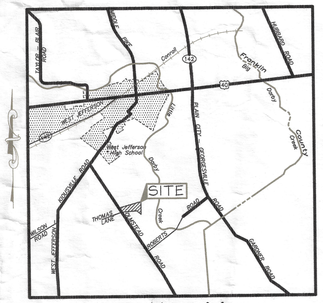
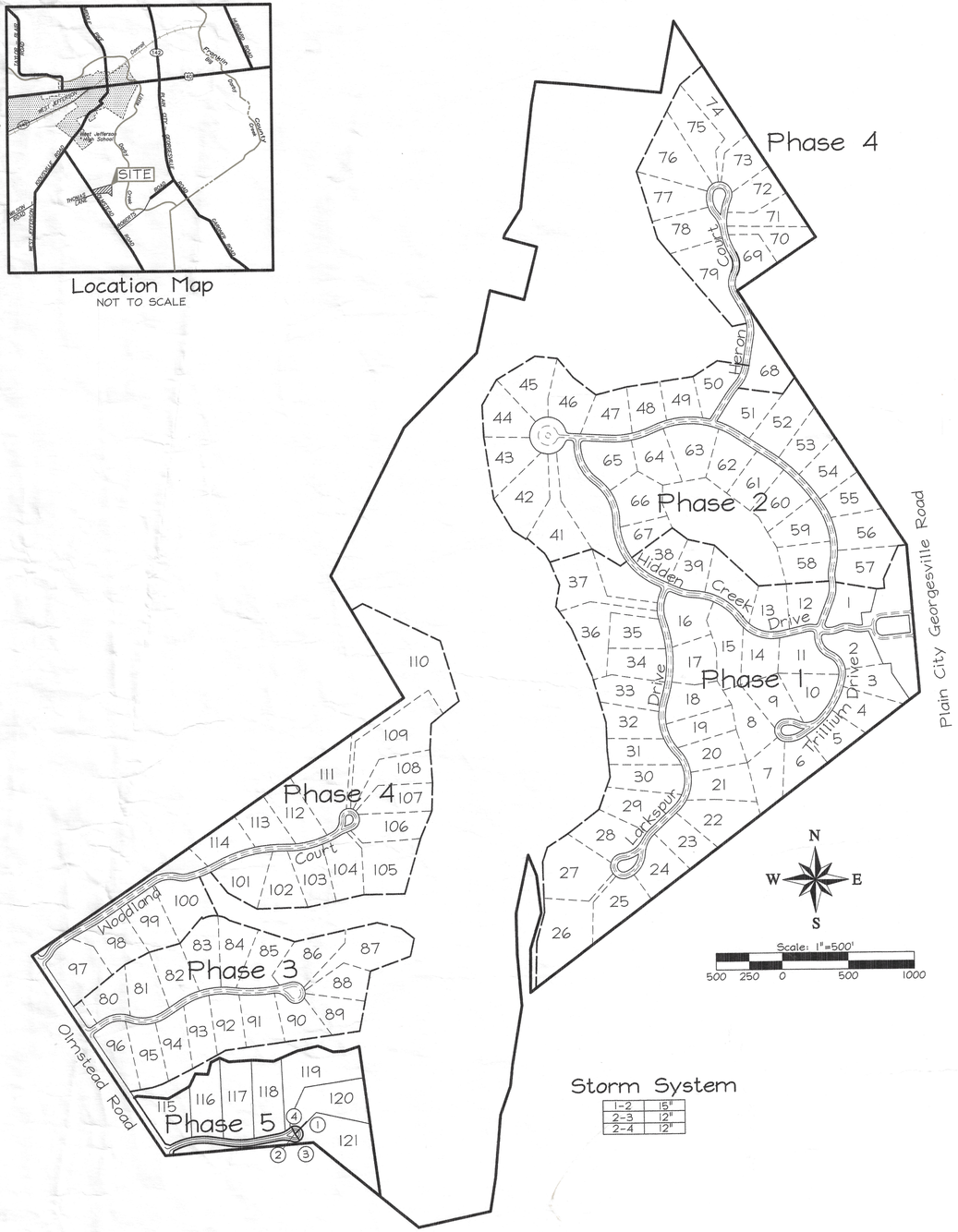


Location Map
NOT TO SCALE



Storm System

1-2	15"
2-3	12"
2-4	12"

MADISON COUNTY, OHIO

ROAD IMPROVEMENTS

FOR

HIDDEN CREEK AT THE DARBY

PHASE 5

2007

Standard Drawings

OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF.

DRAWING NUMBER	DATE
CB-1.1	07-15-2005
HW-2.1	04-21-2006
DM-1.4	04-21-2006

Bench Marks

BM No.1
CHISELED SQUARE IN TOP OF CONCRETE WALL AT SOUTHWEST CORNER OF EXISTING AERATION TANK AT SEWERAGE TREATMENT PLANT (1929 DATUM)
ELEVATION = 892.27

BM No. 2
TOP REBAR SET 800 FEET SOUTHWEST OF TREATMENT PLANT IN NORTHERLY LINE OF SUBDIVISION.
ELEVATION = 915.54

BM "A"
R.R. SPIKE IN POWER POLE AT EAST SIDE OF PLAIN CITY - GEORGESVILLE ROAD OPPOSITE PHASE 1 ENTRANCE.
ELEVATION = 925.61

Index

1	TITLE SHEET
2	GENERAL NOTES & QUANTITIES
3	TYPICAL SECTIONS & DETAILS
4	STREET PLAN & PROFILE
5	OVERLOT GRADING PLAN
6	CROSS SECTIONS
7	CROSS SECTIONS
8	CROSS SECTIONS & DETAILS
9	EROSION CONTROL DETAILS

Approved By:

MADISON COUNTY ENGINEER _____ DATE _____

REGIONAL PLANNING COMMISSION _____ DATE _____

MADISON COUNTY SOIL & WATER CONSERVATION DISTRICT _____ DATE _____

MADISON COUNTY ZONING INSPECTOR _____ DATE _____

MADISON COUNTY BOARD OF HEALTH _____ DATE _____

CIVIL DESIGN ENGINEERING, INC. _____ DATE _____

Kaden Ct.

