64641

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	1
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*42MFT-BR, (9BR-2)M &42MFT-T		D-92-149-00		

SEE SHEET 2 FOR INDEX OF SHEETS

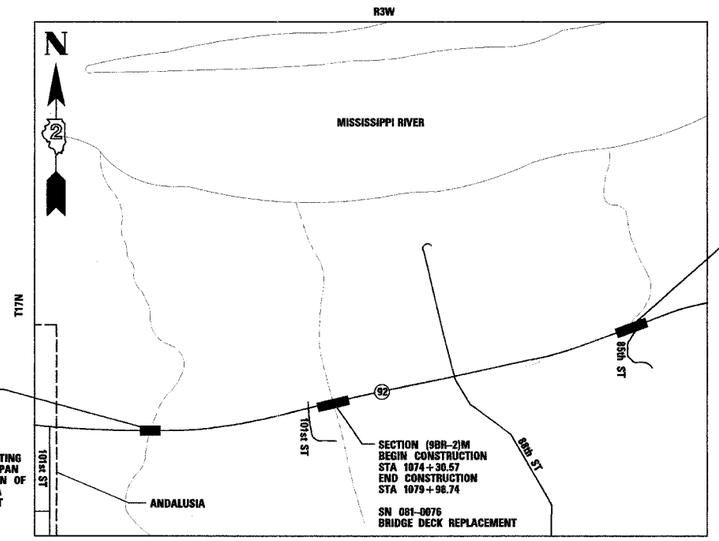
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP ROUTE 599 (IL 92)
SECTION 42MFT–BR, (9BR–2)M, 42MFT–T
PROJECT NO. ACF-0599(019)
ROCK ISLAND COUNTY
C–92–023–05

STATE STANDARDS

000001–04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001	AREAS OF REINFORCEMENT REBARS
001006	DECIMAL OF AN INCH AND A FOOT
280001–02	TEMPORARY EROSION CONTROL SYSTEMS
515001–02	NAME PLATE FOR BRIDGES
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
602001	CATCH BASIN TYPE A
602011	CATCH BASIN TYPE C
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604036–01	GRATE TYPE 8
604051–01	FRAME AND GRATE TYPE 11
606001–02	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606201	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606211–01	OUTLETS TYPE 2 FOR TYPE B GUTTER
630001–05	STEEL PLATE BEAM GUARDRAIL
630301–03	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631032–01	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001	DELINEATORS
635006–02	REFLECTOR AND TERMINAL MARKER REPLACEMENT
635011–01	REFLECTOR MARKER AND MOUNTING DETAILS
667101	PERMANENT SURVEY MARKERS
701006–02	OFF–RD OPERATIONS 2L, 2W 4.5 m (15') TO PAVEMENT EDGE
701011–01	OFF–RD MOVING OPERATIONS 2L, 2W DAY ONLY
701201–02	LANE CLOSURE 2L, 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
701301–02	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701306–01	LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS – DAY ONLY FOR SPEEDS ≥ 45 MPH
701311–02	LANE CLOSURE 2L, 2W MOVING OPERATIONS – DAY ONLY
701321–08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326–02	LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701331–02	LANE CLOSURE 2L, 2W WITH RUN–AROUND FOR SPEEDS ≥ 45 MPH
702001–05	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001–01	TYPICAL PAVEMENT MARKINGS
781001–02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTOR LOOPS



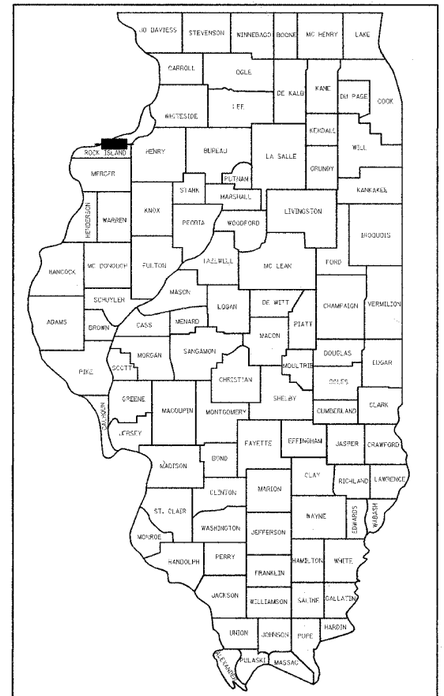
LOCATION MAP 0 MI 1 MI 2 MI 3 MI 4 MI 5 MI 1" = 1 MILES

PLAN AND PROFILE
HORIZONTAL 0 20' 40' 120' 1" = 20'
VERTICAL 0 5' 10' 15' 20' 1" = 5'

OTHER PLANS
HORIZONTAL 0 50' 100' 200' 1" = 50'

CROSS SECTIONS
HORIZONTAL 0 10' 20' 30' 40' 1" = 10'
VERTICAL 0 5' 10' 15' 20' 1" = 5'

GROSS LENGTH OF PROJECT = 1230 LIN. FEET = 0.233 MILES
NET LENGTH OF PROJECT= 1230 LIN. FEET = 0.233 MILES



LOCATION OF SECTION INDICATED THUS:– ▬▬

DESIGN DESIGNATOR
FAP 599 – 7900(23) MINOR ARTERIAL – 3.81(FD–20)
ADT – 6900 (2003) 9.0% TRUCKS
DESIGN SPEED = 60 MPH SECTION 42MFT–BR
30 MPH SECTION 42MFT–T

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED September 6 20 05
Gary L Mountes
DISTRICT ENGINEER

PASSED October 14, 2005
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED October 14 2005
Eric E. Harm
DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

DISTRICT 2 – DIXON, IL

DANIEL THOMAS JEDRZEJAK 062-048347 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

Except sheets:
12, 13, 18, 23-25, 31, 32
License expires 11-30-05

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

ANDALUSIA TOWNSHIP, SECTIONS 26 & 27
CONTRACT NO. 64641

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: ROBERT J WAGNER

SENIOR ENGINEER: THOMAS HALLA (815) 284–5993

HOMER L. CHASTAIN & ASSOCIATES

DAN JEDRZEJAK 773–714–0050

PLOT DATE: 08/31/2005 04:04 PM D16900CVR.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	*	ROCK ISLAND	90	2

STA. TO STA.

EXISTING CONDITIONS:

* 42MFT-BR, (9BR-2)M & 42MFT-T

CONTRACT 64641

INDEX OF SHEETS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR, (9BR-2)M, & 42MFT-T
ROCK ISLAND COUNTY

INDEX OF SHEETS

DRAWN BY: HLC

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	*	ROCK ISLAND	90	3

STA. TO STA.

EXISTING CONDITIONS:

* 42MFT-BR, (9BR-2)M & 42MFT-T

CONTRACT 64641

GENERAL NOTES

1. SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.
2. AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS SECTIONS TO DETERMINE PAY QUANTITIES.
3. THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL.
4. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE 'A' HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
5. IT IS ESTIMATED THAT 3,522 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 20% HAS BEEN USED.
6. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 6 (MODIFIED) SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1 (MODIFIED). CLASS 6 (MODIFIED) SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND GUTTER OR CURB AND GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
7. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.
8. WHEN MULCH WITH EMULSIFIED ASPHALT IS APPLIED, (IT SHOULD NOT BE SPRAYED OVER WATERWAYS) IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COVER OR PROTECT ALL TRAFFIC SIGNS, GUARDRAIL AND CURBS. ANY SIGNS, GUARDRAIL OR CURBS WHICH BECOME COVERED WITH ASPHALTIC MATERIAL SHALL BE CLEANED BY THE CONTRACTOR AT HIS OWN EXPENSE.
9. MULCH ON TEMPORARY SEEDING SHALL BE MULCH METHOD 2. THE QUANTITIES FOR MULCH METHOD 2 INCLUDES BOTH TEMPORARY AND PERMANENTLY SEEDED AREAS.
10. PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
11. THE SUBGRADE ON THIS PROJECT, EXCLUSIVE OF ROCK CUT AREAS IS SCHEDULED TO BE IMPROVED TO A 12" DEPTH ACCORDING TO MECHANISTIC PAVEMENT DESIGN. THE AREAS SCHEDULED TO BE IMPROVED TO A DEPTH GREATER THAN 12" ARE ESTIMATED BASED ON THE ORIGINAL GEOTECHNICAL INVESTIGATION. THE SUBGRADE SHALL BE PROCESSED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE THE ENGINEER SHALL DETERMINE THE LIMITS AND THE ADDITIONAL THICKNESS OF IMPROVEMENT REQUIRED, IF ANY.
12. EXCEPT FOR THE TOP 3", ALL AGGREGATE BASES AND SUBBASES 12" IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 12", THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOPSIZE 6" BREAKER-RUN CRUSHED STONE WITH 15% TO 40% BY WEIGHT PASSING THE 2" SIZE SIEVE, EXCEPT FOR THE TOP 3". THE BREAKER-RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 3" SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 3" LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.
13. ALL EMBANKMENT CONSTRUCTED OF COHESIVE SOIL SHALL BE CONSTRUCTED WITH NOT MORE THAN 110% OF OPTIMUM MOISTURE CONTENT, DETERMINED BY THE STANDARD PROCTOR TEST. COHESIVE SOIL SHALL BE DEFINED AS ANY SOIL WHICH CONTAINS GREATER THAN 10% PARTICLES BY WEIGHT PASSING THE #200 SIEVE. THE 110% OF OPTIMUM MOISTURE LIMIT MAY BE WAIVED IF FREE-DRAINING GRANULAR MATERIAL WHEN APPROVED BY THE ENGINEER.
14. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
15. THE NEW NUMBERS FOR THE CULVERT STRUCTURES ARE 081-1008 (EX 081-1001) AND 081-1009 (EX 081-0075).
16. THE CONTRACTOR SHALL SUBMIT FOUR COPIES OF THE REQUIRED SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE BUREAU OF BRIDGES AND STRUCTURES, 2300 SOUTH. DIRKSEN PARKWAY, SPRINGFIELD, IL 62764. AFTER APPROVAL OF INITIAL SUBMITTAL, THE CONTRACTOR SHALL SUBMIT ONE SET OF SHOP DRAWINGS TO ERIC HARM, ENGINEER OF MATERIALS, 126 EAST ASH STREET, SPRINGFIELD, IL 62706, AND EIGHT (8) SETS OF SHOP DRAWINGS TO BE DISTRIBUTED TO:

    DISTRICT 2 DISTRICT ENGINEER (1)
    FABRICATOR (1)
    CONTRACTOR (2)
    RESIDENT ENGINEER (2)
    DISTRICT 2 BUREAU OF MATERIALS (2)
17. THE BORING LOGS FOR THIS STRUCTURE INDICATE THAT GROUNDWATER LEVELS MAY ENCROACH ON THE CONSTRUCTION LIMITS OF THESE STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL THE GROUND WATER AND DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREA FREE OF WATER. THE METHOD OF CONTROLLING THE WATER SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE BOX CULVERTS OR THREE SIDED PRECAST CONCRETE STRUCTURE.
18. A PRECAST BOX CULVERT IS NOT AN OPTION FOR SN 081-1008 DUE TO SOIL CONDITIONS.
19. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CORRUGATED METAL PIPE CULVERTS AS SHOWN IN THE PLANS. COST OF THE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
20. THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.
21. BITUMINOUS AND AGGREGATE PRIME COAT REQUIRED FOR SURFACE, LEVELING BINDER, AND BINDER ON EXISTING SURFACES SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, LEVELING BINDER (MACHINE METHOD), LEVELING BINDER (HAND METHOD), AND BITUMINOUS CONCRETE BINDER COURSE OF THE TYPES SPECIFIED. BITUMINOUS AND AGGREGATE PRIME COAT REQUIRED FOR PRIVATE ENTRANCES SHALL BE IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE.
22. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

BITUMINOUS MIXTURE DESCRIPTION

MIX USES	SURFACE COURSE	BINDER COURSE	LEVELING BINDER	TOP SHOULDER	BOTTOM SHOULDER
PG	64-22	64-22	64-22	58-22	58-22
RAP% (MAX)	15	25	25	30	50
DESIGN AIR VOIDS(%)	4.2 AT N50	4.2 AT N50	4.2 AT N50	3 AT N50	2 AT N50
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 19.0	IL 9.5	IL 9.5 OR 12.5	BAM
FRICTION AGGREGATE	D	N/A	N/A	C	N/A
20 YEAR ESAL	2.04	2.04	2.04	N/A	N/A

23. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
    1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
    2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
    3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8", NOT 7" AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
24. THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5-1/2" HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2 LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS OF 4 LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 6" INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.
25. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON HIGHWAY STANDARD 667101. A MARKER SHALL BE PLACED NEAR EACH STRUCTURE AS DIRECTED BY THE ENGINEER.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

SBC/AMERITECH TELEPHONE COMPANY	MR. JEREMY SCHNACK	(309)-793-4456
MIDAMERICAN ENERGY COMPANY - ELECTRIC	MR. JEFF THOMAS	(309)-793-3763
MIDAMERICAN ENERGY COMPANY - GAS	MR. SCOTT BULL	(309)-793-3870
VILLAGE OF ANDALUSIA - WATER & SEWER	MR. MIKE WELLS	(309)-798-2887

27. THE CONTRACTOR SHALL ONLY USE STATE ROUTES AND DETOUR ROUTES FOR HAULING MATERIALS AND EQUIPMENT. THERE WILL BE NO EXCEPTIONS UNLESS WRITTEN PERMISSION IS GIVEN FROM A JURISDICTION, TOWNSHIP OR COUNTY. A RECORD OF THIS AUTHORIZATION SHALL BE GIVEN TO THE RESIDENT ENGINEER.
28. THE RESIDENT ENGINEER PRIOR TO CLOSING THE ROAD AND AFTER THE PROJECT IS FINISHED SHALL CONTACT THE ROCK ISLAND COUNTY ENGINEER AND THE CITY OF ROCK ISLAND TO VIDEO TAPE THE FOLLOWING ROADS: 108TH ST. WEST/105 STREET WEST AND TURKEY HOLLOW RD.
29. THE ROADWAY SHALL NOT BE CLOSED PRIOR TO APRIL 18, 2006 AND WHEN RESTRICTED WEIGHT LIMITS ARE REMOVED FROM SURROUNDING ROADS.
30. CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.
31. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
32. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
33. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE NOTED. PAVEMENT THICKNESS, CULVERT SIZE, CONDUIT SIZE AND MARKING WIDTHS ARE SHOWN IN INCHES UNLESS NOTED.
34. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS OR OTHERWISE REFERENCE THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
35. ONLY THOSE TREES DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
36. ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN PAVEMENT REMOVAL. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE FULL DEPTH OF THE EXISTING PAVEMENT UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS OR BY THE ENGINEER.
37. ACCORDING TO IDOT BDE PROCEDURE MEMORANDUM 99-34 AND OPERATIONS POLICY 5-1800, ALL UNMOWED AREAS SHOULD BE DESIGNATED IN THE PLANS AND SEEDED WITH THE APPROPRIATE NATIVE SEEDING SELECTIONS FROM CLASS 4, PER DIRECTIVE OF THE DECEMBER 8, 1999 STUDIES AND PLANS ENGINEER'S MEMORANDUM.
38. QUANTITY OF TRENCH BACKFILL IS PROVIDED IN THE PLANS FOR THE STRUCTURES. PLACEMENT AND COMPACTION OF TRENCH BACKFILL FOR ACROSS ROAD (AR) CULVERTS, INCLUDING THE THREE SIDED PRECAST CONCRETE STRUCTURE, SHALL CONFORM TO ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION WITHIN 2' OUTSIDE OF EACH SHOULDER SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL. THE PAY LIMITS FOR TRENCH BACKFILL SHALL EXTEND FROM 2' OUTSIDE EACH VERTICAL CULVERT WALL AT THE BASE OF THE CULVERT FLOOR AND SHALL EXTEND VERTICALLY TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR TRENCH BACKFILL.
39. THE CURB OF ALL PROPOSED CURB AND GUTTER SHALL TRANSITION IN 6' FROM FULL HEIGHT TO THE GRADES OF ABUTTING SHOULDERS AND ENTRANCES. THE COST OF THIS TRANSITION SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "COMBINATION CURB AND GUTTER" OF THE TYPE SPECIFIED.
40. STATION AND OFFSET FOR CATCH BASINS IN PAVED AREAS ARE AT THE EDGE OF SHOULDER. STATION AND OFFSET OF CATCH BASINS IN NON-PAVED AREAS ARE AT THE CENTER OF STRUCTURE. STATION AND OFFSET FOR FLARED END SECTIONS ARE AT THE CONNECTION WITH THE PIPE.
41. THE FOLLOWING QUANTITIES HAVE BEEN ESTIMATED FOR THE GOOD NEIGHBOR POLICY AS NEEDED: 66300105 CALCIUM CHLORIDE APPLIED - 14 TON, 40600810 BITUMINOUS SURFACE COARSE MIX C, CLASS 1, TYPE 1 N50 - 230 TONS, 31101000 SUB-BASE GRANULAR MATERIAL TYPE B - 100 TON.
42. REFLECTIVE STRIP CRACK CONTROL SHALL BE PLACED ON THE EDGE OF EXISTING SURFACE PRIOR TO ANY RESURFACING, UNLESS PAVEMENT IS MILLED, THEN IT WILL BE PLACED ON THE BINDER COURSE.
43. DUE TO ENVIRONMENTAL CONCERNS THE FOLLOWING SHALL BE STRICTLY ADHERED TO AT FANCY CREEK

    1) ALL WORK SHALL BE PERFORMED FROM THE EXISTING DECK AND NO WORK SHALL TAKE PLACE BELOW THE EXISTING STRUCTURE ON THE GROUND BY FANCY CREEK.

    2) NO FILL SHALL BE PLACED IN OR AROUND FANCY CREEK.

POLICY GUIDELINES:

ALL TREES REMOVED FROM THE PROJECT AREA (25 TREES, MAX.) FOR CONSTRUCTION OR MAINTENANCE PURPOSES WILL BE REPLACED WITH DECIDUOUS TREE SPECIES WHICH ARE NATIVE TO THE DISTRICT 2 AREA. TREES WILL BE REPLACED ACCORDING TO THE IDOT DEPARTMENTAL POLICY D & E - 18 (SEPTEMBER 18, 2002). THE LOCATION OF THE REPLACEMENT TREES SHALL BE DETERMINED BY THE DISTRICT 2 LANDSCAPE ARCHITECT.

COMMITMENTS:

42MFT-BR

NONE

42MFT-T

NONE

(9BR-2)M

NONE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR. (9BR-2)M & 42MFT-T
ROCK ISLAND COUNTY

GENERAL NOTES

DRAWN BY: HLC

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	•	ROCK ISLAND	90	4

STA. TO STA.

EXISTING CONDITIONS:

• 42NET-BR, (90R-2M & 42MFT-T

CONTRACT 64641

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

←80% FED 20% STATE→ (over 1000-2A and X028-2A columns)

	CODE NUMBER	ITEM	UNITS	TOTAL	1000-2A	SN 081-1059 X028-2A	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
*	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1- 3/4" CALIPER, BALLED AND BURLAPPED	EACH	25	25				
	B2003516	TREE, MALUS HARVEST GOLD (HARVEST GOLD CRABAPPLE), 2" CALIPER, TREE FORM, BALLED & BURLAPPED	EACH	4	4				
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	300	300				
	B2005316	TREE, MALUS ZUMI CALOCARPA (REDBUD ZUNI CRABAPPLE), 2" CALIPER, TREE FORM, BALLED & BURLAPPED	EACH	4	4				
	20200100	EARTH EXCAVATION	CU YD	3,694	3,650			44	
	20300100	CHANNEL EXCAVATION	CU YD	192	192				
	20400800	FURNISHED EXCAVATION	CU YD	3,004	2,688			316	
	20800150	TRENCH BACKFILL	CU YD	560	560				
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8,068	7,708			360	
	21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	50	50				
	25000200	SEEDING, CLASS 2	ACRE	0.25				0.25	
	25000310	SEEDING, CLASS 4	ACRE	1.75	1.75				
□*	25000750	MOWING	ACRE	1.75	1.75				
	25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	1.00	1.00				
	25001830	SEEDING, CLASS 6 (MODIFIED)	ACRE	0.75	0.75				
	25100115	MULCH, METHOD 2	ACRE	10.50	10.50				
	25100630	EROSION CONTROL BLANKET	SQ YD	1,084	1,084				
	25200110	SODDING, SALT TOLERANT	SQ YD	776	776				
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	720	700			20	
	28000300	TEMPORARY DITCH CHECKS	EACH	17	17				
	28000400	PERIMETER EROSION BARRIER	FOOT	2,891	2,036			855	
	28000500	INLET AND PIPE PROTECTION	EACH	10	10				
	28100109	STONE RIPRAP, CLASS A5	SQ YD	273	273				
	28200200	FILTER FABRIC	SQ YD	273	273				
	31100300	SUB-BASE GRANULAR MATERIAL, TYPE A, 4"	SQ YD	407	407				
	31100910	SUB-BASE GRANULAR MATERIAL, TYPE A, 12"	SQ YD	2,825	2,825				
	31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	100	100				
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	1,265	1,265				
	~~40600910~~	~~BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I, TYPE 1 N50~~	~~TON~~	~~230~~	~~230~~				
	40600990	TEMPORARY RAMP	SQ YD	36	36				
	44000007	BITUMINOUS SURFACE REMOVAL 2"	SQ YD	115				115	
	44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1,059	1,059				
	44000100	PAVEMENT REMOVAL	SQ YD	2,744	2,744				
	44000400	GUTTER REMOVAL	FOOT	305	305				
	44000075	BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE	SQ YD	236	0			236	
	44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,692	1,692				
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	515	235			280	
	48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	620	620				
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1			
	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1			
	50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	173		173			
	50300225	CONCRETE STRUCTURES	CU YD	110		110			
	50300260	BRIDGE DECK GROOVING	SQ YD	257				257	
	50300265	SEAL COAT CONCRETE	CU YD	7		7			
	50300300	PROTECTIVE COAT	SQ YD	266				266	
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	327					327
	50800105	REINFORCEMENT BARS	POUND	56,970		56,970			
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,530				3,530	
	50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	109				109	
	51500100	NAME PLATES	EACH	3		2		1	
	54003000	CONCRETE BOX CULVERTS	CU YD	271.9		271.9			

□ NON-PARTICIPATING

* SPECIALTY ITEM

\+ SFTY-3N ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

PROJECT NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	*	ROCK ISLAND	90	5
STA.		TO STA.		
EXISTING CONDITIONS:				
* 42MET-BR, (SBR-2M & 42MF-1)				

CONTRACT 64641

←80% FED — 20% STATE→

CODE NUMBER	ITEM	UNITS	TOTAL	I000-2A	X028-2A SN 081-1009	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
54213870	STEEL END SECTIONS 15"	EACH	9	9				
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	112	112				
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	44	44				
542D1111	PIPE CULVERTS, CLASS D, TYPE 2 66"	FOOT	120	120				
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	742	742				
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	116	116				
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	375			375		
* 56105000	WATER VALVES 8"	EACH	2			2		
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1			1		
* 56400700	FIRE HYDRANTS (SPECIAL)	EACH	1	1				
60100915	PIPE DRAINS 6"	FOOT	50	50				
60100925	PIPE DRAINS 8"	FOOT	50	50				
60100935	PIPE DRAINS 10"	FOOT	50	50				
60100945	PIPE DRAINS 12"	FOOT	50	50				
60100955	PIPE DRAINS 15"	FOOT	54	54				
60200805	CATCH BASINS, TYPE A, 4'- DIAMETER, TYPE 8 GRATE	EACH	2	2				
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1				
60209510	CATCH BASINS, TYPE C, WITH SPECIAL FRAME AND GRATE	EACH	6	6				
60249500	VALVE BOXES 8"	EACH	2			2		
60405900	GRATES AND COVERS, TYPE 2B	EACH	1	1				
60500060	REMOVING INLETS	EACH	1	1				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2.2	2.2				
60602800	CONCRETE GUTTER, TYPE B	FOOT	362	362				
60900515	CONCRETE THRUST BLOCKS	EACH	5			5		
61100605	MISCELLANEOUS CONCRETE	CU YD	1	1				
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1				
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	350				350	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4				4	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4				4	
63200310	GUARDRAIL REMOVAL	FOOT	790	423			367	
63500105	DELINEATORS	EACH	7	3			4	
66300105	CALCIUM CHLORIDE APPLIED	TON	14	14				
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	15	15				
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4	2			2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9				
67100100	MOBILIZATION	L SUM	1	0.67			0.33	
70100405	TRAFFIC CONTROL AND PROTECTION STD 701321	EACH	1				1	
70100450	TRAFFIC CONTROL AND PROTECTION STD. 701201	L SUM	1				1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1				
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	270	270				
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1				1	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	446	446				
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	6,844	6,844				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	960	650			310	

* SPECIALTY ITEM

+ SFTY-3N ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHT NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	*	ROCK ISLAND	90	6
STA.		TO STA.		
EXISTING CONDITIONS:				
* 42M6T-RR, (9BR-2)M & 42M6T-T				

CONTRACT 64641

	CODE NUMBER	ITEM	UNITS	TOTAL	←80% FED. — 20% STATE→ I000-2A	X028-2A SN 081-1009	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	535	225			310	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	14,025	13,408			617	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	48	44			4	
	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16				16	
	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4				4	
	78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	120				120	
	X0301335	WATER MAIN REMOVAL 8"	FOOT	367			367		
	X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	327					327
	X0320887	POLYMER CONCRETE	CU FT	3.4				3.4	
	X0322752	WORK ZONE PAVEMENT MARKING REMOVAL	FOOT	249	249				
	X0323076	SILCONE JOINT SEALER, 1 3/4"	FOOT	47				47	
	X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1		0.5		0.5	
	X0323557	BRIDGE JOINT SYSTEM EXPANSION 1"	FOOT	36				36	
	X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	272		272			
	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	123	103			20	
	X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	276	276				
	X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL- 19.0, N50	TON	259	259				
	X4066735	LEVELING BINDER (HAND METHOD), SUPERPAVE N50	TON	3	3				
	X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	19	19				
	X4073121	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 12"	SQ YD	2,399	2,399				
	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	262				262	
	X6063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M- 4.12	FOOT	667	667				
	X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1				
*	XX003345	WATER MAIN ENCASEMENT	FOOT	20			20		
	XX003516	CONNECTIONS TO EXISTING WATER MAINS (NON-PRESSURE) - 8"	EACH	2			2		
	XX004949	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	TON	213	213				
	XX004970	TEMPORARY PAVEMENT SUPERPAVE	SQ YD	1,318	1,318				
	Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	3,250	3,250				
*	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	2				2	
	Z0002600	BAR SPLICERS	EACH	83		26			57
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.67			0.33	
+	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	6	4			2	
	Z0017300	DOWEL REPAIR	EACH	26					26
+	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LOAD 3	EACH	4	2			2	
	Z0003700	BEARING PAD ADJUSTMENT	EACH	26					26
	X0325133	THREE-SIDED PRECAST CONCRETE STRUCTURE, 32' X 6'-6"	FOOT	85		85			
	Z0032700	KEYWAY REPAIR	FOOT	654					654

* SPECIALTY ITEM

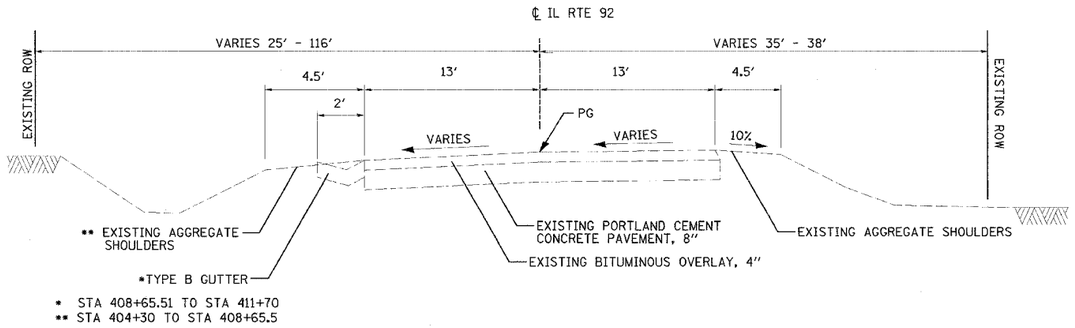
\+ SFTY-3N ITEM

09/09/2005
DATE_TIME
DGN-SPEC
*REF-
*REF-
*REF-

PLOT DATE: 09/09/2005 1:29:51 AM D16900CVR.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	7
STA. 404+30	TO STA. 410+00			
EXISTING CONDITIONS:				

CONTRACT 64641

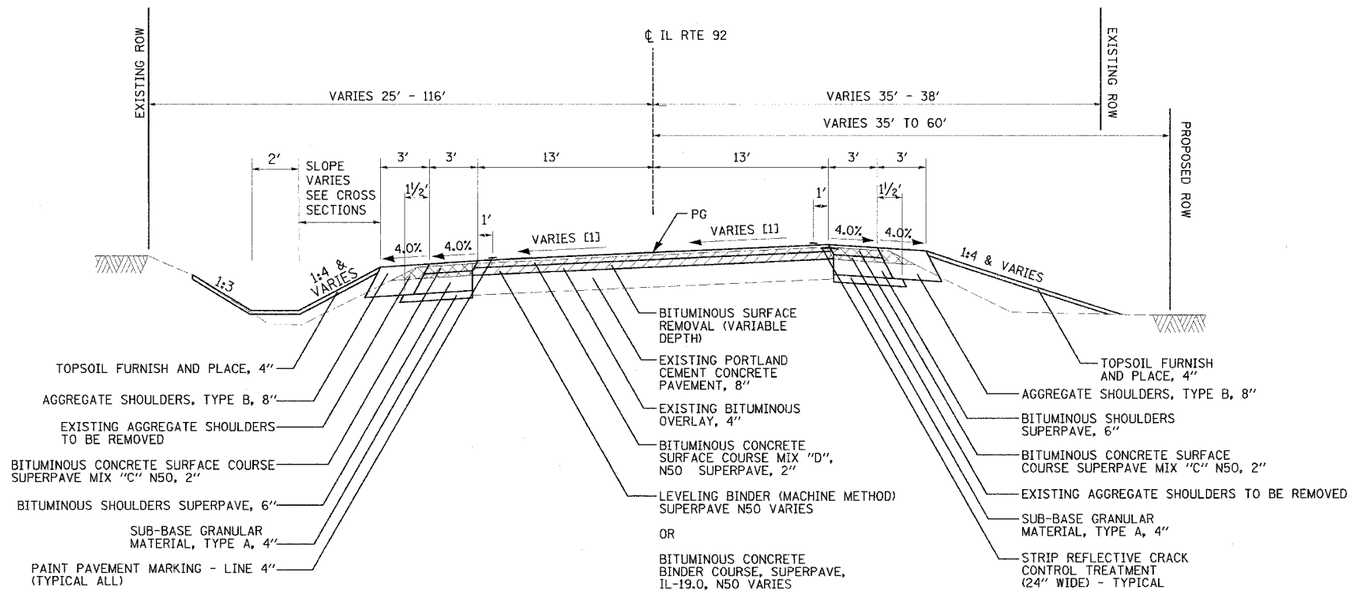


* STA 408+65.51 TO STA 411+70
** STA 404+30 TO STA 408+65.5

EXISTING TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 404+30.00 TO STA 408+20.86
STA 408+20.86 TO STA 408+50.11 EX BRIDGE OMISSION
STA 408+50.11 TO STA 411+46.00



STA	CROSS SLOPE		PAVEMENT ELEVATIONS			EDGE OF BITUMINOUS SHOULDER ELEVATIONS	
	LT	RT	PG	LT	RT	LT	RT
404+30.00	1.50% ↗	1.50% ↘	574.14	573.95	573.95	573.83	573.83
405+58.50	1.50% ↗	1.50% ↘	573.75	573.56	573.56	573.44	573.44
405+96.00	1.50% ↗	0.00%	573.64	573.45	573.64	573.33	573.52
406+33.50	1.50% ↗	1.50% ↗	573.53	573.34	573.73	573.22	573.61
406+96.00	4.00% ↗	4.00% ↗	573.34	572.82	573.86	572.70	573.74
410+83.50	4.00% ↗	4.00% ↗	573.54	573.02	574.06	572.90	573.94
411+15.25	4.00% ↗	2.73% ↗	573.64	573.12	573.99	573.00	573.87
411+46.00	5.23% ↗	1.50% ↗	573.75	573.07	573.95	572.95	573.83

PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 404+30.00 TO STA 407+70.00

[1] SEE PAVEMENT TRANSITION SCHEDULE

STRUCTURAL DESIGN DATA

TYPE OF CONSTRUCTION:		
PAVEMENT DESIGN:		
ROAD CLASSIFICATION		
STRUCTURAL DESIGN TRAFFIC:		
YEAR		2003
PV		6,280
SU		345
MU		275
% SDT IN DESIGN LANE		
PV		91.0%
SU		5.0%
MU		4.0%
TRAFFIC FACTOR		3.81
MINIMUM SOIL SUPPORT:		IBR = 2.95
STRUCTURAL NUMBER:		D† = 5.2
PAVEMENT STRUCTURE		
BC SC SUPER "D" N50	(0.40)	2″
BCBC SUP IL- 19.0 N50	(0.33)	10″
SUB GRAN MAT A	(0.11)	12″

REMOVAL AREAS

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

NOTE:

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12″ CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2″ AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10″
2. SEE SHEET 6 FOR APPLICATION RATES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

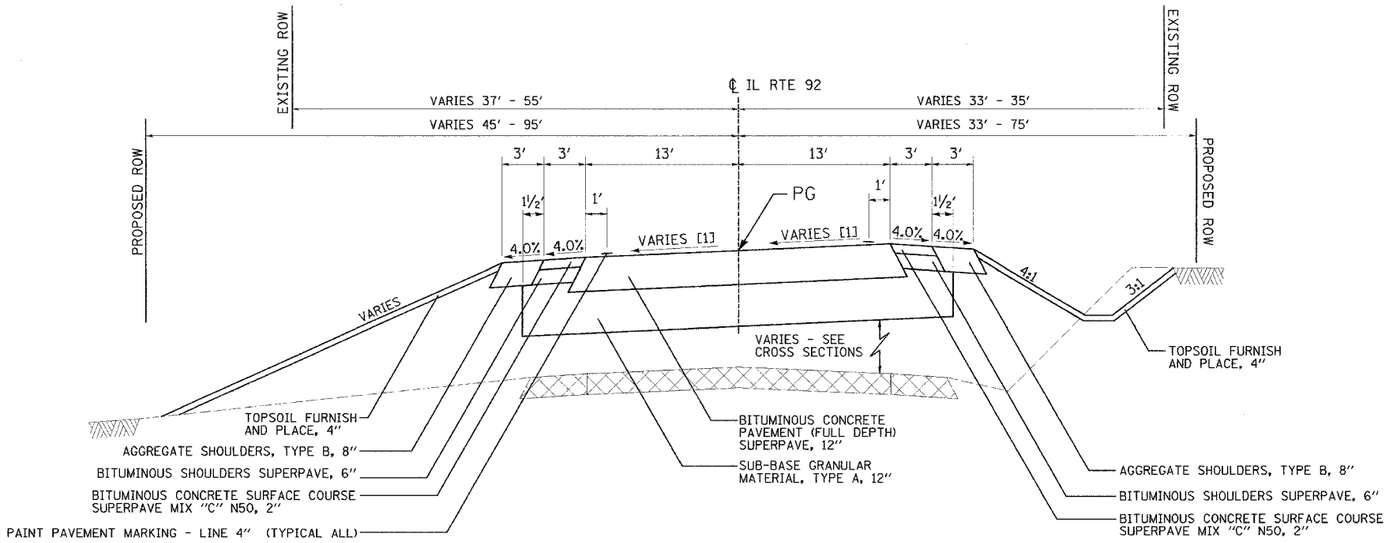
TYPICAL SECTIONS

DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:33:38 PM D16900TYPa.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	76	8
STA. 331+02.50	TO STA. 335+00			
STA. 11+50	TO STA. 13+04.22			
EXISTING CONDITIONS:				

CONTRACT 64641

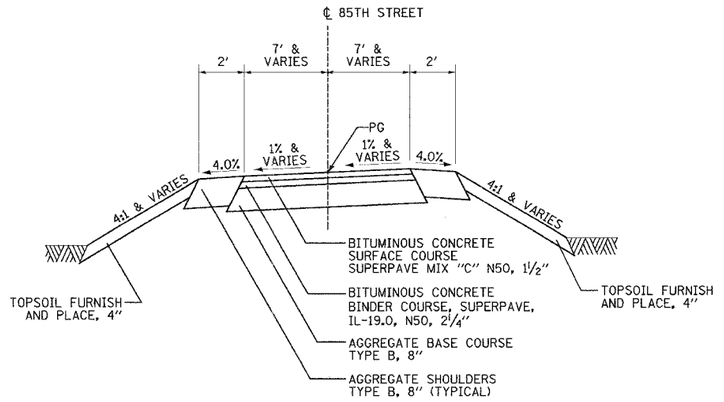


PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 331+02.50 TO STA 335+00.00 LT
STA 331+20.60 TO STA 335+00.00 RT

[1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 6



PROPOSED TYPICAL ROADWAY SECTION - 85TH STREET

STA 11+50.00 TO STA 13+04.22 LT
NOT TO SCALE

APPLICATION RATES

LEVELING BINDER	112 LBS/SQ YD IN
AGGREGATE SHOULDERS, TYPE B	2.05 TONS/CU YD
AGGREGATE BASE COURSE, TYPE B	2.05 TONS/CU YD
BITUMINOUS CONCRETE BINDER COURSE	115 LBS/SQ YD IN
BITUMINOUS CONCRETE SURFACE COURSE	112 LBS/SQ YD IN
INCIDENTAL BITUMINOUS SURFACING	112 LBS/SQ YD IN
ROCK FILL	1.5 TON/CU YD

NOTE:

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"

REMOVAL AREAS

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

TYPICAL SECTIONS

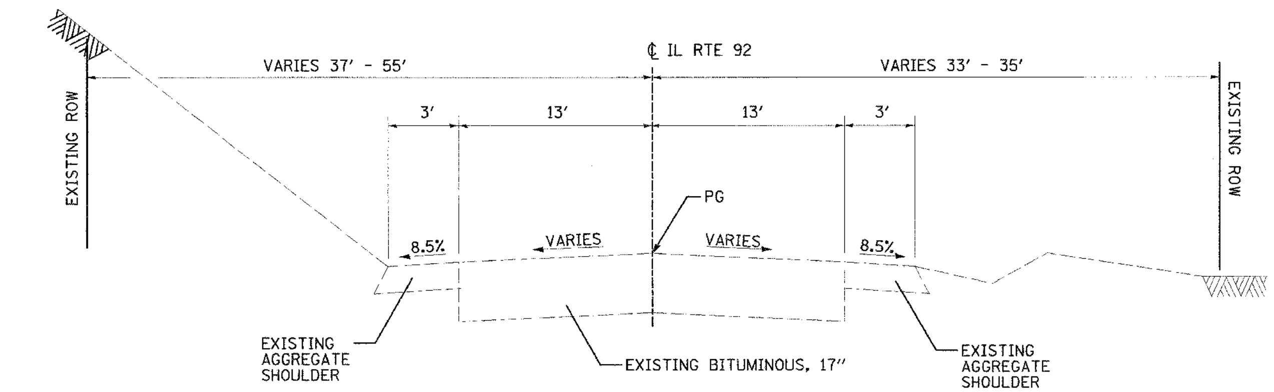
DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:35:09 PM D1690CTYPa.dgn

TYPICAL SECTIONS

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	9
STA. 326+50		TO STA. 336+10		
EXISTING CONDITIONS:				

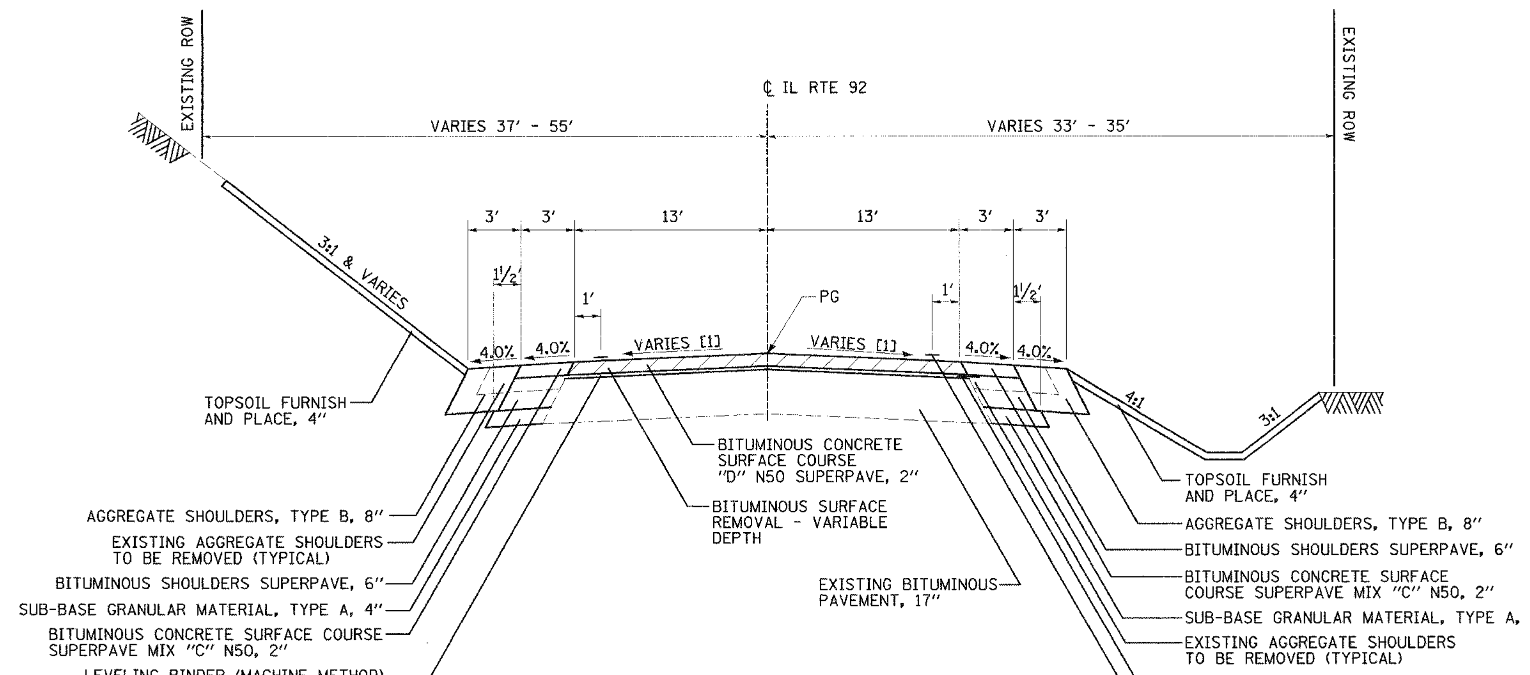
CONTRACT 64641



EXISTING TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 326+50.00 TO STA 336+10.00



PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 326+50.00 TO STA 327+72.07 LT
STA 326+50.00 TO STA 327+34.84 RT
STA 335+00.00 TO STA 336+10.00

[1] SEE PAVEMENT TRANSITION SCHEDULE

PAVEMENT TRANSITION SCHEDULE

STA	CROSS SLOPE		PAVEMENT ELEVATIONS			EDGE OF BITUMINOUS SHOULDER ELEVATIONS	
[redacted]	LT	RT	PG	LT	RT	LT	RT
326+50.00	2.30% ↙	0.37% ↙	593.11	592.81	593.16	592.69	593.04
326+98.25	2.30% ↙	2.30% ↙	592.34	592.04	592.64	591.92	592.52
327+40.75	4.00% ↙	4.00% ↙	591.52	591.00	592.04	590.88	591.92
328+96.58	4.00% ↙	4.00% ↙	587.64	587.12	588.16	587.00	588.04
329+46.58	2.00% ↙	2.00% ↙	586.52	586.26	586.78	586.14	586.66
329+96.58	2.00% ↙	0.00%	585.58	585.32	585.58	585.20	585.46
330+46.58	2.00% ↙	2.00% ↘	584.82	584.56	584.56	584.44	584.44
331+25.00	2.00% ↙	2.00% ↘	583.99	583.73	583.73	583.61	583.61
331+50.00	1.50% ↙	1.50% ↘	583.82	583.63	583.63	583.51	583.51
335+63.75	1.50% ↙	1.50% ↘	587.56	587.37	587.37	587.25	587.25
335+95.75	0.22% ↙	1.50% ↘	588.25	588.22	588.06	588.10	587.94
336+10.00	0.35% ↙	0.93% ↘	588.56	588.61	588.44	588.49	588.32

NOTE:

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"
2. SEE SHEET 6 FOR APPLICATION RATES.

REMOVAL AREAS

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

REVISIONS	
NAME	DATE

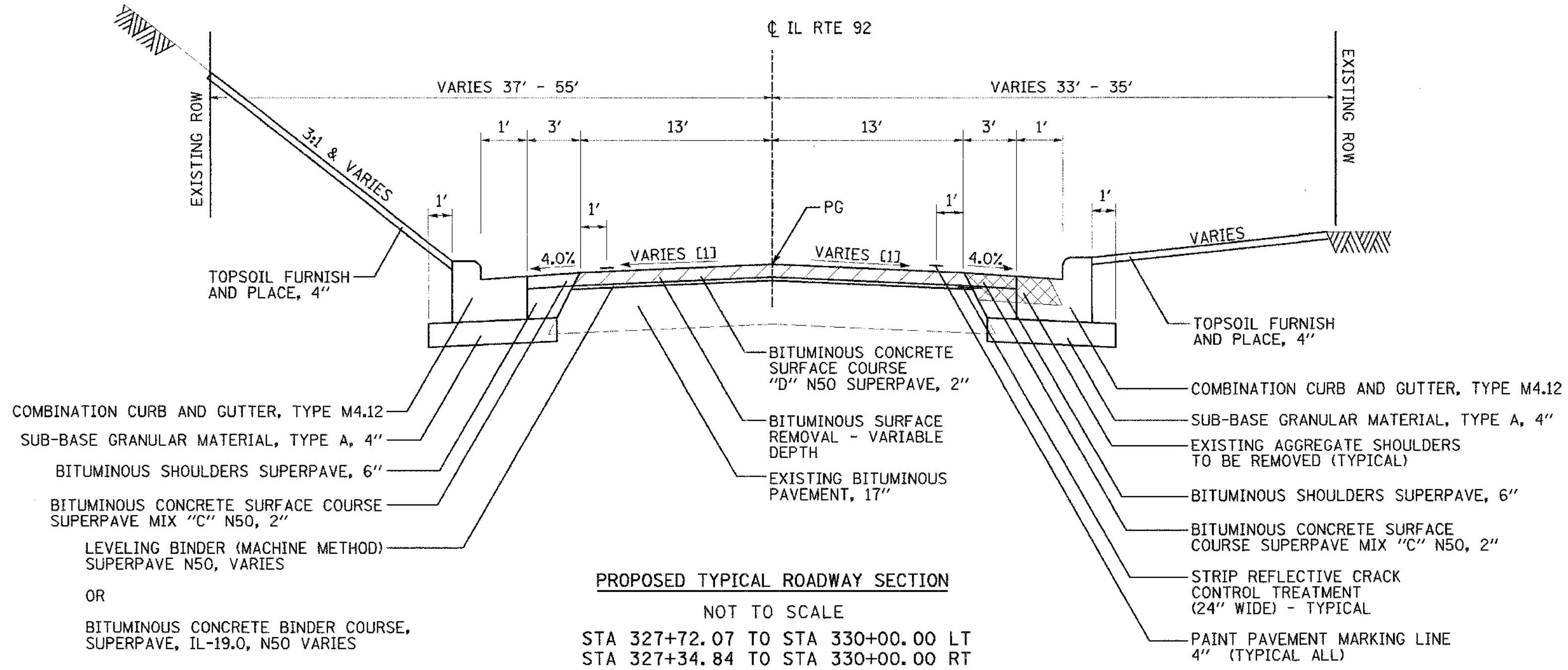
ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

TYPICAL SECTIONS

DRAWN BY: HLC

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	10
STA. 326+50	TO STA. 336+10			
EXISTING CONDITIONS:				

CONTRACT 64641

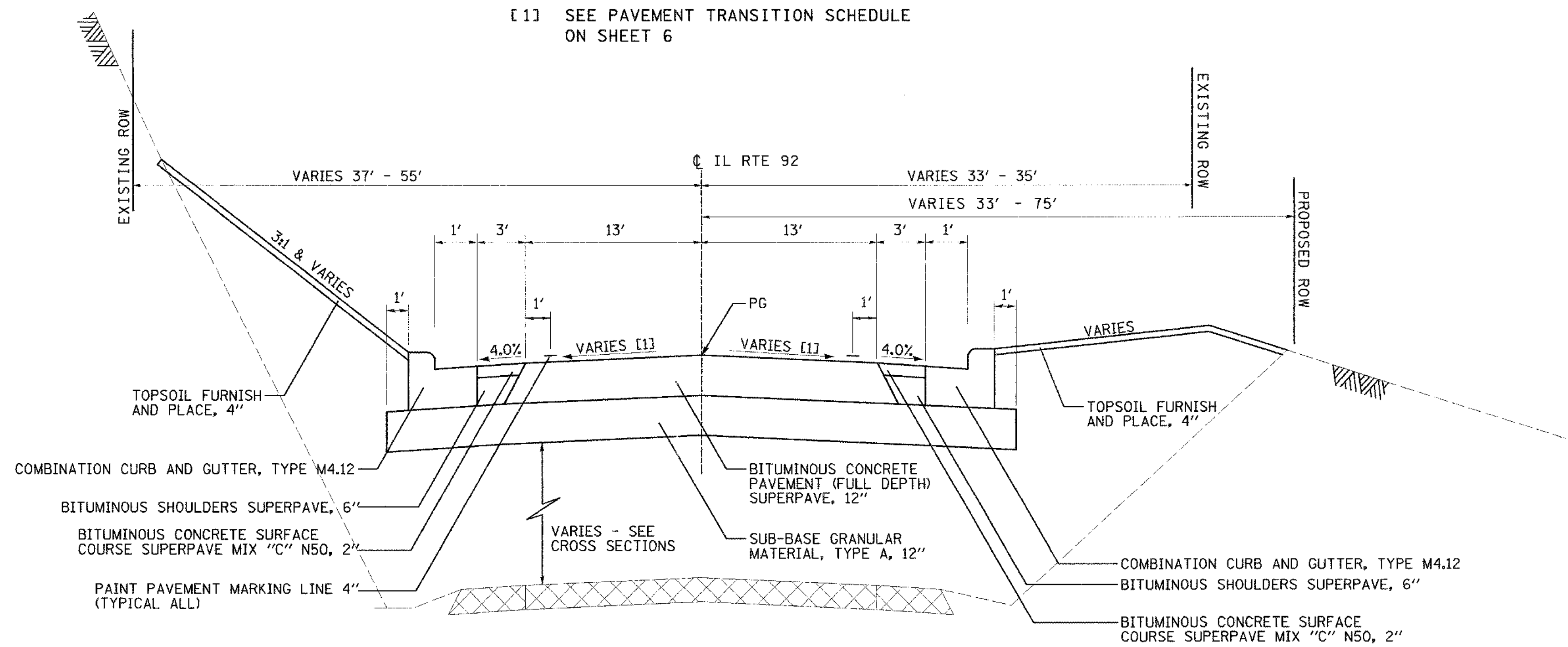


PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 327+72.07 TO STA 330+00.00 LT
STA 327+34.84 TO STA 330+00.00 RT

[1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 6



PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 330+00.00 TO STA 331+02.50 LT
STA 330+00.00 TO STA 331+20.60 RT

[1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 6

NOTE:

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12″ CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2″ AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10″

2. SEE SHEET 6 FOR APPLICATION RATES.

REMOVAL AREAS

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

TYPICAL SECTIONS

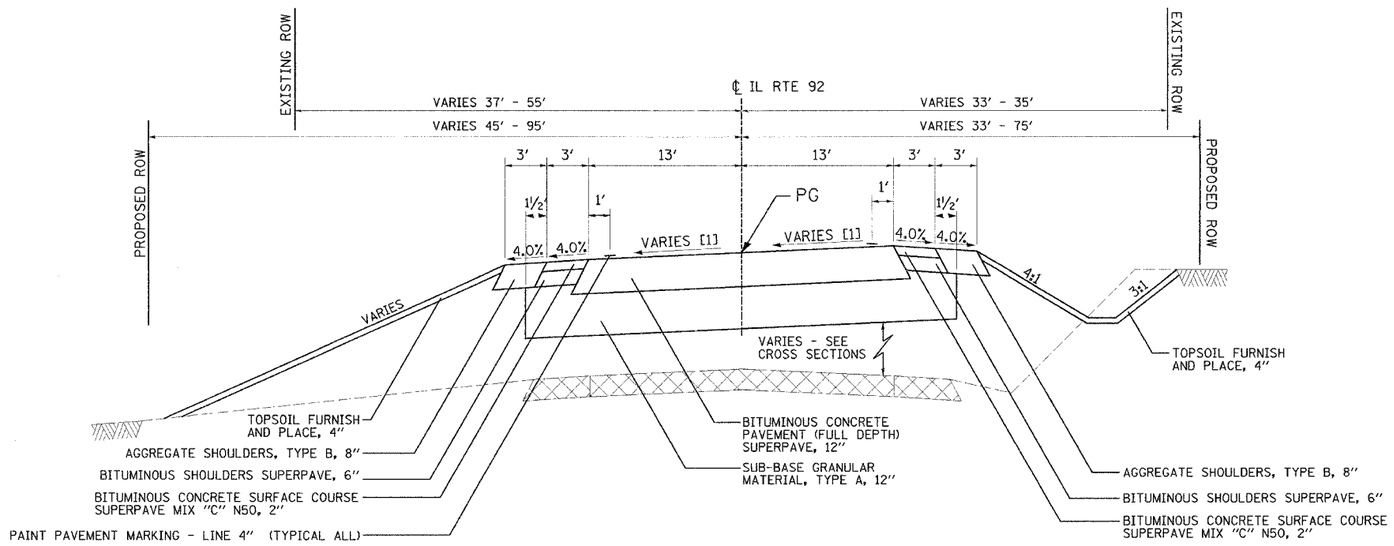
DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:35:43 PM D16900TYPa.dgn

TYPICAL SECTIONS

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	11
STA. 331+02.50		TO STA. 335+00		
STA. 11+50		TO STA. 13+04.22		
EXISTING CONDITIONS:				

CONTRACT 64641

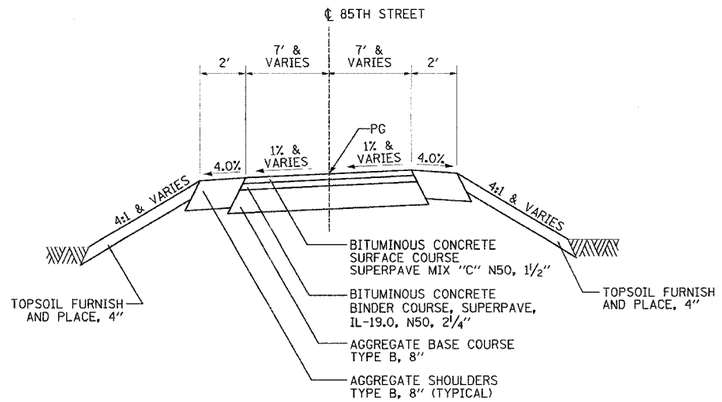


PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE

STA 331+02.50 TO STA 335+00.00 LT
STA 331+20.60 TO STA 335+00.00 RT

[1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 6



PROPOSED TYPICAL ROADWAY SECTION - 85TH STREET

STA 11+50.00 TO STA 13+04.22 LT

NOT TO SCALE

APPLICATION RATES

LEVELING BINDER	112 LBS/SQ YD IN
AGGREGATE SHOULDERS, TYPE B	2.05 TONS/CU YD
AGGREGATE BASE COURSE, TYPE B	2.05 TONS/CU YD
BITUMINOUS CONCRETE BINDER COURSE	115 LBS/SQ YD IN
BITUMINOUS CONCRETE SURFACE COURSE	112 LBS/SQ YD IN
INCIDENTAL BITUMINOUS SURFACING	112 LBS/SQ YD IN
ROCK FILL	1.5 TON/CU YD

NOTE:

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"

