

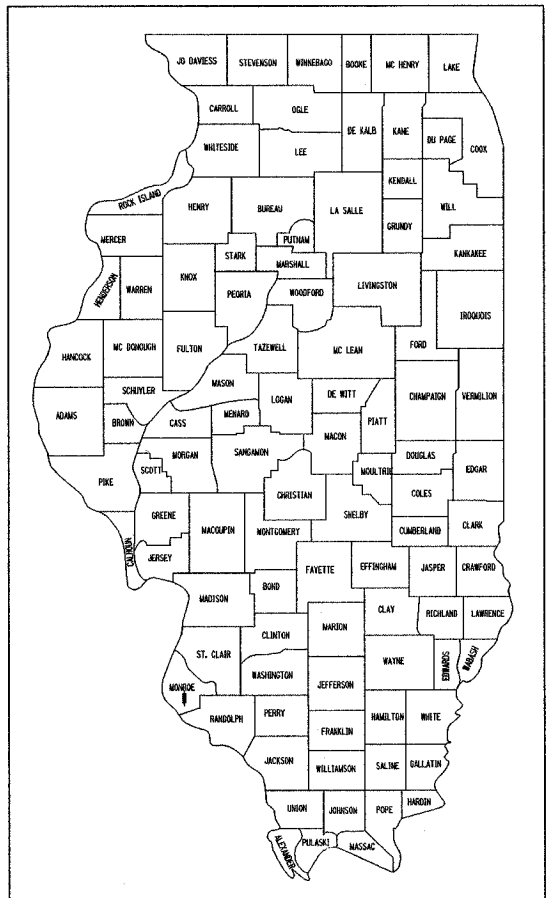
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 97264

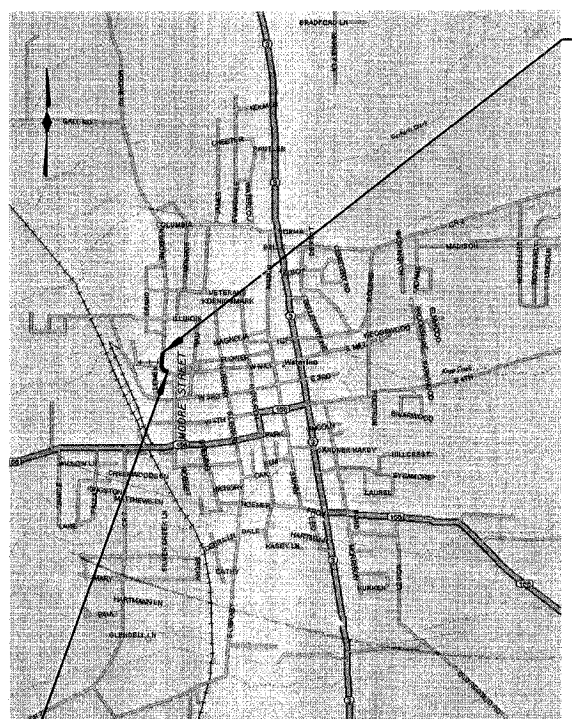
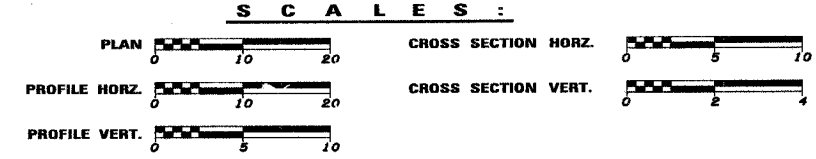
FOR INDEX OF SHEETS AND STANDARDS, SEE SHEET 2

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

**CITY OF WATERLOO
F.A.U. ROUTE 9315 MOORE STREET
SECTION 00-00032-00-RP
PROJECT NO. M-5011(172)
MONROE COUNTY
JOB NO. C-98-336-04**



LOCATION OF SECTION INDICATED THUS:



**SECTION 00-00032-00-RP
ENDS AT STA. 118+60**

**SECTION 00-00032-00-RP
BEGINS AT STA. 113+63**

LOCATION MAP

NET LENGTH OF IMPROVEMENT = 497 FEET OR 0.094 MILES

UTILITY COMPANIES

- CITY OF WATERLOO (GAS MAIN)
- CITY OF WATERLOO (SANITARY SEWER)
- CITY OF WATERLOO (WATER)
- CITY OF WATERLOO (HIGH PRESSURE GAS MAIN)
- CITY OF WATERLOO (OVERHEAD & BURIED ELECTRIC)
- HARRISONVILLE TELEPHONE CO. (TELEPHONE & CATV)

MOORE STREET

ROADWAY DESIGNATION: URBAN COLLECTOR
DESIGN SPEED: 30 MPH
DESIGN YEAR: (2025) ADT: 5,229

**JOINT UTILITY INFORMATION FOR
EXCAVATIONS - JULIE PH. 800-892-0123**

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES.

CONTRACT NO. 97264

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED November 18 2005
Terry Kipping TERRY KIPPING, MAYOR

APPROVED 1-4 2006
Jennifer Obertino JENNIFER OBERTINO, P.E.
DISTRICT LOCAL ROADS ENGINEER

PASSED 1-4 2006
Mary C. Lurie MARY C. LURIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

PREPARED BY:
HENRY, WEISENHEIMER & GENCS., INC.
ENGINEERS
CARLYLE, ILLINOIS 62231
(618) 594-3711

WILFORD W. CHEATHAM, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-054894
REGISTRATION EXPIRES NOV. 30, 2005

Christopher R. Wilson
CHRISTOPHER R. WILSON, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-051234
REGISTRATION EXPIRES NOV. 30, 2005



PLOTTED: \$DATE\$

P.L.C.E. NO. 4690

GENERAL NOTES

1. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
2. 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 PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AN AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
3. UNDERGROUND UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE RECORDS, AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED. THE FOLLOWING COMPANIES MAY HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION:

CITY OF WATERLOO (WATER, SANITARY SEWER, GAS & ELECTRIC)	HARRISONVILLE TELEPHONE COMPANY (TELEPHONE & CABLE TV)
ATTN: TIM BIRK	213 S MAIN STREET
100 W FOURTH STREET	WATERLOO, ILLINOIS 62298
WATERLOO, ILLINOIS 62298	TELEPHONE (618)939-6112
TELEPHONE (618)939-8661	
4. THE CONTRACTOR SHALL EXERCISE CARE IN PERFORMING REMOVALS, SO AS NOT TO DISRUPT ADJOINING FEATURES THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED TO ADJOINING FEATURES AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
5. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB-CONTRACTED WORK, REGARDLESS OF FUNDING SOURCE. THE SPECIAL PROVISIONS, SPECIFICATIONS, AND STANDARD SPECIFICATIONS SHALL GOVERN CONTRACTURAL REQUIREMENTS FOR SAID ARRANGEMENTS.
6. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION.
7. ALL SAWCUTTING REQUIRED FOR REMOVALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT OF REMOVAL QUANTITIES.
8. ALL DRILLING, BARS, GROUTING AND EXPANSION JOINTS REQUIRED SHALL BE INCLUDED IN THE COST OF PCC PAVEMENT.
9. THE CONTRACTOR SHALL EXERCISE CARE IN EXCAVATING AROUND EXISTING UTILITIES TO REMAIN IN PLACE, SUCH AS WATER AND SEWER MAINS, AND SHALL BE RESPONSIBLE FOR REPAIR OF THESE AND MAINTENACE OF SERVICE, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, AS DEEMED SUCH BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POSITIVE DRAINAGE IN THE DISTURBED AREAS, TO THE SATISFACTION OF THE ENGINEER.
11. ALL AREAS THAT ARE DISTURBED BEYOND THE SEEDING LIMITS SHALL BE GRADED BY THE CONTRACTOR AT HIS/HER EXPENSE, IN THE SAME MANNER AS FINAL GRADING WORK PER THE SPECIFICATIONS, TO THE SATISFACTION OF THE ENGINEER.
12. IN ADDITION TO WARNING SIGNS SHOWN ON THE STANDARDS FOR TRAFFIC CONTROL, ROAD CONSTRUCTION AHEAD SIGNS SHALL BE PLACED ON INTERSECTING SIDE ROADS THROUGHOUT THE WORK ZONE. ALL WARNING SIGNS SHALL BE 48" FLOURESCENT ORANGE.
13. REMOVAL OF EXISTING OIL AND CHIP SURFACE AND AGGREGATE HAS BEEN INCLUDED IN THE EARTHWORK QUANTITIES AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR EARTH EXCAVATION.
14. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

ALL AGGREGATE	2.05 Tons/cu yd
ALL BITUMINOUS CONCRETE	112 Lbs/sq yd/Inch or 2.016 Tons/cu yd
BITUMINOUS MATERIALS PRIME COAT	0.375 Gallons/sq yd (Aggregate Surface) or
	0.075 Gallons/sq yd (Concrete or Bituminous Surface)
AGGREGATE PRIME COAT	5 Lbs/sq yd (Aggregate Surface) or
	3 Lbs/sq yd (Concrete or Bituminous Surface)
RIPRAP	15 Tons/ cu yd; 0.3333 Tons/Sq. Yd. for Class A3
15. ALL ADVANCED WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE.
16. COST OF ALL SAWED LONGITUDINAL JOINTS AND ALL SAWED CONTRACTION JOINTS WILL BE INCLUDED IN THE COST OF THE PCC PAVEMENT.
17. FORMS FOR COMBINATION CONCRETE CURB AND GUTTER AND CONCRETE GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.
18. PROTECTIVE COAT SHALL BE APPLIED TO ALL PCC PAVEMENT, PCC DRIVEWAY PAVEMENT, SIDEWALKS, GUTTER FLAGS, AND FACE OF CURB AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.21.
19. ADDITIONAL WIDTH OF GUTTER FLAG, AT LOCATIONS INDICATED ON THE PLANS, SHALL BE POURED MONOLITHICALLY WITH THE NORMAL GUTTER FLAG AND WILL NOT BE MEASURED NOR PAID FOR SEPARATELY.
20. AT ALL LOCATIONS WHERE THE PROPOSED BITUMINOUS OR CONCRETE PAVEMENT JOINS AN EXISTING OIL & CHIP, BITUMINOUS OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
21. CONNECTING OF NEW STORM SEWER TO NEW INLETS SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
22. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATION. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS COSTS OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
23. THE EXCAVATION FOR THE PROJECT IS CLASSIFIED AS EARTH EXCAVATION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS PROVIDED IN THE CONTRACT SPECIFICATIONS. EARTH EXCAVATION SHALL INCLUDE THE REMOVAL OF EARTH AND UNCLASSIFIED MATERIALS.
24. TIE BARS CONNECTING PROPOSED COMBINATION CURB AND GUTTER TO EXIST CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER.

INDEX OF SHEETS

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- 4 PROPOSED TYPICAL SECTIONS
- 5 SCHEDULE OF QUANTITIES
- 6 STORM SEWER SCHEDULE & DETAILS
- 7 - 8 HORIZONTAL CONTROLS, EASEMENTS AND R.O.W.
- 9 ALLEY & ENTRANCE DETAILS AND ALLEY, ENTR. & LOT PAVING SCHEDULE
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- 21 STORM SEWER PLAN AND PROFILE, STA. 115+00 - STA. 118+00 - F.A.P. 9315 (MOORE STREET)
- 22 STORM SEWER PLAN, STA. 115+00 - STA. 118+00 - F.A.P. 9315 (MOORE STREET)
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- 24 STORM SEWER PLAN AND PROFILE, STA. 118+00 - STA. 121+00 - F.A.P. 9315 (MOORE STREET)
- 25 TRANSITION DETAILS - MOORE STREET NORTH TIE-IN
- 26 PERMANENT PAVEMENT MARKINGS
- 27 - 28 STRUCTURE PLANS - DOUBLE CONCRETE BOX CULVERT
- 29 STRUCTURE PLANS - RETAINING WALL
- 30 BORING LOGS
- 31 - 49 CROSS SECTIONS - F.A.P. 9315 (MOORE STREET)

LIST OF STANDARDS

- | | |
|-----------|---------------------------------------------------------------|
| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 280001-02 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420001-06 | PAVEMENT JOINTS |
| 420101-03 | 24' JOINTED PCC PAVEMENT |
| 420106-03 | 36' JOINTED PCC PAVEMENT |
| 420111-01 | PCC PAVEMENT ROUNDOUTS |
| 424001-04 | CURB RAMPS FOR SIDEWALKS |
| 515001-02 | NAME PLATE FOR BRIDGES |
| 602301-01 | INLET - TYPE A |
| 602306-01 | INLET - TYPE B |
| 602601 | PRECAST REINFORCED CONCRETE FLAT SLAB TOP |
| 602701-01 | CAST IRON STEPS |
| 604001-02 | FRAME AND LIDS TYPE 1 |
| 604011-02 | FRAME AND GRATE TYPE 3V |
| 606001-02 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701301-02 | LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS |
| 701311-02 | LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY |
| 701501-03 | URBAN LANE CLOSURE 2L, 2W UNDIVIDED |
| 702001-06 | TRAFFIC CONTROL DEVICES |
| 720001 | SIGN PANEL MOUNTING DETAILS |
| 720006 | SIGN PANEL ERECTION DETAILS |
| 720011 | METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS |
| 729001 | APPLICATION OF TYPE A AND B METAL POSTS |
| 780001-01 | TYPICAL PAVEMENT MARKINGS |

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 97264

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS,
 LIST OF STANDARDS
 AND
 GENERAL NOTES**

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

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 PLOTTED: 10/24/2005

H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN - MONROE COUNTY	
			FEDERAL 75% CITY 25%	TOTAL QUANTITY
				J000-2A
20200100	EARTH EXCAVATION	CU. YD.		1268
20400800	FURNISHED EXCAVATION	CU. YD.		421
20900110	POROUS GRANULAR BACKFILL	CU. YD.		1477
20900330	GRANULAR BACKFILL	TON		81
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO. YD.		1083
25000110	SEEDING, CLASS 1A	ACRE		0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND		27
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND		27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND		27
25000700	AGRICULTURAL GROUND LIMESTONE	TON		0.6
25101005	HEAVY DUTY EXCELSIOR BLANKET	SO. YD.		1225
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND		30
28000400	PERIMETER EROSION BARRIER	FOOT		158
28100705	STONE DUMPED RIPRAP, CLASS A3	SO. YD.		813
28200200	FILTER FABRIC	SO. YD.		813
31100300	SUBBASE GRANULAR MATERIAL, TYPE A, 4"	SO. YD.		2573
31100700	SUBBASE GRANULAR MATERIAL, TYPE A, 8"	SO. YD.		225
40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SO. YD.		754
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON		281
40600300	AGGREGATE (PRIME COAT)	TON		2
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SO. YD.		1571
42001300	PROTECTIVE COAT	SO. YD.		2175
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO. YD.		203
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO. FT.		1743
42400800	DETECTABLE WARNINGS	SO. FT.		150
44000100	PAVEMENT REMOVAL	SO. YD.		252
44000600	SIDEWALK REMOVAL	SO. FT.		85
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH		1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH		1
50300225	CONCRETE STRUCTURES	CU. YD.		27.4
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		2070
51500100	NAME PLATES	EACH		1
54000900	BOX CULVERT END SECTIONS, SPECIAL	EACH		1
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH		3
54021006	PRECAST CONCRETE BOX CULVERT 10'x6' (M273)	FOOT		376.2
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT		54
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT		64
550B0380	STORM SEWERS, CLASS B, TYPE 2 18"	FOOT		12
55100500	STORM SEWER REMOVAL 12"	FOOT		51
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SO. YD.		96
60100915	PIPE DRAINS 6"	FOOT		50
60101805	PIPE DRAINS 8" (SPECIAL)	FOOT		8
60238700	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH		1
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH		2
60240385	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	EACH		2
60500060	REMOVING INLETS	EACH		1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT		744
67100100	MOBILIZATION	L. SUM		1
70101700	TRAFFIC CONTROL AND PROTECTION	L. SUM		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L. SUM		1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT		500
78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT		1488
78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT		63
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON		360
Z0073500	TEMPORARY SUPPORT SYSTEM	L. SUM		1
X0321865	ANTI-GRAFFITI PROTECTION SYSTEM	SO. FT.		2746
X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT		24
X0323410	TRIANGULAR SILT DIKES	EACH		4
X0330200	SANITARY MANHOLES TO BE ADJUSTED	EACH		3
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON		76
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON		236
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH		8
X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH		2
XX006534	SANITARY SEWER, PVC, 10" IN 16" CASING PIPE	L. SUM		1

* SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

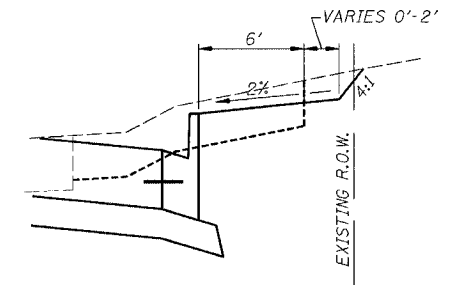
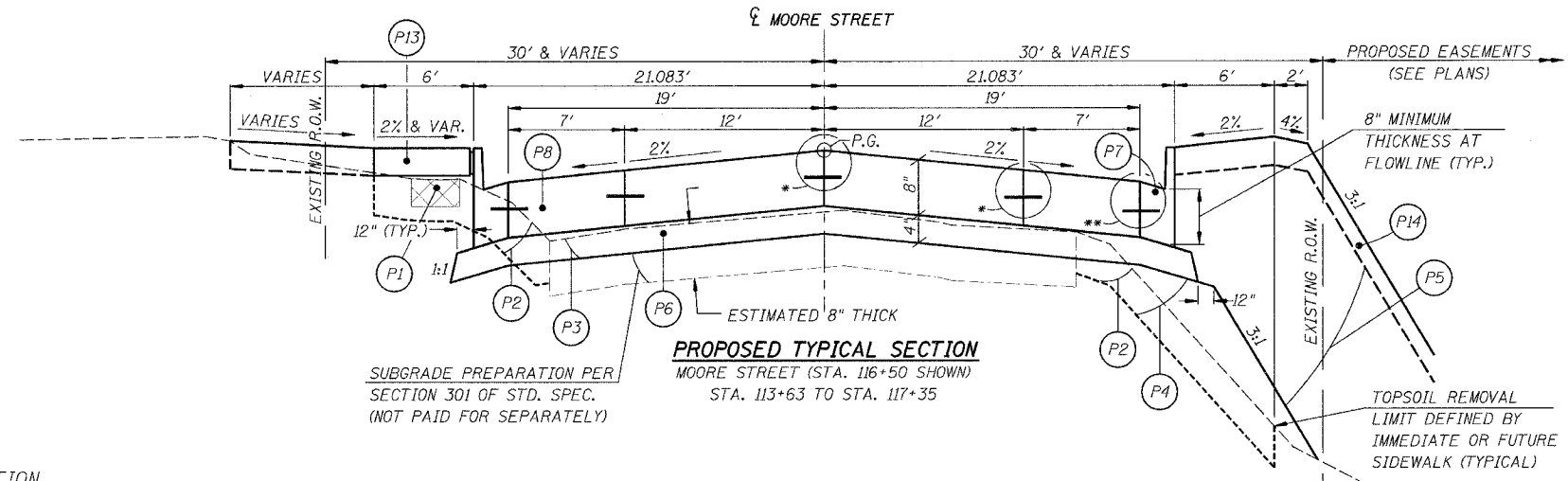
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 PLOTTED: 8/24/18

H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 97264



PAVEMENT DESIGN INFORMATION

(IN ACCORDANCE WITH IDOT LOCAL ROADS, MECHANISTIC-BASED PAVEMENT DESIGN PROCEDURES FOR RIGID PAVEMENT & BLR #95-11)

STRUCTURAL DESIGN TRAFFIC:
DESIGN YEAR: 2015
DESIGN YEAR ADT: 4290
94.2% P.V., 4.7% S.U., 1.1% M.U.

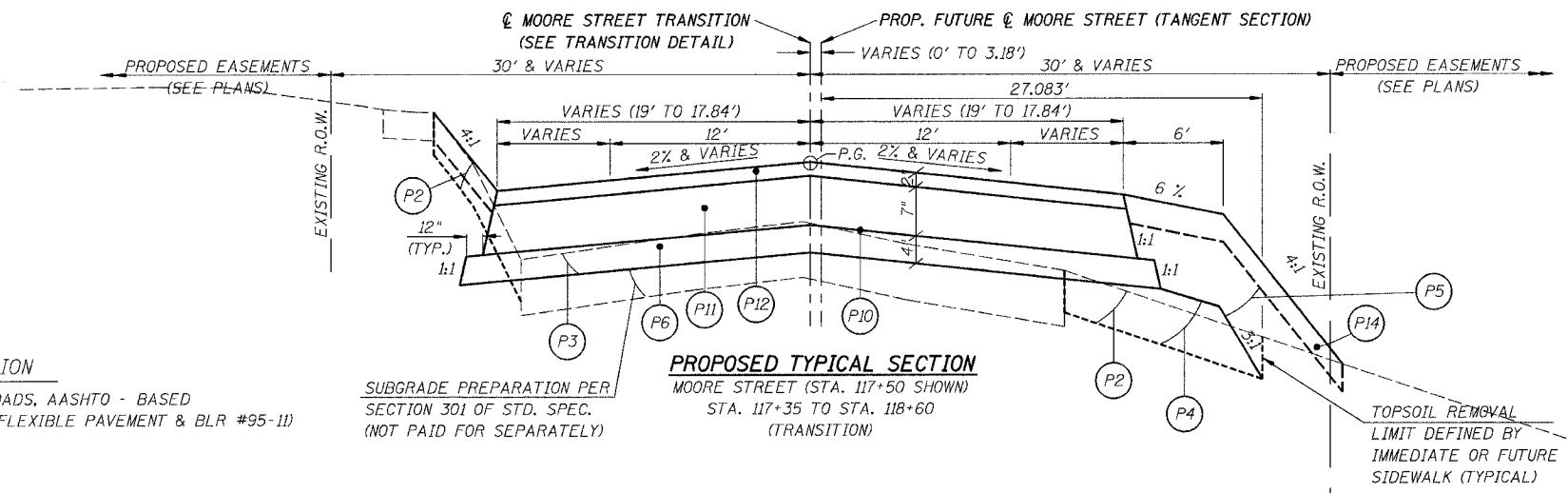
ROAD/STREET CLASSIFICATION: CLASS II
TRAFFIC FACTOR = 0.55
SUBGRADE SUPPORT RATING: POOR
PAVEMENT STRUCTURE MATERIALS: 8" NON-REINFORCED JOINTED P.C.C. PAVEMENT ON 4" AGGREGATE SUB-BASE, 15' MAXIMUM JOINT SPACING

PROPOSED TYPICAL SECTION LEGEND

- (P1) PAVEMENT REMOVAL, SIDEWALK REMOVAL, AND OTHER REMOVALS DENOTED ELSEWHERE IN THE PLANS
- (P2) TOPSOIL REMOVAL, 6" (NOT A PAY ITEM. SEE EARTHWORK SCHEDULE.)
- (P3) EARTH EXCAVATION (EXIST. OIL AND CHIP PAVT. IN SOME AREAS. SEE EARTHWORK SCHEDULE.)
- (P4) EMBANKMENT (NOT A PAY ITEM. SHOWING PLACEMENT FOR CURB INSTALLATION IN FILL SECTIONS.)
- (P5) EMBANKMENT (NOT A PAY ITEM. INCL. FURNISHED EXCAV. SEE E. WORK SCHED.)
- (P6) SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (P7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (P8) PORTLAND CEMENT CONCRETE PAVEMENT, 8" (JOINTED)
- (P9) SUBBASE GRANULAR MATERIAL, TYPE A, 8"
- (P10) BITUMINOUS MATERIALS (PRIME COAT) + AGGREGATE (PRIME COAT)
- (P11) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50
- (P12) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50
- (P13) PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- (P14) TOPSOIL FURNISH AND PLACE, 4"

* NO. 6 BARS, EPOXY-COATED, 30" LONG, AT 30" CENTERS (TYPICAL) "SAWED LONGITUDINAL JOINT" PER IDOT HWY. STD. 420001. NOTE THAT IF ADJOINING PANELS ARE POURED IN THE SAME POUR, THE JOINT DOES NOT NEED TO BE SAWN AFTER PLACEMENT.

** NO. 6 BARS, EPOXY-COATED, 30" LONG, AT 24" CENTERS (TYPICAL) IF CURB AND GUTTER IS POURED MONOLITHICALLY WITH ADJOINING PAVEMENT, THE GUTTER PAN MUST BE 6% PER IDOT HWY. STD. 606001. TIE BARS CANNOT BE OMITTED W/MONOLITHIC POUR. THE EDGE OF PAVEMENT MUST BE SAWN AND SEALED, PER IDOT HWY. STD. 420001'S "SAWED LONGITUDINAL JOINT", IF CURB IS POURED MONOLITHICALLY. IF CURB IS POURED SEPARATE, BAR MUST STILL BE PLACED, BUT SAWN AND SEALED JOINT IS NOT REQUIRED.



BITUMINOUS MIXTURE - CONTROL TABLE

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX.)	15%	25%
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5, IL-12.5	IL-19.0
FRICTION AGGREGATE	MIXTURE C	

PAVEMENT DESIGN INFORMATION

(IN ACCORDANCE WITH IDOT LOCAL ROADS, AASHTO - BASED PAVEMENT DESIGN PROCEDURES FOR FLEXIBLE PAVEMENT & BLR #95-11)

STRUCTURAL DESIGN TRAFFIC:
DESIGN YEAR: 2015
DESIGN YEAR ADT: 4290
94.2% P.V., 4.7% S.U., 1.1% M.U.

ROAD/STREET CLASSIFICATION: CLASS II
TRAFFIC FACTOR = 0.41
SUBGRADE SUPPORT RATING: POOR
STRUCTURAL NUMBER, D_f = 3.6

PAVEMENT STRUCTURE MATERIALS:
SURFACE COURSE TYPE: BITUMINOUS; a1 = 0.4
BASE COURSE TYPE: BITUMINOUS; a2 = 0.33
SUBBASE TYPE: AGGREGATE (CRUSHED); a3 = 0.14

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

CADD FILE: 4690/FBhp-pr1.dgn Aug. 2004 crw
PLOTTER: 10/21/2005

H.M. & G. INC. 4690

EARTHWORK SCHEDULE

LOCATION	1	2	3	4	5	6*	7	8	9	10*	11	12	13*
	TOPSOIL REMOVAL, 6"	TOPSOIL REMOVAL, 6" x SHRINKAGE FACTOR	EARTH EXCAVATION (ESTIMATE OF UNSUITABLE SOIL)	EARTH EXCAVATION	EARTH EX. x SHRINKAGE FACTOR	EARTH EXCAVATION TOTAL	EMBANKMENT P4	BALANCE (+) WASTE (-) BORROW	EMBANKMENT P5	TOPSOIL FURNISH & PLACE, 4"	TOPSOIL FURNISH & PLACE, 4"	BALANCE TOPSOIL (+) WASTE (-) BORROW	FURNISHED EXCAVATION (BALANCE)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	CU. YD.	CU. YD.	CU. YD.
MOORE STREET STA. 113+63 TO STA. 118+60	266	200	598	404	303	1268	277	26	527	1083	120	80	421
TOTALS:	266	200	598	404	303	1268	277	26	527	1083	120	80	421

NOTES:

INCLUDES ENTRANCE EARTHWORK.

* = PAY ITEM

COLUMN 1 = ESTIMATED FROM SOIL BORINGS. THIS MATERIAL CAN BE USED FOR "TOPSOIL FURNISH AND PLACE, 4" INCLUDED IN "EARTH EXCAVATION" PAY ITEM.

COLUMN 2 = COL. 1 x 0.75. FACTOR APPLIED TO CONSERVATIVELY ESTIMATE MATERIAL THAT CAN BE USED FOR "TOPSOIL FURNISH AND PLACE, 4" AND EMBANKMENT P5.

COLUMN 3 = THIS MATERIAL IS EXISTING BITUMINOUS SURFACE TREATMENT (OIL & CHIP) THAT IS TO BE REMOVED AND THAT CANNOT BE PLACE IN EMBANKMENT AND TOPSOIL AREAS. THE CITY OF WATERLOO WILL OWN THIS MATERIAL AND THE CONTRACTOR IS REQUIRED TO HAUL THIS TO THE CITY STOCKPILE.

COLUMN 4 = THIS MATERIAL IS USABLE MATERIAL THAT CAN BE PLACED IN EMBANKMENT P4 AND P5.

COLUMN 5 = COLUMN 4 x 0.75. FACTOR APPLIED TO CONSERVATIVELY ESTIMATE MATERIAL THAT CAN BE USED IN EMBANKMENT P4 AND P5.

COLUMN 6* = COLUMN 1 + COLUMN 3 + COLUMN 4.

COLUMN 7 = THIS MATERIAL CAN ONLY BE "EARTH EXCAVATION" MATERIAL FROM COLUMN 5.

COLUMN 8 = COLUMN 5 - COLUMN 7.

COLUMN 9 = THIS MATERIAL CAN BE "EARTH EXCAVATION" FROM COLUMN 5 AND "TOPSOIL REMOVAL, 6" FROM COLUMN 2.

COLUMN 10* = MATERIAL FROM COLUMN 2.

COLUMN 11 = COLUMN 10 CONVERTED TO CUBIC YARDS.

COLUMN 12 = COLUMN 2 - COLUMN 11. THIS MATERIAL CAN BE USED IN EMBANKMENT P5.

COLUMN 13* = COLUMN 9 - COLUMN 12 - COLUMN 8.

