STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED BRIDGE REHABILITATION

McDONOUGH COUNTY F.A.S. ROUTE 441 (N. 50th ROAD/CH 26) OVER HOGWALLOW BRANCH

SECTION 17-00108-00-BR JOB NO. C-94-066-17

PROJECT NO. U37M (517) STRUCTURE NO. 055-3037

INDEX OF SHEETS

- COVER SHEET
- 2. GENERAL NOTES AND SUMMARY OF QUANTITIES
- 3. EROSION CONTROL PLAN
- 4. GENERAL PLAN AND ELEVATION
- 5. PPC DECK BEAM SUPERSTRUCTURE DETAILS
- 6. PPC DECK BEAM DETAILS
- 7. STEEL RAILING, TYPE S-1 DETAILS

LIST OF STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07 TEMPORARY EROSION CONTROL DEVICES
515001-03 NAME PLATE FOR BRIDGES

630001-12 STEEL PLATE BEAM GUARDRAIL

630301-08 SHOULDER WIDENING FOR TYPE 1 (SPL) GUARDRAIL TERMINALS

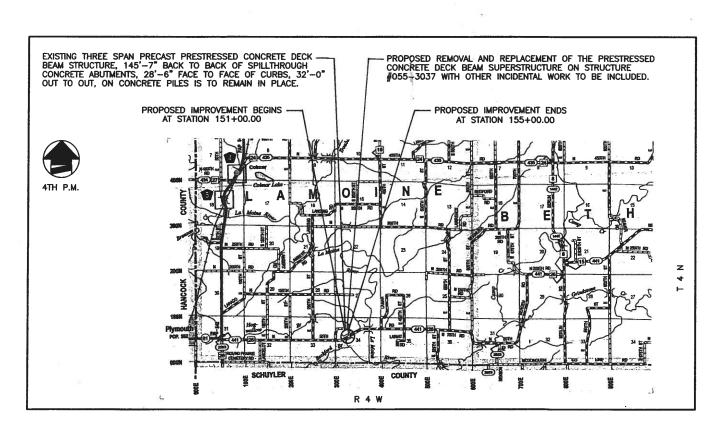
631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2

701901-07 TRAFFIC CONTROL DEVICES
725001-01 OBJECT AND TERMINAL MARKERS

BLR21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

BLR26-3 STEEL PLATE BEAM GUARDRAIL 29" HEIGHT

BLR27-1 TRAFFIC BARRIER TERMINAL, TYPE 5A



CALL JULIE TOLL FREE 1-(800)-892-0123 or 811 OPERATES 24 HOURS A DAY 365 DAYS A YEAR



48 HOURS BEFORE YOU DIG

LOCATION MAP

APPROXIMATE SCALE:

TOTAL & NET LENGTH OF PROJECT: 400.0 FT. = 0.076 MI.

ROADWAY CLASSIFICATION: MAJOR COLLECTOR (ADT = 175)

DESIGN GUIDELINES: RURAL

DESIGN SPEED = 40 M.P.H.

COMMITMENTS: NONE



6/15/18 DATE

PROJECT LOCATION

REGIONAL MAP

PASSED

DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID AUGUST 29 20 18

REVIEW

REGION 3 ENGINEER

REGION 3 ENGINEER

PLANS PREPARED BY THE
McDONOUGH COUNTY HIGHWAY DEPARTMENT
MACOMB, ILLINOIS

CONTRACT NO. 89747 CATALOG NO. 035489-00

JOB NO. C-94-066-17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

McDONOUGH COUNTY	SHEET NO.	2
F.A.S. ROUTE 441	TOTAL SHEETS	7
CONTRACT NO. 89747		
PROJECT NO. U37M (517)	
SECTION 17-00108-00-	BR .	

