

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	1
COVER SHEET				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.U. 033
SOUTH STREET RESURFACING
SECTION 08-00109-00-RS
PROJECT NO. M-9003 (182)
CITY OF WOODSTOCK
McHENRY COUNTY
JOB NO. C-91-230-09

INDEX TO SHEETS

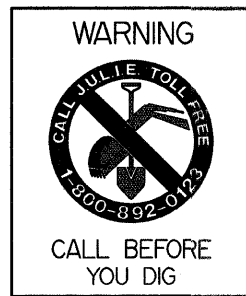
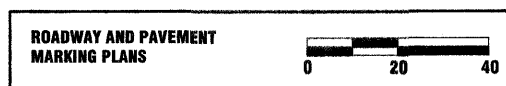
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, TYPICAL SECTION AND SUMMARY OF QUANTITIES
3	SUMMARY OF QUANTITIES
4-7	PLAN SHEETS
8	BOX CULVERT EXTENSION DETAILS
9-25	ROADWAY CROSS SECTIONS
26-28	PROFILES
29-32	DISTRICT 1 STANDARDS

STATE STANDARDS

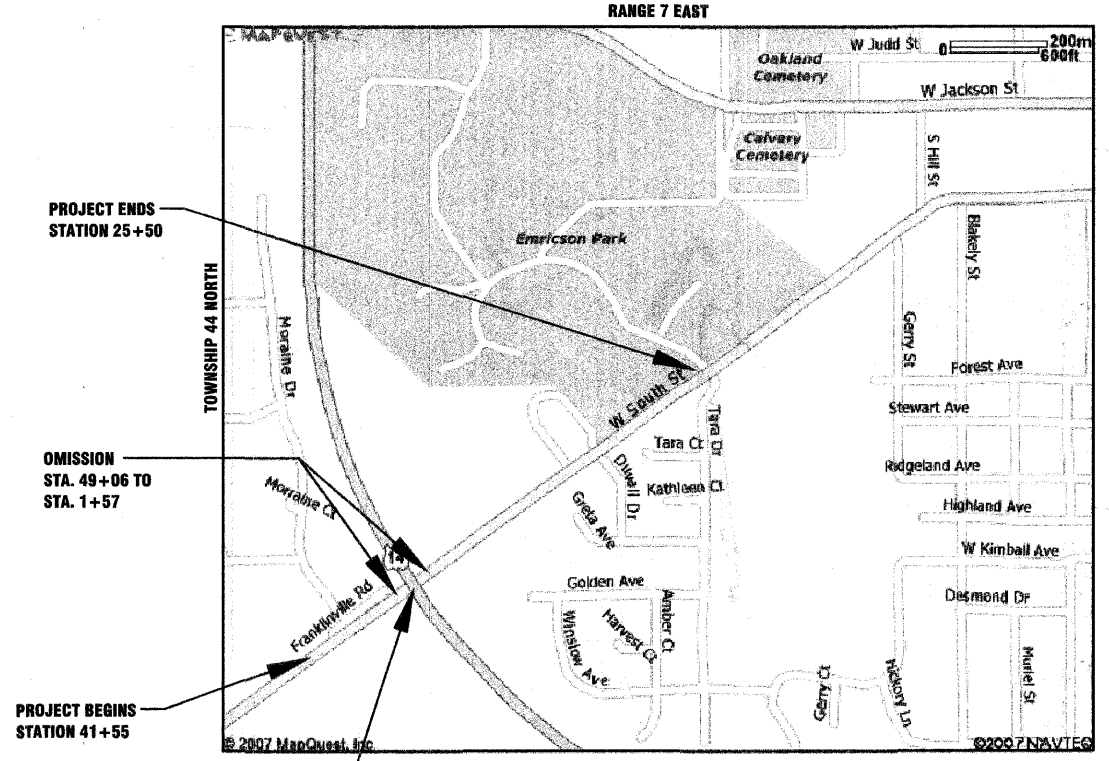
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-01	CATCH BASIN, TYPE A
602011-01	CATCH BASIN, TYPE C
602301-02	INLET, TYPE A
602401-02	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLABTOP
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-08	STEEL PLATE BEAM GUARDRAIL
631006-06	TRAFFIC BARRIER TERMINAL, TYPE 1B
631031-07	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR & TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

CITY STANDARDS - INCLUDED IN PROPOSAL BOOKLET

- FRAMES AND GRATES
- SANITARY SEWER AND STORM SEWER TRENCH SECTION (IN NON-PAVED AREAS)
- SANITARY SEWER AND STORM SEWER TRENCH SECTION (IN PAVED AREAS)
- TYPICAL INSTALLATION HYDRANT
- COMBINATION CONCRETE CURB AND GUTTER, 8-6.12
- REINFORCING CURB & GUTTER OR SIDEWALK INSTALLED OVER A TRENCH
- CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS
- CASTING ADJUSTMENTS FOR STRUCTURES WITHIN THE CURB LINE
- SIDEWALK
- BUTT JOINT DETAIL
- TYPICAL RESIDENTIAL DRIVEWAY DETAIL



ADT = 2300
POSTED SPEED LIMIT = 45 MPH
DESIGN SPEED = 45 MPH
CONTRACT NO. 63169



PROJECT ENDS
STATION 25+50

OMISSION
STA. 49+06 TO
STA. 1+57

PROJECT BEGINS
STATION 41+55

STATION EQUATION
STA. 51+00 BACK =
STA. 1+00 AHEAD

LOCATION MAP
APPROXIMATE SCALE 1" = 600'
GROSS LENGTH OF PROJECT = 3395 LF (0.634 MILE)
NET LENGTH OF PROJECT = 3144 LF (0.596 MILE)



LOCATION OF SECTION INDICATED THIS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED APRIL 10 2009
J. W. Gahl
CITY OF WOODSTOCK

PASSED APRIL 10 2009
CHUBBY CHRISTOPHER
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW APRIL 10 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS REGION 1 ENGINEER

FEDERAL DESIGN ENGINEER: ALEX HOUSEH (847)705-4410

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OF THE STATE OF ILLINOIS

DATE: <u>4-10-09</u>	LICENSE NO. 38485			Hampton Lenzini and Renwick, Inc. Civil Engineers Land Surveyors 380 Shepard Drive Elgin, Illinois 60123-7010 847.697.6700
BY: <u>Mark A. Stott</u>	LICENSE EXPIRES: <u>NOVEMBER 30, 2009</u>			

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHTS. NO.
033	08-00109-00-RS	McHENRY	32	2
GENERAL NOTES, LEGEND & TYPICAL SECTIONS				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

GENERAL NOTES

ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2007, (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2009; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF WOODSTOCK IF ANY MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.

THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC AND PRIVATE UTILITIES IS APPROXIMATE AND THEIR EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR A PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL ELEVATIONS ARE ON AN ASSUMED LOCAL DATUM.

WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS AND CATCH BASINS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ALL ITEMS TO BE REMOVED SHALL BE SAW CUT TO A DEPTH TO ENSURE REMOVAL WITHOUT DAMAGE TO ADJACENT FEATURES TO REMAIN IN PLACE. THE COST OF SAWCUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HIS WORK. ANY WORK THAT IS VANDALIZED OR OTHERWISE DAMAGED AND JUDGED UNACCEPTABLE BY THE CITY SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.

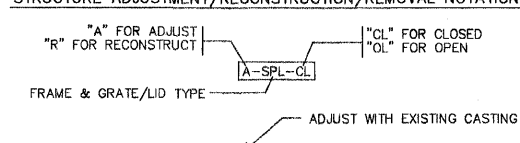
LEGEND

- EXISTING BUSH
- EXISTING DECIDUOUS TREE
- STREET ADDRESS
- EXISTING DRAINAGE MANHOLE
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED INLET
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING UNDERGROUND GAS
- EXISTING LIGHT STANDARD
- EXISTING HANDHOLE
- MAIL BOX
- EXISTING POWER POLE
- DEPRESSED CURB
- BITUMINOUS SURFACE REMOVAL
- PAVEMENT REMOVAL AND REPLACEMENT
- CURB AND GUTTER REMOVAL
- SIDEWALK REMOVAL
- DETECTABLE WARNINGS
- DRIVEWAY PAVEMENT REMOVAL

SEWER STRUCTURE AND PIPE NOTATION

FRAME & GRATE/LID TYPE	A-TC	4" DIA	DIAMETER
STRUCTURE TYPE	85+43	21' RT	STATION & OFFSET
TOP OF FRAME (FR) OR CURB (TC) ELEVATION	TC	987.65	
	INV(W)	985.42	INVERT DIRECTION & ELEVATION
	INV(S)	985.30	
PIPE DIAMETER	18" SS	Ty2	SEWER TYPE
MATERIAL	ROCP	CL IV	MATERIAL CLASS
LENGTH	113'	@ 0.72%	SLOPE
	TB	22 CY 51'	
TRENCH BACKFILL QUANTITY			LENGTH OF TRENCH BACKFILL

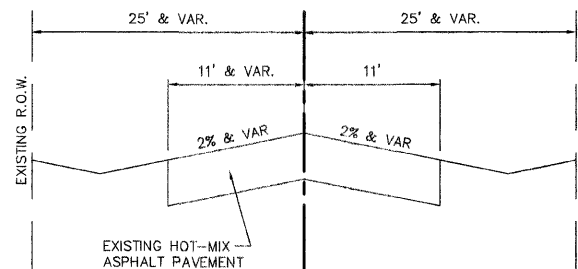
STRUCTURE ADJUSTMENT/RECONSTRUCTION/REMOVAL NOTATION



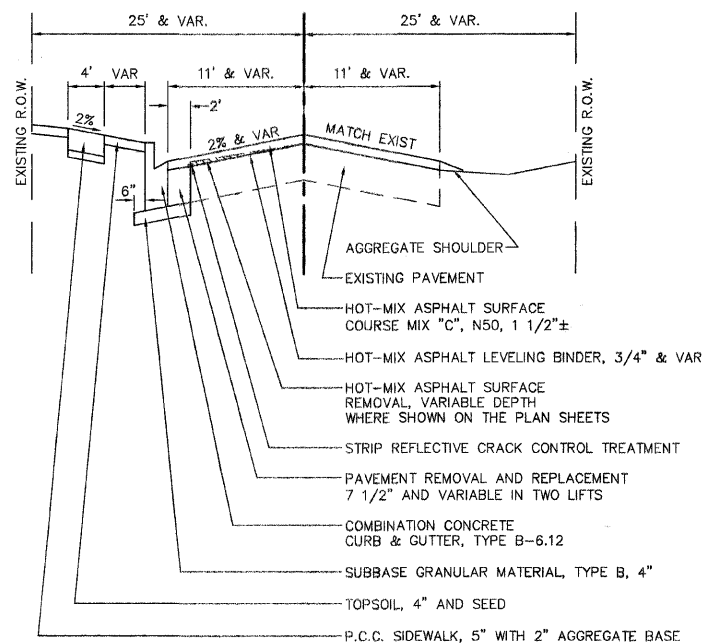
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm)	PG 64-22	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N60	PG 69-22*	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5mm)	PG 64-22*	4% @ 50 GYR.
DRIVEWAYS		
HMA SURFACE COURSE, MIX C, N50 (IL 9.5mm); 2"	PG 64-22	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19.0); PE-6"	PG 64-22*	4% @ 50 GYR.
HOT-MIX ASPHALT SHOULDERS, 4"		
HMA SURFACE COURSE, MIX C, N50 (IL 9.5mm); 2"	PG 64-22	4% @ 50 GYR.
HMA BINDER COURSE, (IL-19.0) N50; 2"	PG 64-22*	4% @ 50 GYR.
PAVEMENT REMOVAL AND REPLACEMENT		
HMA BASE COURSE (HMA BINDER IL-19.0); 7 1/2"	PG 64-22*	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 * WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG58-22.

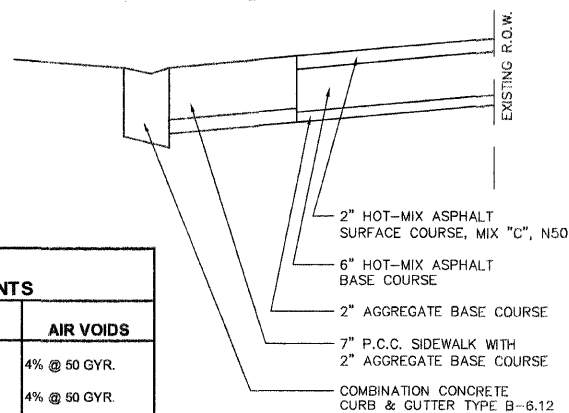
**SOUTH STREET
EXISTING TYPICAL SECTION**



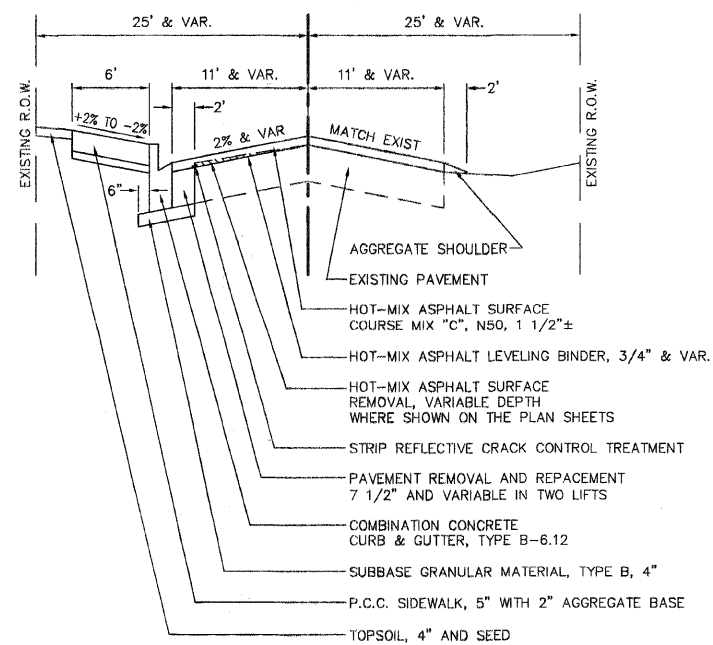
**SOUTH STREET
PROPOSED TYPICAL SECTION
STA 1+57 TO 7+00
STA 12+00 TO 17+75**



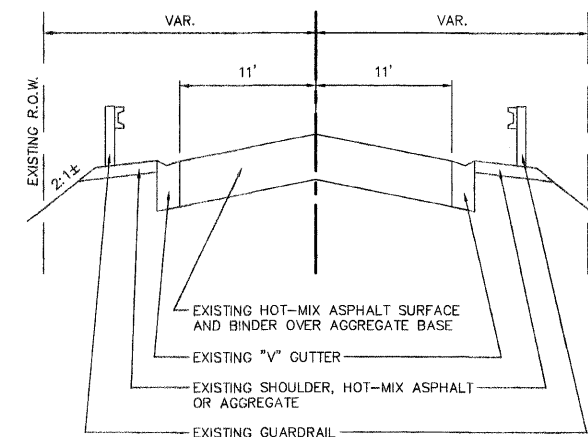
HOT-MIX ASPHALT DRIVEWAY DETAIL



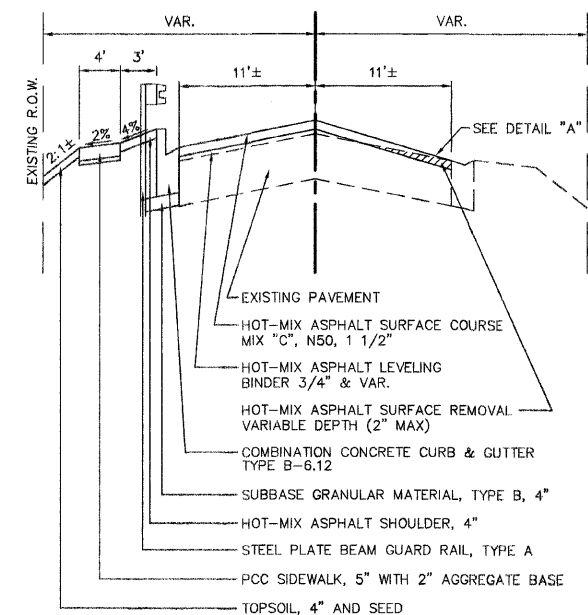
**SOUTH STREET
PROPOSED TYPICAL SECTION
STA 7+00 TO 12+00
STA 17+75 TO 24+50**



**SOUTH STREET
EXISTING TYPICAL SECTION
STA. 41+55 TO 49+06**



**SOUTH STREET
PROPOSED TYPICAL SECTION
STA. 41+55 TO 49+06**



SUMMARY OF QUANTITIES

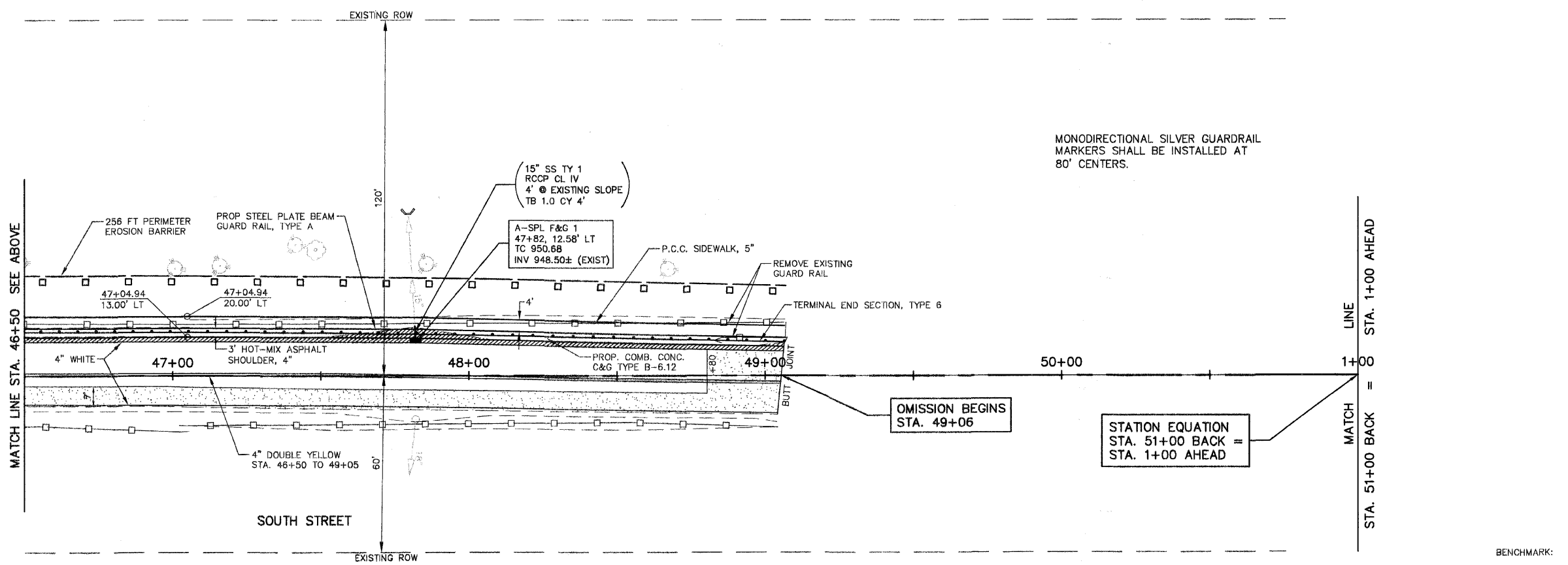
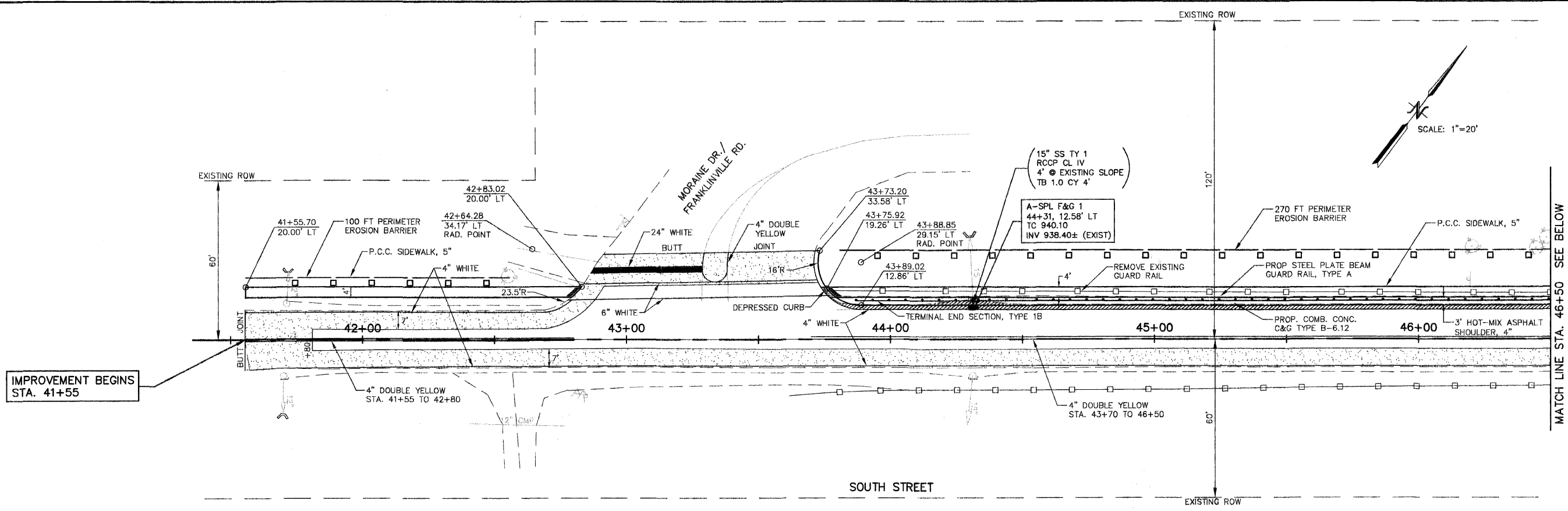
F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS. NO.
033	08-00109-00-RS	McHENRY	32 3
SUMMARY OF QUANTITIES			
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169			

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONST. CODES	PART. QUANTITY	NON-PART. QUANTITY	SP
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	LNT	8	1000		8	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	LNT	16	1000		16	
20200100	EARTH EXCAVATION	CUYD	371	1000		371	
20201500	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	198	1000		198	
20400800	FURNISHED EXCAVATION	CUYD	713	1000		713	
20800150	TRENCH BACKFILL	CUYD	234	1000		146	88
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5514	1000		5514	
25000115	SEEDING, CLASS 1B	ACRE	1.1	1000		1.1	
25100630	EROSION CONTROL BLANKET	SQ YD	5514	1000		5514	
28000400	PERIMETER EROSION BARRIER	FOOT	1476	1000		1476	
28000510	INLET FILTERS	EACH	19	1000		19	
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	913	1000		913	
40600300	AGGREGATE (PRIME COAT)	TON	36	1000		36	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	258	1000		258	
40603310	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	TON	821	1000		821	
42001300	PROTECTIVE COAT	SQ YD	2082	1000		2082	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	13462	1000		13452	
42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	994	1000		994	
42400800	DETECTABLE WARNINGS	SQ FT	88	1000		88	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2744	1000		2744	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	225	1000		225	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	762	1000		762	
44000600	SIDEWALK REMOVAL	SQ FT	751	1000		751	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1566	1000		1566	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	110	1000		110	
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	177	1000		177	
50105200	REMOVE EXISTING CULVERTS	EACH	4	1000		4	
54003000	CONCRETE BOX CULVERTS	CUYD	5.6	1000		5.6	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1000		1	
△ 56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	1000		2	
△ 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CUYD	75	1000			75
60255500	MANHOLES TO BE ADJUSTED	EACH	3	1000		3	
60600600	REMOVING INLETS	EACH	2	1000		2	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	2120	1000		2120	
△ 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	450	1000		450	
△ 63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	1	1000		1	
△ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1000		1	
63200310	GUARDRAIL REMOVAL	FOOT	560	1000		560	
△ 63301300	REMOVE AND RE-BESET TERMINAL SECTION, SINGLE RAIL	EACH	1	1000		1	
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SLM	1	1000		1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	550	1000		550	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	12600	1000		12600	
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9720	1000		9720	
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	544	1000		544	
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	95	1000		95	
△ 78200405	GUARDRAIL MARKERS	EACH	22	1000		22	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3400	1000		3400	
50200100	STRUCTURE EXCAVATION	CUYD	9	1000		9	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	654	1000		654	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	260	1000		260	
X0322054	REMOVAL OF PRECAST FLARED END SECTION	EACH	4	1000		4	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	1000		52	
X0856300	PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	405	1000		405	
XX006806	HOT-MIX ASPHALT DRIVEWAY PAVEMENT	SQ YD	156	1000		156	
△ Z0056900	SANITARY SEWER 8"	FOOT	164	1000			164
△ Z0076600	TRAINERS	HOUR	500	Y080		500	
XX008020	CATCH BASINS, TYPE A, 4'-DIAMETER, SPECIAL FRAME, OPEN LID	EACH	1	1000		1	
XX008024	CATCH BASINS, TYPE A, 4'-DIAMETER, SPECIAL FRAME AND GRATE NO. 1	EACH	1	1000		1	
XX008025	CATCH BASINS, TYPE C, SPECIAL FRAME, OPEN LID	EACH	2	1000		2	
XX008026	CATCH BASINS, TYPE C, SPECIAL FRAME AND GRATE NO. 1	EACH	3	1000		3	
60220240	MANHOLES, TYPE A, 4'-DIAMETER, SPECIAL FRAME, CLOSED LID	EACH	2	1000		2	
XX008027	INLETS, TYPE A, SPECIAL FRAME AND GRATE NO. 1	EACH	5	1000		5	