SEEDING AND EROSION CONTROL

LOCATION	SEEDING CLASS 1A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	HEAVY DUTY EXCELSIOR BLANKET	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDINGS	TRIANGULAR SILT DIKE
	ACRE	POUND	POUND	POUND	TON	SQ. YD.	FOOT	POUND	EACH
MOORE STREET STA. 113+63 - STA. 118+60	0.3	27	27	27	0.6	1225		30	
LT. STA. 113+75 - STA. 114+81.3							146		
LT. STA. 114+81.3 - STA. 115+02.7									4
LT. STA. 115+02.7 - STA. 115+11.4							12		
TOTALS	0.3	27	27	27	0.6	1225	158	30	4

PAVEMENT MARKINGS

LOCATION	TYPE	POLYUREA			PAINT	
		4" YELLOW FOOT	4" WHITE FOOT	6" WHITE FOOT	4" YELLOW FOOT	4" WHITE FOOT
MOORE STREET STA. 113+63 - STA. 117+35	YELLOW - CENTERLINE - NO PASSING	744.0				
	WHITE - EDGE LINES		744.0			
	WHITE - PARKING STALLS			63.0		
STA. 117+35 - STA. 118+60	YELLOW - CENTERLINE - NO PASSING				250.0	
	WHITE - EDGE LINES					250.0
TOTALS		744	744	63	250	250
		1488			500	

PAVING SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE A, 4" SQ. YD.	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED) SQ. YD.	PROTECTIVE COAT SQ. YD.	BITUMINOUS MATERIALS (PRIME COAT) (GALLON)	BIT. CONC. SURFACE CSE., SUPERPAVE MIX. "C", N50 (2") (TON)	BITUMINOUS CONCRETE BINDER CSE., SUPERPAVE IL-19.0, N50 (7") (TON)
MOORE STREET STA. 113+63 - STA. 117+35	1825.7	1570.7	-	-	-	-
STA. 117+35 - STA. 118+60	538.8	-	-	199.2	57.4	205.1
TOTALS	2365	1571	1571	199	57	205

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

SIDEWALK REMOVAL

LOCATION	SQ. FT.
MOORE STREET STA. 117+26.14 - STA. 117+50, LT.	73.0
STA. 117+27.68, LT.	12.0
TOTAL	85

COMBINATION CONCRETE CURB AND GUTTER

LOCATION	COMBINATION CONCRETE CURB & GUTTER TYPE B - 6.18	* PROTECTIVE COAT
	FOOT	SQ. YD.
MOORE STREET LT. STA. 113+63 - STA. 117+35	387.0	-
RT. STA. 113+63 - STA. 117+35	357.0	-
TOTALS	744	207

* TOTAL CURB SURFACE AREA

PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH

LOCATION	SQ. FT.	* PROTECTIVE COAT	DETECTABLE WARNINGS
		SQ. YD.	SQ. FT.
MOORE STREET STA. 113+63.00 - STA. 114+95.48, LT	841.5	-	25.0
STA. 115+47.61 - STA. 115+72.92, LT	161.6	-	50.0
STA. 115+92.54 - STA. 116+04.07, LT	73.9	-	50.0
STA. 116+34.90 - STA. 117+35.00, LT	599.6	-	25.0
STA. 117+35.00 - STA. 117+50.00, LT	66.6	-	-
TOTAL	1743	194	150

* TOTAL SIDEWALK AREA x 1/9

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PLOTTED: 10/24/2005

11/18 & G. MC. 4690

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE
DATE

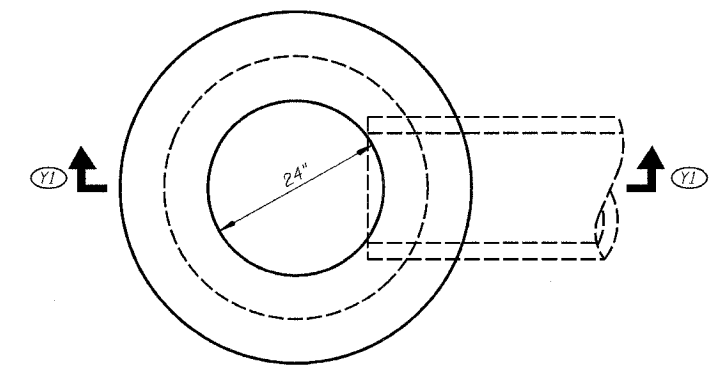
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CHECKED BY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

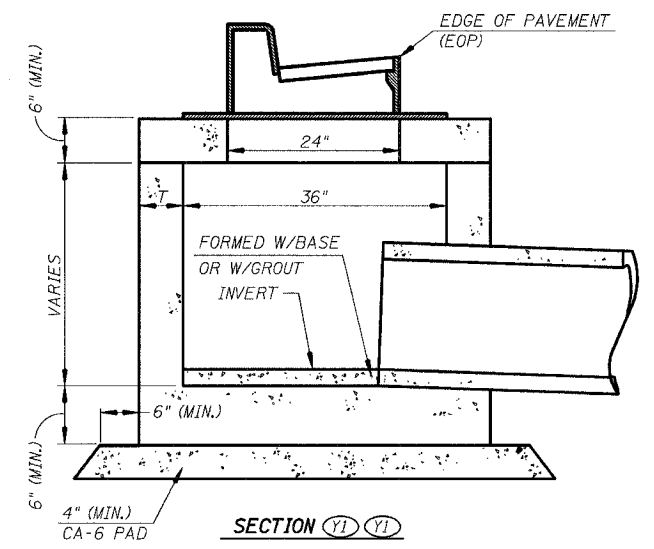
STORM SEWER SCHEDULE

LOCATION	STA - STA	*GRANULAR BACKFILL TON	STORM SEWER REMOVAL 12 INCH FOOT	REMOVING INLETS EACH	SANITARY MANHOLES TO BE ADJUSTED EACH	STORM SEWERS, CLASS B			STORM SEWER WATERMAIN REQUIREMENTS 12 INCH FOOT	INLETS, TYPE A		INLETS, TYPE B			8" PIPE DRAIN W/8" RISER CONN. FOOT
						TYPE 1 12 INCH FOOT	TYPE 2 12 INCH FOOT	18 INCH FOOT		TYPE 3V F. & G.	SPECIAL F. & G.	TYPE 1 FR. & CL. LID EACH	TYPE 3V F. & G.	SPECIAL F. & G.	
MOORE STREET															
MR-19 TO MR-20	RT. 113+75 - 114+25	20.7				45.8				1				1	
ML-3 TO PCBC 7'x4'	LT. 114+17	10.9					10.9						1		
MR-20 TO DBL PCBC 10'x6'	RT. 114+25	14.6					21.8								
ML-4 TO DBL PCBC 10'x6'	LT. 114+45, 28, 1162'				1										
MMHR-1 TO DBL PCBC 10'x6'	RT. TO BE SET IN FIELD	19.3					22.8					1			
MR-21 TO DBL PCBC 10'x6'	RT. 114+56.75									1					
ML-5 TO DBL PCBC 10'x6'	RT. 114+73.85 - 114+92.17	50.5													
ML-6 TO DBL PCBC 10'x6'	LT. 114+75									1					
ML-7 TO DBL PCBC 10'x6'	LT. 114+78.42									1					
MR-22 TO DBL PCBC 10'x6'	LT. 114+83.64					2.4				1					
MR-23 TO DBL PCBC 10'x6'	RT. 114+75.19									1					
MR-24 TO MR-25	RT. 114+92.46, 57.94'			1											
MR-25 TO DBL PCBC 10'x6'	RT. 114+96.02					2.0				1					
MMHR-2 TO DBL PCBC 10'x6'	RT. 115+00	2.9				3.0							1		8.0
MR-26 TO DBL PCBC 10'x6'	LT. 115+59.97, 0.55'				1										
	LT. 116+00	1.4						23.9		1					
	LT. 117+70.59, 2.83'				1										
TOTALS:		81	51	1	3	54	64	12	24	8	1	2	2	2	8

* PLAN CALL OUTS SHOW CUBIC YARD QUANTITY AT EACH LOCATION. TONNAGE SHOWN HERE IS FOR CONTRACTOR'S INFORMATION ONLY (BASED ON 2.05 TONS/CCU. YD.)



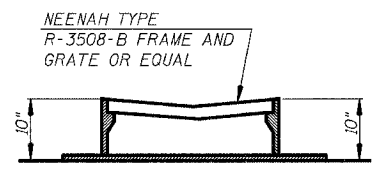
PLAN



SECTION Y1-Y1

**INLET, TYPE B
DETAILS**

(CONTRACTOR MAY OPT TO USE THIS DETAIL TO MODIFY STANDARD 602306 OR STANDARD 602306 ITSELF, WHEN THE DEPTH IS ADEQUATE FOR A CORBEL)



**SPECIAL FRAME & GRATE
DETAILS**

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PLOTTED: 10/24/2005

H.M. & G., NO. 4690

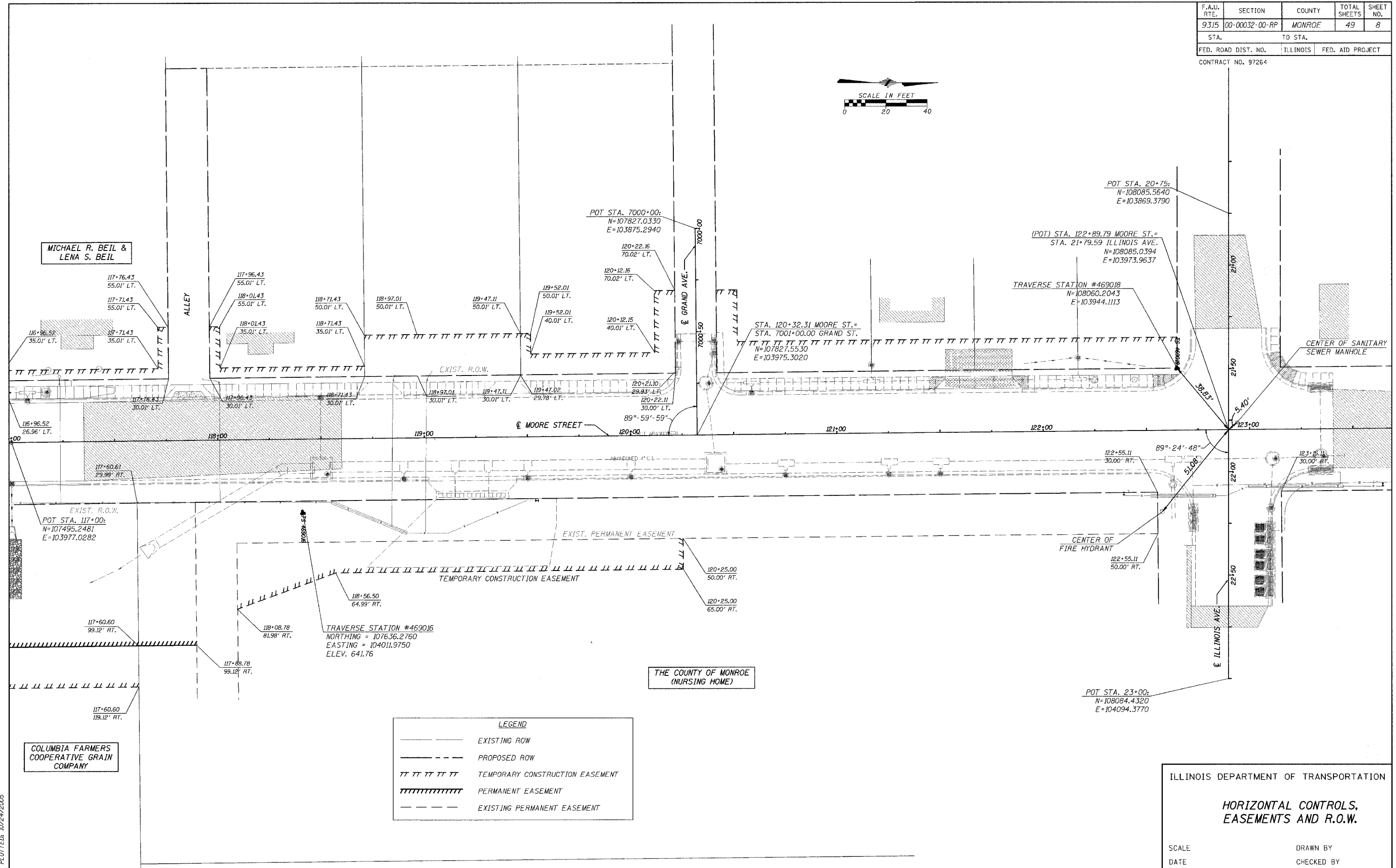
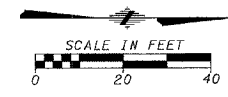
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM SEWER
SCHEDULE & DETAILS**

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 97264



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PLOTTED: 10/24/2005

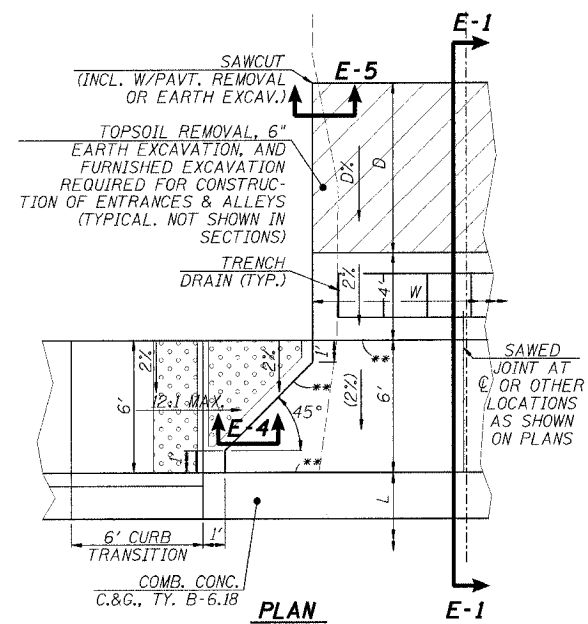
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ILLINOIS DEPARTMENT OF TRANSPORTATION

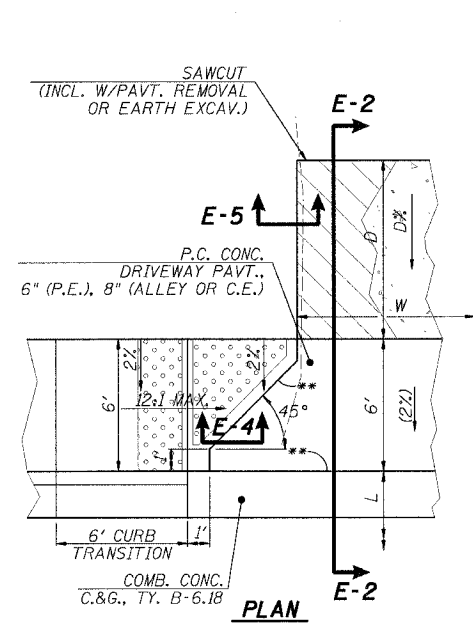
HORIZONTAL CONTROLS, EASEMENTS AND R.O.W.

SCALE _____ DATE _____ DRAWN BY _____ CHECKED BY _____

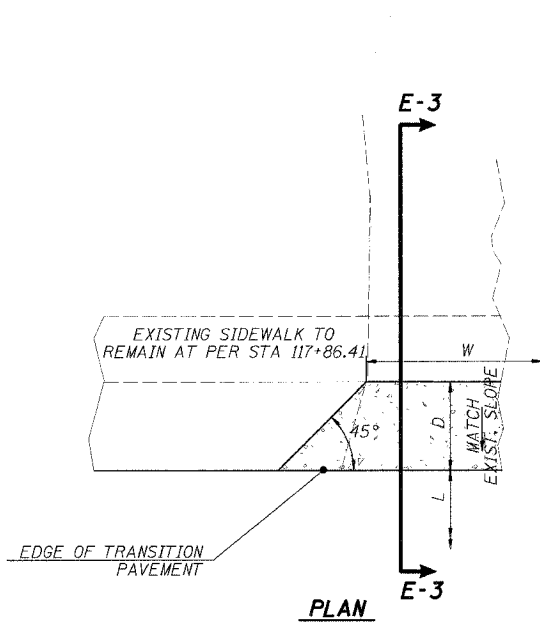
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



PLAN E-1
(SHOWING NO GRASS BETWEEN CURB & S. WALK, BITUMINOUS TRANSITION, AND TRENCH DRAIN)

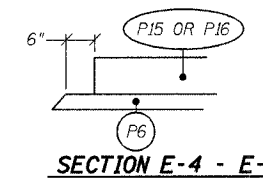


PLAN E-2
(SHOWING NO GRASS BETWEEN CURB & S. WALK, AND BITUMINOUS OR AGGREGATE TRANSITION)

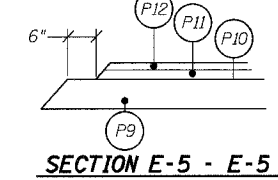


PLAN E-3
(SHOWING AGGREGATE TRANSITIONS FOR ENTRANCES ALONG MOORE STREET BITUMINOUS TRANSITIONS)

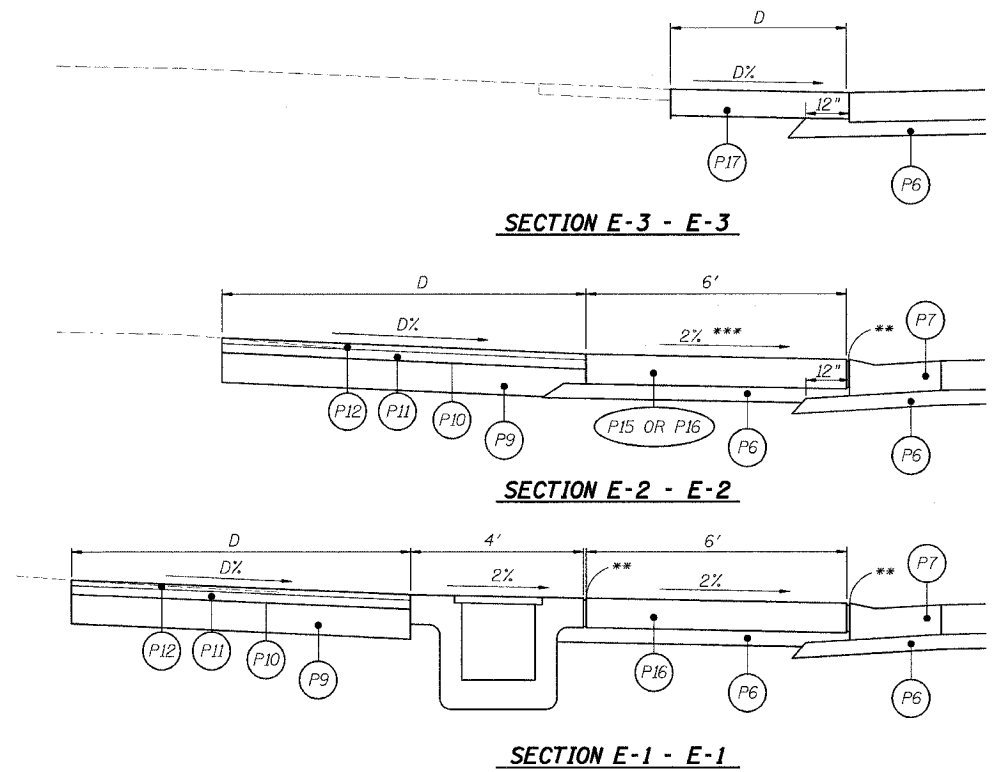
A.D.A. TRUNCATED DOMES IN P.C.C. SIDEWALK PER APPLICABLE HIGHWAY STANDARD



SECTION E-4 - E-4



SECTION E-5 - E-5



SECTION LEGEND

- (P6) SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- (P7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (P9) SUBBASE GRANULAR MATERIAL, TYPE A, 8"
- (P10) BITUMINOUS MATERIALS (PRIME COAT)
- (P11) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50
- (P12) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50
- (P15) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6" (PRIVATE)
- (P16) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8" (COMMERCIAL)
- (P17) AGGREGATE SURFACE COURSE, TYPE A 8"
- * INCLUDES PAVEMENT AROUND INLET, IF PRESENT
- ** 1" EXPANSION JOINTS PER STANDARD SPECIFICATIONS
- *** SLOPE AWAY FROM PAVEMENT WHEN DX IS NEGATIVE

ENTRANCE SCHEDULE

LOCATION	TYPE	L (FT)	D (FT)	DX (%)	W (FT)	P.C. CONC. DRIVEWAY PAVEMENT, 8"	PROTECTIVE COAT	SUB-BASE GRAN. MATERIAL, TYPE A, 4"	BITUMINOUS MATERIALS (PRIME COAT)	BIT. CONC. SURFACE CSE., SUPERPAVE MIX. "C", N50 (1-1/2")	BITUMINOUS CONCRETE BINDER CSE., SUPERPAVE IL-19.0, N50 (2-1/2")	SUB-BASE GRAN. MATERIAL, TYPE A, 8"	AGGREGATE SURFACE COURSE TYPE A, 8"	PAVEMENT REMOVAL
		(FT)	(FT)	(%)	(FT)	(SY)	(SY)	(SY)	(GALLON)	(TON)	(TON)	(SY)	(SY)	(SY)
FAU 9315 (MOORE STREET)														
RT. STA. 114+16.63	C.E.	21.08	39' & VARIES	15.6% & VARIES	51.10	54.1	-	55.2	-	-	-	-	-	-
RT. STA. 115+27.63	C.E.	21.08	37' & VARIES	5.0% & VARIES	61.60	64.3	-	65.5	41.5	9.1	15.4	114.7	-	90.5
RT. STA. 113+85 - STA. 114+99	LOT	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-	-	377.9	-
(AGGREGATE BEHIND PCC)														
RT. STA. 115+21 - STA. 115+80	LOT	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-	-	163.6	-
(AGGREGATE BEHIND PCC)														
LT. STA. 115+21.74	C.E.	21.08	27.50	-8.7% & VARIES	52.10	37.0	-	37.9	-	-	-	-	-	-
LT. STA. 115+81.94	C.E.	21.08	14.70	-2.0% & VARIES	16.80	13.9	-	14.8	-	-	-	-	-	-
LT. STA. 114+97.30 - STA. 115+91.51	LOT	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-	-	206.1	-
(AGGREGATE BEHIND PCC)														
LT. STA. 116+18.05	C.E.	21.08	8.80	0.5%	27.80	33.1	-	34.3	10.3	2.3	3.8	28.5	-	161.0
LT. STA. 116+33.21 - STA. 116+91	LOT	N.A.	N.A.	N.A.	N.A.	-	-	-	30.2	6.7	11.2	81.8	-	-
LT. STA. 117+86.41	P.E.	19.83	4.00	15.2%	12.50	-	-	-	-	-	-	-	6.4	-
TOTALS						203	203	208	82	19	31	225	754	252

NOTE THAT "LOT" INDICATES PARKING LOTS ADJACENT TO THE ENTRANCES - LOCATIONS ARE FURTHER IDENTIFIED ON THE PLAN AND PROFILE SHEETS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

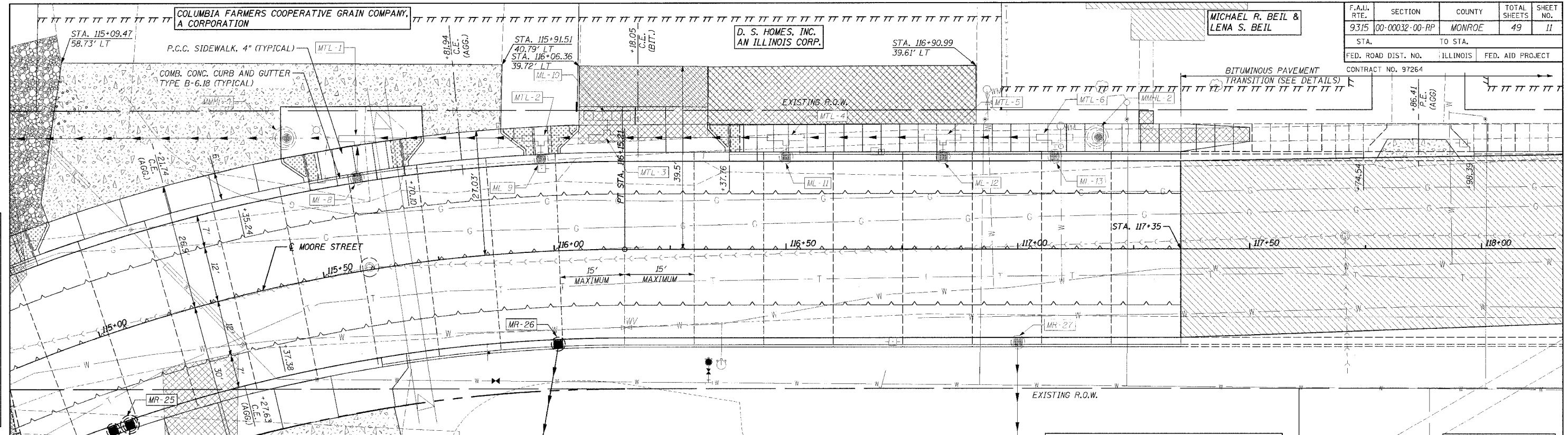
ALLEY & ENTRANCE DETAILS AND ALLEY, ENTRANCE, & LOT PAVING SCHEDULE

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

CADD FILE: /M690/FBENTR-1.DGN PLOTTED: #DATE#

H.M. & G., INC. 4690

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	11
STA. TO STA.		ILLINOIS		
FED. ROAD DIST. NO.		FED. AID PROJECT		
		CONTRACT NO. 97264		

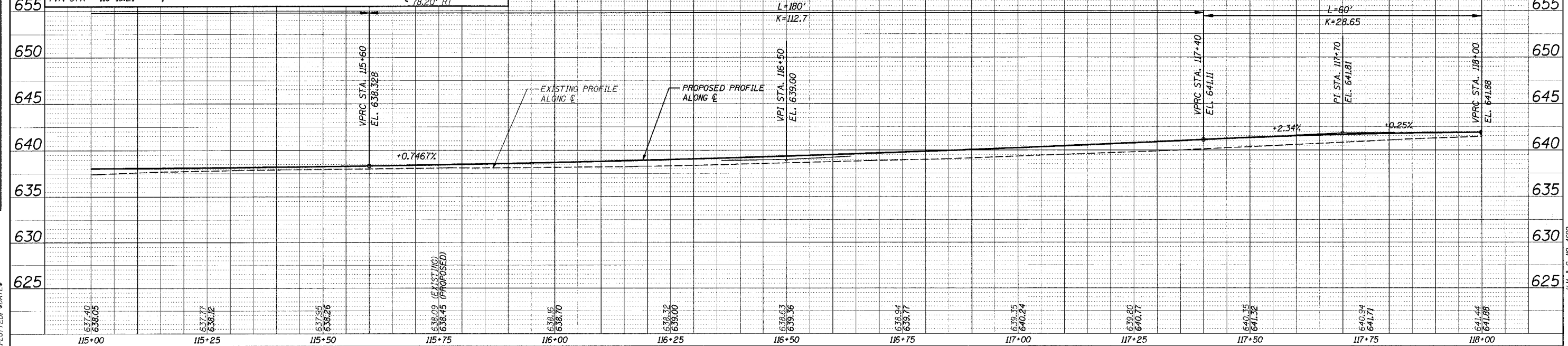


HORIZONTAL CURVE DATA
MOORE STREET

PI STA. = 114+94.82
 $\Delta = 40^\circ 54' 45''$ (RT)
 $D = 16^\circ 13' 52''$
 $R = 353.00'$
 $T = 131.67'$
 $L = 252.06'$
 $E = 23.76'$
 $e =$
 $T.R. =$
 $S.E. =$ NONE
 $P.C. STA = 113+63.14$
 $P.T. STA = 116+15.21$

LEGEND

	AGGREGATE SURFACE COURSE, TY. A, 8"		SAWED CONTRACTION JOINT
	BITUMINOUS SURFACING (SEE ENTRANCE AND ALLEY SCHEDULE)		SAWED LONGITUDINAL JOINT
	SIDEWALK REMOVAL OR PAVEMENT REMOVAL (SEE SCHEDULES)		EXPANSION JOINT
	STRUCTURE REMOVAL		SAWED JOINT WITH NO DOWEL OR TIE BAR PLACEMENT
			TEMPORARY CONSTRUCTION EASEMENT
			PERMANENT DRAINAGE & UTILITY EASEMENT



PLAN

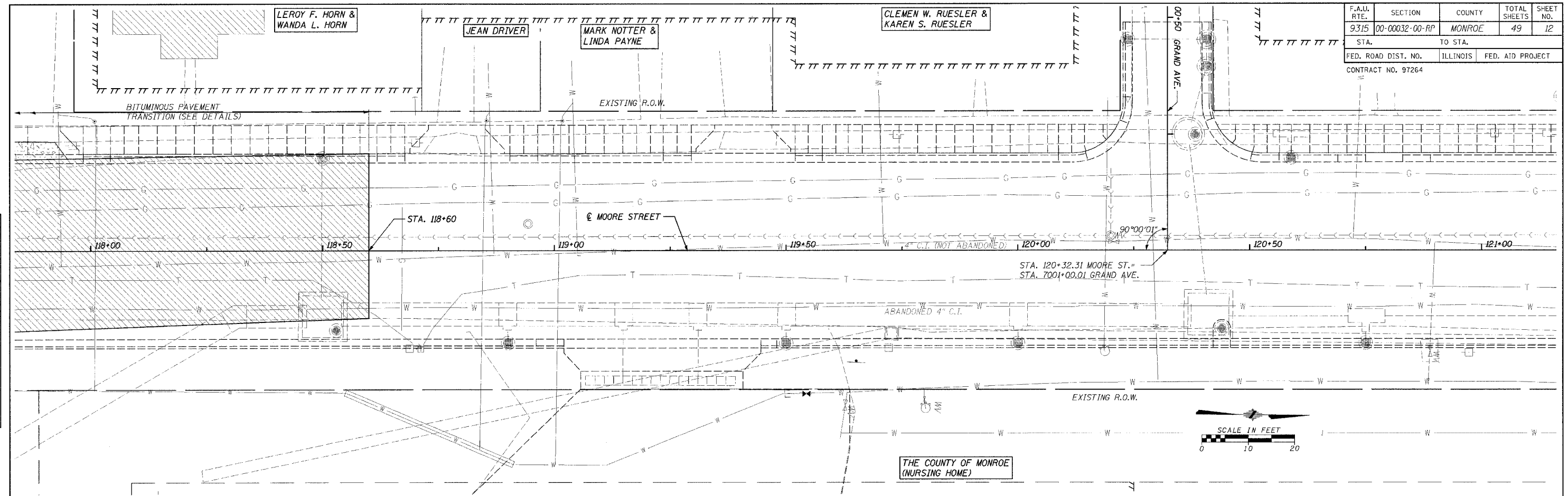
DATE: _____
 BY: _____
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 IN CHARGE: _____