REMOVAL AREAS

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

TYPICAL SECTIONS

DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:36:25 PM D16900TYPa.dgn

TYPICAL SECTIONS

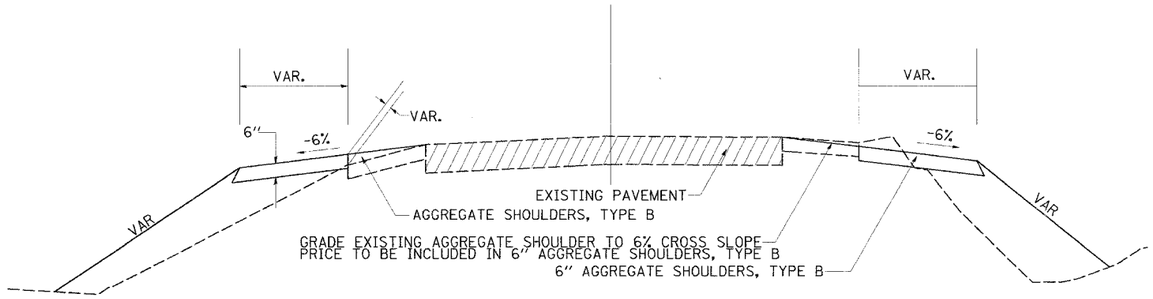
* 42MFT-T, (9BR-2)M, 42MFT-T

CONTRACT NO. 64641

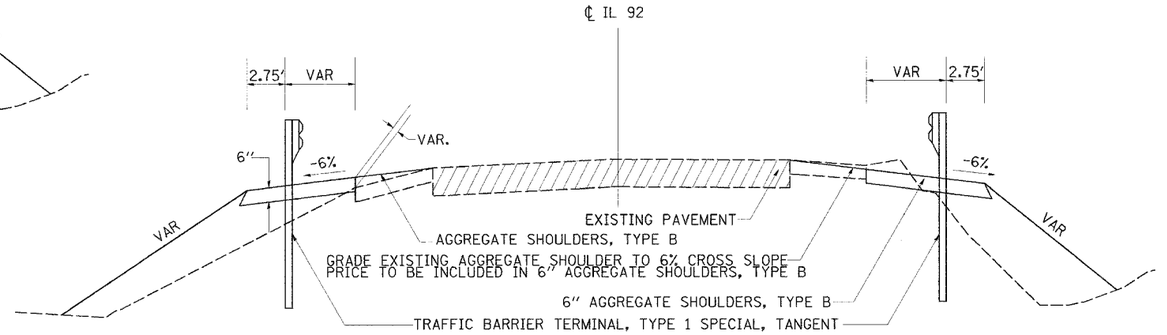
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

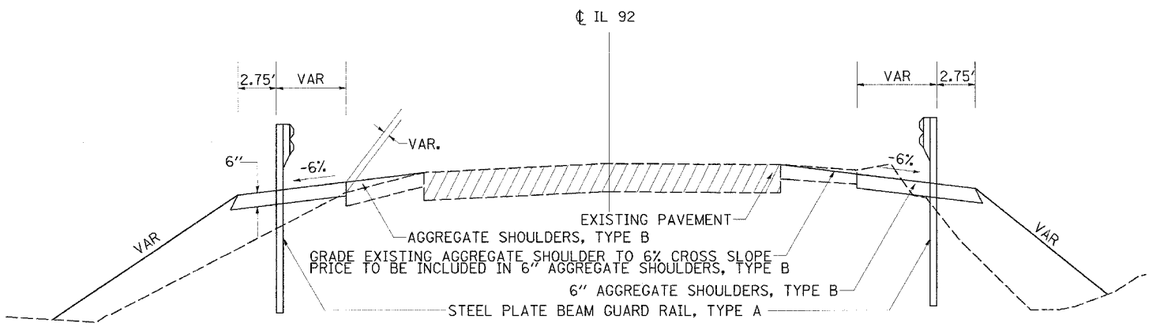
LT STA. 1074+31.28 - LT STA. 1074+85.78
RT STA. 1075+03.86 - RT STA. 1075+13.08
RT STA. 1078+46.03 - RT STA. 1079+31.31
LT STA. 1079+47.01 - LT STA. 1079+98.74



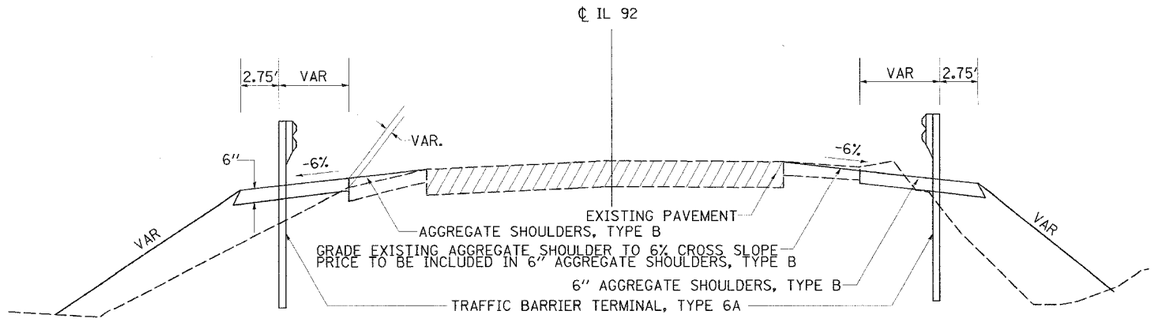
LT STA. 1074+86.58 - LT STA. 1075+35.98
RT STA. 1075+13.08 - RT STA. 1075+62.86
RT STA. 1077+96.25 - RT STA. 1078+46.03
LT STA. 1078+96.79 - RT STA. 1079+47.01



LT STA. 1075+36.00 - LT STA. 1076+09.27
RT STA. 1075+62.86 - RT STA. 1076+00.24
RT STA. 1077+21.54 - RT STA. 1077+96.25
LT STA. 1077+33.69 - LT STA. 1078+96.79



RT STA. 1076+00.24 - RT STA. 1076+33.86
LT STA. 1076+08.27 - LT STA. 1076+43.15
RT STA. 1076+87.92 - RT STA. 1077+21.54
LT STA. 1076+99.80 - LT STA. 1077+33.69



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PLOT SCALE = #SCALE#
USER NAME = #USER#

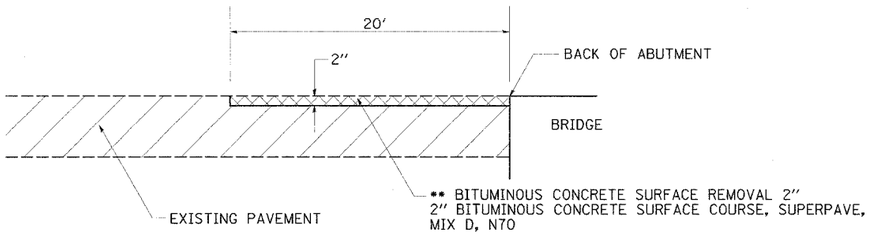
CONTRACT NO. 64641

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL SECTIONS

BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STA 1076+19.54 TO STA 1076+39.54
STA 1076+93.71 TO STA 1077+13.71



* 112 LBS/ IN / SQ YD

PLOT DATE = 8/31/2005
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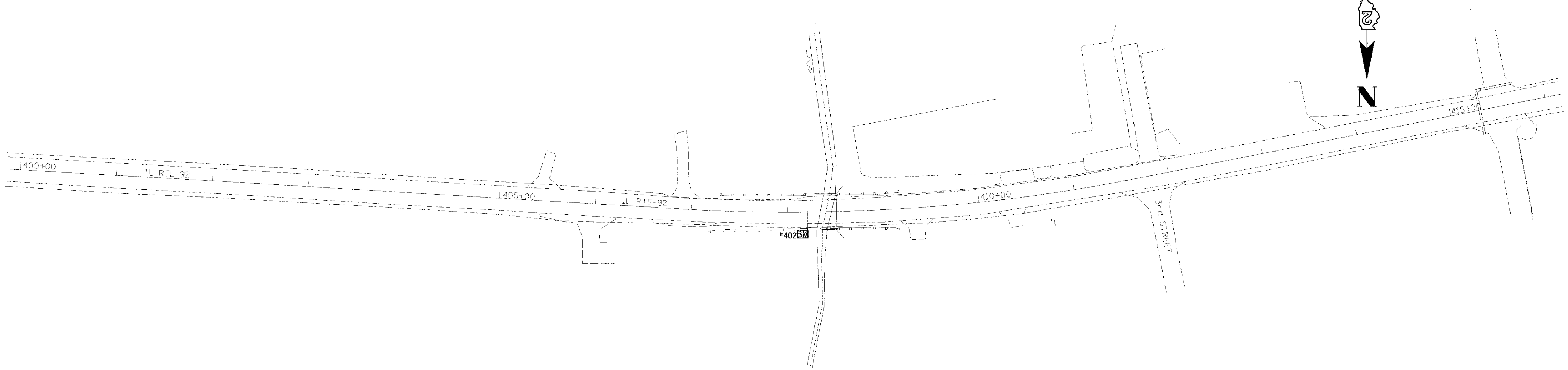
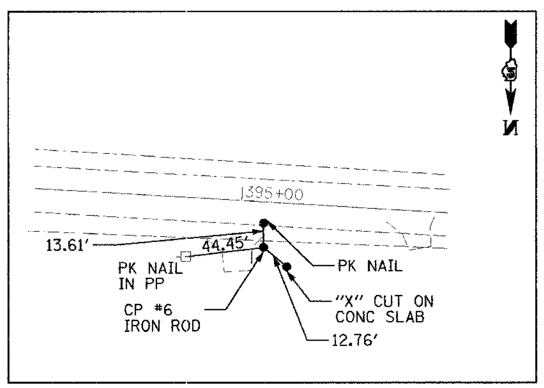
PLOT SCALE = $SCALE$
USER NAME = $USER$

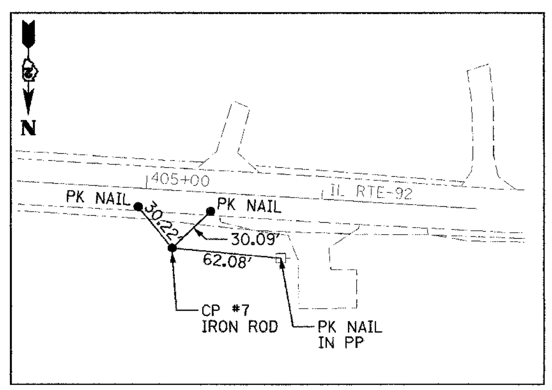
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	14
STA. 404+30	TO STA. 411+46			
EXISTING CONDITIONS:				

CONTRACT 64641

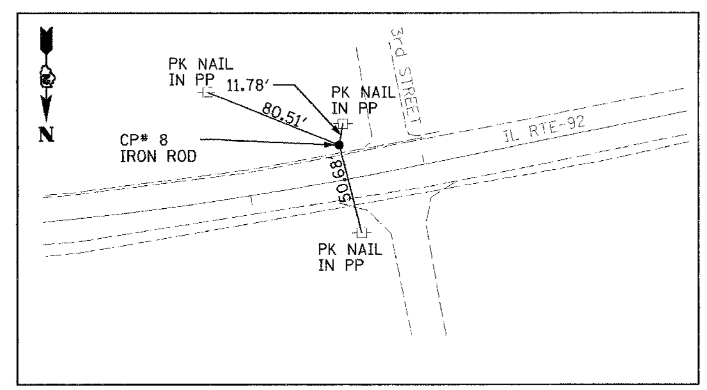




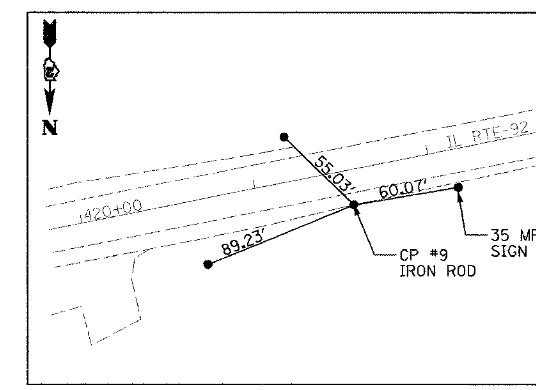
CONTROL POINT #6
STA 395+13.89, 25.46 RT
N 1738880.72
E 2147608.30
ELEV. 580.10



CONTROL POINT #7
STA 405+16.79, 32.33 RT
N 1738947.22
E 2146607.52
ELEV. 570.23



CONTROL POINT #8
STA 411+54.44 19.73' LT
N 1738876.68
E 2145973.68
ELEV. 573.81



CONTROL POINT #9
STA 421+53.26 19.94' LT
N 1738720.66
E 2144986.57
ELEV. 570.97

BENCHMARKS

BM 402 CHIS "□" ON NORTHEAST WINGWALL OF BRIDGE JUST EAST OF ANDALUSIA
STA. 408+20.3 20.4 LT
ELEV. 574.03

BM 403 NORTHEAST BOLT @ ABANDONED TEXACO SOUTHWEST QUAD 3rd ST. & IL 92 (BASE FOR GAS SIGN)
STA.
ELEV. 574.37

NOTE:
BASIS OF BEARINGS AND COORDINATES IS ILLINOIS STATE PLANE (NAD83) WEST ZONE. GROUND VALUES SHOWN (COMBINED GRID FACTOR FOR PROJECT AREA 0.999942580). NGS MONUMENTS BUR40-1A & BUR40-1B WERE USED FOR CONTROL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

ALIGNMENT & TIES
BENCHMARKS

DRAWN BY: HLC

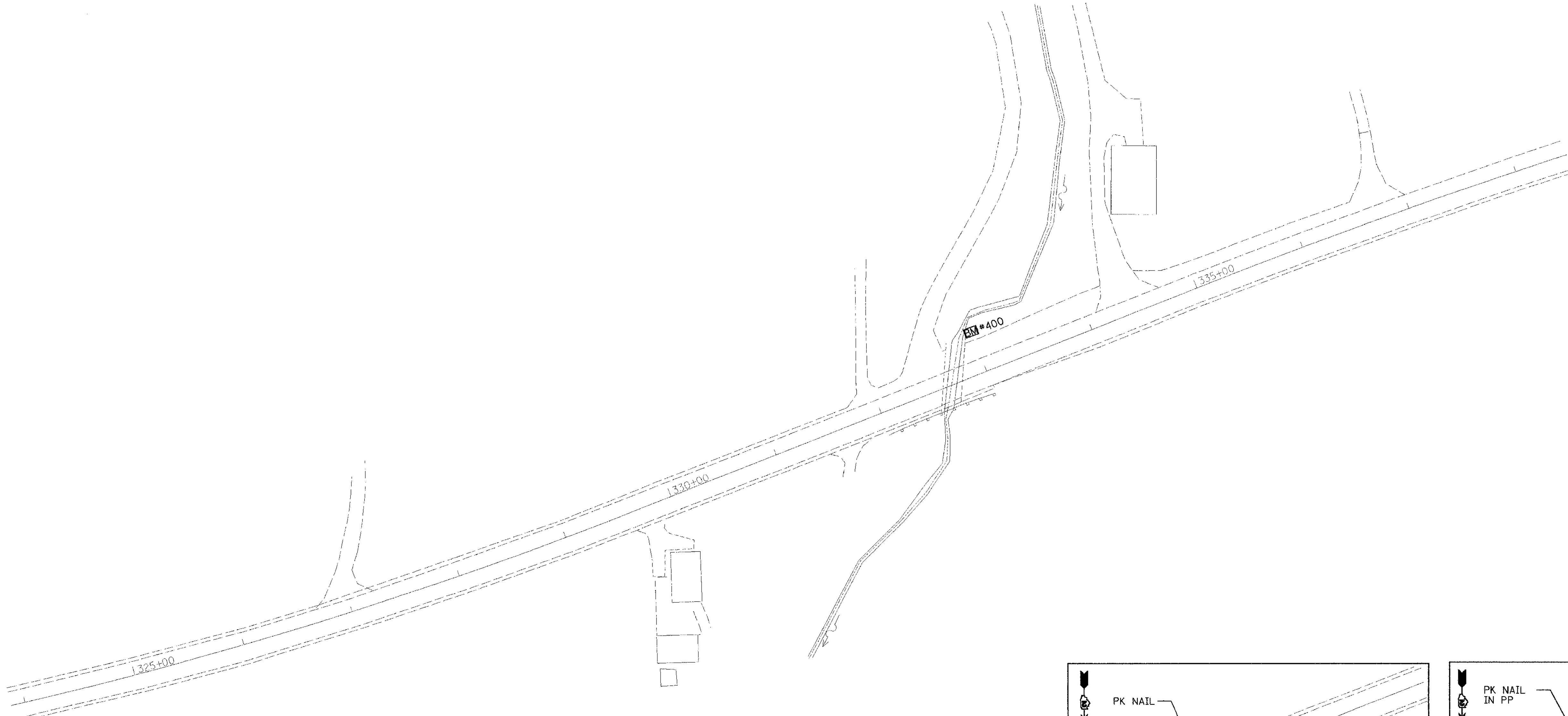
PLAN | NOTE BOOK | SURVEYED | PLOTTED | ALIGNMENT CHECKED | BY | DATE

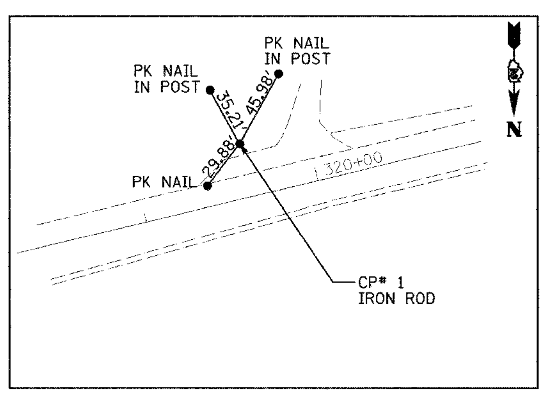
PLOT DATE: 08/31/2005 01:40:18 PM D:6900atb.dgn

ALIGNMENT & TIES / BENCHMARKS

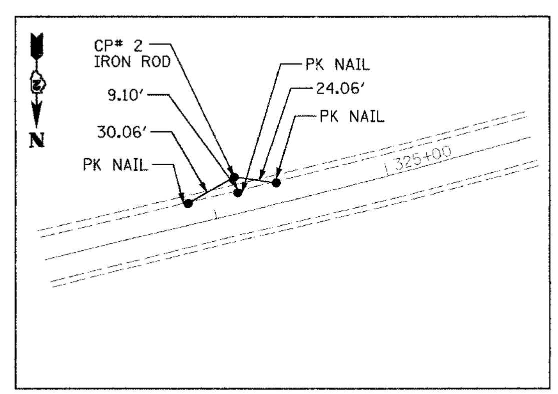
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	15
STA. 326+50	TO STA. 336+10			
EXISTING CONDITIONS:				

CONTRACT 64641

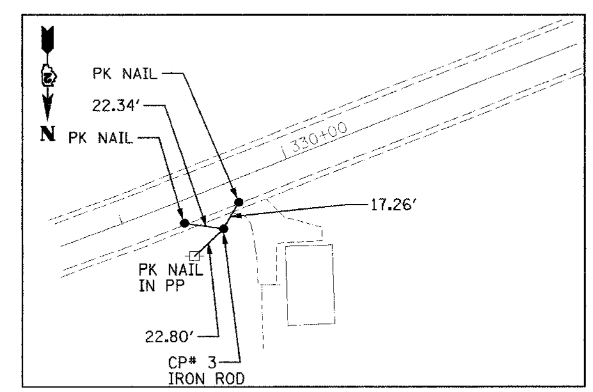




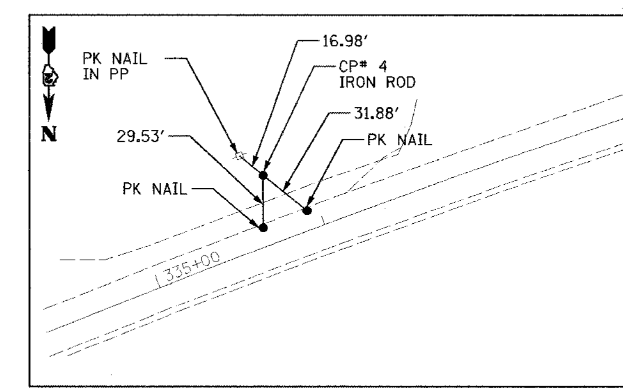
CONTROL POINT #1
STA 319+61.77, 30.64 LT
N 1740274.38
E 2154966.55
ELEV. 589.62



CONTROL POINT #2
STA 324+15.05, 20.37 LT
N 1740178.69
E 2154523.33
ELEV. 595.51



CONTROL POINT #3
STA 329+52.68, 23.18 RT
N 1740060.24
E 2153997.29
ELEV. 585.98



CONTROL POINT #4
STA 335+77.21, 38.46 LT
N 1739774.26
E 2153438.02
ELEV. 589.74

BENCHMARKS

BM 400 CUT "□" SOUTH EAST CORNER OF WEST WINGWALL @ SOUTH WEST QUAD OF IL 92 & 85th ST WEST
STA. 332+97.0 37.8 LT
ELEV. 579.76

BM 401 CUT "□" ON SOUTH HEADWALL .2 MILES WEST OF 85th ST WEST
STA. 344+60.3 17.9 LT
ELEV. 589.23

NOTE:
BASIS OF BEARINGS AND COORDINATES IS ILLINOIS STATE PLANE (NAD83) WEST ZONE. GROUND VALUES SHOWN (COMBINED GRID FACTOR FOR PROJECT AREA 0.999942580). NGS MONUMENTS BUR40-1A & BUR40-1B WERE USED FOR CONTROL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

ALIGNMENT & TIES
BENCHMARKS

DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:40:53 PM D:690Catb.dgn

ALIGNMENT & TIES / BENCHMARKS

PAVEMENT SCHEDULE

LOCATION	LENGTH	BIT SUR RM (VAR DP) (SQ YD)	PAVEMENT REMOVAL (SQ YD)	SUB GRAN MAT A 12 (SQ YD)	SUB GRAN MAT A 4 (SQ YD)	BIT C PVT FD SUP 12 (SQ YD)	LEV BIND MM SUPER N50 (TON)	LEV BIND HM SUPER N50 (TON)	BC BC SUP IL-19.0 N50 (TON)	BC SC SUPER "D", N50 (TON)	BC SC SUPER "C", N50 (TON)	BIT SHLD SUPER 6 (SQ YD)	AGG SHLDS B (TON)	INCD BIT SUR SUPER (TON)	AGG BASE CSE B (TON)
SECTION 42MFT-BR															
404+30.00 405+00.00	70.0	200.7					10.3	1.1		22.7					
411+00.00 411+46.00	46.0	132.4			34.5					14.9					
405+00.00 407+70.00	270.0								112.2	87.7					
404+30.00 407+70.00	340.0				179.7										
407+70.00 411+00.00	330.0		936.3	1,205.7		953.3									
404+30.00 411+46.00	716.0										18.1	161.1	102.6		
405+50.00 LT ENTRANCE														10.4	42.3
406+85.00 LT ENTRANCE														17.9	72.7
406+00.00 RT ENTRANCE														12.4	50.4
406+91.00 RT ENTRANCE														5.5	22.2
410+37.00 LT ENTRANCE														55.4	224.5
(INCLUDES PARKING LOT)															
409+35.00 & 410+37.00 RT ENTRANCE														28.2	114.4
SUBTOTAL SECTION 42MFT-BR		333.1	936.3	1,205.7	214.2	953.3	10.3	1.1	112.2	125.3	18.1	161.1	102.6	129.8	526.5
ROUNDED SUBTOTAL SECTION 42MFT-BR		334	937	1,206	215	954	11	2	113	126	19	162	103	130	527
326+50.00 329+50.00	300.0	645.0													
335+55.00 336+10.00	55.0	79.4													
330+00.00 335+00.00	500.0		1,455.8	1,611.1		1,444.4									
327+77.00 331+02.50	325.5				191.2										
327+00.00 328+00.00	100.0						4.5	0.4							
335+60.00 336+00.00	40.0						3.5	0.4							
328+00.00 330+00.00	200.0								70.7						
335+00.00 335+60.00	60.0								39.0						
326+50.00 330+00.00	350.0									113.6					
335+00.00 336+10.00	110.0									35.7					
326+50.00 336+10.00	960.0										51.4	457.4	131.3		
11+50.00 13+04.20	154.2		351.1						35.7		31.8				154.5
332+30.00 RT DRAIN FOR AGGREGATE BASE COURSE				3.3											
332+30.00 LT DRAIN FOR AGGREGATE BASE COURSE				4.0											
327+10.00 RT ENTRANCE														4.5	18.3
327+10.00 LT ENTRANCE														23.2	94.1
329+78.00 RT ENTRANCE														13.9	56.5
331+52.00 RT ENTRANCE															105.9
332+00.00 LT ENTRANCE														12.4	50.3
334+31.00 LT ENTRANCE														28.4	115.3
100+00.00 101+00.00 EMERGENCY ACCESS BYPASS	100.0														142.3
SUBTOTAL SECTION 42MFT-T		724.4	1,806.9	1,618.4	191.2	1,444.4	8.0	0.8	145.4	149.3	83.2	457.4	131.3	82.4	737.2
ROUNDED SUBTOTAL SECTION 42MFT-T		725	1,807	1,619	192	1,445	8	1	146	150	84	458	132	83	738
SCHEDULE TOTAL		1,059	2,744	2,825	407	2,399	19	3	259	276	103	620	235	213	1,265

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6-15 UNITS DIAMETER) (UNITS)
SECTION 42MFT-BR	
408+54.9 54.40 LT	12
408+61.8 56.80 LT	12
SUBTOTAL SECTION 42MFT-BR	24
SECTION 105-T	
332+63.8 40.9 RT	12
332+55.4 52.2 RT	12
332+73.7 60.5 RT	12
332+67.0 64.9 RT	12
332+52.9 66.9 RT	12
332+48.2 62.8 RT	12
332+46.1 68.1 RT	12
332+38.7 45.1 RT	12
332+28.7 46.2 RT	12
332+26.4 46.5 RT	12
332+19.2 50.5 RT	12
332+16.9 50.9 RT	12
332+13.2 50.2 RT	12
332+06.2 47.4 RT	12
332+02.2 48.1 RT	12
332+00.0 41.4 RT	12
332+28.7 54.4 RT	12
332+25.1 57.5 RT	12
332+22.4 61.3 RT	12
332+14.4 62.0 RT	12
332+03.1 59.6 RT	12
333+84.2 78.8 LT	12
333+83.8 81.3 LT	12
SUBTOTAL SECTION MFT-T	276
SCHEDULE TOTAL	300

PIPE CULVERT SCHEDULE

LOCATION: STATION OFFSET TO STATION OFFSET	PIPE CULVERTS CLASS D TYPE 1, 15" (FOOT)	PIPE CULVERTS CLASS D TYPE 2, 15" (FOOT)	STEEL END SECTIONS 15" (EACH)
SECTION 42MFT-BR			
405+36.98 32.91 LT 405+64.90 35.03 LT	28		2
409+19.06 35.21 RT 409+47.89 31.51 RT	30		2
406+65.15 45.40 LT 407+08.07 50.14 LT		44	2
SUBTOTAL SECTION 42MFT-BR	58	44	6
SECTION 42MFT-T			
334+55.5 42.6 LT 334+05.5 61.5 LT	54		2
SUBTOTAL SECTION 42MFT-T	54		2
FROM OTHER SCHEDULES			1
SCHEDULE TOTAL	112	44	9

DELINEATOR SCHEDULE

STATION OFFSET	DELINEATORS (EACH)
SECTION 42MFT-BR	
408+70.30 38.9 RT	1
SUBTOTAL SECTION 42MFT-BR	1
SECTION 42MFT-T	
331+92.9 63.6 RT	1
332+96.6 53.9 LT	1
SUBTOTAL SECTION 42MFT-T	2
SCHEDULE TOTAL	3

PERMANENT SURVEY MARKERS TYPE II SCHEDULE

LOCATION	PERMANENT SURVEY MARKERS TYPE II (EACH)
SECTION 42MFT-BR	1
SECTION 42MFT-T	1
SCHEDULE TOTAL	2

NOTE: LOCATIONS TO BE DETERMINED BY THE ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR & 42MFT-T
ROCK ISLAND COUNTY

SCHEDULE OF QUANTITIES

DRAWN BY: HLC

PLOT DATE: 08/31/2005 01:44:27 PM PAVE SCHEDULE.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	17
STA.		TO STA.		
EXISTING CONDITIONS:				

CONTRACT 64641

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	EARTH EXCAVATION TO BE USED AS EMBANKMENT ADJUSTED FOR SHRINKAGE * (CU YD)	EMBANKMENT * (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) * (CU YD)	TOPSOIL FURNISH AND PLACE 4" (SQ YD)
SECTION 42MFT-BR						
STAGE 1	449		359	364	-5	
STAGE 2	706		565	366	199	1,035
STAGE 3	117		93		93	
STAGE 4	774		619	398	221	1,638
CHANNEL		80				
SUBTOTAL SECTION 42MFT-BR	2,046	80	1,636	1,128	508	2,673
SECTION 42MFT-T						
STA 326+00 TO 336+50	1,358		1,086	3,851	-2,765	3,870
85TH STREET	12		10	383	-373	531
CHANNEL		112		12	-12	
EMERGENCY ACCESS BYPASS - CONSTRUCTION	7		6	227	-221	
EMERGENCY ACCESS BYPASS - REMOVAL	227		182	7	175	634
SUBTOTAL SECTION 42MFT-T	1,604	112	1,284	4,480	-3,196	5,035
SCHEDULE TOTAL	3,650	192	2,920	5,608	-2,688	7,708

NOTES:
1. SHRINKAGE FACTOR USED = 20%
2. TOPSOIL FURNISH AND PLACE IS NOT INCLUDED IN ANY OTHER QUANTITIES.
3. (*) PROVIDED FOR INFORMATION ONLY.
4. IF QUANTITY FOR EARTHWORK BALANCE IS NEGATIVE (-), THEN THIS QUANTITY IS TO BE PAID FOR AS FURNISHED EXCAVATION.

PAVEMENT MARKING SCHEDULE

LOCATION STATION	OFFSET	TO STATION	OFFSET	PAINT PAVEMENT MARKING - LINE 4 WHITE EDGE LINE (FOOT)	DOUBLE YELLOW ℄ (FOOT)	RAISED REF PVT MKR (EACH)
SECTION 42MFT-BR						
404+30.00	12 LT	411+46.00	12 LT	716		
404+30.00	12 RT	411+46.00	12 RT	716		
404+30.00	0	411+46.00	0		1,432	19
FIRST APPLICATION SUBTOTAL				2,864		
SECOND APPLICATION SUBTOTAL				2,864		
SECTION 42MFT-BR SUBTOTAL				5,728		19
SECTION 42MFT-T						
326+50.00	12 LT	336+10.00	12 LT	960		
326+50.00	12 RT	326+10.00	12 RT	960		
326+50.00	0.3 LT	326+10.00	0.3 LT		960	
326+50.00	0.3 RT	326+10.00	0.3 RT		960	
326+50.00	0	326+10.00				25
FIRST APPLICATION SUBTOTAL				3,840		
SECOND APPLICATION SUBTOTAL				3,840		
SECTION 42MFT-T SUBTOTAL				7,680		25
SCHEDULE TOTAL				13,408		44

TEMPORARY RAMP SCHEDULE

LOCATION	AREA (SQ YD)
SECTION 42MFT-BR	
404+30.00 TO 404+33.00	9
411+43.00 TO 411+46.00	9
SECTION 42MFT-BR SUBTOTAL	18
SECTION 42MFT-T	
326+50.00 TO 326+53.00	9
336+07.00 TO 336+10.00	9
SECTION 42MFT-T SUBTOTAL	18
SCHEDULE TOTAL	36

GUARDRAIL REMOVAL

LOCATION STATION	OFFSET	TO STATION	OFFSET	GUARDRAIL REMOVAL (FOOT)
SECTION 42MFT-BR				
407+29.37	15.91 LT	408+19.83	16.66 LT	90.5
408+53.04	16.51 LT	408+91.66	15.45 LT	38.6
408+91.66	15.45 LT	409+17.59	16.29 LT	25.9
407+18.49	21.89 RT	407+42.71	19.22 RT	24.4
407+42.71	19.22 RT	408+21.30	17.93 RT	78.6
408+51.94	18.04 RT	408+90.79	18.59 RT	38.9
408+90.79	18.59 RT	409+15.75	21.11 RT	25.1
SUBTOTAL SECTION 42MFT-BR				322.0
ROUNDED SUBTOTAL 42MFT-BR				322
SECTION 42MFT-T				
331+99.32	20.42 RT	332+24.61	19.33 RT	25.3
332+24.61	19.33 RT	332+74.80	19.27 RT	50.2
332+74.80	19.27 RT	332+99.80	20.50 RT	25.0
SUBTOTAL SECTION 42MFT-T				100.5
ROUNDED SUBTOTAL 42MFT-T				101
SCHEDULE TOTAL				423

FIELD TILE *

LOCATION	EXPLORATION TRENCH 52" DEPTH (FT)	PIPE DRAINS 6" (FT)	8" (FT)	10" (FT)	12" (FT)	FIELD TILE JUNCTION VAULTS 3' DIA (EACH)	MISCELLANEOUS CONCRETE (CU YD)
SECTION 42MFT-T	50	50	50	50	50	1	1
SCHEDULE TOTAL	50	50	50	50	50	1	1

* CONTINGENCY QUANTITIES IN THE EVENT FIELD TILE IS ENCOUNTERED.

CONCRETE GUTTER, TYPE B & CLASS SI (OUTLET), SPECIAL

LOCATION	GUTTER TYPE B (FOOT)	CLASS SI CONCRETE (OUTLET), SPECIAL (CUBIC YARD)	GRATES & COVERS, TY 2B (EACH)	PIPE DRAINS 15" (FOOT)	STEEL END SECTIONS 15" (EACH)
SECTION 42MFT-BR					
407+70.00 TO 408+50.60 LT	80.6	2.2			
408+50.60 TO 408+89.40 LT					
408+89.40 TO 411+70.10 LT	280.7				
408+70.00 LT			1	54	1
FROM OTHER SCHEDULES					8
SCHEDULE TOTAL	362	2.2	1	54	9

RIP RAP SCHEDULE

LOCATION	STONE RIP RAP CLASS A5 (SQ YD)	FILTER FABRIC FOR USE WITH RIP RAP (SQ YD)
SECTION 42MFT-T		
332+54.00 RT	170	170
333+42.00 LT	103	103
SCHEDULE TOTAL	273	273

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR & 42MFT-T
ROCK ISLAND COUNTY

SCHEDULE OF QUANTITIES

DRAWN BY: HLC

PLOT DATE: 08/31/200501:49:15 PM PAVE SCHEDULE.dgn

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

20200100 EARTH EXCAVATION

CU YD	LOCATION				
21.3	1074+	31.28-	1076+	43.26	LT & RT
19.7	1076+	89.93-	1079+	98.74	LT & RT
41	TOTAL				

20400800 FURNISHED EXCAVATION

CU YD	LOCATION				
101.0	1074+	31.28-	1076+	43.26	LT & RT
227.0	1076+	89.93-	1079+	98.74	LT & RT
328	TOTAL				

25000200 SEEDING CLASS 2

ACRE	LOCATION				
0.12	1074+	31.28-	1076+	43.26	LT & RT
0.12	1076+	89.93-	1079+	98.74	LT & RT
0.24	TOTAL				

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION				
347	1074+	31.28-	1076+	43.26	LT & RT
508	1076+	89.93-	1079+	98.74	LT & RT
855	TOTAL				

44000007 BITUMINOUS SURFACE REMOVAL 2"

SQ YD	LOCATION			
58	1076+	19.54-	1076+	39.54
57	1076+	93.75-	1077+	13.71
115	TOTAL			

48101200 AGGREGATE SHOULDERS, TYPE B

TON	LOCATION			
68	1074+	31-	1076+	43.26LT
59	1075+	3.86	1076+	33.86RT
91	1076+	99.8	1079+	98.74LT
82	1076+	87.92-	1079+	31.31RT
300	TOTAL			

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A

FOOT	LOCATION			
75	1075+	33.99 -	1076+	9.27LT
37.5	1075+	62.86 -	1076+	0.24RT
75	1077+	21.54 -	1077+	96.25RT
162.5	1077+	33.69 -	1078+	97.01LT
350	TOTAL			

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

EACH	LOCATION			
1	1076+	0.24 -	1076+	33.86RT
1	1076+	9.27 -	1076+	43.15LT
1	1076+	87.92 -	1077+	21.54RT
1	1076+	99.8 -	1077+	33.69LT
4	TOTAL			

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

EACH	LOCATION			
1	1074+	83.81 -	1075+	33.99LT
1	1075+	13.08 -	1075+	62.86RT
1	1077+	96.25 -	1078+	46.03RT
1	1078+	97.01 -	1079+	47.01LT
4	TOTAL			

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION			
67	1075+	32.95 -	1076+	0.24RT
100	1075+	43.69 -	1076+	44.09LT
100	1076+	88.34 -	1077+	88.74RT
100	1077+	0.12 -	1078+	1.57LT
367	TOTAL			

63500105 DELINEATORS

EACH	LOCATION		
1	1074+	85.78	LT
1	1075+	13.08	RT
1	1078+	46.03	RT
1	1079+	47.01	LT
4	TOTAL		

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
310	1075+	17.66-	1078+	27.26(STAGE 1)
310	TOTAL			

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
310	1075+	17.66-	1078+	27.26(STAGE 2)
310	TOTAL			

78001110 PAINT PAVEMENT MARKING LINE 4"

FOOT	LOCATION				
120	1073+	46.85 -	1075+	77.5	SKIP DASH - 2 COATS
60	1076+	19.54 -	1077+	13.71	SKIP DASH - 2 COATS
377	1076+	19.54 -	1077+	13.71	WHITE EDGELINES - 2 COATS
60	1077+	67.5 -	1079+	98.2	SKIP DASH - 2 COATS
617	TOTAL				

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION			
4	1074+	85.78 -	1076+	33.86LT
4	1075+	13.08 -	1076+	43.15RT
4	1076+	87.92 -	1078+	46.03RT
4	1076+	99.8 -	1079+	47.01LT
16	TOTAL			

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION	
1	1074+	85.78 LT
1	1075+	13.08 RT
1	1078+	46.03 RT
1	1079+	47.01 LT
4	TOTAL	

78300505 PAINT PAVEMENT MARKING REMOVAL

FOOT	LOCATION			
60	1073+	46.85 -	1075+	77.5(SKIP DASH)
60	1077+	67.5 -	1079+	98.2(SKIP DASH)
120	TOTAL			

28000250 TEMPORARY EROSION CONTROL

POUND	LOCATION				
8	1074+	31.28-	1076+	43.26	LT & RT
12	1076+	89.93-	1079+	98.74	LT & RT
20	TOTAL				

X4066414 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50

TON	LOCATION			
10	1076+	19.54-	1076+	39.54
10	1076+	93.75-	1077+	13.71
20	TOTAL			

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH			
1	1075+	17	STAGE 1
1	1078+	27	STAGE 1
2	TOTAL		

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH			
1	1075+	17	STAGE 2
1	1078+	27	STAGE 2
2	TOTAL		

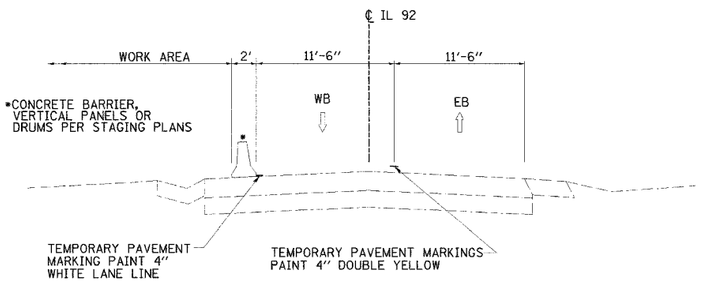
25200110 SODDING, SALT TOLERANT

SQ YD	
776	408+ 60 - 410+10 LT, 410+ 55 - 411 +70 LT
776	TOTAL

PLOT DATE = 6/30/2005
FILE NAME = #FILE1#
PLOT SCALE = #SCALE#
USER NAME = #USER#

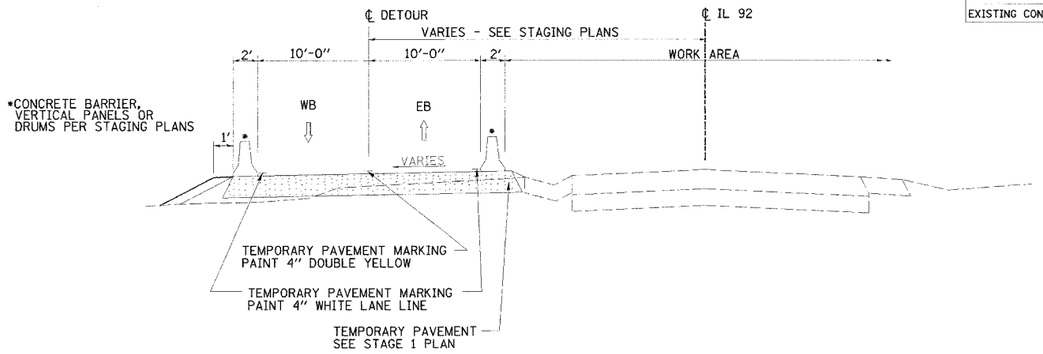
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	19
STA. 404+30	TO STA. 411+46			
EXISTING CONDITIONS:				

CONTRACT 64641



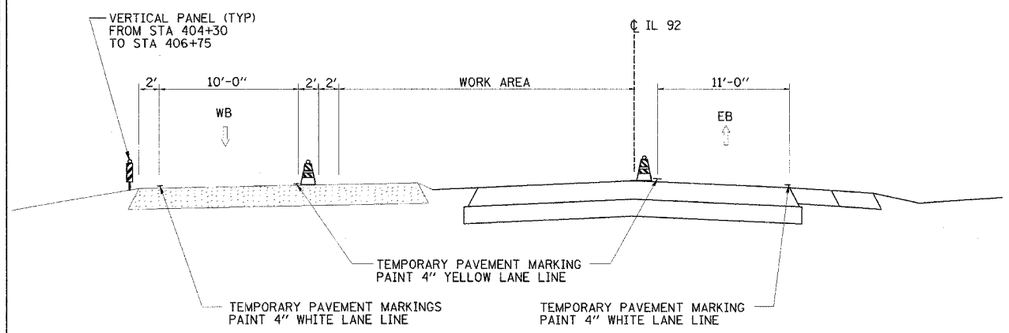
STAGE 1

STA 406+25 TO STA 408+54



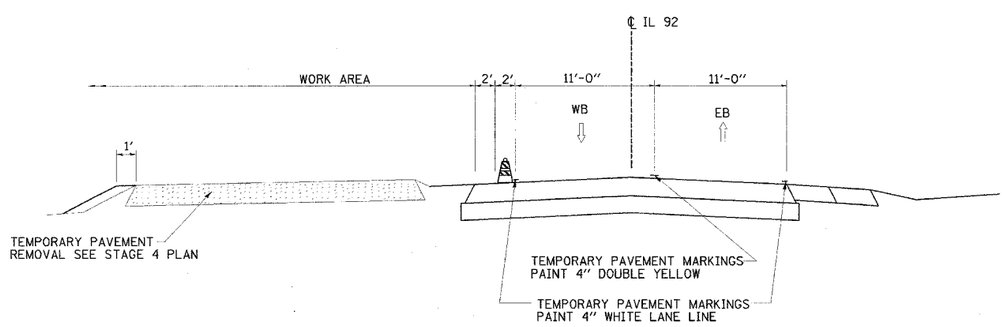
STAGE 2

STA 404+30 TO STA 411+63.5



STAGE 3

STA 409+20 TO STA 410+40



STAGE 4

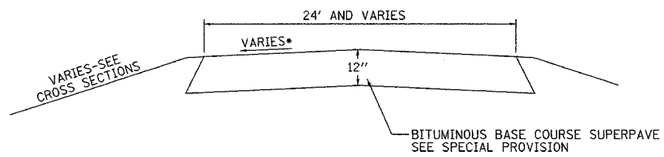
STA 404+30 TO STA 411+63.5

MAINTAIN TRAFFIC ON IL 92 WITH DAYTIME LANE CLOSURES IN ACCORDANCE WITH STANDARD 701306 FOR PLACEMENT OF FINAL WEARING SURFACE AND PAVEMENT MARKINGS.

LANDSCAPING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD 701101.

STAGE 5

STA 404+30 TO STA 411+46



TEMPORARY PAVEMENT TYPICAL SECTION

• SEE STAGE 1 PLAN TEMPORARY PAVEMENT SCHEDULE FOR STATION, OFFSET, ELEVATION AND CROSS SLOPE.

TRAFFIC CONTROL NOTES

1. DURING THE CONSTRUCTION PERIOD IT IS THE INTENTION OF THE DEPARTMENT THAT IL 92 AND ALL ADJACENT SIDE STREETS REMAIN OPEN TO TWO-WAY THROUGH TRAFFIC AT ALL TIMES EXCEPT AS DESCRIBED HEREIN. THIS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS AND AS SHOWN AND DESCRIBED IN THESE PLANS.
2. THE CONTRACTOR SHALL ORGANIZE THE CONSTRUCTION ACTIVITIES SO THAT CONSTRUCTION PROCEEDS IN AN EXPEDITIOUS MANNER SO CLOSURES AND ADVERSE TRAVEL PERIODS ARE MINIMIZED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STAGE CONSTRUCTION OF ALL CULVERTS AND APPURTENANT DRAINAGE ITEMS TO ENSURE NO CONFLICT WITH THE ROADWAY CONSTRUCTION STAGES AND TRAFFIC MOVEMENTS. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING THE VARIOUS STAGES OF CONSTRUCTION. PONDING OF WATER ON THE ROADWAY WILL NOT BE ALLOWED.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO THE PRIVATE, FIELD, AND COMMERCIAL ENTRANCES TO PROPERTIES ABUTTING THE ROADWAY BEING IMPROVED IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. ACCESS TO THE COMMERCIAL PROPERTIES SHALL, AT NO TIME, BE SHUT OFF COMPLETELY. GAP WIDENING, HALF-WIDTH CONSTRUCTION, AND TEMPORARY GRAVEL SURFACES SHALL BE USED TO PROVIDE ALL-WEATHER ACCESS TO THE ABOVE LOCATIONS. AT NO TIME SHALL A PRIVATE ENTRANCE BE CLOSED FOR MORE THAN EIGHT HOURS. THE COST OF PROVIDING ACCESS TO ENTRANCES DURING CONSTRUCTION SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR "TEMPORARY ACCESS" OF THE TYPE SPECIFIED AS DESCRIBED IN THE SPECIAL PROVISIONS.
5. TEMPORARY PAVEMENT MARKING, PAINT SHALL NOT BE USED ON THE FINAL WEARING SURFACE OR ON ANY EXISTING SURFACE TO REMAIN. USE PAVEMENT MARKING TAPE, TYPE III ON THE FINAL WEARING SURFACE AND EXISTING SURFACE TO REMAIN AS REQUIRED.
6. REPLACEMENT OF DAMAGED OR UNSERVICEABLE TEMPORARY IMPACT ATTENUATORS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "IMPACT ATTENUATORS, TEMPORARY" OF THE TYPE SPECIFIED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

MAINTENANCE OF TRAFFIC

DRAWN BY: HLC

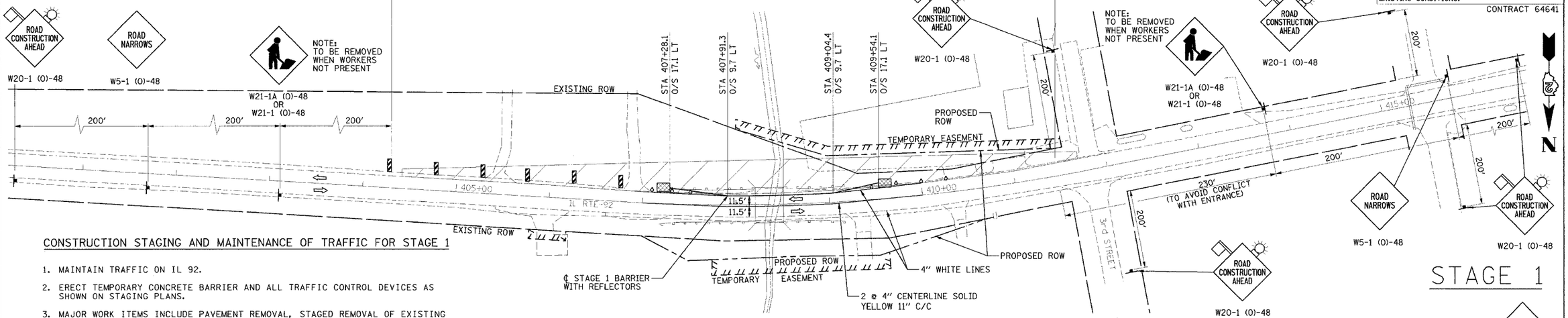
PLOT DATE: 08/31/2005 01:55:35 PM D16900stage.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	20
STA. 404+30		TO STA. 411+46		
EXISTING CONDITIONS:				

CONTRACT 64641

PAVEMENT MARKING TAPE, TYPE III | TEMPORARY PAINT PAVEMENT MARKING

TEMPORARY PAINT PAVEMENT MARKING | PAVEMENT MARKING TAPE, TYPE III



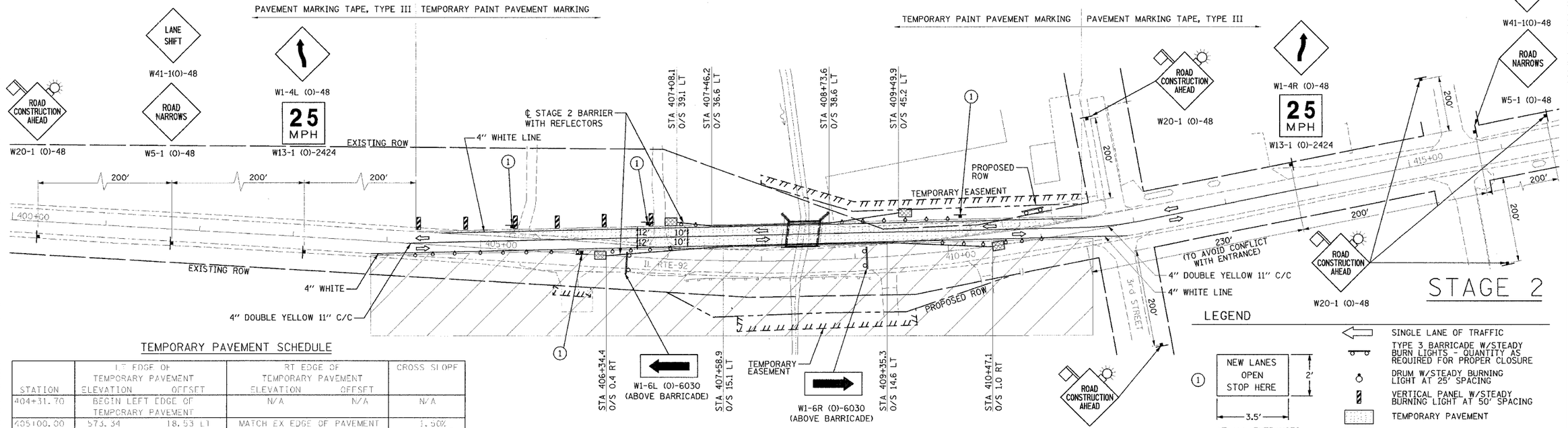
CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 1

1. MAINTAIN TRAFFIC ON IL 92.
2. ERECT TEMPORARY CONCRETE BARRIER AND ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
3. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL, STAGED REMOVAL OF EXISTING STRUCTURE AND CONSTRUCTION OF SOUTH END OF PROPOSED STRUCTURE AS SHOWN IN STRUCTURAL PLANS.

STAGE 1

PAVEMENT MARKING TAPE, TYPE III | TEMPORARY PAINT PAVEMENT MARKING

TEMPORARY PAINT PAVEMENT MARKING | PAVEMENT MARKING TAPE, TYPE III



TEMPORARY PAVEMENT SCHEDULE

STATION	LT EDGE OF TEMPORARY PAVEMENT ELEVATION	LT EDGE OF TEMPORARY PAVEMENT OFFSET	RT EDGE OF TEMPORARY PAVEMENT ELEVATION	RT EDGE OF TEMPORARY PAVEMENT OFFSET	CROSS SLOPE
404+31.70	BEGIN LEFT EDGE OF TEMPORARY PAVEMENT		N/A	N/A	N/A
405+00.00	573.34	18.53 LT	MATCH EX EDGE OF PAVEMENT		1.50% ←
406+00.00	572.58	26.79 LT	MATCH EX EDGE OF PAVEMENT		
407+00.00	572.12	34.91 LT	MATCH EX EDGE OF PAVEMENT		
408+00.00	572.60	39.40 LT	572.96	15.40 LT	
408+10.28	572.65	39.59 LT	573.01	15.59 LT	
408+23.03	572.71	39.74 LT	573.07	15.74 LT	
408+41.00	572.57	39.80 LT	572.93	15.80 LT	
408+58.05	572.66	39.75 LT	573.02	15.75 LT	
408+73.29	572.74	39.56 LT	573.10	15.56 LT	
409+00.00	572.87	38.96 LT	573.23	14.96 LT	
410+00.00	573.04	33.58 LT	MATCH EX EDGE OF PAVEMENT		1.50% →
411+00.00	573.09	23.20 LT	MATCH EX EDGE OF PAVEMENT		
411+40.00	573.07	16.68 LT	MATCH EX EDGE OF PAVEMENT		
411+63.10	END LEFT EDGE OF TEMPORARY PAVEMENT		N/A	N/A	N/A

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 2

1. MAINTAIN TRAFFIC ON IL 92.
2. REMOVE LEFT SHOULDER AND CONSTRUCT TEMPORARY PAVEMENT IN ACCORDANCE WITH STANDARD 701326-01.
3. ERECT TEMPORARY CONCRETE BARRIER AND ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
4. SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT
5. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL, REMOVAL OF REMAINING EXISTING STRUCTURE, CONSTRUCT BALANCE OF CULVERT AND CONSTRUCT WB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 407+70 TO STA 411+00 AND EB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 407+70 TO STA 409+20, RIGHT SIDE SHOULDERS AND ENTRANCES.

STAGE 2

LEGEND

- SINGLE LANE OF TRAFFIC
- TYPE 3 BARRICADE W/STEADY BURN LIGHTS - QUANTITY AS REQUIRED FOR PROPER CLOSURE
- DRUM W/STEADY BURNING LIGHT AT 25' SPACING
- VERTICAL PANEL W/STEADY BURNING LIGHT AT 50' SPACING
- TEMPORARY PAVEMENT
- WORK AREA
- TEMPORARY IMPACT ATTENUATORS IN COMPLIANCE WITH NCHRP 350 FOR THE POSTED SPEED LIMIT

① NEW LANES OPEN STOP HERE (2' × 3.5')

AT ALL ENTRANCES
NOTE: ABOVE SIGNS SHALL BE BLACK ON ORANGE REFLECTIVE BACKGROUND

50' 0 50' 100'
SCALE: 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

MAINTENANCE OF TRAFFIC

DRAWN BY: HLC

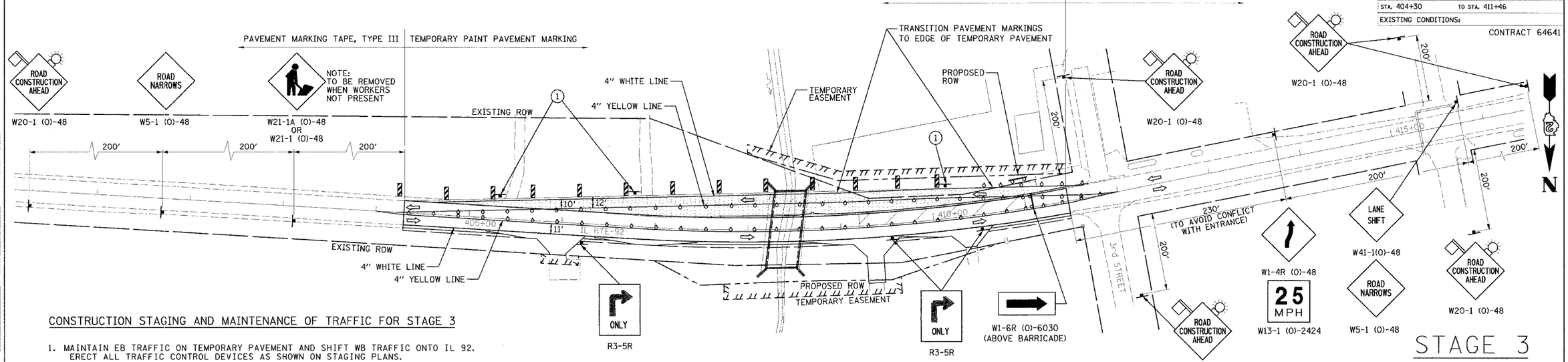
PLOT DATE: 08/31/2005 01:54:13 PM D16900s-tcge.dgn

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	21
STA. 404+30		TO STA. 411+46		
EXISTING CONDITIONS:				

CONTRACT 64641

PAVEMENT MARKING TAPE, TYPE III | TEMPORARY PAINT PAVEMENT MARKING

TEMPORARY PAINT PAVEMENT MARKING | PAVEMENT MARKING TAPE, TYPE III



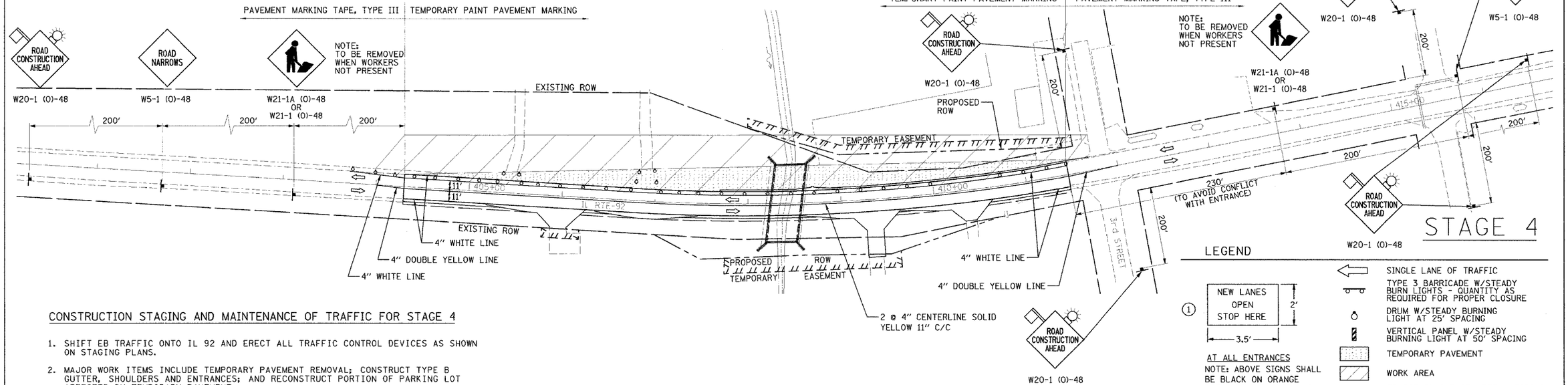
STAGE 3

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 3

1. MAINTAIN EB TRAFFIC ON TEMPORARY PAVEMENT AND SHIFT WB TRAFFIC ONTO IL 92. ERECT ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
2. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL AND CONSTRUCT EB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 409+20 TO STA 411+00.

