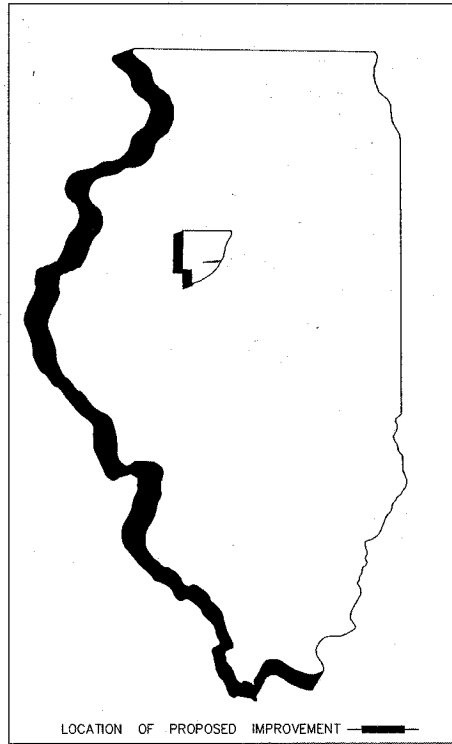


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	100	1
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BRS-0389(104)	
CONTRACT NO. 89323				

STATE OF ILLINOIS
 PEORIA COUNTY HIGHWAY DEPARTMENT
 PLANS FOR PROPOSED
 MAJOR BRIDGE FUND CONSTRUCTION
 FEDERAL AID SECONDARY 389
 SECTION 93-00049-00-BR
 FED. RD. DIST. NO. 7 PROJECT BRS-0389(104)
 CONTRACT NO. 89323 JOB NO. C-94-011-04



INDEX OF SHEETS

2	TYPICAL SECTIONS
3	PROPOSED DRIVEWAY TYPICAL SECTIONS
4-7	SUMMARY OF QUANTITIES
8	DETOUR
9	STAGING PLAN
10-14	RIGHT OF WAY STRIP MAP
15-17	PLAN AND PROFILE
18-23	PLAN DETAIL SHEETS
24-31	BRIDGE PLANS
32-37	WATER LINE RELOCATION DETAILS
38-50	SOIL BORINGS
51	SUPERELEVATION DEVELOPMENT
52	FINISHED GRADE ELEVATIONS
53-55	EROSION CONTROL PLAN
56-58	TREE REMOVAL DETAIL
59-60	DROP BOX DETAIL
61	MODULAR RETAINING WALL SYSTEM DETAIL
62-98	CROSS SECTIONS
99	PEORIA COUNTY BENCHMARK
100	SLOPE STEPS DETAILS

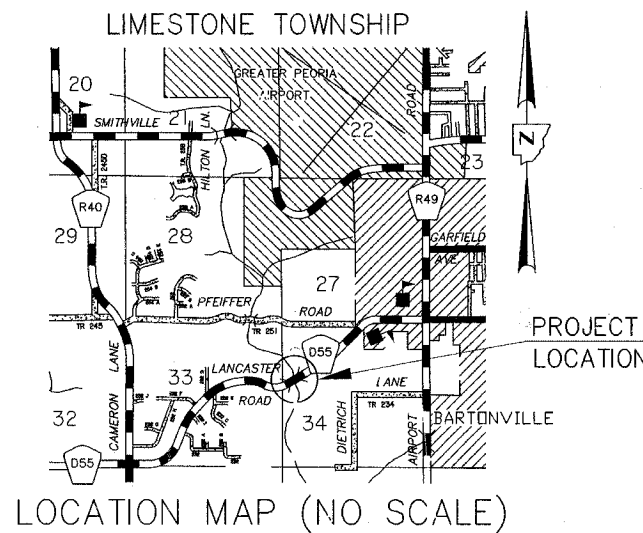
LIST OF STANDARDS

280001-03	TEMPORARY EROSION CONTROL SYSTEMS
285001-01	FABRIC FORMED CONCRETE REVETMENT MATS
482001-01	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
602401-01	MANHOLE TYPE A
604001-02	FRAME AND LIDS TYPE I
606101-02	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
631026-03	TRAFFIC BARRIER TERMINAL TYPE 5 & 5A
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
665001-01	WOVEN WIRE FENCE
666001	RIGHT OF WAY MARKERS
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5m (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701206-01	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS > 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701331-02	LANE CLOSURE, 2L, 2W, WITH RUN-AROUND, FOR SPEEDS > 45 MPH
701336-04	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
BLR 21-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-1	TRAFFIC BARRIER TERMINAL TYPE I

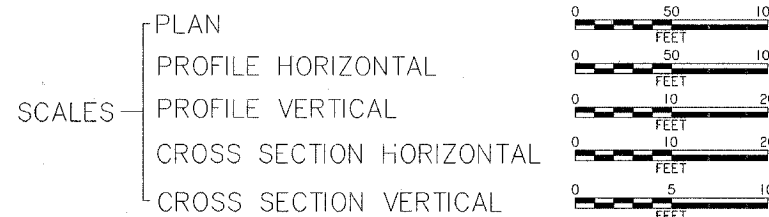
DISTRICT STANDARDS (SEE SPECIAL PROVISIONS):

SLOPE BENCHING DETAIL
 205001-04

THESE PLANS WERE PREPARED BY A FULL TIME MEMBER OF MY STAFF UNDER MY PERSONAL SUPERVISION.



OLD SN: 072-3060 - 3 SPAN CONCRETE BRIDGE ON I-BEAMS, 115' LONG
 NEW SN: 072-3145 - 3 SPAN 33" PPC DECK BEAM BRIDGE, 210' LONG



TOTAL AND NET LENGTH OF PROJECT: 3750 FEET (0.71 mi.)
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (RURAL)
 CURRENT ADT: 4750 DESIGN GUIDELINES: RURAL
 VARIANCES GRANTED: SUPER DISTRIBUTION BETWEEN TANGENT & CURVE
 COMMITMENTS: NONE

J.U.L.I.E.: 1-800-892-0123

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	<u>April 5</u> 20 <u>07</u> COUNTY ENGINEER
PASSED	<u>April 16</u> 20 <u>07</u> DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<u>April 16</u> 20 <u>07</u> DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER

PEORIA COUNTY ENGINEER

April 5, 2007
 DATE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS:

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	STA. 12+50 TO STA. 50+00	STA. 12+50 TO STA. 29+43.19 STA. 31+53.19 TO STA. 50+00	STA. 45+40 TO STA. 46+60	STA. 45+40 TO STA. 46+60
MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE	SHOULDER (SURFACE LIFE)	SHOULDER (LOWER LIFE)
PG	PG64-22	PG64-22	PG64-22	PG64-22
RAP %: (MAX) **	15%	25%	15%	25%
DESIGN AIR VOIDS:	4.0% @ Ndes = 50	4.0% @ Ndes = 50	4.0% @ Ndes = 50	4.0% @ Ndes = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-12.5 OR IL-9.5	IL 19.0	IL-12.5 OR IL-9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE D	N/A	MIXTURE D	N/A

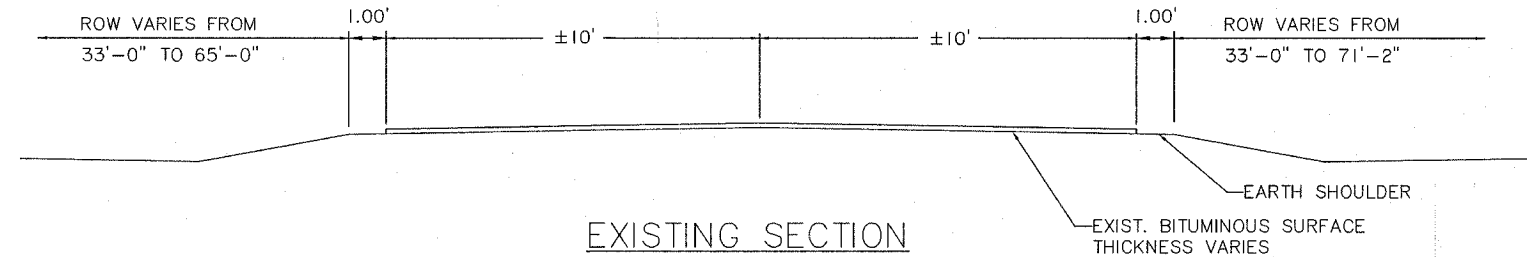
** IF >15% RAP IS USED, THE CONTRACTOR MAY BE REQUIRED TO USE A SOFTER GRADE OF ASPHALT AS DETERMINED BY THE MATERIALS ENGINEER.

FULL DEPTH HOT-MIX ASPHALT PAVEMENT:

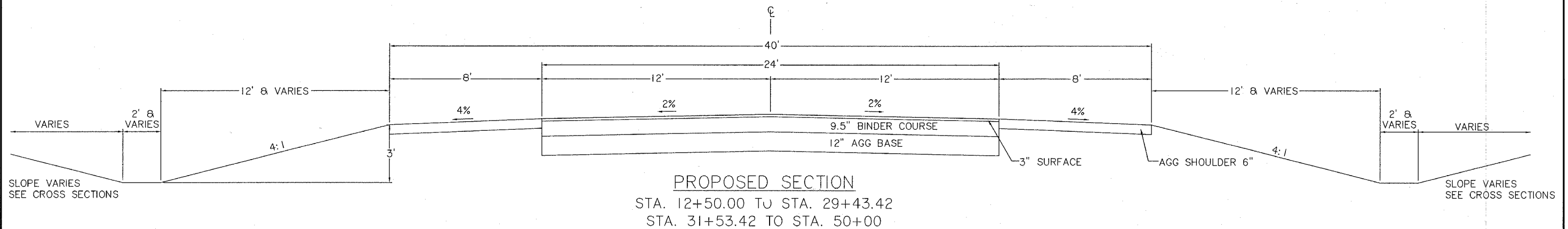
STRUCTURAL DESIGN TRAFFIC: YEAR 2027
 PV = 5208 SU = 264 MU = 33
 73,280 POUND LOAD LIMIT
 STREET CLASSIFICATION: CLASS II

PERCENT OF STRUCTURAL TRAFFIC IN DESIGN LANE:
 P = 50 S = 50 M = 50
 TRAFFIC FACTOR: ACTUAL TF = 0.35
 AC TYPE = SEE TABLE
 SUBGRADE SUPPORT RATING: POOR

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	2
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

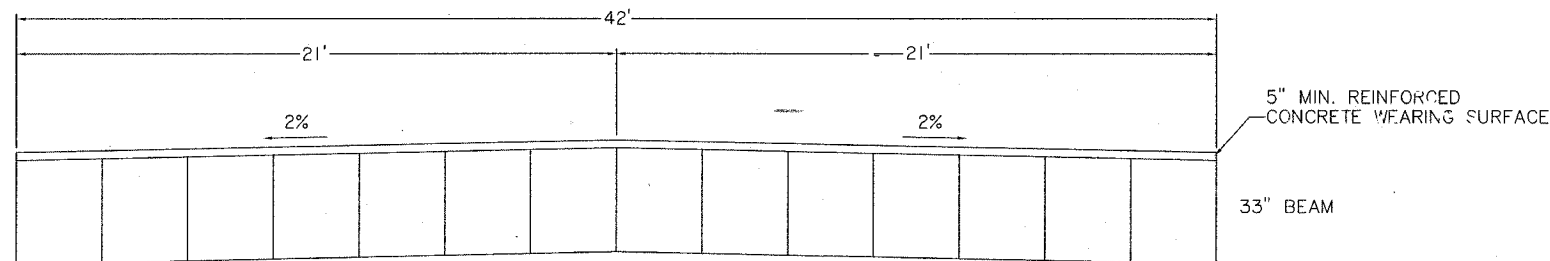


EXISTING SECTION



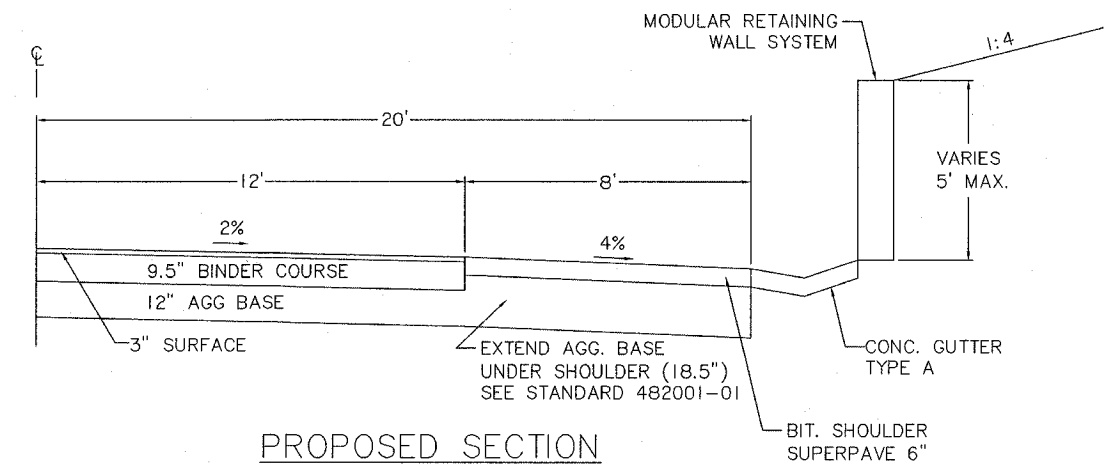
PROPOSED SECTION

STA. 12+50.00 TO STA. 29+43.42
 STA. 31+53.42 TO STA. 50+00



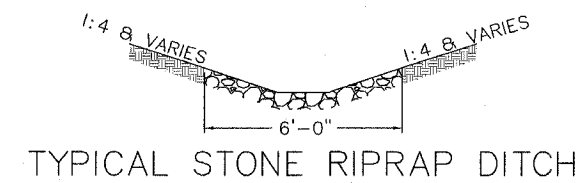
PROPOSED BRIDGE SECTION

STA. 29+43.42 TO STA. 31+53.42



PROPOSED SECTION

STA. 45+40.00 TO STA. 46+60.00



TYPICAL STONE RIPRAP DITCH

TYPICAL SECTIONS
 STA. 12+50 TO STA. 50+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

GENERAL NOTES:

- ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2007
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING 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 NATIONWIDE 404 PERMIT HAS BEEN OBTAINED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
- ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT TERM CLOSURES.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	3
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BRS-0389(104)	
CONTRACT NO. 89323				

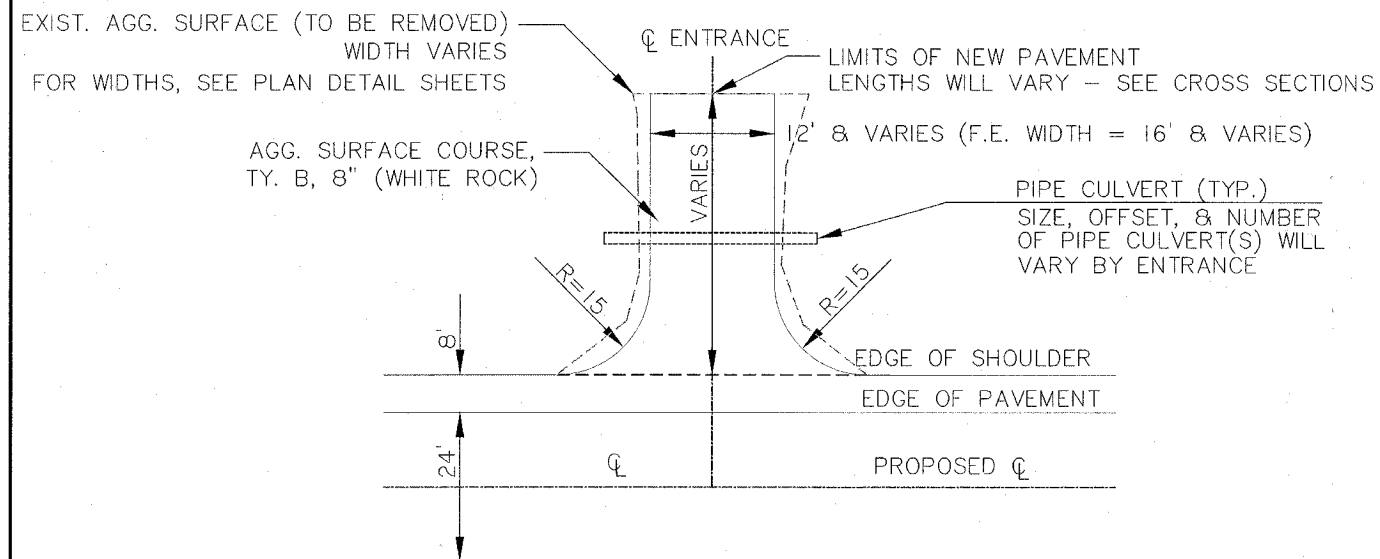
BITUMINOUS MIXTURE REQUIREMENTS:

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

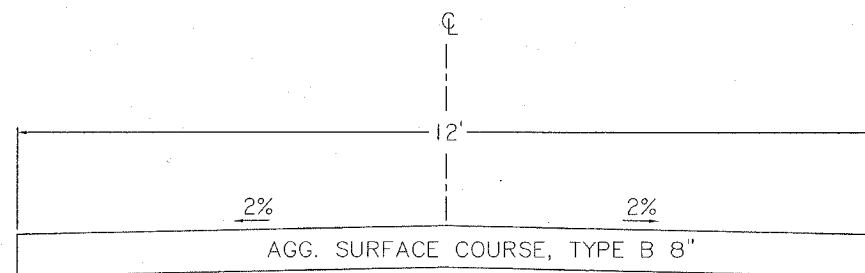
LOCATION(S):	STA. 46+68.78
MIXTURE USE(S):	PRIVATE DRIVEWAY
PG	PG64-22
RAP %: (MAX) **	15%
DESIGN AIR VOIDS:	4.0% @ Ndes = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-12.5 OR IL-9.5
FRICTION AGGREGATE:	MIXTURE D

** IF >15% RAP IS USED, THE CONTRACTOR MAY BE REQUIRED TO USE A SOFTER GRADE OF ASPHALT AS DETERMINED BY THE MATERIALS ENGINEER.

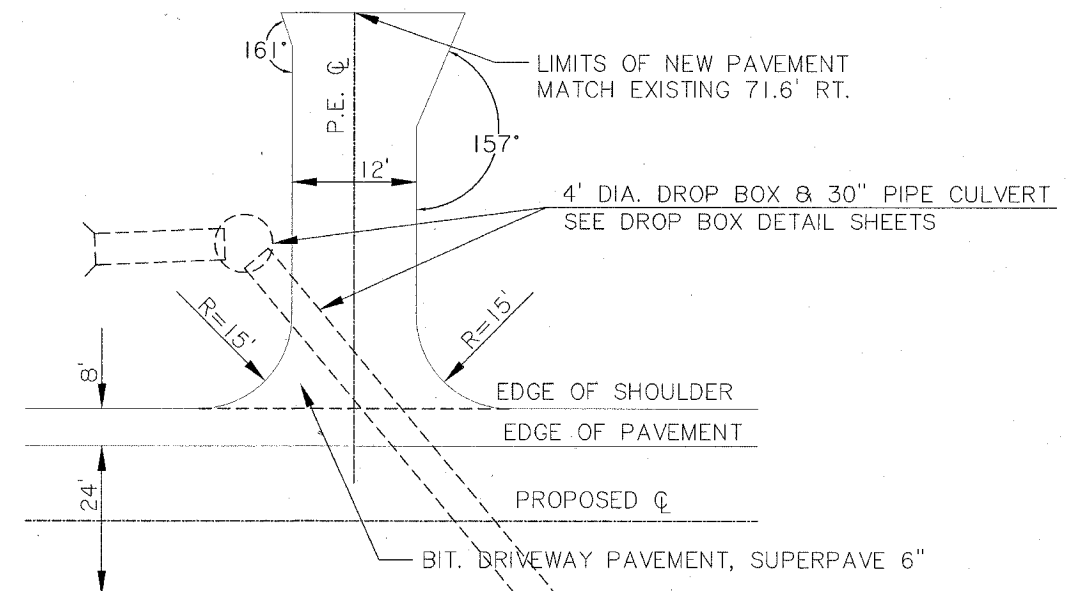
TYPICAL FIELD OR PRIVATE ENTRANCE
(SEE PLAN DETAIL SHEETS FOR FURTHER DETAIL)



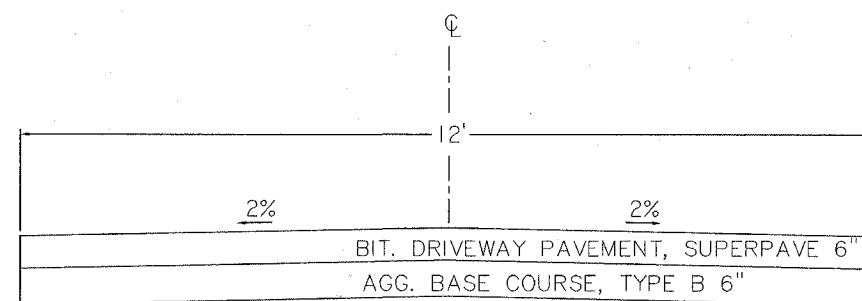
TYPICAL FIELD OR PRIVATE ENTRANCE
CROSS - SECTION VIEW



PRIVATE ENTRANCE
STA. 46+68.78 RIGHT
(SEE PLAN DETAIL SHEETS FOR FURTHER DETAIL)



PRIVATE ENTRANCE
STA. 46+68.78 RIGHT
CROSS - SECTION VIEW



PROP. DRIVEWAY TYP. SECTIONS
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	4
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

SUMMARY OF QUANTITIES

CODE	ITEM	UNIT	QUANT.
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	288
20100500	TREE REMOVAL, ACRES	ACRE	8.76
20200100	EARTH EXCAVATION	CU.YD.	96430.75
20400800	FURNISHED EXCAVATION	CU.YD.	50768.82
20800150	TRENCH BACKFILL	CU.YD.	48
Δ 25000200	SEEDING, CLASS 2	ACRE	6.79
Δ 25000300	SEEDING, CLASS 3	ACRE	7.96
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1327.5
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1327.5
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1327.5
Δ 25100115	MULCH, METHOD 2	ACRE	13.58
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ.YD.	38,526.6
Δ 25301800	SEEDLINGS	UNIT	8.76
Δ 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1681.5
28000300	TEMPORARY DITCH CHECKS	EACH	197
28000400	PERIMETER EROSION BARRIER	FOOT	829
28100107	STONE RIPRAP, CLASS A4	SQ.YD.	5433
28200200	FILTER FABRIC	SQ.YD.	5433
28500100	FABRIC FORMED CONCRETE REVETMENT MATS	SQ.YD.	4404
35101400	AGGREGATE BASE COURSE, TYPE B	TON	6672
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1070
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2869
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	5158
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1587
44000100	PAVEMENT REMOVAL	SQ.YD.	8237
44004000	PAVED DITCH REMOVAL	FOOT	4005
48101200	AGGREGATE SHOULDERS, TYPE B	TON	2136
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ.YD.	107
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
*50105200	REMOVE EXISTING CULVERTS	EACH	13
50200100	STRUCTURE EXCAVATION	CU.YD.	424
50200400	ROCK EXCAVATION FOR STRUCTURES	CU.YD.	26.4
50300225	CONCRETE STRUCTURES	CU.YD.	307.9
50300260	BRIDGE DECK GROOVING	SQ.YD.	932
50300280	CONCRETE ENCASEMENT	CU.YD.	4.9
50300300	PROTECTIVE COAT	SQ.YD.	980
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ.FT.	8725.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	62020
50901050	STEEL RAILING, TYPE SM	FOOT	420
51201600	FURNISHING STEEL PILES HP 12X53	FOOT	456
51202305	DRIVING PILES	FOOT	456
51203600	TEST PILE STEEL HP 12X53	EACH	2
51204650	PILE SHOES	EACH	14
51500100	NAME PLATES	EACH	1
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4
54213873	STEEL END SECTIONS 18"	EACH	20
54213879	STEEL END SECTIONS 24"	EACH	10
54213903	STEEL END SECTIONS 48"	EACH	4
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	48
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	389
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	312
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	40

* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS + Y080

CODE	ITEM	UNIT	QUANT.
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	40
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	152
542D2749	PIPE CULVERTS, CLASS D, TYPE 4 24"	FOOT	120
542D2773	PIPE CULVERTS, CLASS D, TYPE 4 48"	FOOT	256
Δ 56100500	WATER MAIN 4"	FOOT	30
Δ 56100700	WATER MAIN 8"	FOOT	3,222
Δ *56103100	DUCTILE IRON WATER MAIN 8"	FOOT	80
Δ *56108710	TAPPING VALVES AND SLEEVES 4"	EACH	2
Δ *56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1
Δ *56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3
587C0300	CONCRETE SEALER	SQ.FT.	2174
*60226400	MANHOLES, DROP TYPE, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5
60602500	CONCRETE GUTTER, TYPE A	FOOT	120
Δ 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63700115	CONCRETE BARRIER, DOUBLE FACE	FOOT	22
*66502405	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	215
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	32
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	18
*67100100	MOBILIZATION	L. SUM	1
*70101700	TRAFFIC CONTROL AND PROTECTION	L. SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18
72000100	SIGN PANEL - TYPE 1	SQ.FT.	28.75
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	26
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2
72900100	METAL POST - TYPE A	FOOT	33
72900200	METAL POST - TYPE B	FOOT	48.5
Δ 78001110	PAINT PAVEMENT MARKING, LINE 4"	FOOT	15,000
Δ 78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTORS	EACH	8
Δ A2001020	TREE, ACER RUBRUM (RED MAPLE), 2 1/2" CALIPER, BALLED AND BURLAPPED	EACH	6
Δ A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2 1/2" CALIPER, BALLED AND BURLAPPED	EACH	6
Δ A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2 1/2" CALIPER, BALLED AND BURLAPPED	EACH	6
Δ *LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4
*X0320167	HANDRAIL	FOOT	120
*X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
*X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1
*X5030305	CONCRETE WEARING SURFACE, 5"	SQ.YD.	970.0
Δ *XX000679	CUT AND CAP EXISTING WATER MAIN	EACH	2
*XX001490	GATE VALVES, 8"	EACH	3
Δ *XX002907	WATER SERVICE CONNECTION (SHORT)	EACH	3
Δ *XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	1247
*XX004357	FIELD ENTRANCE REMOVAL	L. SUM	4
XX005089	BITUMINOUS DRIVEWAY PAVEMENT 6"	SQ.YD.	119.4
*XX005314	BITUMINOUS DRIVEWAY REMOVAL	SQ.YD.	119.4
*XX006188	REMOVE & RE-ERECT SEGMENTAL BLOCK RETAINING WALL	SQ.FT.	75
*XZ188000	RETAINING WALL REMOVAL	L. SUM	1
*Z0013798	CONSTRUCTION LAYOUT	L. SUM	1
*Z0034730	MODULAR RETAINING WALL SYSTEM	SQ.FT.	862
+ *Z0076600	TRAINEES	HOUR	500
Δ *XX006954	METER SET COMPLETE	EACH	3
Δ *XX006814	WATER SERVICE CONNECTION LONG	EACH	6

* SEE SPECIAL PROVISIONS

QUANTITIES NOT OTHERWISE SHOWN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	6
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

SURFACE COURSE (3" THICK)

LOCATION	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 * (TON)
STA. 12+50.00 TO STA. 29+43.19	1693.19	24	4516	759
BRIDGE OMISSION STR. NO. 072-3145				
STA. 31+53.19 TO STA. 50+00.00	1846.81	24	4925	828
TOTAL	3540		9441	1587

* APPLICATION RATE = 112 LB/SQ.YD./IN

BITUMINOUS MATERIALS (PRIME COAT)

ROADWAY - 4 APPLICATIONS

LOCATION	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)	BITUMINOUS MATERIALS (PRIME COAT) * (GALLON)
STA. 12+50.00 TO STA. 29+43.19	1693.19	24	4516	1355
BRIDGE OMISSION STR. NO. 072-3145				
STA. 31+53.19 TO STA. 50+00.00	1846.81	24	4925	1478
SUM	3540		9441	2833

DRIVEWAY - 4 APPLICATIONS

LOCATION	LT/RT	AREA (SQ. YD.)	BITUMINOUS MATERIALS (PRIME COAT) * (GALLON)	SUMS	BITUMINOUS MATERIALS (PRIME COAT) * (GALLON)
STA. 46+68.78	RT	119.4	36	ROADWAY	2833
				DRIVEWAY	36
SUM		119.4	36	TOTAL	2869

* APPLICATION RATE = 0.075 GALLONS/SQ. YD./APPLICATION

BINDER COURSE (9.5" THICK)

LOCATION	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 * (TON)
STA. 12+50.00 TO STA. 29+43.19	1693.19	24	4516	2467
BRIDGE OMISSION STR. NO. 072-3145				
STA. 31+53.19 TO STA. 50+00.00	1846.81	24	4925	2691
TOTAL	3540		9441	5158

* APPLICATION RATE = 115 LB/SQ.YD./IN

AGGREGATE BASE COURSE (12" THICK)

ROADWAY - 12" BASE

LOCATION	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ. YD.)	AGG. BASE COURSE, TYPE B * (TON)
STA. 12+50.00 TO STA. 29+43.19	1693.19	24	4516	3117
BRIDGE OMISSION STR. NO. 072-3145				
STA. 31+53.19 TO STA. 50+00.00	1846.81	24	4925	3399
TOTAL	3540		9441	6516

SHOULDER - 18.5" BASE

LOCATION	LT/RT	AREA (SQ. YD.)	AGG. BASE COURSE, TYPE B * (TON)
STA. 45+40.00 TO STA. 46+60.00	RT	106.7	114
SUM		106.7	114

DRIVEWAY - 6" BASE

LOCATION	LT/RT	AREA (SQ. YD.)	AGG. BASE COURSE, TYPE B * (TON)	SUMS	AGG. BASE COURSE, TYPE B * (TON)
STA. 46+68.78	RT	119.4	42	ROADWAY	6516
				DRIVEWAY	42
				SHOULDER	114
SUM		119.4	42	TOTAL	6672

* APPLICATION RATE = 115 LB/SQ.YD./IN

AGGREGATE DRIVEWAY SURFACE (8" THICK)

LOCATION	LT/RT	AREA (SQ. YD.)	AGG. SURFACE COURSE, TYPE B * (TON)
STA. 12+98.00	LT	76.5	36
STA. 13+31.62	RT	105.7	49
STA. 13+44.48	LT	67.9	32
STA. 14+48.69	LT	80.2	37
STA. 16+00.00	LT	58.4	27
STA. 17+30.82	RT	91.5	43
STA. 18+23.81	LT	100.2	47
STA. 19+05.14	RT	91.5	43
STA. 20+53.87	RT	164.0	76
STA. 26+29.46	RT	328.4	152
STA. 28+00.00	RT	157.9	73
STA. 34+60.58	RT	275.0	127
STA. 36+37.00	RT	216.9	100
STA. 36+37.00	LT	280.1	129
STA. 46+45.88	LT	119.0	55
STA. 49+20.39	LT	93.0	44
TOTAL		2306.2	1070

* APPLICATION RATE = 115 LB/SQ.YD./IN

PERIMETER EROSION BARRIER

TOTALS	LENGTH (FT.)	PERIMETER EROSION BARRIER (FT.)
TOTAL (STA. 12+50 TO STA. 25+00)	515	515
TOTAL (STA. 25+00 TO STA. 38+00)	201	201
TOTAL (STA. 38+00 TO STA. 50+00)	113	113
GRAND TOTAL	829	829

NOTE: SEE EROSION CONTROL PLAN SHEETS FOR FURTHER DETAIL

CONCRETE BARRIER

LOCATION (EXISTING STATIONING)	LENGTH (FT.)	CONCRETE BARRIER, DOUBLE FACE (FT.)
STA. 30+15.00	22	22
TOTAL	22	22

REMOVE EXISTING CULVERTS

LOCATION	LT/RT	OFFSET	EACH
STA. 14+48.69	LT	19.25	1
STA. 16+00.00	LT	27.87	1
STA. 18+23.81	LT	14.17	1
STA. 19+51.14	RT	52.21	1
STA. 20+53.87	RT	68.79	1
STA. 26+29.46	RT	127.26	1
STA. 34+60.58	RT	119.66	1
STA. 36+37.00	RT	111.35	1
STA. 36+48.04	RT	33.07	1
STA. 36+49.09	RT	77.40	1
STA. 36+67.81	RT	111.98	1
STA. 47+75.59	ACROSS ROAD		1
STA. 49+20.39	LT	25.52	1
TOTAL			13

SEEDING & RELATED ITEMS SUMMARY

	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 3 (ACRE)	TEMP. SEEDING (POUND)*	MULCH METHOD 2 (ACRE)**	NITROGEN FERTILIZER NUTRIENT (POUND)***	PHOSPHORUS FERT. NUTRIENT (POUND)***	POTASSIUM FERT. NUTRIENT (POUND)***	EROSION CONTROL BLANKET (HEAVY DUTY) (SQ. YD.)
TOTAL (STA. 12+50 TO STA. 25+00)	1.48	1.72	364.80	2.96	288	288	288	8324.8
TOTAL (STA. 25+00 TO STA. 38+00)	2.12	4.89	799.14	4.24	630.9	630.9	630.9	23667.6
TOTAL (STA. 38+00 TO STA. 50+00)	3.19	1.35	517.56	6.38	408.6	408.6	408.6	6534
GRAND TOTAL	6.79	7.96	1681.50	13.58	1327.5	1327.5	1327.5	38526.4

NOTE: SEE EROSION CONTROL PLAN SHEETS FOR FURTHER DETAIL

* TEMPORARY EROSION CONTROL SEEDING APPLICATION RATE = 114 LB PER ACRE

** HALF OF MULCH QUANTITY IS RESERVED FOR TEMPORARY SEEDING

*** NUTRIENT APPLICATION RATE = 90 LB PER ACRE

EAST LANDSCAPING WALL

LOCATION	LT/RT	REMOVE & RE-ERECT SEGMENTAL BLOCK RETAINING WALL* (SQ. FT.)	RETAINING WALL REMOVAL* (L SUM)
STA. 46+02.81 TO STA. 46+56.02	RT		1
STA. 46+81.98 TO STA. 47+00.00	RT	75	
TOTAL		75	1

* SEE SPECIAL PROVISIONS

EAST WALL DRAINAGE

LOCATION	LT/RT	LENGTH (FT.)	WIDTH (FT.)	BIT. SHOULDERS SUPERPAVE 6" (SQ. YD.)	CONCRETE GUTTER, TYPE A (FT.)
STA. 45+40.00 TO STA. 46+60.00	RT	120	8	107	120
TOTAL				107	120

AGGREGATE SHOULDERS (6" THICK)

LOCATION	LENGTH (FT.)	WIDTH (FT.)		AREA (SQ. YD.)	AGG. SHOULDERS, TYPE B * (TON)
		LT	RT		
STA. 12+50.00 TO STA. 29+43.19	1693.19	8	8	3011	1039
BRIDGE OMISSION STR. NO. 072-3145					
STA. 31+53.19 TO STA. 45+40.00	1386.81	8	8	2466	851
STA. 45+40.00 TO STA. 46+60.00	120	8	0	107	37
STA. 46+60.00 TO STA. 50+00.00	340	8	8	605	209
TOTAL	3540			6189	2136

* APPLICATION RATE = 115 LB/SQ.YD./IN

PER - STA. 46+68.78

LOCATION	LT/RT	AREA (SQ. YD.)	BIT. DRIVEWAY REMOVAL (SQ. YD.)	BIT. DRIVEWAY PVMNT. 6" * (SQ. YD.)
STA. 46+68.78	RT	119.4	119.4	119.4
TOTAL		119.4	119.4	119.4

* NOTES:

APPLICATION RATE = 112 LB/SQ.YD./IN
PRIVATE ENT. WILL BE 6" BIT. SURFACE OVER 6" AGG. BASE
SEE ALSO QUANT. FOR AGG. BASE & BIT. PRIME COAT

GUARDRAIL & RELATED ITEMS SUMMARY

LOCATION	LT / RT	TRAFFIC BARRIER TERM. TYPE 1 (EACH)	STEEL PLATE BEAM GUARD RAIL - TY B (FOOT)	TRAFFIC BARRIER TERM. TYPE 5A (EACH)
STA. 28+92.74 TO STA. 29+17.44	LT	1		
	RT	1		
STA. 29+17.44 TO STA. 29+29.94	LT		12.5	
	RT		12.5	
STA. 29+29.94 TO STA. 29+43.19	LT			1
	RT			1
BRIDGE OMISSION STR. NO. 072-3145 - SEE NOTES				
STA. 31+53.19 TO STA. 31+66.44	LT			1
	RT			1
STA. 31+66.44 TO STA. 31+78.94	LT		12.5	
	RT		12.5	
STA. 31+78.94 TO STA. 32+03.67	LT	1		
	RT	1		
TOTAL		4	50	4

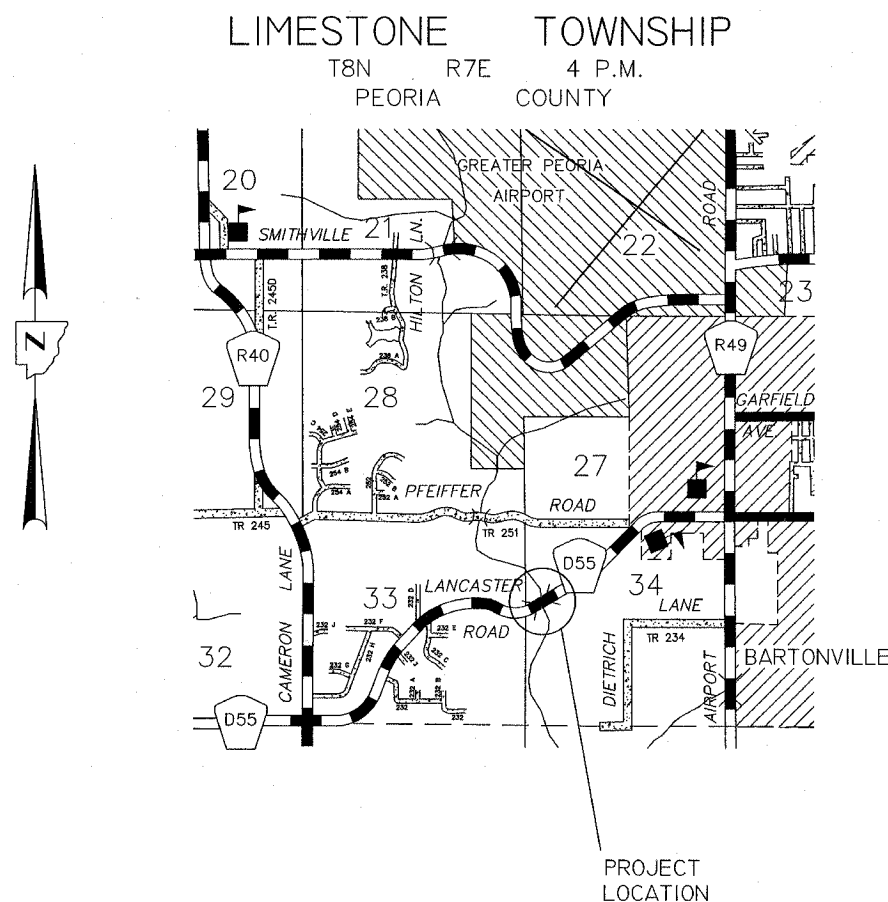
NOTES:

1. SEE BRIDGE PLANS FOR BRIDGE RAIL AND MONODIRECTIONAL REFLECTORS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	8
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

LOCATION MAP

FAS 389 (CH D55) MAJOR COLLECTOR
LANCASTER ROAD 93-00049-00-BR



DESCRIPTION OF DETOUR

TRAVELING EAST ON LANCASTER ROAD:

AT THE INTERSECTION OF CAMERON LANE & LANCASTER ROAD, MOTORISTS WILL BE DETOURED NORTH ON CAMERON LANE APPROXIMATELY 2 MILES. THE DETOUR WILL THEN PROCEED EAST ON SMITHVILLE ROAD ROUGHLY 2 1/2 MILES UNTIL IT INTERSECTS WITH AIRPORT ROAD, AT WHICH, THE DETOUR WILL PROCEED SOUTH 1 MILE. THE DETOUR ENDS AT THE INTERSECTION OF AIRPORT ROAD AND LANCASTER ROAD.

TRAVELING WEST ON LANCASTER ROAD:

AT THE INTERSECTION OF AIRPORT ROAD & LANCASTER ROAD, MOTORISTS WILL BE DETOURED NORTH 1 MILE ON AIRPORT ROAD. THE DETOUR WILL THEN PROCEED ROUGHLY 2 1/2 MILES WEST ON SMITHVILLE ROAD UNTIL IT INTERSECTS WITH CAMERON LANE AT WHICH THE DETOUR WILL PROCEED SOUTH. THE DETOUR ENDS AT THE INTERSECTION OF CAMERON LANE AND LANCASTER ROAD.

ACCESS TO PFEIFFER ROAD FROM LANCASTER WILL REMAIN THROUGHOUT THE LENGTH OF THE ENTIRE PROJECT.

TOTAL LENGTH OF DETOUR = APPROX. 5 1/2 MILES

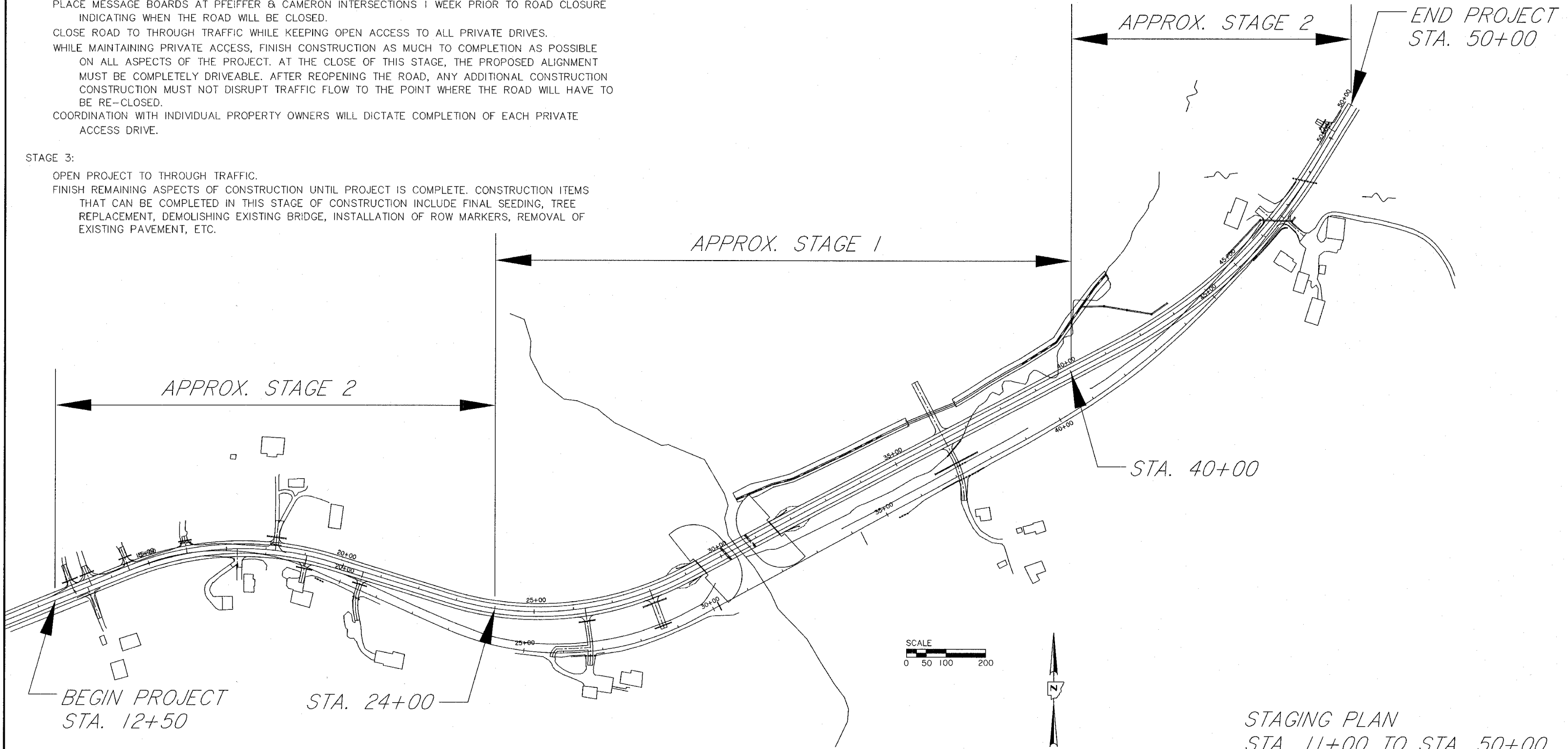
DETOUR
LANCASTER ROAD
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	9
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BRS-0389(104)	
CONTRACT NO. 89323				

STAGE 1:
 PLACE ALL APPROPRIATE TRAFFIC CONTROL & PROTECTION MEASURES AT ALL REQUIRED LOCATIONS PERTAINING TO CONSTRUCTION SITE.
 PLACE SIGNS: "TRUCKS ENTERING/LEAVING HIGHWAY" NEAR BRIDGE SITE.
 CONSTRUCT BRIDGE & IMMEDIATE APPROACH ROADWAY FROM APPROX. STA. 24+00 TO APPROX. STA. 40+00.
 RELOCATE WATER LINE & VACATE EXISTING LINE
 CONSTRUCT ALL OTHER ASPECTS OF THE PROJECT AS MUCH TO COMPLETION AS POSSIBLE WITHOUT HAVING TO CLOSE THE ROAD TO THROUGH TRAFFIC, I.E. TREE REMOVAL, GUARDRAIL, PAVED DITCH REMOVAL, EMBANKMENT, TEMPORARY SEEDING, ETC.

STAGE 2:
 PLACE MESSAGE BOARDS AT PFEIFFER & CAMERON INTERSECTIONS 1 WEEK PRIOR TO ROAD CLOSURE INDICATING WHEN THE ROAD WILL BE CLOSED.
 CLOSE ROAD TO THROUGH TRAFFIC WHILE KEEPING OPEN ACCESS TO ALL PRIVATE DRIVES.
 WHILE MAINTAINING PRIVATE ACCESS, FINISH CONSTRUCTION AS MUCH TO COMPLETION AS POSSIBLE ON ALL ASPECTS OF THE PROJECT. AT THE CLOSE OF THIS STAGE, THE PROPOSED ALIGNMENT MUST BE COMPLETELY DRIVEABLE. AFTER REOPENING THE ROAD, ANY ADDITIONAL CONSTRUCTION CONSTRUCTION MUST NOT DISRUPT TRAFFIC FLOW TO THE POINT WHERE THE ROAD WILL HAVE TO BE RE-CLOSED.
 COORDINATION WITH INDIVIDUAL PROPERTY OWNERS WILL DICTATE COMPLETION OF EACH PRIVATE ACCESS DRIVE.

STAGE 3:
 OPEN PROJECT TO THROUGH TRAFFIC.
 FINISH REMAINING ASPECTS OF CONSTRUCTION UNTIL PROJECT IS COMPLETE. CONSTRUCTION ITEMS THAT CAN BE COMPLETED IN THIS STAGE OF CONSTRUCTION INCLUDE FINAL SEEDING, TREE REPLACEMENT, DEMOLISHING EXISTING BRIDGE, INSTALLATION OF ROW MARKERS, REMOVAL OF EXISTING PAVEMENT, ETC.



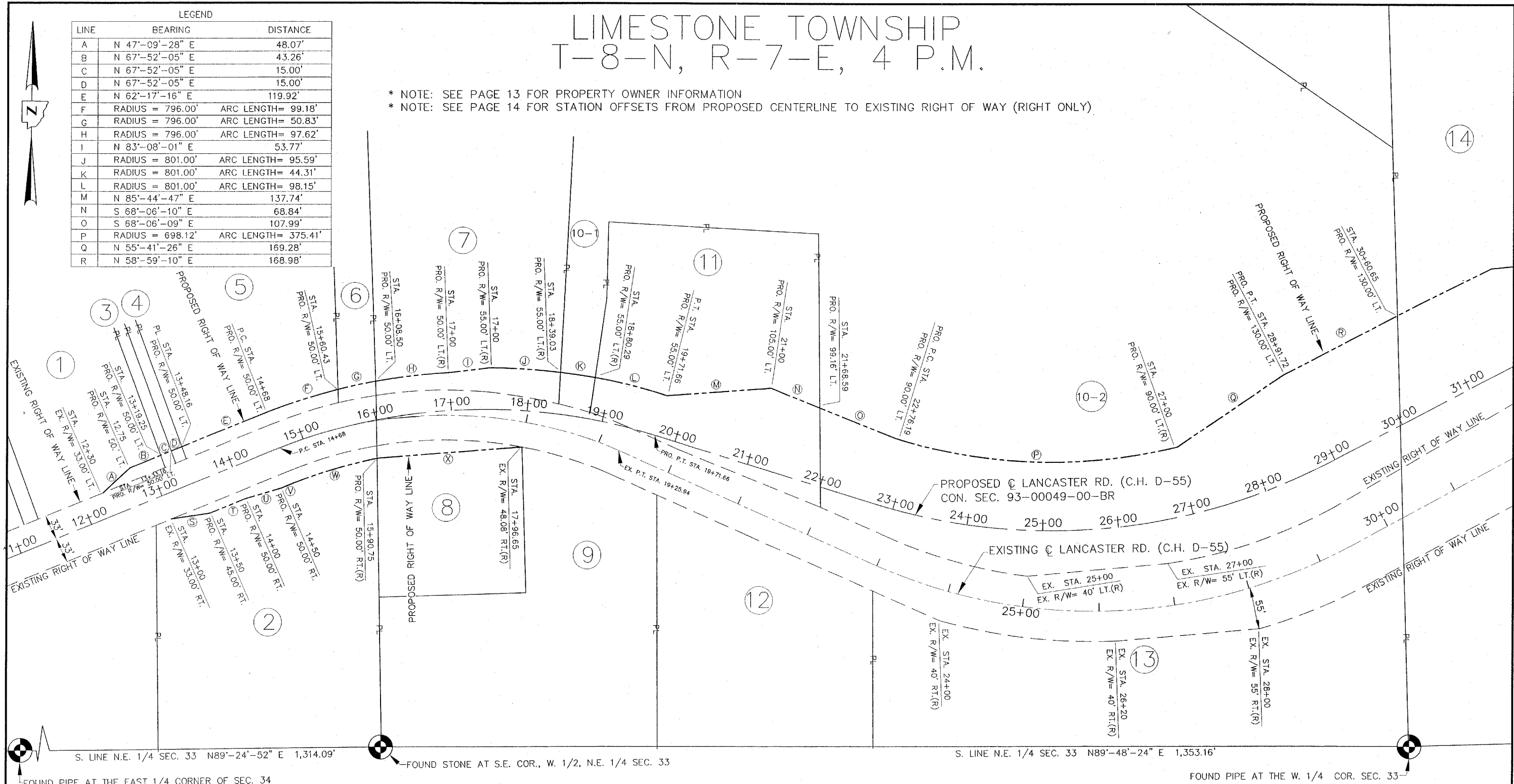
STAGING PLAN
 STA. 11+00 TO STA. 50+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

LIMESTONE TOWNSHIP T-8-N, R-7-E, 4 P.M.

LEGEND

LINE	BEARING	DISTANCE
A	N 47°-09'-28" E	48.07'
B	N 67°-52'-05" E	43.26'
C	N 67°-52'-05" E	15.00'
D	N 67°-52'-05" E	15.00'
E	N 62°-17'-16" E	119.92'
F	RADIUS = 796.00' ARC LENGTH= 99.18'	
G	RADIUS = 796.00' ARC LENGTH= 50.83'	
H	RADIUS = 796.00' ARC LENGTH= 97.62'	
I	N 83°-08'-01" E	53.77'
J	RADIUS = 801.00' ARC LENGTH= 95.59'	
K	RADIUS = 801.00' ARC LENGTH= 44.31'	
L	RADIUS = 801.00' ARC LENGTH= 98.15'	
M	N 85°-44'-47" E	137.74'
N	S 68°-06'-10" E	68.84'
O	S 68°-06'-09" E	107.99'
P	RADIUS = 698.12' ARC LENGTH= 375.41'	
Q	N 55°-41'-26" E	169.28'
R	N 58°-59'-10" E	168.98'

* NOTE: SEE PAGE 13 FOR PROPERTY OWNER INFORMATION
 * NOTE: SEE PAGE 14 FOR STATION OFFSETS FROM PROPOSED CENTERLINE TO EXISTING RIGHT OF WAY (RIGHT ONLY)



LEGEND CONTINUED

LINE	BEARING	DISTANCE
S	N 81°-21'-26" E	51.44'
T	N 67°-52'-05" E	49.83'
U	N 73°-35'-55" E	50.08'
V	N 67°-52'-05" E	18.00'
W	RADIUS = 696.00' ARC LENGTH= 113.57'	
X	N 85°-30'-26" E	191.48'

SECTION 33, TOWNSHIP 8 NORTH, RANGE 7 EAST 4 TH PRINCIPAL MERIDIAN
 PEORIA COUNTY

RIGHT OF WAY STRIP MAP

* NOTE STATION EQUATION
 EX. STA. 269+78.10 BACK =
 EX. STA. 18+00 AHEAD

COUNTY HIGHWAY ROUTE D-55 CONSTRUCTION SECTION 93-00049-00-BR

FEBRUARY 20 07

SECTION 93-00049-00-BR LANCASTER ROAD



LIMESTONE TOWNSHIP T-8-N, R-7-E, 4 P.M.

LEGEND

LINE	BEARING	DISTANCE
A	N 62°-17'-16" E	139.46'
B	N 84°-05'-44" E	53.84'
C	N 62°-17'-16" E	300.00'
D	N 73°-35'-58" E	50.98'
E	N 62°-17'-16" E	350.00'
F	N 28°-34'-59" E	180.21'
G	N 61°-47'-26" E	91.74'
H	S 47°-26'-33" E	161.31'
I	RADIUS = 1,207.42' ARC LENGTH = 222.96'	



P.I.N. 17-34-100-005

14

S.E. 1/4, N.E. 1/4 SEC. 33

P.I.N. 17-33-276-003

P.I.N. 17-34-100-006

EQUATION STA. 44+00 BACK =
STA. 300+78.06 AHEAD
P.I.N. 17-34-100-012

CURVE #3 INFORMATION
 P.C. STA. 41+48.57
 P.T. STA. 48+15.45
 P.I. STA. 44+90.12
 D_a 04°-34'-29"
 D_c 04°-34'-34"
 T = 341.55'
 R = 1252.42'
 L = 666.88'
 M_{PC} = 659.03'
 M = 44.12'

- * NOTE SEE PAGE 13 FOR PROPERTY OWNER INFORMATION
- * NOTE SEE PAGE 14 FOR STATION OFFSETS FROM PROPOSED CENTERLINE TO EXISTING RIGHT OF WAY (RIGHT ONLY)

* NOTE STATION EQUATION
 EX. STA. 269+78.10 BACK =
 EX. STA. 18+00 AHEAD

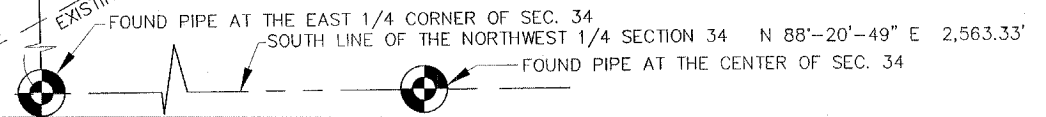
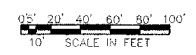
SECTION 34 , TOWNSHIP 8 NORTH , RANGE 7 EAST 4 TH PRINCIPAL MERIDIAN
 PEORIA COUNTY

RIGHT OF WAY STRIP MAP

COUNTY HIGHWAY _____ ROUTE D-55 CONSTRUCTION SECTION 93-00049-00-BR

JANUARY 20 07

SECTION 93-00049-00-BR LANCASTER ROAD



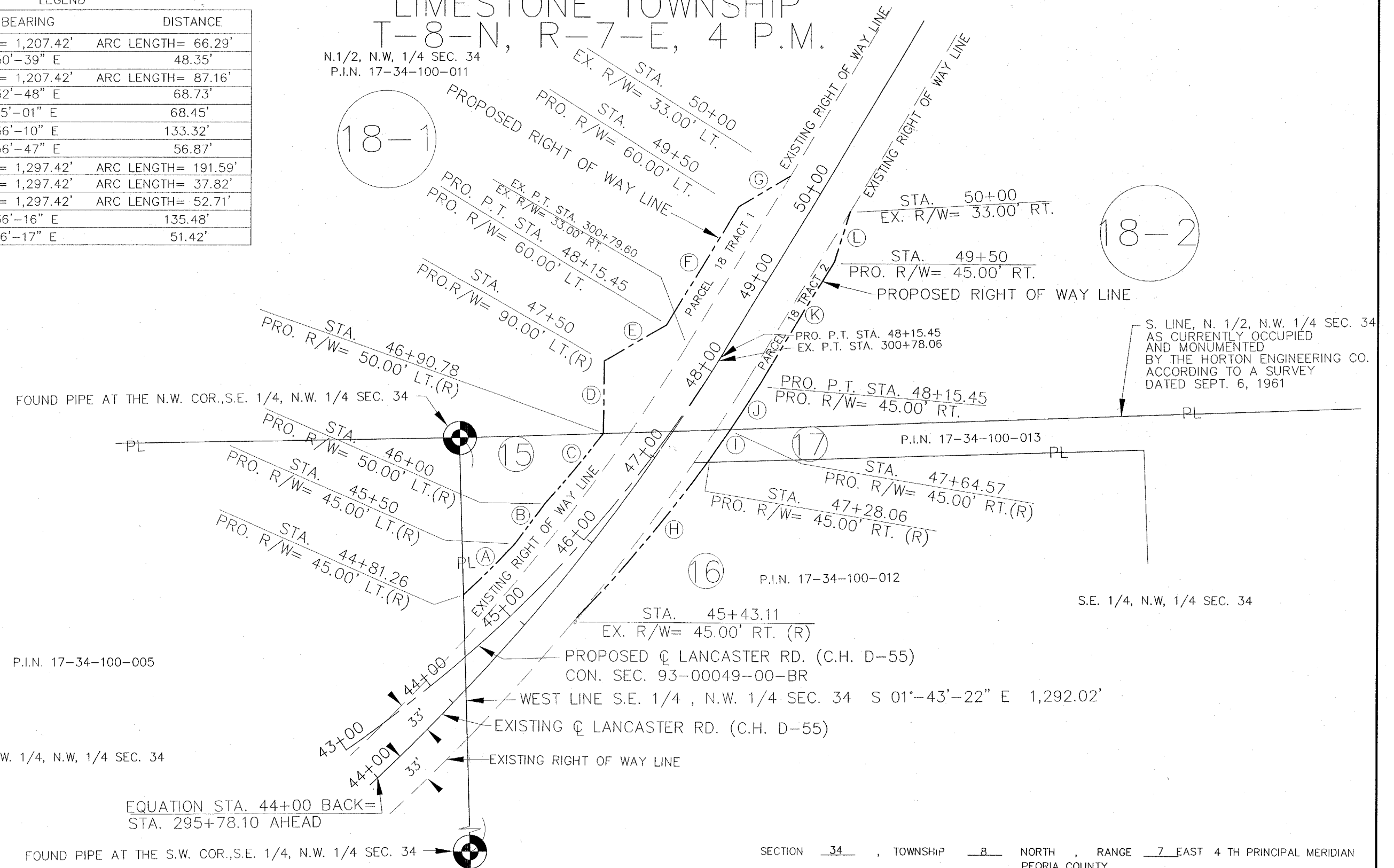
LEGEND

LINE	BEARING	DISTANCE
A	RADIUS = 1,207.42'	ARC LENGTH= 66.29'
B	N 36°-50'-39" E	48.35'
C	RADIUS = 1,207.42'	ARC LENGTH= 87.16'
D	N 00°-32'-48" E	68.73'
E	N 59°-15'-01" E	68.45'
F	N 30°-36'-10" E	133.32'
G	N 58°-56'-47" E	56.87'
H	RADIUS = 1,297.42'	ARC LENGTH= 191.59'
I	RADIUS = 1,297.42'	ARC LENGTH= 37.82'
J	RADIUS = 1,297.42'	ARC LENGTH= 52.71'
K	N 30°-36'-16" E	135.48'
L	N 17°-06'-17" E	51.42'



LIMESTONE TOWNSHIP T-8-N, R-7-E, 4 P.M.

N.1/2, N.W. 1/4 SEC. 34
P.I.N. 17-34-100-011



P.I.N. 17-34-100-005

S.W. 1/4, N.W. 1/4 SEC. 34

EQUATION STA. 44+00 BACK=
STA. 295+78.10 AHEAD

FOUND PIPE AT THE S.W. COR., S.E. 1/4, N.W. 1/4 SEC. 34

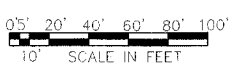
SECTION 34 , TOWNSHIP 8 NORTH , RANGE 7 EAST 4 TH PRINCIPAL MERIDIAN
PEORIA COUNTY

RIGHT OF WAY STRIP MAP

COUNTY HIGHWAY _____ ROUTE D-55 CONSTRUCTION SECTION 93-00049-00-BR

FEBRUARY 20 07

SECTION 93-00049-00-BR LANCASTER ROAD



* NOTE SEE PAGE 13 FOR PROPERTY OWNER INFORMATION
* NOTE SEE PAGE 14 FOR STATION OFFSETS FROM PROPOSED CENTERLINE TO EXISTING RIGHT OF WAY (RIGHT ONLY)

LIMESTONE TOWNSHIP T-8-N, R-7-E, 4 P.M.

