

INDEX OF SHEETS

1. COVER
2. GENERAL NOTES, TYPICAL SECTIONS, & SUMMARY QUANTITIES
3. TRAFFIC CONTROL PLAN
4. REMOVAL PLAN
5. PLAN AND PROFILE
6. EROSION CONTROL PLAN
7. GENERAL PLAN AND ELEVATION
8. GEOMETRIC LAYOUT AND REMOVAL PLAN
9. SUPERSTRUCTURE PLAN
10. SUPERSTRUCTURE SECTIONS
11. PARAPET AND MISC. DETAILS
12. PARAPET RAILING DETAILS
13. WING WALLS & END POSTS
14. ABUTMENT CONCRETE REPAIRS

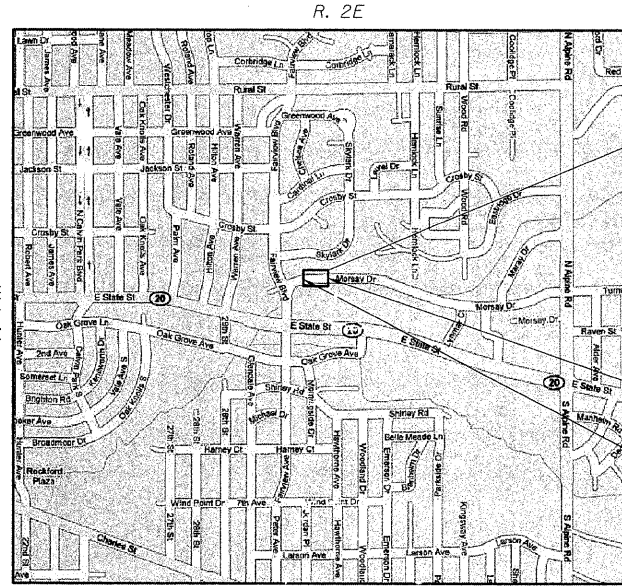
LIST OF STANDARDS

- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 515001-03 NAME PLATE FOR BRIDGES
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 630001-08 STEEL PLATE BEAM GUARDRAIL
- 631011-06 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631031-08 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 667101-01 PERMANENT SURVEY MARKERS
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-02 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-02 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 7290G1-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR 21-B TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

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

**PLANS FOR PROPOSED
BRIDGE REHABILITATION PROJECT
F.A.U. ROUTE 5068 (MORSAY DRIVE)
OVER NORTH BRANCH KEITH CREEK
ROCKFORD, IL**

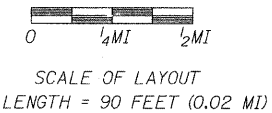
**SECTION 09-00565-00-BR
WINNEBAGO COUNTY
PROJECT BHM-5099(099)
JOB NUMBER C-92-100-10**



PROPOSED IMPROVEMENTS
SUPERSTRUCTURE REPLACEMENT AND
SUBSTRUCTURE REHABILITATION OF
EXISTING BRIDGE OVER NORTH BRANCH
KEITH CREEK.

IMPROVEMENT ENDS
STATION 2+52
IMPROVEMENT BEGINS
STATION 1+62

LOCATION PLAN



TRAFFIC DATA
HIGHWAY CLASSIFICATION: COLLECTOR
2030 ADT: 7500 1% TRUCKS
DESIGN SPEED: 30 MPH
POSTED SPEED: 30 MPH

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig.

TOLL FREE

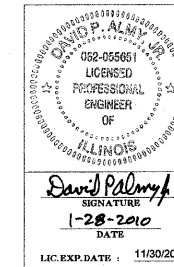
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
(J.U.L.I.E.) TELEPHONE NUMBER
1-800-892-0123 or 811

APPROVED January 21 2010
Paul T. Matus
CITY ENGINEER

PASSED Feb. 16 2010
[Signature]
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW Feb. 16 2010
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS REGION 2 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Corporate License Number 184-001-084

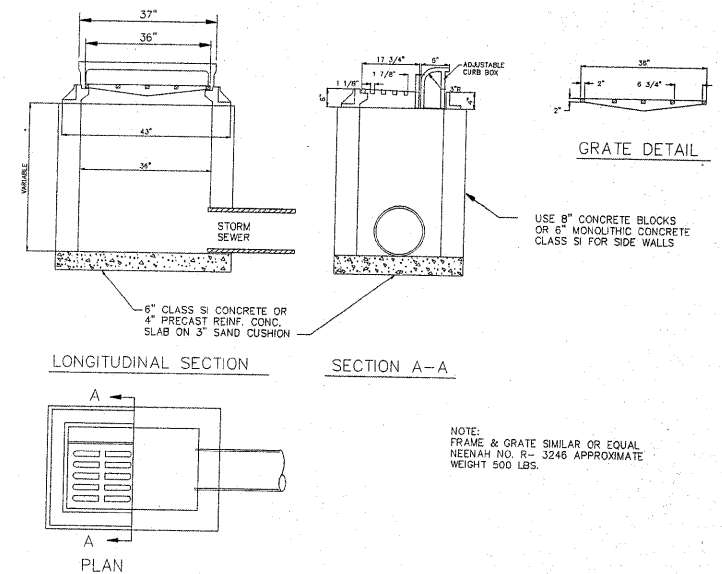
09L0012	Copyright Hanson Professional Services Inc. 2009	SHEET NO.	F.A.U. ROUTE 5068	SECTION 09-00565-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 14	SHEET NO. 1
DATE 01/20/10	HANSON	SHEETS	CONTRACT NO. 85507		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT		

CONTRACT NO. - 85507

01/20/2010
 SWK 11/22/09
 MWH 11/22/09
 SWK 11/22/09
 01/20/2010
 SWK 11/22/09
 MWH 11/22/09
 SWK 11/22/09

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND SIZE OF EXISTING AND PROPOSED STORM SEWER LINES PRIOR TO ORDERING AND FABRICATION OF DRAINAGE STRUCTURES OR SEWERS.
2. WHERE SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
3. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
6. ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
7. ANY EXISTING ROADWAY SIGNS OR POSTS IN CONFLICT WITH CONSTRUCTION ACTIVITY MUST BE CAREFULLY REMOVED AND REINSTALLED BY THE CONTRACTOR. ANY SIGNS OR POSTS DAMAGED BY THE CONTRACTOR MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. THIS WORK IS CONSIDERED INCIDENTAL TO CONSTRUCTION.
8. ALL STORM SEWER STRUCTURES SHALL BE PRECAST CONCRETE. SIZE OF PRECAST RISERS AND/OR GRADE RINGS SHALL BE THE SAME INSIDE SIZE AS THE PRECAST BOX OR MATCH THE NOMINAL SIZE OF THE INLET BOX.
9. TRENCH BACKFILL SHALL BE USED IN ALL LOCATIONS WHERE THE EDGE OF THE EXCAVATION TRENCH FOR UTILITY EXCAVATION IS WITHIN 2 FEET OF PROPOSED ROADWAY, CURB AND/OR SIDEWALK. QUANTITY FOR TRENCH BACKFILL WAS CALCULATED FROM IDOT "TRENCH BACKFILL TABLE" BASED ON A THEORETICAL TRENCH WIDTH. ADDITIONAL TRENCH BACKFILL THAT IS NECESSARY DUE TO OVER EXCAVATION OF TRENCH WILL NOT BE PAID FOR.
10. SAWING OF JOINTS SHALL COMMENCE AS SOON AS POSSIBLE AND SHALL CONTINUE UNTIL COMPLETE, REGARDLESS OF WEATHER OR TIME OF DAY.
11. ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
12. ANY DAMAGE TO THE EXISTING SIDEWALK OR CURB TO REMAIN DURING ANY CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. THE OWNER RESERVES THE RIGHT TO REDUCE ANY QUANTITY OR DELETE ANY PAY ITEMS FROM THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
14. IN ACCORDANCE WITH SECTION 602 OF STANDARD SPECIFICATIONS, THE CONNECTION OF EXISTING DRAIN TILES, PIPE UNDERDRAINS, PIPE CULVERTS, AND STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.
15. ALL ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
16. WHERE NEW SIDEWALK CONSTRUCTION MATCHES EXISTING PRIVATE SIDEWALKS, THE NEW SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO MINIMUM CITY OF ROCKFORD STANDARDS. THIS WORK WILL BE PAID FOR AS P.C.C. SIDEWALK, 4 IN. OF WHICH THE HORIZONTAL SURFACE AREA WILL BE MEASURED FOR PAYMENT.
17. ALL PAVEMENT, CURB, SIDEWALK AND DRIVEWAYS TO BE ADJUSTED SHALL BE SAW CUT AT THE LIMITS OF THE ADJUSTMENT AND TRANSITION. THIS WORK ITEM SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO FURTHER COMPENSATION WILL BE ALLOWED.
18. ANY UNCONTROLLED CRACKING THAT OCCURS IN P.C.C. PAVEMENTS, SIDEWALKS, CURBS, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO IDOT STANDARD SPECIFICATION SECTION 452. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE ITEMS.
19. ALL SANITARY SERVICE LATERALS CUT OR DAMAGED DURING CONSTRUCTION SHALL BE RECONNECTED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE "GENERAL PROVISIONS AND TECHNICAL SPECIFICATIONS FOR SANITARY SEWER CONSTRUCTION" AS PUBLISHED BY THE ROCK RIVER WATER RECLAMATION DISTRICT.
20. THE INITIAL STORM SEWER BACKFILL MATERIAL SHALL BE IDOT CLASSIFICATION CA-7 CONFORMING TO ARTICLE 1004.01 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE REMAINDER OF THE BACKFILL SHALL BE TRENCH BACKFILL CONFORMING TO SECTION 208 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE TO APPLICABLE PORTIONS OF ARTICLE 550.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", EXCEPT THAT THE MAXIMUM THICKNESS OF ANY LIFT SHALL BE 6 INCHES. ONLY COMPACTION METHOD 1 SHALL BE ALLOWED.
21. ALL STORM SEWERS SHALL BE CONSTRUCTED IN CONFORMANCE TO APPLICABLE PORTIONS OF SECTION 550 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CONNECTION OF NEW STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS STORM SEWER PAY ITEMS.

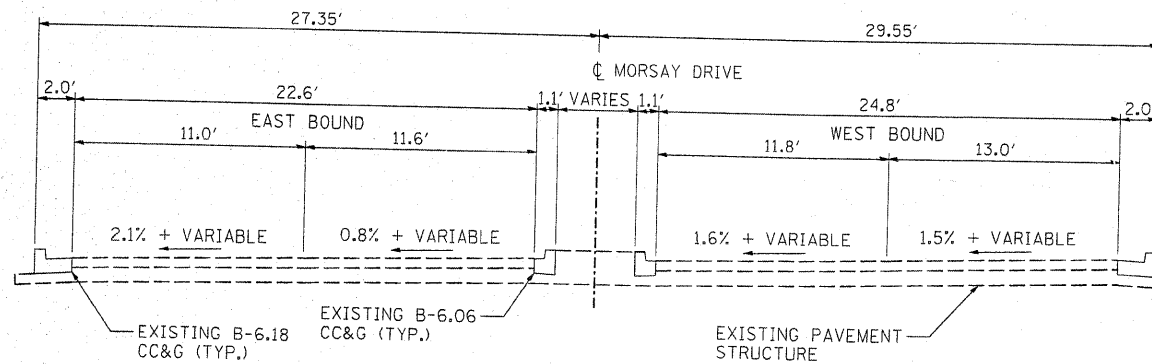


STANDARD INLET TYPE 700

SUMMARY OF QUANTITIES

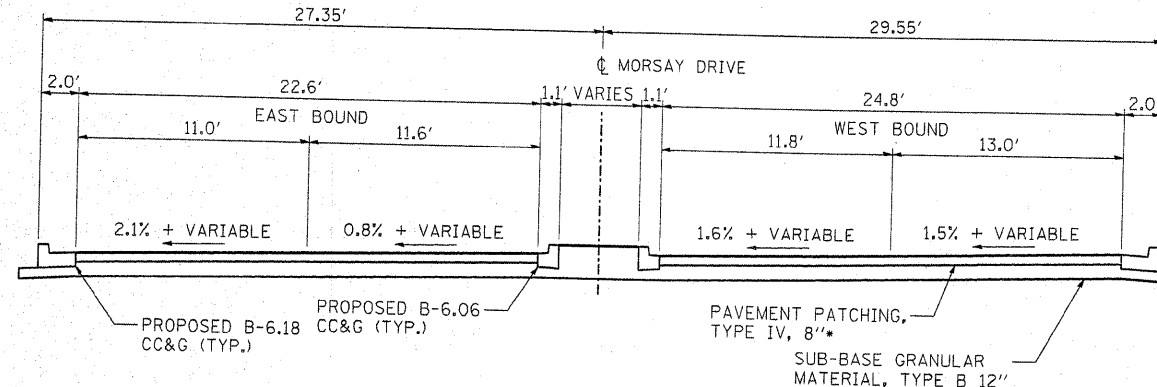
CONSTRUCTION TYPE CODE X020-2A Δ SPECIALTY ITEMS

