

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT FEDERAL-AID PROJECT

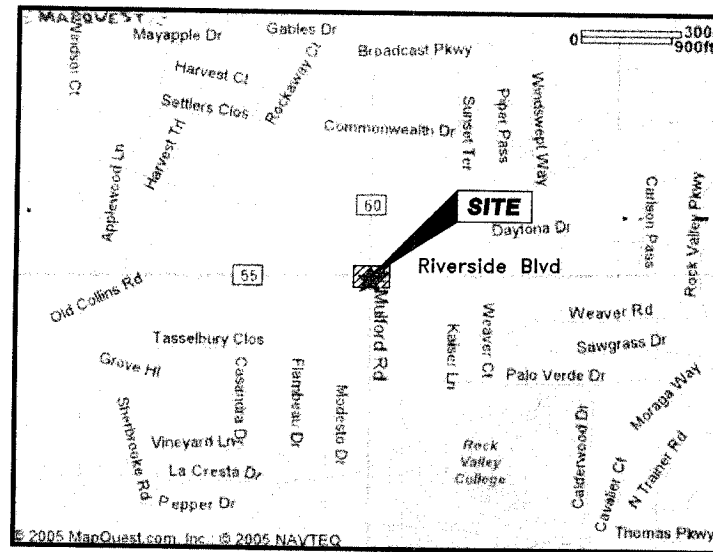
**FAP 525 (RIVERSIDE BLVD.)  
SECTION 03-00334-00-SP  
PROJECT NO. HS-525 (105)  
JOB NO. C-92-086-04  
CONTRACT NO. 85357**

**INDEX OF SHEETS**

- 1 COVER
- 2 GENERAL NOTES
- 3 QUANTITIES, DETAILS, AND WALL PROFILES
- 4 TYPICAL SECTIONS
- 5 COMPREHENSIVE SITE PLAN
- 6 PLAN AND PROFILE - MULFORD ROAD
- 7 PLAN AND PROFILE - RIVERSIDE BLVD.
- 8 EROSION & SEDIMENT CONTROL PLAN
- 9 CROSS SECTIONS - MULFORD ROAD
- 10 CROSS SECTIONS - RIVERSIDE BLVD.
- 11 LANDSCAPING, STRIPING, AND SIGNAGE
- 12 TRAFFIC SIGNAL INSTALLATION PLAN
- 13 CABLE PLAN & SIGNAL QUANTITIES

**STATE STANDARD DRAWINGS**

- 000001-04 Standard Symbols, Abbreviations and Patterns
- 280001-02 Temporary Erosion Control System
- 420001-04 Pavement Joints
- 420101-02 Jointed PCC Pavement
- 602401 Manhole Type A
- 602601 Precast Reinforced Flat Slab Top
- 604001-02 Frames and Lids Type 1
- 606001-02 Concrete Curb and Combination Concrete Curb and Gutter
- 606301-02 PC Concrete Islands and Medians
- 641006 Sight Screen Wood Plank Fence Type P
- 701601-04 Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
- 701606-04 Urban Lane Closure, Multilane, 1W or 2W with Mountable Median
- 701701-04 Urban Lane Closure, Multilane Intersection
- 702001-05 Traffic Control Devices
- 720001 Sign Panel Mounting Details
- 720006 Sign Panel Erection Details
- 780001-01 Typical Pavement Markings
- 781001-02 Typical Applications Raised Reflective Pavement Markers
- 814001 Concrete Handholes
- 814006 Double Handholes
- 877001-02 Steel Combination Mast Arm Assembly and Pole
- 878001-03 Concrete Foundation Details
- 880006 Traffic Signal Mounting Details
- 857001 Standard Phase Designation Diagrams and Phase Sequences
- 805001 Electrical Service Installation Details
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 701801-03 LANE CLOSURE MULTI-LANE 1W OR 2W CROSSWALKS OR SIDEWALK CLOSURE
- 353001-02 PCC BASE COURSE WITH BITUMINOUS CONCRETE BINDER AND SURFACE COURSES



**PROJECT LOCATION MAP**

**ENGINEER:**

**ARC  
DESIGN  
RESOURCES  
INC.**  
CIVIL ENGINEER  
LAND SURVEYING

1475 S. PERRYVILLE ROAD  
ROCKFORD, ILLINOIS 61108  
VOICE: (815) 484-4300  
FAX: (815) 484-4303  
www.arcdesign.com  
Design Firm License No.  
184-001334



**UTILITY OFFICIALS**

**GAS:**  
SCOTT PUFFER  
NICOR GAS COMPANY  
300 W. TERRA COTTA AVENUE  
CRYSTAL LAKE, IL 60014  
(815) 455-0271 ph.  
(815) 455-4688 fax

**ELECTRIC:**  
LARRY MEYERS  
COMMONWEALTH EDISON COMPANY  
123 ENERGY AVENUE  
ROCKFORD, IL 61109  
(815) 490-2257

**TELEPHONE:**  
STEVEN JONES  
SBC  
2404 8TH AVE  
ROCKFORD, IL 61108  
(815) 394-7270

**WATER:**  
JOHN MARTIN  
CITY OF ROCKFORD PUBLIC WORKS  
425 E. STATE STREET  
ROCKFORD, IL 61104  
(815) 961-3766

**CABLE TELEVISION:**  
LORI BORDER  
INSIGHT COMMUNICATIONS  
811 21ST STREET  
ROCKFORD, IL 61101  
(815) 987-4510

**SEWER:**  
MIKE OLSON  
ROCK RIVER WATER RECLAMATION DISTRICT  
3333 KISHWAUKEE STREET  
ROCKFORD, IL 61109  
(815) 397-7660



NET LENGTH: 1583 FEET (0.300 MILES)  
ADT: MULFORD ROAD - VAR 21,700 TO 24,400  
RIVERSIDE BLVD - VAR 16,600 TO 19,200  
URBAN MINOR ARTERIAL



CALL J.U.L.I.E. BEFORE YOU DIG  
1-800-892-0123  
TOLL FREE

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

APPROVED June 2, 2005  
*[Signature]* LOCAL AGENCY OFFICIAL

PASSED June 6, 2005  
*[Signature]* DISTRICT ENGINEER OF LOCAL ROADS

APPROVED June 6, 2005  
*[Signature]* REGIONAL ENGINEER

ARC PROJECT NO. 04227







**DESIGN RESOURCES INC.**  
**CIVIL ENGINEERING AND LAND SURVEYING**  
 1475 S. PERRYVILLE ROAD  
 ROCKFORD, ILLINOIS 61108  
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 (815) 484-4303 FAX

**PROJECT NAME**  
**OWNER'S NAME**  
**MULFORD RD./ RIVERSIDE BLVD INTERSECTION**  
**03-00334-00-8P**  
 WINNEBAGO COUNTY  
 HIGHWAY DEPARTMENT  
 424 N SPRINGFIELD AVENUE  
 ROCKFORD, IL 61101  
 (815) 965-9431  
**CONSULTANTS**

