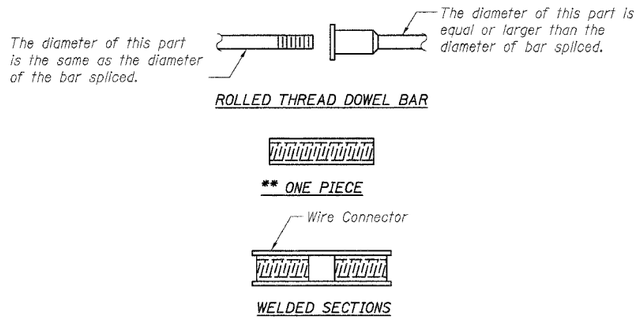
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1, 42-1	SALINE	199	101
STA.	TO STA.			
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

Sheet 4 of 7 Sheets

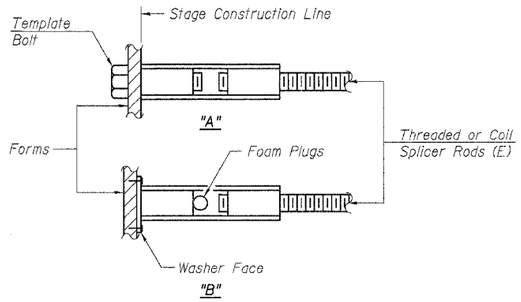
CONTRACT NO. 98631

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



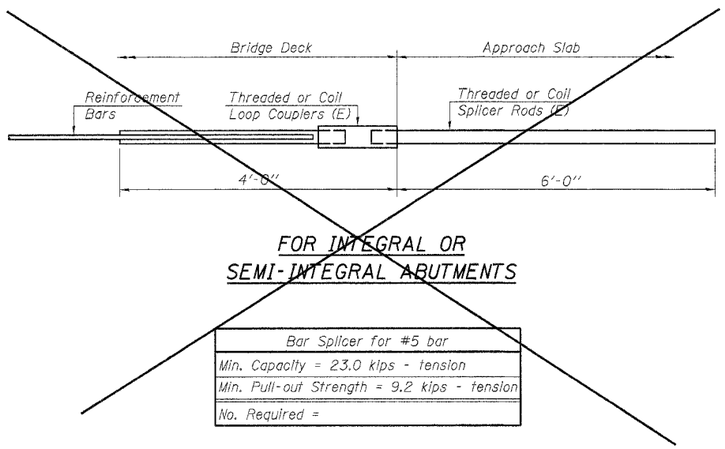
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



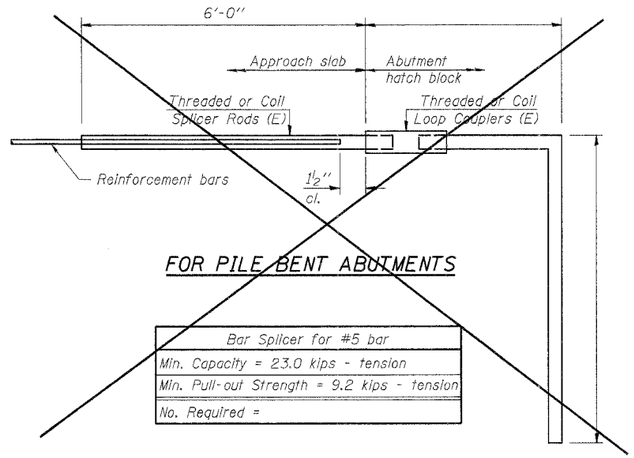
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



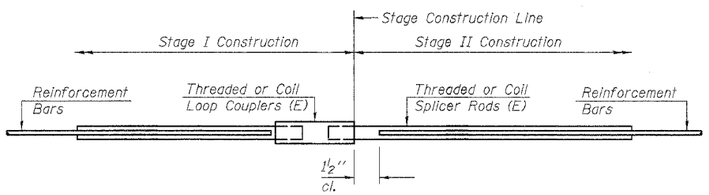
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	42	Top Slab
#5	48	Bott. Slab
#5	52	Side Walls

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

DESIGNED	G.R.
CHECKED	T.F.
DRAWN	M.D.
CHECKED	G.R.

BSD-1 9-01-03

BAR SPLICER DETAILS
U.S. ROUTE 45 OVER
TRIBUTARY TO MIDDLE FORK OF SALINE RIVER
F.A.P. ROUTE 332 SECTION 31B
SALINE COUNTY
STATION 365+86.00
STRUCTURE NUMBER 083-2014

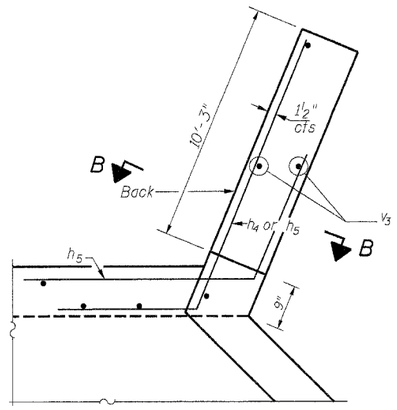
RC ENGINEERS, LTD.
CONSULTING ENGINEERS - SPRINGFIELD, ILLINOIS

\barsplicer.dgn 6/25/2008 2:28:53 PM

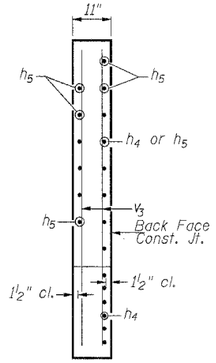
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1, 42-1	SALINE	199	102
STA.	TO STA.			
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

Sheet 5 of 7 Sheets

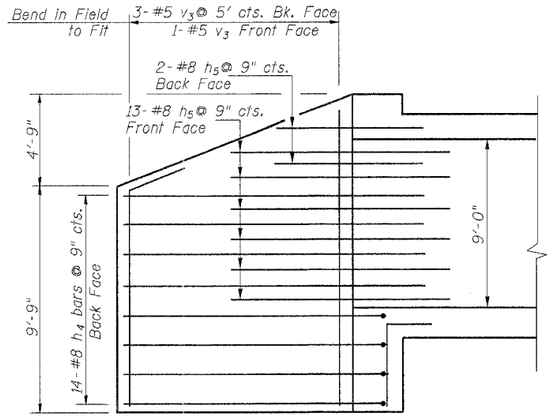
CONTRACT NO. 98631



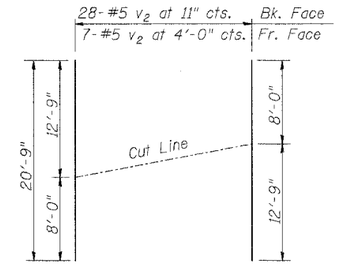
SHORT WING DETAIL



SEC. B-B

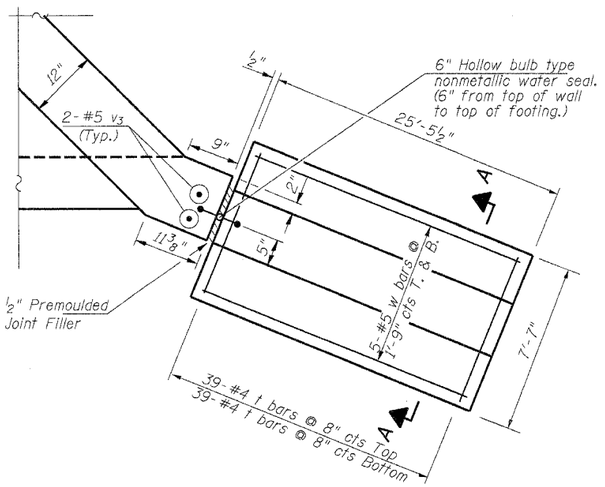


SHORT WING

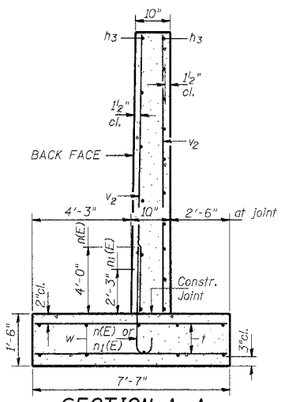


*FIELD CUTTING DIAGRAM BAR v_2

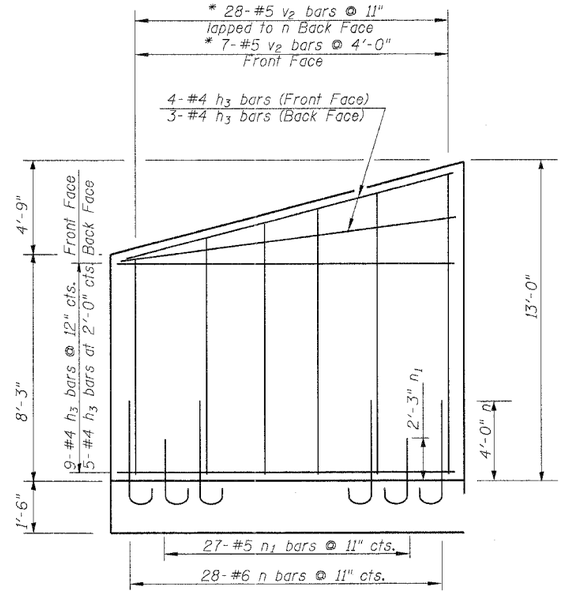
Order v_2 bars full length. Cut to fit as shown and use remainder in other wing walls.



LONG WING DETAIL



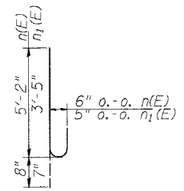
SECTION A-A



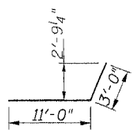
LONG WING

BILL OF MATERIAL

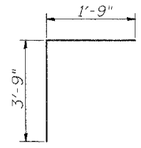
Bar	No.	Size	Length	Shape
a	572	#8	43'-10"	
a_1	420	#8	36'-0"	
a_2	176	#4	7'-9"	
d	72	#4	5'-6"	
d_1	16	#5	4'-3"	
d_2	8	#5	5'-10"	
d_3	8	#5	7'-6"	
d_4	16	#5	4'-7"	
d_5	8	#5	6'-2"	
d_6	8	#5	7'-10"	
h	284	#5	26'-8"	
h_1	426	#5	27'-4"	
h_2	14	#6	42'-0"	
h_3	40	#4	25'-3"	
h_4	28	#8	14'-0"	
h_5	30	#8	8'-0"	
h_6	8	#7	42'-0"	
n(E)	56	#6	5'-10"	
$n_1(E)$	54	#5	4'-0"	
s	84	#4	4'-11"	
s_1	42	#4	4'-9"	
t	156	#4	7'-3"	
v	840	#4	9'-0"	
v_1	840	#4	2'-8"	
v_2	35	#5	20'-9"	
v_3	12	#5	14'-2"	
w	20	#5	25'-3"	
Concrete Box Culvert		Cu. Yd.	421.4	
Reinforcement Bars		Pound	142,020	
Reinforcement Bars, Epoxy Coated		Pound	720	
Bar Splicers		Each	142	



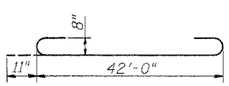
BARS n(E) and n_1(E)



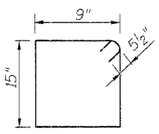
BAR h_4



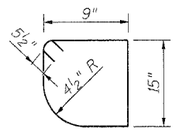
BAR d



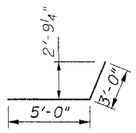
BAR a



BAR s



BAR s_1



BAR h_5

DESIGNED	K.P.S.
CHECKED	T.F.
DRAWN	T.F.
CHECKED	K.P.S..

WINGWALL DETAILS
U.S. ROUTE 45 OVER
TRIBUTARY TO MIDDLE FORK OF SALINE RIVER
F.A.P. ROUTE 332 SECTION 31-1, 42-1
SALINE COUNTY
STATION 365+86.00
STRUCTURE NUMBER 083-2014

RC ENGINEERS, LTD.
CONSULTING ENGINEERS - SPRINGFIELD, ILLINOIS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1, 42-1	SALINE	199	103
STA.		TO STA.		
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

Sheet 6 of 7 Sheets

CONTRACT NO. 98631

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials
Bridge Foundation Boring Log

FAP 332 (US 45) Over drainage ditch — Sheet 1 of 1
Route: FAP 332 (US 45) — Structure Number: 083-0003 — Date: 04/04/1996
Section 31-1 & 42-1 — Bored By: R Moberly
County: Saline — Location: NW Corner Section 1, T9S, R6E — Checked By: E West
Boring No 1-S
Station 365+32
Offset 13' Rt CL
Ground Surface 376.6 Ft
Surf Wat Elev: 366.2
Ground Water Elevation
when Drilling
At Completion
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
				Asphalt & Crushed Aggregate
375.1				
	3			Stiff, moist, grey mottled brown,
	2	1.2B	25	Clay to Silty Clay A-7-6
	2			
372.1				
5.0	1			Very soft, very moist, grey
	2	0.2B	29	mottled brown, Silty Clay to
	2			Silty Clay Loam A-6
	WH			
368.6	WH	0.2B	32	
	1	1.2B		Stiff to very stiff, moist, grey
				mottled brown, Clay A7-6
10.0	2			
	4	2.1B	25	
	5			
364.6				
	2			Stiff, moist, brown mottled grey,
	3	1.8B	20	Silty Clay A-6
	3			
362.1				
15.0	2			Stiff, moist, brown mottled grey,
	3	1.9B	21	Clay to Silty Clay A7-6
	4			
359.6				
	2			Very stiff, moist, grey mottled
	3	2.1B	19	brown, Clay to Silty Clay A-6
	4			
357.1				
20.0	3			
	5	3.3B	22	Very stiff, moist, brown mottled
	8			grey, Clay A7-6
	2			
	5	3.1S	26	
	5			
25.0	3			

DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
	5	3.3B	21	Very stiff, moist, brown mottled
	7			grey, Clay A7-6
348.6				
	3			
	5	3.3B	24	
	18			Hard, damp, grey and brown,
				Weathered Clay Shale
30.0	9			
	13			
	21			
344.1	15			
	100/6"			Hard, dry, grey, Clay Shale
35.0	100/3.5"			
336.6				
40.0	100/3"			
				Bottom of hole = 39.8 feet
				No free water observed
				Elevation referenced to BM
				#370 = 376.7 feet
45.0				Note: To Convert "N" values to
				"N60" multply by 1.25
50.0				

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

LINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials
Bridge Foundation Boring Log

FAP 332 (US 45) Over drainage ditch — Sheet 1 of 1
Route: FAP 332 (US 45) — Structure Number: 083-0003 — Date: 04/09/1996
Section 31-1 & 42-1 — Bored By: R Moberly
County: Saline — Location: NW Corner Section 1, T9S, R6E — Checked By: E West
Boring No 2-S
Station 365+43
Offset 26' Lt CL
Ground Surface 376.0 Ft
Surf Wat Elev: 366.1
Ground Water Elevation
when Drilling
At Completion
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
				Medium, moist, brown and grey,
				Silty Clay to Silty Clay Loam A-6
	2			
	8			
	6			
371.5				
5.0	1			
	2	0.7B	25	Medium, moist to very moist,
	1			brown and grey, Silty Clay A-6
369.0				
	1			
	1	0.5B	33	Medium to soft, very moist,
	1			brown and grey, Silty Clay Loam
				A-4
366.5				
10.0	WH			
	1	1.4B	23	Stiff, moist, brown mottled grey,
	3			Silty Clay A-6
	2			
	3	1.4B	21	
	4			
15.0	1			
	3	1.6B	21	
	3			
359.0				
	2			Very stiff, moist, brown mottled
	3	2.9B	22	grey, Clay A7-6
	4			
356.5				
20.0	2			Stiff, moist, brown mottled grey,
	4	1.5S	21	Clay to Clay Loam A7-6
	5			
	1			
	3	1.1B	24	
	3			
25.0	3			

DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
	5	4.1B	18	Hard, moist, brown mottled grey,
	8			Clay to Silty Clay A7-6
348.5				
	10			
	100/10"			Hard, damp to dry, grey,
				Clay Shale
346.0	30.0	100/6"		
				Bottom of hole = 30.0 feet
				No free water observed
				Elevation referenced to BM
				#370 = 376.7 feet
35.0				Note: To converty "N" values to
				"N60" multiply by 1.25
40.0				
45.0				
50.0				

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

DESIGNED	G.R.
CHECKED	T.F.
DRAWN	M.D.
CHECKED	G.R.

BORING DATA
TRIBUTARY TO MIDDLE FORK OF SALINE RIVER
U.S. ROUTE 45 OVER
F.A.P. ROUTE 332 SECTION 31-1, 42-1
SALINE COUNTY
STATION 365+86.00
STRUCTURE NUMBER 083-2014

R.C. ENGINEERS LTD.
CONSULTING ENGINEERS - SPRINGFIELD, ILLINOIS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1, 42-1	SALINE	199	104
STA.		TO STA.		
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

Sheet 7 of 7 Sheets

CONTRACT NO. 98631

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

Sheet 1 of 1

FAP 332 (US 45) Over drainage ditch

Route: FAP 332 (US 45) Structure Number: 083-0003 Date: 05/04/1999

Section 31-1 & 42-1 Bored By: R Moberly

County: Saline Location: NW Corner Section 1, T9S, R6E Checked By: R Moberly

Boring No 3-S
Station 366+53
Offset 39' Lt CL
Ground Surface 365.2 Ft

Surf Wat Elev: 365.6
Ground Water Elevation
when Drilling 365.6
At Completion 365.6
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DEPTH	BLOW	Qu tsf	W%
Soft, very moist, grey, Clay A7-6							
	—	0.4B	28				
361.7							
5.0				30.0			
Stiff, moist, brown mottled grey, Silty Clay to Clay A7-6	—	1.2B	21				
357.7							
Very stiff, moist, brown mottled grey, Clay A7-6	—	2.3B	22				
10.0				35.0			
	—	2.1B	22				
	—	2.3B	21				
15.0				40.0			
	—	3.5B	22				
	—	2.9B	23				
346.7							
20.0				45.0			
Bottom of hole = 18.5 feet							
Free water observed at 0.5 feet							
Elevation referenced to Bench Mark # 370 = 376.7 feet							
25.0				50.0			

F-Std Pentr Test: 2" OD Sampler,
40# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

DESIGNED	G.R.
CHECKED	T.F.
DRAWN	J.B.-M.D.
CHECKED	G.R.

BORING DATA
U.S. ROUTE 45 OVER
TRIBUTARY TO MIDDLE FORK OF SALINE RIVER
F.A.P. ROUTE 332 SECTION 31-1, 42-1
SALINE COUNTY
STATION 365+86.00
STRUCTURE NUMBER 083-2014

R.C. ENGINEERS, LTD.
CONSULTING ENGINEERS - SPRINGFIELD, ILLINOIS

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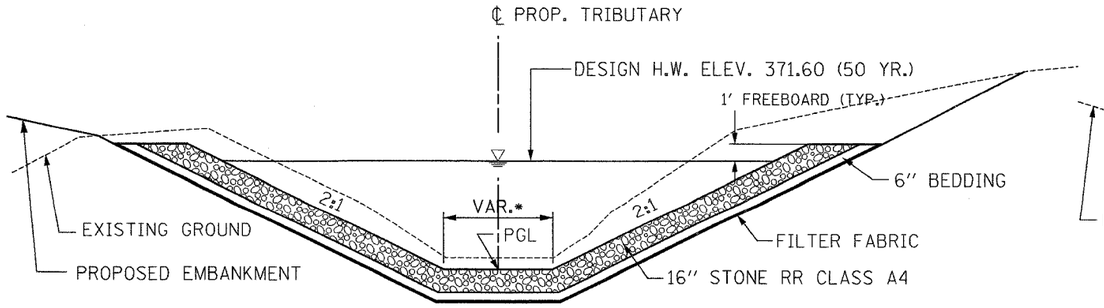
CONTRACT NO. 98631

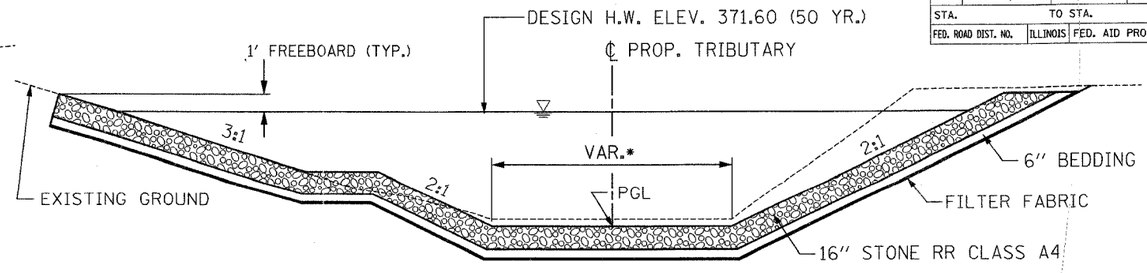
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	105
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL CHANNEL SECTION

(NO SCALE)

* CHANNEL BOTTOM VARIES FROM 6'-0" AT STA. 0+20 TO 28'-6" AT STA. 1+01. CHANNEL BOTTOM IS 28'-6" FROM STA. 1+01 TO STA. 2+32.

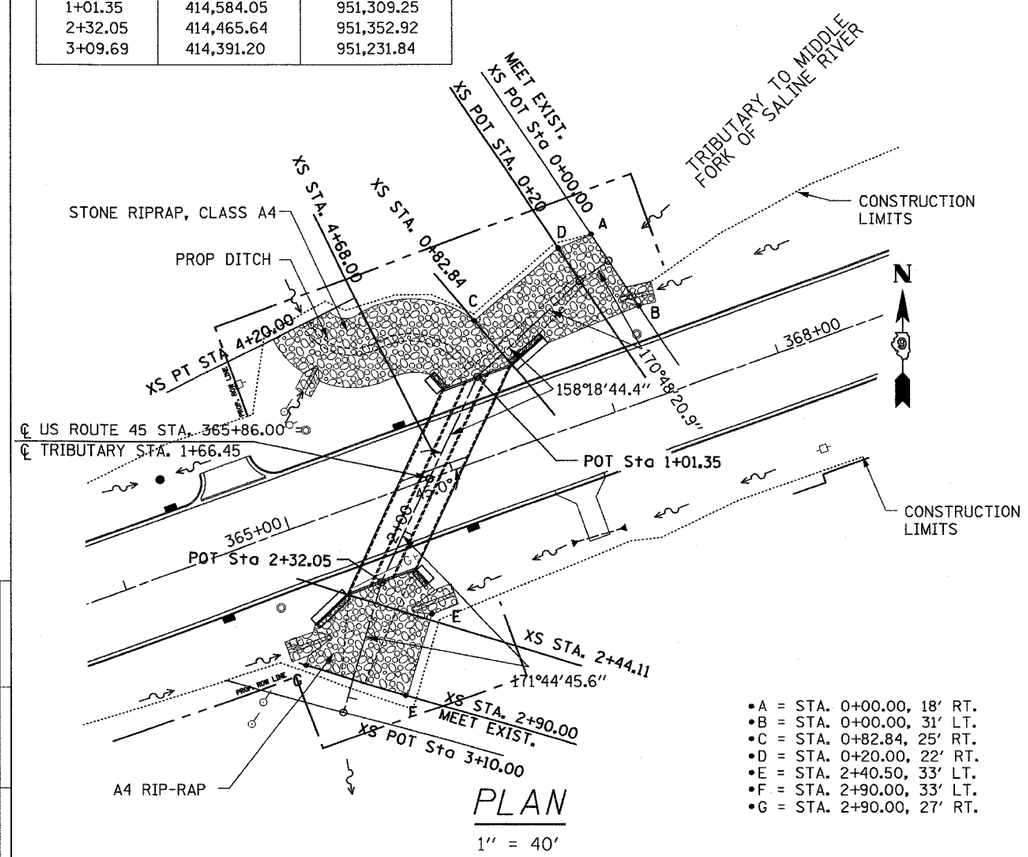


TYPICAL CHANNEL SECTION

(NO SCALE)

* CHANNEL BOTTOM VARIES FROM 28'-6" AT STA. 2+32 TO 14'-0" AT STA. 2+90.

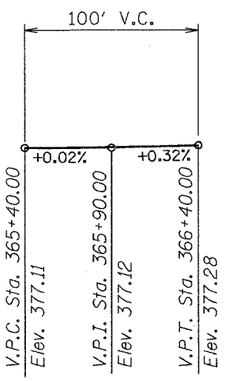
CHANNEL ALIGNMENT - COORDINATE DATA		
STATION	NORTHING	EASTING
0+00.00	414,650.99	951,385.07
0+20.13	414,639.72	951,368.40
1+01.35	414,584.05	951,309.25
2+32.05	414,465.64	951,352.92
3+09.69	414,391.20	951,231.84



PLAN

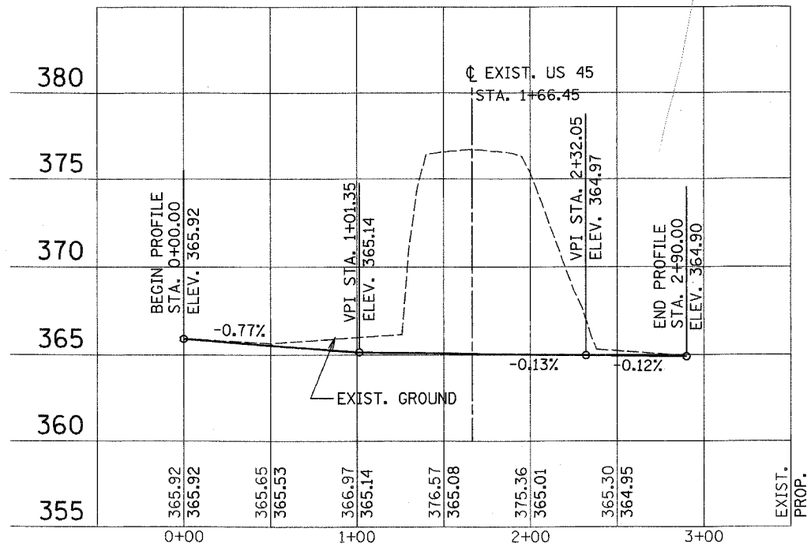
1" = 40'

- A = STA. 0+00.00, 18' RT.
- B = STA. 0+00.00, 31' LT.
- C = STA. 0+82.84, 25' RT.
- D = STA. 0+20.00, 22' RT.
- E = STA. 2+40.50, 33' LT.
- F = STA. 2+90.00, 33' LT.
- G = STA. 2+90.00, 27' RT.



PROFILE GRADE

Along ℄ of U.S. Route 45



CHANNEL PROFILE

1" = 40'

NOTES:

1. SEE SHEET 109 FOR DITCH IMPROVEMENT
2. SEE SHEET 98-104 FOR BOX CULVERT PLANS

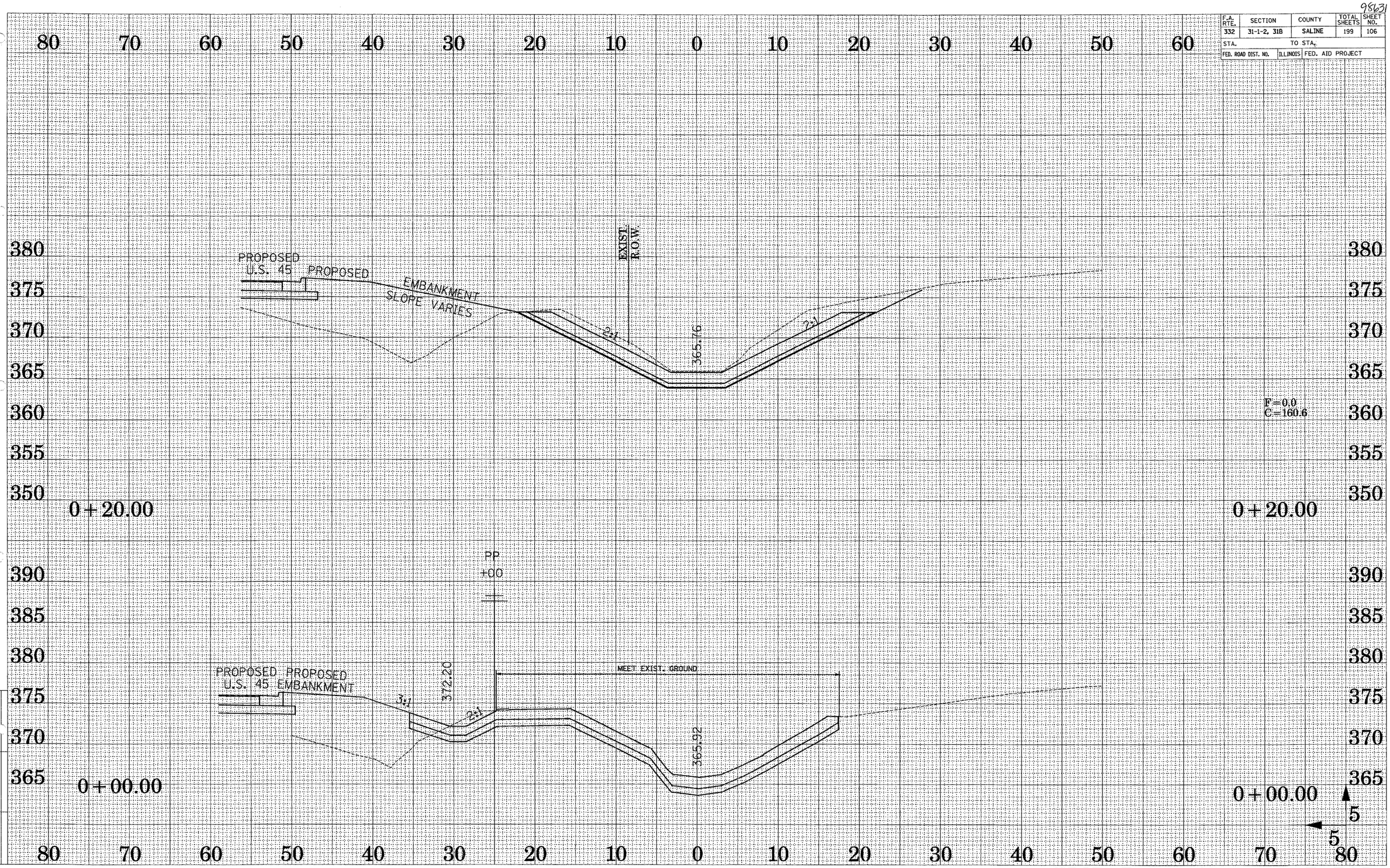
CHANNEL IMPROVEMENT
TRIBUTARY TO MIDDLE
FORK OF SALINE RIVER
SALINE COUNTY
STATION 365+86.00
STR. NO. 083-2014

DRAWN BY ...MS
CHECKED BY ...KS

My PROJECTS\06-Roadway\Construct 4\Sheets\
Active Files
Reference Files:
chd1-3586c14.dgn

98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	106
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRIBUTARY TO MIDDLE FORK
OF SALINE RIVER @ STA. 365+86.00

DRAWN BY ...Initials...
CHECKED BY ...Initials...

Reference Files:

Active File:
CH02-3526\Xsign

98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

385 380 375 370 365 360

PROPOSED U.S. 45 ℄ STA. 365+86.00

377.15

364.81

PROPOSED BOX CULVERTS 9' X 9' (3)

F=0.0
C=32.9

1+66.45

1+66.45

390 385 380 375 370 365 360 355

PROPOSED U.S. 45

PROPOSED EMBANKMENT

SLOPE VARIES

PROPOSED HEADWALL

EXIST R.O.W

365.27

2:1

F=0.0
C=200.4

0+82.84

0+82.84

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ...DJ-2...
CHECKED BY ...MBJD...

Active Files
D402-3656C4.dgn

Reference Files

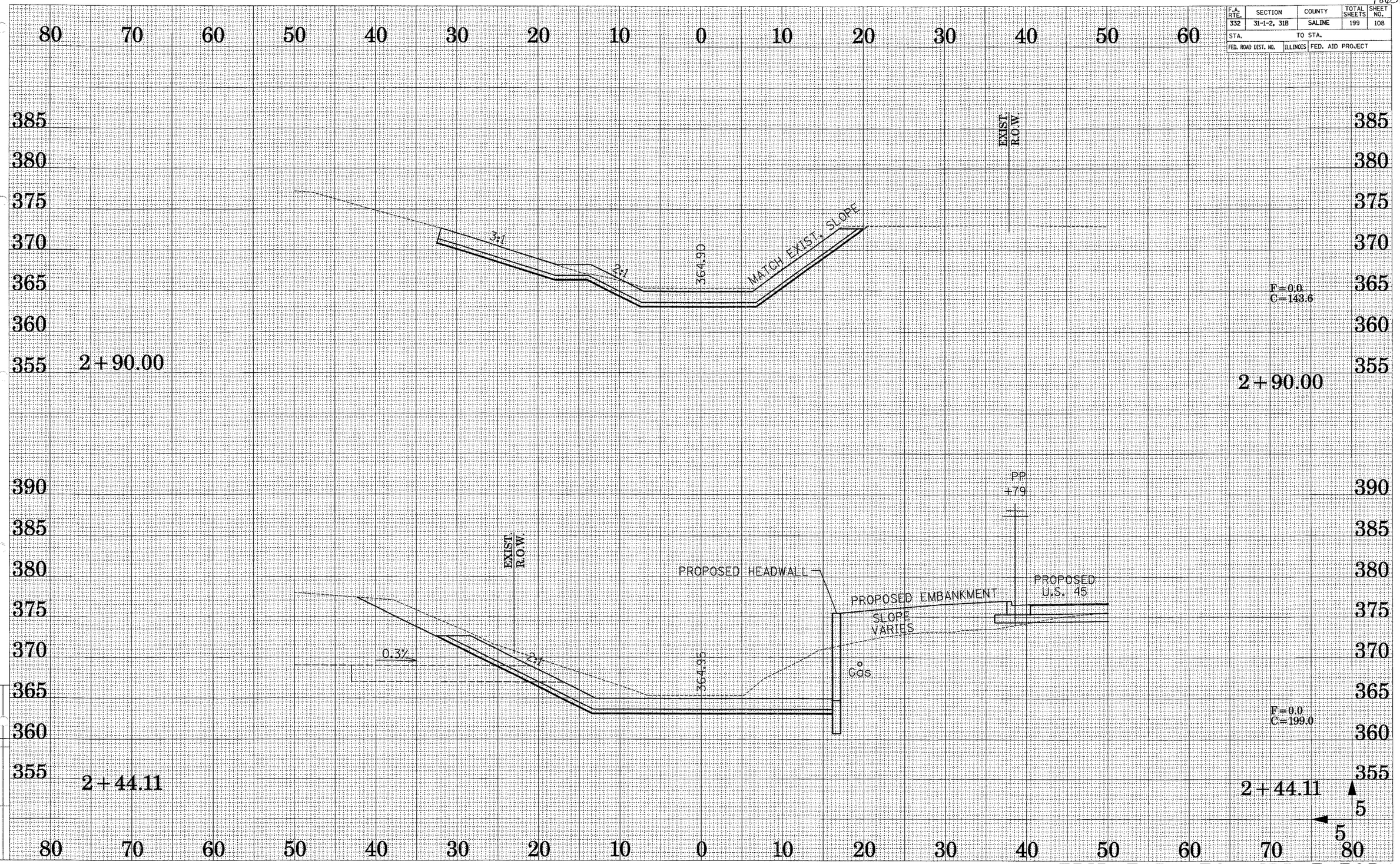
TRIBUTARY TO MIDDLE FORK
OF SALINE RIVER @ STA. 365+86.00

98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	108
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...NVA...
CHECKED BY ...MMO...