PARCEL NUMBER	PROPERTY IDENTIFICATION NUMBER	PROPERTY OWNER	PARCEL ADDRESS	PROPOSED R.O.W. AREA	TEMPORARY EASEMENT AREA
1	17-33-251-005	MATTHEW J. BRAGG	7021 W. LANCASTER RD.	0.026 AC.	0.062 AC.
2	17-33-252-003	BEN A. JOHNSON	7014 W. LANCASTER RD.	0.089 AC.	0.388 AC.
3	17-33-251-008	HOLLIS C. & HARRY D. BRIGGSS	7011 W. LANCASTER RD.	0.006 AC.	0.010 AC.
4	17-33-251-013	LORDS / SCHILLINGER	7009 W. LANCASTER RD.	0.006 AC.	0.010 AC.
5	17-33-251-009	DEBRA & ANDREW WRIGHT	7003 W. LANCASTER RD.	0.084 AC.	0.154 AC.
6	17-33-251-012	MARY & FRED SEWELL	7001 W. LANCASTER RD.	0.021 AC.	0.035 AC.
7	17-33-276-001	MARY & RICHARD WRIGHT	6921 W. LANCASTER RD.	0.160 AC.	0.157 AC.
8	17-33-276-003	JULIE CRAMER	6920 W. LANCASTER RD.	0.058 AC.	0.044 AC.
9	17-33-277-007	BARBARA & GEORGE WIDENER	6912 W. LANCASTER RD.	NONE	0.086 AC.
10-1	17-33-276-003	MARY & RICHARD WRIGHT	6921 W. LANCASTER RD.	0.041 AC.	0.027 AC.
10-2	17-33-276-003	MARY & RICHARD WRIGHT	6921 W. LANCASTER RD.	2.830 AC.	0.464 AC.
11	17-33-276-004	LYNNE & CHRISTOPHER WRIGHT	6913 W. LANCASTER RD.	0.624 AC.	0.168 AC.
12	17-33-277-003	SCHOONOVER / MERRICK	6826 W. LANCASTER RD.	NONE	0.167 AC.
13	17-33-277-004	RILEY / NOVAKOW	6800 W. LANCASTER RD.	NONE	0.107 AC.
14	17-34-100-005	JAMES NOWAK	6610 W. LANCASTER RD.	5.132 AC.	(T.E.1) 1.345 AC. (T.E.2) 1.560
15	17-34-100-006	HELEN & WILLIAM MILLER	6425 W. LANCASTER RD.	0.125 AC.	0.044 AC.
16	17-34-100-012	MARSHALL & BRENDA GROTTTS	6416 W. LANCASTER RD.	0.025 AC.	0.390 AC.
17	17-34-100-013	SEAN BROWN	6404 W. LANCASTER RD.	0.009 AC.	0.039 AC.
18-1	17-34-100-011	MITCHELL CAMPEN	NONE	0.201 AC.	0.042 AC.
18-2	17-34-100-011	MITCHELL CAMPEN	NONE	0.053 AC.	0.237 AC.

SECTION 33 & 34 , TOWNSHIP 8 NORTH , RANGE 7 EAST 4 TH PRINCIPAL MERIDIAN
PEORIA COUNTY

RIGHT OF WAY STRIP MAP

COUNTY HIGHWAY ROUTE D-55 CONSTRUCTION SECTION 93-00049-00-BR

JANUARY 20 07

LIMESTONE TOWNSHIP T-8-N, R-7-E, 4 P.M.

STATION OFFSETS FROM PROPOSED CENTERLINE TO EXISTING RIGHT OF WAY (RIGHT ONLY)

PROPOSED STATION		OFFSET RT.		PROPOSED STATION		OFFSET RT.		PROPOSED STATION		OFFSET RT.	
18+00	—▶	48.15' RT.	RADIAL	27+41.46	—▶	168.10' RT.	RADIAL	36+21.73	—▶	132.81' RT.	
18+50	—▶	54.33' RT.	RADIAL	27+50	—▶	168.11' RT.	RADIAL	36+50	—▶	132.43' RT.	
19+00	—▶	61.07' RT.	RADIAL	28+00	—▶	167.62' RT.	RADIAL	37+00	—▶	131.75' RT.	
19+50	—▶	68.32' RT.	RADIAL	28+50	—▶	166.11' RT.	RADIAL	37+50	—▶	131.07' RT.	
20+00	—▶	66.46' RT.		28+66.51	—▶	165.41' RT.	RADIAL	38+00	—▶	130.40' RT.	
20+50	—▶	67.94' RT.		29+00	—▶	164.57' RT.		38+30.56	—▶	129.98' RT.	
21+00	—▶	86.04' RT.		29+50	—▶	163.90' RT.		38+50	—▶	129.63' RT.	
21+50	—▶	91.88' RT.		30+00	—▶	163.22' RT.		39+00	—▶	127.81' RT.	
22+00	—▶	97.58' RT.		30+50	—▶	162.54' RT.		39+50	—▶	124.70' RT.	
22+50	—▶	103.28' RT.		31+00	—▶	161.87' RT.		40+00	—▶	120.29' RT.	
23+00	—▶	109.77' RT.	RADIAL	31+50	—▶	161.19' RT.		40+50	—▶	144.57' RT.	
23+50	—▶	119.93' RT.	RADIAL	32+00	—▶	160.52' RT.		41+00	—▶	107.54' RT.	
23+84.88	—▶	129.35' RT.	RADIAL	32+22.06	—▶	160.22' RT.		41+50	—▶	99.17' RT.	RADIAL
24+00	—▶	131.24' RT.	RADIAL	32+50	—▶	158.31' RT.		42+00	—▶	89.81' RT.	RADIAL
24+50	—▶	136.95' RT.	RADIAL	33+00	—▶	154.88' RT.		42+50	—▶	81.20' RT.	RADIAL
25+00	—▶	141.85' RT.	RADIAL	33+50	—▶	151.45' RT.		43+00	—▶	73.30' RT.	RADIAL
25+50	—▶	145.89' RT.	RADIAL	34+00	—▶	148.06' RT.		43+50	—▶	66.57' RT.	RADIAL
25+82.94	—▶	148.08' RT.	RADIAL	34+50	—▶	144.59' RT.		44+00	—▶	59.64' RT.	RADIAL
26+00	—▶	148.37' RT.	RADIAL	35+00	—▶	141.16' RT.		44+50	—▶	53.87' RT.	RADIAL
26+50	—▶	151.79' RT.	RADIAL	35+50	—▶	137.73' RT.		45+00	—▶	48.80' RT.	RADIAL
27+00	—▶	159.05' RT.	RADIAL	36+00	—▶	134.31' RT.					

SECTION 33 & 34 , TOWNSHIP 8 NORTH , RANGE 7 EAST 4 TH PRINCIPAL MERIDIAN
PEORIA COUNTY

RIGHT OF WAY STRIP MAP

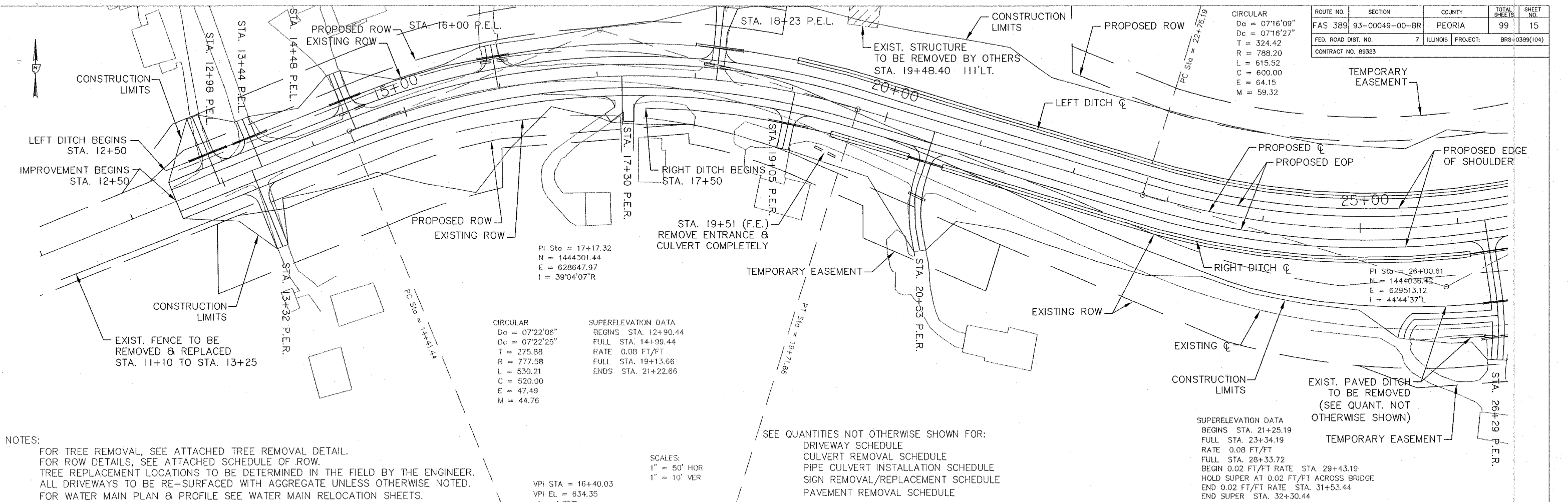
COUNTY HIGHWAY _____ ROUTE D-55 CONSTRUCTION SECTION 93-00049-00-BR

JANUARY 20 07

SECTION 93-00049-00-BR LANCASTER ROAD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	15
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0399(104)
CONTRACT NO. 69323				

CIRCULAR
 D_a = 07'16"09"
 D_c = 07'16"27"
 T = 324.42
 R = 788.20
 L = 615.52
 C = 600.00
 E = 64.15
 M = 59.32



PI Sta = 17+17.32
 N = 1444301.44
 E = 628647.97
 I = 39°04'07"R

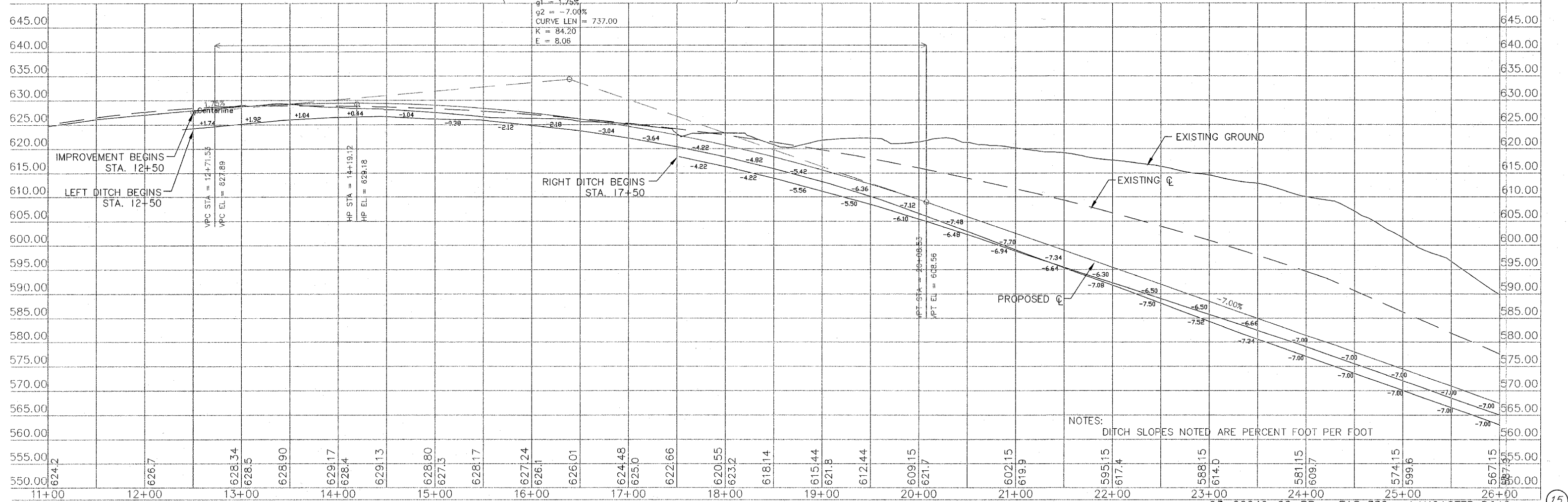
CIRCULAR
 D_a = 07'22'06"
 D_c = 07'22'25"
 T = 275.88
 R = 777.58
 L = 530.21
 C = 520.00
 E = 47.49
 M = 44.76

SUPERELEVATION DATA
 BEGINS STA. 12+90.44
 FULL STA. 14+99.44
 RATE 0.08 FT/FT
 FULL STA. 19+13.66
 ENDS STA. 21+22.66

NOTES:
 FOR TREE REMOVAL, SEE ATTACHED TREE REMOVAL DETAIL.
 FOR ROW DETAILS, SEE ATTACHED SCHEDULE OF ROW.
 TREE REPLACEMENT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 ALL DRIVEWAYS TO BE RE-SURFACED WITH AGGREGATE UNLESS OTHERWISE NOTED.
 FOR WATER MAIN PLAN & PROFILE SEE WATER MAIN RELOCATION SHEETS.

SEE QUANTITIES NOT OTHERWISE SHOWN FOR:
 DRIVEWAY SCHEDULE
 CULVERT REMOVAL SCHEDULE
 PIPE CULVERT INSTALLATION SCHEDULE
 SIGN REMOVAL/REPLACEMENT SCHEDULE
 PAVEMENT REMOVAL SCHEDULE

SCALES:
 1" = 50' HOR
 1" = 10' VER



NOTES:
 DITCH SLOPES NOTED ARE PERCENT FOOT PER FOOT

PI Sta = 26+00.61
 N = 1444036.42
 E = 629513.12
 I = 44°44'37" L

CIRCULAR
 D_a = 07°16'09"
 D_c = 07°16'27"
 T = 324.42
 L = 788.20
 R = 615.52
 C = 600.00
 E = 64.15
 M = 59.32

SUPERELEVATION DATA
 BEGINS STA. 21+25.19
 FULL STA. 23+34.19
 RATE 0.08 FT/FT
 FULL STA. 28+33.72
 BEGIN 0.02 FT/FT RATE STA. 29+43.19
 HOLD SUPER AT 0.02 FT/FT ACROSS BRIDGE
 END 0.02 FT/FT RATE STA. 31+53.44
 END SUPER STA. 32+30.44

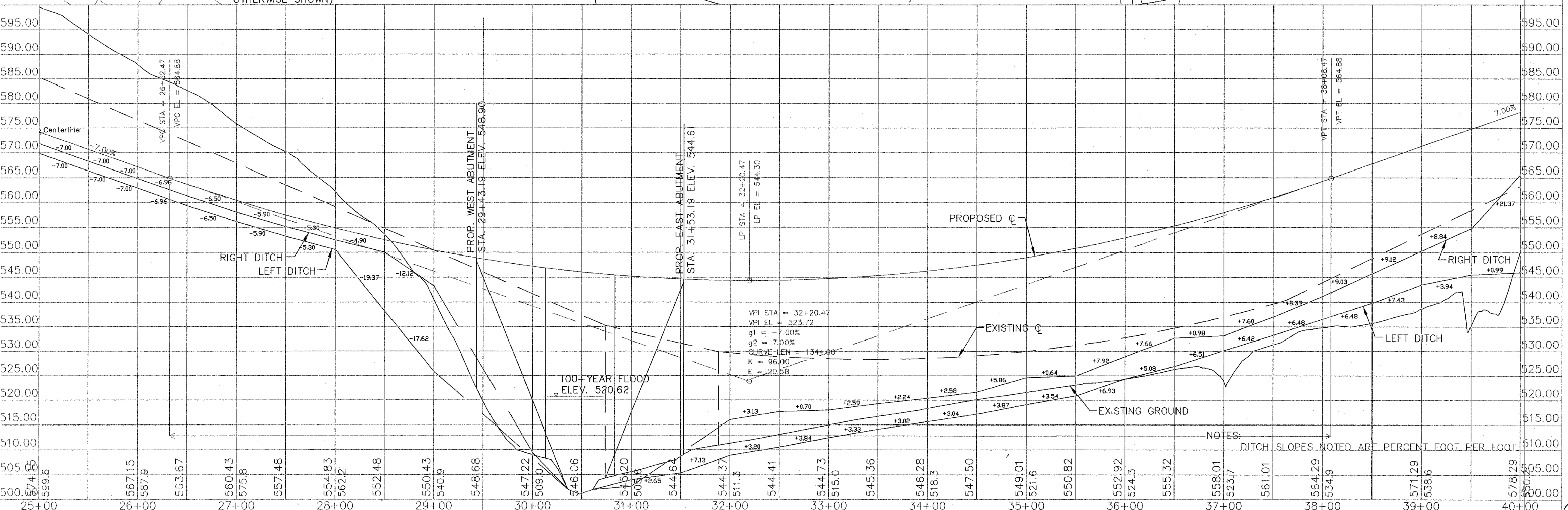
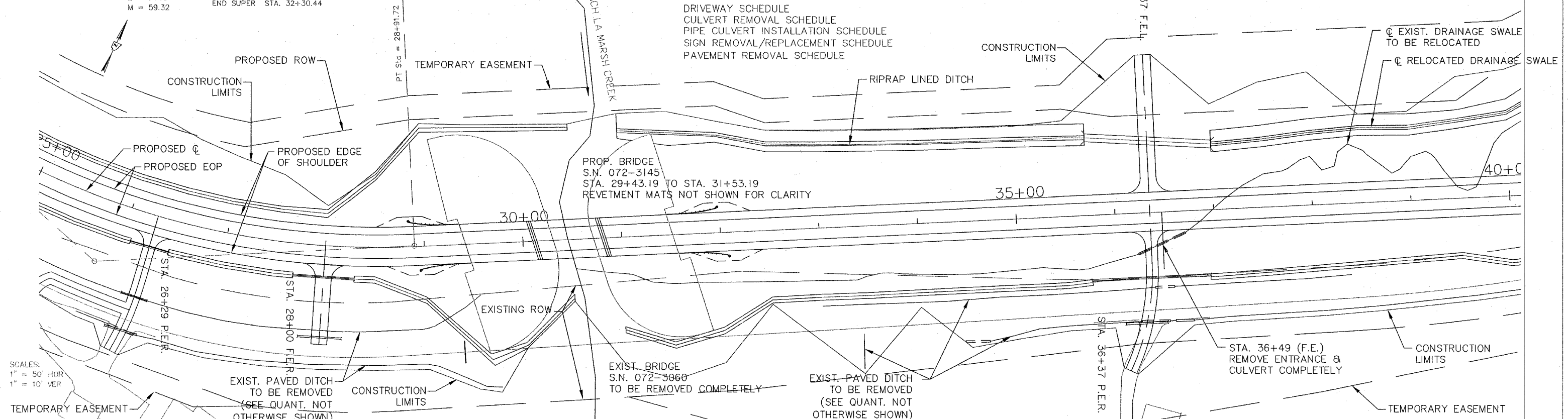
NOTES:

FOR TREE REMOVAL, SEE ATTACHED TREE REMOVAL DETAIL.
 FOR ROW DETAILS, SEE ATTACHED SCHEDULE OF ROW.
 TREE REPLACEMENT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 ALL DRIVEWAYS TO BE RE-SURFACED WITH AGGREGATE UNLESS OTHERWISE NOTED.

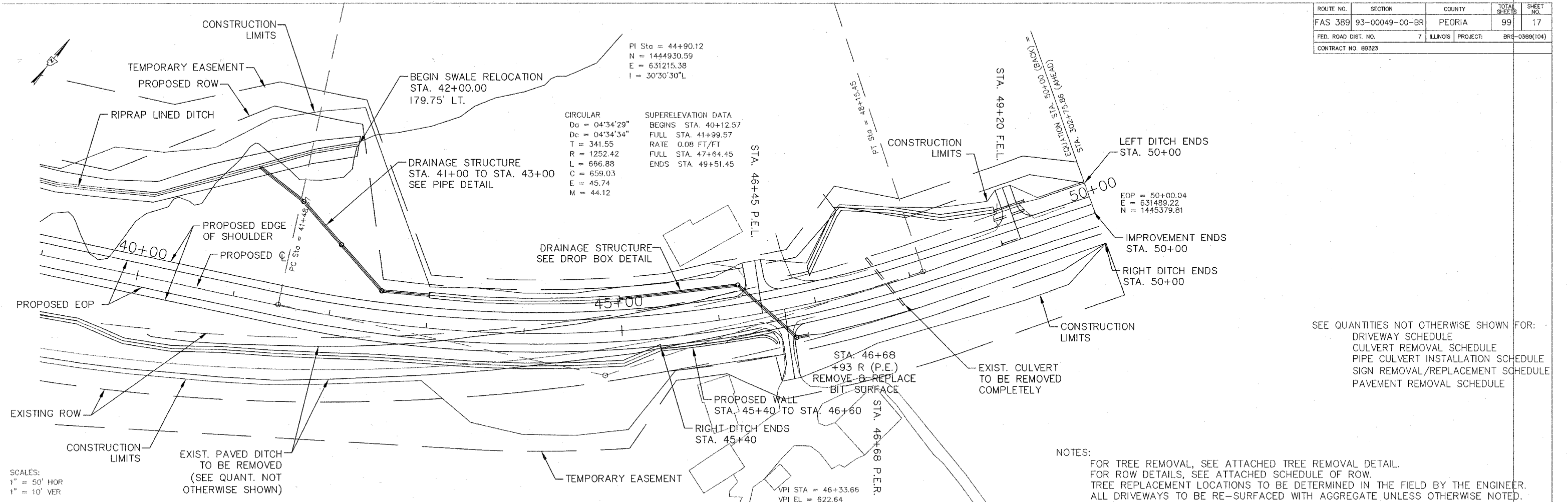
SEE QUANTITIES NOT OTHERWISE SHOWN FOR:

- DRIVEWAY SCHEDULE
- CULVERT REMOVAL SCHEDULE
- PIPE CULVERT INSTALLATION SCHEDULE
- SIGN REMOVAL/REPLACEMENT SCHEDULE
- PAVEMENT REMOVAL SCHEDULE

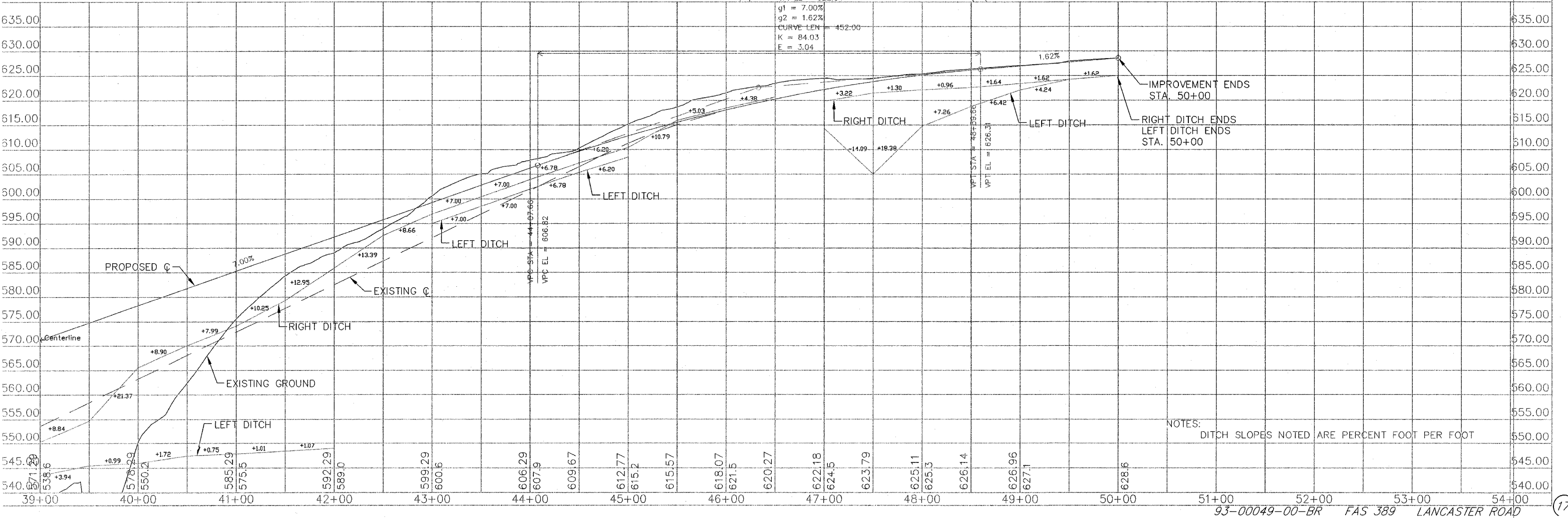
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	16
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BR-0389(104)	
CONTRACT NO. 89323				



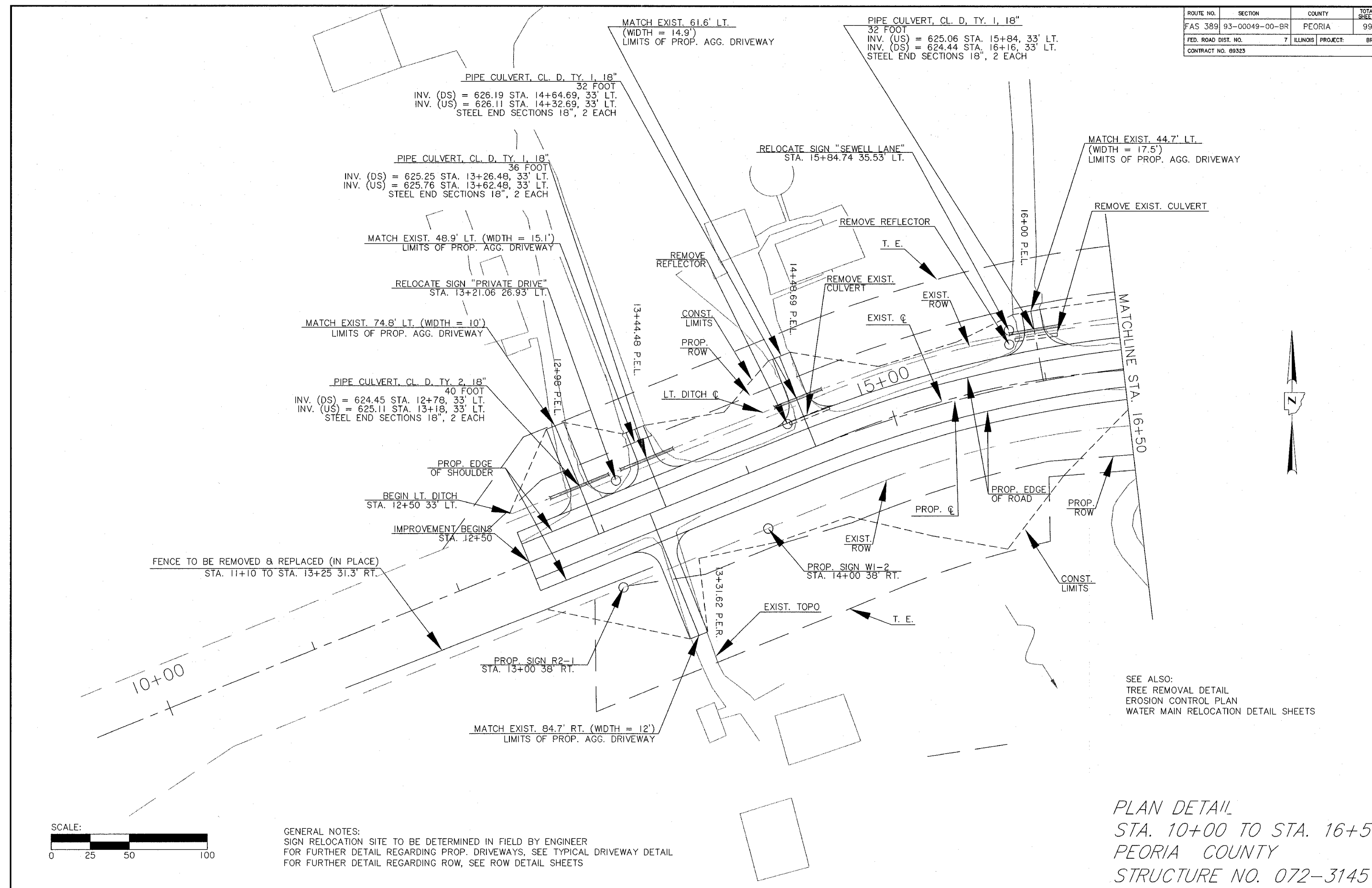
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	17
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				



SEE QUANTITIES NOT OTHERWISE SHOWN FOR:
DRIVEWAY SCHEDULE
CULVERT REMOVAL SCHEDULE
PIPE CULVERT INSTALLATION SCHEDULE
SIGN REMOVAL/REPLACEMENT SCHEDULE
PAVEMENT REMOVAL SCHEDULE

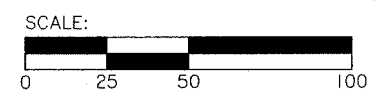


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	18
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT:	BRS-0398(104)	
CONTRACT NO. 89323				



SEE ALSO:
 TREE REMOVAL DETAIL
 EROSION CONTROL PLAN
 WATER MAIN RELOCATION DETAIL SHEETS

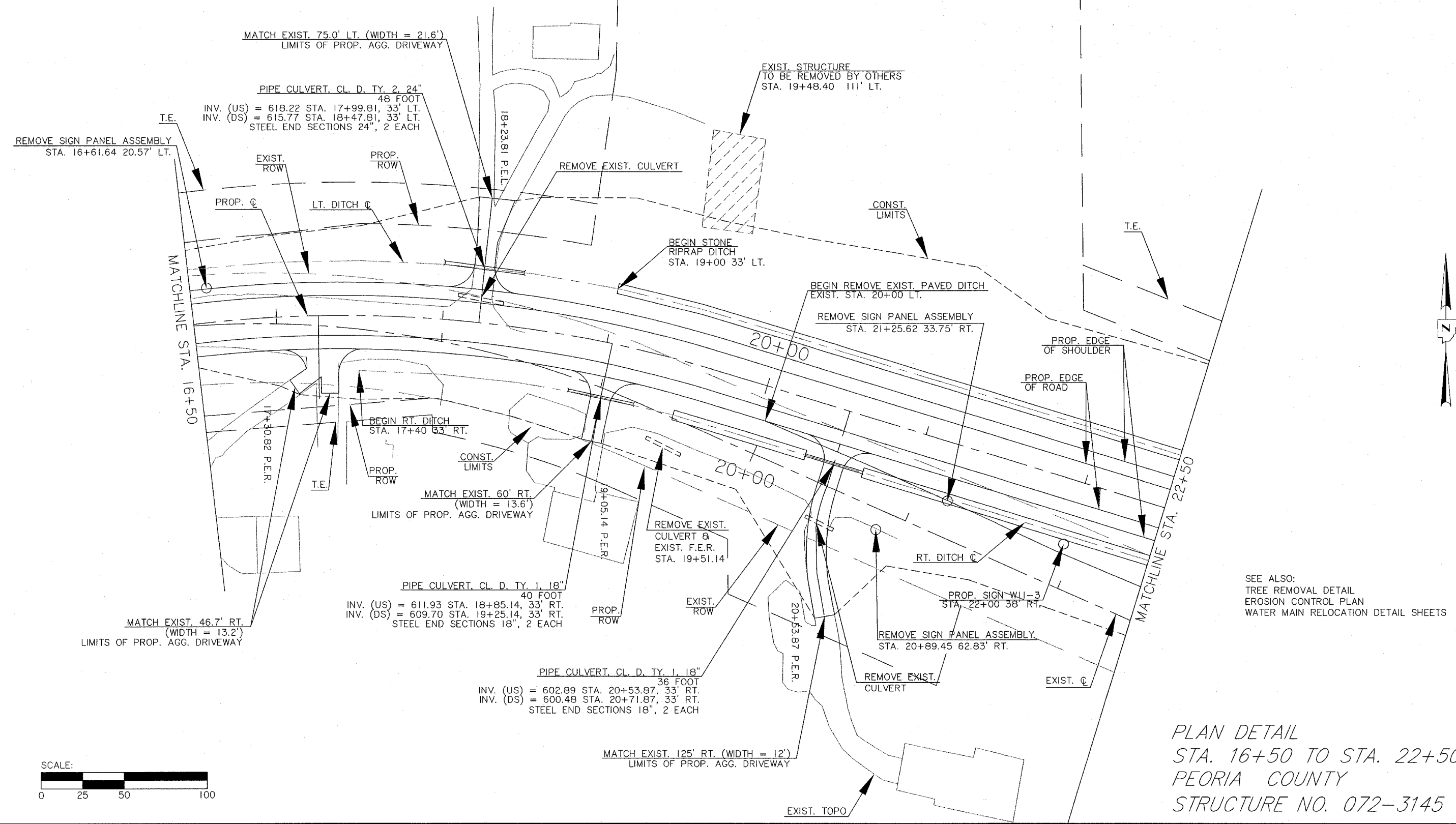
PLAN DETAIL
 STA. 10+00 TO STA. 16+50
 PEORIA COUNTY
 STRUCTURE NO. 072-3145



GENERAL NOTES:
 SIGN RELOCATION SITE TO BE DETERMINED IN FIELD BY ENGINEER
 FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
 FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS

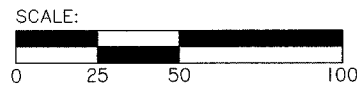
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	19
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT:	BRS-0399(104)	
CONTRACT NO. 89323				

GENERAL NOTES:
 FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
 FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS

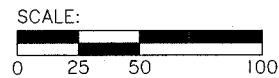


SEE ALSO:
 TREE REMOVAL DETAIL
 EROSION CONTROL PLAN
 WATER MAIN RELOCATION DETAIL SHEETS

PLAN DETAIL
 STA. 16+50 TO STA. 22+50
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

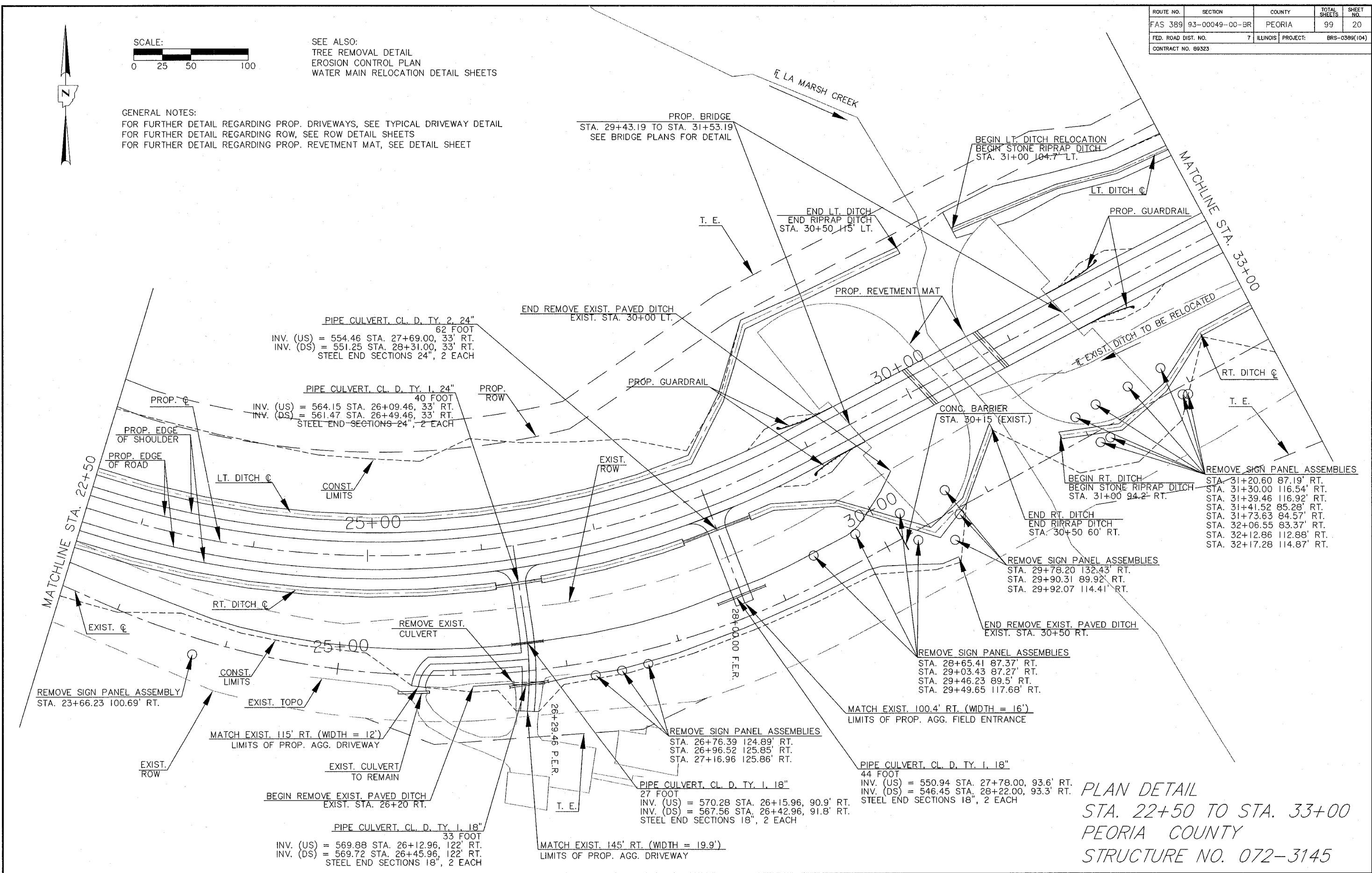


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	20
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT:	BRS-0399(104)	
CONTRACT NO. 89323				



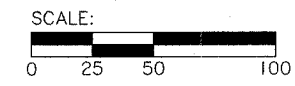
SEE ALSO:
 TREE REMOVAL DETAIL
 EROSION CONTROL PLAN
 WATER MAIN RELOCATION DETAIL SHEETS

GENERAL NOTES:
 FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
 FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS
 FOR FURTHER DETAIL REGARDING PROP. REVETMENT MAT, SEE DETAIL SHEET



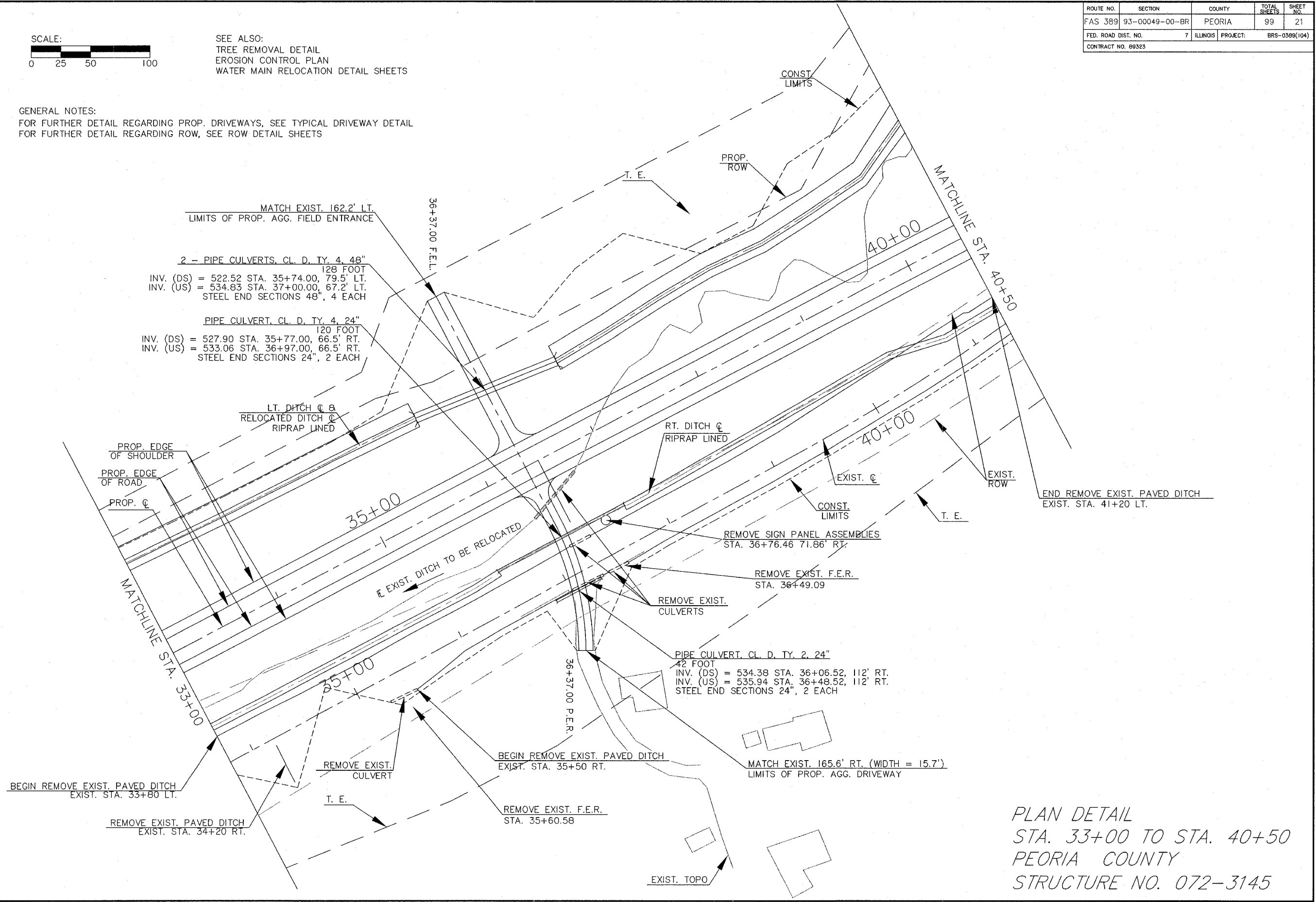
PLAN DETAIL
 STA. 22+50 TO STA. 33+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	21
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				



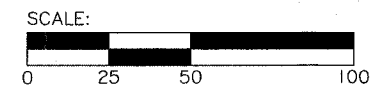
SEE ALSO:
 TREE REMOVAL DETAIL
 EROSION CONTROL PLAN
 WATER MAIN RELOCATION DETAIL SHEETS

GENERAL NOTES:
 FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
 FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS



PLAN DETAIL
 STA. 33+00 TO STA. 40+50
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	22
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT:	BRS-0389(104)	
CONTRACT NO. 89323				



END LT. DITCH RELOCATION
END STONE RIPRAP DITCH
STA. 42+00.00 179.8' LT.
ELEV. = 549.28

E. EXIST. DITCH

CONST. LIMITS

PROP. DRAINAGE STRUCTURE
STA. 41+00 TO STA. 43+00
SEE DROP BOX DETAIL

T. E.

RELOCATED DITCH C
RIPRAP LINED

T. E.

PROP. SIGN W11-3
STA. 46+00 38' RT.

MATCHLINE STA. 45+00

PROP. ROW

BEGIN LT. DITCH C
BEGIN STONE RIPRAP DITCH
STA. 43+00 33' LT.

PROP. C

LT. DITCH C B
RELOCATED DITCH C
RIPRAP LINED

45+00

EXIST. ROW

PROP. EDGE OF SHOULDER

PROP. EDGE OF ROAD

T. E.

BEGIN REMOVE EXIST. PAVED DITCH
EXIST. STA. 44+00 RT. & LT.

MATCHLINE STA. 40+50

END REMOVE EXIST. PAVED DITCH
EXIST. STA. 44+00 RT. & LT.

CONST. LIMITS

EXIST. C

GENERAL NOTES:
FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS

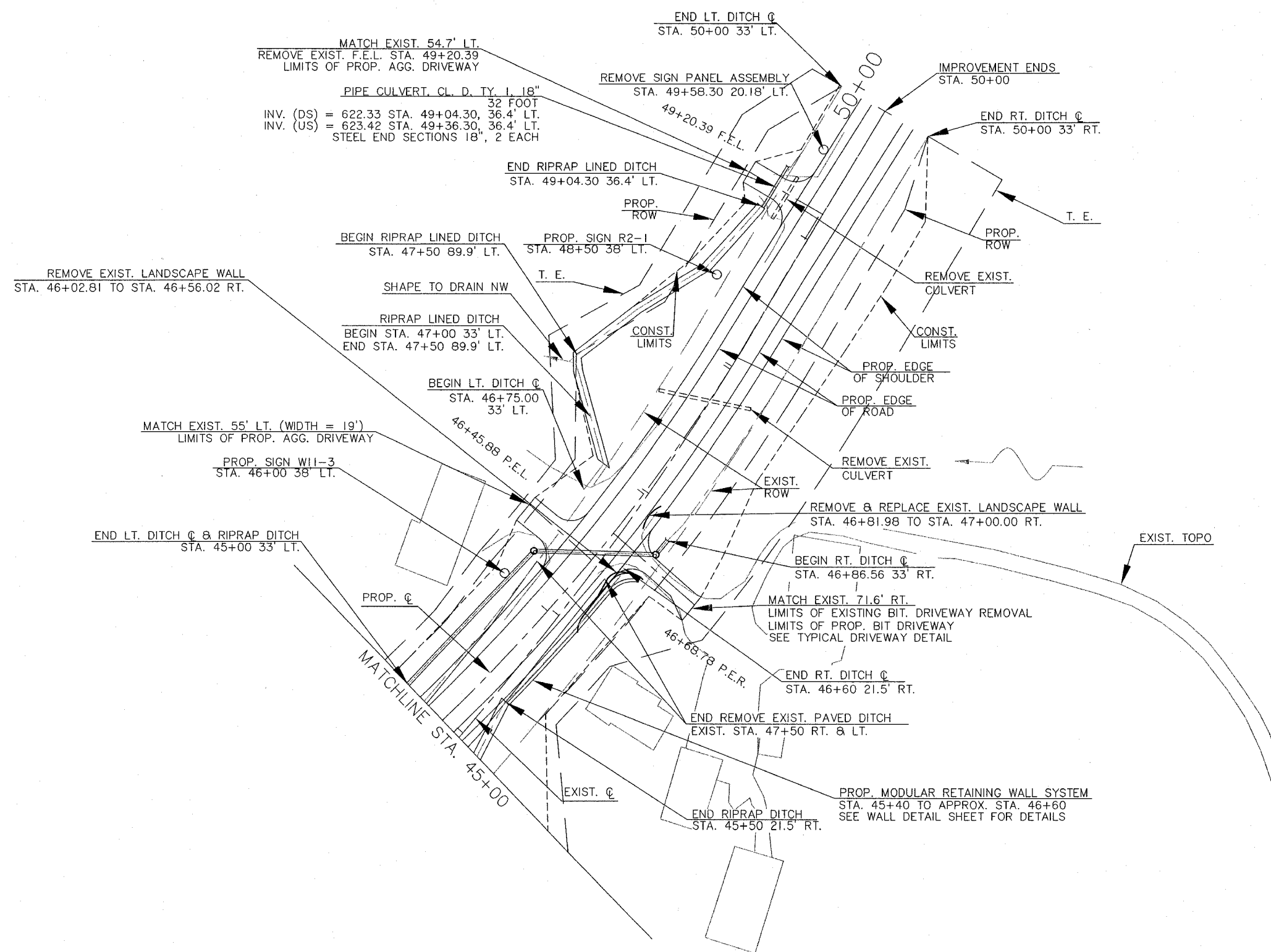
SEE ALSO:
TREE REMOVAL DETAIL
EROSION CONTROL PLAN
WATER MAIN RELOCATION DETAIL SHEETS
DROP BOX DETAIL

RT. DITCH C
RIPRAP LINED

BEGIN REMOVE EXIST. PAVED DITCH
EXIST. STA. 41+50 LT.

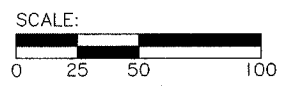
PLAN DETAIL
STA. 40+50 TO STA. 45+00
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	23
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0399(104)
CONTRACT NO. 89323				



SEE ALSO:
 TREE REMOVAL DETAIL
 EROSION CONTROL PLAN
 WATER MAIN RELOCATION DETAIL SHEETS
 DROP BOX DETAIL

GENERAL NOTES:
 FOR FURTHER DETAIL REGARDING PROP. DRIVEWAYS, SEE TYPICAL DRIVEWAY DETAIL
 FOR FURTHER DETAIL REGARDING ROW, SEE ROW DETAIL SHEETS
 FOR FURTHER DETAIL REGARDING STORM SEWER, SEE DROP BOX DETAIL SHEETS



PLAN DETAIL
 STA. 45+00 TO STA. 50+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

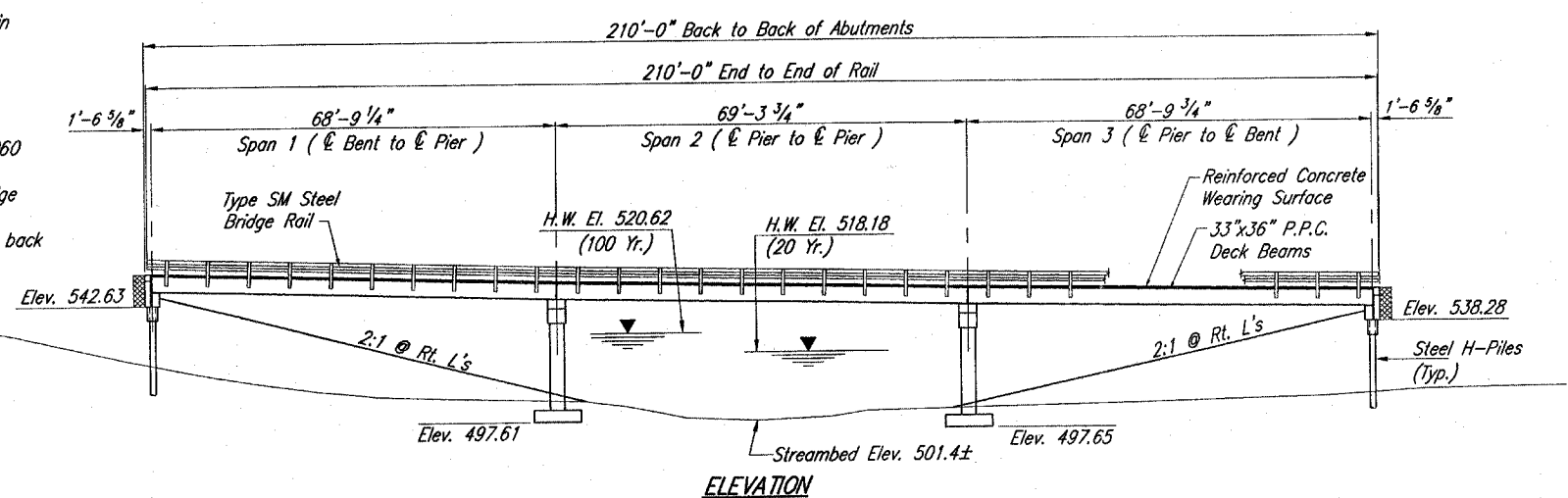
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FAS 389	93-00049-00-BR	PEORIA	99	24
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	BRS-0389(104)	
CONTRACT NO. 89323				

Sheet 1 of 8

B.M. #3 - 60d nail in power pole at entrance to abandoned farm 6610 Lancaster Road. Elev. = 538.46

B.M. #4 - Chiseled square in top of abutment wing wall (NE end of bridge) Elev. = 528.91

Existing Structure: #072-3060
The existing structure is a three-span steel girder bridge with a concrete deck. The structure measures 115'-0" back to back of abutments and 23'-0" out to out of deck.

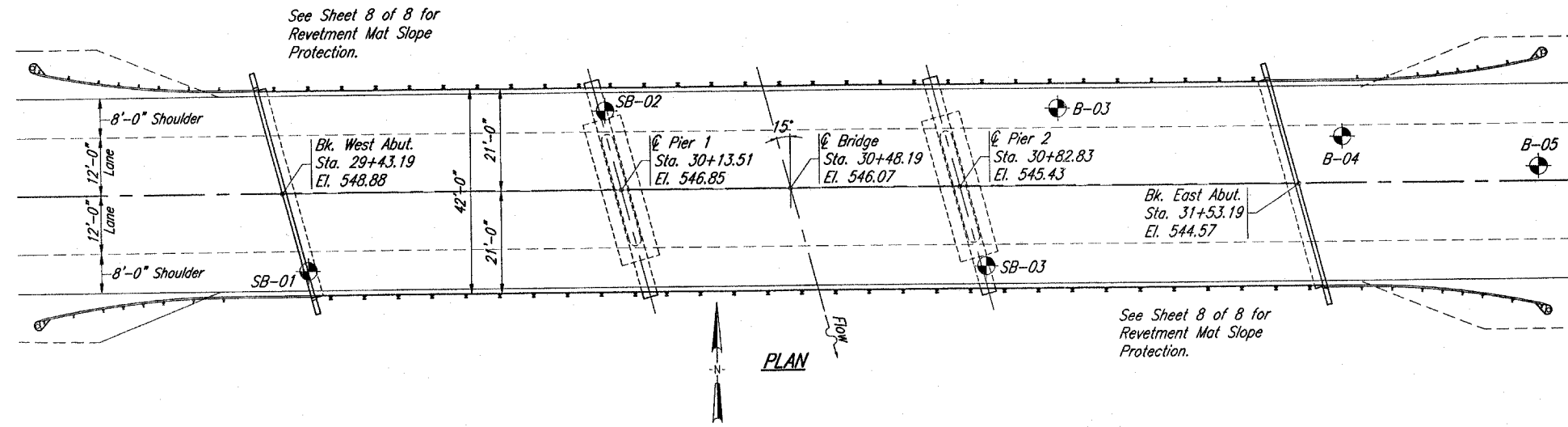


GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Concrete Sealer shall be applied to the designated areas of the abutments and piers.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
6. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
7. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number as shown in the contract plans.

BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Structures	Each	-	-	1
Concrete Structures	Cu.Yd.	-	307.9	307.9
Reinforcement Bars, Epoxy Coated	Lb.	12760	49260	62020
Steel Railings, Type SM	Foot	420	-	420
Precast, Prestressed Concrete Deck Beams (33" Depth)	Sq.Ft.	8725.5	-	8725.5
Name Plates	Each	-	1	1
Furnishing Steel Piles HP 12x53	Foot	-	456	456
Driving Piles	Foot	-	456	456
Test Piles, Steel HP 12x53	Each	-	2	2
Structure Excavation	Cu.Yd.	-	424	424
Concrete Encasement	Cu.Yd.	-	4.9	4.9
Underwater Structure Excav. Protection Loc'n. 1 (Pier 1)	Each	-	1	1
Underwater Structure Excav. Protection Loc'n. 2 (Pier 2)	Each	-	1	1
Fabric Formed Concrete Revetment Mat	Sq.Yd.	-	4404	4404
Concrete Sealer	Sq.Ft.	-	2174	2174
Bridge Deck Grooving	Sq.Yd.	932	-	932
Protective Coat	Sq.Yd.	980	-	980
Concrete Wearing Surface, 5"	Sq.Yd.	970.0	-	970.0
Pile Shoes	Each	-	14	14
Rock Excavation for Structures	Cu.Yd.	-	26.4	26.4



WATERWAY INFORMATION

Drainage Area = 9.6 Sq.Mi.		Low Grade Elev. 544.61		At Sta. 31+53.42		
Flood	Yr.	Q C.F.S.	Opening Sq.Ft. Exist. Prop.	Natural H.W.E.	Head-Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	20	1780	400 1079	518.18	- 0.5	- 518.68
Base	100	2607	537 1327	520.62	- 1.0	- 521.62

DESIGN STRESSES

Super: $f'_c = 5,000$ p.s.i.
 $f'_{ci} = 4,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($1/2$ " Strand)
 $f'_{si} = 201,960$ p.s.i. ($1/2$ " Strand)
 $f_y = 60,000$ p.s.i.
 Sub: $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

LOADING HS20

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

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient = 1.0

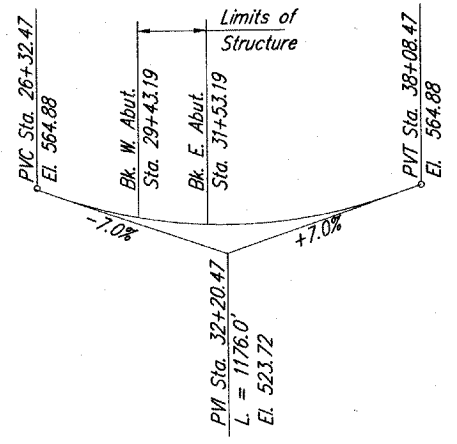
DESIGN SPECIFICATIONS

2002 (17th Edition) AASHTO Standard Specifications for Highway Bridges

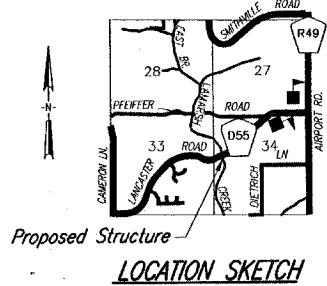
LETTERING FOR NAME PLATE

Locate Name plate on Southeast Corner of Bridge (See Standard 515001-02)

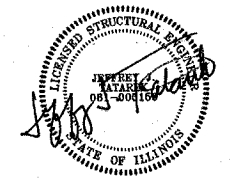
BRANCH OF LA MARSH CREEK
 BUILT 200 BY
 PEORIA COUNTY
 SEC. 93-00049-00-BR
 LOADING HS20
 STR. NO. 072-3144



PROPOSED PROFILE GRADE



LOCATION SKETCH



SIGNATURE: *J. Hanson*
 DATE: 11/30/09
 LIC. EXP. DATE: 11/30/09

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."

REVISION

DATE

HANSON
 Hanson Professional Services Inc.
 2900 W. Willow Knolls Road
 Peoria, Illinois 61614-1129

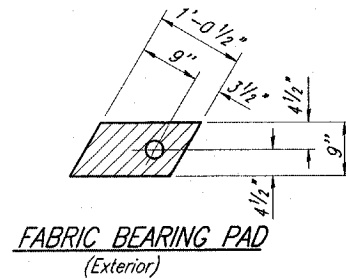
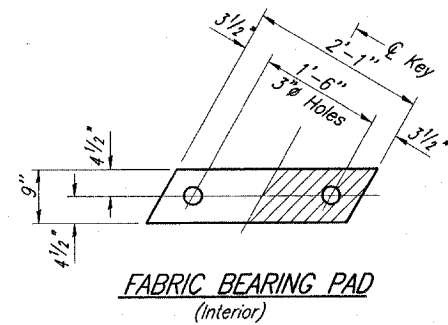
GENERAL PLAN AND ELEVATION

LANCASTER RD. OVER LA MARSH CREEK
 STRUCTURE NO. 072-3145
 PEORIA COUNTY, ILLINOIS

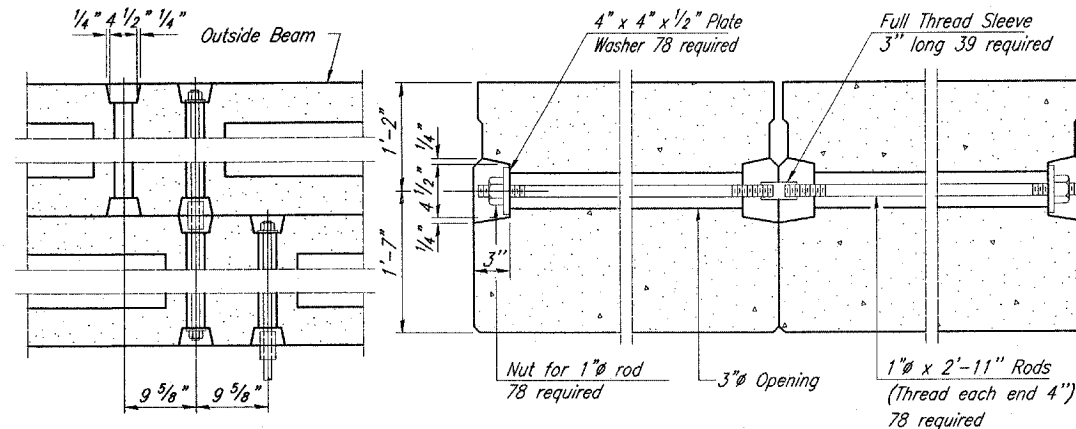
24

24 of 99 sheets

APR 05, 2007 7:04 PM CAL
 J:\06\085\06-2008\FINAL PLANS\070406 BRIDGE GP&E.DWG



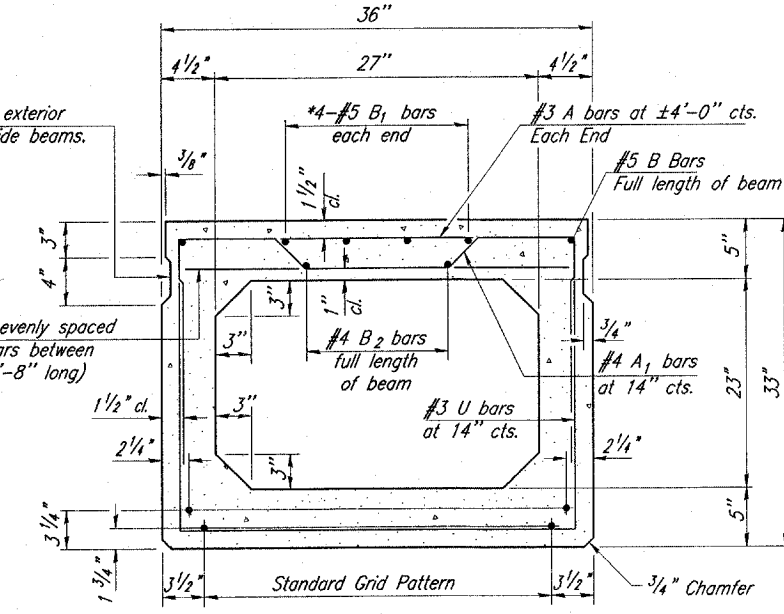
FIXED



*0.2 x Length of beam Sheet 2 of 8

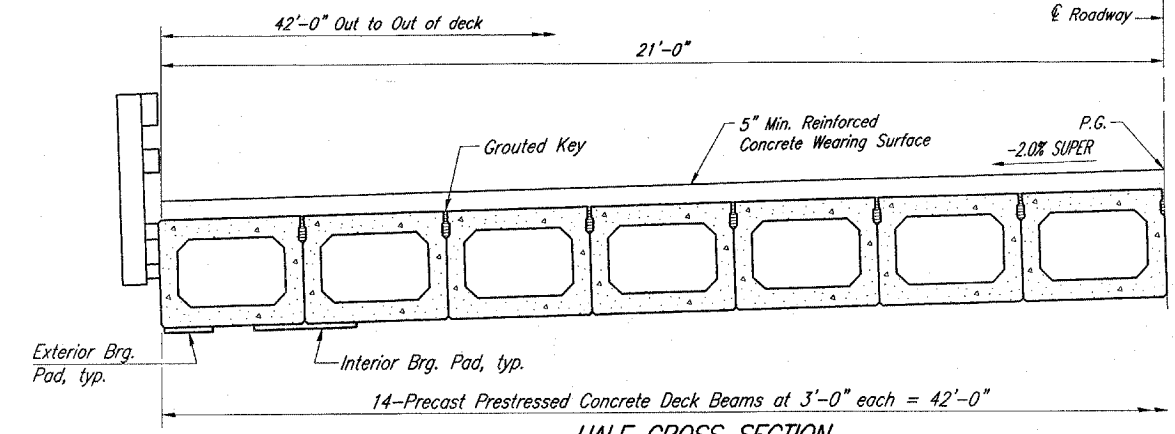
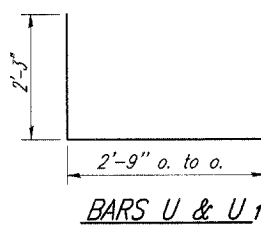
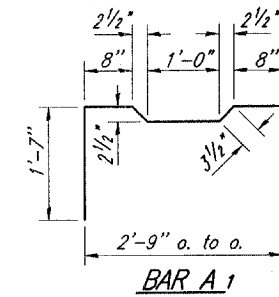
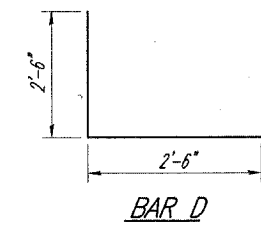
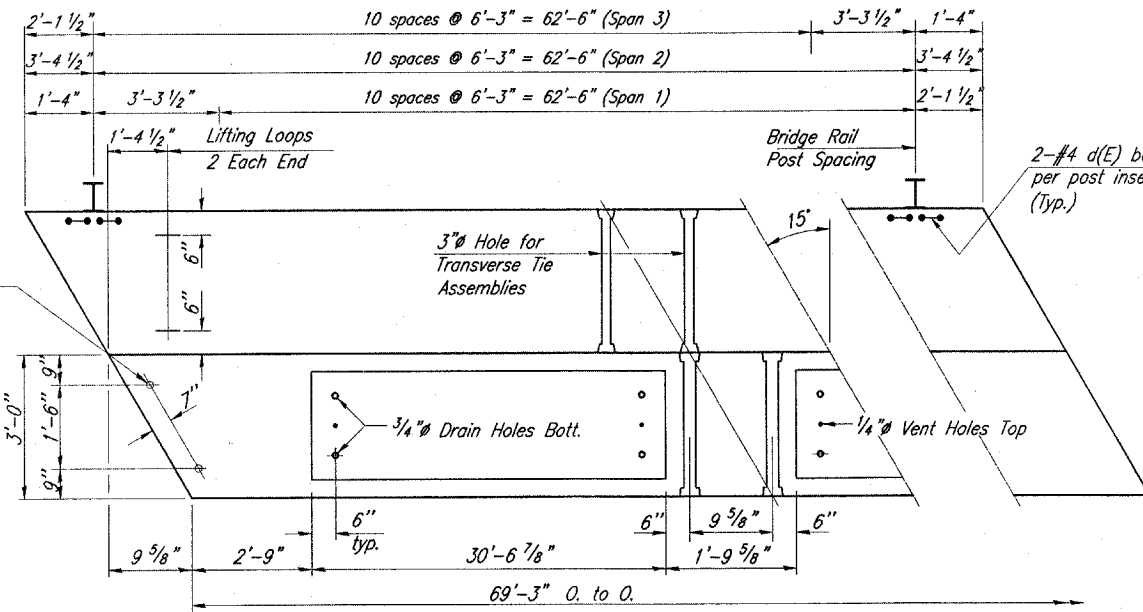
Omit key on exterior face of outside beams.