CDE
Civil Design Engineering, Inc.
6813 Heyhurst Street
Worthington, Ohio 43085
614-431-5803 Fax: 614-431-5804

HIDDEN CREEK AT THE DARBY
Phase 5
Madison County, Ohio

Approval/Title Sheet

ISSUED:	
Preliminary	02-21-2007
	.
	.
Construction	.
	.
As Built	.

Estimate of Quantities

Item	Quant.	Unit	Description
			DRAINAGE
601	1.8	CY	ROCK CHANNEL PROTECTION TYPE C W/FILTER
603	116	LF	12" CONDUIT, TYPE C
603	127	LF	15" CONDUIT, TYPE C
604	1	EA	ENDWALL, 15" PIPE, HW-2.1
604	3	EA	CATCH BASIN CB 2-2B
			ROADWAY
203	1	HR	PROOF ROLLING
203	2550	SY	SUBGRADE COMPACTION
203	3223	CY	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION
301	414	CY	BITUMINOUS AGGREGATE BASE
304	283	CY	AGGREGATE BASE
402	98	CY	ASPHALT CONCRETE, AC-20
404	95	CY	ASPHALT CONCRETE, AC-20
605	2371	LF	4" PIPE UNDERDRAIN
605	2260	LF	6" PIPE UNDERDRAIN
659	10,800	SY	SEEDING & MULTCHING (URBAN MIX)
659	0.21	TON	COMMERICAL FERTILIZER
659	2.6	M GAL	WATER
			ROADWAY CONTINGENCY ITEMS
203	300	CY	EXCAVATION, NOT INCLUDING EMBANKMENT CONST
SPECIAL	200	CY	NO. 2 AGGREGATE, 703.01
304	100	CY	AGGREGATE BASE
			EROSION CONTROL
207	3	EA	INLET SEDIMENT FILTERS
207	10,800	SY	TEMPORARY SEEDING AND MULCHING
207	130	EA	STRAW OR HAY BALES
207	LS	LF	SEDIMENT FILTER FABRIC FENCE
			TREE PROTECTION
SPECIAL	LS	LF	TREE PROTECTION FENCE

ESTIMATES ONLY. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND SHALL NOT RELY ON QUANTITIES LISTED OR NOT LISTED HEREON.

GENERAL NOTES

THE CURRENT MADISON COUNTY AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS INCLUDING ALL SUPPLEMENTS THERETO, TOGETHER WITH THE REQUIREMENTS OF MADISON COUNTY IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS, METHODS OF CONSTRUCTION, AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

THE CONTRACTOR SHALL NOTIFY MADISON COUNTY ENGINEER 24 HOURS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF MARKERS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR.

THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION, AS DIRECTED BY THE OWNER.

THE DESIGN ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE DESIGN ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE JOB SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS", COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE MADISON COUNTY AND/OR ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITIES WHETHER SHOWN ON THE PLANS OR NOT.

SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (TELEPHONE 800-362-2764 - TOLL FREE) AND TO THE OWNERS OF UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO WORKING DAYS PRIOR TO START OF CONSTRUCTION.

UNLESS OTHERWISE NOTED ON THE PLANS ALL STORM SEWERS SHALL BE SMOOTH WALLED ADS N-12 PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS INCORPORATED. THIS ALSO INCLUDES ANY AND ALL UNDERDRAIN PIPES FOR THE ROADWAY/LEACHFIELD SYSTEMS INSTALLED FOR THE PROJECT. GRANULAR BACKFILL SHALL BE USED IN ALL INSTANCES OF PAVEMENT CROSSINGS. MATERIALS SHALL BE COMPACTED GRANULAR MATERIAL, ITEM 310 TYPE A GRADING (NO GRITS ALLOWED), PLACED WITHIN LIMITS SHOWN ON THE PLAN INCLUDING AROUND ALL INLET STRUCTURES. GRANULAR BACKFILL SHALL EXTEND FROM THE BOTTOM OF THE TRENCH TO A PLANE 6-INCHES BELOW THE SUBGRADE.

WHERE THE STORM SEWER CROSSES A PROPOSED RIGHT-OF-WAY THE TRENCH BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL, ITEM 310 TYPE A GRADING (NO GRITS ALLOWED), FROM THE BOTTOM OF THE TRENCH TO A PLANE 6-INCHES BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL BE FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE. ALL OTHER TRENCH BACKFILL SHALL BE COMPACTED TYPE C, UNLESS OTHERWISE NOTED ON THE PLANS. COST OF BACKFILL TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

PIPE WITH LESS THAN ONE FOOT OF COVER TO SURFACE OF PAVEMENT SHALL BE REINFORCED CONCRETE PIPE, CLASS V, OR SHALL BE CONCRETE ENCASED.

CONTRACTOR SHALL MAKE PROVISIONS FOR OUTLETTING ROADWAY UNDERDRAINS. THESE SHALL INCLUDE, WHERE APPLICABLE, CROSSING OF STREETS, CONNECTIONS TO HEADWALLS, AND OUTLETTING INTO DITCHES PER UNDERDRAIN OUTLET DETAIL.