PROFILE

DATE: _____
 BY: _____
 CHECKED: _____
 IN CHARGE: _____

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 PLOTTED: 8/04/18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



PLAN

DATE: _____ BY: _____

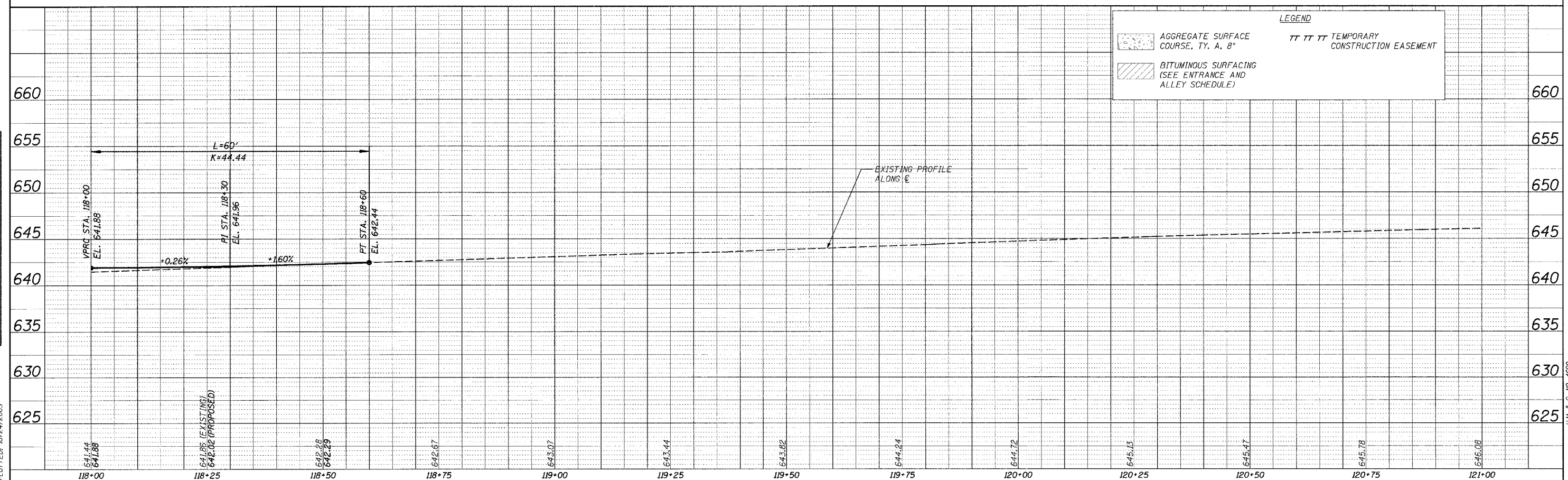
SCALE: _____

NOTE: _____



LEGEND

	AGGREGATE SURFACE COURSE, TY. A, 8"
	BITUMINOUS SURFACING (SEE ENTRANCE AND ALLEY SCHEDULE)
	TEMPORARY CONSTRUCTION EASEMENT



PROFILE

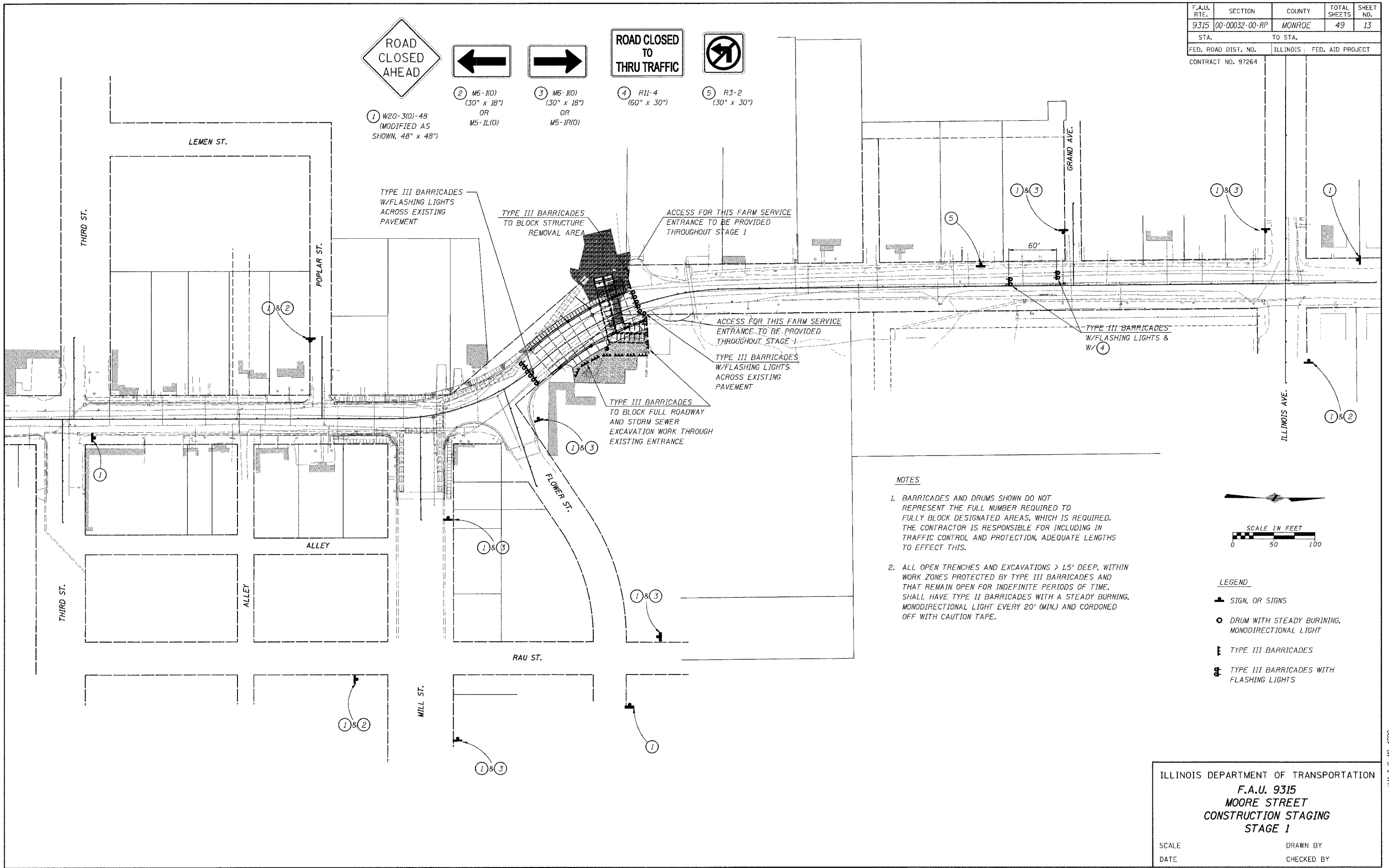
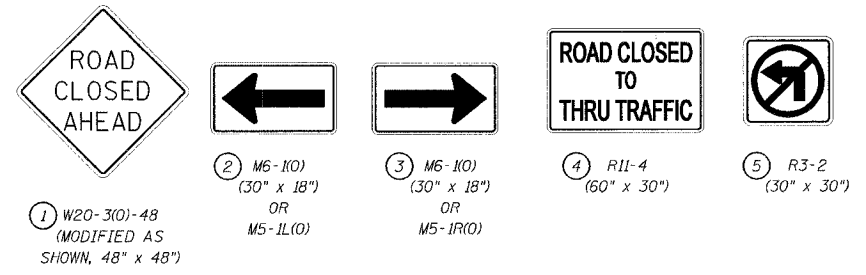
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SCALE: _____

NOTE: _____

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PLOTTED: 10/24/2005

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



NOTES

- BARRICADES AND DRUMS SHOWN DO NOT REPRESENT THE FULL NUMBER REQUIRED TO FULLY BLOCK DESIGNATED AREAS, WHICH IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN TRAFFIC CONTROL AND PROTECTION, ADEQUATE LENGTHS TO EFFECT THIS.
- ALL OPEN TRENCHES AND EXCAVATIONS > 1.5' DEEP, WITHIN WORK ZONES PROTECTED BY TYPE III BARRICADES AND THAT REMAIN OPEN FOR INDEFINITE PERIODS OF TIME, SHALL HAVE TYPE II BARRICADES WITH A STEADY BURNING, MONODIRECTIONAL LIGHT EVERY 20' (MIN.) AND CORDONED OFF WITH CAUTION TAPE.

LEGEND

- SIGN, OR SIGNS
- DRUM WITH STEADY BURNING, MONODIRECTIONAL LIGHT
- TYPE III BARRICADES
- TYPE III BARRICADES WITH FLASHING LIGHTS

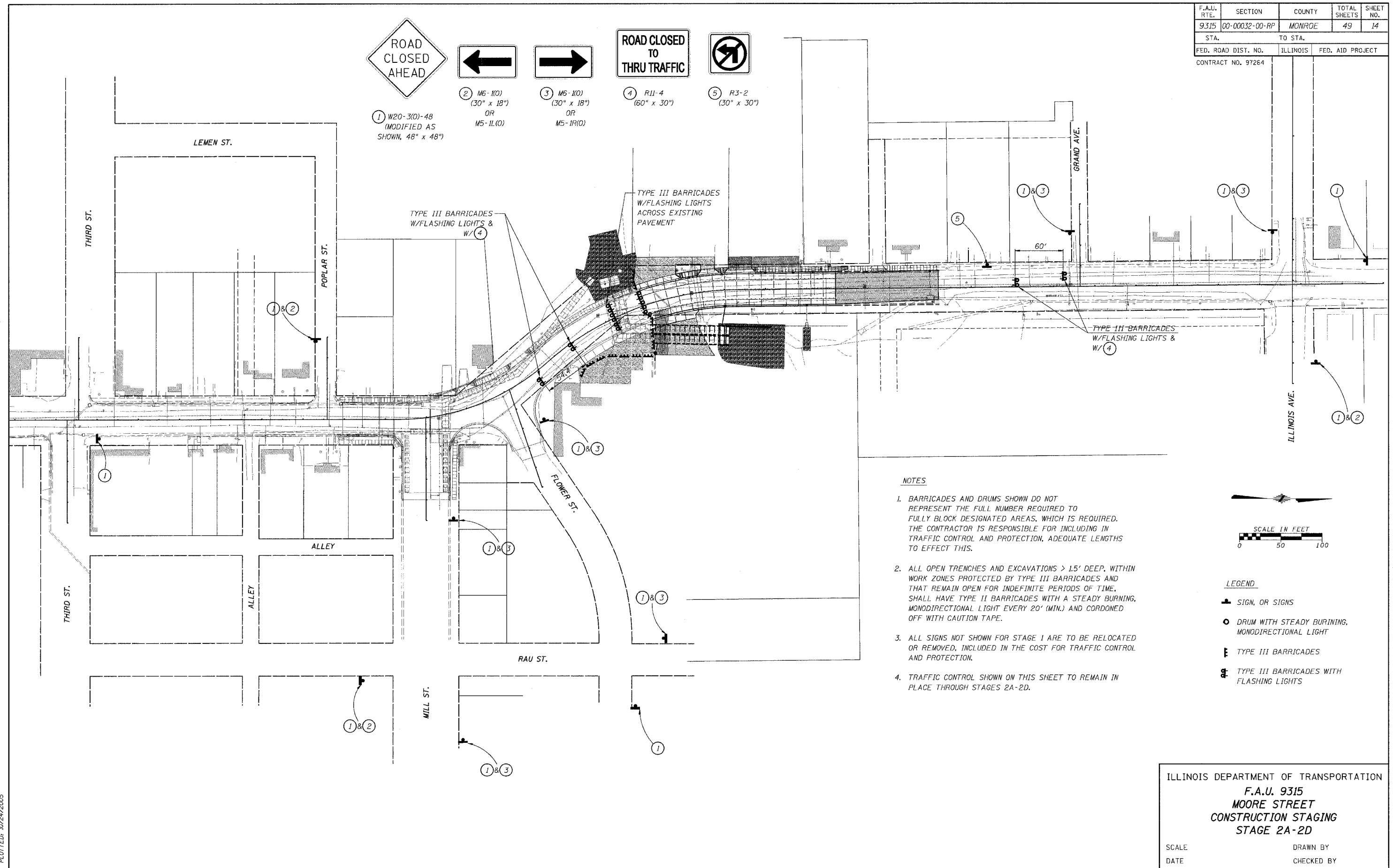
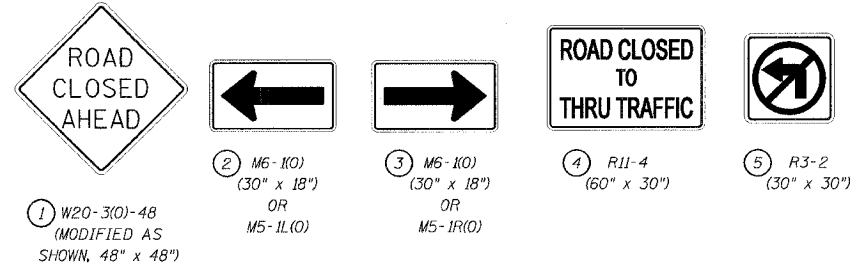
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 9315
MOORE STREET
CONSTRUCTION STAGING
STAGE 1

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

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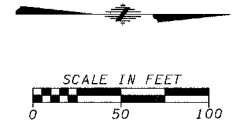
H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



NOTES

1. BARRICADES AND DRUMS SHOWN DO NOT REPRESENT THE FULL NUMBER REQUIRED TO FULLY BLOCK DESIGNATED AREAS, WHICH IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN TRAFFIC CONTROL AND PROTECTION, ADEQUATE LENGTHS TO EFFECT THIS.
2. ALL OPEN TRENCHES AND EXCAVATIONS > 1.5' DEEP, WITHIN WORK ZONES PROTECTED BY TYPE III BARRICADES AND THAT REMAIN OPEN FOR INDEFINITE PERIODS OF TIME, SHALL HAVE TYPE II BARRICADES WITH A STEADY BURNING, MONODIRECTIONAL LIGHT EVERY 20' (MIN.) AND CORDONED OFF WITH CAUTION TAPE.
3. ALL SIGNS NOT SHOWN FOR STAGE 1 ARE TO BE RELOCATED OR REMOVED, INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION.
4. TRAFFIC CONTROL SHOWN ON THIS SHEET TO REMAIN IN PLACE THROUGH STAGES 2A-2D.



LEGEND

- ▲ SIGN, OR SIGNS
- DRUM WITH STEADY BURNING, MONODIRECTIONAL LIGHT
- TYPE III BARRICADES
- ⊠ TYPE III BARRICADES WITH FLASHING LIGHTS

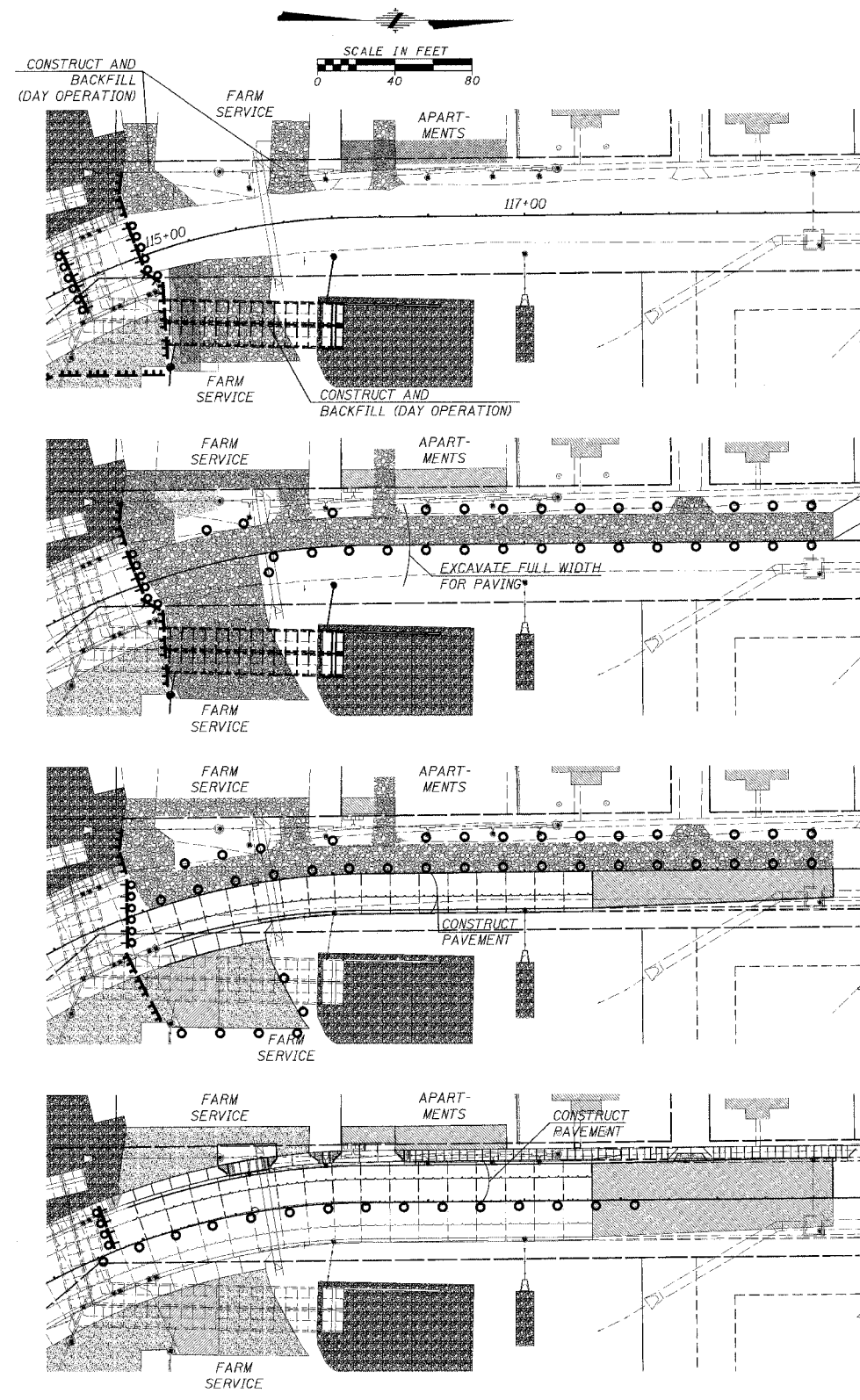
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 9315
MOORE STREET
CONSTRUCTION STAGING
STAGE 2A-2D

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

CADD FILE: 4690/Fbar924690.dgn
PLOTTED: 10/24/2005

H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	15
STA. TO STA.		ILLINOIS		
FED. ROAD DIST. NO.		FED. AID PROJECT		
CONTRACT NO. 97264				

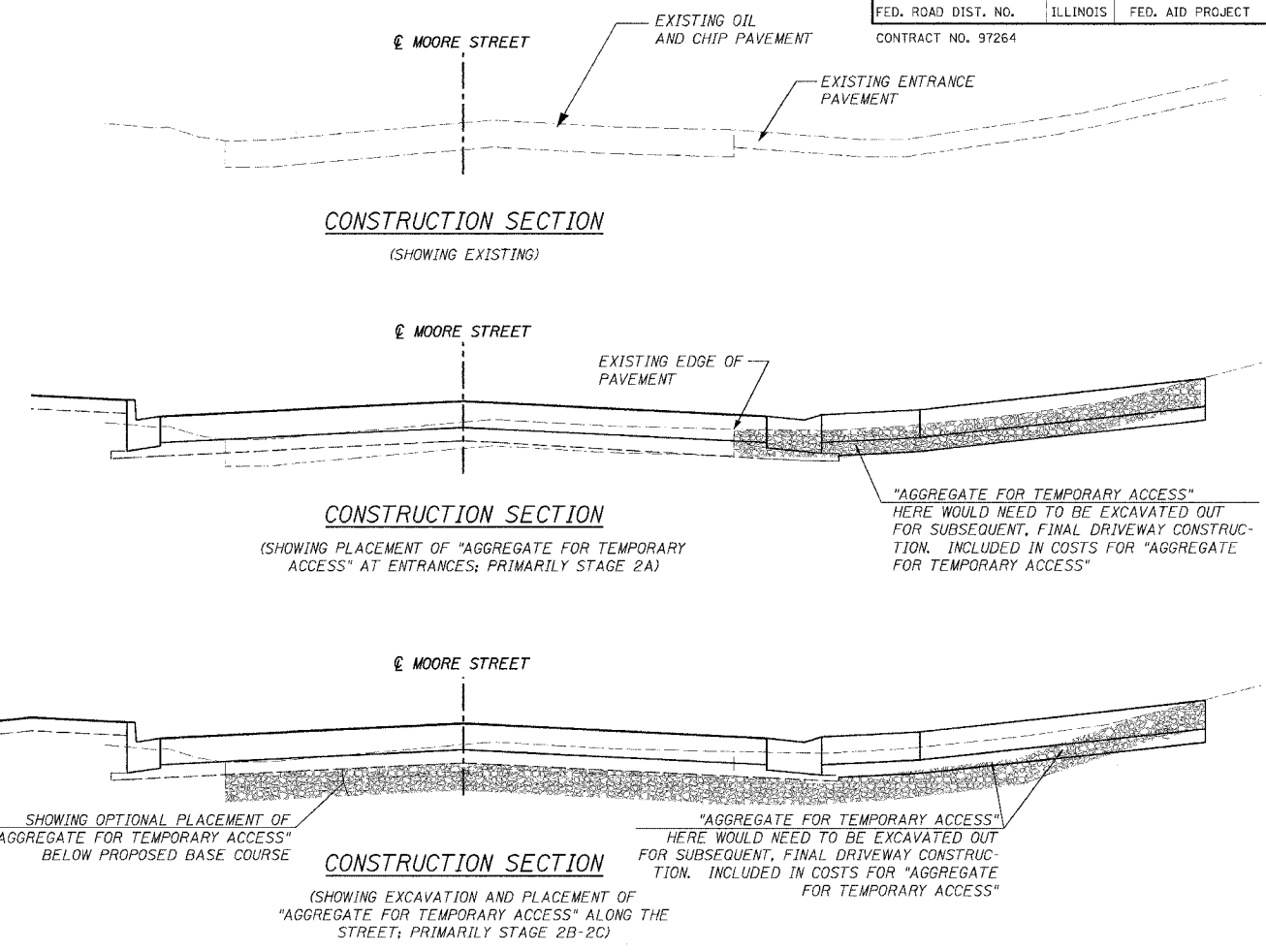


- STAGE 2A**
1. CONTINUE EXCAVATION AND PLACEMENT OF DUAL BOX CULVERTS. THE ENTRANCES TO FARM SERVICE AND APARTMENTS SHALL REMAIN OPEN AT THE END OF EACH DAY WITH "AGGREGATE FOR TEMPORARY ACCESS".
 2. SIMILARLY, STORM SEWER AND UTILITY RELOCATES MAY BE INSTALLED ALONG THE WEST SIDE AND ACROSS MOORE STREET. ALL ENTRANCES SHALL REMAIN OPEN AT THE END OF EACH DAY. NOTE THAT THE EAST FARM SERVICE ENTRANCE MUST BE CONSTRUCTED IN STAGES FOR INSTALLATION OF THE DUAL BOX CULVERTS. NOTE CONSTRUCTION OF TRENCH DRAIN AT THE APARTMENTS.

- STAGE 2B**
1. THIS STAGE: EXCAVATE AND GRADE SUB-GRADE FROM CURB TO CURB IN PREPARATION OF PAVING WORK.
 2. PLACE "AGGREGATE FOR TEMPORARY ACCESS" ALONG THE WEST SIDE TO ALLOW ACCESS.
 3. CONSTRUCT RETAINING WALL.

- STAGE 2C**
1. THIS STAGE: CONSTRUCT NORTHBOUND PAVEMENT WITH CLOSURE OF FARM SERVICE'S EAST ENTRANCE. TO ALLOW FOR CURING TIME.
 2. COMPLETE FARM SERVICE'S EAST ENTRANCE.

- STAGE 2D**
1. THIS STAGE: CONSTRUCT SOUTHBOUND PAVEMENT. ENTRANCES ON THE WEST SIDE OF MOORE STREET WILL HAVE TO REMAIN CLOSED FOR CURING TIME.
 2. TRAFFIC TO AND FROM FARM SERVICE'S EAST ENTRANCE WILL TRAVEL ON NEW PAVEMENT AND MAY TURN LEFT OR RIGHT.



- LEGEND**
- ▲ SIGN, OR SIGNS
 - DRUM WITH STEADY BURNING, MONODIRECTIONAL LIGHT
 - ⌚ TYPE III BARRICADES
 - ⌚ TYPE III BARRICADES WITH FLASHING LIGHTS
 - AGGREGATE FOR TEMPORARY ACCESS (6" THICK. EACH STAGE SHOWS APPROX. AREAS FOR QUANTITIES. TOTAL QUANTITY LISTED IN SUMMARY OF QUANTITIES INCLUDES THE TOTAL OF EACH STAGE SHOWN)

- NOTES**
1. BARRICADES AND DRUMS SHOWN DO NOT REPRESENT THE FULL NUMBER REQUIRED TO FULLY BLOCK DESIGNATED AREAS, WHICH IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN TRAFFIC CONTROL AND PROTECTION, ADEQUATE LENGTHS TO EFFECT THIS.
 2. ALL OPEN TRENCHES AND EXCAVATIONS > 1.5' DEEP, WITHIN WORK ZONES PROTECTED BY TYPE III BARRICADES AND THAT REMAIN OPEN FOR INDEFINITE PERIODS OF TIME, SHALL HAVE TYPE II BARRICADES WITH A STEADY BURNING, MONODIRECTIONAL LIGHT EVERY 20' (MIN.) AND CORDONED OFF WITH CAUTION TAPE.
 3. THE "CONSTRUCTION SECTIONS", THIS SHEET, SHOW THAT ANY "AGGREGATE FOR TEMPORARY ACCESS" THAT IS NOT BELOW PROP. DRIVEWAY OR MAINLINE PAVEMENT, INCLUDING THE BASE COURSE, MUST BE REMOVED AND CANNOT BE USED AS PROP. BASE COURSE. COSTS FOR THIS REMOVAL WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COSTS FOR "AGGREGATE FOR TEMPORARY ACCESS". THAT "AGGREGATE FOR TEMP. ACCESS" PLACED BELOW PROP. BASE COURSE MAY REMAIN, BUT SHALL BE COMPACTED AND TESTED.

CADD FILE: 4690/FBstrg2-24690.dgn
PLOTTED: \$DATE\$

H.M. & G. INC. 4690

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.U. 9315
MOORE STREET
CONSTRUCTION STAGING
STAGE 2A-2D

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 97264

GENERAL

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10-_____ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

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 Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / 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 time.

Certain items shall be placed as shown in this plan. Other items shall be placed as directed by the Engineer based on situations resulting from type of activities, time of year, and weather conditions.

The Contractor shall place permanent erosion control and seeding within a reasonable amount of time; therefore, reducing areas open to the possibility of erosion. The Engineer will determine if temporary erosion control systems shown in the plan can be deleted, size of proposed ditch checks, proper methods of installation, and if additional temporary erosion controls shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer.

SITE DESCRIPTION

Description of Construction Activity:

- The proposed project consists of constructing portland cement pavement, curb & gutter, sidewalks, storm sewer and appurtenances along Moore Street (FAU 9315). The existing drainage structure across Moore Street will be replaced with a precast double box culvert.
- Soil disturbing activities will include clearing and stockpiling of topsoil, perimeter silt fencing and other erosion and sediment controls, realignment and shaping of ditches, storm sewer installation, placement of aggregate sub-base, concrete and bituminous pavement construction, final grading and other miscellaneous work to complete the improvements.

Intended Sequence of Major Construction Activities:

- Mobilization and Construction Staking
- Install Silt Fences and Temporary Erosion Control Measures
- Install Storm Sewer
- Remove and Stockpile Existing Topsoil
- Pavement Removal and Excavation/Embankment to Designed Subgrade
- Subgrade Compaction + widening for stage traffic
- Culvert Installation
- Do items 1 - 6, again for Stage 2.
- Seed, Mulch, and Fertilize Within 14 Days After Final Grading
- Final Cleanup and Demobilization

Area of Construction Site:

- The total area of the construction site is estimated to be 1 acre in which 1 acre will be disturbed by excavation, grading or other activities. The IDOT-approved Contractor is responsible for the 1 acre.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

- Information on the soils within the site was obtained from SCS County soil map information, and site visits.
- Site maps with drainage patterns and approximate slopes were contained in the hydrologic/hydraulic calculations prepared by the Engineer and submitted to the Illinois Department of Transportation, District Eight.

Drainage Tributaries Receiving Water from this Construction Site:

- Tributaries to Fountain Creek

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

The storm water pollution prevention plan reflects Illinois Environmental Protection Agency and Illinois Soil and Water Conservation District's requirements for storm water management and erosion and sediment control. There are no other applicable local requirements for sediment and erosion site plans (or permits), or storm water management site plans (or permits).

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Stabilization Practices

- Temporary Stabilization
 - Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from construction or other activities which would be detrimental to their maintenance and development.
 - Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - As soon as reasonable access is available to all locations where water drains away from the project, sediment basins, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and as directed by the Engineer.
 - Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded where no construction activities are expected within seven days.
 - Top soil stockpiles, earth stockpiles and disturbed portions of the site where construction activity temporarily ceases for at least twenty-one days shall be temporarily seeded no later than fourteen days from the last construction activity in that area.
 - Temporary erosion control items shall be removed as directed by the Engineer after the item is no longer needed or it is no longer functioning.
- Permanent Stabilization
 - Excavated areas, embankments and all other disturbed portions of the site where construction activity permanently ceases shall be stabilized with permanent seed no later than fourteen days after the last construction activity. This work shall be done in accordance with "Division V - Turfing" of the Standard Specifications.
 - All seeded areas shall be inspected at least one time each seven days and within 24 hours after a rainfall of 0.5" or greater.
 - The project shall be inspected by the Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

Structural Practices

- Perimeter barriers, ditch checks, inlet/pipe protection and/or sediment basins shall be constructed at all locations as indicated in the plans and at any additional location as directed by the Engineer.
- Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.
- Sediment collected during construction by the various temporary erosion control systems shall be disposed of on a regular basis as directed by the Engineer.