PAVEMENT MARKING TAPE, TYPE III | TEMPORARY PAINT PAVEMENT MARKING

TEMPORARY PAINT PAVEMENT MARKING | PAVEMENT MARKING TAPE, TYPE III



STAGE 4

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 4

1. SHIFT EB TRAFFIC ONTO IL 92 AND ERECT ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
2. MAJOR WORK ITEMS INCLUDE TEMPORARY PAVEMENT REMOVAL; CONSTRUCT TYPE B GUTTER, SHOULDERS AND ENTRANCES; AND RECONSTRUCT PORTION OF PARKING LOT AFFECTED BY TEMPORARY PAVEMENT.

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 5

1. MAINTAIN TRAFFIC ON IL 92 WITH DAYTIME LANE CLOSURES IN ACCORDANCE WITH STANDARD 701306. PAVEMENT MARKING AND LANDSCAPING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD 701311-02.
2. MAJOR WORK ITEMS INCLUDE BITUMINOUS SURFACE REMOVAL AND FINAL WEARING SURFACE PLACEMENT, PAVEMENT MARKING AND LANDSCAPING.

LEGEND

- NEW LANES OPEN STOP HERE (2' × 3.5')
- SINGLE LANE OF TRAFFIC
- TYPE 3 BARRICADE W/STEADY BURN LIGHTS - QUANTITY AS REQUIRED FOR PROPER CLOSURE
- DRUM W/STEADY BURNING LIGHT AT 25' SPACING
- VERTICAL PANEL W/STEADY BURNING LIGHT AT 50' SPACING
- TEMPORARY PAVEMENT
- WORK AREA
- TEMPORARY IMPACT ATTENUATORS IN COMPLIANCE WITH NCHRP 350 FOR THE POSTED SPEED LIMIT

AT ALL ENTRANCES
NOTE: ABOVE SIGNS SHALL BE BLACK ON ORANGE REFLECTIVE BACKGROUND

50' 0 50' 100'
SCALE: 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

MAINTENANCE OF TRAFFIC

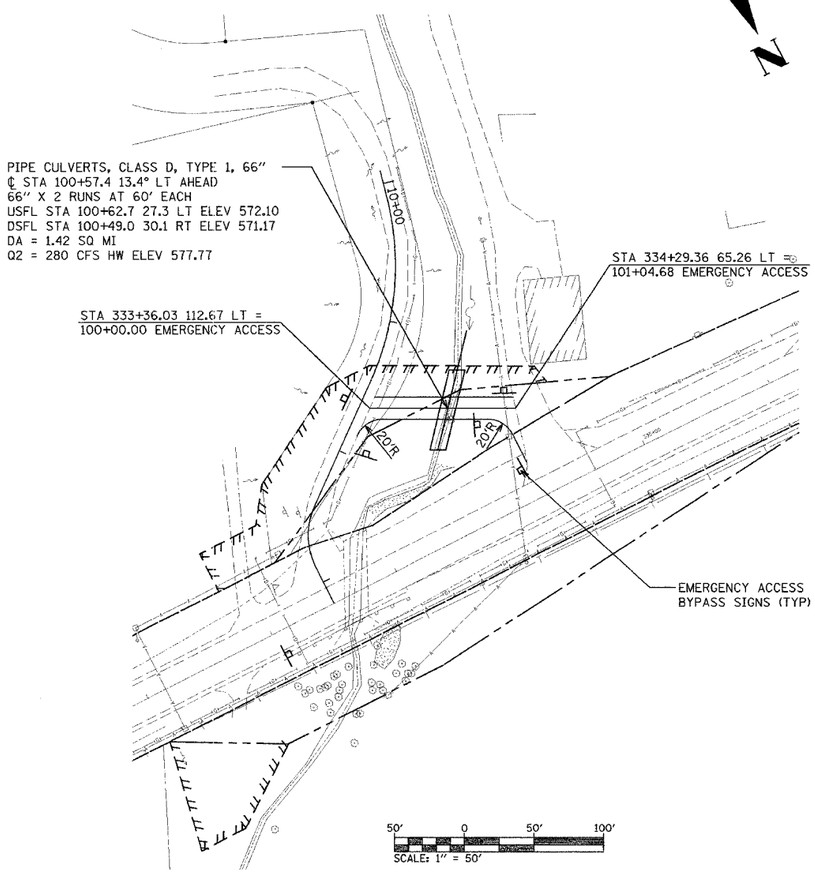
DRAWN BY: HLC

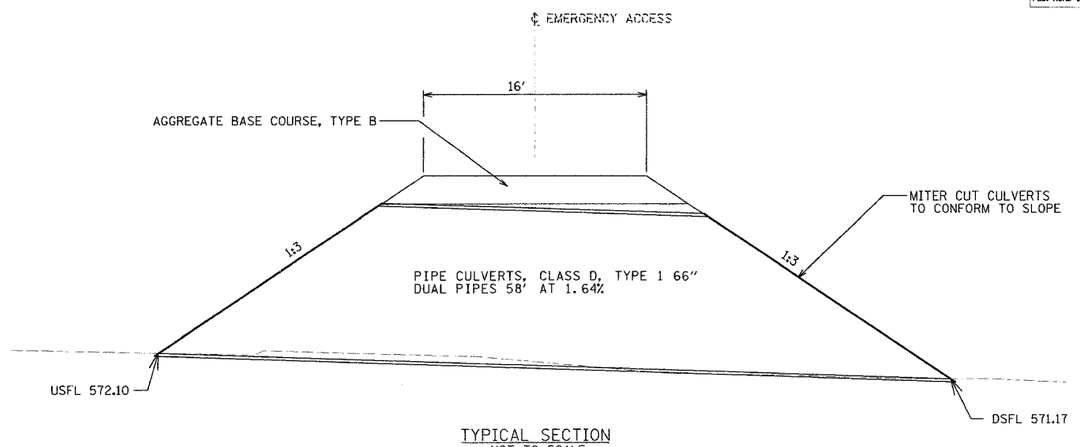
PLOT DATE: 08/31/2005 04:27:56 PM D16900stage.dgn

MAINTENANCE OF TRAFFIC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	22
STA. 326+50	TO STA. 336+10			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

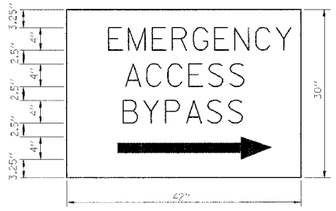
CONTRACT 64641





TYPICAL SECTION
NOT TO SCALE

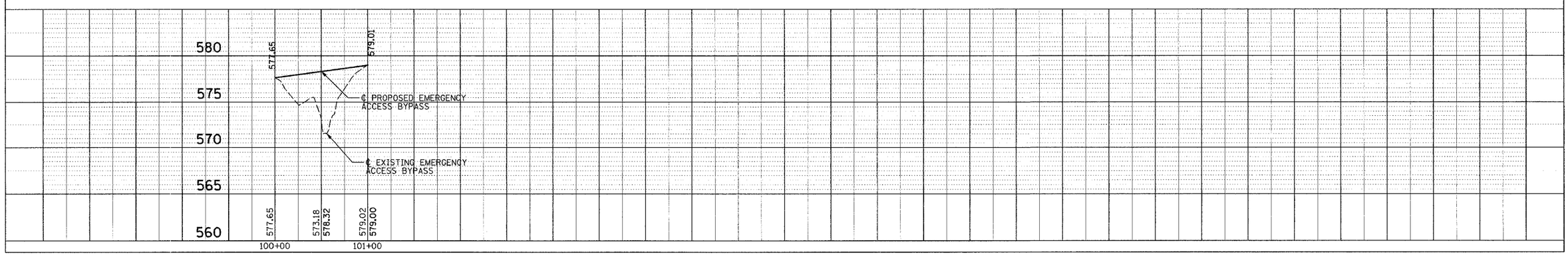
EMERGENCY ACCESS
STA 100+00.00 TO STA 100+04.68



SIGN DETAIL
NOT TO SCALE
NOTE: CHANGE DIRECTIONAL ARROW AS REQUIRED.

NOTES

1. THE EMERGENCY ACCESS BYPASS SHALL BE CONSTRUCTED BEFORE CLOSING IL 92.
2. THE CONTRACTOR SHALL MITER CUT THE PROPOSED CULVERT TO CONFORM TO THE SLOPE OF THE EMBANKMENT. THE COST OF THE MITER CUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE CULVERTS, CLASS D, TYPE 1 66"
3. THE EMERGENCY ACCESS BYPASS SIGNS SHALL BE ERECTED AT THE LOCATIONS SHOWN ON THE PLANS (6 SIGNS TOTAL). THE SIGNS SHALL BE BLACK ON ORANGE REFLECTIVE BACKGROUND. THE COST OF THE SIGNS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL FOR ROAD CLOSURE.
4. ONCE IL 92 IS REOPENED THE CONTRACTOR SHALL REMOVE THE EMERGENCY ACCESS BYPASS INCLUDING THE CULVERT, AGGREGATE BASE COURSE AND EMBANKMENT. THE CONTRACTOR SHALL THEN COMPLETE THE UPSTREAM CHANNEL IMPROVEMENTS, RIPRAP AND RETURN THE BALANCE OF THE SITE TO MATCH THE EXISTING CONDITIONS.
5. CONSTRUCTION OF THE EMERGENCY ACCESS BYPASS SHALL BE DONE IN ACCORDANCE TO THE STANDARD SPECIFICATIONS FOR EARTH EXCAVATION, AND FURNISHED EXCAVATION. INSTALLATION OF PIPE CULVERT SHALL BE PAID FOR PER UNIT PRICE FOR PIPE CULVERTS, CLASS D, TYPE 1 66". REMOVAL OF PIPE CULVERT SHALL BE INCLUDED IN EARTH EXCAVATION PER GENERAL NOTE 19.
6. THE CONTRACTOR SHALL MAINTAIN THE EMERGENCY ACCESS BYPASS BY GRADING AND PROVIDING ADDITIONAL BASE COURSE AS NEEDED. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL FOR ROAD CLOSURE.



PLOT DATE: 08/31/2005 04:28:24 PM details.dgn

IL RTE 92 (EAST OF ANDALUSIA)

• 42MFT-BR, (9BR-21M, 42MFT-T

CONTRACT NO. 64641

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	•	ROCK ISLAND	90	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGING SHEETS

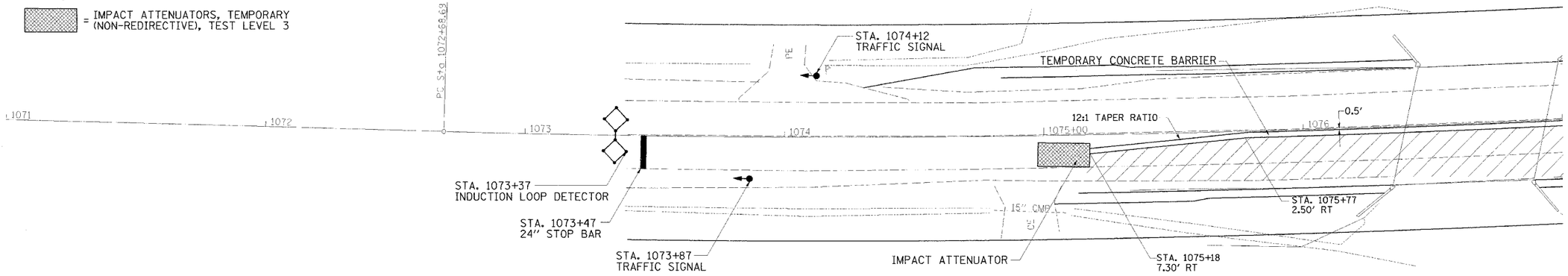
= WORK ZONE

= TRAFFIC SIGNAL

= INDUCTION LOOP DETECTOR

= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

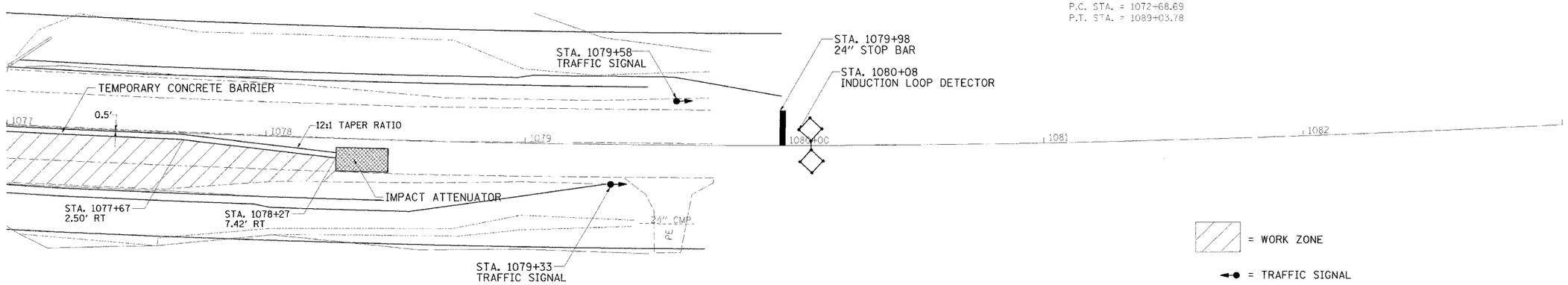
EXIST. CURVE 220
PI STA. = 1080+91.84
Δ = 16° 22′ 06″ (LT)
D = 1° 00′ 04″
R = 5,723.53′
T = 823.15′
L = 1,635.10′
E = 58.89′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1072+68.69
P.T. STA. = 1089+03.78



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

EXIST. CURVE 220
PI STA. = 1080+91.84
Δ = 16° 22′ 06″ (LT)
D = 1° 00′ 04″
R = 5,723.53′
T = 823.15′
L = 1,635.10′
E = 58.89′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1072+68.69
P.T. STA. = 1089+03.78



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

= WORK ZONE

= TRAFFIC SIGNAL

= INDUCTION LOOP DETECTOR

= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

PLOT DATE = 8/31/2005
FILE NAME = *FILE1*
PLOT SCALE = *SCALE*
USER NAME = *USER*

STAGE 1

• 42MFT-BR, (9BR-21M, 42MFT-T

CONTRACT NO. 64641

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGING SHEETS

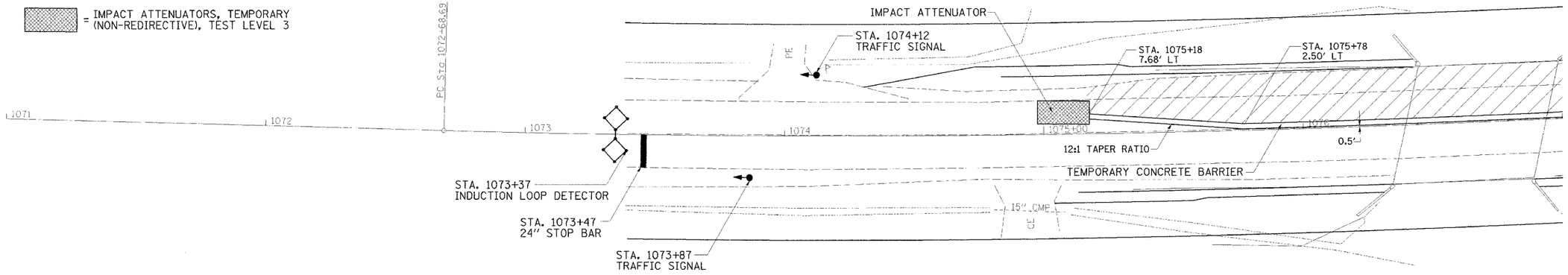
= WORK ZONE

= TRAFFIC SIGNAL

= INDUCTION LOOP DETECTOR

= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

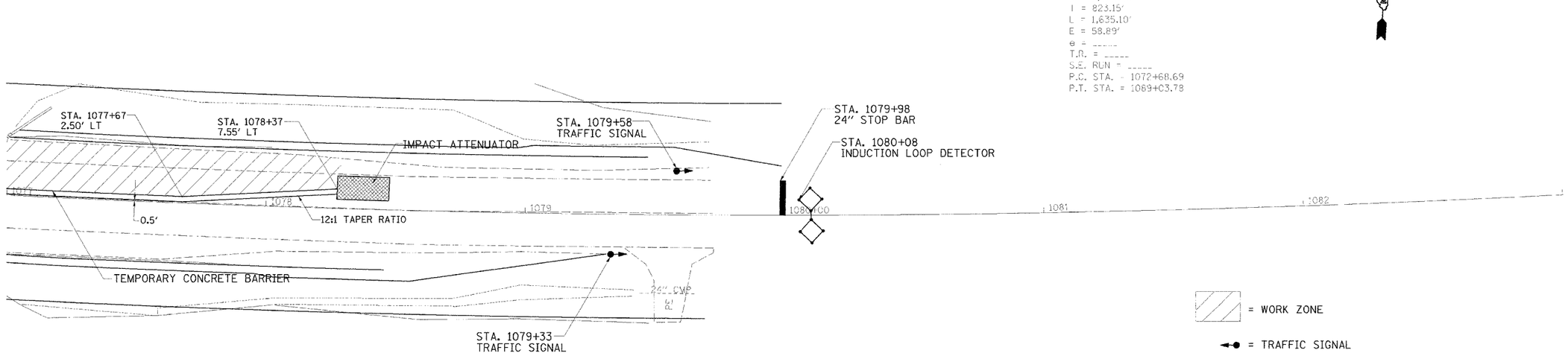
EXIST. CURVE 220
PI STA. = 1080+91.84
Δ = 16° 22′ 06″ (LT)
D = 1° 00′ 04″
R = 5,723.53′
T = 823.15′
L = 1,635.10′
E = 58.89′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1072+68.69
P.T. STA. = 1089+03.78



NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

EXIST. CURVE 220
PI STA. = 1080+91.84
Δ = 16° 22′ 06″ (LT)
D = 1° 00′ 04″
R = 5,723.53′
T = 823.15′
L = 1,635.10′
E = 58.89′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 1072+68.69
P.T. STA. = 1089+03.78



= WORK ZONE

= TRAFFIC SIGNAL

= INDUCTION LOOP DETECTOR

= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

NOTE:

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

PLOT DATE = 8/31/2005
FILE NAME = $FILE1$
PLOT SCALE = $SCALE$
USER NAME = $USER$

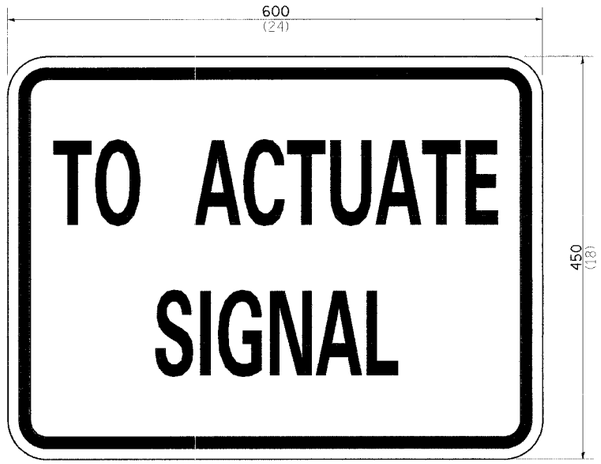
STAGE 2

• 42MFT-T, (9BR-2)M, 42MFT-T

CONTRACT NO. 64641

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)

100(4) CAPITAL LETTERS - BLACK

13(1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE B
ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

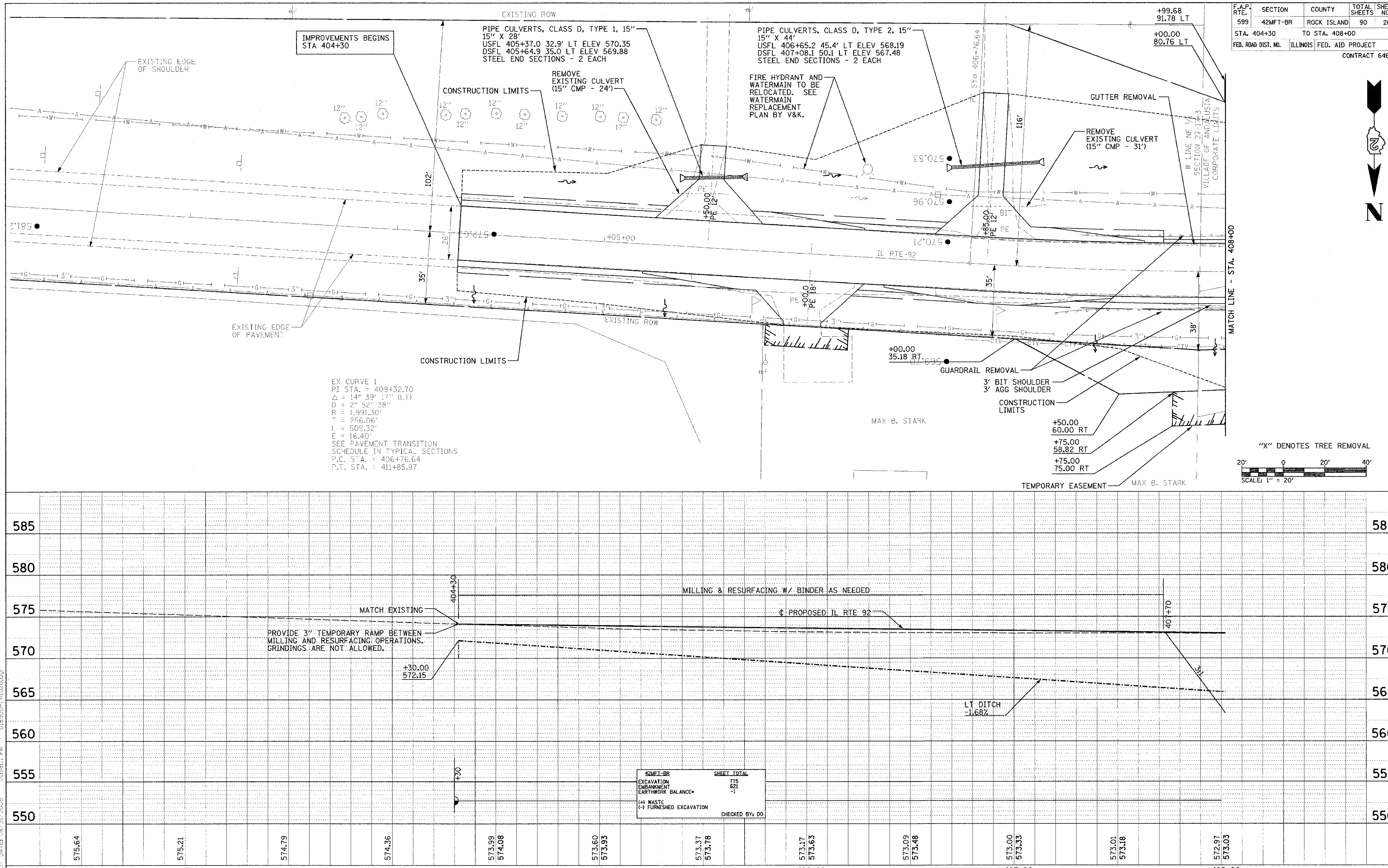
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED 8-7-90

PLOT DATE = 6/3/2005
FILE NAME = $FILE1$
PLOT SCALE = $SCALE$
REFERENCE = REF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	26
STA. 404+30	TO STA. 408+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		



EXISTING ROW
IMPROVEMENTS BEGINS STA 404+30
EXISTING EDGE OF SHOULDER
PIPE CULVERTS, CLASS D, TYPE 1, 15"
15" X 28'
USFL 405+37.0 32.9' LT ELEV 570.35
DSFL 405+64.9 35.0 LT ELEV 569.88
STEEL END SECTIONS - 2 EACH
REMOVE EXISTING CULVERT (15" CMP - 24')
CONSTRUCTION LIMITS
PIPE CULVERTS, CLASS D, TYPE 2, 15"
15" X 44'
USFL 406+65.2 45.4' LT ELEV 568.19
DSFL 407+08.1 50.1 LT ELEV 567.48
STEEL END SECTIONS - 2 EACH
FIRE HYDRANT AND WATERMAIN TO BE RELOCATED. SEE WATERMAIN REPLACEMENT PLAN BY V&K.
+99.68
91.78 LT
+00.00
80.76 LT
GUTTER REMOVAL
REMOVE EXISTING CULVERT (15" CMP - 31')
W LINE NE 1/4 SECTION 27-17-3
VILLAGE OF ANDALUSIA CORPORATE LIMITS
MATCH LINE - STA. 408+00
N
102'
26'
35'
116'
38'
405+00
IL RTE-92
EXISTING EDGE OF PAVEMENT
EXISTING ROW
CONSTRUCTION LIMITS
+00.00
35.18 RT
GUARDRAIL REMOVAL
3' BIT SHOULDER
3' AGG SHOULDER
CONSTRUCTION LIMITS
+50.00
60.00 RT
+75.00
58.82 RT
+75.00
75.00 RT
TEMPORARY EASEMENT
MAX B. STARK
"X" DENOTES TREE REMOVAL
SCALE: 1" = 20'
EX CURVE 1
PI STA. = 409+32.70
Δ = 14° 39' 17" (LT)
D = 2° 52' 38"
R = 1,991.30'
T = 256.06'
L = 509.32'
E = 16.40'
SEE PAVEMENT TRANSITION SCHEDULE IN TYPICAL SECTIONS
P.C. STA. = 406+76.64
P.T. STA. = 411+85.97
MILLING & RESURFACING W/ BINDER AS NEEDED
MATCH EXISTING
℄ PROPOSED IL RTE 92
PROVIDE 3" TEMPORARY RAMP BETWEEN MILLING AND RESURFACING OPERATIONS. GRINDINGS ARE NOT ALLOWED.
+30.00
572.15
LT DITCH
-1.68%
404+30
407+70
403+00
404+00
405+00
406+00
407+00
408+00

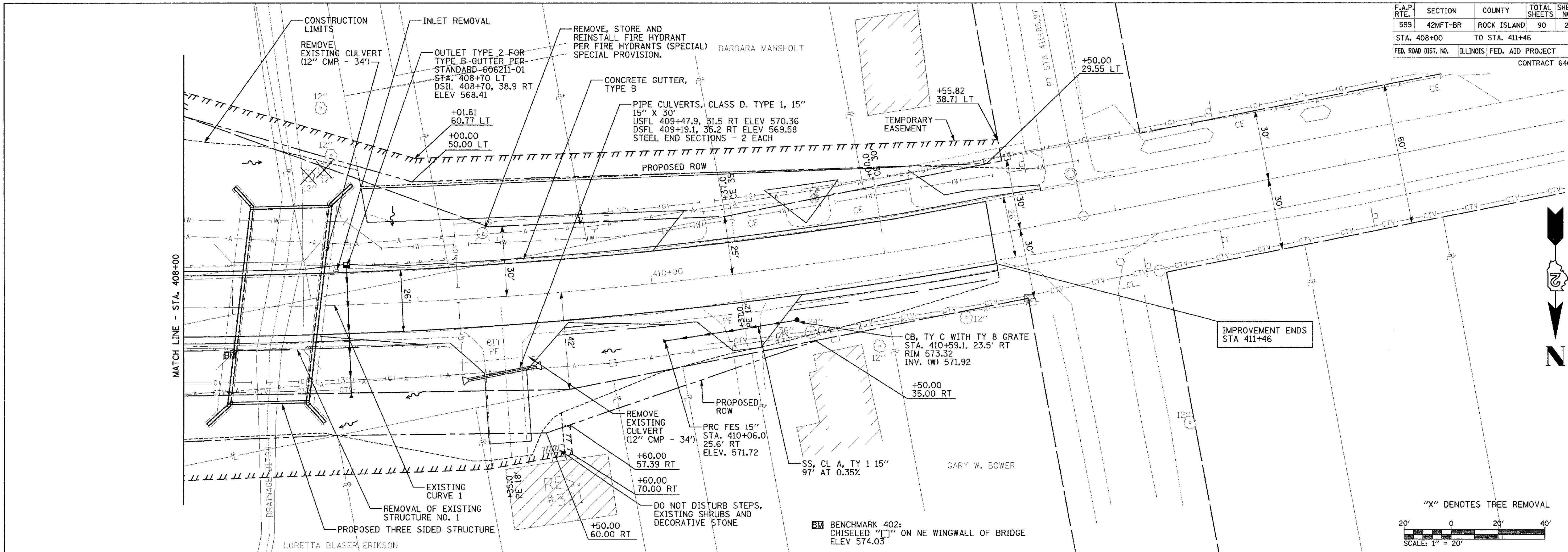
42MFT-BR	SHEET TOTAL
EXCAVATION	775
EMBANKMENT	621
EARTHWORK BALANCE*	-1
(+) WASTE	
(-) FURNISHED EXCAVATION	
	CHECKED BY: DO

PLOT DATE: 08/31/2005

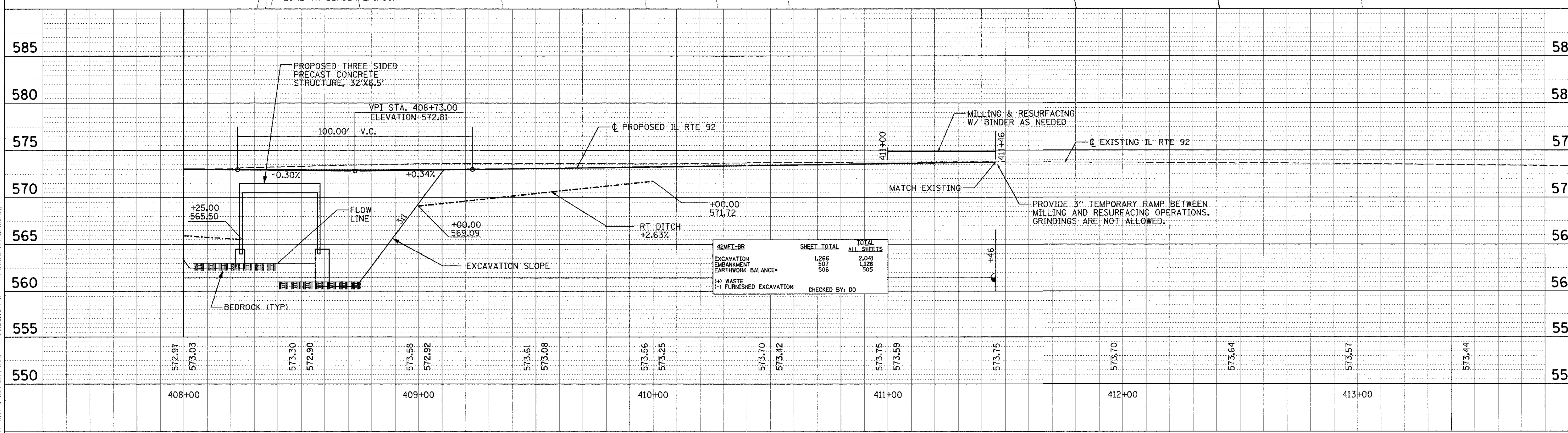
IL RTE 92 (AT ANDALUSIA)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	27
STA. 408+00		TO STA. 411+46		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641



CONSTRUCTION LIMITS
INLET REMOVAL
REMOVE EXISTING CULVERT (12" CMP - 34')
OUTLET TYPE 2 FOR TYPE B GUTTER PER STANDARD 606211-01 STA. 408+70 LT DSIL 408+70, 38.9 RT ELEV 568.41
REMOVE, STORE AND REINSTALL FIRE HYDRANT PER FIRE HYDRANTS (SPECIAL) SPECIAL PROVISION.
BARBARA MANSHOLT
CONCRETE GUTTER, TYPE B
PIPE CULVERTS, CLASS D, TYPE 1, 15" 15" X 30' USFL 409+47.9, 31.5 RT ELEV 570.36 DSFL 409+19.1, 35.2 RT ELEV 569.58 STEEL END SECTIONS - 2 EACH
+01.81 60.77 LT
+00.00 50.00 LT
+55.82 38.71 LT
+50.00 29.55 LT
TEMPORARY EASEMENT
PROPOSED ROW
MATCH LINE - STA. 408+00
410+00
PT STA 411+85.97
IMPROVEMENT ENDS STA 411+46
CB, TY C WITH TY 8 GRATE STA. 410+59.1, 23.5' RT RIM 573.32 INV. (W) 571.92
+50.00 35.00 RT
PROPOSED ROW
REMOVE EXISTING CULVERT (12" CMP - 34')
PRC FES 15" STA. 410+06.0 25.6' RT ELEV. 571.72
SS, CL A, TY 1 15" 97' AT 0.35%
GARY W. BOWER
+60.00 57.39 RT
+60.00 70.00 RT
EXISTING CURVE 1
REMOVAL OF EXISTING STRUCTURE NO. 1
PROPOSED THREE SIDED STRUCTURE
DO NOT DISTURB STEPS, EXISTING SHRUBS AND DECORATIVE STONE
+50.00 60.00 RT
BM BENCHMARK 402: CHISELED "□" ON NE WINGWALL OF BRIDGE ELEV 574.03
LORETTA BLASER ERIKSON
DRAINAGE DITCH
RES. #321
"X" DENOTES TREE REMOVAL
20' 0 20' 40'
SCALE: 1" = 20'
N



PROPOSED THREE SIDED PRECAST CONCRETE STRUCTURE, 32'X6.5'
VPI STA. 408+73.00 ELEVATION 572.81
100.00' V.C.
-0.30%
+0.34%
℄ PROPOSED IL RTE 92
MILLING & RESURFACING W/ BINDER AS NEEDED
℄ EXISTING IL RTE 92
MATCH EXISTING
PROVIDE 3" TEMPORARY RAMP BETWEEN MILLING AND RESURFACING OPERATIONS. GRINDINGS ARE NOT ALLOWED.
+25.00 565.50
FLOW LINE
+00.00 569.09
+00.00 571.72
RT DITCH +2.63%
EXCAVATION SLOPE
BEDROCK (TYP)
3:1
585
580
575
570
565
560
555
550
572.97 573.03 573.30 572.90 573.58 572.92 573.61 573.08 573.56 573.25 573.70 573.42 573.75 573.59 573.75 573.70 573.64 573.57 573.44
408+00 409+00 410+00 411+00 412+00 413+00
411+00
411+46
+46

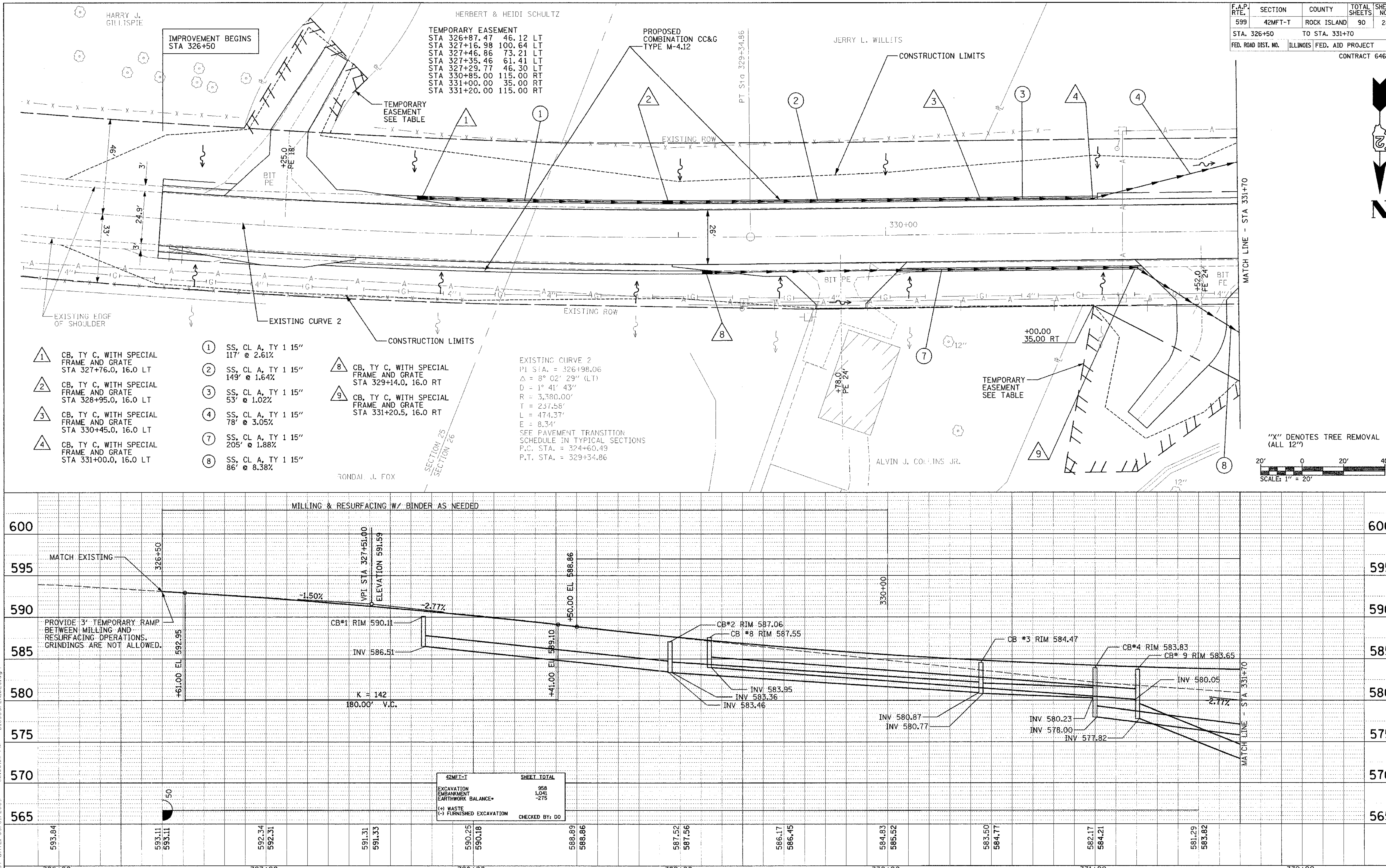
42MFT-BR	SHEET TOTAL	TOTAL ALL SHEETS
EXCAVATION	1,266	2,041
EMBANKMENT	507	1,128
EARTHWORK BALANCE*	506	505
(+) WASTE		
(-) FURNISHED EXCAVATION	CHECKED BY: DO	

PLAN | PROFILE

PLOT DATE: 08/31/2005 0:19:18 PM D:\8900PI\g20s.dgn

IL RTE 92 (AT ANDALUSIA)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	28
STA. 326+50		TO STA. 331+70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		



HARRY J. GILLISPIE
HERBERT & HEIDI SCHULTZ
JERRY L. WILLITS
RONDAL J. FOX
ALVIN J. COLLINS JR.
IMPROVEMENT BEGINS STA 326+50
TEMPORARY EASEMENT
STA 326+87.47 46.12 LT
STA 327+16.98 100.64 LT
STA 327+46.86 73.21 LT
STA 327+35.46 61.41 LT
STA 327+29.77 46.30 LT
STA 330+85.00 115.00 RT
STA 331+00.00 35.00 RT
STA 331+20.00 115.00 RT
PROPOSED COMBINATION CC&G TYPE M-4.12
TEMPORARY EASEMENT SEE TABLE
CONSTRUCTION LIMITS
EXISTING ROW
EXISTING EDGE OF SHOULDER
EXISTING CURVE 2
PT Sta 329+34.86
MATCH LINE - STA 331+70
330+00
N
1. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 327+76.0, 16.0 LT
2. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 328+95.0, 16.0 LT
3. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 330+45.0, 16.0 LT
4. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 331+00.0, 16.0 LT
8. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 329+14.0, 16.0 RT
9. CB, TY C, WITH SPECIAL FRAME AND GRATE STA 331+20.5, 16.0 RT
(1) SS, CL A, TY 1 15" 117' @ 2.61%
(2) SS, CL A, TY 1 15" 149' @ 1.64%
(3) SS, CL A, TY 1 15" 53' @ 1.02%
(4) SS, CL A, TY 1 15" 78' @ 3.05%
(7) SS, CL A, TY 1 15" 205' @ 1.88%
(8) SS, CL A, TY 1 15" 86' @ 8.38%
EXISTING CURVE 2
PI STA. = 326+98.06
Δ = 8° 02' 29" (LT)
D = 1° 41' 43"
R = 3,380.00'
T = 237.58'
L = 474.37'
E = 8.34'
SEE PAVEMENT TRANSITION SCHEDULE IN TYPICAL SECTIONS
P.C. STA. = 324+60.49
P.T. STA. = 329+34.86
+00.00 35.00 RT
"X" DENOTES TREE REMOVAL (ALL 12")
SCALE: 1" = 20'
MILLING & RESURFACING W/ BINDER AS NEEDED
MATCH EXISTING
PROVIDE 3' TEMPORARY RAMP BETWEEN MILLING AND RESURFACING OPERATIONS. GRINDINGS ARE NOT ALLOWED.
VPI STA 327+51.00 ELEVATION 591.59
-1.50%
-2.77%
K = 142
180.00' V.C.
CB#1 RIM 590.11
INV 586.51
CB#2 RIM 587.06
CB #8 RIM 587.55
INV 583.95
INV 583.36
INV 583.46
CB #3 RIM 584.47
INV 580.87
INV 580.77
CB#4 RIM 583.83
CB# 9 RIM 583.65
INV 580.05
INV 580.23
INV 578.00
INV 577.82

42MFT-T	SHEET TOTAL
EXCAVATION	958
EMBANKMENT	1,041
EARTHWORK BALANCE*	-275
(+) WASTE	
(-) FURNISHED EXCAVATION	CHECKED BY: DO

PLOT DATE: 08/31/2005

IL RTE 92 (EAST OF ANDALUSIA)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	29
STA. 331+70	TO STA. 336+10			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

TEMPORARY EASEMENT
STA 331+75.00 75.00 RT
STA 331+80.00 45.24 LT
STA 331+80.00 75.00 LT
STA 332+25.00 75.00 LT
STA 332+42.00 99.00 LT
STA 333+15.00 140.00 LT
STA 333+50.00 140.00 LT
STA 334+55.00 86.00 LT
STA 334+57.79 71.91 LT
STA 334+55.00 86.00 LT

STONE RIP RAP, CLASS A5
SEE CHANNEL CROSS SECTIONS

PC STA 12+43.61

PROPOSED CURVE 85-2

TEMPORARY EASEMENT SEE TABLE

PT STA 11+44.63

REMOVE EXISTING CULVERT (18" CMP - 46')

+25.00 95.00 LT

+00.00 95.00 LT

DRAIN FOR AGGREGATE BASE COURSE (TYPICAL LT & RT)

+25.00 45.00 LT

REMOVE EXISTING CULVERT (15" CMP 26')

RONDAL J. FOX

EXISTING CURVE 1
PI STA. = 339+24.63
Δ = 8° 36' 42" (RT)
D = 0° 58' 16"
R = 5,900.00'
T = 444.22'
L = 886.78'
E = 16.70'
SEE PAVEMENT TRANSITION SCHEDULE IN TYPICAL SECTIONS
P.C. STA. = 334+80.40
P.T. STA. = 343+67.18

PIPE CULVERTS, CL D, TYPE 1, 15" 15" X 54'
USFL 334+55.5 42.6 LT ELEV 579.13
DSFL 334+05.5 61.5 LT ELEV 578.86
STEEL END SECTION 15" - 2 EA

PROPOSED ROW

+00.00 55.00 LT

CONSTRUCTION LIMITS

IMPROVEMENT ENDS STA 336+10

PC STA 334+80.40

BIT PE

+00.00 PE 24'

+28.0 CE 24'

BIT CE

BM

IL RTE 92

MATCH LINE - STA 331+70

PT STA 12+88.25

55'

35'

13'

13'

13'

13'

335+00

CE BIT

△5 CB, TY A, 4' DIA WITH TY B GRATE STA 331+77.8, 35.0 LT

△6 CB, TY A, 4' DIA WITH TY 8 GRATE STA 332+25.5, 35.0 LT

△7 PRC FES 24" STA 332+96.6 53.9 LT

△10 PRC FES 15" STA 331+92.9, 63.6 RT

(5) SS, CL A, TY 1 24" 44' @ 0.80%

(6) SS, CL A, TY 1 24" 72' @ 0.22%

REMOVAL OF EXISTING STRUCTURE NO. 2

GUARDRAIL REMOVAL

PROPOSED ROW

3' BITUMINOUS SHOULDER
3' AGGREGATE SHOULDER

+50.00 35.00 RT

EXISTING EDGE OF PAVEMENT

RONDAL J. FOX

+00.00 75.00 RT

+75.00 75.00 RT

STONE RIPRAP, CLASS A5
SEE CHANNEL CROSS SECTIONS

"X" DENOTES TREE REMOVAL (ALL 12")

BM BENCHMARK #400:
CUT SQUARE IN SE CORNER OF WEST WINGWALL
ELEV 579.76'

STATION EQUATION
STA 332+50 IL 92 = STA 13+17 85TH ST

20' 0 20' 40'
SCALE: 1" = 20'

N

K = 138
680.00' V.C.

VPI STA 331+90.00
ELEVATION 579.45

MILLING & RESURFACING W/ BINDER AS NEEDED

MATCH EXISTING

PROVIDE 3' TEMPORARY RAMP BETWEEN MILLING AND RESURFACING OPERATIONS. GRINDINGS ARE NOT ALLOWED.

+30.00 EL 586.82

335+00

336+10

+10.00 587.89

+10.00 585.74

RT DITCH 2.66 %

LT DITCH 5.67 %

+57.00 579.22

CB#5 RIM 579.25

CB#6 RIM 579.25

+00.00 577.50

+2.17%

5:1

EXCAVATION SLOPE

INV 573.50

RT DITCH 16.30 %

INV 570.44

INV 574.00

INV 575.65

INV 573.65

+54.00 570.00

PROPOSED 10' X 8' DUAL CELLED CONCRETE BOX CULVERT

42MFT-T	SHEET TOTAL
EXCAVATION	400
EMBANKMENT	2810
EARTHWORK BALANCE*	-2491
(+) WASTE	
(-) FURNISHED EXCAVATION	

CHECKED BY: DO

595 590 585 580 575 570 565

581.29 583.82 | 580.43 583.62 | 580.20 583.59 | 580.53 583.75 | 581.49 584.09 | 582.48 584.62 | 583.95 585.32 | 585.44 586.21 | 586.89 587.26 | 588.33 588.34 | 589.43 | 590.51

332+00 333+00 334+00 335+00 336+00 337+00

IL RTE 92 (EAST OF ANDALUSIA)

PLOT DATE: 08/31/2005 02:02:59 PM D1690OP N1b20b.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	30
STA. 10+00	TO STA. 13+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

PROPOSED ROW

STATION EQUATION
STA 332+50 IL 92 = STA 13+17 85TH ST

PT STA 12+88.25

IL RTE 92

85TH STREET

10+00

EXISTING CURVE 85-1

PC STA 10+10.94

PT STA 11+44.65

TEMPORARY EASEMENT SEE TABLE

PC STA 12+43.61

PROPOSED CURVE 85-2

EXISTING CURVE 85-1
PI STA = 10+80.41
Δ = 38° 18′ 21″ (RT)
D = 28° 38′ 52″
T = 69.46′
R = 200.00′
L = 133.71′
E = 11.72′
PC STA = 10+10.94
PT STA = 11+44.65

PROPOSED CURVE 85-2
PI STA = 12+67.54
Δ = 51° 09′ 06″ (LT)
D = 114° 35′ 30″
T = 23.93′
R = 50.00′
L = 44.64′
E = 5.43′
PC STA = 12+43.61
PT STA = 12+88.25

"X" DENOTES TREE REMOVAL (ALL 12")

20′ 0 20′ 40′
SCALE: 1″ = 20′

K = 17
100.00′ V.C.

℄ EXISTING 85TH STREET

℄ PROPOSED 85TH STREET

+60.00 EL 577.76

+60.00 EL 580.78

577.75

583.42

+6.00%

+0.05%

MATCH EXISTING

VPI STA 12+10.00

ELEVATION 577.78

42MFT-T	SHEET TOTAL	TOTAL ALL SHEETS
EXCAVATION	12	1,370
EMBANKMENT	383	4,234
EARTHWORK BALANCE*	-373	-3,139
(+) WASTE		
(-) FURNISHED EXCAVATION		

CHECKED BY: DO

595 590 585 580 575 570 565

580.81 579.49 578.35 577.75 577.75 577.69 578.25 578.08 580.21 579.85 583.18

10+00 11+00 12+00 13+00

IL RTE 92 (EAST OF ANDALUSIA)

PLOT DATE: 08/31/2005 05:05:12 PM D1630OP_NIL220.dgn

PLAN — SURVEYED — DRAWN — PLOTTED — CHECKED — QUANTITIES — NOTE BOOK — NO. — BY — DATE

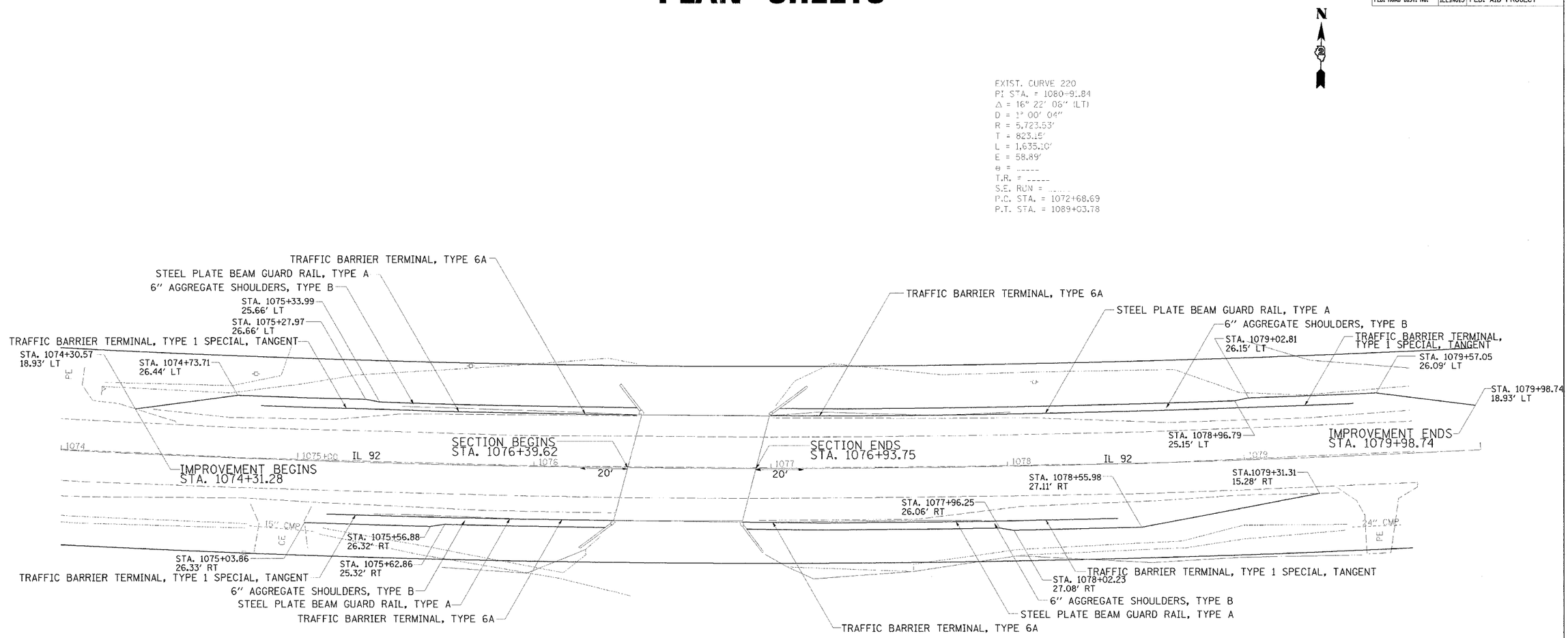
PRO-IL — SURVEYED — DRAWN — PLOTTED — CHECKED — QUANTITIES — NOTE BOOK — NO. — BY — DATE

• 42MFT-BR, (9BR-2)M, 42MFT-T

CONTRACT NO. 64641

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN SHEETS

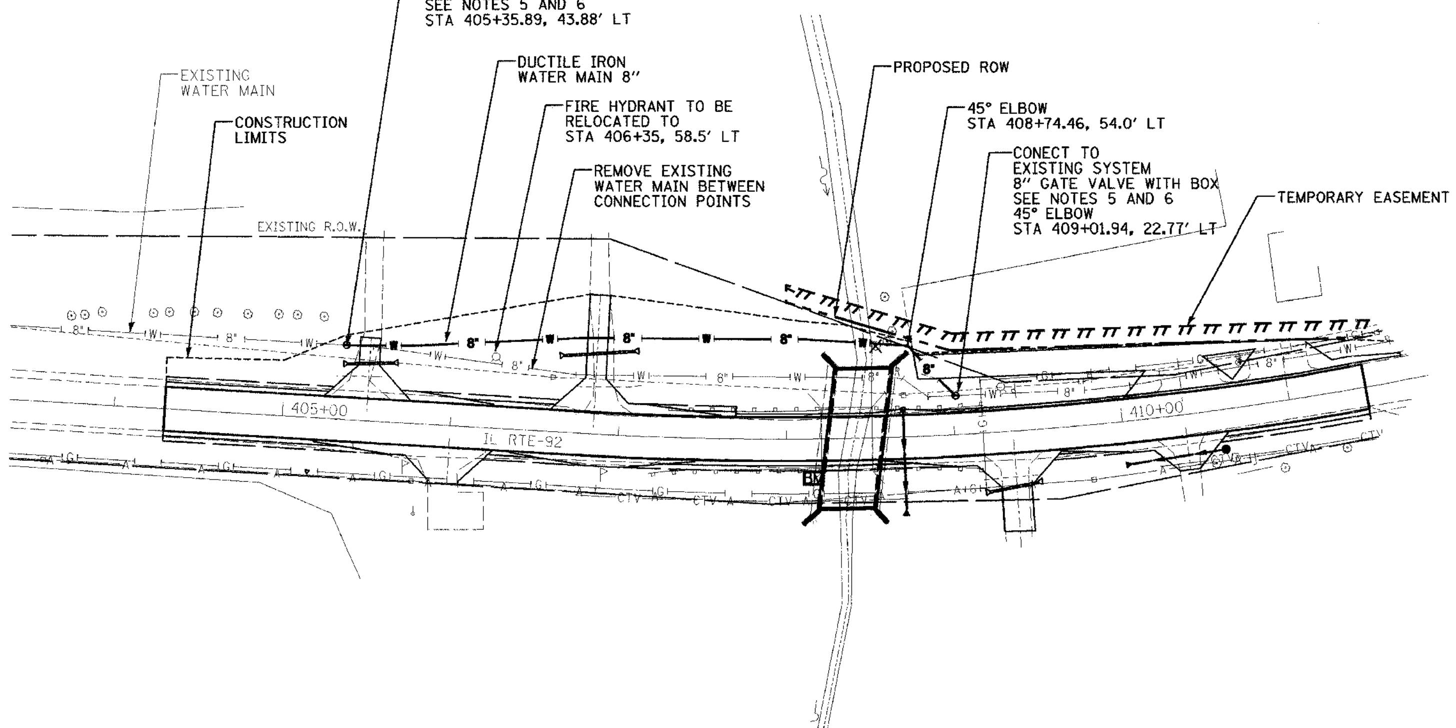


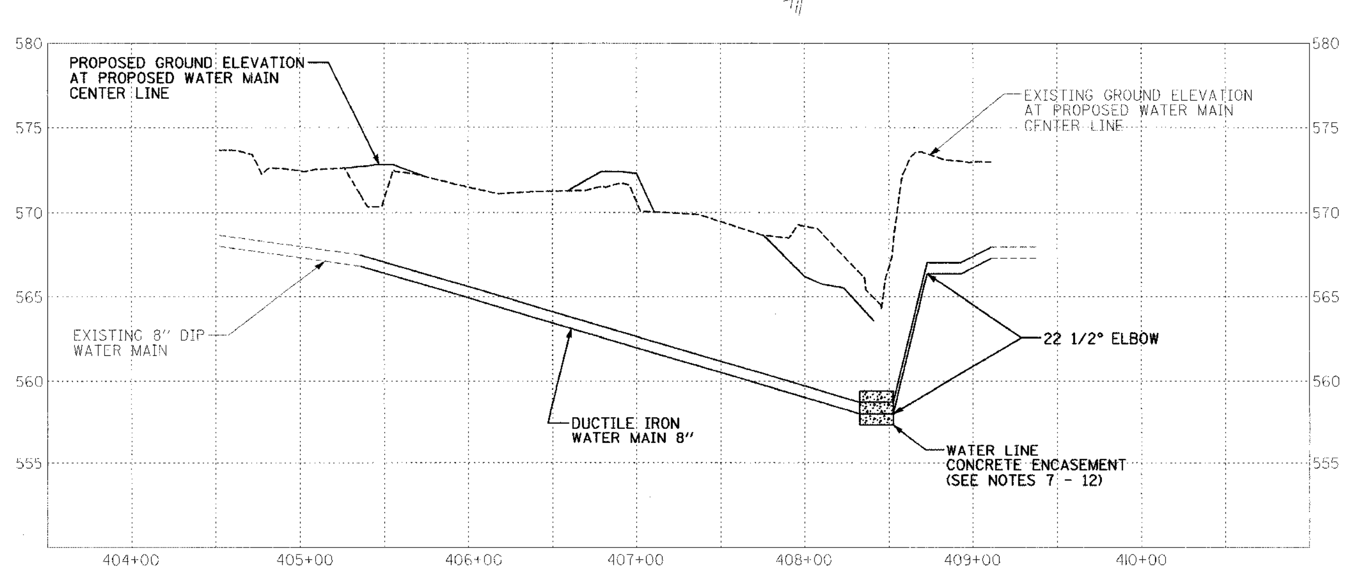
PLOT DATE = 8/31/2005
FILE NAME = $$FILE$$
PLOT SCALE = $$SCALE$$
USER NAME = $$USER$$

NOTES:

1. REFER TO STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (MAY 1996 EDITION)
2. ALL ELEVATIONS ARE ON AN ASSUMED DATUM.
3. LAY PIPE WITH 5'-6' MINIMUM EARTH COVER OVER TOP OF PIPE
4. VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES.
5. COORDINATE CONNECTIONS TO EXISTING SYSTEM WITH THE VILLAGE OF ANDALUSIA. CONNECTION TO EXISTING SYSTEM MAY BE REQUIRED DURING OFF PEAK HOURS.
6. INSTALL VALVES IN CLOSED POSITION. ONLY THE VILLAGE OF ANDALUSIA'S REPRESENTATIVE SHALL OPERATE VALVES.
7. EXCAVATED MATERIAL FOR BACKFILL, WHEN SPECIFIED: FINELY DIVIDED MATERIAL FREE FROM DEBRIS, STONES, ORGANIC MATTER OR FROZEN LUMPS; PIPE BEDDING OR SAND MAY BE USED AS SUBSTITUTE.
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 2500 PSI.
9. PROVIDE MINIMUM CONCRETE COVER OF 8" AT PIPE EXTREMITIES. TRENCH WALLS MAY BE USED TO FORM CONCRETE.
10. CONCRETE ENCASEMENT: USED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE ON UNIT PRICE OR UNIT ADJUSTMENT PRICE BASIS.
11. MAKE PIPE JOINT IN SAME MANNER SPECIFIED FOR PIPE NOT ENCASED.
12. PROVIDE MINIMUM OF 2 TEMPORARY PIPE SUPPORTS UNDER BARREL PER PIPE LENGTH; PROVIDE TIES AND BRACES TO PREVENT DISPLACEMENT OR FLOTATION DURING BEDDING OR ENCASEMENT PROCEDURES.

