

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 846 (IL 53)
SECTION 5N
AT MIDWIN NATIONAL TALLGRASS PRAIRIE
(0.8 MILE SO PRAIRIE CREEK)
PROJECT: FH-0846(021)
WILL COUNTY
C-91-050-05

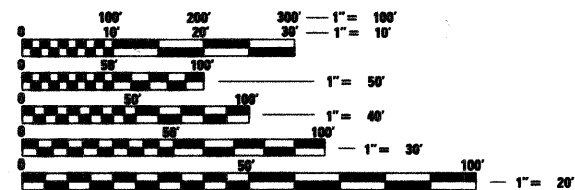
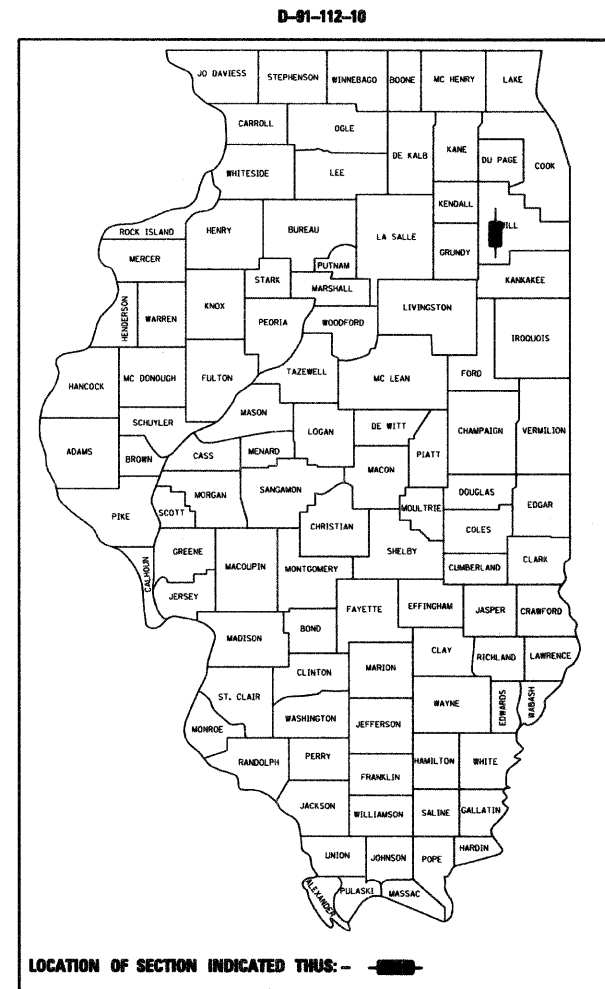
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	5N	WILL	26	1
		ILLINOIS	CONTRACT NO. 60G46	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

EXISTING ADT = 7,000 TO 7,600 (2007)
SPEED LIMIT = 55 MPH

THE IMPROVEMENT IS LOCATED WITHIN
THE CITY OF WILMINGTON

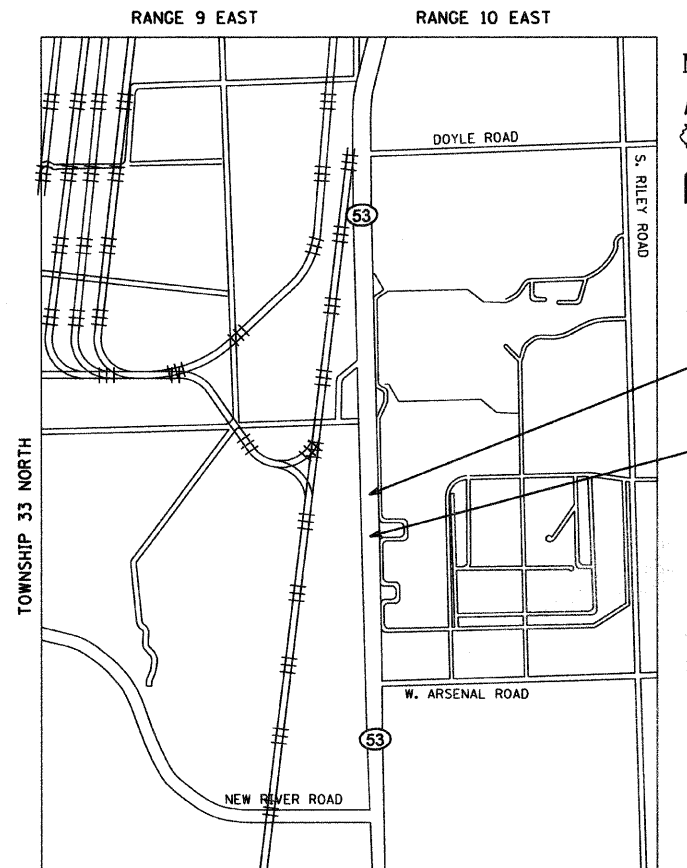


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-882-0123
OR 811

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0012
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60G46



WILMINGTON & FLORENCE TOWNSHIPS
GROSS & NET LENGTH = 1,110 FT. = 0.21 MILES

END PROJECT
STA. 25+55

BEGIN PROJECT
STA. 14+45

Peter M. Johnston
3-17-10

PETER M. JOHNSTON
062-047647
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Exp. 11-30-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 18, 2010

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Stett P.E./e
Acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed /e
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GRAEF 8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, GENERAL NOTES AND HIGHWAY STANDARDS
3	SUMMARY OF QUANTITIES
4	SCHEDULE OF QUANTITIES
5	TYPICAL SECTIONS
6	ALIGNMENT AND TIE PLAN
7	ROADWAY AND DRAINAGE PLAN
8	EROSION CONTROL
9	PAVEMENT MARKING AND LANDSCAPING PLAN
10-20	CROSS SECTIONS
21	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
22	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC11)
23	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
24	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC14)
25	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC16)
26	ARTERIAL ROAD INFORMATION SIGNING (TC22)

HIGHWAY STANDARDS

STD. NO.	TITLE
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSE
420001-07	PAVEMENT JOINTS
482011-03	HMA SHLD. STRIPS, SHDS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311-01	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600mm) THRU 54" (1350mm) PIPE)
542546-01	FLUSH INLET BOX FOR MEDIAN
601001-03	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15 FT (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT (4.5m) FROM PAVEMENT EDGE
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-02	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-02	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS NOT SHOWN.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.
- THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 AT MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.
- REMOVAL OF EXISTING RAISED REFLECTIVE MARKER LENSES SHALL BE INCIDENTAL TO PAVEMENT MARKING REMOVAL AND WILL NOT BE PAID FOR SEPARARELY.
- STANDARD 701422
 - TO BE USED FOR OVERNIGHT LANE CLOSURES
 - WILL BE IN PLACE DURING PAVEMENT REMOVAL AND PLACEMENT OF PCC BASE COURSE
 - STANDARD REQUIRES FLAGGER, WHICH DOES NOT SEEM NECESSARY WHEN NO WORK IS OCCURRING (NIGHTS, WEEKENDS)
 - PLACEMENT OF THIS STANDARD REQUIRES REMOVAL OF SOME EXISTING LANE LINE PAVEMENT MARKING AND REMOVAL OF LENSES IN PAVEMENT MARKERS
- STANDARD 701421
 - TO BE USED FOR DAYTIME LANE CLOSURES AND WILL BE USED WHEN STD. 701422 IS NOT IN PLACE
 - IF WORKING IN THE MEDIAN, CLOSURE OF BOTH NB AND SB LANES 1 WOULD LIKELY BE REQUIRED, WHICH WOULD MEAN THAT NB LANE 2 CANNOT BE CLOSED AT THE SAME TIME
 - WORK WILL HAVE TO BE STAGED IN ORDER TO ALLOW ACCESS TO MEDIAN CROSSOVER AND ENTRANCE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT WIDENING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5mm)	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE A IS 112 LBS/SQ YD/IN.
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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FILE NAME =	USER NAME = _USER_	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE INDEX OF SHEETS, HWY STDS AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0045' / IN.	DRAWN - EF	REVISED -			846	5N		26	2	
	PLOT DATE = 3/26/2010	CHECKED - RS	REVISED -			SCALE: NTS		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
		DATE - 03/26/2010	REVISED -			ILLINOIS FED. AID PROJECT					
							CONTRACT NO. 60G46				

SUMMARY OF QUANTITIES

URBAN
80% FED.
20% STATE

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	1000-2A ROADWAY
20200100	EARTH EXCAVATION	CU YD	1	1
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	4,537	4,537
20400800	FURNISHED EXCAVATION	CU YD	1,848	1,848
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,165	1,165
20800150	TRENCH BACKFILL	CU YD	65	65
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,481	3,481
25000210	SEEDING, CLASS 2A	ACRE	0.72	0.72
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	65	65
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	65	65
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	65	65
25100630	EROSION CONTROL BLANKET	SQ YD	3,481	3,481
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	72	72
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60
28000400	PERIMETER EROSION BARRIER	FOOT	1,145	1,145
28100107	STONE RIPRAP, CLASS A4	SQ YD	27	27
28200200	FILTER FABRIC	SQ YD	27	27
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,845	2,845
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	2,845	2,845
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	168	168
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	252	252
44000100	PAVEMENT REMOVAL	SQ YD	762	762
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	157	157
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,369	1,369
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	67	67
48102100	AGGREGATE WEDGE SHOULDERS, TYPE B	TON	116	116
50105220	PIPE CULVERT REMOVAL	FOOT	62	62

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

URBAN
80% FED.
20% STATE

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	1000-2A ROADWAY
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	225	225
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	89	89
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1	1
54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	2	2
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	1	1
60107600	PIPE UNDERDRAINS 4"	FOOT	100	100
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	12	12
67000400	ENGINEERS FIELD OFFICE TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	36	36
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	11	11
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	80	80
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146	146
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,658	1,658
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	508	508
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14
* 78100300	REPLACEMENT REFLECTOR	EACH	34	34
78300100	PAVEMENT MARKING REMOVAL	SQ FT	110	110
X0301766	DRILL AND GROUT #6 TIE BARS	EACH	714	714
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102	102
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

* DENOTES SPECIALTY ITEM

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FILE NAME =	USER NAME = _USER_	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0045' / IN.	DRAWN - EF	REVISED -			846	5N	WILL	26	3	
	PLOT DATE = 3/26/2010	CHECKED - RS	REVISED -			CONTRACT NO. 60G46					
		DATE - 03/26/2010	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: NTS	SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.		

STATION	TOTAL LENGTH	20200100		20201200		EMBANKMENT END AREA	EMBANKMENT CY	POROUS GRANULAR EMBANKMENT, SUBGRADE END AREA	POROUS GRANULAR EMBANKMENT, SUBGRADE CY	48102100 AGGREGATE WEDGE SHOULDERS, TYPE B - TON	21101615 TOPSOIL FURNISH AND PLACE, 4" SY	25100630 EROSION CONTROL BLANKET SY	25000210 SEEDING, CLASS 2A AC
		EARTH EXCAVATION END AREA	EARTH EXCAVATION CY	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL END AREA	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CY								
12+38		0		0		0		0					
12+50	12	0	0	55	12	31	7	0	0	0	19	19	0.004
13+00	50	0	0	50	97	28	55	0	0	0	154	154	0.032
13+50	50	0	0	48	90	27	51	0	0	0	145	145	0.030
14+00	50	0	0	47	88	26	49	0	0	0	141	141	0.029
14+50	50	0	0	62	101	32	54	5	5	2	131	131	0.027
15+00	50	0	0	64	116	33	60	9	13	4	119	119	0.025
15+50	50	0	0	69	123	36	64	14	22	4	108	108	0.022
16+00	50	0	0	69	128	37	68	21	32	4	101	101	0.021
16+50	50	0	0	72	130	37	68	29	46	4	96	96	0.020
17+00	50	0	0	71	132	35	67	32	57	4	76	76	0.016
17+50	50	0	0	70	131	37	66	31	59	4	69	69	0.014
18+00	50	0	0	75	135	40	71	32	58	4	86	86	0.018
18+50	50	0	0	149	208	97	127	33	60	9	185	185	0.038
19+00	50	0.30	0.27	152	279	98	181	33	61	11	273	273	0.056
19+50	50	0	0.27	169	297	53	140	80	105	11	207	207	0.043
20+00	50	0	0	225	365	0	49	70	139	7	71	71	0.015
20+50	50	0	0	157	353	33	30	75	134	3	43	43	0.009
21+00	50	0	0	112	249	59	85	22	89	5	143	143	0.030
21+50	50	0	0	91	188	20	73	22	41	5	168	168	0.035
22+00	50	0	0	91	169	28	44	25	44	4	133	133	0.027
22+50	50	0	0	90	167	21	45	21	43	2	130	130	0.027
23+00	50	0	0	115	189	19	37	20	38	2	165	165	0.034
23+38	38	1	0.70	69	129	23	29	20	28	1	98	98	0.020
23+50	12	0	0.22	68	30	22	10	19	8	0	17	17	0.004
24+00	50	0	0	69	127	27	46	14	30	2	91	91	0.019
24+50	50	0	0	69	128	28	51	10	23	4	107	107	0.022
25+00	50	0	0	69	128	36	59	7	16	6	121	121	0.025
25+50	50	0	0	69	127	45	75	5	11	6	132	132	0.027
26+00	50	0	0	60	119	50	87	0	4	5	152	152	0.031
TOTAL			1		4537		1849		1165	116	3481	3481	0.72

20400800
1848 FURNISH EXCAVATION
 Assume 15% shrinkage factor, increase quantity

STATION		SIGN ID #	SIZE (inches)	72400100	72400710	72000100	7800100
				SIGN PANEL ASSEMBLY REMOVAL (EACH)	RELOCATE SIGN PANEL TYPE 1	SIGN PANEL TYPE 1 (SQ.FT.)	TELESCOPING STEEL SIGN SUPPORT (FT.)
18+54	RT	R3-5	30x36	0	0	7.5	11.5
19+38	RT	R6-2	18x24	0	0	3	13.5
		R4-7	30x36	0	0	7.5	
19+66	RT	R1-2	36x36x36	2	0	0	0
		R6-2R	24x30		0	0	0
19+68	LT	R6-2	18x24	0	0	3	
20+19	LT	R1-2	36x36x36	1	0	0	0
		R6-2L	24x30		0	0	
20+62	RT	R1-1	30x30		6.25	0	
		R6-3a	30x24	0	5	0	13
20+78	RT	R4-7	30x36	0	0	7.5	
		R3-5	30x36	0	0	7.5	41.5
TOTAL				3	11.25	36	79.5