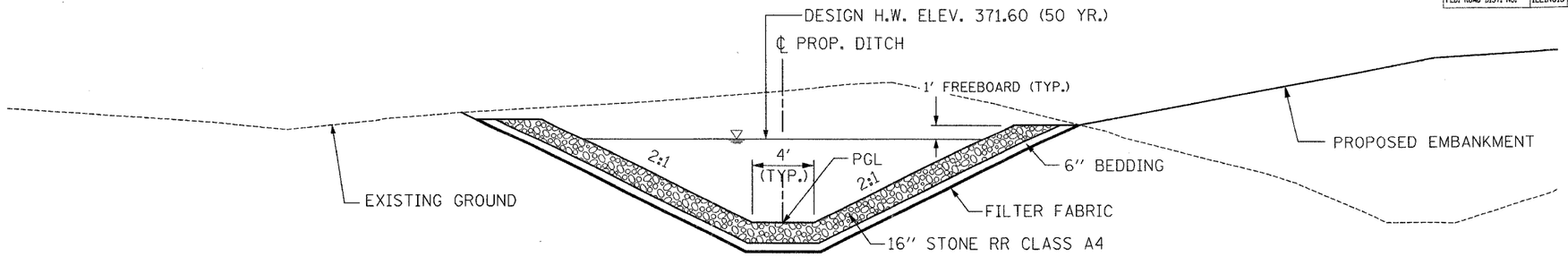
Active Files: C802-35260K.dgn
Reference Files:



TRIBUTARY TO MIDDLE FORK
OF SALINE RIVER @ STA. 365+86.00

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	109
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

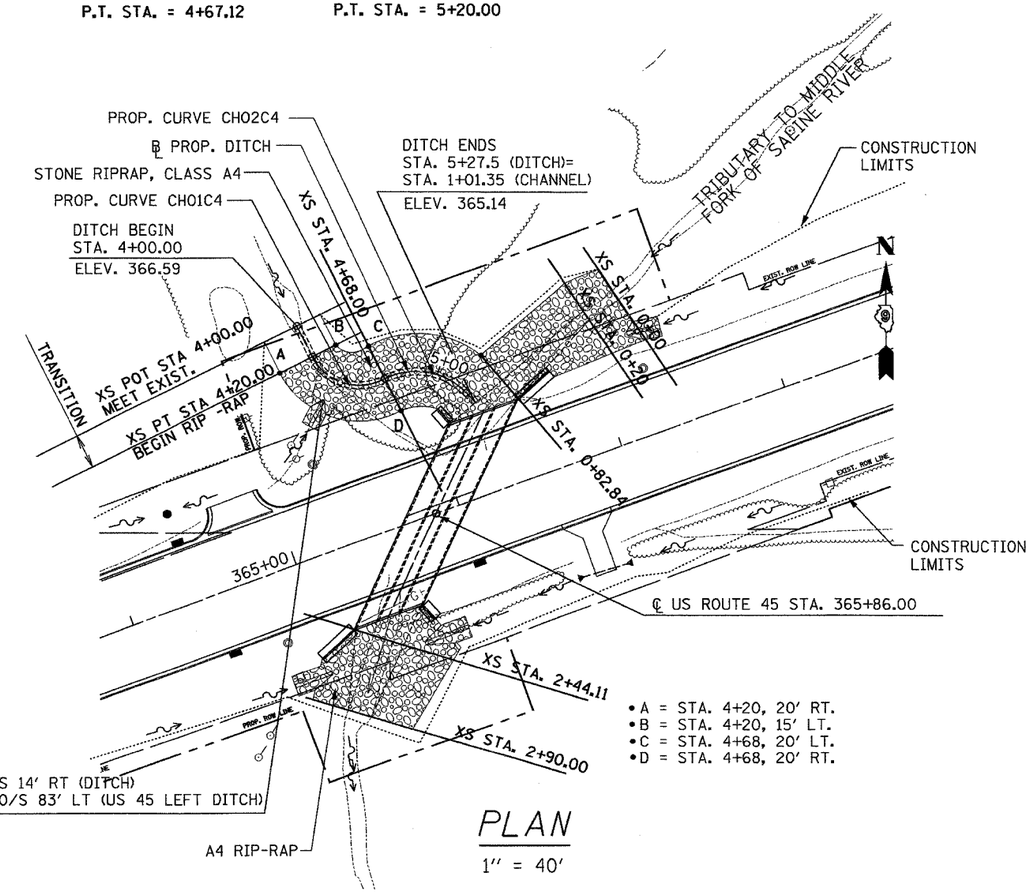


TYPICAL DRAINAGE DITCH SECTION

(NO SCALE)

PROP. CURVE CH01C4
PI STA. = 4+50.00
Δ = 90° 00′ 00″ (LT)
D = 190° 59′ 09″
R = 30.00′
T = 30.00′
L = 47.12′
E = 12.43′
P.C. STA. = 4+20.00
P.T. STA. = 4+67.12

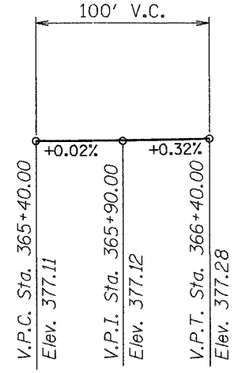
PROP. CURVE CH02C4
PI STA. = 4+98.59
Δ = 73° 19′ 46″ (RT)
D = 143° 14′ 22″
R = 40.00′
T = 29.78′
L = 51.19′
E = 9.87′
P.C. STA. = 4+68.81
P.T. STA. = 5+20.00



PLAN

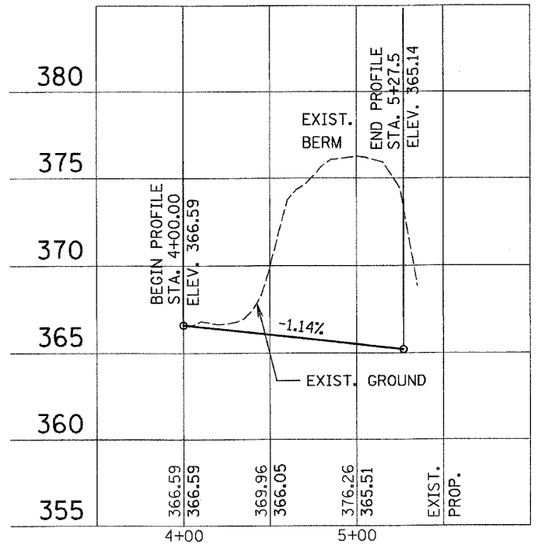
1″ = 40′

- A = STA. 4+20, 20′ RT.
- B = STA. 4+20, 15′ LT.
- C = STA. 4+68, 20′ RT.
- D = STA. 4+68, 20′ RT.



PROFILE GRADE

Along ℄ of U.S. Route 45



DRAINAGE DITCH PROFILE

1″ = 40′

NOTES:

1. SEE SHEET 105 FOR CHANNEL IMPROVEMENTS FOR THE TRIBUTARY
2. SEE SHEET 98-104 FOR BOX CULVERT PLANS

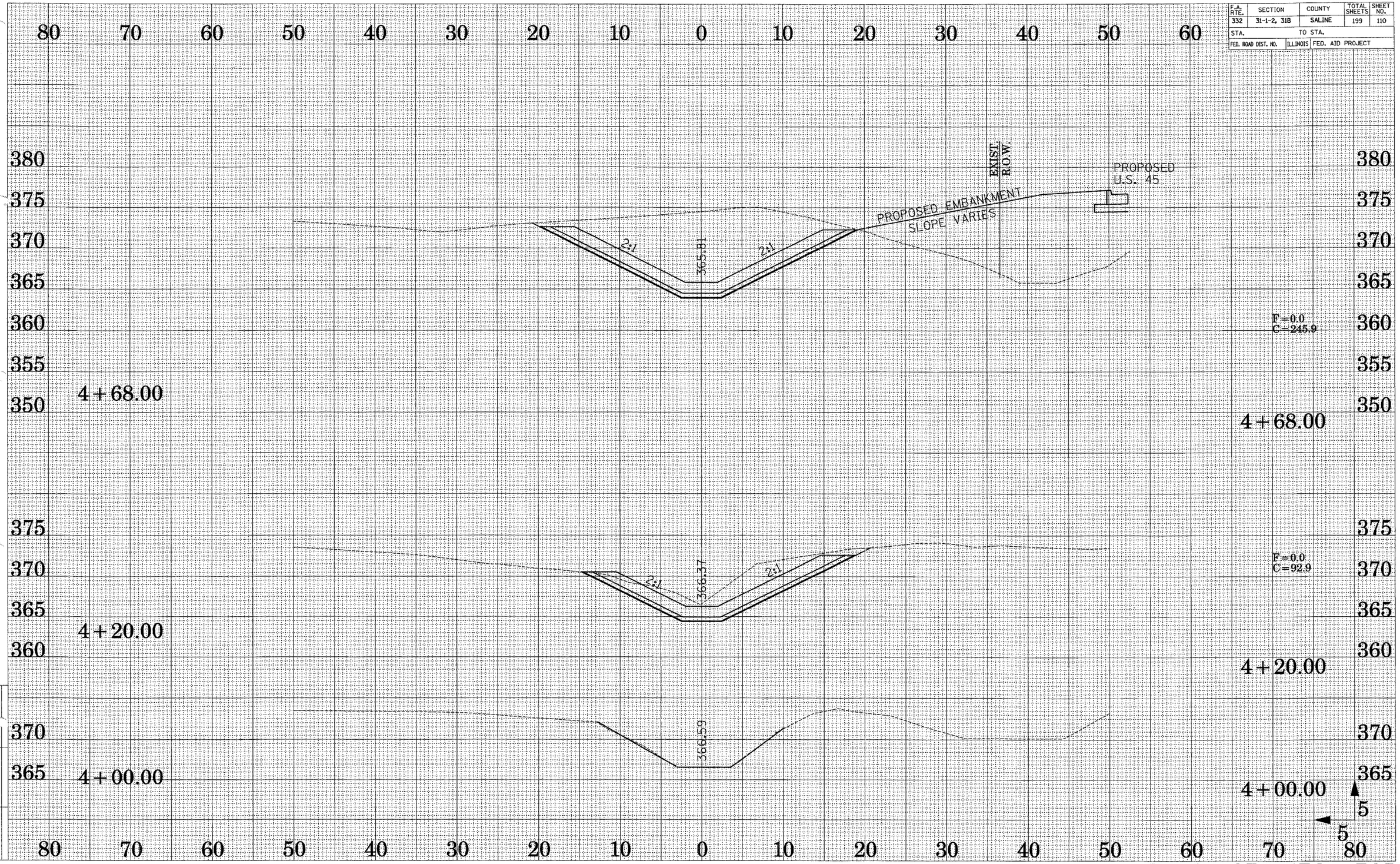
CHANNEL IMPROVEMENT
DRAINAGE DITCH
SALINE COUNTY
STATION 365+86.00
STR. NO. 083-2014

M:/PROJ/3526/Roadway/Contract 4/details/ch04-3526c4.dgn
Active Files
ReFerences Files:

DRAWN BY ...JJS...
CHECKED BY ...KJS...

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	110
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...DVJ...
CHECKED BY ...MMD...

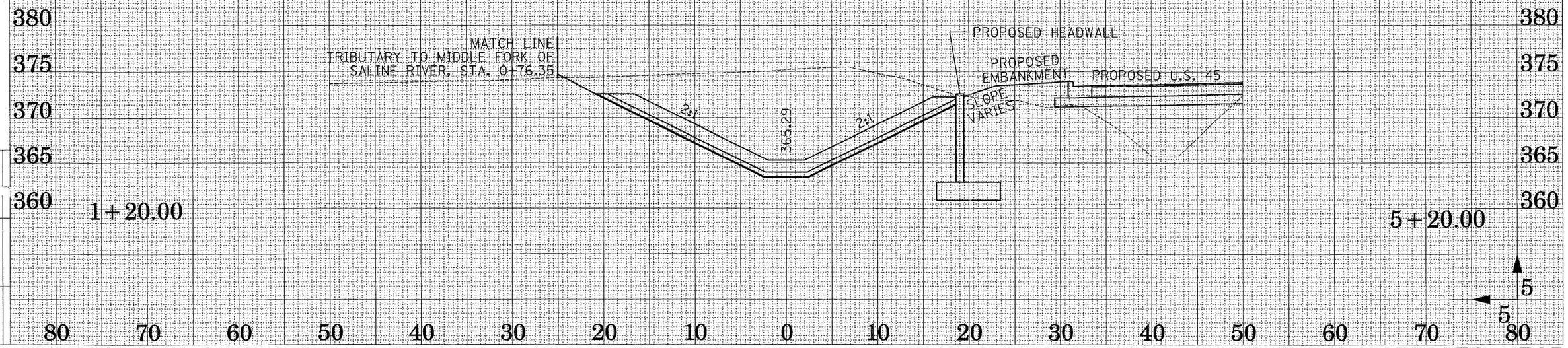
Survey Files
Reference Files
DN03_58264.dgn

DRAINAGE DITCH FOR
CHANNEL @ STA. 365+86.00

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	111
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...DW2...
CHECKED BY ...MMO...



DRAINAGE DITCH FOR
CHANNEL @ STA. 365+86.00

Active Files
D913-3526C4.dgn

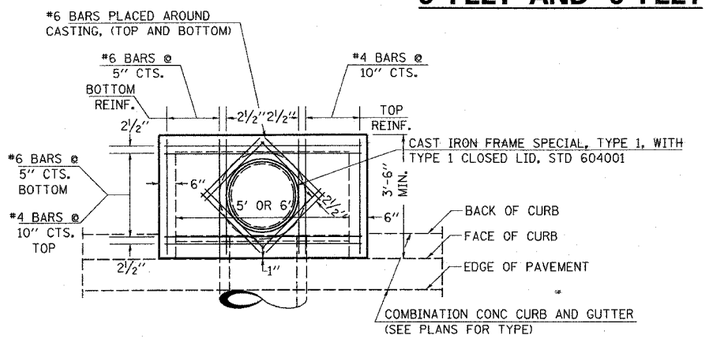
References Files

D913-3526C4.dgn 5/17/2005 3:01:37 PM

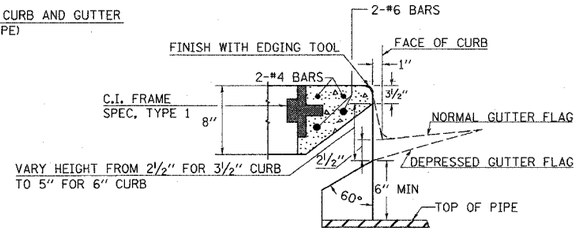
CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	112
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

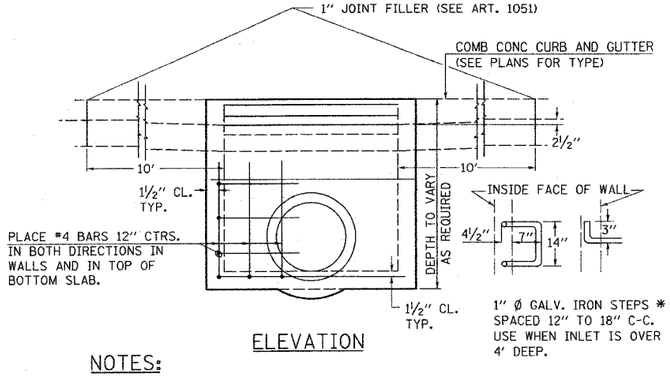
DETAILS OF INLET SPECIAL, TYPE 3, 5 FEET AND 6 FEET



PLAN



SECTION AT WEIR



1" Ø GALV. IRON STEPS ** SPACED 12" TO 18" C-C. USE WHEN INLET IS OVER 4' DEEP.

ELEVATION

DESIGN	PIPE DIA	"D"
A	18"&LESS	2'-6"
B	21"&24"	3'-0"
C	27"&30"	3'-7"
D	33"&36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"

NOTES:

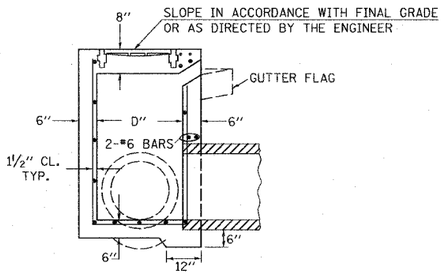
PROVIDE 1½" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS S1 CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2½" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **INLET, SPECIAL, TYPE 3, 5 FEET** OR **INLET, SPECIAL, TYPE 3, 6 FEET** WHICH PRICE **SHALL INCLUDE THE CAST IRON FRAME, SPECIAL,** TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

**THE GALVONIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN, MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".



SECTION

NOTE TO DESIGNER:

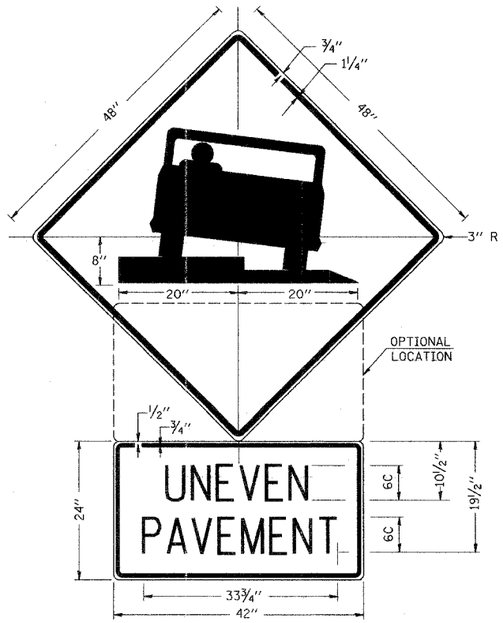
WHEN USING THIS STANDARD THE DESIGNER SHOULD ALSO CHECK BDE SPECIAL PROVISION 419 "PRECAST CONCRETE PRODUCTS".

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	1-19-99
REVISED	5-6-04

STD. 9-1

UNEVEN PAVEMENT SIGN

W8-9a-(0)-48



COLORS:
LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR WILL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR WILL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY WILL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS WILL BE INCLUDED IN THE CONTRACT.

REVISIONS	
DRAWN	2-15-89
REVISED	4-6-93

STD 9-41

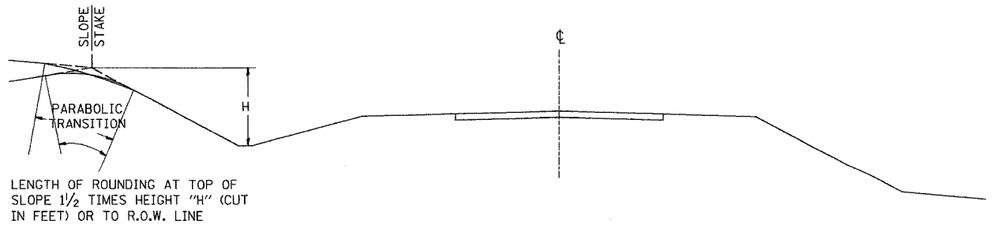
DRAWN BY ...JS...
CHECKED BY ...JR...

M:/PROJ3626/ROADWAY/CONTRACT 4/STANDARDS/
Active Files Reference Files
std01-3626c4.dgn de1board-3626c4.dgn

DETAILS: INLET SPECIAL, TYPE 3, 5 FEET AND 6 FEET, UNEVEN PAVEMENT SIGN

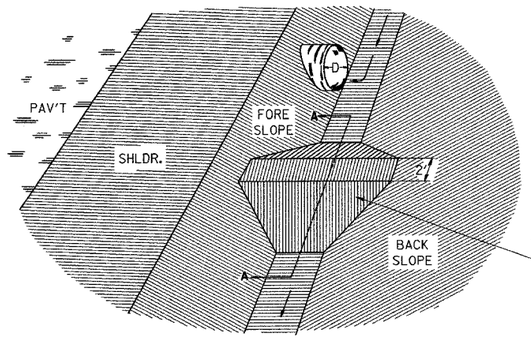
CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	113
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



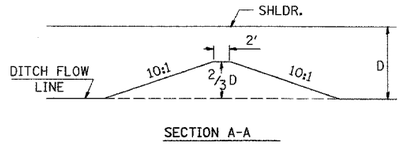
LENGTH OF ROUNDING AT TOP OF SLOPE 1½ TIMES HEIGHT "H" (CUT IN FEET) OR TO R.O.W. LINE

SECTION SHOWING TRANSITIONS OF PROPOSED SLOPES



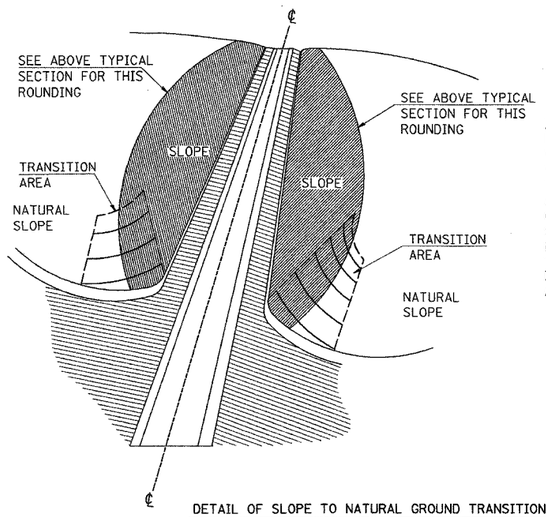
DITCH PLUG DETAIL

NOTE: DITCH PLUG TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER, INCLUDED IN THE EARTH EXCAVATION



SECTION A-A

EARTH DITCH PLUG TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND TO BE CONSIDERED INCLUDED IN THE EARTH EXCAVATION.



DETAIL OF SLOPE TO NATURAL GROUND TRANSITION

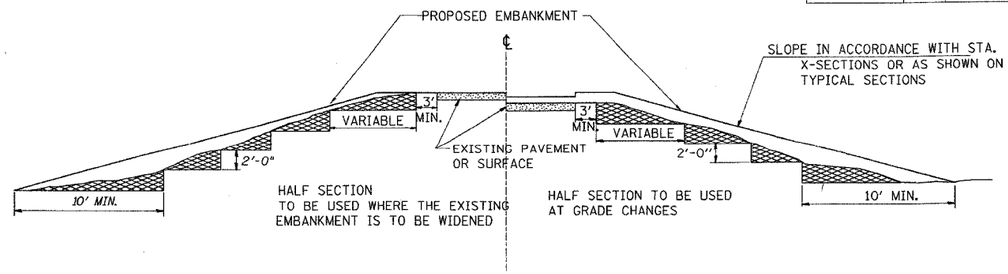
TRANSITION GRADING - TRANSITION GRADING BETWEEN CUT AND FILL SLOPES AND BETWEEN CUT SLOPES AND NATURAL GROUND WILL BE REQUIRED ON THIS IMPROVEMENT. THE TRANSITION WILL BE ROUNDED AND STREAMLINED IN ORDER TO BLEND THE CUT SLOPES AND THE FILL SLOPES INTO EACH OTHER AND INTO THE ADJACENT TERRAIN. THE SLOPES AS SHOWN ON THE CROSS-SECTIONS IN THESE PLANS MAY BE VARIED SOMEWHAT IN THE TRANSITION AREAS AS DIRECTED BY THE ENGINEER IN ORDER TO MEET THIS GRADING REQUIREMENT. THE QUANTITIES OF EARTH EXCAVATION INVOLVED ARE INCLUDED IN THE BALANCE QUANTITIES SHOWN ON THE PLANS AND NO OTHER COMPENSATION WILL BE ALLOWED.

REVISIONS

REDRAWN	2-15-89

STD. 9-17

TYPICAL SECTIONS OF TRANSITIONS OF SLOPES AND INCIDENTAL GRADING



HALF SECTION TO BE USED WHERE THE EXISTING EMBANKMENT IS TO BE WIDENED

HALF SECTION TO BE USED AT GRADE CHANGES

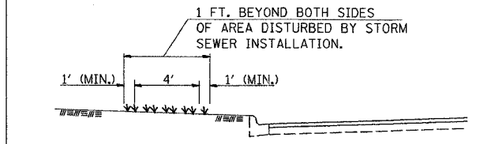
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

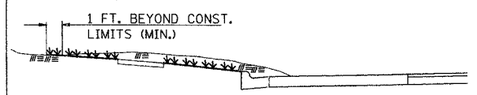
REVISIONS

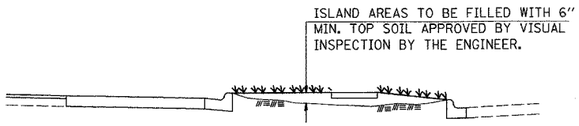
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99

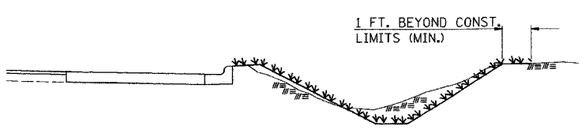
STD. 9-16

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL









GENERAL NOTES

SEEDING, CLASS 1B AND MULCH, METHOD 2 WILL BE USED BEHIND ALL CURB AND GUTTER TO 1 FT. BEYOND CONSTRUCTION LIMITS.

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS WILL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE WILL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE WILL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS WILL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

INDICATES LIMITS OF SEEDING & MULCHING

REVISIONS

DRAWN	6-15-89
REVISED	8-15-94

STD. 9-52

SEEDING & MULCHING

DRAWN BY ---JS---
CHECKED BY ---JN---

M:/PROJ/3526/ROADWAY/CONTRACT 4/STANDARDS/

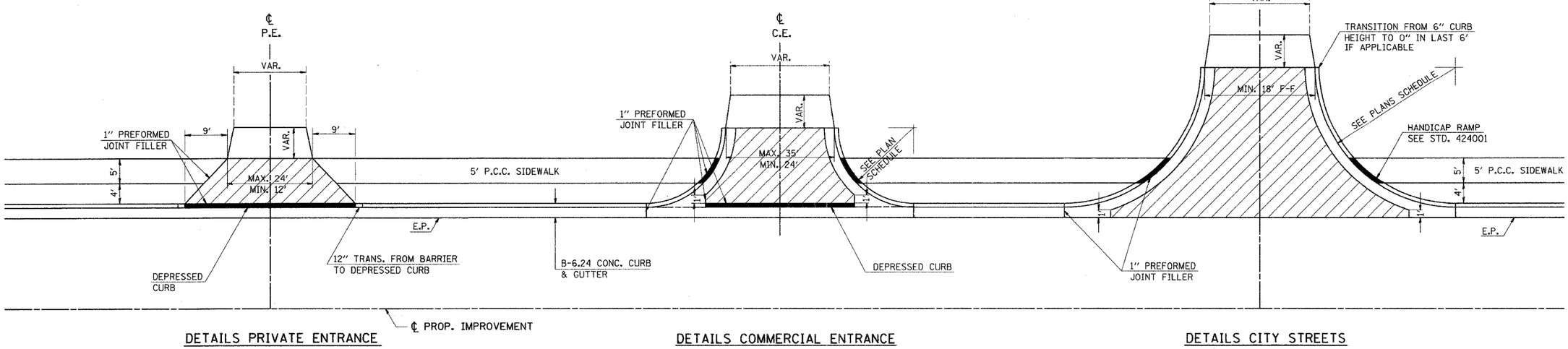
Active Files	Reference Files:
st002-3526c4.dgn	dsthord-3526c4.dgn

DETAILS: SLOPES & INCIDENTAL GRADING, STEP CONSTRUCTION, SEEDING & MULCHING

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	114
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

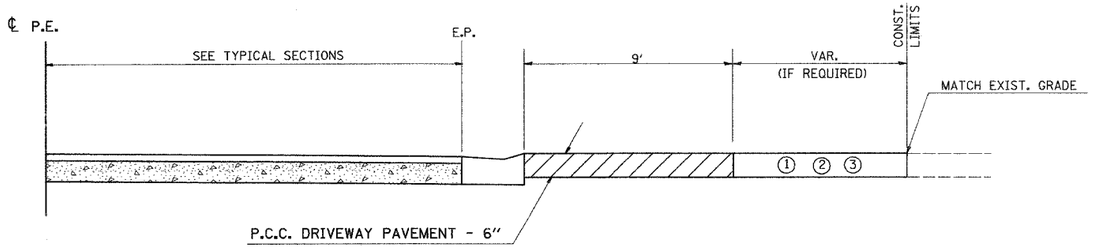
URBAN SIDEROAD & ENTRANCE DETAILS



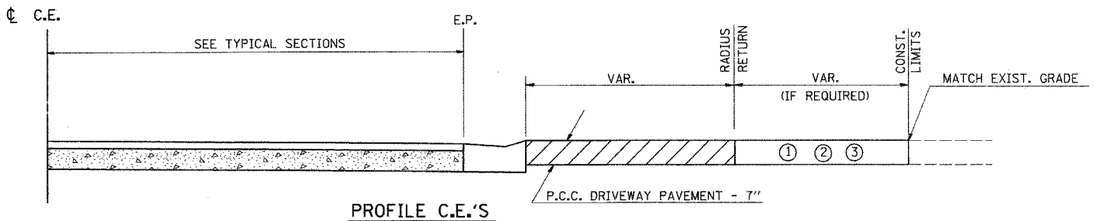
DETAILS PRIVATE ENTRANCE

DETAILS COMMERCIAL ENTRANCE

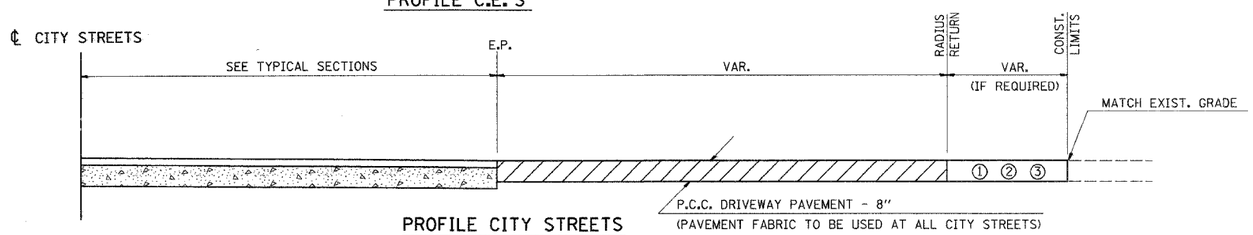
DETAILS CITY STREETS



PROFILE P.E.'S



PROFILE C.E.'S



PROFILE CITY STREETS

GENERAL NOTES

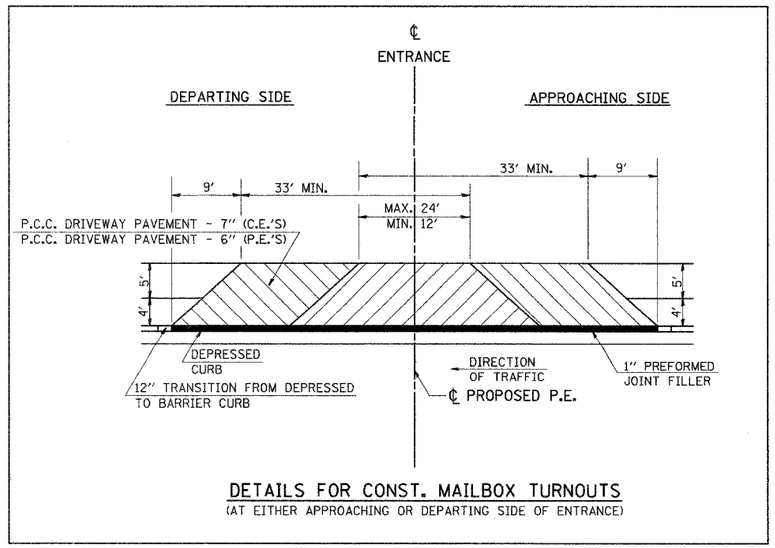
1. SEE PLAN SCHEDULES FOR DIMENSIONS AND QUANTITIES.
2. SEE CROSS SECTIONS FOR PROPOSED PROFILE OF SIDEROAD AND ENTRANCES.
3. IN GENERAL, WIDTH TRANSITION TAPER RATES ARE TO BE 5:1 FOR ENTRANCES, AND 10:1 FOR CITY STREETS.
4. THE SAWING OF ALL JOINTS IN P.C.C. DRIVEWAY PAVEMENT AT LOCATIONS DESIGNATED BY THE ENGINEER, WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE P.C.C. DRIVEWAY PAVEMENT.

LEGEND

① EXISTING AGGREGATE SURFACE:
CONSTRUCT AGGREGATE SURFACE CSE, TYPE A WEDGE TO MATCH EXISTING GRADE. USE 6" MIN. (8" MIN. FOR CITY STREETS) THICKNESS FOR ANY REQUIRED WIDENING.

② EXISTING BITUMINOUS SURFACE:
USE 2" MIN. BITUMINOUS RESURFACING ON 4" MIN. (6" MIN. FOR CITY STREETS) AGGREGATE BASE COURSE.

③ EXISTING CONCRETE SURFACE:
P.C.C. DRIVEWAY PAVEMENT 6" P.E.'S
P.C.C. DRIVEWAY PAVEMENT 7" C.E.'S
P.C.C. DRIVEWAY PAVEMENT 8" CITY STREETS



DETAILS FOR CONST. MAILBOX TURNOUTS
(AT EITHER APPROACHING OR DEPARTING SIDE OF ENTRANCE)

REVISIONS

DRAWN	10-22-90
REVISED	09-06-91
REVISED	10-21-91

STD. 9-84

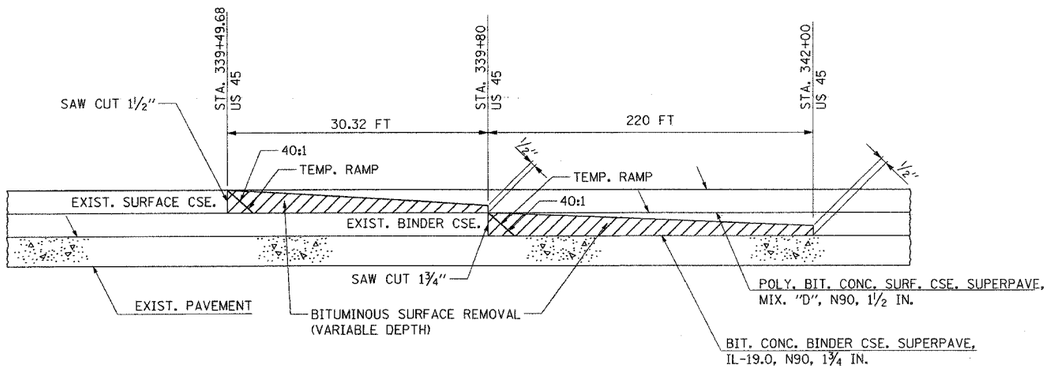
DRAWN BY JS
CHECKED BY JN

M:/***/D3525/ROADWAY/CONTRACT 4/STANDARDS/
424001-04 Handicap Ramp Detail 7 Files
d3-1502-2-352654.dgn
d3-1503-352654.dgn

DETAILS: URBAN SIDEROADS AND ENTRANCES

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	115
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

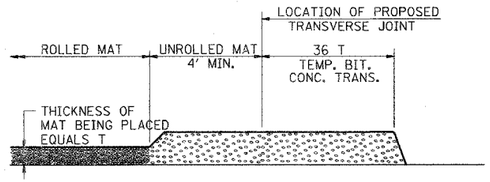


TO BE USED: STA. 339+49.68 TO 339+80
STA. 339+80 TO 342+00

NOTE: DETAIL ONLY PERTAINS TO ▨ AREA.

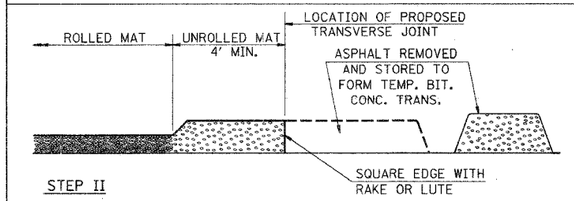
▨ - BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

U.S. RTE. 45 JOINT AT STA. 339+49.68



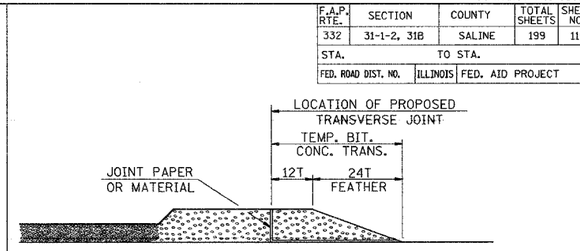
STEP I

1. PLACE BITUMINOUS MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



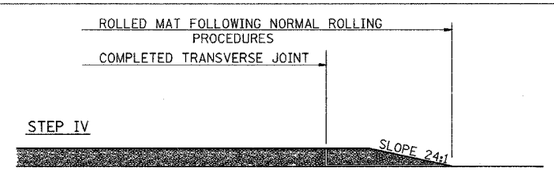
STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY BITUMINOUS CONCRETE TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



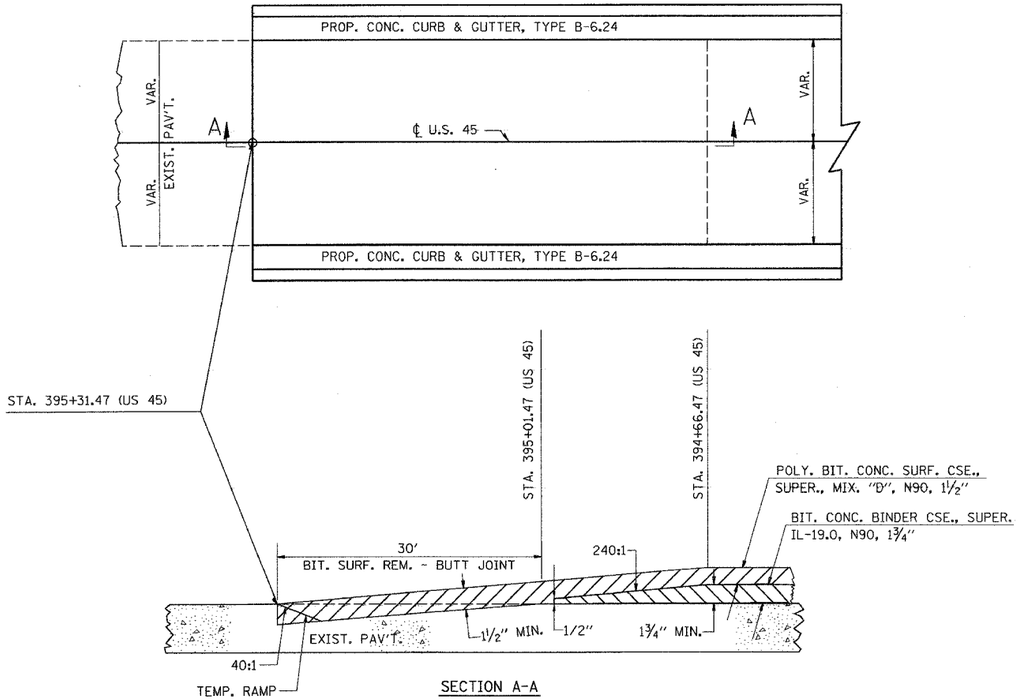
1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL BE PAID FOR IN ACCORDANCE WITH ART. 406.24 OF THE STD. SPECS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-16-94

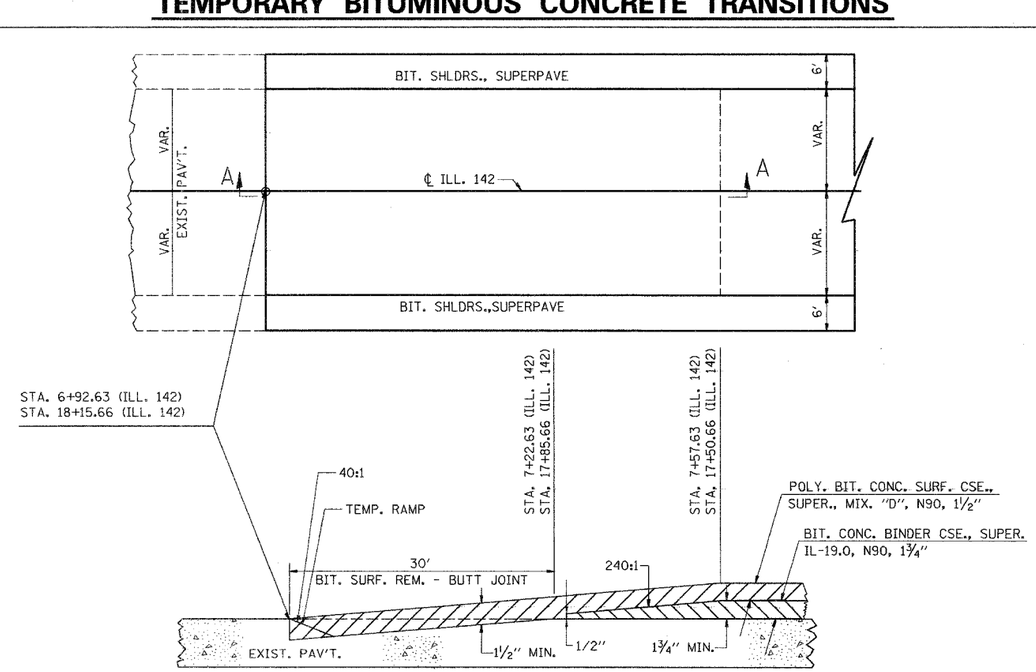
STD. 9-26

TEMPORARY BITUMINOUS CONCRETE TRANSITIONS



SECTION A-A

BUTT JOINT - U.S. RTE. 45



SECTION A-A

BUTT JOINT - ILL. RTE. 142/STATE ST.

