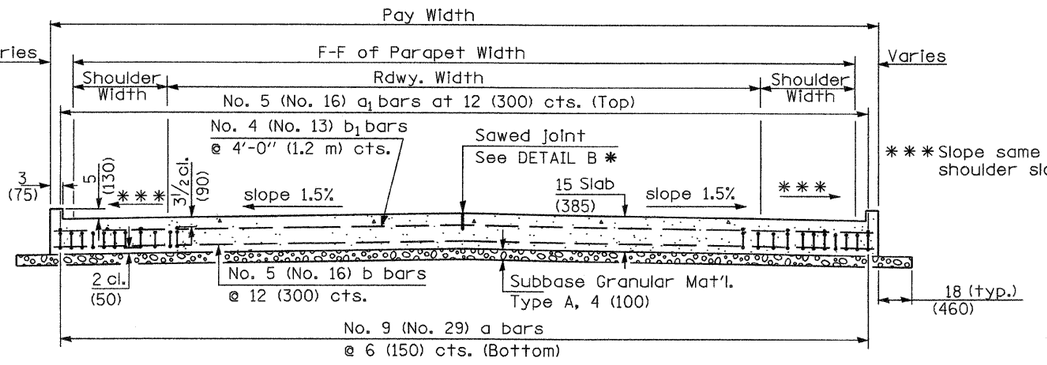
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



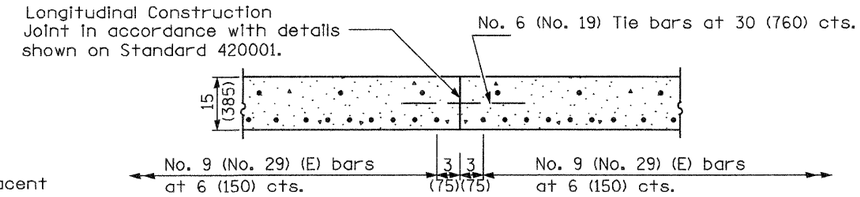
DETAIL A



*** Slope same as adjacent shoulder slope.

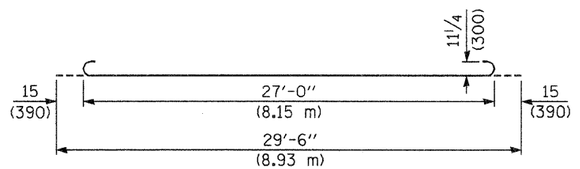
SECTION D-D

(See Plan for Dimensions not shown)

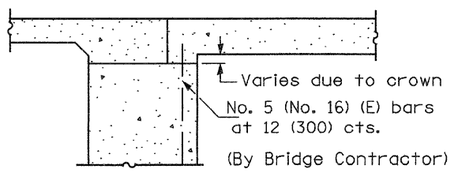


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.

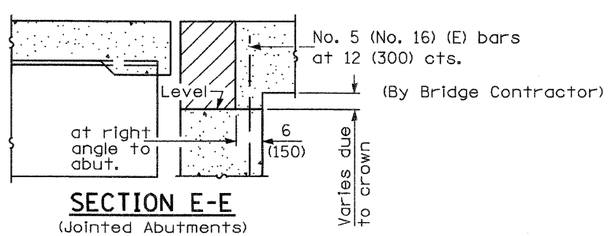


BAR a



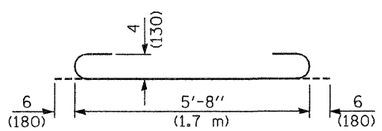
SECTION E-E

(Integral Abutments)



SECTION E-E

(Jointed Abutments)



BAR a2

DESIGN STRESSES

fy = 60,000 p.s.i. (400 MPa)
f'c = 3,500 p.s.i. (24 MPa)
n = 8.5

Illinois Department of Transportation

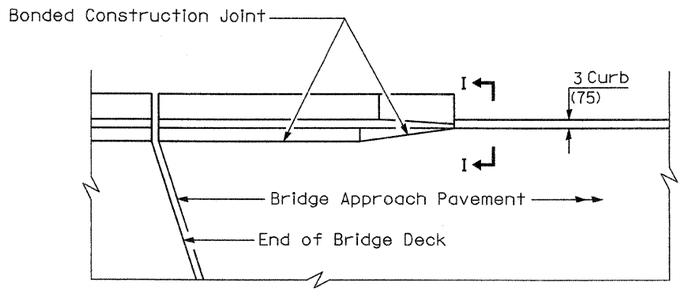
APPROVED January 1, 2008
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-07

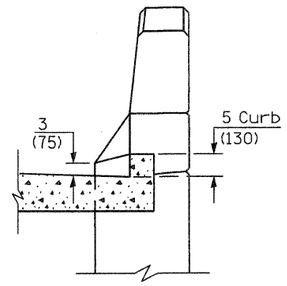
BRIDGE APPROACH PAVEMENT

(Sheet 3 of 4)

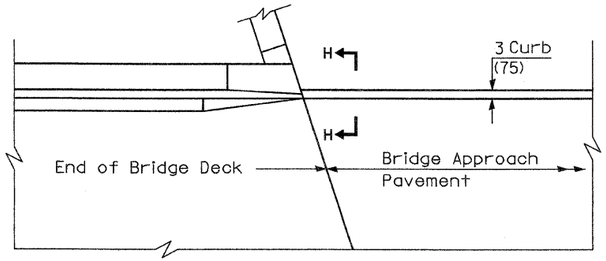
CONTRACT 76624 SHEET 125C.



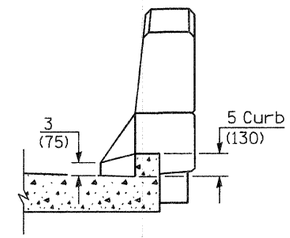
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



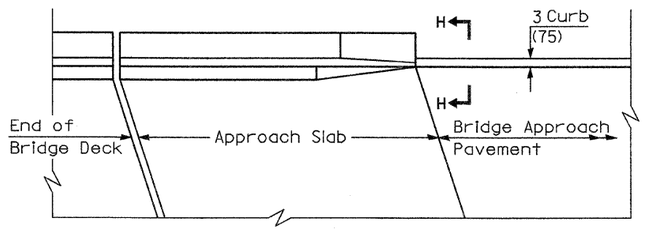
SECTION I - I



PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



SECTION H - H



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT

Illinois Department of Transportation

APPROVED January 1, 2008
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED January 1, 2008
Gary L. Hanson
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

BRIDGE APPROACH PAVEMENT

(Sheet 4 of 4)

CONTRACT 76624 Sheet 1250.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	126
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ON MAY 30, 2003 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THIS PLAN HAS ALSO BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR40 FOR DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS IF CHECKED BELOW.

NPDES PERMITS ASSOCIATED WITH THIS PROJECT:

☐ ILR10
☒ ILR40 PERMIT NO. 0493

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

MARY C. LAMIE
PRINT NAME

SIGNATURE

DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
TITLE

10/16/08
DATE

IL DEPT. OF TRANSPORTATION
AGENCY

I. SITE DESCRIPTION:

A. THE FOLLOWING IS A DESCRIPTION OF THE PROJECT LOCATION:

THE PROPOSED PROJECT CONSISTS OF CONSTRUCTING DUAL STRUCTURES TO CARRY FAP RTE 310 OVER IL 111 AND REHABILITATING 0.7 KM OF IL 111 AND 0.5 KM OF VARIOUS OTHER SIDE STREETS AND RAMPS.

B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

GENERAL WORK INCLUDES THE CONSTRUCTION OF GRADE SEPARATED STRUCTURES CONSISTING OF DUAL SPAN CONTINUOUSLY WELDED PLATE GIRDER REINFORCED CONCRETE DECK SLAB SUPERSTRUCTURES ON VAULTED ABUTMENTS 57.98 METERS BACK TO BACK OF APPROACH BENTS. CONSTRUCTION ALSO CONSISTS OF WIDENING EXISTING IL 111 PAVEMENT, CONSTRUCTING CHANNELIZING MEDIANS, CONSTRUCTING INTERCHANGE RAMPS TO THE BACK OF THE RADIUS RETURNS, CONSTRUCTING SERVICE DRIVES, AND CONSTRUCTING A RELOCATION OF ELIZABETH STREET. OTHER WORK ITEMS INCLUDE TRAFFIC SIGNALS, PIPE CULVERTS, ENTRANCE CONSTRUCTION, PAVEMENT MARKING, SEEDING, EROSION CONTROL, AND OTHER MISCELLANEOUS ITEMS.

C. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION AND GRADING:

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. TREE REMOVAL WILL BE COMPLETED.
2. EXCAVATION WILL BE COMPLETED ALONG THE MAJORITY OF THE PROJECT TO GRADE OUT FOR PROPOSED ROADWAY DITCHES AND WATERWAYS.
3. EMBANKMENT WILL BE COMPLETED TO FILL AREAS TO RAISE THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY FORESLOPE AND BACKSLOPE.
4. DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE CONSTRUCTION OF THE EXCAVATION AND EMBANKMENT TO MAINTAIN ACCEPTABLE DRAINAGE.
5. PLACEMENT, MAINTENANCE, REMOVAL, AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, TEMPORARY SEEDING, ETC.
6. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, RIPRAP STILLING BASINS, EXCELSIOR BLANKET, SEEDING, ETC.
7. FINAL GRADING, CLEAN UP, AND OTHER MISCELLANEOUS ITEMS.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 35 HECTARES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 8 HECTARES.

E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.55

F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

THREE SOIL TYPES ARE LOCATED WITHIN THE PROJECT AREA. THESE ARE:

WINFIELD SILT LOAM (477B) - A MODERATELY WELL DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL HAS SLOPES BETWEEN TWO AND FIVE PERCENT.

WINFIELD SILTY CLAY LOAM (477B3) - A MODERATELY WELL DRAINED SOIL WITH MODERATE PERMEABILITY AND IS SUSCEPTIBLE TO EROSION. THIS SOIL HAS SLOPES BETWEEN TWO AND FIVE PERCENT.

WINFIELD SILTY CLAY LOAM (477C3) - A MODERATELY WELL DRAINED SOIL WITH MODERATE PERMEABILITY AND IS SUSCEPTIBLE TO EROSION. THIS SOIL HAS SLOPES BETWEEN FIVE AND TEN PERCENT.

G. THE FOLLOWING IS A DESCRIPTION OF POTENTIALLY EROSIVE AREAS ASSOCIATED WITH THIS PROJECT:

THERE ARE NO POTENTIALLY CRITICAL EROSIVE AREAS WITHIN THE PROJECT AREA.

H. THE FOLLOWING IS A DESCRIPTION OF SOIL DISTURBING ACTIVITIES, THEIR LOCATIONS, AND THEIR EROSIVE FACTORS (E.G. STEEPNESS OF SLOPES, LENGTH OF SLOPES, ETC):

THE NATURE AND PURPOSE OF LAND DISTURBING ACTIVITIES ON THIS PROJECT IS TO CONSTRUCT DUAL STRUCTURES TO CARRY FAP RTE 310 OVER IL RTE 111 AND TO REHABILITATE PART OF IL RTE 111 AND OTHER SIDE STREETS AND RAMPS. PROPOSED RIGHT-OF-WAY WILL BE REQUIRED TO ACCOMMODATE CONSTRUCTION OF THE IMPROVEMENTS. THERE ARE NO SCHEDULED ACTIVITIES THAT WILL AFFECT THE SOIL EROSION AND SEDIMENT CONTROL PLANS AND NO OFF-SITE LAND DISTURBING ACTIVITIES.

TWO SOIL TYPES HAVE EROSIVE CHARACTERISTICS - WINFIELD SILTY CLAY LOAM (477B3 AND 477C3) IS HIGHLY SUSCEPTIBLE TO WATER EROSION. HOWEVER, SUSCEPTIBILITY TO WATER WILL BE LIMITED WITHIN THE PROJECT AREA DUE TO MODERATE SLOPES ONLY.

I. SEE THE EROSION CONTROL PLANS AND/OR DRAINAGE PLANS FOR THIS CONTRACT FOR INFORMATION REGARDING DRAINAGE PATTERNS, APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFF SITE SEDIMENT TRACKING (TO BE ADDED AFTER CONTRACTOR IDENTIFIES LOCATIONS), AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS) AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO SURFACE WATER INCLUDING WETLANDS.

J. THE FOLLOWING IS A LIST OF RECEIVING WATER(S) AND THE ULTIMATE RECEIVING WATER(S), AND AERIAL EXTENT OF WETLAND ACREAGE AT THE SITE. THE LOCATION OF THE RECEIVING WATERS CAN BE FOUND ON THE EROSION AND SEDIMENT CONTROL PLANS:

ROCKY FORK OF MISSISSIPPI RIVER

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT: (CHECK ALL THAT APPLY)

☒ SOIL SEDIMENT	☒ PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS)
☒ CONCRETE	☒ ANTIFREEZE / COOLANTS
☒ CONCRETE TRUCK WASTE	☒ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
☒ CONCRETE CURING COMPOUNDS	☐ OTHER (SPECIFY)_____
☒ SOLID WASTE DEBRIS	☐ OTHER (SPECIFY)_____
☐ PAINTS	☐ OTHER (SPECIFY)_____
☐ SOLVENTS	☐ OTHER (SPECIFY)_____
☐ FERTILIZERS / PESTICIDES	☐ OTHER (SPECIFY)_____

II. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN I.C. ABOVE AND FOR ALL USE AREAS, BORROW SITES, AND WASTE SITES. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN FOR THE IMPLEMENTATION OF THE MEASURES INDICATED. THE CONTRACTOR, AND SUBCONTRACTORS, WILL NOTIFY THE RESIDENT ENGINEER OF ANY PROPOSED CHANGES, MAINTENANCE, OR MODIFICATIONS TO KEEP CONSTRUCTION ACTIVITIES COMPLIANT WITH THE PERMIT. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH WILL BE PROVIDED AT THE PRE-CONSTRUCTION CONFERENCE, AND ARE A PART OF, THIS PLAN:

A. EROSION AND SEDIMENT CONTROL

1. STABILIZED PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SODDING, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED BELOW IN II.A.1.a.(1) AND II.A.1.a.(3), STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASES ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

a. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

THE FOLLOWING STABILIZATION PRACTICES WILL BE USED FOR THIS PROJECT: (CHECK ALL THAT APPLY)

☐ PRESERVATION OF MATURE VEGETATION	☒ EROSION CONTROL BLANKET / MULCHING
☐ VEGETATED BUFFER STRIPS	☐ SODDING
☒ PROTECTION OF TREES	☐ GEOTEXTILES
☒ TEMPORARY EROSION CONTROL SEEDING	☐ OTHER (SPECIFY)_____
☐ TEMPORARY TURF (SEEDING, CLASS 7)	☐ OTHER (SPECIFY)_____
☐ TEMPORARY MULCHING	☐ OTHER (SPECIFY)_____
☒ PERMANENT SEEDING	☐ OTHER (SPECIFY)_____

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. TEMPORARY EROSION CONTROL SEEDING - THIS ITEM WILL BE APPLIED TO ALL BARE AREAS EVERY SEVEN DAYS TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE AREAS.

EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.

WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.

BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

2. PERMANENT SEEDING - SEEDING, CLASS 1, CLASS 2, AND CLASS 2A WILL BE INSTALLED PER IDOT SPECIFICATIONS.

3. EROSION CONTROL BLANKETS/MULCHING - EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES AND IN HIGH VELOCITY AREAS (I.E. DITCHES) THAT HAVE BEEN BROUGHT TO FINAL GRADE AND SEEDED TO PROTECT SLOPES FROM EROSION AND ALLOW SEEDS TO GERMINATE. MULCH, METHOD 2 WILL BE APPLIED IN RELATIVELY FLAT AREAS TO PROTECT THE DISTURBED AREAS AND PREVENT FURTHER EROSION.

MULCH AS APPLIED TO TEMPORARY EROSION CONTROL SEEDING SHALL BE BY THE METHOD SPECIFIED IN THE CONTRACT AND AT THE DIRECTION OF THE ENGINEER. MULCH WILL BE PAID SEPARATELY AND SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS.

4. PERMANENT STABILIZATION - ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW SEED TO GERMINATE PROPERLY. MULCH, METHOD 2 WILL BE USED ON RELATIVELY FLAT AREAS.

2. STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: PERIMETER EROSION BARRIER, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, DITCH CHECKS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE FOLLOWING STRUCTURAL PRACTICES WILL BE USED FOR THIS PROJECT:(CHECK ALL THAT APPLY)

☒ PERIMETER EROSION BARRIER	☐ ROCK OUTLET PROTECTION
☒ TEMPORARY DITCH CHECK	☒ RIPRAP
☒ STORM DRAIN INLET PROTECTION	☐ GABIONS
☐ SEDIMENT TRAP	☐ SLOPE MATTRESS
☐ TEMPORARY PIPE SLOPE DRAIN	☐ RETAINING WALLS
☐ TEMPORARY SEDIMENT BASIN	☐ SLOPE WALLS
☐ TEMPORARY STREAM CROSSING	☐ CONCRETE REVETMENT MATS
☐ STABILIZED CONSTRUCTION EXITS	☐ LEVEL SPREADERS
☐ TURF REINFORCEMENT MATS	☐ OTHER (SPECIFY)_____
☐ PERMANENT CHECK DAMS	☐ OTHER (SPECIFY)_____
☐ PERMANENT SEDIMENT BASIN	☐ OTHER (SPECIFY)_____
☐ AGGREGATE DITCH	☐ OTHER (SPECIFY)_____
☐ PAVED DITCH	☐ OTHER (SPECIFY)_____

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE.

CONSTRUCT AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.

2. STORM DRAIN INLET PROTECTION - INLET AND PIPE PROTECTION WILL BE PROVIDED FOR STORM SEWERS AND CULVERTS. SEDIMENT FILTERS WILL BE PLACED IN ALL INLETS, CATCH BASINS AND MANHOLES DURING CONSTRUCTION AND WILL BE CLEANED ON A REGULAR BASIS.

3. TEMPORARY DITCH CHECKS - DITCH CHECKS WILL BE PLACED IN SWALES WHERE RUNOFF VELOCITY IS HIGH. ALL STRUCTURAL PRACTICES ARE SHOWN IN DETAIL ON THE EROSION CONTROL PLANS.

TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 2 FT. FALL/RISE IN DITCH GRADE.

TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3- REMOVE AT END OF CONSTRUCTION.

STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCE WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE (IF SPECIFIED), ENVIROBERM, TRIANGULAR SILT DIKES, GEORIDGE AND ROLLED EXCELSIOR.

4. RIPRAP - STONE RIPRAP WITH FILTER FABRIC WILL BE USED AS PROTECTION AT THE DISCHARGE END OF ALL CULVERT END SECTIONS AND AS INLET/OUTLET PROTECTION TO PREVENT SCOURING AT THE END OF PIPES AND PREVENT DOWNSTREAM EROSION.

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION
LEGEND, DETLS & GEN NOTES
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE
CHECKED BY

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	127
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

3. STORM WATER MANAGEMENT: PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

   a. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: STORM WATER DETENTION STRUCTURES (INCLUDING WET PONDS), STORM WATER RETENTION STRUCTURES, FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS, INFILTRATION OF RUNOFF ON SITE, AND SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES). THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE IN SECTION 59-8 (EROSION AND SEDIMENT CONTROL) IN CHAPTER 59 (LANDSCAPE DESIGN AND EROSION CONTROL) OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN AND ENVIRONMENT MANUAL. IF PRACTICES OTHER THAN THOSE DISCUSSED IN SECTION 59-8 ARE SELECTED FOR IMPLEMENTATION OR IF PRACTICES ARE APPLIED TO SITUATIONS DIFFERENT FROM THOSE COVERED IN SECTION 59-8, THE TECHNICAL BASIS FOR SUCH DECISIONS WILL BE EXPLAINED BELOW.

   b. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGIC CONDITIONS SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

   DESCRIPTION OF STORM WATER MANAGEMENT CONTROLS:

   SEE THE STORM WATER POLLUTION PREVENTION PLANS.

4. OTHER CONTROLS:

   a. VEHICLE ENTRANCES AND EXITS - STABILIZED CONSTRUCTION ENTRANCES AND EXITS MUST BE CONSTRUCTED TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.

      THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN IDENTIFYING THE LOCATION OF STABILIZED ENTRANCES AND EXITS AND THE PROCEDURES (S)HE WILL USE TO CONSTRUCT AND MAINTAIN THEM.

   b. MATERIAL DELIVERY, STORAGE, AND USE - THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO HELP PREVENT DISCHARGES OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE:

      - ALL PRODUCTS DELIVERED TO THE PROJECT SITE MUST BE PROPERLY LABELED.
      - WATER TIGHT SHIPPING CONTAINERS AND/OR SEMI TRAILERS SHALL BE USED TO STORE HAND TOOLS, SMALL PARTS, AND MOST CONSTRUCTION MATERIALS THAT CAN BE CARRIED BY HAND, SUCH AS PAINT CANS, SOLVENTS, AND GREASE.
      - A STORAGE/CONTAINMENT FACILITY SHOULD BE CHOSEN FOR LARGER ITEMS SUCH AS DRUMS AND ITEMS SHIPPED OR STORED ON PALLETS. SUCH MATERIAL IS TO BE COVERED BY A TIN ROOF OR LARGE SHEETS OF PLASTIC TO PREVENT PRECIPITATION FROM COMING IN CONTACT WITH THE PRODUCTS BEING STORED.
      - LARGE ITEMS SUCH AS LIGHT STANDS, FRAMING MATERIALS AND LUMBER SHALL BE STORED IN THE OPEN IN A GENERAL STORAGE AREA. SUCH MATERIAL SHALL BE ELEVATED WITH WOOD BLOCKS TO MINIMIZE CONTACT WITH STORM WATER RUNOFF.
      - SPILL CLEAN-UP MATERIALS, MATERIAL SAFETY DATA SHEETS, AN INVENTORY OF MATERIALS, AND EMERGENCY CONTACT NUMBERS SHALL BE MAINTAINED AND STORED IN ONE DESIGNATED AREA AND EACH CONTRACTOR IS TO INFORM HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER OF THIS LOCATION.

   c. STOCKPILE MANAGEMENT - BMPS SHALL BE IMPLEMENTED TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING MATERIALS SUCH AS BUT NOT LIMITED TO PORTLAND CEMENT CONCRETE RUBBLE, ASPHALT CONCRETE, ASPHALT CONCRETE RUBBLE, AGGREGATE BASE, AGGREGATE SUB BASE, AND PRE-MIXED AGGREGATE. THE FOLLOWING BMPS MAY BE CONSIDERED:

      - PERIMETER EROSION BARRIER
      - TEMPORARY SEEDING
      - TEMPORARY MULCH
      - PLASTIC COVERS
      - SOIL BINDERS
      - STORM DRAIN INLET PROTECTION

      THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN OF THE PROCEDURES (S)HE WILL USE ON THE PROJECT AND HOW THEY WILL BE MAINTAINED.

   d. WASTE DISPOSAL. NO MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

   e. THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

   f. THE CONTRACTOR SHALL PROVIDE A WRITTEN AND GRAPHIC PLAN TO THE RESIDENT ENGINEER IDENTIFYING WHERE EACH OF THE ABOVE AREAS WILL BE LOCATED AND HOW THEY ARE TO BE MANAGED.

5. APPROVED STATE OR LOCAL LAWS

   THE MANAGEMENT PRACTICES, CONTROLS AND PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH IDOT SPECIFICATIONS, WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 1995. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE IN THE SPACE PROVIDED BELOW. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILRIO INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

   DESCRIPTION OF PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS:

   ALL MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS PROVIDED IN THIS PLAN ARE IN ACCORDANCE WITH "IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINOIS URBAN MANUAL".

III. MAINTENANCE:

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, THE VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.

1. SEEDING - ALL ERODIBLE BARE EARTH WILL BE TEMPORARILY SEEDED ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE WITHIN THE CONTRACT LIMITS.

2. PERIMETER EROSION BARRIER - SEDIMENT WILL BE REMOVED IF THE INTEGRITY OF THE FENCING IS IN JEOPARDY AND ANY FENCING KNOCKED DOWN WILL BE REPAIRED IMMEDIATELY.

3. EROSION CONTROL BLANKET/MULCHING - ANY AREAS THAT FAIL WILL BE REPAIRED IMMEDIATELY.

4. PROTECTION OF TREES/TEMPORARY TREE PROTECTION - ANY PROTECTIVE MEASURES WHICH ARE KNOCKED DOWN WILL BE REPAIRED IMMEDIATELY.

5. DITCH CHECKS - SEDIMENT WILL BE REMOVED IF THE INTEGRITY OF THE DITCH CHECK IS IN JEOPARDY. ANY DITCH CHECKS WHICH FAIL WILL BE REPAIRED OR REPLACED IMMEDIATELY.

THE RESIDENT ENGINEER WILL PROVIDE MAINTENANCE GUIDES TO THE CONTRACTOR FOR THESE PRACTICES. ALL MAINTENANCE OF EROSION CONTROL SYSTEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY IDOT AFTER FINAL INSPECTION. ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE CONSTRUCTION SITE AND ALL OTHER AREAS SUBJECT TO EROSION SHOULD ALSO BE INSPECTED PERIODICALLY.

INSPECTION OF THESE AREAS SHALL BE MADE AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF EACH 0.5 INCHES OR GREATER RAINFALL, OR AN EQUIVALENT SNOWFALL. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM.

IV. INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT YET BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES AND EQUIPMENT ENTER AND EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.

A. DISTURBED AREAS, USE AREAS (STORAGE OF MATERIALS, STOCKPILES, MACHINE MAINTENANCE FUELING, ETC.), BORROW SITES, AND WASTE SITES SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS THAT ARE ACCESSIBLE, SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION I ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION II ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 1/2 HOUR TO 1 WEEK BASED ON THE URGENCY OF THE SITUATION. THE RESIDENT ENGINEER WILL NOTIFY THE CONTRACTOR OF THE TIME REQUIRED TO IMPLEMENT SUCH ACTIONS THROUGH THE WEEKLY INSPECTION REPORT.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION IV(B) SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT.

D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT. THE INCIDENCE OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
ATTN: COMPLIANCE ASSURANCE SECTION
1021 NORTH GRAND EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

V. NON-STORM WATER DISCHARGES:

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT IS COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN MUST BE DESCRIBED BELOW. APPROPRIATE POLLUTION PREVENTION MEASURES, AS DESCRIBED BELOW, WILL BE IMPLEMENTED FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

A. SPILL PREVENTION AND CONTROL - BMPS SHALL BE IMPLEMENTED TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM. THE CONTRACTOR SHALL PRODUCE A WRITTEN PLAN STATING HOW HIS/HER COMPANY WILL PREVENT, REPORT, AND CLEAN UP SPILLS AND PROVIDE A COPY TO ALL OF HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOTIFY ALL OF HIS/HER EMPLOYEES ON THE PROPER PROTOCOL FOR REPORTING SPILLS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY SPILLS IMMEDIATELY.

B. CONCRETE RESIDUALS AND WASHOUT WASTES - THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO CONTROL RESIDUAL CONCRETE, CONCRETE SEDIMENTS, AND RINSE WATER:

   1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED FOR RINSING OUT CONCRETE TRUCKS. SIGNS SHALL BE INSTALLED DIRECTING CONCRETE TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED.
   2. THE CONTRACTOR SHALL HAVE THE LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITIES APPROVED BY THE RESIDENT ENGINEER.
   3. ALL TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR AFTER EACH USE AND ALL SPILLS MUST BE REPORTED TO THE RESIDENT ENGINEER AND CLEANED UP IMMEDIATELY.
   4. CONCRETE WASTE SOLIDS/LIQUIDS SHALL BE DISPOSED OF PROPERLY.

C. LITTER MANAGEMENT - A PROPER NUMBER OF DUMPSTERS SHALL BE PROVIDED ON SITE TO HANDLE DEBRIS AND LITTER ASSOCIATED WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING HIS/HER EMPLOYEES PLACE ALL LITTER INCLUDING MARKING PAINT CANS, SODA CANS, FOOD WRAPPERS, WOOD LATHE, MARKING RIBBON, CONSTRUCTION STRING, AND ALL OTHER CONSTRUCTION RELATED LITTER IN THE PROPER DUMPSTERS.

D. VEHICLE AND EQUIPMENT CLEANING - VEHICLES AND EQUIPMENT ARE TO BE CLEANED IN DESIGNATED AREAS ONLY, PREFERABLY OFF SITE.

E. VEHICLE AND EQUIPMENT FUELING - A VARIETY OF BMPS CAN BE IMPLEMENTED DURING FUELING OF VEHICLES AND EQUIPMENT TO PREVENT POLLUTION. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER AS TO WHICH BMPS WILL BE USED ON THE PROJECT. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER HOW (S)HE WILL BE INFORMING HIS/HER EMPLOYEES OF THESE BMPS (I.E. SIGNS, TRAINING, ETC.). BELOW ARE A FEW EXAMPLES OF THESE BMPS:

   1. CONTAINMENT
   2. SPILL PREVENTION AND CONTROL
   3. USE OF DRIP PANS AND ABSORBENTS
   4. AUTOMATIC SHUT-OFF NOZZLES
   5. TOPPING OFF RESTRICTIONS
   6. LEAK INSPECTION AND REPAIR

F. VEHICLE AND EQUIPMENT MAINTENANCE - ON SITE MAINTENANCE MUST BE PERFORMED IN ACCORDANCE WITH ALL ENVIRONMENTAL LAWS SUCH AS PROPER STORAGE AND NO DUMPING OF OLD ENGINE OIL OR OTHER FLUIDS ON SITE.

VI. FAILURE TO COMPLY:

FAILURE TO COMPLY WITH ANY PROVISIONS OF THIS STORM WATER POLLUTION PREVENTION PLAN WILL RESULT IN THE IMPLEMENTATION OF AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION AGAINST THE CONTRACTOR AND/OR PENALTIES UNDER THE NPDES PERMIT WHICH COULD BE PASSED ONTO THE CONTRACTOR.

LEGEND

- TEMPORARY DITCH CHECK - ROLLED EXCELSIOR, SILT WEDGES/PANELS
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER - SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- INLET AND PIPE PROTECTION - STRAW BALES, FILTER FABRIC, AGGREGATE
- AGGREGATE EROSION CONTROL (AGGREGATE DITCH CHECK)
- EARTH EXCAVATION FOR EROSION CONTROL - SEDIMENT BASIN (STD 280001)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION GENERAL NOTES
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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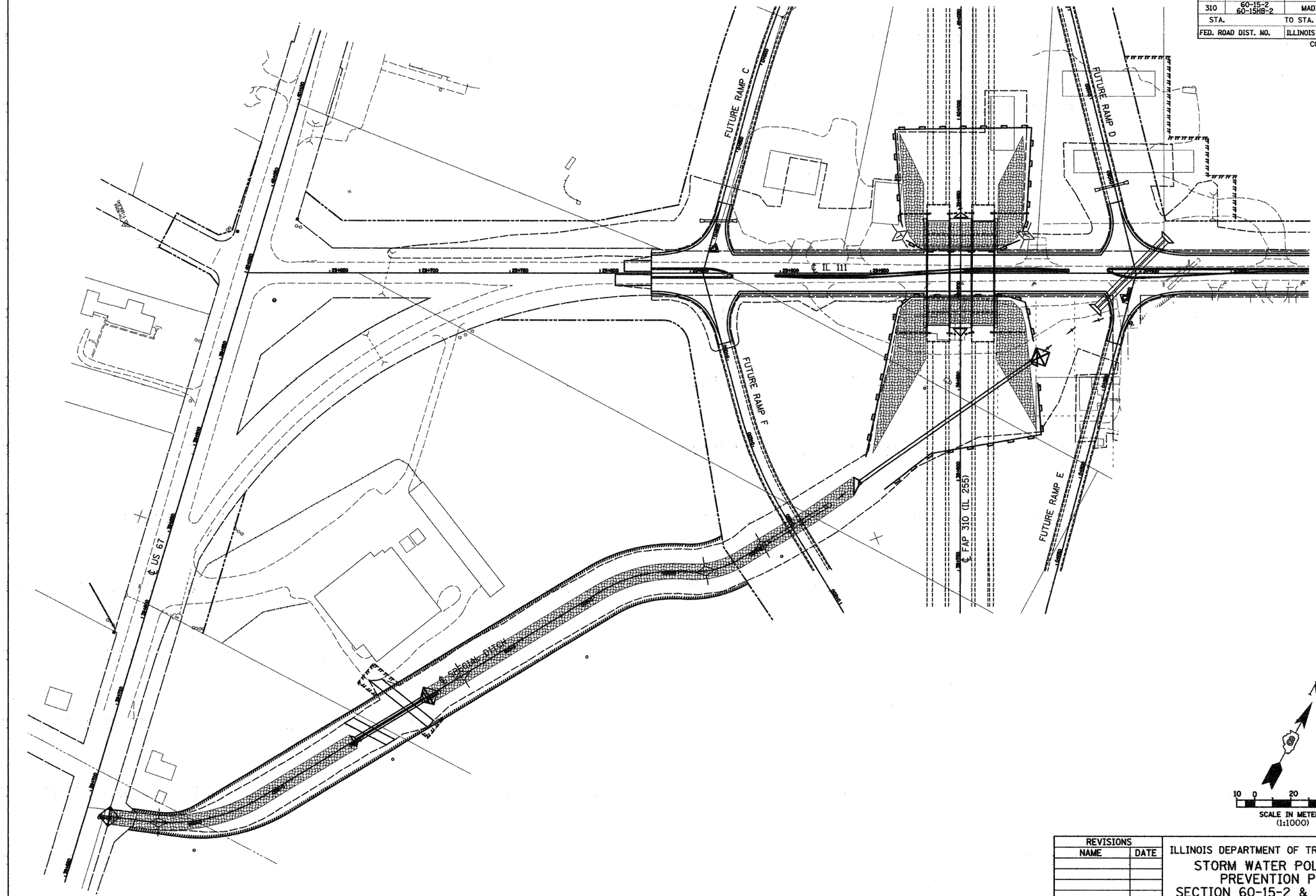
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	128
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN SECTION 60-15-2 & 60-15HB-2 MADISON COUNTY

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5/13/2008

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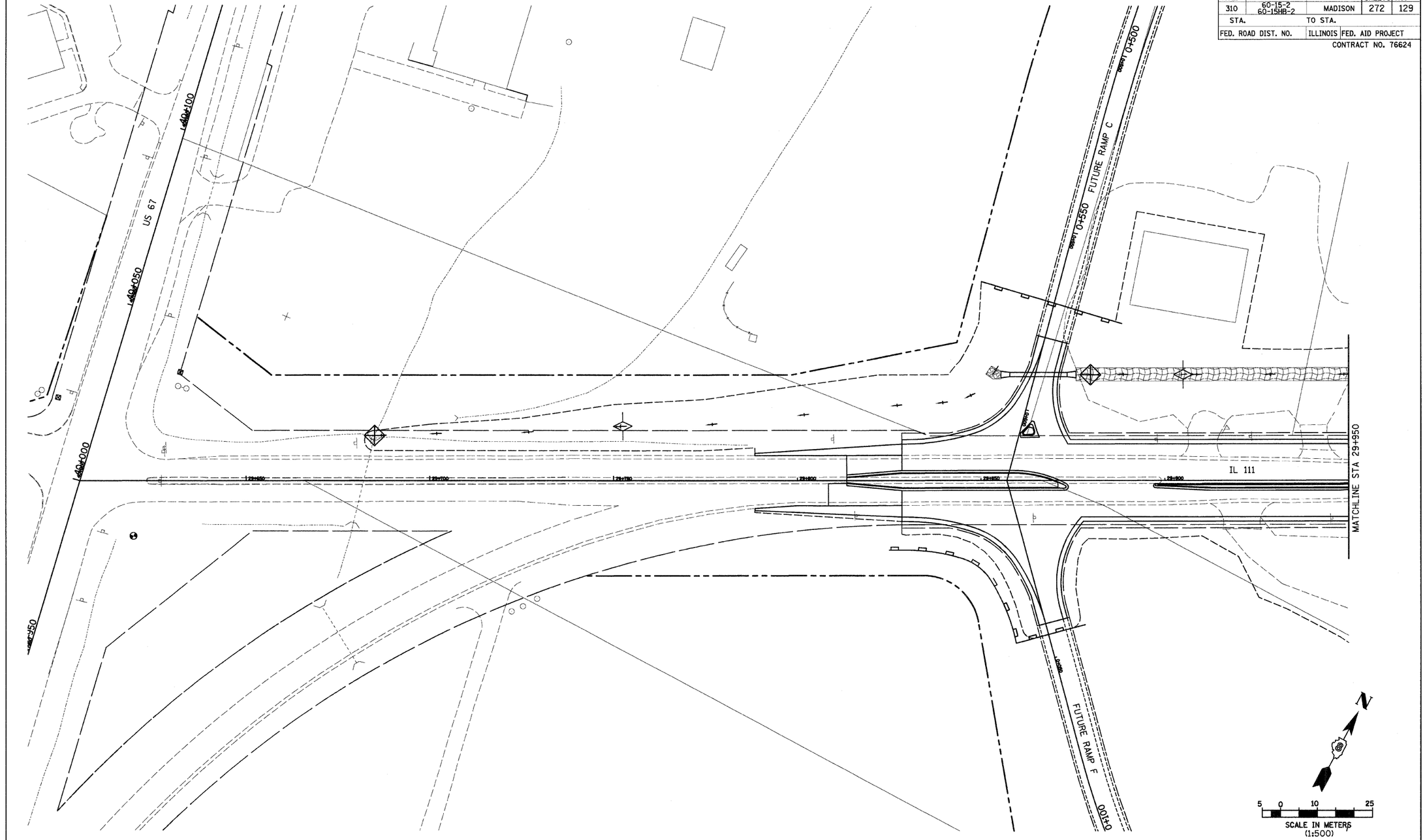
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	129
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY BGJ

