

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
HIGHWAY BRIDGE PROGRAM
F.A.U. ROUTE 5958 (OTTAWA AVENUE)
SECTION 07-00137-00-BR
PROJECT BRM-5047 (009)
GRUNDY COUNTY
C-93-099-10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5958	07-00137-00-BR	GRUNDY	11	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 87463		

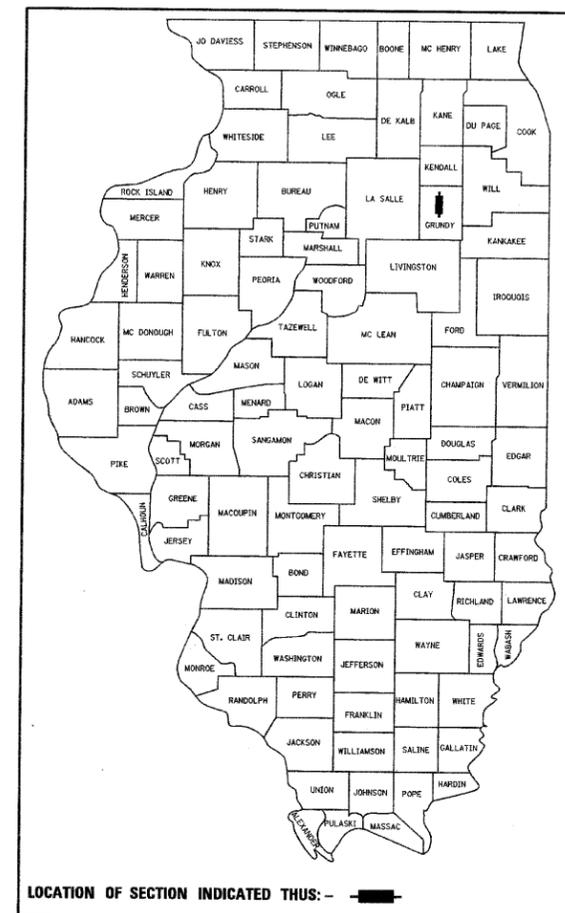
EXISTING STRUCTURE NO. 032-7006

INDEX OF SHEETS

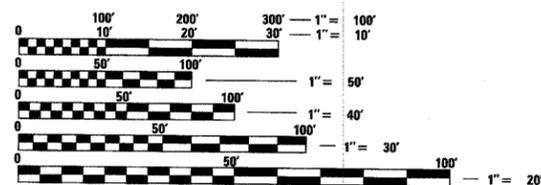
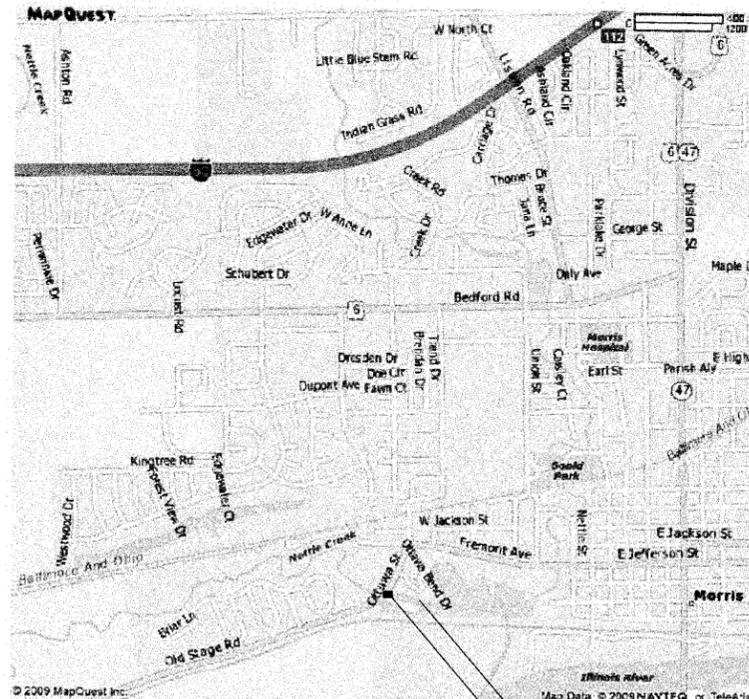
- COVER SHEET
- GENERAL NOTES AND TRAFFIC CONTROL
- SUMMARY OF QUANTITIES
- PLAN AND PROFILE
- GENERAL PLAN AND ELEVATION
- SUPERSTRUCTURE DETAILS
7. - 8. PPC DECK BEAM DETAILS
- FOUNDATION DETAILS
- RAILING DETAILS
- SANITARY SEWER CREEK CROSSING REMOVAL AND REPLACEMENT

HIGHWAY STANDARDS

- | | |
|-----------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 442201-03 | CLASS C AND D PATCHES |
| 515001-03 | NAME PLATE FOR BRIDGES |
| 668001-01 | U.S. GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS, RESETTING METHOD |
| 701801-04 | LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 780001-02 | TYPICAL PAVEMENT MARKINGS |
| BLR 21-8 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| BLR 22-6 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC) |



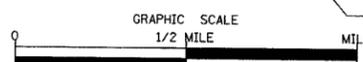
FAU 5958 (OTTAWA AVENUE)
FUNCTION CLASSIFICATION: MINOR ARTERIAL
ADT= 2975 (2010)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 87463



NET LENGTH OF SECTION 123.16' (0.023 MILES)
GROSS LENGTH OF SECTION 123.16' (0.023 MILES)

PROPOSED IMPROVEMENT
REMOVAL OF EXISTING PRECAST CONCRETE BRIDGE SLAB AND REPLACEMENT WITH PRECAST, PRESTRESSED DECK BEAMS. THREE SPANS AT 38'+/- 115'-2" BK TO BK OF ABUTMENTS 47'-0" OUT TO OUT OF DECK 30° RT FWD SKEW

SANITARY SEWER REPLACEMENT

PROJECT LOCATION
BEGIN IMPROVEMENTS STA. 9+18.42
END IMPROVEMENTS STA. 10+41.58



signature
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 7-16 20 10
[Signature] GRUNDY COUNTY ENGINEER
[Signature] MAYOR, CITY OF MORRIS

PASSED 7-16 20 10
[Signature] DISTRICT 3 IMPLEMENTATION ENGINEER

RELEASED FOR BID BASED ON LIMITED REVIEW 7-16 20 10
[Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

JAMES K CLINARD
CHAMLIN & ASSOCIATES
815.223.3344

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ALL ELEVATIONS REFERRING TO U. S. G. S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375 GAL / SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	0.08 GAL / SQ YD
POLYMERIZED BIT MATERIALS (PRIME COAT)	0.10 GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FDG COAT"	0.08 GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FDG COAT"	0.05 GAL / SQ YD
AGGREGATE PRIME COAT	0.002 TONS / SQ YD
HMA RESURFACING	112 LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10 FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003 TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005 TONS / SQ YD
SUPPLEMENTAL WATERING	3 GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2 LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5 TONS AGGREGATE

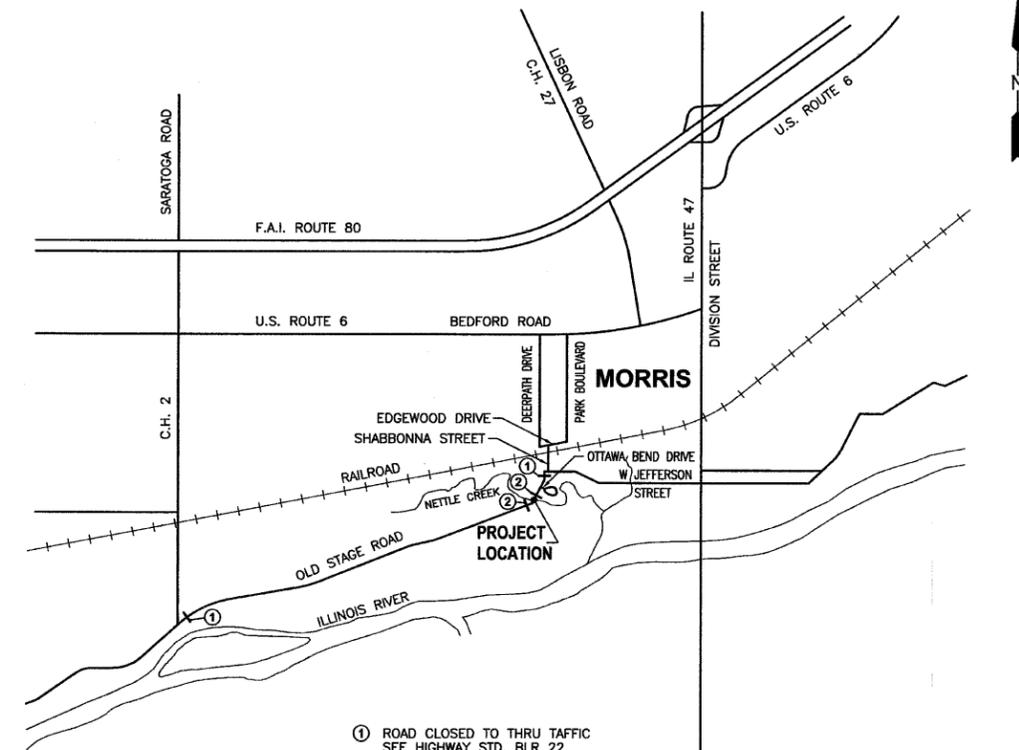
THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- ATT
- COMED
- COMCAST
- MC1
- CITY OF MORRIS
- NICOR

	HMA BINDER (PATCHES)	HMA SURFACE
PG GRADE **	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 19.5
FRICITION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	CORES	SATISFACTION OF ENGINEER

** WHEN RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE (i.e. 25% RAP WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO A PG58-22).