2-#3 A bars evenly spaced between A₁ bars between end blocks (2'-8" long)



1/2" Strands, Each Strand Stressed to 30,900 Lbs.
7 Strands 1 3/4" up, 6 Strands 3 1/4" up, 2 Strands 6" up,
2 Strands 9" up, 2 Strands 12" up

Note: Place strands symmetrically about C of beam.



NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
- The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Lifting loops shall be 2-1/2" - 270 ksi strands, as shown.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
- Non prestressing steel shall conform to ASTM A 706 Gr 60 (L Modified). See Special Provisions.
- The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
- A Corrosion Inhibitor shall be used in the concrete for the precast prestressed concrete deck beams, according to Article 1020.05 (b)(12) of the Standard Specifications.
- Required Release Strength, f_{ci}, shall be 4,000 p.s.i.
- The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

BILL OF MATERIAL

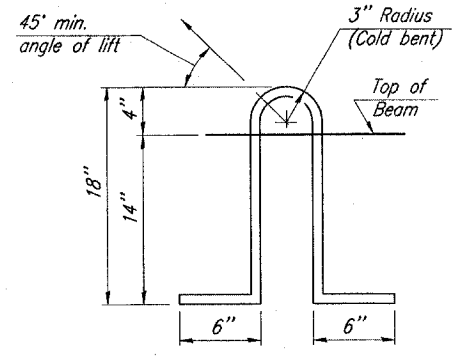
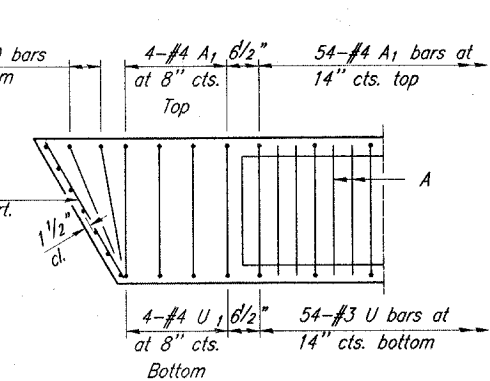
ITEM	UNIT	QUANTITY
Precast Prestressed Conc. Deck Bms.	Sq. Ft.	8725.5

APR 05 2007 6:38 PM CML
F:\PROJECTS\1002003\1002003\PLANS\0704001\BRIDGE\PD-5-R.DWG

PD-5-R

END PLAN

LIFTING LOOP DETAIL



REVISION

DATE

Hanson No. 06P2008	Scale 04/06/07	Date 04/06/07
File Name PD-5-R.DWG	LAYOUT	10/12/06
	DRAWN	10/12/06
	REVIEWED	01/16/07

Phone: (309) 691-0902
Fax: (309) 691-1327
www.hanson-inc.com
Offices Nationwide

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Hanson Professional Services Inc.
2900 W. Willow Knolls Road
Peoria, Illinois 61614-1129

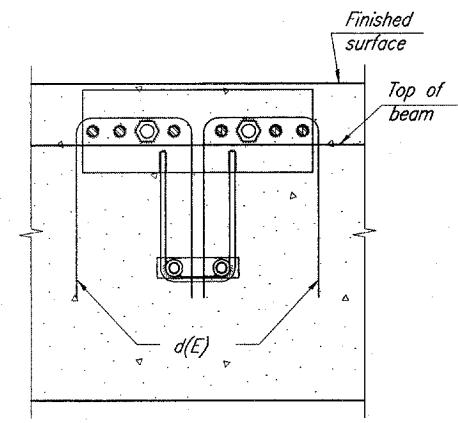
SUPERSTRUCTURE

LANCASTER RD. OVER LaMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS

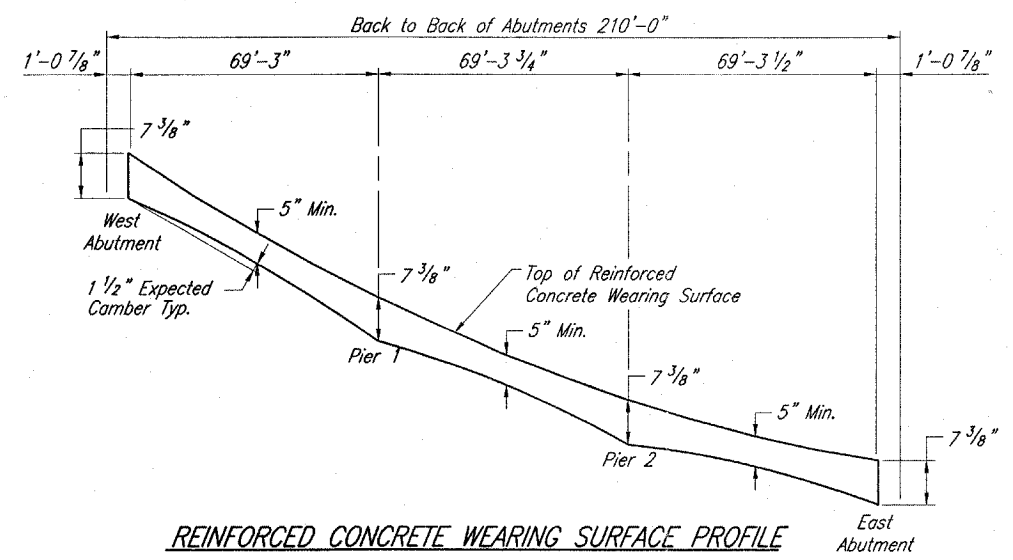
Note:
Order $a_3(e)$ thru $a_5(E)$ bars full length.
Cut in field as shown and use remainder
of bars in opposite end of the deck.

CUT DIAGRAM $a_3(E)$, $a_4(E)$ & $a_5(E)$ BARS

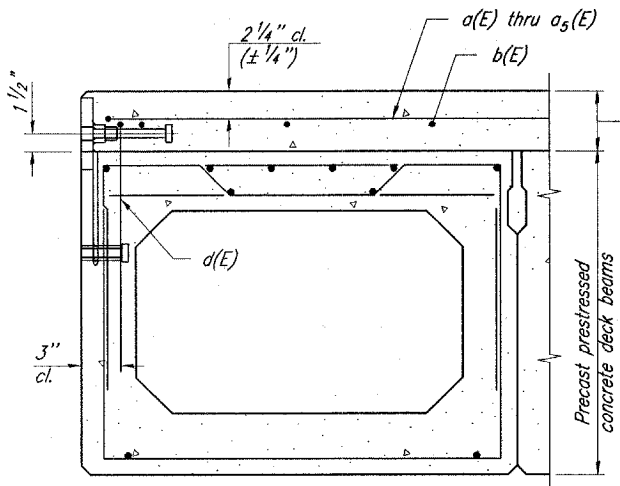
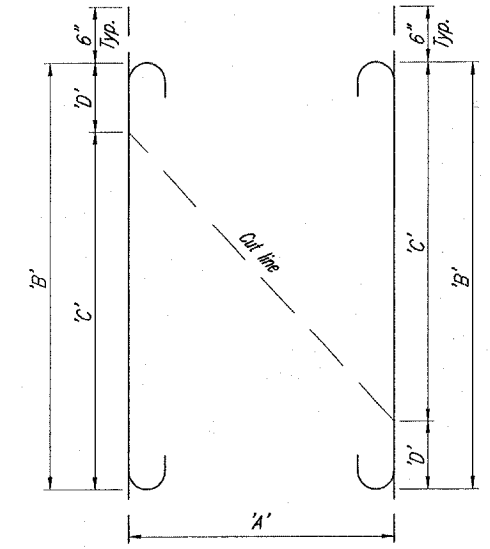
Bar	A'	B'	C'	D'
$a_3(E)$	2	20'-11"	12'-4"	8'-7"
$a_4(E)$	4	15'-11"	13'-7"	2'-4"
$a_5(E)$	4	17'-4"	3'-1"	14'-3"



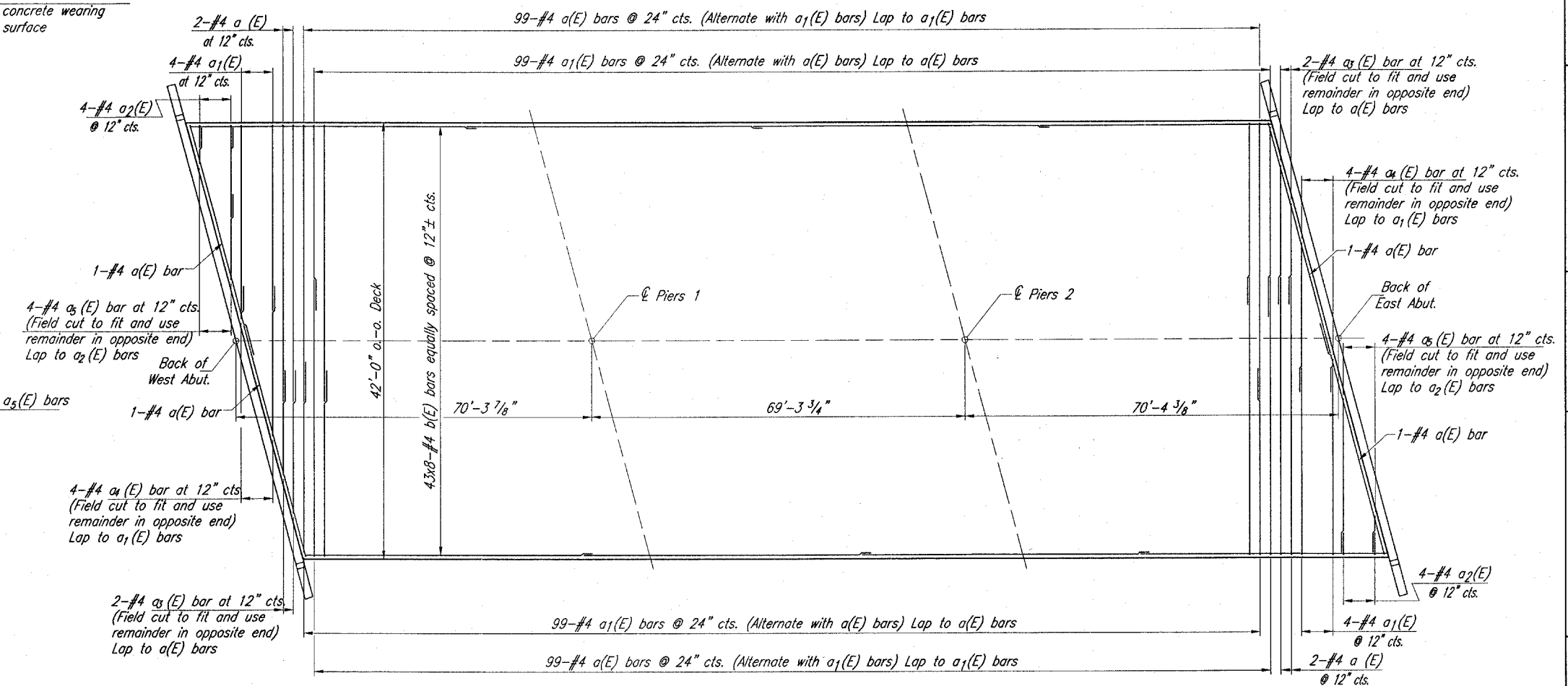
SECTION A-A



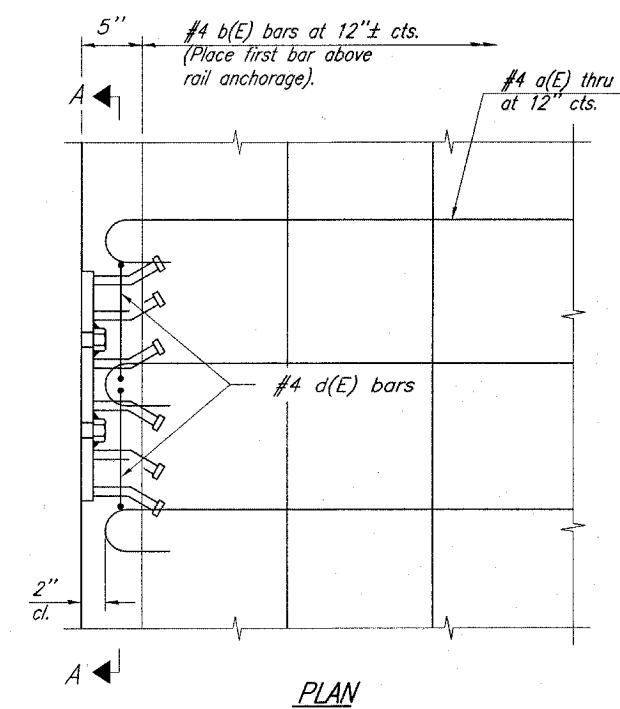
REINFORCED CONCRETE WEARING SURFACE PROFILE



CROSS SECTION

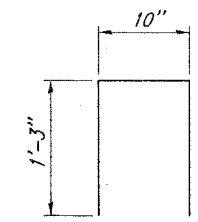


HALF PLAN

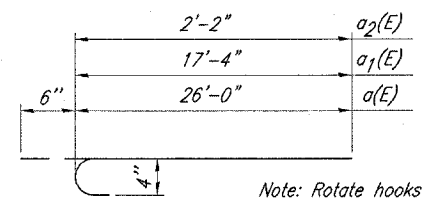


PLAN

BAR LAPS
#4 Bars = 1'-8"



d(E) BAR



a(E), a1(E) & a2(E) BARS

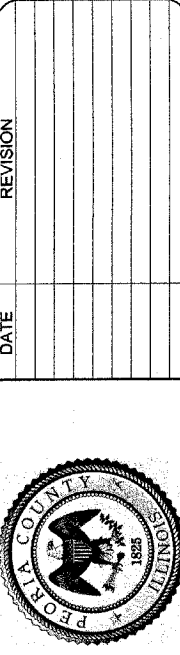
Note: Rotate hooks to maintain clearances.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	202	#4	26'-6"	U
a1(E)	206	#4	17'-10"	U
a2(E)	8	#4	2'-8"	U
a3(E)	2	#4	21'-5"	U
a4(E)	4	#4	12'-10"	U
a5(E)	4	#4	9'-1"	U
b(E)	344	#4	27'-6"	—
d(E)	140	#4	3'-4"	□

Bar	No.	Size	Length	Shape
Bridge Deck Grooving		Sq. Yd.	932	
Protective Coat		Sq. Yd.	980	
Concrete Wearing Surface, 5"		Sq. Yd.	970.0	
Reinforcement Bars, Epoxy Coated		Pound	12760	

Notes:
The rail anchorage shall be cast with the beam. Any formwork necessary for field casting the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.
Bars indicated thus: 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

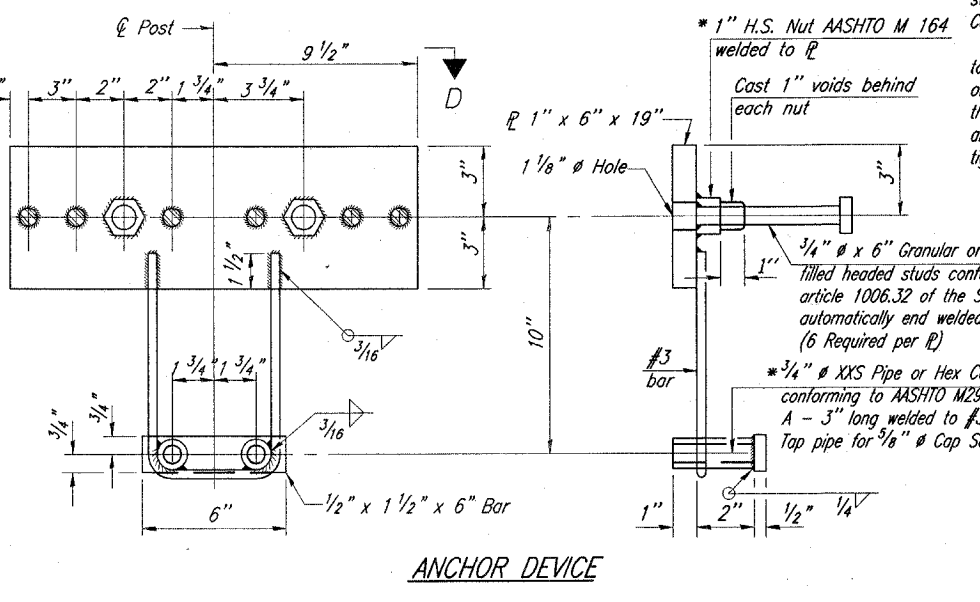
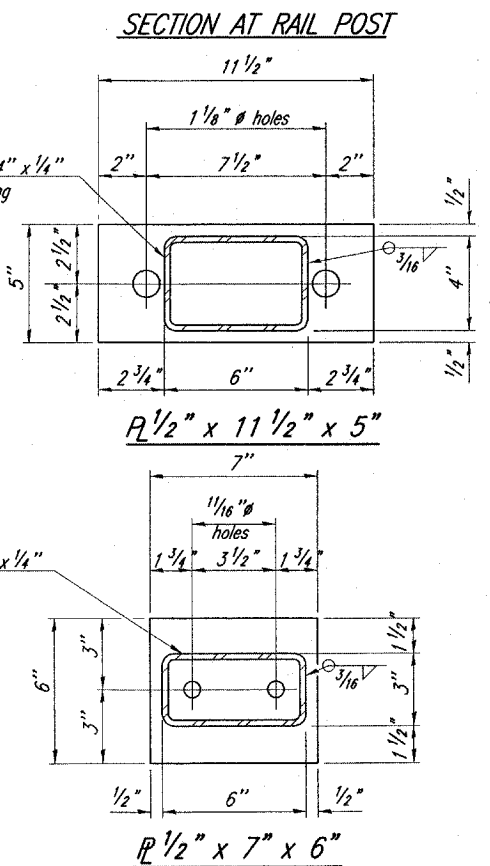
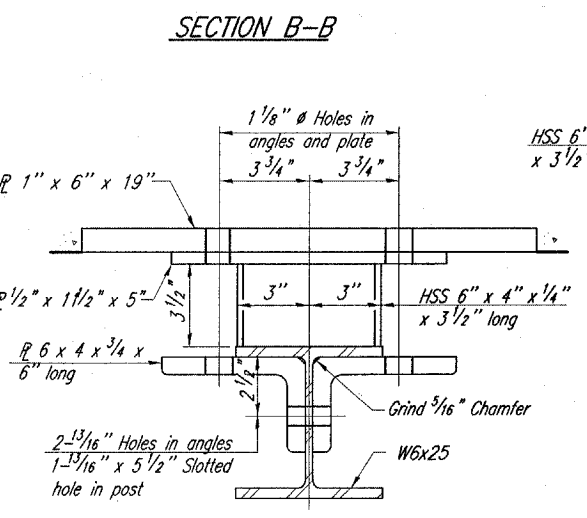
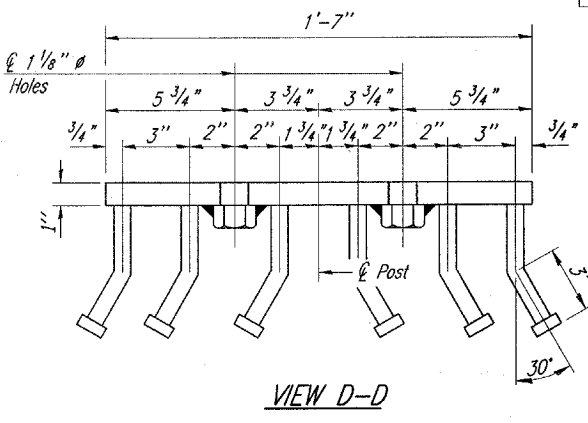
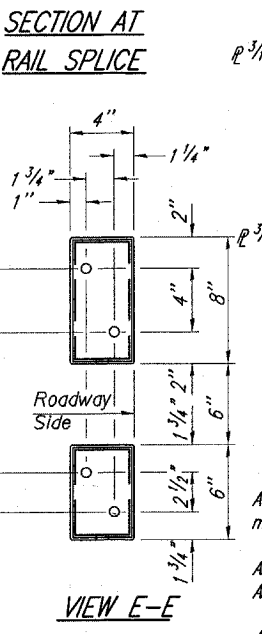
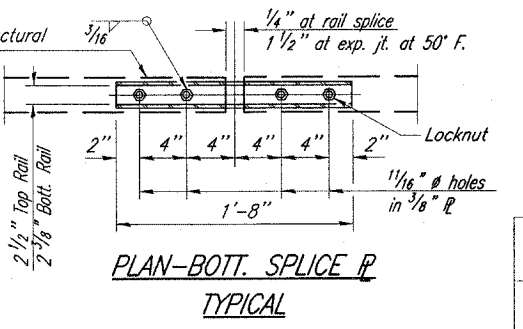
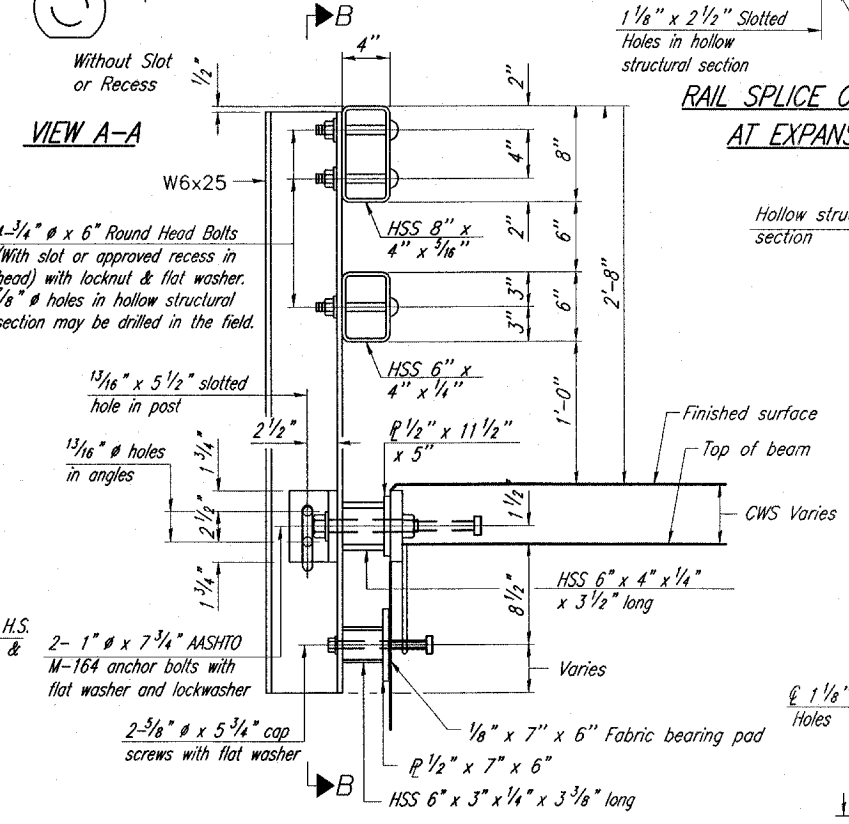
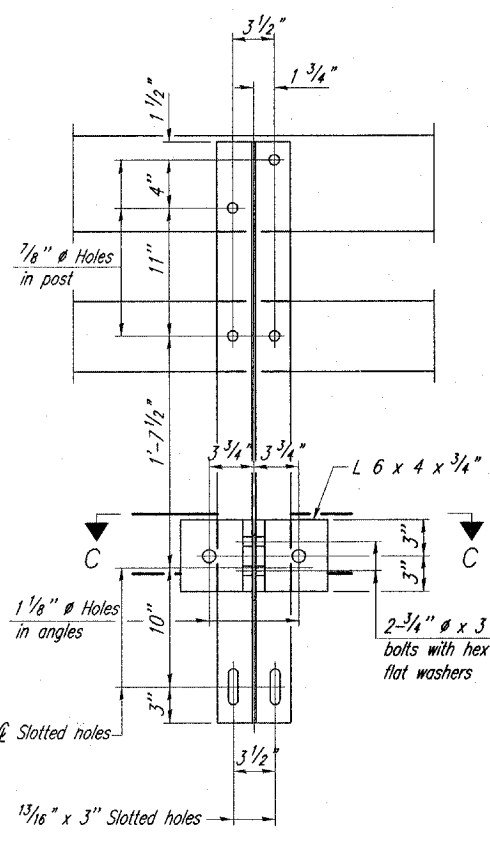
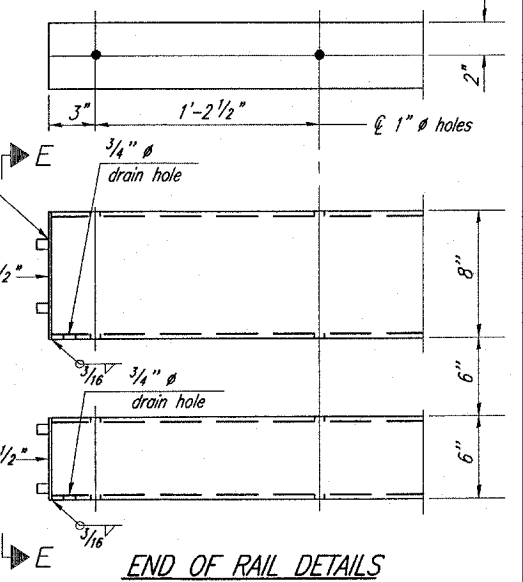
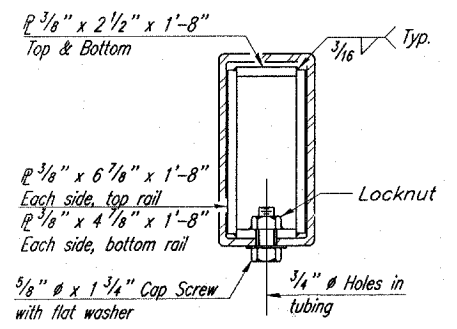
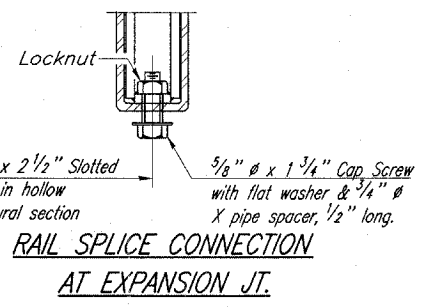
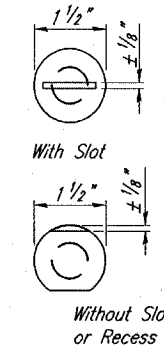
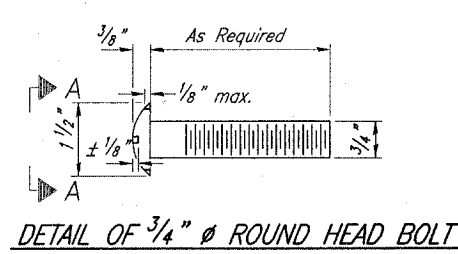


Revision	DATE	BY	CHKD

Revision	DATE	BY	CHKD

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Professional Services Inc.
2800 W. Willow Knolls Road
Peoria, Illinois 61614-1129

REINFORCED CONCRETE
WEARING SURFACE AND
RAILING CONNECTION DETAILS
LANCASTER RD. OVER LANARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS



NOTES

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

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

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

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

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

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

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

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railings Type SM	Foot	420

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

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REVISION	DATE	BY	CHKD

Drawn: R-34.DWG	Scale: 04/06/07
LAYOUT: 10/12/06	TWZ: 10/12/06
DRAWN: RLA	RA: 10/12/06
REVIEWED: JUT	JUT: 01/16/07

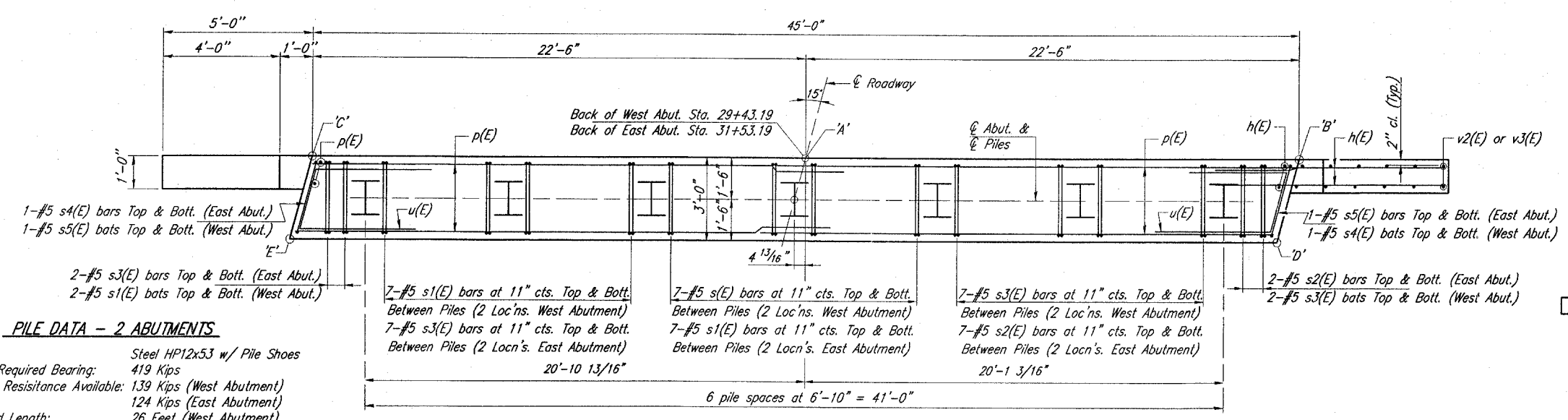
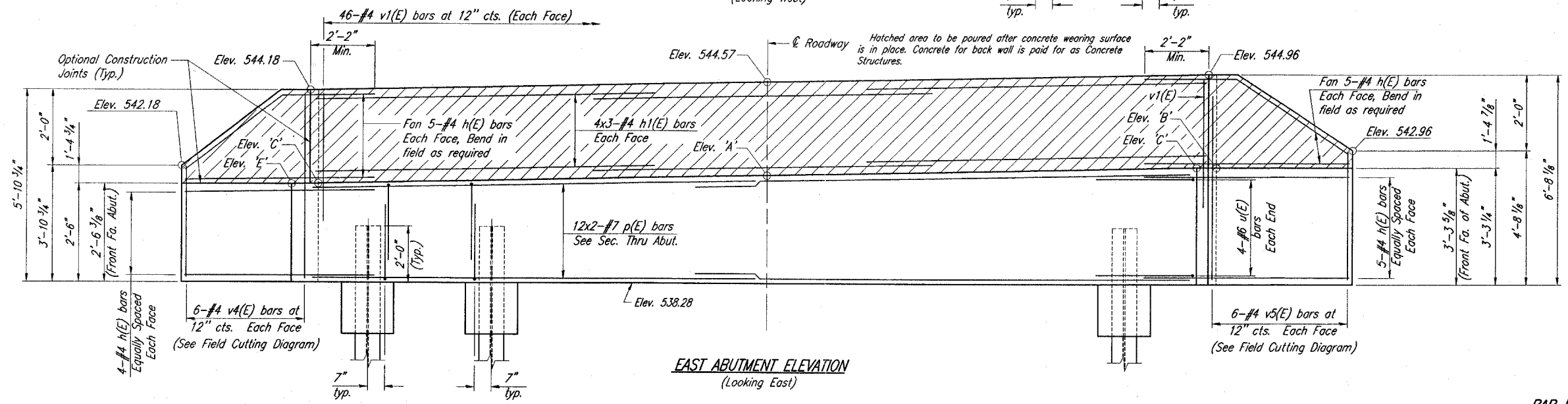
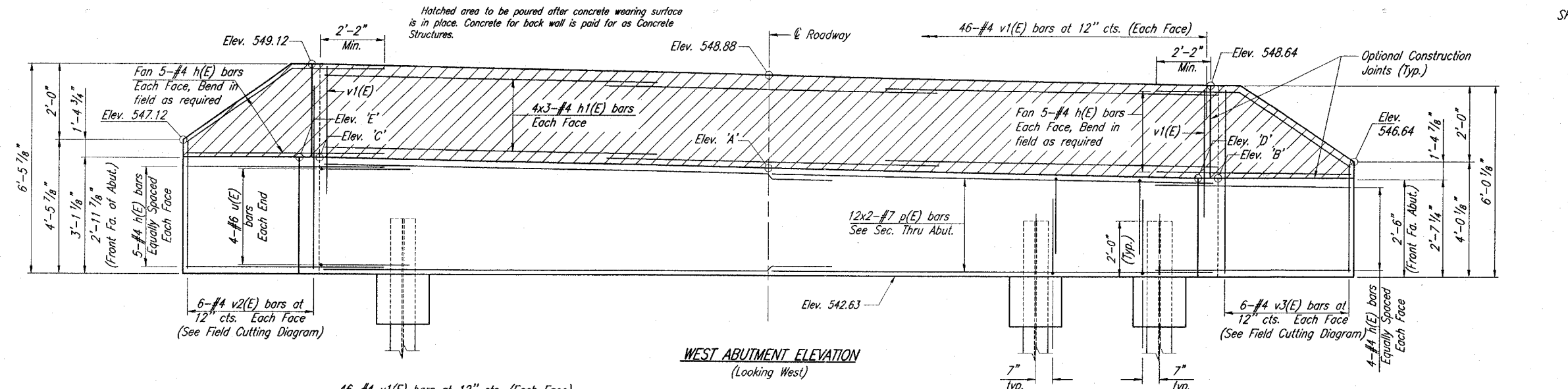
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Peoria, Illinois 61614-1129

**TYPE SM STEEL BRIDGE RAIL
SIDE MOUNTED WITH
CONCRETE WEARING SURFACE**
LANCASTER RD. OVER LAMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS

27

27 of 99 sheets



PILE DATA - 2 ABUTMENTS

Type: Steel HP12x53 w/ Pile Shoes

Nominal Required Bearing: 419 Kips

Allowable Resistance Available: 139 Kips (West Abutment)
124 Kips (East Abutment)

Estimated Length: 26 Feet (West Abutment)
50 Feet (East Abutment)

No. Production Piles: 12 Each

No. Test Piles: 2 Test Piles Included

BAR LAPS

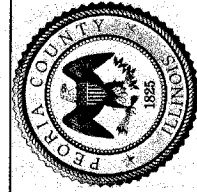
#4 Bars 1'-8"
#5 Bars 2'-2"
#7 Bars 4'-10"

BEARING SEAT ELEVATIONS

Point	W. Abut.	E. Abut.
A'	545.47	541.16
B'	545.23	541.55
C'	545.72	540.78
D'	545.13	541.58
E'	545.62	540.81

*East Abutment piles shall be driven through 18" diameter precored holes extending to Elev. 510.00 according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

REVISION
DATE



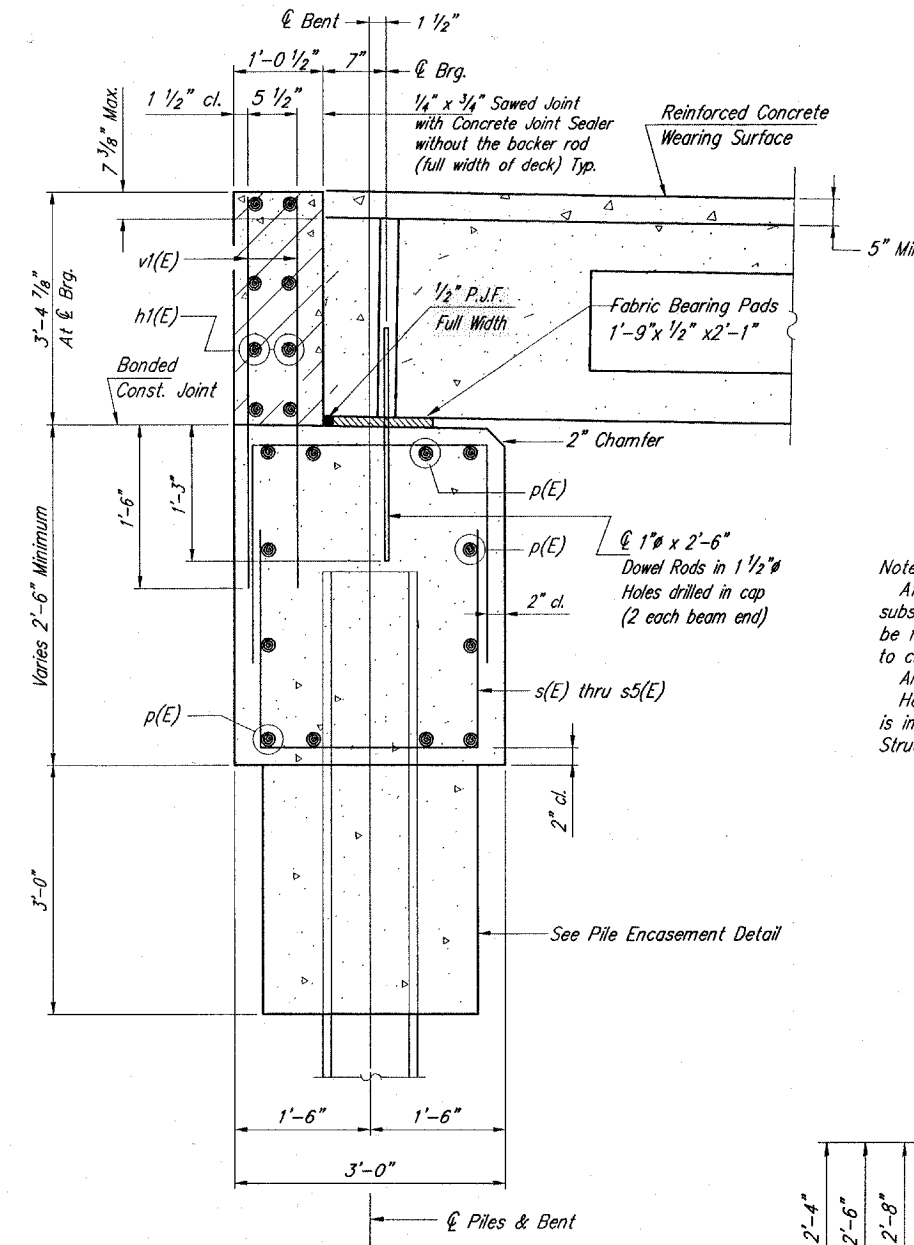
Hammer No. 06P2008	10/12/06
Drawn AL-R.D.W.C.	11/30/07
Scale 04/06/07	JUN
LAYOUT	07/16/07
DRAWN	
REVIEWED	

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PILE BENT ABUTMENTS

LANCASTER RD. OVER LAMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS



Notes:
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
 All horizontal dimensions are at right angles to beam ends.
 Hatched area to be poured after concrete wearing surface is in place. Concrete for back wall is paid for as Concrete Structures.

NOTES

The Backwall and the portion of the wingwalls above the bonded construction joint shall be cast against the in-place beam.

Space reinforcement in cap to miss dowel rods.

A benchmark shall be installed in the flat portion of one of the wingwalls. A benchmark disk shall be furnished to the Contractor by the Engineer and installed as directed by the Engineer. Cost included with Concrete Structures.

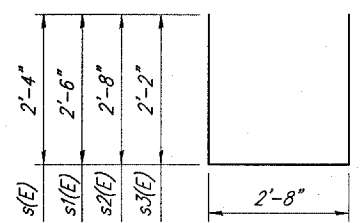
East Abutment piles shall be driven through 18" diameter precored holes extending to Elev. 510.00 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

Apply Concrete Sealer to front face and top surfaces of wingwalls; front face and beam seat surfaces of abutments.

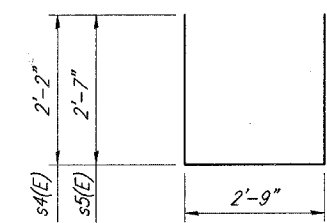
The Steel H-piles shall be according to AASHTO M270 Grade 50.

The test pile(s) shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

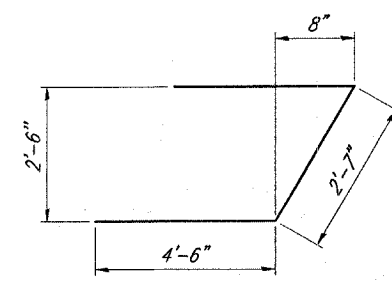
SECTION THRU ABUTMENT
(At Right Angles)



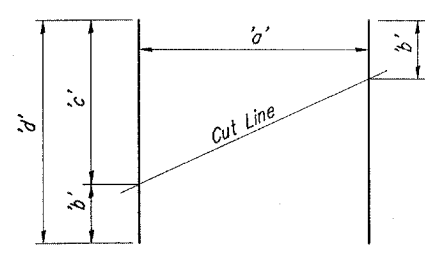
BARS s(E) thru s3(E)



BARS s4(E) & s5(E)



BAR u(E)



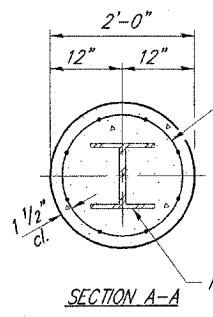
v2(E) thru v5(E) FIELD CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face.

Bar	a'	b'	c'	d'
v2(E)	6	4'-2"	6'-2"	10'-4"
v3(E)	6	3'-9"	5'-8"	9'-5"
v4(E)	6	3'-7"	5'-7"	9'-2"
v5(E)	6	4'-5"	6'-4"	10'-9"

BILL OF MATERIAL - 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	76	#4	7'-6"	—
h1(E)	48	#4	16'-0"	—
p(E)	48	#7	24'-9"	—
s(E)	28	#5	7'-4"	□
s1(E)	60	#5	7'-8"	□
s2(E)	32	#5	8'-0"	□
s3(E)	64	#5	7'-0"	□
s4(E)	4	#5	7'-1"	□
s5(E)	4	#5	7'-11"	□
u(E)	16	#6	11'-7"	└
v1(E)	184	#4	4'-8"	—
v2(E)	6	#4	10'-4"	—
v3(E)	6	#4	9'-5"	—
v4(E)	6	#4	9'-2"	—
v5(E)	6	#4	10'-9"	—
Concrete Structures		Cu. Yd.	44.2	
Reinforcement Bars, Epoxy Coated		Pound	5820	
Structure Excavation		Cu. Yd.	110	
Furnishing Steel Piles HP 12x53		Foot	456	
Driving Piles		Foot	456	
Test Piles, Steel HP 12x53		Each	2	
Pile Shoes		Each	14	
Concrete Encasement		Cu. Yd.	4.9	
Concrete Sealer		Sq. Ft.	680	



Welded wire fabric 6 x 6-WA.0 x WA.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

PILE ENCASUREMENT DETAIL

REVISION

DATE

Hanson No. 08P2008
 Filename: PILE-BENT-DETLING
 Scale: 04/06/07
 Date: 04/06/07

LAYOUT: 10/12/06
 DRAWN: EJM
 REVIEWED: JJT

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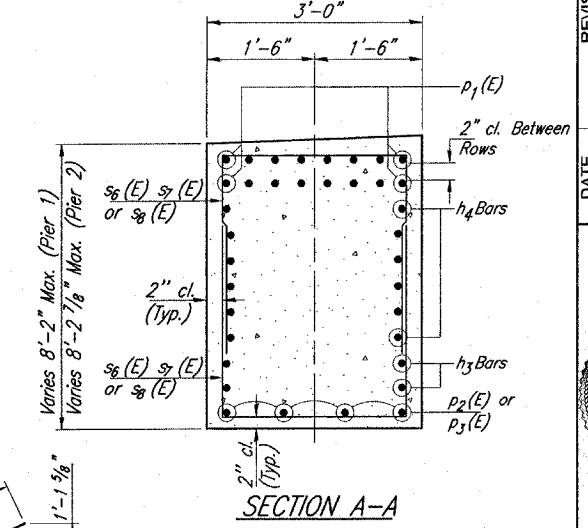
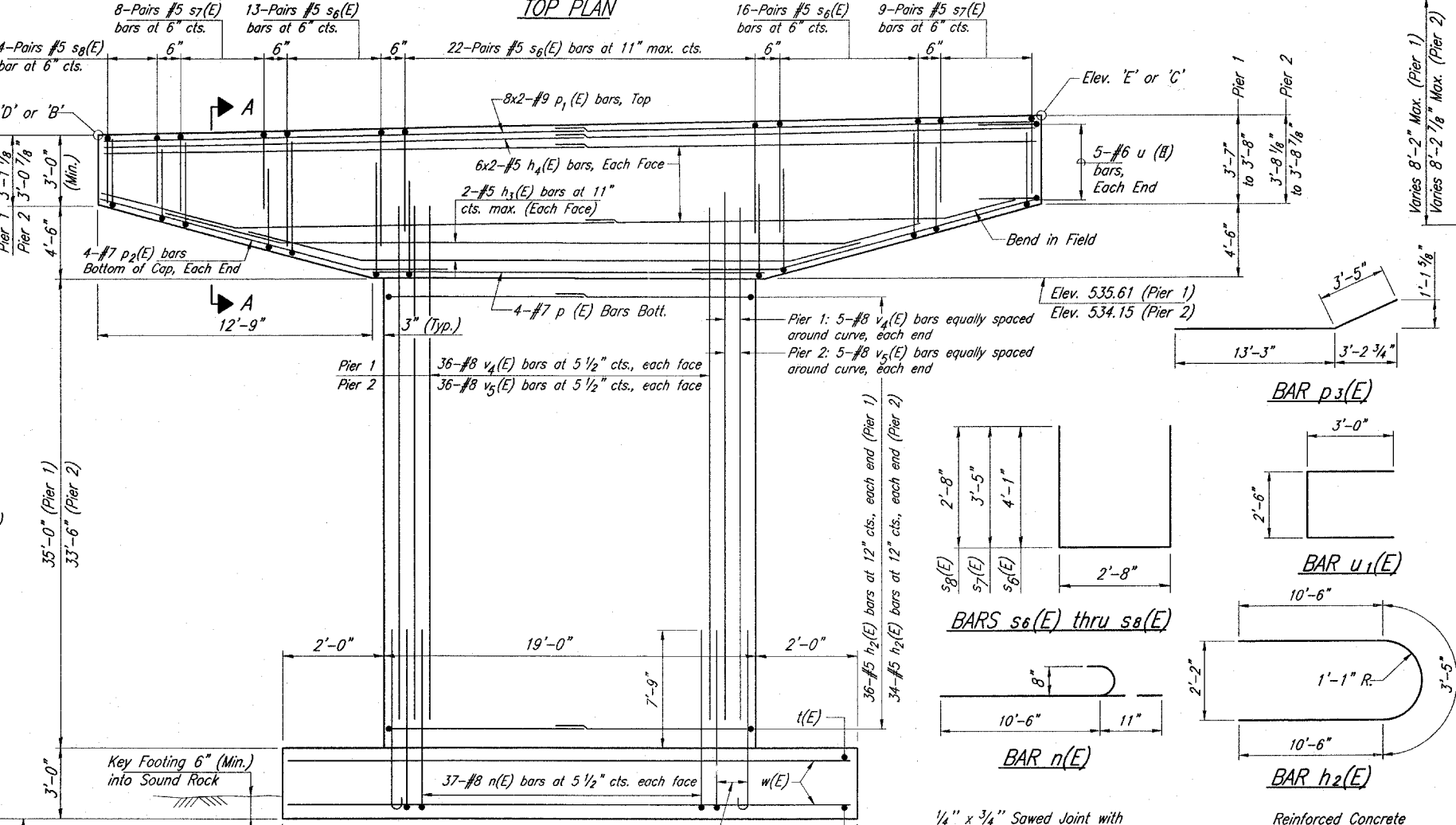
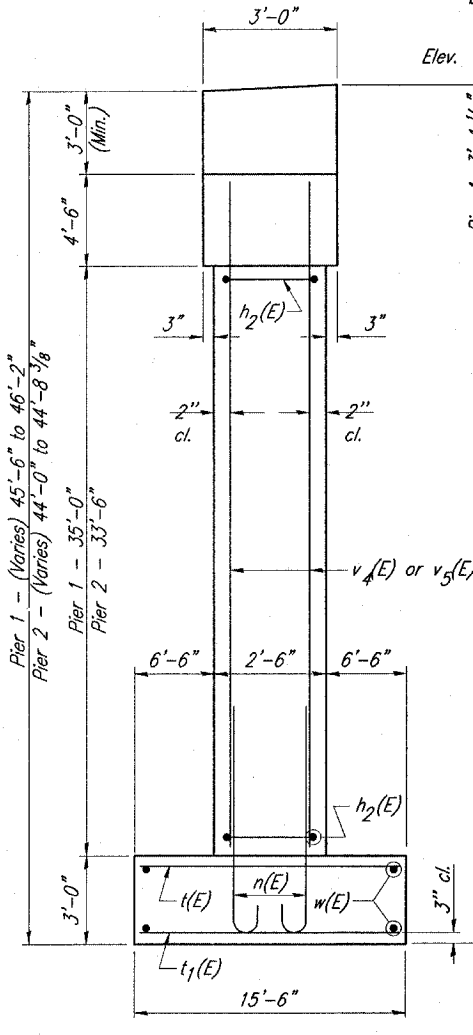
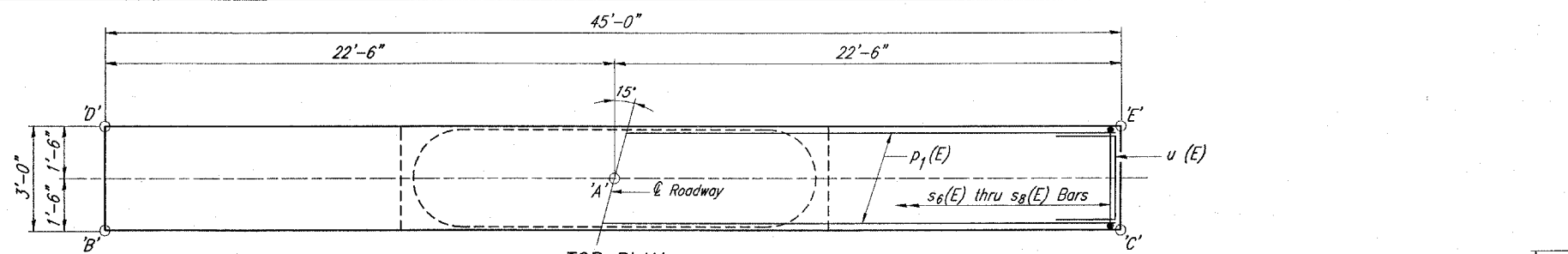
PILE BENT ABUTMENTS DETAILS

LANCASTER RD. OVER LAMARSH CREEK
 STRUCTURE NO. 072-3145
 PEORIA COUNTY, ILLINOIS

APR 05, 2007 6:41 PM CAL
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BEARING SEAT ELEVATIONS

Point	Pier 1	Pier 2
A'	543.44	542.02
B'	543.20	541.72
C'	543.78	542.39
D'	543.11	541.65
E'	543.70	542.33



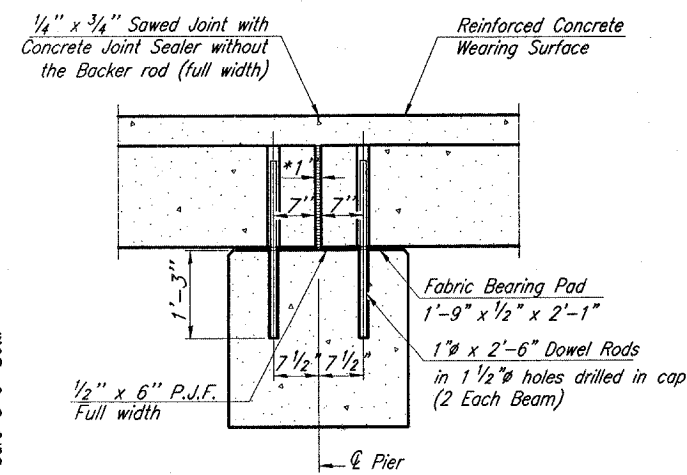
BILL OF MATERIAL - 2 PIERS

Bar	No.	Size	Length	Shape
h ₂ (E)	144	#5	24'-5"	U
h ₃ (E)	12	#5	28'-8"	U
h ₄ (E)	48	#5	23'-7"	U
n(E)	168	#8	11'-5"	U
p ₁ (E)	64	#9	25'-8"	U
p ₂ (E)	8	#7	19'-5"	U
p ₃ (E)	8	#7	16'-8"	U
s ₆ (E)	204	#5	12'-6"	U
s ₇ (E)	68	#5	9'-6"	U
s ₈ (E)	16	#5	8'-0"	U
t ₁ (E)	48	#5	15'-0"	U
t ₁ (E)	70	#9	15'-0"	U
u ₁ (E)	20	#6	8'-6"	U
v ₄ (E)	84	#8	39'-0"	U
v ₅ (E)	84	#8	37'-6"	U
w(E)	74	#5	22'-6"	U
Structure Excavation			Cu. Yd.	314
Rock Excavation For Structures			Cu. Yd.	26.4
Concrete Structures			Cu. Yd.	263.7
Reinforcement Bars, Epoxy Coated			Pound	43440
Concrete Sealer			Sq. Ft.	1494

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

MIN. BAR LAPS

- #5 Bars = 1'-8"
- #6 Bars = 2'-0"
- #7 Bars = 2'-9"
- #8 Bars = 3'-8"
- #9 Bars = 4'-7"



SECTION THRU FIXED PIER (At Rt Angles)

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

Maximum Bearing Pressure = 8400 p.s.f

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REVISION

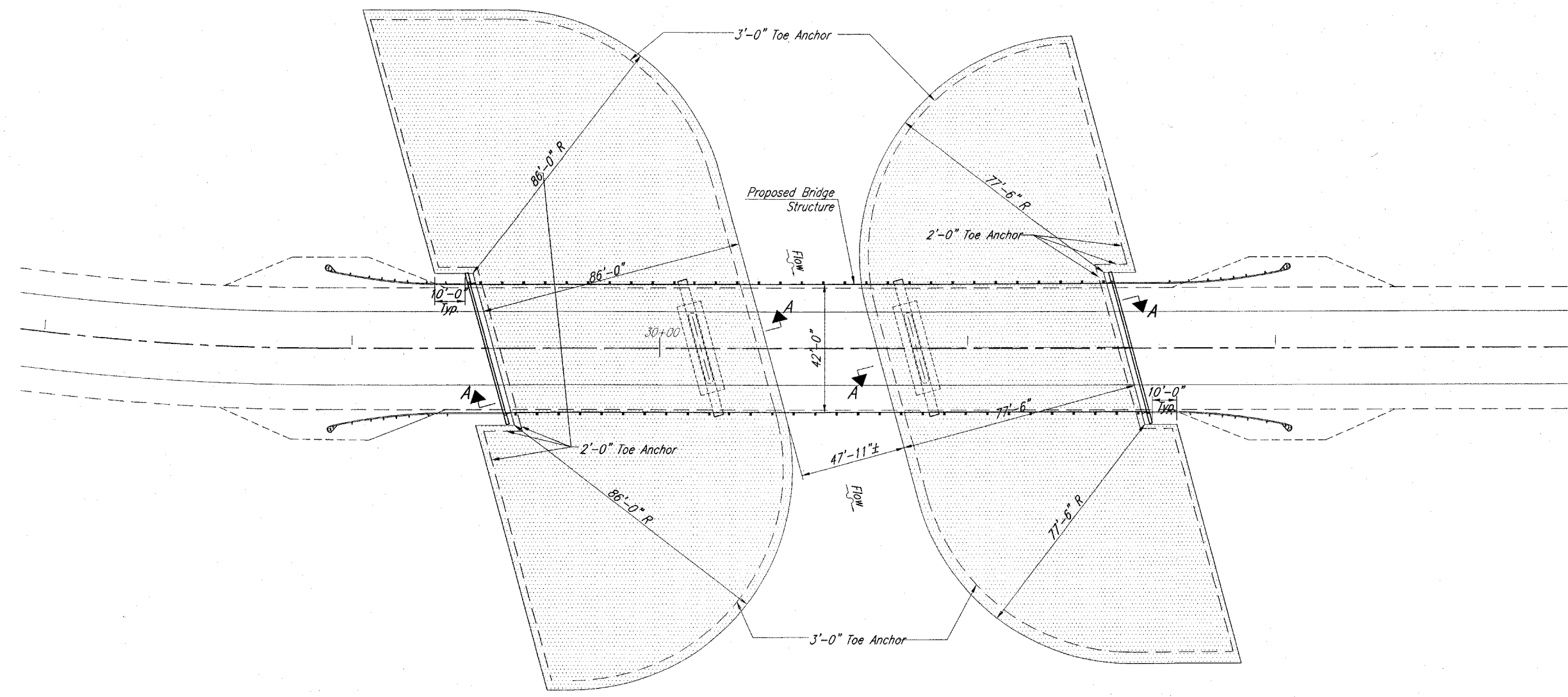
DATE

NO.	DATE	BY	CHKD.
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2	01/10/07	RAH	JUT
3	01/16/07	JUT	

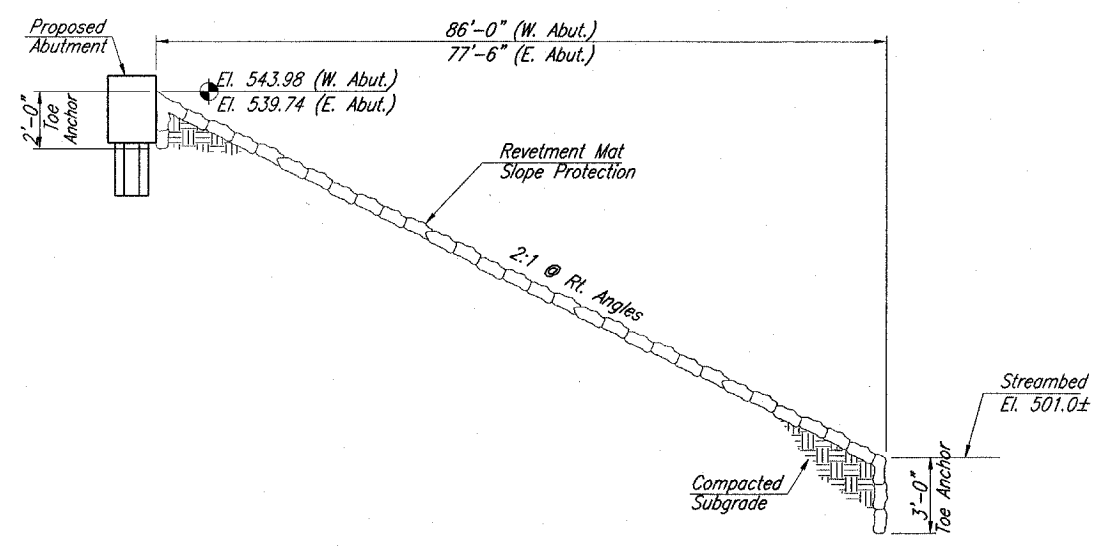
Hanson No. 06P2008
 Elaborate P-2.DWG
 Scale Date

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LANCASTER RD. OVER LAMARSH CREEK
 STRUCTURE NO. 072-3145
 PEORIA COUNTY, ILLINOIS



PLAN - REVETMENT MAT SLOPE PROTECTION
(8" Filter Point)



SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Fabric Formed Concrete Revetment Mat	Sq. Yd.	4404

NOTES:

This work shall be done in accordance with Section 285 of the Standard Specifications.