DATE CHECKED BY

12/17/2007

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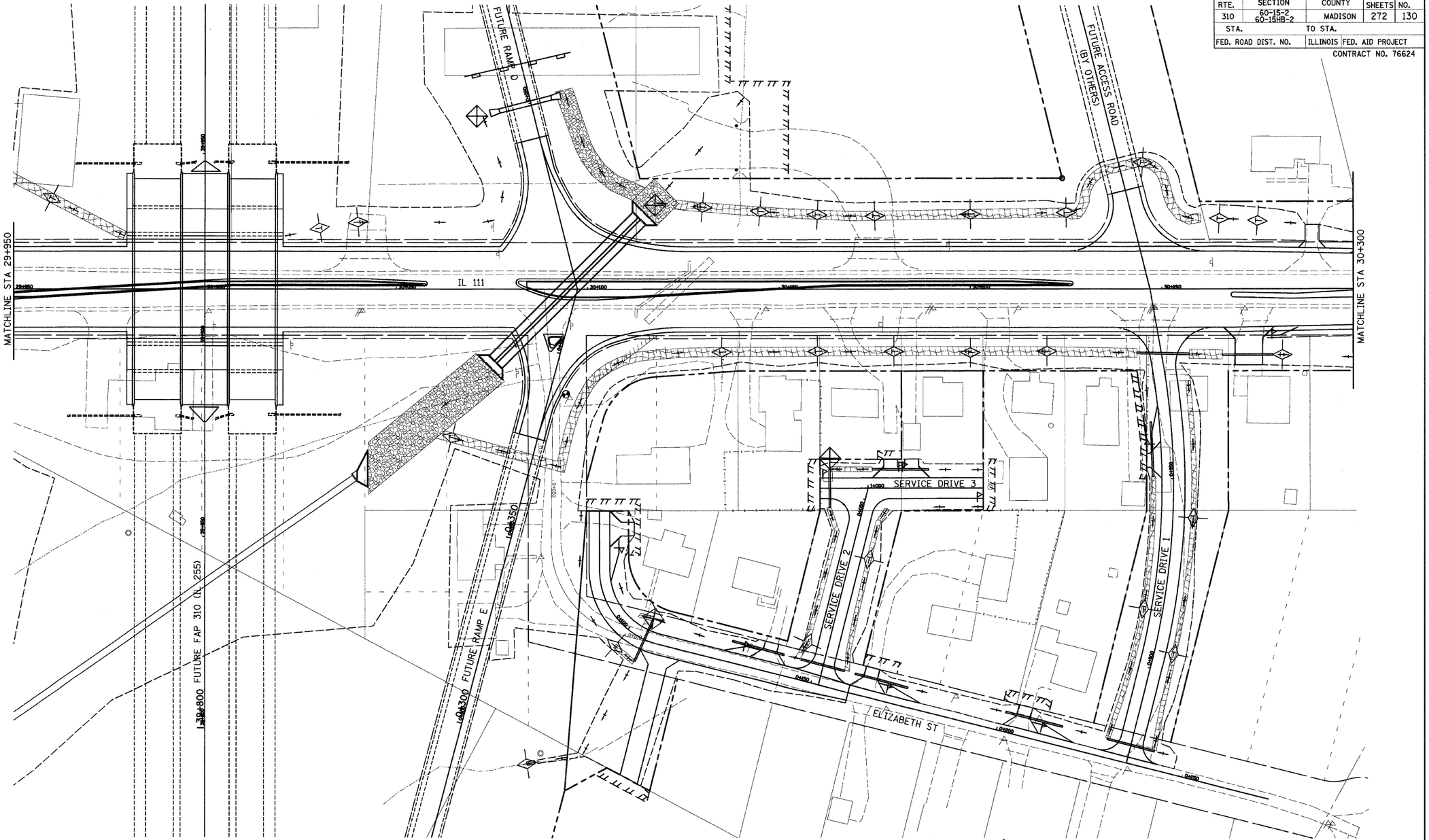
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN SECTION 60-15-2 & 60-15HB-2 MADISON COUNTY

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DATE

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12/7/2007

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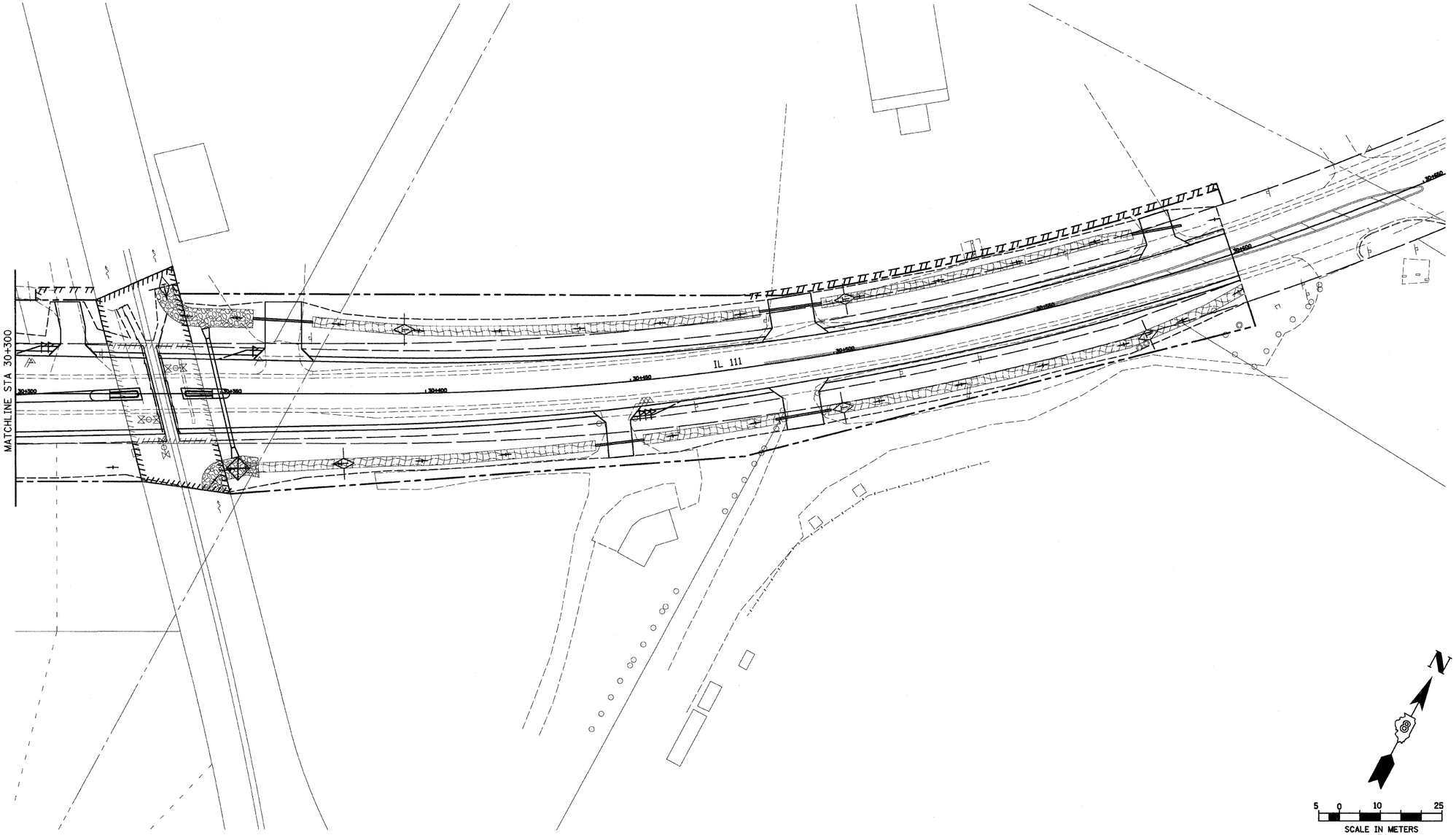
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	131
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN SECTION 60-15-2 & 60-15HB-2 MADISON COUNTY

DRAWN BY BGJ

DATE CHECKED BY

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	132
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

SW 1/4, SEC 14. T 6 N, R 10 W, 3RD PM

CURVE RAMP F-1
PI STA = 0+110.452
Δ = 16° 15′ 07″ (LT)
R = 225.000 m
T = 32.126 m
L = 63.821 m
E = 2.282 m
PC STA = 0+078.325
PT STA = 0+142.147
SE = 5.6%
SE ATTAINED STA 0+053.000 TO STA 0+091.000
SE REMOVED STA 0+126.000 TO STA 0+174.000

FOR ENTRANCE RAMP F TERMINAL DETAILS AND PROFILE SEE SHEETS XX-XX

PROPOSED ENERGY DISSIPATION BASIN
SEE DETAIL ON SHEET XX

STONE DUMPED RIPRAP, CLASS A4

STONE DUMPED RIPRAP, CLASS B3

STONE DUMPED RIPRAP, CLASS A4

PROPOSED RIPRAP DITCH
SEE DETAIL ON SHEET XX

ERNEST A. HOOD
PARCEL NO. 8239079

TEMPORARY EASEMENT

TEMPORARY EASEMENT

STA 0+150 (RAMP F)
PROPOSED PIPE CULVERT, RCCP, TYPE 4, 1.800 m Ø X 41.2 m
USFL 182.115, 22.3 m LT
DSFL 181.495, 18.9 m RT
PRECAST REINFORCED CONCRETE FLARED END SECTION STD 542301, 2-EACH
DRAINAGE AREA = 42.26 ha
50 YR FLOW = 8.18 cms
100 YR FLOW = 9.88 cms

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

PR ROW

PL

CONSTRUCTION LIMITS

℄ RAMP F

0+100

0+150

0+200

PC STA 0+078.325

PT STA 0+142.147

PC STA 0+214.147

BORING NO. RE-HA 1
STA. 0+050, 0.00m BL

BORING NO. RE-HA 2
STA. 0+150, 5.00m LT

SECTION 60-15
BEGINS
STA 0+040.493

ERNEST A. HOOD &
DELORES J. HODD
PARCEL NO. 8239080

STA 39+881.5
PROPOSED TYPE D INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 18.7 m
USFL 193.890
DSFL 186.300, 35.3 m LT
METAL END SECTION STD 542401, 1-EACH
CONCRETE THRUST BLOCK, 1-EACH

STA 39+880.0
PROPOSED TYPE C INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 3.1 m
USFL 193.915
DSFL 193.860, 3.4 m LT
METAL END SECTION STD 542401, 1-EACH

FOR GUARDRAIL STATIONS AND TYPES SEE SHEETS XX-XX

℄ SURVEY AND CONSTRUCTION
FAP 310

MATCH LINE STA 39+700

39+700

39+750

39+800

39+850

39+900

39+950

40+000

N 27° 57′ 21″ W

PROPOSED BRIDGE APPROACH
PAVEMENT STD 420401

BORING NO. HA 44
STA. 39+750, 12.00m LT

BORING NO. HA 46
STA. 39+800, 12.00m LT

BORING NO. SB 43
STA. 39+840, 10.50m LT

BORING NO. HA 45
STA. 39+775, 12.00m RT

BORING NO. SB 42
STA. 39+825, 12.00m RT

BORING NO. HA 43
STA. 39+725, 12.00m RT

PROPOSED 1.800 m Ø PIPE CULVERT
BY OTHERS

STA 39+879.0
PROPOSED TYPE C INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 3.3 m
USFL 193.905
DSFL 193.845, 3.3 m RT
METAL END SECTION STD 542401, 1-EACH

STA 39+914.647, ℄ FAP 310 =
STA 30+000.000, ℄ IL 111

STA. 39+893, 17.000 m LT
BORING NO. US-SB1

STA. 39+889, 15.000 m RT
BORING NO. US-SB2

SIMPSON & MARY JANE
REATHAFORD
PARCEL NO. 8701001

SECTION 60-15-2
IL 111
BY OTHERS

℄ IL 111

29+850

29+900

29+950

30+000

SECTION 60-15HB-2
SN 060-0330 NB
SN 060-0331 SB
BY OTHERS

FAITH LUTHERAN
CHURCH OF GODFREY
PARCEL NO. 8701015

CURVE RAMP C-3
PI STA = 0+485.079
Δ = 8° 36′ 51″ (LT)
R = 505.000 m
T = 38.034 m
L = 75.925 m
E = 1.430 m
PC STA = 0+447.045
PT STA = 0+522.970
SE = 3.9%
SE ATTAINED STA 0+421.000 TO STA 0+459+.000
SE REMOVED STA 0+511.000 TO STA 0+549.000

FOR EXIT RAMP C TERMINAL DETAILS AND PROFILE SEE SHEETS XX-XX

PT STA 0+522.970

℄ RAMP C

0+500

0+550

BORING NO. RH-HA 5
STA. 0+500, 3.00m LT

SECTION 60-15
ENDS
STA 0+579.503

PROPOSED ERS 900 mm Ø PIPE CULVERT
BY OTHERS

BORING NO. RH-HA 7
STA. 0+600, 0.00m BL

HARRY ORRILL
PARCEL NO. 8701075

STA. 29+950, 8.5m LT
BORING NO. UUM-HA 1

STA 39+948.2
PROPOSED TYPE D INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 16.5 m
USFL 193.850
DSFL 187.300, 33.2 m LT
METAL END SECTION STD 542401, 1-EACH
CONCRETE THRUST BLOCK, 1-EACH

STA 39+948.2
PROPOSED TYPE C INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 3.4 m
USFL 193.885
DSFL 193.855, 3.1 m LT
METAL END SECTION STD 542401, 1-EACH

GODFREY BUS LINES, INC.
PARCEL NO. 8701084

STA 39+948.0
PROPOSED TYPE C INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 3.3 m
USFL 193.890
DSFL 193.860, 3.2 m RT
METAL END SECTION STD 542401, 1-EACH

BORING NO. HA 49
STA. 40+010, 12.00m LT

BORING NO. HA 48
STA. 39+975, 12.00m RT

STA. 39+941, 14.40 m RT
BORING NO. US-SB4

MATCH LINE STA 40+050

7.2 m

8.2 m

8.2 m

7.2 m

PEOPLE OF THE STATE OF ILLINOIS

COMMERCIAL

COMMERCIAL

TAVERN

TEL BOOTH

AGG

BIT

CON

GWS

SCALE IN METERS
(1:500)
5 0 10 25

SW 1/4, SEC 14. T 6 N, R 10 W, 3RD PM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL STRATA PLAN
FAP 310 (IL 255)
SECTIONS 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY
DATE CHECKED BY

IL 255 (FAP 310), STA 39+700 TO STA 40+050

12/7/2007

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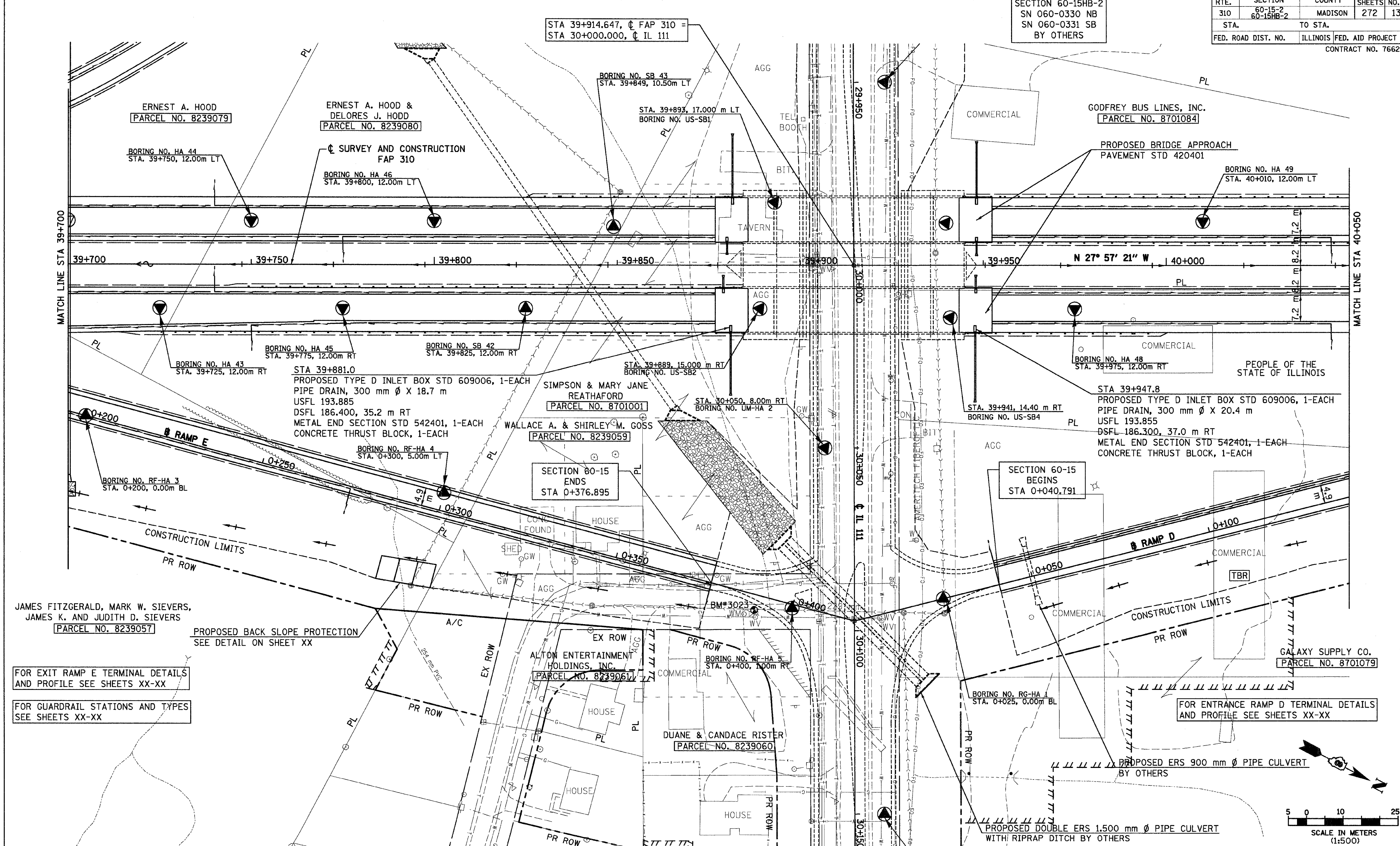
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	133
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM



SECTION 60-15HB-2
SN 060-0330 NB
SN 060-0331 SB
BY OTHERS
STA 39+914.647, ℄ FAP 310 =
STA 30+000.000, ℄ IL 111
ERNEST A. HOOD
PARCEL NO. 8239079
ERNEST A. HOOD &
DELORES J. HODD
PARCEL NO. 8239080
℄ SURVEY AND CONSTRUCTION
FAP 310
BORING NO. HA 44
STA. 39+750, 12.00m LT
BORING NO. HA 46
STA. 39+800, 12.00m LT
BORING NO. SB 43
STA. 39+849, 10.50m LT
STA. 39+893, 17.000 m LT
BORING NO. US-SB1
GODFREY BUS LINES, INC.
PARCEL NO. 8701084
PROPOSED BRIDGE APPROACH
PAVEMENT STD 420401
BORING NO. HA 49
STA. 40+010, 12.00m LT
COMMERCIAL
TAVERN
MATCH LINE STA 39+700
MATCH LINE STA 40+050
N 27° 57′ 21″ W
BORING NO. HA 43
STA. 39+725, 12.00m RT
BORING NO. HA 45
STA. 39+775, 12.00m RT
BORING NO. SB 42
STA. 39+825, 12.00m RT
STA. 39+889, 15.000 m RT
BORING NO. US-SB2
BORING NO. HA 48
STA. 39+975, 12.00m RT
PEOPLE OF THE
STATE OF ILLINOIS
STA 39+881.0
PROPOSED TYPE D INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 18.7 m
USFL 193.885
DSFL 186.400, 35.2 m RT
METAL END SECTION STD 542401, 1-EACH
CONCRETE THRUST BLOCK, 1-EACH
SIMPSON & MARY JANE
REATHAFORD
PARCEL NO. 8701001
STA. 30+050, 8.00m RT
BORING NO. UM-HA 2
STA. 39+941, 14.40 m RT
BORING NO. US-SB4
STA 39+947.8
PROPOSED TYPE D INLET BOX STD 609006, 1-EACH
PIPE DRAIN, 300 mm Ø X 20.4 m
USFL 193.855
DSFL 186.300, 37.0 m RT
METAL END SECTION STD 542401, 1-EACH
CONCRETE THRUST BLOCK, 1-EACH
WALLACE A. & SHIRLEY M. GOSS
PARCEL NO. 8239059
BORING NO. RF-HA 4
STA. 0+300, 5.00m LT
BORING NO. RF-HA 3
STA. 0+200, 0.00m BL
RAMP E
RAMP D
SECTION 60-15
ENDS
STA 0+376.895
SECTION 60-15
BEGINS
STA 0+040.791
HOUSE
CONSTRUCTION LIMITS
PR ROW
JAMES FITZGERALD, MARK W. SIEVERS,
JAMES K. AND JUDITH D. SIEVERS
PARCEL NO. 8239057
PROPOSED BACK SLOPE PROTECTION
SEE DETAIL ON SHEET XX
BM 3023
EX ROW
ALTON ENTERTAINMENT
HOLDINGS, INC.
PARCEL NO. 8239061
BORING NO. RF-HA 5
STA. 0+400, 0.00m RT
BORING NO. RG-HA 1
STA. 0+025, 0.00m BL
GALAXY SUPPLY CO.
PARCEL NO. 8701079
TBR
FOR EXIT RAMP E TERMINAL DETAILS
AND PROFILE SEE SHEETS XX-XX
FOR GUARDRAIL STATIONS AND TYPES
SEE SHEETS XX-XX
FOR ENTRANCE RAMP D TERMINAL DETAILS
AND PROFILE SEE SHEETS XX-XX
DUANE & CANDACE RISTER
PARCEL NO. 8239060
PROPOSED ERS 900 mm Ø PIPE CULVERT
BY OTHERS
PROPOSED DOUBLE ERS 1.500 mm Ø PIPE CULVERT
WITH RIPRAP DITCH BY OTHERS
BORING NO. UM-HA 3
STA. 30+150, 8.05m LT
SCALE IN METERS
(1:500)

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

BM 3023-CHSLD "X" ON WEST FLANGE BOLT OF FIRE HYDRANT LOCATED ON SOUTH SIDE OF IL 111 IN FRONT OF RISTER'S AUTO.
IL 111 STA 30+094.3, 27.4 m RT
ELEV 187.116

SECTION 60-15-2
IL 111
BY OTHERS

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL STRATA PLAN
FAP 310 (IL 255)
SECTIONS 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY
DATE
CHECKED BY

IL 255 (FAP 310), STA 39+700 TO STA 40+050

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	134
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

	BY	DATE
FINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

12/7/2007

	BY	DATE
ORIGINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

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STA 39+885.77 TO STA 39+943.45 (S.B. & N.B.)
BRIDGE OMISSION

HA 43 BEGINNING
ELEV. 185.51

HA 43

Qu	Wx
125 S/10 25	GRAY SILTY CLAY
153 S/10 26	
125 S/15 26	
172 S/10 26	
182 S/5 24	BROWN & GRAY CLAY LOAM
153 S/10 24	SEMI-SATURATED CLAY LOAM
163 S/10 19	
NC 21	

SN 060-0330 NB &
SN 060-0331 SB
(BY OTHERS -
SECTION 60-15HB-2)

PROPOSED FAP 310 PROFILE

+868 390 +961 500

116 50.0 ft (MIN) STRUCTURAL CLEARANCE 116 1:6

EMBANKMENT CONE
(BY OTHERS-SECTION 60-15HB-2)

HA 48 BEGINNING
ELEV. 188.7

HA 48

Qu	Wx
115 S/10 29	GRAY & BROWN SILTY CLAY
249 B 25	
105 S/15 25	
115 B 22	BROWN SILTY CLAY LOAM
163 S/10 20	BROWN CLAY LOAM
BORING 11/2/01	

HA 48 ENDING
ELEV. 184.6

+990

HA 49 BEGINNING
ELEV. 186.66

HA 49

Qu	Wx
88 B 30	
125 B 26	
96 S/15 25	
115 S/15 23	
153 S/10 22	BROWN CLAY LOAM
172 S/10 23	
BORING 11/2/01	

HA 49 ENDING
ELEV. 181.9

HA 46 BEGINNING
ELEV. 186.63

HA 46

Qu	Wx
125 S/10 28	BROWN & GRAY SILTY CLAY
96 S/15 26	BROWN & GRAY SILTY CLAY LOAM
105 S/15 25	
153 B 23	BROWN & GRAY CLAY LOAM
134 S/15 22	
86 S/10 24	
115 S/10 21	
BORING 12/5/01	

HA 46 ENDING
ELEV. 181.1

EXISTING FAP 310 PROFILE

+823

SB 42 BEGINNING
ELEV. 186.59

SB 43 BEGINNING
ELEV. 186.59

EARTHWORK INCLUDED IN SECTION 60-15HB-2

SB 42

Qu	Wx
211 S/10 27	
115 S/10 26	
86 S/20 25	BROWN & GRAY SILTY LOAM
115 S/20 24	
96 S/10 24	
144 S/10 21	
153 S/10 20	BROWN & GRAY CLAY LOAM
144 S/10 19	
BORING 5/1/01	

HA 42 ENDING
ELEV. 180.3

SB 43

Qu	Wx
192 S/10 23	BROWN & GRAY SILT LOAM A-6(10)
144 S/10 22	
125 S/10 19	GRAY SILTY CLAY LOAM A-6(11)
125 S/10 22	
220 S/5 21	BROWN & GRAY SILTY CLAY LOAM A-6(13)
105 S/5 19	
172 S/10 14	
335 S/10 10	BROWN CLAY LOAM A-6(4)
BORING 5/1/01	

SB 43 ENDING
ELEV. 179.7

HA 42 BEGINNING
ELEV. 185.53, STA. 37+700

HA 42

Qu	Wx
144 S/15 27	GRAY SILTY CLAY
163 S/15 25	
115 S/15 27	GRAY CLAY LOAM
182 S/15 20	(VERY SANDY AND GRAVELLY)
38 S/10 22	
BORING 1/2/02	

(HA 42 ENDING
ELEV. 180.7

HA 44 BEGINNING
ELEV. 186.16

HA 44

Qu	Wx
134 S/15 25	BROWN & GRAY SILTY CLAY
86 S/20 26	BROWN & GRAY SILTY CLAY
105 B 28	
134 B 22	GRAY SILTY CLAY LOAM
105 S/15 24	BROWN & GRAY CLAY LOAM
192 S/10 21	
BORING 12/5/01	

HA 44 ENDING
ELEV. 181.4

HA 45 BEGINNING
ELEV. 186.31

HA 45

Qu	Wx
163 S/15 26	BROWN & GRAY SILTY CLAY
182 S/15 24	
153 S/15 23	GRAY SILTY CLAY LOAM
96 S/15 24	
96 S/15 24	GRAY CLAY LOAM
163 S/15 21	
172 S/10 21	
96 S/5 19	
BORING 12/5/01	

HA 45 ENDING
ELEV. 180.8

BORING 1/2/02
HA 43 ENDING
ELEV. 180.0

185.624 192.343
185.530 192.857
185.862 193.306
186.609 193.690
186.931 194.008
186.594 194.262
185.902 194.450
186.267 194.572
187.157 194.630
186.895 194.622
187.439 194.550
188.674 194.412
189.656 194.208
190.960 193.940
190.757 193.606

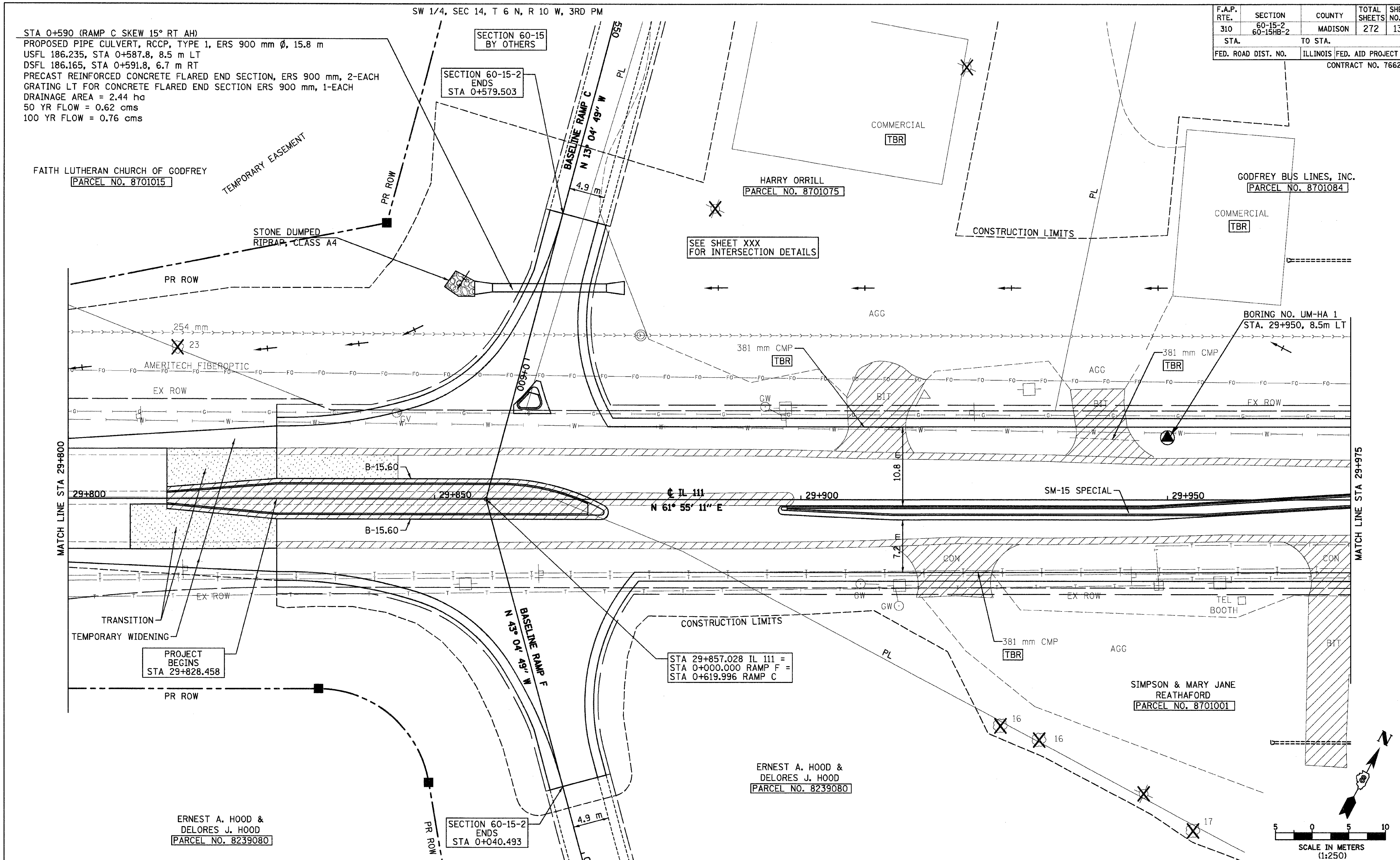
39+700 39+750 39+800 39+850 39+900 39+950 40+000 40+050

IL 255 (FAP 310), STA 39+700 TO STA 40+050

SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	135
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM
STA 0+590 (RAMP C SKEW 15° RT AH)
PROPOSED PIPE CULVERT, RCCP, TYPE 1, ERS 900 mm Ø, 15.8 m
USFL 186.235, STA 0+587.8, 8.5 m LT
DSFL 186.165, STA 0+591.8, 6.7 m RT
PRECAST REINFORCED CONCRETE FLARED END SECTION, ERS 900 mm, 2-EACH
GRATING LT FOR CONCRETE FLARED END SECTION ERS 900 mm, 1-EACH
DRAINAGE AREA = 2.44 ha
50 YR FLOW = 0.62 cms
100 YR FLOW = 0.76 cms
SECTION 60-15 BY OTHERS
SECTION 60-15-2 ENDS STA 0+579.503
BASELINE RAMP C N 13° 04' 49" W
PL
FAITH LUTHERAN CHURCH OF GODFREY
PARCEL NO. 8701015
TEMPORARY EASEMENT
PR ROW
STONE DUMPED RIPRAP, CLASS A4
4.9 m
COMMERCIAL
TBR
HARRY ORRILL
PARCEL NO. 8701075
GODFREY BUS LINES, INC.
PARCEL NO. 8701084
CONSTRUCTION LIMITS
SEE SHEET XXX FOR INTERSECTION DETAILS
AGG
254 mm
23
AMERITECH FIBEROPTIC
EX ROW
381 mm CMP
BIT
ACC
GW
BORING NO. UM-HA 1
STA. 29+950, 8.5m LT
MATCH LINE STA 29+800
MATCH LINE STA 29+975
B-15.60
29+800
29+850
℄ IL 111
N 61° 55' 11" E
29+900
10.8 m
SM-15 SPECIAL
29+950
7.2 m
CON
TRANSITION
TEMPORARY WIDENING
EX ROW
PROJECT BEGINS STA 29+828.458
BASELINE RAMP F N 43° 04' 49" W
CONSTRUCTION LIMITS
STA 29+857.028 IL 111 = STA 0+000.000 RAMP F = STA 0+619.996 RAMP C
TEL BOOTH
SIMPSON & MARY JANE REATHAFORD
PARCEL NO. 8701001
16
17
ERNEST A. HOOD & DELORES J. HOOD
PARCEL NO. 8239080
SECTION 60-15-2 ENDS STA 0+040.493
N
SCALE IN METERS (1:250)

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

SECTION 60-15 BY OTHERS

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL STRATA PLAN

FAP 310 (IL 255)

SECTION 60-15-2 & 60-15HB-2

MADISON COUNTY

DRAWN BY EBB

DATE

CHECKED BY

IL 111, STA 29+800 TO STA 29+975

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	136
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

12/7/2007

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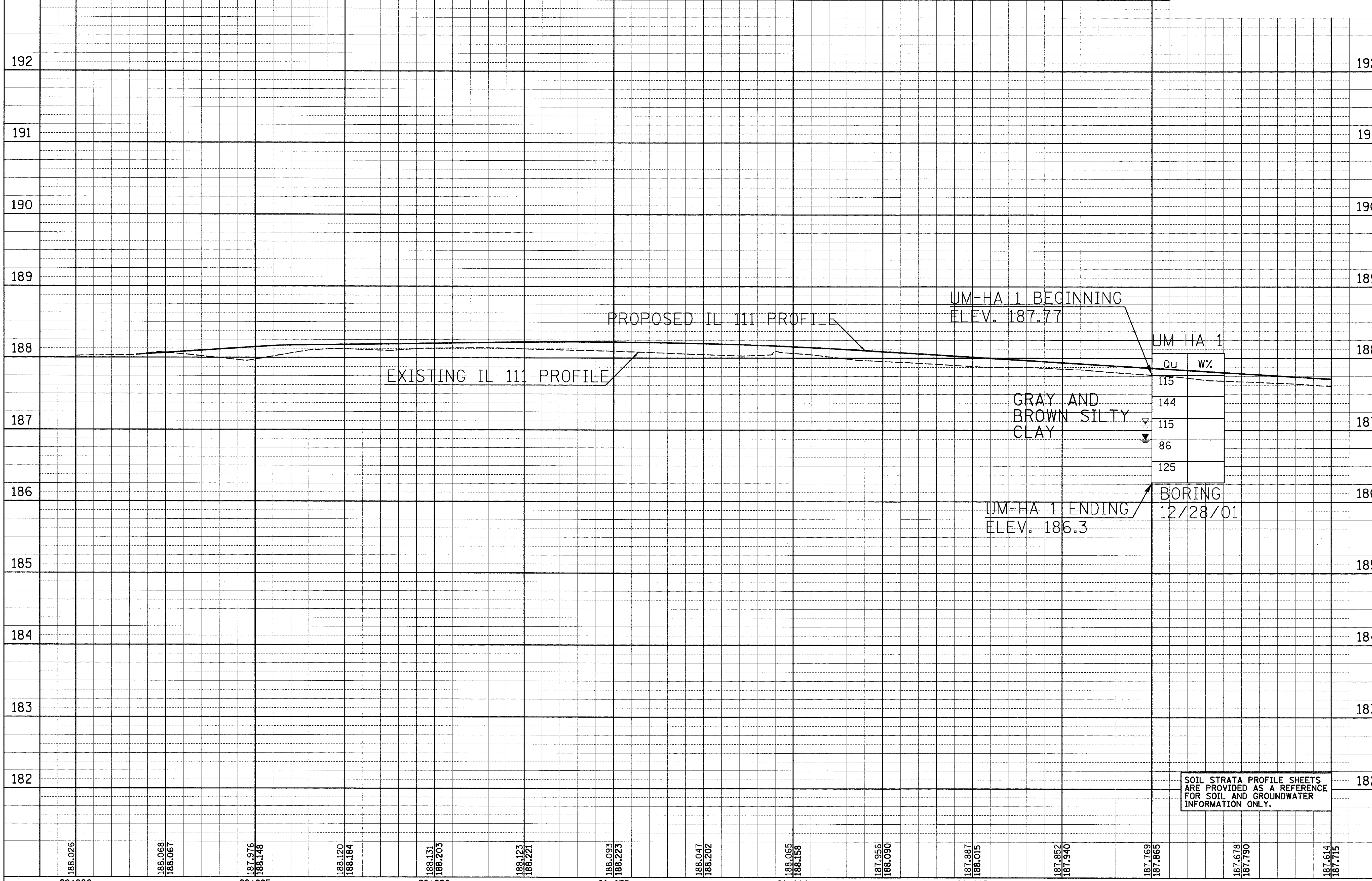


192
191
190
189
188
187
186
185
184
183
182
UM-HA 1 BEGINNING
ELEV. 187.77
PROPOSED IL 111 PROFILE
EXISTING IL 111 PROFILE
UM-HA 1
Qu
W%
115
144
115
86
125
GRAY AND
BROWN SILTY
CLAY
BORING
12/28/01
UM-HA 1 ENDING
ELEV. 186.3
SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.
188.026
188.068
188.067
187.976
188.148
188.120
188.184
188.131
188.203
188.123
188.221
188.093
188.223
188.047
188.202
188.065
188.158
187.956
188.090
187.887
188.015
187.852
187.940
187.769
187.865
187.678
187.790
187.614
187.715
29+800
29+825
29+850
29+875
29+900
29+925
29+950
29+975