**SEAL / SIGNATURE**

ISSUED FOR	DATE
AGENCY REVIEW	03.04.05
AGENCY REVIEW	05.23.05

REVISIONS	NO.	ITEM	DATE

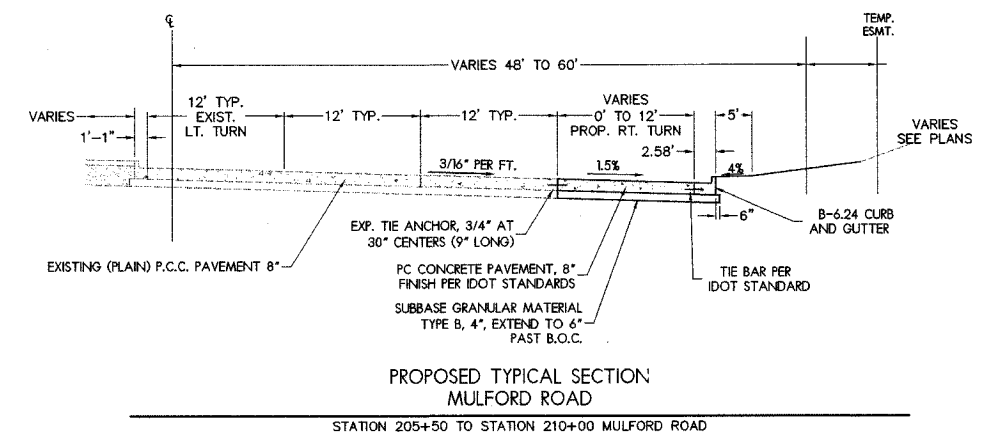
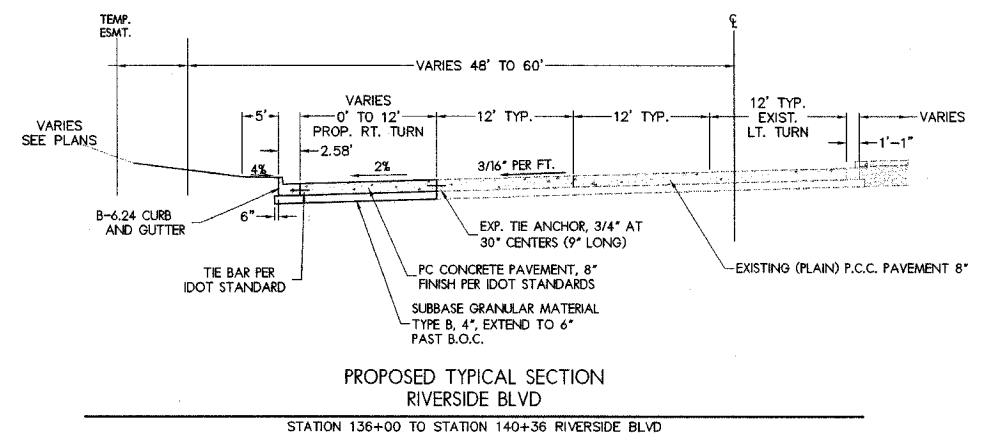
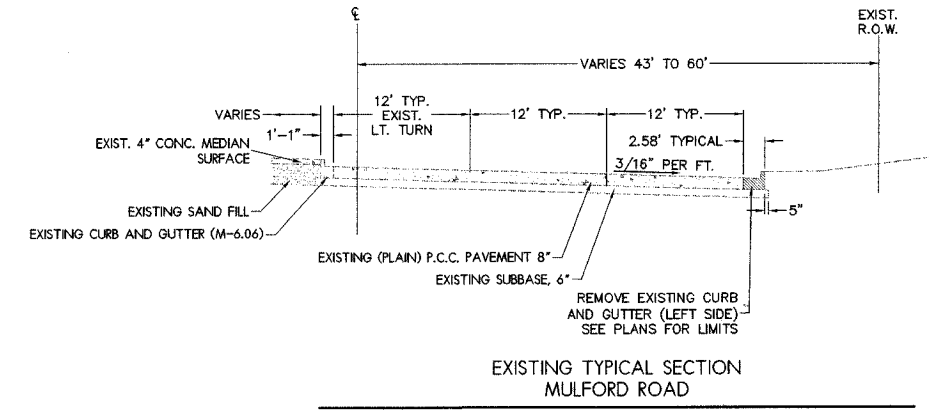
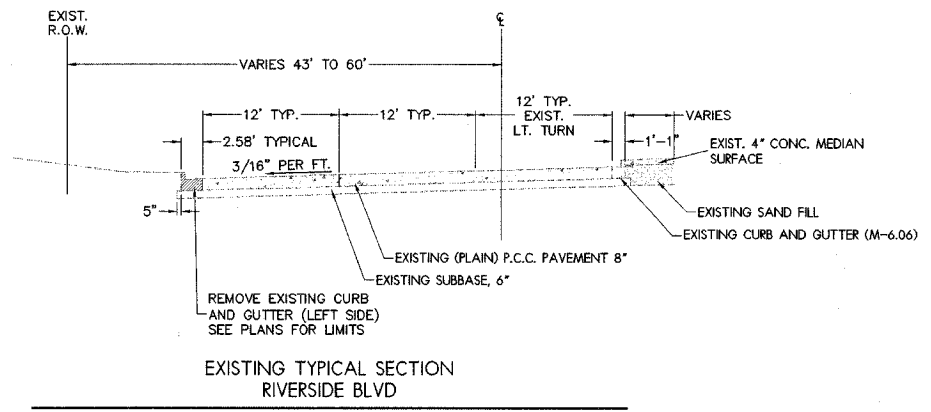
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**CHECKED** JTS

**PROJECT NUMBER**  
**04227**

**SHEET TITLE**

**TYPICAL SECTIONS**

**SHEET NUMBER**  
**4 of x**



**SUPERPAVE GRADATION TABLE**

USAGE	BINDER	SURFACE
PG:	PG 64-22	PG 64-22
RAPID (MAX)	2.5%	1.5%
DESIGN AIR VOIDS	4.2 @ NS0	4.2 @ NS0
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 19.0	IL 9.5 or 12.5
FRICTION AGG.	NA	D