UTILITIES

THE CONTRACTOR SHALL PROVIDE 4" PVC CASING PIPE FOR THE PURPOSE OF GAS LINE CROSSINGS WHERE NOTED ON THE PLAN PRIOR TO PLACEMENT OF ASPHALT PAVEMENT. VERIFY REQUIRED DEPTH BASED ON STORM PIPE CLEARANCES PROVIDING 1' FROM THE BOTTOM OF THE PIPE AS WELL AS MATERIAL SPECIFICATION PRIO TO INSTALLATION.

CDE
Civil Design Engineering, Inc.
6815 Hochheimer Street
Worthington, Ohio 43085
614-431-5803 Fax: 614-431-5804

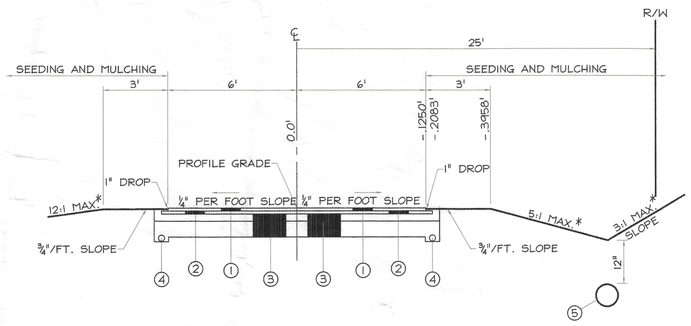
HIDDEN CREEK AT THE DARBY

Phase 5

Madison County, Ohio

General Notes & Quantities

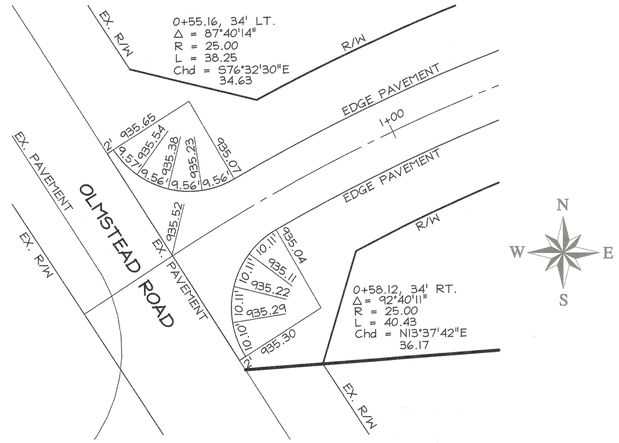
ISSUED:	
Preliminary	02-21-2007
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Permit	.
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Construction	.



CUL-DE-SAC PAVEMENT SECTION

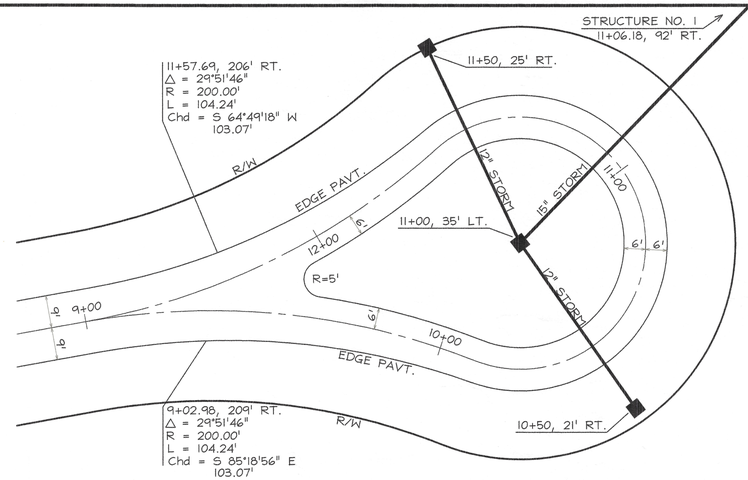
NOT TO SCALE
10+10.15 TO 11+58.80

* SEE CROSS SECTIONS SHEETS 7 & 8



PAVEMENT DETAILS

SCALE: 1" = 10'



CUL-DE-SAC DETAILS

SCALE: 1" = 20'

LEGEND:

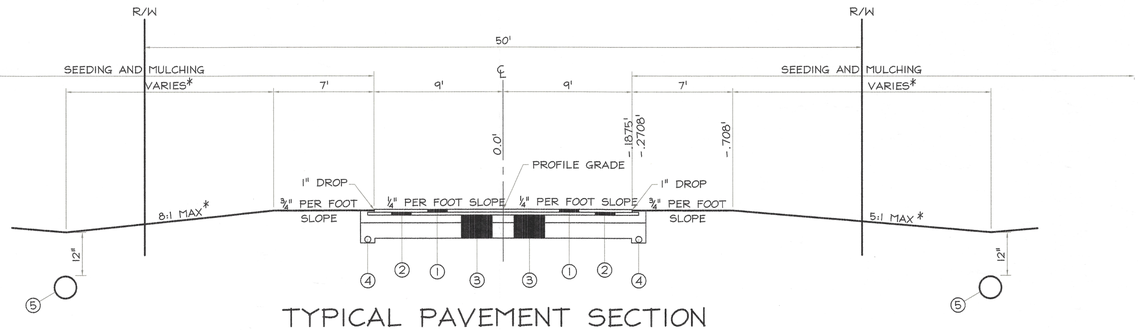
① 1½" ITEM 404 ASPHALTIC CONCRETE

② 1½" ITEM 402 ASPHALTIC CONCRETE

③ 6" ITEM 301 BITUMINOUS AGGREGATE BASE IN 2 LIFTS
4" ITEM 304 AGGREGATE BASE

④ SEE PAVEMENT UNDERDRAIN DETAIL TIE INTO CATCH BASINS

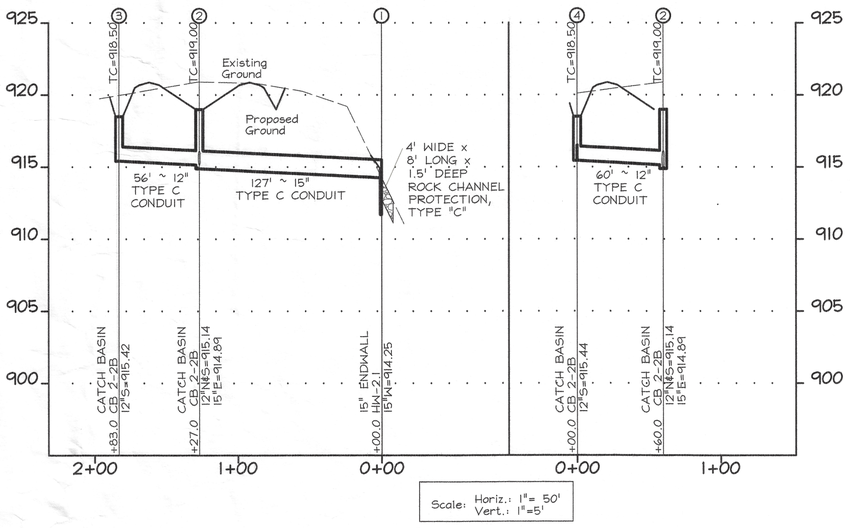
⑤ ITEM 605 - 6" PIPE UNDERDRAIN TIE INTO CATCH BASINS



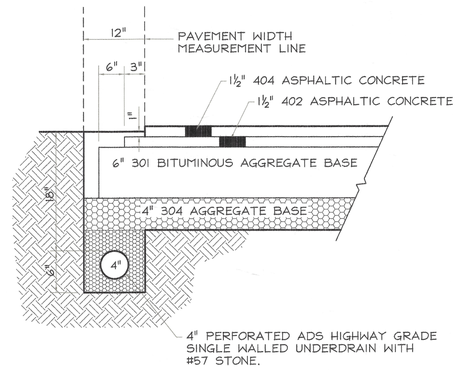
TYPICAL PAVEMENT SECTION

NOT TO SCALE
0+29.53 TO 8+99.59

* SEE CROSS SECTIONS SHEETS 6 THRU 8



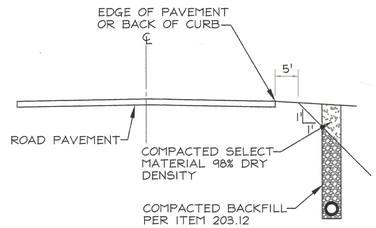
STORM SEWER PROFILES



PAVEMENT UNDERDRAIN DETAIL

NOT TO SCALE

1 beam
3' by mound on South side. 9/25 KK



BACKFILLING WITHIN THE LINE OF INFLUENCE

NOT TO SCALE

CDE
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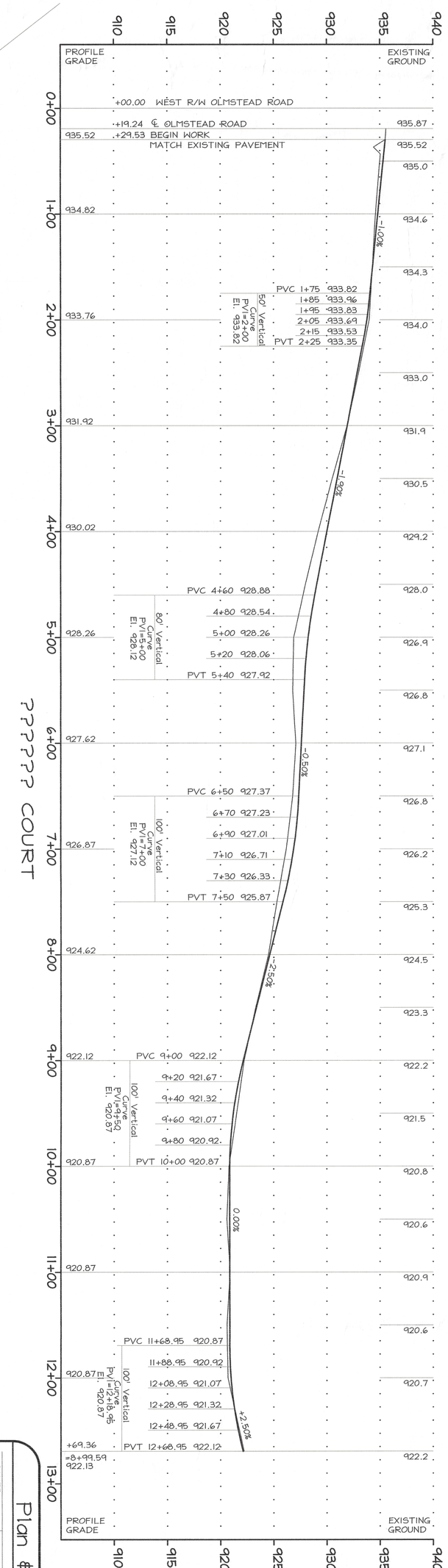
HIDDEN CREEK AT THE DARBY

