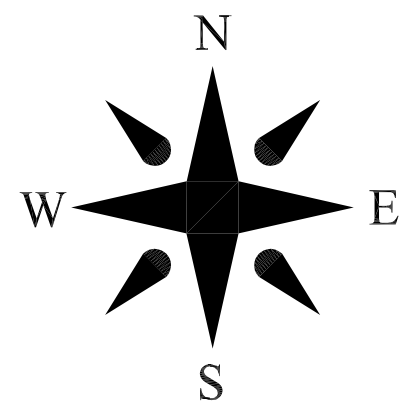
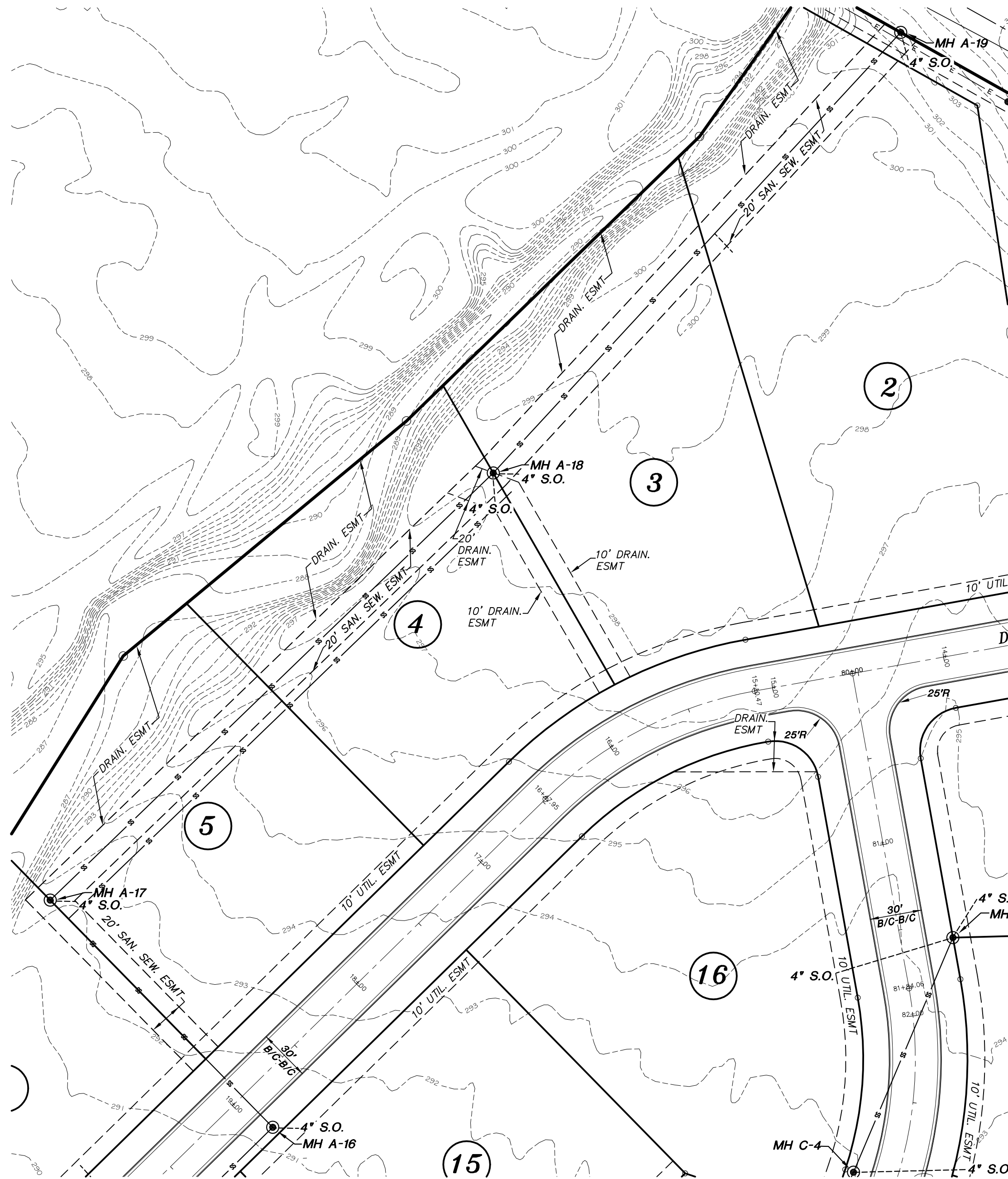
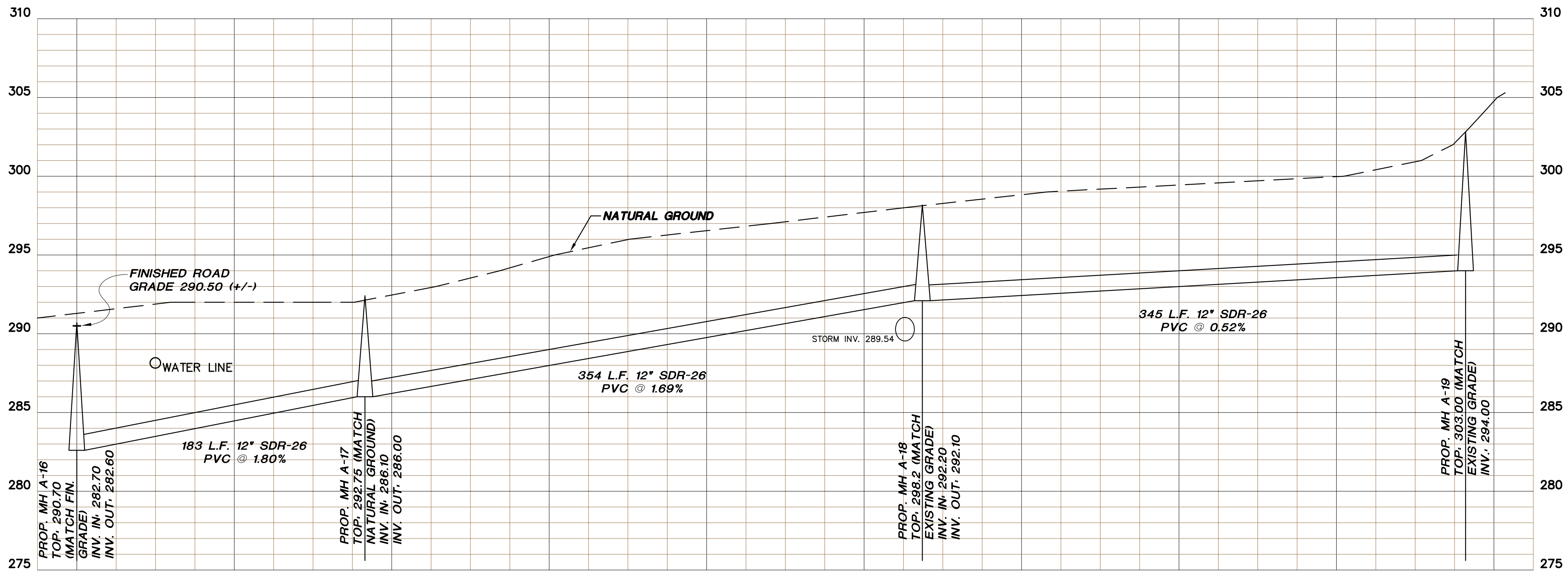




**PLAN VIEW - MH A-16
to MH A-19**

Scale 1"=50 ft.



**PROFILE - MH A-16
to MH A-19**

Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.

ENGINEERS	PLANNERS	SURVEYORS	Date	02-28-17	Scale	1"=50'	Job No.	117032	Sheet No.	11 of 21
			Section	12	Township	13N	Range	03E	County	CRAIGHEAD
			Drawn By:	RE	Checked by:	GH				
			ONLY COPIES WITH VIOLET COLOR SIGNATURE ARE ORIGINAL UTILICOPY COPIES							
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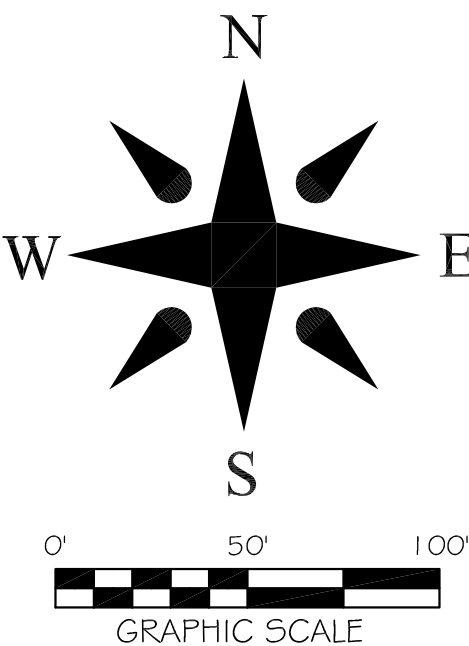
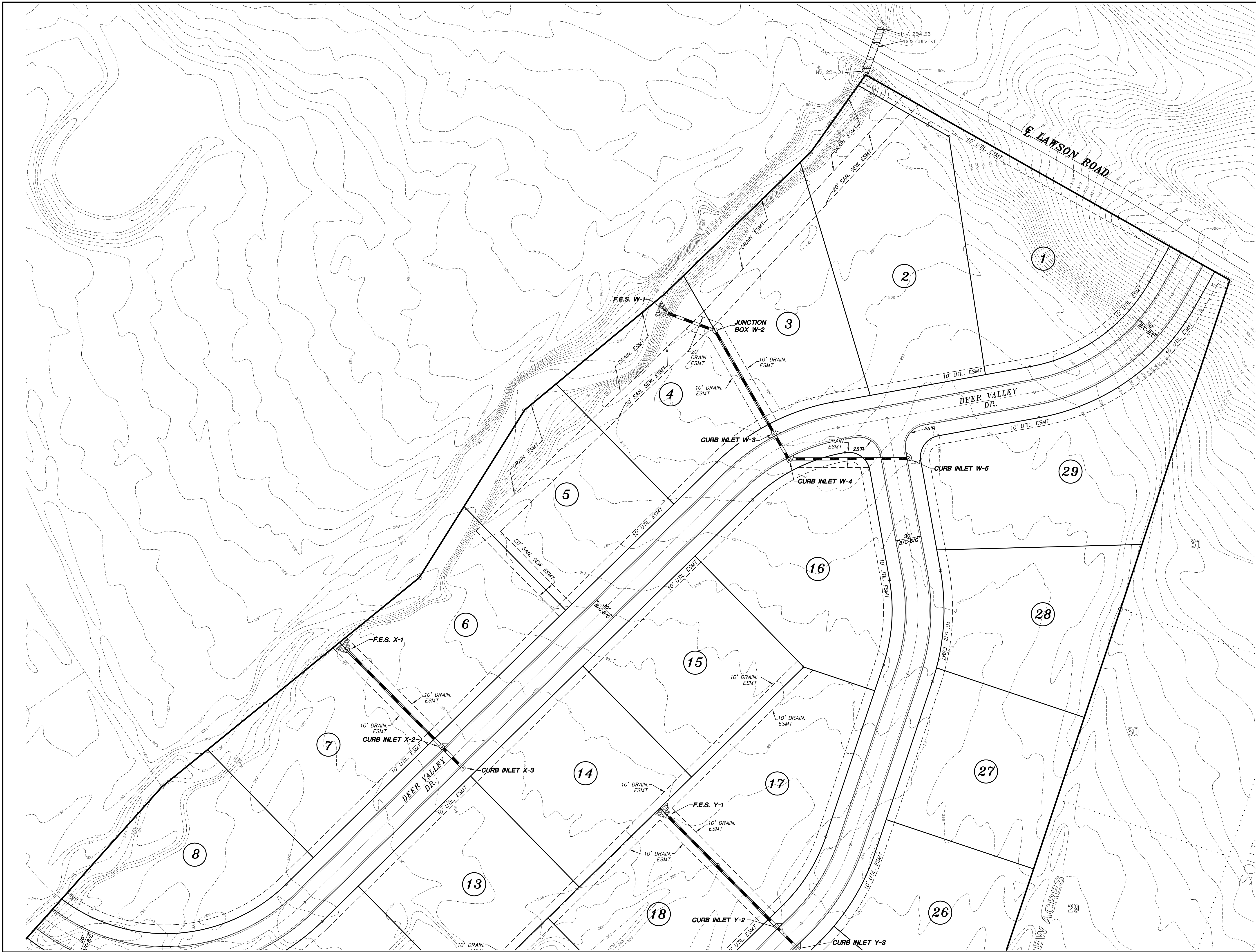
SANITARY SEWER PLAN
DEER VALLEY ESTATES PH. I
JONESBORO, ARKANSAS
FOR
DEER VALLEY ESTATES, LLC