① ROAD CLOSED TO THRU TRAFFIC SEE HIGHWAY STD. BLR 22

② ROAD CLOSED SEE HIGHWAY STD. BLR 21

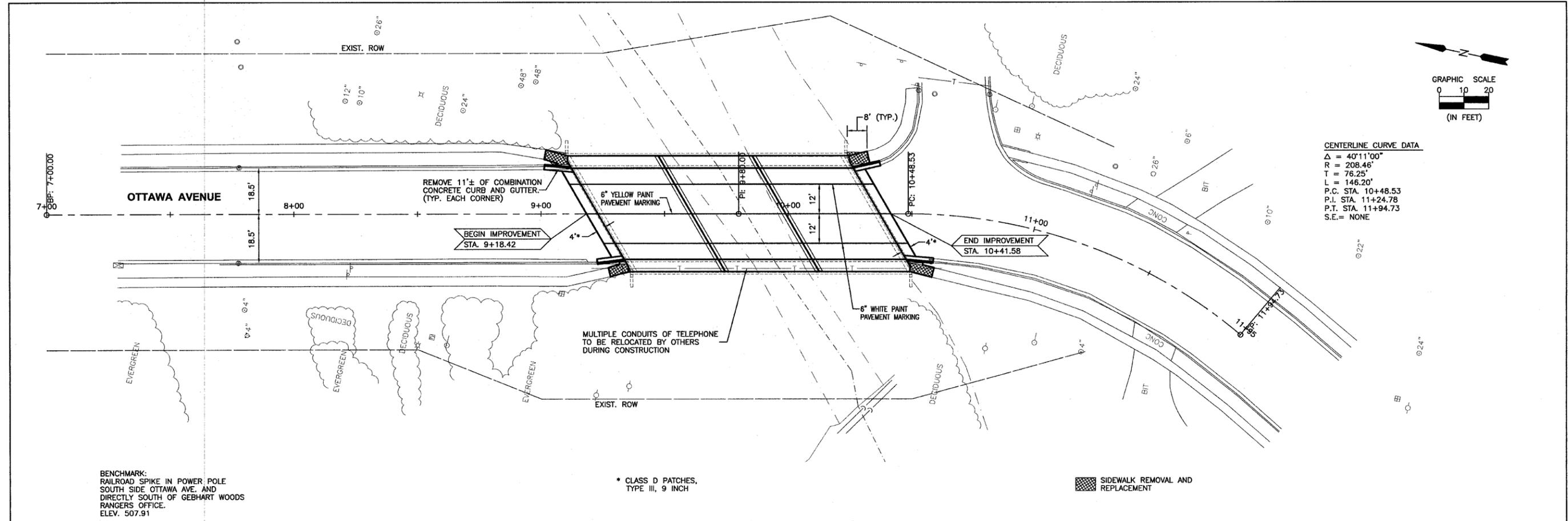
SIDEWALK CLOSED WITH TYPE II BARRICADE AND R11-1101-2418 "SIDEWALK CLOSED" AT FOUR CORNERS OF BRIDGE.

TRAFFIC CONTROL

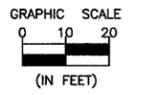
NOTES:

- CLOSE OLD STAGE ROAD TO THRU TRAFFIC AT SARATOGA ROAD.
- CLOSE OTTAWA AVENUE TO THRU TRAFFIC JUST SOUTH OF JEFFERSON STREET.
- CLOSE OTTAWA AVENUE TO ALL TRAFFIC SOUTH OF OTTAWA BEND DRIVE.
- CLOSE OTTAWA AVENUE TO ALL TRAFFIC NORTH OF ENTRANCE TO GEBHART WOODS PARK.

FILE NAME = 002-GENNOTES.DWG	USER NAME = ---	DESIGNED - J.K.C.	REVISED -	FAU 5958 (OTTAWA AVENUE) SECTION 07-00137-00-BR GRUNDY COUNTY	GENERAL NOTES AND TRAFFIC CONTROL	F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 2
PLOT SCALE = NONE	CHECKED - J.K.C.	REVISED -	REVISED -			CONTRACT NO. 87463				
PLOT DATE = 04/18	DATE - 04/10	REVISED -	REVISED -			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
SCALE: NONE		SHEET NO. 2 OF 11 SHEETS				STA. ----- TO STA. -----				



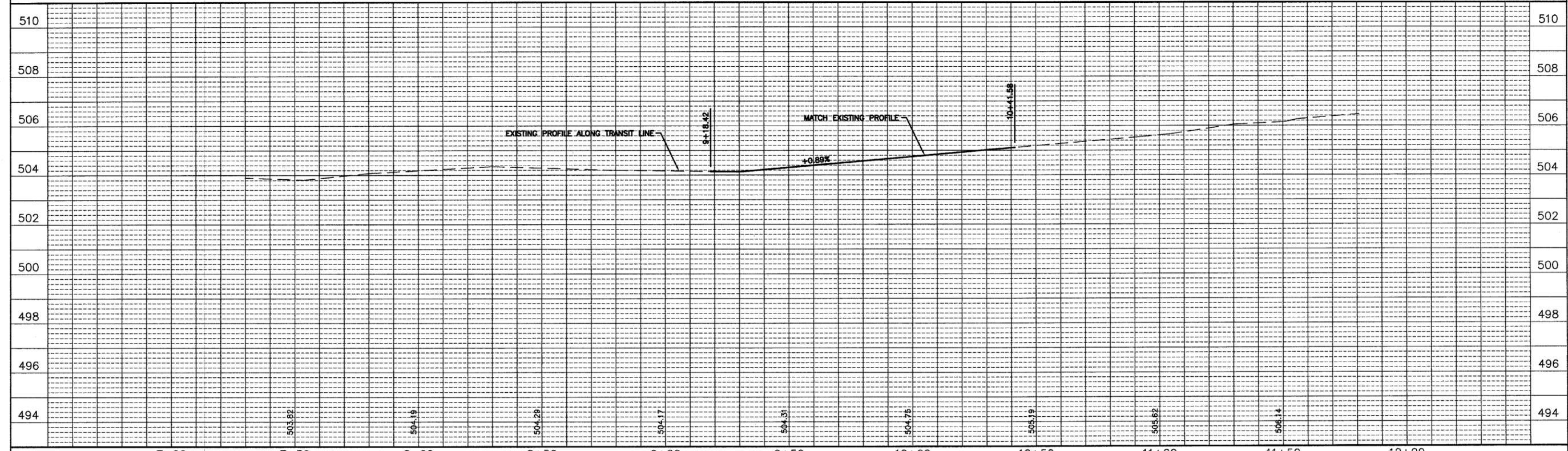
CENTERLINE CURVE DATA
 $\Delta = 40^{\circ}11'00''$
 $R = 208.46'$
 $T = 76.25'$
 $L = 146.20'$
P.C. STA. 10+48.53
P.I. STA. 11+24.78
P.T. STA. 11+94.73
S.E. = NONE



BENCHMARK:
RAILROAD SPIKE IN POWER POLE
SOUTH SIDE OTTAWA AVE. AND
DIRECTLY SOUTH OF GEBHART WOODS
RANGERS OFFICE.
ELEV. 507.91

