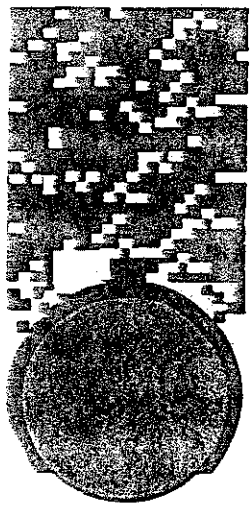
Volume II

Strategic Regional Arterial

Illinois Route 47
from US Route 30 (Base Line Road) to
Price Road (Illinois Route 173
SRA Alternative Alignment)

FINAL REPORT



Operation GreenLight

Illinois Department of Transportation
August, 1995

Exhibit ILL47-01a
Illinois Route 47 (US Route 30)

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

SEGMENT 1

INTERSECTION DIAGRAM

US Route 30 & ILL Route 47
(See US Route 30 SRA Report)

Jericho Rd & ILL Route 47

SIGNAL SPACING

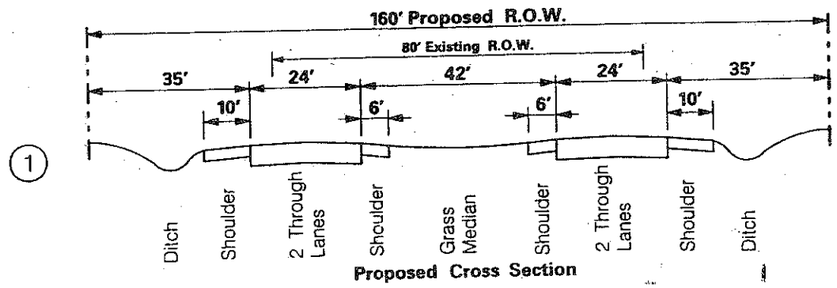
2000'

9850'

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-REPLACE EXISTING STRUCTURE OVER ROB ROY CREEK WITH TWO STRUCTURES
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AT US ROUTE 30

Exhibit ILL47-01b
Illinois Route 47 (US Route 30)

PROPOSED IMPROVEMENTS

Legend
SN — Structure Number, Existing Structure
+20 — Cul-De-Sac, Additional Right-Of-Way
New Signal, Existing Signal
Flashing Signal, Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn. ITS Date 5/95 Chkd. SAW Date 5/95

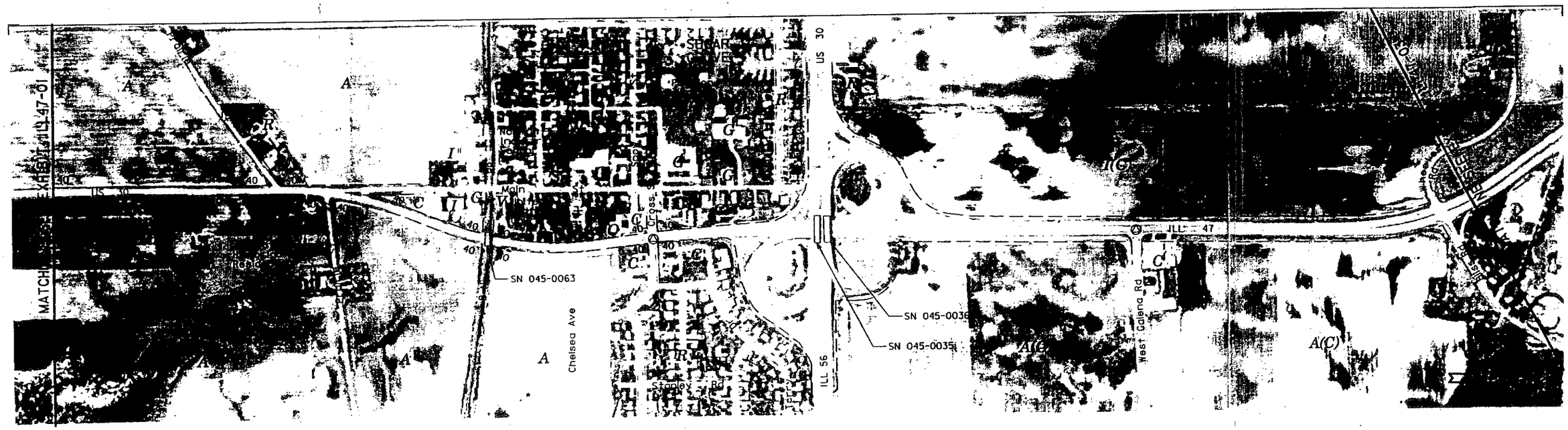


Exhibit ILL47-02a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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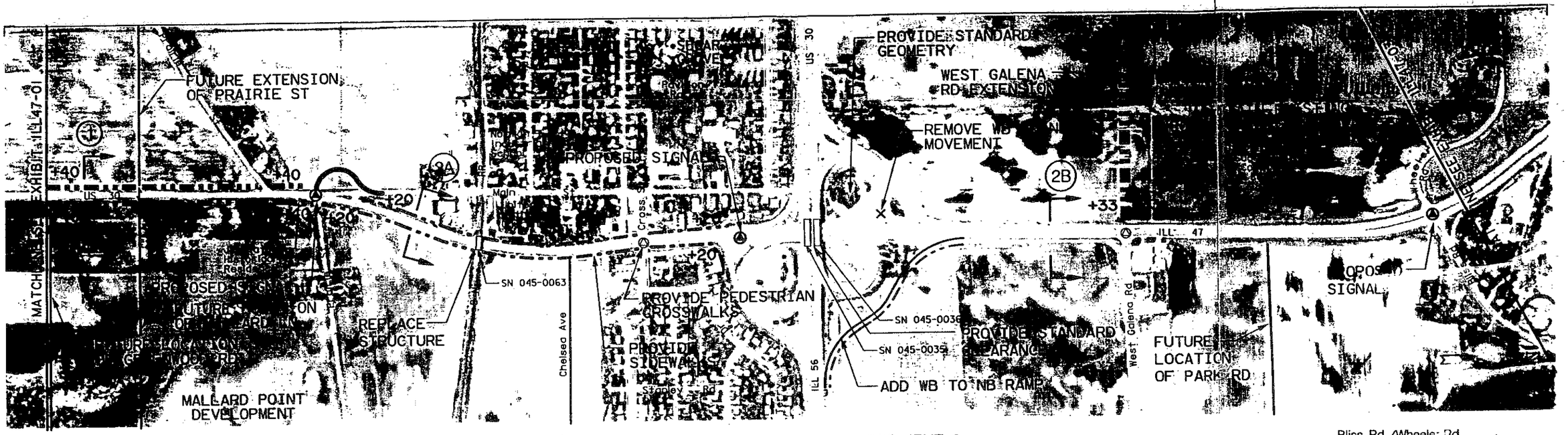
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

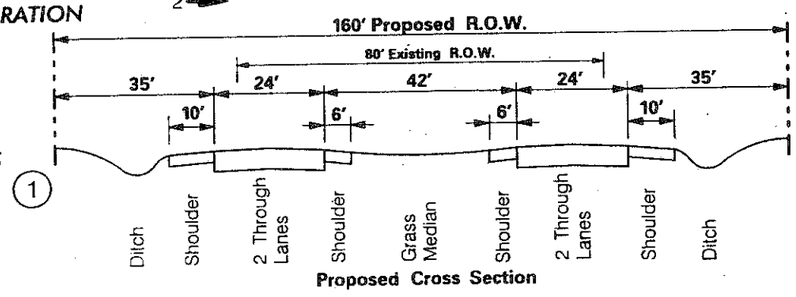


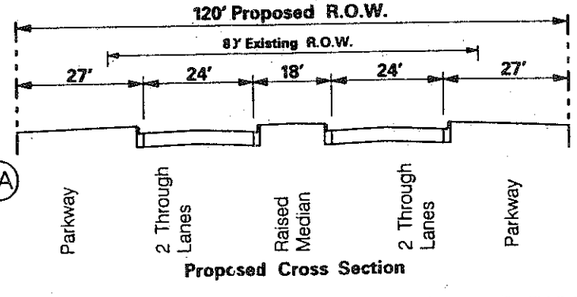
SEGMENT 1

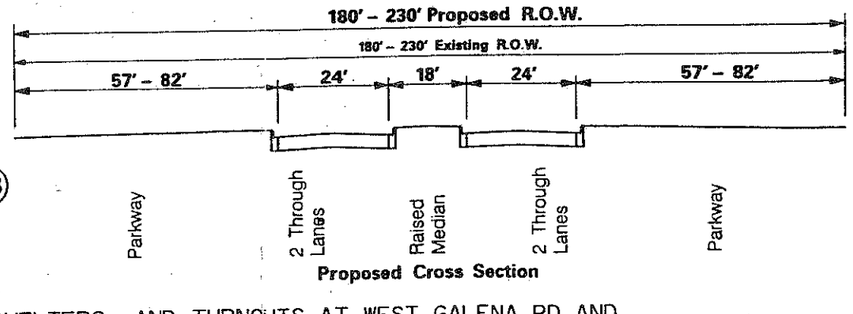
SEGMENT 2

	Prairie St & ILL Route 47	Cross St & ILL Route 47	ILL Route 56 Ramp & ILL Route 47	W. Galena Rd & ILL Route 47	Bliss Rd /Wheeler Rd & ILL Route 47
INTERSECTION DIAGRAM					
SIGNAL SPACING	9850′	2600′	750′	3000′	2400′ 5800′
LANE CONFIGURATION	2 2	2 2		2 2	

CROSS SECTIONS







NOTES

-PROVIDE PEDESTRIAN CROSSWALKS AT CROSS ST IN SUGAR GROVE
-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-REPLACE BN RR STRUCTURE
-PROVIDE SIGNALS AT PRAIRIE ST (EAST), ILL ROUTE 56 EASTBOUND INTERCHANGE RAMP, AND BLISS RD AS WARRANTED
-PROVIDE DIRECTIONAL SIGNS TO FUTURE METRA STATION AND PARK-AND-RIDE IN SUGAR GROVE
-PROVIDE SIDEWALK BETWEEN PRAIRIE ST (EAST) AND ILL ROUTE 56

-PROVIDE BUS STOPS, SHELTERS, AND TURNOUTS AT WEST GALENA RD AND AT BLISS RD / WHEELER RD
-COORDINATE TRANSIT WITH PROPOSED CORPORATE CENTER IN SUGAR GROVE
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-ADD WB TO NB RAMP AT ILL ROUTE 56 INTERCHANGE, REMOVE WB TO NB MOVEMENT FROM WB TO SB RAMP
-PROVIDE STANDARD GEOMETRY AT ILL ROUTE 56 INTERCHANGE
-PROVIDE STANDARD CLEARANCE AT ILL ROUTE 56
-INSTALL SIGNAL PRE-EMPTION

Exhibit ILL47-02b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
+20 — Additional Right-Of-Way
Proposed Right-Of-Way
Cul-De-Sac
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

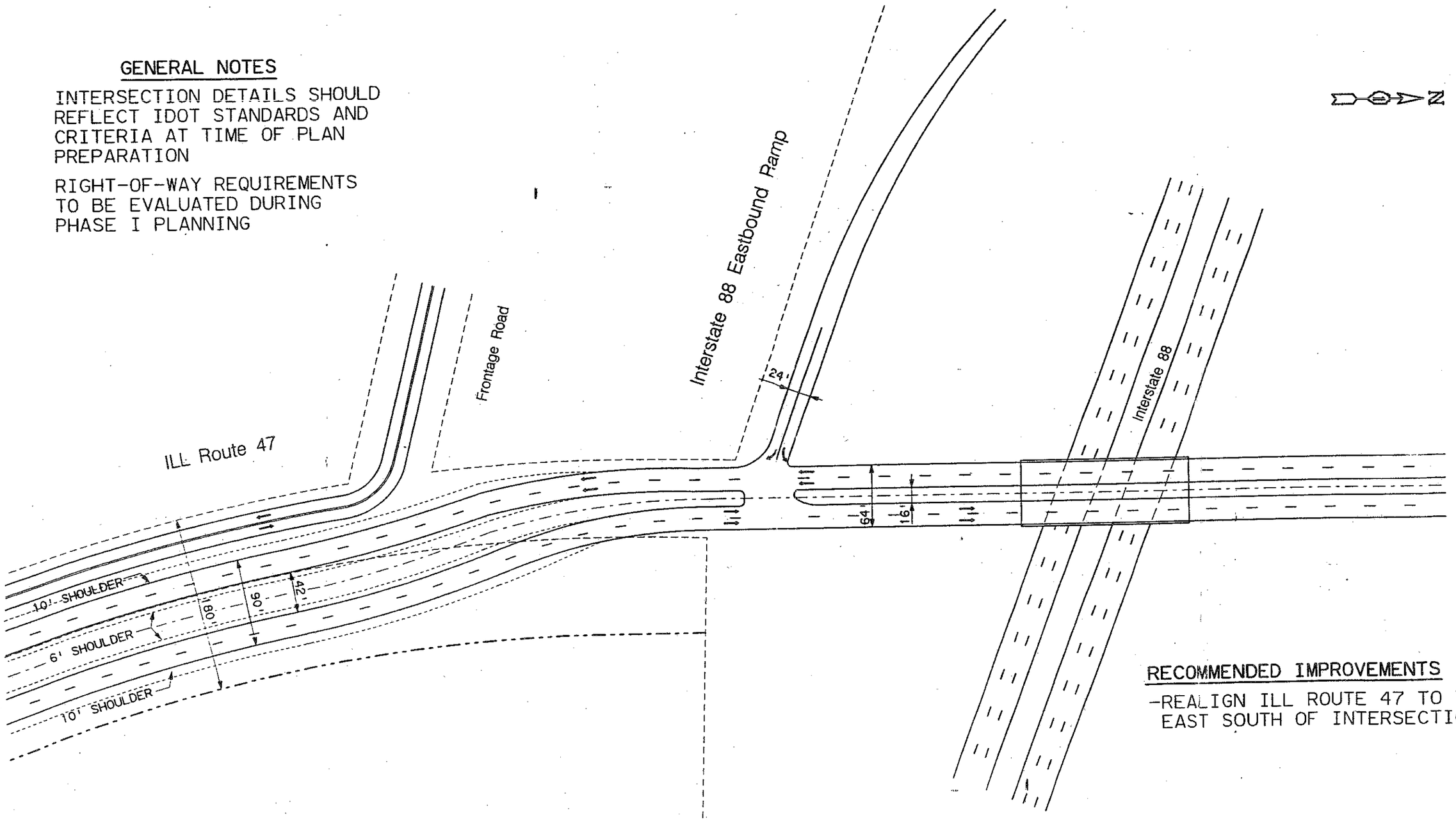
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 ChkdSAW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-REALIGN ILL ROUTE 47 TO THE EAST SOUTH OF INTERSECTION

Exhibit ID 3-1
ILL Route 47 at Interstate 88 Eastbound Ramp

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---- Proposed Right-Of-Way
ROW = Right-Of-Way

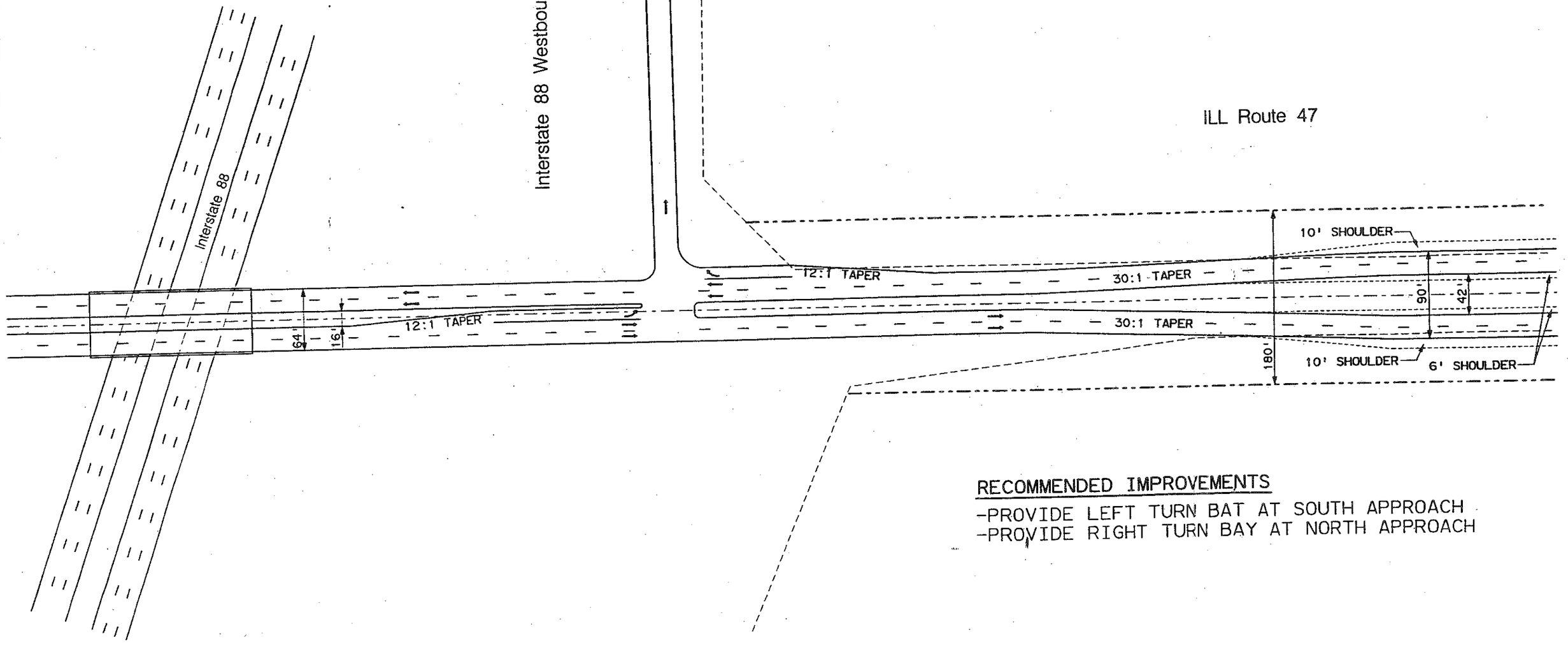
Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE LEFT TURN BAT AT SOUTH APPROACH
-PROVIDE RIGHT TURN BAY AT NORTH APPROACH

Exhibit ID 3-2
ILL Route 47 at Interstate 88 Westbound Ramp

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

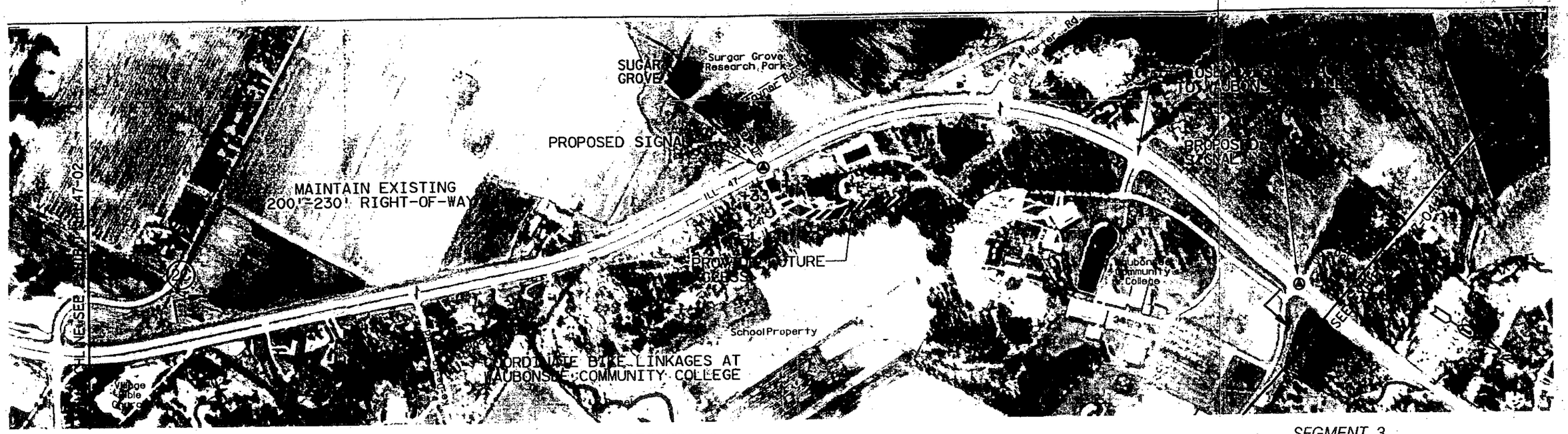
SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

Exhibit ILL47-03a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



Lindsey Dr & ILL Route 47

Old Oak Rd & ILL Route 47

INTERSECTION DIAGRAM

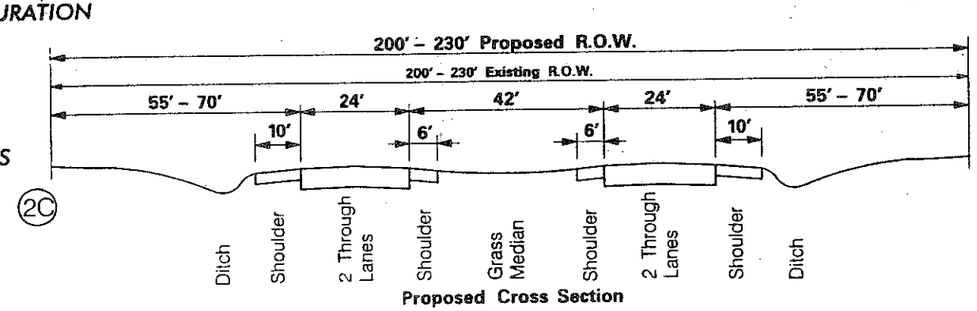
SIGNAL SPACING

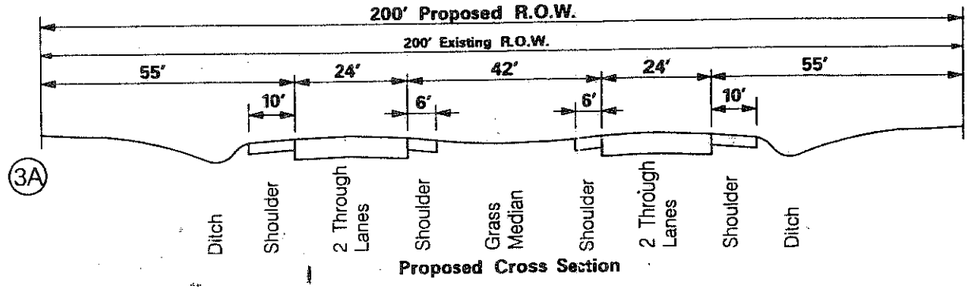
5800′ | 4700′ | 3350′

LANE CONFIGURATION

2 | 2 | 2

CROSS SECTIONS





NOTES

-PROVIDE FUTURE ACCESS TO WAUBONSEE COMMUNITY COLLEGE AND CLOSE EXISTING ACCESS
-PROVIDE BUS STOPS, SHELTERS, AND TURNOUTS AT KE-DE-KA RD AND AT WAUBONSEE COMMUNITY COLLEGE
-COORDINATE BIKE LINKAGES AT WAUBONSEE COMMUNITY COLLEGE WITH EXISTING BIKE PATHS
-PROVIDE SIGNALS AT LINDSEY DR AND OLD OAK RD AS WARRANTED
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-INSTALL SIGNAL PRE-EMPTION

Exhibit ILL47-03b
Illinois Route 47

PROPOSED IMPROVEMENTS

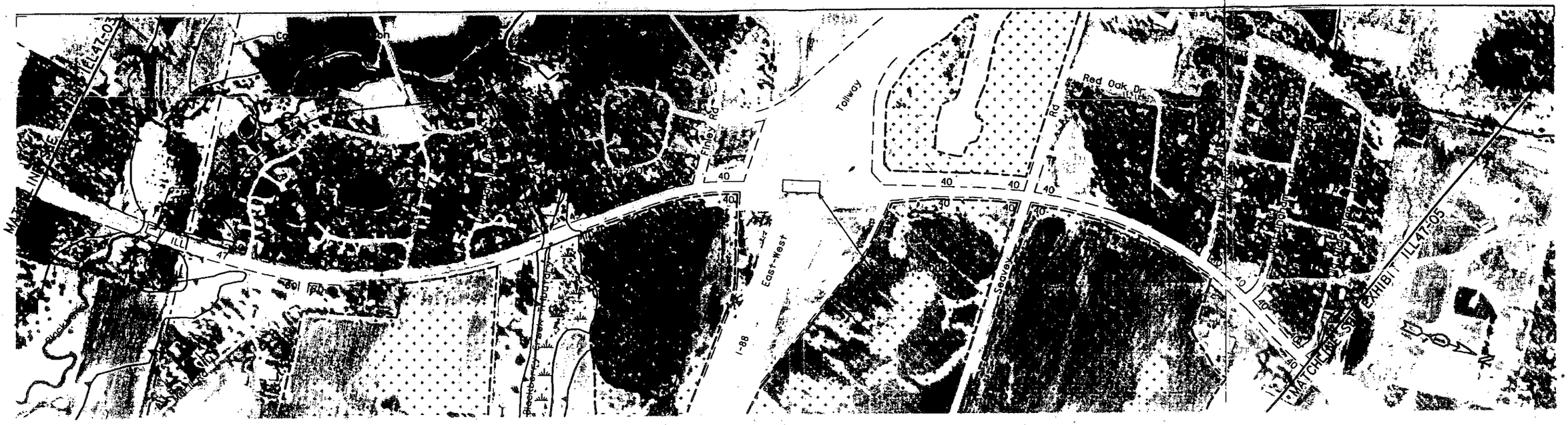
Legend

SN — Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 — Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95



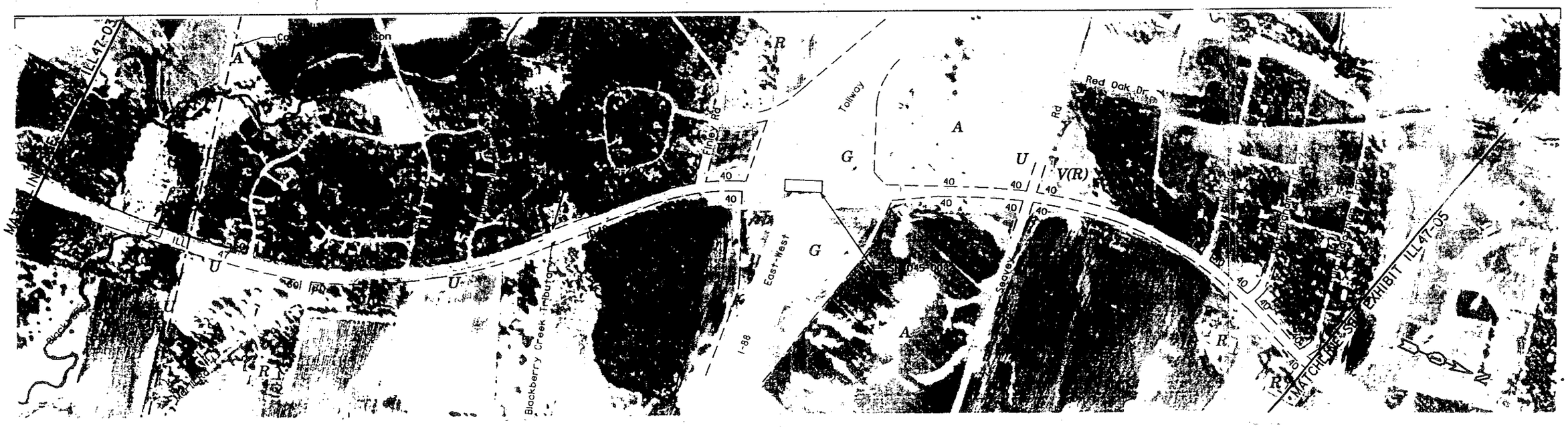


Exhibit ILL47–04a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
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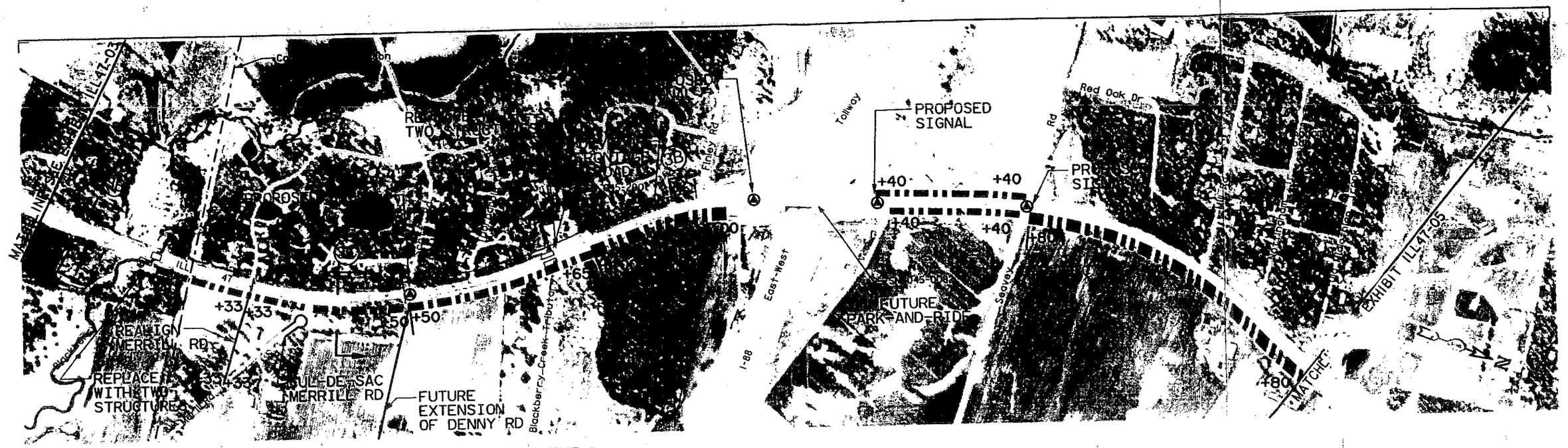


SEGMENT 3

Scott Rd & ILL Route 47

I-88 Eastbound Ramp & ILL Route 47
See Exhibit ID 3-1

I-88 Westbound Ramp & ILL Route 47
See Exhibit ID 3-2

Seavey Rd & ILL Route 47

INTERSECTION DIAGRAM

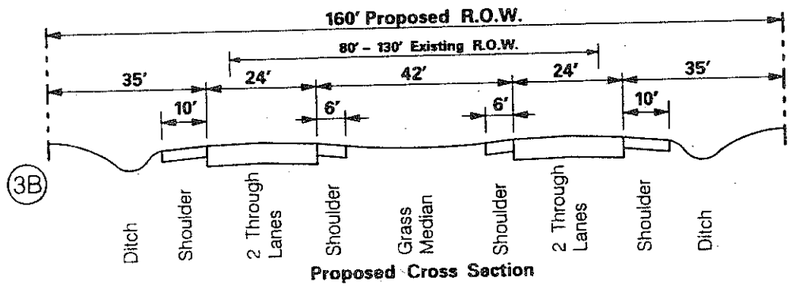
SIGNAL SPACING

3350′ — 2800′ — 950′ — 1150′ — 3050′

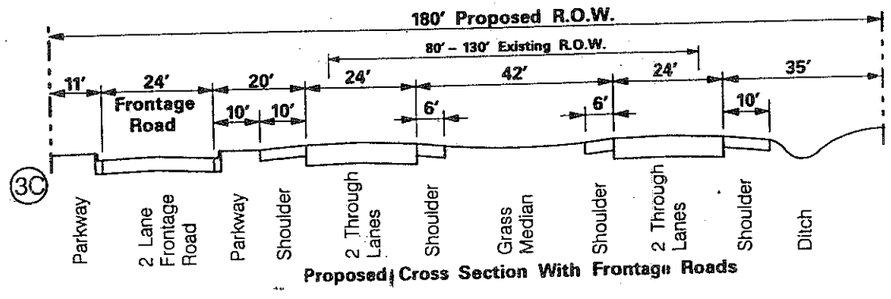
LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section