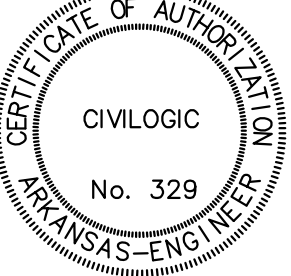
Civilogic

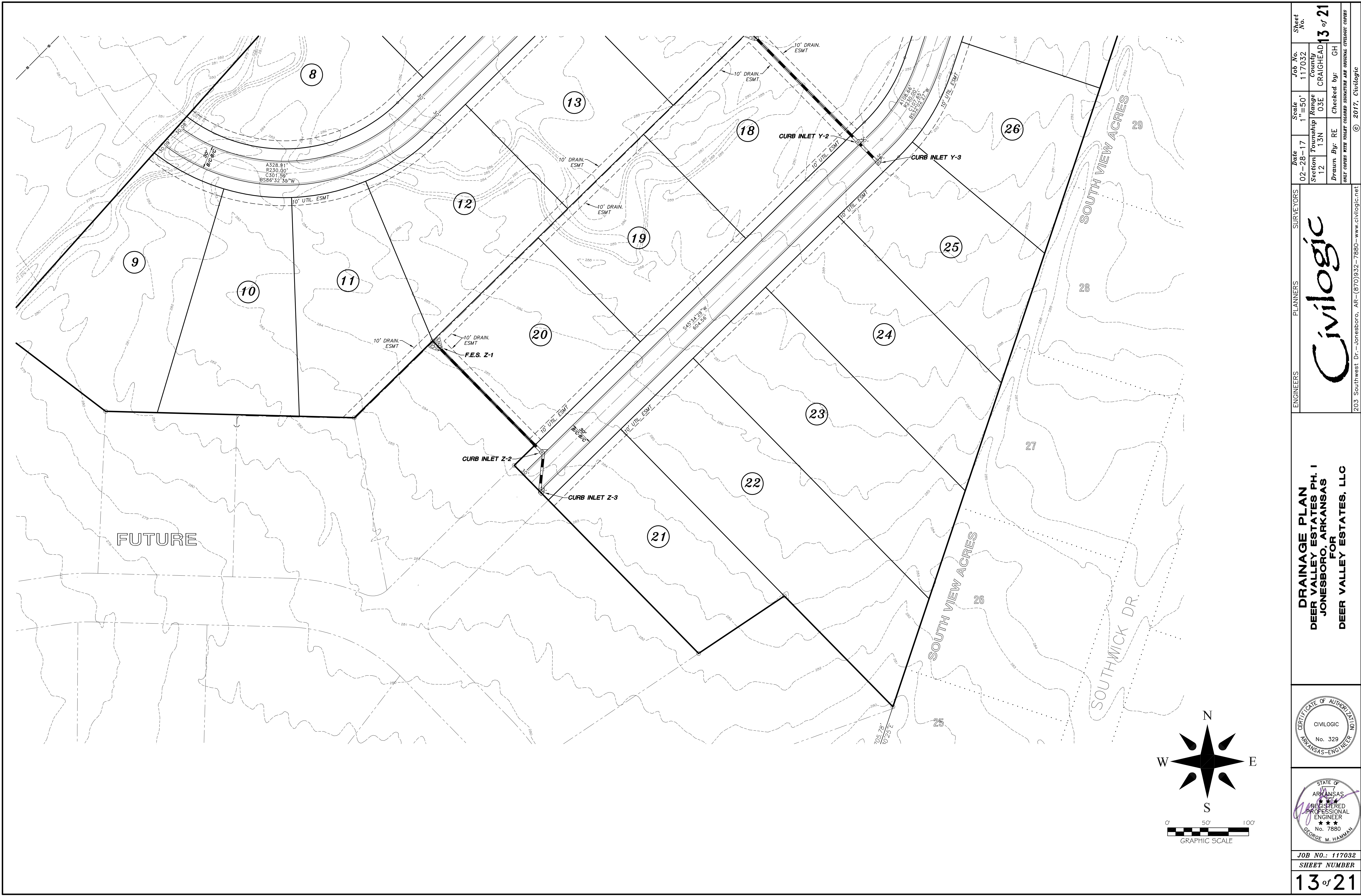
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7880
GEORGE M. HAMMAN

CIVILOGIC
No. 329
ARKANSAS-ENGINEER

JOB NO.: 117032
SHEET NUMBER
11 of 21



ENGINEERS	PLANNERS	SURVEYORS	Civilogic				Job No. 117032	Sheet No. 12 of 21
			Date 02-28-17		Scale 1"=50'	County CRAIGHEAD		
			Section 12	Township 13N	Range 03E	Checked by: GH		
			Drawn By: RE			ONLY COPIES WITH VOLET COLOR SIGNATURE ARE ORIGINAL UTILITY COPIES		
DRAINAGE PLAN DEER VALLEY ESTATES PH. I JONESBORO, ARKANSAS FOR DEER VALLEY ESTATES, LLC								
								
JOB NO.: 117032								
SHEET NUMBER								
12 of 21								



ENGINEERS	PLANNERS	SURVEYORS	Date	Scale	Job No.	Sheet No.
			02-28-17	1"=50'	117032	
			Section	Township	Range	County
			12	13N	03E	CRAIGHEAD
Drawn By: RE			Checked by: GH	13 of 21		
203 Southwest Dr.-Jonesboro, AR-(870)932-7880-www.civilogic.net						