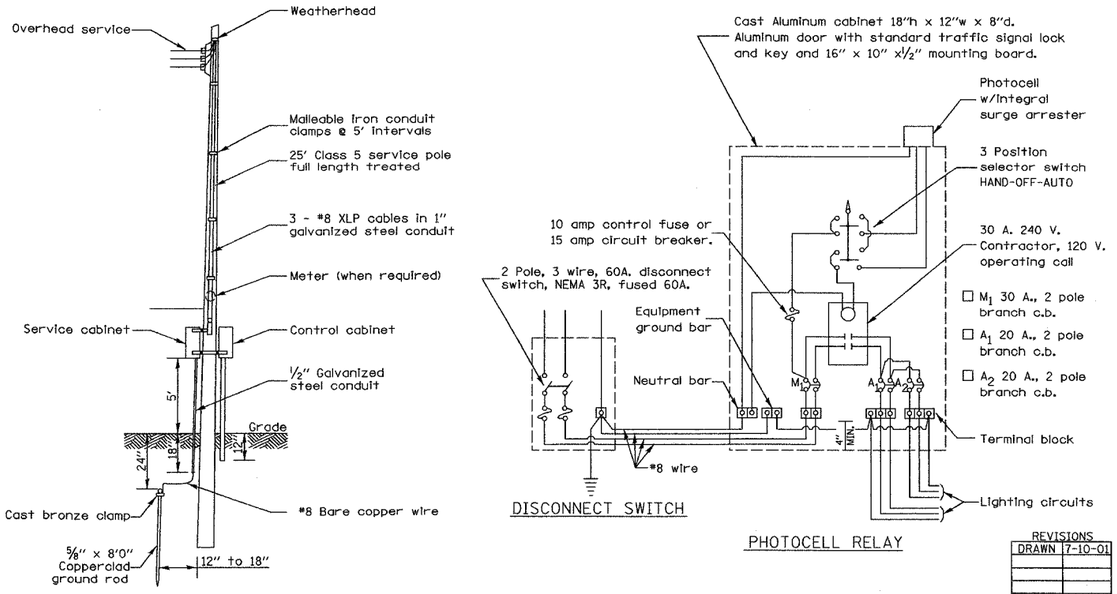
DETAILS: U.S. RTE. 45 JOINT AT 339+49.68, BUTT JOINTS, TEMPORARY BITUMINOUS TRANSITIONS

M:/PROJ/SSGC/ROADWAY/CONTRACT #/STANDARDS/
Active Files: Reference Files:
s1506-3526c4.dgn d:arbor-d-3526c4.dgn
DRAWN BY ---JS---
CHECKED BY ---JN---

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	116
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROL INSTALLATION SERVICE POLE MOUNTED



REVISIONS

DRAWN	7-10-01

STD 9-110

6' x 6' DETECTOR LOOPS

NOTES

(APPLIES TO 6' x 6' LOOPS ONLY)

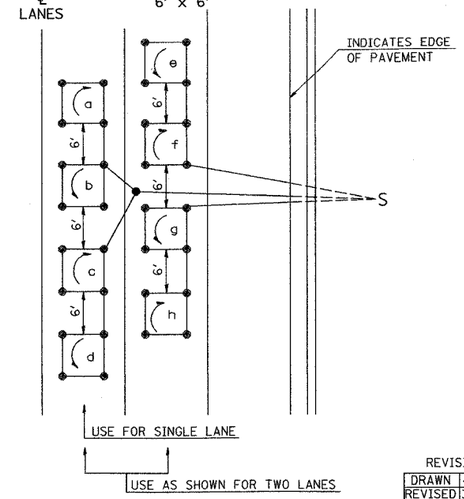
1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION T418 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
3. IF LOOPS ARE TO BE COVERED WITH SURFACE COURSE, THE 2" DRILLED CORES SHALL BE REPLACED WITH A 45 DEGREE SAWED SLOT ON EACH CORNER.

LOOP LEGEND

- CLOCKWISE ROTATION FOR LOOP WIRES
- COUNTERCLOCKWISE ROTATION FOR LOOP WIRES
- S — INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
- ● — INDICATES 2" CORE-DRILL

LOOP LAYOUT

ALL LOOPS ARE 6' x 6'



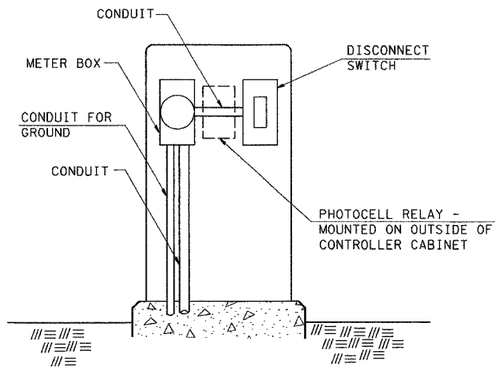
REVISIONS

DRAWN	4-17-92
REVISED	3-27-96

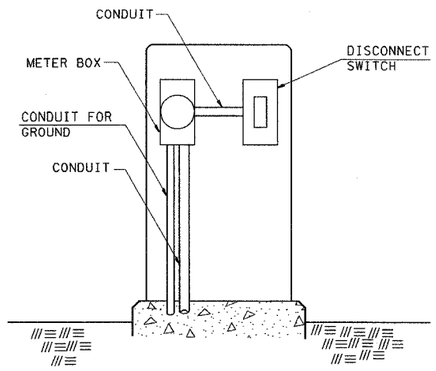
STD 9-92

SERVICE INSTALLATION DETAILS

MATERIAL AND SIZE OF CONDUIT AND CABLE AS REQUIRED BY UTILITY COMPANY



SERVICE INSTALLATION (SPECIAL) WITH PHOTOCELL RELAY



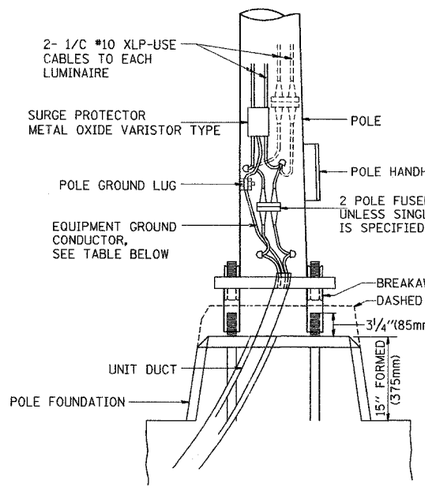
SERVICE INSTALLATION (SPECIAL)

REVISIONS

DRAWN	1-31-90
REVISED	2-24-92

STD 9-68

POLE BASE WIRING & LUMINAIRE MOUNTING



POLE BASE WIRING

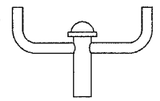
EQUIPMENT GROUND-TABLE

BREAKER SIZE	CONDUCTOR SIZE
30 AMP.	#10 COPPER
40 AMP.	#10 COPPER
60 AMP.	#10 COPPER
100 AMP.	#8 COPPER

NOTES:

A. ON POLES WITH TWO LUMINAIRES, EACH LUMINAIRES SHALL HAVE A SEPARATE FUSED DISCONNECT

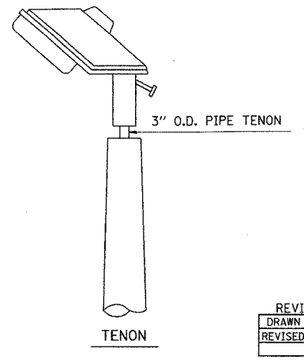
B. INSTALLATION INSTRUCTIONS:
SCREW COUPLINGS ON TO ANCHOR BOLTS TO END OF THREADS, LEVEL COUPLINGS, VERY IMPORTANT, AS COUPLINGS WILL BECOME OVERSTRESSED AND EITHER CRACK OR STRIP THREADS INSIDE COUPLING.



TWIN TENON

"INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 3/64"(8.3mm) DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL 1/4" (6.3mm) TO 3/8" (9.5mm) TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS.

POLE SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR 80 M.P.H. (128.7km./h) WIND LOADING AND 90 LB. (40.9kg) 4.0 SQ. FT. (3.7m²) E.P.A. LUMINAIRE.



REVISIONS

DRAWN	3-8-95
REVISED	9-7-99

STD. 9-102

DRAWN BY ...JS...
CHECKED BY ...JK...

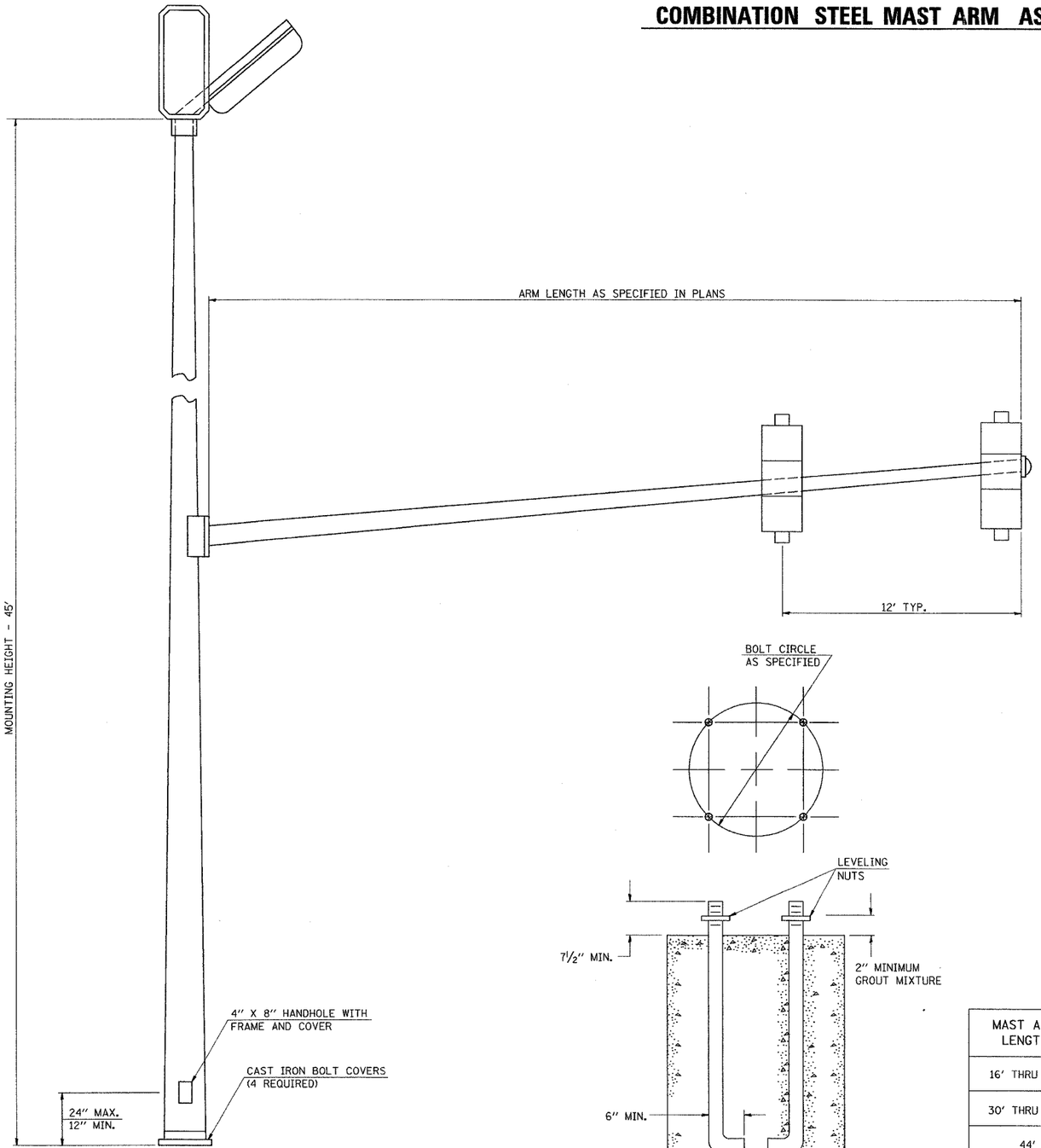
M:/PROJECTS/ROADWAY/CONTRACT 1/STANDARDS/
Active Files: Reference Files:
ctstd07-3328c4.dgn | ctstbord-3328c4.dgn | R/W Standards

DETAILS: OUTDOOR LIGHTING CONTROL CABINET, SERVICE INSTALLATION, DETECTOR LOOPS, POLE BASE WIRING & LUMINAIRE MOUNTING

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	117
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMBINATION STEEL MAST ARM ASSEMBLY AND POLE



GENERAL NOTES

1. THE COMBINATION MAST ARM ASSEMBLY AND POLE SHALL BE CONSTRUCTED WITH ONE PIECE MAST ARMS AND POLE OR OTHER EQUIVALENT SECTIONAL DESIGN.
2. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING DESIGN MATERIALS, THICKNESS OF SECTIONS, WELD SIZES, AND ANCHOR BOLTS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THESE DRAWINGS SHALL BE AT LEAST 17 INCHES BY 22 INCHES IN SIZE AND OF ADEQUATE QUALITY FOR MICROFILMING.
3. THE TYPE OF SIGNAL HEAD MOUNTING BRACKET TO BE USED SHALL BE APPROVED BY THE ENGINEER.
4. THE SIGNAL HEAD (INCLUDING BACKPLATE WHEN USED) SHALL NOT BE LESS THAN 16'-0" OR MORE THAN 18'-0" ABOVE THE CROWN OF PAVEMENT.
5. THE MANUFACTURER WILL BE ALLOWED TO SLOT THE BASE PLATE IN WHICH OTHER BOLT CIRCLES MAY FIT, PROVIDING THAT THESE SLOTS DO NOT OFFSET THE INTEGRITY OF THE POLE.
6. COMBINATION MAST ARM ASSEMBLIES AND POLES SHALL NOT BE INSTALLED WITHOUT THE LUMINAIRE.
7. THE ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 706.09 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MAST ARM LENGTH	BOLT CIRCLE	ANCHOR BOLT SIZE
16' THRU 28'	15"	1½" X 60"
30' THRU 42'	18"	1½" X 60"
44'	18"	1¾" X 90"

DRAWN BY ...JS...
CHECKED BY ...JN...

M:/PRO.1536/ROADWAY/CONTRACT 4/STANDARDS/
Active Files: str08-352604.dgn
References Files: detboard-3536a4.dgn

REVISIONS

DRAWN	2-13-90
REVISED	8-16-94

STD 9-70

DETAILS: COMBINATION STEEL MAST ARM ASSEMBLY AND POLE

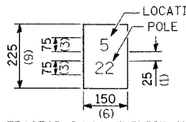
CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	118
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POLE STANDARDS

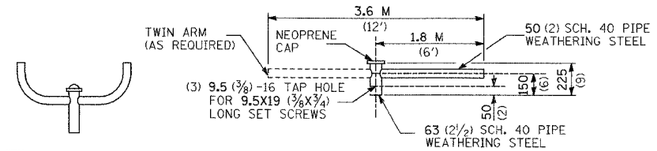
"INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 8.3 (5/16) DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF-TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL (1/4 TO 3/8) TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS."

POLE SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR 128.72 KM (80 MPH) WIND LOADING AND 40.82 KG (90 LB.), .37 M^2 (4.0 SQ. FT.) E.P.A. LUMINAIRE.



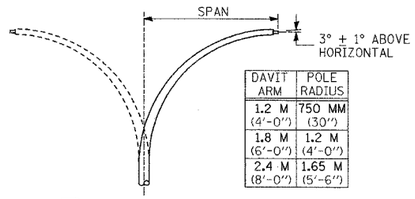
THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 75 (3) SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 719.11 OF THE STANDARD SPECIFICATIONS, APPROXIMATEY 180 (7) ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 2319.



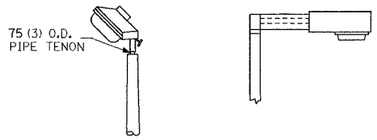
☒ TWIN TENON ☐ TENON MOUNT BRACKET ARM

NOTE: SINGLE OR TWIN ARM ASSEMBLY SHALL BE TILTED 3° ABOVE HORIZONTAL.

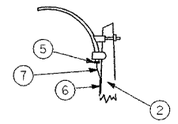


DAVIT ARM	POLE RADIUS
1.2 M (4'-0")	750 MM (30")
1.8 M (6'-0")	1.2 M (4'-0")
2.4 M (8'-0")	1.65 M (5'-6")

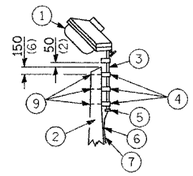
☐ DAVIT ARM (AND OR)
☐ DAVIT ARM-TWIN



☒ TENON ☐ SHORT BRACKET

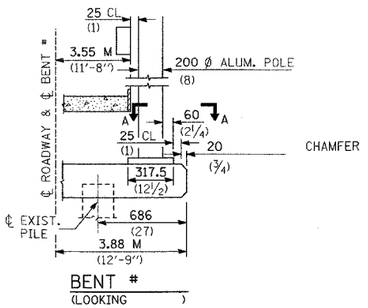


☐ MAST ARM



☐ TENON

1. LUMINAIRE
2. WOOD POLE, CLASS 3 OR BETTER
3. 63 (2 1/2) GALV. STEEL CONDUIT
4. SINGLE OFFSET POLE BAND
5. CONDUIT BUSHING
6. CABLE CLAMPS ON 600 (24) CENTERS
7. 2/C #12 TYPE USE CABLE
8. 25 (1) GALV. STEEL CONDUIT 3.0 M (10') IN LENGTH
9. 16 (5/8) Ø HOT DIPPED GALVANIZED BOLT WITH FLAT WASHER & LOCKNUT (3 REQ'D)
10. CONDUIT CLAMPS ON 900 (36) CENTERS
11. UNIT DUCT
12. THREADED REDUCER
13. "C" CONDULET, THREADED
14. 40 (1 1/2) GALV. STEEL CONDUIT FOR 1 UNIT DUCT OR 75 (3) GALV. STEEL CONDUIT FOR 2 OR 3 UNIT DUCTS.



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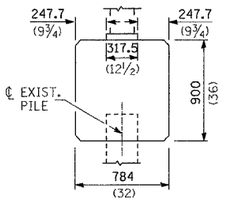
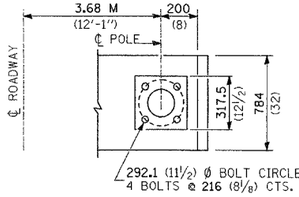
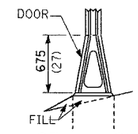


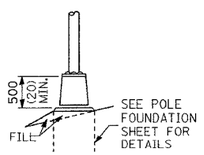
☐ BRIDGE PIER MOUNT



SECTION A-A

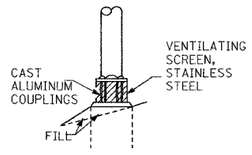


☐ STAINLESS STEEL FLAIR BASE

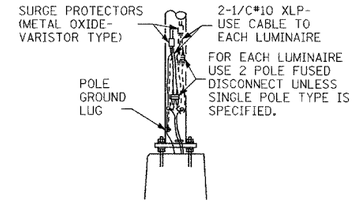


☐ TRANSFORMER BASE

☐ FRANGIBLE

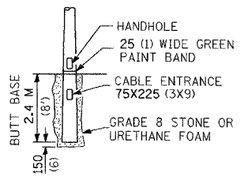


☐ BREAKAWAY COUPLING

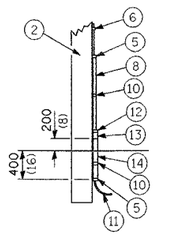


☒ ANCHOR

☒ METAL OR ☐ CONCRETE



☐ BUTT BASE



DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED

☐ POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 M (65')	3.6 M (12')
18.0 M (60')	3.0 M (10')
16.8 M (55')	2.7 M (9')
16.0 M (50')	2.4 M (8')
13.7 M (45')	2.1 M (7')
12.0 M (40')	2.0 M (6.5')
10.7 M (35')	1.8 M (6')
9.0 M (30')	1.7 M (5.5')

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

DRAWN BY ...JS...
CHECKED BY ...JA...

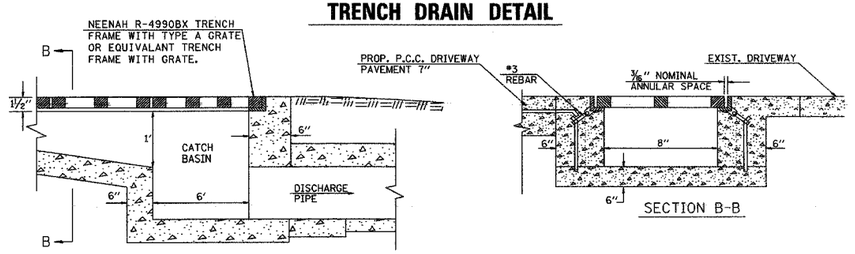
M:/PROJ/3526/ROADWAY/CONTRACT 4/STANDARDS/
Active Files | Reference Files
standards-3526c4.dgn | default-3526c4.dgn

DETAILS: POLE STANDARDS

CONTRACT NO. 98631

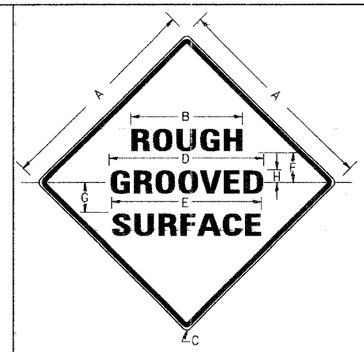
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	119
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRENCH DRAIN DETAIL



NOTE:
THE COST OF CONSTRUCTING THE TRENCH AND THE TRENCH FRAME AND GRATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TRENCH FRAMES AND GRATES.

TRENCH DRAIN WITH GRATED COVER



COLORS:
LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

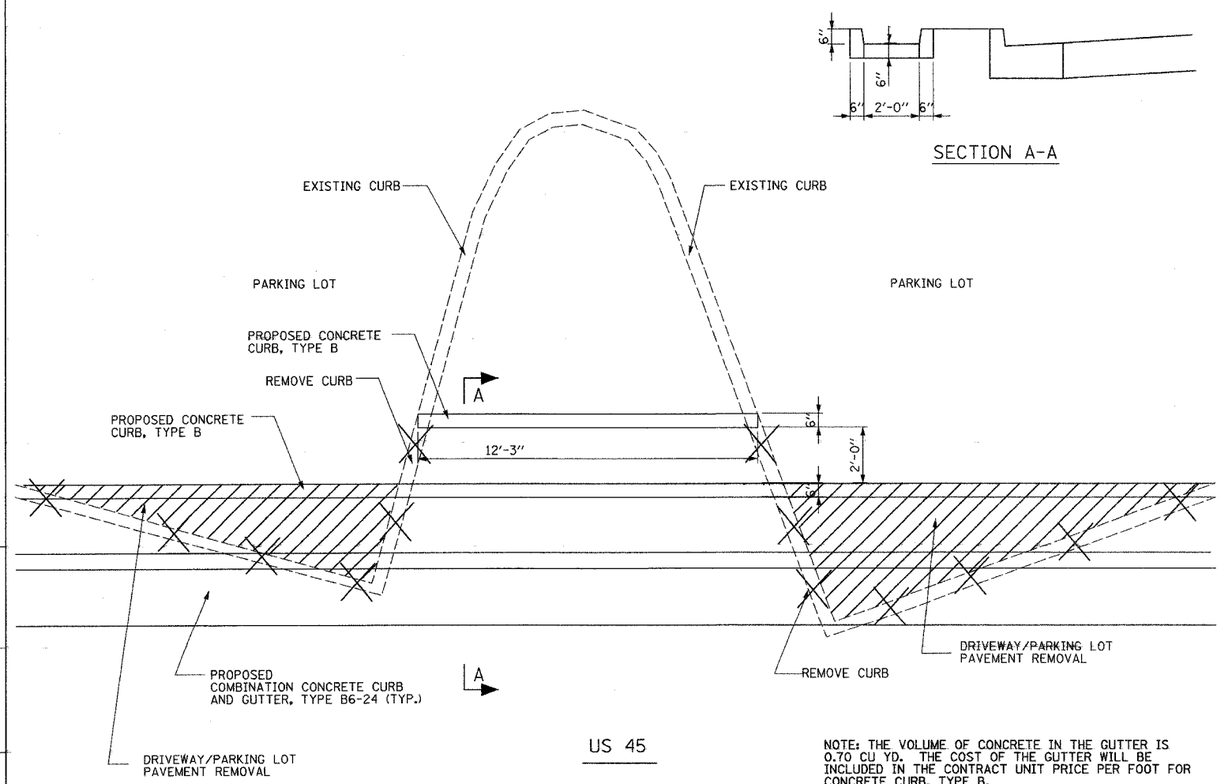
REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93

STD. 9-39

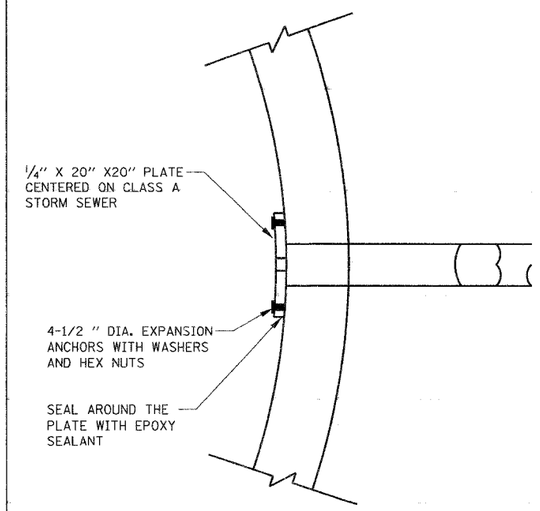
ILLINOIS STANDARD
W8-1106

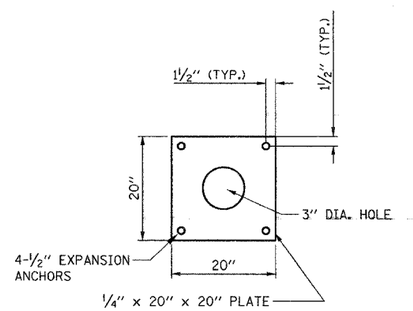
CONCRETE CURB TYPE B DETAIL

STATION 352+42.7 TO STATION 352+85.60



NOTE: THE VOLUME OF CONCRETE IN THE GUTTER IS 0.70 CU YD. THE COST OF THE GUTTER WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR CONCRETE CURB, TYPE B.





NOTE: PLATE SHALL BE CURVED TO MATCH THE INSIDE RADIUS OF THE STRUCTURE.

DRAINAGE RESTRICTOR DETAIL RT. STA. 385+36

NOTE: THE RESTRICTOR PLATE AND FASTENERS SHALL BE FABRICATED IN STAINLESS STEEL OR DUCTILE IRON.

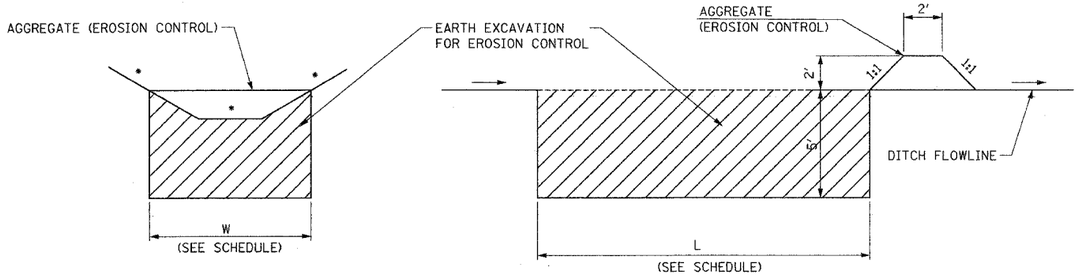
DRAWN BY ...JS...
CHECKED BY ...JA...

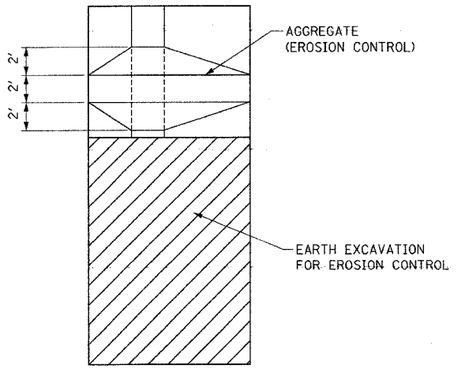
/PROJ3526/ROADWAY/CONTRACT 4/STANDARDS/
Active Files: References Files:
std11-3526c4.dgn detboard-3526c4.dgn

DETAILS: ILLINOIS STANDARD W8-1106, DRAINAGE RESTRICTOR, TRENCH DRAIN WITH GRATED COVER, CONCRETE CURB TYPE B DETAIL (STA. 352+42.7 TO STA. 352+85.6)

CONTRACT NO. 98631

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	120
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





* SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH WIDTHS.

SEDIMENT BASIN DESIGN

STATION	LENGTH (FT)	WIDTH (FT)	EXCAVATION (CY)	AGGREGATE (TON)
RIGHT (C/L US 45)				
363+70	72	10	141	5.4

STATION	LENGTH (FT)	WIDTH (FT)	EXCAVATION (CY)	AGGREGATE (TON)
LEFT (C/L US 45)				
363+70	72	10	141	5.4
TOTAL			282	10.8

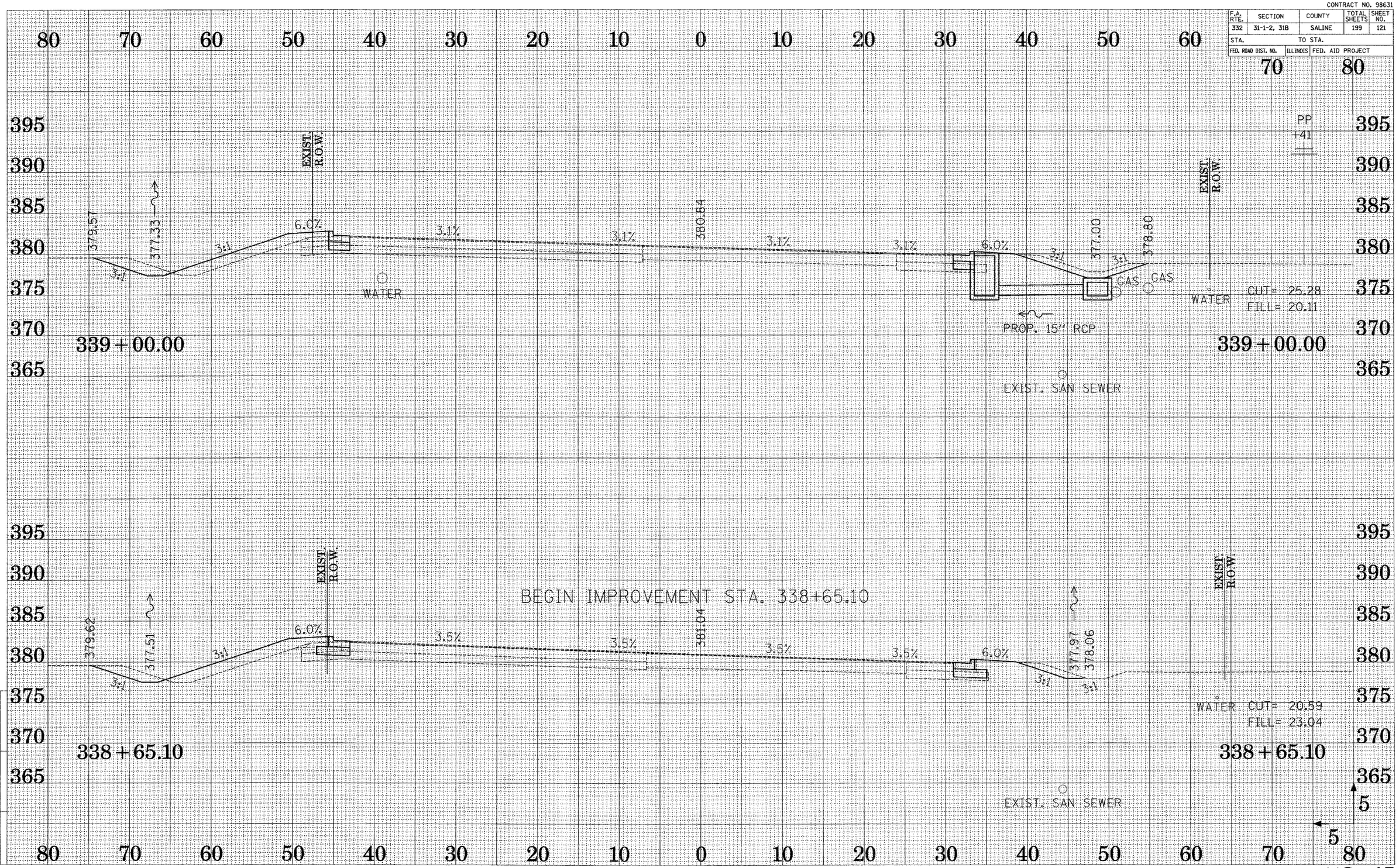
DRAWN BY ....LS....
CHECKED BY ....JN....

M:/PROJ3526/ROADWAY/CONTRACT 4/STANDARDS/
Active Files
Reference Files
std0-3526d4.dgn
detbord-3526d4.dgn

SEDIMENT BASIN

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	121
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



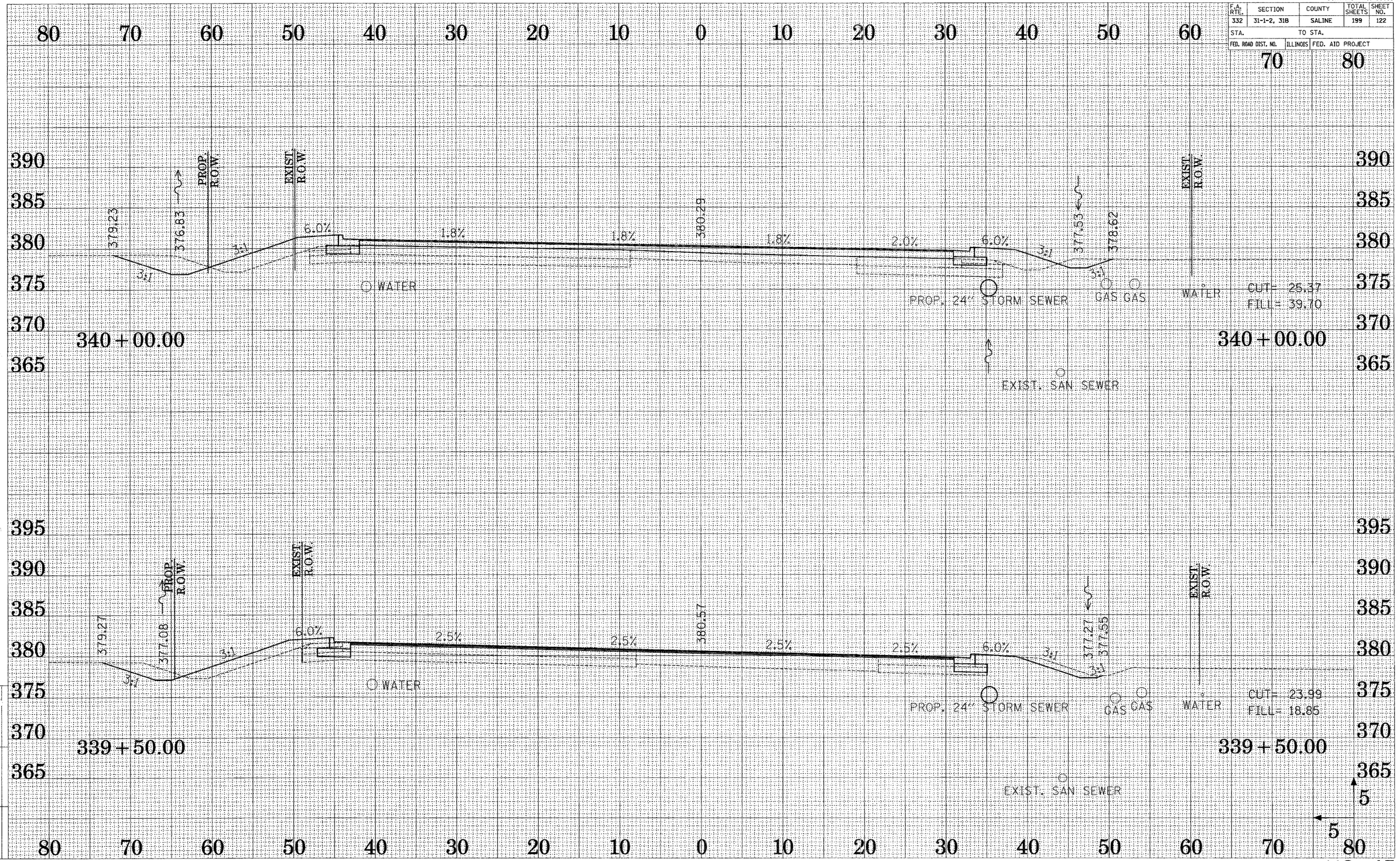
DRAWN BY ...DRTG...
CHECKED BY ...R.V.R...

Active Files | References Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	122
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



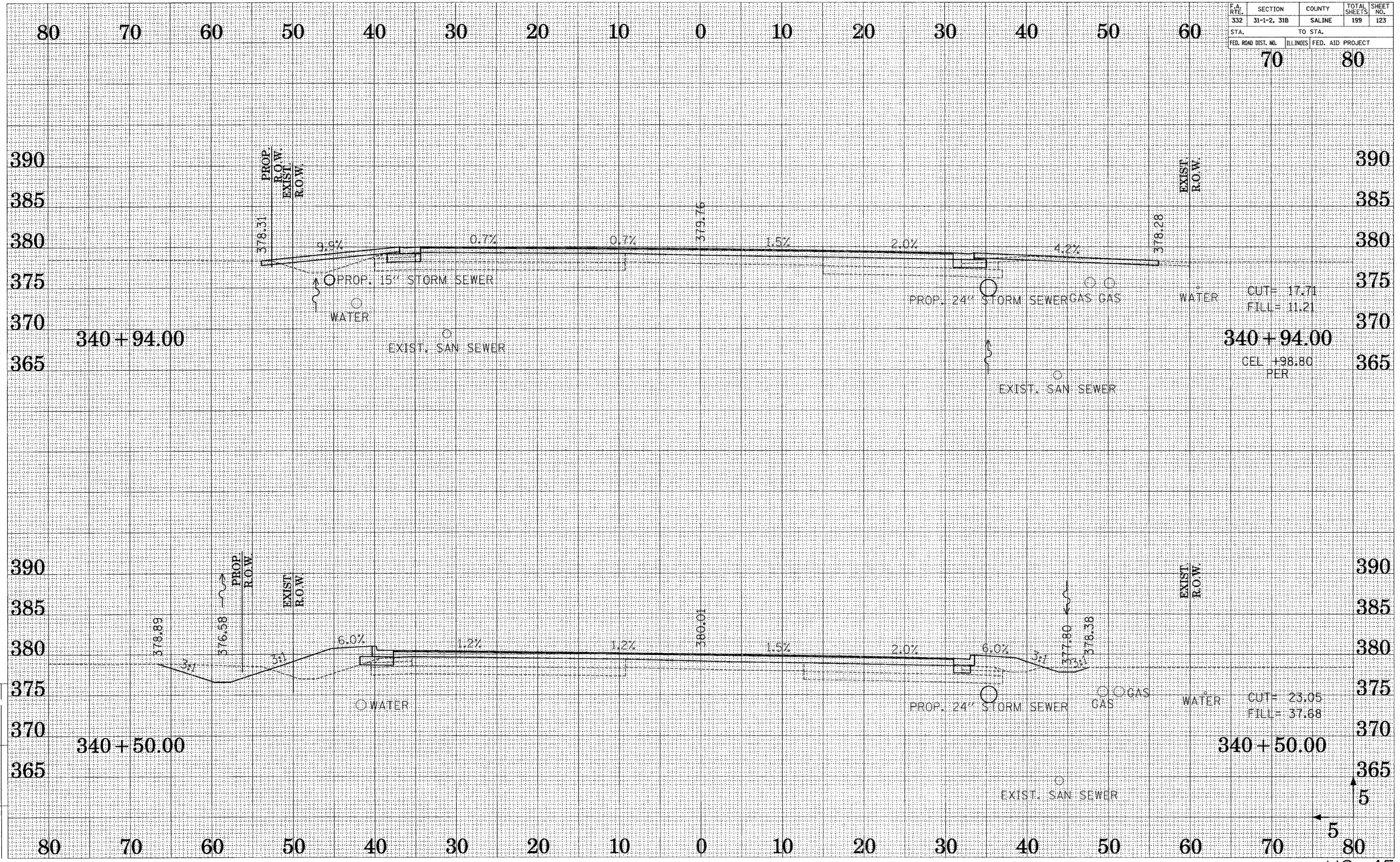
DRAWN BY ...
CHECKED BY ...