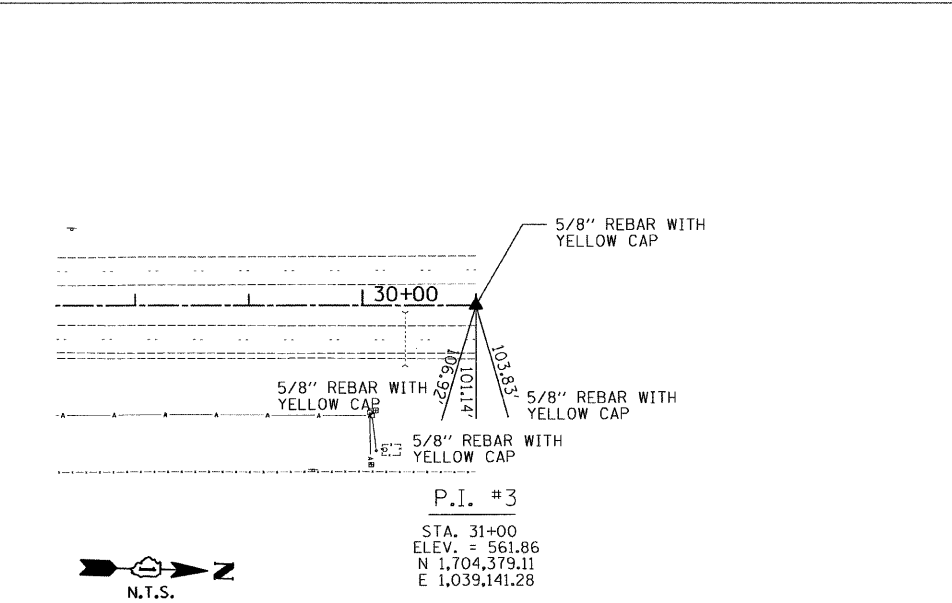
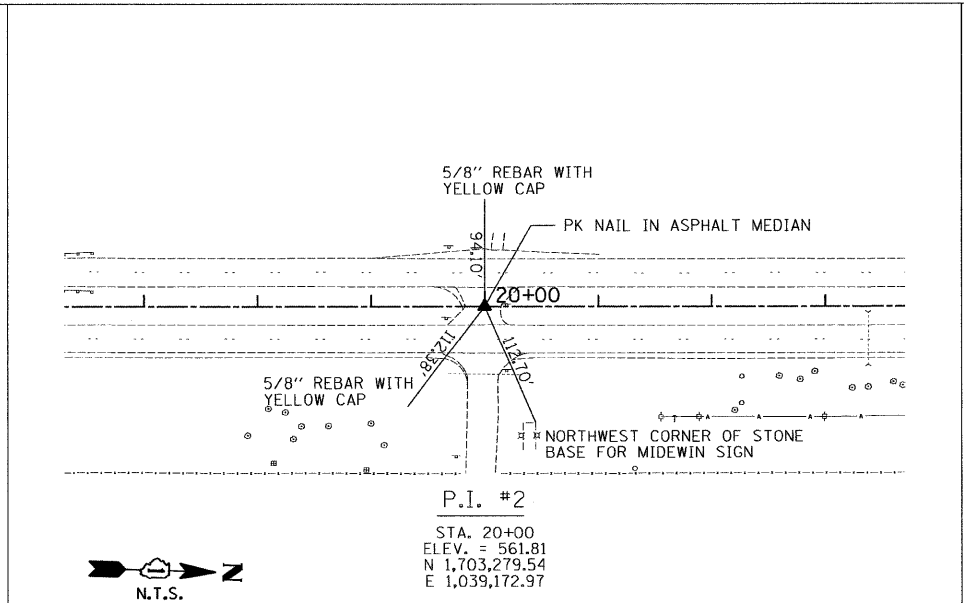
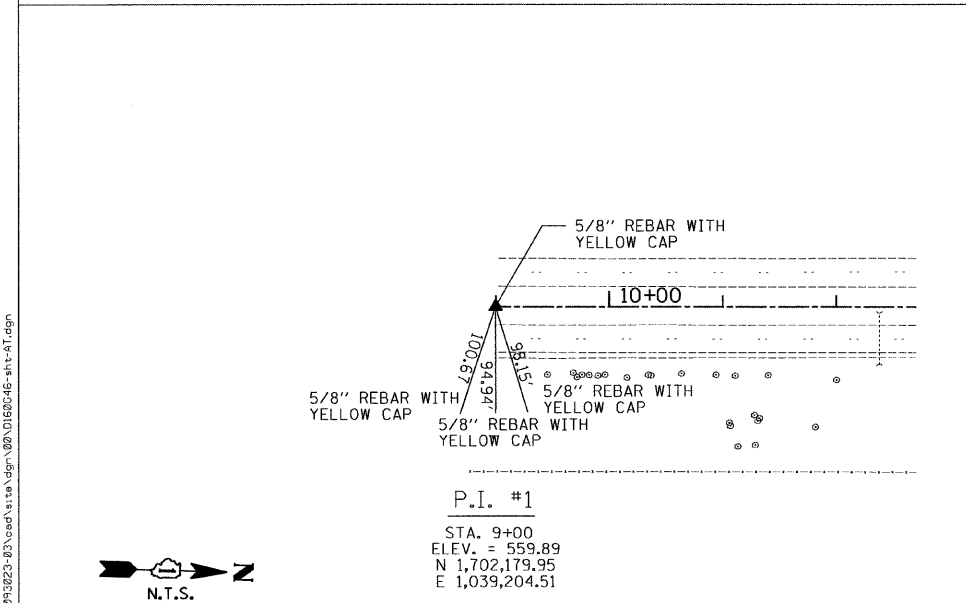
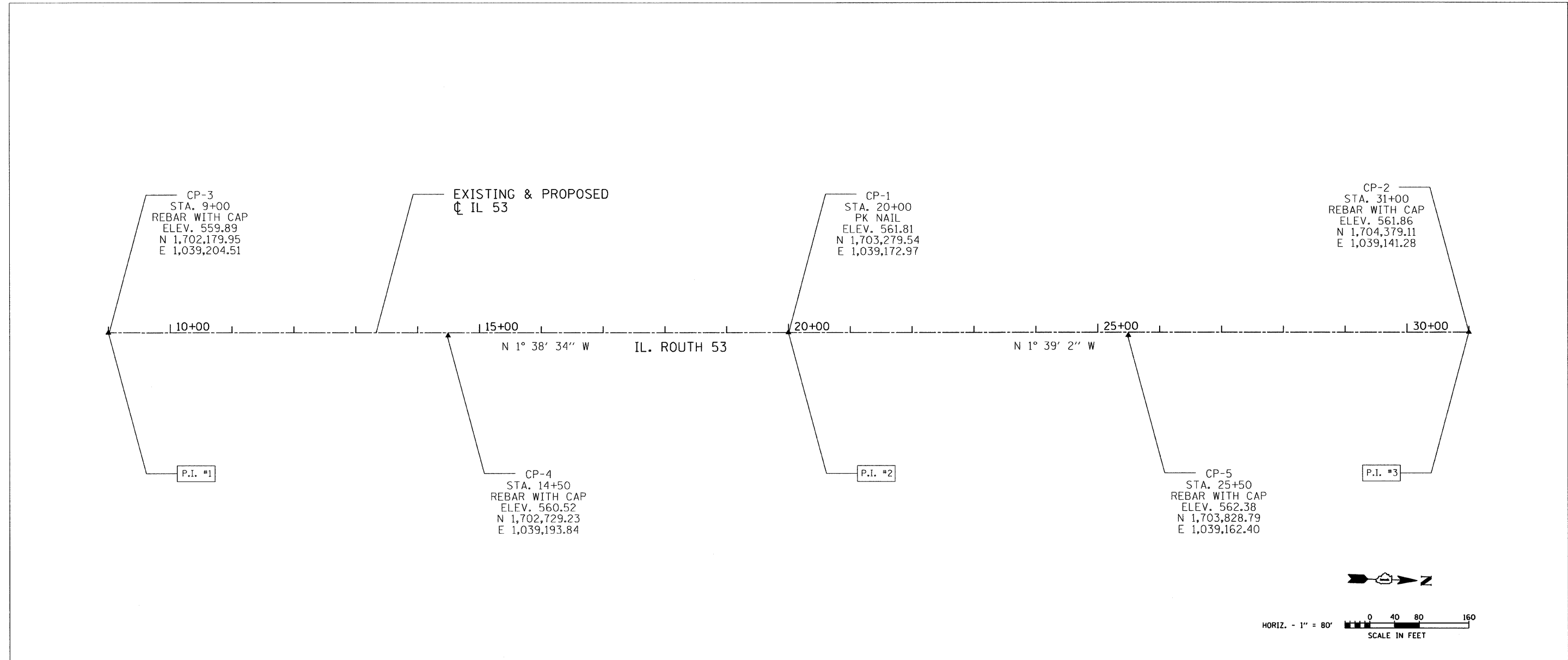
FROM	TO	LENGTH	78000200			78000400	78000100
			4" YELLOW SOLID	4" WHITE SKIP	4" WHITE SOLID	6" WHITE SOLID	LETTERS & SYMBOLS
7+85	14+45	660	0	165	0	0	0
14+45	16+85	240	0	0	240	0	0
16+85	19+25	240	0	0	240	240	73
19+25	20+00	75	88	0	95	0	0
20+00	24+00	400	388	0	122	268	73
24+00	25+55	155	155	0	0	0	0
25+55	32+15	660	0	165	0	0	0
TOTAL			631	330	697	508	146

STATION		44000200	44000100	31101200	35300500	40600200	40600625	40603335	48101500	
FROM	TO	TOTAL WIDENING AREA SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" SQ YD	PAVEMENT REMOVAL SQ YD	SUB-BASE GRANULAR MATERIAL, TYPE B 4" SQ YD	PORTLAND CEMENT CONCRETE BASE COURSE 10" SQ YD	BITUMINOUS MATERIALS (PRIME COAT) TON	LEVELING BINDER (MACHINE METHOD), N50 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 TON	AGGREGATE SHOULDERS, TYPE B 6" SY
14+50	16+50	212	23	46	258	258	0.2	16	24	0
16+50	18+50	353	22	44	397	397	0.3	23	35	0
18+50	20+50	701	49	545	1,246	1,246	1.0	72	109	0
20+50	22+50	438	30	59	497	497	0.4	30	44	17
22+50	24+50	304	22	44	348	348	0.3	21	31	50
24+50	25+55	77	12	23	100	100	0.1	6	9	0
TOTAL		2,083	157	762	2,845	2,845	2	168	252	67

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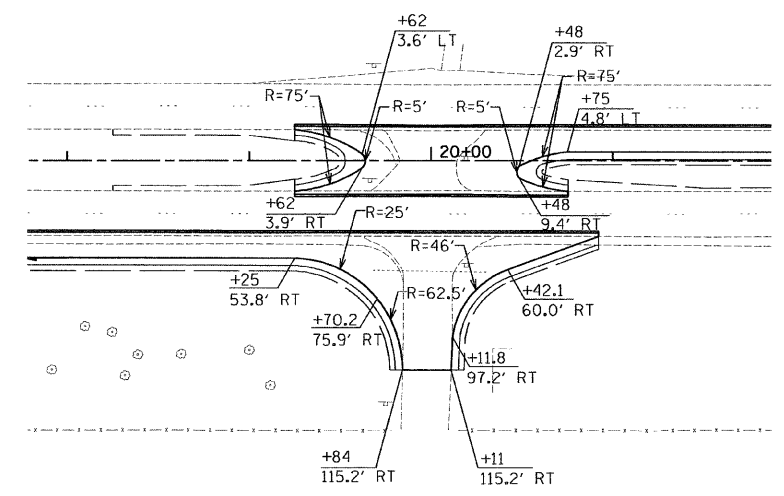
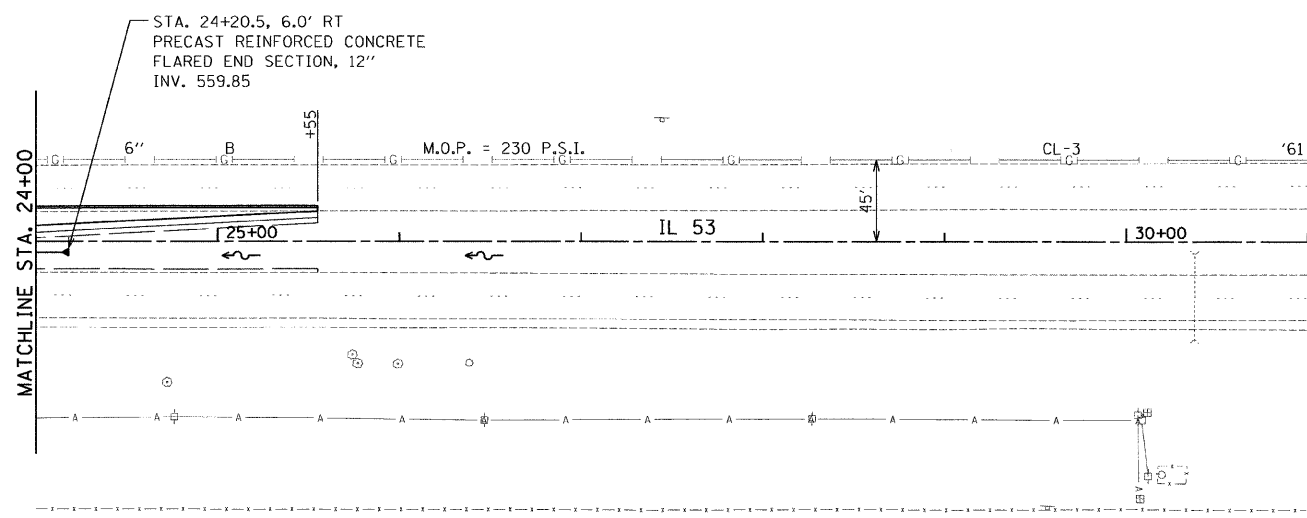
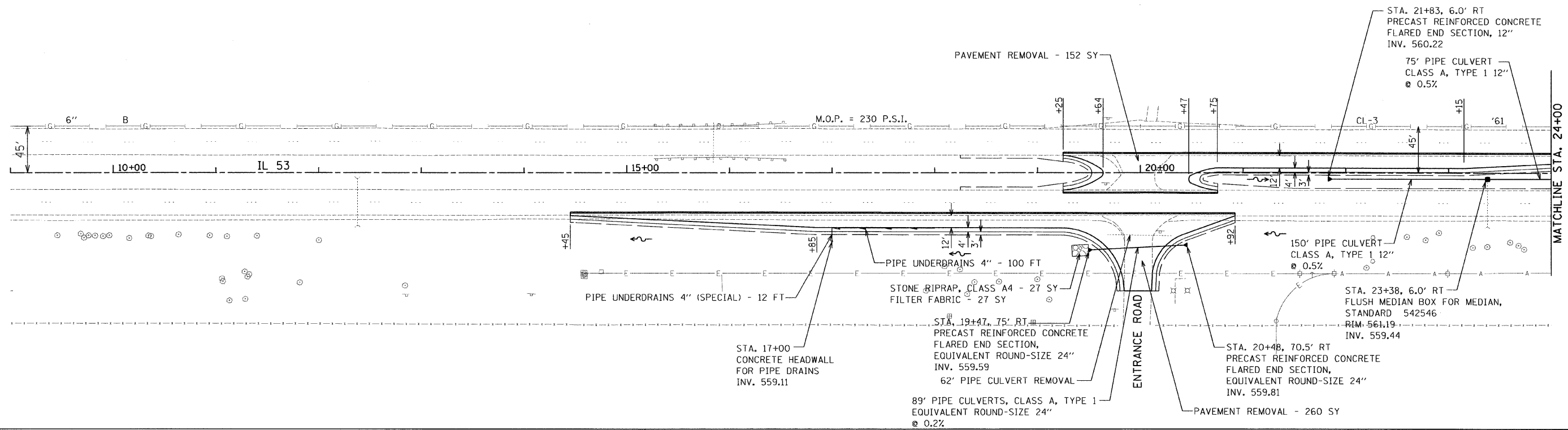
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FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE SCHEDULE OF QUANTITIES		F.A.P. RTE. 846	SECTION 5N	COUNTY WILL	TOTAL SHEETS 26	SHEET NO. 4
	PLOT SCALE = 50,0000 ' / IN.	DRAWN - EF	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	CONTRACT NO. 60G46		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 4/12/2010	CHECKED - RS	REVISED -		TO STA.						
		DATE - 03/26/2010	REVISED -								