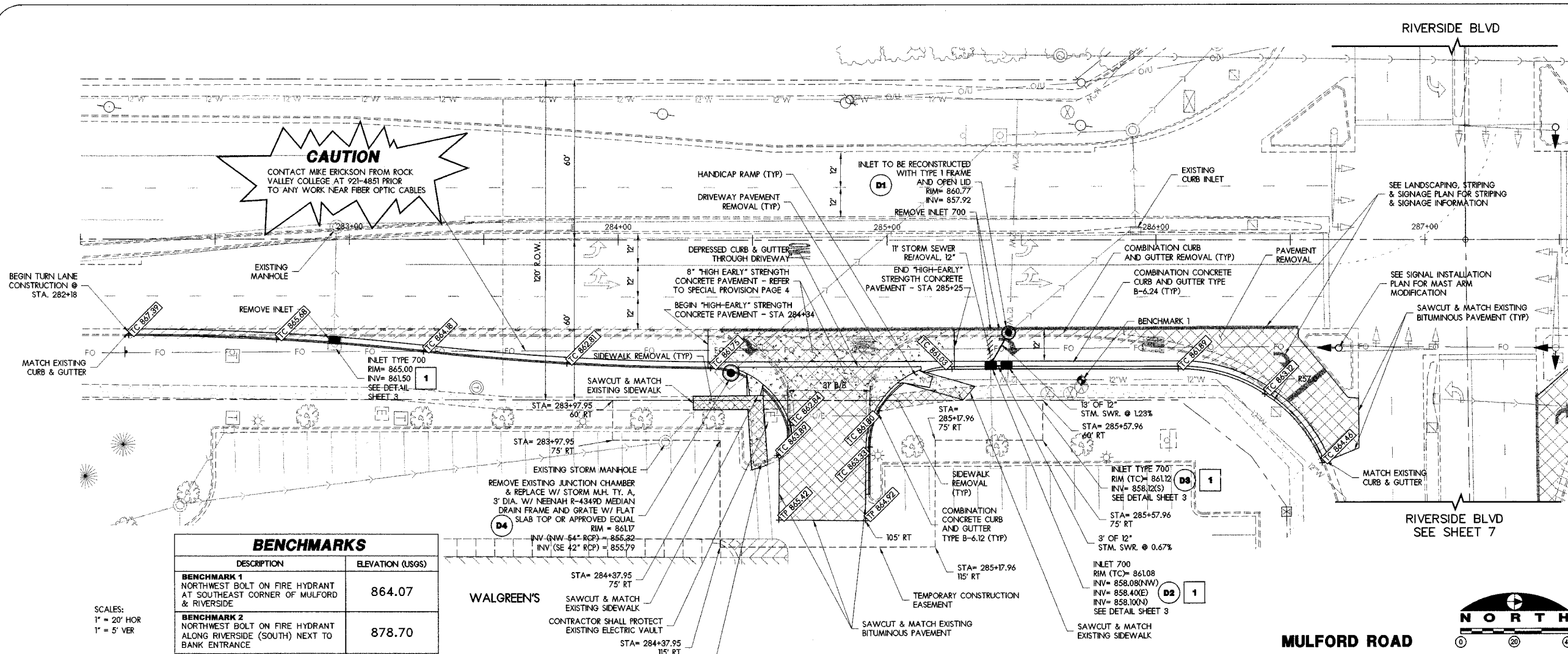
ISSUED FOR	DATE
AGENCY REVIEW	03.04.05
AGENCY REVIEW	05.03.05

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<b>CHECKED</b>	JTS
<b>PM</b>	MRR
<b>PROJECT NUMBER</b>	04227

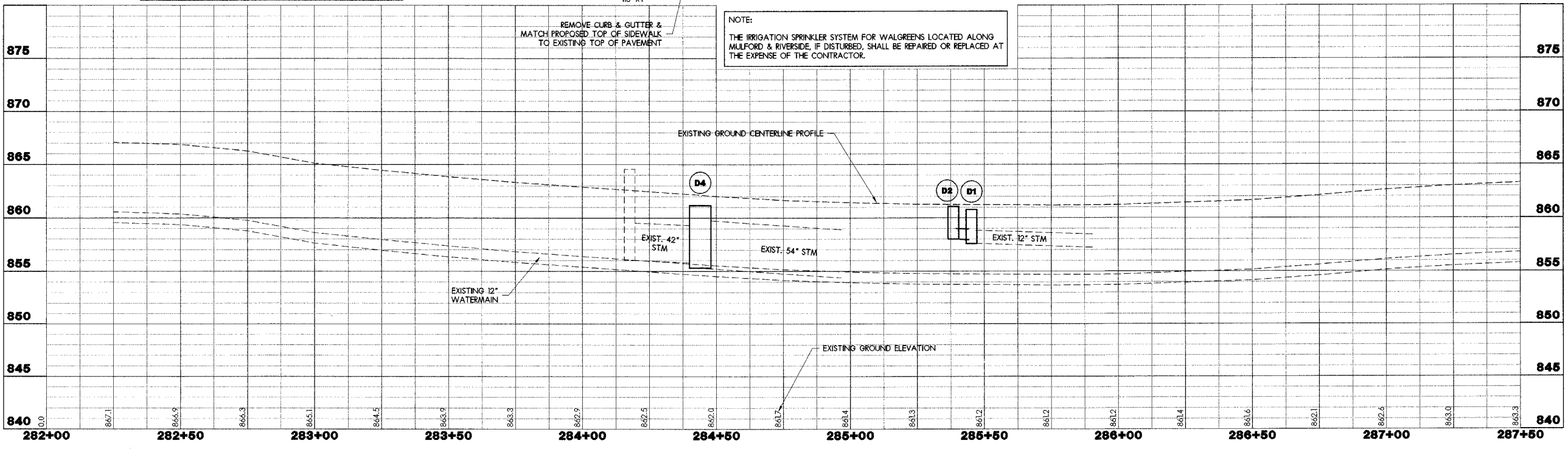
**SHEET TITLE**  
**PLAN**  
**AND**  
**PROFILE**