DRAINAGE PLAN
DEER VALLEY ESTATES PH. I
JONESBORO, ARKANSAS
FOR
DEER VALLEY ESTATES, LLC

Civilogic

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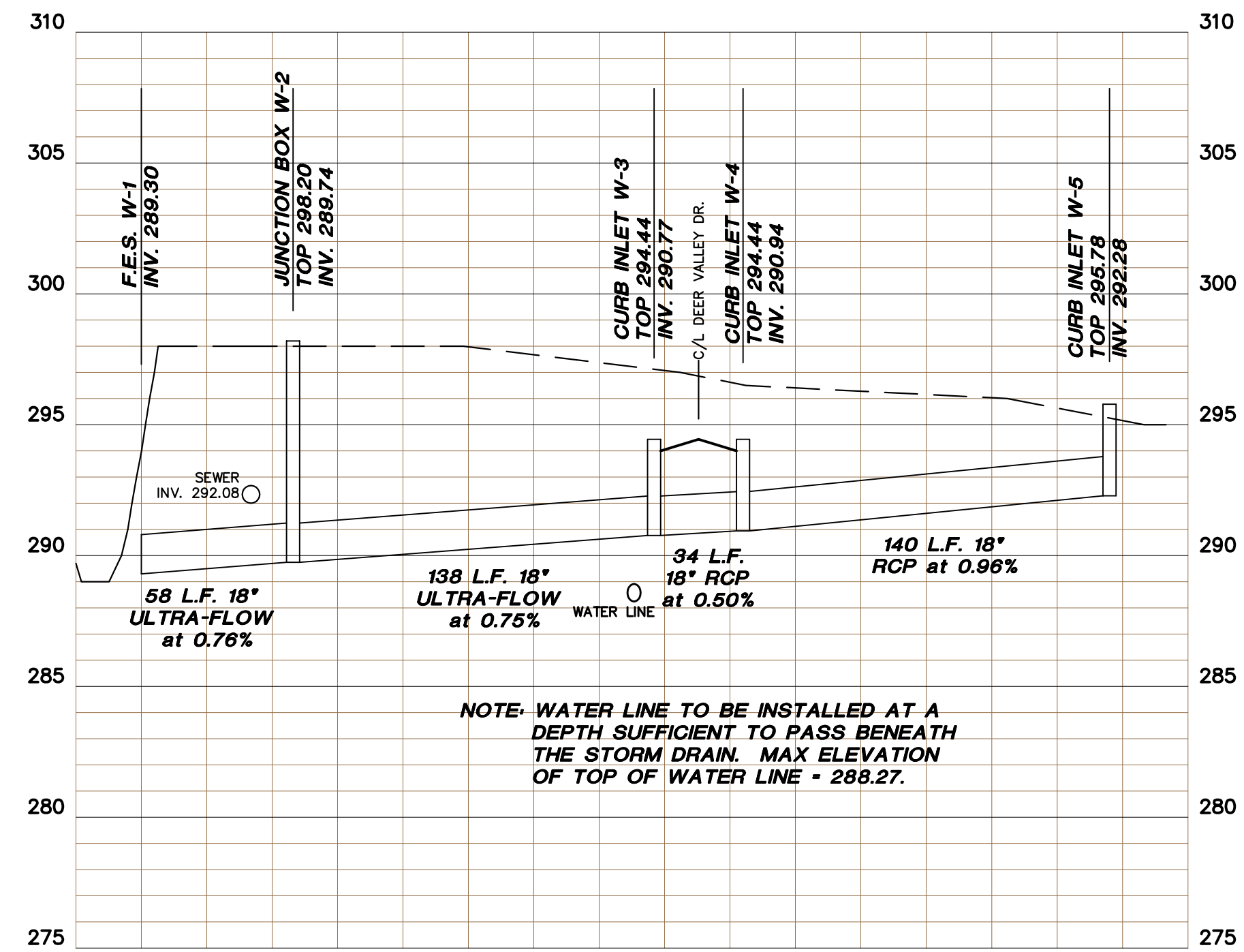
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7880
GEORGE M. HAMMAN

STATE OF ARKANSAS
ENGINEER
No. 329
CIVILOGIC

JOB NO.: 117032

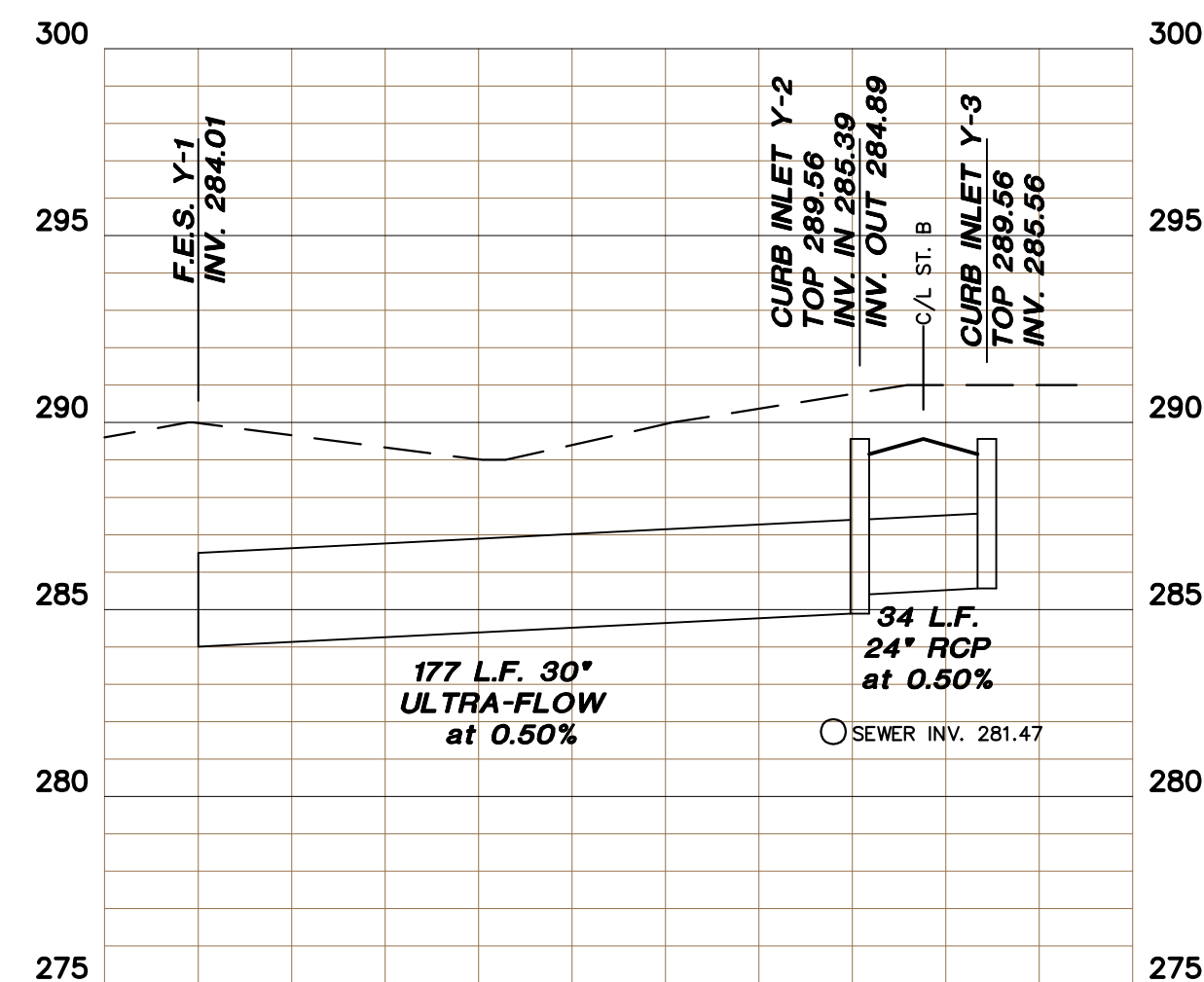
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13 of 21



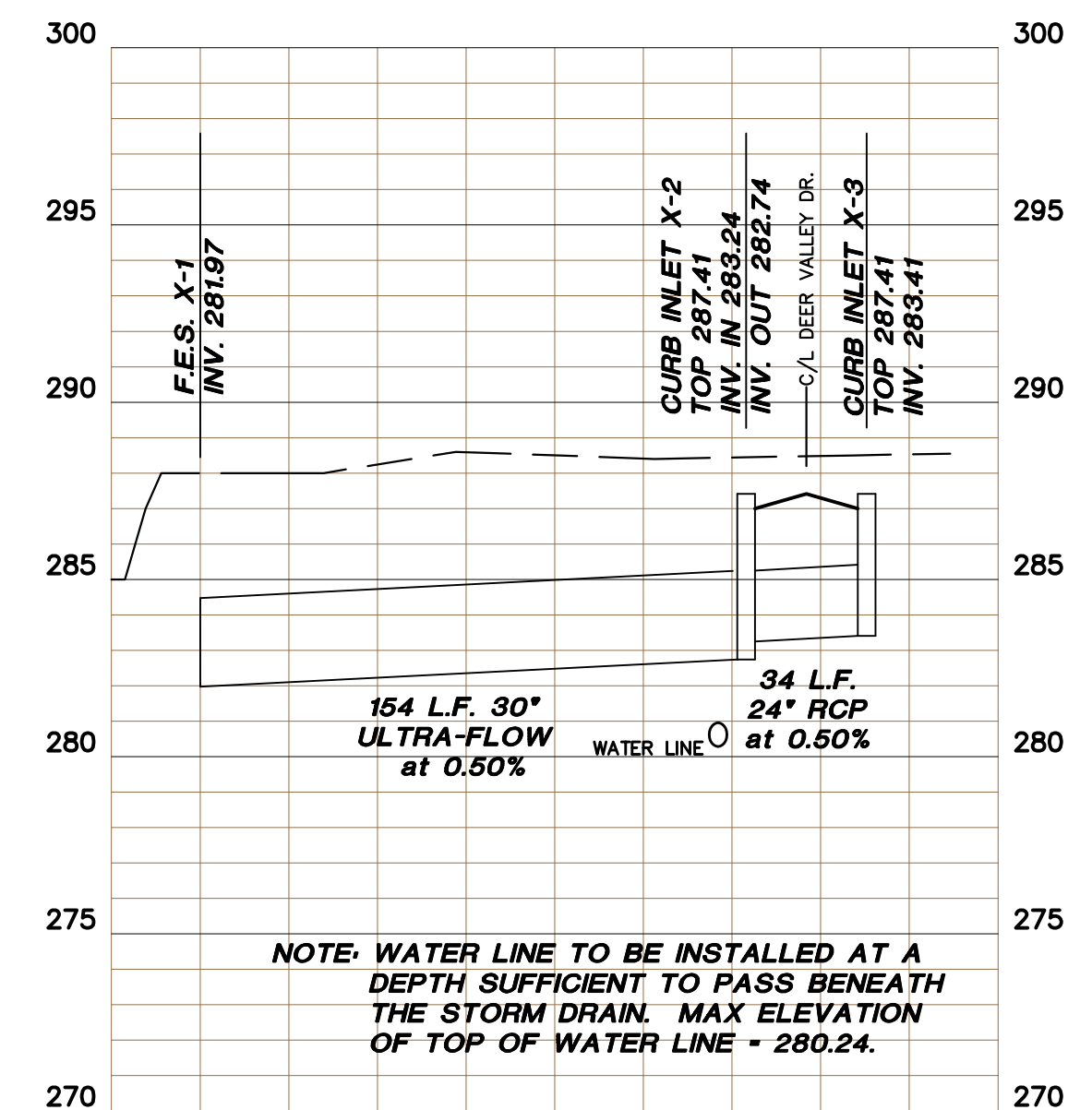
PROFILE - DRAINAGE STRUCTURE 'W'

Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.