SUMMARY OF QUANTITIES

QUANTITIES NOT OTHERWISE SHOWN ON THE PLANS

LR212000	SHAPING ROADWAY	UNIT	400.0	
28000400	PERIMETER EROSION BARRIER	FOOT	715.0	
28100830	STONE DUMPED RIPRAP, CLASS B4	TON	640.0	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1.0	
50102400	CONCRETE REMOVAL	CU YD	1.4	
50300225	CONCRETE STRUCTURES	CU YD	2.8	
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS 17" DP	SQ FT	4616.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	470.0	
△50900205	STEEL RAILING, TYPE S-1	FOOT	292.0	
51500100	NAME PLATES	EACH	1.0	
Д 63000001	STEEL PLATE BEAM GUARDRAIL TYPE A (6' POSTS)	FOOT	100.0	
△ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2.0	
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4.0	
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0	
63200310	GUARDRAIL REMOVAL	FOOT	375.0	
67100100	MOBILIZATION	LUMP SUM	1.0	
70101830	TRAFFIC CONTROL AND PROTECTION	LUMP SUM	1.0	
₫ 72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4.0	

LR212000: SHAPING ROADWAY STATION 151+51 LT. TO STATION 152+26 LT. = 75.0 FT. STATION 151+08 RT. TO STATION 152+08 RT. = 100.0 FT. STATION 153+72 LT. TO STATION 154+72 LT. = 100.0 FT. STATION 153+54 RT. TO STATION 154+79 RT. = 125.0 FT. TOTAL = 400.0 FT.

50400305: PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)

48'-1" x 4'-0" = 192.3 SQ FT x 24 BEAMS = 4615.2 SQ FT -- USE 4616.0 SQ FT

63200310: GUARDRAIL REMOVAL

STATION 151+51 LT. TO STATION 152+26 LT. = 75.0 FT. STATION 151+08 RT. TO STATION 152+08 RT. = 100.0 FT. STATION 153+72 LT. TO STATION 154+72 LT. = 100.0 FT. STATION 153+54 RT. TO STATION 153+79 RT. = 25.0 FT. STATION 154+04 RT. TO STATION 154+79 RT. = 75.0 FT. TOTAL = 375.0 FT.