CODED PAY ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
20300100	CHANNEL EXCAVATION	CU YD	345
20800150	TRENCH BACKFILL	CU YD	2
25100630	EROSION CONTROL BLANKET	SQ YD	210
28000400	PERIMETER EROSION BARRIER	FOOT	215
28100109	STONE RIPRAP, CLASS A5	SQ YD	436
28200200	FILTER FABRIC	SQ YD	436
31101810	SUB - BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	202
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	257
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	161
44000600	SIDEWALK REMOVAL	SQ FT	105
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	147
44200101	PAVEMENT PATCHING, TYPE IV, 8 INCH	SQ YD	202
50101600	REMOVAL OF EXISTING SUPERSTRUCTURE	L SUM	1
50200200	STRUCTURE EXCAVATION (SPECIAL)	CU YD	258
50300100	FLOOR DRAINS	EACH	12
50300225	CONCRETE STRUCTURE	CU YD	4.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	170.5
50300260	BRIDGE DECK GROOVING	SQ YD	275
50300300	PROTECTIVE COAT	SQ YD	428
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37,570
50901750	PARAPET RAILING	FOOT	134.5
51500100	NAME PLATES	EACH	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	13
55100500	STORM SEWER REMOVAL 12"	FOOT	13
60500060	REMOVING INLETS	EACH	2
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	80
60619200	CONCRETE MEDIAN, TYPE SB - 6.06	SQ FT	262
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
66700095	PERMANENT SURVEY MARKERS	EACH	1
67100100	MOBILIZATION	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	180
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	60
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	220
78200410	GUARDRAIL MARKERS, TYPE A	EACH	4
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	20
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	110
XX000968	INLET TYPE 700	EACH	2
XX002053	LANDSCAPE RESTORATION	L SUM	1
XX006821	CONCRETE TRUCK WASHOUT	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018905	DRILL AND GROUT BARS	EACH	92



EXISTING TYPICAL SECTION

EAST OF BRIDGE (LOOKING WEST)
(WEST OF BRIDGE SIMILAR)



PROPOSED TYPICAL SECTION

EAST OF BRIDGE (LOOKING WEST)
(WEST OF BRIDGE SIMILAR)

- 2" HMA SURFACE
- 2.5" HMA BINDER (MIDDLE LIFT)
- 3.5" HMA BINDER (BOTTOM LIFT)

UTILITY CONTACTS

UTILITY NAME	TYPE	PHONE NUMBER
NICOR 4651 LINDEN ROAD ROCKFORD, IL 61109	GAS	(815) 965-5416
COMED 123 ENERGY AVENUE ROCKFORD, IL 61109	ELECTRIC	(815) 490-2320
COMCAST 4450 KISHWAUKEE ST. ROCKFORD, IL 61109	CABLE TV	(815) 395-8977
DANA CARROL ROCK RIVER WATER RECLAMATION DISTRICT 3333 KISHWAUKEE ST. ROCKFORD, IL 61106	SANITARY SEWER DISTRICT	(815) 387-7400
TIM HOLDEMAN CITY OF ROCKFORD WATER DIVISION	WATER	(815) 987-5700

MIXTURE REQUIREMENTS

LOCATION	MORSAY DRIVE	MORSAY DRIVE
MIXTURE USES	SURFACE	BINDER
PG GRADE	PG64-22	PG64-28
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL-9.5 OR IL-12.5	IL-19.0
FRICTION AGGREGATE	MIXTURE D	
MIXTURE WEIGHT	112 LB/SQ YD/IN	112 LB/SQ YD/IN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, TYPICAL SECTIONS & SUMMARY OF QUANTITIES
MORSAY DRIVE BRIDGE
ROCKFORD, IL**

SCALE: AS SHOWN SHEET NO. 2 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5068	09-00565-00-BR	WINNEBAGO	14	2
CONTRACT NO. 85507				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HANSON
Hanson Professional Services Inc.

DATE: 02/20/10
 DRAWN: MWH
 CHECKED: DPA
 REVIEWED: DPA
 PLOT DATE: 02/20/10
 PLOT SCALE: AS SHOWN
 PLOT DATE: 02/20/10

USER NAME = MWH

DESIGNED - DPA

REVISED -

DRAWN - MWH

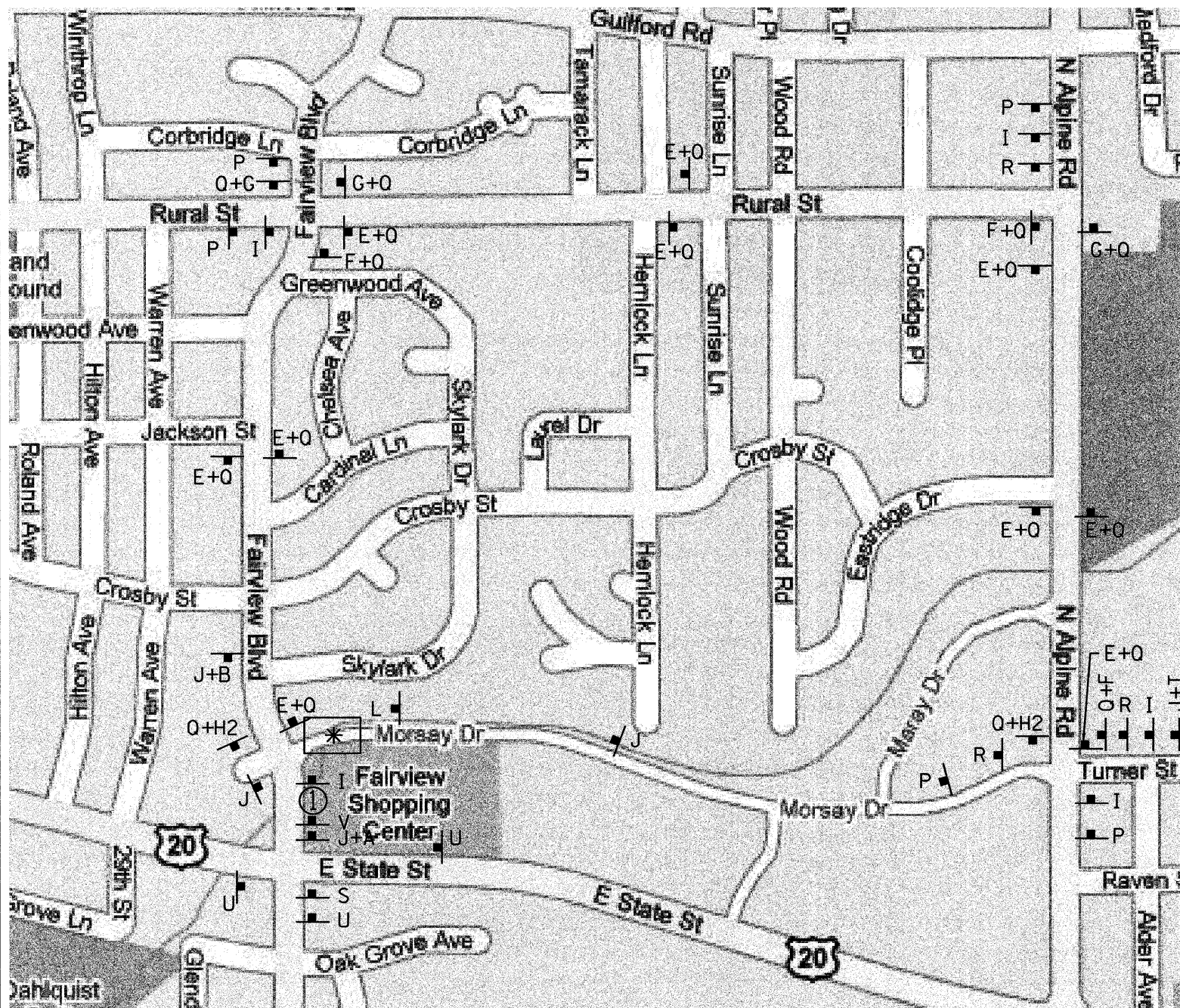
REVISED -

CHECKED - DPA

REVISED -

DATE - 01/20/10

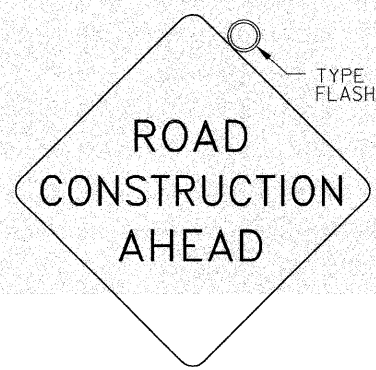
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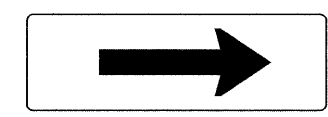
- * ROAD CLOSURE SIGNED IN ACCORDANCE WITH STANDARD 701901 & BLR 21
- ① LANE CLOSURE TAPER PER STANDARD 701606

TRAFFIC CONTROL PLAN

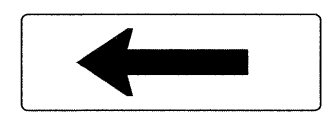
NOTES:
 1. ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701901.



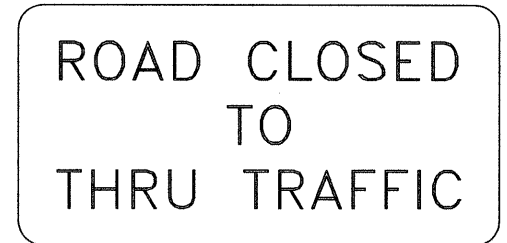
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TYPE U



M6-1(0)-2115
TYPE A



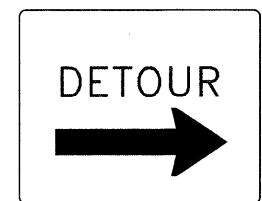
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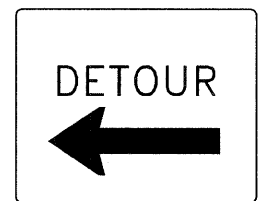
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TYPE D



M4-8(0)-2412
TYPE E



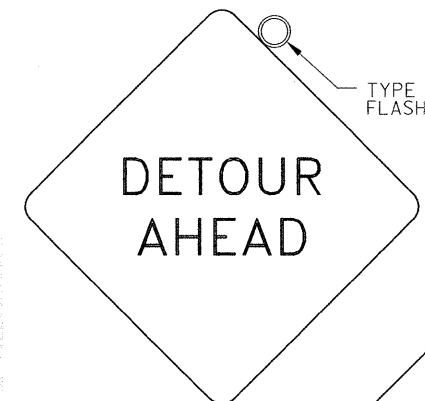
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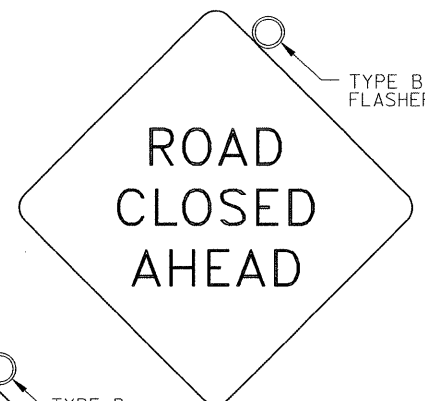
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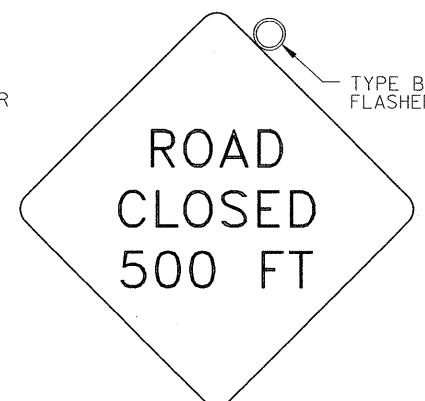
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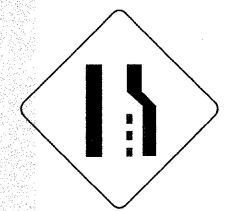
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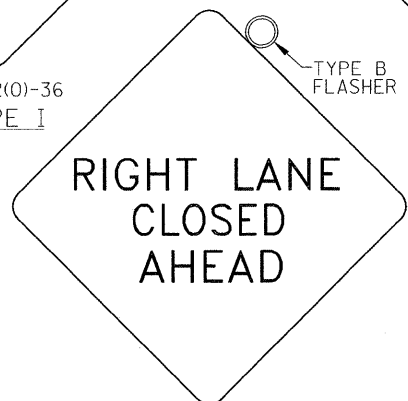
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TYPE J



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TYPE L



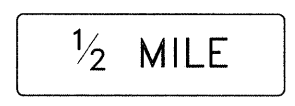
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TYPE V