Active Files Reference Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	123
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



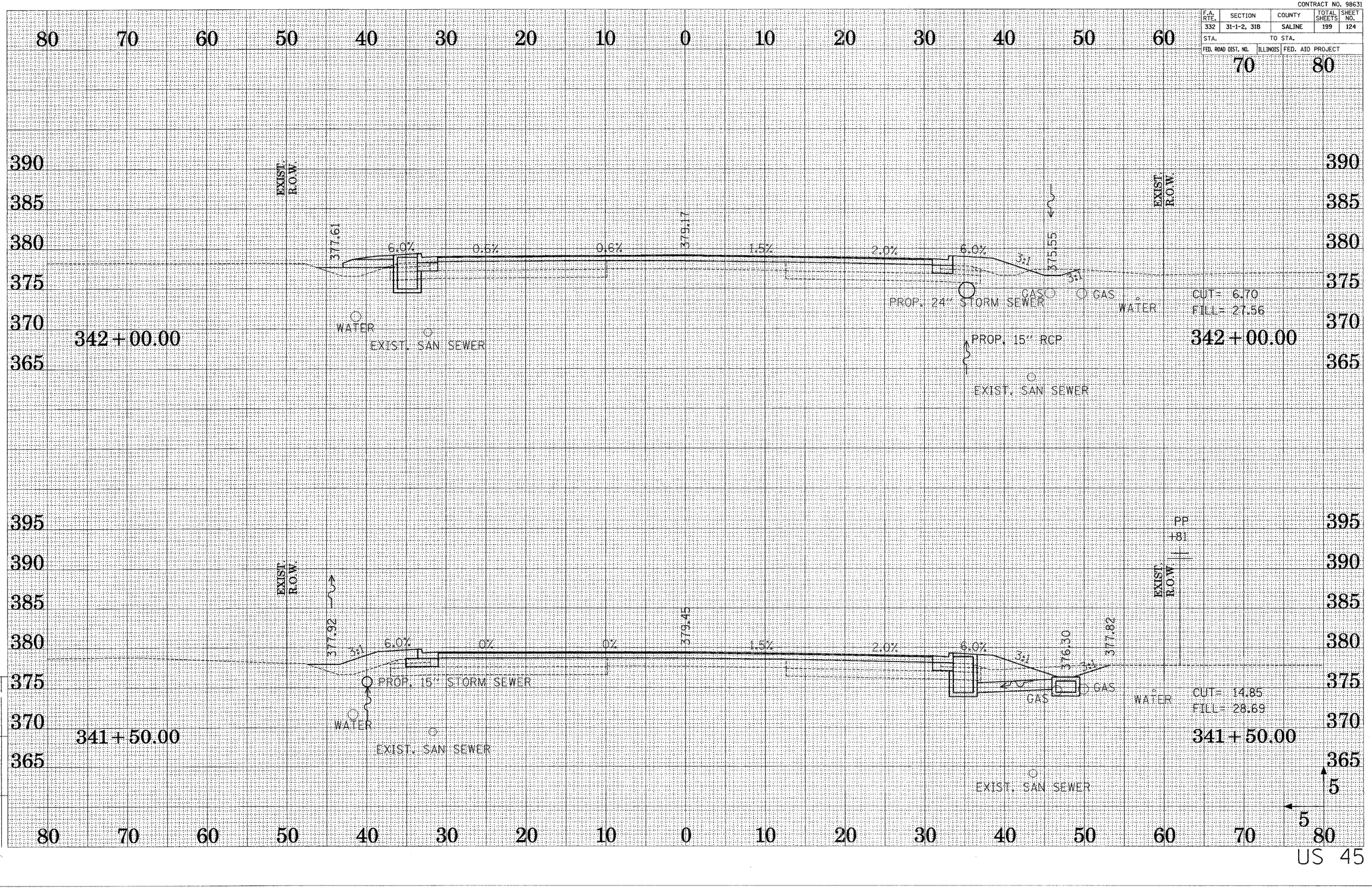
DRAWN BY JHH
CHECKED BY RJR

Active Files | Reference Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	124
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



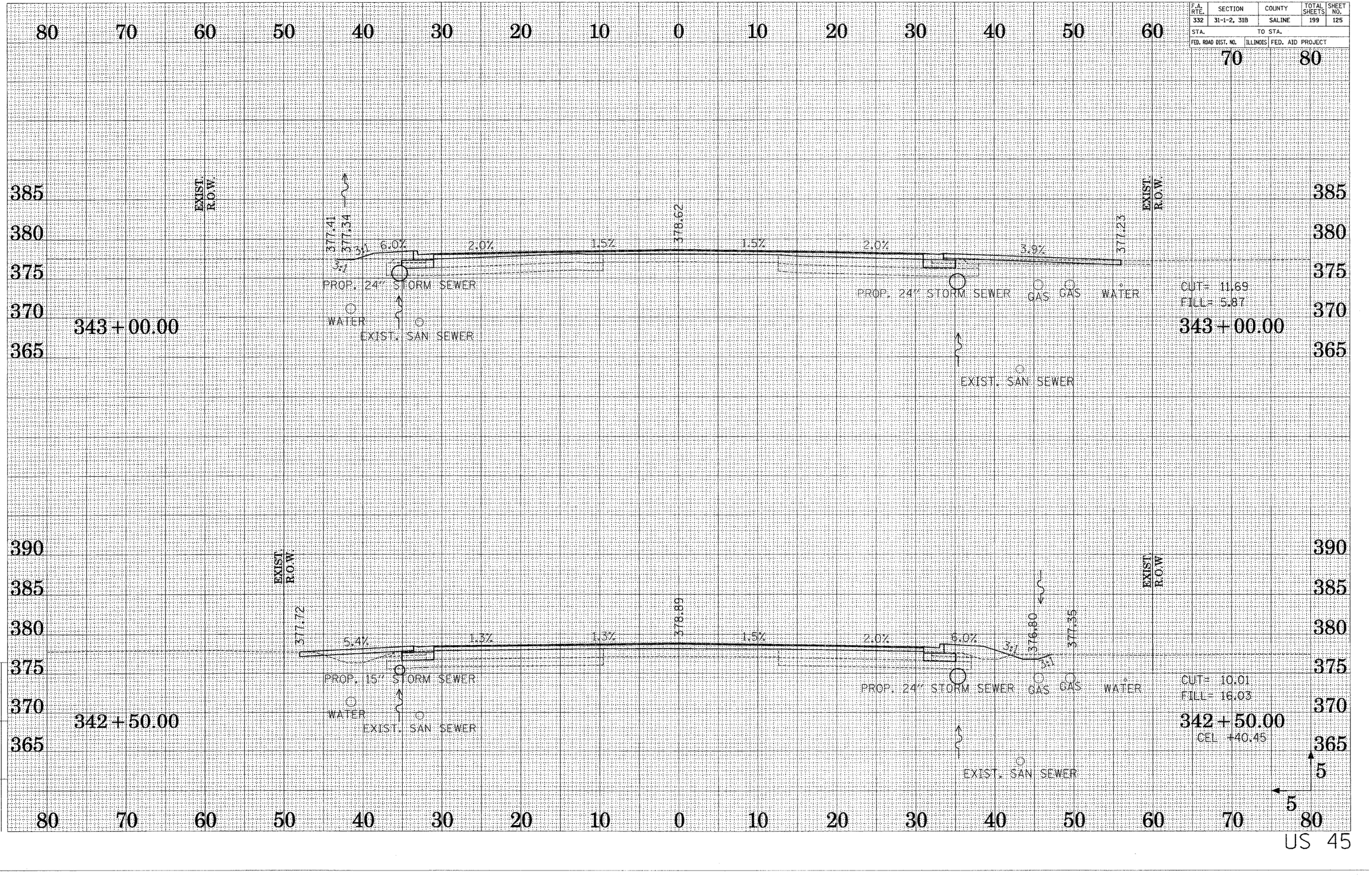
DRAWN BY ..JDH..
CHECKED BY ..DJB..

Active Files | Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	125
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...JHB...
CHECKED BY ...DJB...

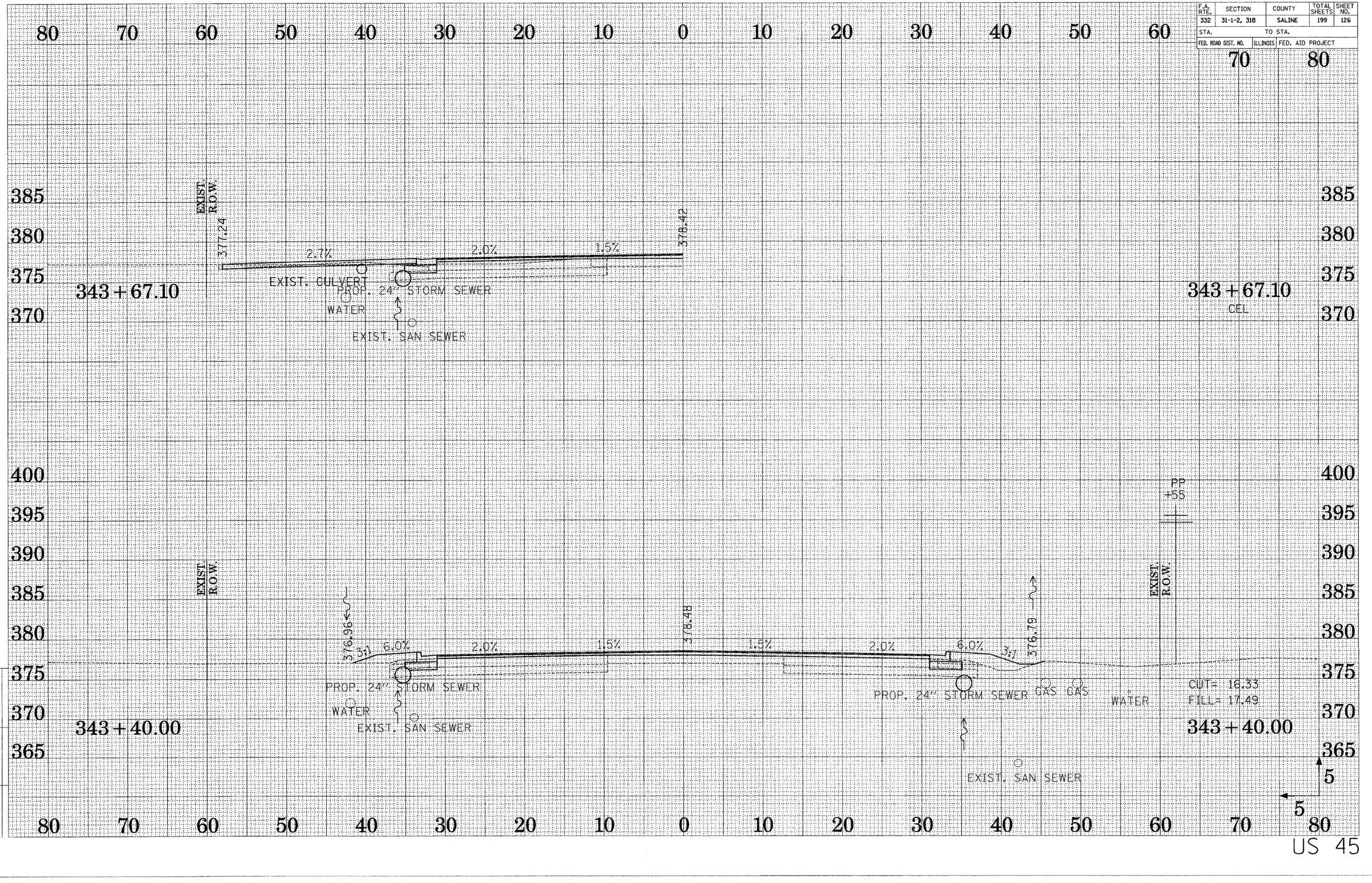
Reference Files

Active Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	126
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



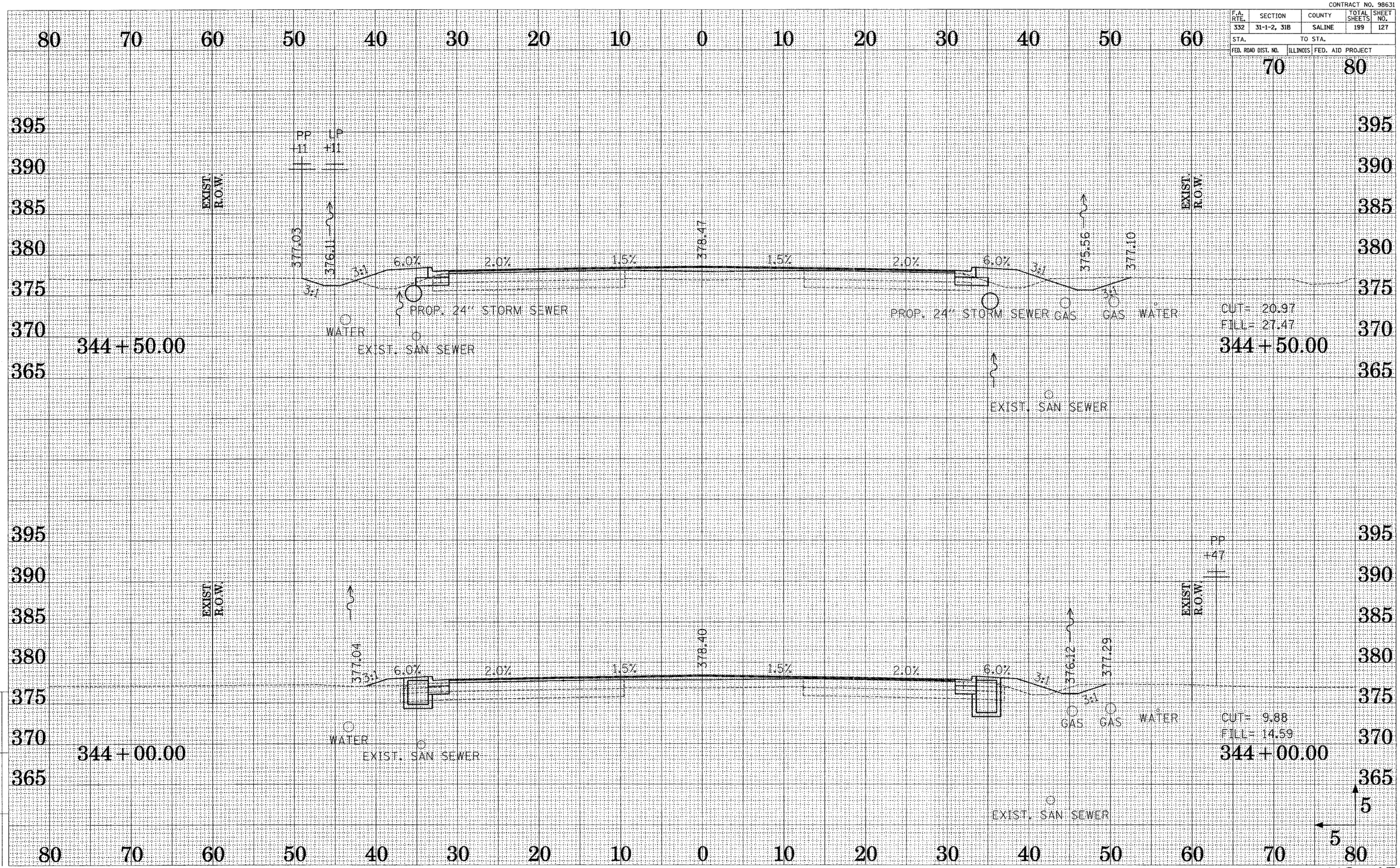
DRAWN BY ...DRG...
CHECKED BY ...DJB...

Active Files
Reference Files

US 45

CONTRACT NO. 98631

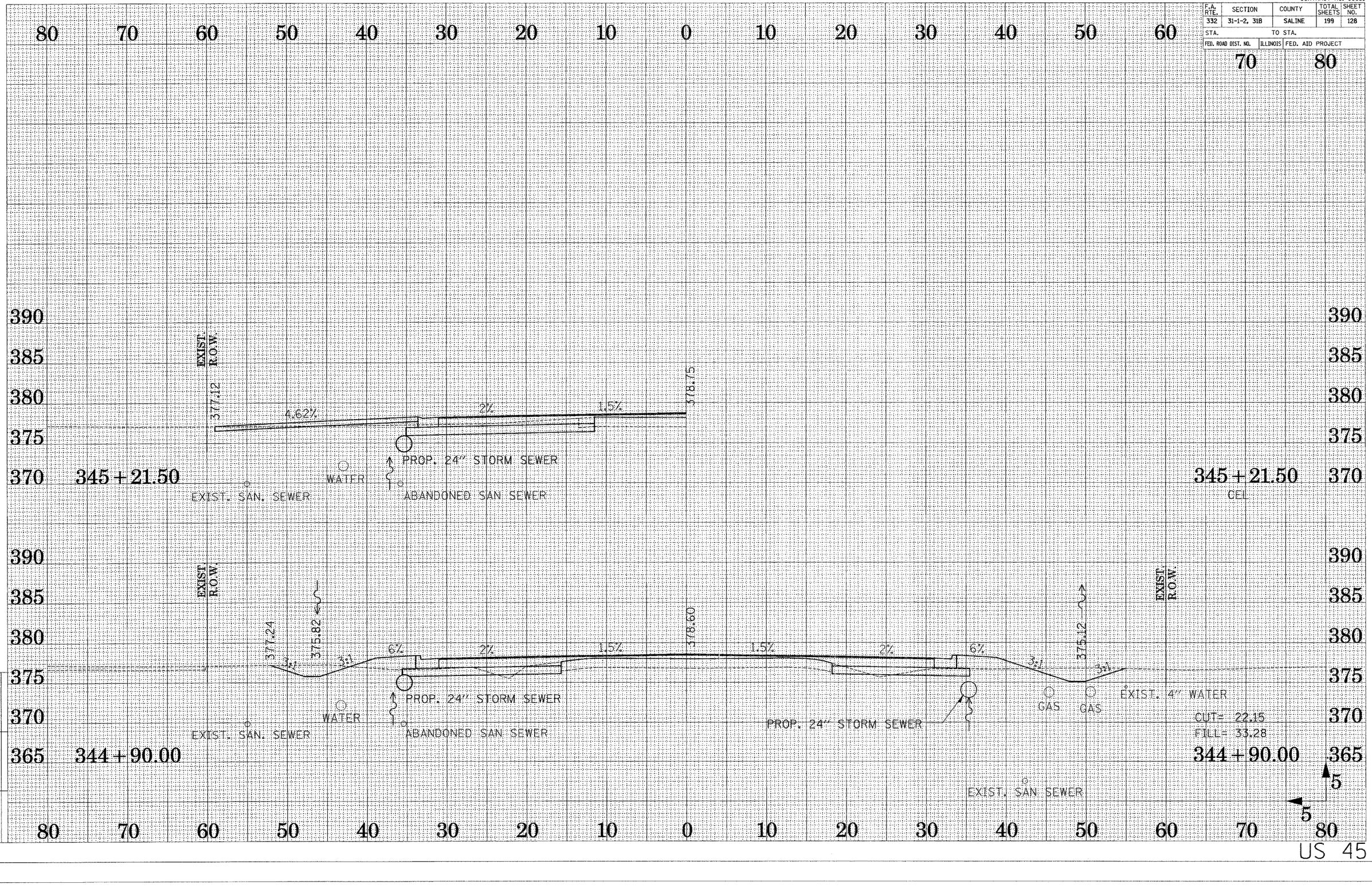
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	127
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	128
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



US 45

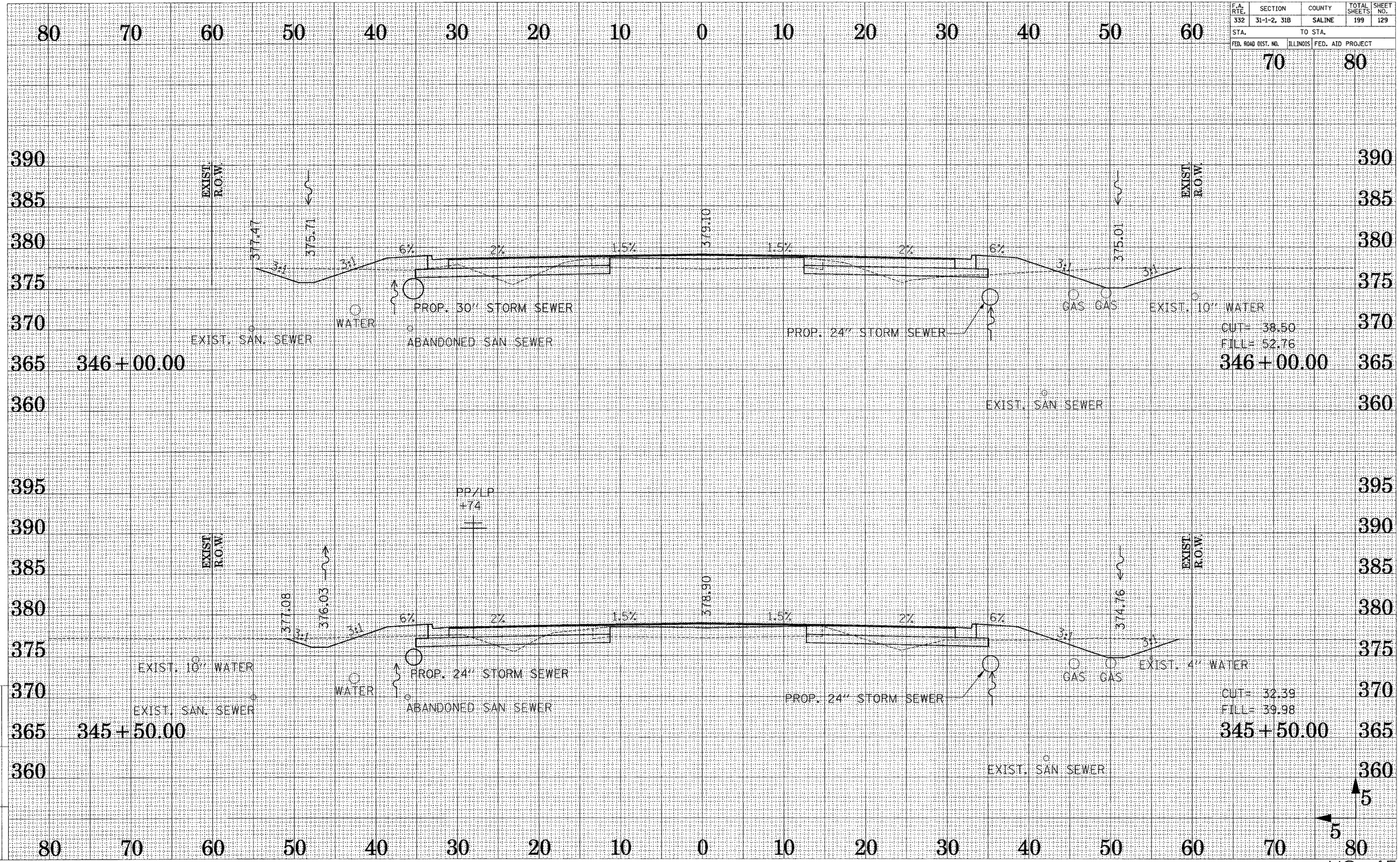
DRAWN BY ...AVS...
CHECKED BY ...DJB...

Reference Files:

Active Files:
d98f_95245.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	129
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

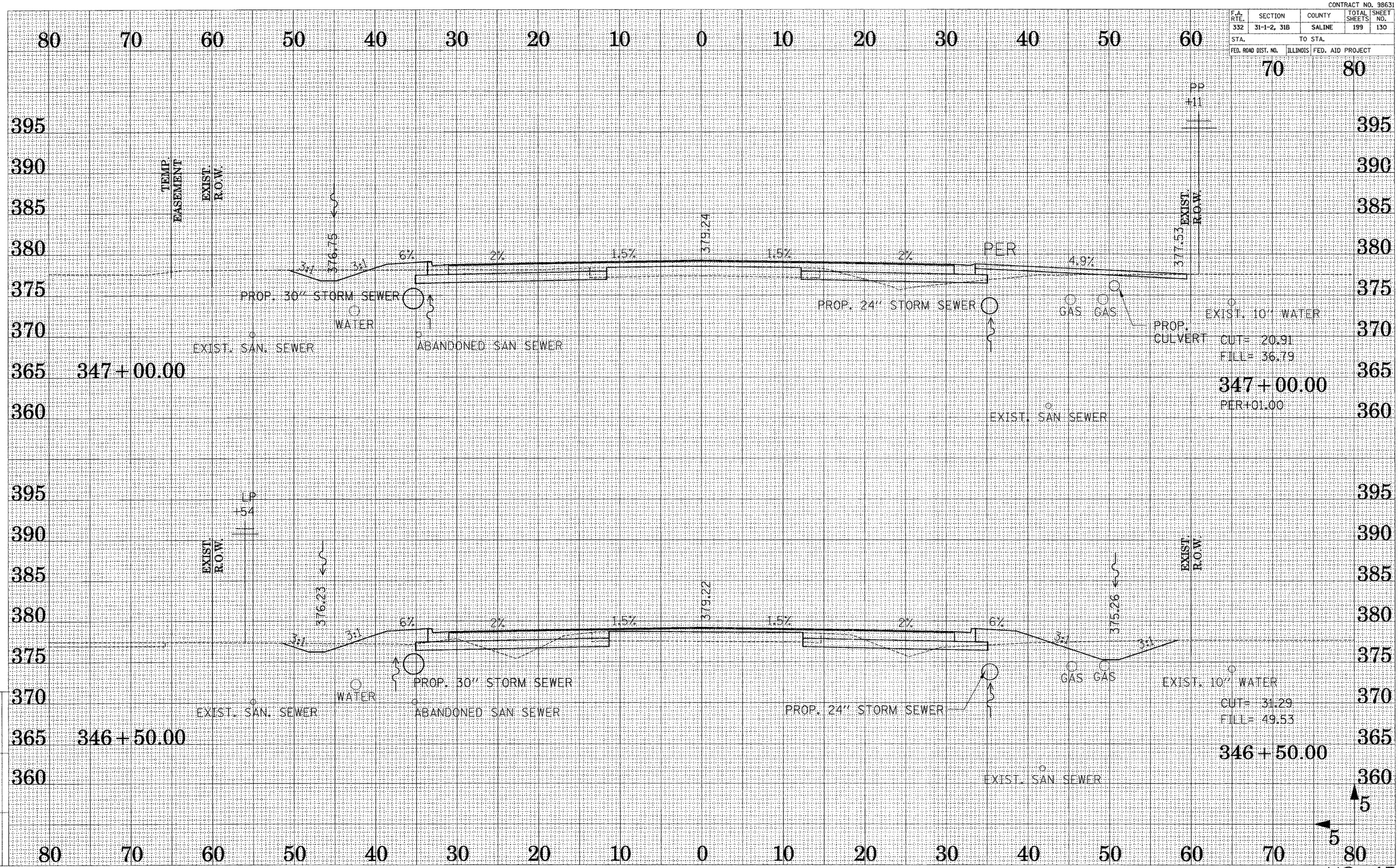


DRAWN BY ...MM...
CHECKED BY ...DJB...

Active Files: x602-358c4.dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	130
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY --JRC--
CHECKED BY --DJB--

Reference Files:

Active File:
\\dot2-3926\c4\dgn\

5
5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	131
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CROSS SECTION SKEW = 32.3° AHEAD

379.22
1.4%
1.8%
5.6%
377.04
EXIST. R.O.W.
TEMP. EASEMENT
GAS GAS
EXIST. 10" WATER
PROP. 24" STORM SEWER
347+30.92
CER
EXIST. SAN SEWER

377.01
3:1
3:1
6%
2%
1.5%
379.23
1.5%
2%
6%
3:1
375.70
5:1
TEMP. EASEMENT
EXIST. R.O.W.
PROP. 30" STORM SEWER
WATER
EXIST. SAN. SEWER
ABANDONED SAN SEWER
PROP. 24" STORM SEWER
GAS GAS
EXIST. 10" WATER
CUT= 32.67
FILL= 27.76
347+25.00
EXIST. SAN SEWER

DRAWN BY ..AR..
CHECKED BY ..DAB..

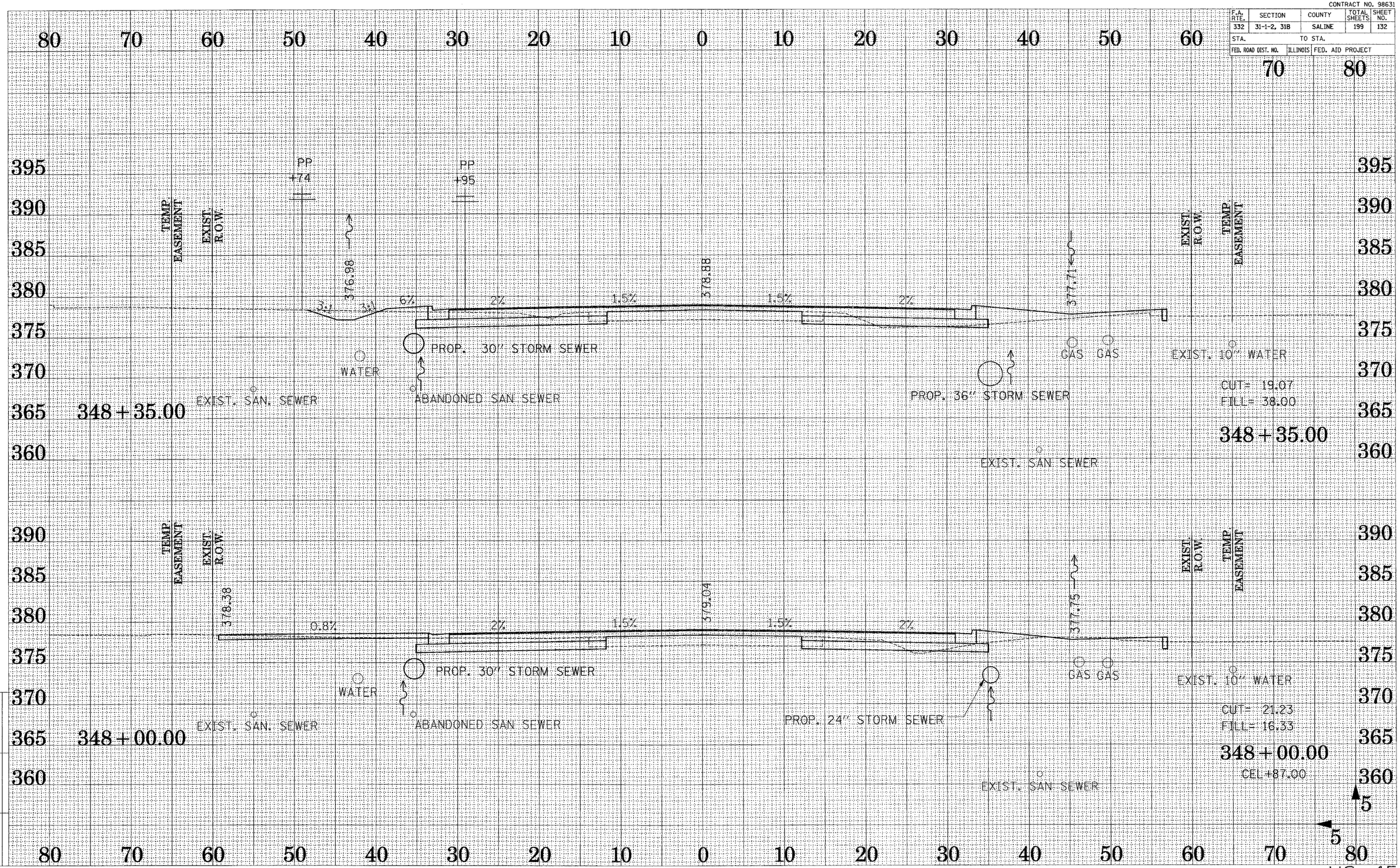
Reference Files
x012-342614.dgn

5
5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	132
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AJC...
CHECKED BY ...DJB...

Active Files: x80z-35d6c4.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	133
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CROSS SECTION SKEW = 32.3° BACK

378.51
1%
1.4%
3.1%
377.26
EXIST. R.O.W.
TEMP. EASEMENT
CER
GAS GAS
EXIST. 10" WATER
PROP. 36" STORM SEWER
349+00.75
CER
EXIST. SAN SEWER

TEMP. EASEMENT
EXIST. R.O.W.
375.95
3:1
3:1
6%
2%
1.5%
378.52
1.5%
2%
6%
3:1
375.64
3:1
PP +25
PP +85
EXIST. R.O.W.
TEMP. EASEMENT
PROP. 30" STORM SEWER
WATER
ABANDONED SAN SEWER
PROP. 36" STORM SEWER
GAS
GAS
EXIST. 10" WATER
CUT= 22.45
FILL= 23.60
349+00.00
EXIST. SAN. SEWER
EXIST. SAN SEWER

5
5

US 45

DRAWN BY ...ASC...
CHECKED BY ...DJB...

Reference Files
Active Files
x002-252644.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	134
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370

TEMP. EASEMENT
EXIST. R.O.W.
377.46
0.6%
2%
1.5%
378.09
PROP. 30" STORM SEWER
WATER
349+80.50
EXIST. SAN. SEWER
ABANDONED SAN SEWER
349+80.50
CEL.

400 395 390 385 380 375 370 365 360

PP +62
TEMP. EASEMENT
EXIST. R.O.W.
377.97
375.57
3:1
3:1
6%
378.35
1.5%
2%
6%
3:1
374.92
3:1
EXIST. R.O.W.
+88 +52
PROP. 30" STORM SEWER
WATER
ABANDONED SAN SEWER
349+30.00
EXIST. SAN. SEWER
PROP. 36" STORM SEWER
GAS
GAS
EXIST. 10" WATER
CUT= 32.65
FILL= 42.15
349+30.00
EXIST. SAN SEWER

5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

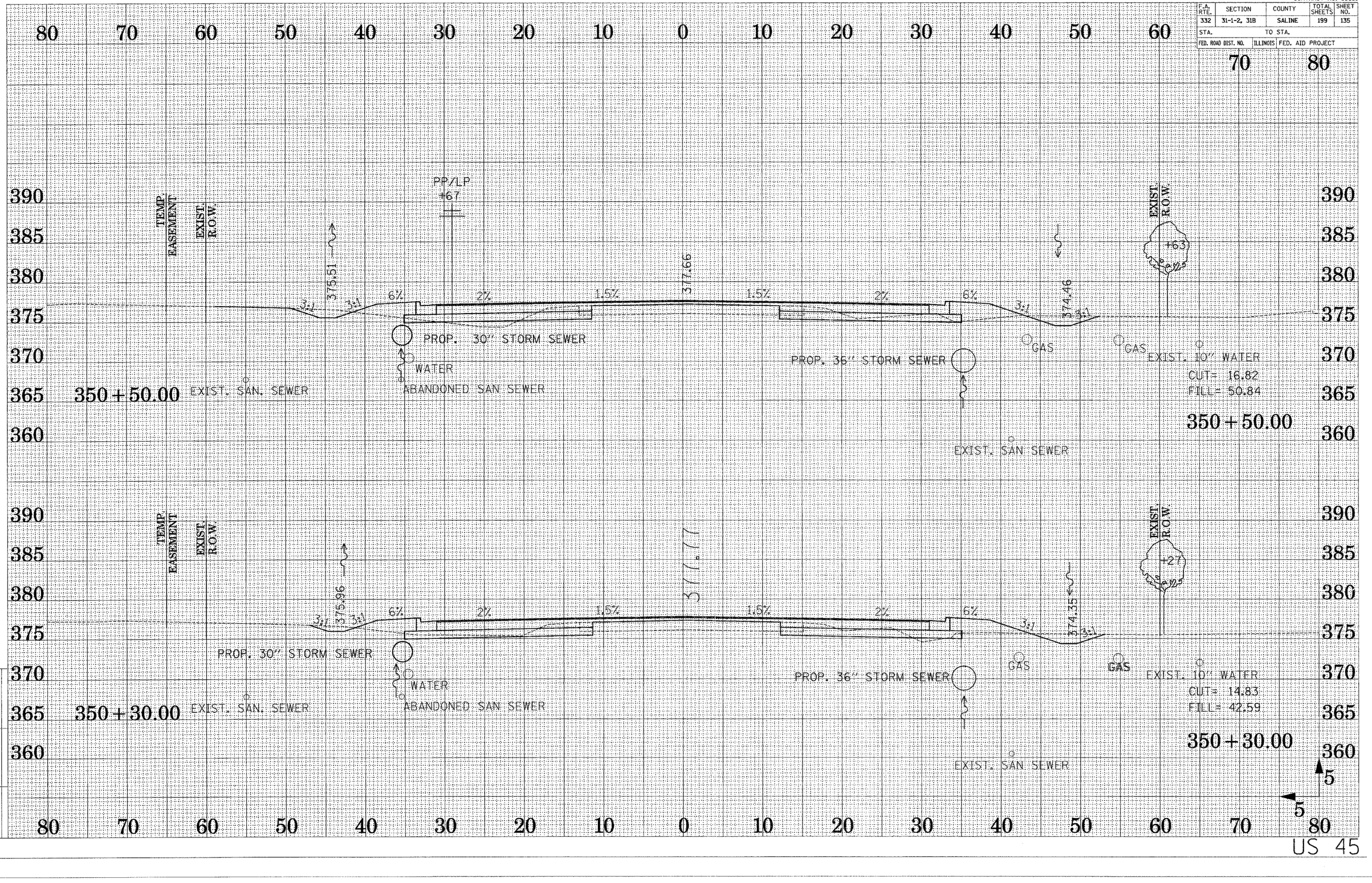
DRAWN BY ..RK..
CHECKED BY ..DJB..