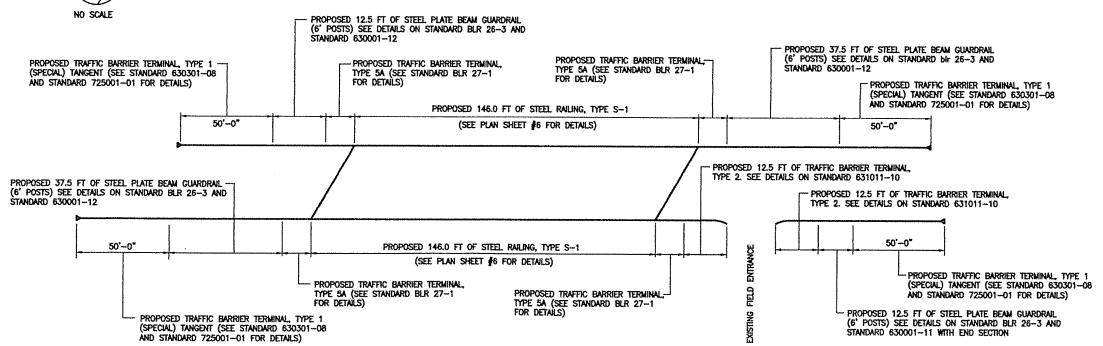
50102400: CONCRETE REMOVAL

CONCRETE REMOVAL CONSISTS OF THE REMOVAL OF THE BACKWALL ON BOTH ENDS OF THE BRIDGE

1.00 FT x 0.50 FT x 37.33' x 2 SIDES = 37.33 CU FT/27 = 1.35 CU YD --- USE 1.4 CU YD



A SPECIALTY ITEMS



PLAN VIEW OF GUARDRAIL AND TRAFFIC BARRIER TERMINAL LOCATIONS

GENERAL NOTES

- 1. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE
- 2. THE COST OF REMOVING ANY EXISTING FIELD ENTRANCE CULVERTS IS TO BE CONSIDERED INCLUDED IN THE COST PER FOOT FOR SHAPING ROADWAY.
- 3. THE NECESSARY REMOVAL OF ANY EXISTING FENCES ARE TO BE DONE BY OTHERS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO BURY THE EXISTING STRUCTURES OR TREES NEAR THE JOBSITE THIS MATERIAL IS TO BE HAULED OFF THE AREA BY THE CONTRACTOR EXCEPT FOR THOSE MATERIALS DEEMED SALVAGABLE BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TO NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THIS SHALL BE INCIDENTAL TO THE CONTRACT.
- 6. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ANY FALLEN TREES IN THE CREEK WHICH LIE WITHIN THE LIMITS OF THE PROPOSED RIGHT OF WAY. THIS COST WILL NOT BE PAID FOR SEPARATELY BUT IS TO BE CONSIDERED INCIDENTAL TO THE
- 7. BACKFILLING OF THE ROADWAY AT EACH END OF THE BRIDGE IS TO BE DONE BY THE CONTRACTOR USING CA-6 MATERIAL UP TO 8° from the top of the New Deck Beams with a bituminous cold mix to be used for the remainder of the of the Area TO BE BACKFILLED. THESE MATERIALS SHALL BE PLACED IN 4" LIFTS AND COMPACTED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT IS TO BE CONSIDERED INCIDENTAL TO THE CONTRACT. ANY ADDITIONAL WORK TO TO ENSURE A SMOOTH TRANSITION ON AND OFF THE BRIDGE FROM THE ROADWAY IN BOTH DIRECTIONS IS TO BE DONE BY OTHERS. THE CONTRACTOR'S TRAFFIC CONTROL SHALL REMAIN IN PLACE UNTIL ALL APPROACH WORK HAS BEEN COMPLETED AND THE CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER THAT THE ROAD CAN BE REOPENED TO TRAFFIC.
- 8. THE APPLICATION OF SEED, FERTILIZER NUTRIENTS, AND MULCH IS TO BE DONE BY OTHERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 9. ENVIRONMENTAL REVIEWS: PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
 BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
 COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

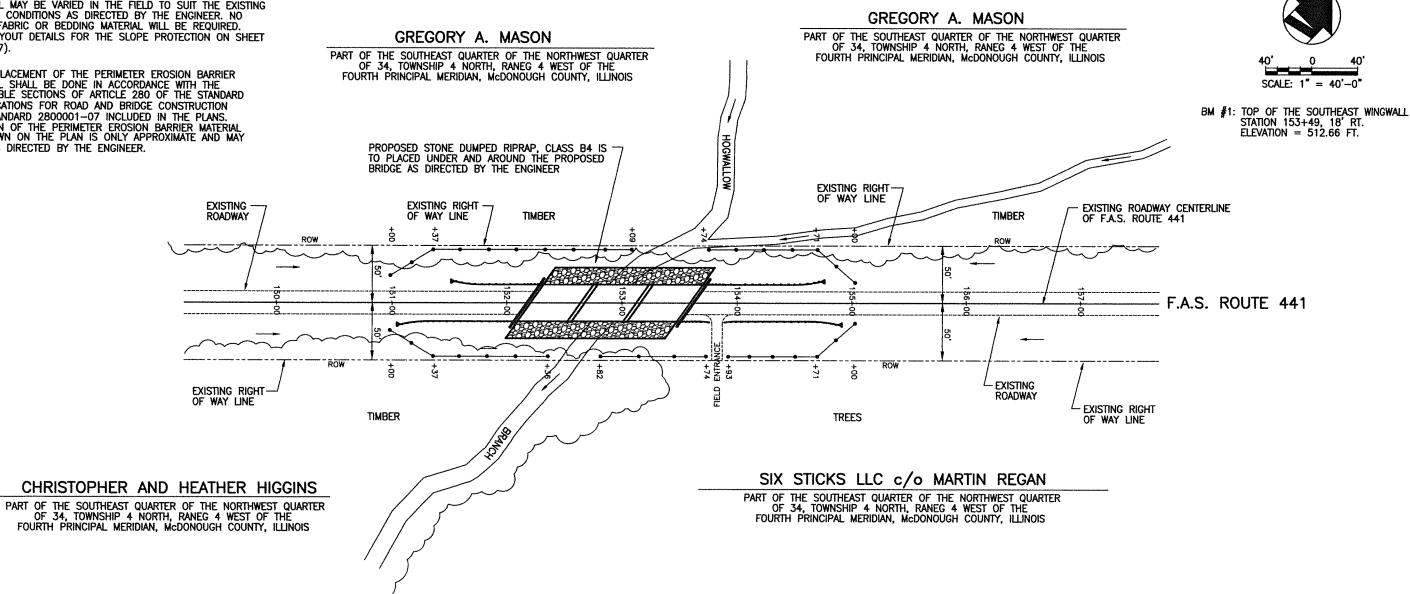
McDONOUGH COUNTY SHEET NO. FAS ROUTE 441 TOTAL SHEETS CONTRACT NO. 89747 PROJECT NO. U37M (517) SECTION NO. 17-00108-00-BR