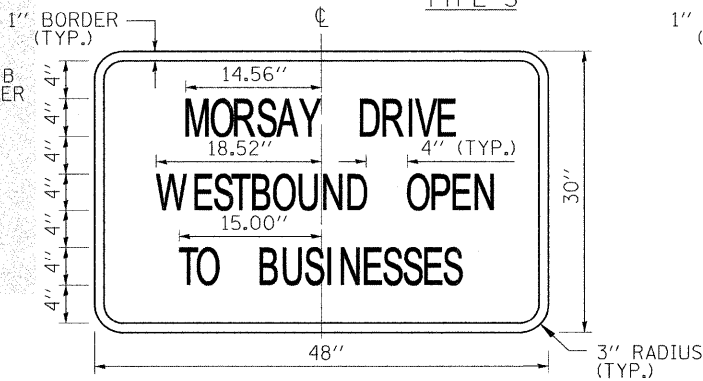
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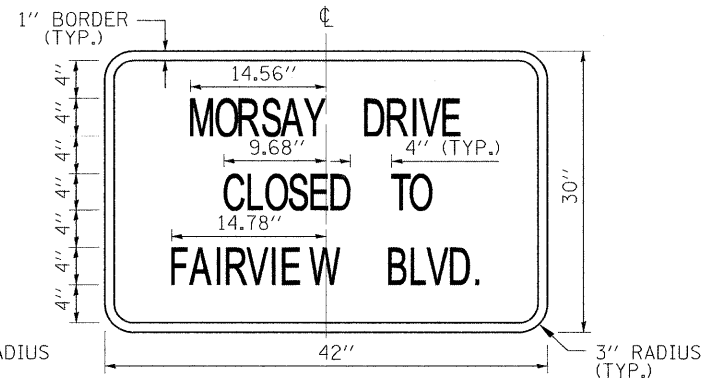
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TYPE Q



(0)
TYPE T



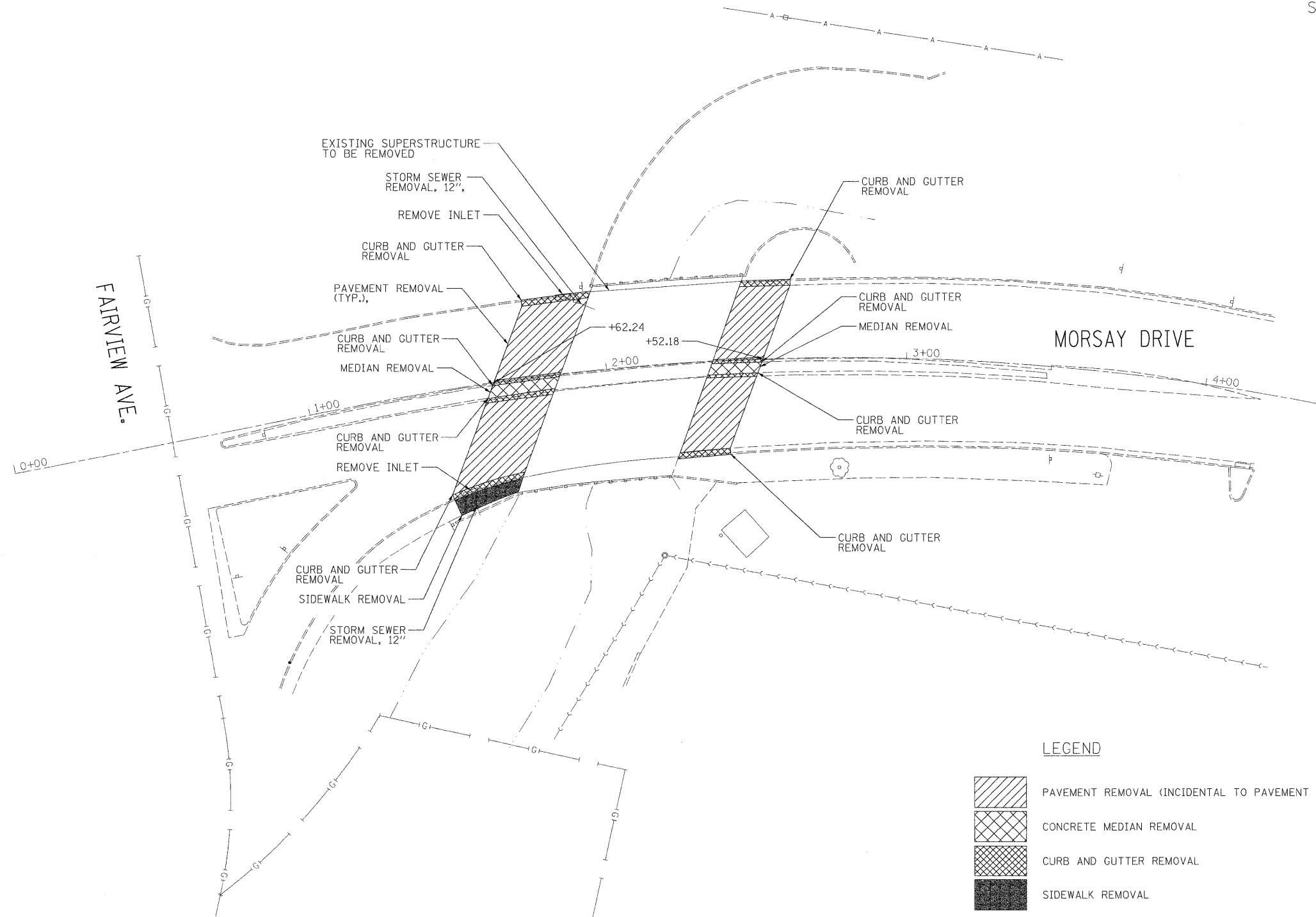
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



TYPE P
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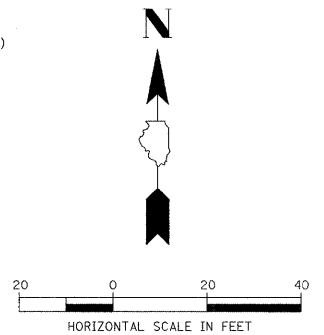
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NOTE:
SEE BRIDGE SHEETS FOR
STRUCTURAL REMOVAL ITEMS.



LEGEND

-  PAVEMENT REMOVAL (INCIDENTAL TO PAVEMENT PATCHING, TYPE IV, 8")
-  CONCRETE MEDIAN REMOVAL
-  CURB AND GUTTER REMOVAL
-  SIDEWALK REMOVAL



LAYOUT: MWH 10/07/09
 DRAWN: MWH 01/20/10
 REVIEWED: DPA 01/20/10

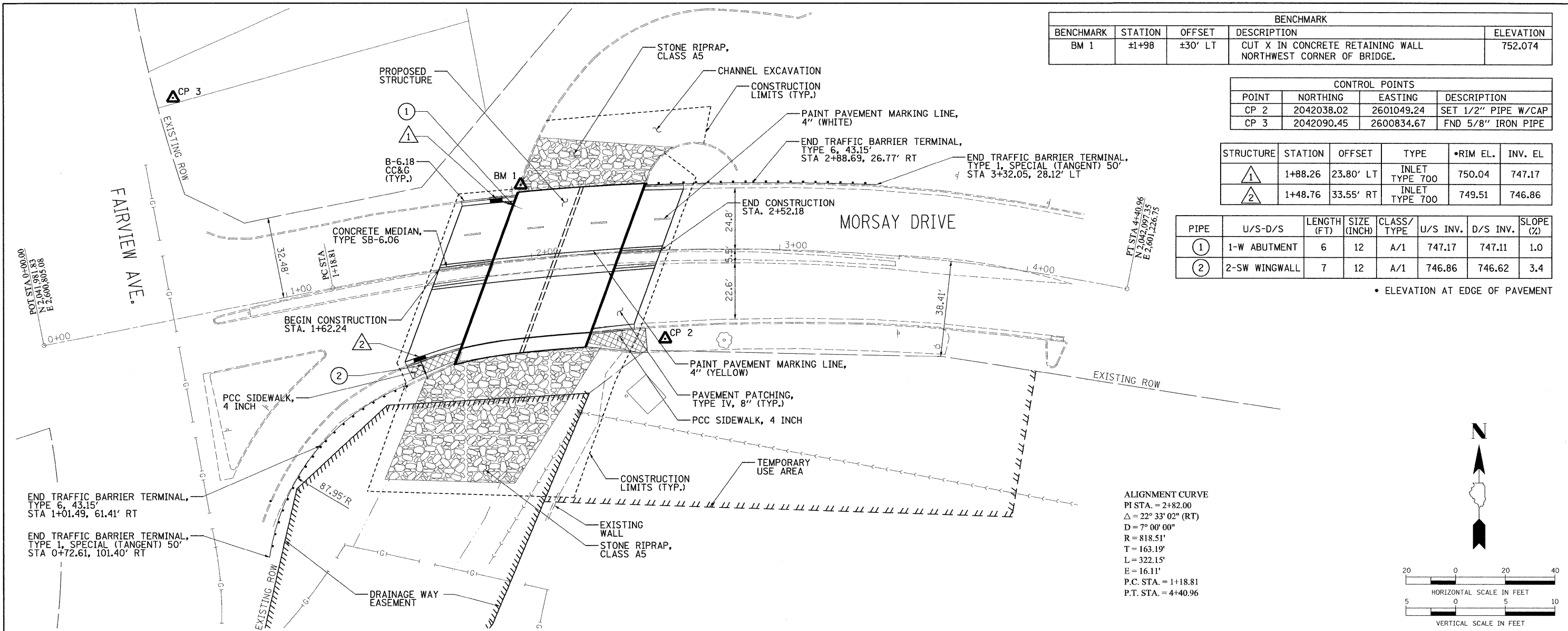
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		CHECKED - DPA	REVISED -
		DATE - 01/20/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
MORSAY DRIVE BRIDGE
ROCKFORD, IL**

SCALE: 1" = 20' SHEET NO. 4 OF 14 SHEETS STA. 0+00 TO STA. 4+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5068	09-00565-00-BR	WINNEBAGO	14	4
CONTRACT NO. 85507				
ILLINOIS FED. AID PROJECT				



BENCHMARK				
BENCHMARK	STATION	OFFSET	DESCRIPTION	ELEVATION
BM 1	±1+98	±30' LT	CUT X IN CONCRETE RETAINING WALL NORTHWEST CORNER OF BRIDGE.	752.074

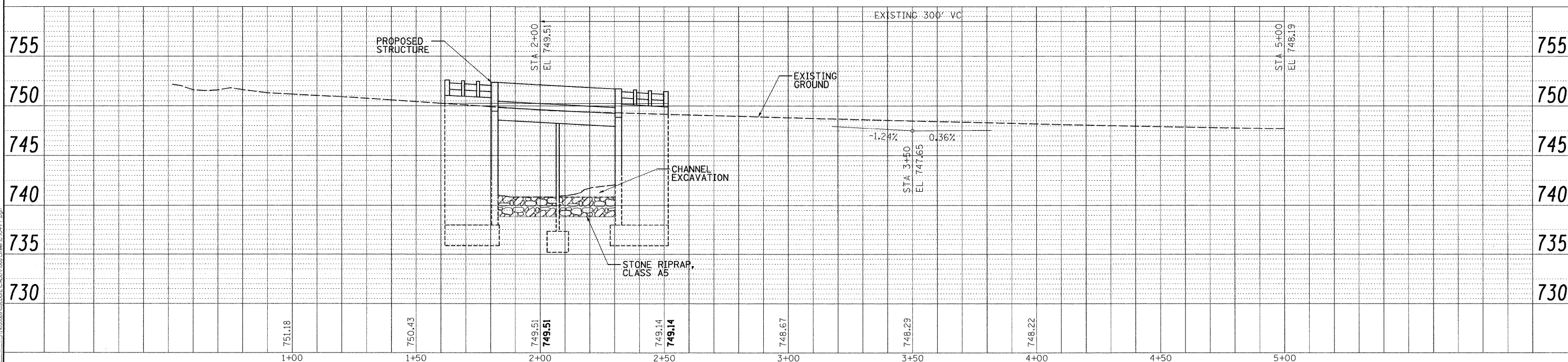
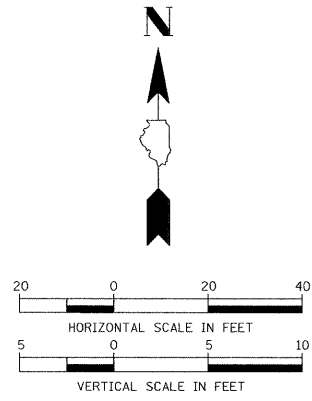
CONTROL POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
CP 2	2042038.02	2601049.24	SET 1/2" PIPE W/CAP
CP 3	2042090.45	2600834.67	FND 5/8" IRON PIPE

STRUCTURE	STATION	OFFSET	TYPE	*RIM EL.	INV. EL.
①	1+88.26	23.80' LT	INLET TYPE 700	750.04	747.17
②	1+48.76	33.55' RT	INLET TYPE 700	749.51	746.86

PIPE	U/S-D/S	LENGTH (FT)	SIZE (INCH)	CLASS/TYPE	U/S INV.	D/S INV.	SLOPE (%)
①	1-W ABUTMENT	6	12	A/1	747.17	747.11	1.0
②	2-SW WINGWALL	7	12	A/1	746.86	746.62	3.4