△ SPECIALTY ITEMS

△ Y080

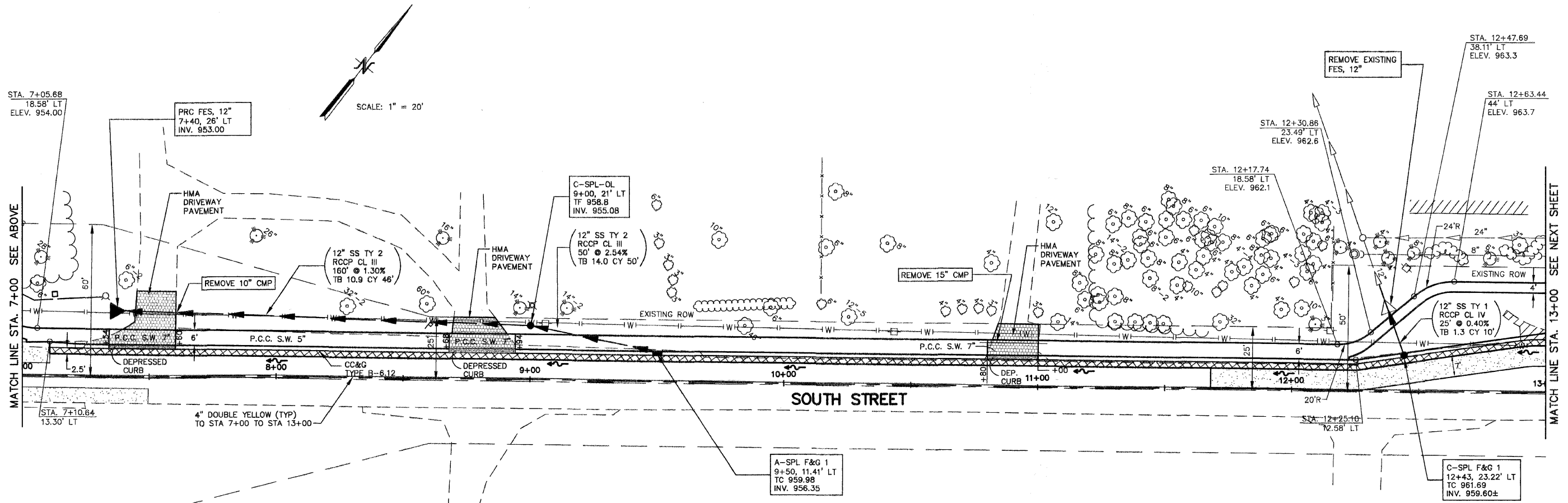
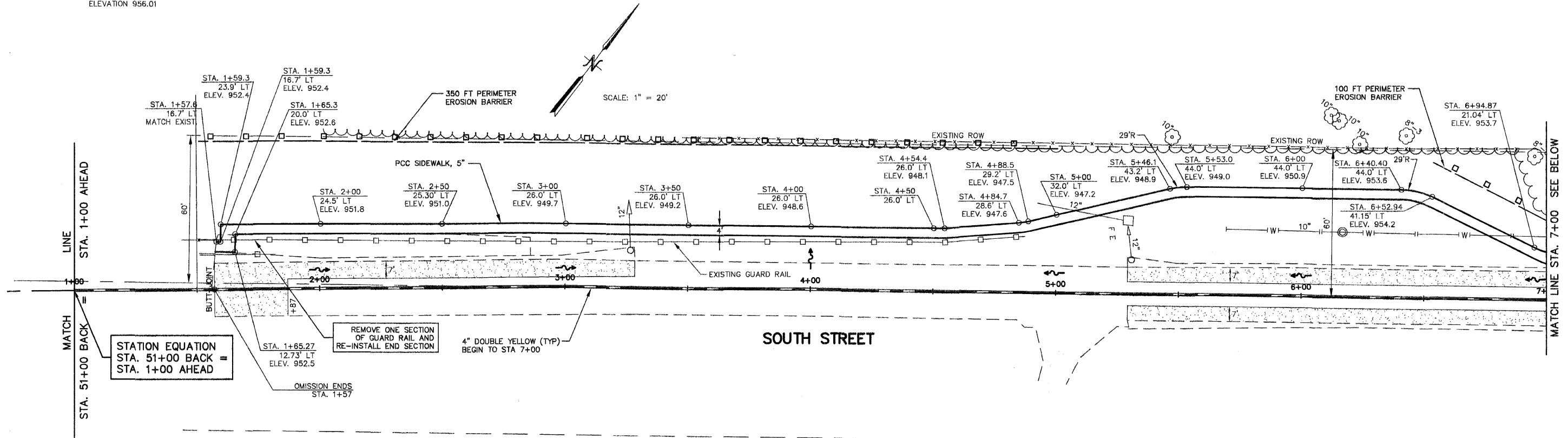
F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
033	08-00109-00-RS	McHENRY	32	4
PLAN SHEET STA. 13+00 TO STA. 19+00				
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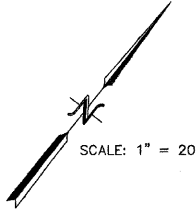
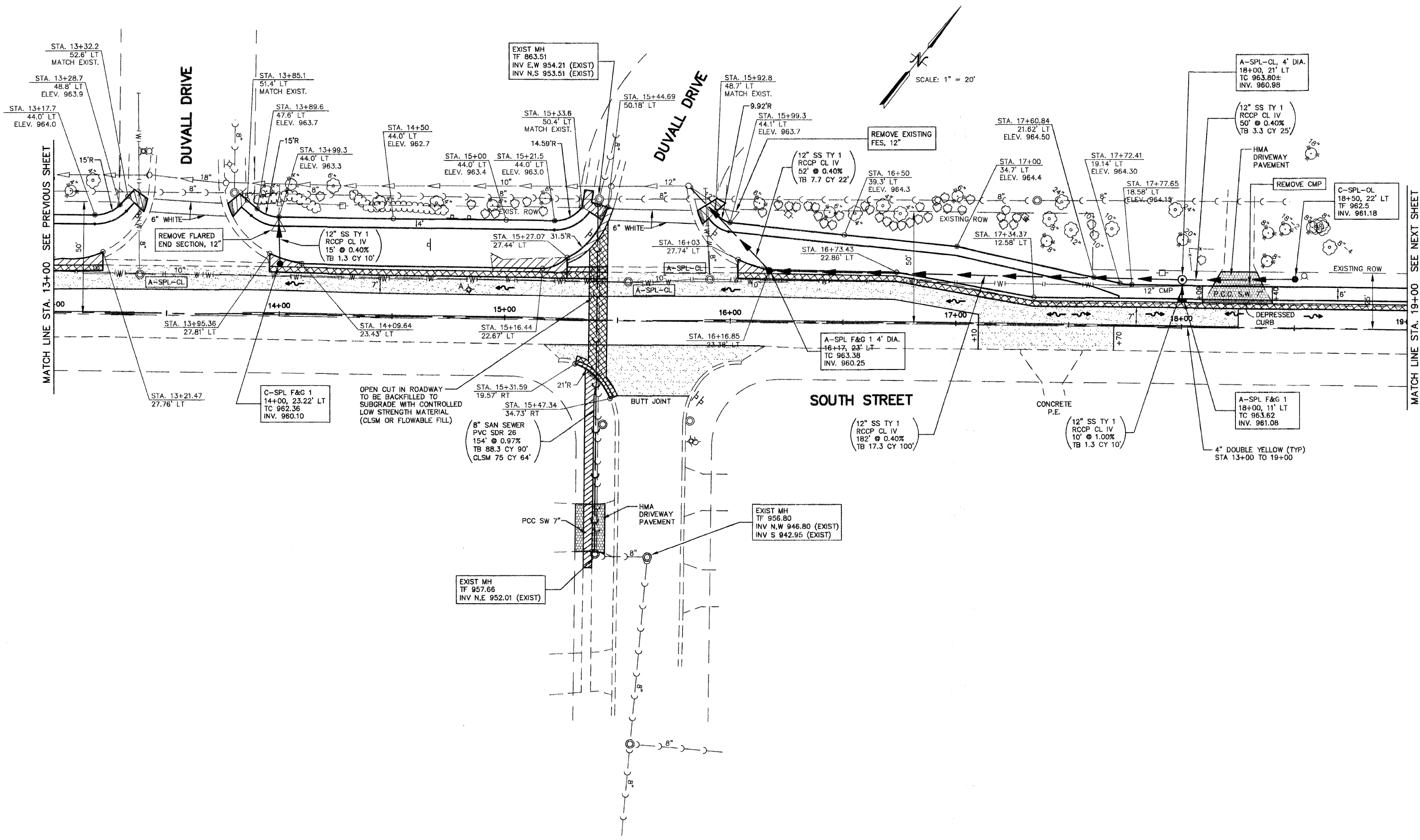
BENCHMARK: CHISLED SQUARE ON NORTHERLY CORNER OF THE CONCRETE PAD AT THE DEAD END OF FRANKLINVILLE ROAD. ELEVATION 933.54

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
033	08-00109-00-RS	McHENRY	32	5
PLAN SHEET STA. 1+00 TO STA. 13+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

BENCHMARK: CHISLED "X" IN THE EAST PARAPET AT THE NORTHEAST ABUTMENT ON THE BRIDGE OVER US ROUTE 14. ELEVATION 956.01



F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHOTS	NO.
033	08-00109-00-RS	McHENRY	32	6
PLAN SHEET STA. 13+00 TO STA. 19+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



MATCH LINE STA. 13+00 SEE PREVIOUS SHEET

MATCH LINE STA. 19+00 SEE NEXT SHEET

DUVALL DRIVE

DUVALL DRIVE

SOUTH STREET

BUTT JOINT

EXIST MH
 TF 957.66
 INV N.E 952.01 (EXIST)

EXIST MH
 TF 956.80
 INV N.W 946.80 (EXIST)
 INV S 942.95 (EXIST)

EXIST MH
 TF 863.51
 INV E.W 954.21 (EXIST)
 INV N.S 953.51 (EXIST)

A-SPL-CL, 4' DIA.
 18+00, 21' LT
 TC 963.80±
 INV. 960.88

(12" SS TY 1
 RCCP CL IV
 50' @ 0.40%
 TB 3.3 CY 25')

C-SPL-OL
 18+50, 22' LT
 TF 962.5
 INV. 961.18

A-SPL F&G 1 4' DIA.
 16+17, 23' LT
 TC 963.38
 INV. 960.25

A-SPL F&G 1
 18+00, 11' LT
 TC 963.62
 INV. 961.08

(12" SS TY 1
 RCCP CL IV
 182' @ 0.40%
 TB 17.3 CY 100')

(12" SS TY 1
 RCCP CL IV
 10' @ 1.00%
 TB 1.3 CY 10')

4" DOUBLE YELLOW (TYP)
 STA 13+00 TO 19+00

C-SPL F&G 1
 14+00, 23.22' LT
 TC 962.36
 INV. 960.10

8" SAN SEWER
 PVC SDR 26
 154' @ 0.97%
 TB 88.3 CY 90'
 CLSM 75 CY 64'

STA. 15+31.59
 19.57' RT

STA. 15+47.34
 34.73' RT

OPEN CUT IN ROADWAY
 TO BE BACKFILLED TO
 SUBGRADE WITH CONTROLLED
 LOW STRENGTH MATERIAL
 (CLSM OR FLOWABLE FILL)

STA. 13+21.47
 27.76' LT

STA. 13+95.36
 27.81' LT

STA. 14+09.64
 23.43' LT

STA. 15+16.44
 22.67' LT

STA. 16+16.85
 23.38' LT

STA. 17+60.84
 21.62' LT
 ELEV. 964.50

STA. 17+00
 34.7' LT
 ELEV. 964.4

STA. 17+72.41
 19.14' LT
 ELEV. 964.30

STA. 17+77.65
 18.58' LT
 ELEV. 964.15

STA. 15+92.8
 48.7' LT
 MATCH EXIST.

STA. 15+99.3
 44.1' LT
 ELEV. 963.7

STA. 16+50
 39.3' LT
 ELEV. 964.3

STA. 15+44.69
 50.18' LT

STA. 15+33.6
 50.4' LT
 MATCH EXIST.

STA. 15+00
 44.0' LT
 ELEV. 963.4

STA. 15+21.5
 44.0' LT
 ELEV. 963.0

STA. 14+50
 44.0' LT
 ELEV. 962.7

STA. 13+99.3
 44.0' LT
 ELEV. 963.3

STA. 13+89.6
 47.6' LT
 ELEV. 963.7

STA. 13+85.1
 51.4' LT
 MATCH EXIST.

STA. 13+28.7
 48.8' LT
 ELEV. 963.9

STA. 13+17.7
 44.0' LT
 ELEV. 964.0

STA. 13+32.2
 52.6' LT
 MATCH EXIST.

REMOVE FLARED
 END SECTION, 12"

REMOVE EXISTING
 FES, 12"

REMOVE CMP

CONCRETE
 P.E.

DEPRESSED
 CURB

HMA
 DRIVEWAY
 PAVEMENT

HMA
 DRIVEWAY
 PAVEMENT

PCC SW 7"

A-SPL-CL

A-SPL-CL

A-SPL-CL

P.C.D. S.W.

EXISTING ROW

EXISTING ROW

EXIST. ROW

EXIST. ROW

EXIST. ROW

15'R

15'R

15'R

15'R

15'R

15'R

15'R

15'R

14.59'R

14.59'R

10"

10"

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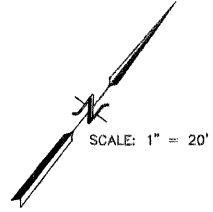
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10"

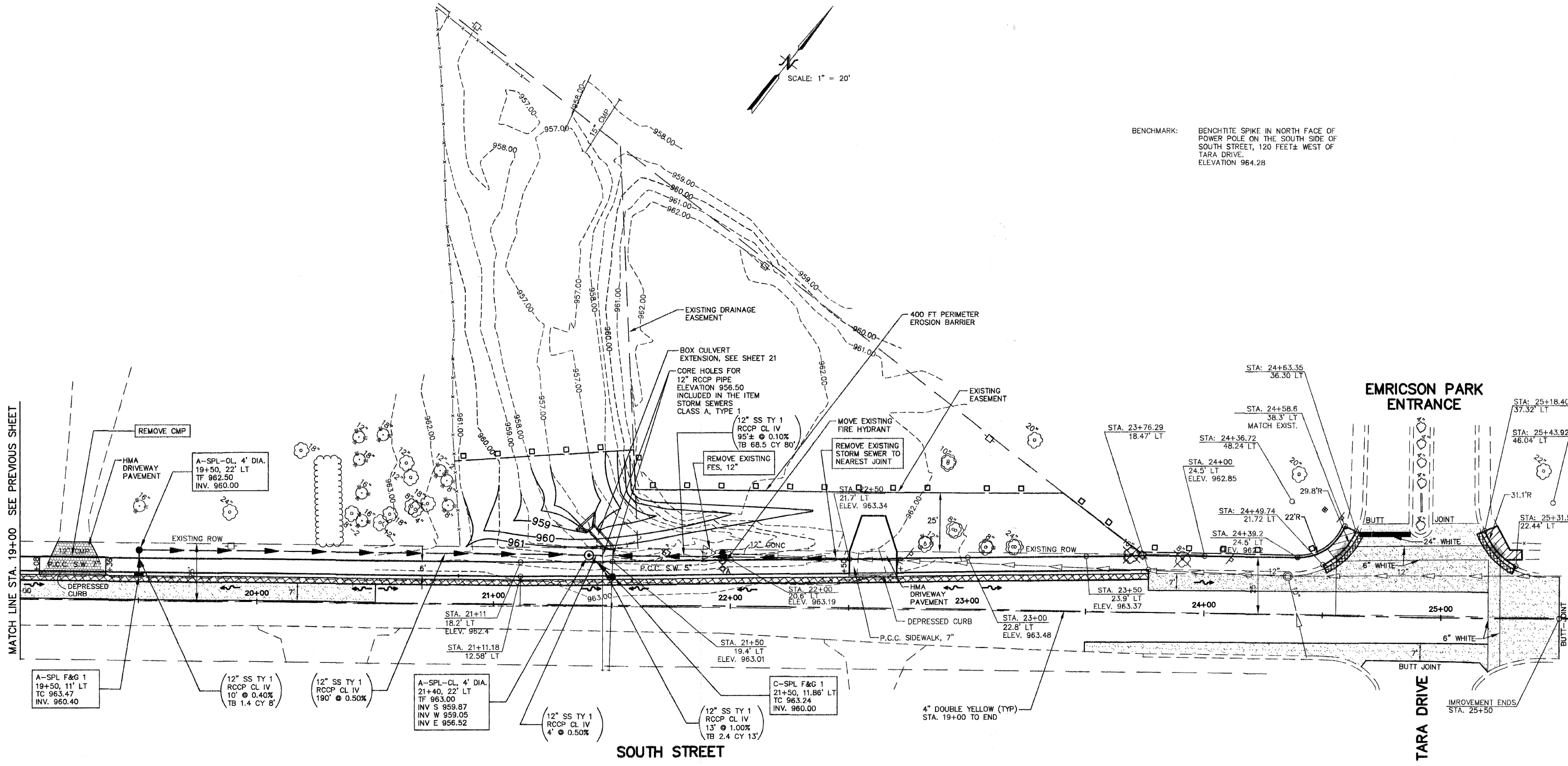
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10"

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS. NO.
033	08-00109-00-RS	McHENRY	32 7
PLAN SHEET STA. 19+00 TO STA. 25+50			
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169			



BENCHMARK: BENCHTITE SPIKE IN NORTH FACE OF POWER POLE ON THE SOUTH SIDE OF SOUTH STREET, 120 FEET± WEST OF TARA DRIVE. ELEVATION 964.28



MATCH LINE STA. 19+00 SEE PREVIOUS SHEET

EMRICSON PARK ENTRANCE

TARA DRIVE

SOUTH STREET

IMPROVEMENT ENDS STA. 25+50

REMOVE CMP
 HMA DRIVEWAY PAVEMENT
 A-SPL-OL, 4' DIA.
 19+50, 22' LT
 TF 962.50
 INV. 960.00

A-SPL F&G 1
 19+50, 11' LT
 TC 963.47
 INV. 960.40

(12" SS TY 1
 RCCP CL IV
 10' @ 0.40%
 TB 1.4 CY 8')

(12" SS TY 1
 RCCP CL IV
 190' @ 0.50%

A-SPL-CL, 4' DIA.
 21+40, 22' LT
 TF 963.00
 INV S 959.87
 INV W 959.05
 INV E 956.52

(12" SS TY 1
 RCCP CL IV
 4' @ 0.50%

(12" SS TY 1
 RCCP CL IV
 13' @ 1.00%
 TB 2.4 CY 13')

C-SPL F&G 1
 21+50, 11.86' LT
 TC 963.24
 INV. 960.00

4" DOUBLE YELLOW (TYP)
 STA. 19+00 TO END

EXISTING DRAINAGE EASEMENT
 BOX CULVERT EXTENSION, SEE SHEET 21
 CORE HOLES FOR 12" RCCP PIPE ELEVATION 956.50 INCLUDED IN THE ITEM STORM SEWERS CLASS A, TYPE 1
 12" SS TY 1 RCCP CL IV 95'± @ 0.10% TB 68.5 CY 80'

REMOVE EXISTING FES, 12"
 MOVE EXISTING FIRE HYDRANT
 REMOVE EXISTING STORM SEWER TO NEAREST JOINT

400 FT PERIMETER EROSION BARRIER

EXISTING EASEMENT

STA. 23+76.29
 18.47' LT

STA. 24+36.72
 48.24 LT

STA. 24+49.74
 21.72 LT

STA. 24+39.2
 24.5' LT
 ELEV. 962.85

EXISTING ROW

HMA DRIVEWAY PAVEMENT 23+00

DEPRESSED CURB

P.C.C. SIDEWALK, 7"

STA. 23+50
 23.9' LT
 ELEV. 963.37

STA. 23+00
 22.8' LT
 ELEV. 963.48

STA. 24+63.35
 36.30 LT

STA. 24+58.6
 38.3' LT
 MATCH EXIST.

29.8'R

22'R

24.5' LT
 ELEV. 962.85

6" WHITE

24" WHITE

BUTT JOINT

STA. 25+18.40
 37.32' LT

STA. 25+43.92
 46.04' LT

31.1'R

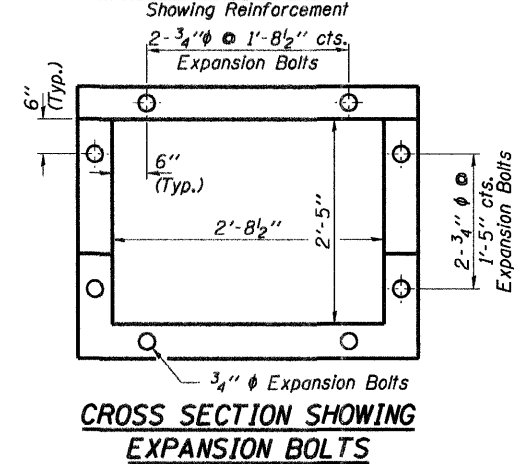
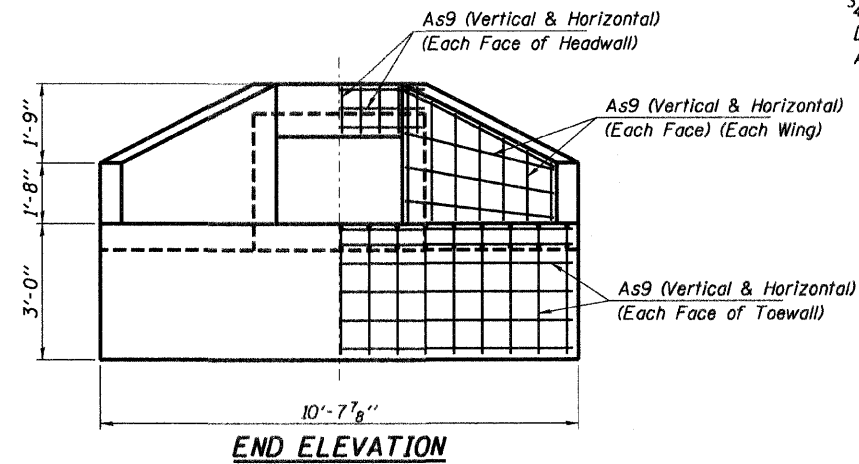
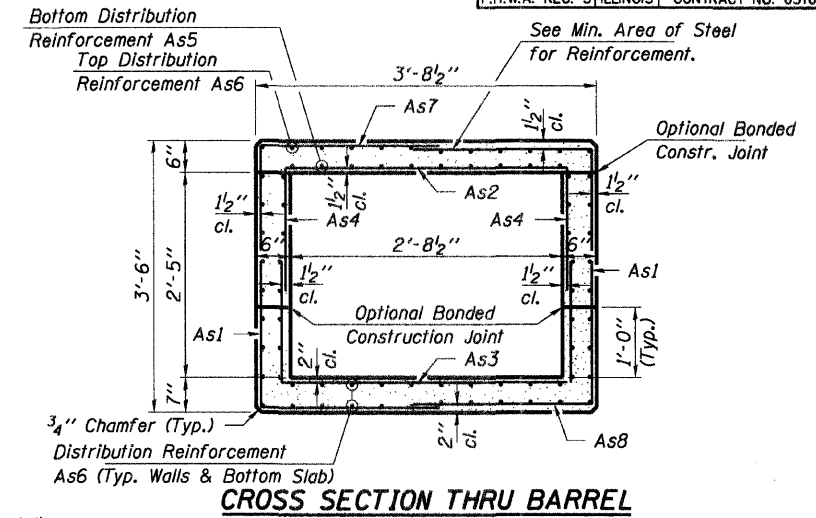
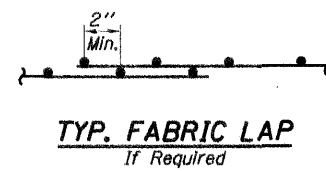
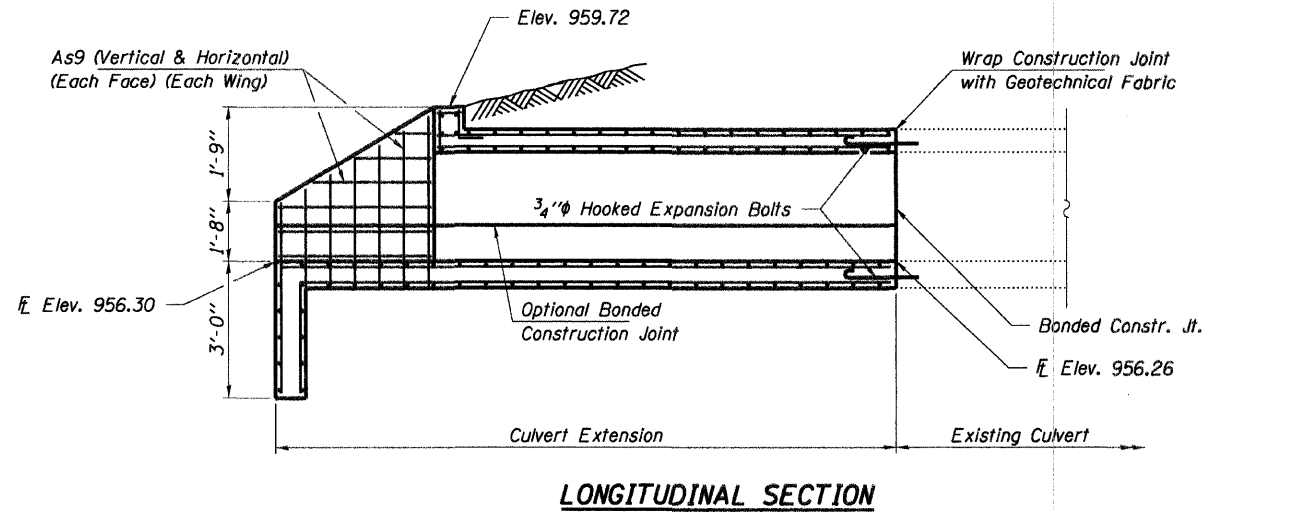
STA. 25+31.58
 22.44' LT

6" WHITE

24" WHITE

BUTT JOINT

IMPROVEMENT ENDS STA. 25+50



Note: Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.

GENERAL NOTES

- The minimum concrete strength shall be 3,500 psi.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). See Special Provisions.
- All construction joints shall be bonded.
- Box culvert shall be constructed in accordance with Article 540 of the Standard Specifications.
- Precast Concrete Box Culvert is allowed at contractor's expense.

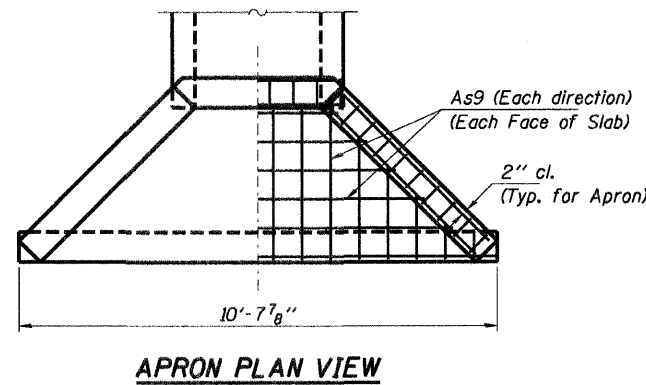
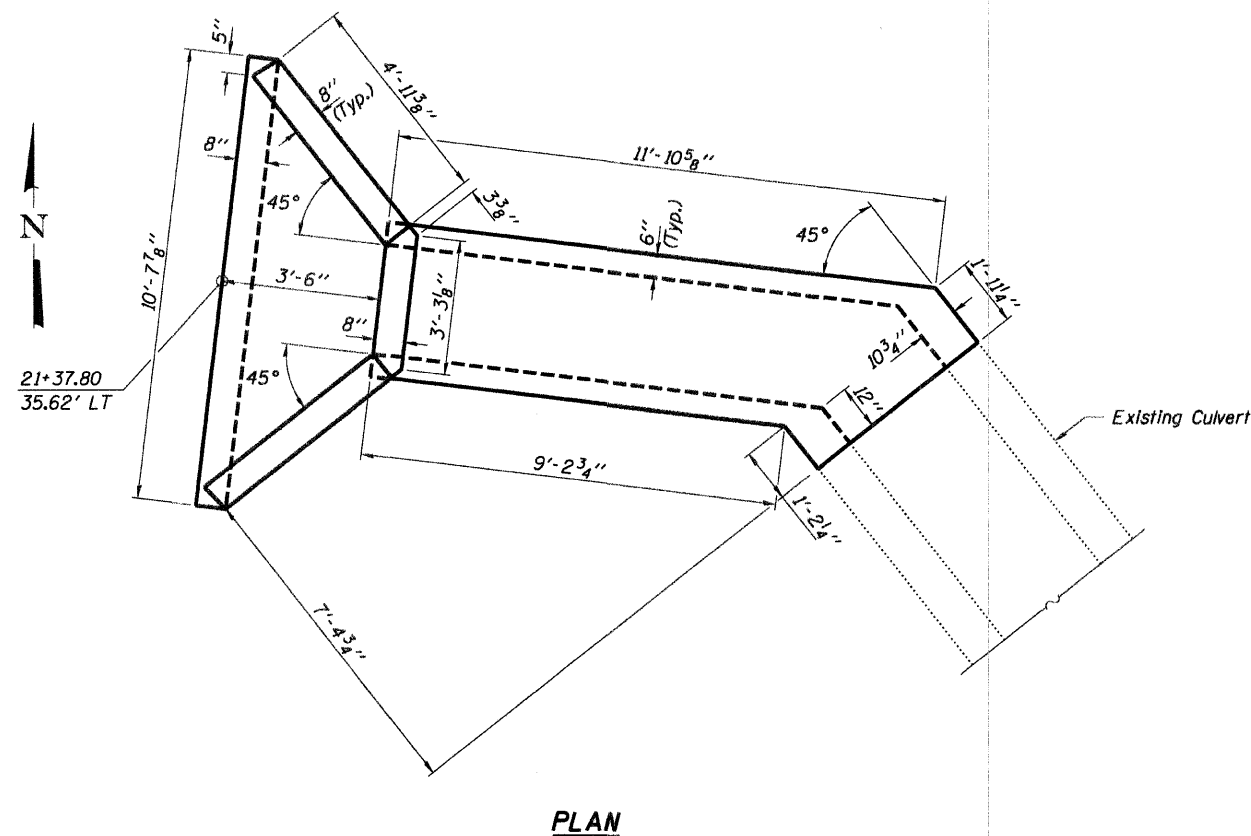
REQUIRED STEEL AREAS (in²/ft.)