HIGHWAY IL-92
WATER MAIN REPLACEMENT
ANDALUSIA, ILLINOIS





GENERAL NOTES

1. ALL ELEVATIONS ARE TO AN ASSUMED DATUM.
2. REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. COST IS INCIDENTAL TO CONSTRUCTION.
3. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
4. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR.
5. DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
6. LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
7. SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.
8. STATIONING IS ALONG CENTER LINE OF PAVEMENT, UNLESS OTHERWISE NOTED.
9. PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
10. RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.
11. PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.

PROTECTION OF VEGETATION

TREES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE ✕ 12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED.

TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.

LICENSED PROFESSIONAL ENGINEER LEO F. FOLEY 062-057833 STATE OF ILLINOIS

Leo F. Foley
Signature

8/24/2005
Date

License Expires 11-30-2005

BENCHMARK	ELEVATION	DATE	REVISIONS

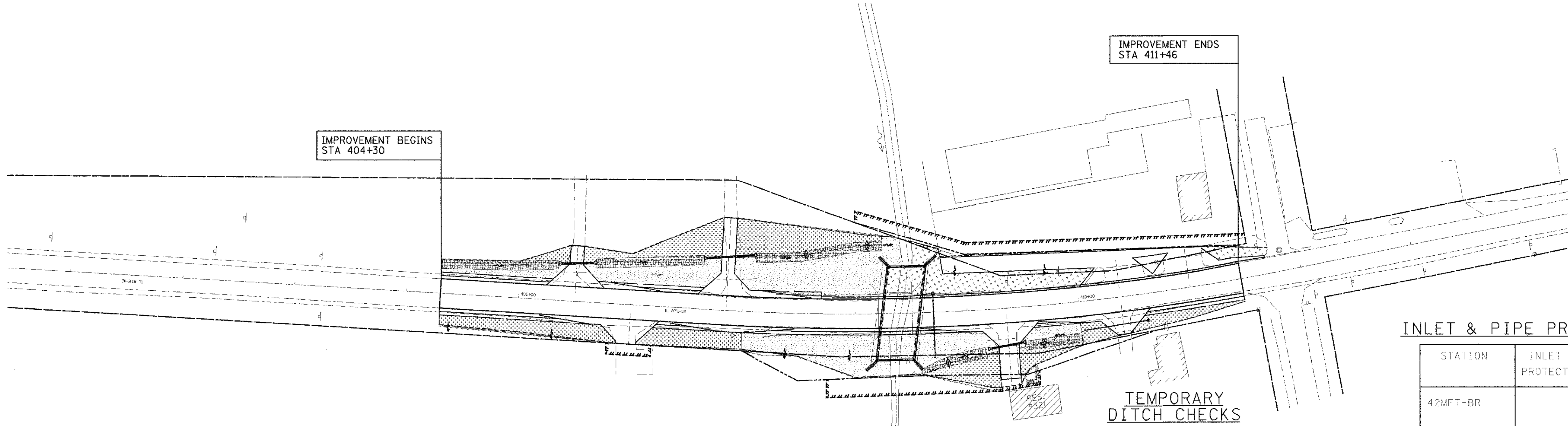
SCALE	1" = 50'
DRAWN	ARF
CHECKED	LFF
APPROVED	LFF
DATE	5/10/05
A.C.	
DATE	

V&K

VEENSTRA & KIMM, INC.
1530 46TH Avenue - Suite 2B • Moline, Illinois 61265-7019
309-797-0171 • 309-797-0996 (FAX) • 877-797-0171 (WATS)

DWG. NO.
32 of 90
PROJECT

6/23/2005 9:40:48 AM



N

INLET & PIPE PROTECTION

STATION	INLET AND PIPE PROTECTION (EACH)
42MFT-BR	
407+52.00 LT	1
42MFT-T	
327+76.00 LT	1
328+95.00 LT	1
330+45.00 LT	1
331+00.00 LT	1
331+77.80 LT	1
332+25.00 LT	1
329+14.00 RT	1
331+20.50 RT	1
TOTAL	9

TEMPORARY DITCH CHECKS

STATION	TEMPORARY DITCH CHECKS (EACH)
42MFT-BR	
407+55.00 LT	1
408+10.00 LT	1
408+81.00 RT	1
409+65.00 RT	1
42MFT-T	
334+75.00 LT	1
335+00.00 LT	1
335+25.00 LT	1
335+50.00 LT	1
335+75.00 LT	1
336+00.00 LT	1
333+00.00 RT	1
333+50.00 RT	1
334+00.00 RT	1
334+50.00 RT	1
335+00.00 RT	1
335+50.00 RT	1
11+50.00 RT	1
TOTAL	17

EROSION CONTROL

DESCRIPTION	ON-SITE 42MFT-BR	ON-SITE 42MFT-T	BORROW SITE (ESTIMATED)	TOTAL
SEEDING CLASS 1 (MODIFIED) (ACRE)	0.25	0.50	-	0.75
SEEDING CLASS 4 (ACRE)	0.25	0.50	0.75	1.50
SEEDING CLASS 6 (MODIFIED) (ACRE)	0.25	0.25	-	0.50
MULCH METHOD 2 * (ACRE)	2.25	1.25	2.25	5.75
MOWING (ACRES)	0.50	0.75	-	1.25
EROSION CONTROL BLANKET (SQUARE YARD)	209	698	-	907
TEMPORARY EROSION ** CONTROL SEEDING (LBS)	150	150	250	550

NOTE: ESTIMATED QUANTITIES OF EROSION CONTROL PAY ITEMS FOR USE AT CONTRACTOR BORROW/WASTE/USE SITE AS NEEDED AND DIRECTED BY THE ENGINEER.

* INCLUDES TEMPORARY MULCH PER ARTICLE 280.06
** ASSUMES TWO APPLICATIONS

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

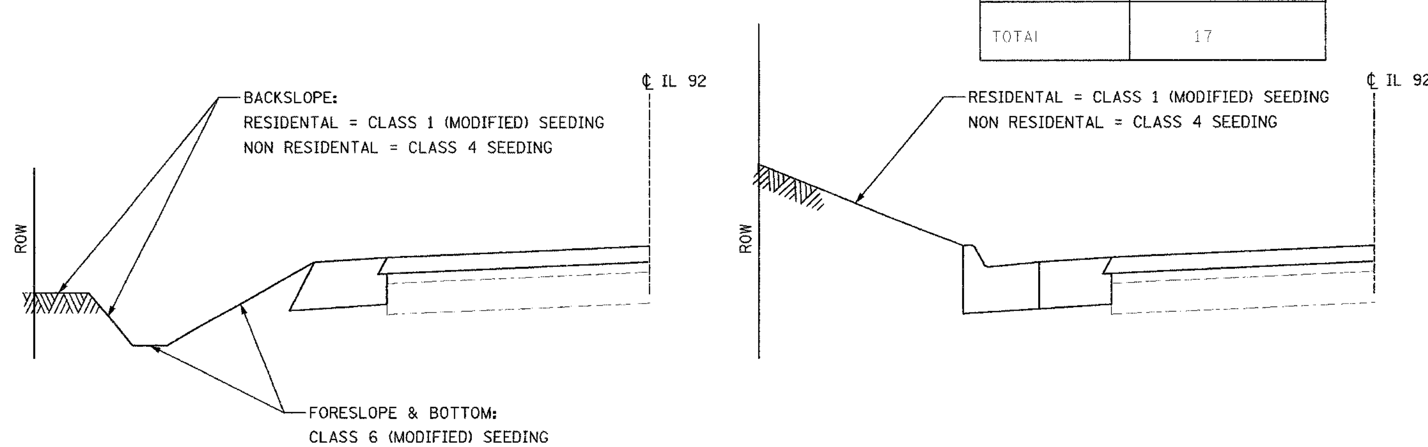
2 - TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN SUCH A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.

3 - ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.

4 - TOPSOIL, EROSION CONTROL BLANKET AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING. SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD OR CAKED. BROADCASTING OF THE SEED BY MACHINE OR HAND METHODS AND HYDRAULIC SEEDING OR OTHER METHODS APPROVED BY THE ENGINEER WILL BE ALLOWED FOR TEMPORARY EROSION CONTROL SEEDING.

5 - THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER ANY RAINFALL EVENT GREATER THAN 0.5 INCHES.

6 - ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSIDERED TEMPORARY. THESE MEASURES WILL BE REMOVED BY THE CONTRACTOR UNLESS DESIGNATED PERMANENT ON THE PLANS OR BY THE ENGINEER.



SEEDING DETAIL

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- SEEDING CLASS 1 (MODIFIED) AND MULCH METHOD 2
- SEEDING CLASS 4 AND MULCH METHOD 2
- SEEDING CLASS 6 (MODIFIED) AND MULCH METHOD 2
- PROPOSED FLOW LINES
- EXISTING FLOW LINES

50' 0 50' 100'
SCALE: 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-BR
ROCK ISLAND COUNTY

EROSION CONTROL PLAN

DRAWN BY: HLC

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	34
STA. 326+50	TO STA. 336+10			
EXISTING CONDITIONS:				

CONTRACT 64641

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- SEEDING CLASS 1 (MODIFIED) AND MULCH METHOD 2
- SEEDING CLASS 4 AND MULCH METHOD 2
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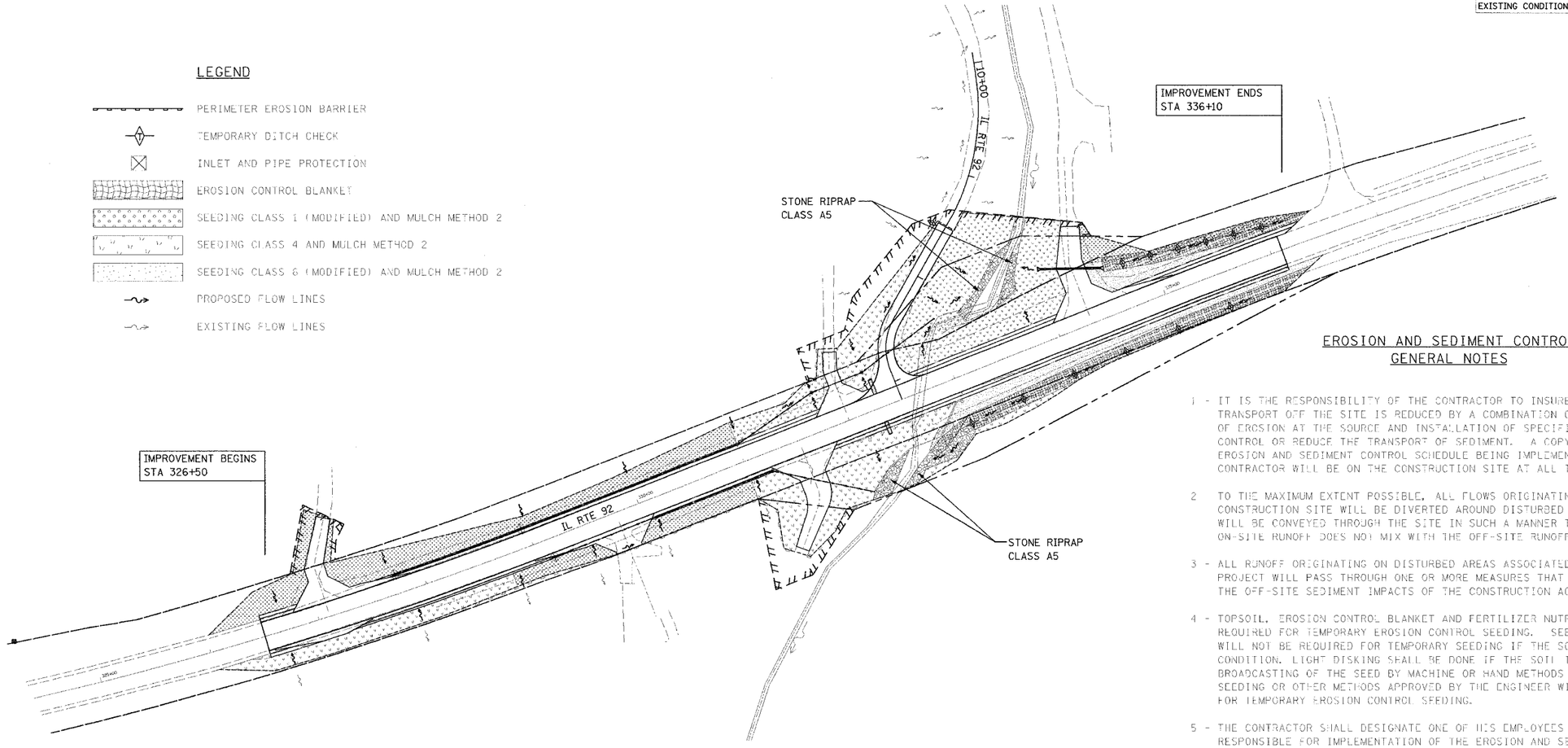
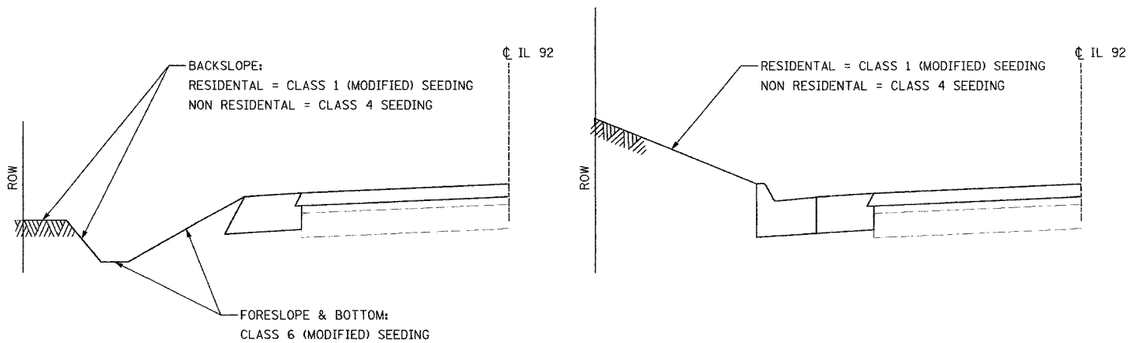
- EXISTING FLOW LINES





SEEDING DETAIL

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50' 0 50' 100'
SCALE: 1" = 50'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 599 (IL 92)
SECTION 42MFT-T
ROCK ISLAND COUNTY

EROSION CONTROL PLAN

DRAWN BY: HLC

PLOT DATE: 08/31/2005 02:25:08 PM D16900DER.dgn

EROSION CONTROL PLAN

08/31/2005
-DATE_TIME_
-ADM-SEC-
-REF-
-REF-
-REF-

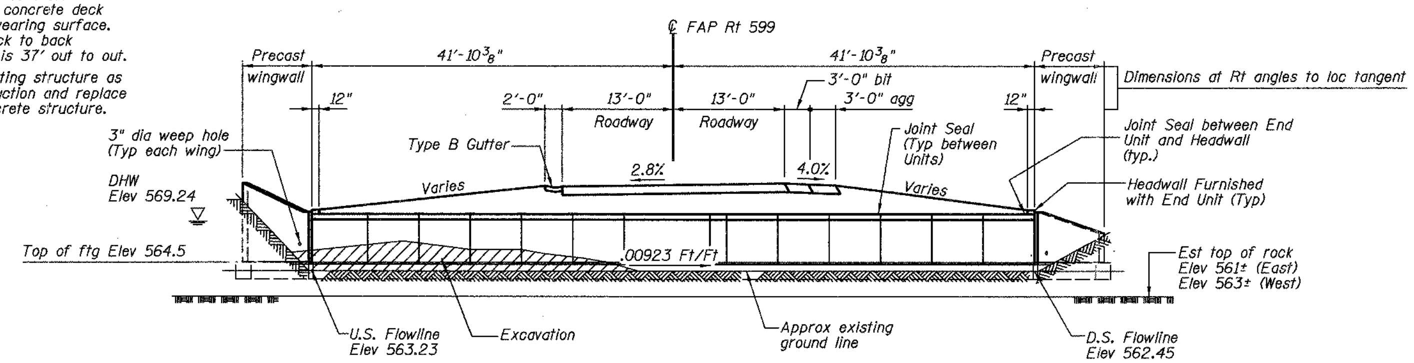
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark #402:
Chiseled "☐" on NE wingwall of bridge just east of Andalusia
Elev 574.03

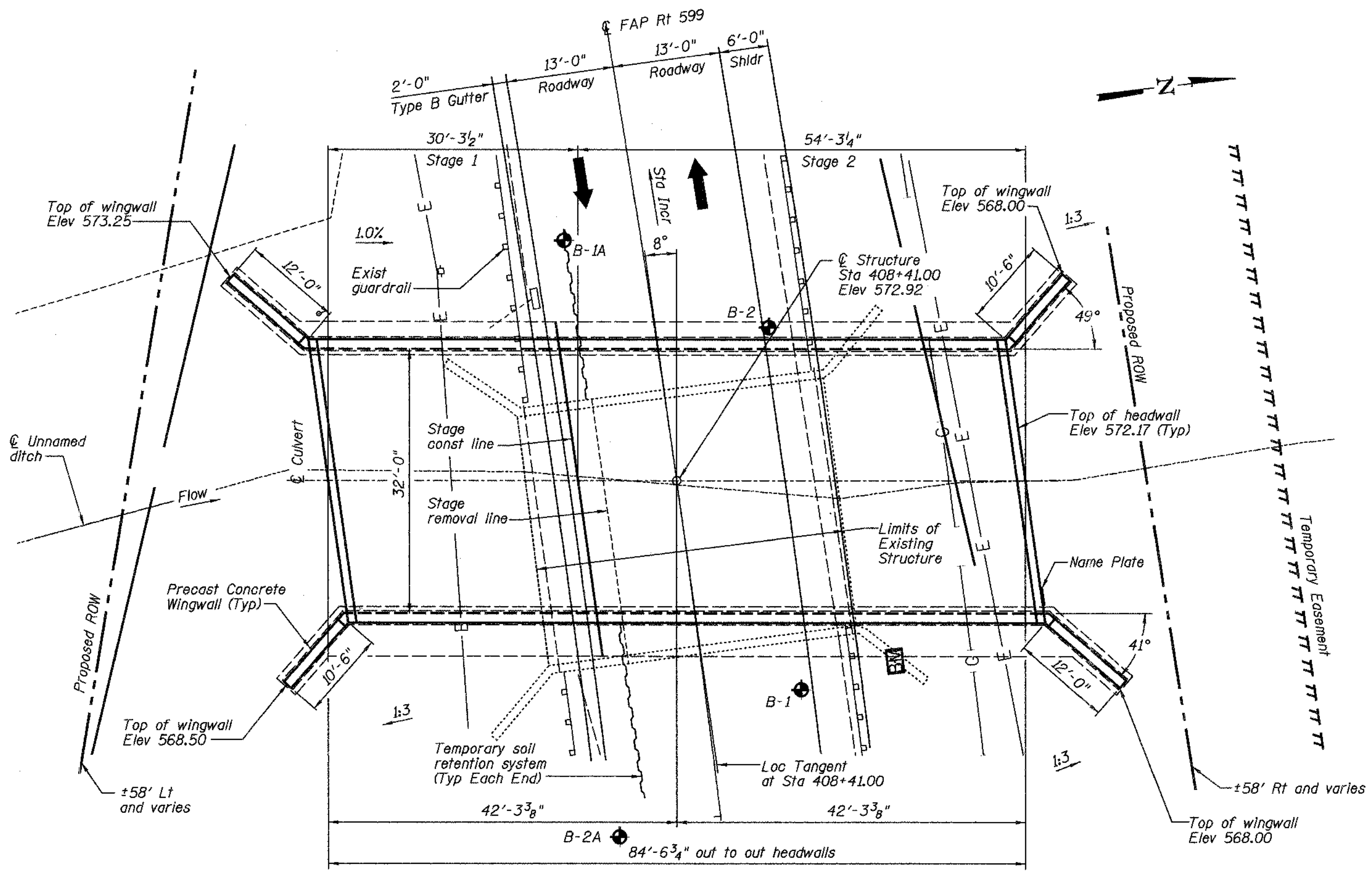
Existing Structure (SN 081-0075):
A single span, cast in place concrete tee beam bridge with a 6½" concrete deck and a bituminous concrete wearing surface. The bridge length is 33' back to back of abutments and the width is 37' out to out.

Contractor shall remove existing structure as required using stage construction and replace with a 3-sided precast concrete structure.

No salvage.

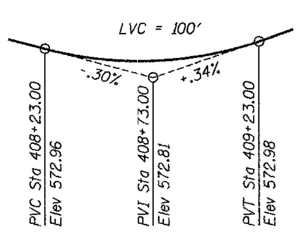


LONGITUDINAL SECTION



PLAN

EX CURVE 1
PI STA 409+32.70
Δ = 14° 39' 17" (LT)
D = 2° 52' 38"
T = 256.06'
R = 1,991.30'
L = 509.32'
E = 16.40'
e = 0.04 (AVERAGE)
PC STA 406+76.64
PT STA 411+85.97



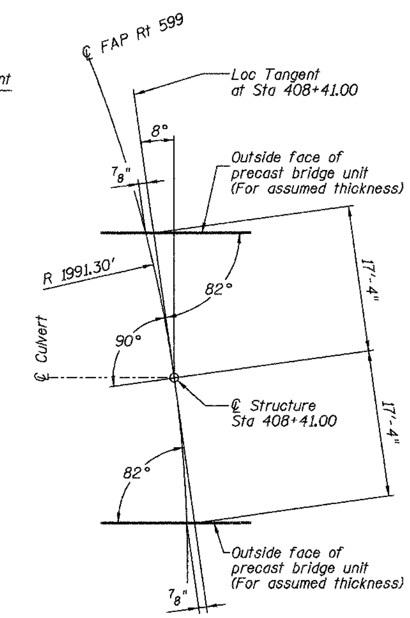
PROFILE GRADE

WATERWAY INFORMATION

Drainage Area = 1.95 sq mi	Low Grade Elev 573.00 @ Sta 407+00								
Flood	Freq Yr	Q C.F.S.	Opening Sq Ft		Nat. H.W.E.	Head-Ft		Headwater El	
			Exist	Prop		Exist	Prop	Exist	Prop
Design	50	1411	105.8	192.3	569.24	1.01	0.98	570.25	570.22
Base	100	1639	113.0	198.1	569.42	1.31	1.36	570.73	570.78
Max	500	2192	127.2	215.4	569.96	2.17	2.26	572.13	572.22

STATION 408+41.00
BUILT 200 BY
STATE OF ILLINOIS
FAP ROUTE 599
SECTION 42-MFT-BR
LOADING HS20
STR. NO. 081-1009

NAME PLATE
See Std. 515001



OFFSET SKETCH

DESIGN SPECIFICATIONS
2002 AASHTO

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

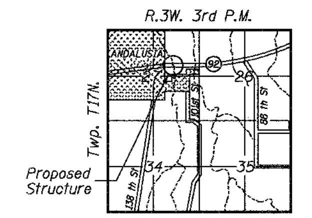
PRECAST UNITS
f'c = 5,000 psi
fy = 60,000 psi (reinforcement)
fy = 65,000 psi (welded wire fabric)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .033
Site Coefficient (S) = 1.0

Max. Allowable
Bearing Pressure = 5.0 TSF

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER
CORY W. CHAMBERLAIN
081-005882
STATE OF ILLINOIS
8-29-05
Exp 11-30-06



LOCATION SKETCH

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

All Construction joints shall be bonded.

Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage 1 removal.

The footing design for the precast structure is based on the following maximum service load reactions applied at the top of the footing/pedestal walls:
Vertical: 9.8 kips/ft ℄ + 4.6 kips/ft LL
Horizontal: 7.2 kips/ft ℄ + 2.9 kips/ft LL

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details and the required seals shall be submitted for review and approval.

After the keyways have been grouted and cured, the joints on all three sides of the structure shall be externally sealed using 12" wide external sealing bands conforming to Article 1057.01. Cost included with Three Sided Precast Concrete Structures.

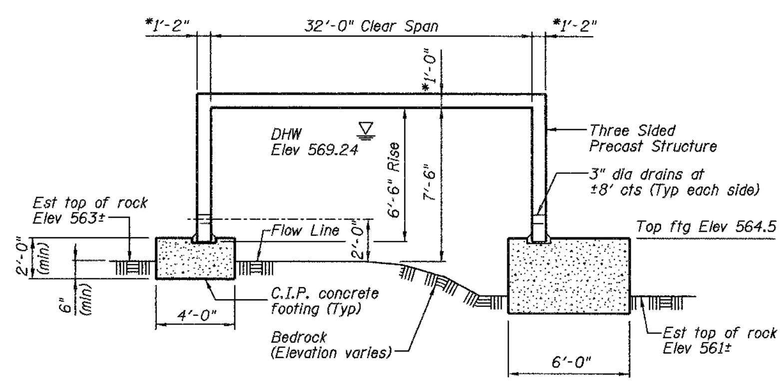
The option of using precast footings is not allowed. Portions of footings set in rock shall be poured against in-place rock.

The Contractor will fill any scour holes in the rock in the area of the structure with Class SI Concrete. Cost included with Concrete Structures.

The minimum gross clear area of the opening of the structure shall be 192 sq ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each	1	--	1
Rock Excavation for Structures	Cu Yd	--	18.4	18.4
Concrete Structures	Cu Yd	--	110.4	110.4
Reinforcement Bars	Pound	--	5670	5670
Name Plates	Each	1		1
Three Sided Precast Concrete Structure 32' x 6'-6"	Foot	84.6	--	84.6
Precast Concrete Substructure	L Sum	--	1	1
Temporary Soil Retention System	Sq Ft	--	271.8	271.8
Bar Splicers	Each	--	26	26



SECTION THRU BARREL LOOKING DOWNSTREAM

*Assumed dimensions for three sided precast concrete structure. Dimensions may vary.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

GENERAL PLAN AND ELEVATION

REVISIONS (NO. | DATE | INITIALS)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 — SECTION 42 MFT-BR
SN 081-1009
STA 408+41.00 — ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

DRAWN BY	DATE
R King	2/05
CHECKED BY	DATE
BWP	2/05
QA/QC BY	DATE
CWC	2/05

BOOK NUMBER

PROJECT No. 4858-4

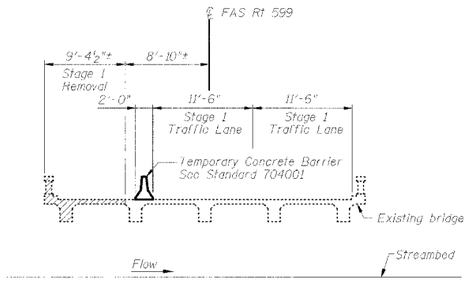
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	36
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

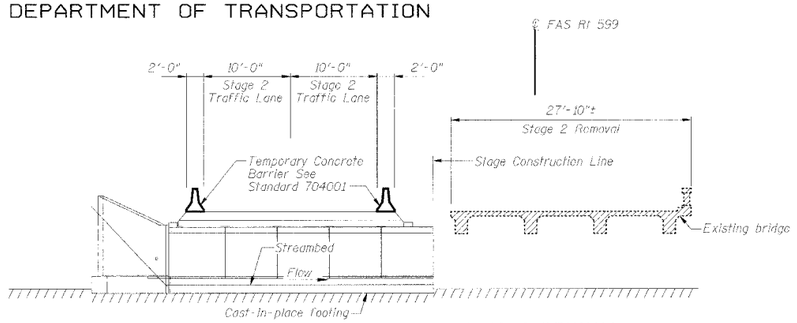
Sheet No. 2 of 7 Sheets

*42 MFT-BR

CONTRACT NO. 64641



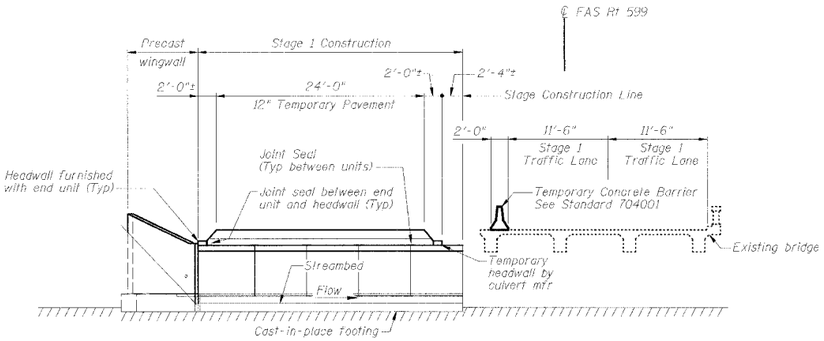
STAGE 1 REMOVAL
(Looking Upstation)



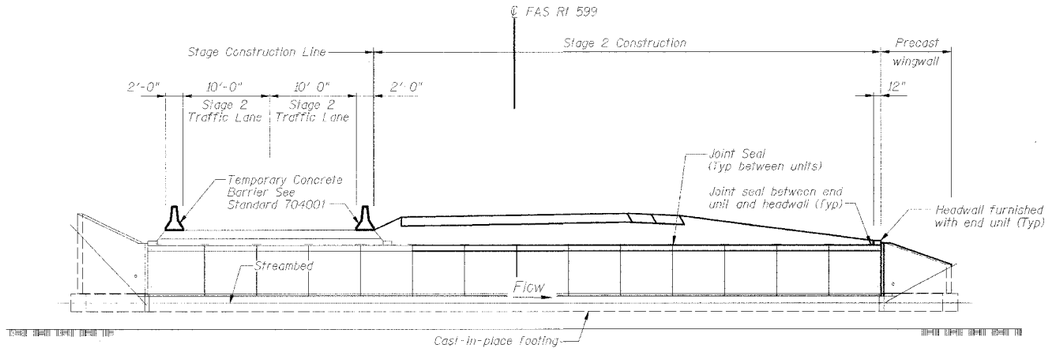
STAGE 2 REMOVAL
(Looking Upstation)

NOTES

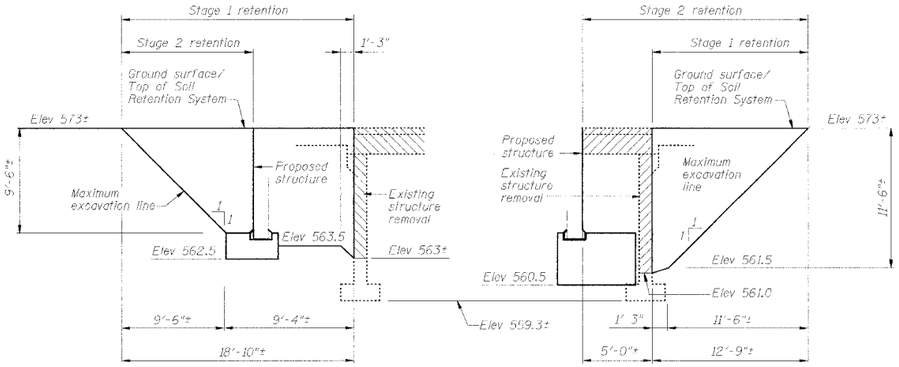
1. For quantity and location of Temporary Concrete Barrier see Roadway Plans.
2. Hatched are indicates Removal of Existing Structure.
3. Horizontal dimensions are at right angles to ℄ Roadway.
4. Stage 3 omitted. No work performed at structure during Stage 3. See Maintenance of Traffic Plans for Stage 3 details.



STAGE 1 CONSTRUCTION
(Looking Upstation)



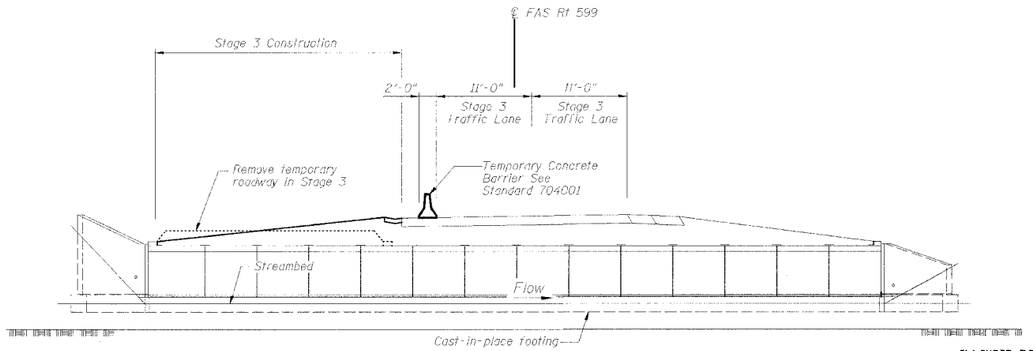
STAGE 2 CONSTRUCTION
(Looking Upstation)



TEMPORARY SOIL RETENTION DETAILS

(Slope and horizontal dimensions are measured parallel to ℄ Roadway)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and approval by the Engineer. Approval requires 4 to 6 weeks.



STAGE 4 CONSTRUCTION
(Looking Upstation)

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

CONSTRUCTION STAGING

REVISIONS		
No.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 SECTION 42 MFT-BR

SN 081-1009

STA 408+41.00 ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

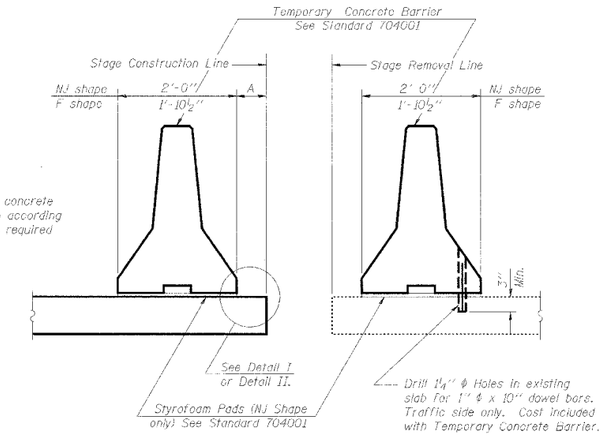
DRAWN BY / DATE	R King 2/05
CHECKED BY / DATE	DWP 2/05
QA/QC BY / DATE	CWC 2/05
BOOK NUMBER	
PROJECT No.	4858-4
SHEET No.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Sheet No. 3 of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	37
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

*42 MFT-BR CONTRACT NO. 64641



When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NEW SLAB **EXISTING SLAB**

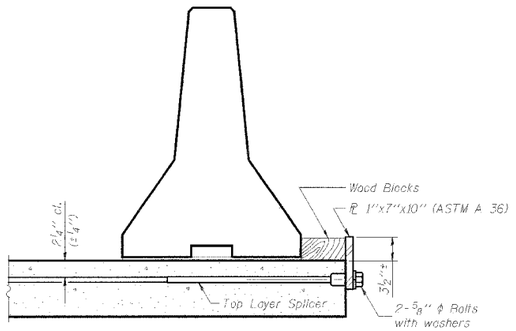
SECTIONS THRU SLAB

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

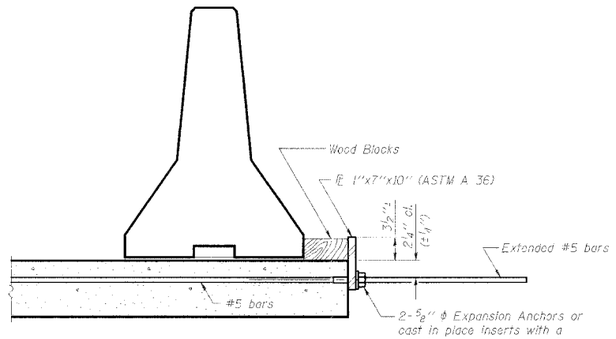
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel ℙ to the concrete slab with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.



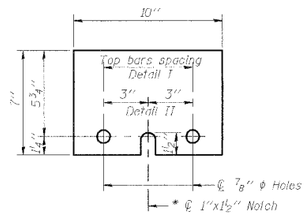
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



ℙ 1"x7"x10"

* Required only with Detail II

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

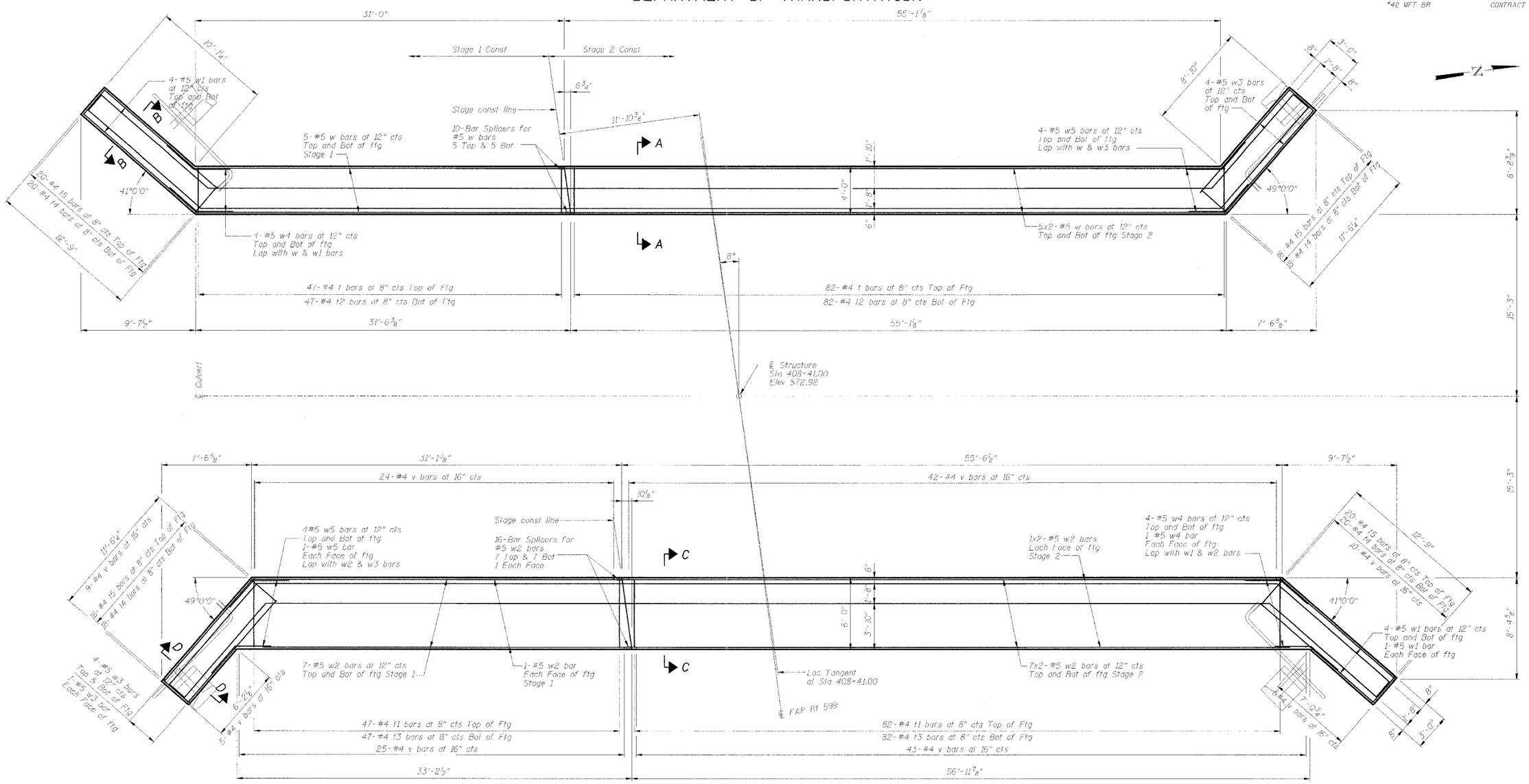
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION

REVISIONS			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY / DATE: R King 2/05
No.	DATE	INITIALS		CHECKED BY / DATE: BWP 2/05
1				QA/QC BY / DATE: CWC 2/05
2				BOOK NUMBER
3			FAP ROUTE 599 SECTION 42 MFT-BR	
4			SN 081-1009	
5			STA 408+41.00 ROCK ISLAND COUNTY	PROJECT No. 4858-4
6				
7				
8				
9			HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001391	SHEET No.
10				
11				
12				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 509	*	ROCK ISLAND	90	38
FED.ROAD DIST.NO.		STATE	PROJECT	
*42 MFT BR			CONTRACT NO. 64641	

Sheet No. 4 of 7 Sheets

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FOOTING PLAN

MAXIMUM BEARING PRESSURE

Applied = 8.6 ksf (at West footing)
Applied = 6.2 ksf (at East footing)
Applied = 3 ksf estimated (at Wingwall)

MIN BAR LAP

#5 bars = 2'-2"

NOTES

Structure footing is to be poured monolithically with wingwall footing.

The new footings shall be set 6" minimum into sound rock. The thickness of the footings shall be increased if required to maintain this embedment.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

FOOTING DETAILS

REVISIONS		
NO.	DATE	INITIALS
1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 SECTION 42 MFT-BR
SN 081-1009
STA 408+41.00 ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

DRAWN BY / DATE	R King 2/05
CHECKED BY / DATE	DWP 2/05
QA/QC BY / DATE	CWC 2/05
BOOK NUMBER	
PROJECT No.	4858-4
SHEET No.	

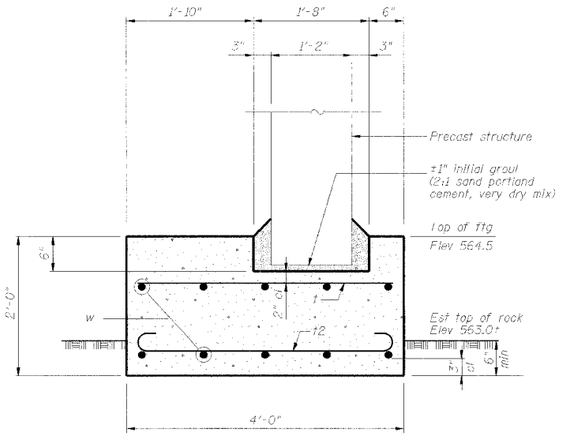
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	39
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

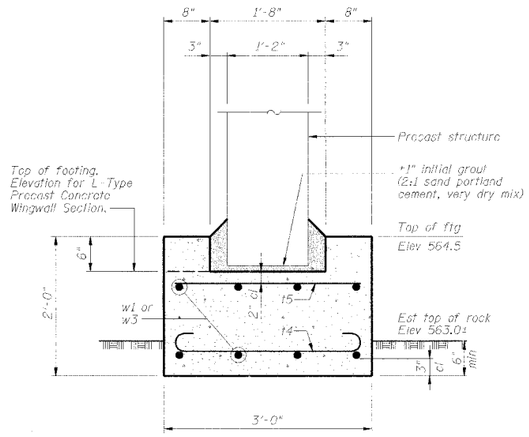
Sheet No. 5 of 7 Sheets

*42 MFT-BR

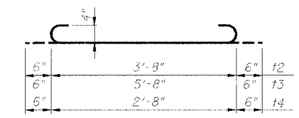
CONTRACT NO. 64641



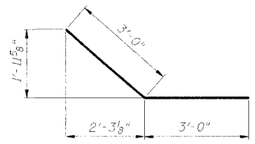
SECTION A-A



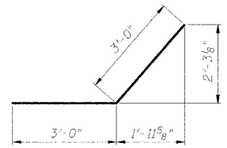
SECTION B-B



BARS t2, t3 & t4



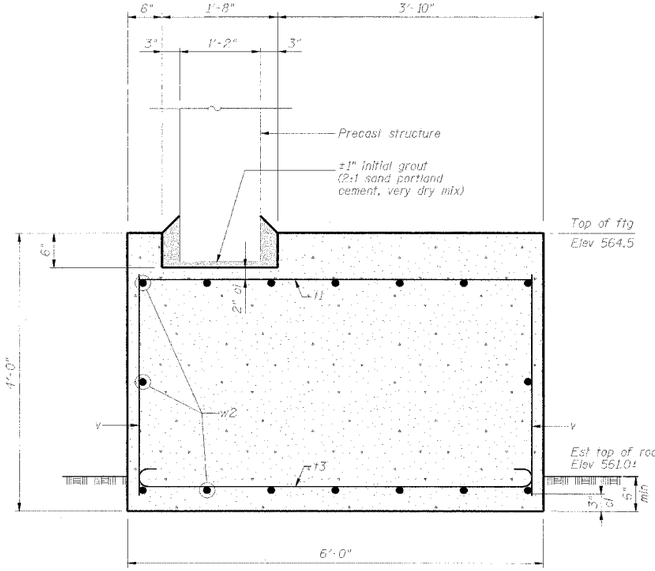
BAR w4



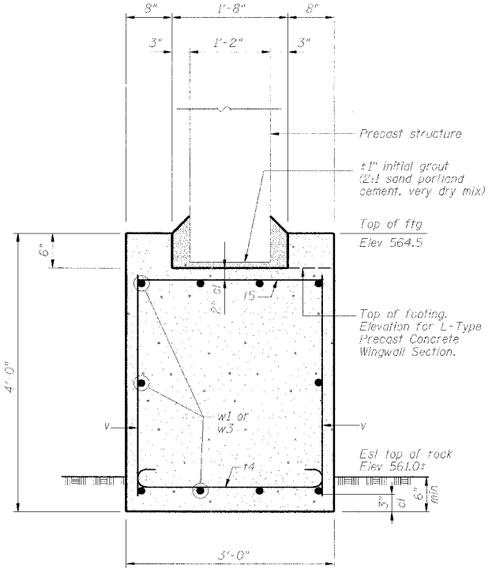
BAR w5

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
t	129	#4	3'-8"	
t1	129	#4	5'-8"	
t2	129	#4	4'-8"	
t3	129	#4	6'-8"	
t4	76	#4	3'-8"	
t5	76	#4	2'-8"	
v	164	#4	3'-7"	
w	30	#5	30'-0"	
w1	18	#5	12'-9"	
w2	48	#5	31'-1"	
w3	18	#5	11'-6"	
w4	18	#5	6'-0"	
w5	18	#5	6'-0"	
Concrete Structures		Cu. Yd.	110.4	
Reinforcement Bars		Pound	5670	
Rock Excavation for Structures		Cu. Yd.	18.4	



SECTION C-C



SECTION D-D

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

FOUNDATION DETAILS

REVISIONS		
No.	DATE	INITIALS
1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 SECTION 42 MFT BR
SN 081-1009
STA 408+41.00 ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

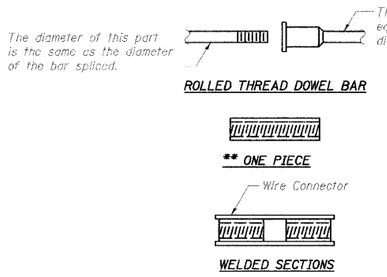
DRAWN BY	DATE
R King	2/05
CHECKED BY	DATE
BWP	2/05
QA/QC BY	DATE
CWC	2/05
BOOK NUMBER	
PROJECT No.	
4858-4	
SHEET No.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Sheet No. 6 of 7 Sheets

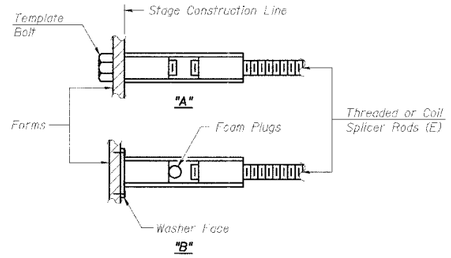
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	40
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

*42 MFT-BR CONTRACT NO. 64641



BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

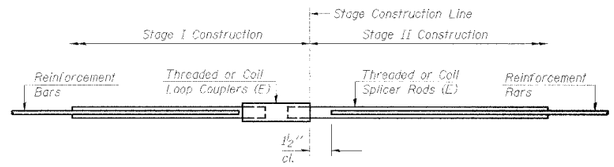
② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#5	10	West footing
#5	16	East footing

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

BAR SPLICER ASSEMBLY DETAILS

REVISIONS		
NO.	DATE	DETAILS
1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 SECTION 42 MFT-BR
SN 081-1009
STA 408+41.00 ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001397

DRAWN BY	DATE
R King	2/05
CHECKED BY	DATE
EWP	2/05
QA/QC BY	DATE
CWC	2/05
BOOK NUMBER	
PROJECT NO.	4858-4
SHEET NO.	

BSD-1 9-01-03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	41
FED.ROAD DIST.NO.		ILLINOIS	PROJECT	

Sheet No. 7 of 7 Sheets

*42 MFT-BR

CONTRACT NO. 64641

Bridge Foundation Boring Log

Andalusia Twp. - Sec. 27 - T17N, R3W
Elev. @ Center of Structure - 100.0

Sh. 1 of 1

PROJECT _____ BRIDGE 081-0075 Date 07/07/94

ROUTE SA 9 Ditch on the east edge of Andalusia Bored By J. Twardowski

SEC. 42 MFT STA. 408 + 35 Checked By T. Bratt

COUNTY Rock Island

Boring No. B-1
Sta 408 + 16
O/S 11' Rt

Surf Wat El. 91.5
Grndwater El. at Compl ____
At ____ Hrs ____

DEPTH	N	Qu t/sf	W %	DEPTH	N	Qu t/sf
Ground Surface 99.9 0						
MEDIUM dark brown SILTY CLAY LOAM		0.6 P	14			
MEDIUM dark brown SILTY CLAY LOAM -5	2 2 3	0.6 P	13	-25		
MEDIUM brown SILTY CLAY LOAM	2 3 5	0.6 B	19			
VERY SOFT brown SANDY LOAM	3 2 2	0.2 P	15	-30		
Streambed Elev. - 91.3 First Encounter V -30						
SOFT dark gray SILTY CLAY w/SAND lens	1 2 2	0.3 P	25			
VERY DENSE light gray SHALE	100 - 1" pent			-35		
END OF BORING - AUGER REFUSAL -35						
				-40		

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer

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Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/27/03

ROUTE FAP 599 DESCRIPTION PS2-169-00 IL 92 over ditch, east city limits of Andalusia LOGGED BY C. Jenkins

SECTION 42MFT-T LOCATION Andalusia Twp. - NE1/4, SEC. 27, TWP. 17N, RNG. 3W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 081-0075 Station 408+35

BORING NO. B-1a Station 408+72 Offset 10.00ft Lt Q Ground Surface Elev. 99.2 ft

Surface Water Elev. 90.7 ft
Stream Bed Elev. 90.5 ft

Groundwater Elevs.
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH	BLOWS	UCS Qu	MOIST CO
Topsoil MEDIUM black SILTY LOAM		0.6 P	11
97.20 MEDIUM brown/black SANDY LOAM	3 5 5	0.8 S	13
95.20 LOOSE tan SAND with some GRAVEL	2 3 6		
92.70 LOOSE tan/gray SAND	3 2 4		
89.20 VERY DENSE gray SHALE	2 4 50/3" REN		
87.70 Auger Refusal End of Boring 87.60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from IST Rev. 8-99

Bridge Foundation Boring Log

Andalusia Twp. - Sec. 27 - T17N, R3W
Elev. @ Center of Structure - 100.0

Sh. 1 of 1

PROJECT _____ BRIDGE 081-0075 Date 07/07/94

ROUTE SA 9 Ditch on the east edge of Andalusia Bored By J. Twardowski

SEC. 42 MFT STA. 408 + 35 Checked By T. Bratt

COUNTY Rock Island

Boring No. B-2
Sta 408 + 58
O/S 13' Rt

Surf Wat El. 91.5
Grndwater El. at Compl 99.2
At ____ Hrs ____

DEPTH	N	Qu t/sf	W %	DEPTH	N	Qu t/sf
Ground Surface 100.4 0						
SOFT dark brown SILTY CLAY LOAM		0.5 P	12			
MEDIUM dark brown SANDY LOAM -5	5 4 3	1.0 P	11	-25		
Same as above	9 6 5	0.7 P	14			
VERY SOFT dark brown SANDY LOAM Streambed Elev.- 91.2 -10	3 3 5	0.2 P	14	-30		
VERY DENSE dark gray SHALE	9 21 80					
VERY DENSE dark gray SHALE	100 - 1" pent			-35		
END OF BORING - AUGER REFUSAL -15						
				-40		

S-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer

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Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/27/03

ROUTE FAP 599 DESCRIPTION PS2-169-00 IL 92 over ditch, east city limits of Andalusia LOGGED BY C. Jenkins

SECTION 42MFT-T LOCATION Andalusia Twp. - NE 1/4, SEC. 27, TWP. 17N, RNG. 3W

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 081-0075 Station 408+35

BORING NO. B-2a Station 407+82 Offset 13.00ft Lt Q Ground Surface Elev. 99.4 ft

Surface Water Elev. 90.7 ft
Stream Bed Elev. 90.5 ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH	BLOWS	UCS Qu	MOIST CO
Rock Probe			
Shale @ 10'			
End of Rock Probe Auger Refusal @ 10.2'			
89.20 End of Boring -10			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from IST Rev. 8-99

NOTE:

The elevation datum on boring logs 100.00 = Elev 573.2 on plans.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

SOIL BORING LOGS

REVISIONS		
NO.	DATE	DETAILS
1		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FAP ROUTE 599 SECTION 42 MFT-BR
SN 081-1009
STA 408+41.00 ROCK ISLAND COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184.001397

DRAWN BY / DATE	R King 2/05
CHECKED BY / DATE	BWP 2/05
QA/QC BY / DATE	CWC 2/05
BOOK NUMBER	
PROJECT No.	4858-4
SHEET No.	