Proposed Cross Section With Frontage Roads

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS AND TURNOUTS AT 5 MILE SPACING
-PROVIDE FRONTAGE ROAD WEST SIDE; RESERVE ROW FOR POST 2010 FRONTAGE ROADS EAST SIDE
-REALIGN MERRILL RD AND CUL-DE-SAC OLD MERRILL RD
-EVALUATE OPPORTUNITY TO PROVIDE REGIONAL NORTH-SOUTH TRAIL SYSTEM ALONG BLACKBERRY CREEK

-RESERVE SPACE FOR A FUTURE PARK-AND-RIDE FACILITY AT I-88
-PROVIDE MEDIAN BREAK AT MERRILL RD; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REPLACE EXISTING STRUCTURE OVER BLACKBERRY CREEK WITH TWO STRUCTURES
-PROVIDE SIGNALS AT SCOTT RD, I-88 INTERCHANGE RAMPS AND SEAVEY RD AS WARRANTED

Exhibit ILL47-04b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
+20 Additional Right-Of-Way
Cul-De-Sac
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

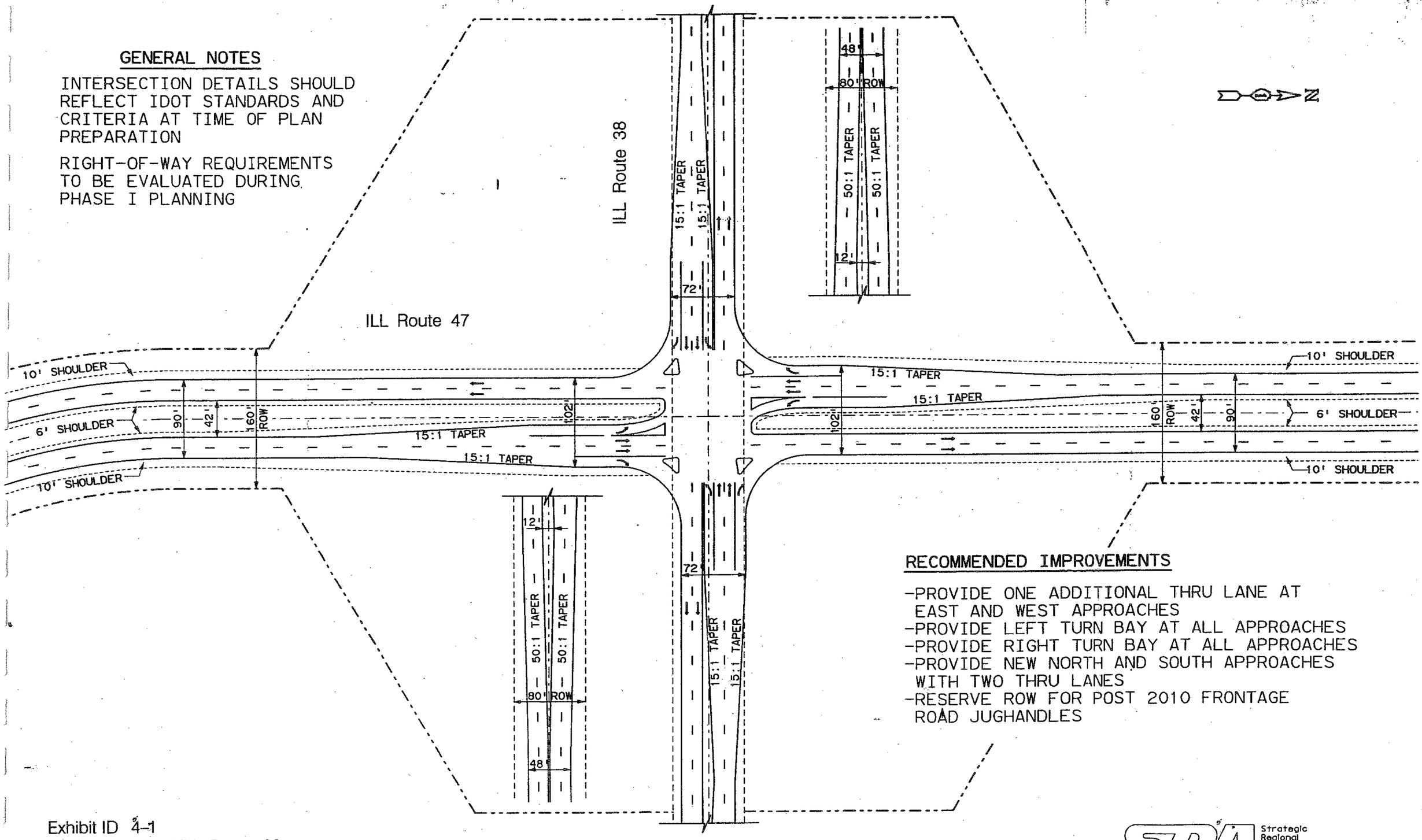
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT EAST AND WEST APPROACHES
-PROVIDE LEFT TURN BAY AT ALL APPROACHES
-PROVIDE RIGHT TURN BAY AT ALL APPROACHES
-PROVIDE NEW NORTH AND SOUTH APPROACHES WITH TWO THRU LANES
-RESERVE ROW FOR POST 2010 FRONTAGE ROAD JUGHANDLES

Exhibit ID 4-1
ILL Route 47 at ILL Route 38

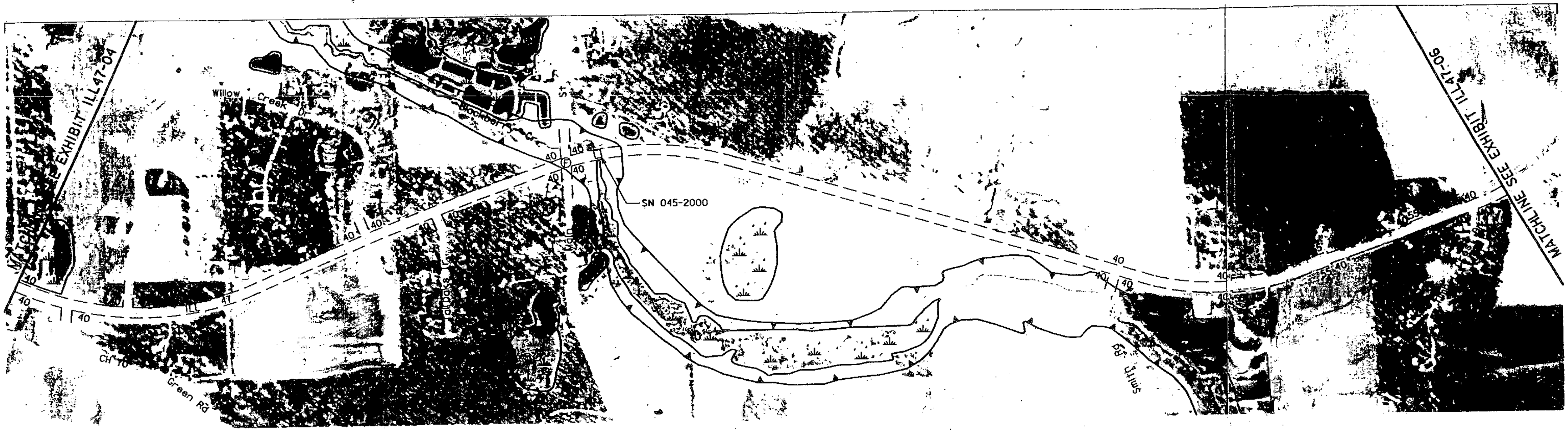
GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94



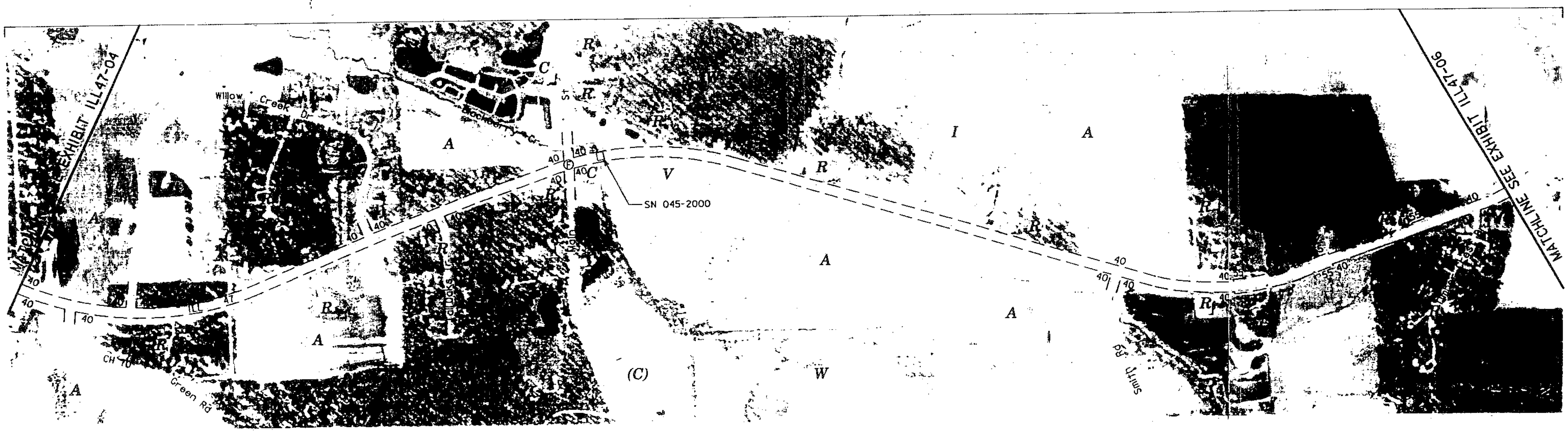


Exhibit ILL47-05a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
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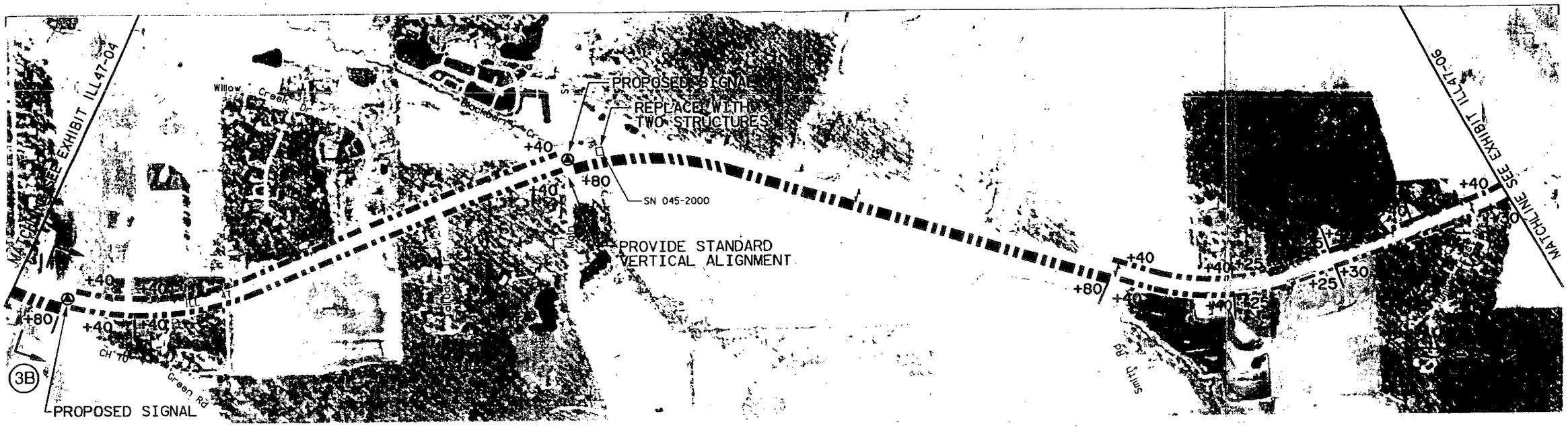
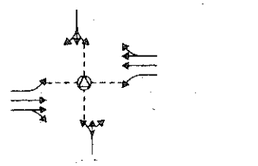
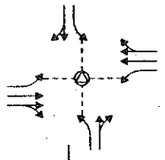


SEGMENT 3

INTERSECTION DIAGRAM





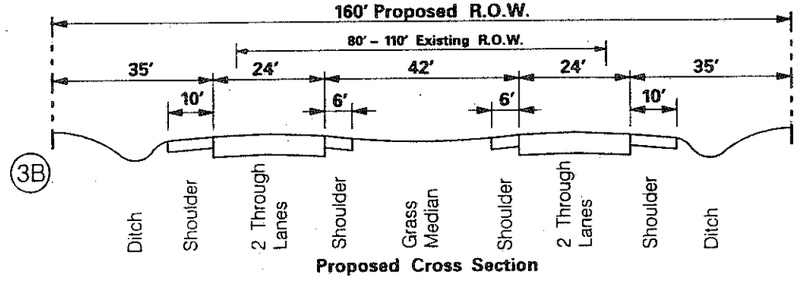
SIGNAL SPACING

3050′ — 4100′ — 16,250′

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-PROVIDE STANDARD VERTICAL ALIGNMENT AT MAIN ST
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REPLACE EXISTING STRUCTURE OVER BLACKBERRY CREEK WITH TWO STRUCTURES
-PROVIDE SIGNALS AT GREEN RD AND MAIN ST AS WARRANTED

Exhibit ILL47-05b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20′ Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

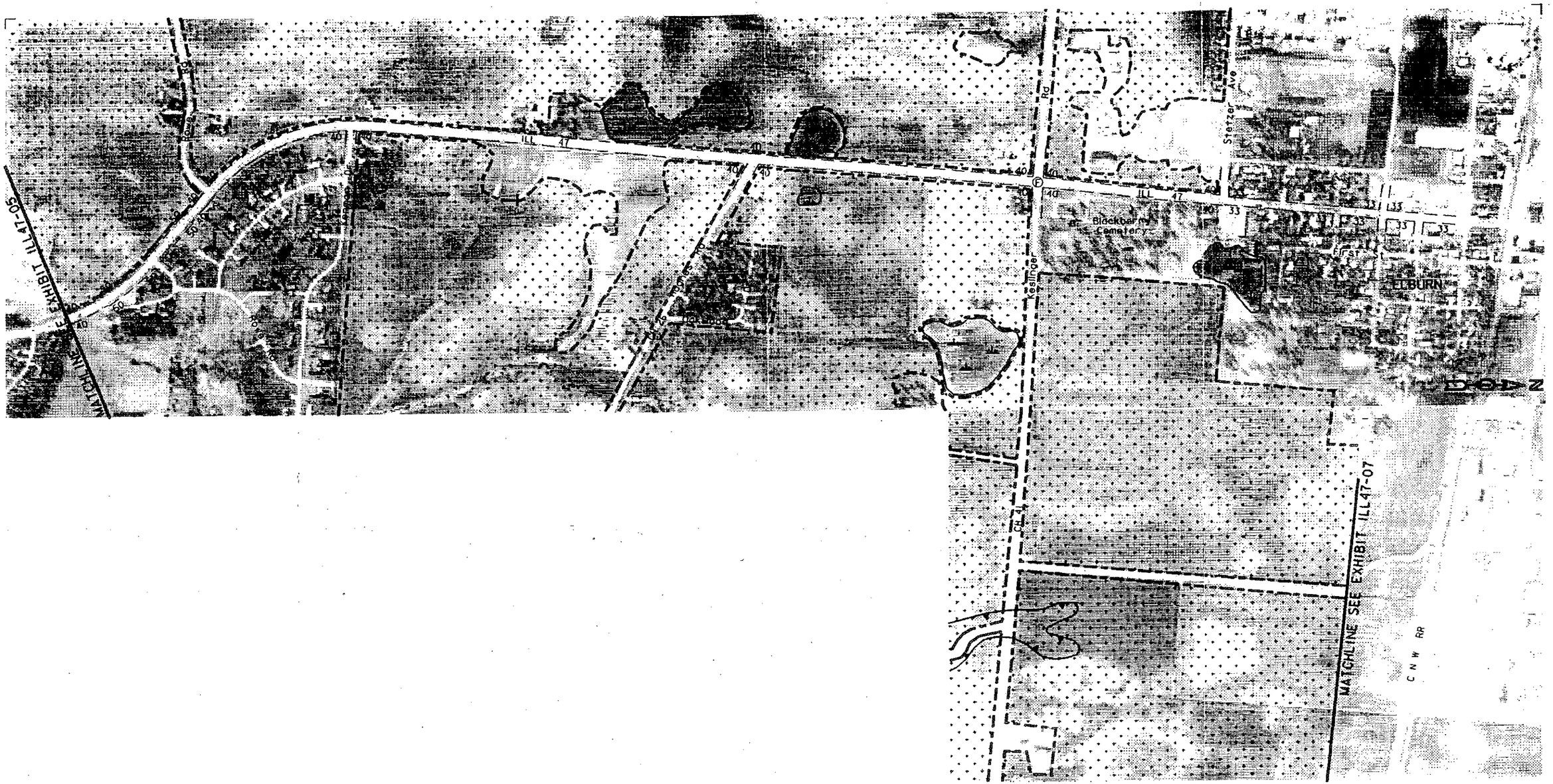


Exhibit ILL47-06a-1
Illinois Route 47 (Main Street)

EXISTING CONDITIONS / ENVIRONMENTAL

47-06e

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

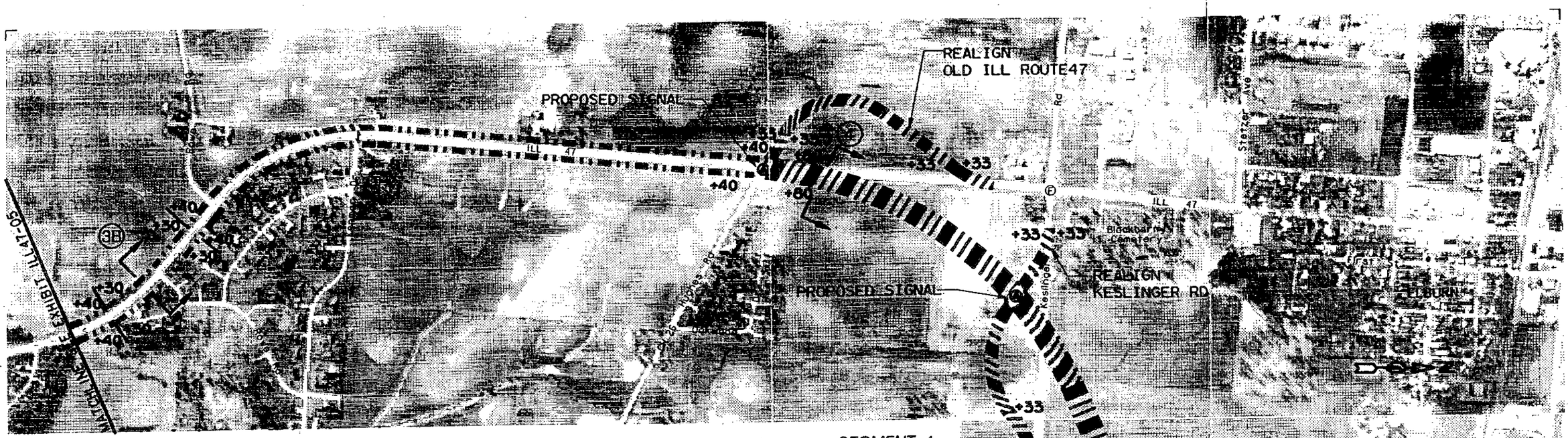
Exhibit ILL47–06a–2
Illinois Route 47 (Main Street)

EXISTING CONDITIONS / LAND USE

47-061

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 3

SEGMENT 4

Hughes Rd / Old ILL Route 47 & ILL Route 47

Keslinger Rd & ILL Route 47

INTERSECTION DIAGRAM

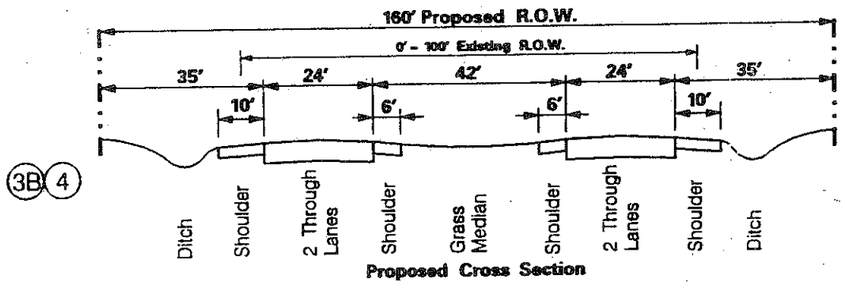
SIGNAL SPACING

13,350' | 2900' | 6350'

LANE CONFIGURATION

2 | 2 | 2 | 2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-PROVIDE ILL ROUTE 47 ALTERNATIVE ALIGNMENT EAST OF ELBURN
-PROVIDE SIGNAL AT HUGHES RD
-REALIGN OLD ILL ROUTE 47 AT THE ILL ROUTE 47 ALTERNATIVE ALIGNMENT
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REALIGN KESLINGER RD AT THE ILL ROUTE 47 ALTERNATIVE ALIGNMENT
-PROVIDE SIGNAL AT KESLINGER RD AS WARRANTED

Exhibit ILL47-06b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend: SN Structure Number; +20 Existing Structure; Median Break; Cul-De-Sac; Additional Right-Of-Way; Proposed Right-Of-Way; New Signal; Existing Signal; Flashing Signal; Remove Signal

Scale In Feet 0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

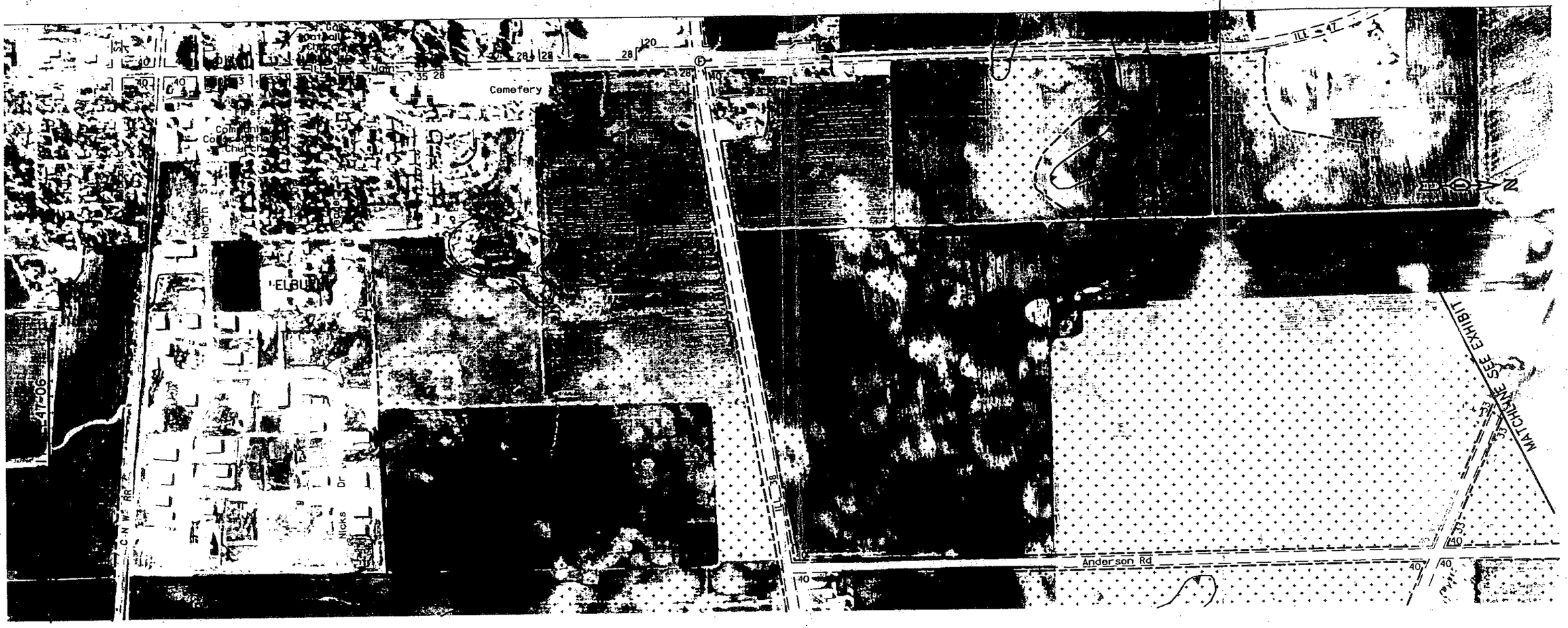


Exhibit ILL47–07a–1
Illinois Route 47 (Main Street)

EXISTING CONDITIONS / ENVIRONMENTAL

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

47-07a

Exhibit ILL47-07a-2
Illinois Route 47 (Main Street)

EXISTING CONDITIONS / LAND USE

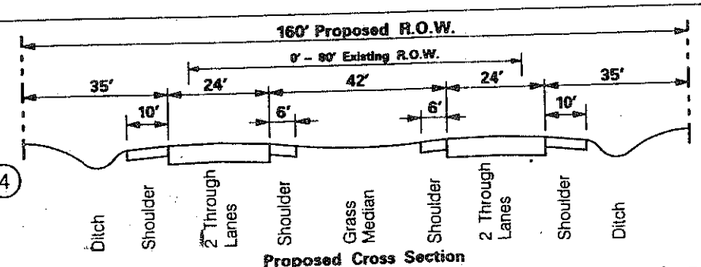
Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

SEGMENT 4

SIGNAL SPACING	6350′	3450′	16,100′
LANE CONFIGURATION			2 / 2
INTERSECTION DIAGRAM	Nicks Dr & ILL Route 47	ILL Route 38 & ILL Route 47 See Exhibit ID 4-1	

CROSS SECTION (4)



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE METRA STATION AND PARK-AND-RIDE
-PROVIDE DIRECTIONAL SIGNS TO FUTURE METRA STATION AND PARK-AND-RIDE
-PROVIDE ILL ROUTE 47 ALTERNATIVE ALIGNMENT EAST OF ELBURN
-PROVIDE GRADE SEPARATION AT CNW RR ALONG ALTERNATIVE ALIGNMENT
-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT ¼ MILE SPACING THROUGH ELBURN
-PROVIDE STANDARD VERTICAL ALIGNMENT ON ANDERSON RD
-PROVIDE SIGNALS AT NICKS DR AND ILL ROUTE 38 ALONG ILL ROUTE 47 ALTERNATIVE ALIGNMENT
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING, OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REALIGN BEITH RD TO FORM 90 DEGREE INTERSECTION WITH ILL ROUTE 47 ALTERNATIVE ALIGNMENT

Exhibit ILL47-07b
Illinois Route 47

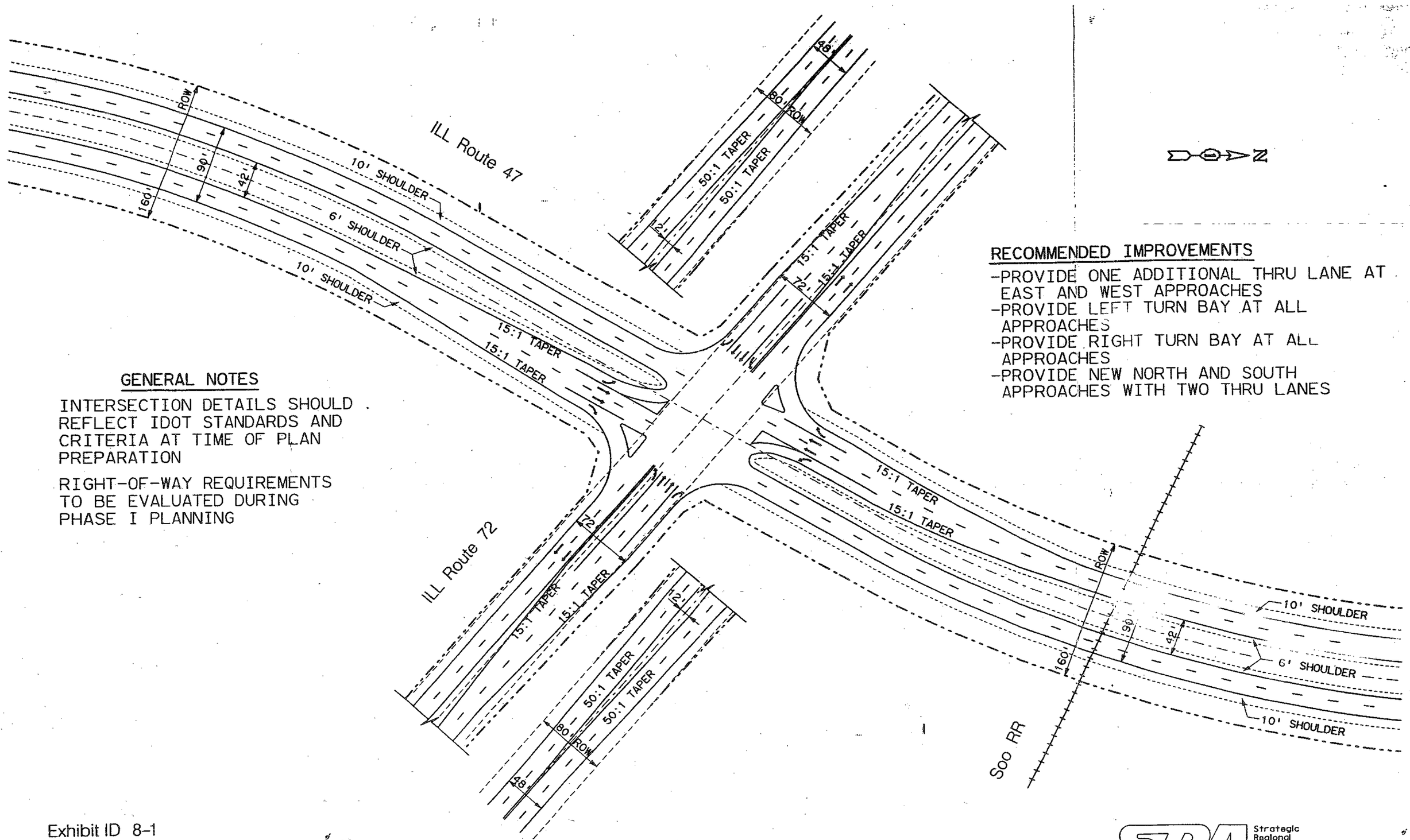
PROPOSED IMPROVEMENTS

Legend: SN Structure Number; Existing Structure; +20 Additional Right-Of-Way; Proposed Right-Of-Way; Cul-De-Sac; New Signal; Existing Signal; F Flashing Signal; Remove Signal

Scale In Feet: 0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95



GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING

RECOMMENDED IMPROVEMENTS

- PROVIDE ONE ADDITIONAL THRU LANE AT EAST AND WEST APPROACHES
- PROVIDE LEFT TURN BAY AT ALL APPROACHES
- PROVIDE RIGHT TURN BAY AT ALL APPROACHES
- PROVIDE NEW NORTH AND SOUTH APPROACHES WITH TWO THRU LANES

Exhibit ID 8-1
ILL Route 47 at ILL Route 72

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ----- Existing Right-Of-Way
------ Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING

N

US Route 20

ILL Route 47

10' SHOULDER
6' SHOULDER
10' SHOULDER
ROW
160'
42'
90'
15:1 TAPER
15:1 TAPER
RR
500
141
48'
80' ROW
50:1 TAPER
50:1 TAPER
12'
72'
15:1 TAPER
15:1 TAPER
15:1 TAPER
15:1 TAPER
ROW
10' SHOULDER
6' SHOULDER
10' SHOULDER
42'
90'
160'
72'
15:1 TAPER
15:1 TAPER
12'
50:1 TAPER
50:1 TAPER
80' ROW
48'

RECOMMENDED IMPROVEMENTS

- -PROVIDE ONE ADDITIONAL THRU LANE AT EAST AND WEST APPROACHES
- -PROVIDE LEFT TURN BAY AT ALL APPROACHES
- -PROVIDE RIGHT TURN BAY AT ALL APPROACHES
- -PROVIDE NEW NORTH AND SOUTH APPROACHES WITH TWO THRU LANES

Exhibit ID 8-2
ILL Route 47 at US Route 20

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend
Existing Right-Of-Way
Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

Exhibit ILL47-08a-1
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL

47-08a

Scale In Feet
0 200 400 800 1200

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MERIDIAN ENGINEERS & PLANNERS, INC.