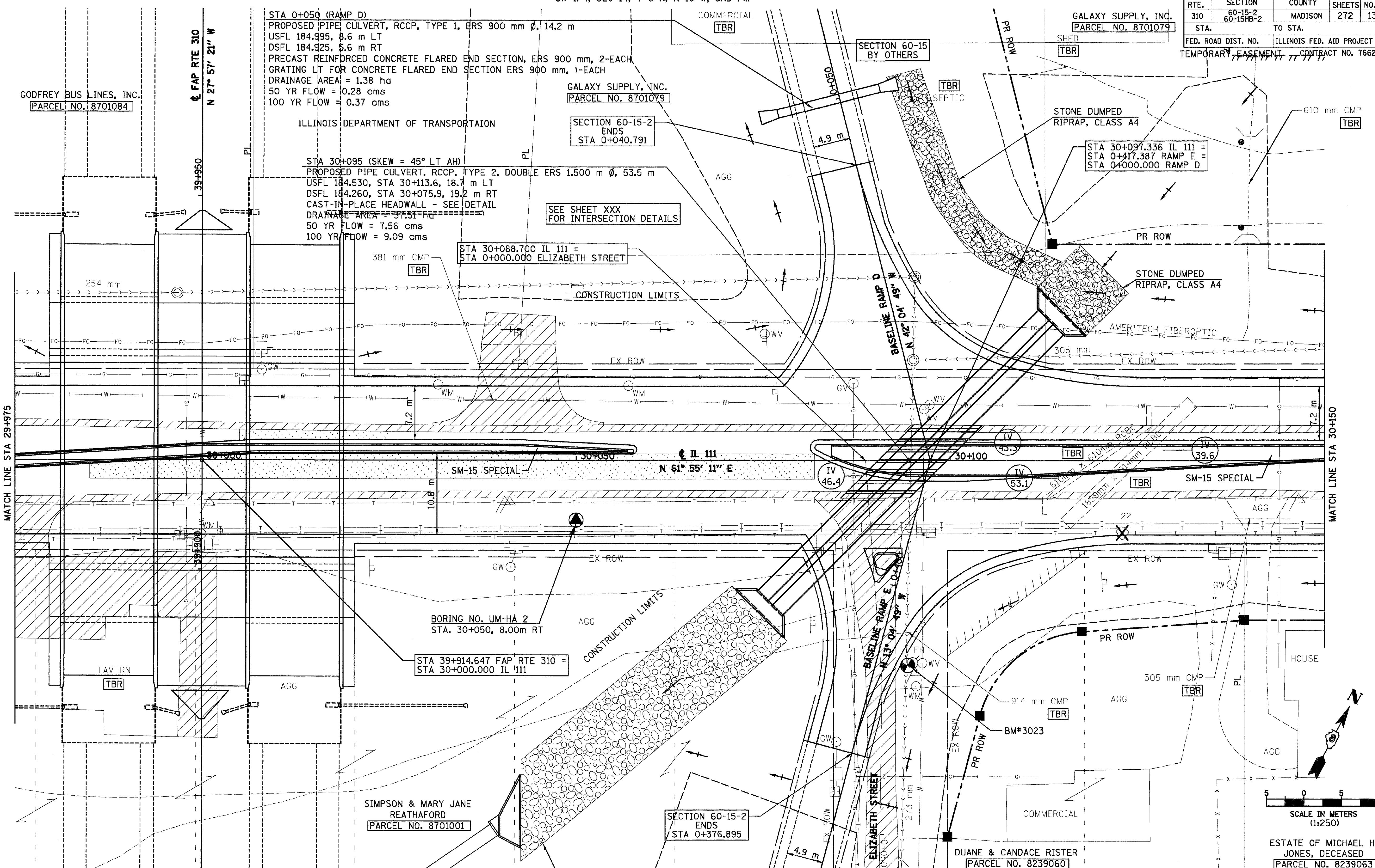
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	137

STA. TO STA.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CONTRACT NO. 76624

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM



STA 0+050 (RAMP D)
PROPOSED PIPE CULVERT, RCCP, TYPE 1, ERS 900 mm Ø, 14.2 m
USFL 184.995, 8.6 m LT
DSFL 184.925, 5.6 m RT
PRECAST REINFORCED CONCRETE FLARED END SECTION, ERS 900 mm, 2-EACH
GRATING LT FOR CONCRETE FLARED END SECTION ERS 900 mm, 1-EACH
DRAINAGE AREA = 1.38 ha
50 YR FLOW = 0.28 cms
100 YR FLOW = 0.37 cms
ILLINOIS DEPARTMENT OF TRANSPORTAION
STA 30+095 (SKEW = 45° LT AH)
PROPOSED PIPE CULVERT, RCCP, TYPE 2, DOUBLE ERS 1.500 m Ø, 53.5 m
USFL 184.530, STA 30+113.6, 18.7 m LT
DSFL 184.260, STA 30+075.9, 19.2 m RT
CAST-IN-PLACE HEADWALL - SEE DETAIL
DRAINAGE AREA = 37.51 ha
50 YR FLOW = 7.56 cms
100 YR FLOW = 9.09 cms
GODFREY BUS LINES, INC.
PARCEL NO. 8701084
℄ FAP RTE 310
N 27° 57' 21" W
COMMERCIAL
TBR
GALAXY SUPPLY, INC.
PARCEL NO. 8701079
SECTION 60-15-2 ENDS STA 0+040.791
SECTION 60-15 BY OTHERS
SEPTIC
SHED
GALAXY SUPPLY, INC.
PARCEL NO. 8701079
PR ROW
TEMPORARY EASEMENT
STONE DUMPED RIPRAP, CLASS A4
610 mm CMP
STA 30+097.336 IL 111 = STA 0+417.387 RAMP E = STA 0+000.000 RAMP D
SEE SHEET XXX FOR INTERSECTION DETAILS
STA 30+088.700 IL 111 = STA 0+000.000 ELIZABETH STREET
381 mm CMP
254 mm
CONSTRUCTION LIMITS
AGG
BASELINE RAMP D N 42° 04' 49" W
AMERITECH FIBEROPTIC
305 mm
EX ROW
MATCH LINE STA 29+975
MATCH LINE STA 30+150
7.2 m
10.8 m
SM-15 SPECIAL
℄ IL 111
N 61° 55' 11" E
30+000
30+050
30+100
IV 46.4
IV 45.3
IV 53.1
IV 39.6
610mm x 610mm RCBC
1830mm x 914mm RCBC
BORING NO. UM-HA 2
STA. 30+050, 8.00m RT
STA 39+914.647 FAP RTE 310 = STA 30+000.000 IL 111
TAVERN
BASELINE RAMP E N 13° 04' 49" W
ELIZABETH STREET
914 mm CMP
BM#3023
305 mm CMP
HOUSE
COMMERCIAL
SIMPSON & MARY JANE REATHAFORD
PARCEL NO. 8701001
SECTION 60-15-2 ENDS STA 0+376.895
4.9 m
DUANE & CANDACE RISTER
PARCEL NO. 8239060
ESTATE OF MICHAEL H. JONES, DECEASED
PARCEL NO. 8239063
SCALE IN METERS (1:250)
STONE DUMPED RIPRAP, CLASS A4

SECTION 60-15 BY OTHERS

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

BM 3023- CHSLD "X" ON WEST FLANGE BOLT OF FIRE HYDRANT LOCATED ON SOUTH SIDE OF BUS IL 111 IN FRONT OF RISTER'S AUTO.
IL 111 Sta 30+095.0, 27.1 m Rt
ELEV 187.116

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL STRATA PLAN
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE
CHECKED BY

IL 111, STA 29+975 TO STA 30+150

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	138
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

	BY	DATE
FINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

12/7/2007

UM-HA 2 BEGINNING
ELEV. 187.12

UM-HA 2

Qu	W%
115	
96	
163	
172	
192	

EXISTING IL 111 PROFILE

GRAY SILTY CLAY LOAM

BROWN SILTY CLAY

UM-HA 2 ENDING
ELEV. 185.6

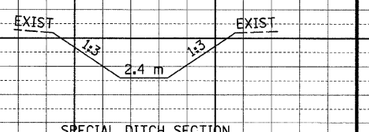
BORING
12/28/01

PROPOSED IL 111 PROFILE

191 190 189 188 187 186 185 184 183 182 181

BEGIN SP. DT. LT.
STA 30+117.5, 22.5 m LT
ELEV 184.550
GRADE = +5.17%

END SP. DT. LT.
STA 30+141.0, 50.0 m LT
ELEV 185.420
GRADE = +5.17%



SPECIAL DITCH SECTION

29+975	30+000	30+025	30+050	30+075	30+100	30+125	30+150
187.614 187.715	187.528 187.640	187.483 187.565	187.403 187.490	187.321 187.415	187.222 187.340	187.121 187.265	187.050 187.190
186.962 187.115	186.908 187.041	186.857 187.006	186.870 187.027	186.968 187.105	187.122 187.240	187.321 187.431	

SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

IL 111, STA 29+975 TO STA 30+150

	BY	DATE
ORIGINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

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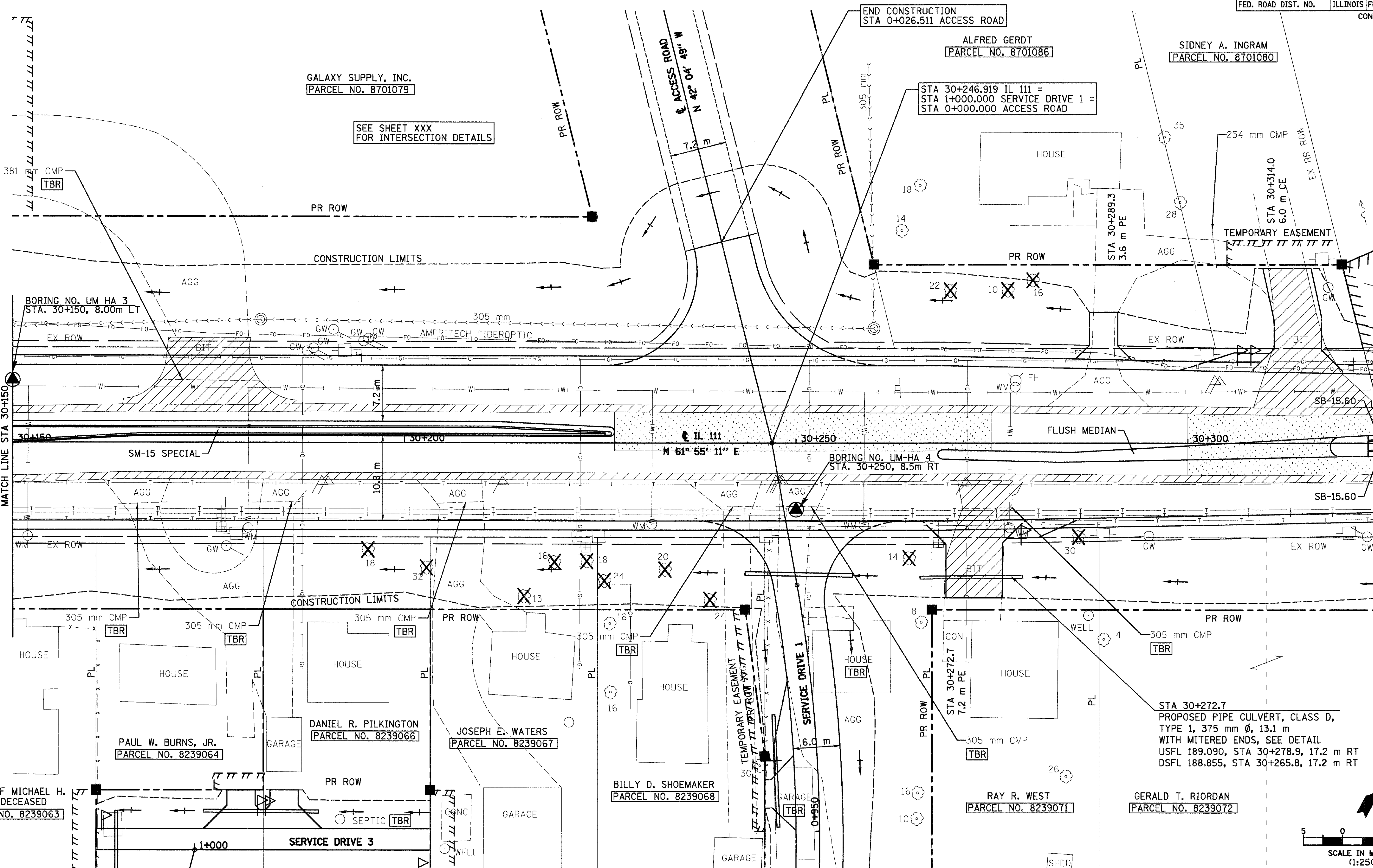
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	139
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM



SECTION 60-16 BY OTHERS
END CONSTRUCTION STA 0+026.511 ACCESS ROAD
ALFRED GERDT
PARCEL NO. 8701086
SIDNEY A. INGRAM
PARCEL NO. 8701080
GALAXY SUPPLY, INC.
PARCEL NO. 8701079
STA 30+246.919 IL 111 = STA 1+000.000 SERVICE DRIVE 1 = STA 0+000.000 ACCESS ROAD
SEE SHEET XXX FOR INTERSECTION DETAILS
℄ ACCESS ROAD N 42° 04' 49" W
7.2 m
305 mm
254 mm CMP
381 mm CMP
TBR
HOUSE
PR ROW
STA 30+289.3 3.6 m PE
STA 30+314.0 6.0 m CE
EX RR ROW
TEMPORARY EASEMENT
CONSTRUCTION LIMITS
AGG
BORING NO. UM HA 3 STA. 30+150, 8.00m LT
AMERITECH FIBEROPTIC
EX ROW
BIT
FH
WV
MATCH LINE STA 30+150
MATCH LINE STA 30+325
30+150
30+200
30+250
30+300
℄ IL 111
N 61° 55' 11" E
FLUSH MEDIAN
SM-15 SPECIAL
BORING NO. UM-HA 4 STA. 30+250, 8.5m RT
SB-15.60
7.2 m
10.8 m
WM
GW
305 mm CMP
PL
SERVICE DRIVE 1
6.0 m
CON
WELL
STA 30+272.7 7.2 m PE
STA 30+272.7
PROPOSED PIPE CULVERT, CLASS D, TYPE 1, 375 mm Ø, 13.1 m
WITH MITERED ENDS, SEE DETAIL
USFL 189.090, STA 30+278.9, 17.2 m RT
DSFL 188.855, STA 30+265.8, 17.2 m RT
PAUL W. BURNS, JR.
PARCEL NO. 8239064
DANIEL R. PILKINGTON
PARCEL NO. 8239066
JOSEPH E. WATERS
PARCEL NO. 8239067
BILLY D. SHOEMAKER
PARCEL NO. 8239068
RAY R. WEST
PARCEL NO. 8239071
GERALD T. RIORDAN
PARCEL NO. 8239072
ESTATE OF MICHAEL H. JONES, DECEASED
PARCEL NO. 8239063
GARAGE
SEPTIC
SHED
SERVICE DRIVE 3
1+000
0+950
N
SCALE IN METERS (1:250)

SEE SHEET XXX FOR SERVICE DRIVES PLAN DRAWING

VIRGIL W. & DORIS M. ROADY
PARCEL NO. 8239070

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL STRATA PLAN
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE
CHECKED BY

IL 111, STA 30+150 TO STA 30+325

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

12/7/2007
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	140
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

EXISTING IL 111 PROFILE

PROPOSED IL 111 PROFILE
UM-HA 4 BEGINNING
ELEV. 188.62

UM-HA 3 BEGINNING
ELEV. 187.32

UM-HA 3

Qu	W%
115	
125	
134	
125	
125	

BROWN SILTY CLAY

BORING
12/28/01

UM-HA 3 ENDING
ELEV. 185.8

GRAY SILT LOAM

BROWN SILTY CLAY

UM-HA 4

Qu	W%
96	
125	
144	
163	
172	

BORING
12/28/01

UM-HA 4 ENDING
ELEV. 187.1

193 192 191 190 189 188 187 186 185 184 183

187.321 187.431 | 187.514 187.679 | 187.814 187.965 | 188.096 188.253 | 188.417 188.540 | 188.714 188.828 | 189.005 189.115 | 189.276 189.403 | 189.548 189.690 | 189.850 189.978 | 190.124 190.262 | 190.416 190.513 | 190.651 190.723 | 190.865 190.893 | 190.993 191.022

30+150 30+175 30+200 30+225 30+250 30+275 30+300 30+325

SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

IL 111, STA 30+150 TO STA 30+325

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	141
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

SW 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

SE 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

PROPOSED CROSSING SURFACE WITH A TRACK PANEL TO BE INSTALLED BY THE RAILROAD

COMMERCIAL

GEORGE COURT BARKER
PARCEL NO. 8239077

CYNTHIA E. NEWBERRY &
KEVEN D. BARKER
PARCEL NO. 8239076

SIDNEY A. INGRAM
AS TRUSTEE
PARCEL NO. 8239075

STONE DUMPED
RIPRAP, CLASS A4

RR SIGNAL TO BE
RELOCATED BY RR

305 mm CMP
TBR

EX RR ROW

BORING NO. UM-HA 5
STA. 30+350, 9.00m LT

STA 30+365.3
8.9 m CE

STA 30+365.3
PROPOSED PIPE CULVERT, CLASS D,
TYPE 1, 375 mm Ø, 14.4 m
WITH MITERED ENDS, SEE DETAIL
USFL 189.360, STA 30+372.4, 17.5 m LT
DSFL 189.290, STA 30+358.0, 18.3 m LT

CURVE IL 111
PI STA = 30+696.467
Δ = 49° 37′ 45″ (LT)
R = 671.750 m
T = 310.599 m
L = 581.864 m
E = 68.331 m
PC STA = 30+385.868
PT STA = 30+967.732
SE = 5.0% (MATCH EXISTING)
SE ATTAINED STA 30+348.000 TO STA 30+398.000

STA 30+491.4
PROPOSED PIPE CULVERT, CLASS D,
TYPE 1, 375 mm Ø, 15.2 m
WITH MITERED ENDS, SEE DETAIL
USFL 189.995, STA 30+499.1, 12.8 m LT
DSFL 189.920, STA 30+483.6, 13.0 m LT

STA 30+491.4
10.6 m CE

381 mm CMP
TBR

PR ROW

CONSTRUCTION LIMITS

AGG

AMERITECH FIBEROPTIC
EX ROW

CON

MATCH LINE STA 30+325

SB-15.60

II
11.6

30+350

II
10.6

PC STA 30+385.℄ IL 111

30+400

30+450

MATCH LINE STA 30+500

BORING NO. UM-HA 6
STA. 30+450, 8.5m RT

AGG

GW

SIGN
TBR

EX ROW

PR ROW

CONSTRUCTION LIMITS

AGG

PR ROW

381 mm CMP
TBR

AGG

STA 30+446.1
6.0 m CE

STA 30+490.4
7.0 m CE

381 mm CMP
TBR

BIT

COMMERCIAL

CON

RR
CABINET

RR SIGNAL TO BE
RELOCATED BY RR

1/4 SECTION LINE

EX RR ROW

EX RR ROW

GERALD T. RIORDAN
PARCEL NO. 8239072

STA 30+350 (SKEW 13° RT AH)
PROPOSED PIPE CULVERT, RCCP, TYPE 1, 900 mm Ø, 27.5 m
WITH PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 2-EACH
USFL 189.380, STA 30+353.0, 13.2 m RT
DSFL 189.245, STA 30+347.0, 13.5 m LT
DRAINAGE AREA = 6.22 ha
50 YR FLOW = 0.85 cms
100 YR FLOW = 1.05 cms

STONE DUMPED
RIPRAP, CLASS A4

STA 30+341.9 (SKEW 13° RT AH)
REMOVE EXISTING 610 mm X 610 mm EXTENSIONS
PLUG & FILL EXISTING 610 mm X 457 mm RCBC

SEE SHEET XXX
FOR THE RAISED MEDIAN DETAILS

STA 30+446.1
PROPOSED PIPE CULVERT, CLASS D,
TYPE 1, 375 mm Ø, 11.8 m
WITH MITERED ENDS, SEE DETAIL
USFL 190.235, STA 30+451.8, 14.5 m RT
DSFL 190.175, STA 30+440.0, 14.8 m RT

P & R PROMOTIONS, INC.
PARCEL NO. 8239073

STA 30+490.4
PROPOSED PIPE CULVERT, CLASS D,
TYPE 1, 375 mm Ø, 11.9 m
WITH MITERED ENDS, SEE DETAIL
USFL 190.455, STA 30+496.2, 13.3 m RT
DSFL 190.400, STA 30+484.6, 13.5 m RT

AGG

GW

N

5 0 5 10
SCALE IN METERS
(1:250)

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

SE 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL STRATA PLAN
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB

DATE CHECKED BY

IL 111, STA 30+325 TO STA 30+500

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	142
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

12/7/2007

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195
194
193
192
191
190
189
188
187
186
185

PROPOSED IL 111 PROFILE

EXISTING IL 111 PROFILE

UM-HA 5 BEGINNING
ELEV. 188.92

UM-HA 5

Qu	W%
172	
115	
134	
115	
192	

GRAY SILTY CLAY LOAM

UM-HA 5 ENDING
ELEV. 187.4

BORING 12/28/01

UM-HA 6 BEGINNING
ELEV. 189.09

UM-HA 6

Qu	W%
144	
115	
144	
192	
172	

GRAY SILTY CLAY LOAM

BROWN SILTY CLAY

UM-HA 6 ENDING
ELEV. 187.6

BORING 12/28/01

SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

30+325	30+350	30+375	30+400	30+425	30+450	30+475	30+500
190.993 191.022	191.039 191.110	191.043 191.158	190.971 191.165	190.945 191.136	190.970 191.108	191.008 191.090	191.020 191.083
191.022 191.086	191.044 191.099	191.077 191.123	191.090 191.158	191.126 191.203	191.174 191.258	191.226 191.320	

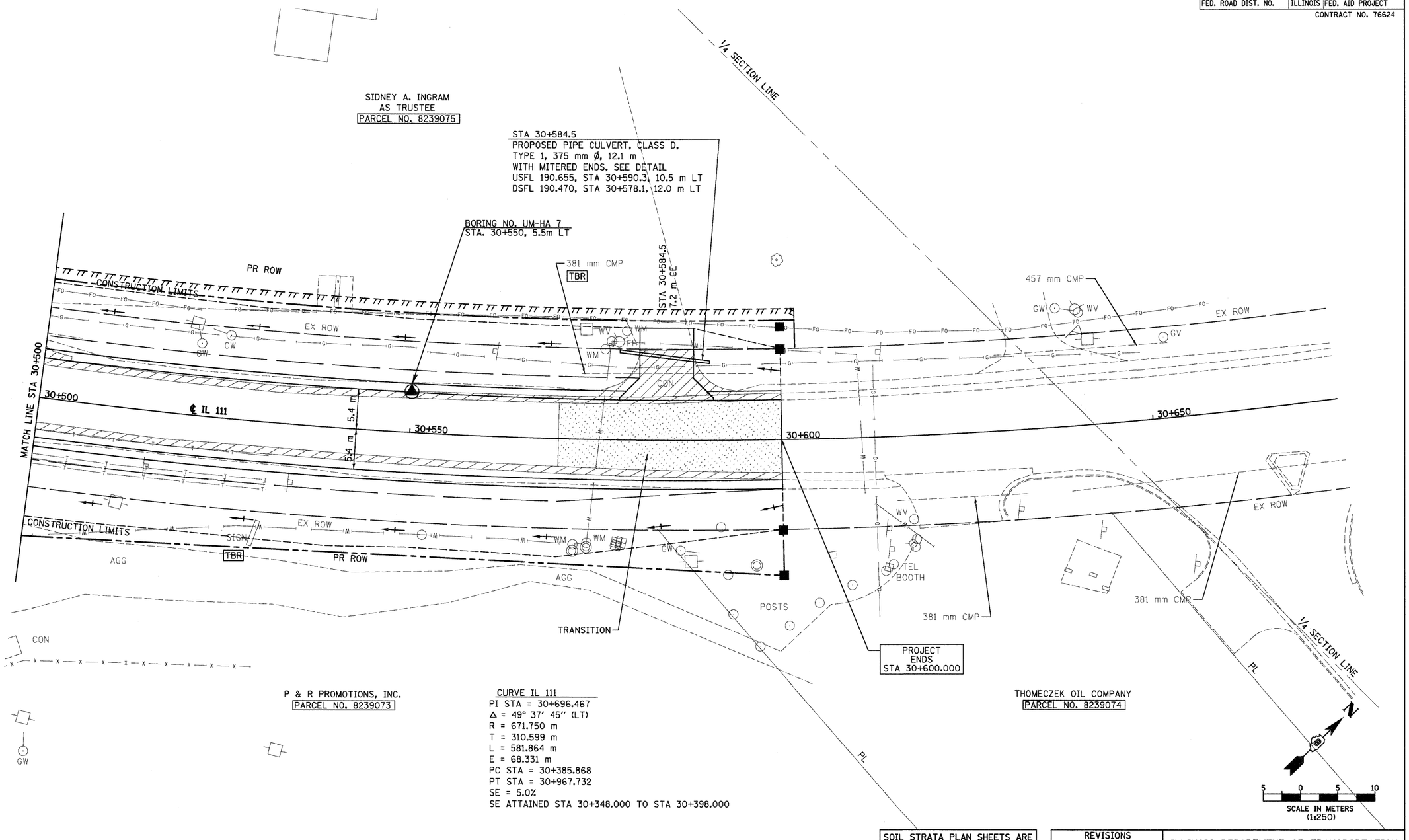
IL 111, STA 30+325 TO STA 30+500

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	143
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

SE 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

NE 1/4, SEC 14, T 6 N, R 10 W, 3RD PM



CURVE IL 111
PI STA = 30+696.467
Δ = 49° 37′ 45″ (LT)
R = 671.750 m
T = 310.599 m
L = 581.864 m
E = 68.331 m
PC STA = 30+385.868
PT STA = 30+967.732
SE = 5.0%
SE ATTAINED STA 30+348.000 TO STA 30+398.000

SOIL STRATA PLAN SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL STRATA PLAN
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE CHECKED BY
IL 111, STA 30+500 TO STA 30+675

SE 1/4, SEC 14, T 6 N, R 10 W, 3RD PM

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60-15-2 60-15HB-2	MADISON	272	144
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 76624

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	TEMPLATE	
PLOTTED	AREAS	
	AREAS CHECKED	

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	TEMPLATE	
PLOTTED	AREAS	
	AREAS CHECKED	

BY	DATE

UM-HA 7 BEGINNING
ELEV. 191.49

PROPOSED IL 111 PROFILE

EXISTING IL 111 PROFILE

BROWN SILTY CLAY

BROWN CLAY

UM-HA 7 ENDING
ELEV. 190.0

BORING
2/25/02

UM-HA 7

Qu	W%
48	
144	
144	
192	
168	

SOIL STRATA PROFILE SHEETS ARE PROVIDED AS A REFERENCE FOR SOIL AND GROUNDWATER INFORMATION ONLY.

30+500	30+525	30+550	30+575	30+600	30+625	30+650	30+675
191.226 191.320	191.301 191.383	191.334 191.445	191.388 191.508	191.494 191.570	191.555 191.614	191.658 191.658	191.716
191.827	191.897	191.984	192.083	192.153	192.224	192.289	

IL 111, STA 30+500 TO STA 30+675

:2/7/2007

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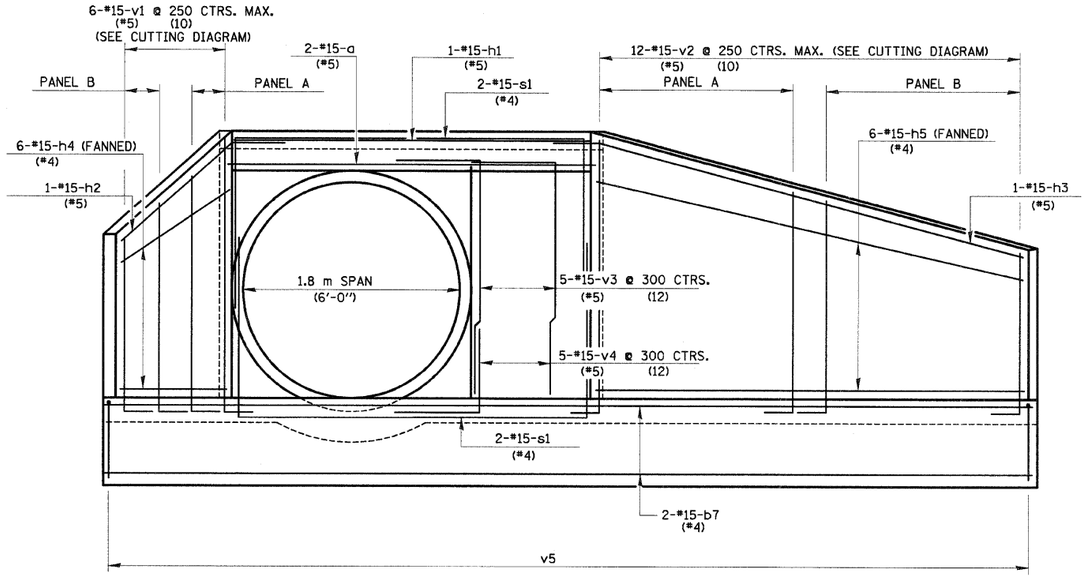
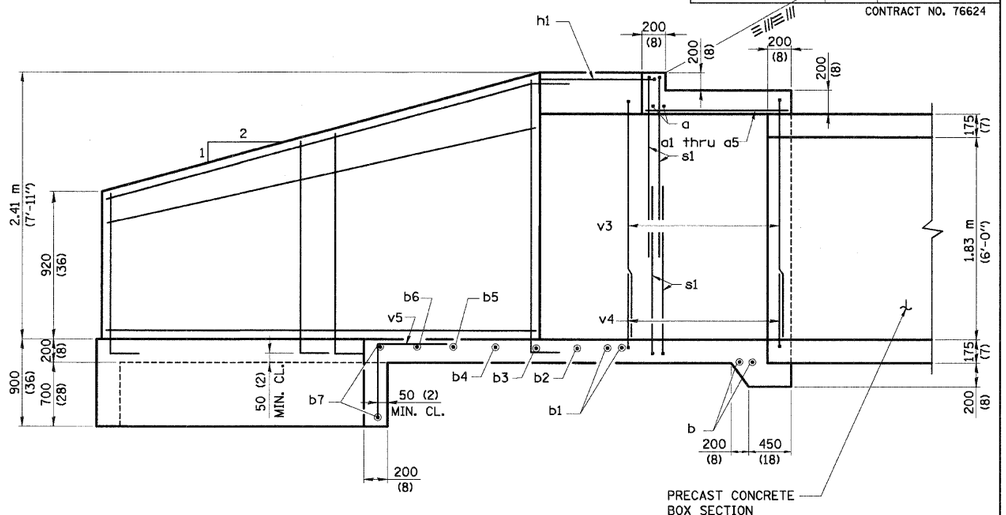
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	145
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

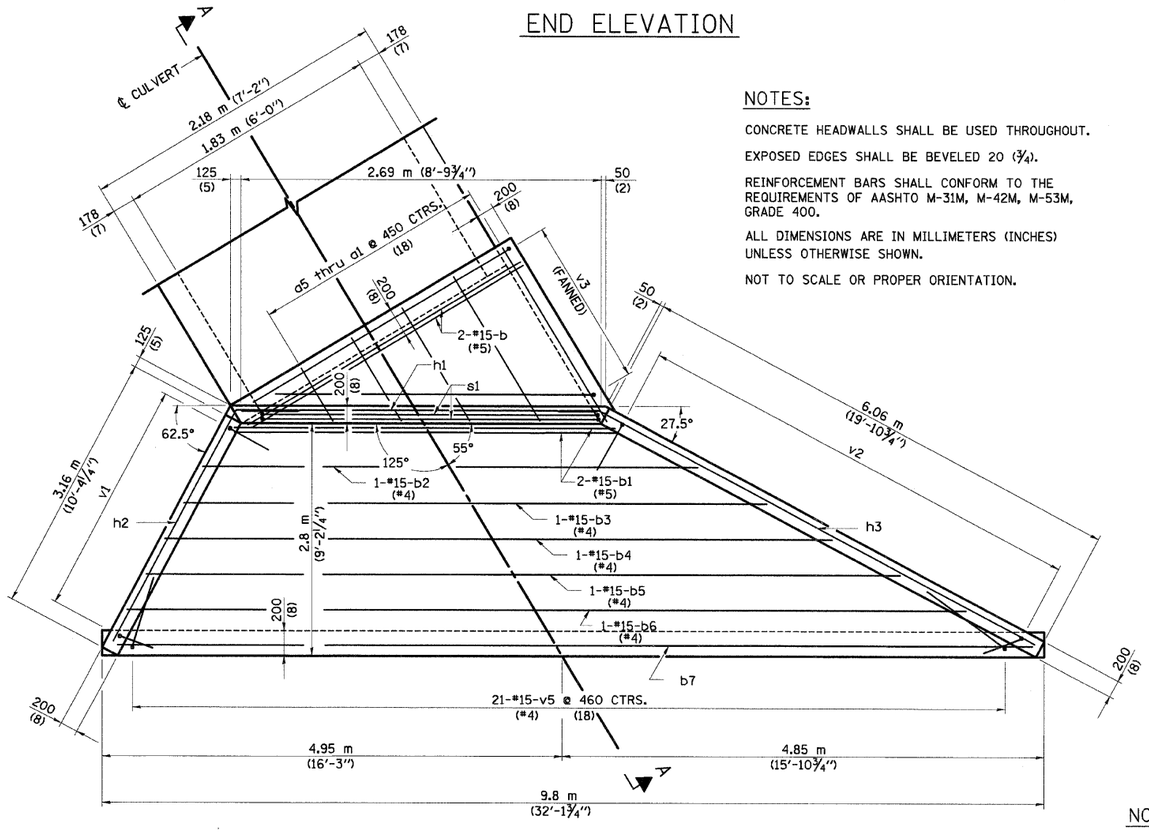
CONTRACT NO. 76624



END ELEVATION



SECTION A-A



PLAN

NOTES:

CONCRETE HEADWALLS SHALL BE USED THROUGHOUT.

EXPOSED EDGES SHALL BE BEVELED 20 (¾).

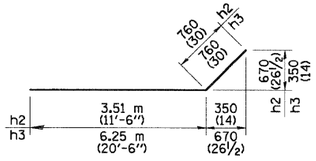
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31M, M-42M, M-53M, GRADE 400.

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

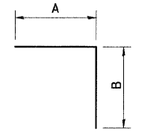
NOT TO SCALE OR PROPER ORIENTATION.

BILL OF MATERIAL

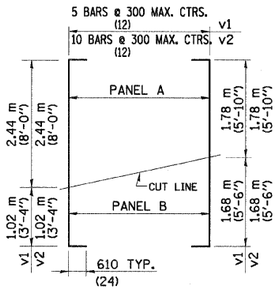
BAR	SIZE	NO.	LENGTH	SHAPE
a	No.15 (No.5)	2	2.82 m (9'-3")	
a1	(No.4)	1	1.78 m (5'-10")	
a2	(No.4)	1	1.47 m (4'-10")	
a3	(No.4)	1	1.14 m (3'-9")	
a4	(No.4)	1	840 (33)	
a5	(No.4)	1	510 (20)	
b	(No.5)	2	2.29 m (7'-6")	
b1	(No.5)	2	3.3 m (10'-10")	
b2	(No.4)	1	4.49 m (14'-9")	
b3	(No.4)	1	5.56 m (18'-3")	
b4	(No.4)	1	6.6 m (21'-8")	
b5	(No.4)	1	7.67 m (25'-2")	
b6	(No.4)	1	8.74 m (28'-8")	
b7	(No.4)	1	9.7 m (31'-10")	
h1	(No.5)	1	2.82 m (9'-3")	
h2	(No.5)	1	4.27 m (14'-0")	
h3	(No.5)	1	7.01 m (23'-0")	
h4	(No.4)	6	3.07 m (10'-1")	
h5	(No.4)	6	5.97 m (19'-7")	
v1	(No.5)	6	4.68 m (15'-4")	
v2	(No.5)	12	4.68 m (15'-4")	
v3	(No.5)	5	4.29 m (14'-1")	
v4	(No.5)	5	2.97 m (9'-9")	
v5	(No.4)	21	1.52 m (5'-0")	
s1	No.15 (No.4)	4	6.04 m (19'-10")	
CONCRETE HEADWALLS			m3 (C.Y.)	9.9 (12.9)
REINFORCEMENT BARS			kg (Lbs.)	500 (910)



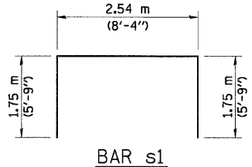
BARS h2 & h3



BAR	A	B
v3	2.21 m (7'-3")	2.08 m (6'-10")
v4	2.21 m (7'-3")	760 (30)
v5	760 (30)	760 (30)



CUTTING DIAGRAM
BARS v1 & v2



BAR s1

NOTES:

TABLE FOR ONE (1) HEADWALL ONLY. TWO (2) HEADWALLS REQUIRED.