Locate field sewn joints midway between mortar stops. Lay seams down for best appearance.

Prior to grout injection, the fabric shall be positioned at its design location. Each panel shall be a continuous or monolithic unit for its full width, including the trench portion.


After grouting has been completed, the void between trench wall and filled fabric shall be backfilled.

Holes in the fabric left by the removal of the grout hose or inserts shall be temporarily closed by inserting a piece of burlap or similar material. The burlap shall be removed when the mortar is no longer fluid and the surface is firm to hand pressure.

As determined necessary by the engineer, placement of the revetment mat may be varied to match existing conditions.

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REVISION	DATE	DESCRIPTION



Hanson No. 06F2008
Description: REVETMENT MAT.DWG
Scale: 1"=10'-0"
Date: 04/06/07

LAYOUT	TWZ	10/17/06
DRAWN	DLC	11/21/06
REVIEWED	JJT	01/16/07

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REVETMENT MAT
SLOPE PROTECTION
LANCASTER RD. OVER LAMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS

31
31 of 99 sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	32
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				

Sheet 1 of 6

SUMMARY OF QUANTITIES:

ITEM	UNIT	QTY
TRENCH BACKFILL	CY	48
WATER MAIN 4"	LF	30
WATER MAIN 8"	LF	3222
DUCTILE IRON WATER MAIN 8"	LF	80
TAPPING VALVES AND SLEEVES 4"	EA	2
FIRE HYDRANTS TO BE REMOVED	EA	1
FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EA	3
CUT AND CAP EXISTING WATER MAIN	EA	2
GATE VALVES, 8"	EA	3
WATER SERVICE CONNECTION SHORT	EA	4
DUCTILE IRON FITTINGS AND ACCESSORIES	LBS	1167
WATER SERVICE CONNECTION LONG	EA	6
METER SET COMPLETE	EA	2

PROPOSED LEGEND

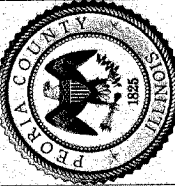
- v — BURIED WATER
- ⊕ WATER VALVE
- α FIRE HYDRANT

GENERAL NOTES

- IN ACCORDANCE WITH STATE OF ILLINOIS STATUTE 220 ILCS 50, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSION OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
1-800-892-0123

- IN ADDITION TO THE REQUIREMENTS OF SECTIONS 5-5 AND 20-2.16 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL, PRIOR TO STARTING EXCAVATION, ASCERTAIN FROM ALL LOCAL UTILITIES, ESPECIALLY GAS AND WATER, THE EXACT LOCATIONS OF ALL MAINS AND BUILDING SERVICES IN THE AREA OF OPERATIONS, WHETHER SUCH ARE INDICATED ON THE PLANS OR NOT. ANY SUCH MAINS AND SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED. WHENEVER POSSIBLE, BUILDING OWNERS OR OCCUPANTS SHALL BE NOTIFIED IN ADVANCE IF THEIR UTILITY SERVICE IS TO BE DISCONNECTED AND NO BUILDING SHALL BE LEFT WITHOUT SERVICE OVERNIGHT.
- THE WATER MAIN WITH APPURTENANCES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, "FIFTH EDITION", DATED MAY 1996 (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS") AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AS APPLICABLE.
- ALL MATERIALS SHALL BE APPROVED BY THE PLEASANT VALLEY PUBLIC WATER DISTRICT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING WATER MAIN TO VERIFY THE ALIGNMENT OF THE PROPOSED WATER MAIN. THE OFFSETS FROM THE EXISTING AND PROPOSED WATER MAIN SHALL BE MAINTAINED. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING WATER MAIN DURING LOCATION VERIFICATION.
- THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME, PUBLIC OR PRIVATE PROPERTY IS DAMAGED OR DESTROYED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.
- ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- MINIMUM COVER OVER WATER MAINS SHALL BE 54 IN.
- ALL EXCESS EARTH FROM THE TRENCHES SHALL BE DISPOSED OF BY THE CONTRACTOR OFFSITE. DISPOSING OF EXCESS EARTH SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE WATER MAIN.
- ALL EXISTING VALVES AND BOXES REMOVED FOR THE INSTALLATION OF THE PROPOSED WATER MAIN SHALL BE STOCK PILED IN ONE LOCATION FOR THE PLEASANT VALLEY PUBLIC WATER DISTRICT. ALL VALVES ON THE ABANDONED PVC WATER MAIN THAT ARE REMAINING IN PLACE SHALL HAVE THE VALVE BOX REMOVED AND THE HOLE BACKFILLED. WORK IS INCIDENTAL TO THE WATER MAIN INSTALLATION.
- CONTRACTOR TO COORDINATE WITH THE PLEASANT VALLEY WATER DISTRICT PRIOR TO TAKING THE EXISTING MAIN OUT OF SERVICE. ANY ADDITIONAL FITTINGS NECESSARY TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING THAT ARE NOT SHOWN SHALL BE CONSIDERED INCIDENTAL TO THE COST OF INSTALLING THE WATER MAIN.
- WATER MAIN SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, AND FIELD TILES IN ACCORDANCE WITH SECTIONS 41-2.01B AND 41-2.01C.

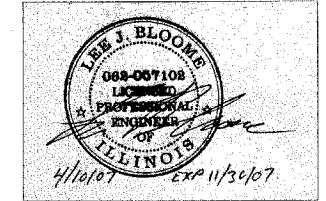


Hanson No. 06P2008	DATE	04/06/07
Drawn	DATE	04/05/07
Checked	DATE	04/05/07
Reviewed	DATE	04/05/07

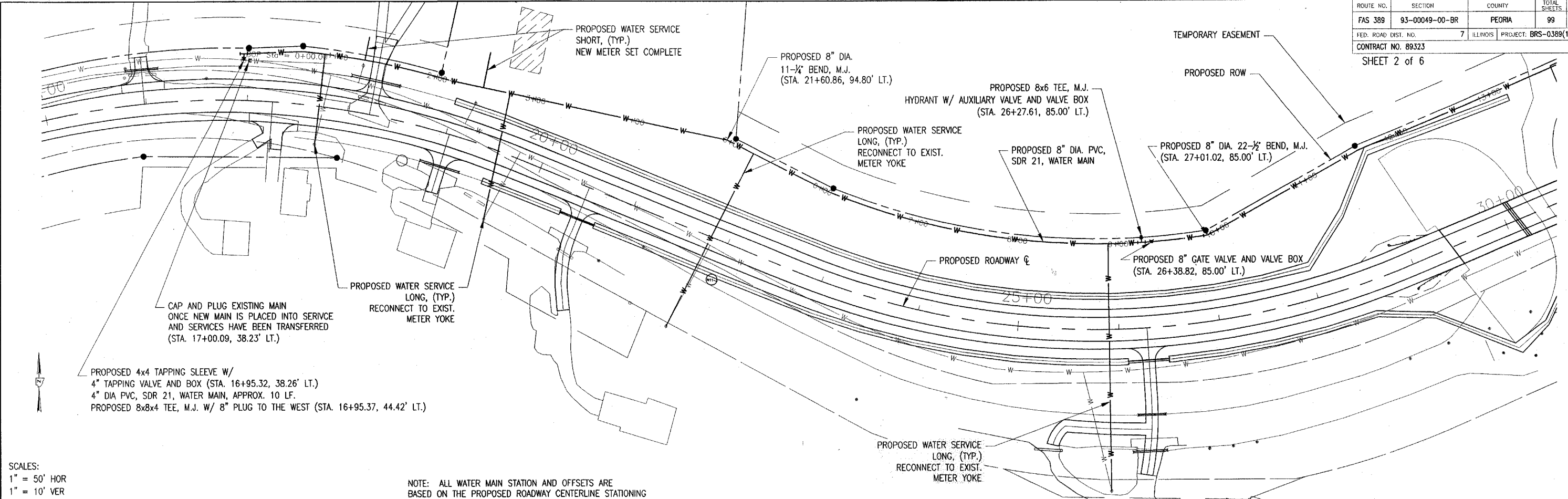
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WATER MAIN RELOCATION
LANCATER RD. OVER LAMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	33
FED. ROAD DIST. NO.	7 ILLINOIS		PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				
SHEET 2 of 6				



CAP AND PLUG EXISTING MAIN
ONCE NEW MAIN IS PLACED INTO SERVICE
AND SERVICES HAVE BEEN TRANSFERRED
(STA. 17+00.09, 38.23' LT.)

PROPOSED 4x4 TAPPING SLEEVE W/
4" TAPPING VALVE AND BOX (STA. 16+95.32, 38.26' LT.)
4" DIA PVC, SDR 21, WATER MAIN, APPROX. 10 LF.
PROPOSED 8x8x4 TEE, M.J. W/ 8" PLUG TO THE WEST (STA. 16+95.37, 44.42' LT.)

PROPOSED WATER SERVICE
SHORT, (TYP.)
NEW METER SET COMPLETE

PROPOSED 8" DIA.
11-1/4" BEND, M.J.
(STA. 21+60.86, 94.80' LT.)

PROPOSED WATER SERVICE
LONG, (TYP.)
RECONNECT TO EXIST.
METER YOKE

PROPOSED 8x6 TEE, M.J.
HYDRANT W/ AUXILIARY VALVE AND VALVE BOX
(STA. 26+27.61, 85.00' LT.)

PROPOSED 8" DIA. PVC,
SDR 21, WATER MAIN

PROPOSED 8" DIA. 22-1/2" BEND, M.J.
(STA. 27+01.02, 85.00' LT.)

PROPOSED 8" GATE VALVE AND VALVE BOX
(STA. 26+38.82, 85.00' LT.)

PROPOSED WATER SERVICE
LONG, (TYP.)
RECONNECT TO EXIST.
METER YOKE

SCALES:
1" = 50' HOR
1" = 10' VER

NOTE: ALL WATER MAIN STATION AND OFFSETS ARE
BASED ON THE PROPOSED ROADWAY CENTERLINE STATIONING

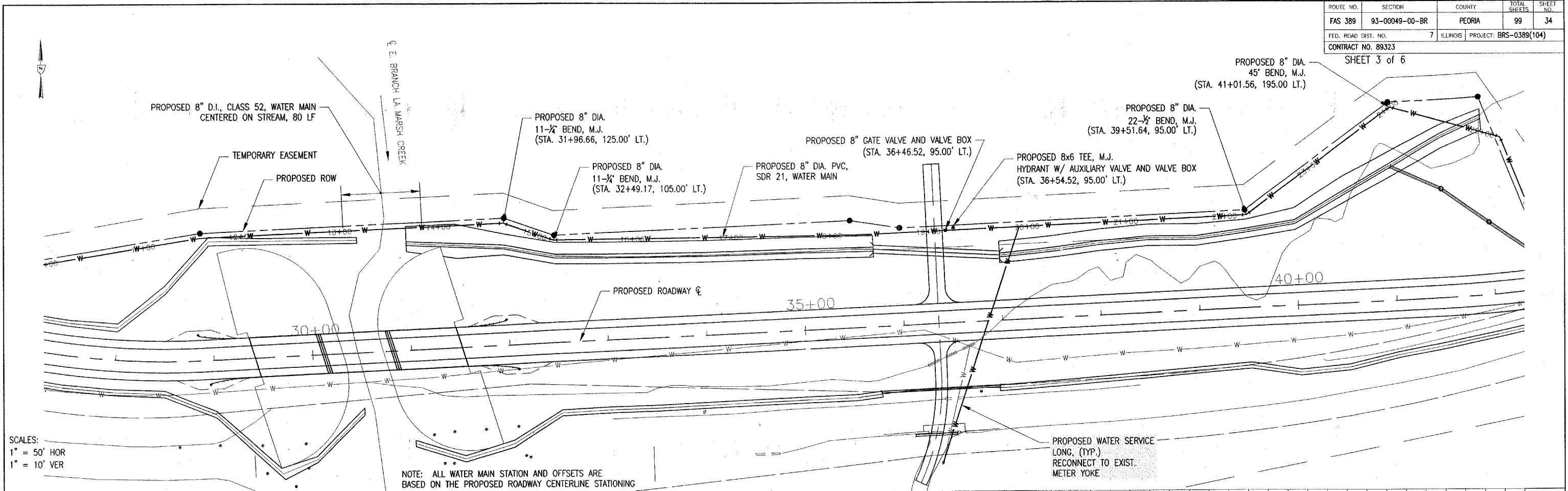


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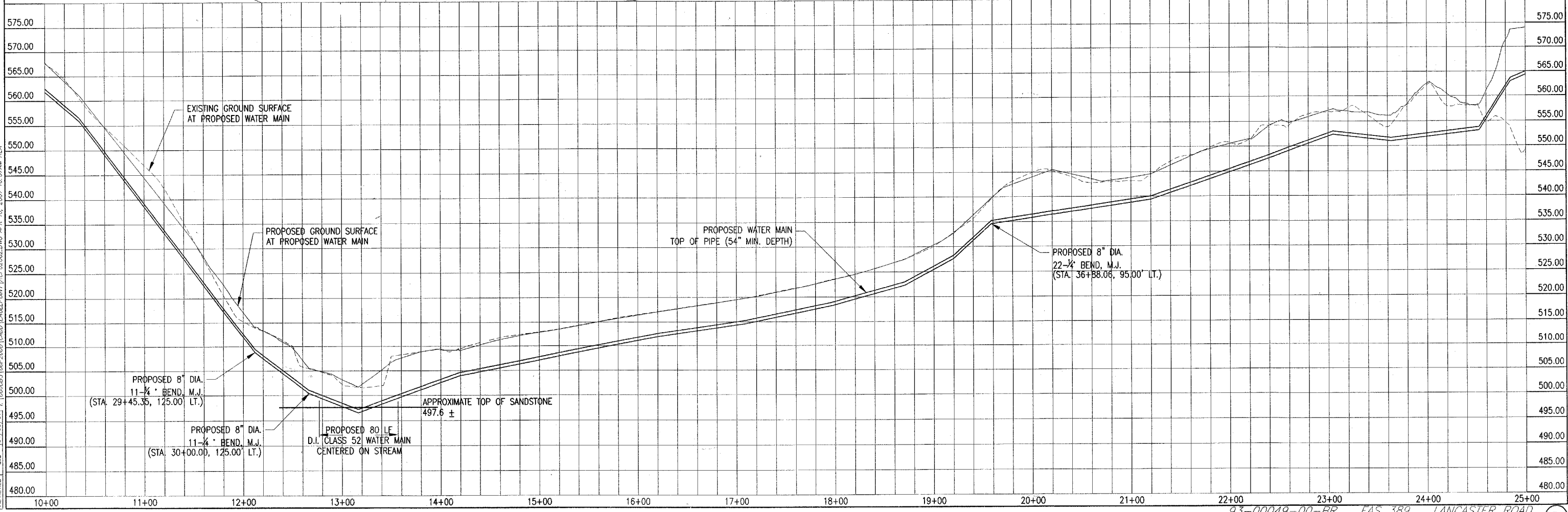
LAYOUT: RLA 04/04/07
DRAWN: RLA 04/04/07
REVIEWED: LUB 04/05/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	34
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				

SHEET 3 of 6



SCALES:
1" = 50' HOR
1" = 10' VER

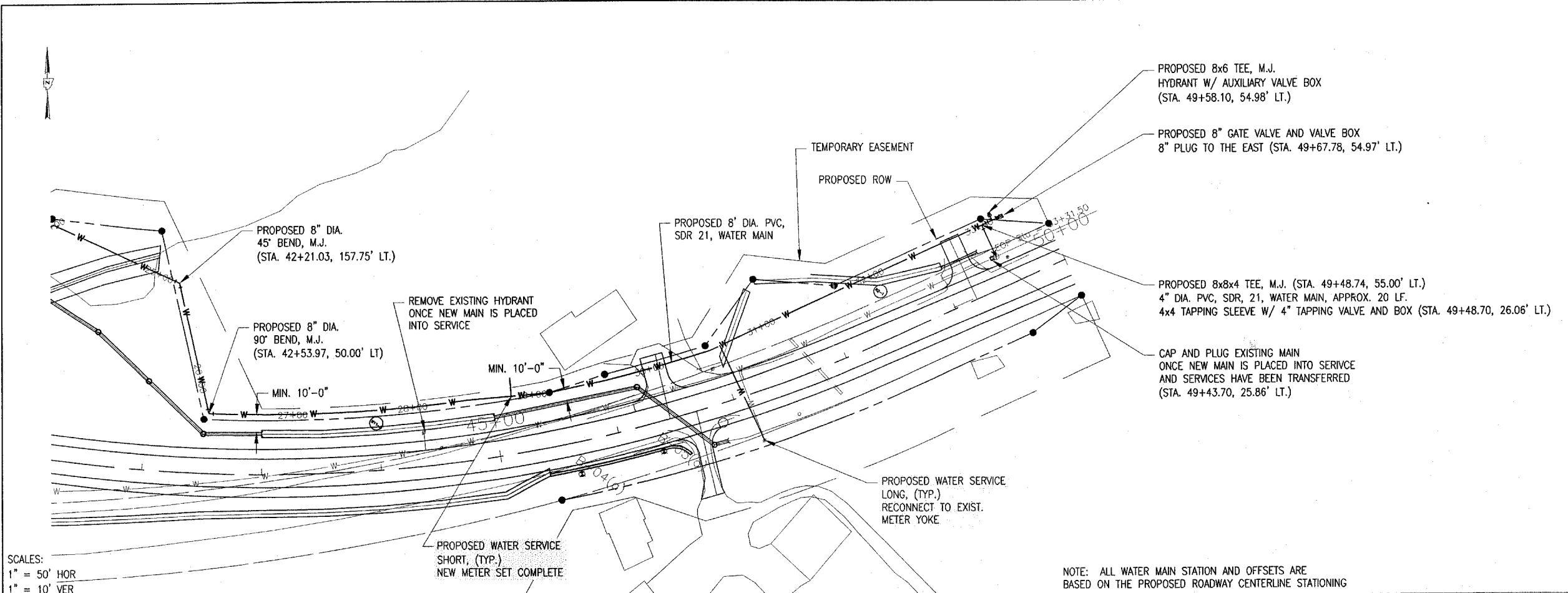


LAYOUT R/A 04/04/07
 DRAWN R/A 04/04/07
 CHECKED LUB 04/05/07
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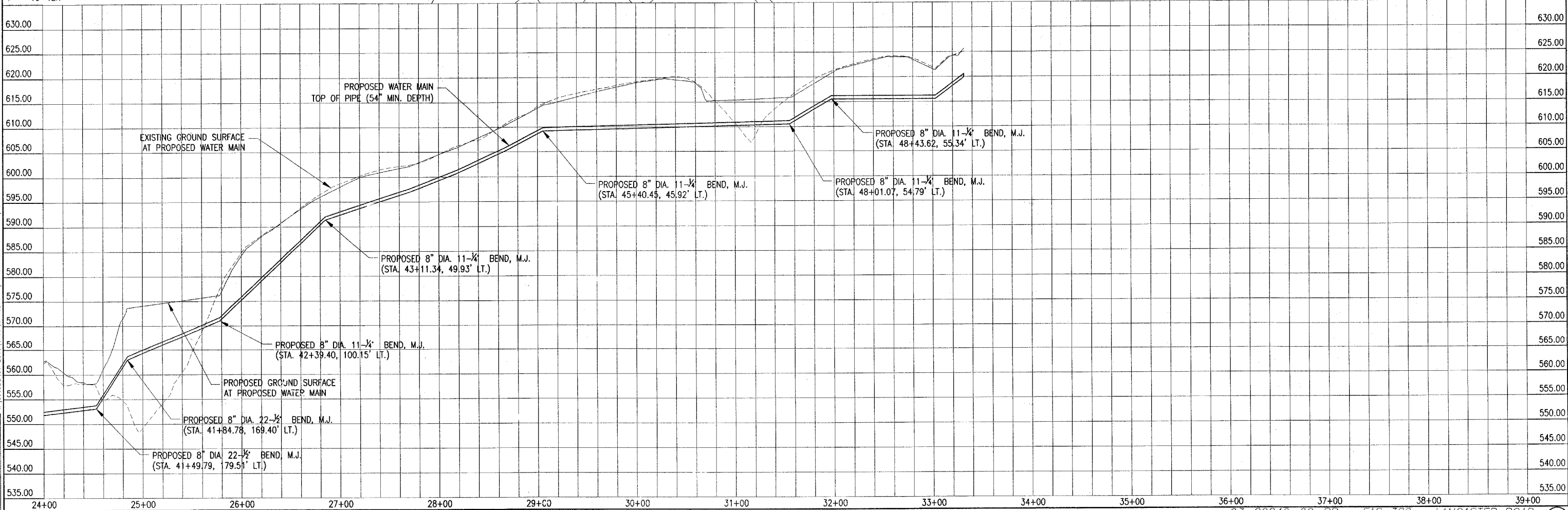
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FAS 389	93-00049-00-BR	PEORIA	99	35
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				
SHEET 4 of 6				



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SCALES:
1" = 50' HOR
1" = 10' VER

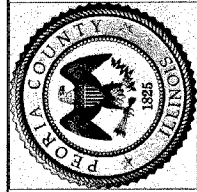


LAYOUT	RLA	04/04/07
DRAWN	RLA	04/04/07
REVIEWED	LIB	04/05/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	36
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				

SHEET 5 of 6

REVISION	DATE

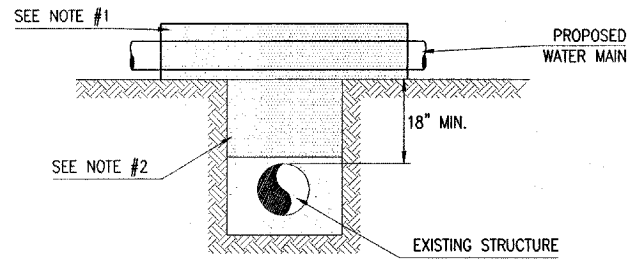


Hanson No. 06P2008	DATE	04/05/07
FILENAME WATER_DET_1.DWG	SCALE	04/06/07
LAYOUT	DATE	04/05/07
DRAWN	DATE	04/05/07
REVIEWED	DATE	04/05/07

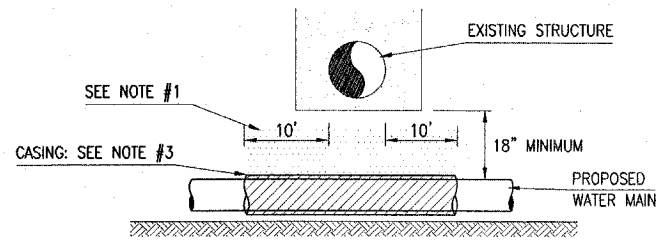
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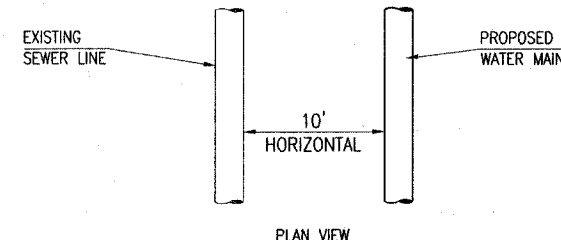
WATER MAIN DETAILS
 LANCASTER RD. OVER LAMARSH CREEK
 STRUCTURE NO. 072-3145
 PEORIA COUNTY, ILLINOIS



PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.



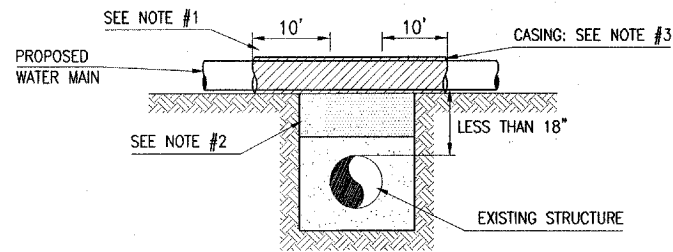
PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.



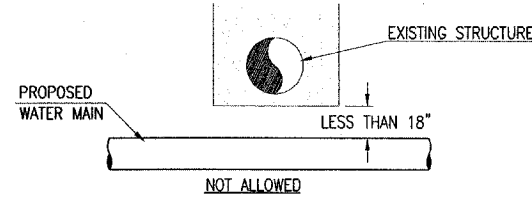
PROPOSED WATER MAIN IS LOCATED 10' OR MORE FROM EXISTING SEWER LINE.

NOTES:

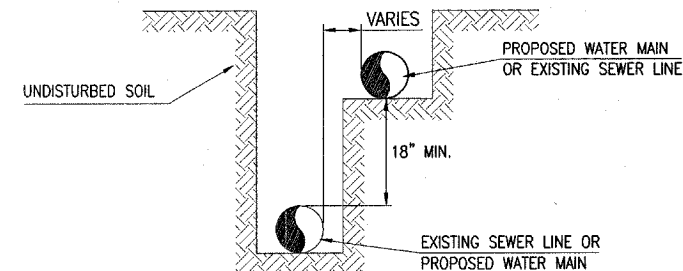
- OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
- IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
- USE A CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING. SEE CONSTRUCTION SPECIFICATIONS.
- ALL MATERIALS SHALL BE COMPACTED TO THE REQUIREMENTS OF THE SSRBC.
- POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT FOR EXISTING STRUCTURES USING TECHNIQUES APPROVED BY IDOT TO PREVENT DAMAGE DUE TO SETTLEMENT OF THE TRENCH.
- TOP SOIL AND SEED LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD AT THE TIME OF CONSTRUCTION.
- FAS MATERIAL SHALL BE USED FOR BEDDING, HAUNCHING, AND BACKFILL. THE COST OF THIS MATERIAL SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE UNIT COST OF WATER MAIN INSTALLATION.



PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.



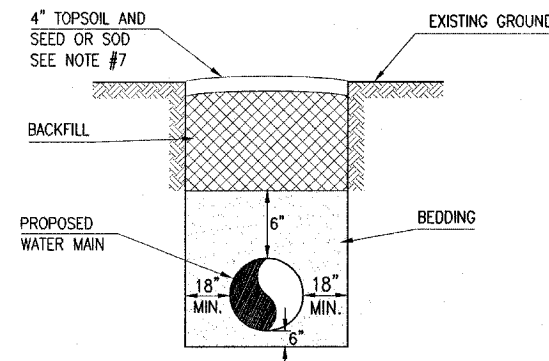
MUST MAINTAIN 18" VERTICAL SEPARATION
 PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.



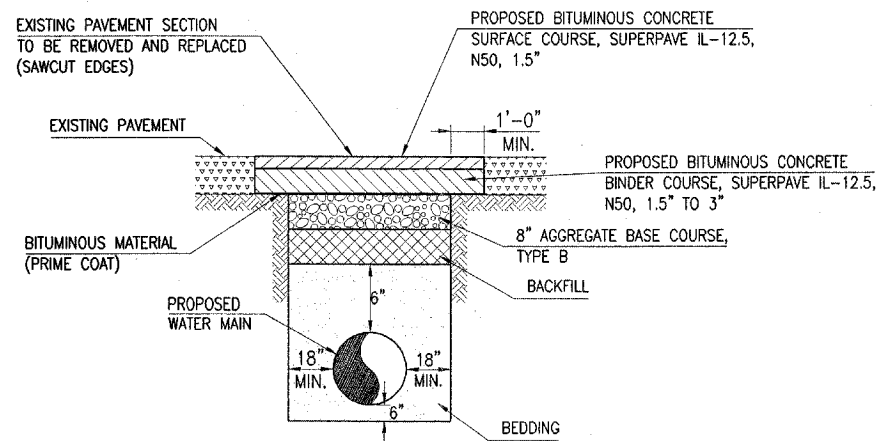
PROPOSED WATER MAIN IS LOCATED LESS THAN 10' FROM EXISTING SEWER LINE.

WATER AND SEWER SEPARATION REQUIREMENTS
 (VERTICAL SEPARATION)

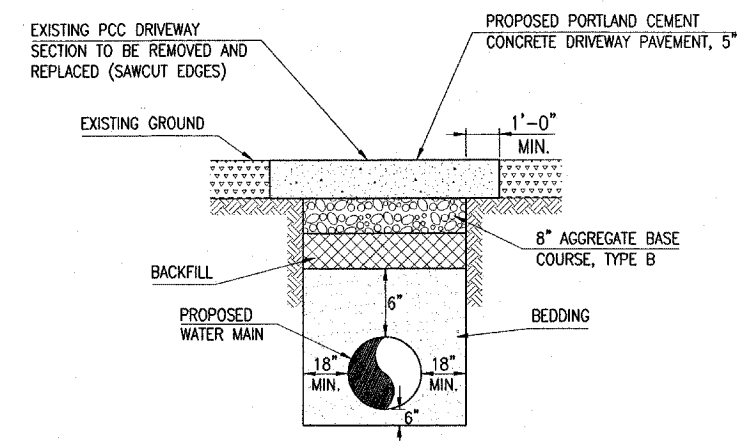
WATER AND SEWER SEPARATION REQUIREMENTS
 (HORIZONTAL SEPARATION)



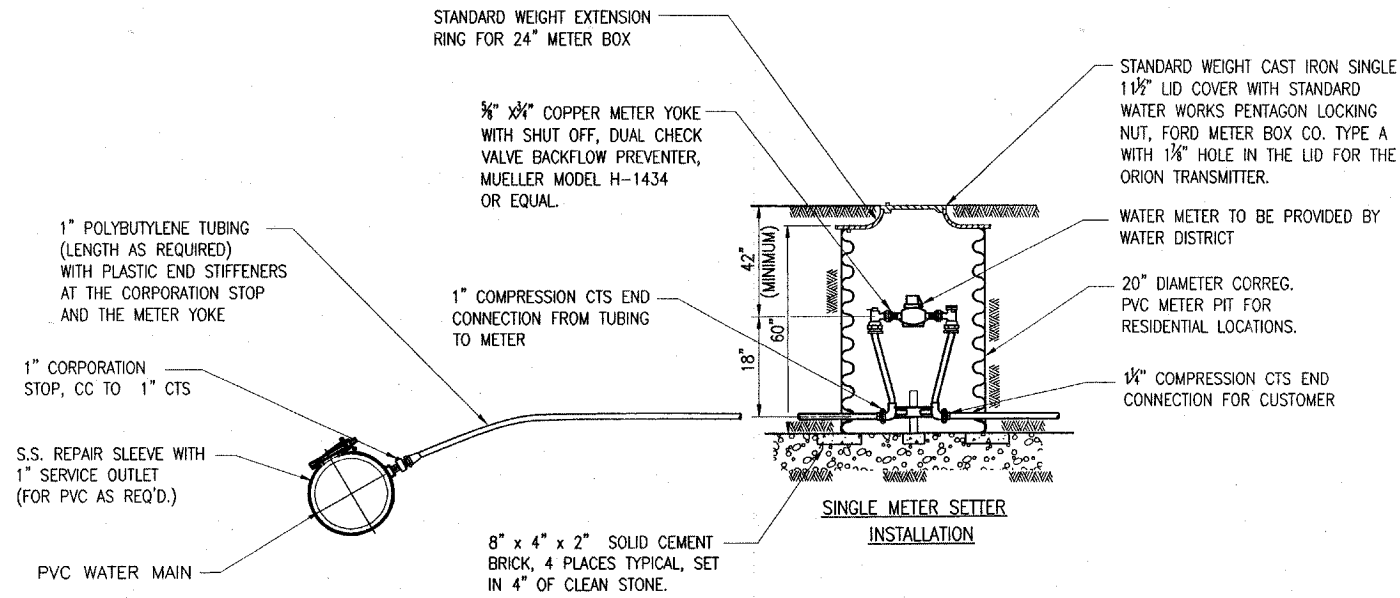
TRENCH SECTION IN UNPAVED AREAS



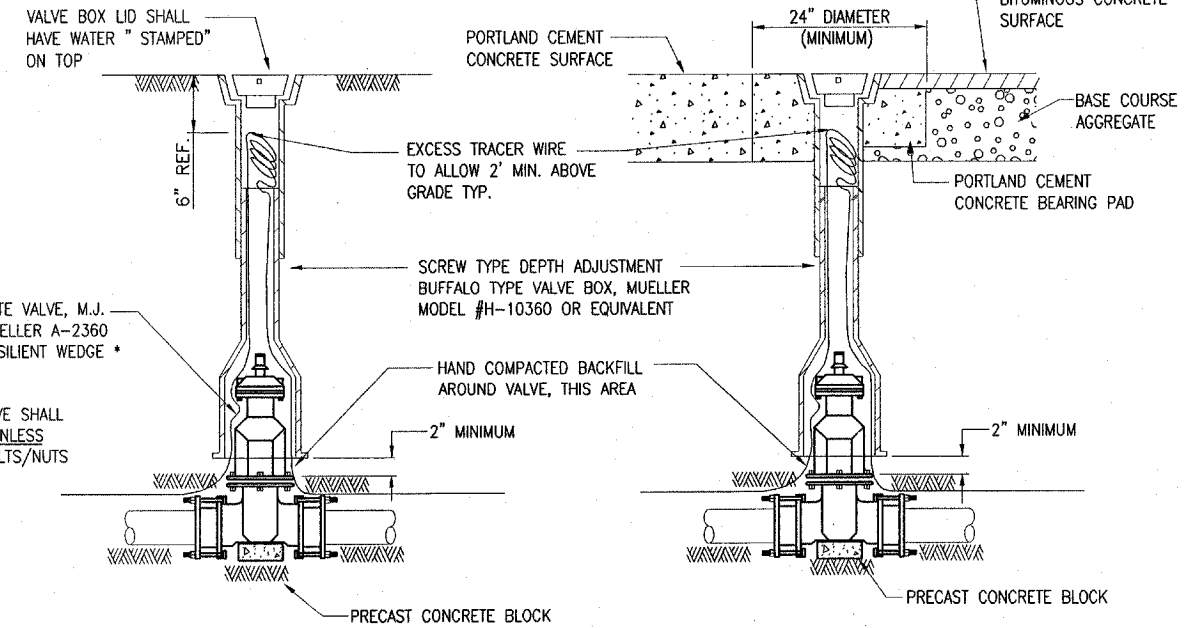
TRENCH SECTION IN PAVED AREAS



TRENCH SECTION IN PCC DRIVEWAY

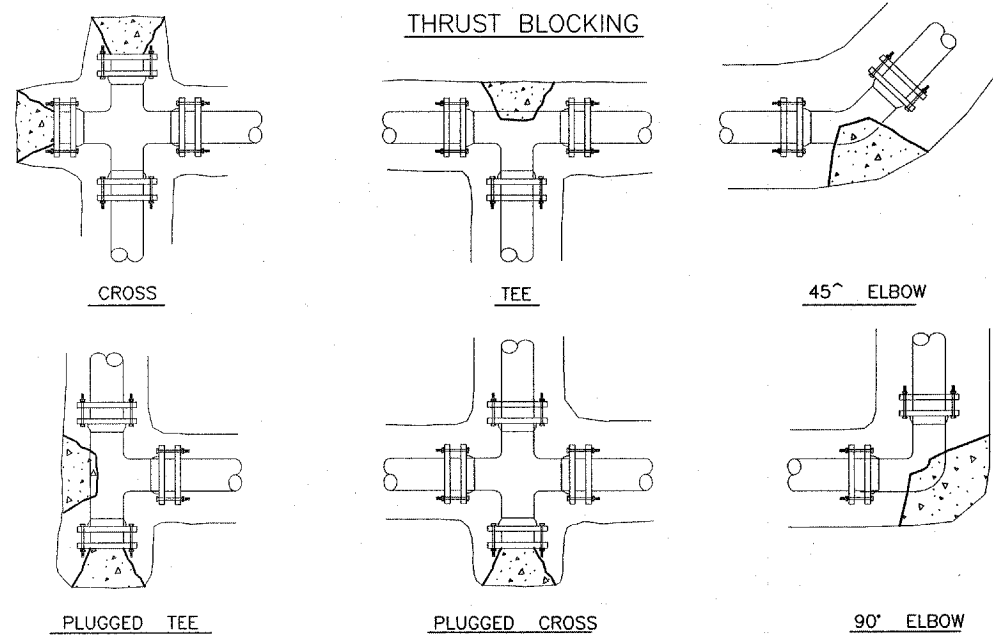


WATER SERVICE AND METER DETAIL



VALVE BOX INSTALLATION

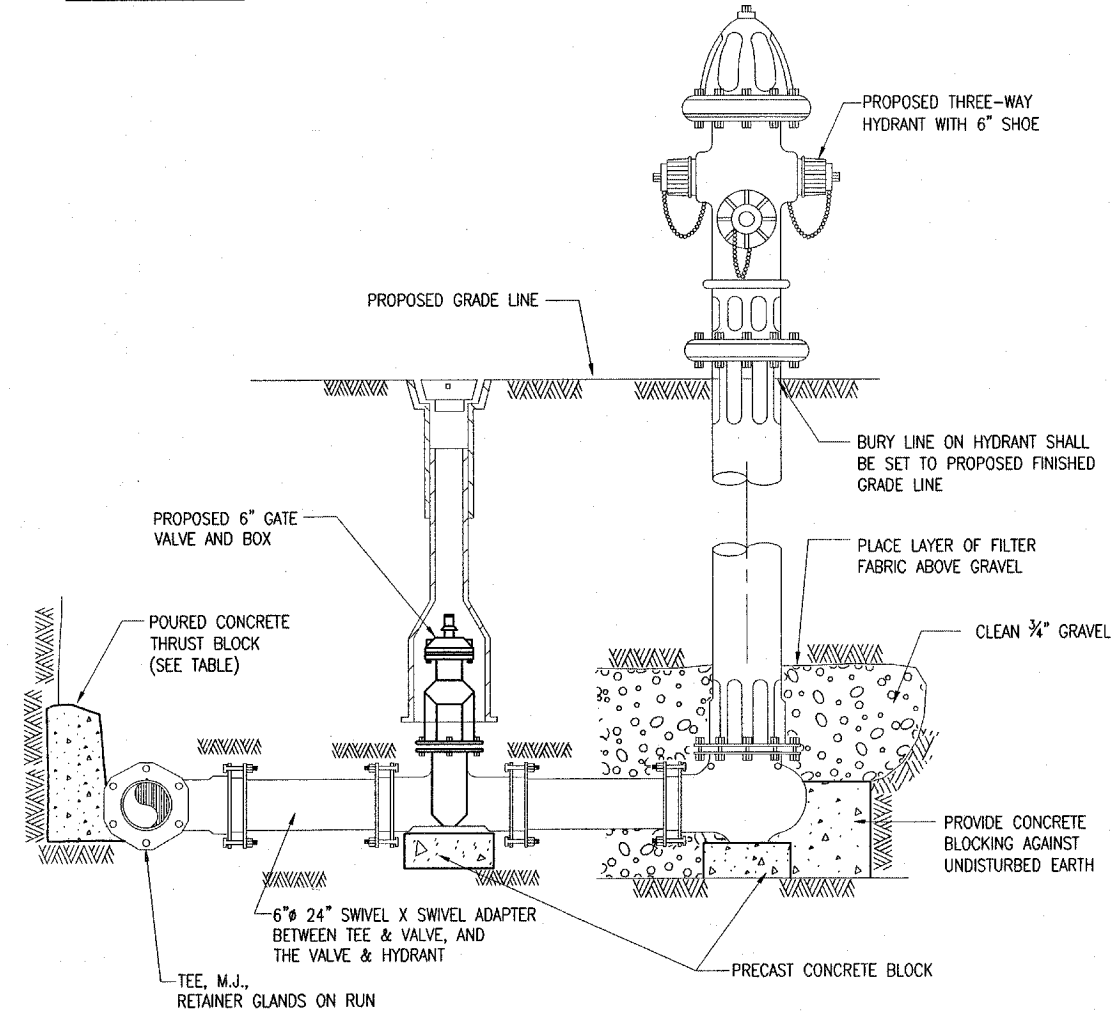
VALVE BOX INSTALLATION IN PERMANENT SURFACE ROADWAYS



BEARING AREA OF THRUST BLOCKS	
PLUG, TEE, 45°, 22 1/2°, 11 1/4°	
WATER MAIN	BLOCKS
4"	1.7 SF
6"	3.4 SF
8"	5.8 SF
10"	8.7 SF

BEARING AREA OF THRUST BLOCKS	
90°	
WATER MAIN	BLOCKS
4"	2.3 SF
6"	4.8 SF
8"	8.2 SF
10"	12.4 SF

NOTE :
BOTH THRUST BLOCKING AND RETAINER GLANDS WILL BE USED ON ALL FITTINGS. AS NOTED IN SPECIFICATIONS, NO EXTRA COMPENSATION WILL BE ALLOWED.



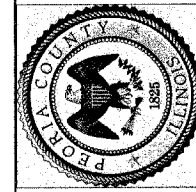
HYDRANT AUXILIARY VALVE AND BOX INSTALLATION

- * ALL BLOCKS TO BE CLASS SI CONCRETE (3500 PSI / 14 DAYS)
- * MINIMUM BEARING AREA (SEE CHART)
- * ASSUMES 2000 PSI BEARING FOOTING
- * CONTRACTOR RESPONSIBLE FOR ACTUAL SOIL CONDITION AND THRUST BLOCK ADEQUACY
- * 4" W.M. SHALL HAVE A MIN. OF 0.10 C.Y. OF CONCRETE
- * 6" W.M. SHALL HAVE A MIN. OF 0.20 C.Y. OF CONCRETE
- * 8" W.M. SHALL HAVE A MIN. OF 0.30 C.Y. OF CONCRETE
- * 10" W.M. SHALL HAVE A MIN. OF 0.46 C.Y. OF CONCRETE
- * ALL VERTICAL FITTINGS SHALL BE RODDED TOGETHER MIN 2" RODS.

- * ALL BLOCKS SHALL BE A MINIMUM OF 12" THICK, PLACED BETWEEN SOLID GROUND AND THE FITTINGS, AND SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIRS. PLASTIC SHEETING (3 MIL POLYETHYLENE) SHALL BE LAID BETWEEN CONCRETE AND FITTING.
- * RETAINER GLANDS SHALL BE USED IN CONJUNCTION WITH THRUST BLOCKING. (SEE SPECIFICATIONS FOR TABLE)
- * MINIMUM TEST PRESSURE = 150 PSI.

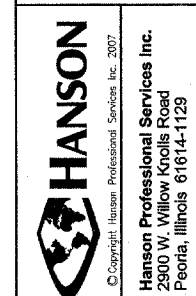
- * VERTICAL TIE DOWN WITH CONCRETE.
 - MINIMUM 1/2" REBAR WITH 18" MIN. EMBEDMENT.
 - AT PLUG, TEE, & 45° BEND FOR 8" PIPE, MINIMUM OF 78.0 C.F.
 - AT 90° BEND FOR 8" PIPE, MINIMUM OF 109.3 C.F.

REVISION	DATE



Hanson No.	06P2008	Scale	DATE	REVIEWED
Plan Name	WATER DET 2.DWG.	Scale	DATE	REVIEWED
LAYOUT	RLA	DATE	04/05/07	
DRAWN	RLA	DATE	04/05/07	
REVIEWED	LJB	DATE	04/05/07	

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LANCATER RD. OVER LANARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS

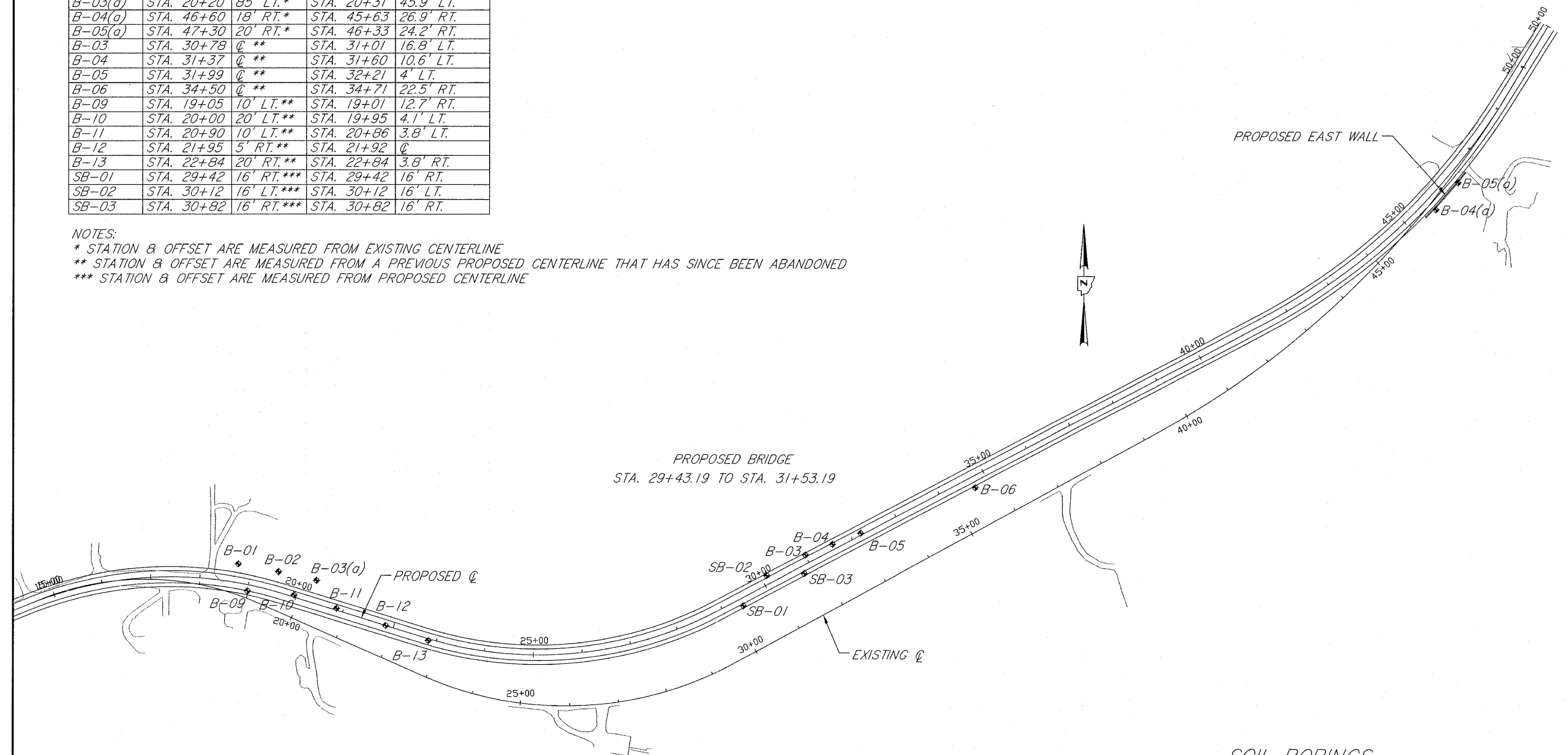
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	38
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

SHEET 1 OF 13

BORING LOCATIONS


BORING ID	AS LISTED		MEASURED FROM PROPOSED	
	LOCATION	OFFSET	LOCATION	OFFSET
B-01	STA. 18+65	60' LT.*	STA. 18+73	37.1' LT.
B-02	STA. 19+40	75' LT.*	STA. 19+52	39.8' LT.
B-03(a)	STA. 20+20	85' LT.*	STA. 20+31	45.9' LT.
B-04(a)	STA. 46+60	18' RT.*	STA. 45+63	26.9' RT.
B-05(a)	STA. 47+30	20' RT.*	STA. 46+33	24.2' RT.
B-03	STA. 30+78	Q **	STA. 31+01	16.8' LT.
B-04	STA. 31+37	Q **	STA. 31+60	10.6' LT.
B-05	STA. 31+99	Q **	STA. 32+21	4' LT.
B-06	STA. 34+50	Q **	STA. 34+71	22.5' RT.
B-09	STA. 19+05	10' LT.**	STA. 19+01	12.7' RT.
B-10	STA. 20+00	20' LT.**	STA. 19+95	4.1' LT.
B-11	STA. 20+90	10' LT.**	STA. 20+86	3.8' LT.
B-12	STA. 21+95	5' RT.**	STA. 21+92	Q
B-13	STA. 22+84	20' RT.**	STA. 22+84	3.8' RT.
SB-01	STA. 29+42	16' RT.***	STA. 29+42	16' RT.
SB-02	STA. 30+12	16' LT.***	STA. 30+12	16' LT.
SB-03	STA. 30+82	16' RT.***	STA. 30+82	16' RT.

NOTES:
 * STATION & OFFSET ARE MEASURED FROM EXISTING CENTERLINE
 ** STATION & OFFSET ARE MEASURED FROM A PREVIOUS PROPOSED CENTERLINE THAT HAS SINCE BEEN ABANDONED
 *** STATION & OFFSET ARE MEASURED FROM PROPOSED CENTERLINE



SOIL BORINGS
 STA. 15+00 TO STA. 50+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

BORING NO. B-01
DATE 07-24-06
W. & A. FILE NO. 3688
SHEET 1 OF 5



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION West Wall - Station 18+65; 60' Left of Centerline DRILLED BY Fehl
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT HRS -
BORING DISCONTINUED AT ELEVATION (-)21.0 Ft. GROUND WATER ELEVATION AT COMPLETION None


DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Dark Brown SILTY CLAY Organic Topsoil	7"						
Very Stiff, Brown SILTY CLAY			5				
		SS	8	4.0	3.7	102	17
	04		9(17)				
			4				
Very Stiff, Brown SILTY CLAY LOAM		SS	5	2.5	2.3	104	16
			7(12)				
	08		4				
		SS	7	2.5	2.4	105	14
			8(15)				
Stiff, Brown SILT			5				
		SS	4	1.8	1.5	107	10
	12		4(8)				
			3				
		SS	5	2.0	-	-	9
			6(11)				
	16		5				
		SS	5	2.0	1.8	106	12
			8(13)				
Very Stiff, Brown, Weathered GLACIAL SILTY CLAY TILL			9				
	20		10	3.4	3.2	-	13
		SS	13(23)				
EXPLORATORY BORING DISCONTINUED							
	24						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-02
DATE 07-24-06
W. & A. FILE NO. 3688
SHEET 2 OF 5



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION West Wall - Station 19+40; 75' Left of Centerline DRILLED BY Fehl
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT 2 HRS -
BORING DISCONTINUED AT ELEVATION (-)21.0 Ft. GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown SILTY CLAY LOAM Organic Topsoil	7"						
Very Stiff, Brown SILTY CLAY			5				
		SS	6	3.6	3.5	100	17
	04		6(12)				
			4				
Stiff, Brown SILTY CLAY LOAM		SS	6	1.8	1.6	98	18
			5(11)				
	08		4				
		SS	4	1.8	-	-	10
			5(9)				
	12		2				
		SS	3	1.5	1.1	103	14
			5(8)				
	16		3				
		SS	4	1.8	1.5	105	14
			6(10)				
Stiff, Brown SILTY CLAY LOAM			5				
		SS	5	1.7	1.5	102	16
	16		6(11)				
			5				
	20		7	1.7	1.5	115	16
		SS	9(16)				
Stiff, Brown, Weathered GLACIAL SILTY CLAY TILL			5				
	20		7	1.7	1.5	115	16
		SS	9(16)				
EXPLORATORY BORING DISCONTINUED							
	24						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

BORING NO. B-03(a)
 DATE 07-24-06
 W. & A. FILE NO. 3688
 SHEET 3 OF 5



WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
 BORING LOCATION West Wall - Station 20+20; 85' Left of Centerline DRILLED BY Fehl
 BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
 GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT 3 HRS None
 BORING DISCONTINUED AT ELEVATION (-)21.0 Ft. GROUND WATER ELEVATION AT COMPLETION None

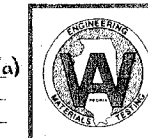
DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Dark Brown SILTY CLAY LOAM Organic Topsoil	7"						
Very Stiff, Brown And Gray SILTY CLAY LOAM							
	04	SS	7 8 8(16) 8	3.5	3.2	103	15
		SS	10 12(22)	2.4	2.2	105	12
Stiff, Light Brown SILT							
	08	SS	5 6 7(13) 6	1.3	1.2	107	10
		SS	7 8(15)	1.5	-	-	10
	12	SS	7 8 10(18)	2.2	1.6	107	9
Stiff To Very Stiff, Brown SILTY CLAY LOAM							
	16	SS	4 8 12(20)	2.1	1.9	105	11
	20	SS	8 9 11(20)	2.4	2.2	105	12
EXPLORATORY BORING DISCONTINUED							
	24						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

BORING NO. B-04(a)
 DATE 07-24-06
 W. & A. FILE NO. 3688
 SHEET 4 OF 5



WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
 BORING LOCATION East Wall - Station 46+60; 18' Right of Centerline DRILLED BY Fehl
 BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
 GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT 4 HRS (-)12.1 Ft.
 BORING DISCONTINUED AT ELEVATION (-)16.0 Ft. GROUND WATER ELEVATION AT COMPLETION None


DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown SILTY CLAY LOAM Organic Topsoil	6"						
Medium, Brown SILTY CLAY LOAM							
	03	SS	3 3 3(6)	1.0	0.8	97	23
		SS	2 2 3(5)	1.1	1.0	97	24
Stiff, Brown SILTY CLAY							
	06	SS	3 3 4(7)	1.8	1.7	99	22
	09	SS	4 7 8(15)	2.5	2.4	117	16
Very Stiff, Brown, Weathered GLACIAL SILTY CLAY TILL							
	12	SS	3 3 3(6)	1.3	1.1	115	19
Stiff, Brown And Gray, Weathered GLACIAL SILTY CLAY TILL							
	15	SS	2 2 3(5)	0.7	0.5	116	12
Medium, Brown And Gray, Weathered GLACIAL SANDY CLAY TILL							
EXPLORATORY BORING DISCONTINUED							
	18						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

SOIL BORINGS
 PEORIA COUNTY
 STRUCTURE NO. 072-3145



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-05(A)
DATE 07-24-06
W & A FILE NO. 3688
SHEET 5 OF 5


PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION East Wall - Station 47+30; 20' Right of Centerline DRILLED BY Fehl
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT 5 HRS (-)12.6 Ft.
BORING DISCONTINUED AT ELEVATION (-)16.0 Ft. GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Dark Brown SILTY CLAY Organic Topsoil	6"						
Medium, Brown And Gray SILTY CLAY LOAM	03	SS	2 2 2(4)	1.0	0.8	97	21
	06	SS	4 3 4(7)	0.7	0.6	96	23
	09	SS	3 3 4(7)	1.0	0.8	95	24
	12	SS	4 4 5(9)	1.2	1.0	96	24
Stiff, Gray And Orange-Brown, Weathered GLACIAL SILTY CLAY TILL	12	SS	3 4 7(11)	1.5	1.3	115	18
Very Stiff, Brown And Gray, Weathered GLACIAL SILTY CLAY TILL	15	SS	5 6 8(14)	2.5	2.2	117	16
EXPLORATORY BORING DISCONTINUED	18						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-03
DATE 8-16-04
W & A FILE NO. 3755
SHEET 1 OF 5

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR LOCATION Peoria County, Illinois
BORING LOCATION Station 30+78; Centerline DRILLED BY Fehl
BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)7.0 Ft.
GROUND SURFACE ELEVATION 503+ GROUND WATER ELEVATION AT 5 HRS -
BORING DISCONTINUED AT ELEVATION 434+ GROUND WATER ELEVATION AT COMPLETION (-)4.1 Ft.

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown And Dark Brown SANDY CLAY Organic Topsoil	6"						
Medium-Density, Gray-Brown, Fine-Grained SAND With Some Weathered Sandstone	04	SS	3 7 5(12)	-	-	-	5
Very Dense, Gray-Brown, Fine-Grained SAND With Some Medium-Grained Gravel	08	SS	19 37 68(105)	-	-	-	8
Hard, Gray SANDSTONE (See Attached Rock Core Summary)	08	SS	97/5*	4.5+	-	-	9
	12	SS	106/2*	4.5+	-	-	10
	16	CORE	-	-	-	-	8
	20	CORE	-	-	-	-	7
	24	CORE	-	-	-	-	7
EXPLORATORY BORING DISCONTINUED							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	42
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

SHEET 5 OF 13

TELEPHONE
309-673-2131

TESTS • INVESTIGATIONS
ANALYSIS • DESIGN • EVALUATIONS
CONSULTATION • REPORTS • INSPECTIONS
ARBITRATION • EXPERT WITNESS TESTIMONY

SOILS • PORTLAND CEMENT CONCRETE
BITUMINOUS CONCRETE • STEEL
ASPHALT • AGGREGATES • EMULSIONS
POZZOLANIC MATERIALS • LIME



WHITNEY & ASSOCIATES
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2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604-3193

TELEFAX
309-673-3050

GEOTECHNICAL ENGINEERING
CONSTRUCTION QUALITY CONTROL
SUBSURFACE EXPLORATIONS
ENVIRONMENTAL INVESTIGATIONS

MONITORING WELL INSTALLATIONS
BUILT-UP ROOF INVESTIGATIONS
WELDER CERTIFICATIONS
INSURANCE INVESTIGATIONS

CLIENT: Mrs. Amy Benecke-MoLaren
Peoria County Highway Department
6915 West Plank Road
Peoria, Illinois 61604

W&A FILE NO. 3755001
DATE: 08-27-04

PROJECT:
Lancaster Road Bridge
Section No. 93-00049-00-BR
Peoria County, Illinois

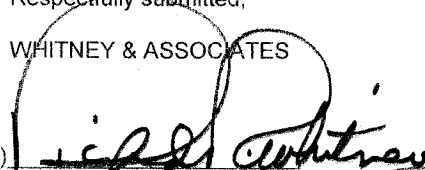
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ROCK CORE SUMMARY
BORING B-3

SAMPLE DEPTH - FEET	ROCK CLASSIFICATION	CORE RECOVERY RATIO - %	ROCK QUALITY DESIGNATION - %	COMPRESSIVE STRENGTH PSI
10.0 - 15.0	Sandstone	76	83	3040
15.0 - 20.0	Sandstone	92	94	2740
20.0 - 25.0	Sandstone	80	78	3220

Should you have any questions or comments whatsoever in regard to these test results, or any additional information is desired, please do not hesitate to contact me personally at your convenience.


Respectfully submitted,
WHITNEY & ASSOCIATES

(By) 
Richard R. Whitney, P. E.

RRW:rma

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-04
DATE 8-16-04
W. & A. FILE NO. 3755
SHEET 2 OF 5



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR **LOCATION** Peoria County, Illinois

BORING LOCATION Station 31+37; Centerline **DRILLED BY** Fehl

BORING TYPE Hollow-Stem Auger **WEATHER CONDITIONS** Partly Cloudy & Mild

SOIL CLASSIFICATION SYSTEM U. S. B. S. C. **SEEPAGE WATER ENCOUNTERED AT ELEVATION** (-) 12.1 Ft.

GROUND SURFACE ELEVATION 513+ **GROUND WATER ELEVATION AT** - **HRS.** -

BORING DISCONTINUED AT ELEVATION 487+ **GROUND WATER ELEVATION AT COMPLETION** (-) 12.8 Ft.

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown SILTY CLAY LOAM Organic Topsoil Medium, Brown SILTY CLAY	6"						
	04	SS	3 4 4(8)	0.9	0.8	89	28
Stiff, Gray And Orange-Brown SILTY CLAY		SS	4 3 4(7)	1.2	1.0	95	26
Soft, Brown SANDY CLAY	08	SS	2 3 4(7)	0.5	-	-	25
Medium, Gray SILTY CLAY		SS	3 4 2(6)	0.8	0.6	94	25
	12	SS	2 3 3(6)	0.7	0.7	95	25
Medium-Density, Gray And Orange- Brown, Fine-Grained SAND	16	SS	5 6 7(13) 20	-	-	-	17
		SS	31 32(63)	-	-	-	17
Very Dense, Gray And Orange-Brown, Weathered SANDSTONE	20	SS	97/3*	4.5+	-	-	11
Hard, Gray SANDSTONE		SS	115/3*	4.5+	-	-	9
	24	SS	106/2*	4.5+	-	-	9
EXPLORATORY BORING DISCONTINUED							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

BORING NO. B-05
DATE 8-16-04
W. & A. FILE NO. 3755
SHEET 5 OF 5
PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR
BORING LOCATION Station 31+99; Centerline
BORING TYPE Hollow-Stem Auger
SOIL CLASSIFICATION SYSTEM U. S. B. S. C.
GROUND SURFACE ELEVATION 514+
BORING DISCONTINUED AT ELEVATION 483+
LOCATION Peoria County, Illinois
DRILLED BY Fehl
WEATHER CONDITIONS Partly Cloudy & Mild
SEEPAGE WATER ENCOUNTERED AT ELEVATION (-) 7.0 Ft.
GROUND WATER ELEVATION AT HRS. -
GROUND WATER ELEVATION AT COMPLETION (-) 6.9 Ft.



WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
7*	Brown SILTY CLAY Organic Topsoil Stiff, Brown SILTY CLAY						
04	Medium, Brown SILTY CLAY	SS	4 3(7)	1.3	1.1	97	23
08	Very Soft, Brown And Orange-Brown SANDY CLAY	SS	3 4(8) 2 2(4)	0.7	0.6	90	29
12	Soft To Medium, Gray SILTY CLAY	SS	2 1 1 2(3)	0.3	-	-	26
16	Dense, Gray And Orange-Brown, Fine- Grained SAND With Some Silt	SS	1 1 2 2(4)	0.6	0.4	90	29
20	Very Dense, Gray And Orange-Brown, Fine-Grained SAND With Some Silt	SS	1 1 2 2(3)	0.8	0.7	93	27
24	Hard, Gray And Orange-Brown, Weathered SANDSTONE	SS	1 2 2 2(4)	0.7	0.6	92	28
			24 22 29(51)	-	-	-	20
			31 48 59(107)	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER
 FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 QU - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

BORING NO. B-05
DATE 8-16-04
PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR
LOCATION Peoria County, Illinois
SHEET 4 OF 5
W. & A. FILE NO. 3755

BORING LOG
 (CONTINUATION)


DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
	See Sheet 1 Of 6						
30	Hard, Gray SANDSTONE	SS	111/3*	4.5*	-	-	11
34	EXPLORATORY BORING DISCONTINUED	SS	128/2*	4.5*	-	-	9
38							
42							
46							
50							
54							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER
 FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 QU - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

SOIL BORINGS
 PEORIA COUNTY
 STRUCTURE NO. 072-3145


WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-06
DATE 8-16-04
W. & A. FILE NO. 3755
SHEET 5 OF 5

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR
LOCATION Peoria County, Illinois
BORING LOCATION Station 34+50; Centerline
DRILLED BY Fehl
BORING TYPE Hollow-Stem Auger
WEATHER CONDITIONS Partly Cloudy & Mild

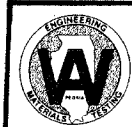
SOIL CLASSIFICATION SYSTEM U. S. B. S. C.
SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)24.2 Ft
GROUND SURFACE ELEVATION 515+
GROUND WATER ELEVATION AT _____ HRS _____
BORING DISCONTINUED AT ELEVATION 483+
GROUND WATER ELEVATION AT COMPLETION (-)19.5 Ft

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
0	Brown SILTY CLAY Organic Topsoil Medium, Gray And Orange-Brown Mottled Dark Brown SILTY CLAY						
04		SS	2 2 4(6)	0.9	0.8	94	27
		SS	3 4 5(9)	1.0	0.9	93	28
08		SS	2 2 3(5)	0.8	0.7	93	28
	Loose, Brown, Fine-Grained SAND	SS	2 2 2(4)	-	-	-	21
12		SS	3 4 4(8)	1.7	1.5	105	22
	Stiff, Brown SANDY CLAY LOAM	SS	2 3 4(7)	1.5	1.3	103	23
20		SS	3 3 3(6)	0.5	0.3	94	27
	Soft, Gray SILTY CLAY LOAM	SS	3 3 4(7)	-	-	-	17
24		SS	3 3 4(7)	-	-	-	17
	Loose, Gray And Orange-Brown, Fine-To Medium-Grained SAND EXPLORATORY BORINGS DISCONTINUED	SS	3 3 4(7)	-	-	-	17

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS


WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-09
DATE 10-29-04
W. & A. FILE NO. 3949
SHEET 11 OF 20

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR
LOCATION Peoria County, Illinois
BORING LOCATION Station 19+05; 10' Left Centerline
DRILLED BY Fehl
BORING TYPE Hollow-Stem Auger
WEATHER CONDITIONS Partly Cloudy & Mild

SOIL CLASSIFICATION SYSTEM U. S. B. S. C.
SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 619+
GROUND WATER ELEVATION AT 24+ HRS None
BORING DISCONTINUED AT ELEVATION 588+
GROUND WATER ELEVATION AT COMPLETION None

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
0	Brown SILTY CLAY Organic Topsoil Very Stiff, Brown SILTY CLAY						
4		SS	8	2.2	2.1	97	20
		SS	10	3.2	2.9	99	19
8		SS	10	2.7	2.5	103	15
	Very Stiff, Brown SILTY CLAY LOAM	SS	12	3.7	3.4	106	13
12		SS	11	3.4	3.1	105	14
	Very Stiff, Light Brown And Brown CLAY LOAM	SS	13	4.0	3.8	108	14
20		SS	14	4.4	4.1	121	12
	Hard, Light Brown And Brown, Weathered GLACIAL SILTY CLAY TILL	SS	14	4.5	4.7	124	11

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

SOIL BORINGS
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	45
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

SHEET 8 OF 13

BORING LOG
(CONTINUATION)
DATE 10-29-04
BORING NO. B-09
PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR
LOCATION Peoria County, Illinois
SHEET 12 OF 20
W. & A. FILE NO. 3949

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
30	See Sheet 11 of 20	SS	18	4.5*	5.2	125	11
34	EXPLORATORY BORING DISCONTINUED						
38							
42							
46							
50							
54							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %
WHITNEY & ASSOCIATES
PEORIA, ILLINOIS



WHITNEY & ASSOCIATES
INCORPORATED
2405 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-10
DATE 10-29-04
W. & A. FILE NO. 3949
SHEET 13 OF 20
PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR
LOCATION Peoria County, Illinois
BORING LOCATION Station 20+00; 20' Left Centerline
BORING TYPE Hollow-Stem Auger
SOIL CLASSIFICATION SYSTEM U. S. S. C.
GROUND SURFACE ELEVATION 620+
BORING DISCONTINUED AT ELEVATION 574+
LOCATION Peoria County, Illinois
DRILLED BY Fehl
WEATHER CONDITIONS Partly Cloudy & Mild
SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND WATER ELEVATION AT 24+ HRS. None
GROUND WATER ELEVATION AT COMPLETION None

DEPTH IN FEET	DESCRIPTION	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
9"	Brown SILTY CLAY LOAM Organic Topsoil						
	Stiff, Brown SILTY CLAY	SS	12	2.0	1.7	96	23
4	Very Stiff, Light Brown And Orange-Brown SILTY CLAY LOAM	SS	10	3.7	3.5	101	20
8	Stiff, Light Brown SILT LOAM	SS	7	1.3	1.1	104	15
		SS	7	1.3	1.2	101	18
12	Stiff, Brown SILTY CLAY LOAM	SS	8	1.3	1.0	99	21
16		SS	10	1.5	1.4	100	20
20	Very Stiff, Light Brown CLAY LOAM	SS	12	3.3	3.1	109	17
24	Very Stiff, Light Brown And Brown, Weathered GLACIAL SILTY CLAY TILL	SS	18	3.7	3.4	119	15

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %
WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

BORING LOG
(CONTINUATION)
DATE 10-29-04

BORING NO. B-10
PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR
LOCATION Peoria County, Illinois

SHEET 14 OF 20
W. & A. FILE NO. 3949

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 13 of 20							
Hard, Light Brown, Weathered GLACIAL SANDY CLAY TILL	30	SS	13	4.4	4.1	124	12
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL	34	SS	37	4.5*	5.1	125	10
	38						
	42	SS	40	4.5*	5.6	126	9
	46	SS	39	4.5*	4.9	124	10
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO B-11
DATE 11-15-04
W. & A. FILE NO. 3949
SHEET 15 OF 20



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR LOCATION Peoria County, Illinois
BORING LOCATION Station 20+90; 10' Left Centerline DRILLED BY Fehl
BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U. S. B. S. C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 620+ GROUND WATER ELEVATION AT 24+ HRS. None
BORING DISCONTINUED AT ELEVATION 574+ GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown SILTY CLAY Organic Topsoil	6"						
Very Stiff, Light Brown And Gray Mottled Orange-Brown SILT LOAM		SS	16	2.6	2.3	105	11
Stiff, Light Brown SILT LOAM	4						
		SS	10	1.2	0.9	105	9
Medium, Light Brown SILT	8	SS	7	1.0	-	-	8
		SS	8	1.0	-	-	9
Stiff, Brown SILT LOAM	12						
		SS	10	1.2	1.1	106	12
	16	SS	11	2.0	1.8	108	11
Stiff, Light Brown CLAY LOAM	20						
		SS	7	1.7	1.5	108	17
Very Stiff, Light Brown, Weathered GLACIAL SILTY CLAY TILL	24						
		SS	18	3.5	3.1	122	13

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

BORING LOG
(CONTINUATION)

BORING NO. B-11 DATE 11-15-04

PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR SHEET 16 OF 20

LOCATION Peoria County, Illinois W. & A. FILE NO. 3949

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _p	Q _u	D _d	M _c
See Sheet 15 of 20							
Hard, Light Brown, Weathered GLACIAL SILTY CLAY TILL	30	SS	35	4.5*	4.7	124	11
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL	34	SS	40	4.5*	5.8	125	10
	38						
	42	SS	43	4.5*	5.5	126	10
	46	SS	47	4.5*	5.9	126	9
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_u - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
D_d - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-12 DATE 11-15-04

W. & A. FILE NO. 3949 SHEET 17 OF 20

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR LOCATION Peoria County, Illinois

BORING LOCATION Station 21+95; 5" Right Centerline DRILLED BY Fehl

BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild

SOIL CLASSIFICATION SYSTEM U. S. E. S. C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None

GROUND SURFACE ELEVATION 618* GROUND WATER ELEVATION AT 24* HRS. None

BORING DISCONTINUED AT ELEVATION 567* GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _p	Q _u	D _d	M _c
Gray-Brown SILT LOAM Organic Topsoil Very Stiff, Light Brown SILT	5"						
		SS	11	2.5	-	-	7
	4						
		SS	10	3.0	-	-	7
	8	SS	10	2.5	-	-	8
		SS	12	2.8	-	-	8
Stiff, Brown SILT LOAM	12	SS	16	1.5	1.3	105	10
Hard, Brown, Weathered GLACIAL SANDY CLAY TILL	16	SS	14	4.5*	4.5	125	11
Very Stiff, Light Brown, Weathered GLACIAL SILTY CLAY TILL	20	SS	11	2.5	2.1	120	15
Hard, Light Brown, Weathered GLACIAL SANDY CLAY TILL	24	SS	27	4.5*	4.1	123	12

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_u - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
D_d - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	48
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BRS-0369(104)	
CONTRACT NO. 89323				

SHEET 11 OF 13

BORING LOG
(CONTINUATION)
BORING NO. B-12 DATE 11-15-04
PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR SHEET 18 OF 20
LOCATION Peoria County, Illinois W. & A. FILE NO. 3949

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _p	Q _u	D _d	M _c
See Sheet 17 of 20							
Hard, Gray-Brown, Weathered GLACIAL SILTY CLAY TILL	30	SS	33	4.5*	5.0	125	11
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL	34	SS	44	4.5*	6.4	125	10
Stiff, Gray SANDY CLAY LOAM	42	SS	47	2.0	1.5	115	11
Hard, Gray CLAY SHALE	46	SS	49	4.5*	-	-	12
Hard, Gray-Brown SANDSTONE	50	SS	70/6*	4.5*	-	-	7
EXPLORATORY BORING DISCONTINUED	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_u - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
D_d - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-13
DATE 11-15-04
W. & A. FILE NO. 3949
SHEET 19 OF 20



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD BRIDGE; SEC# 93-00049-00-BR LOCATION Peoria County, Illinois
BORING LOCATION Station 22+84; 20' Right Centerline DRILLED BY Fehl
BORING TYPE Hollow-Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U. S. B. S. C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 616+ GROUND WATER ELEVATION AT 24+ HRS. None
BORING DISCONTINUED AT ELEVATION 565+ GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _p	Q _u	D _d	M _c
Brown SILTY CLAY LOAM Organic Topsoil	6"						
Stiff, Light Brown SILT LOAM	4	SS	10	1.2	1.0	106	8
	8	SS	13	1.5	1.2	106	8
	12	SS	12	1.4	1.1	107	7
	16	SS	15	1.8	1.5	106	11
Stiff, Light Brown CLAY LOAM	12	SS	13	1.7	1.4	107	16
Very Stiff, Brown And Light Brown, Weathered GLACIAL SILTY CLAY TILL	16	SS	15	3.8	3.6	119	12
	20	SS	18	3.2	2.9	118	13
Stiff, Light Brown And Orange-Brown, Weathered GLACIAL SANDY CLAY TILL	24	SS	14	2.0	1.5	121	10

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_u - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
D_d - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	49
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

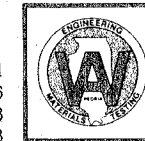
SHEET 12 OF 13

BORING LOG
(CONTINUATION)
DATE 11-15-04
BORING NO. B-13
PROJECT Lancaster Road Bridge; Sec #93-00049-00-BR SHEET 20 OF 20
LOCATION Peoria County, Illinois W. & A. FILE NO. 3949

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 19 of 20							
Hard, Gray-Brown, Weathered GLACIAL SILTY CLAY TILL	30	SS	33	4.5*	5.0	124	12
Hard, Gray, Unweathered GLACIAL SILTY CLAY TILL	34	SS	28	4.5*	4.8	123	12
Hard, Blue-Gray CLAY SHALE	42	SS	33	4.5*	5.9	125	10
Hard, Gray-Brown LIMESTONE	46	SS	77/7*	4.5*	-	-	11
EXPLORATORY BORING DISCONTINUED	50	SS	103/1*	4.5*	-	-	6
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %
WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. SB-01
DATE 11-03-06
W. & A. FILE NO. 3688
SHEET 1 OF 3



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG


PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION See Site Plan Sheet DRILLED BY Fehl
BORING TYPE Hand Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION -
GROUND SURFACE ELEVATION 126.8 * GROUND WATER ELEVATION AT - HRS. -
BORING DISCONTINUED AT ELEVATION 118.9 GROUND WATER ELEVATION AT COMPLETION -

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Dark Brown SILTY CLAY LOAM Organic Topsoil	7"						
Very Stiff To Hard, Gray-Brown SILTY CLAY LOAM	02	HA					
	04						
	06						
Hard, Brown, Weathered SANDSTONE		HA					
Hard, Brown, Weathered SHALE		HA					
EXPLORATORY BORING DISCONTINUED	08						
	10						
	12						

*Approximate Surface Elevation Referenced To Assumed Benchmark (100.0) Established On Shale At Bottom Of Creek
N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %
WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

BORING NO. SB-02
DATE 11-03-06
W. & A. FILE NO. 3688
SHEET 2 OF 3



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION See Site Plan Sheet DRILLED BY FehI
BORING TYPE Hand Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION -
GROUND SURFACE ELEVATION 107.0 * GROUND WATER ELEVATION AT - HRS. -
BORING DISCONTINUED AT ELEVATION 99.5 GROUND WATER ELEVATION AT COMPLETION -

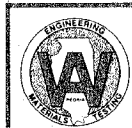
DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Dark Brown SILTY CLAY LOAM Organic Topsoil Stiff, Brown SILTY CLAY	7"						
	02	HA					
Medium-Density, Brown, Fine-Grained SAND	04	HA					
Medium-Density, Brown, Medium-Grained SAND With Some Fine-Grained Gravel And Silty Clay	06	HA					
Hard, Brown, Weathered SANDSTONE (Auger Refusal at 7.5 Feet)	08						
EXPLORATORY BORING DISCONTINUED	10						
*Approximate Surface Elevation Referenced To Assumed Benchmark (100.0) Established On Shale At Bottom Of Creek	12						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. SB-03
DATE 11-03-06
W. & A. FILE NO. 3688
SHEET 3 OF 3



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT LANCASTER ROAD IMPROVEMENT LOCATION Peoria County, Illinois
BORING LOCATION See Site Plan Sheet DRILLED BY FehI
BORING TYPE Hand Auger WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION -
GROUND SURFACE ELEVATION 104.1 * GROUND WATER ELEVATION AT - HRS. -
BORING DISCONTINUED AT ELEVATION 99.4 GROUND WATER ELEVATION AT COMPLETION -

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Brown SILTY CLAY LOAM Organic Topsoil Loose, Brown, Fine- To Medium-Grained SAND	4"						
	01	HA					
Stiff, Brown SILTY CLAY	02	HA					
	03	HA					
Medium-Density, Brown, Medium- To Coarse- Grained SAND And Fine- To Medium-Grained GRAVEL	04	HA					
Hard, Brown, Weathered SANDSTONE Auger Refusal At (-)4.7 Feet	05						
EXPLORATORY BORING DISCONTINUED	06						
*Approximate Surface Elevation Referenced To Assumed Benchmark (100.0) Established On Shale At Bottom Of Creek							

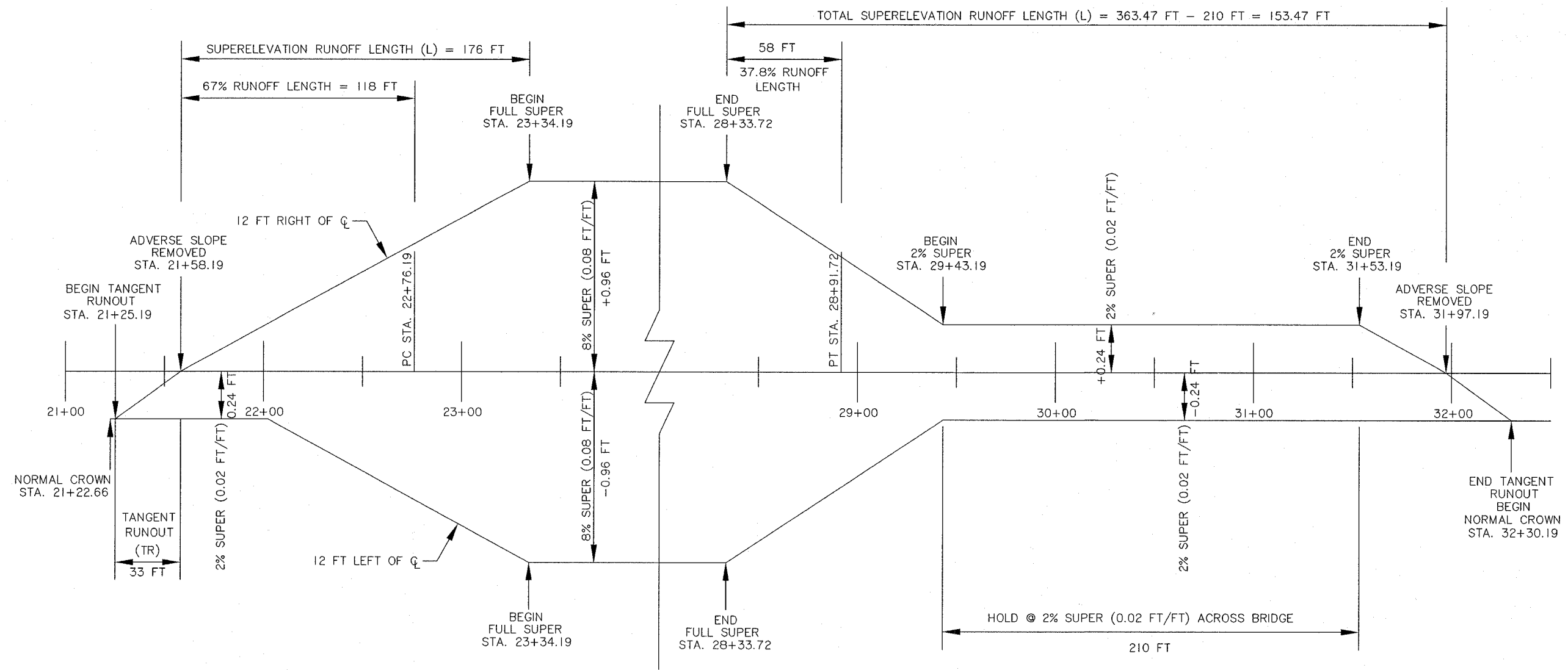
N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

SOIL BORINGS
PEORIA COUNTY
STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	51
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0399(104)
CONTRACT NO. 89323				



SUPERELEVATION DEVELOPMENT
STA. 21+00 TO STA. 33+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	52
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

FINISHED GRADE ELEVATIONS

STA.	20' LT.	12' LT.	℄	12' RT.	20' RT.
12+00	EXISTING ROADBED				
13+00	627.85	628.17	628.34	628.10	627.78
+50	628.78	629.10	628.90	628.66	628.34
14+00	629.30	629.62	629.16	628.70	628.38
+50	629.68	629.84	629.13	628.42	627.95
15+00	629.76	629.76	628.80	627.84	627.20
+50	629.13	629.13	628.17	627.21	626.57
16+00	628.20	628.20	627.24	626.28	625.64
+50	626.98	626.98	626.02	625.06	624.41
17+00	625.46	625.46	624.50	623.54	622.88
+50	623.64	623.64	622.68	621.72	621.06
18+00	621.53	621.53	620.57	619.61	618.95
+50	619.12	619.12	618.16	617.20	616.54
19+00	616.41	616.41	615.45	614.49	613.84
+50	613.09	613.23	612.45	611.67	611.14
20+00	609.38	609.67	609.15	608.62	608.27
+50	605.61	605.93	605.65	605.38	605.06
21+00	601.76	602.08	602.15	601.91	601.59
+50	598.09	598.41	598.65	598.59	598.27
22+00	594.55	594.87	595.15	595.44	595.12
+50	590.76	591.12	591.65	592.19	591.91
23+00	586.84	587.36	588.15	588.94	588.83
+50	583.05	583.69	584.65	585.61	585.61
24+00	579.55	580.19	581.15	582.11	582.11
+50	576.05	576.69	577.65	578.61	578.61

STA.	20' LT.	12' LT.	℄	12' RT.	20' RT.
25+00	572.55	573.19	574.15	575.11	575.11
+50	569.05	569.69	570.65	571.61	571.61
26+00	565.55	566.19	567.15	568.11	568.11
+50	562.07	562.71	563.67	564.63	564.63
27+00	558.83	559.46	560.42	561.38	561.38
+50	555.88	556.51	557.47	558.43	558.43
28+00	553.23	553.86	554.82	555.78	555.78
+50	551.06	551.62	552.47	553.33	553.27
29+00	549.56	549.89	550.41	550.94	550.66
+50			548.65		
30+00			547.19		
+50			546.03		
31+00			545.16		
+50			544.59		
32+00	543.76	544.08	544.32	544.22	543.90
+50	543.79	544.11	544.35	544.11	543.79
33+00	544.12	544.44	544.68	544.44	544.12
+50	544.74	545.06	545.30	545.06	544.74
34+00	545.66	545.98	546.22	545.98	545.66
+50	546.87	547.19	547.43	547.19	546.87
35+00	548.39	548.71	548.95	548.71	548.39
+50	550.20	550.52	550.76	550.52	550.20
36+00	552.31	552.63	552.87	552.63	552.31
+50	554.72	555.04	555.28	555.04	554.72
37+00	557.43	557.75	557.99	557.75	557.43
+50	560.43	560.75	560.99	560.75	560.43

STA.	20' LT.	12' LT.	℄	12' RT.	20' RT.
38+00	563.73	564.05	564.29	564.05	563.73
+50	567.23	567.55	567.79	567.55	567.23
39+00	570.73	571.05	571.29	571.05	570.73
+50	574.23	574.55	574.79	574.55	574.23
40+00	577.73	578.05	578.29	578.05	577.73
+50	581.23	581.55	581.79	581.82	581.50
41+00	584.60	584.92	585.29	585.65	585.33
+50	587.68	588.12	588.79	589.45	589.25
42+00	590.69	591.33	592.29	593.25	593.25
+50	594.19	594.83	595.79	596.75	596.75
43+00	597.69	598.33	599.29	600.25	600.25
+50	601.19	601.83	602.79	603.75	603.75
44+00	604.69	605.33	606.29	607.25	607.25
+50	608.07	608.72	609.68	610.64	610.64
45+00	611.17	611.82	612.78	613.74	613.74
+50	613.97	614.62	615.58	616.54	616.54
46+00	616.47	617.12	618.08	619.04	619.04
+50	618.67	619.33	620.29	621.25	621.25
47+00	620.58	621.24	622.20	623.16	623.16
+50	622.19	622.85	623.81	624.77	624.77
48+00	624.52	624.84	625.13	625.42	625.10
+50	625.58	625.90	626.14	625.90	625.58
49+00	626.40	626.72	626.96	626.72	626.40
+50	627.21	627.53	627.77	627.53	627.21
50+00	EXISTING ROADBED				

SEEDING QUANTITIES

LT/RT	FROM LOCATION	TO LOCATION	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 3 (ACRE)	TEMP. SEEDING (POUND)*	MULCH METHOD 2 (ACRE)**	NITROGEN FERTILIZER NUTRIENT (POUND)***	PHOSPHORUS FERTILIZER NUTRIENT (POUND)***	POTASSIUM FERTILIZER NUTRIENT (POUND)***	EROSION CONTROL BLANKET (HEAVY DUTY) (SQ. YD.)
LT	STA. 12+50.00	STA. 13+00.00	0.03		3.42	0.06	2.7	2.7	2.7	
	STA. 13+00.00	STA. 13+50.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 13+50.00	STA. 14+00.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 14+00.00	STA. 14+50.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 14+50.00	STA. 15+00.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 15+00.00	STA. 15+50.00	0.02		2.28	0.04	1.8	1.8	1.8	
	STA. 15+50.00	STA. 16+00.00	0.03		3.42	0.06	2.7	2.7	2.7	
	STA. 16+00.00	STA. 16+50.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 16+50.00	STA. 17+00.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 17+00.00	STA. 17+50.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 17+50.00	STA. 18+00.00	0.06		6.84	0.12	5.4	5.4	5.4	
	STA. 18+00.00	STA. 18+50.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 18+50.00	STA. 19+00.00	0.06		6.84	0.12	5.4	5.4	5.4	
	STA. 19+00.00	STA. 19+50.00		0.05	5.70		4.5	4.5	4.5	242.0
	STA. 19+50.00	STA. 20+00.00		0.04	4.56		3.6	3.6	3.6	193.6
	STA. 20+00.00	STA. 20+50.00		0.05	5.70		4.5	4.5	4.5	242.0
	STA. 20+50.00	STA. 21+00.00		0.09	10.26		8.1	8.1	8.1	435.6
	STA. 21+00.00	STA. 21+50.00		0.11	12.54		9.9	9.9	9.9	532.4
	STA. 21+50.00	STA. 22+00.00		0.10	11.40		9	9	9	484
	STA. 22+00.00	STA. 22+50.00		0.11	12.54		9.9	9.9	9.9	532.4
STA. 22+50.00	STA. 23+00.00		0.11	12.54		9.9	9.9	9.9	532.4	
STA. 23+00.00	STA. 23+50.00		0.10	11.40		9	9	9	484	
STA. 23+50.00	STA. 24+00.00		0.10	11.40		9	9	9	484	
STA. 24+00.00	STA. 24+50.00		0.09	10.26		8.1	8.1	8.1	435.6	
STA. 24+50.00	STA. 25+00.00		0.09	10.26		8.1	8.1	8.1	435.6	
TOTAL (STA. 12+50 TO STA. 25+00)			1.48	1.72	364.80	2.96	288	288	288	8324.8
RT	STA. 12+50.00	STA. 13+00.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 13+00.00	STA. 13+50.00	0.06		6.84	0.12	5.4	5.4	5.4	
	STA. 13+50.00	STA. 14+00.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 14+00.00	STA. 14+50.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 14+50.00	STA. 15+00.00	0.06		6.84	0.12	5.4	5.4	5.4	
	STA. 15+00.00	STA. 15+50.00	0.09		10.26	0.18	8.1	8.1	8.1	
	STA. 15+50.00	STA. 16+00.00	0.08		9.12	0.16	7.2	7.2	7.2	
	STA. 16+00.00	STA. 16+50.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 16+50.00	STA. 17+00.00	0.02		2.28	0.04	1.8	1.8	1.8	
	STA. 17+00.00	STA. 17+50.00	0.02		2.28	0.04	1.8	1.8	1.8	
	STA. 17+50.00	STA. 18+00.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 18+00.00	STA. 18+50.00	0.04		4.56	0.08	3.6	3.6	3.6	
	STA. 18+50.00	STA. 19+00.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 19+00.00	STA. 19+50.00	0.05		5.70	0.10	4.5	4.5	4.5	
	STA. 19+50.00	STA. 20+00.00	0.06		6.84	0.12	5.4	5.4	5.4	
	STA. 20+00.00	STA. 20+50.00	0.09		10.26	0.18	8.1	8.1	8.1	
	STA. 20+50.00	STA. 21+00.00	0.10		11.40	0.20	9	9	9	
	STA. 21+00.00	STA. 21+50.00		0.08	9.12		7.2	7.2	7.2	387.2
	STA. 21+50.00	STA. 22+00.00		0.08	9.12		7.2	7.2	7.2	387.2
	STA. 22+00.00	STA. 22+50.00		0.08	9.12		7.2	7.2	7.2	387.2
STA. 22+50.00	STA. 23+00.00		0.09	10.26		8.1	8.1	8.1	435.6	
STA. 23+00.00	STA. 23+50.00		0.08	9.12		7.2	7.2	7.2	387.2	
STA. 23+50.00	STA. 24+00.00		0.08	9.12		7.2	7.2	7.2	387.2	
STA. 24+00.00	STA. 24+50.00		0.09	10.26		8.1	8.1	8.1	435.6	
STA. 24+50.00	STA. 25+00.00		0.10	11.40		9	9	9	484	
TOTAL (STA. 12+50 TO STA. 25+00)			1.48	1.72	364.80	2.96	288	288	288	8324.8

* TEMPORARY EROSION CONTROL SEEDING APPLICATION RATE = 114 LB PER ACRE
 ** HALF OF MULCH QUANTITY IS RESERVED FOR TEMPORARY SEEDING
 *** NUTRIENT APPLICATION RATE = 90 LB PER ACRE

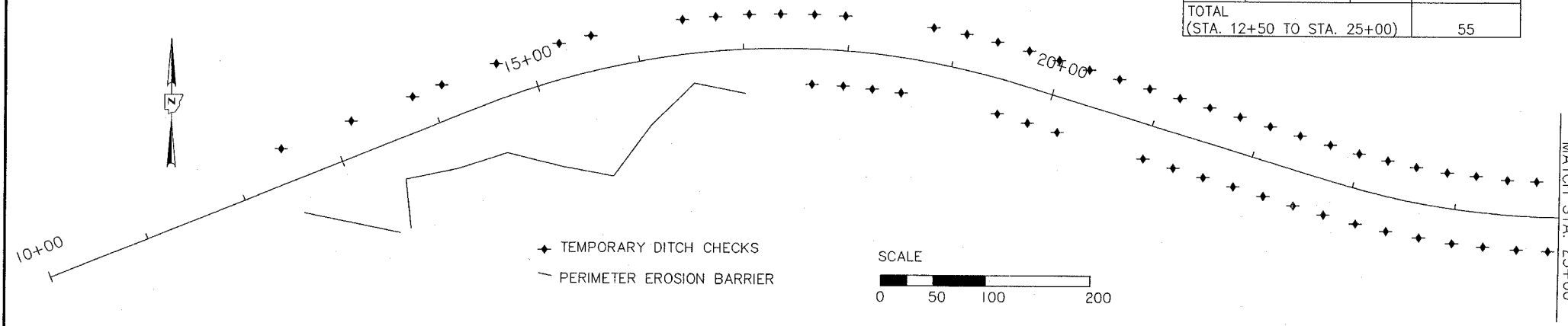
TEMPORARY DITCH CHECKS

LT/RT	LOCATION	OFFSET (FT.)	TEMPORARY DITCH CHECKS (EACH)
LT	STA. 12+50.00	33	1
	STA. 13+22.00	33	1
	STA. 13+85.00	33	1
	STA. 14+15.00	33	1
	STA. 14+70.00	33	1
	STA. 15+30.00	33	1
	STA. 15+60.00	33	1
	STA. 16+46.00	33	1
	STA. 16+76.00	33	1
	STA. 17+06.00	33	1
	STA. 17+36.00	33	1
	STA. 17+66.00	33	1
	STA. 17+96.00	33	1
	STA. 18+77.00	33	1
	STA. 19+07.00	33	1
	STA. 19+37.00	33	1
	STA. 19+67.00	33	1
	STA. 19+97.00	33	1
	STA. 20+27.00	33	1
	STA. 20+57.00	33	1
STA. 20+87.00	33	1	
STA. 21+17.00	33	1	
STA. 21+47.00	33	1	
STA. 21+77.00	33	1	
STA. 22+07.00	33	1	
STA. 22+37.00	33	1	
STA. 22+67.00	33	1	
STA. 22+97.00	33	1	
STA. 23+27.00	33	1	
STA. 23+57.00	33	1	
STA. 23+87.00	33	1	
STA. 24+17.00	33	1	
STA. 24+47.00	33	1	
STA. 24+77.00	33	1	
TOTAL (STA. 12+50 TO STA. 25+00)			55
RT	STA. 17+67.00	33	1
	STA. 17+97.00	33	1
	STA. 18+27.00	33	1
	STA. 18+57.00	33	1
	STA. 19+55.00	33	1
	STA. 19+85.00	33	1
	STA. 20+15.00	33	1
	STA. 21+01.00	33	1
	STA. 21+31.00	33	1
	STA. 21+61.00	33	1
	STA. 21+91.00	33	1
	STA. 22+21.00	33	1
	STA. 22+51.00	33	1
	STA. 22+81.00	33	1
	STA. 23+11.00	33	1
STA. 23+41.00	33	1	
STA. 23+71.00	33	1	
STA. 24+01.00	33	1	
STA. 24+31.00	33	1	
STA. 24+61.00	33	1	
STA. 24+91.00	33	1	

PERIMETER EROSION BARRIER

LT/RT	FROM LOCATION	OFFSET (FT.)	TO LOCATION	OFFSET (FT.)	LENGTH (FT.)	PERIMETER EROSION BARRIER (FT.)
RT	STA. 12+50.00	32.3	STA. 13+26.10	83.9	92	92
	STA. 13+37.15	83.9	STA. 13+50.00	38.4	48	48
	STA. 13+50.00	38.4	STA. 14+00.00	47.3	51	51
	STA. 14+00.00	47.3	STA. 14+50.00	50.7	50	50
	STA. 14+50.00	50.7	STA. 15+00.00	80.7	55	55
	STA. 15+00.00	80.7	STA. 15+50.00	102.4	50	50
	STA. 15+50.00	102.4	STA. 16+00.00	62.3	60	60
	STA. 16+00.00	62.3	STA. 16+50.00	28.0	59	59
	STA. 16+50.00	28.0	STA. 17+00.00	41.5	50	50
	TOTAL (STA. 12+50 TO STA. 25+00)					

NOTE: FOR GRAND TOTALS OF QUANTITIES, SEE QUANTITIES NOT OTHERWISE SHOWN



EROSION CONTROL PLAN
 STA. 10+00 TO STA. 25+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	55
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0369(104)
CONTRACT NO. B9323				

SEEDING QUANTITIES

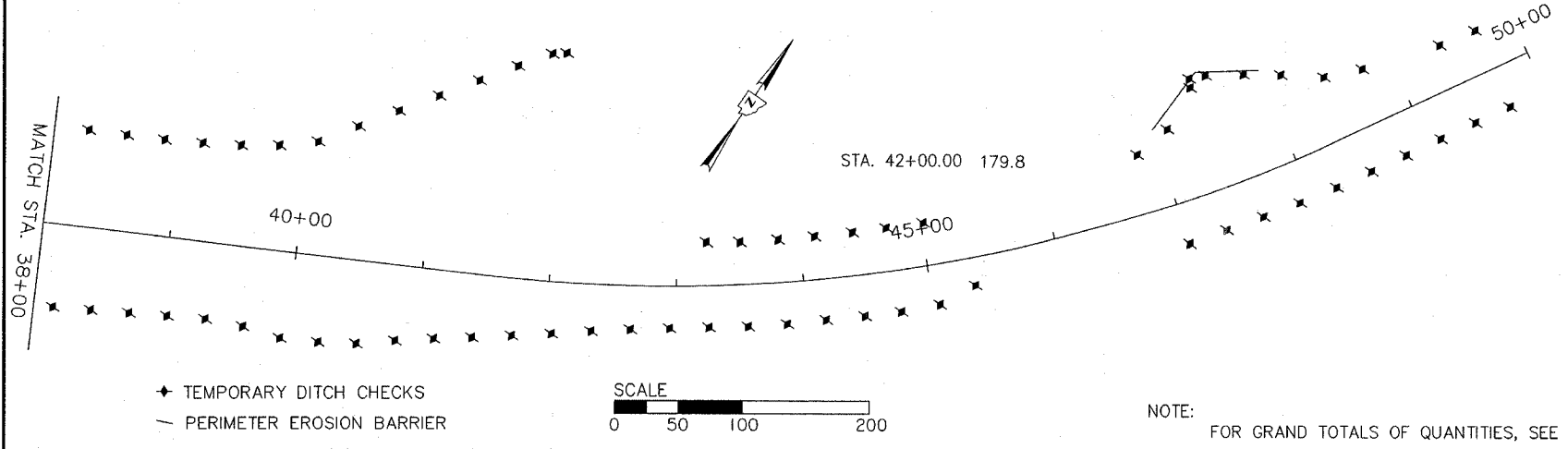
TEMPORARY DITCH CHECKS

LT/RT	FROM LOCATION	TO LOCATION	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 3 (ACRE)	TEMP. SEEDING (POUND)*	MULCH METHOD 2 (ACRE)**	NITROGEN FERTILIZER NUTRIENT (POUND)***	PHOSPHORUS FERTILIZER NUTRIENT (POUND)***	POTASSIUM FERTILIZER NUTRIENT (POUND)***	EROSION CONTROL BLANKET (HEAVY DUTY) (SQ. YD.)	
LT	STA. 38+00.00	STA. 38+50.00		0.10	11.40		9	9	9	484	
	STA. 38+50.00	STA. 39+00.00		0.16	18.24		14.4	14.4	14.4	774.4	
	STA. 39+00.00	STA. 39+50.00		0.20	22.80		18	18	18	968	
	STA. 39+50.00	STA. 40+00.00		0.17	19.38		15.3	15.3	15.3	822.8	
	STA. 40+00.00	STA. 40+50.00		0.20	22.80		18	18	18	968	
	STA. 40+50.00	STA. 41+00.00	0.25		28.50	0.50	22.5	22.5	22.5		
	STA. 41+00.00	STA. 41+50.00	0.26		29.64	0.52	23.4	23.4	23.4		
	STA. 41+50.00	STA. 42+00.00	0.25		28.50	0.50	22.5	22.5	22.5		
	STA. 42+00.00	STA. 42+50.00	0.22		25.08	0.44	19.8	19.8	19.8		
	STA. 42+50.00	STA. 43+00.00	0.10		11.40	0.20	9	9	9		
	STA. 43+00.00	STA. 43+50.00	0.03		3.42	0.06	2.7	2.7	2.7		
	STA. 43+50.00	STA. 44+00.00	0.03		3.42	0.06	2.7	2.7	2.7		
	STA. 44+00.00	STA. 44+50.00	0.03		3.42	0.06	2.7	2.7	2.7		
	STA. 44+50.00	STA. 45+00.00	0.03		3.42	0.06	2.7	2.7	2.7		
	STA. 45+00.00	STA. 45+50.00	0.04		4.56	0.08	3.6	3.6	3.6		
	STA. 45+50.00	STA. 46+00.00	0.05		5.70	0.10	4.5	4.5	4.5		
	STA. 46+00.00	STA. 46+50.00	0.04		4.56	0.08	3.6	3.6	3.6		
	STA. 46+50.00	STA. 47+00.00	0.05		5.70	0.10	4.5	4.5	4.5		
	STA. 47+00.00	STA. 47+50.00	0.07		7.98	0.14	6.3	6.3	6.3		
	STA. 47+50.00	STA. 48+00.00	0.08		9.12	0.16	7.2	7.2	7.2		
	STA. 48+00.00	STA. 48+50.00	0.06		6.84	0.12	5.4	5.4	5.4		
	STA. 48+50.00	STA. 49+00.00	0.05		5.70	0.10	4.5	4.5	4.5		
	STA. 49+00.00	STA. 49+50.00	0.03		3.42	0.06	2.7	2.7	2.7		
	STA. 49+50.00	STA. 50+00.00	0.03		3.42	0.06	2.7	2.7	2.7		
	RT	STA. 38+00.00	STA. 38+50.00		0.14	15.96		12.6	12.6	12.6	677.6
		STA. 38+50.00	STA. 39+00.00		0.13	14.82		11.7	11.7	11.7	629.2
		STA. 39+00.00	STA. 39+50.00		0.13	14.82		11.7	11.7	11.7	629.2
		STA. 39+50.00	STA. 40+00.00		0.12	13.68		10.8	10.8	10.8	580.8
STA. 40+00.00		STA. 40+50.00	0.11		12.54	0.22	9.9	9.9	9.9		
STA. 40+50.00		STA. 41+00.00	0.10		11.40	0.20	9	9	9		
STA. 41+00.00		STA. 41+50.00	0.09		10.26	0.18	8.1	8.1	8.1		
STA. 41+50.00		STA. 42+00.00	0.08		9.12	0.16	7.2	7.2	7.2		
STA. 42+00.00		STA. 42+50.00	0.07		7.98	0.14	6.3	6.3	6.3		
STA. 42+50.00		STA. 43+00.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 43+00.00		STA. 43+50.00	0.07		7.98	0.14	6.3	6.3	6.3		
STA. 43+50.00		STA. 44+00.00	0.11		12.54	0.22	9.9	9.9	9.9		
STA. 44+00.00		STA. 44+50.00	0.12		13.68	0.24	10.8	10.8	10.8		
STA. 44+50.00		STA. 45+00.00	0.12		13.68	0.24	10.8	10.8	10.8		
STA. 45+00.00		STA. 45+50.00	0.08		9.12	0.16	7.2	7.2	7.2		
STA. 45+50.00		STA. 46+00.00	0.04		4.56	0.08	3.6	3.6	3.6		
STA. 46+00.00		STA. 46+50.00	0.04		4.56	0.08	3.6	3.6	3.6		
STA. 46+50.00		STA. 47+00.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 47+00.00		STA. 47+50.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 47+50.00		STA. 48+00.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 48+00.00		STA. 48+50.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 48+50.00		STA. 49+00.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 49+00.00		STA. 49+50.00	0.06		6.84	0.12	5.4	5.4	5.4		
STA. 49+50.00		STA. 50+00.00	0.04		4.56	0.08	3.6	3.6	3.6		
TOTAL (STA. 38+00 TO STA. 50+00)				3.19	1.35	517.56	6.38	408.6	408.6	408.6	6534

LT/RT	LOCATION	OFFSET (FT.)	TEMPORARY DITCH CHECKS (EACH)
LT	STA. 38+27.00	76.9	1
	STA. 38+57.00	76.7	1
	STA. 38+87.00	76.5	1
	STA. 39+17.00	77.5	1
	STA. 39+47.00	79.3	1
	STA. 39+77.00	82.7	1
	STA. 40+07.00	89.1	1
	STA. 40+37.00	104.77	1
	STA. 40+67.00	120.4	1
	STA. 40+97.00	136.0	1
	STA. 41+27.00	151.6	1
	STA. 41+57.00	166.4	1
	STA. 41+87.00	178.4	1
	STA. 42+00.00	179.8	1
	STA. 43+22.00	33	1
	STA. 43+52.00	33	1
	STA. 43+82.00	33	1
	STA. 44+12.00	33	1
	STA. 44+42.00	33	1
	STA. 44+72.00	33	1
	STA. 45+00.00	33	1
	STA. 46+82.00	46.8	1
	STA. 47+12.00	58.2	1
	STA. 47+41.38	82.9	1
	STA. 47+43.23	89.9	1
	STA. 47+57.00	87.7	1
	STA. 47+87.00	77.5	1
	STA. 48+17.00	65.6	1
	STA. 48+47.00	49.7	1
	STA. 48+77.00	42.8	1
	STA. 49+40.00	34.1	1
	STA. 49+70.00	33	1
	RT	STA. 38+15.00	64.4
STA. 38+45.00		63.2	1
STA. 38+75.00		61.9	1
STA. 39+05.00		60.7	1
STA. 39+35.00		59.5	1
STA. 39+65.00		61.8	1
STA. 39+95.00		67.5	1
STA. 40+25.00		67.1	1
STA. 40+55.00		64.8	1
STA. 40+85.00		58.9	1
STA. 41+15.00		53.8	1
STA. 41+45.00		49.6	1
STA. 41+75.00		44.9	1
STA. 42+05.00		40.7	1
STA. 42+35.00		36.9	1
STA. 42+65.00		34.4	1
STA. 42+95.00		33.1	1
STA. 43+25.00		32.7	1
STA. 43+55.00		32.9	1
STA. 43+85.00		32.8	1
STA. 44+15.00		32.8	1
STA. 44+45.00		32.9	1
STA. 44+75.00		32.7	1
STA. 45+05.00	31.9	1	
STA. 45+35.00	21.9	1	
STA. 47+00.00	33	1	
STA. 47+30.00	33	1	
STA. 47+60.00	33	1	
STA. 47+90.00	33	1	
STA. 48+20.00	33	1	
STA. 48+50.00	33	1	
STA. 48+80.00	33	1	
STA. 49+10.00	33	1	
STA. 49+40.00	33	1	
STA. 49+70.00	33	1	
TOTAL (STA. 38+00 TO STA. 50+00)		67	

PERIMETER EROSION BARRIER

LT/RT	FROM LOCATION	OFFSET (FT.)	TO LOCATION	OFFSET (FT.)	LENGTH (FT.)	PERIMETER EROSION BARRIER (FT.)
LT	STA. 47+00.00	61.4	STA. 47+50.00	93	60	60
LT	STA. 47+50.00	93	STA. 48+00.00	76.1	53	53
TOTAL (STA. 38+00 TO STA. 50+00)					113	113



NOTE: FOR GRAND TOTALS OF QUANTITIES, SEE QUANTITIES NOT OTHERWISE SHOWN

**EROSION CONTROL PLAN
STA. 38+00 TO STA. 50+00
PEORIA COUNTY
STRUCTURE NO. 072-3145**

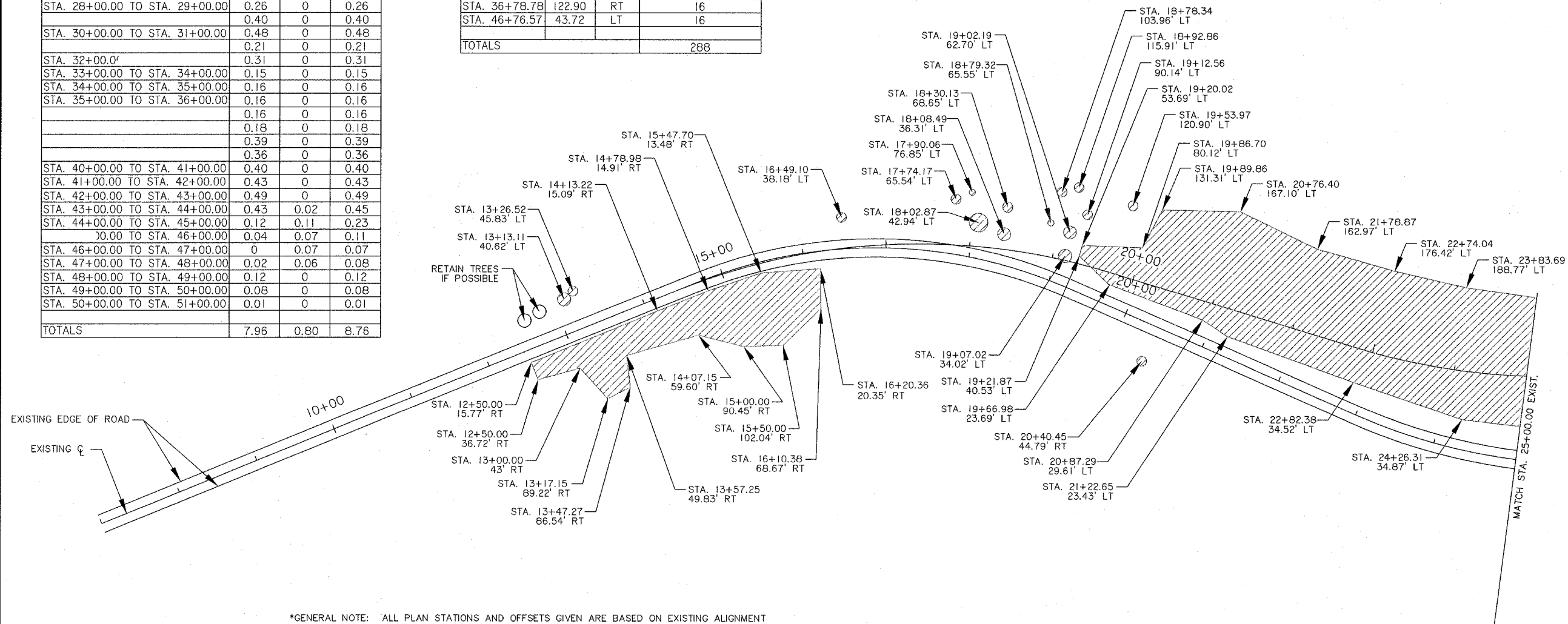
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	56
FED. ROAD DIST. NO.		7 ILLINOIS	PROJECT: BRS-0389(104)	
CONTRACT NO. 89323				

TREE REMOVAL (ACRES)

LOCATION (EXISTING STATIONING)	TREE REMOVAL (ACRES)		
	LEFT	RIGHT	TOTAL
STA. 12+50.00 TO STA. 13+00.00	0	0.03	0.03
STA. 13+00.00 TO STA. 14+00.00	0	0.13	0.13
STA. 14+00.00 TO STA. 15+00.00	0	0.12	0.12
STA. 15+00.00 TO STA. 16+00.00	0	0.17	0.17
STA. 16+00.00 TO STA. 17+00.00	0	0.02	0.02
STA. 17+00.00 TO STA. 18+00.00	0	0	0
STA. 18+00.00 TO STA. 19+00.00	0	0	0
STA. 19+00.00 TO STA. 20+00.00	0.10	0	0.10
STA. 20+00.00 TO STA. 21+00.00	0.30	0	0.30
STA. 21+00.00 TO STA. 22+00.00	0.32	0	0.32
STA. 22+00.00 TO STA. 23+00.00	0.33	0	0.33
STA. 23+00.00 TO STA. 24+00.00	0.29	0	0.29
STA. 24+00.00 TO STA. 25+00.00	0.31	0	0.31
STA. 25+00.00 TO STA. 26+00.00	0.32	0	0.32
STA. 26+00.00 TO STA. 27+00.00	0.33	0	0.33
STA. 27+00.00 TO STA. 28+00.00	0.30	0	0.30
STA. 28+00.00 TO STA. 29+00.00	0.26	0	0.26
	0.40	0	0.40
STA. 30+00.00 TO STA. 31+00.00	0.48	0	0.48
	0.21	0	0.21
STA. 32+00.00	0.31	0	0.31
STA. 33+00.00 TO STA. 34+00.00	0.15	0	0.15
STA. 34+00.00 TO STA. 35+00.00	0.16	0	0.16
STA. 35+00.00 TO STA. 36+00.00	0.16	0	0.16
	0.16	0	0.16
	0.18	0	0.18
	0.39	0	0.39
	0.36	0	0.36
STA. 40+00.00 TO STA. 41+00.00	0.40	0	0.40
STA. 41+00.00 TO STA. 42+00.00	0.43	0	0.43
STA. 42+00.00 TO STA. 43+00.00	0.49	0	0.49
STA. 43+00.00 TO STA. 44+00.00	0.43	0.02	0.45
STA. 44+00.00 TO STA. 45+00.00	0.12	0.11	0.23
STA. 45+00.00 TO STA. 46+00.00	0.04	0.07	0.11
STA. 46+00.00 TO STA. 47+00.00	0	0.07	0.07
STA. 47+00.00 TO STA. 48+00.00	0.02	0.06	0.08
STA. 48+00.00 TO STA. 49+00.00	0.12	0	0.12
STA. 49+00.00 TO STA. 50+00.00	0.08	0	0.08
STA. 50+00.00 TO STA. 51+00.00	0.01	0	0.01
TOTALS	7.96	0.80	8.76

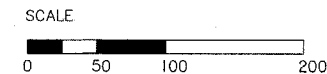
TREE REMOVAL

LOCATION	OFFSET (FEET)	LT/RT	OVER 15 UNITS DIA. (UNIT)
STA. 13+13.11	40.62	LT	16
STA. 13+26.52	45.83	LT	16
STA. 16+49.10	38.18	LT	16
STA. 17+74.17	65.54	LT	16
STA. 17+90.06	76.85	LT	16
STA. 18+02.87	42.94	LT	16
STA. 18+08.49	36.31	LT	16
STA. 18+30.13	68.65	LT	16
STA. 18+78.34	103.96	LT	16
STA. 18+79.32	65.55	LT	16
STA. 18+92.86	115.91	LT	16
STA. 19+02.19	62.70	LT	16
STA. 19+07.02	34.02	LT	16
STA. 19+12.56	90.14	LT	16
STA. 19+53.97	120.90	LT	16
STA. 20+40.45	44.79	RT	16
STA. 36+78.78	122.90	RT	16
STA. 46+76.57	43.72	LT	16
TOTALS			288



*GENERAL NOTE: ALL PLAN STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 QUANTITY STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 TREE REPLACEMENT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

TREE REMOVAL

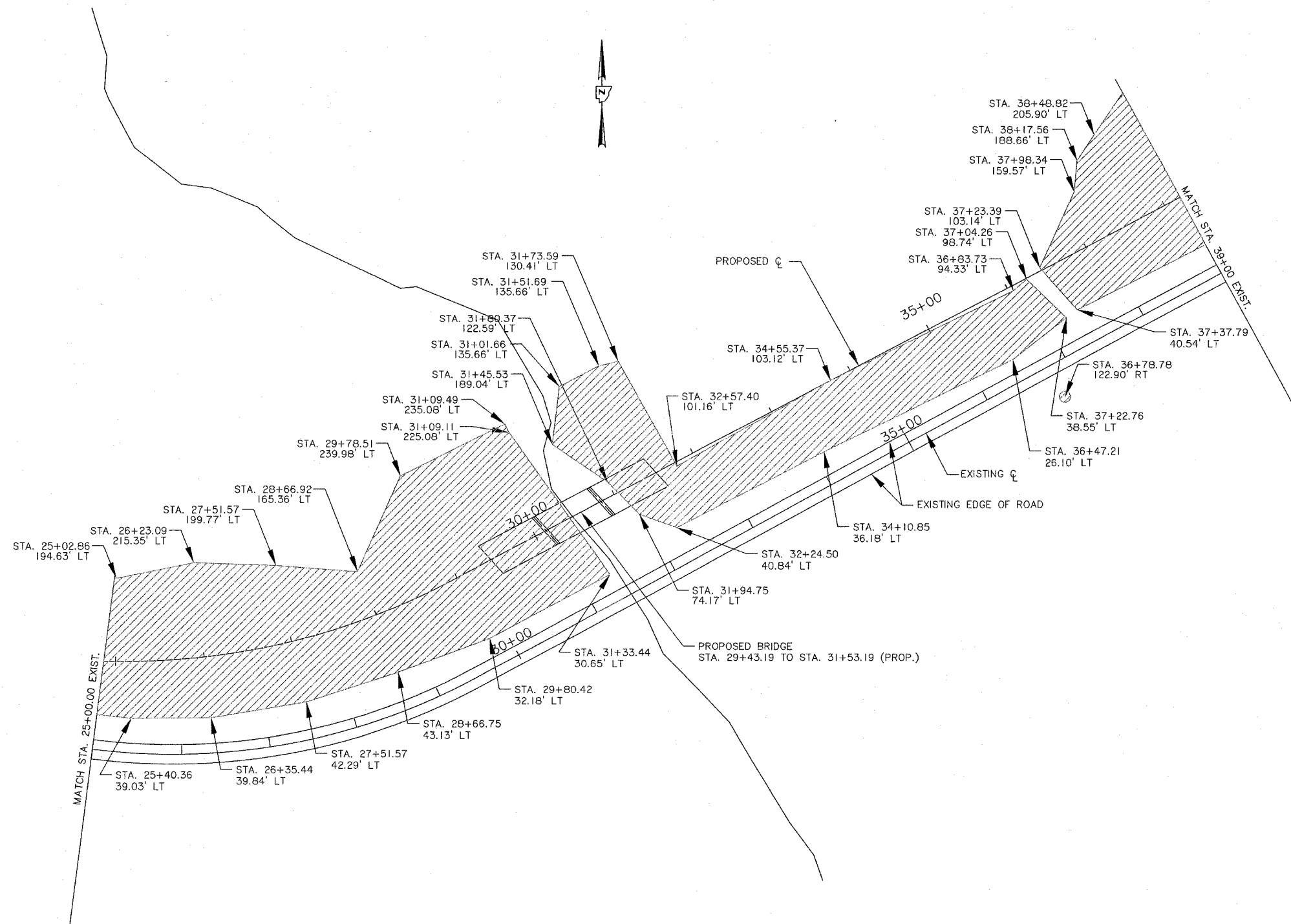


TREE REMOVAL DETAIL
 STA. 7+00 TO STA. 25+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	57
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

*GENERAL NOTE: ALL PLAN STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 QUANTITY STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 TREE REPLACEMENT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

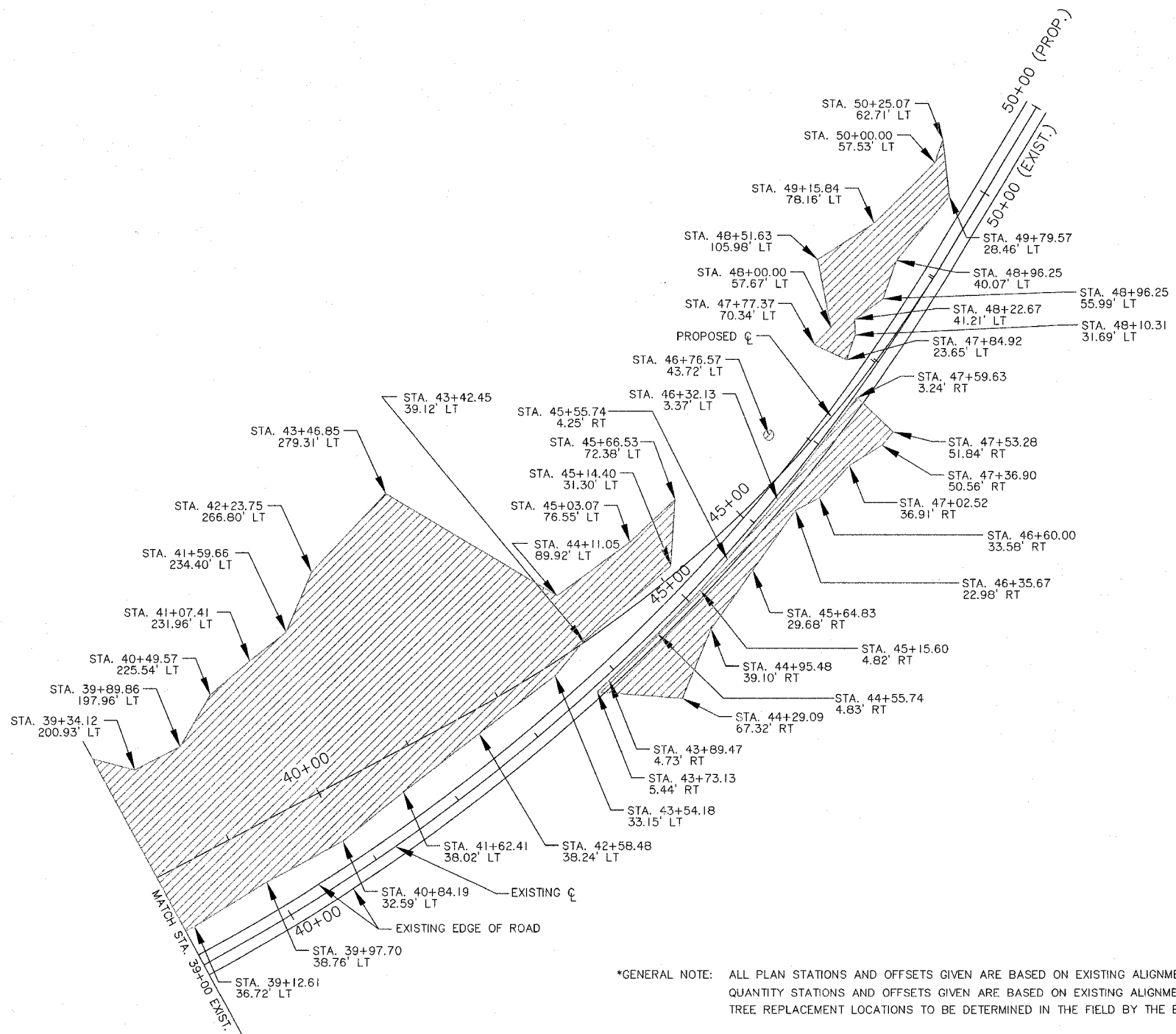
 TREE REMOVAL



SCALE
 0 50 100 200

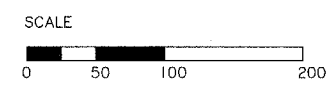
TREE REMOVAL DETAIL
 STA. 25+00 TO STA. 38+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	58
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT:	BRS-0399(104)	
CONTRACT NO. 89323				