Storm Water Management

- Storm water management will be provided by drainage ditches, swales, storm sewers, and catch basins for the site. The areas will be graded to drain and have permanent seeding.

OTHER CONTROLS

Waste Disposal

- Waste Materials - All waste materials will be collected and stored in containers with lids and will be disposed of by a licensed solid waste company. The containers will meet all state and local solid waste management regulations. All trash and construction debris from the site will be deposited in the containers. The containers will be emptied and the trash hauled offsite on an as-needed basis or as directed by the Engineer. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal and a notice stating these practices will be posted in the Contractor's office trailer.
- Hazardous Waste - All hazardous waste materials shall be disposed of in the manner specified by state or local regulations or by the Manufacturer's Material Safety Data Sheet (MSDS). Site personnel will be instructed regarding the correct procedure for hazardous waste disposal.
- Sanitary Waste - All sanitary waste will be collected from any portable units a minimum of once per week by a licensed sanitary waste management contractor, as required by local regulations.

Offsite Vehicle Tracking

- If deemed necessary, a vehicle wash off area with yard hydrants will be provided to help reduce vehicle tracking of sediments. The streets will be swept daily to remove any excess mud, dirt or rock tracked from the site. The Contractor shall provide all measures required by IDOT for accessing public roads by construction vehicles.

TIMING OF CONTROLS/MEASURES

As indicated in the sequence of major activities, the silt fencing and other temporary erosion controls will be constructed prior to clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than twenty-one days will be stabilized with a temporary seed and mulch within fourteen days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch as per the specifications. All accumulated sediment will be removed and the area will be monitored and maintained until stabilized.

MAINTENANCE/INSPECTION PROCEDURES

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All control measures shall be inspected by the Engineer on a bi-weekly basis and following any storm event of 0.5" or greater.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of the report.
- Built-up sediment will be removed from silt fence when it has reached one-quarter the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, if fabric is securely attached to posts, and if posts are firmly embedded in the ground.
- Sediment traps and ditch checks will be inspected for depth of sediment and secured placement. Built-up sediment will be removed when it reaches the maximum allowable sediment level or at the direction of the Engineer.
- All ditches will be inspected and any breaches promptly repaired.
- Temporary and permanent seeding will be inspected for bare spots, washouts, rills, cuts and healthy growth.
- The Contractor shall have two individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report. The Engineer shall verify all inspections, maintenance and repair activities.
- A maintenance inspection report in accordance with Part IV.D.4.b. of the general permit shall be made and kept on file by the Contractor as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with Part VI.G of the general permit.
- If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Engineer shall complete and file a "Incident of Noncompliance (ION)" report for the identified violation. The Engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present onsite during construction:

- | | |
|----------------|-----------------------------|
| 1. Concrete | 5. Cleaning Solvents |
| 2. Detergents | 6. Wood |
| 3. Fertilizers | 7. Lime |
| 4. Paints | 8. Petroleum Based Products |

SPILL PREVENTION

Material Management Practices The following will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:

- Good Housekeeping - The following good housekeeping practices will be followed onsite during the construction project:
 - Effort to store only enough product required to do the job.
 - Materials stored in a neat, orderly manner in their appropriate containers.
 - Products kept in original containers with original manufacturer's labels.
 - Materials not mixed with one another unless recommended by the manufacturer.
 - All of a product will be used up before disposing of the container.
 - Manufacturer's recommendations for proper use and disposal will be followed.

2. Hazardous Products - These practices are used to reduce the risks associated with hazardous materials:

- Products will be kept in original containers unless they are not reseedable.
- Original labels and Material Safety Data Sheets (MSDS) will be retained.
- If surplus product must be disposed of, manufacturer's or local and state recommended methods for proper disposal will be followed.

Product Specific Practices The following practices will be followed onsite:

- Petroleum Products - All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- Fertilizers - All fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water runoff. Storage will be in a covered area. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
- Paints - All containers will be tightly sealed and stored when not required for use. Excess paint will not be dumped on the ground or discharged to the storm sewer system, but will be properly disposed of according to manufacturer's instructions or applicable state or local regulations.
- Concrete Trucks - Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water onsite unless in an approved holding basin.

STORM WATER POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted herein, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed: *Christopher L. Wilton* Date: *11/10/05*

CONTRACTOR'S CERTIFICATION

A Contractor's Certification Signature Sheet has been inserted in the Special Provisions and is hereby made part of the Contract. The Contractor shall sign and date the certification sheet and it shall be submitted with his Proposal.

•• FAILURE TO DO SO WILL BE SUFFICIENT CAUSE TO REJECT THE BIDDERS PROPOSAL ••

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

CADD FILE: /4690/Errosion/4690.DGN
PLOTTED: 10/24/2005

ILL. & G. NO. 4690



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

MICHAEL R. BEIL &
LENA S. BEIL

COLUMBIA FARMERS
COOPERATIVE GRAIN
COMPANY

D.S. HOMES, INC.

CITY OF
WATERLOO

COLUMBIA FARMERS
COOPERATIVE GRAIN
COMPANY

LEGEND

	PERIMETER EROSION BARRIER
	TRIANGULAR SILT DIKE
	HEAVY DUTY EXCELSIOR BLANKET

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL
PLAN DETAILS**

SCALE _____ DATE _____
DRAWN BY _____ CHECKED BY _____

STA. 115+11.4, 99.3' LT
STA. 115+02.7, 103.0' LT
TRIANGULAR SILT DIKE,
4 EACH
STA. 114+81.3, 106.4' LT
STA. 114+71.4, 108.5' LT
STA. 114+50, 80' LT

STA. 113+75, 50' LT

DAVID A. &
JEAN E. WHEAT

STEVEN &
RAMONA ESCHMANN

GERARD B.
BIEBER

DENA KAY
RUDLOFF
fka DENA K. ISAACS

LAURA
GRUENINGER

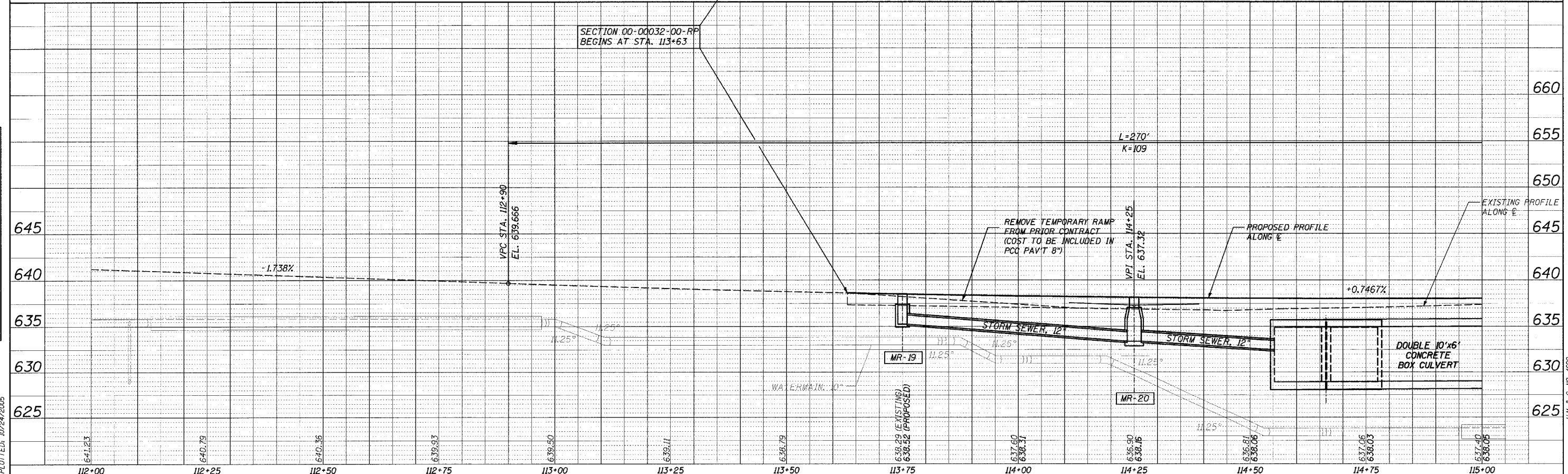
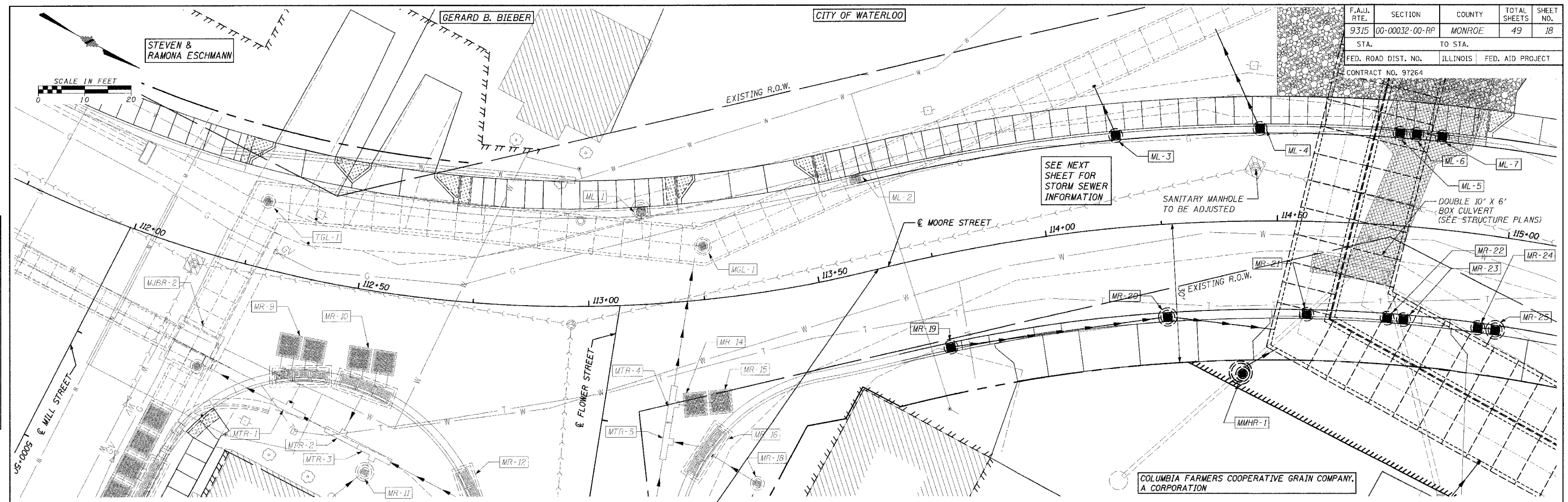
KATHY
MARQUARDT

NELDA M.
GROSSE

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PLOTTED: 10/24/2005

P.L.M. & G. NO. 4690

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	18
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT NO. 97264		



PLAN

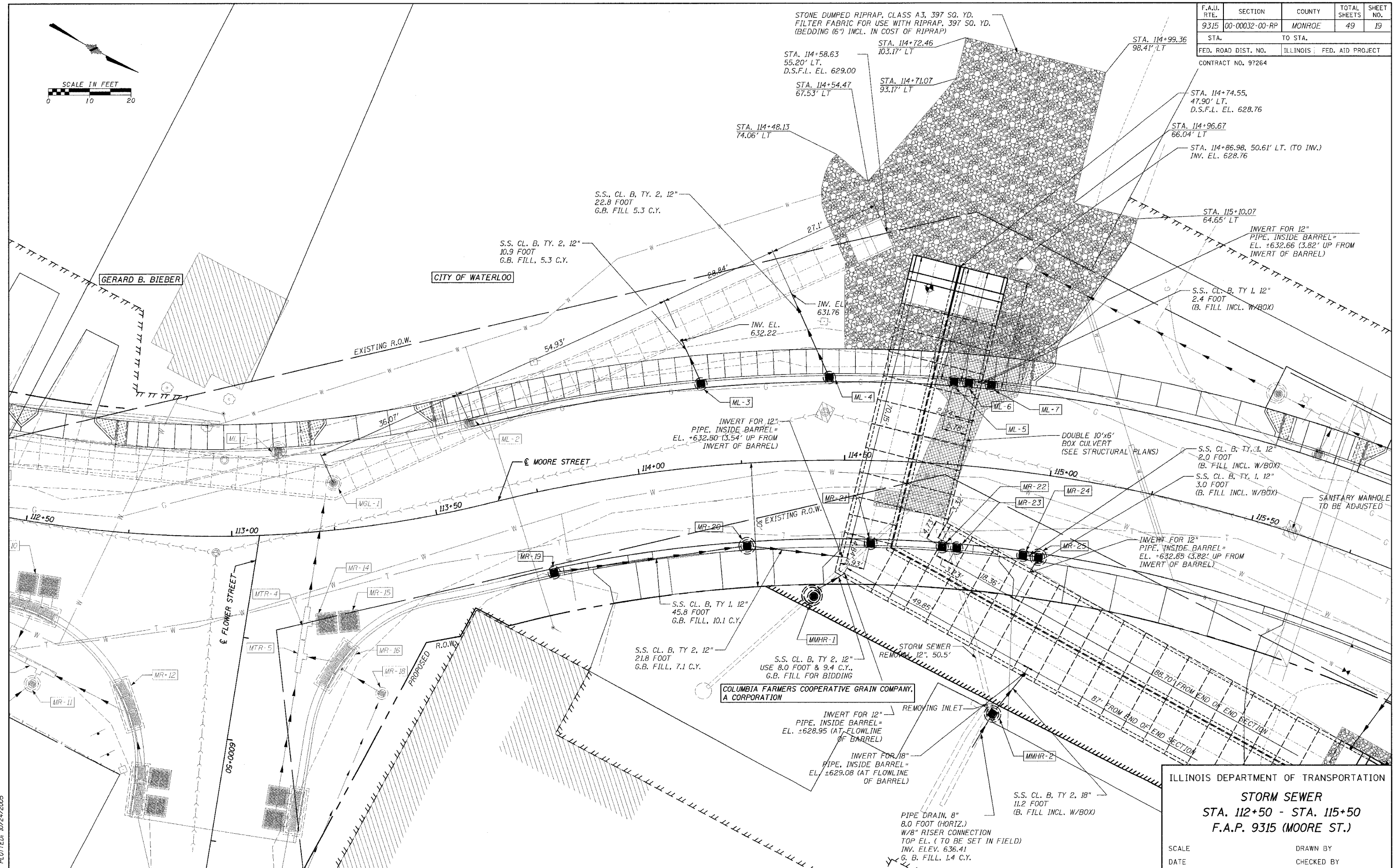
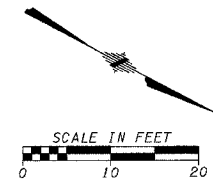
DATE	
BY	
DESIGNED	
CHECKED	
IN CHARGE	
DATE	
NO. OF SHEETS	
NO. OF THIS SHEET	
PROJECT NO.	
CONTRACT NO.	

PROFILE

DATE	
BY	
DESIGNED	
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IN CHARGE	
DATE	
NO. OF SHEETS	
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PROJECT NO.	
CONTRACT NO.	

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PLOTTER: 10/24/2005

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	19
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM SEWER
 STA. 112+50 - STA. 115+50
 F.A.P. 9315 (MOORE ST.)

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

CADD FILE: /4690/7/BSS5P4690.DGN
 PLOTTED: 10/24/2005

H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

PER-1 EXISTING
 STA. 111+22.24, 15.46' RT.
 (TO CENTER OF ELBOW)
 R.C. PIPE 18" DIA., 15"
 INV. EL. 637.87

PMHR-1 EXISTING
 STA. 111+28.29, 14.46' RT. (TO CENTER OF M.H.)
 STA. 111+28.00, 15.94' RT (TO CENTER OF LID)
 RESTR. DEPTH M.H. 7' DIAM. W/TY. 1 F. & CL. LID
 TOP EL. 642.16
 INV. EL. 634.67

PTR-1 EXISTING
 STA. 111+50, 14.53' RT. (TO CENTER
 OF MAIN PIPE OF 4' LONG TEE)
 R.C. PIPE TEE, 54" W/15" STEM
 INV. EL. 634.47

PR-1 EXISTING
 STA. 111+50, 20.05' RT. (TO CENTER OF
 OF GRATE)
 INLET, TYPE B W/TY. 3V F. & G.
 EOP EL. 641.72
 INV. EL. 636.67

PMHL-1 EXISTING
 STA. 111+53.85, 18.55' LT. (TO CENTER OF M.H.)
 STA. 111+53.79, 19.99' LT (TO CENTER OF LID)
 RESTR. DEPTH M.H. 6' DIAM. W/TY. 1 F. & CL. LID
 TOP EL. 641.63
 INV. EL. 636.75

PTR-2 EXISTING
 STA. 111+53.85, 14.53' RT. (TO CENTER
 OF MAIN PIPE OF TEE)
 R.C. PIPE TEE, 54" W/24" STEM
 INV. EL. 634.12

MJBR-1 EXISTING
 STA. 111+75.71, 14.96' RT. (TO CNTR.)
 STA. 111+78.30, 18.09' RT. (TO CNTR. LID)
 JUNCTION BOX
 TOP EL. 641.23
 N. INV. EL. 634.11
 E. INV. EL. 634.24
 S. INV. EL. 634.24

MJBR-2 EXISTING
 STA. 112+19.04, 20.59' RT. (TO CNTR.)
 STA. 112+21.07, 24.08' RT. (TO CNTR. LID)
 JUNCTION BOX
 TOP EL. 640.41
 N. INV. EL. 633.45
 W. INV. EL. 633.33
 E. INV. EL. 633.47
 S. INV. EL. 633.48

TGL-1 EXISTING
 STA. 112+25.52, 14.32' LT.
 INLET, TYPE A W/TY. 1 F. & CL. LID
 TOP EL. 640.48
 INV. EL. +637.51 (TOP OF BOX)

MR-9 EXISTING
 INLETS, SPECIAL, NO. 4
 NORTH INLET IN PAVEMENT
 STA. 112+45.04, 12.91' RT., TOP EL. 640.19, 16.99' RT., TOP EL. 640.11
 STA. 112+43.19, 14.95' RT. (TO CENTER)
 STA. 112+41.34, 12.92' RT., TOP EL. 640.25, 17.0' RT., TOP EL. 640.17
 INV. EL. 635.45

INLET IN CURB
 STA. 112+47.18, 19.76' RT. (TO MIDDLE OF INSIDE WALL)
 STA. 112+46.56, 19.04' RT., EOP EL. 640.03
 STA. 112+43.69, 19.32' RT., EOP EL. 640.09
 STA. 112+42.91, 19.42' RT., EOP EL. 640.10
 STA. 112+40.10, 20.03' RT., EOP EL. 640.13
 STA. 112+39.28, 20.31' RT., EOP EL. 640.14
 STA. 112+36.57, 21.3' RT., EOP EL. 640.16
 STA. 112+36.05, 22.24' RT. (TO MIDDLE OF INSIDE WALL)
 W. INV. EL. 635.08 (BOTH PIPES)
 E. INV. EL. 635.01
 SOUTH INLET IN PAVEMENT
 STA. 112+39.93, 12.93' RT., TOP EL. 640.28, 17.01' RT., TOP EL. 640.19
 STA. 112+38.13, 15.01' RT. (TO CENTER)
 STA. 112+36.24, 13.01' RT., TOP EL. 640.34, 17.09' RT., TOP EL. 640.26
 INV. EL. 635.54

MTR-1 EXISTING
 STA. 112+40.44, 28.40' RT. (TO CENTER
 OF MAIN PIPE OF TEE)
 PIPE TEE, 24" W/24" STEM
 INV. EL. 633.64

MTR-2 EXISTING
 STA. 112+51.86, 32.21' RT. (TO CENTER
 OF MAIN PIPE OF TEE)
 PIPE TEE, 24" W/24" STEM
 INV. EL. 633.76

MR-10 EXISTING
 INLETS, SPECIAL, NO. 4
 NORTH INLET IN PAVEMENT
 STA. 112+59.67, 13.01' RT., TOP EL. 639.93, 17.08' RT., TOP EL. 639.85
 STA. 112+57.80, 15.01' RT. (TO CENTER)
 STA. 112+55.97, 12.95' RT., TOP EL. 640.00, 17.03' RT., TOP EL. 639.92
 INV. EL. 635.20

INLET IN CURB
 STA. 112+60.37, 22.32' RT. (TO MIDDLE OF INSIDE WALL)
 STA. 112+59.92, 21.52' RT., TOP EL. 639.76
 STA. 112+57.80, 20.54' RT., EOP EL. 639.82
 STA. 112+56.41, 20.29' RT., EOP EL. 639.84
 STA. 112+53.62, 19.59' RT., EOP EL. 639.91
 STA. 112+52.82, 19.45' RT., EOP EL. 639.92
 STA. 112+49.96, 17.63' RT., EOP EL. 640.00
 STA. 112+49.21, 17.47' RT. (TO MIDDLE OF INSIDE WALL)
 W. INV. EL. 634.92 (BOTH PIPES)
 F. INV. EL. 634.85
 SOUTH INLET IN PAVEMENT
 STA. 112+54.49, 12.92' RT., TOP EL. 640.02, 17.00' RT., TOP EL. 639.94
 STA. 112+52.65, 14.97' RT. (TO CENTER)
 STA. 112+50.80, 12.94' RT., TOP EL. 640.09, 17.02' RT., TOP EL. 640.00
 INV. EL. 635.29

MTR-3 EXISTING
 STA. 112+58.38, 34.89' RT. (TO CENTER
 OF MAIN PIPE OF TEE)
 PIPE TEE, 24" W/12" STEM
 INV. EL. 633.84

MR-11 EXISTING
 STA. 112+57.47, 38.86' RT. (TO CENTER
 OF GRATE)
 INLET, TYPE B W/TY. B GRATE
 TOP EL. 639.00
 INV. EL. 634.09

ML-1 EXISTING
 STA. 113+12.43, 20.05' LT. (TO CENTER
 OF GRATE)
 INLET, TYPE B W/TY. 3V F. & G.
 EOP EL. 638.91
 INV. EL. 633.95

MGL-1 EXISTING
 STA. 113+25.89, 11.43' LT.
 INLET, TYPE A W/TY. 1 FR. & CL. LID
 TOP EL. 638.87
 INV. EL. +636.00 (TOP OF BOX)

ML-2 EXISTING
 STA. 113+64, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 638.26
 INV. EL. +635.43 (TOP OF BOX)

MR-19
 STA. 113+75, 20.05' RT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 638.14
 INV. EL. 635.25

ML-3
 STA. 114+17, 20.05' LT. (TO CENTER
 OF GRATE)
 INLET, TYPE B W/TY. 3V F. & G.
 EOP EL. 637.82
 INV. EL. 632.65

ML-4
 STA. 114+46.47, 20.05' LT. (TO CENTER
 OF GRATE)
 INLET, TYPE B W/TY. 3V F. & G.
 EOP EL. 637.69
 INV. EL. 632.67

MR-20
 STA. 114+25, 20.05' RT. (TO CNTR. OF GT.)
 INLETS, TYPE B W/SPECIAL FRAME & GRATE
 EOP EL. 637.78
 INV. EL. 633.41

MMHR-1
 STA. & O/S TO BE SET IN FIELD
 INLET, TYPE B W/TY. 1 F. & CL. LID
 TOP EL. TO BE SET IN FIELD
 INV. EL. TO BE SET IN FIELD

MR-21
 STA. 114+56.75, 20.05' RT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.68
 INV. EL. +635.79 (TOP OF BOX)

MR-22
 STA. 114+75.19, 20.05' RT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.68
 INV. EL. +635.79 (TOP OF BOX)

MR-23
 STA. 114+78.92, 20.05' RT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.65
 INV. EL. +635.81 (TOP OF BOX)

MR-24
 STA. 114+96.02, 20.05' RT.
 INLETS, TYPE A W/SPECIAL FRAME & GRATE.
 EOP EL. 637.66
 INV. EL. 633.17

MR-25
 STA. 115+00, 20.05' RT. (TO CENTER
 OF GRATE)
 INLETS, TYPE B W/SPECIAL FRAME & GRATE
 EOP EL. 637.67
 INV. EL. 633.02

MMHR-2
 STA. & O/2 TO BE SET IN FIELD
 INLET, TYPE B W/TY. 1 F. & CL. LID
 TOP EL. TO BE SET IN FIELD
 INV. EL. TO BE SET IN FIELD

ML-5
 STA. 114+75, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.65
 INV. EL. +635.67 (TOP OF BOX)

ML-6
 STA. 114+78.42, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.65
 INV. EL. 635.67 (TOP OF BOX)

ML-7
 STA. 114+83.64, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 637.65
 INV. EL. 632.78

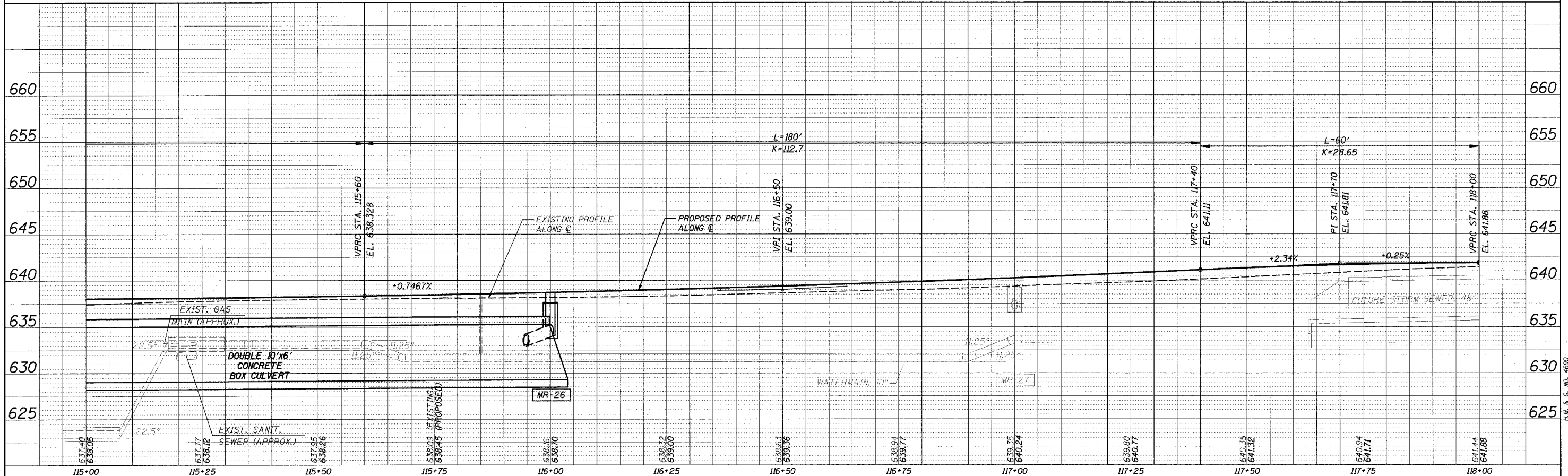
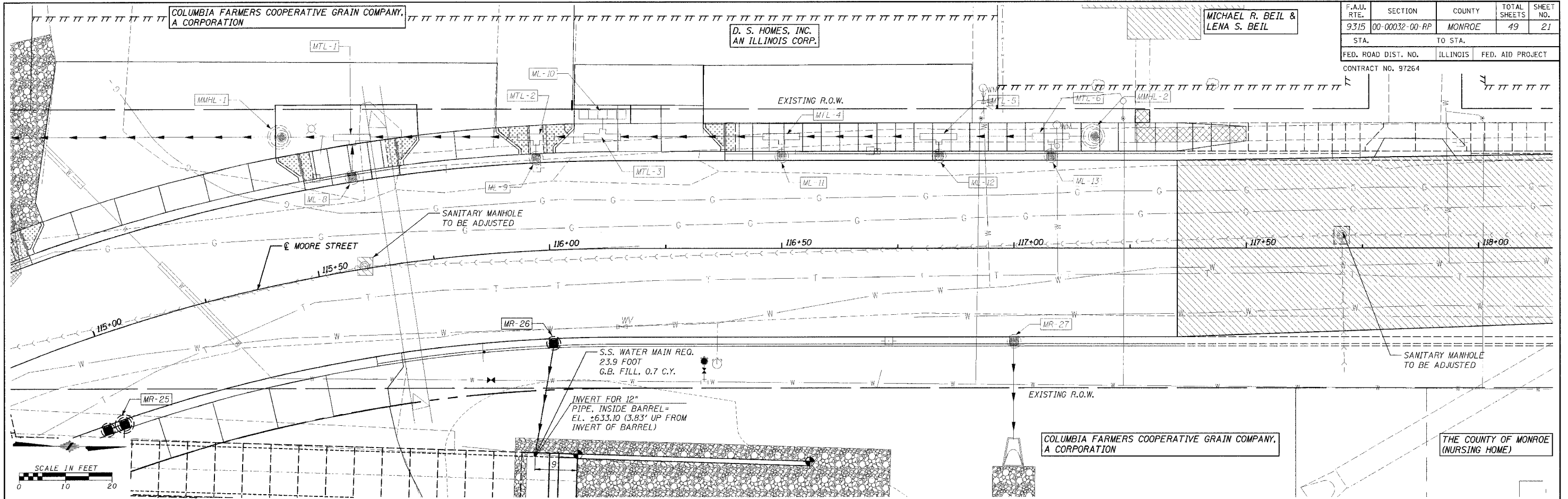
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H.M. & G. INC. 4690

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM SEWER
STA. 110+98 - STA. 115+00
F.A.P. 9315
(MOORE STREET)

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



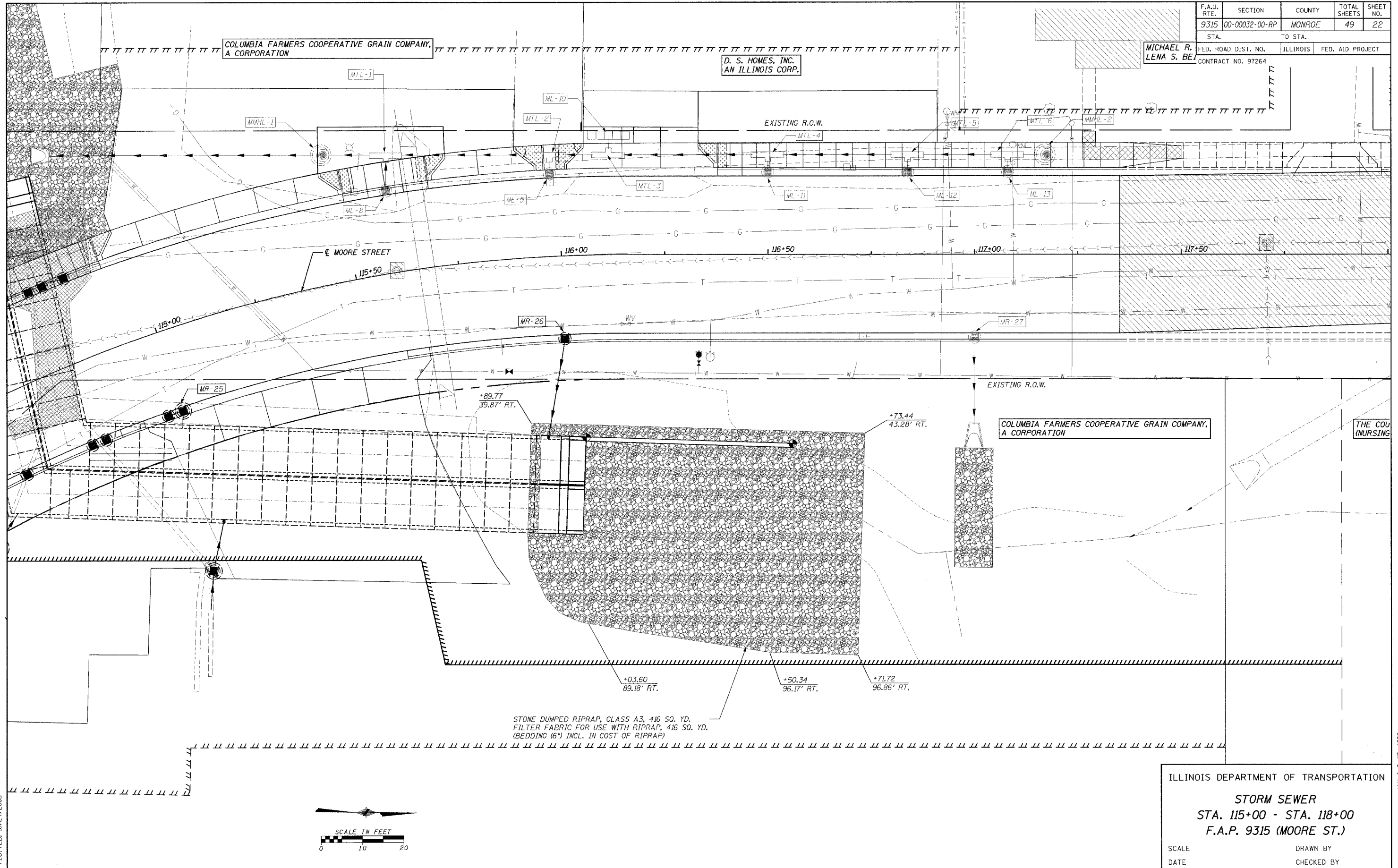
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 PLOTTED: _____
 DATE: _____
 NO. _____

PROFILE
 SURVEYED: _____
 PLOTTED: _____
 DATE: _____
 NO. _____

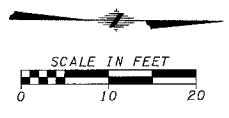
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 PLOTTED: 10/24/2005

PLM & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



CADD FILE: /4690/FB556P4690.DGN
PLOTTER: 10/24/2005



ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM SEWER
 STA. 115+00 - STA. 118+00
 F.A.P. 9315 (MOORE ST.)