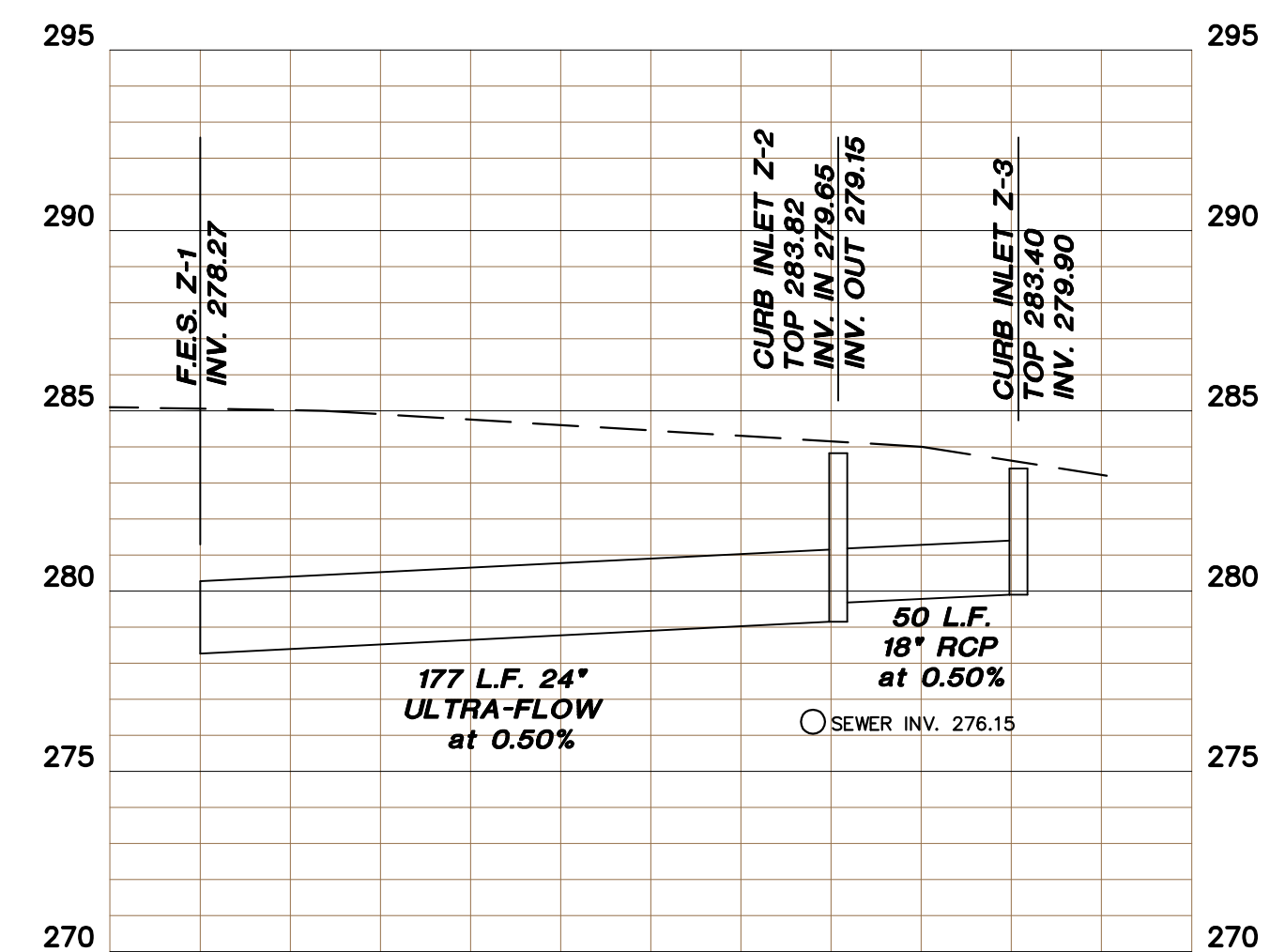
PROFILE - DRAINAGE STRUCTURE 'Y'

Scale 1"=50 ft. Horiz.
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PROFILE - DRAINAGE STRUCTURE 'X'

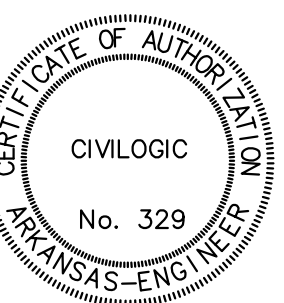
Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.



PROFILE - DRAINAGE STRUCTURE 'Z'

Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.