--- PROPOSED PERIMETER EROSION BARRIER

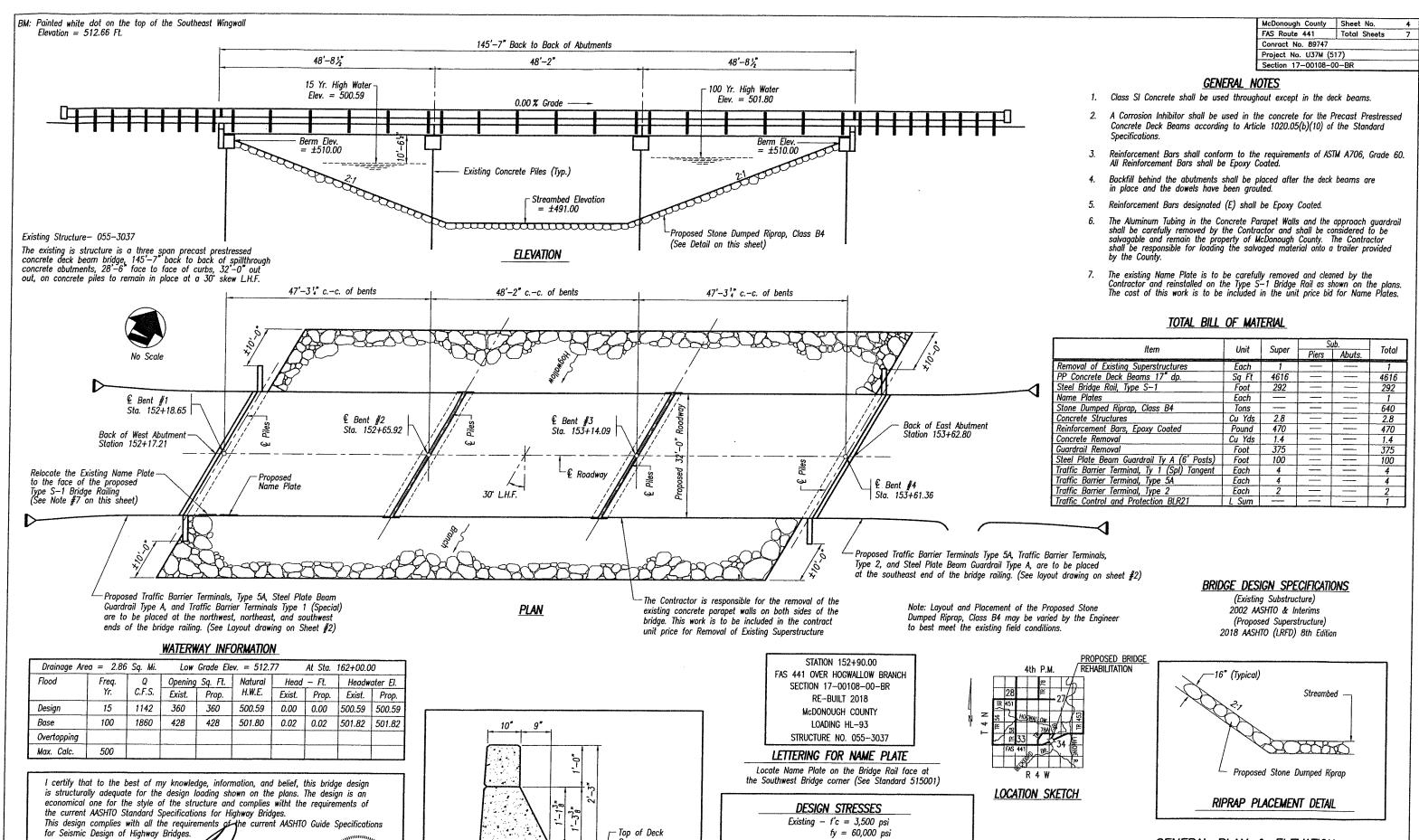
PROPOSED STONE DUMPED RIPRAP

NOTE: PLACEMENT OF THE STONE DUMPED RIPRAP CLASS B4 MATERIAL SHALL BE DONE IN ACCORDANCE WITH ARTICLE 281.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. LAYOUT OF THE SLOPE PROTECTION MATERIAL MAY BE VARIED IN THE FIELD TO SUIT THE EXISTING GROUND CONDITIONS AS DIRECTED BY THE ENGINEER. NO FILTER FABRIC OR BEDDING MATERIAL WILL BE REQUIRED. (SEE LAYOUT DETAILS FOR THE SLOPE PROTECTION ON SHEET

NOTE: PLACEMENT OF THE PERIMETER EROSION BARRIER MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF ARTICLE 280 OF THE STANDARD APPLICABLE SECTIONS OF ARTICLE 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 2800001—07 INCLUDED IN THE PLANS. LOCATION OF THE PERIMETER EROSION BARRIER MATERIAL AS SHOWN ON THE PLAN IS ONLY APPROXIMATE AND MAY VARY AS DIRECTED BY THE ENGINEER.