Exhibit ILL47–08a–2
Illinois Route 47

EXISTING CONDITIONS / LAND USE

47-08I

Scale In Feet
0 200 400 800 1200

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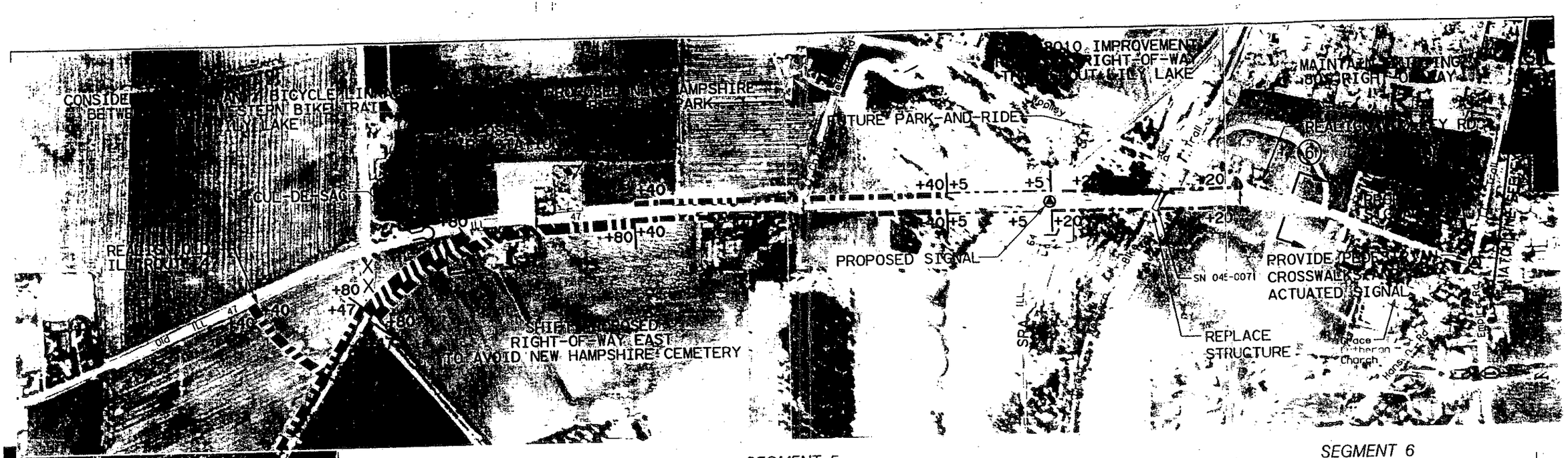
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 4

SEGMENT 5

SEGMENT 6

INTERSECTION DIAGRAM

ILL Route 64 & ILL Route 47
(See ILL Route 64 SRA Report)

Empire Rd /IC Trail & ILL Route 47

16,100'

3400'

8450'

SIGNAL SPACING

LANE CONFIGURATION

(Post 2010 Improvement)

CROSS SECTIONS

160' Proposed R.O.W.
0' - 150' Existing R.O.W.
35' 24' 42' 24' 35'
10' 6' 6' 10'
Ditch Shoulder 2 Through Lanes Shoulder Grass Median Shoulder 2 Through Lanes Shoulder Ditch
Proposed Cross Section

80' Proposed R.O.W.
80' Existing R.O.W.
16' 24' 24' 16'
Parkway 2 Through Lanes 2 Through Lanes Parkway
Proposed Cross Section

100' Proposed R.O.W.
80' Existing R.O.W.
17' 24' 18' 24' 17'
Parkway 2 Through Lanes Raised Median 2 Through Lanes Parkway
Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING; ½ MILE SPACING IN LILY LAKE
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REALIGN OLD ILL ROUTE 47 TO FORM 90 DEGREE INTERSECTION WITH ILL ROUTE 47 ALTERNATIVE ALIGNMENT

-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AT ILL ROUTE 64
-REALIGN WOOLLEY RD TO FORM 90 DEGREE INTERSECTION WITH ILL ROUTE 47
-CONSIDER PEDESTRIAN / BICYCLE LINKAGE BETWEEN GREAT WESTERN BIKE TRAIL AND LILY LAKE
-REPLACE GREAT WESTERN BIKE TRAIL STRUCTURE
-PROVIDE SIGNALS AT ILL ROUTE 64 AND EMPIRE RD AS WARRANTED
-PROVIDE PEDESTRIAN CROSSWALKS AND ACTUATED SIGNAL AT EMPIRE ROAD IN LILY LAKE
-POST 2010 IMPROVEMENT FOR 100 FT. RIGHT-OF-WAY THROUGHOUT LILY LAKE

Exhibit ILL47-08b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend
SN Structure Number
Existing Structure
Median Break
+20 Additional Right-Of-Way
Proposed Right-Of-Way
Cul-De-Sac
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

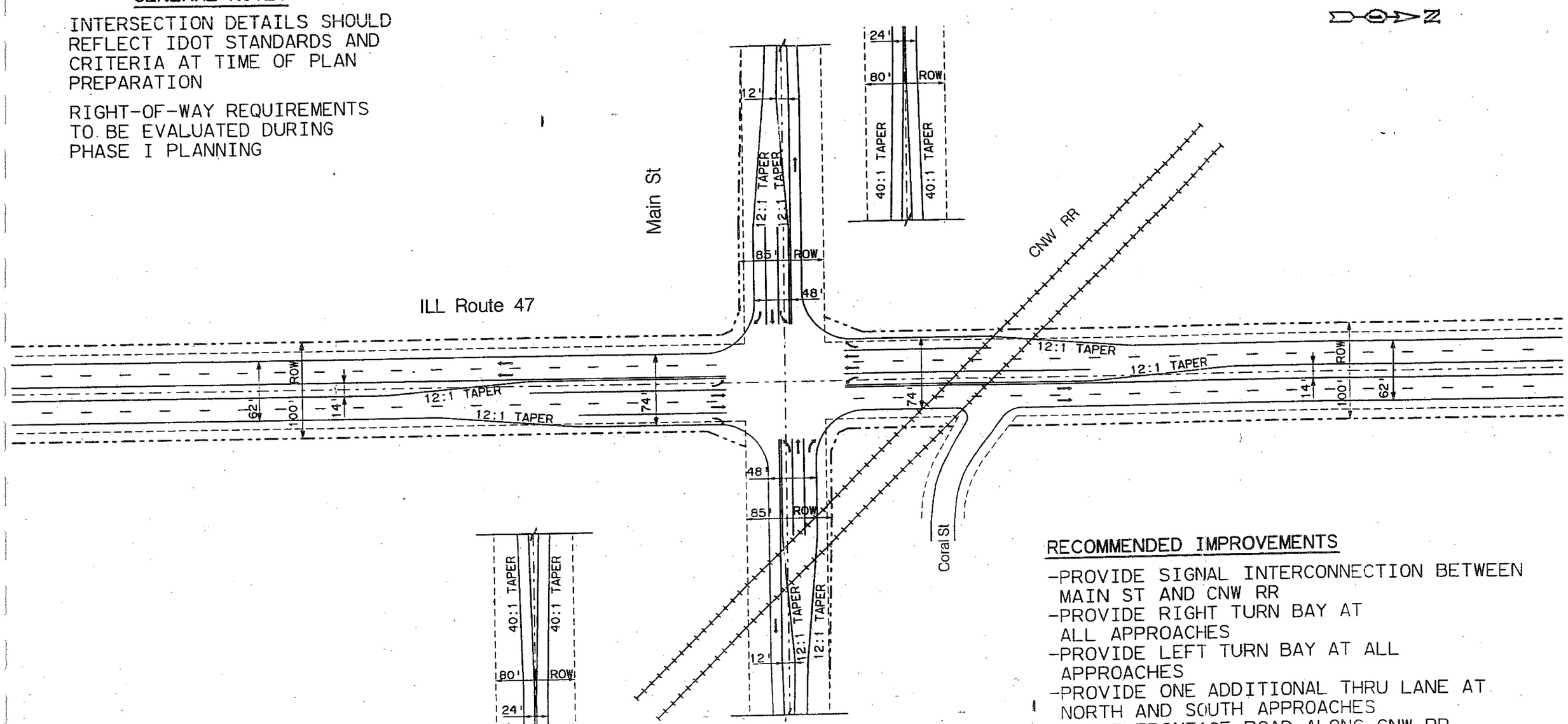
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

- -PROVIDE SIGNAL INTERCONNECTION BETWEEN MAIN ST AND CNW RR
- -PROVIDE RIGHT TURN BAY AT ALL APPROACHES
- -PROVIDE LEFT TURN BAY AT ALL APPROACHES
- -PROVIDE ONE ADDITIONAL THRU LANE AT NORTH AND SOUTH APPROACHES
- -CLOSE FRONTAGE ROAD ALONG CNW RR

Exhibit ID 9-1
ILL Route 47 at Main St

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend
Existing Right-Of-Way
Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

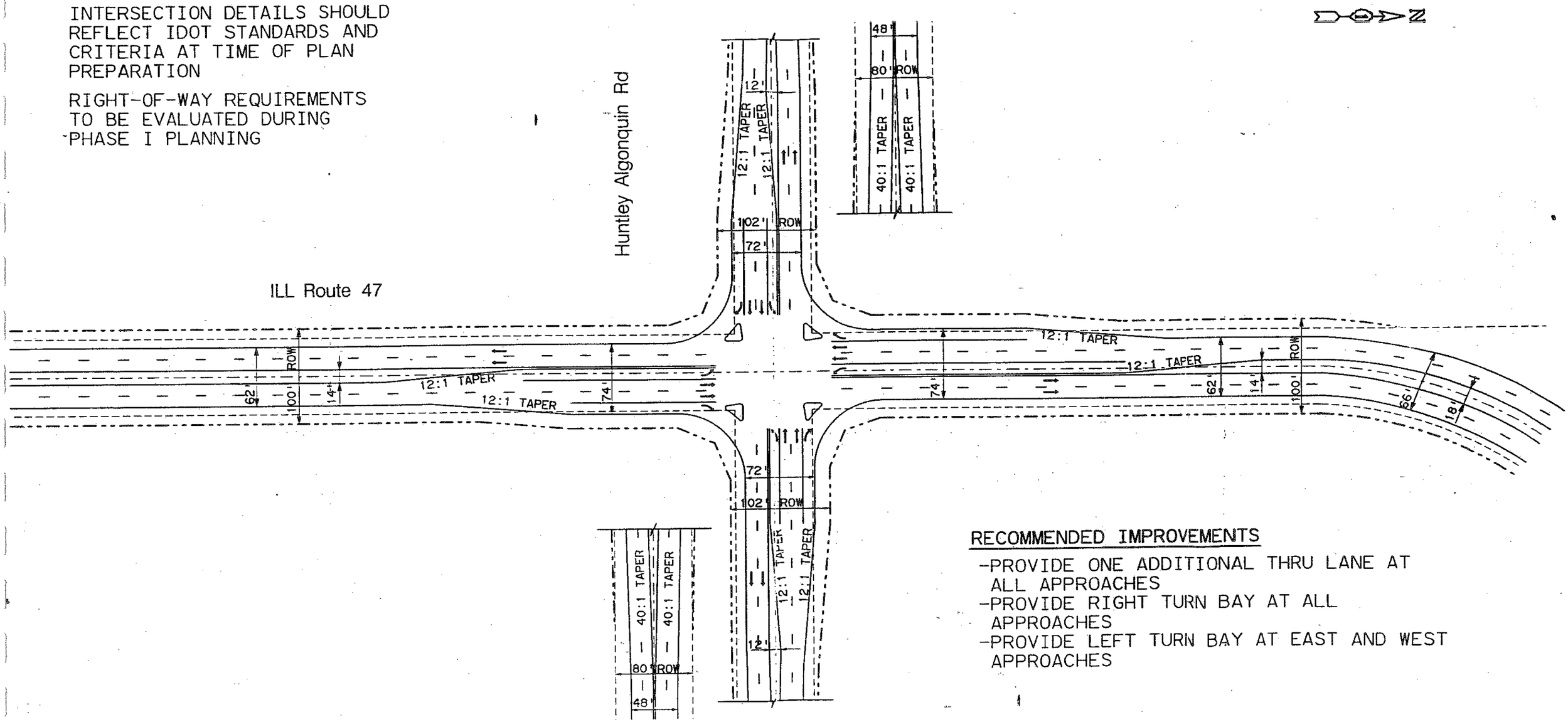
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

- -PROVIDE ONE ADDITIONAL THRU LANE AT ALL APPROACHES
- -PROVIDE RIGHT TURN BAY AT ALL APPROACHES
- -PROVIDE LEFT TURN BAY AT EAST AND WEST APPROACHES

Exhibit ID 9-2
ILL Route 47 at Huntley Algonquin Rd

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ----- Existing Right-Of-Way
----- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

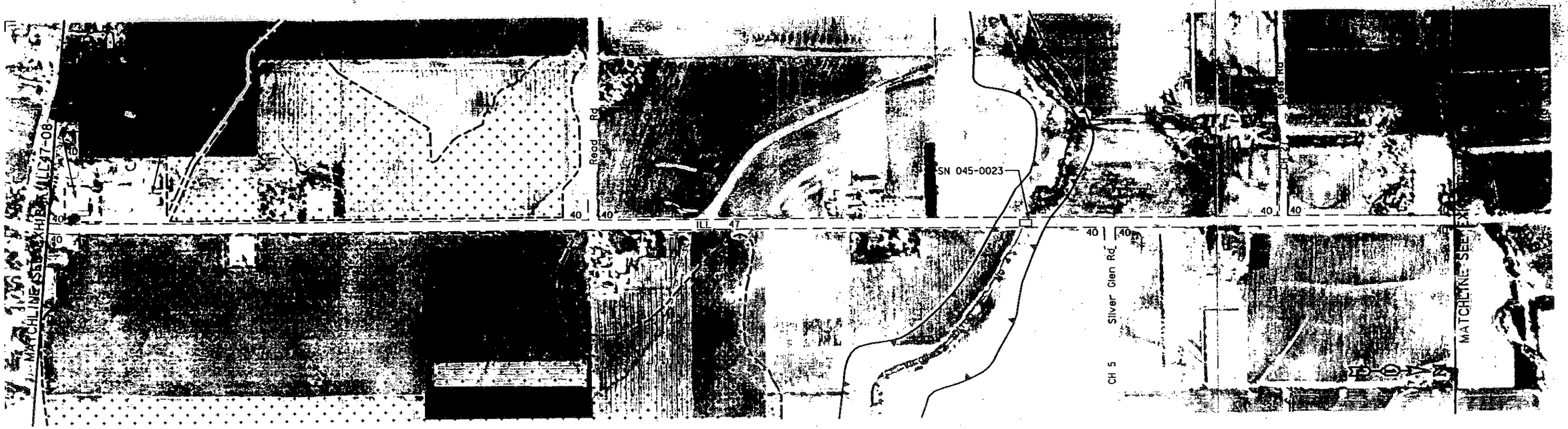
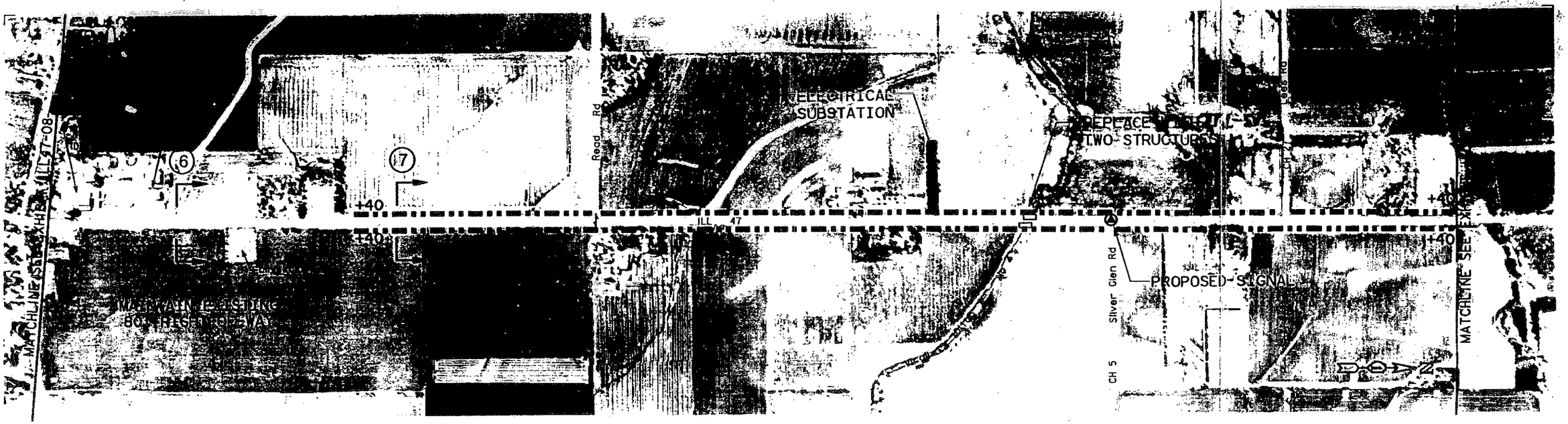


Exhibit ILL47–09a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 6

SEGMENT 7

Silver Glen Rd & ILL Route 47

INTERSECTION DIAGRAM

SIGNAL SPACING

8450′ | 6550′

LANE CONFIGURATION

2 / 2 | 2 / 2

(Post 2010 Improvement)

CROSS SECTIONS

80′ Proposed R.O.W.
80′ Existing R.O.W.
16′ | 24′ | 24′ | 16′
6 Parkway | 2 Through Lanes | 2 Through Lanes | Parkway
Proposed Cross Section

100′ Proposed R.O.W.
80′ Existing R.O.W.
17′ | 24′ | 18′ | 24′ | 17′
6 Parkway | 2 Through Lanes | Raised Median | 2 Through Lanes | Parkway
Proposed Cross Section

160′ Proposed R.O.W.
0′ – 80′ Existing R.O.W.
35′ | 10′ | 24′ | 6′ | 42′ | 5′ | 24′ | 10′ | 35′
7 Ditch | Shoulder | 2 Through Lanes | Shoulder | Grass Median | Shoulder | 2 Through Lanes | Shoulder | Ditch
Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-PROVIDE SIGNAL AT SILVER GLEN RD AS WARRANTED
-POST 2010 IMPROVEMENT FOR 100 FT. RIGHT-OF-WAY THROUGHOUT LILY LAKE

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REPLACE EXISTING STRUCTURE OVER VIRGIL DITCH NO. 2 WITH TWO STRUCTURES

Exhibit ILL47-09b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend
SN Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

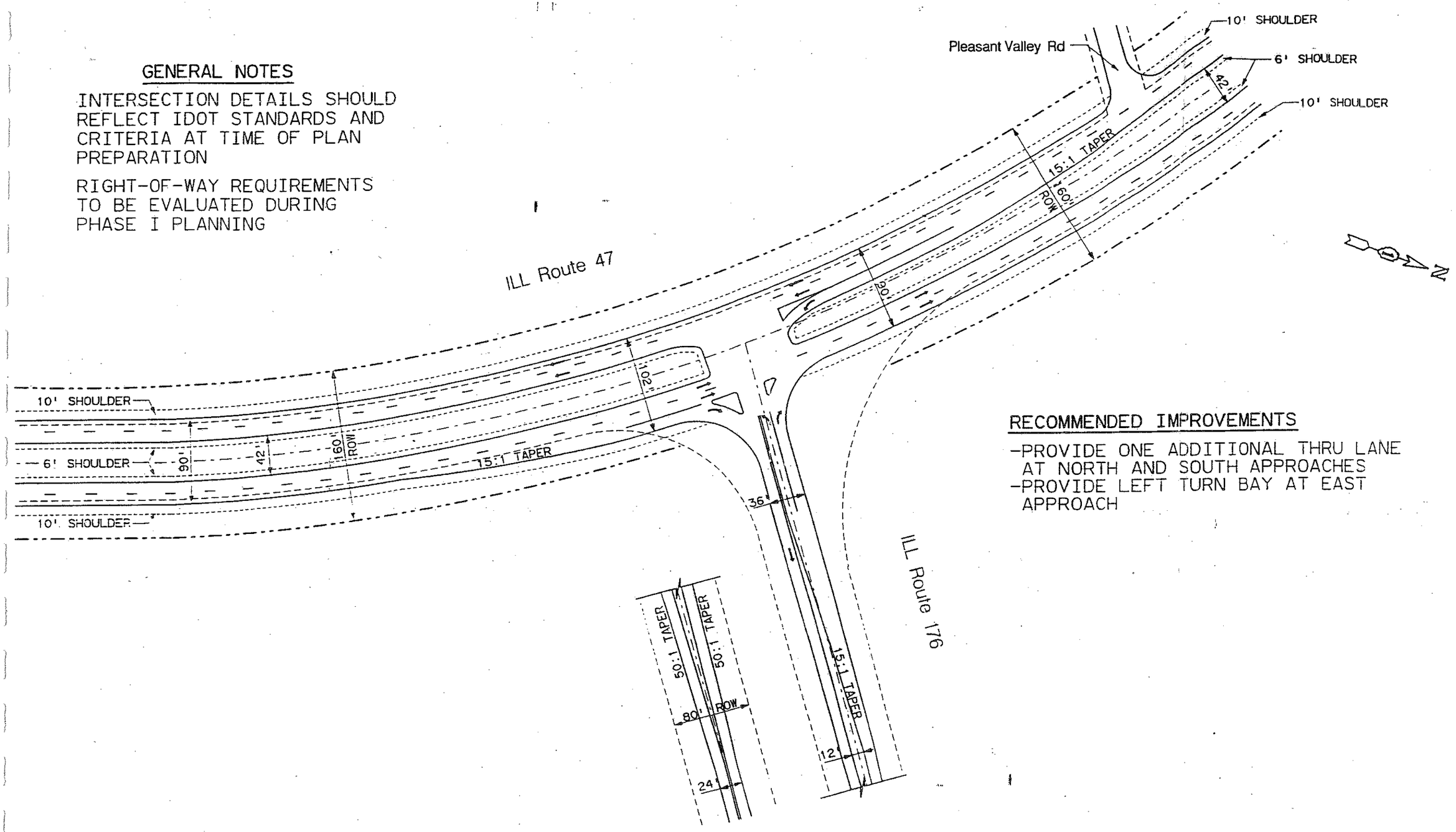
Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd KRW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT NORTH AND SOUTH APPROACHES
-PROVIDE LEFT TURN BAY AT EAST APPROACH

Exhibit ID 10-1
ILL Route 47 at ILL Route 176 (South)

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---·--- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING

RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT NORTH AND SOUTH APPROACHES
-PROVIDE LEFT TURN BAY AT WEST APPROACH

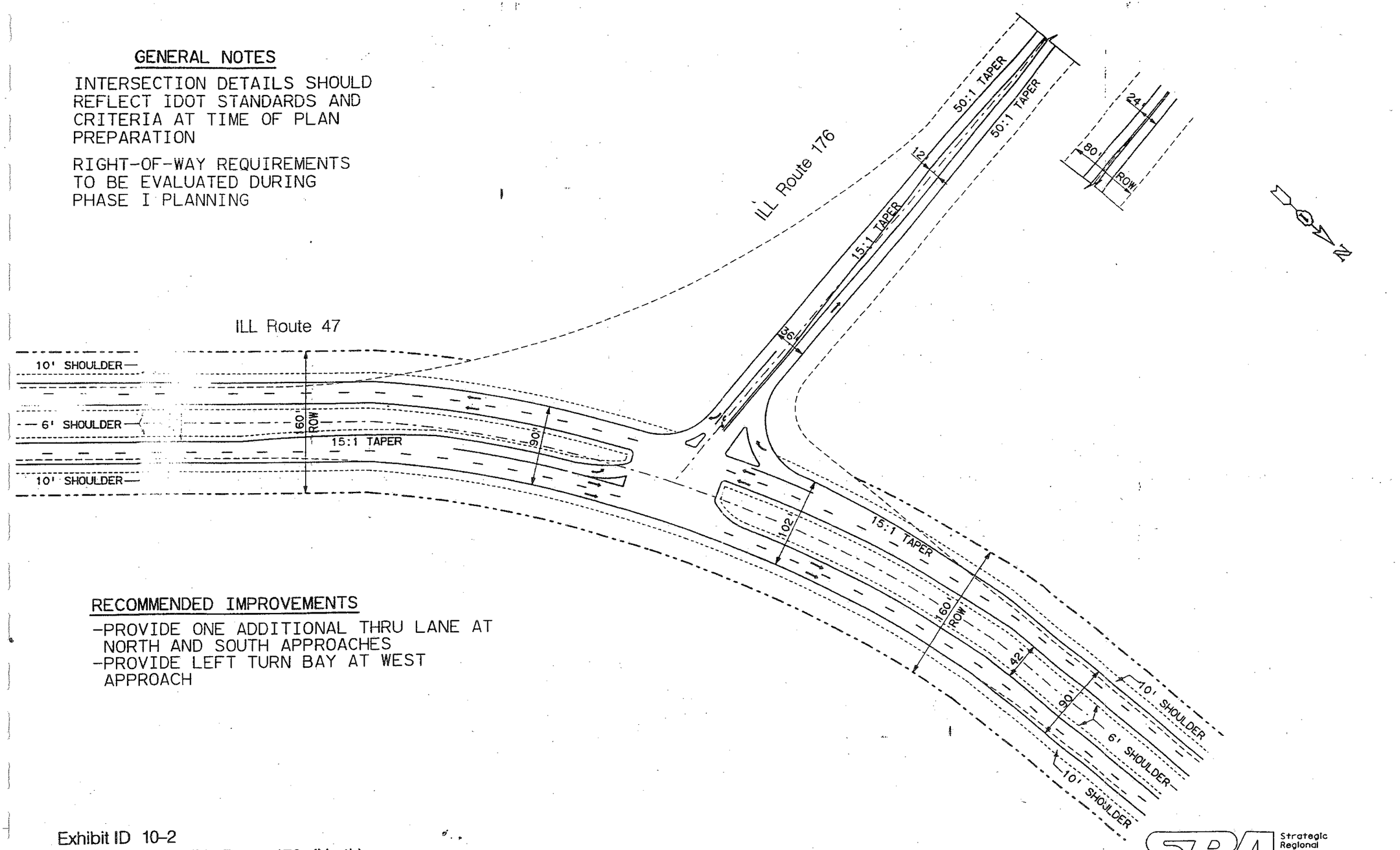


Exhibit ID 10-2
ILL Route 47 at ILL Route 176 (North)

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ----- Existing Right-Of-Way
----- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

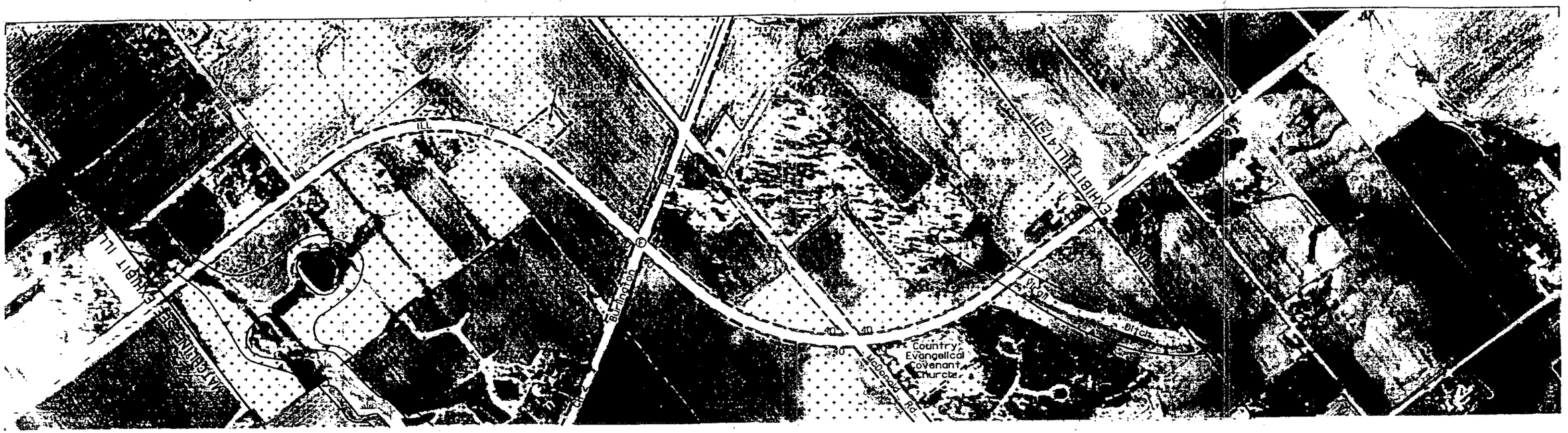
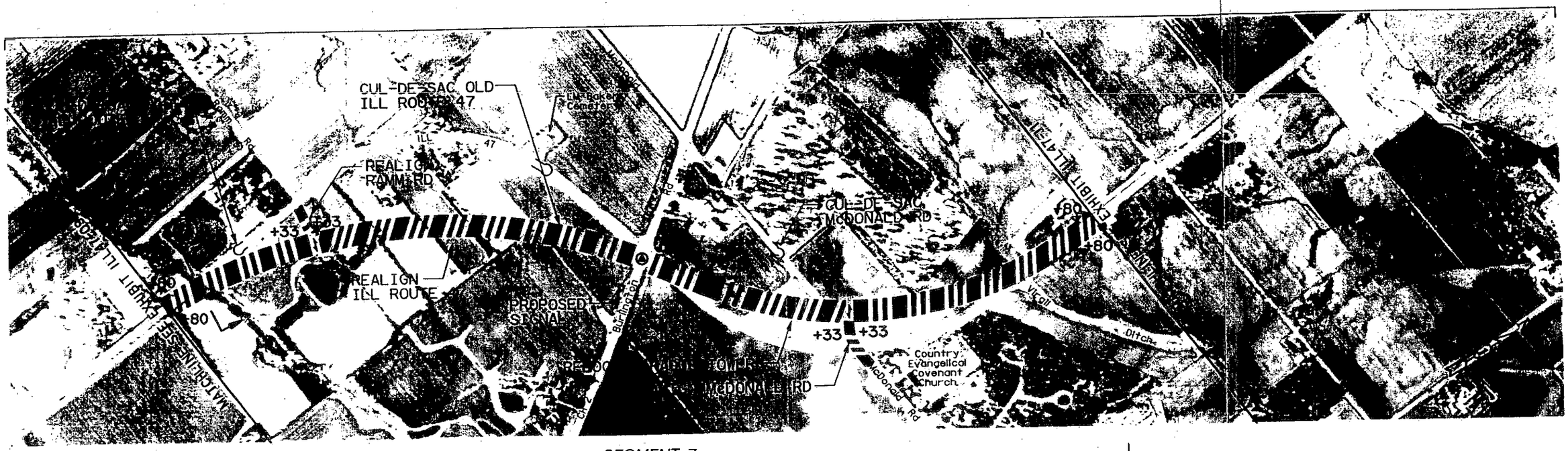