**DRAINAGE STRUCTURE PROFILES
DEER VALLEY ESTATES PH. I
JONESBORO, ARKANSAS
FOR
DEER VALLEY ESTATES, LLC**

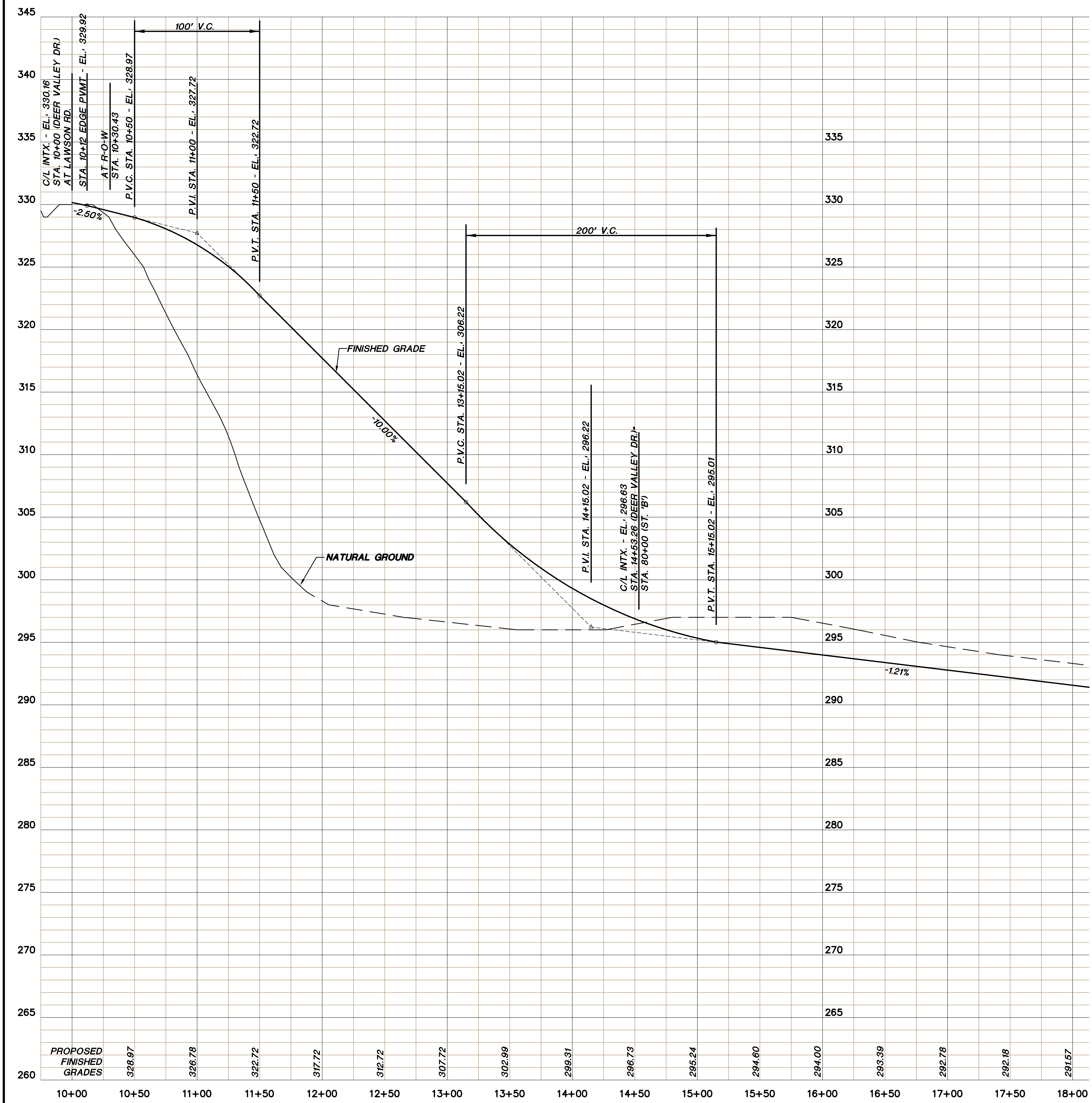


JOB NO.: 117032

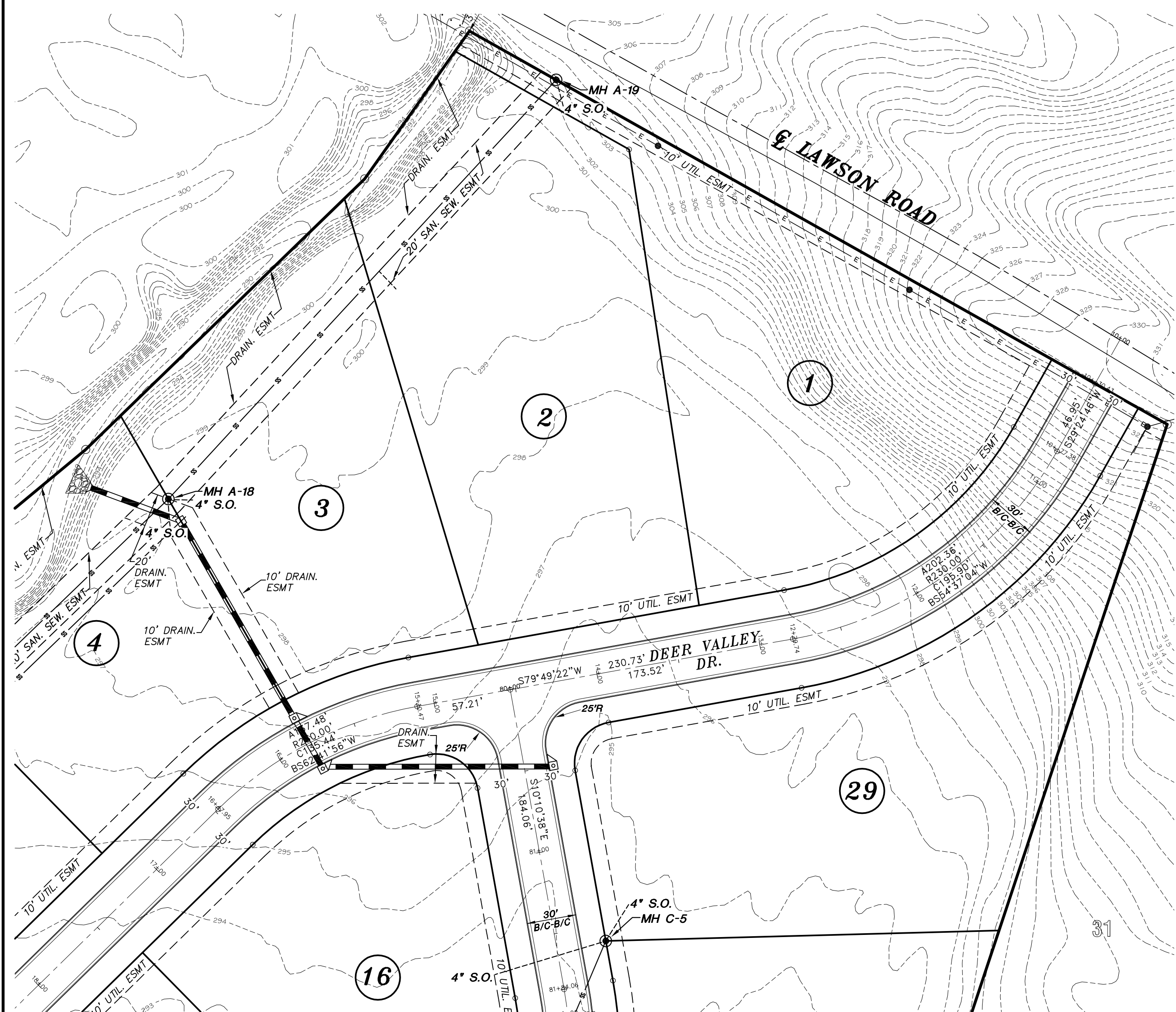
SHEET NUMBER

14 of 21

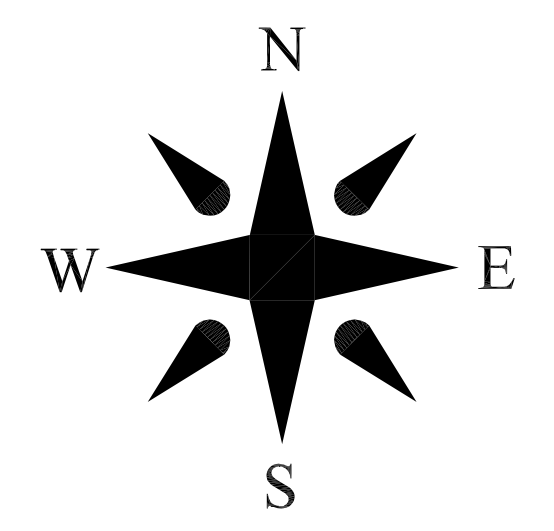
02-28-17	Township 12	Range 13N	County OSE	117032	No.
Section 14 of 21 Drawn By: RE Checked by: GH					
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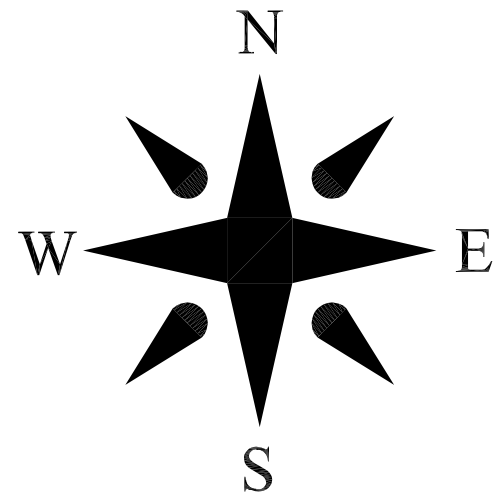
PROFILE - DEER VALLEY DR.
Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.



PLAN VIEW - DEER VALLEY DR.
Scale 1"=50 ft.

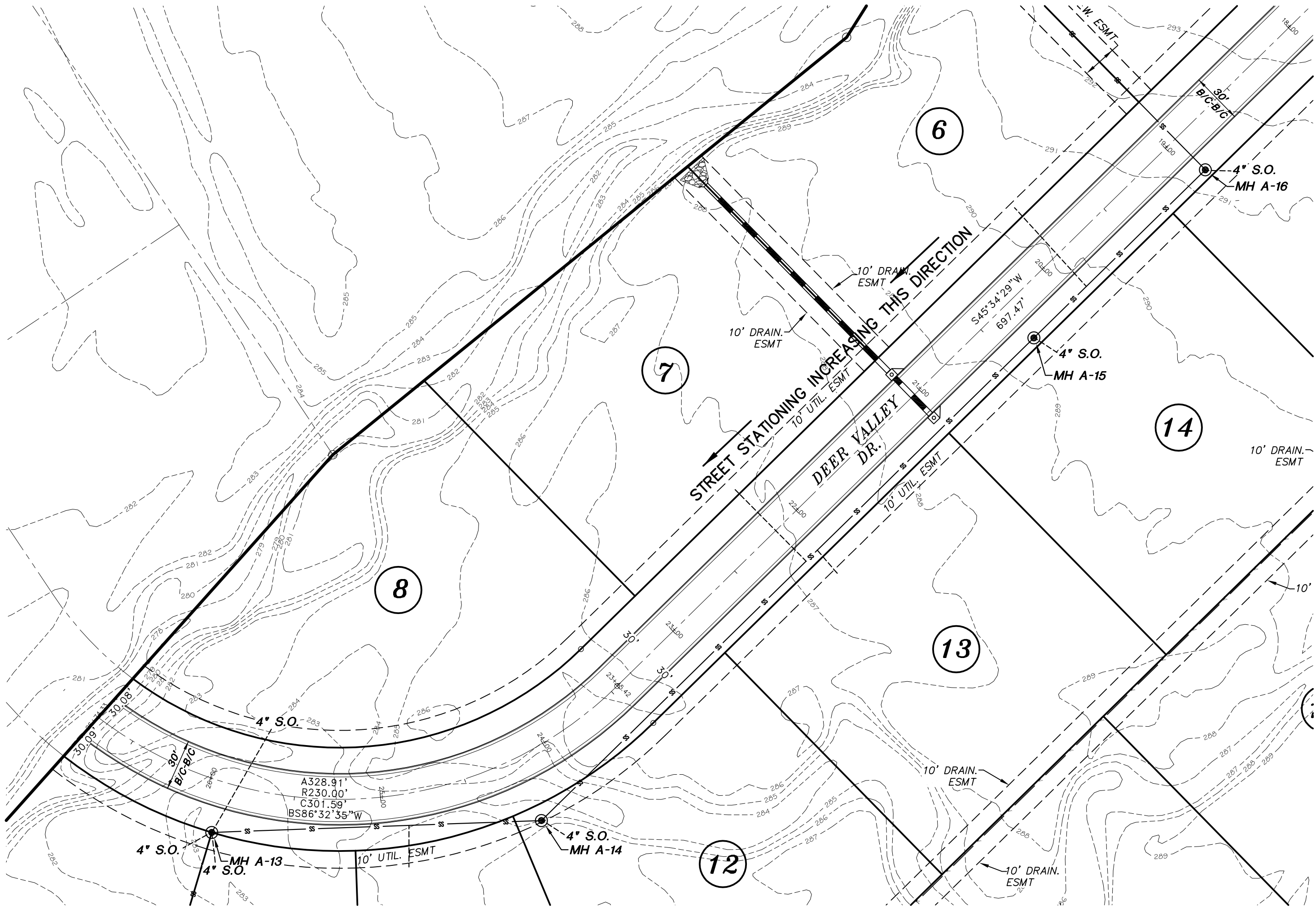


PLANNERS Civilogic	DATE 02-28-17	SCALE SHOWN	JOB NO. 117032	SHEET NO. 15 of 21
	SECTION 12	TOWNSHIP 13N	COUNTY CRAIGHEAD	CHECKED BY GH
ENGINEERS PLAN & PROFILE DEER VALLEY ESTATES PH. I JONESBORO, ARKANSAS FOR DEER VALLEY ESTATES, LLC	203 Southwest Dr., Jonesboro, AR (870)932-7880 - www.civilogic.net			
REGISTERED PROFESSIONAL ENGINEER No. 329 ARKANSAS ENGINEER	REGISTERED PROFESSIONAL ENGINEER No. 7880 GEORGE M. HAMMAN			
JOB NO.: 117032				
SHEET NUMBER				
15 of 21				