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

H.M. & G. NO. 4690

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

MMHL-1 EXISTING
 STA. 115+47.32, 31.21' LT. (TO CENTER OF MANHOLE)
 RESTR. DPTH M.H., 4' DIAM. W/TY. 1 F. & CL. LID
 TOP EL. 638.00
 S. INV. EL. 629.15
 N. INV. EL. 633.76

MFL-1 EXISTING
 STA. 115+51.65, 30.89' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 633.99

ML-8 EXISTING
 STA. 115+60.36, 20.05' LT.
 INLET, TYPE A W/TY 3V F. & G.
 EOP EL. 637.95
 INV. EL. 634.88

MFL-2 EXISTING
 STA. 115+98.33, 24.53' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 634.39

ML-9 EXISTING
 STA. 115+98.08, 20.05' LT.
 INLETS, TYPE A W/SPECIAL FRAME & GRATE
 EOP EL. 638.29
 INV. EL. 635.29

MR-26
 STA. 116+00, 20.05' RT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 638.32
 INV. EL. 634.09

ML-10 EXISTING
 STA. 116+11.74, 28.87' LT. (TO CENTER OF 5-2' GRATES)
 TRENCH DRAIN
 TOP N.W. EL. 638.69, TOP N.E. EL. 638.69
 TOP S.W. EL. 638.57, TOP S.E. EL. 638.57
 NORTH INV. EL. 636.36
 MIDDLE INV. EL. 635.57
 SOUTH INV. EL. 636.24

MFL-3 EXISTING
 STA. 116+11.70, 24.13' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 634.53

MFL-4 EXISTING
 STA. 116+50, 24.16' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 634.91

ML-11 EXISTING
 STA. 116+50, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 638.98
 INV. EL. 635.86

MFL-5 EXISTING
 STA. 116+84, 24.16' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 635.25

ML-12 EXISTING
 STA. 116+84, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 639.56
 INV. EL. 636.00

MR-27 EXISTING
 STA. 117+00, 20.05' RT.
 INLET, TYPE A W/TY 3V F. & G.
 EOP EL. 639.86
 INV. EL. 636.86

MFL-6 EXISTING
 STA. 117+08, 24.16' LT. (TO CENTER OF MAIN PIPE OF TEE)
 PIPE TEE, 18" W/12" STEM
 INV. EL. 635.49

ML-13 EXISTING
 STA. 117+08, 20.05' LT.
 INLET, TYPE A W/TY. 3V F. & G.
 EOP EL. 640.03
 INV. EL. 636.33

MMHL-2 EXISTING
 STA. 117+17.05, 24.16' LT. (TO CENTER OF M.H.), +17.55, 24.16' LT. (TO CNTR. OF LID)
 RESTR. D. M.H., 4' DIAM. W/TY. 1 F. & CL. LID
 TOP EL. 640.070
 INV. EL. 635.58

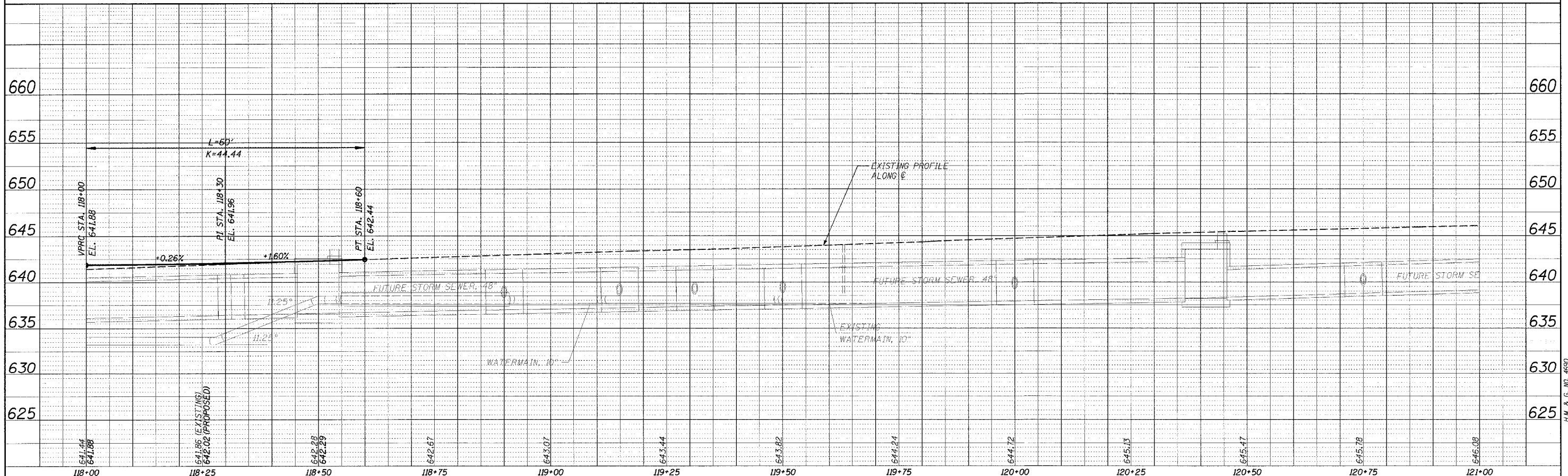
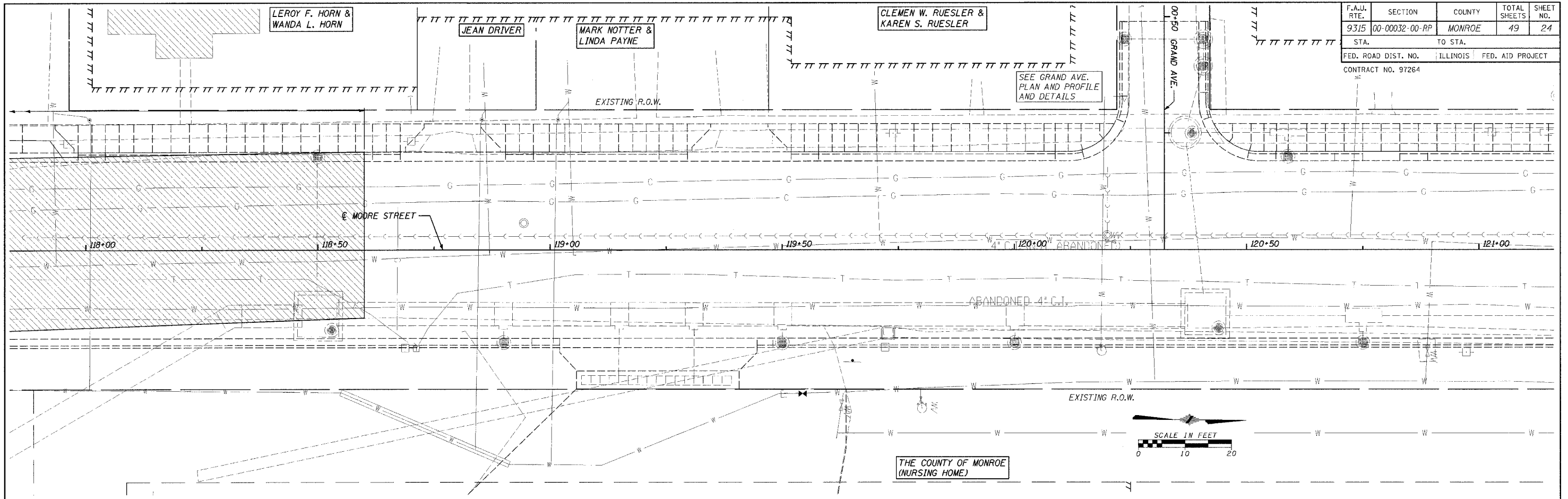
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 PLOTTED: 10/24/2005

P.M. & G. INC. 4690

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM SEWER
STA. 115+00 - STA. 118+00
F.A.P. 9315
(MOORE STREET)

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	24
STA. 118+00		TO STA. 121+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



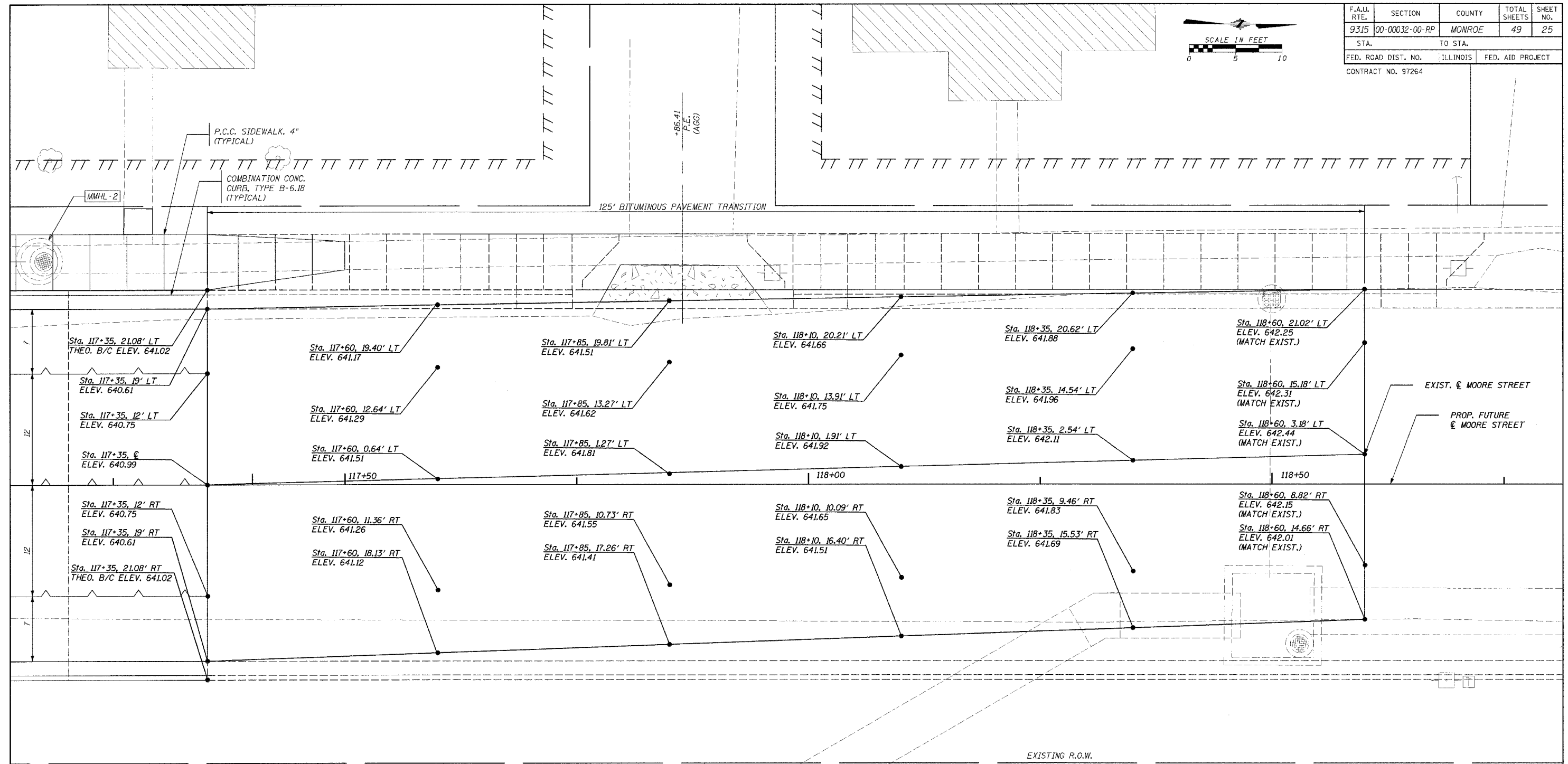
PLAN
 DATE: _____ BY: _____
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 NOTE BOOK NO. _____
 NO. _____

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 NOTE BOOK NO. _____
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 PLOTTED: 10/24/2005

P.M. & G. NO. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97264				



LEGEND	
--- SAWED JOINT WITH NO DOWELL OR TIE BAR PLACEMENT	--- SAWED CONTRACTION JOINT
--- EXPANSION JOINT	--- SAWED LONGITUDINAL JOINT
	TT T TEMPORARY CONSTRUCTION EASEMENT

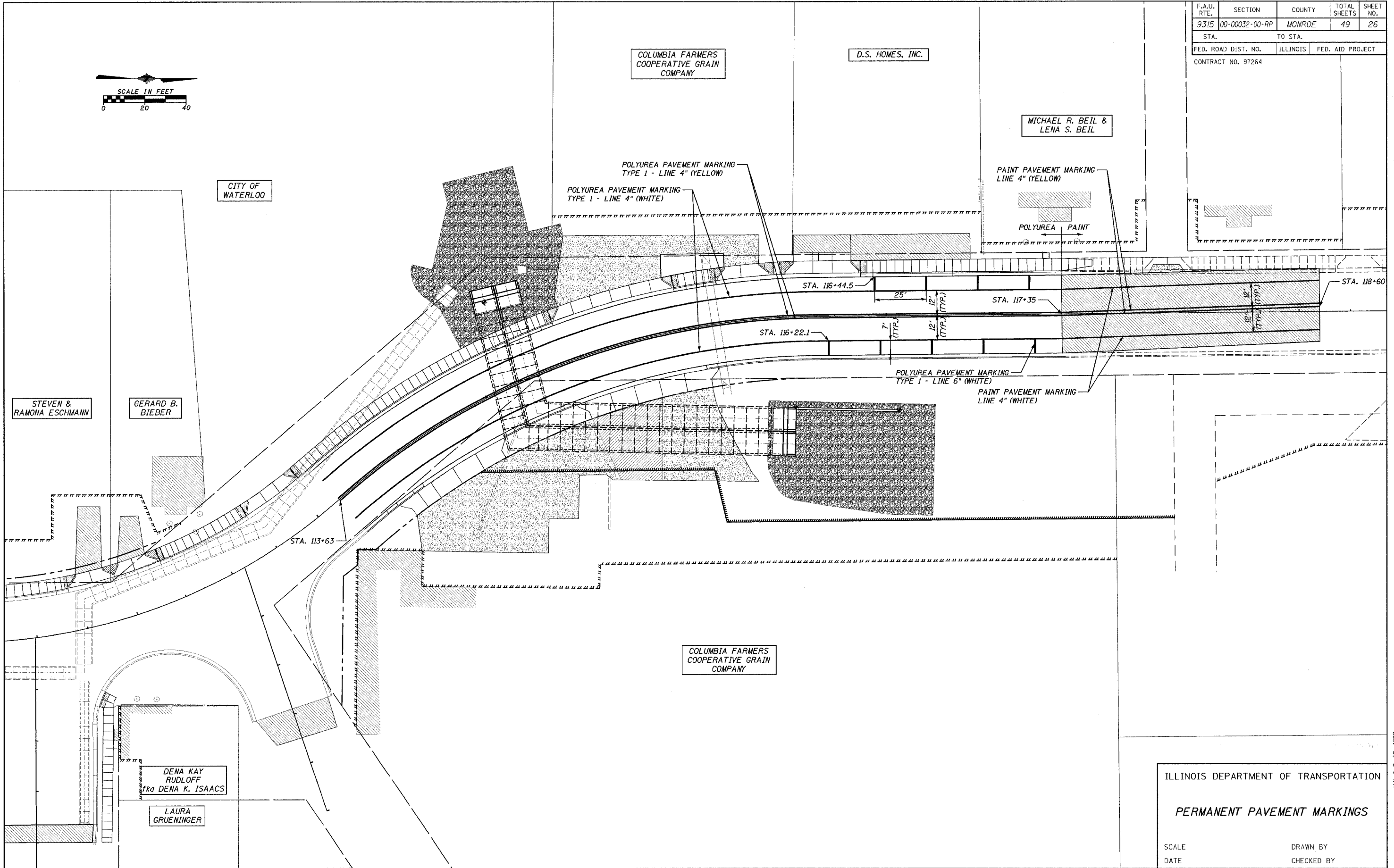
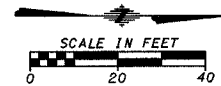
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRANSITION
 DETAIL**
 MOORE STREET NORTH TIE-IN

SCALE _____ DRAWN BY _____
 DATE _____ CHECKED BY _____

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 PLOTTED: 10/24/2005

H.M. & G. INC. 4690

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



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PLOTTED: \$DATE\$

ILLINOIS DEPARTMENT OF TRANSPORTATION

PERMANENT PAVEMENT MARKINGS

SCALE _____ DRAWN BY _____
DATE _____ CHECKED BY _____

P.M. & G. NO. 4690

BENCHMARK:

TRAVERSE STATION #469017, STA. 113+80.07, 107.74' LT. ELEV. 634.72 (ON CITY OF WATERLOO PROPERTY)

EXISTING STRUCTURES:

THE EXISTING STRUCTURE CONSISTS OF WINGWALLS ON THE DOWNSTREAM END SUPPORTING A PEDESTRIAN WALKWAY. WINGWALLS ARE CONNECTED AND TAPERED INTO A CONCRETE 7.5' (SPAN) x 6' (RISE) BOX CULVERT. ON THE UPSTREAM END, A FOREMENTIONED BOX CULVERT IS CONNECTED TO A 9' x 3' MASONRY JUNCTION BOX WITH A POURED SLAB ON TOP SERVING AS A SWALE. THE JUNCTION BOX CONNECTS TO AN UPSTREAM 54" DIAMETER CONCRETE PIPE AND TWO OTHER SMALLER PIPES. TWO APPROXIMATE 12" DIAM. CASING PIPES CARRYING CITY-OWNED 4" GAS MAIN AND 10" SANITARY SEWER RUN THROUGH THE STRUCTURE. "REMOVAL OF EXIST. STRUCTURES NO. 2" ENTAILS ONLY THE 54" PIPE WHILE "REMOVAL OF EXIST. STRUCT. NO. 1" ENTAILS OTHER STRUCTURES.

THE EXISTING ROADWAY SHALL BE CLOSED TO TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

THE EXISTING STRUCTURE SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE PROVISIONS OF SECTION 501 OF THE STANDARD SPECIFICATIONS.

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

PRECAST UNIT

$f'_c = 5,000$ p.s.i.
 $f_y = 65,000$ p.s.i. (WELDED WIRE FABRIC)

LOADING HS 20-44

ALLOW 50 PSF FOR FUTURE WEARING SURFACE.

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC) = B
BEDROCK ACCELERATION COEFFICIENT (A) = 11.5% OF GRAVITY
SITE COEFFICIENT (S) = 1.5

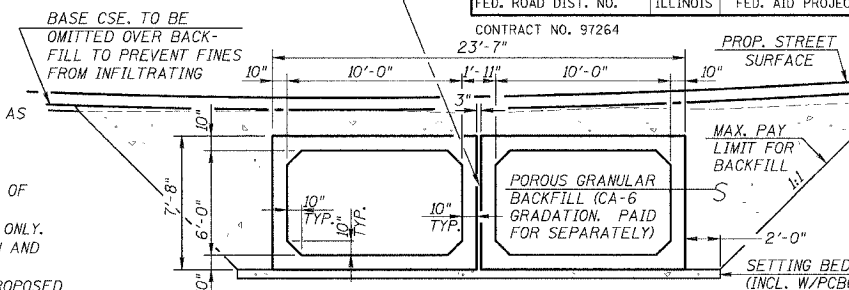
HORIZONTAL CURVE DATA

F.A.U. 9315 (MOORE STREET)
P.I. STA. 114+94.82
 $\Delta = 40^\circ - 54' - 45''$ RT.
 $D = 16^\circ - 13' - 52''$
 $T = 131.67'$
 $R = 353.00'$
 $L = 252.06'$
 $E = 23.76'$
S.E. = NONE
P.R.C. STA. 113+63.144
P.T. STA. 116+15.207

GENERAL NOTES

- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS AND DETAILS HEREIN.
- THE COSTS OF REMOVING EXISTING RIPRAP AND SLOPE PROTECTION SHALL BE INCLUDED IN THE UNIT BID PRICE OF "PRECAST CONCRETE BOX CULVERT 10'x6' (M273)".
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE WATER DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE UNIT BID PRICE OF "PRECAST CONCRETE BOX CULVERT 10'x6' (M273)".
- LAYOUT OF STONE DUMPED RIPRAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
- ALL WORK SHALL CONFORM TO SECTION 540 OF THE STANDARD SPECIFICATIONS.
- ALL UNITS SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO M273, INCLUDING END SECTIONS.
- THE SHOP DRAWINGS SHALL BE SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR/FABRICATOR ARE RESPONSIBLE FOR VERIFYING THESE BEFORE FABRICATION AND INSTALLATION OF THE STRUCTURE(S).
- THE CONTRACTOR/FABRICATOR'S ATTENTION IS CALLED TO THE NEED TO KEEP INVERTS OF PROPOSED STORM SEWER ENTERING THE CULVERT BARRELS AT APPROXIMATE ELEVATIONS AND HEIGHTS FROM FLOWLINE OF THE BARREL SHOWN ON THESE PLANS TO ALLEVIATE BACKWATER EFFECTS IN PROPOSED STORM SEWER SYSTEMS. ONLY TWO STORM SEWER PIPES (AT THE SOUTHEAST CORNER OF THE ELBOW AND ALONG THE EAST SIDE OF THE EASTERMOST BARREL) SHALL ENTER THE BARREL AT ITS FLOWLINE.
- ONLY EXPOSED PORTIONS OF BOX CULVERTS AND RETAINING WALLS TO RECEIVE ANTI-GRAFFITI PROTECTION, INCLUDING THE INSIDE OF THE BOX CULVERTS TO WITHIN 12 FEET OF THE U.S. OR D.S. FLOWLINE.
- ALL OPENINGS CAST OR CUT INTO PC BOX CULVERTS FOR PLACEMENT OF STORM SEWER PIPES AND INLETS SHALL BE GROUTED WITH NON-SHRINK GROUT OR CLASS II CONCRETE AND MADE WATERTIGHT AFTER PLACEMENT OF PIPES AND INLETS, COSTS FOR WHICH WILL BE INCLUDED IN "PRECAST CONC. BOX CULVERT..." COSTS.

CLASS II CONCRETE TO BE PLACED IN SPACE BETWEEN BOXES & END SECTIONS, THEIR FULL LENGTH PER STD. SPECIFICATION (COSTS INCL. IN "PRECAST CONCRETE BOX CULVERT..."