As1 = 0.27	As5 = 0.31	As9 = 0.20
As2 = 0.37	As6 = 0.20	
As3 = 0.37	As7 = 0.20	
As4 = 0.27	As8 = 0.20	

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	5.6

Reinforcement bars shall be included in the cost of Concrete Box Culverts. 3/4" Expansion Bolts shall be included in the cost of Concrete Box Culverts. 6" of CA-6 shall be included in the cost of Concrete Box Culverts.



LOADING HS 20-44

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

DESIGN SPECIFICATIONS

2002 AASHTO and all applicable interims

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

Steven W. McGinnis 2/10/2009
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

HLR

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 548-3400

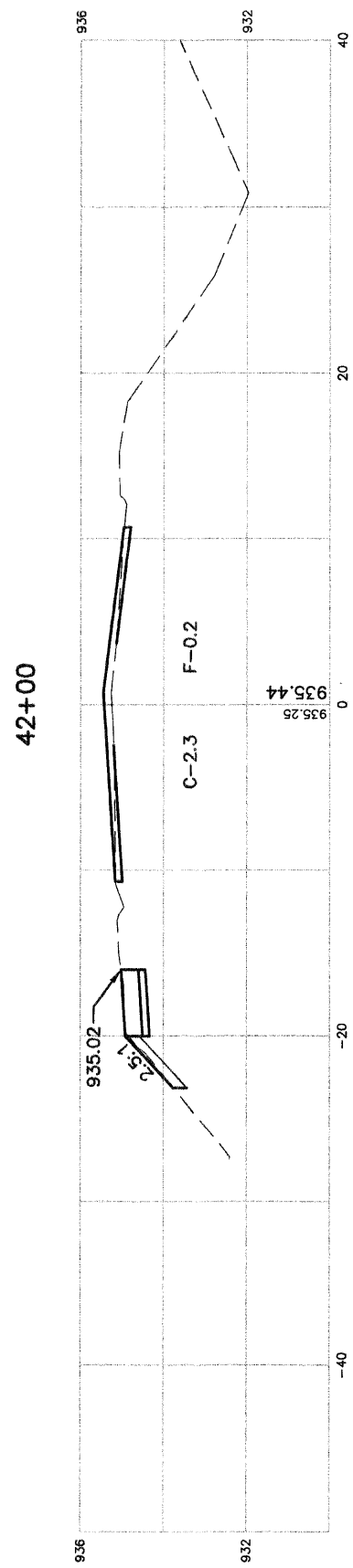
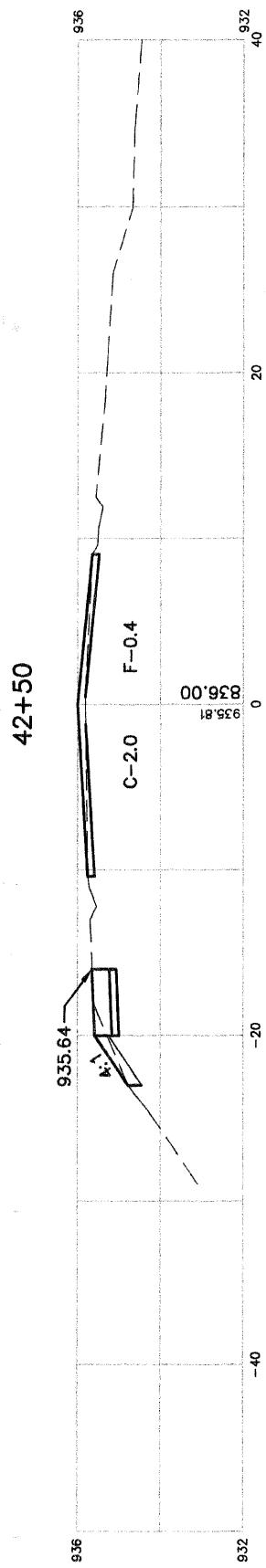
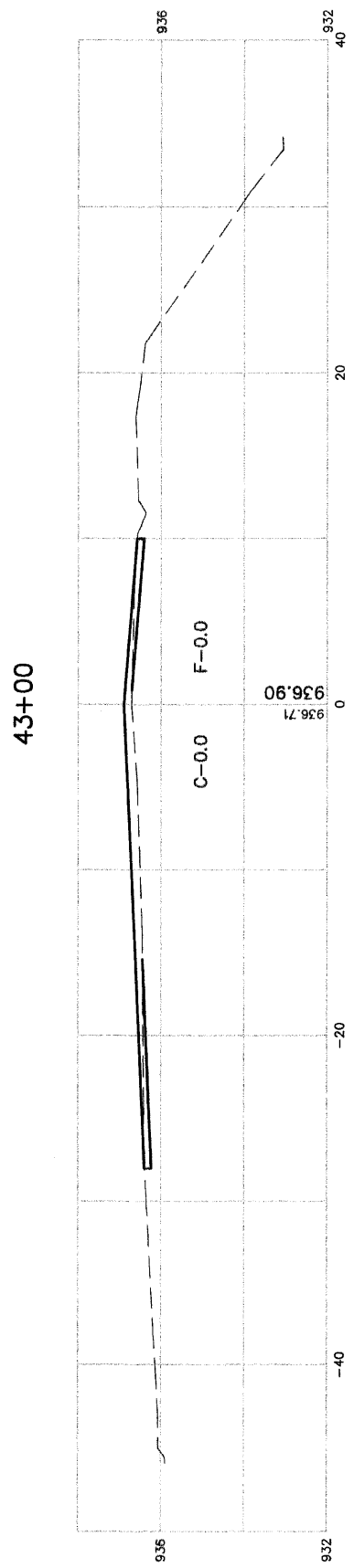
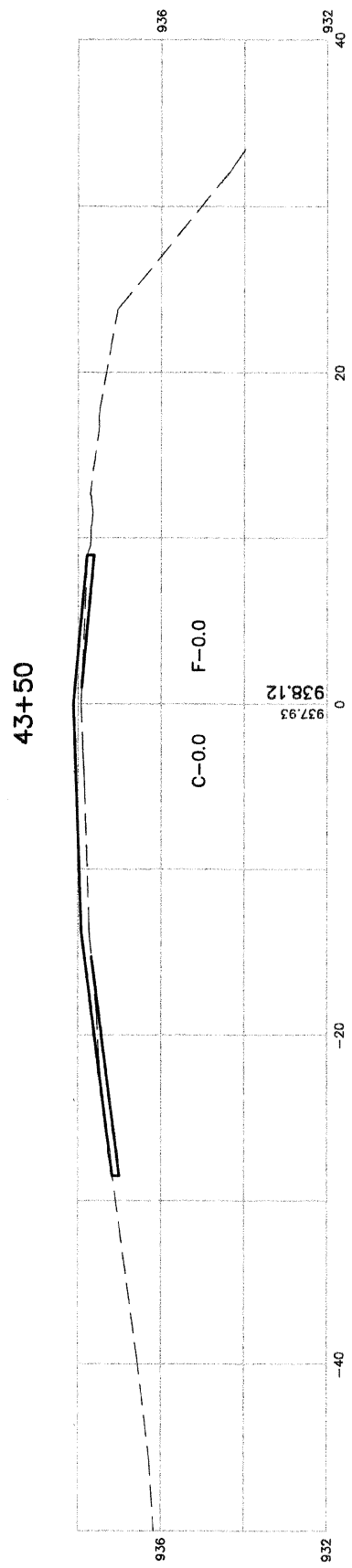
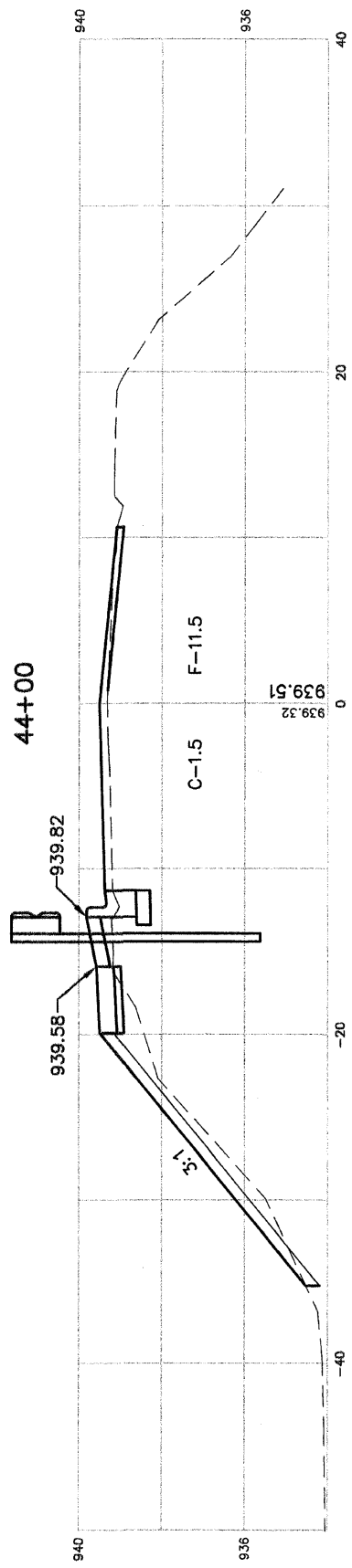
ELGIN • SPRINGFIELD

PROJECT NUMBER: 08-10-0187-1 DATE: 060507
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.T.M.

CULVERT DETAILS

CITY OF WOODSTOCK
SOUTH STREET
McHENRY COUNTY

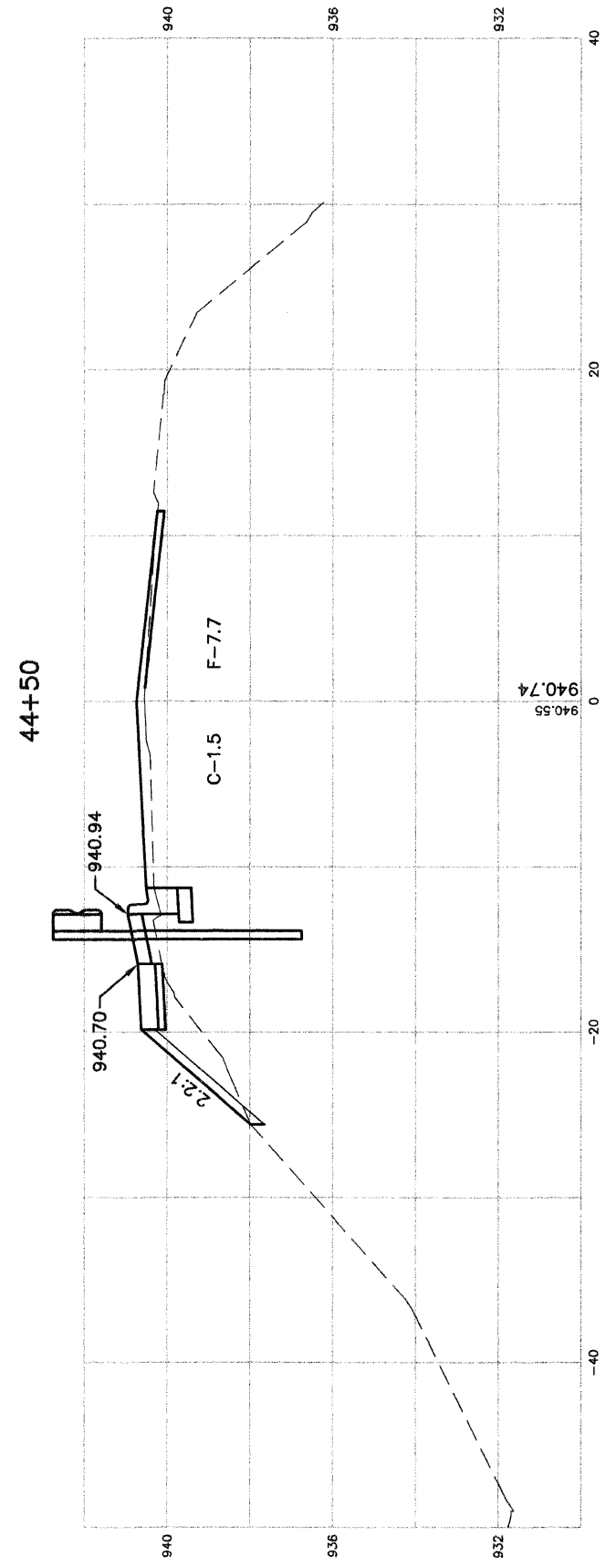
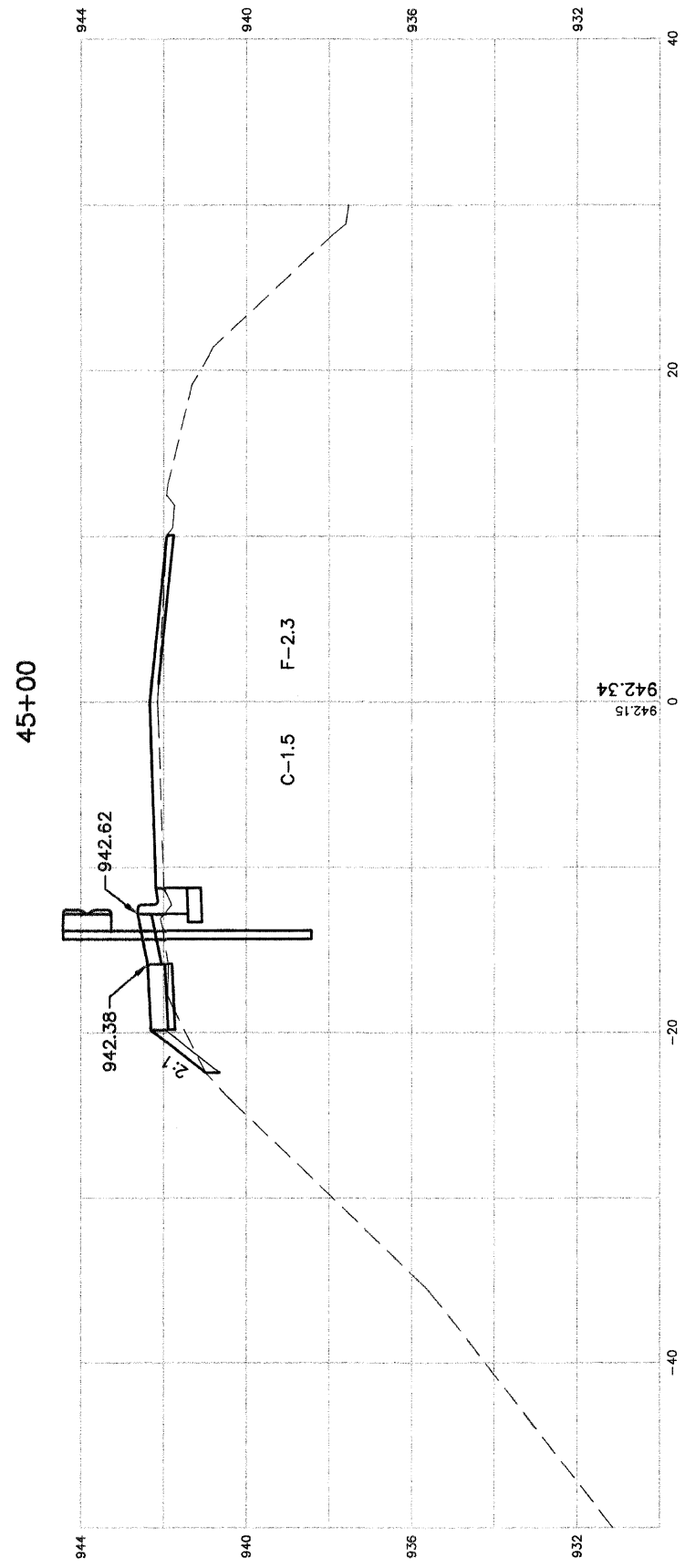
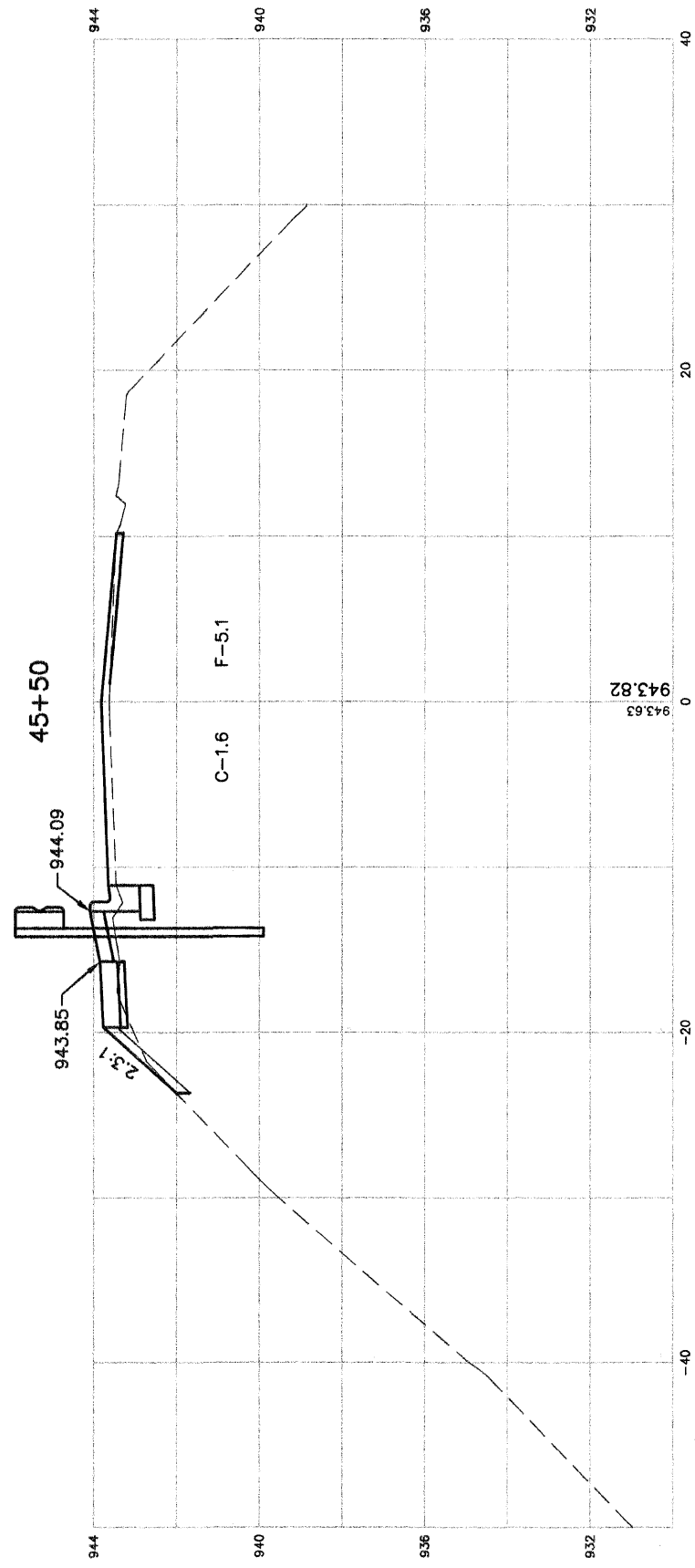
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033	08-00109-00-RS	McHENRY	32	9
CROSS SECTIONS STA. 42+00 TO STA. 44+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

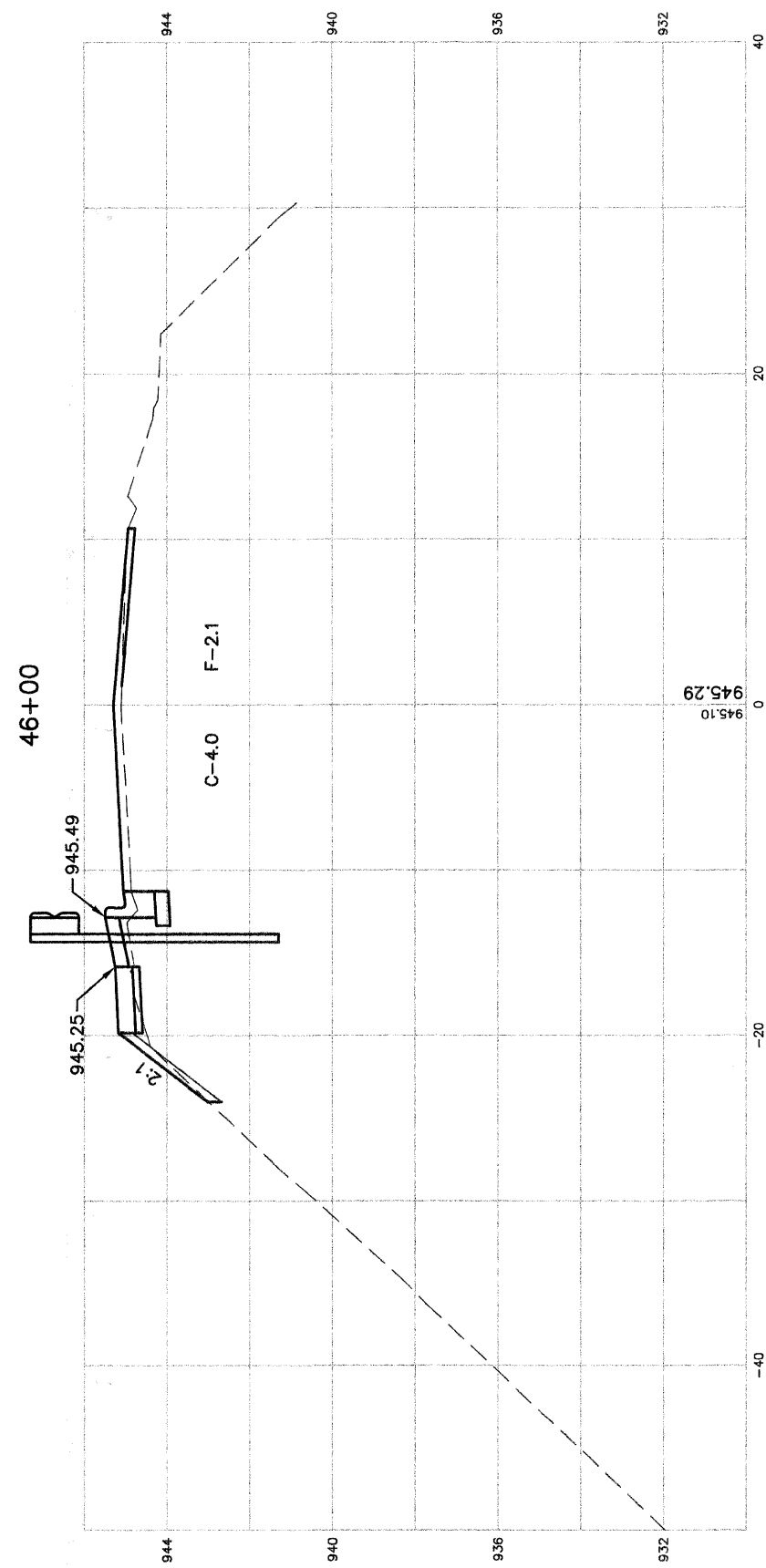
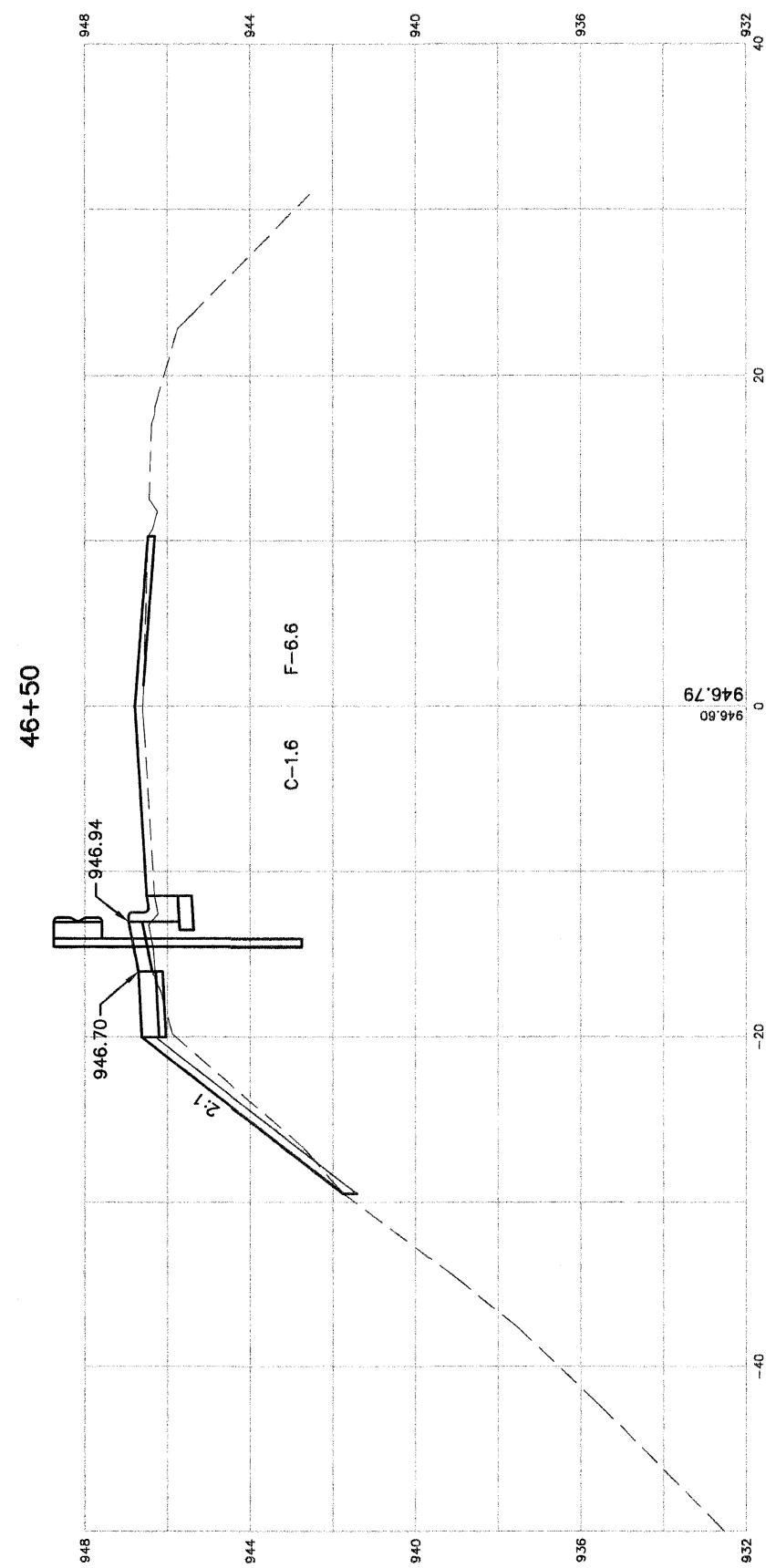
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CROSS SECTIONS STA. 44+50 TO STA. 45+50				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