* CLASS D PATCHES,
TYPE III, 9 INCH

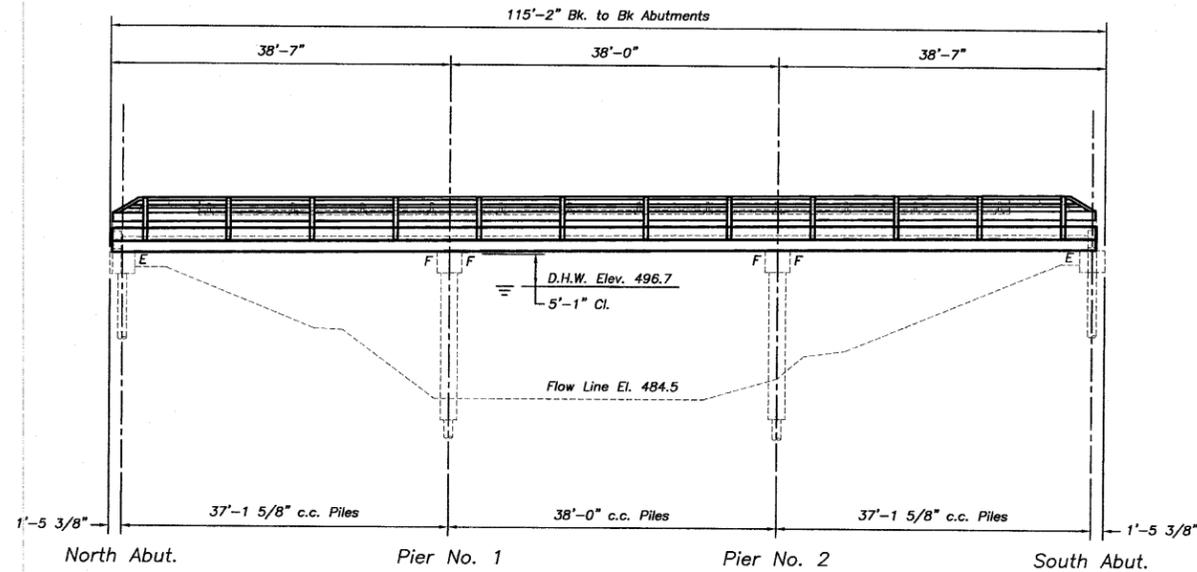
■ SIDEWALK REMOVAL AND
REPLACEMENT



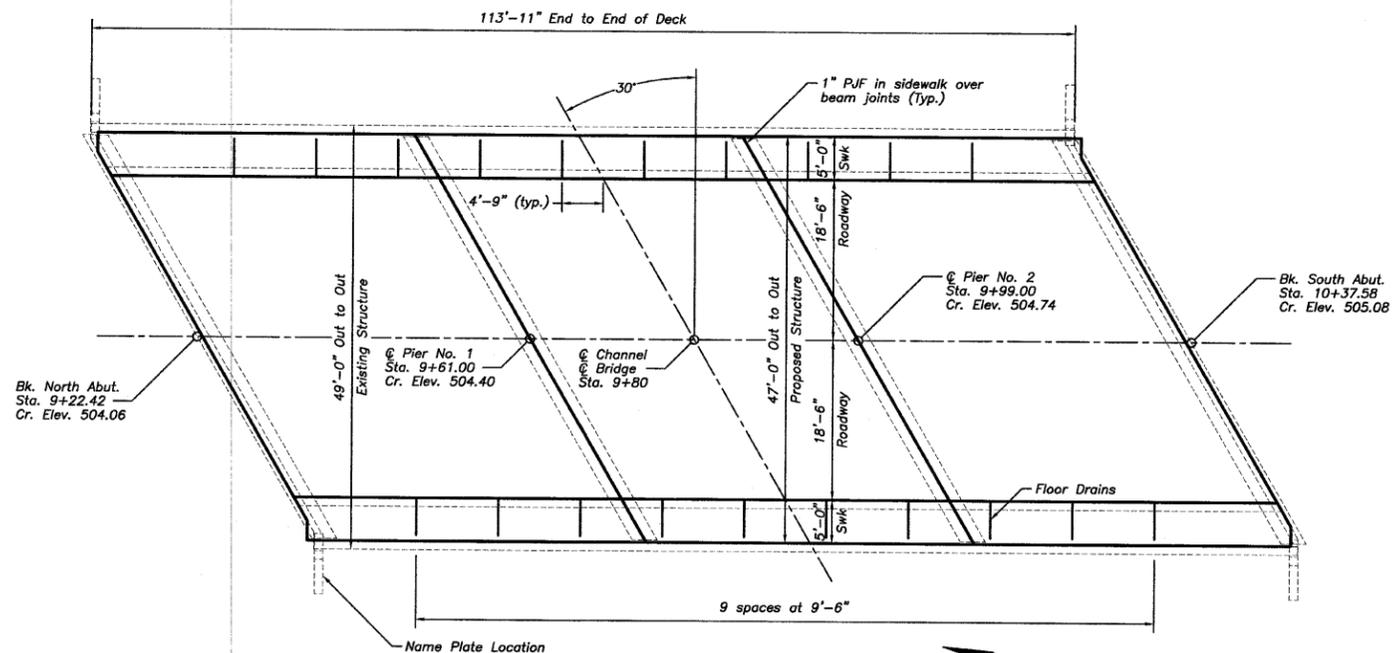
FILE NAME = 004-PLAN-PROF.DWG	USER NAME =	DESIGNED - J.K.C.	REVISED -	FAU 5958 (OTTAWA AVENUE) SECTION 07-00137-00-BR GRUNDY COUNTY	PLAN AND PROFILE	F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 4
PLOT SCALE = 1"=40'	CHECKED - J.K.C.	REVISIONS	CONTRACT NO. 87463							
PLOT DATE = 04/18	DATE - 04/10	REVISIONS	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							
SCALE: AS NOTED		SHEET NO. 4 OF 11 SHEETS				STA. _____ TO STA. _____				

Benchmark:
 Railroad spike in power pole
 south side Ottawa Ave. and
 directly south of Gebhart Woods
 rangers office.
 Elev. 507.91

Existing Structure:
 Precast concrete bridge slab.
 115'-2" Bk to Bk of abutments.
 Remove and replace deck beams.



ELEVATION

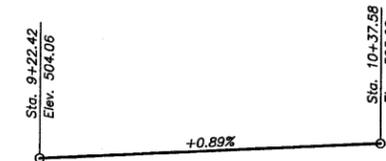


PLAN

NETTLE CREEK
 REBUILT BY
 GRUNDY COUNTY
 SEC. 07-00137-00-BR
 F.A.U. RT. 5958 STA. 9+80
 STR. NO. 032-7006 LOADING HS-20

NAME PLATE

See Std. 515001



PROFILE GRADE

WATERWAY INFORMATION								
Drainage Area= 46.3 sq. mi. Low Grade Elev.= 504.06 Sta. 9+22.42								
Flood	Freq. Yr.	Q C.F.S.	Opening sq. ft.		Nat. H.W.E.	Head - ft.		Headwater el.
			Exist.	Prop.		Exist.	Prop.	
	10	0	473	473	495.1	0.1	0.1	495.2
Design	50	2630	583	583	496.7	0.1	0.1	496.9
Base	100	2950	612	612	497.2	0.1	0.1	497.3
Overtopping	-	-	-	-	-	-	-	-
Max. Calc.	500	3710	673	673	498.0	0.2	0.2	498.2

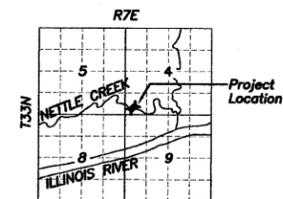
GENERAL NOTES

- The Standard Spec. for Road and Bridge Const. adopted Jan. 1 2007 shall apply to this project.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- No work will be allowed in the stream.
- The Contractor is advised that the existing Precast Concrete Slab Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
- According to existing plans the bearing pads at the abutments are graphited asbestos. These pads shall be removed and disposed of in accordance with the Special Provision for Asbestos Bearing Pad Removal.
- Existing utilities attached to structure shall be relocated by others during construction.

DESIGN STRESSES

Deck Beams
 $f'_c = 6000$ psi
 $f'_{ci} = 5000$ psi
 $f'_s = 270000$ psi
 $f'_{si} = 201960$ psi

Concrete Substructure
 $f'_c = 3500$ psi
 $f_y = 60000$ psi



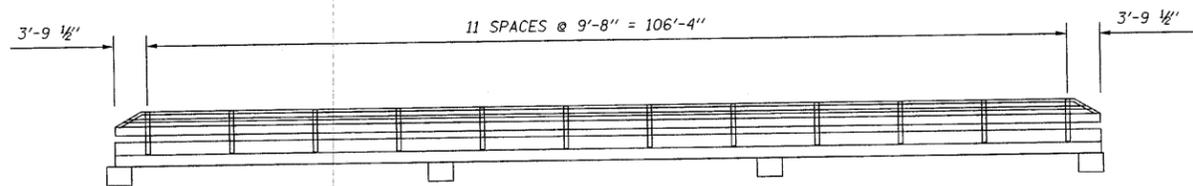
LOCATION MAP

DESIGN SPECIFICATIONS

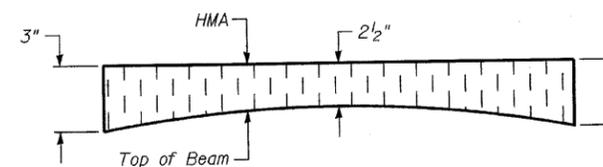
2002 AASHTO & Interims
 HS20-44 Loading
 (Allows 50 P.S.F. Future Wearing Surface)

TOTAL BILL OF MATERIAL

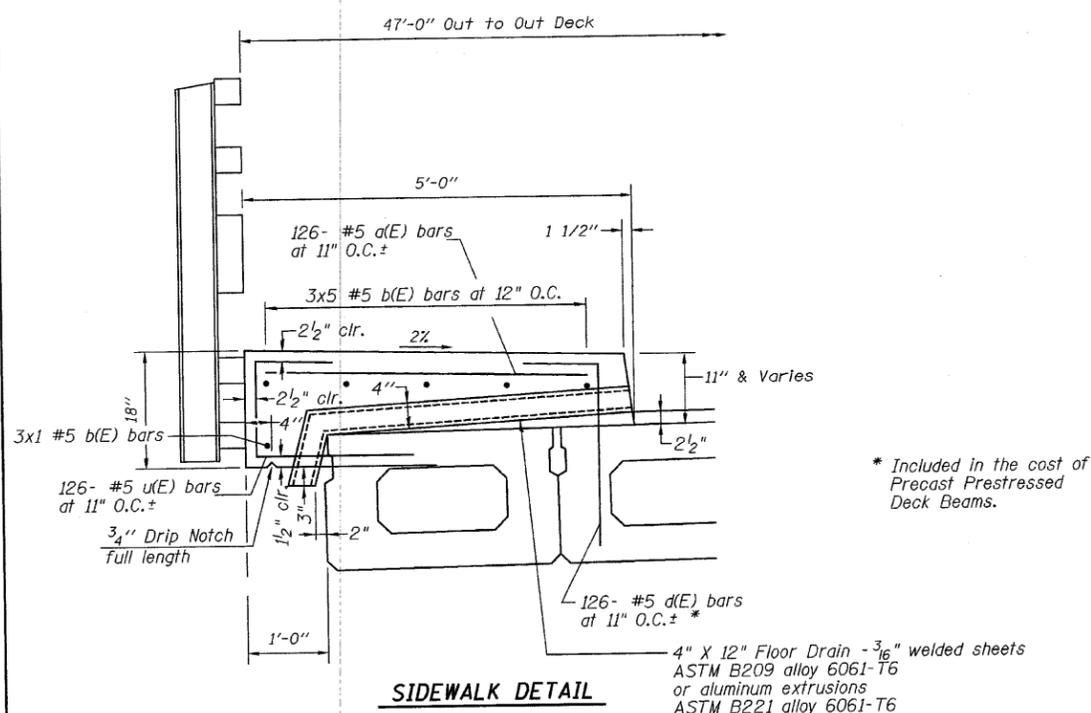
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1	---	1
Concrete Removal	Cu Yd	---	2.1	2.1
Concrete Removal (Special)	Each	---	4	4
Floor Drains	Each	20	---	20
Concrete Structures	Cu Yd	---	2.2	2.2
Concrete Superstructures	Cu Yd	46	---	46
Protective Coat	Sq Yd	179	---	179
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	5119	---	5119
Reinforcement Bars, Epoxy Coated	Pound	3450	---	3450
Steel Railing, Type TP-1	Foot	228	---	228
Name Plates	Each	1	---	1
Relocating Name Plates	Each	1	---	1
Waterproofing Membrane System	Sq Yd	468	---	468
Portland Cement Mortar Fairing Course	Foot	1595	---	1595
Asbestos Bearing Pad Removal	Each	52	---	52