Exhibit ILL47–10a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

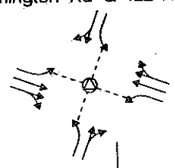
SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 7

Burlington Rd & ILL Route 47

INTERSECTION DIAGRAM



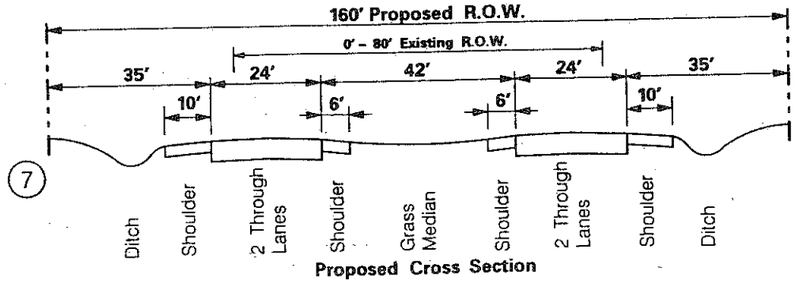
SIGNAL SPACING

6550' | 25,950'

LANE CONFIGURATION

2 | 2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS AND TURNOUTS AT 5 MILE SPACING
-CUL-DE-SAC McDONALD RD WEST OF ILL ROUTE 47
-REALIGN RAMM RD AND THE EAST LEG OF McDONALD RD TO FORM 90 DEGREE INTERSECTIONS WITH ILL ROUTE 47
-RELOCATE RADIO TOWER NORTH OF BURLINGTON ROAD
-PROVIDE LEFT TURN BAYS ON BURLINGTON RD
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REALIGN ILL ROUTE 47 NEAR BURLINGTON RD
-CUL-DE-SAC WEST LEG OF OLD ILL ROUTE 47
-DEAD END EAST LEG OF OLD ILL ROUTE 47
-PROVIDE SIGNAL AT BURLINGTON RD AS WARRANTED

Exhibit ILL47-10b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Cul-De-Sac
+20 Additional Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

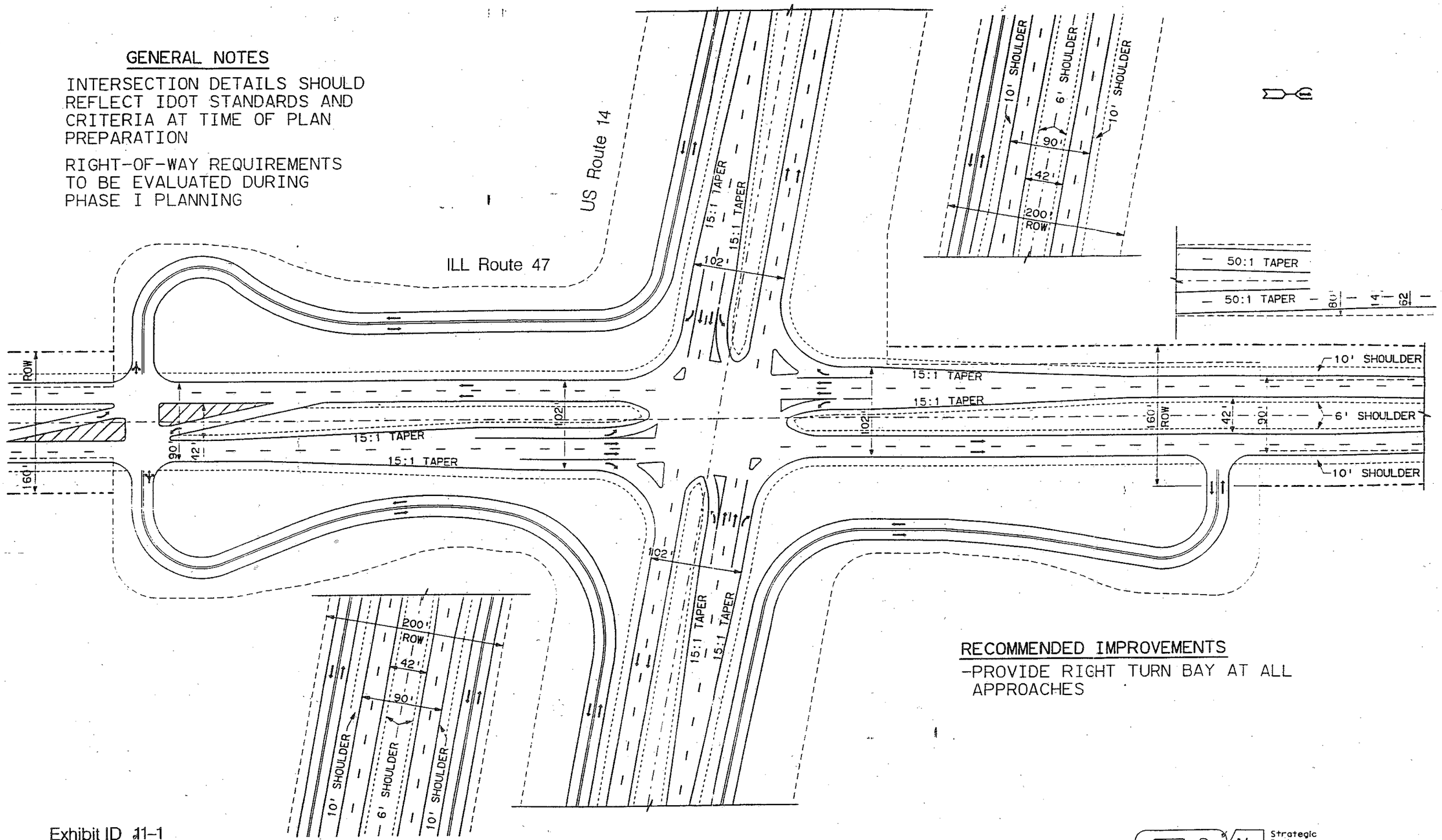
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE RIGHT TURN BAY AT ALL APPROACHES

Exhibit ID 11-1

ILL Route 47 at US Route 14

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING

RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT NORTH AND SOUTHEAST APPROACHES
-PROVIDE RIGHT TURN BAY AT ALL APPROACHES

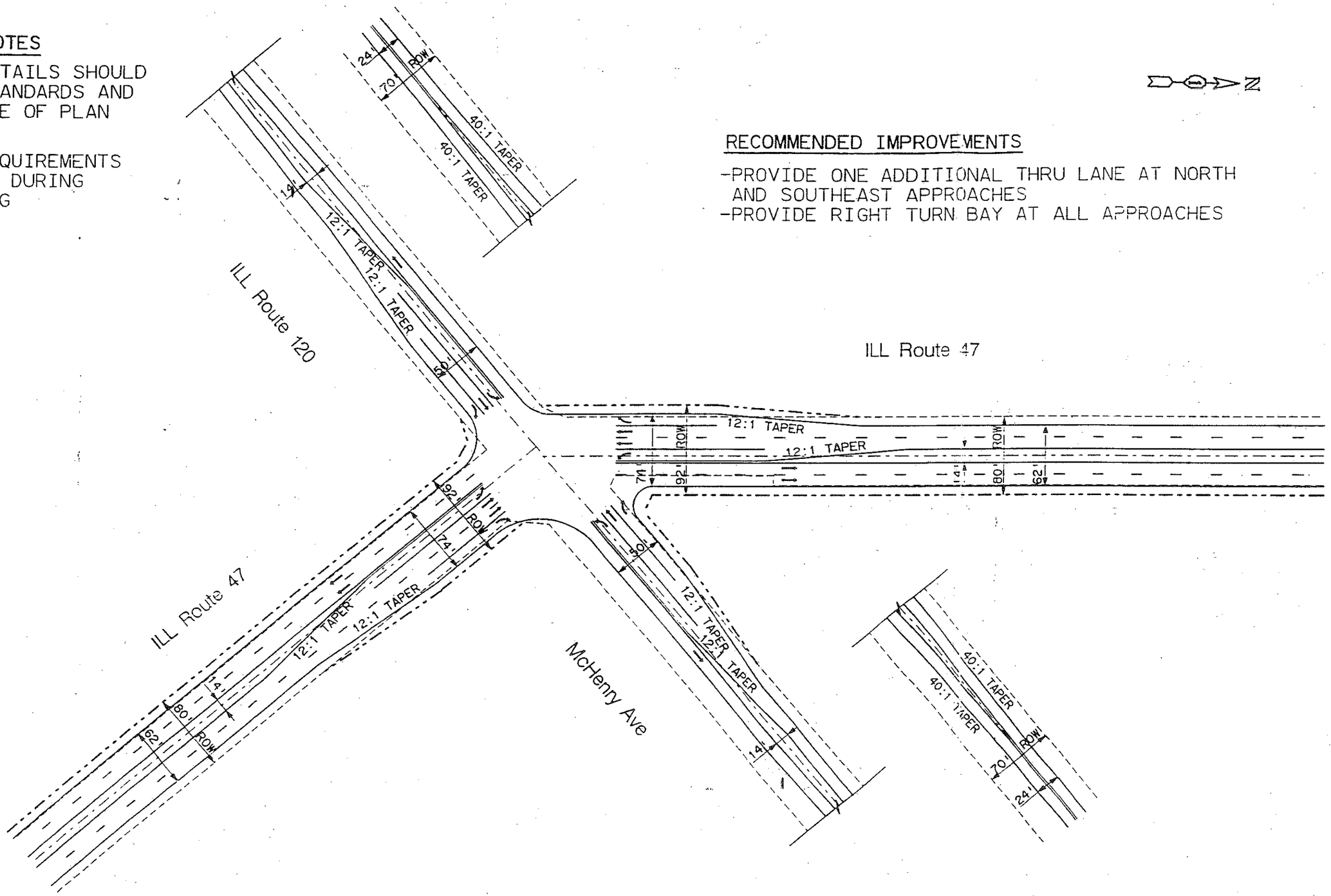


Exhibit ID 11-2
ILL Route 47 at ILL Route 120 /McHenry Ave

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ----- Existing Right-Of-Way
——— Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

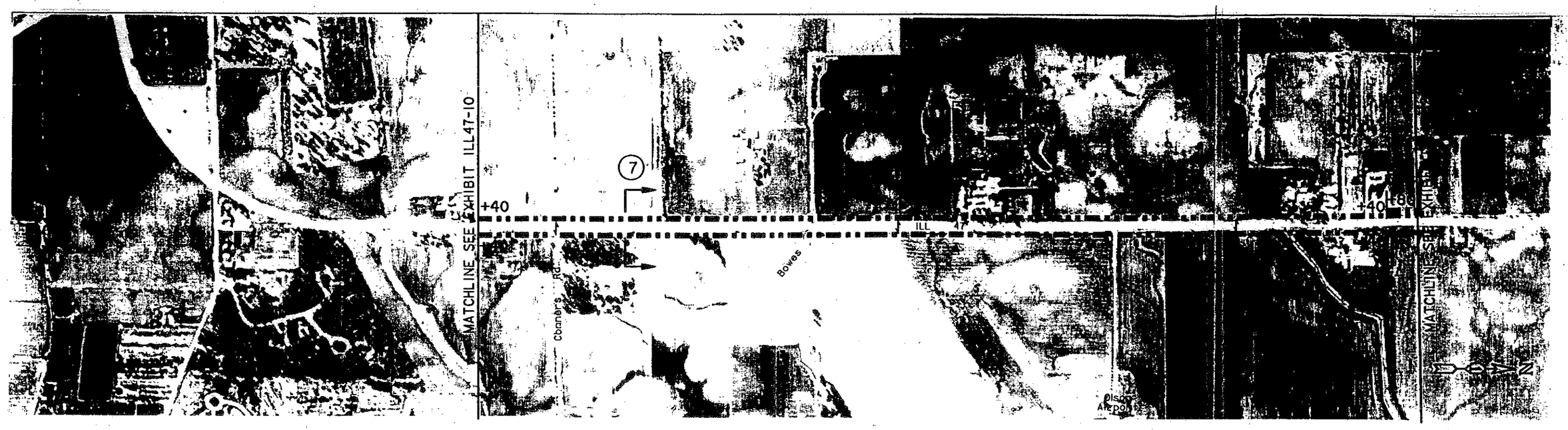
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

Exhibit ILL47–11a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 7

INTERSECTION DIAGRAM

SIGNAL SPACING

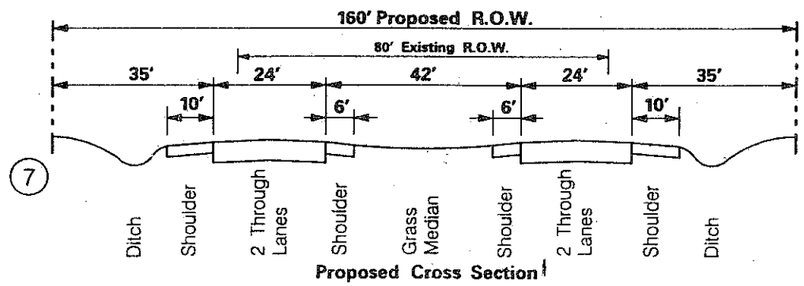
LANE CONFIGURATION

25,950'

2

2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY

Exhibit ILL47-11b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 — Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
F — Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

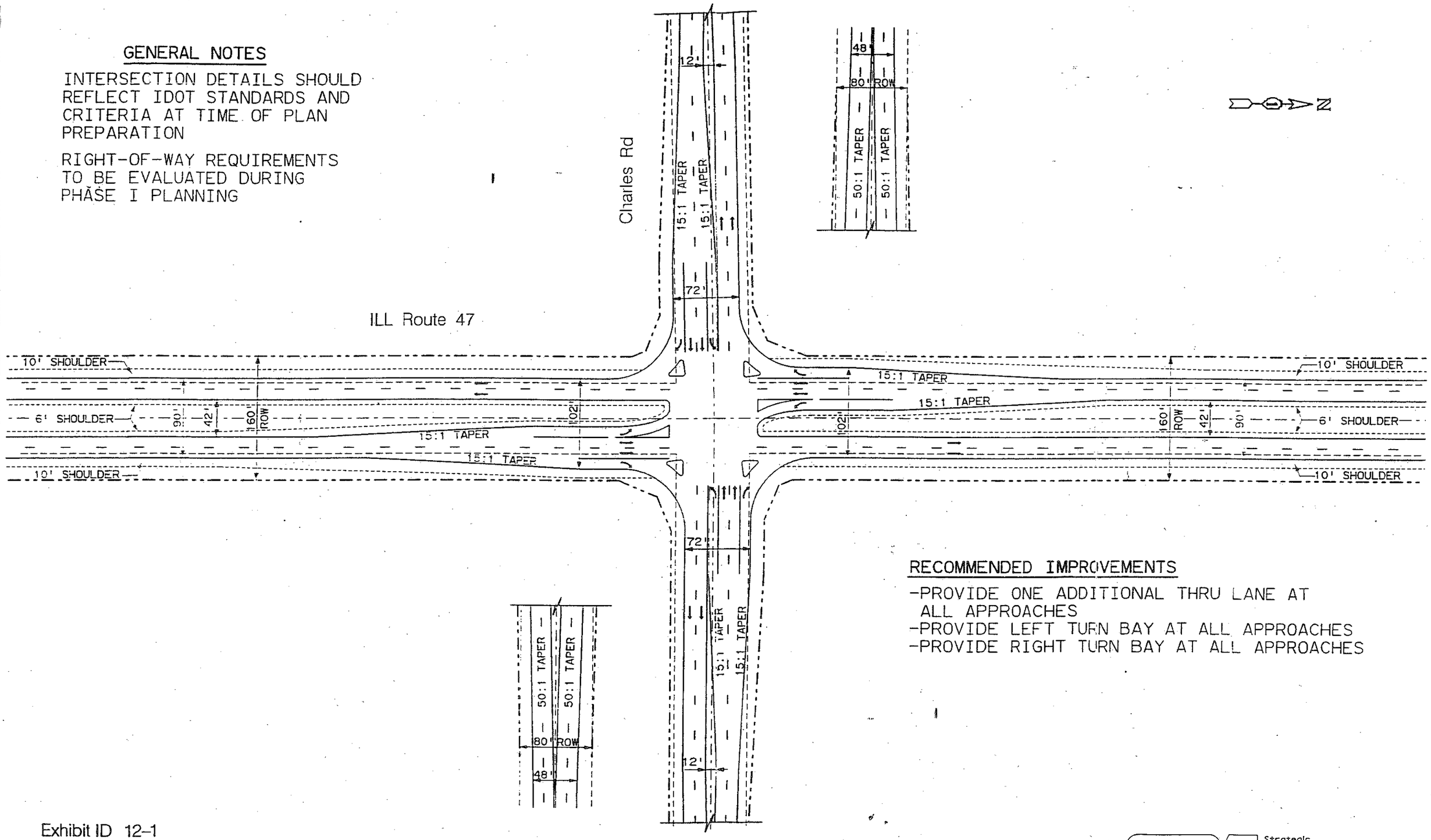
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd KRW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT ALL APPROACHES
-PROVIDE LEFT TURN BAY AT ALL APPROACHES
-PROVIDE RIGHT TURN BAY AT ALL APPROACHES

Exhibit ID 12-1
ILL Route 47 at Charles Rd

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
———— Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94

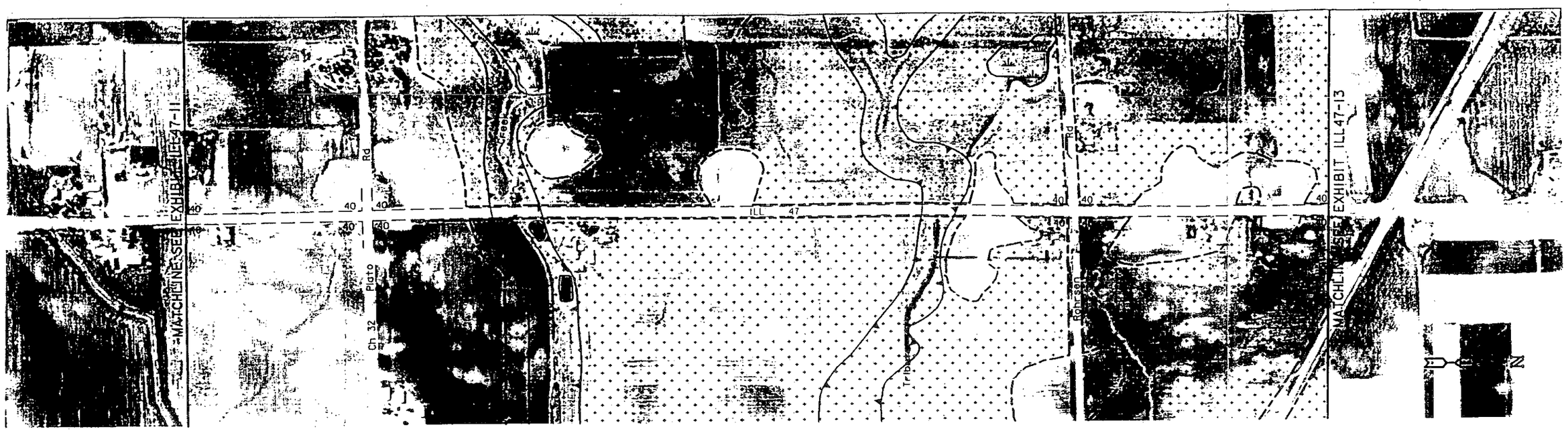
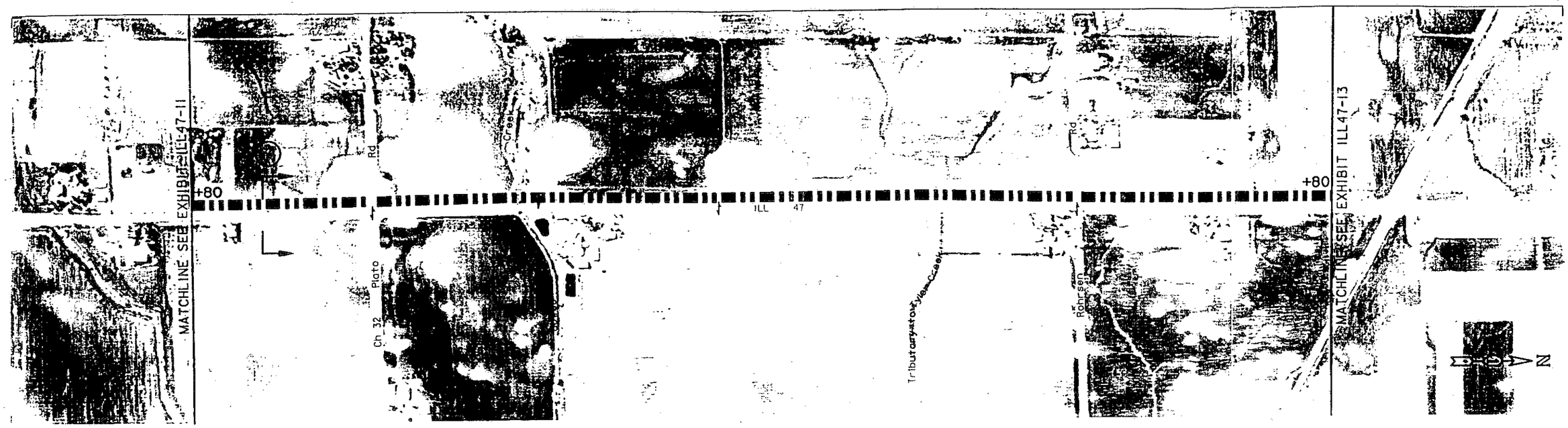


Exhibit ILL47–12a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 7

INTERSECTION DIAGRAM

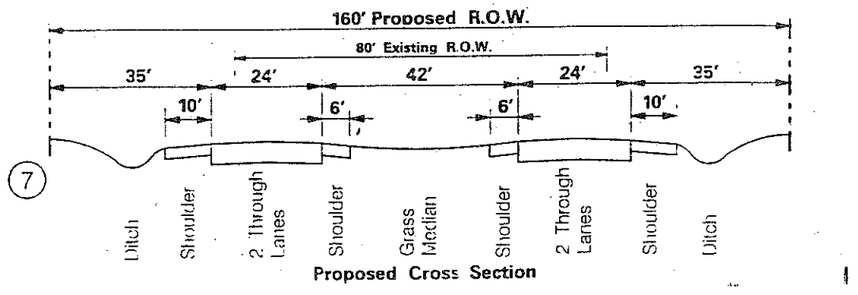
SIGNAL SPACING

25,950'

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY

Exhibit ILL47-12b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Median Break
+20 Additional Right-Of-Way
Proposed Right-Of-Way
Cul-De-Sac
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

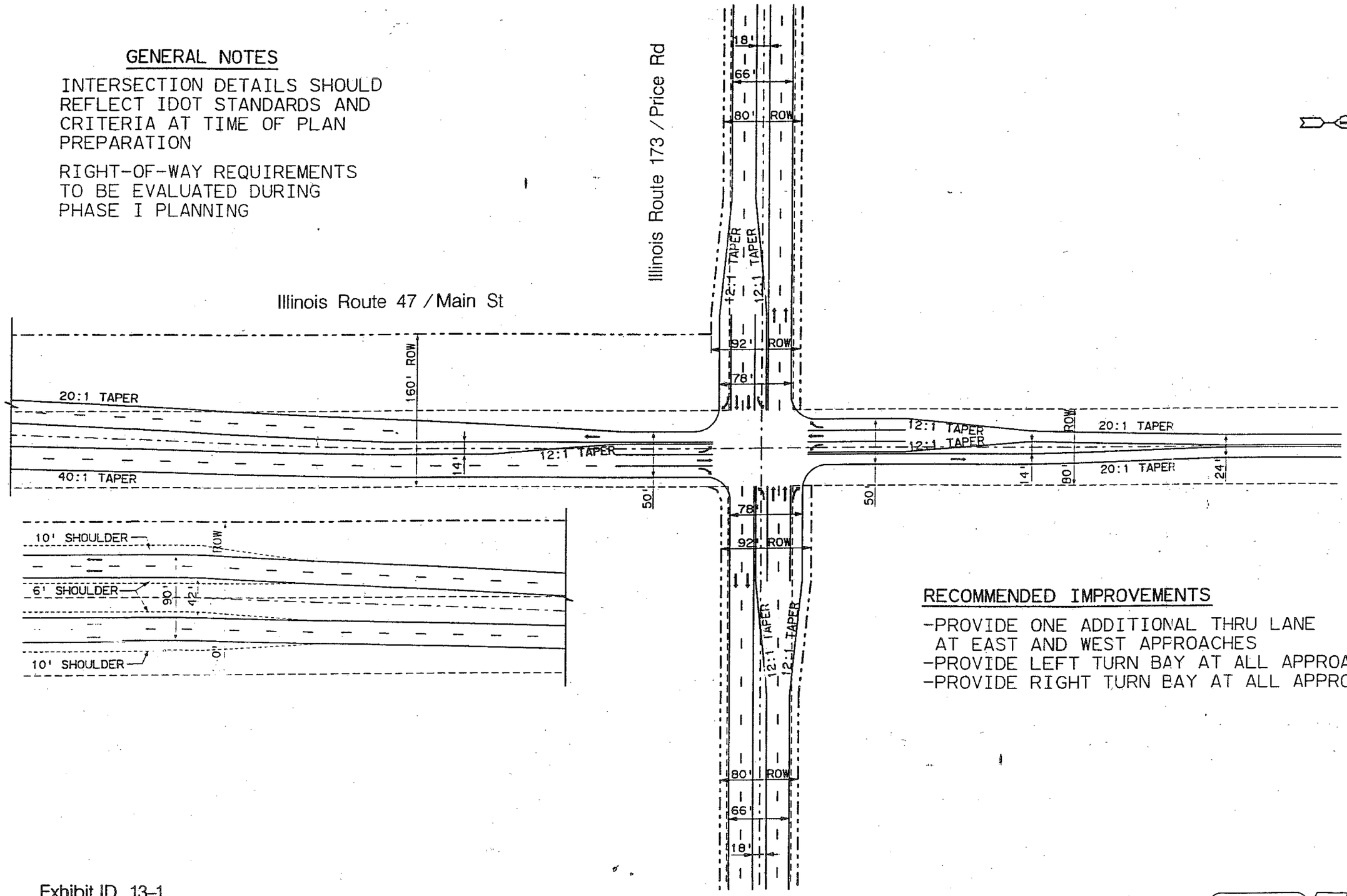
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

GENERAL NOTES

INTERSECTION DETAILS SHOULD REFLECT IDOT STANDARDS AND CRITERIA AT TIME OF PLAN PREPARATION

RIGHT-OF-WAY REQUIREMENTS TO BE EVALUATED DURING PHASE I PLANNING



RECOMMENDED IMPROVEMENTS

-PROVIDE ONE ADDITIONAL THRU LANE AT EAST AND WEST APPROACHES
-PROVIDE LEFT TURN BAY AT ALL APPROACHES
-PROVIDE RIGHT TURN BAY AT ALL APPROACHES

Exhibit ID 13-1
Illinois Route 47 / Main St at Illinois Route 173 / Price Rd

GEOMETRIC DETAILS OF PROPOSED INTERSECTION IMPROVEMENTS

Legend ---- Existing Right-Of-Way
---- Proposed Right-Of-Way
ROW = Right-Of-Way

Scale In Feet
0 50 100 200

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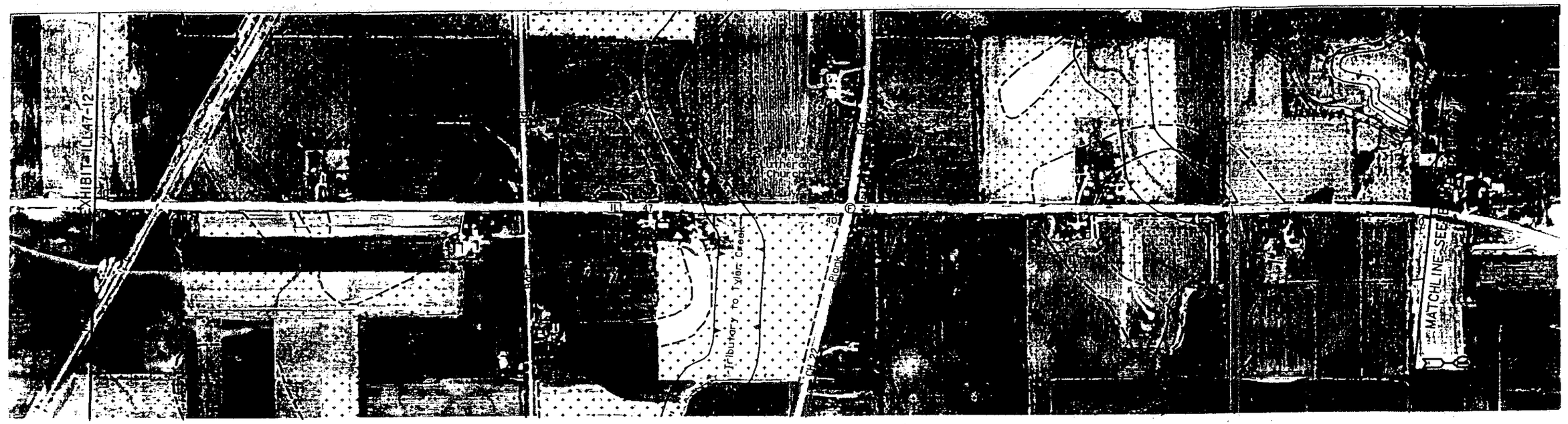
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd EMW Date 9/94