Bench Mark #400:
Cut "□" SE corner of west wingwall at SW quad of Il 92 & 85th St West
Elev 579.76

Existing Structure (SN 081-1001):
A single span, cast in place concrete slab bridge with a 20" concrete deck and a bituminous concrete wearing surface. The bridge length is 21' back to back of abutments and 53'-6" between headwalls

The existing structure is to be removed and replaced with a double 10'x8' box culvert.

The road will be closed during Construction.

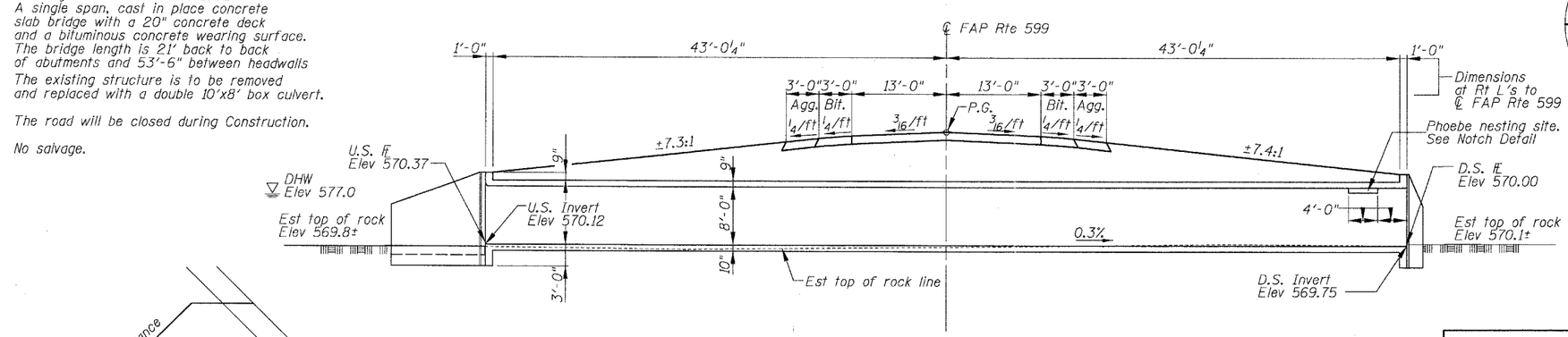
No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

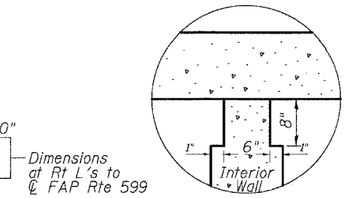
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	42
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
4 SHEETS

Contract NO: 64641



LONGITUDINAL SECTION



NOTCH DETAIL

GENERAL NOTES

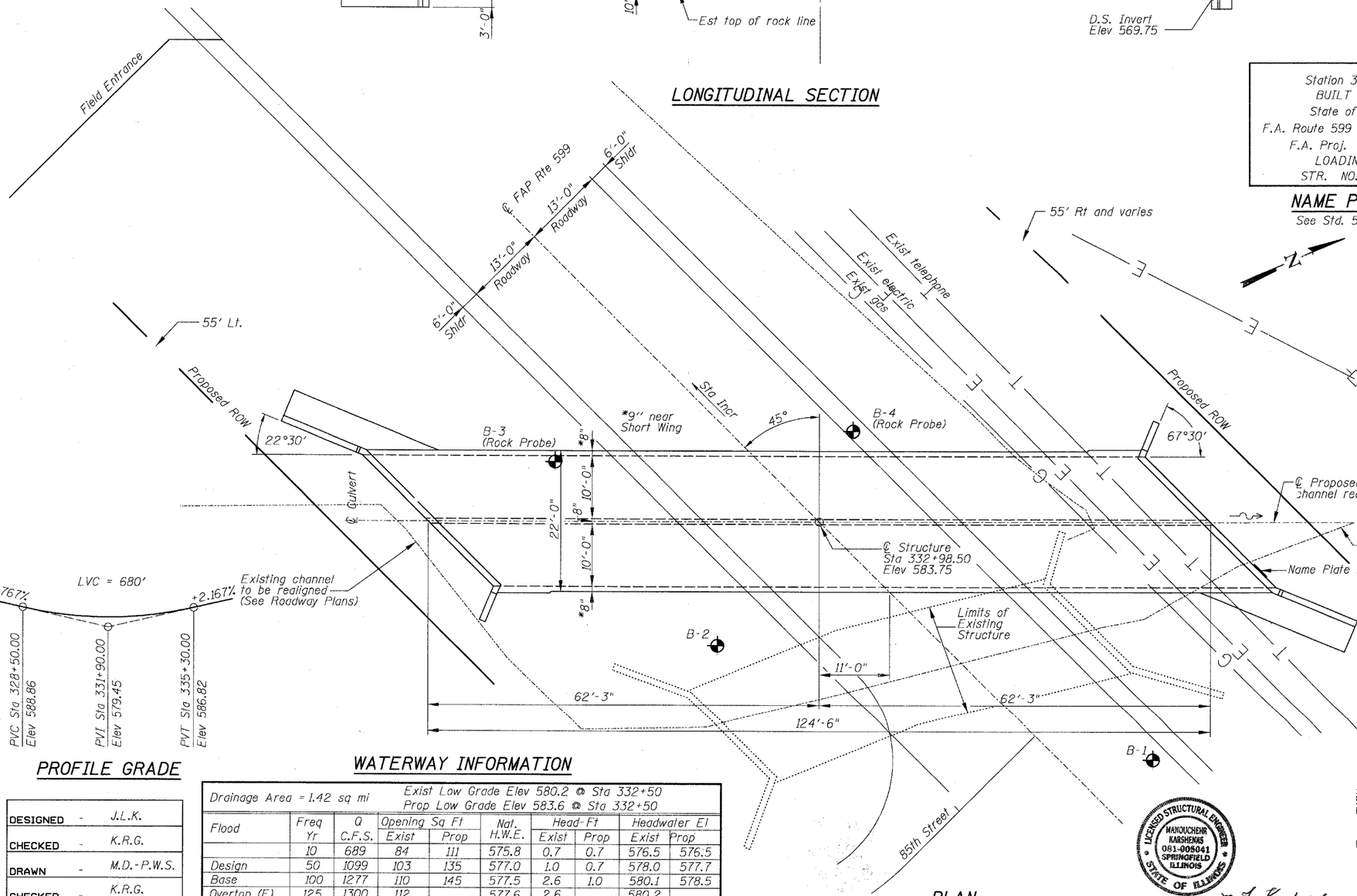
1. Reinforcement bars shall conform to the requirements of AASHTO M31, or M322 Grade 60.
2. Excavation behind existing abutment walls shall be done before removing the existing superstructure.
3. Precast concrete culvert construction option will not be allowed.
4. All Construction joints shall be bonded.
5. Excavate 1' underneath the proposed cutoff walls and the stem of the short wing walls into shale. The footprint of excavation shall extend 1' outside of each element. Use granular backfill as a replacement material.
6. Over excavate 6" below the toe of the L type walls and restore the over excavation with seal coat concrete. The excavated area at the front face of the wall shall be filled with granular backfill. No over-excavation should occur behind the wing to allow the rear face of the stem and footing to be placed against the excavated shale surface.

Station 332+98.50
BUILT BY
State of Illinois
F.A. Route 599 Sec. 42 MFT-T
F.A. Proj.
LOADING HS20
STR. NO. 081-1008

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Concrete Box Culverts	Cu.Yd.	271.9
Reinforcement Bars	Pound	51160
Name Plates	Each.	1
Rock Excavation for Structures	Cu. Yd.	14.5



PLAN

PROFILE GRADE

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

WATERWAY INFORMATION

Drainage Area = 1.42 sq mi
Exist Low Grade Elev 580.2 @ Sta 332+50
Prop Low Grade Elev 583.6 @ Sta 332+50

Flood	Freq Yr	Q C.F.S.	Opening Sq Ft Exist	Opening Sq Ft Prop	Nat. H.W.E.	Head-Ft Exist	Head-Ft Prop	Headwater El Exist	Headwater El Prop
	10	689	84	111	575.8	0.7	0.7	576.5	576.5
Design	50	1099	103	135	577.0	1.0	0.7	578.0	577.7
Base	100	1277	110	145	577.5	2.6	1.0	580.1	578.5
Overtop (E)	125	1300	112		577.6	2.6		580.2	
Max Calc	500	1707	124	160	578.4	2.9	2.0	581.3	580.4

LICENSED STRUCTURAL ENGINEER
MANOUCHEHR KARSHENAS
081-005041
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

m. J. Karshenas
Illinois Structural No. Date

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
LOADING HS20-44

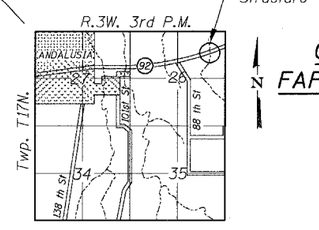
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .033
Site Coefficient (S) = 1.0



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
FAP ROUTE 599 - SECTION 42 MFT-T
ROCK ISLAND COUNTY
STATION 332+98.50
STRUCTURE NO. 081-1008

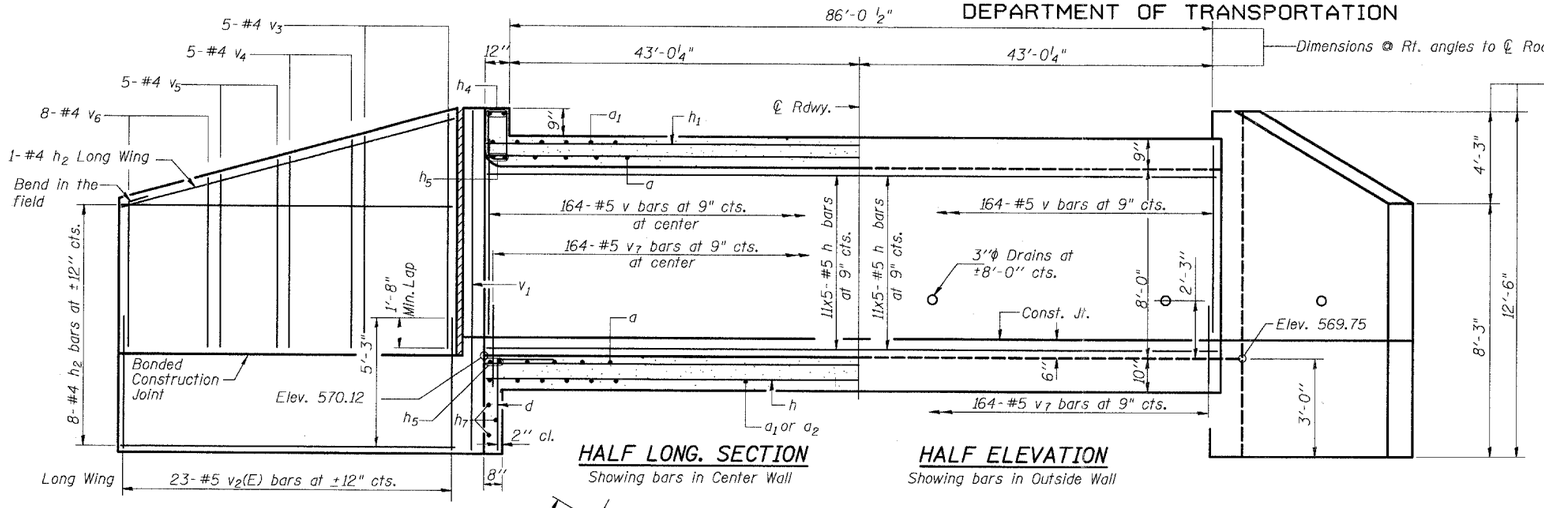
MID-AMERICA ENGINEERING SERVICES
975 South Durkin Dr, Springfield IL 62704

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
4 SHEETS

Contract No. 64641

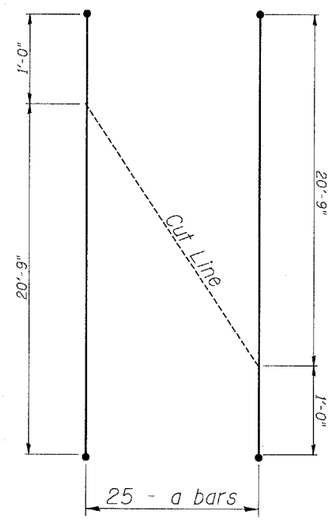
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



HALF LONG. SECTION
Showing bars in Center Wall

HALF ELEVATION
Showing bars in Outside Wall

REINFORCEMENT DETAILS
(Long Wing)



Bar Cutting Diagram

MIN. REBAR LAP LENGTH
Unless Noted otherwise

#4 Bar Size = 1'-4"
#5 Bar Size = 1'-8"

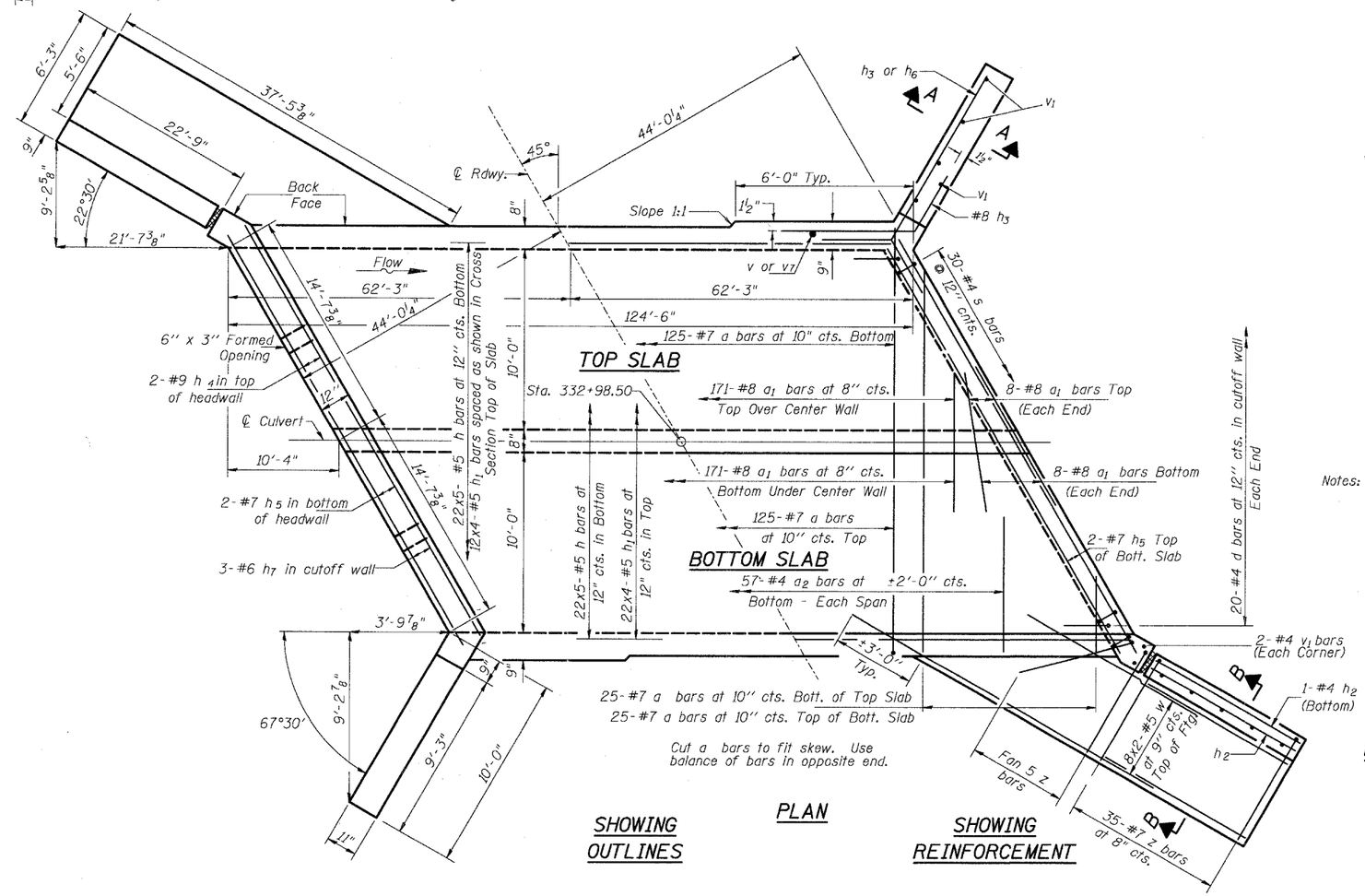
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	300	#7	23'-5"	
a1	374	#8	9'-8"	
a2	114	#4	7'-4"	
d	40	#4	4'-6"	
h	385	#5	26'-3"	
h1	136	#5	32'-4"	
h2	20	#4	22'-4"	
h3	26	#8	8'-10"	
h4	4	#9	30'-0"	
h5	8	#7	30'-6"	
h6	20	#8	12'-11"	
h7	6	#6	30'-0"	
s	60	#4	4'-7"	
v	494	#5	8'-0"	
v1	14	#4	12'-2"	
* v2(E)	46	#5	5'-3"	
v3	10	#4	8'-9"	
v4	10	#4	7'-9"	
v5	10	#4	6'-10"	
v6	16	#4	5'-11"	
v7	494	#5	3'-0"	
w	32	#5	21-0"	
z	80	#7	8'-8"	
Concrete Box Culverts			Cu. Yd.	271.9
Reinforcement Bars			Pound	5160

* Reinforcement bars designated (E) shall be epoxy coated. The cost of Epoxy Coating is included in the pay item "Reinforcement Bars".

Notes: A distance of half the length of the short wingwall but not less than six feet of the barrel shall be poured monolithically with the short wingwalls. Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

The cost of porous granular backfill in the excavated areas around the cut off wall and the horizontal cantilever wall stem and the seal coat concrete below the toe & the porous granular backfill in front of the L-Type wing is included in the pay item " Concrete Box Culverts".



SHOWING OUTLINES

PLAN

SHOWING REINFORCEMENT

CULVERT DETAILS
FAP ROUTE 599 - SECTION 42 MFT-T
ROCK ISLAND COUNTY
STATION 332+98.50
STRUCTURE NO. 081-1008

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

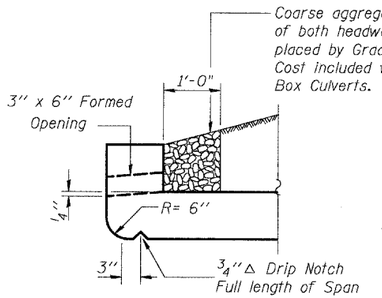
MID-AMERICA ENGINEERING SERVICES
975 South Durkin Dr, Springfield IL 62704

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

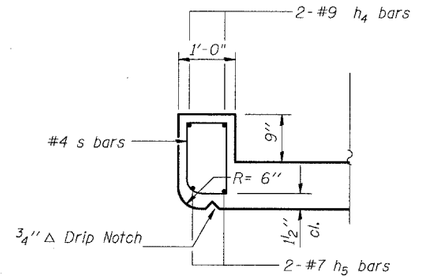
SHEET NO. 3
4 SHEETS

Contract No. 64641



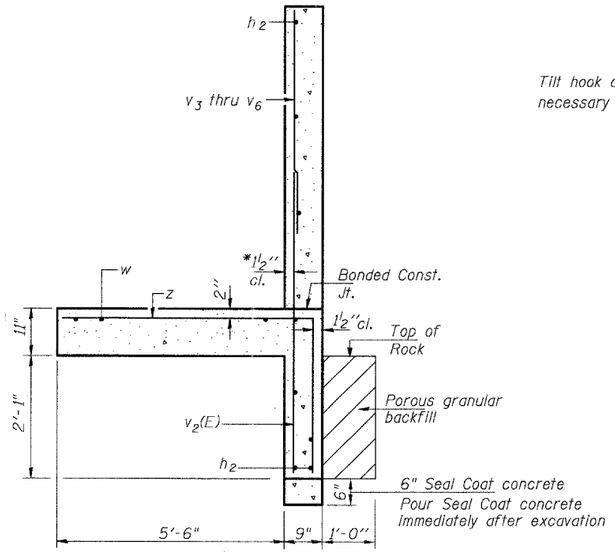
DRAIN DETAIL

Upstream & Downstream Ends



HEADWALL REINFORCEMENT DETAIL

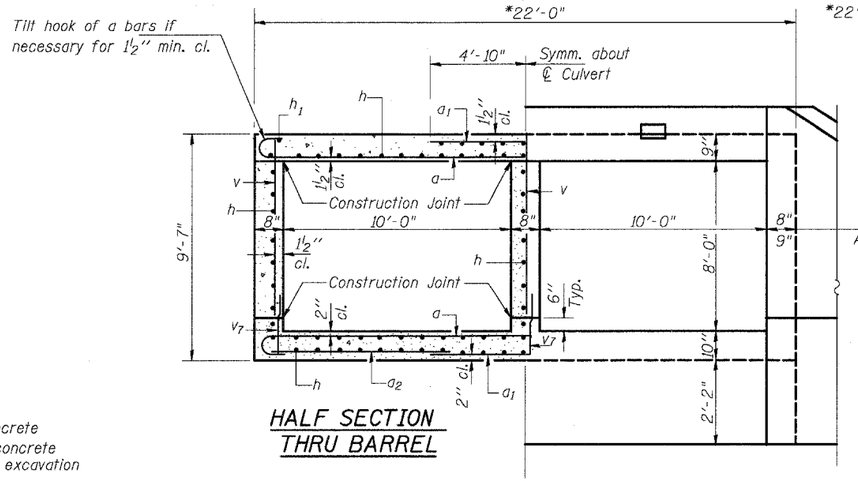
Upstream & Downstream Ends



SECTION B-B

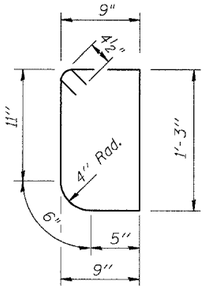
* v_2(E) bars shall not be placed more than 1 1/2" cl. from back face of wingwalls.

Maximum footing pressure = 3060 lbs/sq. ft.

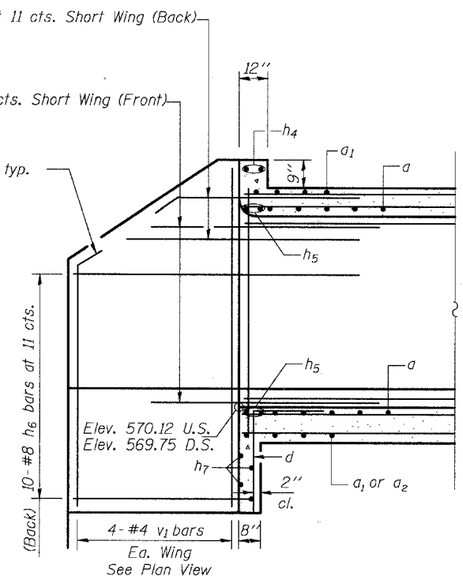


HALF SECTION THRU BARREL

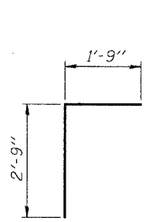
HALF END ELEVATION



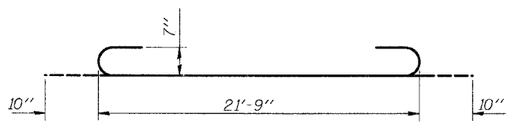
BAR s



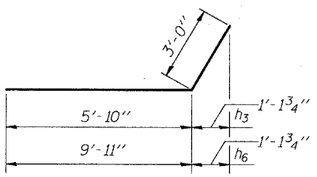
REINFORCEMENT DETAILS SHORT WING



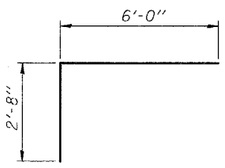
BAR d



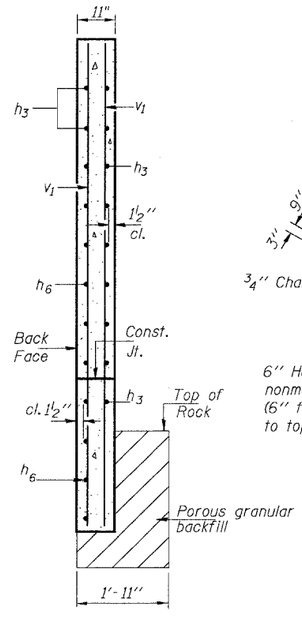
BAR a



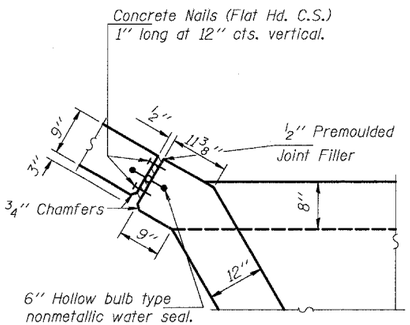
BARS h_3 & h_6



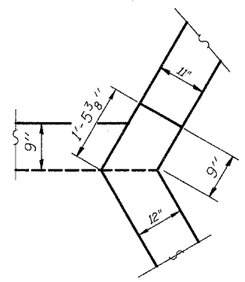
BAR z



SECTION A-A



CORNER DETAIL (LONG WING)



CORNER DETAIL (SHORT WING)

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

MISCELLANEOUS DETAILS
FAP ROUTE 599 - SECTION 42 MFT-T
ROCK ISLAND COUNTY
STATION 332+98.50
STRUCTURE NO. 081-1008

Work this Sheet with Sheet No. 2 of 4.

MID-AMERICA ENGINEERING SERVICES
975 South Durkin Dr, Springfield IL 62704

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
4 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Two Materials
Andalusia Twp.- NE 1/4 Sec. 26- T17N, R3W
Elev. @ Center of Structure- 100.0

Units English
Bridge Foundation
Boring Log

PROJECT 991 — BRIDGE Culvert over ditch on IL 92 near 88th St. W. — Date 07/15/94 — Sh. 1 of 1
ROUTE IL 92 — Bored By S. Mendoza
SEC. 42 MFT — STA. 332 + 68 — Checked By T. Bratt
COUNTY Rock Island — Boring No. B-1 — Sta 332 + 34 — O/S 10.5' Rt.
Surf Wat El. 89.4 — Grndwater El. at Compl 88.0 — At ____ Hrs ____

DEPTH	N	Qu t/sf	W %
0 Ground Surface 100.3			
Bituminous Surface		1.2 P	
STIFF rusty brown brown, black SILTY CLAY LOAM			15
	1 3 3	1.5 P	17
-5 STIFF rusty brown, gray black SILTY CLAY LOAM			
-5 VERY LOOSE fine dirty SAND with CLAY lenses	1 2 1		
first encounter V LOOSE same as above	1 1 7		
-10 VERY DENSE SHALE Streambed elev. 89.3	100 for 8"		
VERY DENSE SHALE	100 for 4"		
-15 VERY DENSE SHALE	100 for 1"		
Begin Coring Core Run #1 100% recovery			
-20 Core Run #2 100% Recovery			

End Coring

DEPTH	N	Qu t/sf	W %
-25			
-30			
-35			
-40			
-45			

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Two Materials
Elev. @ center of structure- 100.0

Units English
Bridge Foundation
Boring Log

PROJECT 991 — BRIDGE Culvert over ditch on IL 92 near 88th St. W. — Date 07/15/94 — Sh. 1 of 1
ROUTE IL 92 — Bored By S. Mendoza
SEC. 42 MFT — STA. 332 + 68 — Checked By T. Bratt
COUNTY Rock Island — Boring No. B-2 — Sta 332 + 96 — O/S 25.5' LT.
Surf Wat El. 90.5 — Grndwater El. at Compl wash — At ____ Hrs ____

DEPTH	N	Qu t/sf	W %
0 Ground Surface 99.7			
Gravel Shoulder Brown SILTY CLAY LOAM		1.0 P	
STIFF rusty brown, black SILTY CLAY LOAM with SAND lenses	4 4 4	1.0 P	13
-5 LOOSE brown dirty fine SAND with CLAY lenses	2 4 4		
VERY STIFF black SILTY CLAY LOAM with SAND lenses	100 for 9"	2.7 P	
Streambed elev.-90.4 -10 VERY DENSE LIMESTONE	100 for 1"		
Begin Coring Core Run #1 95% Recovery			
-15			
Core Run #2 100% Recovery			
-20			

End Coring

DEPTH	N	Qu t/sf	W %
-25			
-30			
-35			
-40			
-45			

next column

N-Std Pentr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

TOTAL P.33

Route: IL 92
Section: 42MFT
County: Rock Island
S.N. 081-1001 (Existing Structure)

Rock Probe #3 Sta. 333+35 - 23' Lt. Cl.
** Elevation: 99.95
Rock - 1st. encounter: 89.5
Rock - Auger refusal: 89.0

Rock Probe #4 Sta. 333+05 - 14' Rt. Cl.
** Elevation: 100.00
Rock - 1st. encounter: 93.0
Rock - Auger refusal: 90.5

**Elevations were measured from the center of the box culvert at the centerline of the roadway, which has arbitrarily been assigned an elevation of 100.00 .

Note: The elevation datum of Boring Logs 100.00 = Elev. 580.25 on plans.

DESIGNED -	J.L.K.
CHECKED -	K.R.G.
DRAWN -	M.D.
CHECKED -	K.R.G.

BORING LOGS
FAP ROUTE 599 - SECTION 42 MFT-T
ROCK ISLAND COUNTY
STATION 332+98.50
STRUCTURE NO. 081-1008

MID-AMERICA ENGINEERING SERVICES
975 South Durkin Dr, Springfield IL 62704

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

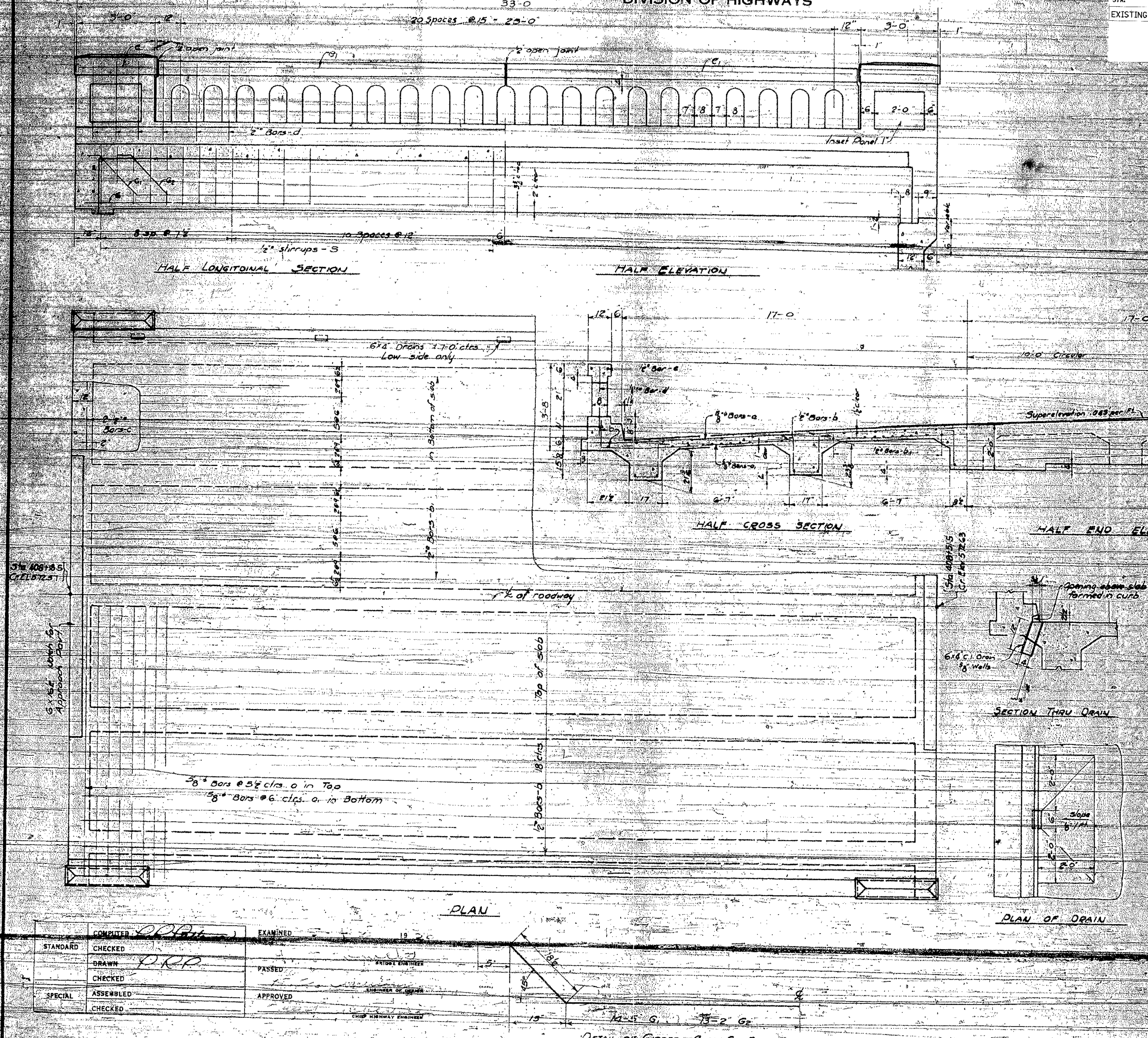
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	46

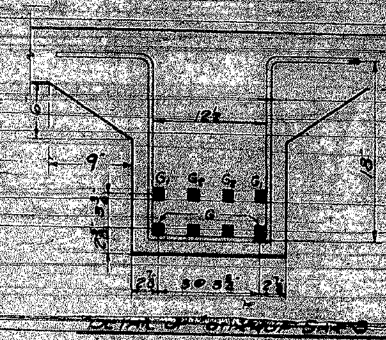
STA. TO STA.

EXISTING CONDITIONS:

CONTRACT 64641

FOR INFORMATION ONLY





BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
a	70	⅝"⌀	19'-3"
a1	64	"	20'-0"
b	40	½"⌀	16'-9"
b1	80	"	16'-9"
c	8	"	19'-0"
d	56	"	3'-0"
e	8	"	3'-0"
e1	8	"	13'-0"
G	20	1¼"⌀	32'-6"
G1	10	"	32'-9"
G2	10	"	30'-3"
S	190	½"⌀	6'-0"
Class X Concrete - Cu. Yds.			43.7
Handrail Concrete - Cu. Yds.			3.6
Reinforcing Steel - Lbs.			12600
Floor Drains - Each			6
Name Plate - Each			1

Use class X concrete throughout.
Concrete above top of rail base designated as "Handrail Concrete".

Aggregate which is to be used in handrails must be absolutely free of chert, flint, lignite, limonite and soft sandstone.

Reinforcement bars shall be placed and fastened according to Art. 45.5 of Std. Spec.

Concrete floor shall be given a smooth finish according to Art. 45.3(e) Std. Specifications.

S.A. ROUTE 9 - Sec. 42-B M.F.T.
ROCK ISLAND COUNTY
STA. 408+85

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	47
STA.	TO STA.			
EXISTING CONDITIONS:				

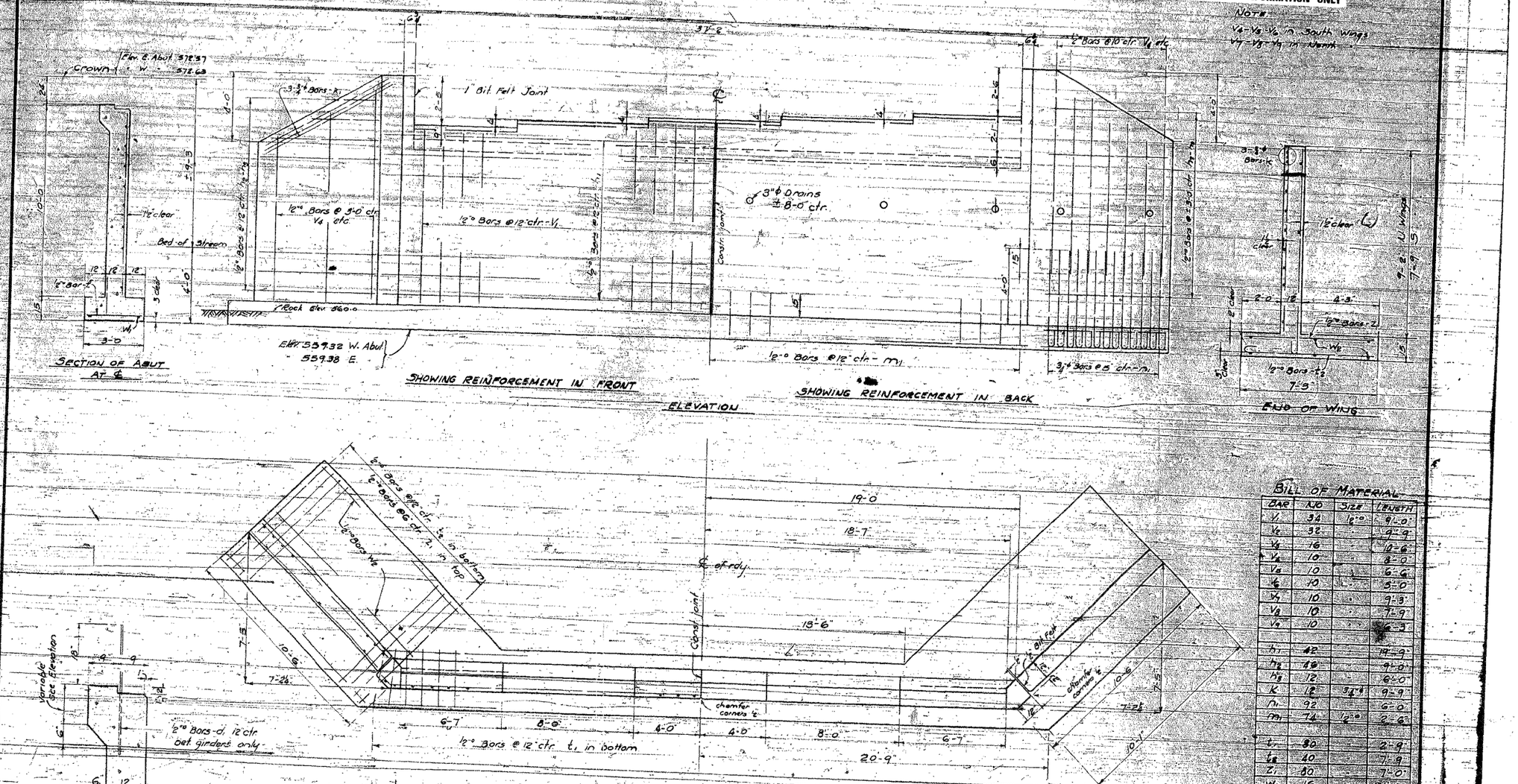
SHEET NO. 2
2 SHEETS

CONTRACT 64641

FOR INFORMATION ONLY

Existing concrete I-hr-U girder 25 span 22 rdy to be removed by Contractor.
B.M. Top E. end of S. Headwall Bridge at Sta 408+33 Elev 574.72

Note:
V4-V5-V6 in South wings
V7-V8-V9 in North



CURVE DATA
Δ = 14°-41'
D = 3°-00'
R = 1910.08'
T = 246.1'
L = 489.2'
S = .045'/ft

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH
V1	34	12"	9'-0"
V2	38	"	9'-9"
V3	16	"	12'-6"
V4	10	"	8'-0"
V5	10	"	6'-6"
V6	10	"	5'-0"
V7	10	"	9'-9"
V8	10	"	7'-9"
V9	10	"	6'-3"
h1	42	"	19'-9"
h2	18	"	9'-0"
h3	12	"	6'-0"
K	12	3/4"	9'-9"
n1	92	"	6'-0"
n2	74	1/2"	2'-6"
t1	80	"	2'-9"
t2	40	"	7'-9"
Z1	80	"	7'-0"
W1	16	"	21'-0"
W2	24	"	10'-0"
d1	64	"	5'-6"
Class X Concrete-Cu.Yds.			71.5
Reinforcing Steel Lbs.			5000
Rock Excavation-Cu.Yds.			8.5
Removal of Old Bridge-Each			1

Use Class Concrete throughout.
Reinforcement bars shall be placed and fastened according to Art. 503.5 of the Std Spec.

STANDARD	COMPUTED	RR Patterson	EXAMINED ____ 19__
	CHECKED		
	DRAWN	CRP	PASSED ____ BRIDGE ENGINEER
	CHECKED		
SPECIAL	ASSEMBLED		APPROVED ____ ENGINEER OF DESIGN
	CHECKED		____ CHIEF HIGHWAY ENGINEER

S.A. ROUTE 9 — SEC 42-B MFT
ROCK ISLAND COUNTY
STA. 408+33

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

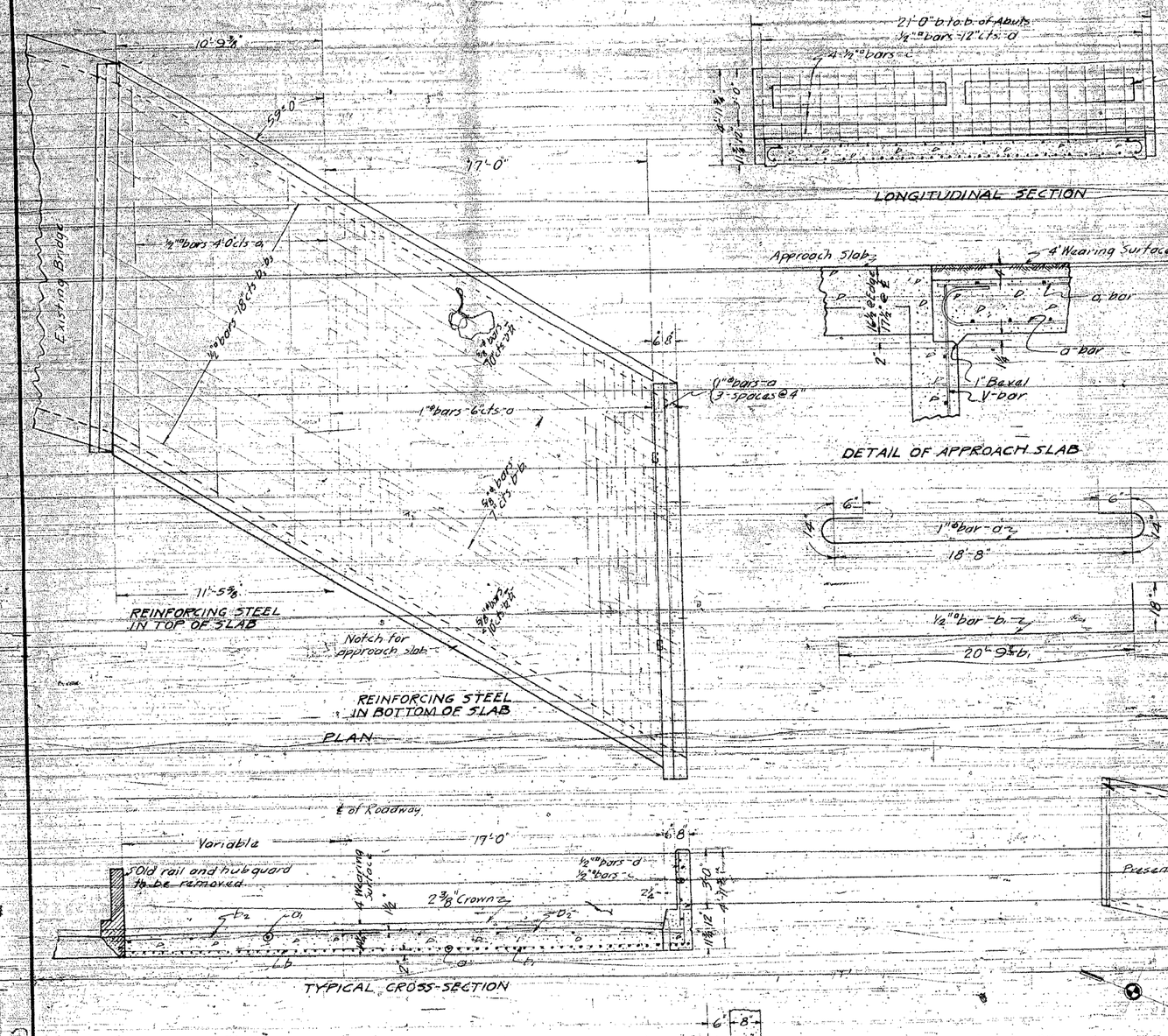
SHEET NO. 1
2 SHEETS

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	4/8
STA.	TO STA.			

EXISTING CONDITIONS:

CONTRACT 64641

FOR INFORMATION ONLY

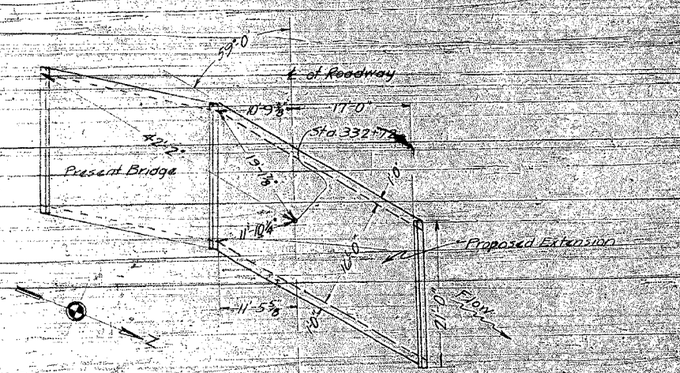


The rail paneling shall be made similar to that on the old rail

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length
a	60	1" ø	22'-0"
a	7	1" ø	18'-3"
b	27	¾" ø	21'-0"
b_2	27	¾" ø	19'-0"
b_1	13	½" ø	21'-0"
b_1	13	½" ø	19'-0"
c	8	½" ø	20'-6"
d	42	½" ø	2'-9"
Class X Conc. Cu. Yds.			28.3
Hand Rail Conc. Cu. Yds.			1.6
Reinforcing Steel Lbs.			5070
4" P.C.C. Pavement Sq. Yds.			690

Class X Concrete shall be used throughout.
Reinforcing steel shall be placed and fastened according to Article 43.5 Std. Specifications.
Old reinforcing steel shall be bent into new concrete where possible to tie them together.
In joining the old structure with the new structure Article 42.12 of Std. Specifications shall be followed.



COMPUTED	M.M.G. Peter	EXAMINED	
CHECKED			BRIDGE ENGINEER
DRAWN	M.M.G. Peter	PASSED	
CHECKED			ENGINEER OF DESIGN
SPECIAL ASSEMBLED		APPROVED	
CHECKED			CHIEF HIGHWAY ENGINEER

GUYER BRIDGE
S.A.P.T.9 SEC. 42-B-M.F.T.
ROCK ISLAND CO.
STA. 332+72

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	49

STA. TO STA.

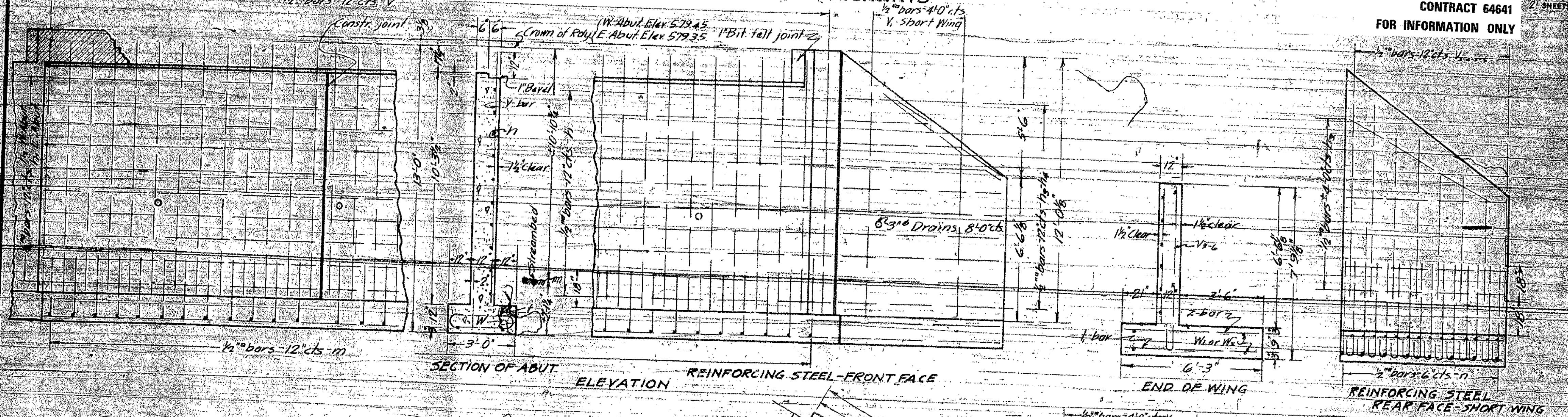
EXISTING CONDITIONS:

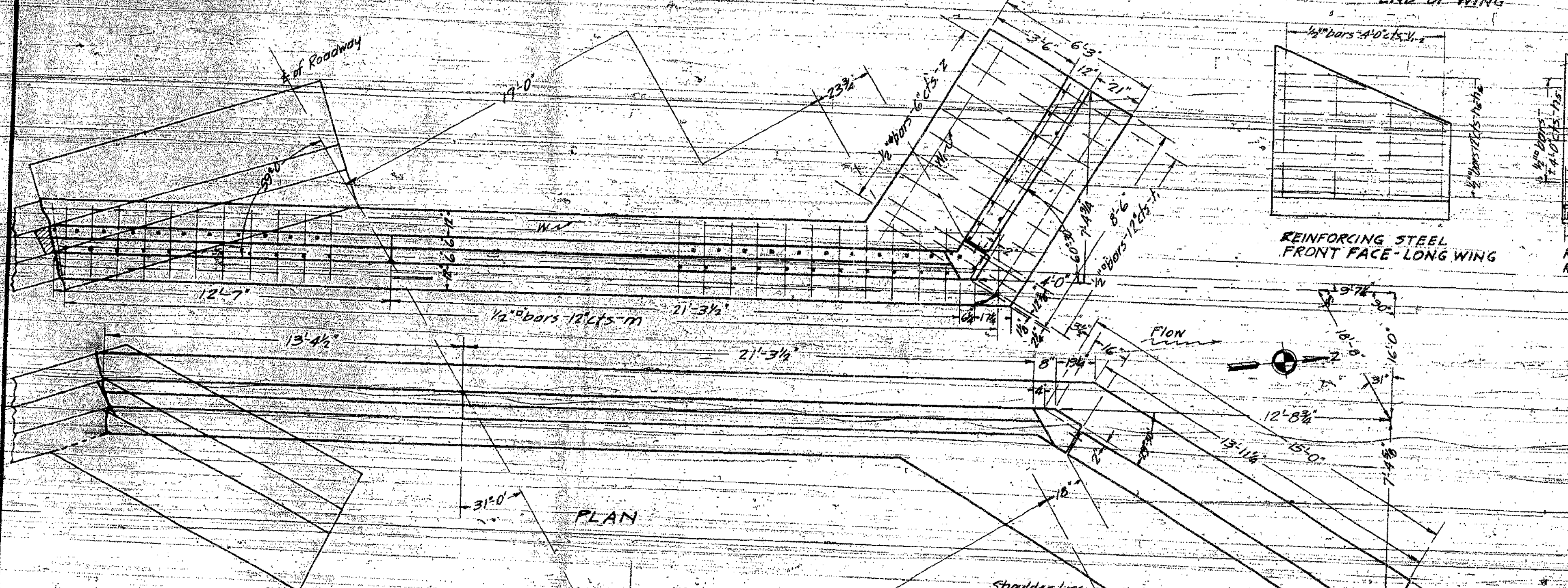
CONTRACT 64641

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

~~B.M. East end of South H.W. Sta 332+71 Elev 582.61~~
Existing structure R.C. Slab, span 18'-2½", roadway 22'-0" to be widened on North side.



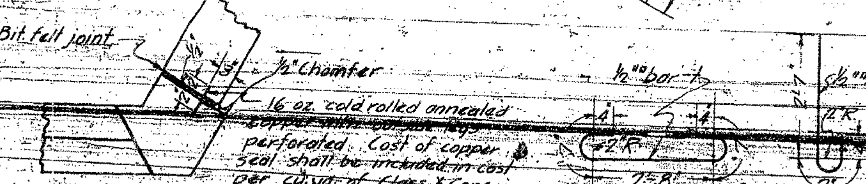


BILL OF MATERIAL

Bar	Size	No	Length
V	½"⌀	71	11'-0"
V_{1-3}	½"⌀	4	10'-0"
V_2	½"⌀	2	7'-6"
V_3	½"⌀	6	9'-0"
V_4	½"⌀	6	7'-6"
V_5	½"⌀	5	6'-0"
V_6	½"⌀	5	5'-0"
h	½"⌀	20	22'-6"
h_1	½"⌀	10	13'-0"
h_2	½"⌀	10	12'-3"
h_3	½"⌀	12	7'-0"
h_4	½"⌀	2	4'-0"
h_5	½"⌀	12	13'-0"
h_6	½"⌀	2	7'-0"
m	½"⌀	71	2'-6"
n	½"⌀	44	3'-6"
t	½"⌀	72	4'-3"
t_1	½"⌀	23	6'-0"
z	½"⌀	43	6'-0"
W	½"⌀	8	19'-3"
W_1	½"⌀	4	8'-6"
W_2	½"⌀	4	14'-0"
Reinforcing Steel-Lbs. 2370			
Class X Conc.-Cu.Yds. 51.0			
Rock Excavation-Cu.Yds. 27.8			

Class X Concrete shall be used throughout.
Reinforcing steel shall be placed and fastened according to Article 43.5 Std. Specifications.
~~Old reinforcing steel shall be bent into new~~ concrete where possible.
In joining the old structure with the new structure Article 42.12 of Std. Specifications shall be followed.
The North wing of old structure shall be removed.