RAIL POST SPACING DETAIL



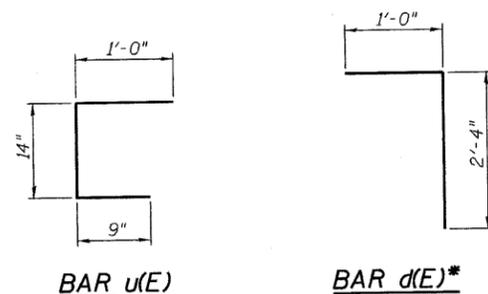
PROFILE OF OVERLAY



SIDEWALK DETAIL

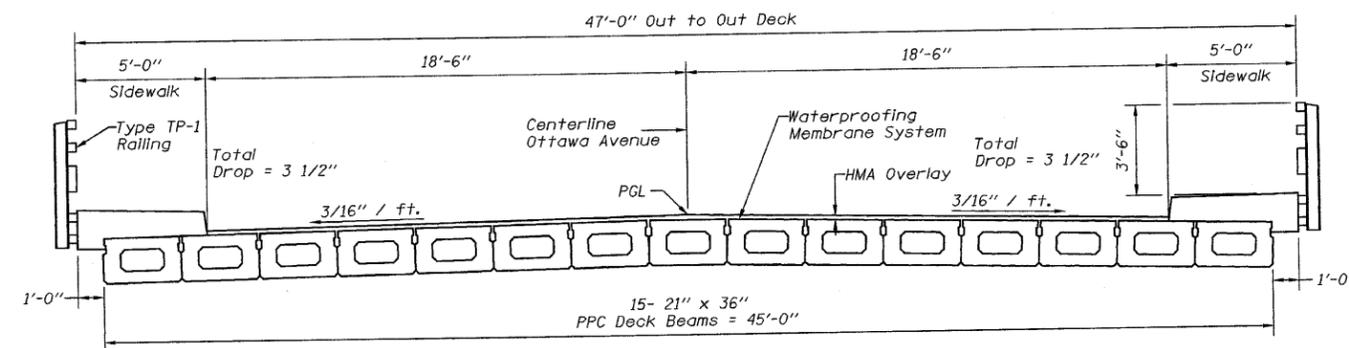
BILL OF MATERIAL (2 SIDES)

Bar	No.	Size	Length	Shape
a (E)	252	#5	4'-10"	—
b (E)	36	#5	37'-8"	—
u (E)	252	#5	2'-11"	C
Reinforcement Bars, Epoxy Coated		Pound	3450	
Concrete Superstructure		Cu. Yd.	46	
Floor Drains		Each	20	

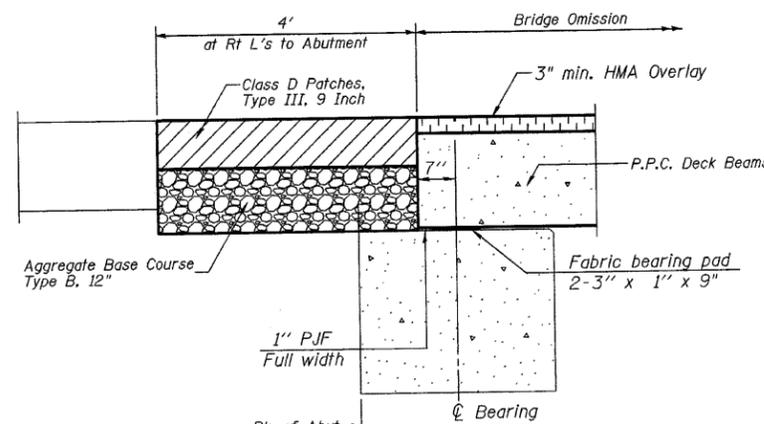


BAR u(E)

BAR d(E)*



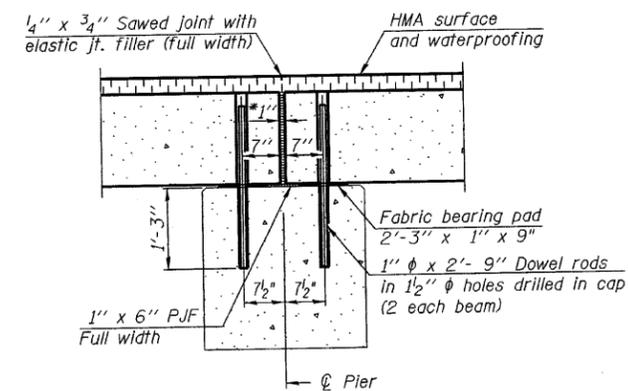
CROSS SECTION



SECTION THRU ABUTMENT

Notes:
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
 All horizontal dimensions are at right angles to beam ends. See sheets 8 of 11 for bearing pad details.

Dimensions are at Rt L's to centerline Pier and Abutment.



SECTION THRU FIXED PIER

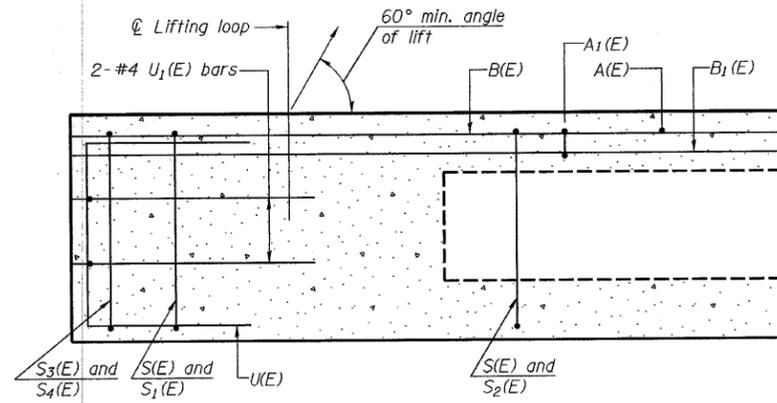
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

FILE NAME = 006-SUPER-DET.DGN	USER NAME = ---	DESIGNED - J.K.C.	REVISED -
		DRAWN - L.A.G.	REVISED -
	PLOT SCALE = NONE	CHECKED - J.K.C.	REVISED -
	PLOT DATE = 04/10	DATE - 04/10	REVISED -

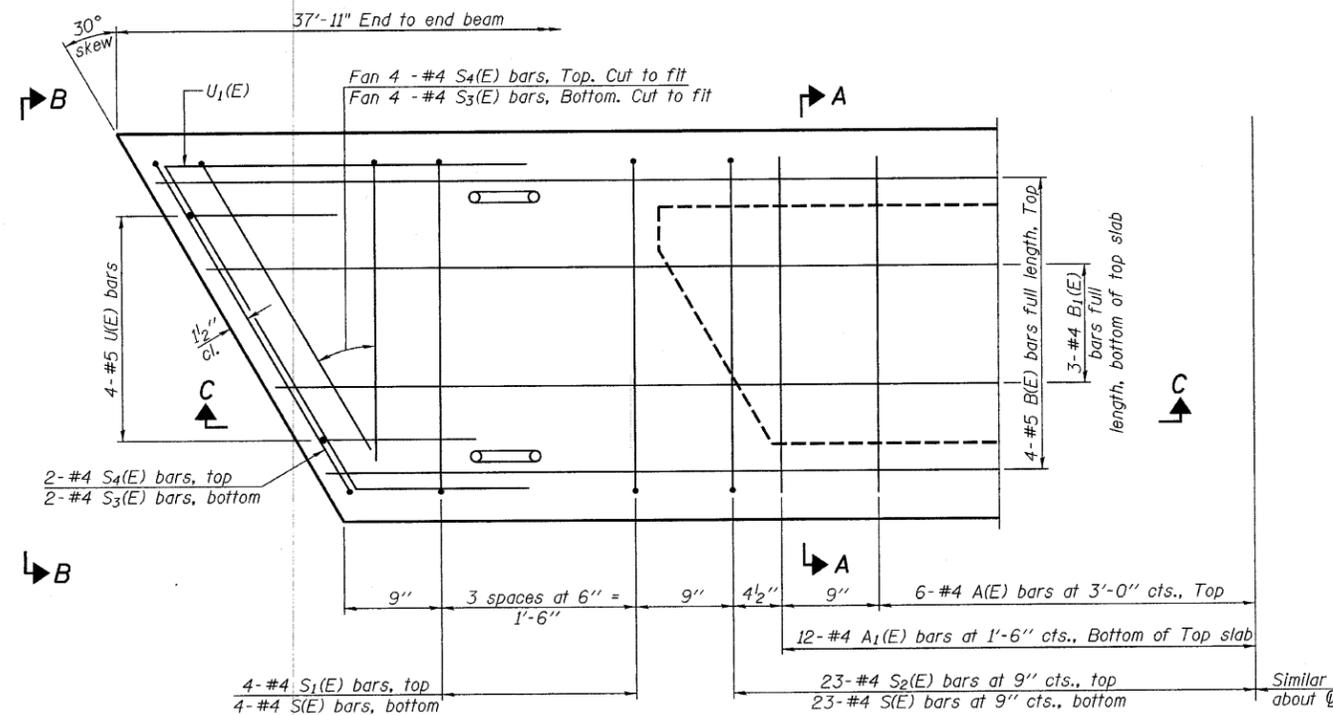
**FAU 5958 (OTTAWA AVENUE)
 SECTION 07-00137-00-BR
 GRUNDY COUNTY**

SUPERSTRUCTURE DETAILS
 SCALE: NONE SHEET NO. 6 OF 11 SHEETS STA. TO STA.