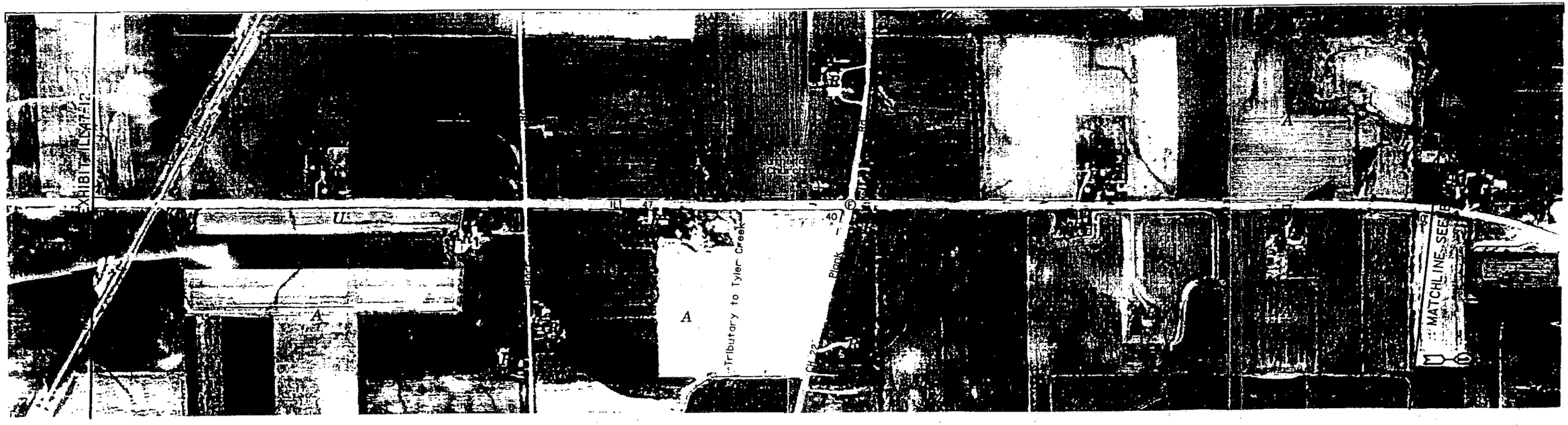


Exhibit ILL47–13a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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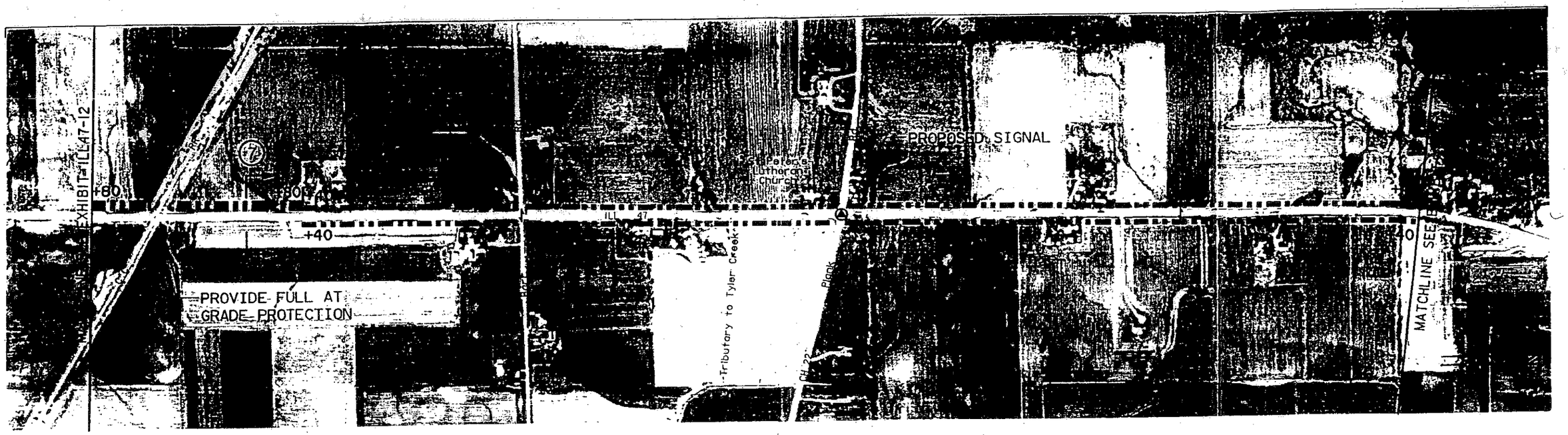


SEGMENT 7

INTERSECTION DIAGRAM

Plank Rd & ILL Route 47

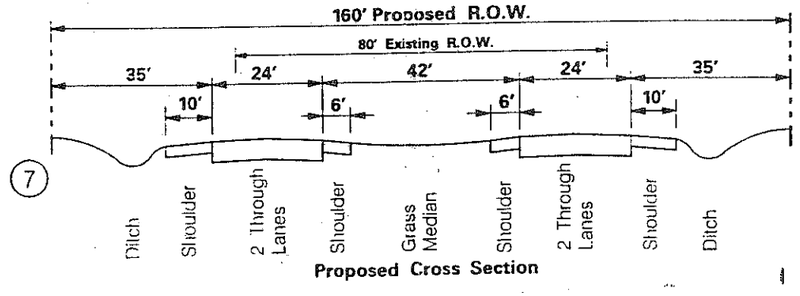
SIGNAL SPACING

25,950′ 11,300′

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-PROVIDE FULL AT GRADE PROTECTION AT CC RR
-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-PROVIDE SIGNAL AT PLANK RD AS WARRANTED

Exhibit ILL47-13b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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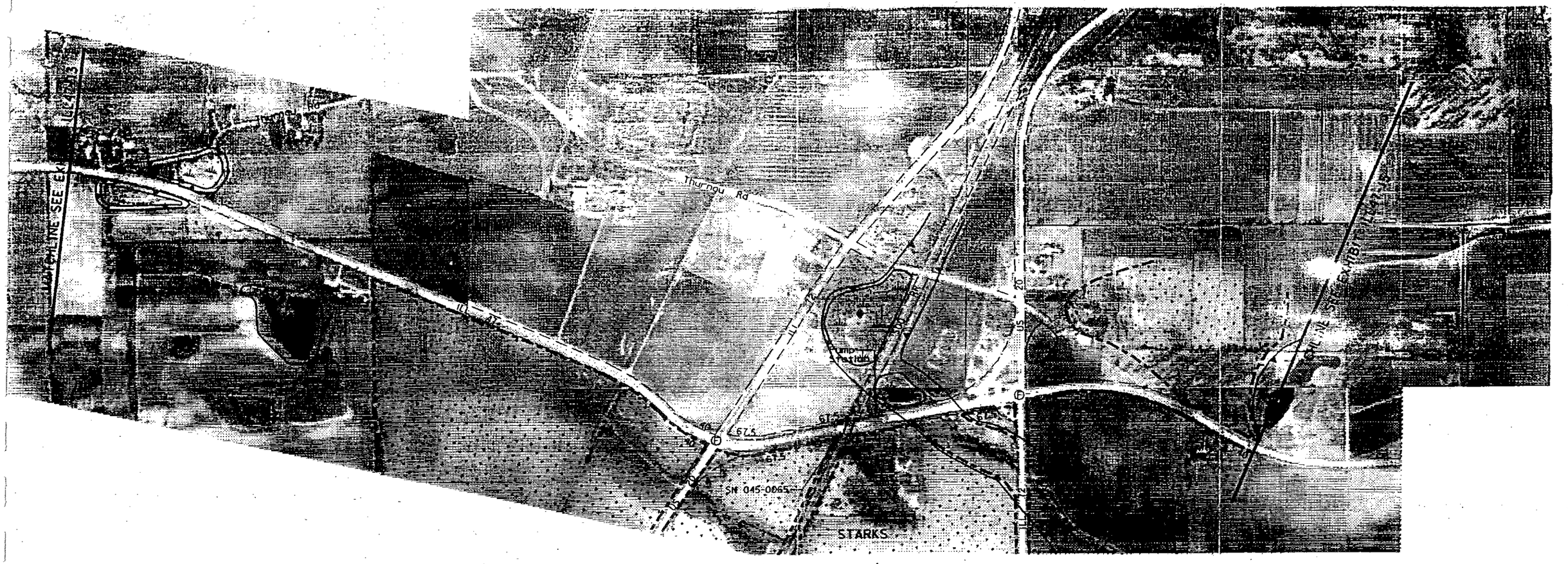

Exhibit ILL47–14a–1
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL

47-14e

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
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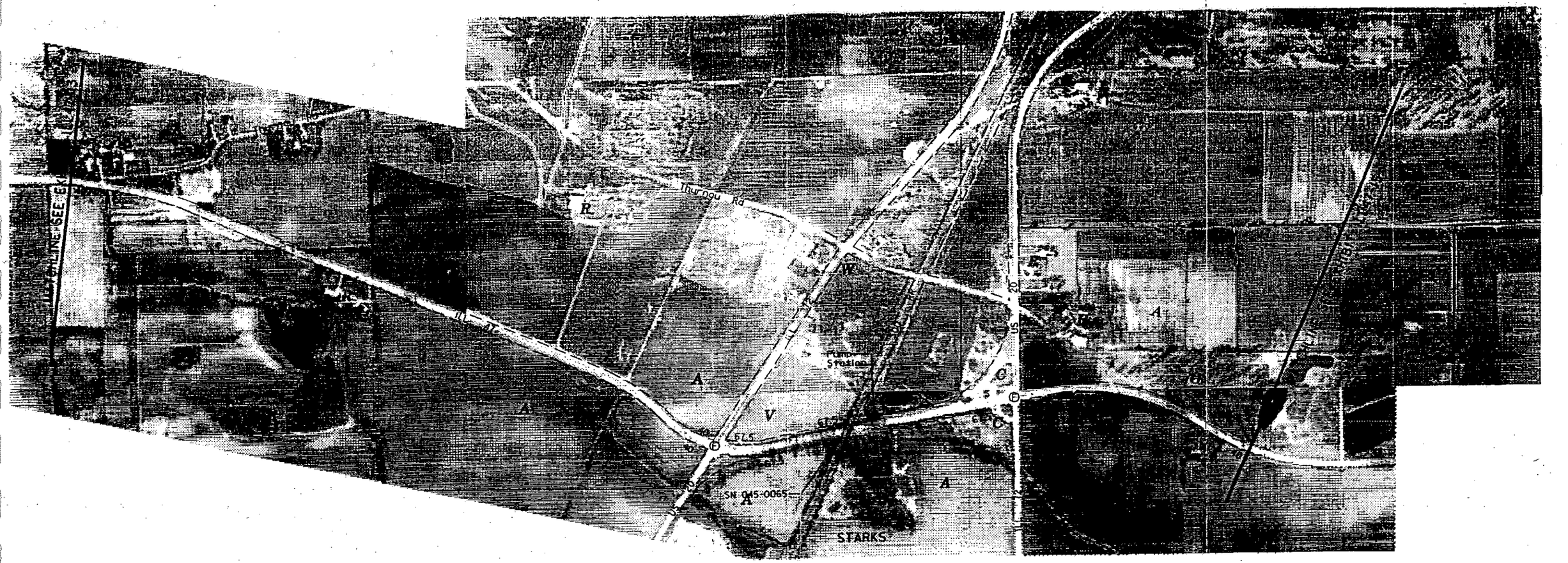

Exhibit ILL47–14a–2
Illinois Route 47

EXISTING CONDITIONS / LAND USE

Scale In Feet
0 200 400 800 1200

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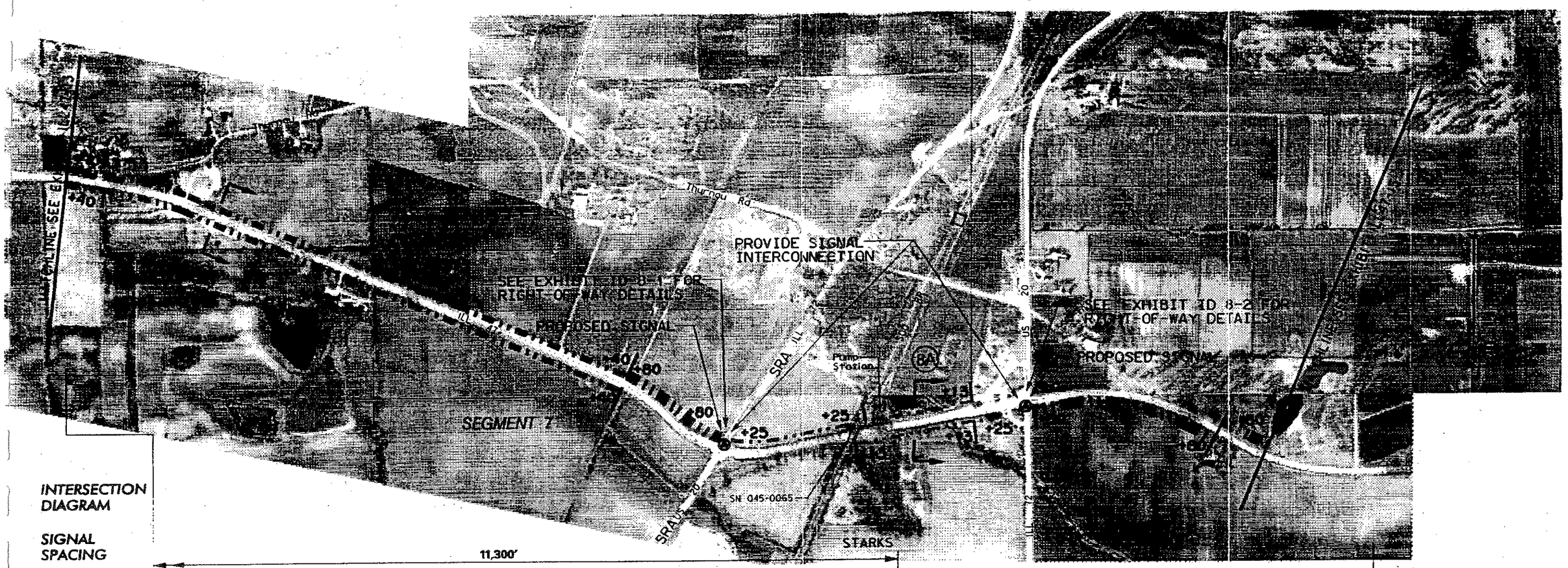


INTERSECTION DIAGRAM

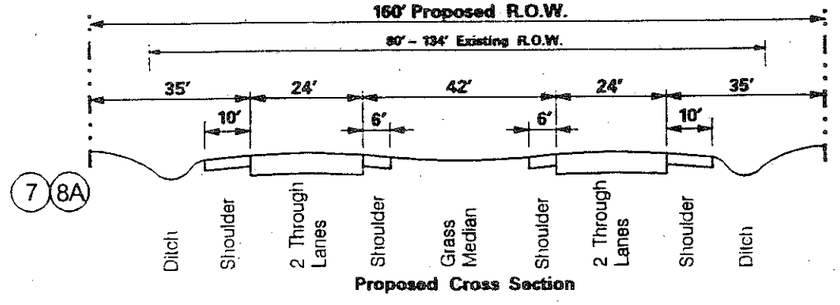
SIGNAL SPACING

11,300'

LANE CONFIGURATION

2
2

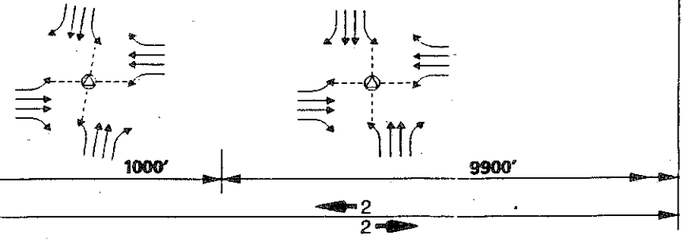
CROSS SECTIONS



Proposed Cross Section

ILL Route 72 & ILL Route 47 See Exhibit ID 8-1

US Route 20 & ILL Route 47 See Exhibit ID 8-2



NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-PROVIDE DIRECTIONAL SIGNS TO FUTURE METRA STATION AND PARK-AND-RIDE IN STARKS

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-RESERVE SPACE FOR FUTURE METRA STATION AND PARK-AND-RIDE EAST OF ILL ROUTE 47 NEAR SOO RR
-PROVIDE SIGNALS AND SIGNAL INTERCONNECTION AT US ROUTE 20 AND ILL ROUTE 72 AS WARRANTED

Exhibit ILL47-14b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
+20 — Additional Right-Of-Way
Proposed Right-Of-Way
Cul-De-Sac
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
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Exhibit ILL47-15a-1
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

47-15a

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

Exhibit ILL47–15a–2
Illinois Route 47

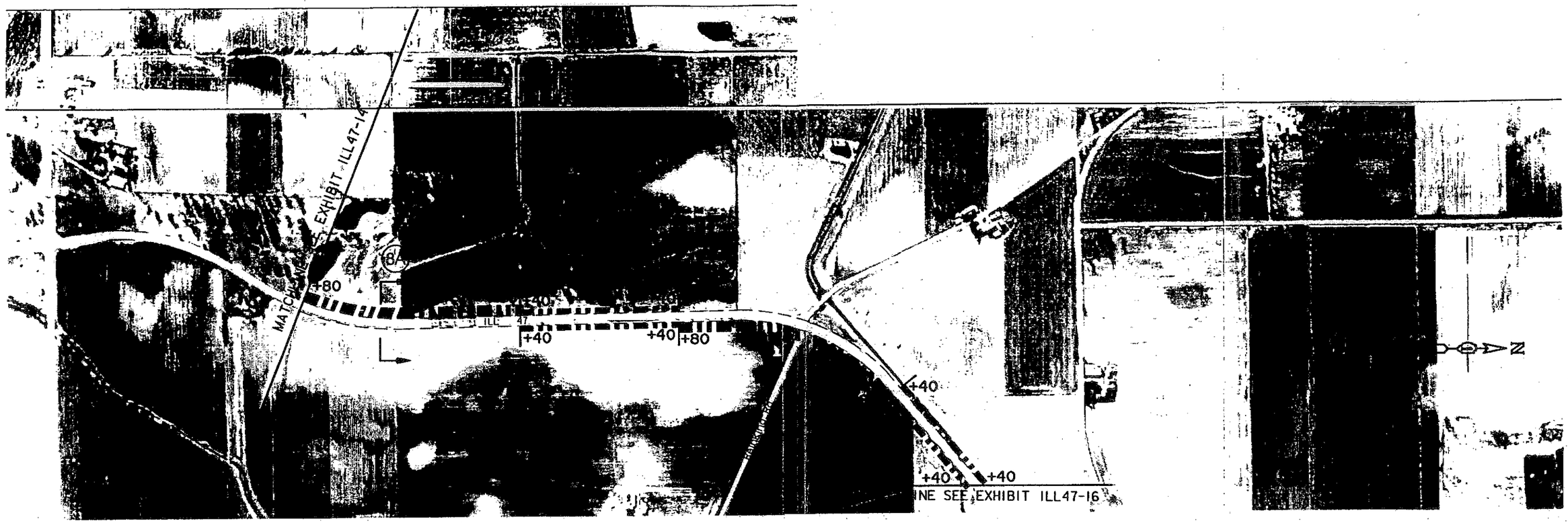
EXISTING CONDITIONS / LAND USE

47-151

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 8

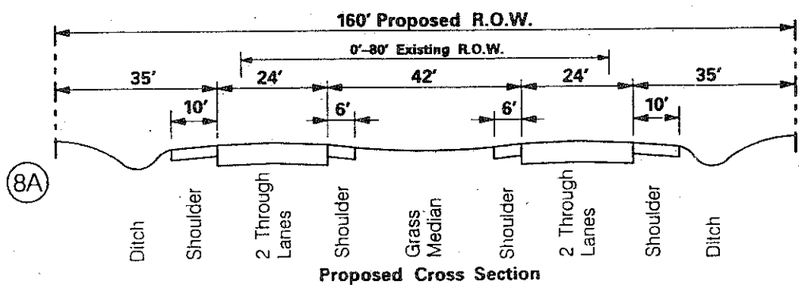
SIGNAL SPACING

9900'

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY

Exhibit ILL47-15b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Cul-De-Sac
+20 Additional Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 5/95 Chkd SAW Date 5/95

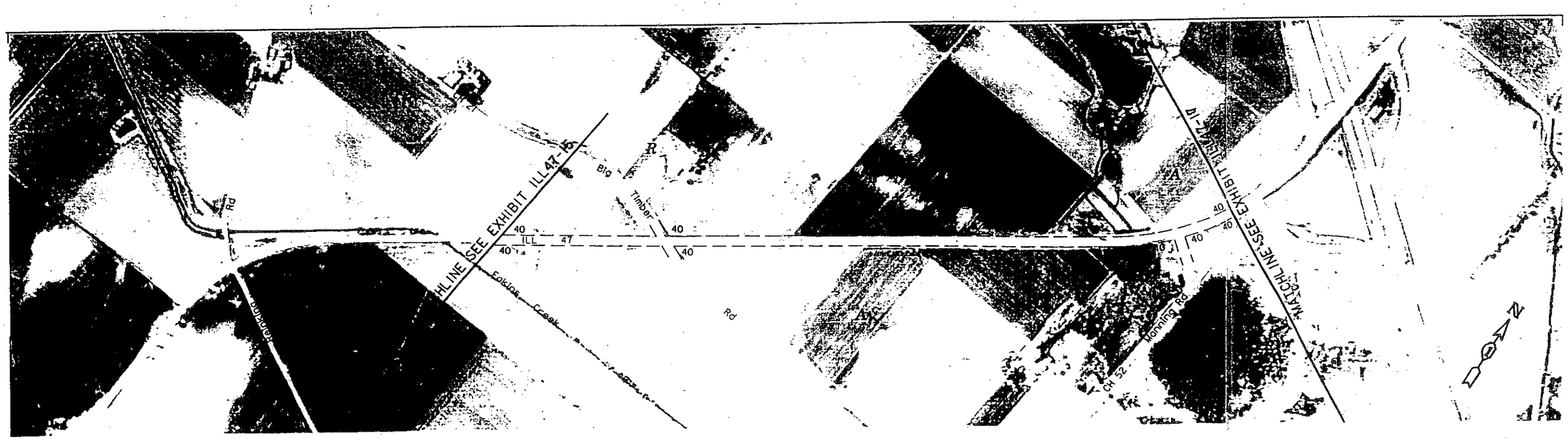
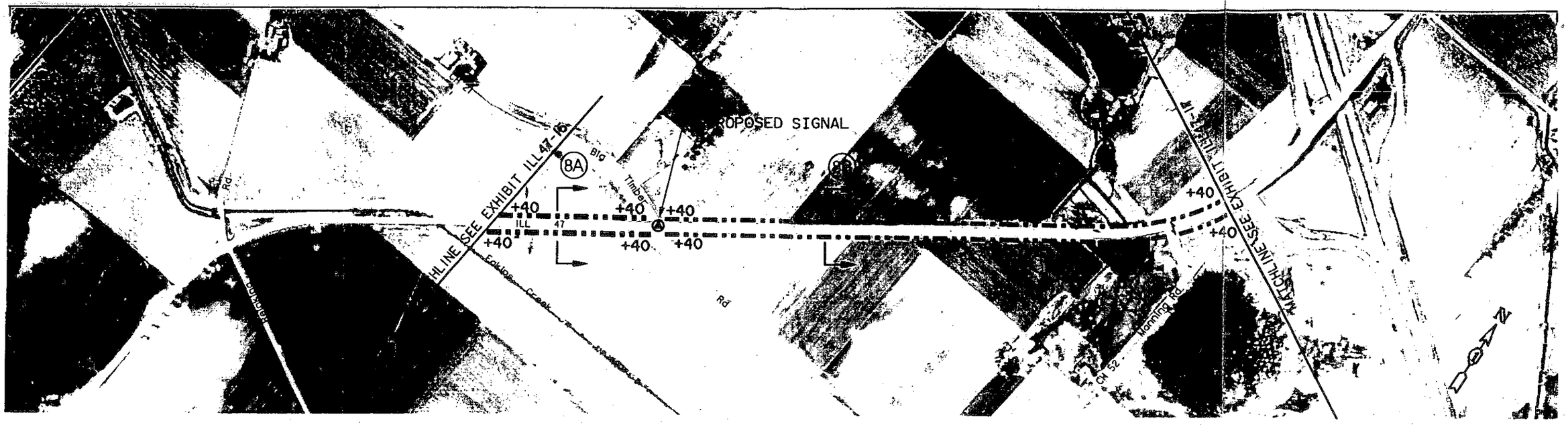


Exhibit ILL47–16a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

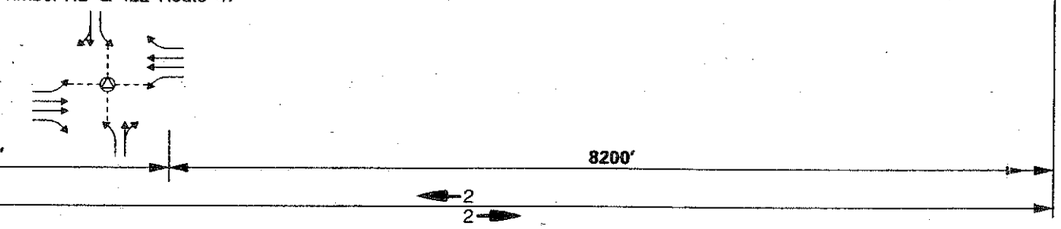
SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 8

INTERSECTION DIAGRAM

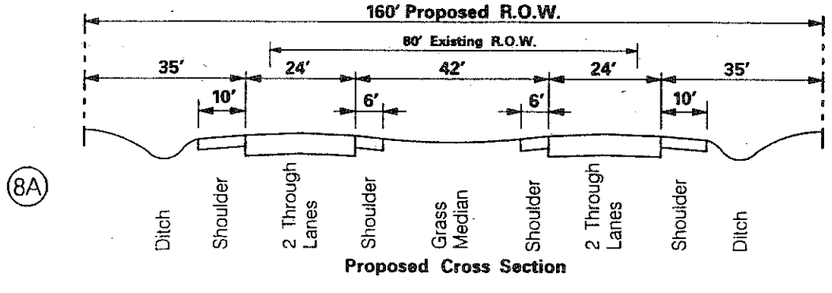
Big Timber Rd & ILL Route 47



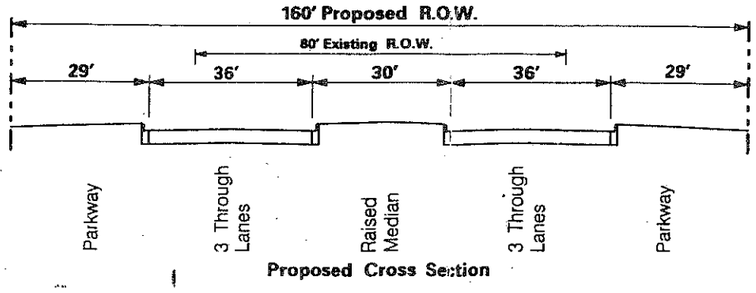
SIGNAL SPACING

LANE CONFIGURATION

CROSS SECTIONS



Proposed Cross Section



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING

-PROVIDE MEDIAN BREAKS AT ½ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-PROVIDE SIGNAL AT BIG TIMBER RD AS WARRANTED

Exhibit ILL47–16b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 — Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
Drwn JTS Date 9/94 Chkd KRW Date 9/94

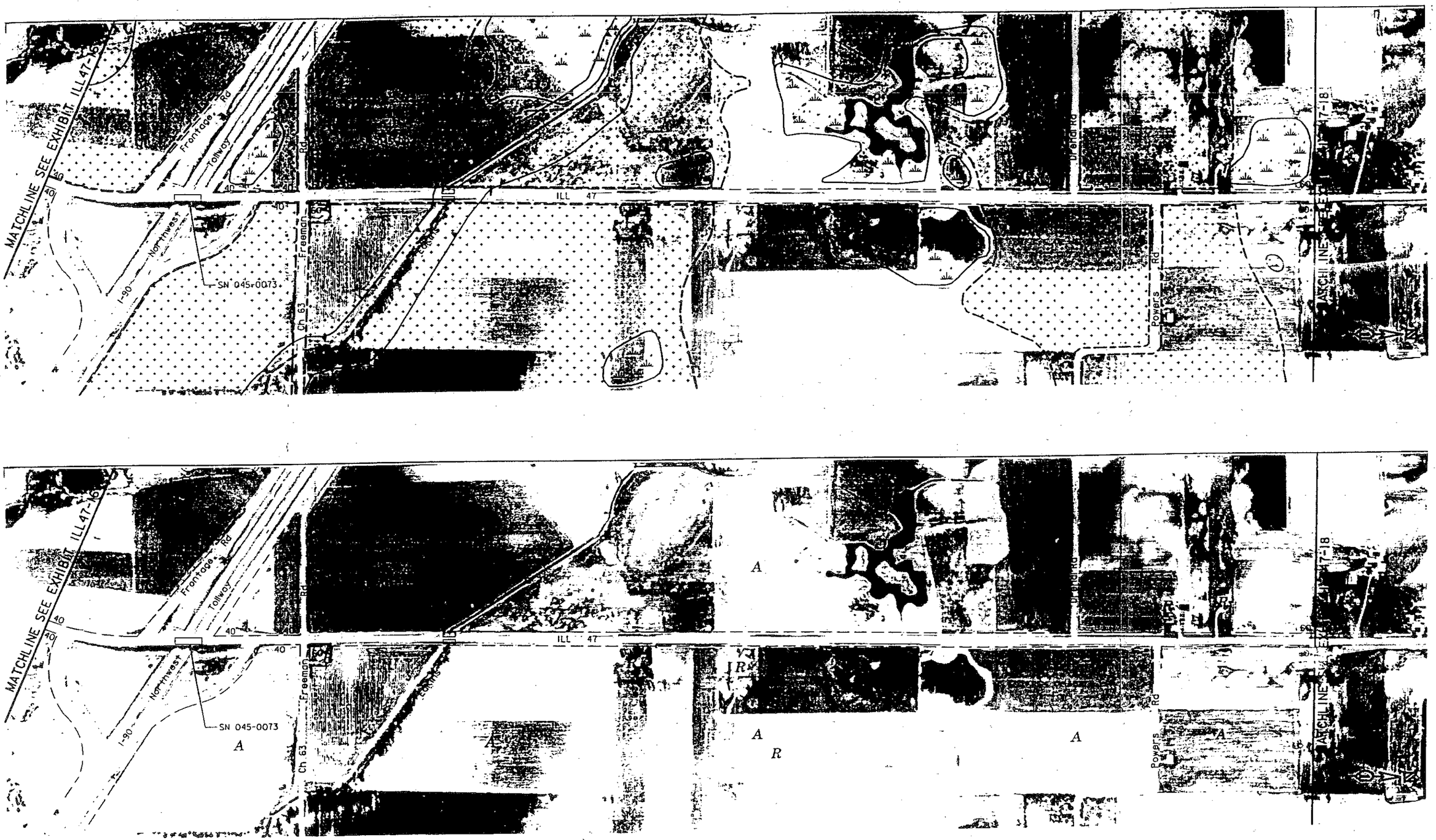


Exhibit ILL47–17a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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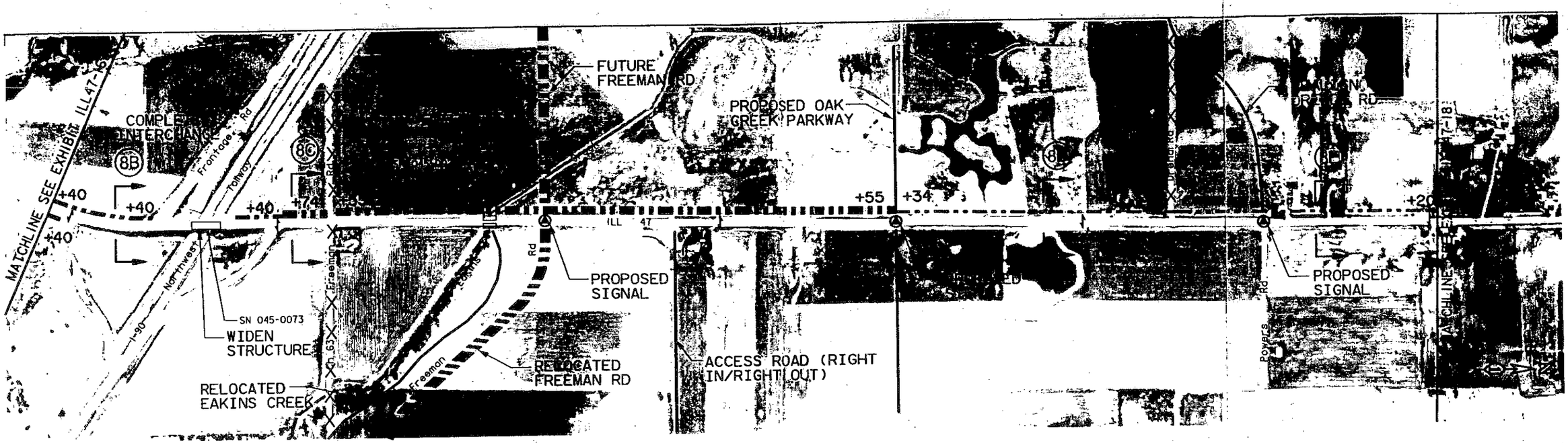


SEGMENT 8

INTERSECTION DIAGRAM

Freeman Rd & ILL Route 47

Drendl Rd & ILL Route 47

SIGNAL SPACING

8200′ | 4850′ | 3950′

LANE CONFIGURATION

2
2

CROSS SECTIONS

8C

175′ Proposed R.O.W.
120′ Existing R.O.W.
37′ | 36′ | 30′ | 36′ | 36′
Parkway | 3 Through Lanes | Raised Median | 3 Through Lanes | Parkway

Proposed Cross Section

8D

154′ Proposed R.O.W.
120′ Existing R.O.W.
26′ | 36′ | 30′ | 36′ | 26′
Parkway | 3 Through Lanes | Raised Median | 3 Through Lanes | Parkway

Proposed Cross Section

8E

140′ Proposed R.O.W.
120′ Existing R.O.W.
31′ | 24′ | 30′ | 24′ | 31′
Parkway | 2 Through Lanes | Raised Median | 2 Through Lanes | Parkway

Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AT I-90
-WIDEN STRUCTURE OVER I-90
-FINAL COMPLETE INTERCHANGE CONFIGURATION AT I-90 TO BE DETERMINED
-PROVIDE SIGNALS AT FREEMAN RD, OAK CREEK PARKWAY, AND POWERS RD AS WARRANTED

-PROVIDE MEDIAN BREAKS AT ¼ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REALIGN DRENDL RD (PRIME GROUP IMPROVEMENTS)
-PRIME GROUP RESPONSIBLE FOR WIDENING FROM 2 LANES TO 4 LANES BETWEEN POWERS RD AND I-90

Exhibit ILL47-17b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend: SN Structure Number / Existing Structure; +20 Cul-De-Sac / Additional Right-Of-Way; New Signal / Existing Signal; Flashing Signal / Remove Signal

Scale In Feet: 0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION

MERIDIAN ENGINEERS & PLANNERS, INC.