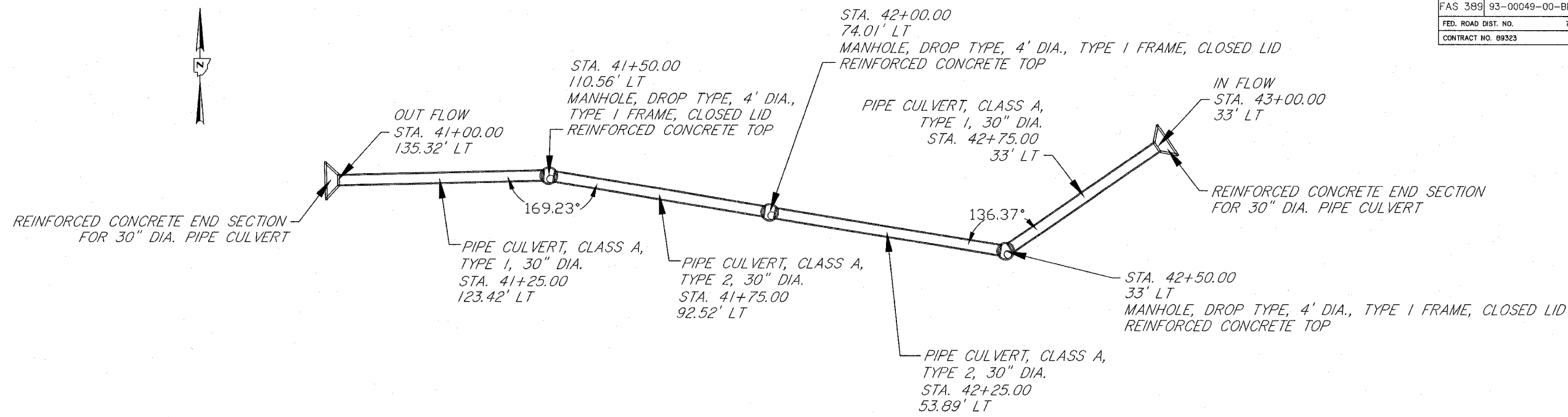
*GENERAL NOTE: ALL PLAN STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 QUANTITY STATIONS AND OFFSETS GIVEN ARE BASED ON EXISTING ALIGNMENT
 TREE REPLACEMENT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER

TREE REMOVAL

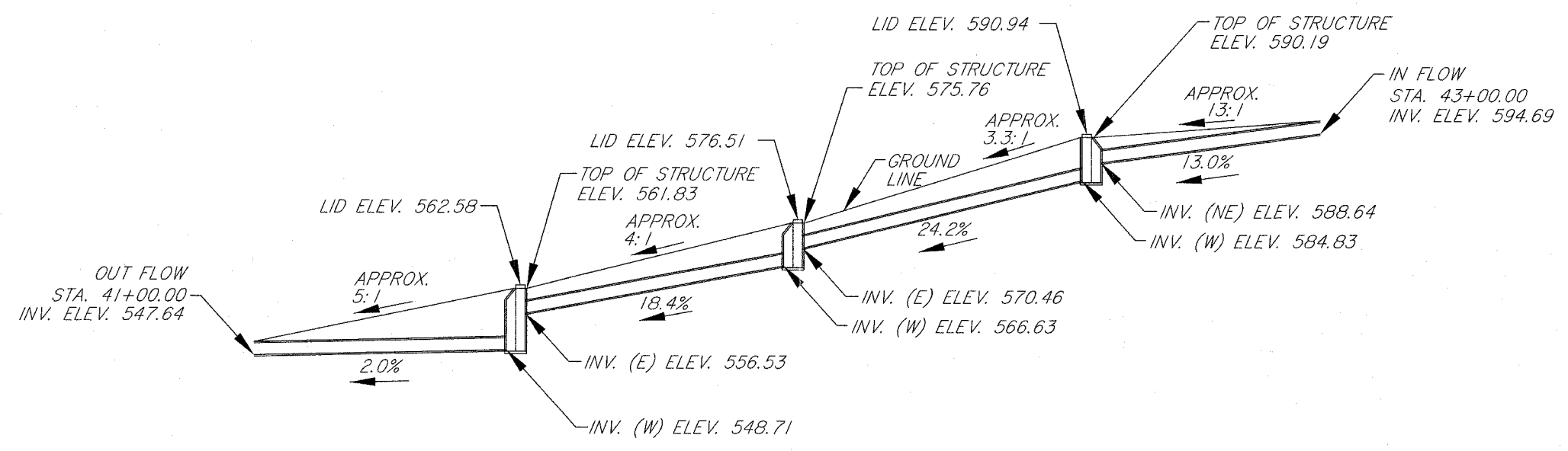


TREE REMOVAL DETAIL
 STA. 38+00 TO STA. 50+00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	59
FED. ROAD DIST. NO.	7	ILLINOIS PROJECT	BRS-0389(104)	
CONTRACT NO. 89323				



PLAN VIEW



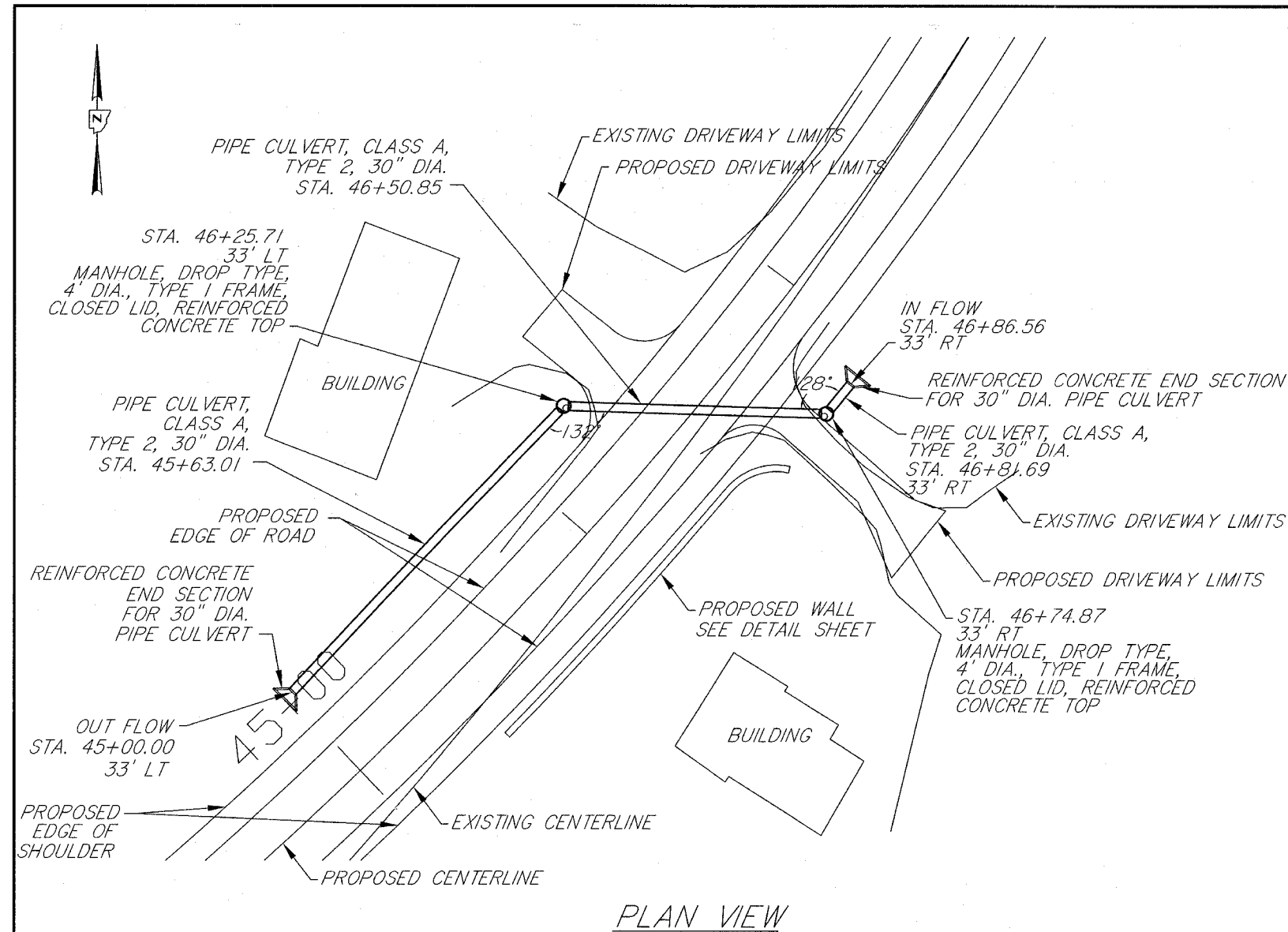
PROFILE VIEW

DROP BOX DETAIL
 STA. 41+00.00 TO STA. 43+00.00
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

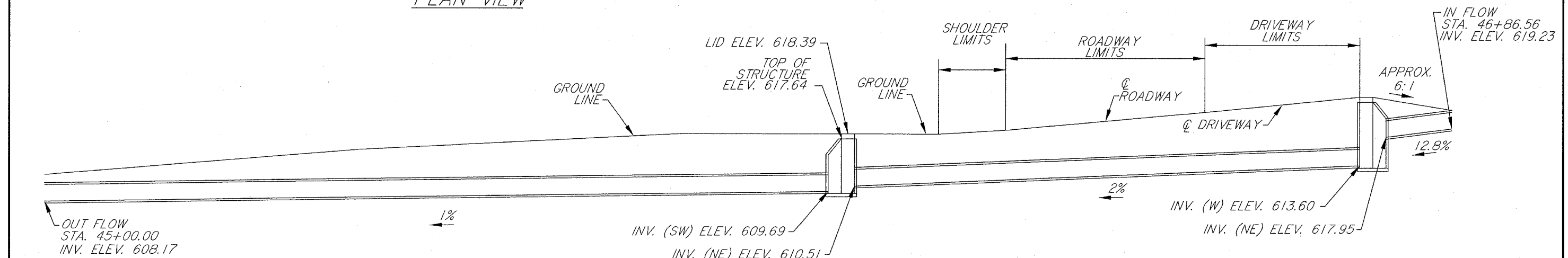
NOTE: STATION & OFFSET MEASURED FROM CENTER OF MANHOLE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	60
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

NOTE: STATION & OFFSET MEASURED FROM CENTER OF MANHOLE



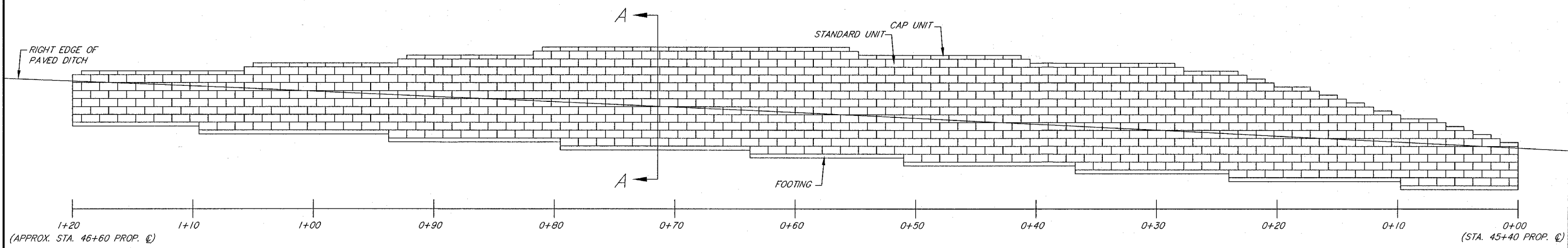
PLAN VIEW



PROFILE VIEW

DROP BOX DETAIL
 STA. 46+21.40 TO STA. 46+86.56
 PEORIA COUNTY
 STRUCTURE NO. 072-3145

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	61
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				



FRONT ELEVATION

MODULAR RETAINING WALL SYSTEM	
SQ.FT.	862

GENERAL NOTES:

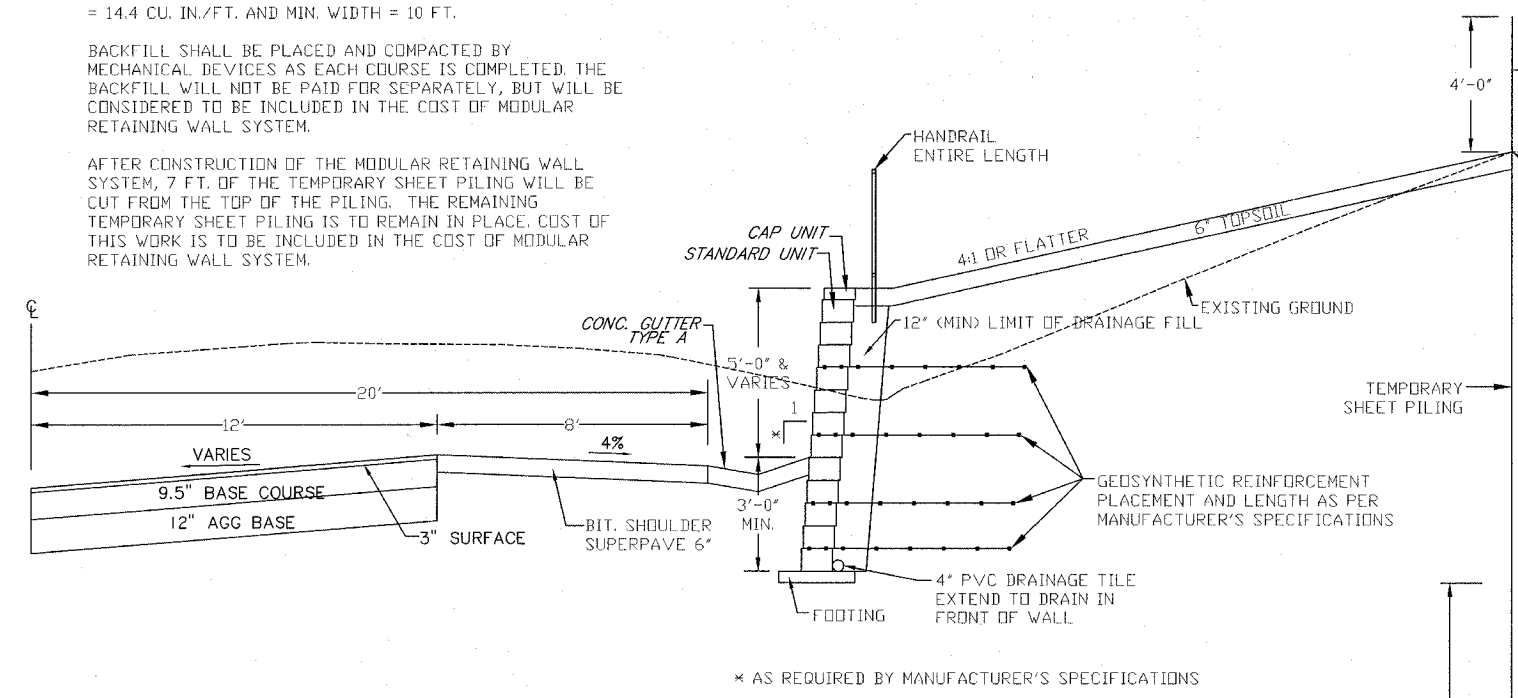
EXCAVATION FOR THE MODULAR RETAINING WALL SYSTEM IS TO BE INCLUDED IN THE COST OF MODULAR RETAINING WALL SYSTEM.

TOPSOIL IS TO BE PLACED AT THE TOP OF THE MODULAR RETAINING WALL SYSTEM ALONG THE ENTIRE LENGTH AT A THICKNESS OF 6". FURNISHING AND PLACING TOPSOIL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED TO BE INCLUDED IN THE COST OF MODULAR RETAINING WALL SYSTEM.

FOR TEMPORARY SHEET PILING MIN. SECTION MODULUS = 14.4 CU. IN./FT. AND MIN. WIDTH = 10 FT.

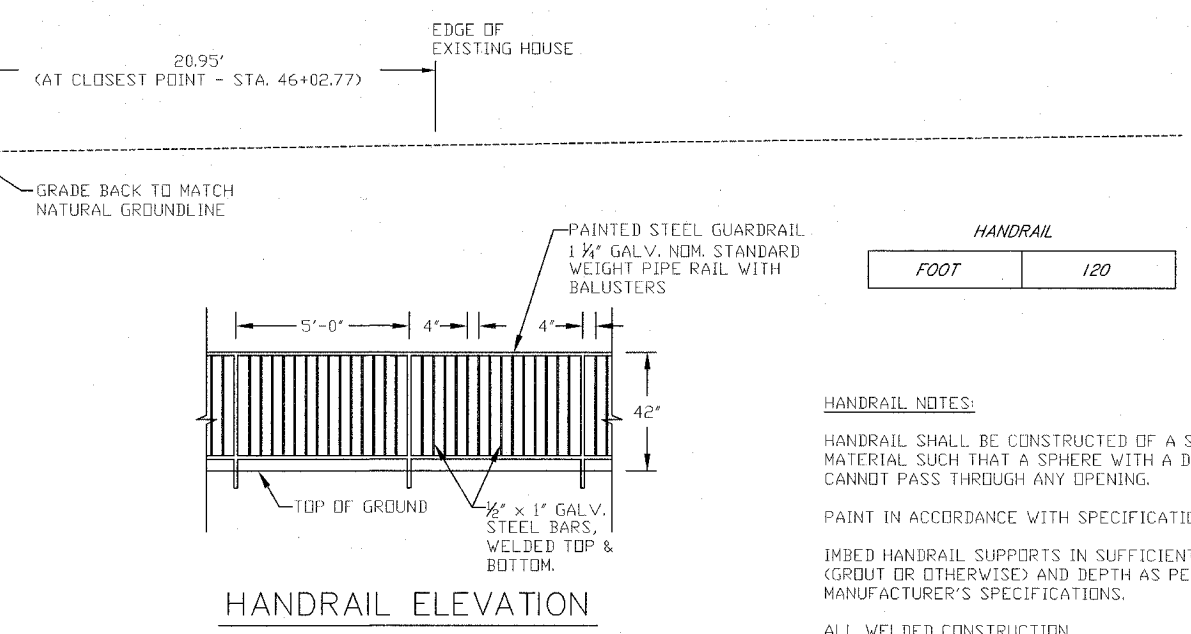
BACKFILL SHALL BE PLACED AND COMPACTED BY MECHANICAL DEVICES AS EACH COURSE IS COMPLETED. THE BACKFILL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED TO BE INCLUDED IN THE COST OF MODULAR RETAINING WALL SYSTEM.

AFTER CONSTRUCTION OF THE MODULAR RETAINING WALL SYSTEM, 7 FT. OF THE TEMPORARY SHEET PILING WILL BE CUT FROM THE TOP OF THE PILING. THE REMAINING TEMPORARY SHEET PILING IS TO REMAIN IN PLACE. COST OF THIS WORK IS TO BE INCLUDED IN THE COST OF MODULAR RETAINING WALL SYSTEM.



SECTION A - A

NOTE: DIST. FROM DITCH CL TO WALL VARIES STA. 46+40 TO STA. 46+60



HANDRAIL	
FOOT	120

HANDRAIL NOTES:

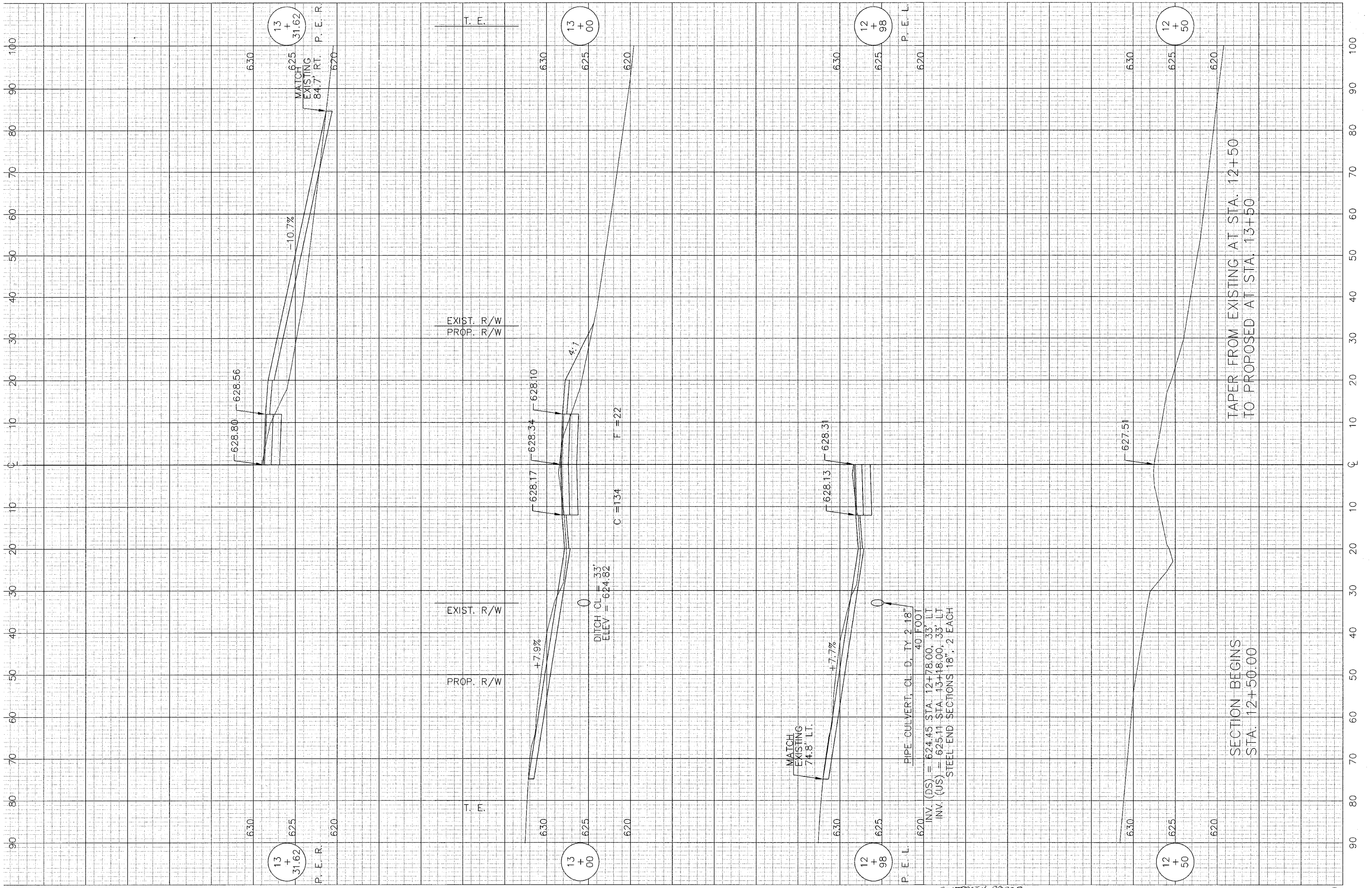
HANDRAIL SHALL BE CONSTRUCTED OF A SOLID METAL MATERIAL SUCH THAT A SPHERE WITH A DIAMETER OF 4" CANNOT PASS THROUGH ANY OPENING.

PAINT IN ACCORDANCE WITH SPECIFICATIONS.

IMBED HANDRAIL SUPPORTS IN SUFFICIENT MATERIAL (GROUT OR OTHERWISE) AND DEPTH AS PER MANUFACTURER'S SPECIFICATIONS.

ALL WELDED CONSTRUCTION.

MODULAR RETAINING WALL SYSTEM
 STA. 45+40 TO STA. 46+60
 PEORIA COUNTY
 STRUCTURE NO. 072-3145



13
+
31.62

P. E. R. 620 625 630

T. E.

13
+
00

EXIST. R/W
PROP. R/W

620 625 630

DITCH CL = 33'
ELEV = 624.82

C = 134 F = 22

12
+
98

P. E. L. 620 625 630

PIPE CULVERT, CL D. 40' TY 2 18" 40' FOOT

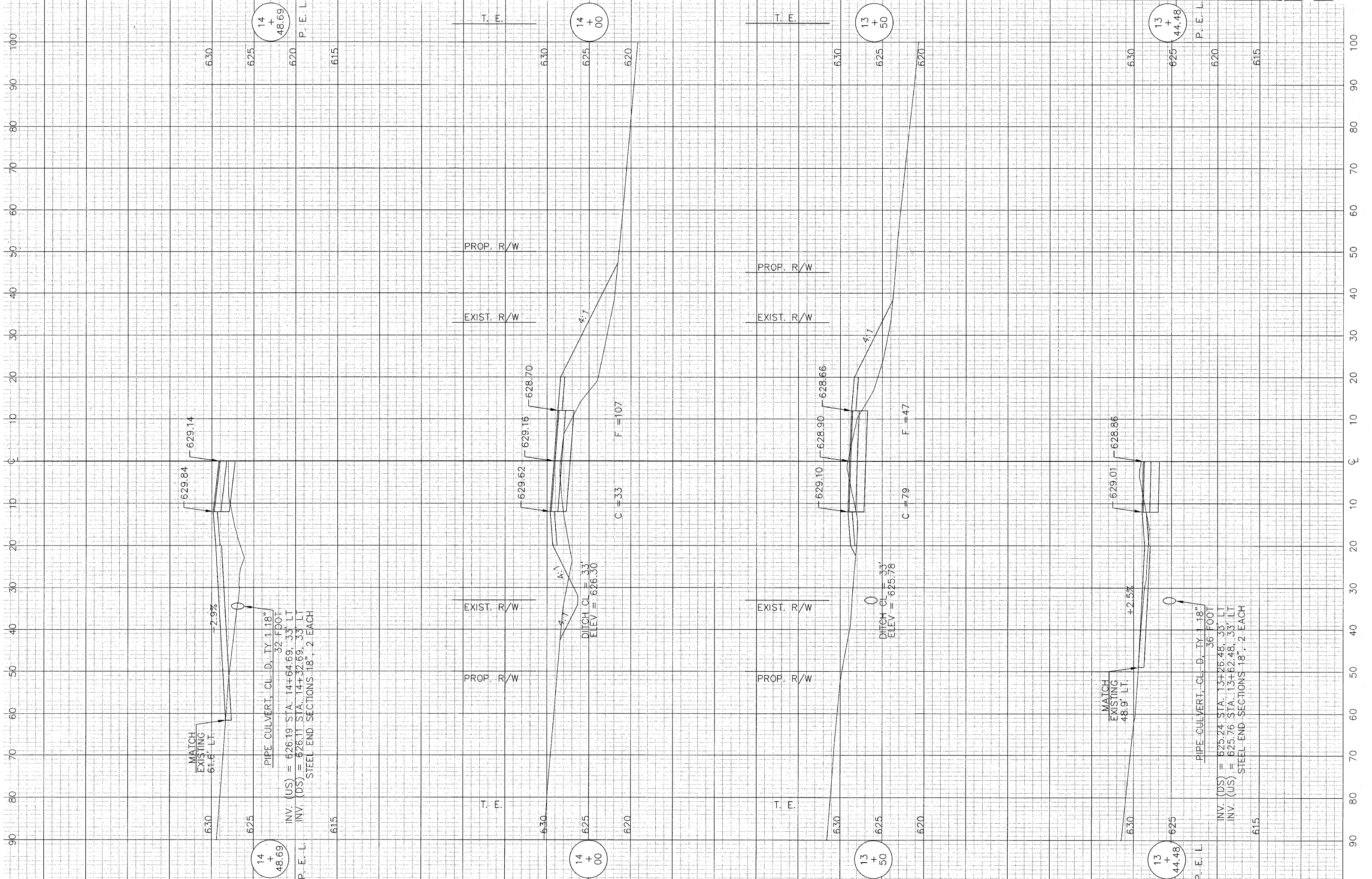
INV. (DS) = 624.45 STA. 12+78.00, 33' LT
INV. (US) = 625.11 STA. 13+18.00, 33' LT
STEEL END SECTIONS 18" x 2 EACH

12
+
50

620 625 630

TAPER FROM EXISTING AT STA. 12+50
TO PROPOSED AT STA. 13+50

SECTION BEGINS
STA. 12+50.00



14
+
48.69

PIPE CULVERT, CL. D. TY 1 18"
32 FOOT
INV. (US) = 626.19 STA. 14+64.69, 33' LT
INV. (DS) = 626.11 STA. 14+32.69, 33' LT
STEEL END SECTIONS 18", 2 EACH

MATCH
EXISTING
61.6' LT.

629.84
629.14

-2.9%

630

625

620

615

14
+
48.69
P. E. L.

T. E.

PROP. R/W

EXIST. R/W

EXIST. R/W

PROP. R/W

T. E.

14
+
00

DITCH CL = 33'
ELEV = 626.30

629.62
629.16
628.70

C = 33
F = 107

4:1

630

625

620

14
+
00

T. E.

PROP. R/W

EXIST. R/W

EXIST. R/W

PROP. R/W

T. E.

13
+
50

DITCH CL = 33'
ELEV = 625.78

629.10
628.90
628.66

C = 79
F = 47

4:1

630

625

620

13
+
50

13
+
44.48

PIPE CULVERT, CL. D. TY 1 18"
36 FOOT
INV. (DS) = 625.24 STA. 13+26.48, 33' LT
INV. (US) = 625.76 STA. 13+62.48, 33' LT
STEEL END SECTIONS 18", 2 EACH

MATCH
EXISTING
48.9' LT.

+2.5%

629.01
628.86

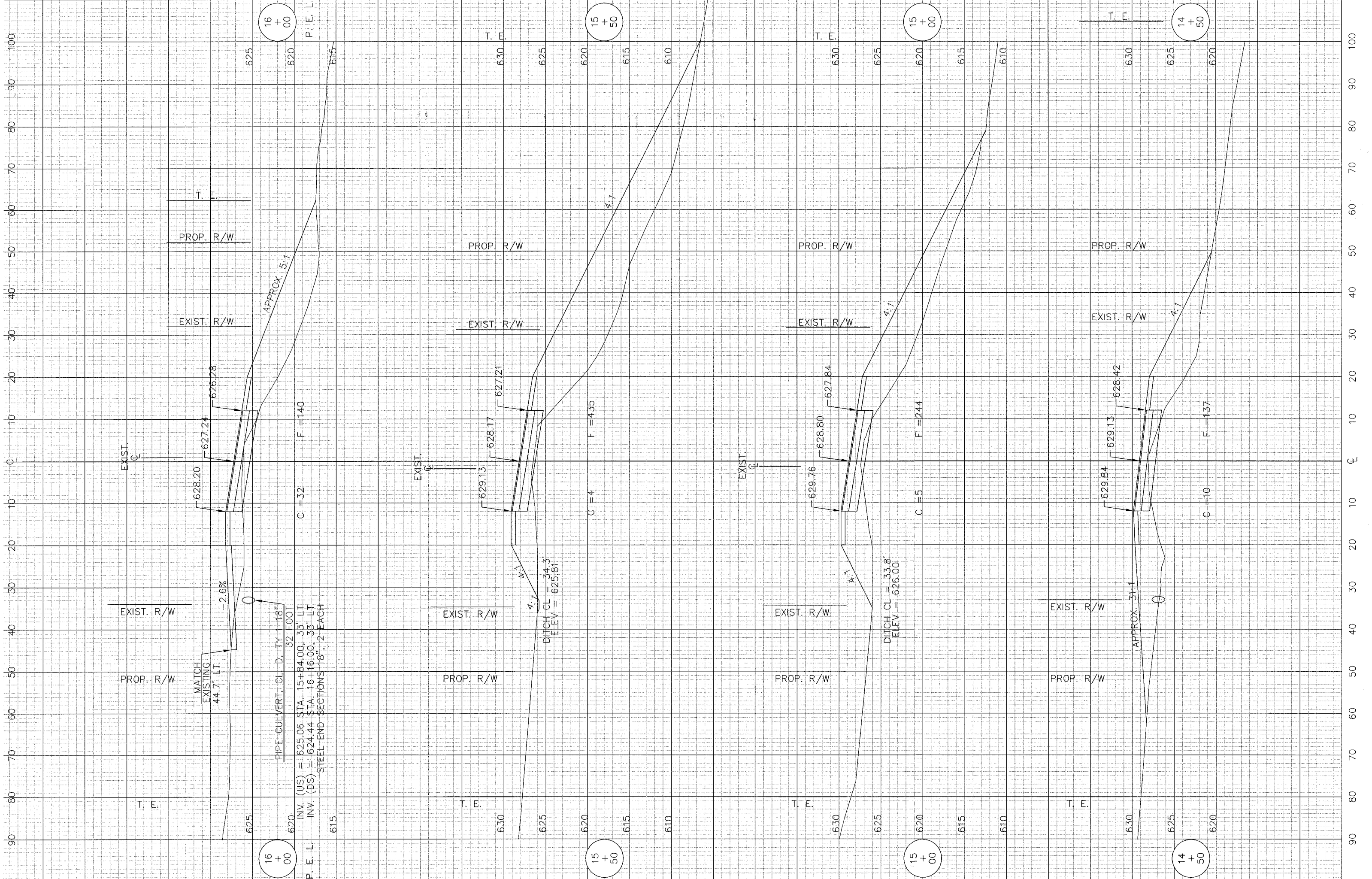
630

625

620

615

13
+
44.48
P. E. L.



16
+
00

15
+
50

15
+
00

14
+
50

16
+
00

15
+
50

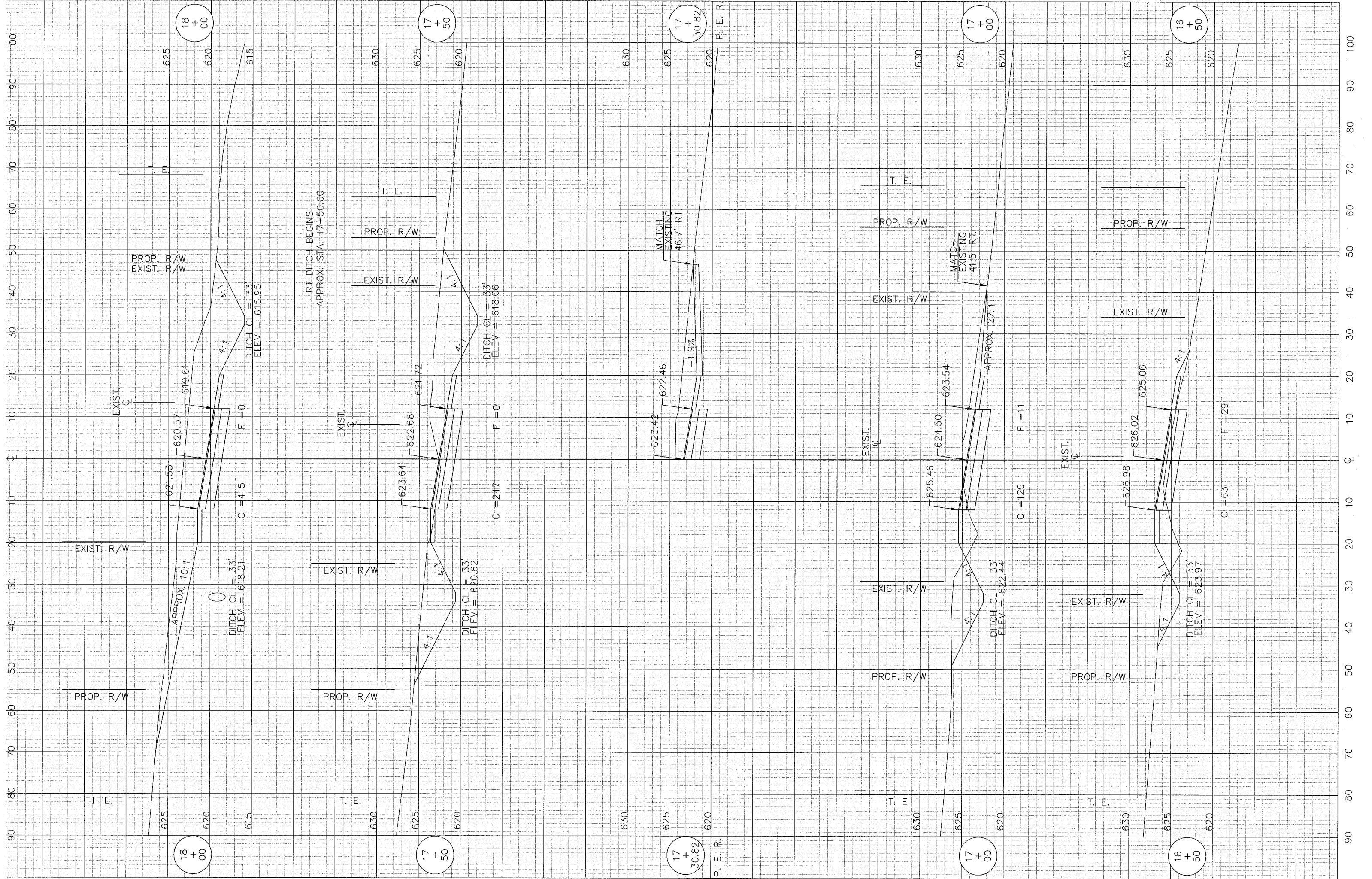
15
+
00

14
+
50

P. E. L.
INV. (US) = 625.06 STA. 15+84.00, 33' LT.
INV. (DS) = 624.44 STA. 16+16.00, 33' LT.
STEEL END SECTIONS 18' - 2' EACH

DITCH CL = 34.3'
ELEV = 625.81'

DITCH CL = 33.8'
ELEV = 626.00'



18
+
00

17
+
50

17
+
30.82

17
+
00

16
+
50

PROP. R/W
EXIST. R/W

PROP. R/W
EXIST. R/W

PROP. R/W
EXIST. R/W

PROP. R/W
EXIST. R/W

APPROX. 10:1
DITCH CL = 33'
ELEV = 618.21

APPROX. 10:1
DITCH CL = 33'
ELEV = 620.62

APPROX. 27:1
DITCH CL = 33'
ELEV = 622.44

APPROX. 27:1
DITCH CL = 33'
ELEV = 623.97

DITCH CL = 33'
ELEV = 615.95

DITCH CL = 33'
ELEV = 618.06

C = 415
F = 0

C = 247
F = 0

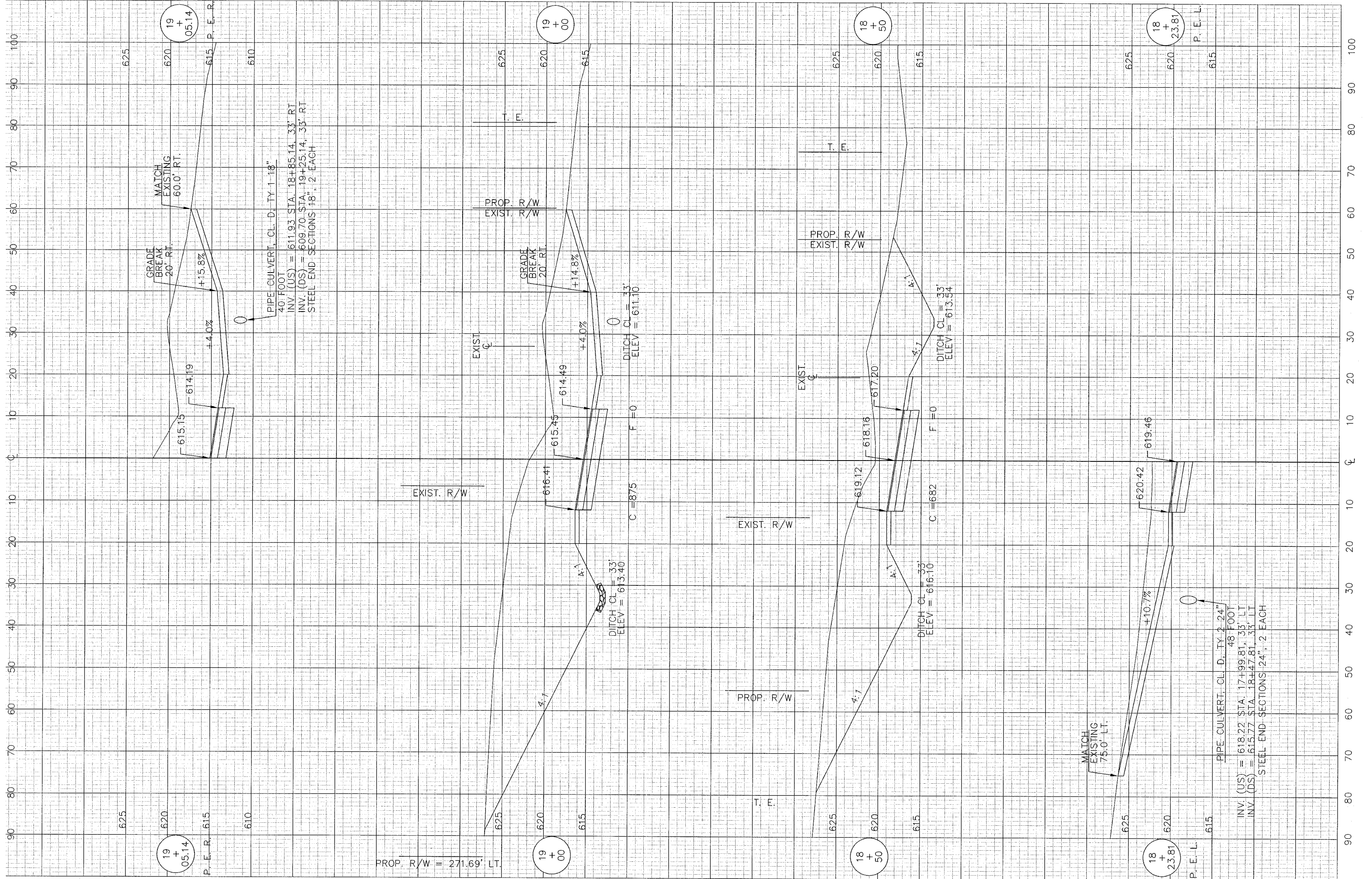
C = 129
F = 11

C = 63
F = 29

RT DITCH BEGINS
APPROX. STA. 17+50:00

MATCH
EXISTING
46.7' RT.

MATCH
EXISTING
41.5' RT.



19 + 05.14
P. E. R.

19 + 05.14
P. E. R.

PIPE CULVERT, CL. D. TY 1-18"
40 FOOT
INV. (US) = 611.93 STA. 18+85.14, 33' RT
INV. (DS) = 609.70 STA. 19+25.14, 33' RT
STEEL END SECTIONS 18", 2 EACH

PIPE CULVERT, CL. D. TY 2-24"
48 FOOT
INV. (US) = 618.22 STA. 17+99.81, 33' LT
INV. (DS) = 615.77 STA. 18+47.81, 33' LT
STEEL END SECTIONS 24", 2 EACH

19 + 00
T. E.

19 + 00
T. E.

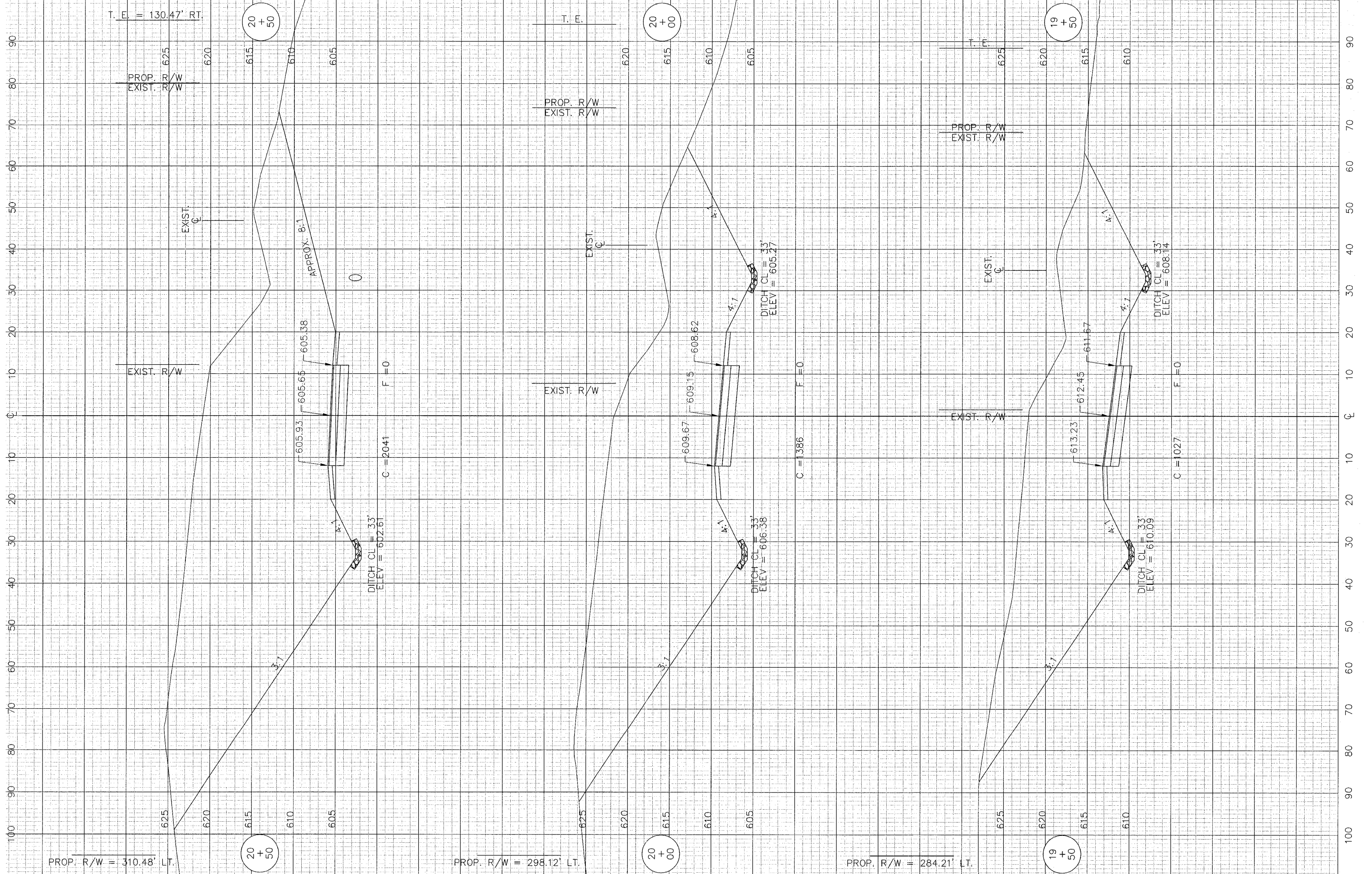
18 + 50
T. E.

18 + 50
T. E.

18 + 23.81
P. E. L.

18 + 23.81
P. E. L.

PROP. R/W = 271.69' LT.



T. E. = 130.47' RT.

T. E.

T. E.

PROP. R/W = 310.48' LT.

PROP. R/W = 298.12' LT.

PROP. R/W = 284.21' LT.

20 + 50

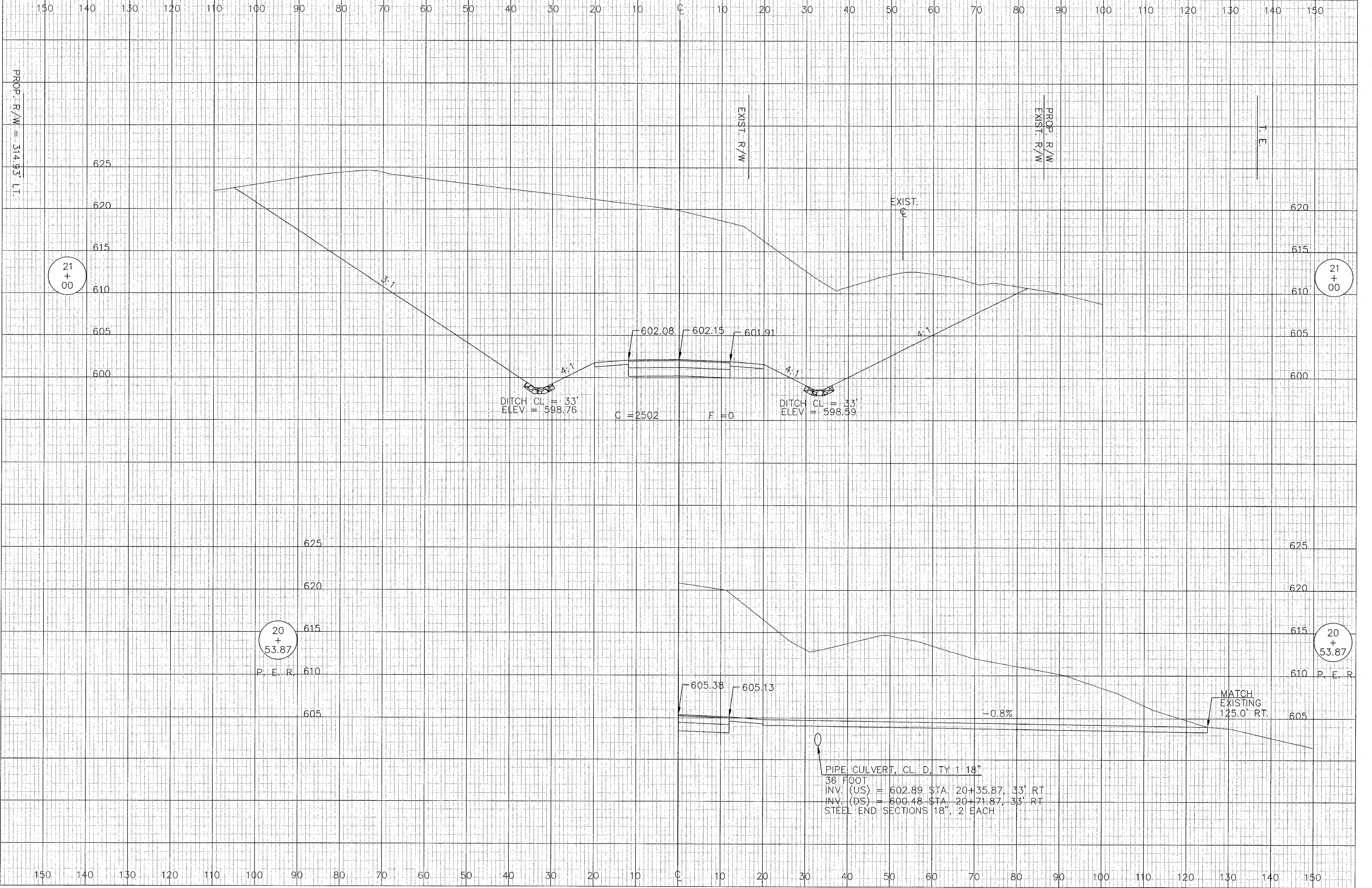
20 + 00

19 + 50

20 + 50

20 + 00

19 + 50



PROP. R/W = 314.95' LT.

EXIST. R/W

PROP. R/W
EXIST. R/W

T. E.

21
+
00

21
+
00

20
+
53.87

20
+
53.87

P. E. R.

P. E. R.

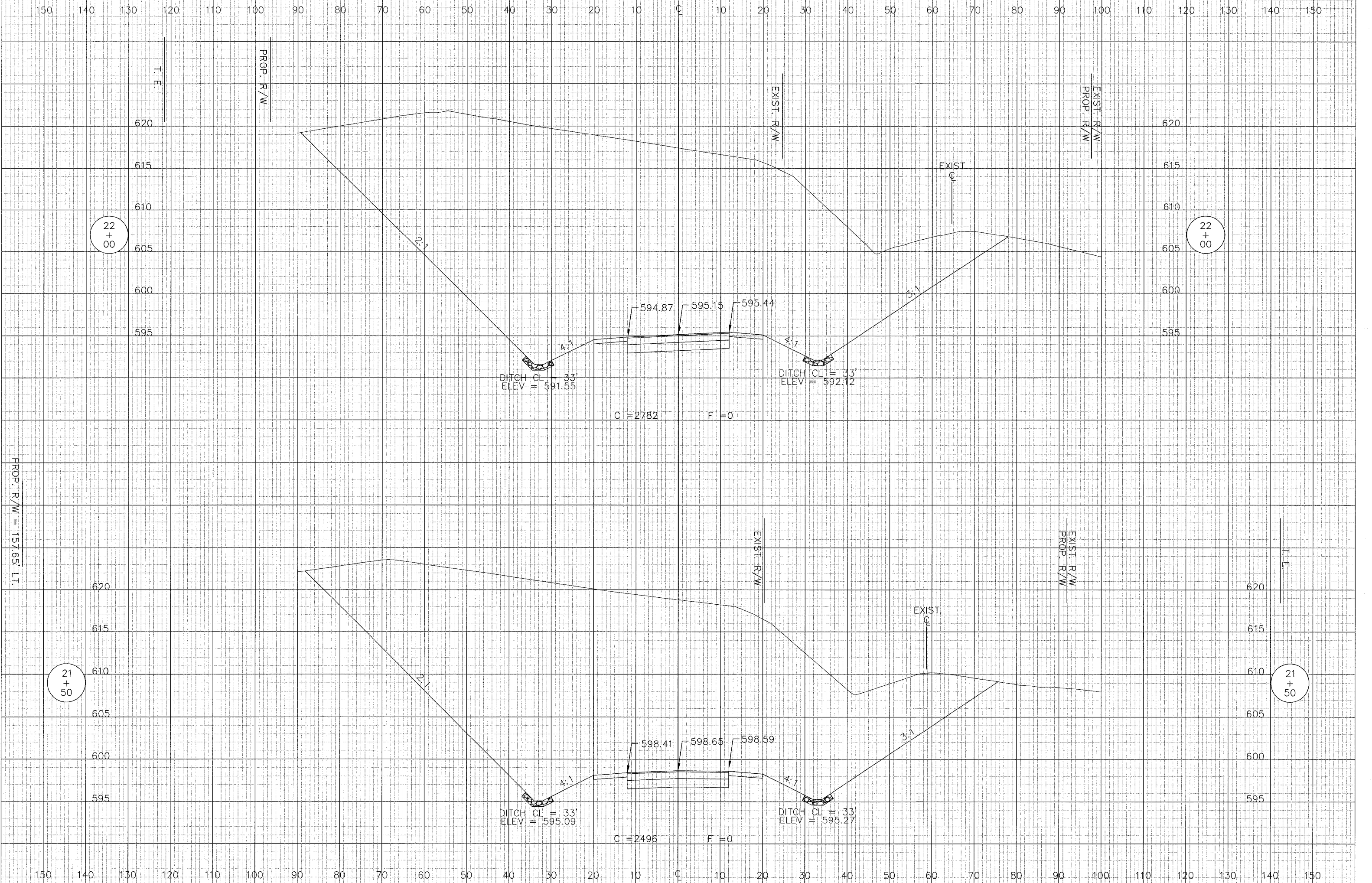
DITCH CL = 33'
ELEV = 598.76

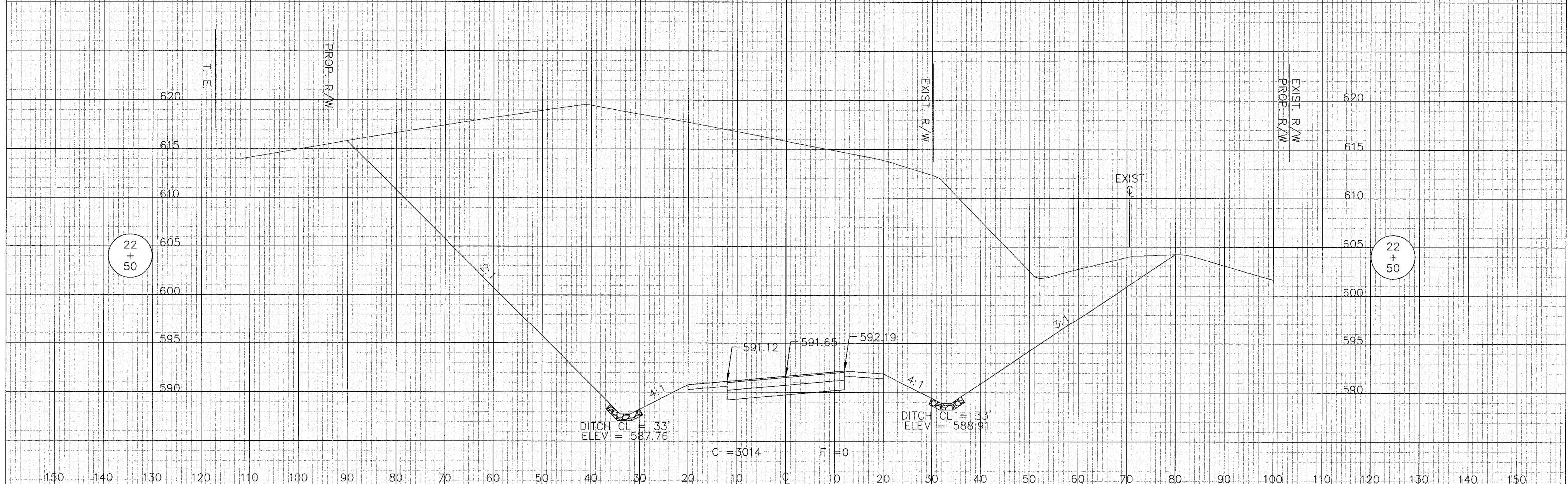
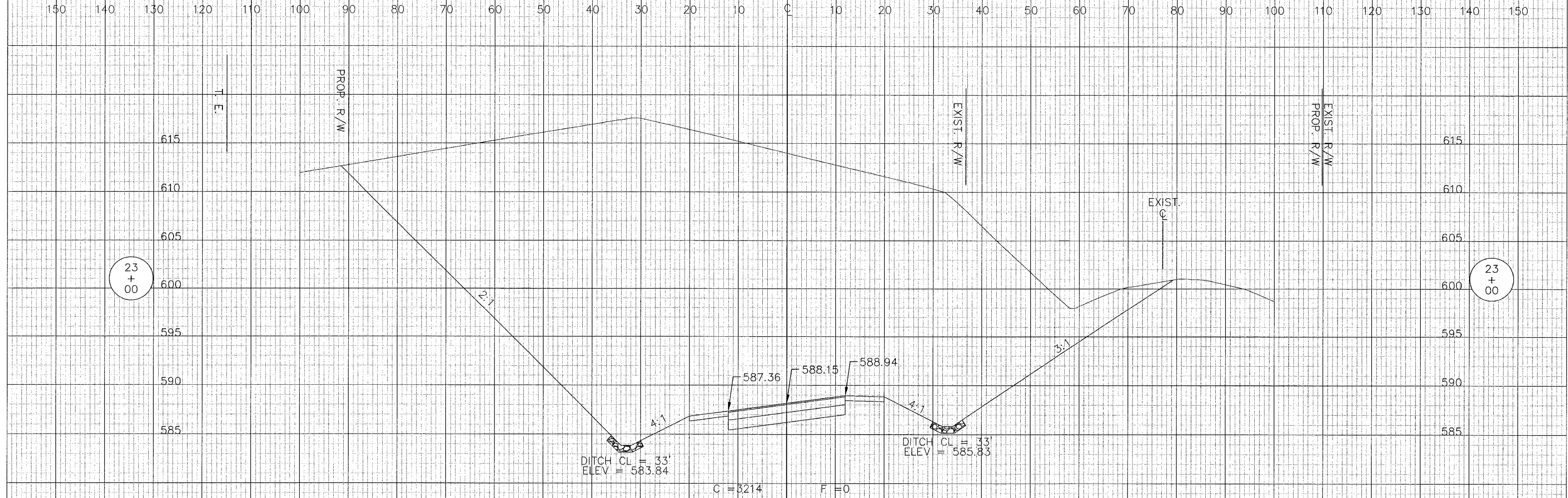
DITCH CL = 33'
ELEV = 598.59

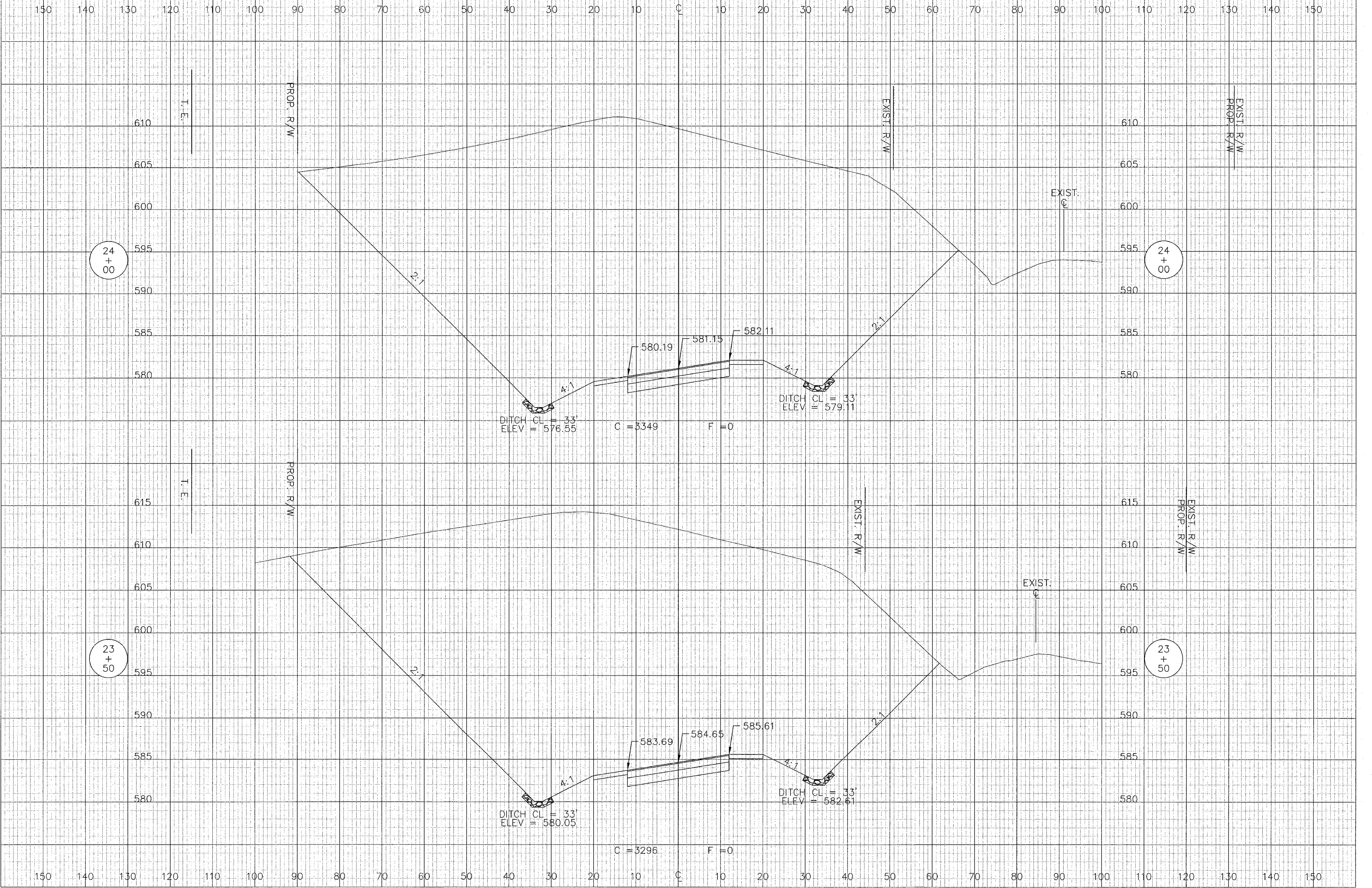
C = 2502 F = 0

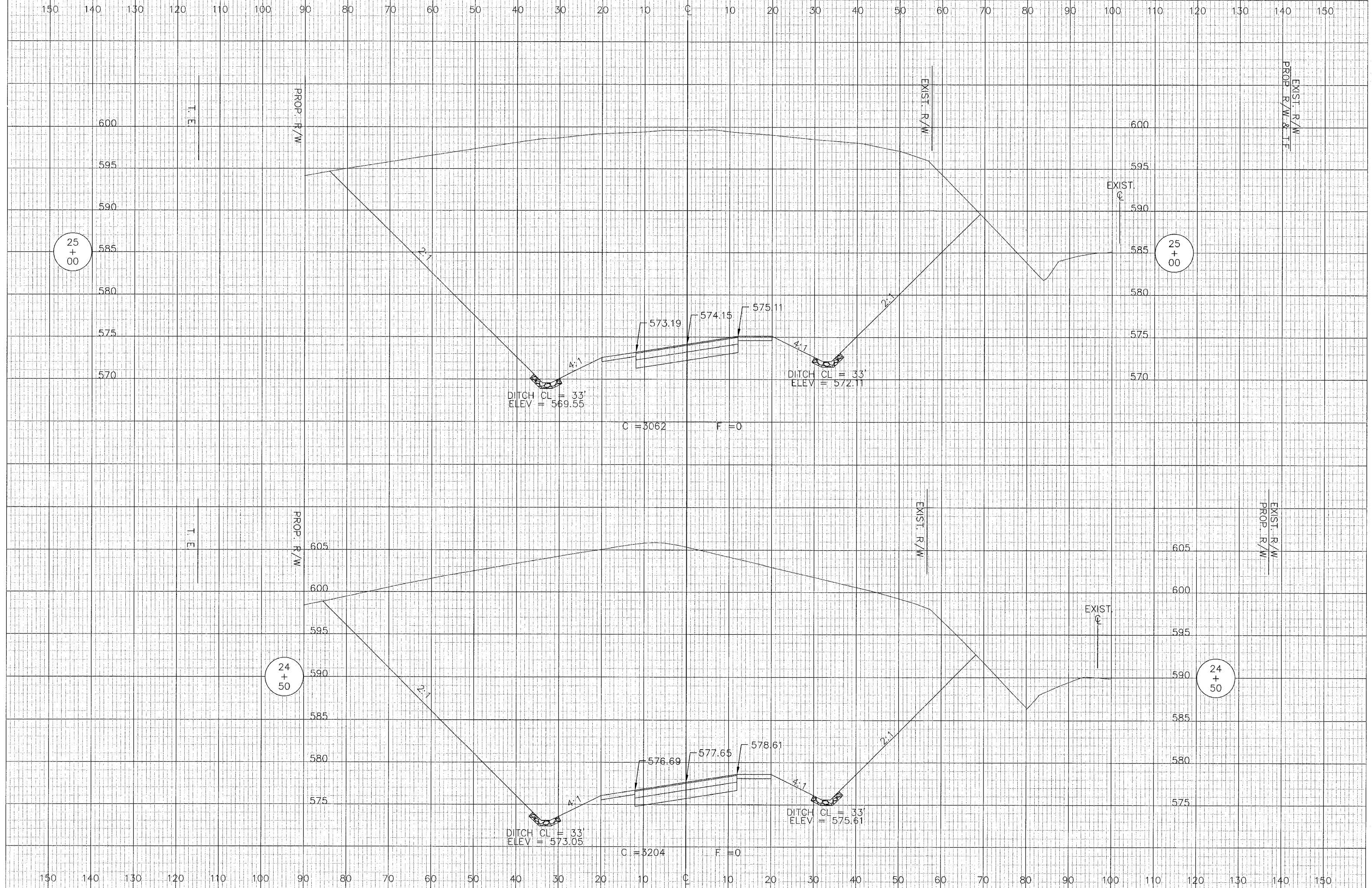
PIPE CULVERT, CL. D, TY 1 18"
36 FOOT
INV. (US) = 602.89 STA. 20+35.87, 33' RT
INV. (DS) = 600.48 STA. 20+71.87, 33' RT
STEEL END SECTIONS 18", 2 EACH

MATCH
EXISTING
125.0' RT.