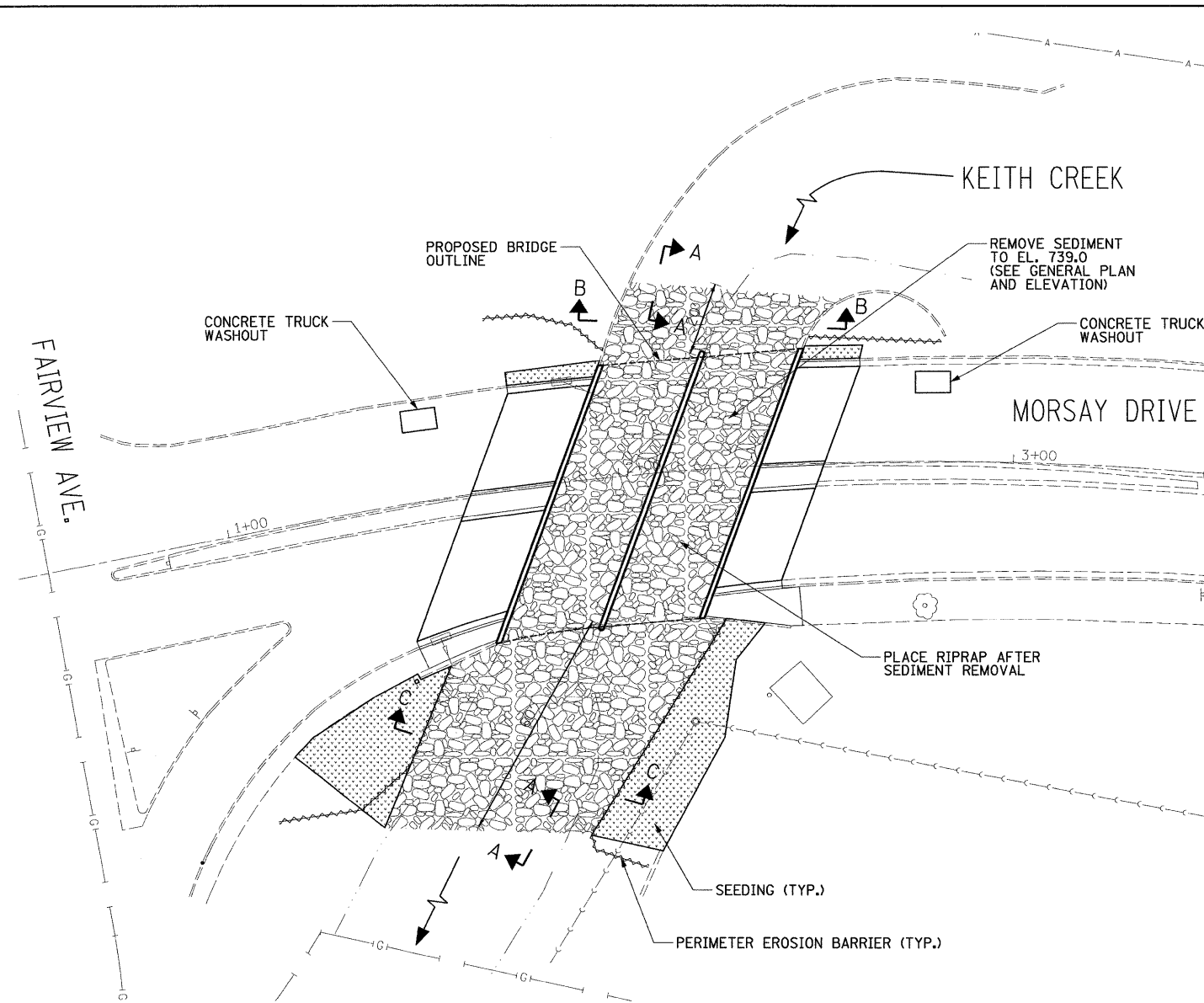
* ELEVATION AT EDGE OF PAVEMENT

ALIGNMENT CURVE
 PI STA. = 2+82.00
 $\Delta = 22^\circ 33' 02''$ (RT)
 $D = 7^\circ 00' 00''$
 $R = 818.51'$
 $T = 163.19'$
 $L = 322.15'$
 $E = 16.11'$
 P.C. STA. = 1+18.81
 P.T. STA. = 4+40.96

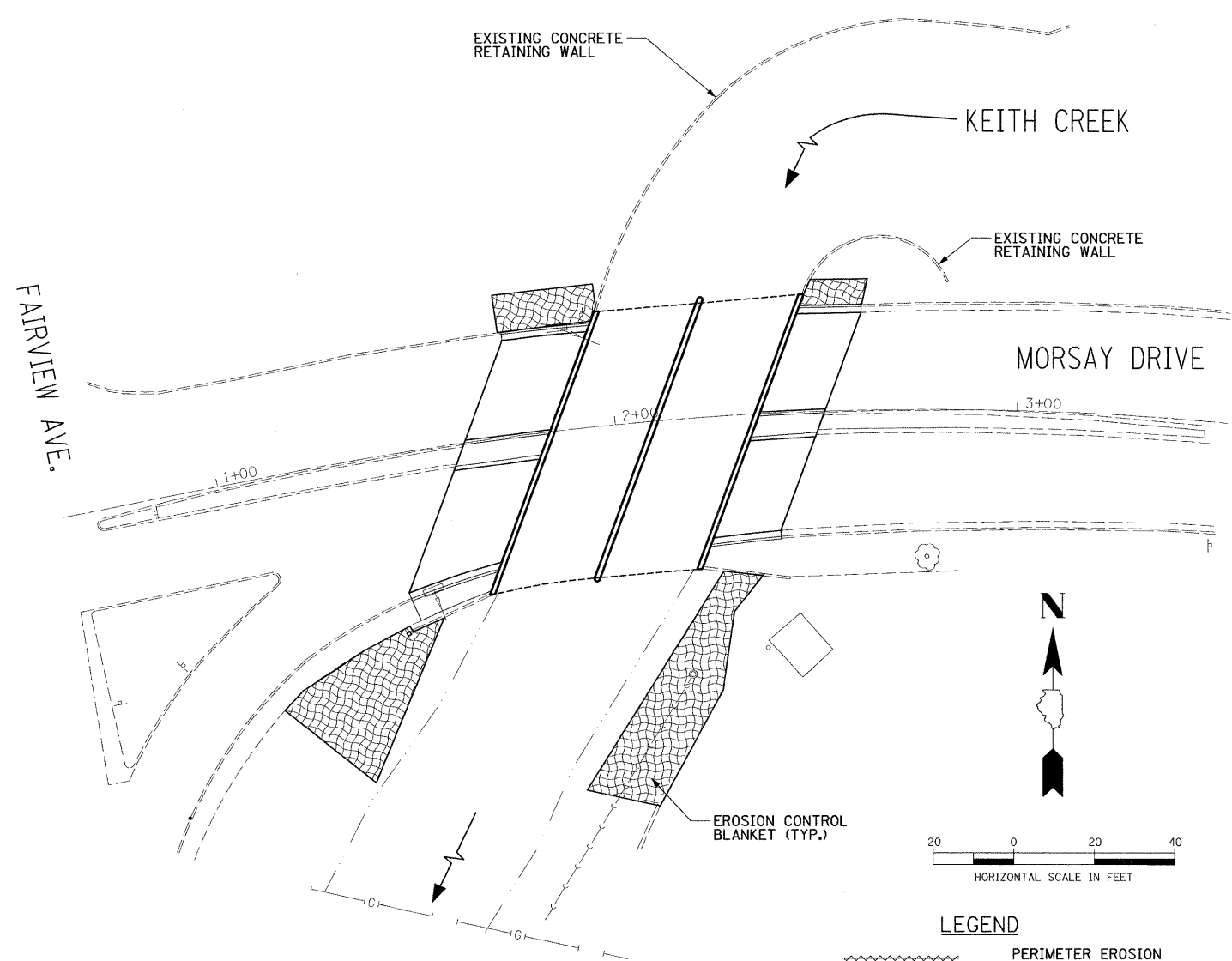


FILE NAME =	USER NAME = Hussain09411	DESIGNED - DPA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE MORSAY DRIVE BRIDGE ROCKFORD, IL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DESIGNED - DPA	DRAWN - MWH	REVISED -	5068			09-00565-00-BR	WINNEBAGO	14	5	
CHECKED - DPA	PLOT SCALE = 20,000 / in.	REVISED -	CONTRACT NO. 85507							
DATE - 01/20/10	PLOT DATE = 02/25/2010	REVISED -	ILLINOIS FED. AID PROJECT							

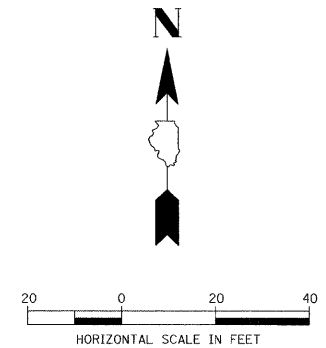
LAYOUT: MWH 01/20/10
 DRAWN: MWH 01/20/10
 CHECKED: DPA 01/20/10
 FILE: I:\09\Jobs\09L\0812\CADD\Road\Sheet\C-104-P.dgn



CONSTRUCTION PHASE

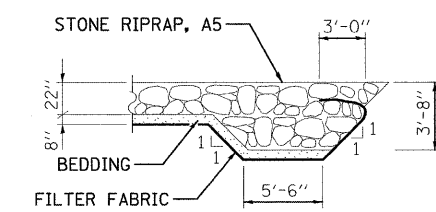


RESTORATION PHASE

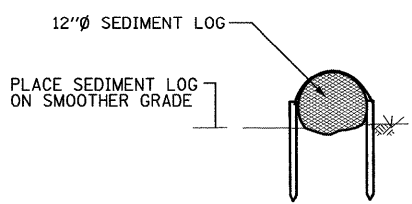


LEGEND

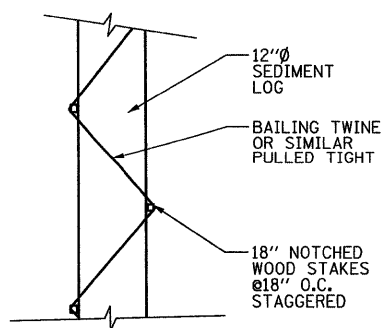
- PERIMETER EROSION BARRIER
- RR5 RIPRAP
- SEEDING
- EROSION CONTROL BLANKET



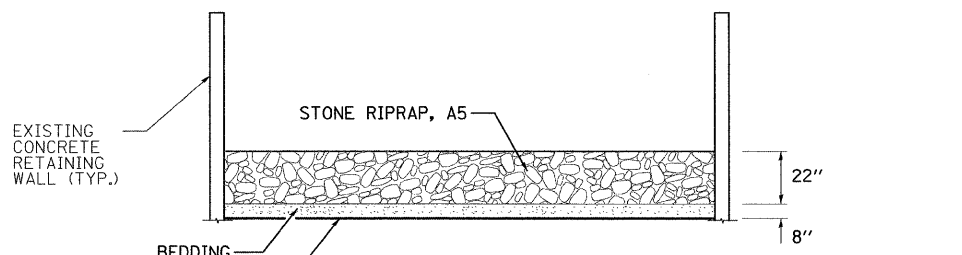
**SECTION A-A
FLANK STONE RIPRAP DETAIL**