FILE NAME = USER NAME = .USER. PLOT SCALE = 80.0158' / IN. PLOT DATE = 3/26/2010	DESIGNED - AR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 53 AT MIDEWIN NATIONAL TALLGRASS PRAIRIE ALIGNMENT AND TIE SHEET		F.A.P. RTE. 846	SECTION 5N	COUNTY WILL	TOTAL SHEETS 26	SHEET NO. 6		
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	CHECKED - RS	REVISED -										
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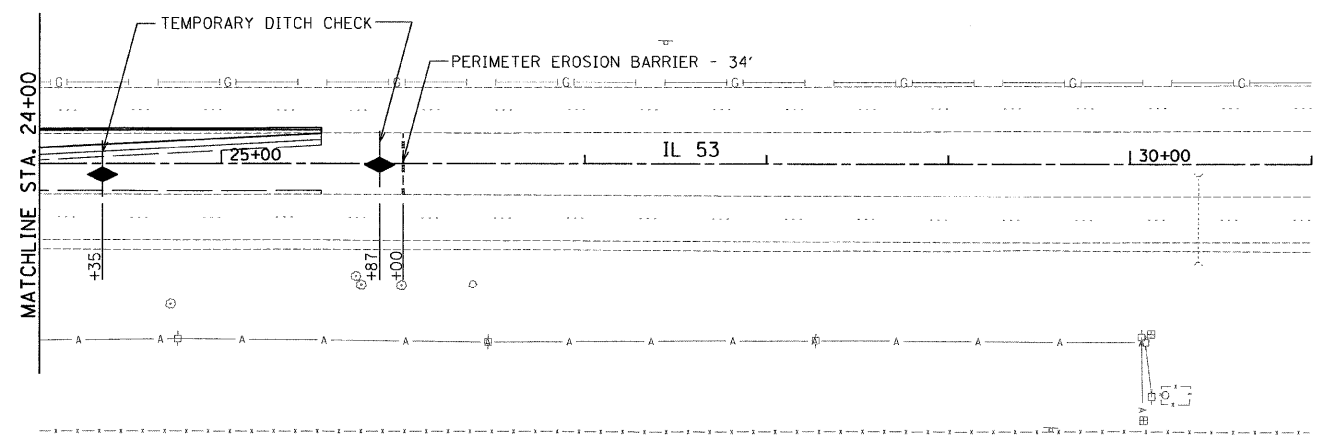
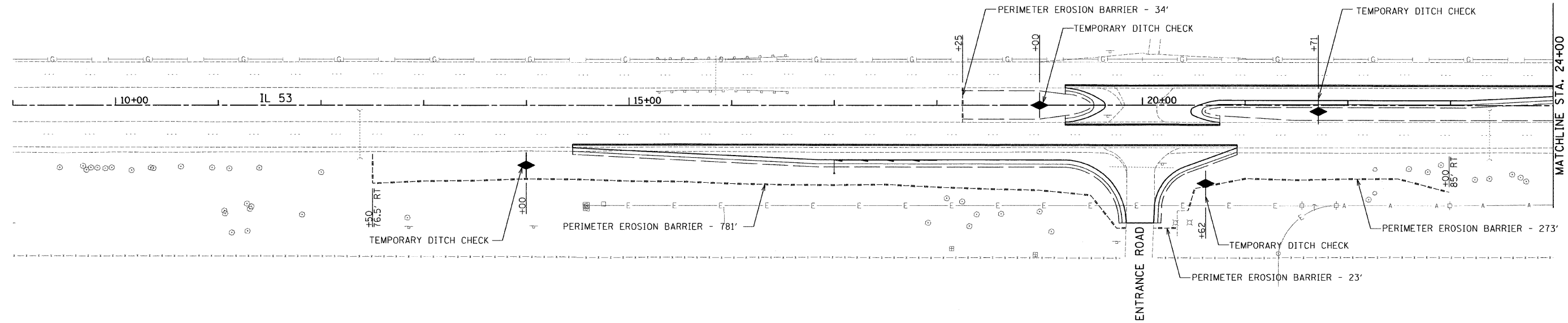
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE
ROADWAY AND DRAINAGE PLAN**

SCALE: 50 SHEET NO. 1 OF 1 SHEETS STA. 9+00 TO STA. 31+00

F.A.P. R.T.E. 846	SECTION 5N	COUNTY WILL	TOTAL SHEETS 26	SHEET NO. 7
CONTRACT NO. 60G46				ILLINOIS FED. AID PROJECT



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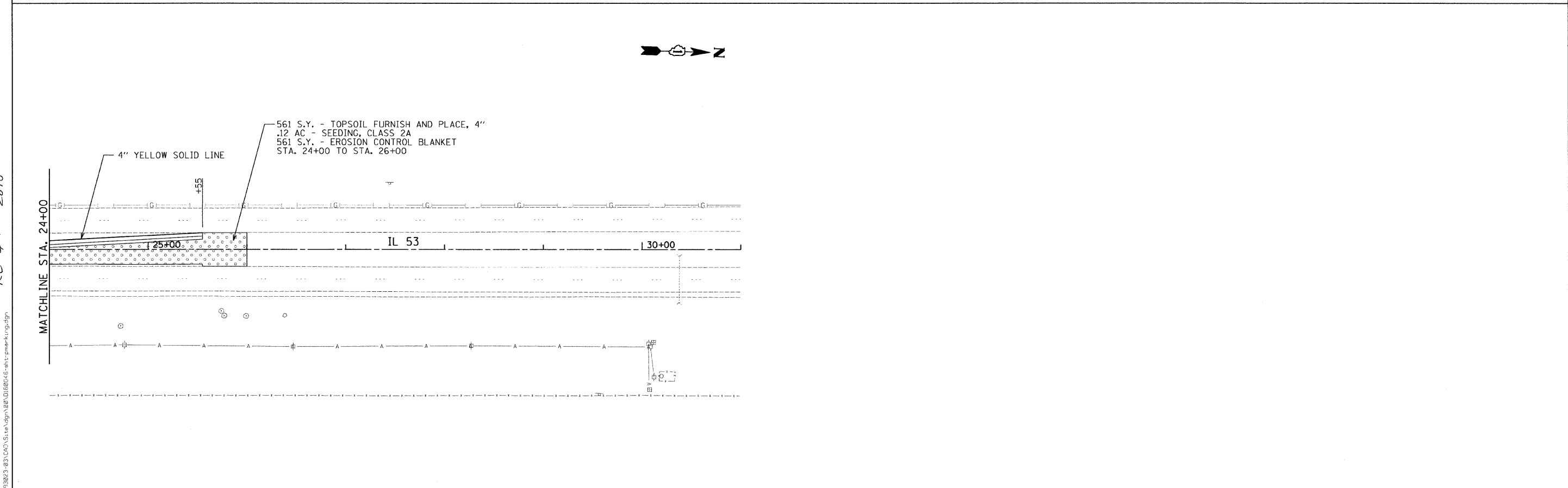
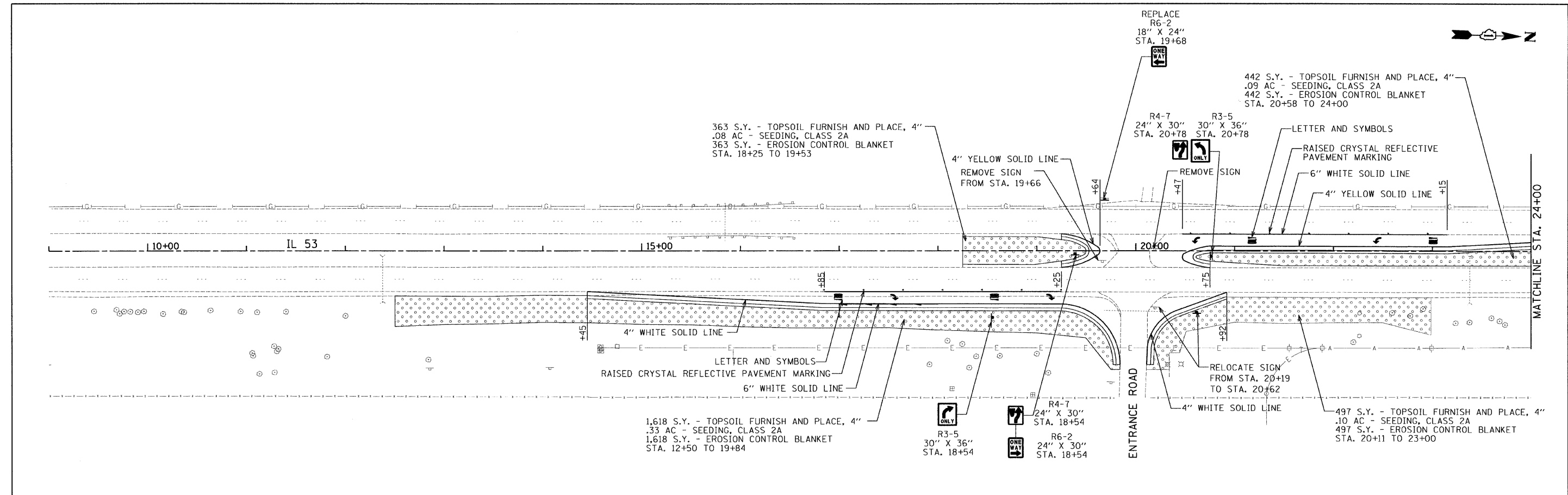
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PLLOT DATE = 3/26/2010		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE
EROSION CONTROL PLAN

SCALE: 50 SHEET NO. 1 OF 1 SHEETS STA. 9+00 TO STA. 31+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	5N	WILL	26	8
CONTRACT NO. 60C46			ILLINOIS FED. AID PROJECT	



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	DATE - 03/26/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 53 AT MIDWIN NATIONAL TALLGRASS PRAIRIE
PAVEMENT MARKING AND LANDSCAPING PLAN**