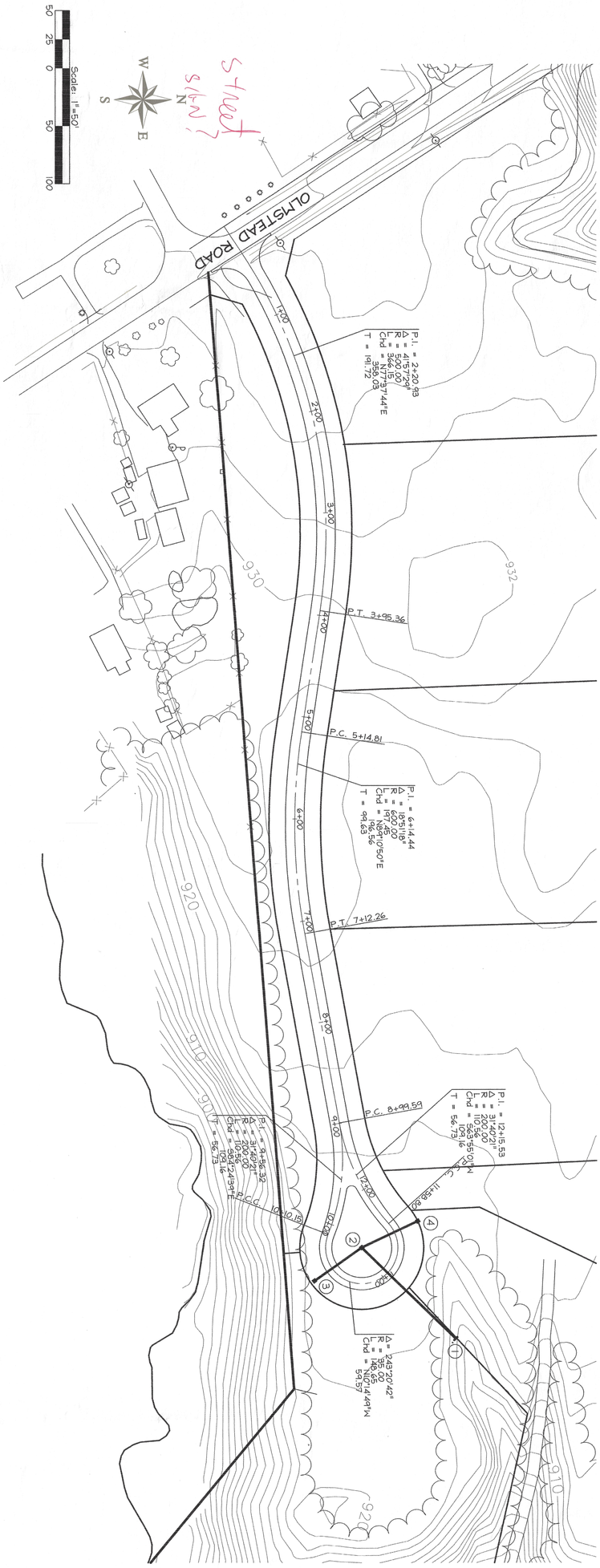
Phase 5

Madison County, Ohio

Typical Sections & Details

ISSUED:	
Preliminary	02-21-2007
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Permit	.
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Construction	.