F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 6
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87463	



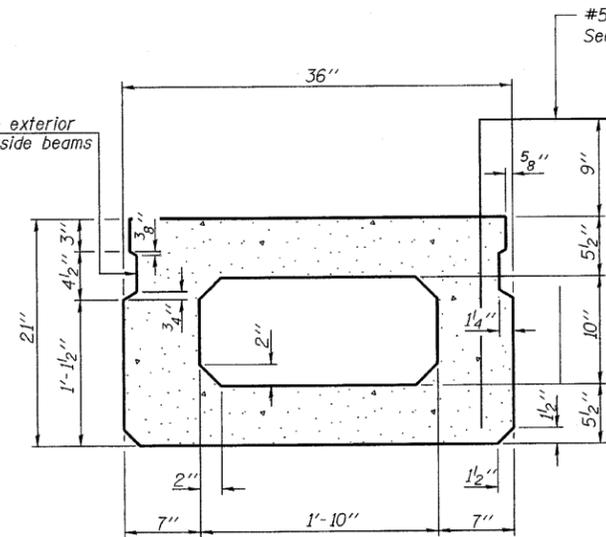
SECTION C-C



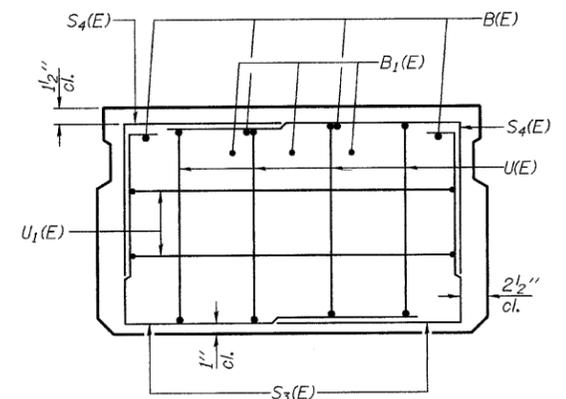
PLAN VIEW

Note: Spacing of S(E) and S₂(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

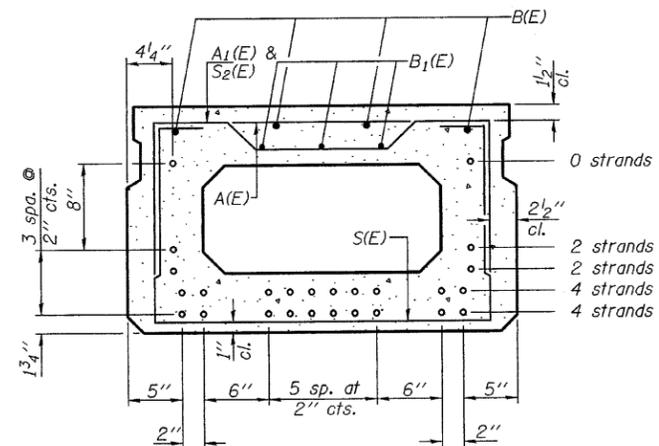
Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)



VIEW B-B



SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

Minimum Bar Lap

#4 bar = 2'-0"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	2'-7"	—
A ₁ (E)	23	#4	2'-10"	—
B(E)	4	#5	37'-8"	—
B ₁ (E)	3	#4	37'-8"	—
D(E)	126	#5	3'-6 1/2"	┘
S(E)	54	#4	6'-5"	┘
S ₁ (E)	8	#4	4'-11"	┘
S ₂ (E)	46	#4	5'-2"	┘
S ₃ (E)	12	#4	4'-5"	┘
S ₄ (E)	12	#4	3'-8"	┘
U(E)	8	#5	4'-0"	┘
U ₁ (E)	4	#4	6'-11"	┘

Note: See sheet 8 of 11 for additional details and Bill of Material.

21" X 36" PPC DECK BEAM
STRUCTURE NO. 032-7006

PD-2136-R

FILE NAME = 007-DECKBEAM36.DGN

USER NAME = ---
PLOT SCALE = NONE
PLOT DATE = 04/10

DESIGNED - J.K.C.
DRAWN - L.A.G.
CHECKED - J.K.C.
DATE - 04/10

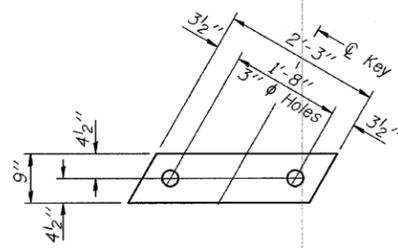
REVISED -
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FAU 5958 (OTTAWA AVENUE)
SECTION 07-00137-00-BR
GRUNDY COUNTY

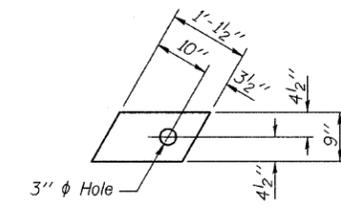
PPC DECK BEAM DETAILS

SCALE: NONE SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5958	07-00137-00-BR	GRUNDY	11	7
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87463	



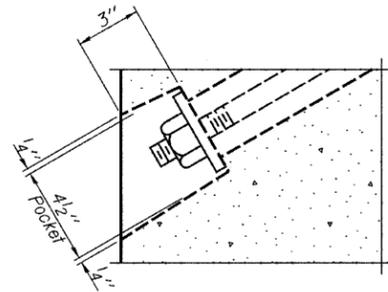
FABRIC BEARING PAD
(Interior)



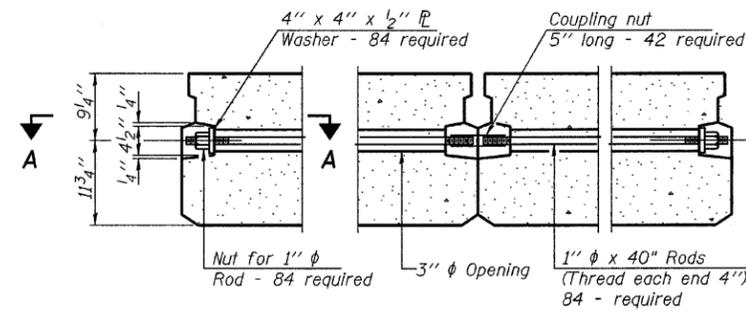
FABRIC BEARING PAD
(Exterior)

FIXED

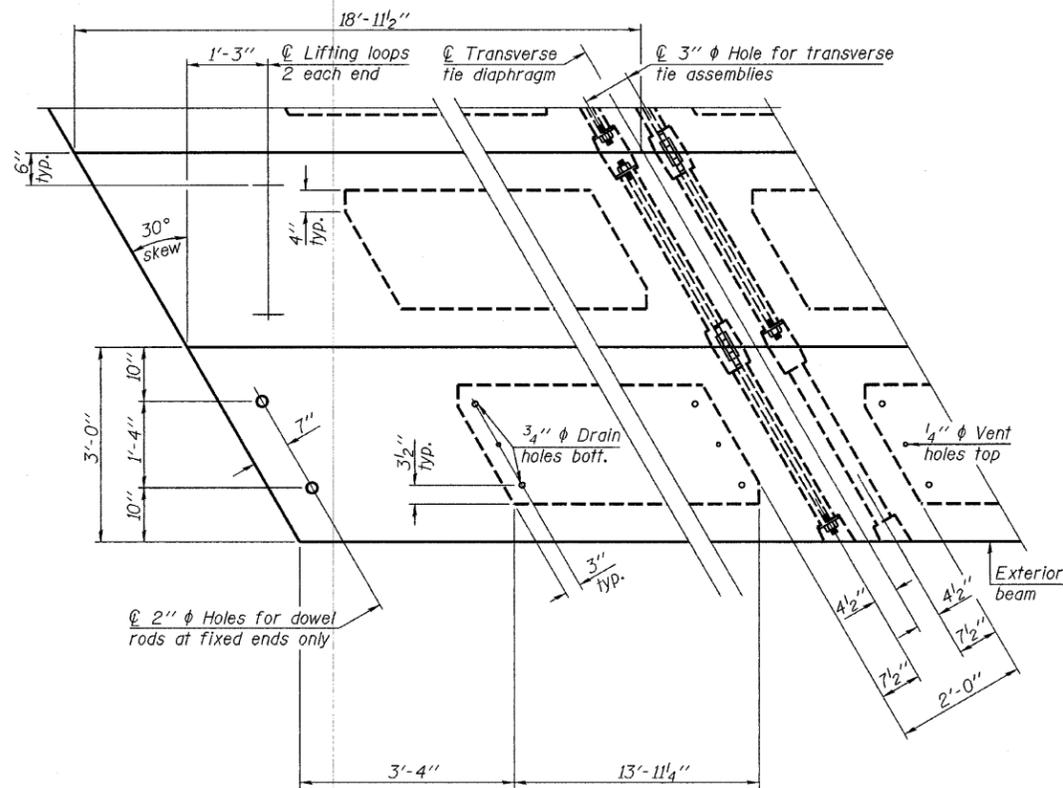
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