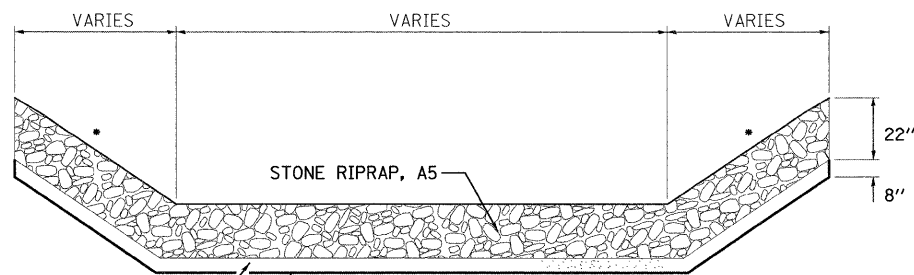
SEDIMENT LOG CROSS SECTION



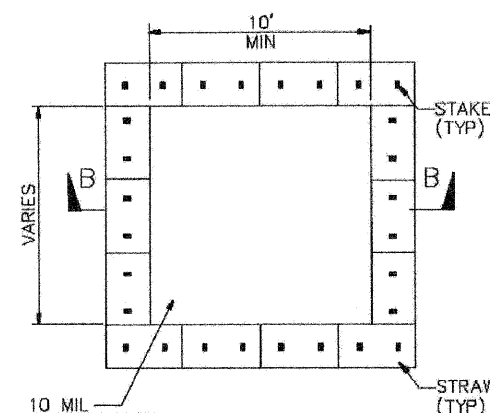
SEDIMENT LOG PLAN VIEW



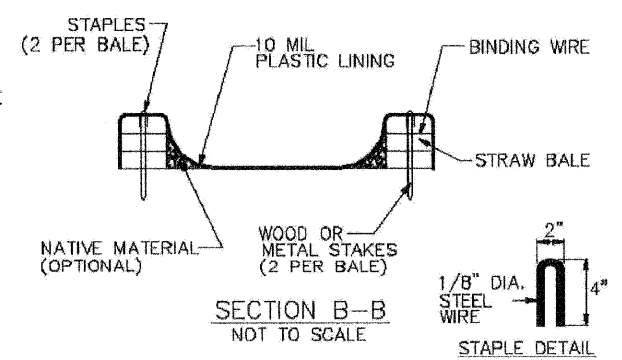
SECTION B-B



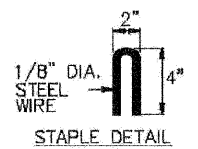
SECTION C-C



**PLAN
NOT TO SCALE**



**SECTION B-B
NOT TO SCALE**



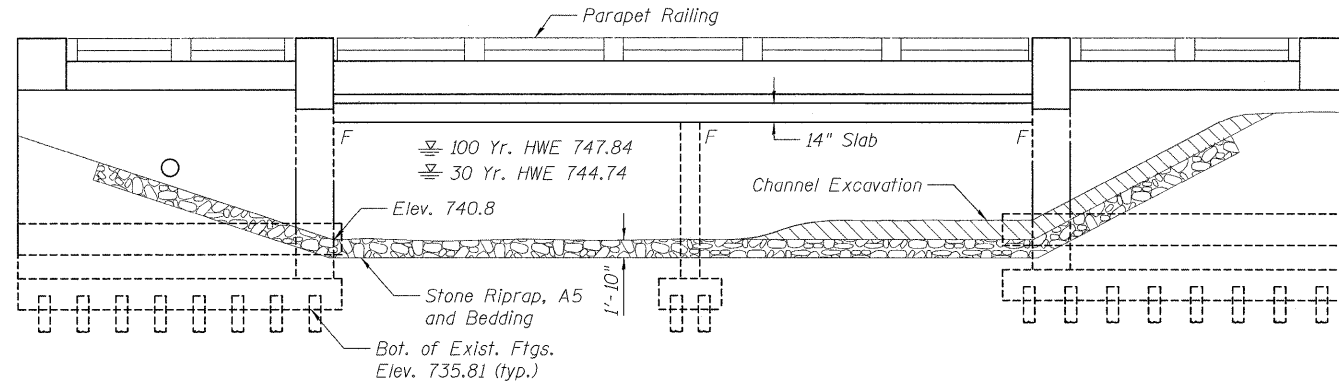
STAPLE DETAIL

FILE NAME = I:\09Jobs\09L\0212\CADD\Road\Sheet\106-EP.dgn	USER NAME = Huss00411	DESIGNED - DPA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN MORSAY DRIVE BRIDGE ROCKFORD, IL	F.A.U. RTE. = 5068	SECTION = 09-00565-00-BR	COUNTY = WINNEBAGO	TOTAL SHEETS = 14	SHEET NO. = 6		
PLOT SCALE = 20,1404' / in.	CHECKED - DPA	REVISOR -	REVISOR -			SCALE: 1" = 20'	SHEET NO. 6 OF 14 SHEETS	STA. 0+00 TO STA. 4+00	CONTRACT NO. 85507			
PLOT DATE = 01/20/2010	DATE = 01/20/10	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT						

B.M. - Top of concrete end post at northwest corner of existing bridge deck. Elev. = 752.07

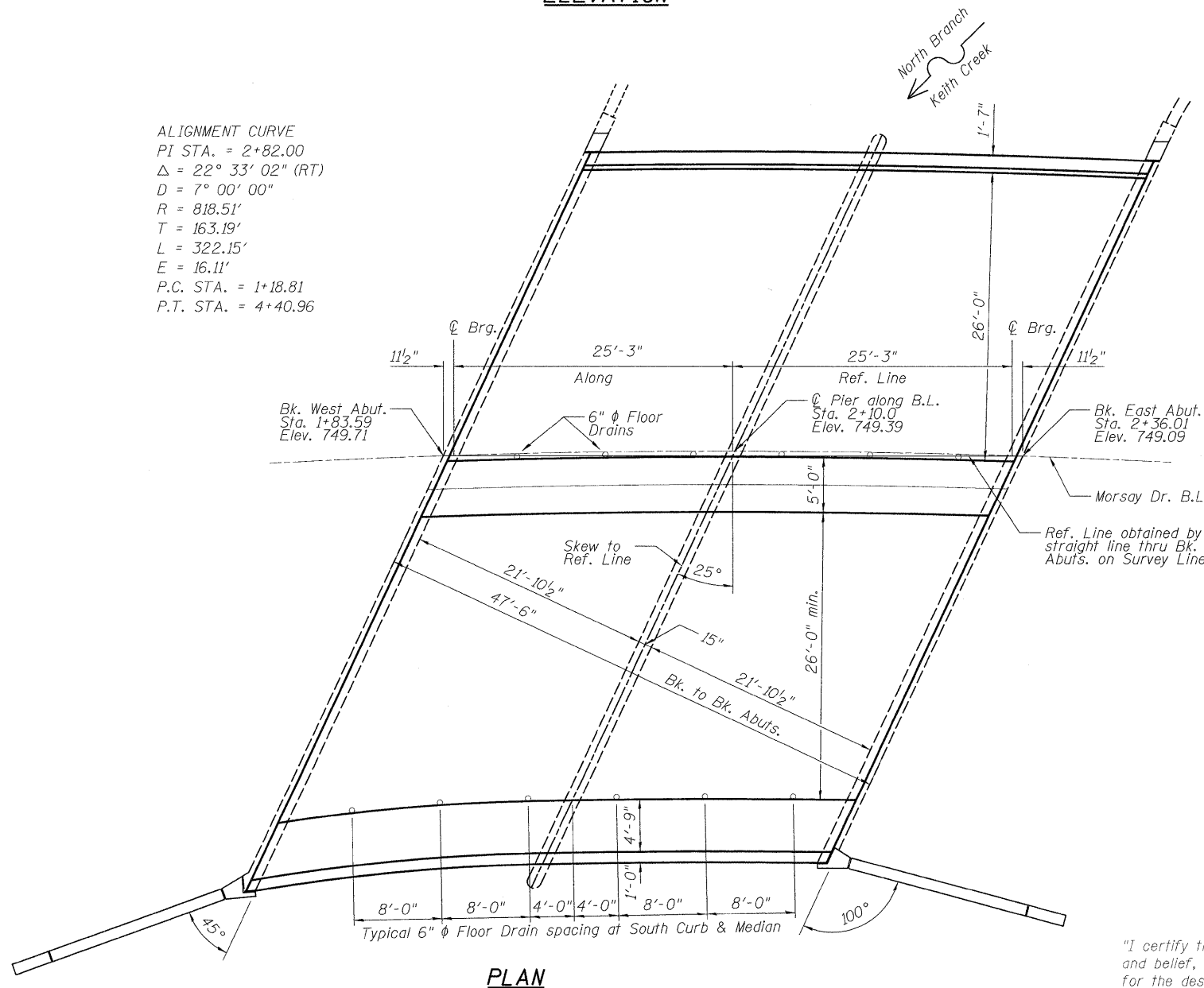
Existing Structure - Structure No. 101-6061 consists of a two-span reinforced concrete slab superstructure on closed concrete abutments and solid wall pier. Existing bridge is approximately 53 ft. long and 65 ft. wide, and is horizontally curved. The bridge was built in 1967 under Section 195-B-CS.

Salvage - Existing Name Plate shall be cleaned and relocated next to new Name Plate.



ELEVATION

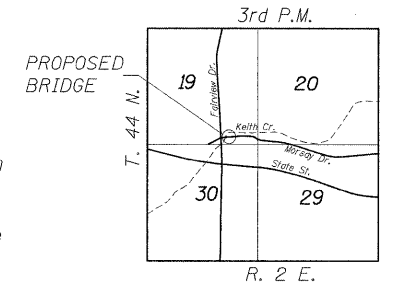
ALIGNMENT CURVE
 PI STA. = 2+82.00
 $\Delta = 22^\circ 33' 02''$ (RT)
 $D = 7^\circ 00' 00''$
 $R = 818.51'$
 $T = 163.19'$
 $L = 322.15'$
 $E = 16.11'$
 P.C. STA. = 1+18.81
 P.T. STA. = 4+40.96



PLAN

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



LOCATION SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO LFD Bridge Design Specifications - 17th edition

LOADING HS-20

Allow 50 #/sq. ft. for future wearing surface.

DESIGN STRESSES

New Super: $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.
 Existing Sub: $f'_c = 3,500$ p.s.i.
 $f_y = 40,000$ p.s.i.

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.035g
 Site Coefficient (s) = 1.0

DESIGN SCOUR ELEVATION TABLE

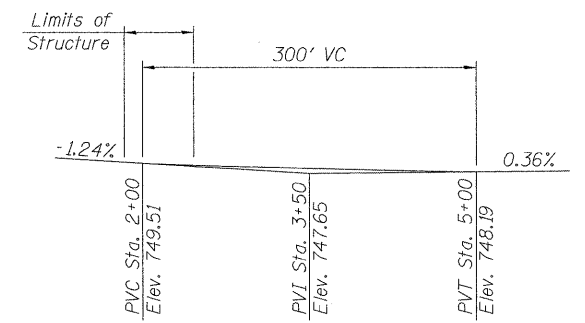
Design Scour Elevation (ft.)	S. Abut.	Pier 1	N. Abut.
	735.5	735.5	735.5

WATERWAY INFORMATION

Drainage Area = 6.6 Sq. Mi.		Low Grade Elev. = 749.09					
Flood Yr.	Freq.	Q C.F.S.	Opening Exist. Sq. Ft.	Prop. Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	30	370	153	153	744.7	0.04 0.04	744.74 744.74
Base	100	1280	279	279	747.7	0.14 0.14	747.84 747.84

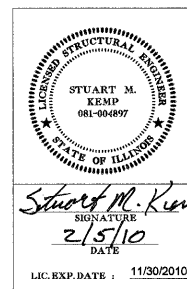
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Superstructure	L. Sum	1		1
Structure Excavation (Special)	Cu. Yd.		258	258
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.		4.8	4.8
Concrete Superstructure	Cu. Yd.	170.5		170.5
Bridge Deck Grooving	Sq. Yd.	275		275
Protective Coat	Sq. Yd.	411	17	428
Reinforcement Bars, Epoxy Coated	Lbs.	36,970	600	37,570
Parapet Railing	Foot	102.2	32.3	134.5
Name Plates	Each	1		1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		110	110
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.		20	20
Drill and Grout Bars	Each		92	92



PROFILE GRADE
Morsay Drive

**NORTH KEITH CREEK
 BUILT 1967 BY
 CITY OF ROCKFORD
 RE-BUILT 20...
 SECTION 09-00565-00-BR
 STATION 2+10
 STR. NO. 101-6061 LOADING HS20**



LETTERING FOR NAME PLATE

Existing Name Plate shall be cleaned and relocated next to new Name Plate, Cost included with Name Plates.
 (See Std. 515001 for location)

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges.'"

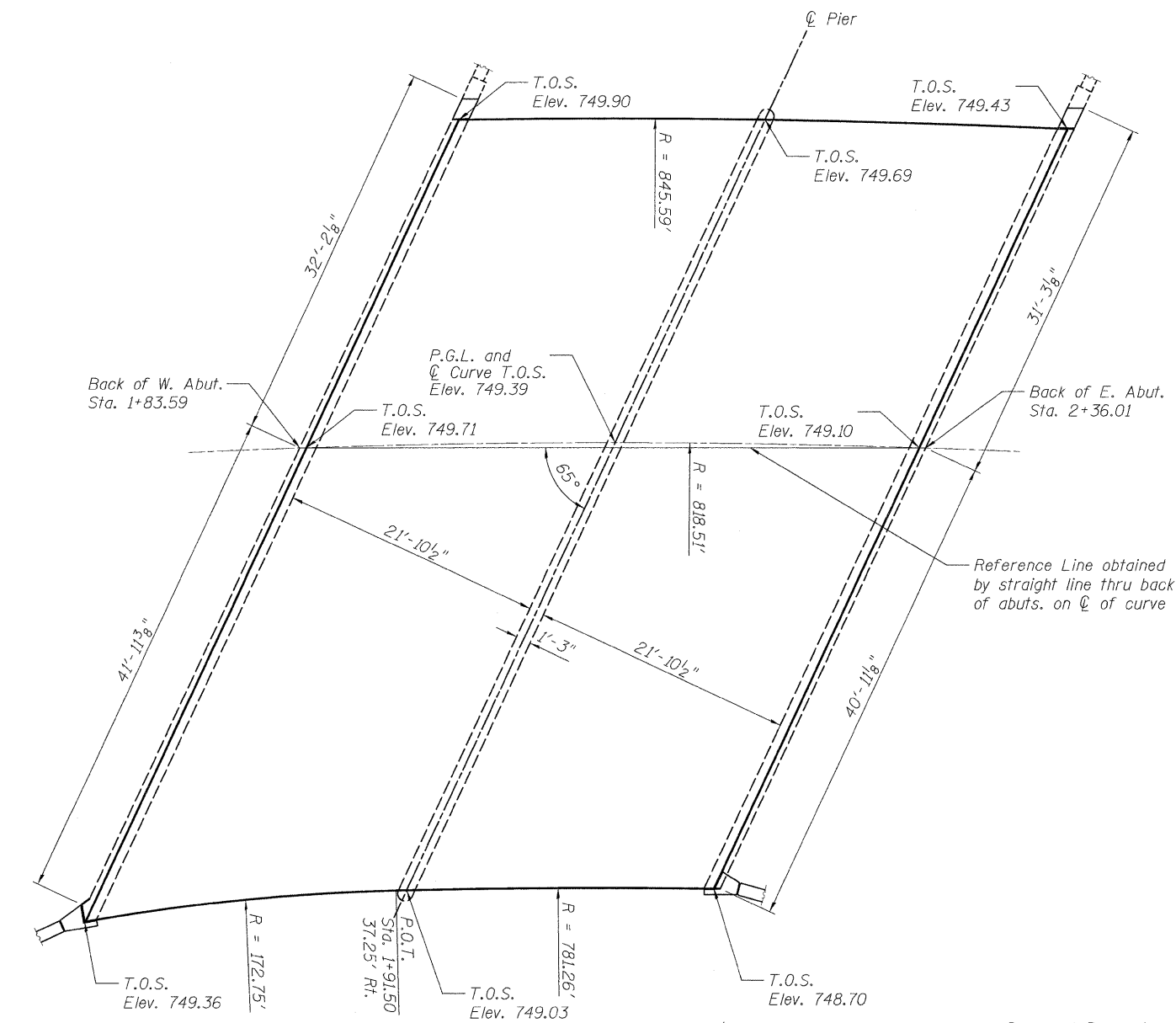
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HANSON
 SHEET NO. 1
 8 SHEETS
 FAU SECTION COUNTY TOTAL SHEETS SHEET NO.
 5068 09-00565-00-BR WINNEBAGO 14 7
 CONTRACT NO. 85507
 FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT