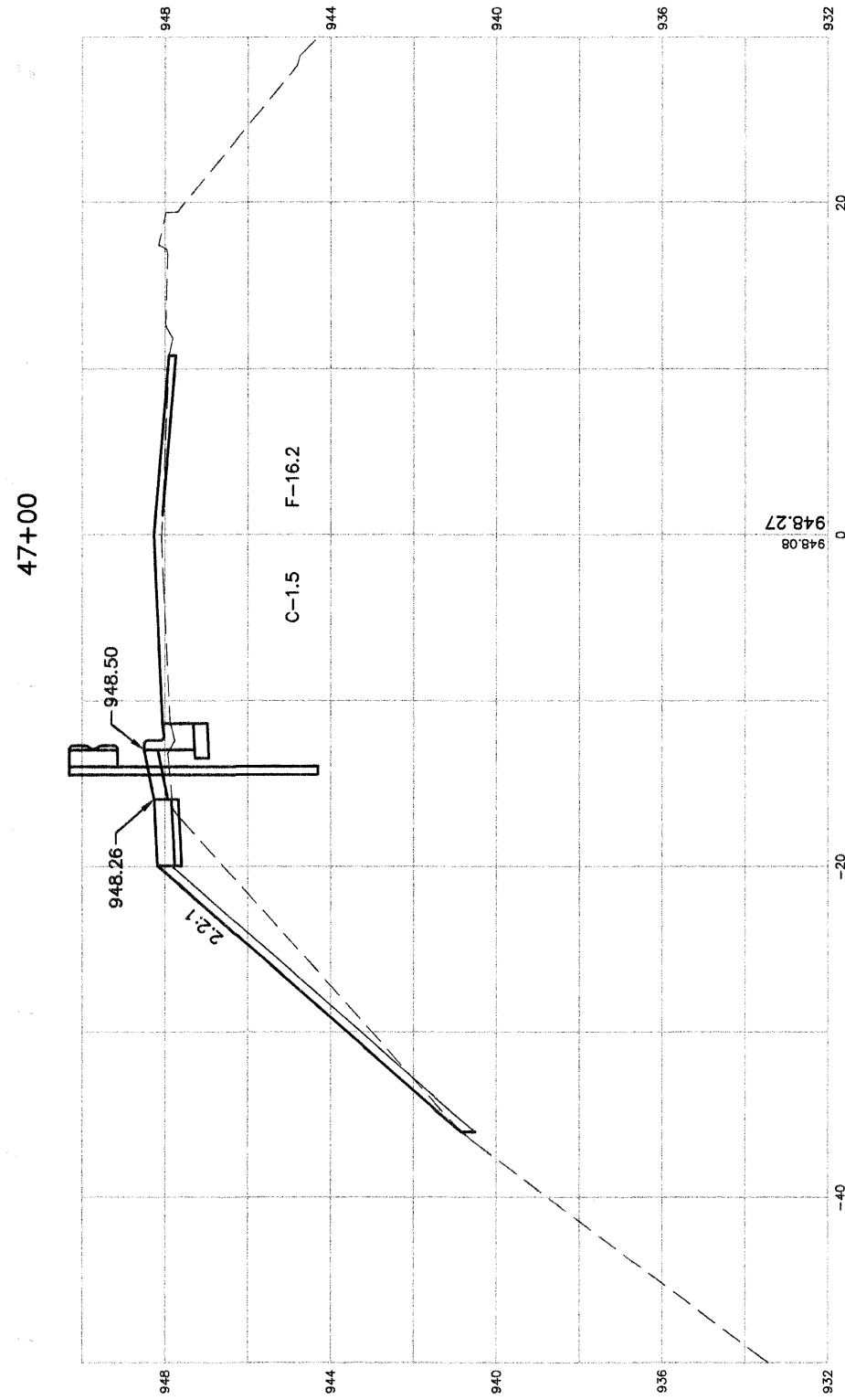
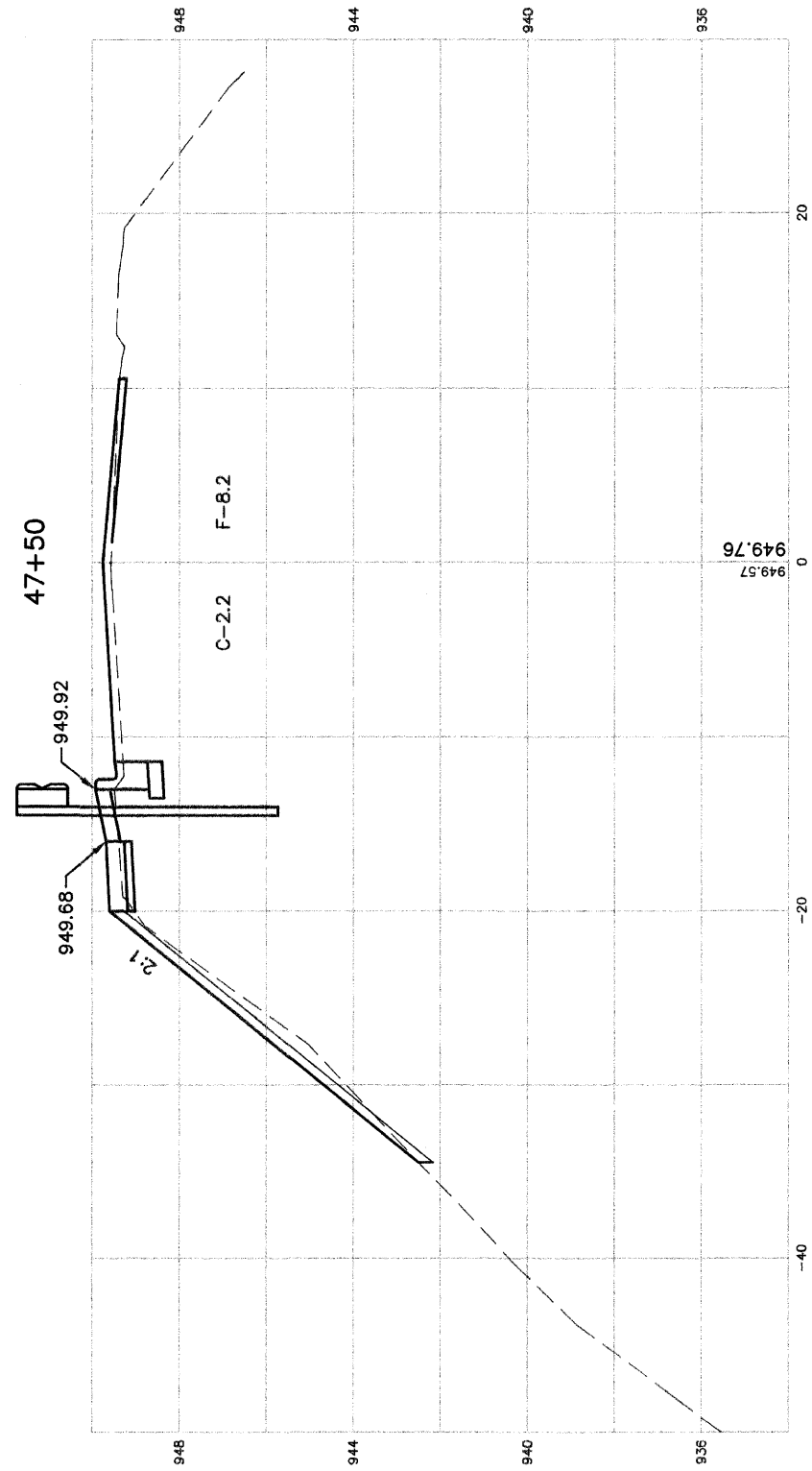
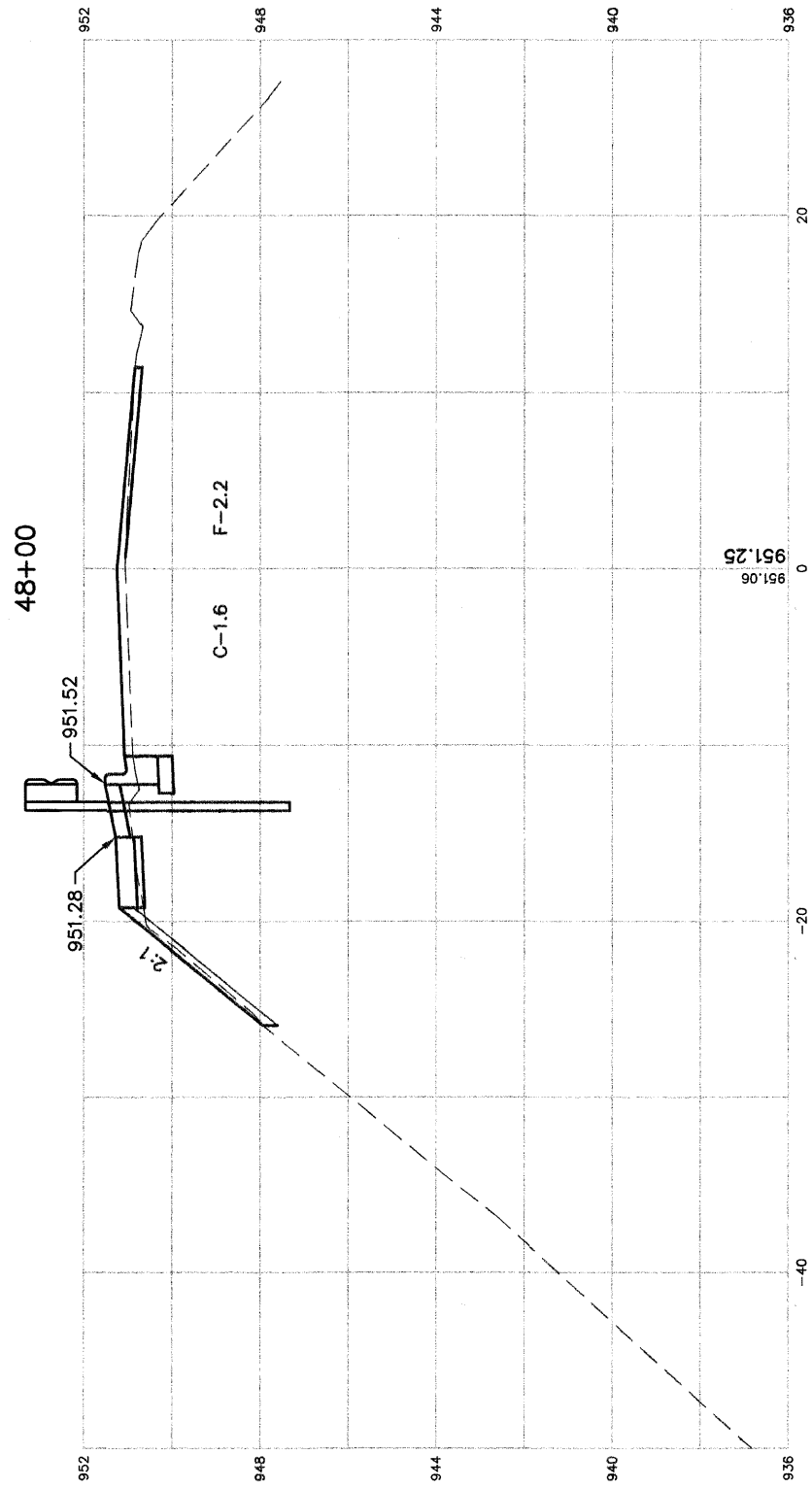
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CROSS SECTIONS STA. 46+00 TO STA. 46+50				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

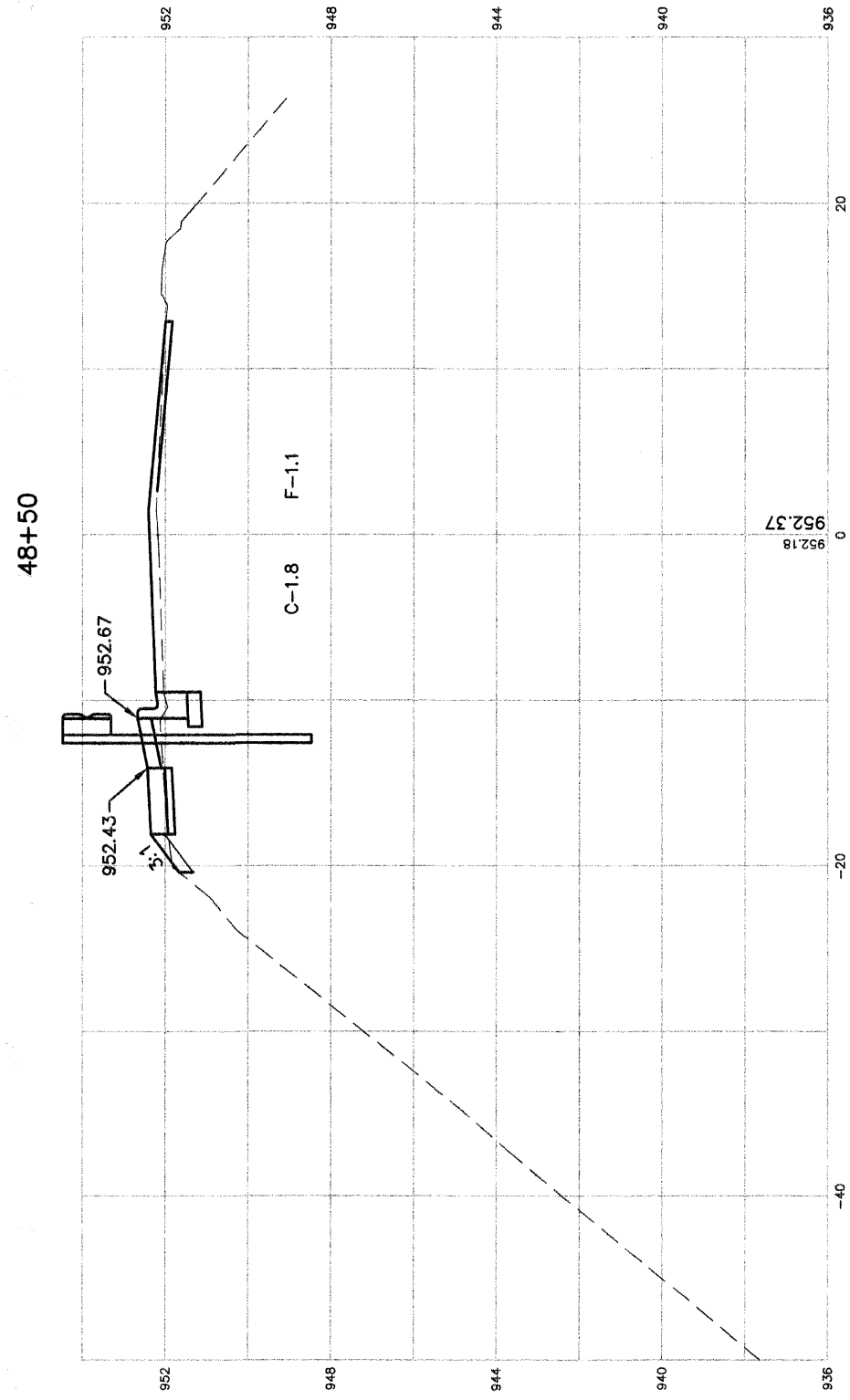
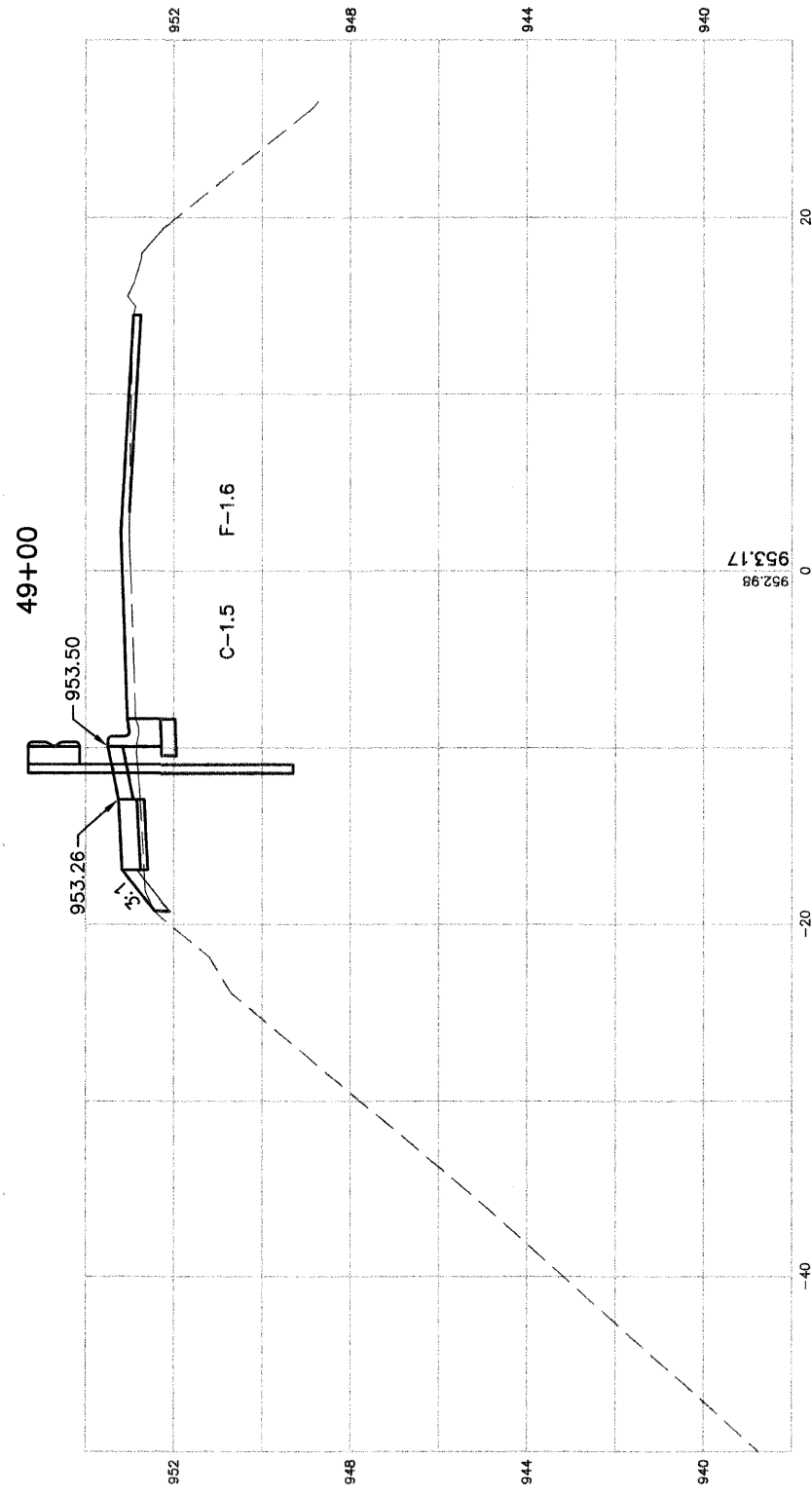
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033	08-00109-00-RS	McHENRY	32	12
CROSS SECTIONS STA. 47+00 TO STA. 48+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

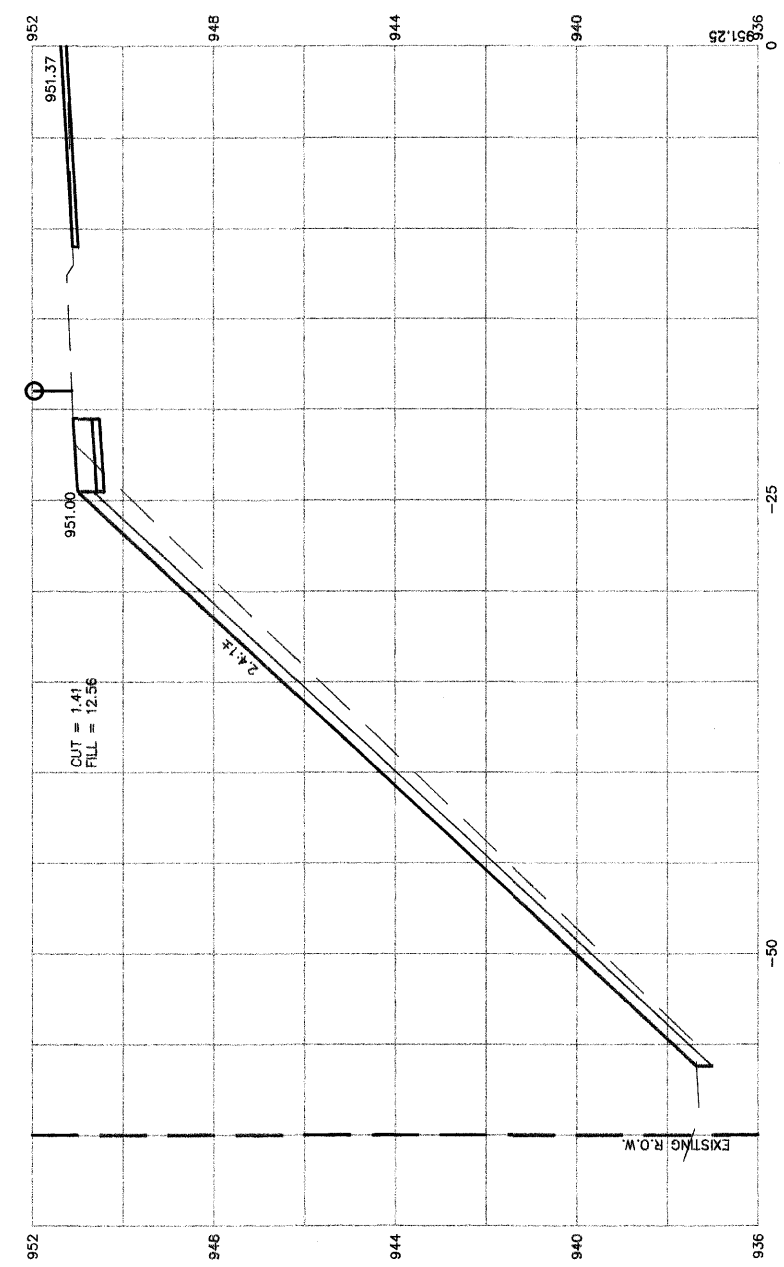


SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

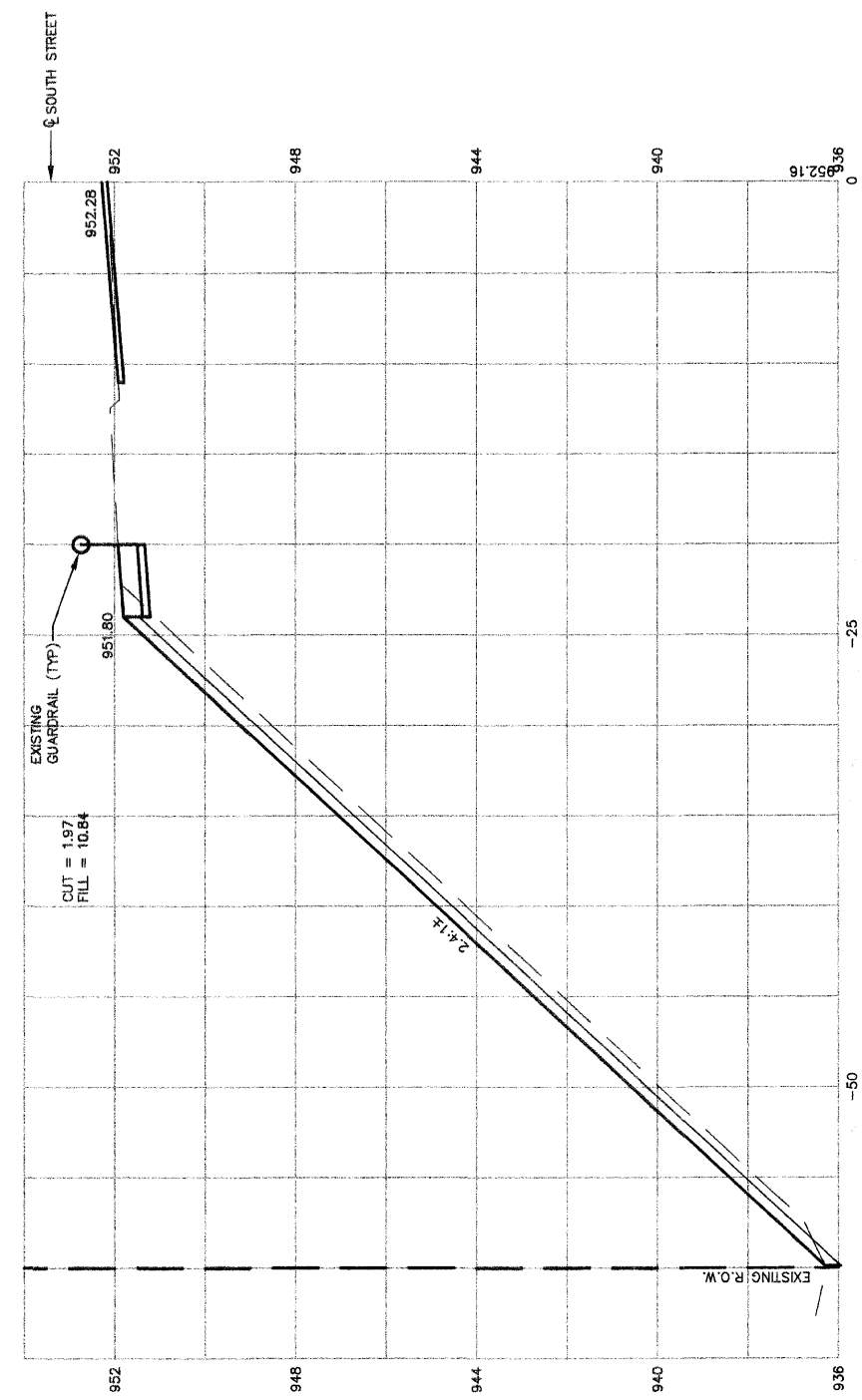
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F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