BAR DIMENSIONS ARE OUT TO OUT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE HEADWALLS
STATION 39+838
1800 mm DIA. PIPE CULVERT
@ 35° SKEW

DRAWN BY PTW

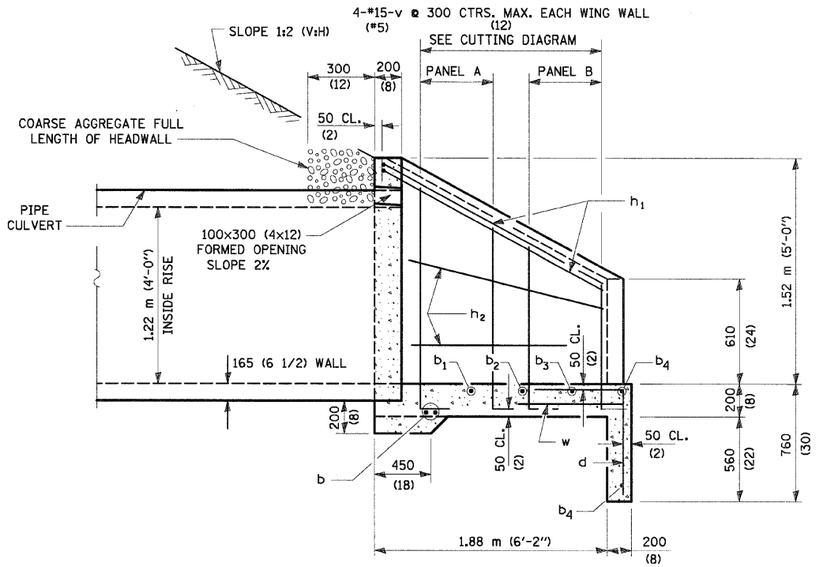
DATE CHECKED BY ADL

12/7/2007

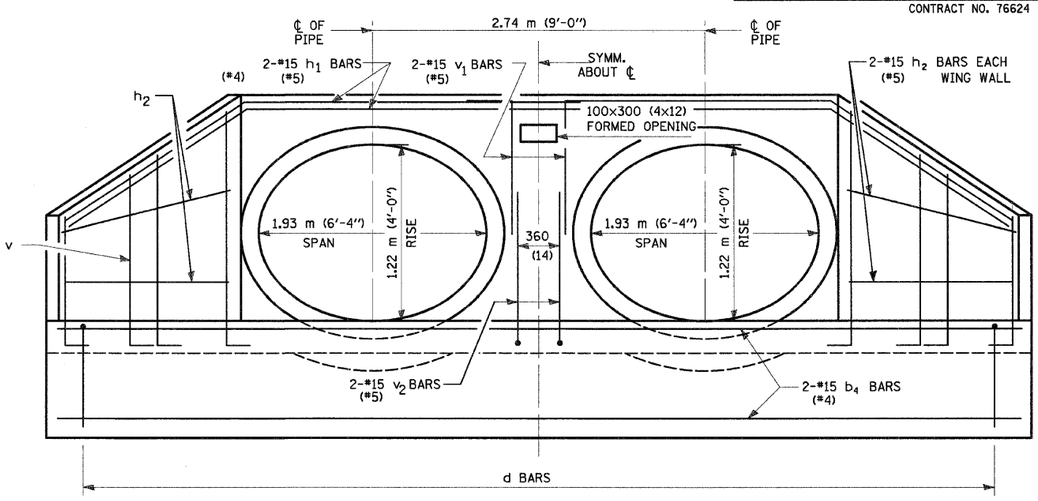
p:\00files\000224\dil11\headwall\headwall39838.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	146
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

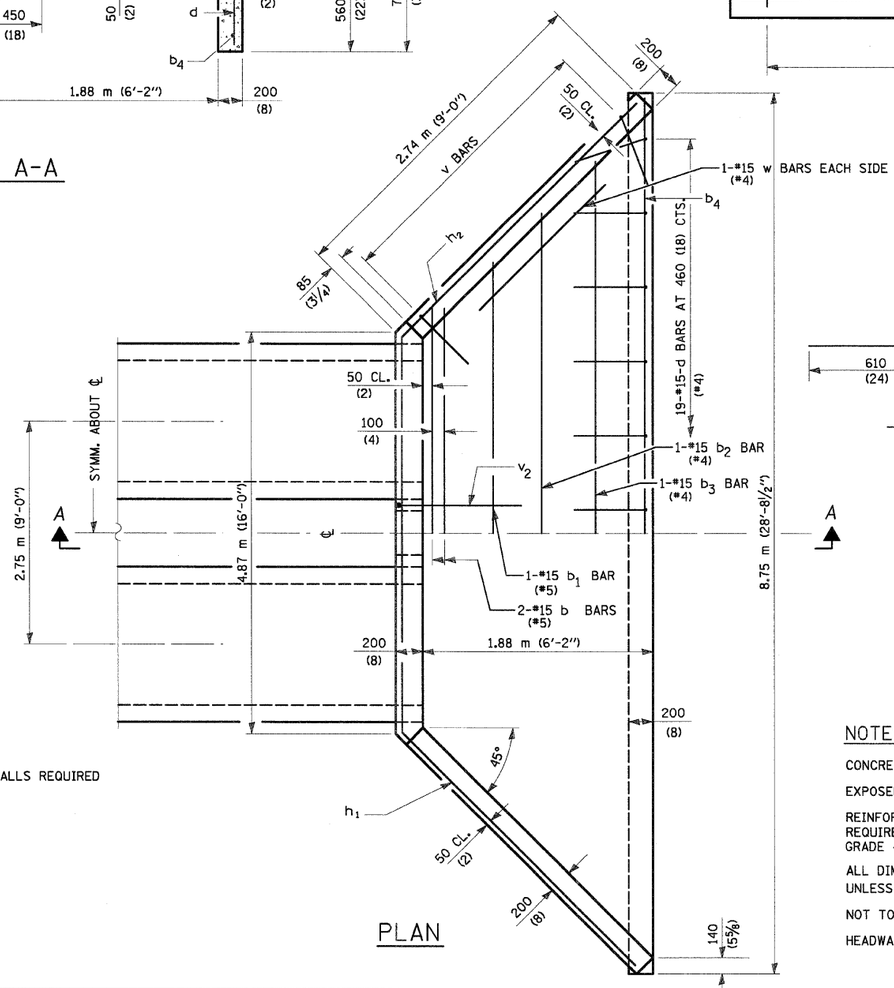
CONTRACT NO. 76624



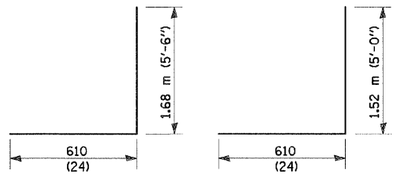
SECTION A-A



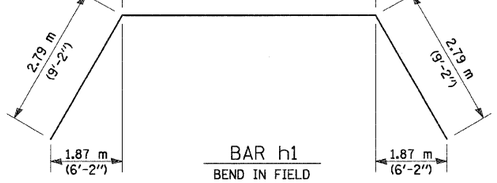
END ELEVATION



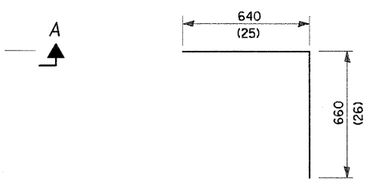
PLAN



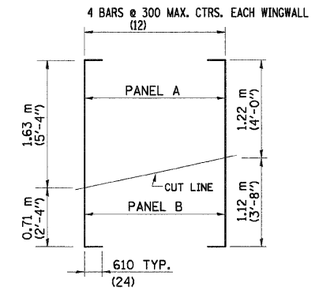
BAR v1 BAR v2



BAR h1
BEND IN FIELD



BAR d



CUTTING DIAGRAM
BAR v

BILL OF MATERIAL

BAR	SIZE	NO.	LENGTH	SHAPE
b	No.15 (No.5)	2	5.23 m (17'-2")	
b1	(No.5)	1	6.07 m (19'-11")	
b2	(No.4)	1	6.83 m (22'-5")	
b3	(No.4)	1	7.90 m (25'-11")	
b4	(No.4)	2	8.51 m (27'-11")	
d	(No.4)	19	1.3 m (4'-3")	
h1	(No.5)	2	10.40 m (34'-2")	
h2	(No.5)	4	2.67 m (8'-9")	
v	(No.5)	8	3.56 m (11'-8")	
v1	(No.5)	2	2.29 m (7'-6")	
v1	(No.5)	2	2.13 m (7'-0")	
w	No.15 (No.4)	2	1.22 m (4'-0")	

CONCRETE HEADWALLS	m3 (C.Y.)	5.8 (7.6)
REINFORCEMENT BARS	kg (Lbs.)	230 (420)

NOTES:

TABLE FOR ONE (1) HEADWALL ONLY. TWO (2) HEADWALLS REQUIRED

BAR DIMENSIONS ARE OUT TO OUT.

NOTES:

CONCRETE HEADWALLS SHALL BE USED THROUGHOUT.

EXPOSED EDGES SHALL BE BEVELED 20 (3/4).

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31M, M-42M, M-53M, GRADE 400.

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

NOT TO SCALE OR PROPER ORIENTATION.

HEADWALL AT 0° SKEW TO CULVERT ℄.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE HEADWALLS
STATION 30+095
DOUBLE ERS 1500 mm (5'-0") PIPE CULVERTS @ 45° SKEW

DRAWN BY PTW

DATE

CHECKED BY ADL

12/7/2007

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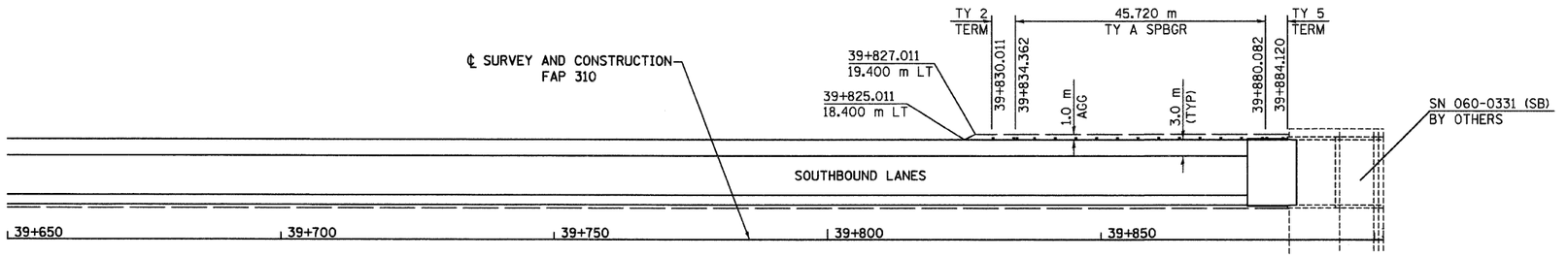
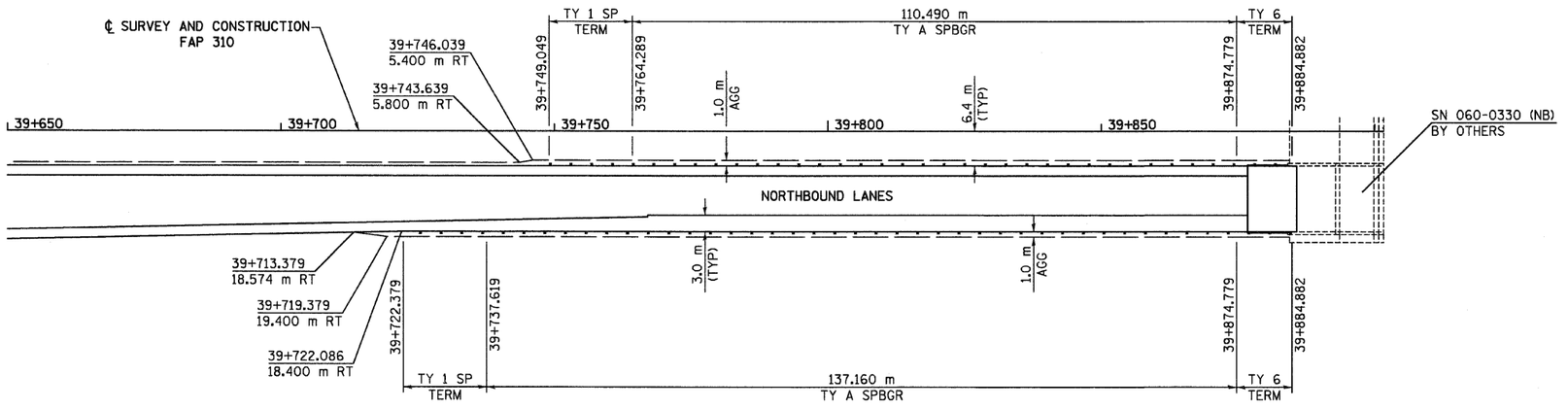
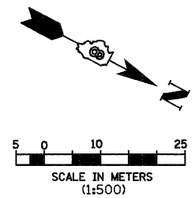
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	147
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624







FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GUARDRAIL & SHOULDER WIDENING
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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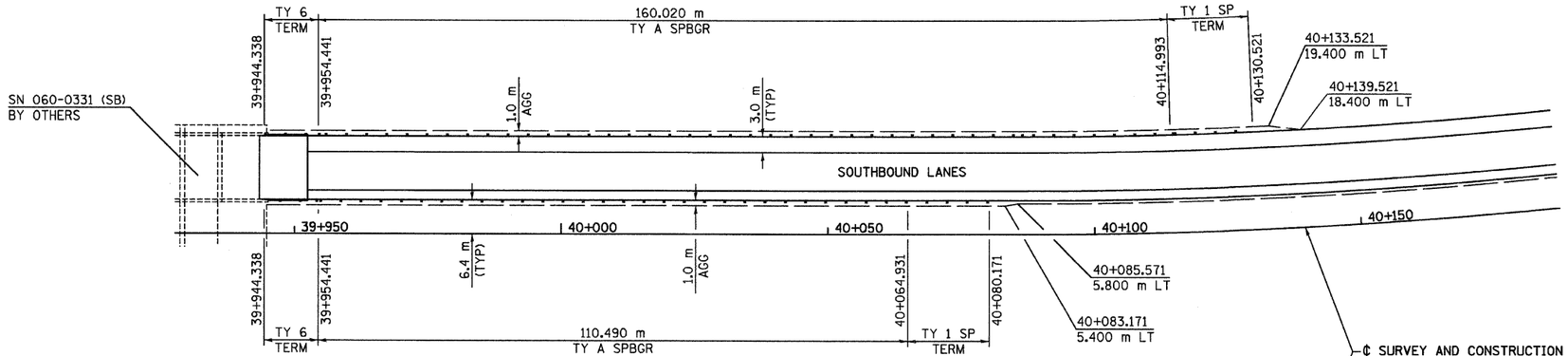
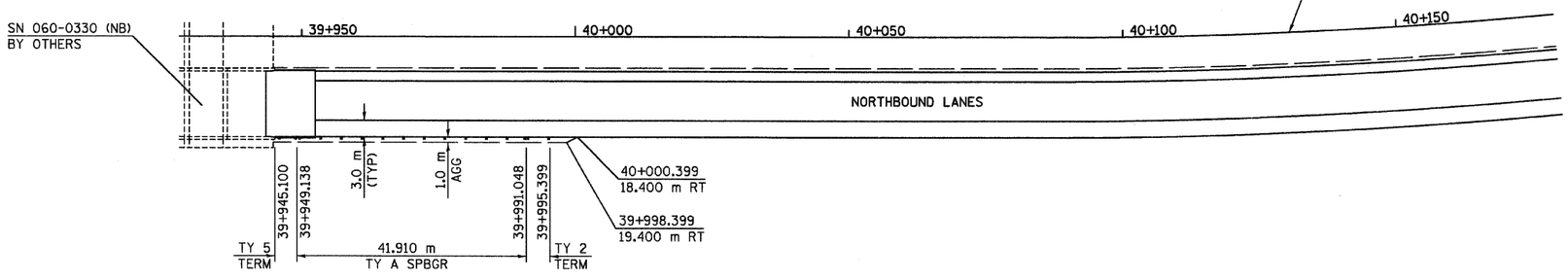
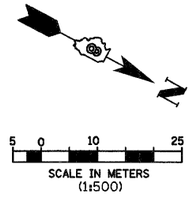
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	148
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624





FOR INFORMATION ONLY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GUARDRAIL & SHOULDER WIDENING
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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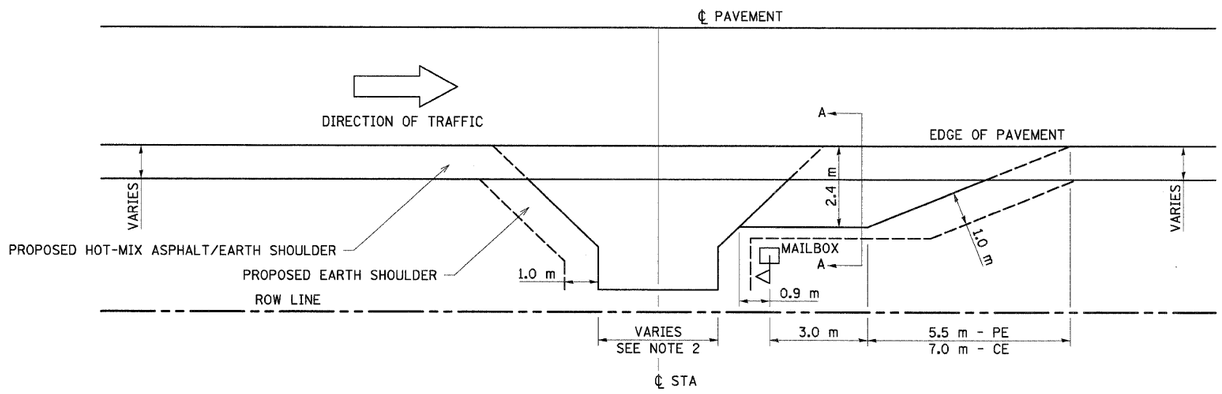
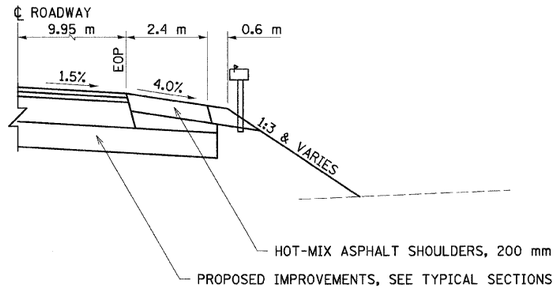
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	149
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

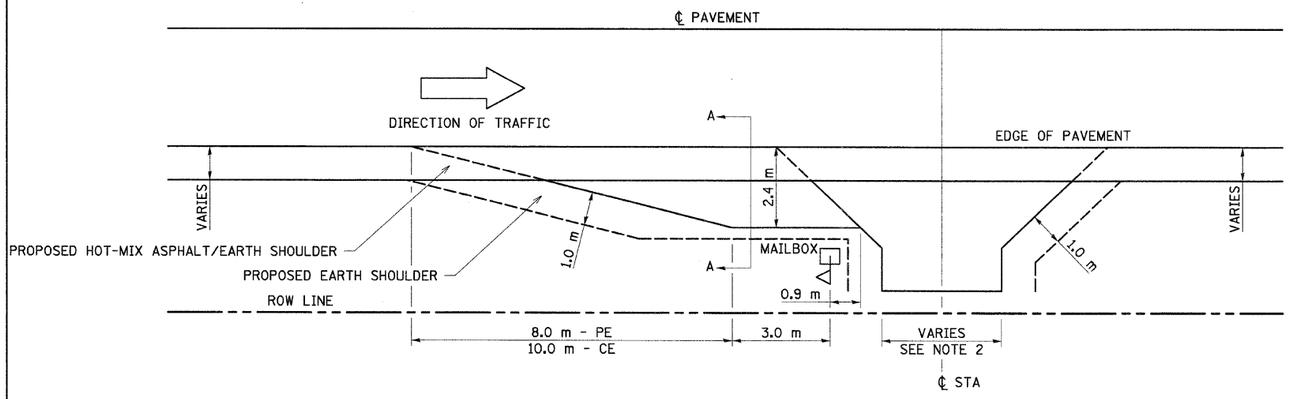
CONTRACT NO. 76624



PLAN - MAILBOX TURNOUT TRAILING ENTRANCE



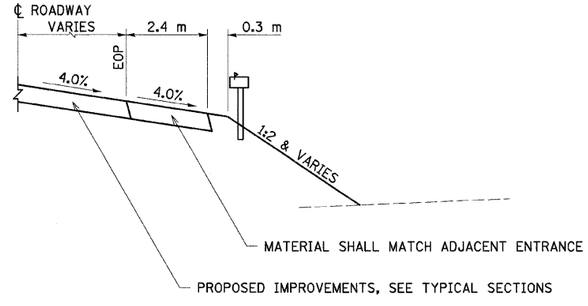
SECTION A-A NEXT TO IL 111



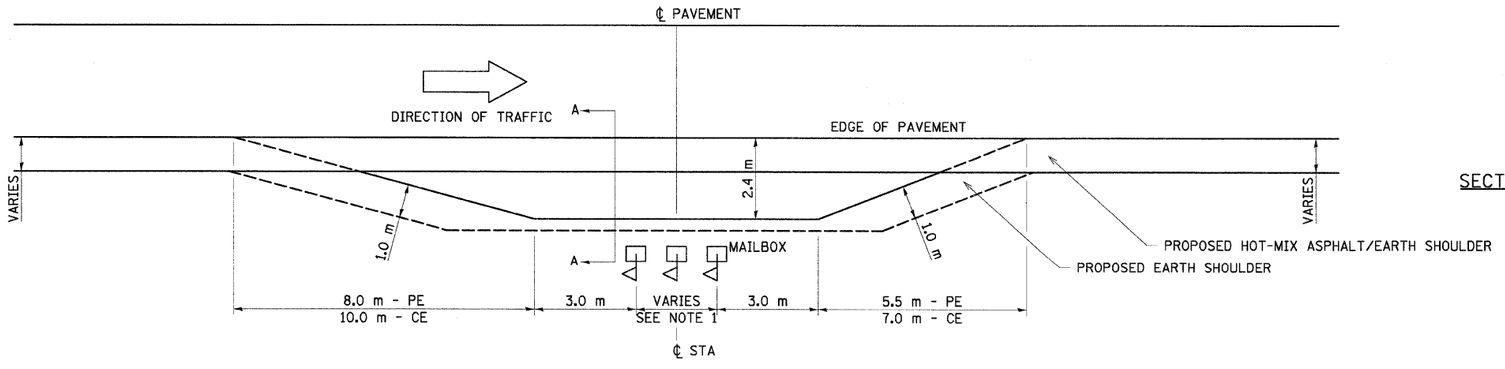
PLAN - MAILBOX TURNOUT LEADING ENTRANCE

NOTE 1: DIMENSION = (NUMBER OF MAILBOX - 1) TIMES 0.6 m

NOTE 2: FOR ENTRANCE LAYOUT DIMENSIONS, REFER TO THE SCHEDULES IN THE PLANS AND THE ENTRANCE DETAILS.



SECTION A-A NEXT TO ELIZABETH STREET



PLAN - MAILBOX TURNOUT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUT DETAILS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB

DATE CHECKED BY

12/7/2007

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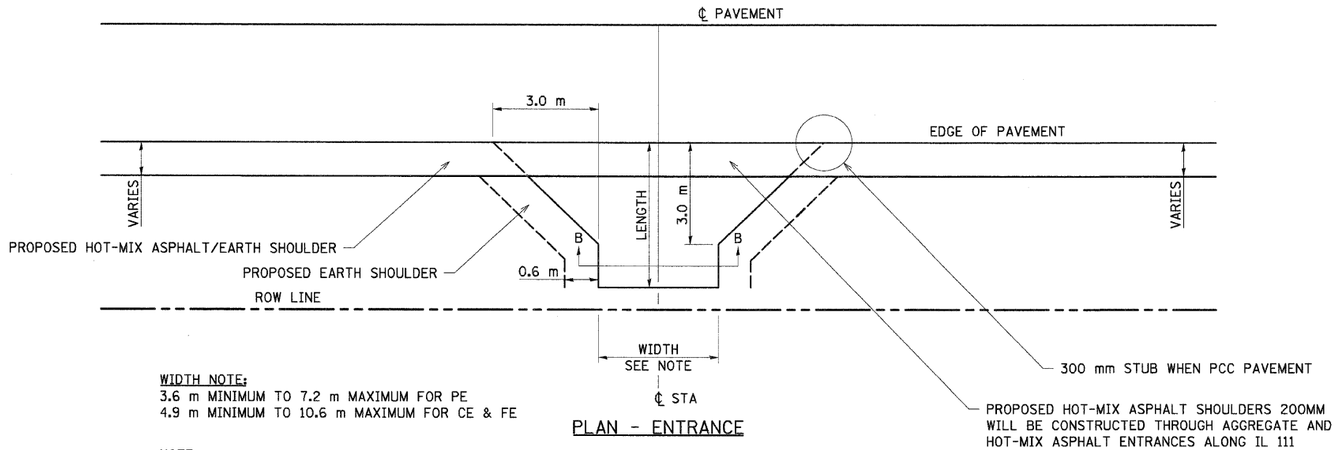
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	150
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

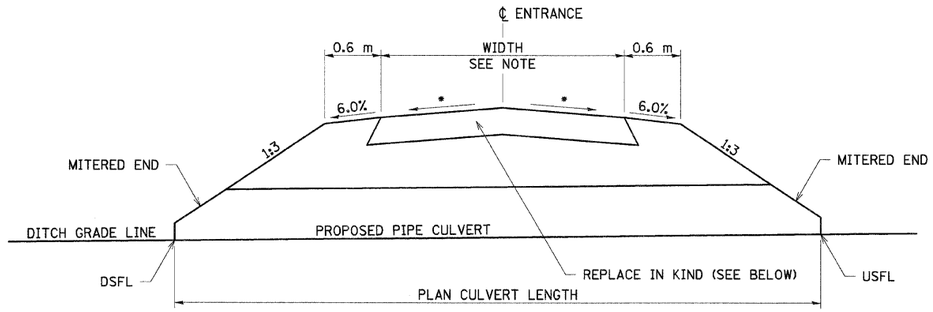
CONTRACT NO. 76624



PLAN - ENTRANCE

WIDTH NOTE:
3.6 m MINIMUM TO 7.2 m MAXIMUM FOR PE
4.9 m MINIMUM TO 10.6 m MAXIMUM FOR CE & FE

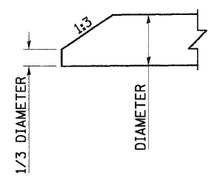
NOTE:
FOR ENTRANCES ADJACENT TO IL 111 THE ENTRANCE SLOPE SHALL MATCH THE SHOULDER SLOPE FOR 3.0 m



SECTION B-B ENTRANCE TYPICAL SECTION

* 4% FOR AGGREGATE
2% FOR HOT-MIX ASPHALT & CONCRETE

EXISTING	PROPOSED
AGGREGATE	AGGREGATE SURFACE COURSE, TYPE B 150 mm - PE & FE
EARTH	AGGREGATE SURFACE COURSE, TYPE B 150 mm - PE & FE
ASPHALT	AGGREGATE BASE COURSE, TYPE B 200 mm - PE WITH INCIDENTAL HOT-MIX ASPHALT SURFACING, 75 mm
CONCRETE	PCC DRIVEWAY PAVEMENT 150 mm - PE
ANY	PCC DRIVEWAY PAVEMENT 150 mm - CE



SECTION VIEW OF MITERED END

MITERED ENDS TO BE INCLUDED
IN THE TOTAL LENGTH OF THE PIPE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE DETAILS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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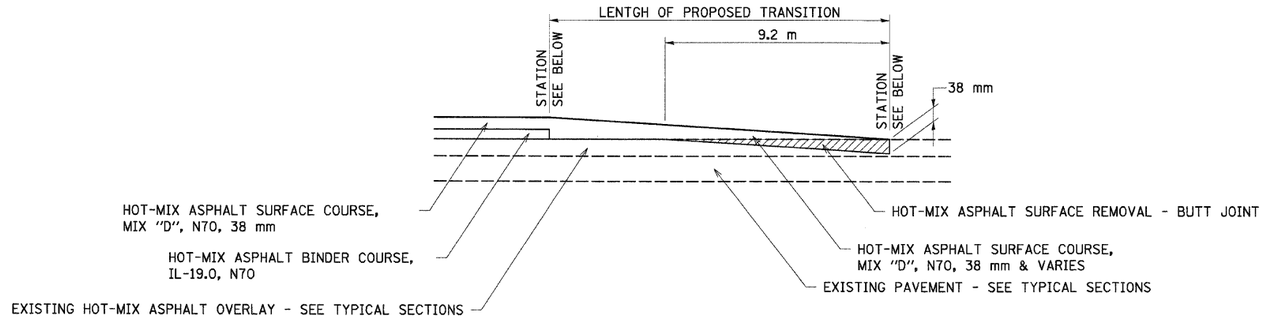
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	151
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

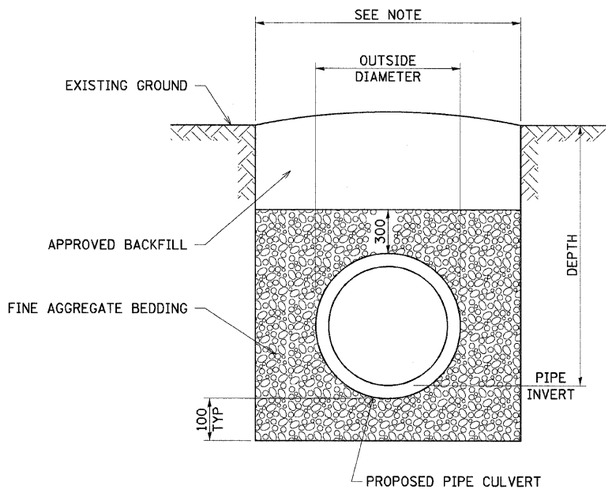
CONTRACT NO. 76624



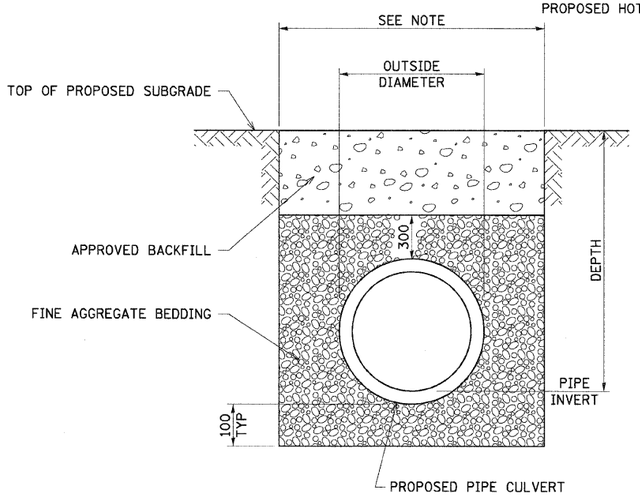
PROPOSED PAVEMENT TRANSITION DETAIL

NOT TO SCALE

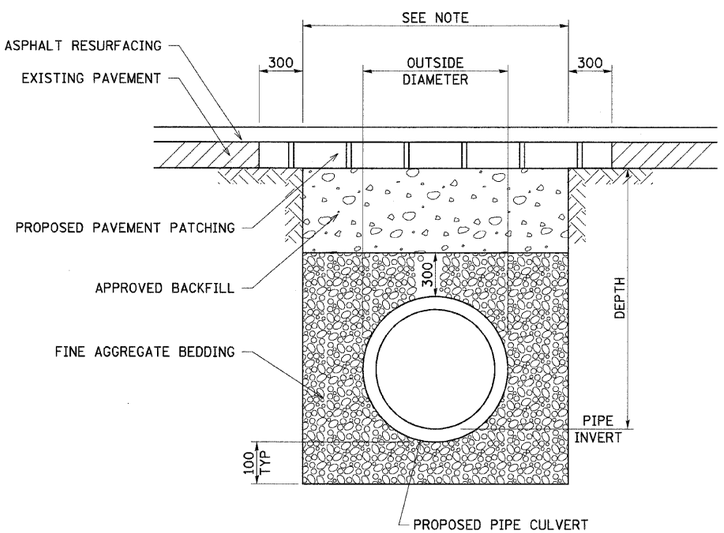
STATION 29+808.458 TO STATION 29+828.458 RT SIDE OF MEDIAN
STATION 29+813.458 TO STATION 29+828.458 LT SIDE OF MEDIAN
STATION 30+570.000 TO STATION 30+600.000



DETAIL OF TRENCH EXCAVATION AND BACKFILL UNDER EXISTING GROUND



DETAIL OF TRENCH EXCAVATION AND BACKFILL UNDER PROPOSED ROADWAY PAVEMENT AND ENTRANCES



DETAIL OF TRENCH EXCAVATION, PAVEMENT REMOVAL, PAVEMENT PATCHING, AND BACKFILL UNDER EXISTING PAVEMENT

NOTE:
WIDTH = OUTSIDE DIAMETER + 225 mm + 225 mm WHEN PIPE DIAMETER IS LESS THAN OR EQUAL TO 600 mm
WIDTH = OUTSIDE DIAMETER + 300 mm + 300 mm WHEN PIPE DIAMETER IS GREATER THAN 600 mm AND LESS THAN 1200 mm
WIDTH = OUTSIDE DIAMETER + 450 mm + 450 mm WHEN PIPE DIAMETER IS GREATER THAN 1200 mm

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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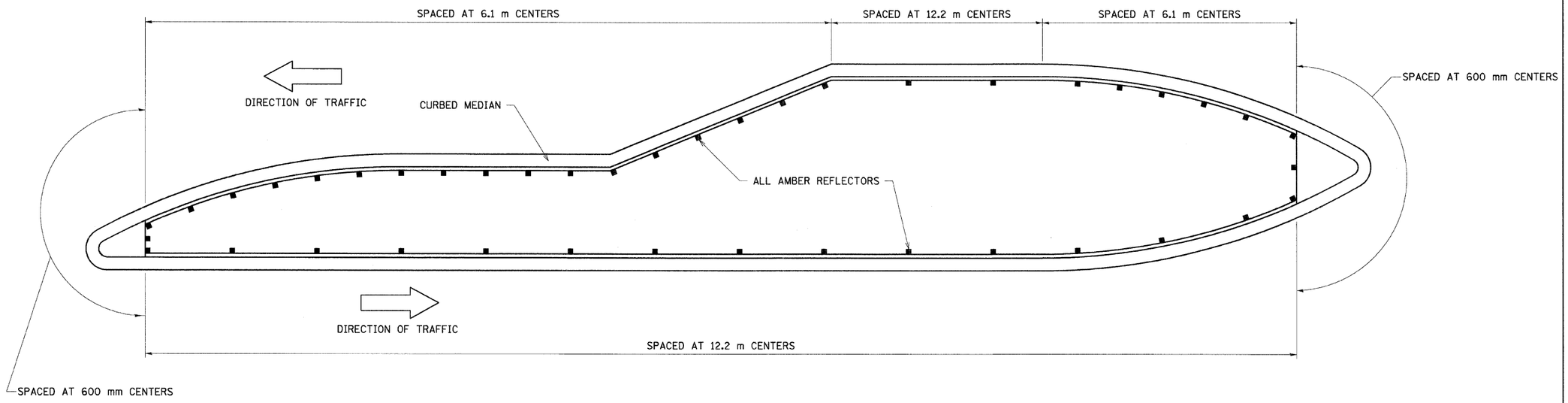
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	152
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

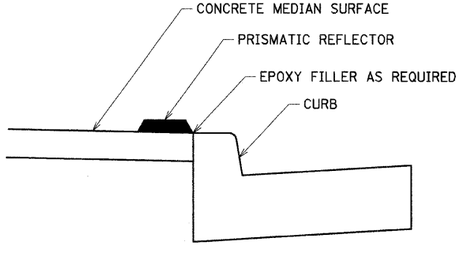
CONTRACT NO. 76624

TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON CURBS

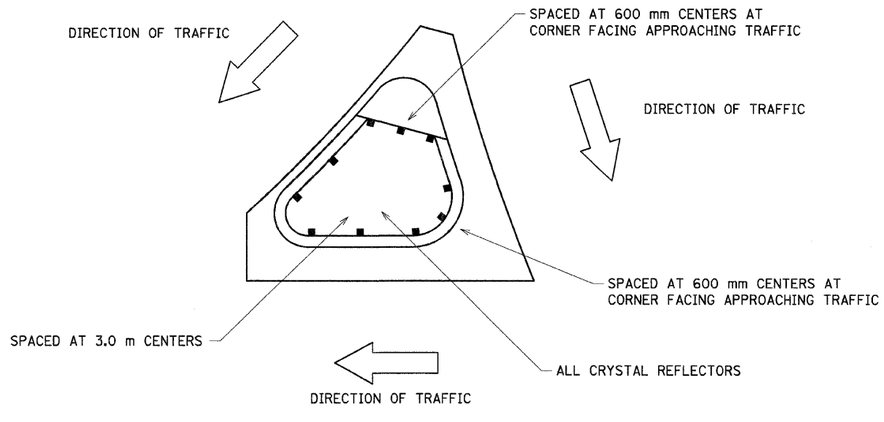


NOTES:

1) PRISMATIC REFLECTORS SHALL BE MONODIRECTIONAL AND POSITIONED SO THAT THE REFLECTION FACE IS FACING THE APPROACHING TRAFFIC.
2) PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3) PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.



SECTION VIEW



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRISMATIC REFLECTORS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY

DRAWN BY EBB

DATE CHECKED BY

12/7/2007

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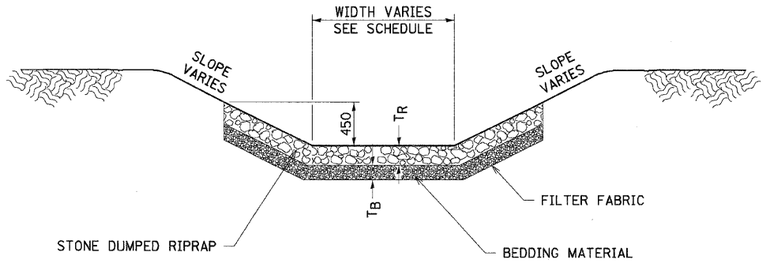
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	153
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

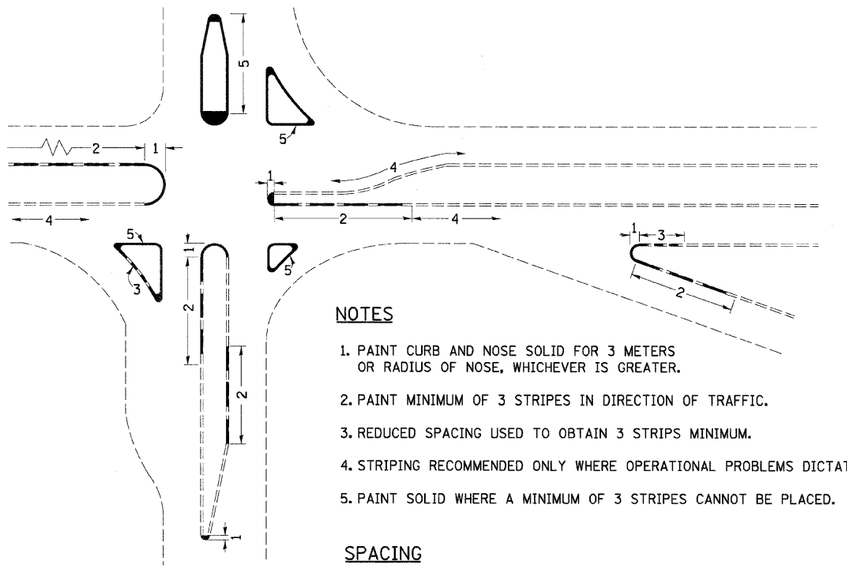
CONTRACT NO. 76624



RIPRAP CLASS	RIPRAP THICKNESS (T_R)	BEDDING THICKNESS (T_B)
A4	405 mm	150 mm

NOTE:
THE PROPOSED RIPRAP DITCH AT RIGHT STATION 30+050 SHALL HAVE A RIPRAP HEIGHT OF 1.0 m.