Drwn JTS Date 5/95 Chkd SAW Date 5/95

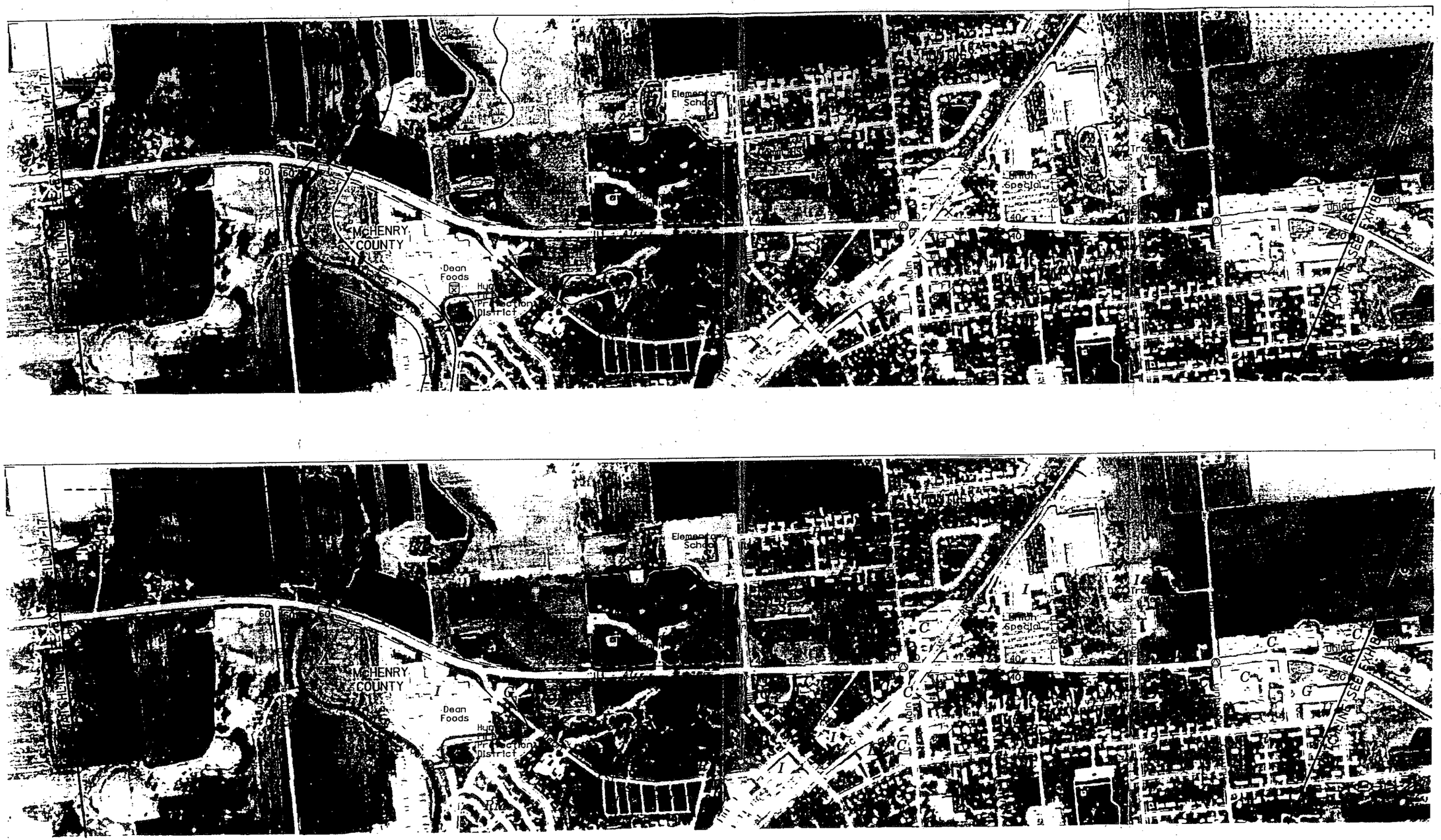


Exhibit ILL47–18a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.

SEGMENT 8

SEGMENT 9

	Kreutzer Rd & ILL Route 47	Dean St & ILL Route 47	Mill St & ILL Route 47	Main St & ILL Route 47 See Exhibit ID 9-1	Huntley Algonquin Rd & ILL Route 47 See Exhibit ID 9-2
INTERSECTION DIAGRAM					
SIGNAL SPACING	3950'	1900'	2150'	1300'	2700' 26,200'
LANE CONFIGURATION				2 / 2	

EXHIBITS

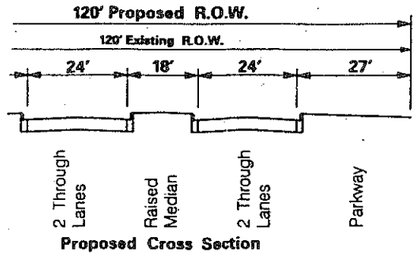
ILL 47-11b to ILL 47-16

CLE OF ORDER -- PAGES

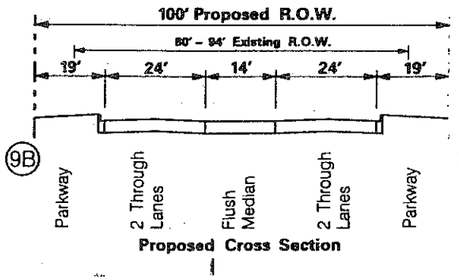
AFTER EXHIBIT ILL47-22b

CROSS SECTIONS

(8E)



(9B)



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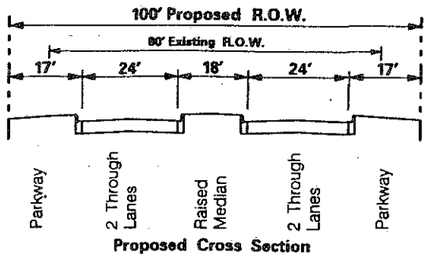

NOTES

ERS, AND

D SIGNAL

MAIN ST INTERSECTION
ENT)
-EXTEND KREUTZER RD
-PROVIDE SIDEWALK BETWEEN DEAN ST AND S. UNION RD
-PROVIDE DIRECTIONAL SIGNING TO FUTURE HUNTLEY METRA STATION

-PROVIDE MEDIAN BREAKS AT ¼ MILE SPACING; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-RESERVE SPACE FOR FUTURE METRA STATION AND PARK-AND-RIDE
-REALIGN DEAN ST TO FORM 90 DEGREE INTERSECTION WITH ILL ROUTE 47
-WIDEN STRUCTURE OVER SOUTH BRANCH OF KISHWAUKEE RIVER
-PROVIDE SIGNALS AT KREUTZER RD, DEAN ST, AND MILL ST AS WARRANTED
-PROVIDE SIGNAL INTERCONNECTION BETWEEN KREUTZER RD, DEAN ST, MILL ST, MAIN ST, AND HUNTLEY ALGONQUIN RD

Exhibit ILL47-18b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
(F) Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
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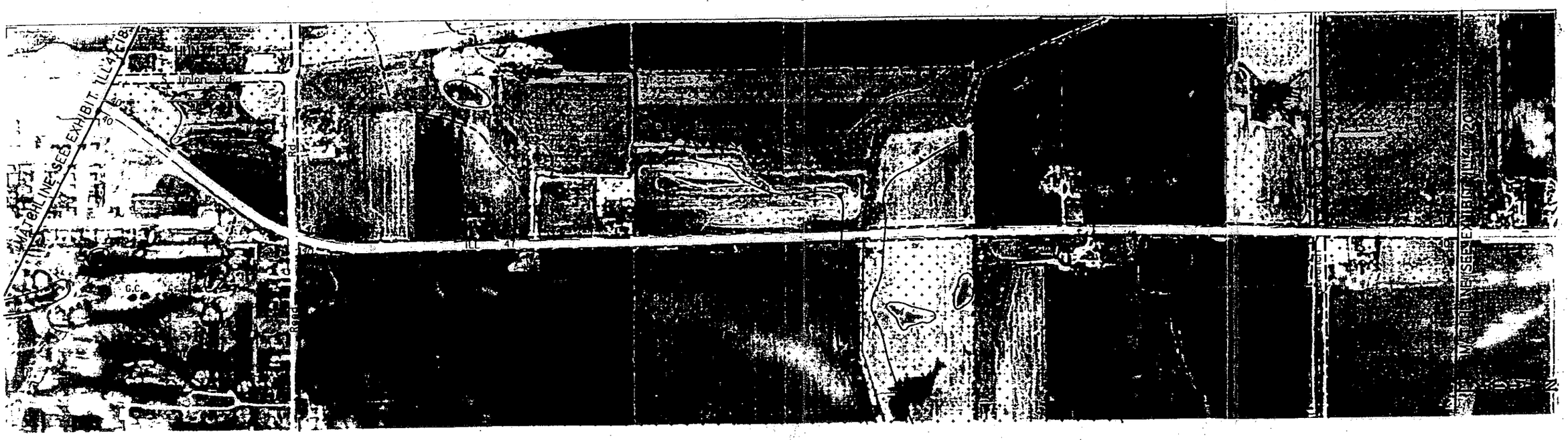

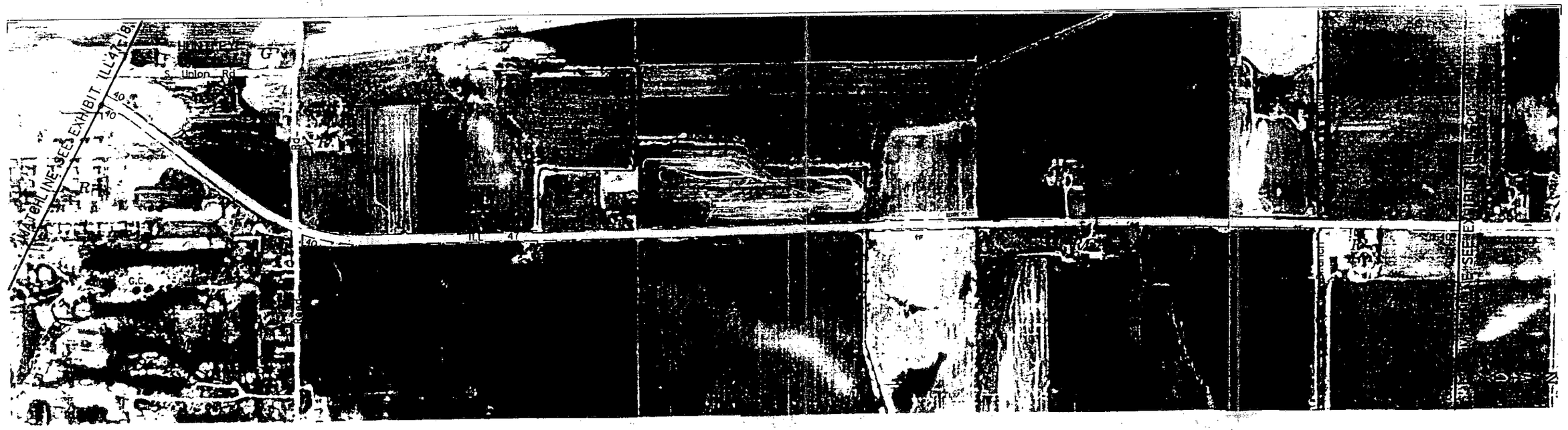

Exhibit ILL47–19a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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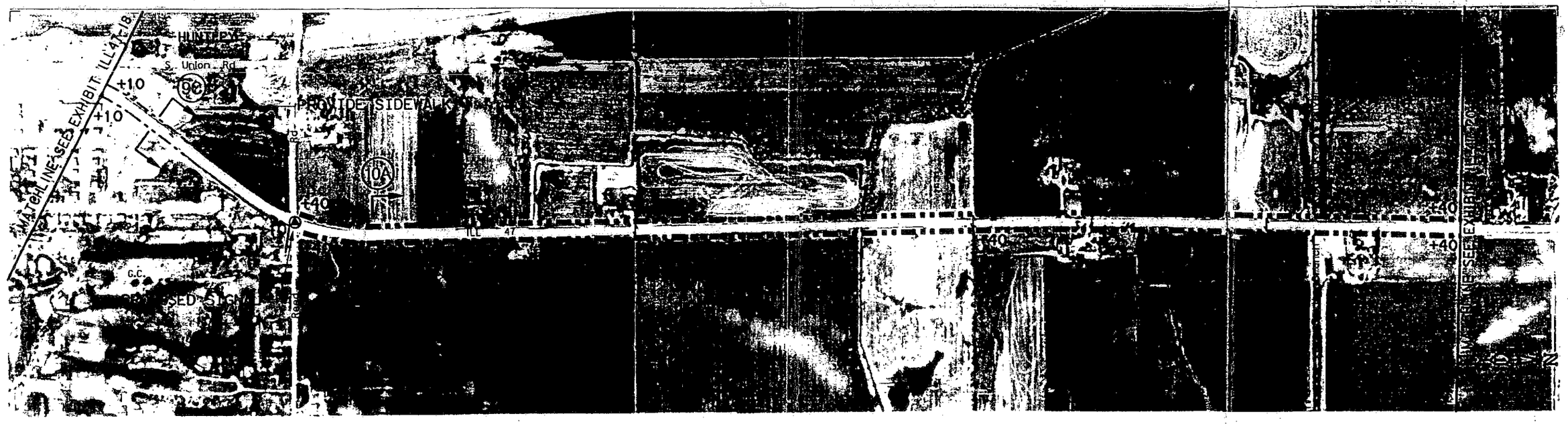


SEGMENT 9

SEGMENT 10

INTERSECTION DIAGRAM

SIGNAL SPACING

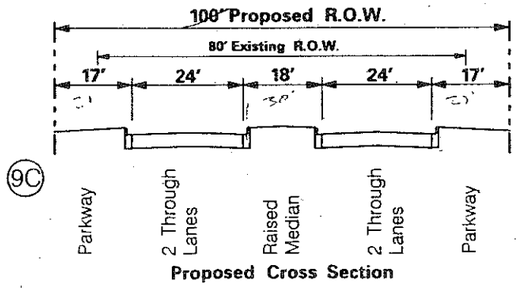
26,200'

LANE CONFIGURATION

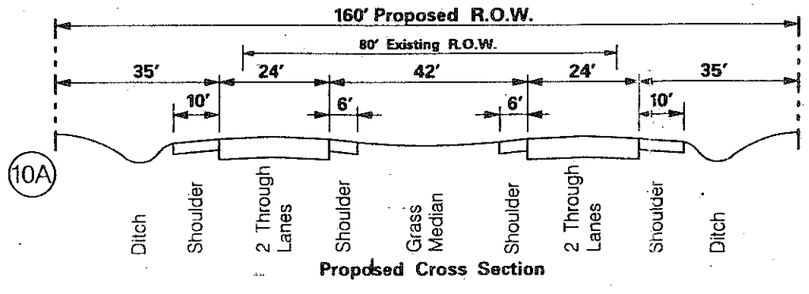
2
2

2
2

CROSS SECTIONS



Proposed Cross Section



Proposed Cross Section

NOTES

-PROVIDE SIGNAL AT REED RD
-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT AT REED RD

-PROVIDE MEDIAN BREAKS AT REED RD AND AT ½ MILE SPACING BETWEEN REED RD AND CONLEY RD; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-PROVIDE SIDEWALK BETWEEN DEAN ST AND REED RD

Exhibit ILL47-19b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number / Existing Structure
Cul-De-Sac
+20 — Additional Right-Of-Way
New Signal / Existing Signal
Flashing Signal / Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.
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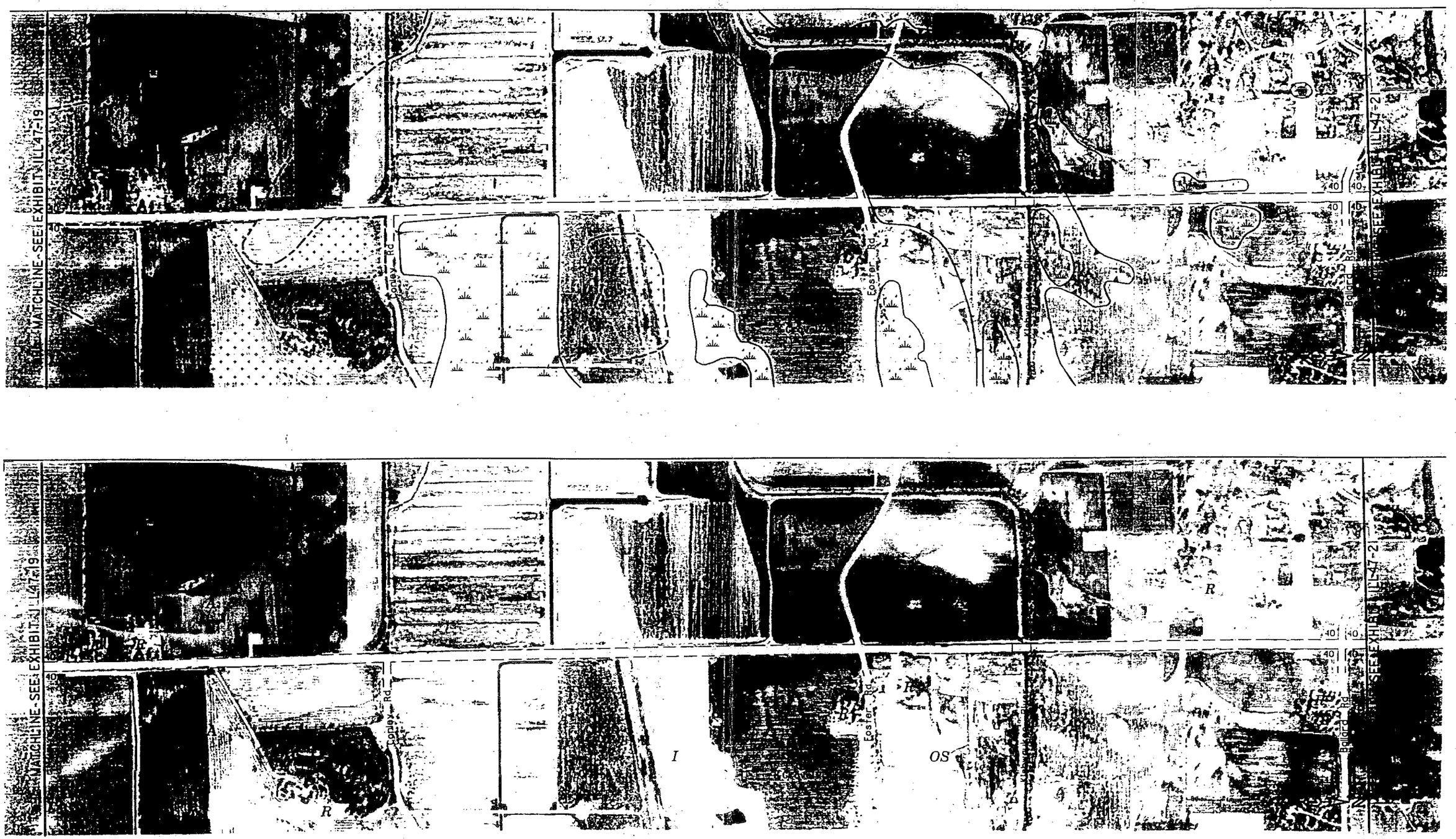

Exhibit ILL47–20a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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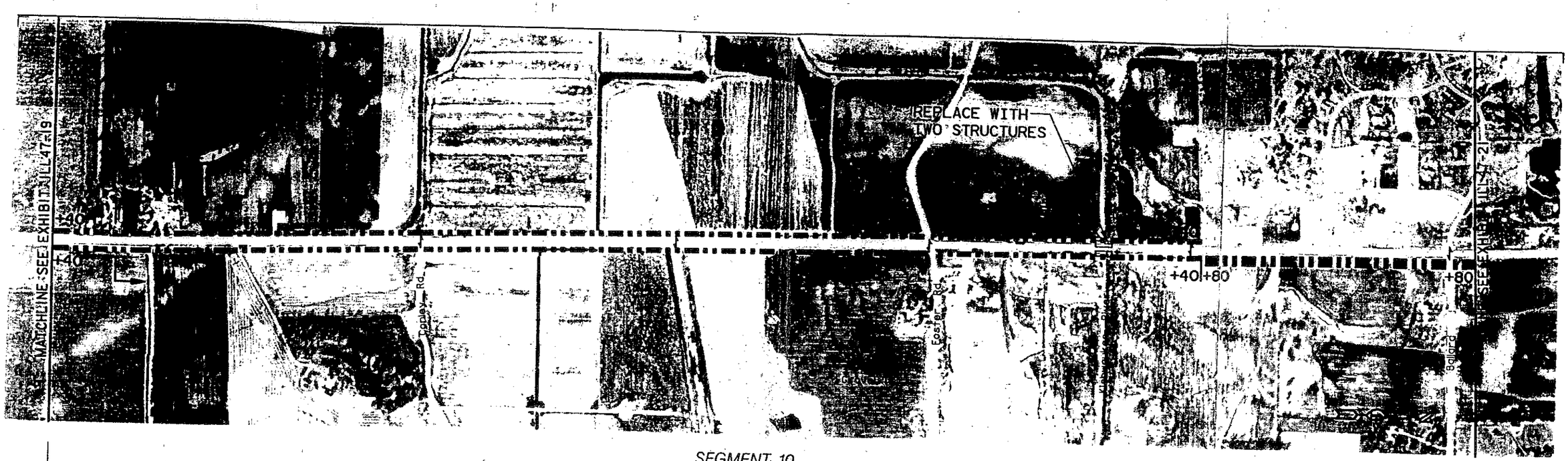
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 10

INTERSECTION DIAGRAM

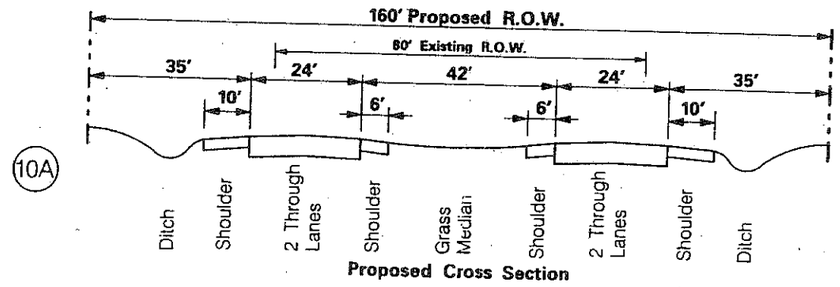
SIGNAL SPACING

LANE CONFIGURATION

26,200'

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT CONLEY RD AND FOSTER RD

-PROVIDE MEDIAN BREAKS AT CONLEY RD, FOSTER RD, BALLARD RD, AND HALFWAY BETWEEN CONLEY RD AND FOSTER RD, AND BETWEEN FOSTER RD AND BALLARD RD; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY
-REPLACE EXISTING STRUCTURE OVER KISHWAUKEE RIVER WITH TWO STRUCTURES

Exhibit ILL47-20b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
+20 — Additional Right-Of-Way
Cul-De-Sac
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
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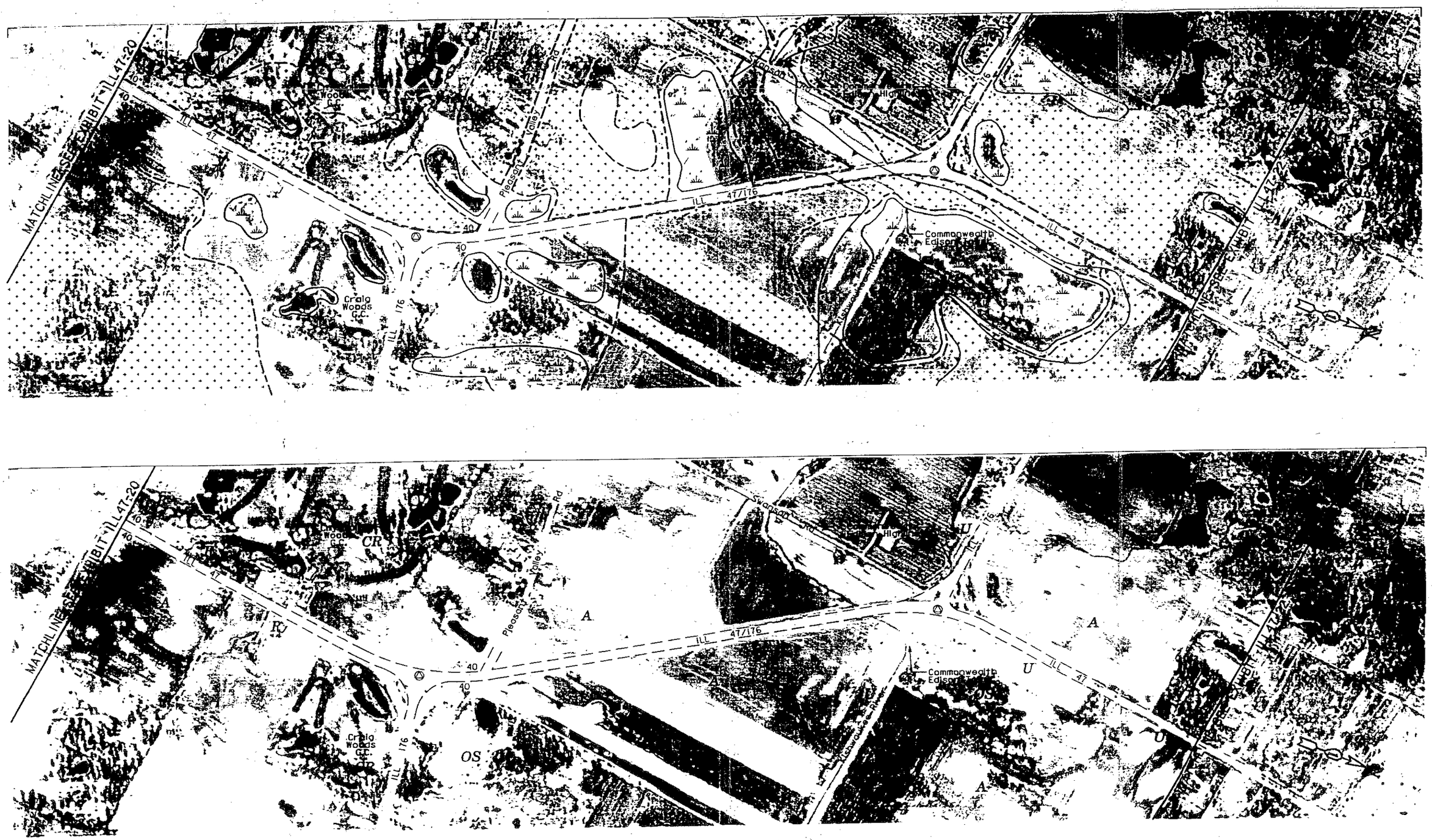

Exhibit ILL47-21a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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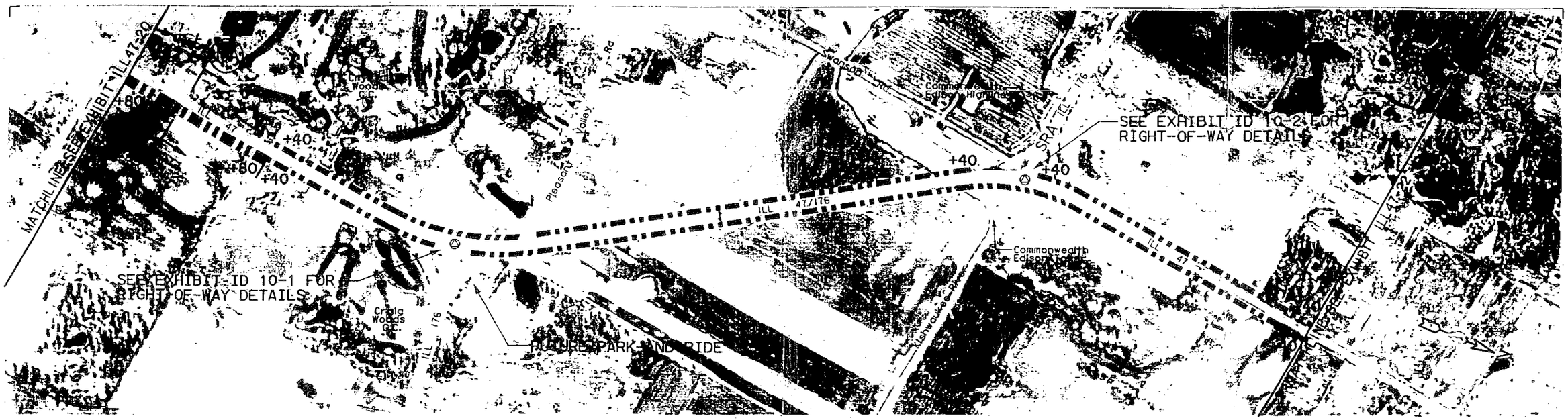