STANDARD	COMPUTED M. G. Peter	EXAMINED	19
	CHECKED		BRIDGE ENGINEER
	DRAWN M. G. Peter	PASSED	
	CHECKED		ENGINEER OF DESIGN
SPECIAL	ASSEMBLED	APPROVED	
	CHECKED		



DETAIL OF EXPANSION JOINTS

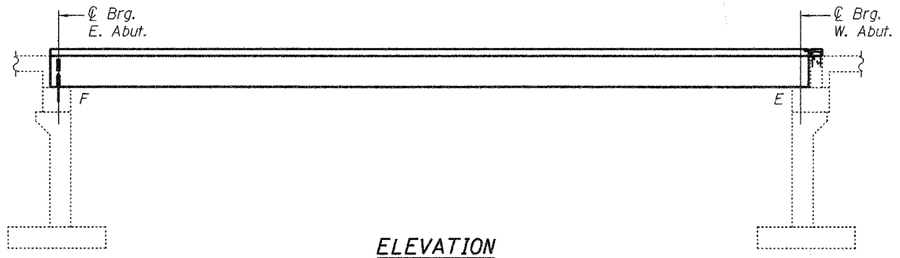
GUYER BRIDGE
S.A.RT. 9 SEC. 42-B.M.F.T.
ROCKISLAND CO.
STA. 332+72

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

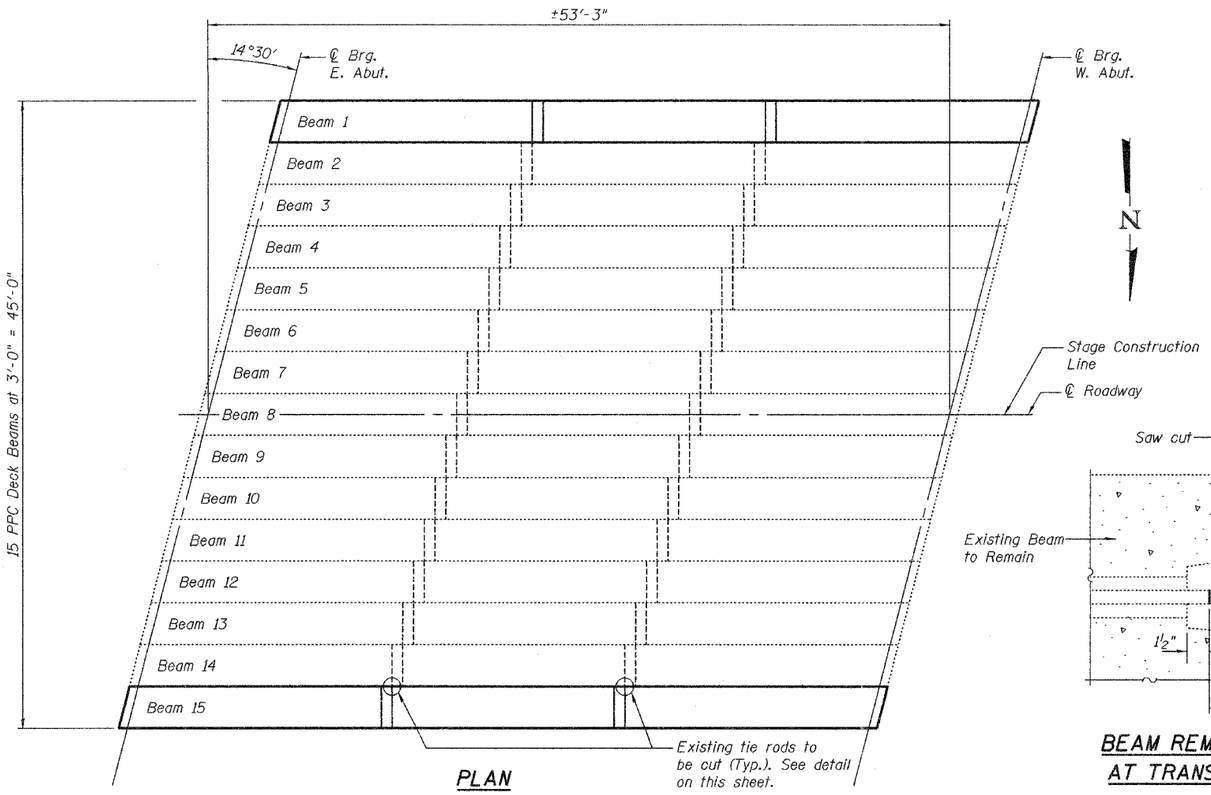
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Rock Island	90	30
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
5 SHEETS

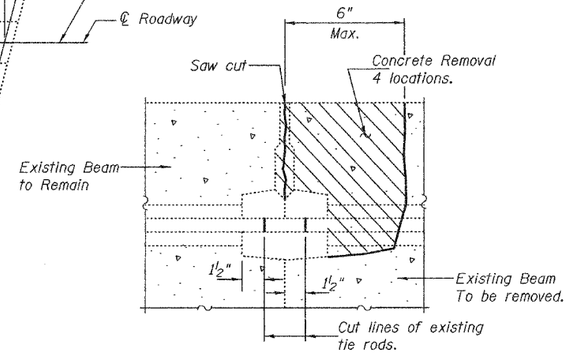
Contract Number: 64641



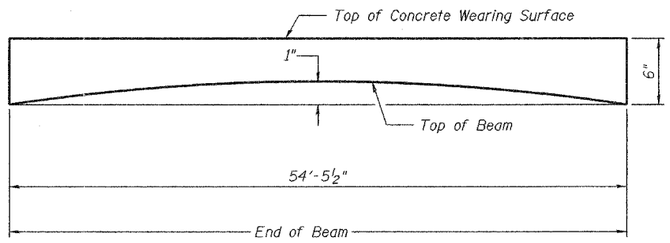
ELEVATION



PLAN



BEAM REMOVAL DETAIL AT TRANSVERSE TIES



ANTICIPATED INITIAL CAMBER DIAGRAM

GENERAL NOTES

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 bid for the work.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322, Grade 60.

All construction joints shall be bonded.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".

Temporary concrete barrier shall only be anchored into the overlay and not into the P.P.C. Deck Beams.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of each fascia beam. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
	Removal of Existing PPC Deck Beams	Sq. Ft.	327
	Bituminous Concrete Surface Removal Complete	Sq. Yd.	236
	Asbestos Bearing Pad Removal	Each	2
	PPC Deck Beams (27" Depth)	Sq. Ft.	327
	Reinforcement Bars, Epoxy Coated	Pound	3,530
	Steel Bridge Rail, Type SM	Foot	109
	Concrete Wearing Surface, 5"	Sq. Yd.	262.0
	Bridge Deck Grooving	Sq. Yd.	256.4
	Silicone Joint Sealer, 1¾"	Foot	47
	Polymer Concrete	Cu. Ft.	3.4
	Bar Splicers	Each	57
*	Keyway Repair	Foot	654
	Bearing Pad Adjustment	Each	26
	Dowel Repair	Each	26
	Protective Coat	Sq. Yd.	266

* Quantity shown is for the full length of all existing keyways. Actual locations to be repaired will be determined by the Engineer after removal of the existing wearing surface and waterproofing membrane.

DESIGN STRESSES
PRESTRESS UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½" ϕ low lax strands)
f'si = 201,960 psi (½" ϕ low lax strands)

DESIGNED	Victor H. Velez
CHECKED	Mike J. Tvello V.H.V.
DRAWN	
CHECKED	V.H.V.

September 23, 2005
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
RALPH E. ANDERSON
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

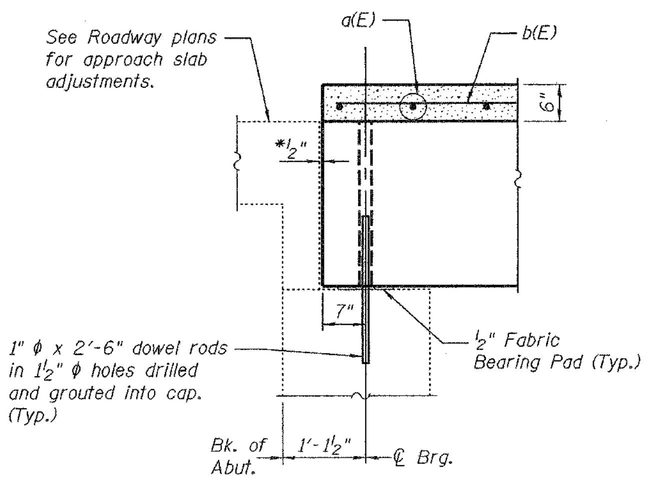
Expires: November 30, 2006

PLAN AND ELEVATION
IL 92
ROCK ISLAND COUNTY
SN 081-0076

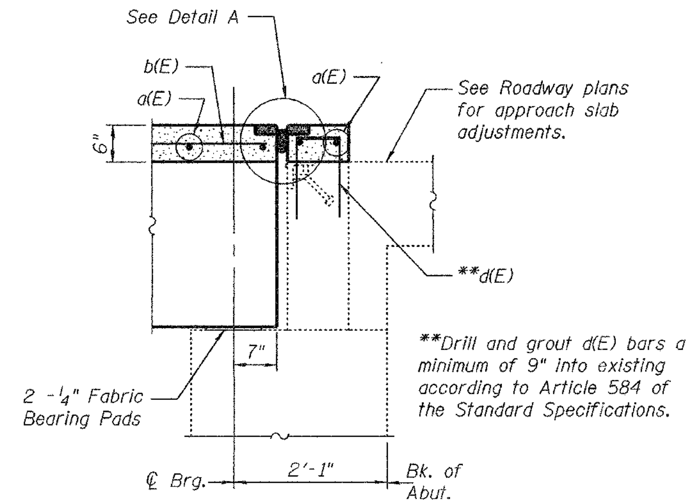
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note:
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed 1'-3" minimum into existing caps. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

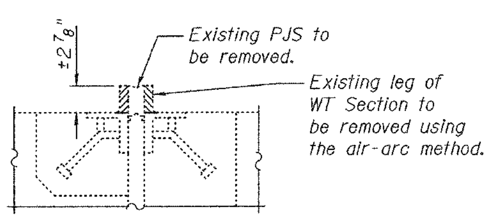
*Joint shall be filled with non-shrink grout. This dimension may vary plus or minus to accommodate tolerance in beam lengths.



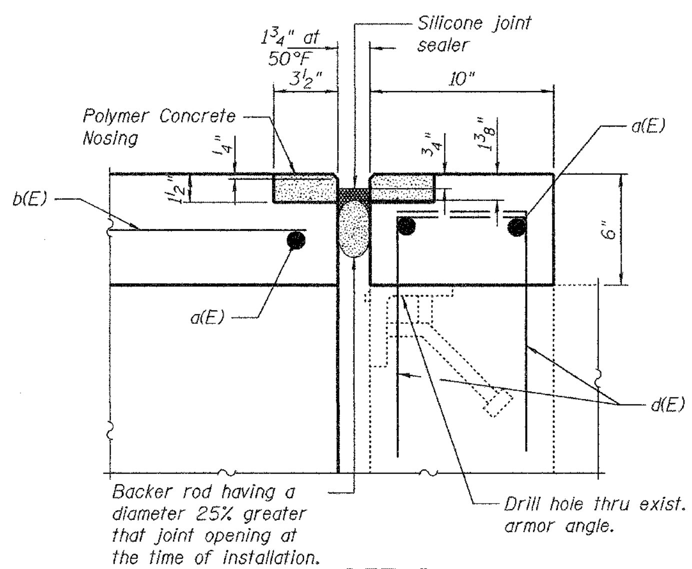
SECTION AT EAST ABUTMENT
(Dimensions at Rt. L's)



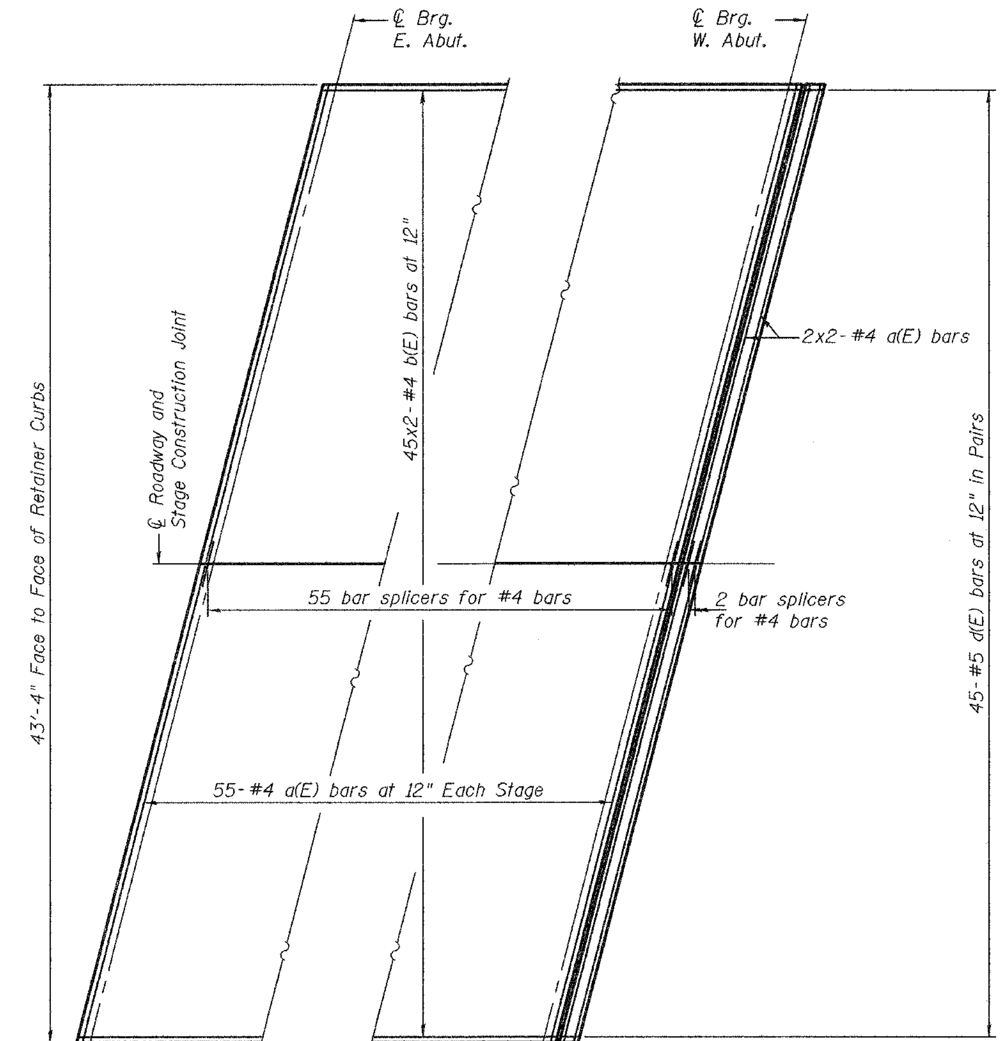
SECTION AT WEST ABUTMENT
(Dimensions at Rt. L's)



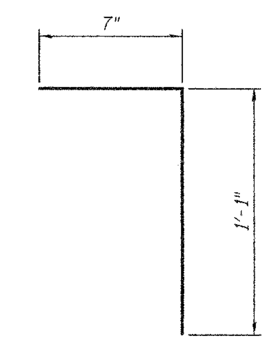
TYPICAL SECTION AT EXISTING JOINT AT WEST ABUTMENT
(Dimensions at Rt. L's)



DETAIL A
(Dimensions at Rt. L's)



CONCRETE OVERLAY PARTIAL PLAN AND HATCH BLOCK EXTENSION PLAN



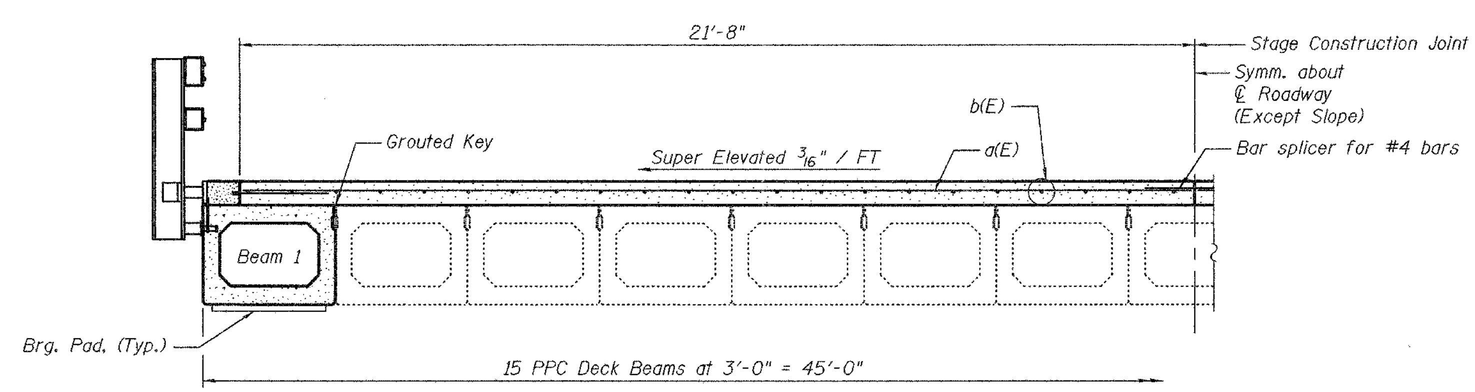
BAR d(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	114	#4	22'-3"	——
b(E)	90	#4	27'-11"	——
d(E)	90	#5	1'-8"	└──
Reinforcement Bars, Epoxy Coated		Lbs.	3,530	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

MIN BAR LAP
#4 = 1'-4"



HALF CROSS SECTION
(Looking West)

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

September 23, 2005
EXAMINED John A. Morris — ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson — ENGINEER OF BRIDGES AND STRUCTURES

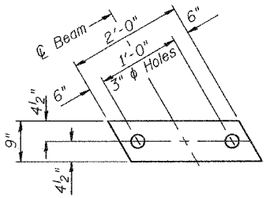
OVERLAY AND JOINT DETAILS
IL 92
ROCK ISLAND COUNTY
SN 081-0076

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

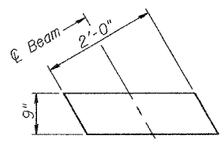
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Rock Island	90	52
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
5 SHEETS

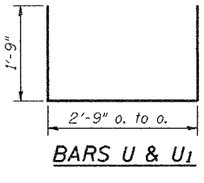
Contract Number: 64641



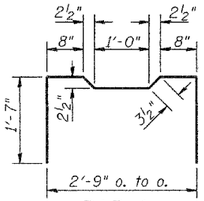
FABRIC BEARING PAD
(Interior)
FIXED



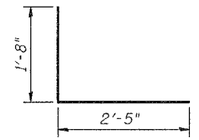
FABRIC BEARING PAD
(Interior)
EXPANSION



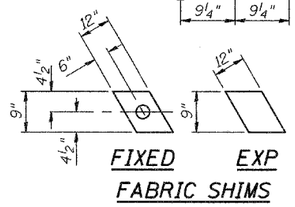
BARS U & U1



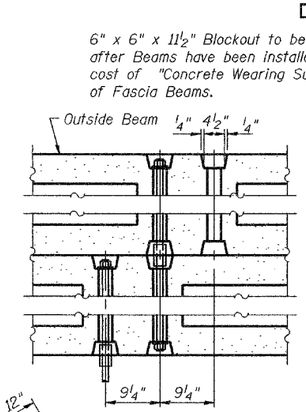
BAR A1

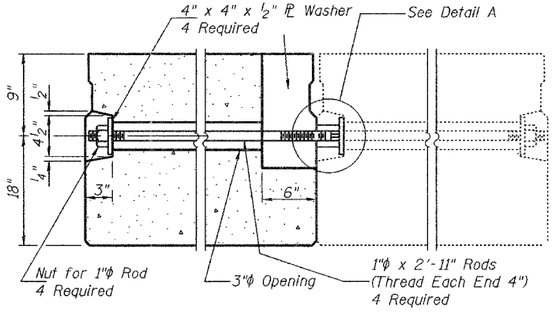


BAR D

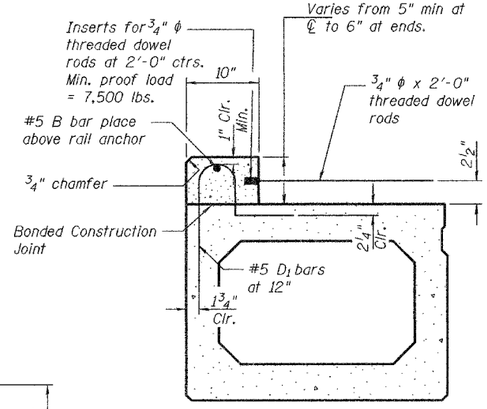


FIXED EXP
FABRIC SHIMS





TYPICAL TRANSVERSE TIE ASSEMBLY



SECTION AT FASCIA BEAM
(Showing Curb and Curb Reinforcement)

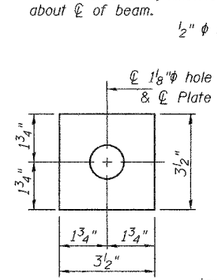
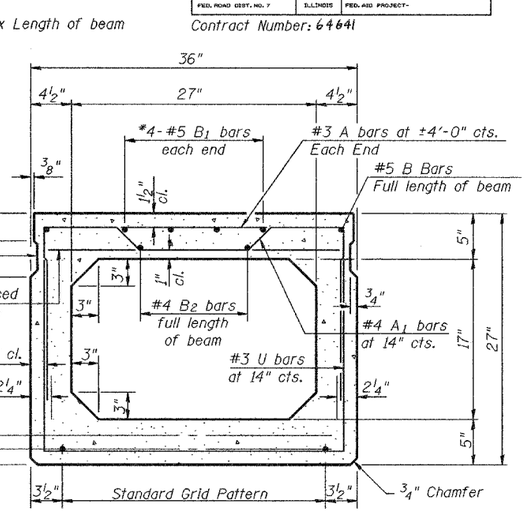


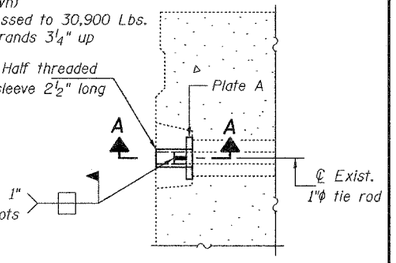
PLATE A
(4 Required)



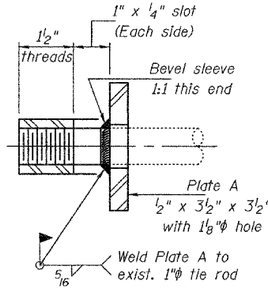
*0.2 x Length of beam

Note:
Place strands symmetrically about ℄ of beam.

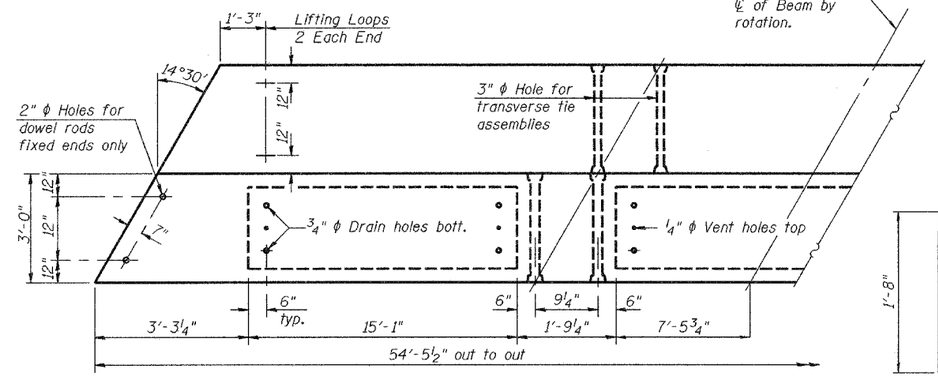
TYPICAL SECTION
(Curb not shown)
½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
9-Strands 1¾" up, 2-Strands 3¼" up



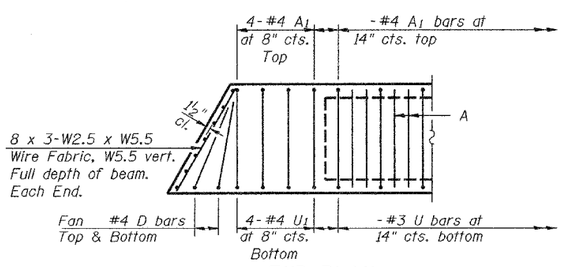
DETAIL A



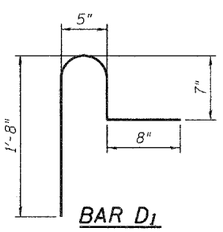
SECTION A-A
(4 Required)



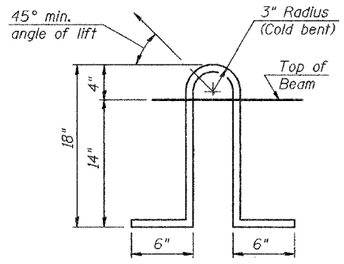
PLAN



END PLAN



BAR D1



LIFTING LOOP DETAIL

See typical section for strand pattern, dimensions and bar call outs.
Bridge rail inserts shall be cast in precast beams and curbs. Curbs shall be cast by the precast prestressed concrete supplier after strands have been released and prior to shipping the beam. The concrete in the curb shall be the same as specified for the deck beams.
The curb inserts and threaded dowel rods may be either epoxy coated or galvanized and the cost shall be included with PPC Deck Beams (27" Depth).

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 2-½" ϕ-270 ksi strands, as shown.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions shown shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
Required Release Strength, f'ci, shall be 4000 p.s.i.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P.P.C. Deck Beams (27" Depth)			Sq. Ft.	327

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

September 23, 2005
EXAMINED John A. Morris — ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson — ENGINEER OF BRIDGES AND STRUCTURES

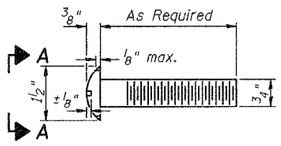
PD-5-L 10-22-04

BEAM DETAILS
IL 92
ROCK ISLAND COUNTY
SN 081-0076

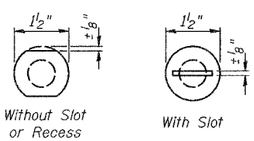
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Rock Island	98	53
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

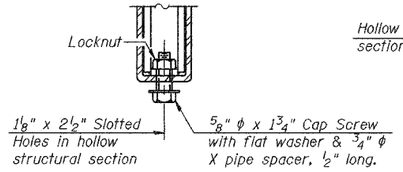
SHEET NO. 4
5 SHEETS
Contract Number: 64641



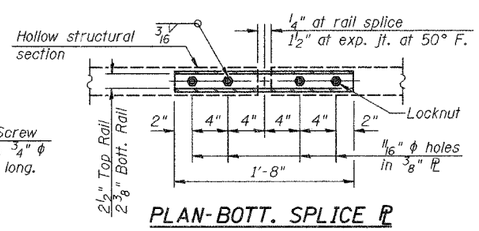
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



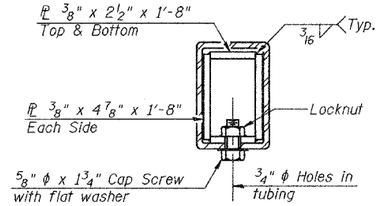
VIEW A-A



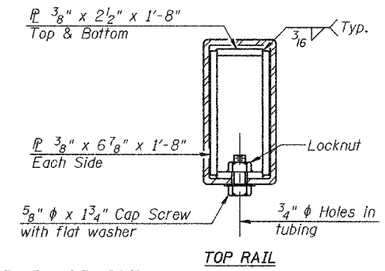
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL



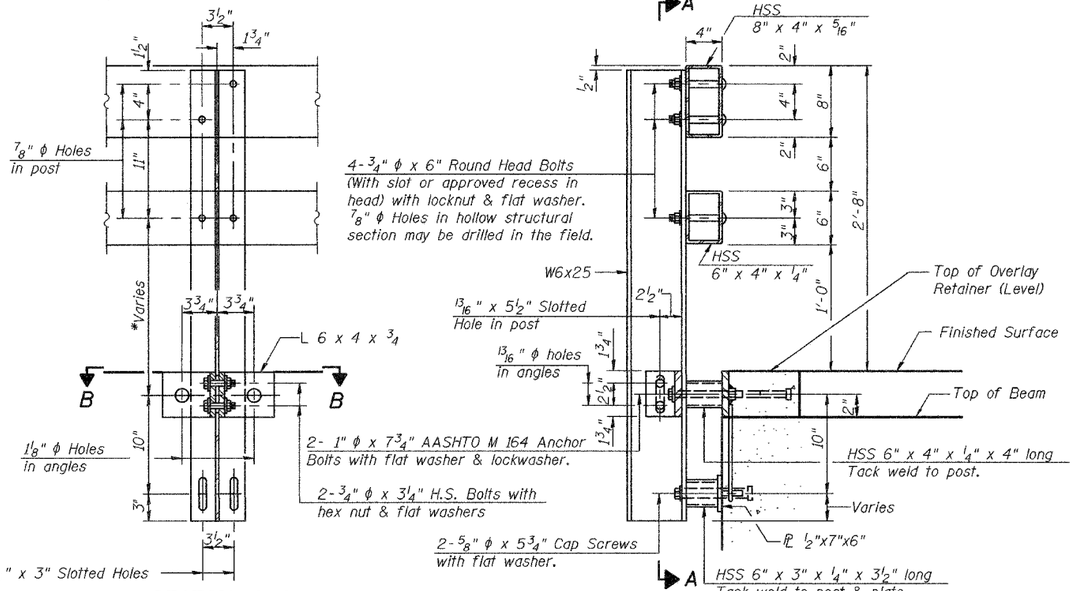
BOTTOM RAIL



TOP RAIL

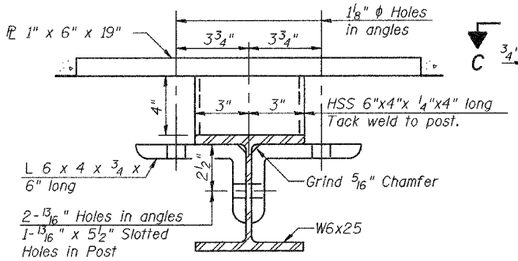
SECTIONS AT RAIL SPLICE

*1'-6" min at midspan. Dimension is bassed on a 5" wearing surface thickness at midspan.

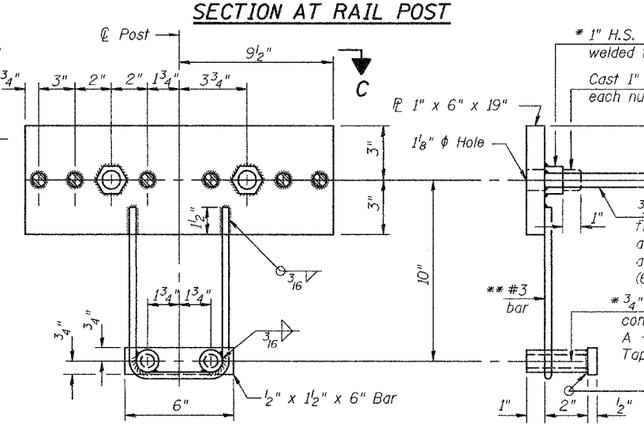


SECTION A-A

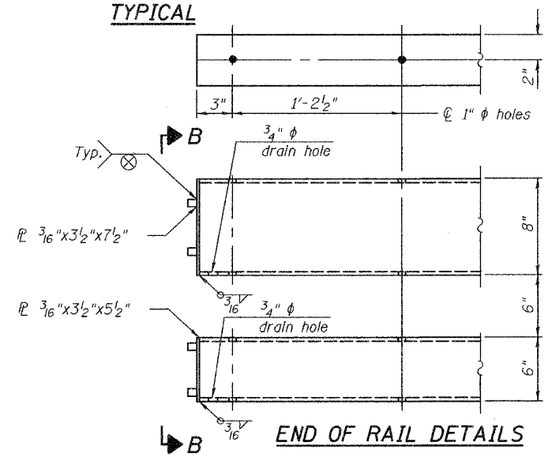
SECTION AT RAIL POST



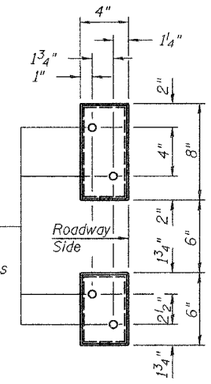
SECTION B-B



ANCHOR DEVICE

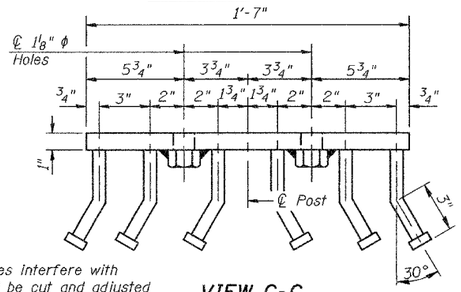


END OF RAIL DETAILS



℄ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032

VIEW B-B



VIEW C-C

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

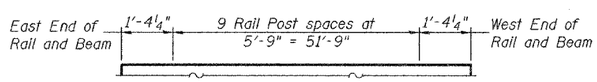
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.

The 1/2" x 7" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" ϕ high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.



RAIL POST SPACING

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	109

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

September 23, 2005
EXAMINED John A. Morris, ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES

(6'-3" Max Post Spacing)

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

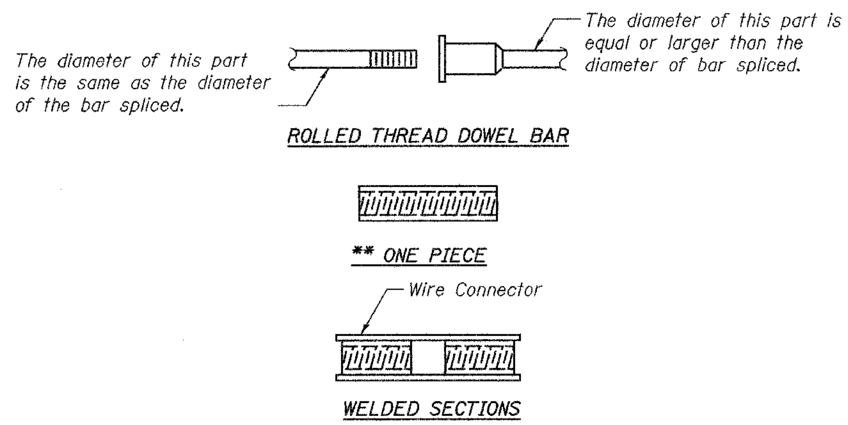
RAIL DETAILS
IL 92
ROCK ISLAND COUNTY
SN 081-0076

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Rock Island	90	54
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

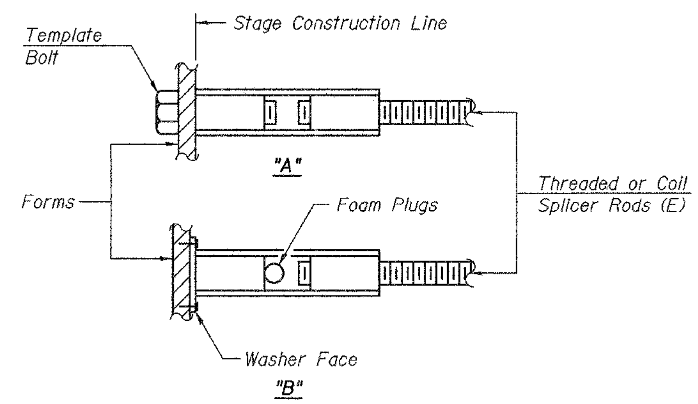
SHEET NO. 5
5 SHEETS

Contract Number: 64641



BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

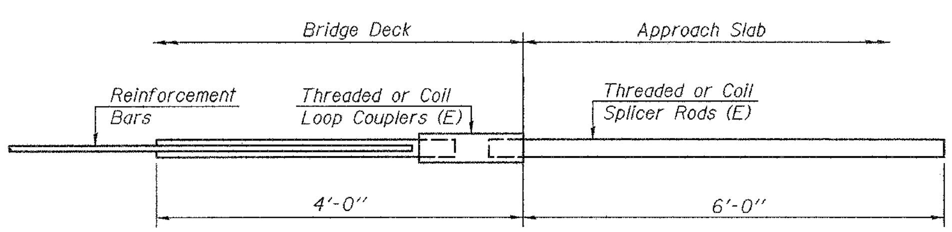
① Minimum Capacity (Tension in kips) $= 1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) $= 1.25 \times fs_{allow} \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

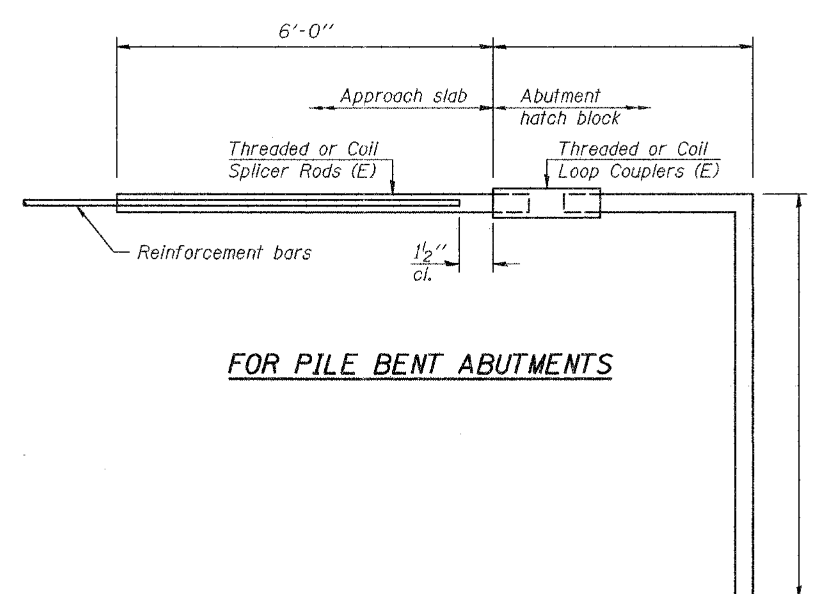
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



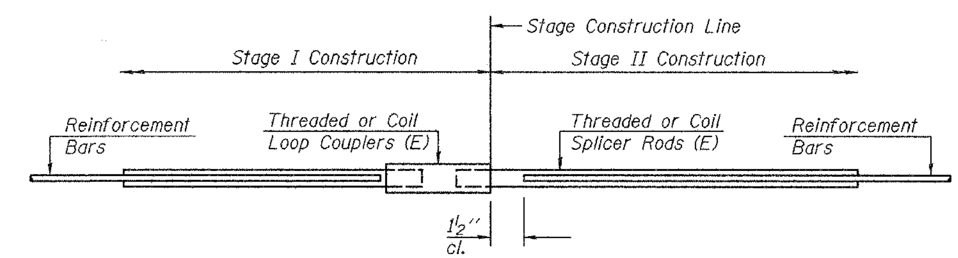
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#4	57	Deck

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

September 23, 2005
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

BAR SPLICER DETAILS
IL 92
ROCK ISLAND COUNTY
SN 081-0076

STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	55
STA. 404+30 & 326+50 TO STA. 411+46 +& 336+10				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 42MFT-BR, (9BR-2)M & 42MFT-T

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF A SINGLE SPAN CONCRETE TEE BEAM BRIDGE WITH A 3-SIDED PRECAST CONCRETE STRUCTURE, THE REMOVAL AND REPLACEMENT OF A SINGLE SPAN SLAB BRIDGE WITH A CAST-IN-PLACE BOX CULVERT AND THE BRIDGE DECK REMOVAL AND REPLACEMENT. WORK ALSO INCLUDES EARTHWORK, PAVEMENT REMOVAL, FULL-DEPTH BITUMINOUS PAVEMENT, BITUMINOUS BASE & SURFACE COURSES, PAVEMENT MARKINGS, LANDSCAPING & OTHER MISCELANEOUS TASKS.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.74 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 4.28 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.30 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

THREE UNNAMED DRAINAGE DITCHES UNDER FAPS 599 (IL 92): 1. AT THE EAST EDGE OF THE VILLAGE LIMITS OF ANDALUSIA. 2. APPROXIMATELY 1.5 MILES EAST OF ANDALUSIA; AND FANCY CREEK APPROXIMATELY 0.5 MILES EAST OF ANDALUSIA.

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

REVISED 5-12-04 2.1

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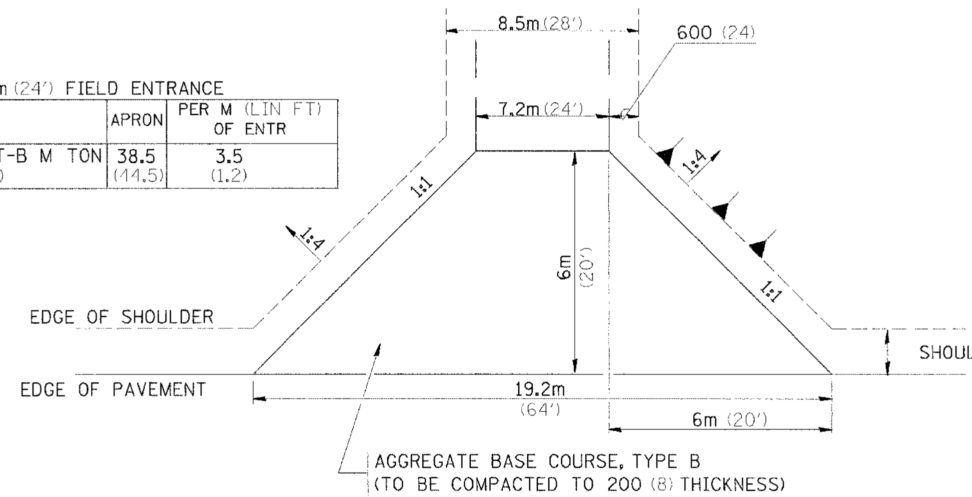
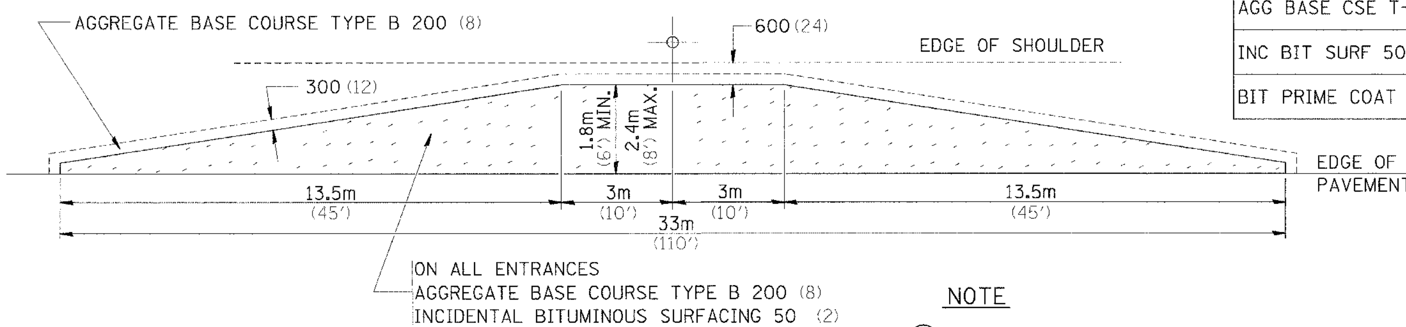
BITUMINOUS APPROACHES & MAILBOX RETURNS

7.2m (24') FIELD ENTRANCE

	APRON	PER M (LIN FT) OF ENTR
AGG BASE CSE T-B M TON (TON)	38.5 (44.5)	3.5 (1.2)



FIELD ENTRANCE



MAILBOX TURNOUT

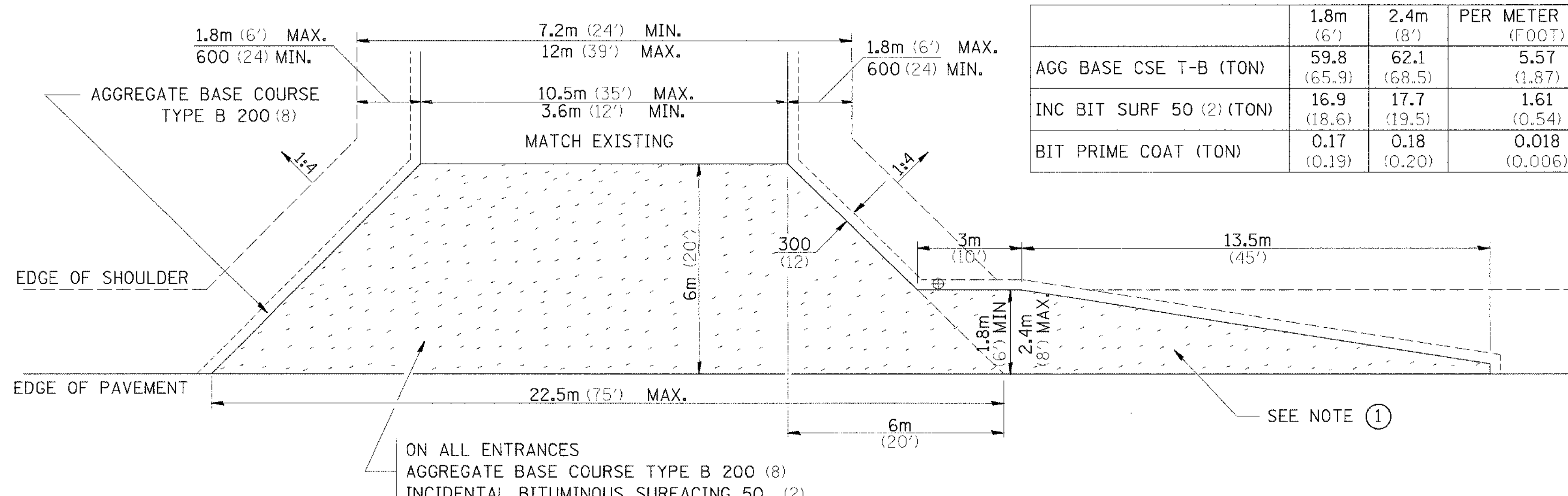
	1.8m (6')	2.4m (8')
AGG BASE CSE T-B (TON)	22.2 (24.5)	28.2 (31.1)
INC BIT SURF 50 (2) (TON)	5.3 (5.8)	7.1 (7.8)
BIT PRIME COAT (TON)	0.05 (0.06)	0.07 (0.08)

NOTE

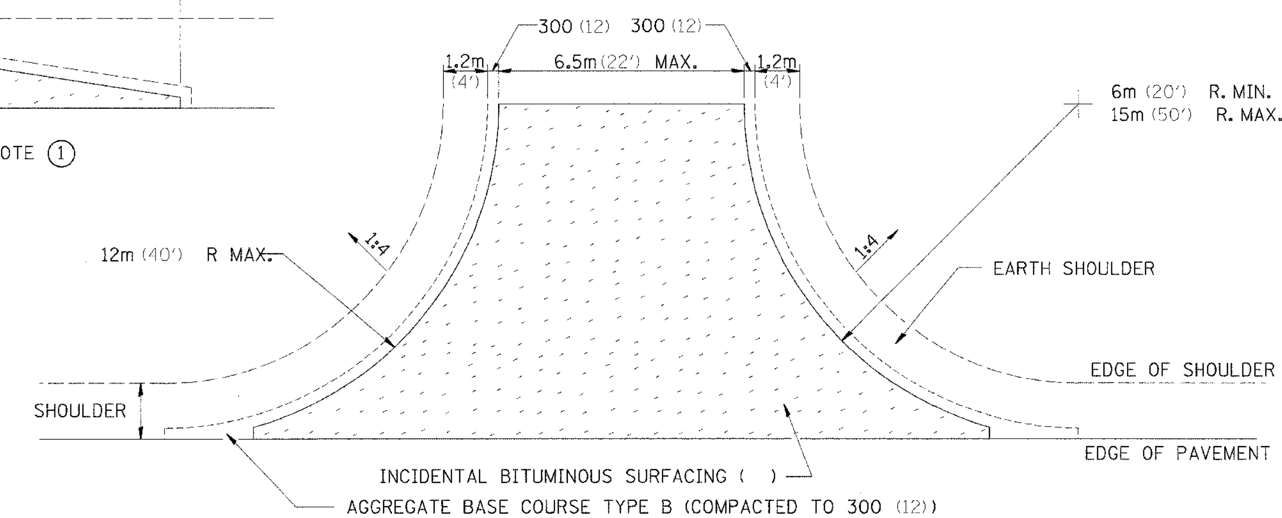
1. TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
2. ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
3. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
4. QUANTITIES ARE CALCULATED WITH 1' BITUMINOUS SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
5. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCIDENTAL TO THE AGGREGATE BASE COURSE.
6. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

10.5m (35') COMMERICAL ENTRANCE

	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	59.8 (65.9)	62.1 (68.5)	5.57 (1.87)
INC BIT SURF 50 (2) (TON)	16.9 (18.6)	17.7 (19.5)	1.61 (0.54)
BIT PRIME COAT (TON)	0.17 (0.19)	0.18 (0.20)	0.018 (0.006)



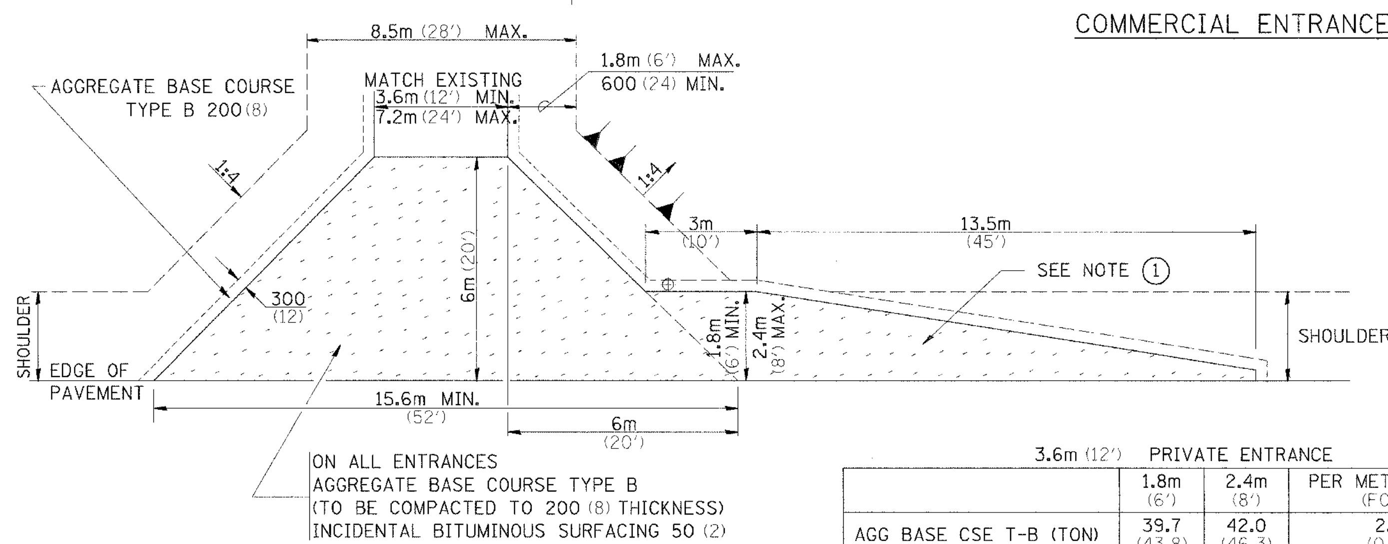
COMMERCIAL ENTRANCE



SIDE ROAD RETURN

	6m RADIUS (20')			9m RADIUS (30')			12m RADIUS (40')		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	40.9 (45.1)	43.7 (48.2)	46.4 (51.2)	70.3 (77.5)	74.4 (82.0)	78.6 (86.6)	105.5 (116.3)	111.0 (122.4)	116.6 (128.5)
INC BIT SURF AT 25 (1) (TON)	3 (3.3)	3.3 (3.6)	3.4 (3.8)	5.3 (5.8)	5.5 (6.1)	5.9 (6.5)	8.0 (8.8)	8.4 (9.3)	9.0 (9.9)
BIT PRIME COAT (TON)	0.07 (0.08)	0.08 (0.09)	0.10 (0.10)	0.14 (0.15)	0.15 (0.16)	0.15 (0.17)	0.20 (0.22)	0.22 (0.24)	0.23 (0.25)

NOTE: USE 50 (2) INC. BIT. SURF. ON EXISTING RETURNS

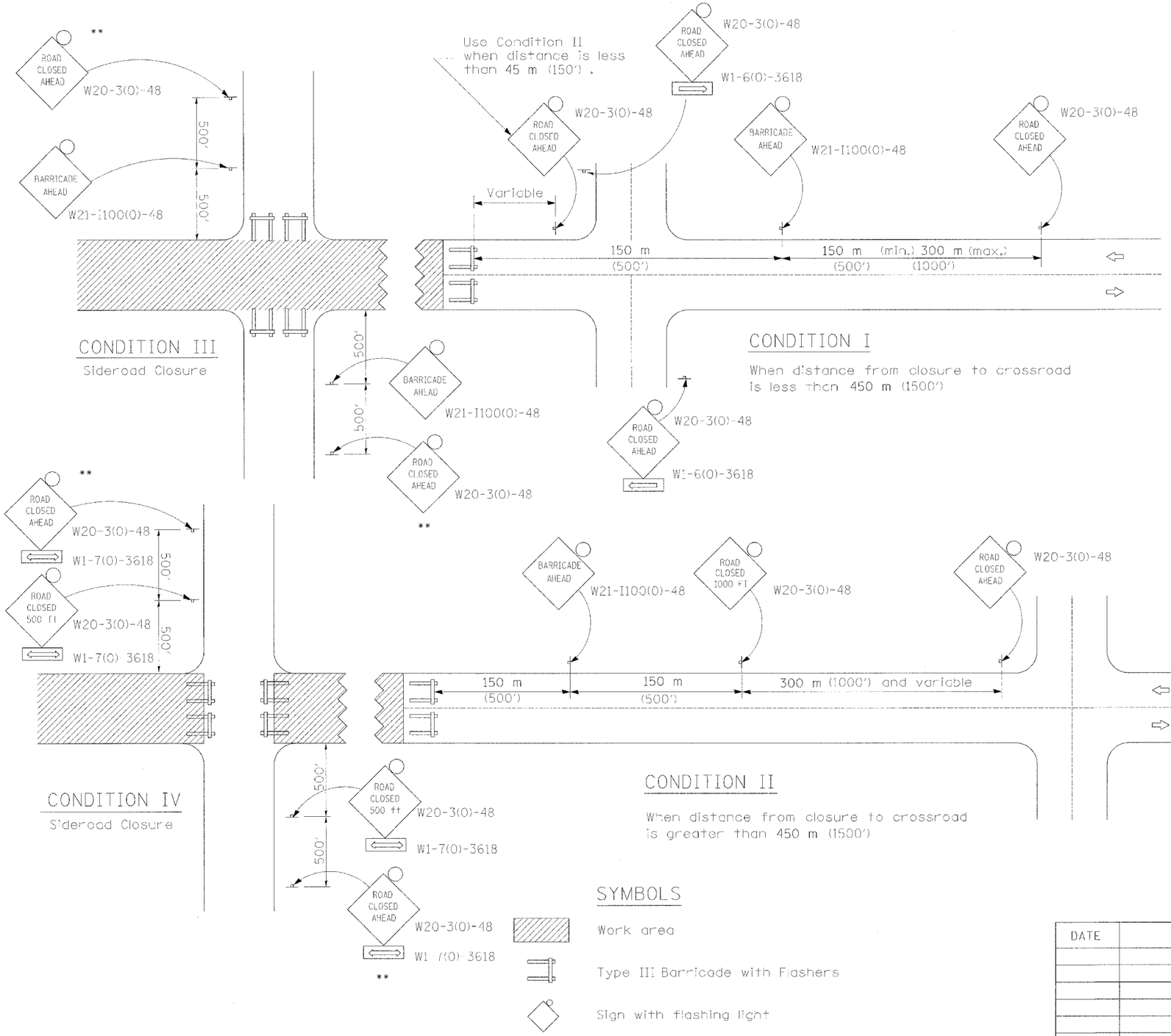


PRIVATE ENTRANCE

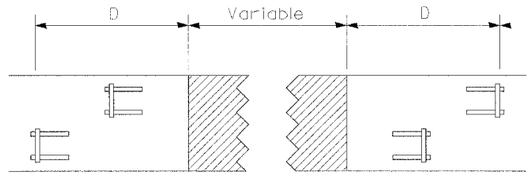
3.6m (12') PRIVATE ENTRANCE

	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	39.7 (43.8)	42.0 (46.3)	2.11 (0.71)
INC BIT SURF 50 (2) (TON)	10.7 (11.8)	11.5 (12.7)	0.57 (0.19)
BIT PRIME COAT (TON)	0.11 (0.12)	0.18 (0.13)	0.006 (0.002)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	472MFT-D2 & 472MFT-T	Rock Island	90	57
STA. 404+30 & 326+50	TO STA. 411+46 & 336+10			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

GENERAL NOTES

** Where local access is to be maintained, barricades are to be set up as shown above in Road Closed to thru traffic.

Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

Longitudinal dimensions may be adjusted to fit field conditions.

When the distance between the barricade and the intersection is between 450 m (1500') and 600 m (2000'), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 600 m (2000'), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.