**MULFORD ROAD**  
**STATION 282+00 TO**  
**STATION 287+50**  
**SHEET NUMBER**

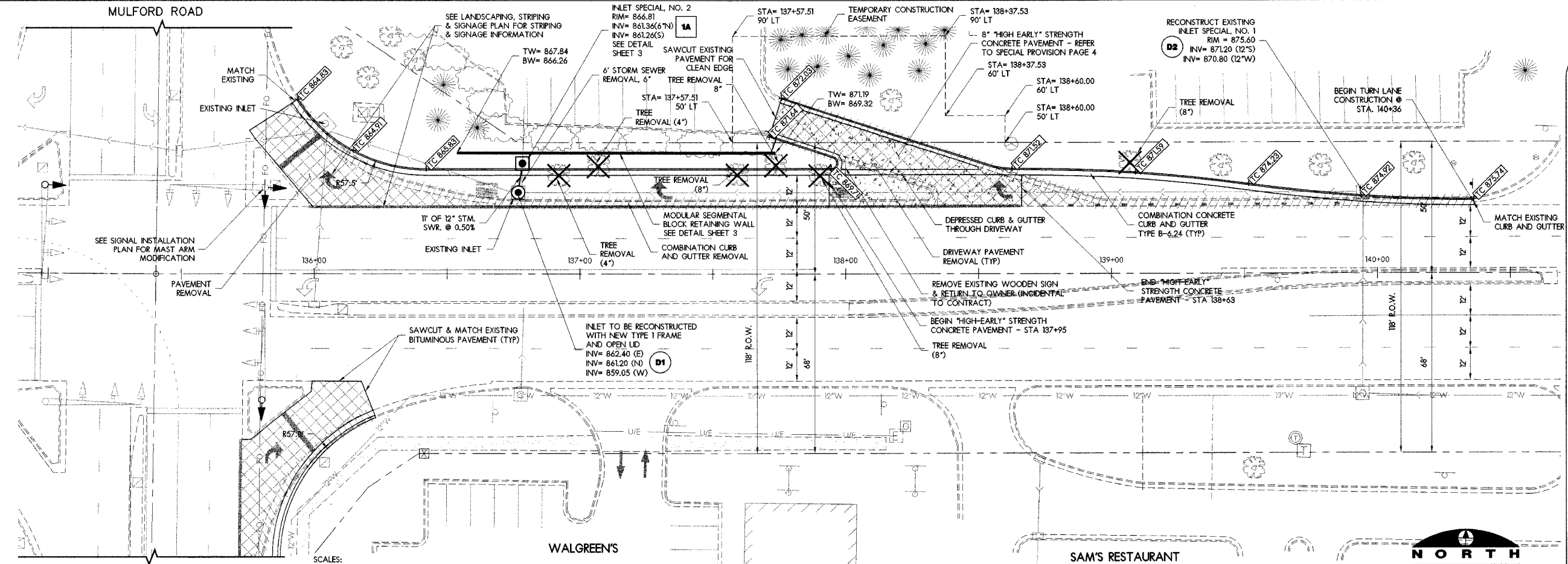


BENCHMARKS	
DESCRIPTION	ELEVATION (USGS)
<b>BENCHMARK 1</b> NORTHWEST BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF MULFORD & RIVERSIDE	864.07
<b>BENCHMARK 2</b> NORTHWEST BOLT ON FIRE HYDRANT ALONG RIVERSIDE (SOUTH) NEXT TO BANK ENTRANCE	878.70

SCALES:  
1" = 20' HOR  
1" = 5' VER



**NOTE:**  
THE IRRIGATION SPRINKLER SYSTEM FOR WALGREENS LOCATED ALONG  
MULFORD & RIVERSIDE, IF DISTURBED, SHALL BE REPAIRED OR REPLACED AT  
THE EXPENSE OF THE CONTRACTOR.

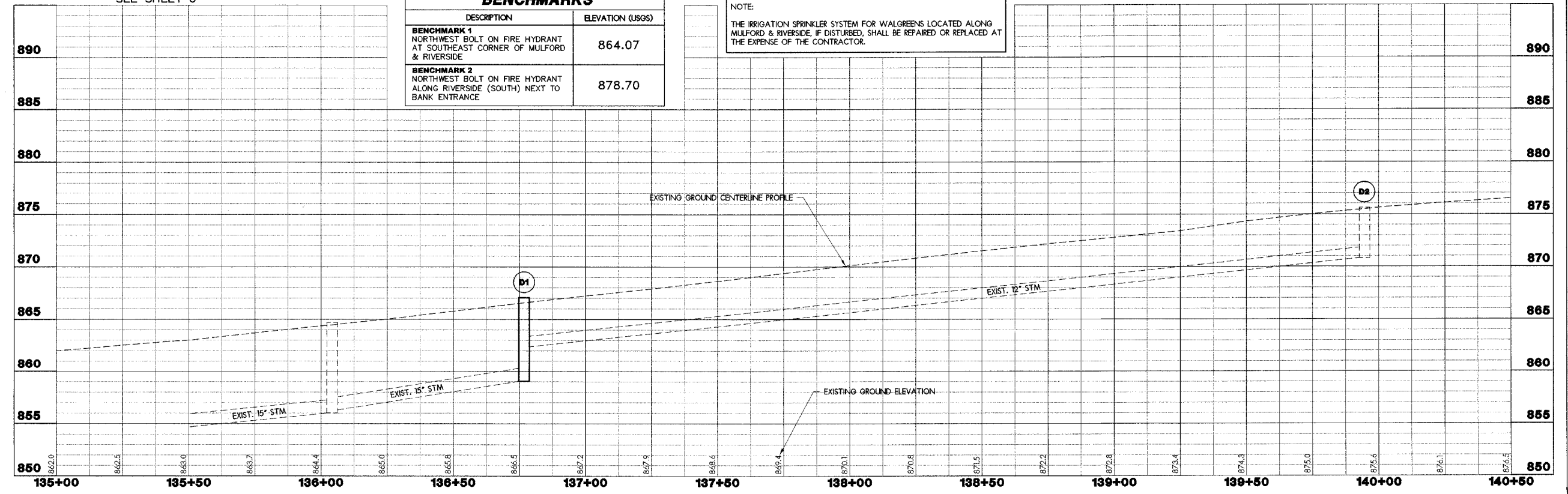


MULFORD ROAD  
SEE SHEET 6

SCALES:  
1" = 20' HOR  
1" = 5' VER

BENCHMARKS	
DESCRIPTION	ELEVATION (USGS)
<b>BENCHMARK 1</b> NORTHWEST BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF MULFORD & RIVERSIDE	864.07
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 1475 S. PERRYVILLE ROAD  
 ROCKFORD, ILLINOIS 61108  
 (815) 484-4300  
 (815) 484-4303 FAX

**PROJECT NAME**  
**MULFORD RD./ RIVERSIDE BLVD INTERSECTION**  
**03-00334-00-SP**  
 WINNEBAGO COUNTY  
 HIGHWAY DEPARTMENT  
 424 N SPRINGFIELD AVENUE  
 ROCKFORD, IL 61101  
 (815) 965-9431  
**CONSULTANTS**