BOX CULVERT CROSS SECTION

WATERWAY INFORMATION

DRAINAGE AREA = 0.3 SQ. MI. LOW GRADE EL. = 637.54 @ STA. 114+78

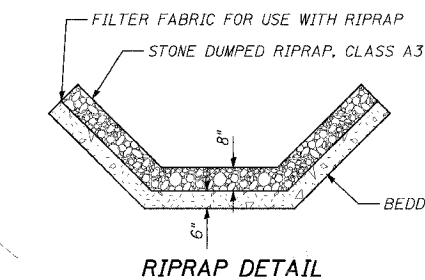
FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		HEAD - FT.		HEADWATER EL.		
			EXIST.	PROP.	EXIST.	PROP.	EXIST.	PROP.	
DESIGN	50	572	13	120	635.7	3.0**	0.00	638.7	634.2
BASE	100	691	13	120	636.2	2.7**	0.00	639.0	634.9
MAX. CALC.	500	896		120	637.0	2.3**	0.00	639.4	636.0

* COMPARED AT PROPOSED STRUCTURE'S UPSTREAM FACE
** INCLUDES OVER-THE-ROAD FLOW

TOTAL BILL OF MATERIAL

(INCLUDES RETAINING WALL BILL OF MATERIAL)

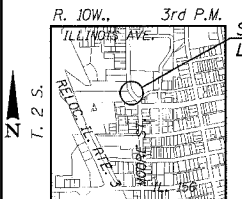
ITEM	UNIT	QUANTITY
POROUS GRANULAR BACKFILL	CU. YD.	1,477
GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ. YD.	96.0
REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
CONCRETE STRUCTURES	CU. YD.	27.4
REINFORCEMENT BARS, EPOXY COATED	POUND	2,070
NAME PLATES	EACH	1
BOX CULVERT END SECTIONS, SPECIAL	EACH	1
BOX CULVERT END SECTION, CULVERT NO. 1	EACH	3
PRECAST CONCRETE BOX CULVERT 10' x 6' (M273)	FOOT	376.2
PIPE DRAINS, 6"	FOOT	50.0
ANTI-GRAFFITI PROTECTION SYSTEM	SQ. FT.	2,746.0
TEMPORARY SUPPORT SYSTEM	L. SUM	1
SANITARY SEWER, PVC, 10" IN 16" CASING PIPE	L. SUM	1



RIPRAP DETAIL

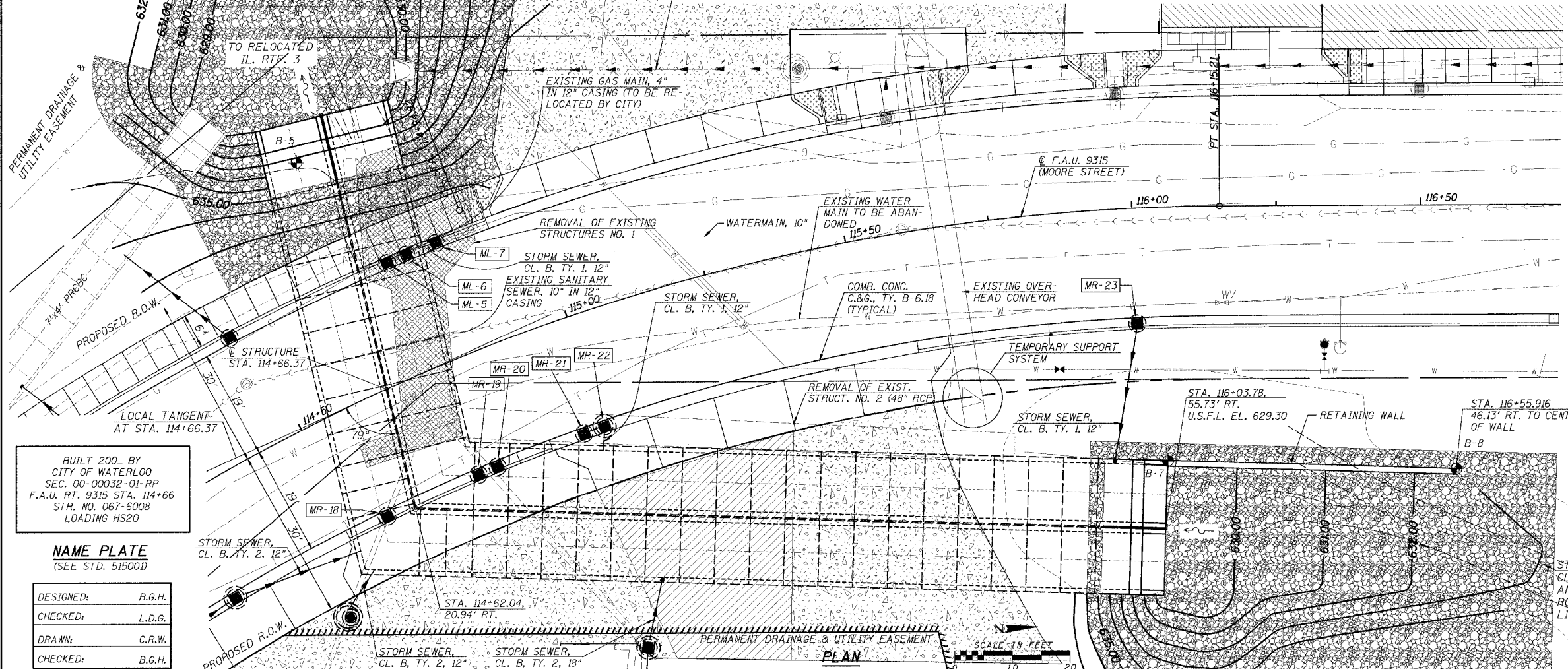
GENERAL PLAN

F.A.U. 9315 OVER DOUBLE 10'x6' CONCRETE BOX CULVERT SECTION 00-00032-01-RP MONROE COUNTY S.N. 067-6008



LOCATION SKETCH

STONE DUMPED RIPRAP, CLASS A3 WITH BEDDING AND FILTER FABRIC (SEE ROADWAY PLANS FOR LIMITS & QUANTITIES)



PLAN

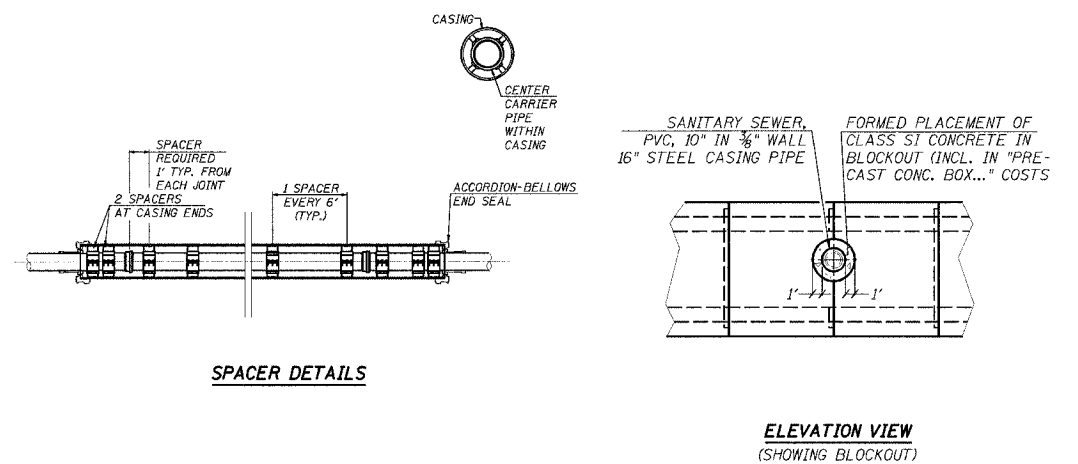
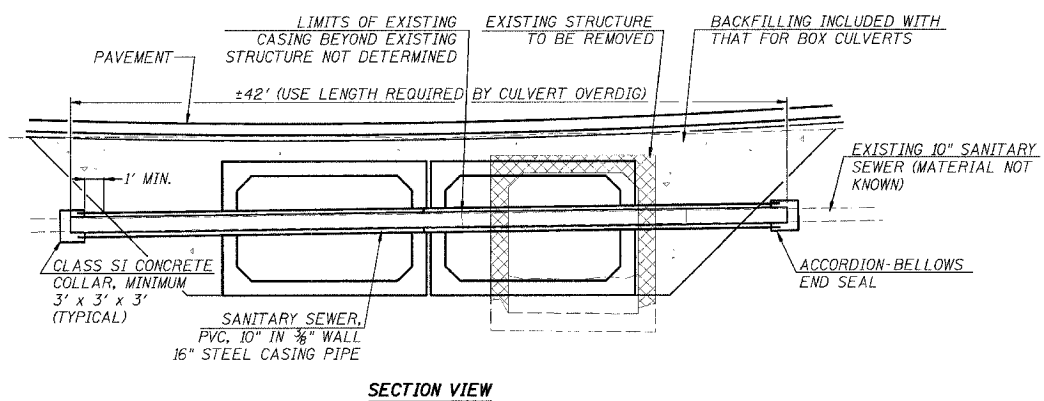
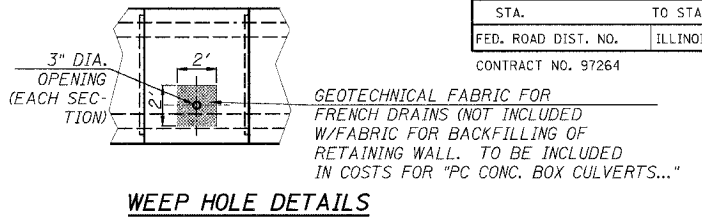
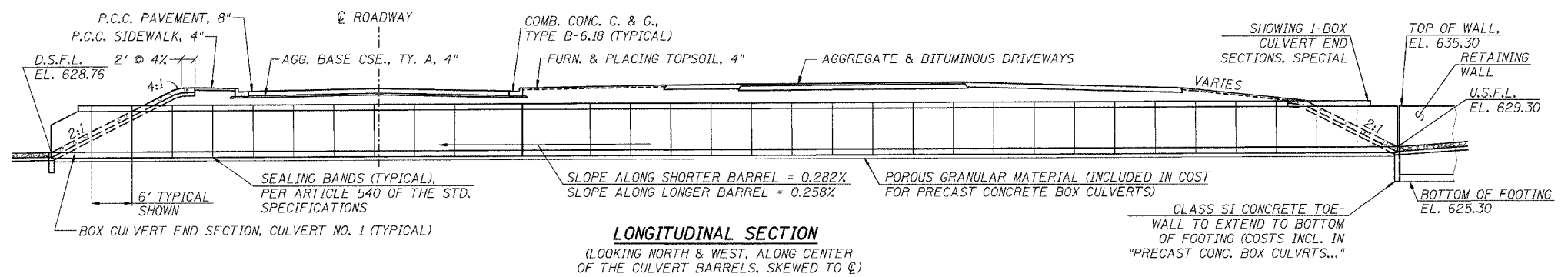
BUILT 200_ BY CITY OF WATERLOO SEC. 00-00032-01-RP F.A.U. RT. 9315 STA. 114+66 STR. NO. 067-6008 LOADING HS20

NAME PLATE
(SEE STD. 515001)

DESIGNED:	B.G.H.
CHECKED:	L.D.G.
DRAWN:	C.R.W.
CHECKED:	B.G.H.

4690/STRUCT-1.dgn CRW AUG 26, 2003

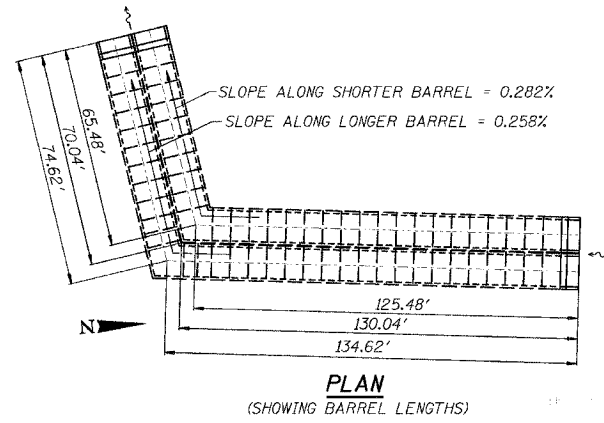
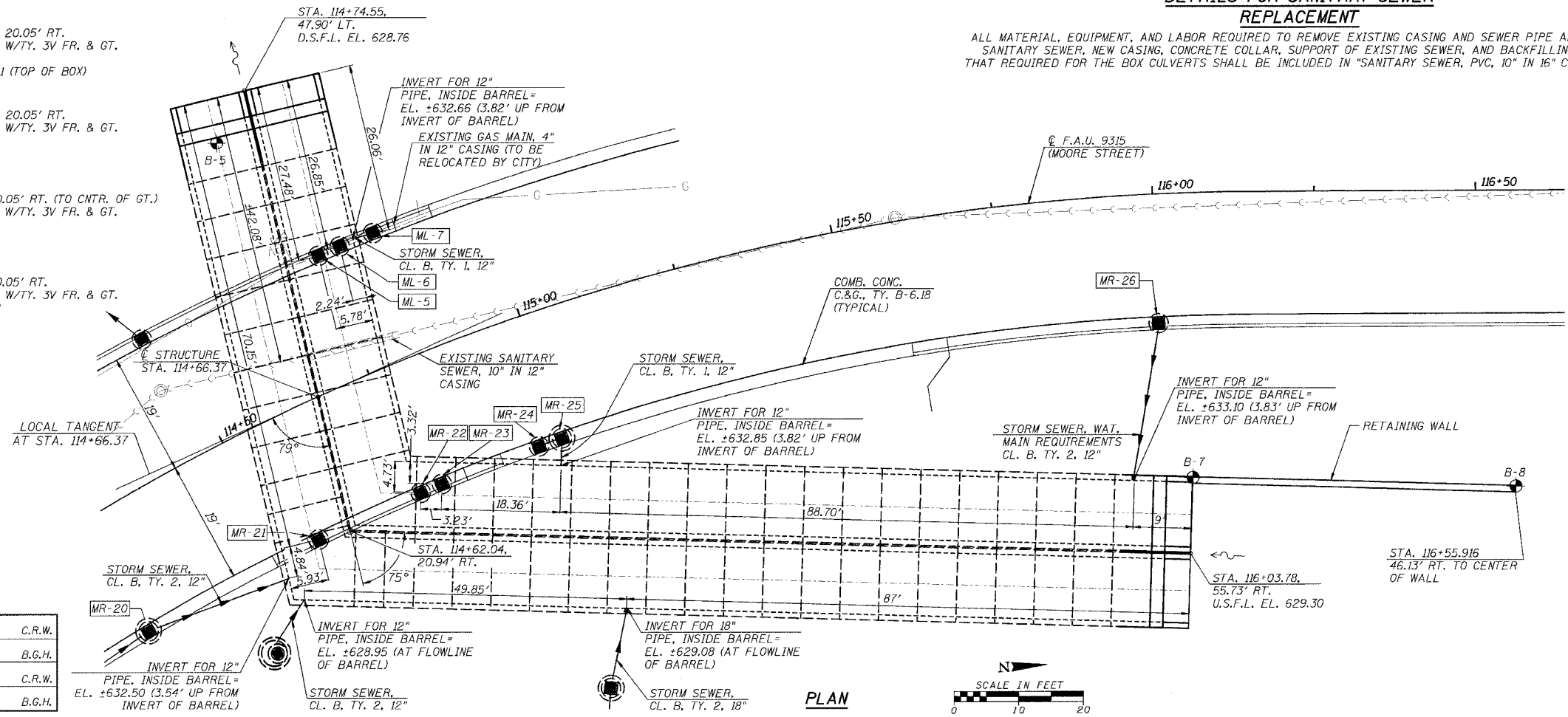
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				



- MR-20**
STA. 114+25, 20.05' RT. (TO CNTR. OF GT.)
INLET, TYPE B, W/TY. 3V FR. & GT.
EOP EL. 637.78
INV. EL. 633.41
- MR-21**
STA. 114+56.75, 20.05' LT.
INLET, TYPE A, W/TY. 3V FR. & GT.
EOP EL. 637.68
INV. EL. ±635.79 (TOP OF BOX)
- MR-22**
STA. 114+78.92, 20.05' RT.
INLET, TYPE A, W/TY. 3V FR. & GT.
EOP EL. 637.65
INV. EL. ±635.79 (TOP OF BOX)
- MR-23**
STA. 114+78.92, 20.05' RT.
INLET, TYPE A, W/TY. 3V FR. & GT.
EOP EL. 637.65
INV. EL. ±635.81 (TOP OF BOX)
- MR-24**
STA. 114+96.02, 20.05' RT.
INLET, TYPE A, W/TY. 3V FR. & GT.
EOP EL. 637.66
INV. EL. 633.17
- MR-25**
STA. 115+00, 20.05' RT. (TO CNTR. OF GT.)
INLET, TYPE B, W/TY. 3V FR. & GT.
EOP EL. 637.67
INV. EL. 633.02
- MR-26**
STA. 116+00, 20.05' RT.
INLET, TYPE A, W/TY. 3V FR. & GT.
EOP EL. 638.32
INV. EL. 634.09

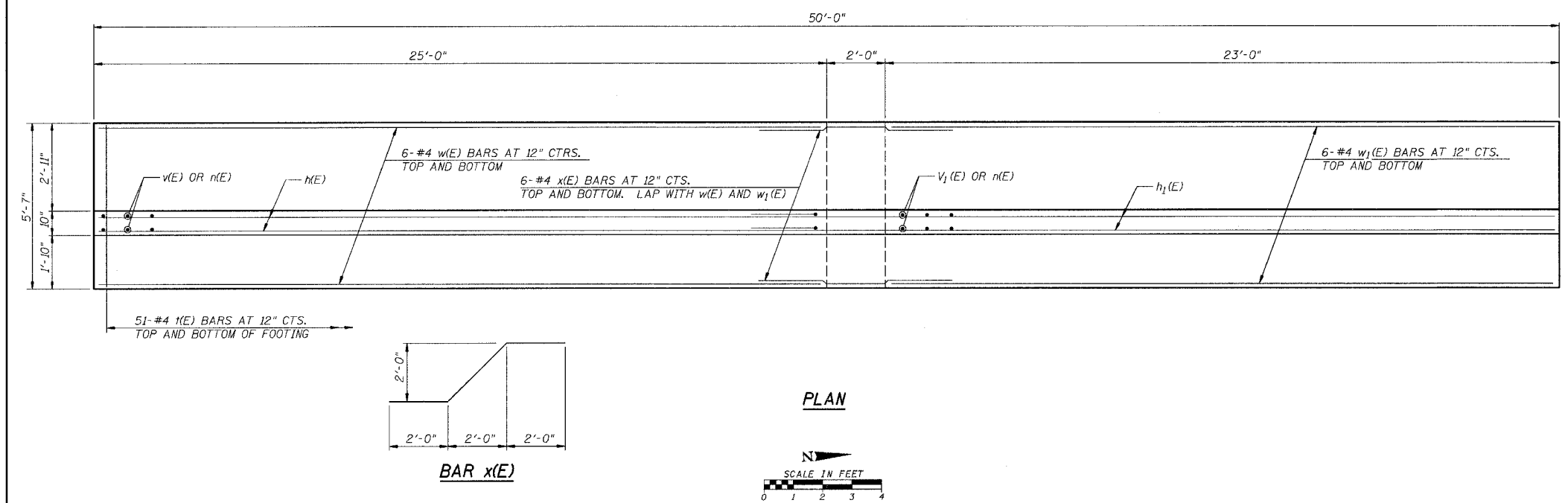
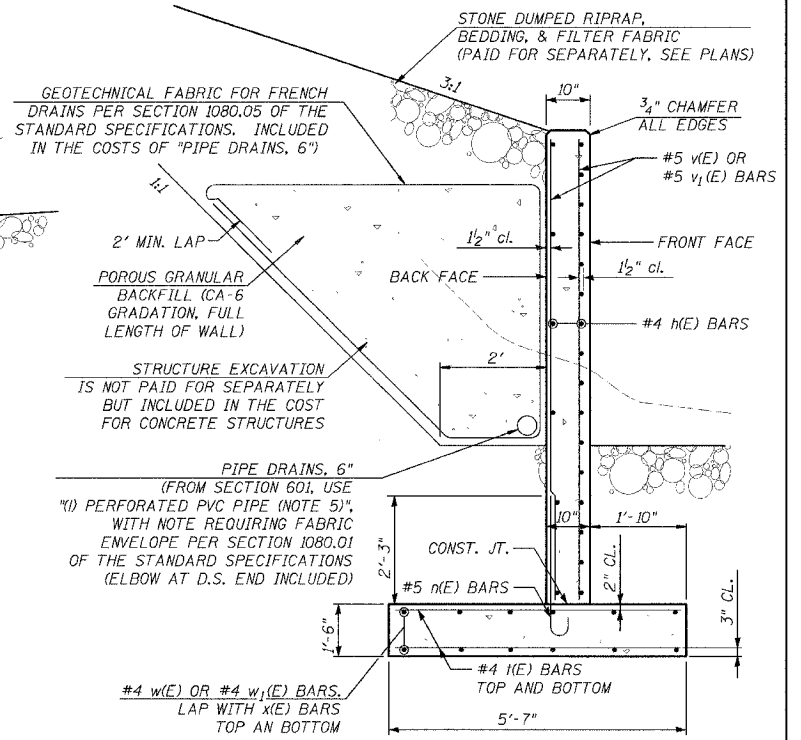
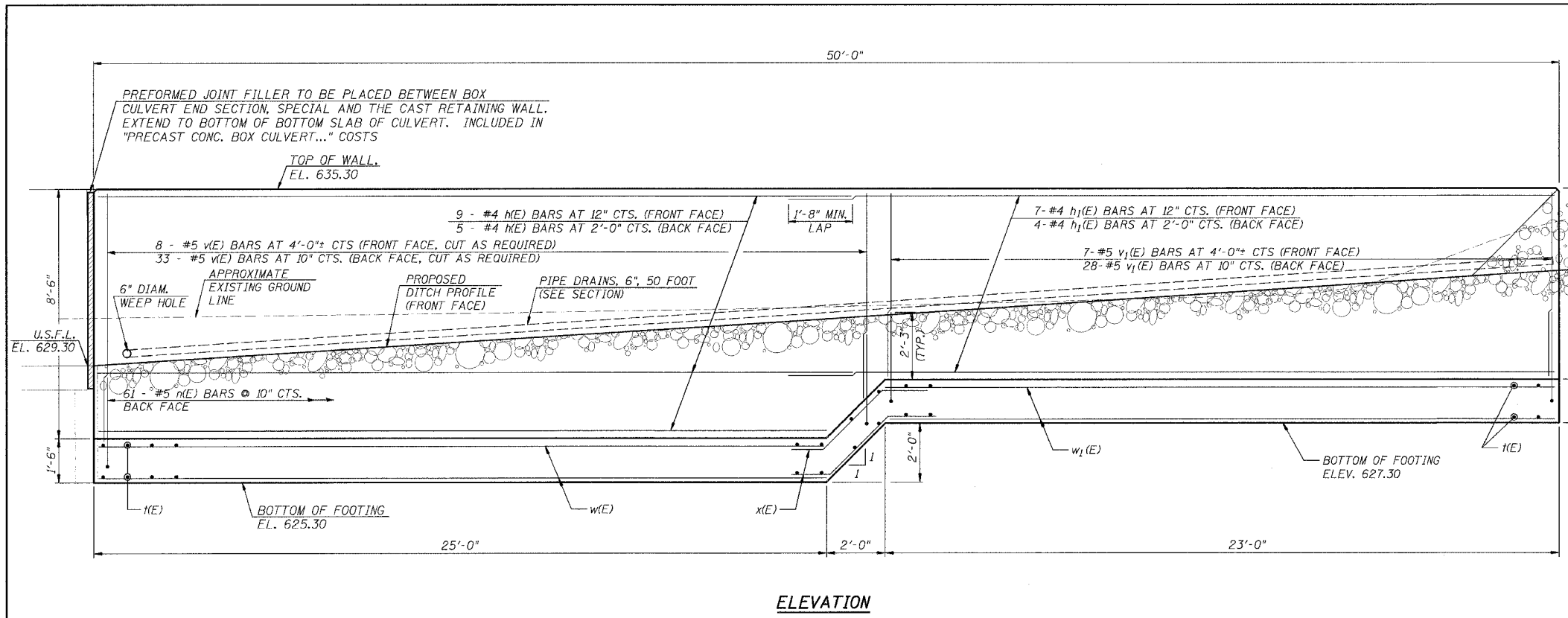
DETAILS FOR SANITARY SEWER REPLACEMENT

ALL MATERIAL, EQUIPMENT, AND LABOR REQUIRED TO REMOVE EXISTING CASING AND SEWER PIPE AND INSTALL SANITARY SEWER, NEW CASING, CONCRETE COLLAR, SUPPORT OF EXISTING SEWER, AND BACKFILLING BEYOND THAT REQUIRED FOR THE BOX CULVERTS SHALL BE INCLUDED IN "SANITARY SEWER, PVC, 10" IN 16" CASING PIPE"



GENERAL ELEVATION & DETAILS
F.A.U. 9315 OVER DOUBLE 10'x6' CONCRETE BOX CULVERT SECTION 00-00032-01-RP MONROE COUNTY S.N. 067-6008

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



SECTION
RETAINING WALL BILL OF MATERIAL

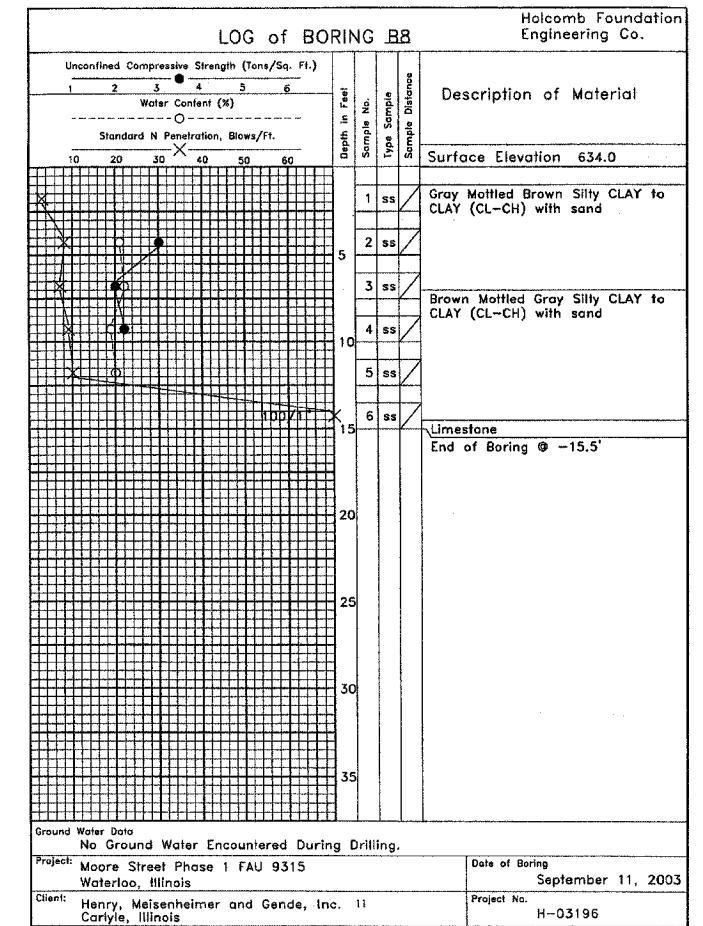
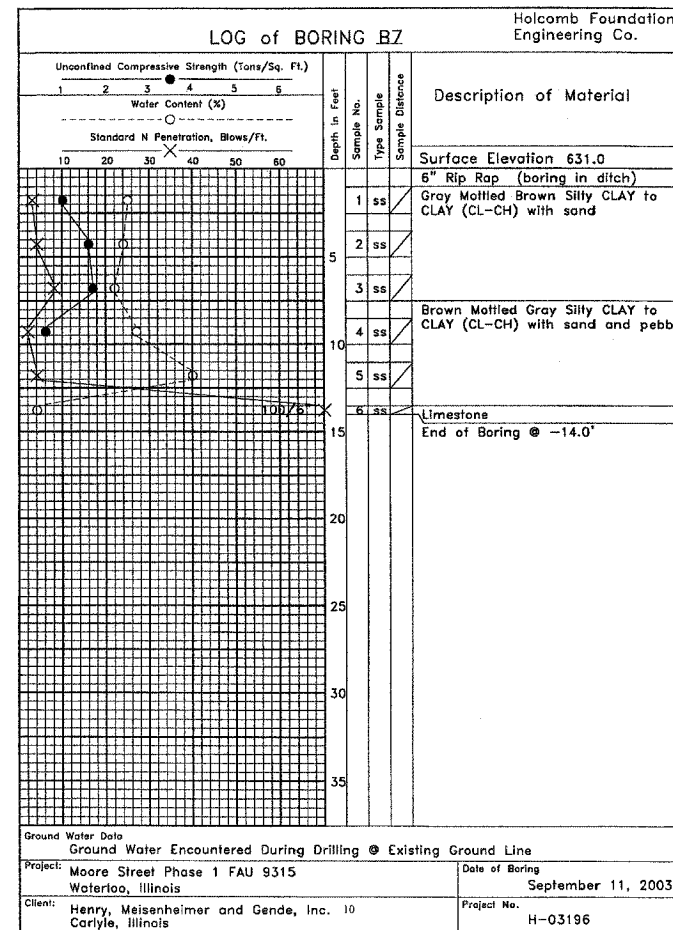
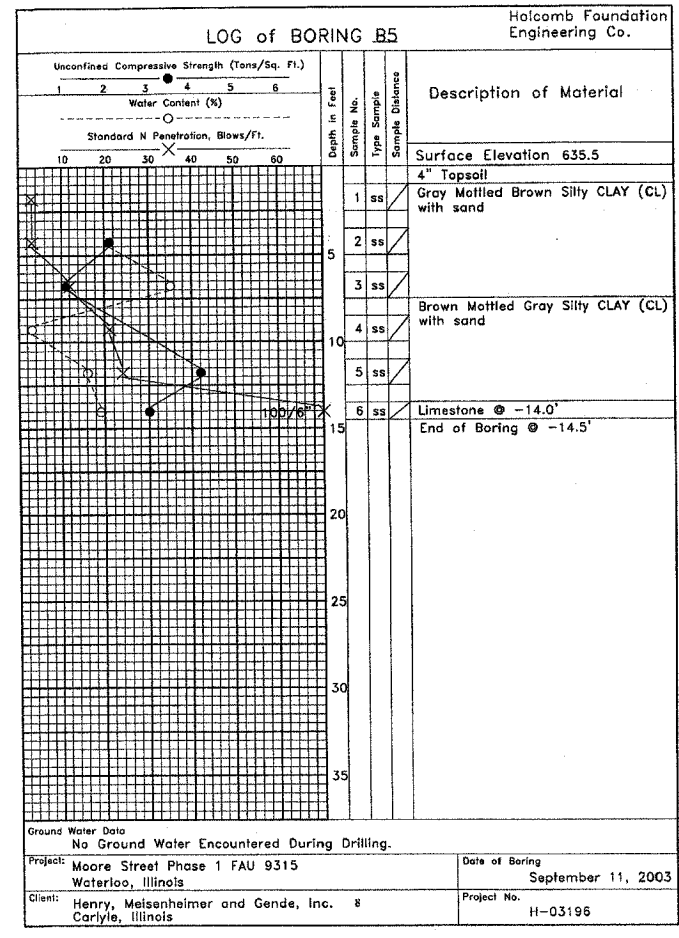
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	14	#4	24'-10"	—
h1(E)	11	#4	27'-0"	—
n(E)	61	#5	4'-0"	C
h(E)	102	#4	5'-4"	—
v(E)	41	#5	8'-3"	—
v1(E)	35	#5	6'-3"	—
w(E)	12	#4	24'-10"	—
w1(E)	12	#4	22'-10"	—
x(E)	12	#4	6'-10"	—
POROUS GRANULAR BACKFILL			CU. YD.	24.0
GEOTECHNICAL FABRIC FOR FRENCH DRAINS			SQ. YD.	96.0
CONCRETE STRUCTURES			CU. YD.	27.4
REINFORCEMENT BARS, EPOXY COATED			POUND	2,070
PIPE DRAINS, 6"			FOOT	50.0
ANTI-GRAFFITI PROTECTION SYSTEM			SQ. FT.	346.0

DESIGNED: B.G.H.
CHECKED: L.D.G.
DRAWN: K.O.J./C.R.W.
CHECKED: B.G.H.