ILL Route 176 (S) & ILL Route 47
See Exhibit ID 10-1

SEGMENT 10

ILL Route 176 (N) & ILL Route 47
See Exhibit ID 10-2

INTERSECTION DIAGRAM

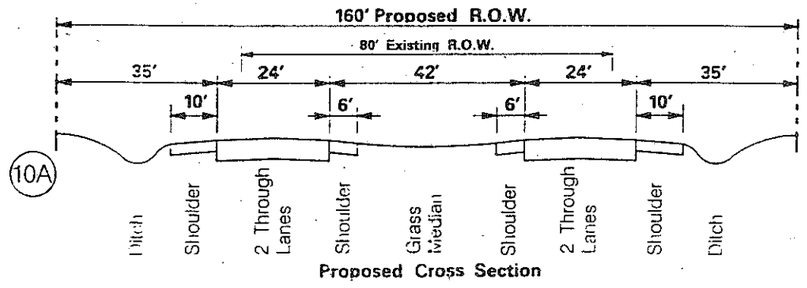
SIGNAL SPACING

26,200′ — 4,450′ — 11,750′

LANE CONFIGURATION

2 / 2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AND BUS STOP AT ILL ROUTE 176 (SOUTH INTERSECTION)
-INSTALL SIGNAL PRE-EMPTION

-PROVIDE MEDIAN BREAK HALFWAY BETWEEN THE ILL ROUTE 176 INTERSECTIONS; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY

Exhibit ILL47-21b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number
Existing Structure
Median Break
+20 — Additional Right-Of-Way
Cul-De-Sac
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

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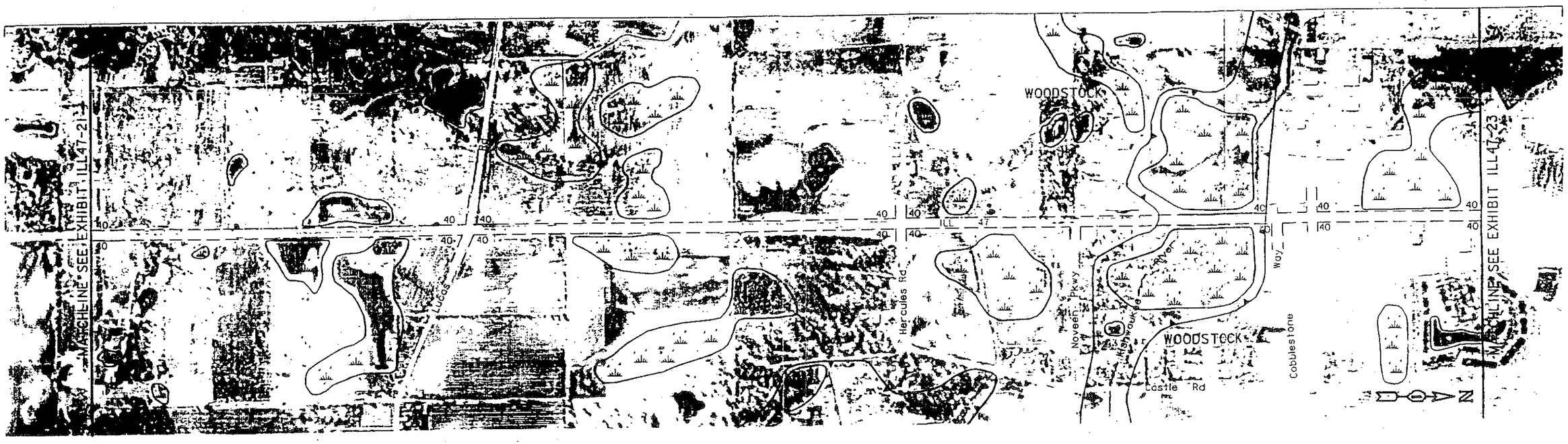

Exhibit ILL47–22a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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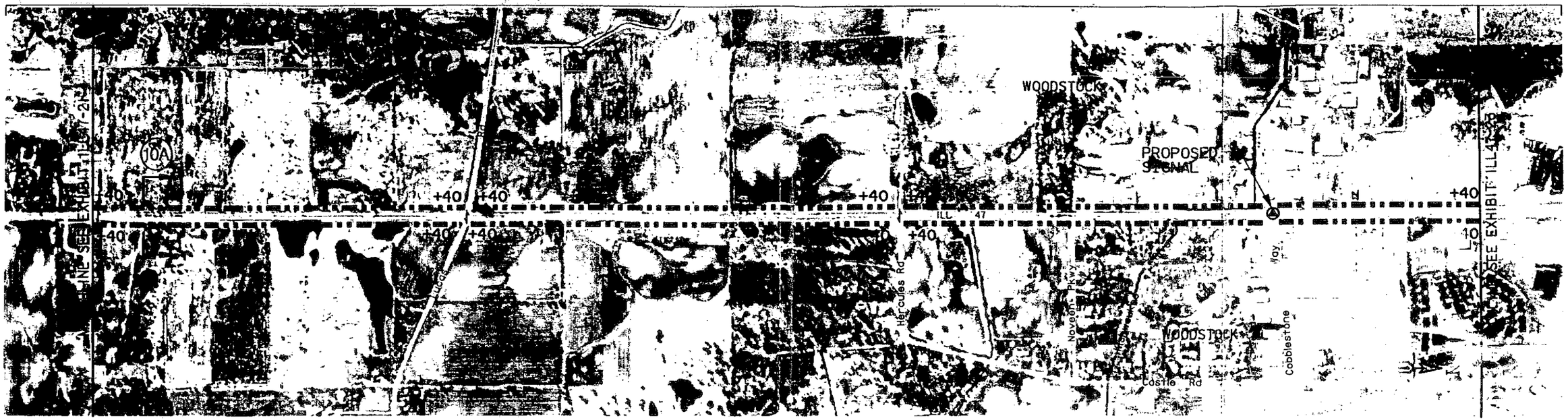


SEGMENT 10

INTERSECTION DIAGRAM

Cobblestone Way & ILL Route 47

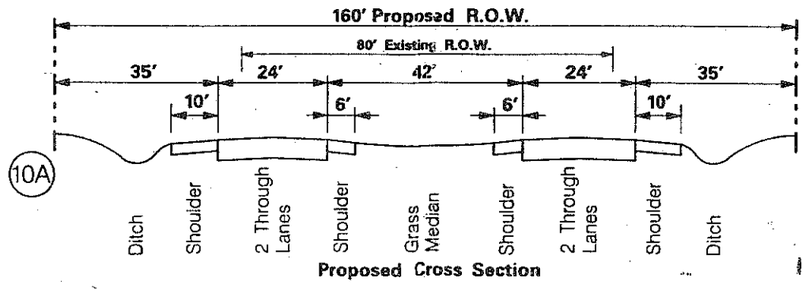
SIGNAL SPACING

11,750′ | 1900′

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-INSTALL DIRECTIONAL SIGNING TO WOODSTOCK METRA STATION
-PROVIDE SIGNAL AT COBBLESTONE WAY AS WARRANTED
-INSTALL SIGNAL PRE-EMPTION
-PROVIDE MEDIAN BREAKS AT LUCAS RD AND HERCULES RD AND HALFWAY BETWEEN ILL ROUTE 176 (NORTH) AND LUCAS RD; OTHER ACCESS RIGHT IN / RIGHT OUT ONLY

Exhibit ILL47-22b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN — Structure Number / Existing Structure
Cul-De-Sac
+20 — Additional Right-Of-Way
New Signal / Existing Signal
Flashing Signal / Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

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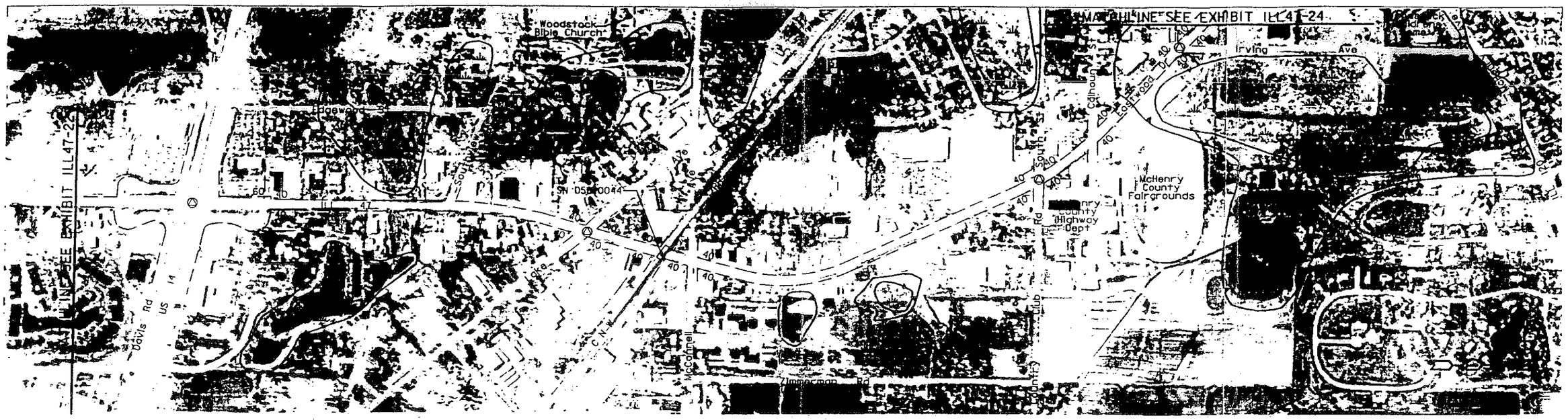

Exhibit ILL47–23a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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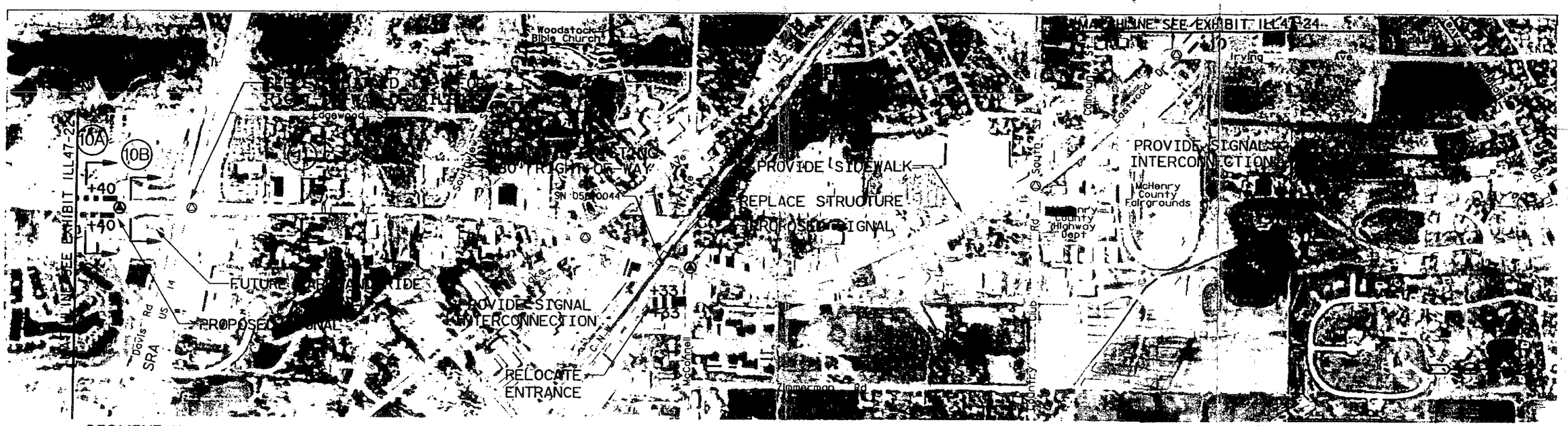
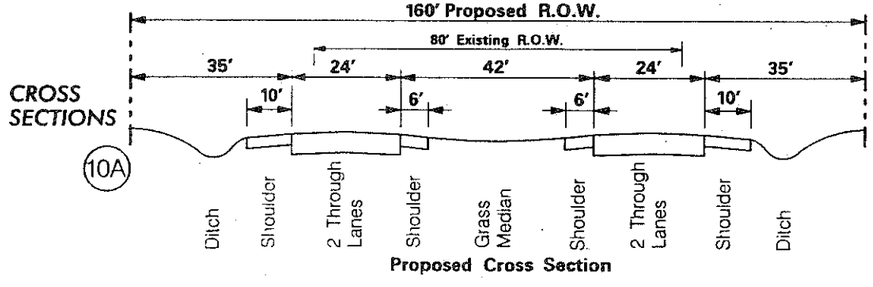


SEGMENT 10

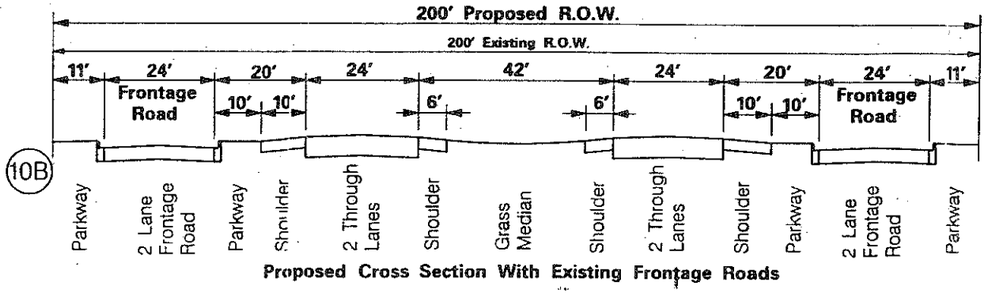
SEGMENT 11

	Frontage Road & ILL Route 47	US Route 14 & ILL Route 47 See Exhibit ID 11-1	Lake Ave & ILL Route 47	McConnell Ave & ILL Route 47	Country Club Rd & ILL Route 47	Irving Ave & ILL Route 47
INTERSECTION DIAGRAM						
SIGNAL SPACING	1900′	550′	3050′	850′	2800′	1500′ 1900′
LANE CONFIGURATION	2 2			2 2		

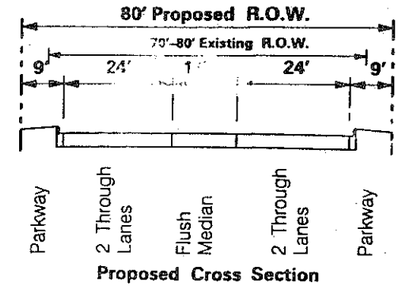
CROSS SECTIONS



Proposed Cross Section



Proposed Cross Section With Existing Frontage Roads



Proposed Cross Section

NOTES

-INSTALL DIRECTIONAL SIGNING TO WOODSTOCK METRA STATION
-PROVIDE SIDEWALK BETWEEN US ROUTE 14 AND WARE RD
-PROVIDE SIGNAL INTERCONNECTION BETWEEN FRONTAGE ROAD AND US ROUTE 14, BETWEEN LAKE AVE AND McCONNELL AVE, AND BETWEEN COUNTRY CLUB RD, IRVING AVE, AND ILL ROUTE 120 (McHENRY AVE)
-INSTALL SIGNAL PRE-EMPTION
-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AT US ROUTE 14
-REPLACE CNW RR STRUCTURE
-PROVIDE SIGNALS AT FRONTAGE ROAD AND McCONNELL AVE AS WARRANTED
-INSTALL BUS STOPS, SHELTERS, AND TURNOUTS BETWEEN US ROUTE 14 AND SOUTHVIEW ST AND SOUTH OF LAKE AVE (APPROXIMATELY ¼ MILE INTERVALS)
-RELOCATE PRIVATE ENTRANCE TO McCONNELL AVE

Exhibit ILL47-23b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
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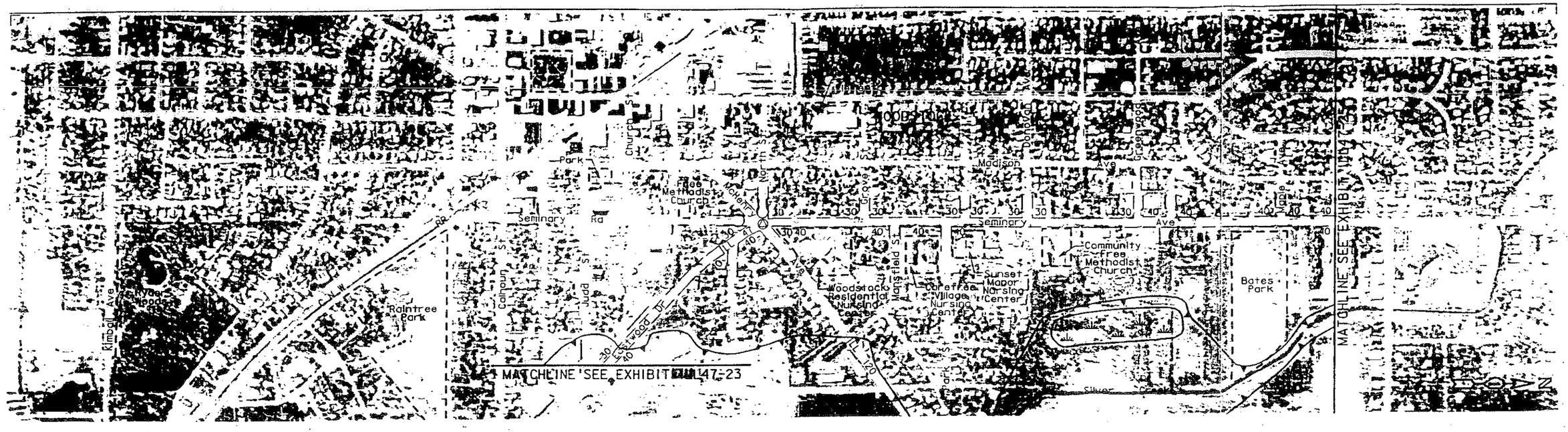

Exhibit ILL47–24a
Illinois Route 47 (Eastwood Drive / Seminary Avenue)

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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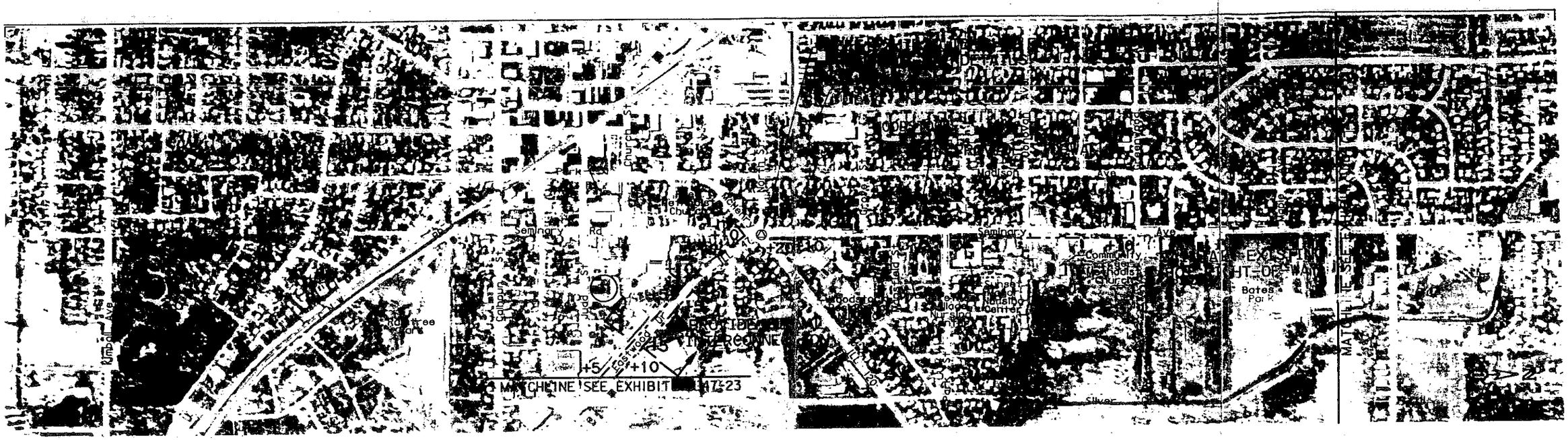
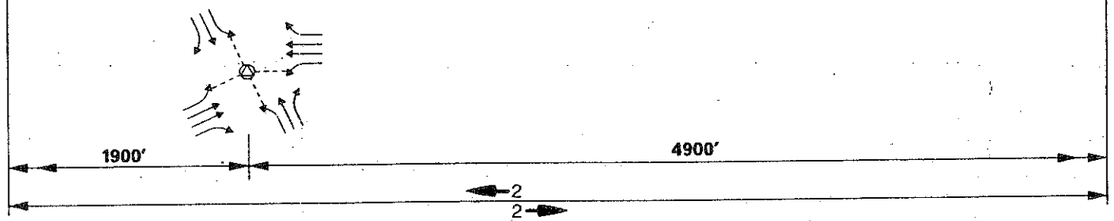


SEGMENT 11

ILL Route 120 & ILL Route 47
See Exhibit ID 11-2

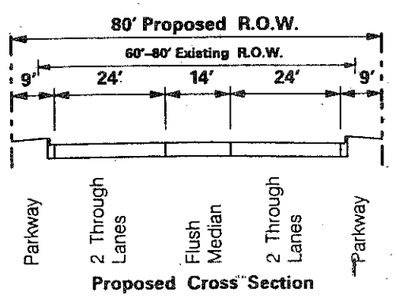
INTERSECTION DIAGRAM

SIGNAL SPACING



LANE CONFIGURATION

CROSS SECTIONS



(11)

Proposed Cross Section

NOTES

-INSTALL BUS STOPS, SHELTERS, AND TURNOUTS AT NORTH ST BETWEEN NORTH ST AND GROVE ST, BETWEEN MANSFIELD ST AND PARK ST, SOUTH OF DONOVAN AVE, SOUTH OF GREENWOOD AVE, AND NORTH OF MAPLE AVE (APPOXIMATELY ¼ MILE INTERVALS)
-INSTALL DIRECTIONAL SIGNING TO WOODSTOCK METRA STATION
-PROVIDE SIDEWALK BETWEEN US ROUTE 14 AND WARE RD
-PROVIDE SIGNAL INTERCONNECTION BETWEEN COUNTRY CLUB RD, IRVING AVE, AND ILL ROUTE 120 (McHENRY AVE)
-INSTALL SIGNAL PRE-EMPTION

Exhibit ILL47-24b
Illinois Route 47 (Eastwood Drive, Seminary Avenue)

PROPOSED IMPROVEMENTS

Legend SN Structure Number ⊂ Cul-De-Sac (A) New Signal (F) Flashing Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study
ILLINOIS DEPARTMENT OF TRANSPORTATION
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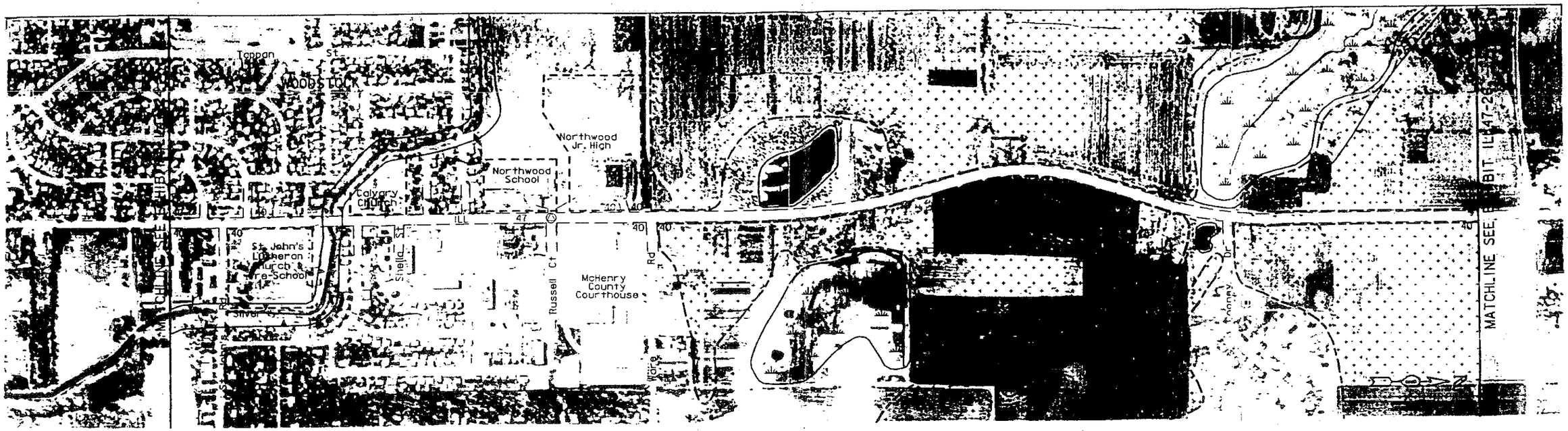

Exhibit ILL47–25a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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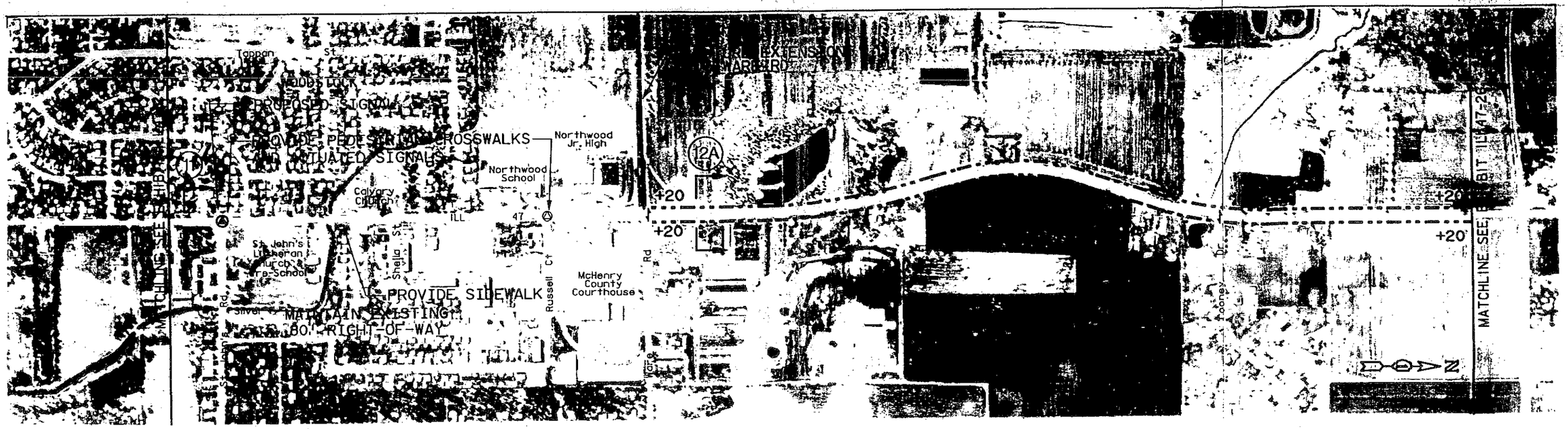
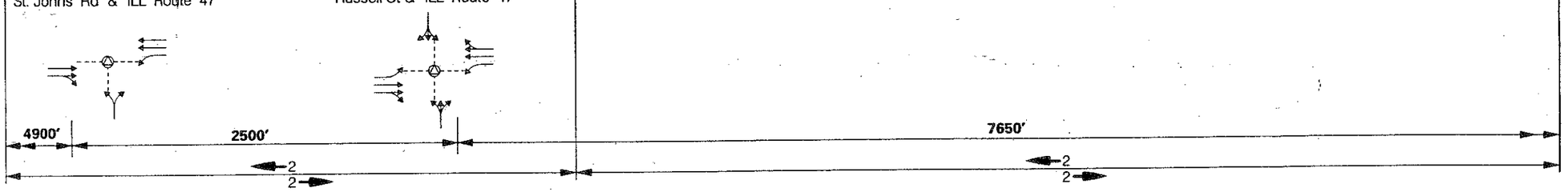


SEGMENT 11

SEGMENT 12

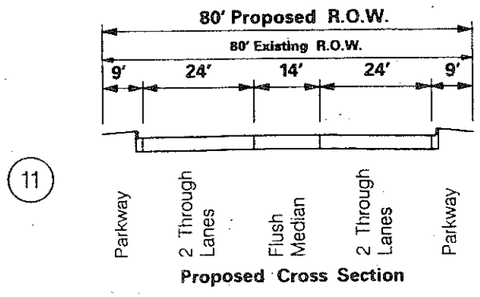
INTERSECTION DIAGRAM



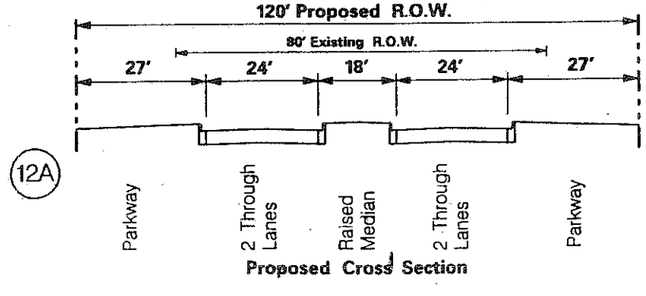
SIGNAL SPACING

LANE CONFIGURATION

CROSS SECTIONS



Proposed Cross Section



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING NORTH OF WARE RD
-INSTALL BUS STOPS, SHELTERS, AND TURNOUTS AT ST JOHNS'S RD, SHEILA ST AND SOUTH OF RUSSELL CT (APPROXIMATELY ¼ MILE INTERVALS)

-PROVIDE SIGNAL AT ST. JOHNS RD AS WARRANTED
-PROVIDE SIDEWALK BETWEEN US ROUTE 14 AND WARE RD
-PROVIDE PEDESTRIAN CROSSWALKS AND ACTUATED SIGNALS AT ST. JOHN'S RD AND RUSSELL CT
-INSTALL SIGNAL PRE-EMPTION

Exhibit ILL47-25b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend

SN Structure Number
Existing Structure
Cul-De-Sac
+20 Additional Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