HIDDEN CREEK AT THE DARBY

Phase 5

Madison County, Ohio

CDE

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6813 Hayhurst Street

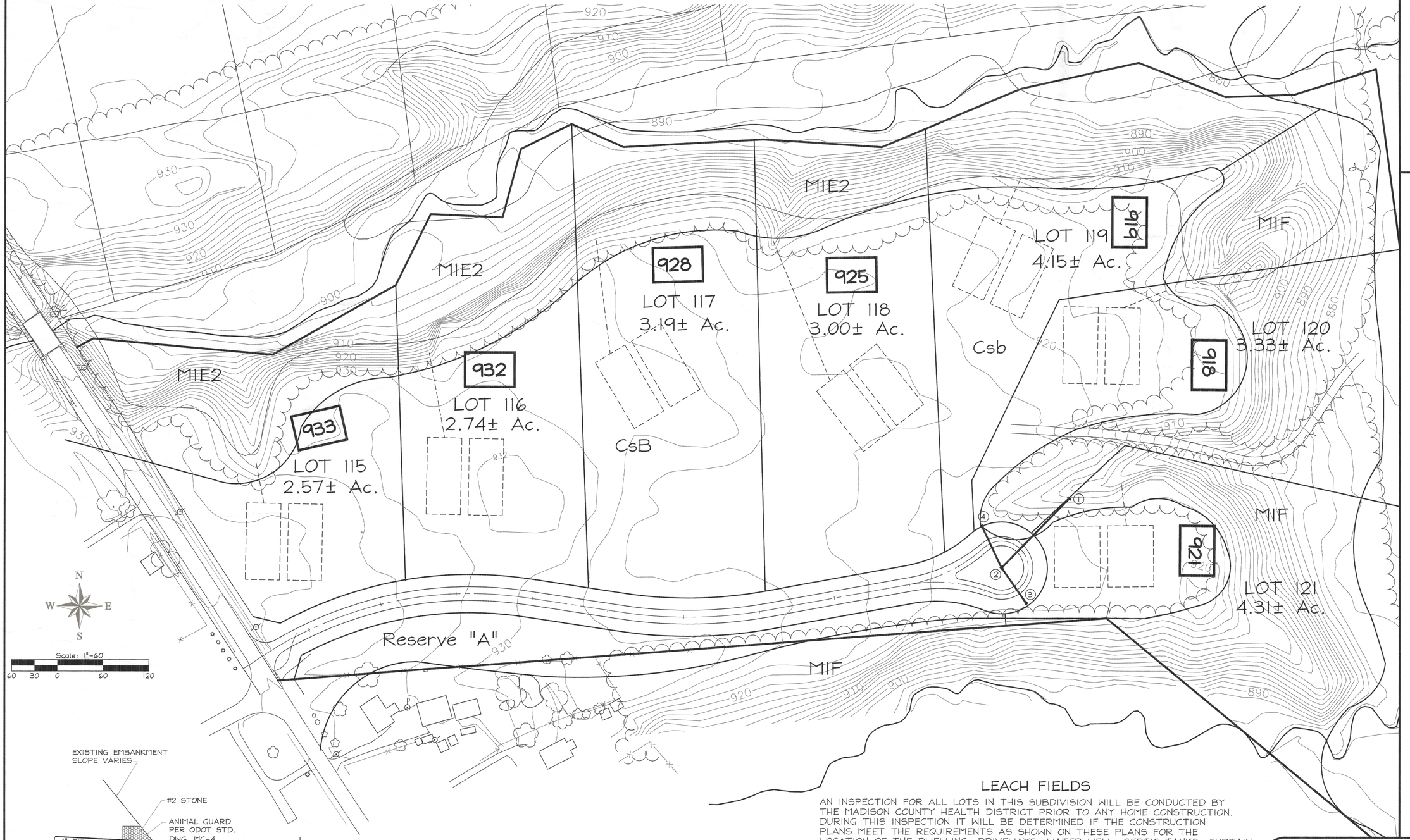
Worthington, Ohio 43085

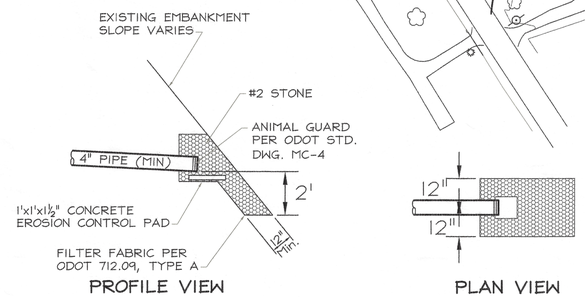
614-431-5803 Fax: 614-431-5804

Plan & Profile

ISSUED:	
Preliminary	02-21-2007
Permit	
Construction	

4 of 9





Underdrain/Perimeter Drain Outlet Detail

LEACH FIELDS

AN INSPECTION FOR ALL LOTS IN THIS SUBDIVISION WILL BE CONDUCTED BY THE MADISON COUNTY HEALTH DISTRICT PRIOR TO ANY HOME CONSTRUCTION. DURING THIS INSPECTION IT WILL BE DETERMINED IF THE CONSTRUCTION PLANS MEET THE REQUIREMENTS AS SHOWN ON THESE PLANS FOR THE LOCATION OF THE DWELLING, DRIVEWAYS, WATER WELL, SEPTIC TANKS, CURTAIN DRAINS AND PRIMARY AND SECONDARY LEACH TRENCH SYSTEMS. NO PERMANENT STRUCTURES OF ANY KIND SHALL BE PERMITTED IN THE AREA DESIGNATED ON THESE PLANS FOR PRIMARY OR SECONDARY LEACH SYSTEMS. ALL PLANS MUST BE SUBMITTED TO THE MADISON COUNTY HEALTH DISTRICT FOR REVIEW AND APPROVAL AND A SITE VISIT MUST BE SCHEDULED PRIOR TO THE BEGINNING OF ANY HOME CONSTRUCTION.

ON SITE SANITARY SYSTEMS INCLUDING UNDERDRAINS ARE NOT A PART OF THIS PROJECT UNLESS OTHERWISE NOTED. THESE SYSTEMS WILL BE CONSTRUCTED BY THE HOMEOWNER.

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Worthington, Ohio 43085
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HIDDEN CREEK AT THE DARBY