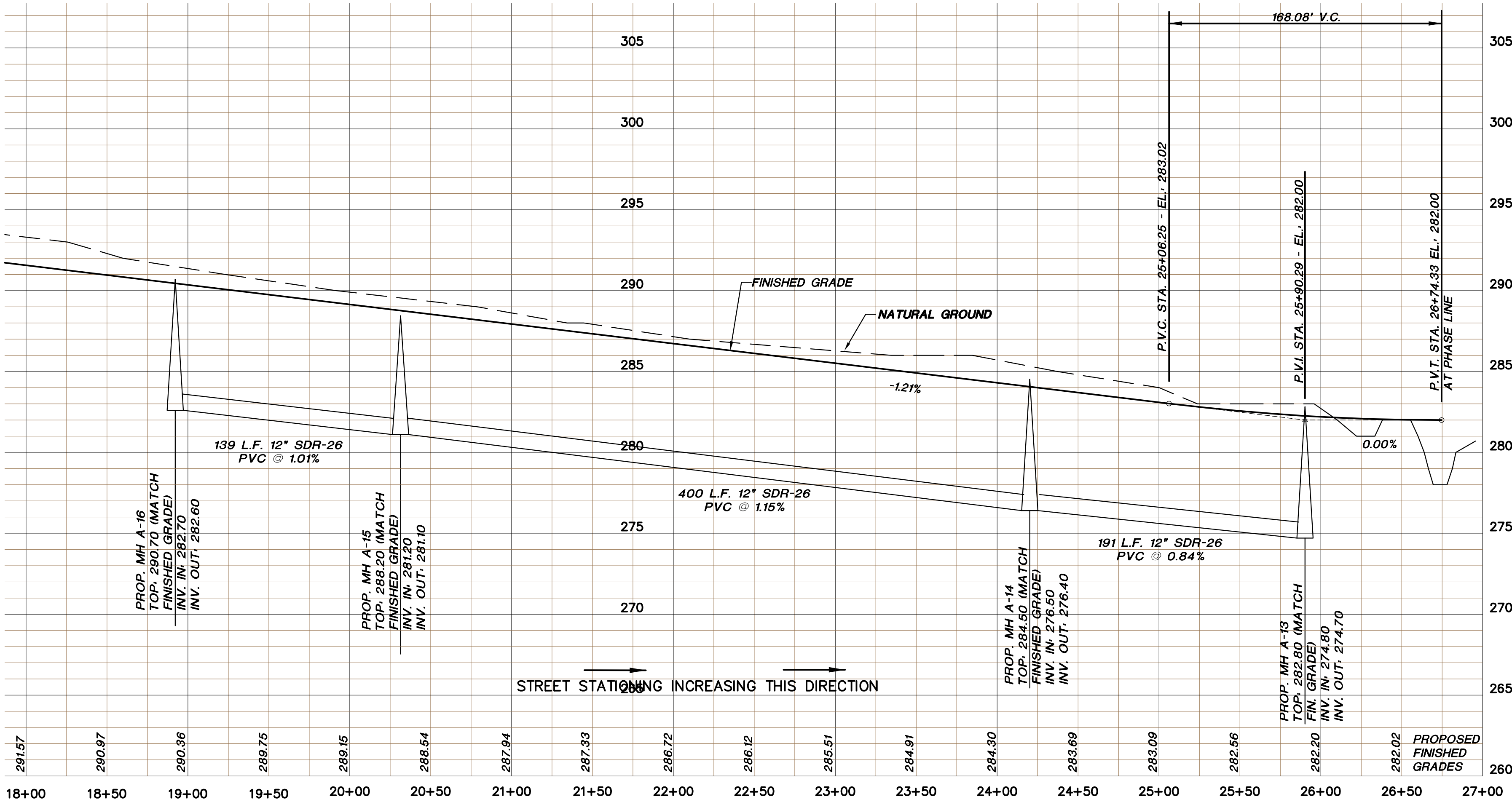
PLAN VIEW - DEER VALLEY DR.

Scale 1"=50 ft.



PROFILE - DEER VALLEY DR.

Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.



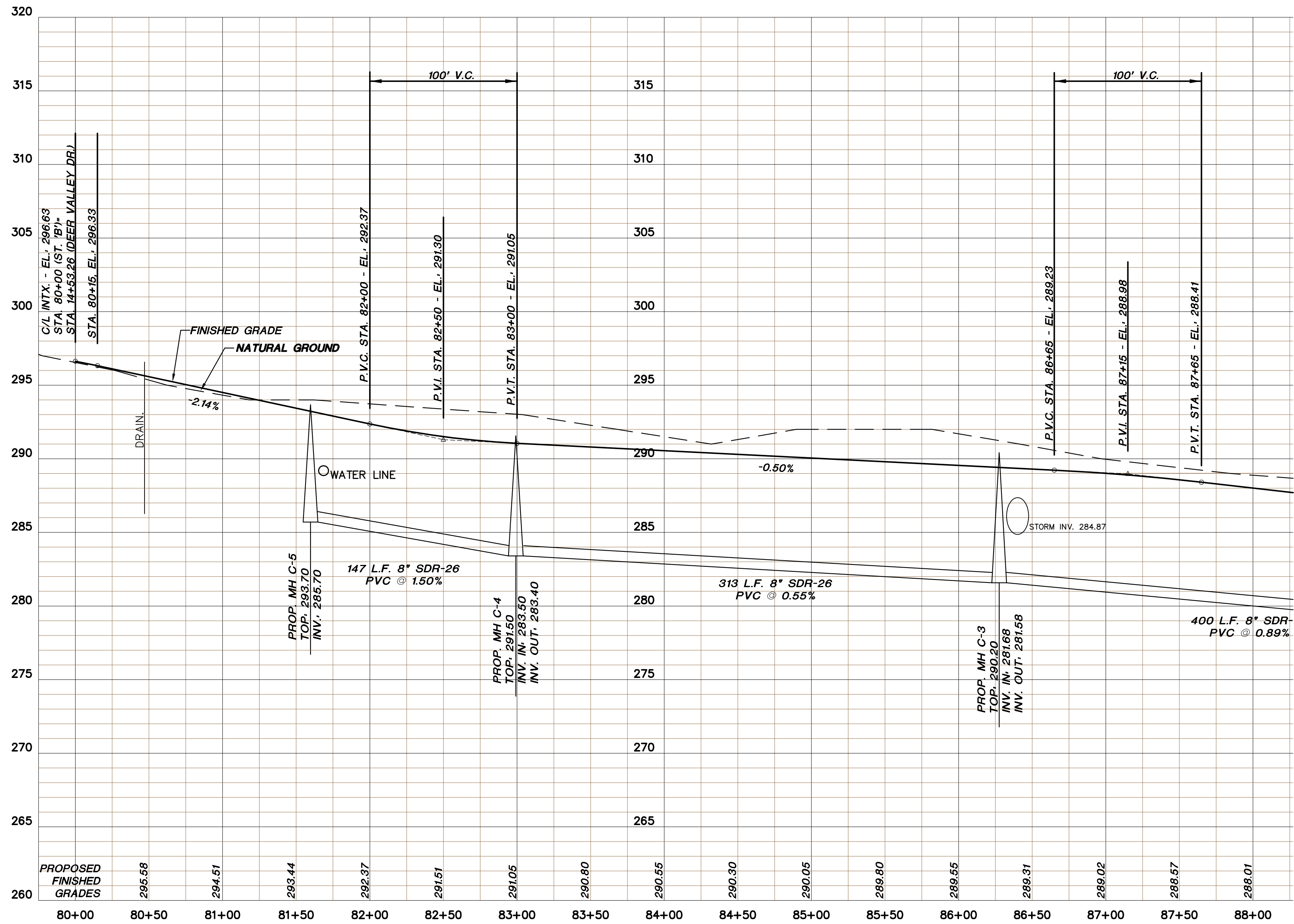
ENGINEERS	PLANNERS	SURVEYORS	Date	Scale	Job No.	Sheet No.
			02-28-17	SHOWN	117032	117032
			Section	Township	Range	County
			12	13N	03E	CRAIGHEAD
Drawn By: RE			Checked by: GH	16 of 21		
203 Southwest Dr. - Jonesboro, AR - (870)932-7880 - www.civilogic.net						
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PLAN & PROFILE
DEER VALLEY ESTATES PH. I
JONESBORO, ARKANSAS
FOR
DEER VALLEY ESTATES, LLC

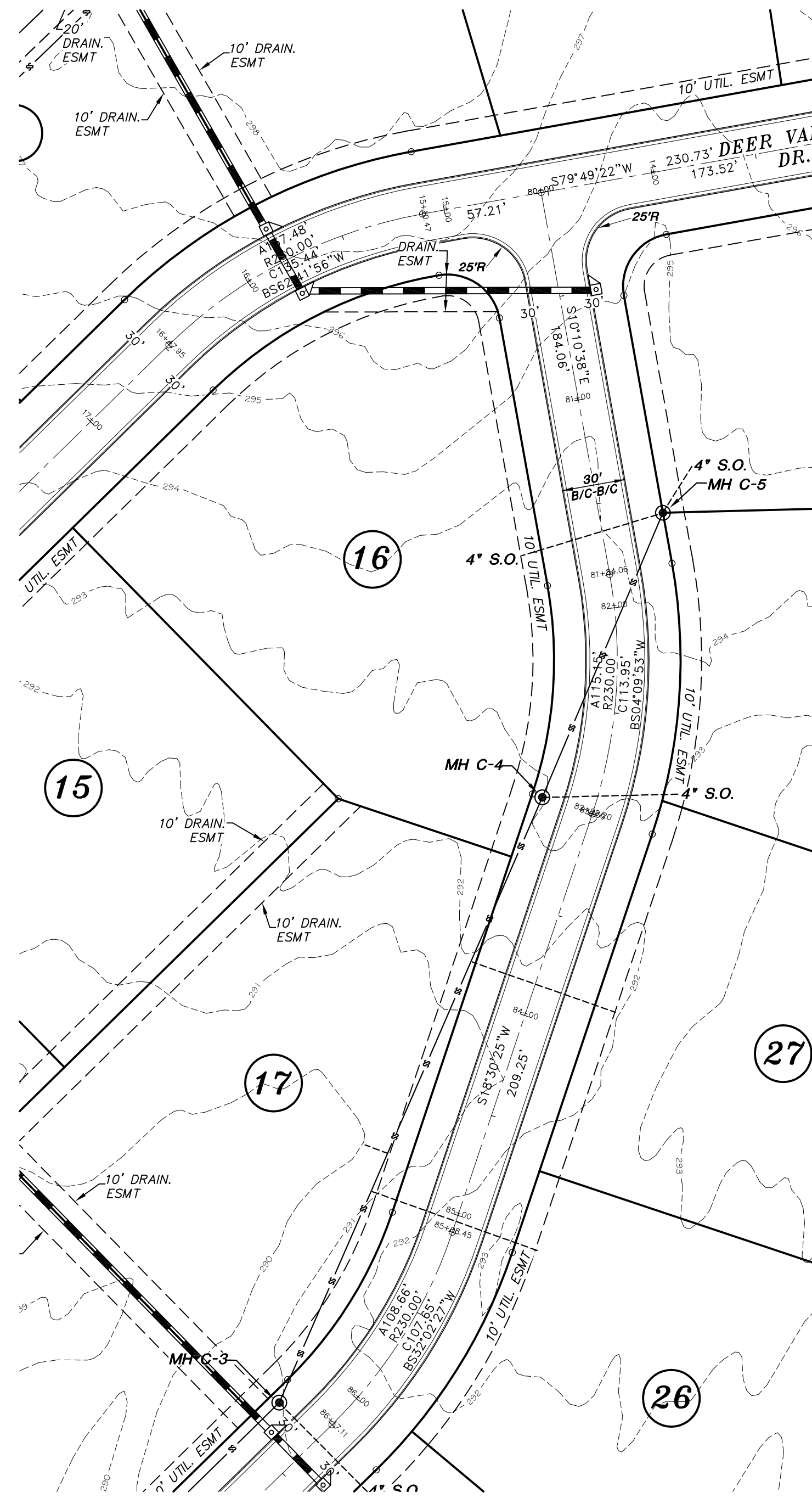
CIVILOGIC
No. 329
ARKANSAS-ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7880
GEORGE M. HAMAN