25
+
00

25
+
00

24
+
50

24
+
50

DITCH CL = 33'
ELEV = 569.55

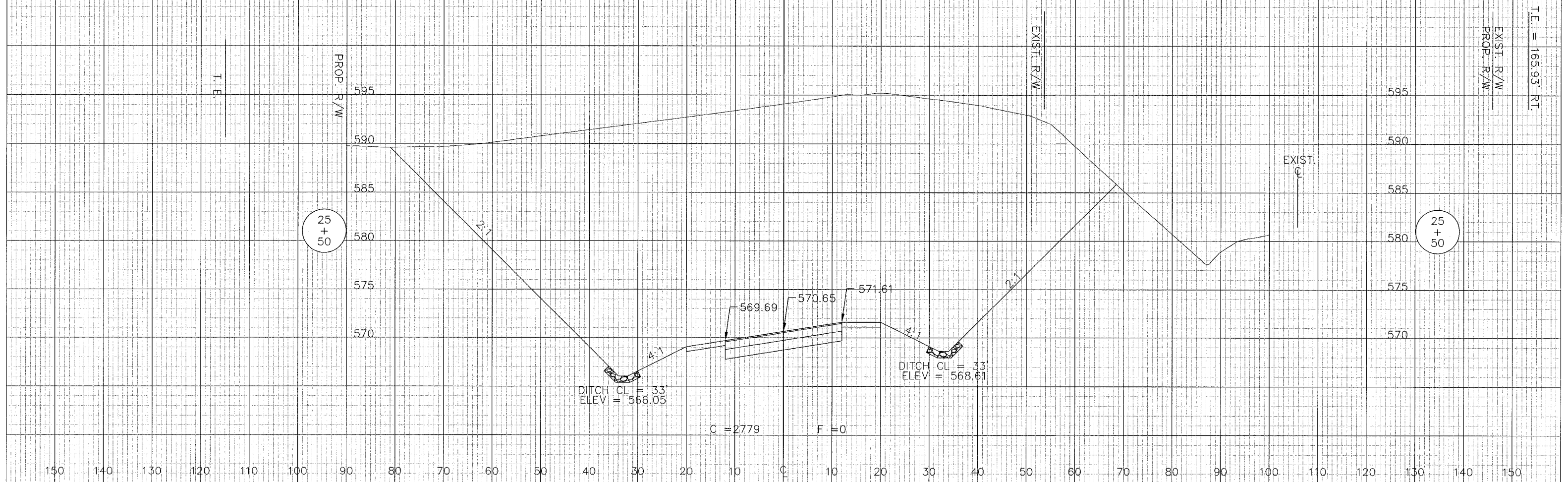
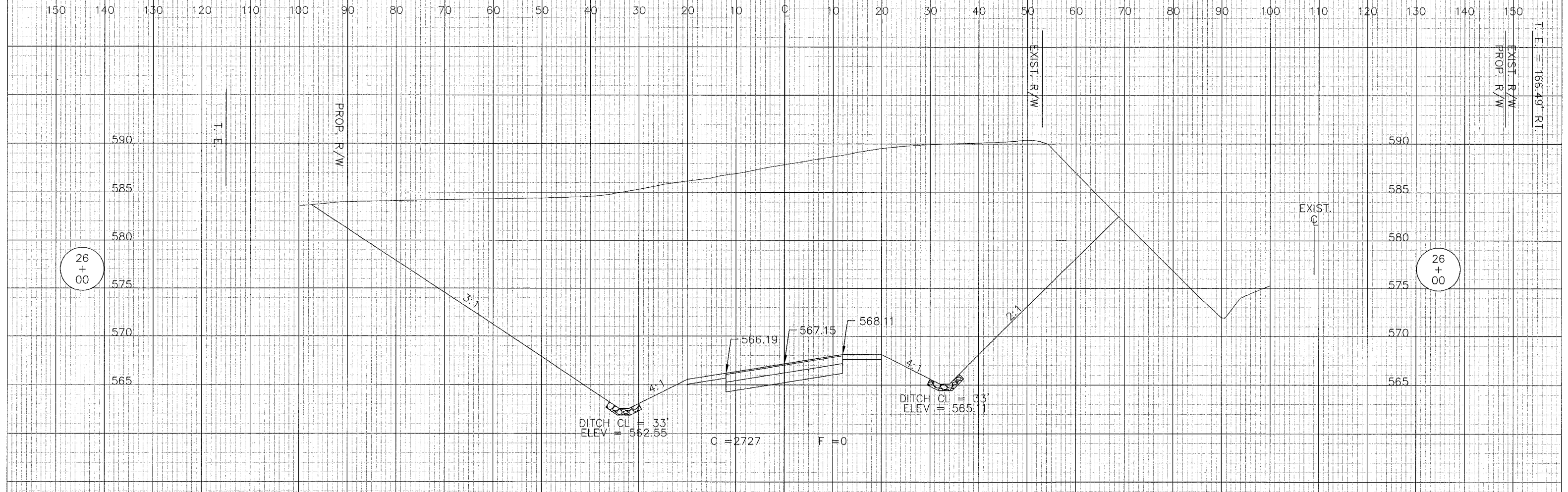
DITCH CL = 33'
ELEV = 572.11

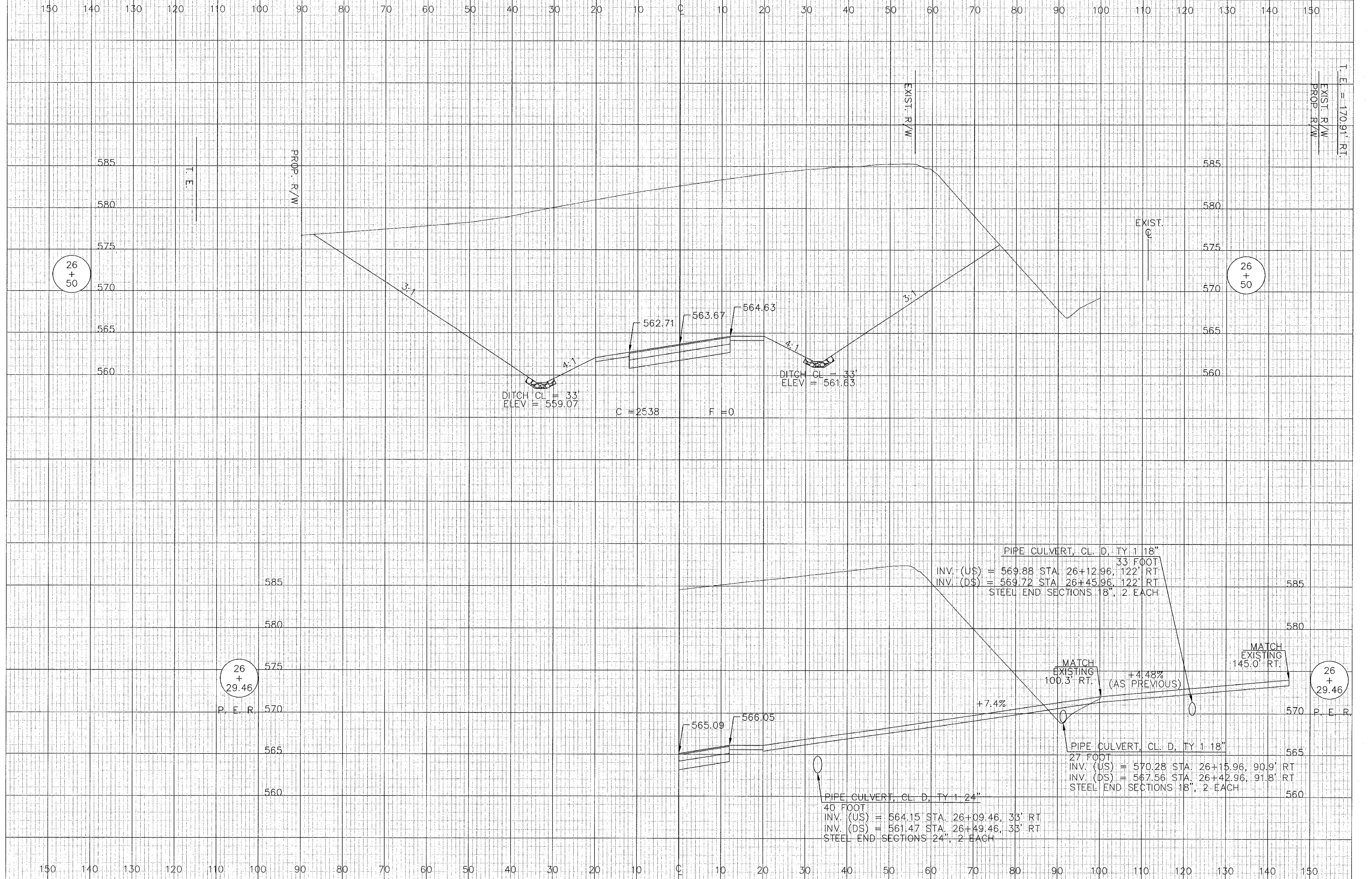
DITCH CL = 33'
ELEV = 573.05

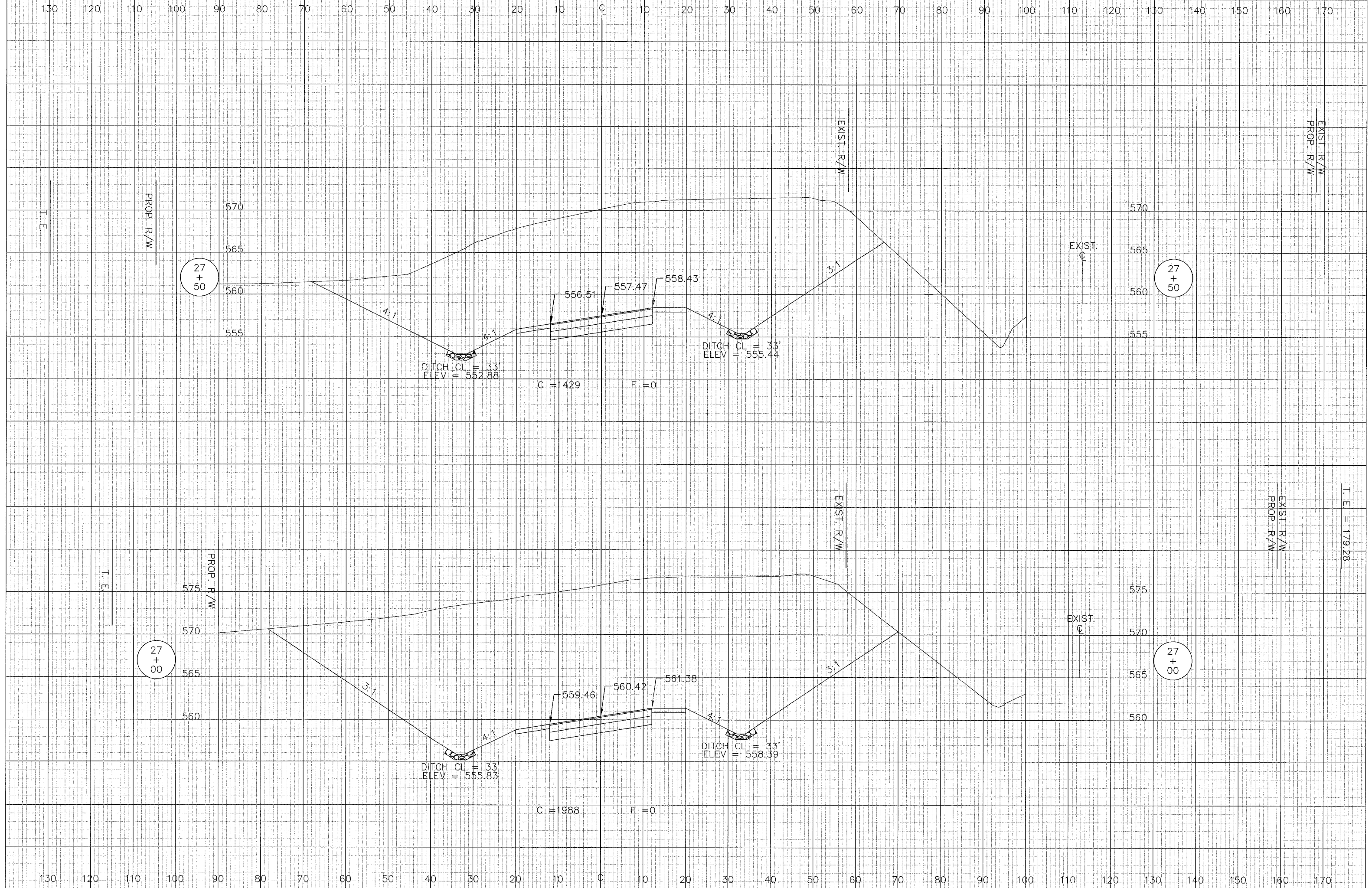
DITCH CL = 33'
ELEV = 575.61

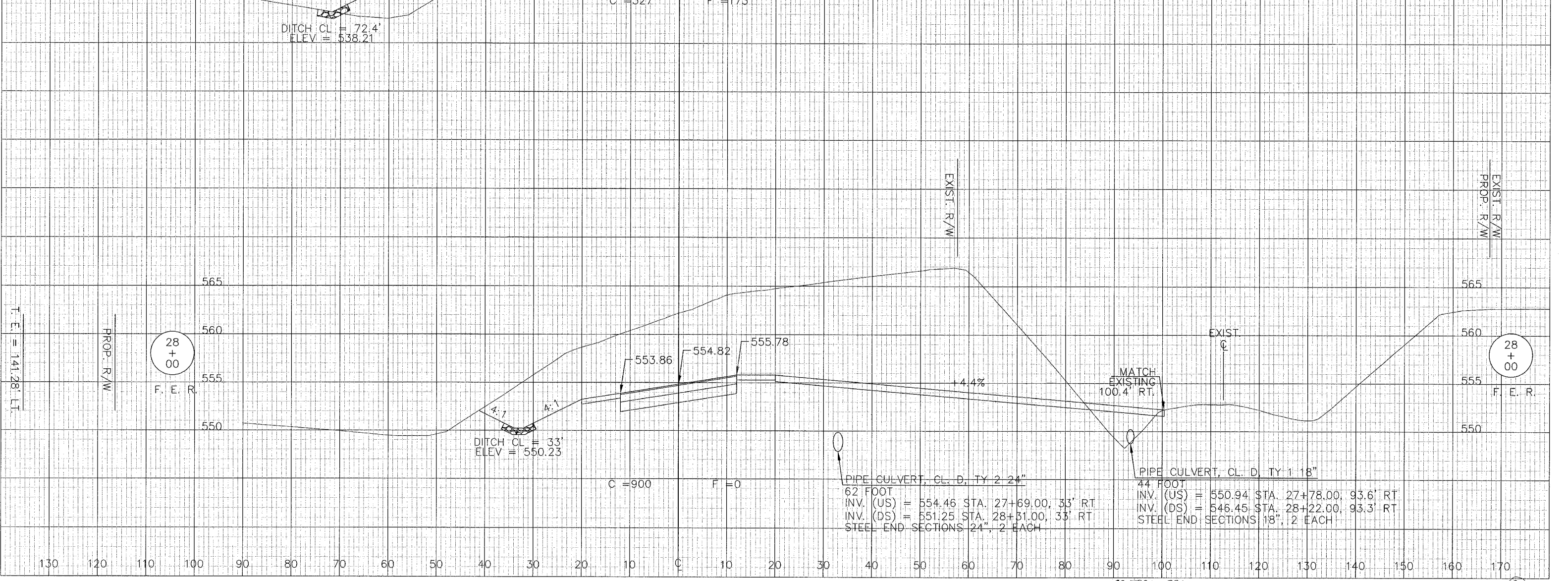
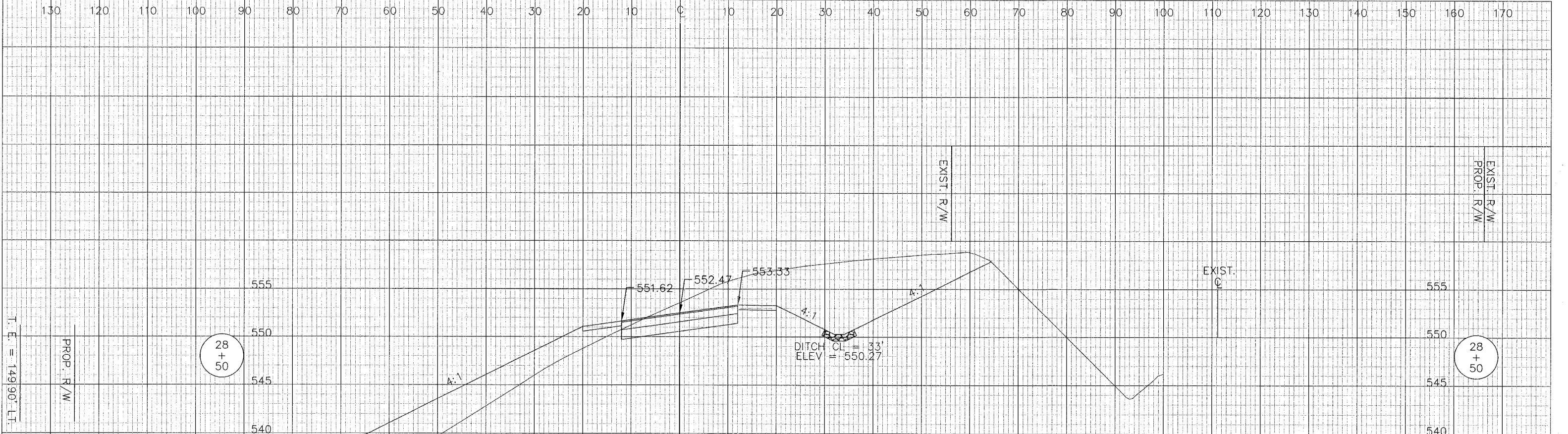
C = 3062 F = 0

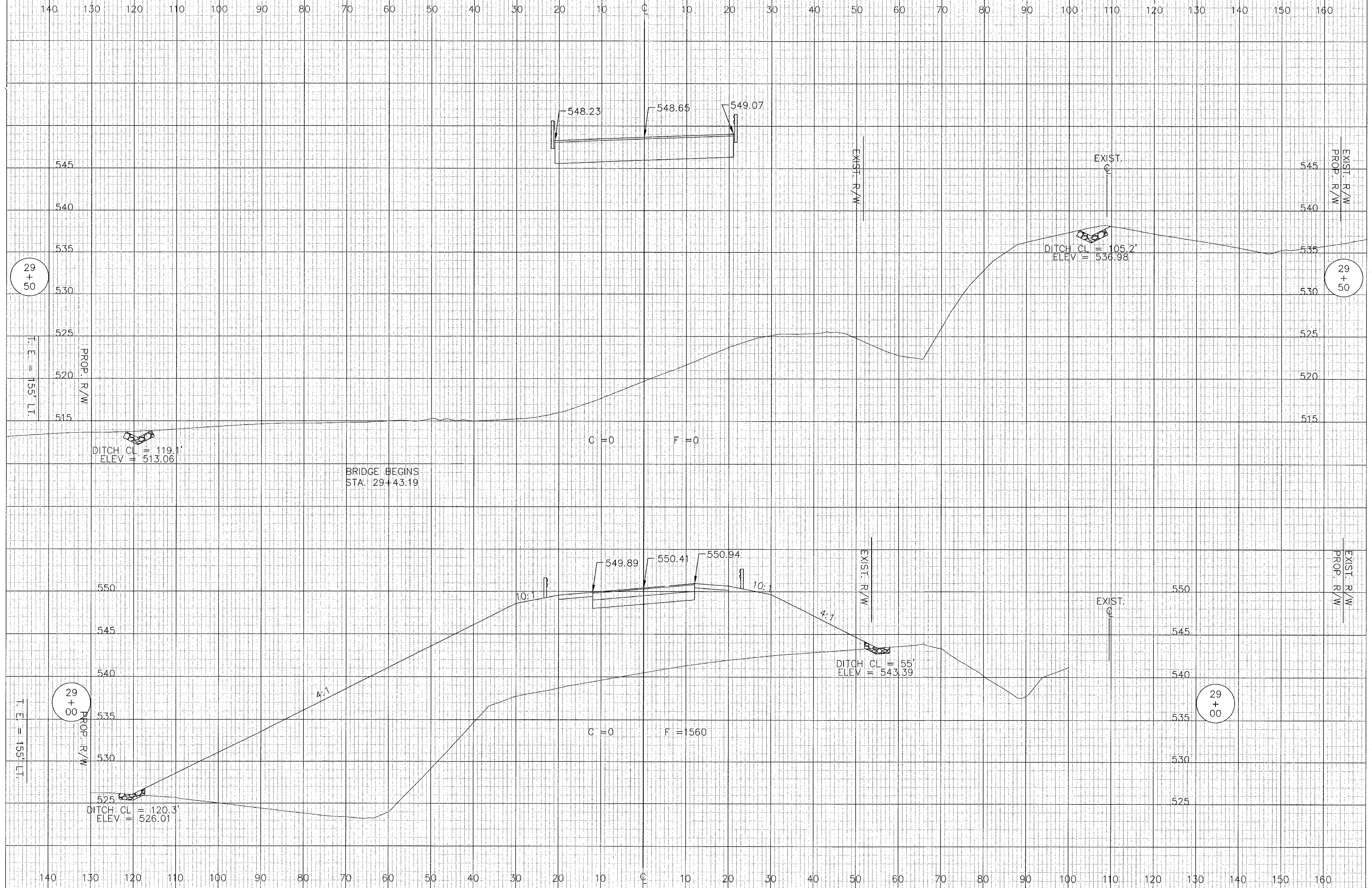
C = 3204 F = 0

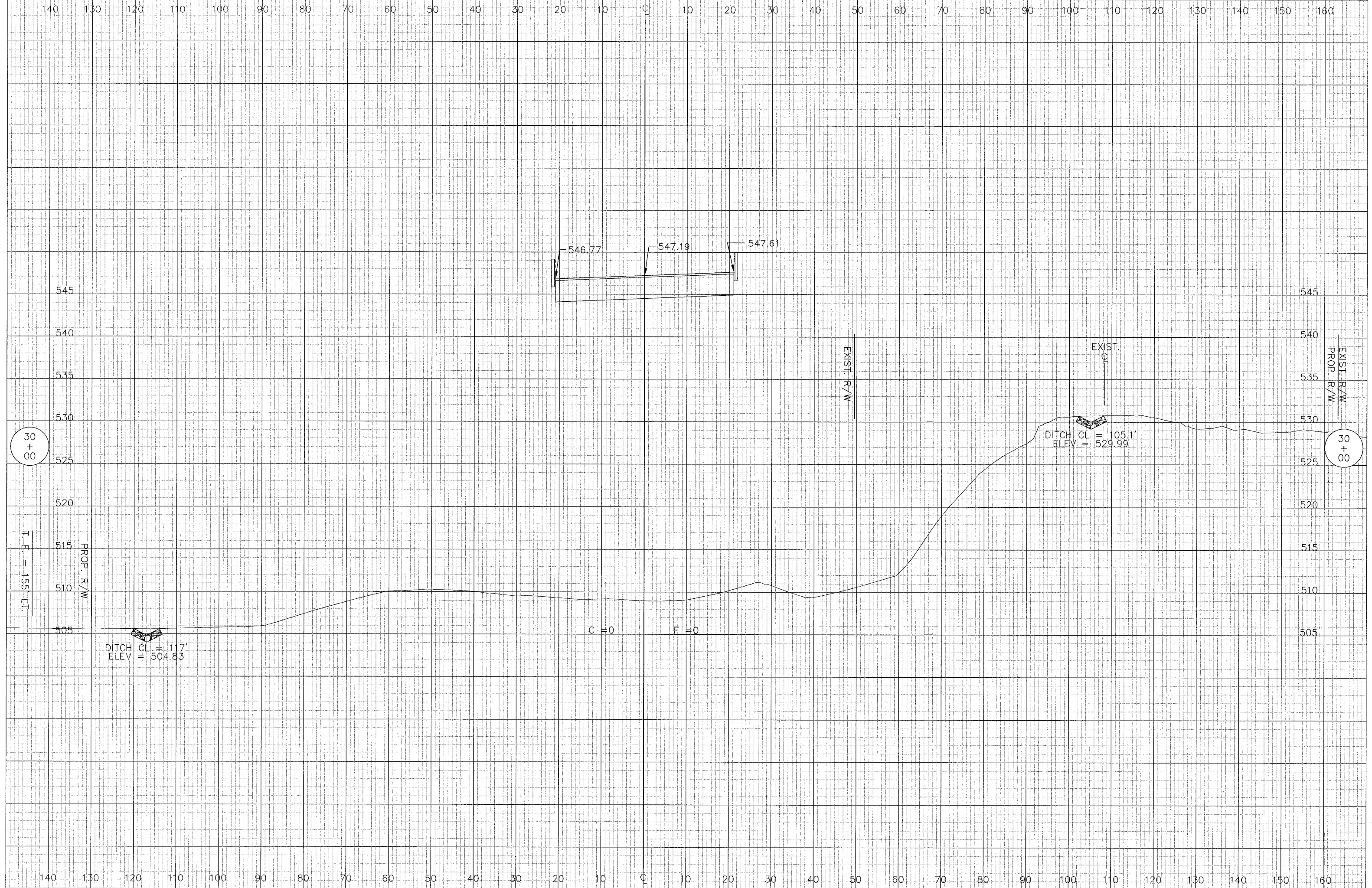












30
+
00

30
+
00

T. E. = 155' LT.

PROP. R/W

EXIST. R/W
PROP. R/W

DITCH CL = 105.1'
ELEV = 529.99

DITCH CL = 117'
ELEV = 504.83

C = 0

F = 0

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

140 130 120 110 100 90 80 70 60 50 40 30 20 10 C 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

545 545

540 540

535 535

530 530

525 525

520 520

515 515

510 510

505 505

500 500

30 + 50

30 + 50

T. E. = 155' LT.

PROP. R/W

EXIST. R/W
PROP. R/W

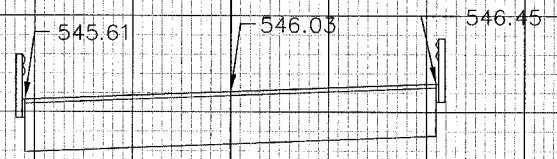
EXIST. C

DITCH CL = 115'
ELEV = 500.86

DITCH CL = 60'
ELEV = 501.22

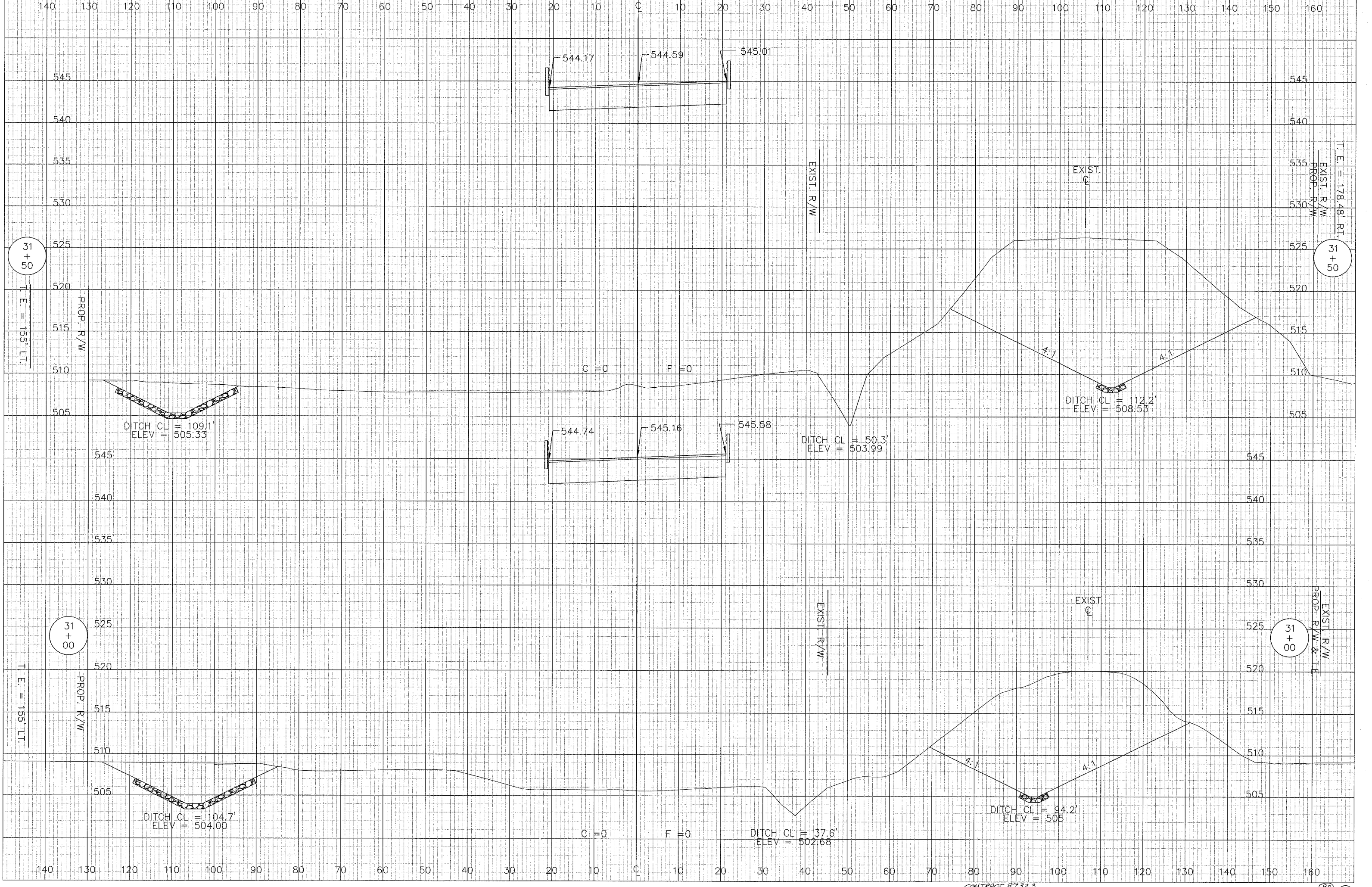
C = 0

F = 0



EXIST. R/W

140 130 120 110 100 90 80 70 60 50 40 30 20 10 C 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



31 + 50

T. E. = 165' LT.

PROP. R/W

DITCH CL = 109.1'
ELEV = 505.33'

C = 0 F = 0

DITCH CL = 50.3'
ELEV = 503.99'

DITCH CL = 112.2'
ELEV = 508.53'

31 + 50

T. E. = 178.48' RT.
EXIST. R/W
PROP. R/W

31 + 00

T. E. = 165' LT.

PROP. R/W

DITCH CL = 104.7'
ELEV = 504.00'

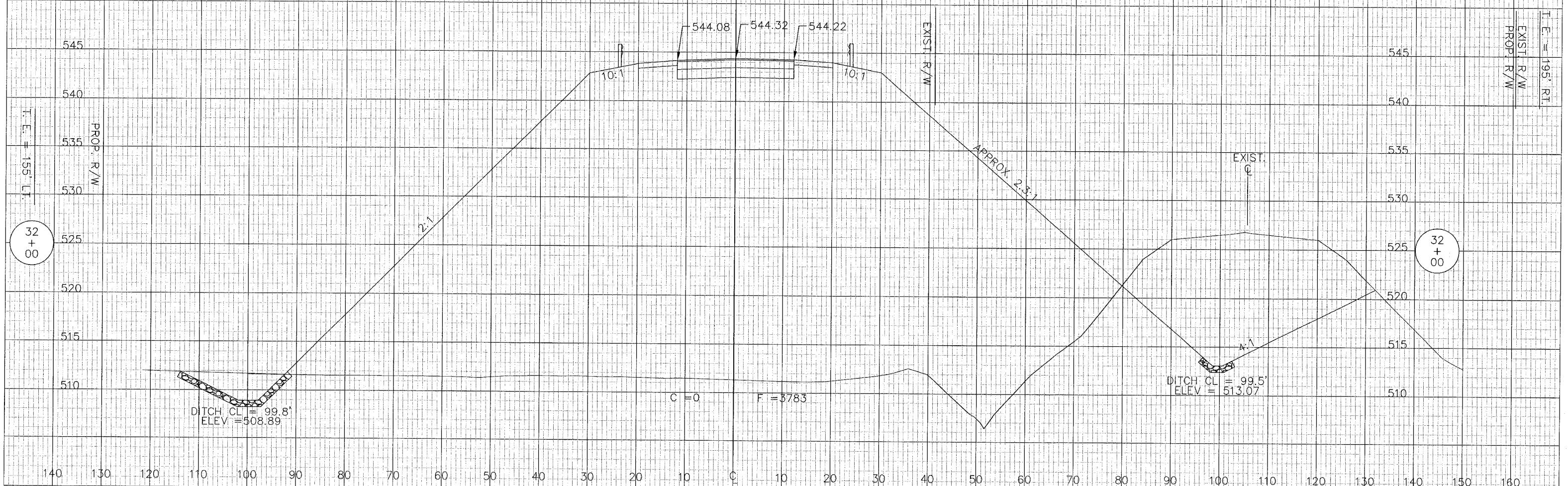
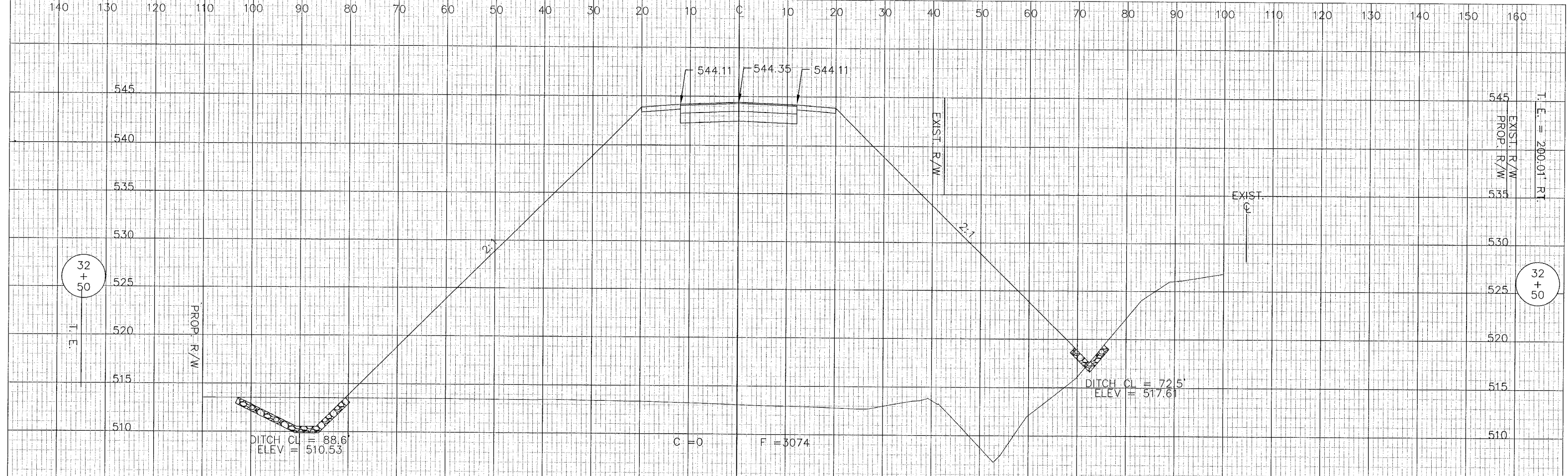
C = 0 F = 0

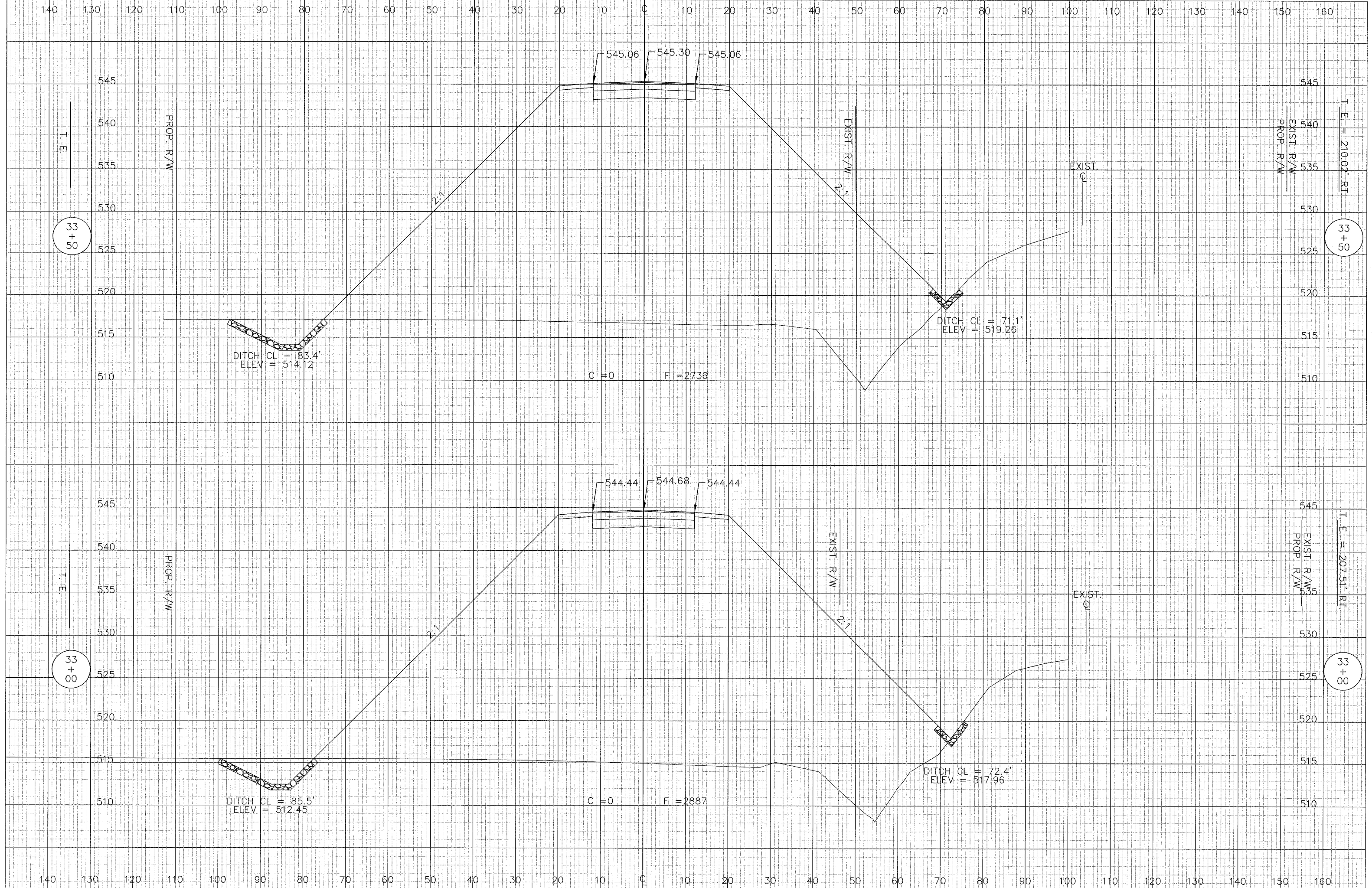
DITCH CL = 37.6'
ELEV = 502.68'

DITCH CL = 94.2'
ELEV = 505'

31 + 00

EXIST. R/W
PROP. R/W & T.E.





140 130 120 110 100 90 80 70 60 50 40 30 20 10 C 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

T. E.

PROP. R/W

33 + 50

545

540

535

530

525

520

515

510

2:1

C = 0

F = 2736

545.06

545.30

545.06

EXIST. R/W

EXIST. C

EXIST. R/W

PROP. R/W

T. E. = 210.02' RT.

33 + 50

545

540

535

530

525

520

515

510

DITCH CL = 71.1'
ELEV = 519.26

T. E.

PROP. R/W

33 + 00

545

540

535

530

525

520

515

510

2:1

C = 0

F = 2887

544.44

544.68

544.44

EXIST. R/W

EXIST. C

EXIST. R/W

PROP. R/W

T. E. = 207.51' RT.

33 + 00

545

540

535

530

525

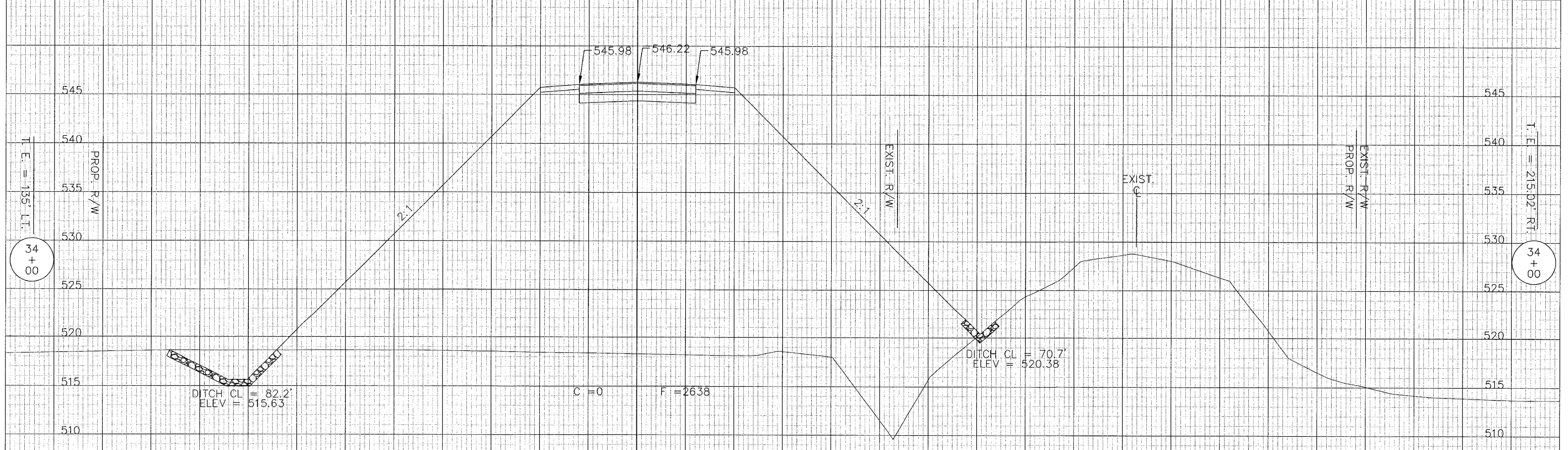
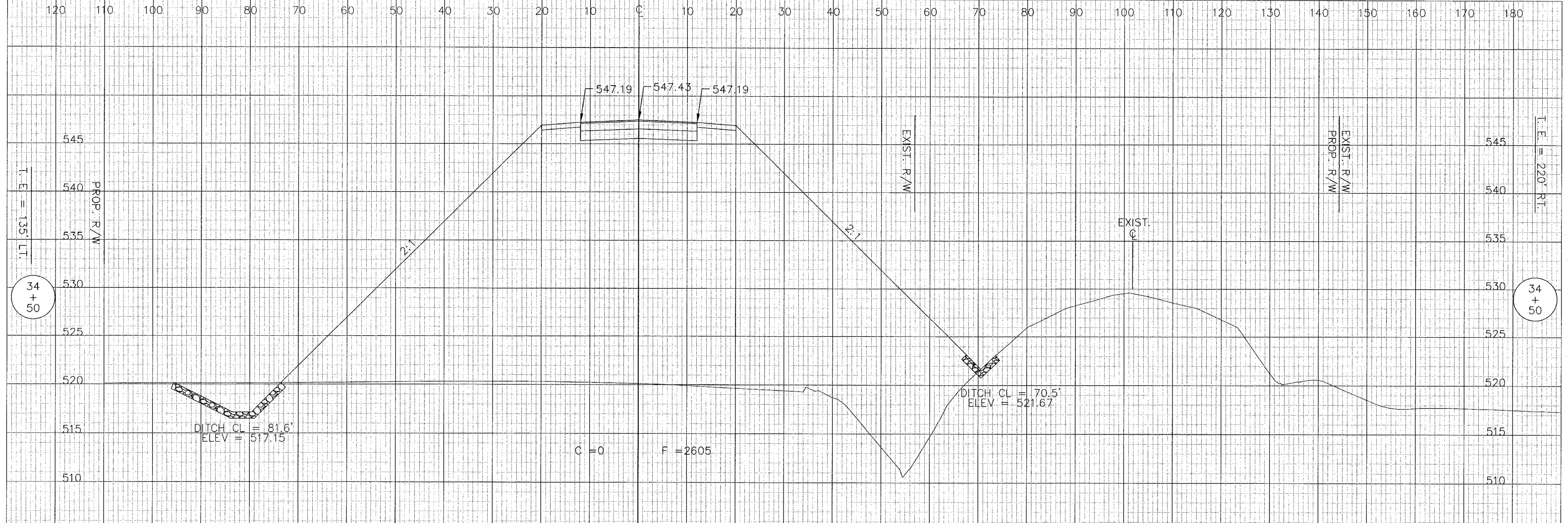
520

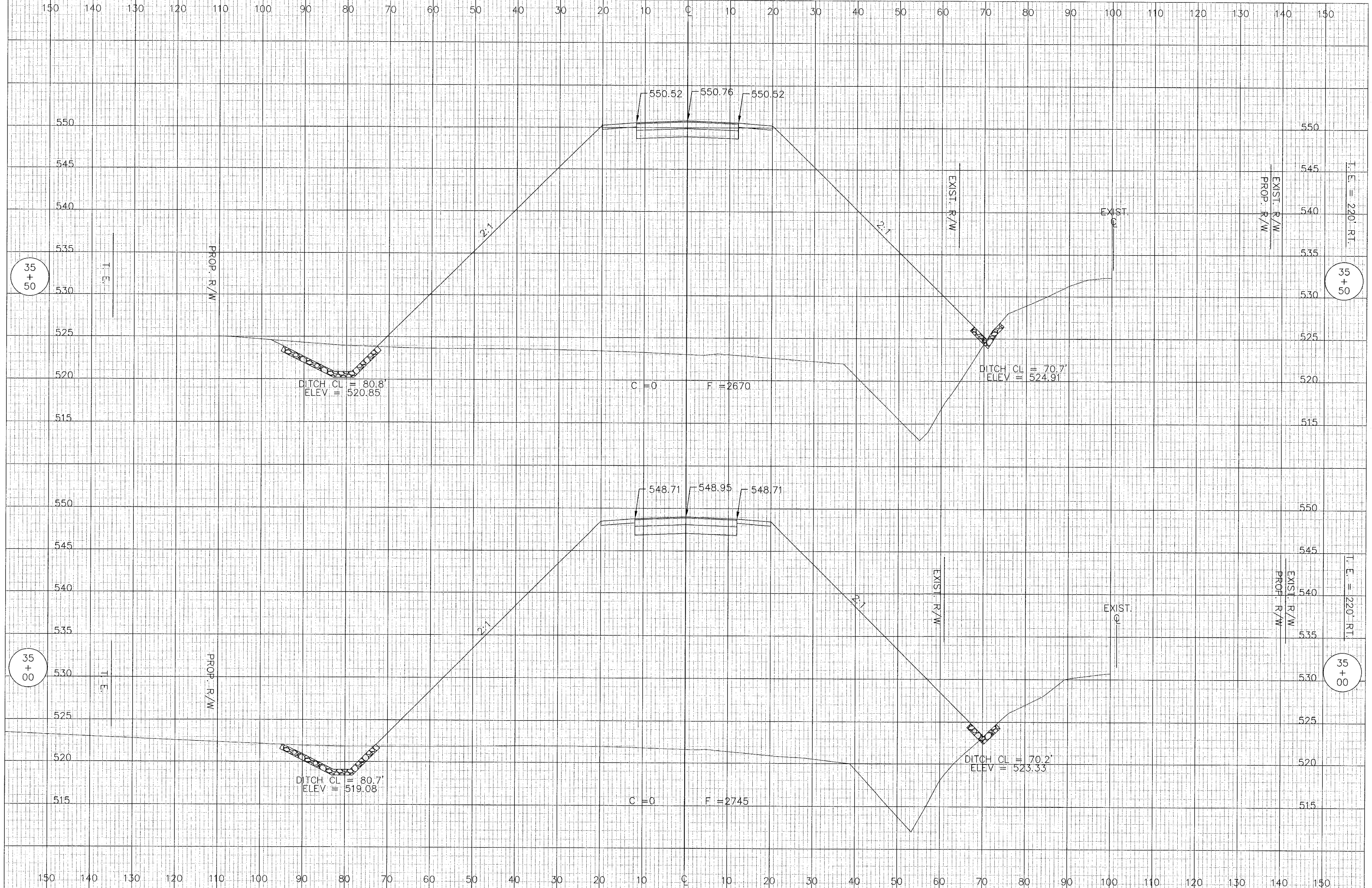
515

510

DITCH CL = 72.4'
ELEV = 517.96

140 130 120 110 100 90 80 70 60 50 40 30 20 10 C 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160





35
+
50

35
+
50

35
+
00

35
+
00

DITCH CL = 80.8'
ELEV = 520.85

C = 0 F = 2670

DITCH CL = 70.7'
ELEV = 524.91

DITCH CL = 80.7'
ELEV = 519.08

C = 0 F = 2745

DITCH CL = 70.2'
ELEV = 523.33

EXIST. R/W

EXIST. R/W
PROP. R/W

T. E.

PROP. R/W

T. E. = 220' RT.

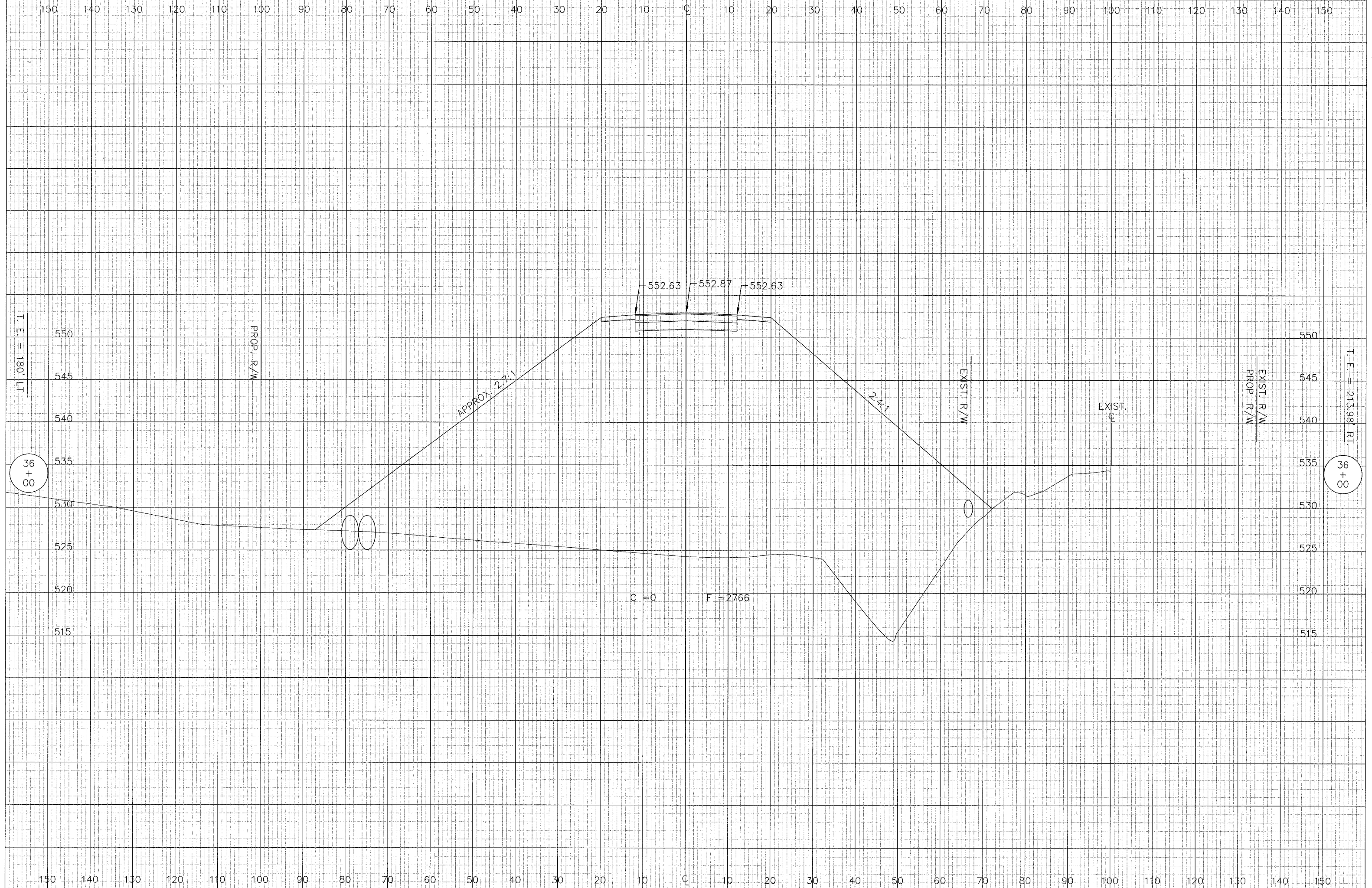
EXIST. R/W

EXIST. R/W
PROP. R/W

T. E.

PROP. R/W

T. E. = 220' RT.



T. E. = 180' LT

PROP. R/W

APPROX. 27:1

2.4:1

EXIST. R/W

EXIST. C

EXIST. R/W

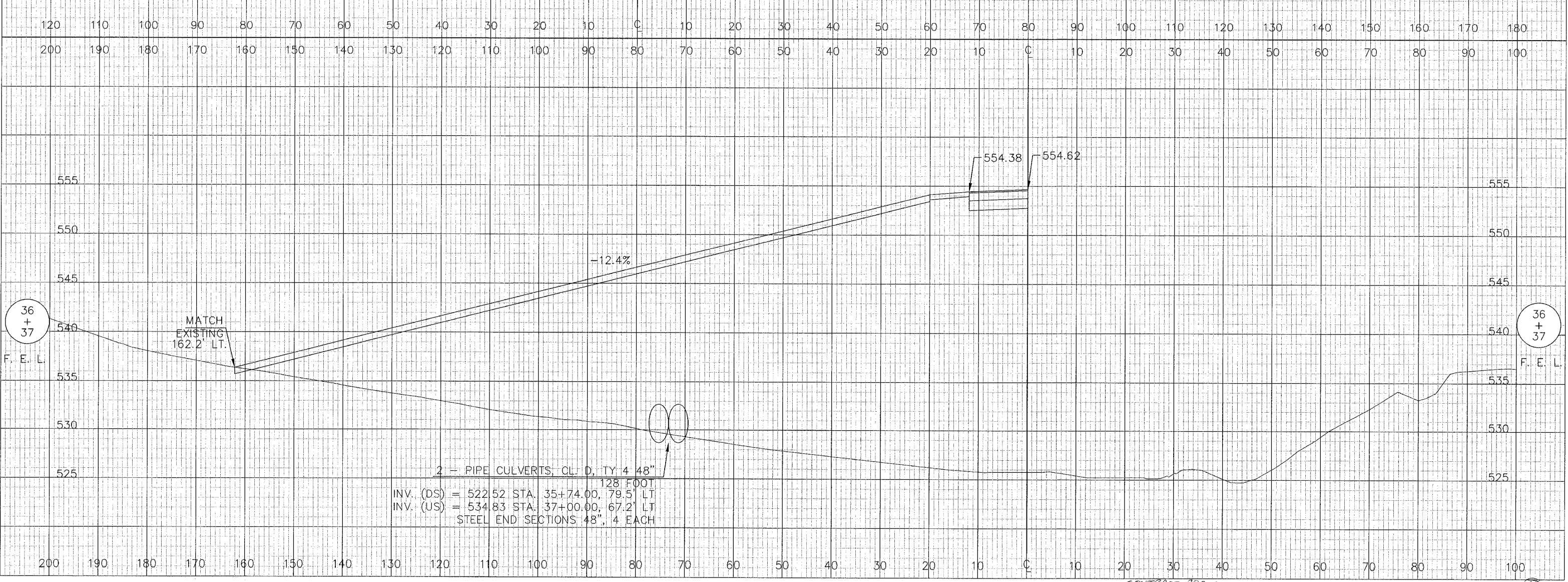
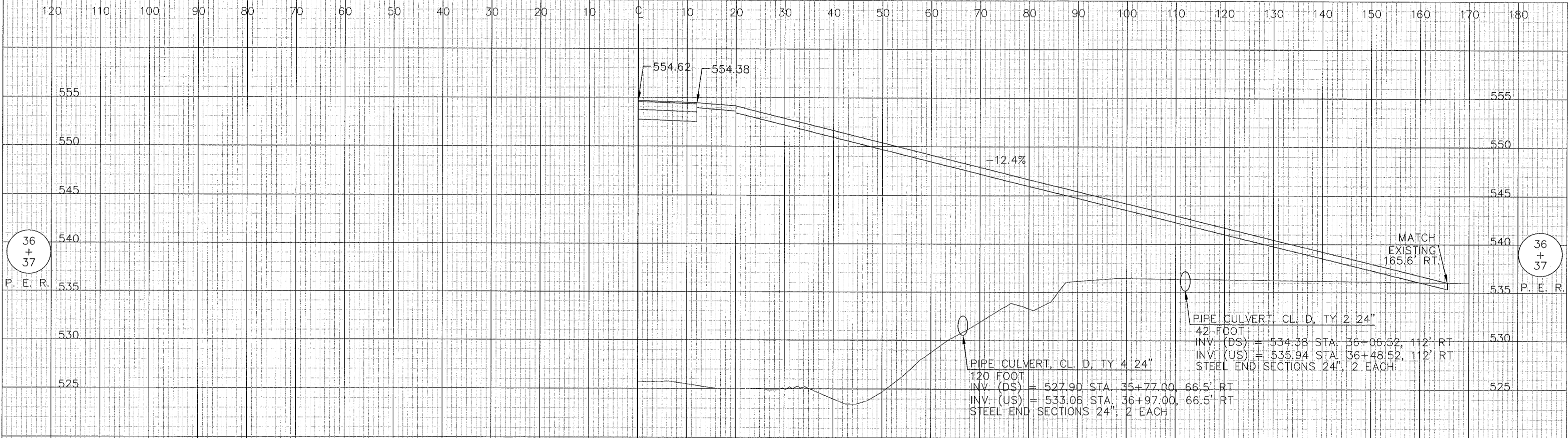
T. E. = 213.98' RT