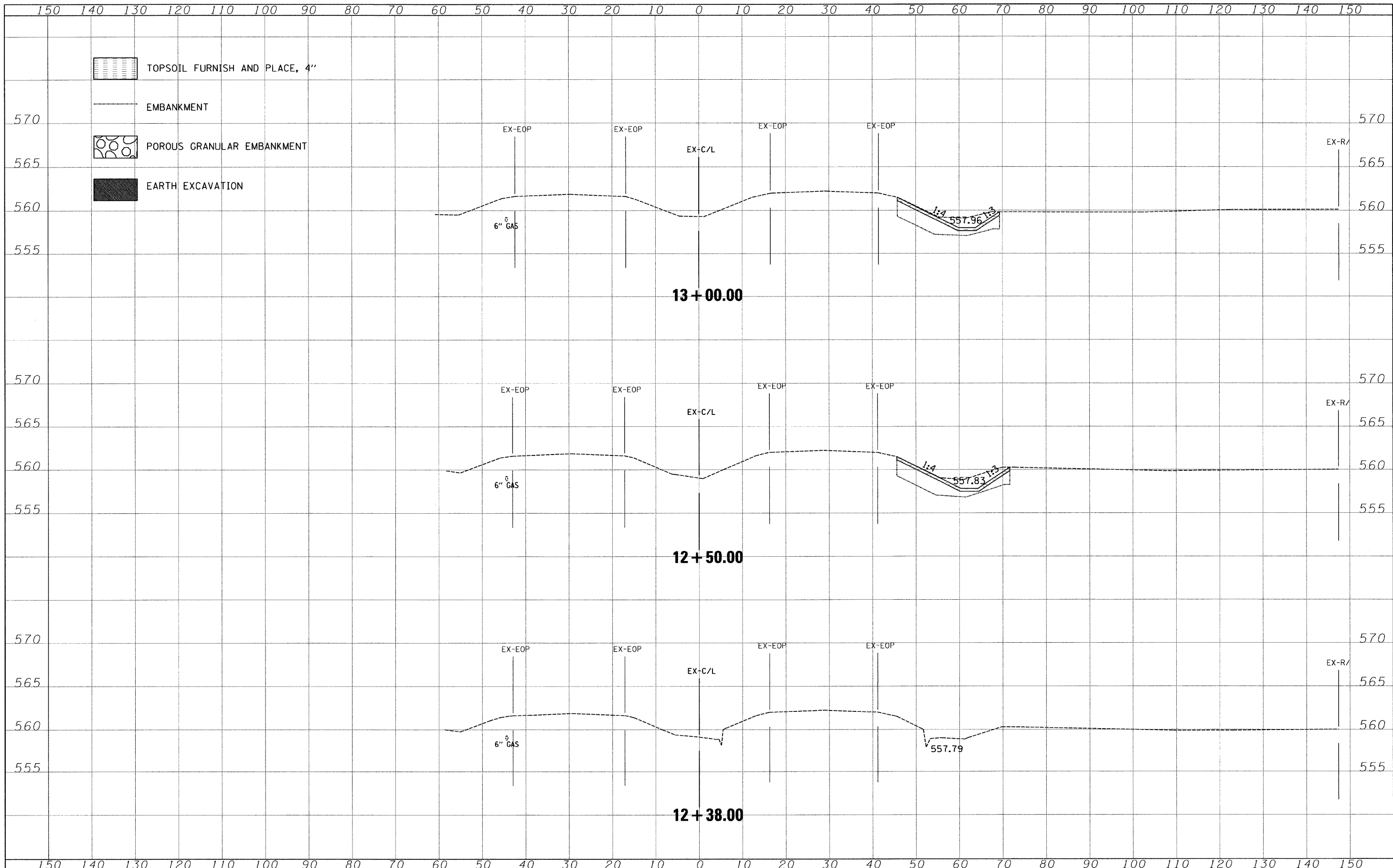
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	5N	WILL	26	9

CONTRACT NO. 60G46
ILLINOIS FED. AID PROJECT

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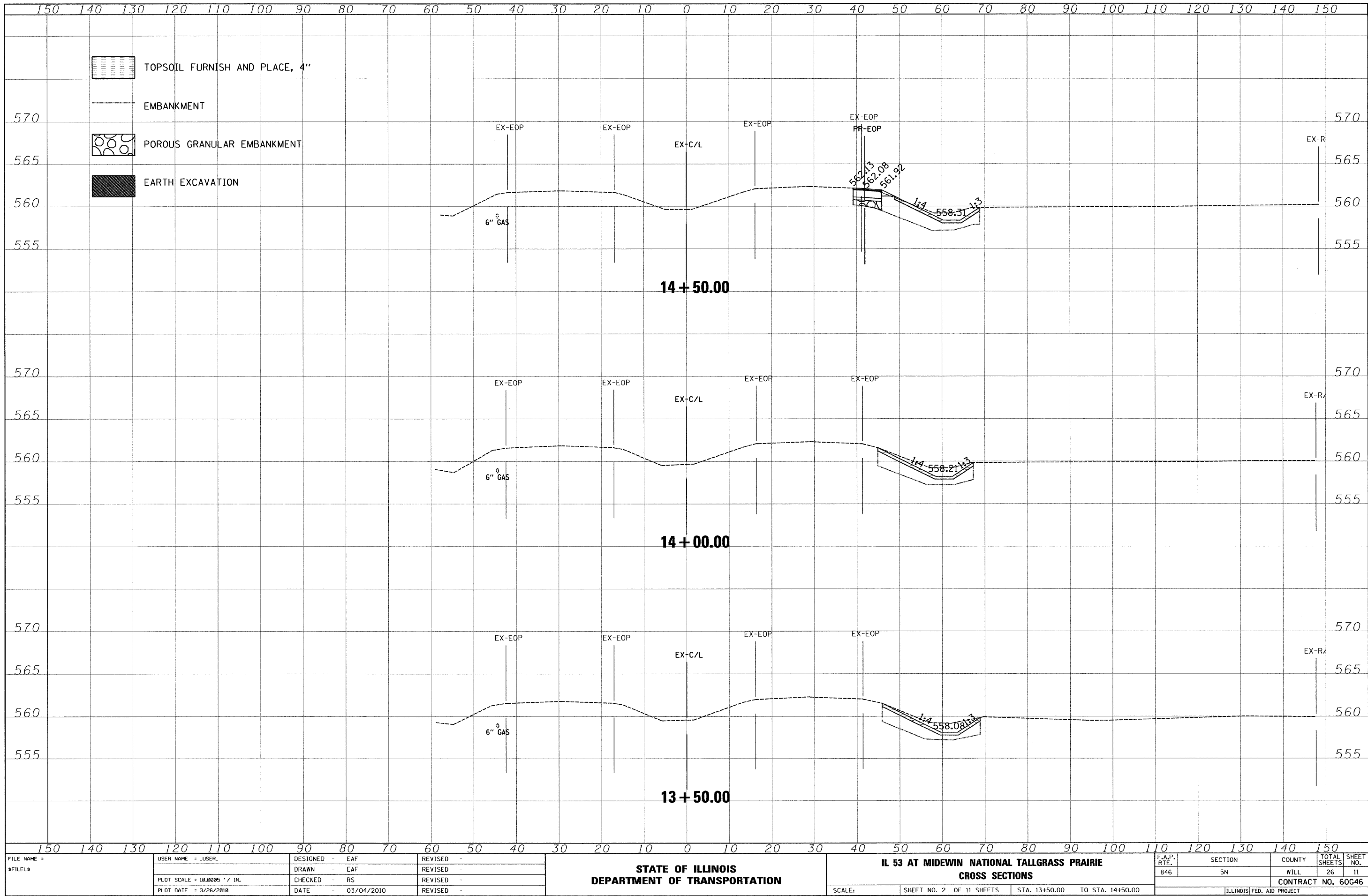
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		DATE - 03/04/2010	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 1 OF 11 SHEETS		STA. 12+38.00 TO STA. 13+00.00			

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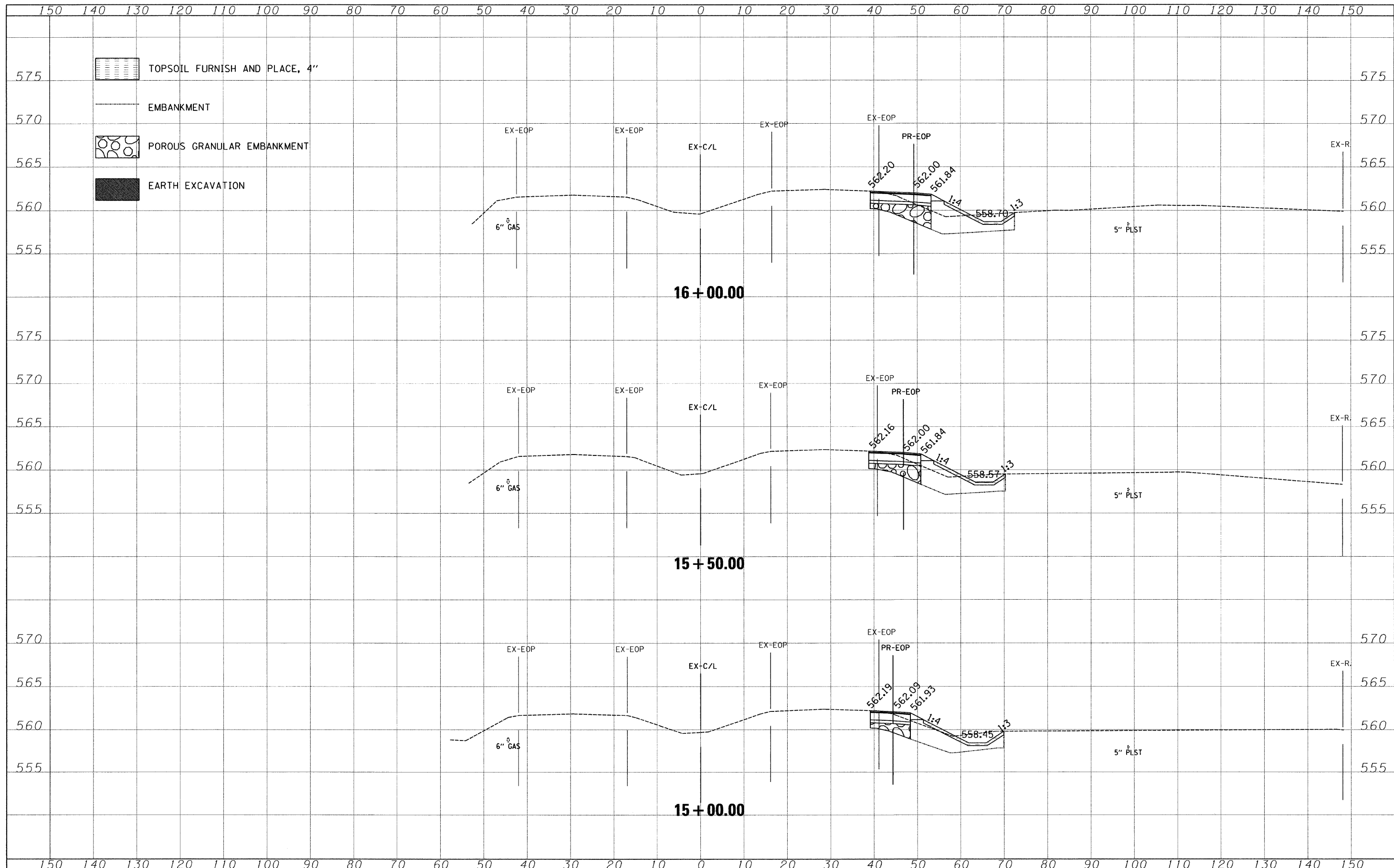
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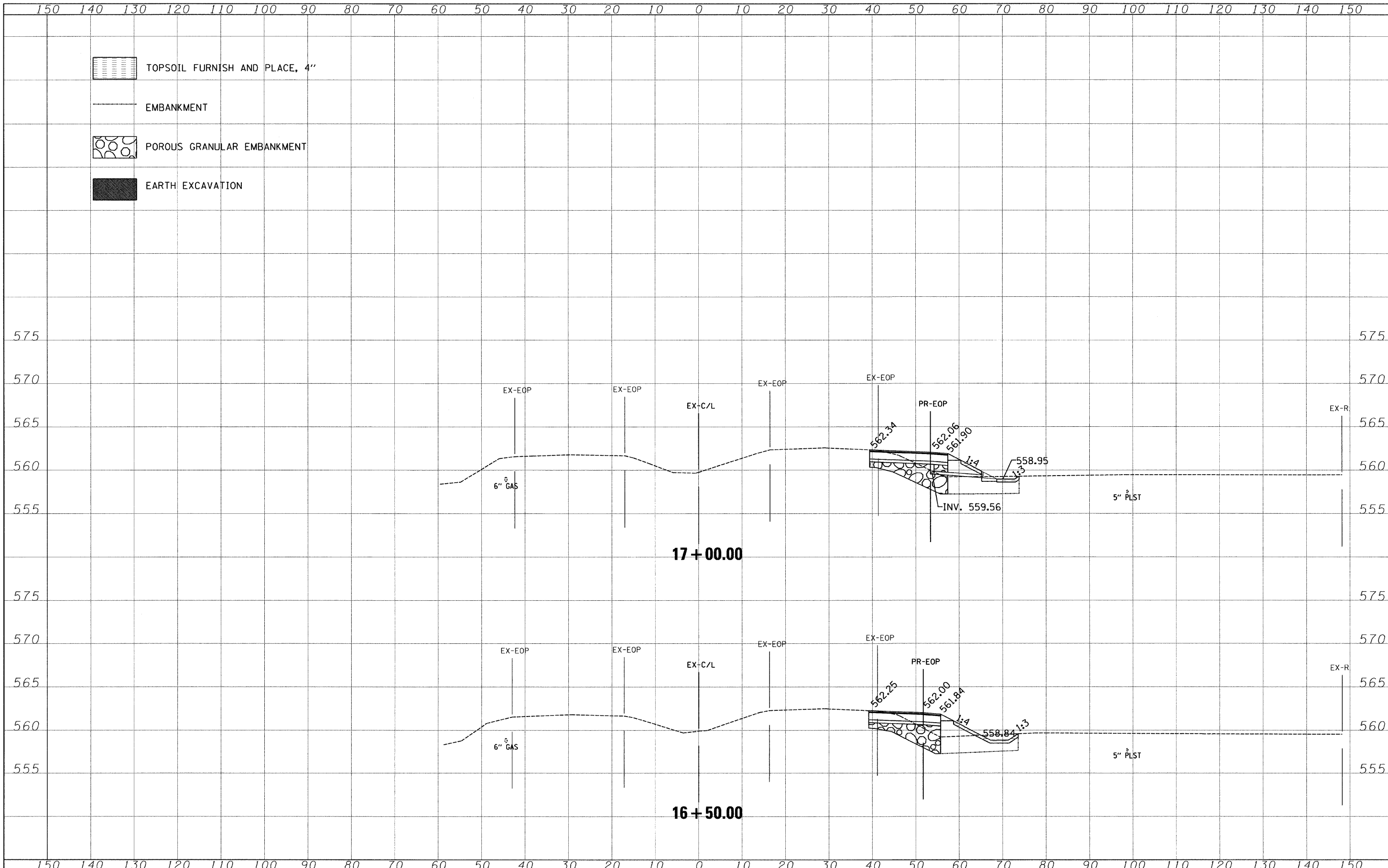
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		DATE - 03/04/2010	REVISED -			ILLINOIS FED. AID PROJECT					