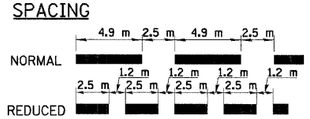
TYPICAL STONE DUMPED RIPRAP DITCH LINING
NOT TO SCALE



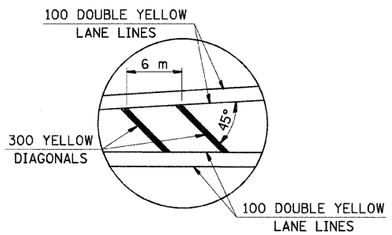
NOTES

1. PAINT CURB AND NOSE SOLID FOR 3 METERS OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPS MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

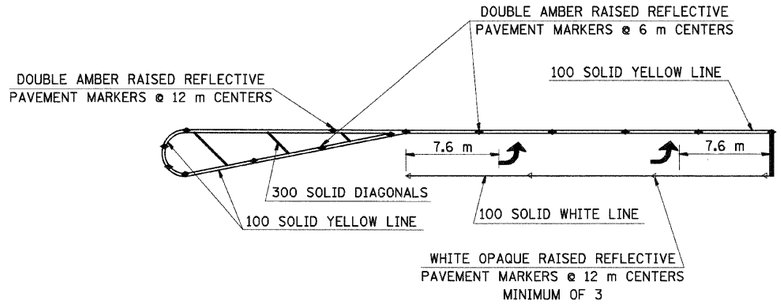
SPACING



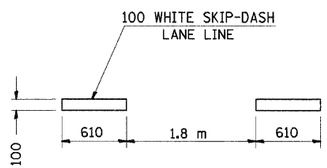
CURB MARKING



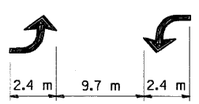
TYPICAL APPLICATION
FOR MEDIAN STRIPING



TYPICAL APPLICATION
FOR LEFT TURN LANE
WITH RAISED REFLECTIVE PAVEMENT MARKERS



TYPICAL APPLICATION FOR
WHITE SKIP-DASH LANE LINES



BI-DIRECTIONAL
TURN ARROW
@ O. C. OF
60.9 m TO 76.2 m

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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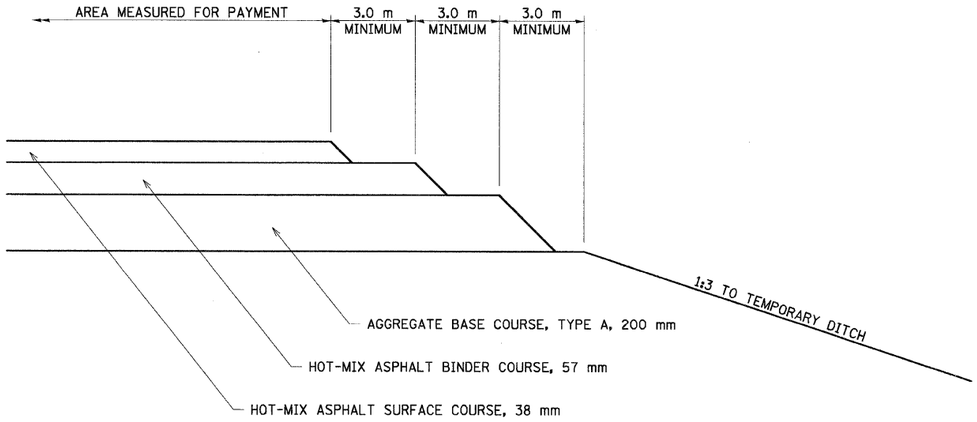
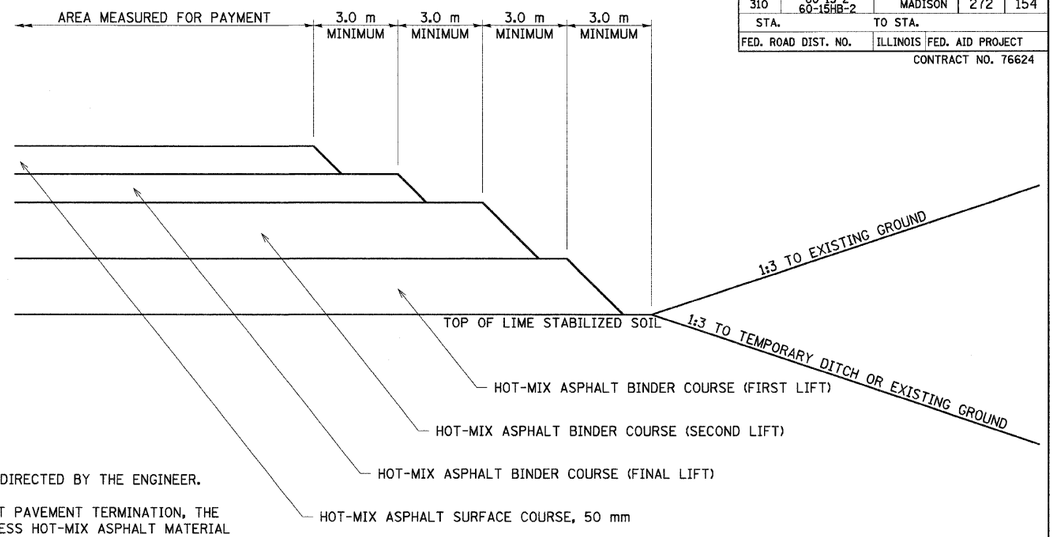
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	154
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624



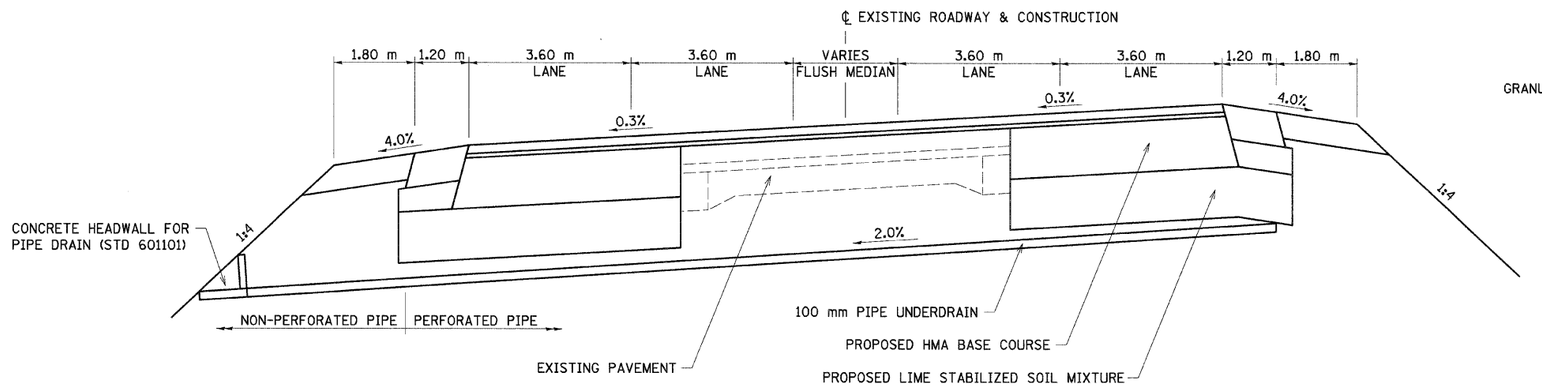
DETAIL OF PAVEMENT TERMINATION FOR ACCESS ROAD
NOT TO SCALE



DETAIL OF PAVEMENT TERMINATION FOR RAMPS
NOT TO SCALE

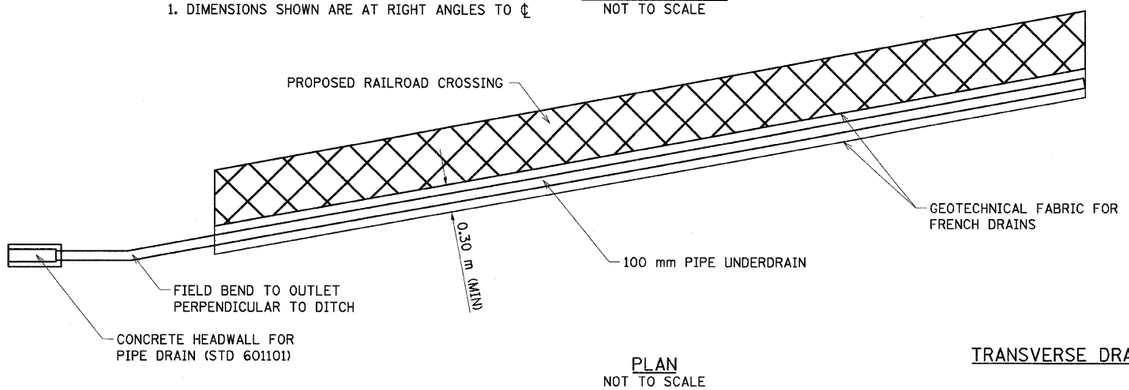
NOTES:

1. THE EXISTING TERMINATION SHALL BE CLEANED AND PRIMED AS DIRECTED BY THE ENGINEER.
2. PRIOR TO PLACING THE SURFACE COURSE AT A HOT-MIX ASPHALT PAVEMENT TERMINATION, THE CONTRACTOR SHALL SAW THE SURFACE COURSE AND REMOVE EXCESS HOT-MIX ASPHALT MATERIAL AS DIRECTED BY THE ENGINEER. THE COST OF SAWING AND REMOVING THIS MATERIAL SHALL BE INCIDENTAL TO THE HOT-MIX ASPHALT PAVEMENT OF THE TYPE AND THICKNESS SPECIFIED. THE COST OF CLEANING AND REMOVING MATERIAL AT THE EXISTING TAPER SHALL BE INCIDENTAL TO THE HOT-MIX ASPHALT PAVEMENT OF THE TYPE AND THICKNESS SPECIFIED.

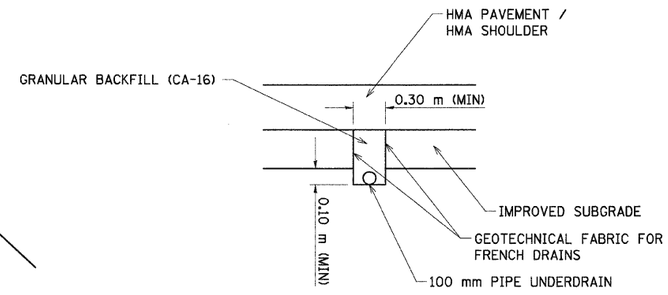


CROSS SECTION
NOT TO SCALE

NOTE:
1. DIMENSIONS SHOWN ARE AT RIGHT ANGLES TO ℄



PLAN
NOT TO SCALE



ELEVATION
NOT TO SCALE

NOTES:

TRANSVERSE DRAIN MATERIAL AND CONSTRUCTION SHALL CONFORM TO SECTION 610 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO FABRIC ENVELOPE IS REQUIRED ON PERFORATED PIPE AND THE GRANULAR BACKFILL GRADATION SHALL BE CA-16.

GEOTECHNICAL FABRIC SHALL BE NON-WOVEN NEEDLE PUNCHED MATERIAL.

ALL MATERIALS WILL NOT BE MEASURED SEPERATELY, BUT WILL BE INCLUDED IN THE COST PER EACH FOR THE PAY ITEM "TRANSVERSE DRAINS COMPLETE".

TRANSVERSE DRAIN - TANGENT PAVEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY EBB
DATE CHECKED BY

12/7/2007

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

IL 111
MONTCLAIR AVENUE

3,200' ± APPROACH PROVIDES A MAXIMUM OF 31 SEC WARNING TIME AT 60 MPH

SIGNAL #1 & #2 LOCATION:

EXISTING FLASHING-MAST MOUNTED SIGNALS [TBR]

6'-0" ±	BETWEEN CANT & GATE BASES, MEASURED PARALLEL TO ROAD
5'-0" ±	GATE FROM BACK EDGE OF CURB
5'-0" ±	CANT FROM BACK EDGE OF CURB, ~~MEASURED PERPENDICULAR~~ TO ROAD FROM CENTER OF SIGNAL POLE TO THE BACK EDGE OF THE CURB
15'-0" ±	GATE FROM NEAR RAIL AT TIP
23'-0" ±	GATE FROM NEAR RAIL AT BASE
22'-0" ±	CANT FROM NEAR RAIL AT TIP
29'-0" ±	CANT FROM NEAR RAIL AT BASE MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE NEAREST EDGE OF RAIL

MUTCD MINIMUM RESTRICTIONS:
4'-3" MIN FROM FRONT EDGE OF CURB
12'-0" MIN FROM CENTERLINE OF RAIL
GATE ARM TO BE PERPENDICULAR TO ROAD

APPROXIMATE STREET ADDRESS

7050 IL HWY 111

GRADE CROSSING PREDICTORS:

EXISTING <GCP 3000D2> MF 114HZ IF 5900HZ [TBR]
PROPOSED <GCP 4000D2> MF 114HZ IF 4000HZ

CROSSING SURFACE INFO:

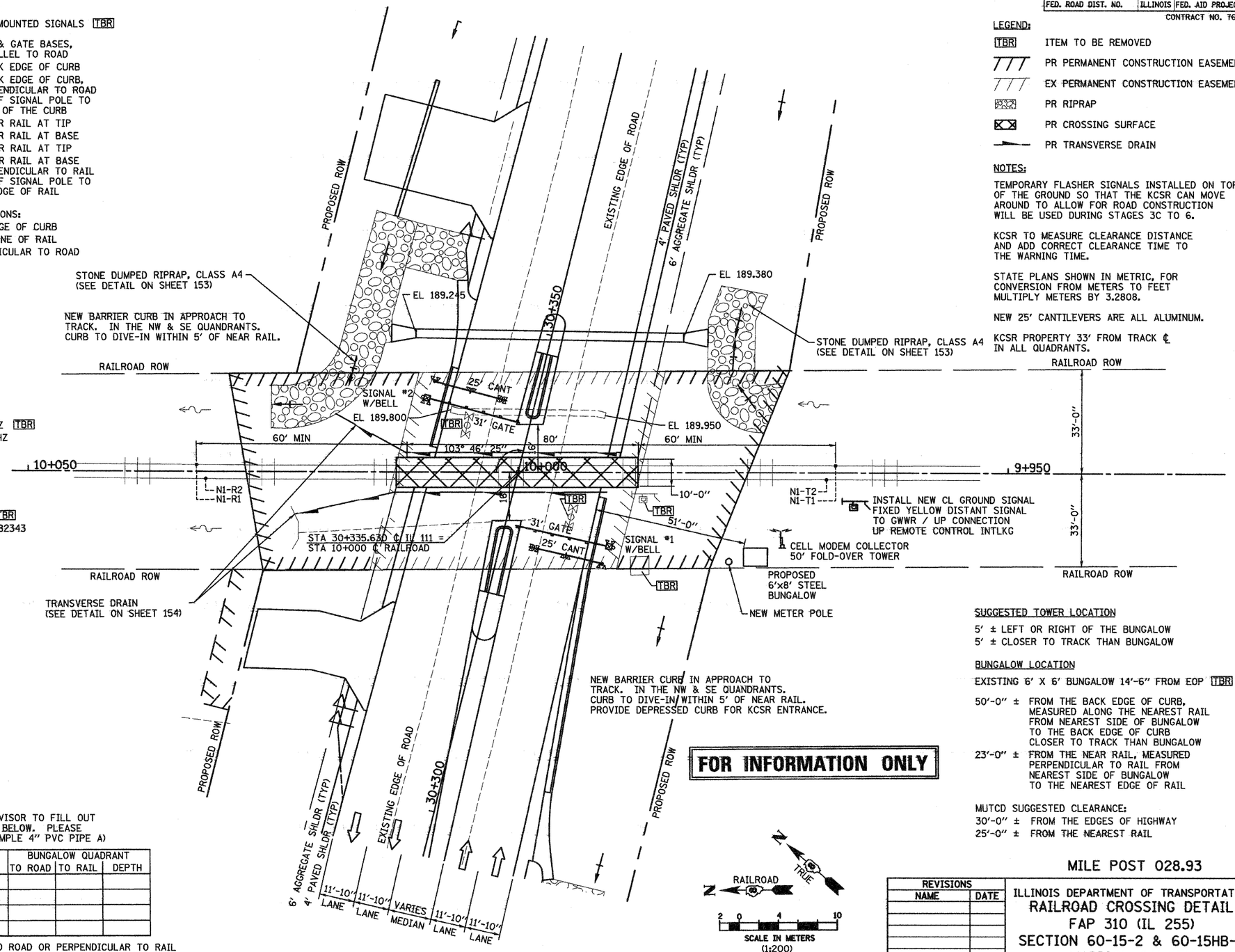
EXISTING 30' TIMBER & ASPHALT SURFACE [TBR]
PROPOSED 80' CONCRETE SURFACE ASSET #982343

MAXIMUM SPEED REGULATIONS

MP 056.0 TO MP 028.0 ...40 MPH
MP 28.9 (SWD ONLY) ...25 MPH

SPEED RESTRICTIONS

SW MP 28.0 INTLKG ...10+* MPH
+ INDICATES ENGINE ONLY
* INDICATES SWD MOVEMENT



LEGEND:

[TBR]	ITEM TO BE REMOVED
///	PR PERMANENT CONSTRUCTION EASEMENT
///	EX ~~PERMANENT~~ CONSTRUCTION EASEMENT
	PR RIPRAP
	PR CROSSING SURFACE
	PR TRANSVERSE DRAIN

NOTES:

TEMPORARY FLASHER SIGNALS INSTALLED ON TOP OF THE GROUND SO THAT THE KCSR CAN MOVE AROUND TO ALLOW FOR ROAD CONSTRUCTION WILL BE USED DURING STAGES 3C TO 6.

KCSR TO MEASURE CLEARANCE DISTANCE AND ADD CORRECT CLEARANCE TIME TO THE WARNING TIME.

STATE PLANS SHOWN IN METRIC, FOR CONVERSION FROM METERS TO FEET MULTIPLY METERS BY 3.2808.

NEW 25' CANTILEVERS ARE ALL ALUMINUM.

KCSR PROPERTY 33' FROM TRACK ℄ IN ALL QUADRANTS.

SUGGESTED TOWER LOCATION

5' ± LEFT OR RIGHT OF THE BUNGALOW
5' ± CLOSER TO TRACK THAN BUNGALOW

BUNGALOW LOCATION

EXISTING 6' X 6' BUNGALOW 14'-6" FROM EOP [TBR]

50'-0" ±	FROM THE BACK EDGE OF CURB, MEASURED ALONG THE NEAREST RAIL FROM NEAREST SIDE OF BUNGALOW TO THE BACK EDGE OF CURB CLOSER TO TRACK THAN BUNGALOW
23'-0" ±	FROM THE NEAR RAIL, MEASURED PERPENDICULAR TO RAIL FROM NEAREST SIDE OF BUNGALOW TO THE NEAREST EDGE OF RAIL

MUTCD SUGGESTED CLEARANCE:
30'-0" ± FROM THE EDGES OF HIGHWAY
25'-0" ± FROM THE NEAREST RAIL

CONSTRUCTION SUPERVISOR OR SIGNAL SUPERVISOR TO FILL OUT PIPE OR CONDUIT LOCATION CHART PROVIDED BELOW. PLEASE LABEL PIPES BT AN ALPHA DESIGNATION (EXAMPLE 4" PVC PIPE A)

UG SIGNAL CABLE PIPE LOCATION	DESTINATION QUADRANT TO ROAD	TO RAIL	DEPTH	BUNGALOW QUADRANT TO ROAD	TO RAIL	DEPTH
4" PVC PIPE A						
4" PVC PIPE B						
4" PVC PIPE C						
4" PVC PIPE D						

ALL DIMENSIONS MEASURED PERPENDICULAR TO ROAD OR PERPENDICULAR TO RAIL

MILE POST 028.93

REVISION BLOCK	FLASHERS IN SERVICE 1978	6' X 6' BUNGALOW WITH GCP 3000D2 INSTALLED IN SERVICE 03/04/98	6' X 8' BUNGALOW & NEW CANTILEVERS & GATES IN SERVICE

ASSET #982342

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAILROAD CROSSING DETAIL
FAP 310 (IL 255)
SECTION 60-15-2 & 60-15HB-2
MADISON COUNTY
DRAWN BY BGJ
DATE CHECKED BY

5/13/2008

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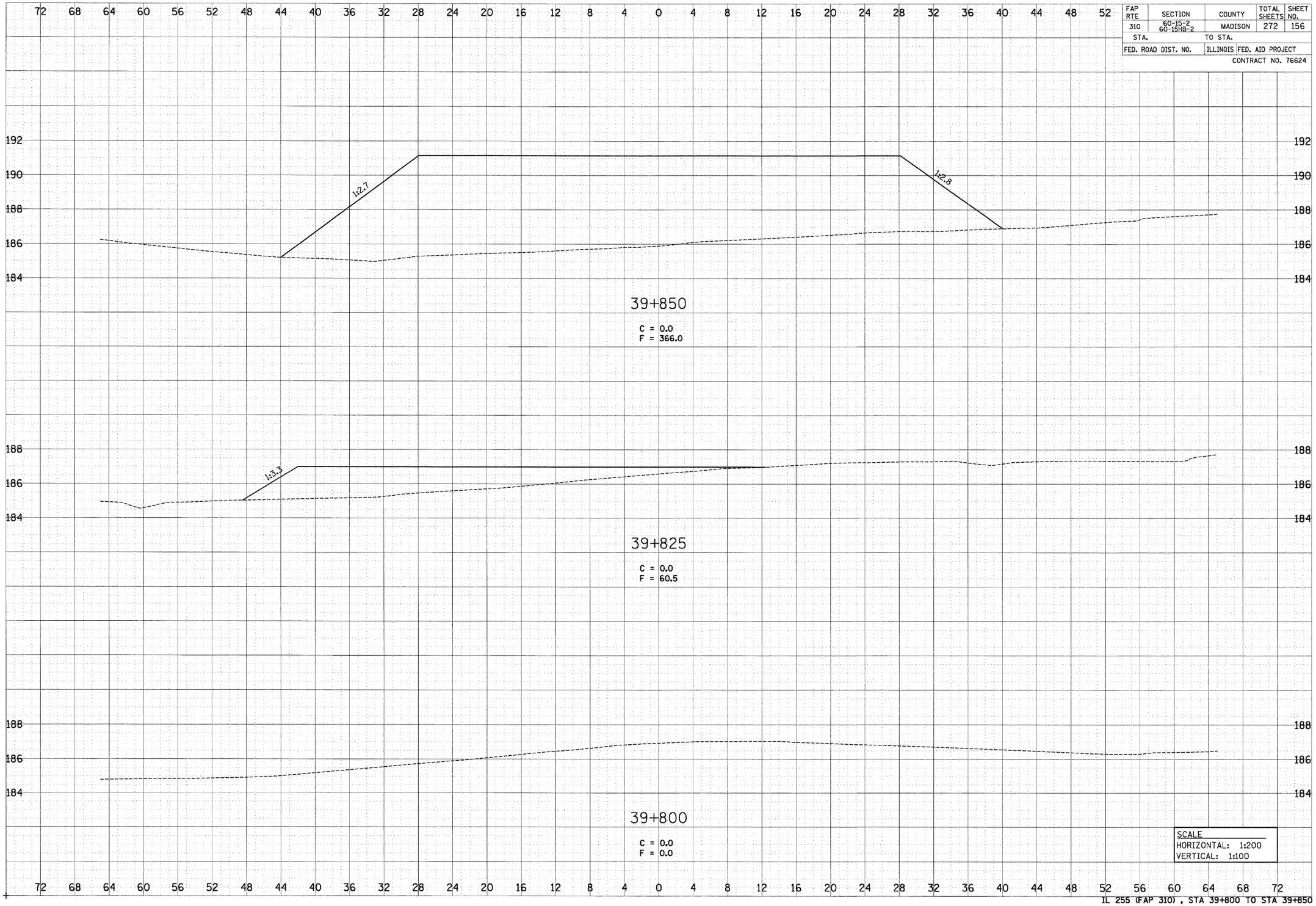
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	156
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



IL 255 (FAP 310) , STA 39+800 TO STA 39+850

bgj

12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	157
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	AREAS	AREAS CHECKED	BY	DATE
NO.							

ORIGINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	AREAS	AREAS CHECKED	BY	DATE
NO.							

39+925

C = 0.0
F = 0.0

39+900

C = 0.0
F = 26.6

39+875

C = 0.0
F = 466.9

1:2.2

1:2.2

SEE GRADING PLAN

SCALE
HORIZONTAL: 1:200
VERTICAL: 1:100

IL 255 (FAP 310) , STA 39+875 TO STA 39+925

12/7/2007

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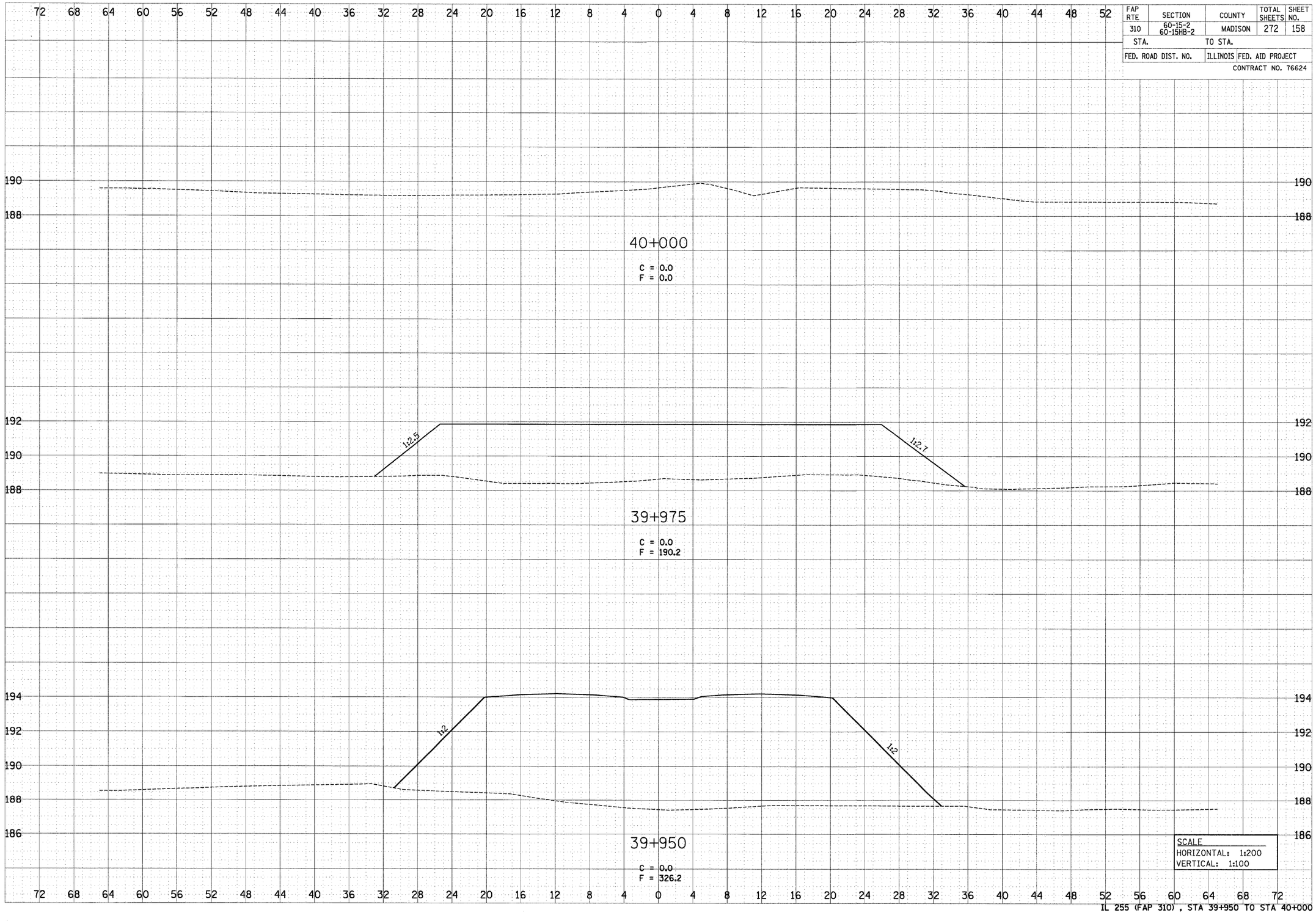
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	158
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	PLANIMETER AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	PLANIMETER AREAS	
	AREAS CHECKED	



IL 255 (FAP 310) , STA 39+950 TO STA 40+000

12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	159
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	TEMPLATE
NO.	AREAS
	AREAS CHECKED

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	TEMPLATE
NO.	AREAS
	AREAS CHECKED

BEGIN SP DT LT
STA 29+685
ELEV 186.100
GRADE = +0.03%

PR ROW
29.649 m
EX ROW

EXISTING 457 mm PIPE

EX ROW

GAS
WATER

29+682.0
C = 0.0
F = 0.0

PR ROW
28.956 m
EX ROW

EX ROW

FO
GAS
WATER

29+675
C = 0.0
F = 0.0

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 29+675 TO STA 29+682.0

bgj
12/7/2007
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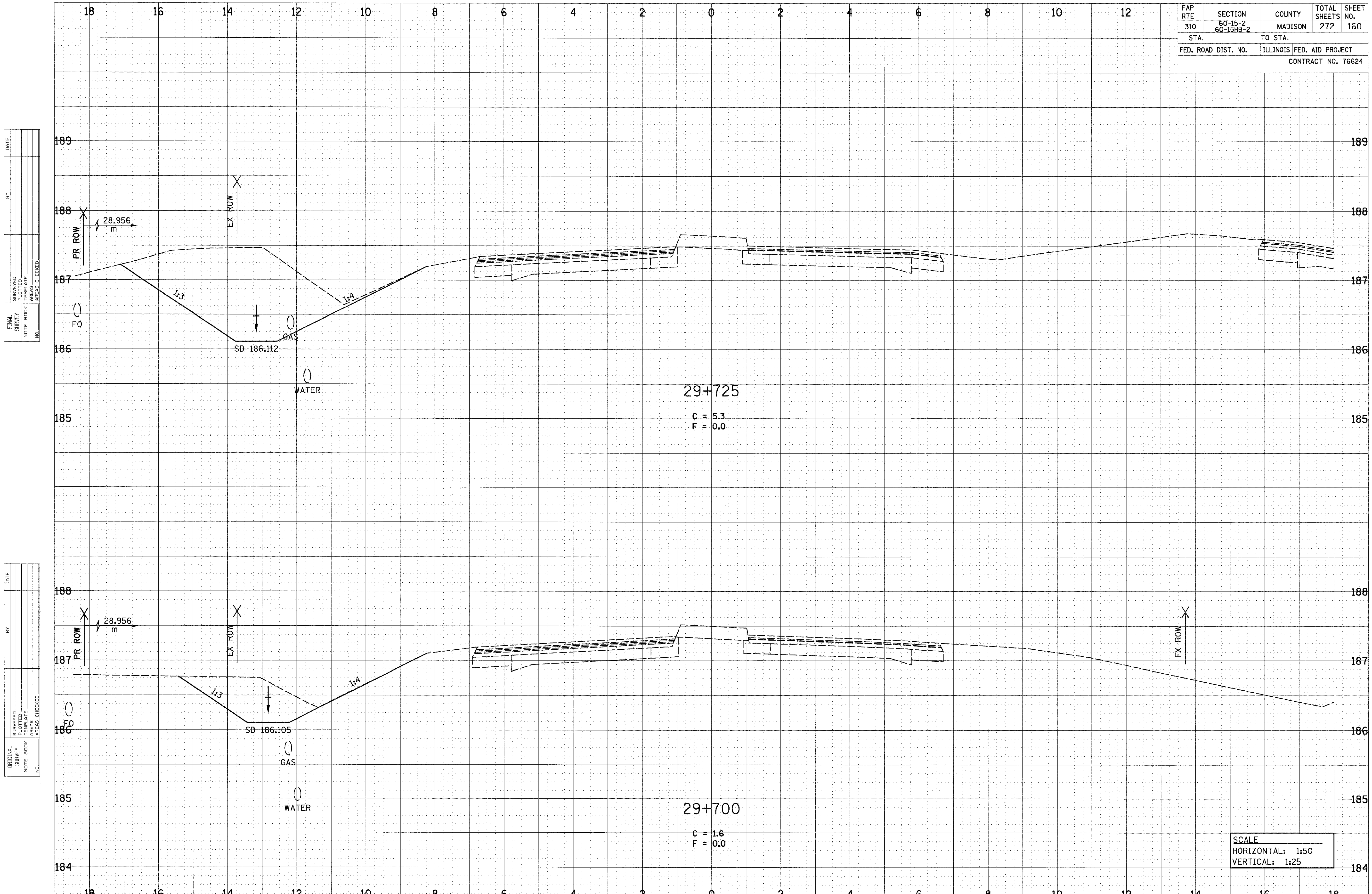
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	160
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 76624		



IL 111, STA 29+700 TO STA 29+725

bgJ 12/7/2007 p:\00files\000024\dil11\crosssections\xsec015c.dgn

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	161
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

29+775

C = 12.0
F = 0.0

29+750

C = 8.5
F = 0.0

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 29+750 TO STA 29+775

12/7/2007

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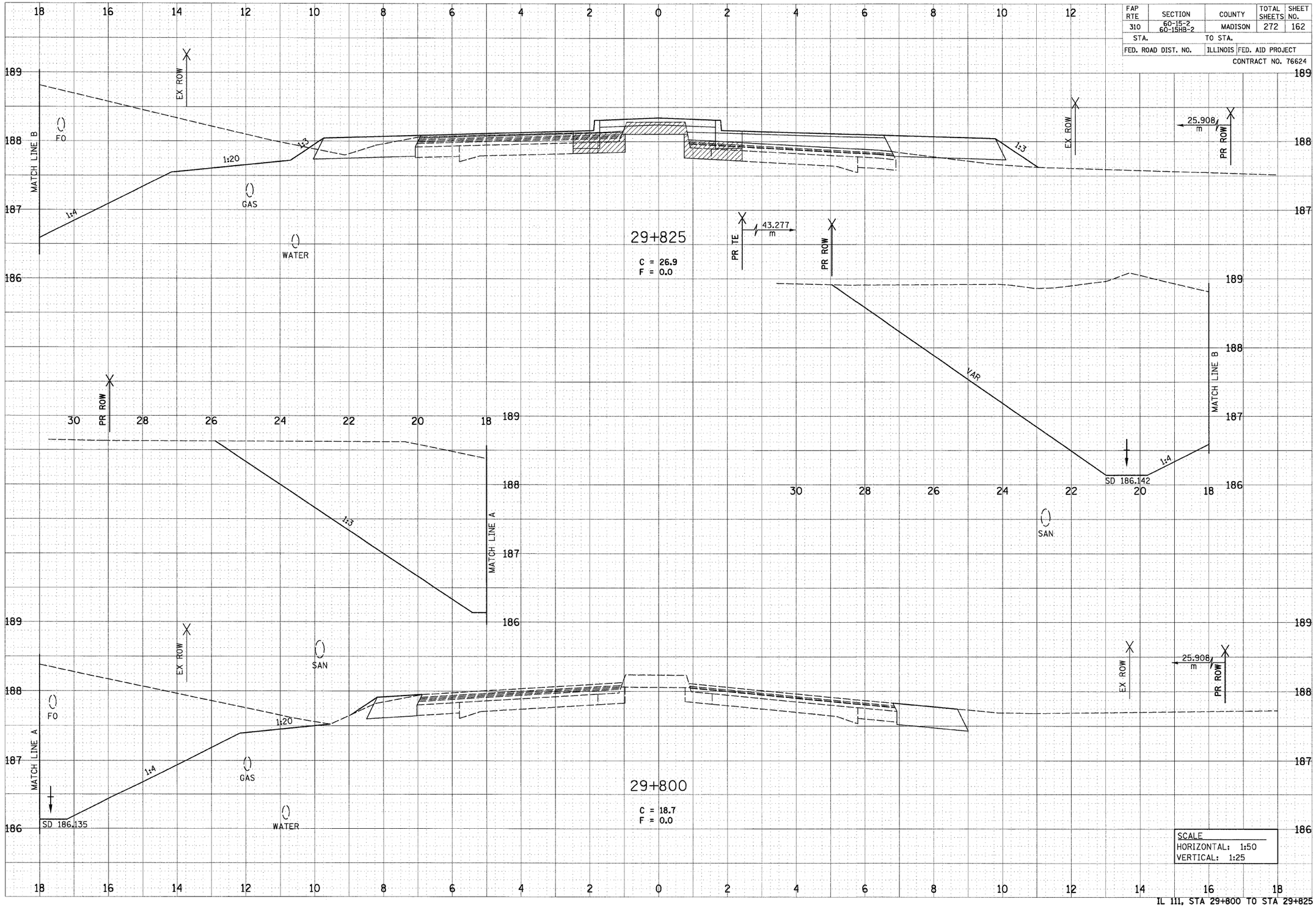
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	162
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 29+800 TO STA 29+825

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

12/7/2007

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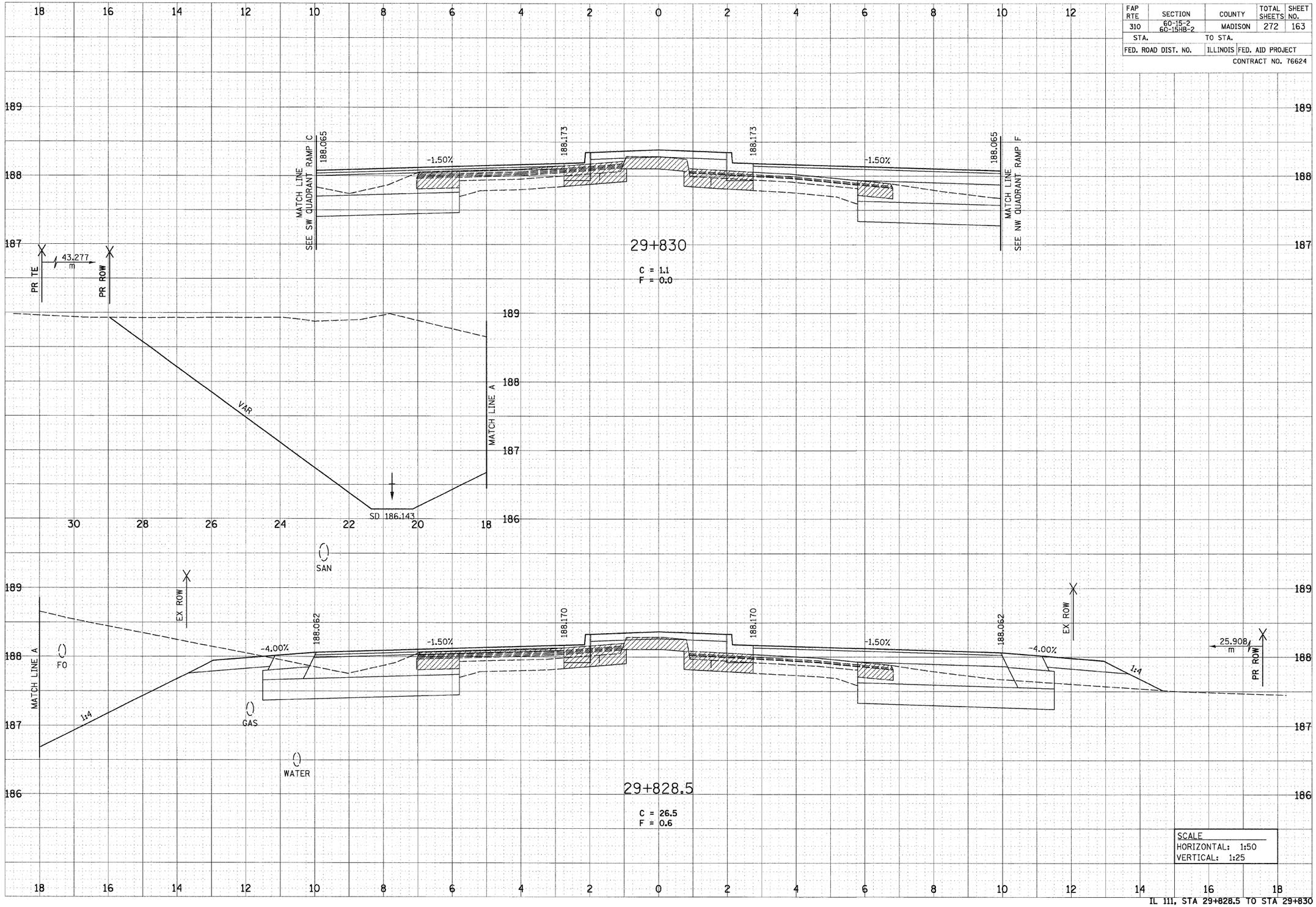
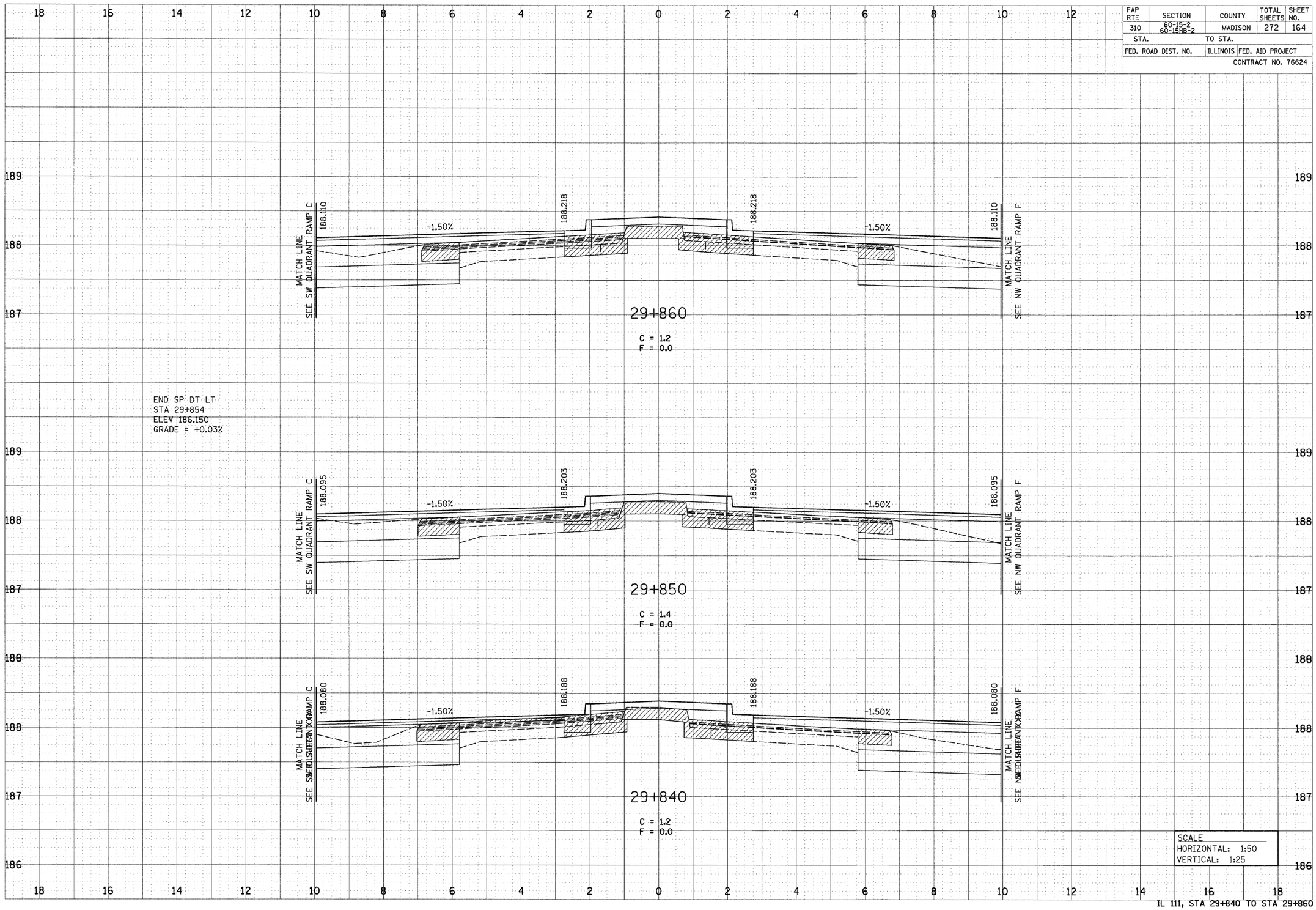
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	163
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	164
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 29+840 TO STA 29+860