Active Files: x8d2-352604.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	135
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



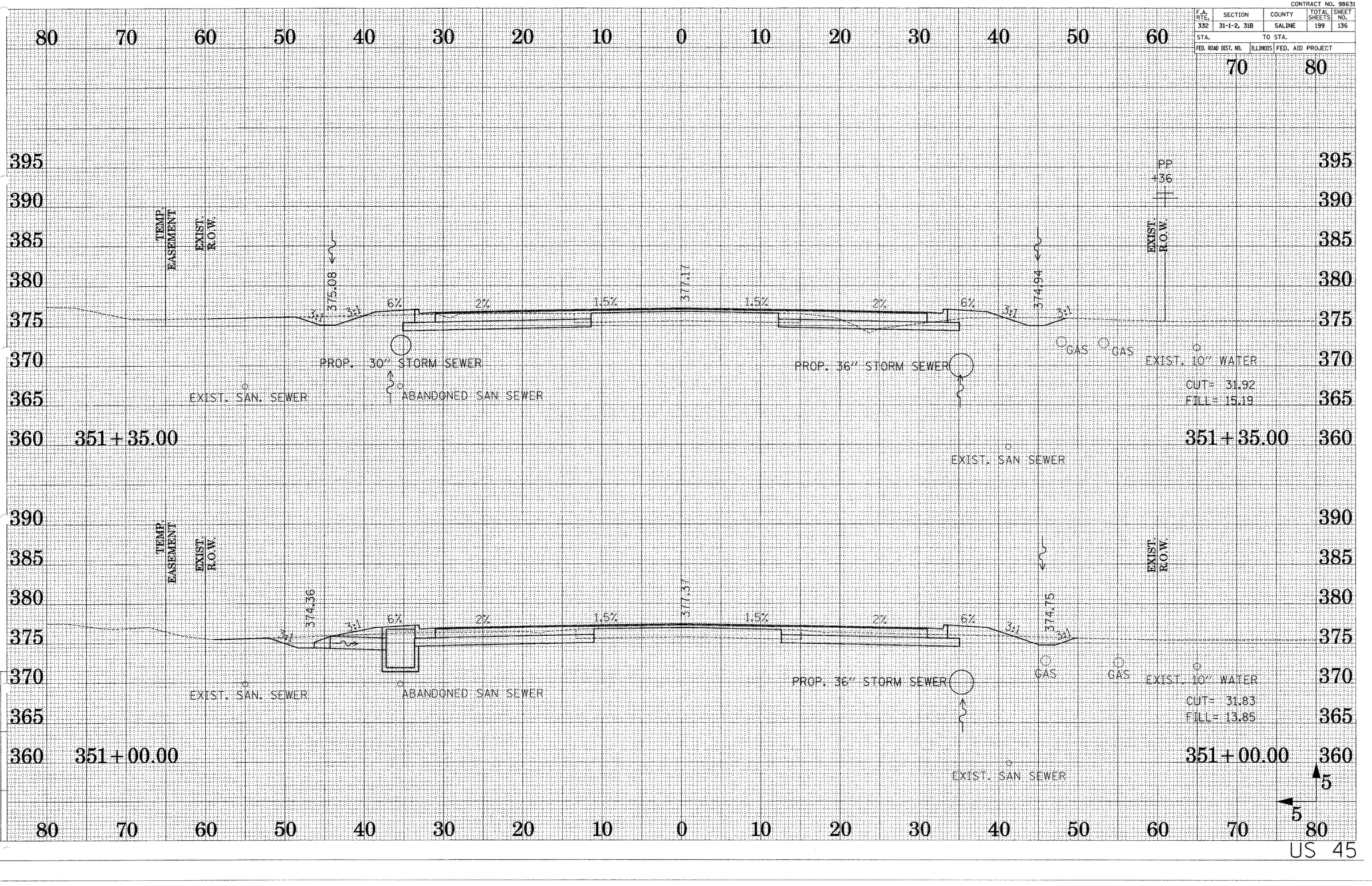
DRAWN BY ...AHL...
CHECKED BY ...DJR...

Active Files: 3802-3926-4.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	136
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



US 45

CHECKED BY ...DVR...
x80Z-35084-4.dgn
x80Z-35084-4.dgn 5/25/2005 2:02:51 PM

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	137
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 360

CROSS SECTION SKEW = 12.4° BACK

377.00 1.4% 1.9% PRINTERS LANE 1.3% 376.14

EXIST. R.O.W.

PROP. 36" STORM SEWER

GAS GAS WATER

EXIST. 10" WATER

351+68.15

EXIST. SAN SEWER

TEMP EASEMENT

PERM. ESMT.

PROP. R.O.W.

EXIST. R.O.W.

CROSS SECTION SKEW = 19.6° AHEAD

376.31 1.2% 2% 1.6% 377.05

PROP. 30" STORM SEWER

351+57.50 EXIST. SAN. SEWER

ABANDONED SAN SEWER

351+57.50

CEL

5

5

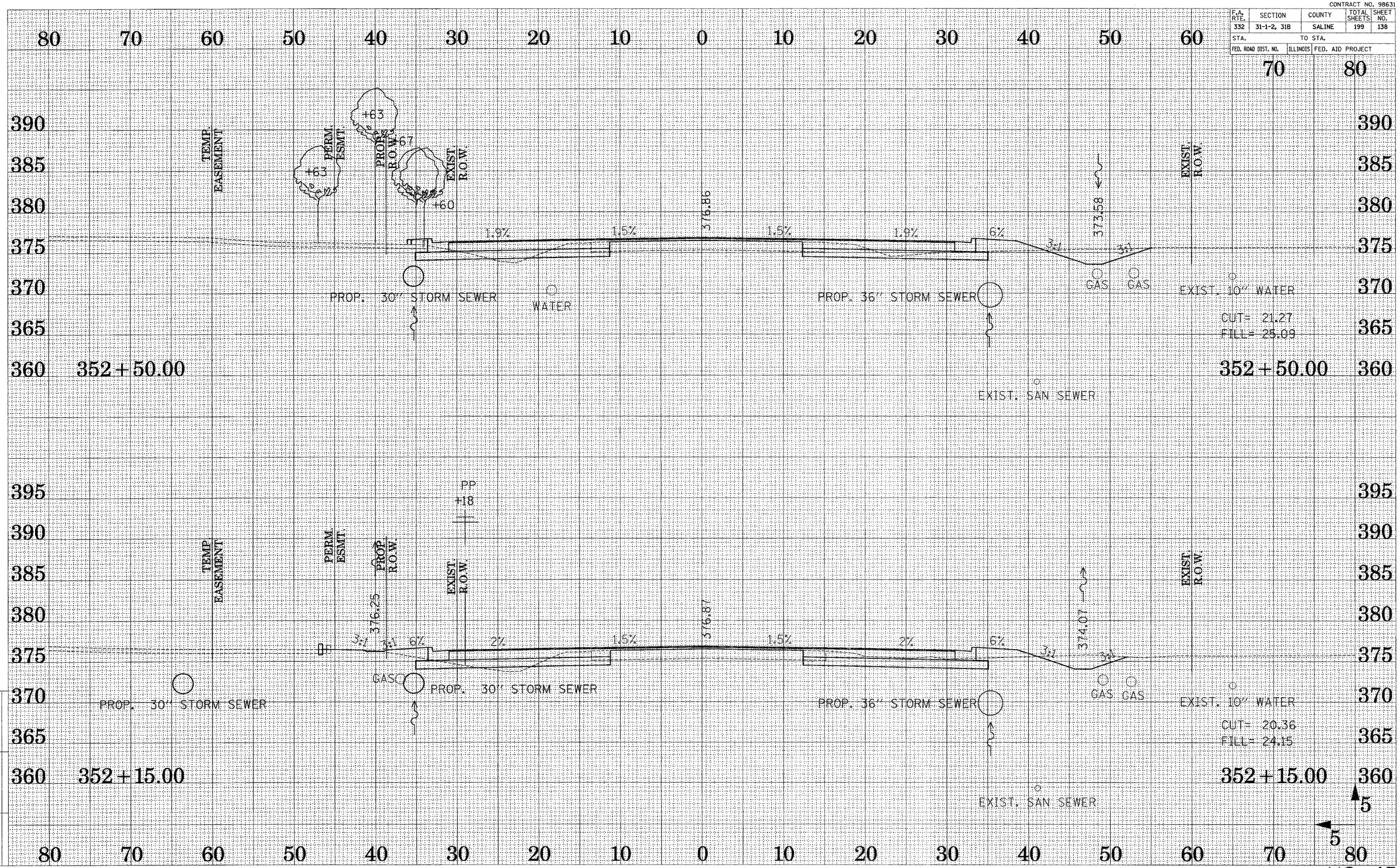
DRAWN BY --AK--
CHECKED BY --DJB--

Active Files: e602-7656c4.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	138
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ..AS..
CHECKED BY ..DJR..

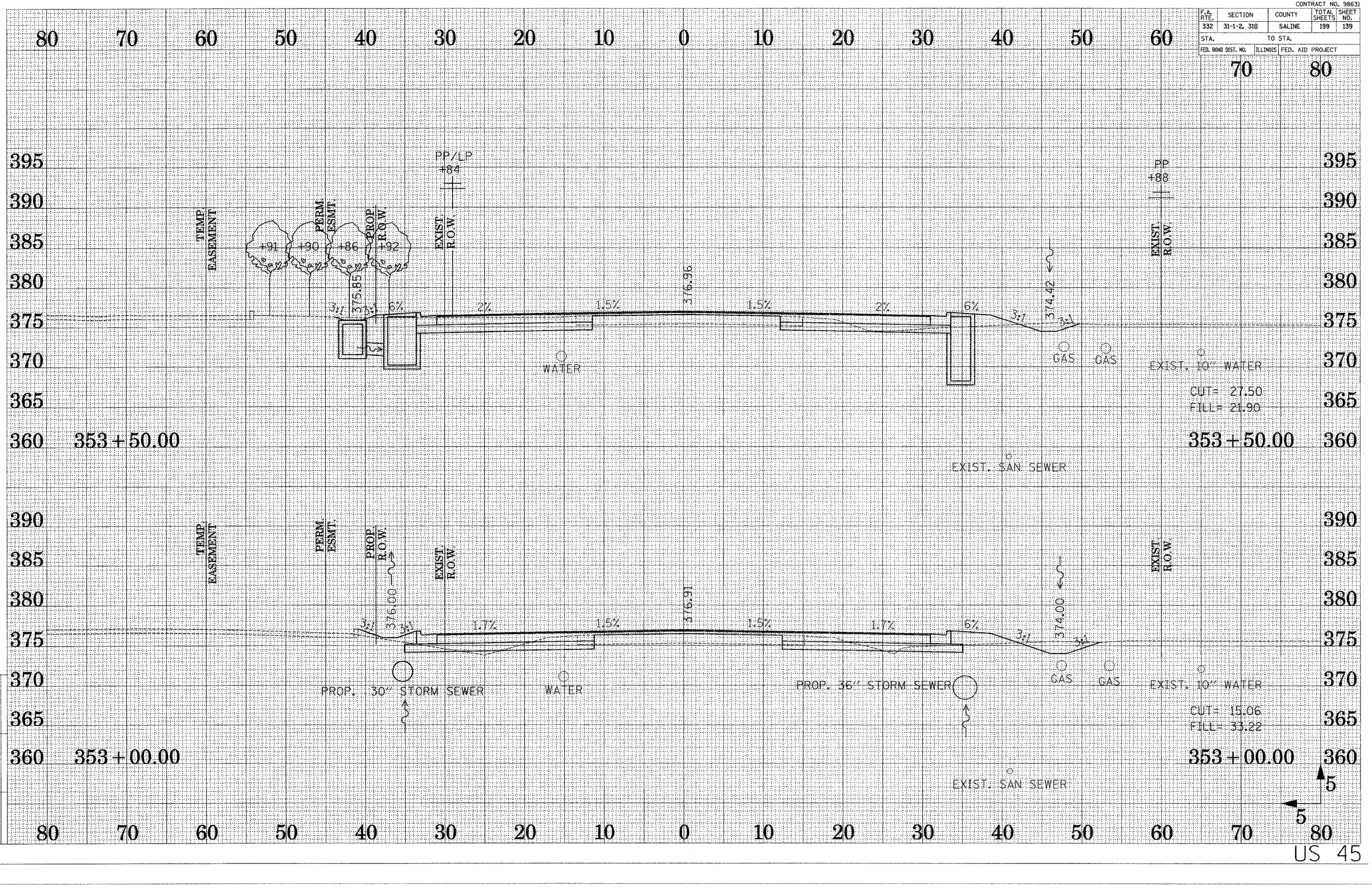
Active Files: x902-352604.dgn
Reference Files:

5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	139
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...RK...
CHECKED BY ...DJR...

Active Files
xs02-352bc4.dgn

References Files

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	140
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 360

377.04 1.5% 1.7% 4.6% 375.62

EXIST R.O.W

TEMP EASEMENT

GAS GAS EXIST. 10" WATER

PROP. 36" STORM SEWER

354+30.00

CER

EXIST. SAN SEWER

TEMP EASEMENT

PERM. ESMT.

PROP. R.O.W

EXIST. R.O.W

376.54 0.3% 1.8% 1.5% 377.01 1.5% 1.8% 6% 3:1 3:1 374.85

EXIST R.O.W

TEMP EASEMENT

WATER WATER GAS GAS EXIST. 10" WATER

PROP. 36" STORM SEWER PROP. 36" STORM SEWER

CUT= 35.15

FILL= 36.01

354+00.00

CEL+09.50

EXIST. SAN SEWER

354+00.00

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ...AK...

CHECKED BY ...DJR...

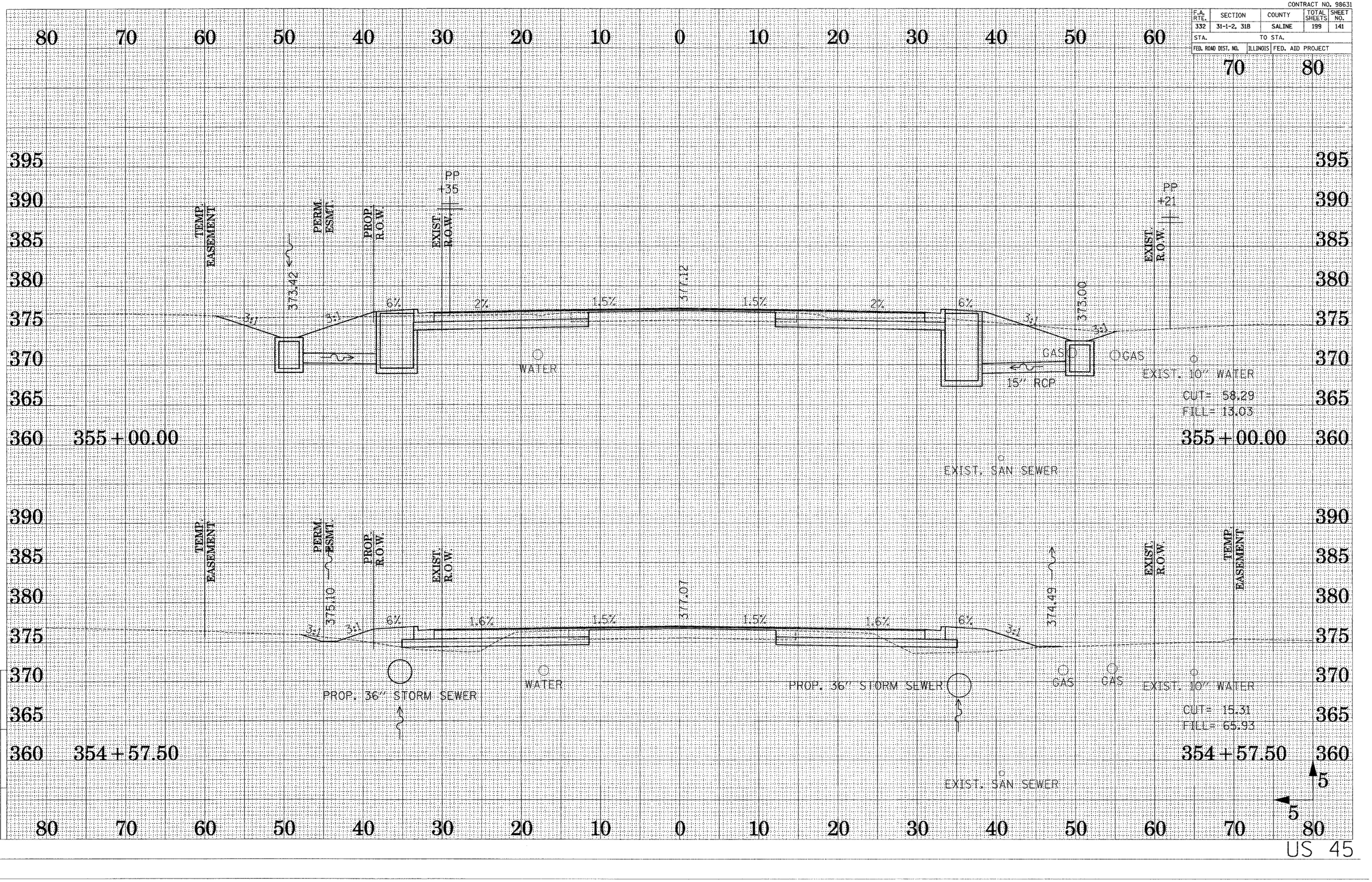
Active Files: x602-35c54.dgn

Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	141
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



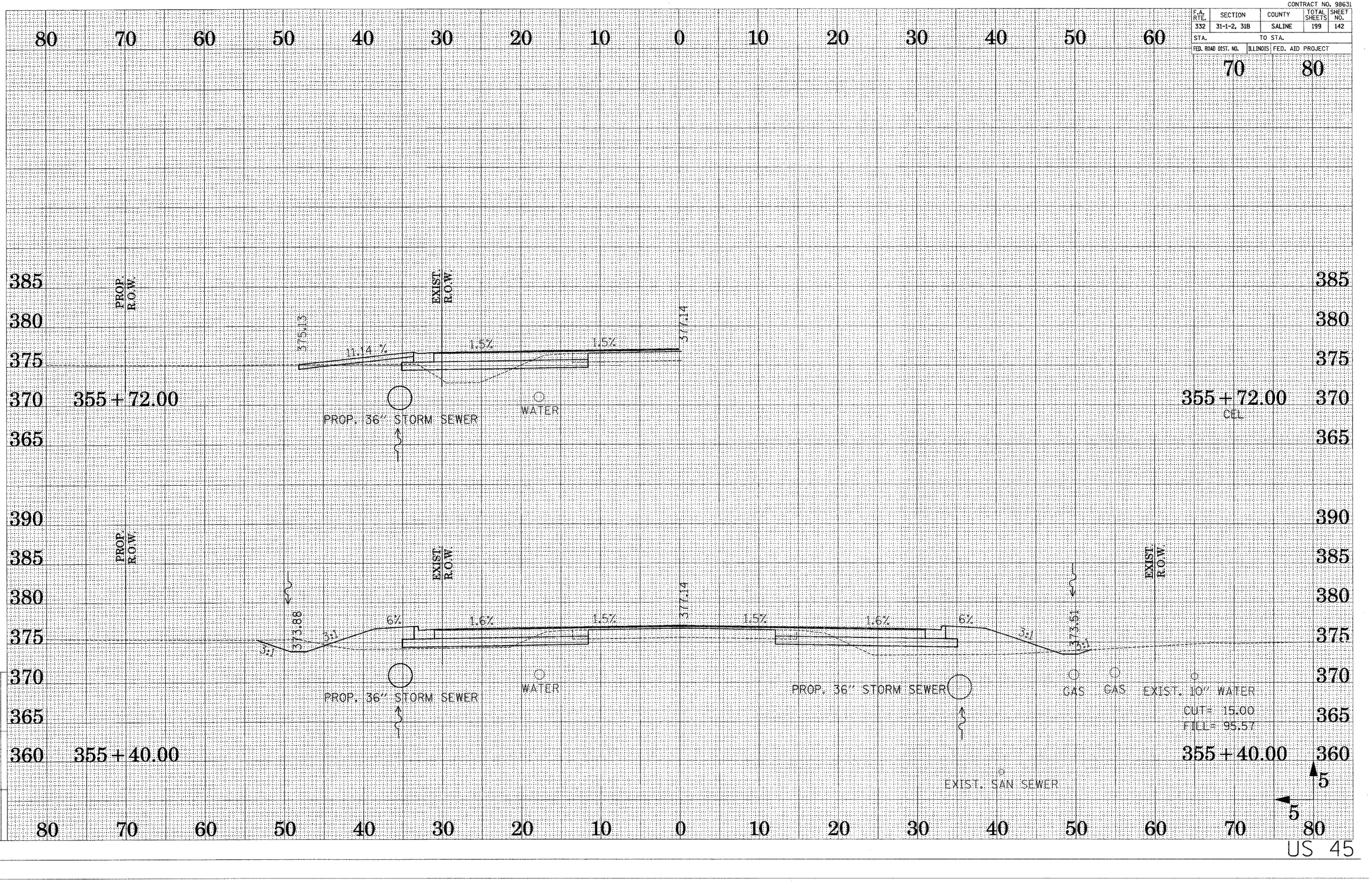
DRAWN BY ...AK...
CHECKED BY ...DJB...

Active Files: xs02-352bc4.dgn
References Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	142
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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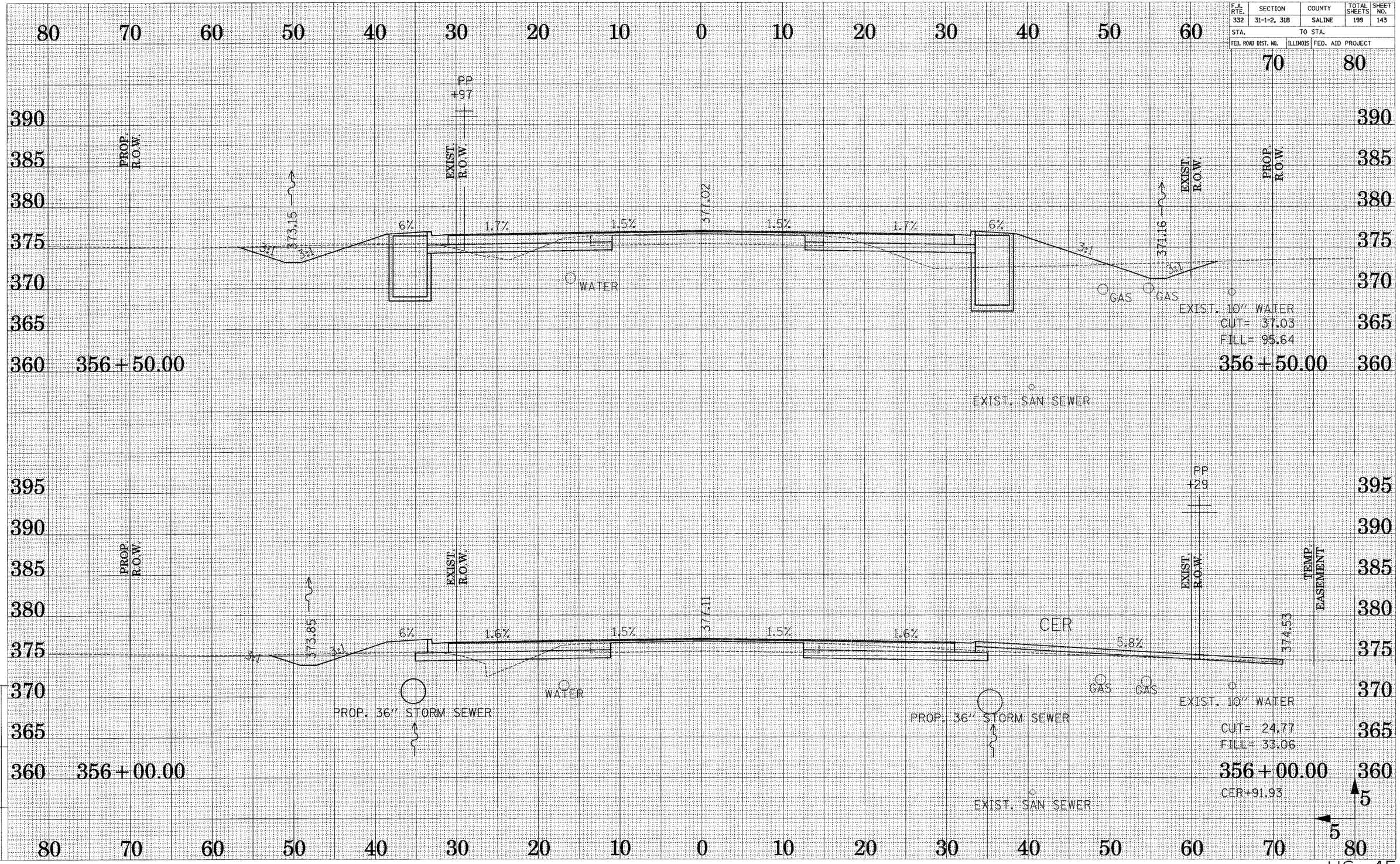
CHECKED BY ...DJB...

Active File: x602-152654.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	143
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ..AS..
CHECKED BY ..DJR..

Active Files: x802-3525-Logo
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	144
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...Att...
CHECKED BY ...DJR...

Active Files: xs02-355c4.dgn
References Files:

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

395 390 385 380 375 370 365 360

PP +57

PROP. R.O.W.

EXIST. R.O.W.

372.17

3:1 3:1

6% 1.9% 1.5% 376.79 1.5% 1.9% 6%

3:1 3:1

PROP. 36" STORM SEWER

WATER

PROP. 36" STORM SEWER

GAS GAS

370.86

EXIST. R.O.W.

PP +90

PROP. R.O.W.

+73

EXIST. 10" WATER

CUT= 43.71

FILL= 91.74

357+50.00

EXIST. SAN SEWER

PROP. R.O.W.

EXIST. R.O.W.

372.42

3:1 3:1

6% 1.8% 1.5% 376.89 1.5% 1.8% 6%

3:1 3:1

PROP. 36" STORM SEWER

WATER

PROP. 36" STORM SEWER

GAS GAS

371.01

EXIST. R.O.W.

PROP. R.O.W.

EXIST. 10" WATER

CUT= 47.28

FILL= 79.81

357+00.00

EXIST. SAN SEWER

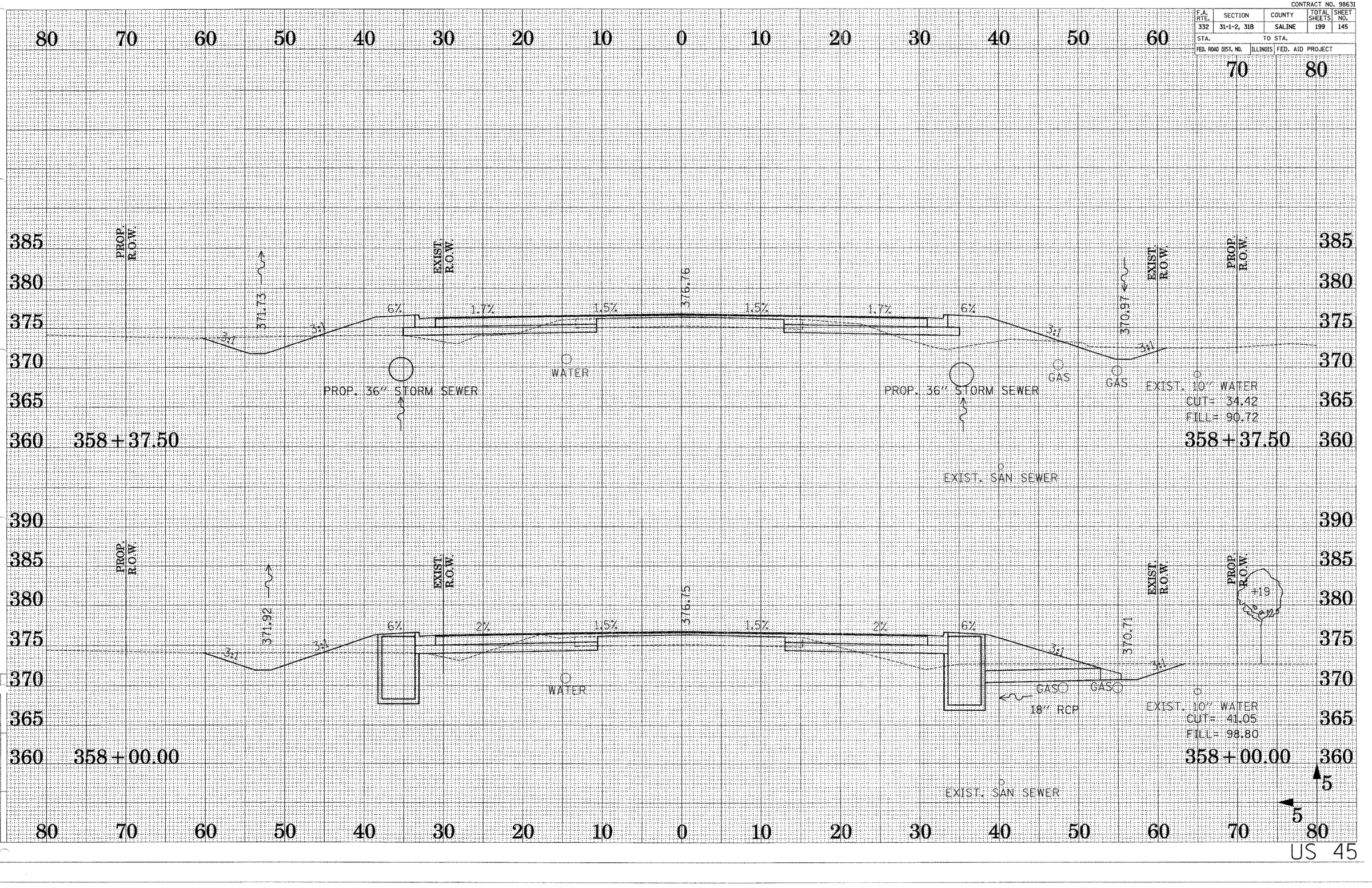
5

5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	145
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AS...
CHECKED BY ...DJB...

Active Files: x602-35262-4.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	146
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...AT...
CHECKED BY ...DJB...

Reference Files
Active File:
sec 31b&c-4.dgn

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

385 380 375 370 365 360 355

PROP. R.O.W. — EXIST. R.O.W. — PROP. R.O.W. — EXIST. R.O.W.

371.42 — 376.77 — 371.12

3:1 — 3:1 — 3:1 — 3:1

6% — 2% — 1.5% — 1.5% — 1.8% — 6%

WATER — GAS — GAS — EXIST. 10" WATER

CUT= 25.19
FILL= 129.56

359+00.00

EXIST. SAN SEWER

390 385 380 375 370 365 360 355

376.76 — 375.15

1.5% — 1.5% — 1.8%

GAS — GAS — EXIST. 10" WATER

PROP. 36" STORM SEWER

358+64.69 — 358+64.69 CER

EXIST. SAN SEWER

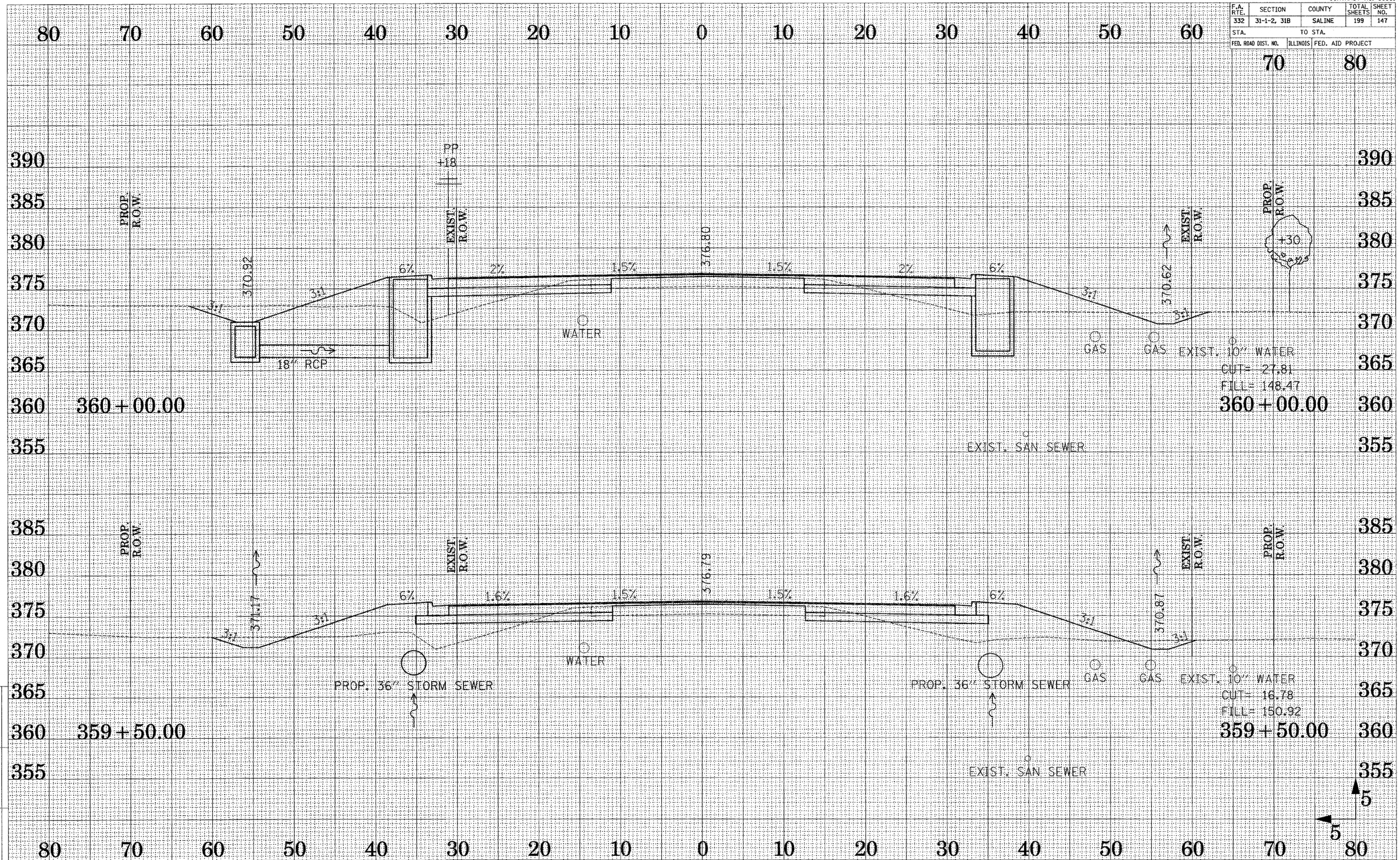
5 — 5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	147
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AK...
CHECKED BY ...DJR...

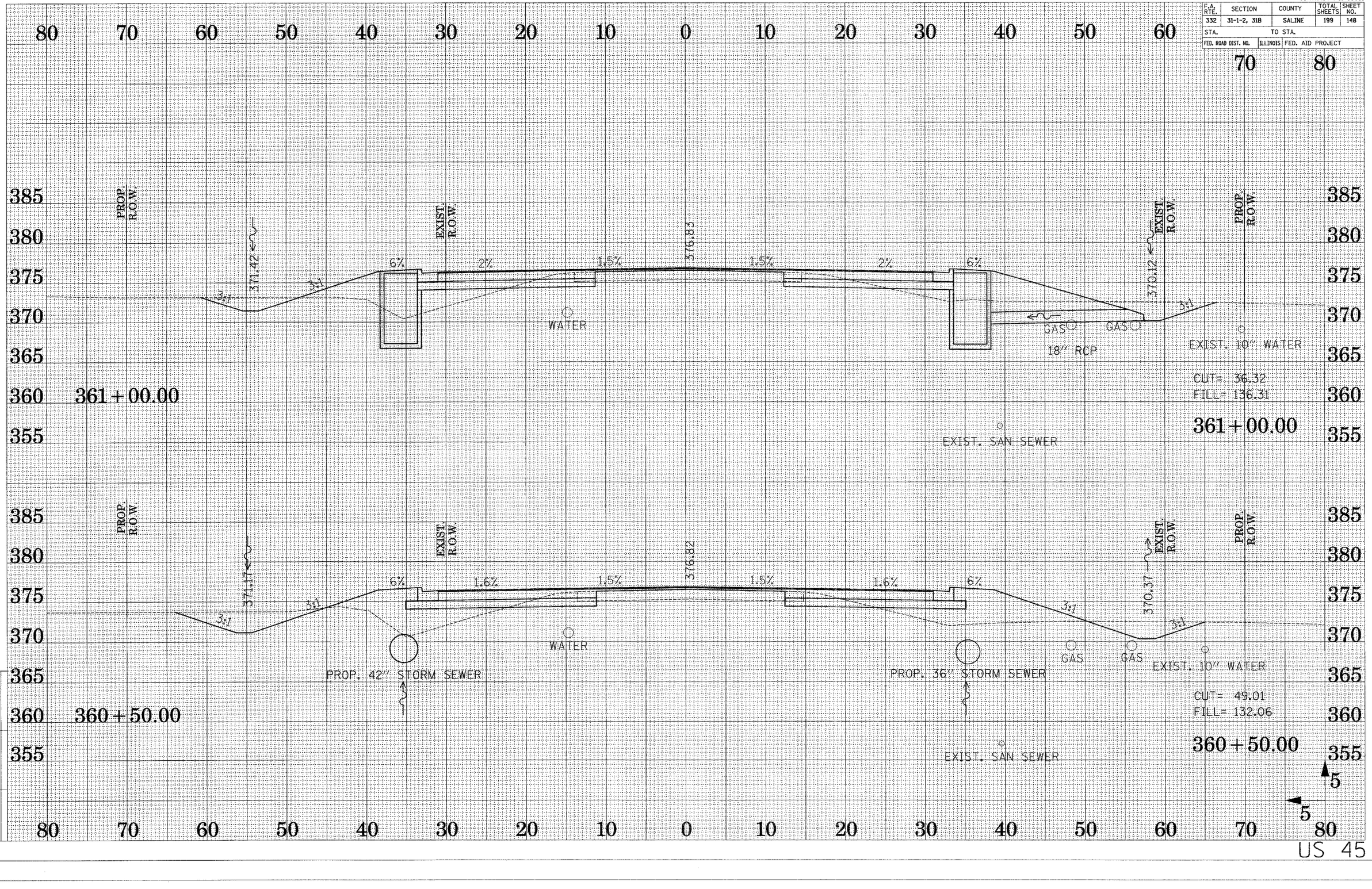
Reference Files:

Active Files:
x02-35r6c4.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	148
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AS...
CHECKED BY ...DJB...