All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE

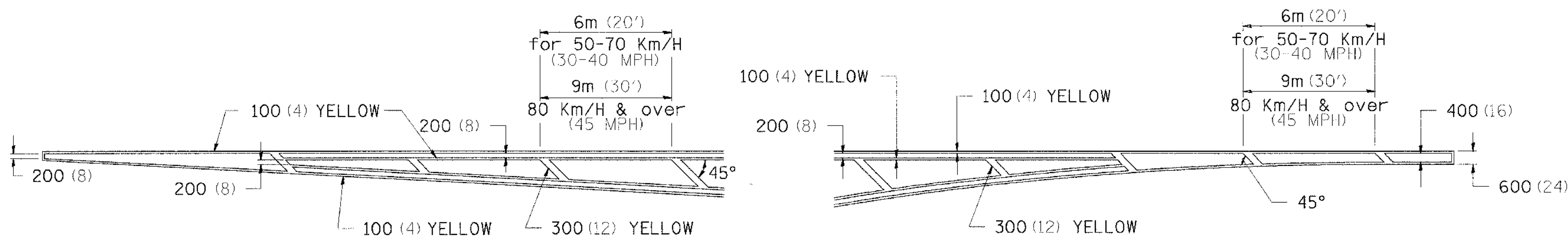
TRAFFIC CONTROL FOR ROAD CLOSURE

REVISED 1/28/03 **40.1**

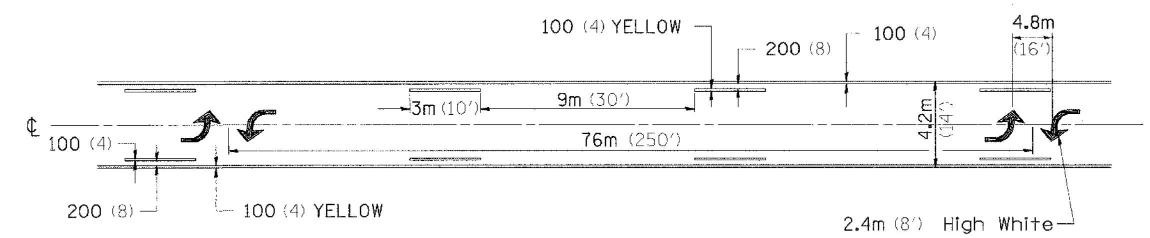
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	58
STA. 404+30 & 326+50	TO STA. 411+46 +& 336+10			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

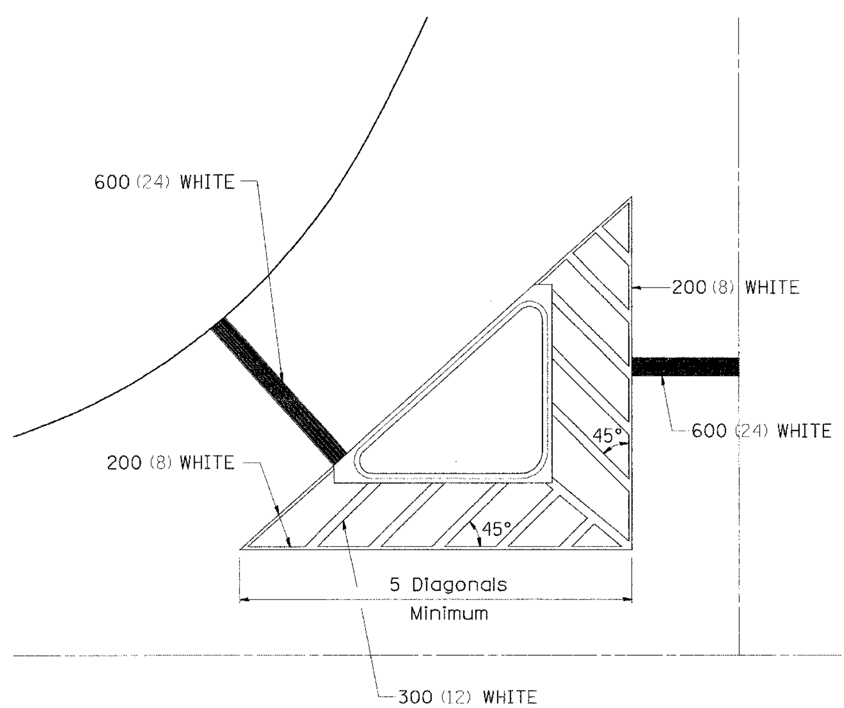
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



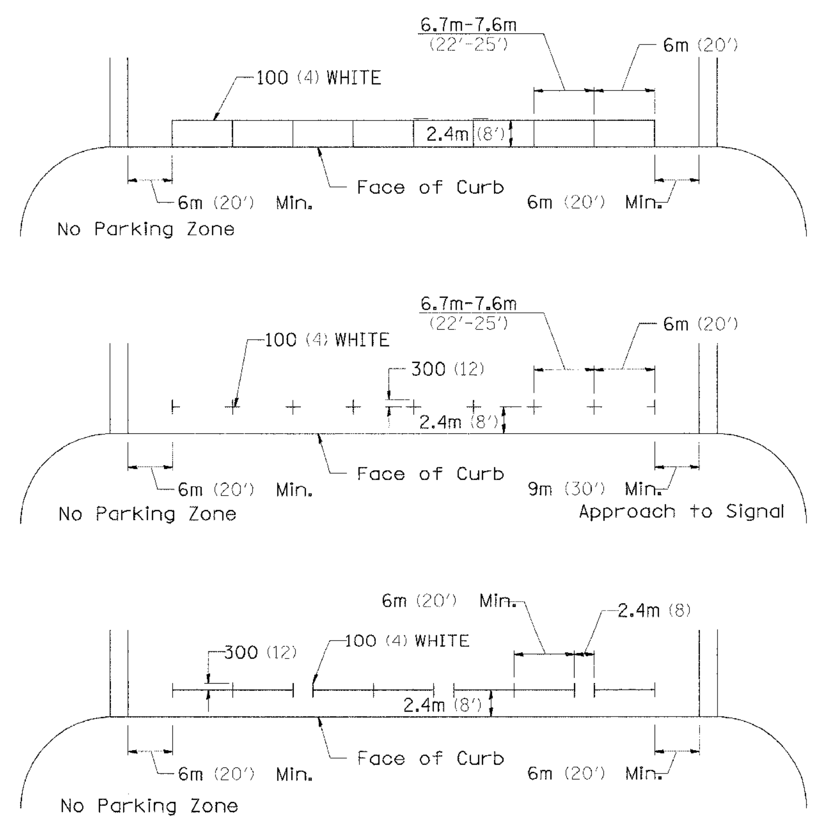
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



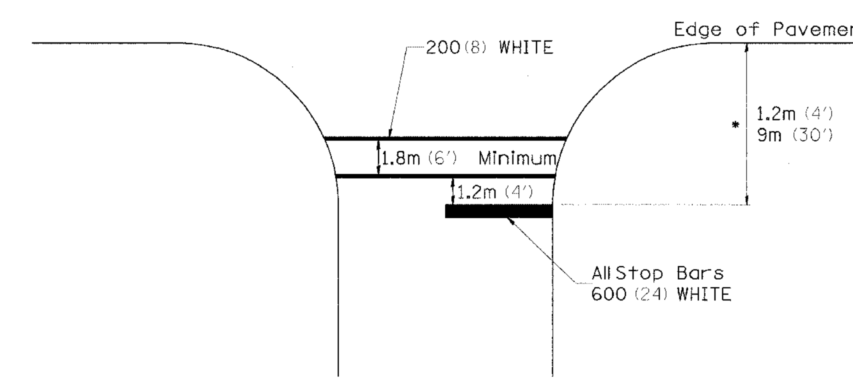
TYPICAL PARKING SPACING



** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

CHECKED BY:

DRAWN BY:

DESIGNED BY:

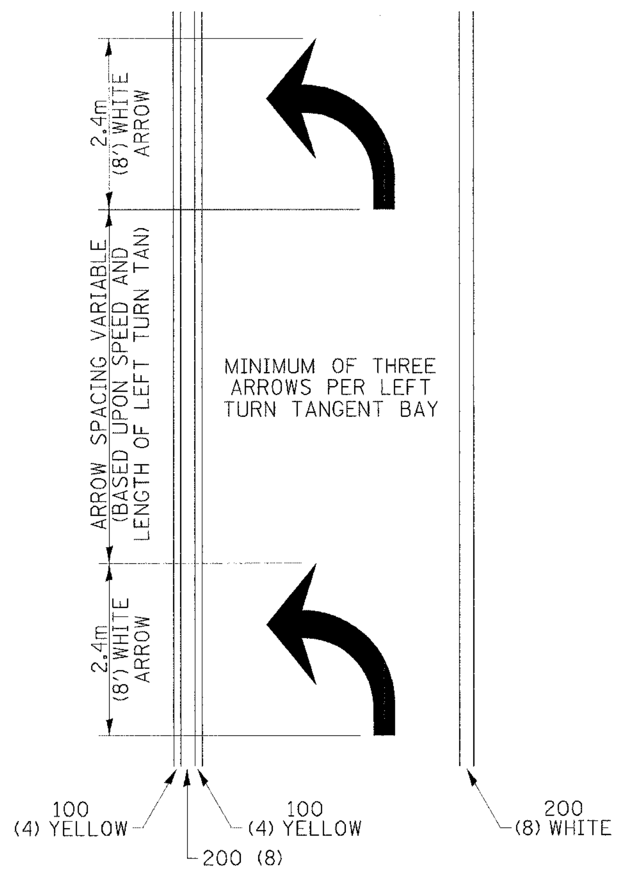
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	59

STA. 404+30 & 326+50 TO STA. 411+46 & 336+10

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

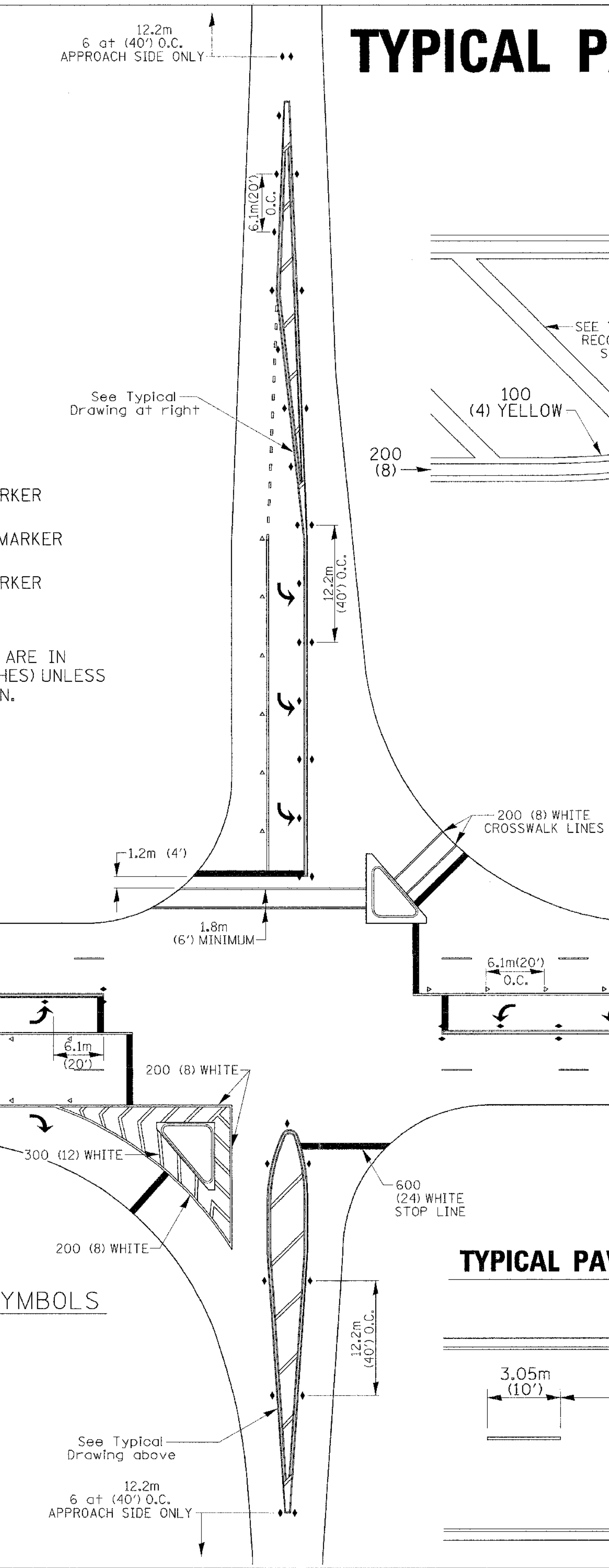


◀ ONE-WAY AMBER MARKER

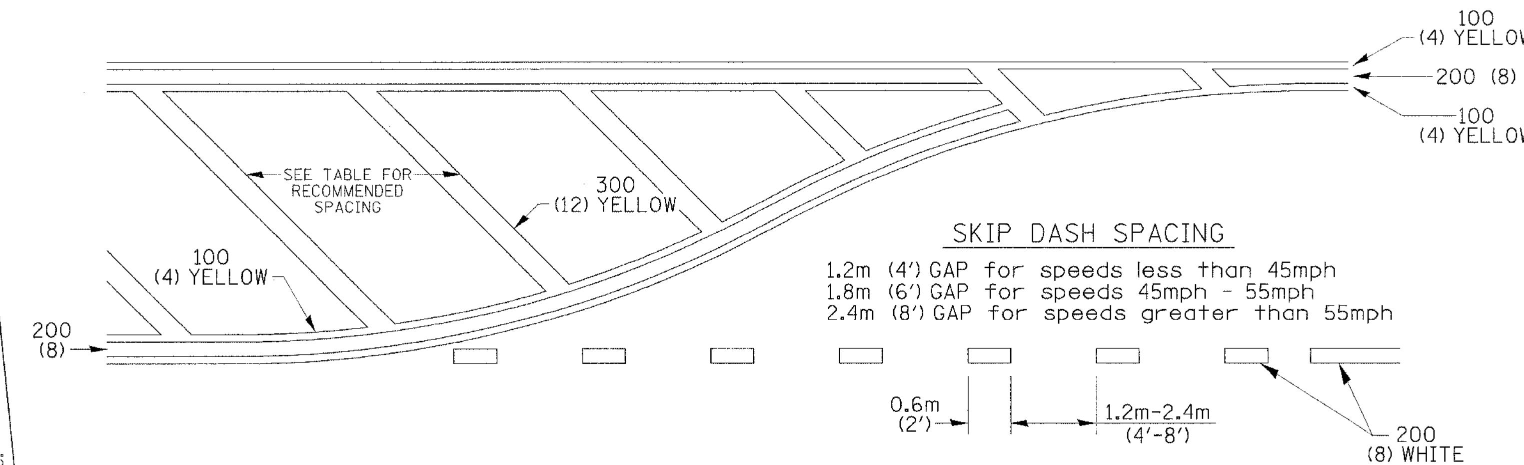
◁ ONE-WAY CRYSTAL MARKER

◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETER (INCHES) UNLESS OTHERWISE SHOWN.



TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



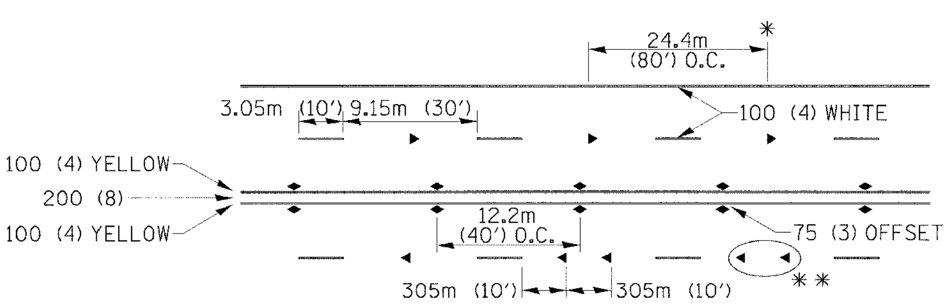
SKIP DASH SPACING

1.2m (4') GAP for speeds less than 45mph
1.8m (6') GAP for speeds 45mph - 55mph
2.4m (8') GAP for speeds greater than 55mph

RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H(30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H(30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H(45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonallines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallelto the pavement center line.



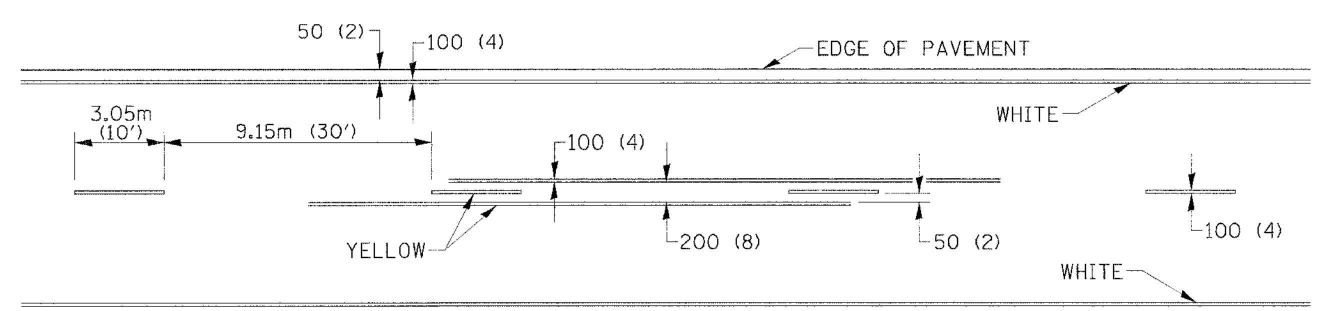
SYMBOLS

* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



CHECKED BY: ____ DRAWN BY: ____ DESIGNED BY: ____

Thu Feb 12 11:03:29 2004

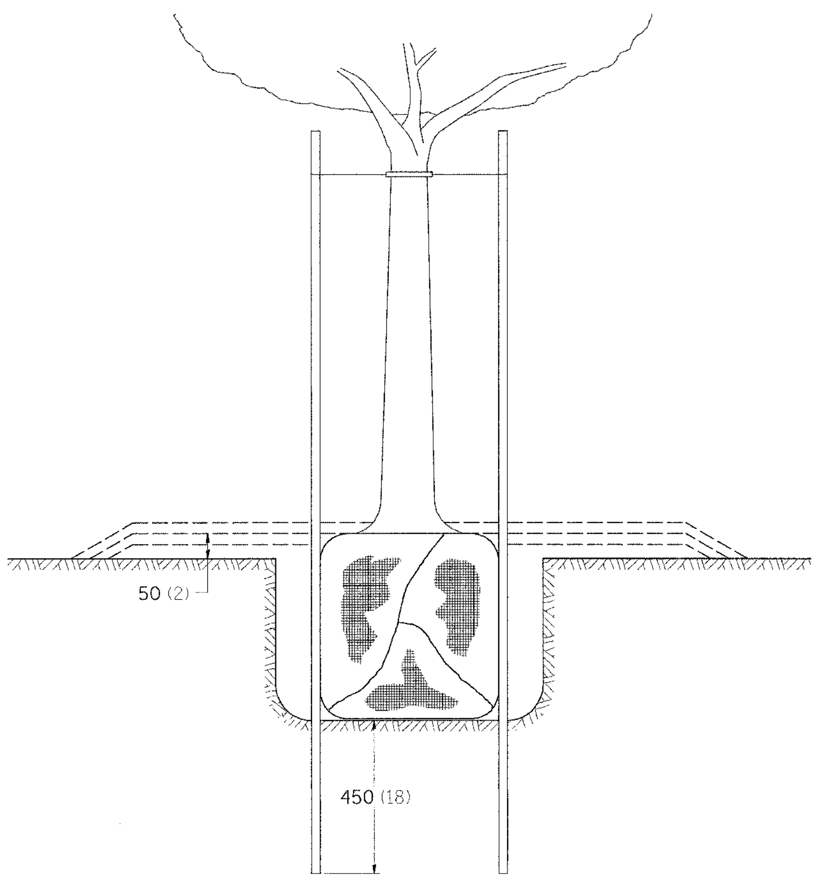
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	60

STA. 404+30 & 326+50 TO STA. 411+46 +& 336+10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

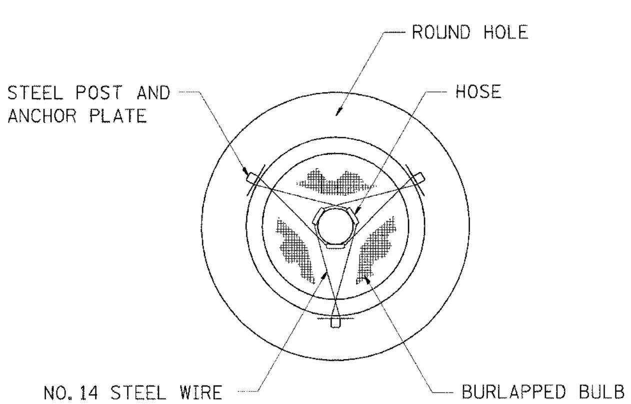
DETAILS OF PLANTING AND BRACING TREES

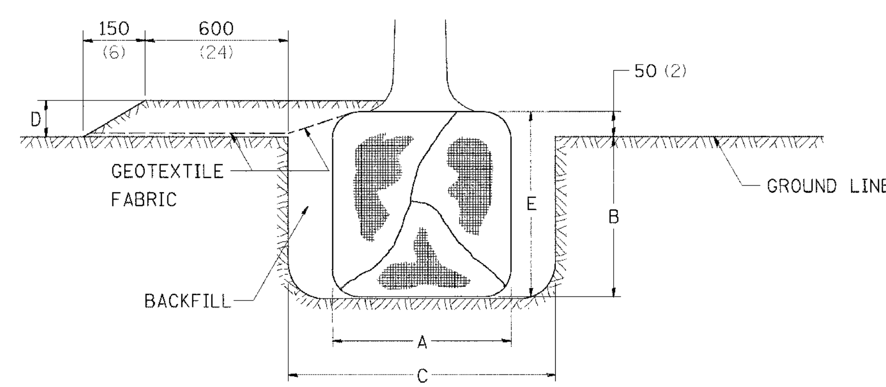
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m^3 (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

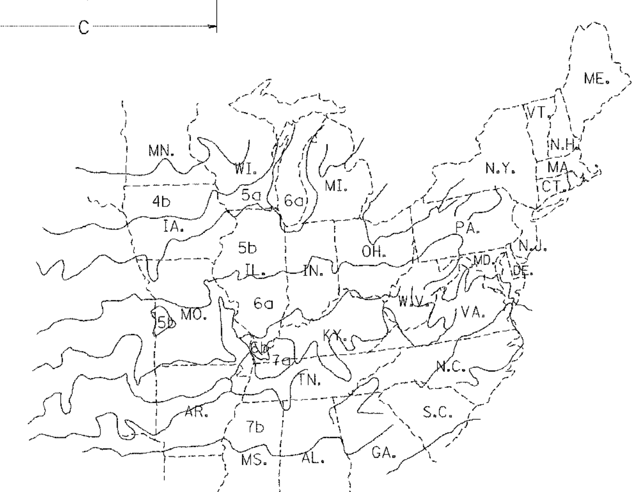
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2½)BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2½-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3½) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3½-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4½) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4½-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5½) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES SMALLER THAN 115 (4½) IN DIAMETER

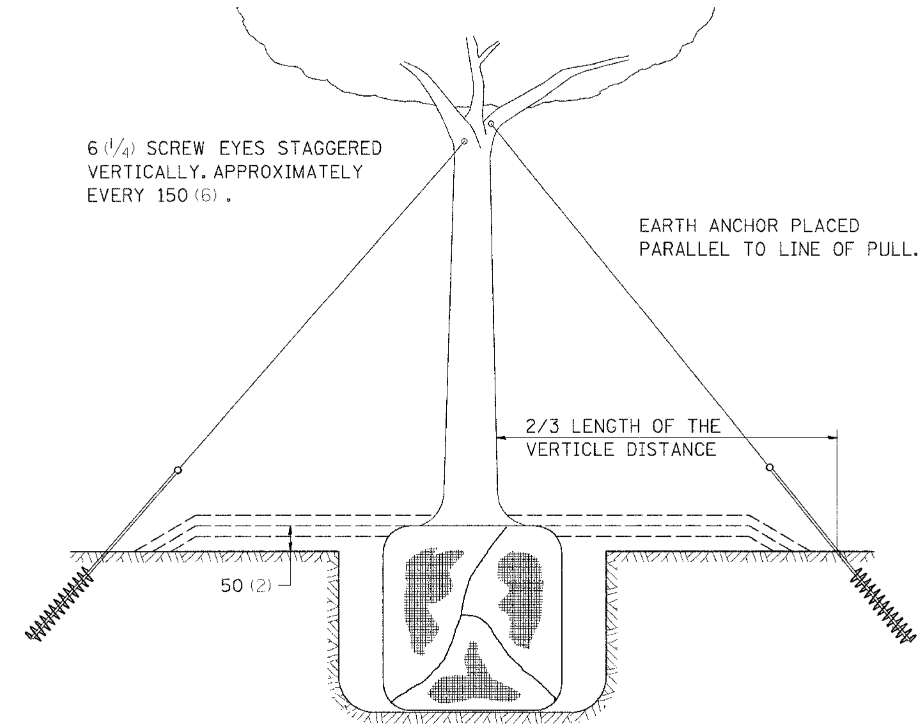




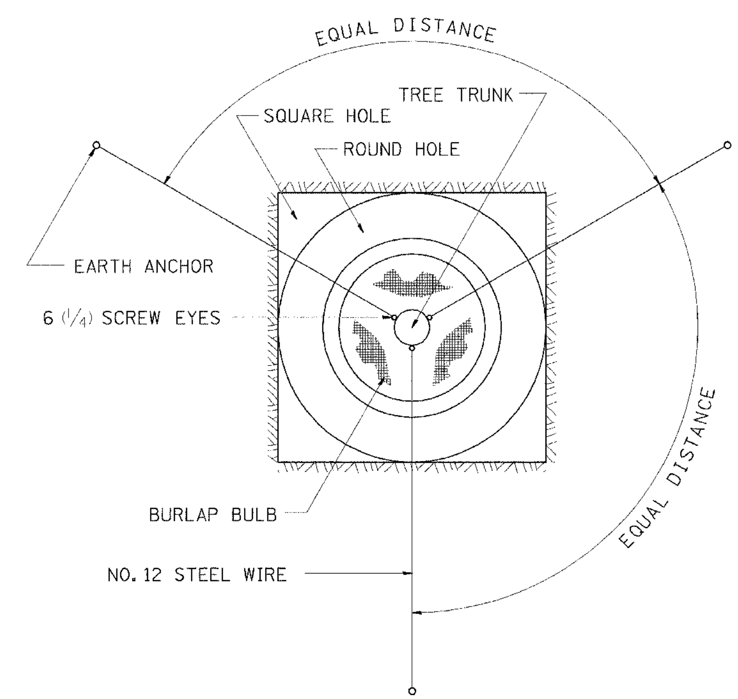


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4½) IN DIAMETER



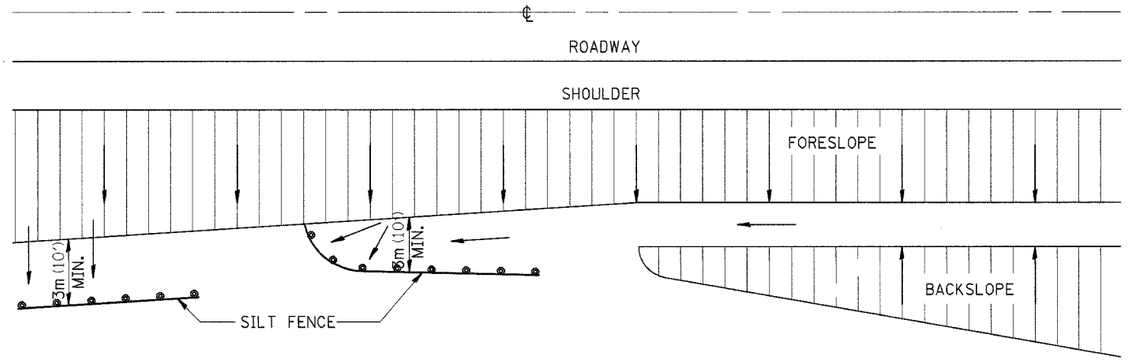
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

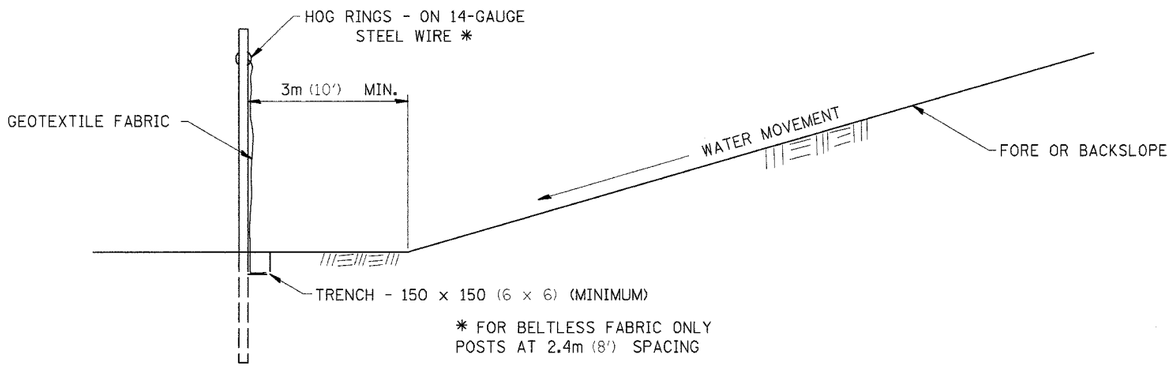
CHECKED BY:
DRAWN BY:
DESIGNED BY:

90 61

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	61
STA. 404+30 & 326+50 TO STA. 411+46 & 336+10				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE





DETAILS OF SILT FENCE

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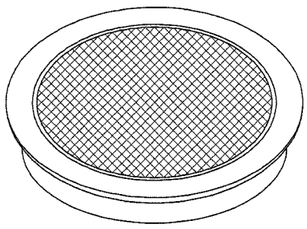
REVISED 10-22-01

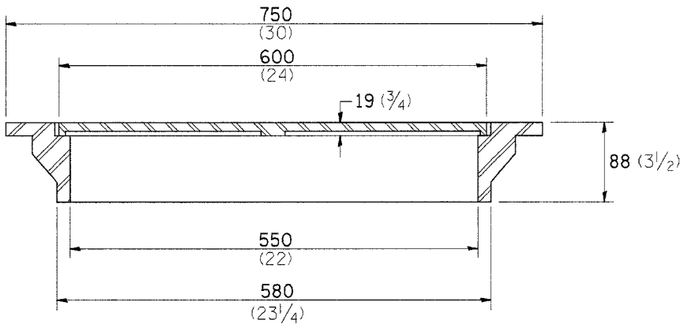
90 62

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	62
STA. 404+30 & 326+50	TO STA. 411+46 & 336+10			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FIELD TILE JUNCTION VAULTS
600 (24) AND 900 (36) DIA.

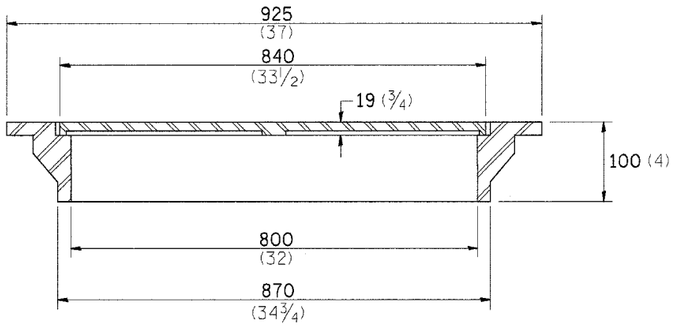


FRAME & LID FOR
600 (24) VAULT

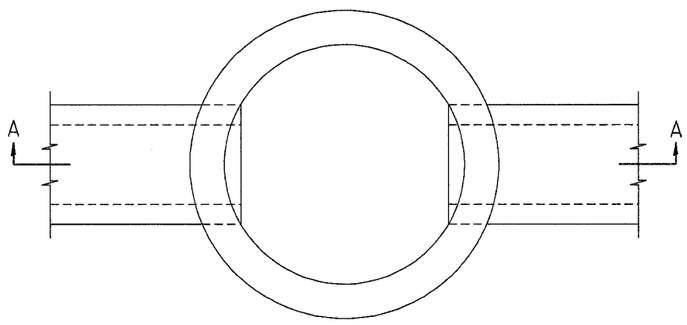


TOTAL WEIGHT: 66 Kg (146 lbs)

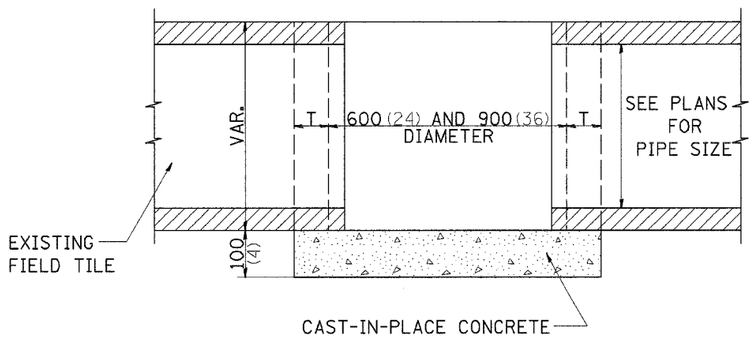
FRAME & LID FOR
900 (36) VAULT



TOTAL WEIGHT: 127 Kg (280 lbs)



PLAN

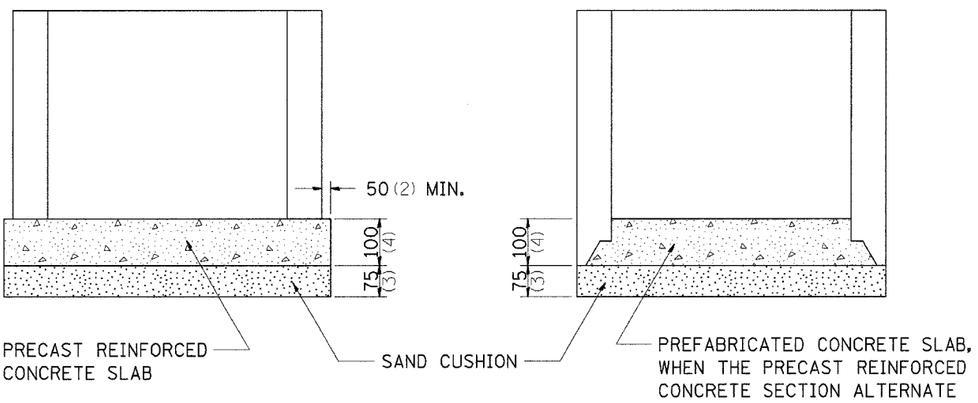


SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



ALTERNATE METHODS

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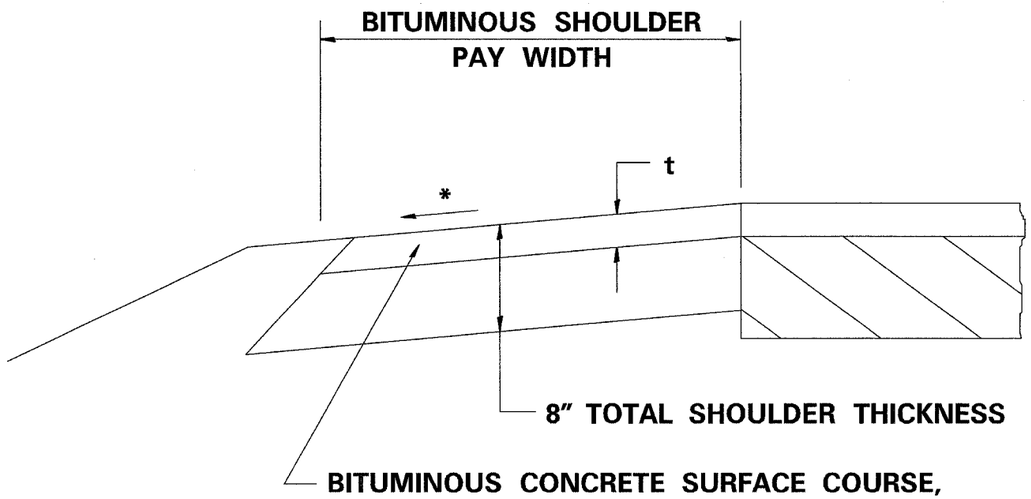
BITUMINOUS SHOULDER

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	63
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



t = SEE TYPICAL SECTIONS FOR THICKNESS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

GENERAL NOTES

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE YARD FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED.

USE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, WHEN RESURFACING EXISTING BITUMINOUS SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE BITUMINOUS SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

CHECKED BY:

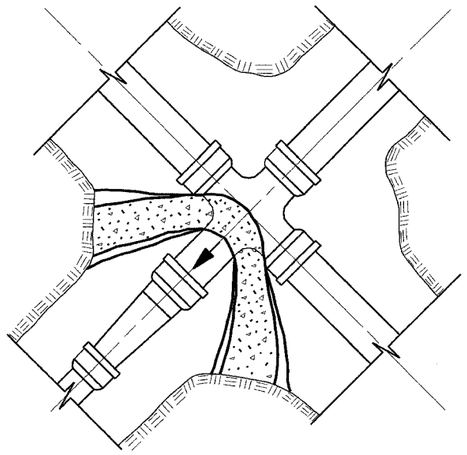
DRAWN BY:

DESIGNED BY:

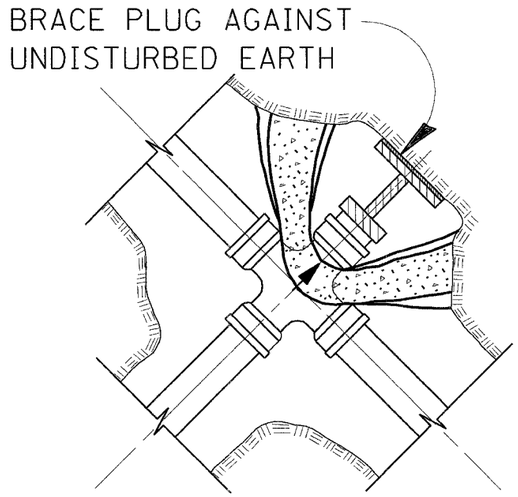
THRUST BLOCK DETAILS

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	64
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

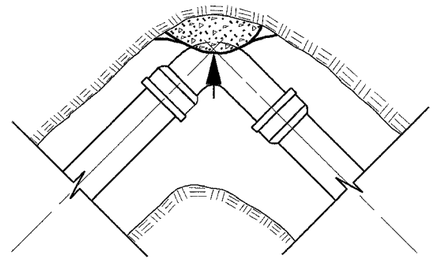
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



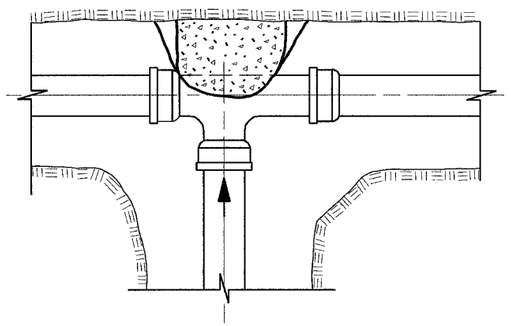
REDUCING CROSS



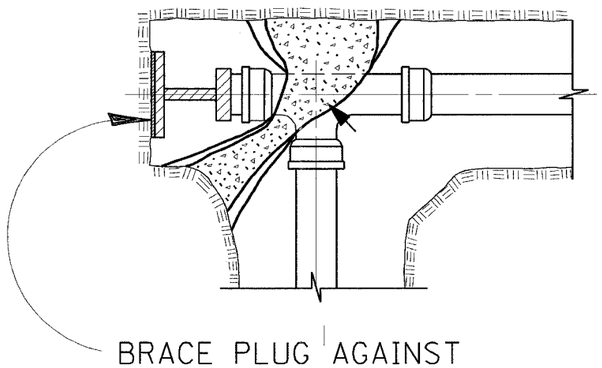
PLUGGED CROSS



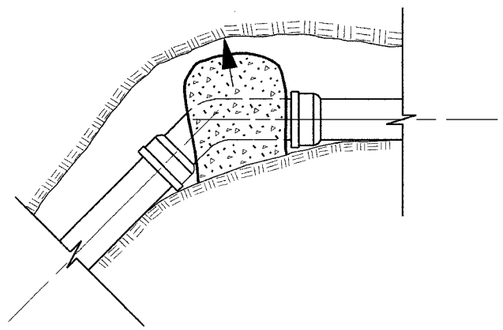
90° ELBOW



TEE



PLUGGED TEE



VERTICAL BEND

NOTES:
ALL BLOCKS TO BEAR AGAINST UNDISTURBED EARTH.
ARROWS INDICATE DIRECTION OF THRUST.
ALL BLOCKS TO BE CLASS SI CONCRETE.
ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

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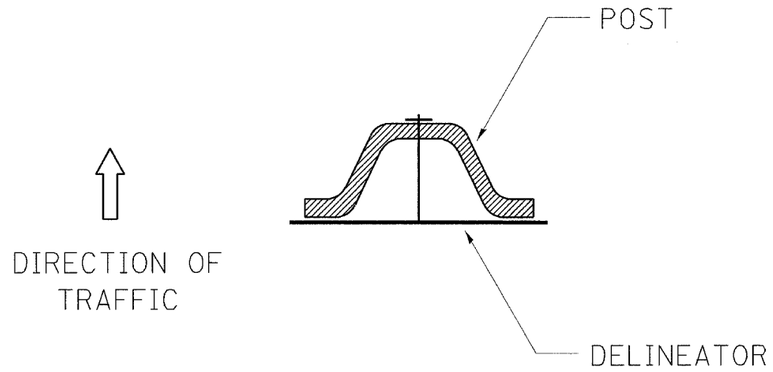
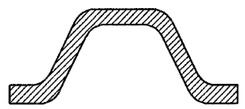
F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	65
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

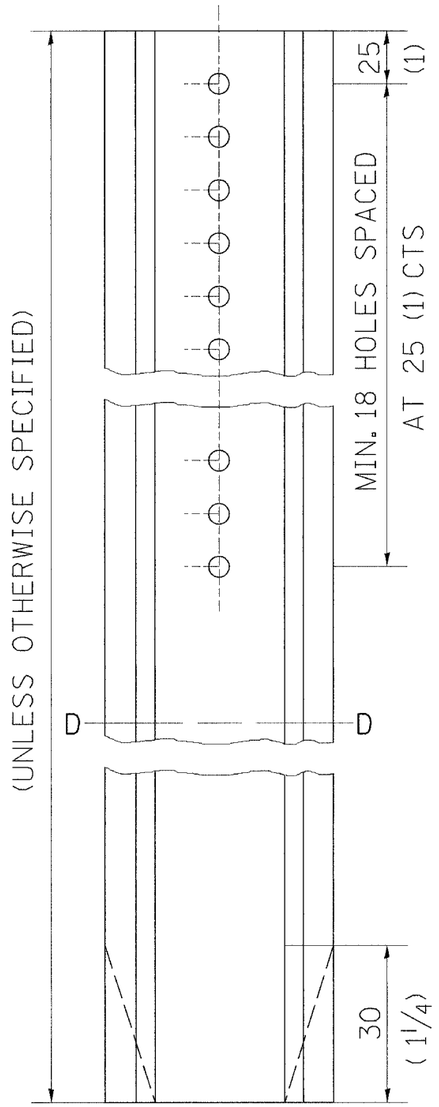
DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.



SECTION D-D



CHECKED BY:

DRAWN BY:

DESIGNED BY:

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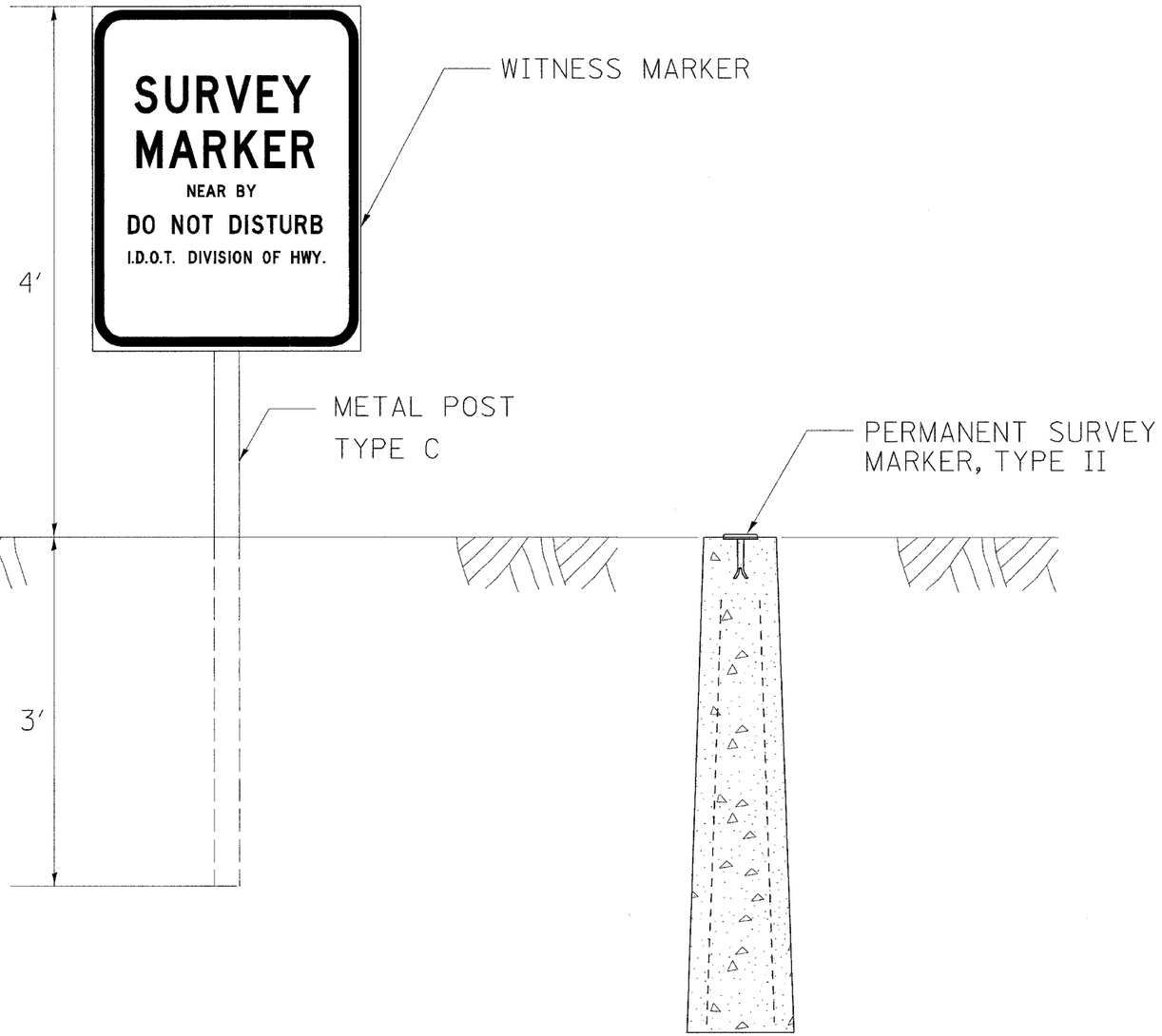
F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	66
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II



GENERAL NOTES

A WITNESS MARKER ON A POST SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II. THE WITNESS MARKERS CAN BE PICKED UP AT THE DISTRICT OFFICE IN DIXON. THE POST SHALL BE TYPE C AS SHOWN ON HIGHWAY STANDARD 720011. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

CHECKED BY:
DRAWN BY:
DESIGNED BY:

Tue Nov 04 09:55:17 2003
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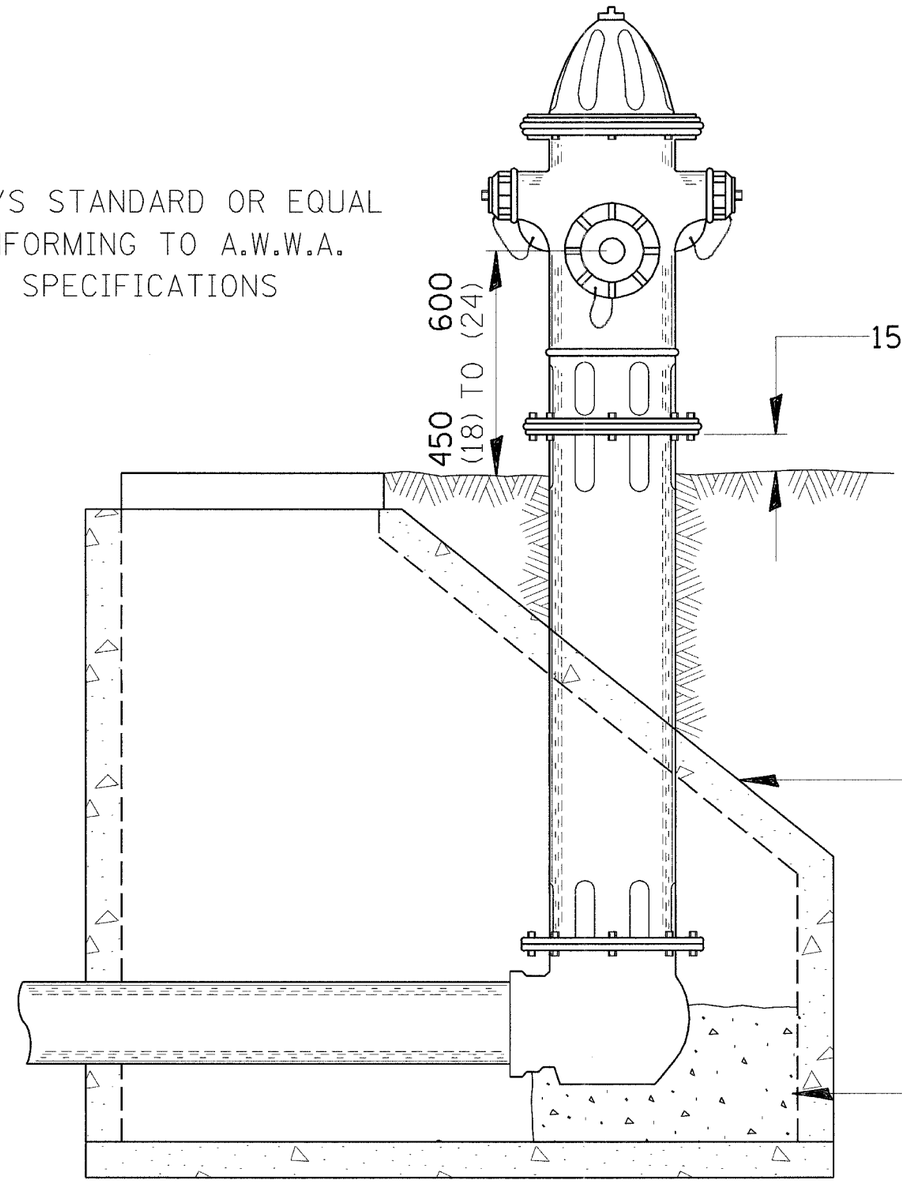
TYPICAL HYDRANT INSTALLATION

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	67
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

OWNER'S STANDARD OR EQUAL
CONFORMING TO A.W.W.A.
SPECIFICATIONS



150 (6) OR CONFORM TO
MANUFACTURER'S
SPECIFICATIONS

MANHOLES; TYPE A, 5' DIAMETER,
TYPE 1 FRAME, CLOSED LID
(SEE HIGHWAY STANDARD 1527 USE
ECCENTRIC ELEVATION)

PROVIDE CONCRETE THRUST
BLOCKING AGAINST MANHOLE.

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REVISED 1-8-96

LETTERING FOR NAME PLATE

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	68
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

STATION
BUILT 200 BY
STATE OF ILLINOIS
RTE. SEC.
FA PROJECT
LOADING HS 20
STR. NO.

SEE STD. 515001

DESIGNERS NOTE

WHEN USING A DOUBLE BOX CULVERT GET A STRUCTURE NUMBER AND SHOW IT ON THE GENERAL NOTES. IF THE DOUBLE BOX CULVERT IS EQUAL TO OR GREATER THAN 6.1m (20 FT) WIDE INCLUDE A PAY ITEM FOR NAME PLATES AND INCLUDE THIS DETAIL IN THE PLANS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	69
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TREE REPLACEMENT SCHEDULE

GENERAL NOTES:

1. TREE LAYOUT SHALL BE PERFORMED BY THE DISTRICT LANDSCAPE ARCHITECT.
2. MULCH SHALL BE HARDWOOD WOOD CHIPS, 5 FOOT WIDTH, 4 INCHES THICK WITH WEED BARRIER FABRIC.
3. ALTERNATE SITE: TBD BY DISCTRICT 2.

SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	LOCATION	QUANTITY
TREE, QUERCUS BICOLOR	SWAMP WHITE OAK	1-3/4" CALIPER, BALLED & BURLAPPED	EACH	SEE ABOVE NOTE	25

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

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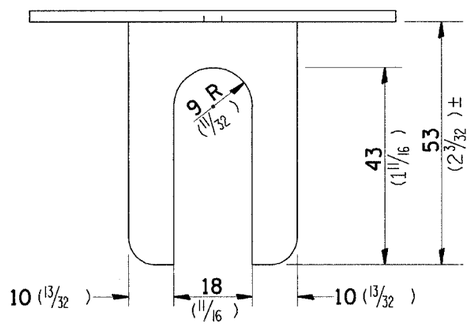
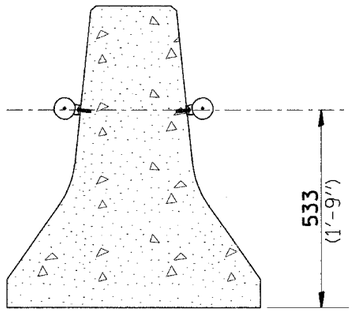
BARRIER REFLECTORS

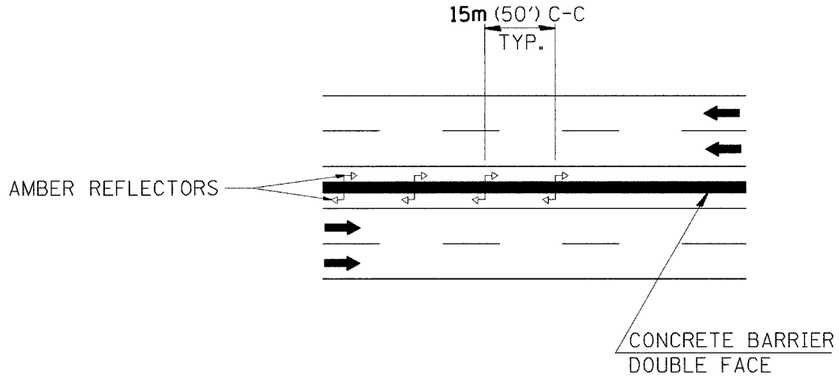
F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT	ROCK ISLAND	90	70
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BARRIER REFLECTOR BRACKET





REFLECTOR MOUNTED ON CONCRETE BARRIER



NOTES:

BRACKET TO BE FABRICATED FROM 12 GAUGE (MIN) STEEL GALVANIZED IN ACCORDANCE WITH ASSHTO M 111.

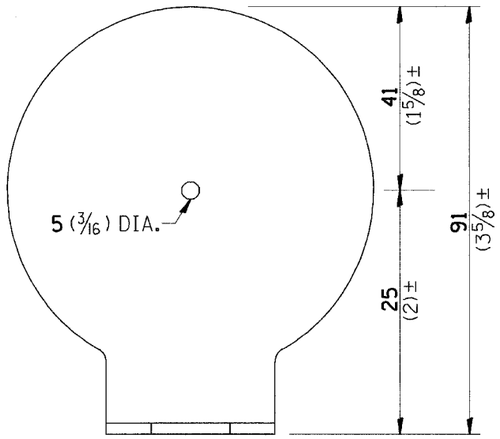
INSTALL AMBER REFLECTORS WITH SPACING OF **15m** (50') CENTERS.

BRACKET SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER.

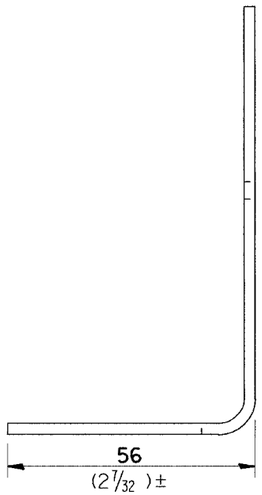
REFLECTORS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 784.07 OF THE STANDARD SPECIFICATIONS.

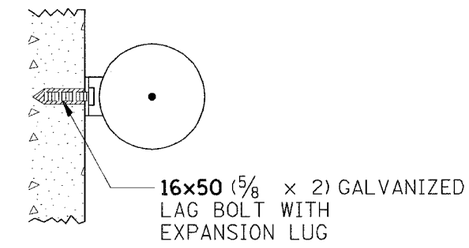
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO UNIT COST OF **CONCRETE BARRIER.**

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



CIRCULAR SHAPE
83 (3 1/4) DIA.