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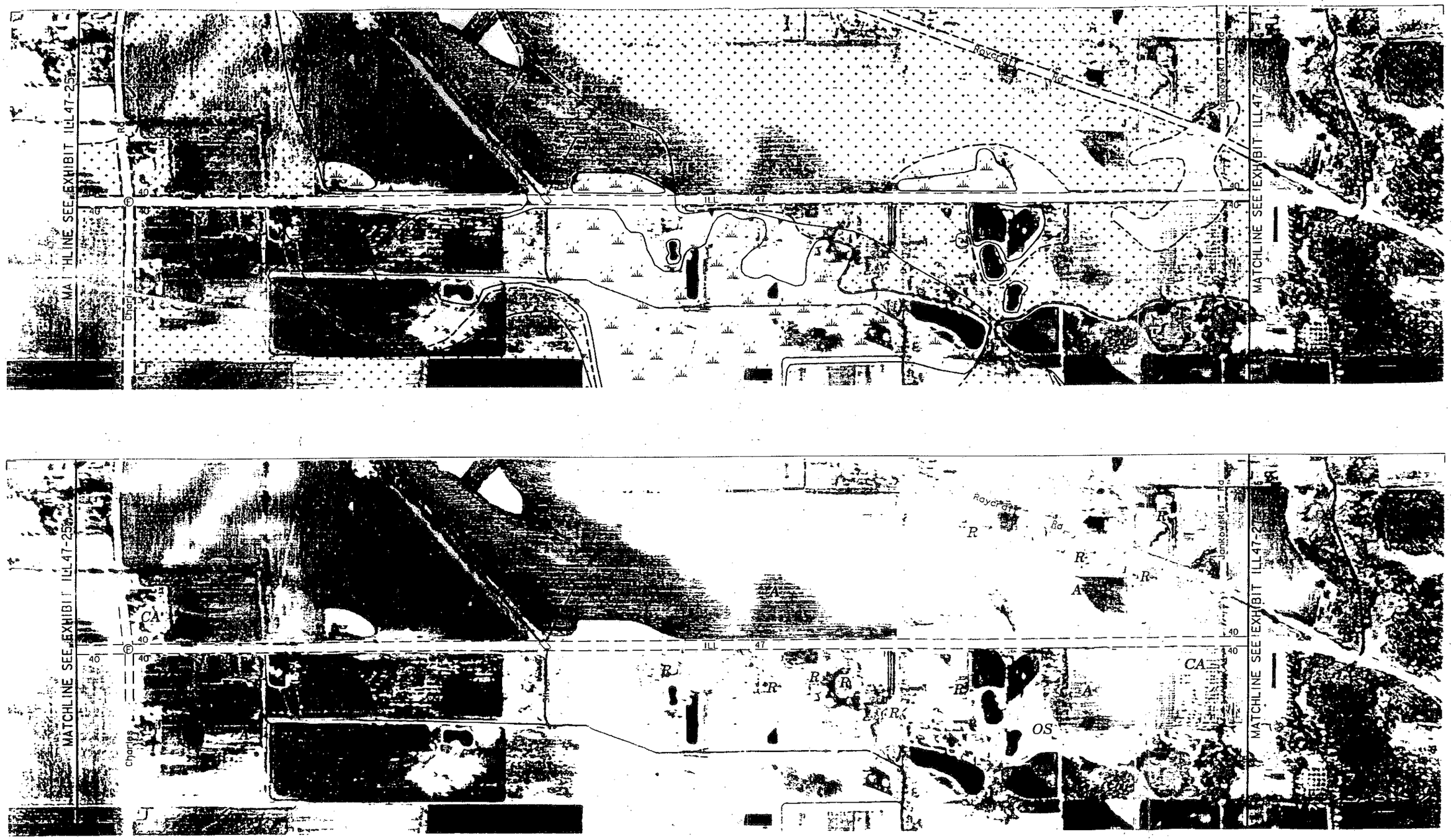

Exhibit ILL47–26a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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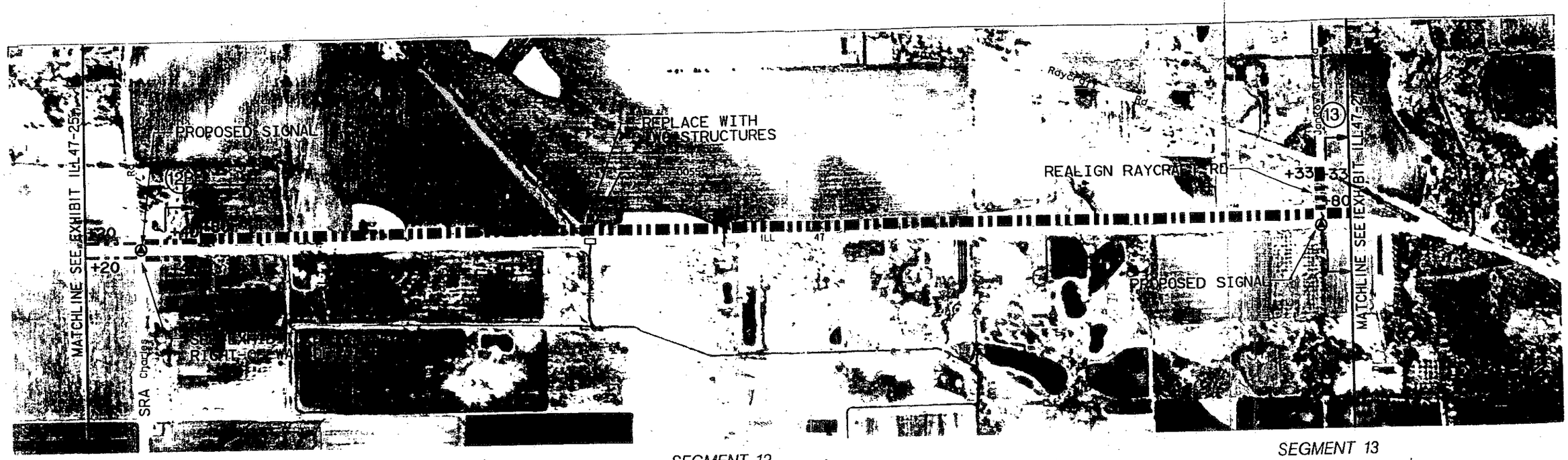


SEGMENT 12

SEGMENT 13

INTERSECTION DIAGRAM

Charles Rd & ILL Route 47
See Exhibit ID 12-1

Raycraft Rd & ILL Route 47

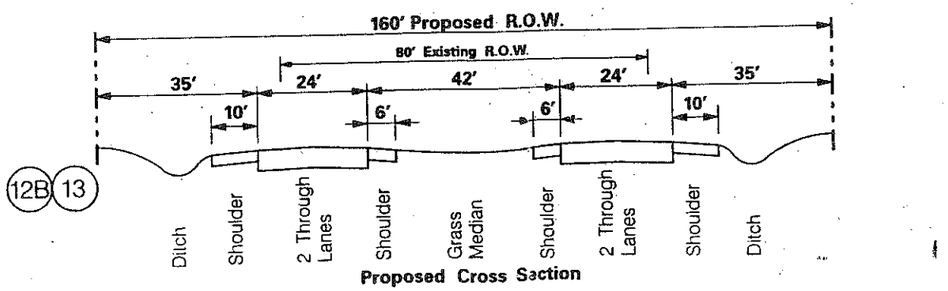
SIGNAL SPACING

7650′ | 9150′ | 30,100′

LANE CONFIGURATION

2 | 2 | 2 | 2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-REPLACE EXISTING STRUCTURE OVER SILVER CREEK WITH TWO STRUCTURES

-PROVIDE SIGNALS AT CHARLES RD AND RAYCRAFT RD AS WARRANTED
-REALIGN RAYCRAFT RD TO FORM 90 DEGREE INTERSECTION WITH ILL ROUTE 47

Exhibit ILL47-26b
Illinois Route 47

PROPOSED IMPROVEMENTS

Cut Do Sec | New Signal | Flashing Signal | Scale In Feet

SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION

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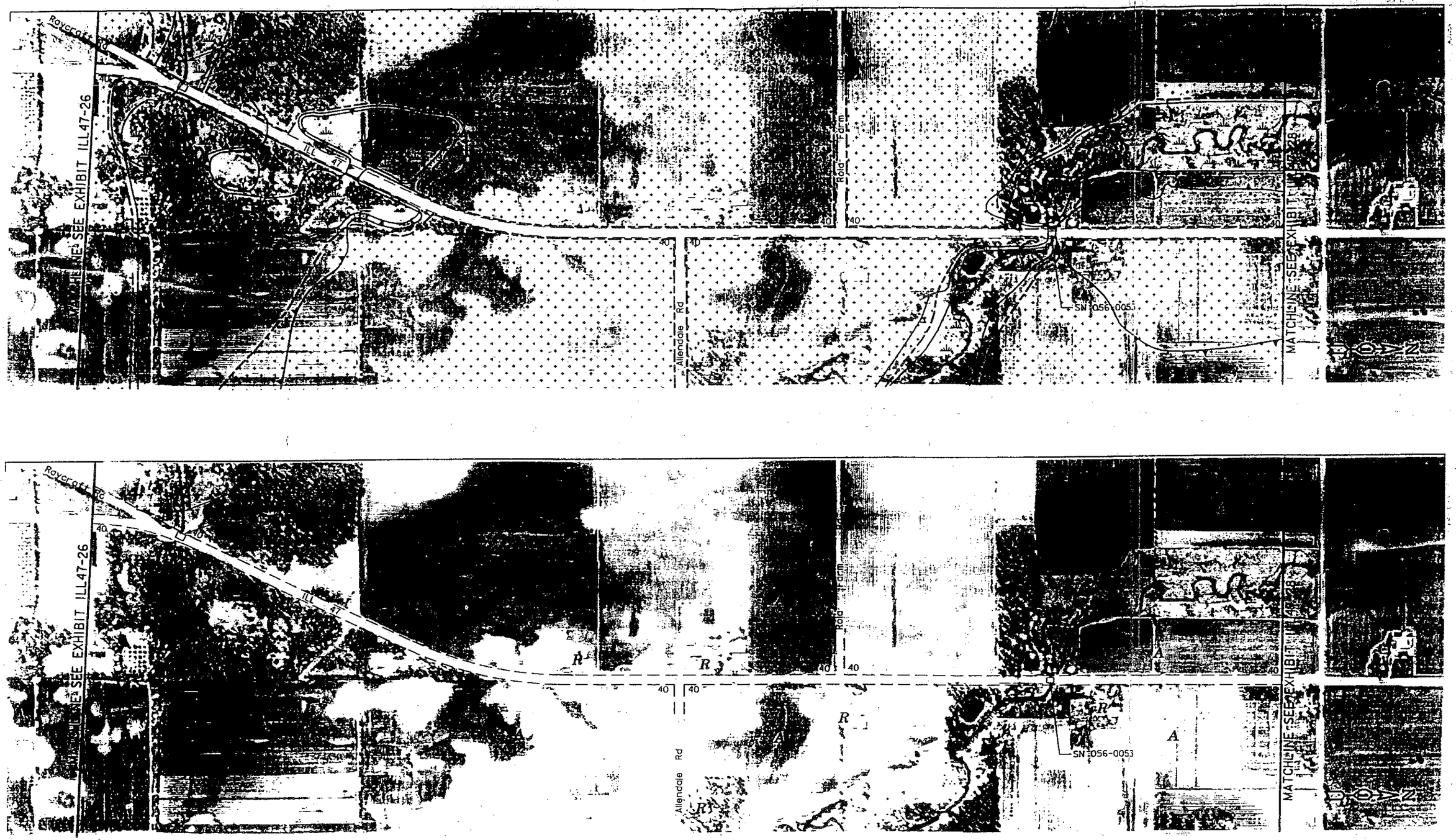

Exhibit ILL47-27a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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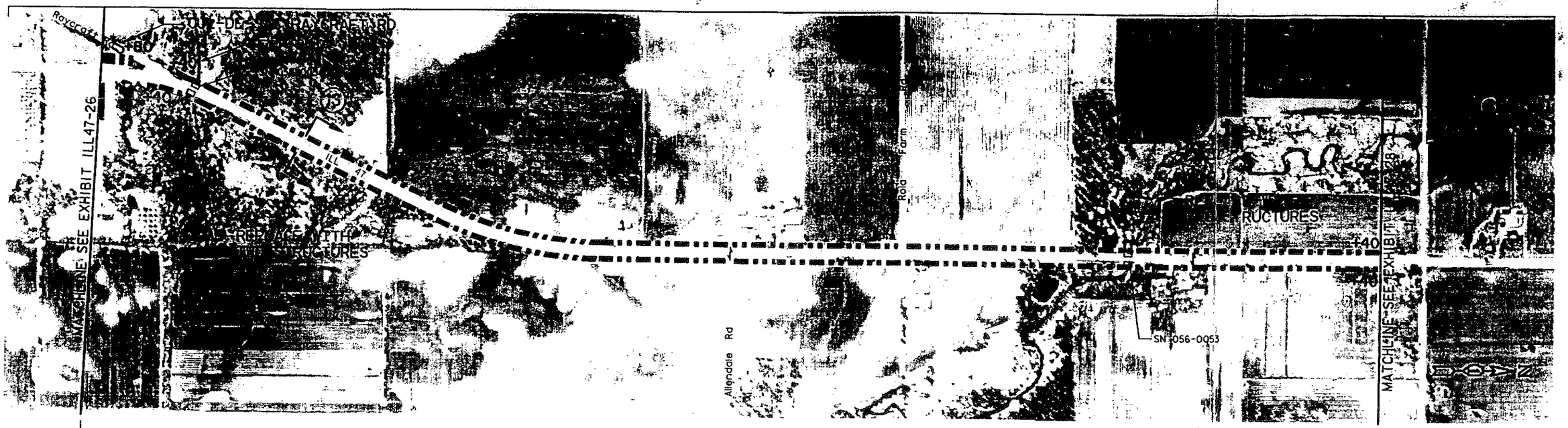


SEGMENT 13

INTERSECTION DIAGRAM

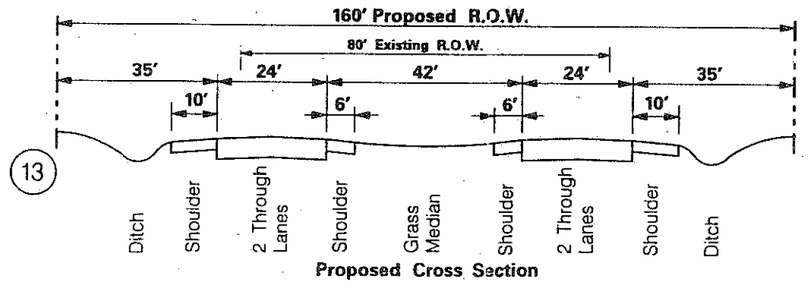
SIGNAL SPACING

30,100'

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING

-REPLACE EXISTING STRUCTURES OVER SLOUGH CREEK AND NIPPERSINK CREEK WITH TWO STRUCTURES EACH
-PROVIDE MEDIAN BREAKS AT ALLENDALE RD AND HALFWAY BETWEEN ALLENDALE RD AND THAYER RD

Exhibit ILL47-27b
Illinois Route 47

PROPOSED IMPROVEMENTS

ILL47-31b

Legend

SN	Structure Number	⊂	Cul-De-Sac	(A) New Signal	(F) Flashing Signal
	Existing Structure	+20	Additional Right-Of-Way	(A) Existing Signal	(R) Remove Signal
	Median Break		Proposed Right-Of-Way		

Scale In Feet
0 200 400 800 1200

SRA Strategic Regional Arterial Planning Study

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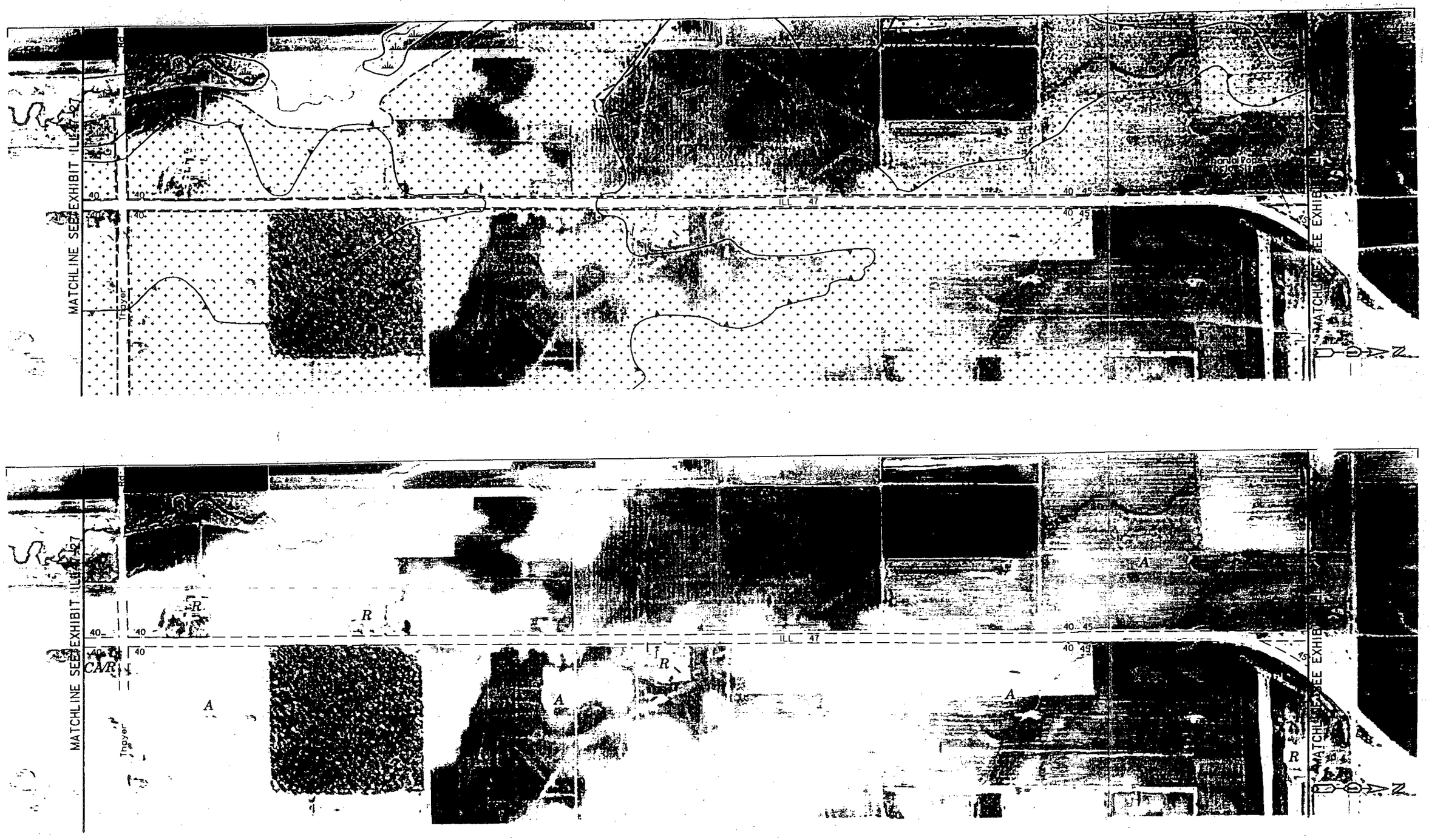

Exhibit ILL47-28a
Illinois Route 47

EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

Scale In Feet
0 200 400 800 1200

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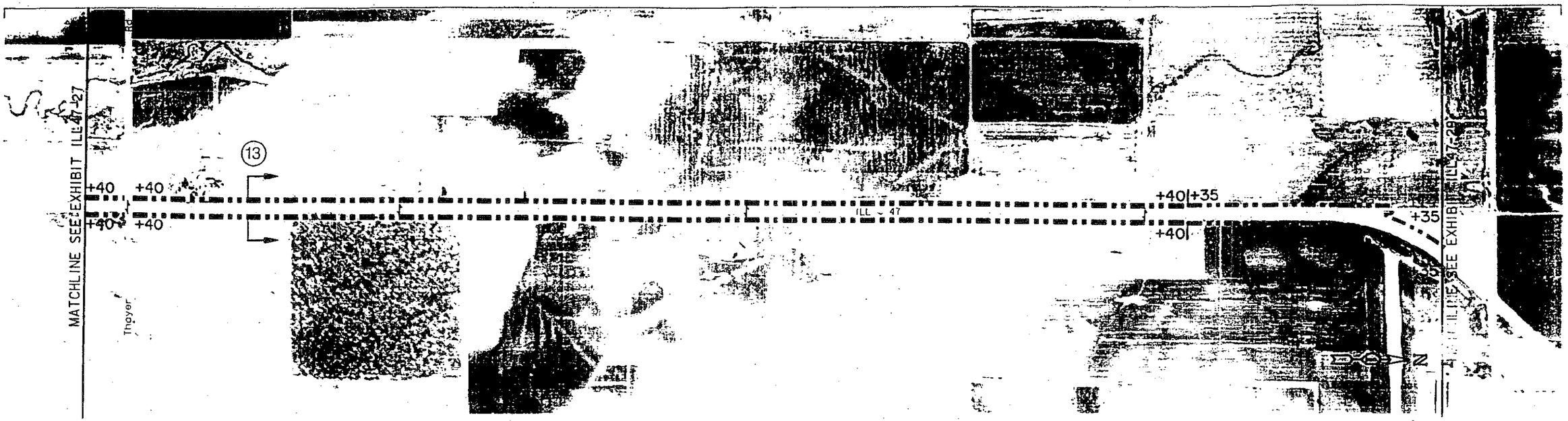
ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 13

INTERSECTION DIAGRAM

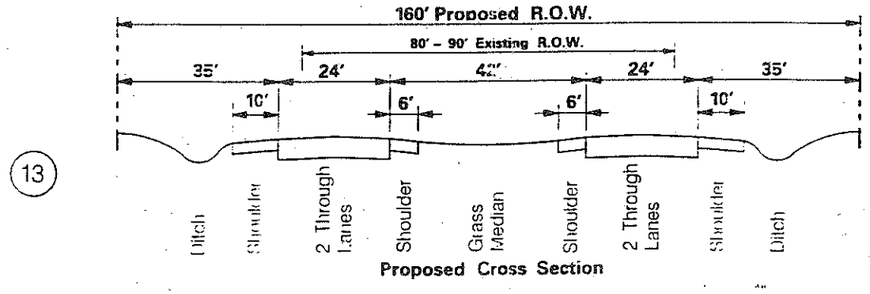
SIGNAL SPACING

30,100'

LANE CONFIGURATION

2
2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS AND TURNOUTS AT 5 MILE SPACING

-PROVIDE MEDIAN BREAKS AT THAYER RD AND AT ½ MILE SPACING BETWEEN THAYER RD AND VANDER KARR RD

Exhibit ILL47-28b
Illinois Route 47

PROPOSED IMPROVEMENTS

ILL 47-32b

Legend

SN Structure Number
Existing Structure
Median Break
Cul-De-Sac
+20 Additional Right-Of-Way
Proposed Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

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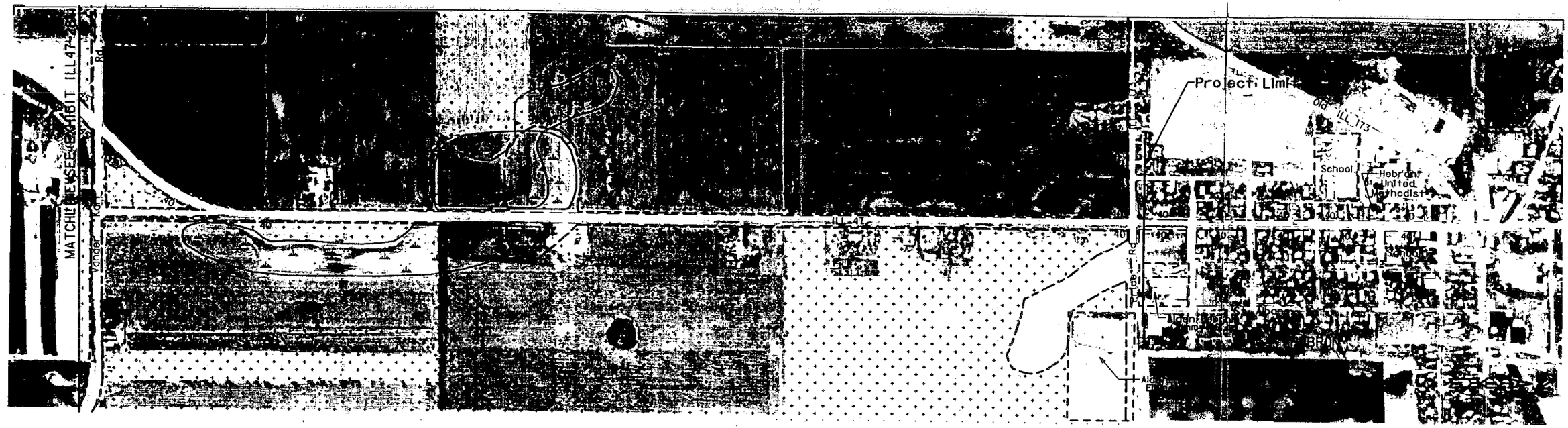
Drwn JTS Date 5/95 Chkd SAW Date 5/95



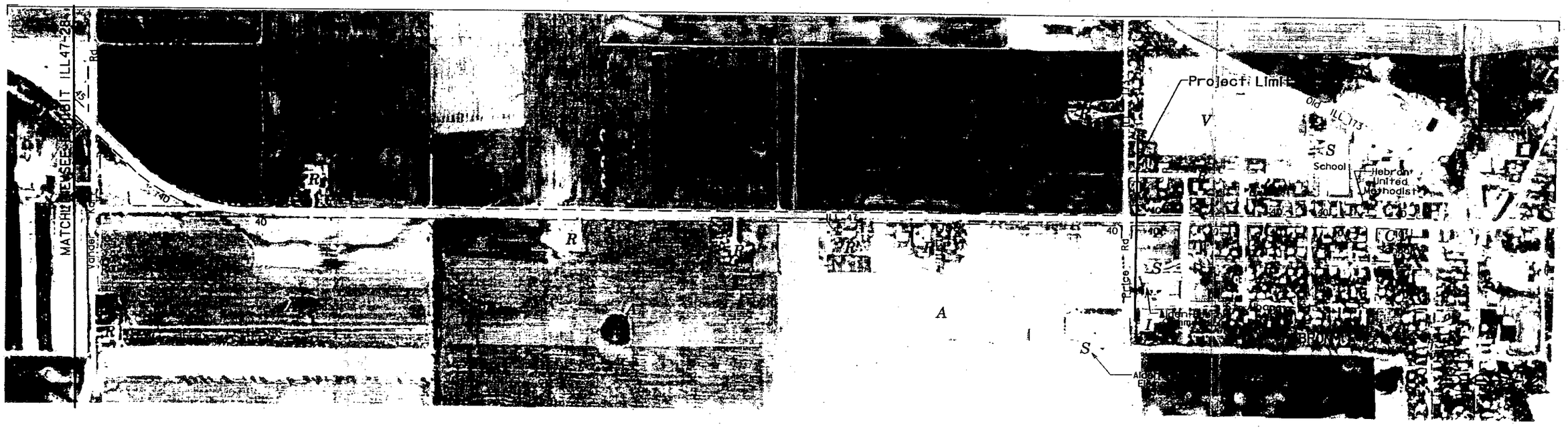


Exhibit ILL47-29a
Illinois Route 47

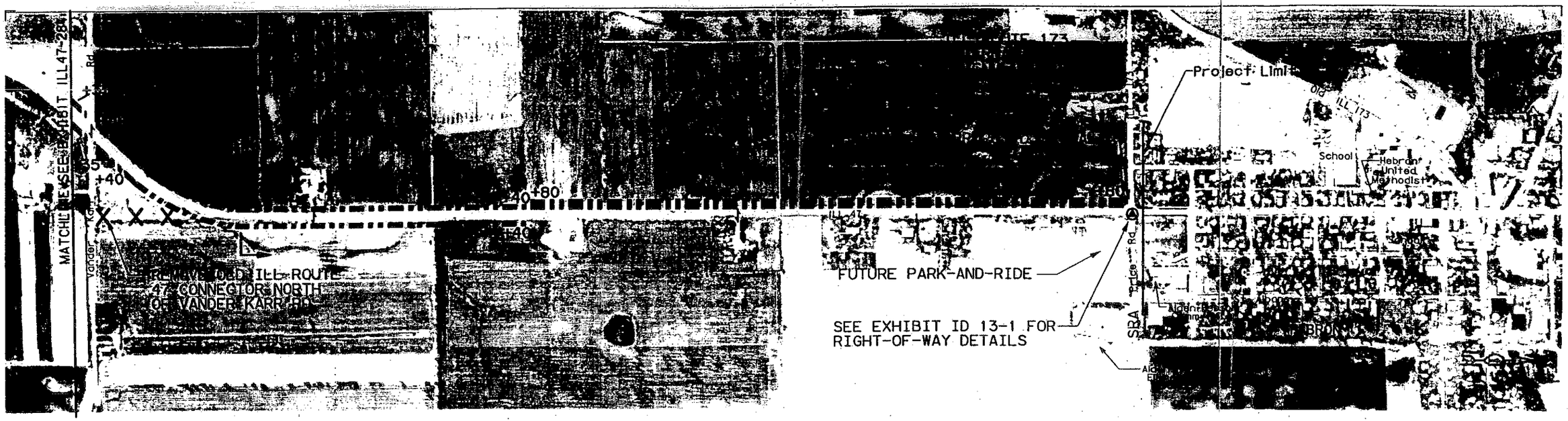
EXISTING CONDITIONS / ENVIRONMENTAL / LAND USE

ILL 47-33a

Scale In Feet
0 200 400 800 1200

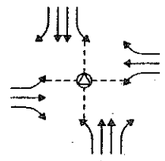
SRA Strategic Regional Arterial Planning Study

ILLINOIS DEPARTMENT OF TRANSPORTATION
MERIDIAN ENGINEERS & PLANNERS, INC.



SEGMENT 13

ILL Route 173 & ILL Route 47
See Exhibit ID 13-1

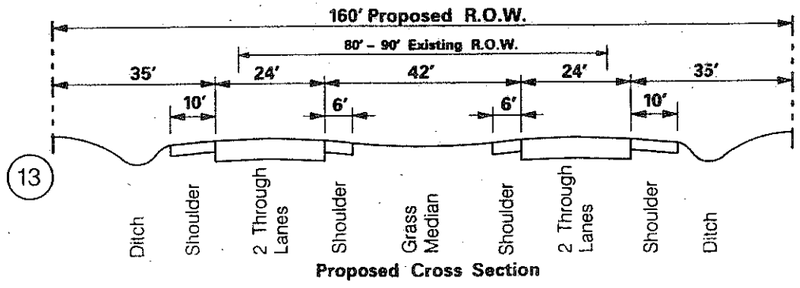


INTERSECTION DIAGRAM

SIGNAL SPACING 30,100'

LANE CONFIGURATION 2 / 2

CROSS SECTIONS



Proposed Cross Section

NOTES

-RESERVE SPACE FOR FUTURE BUS STOPS, SHELTERS, AND TURNOUTS AT 5 MILE SPACING
-RESERVE SPACE FOR FUTURE PARK-AND-RIDE AT ILL ROUTE 173
-PROVIDE MEDIAN BREAKS AT VANDER KARR RD AND AT ½ MILE SPACING BETWEEN VANDER KARR RD AND PRICE RD
-REALIGN ILL ROUTE 173 TO PRICE RD
-DEAD END OLD ILL ROUTE 47 CONNECTOR NORTH OF VANDER KARR RD
-PROVIDE SIGNAL AT ILL ROUTE 173 AS WARRANTED

Exhibit ILL47-29b
Illinois Route 47

PROPOSED IMPROVEMENTS

Legend
SN Structure Number
Existing Structure
Cul-De-Sac
+20 Additional Right-Of-Way
New Signal
Existing Signal
Flashing Signal
Remove Signal

Scale In Feet
0 200 400 800 1200

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Drwn JTS Date 5/95 Chkd SAW Date 5/95