**SEAL / SIGNATURE**

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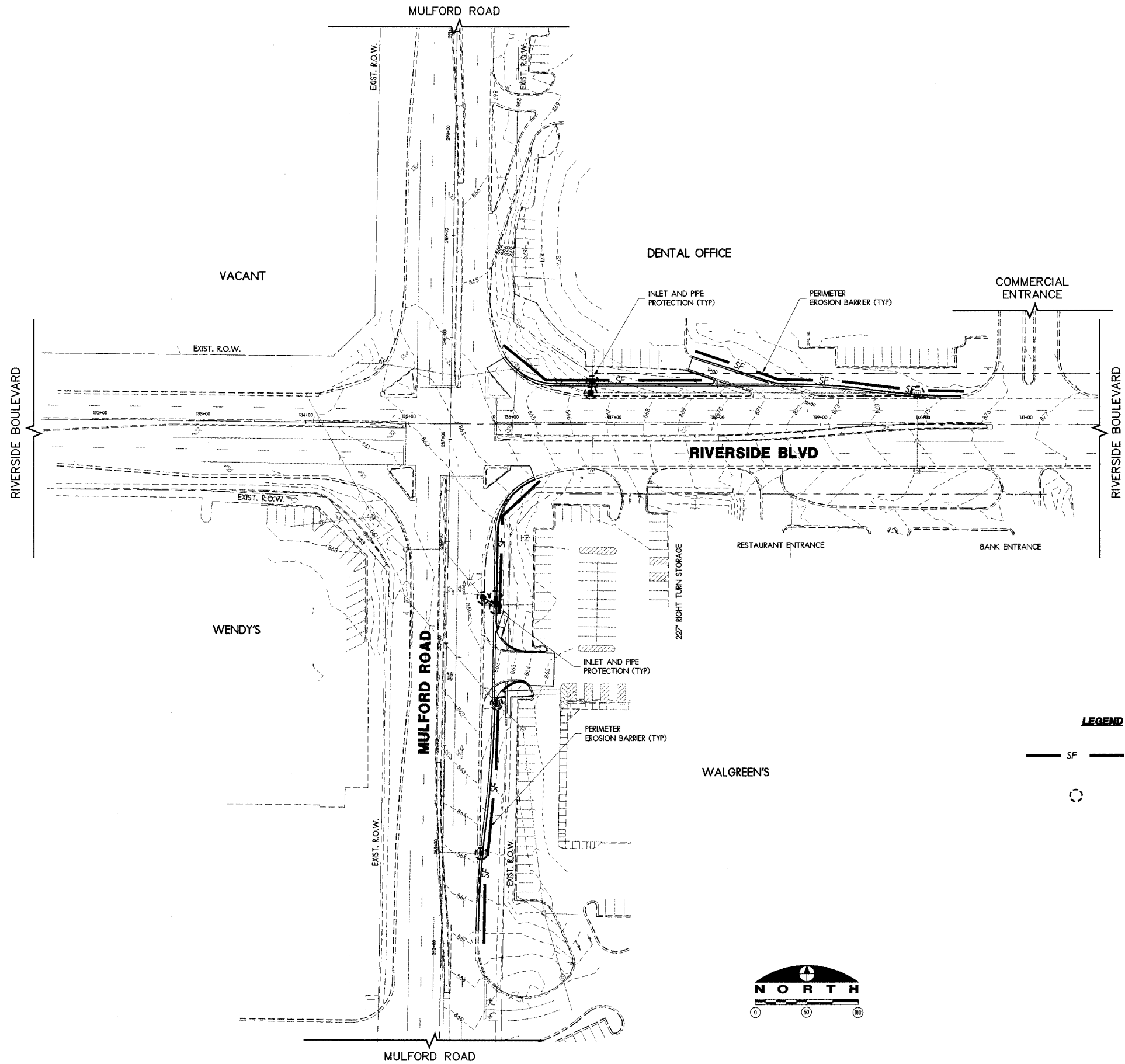
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**CHECKED** JTS

**PROJECT NUMBER**  
**04227**

**SHEET TITLE**  
**EROSION & SEDIMENT CONTROL PLAN**

**SHEET NUMBER**  
**8 of X**







CIVIL ENGINEERING  
LAND SURVEYING

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Design Firm License No. 184-001334

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OWNER'S NAME

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RIVERSIDE BLVD  
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03-00334-00-SP

WINNEBAGO COUNTY  
HIGHWAY DEPARTMENT  
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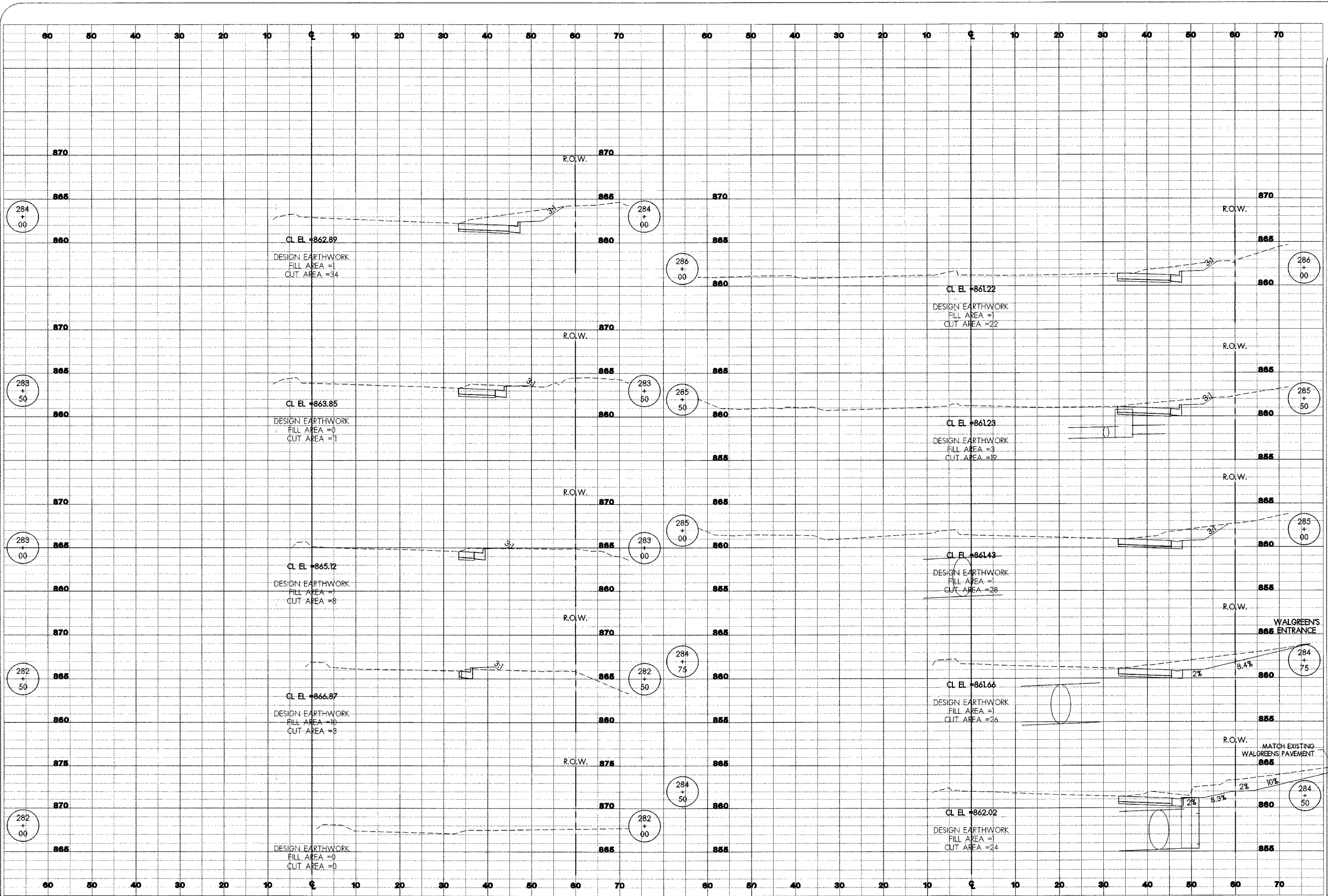
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CHECKED JTS  
PM MRR