GENERAL PLAN AND ELEVATION
MORSAY DRIVE BRIDGE
OVER NORTH BRANCH OF KEITH CREEK
FAU 5068
SEC. 09-00565-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 2+10
STRUCTURE NO. 101-6061

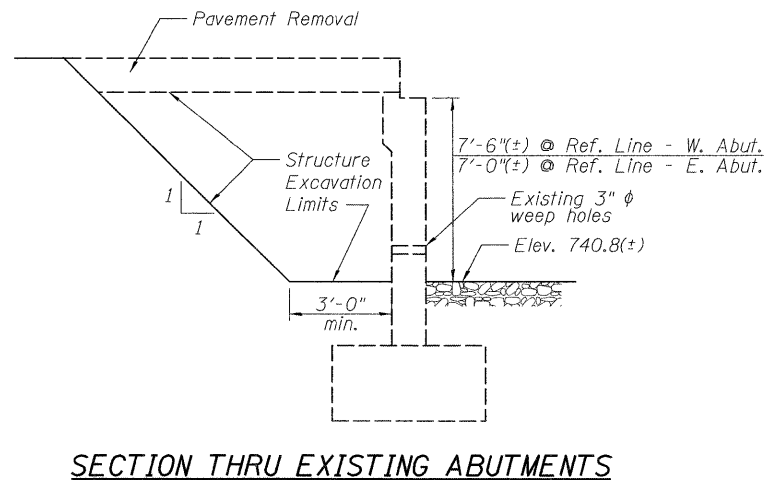
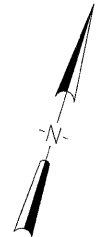
02.05.2010
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 DRAWN: JOM 11/20/09
 REVIEWED: SWK 11/20/09

01/28/2010
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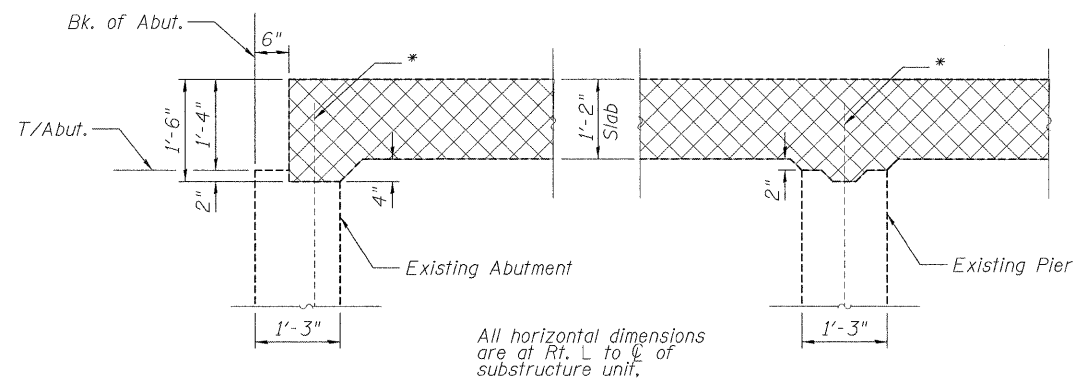
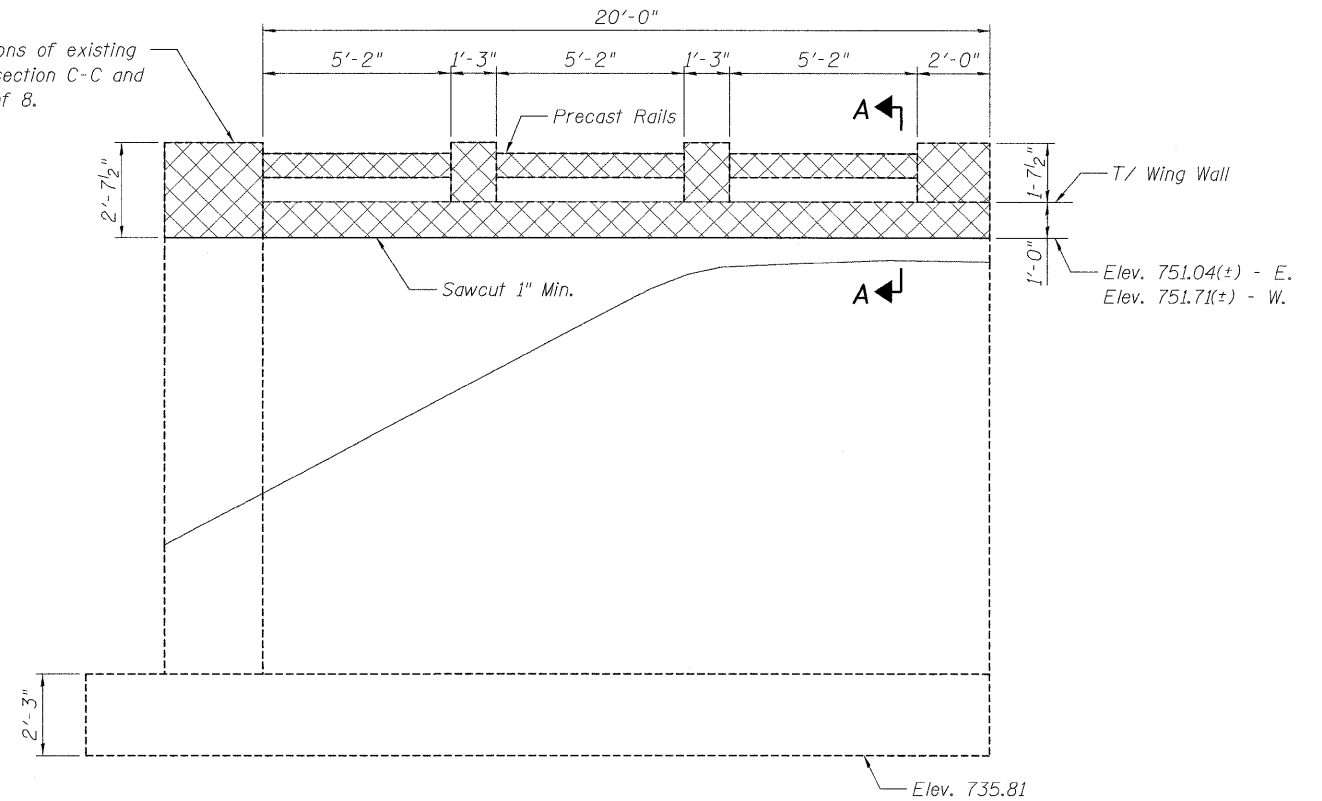
LAYOUT	SKK	10/21/09
DRAWN	JDM	11/20/09
REVIEWED	SKK	11/20/09



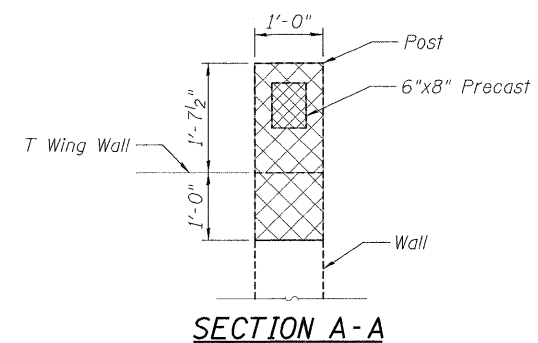
Note:
Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.



For cross sections of existing end posts see section C-C and D-D on Sht 7 of 8.

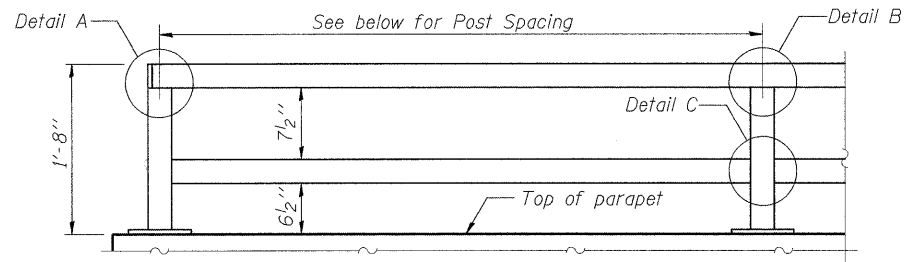


* Existing reinforcement shall be cleaned and incorporated into the new construction.
Cost included with Removal of Existing Superstructure.

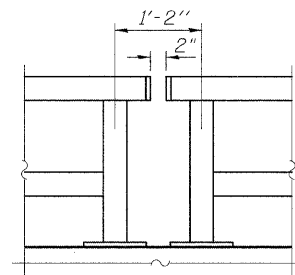


GEOMETRIC LAYOUT AND REMOVAL PLAN
 MORSAY DRIVE BRIDGE
 OVER NORTH BRANCH OF KEITH CREEK
 FAU 5068
 SEC. 09-00565-00-BR
 WINNEBAGO COUNTY, ILLINOIS
 STATION 2+10
 STRUCTURE NO. 101-6061

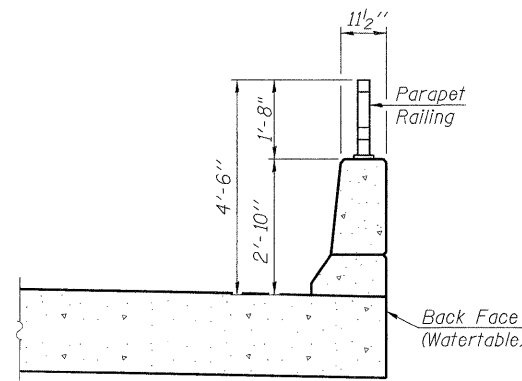
09L0012	01/28/10	Corporate License Number 184-001-084	© Copyright Hanson Professional Services Inc. 2009	SHEET NO. 2		FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				8 SHEETS	5068	09-00565-00-BR	WINNEBAGO	14	8	
				FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 85507			



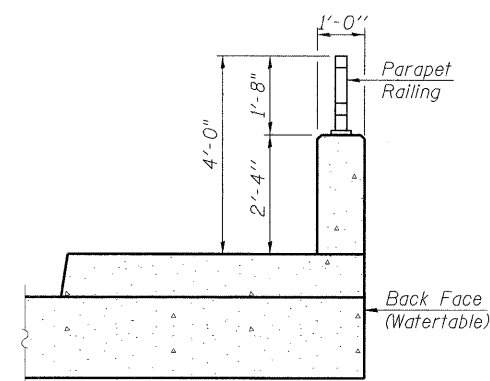
**PARAPET RAILING
ELEVATION**



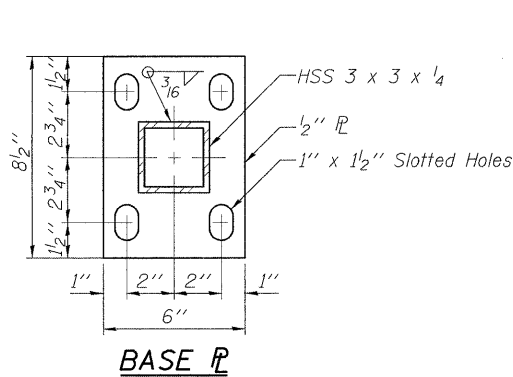
**PARAPET RAILING
ELEVATION AT JOINT**



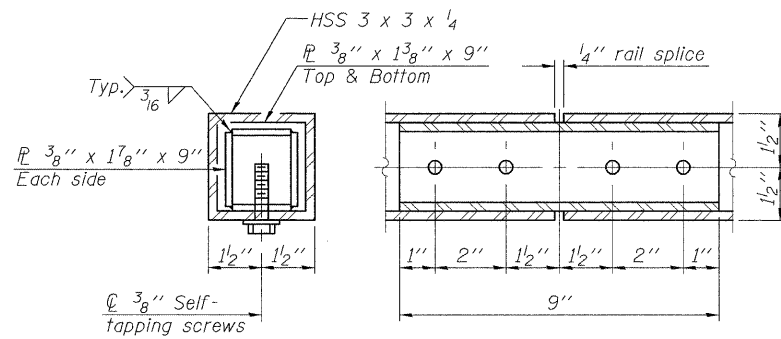
SECTION THRU N. PARAPET



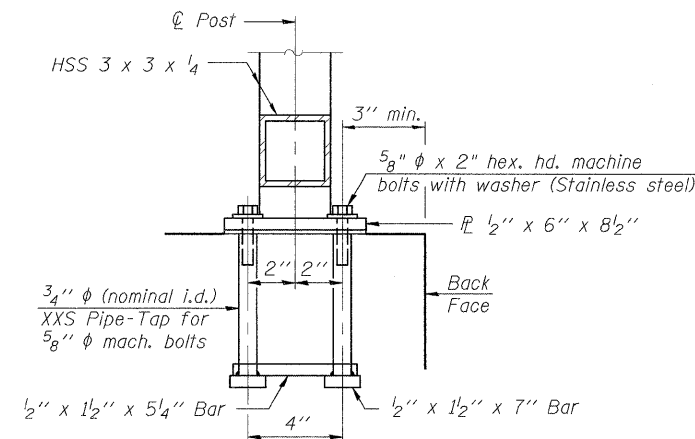
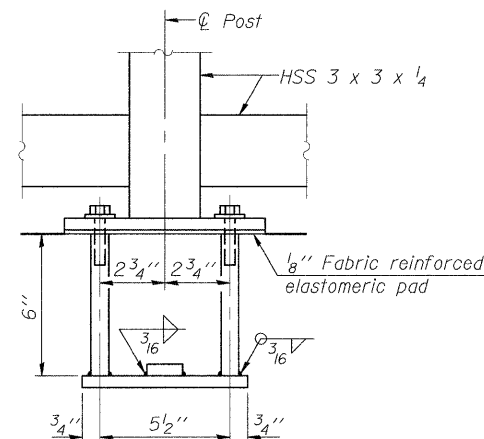
SECTION THRU SIDEWALK