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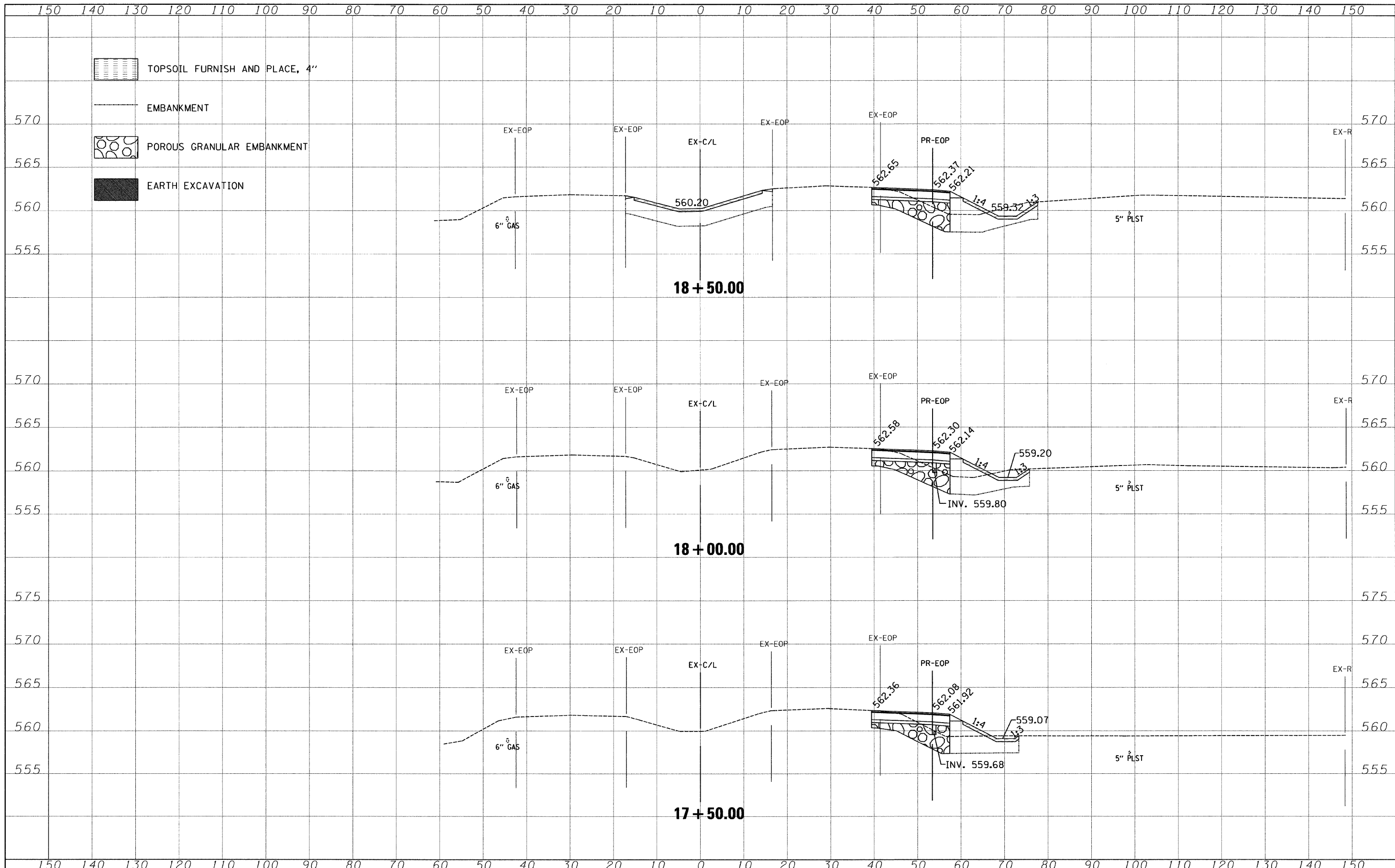
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	PLOT DATE = 3/26/2010	CHECKED - RS	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 03/04/2010	REVISED -									

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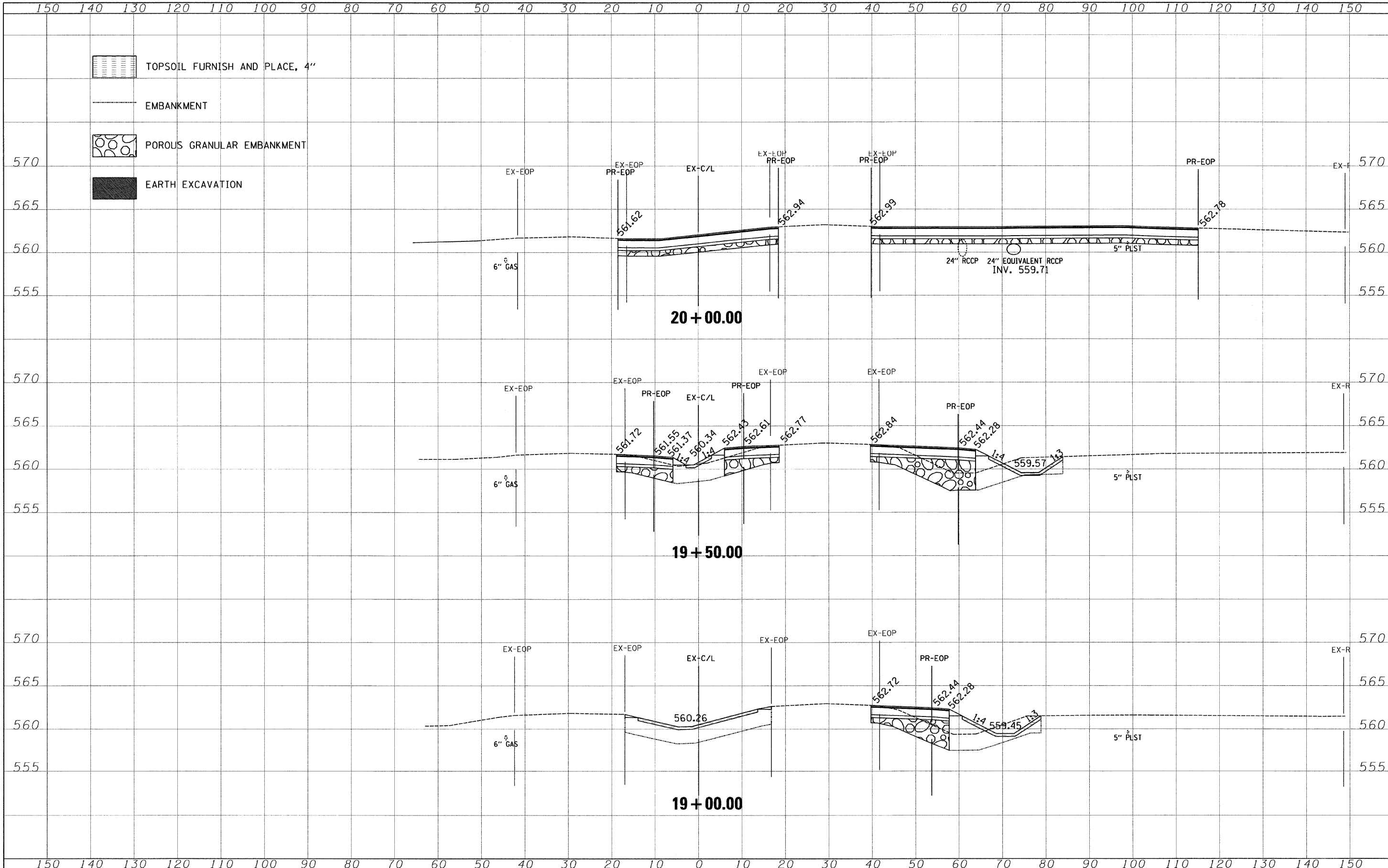
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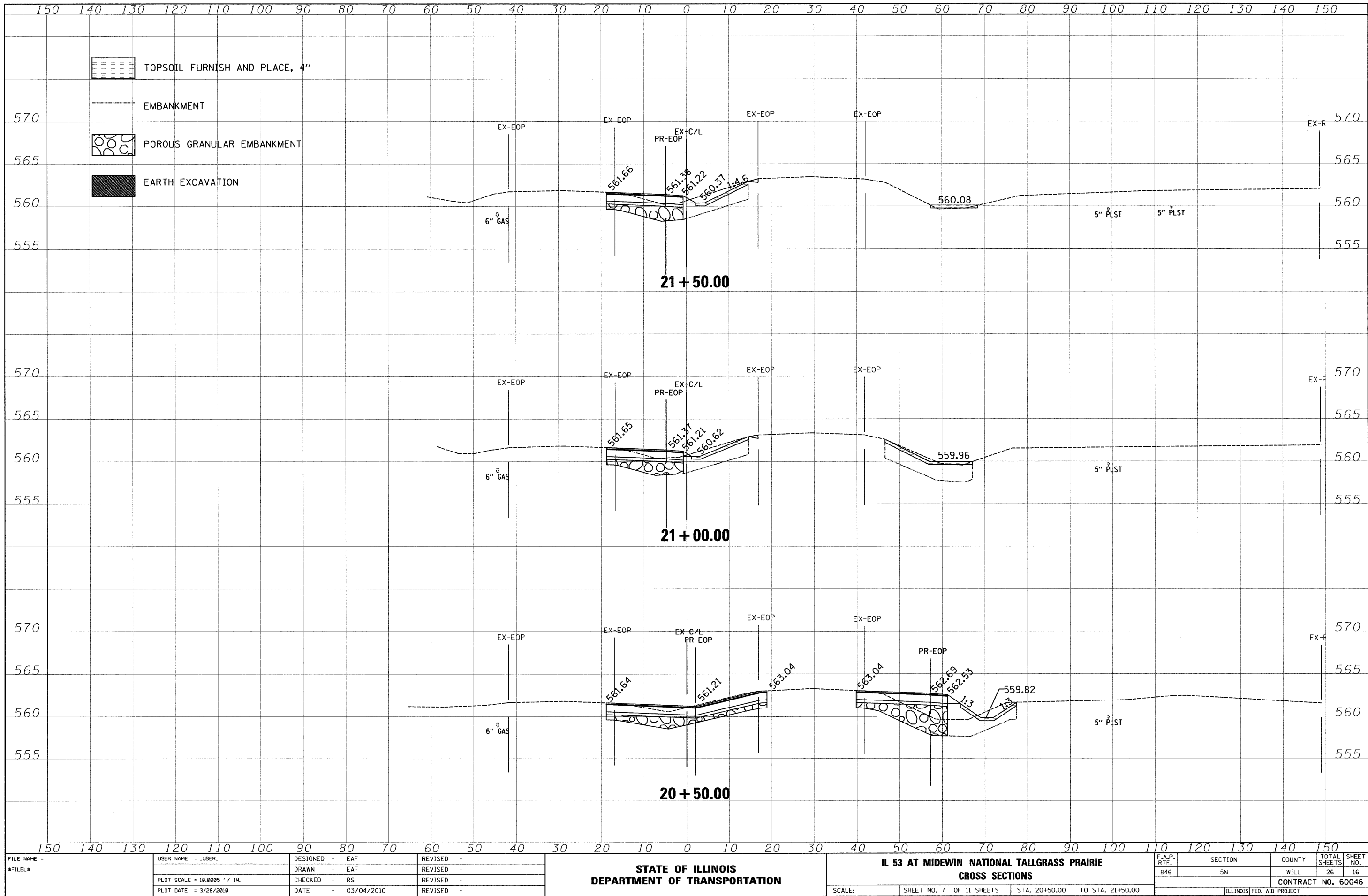
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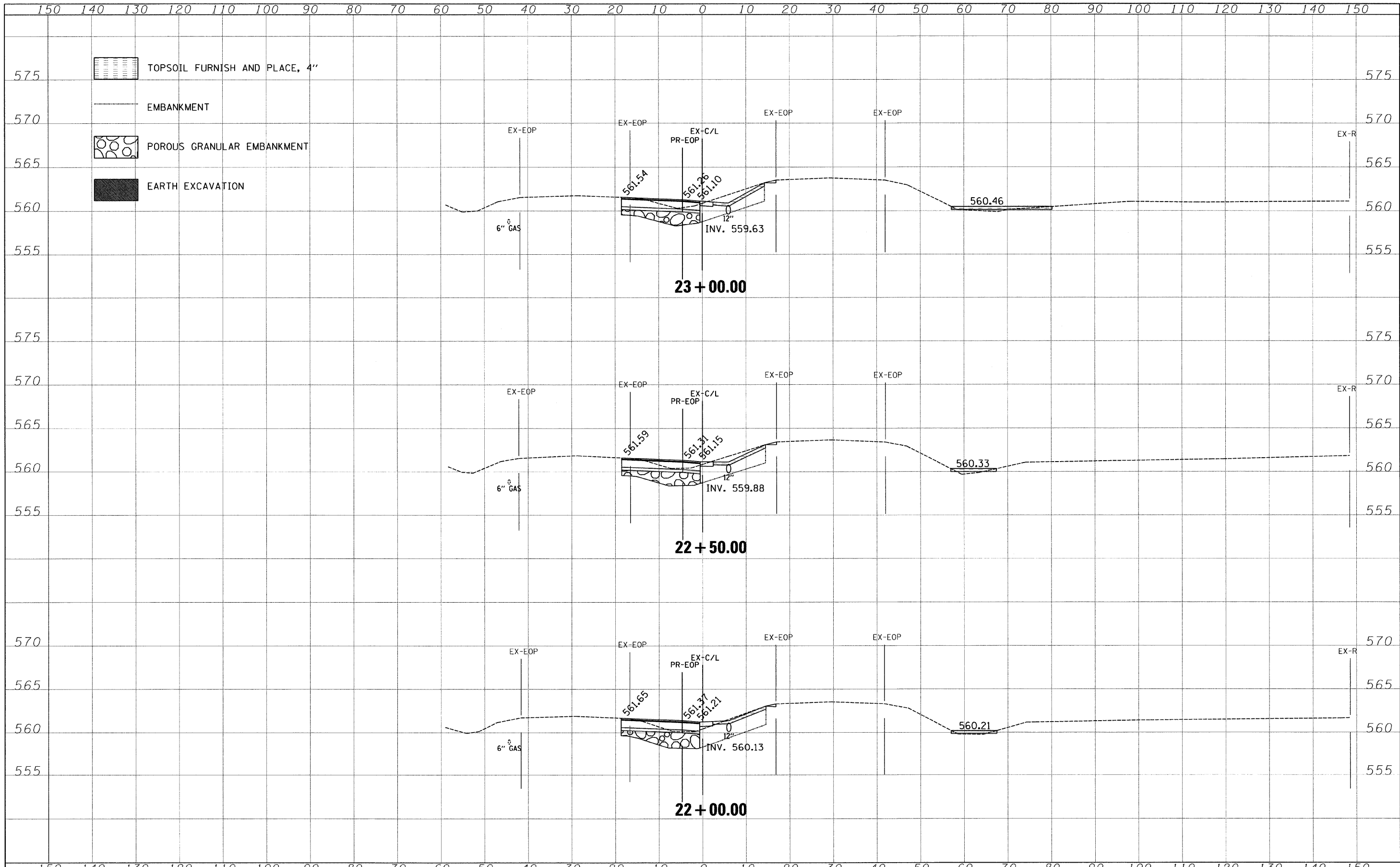
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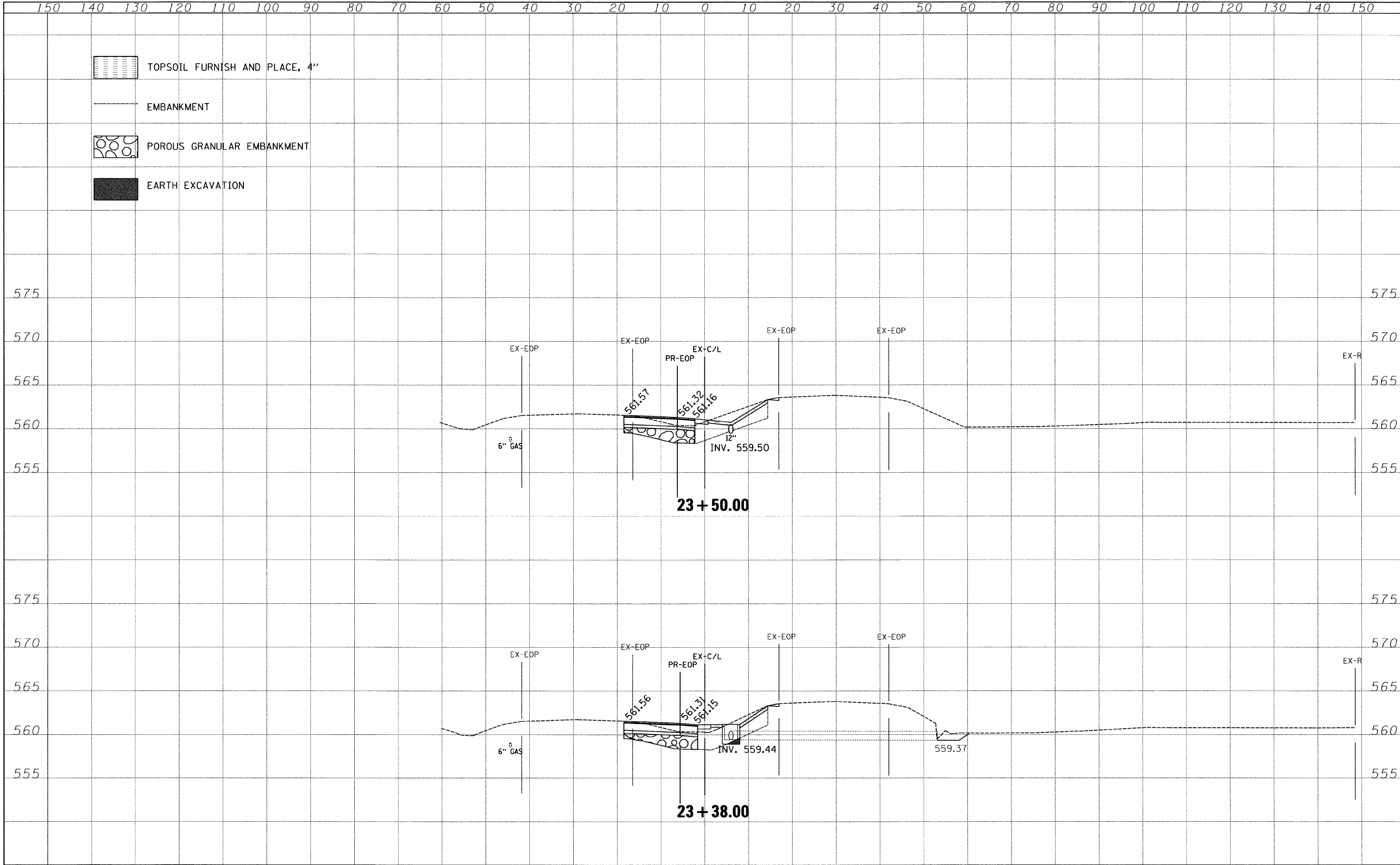
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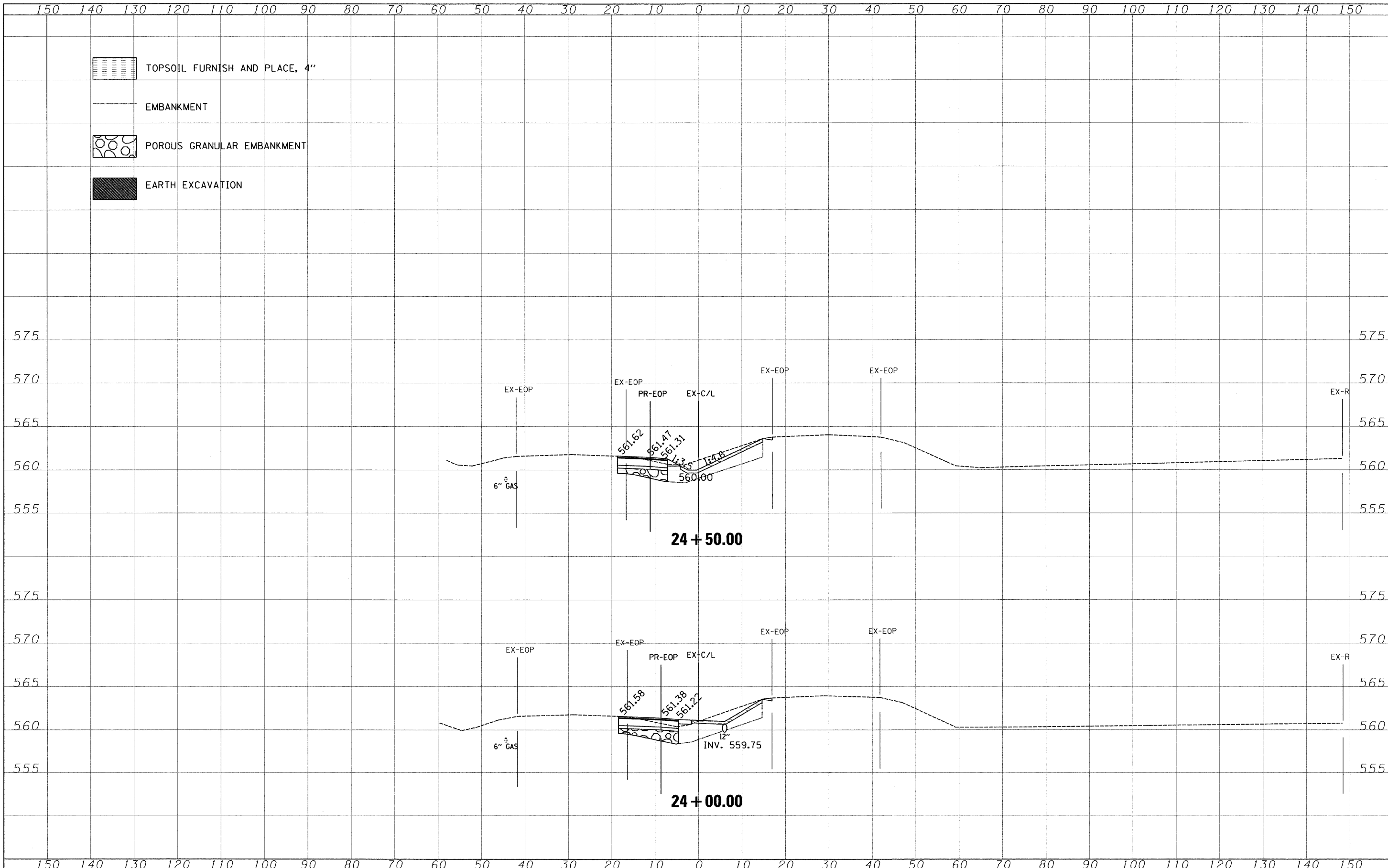
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		DATE - 03/04/2010	REVISED -									