PROJECT NUMBER  
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SHEET TITLE  
**CROSS  
SECTIONS**

MULFORD ROAD  
STATION 282+00 TO  
STATION 286+00  
SHEET NUMBER



COPYRIGHT 2003  
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LAND SURVEYING  
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Design Firm License No. 184-001834

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OWNER'S NAME  
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RIVERSIDE BLVD  
INTERSECTION**

WINNEBAGO COUNTY  
HIGHWAY DEPARTMENT  
424 N SPRINGFIELD AVENUE  
ROCKFORD, IL 61101  
(815) 965-9431

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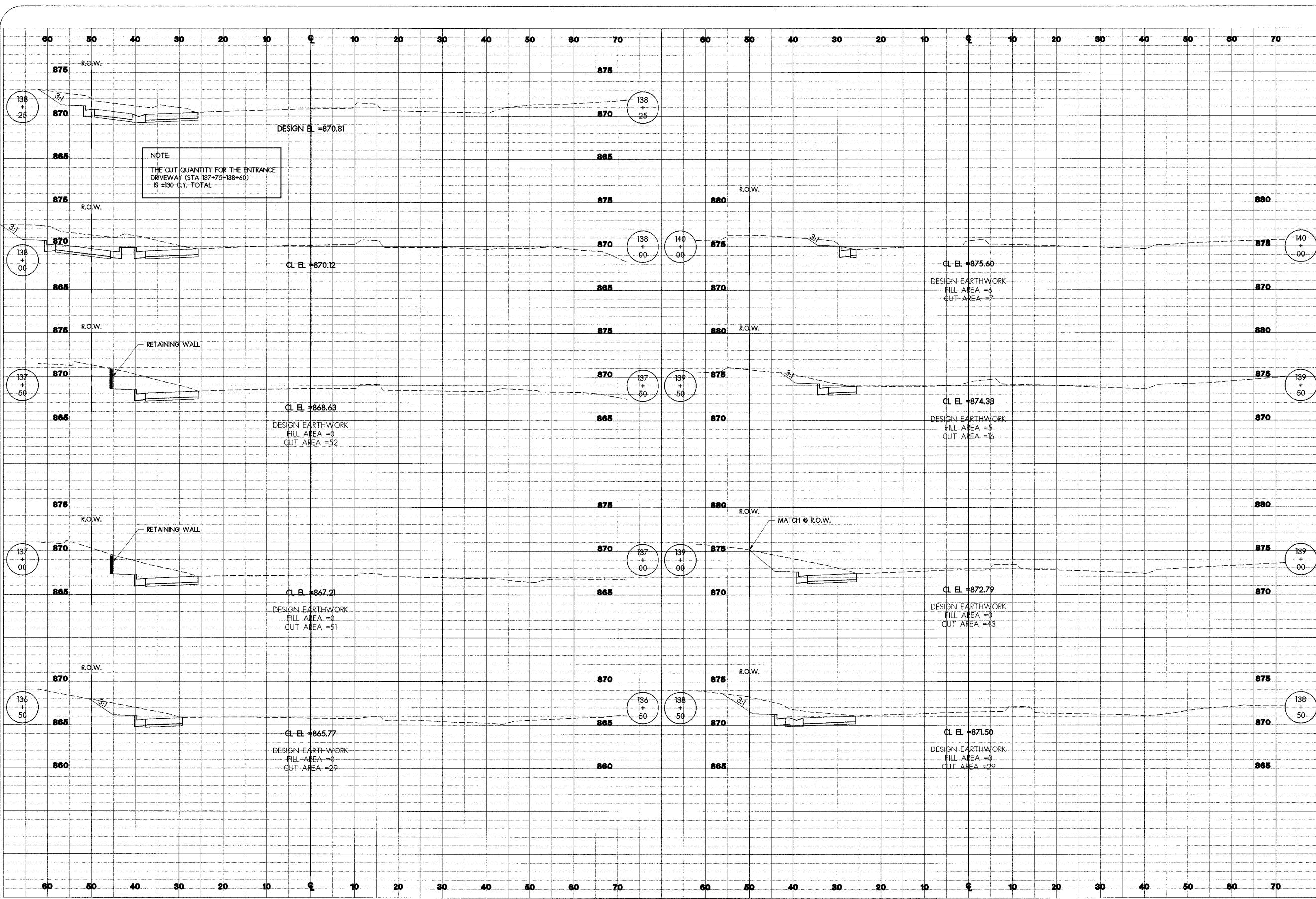
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**PM** MRR

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**04227**

**SHEET TITLE**  
**CROSS  
SECTIONS**

**RIVERSIDE BLVD**  
**STATION 136+50 TO  
STATION 140+00**

**SHEET NUMBER**  
**10 of x**





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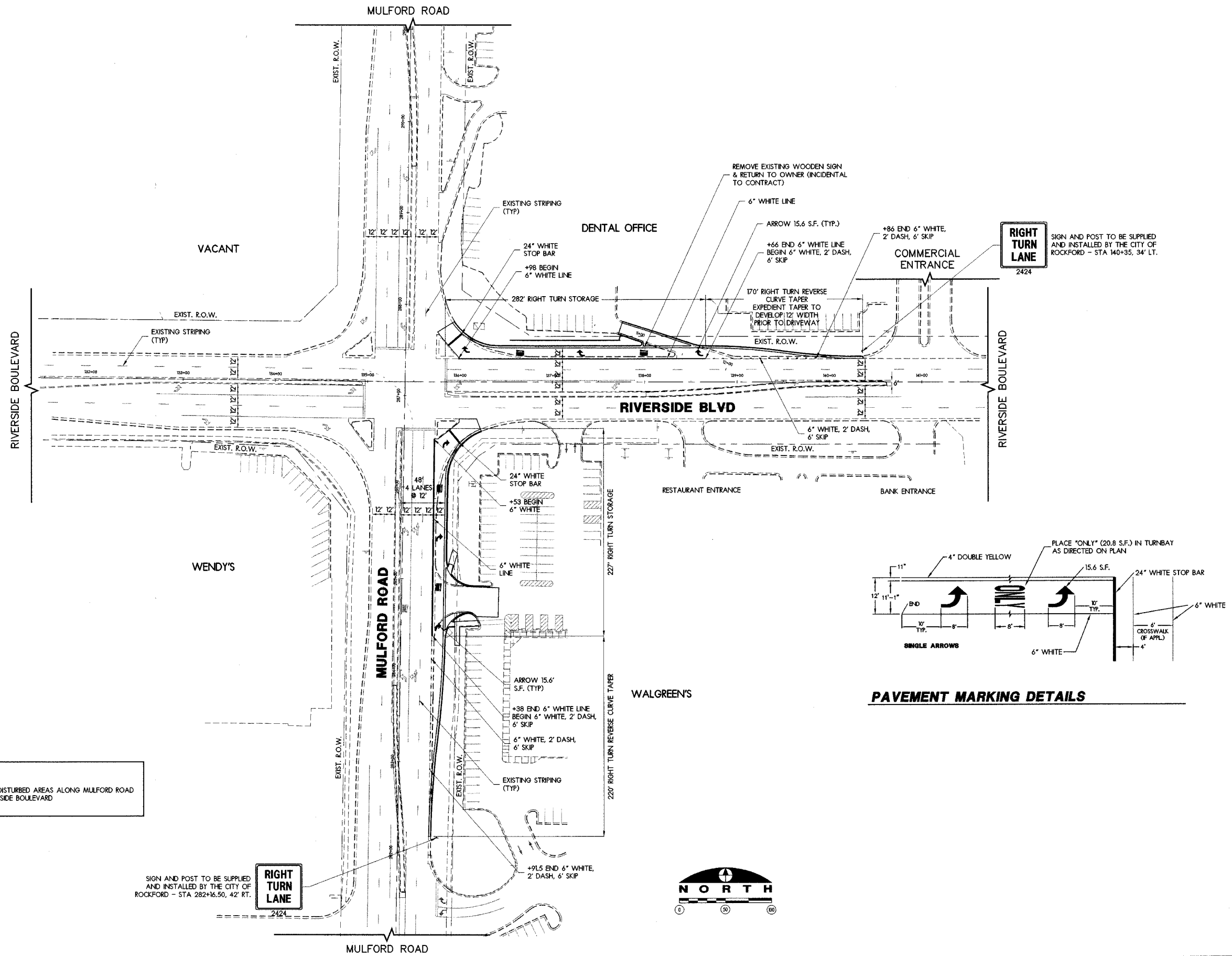
**04227**