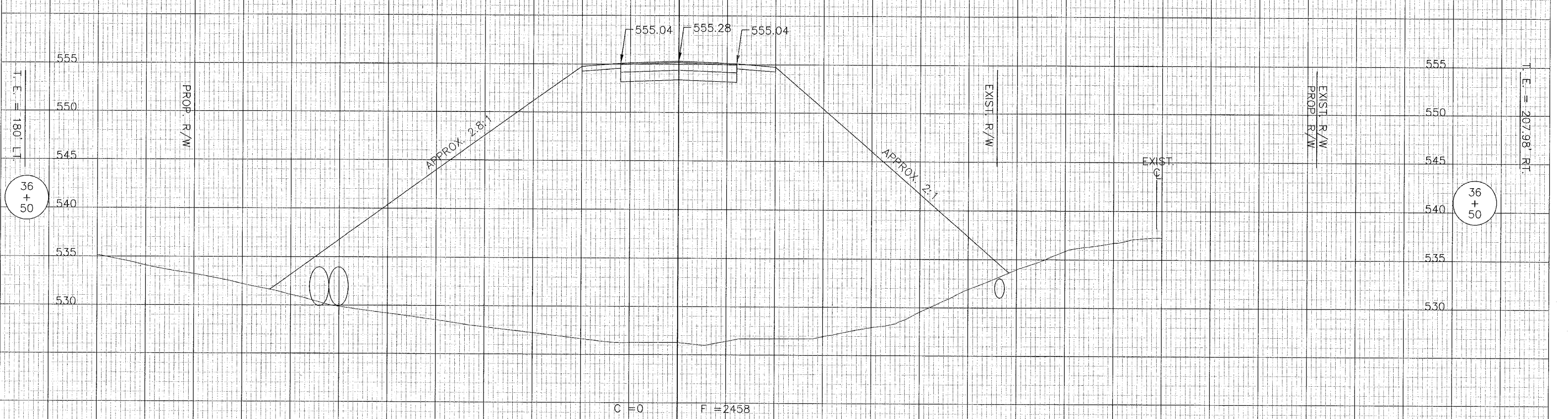
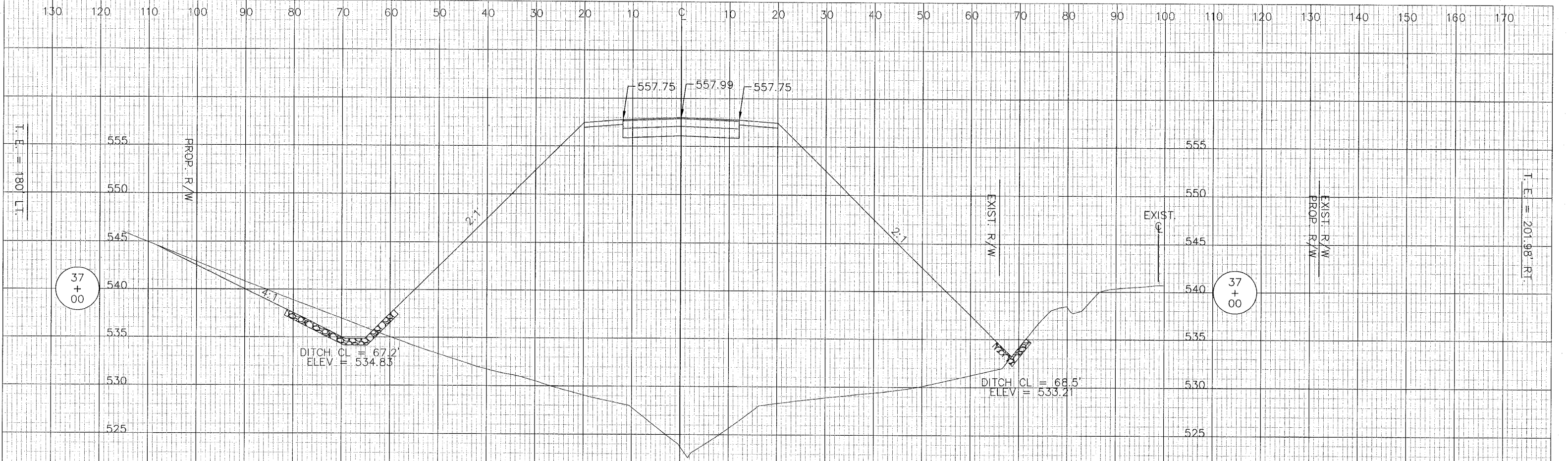
36+00

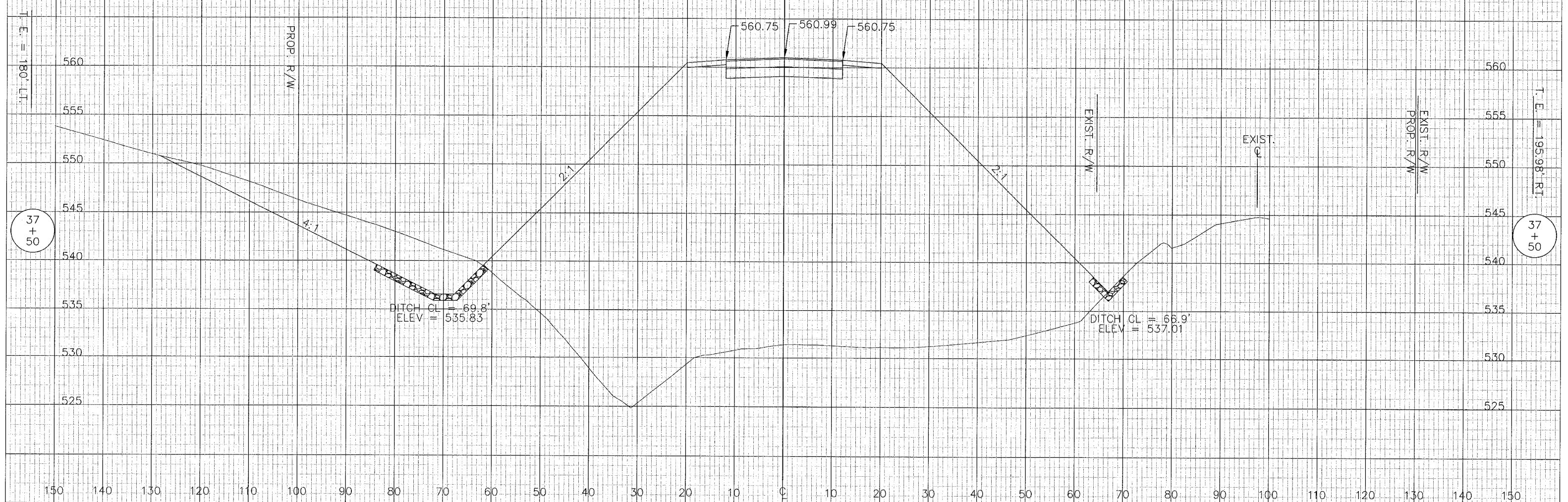
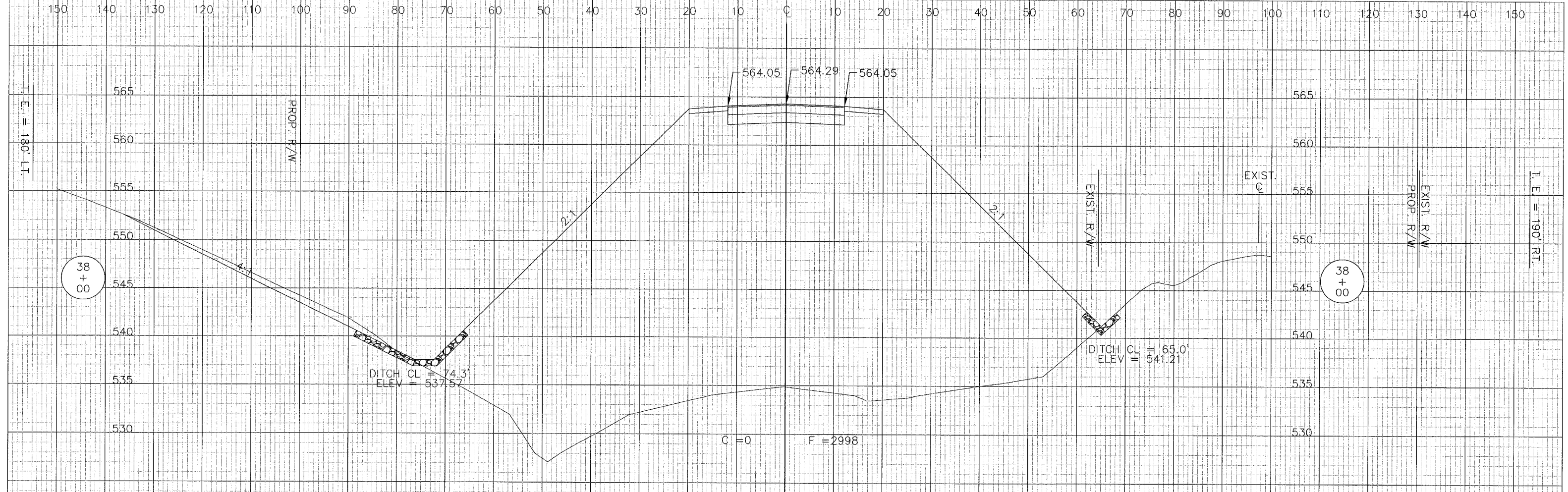
36+00

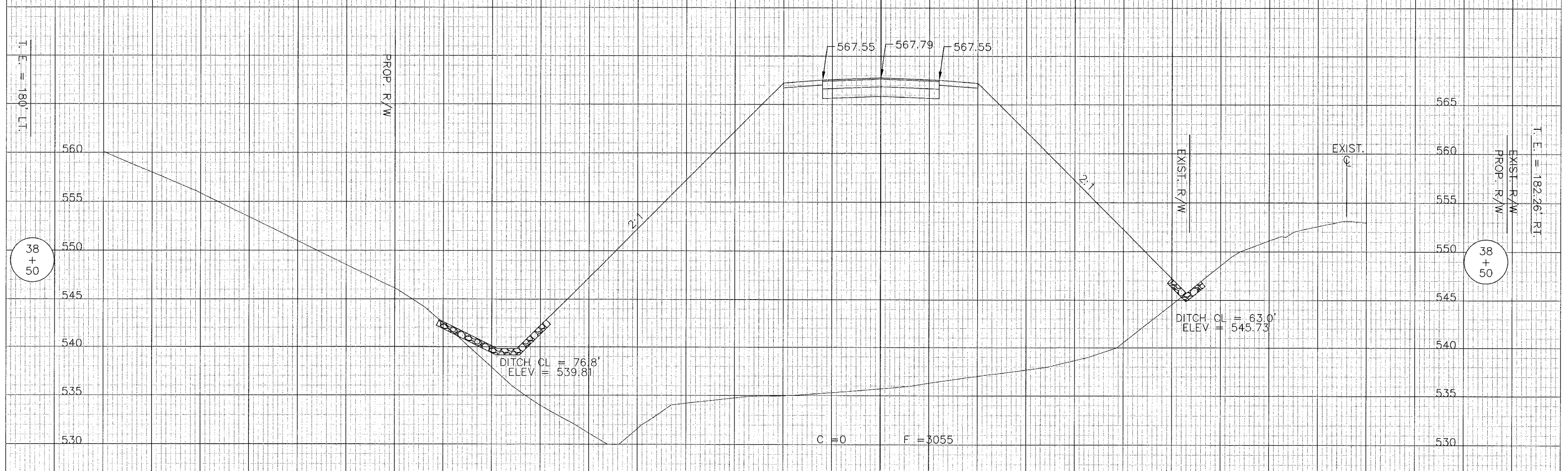
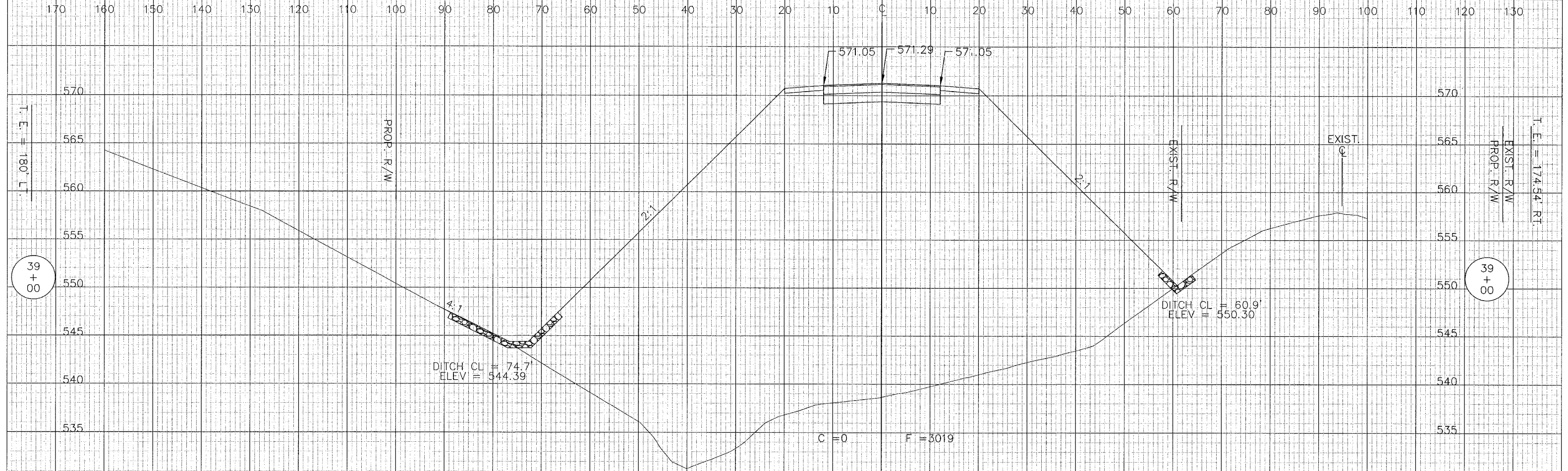
C = 0

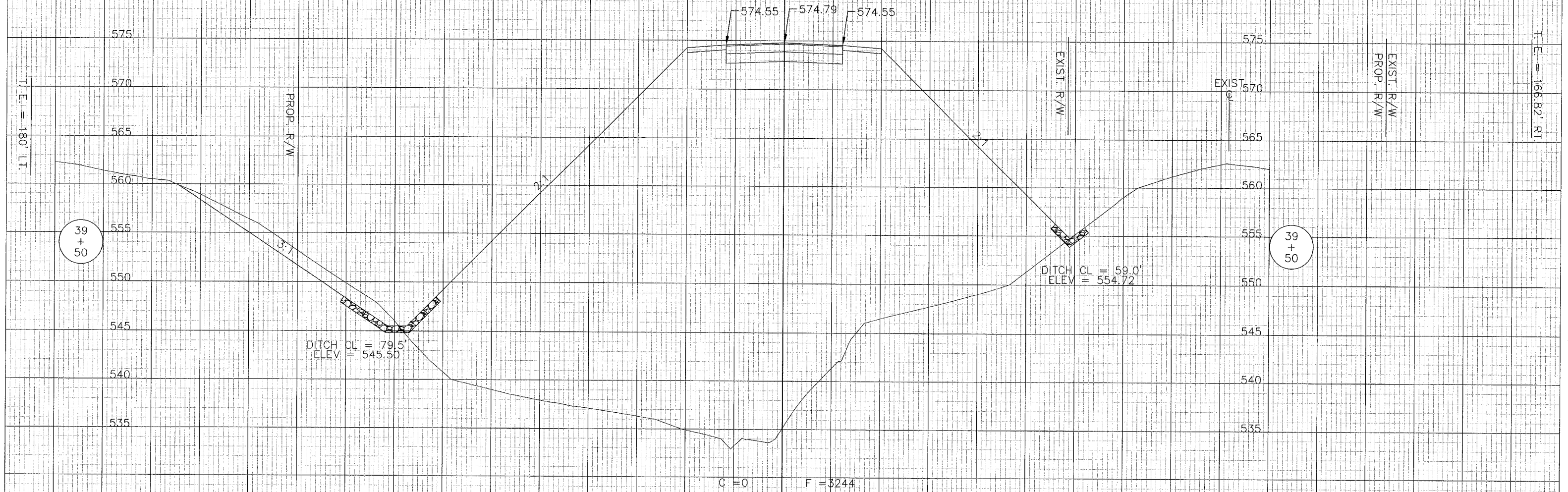
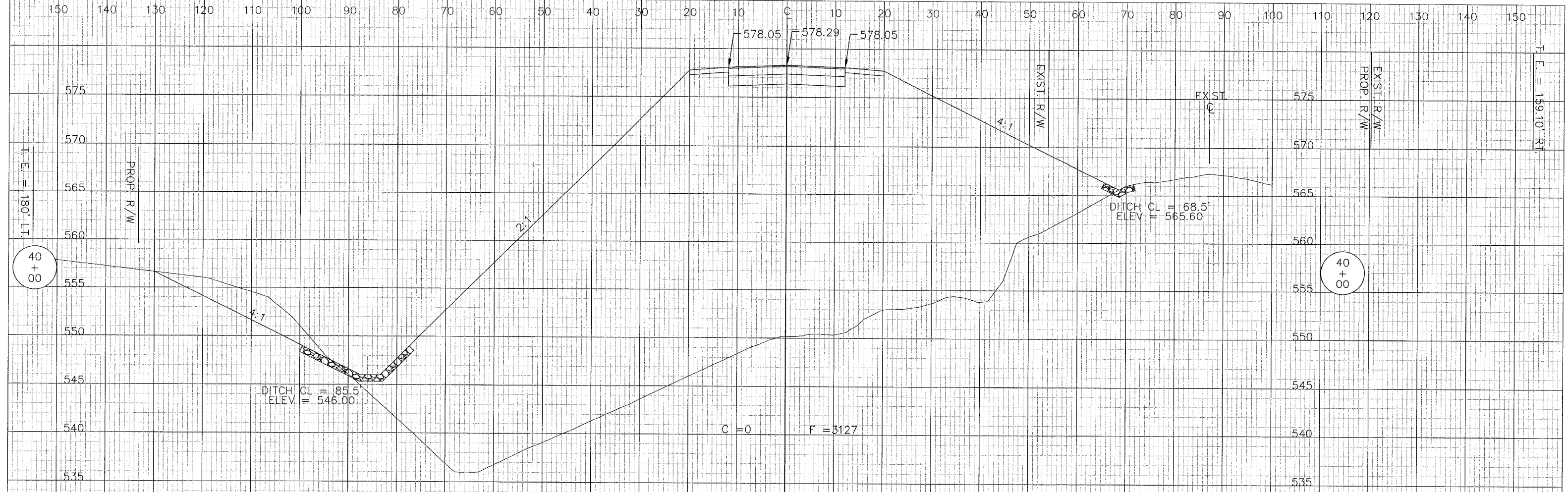
F = 2766

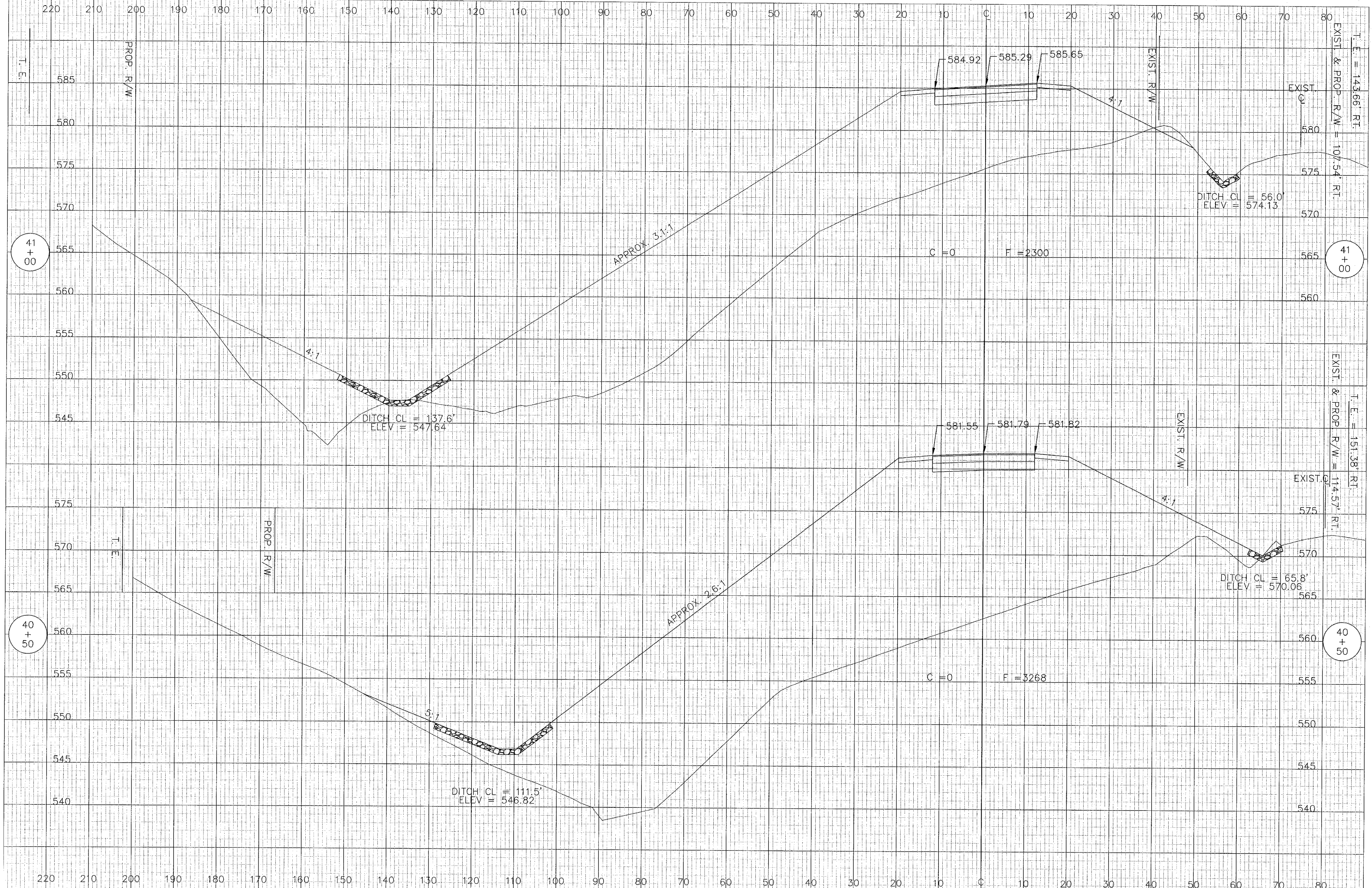












41
+
00

41
+
00

40
+
50

40
+
50

T. E. = 143.66' RT.
EXIST. & PROP. R/W = 107.54' RT.

T. E. = 151.38' RT.
EXIST. & PROP. R/W = 114.57' RT.

PROP. R/W

PROP. R/W

EXIST. R/W

EXIST. R/W

APPROX. 3:1:1

APPROX. 2.6:1

4:1

5:1

4:1

4:1

DITCH CL = 137.6'
ELEV = 547.64

DITCH CL = 111.5'
ELEV = 546.82

DITCH CL = 56.0'
ELEV = 574.13

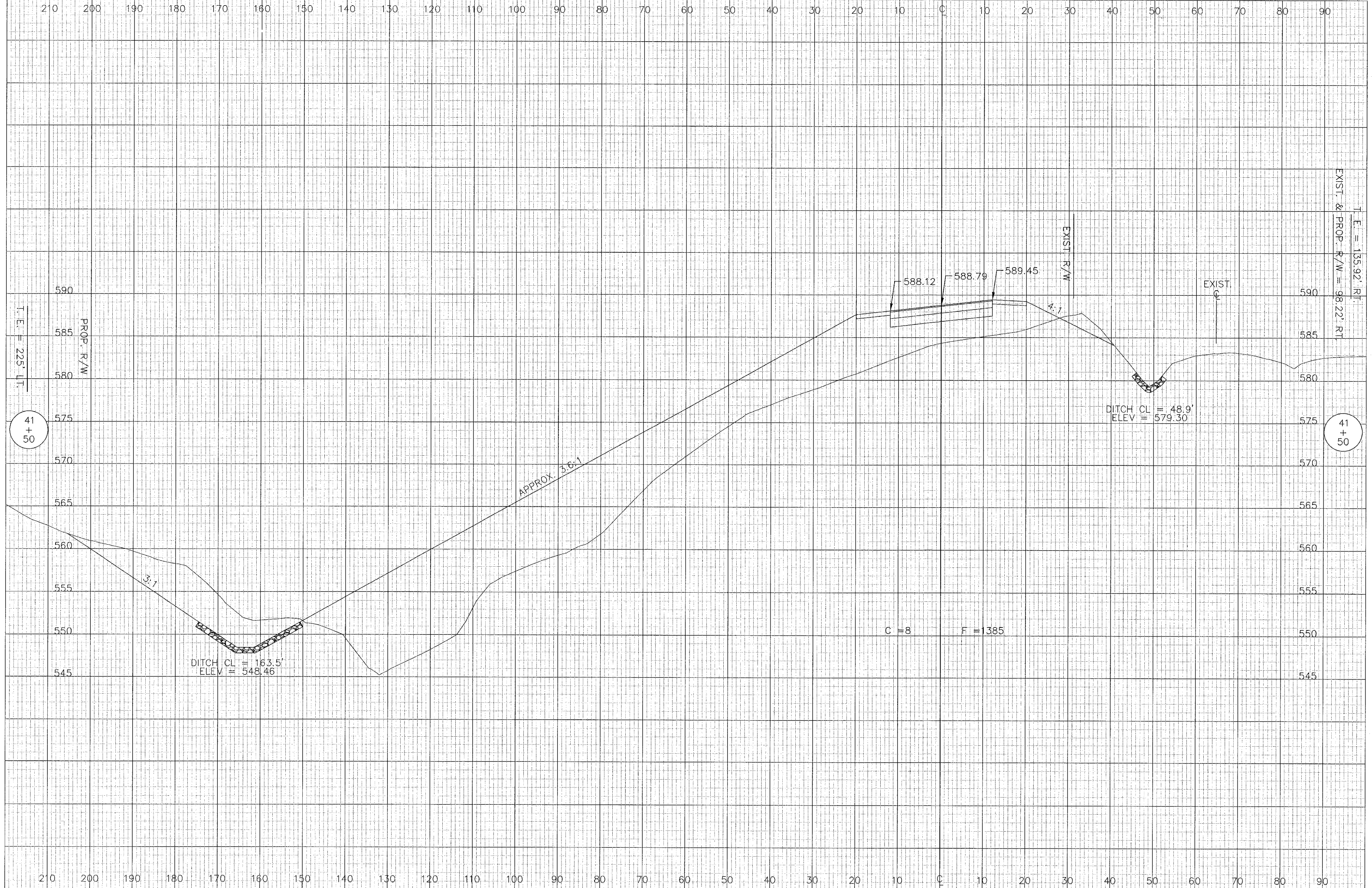
DITCH CL = 65.8'
ELEV = 570.06

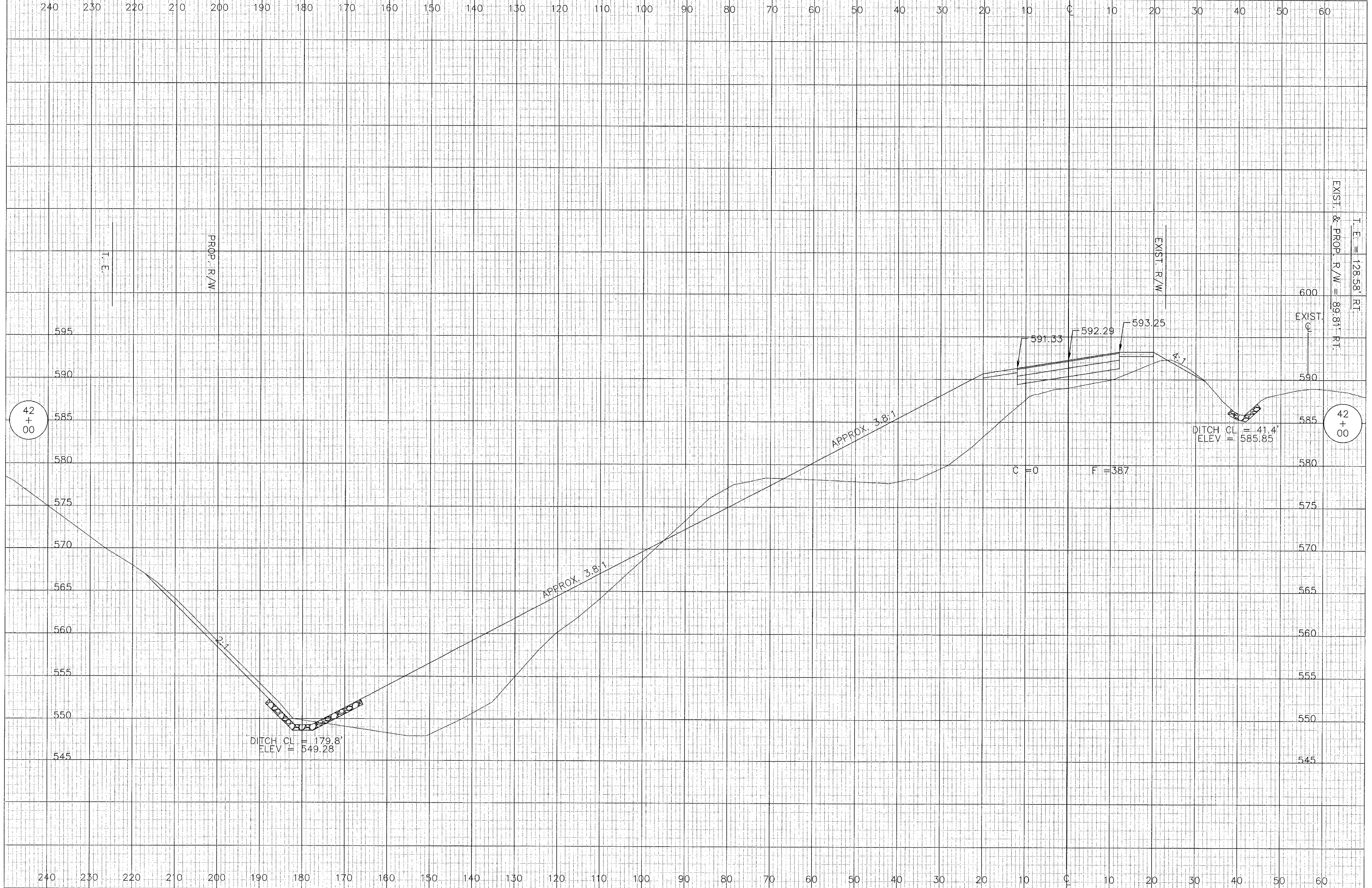
C = 0 F = 2300

C = 0 F = 3268

584.92 585.29 585.65

581.55 581.79 581.82





T.E. = 128.58' RT.
 EXIST. & PROP. R/W = 89.81' RT.

42+00

DITCH CL = 41.4'
 ELEV = 585.85

C = 0 F = 387

APPROX. 3.8:1

APPROX. 3.8:1

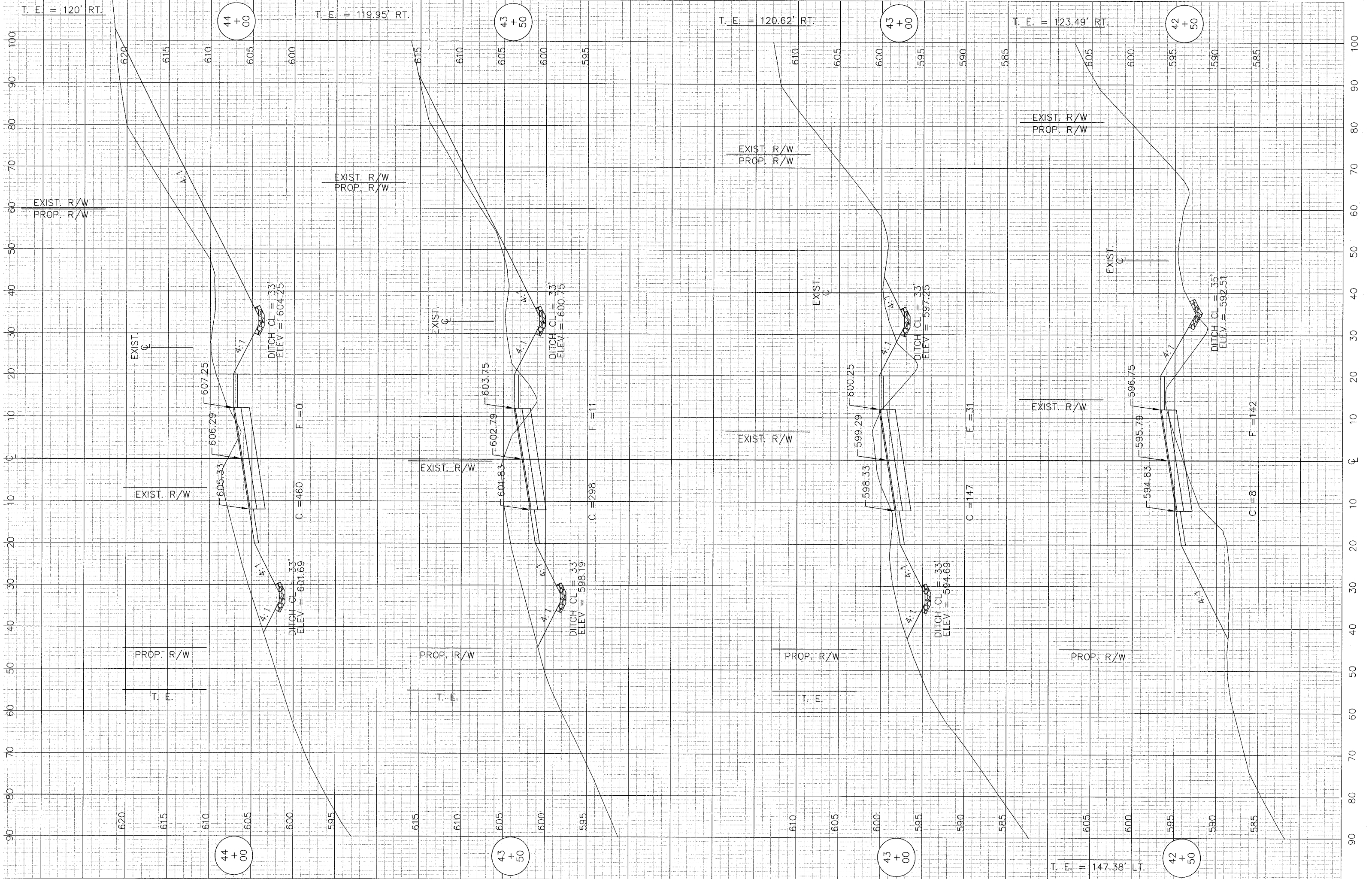
DITCH CL = 179.8'
 ELEV = 549.28

PROP. R/W

EXIST. R/W

T.E.

42+00





46 + 00

45 + 50

45 + 00

44 + 50

46 + 00

45 + 50

45 + 00

44 + 50

T. E. = 120' RT.

T. E. = 120 RT.

CONCRETE GUTTER TYPE A
STA. 45+40.00 TO STA. 46+60.00
120' LONG

CONCRETE GUTTER TYPE A
STA. 45+40.00 TO STA. 46+60.00
120' LONG

PIPE CULVERT, CL. A, TY. 2-30"
OUTLET 33' LT., ELEV. = 608.17
SEE DROP BOX DETAIL SHEETS FOR INV. INFORMATION

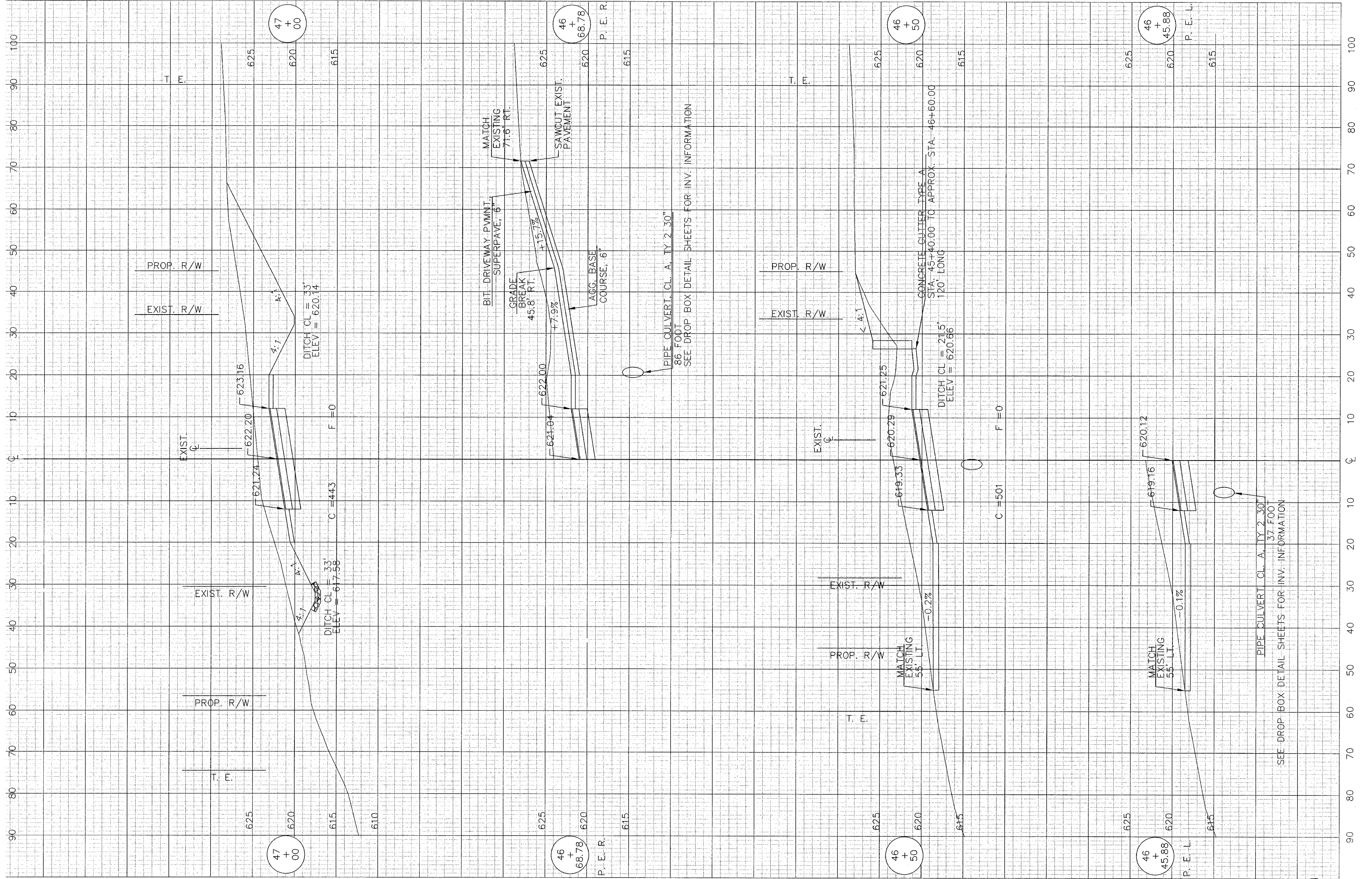
DITCH CL = 21.5'
ELEV = 618.47

DITCH CL = 21.5'
ELEV = 615.96

DITCH CL = 33'
ELEV = 610.73

DITCH CL = 33'
ELEV = 607.63

DITCH CL = 33'
ELEV = 605.07



PROP. R/W
EXIST. R/W

EXIST. C

EXIST. R/W

PROP. R/W

T. E.

47
+
00

F = 0

C = 443

DITCH CL = 33'
ELEV = 617.58

615
610

47
+
00

MATCH
EXISTING
71.8' RT.

BIT. DRIVEWAY PAVMT.
SUPERPAVE, 6"

GRADE
BREAK
45.8' RT.

+7.9%

ACC. BASE
COURSE, 6"

+13.7%

622.00

625
620

46
+
68.78

P. E. R.

615

PIPE CULVERT CL. A. LY. 2' 30"
86 FOOT
SEE DROP BOX DETAIL SHEETS FOR INV. INFORMATION

PROP. R/W
EXIST. R/W

EXIST. C

EXIST. R/W

PROP. R/W

T. E.

46
+
50

F = 0

C = 501

DITCH CL = 21.5'
ELEV = 620.86

625
620

46
+
50

P. E. L.

615

MATCH
EXISTING
55' LT.

CONCRETE GUTTER TYPE A
STA. 45+40.00 TO APPROX. STA. 46+60.00
120' LONG

< 4:1

-0.2%

46
+
45.88

625
620

46
+
45.88

P. E. L.

615

620.12

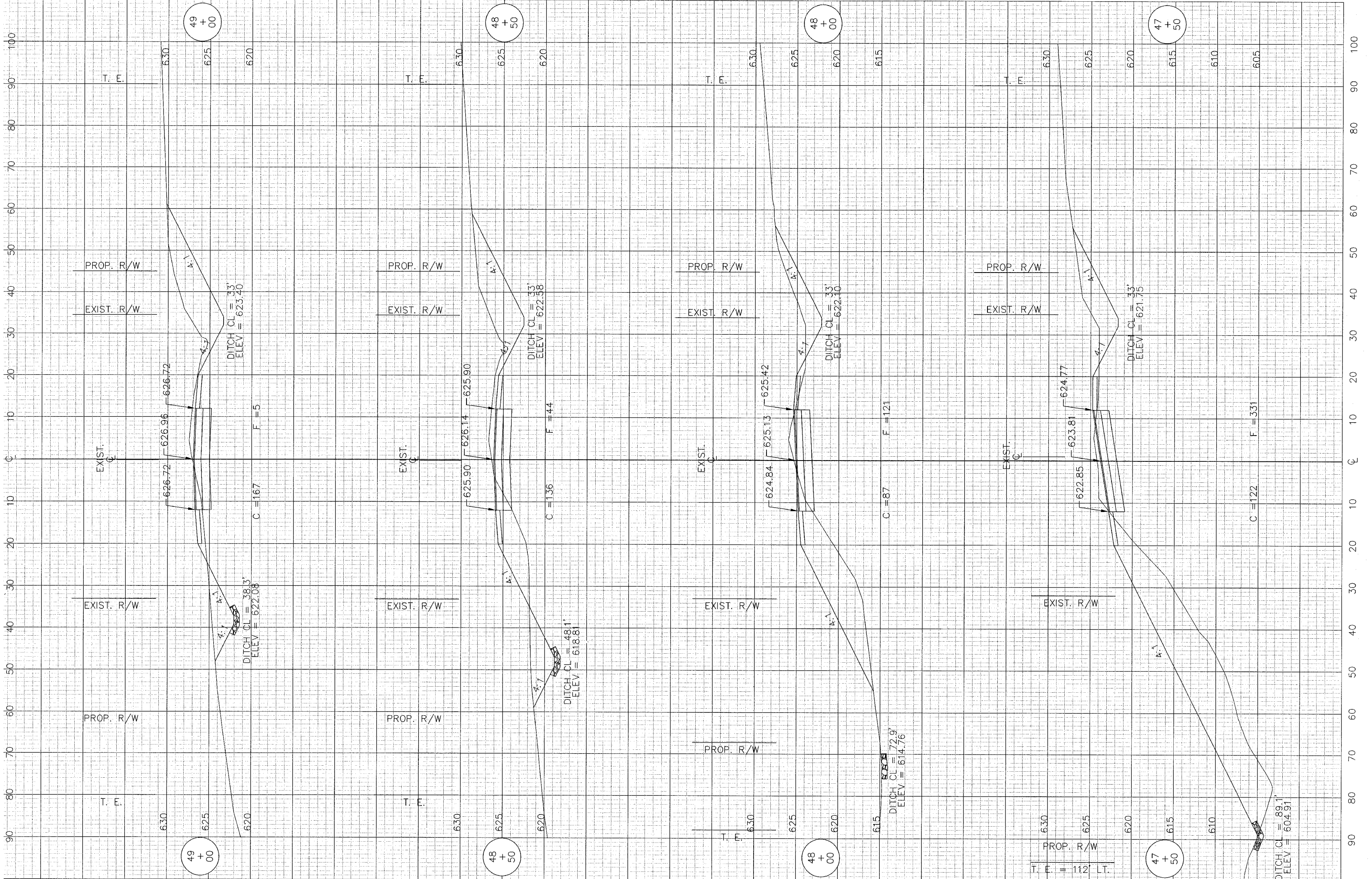
619.16

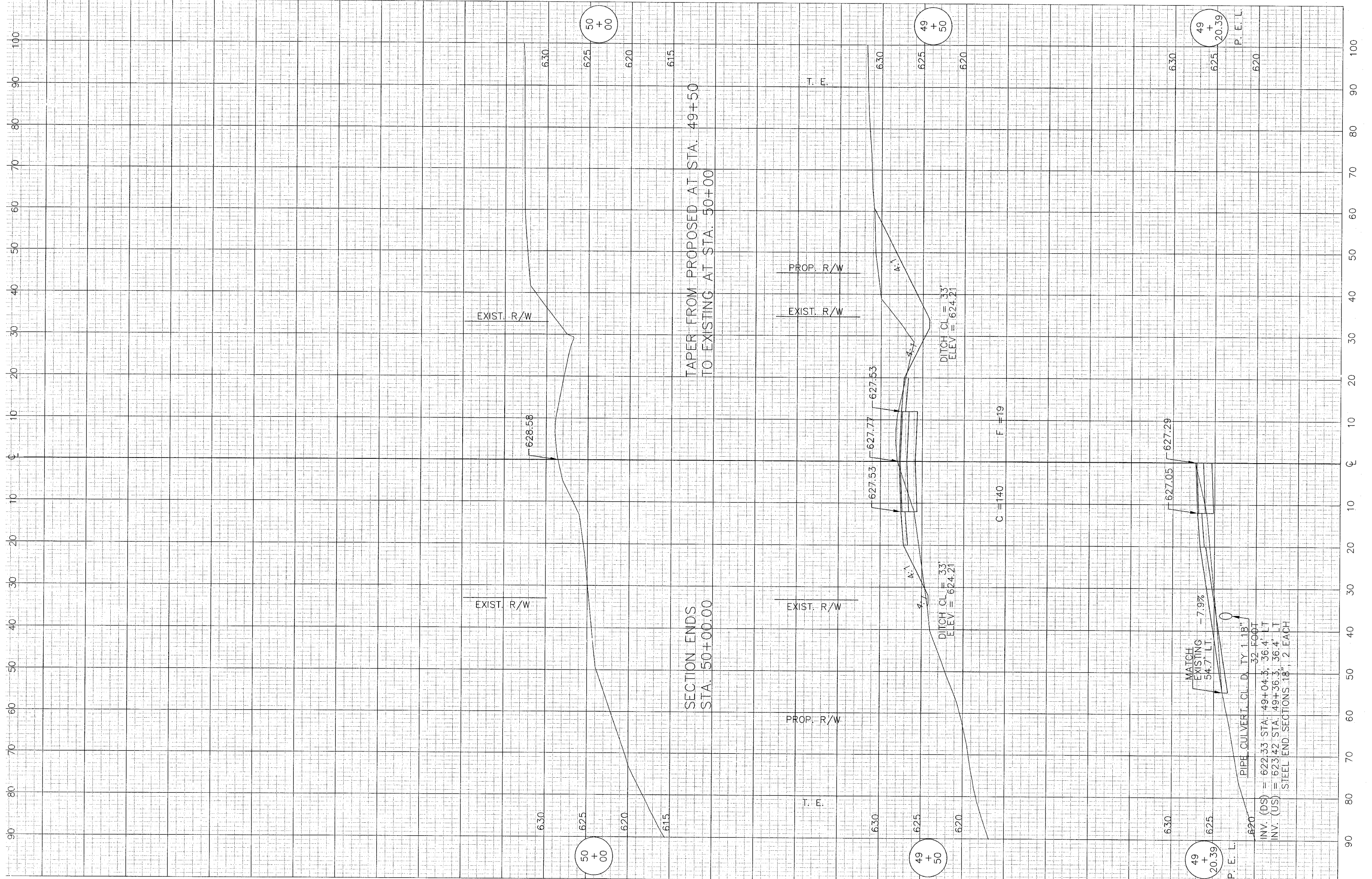
MATCH
EXISTING
55' LT.

-0.1%

PIPE CULVERT CL. A. LY. 2' 30"
37 FOOT
SEE DROP BOX DETAIL SHEETS FOR INV. INFORMATION

SEE DROP BOX DETAIL SHEETS FOR INV. INFORMATION





50
+
00

49
+
50

49
+
20.39

50
+
00

49
+
50

49
+
20.39

TAPER FROM PROPOSED AT STA. 49+50
TO EXISTING AT STA. 50+00

SECTION ENDS
STA. 50+00.00

DITCH CL = 33'
ELEV = 624.21

DITCH CL = 33'
ELEV = 624.21

MATCH EXISTING 54.7' LT. -7.9%

PIPE CULVERT CL. D. TY 1.18' 32 FOOT

INV. (DS) = 622.33 STA. 49+04.3, 36.4 LT

INV. (US) = 623.42 STA. 49+36.3, 36.4 T

STEEL END SECTIONS 18", 2 EACH

C = 140 F = 19

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	99
FED. ROAD DIST. NO.	7	ILLINOIS	PROJECT:	BRS-0389(104)
CONTRACT NO. 89323				

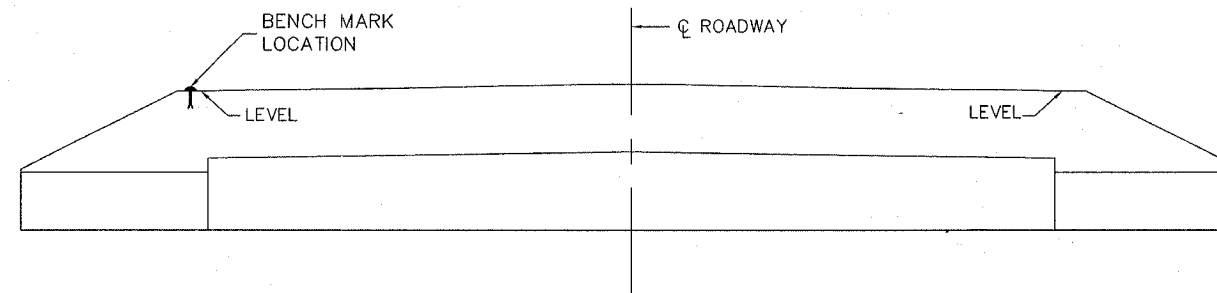
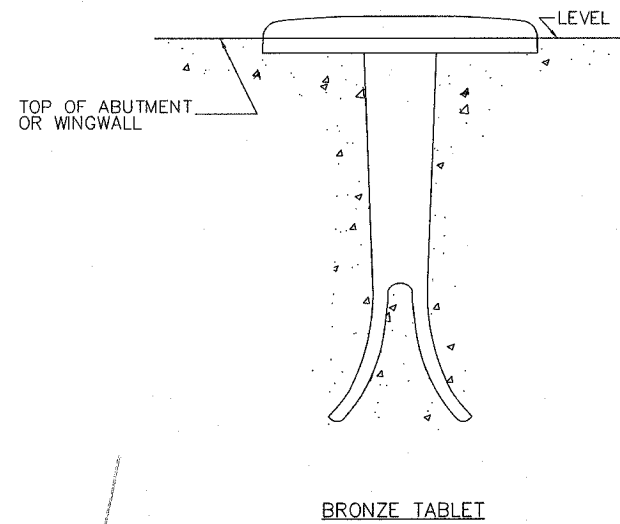
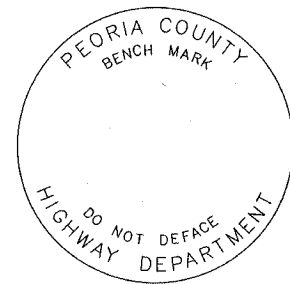
PEORIA COUNTY HIGHWAY DEPARTMENT BENCH MARK

THE BENCH MARK SHALL BE INSTALLED AT THE NORTHWEST CORNER OF THE PROPOSED BRIDGE OR BOX CULVERT IN ACCORDANCE WITH THE DETAILS SHOWN BELOW. IN GENERAL, THE BENCH MARK WILL BE PLACED IN A LEVEL AREA IN THE ABUTMENT OF THE BRIDGE OR WINGWALL OF THE BOX CULVERT SO AS TO BE READILY ACCESSIBLE.

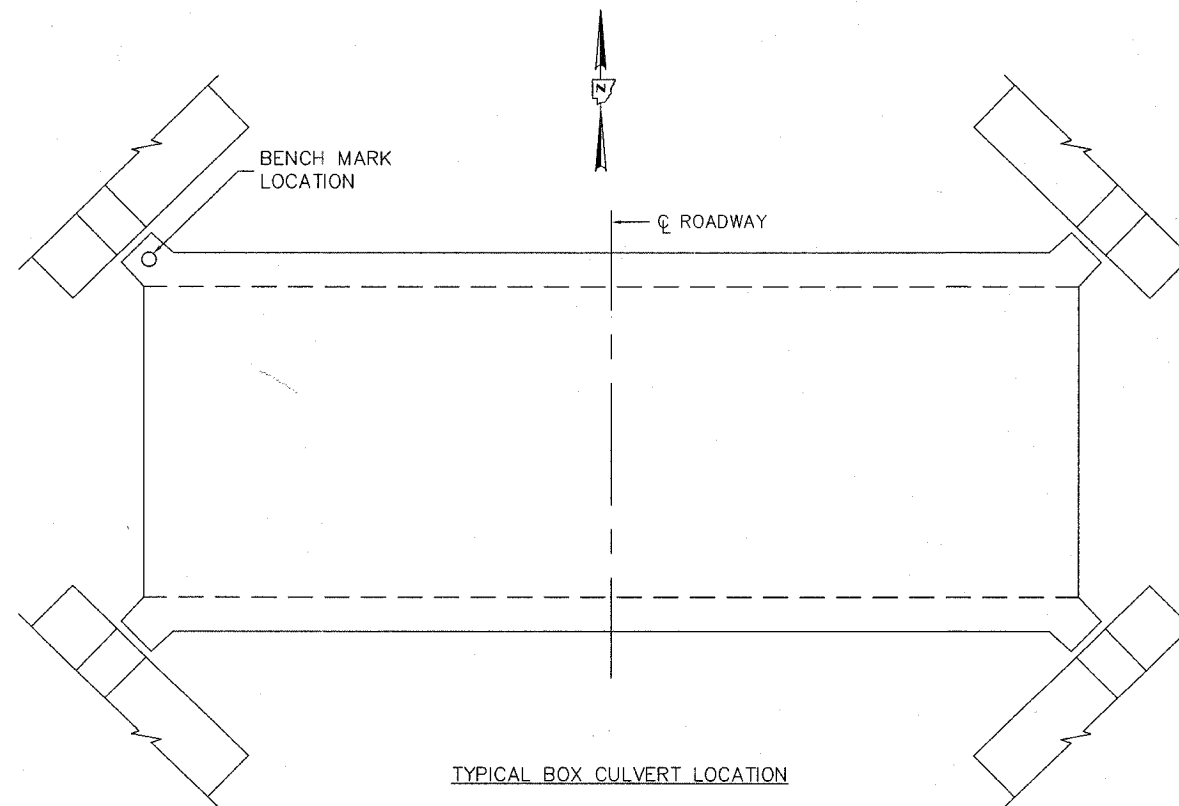
THE BENCH MARK SHALL BE PLACED UNDER THE DIRECTION OF THE ENGINEER AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.

THE ELEVATION SHALL BE PERMANENTLY MARKED BY THE USE OF METAL DIES AFTER THE BENCH MARK HAS BEEN INSTALLED. THE ELEVATION WILL BE BASED ON U.S.G.S. DATUM.

THE BRONZE TABLET TO BE INSTALLED AS THE BENCH MARK SHALL BE FURNISHED BY THE PEORIA COUNTY HIGHWAY DEPARTMENT.



TYPICAL BRIDGE LOCATION



TYPICAL BOX CULVERT LOCATION

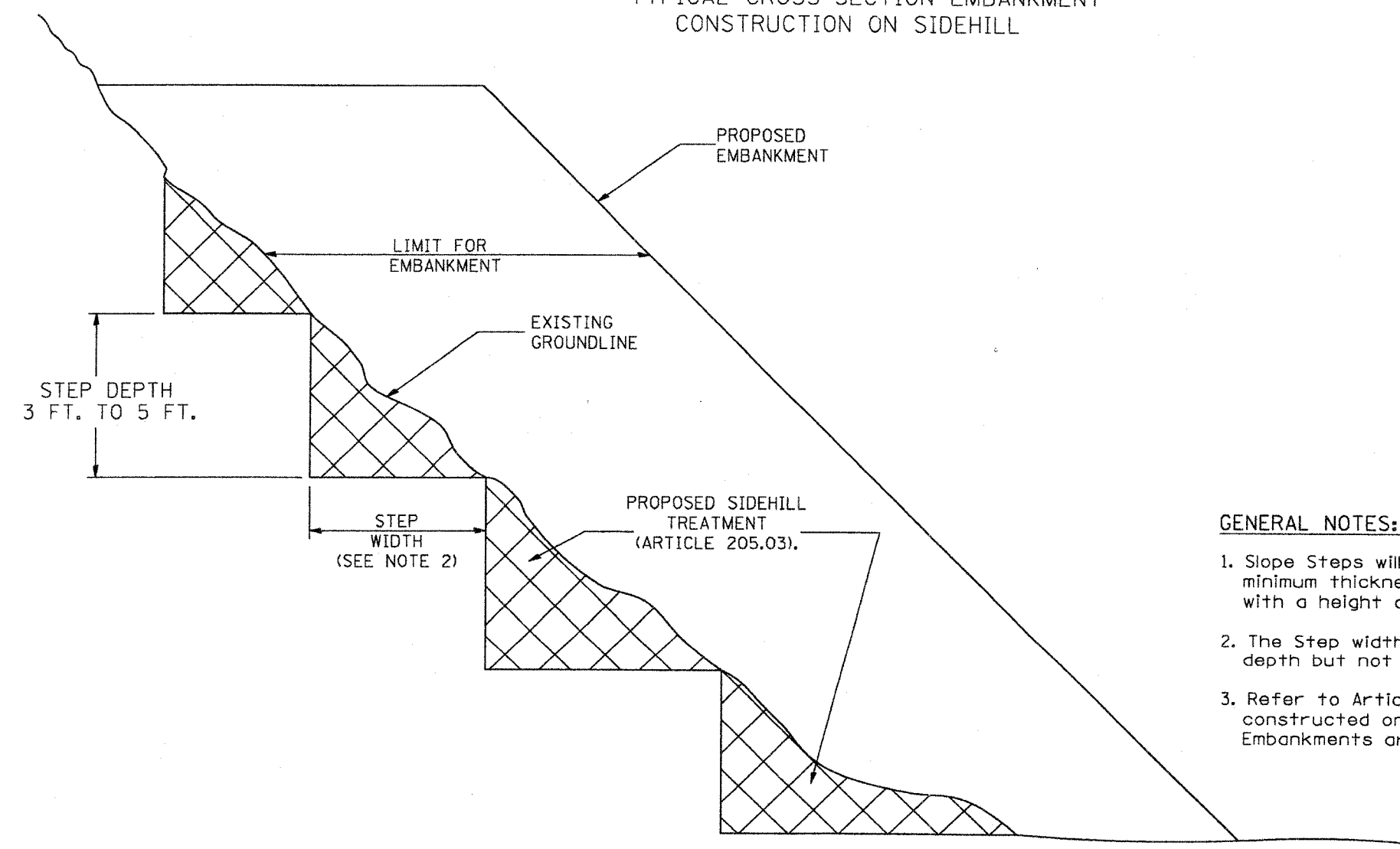
PEORIA COUNTY BENCHMARK

CONTRACT NO. 89323

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	93-00049-00-00	Peoria	100	100
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

Contract 89323

SLOPE STEPS DETAIL TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL




GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:

	STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFICATION).
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All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

DATE	REVISIONS	BY
1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

**SLOPE STEPS
DETAIL**

CADD STD. NO. 205001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY

205001-D4