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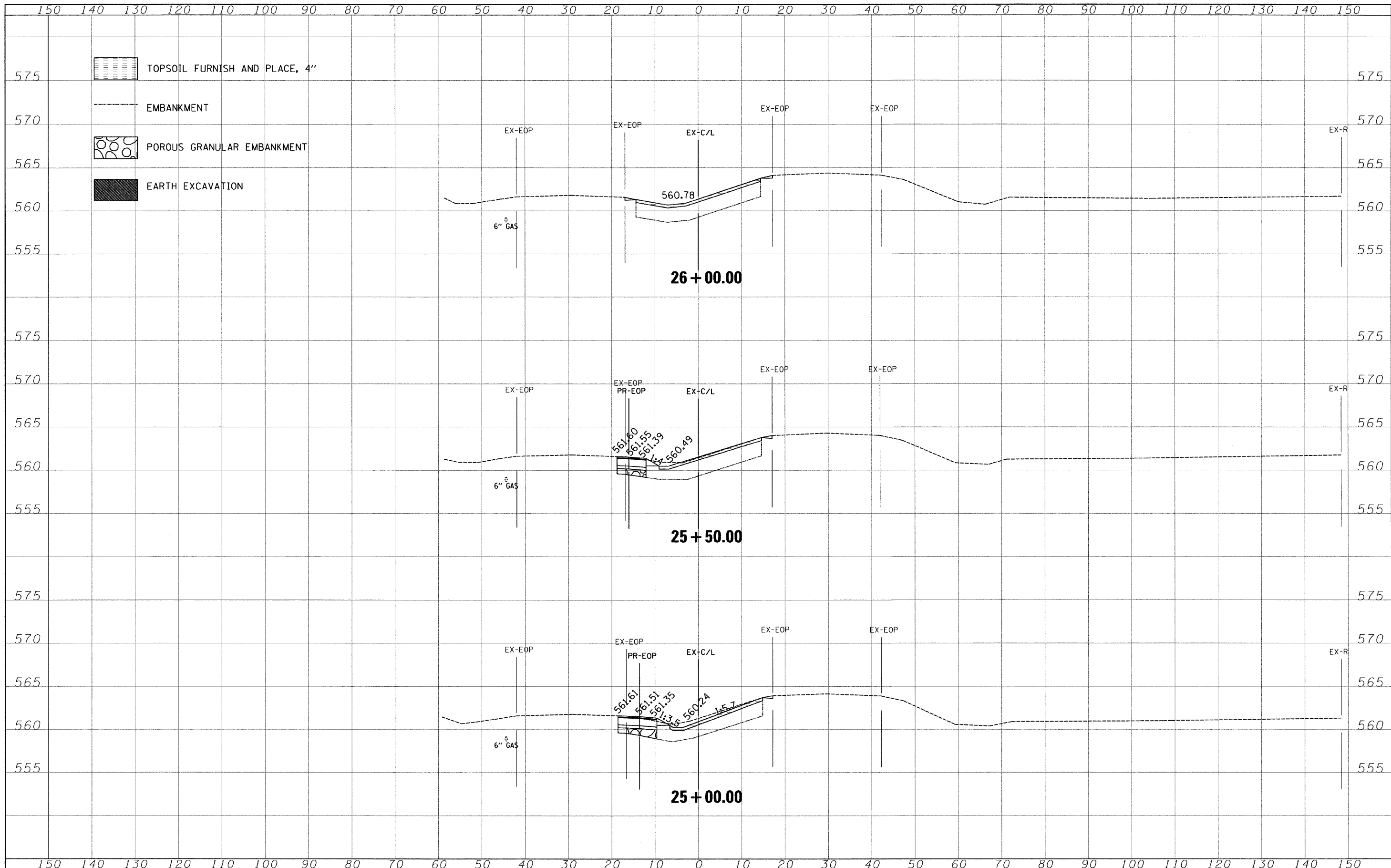
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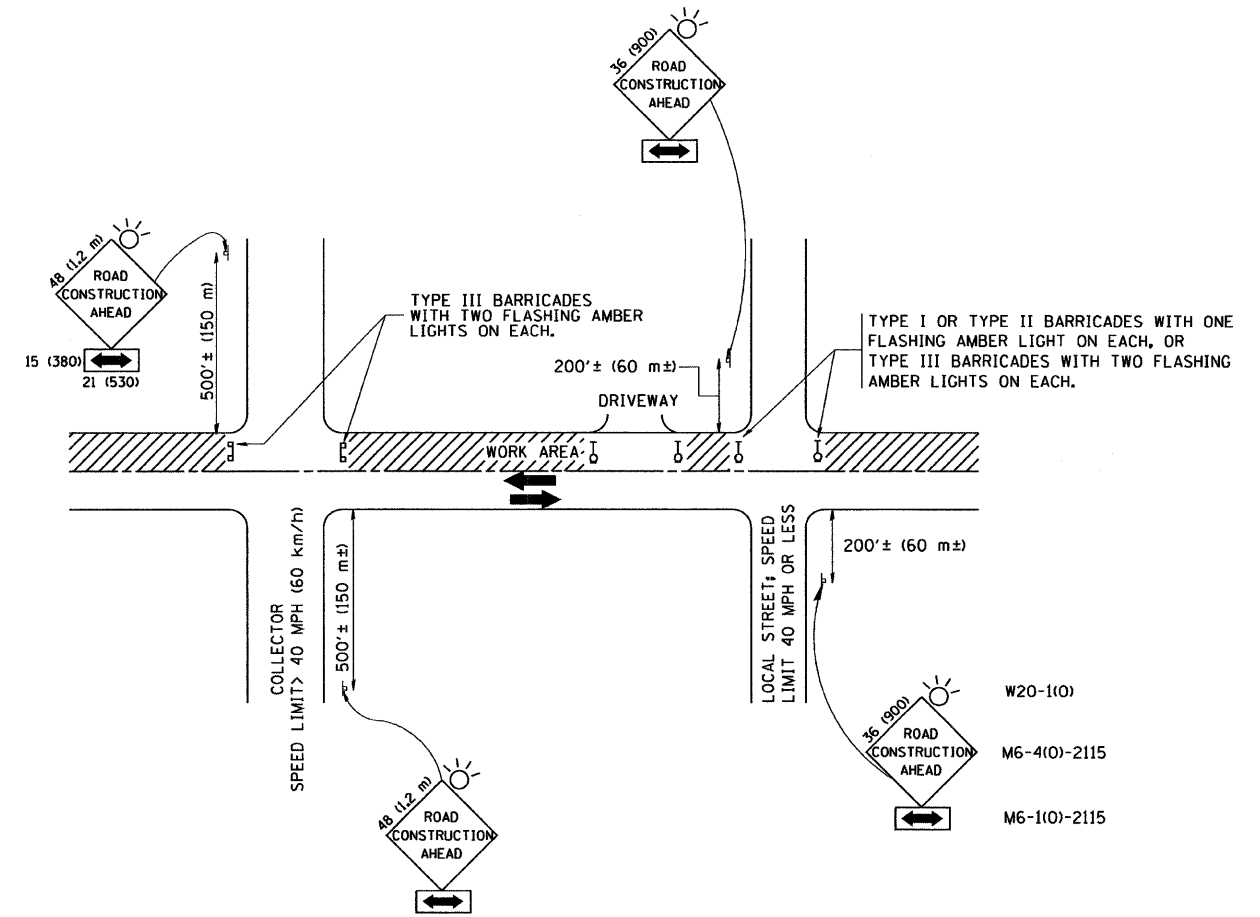
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		DATE - 03/04/2010	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET NO. 11 OF 11 SHEETS		STA. 25+00.00 TO STA. 26+00.00			