**SHEET TITLE**

**LANDSCAPING, STRIPING & SIGNAGE PLAN**

**SHEET NUMBER**

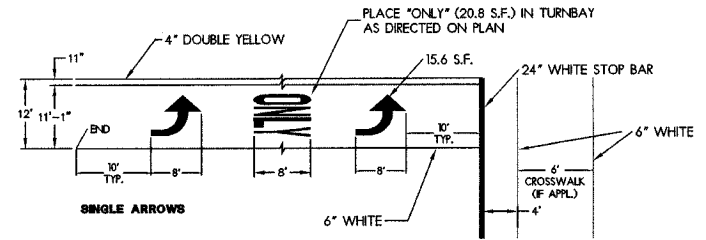
**11 of X**



**NOTE:**  
SOD ALL DISTURBED AREAS ALONG MULFORD ROAD AND RIVERSIDE BOULEVARD

SIGN AND POST TO BE SUPPLIED AND INSTALLED BY THE CITY OF ROCKFORD - STA 282+16.50, 42' RT.

**RIGHT TURN LANE**  
2424



**PAVEMENT MARKING DETAILS**





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**PROJECT NUMBER**  
**04227**

**SHEET TITLE**

**TRAFFIC SIGNAL INSTALLATION**

**SHEET NUMBER**  
**12 of X**

**GENERAL NOTES**

1. CALL J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION (800)892-0123
2. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
3. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) CURRENT EDITION.
4. ALL NEW CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
5. ALL TRAFFIC SIGNAL EQUIPMENT IS TO BE SPUN ALUMINUM OR GALVANIZED FINISH EXCEPT FOR SIGNAL HEADS.
6. ALL LENSES SHALL BE 12" AND L.E.D.
7. THE REMOVAL AND REINSTALLATION OF ANY EXISTING CABLES FOR THE PURPOSE OF INSTALLING PROPOSED CABLES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

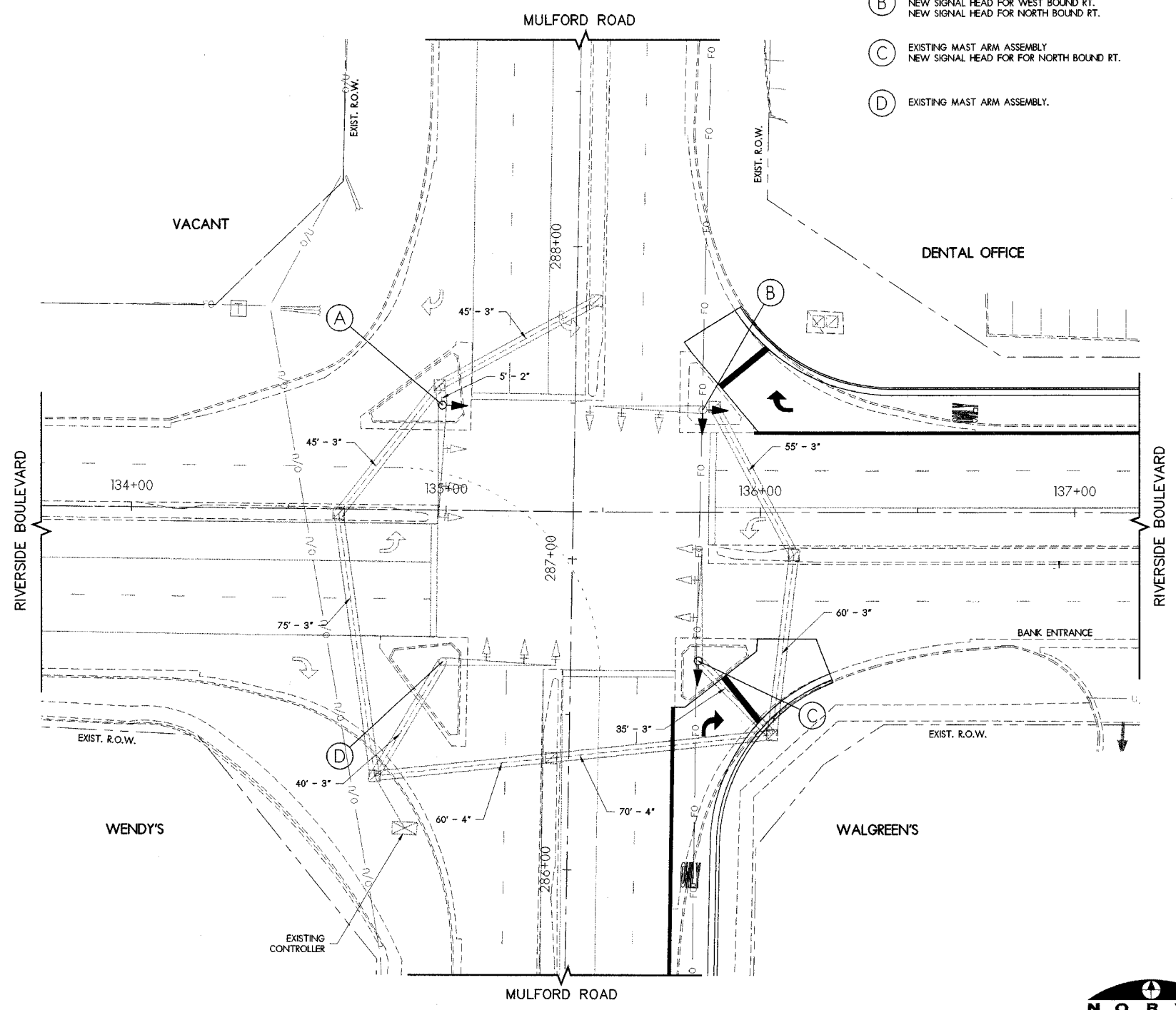
**TRAFFIC SIGNAL LEGEND**

	EXISTING	PROPOSED
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH		
LUMINAIRE WITH MAST ARM		

**TRAFFIC SIGNAL QUANTITIES**

87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1062
89502200	MODIFY EXISTING CONTROLLER	EACH	1
X8801395	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4