RETAINING WALL
F.A.U. 9315 OVER DOUBLE
10'x6' CONCRETE BOX CULVERT
SECTION 00-00032-01-RP
MONROE COUNTY
S.N. 067-6008

4690/STRUCT-3.dgn CRW SEPT. 2, 2003

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



4690/STRUCT-4.dgn CRW SEPT. 30, 2003

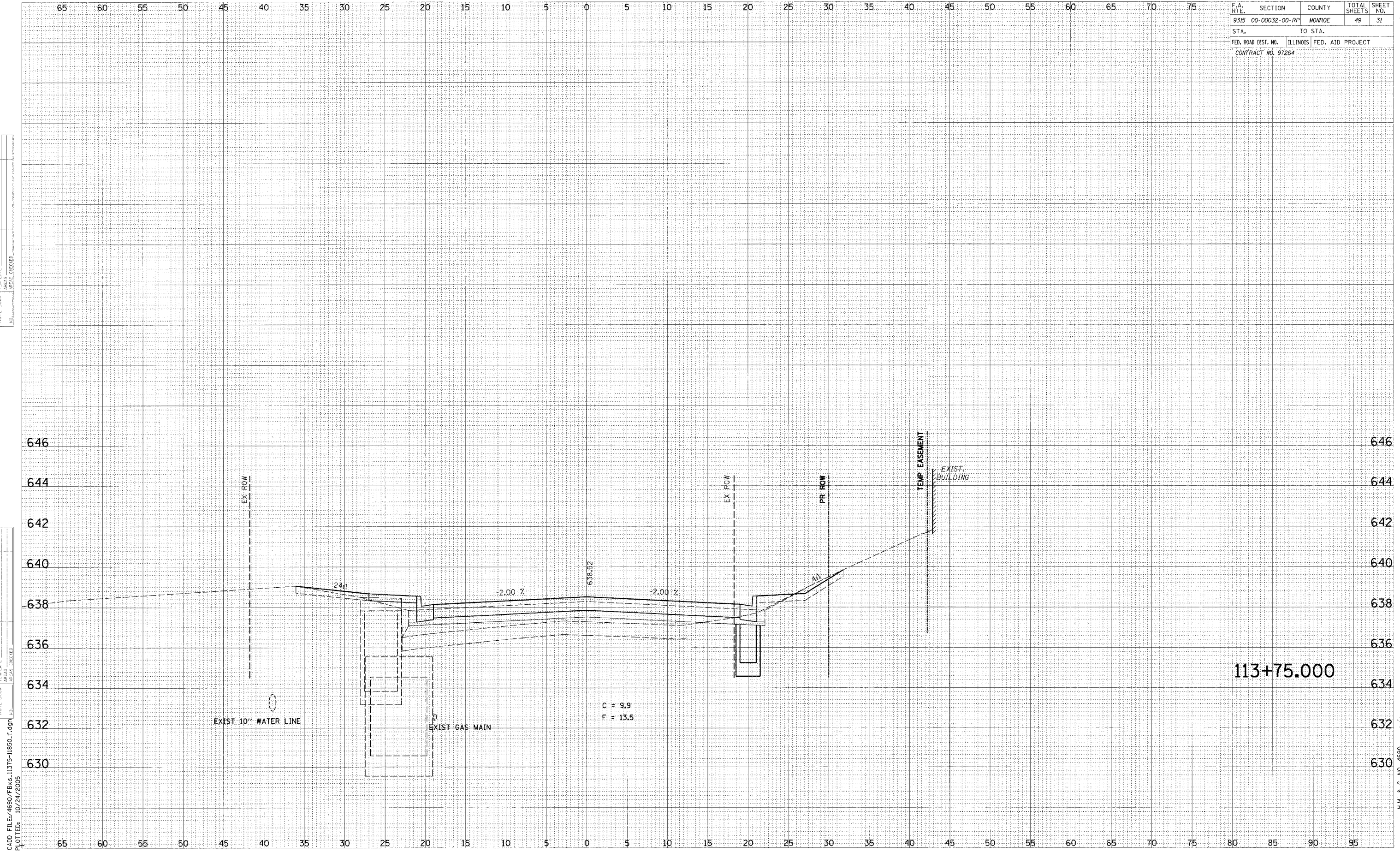
DESIGNED:	B.G.H.
CHECKED:	L.D.G.
DRAWN:	C.J.K./C.R.W.
CHECKED:	B.G.H.

BORING LOGS
F.A.U. 9315 OVER DOUBLE
10'x6' CONCRETE BOX CULVERT
SECTION 00-00032-01-RP
MONROE COUNTY
S.N. 067-6008

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

FINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

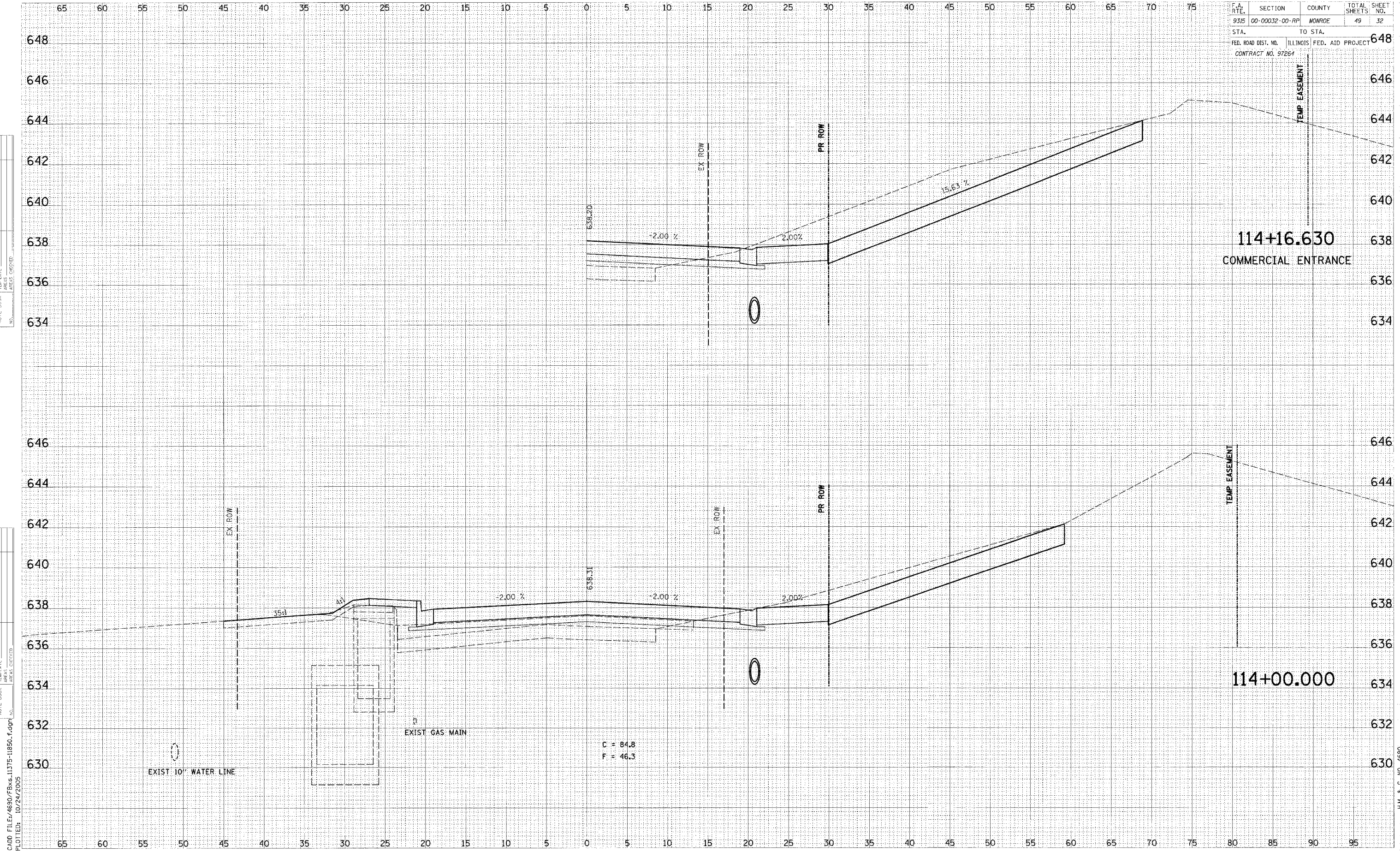


H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
93IS	00-00032-00-RP	MONROE	49	32
STA.	TO STA.		648	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

DATE	BY	
REVISIONS		
NO.	DATE	DESCRIPTION

DATE	BY	
REVISIONS		
NO.	DATE	DESCRIPTION

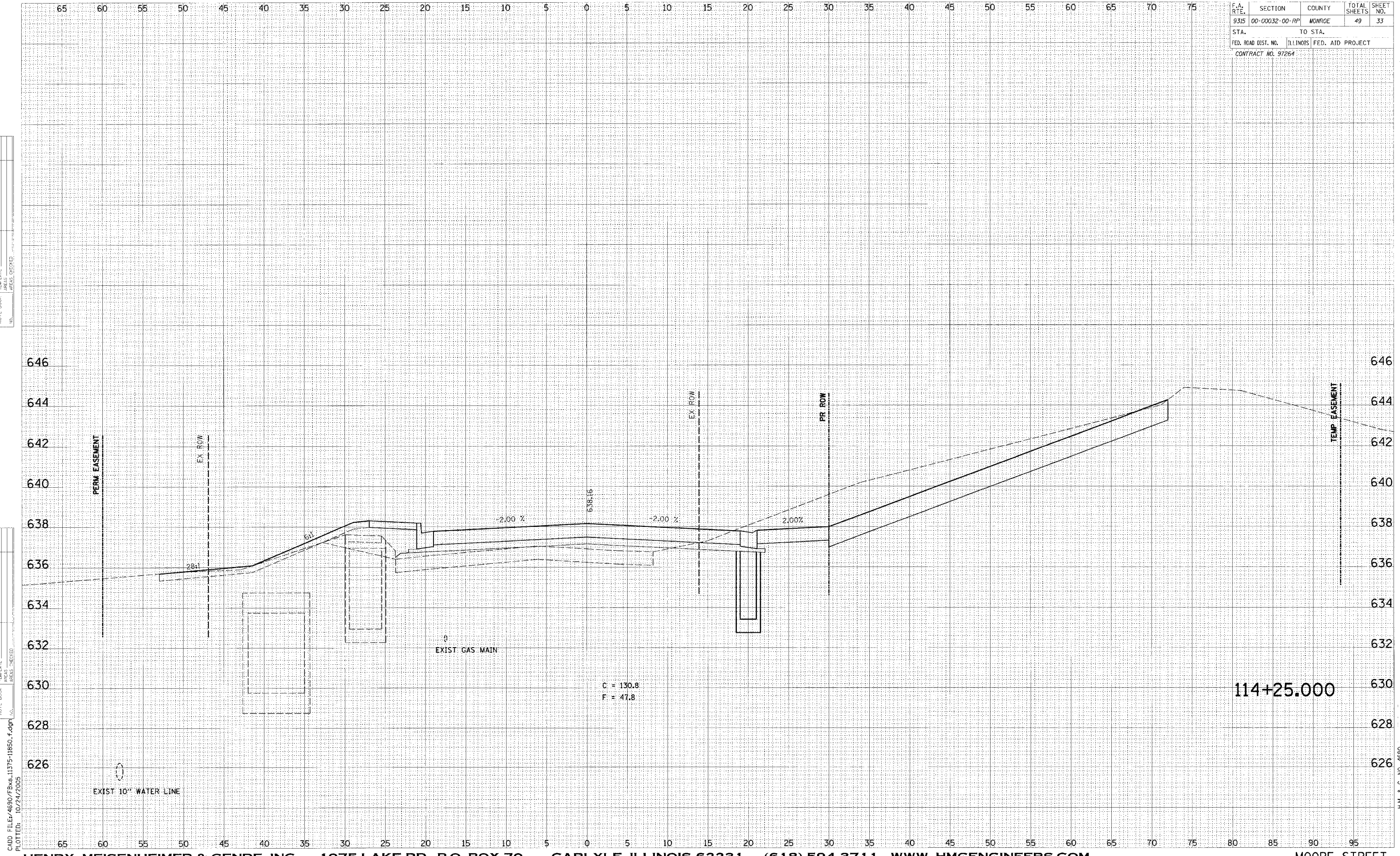


H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

FINAL SURVEY	DATE
NO. _____	BY _____
REVISIONS	DATE
1. _____	BY _____
2. _____	BY _____
3. _____	BY _____
4. _____	BY _____
5. _____	BY _____
6. _____	BY _____
7. _____	BY _____
8. _____	BY _____
9. _____	BY _____
10. _____	BY _____

ORIGINAL SURVEY	DATE
NO. _____	BY _____
REVISIONS	DATE
1. _____	BY _____
2. _____	BY _____
3. _____	BY _____
4. _____	BY _____
5. _____	BY _____
6. _____	BY _____
7. _____	BY _____
8. _____	BY _____
9. _____	BY _____
10. _____	BY _____



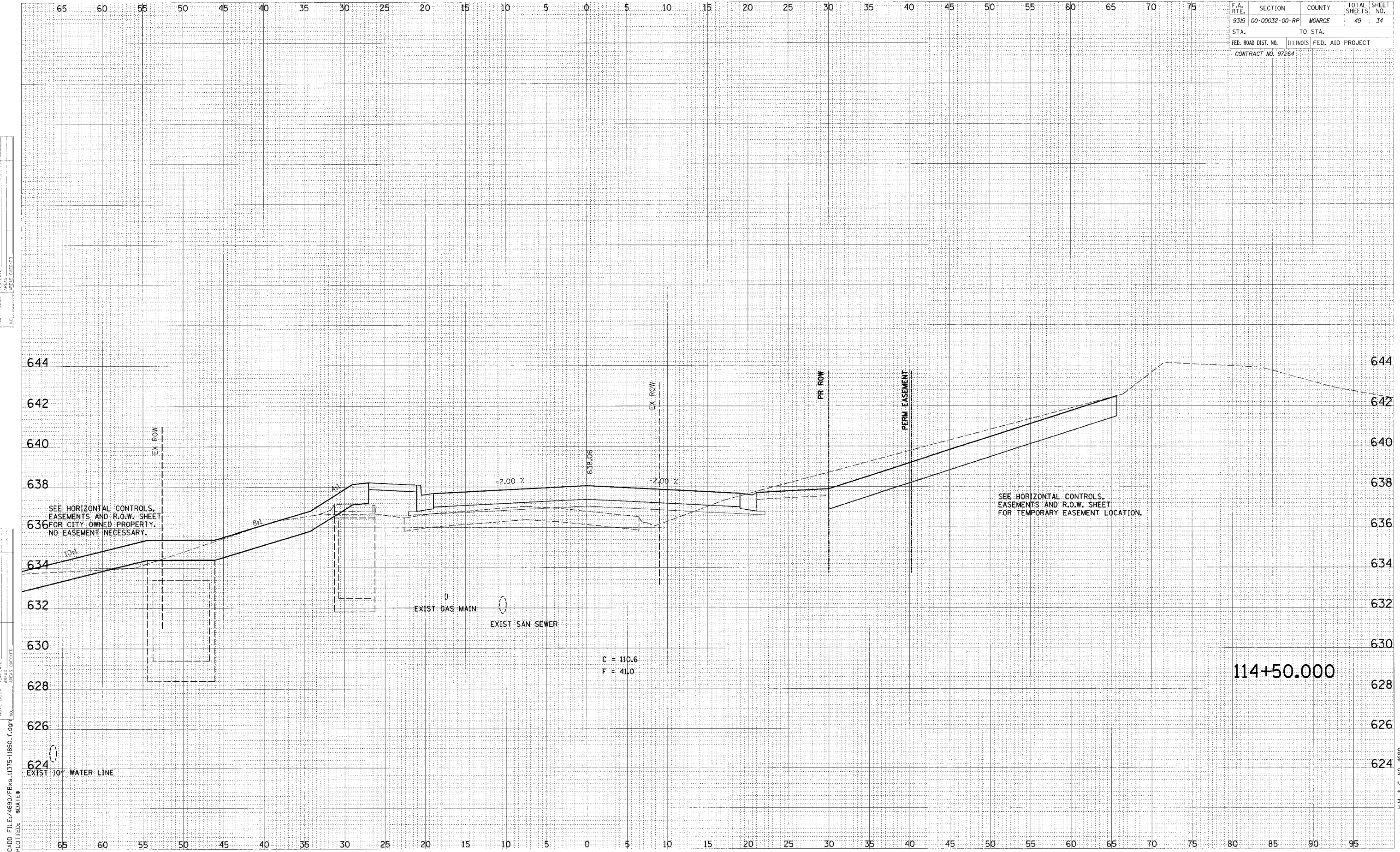
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 PLOTTED: 10/24/2005

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

FINAL SURVEY PLOTTED	DATE
NOTY BOOK	
AREAS	
AREAS	
AREAS	

ORIGINAL SURVEY PLOTTED	DATE
NOTE BOOK	
AREAS	
AREAS	
AREAS	

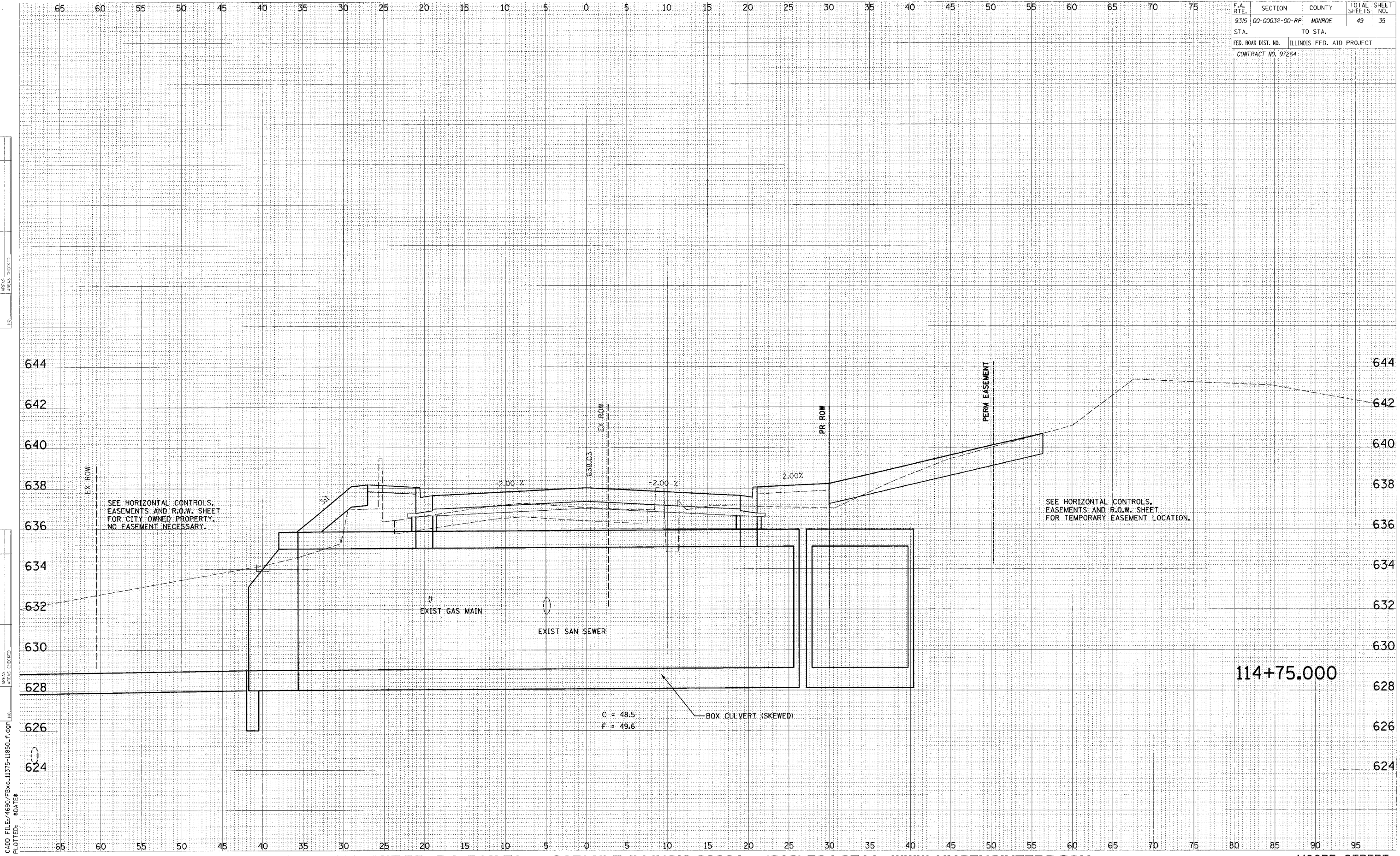


H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97264				

FINAL SURVEY	SURVEY	DATE
NOTE BOOK NO.	PLOTTED	
	TEMP. PLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEY	DATE
NOTE BOOK NO.	PLOTTED	
	TEMP. PLATE	
	AREAS CHECKED	



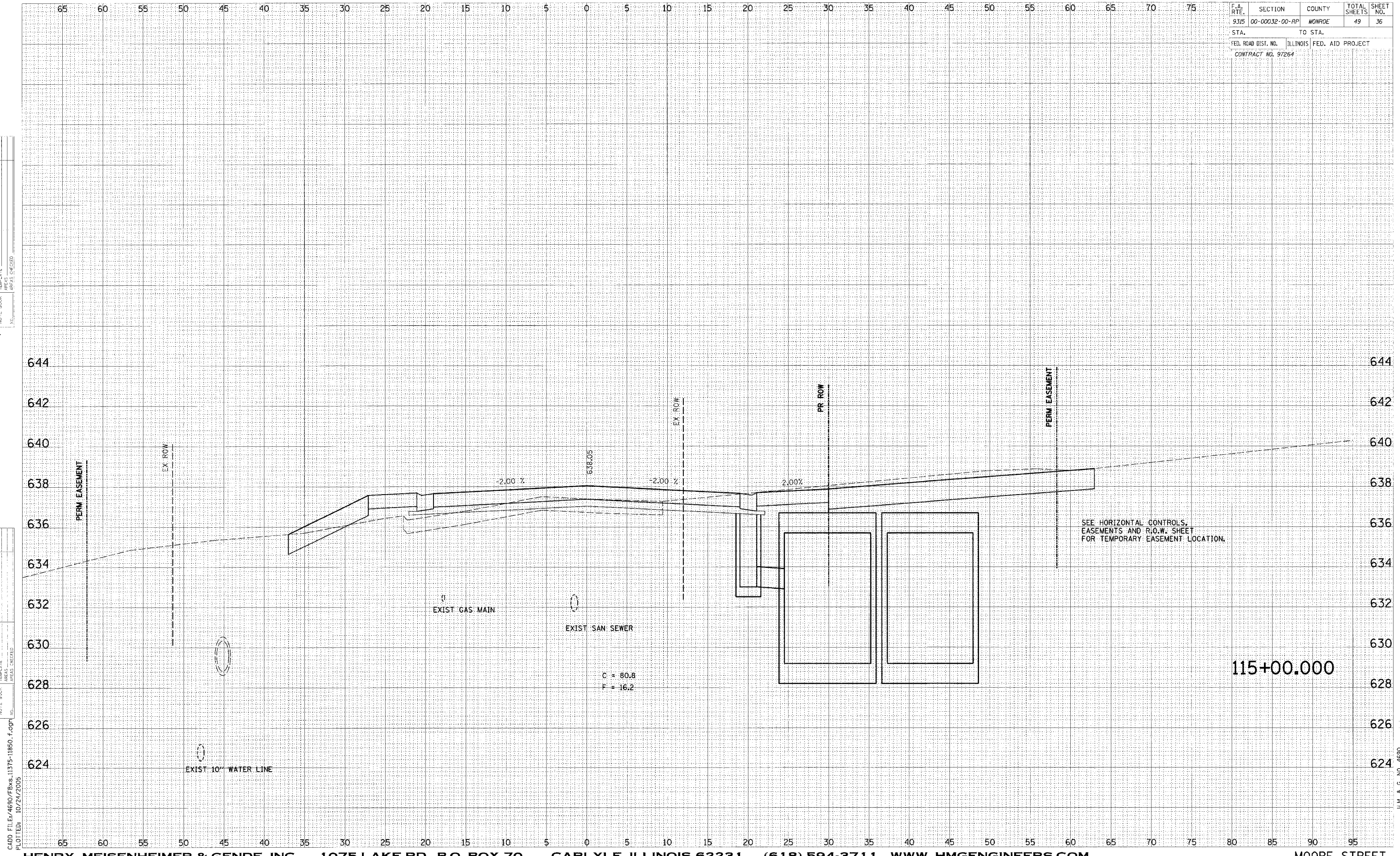
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H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

FINAL SURVEY	DATE
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	



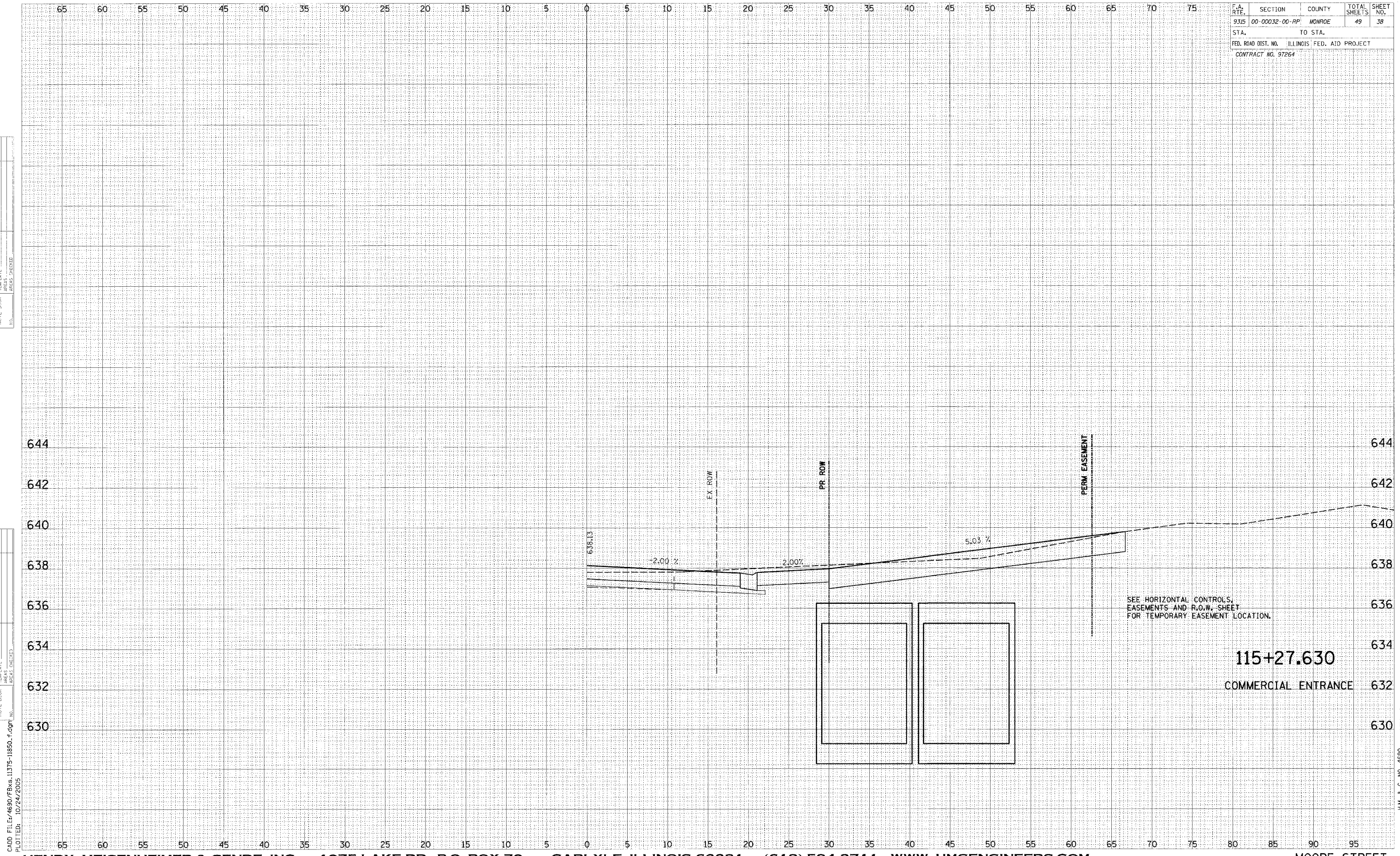
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 PLOTTED: 10/24/2005

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-PP	MONROE	49	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

FINAL SURVEY	BY	DATE
NO.		
REVISION	BY	DATE
NO.		
DESCRIPTION		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

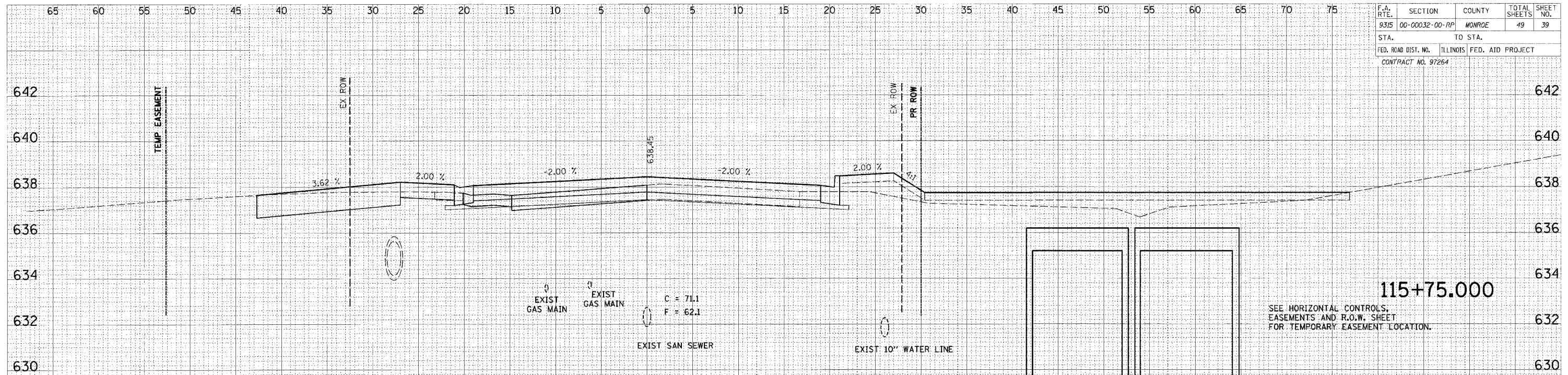
ORIGINAL SURVEY	BY	DATE
NO.		
REVISION	BY	DATE
NO.		
DESCRIPTION		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



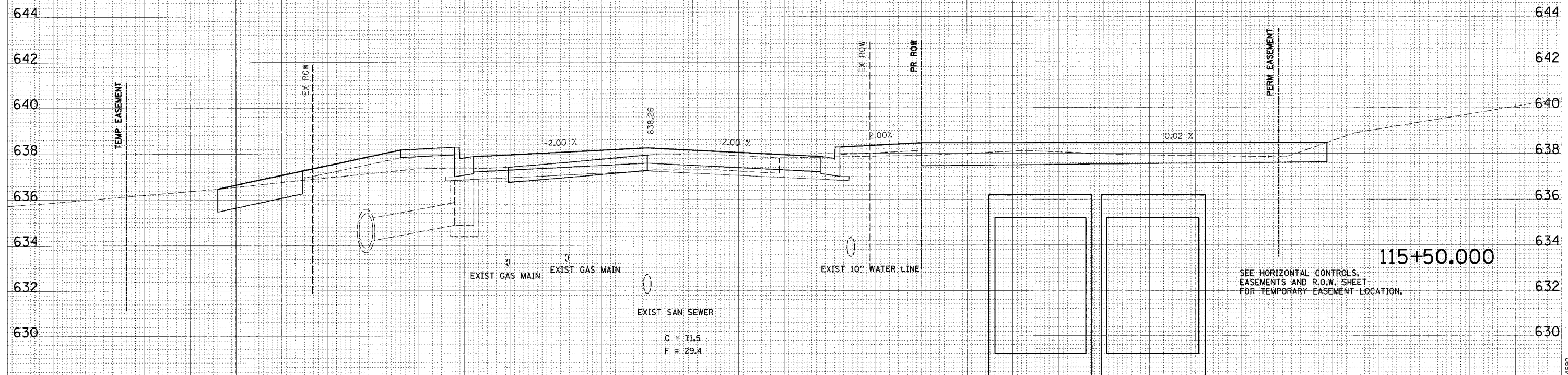
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 PLOTTED: 10/24/2005

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-PP	MONROE	49	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				



115+75.000
SEE HORIZONTAL CONTROLS, EASEMENTS AND R.O.W. SHEET FOR TEMPORARY EASEMENT LOCATION.