EROSION CONTROL PLAN



Proposed -Field Units

f'c = 3,500 psify = 60,000 psi

1'-9"

DETAILS OF EXISTING CURB TO BE REMOVED

Benjamin A. Nebel

Expires 11/30/2018

Illinois Structural Engineer No. 081-0068

Precast Prestressed Units

f's = 270,000 psi (5'' strand)

f'si = 201,960 psi (½" strand)

f'c = 6,000 psi

f'ci = 5,000 psi

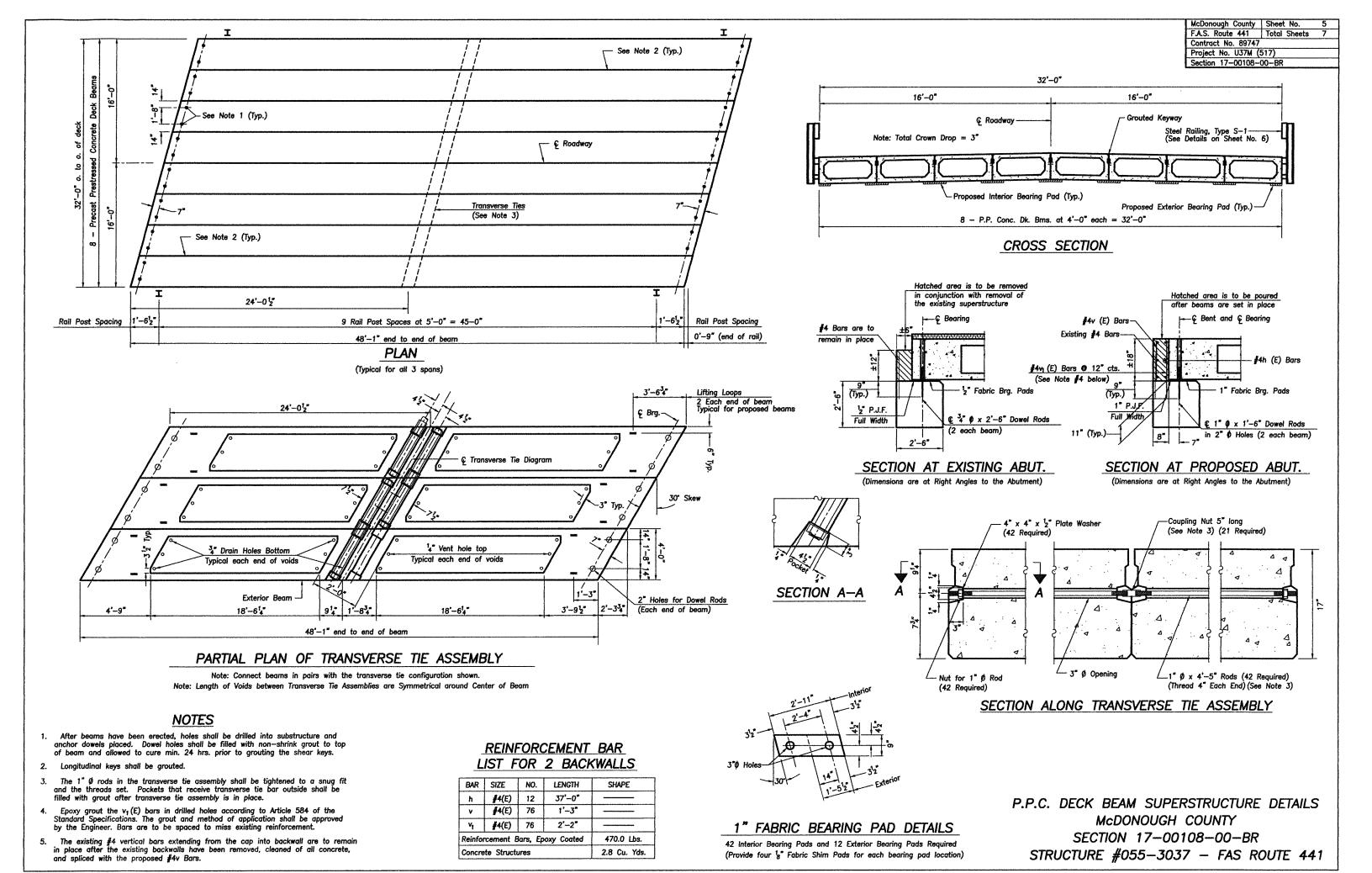
GENERAL PLAN & ELEVATION

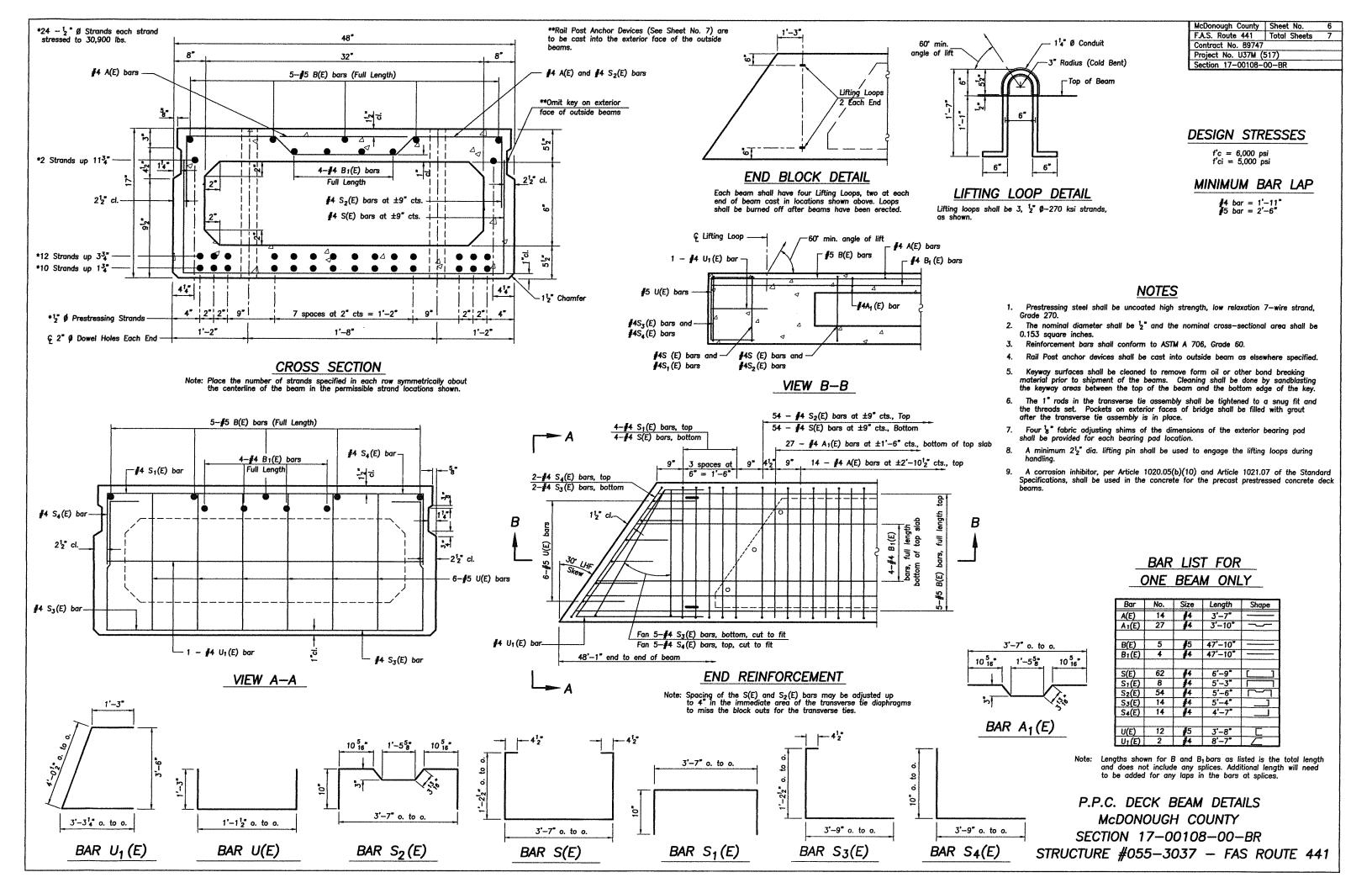
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