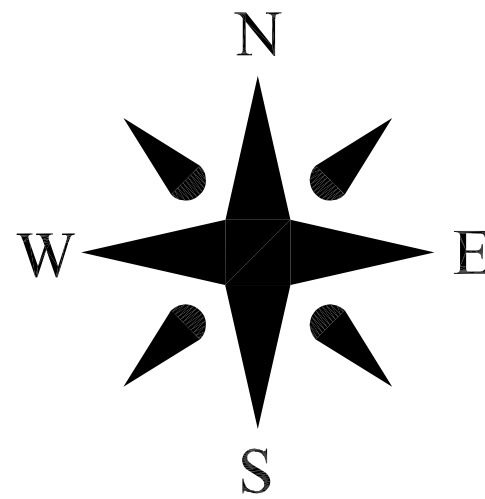
JOB NO.: 117032
SHEET NUMBER
16 of 21



PROFILE - STREET 'B'
Scale 1"=50 ft. Horiz.
1" = 5 ft. Vert.



PLAN VIEW - STREET 'B'
Scale 1"=50 ft.



ENGINEERS	PLANNERS	SURVEYORS	Date	Scale	Job No.	Sheet No.
			02-28-17	SHOWN	117032	17 of 21
			Section	Township	Range	County
			12	13N	03E	CRAIGHEAD
Drawn By: RE			Checked by: GH			
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PLAN & PROFILE
DEER VALLEY ESTATES PH. I
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FOR
DEER VALLEY ESTATES, LLC

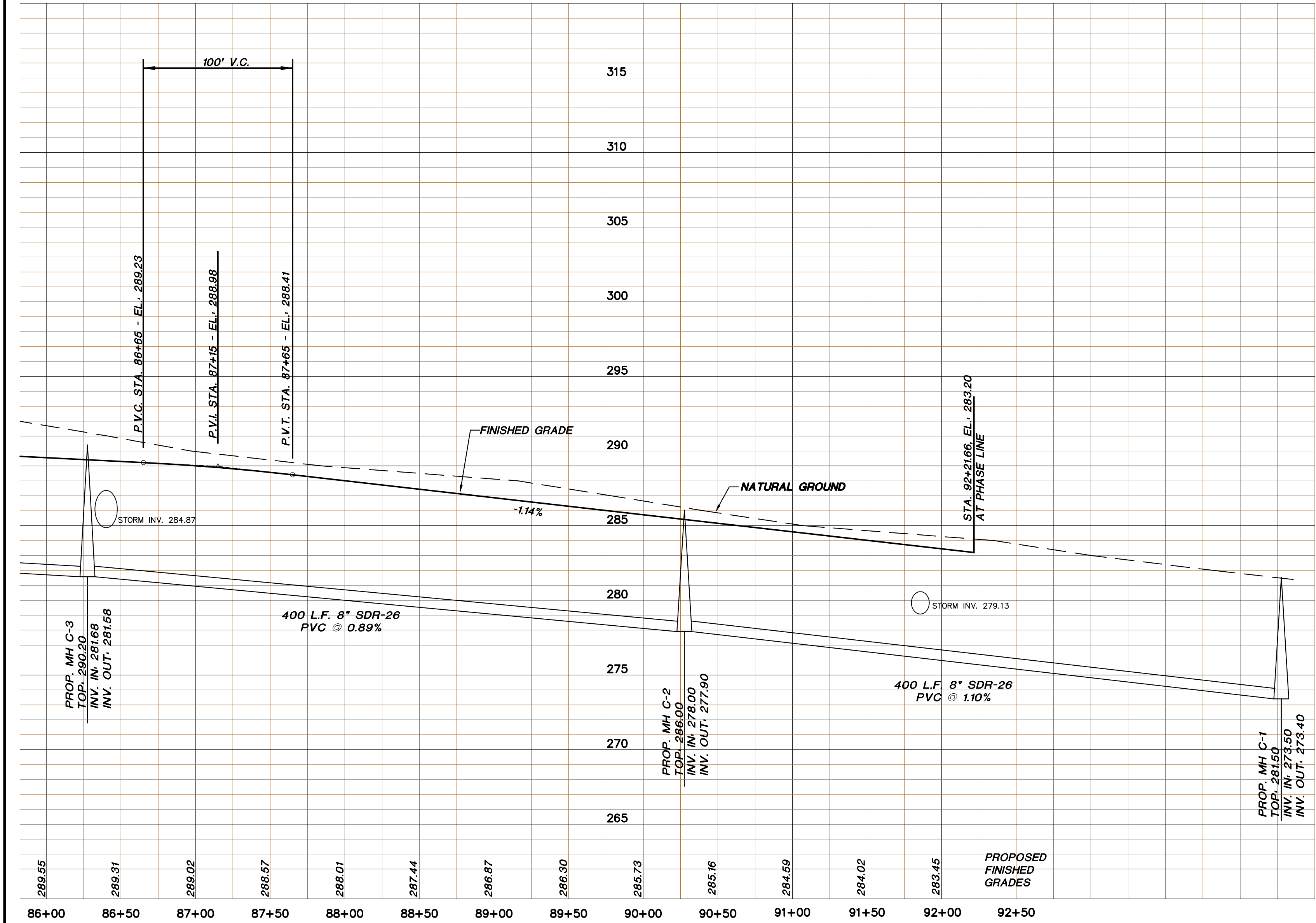
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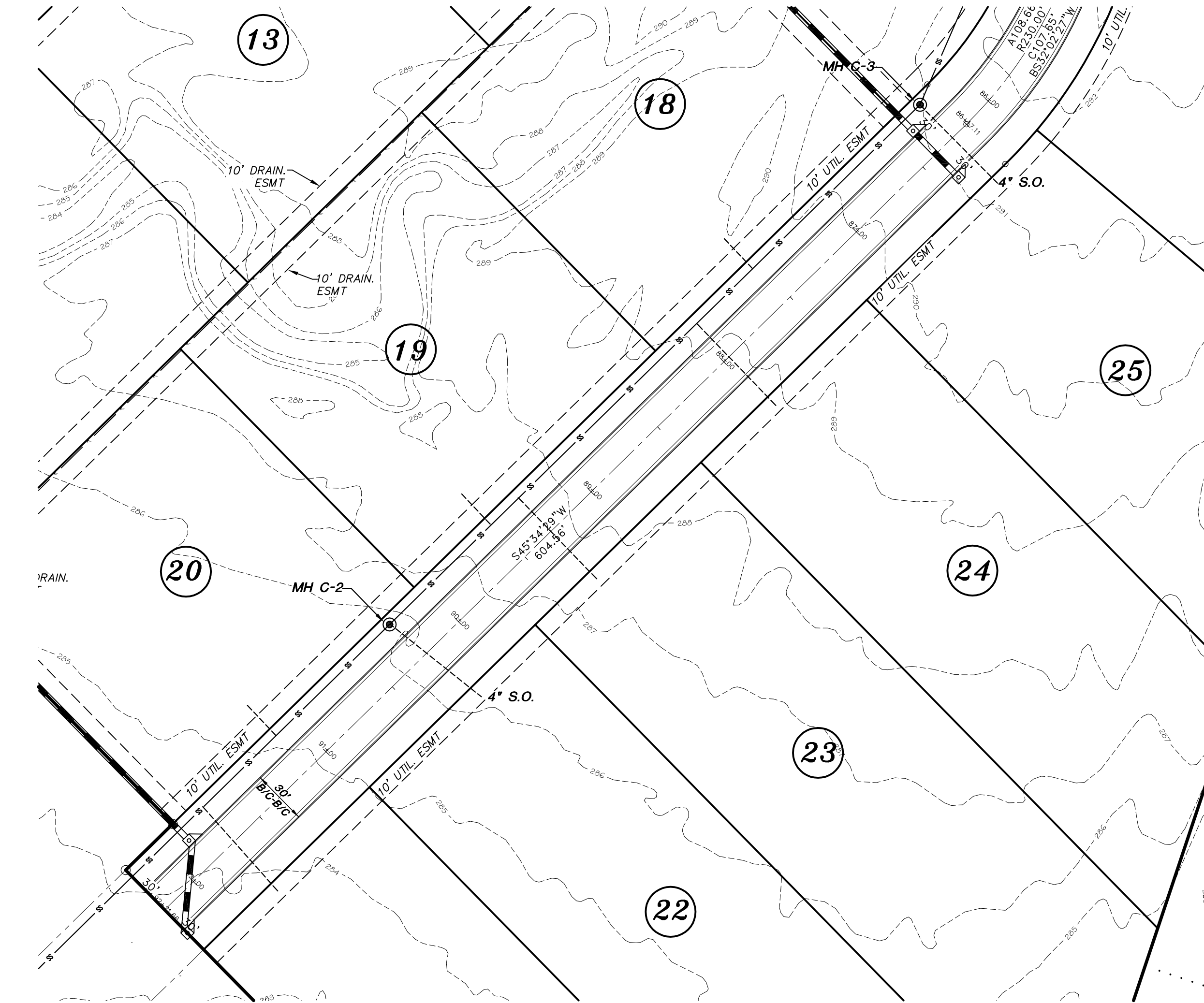
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7880
GEORGE M. HAMAN