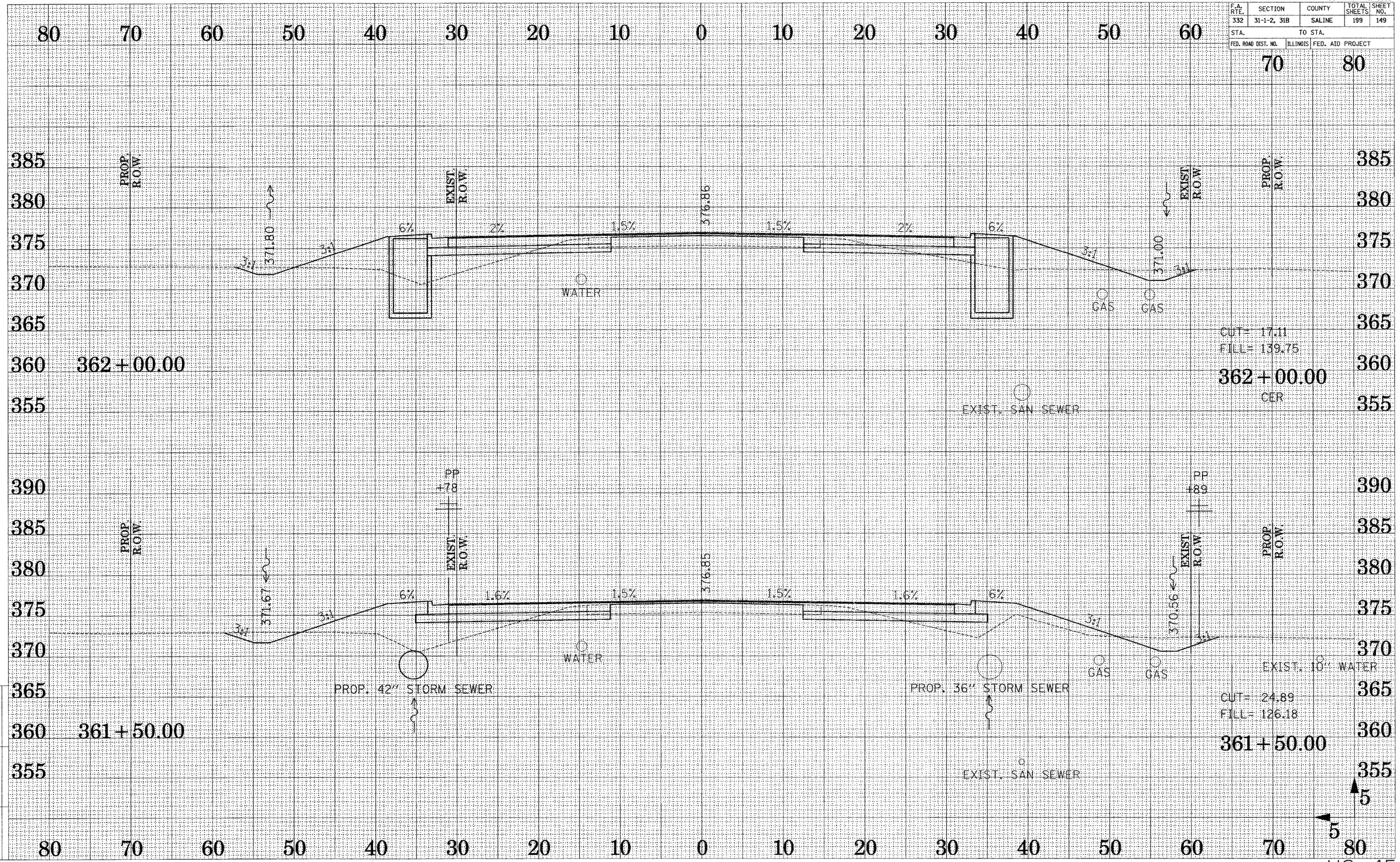
Active Files
x802-352604.dgn

Reference Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	149
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AM...
CHECKED BY ...DJB...

References Files:

Active File:
sht2-3502-04.dgn

5
5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 360 355

PROP. R.O.W.

371.30

3:1

3:1

6%

EXIST R.O.W.

PP +35

2%

1.5%

376.91

1.5%

2%

6%

WATER

3:1

371.12

EXIST R.O.W.

PROP. R.O.W.

GAS

GAS

EXIST. SAN SEWER

CUT= 15.39

FILL= 126.55

363 + 00.00

PROP. R.O.W.

371.55

3:1

3:1

6%

EXIST R.O.W.

1.6%

1.5%

376.88

1.5%

1.6%

6.00 %

EXIST R.O.W

374.72

6:1

PROP R.O.W

WATER

GAS

GAS

PROP. 42" STORM SEWER

PROP. 36" STORM SEWER

CUT= 11.57

FILL= 180.55

362 + 50.00

CER

EXIST. SAN SEWER

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ...MR...

CHECKED BY ...DJB...

Active Files

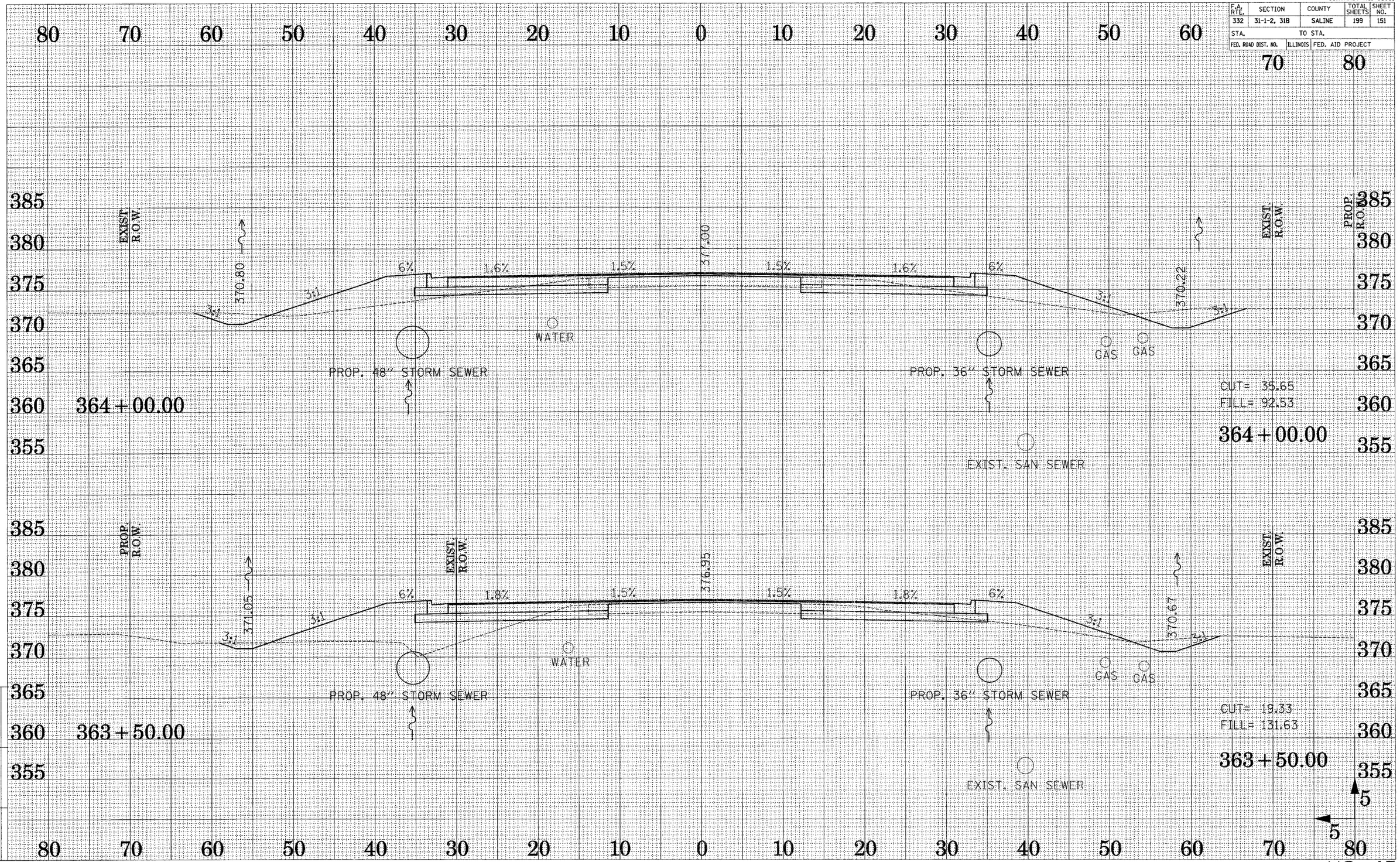
Reference Files

d02-355604.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	151
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



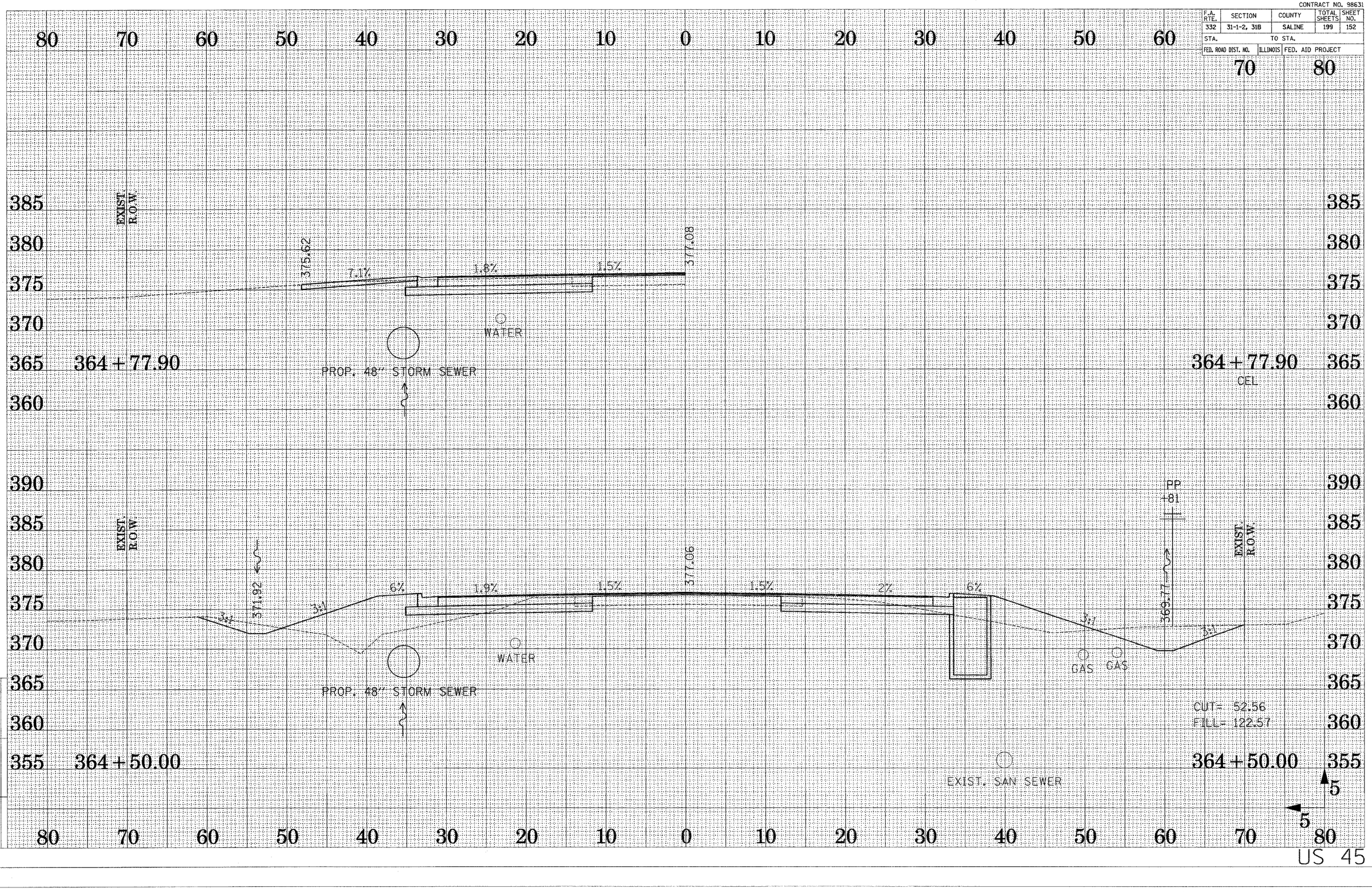
DRAWN BY --RIC--
CHECKED BY --DJB--

Xrefs Files: Reference Files:
x802-3582ct.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	152
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ..AS..
CHECKED BY ..DdB..

Active Files: x60r365sht.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	153
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

385 380 375 370 365 360

CROSS SECTION SKEW = 45.0°

377.15

4.2% 1.2% 0.9% 1.2% 1.5% 4.2%

INV. EL. 364.89

TRIPLE 9' X 9' BOX CULVERT

INV. EL. 364.72

365+86.00 365+86.00

PP +21

EXIST R.O.W.

370.48

3:1

6% 1.6% 1.5% 377.10 1.5% 2% 6%

3:1

BOX CULVERT HEADWALL (FOR DETAILS SEE CHANNEL IMPROVEMENTS)

EXIST R.O.W.

WATER

GAS GAS

365+07.50

PROP. 48" STORM SEWER

PROP. 36" STORM SEWER

CUT= 15.32

FILL= 164.28

365+07.50

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

DRAWN BY ..AR..
CHECKED BY ..DJB..

Active Files
x60-352604.dgn

Reference Files

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	154
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

385 380 375 370 365

366+66.68

377.36 1.5% 2% 11.8% 373.11

GAS GAS

PROP. 24" STORM SEWER

PROP. CULVERT

366+66.68 PER

390 385 380 375 370 365

EXIST. R.O.W.

BOX CULVERT (FOR DETAILS SEE CHANNEL IMPROVEMENTS)

3:1 6% 2% 1.5% 377.31 1.5% 2% 6% 3:1 369.68 3:1

PROP. 24" STORM SEWER

WATER

GAS GAS

PROP. 24" STORM SEWER

CUT= 49.00

FILL= 237.38

366+50.00

EXIST. SAN SEWER

360

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ..AJC..

CHECKED BY ..DJB..

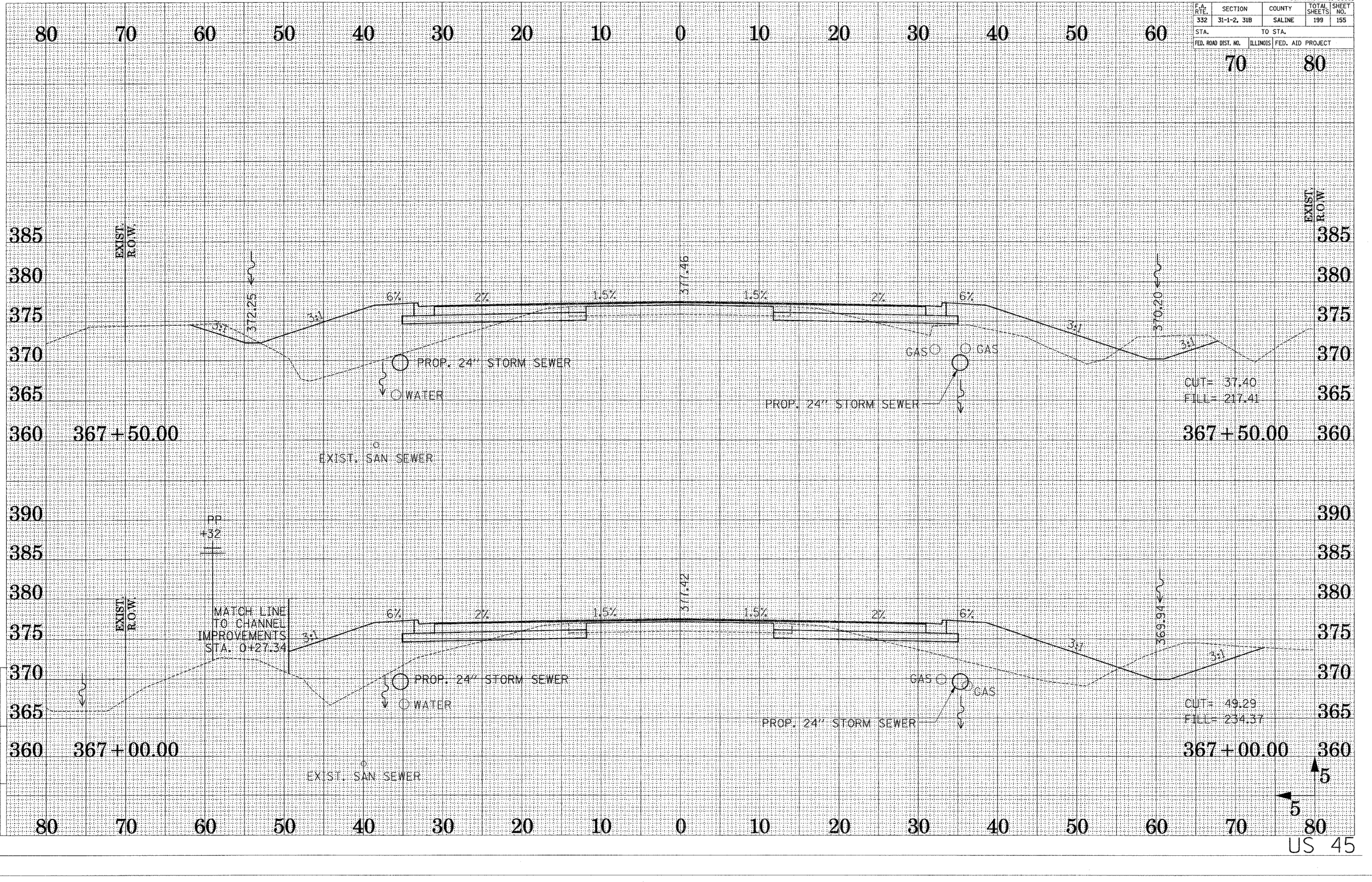
Reference Files

ksm02-3536-04.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	155
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...RS...
CHECKED BY ...DJB...

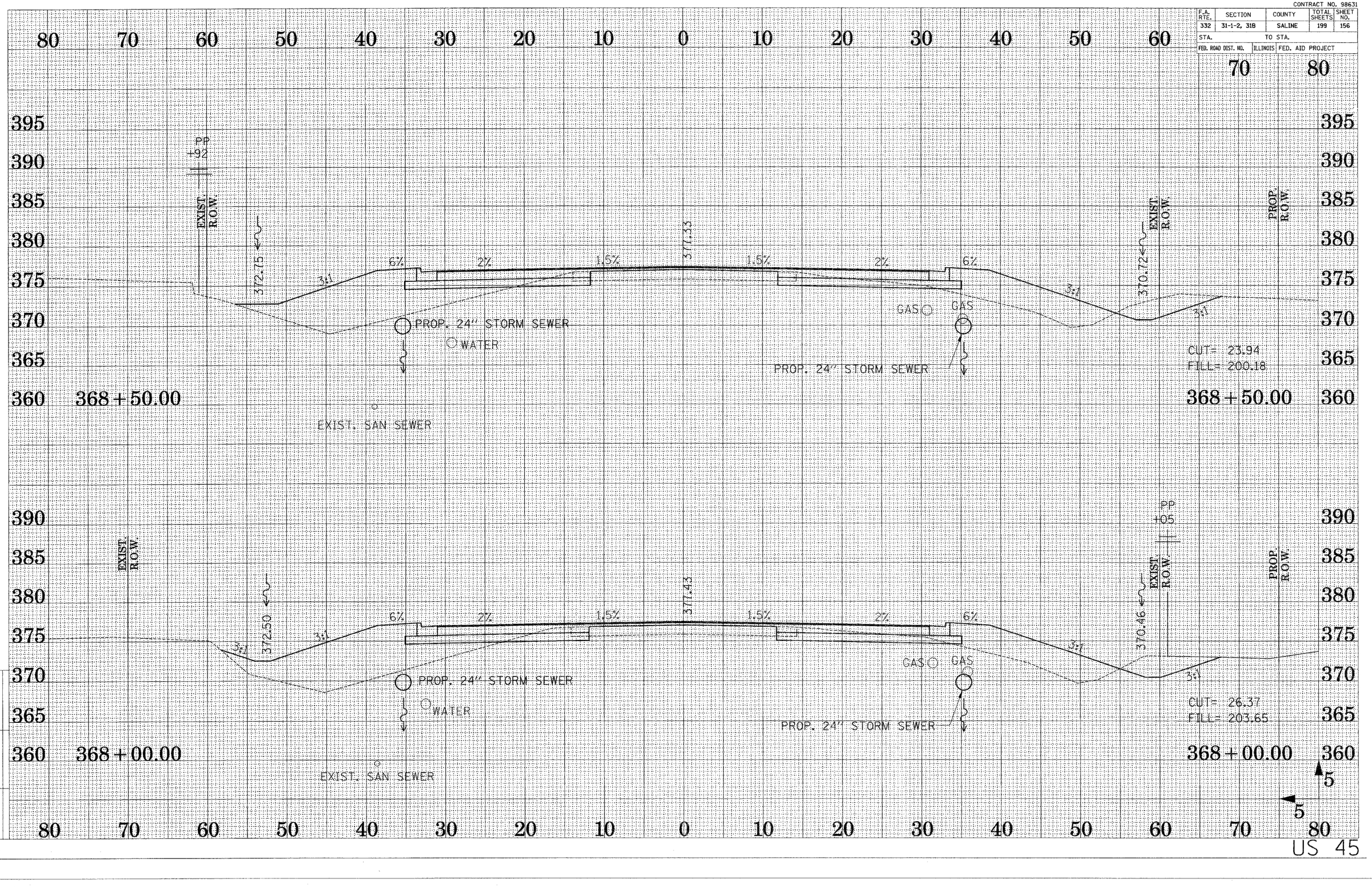
Reference Files

Active Files
x602-352bc4.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	156
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...RTC...
CHECKED BY ...RJR...

Reference Files

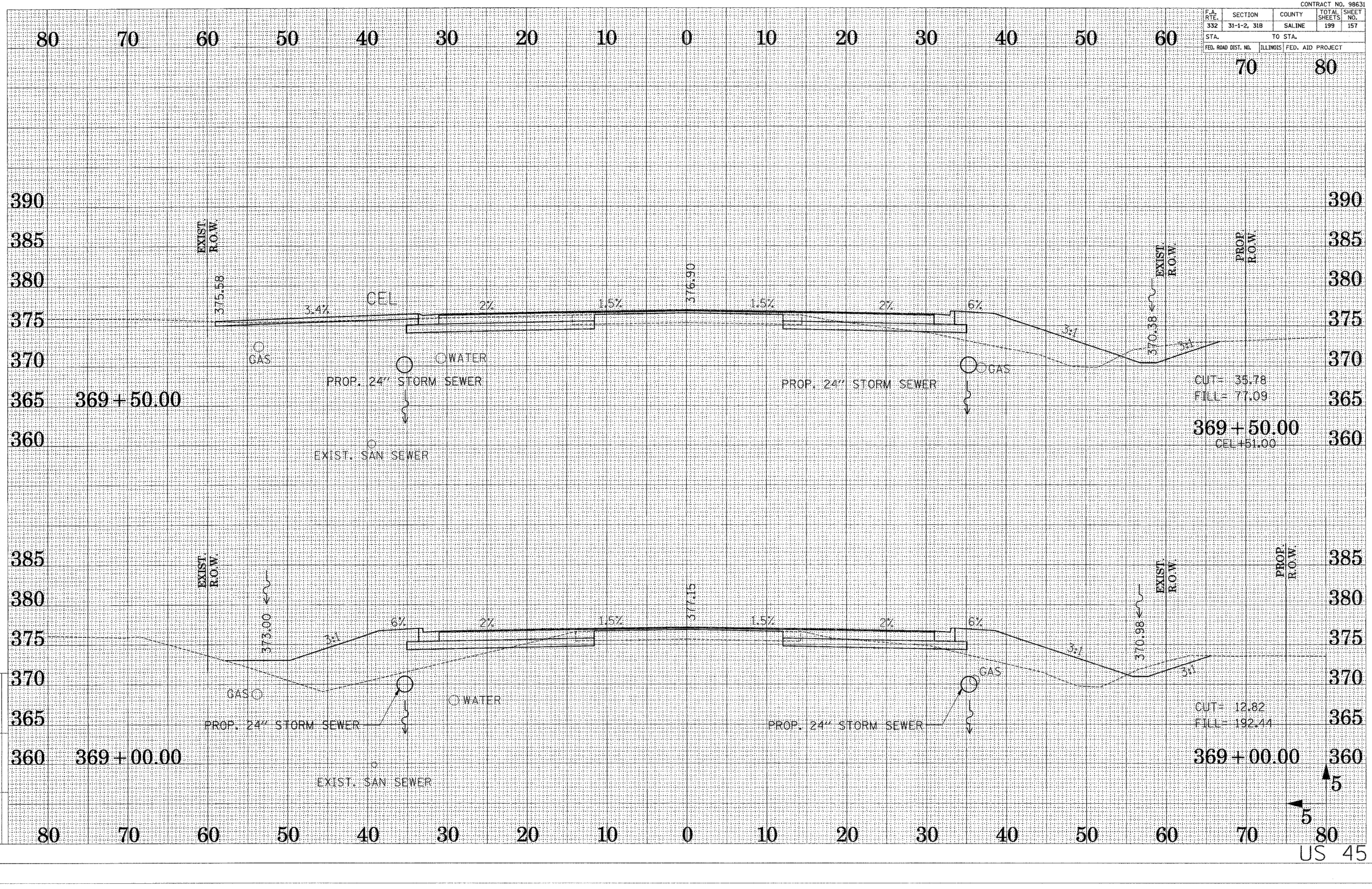
Active Files
x8x2-35264.dgn

5
5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	157
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...RS...
CHECKED BY ...DJB...

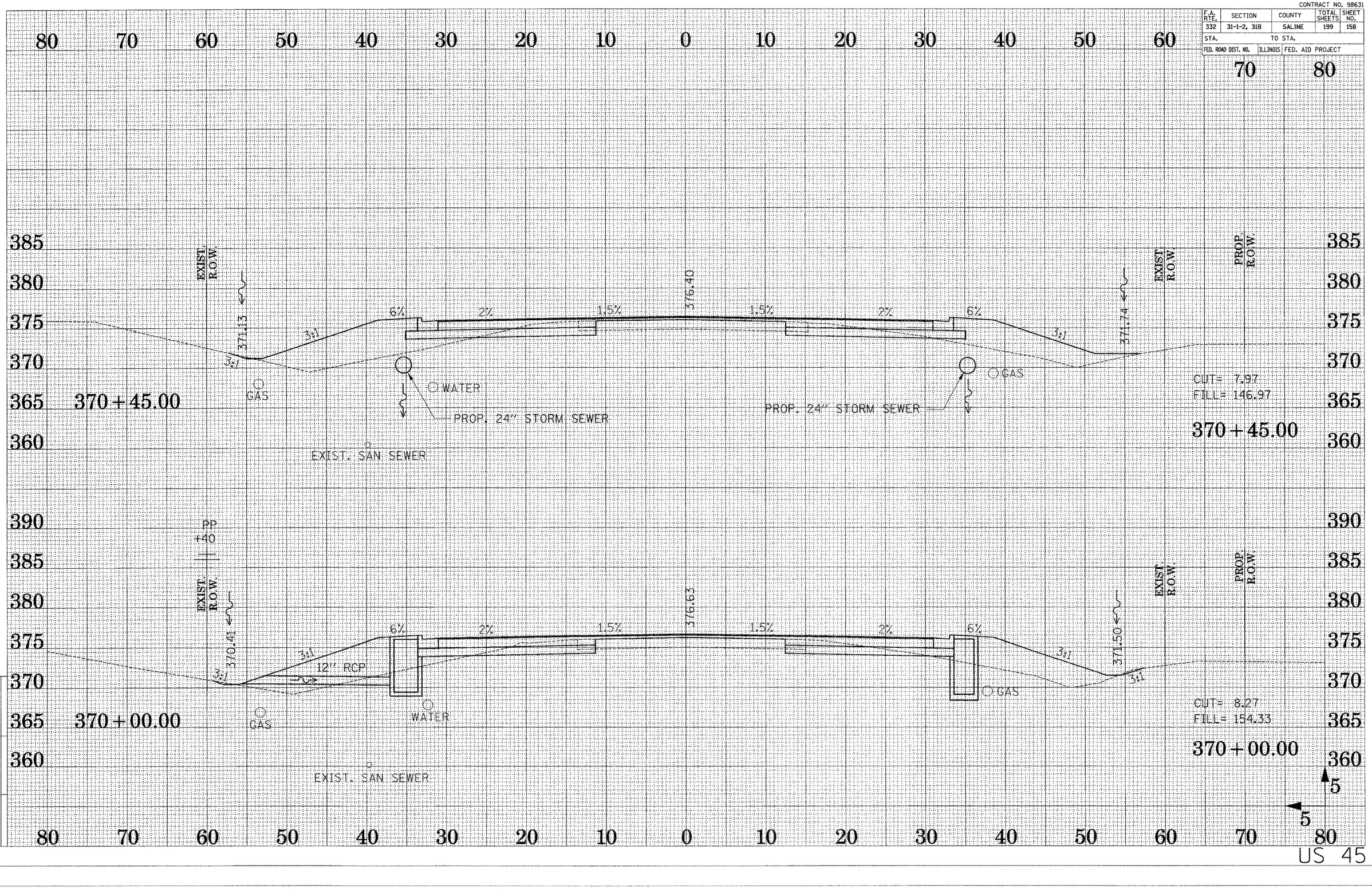
Reference Files

Active File: xs02-356c4.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	158
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AK...
CHECKED BY ...DJB...

Active Files: xs02-192ksd.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	159
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 360

EXIST R.O.W

371.13

3:1

6%

2%

1.5%

376.17

1.5%

2%

6%

3:1

371.97

EXIST R.O.W

PP +33

GAS

WATER

PROP. 24" STORM SEWER

GAS

PROP. 24" STORM SEWER

CUT= 6.93

FILL= 135.67

371+05.00

EXIST. SAN SEWER

371+05.00

EXIST R.O.W

375.25

3.2%

2%

1.5%

376.27

WATER

370+75.50

PROP. 24" STORM SEWER

EXIST. SAN SEWER

370+75.50

CEL

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

DRAWN BY ..AK..

CHECKED BY ..DJR..

Archive Files: x602-35265-dudgn

Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	160
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

385 380 375 370 365 360

EXIST. R.O.W.

3:1 370.91 3:1 6% 1.9% 1.5% 376.01 1.5% 1.9% 6% 3:1 371.42 EXIST. R.O.W.

371+95.00

GAS WATER GAS

PROP. 24" STORM SEWER PROP. 24" STORM SEWER

EXIST. SAN SEWER

STA. 372+18

CUT= 10.95 EXIST. 10" WATER
FILL= 119.92

371+95.00

390 385 380 375 370 365 360

PP +93 PP +88 EXIST. R.O.W.

3:1 370.90 3:1 6% 2% 1.5% 376.06 1.5% 2% 6% 3:1 371.70 EXIST. R.O.W.

371+50.00

GAS WATER GAS

PROP. 24" STORM SEWER PROP. 24" STORM SEWER

EXIST. SAN SEWER

CUT= 8.93 EXIST. 10" WATER
FILL= 127.70

371+50.00

5 5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

DRAWN BY ...AS...
CHECKED BY ...DJB...

References Files:

Active Files:
A012-3526-04.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	161
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

395 390 385 380 375 370 365 360

+89/PP
+85/PP

TEMP. EASEMENT

EXIST. R.O.W.

LP +72

371.96

5:1

6%

1.5%

1.5%

376.01

1.5%

6%

3:1

371.09

3:1

EXIST. R.O.W.

GAS

WATER

PROP. 24" STORM SEWER

WATER

EXIST. SAN SEWER

PROP. 24" STORM SEWER

GAS

WATER

EXIST. 10" WATER

372+50.00

CUT= 12.32
FILL= 113.55

372+50.00

EXIST. R.O.W.

374.78

5.6%

1.7%

1.5%

376.01

PROP. 24" STORM SEWER

WATER

EXIST. SAN SEWER

372+22.45

372+22.45

CEL

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

DRAWN BY ...RK...
CHECKED BY ...DJB...

Reference Files

xref0-3586x4.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	162
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 360

TEMP. EASEMENT

EXIST. R.O.W.

375.03

3:1 6% 1.6% 1.5% 376.04 1.5% 1.6% 6% 3:1

371.25

PP +76

EXIST R.O.W

GAS

WATER

PROP. 24" STORM SEWER

PROP. 24" STORM SEWER

GAS

WATER

EXIST. 8" WATER

EXIST. 10" WATER

CUT= 16.99

FILL= 53.02

373+50.00

EXIST. SAN SEWER

TEMP. EASEMENT

EXIST. R.O.W.

374.45

4.50 % 1.9% 1.5% 376.03 1.5% 1.9% 6% 3:1

371.00

EXIST R.O.W.

GAS

WATER

PROP. 24" STORM SEWER

GAS

WATER

EXIST. 10" WATER

CUT= 18.35

FILL= 58.25

373+00.00

CEL+09.00

373+00.00

EXIST. SAN SEWER

5

5

DRAWN BY ...AS...

CHECKED BY ...DJB...

Active Files

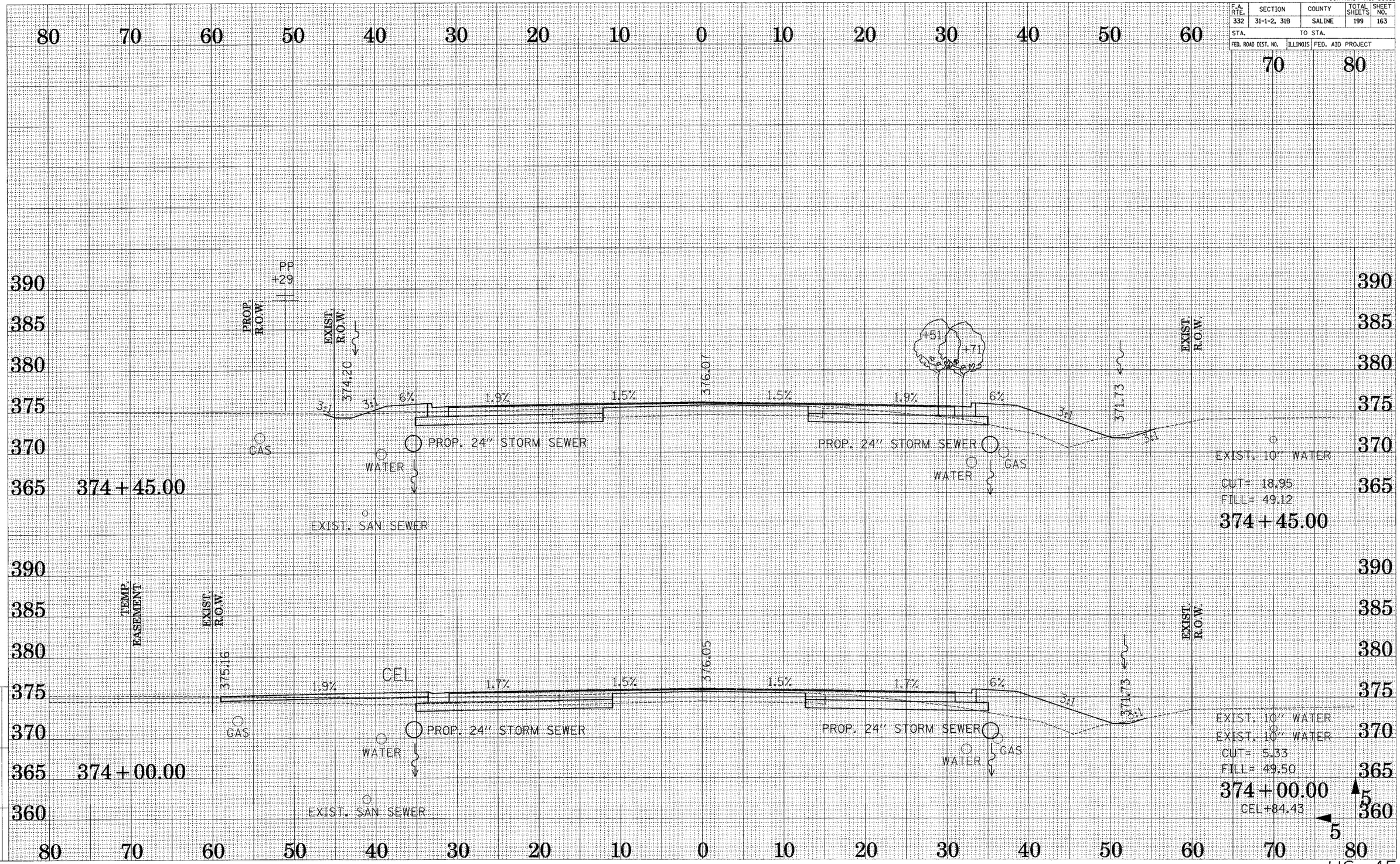
x302-3556-4.dgn

Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	163
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY AM
CHECKED BY DJB

References Files

Active Files
x332-3826-Log1

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	164
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365

PROP. R.O.W.

EXIST. R.O.W.

PP +32

373.70

3:1 6% 1.6% 1.5% 376.08 1.5% 1.6% 6% 3:1 3:1

372.06

PP +44

EXIST. R.O.W.

GAS

PROP. 24" STORM SEWER

WATER

PROP. 24" STORM SEWER

GAS

WATER

EXIST. 10" WATER

EXIST. 10" WATER

CUT= 27.62

FILL= 20.75

375+10.00

EXIST. SAN SEWER

PROP. R.O.W.

EXIST. R.O.W.