- (A) EXISTING MAST ARM ASSEMBLY  
NEW SIGNAL HEAD FOR WEST BOUND RT.
- (B) EXISTING MAST ARM ASSEMBLY  
NEW SIGNAL HEAD FOR WEST BOUND RT.  
NEW SIGNAL HEAD FOR NORTH BOUND RT.
- (C) EXISTING MAST ARM ASSEMBLY  
NEW SIGNAL HEAD FOR NORTH BOUND RT.
- (D) EXISTING MAST ARM ASSEMBLY.





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**04227**

**SHEET TITLE**  
**CABLE PLAN & SIGNAL QUANTITIES**  
**MULFORD ROAD/ RIVERSIDE BOULEVARD**

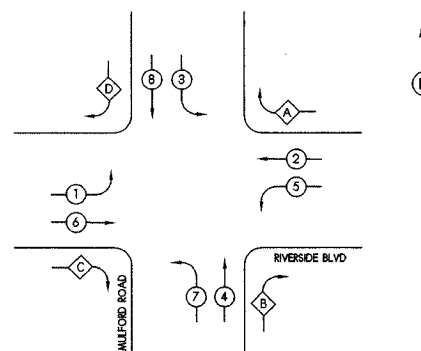
**SHEET NUMBER**  
**13 of x**

**CABLE PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER	≡	⊠
SERVICE INSTALLATION	—	⊕
SIGNAL FACE WITH BACKPLATE	RYG L*	RYG L*
SIGNAL FACE WITH OPTICALLY PROGRAMMED	RYG L*	RYG L*
SIGNAL FACE WITH DIRECTIONAL LOUVRE, TYPE B	RYG L*	RYG L*
LUMINAIRE, SODIUM VAPOR, 400 WATT	*	*
12" TRAFFIC SIGNAL SECTION	R	R
CONDUCTORS	7	7
VEHICLE DETECTOR INDUCTION LOOP	□	□

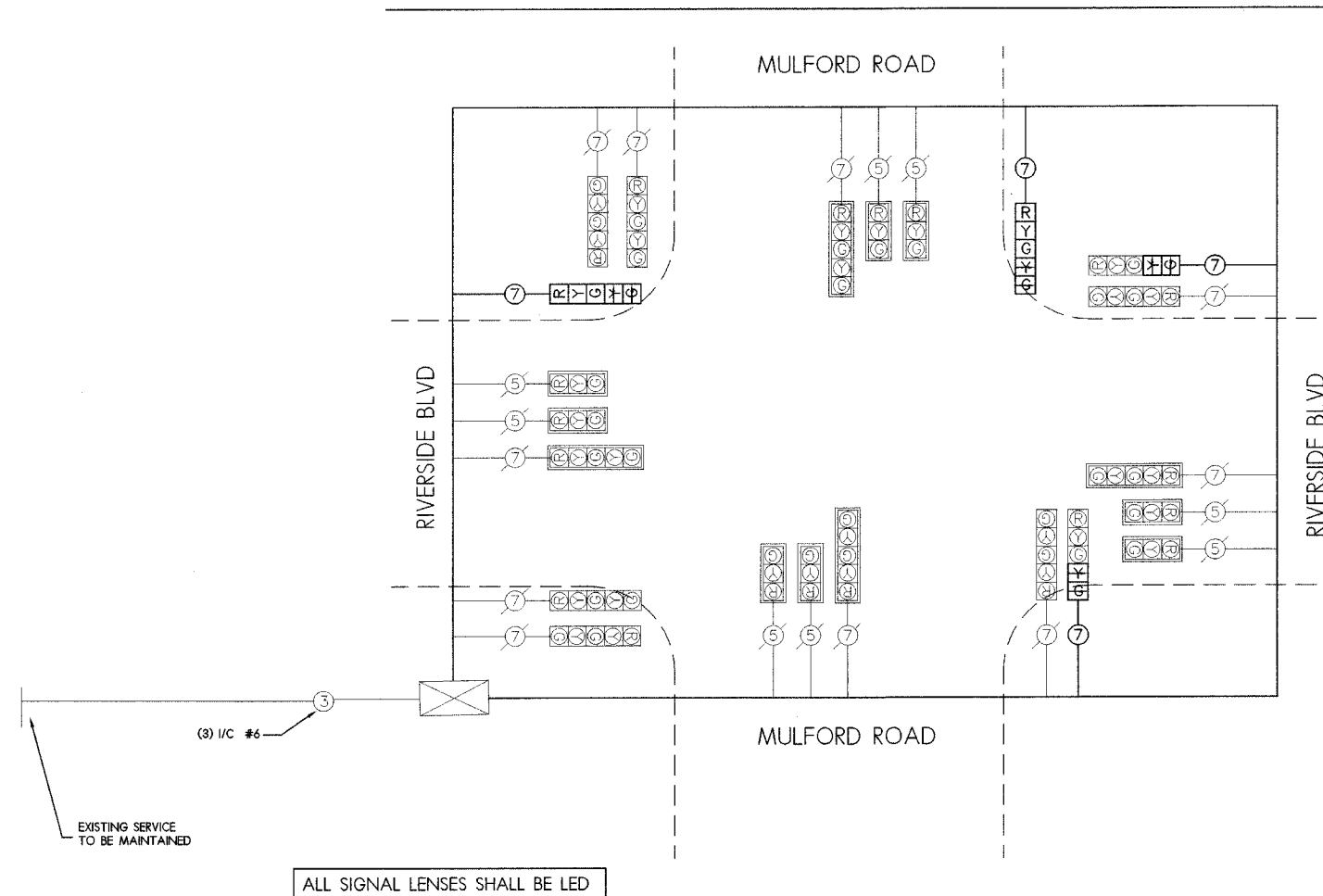
**PHASE DESIGNATION DIAGRAM**

THE VEHICULAR PHASES TO BE USED ARE DESIGNATED BELOW:



**PHASE DIAGRAM LEGEND**  
 □ SINGLE ENTRY PHASE  
 ○ DUAL ENTRY PHASE  
 ◇ OVERLAP PHASE A = 2+3  
 B = 4+5

**CABLE PLAN (MAST ARMS ONLY)**



**MAST ARM DETAILS**