2+50

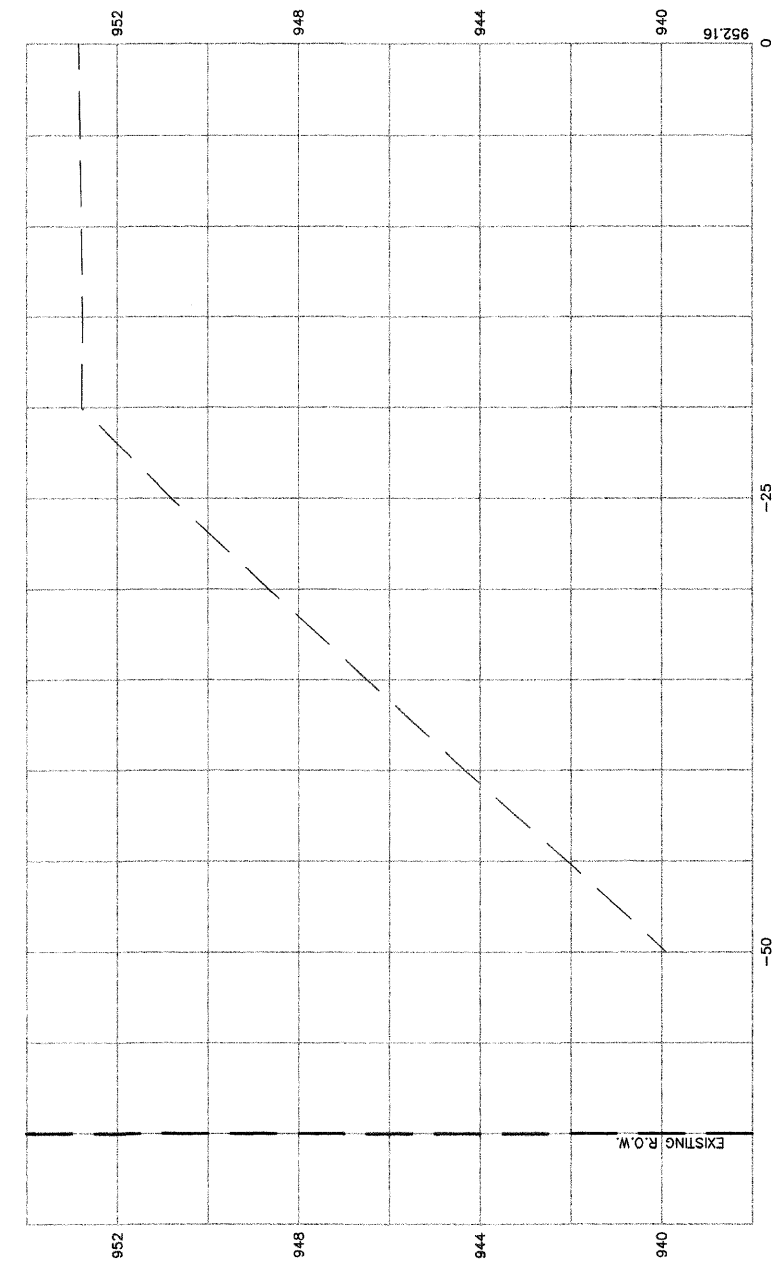


2+00



OMISSION ENDS STATION 1+57

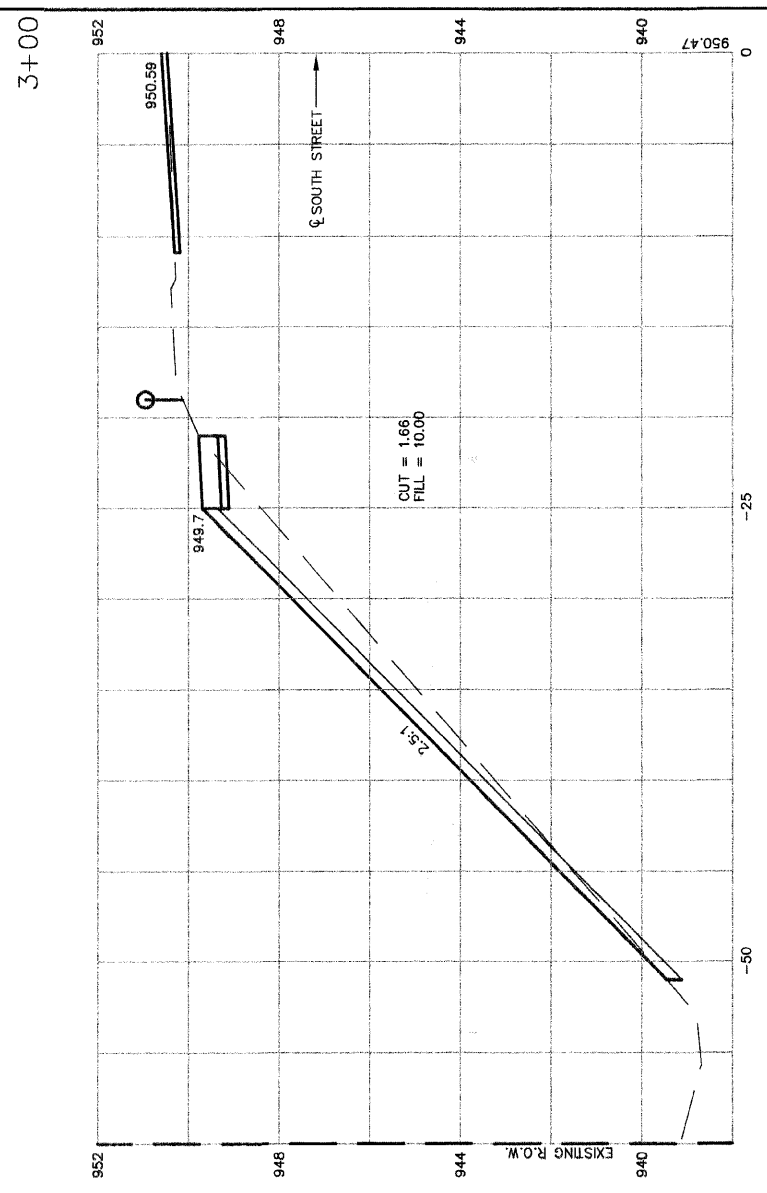
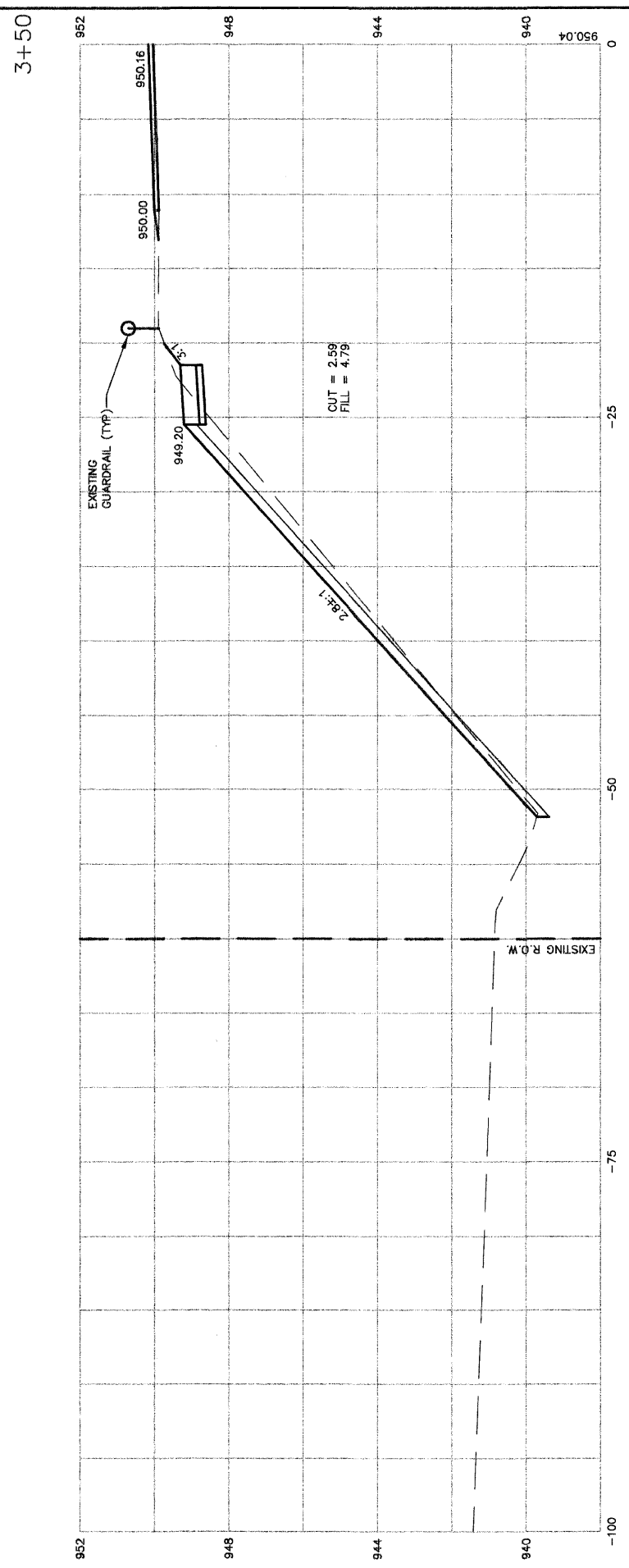
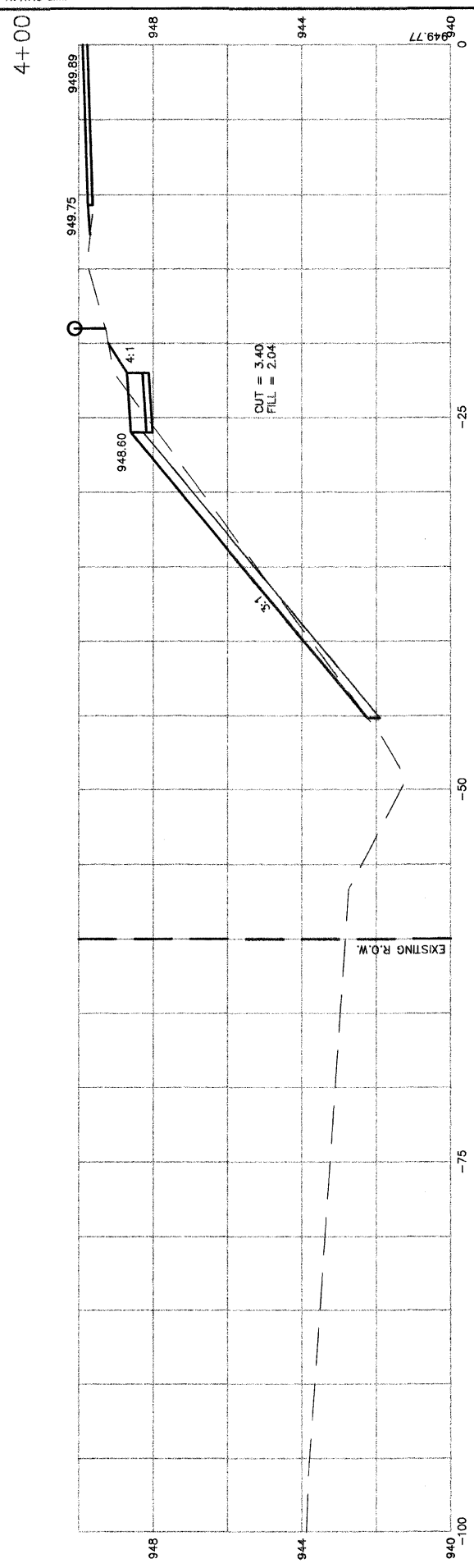
1+50



SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

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033	08-00109-00-RS	McHENRY	32	15
CROSS SECTIONS STA. 3+00 TO STA. 4+00				
F.H.W.A. REG. 5 ILLINOIS CONTRACT NO. 63169				

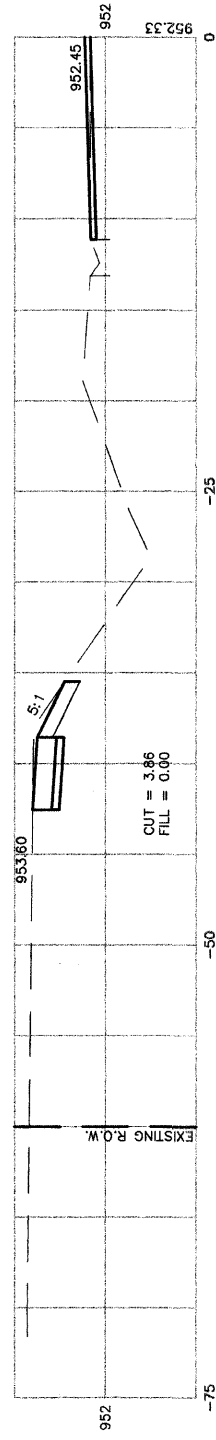


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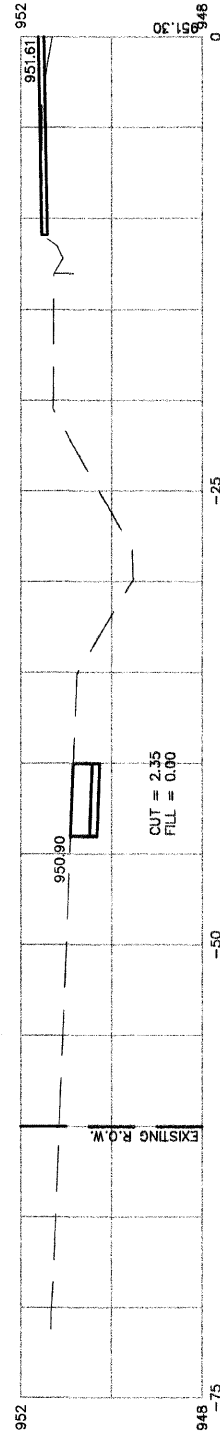
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033	08-00109-00-RS	McHENRY	32	16
CROSS SECTIONS STA. 4+50 TO STA. 6+50				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

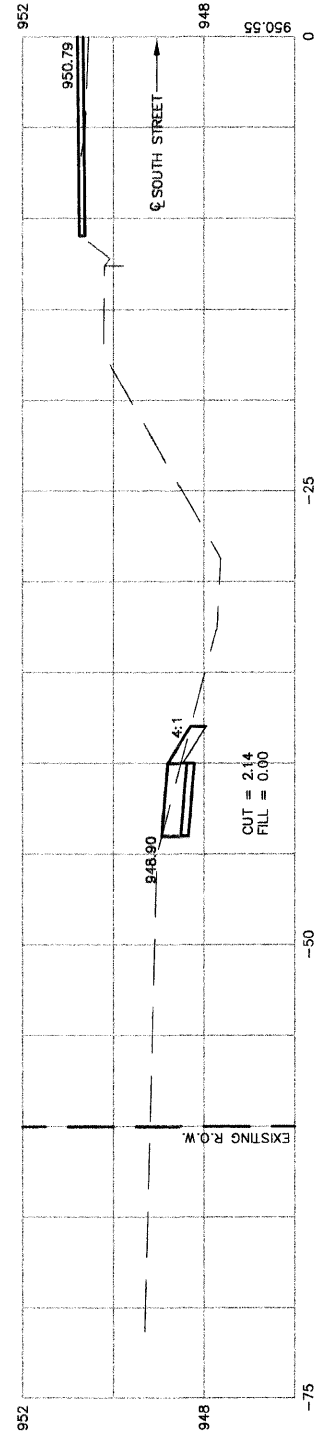
6+50



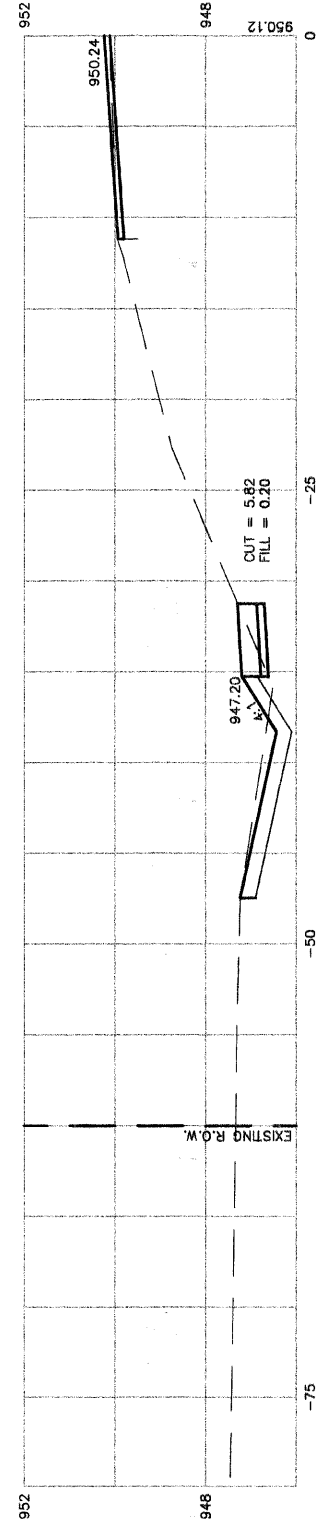
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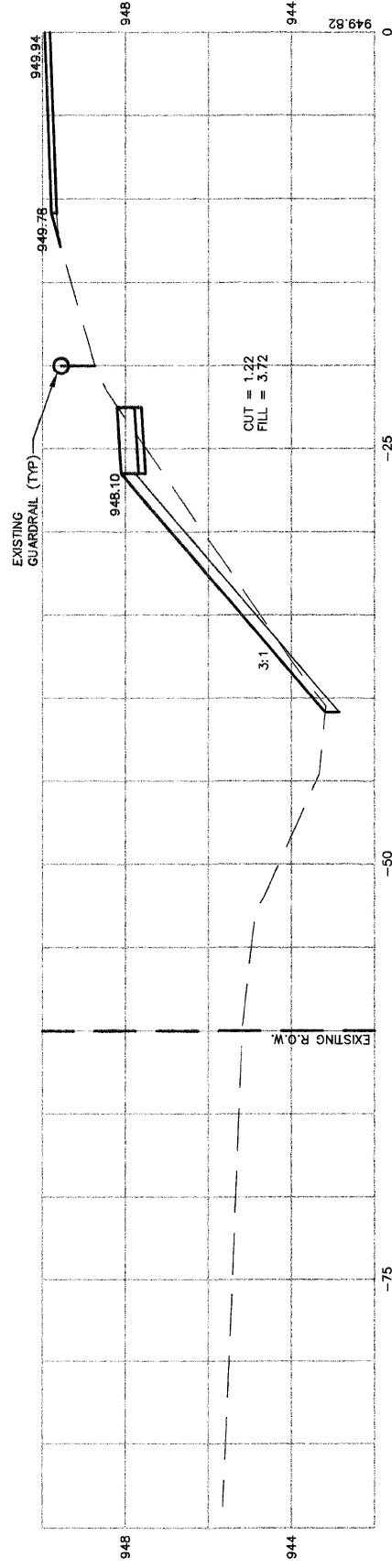
5+50



5+00



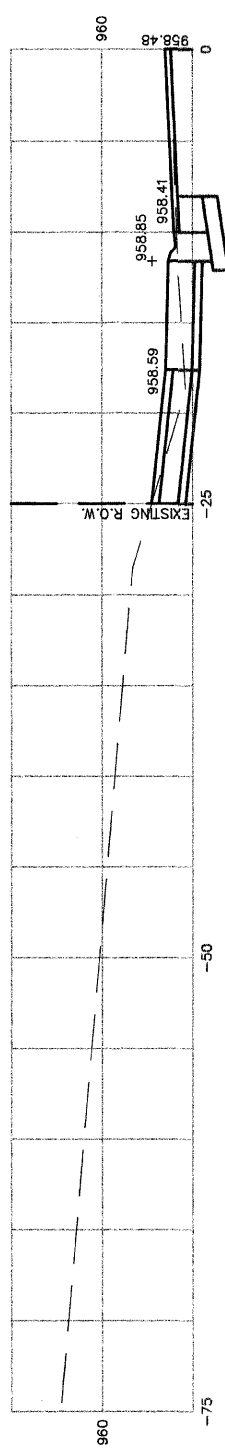
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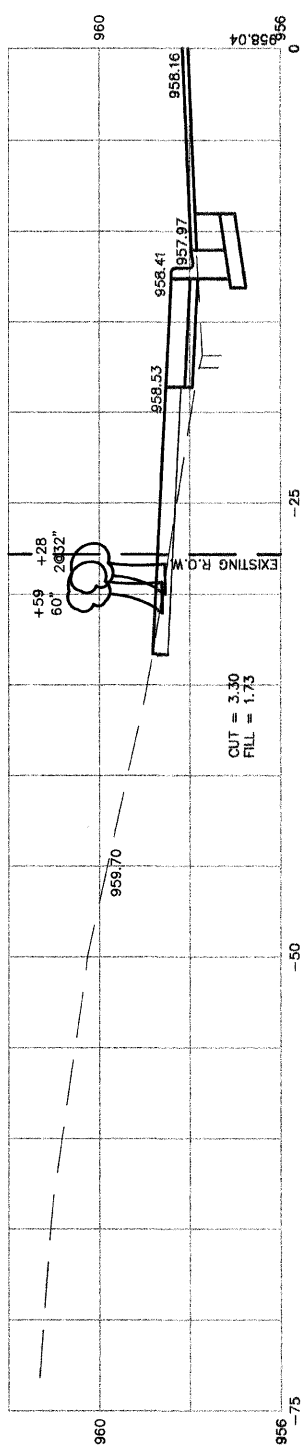
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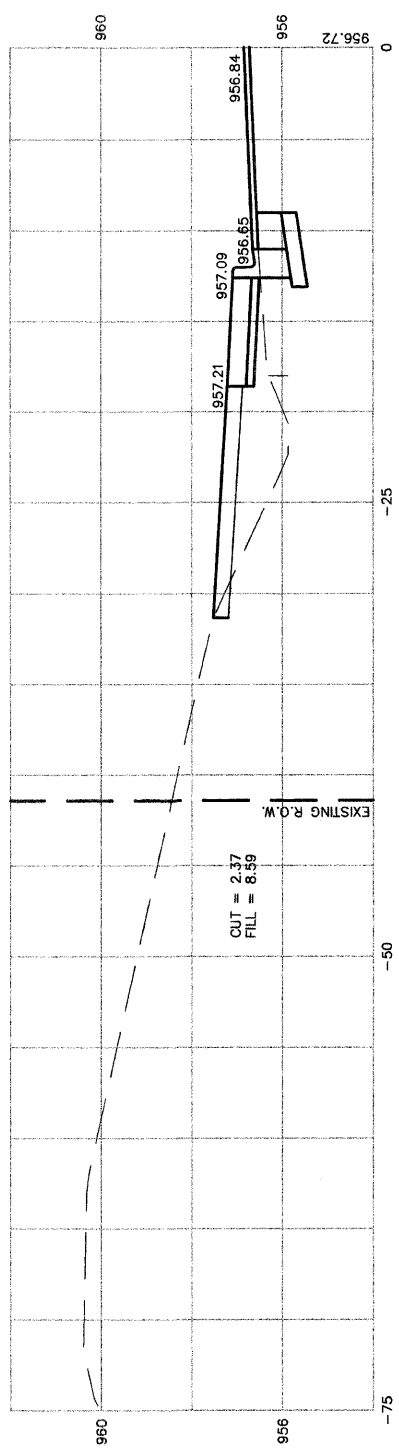
8+77
 P.E. LT.



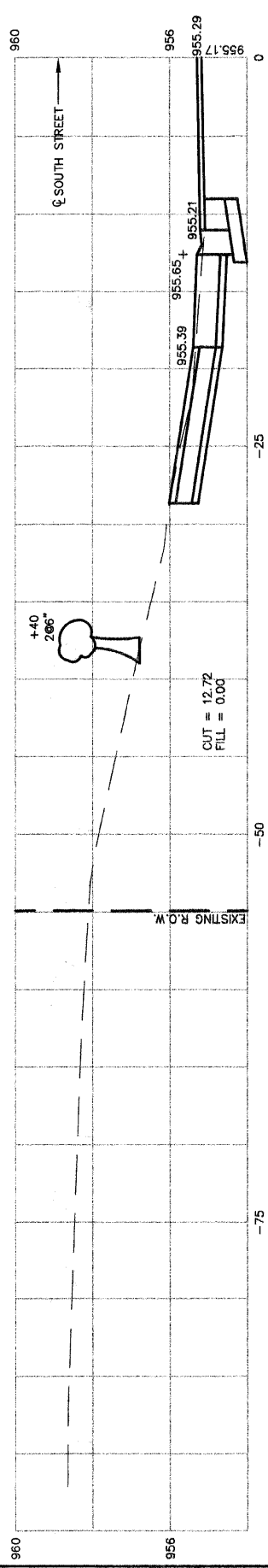
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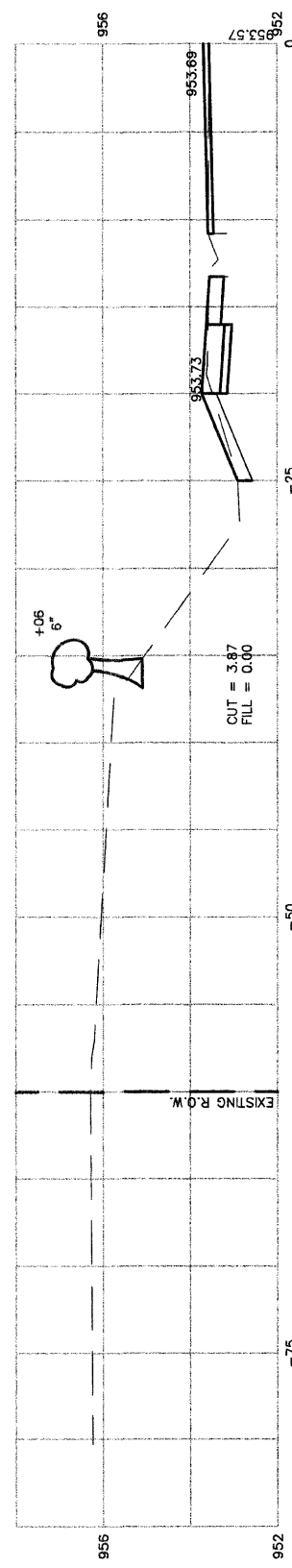
8+00



7+50
 AND PE LT.



7+00



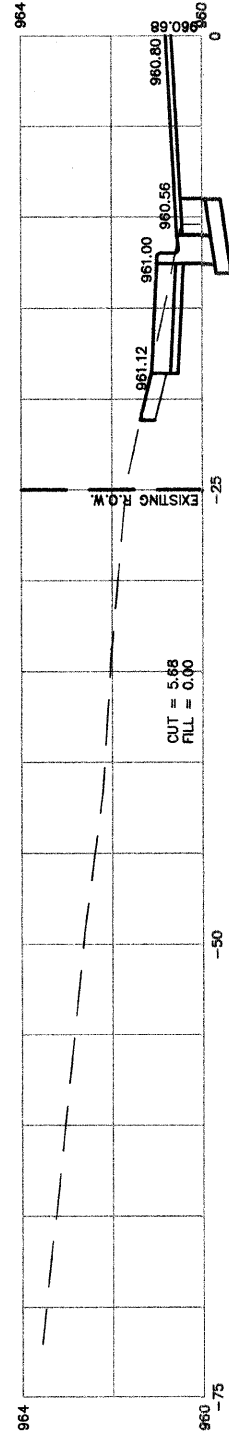
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033	08-00109-00-RS	McHENRY	32	17
CROSS SECTIONS STA. 7+00 TO STA. 8+50				
F.H.W.A. REG.5 ILLINOIS			CONTRACT NO. 63169	

SOUTH STREET

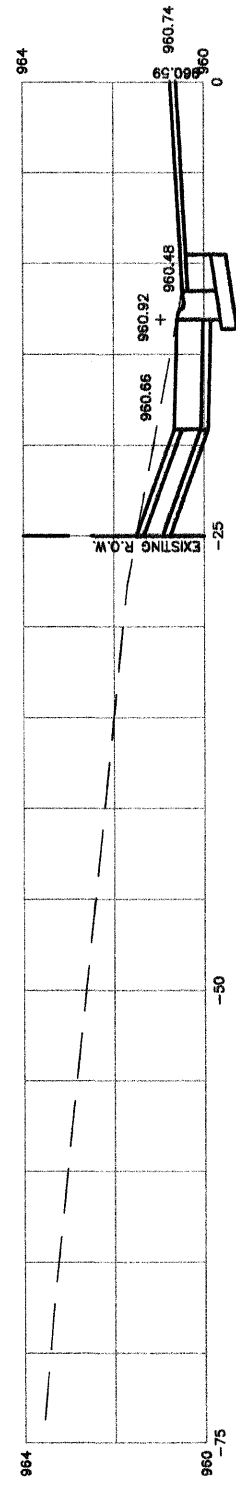
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F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS
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CROSS SECTIONS STA. 9+00 TO STA. 11+00			18
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 6316			

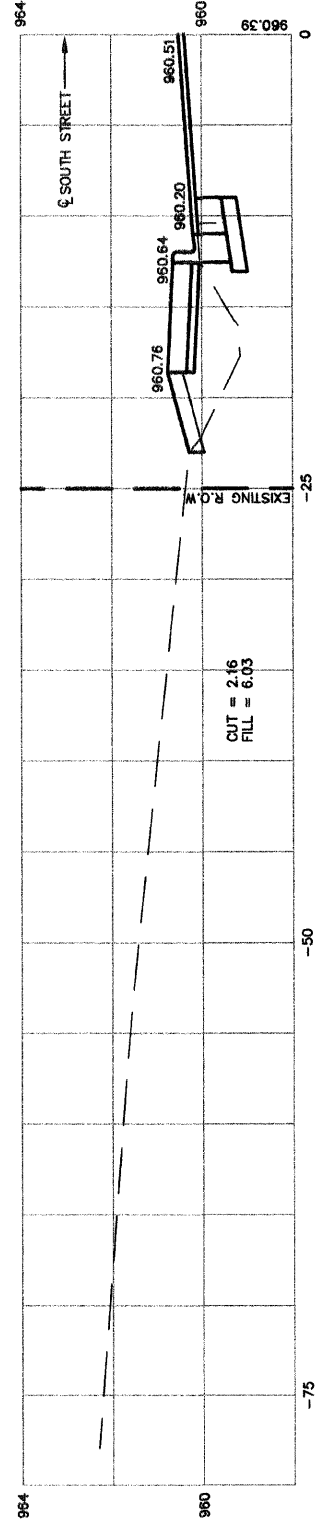
11+00



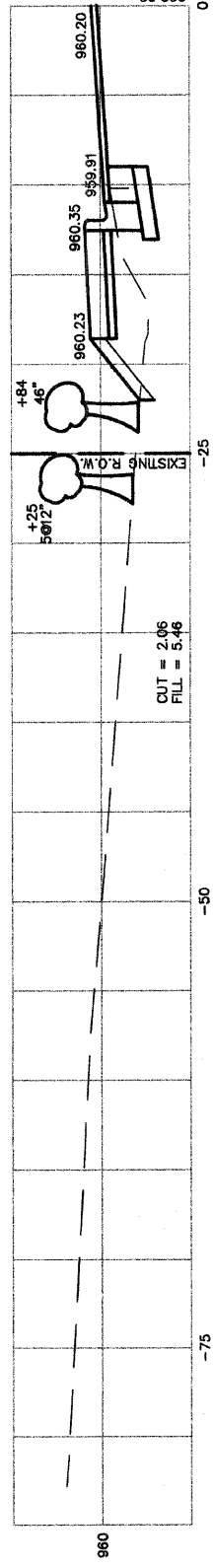
10+89
 P.E. LT.