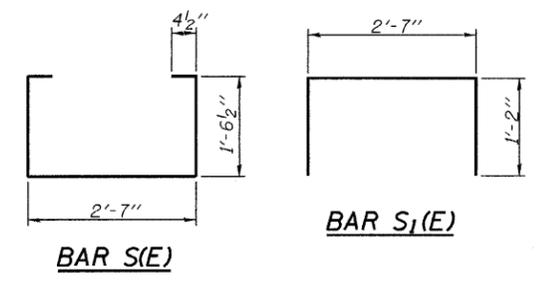


PLAN VIEW

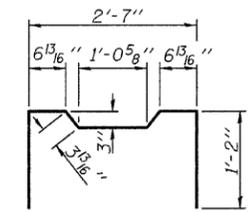
Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

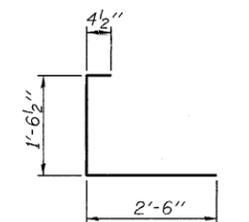
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



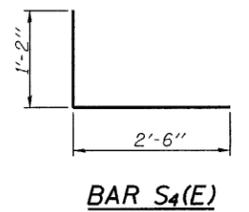
BAR S1(E)



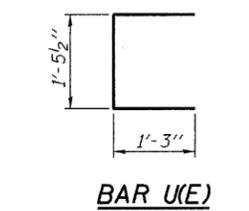
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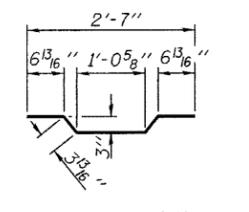
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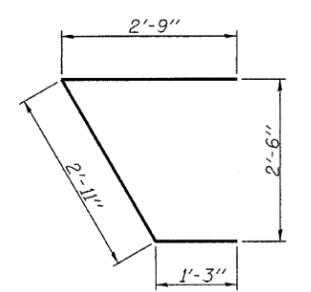
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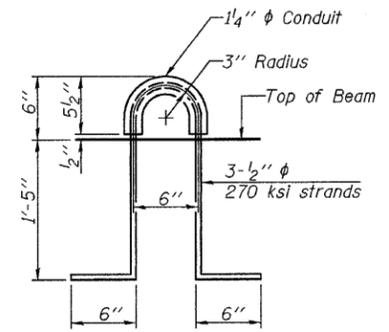
BAR U1(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	5119
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**21" X 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 032-7006**

PD-2136-RD

FILE NAME = 007-DECKBEAM36.DGN	USER NAME =	DESIGNED - J.K.C.	REVISED -
		DRAWN - L.A.G.	REVISED -
		CHECKED - J.K.C.	REVISED -
		DATE - 04/10	REVISED -

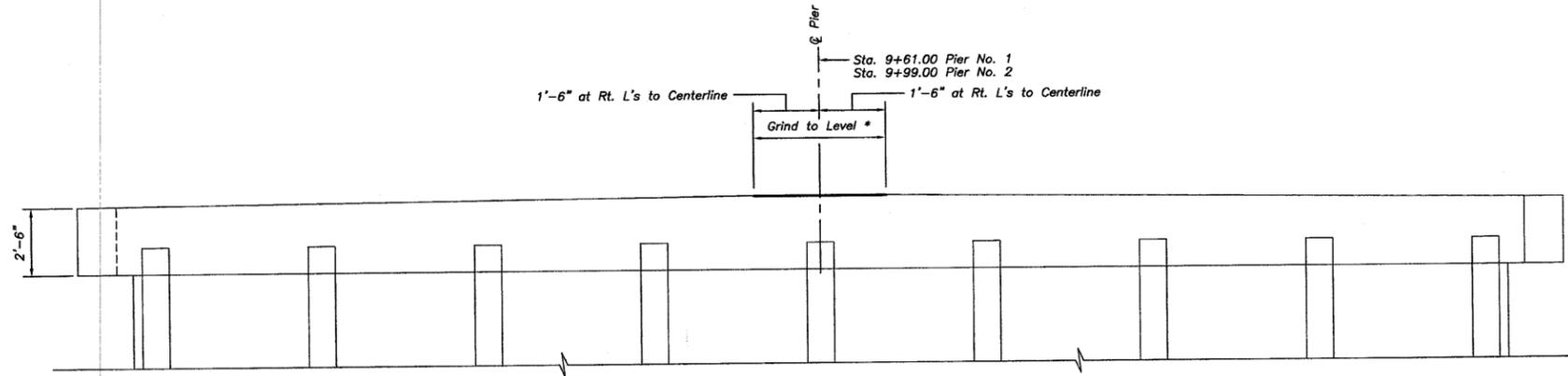
**FAU 5958 (OTTAWA AVENUE)
SECTION 07-00137-00-BR
GRUNDY COUNTY**

PPC DECK BEAM DETAILS

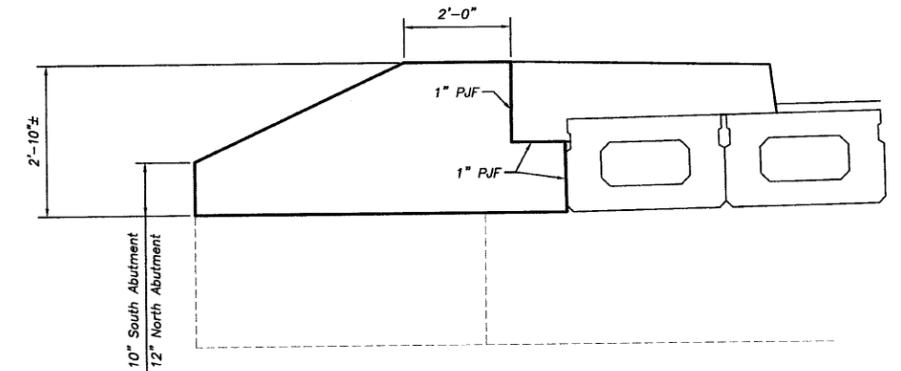
SCALE: NONE SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 8
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87463	

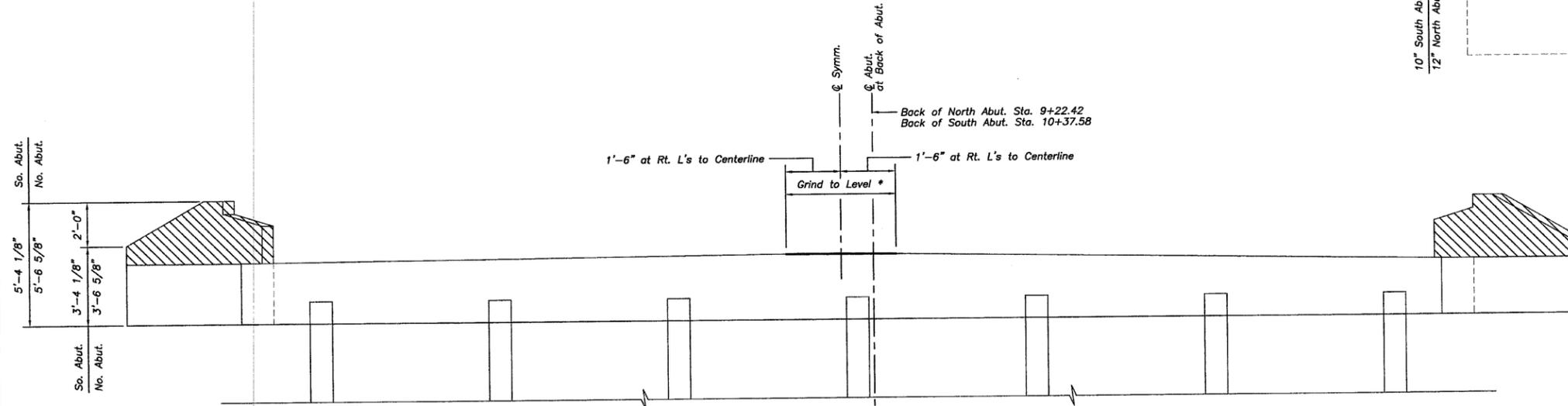
* Paid for as Concrete Removal (Special)



ELEVATION AT PIER
Looking Ahead Station



NEW WINGWALL DETAIL



TYPICAL ELEVATION AT ABUTMENT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu Yd	2.1
Concrete Removal (Special)	Each	4
Concrete Structures	Cu Yd	2.2

Concrete Removal.
Cut, clean, straighten and incorporate existing reinforcement in new wingwall. See detail this sheet.