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	165
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

BEGIN SP DT LT
STA 29+878, 29.0 m LT
ELEV 186.250
GRADE = +0.50%

SD 186.260

1:3

1:50

MATCH LINE A

SAN

EX ROW

-4.00%

188.110

-1.50%

188.218

188.272

188.218

-1.50%

188.110

-4.00%

EX ROW

1:4

1:4

MATCH LINE A

FO

GAS

WATER

29+880

C = 39.4
F = 2.0

MATCH LINE
SEE SE QUADRANT RAMP C

188.117

-1.50%

188.225

188.257

188.225

-1.50%

188.117

MATCH LINE
SEE NE QUADRANT RAMP F

29+870

C = 0.9
F = 0.1

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 29+870 TO STA 29+880

12/7/2007

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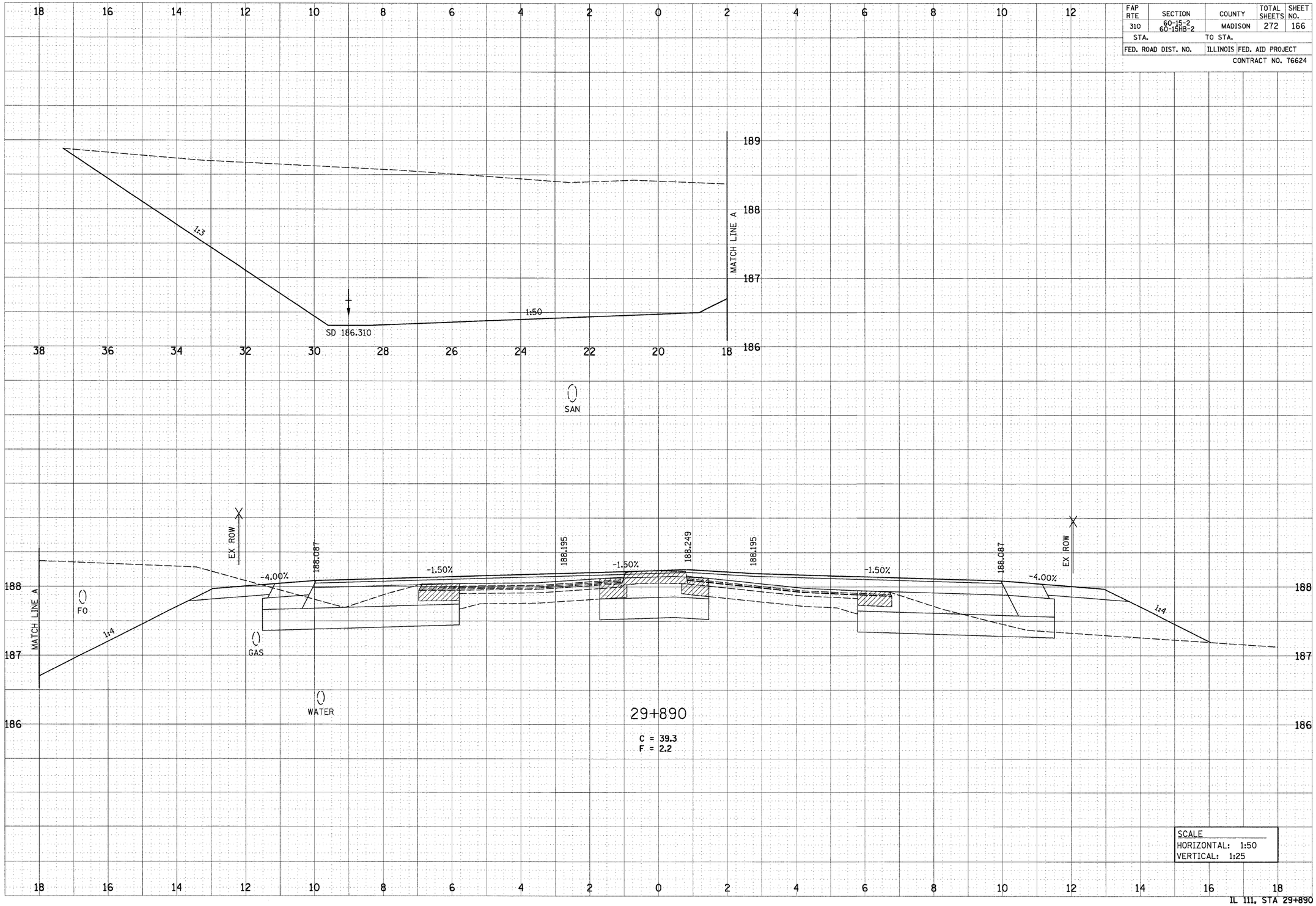
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	166
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY
NOTE BOOK
NO.

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

ORIGINAL SURVEY
NOTE BOOK
NO.



12/7/2007

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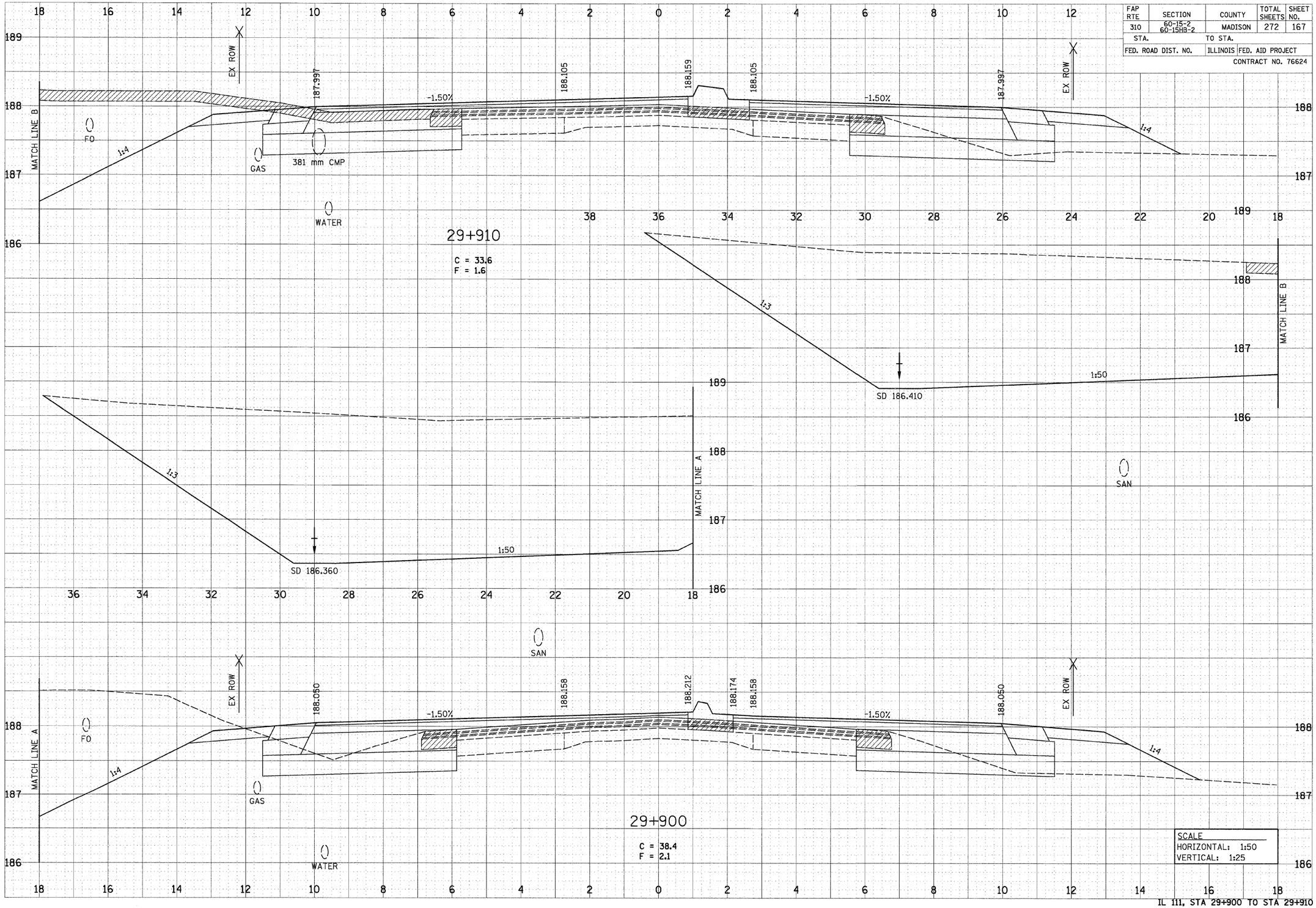
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	167
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 29+900 TO STA 29+910

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TOPO PLT		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TOPO PLT		
	AREAS		
NO.	AREAS CHECKED		

bgj

12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	168
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

29+930

C = 32.6
F = 1.8

29+920

C = 33.7
F = 0.9

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 29+920 TO STA 29+930

12/7/2007

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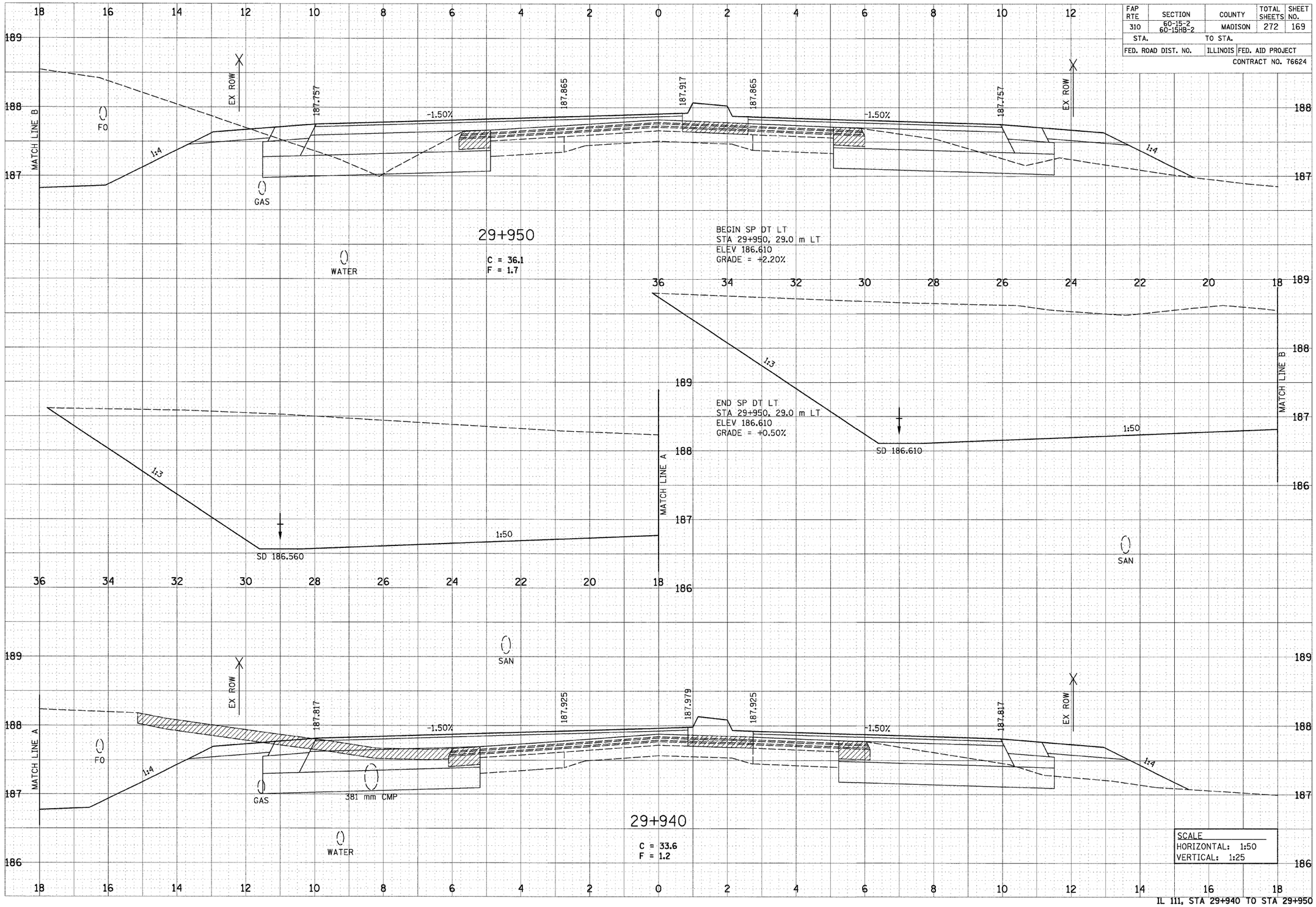
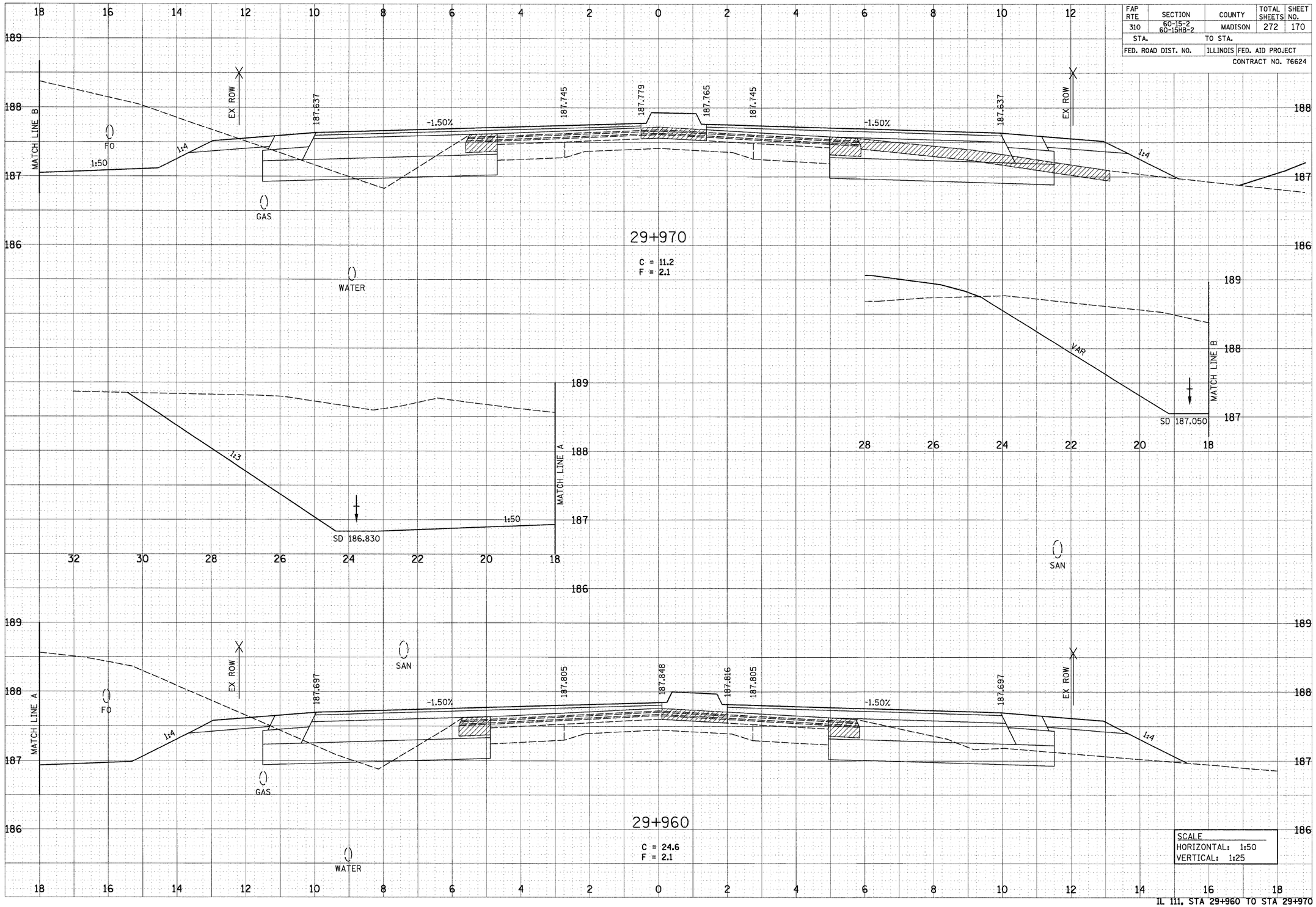
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	169
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMP. SITE	
NO.	AREAS	
	AREAS CHECKED	



IL 111, STA 29+940 TO STA 29+950

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	170
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		



IL 111, STA 29+960 TO STA 29+970

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

12/7/2007

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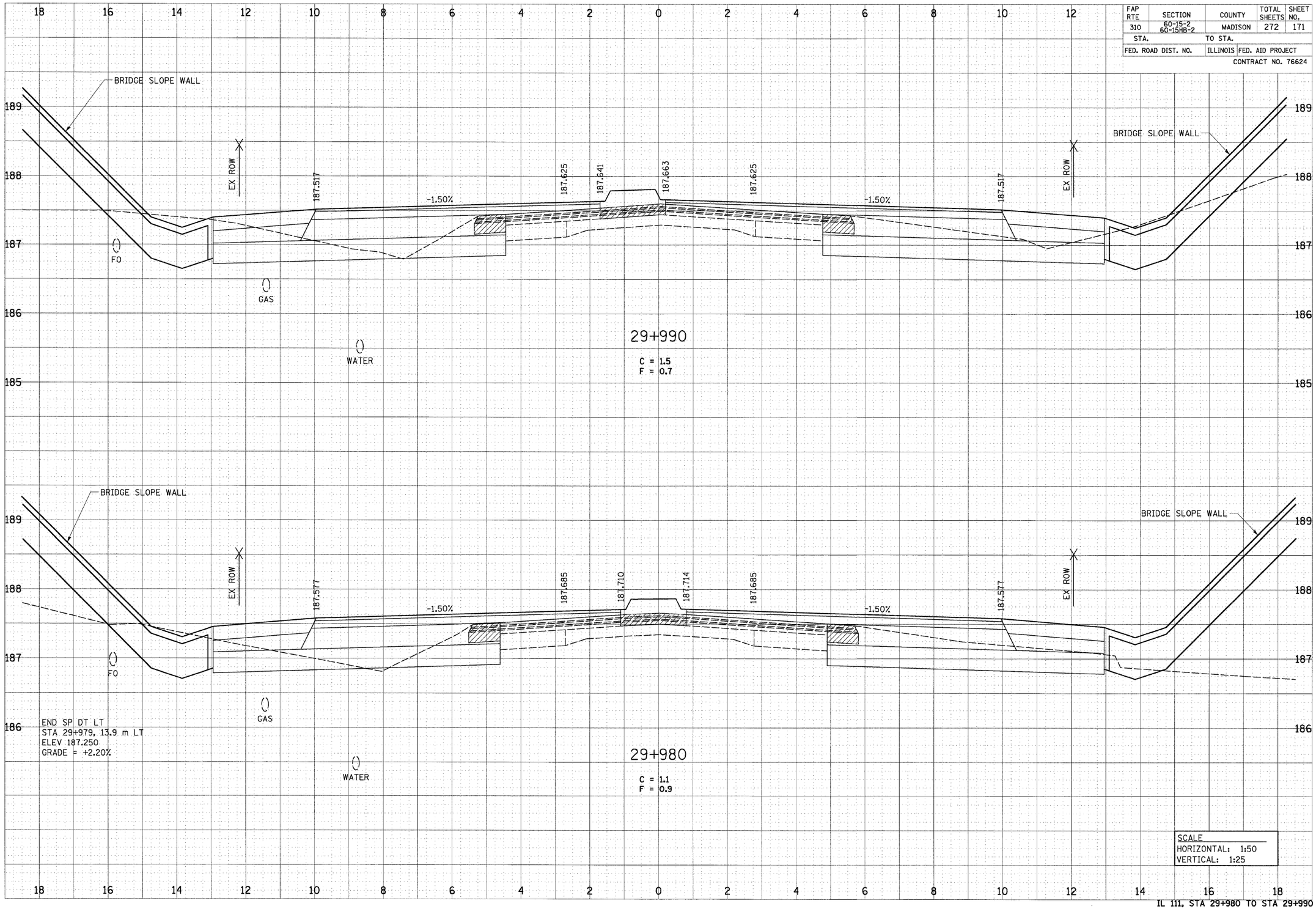
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	171
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		



IL 111, STA 29+980 TO STA 29+990

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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12/7/2007

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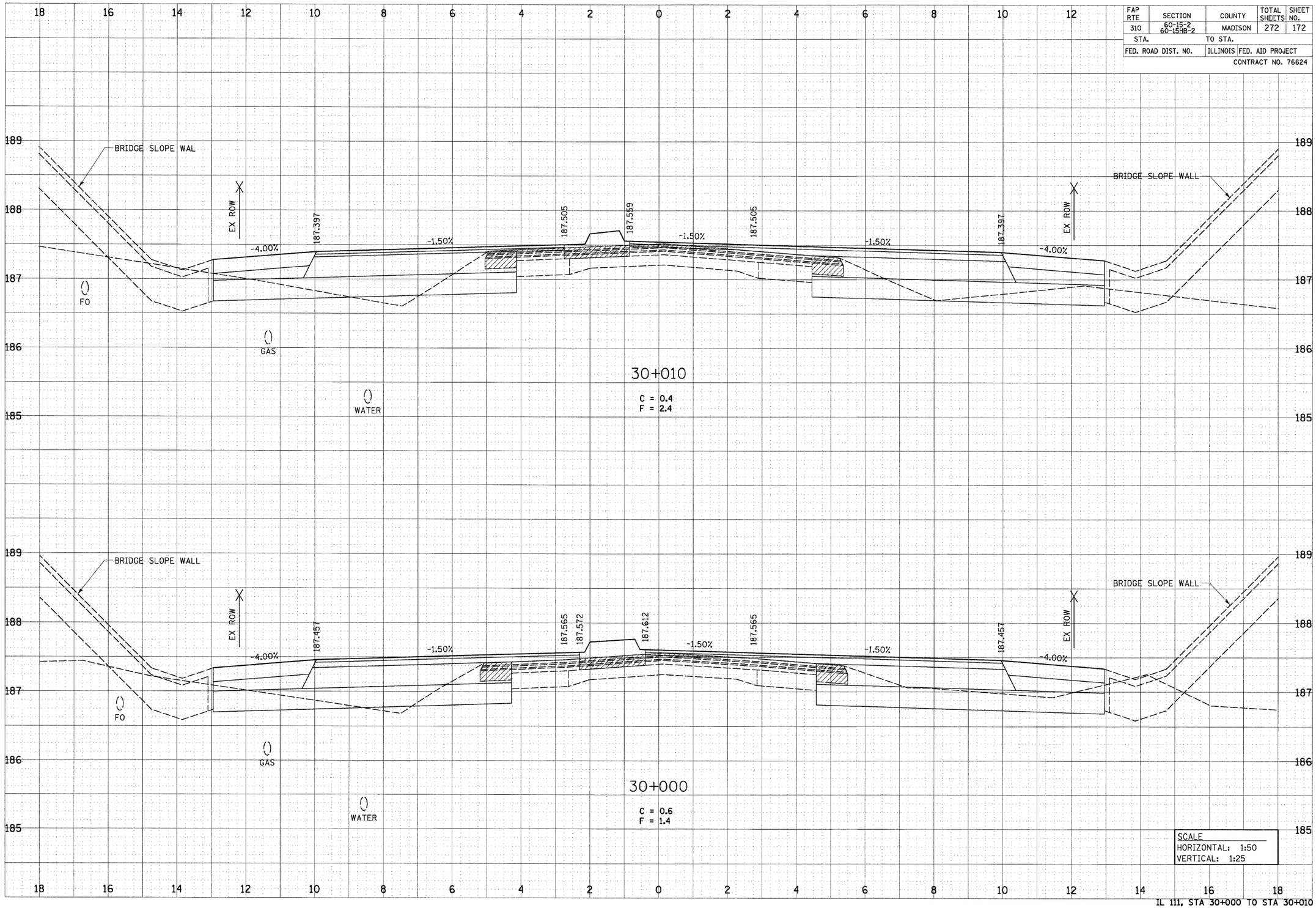
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	172
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	DRAWN	
	TRACED	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	DRAWN	
	TRACED	
	AREAS	
	AREAS CHECKED	

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+000 TO STA 30+010

bgj

12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	173
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

FINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

ORIGINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12

22 20 18

VAR

FO

MATCH LINE A

SAN

EX ROW

MATCH LINE A

SD 186.545

1:4

-4.00%

187.277

-1.50%

187.385

187.439

-1.50%

187.385

-1.50%

187.277

-4.00%

EX ROW

1:4

GAS

WATER

30+030

C = 4.5
F = 3.3

BEGIN SP DT LT
STA 30+021
ELEV 186.950
GRADE = -4.50%

BRIDGE SLOPE WALL

EX ROW

-4.00%

187.337

-1.50%

187.445

187.499

-1.50%

187.445

-1.50%

187.337

-4.00%

EX ROW

BRIDGE SLOPE WALL

FO

GAS

WATER

30+020

C = 1.2
F = 1.2

188 187 186 185 189

SCALE	
HORIZONTAL:	1:50
VERTICAL:	1:25

IL 111, STA 30+020 TO STA 30+030

12/7/2007

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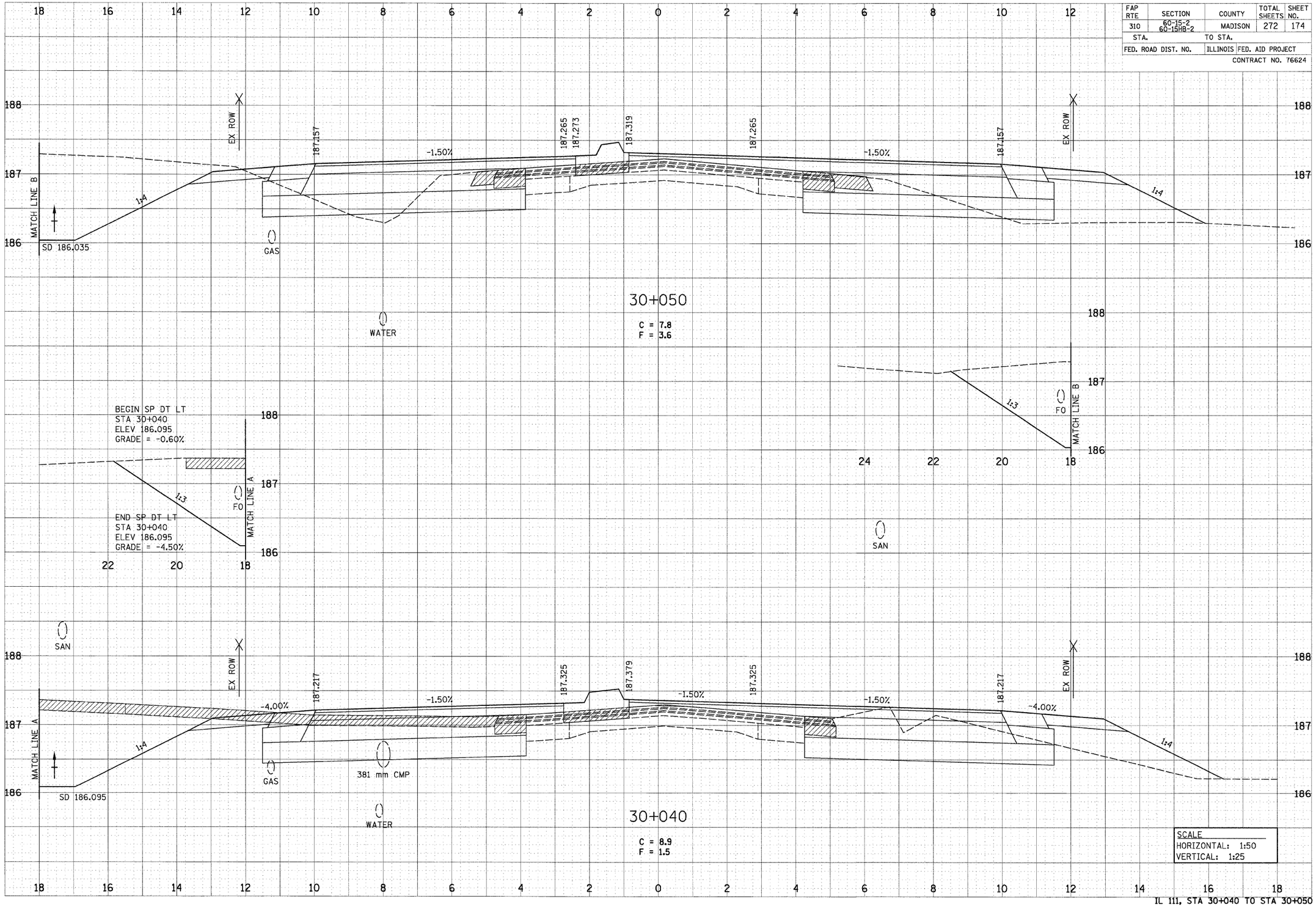
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	174
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

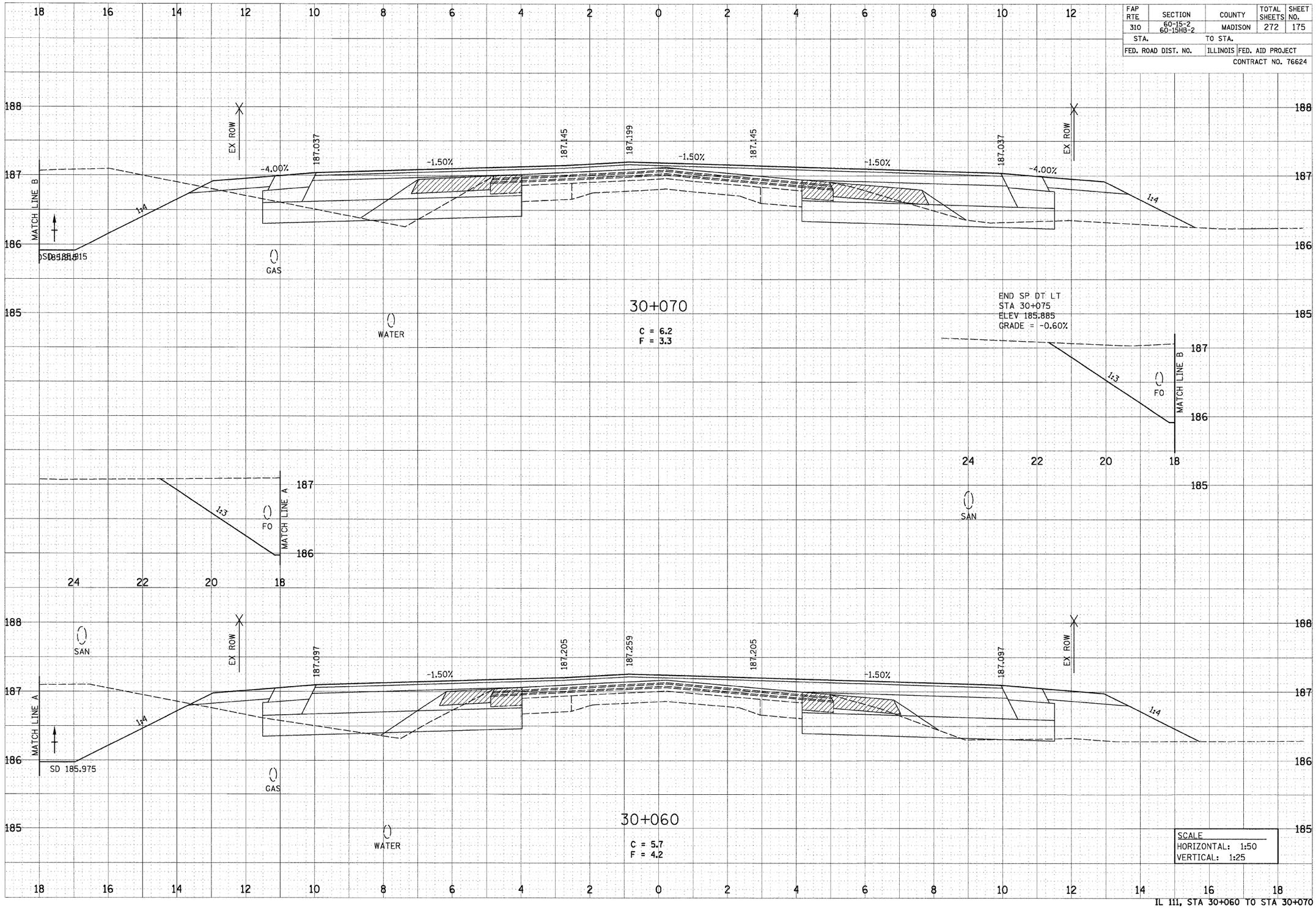
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



IL 111, STA 30+040 TO STA 30+050

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	175
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		



IL 111, STA 30+060 TO STA 30+070

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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12/7/2007

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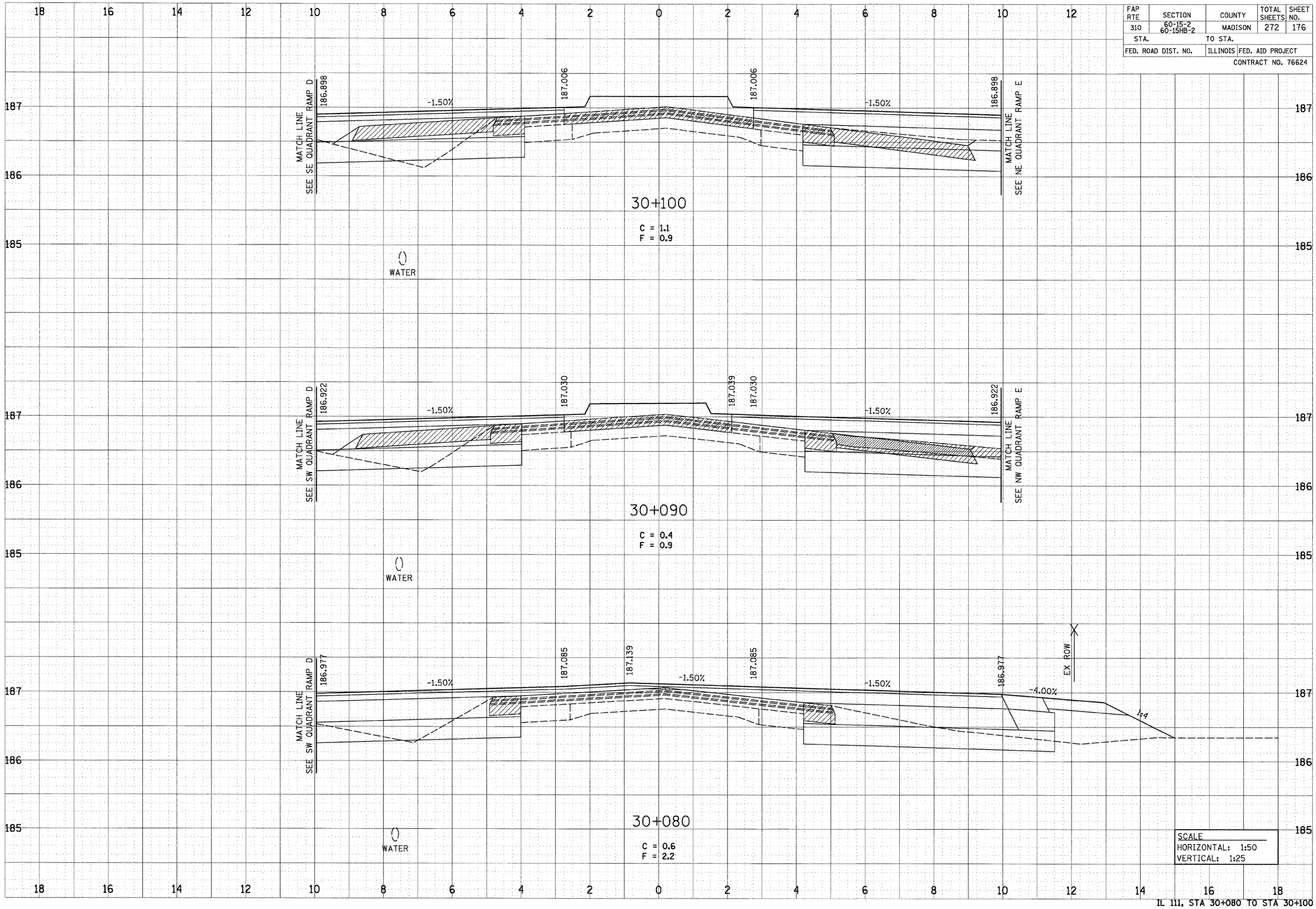
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	176
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		



IL 111, STA 30+080 TO STA 30+100

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
MT.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
MT.		