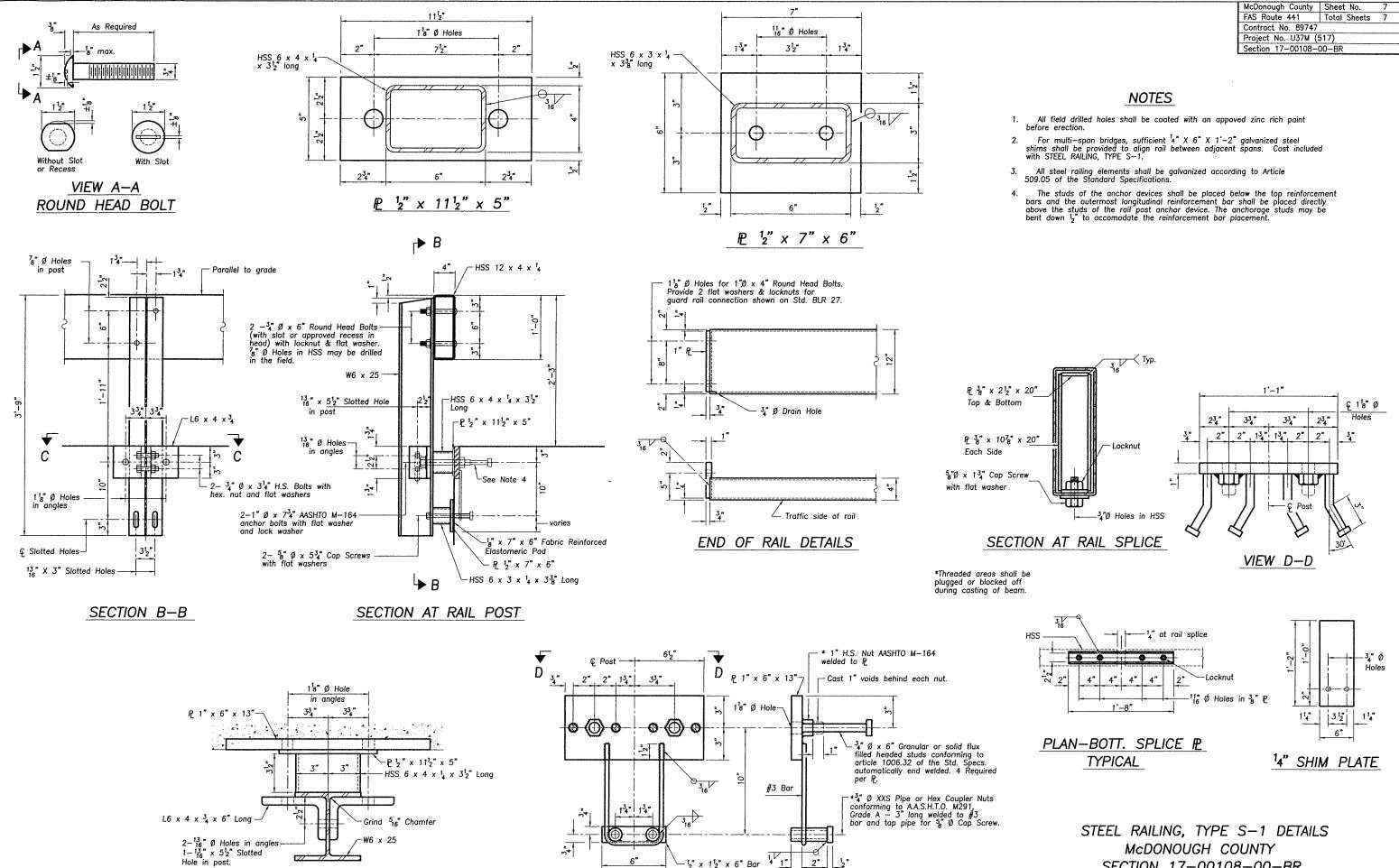
SECTION 17-00108-00-BR

McDONOUGH COUNTY

STATION 152+90.00







12" x 112" x 6" Bar

ANCHOR DEVICE

SECTION C-C

McDONOUGH COUNTY SECTION 17-00108-00-BR STRUCTURE #055-3037 - FAS ROUTE 441