BASE PL



RAIL SPLICE

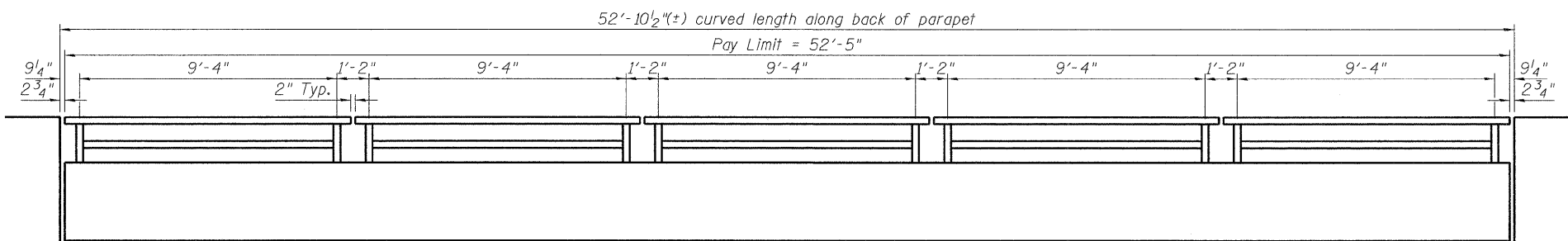


ANCHOR BOLT DETAILS

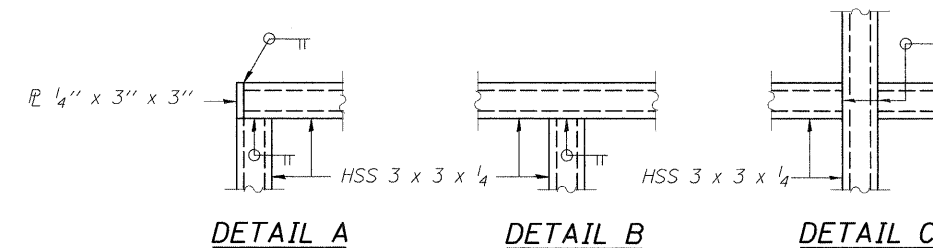
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" phi anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	102.2



INSIDE ELEVATION OF SOUTH PARAPET RAILING

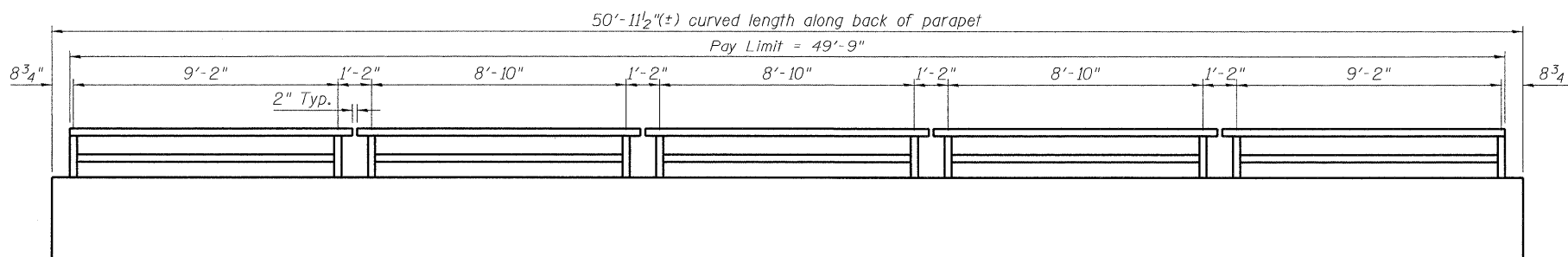


DETAIL A

DETAIL B

DETAIL C

- NOTES:
- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 - For Wing Wall rail post spacing see Sht. 7 of 8.

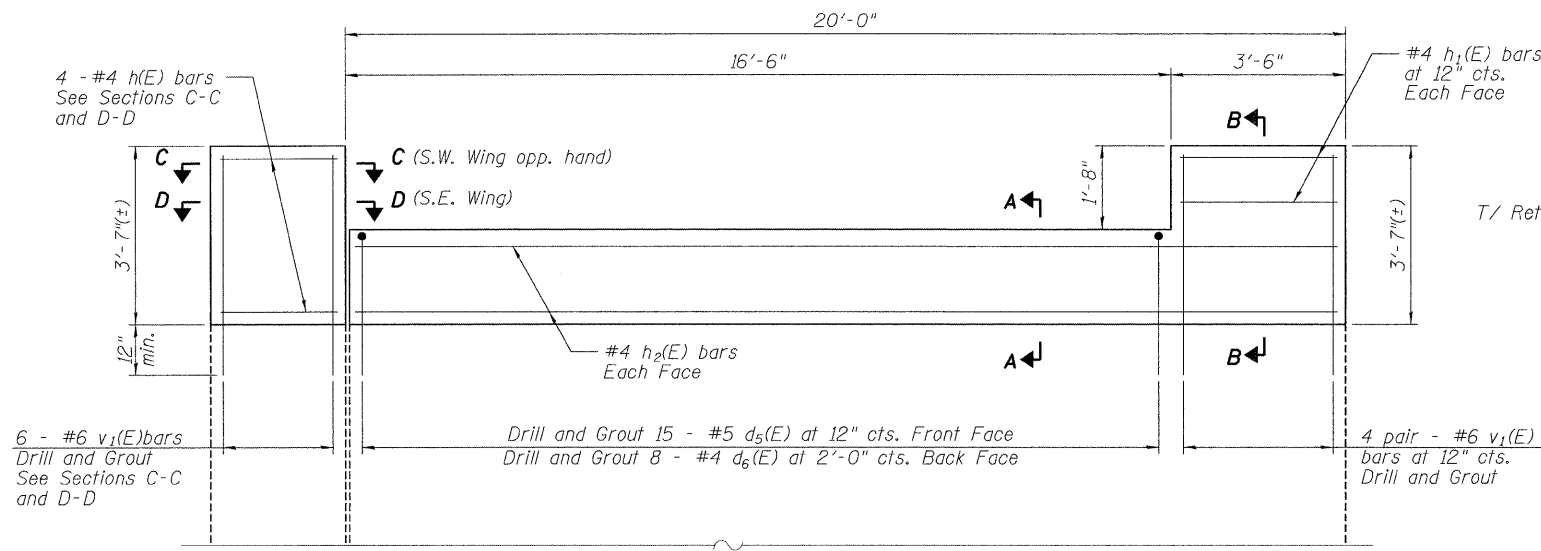


INSIDE ELEVATION OF NORTH PARAPET RAILING

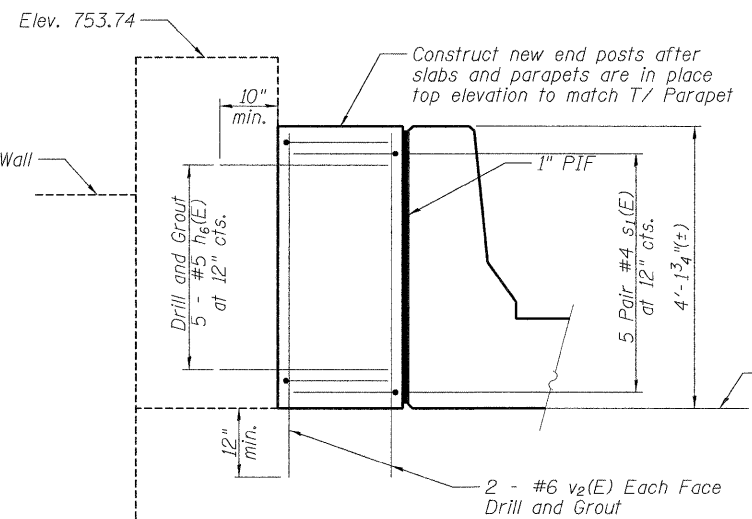
PARAPET RAILING DETAILS
MORSAY DRIVE BRIDGE
OVER NORTH BRANCH OF KEITH CREEK
FAU 5068
SEC. 09-00565-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 2+10
STRUCTURE NO. 101-6061

DATE 01/28/10	Corporate License Number: IS4-001-084 © Copyright Hanson Professional Services Inc. 2009 HANSON	SHEET NO. 6 8 SHEETS	FAU 5068	SECTION 09-00565-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 14	SHEET NO. 12
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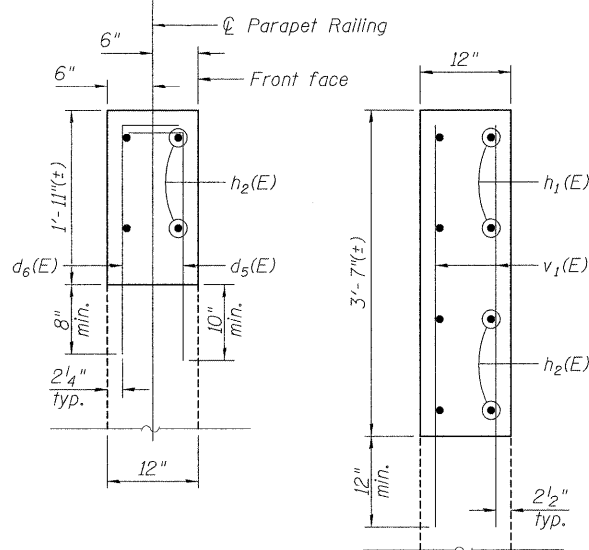
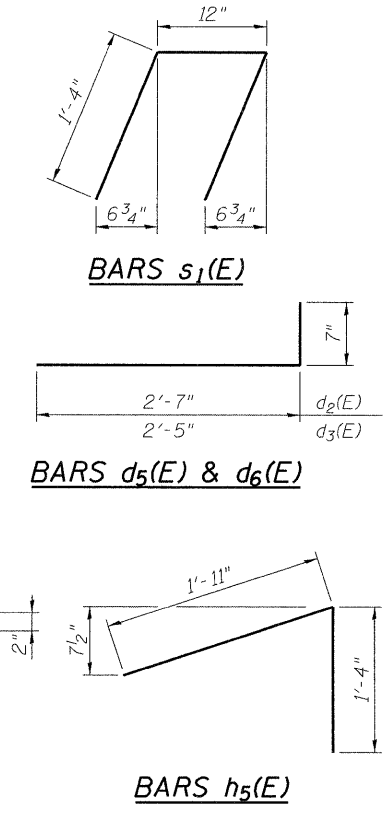
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 DRAWN: JDM 11/20/09
 REVIEWED: SKM 11/20/09



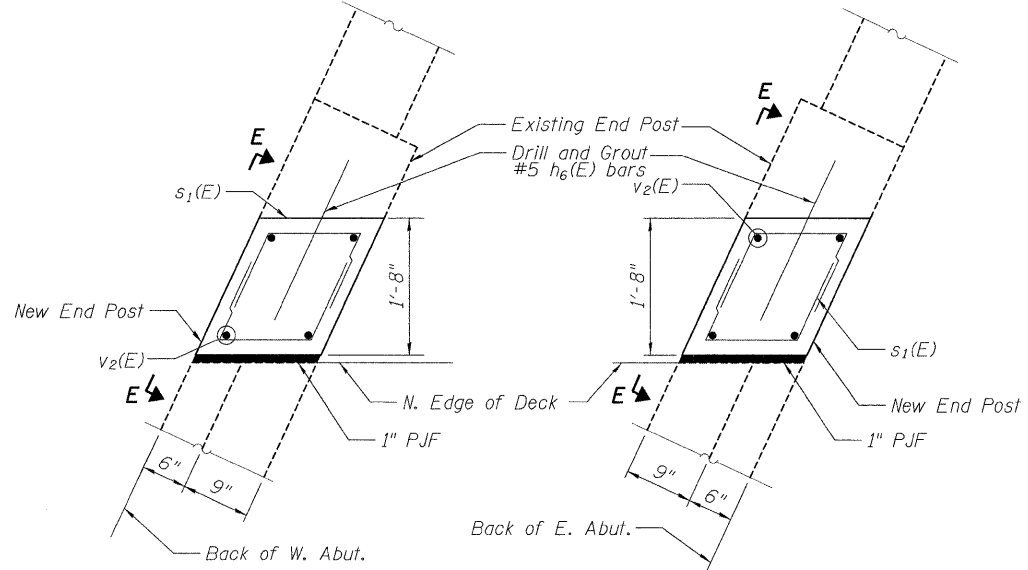
ELEVATION - S.E. WING WALL
(S.W. Wing opp. hand)