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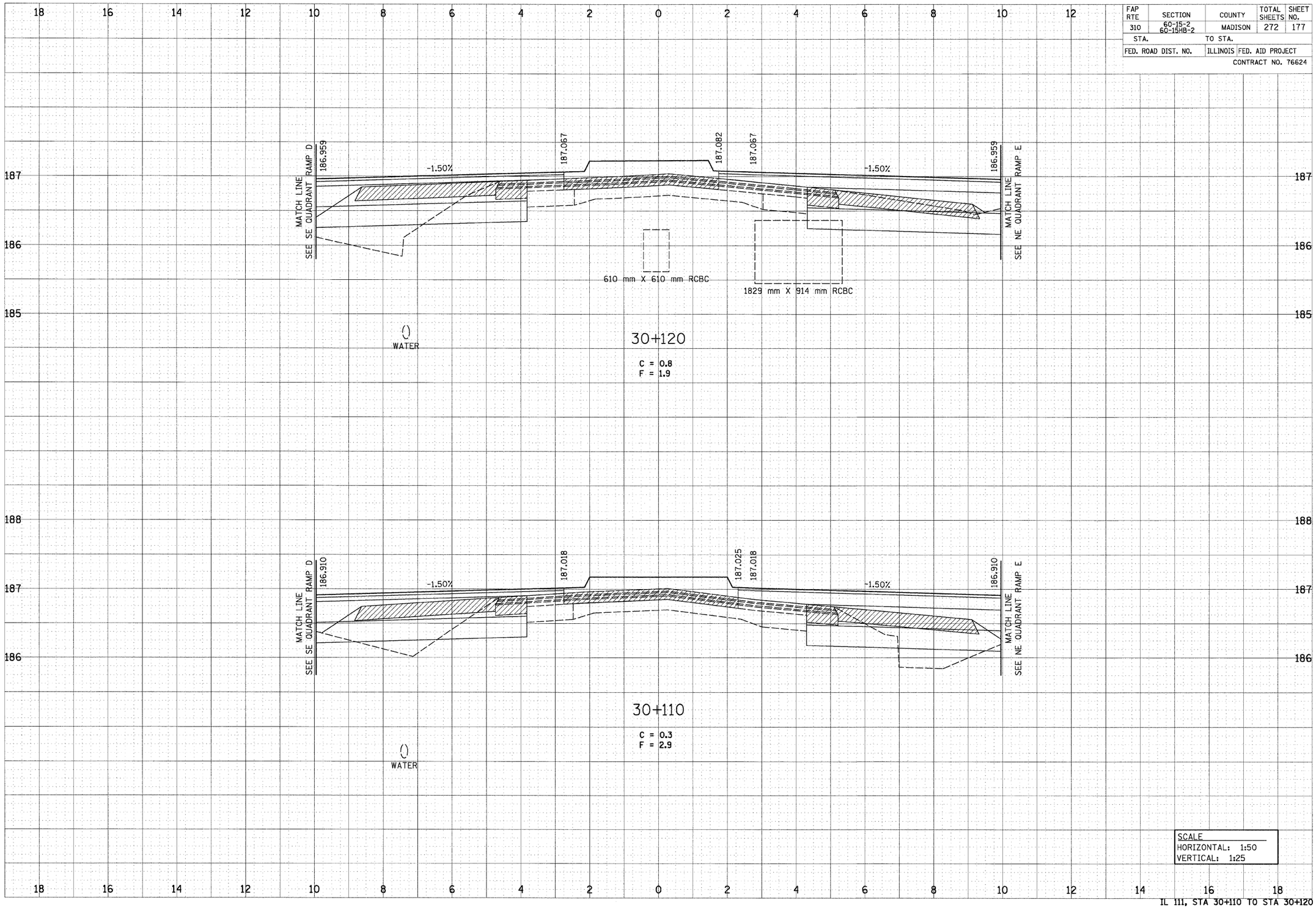
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	177
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	



IL 111, STA 30+110 TO STA 30+120

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12/7/2007

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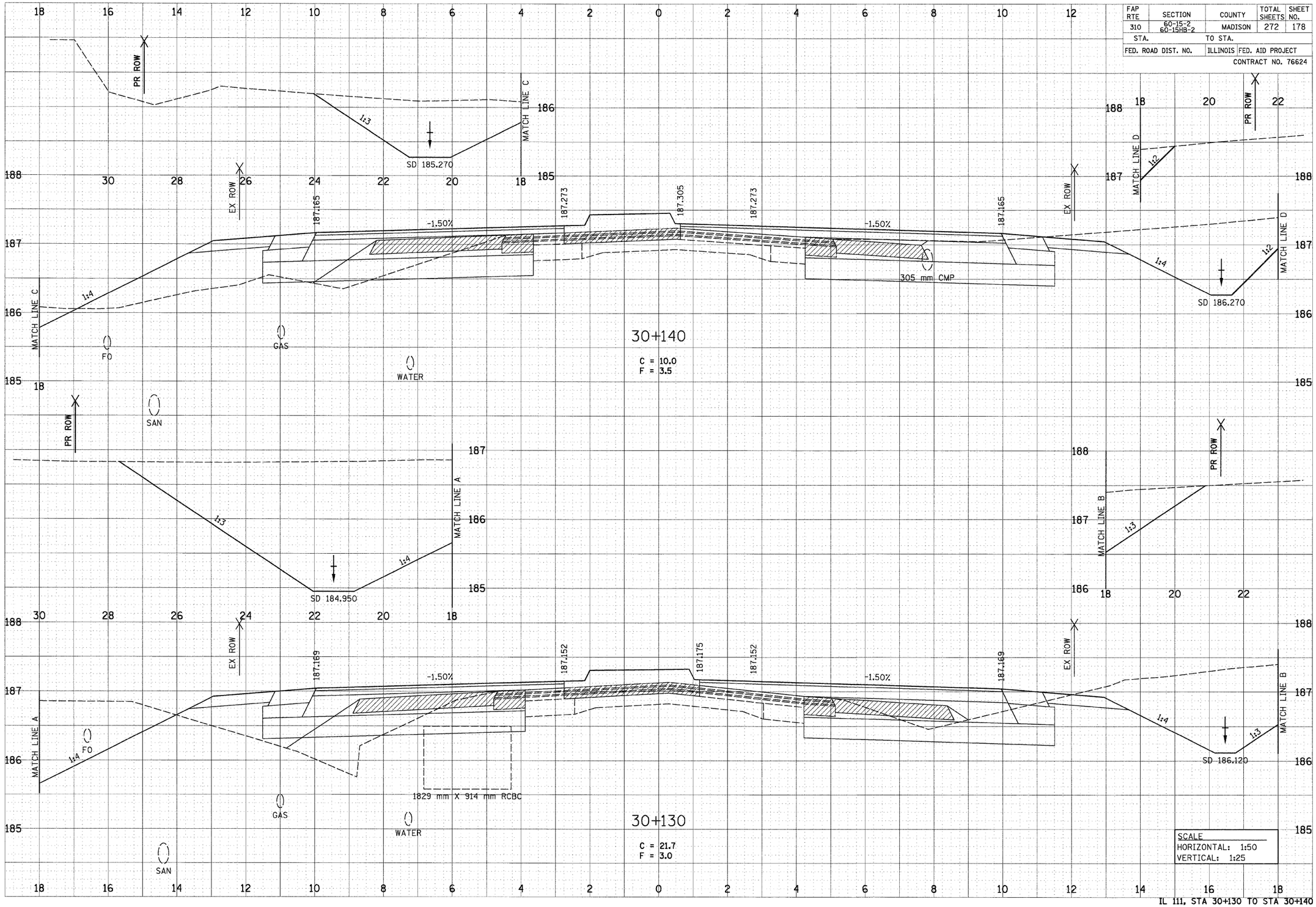
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	178
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
VOL.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
VOL.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+130 TO STA 30+140

bgj
12/7/2007
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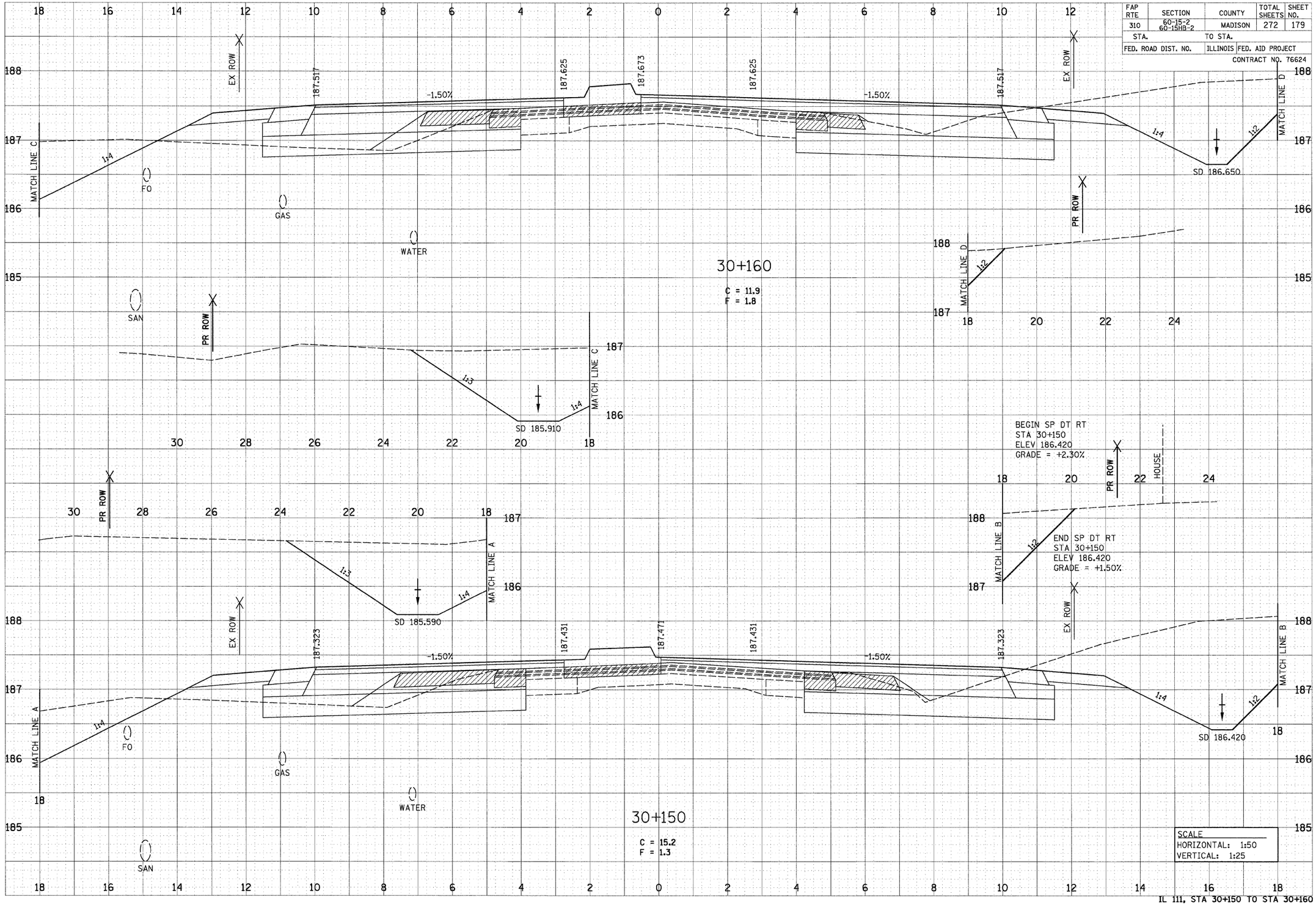
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	179
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+150 TO STA 30+160

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TYPED
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TYPED
AREAS
AREAS CHECKED
BY
DATE

bgj
12/7/2007
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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	180
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 76624

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TYPE SIZE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TYPE SIZE		
AREAS		
AREAS CHECKED		

30+180

C = 11.5
F = 0.4

30+170

C = 11.6
F = 0.4

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+170 TO STA 30+180

12/7/2007

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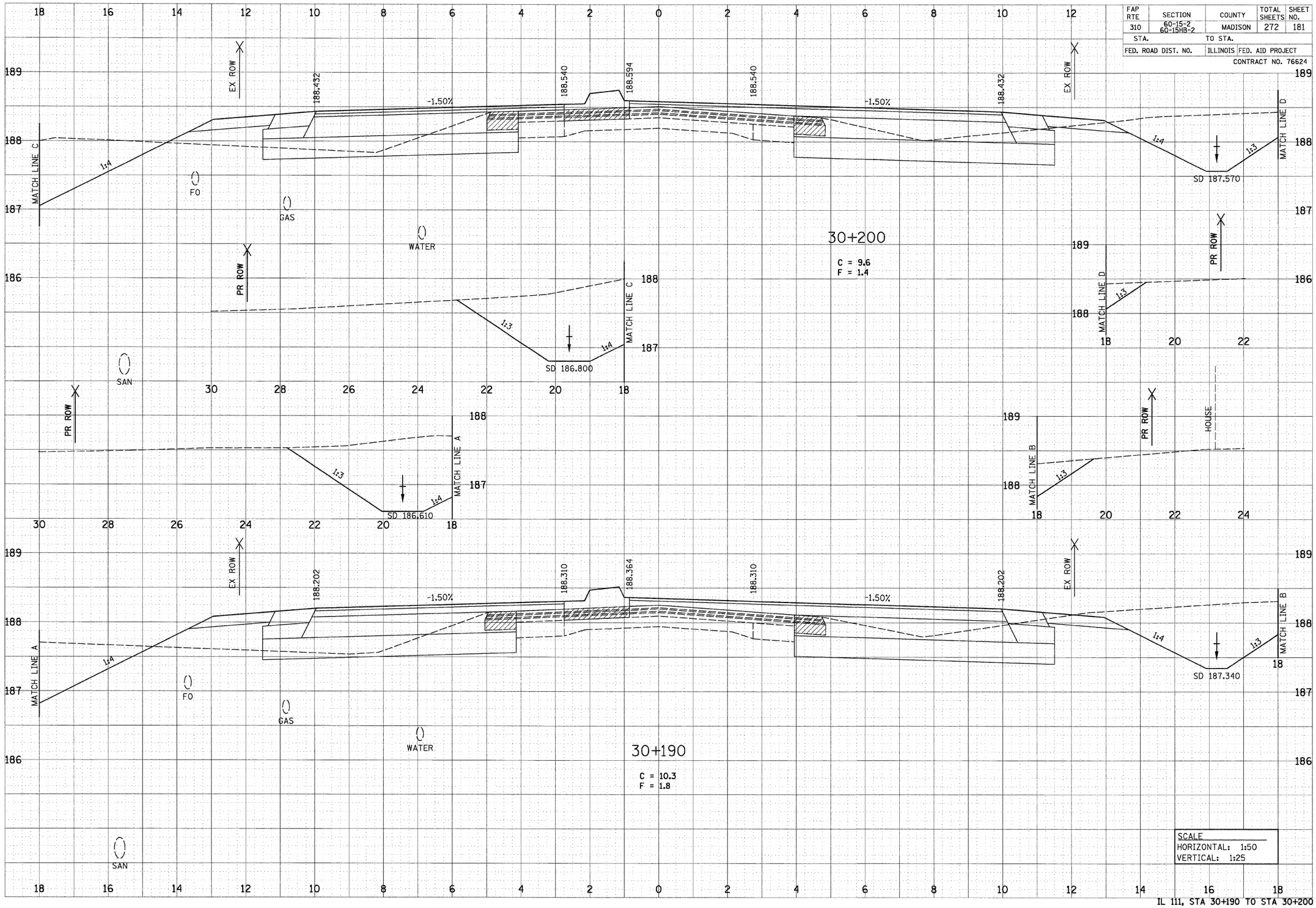
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	181
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



FINAL SURVEY
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

bgj
12/7/2007
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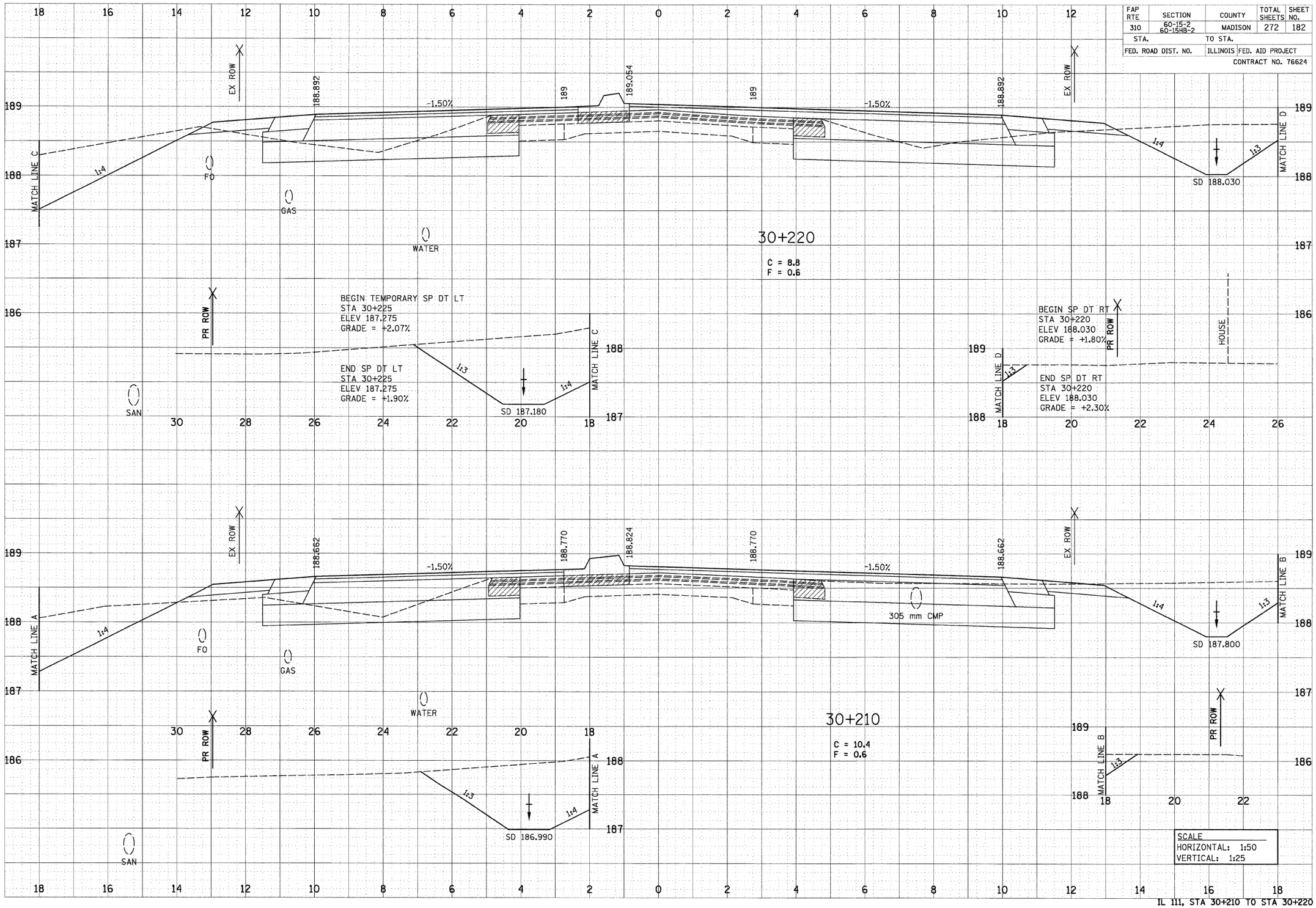
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	182
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+210 TO STA 30+220

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

12/7/2007

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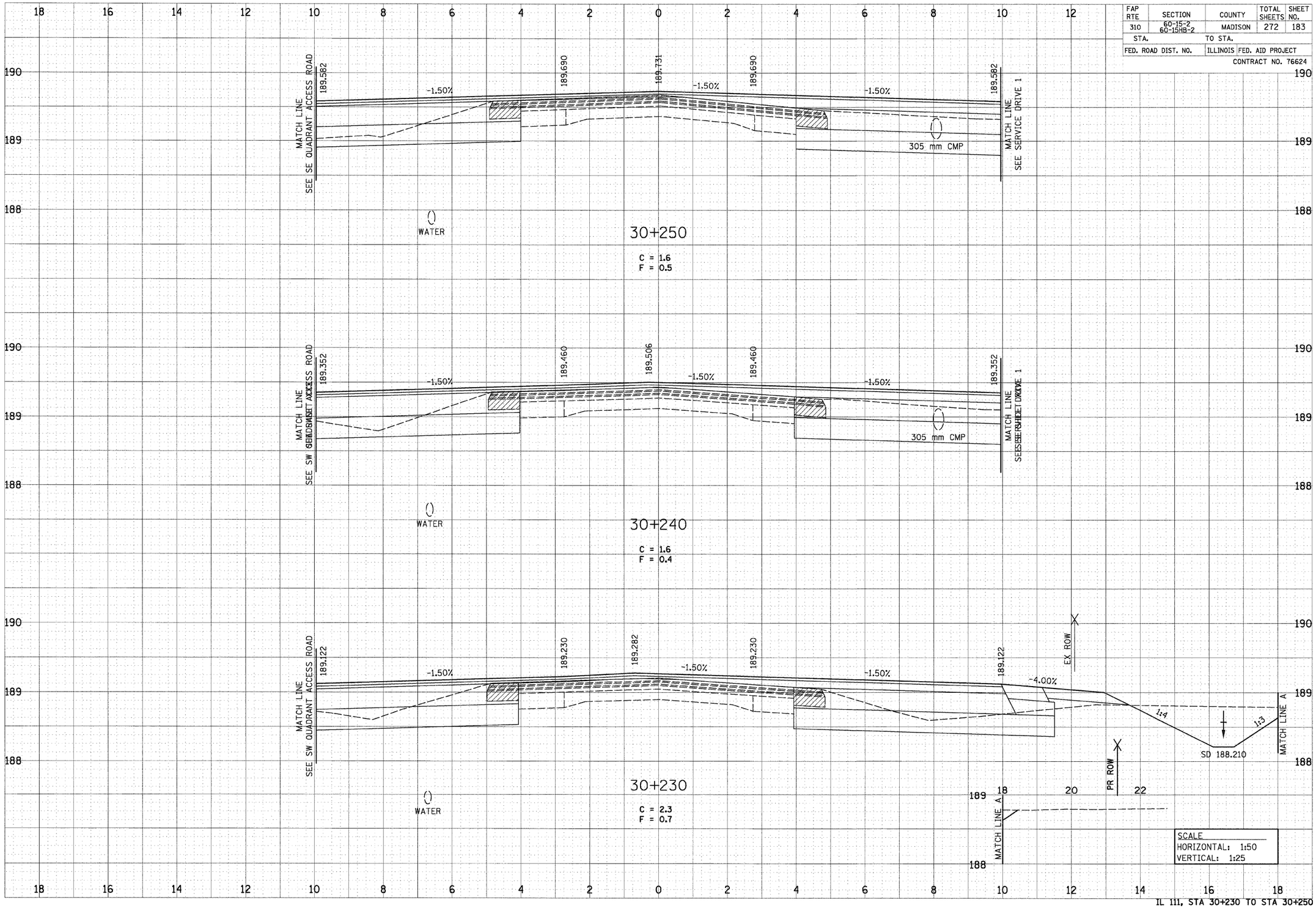
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	183
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+230 TO STA 30+250

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	184
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

30+272.7

30+270

C = 5.1
F = 2.0

30+260

C = 1.1
F = 0.4

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+260 TO STA 30+272.7

bgj

12/7/2007

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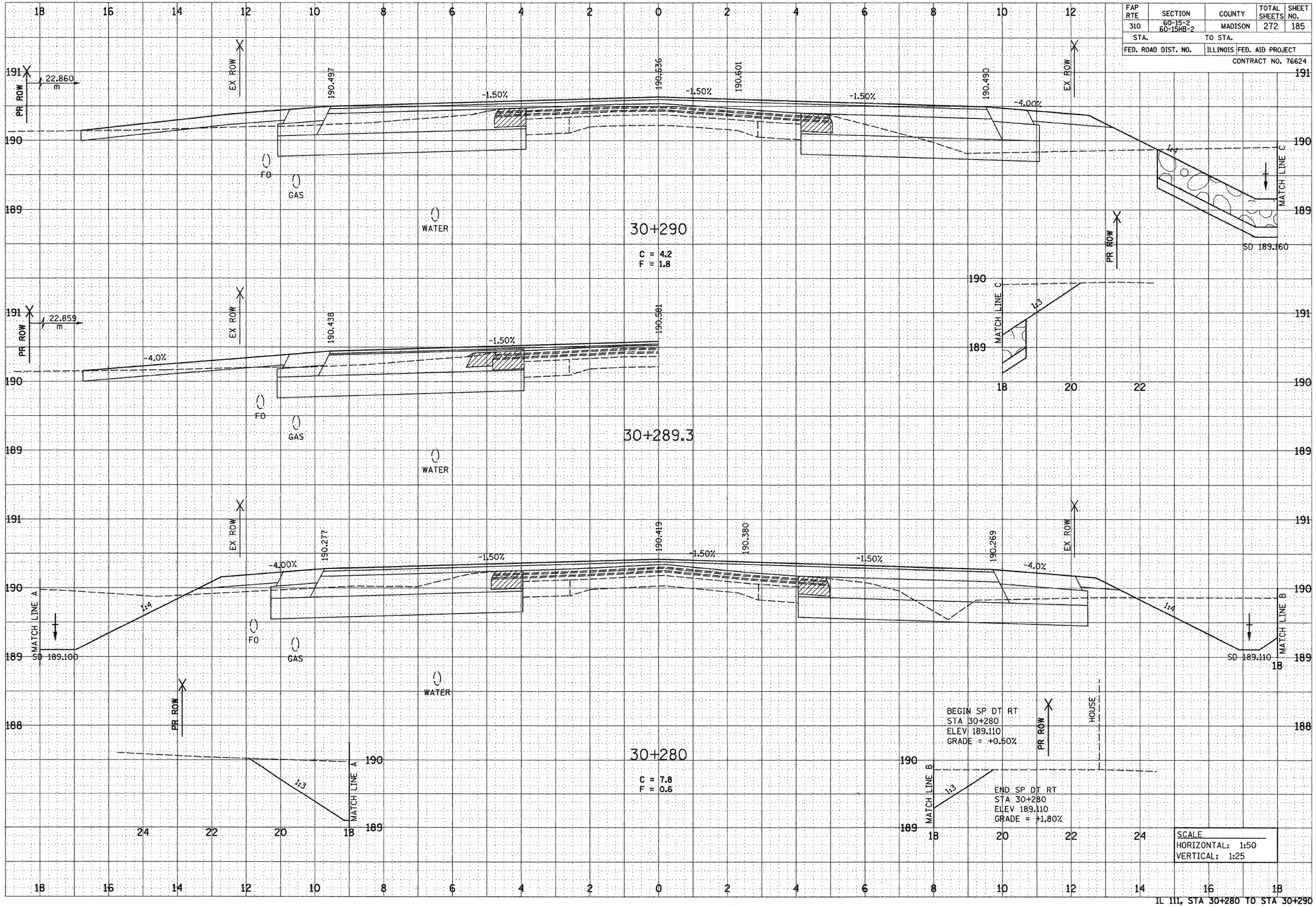
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	185
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



SCALE	
HORIZONTAL:	1:50
VERTICAL:	1:25

IL 111, STA 30+280 TO STA 30+290

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	
PLOTTED	DATE	
TYPE RTE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	
PLOTTED	DATE	
TYPE RTE		
AREAS		
AREAS CHECKED		

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5/13/2008

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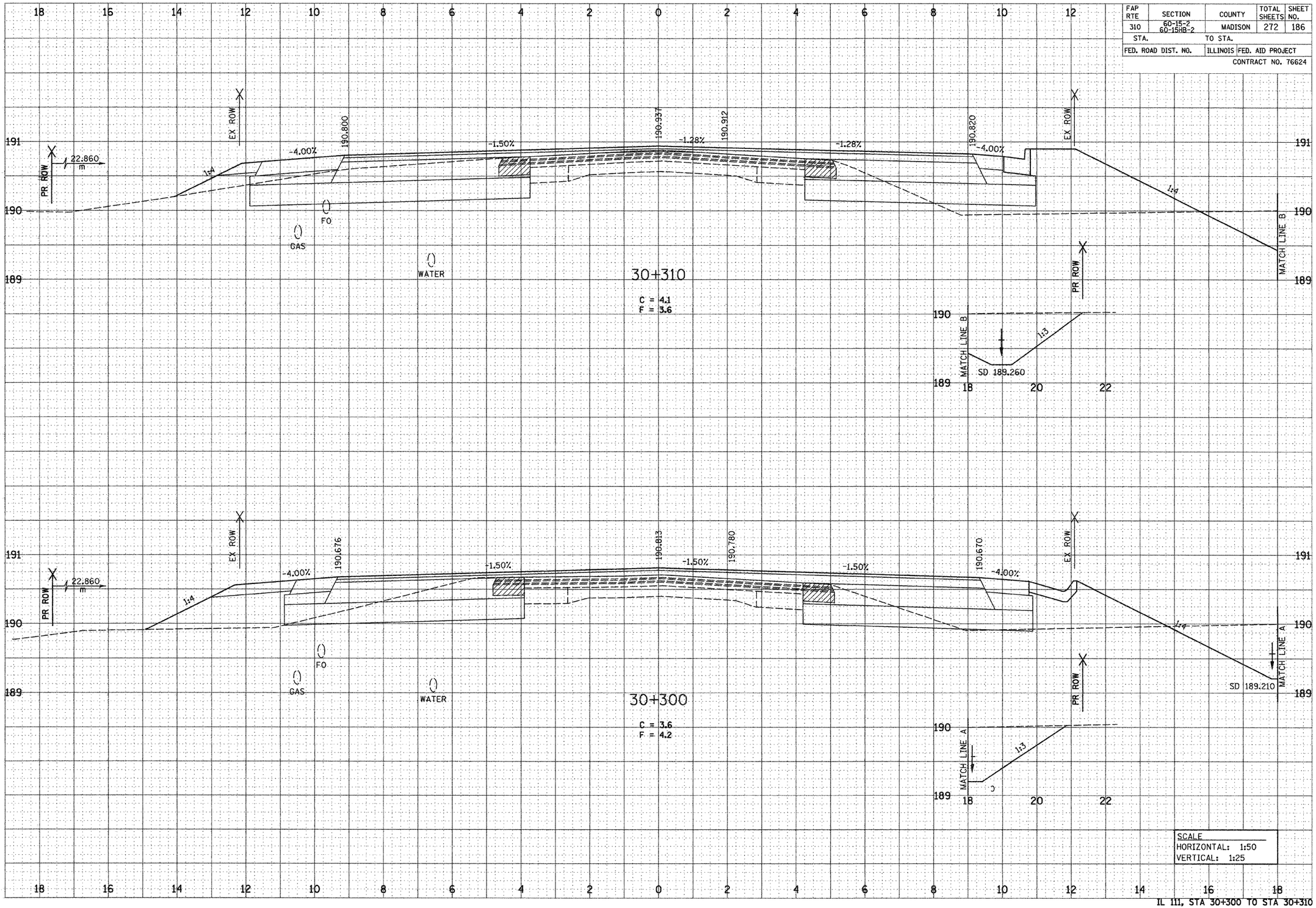
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	186
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+300 TO STA 30+310

5/13/2008

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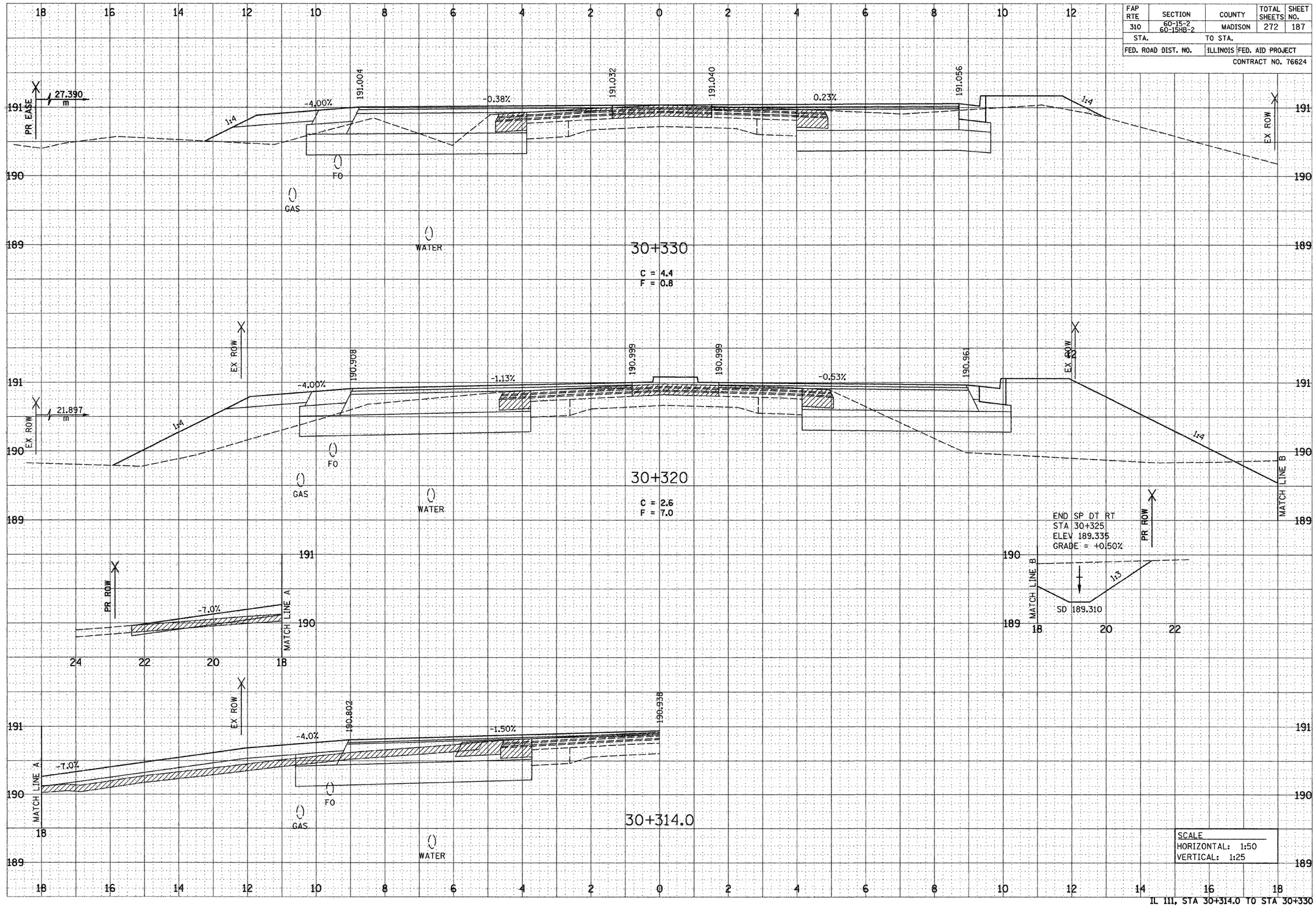
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	187
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

NO.	NOTE BOOK	FINAL SURVEY
		SURVEYED
		PLOTTED
		CHECKED
		AREAS
		AREAS CHECKED

NO.	NOTE BOOK	ORIGINAL SURVEY
		SURVEYED
		PLOTTED
		CHECKED
		AREAS
		AREAS CHECKED



IL 111, STA 30+314.0 TO STA 30+330

5/13/2008

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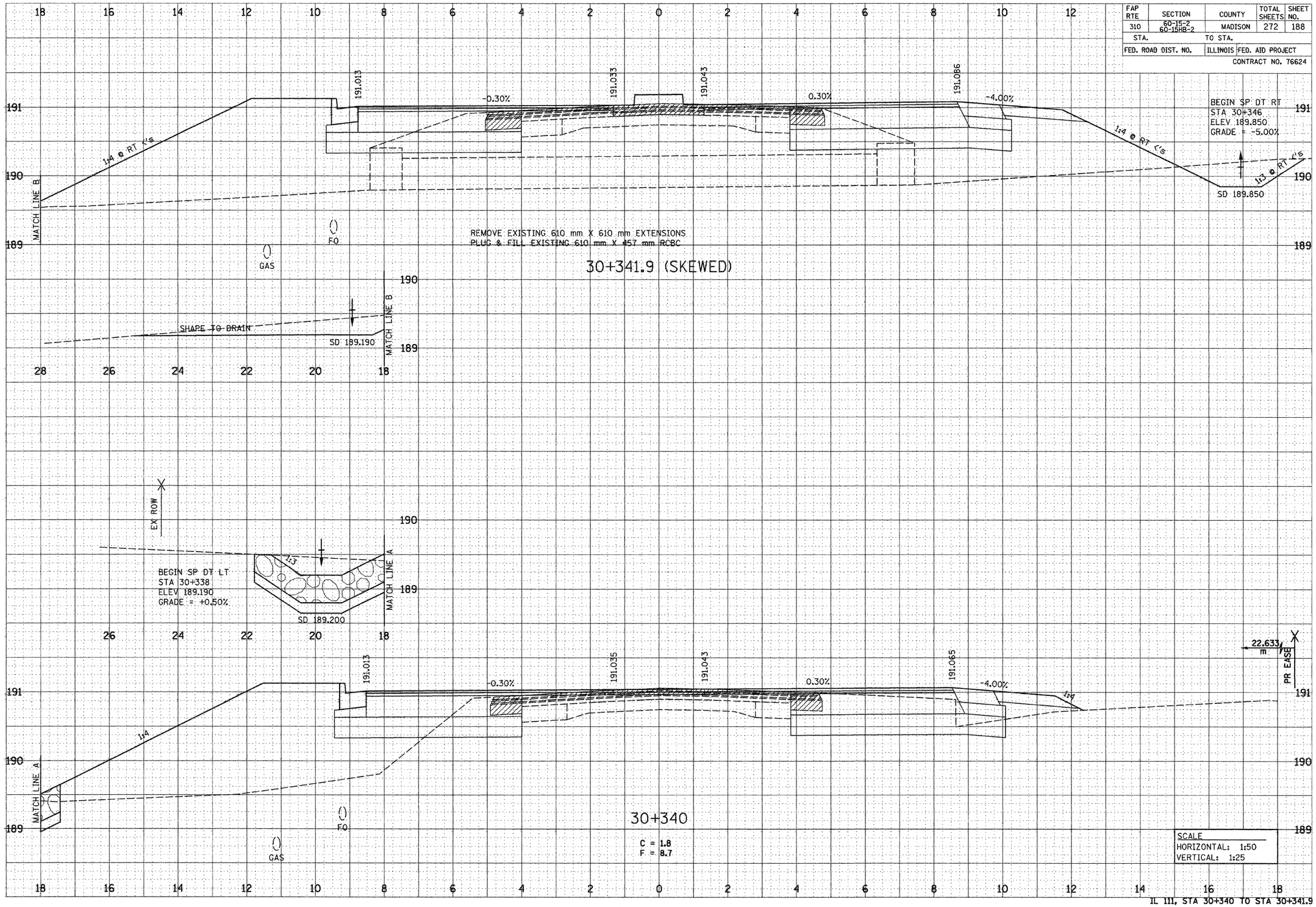
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	188
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+340 TO STA 30+341.9