374.60

6.5% 1.7% 1.5% 376.08

PROP. 24" STORM SEWER

374+78.25

CEL

EXIST. SAN SEWER

5

5

US 45

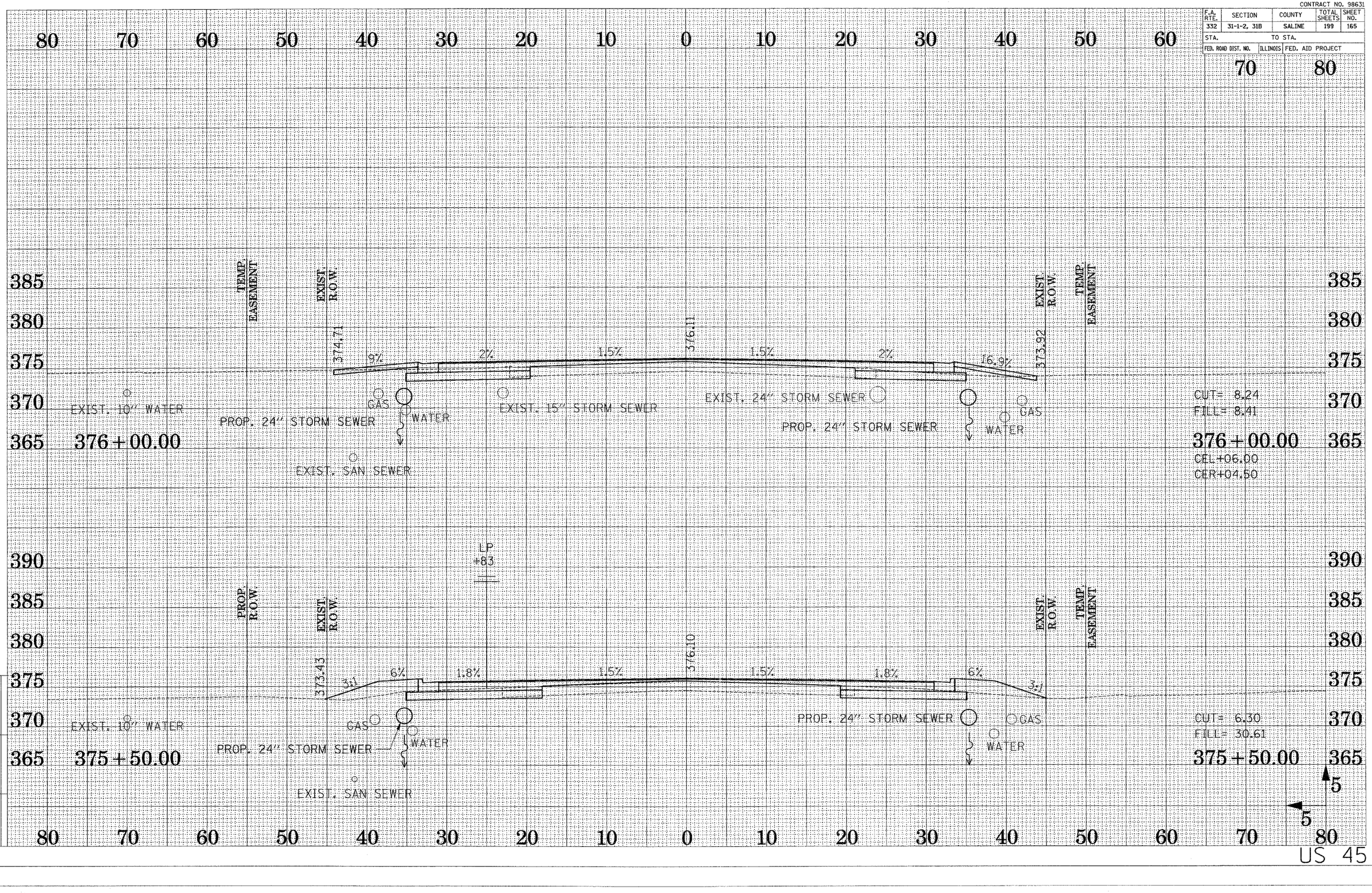
DRAWN BY ...AH...
CHECKED BY ...DJB...

Reference Files:

Active File:
d402-3556-d.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	165
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AK...
CHECKED BY ...DJB...

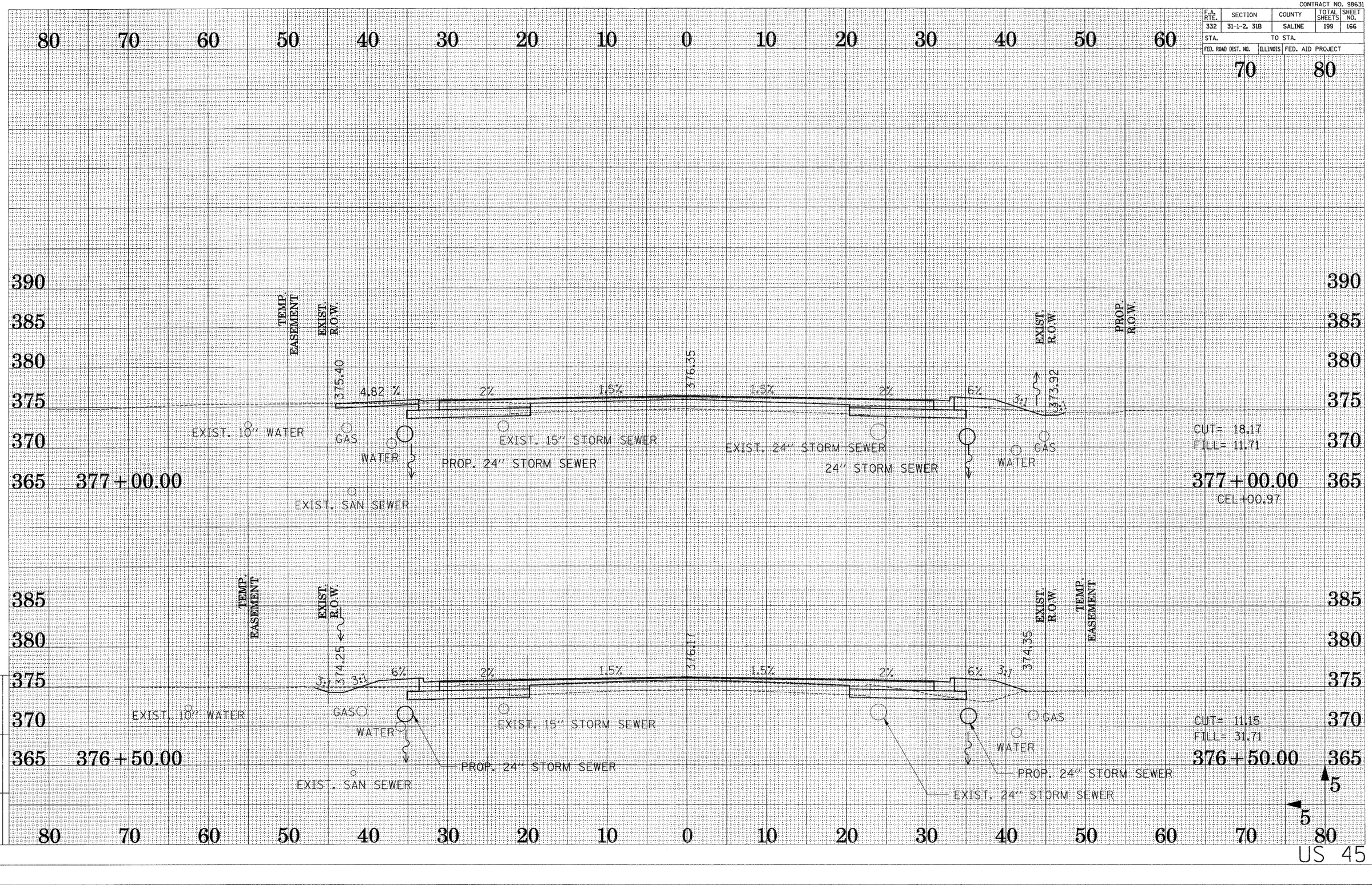
Active Files
x002-358654.dgn

Reference Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	166
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AK...
CHECKED BY ...DJB...

Active Files: x1602-35156-d.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	167
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

400 395 390 385 380 375 370 365

PP +36

TEMP. EASEMENT

EXIST. R.O.W.

376.18

3.5%

2%

1.5%

377.01

1.5%

2%

6%

375.60

375.86

EXIST. R.O.W.

TEMP. EASEMENT

PROP. R.O.W.

PP +12

EXIST. 10" WATER

GAS

WATER

EXIST. SAN SEWER

EXIST. 12" STORM SEWER

PROP. 24" STORM SEWER

EXIST. 24" STORM SEWER

24" STORM SEWER

WATER

GAS

CUT= 22.20

FILL= 5.83

378+00.00

CEL+10.00

TEMP. EASEMENT

EXIST. R.O.W.

375.09

3:1

3:1

6%

2%

1.5%

376.66

1.5%

2%

6.46 %

PP +51

EXIST. R.O.W.

PROP. R.O.W.

374.89

EXIST. 10" WATER

GAS

WATER

EXIST. SAN SEWER

EXIST. 15" STORM SEWER

PROP. 24" STORM SEWER

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

WATER

GAS

CUT= 22.87

FILL= 7.68

377+50.00

CER+39.00

5

5

US 45

DRAWN BY ...AK...

CHECKED BY ...DVB...

Active Files: x602-352654.dgn

Reference Files:

CONTRACT NO. 98631

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	168
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...AS...
CHECKED BY ...DJB...

Active Files: x302-392604.dgn
Reference Files:

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365

TEMP EASEMENT
EXIST. R.O.W.
376.35
5.75 %
GAS
EXIST. 10" WATER
WATER
379+00.00
EXIST. 12" STORM SEWER
PROP. 24" STORM SEWER
2%
1.5%
377.41
1.5%
2%
2.1%
376.74
EXIST. R.O.W.
TEMP EASEMENT
GAS
EXIST. 24" STORM SEWER
PROP. 24" STORM SEWER
WATER

CUT= 25.73
FILL= 0.85
379+00.00
CEL=90.07
CER=06.38

TEMP EASEMENT
EXIST. R.O.W.
375.57
3:1
6%
2%
1.5%
377.26
1.5%
2%
6%
3:1
375.96
EXIST. R.O.W.
TEMP EASEMENT
EXIST. 10" WATER
GAS
WATER
378+50.00
EXIST. 12" STORM SEWER
PROP. 24" STORM SEWER
EXIST. 24" STORM SEWER
WATER
PROP. 24" STORM SEWER
GAS

CUT= 19.87
FILL= 9.17
378+50.00

5
5

US 45

CONTRACT NO. 98631

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	169
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365

TEMP. EASEMENT
EXIST. R.O.W.
376.60
3.8%
2%
1.5%
377.45
EXIST. 10" WATER
CAS
WATER
379+68.00
EXIST. 12" STORM SEWER
PROP. 24" STORM SEWER
379+68.00
CEL

400 395 390 385 380 375 370 365

PP
+58
TEMP. EASEMENT
EXIST. R.O.W.
376.75
6%
2%
1.5%
377.46
1.5%
2%
6%
376.38
EXIST. 10" WATER
CAS
WATER
379+40.00
EXIST. 12" STORM SEWER
PROP. 24" STORM SEWER
EXIST. 24" STORM SEWER
PROP. 24" STORM SEWER
CAS
WATER
CUT= 20.04
FILL= 11.39
379+40.00
5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

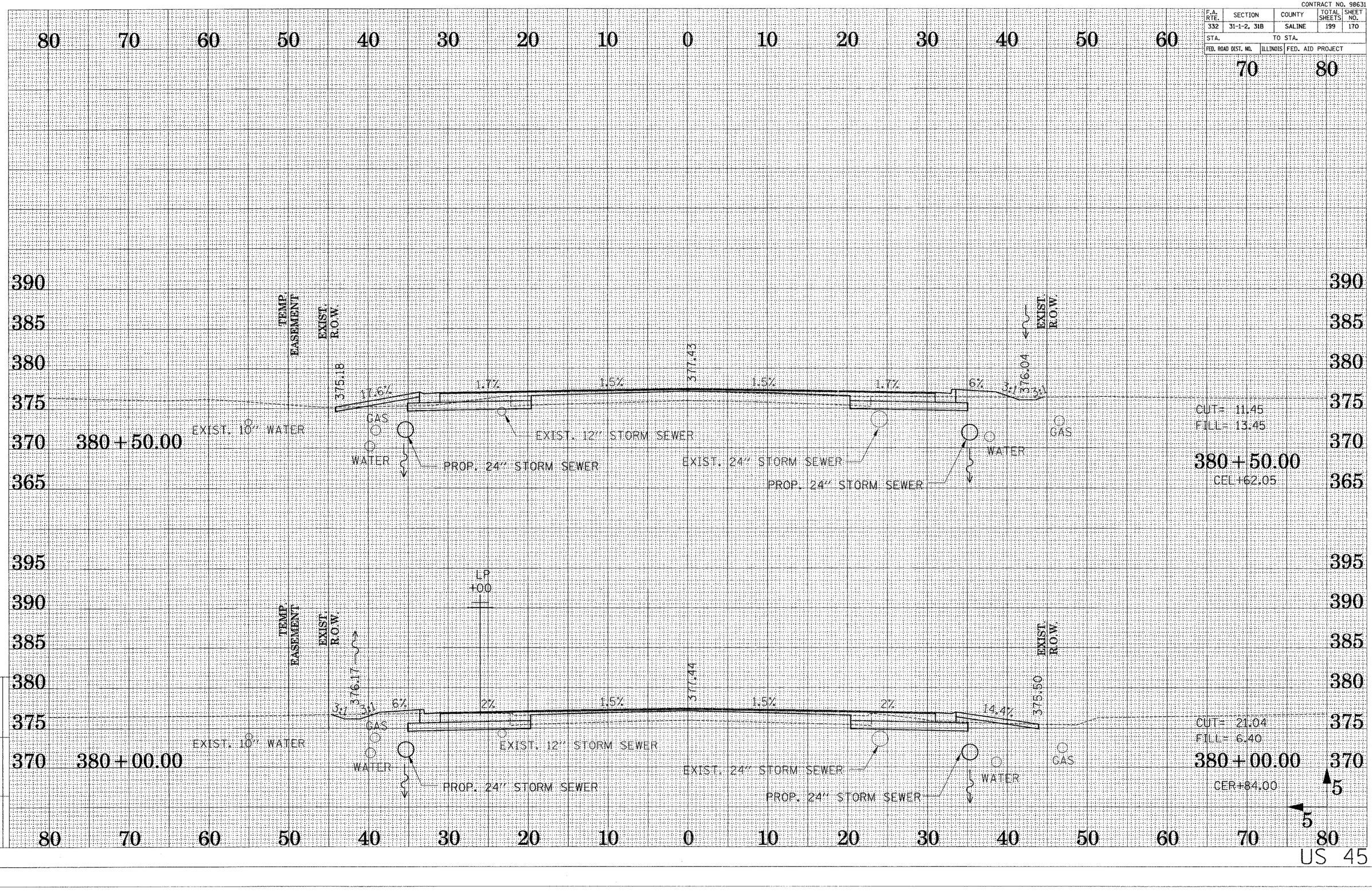
DRAWN BY ...RJS...
CHECKED BY ...DJB...

Active Files
x302 35264.dgn

References Files

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	170
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ..AJS..
CHECKED BY ..DJR..

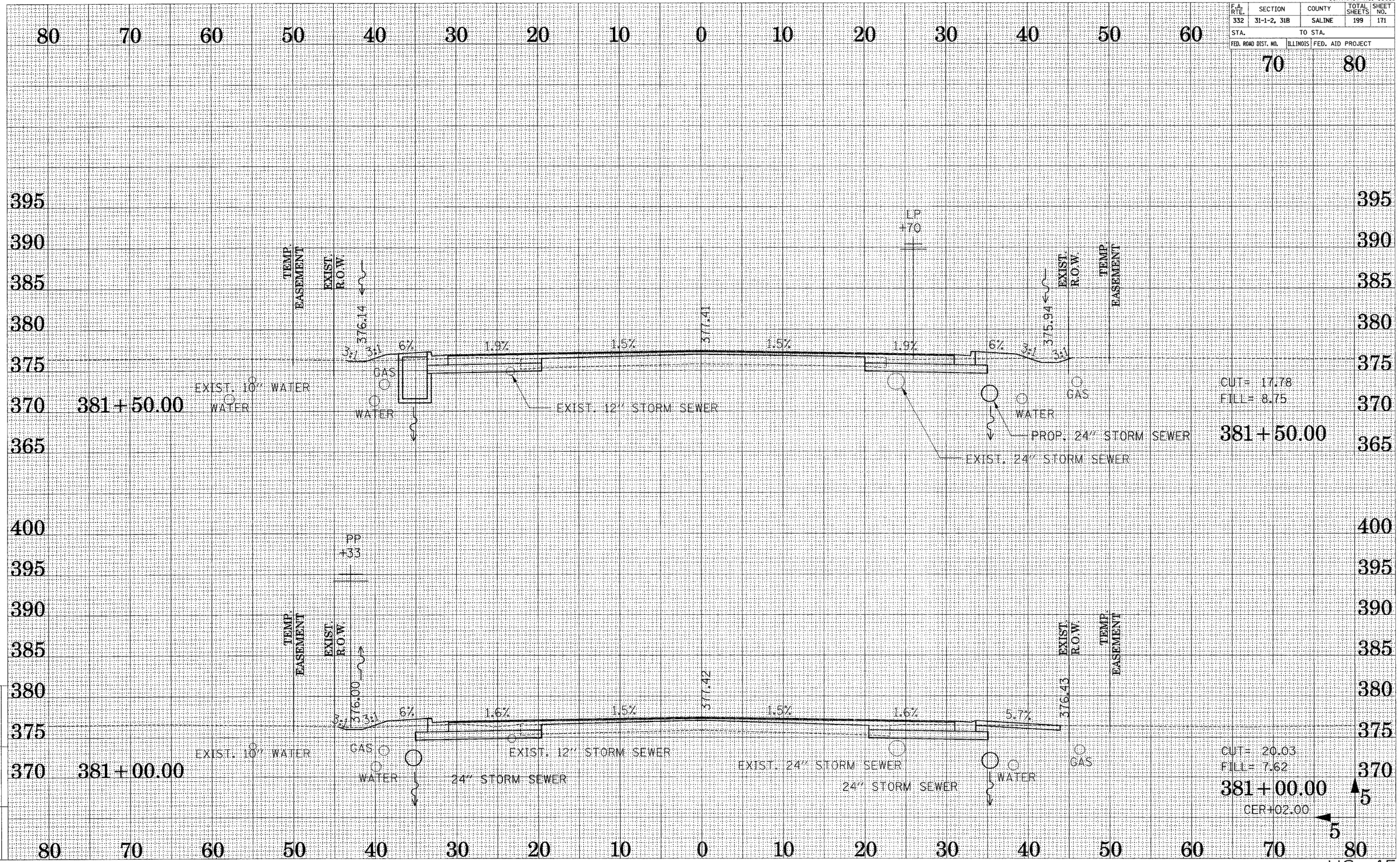
Reference Files:

Active Files:
x802-3536-01-dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	171
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

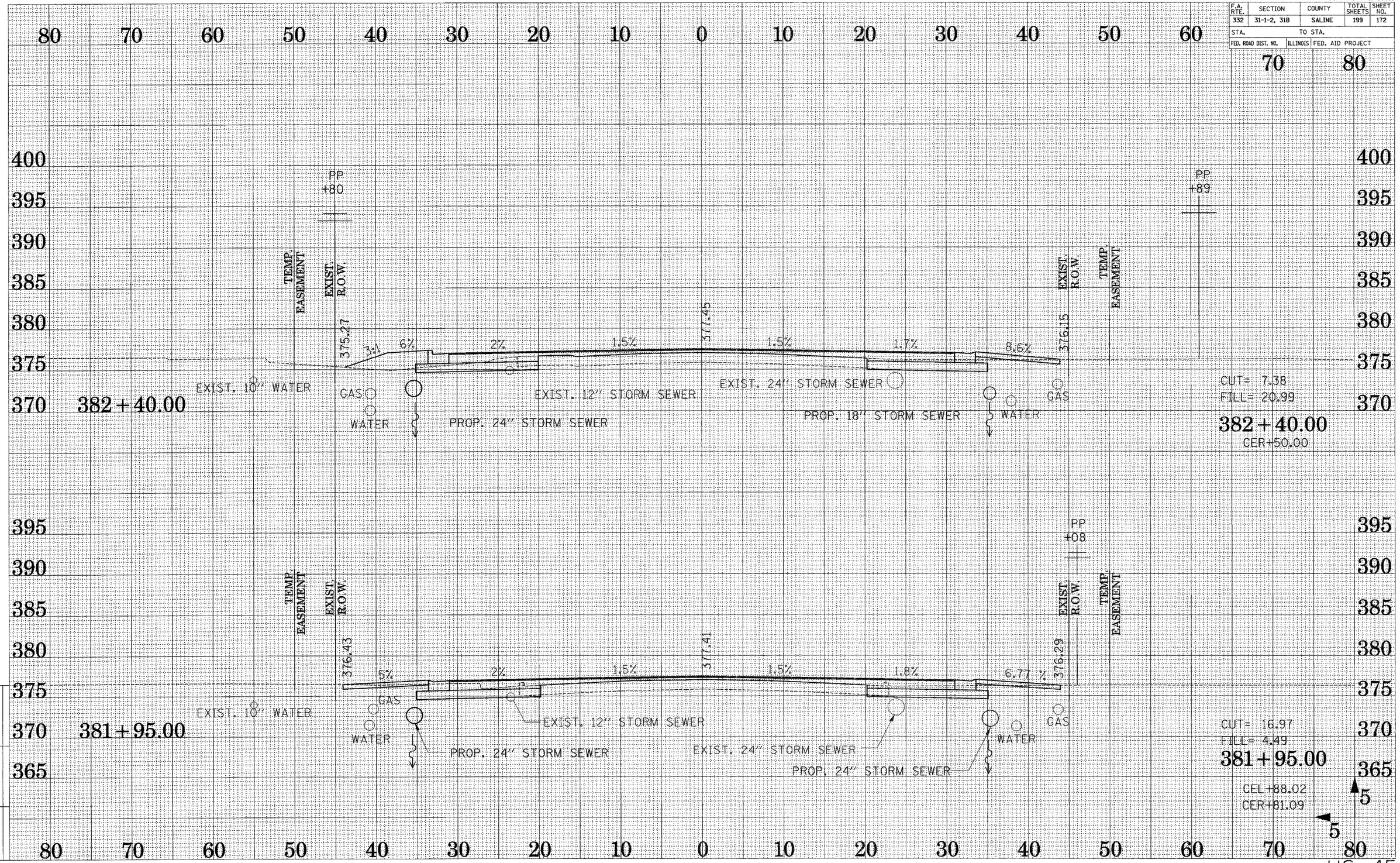


DRAWN BY ...AM...
CHECKED BY ...DJB...

Active Files: x:\02-35864\dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	172
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AS...
CHECKED BY ...DJB...

Active File: x402-355c4.dgn
References Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 318	SALINE	199	173
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY --JVC--
CHECKED BY --DJB--

Active Files
xref: 3636c4.dgn

Reference Files

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365

TEMP EASEMENT
EXIST R.O.W.
375.95
6:1
3:1
6%
2%
1.5%
377.70
1.5%
2%
6%
6:1
3:1
375.80
EXIST R.O.W.
TEMP EASEMENT

GAS
EXIST. 10" WATER
EXIST. 12" STORM SEWER
EXIST. 24" STORM SEWER
WATER
GAS
WATER
PROP. 24" STORM SEWER
PROP. 18" STORM SEWER

383+50.00
CUT= 5.61
FILL= 31.70
383+50.00

TEMP EASEMENT
EXIST R.O.W.
376.11
9.6%
2%
1.5%
377.57
1.5%
2%
7.1%
376.38
EXIST R.O.W.
TEMP EASEMENT

EXIST. 10" WATER
EXIST. 12" STORM SEWER
EXIST. 24" STORM SEWER
GAS
WATER
PROP. 24" STORM SEWER
PROP. 18" STORM SEWER
WATER
GAS

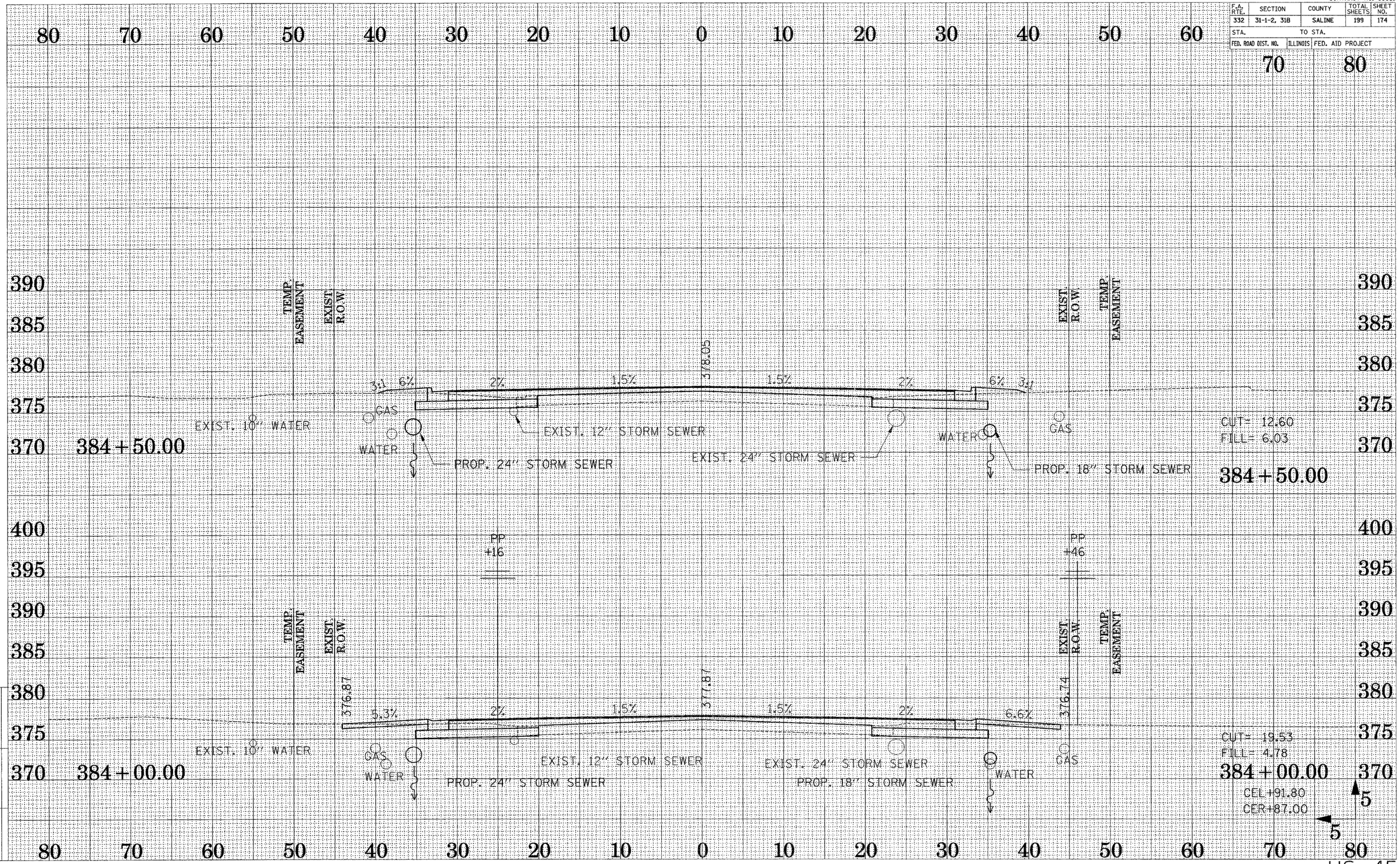
383+05.00
CUT= 9.64
FILL= 17.92
383+05.00
CEL
CER+19.00

5
5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	174
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



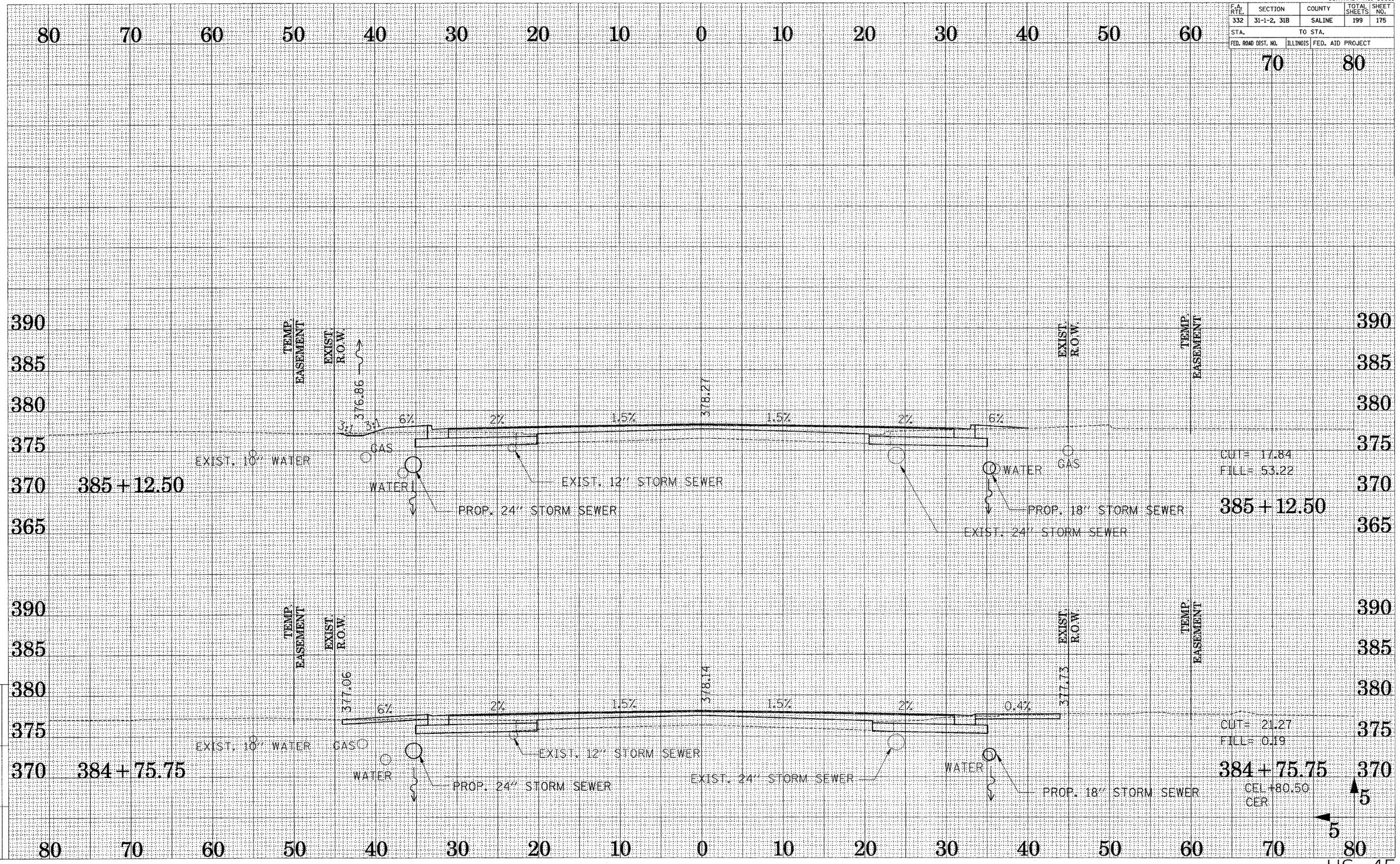
DRAWN BY JAS
CHECKED BY DJB

Active Files: x302-382654.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	175
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ..AS..
CHECKED BY ..RJB..

Active File:
002-98631-dgn

Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	176
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY JDL
CHECKED BY DJB

Active Files: X60?-3586404.dgn
Reference Files:

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

390 385 380 375 370 365 395

385+66.50

385+40.00

EXIST. 10" WATER

GAS

WATER

PROP. 24" STORM SEWER

EXIST. 12" STORM SEWER

EXIST. 24" STORM SEWER

PROP. 18" STORM SEWER

EXIST. 18" STORM SEWER

TEMP. EASEMENT

EXIST. R.O.W.

PP +68

376.88

378.45

378.36

377.82

1.5%

2%

1.8%

6%

3:1

CUT= 33.56
FILL= 9.87

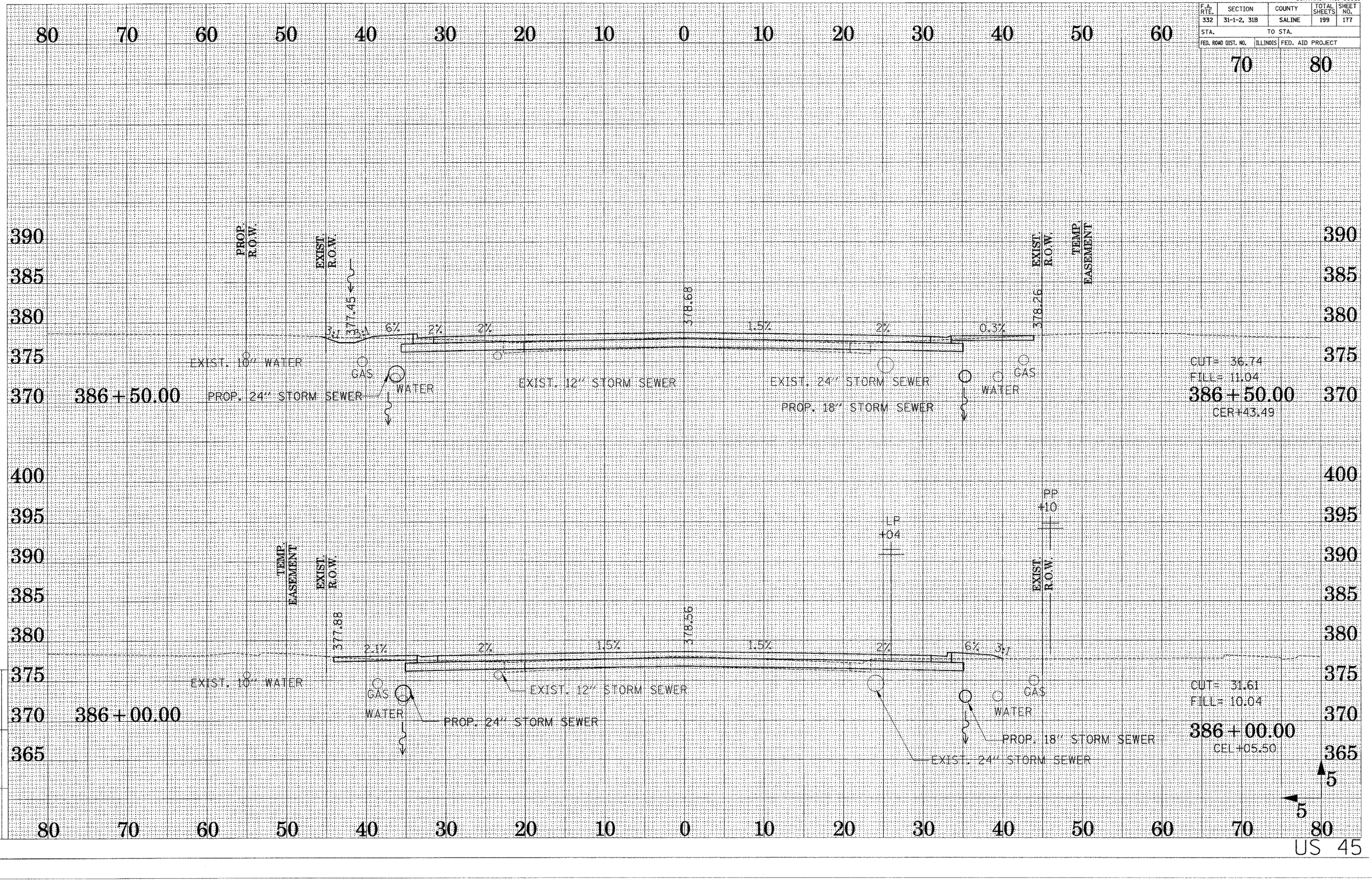
CER

5

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	177
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AM...
CHECKED BY ...DJB...

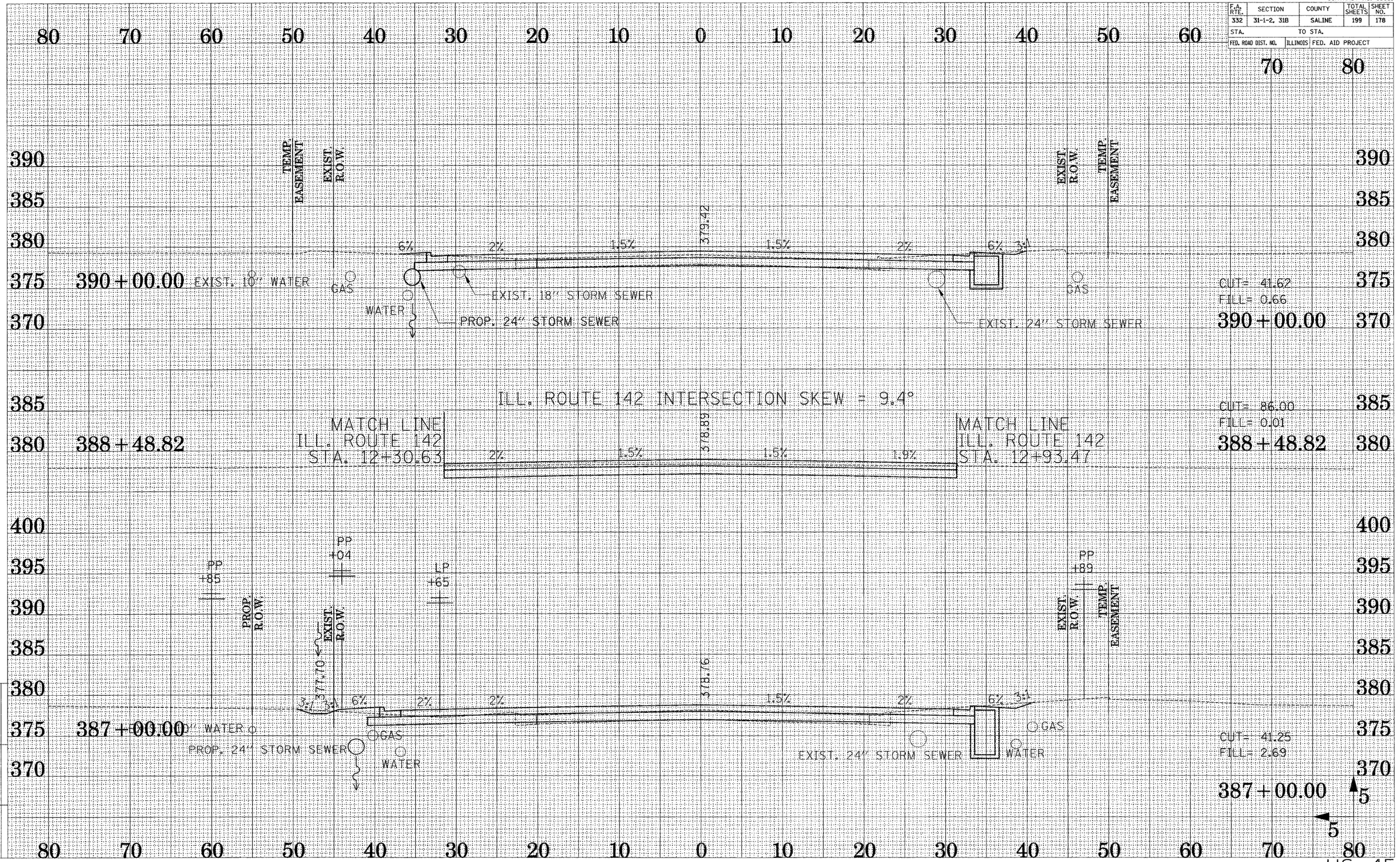
Active File
#402-365614.dgn

Reference Files

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	178
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...MG...
CHECKED BY ...DJB...