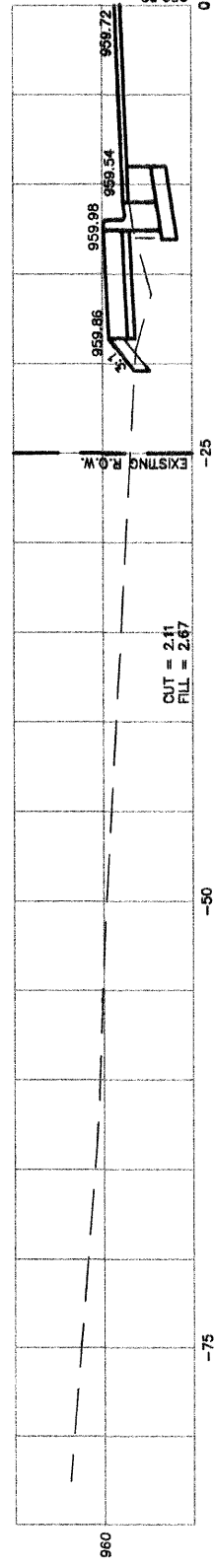
10+50



10+00



9+50



9+00

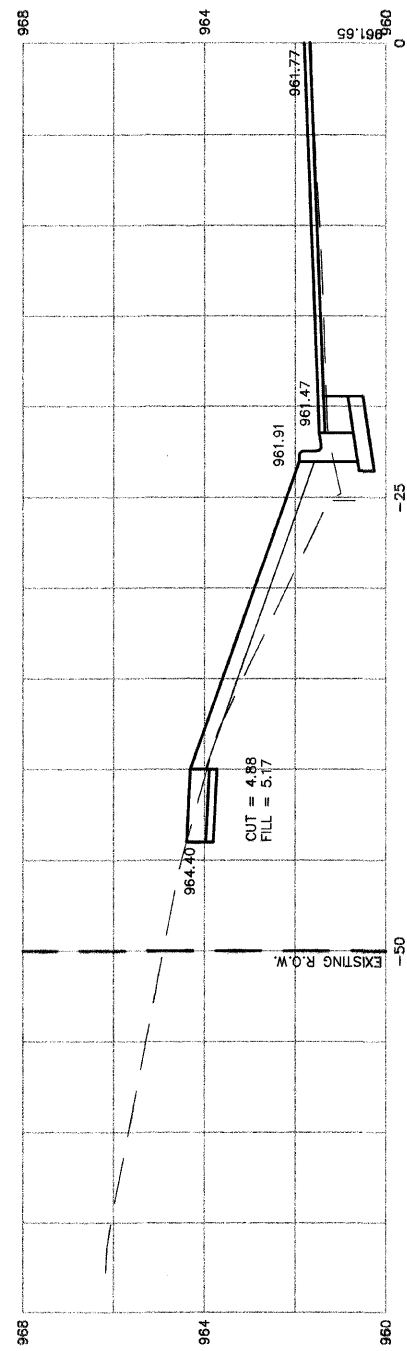


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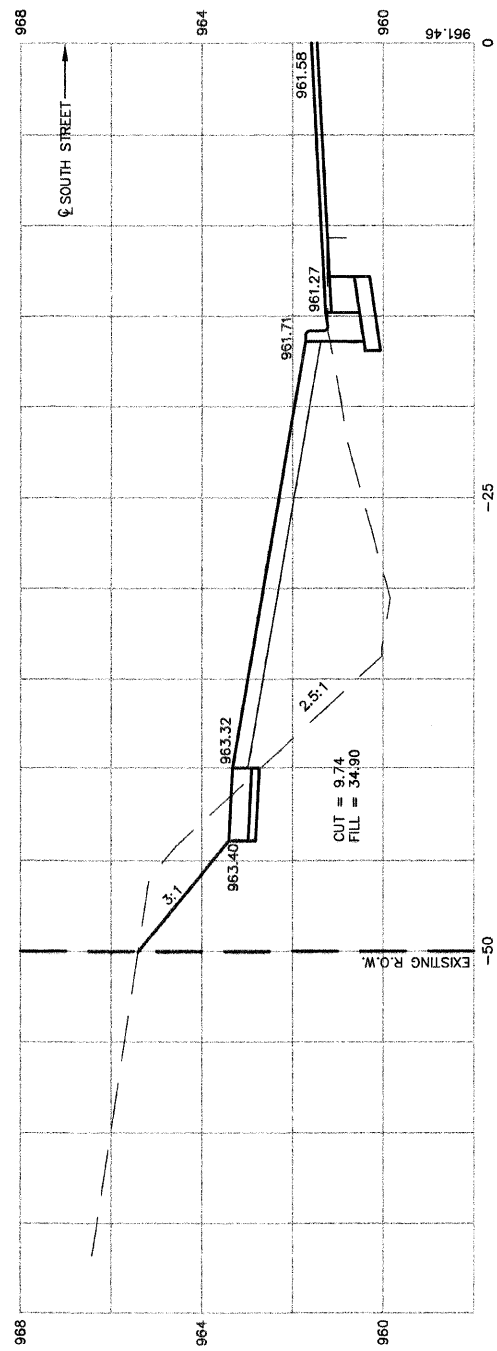
SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CROSS SECTIONS STA. 11+50 TO STA. 13+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

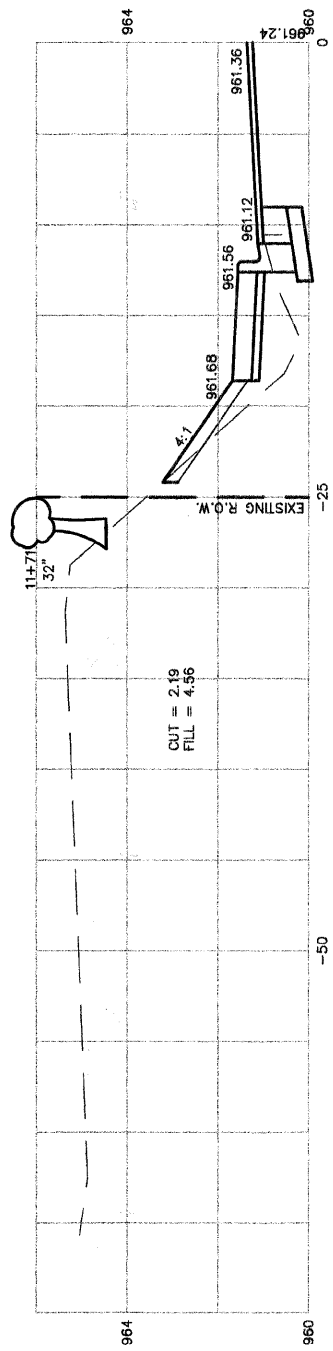
13+00



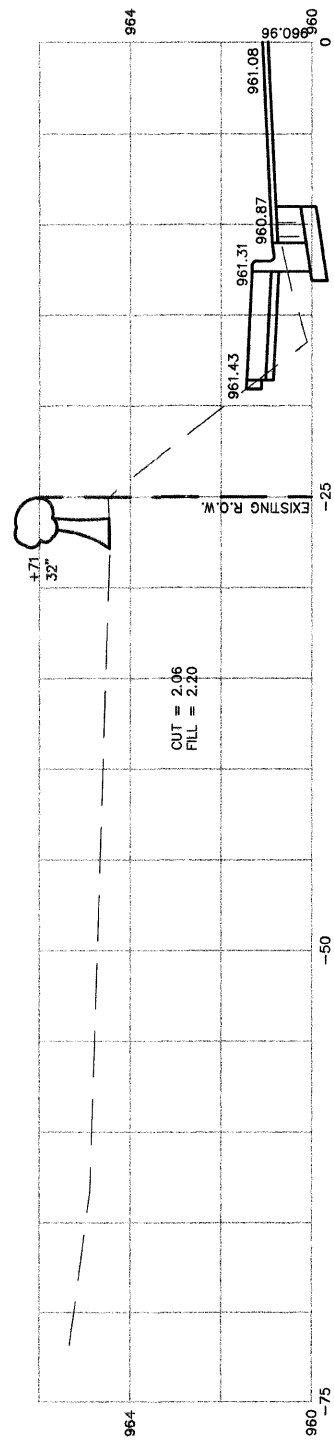
12+50



12+00



11+50

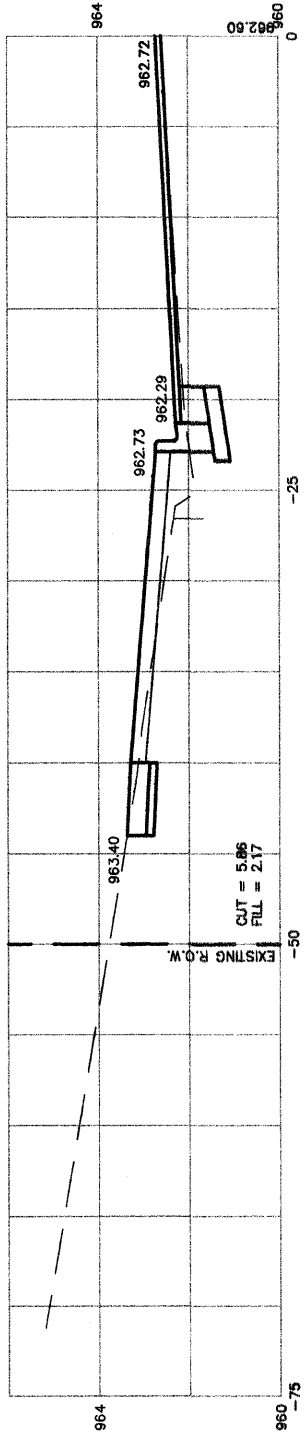


SOUTH STREET

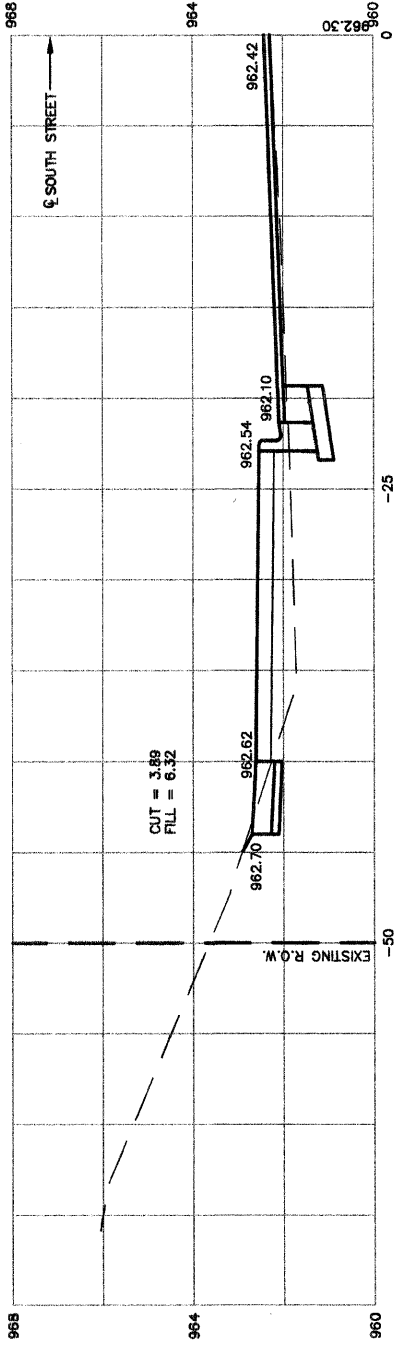
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 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS.	NO.
033	08-00109-00-RS	McHENRY	32	20
CROSS SECTIONS STA. 13+50 TO STA. 15+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

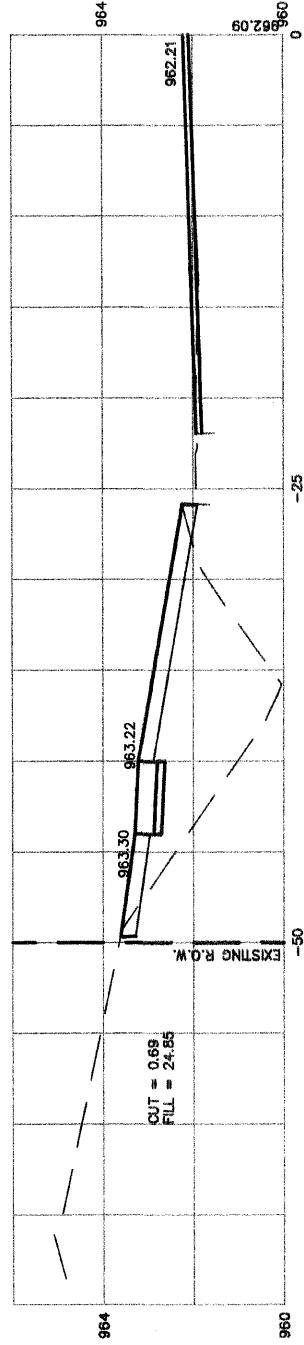
15+00



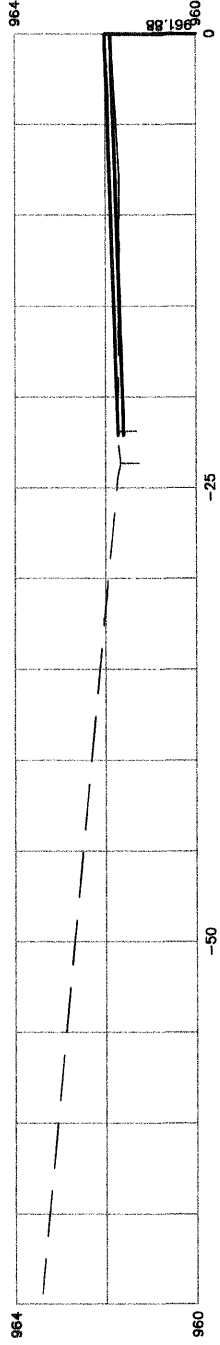
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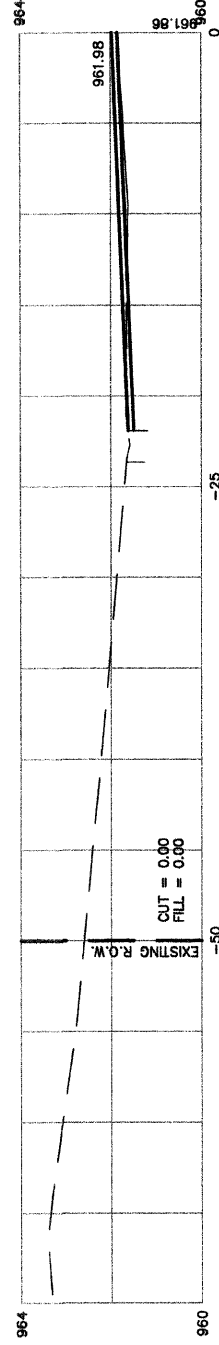
14+00



13+60
 ☉ DUVALL DRIVE



13+50

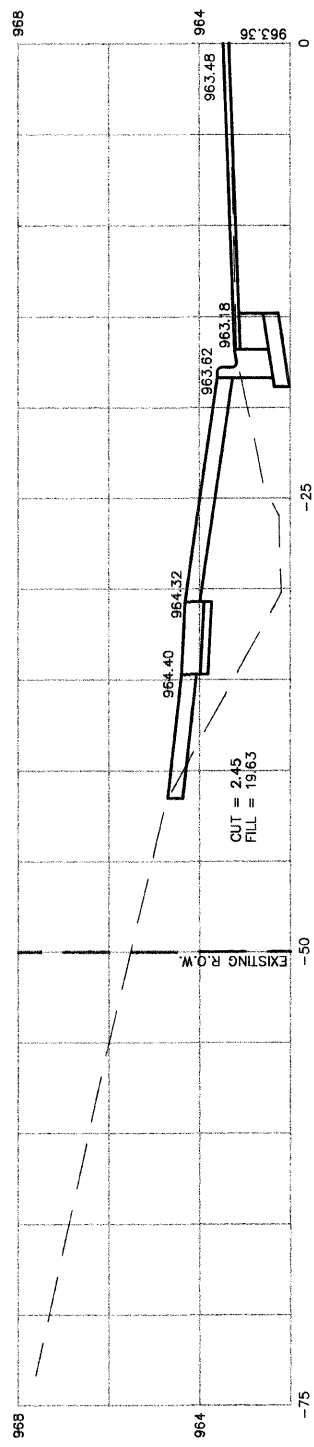


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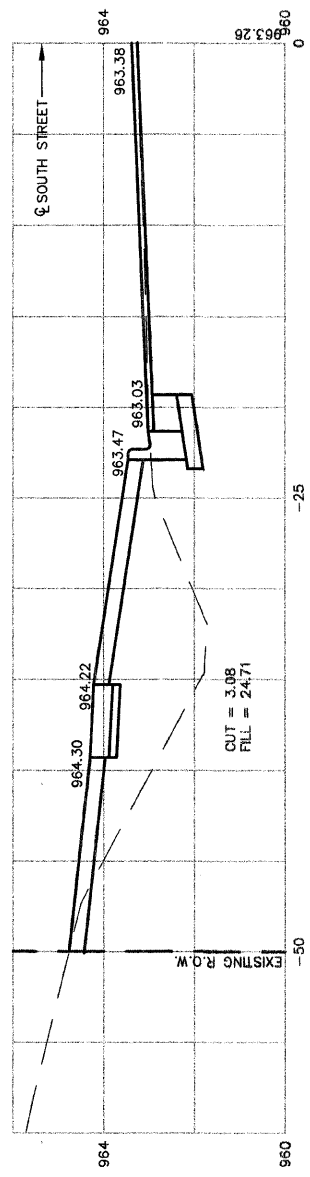
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 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	21
CROSS SECTIONS STA. 16+00 TO STA. 18+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

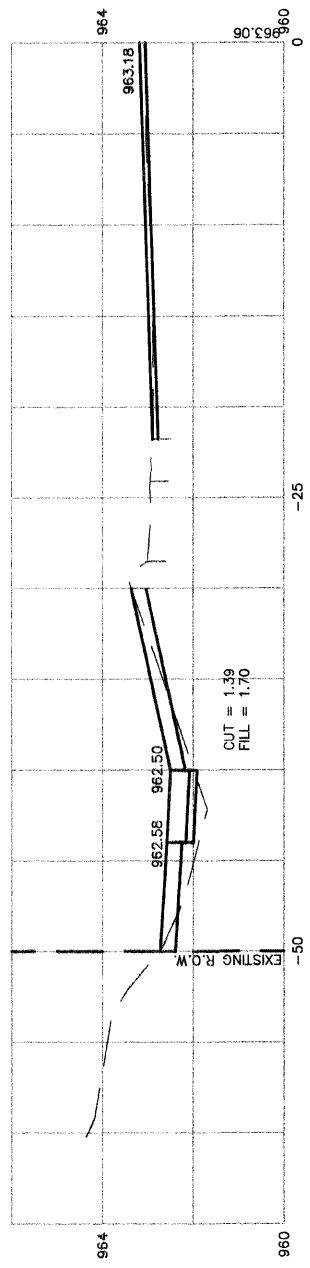
17+00



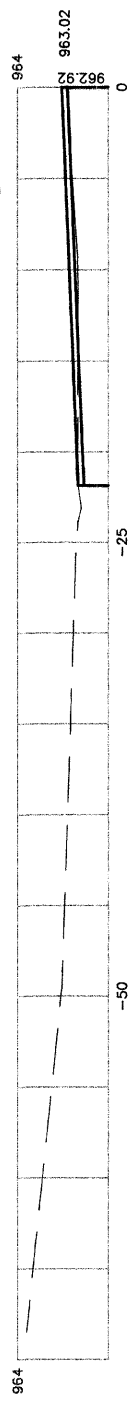
16+50



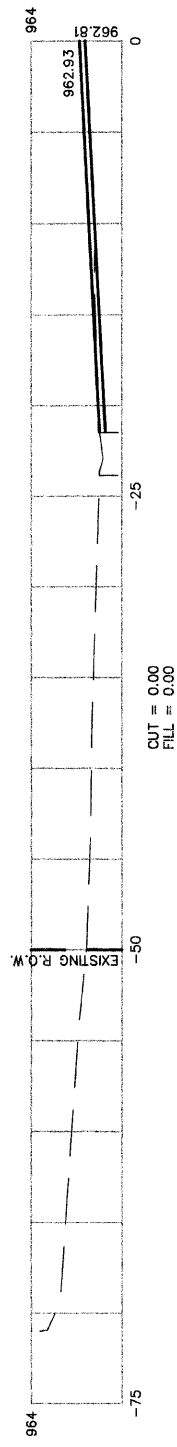
16+00



15+67
 ⊕ DUVALL DRIVE



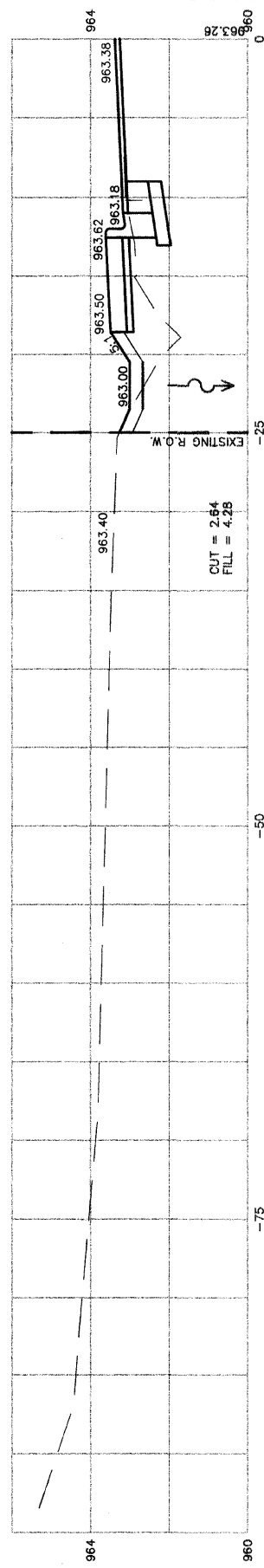
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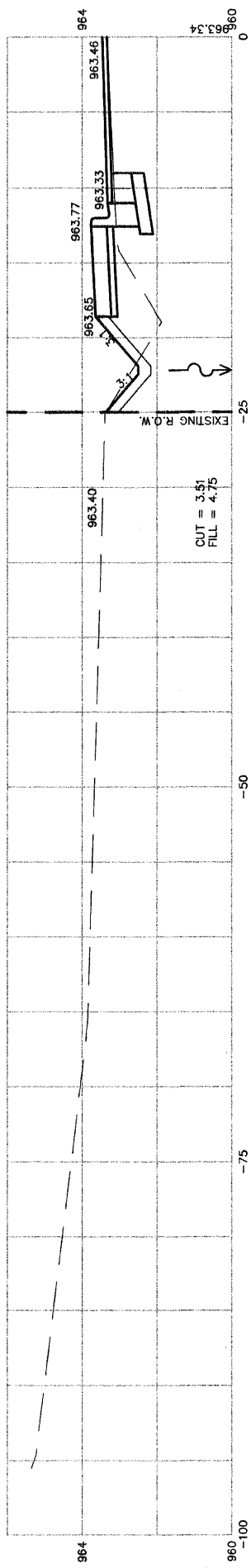
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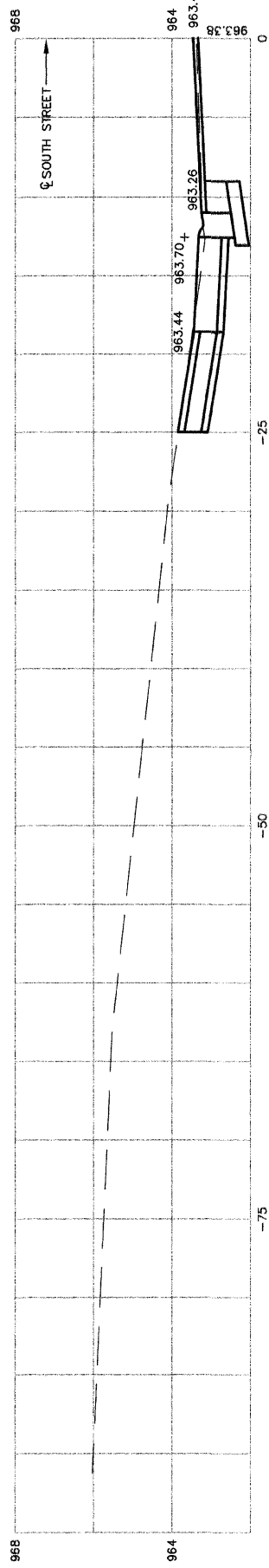
19+00