115+50.000
SEE HORIZONTAL CONTROLS, EASEMENTS AND R.O.W. SHEET FOR TEMPORARY EASEMENT LOCATION.

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

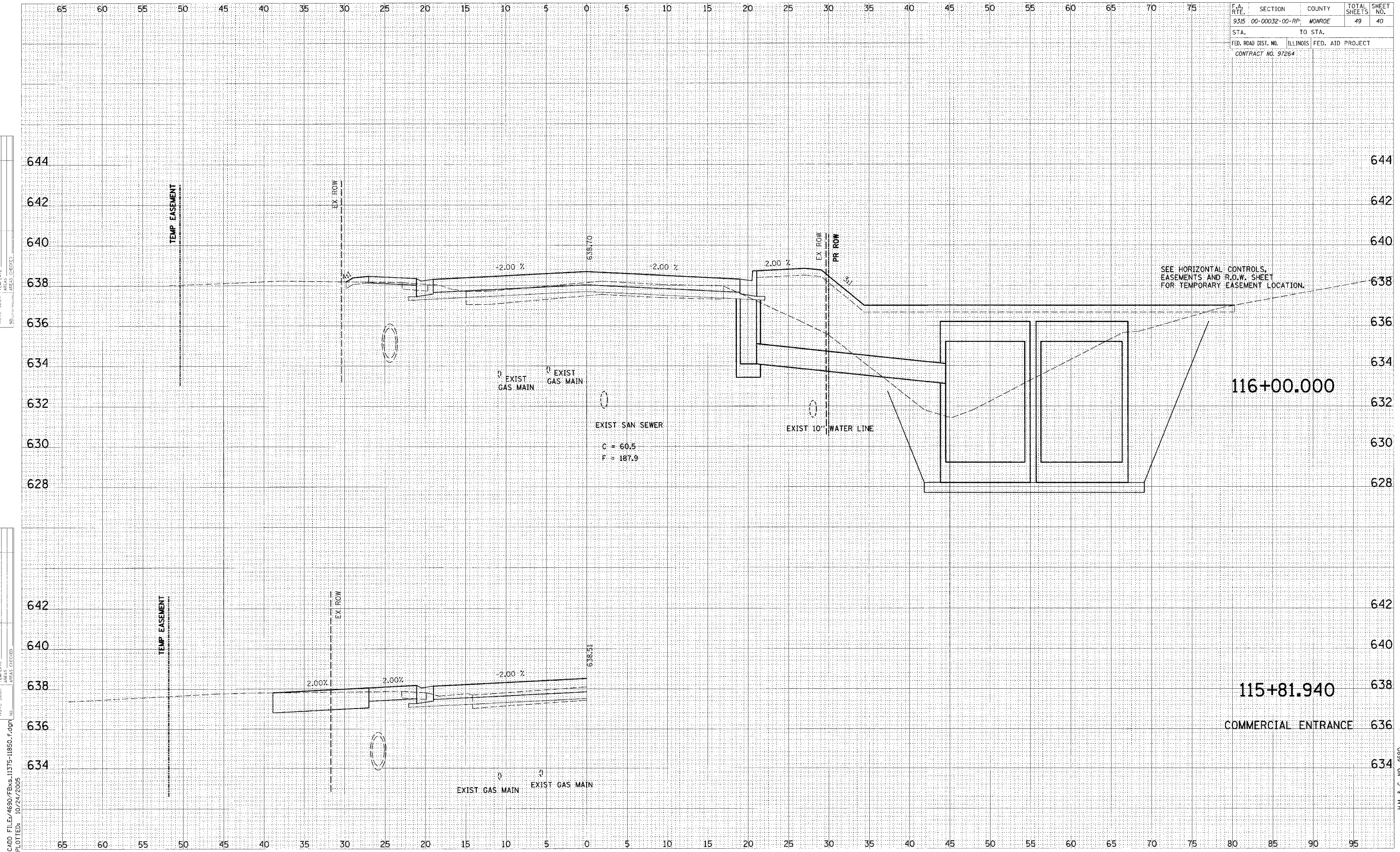
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PLOTTER: 10/24/2005

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-PP	MONROE	49	40
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

FINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS	
CREATED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS	
CREATED	



SEE HORIZONTAL CONTROLS, EASEMENTS AND R.O.W. SHEET FOR TEMPORARY EASEMENT LOCATION.

116+00.000

115+81.940

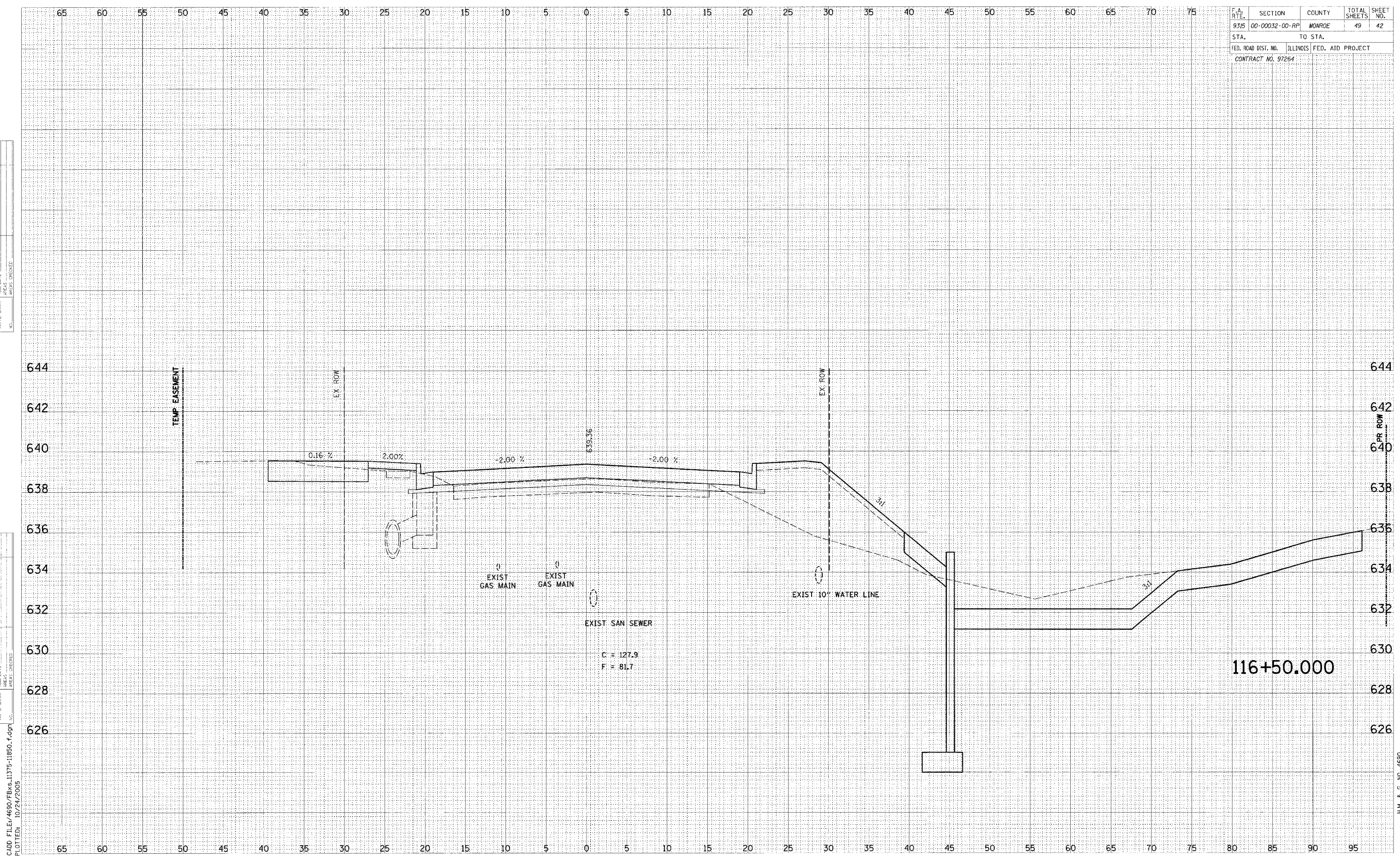
COMMERCIAL ENTRANCE

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	42
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97264				

FINAL SURVEY	DATE
BY	
NO. 1	

ORIGINAL SURVEY	DATE
BY	
NO. 1	



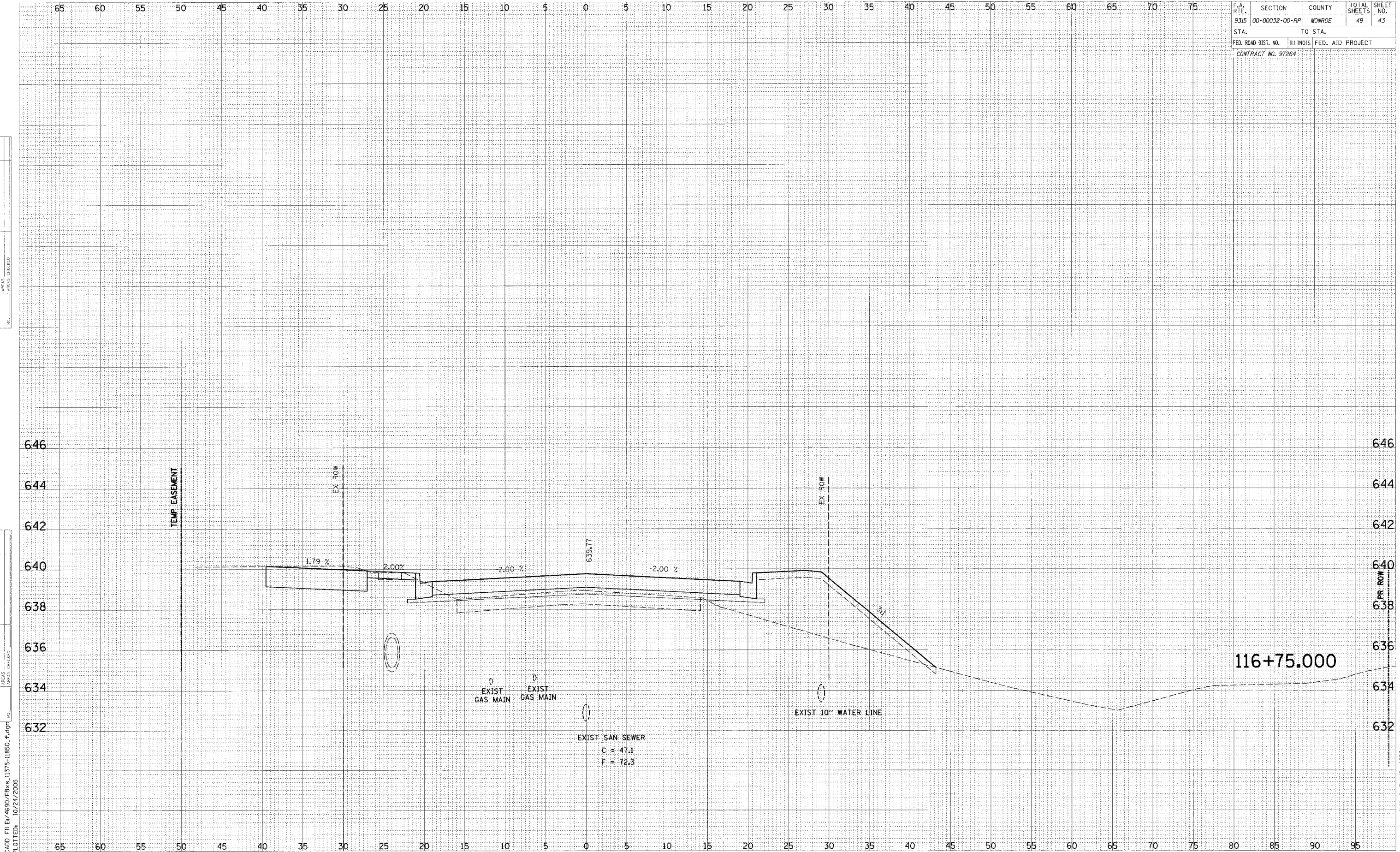
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 PLOTTED: 10/24/2005

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	43
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97264				

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

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

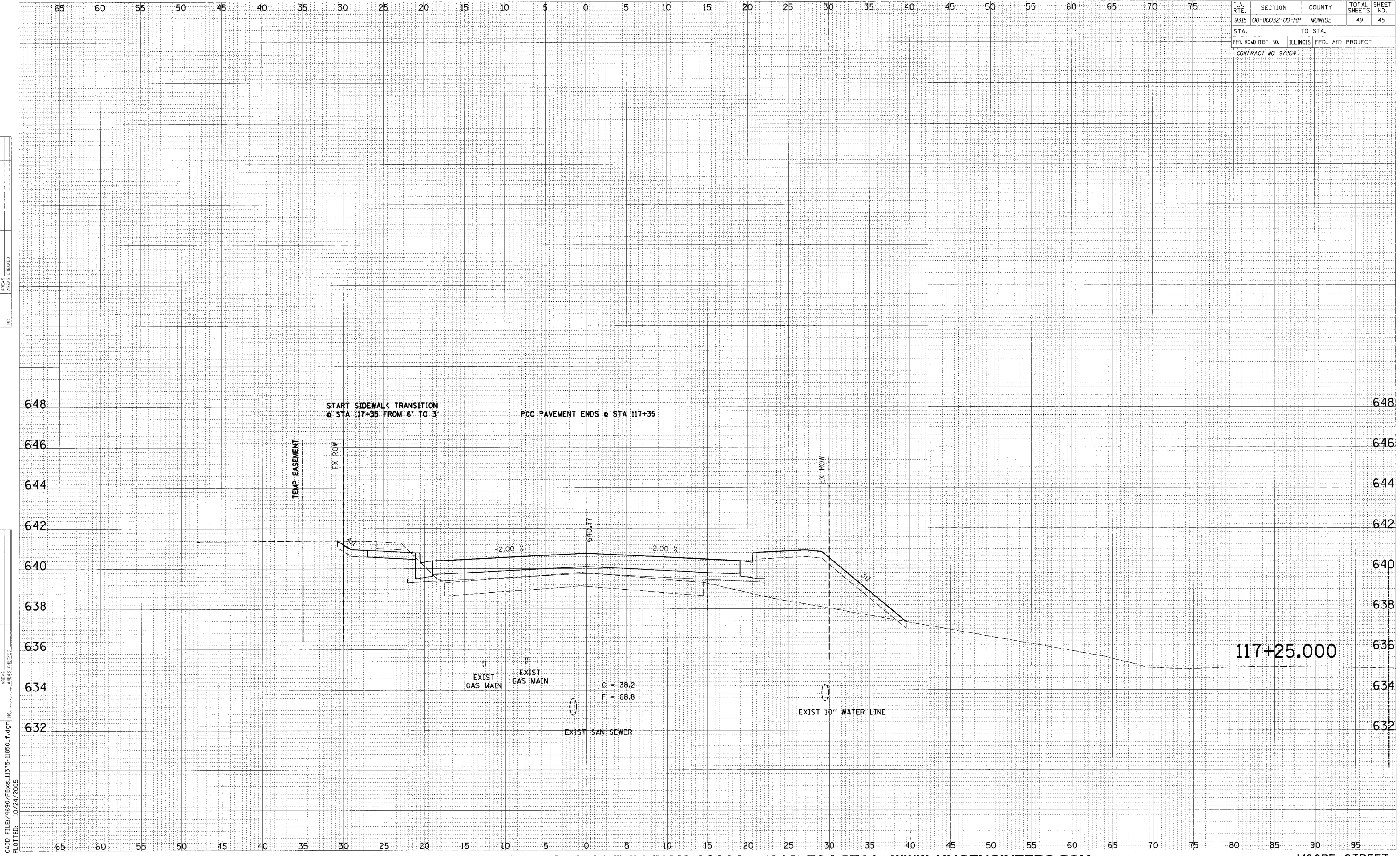


H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-PP	MONROE	49	45
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 97264				

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY



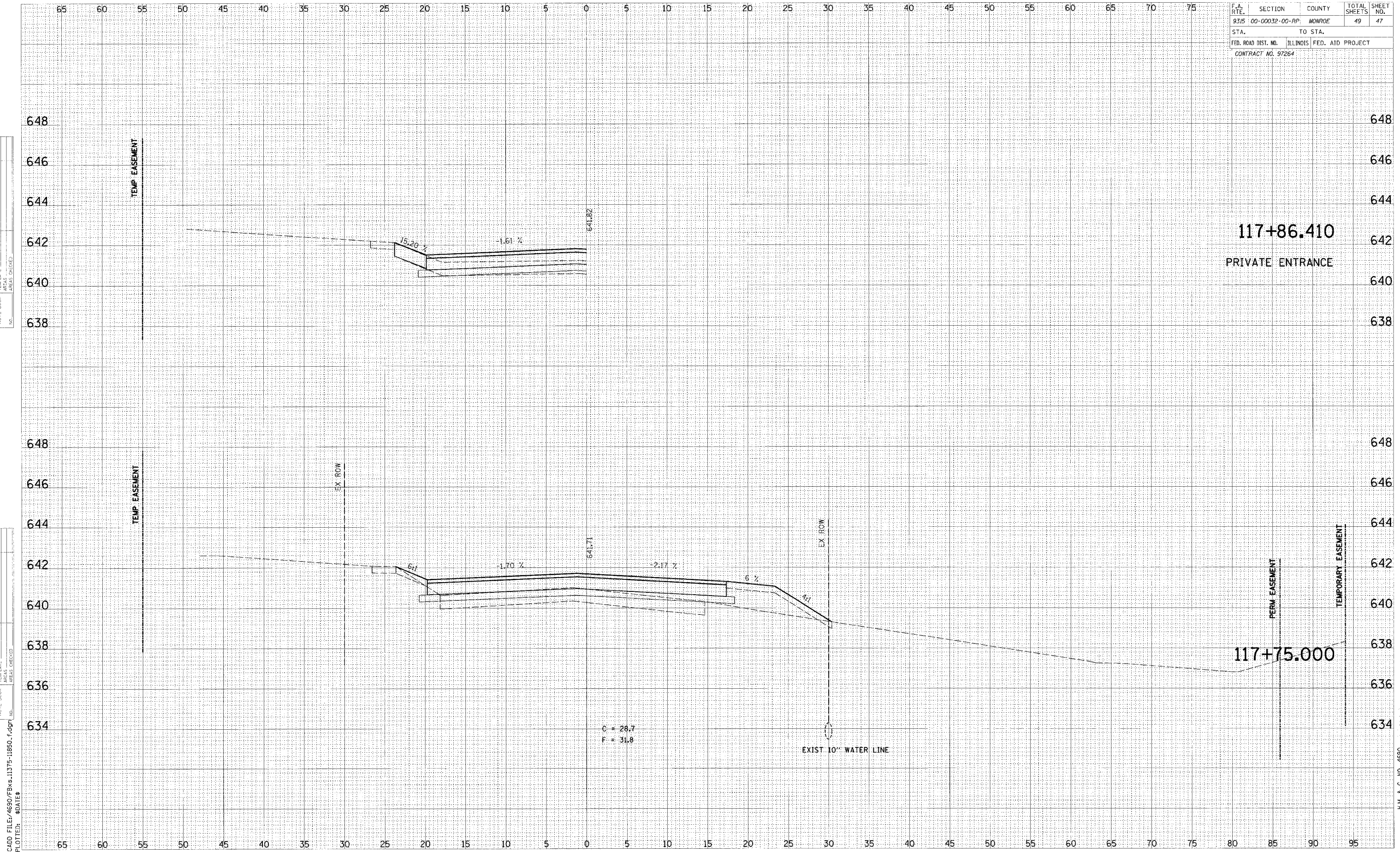
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PLOTTED: 10/24/2005

H.M. & C. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-PP	MONROE	49	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97264				

FINAL SURVEY	DATE
BY	
REVISIONS	
NO.	

ORIGINAL SURVEY	DATE
BY	
REVISIONS	
NO.	



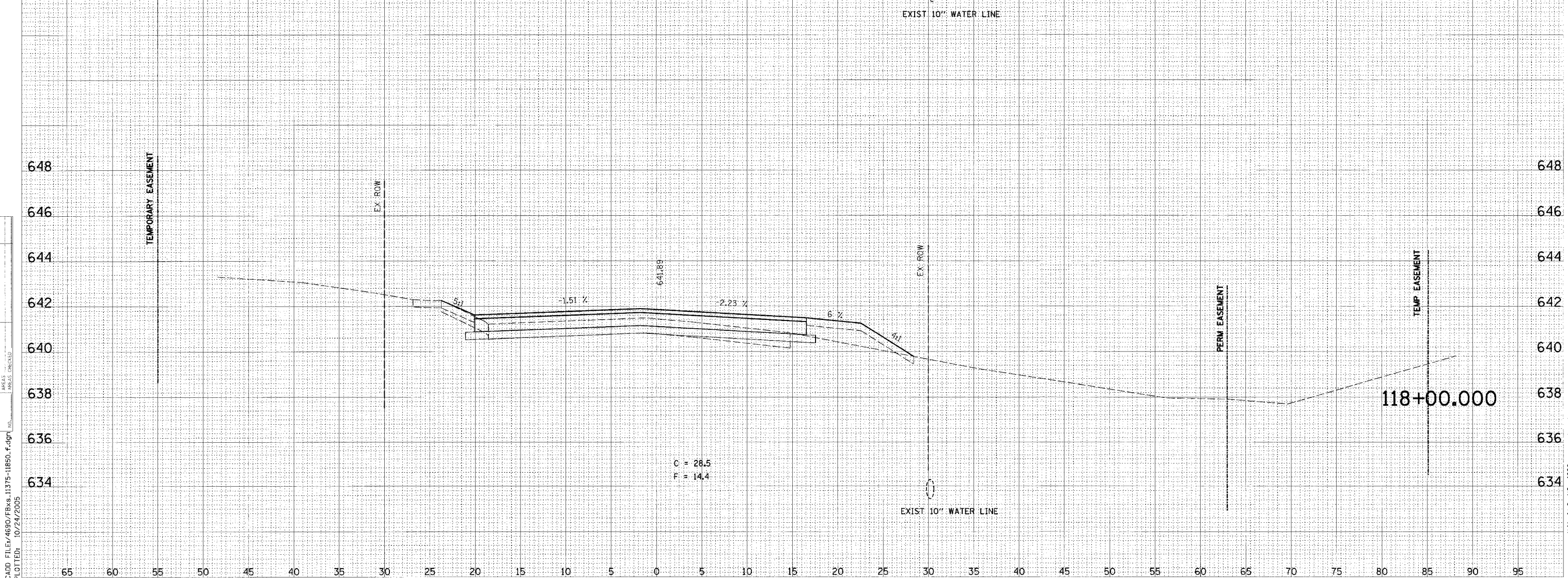
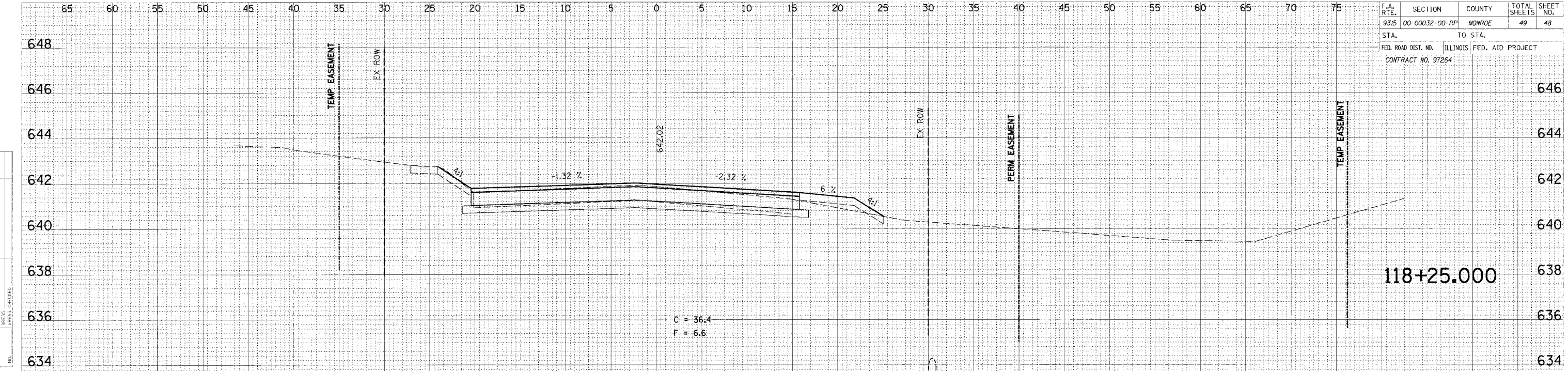
C = 28.7
F = 31.8

H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 97264				

DATE	BY

DATE	BY

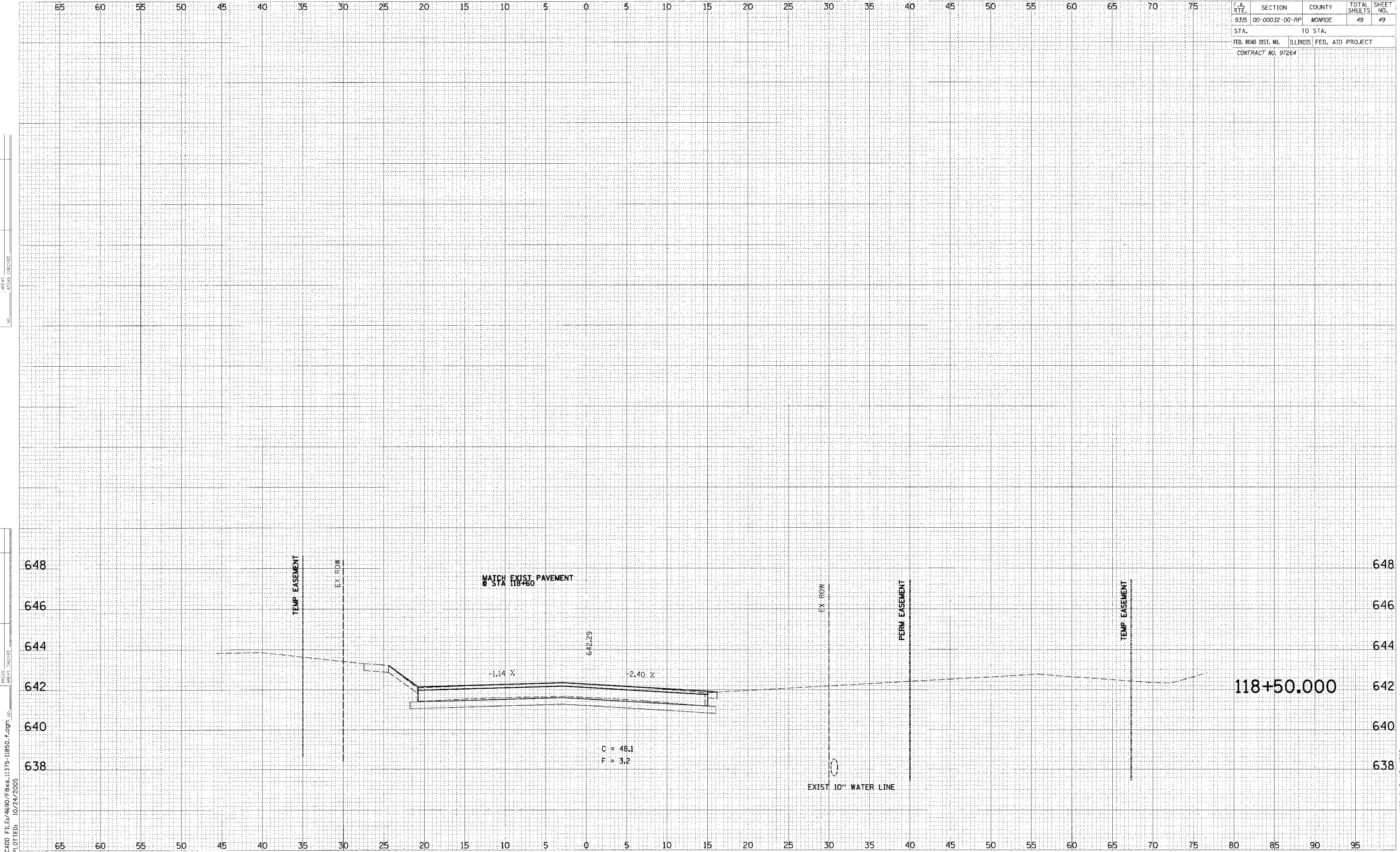


H.M. & G. NO. 4690

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9315	00-00032-00-RP	MONROE	49	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97264				

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

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



CADD FILE: 4690/FBxs.11375-11850.f.dgn
 PLOTTED: 10/24/2005

H.M. & G. NO. 4690