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

NOTES:

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

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

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

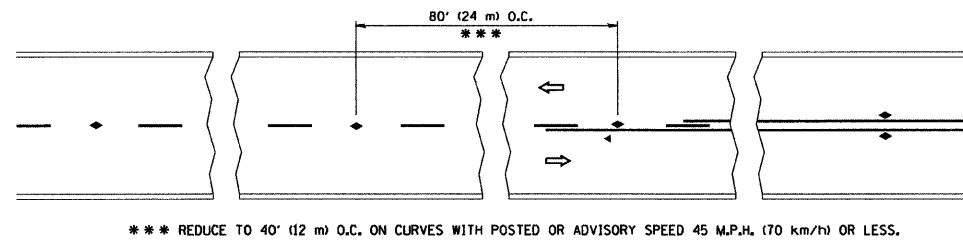
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

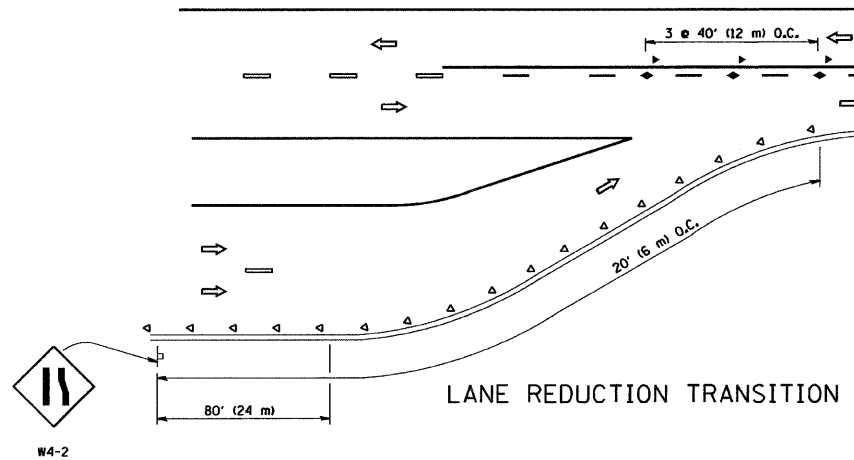
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SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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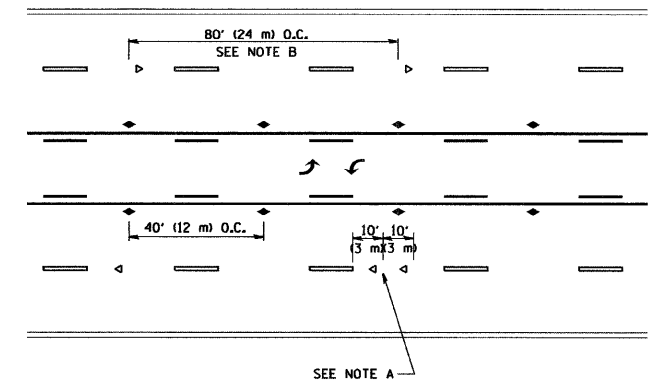
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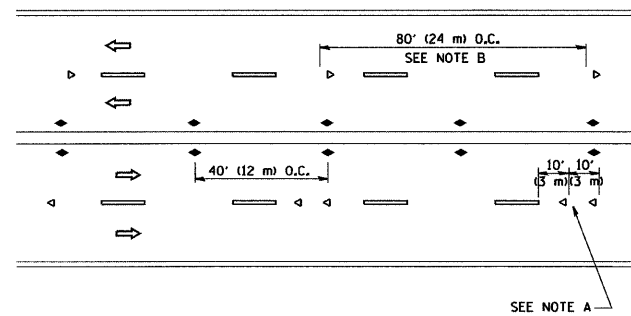
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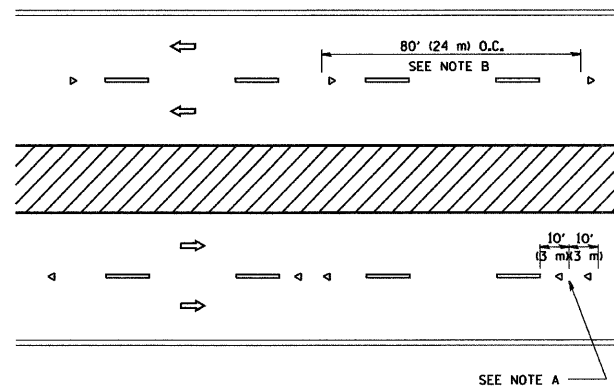
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

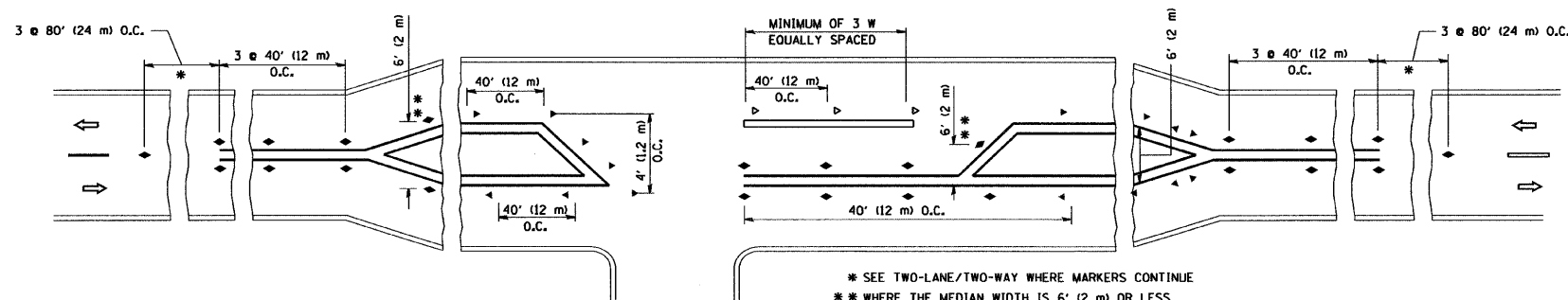
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

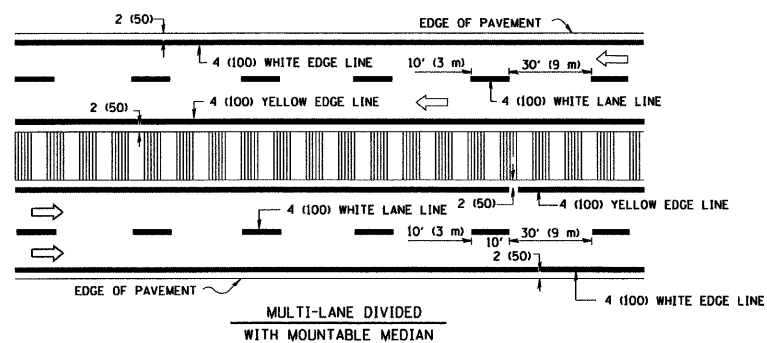
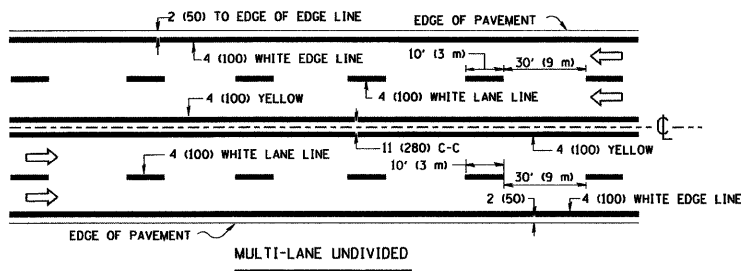
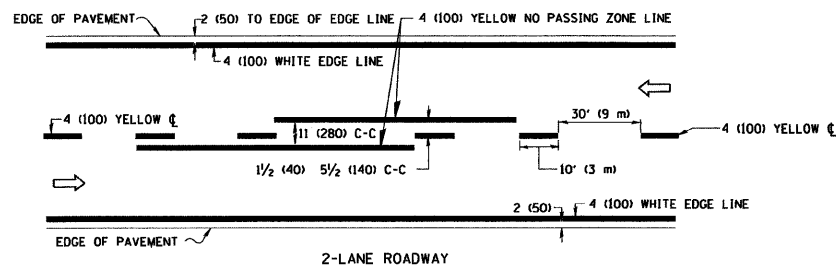
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



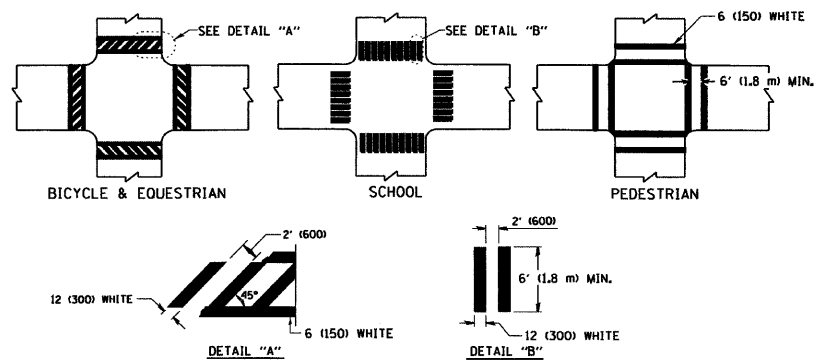
LEFT TURN

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

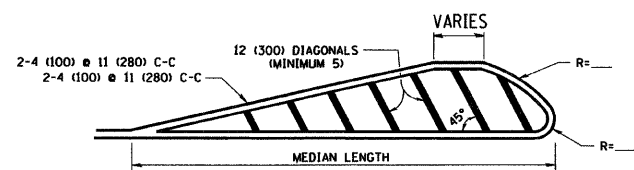
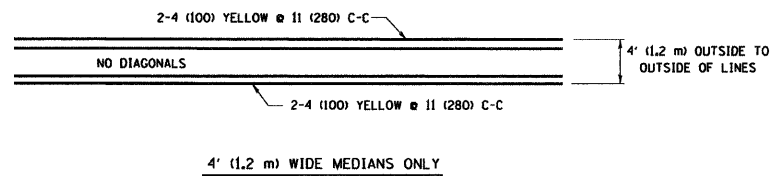
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	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 03-12-99		846	5N	WILL	26	22			
PLOT DATE = 1/4/2008	DATE -	REVISED - T. RAMMACHER 01-06-00	REVISED -		TC-11		CONTRACT NO. 60G46					
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



TYPICAL LANE AND EDGE LINE MARKING

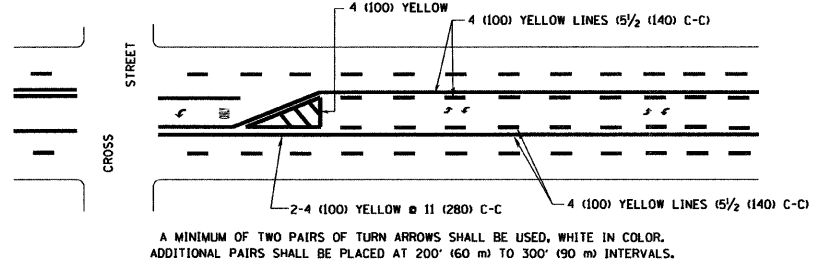


TYPICAL CROSSWALK MARKING

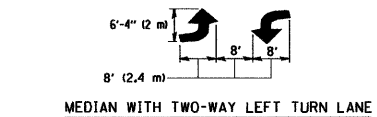


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

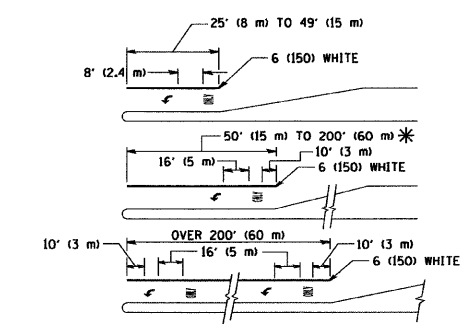
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