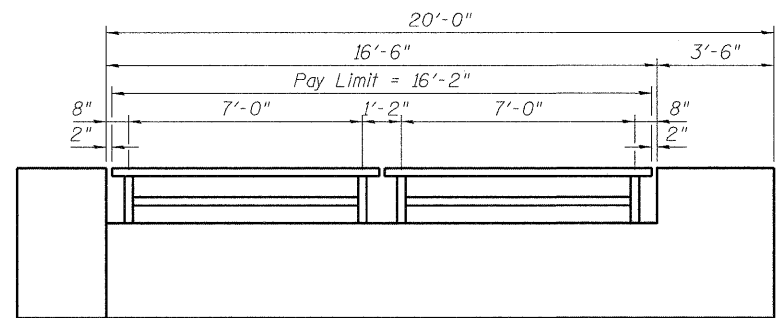
VIEW E-E



SECTION A-A **SECTION B-B**



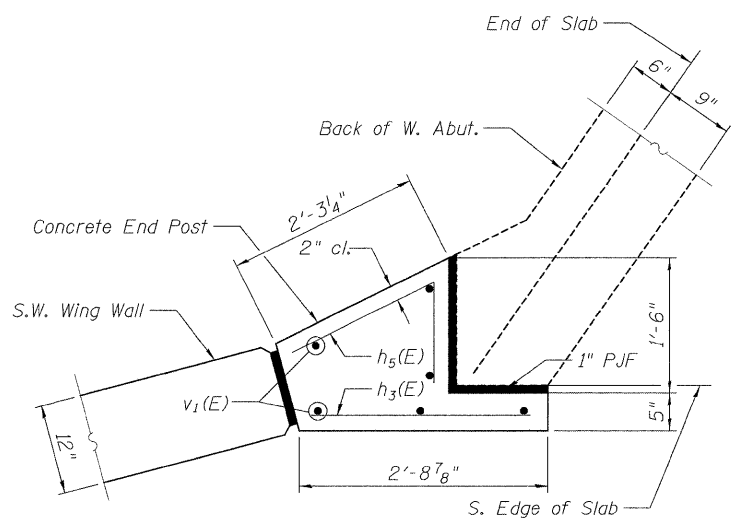
PLAN - NORTH END POSTS



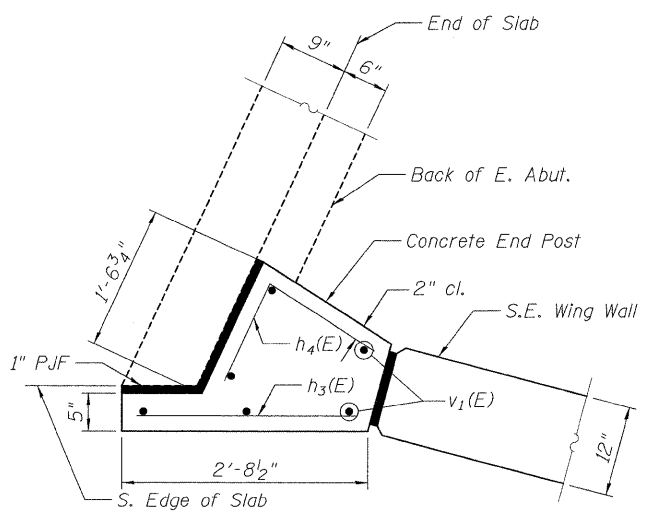
ELEVATION - S.E. WING WALL RAIL
(S.W. Rail opp. hand)

WINGWALL AND END POST
BILL OF MATERIAL
(Two Wings)

Bar	No.	Size	Length	Shape
d5(E)	30	#5	3'-2"	—
d6(E)	16	#4	3'-0"	—
h1(E)	8	#4	3'-2"	—
h2(E)	8	#4	19'-8"	—
h3(E)	8	#4	2'-5"	—
h4(E)	4	#4	2'-8"	∧
h5(E)	4	#4	3'-3"	∧
h6(E)	10	#5	1'-10"	—
s1(E)	20	#4	3'-8"	⌊
v1(E)	28	#6	4'-5"	—
v2(E)	8	#6	5'-0"	—
Concrete Structures	Cu. Yds.	4.8		
Reinforcement Bars, Epoxy Coated	lbs.	600		
Drill and Grout Bars	Each	92		
Parapet Railing	Foot	32.3		



SECTION C-C
(S.W. End Post)



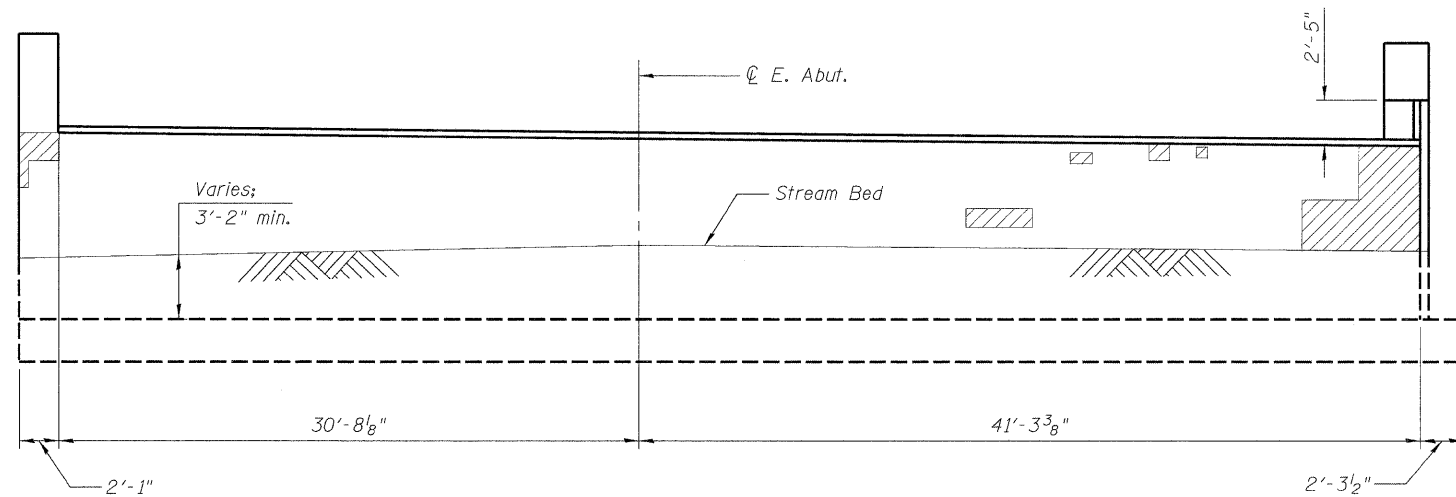
SECTION D-D
(S.E. End Post)

WING WALLS AND END POSTS
MORSAY DRIVE BRIDGE
OVER NORTH BRANCH OF KEITH CREEK
FAU 5068
SEC. 09-00565-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 2+10
STRUCTURE NO. 101-6061

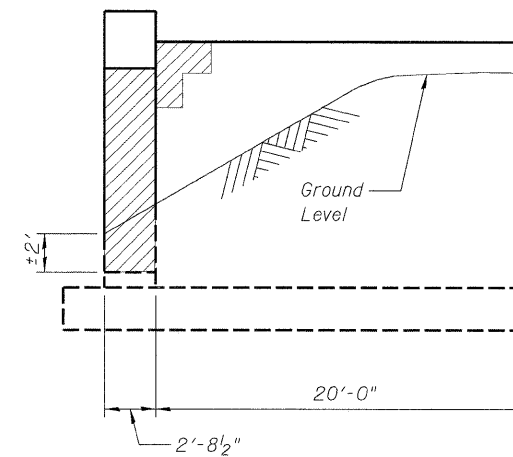
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DATE 01/28/10
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HANSON

SHEET NO. 7	FAU 5068	SECTION 09-00565-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 14	SHEET NO. 13
B SHEETS					
CONTRACT NO. 85507					
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					

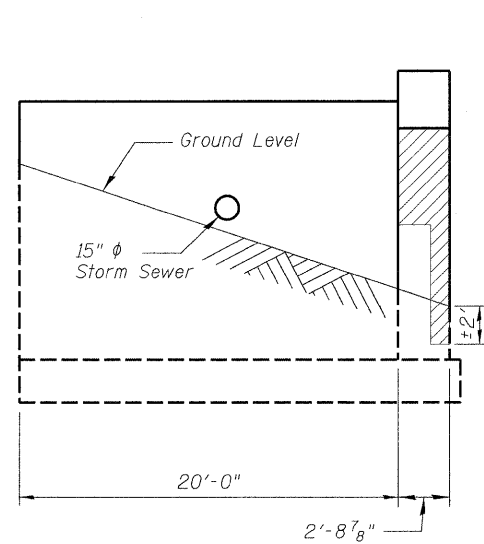
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 DRAWN JDM 11/20/09
 REVIEWED SMK 11/20/09



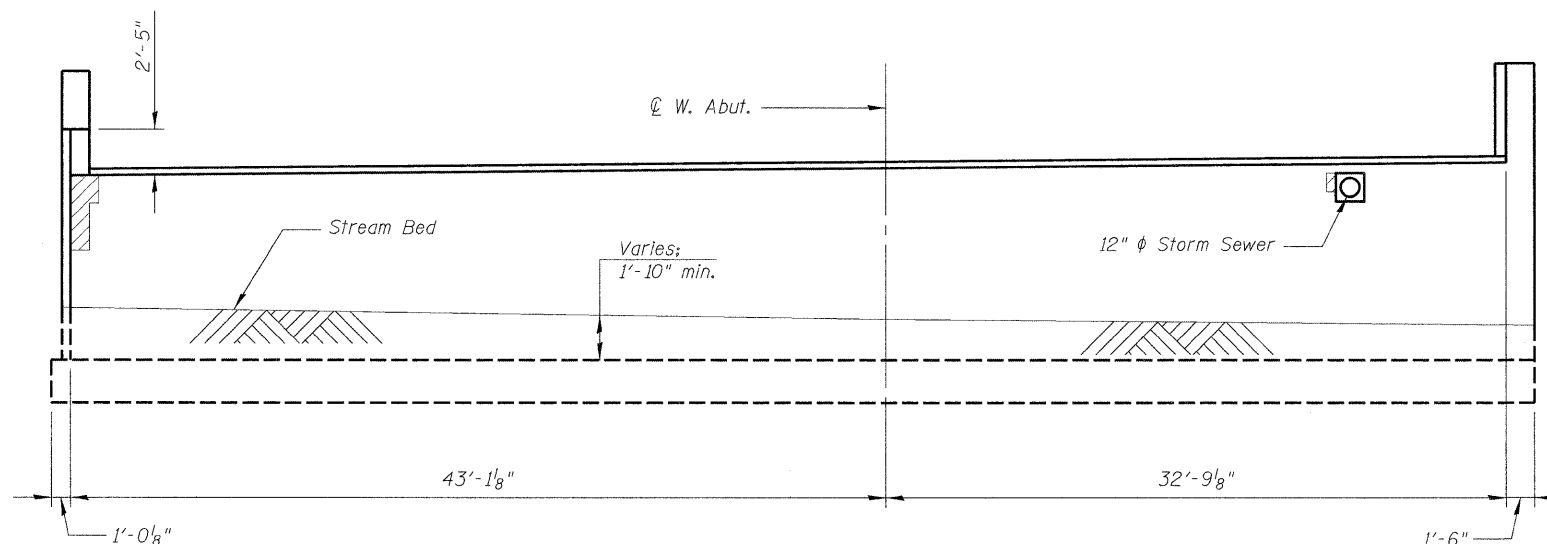
EAST ABUTMENT ELEVATION
Total Delaminated Area = 90 Sq. Ft.



SE WINGWALL ELEVATION



SW WINGWALL ELEVATION



WEST ABUTMENT ELEVATION
Total Delaminated Area = 40 Sq. Ft.

LEGEND

Delaminated Area

ABUTMENT CONCRETE REPAIRS
MORSAY DRIVE BRIDGE
OVER NORTH BRANCH OF KEITH CREEK
FAU 5068
SEC. 09-00565-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 2+10
STRUCTURE NO. 101-6061

JOB NO. 09L0012	DATE 01/28/10	FAU 5068	SECTION 09-00565-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 14	SHEET NO. 14
SHEET NO. 8				CONTRACT NO. 85507		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT						



01/28/2010
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