FILE NAME =
009-FOUNDATIONS.DWG

USER NAME =
PLOT SCALE = 1"=6'
PLOT DATE = 04/10

DESIGNED - J.K.C.
DRAWN - L.A.G.
CHECKED - J.K.C.
DATE - 04/10

REVISED -
REVISED -
REVISED -
REVISED -

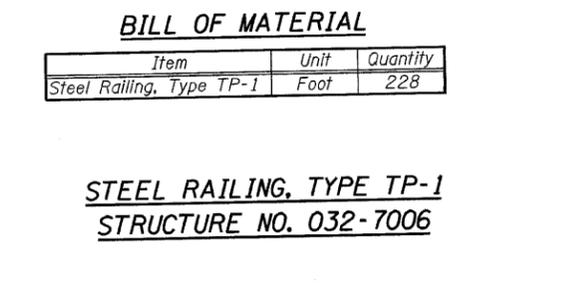
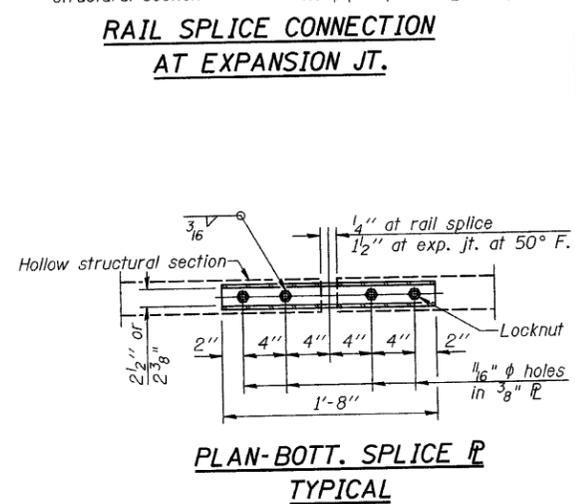
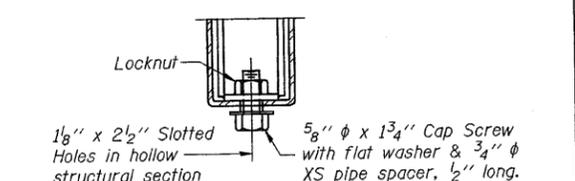
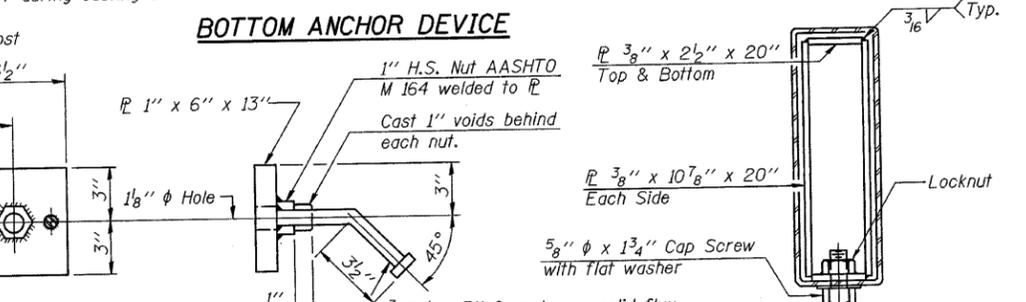
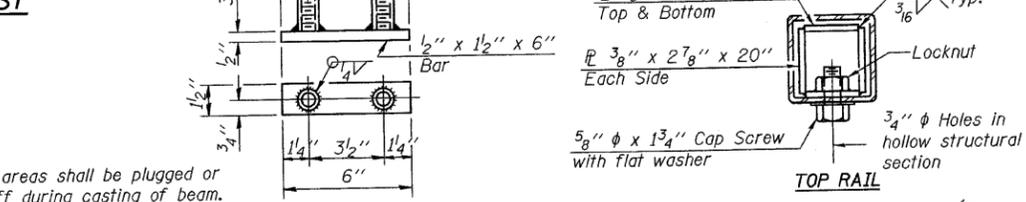
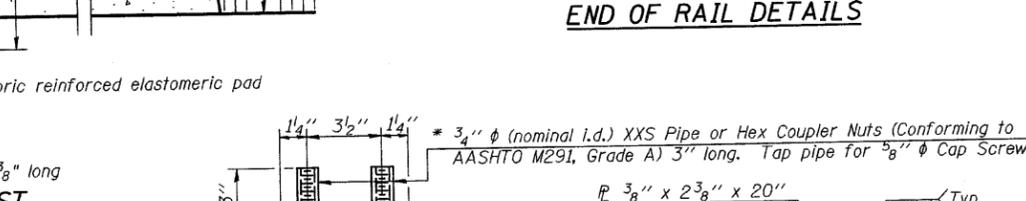
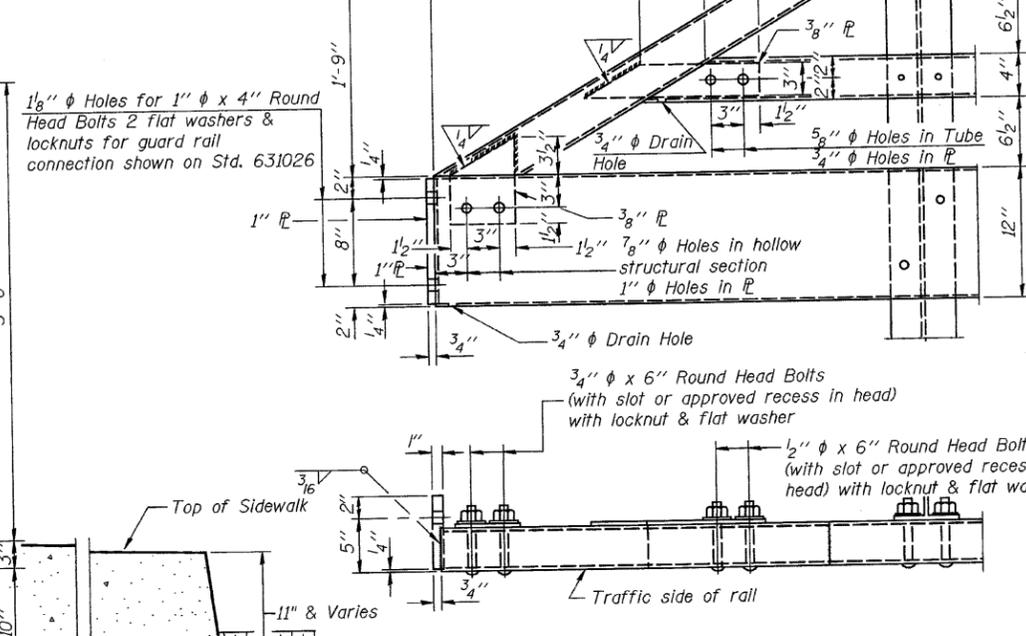
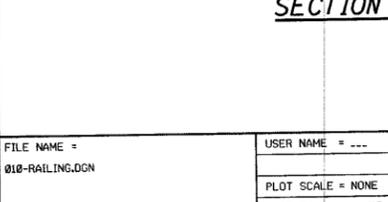
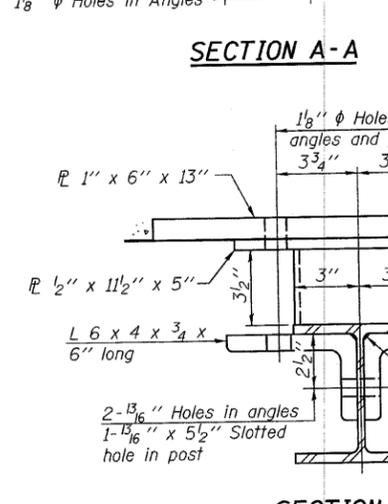
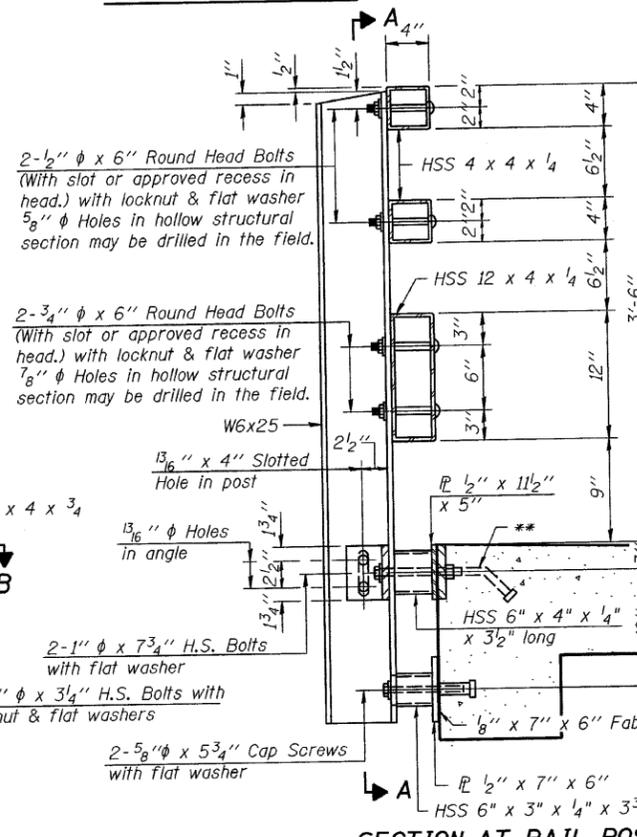
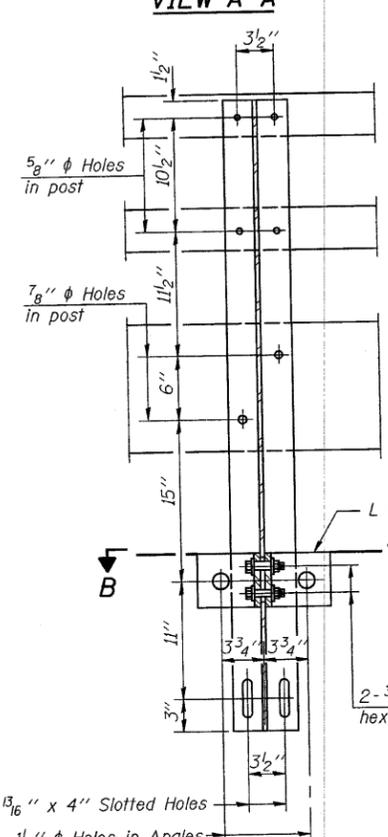
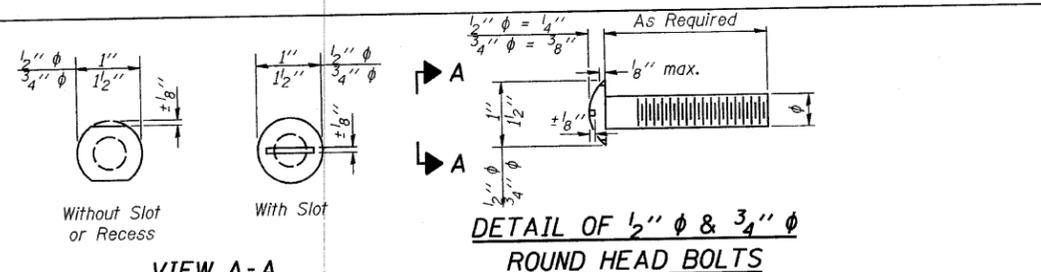
FAU 5958 (OTTAWA AVENUE)
SECTION 07-00137-00-BR
GRUNDY COUNTY