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5/13/2008

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	189
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TYPE MATE	
	AREAS	
	AREAS CHECKED	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TYPE MATE	
	AREAS	
	AREAS CHECKED	

EX ROW
PR ROW
MATCH LINE C
MATCH LINE D
MATCH LINE A
MATCH LINE B
PR EASE
GAS
FO
SD 189.300
SD 189.475
SD 189.250
SD 189.650
-4.00%
-1.82%
1.82%
-1.06%
1.06%
1:4
1:3
190.879
191.026
191.043
191.174
190.943
191.019
191.043
191.119

30+360
C = 7.1
F = 6.3

30+350
C = 4.9
F = 9.2

BEGIN SP DT RT
STA 30+355
ELEV 189.400
GRADE = +1.50%

END SP DT RT
STA 30+355
ELEV 189.400
GRADE = -5.00%

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+350 TO STA 30+360

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5/13/2008

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	190
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

NO.	REVISED AREAS	BY	DATE
FINAL SURVEY	SURVEYED BY		
NOTE BOOK	PLOTTED BY		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED BY		
NOTE BOOK	PLOTTED BY		
	AREAS CHECKED		
NO.	REVISED AREAS	BY	DATE

30+370

C = 6.5
F = 5.1

30+365.3

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+364.9 TO STA 30+370

12/7/2007

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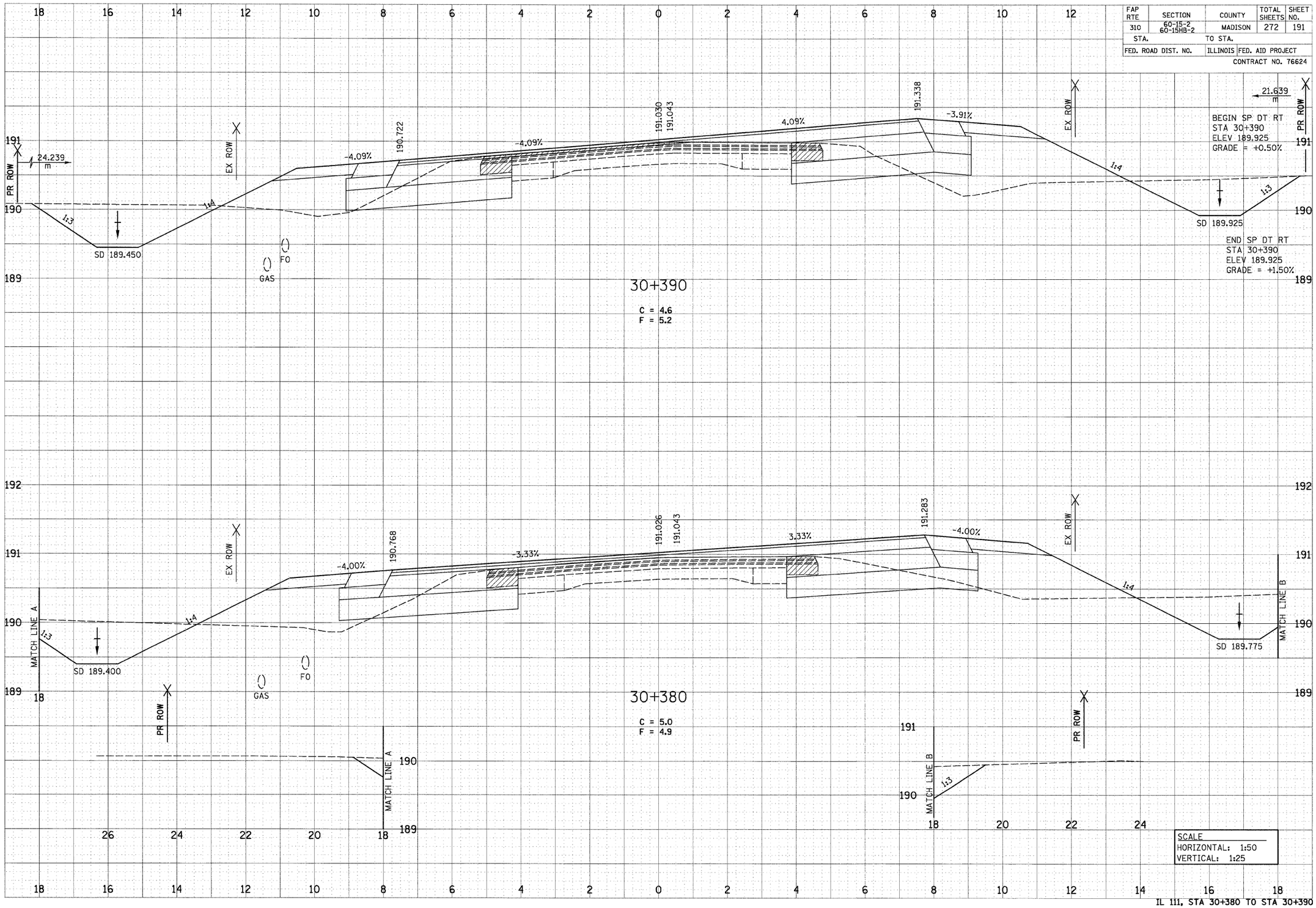
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	191
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+380 TO STA 30+390

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

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12/7/2007
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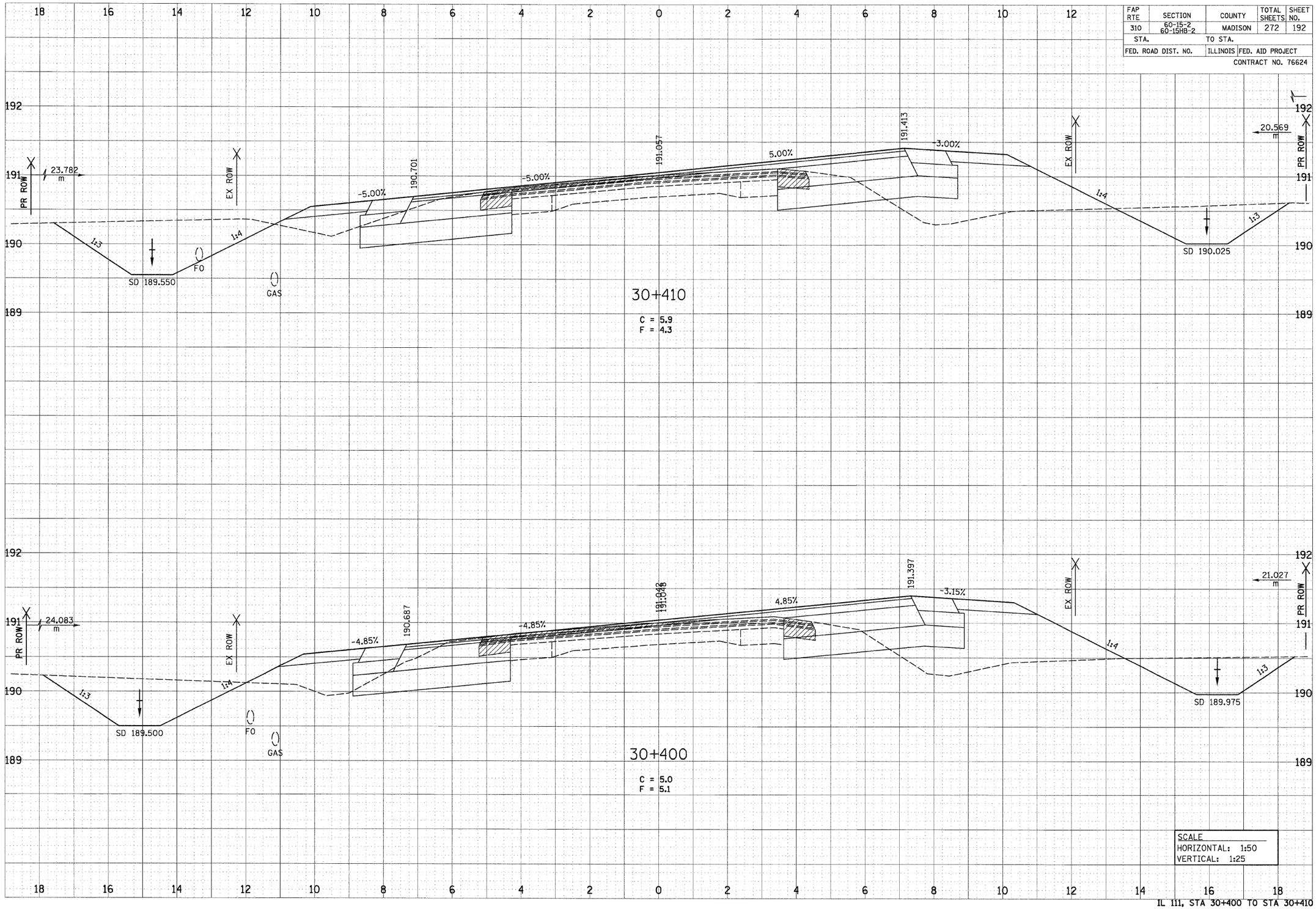
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	192
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+400 TO STA 30+410

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

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12/7/2007

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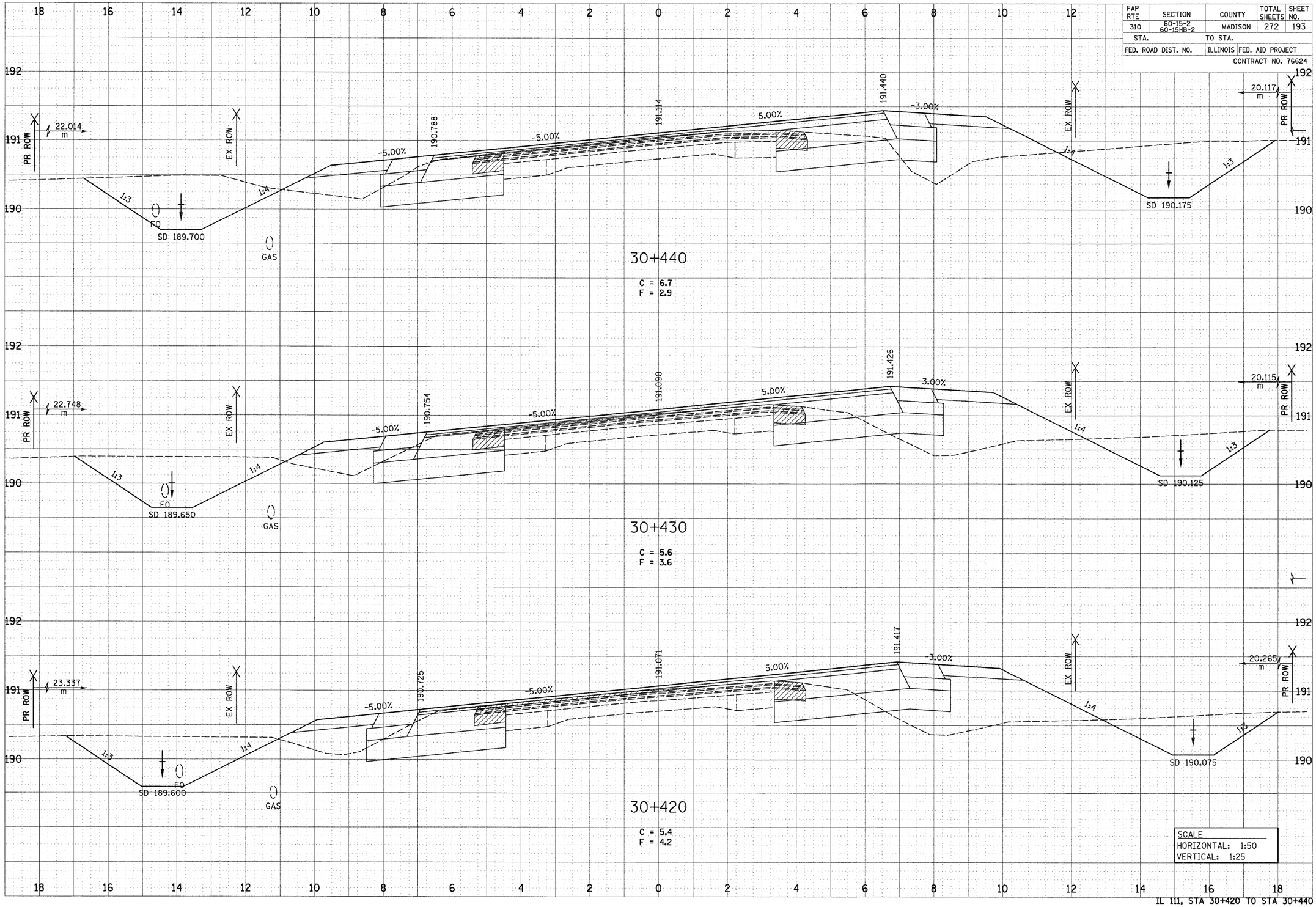
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	193
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+420 TO STA 30+440

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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12/7/2007
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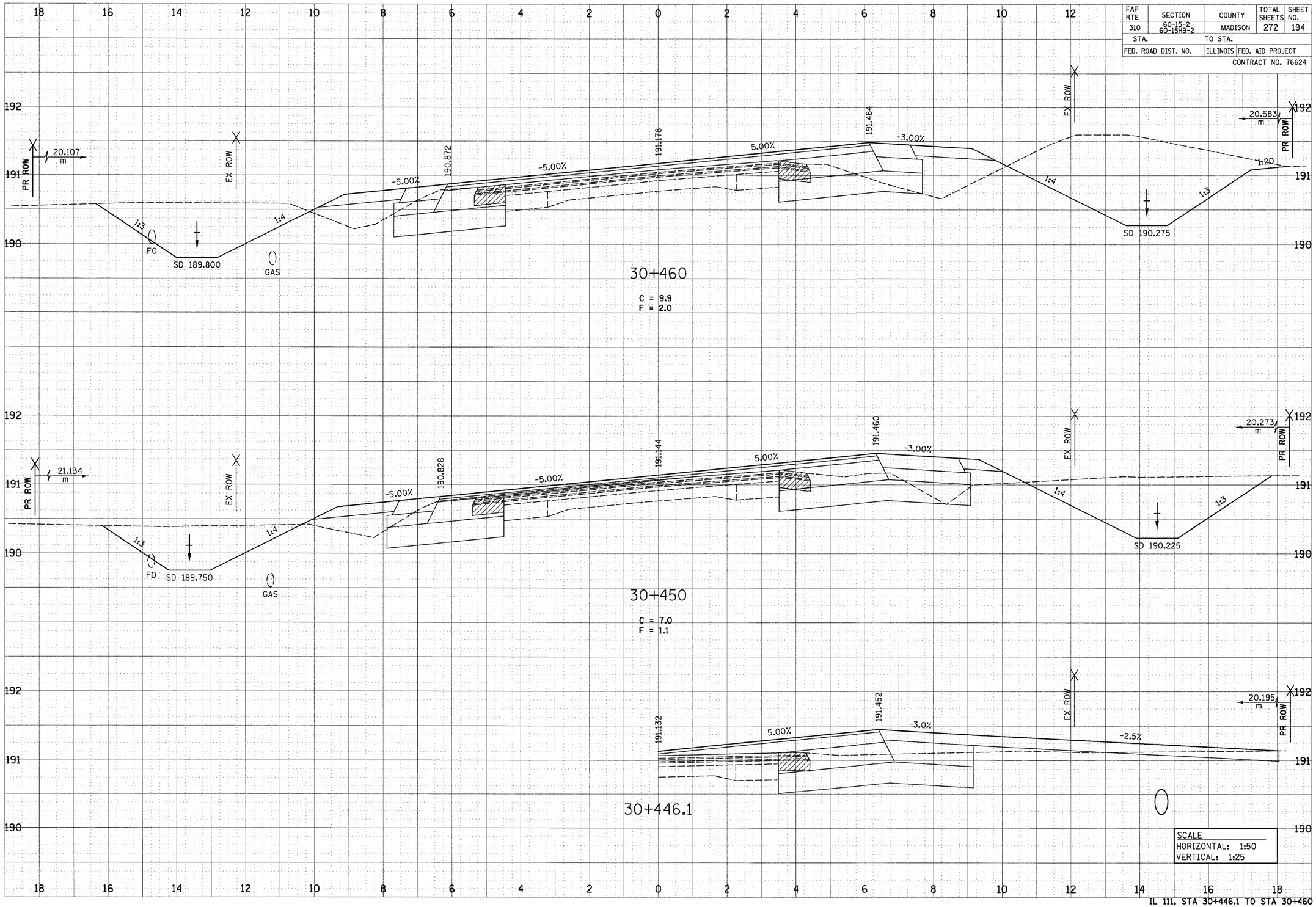
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	194
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+446.1 TO STA 30+460

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TYPE SIZE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TYPE SIZE		
AREAS		
AREAS CHECKED		

BY	DATE

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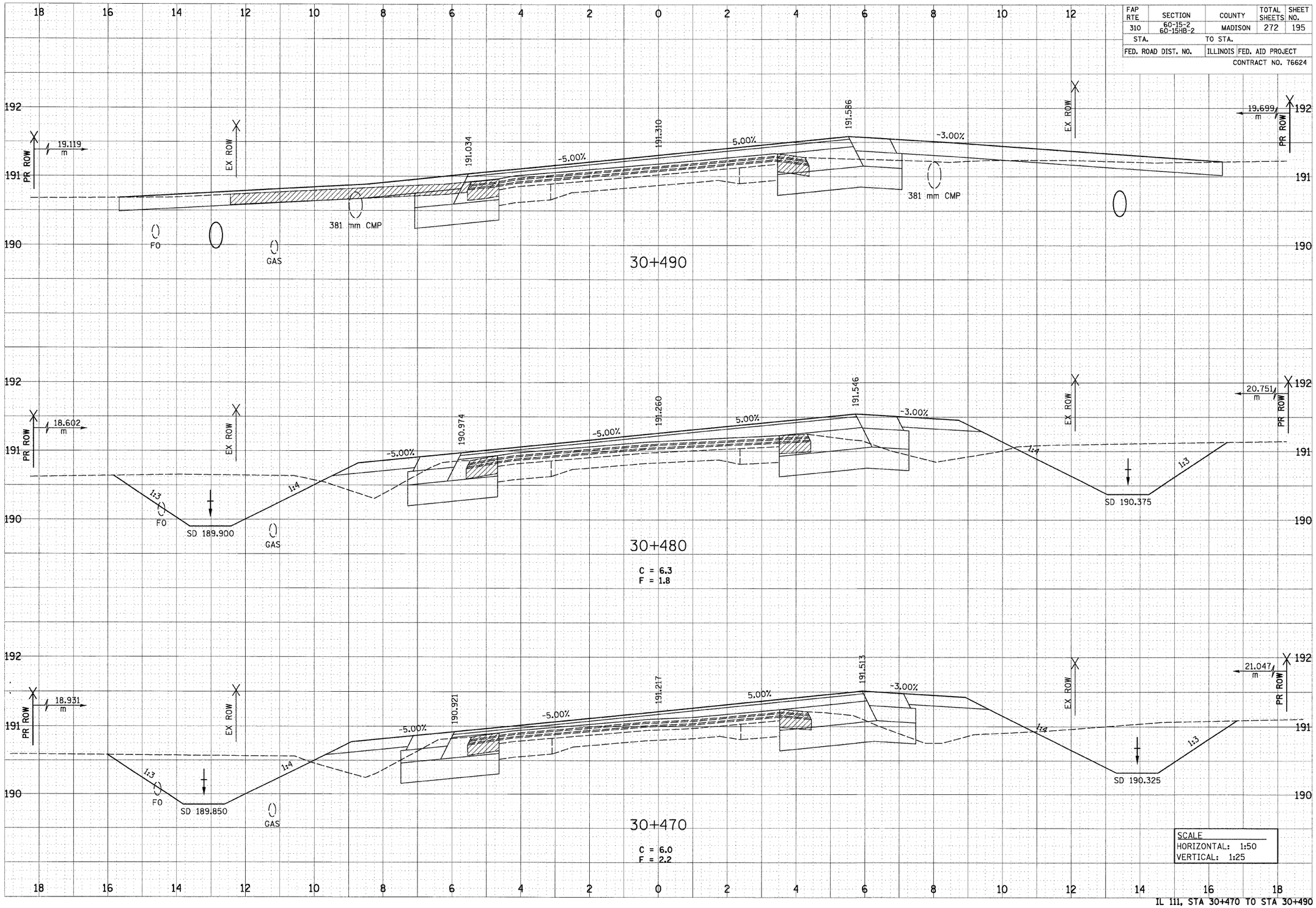
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	195
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



IL 111, STA 30+470 TO STA 30+490

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	AREAS	AREAS CHECKED
PLOTTED	TEMPLATE	

ORIGINAL SURVEY	NOTE BOOK
SURVEYED	AREAS
PLOTTED	TEMPLATE

BY DATE

12/7/2007

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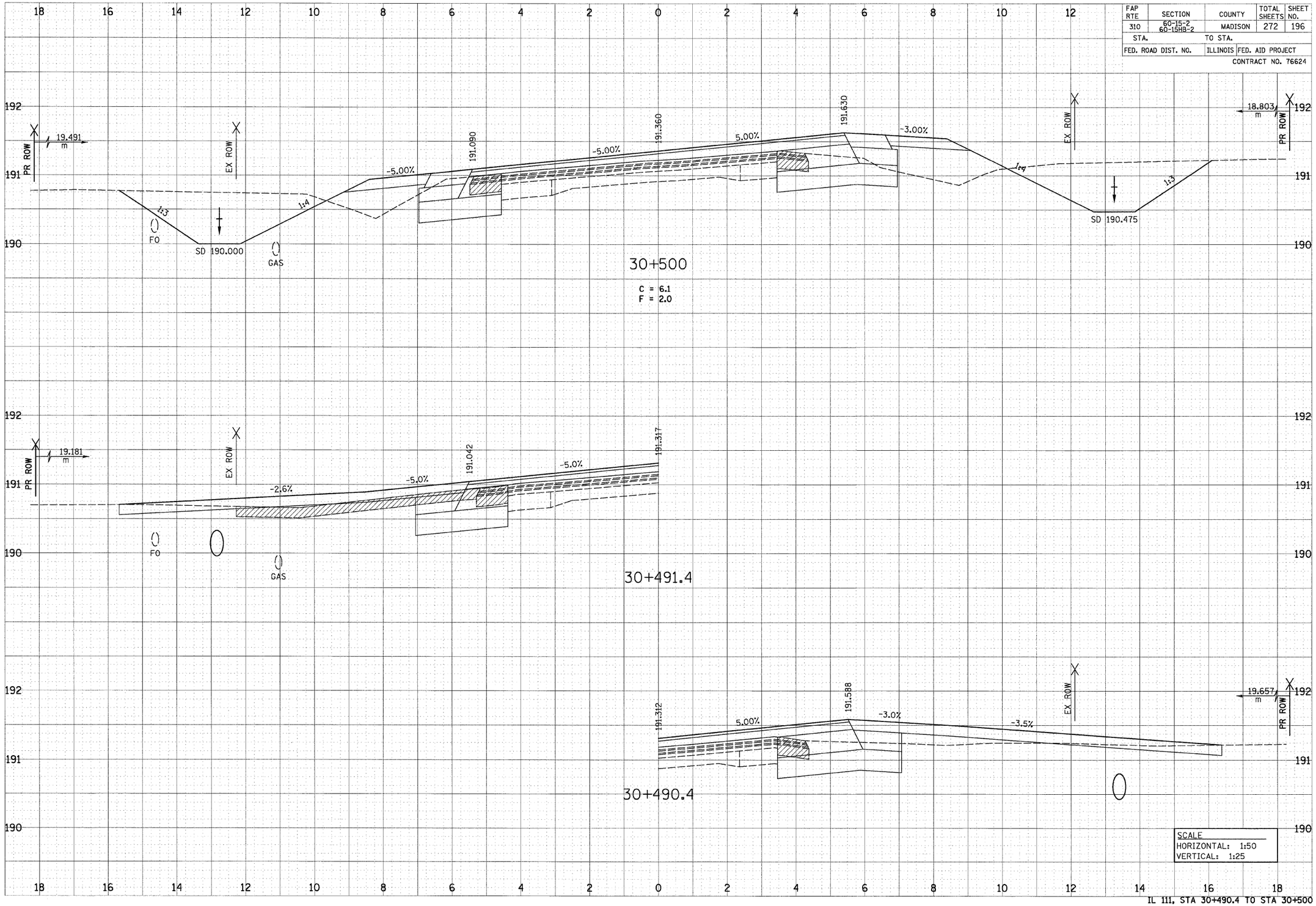
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	196
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 76624		



IL 111, STA 30+490.4 TO STA 30+500

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TRANSFERRED		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TRANSFERRED		
NO.	AREAS		
	AREAS CHECKED		

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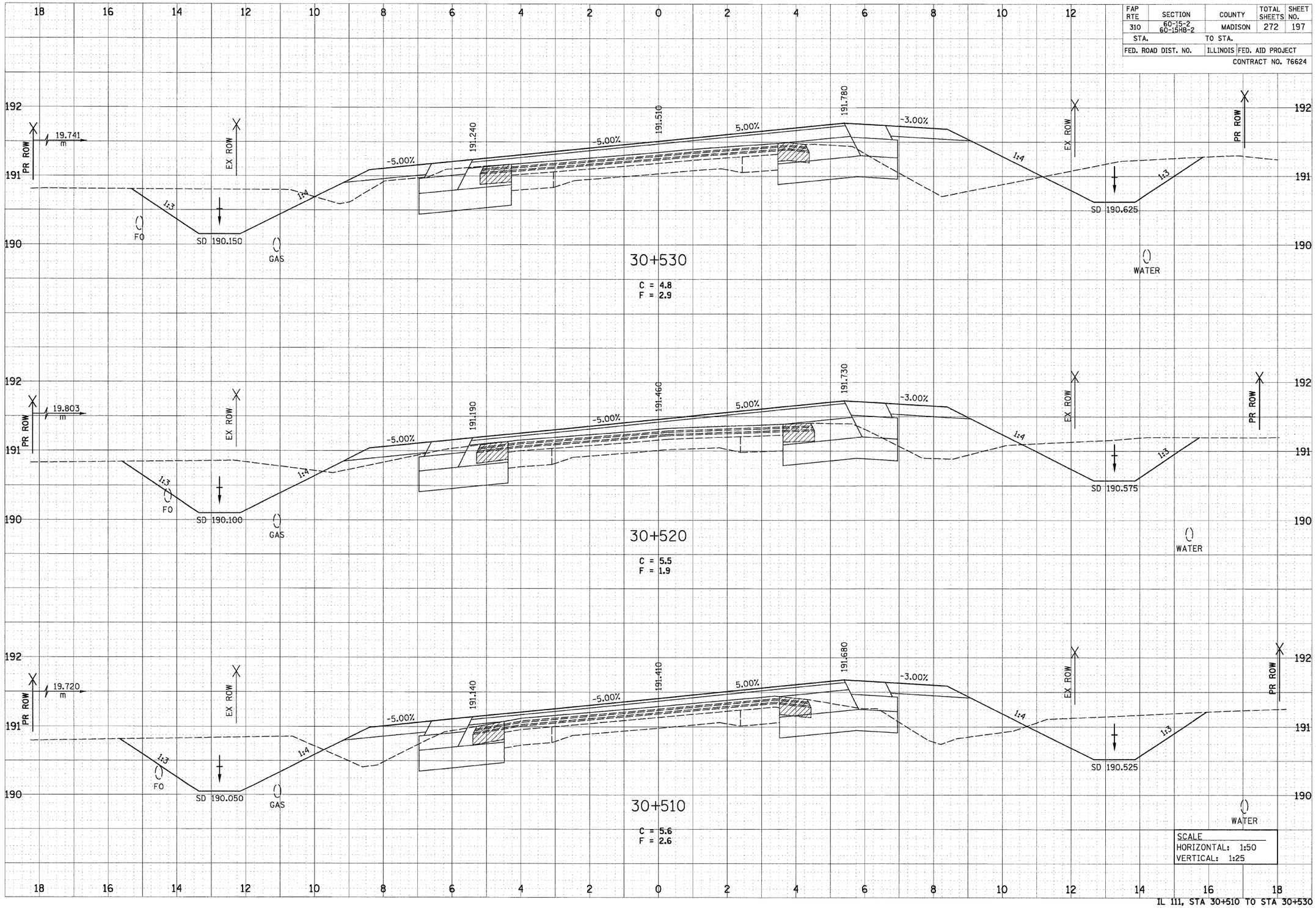
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	197
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+510 TO STA 30+530

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12/7/2007
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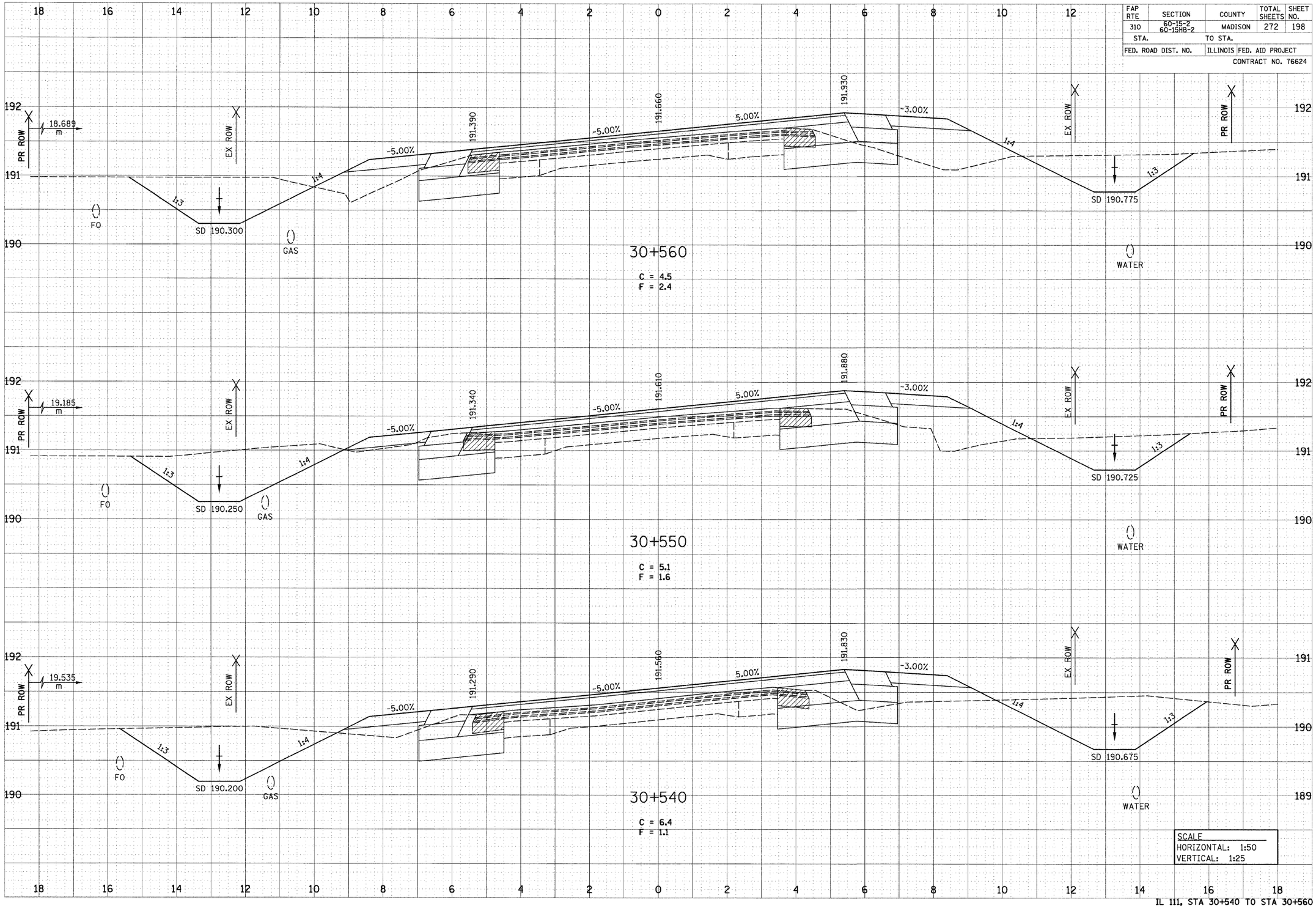
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	198
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	



SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+540 TO STA 30+560

FINAL SURVEY / ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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12/7/2007
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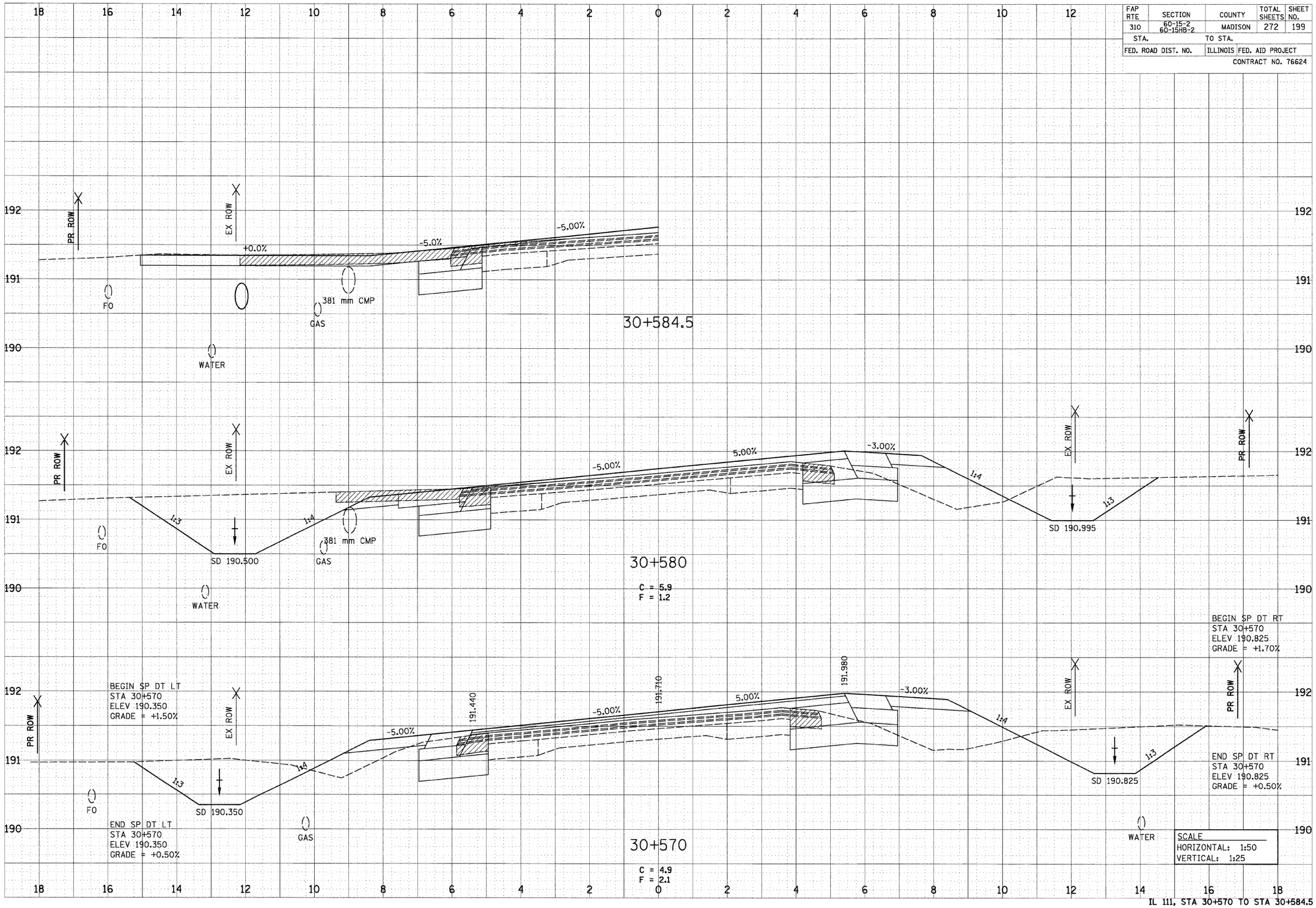
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	199
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

ORIGINAL SURVEY	SURVEYED	BY	DATE
FINAL SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



IL 111, STA 30+570 TO STA 30+584.5

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12/7/2007

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FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15-2 60-15HB-2	MADISON	272	200
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76624	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12

192
191
190

EX ROW
FO
WATER
GAS

30+610
C = 0.0
F = 0.0

PR ROW
EX ROW
FO
WATER
GAS
-5.00%
5.00%
-3.00%
VAR
SD 190.800
SD 191.335

END SP DT LT
STA 30+600
ELEV 190.800
GRADE = +1.50%

END SP DT RT
STA 30+600
ELEV 191.335
GRADE = +1.70%

30+600
C = 0.6
F = 0.2

PR ROW
EX ROW
FO
WATER
GAS
1:3
1:4
-5.00%
5.00%
-3.00%
SD 190.650
381 mm CMP
SD 191.165

30+590
C = 4.4
F = 0.7

SCALE
HORIZONTAL: 1:50
VERTICAL: 1:25

IL 111, STA 30+590 TO STA 30+610

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12/7/2007
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