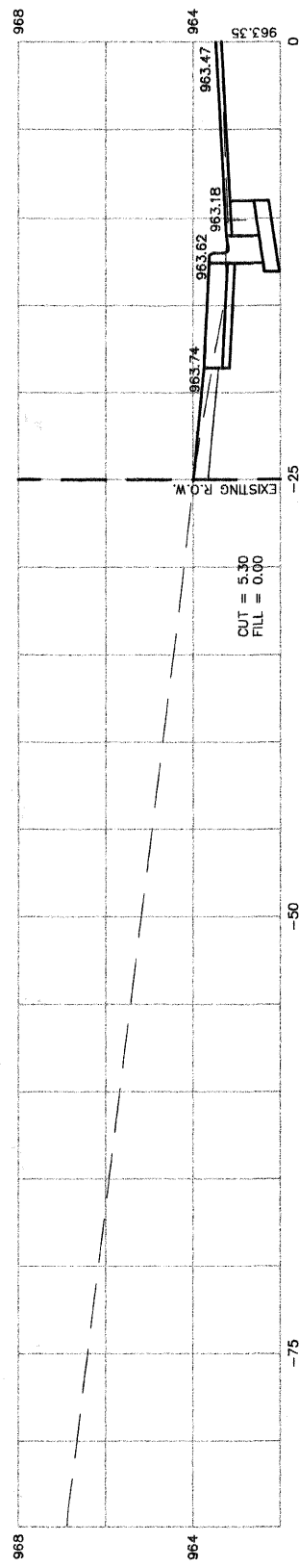
18+50



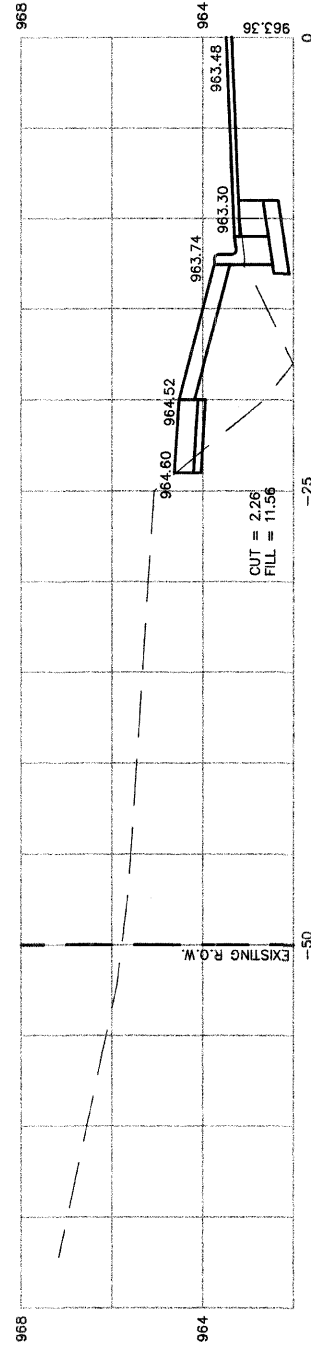
18+25
P.E. LT



18+00



17+50

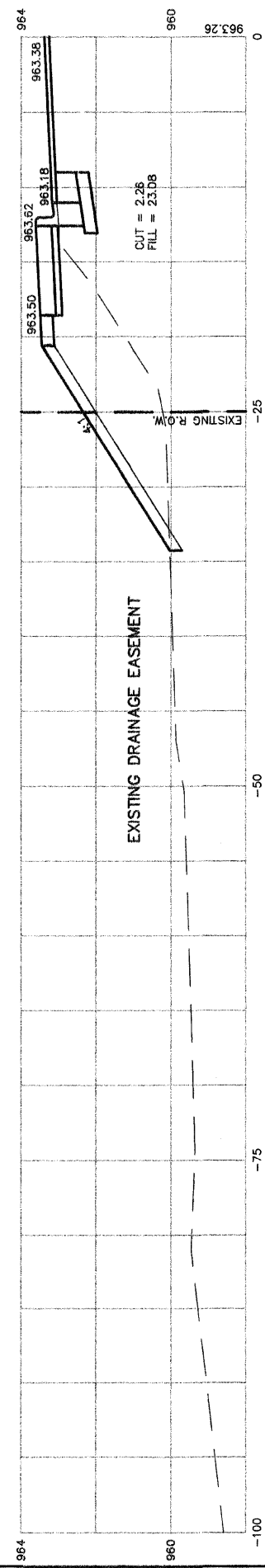


F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CROSS SECTIONS STA. 18+50 TO STA. 20+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

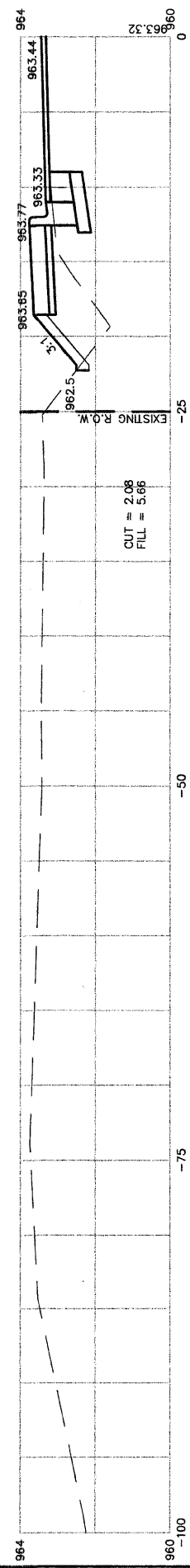
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SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

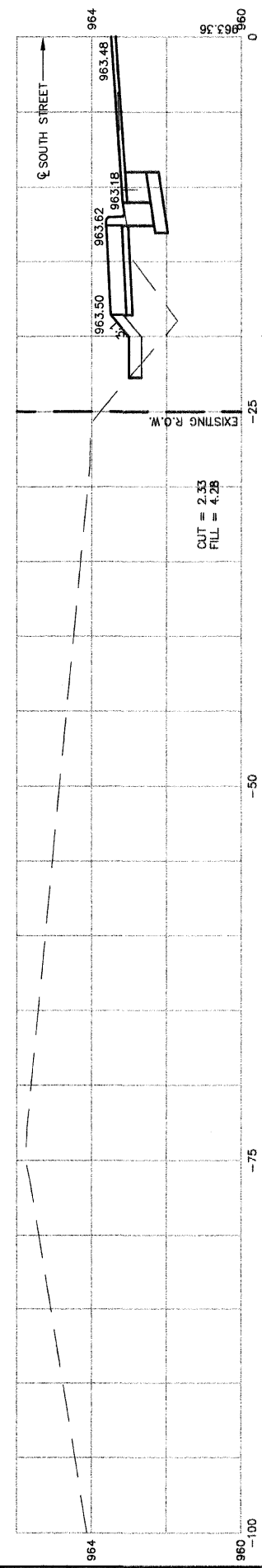
21+00



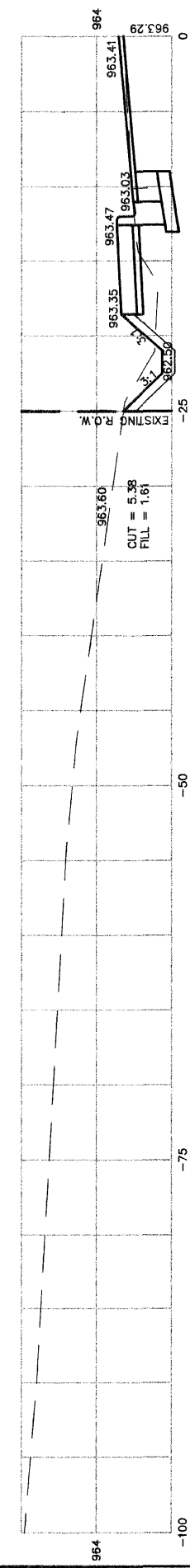
20+50



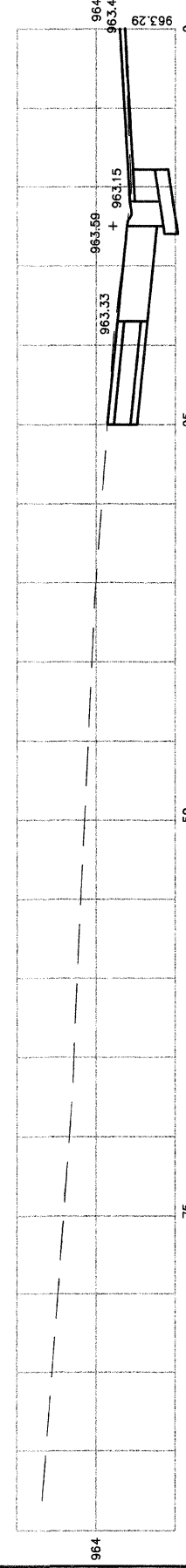
20+00



19+50



19+23
 P.E. LT.

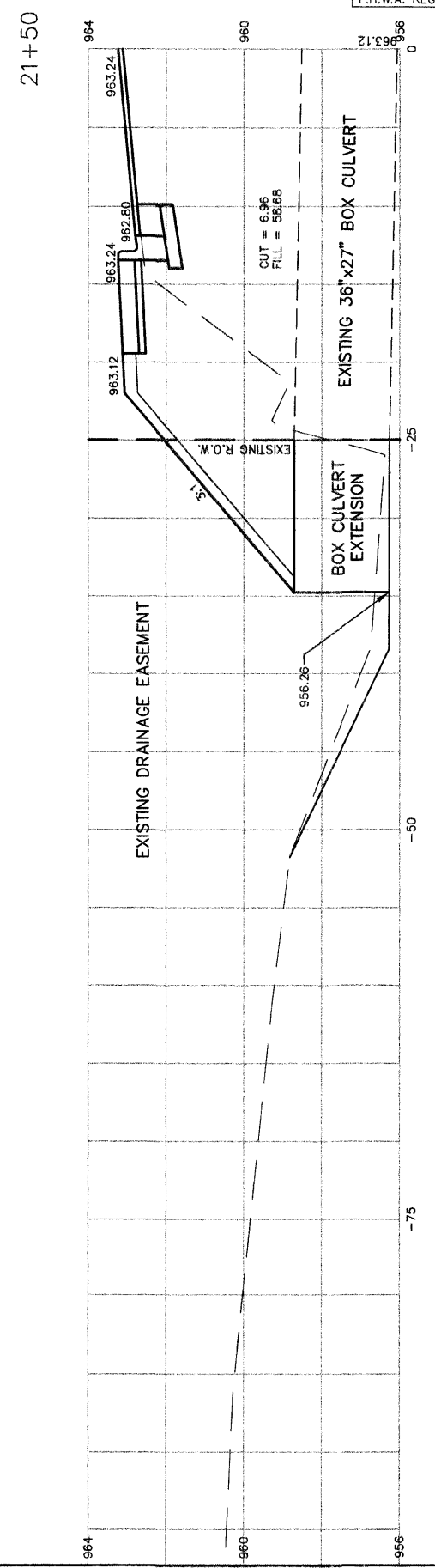
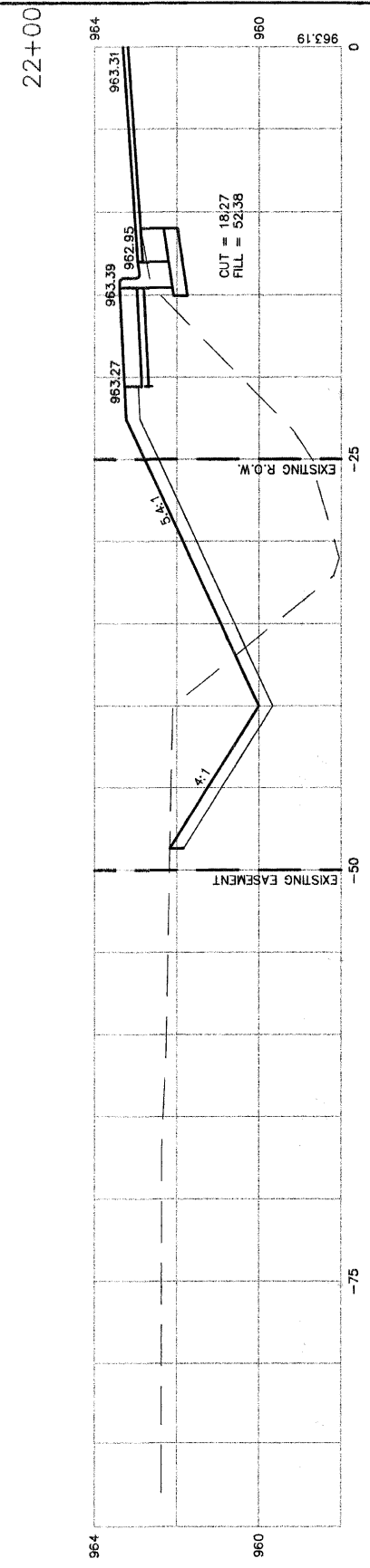
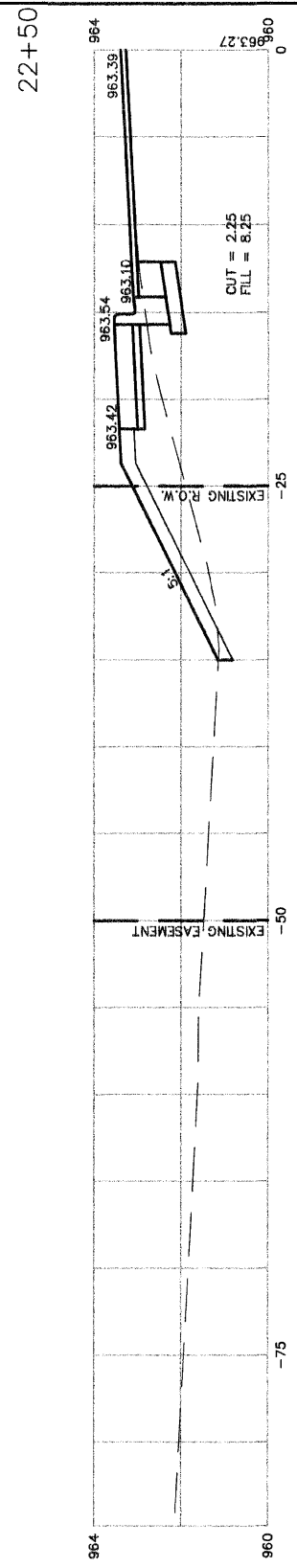
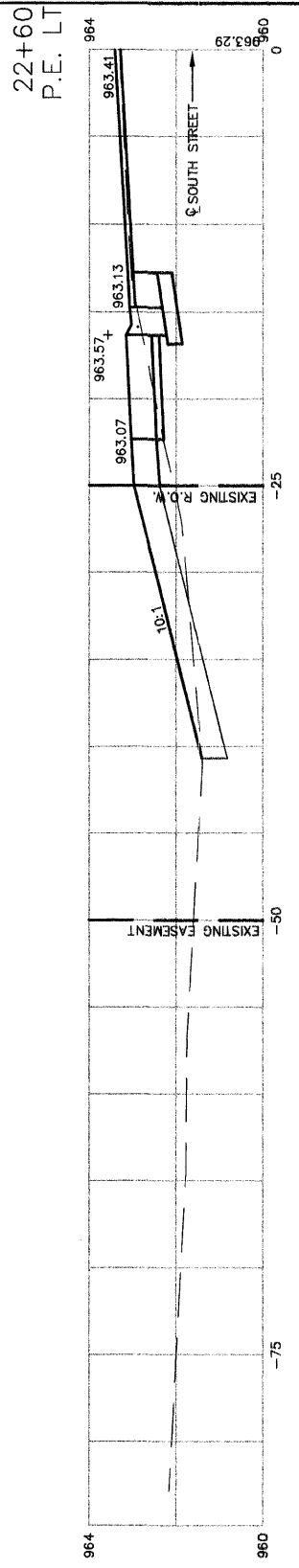
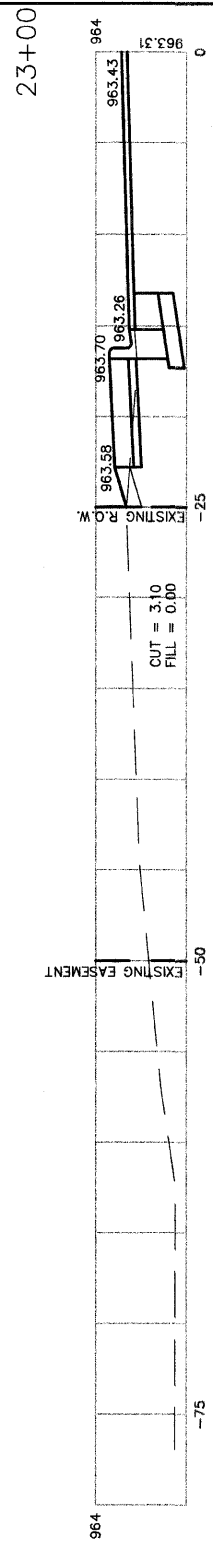


F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	23
CROSS SECTIONS STA. 20+50 TO STA. 22+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	24
CROSS SECTIONS STA. 22+50 TO STA. 25+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

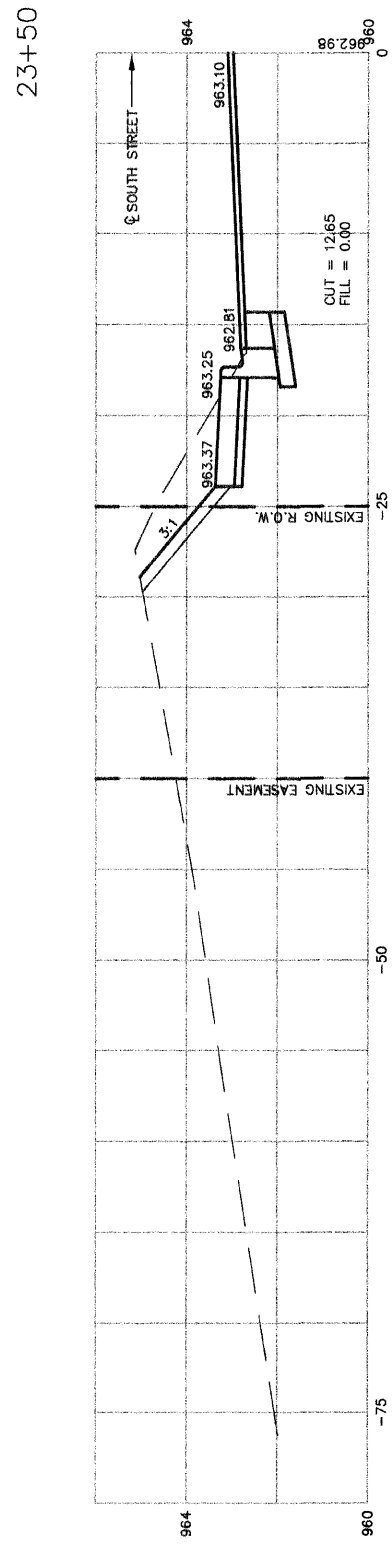
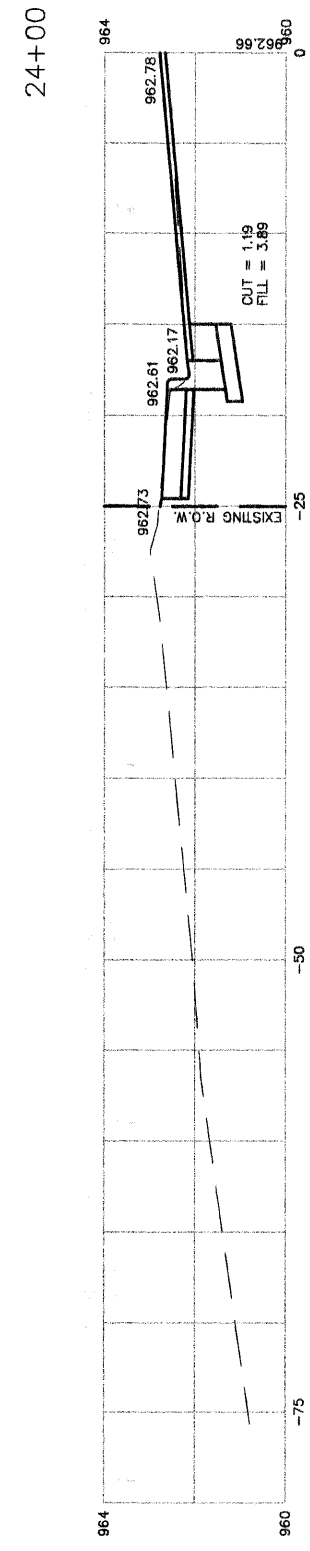
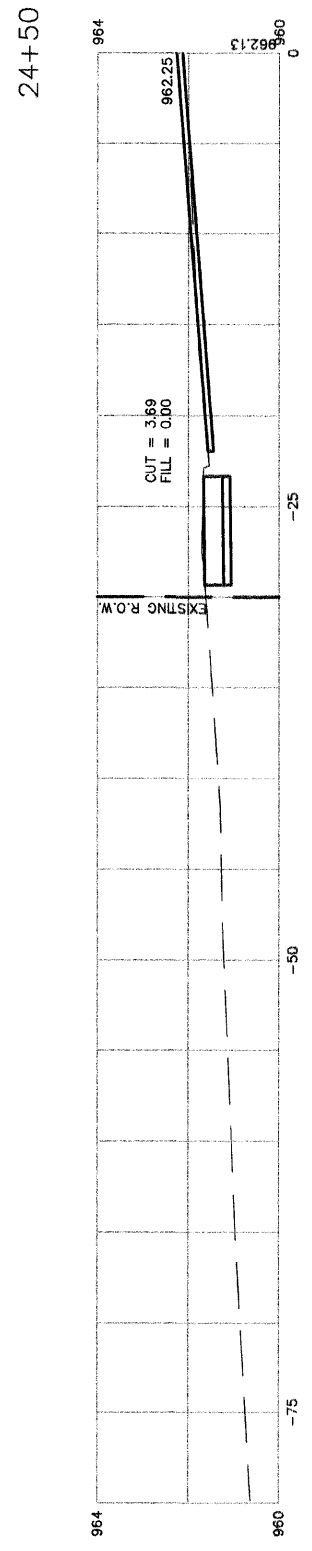
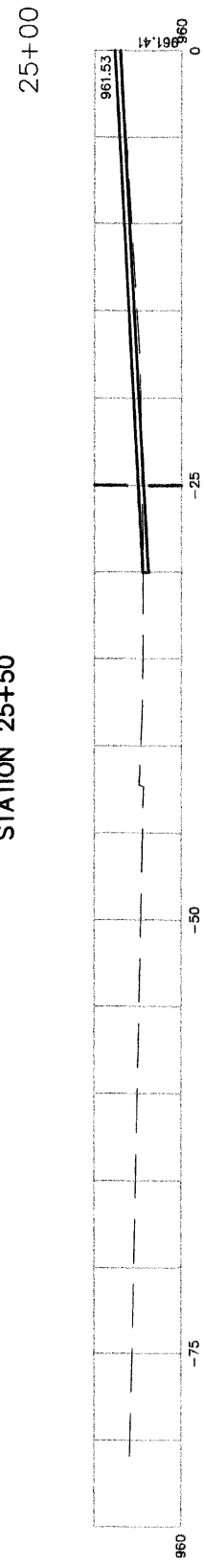


SOUTH STREET

SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	25
CROSS SECTIONS STA. 22+50 TO STA. 25+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

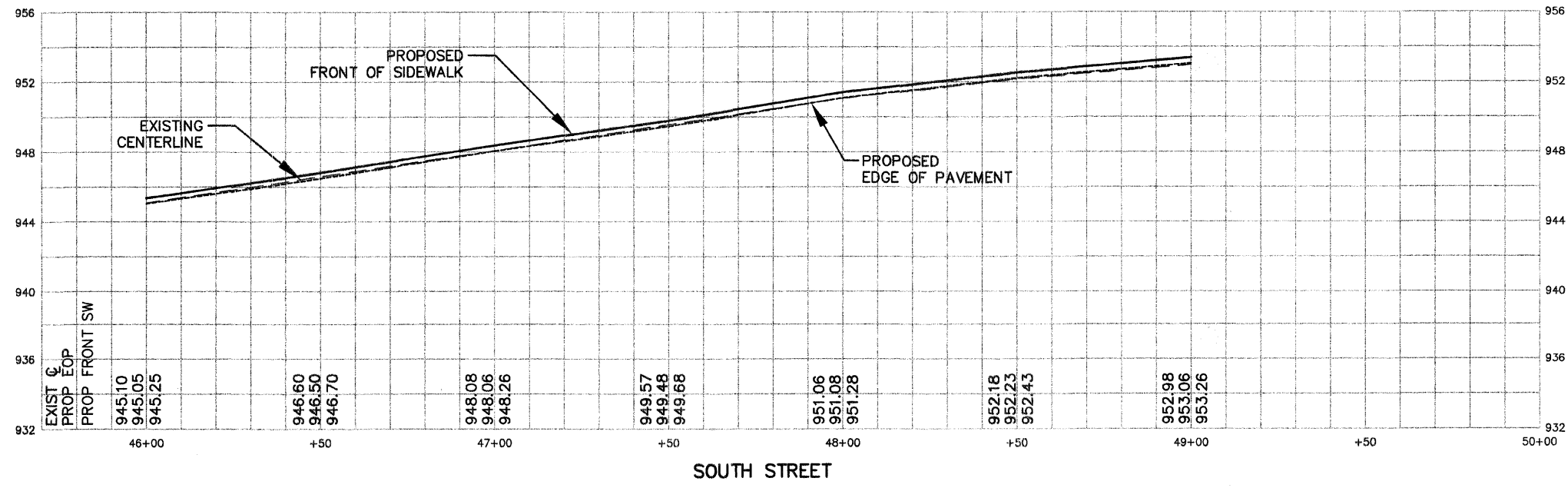
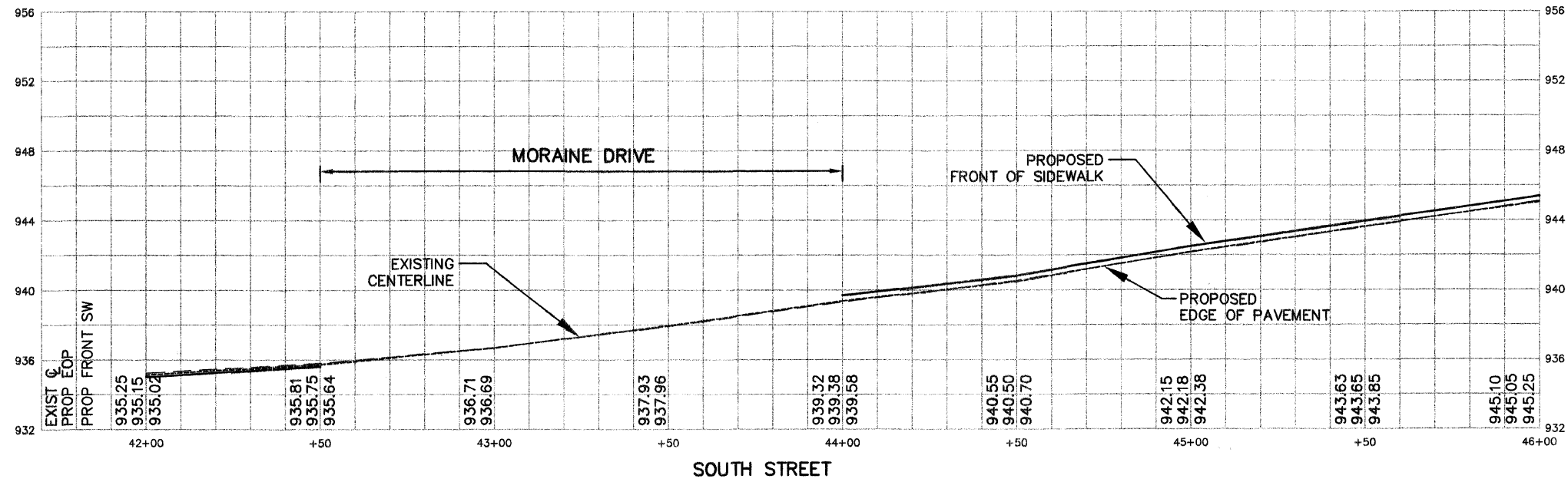
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 STATION 25+50