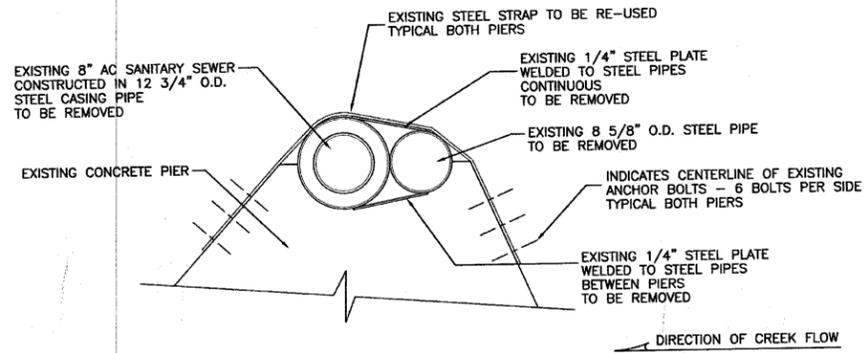
FOUNDATION DETAILS

SCALE: AS NOTED SHEET NO. 9 OF 11 SHEETS STA. _____ TO STA. _____

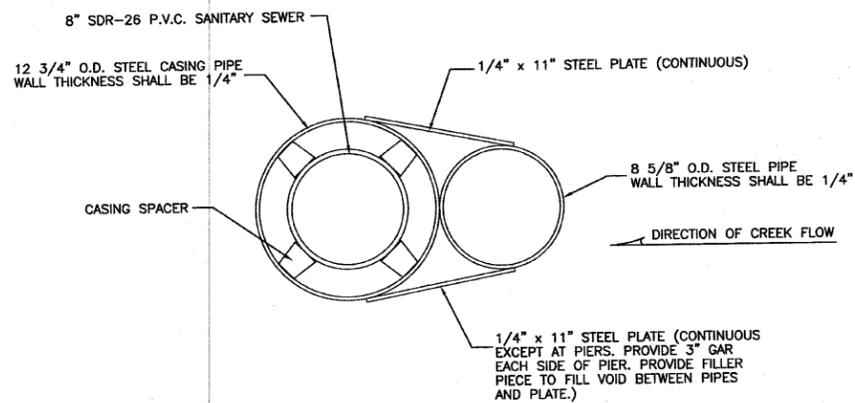
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5958	07-00137-00-BR	GRUNDY	11	9
CONTRACT NO. 87463				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

All field drilled holes shall be coated with an approved zinc rich paint before erection.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.





TYPICAL EXISTING CONDITIONS AT PIERS
N.T.S.



PROPOSED IMPROVEMENT DETAIL
N.T.S.

NOTES:

It is the intention of this project to replace the existing sanitary sewer creek crossing with the same diameter pipe and configuration in order to fit the existing concrete piers.

Both steel pipes are to end within the manholes provide welded steel cover on 8 5/8" o.d. pipe and a rubber boot which will be attached to both the 12 3/4" o.d. pipe and the 8" san sewer using stainless steel banding.

Provide non-shrink hydraulic grout around pipes to seal manhole.

All plates shall be 1/4" continuously welded 100%.

Steel Pipe: Steel pipe shall be carbon steel of the diameter and thickness indicated on the Drawings conforming to ASTM A53, Grade B, 35 ksi yield strength.

Steel Plate: Steel plate shall be carbon steel of the size and thickness indicated on the Drawings conforming to ASTM A36, 36 ksi yield strength.

PVC Sanitary Sewer Pipe: Sewer pipe shall PVC pipe of the size indicated on the Drawings conforming to ASTM D3034, SDR 26. PVC pipe joints shall be flexible elastomeric seals per ASTM D3212 and F477.

Casing Spacers: The spacer body shall be of stainless steel construction with a PVC liner, and the runners shall be polyethylene. All fasteners and misc. parts shall be constructed in stainless steel. Casing spacer shall be the type as designed by Cascade Waterworks Manufacturing of Yorkville, IL, or equal.

Non-shrink Hydraulic Grout: Non-shrink grout shall be a cementitious, non-shrink grout conforming to ASTM C1107.

All welding shall be performed per the American Welding Society Standard D1.1 Structural Welding Code for Steel. All welds shall be 1/4" continuous fillet welds unless noted otherwise on the Drawings.

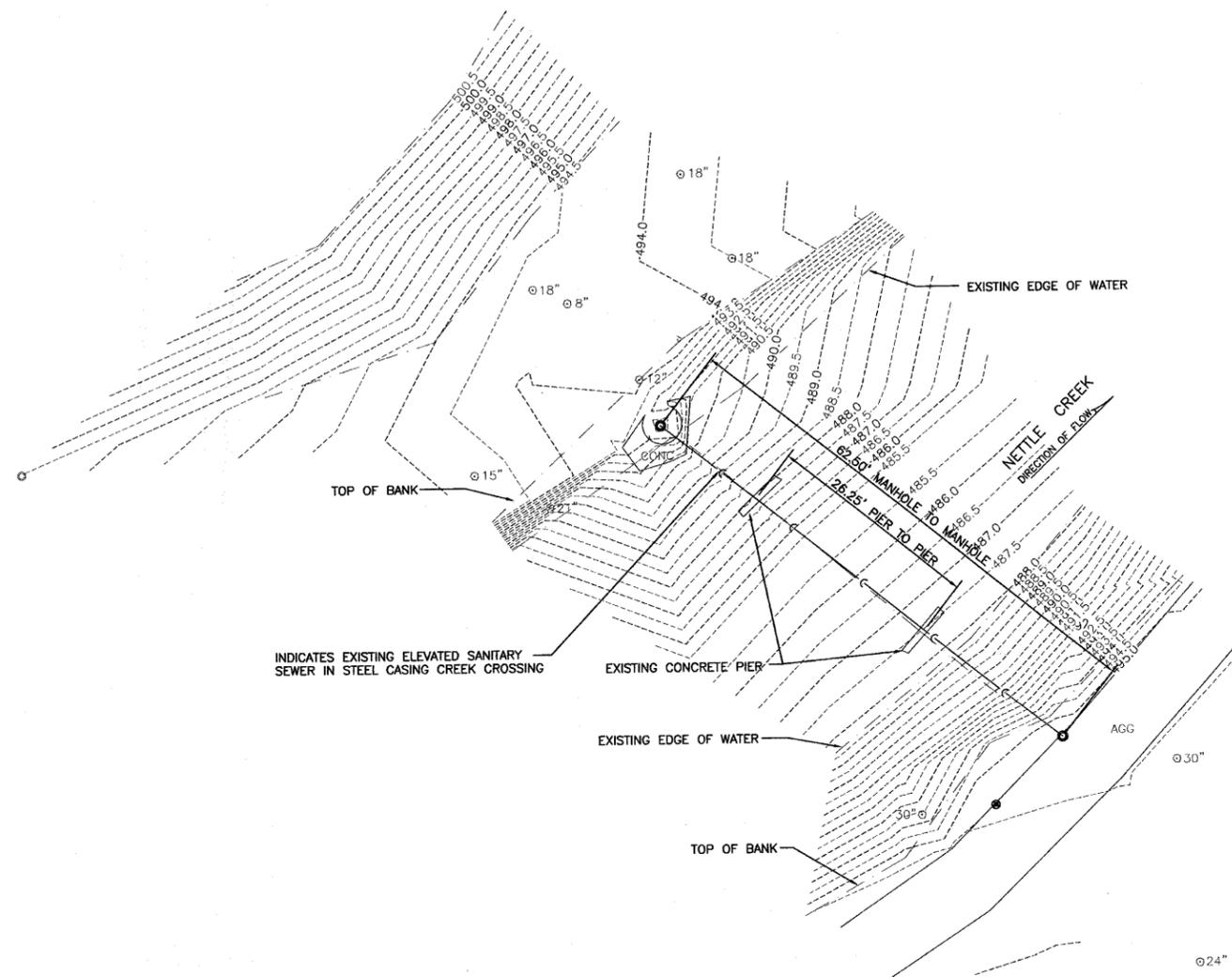
In addition to these Special Provisions, the following documents shall serve as standard specifications for this project:

Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2007, herein referred to as the Roadway Standards.

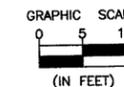
Illinois Society of Professional Engineers Standard Specifications for Water and Sewer Construction in Illinois, Adopted July 1, 2009, herein referred to as the Sewer Standards.

In case of disagreement between these standard specifications and the Special Provisions, the Special Provisions shall hold precedence unless approved by the Engineer.

This work will be paid for at the contract unit price per FOOT, SANITARY SEWER REMOVAL AND REPLACEMENT \$8.00



IMPROVEMENT PLAN VIEW



FILE NAME = 011-TOPO-1-27-10.DWG

USER NAME = ---
PLOT SCALE = 1"=20'
PLOT DATE = 04/10

DESIGNED - A.M.F.
DRAWN - G.A.H.
CHECKED - J.K.C.
DATE - 04/10

REVISED -
REVISED -
REVISED -
REVISED -

FAU 5958 (OTTAWA AVENUE)
SECTION 07-00137-00-BR
GRUNDY COUNTY

SANITARY SEWER CREEK CROSSING REMOVAL AND REPLACEMENT

SCALE: AS NOTED SHEET NO. 11 OF 11 SHEETS STA. ----- TO STA. -----

F.A.U. RTE. 5958	SECTION 07-00137-00-BR	COUNTY GRUNDY	TOTAL SHEETS 11	SHEET NO. 11
CONTRACT NO. 87463				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				