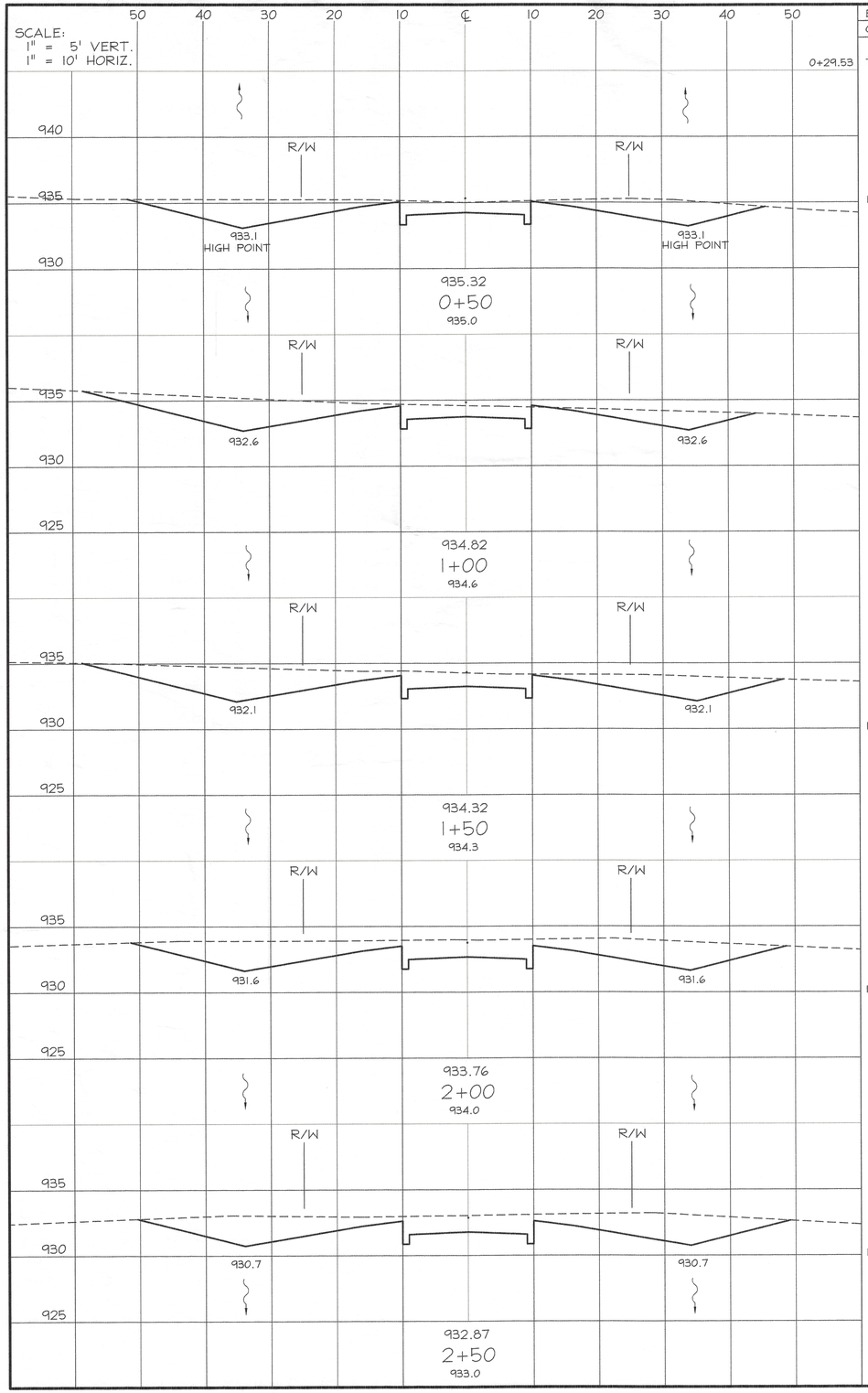
Phase 5

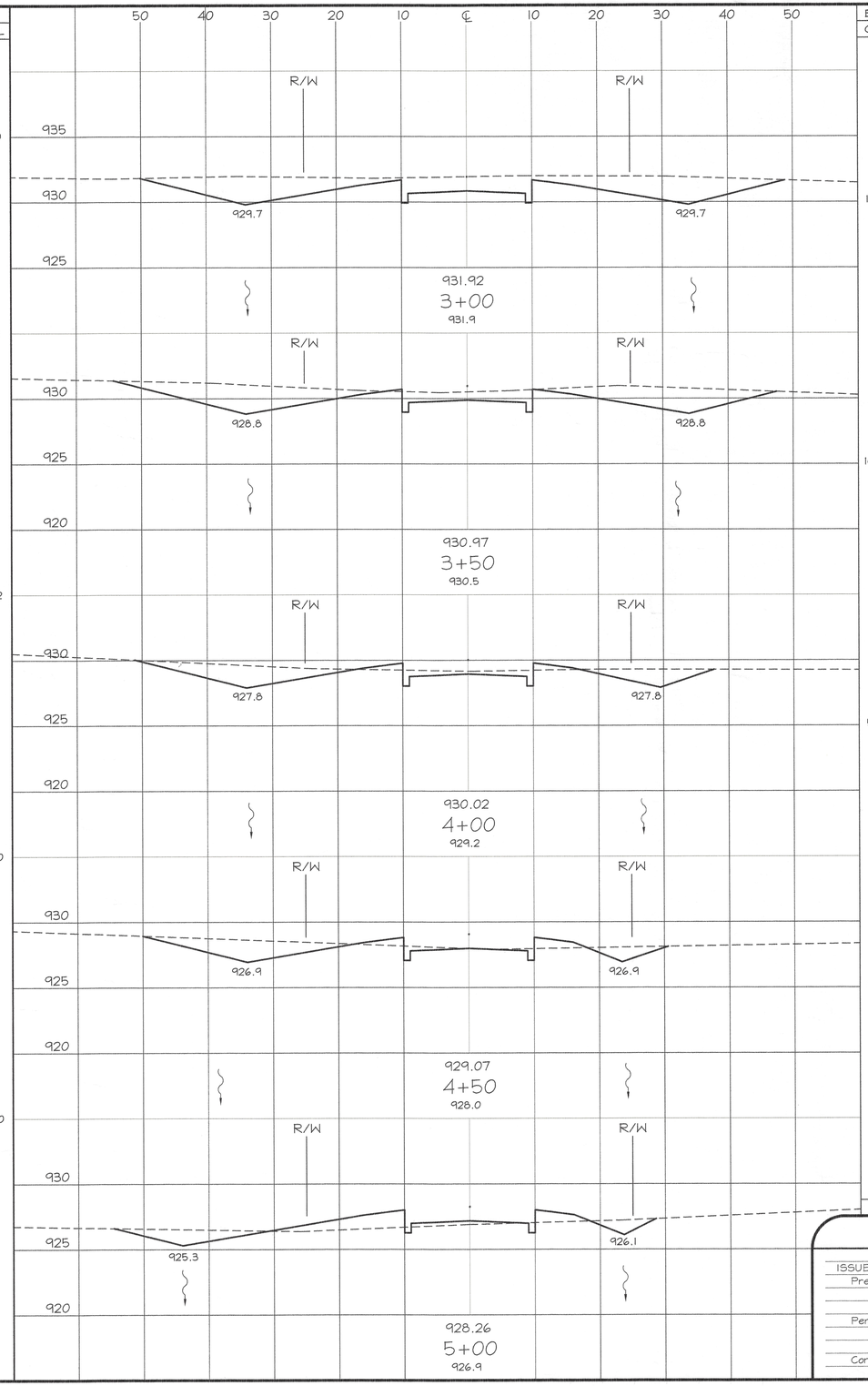
Madison County, Ohio

Master Grading Plan

ISSUED:	
Preliminary	02-21-2007
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Permit	.
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Construction	.