TYPICAL MOUNTING
WITH REFLECTOR, BRACKET,
& BOLT

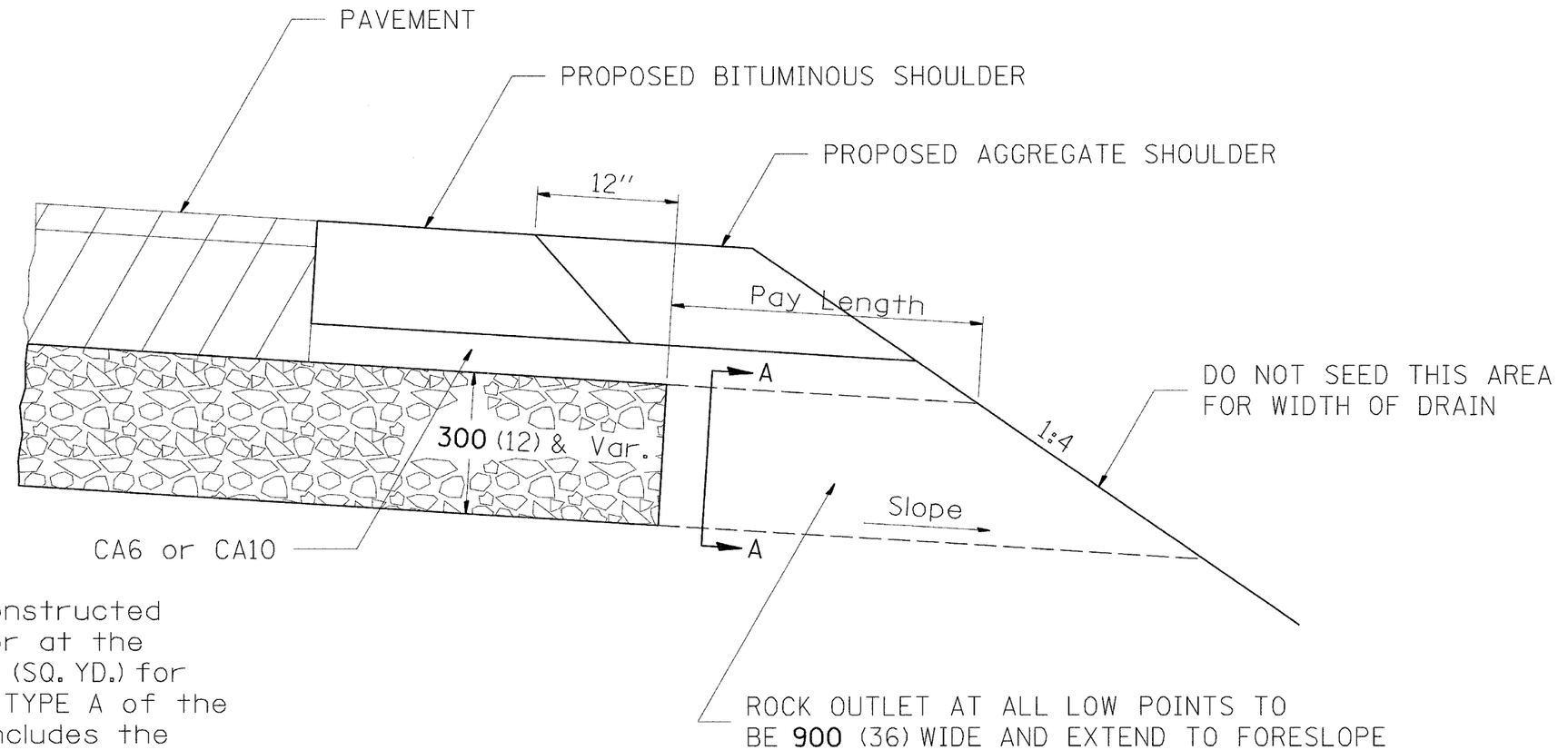
BARRIER REFLECTORS

STANDARD 92.4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	71
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

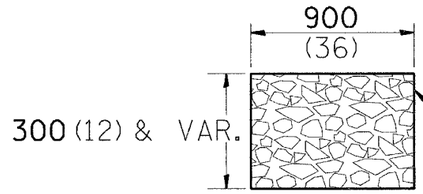
DRAIN FOR AGGREGATE BASE COURSE

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m^2 (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified which includes the filter fabric. The Rock outlets will be measured in m^2 (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per m^2 (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.



SECTION A-A

NOTE: Slope same as shoulder with 2% min.

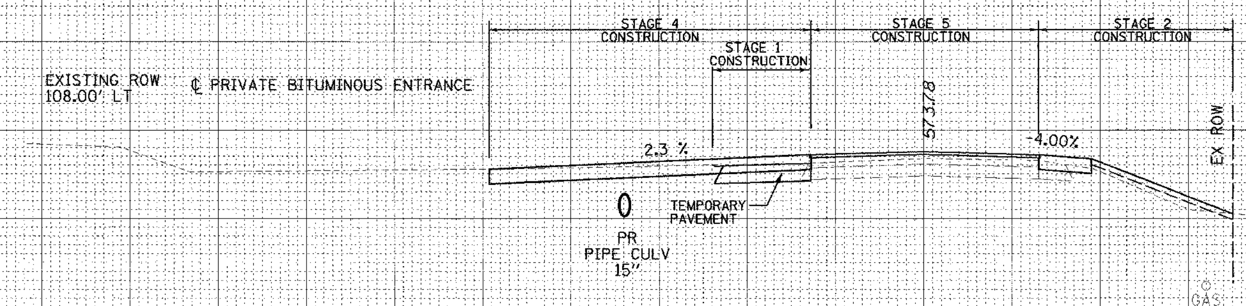
CHECKED BY:
DRAWN BY:
DESIGNED BY:

Tue Nov 04 09:55:28 2003
c:\projects\d2stnds\z96pt4.dgn

REVISED 13-JULY-95

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	72
STA. 404+30.00	TO STA.405+50.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				CONTRACT 64641

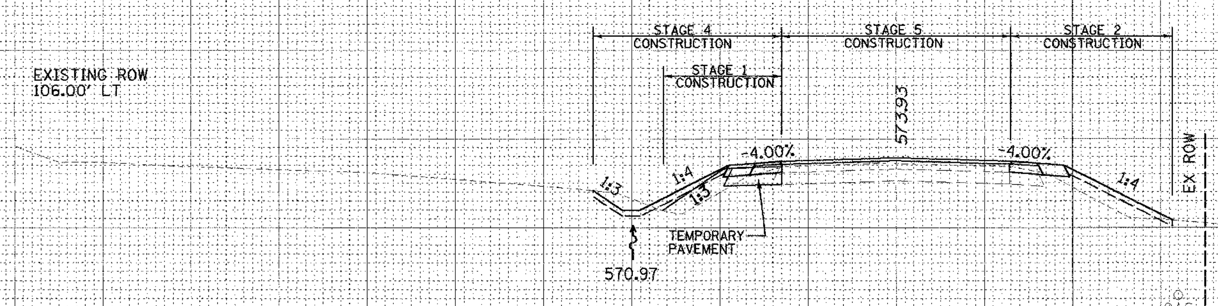
405+50.00



405+50.00

C=9.5 STAGE 1
F=0.0 STAGE 1
C=6.0 STAGE 2
F=6.0 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=28.5 STAGE 4
F=6.4 STAGE 4

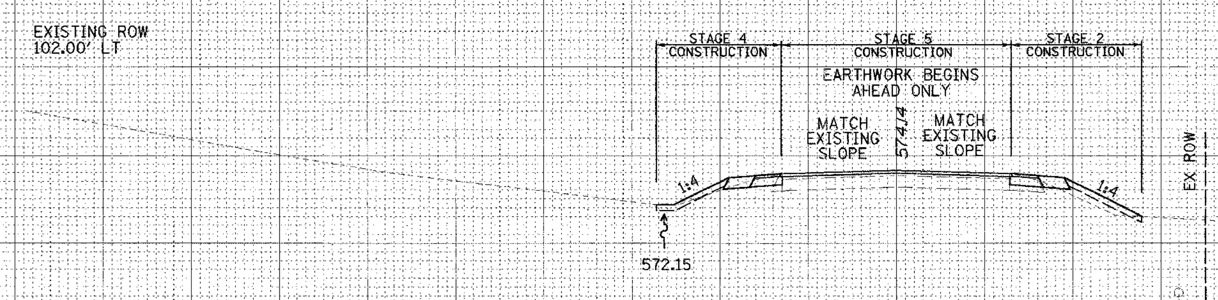
405+00.10



405+00.10

C=2.2 STAGE 1
F=6.8 STAGE 1
C=0.3 STAGE 2
F=9.3 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=11.8 STAGE 4
C=8.3 STAGE 4

404+30.18



404+30.18

C=0.0 STAGE 1
F=0.0 STAGE 1
C=0.4 STAGE 2
F=3.8 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=13.1 STAGE 4
F=0.6 STAGE 4

PLOT DATE: 8/31/2005 2:02:36 PM d16900cxml_stage.dgn

IL RTE 92 STA 404+30.00 TO STA 405+50.00

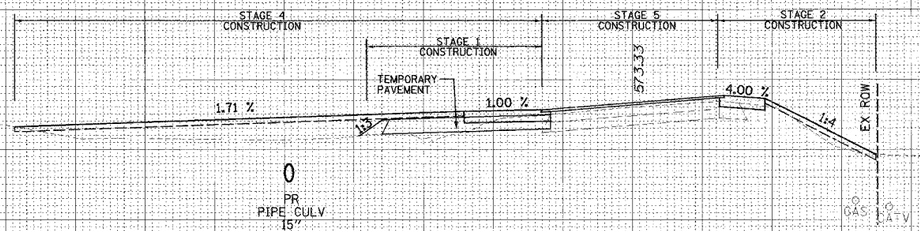
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	73
STA. 406+00.00	TO STA.407+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

ORIGINAL SURVEY — FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS
AREAS CHECKED
BY
DATE
NO.

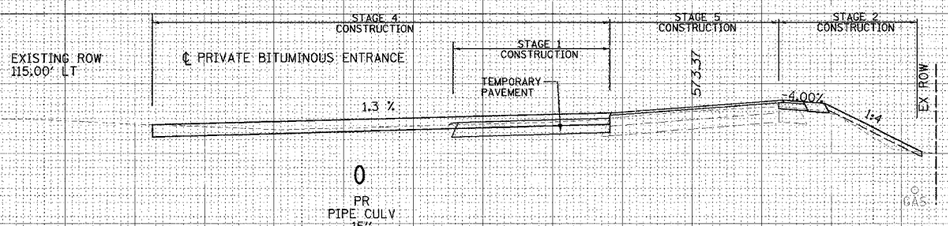
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

580 407+00.00



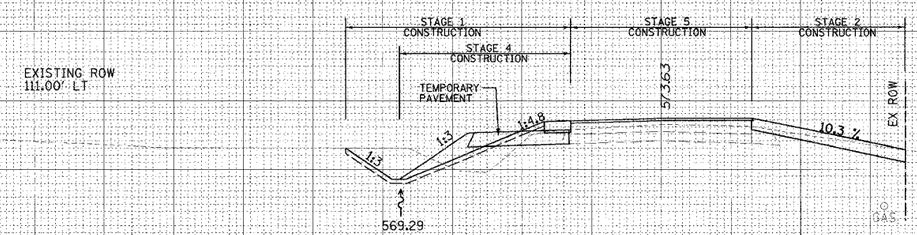
407+00.00
C=7.3 STAGE 1
F=5.1 STAGE 1
C=6.6 STAGE 2
F=6.2 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=25.1 STAGE 4
F=80.1 STAGE 4

580 406+85.00



406+85.00
C=17.8 STAGE 1
F=0.3 STAGE 1
C=0.6 STAGE 2
F=6.9 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=34.7 STAGE 4
F=16.5 STAGE 4

580 406+00.00



406+00.00
C=24.8 STAGE 1
F=17.3 STAGE 1
C=29.1 STAGE 2
F=3.4 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=14.8 STAGE 4
F=7.3 STAGE 4

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PLOT DATE: 8/31/2005 2:03:11 PM d16900axml_stage.dgn

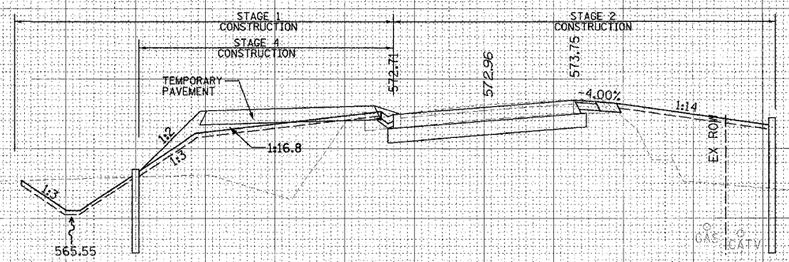
IL RTE 92 STA 406+00.00 TO STA 407+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	74
STA. 408+00.00	TO STA.408+23.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

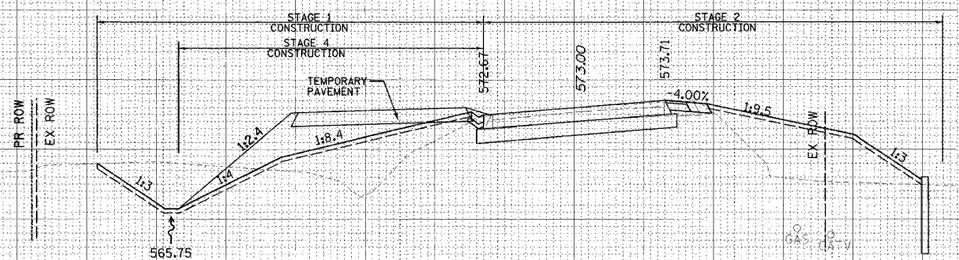
ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — NOTE BOOK — AREAS CHECKED — NO. — BY — DATE

408+23.03



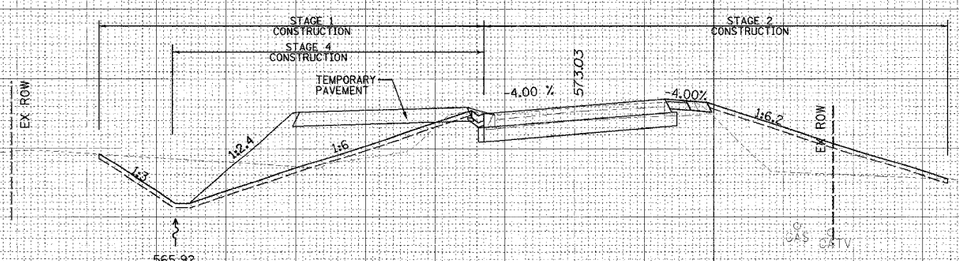
C=21.2 STAGE 1
F=109.1 STAGE 1
C=29.9 STAGE 2
F=78.0 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=38.1 STAGE 4
F=1.9 STAGE 4

408+10.28



C=34.3 STAGE 1
F=97.8 STAGE 1
C=26.8 STAGE 2
F=73.8 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=70.1 STAGE 4
F=1.0 STAGE 4

408+00.00



C=37.4 STAGE 1
F=66.7 STAGE 1
C=25.0 STAGE 2
F=55.4 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=93.9 STAGE 4
F=1.0 STAGE 4

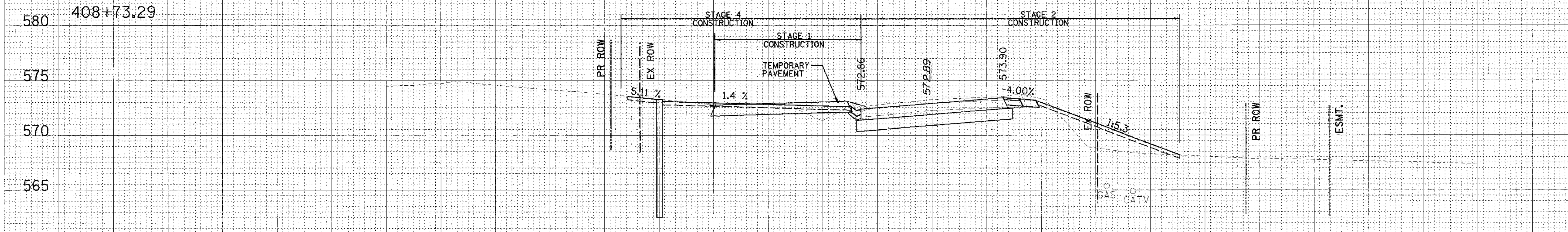
IL RTE 92 STA 408+00.00 TO STA 408+23.03

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	75

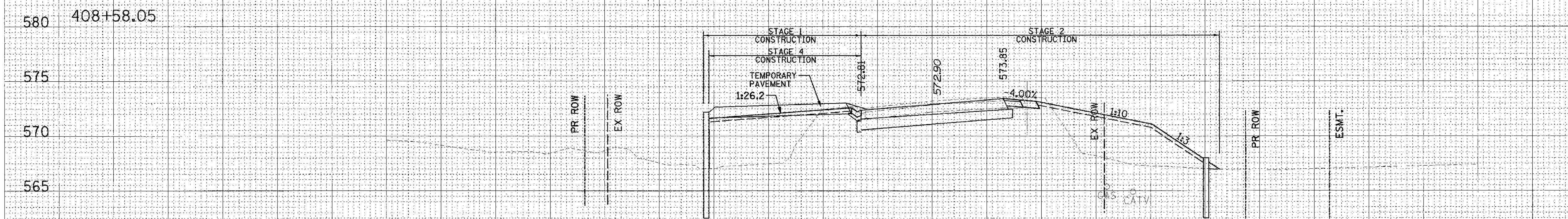
STA. 408+41.00 TO STA. 408+73.29

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

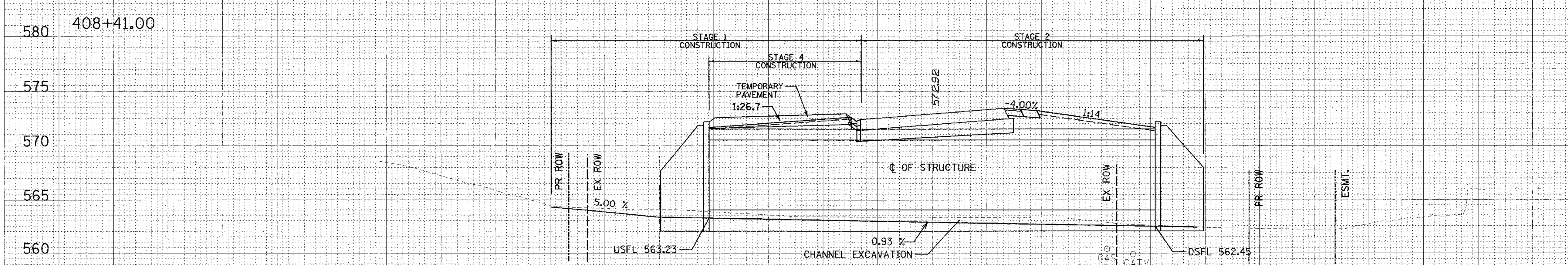
CONTRACT 64641



408+73.29
C=11.5 STAGE 1
F=3.2 STAGE 1
C=39.3 STAGE 2
F=23.6 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=32.1 STAGE 4
F=18.0 STAGE 4



408+58.05
C=3.1 STAGE 1
F=75.0 STAGE 1
C=32.8 STAGE 2
F=75.8 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=28.5 STAGE 4
F=3.8 STAGE 4



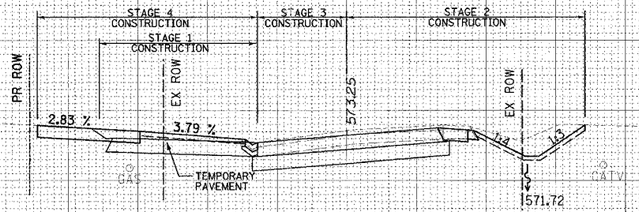
408+41.00
C=0.0 STAGE 1
F=7.0 STAGE 1
C=0.2 STAGE 2
F=52.6 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=25.9 STAGE 4
F=12.3 STAGE 4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	76
STA. 409+00.00	TO STA.410+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			CONTRACT 64641	

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

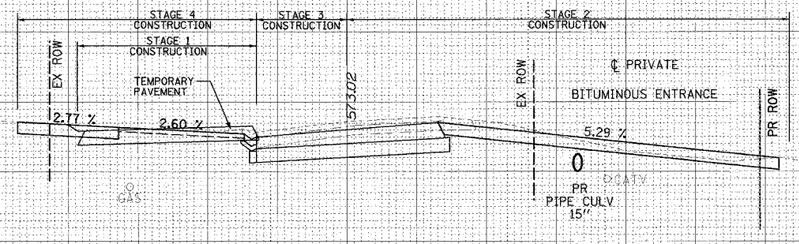
580 575 570

410+00.00



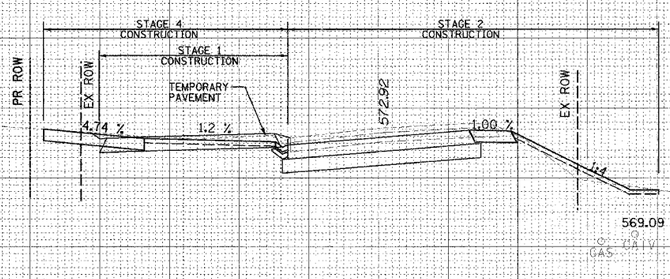
410+00.00
C=29.4 STAGE 1
F=0.0 STAGE 1
C=41.5 STAGE 2
F=0.0 STAGE 2
C=14.9 STAGE 3
F=0.0 STAGE 3
C=25.4 STAGE 4
F=18.8 STAGE 4

580 409+35.00



409+35.00
C=22.7 STAGE 1
F=0.0 STAGE 1
C=93.1 STAGE 2
F=0.0 STAGE 2
C=17.3 STAGE 3
F=0.0 STAGE 3
C=27.3 STAGE 4
F=13.2 STAGE 4

580 409+00.00



409+00.00
C=23.6 STAGE 1
F=1.0 STAGE 1
C=55.1 STAGE 2
F=3.6 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=35.5 STAGE 4
F=22.9 STAGE 4

580 575 570 565

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLOT DATE: 8/31/2005 2:12:48 PM d16900axm1_stage.dgn

IL RTE 92 STA 409+00.00 TO STA 410+00.00

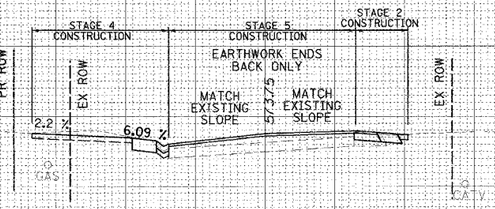
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	77
STA. 410+36.90	TO STA. 411+46.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

580 411+46.03

575

570



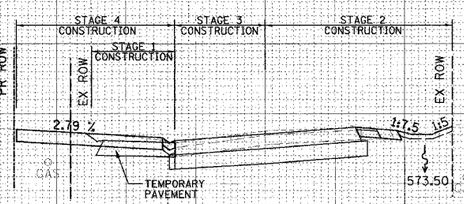
411+46.03
C=0.0 STAGE 1
F=0.0 STAGE 1
C=1.4 STAGE 2
F=1.6 STAGE 2
C=0.0 STAGE 3
F=0.0 STAGE 3
C=12.2 STAGE 4
F=0.0 STAGE 4

580 411+00.00

℄ COMMERCIAL BITUMINOUS ENTRANCE

575

570



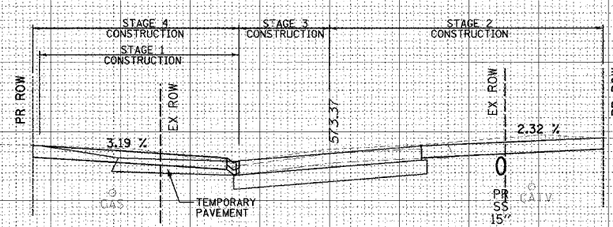
411+00.00
C=13.9 STAGE 1
F=0.0 STAGE 1
C=21.7 STAGE 2
F=0.4 STAGE 2
C=14.1 STAGE 3
F=0.0 STAGE 3
C=11.7 STAGE 4
F=6.1 STAGE 4

580 410+36.90

℄ COMMERCIAL BITUMINOUS ENTRANCE

575

570



℄ PRIVATE BITUMINOUS ENTRANCE

410+36.90
C=25.9 STAGE 1
F=0.0 STAGE 1
C=62.8 STAGE 2
F=0.3 STAGE 2
C=14.9 STAGE 3
F=0.0 STAGE 3
C=25.6 STAGE 4
F=10.8 STAGE 4

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PLOT DATE: 8/31/2005 2:13:54 PM d16900axmi_stage.dgn

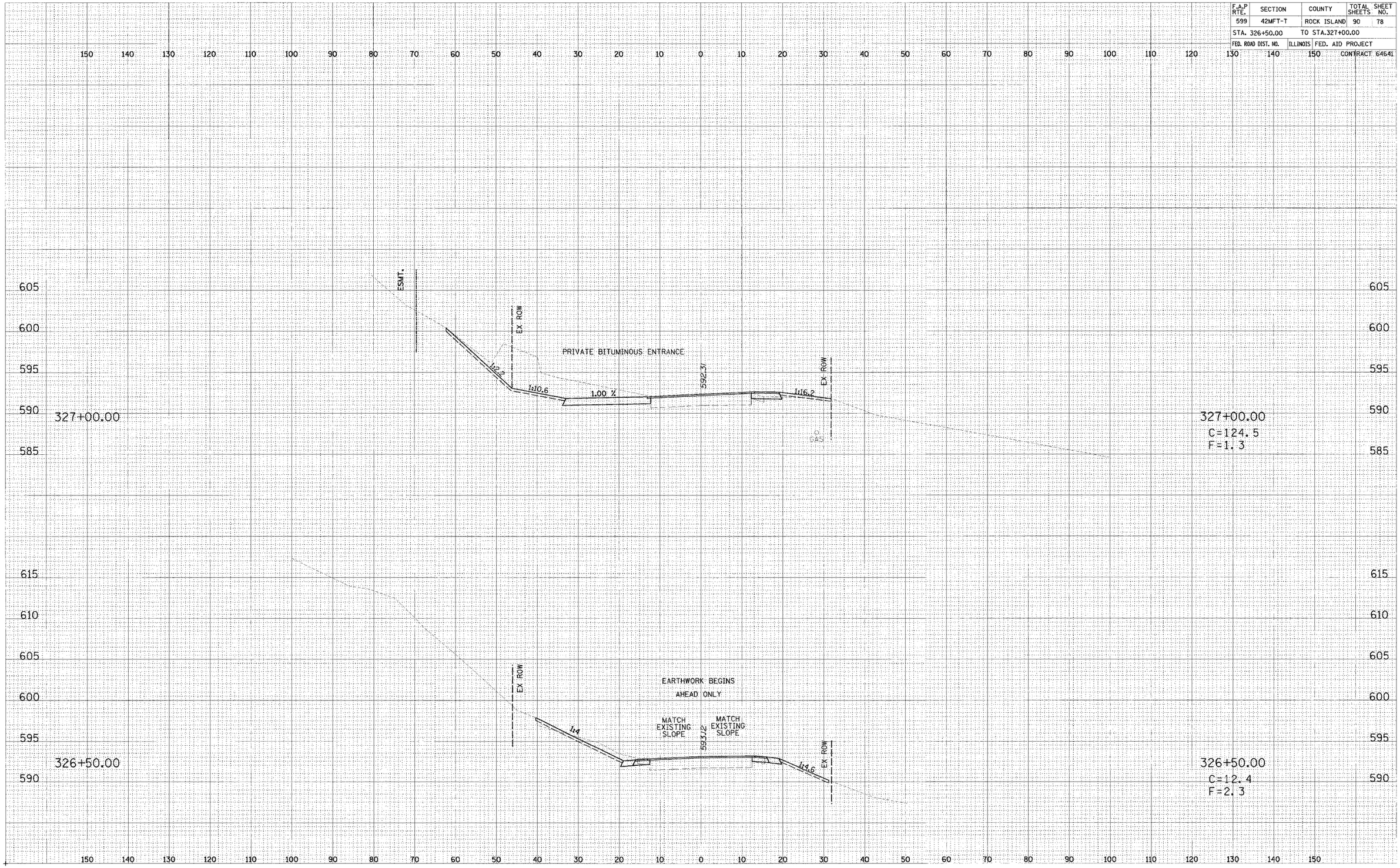
IL RTE 92 STA 410+36.90 TO STA 411+46.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	78
STA. 326+50.00	TO STA.327+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



327+00.00
C=124.5
F=1.3

326+50.00
C=12.4
F=2.3

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	79
STA. 326+50.00		TO STA.327+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMP. ATP
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMP. ATP
AREAS
AREAS CHECKED
BY
DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

605
600
595
590
585

328+00.00

EX ROW

1:3

590.8

1:17.2

EX ROW

0
PR
SS
15"

GAS

328+00.00
C=4.9
F=50.5

ESMT.

PRIVATE BITUMINOUS ENTRANCE
ALONG ℄ OF ENTRANCE

EX ROW

9.44 %

1.00 %

522.3

1:13.7

EX ROW

GAS

327+10.00

327+10.00
C=378.5
F=2.1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PLOT DATE: 8/31/2005 2:18:11 PM d16900bxml.dgn

IL RTE 92 STA 327+10.00 TO STA 328+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	80
STA. 326+50.00		TO STA.327+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

FINAL SURVEY
ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
AREAS CHECKED
BY
DATE
NO.

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

600
595
590
585
580
605

EX. ROW

PRIVATE BITUMINOUS ENTRANCE

329+78.11

1:3
565.91
-0.80 %
1.00 %
EX. ROW
0
PR
SS
15"
0
PR
SS
15"
℄
TELE.
GAS

329+78.11
C=12.1
F=29.7

EX. ROW

329+00.00

1:3
587.56
1:23.5
EX. ROW
0
PR
SS
15"
GAS

329+00.00
C=1.5
F=25.5

PLOT DATE: 8/31/2006 2:18:52 PM d16900bxml.dgn

IL RTE 92 STA 329+00.00 TO STA 329+78.11

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	81
STA. 330+00.00	TO STA.331+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

600 595 590 585 580 575

EX ROW

1:4.4

5842'

1:33.3

1:5

EX ROW

ESMT.

PR SS 15"

PR SS 15"

331+00.00

331+00.00
C=1.5
F=128.7

605 600 595 590 585 580

EX ROW

1:3

585.52'

-0.16 %

1.00 %

4.31 %

EX ROW

PRIVATE BITUMINOUS ENTRANCE

PR SS 15"

PR SS 15"

330+00.00

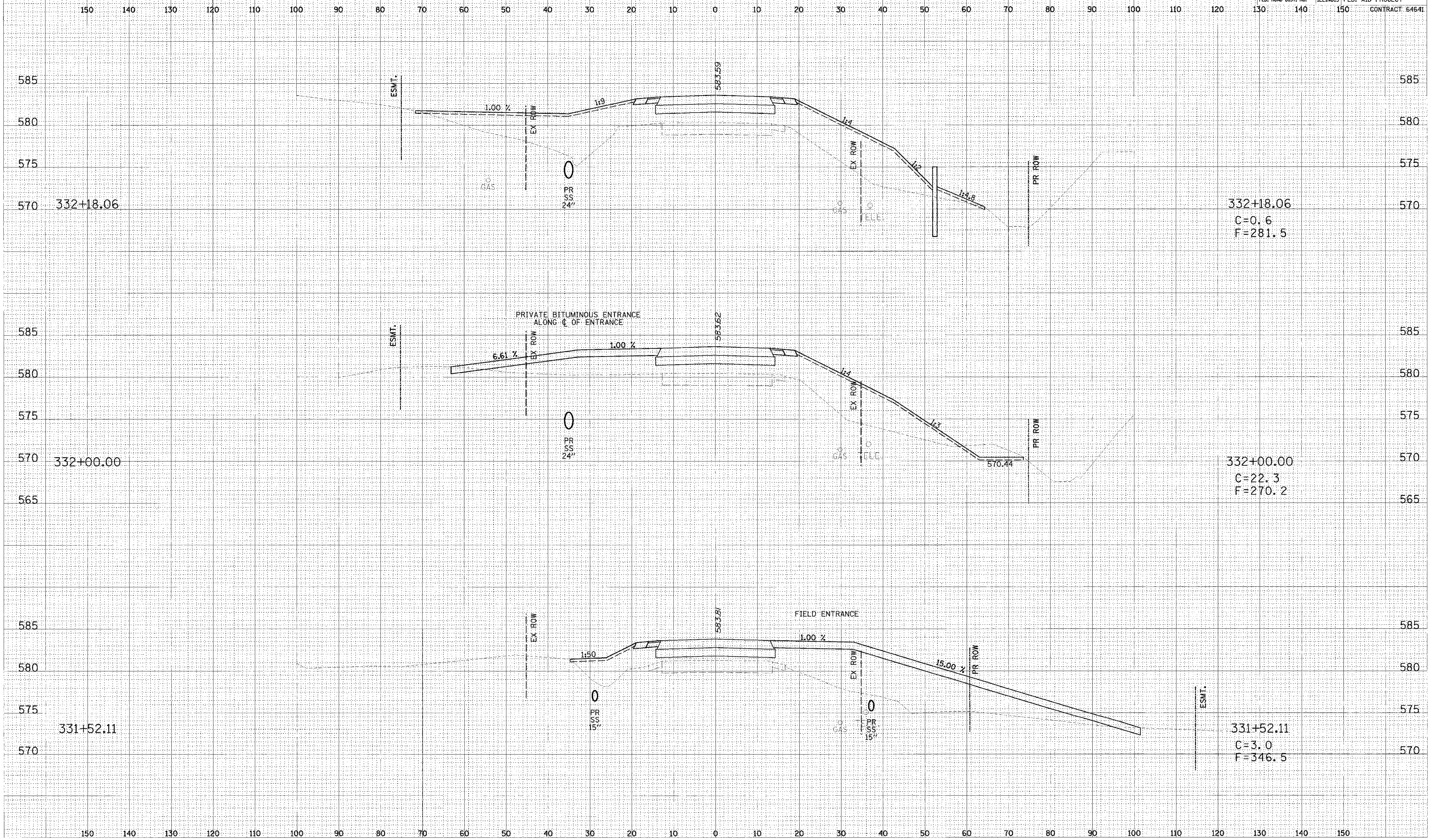
330+00.00
C=16.0
F=25.1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PLOT DATE: 8/31/2005 2:19:51 PM d16900bxml.dgn

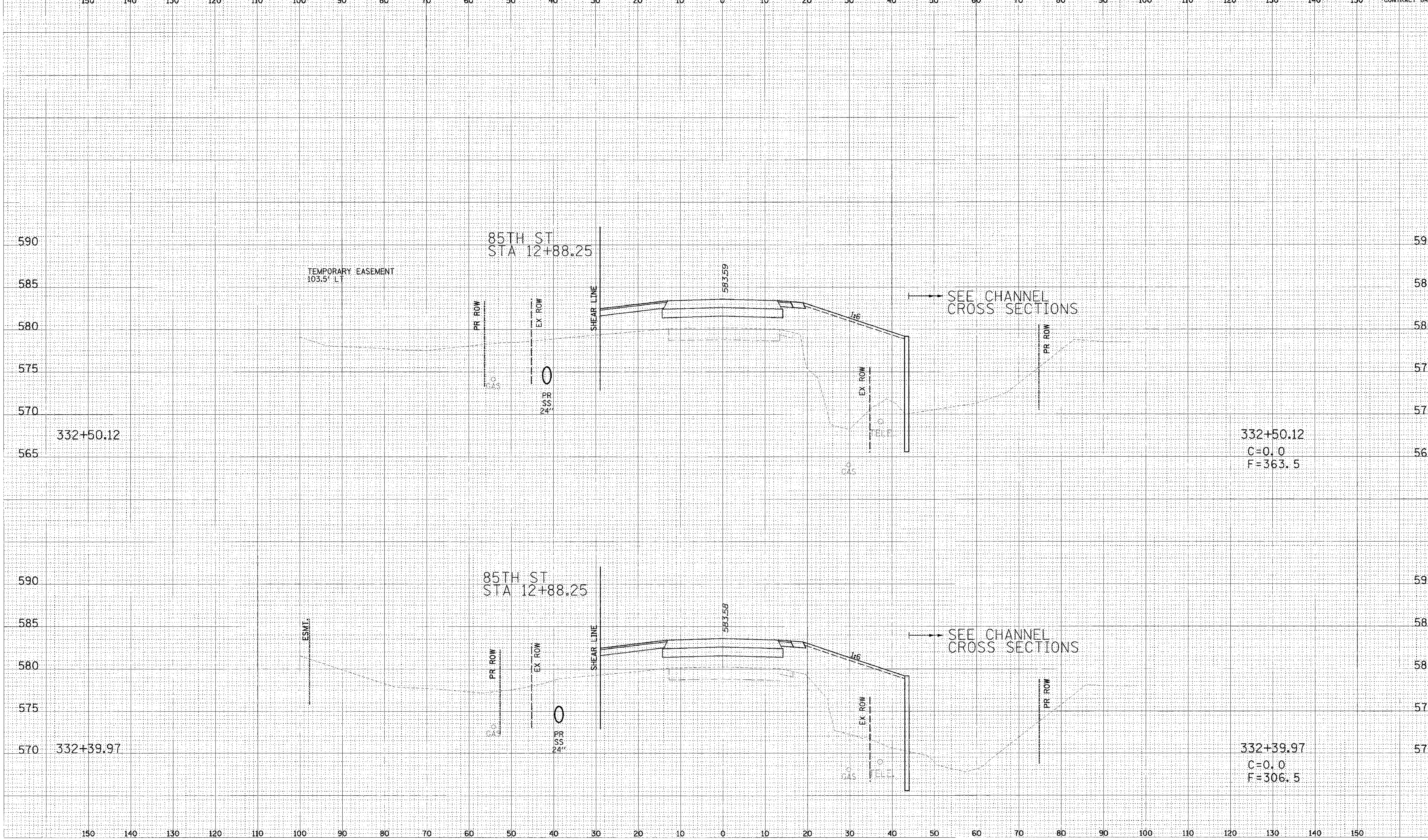
IL RTE 92 STA 330+00.00 TO STA 331+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	82
STA. 331+52.11	TO STA.332+18.06			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				CONTRACT 64641



PLOT DATE: 8/31/2005 2:20:10 PM d16900bxml.dgn

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	83
STA. 332+39.97	TO STA.332+50.12			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		



PLOT DATE: 8/31/2005 2:20:50 PM d16900bxml.dgn

IL RTE 92 STA 332+39.97 TO STA 332+50.12

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	84
STA. 332+69.43	TO STA.333+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 64641				

ORIGINAL SURVEY NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NO. — BY — DATE

TEMPORARY EASEMENT
131.58' LT

PR ROW

EX ROW

1:4

1:3

583.75

573.50

577.50

TELE.

GAS

333+00.00

333+00.00
C=24.2
F=273.8

TEMPORARY EASEMENT
116.4' LT

85TH ST
STA 12+88.25

SHEAR LINE

583.65

1:5.4

1:2

572.75

PR SS 24"

332+73.06

332+73.06
C=78.4
F=276.8

TEMPORARY EASEMENT
114.4' LT

583.63

1:8.3

SEE CHANNEL CROSS SECTIONS

332+69.43

332+69.43
C=0.0
F=302.5

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

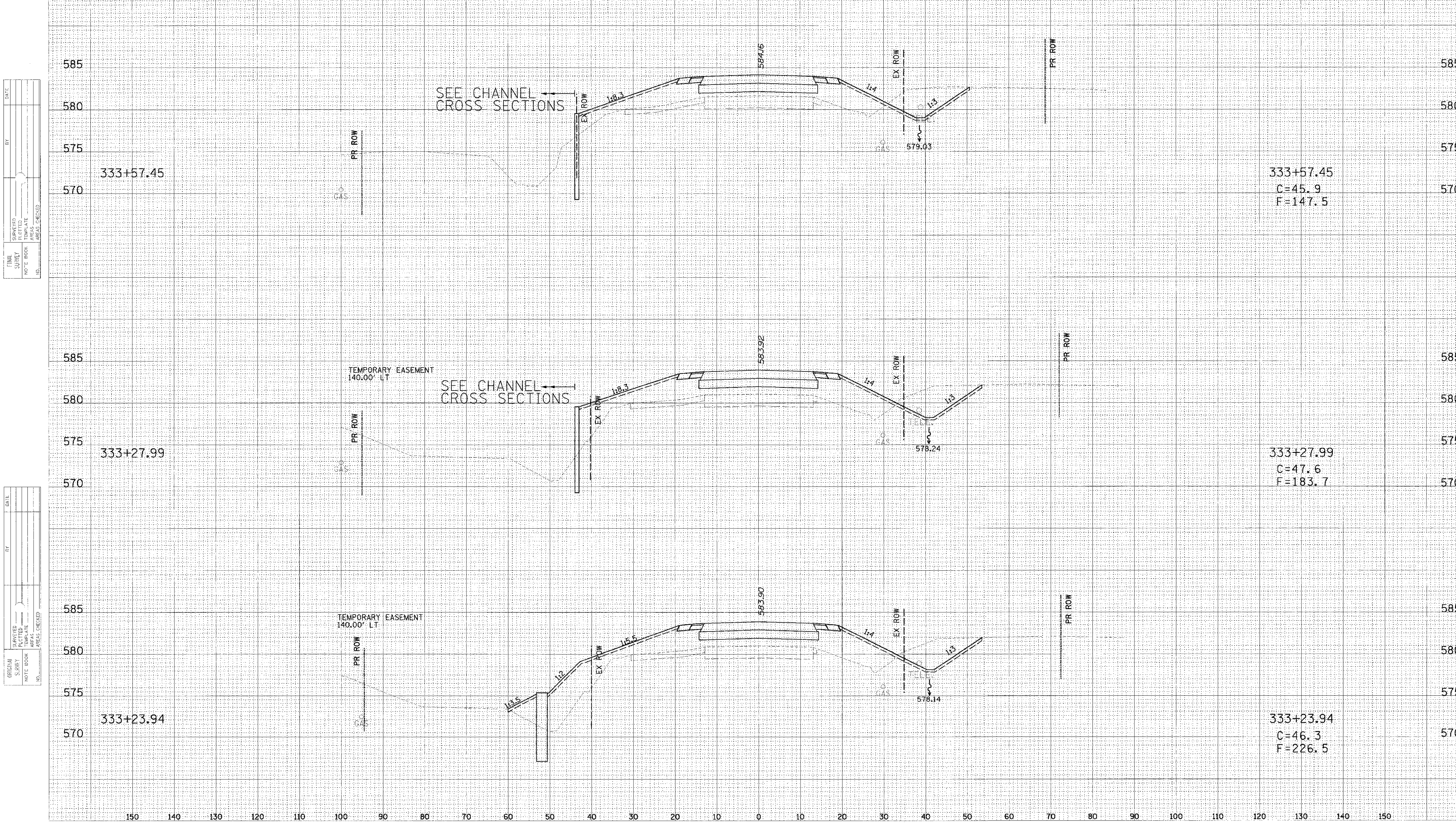
585 580 575 590 570

PLOT DATE: 8/31/2005 2:21:29 PM d16900bxml.dgn

IL RTE 92 STA 332+69.43 TO STA 333+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	85
STA. 333+23.94	TO STA.333+57.45			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 64641



PLOT DATE: 8/31/2005 2:22:12 PM d16900bxml.dgn

IL RTE 92 STA 333+23.94 TO STA 333+57.45

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	86
STA. 333+78.94		TO STA.334+31.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
				CONTRACT 64641

ORIGINAL SURVEY / FINAL SURVEY — SURVEYED / PLOTTED — NOTE BOOK — NO. — BY — DATE — TEMPLATE — AREAS CHECKED

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

585 580 575 570

334+31.00

PRIVATE BITUMINOUS ENTRANCE
ALONG ℄ OF ENTRANCE

ESMT. PR ROW 11.00 % 0 PR PIPE CULV 15" 1.00 % 585.04 1:4 EX ROW 1:3 580.08 TELE. GAS PR ROW

334+31.00
C=11.9
F=175.6

334+00.00

PR ROW EX ROW 1:4 584.62 1:4 EX ROW 1:3 TELE. GAS 580.16 PR ROW

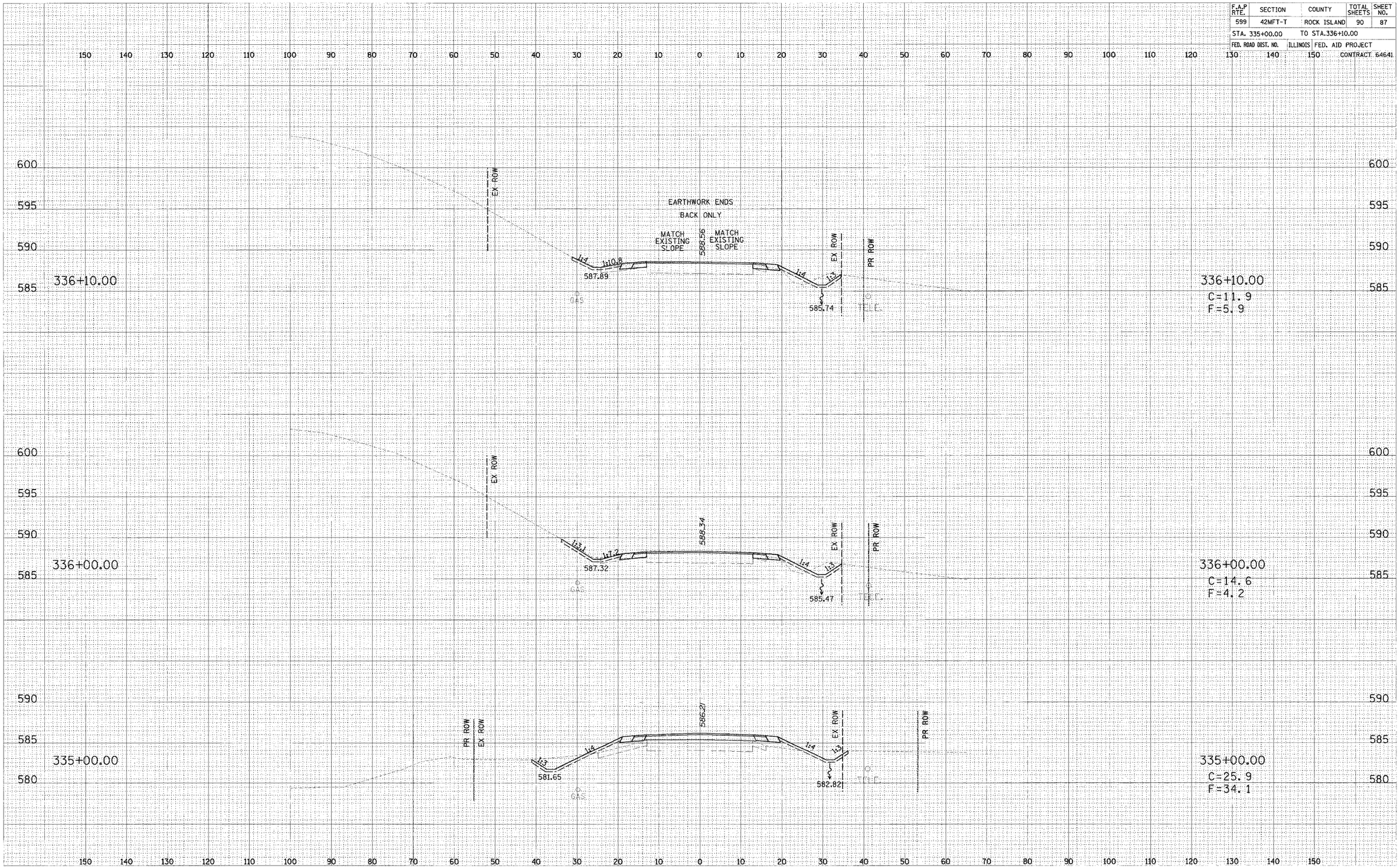
334+00.00
C=14.0
F=100.9

333+78.94

PR ROW GAS 1:14.5 1:3 EX ROW 1:4 584.38 1:4 EX ROW 1:3 TELE. GAS 579.60 PR ROW

333+78.94
C=55.7
F=111.7

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	87
STA. 335+00.00		TO STA.336+10.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			CONTRACT 64641	



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IL RTE 92 STA 335+00.00 TO STA 336+10.00

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	88
STA. 11+50.00		TO STA.12+88.25		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				CONTRACT 64641

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

FAP 599
STA 333+00

EARTHWORK ENDS
BACK ONLY

FAP 599
STA 332+18.06

SHEAR LINE
582.45
1:14.5
1:8.2
1:7.4
1:6
SHEAR LINE
12+88.25
GAS
12+88.25

FAP 599
STA 333+00

SHEAR LINE
1:4
1:4
1:4
5802
PR ROW
EX ROW
ESMT.
GAS
12+50.00
12+50.00

PR ROW
5782.5
1:4
1:4
ESMT.
GAS
12+00.00
12+00.00

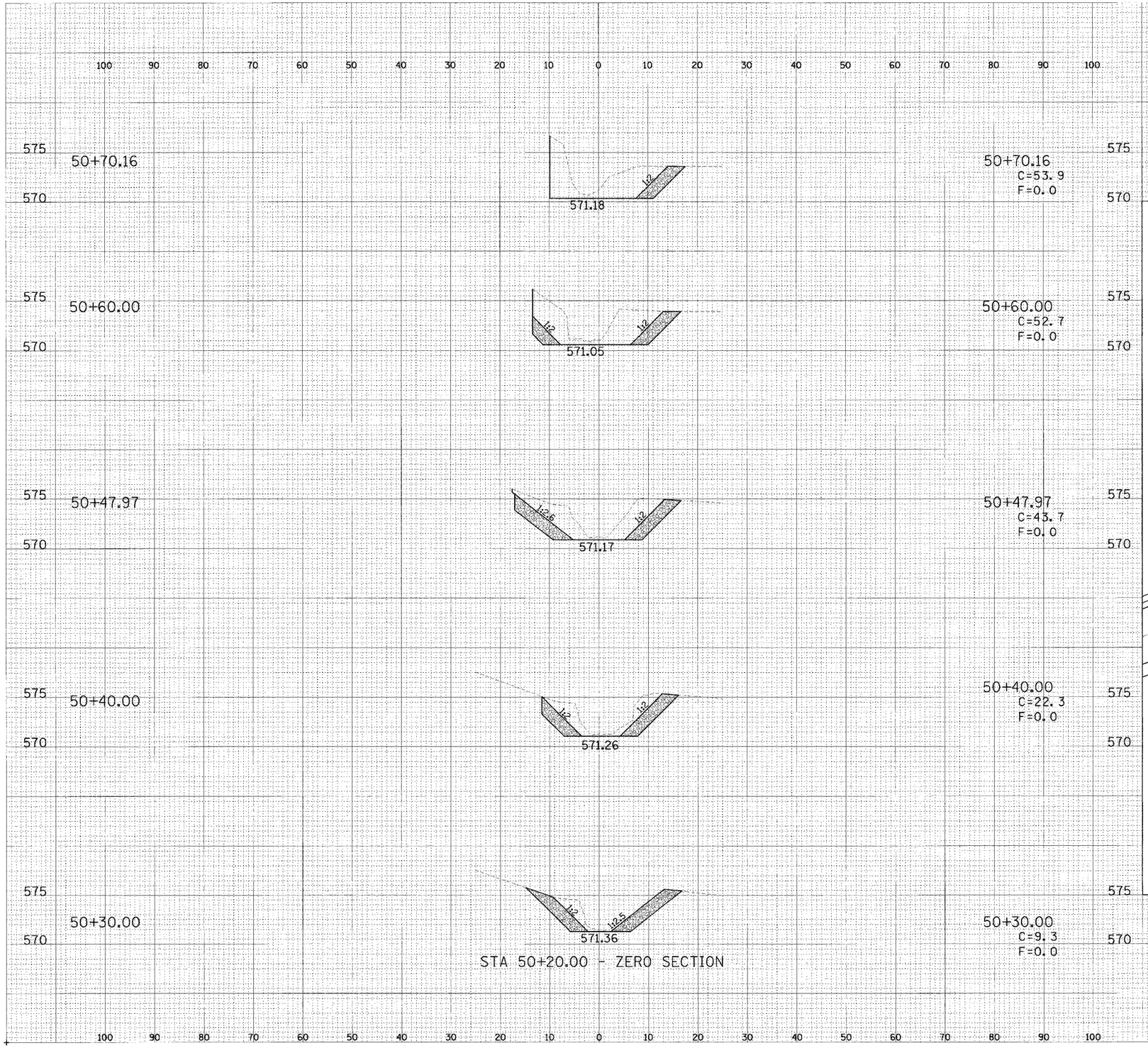
AHEAD ONLY
EARTHWORK BEGINS

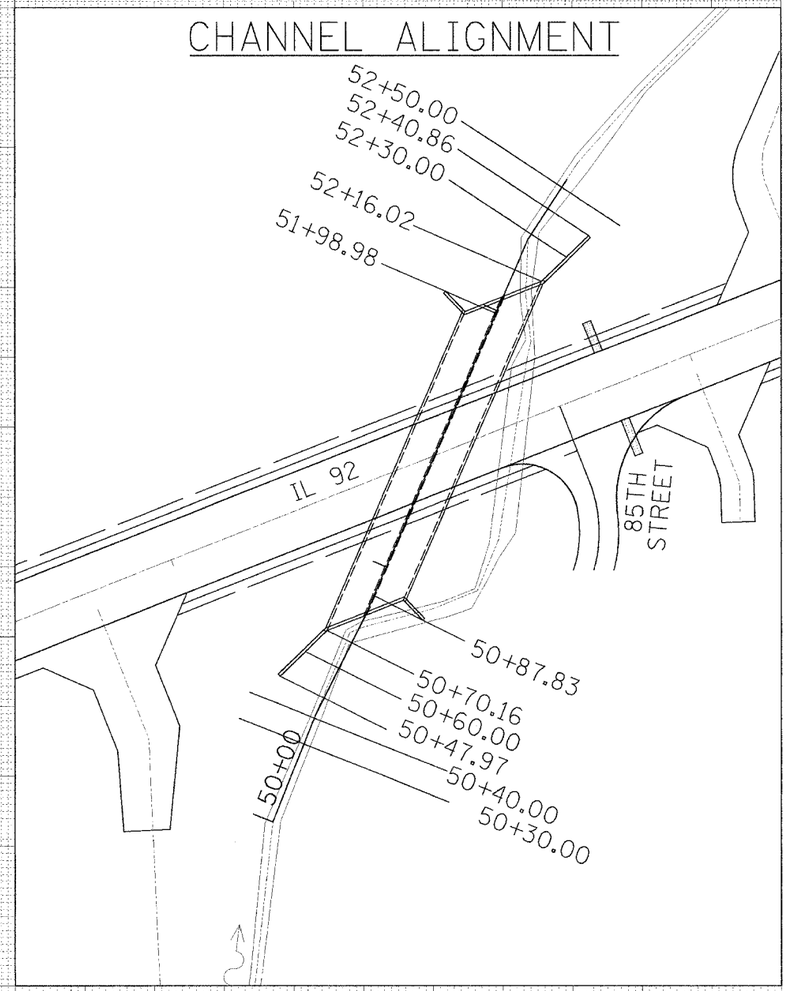
ESMT.
MATCH EXISTING SLOPE
5777.0
MATCH EXISTING SLOPE
ESMT.
GAS
11+50.00
11+50.00

PLOT DATE: 8/31/2005 2:48:35 PM d16900b85xml.dgn

85TH STREET STA 11+50.00 TO STA 12+88.25

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	89
STA. 50+30.00	TO STA.50+70.16			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 64641				





PROPOSED STONE RIPRAP CLASS A5

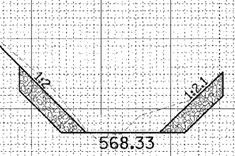
NOTE: CUT QUANTITIES SHOWN ARE FOR CHANNEL EXCAVATION ONLY. ADDITIONAL EXCAVATION FOR RIPRAP IS INCLUDED IN CONTRACT UNIT PRICE FOR RIPRAP PER ARTICLE 281.07.

CHANNEL EXCAVATION STA 50+30.00 TO STA 50+70.16

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	90
STA. 50+87.83	TO STA.52+40.86			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 64641				

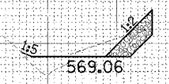
ORIGINAL SURVEY	SURVEYED	BY
FINAL SURVEY	PLOTTED	DATE
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

STA 52+50.00 - ZERO SECTION



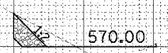
52+40.86
C=17.6
F=1.2

52+30.00



52+30.00
C=4.5
F=5.3

52+16.02



52+16.02
C=5.1
F=10.8

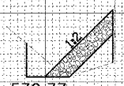
51+98.98

STA 51+95.17 - ZERO SECTION

51+98.98
C=54.0
F=0.0

STA 50+91.56 - ZERO SECTION

50+87.83



50+87.83
C=5.7
F=6.1

PROPOSED STONE RIPRAP CLASS A5

NOTE: CUT QUANTITIES SHOWN ARE FOR CHANNEL EXCAVATION ONLY. ADDITIONAL EXCAVATION FOR RIPRAP IS INCLUDED IN CONTRACT UNIT PRICE FOR RIPRAP PER ARTICLE 281.07.

CHANNEL EXCAVATION STA 50+87.83 TO STA 52+40.86