SOUTH STREET

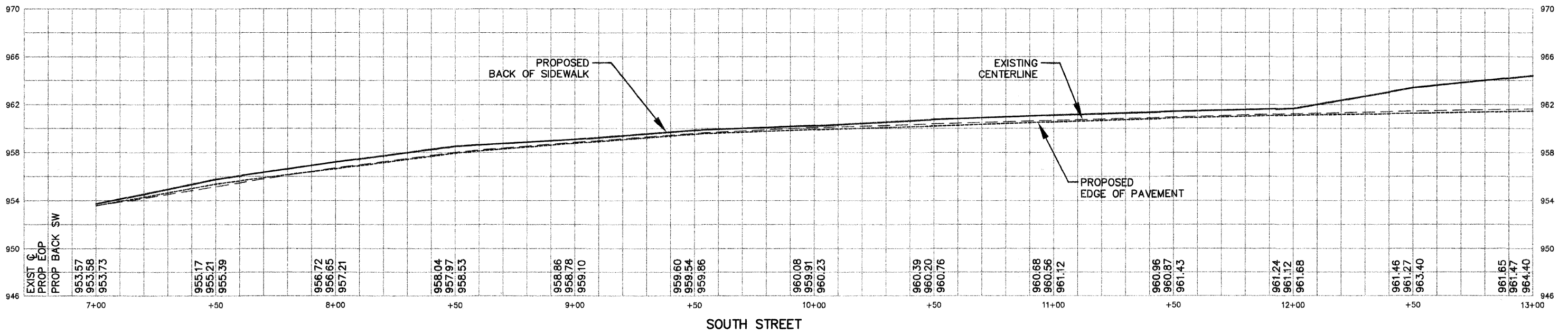
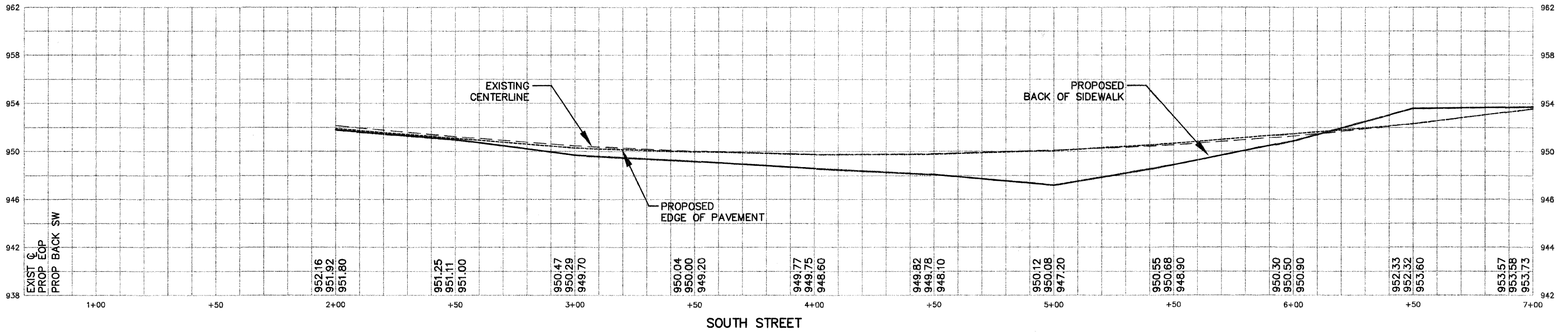
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F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEET SHTS.	SHEET NO.
033	08-00109-00-RS	McHENRY	32	26
CROSS SECTIONS STA. 22+50 TO STA. 25+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



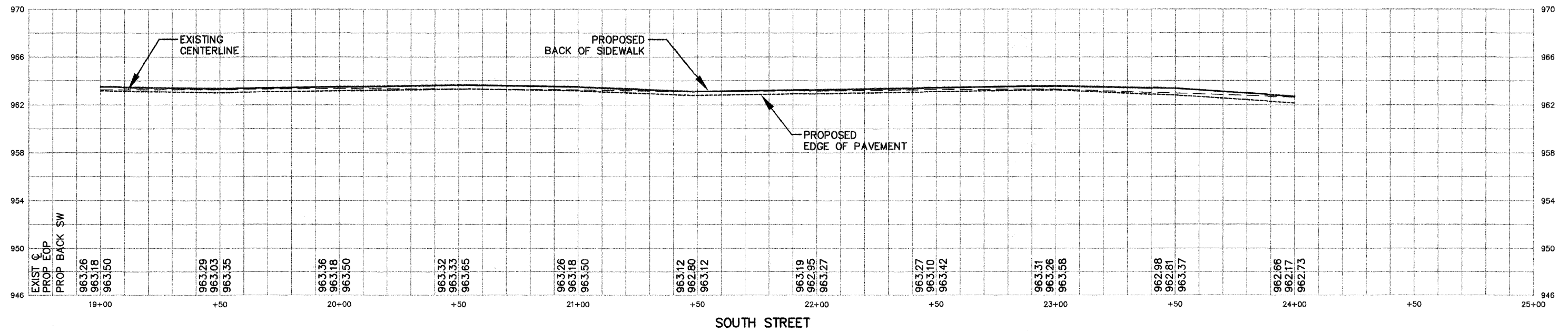
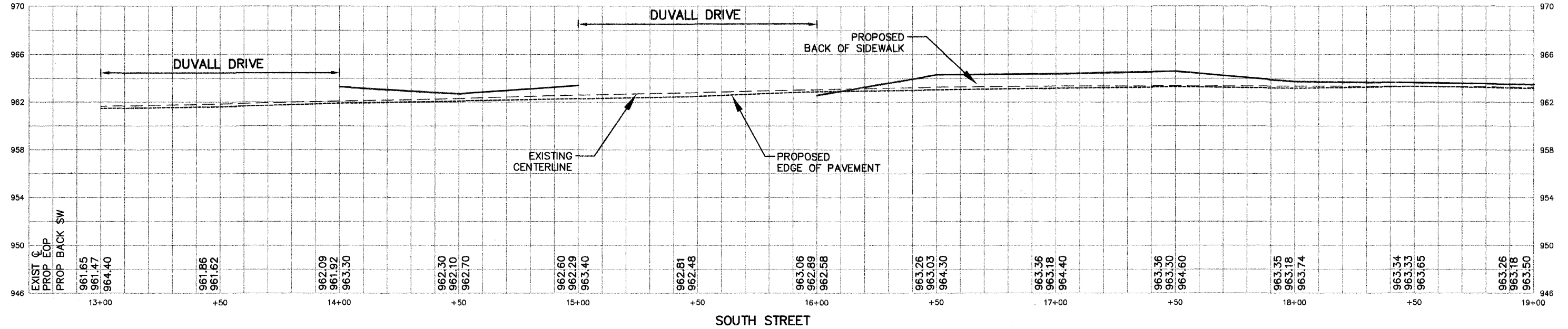
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F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-R5	McHENRY	32	27
CROSS SECTIONS STA. 22+50 TO STA. 25+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				

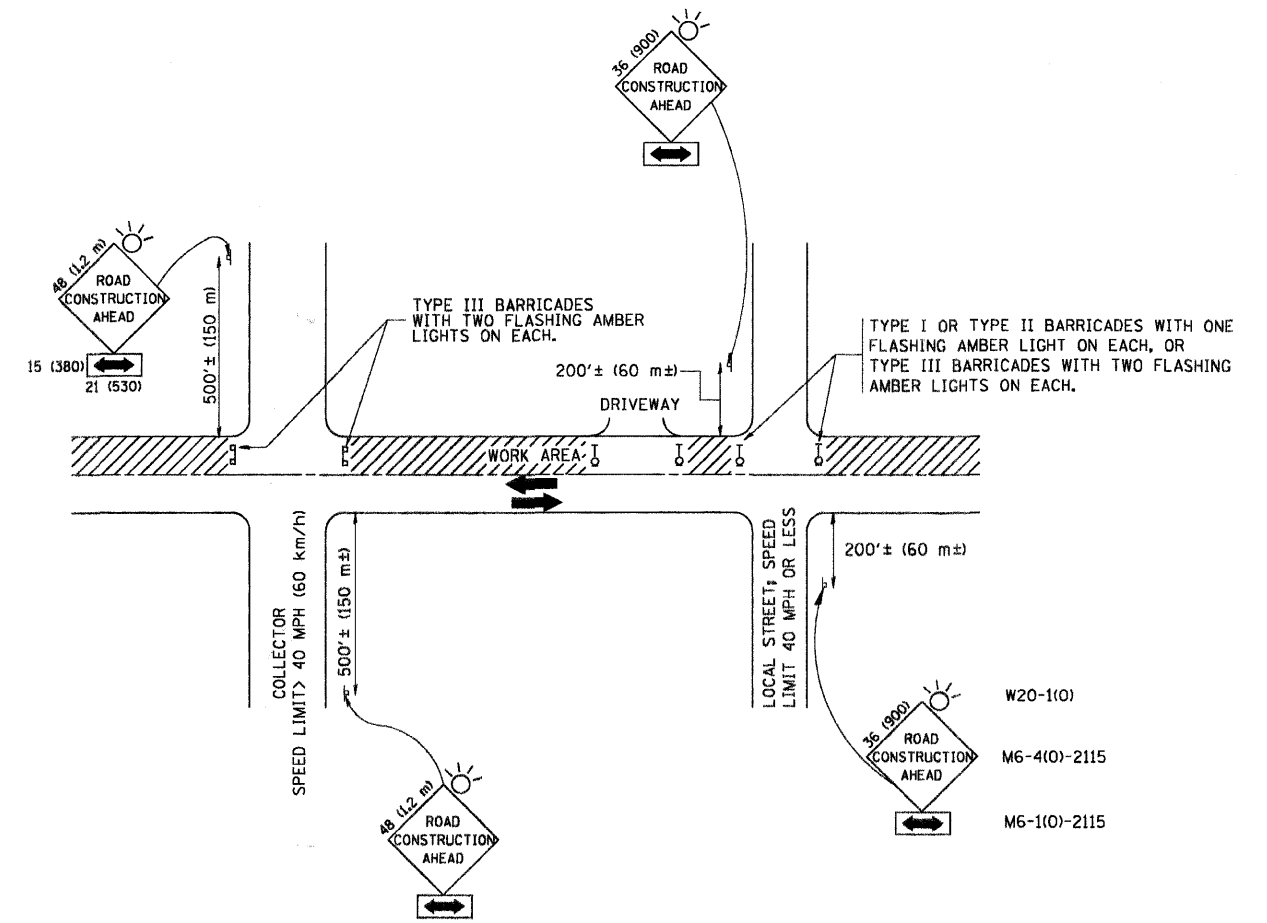


SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL

F.A.U. ROUTE	MUNICIPAL SECTION	COUNTY	TOTAL SHTS.	SHEET NO.
033	08-00109-00-RS	McHENRY	32	28
CROSS SECTIONS STA. 22+50 TO STA. 25+00				
F.H.W.A. REG.5 ILLINOIS CONTRACT NO. 63169				



SCALE: 1"=5' HORIZONTAL
 1"=2' VERTICAL



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

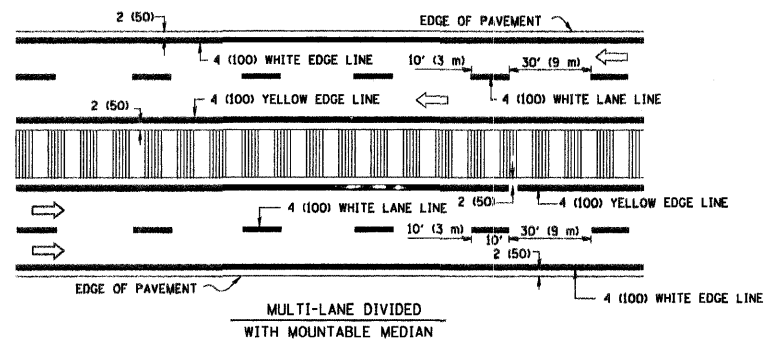
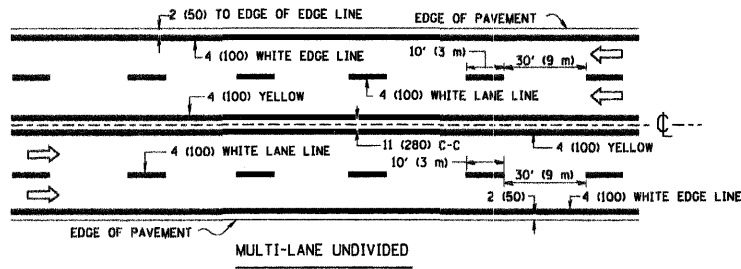
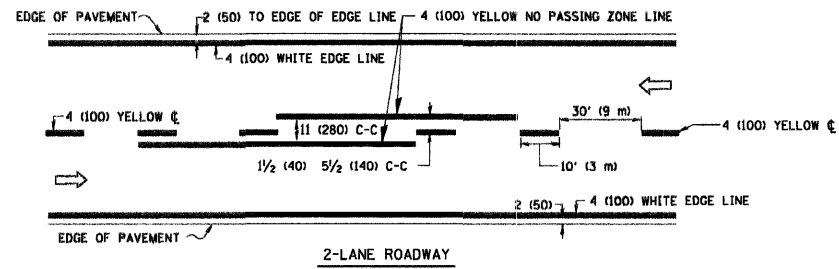
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

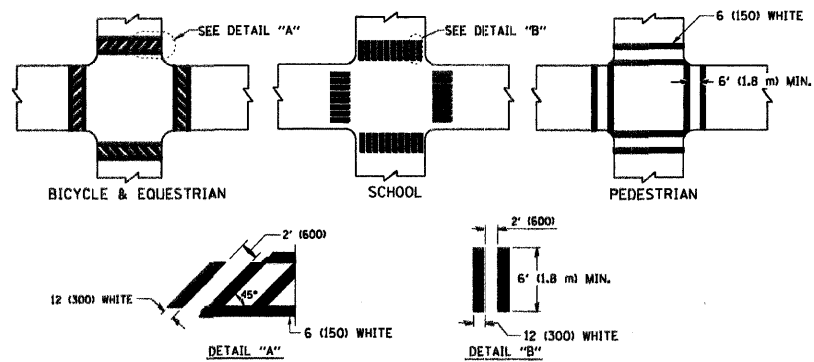
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 63169	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

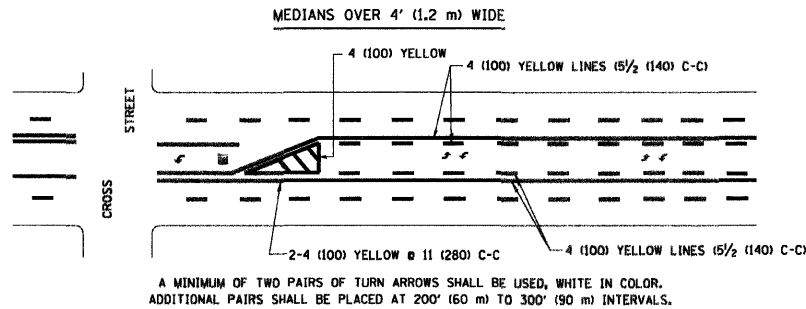
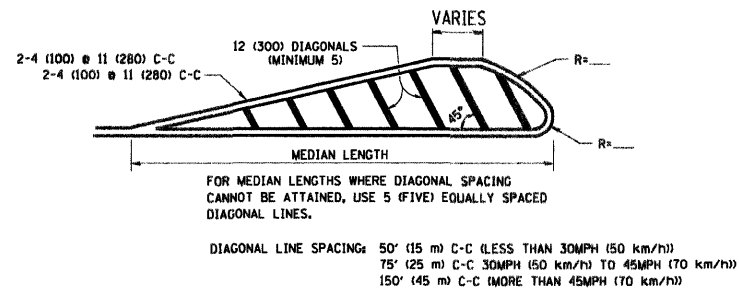
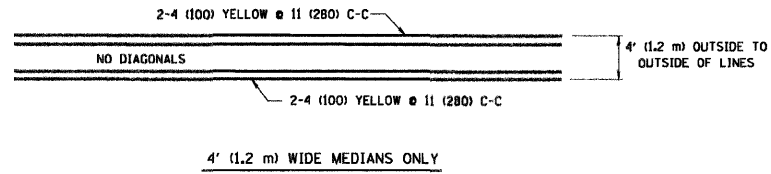


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

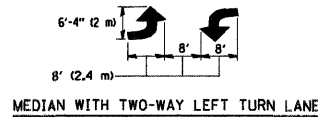


TYPICAL CROSSWALK MARKING

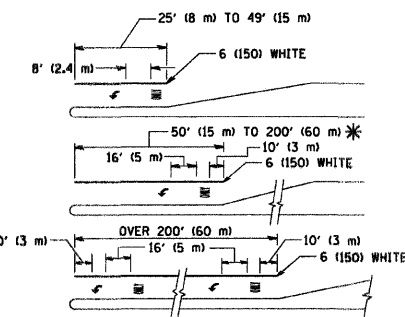


TYPICAL PAINTED MEDIAN MARKING

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

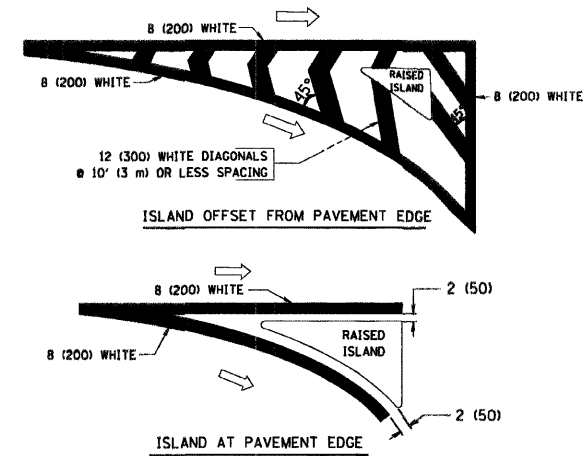


TYPICAL TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

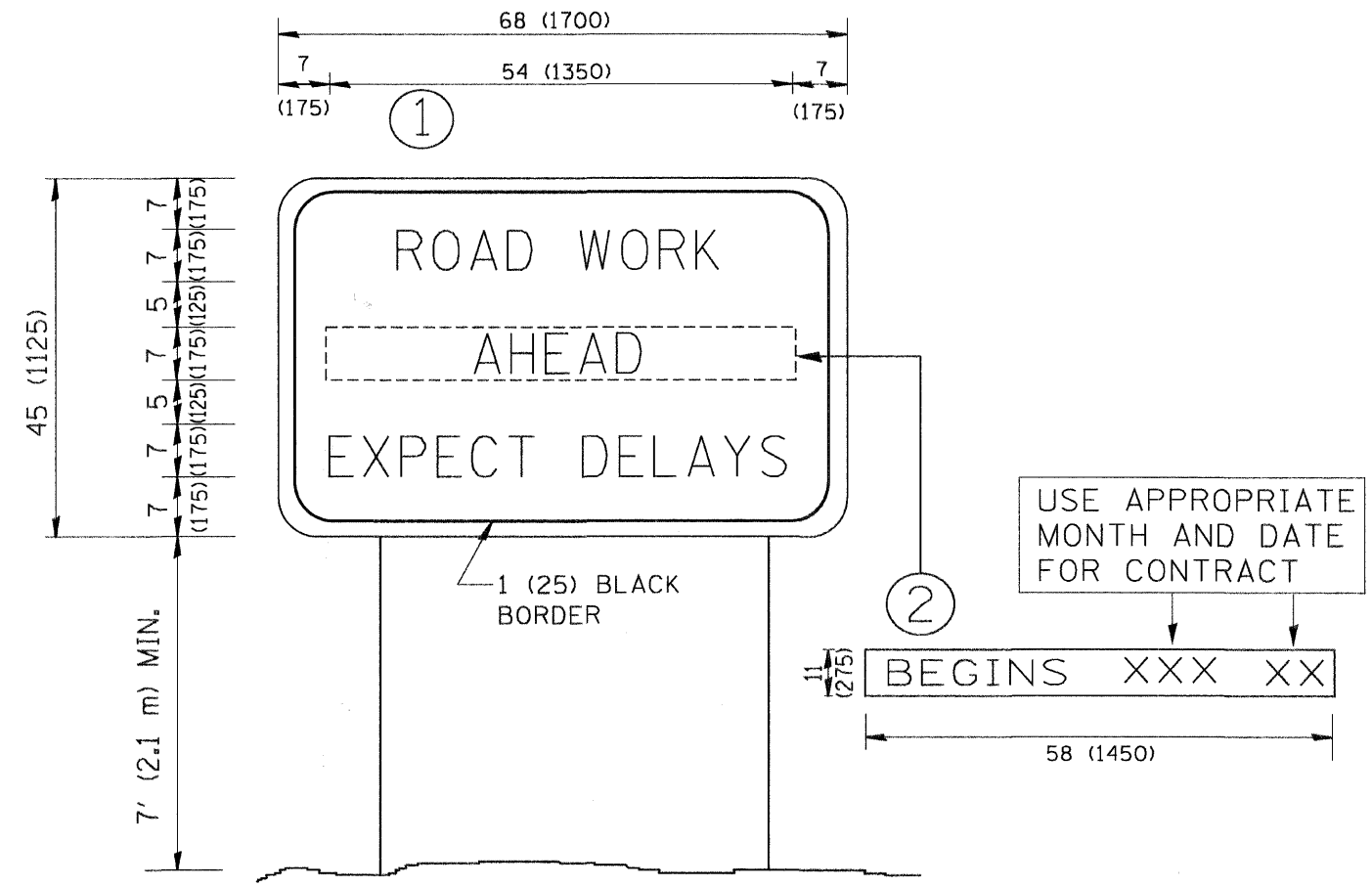
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	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 033	SECTION 08-00109-00-RS	COUNTY McHENRY	TOTAL SHEETS 32	SHEET NO. 30
TC-13			CONTRACT NO. 63169	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

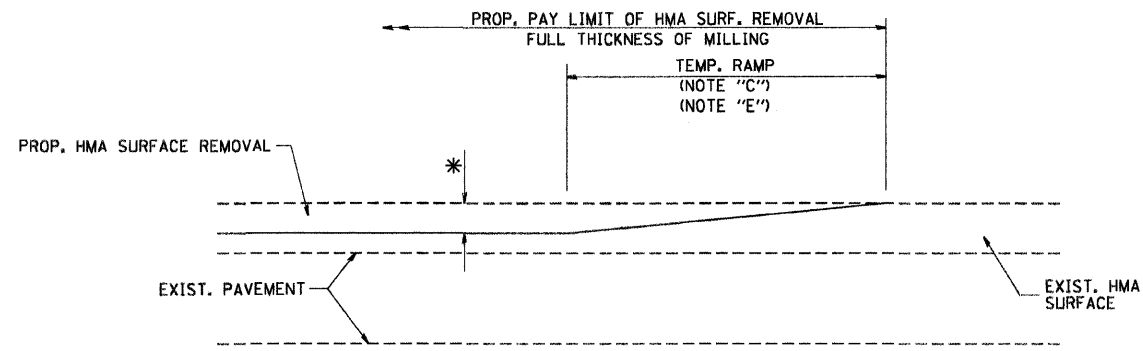
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gaglionobt	DESIGNED - DRAWN -	REVISED - REVISED -
		REVISOR - R. MIRS 09-15-97	REVISOR - R. MIRS 12-11-97
		PLOT SCALE = 50.000' / IN.	CHECKED - REVISED -
		PLOT DATE = 1/4/2008	DATE - REVISED -
			REVISED - T. RAMMACHER 02-02-99
			REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

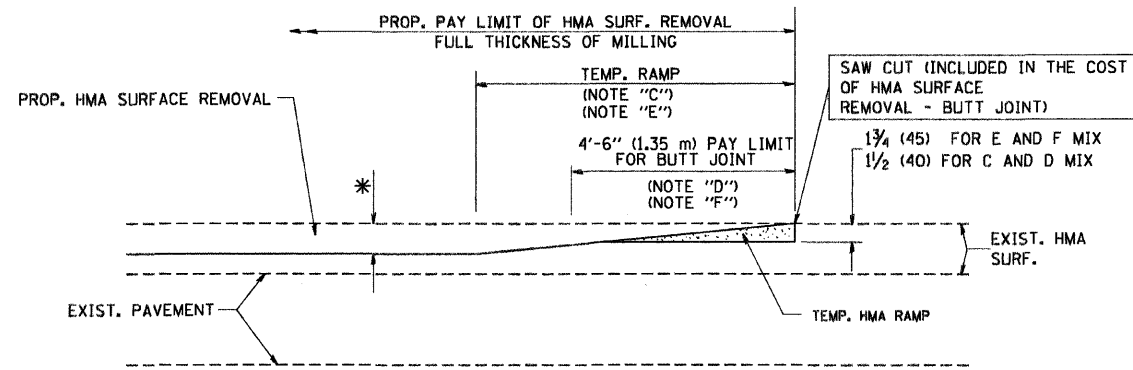
ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 033	SECTION 08-00109-00-RS	COUNTY McHENRY	TOTAL SHEETS 32	SHEET NO. 31
TC-22		CONTRACT NO. 63169		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

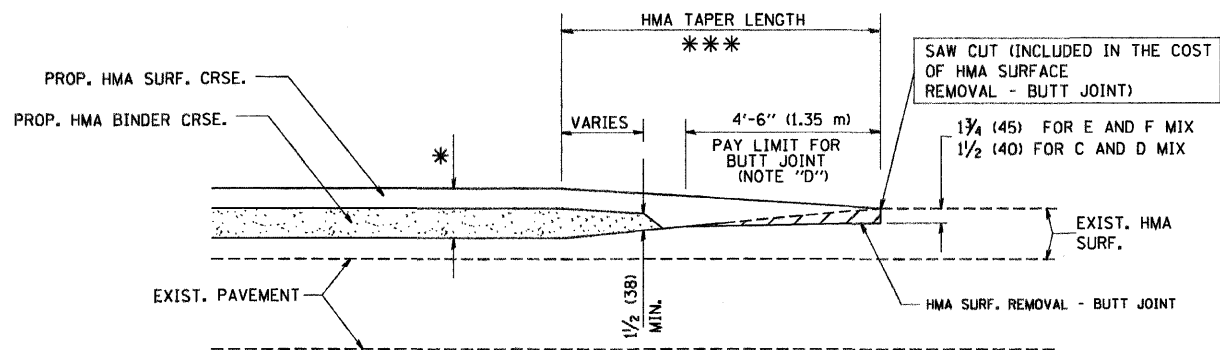
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

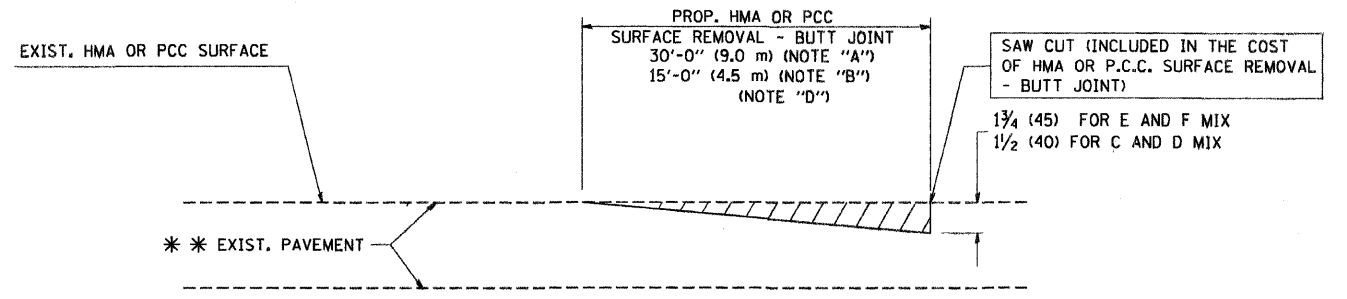
OPTION 2

TYPICAL TEMPORARY RAMP

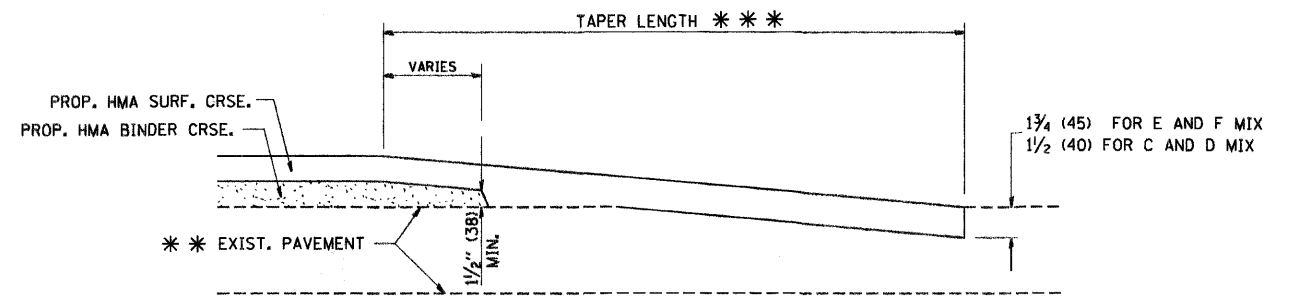


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

FILE NAME = W:\distata\22x34\bd32.dgn

USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
033	08-00109-00-RS	McHENRY	32	32
BD400-05 BD32			CONTRACT NO. 63169	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				