SCALE:
1" = 5' VERT.
1" = 10' HORIZ.





	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
0+29.53	73.7	0.0		
			66.2	0.0
	101.0	0.0		
			187.7	0.2
	101.7	0.2		
			212.0	0.2
	127.3	0.0		
			237.8	0.0
	129.5	0.0		
			239.0	0.0
	129.6	0.0		
	112.8	0.0		
	100.4	0.2		
	51.5	3.9		
	38.4	6.9		
	21.5	24.6		
TOTAL	1644	44		

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	224.4	0.0		
			197.4	0.2
	140.6	3.8		
			83.2	10.0
			55.5	29.2

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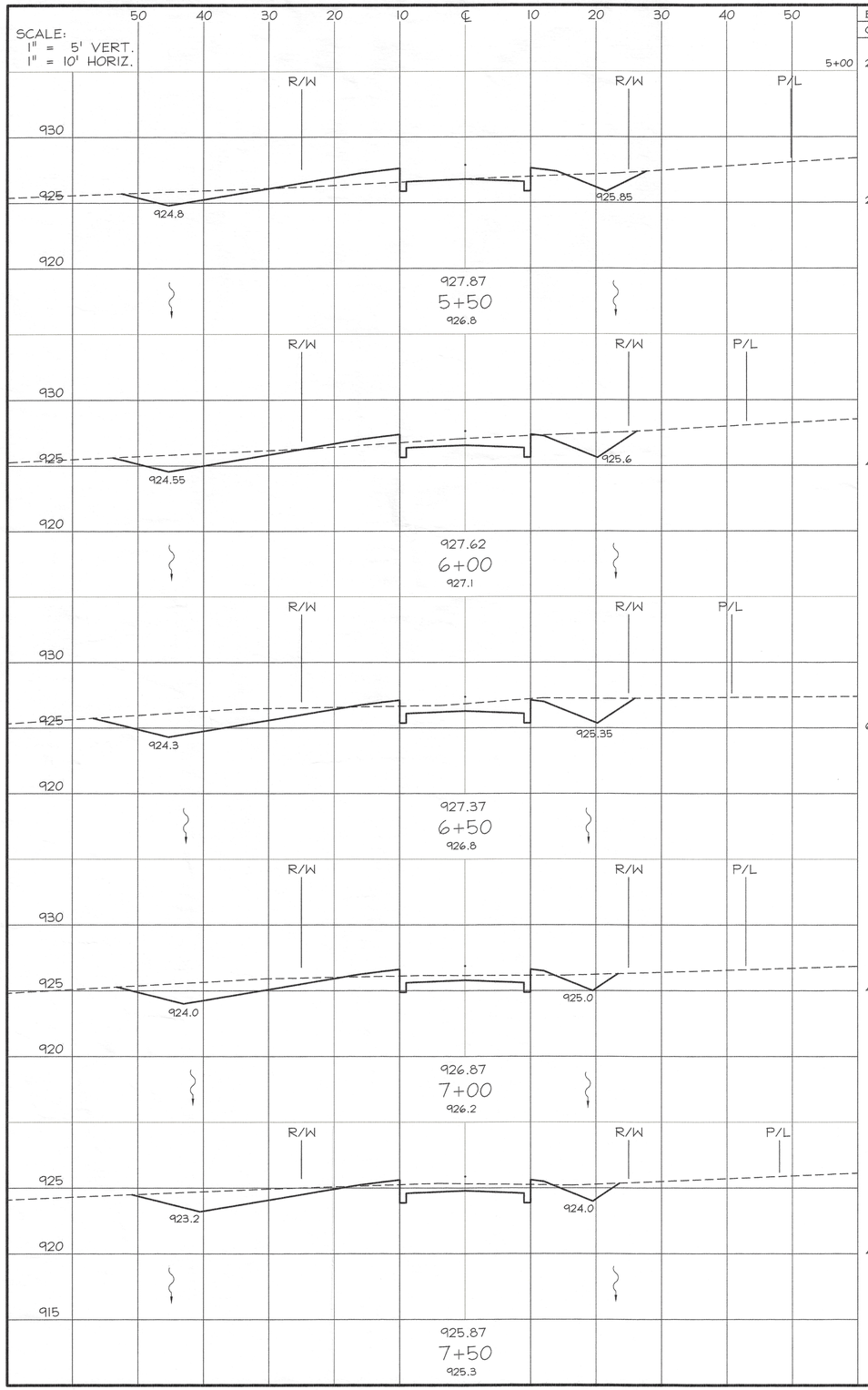
Phase 5

Madison County, Ohio

Cross Sections

ISSUED:	
Preliminary	02-21-2007
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Permit	.
	.
	.
Construction	.

SCALE:
1" = 5' VERT.
1" = 10' HORIZ.



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
5+00	21.5	24.6		
	23.4	13.7	41.6	35.5
	45.3	5.4	63.6	17.7
	67.3	2.0	104.3	6.9
	45.1	3.5	104.1	5.1
	45.9	2.3	84.3	5.6
	72.0	0.0	109.2	2.1
	90.8	0.0	150.7	0.0
			163.1	0.0
BACK	85.4	0.0		
FORWARD	32.3	0.0	72.2	0.0
	45.7	0.0		
	40.8	0.0	80.1	0.0
TOTAL	973	73		

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HIDDEN CREEK AT THE DARBY

Phase 5

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Cross Sections

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