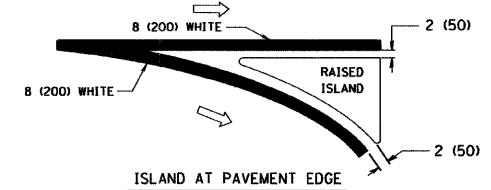
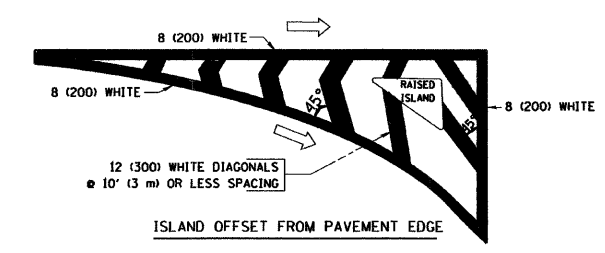


TYPICAL LEFT (OR RIGHT) TURN LANE



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

TYPICAL TURN LANE MARKING

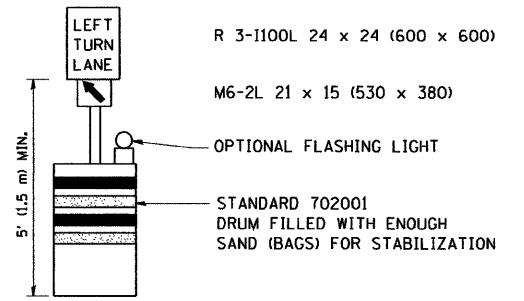
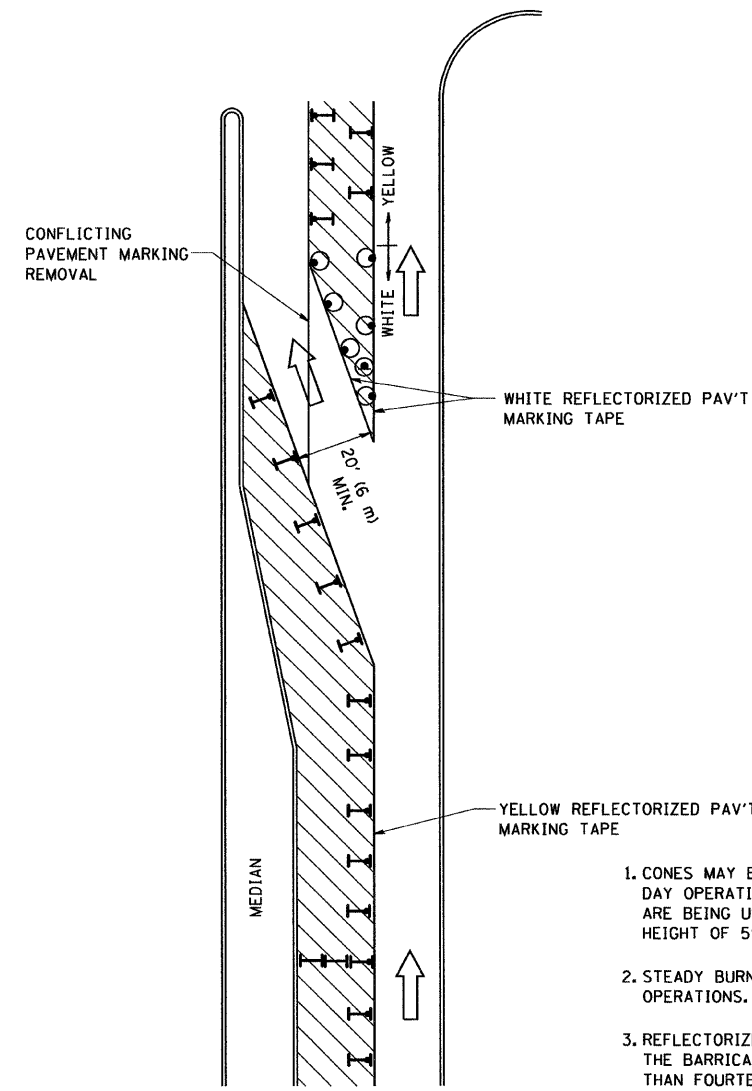


TYPICAL ISLAND MARKING

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

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

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



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

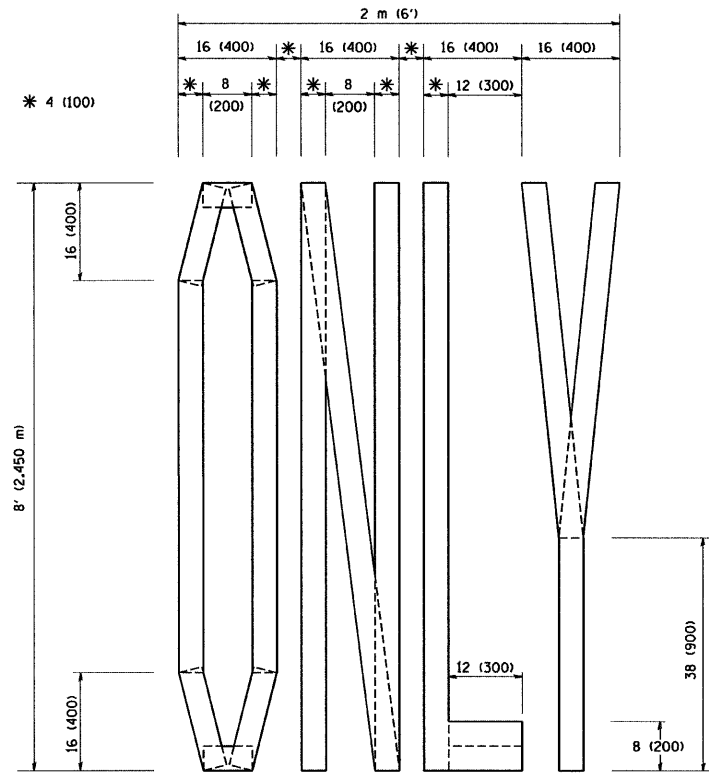
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	PLOT SCALE = 50,0000 1/ IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

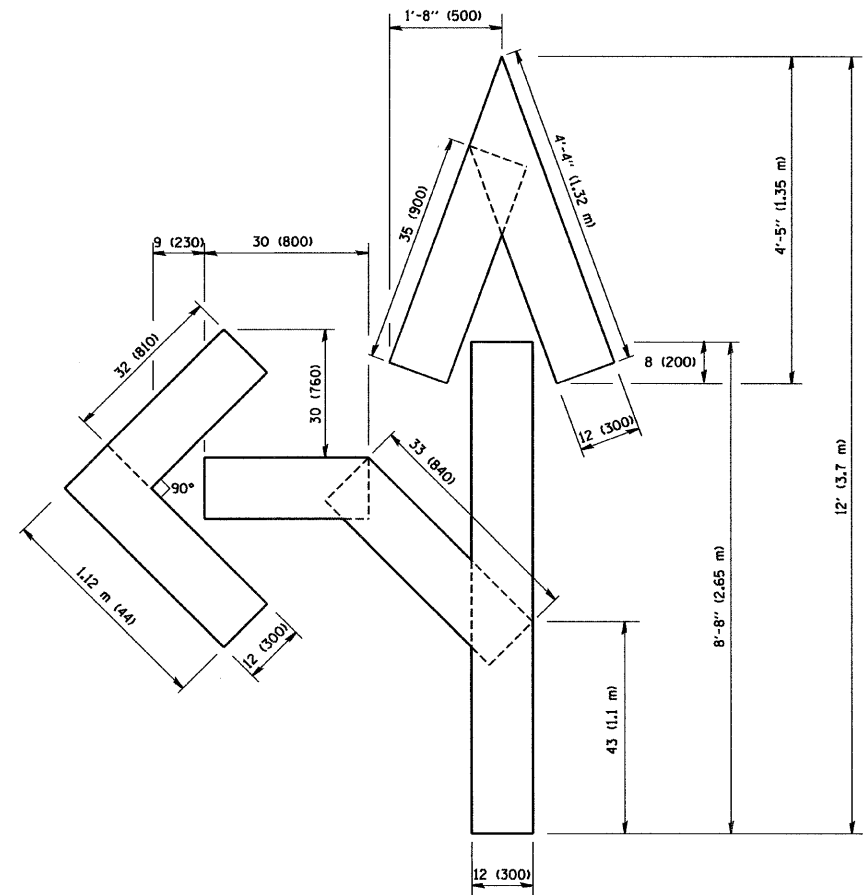
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

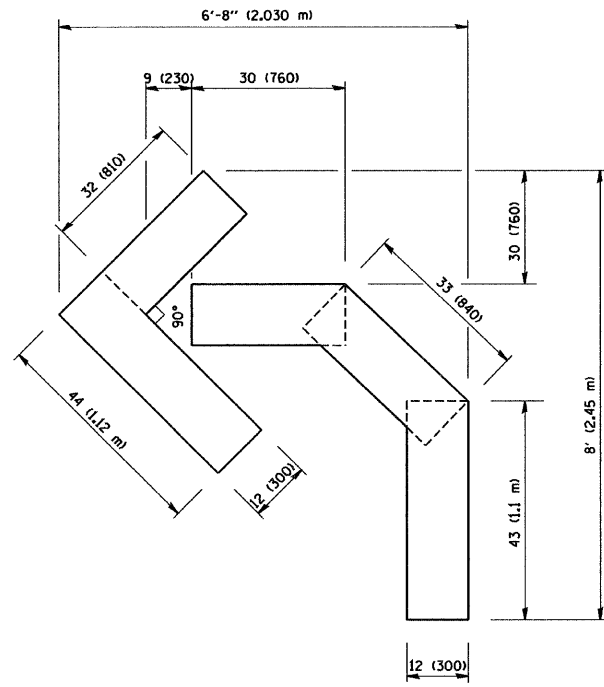
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	5N	WILL	26	24
TC-14			CONTRACT NO. 60G46	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

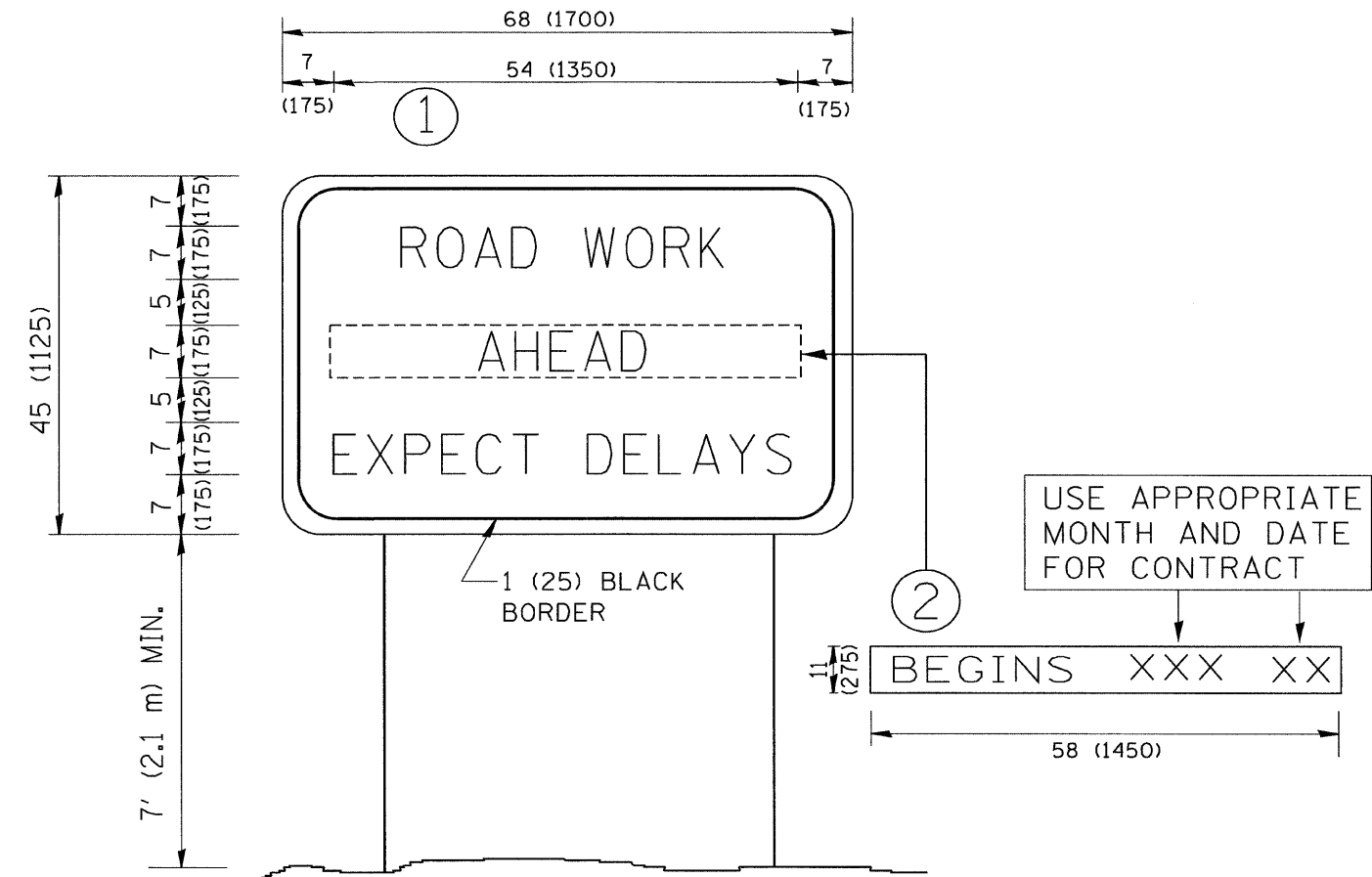
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		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	5N	WILL	26	25
TC-16			CONTRACT NO. 60G46	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME = W:\distatd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED - -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE. 846	SECTION 5N	COUNTY WILL	TOTAL SHEETS 26	SHEET NO. 26
	PLOT SCALE = 50,000' / IN.	DRAWN - -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	
	PLOT DATE = 1/4/2008	CHECKED - -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 60G46		
		DATE - -	REVISED - C. JUCIUS 01-31-07									