Reference Files

Active Files
x80_392c4dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	179
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

395 390 385 380 375

TEMP. EASEMENT | EXIST. R.O.W. | 378.95 | 3% | 3% | 6% | 2% | 1.5% | 380.04 | 1.5% | 2% | 6% | 3% | 3% | 378.85 | EXIST. R.O.W. | TEMP. EASEMENT

PP +42

391+00.00 EXIST. 10" WATER

GAS WATER

EXIST. 18" STORM SEWER

EXIST. 24" STORM SEWER

GAS

EXIST. SAN. SEWER

CUT= 44.56
FILL= 3.68

391+00.00

400 395 390 385 380 375

PP +79 | PP +92

TEMP. EASEMENT | EXIST. R.O.W. | 6% | 2% | 1.5% | 379.70 | 1.5% | 0% | 379.25 | EXIST. R.O.W. | TEMP. EASEMENT

390+50.00 EXIST. 10" WATER

GAS WATER

EXIST. 18" STORM SEWER
PROP. 24" STORM SEWER

EXIST. 24" STORM SEWER

GAS

PROP. 24" STORM SEWER

CUT= 42.44
FILL= 2.03

390+50.00

CER+37.00

5 5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

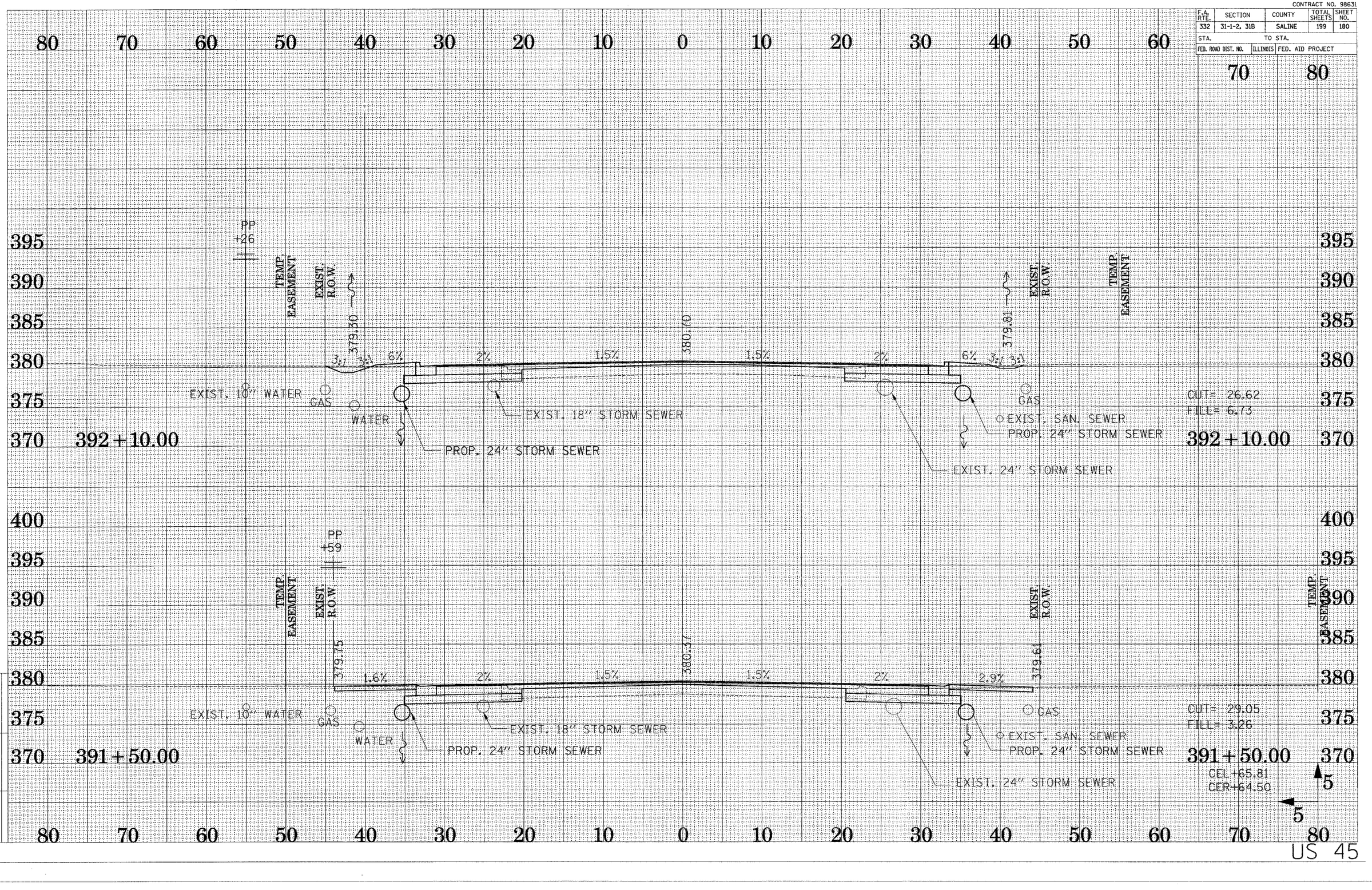
US 45

DRAWN BY ...AM...
CHECKED BY ...DJB...

Light's Files
Reference Files
...402-3505-1.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	180
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...AT...
CHECKED BY ...DVR...

Active Files: x80r-352dc4.dgn
Reference Files:

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	181
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...AR...
CHECKED BY ...DJB...

Active File: c802-3536c4.dgn
Reference Files:

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

400 395 390 385 380 375 370 365

TEMP. EASEMENT
EXIST. R.O.W.
379.80
3:1 6%
LP +35
2%
1.5%
381.06
1.5%
2%
6%
3:1
379.36
EXIST. R.O.W.
PP +85
TEMP. EASEMENT

EXIST. 10" WATER
GAS
WATER
EXIST. 18" STORM SEWER
PROP. 24" STORM SEWER
GAS
EXIST. SAN. SEWER
PROP. 15" STORM SEWER
PROP. 24" STORM SEWER
EXIST. 24" STORM SEWER

393+00.00

CUT= 21.26
FILL= 11.49

393+00.00

TEMP. EASEMENT
EXIST. R.O.W.
380.48
0.4%
2%
1.5%
380.88
1.5%
2%
6%
3:1
379.61
EXIST. R.O.W.
TEMP. EASEMENT

392+50.00

EXIST. 10" WATER
GAS
WATER
EXIST. 18" STORM SEWER
PROP. 24" STORM SEWER
EXIST. 24" STORM SEWER
PROP. 24" STORM SEWER
GAS
EXIST. SAN. SEWER

CUT= 23.24
FILL= 6.25

392+50.00
CEL+54.00

5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	182
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

400 395 390 385 380 375 370

LP +17

TEMP EASEMENT

EXIST. R.O.W.

PP +27

380.78

0.4%

2%

1.5%

381.22

EXIST. 10" WATER

393+66.00

EXIST. 18" STORM SEWER

PROP. 24" STORM SEWER

393+66.00

CEL

CROSS SECTION SKEW = 17.5°

381.22

1.5%

2%

1.8%

EXIST. R.O.W.

CHOISSER STREET

PROP. 24" STORM SEWER

EXIST. SAN. SEWER

393+64.74

393+64.74

5

5

DRAWN BY ...

CHECKED BY ...

Reference Files:

Active Files:
x6e2-352bc4.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	183
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

395 390 385 380 375

TEMP. EASEMENT | EXIST. R.O.W. | EXIST R.O.W. | PROP. R.O.W. | TEMP. EASEMENT

381.32

3:1 6% 2% 1.5% 1.5% 2% 6% 3:1

EXIST. 10" WATER

PROP. 24" STORM SEWER

EXIST. 18" STORM SEWER

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

394+50.00

CUT= 18.48
FILL= 8.29

394+50.00

380.00

381.27

378.75

3:1 3:1 6% 2% 1.5% 1.5% 2% 10.6 %

+03

EXIST. 10" WATER

EXIST. 18" STORM SEWER

PROP. 24" STORM SEWER

EXIST. 24" STORM SEWER

394+00.00

CUT= 23.80
FILL= 22.29

394+00.00

CER+05.91

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

US 45

DRAWN BY ...AJS...
CHECKED BY ...DJB...

Active Files: x302-352ec4.dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	184
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

395 390 385 380

395+31.47

EXIST. 10" WATER

EXIST. 4" WATER

EXIST. R.O.W.

END IMPROVEMENT STA. 395+31.47

381.19

6% 2% 1.5% 1.5% 2% 6% 3:1

EXIST. R.O.W.

PROP. R.O.W.

TEMP. EASEMENT

CUT= 0.00
FILL= 4.81

395+31.47

400 395 390 385 380 375 370

PP +13

TEMP. EASEMENT

EXIST. R.O.W.

380.78

381.34

1.9% 2% 1.5% 1.5% 2% 2.0%

380.58

EXIST. R.O.W.

PROP. R.O.W.

TEMP. EASEMENT

EXIST. 10" WATER

PROP. 24" STORM SEWER

PROP. 24" STORM SEWER

EXIST. 24" STORM SEWER

CUT= 19.42
FILL= 0.83

394+95.00

394+95.00
CEL +00.00
CER+81.33

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY _dm_
CHECKED BY _DJR_

Active Files
Reference Files
x82-352642.dgn

US 45

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	185
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

395 390 385 380 375 370 365

EXIST. R.O.W.

381.55 0.9% 1.5% 381.79 1.5% 1.5% 381.52

GAS

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

7+00.00

WATER

EXIST. CULVERT

CUT=33.1
FILL=0.0

BEGIN IMPROVEMENT STA. 6+92.63

6+80.00

DRAWN BY ...JKM...
CHECKED BY ...DJB...

Reference Files:

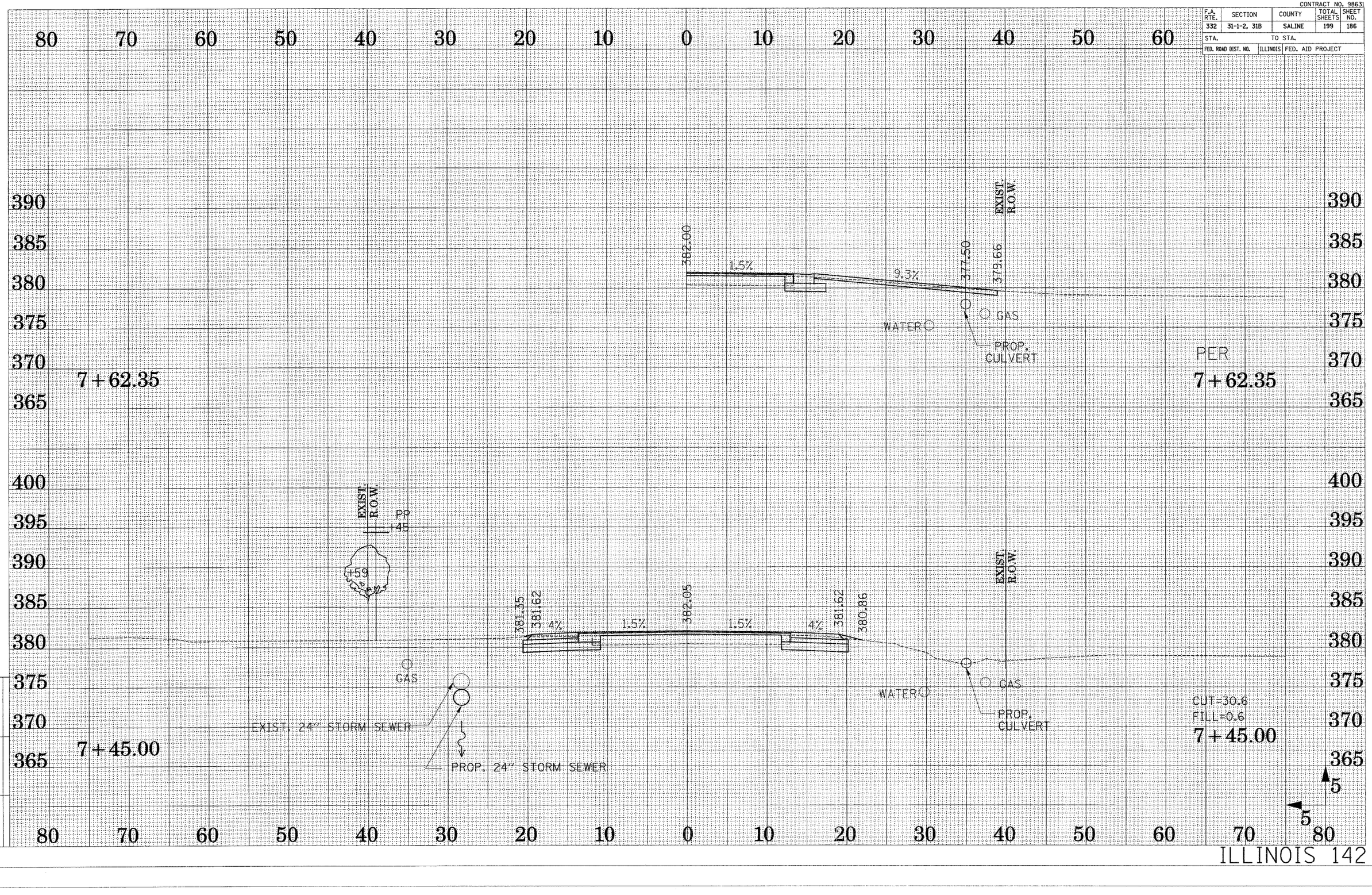
Active File:
X807-392BC4.dgn

5

ILLINOIS 142

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	186
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...JDIL...
CHECKED BY ...DJB...

Active Files: x803-35262c4.dgn
Reference Files:

ILLINOIS 142

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	187
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

395 390 385 380 375 370 365

PP +39 EXIST R.O.W.

+02

380.39 3:1 6% 1.5% 381.89 1.5% 6% 3:1 377.68 378.05 3:1

EXIST R.O.W. TP +18

PROP. R.O.W.

GAS WATER

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

WATER GAS

CUT=20.1
FILL=19.1

8+00.00

8+00.00

EXIST. R.O.W.

380.60 6.6% 1.5% 381.97

GAS WATER

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

PEL

7+72.52

7+72.52

5 5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

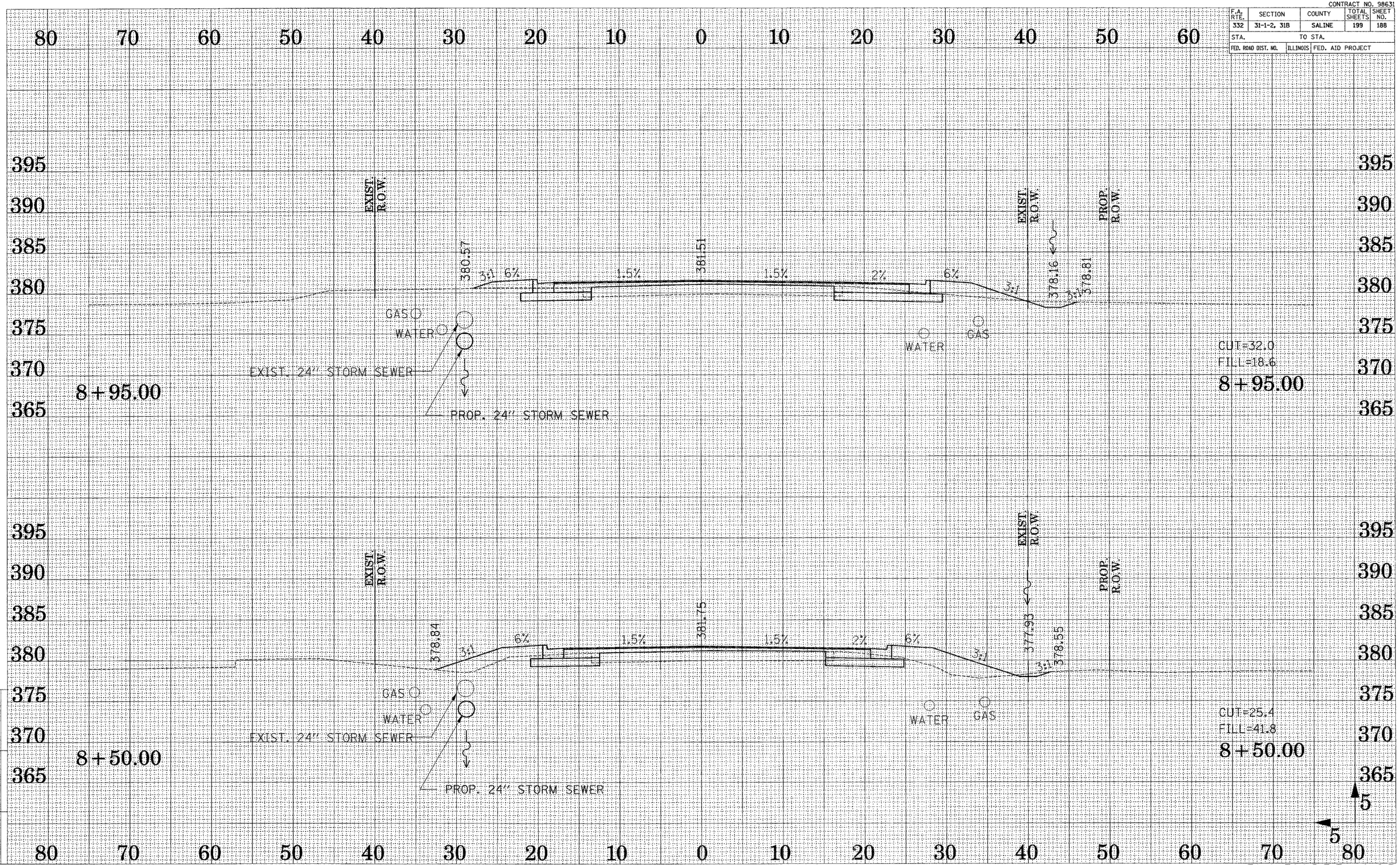
DRAWN BY ..JDS..
CHECKED BY ..DJR..

Reference Files:

Active File:
x607-326604.dgn

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	188
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

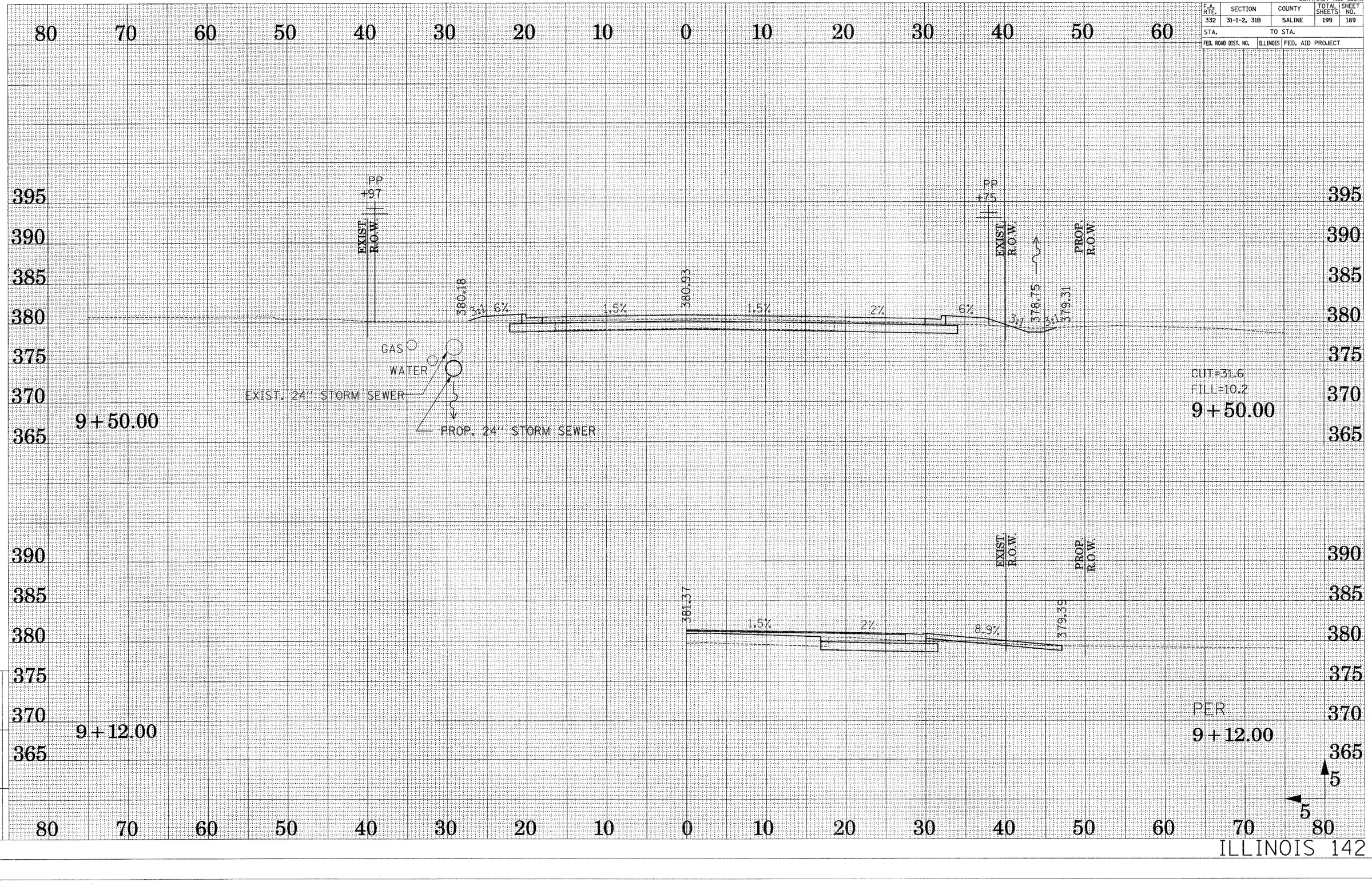


DRAWN BY ...SCSL...
CHECKED BY ...DJR...

Active File: x803-3626c4.dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	189
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY --JCH--
CHECKED BY --DJB--

Active File: x803-3826c4.dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	190
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...JDSL...
CHECKED BY ...DJE...

Reference Files

Active Files
x801-352ec4.dgn

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

390 385 380 375 370 365

EXIST. R.O.W.
PROP. R.O.W.
379.69
1.5%
2%
4.8%
378.86
CER
PROP. 15" STORM SEWER
10+41.07

PP +14
EXIST. R.O.W.
PROP. R.O.W.
379.33
3:1
6%
1.5%
380.25
1.5%
2%
6%
3:1
3:1
378.00
379.17
12"
GAS
WATER
EXIST. 24" STORM SEWER
PROP. 24" STORM SEWER
CUT=31.7
FILL=8.1
10+00.00

5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	191
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

390 385 380 375 370 365

CROSS SECTION SKEW = 7.4°

EXIST R.O.W.

378.57

1.6%

1.6%

379.17

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

10+79.83

CEL

10+79.83

EXIST R.O.W.

PROP R.O.W

EXIST R.O.W.

378.45

3:1

6%

1.5%

379.56

1.5%

2%

1.9%

378.75

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

PROP. 15" STORM SEWER

CER +41.07

CUT=28.1

FILL=5.0

10+50.00

10+50.00

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ..AUG..

CHECKED BY ..DJR..

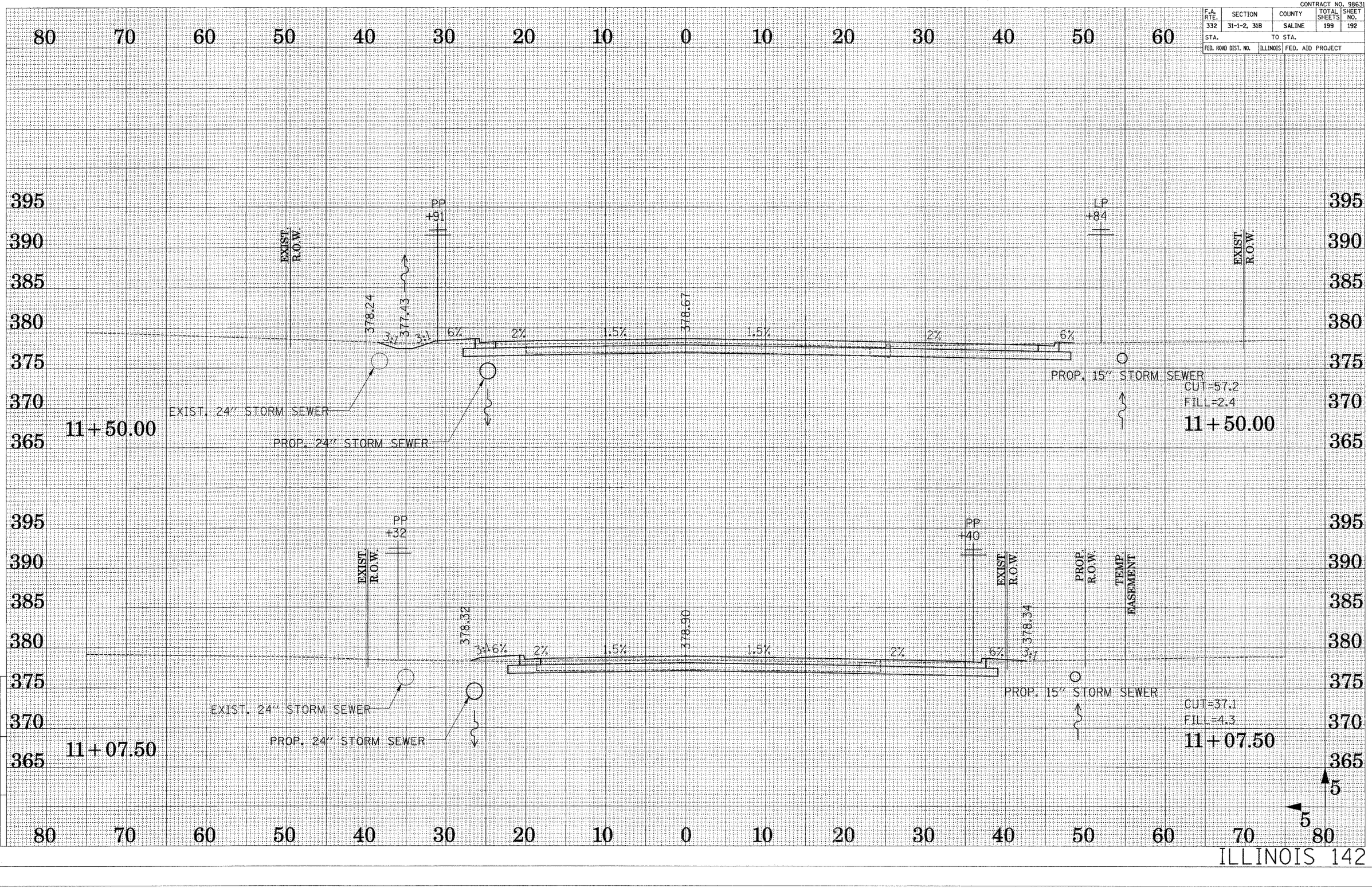
Reference Files

Active Files

x8d35-35260-Logo

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	192
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...DATE...
CHECKED BY ...DATE...

Active Files: x303-5576c4.dgn
Reference Files:

ILLINOIS 142

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	193
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

395 390 385 380 375 370 365

PP +99

EXIST. R.O.W.

378.68

1.5%

1.2%

378.18

WATER

EXIST. 24" STORM SEWER

CER

14+61.01

14+61.01

PROP. R.O.W.

EXIST. R.O.W.

378.17

6%

2%

1.5%

378.59

1.5%

2%

6%

EXIST. 24" STORM SEWER

WATER

PROP. 24" STORM SEWER

PP +01

EXIST. R.O.W.

WATER

CUT=23.7

FILL=6.3

14+00.00

14+00.00

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY ...JDD...

CHECKED BY ...DdB...

Active Files
x603-352e44.dgn

References Files:

ILLINOIS 142

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	194
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

395 390 385 380 375 370 365

PROP R.O.W

EXIST R.O.W

PP +26

377.85

2:1 6%

1.5%

378.75

1.5%

8.3%

377.98

EXIST R.O.W

PROP. 24" STORM SEWER

EXIST. 12" STORM SEWER

WATER

EXIST. 12" STORM SEWER

CUT=14.2

FILL=5.1

15+05.00

15+05.00

PROP R.O.W

EXIST R.O.W

378.13

2.1%

1.5%

378.70

EXIST. 24" STORM SEWER

PROP. 24" STORM SEWER

CEL

14+74.85

14+74.85

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

DRAWN BY --JGD--
CHECKED BY --DJB--

Active Files
x80J-3506ck.dgn

Reference Files

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	195
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

390
385
380
375
370
365

PROP. R.O.W.
EXIST. R.O.W.

377.90 4.6% 1.5% 378.83

PROP. 24" STORM SEWER
EXIST. 12" STORM SEWER

15+57.26

CEL
15+57.26

PROP. R.O.W.
EXIST. R.O.W.

377.86 4.8% 1.5% 378.82 1.5% 9.3% 377.99

EXIST. R.O.W.

CEL +57.26

EXIST. 12" STORM SEWER
WATER

CUT=21.1
FILL=0.0

PROP. 24" STORM SEWER
EXIST. 12" STORM SEWER

15+50.00

15+50.00

5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

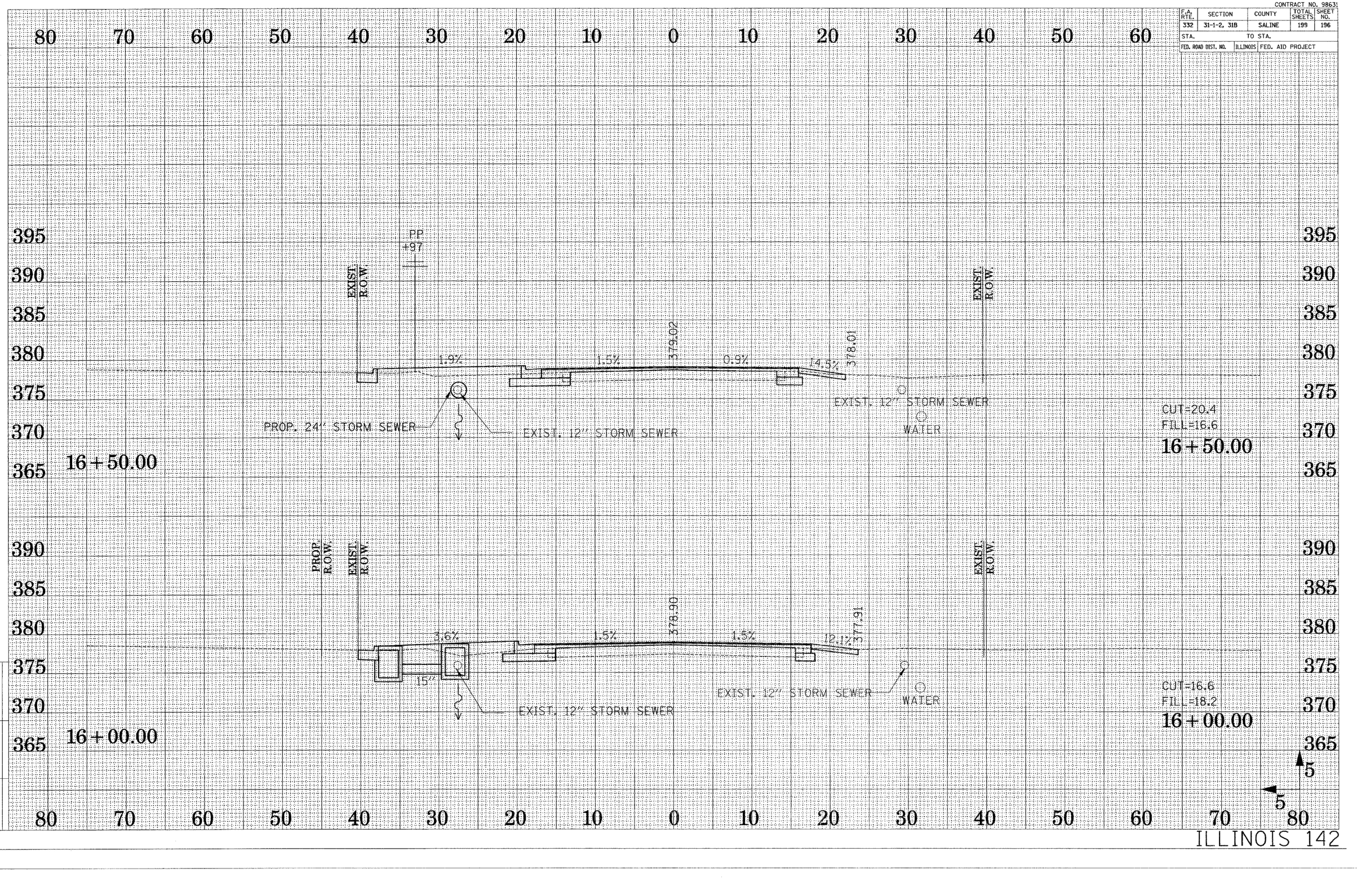
DRAWN BY ...JKG...
CHECKED BY ...DJB...

Active Files: x303-332654.dgn
Reference Files:

ILLINOIS 142

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	196
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



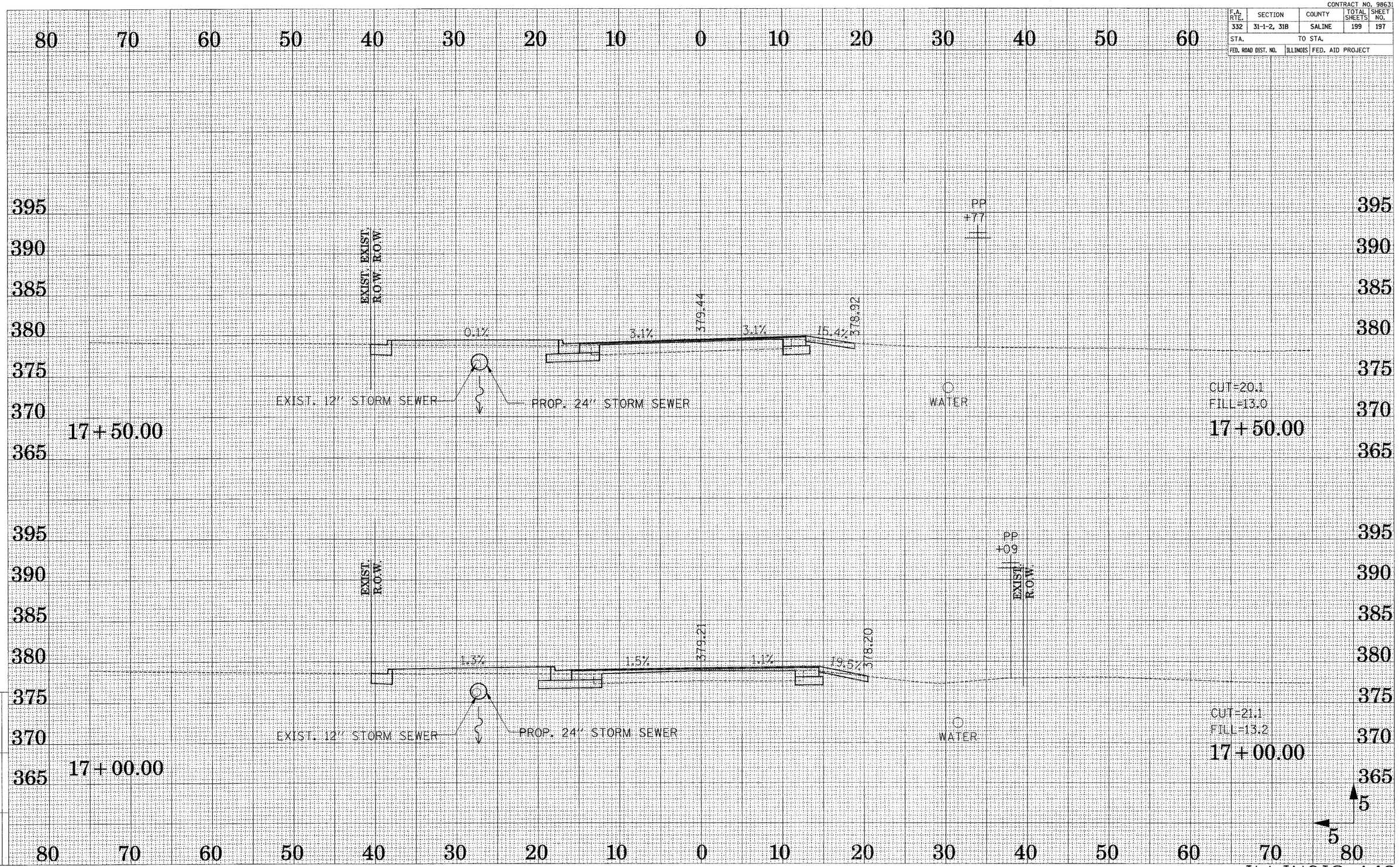
DRAWN BY ...JKH...
CHECKED BY ...DJR...

Active Files
x403-39264.dgn

Reference Files

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	197
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DRAWN BY ...JSD...
CHECKED BY ...DJR...

Active Files: x402-2526-s4.dgn
Reference Files:

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	198
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ...RSH...
CHECKED BY ...DJB...

Active Files
x403-3585c4.dgn

Reference Files:

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

395 390 385 380 375 370 365

EXIST. R.O.W.

PP #05

1% 4.7% 4% 379.52 4% 11.1% 379.30

PROP. 24" STORM SEWER

EXIST. 12" STORM SEWER

WATER

18+00.00

CUT=10.5
FILL=0.0

18+00.00

EXIST. R.O.W.

378.81 1% 4% 379.55 4% 13.9% 379.20

EXIST. 12" STORM SEWER

PROP. 24" STORM SEWER

WATER

17+79.34

CEL

CUT=23.8
FILL=0.0

17+79.34

5

5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

CONTRACT NO. 98631

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	31-1-2, 31B	SALINE	199	199
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAWN BY ..JCB..
CHECKED BY ..DJR..

Active Files
x031-3586c4.dgn

Reference Files

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

385
380
375

18+15.66

END IMPROVEMENT STA. 18+15.66

378.88
6%
4%
379.48
4%
2%
379.36

CUT=3.8
FILL=0.0
18+15.66

WATER

5
5

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

ILLINOIS 142