ESTATE OF AUTHORITY
CIVILOGIC
No. 329
ARKANSAS-ENGINEER

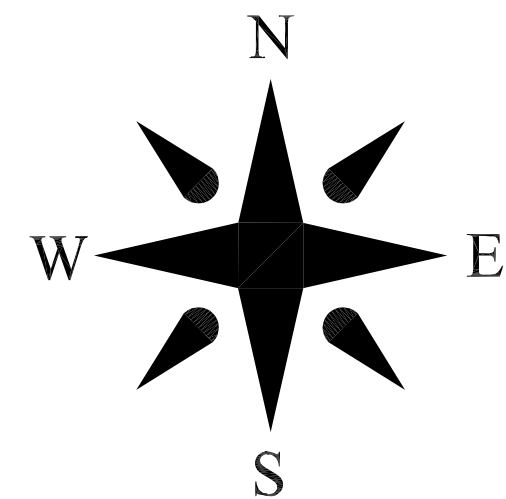
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SHEET NUMBER
17 of 21



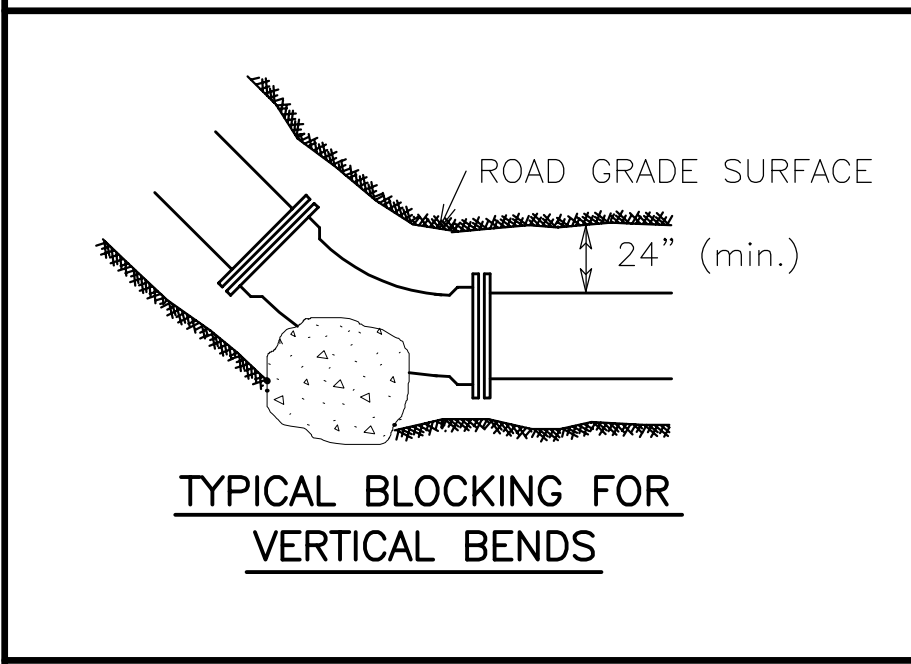
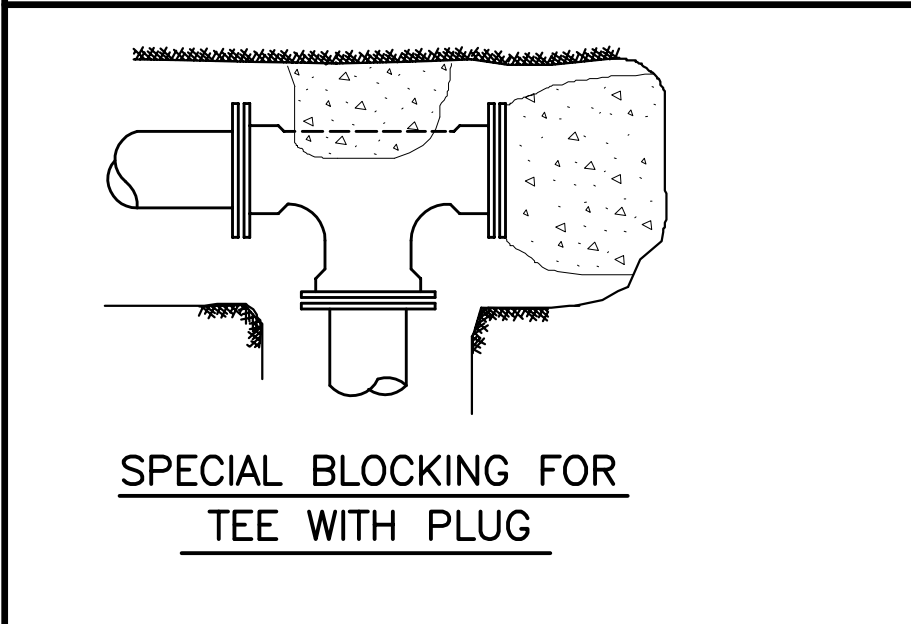
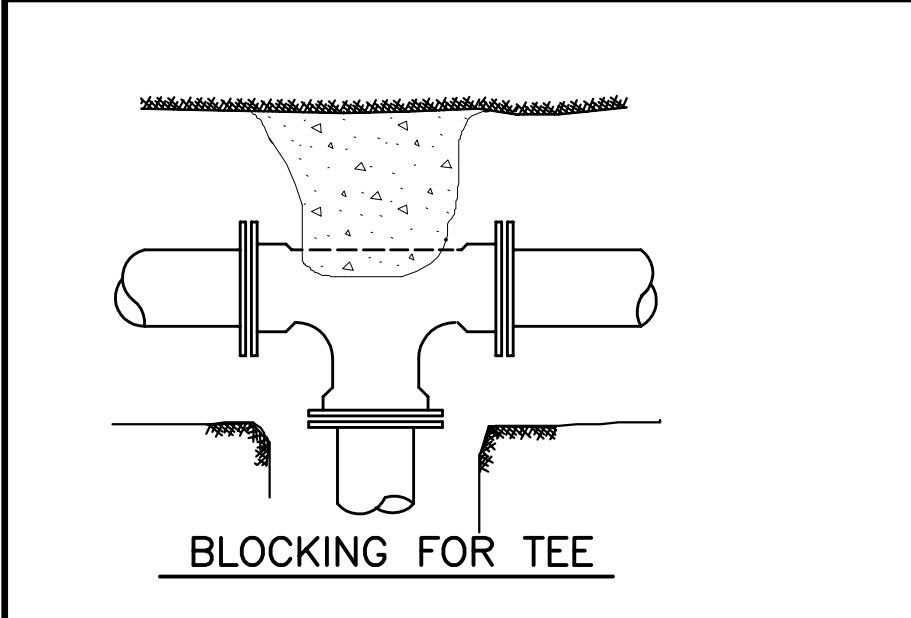
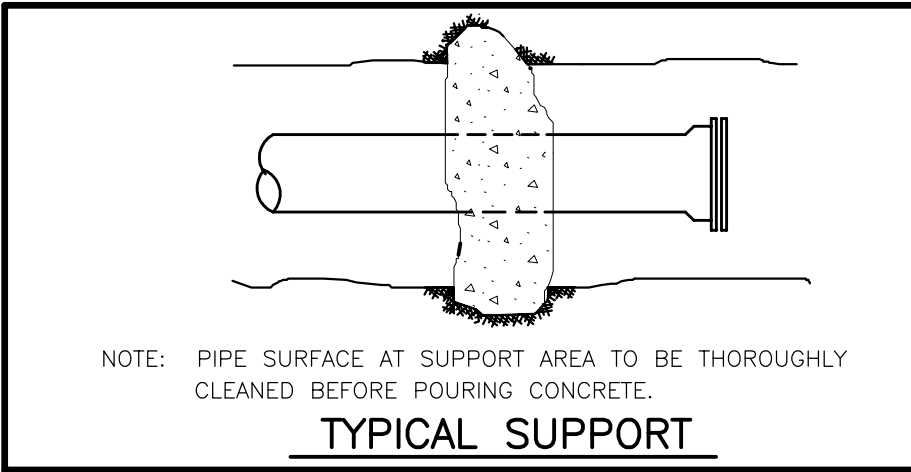
PROFILE - STREET 'B'
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1" = 5 ft. Vert.



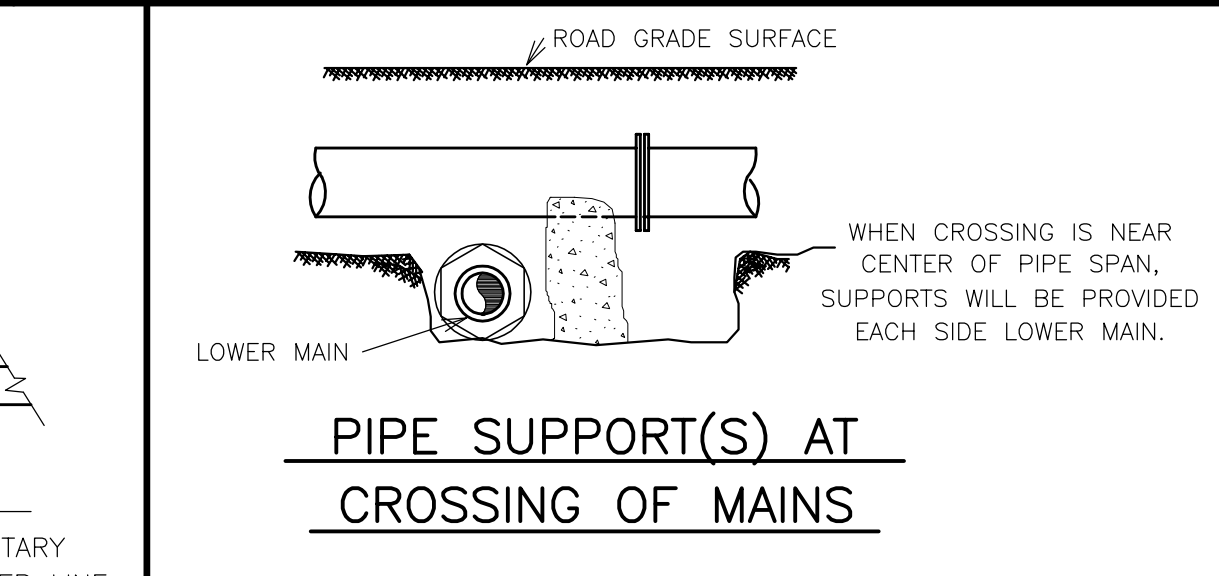
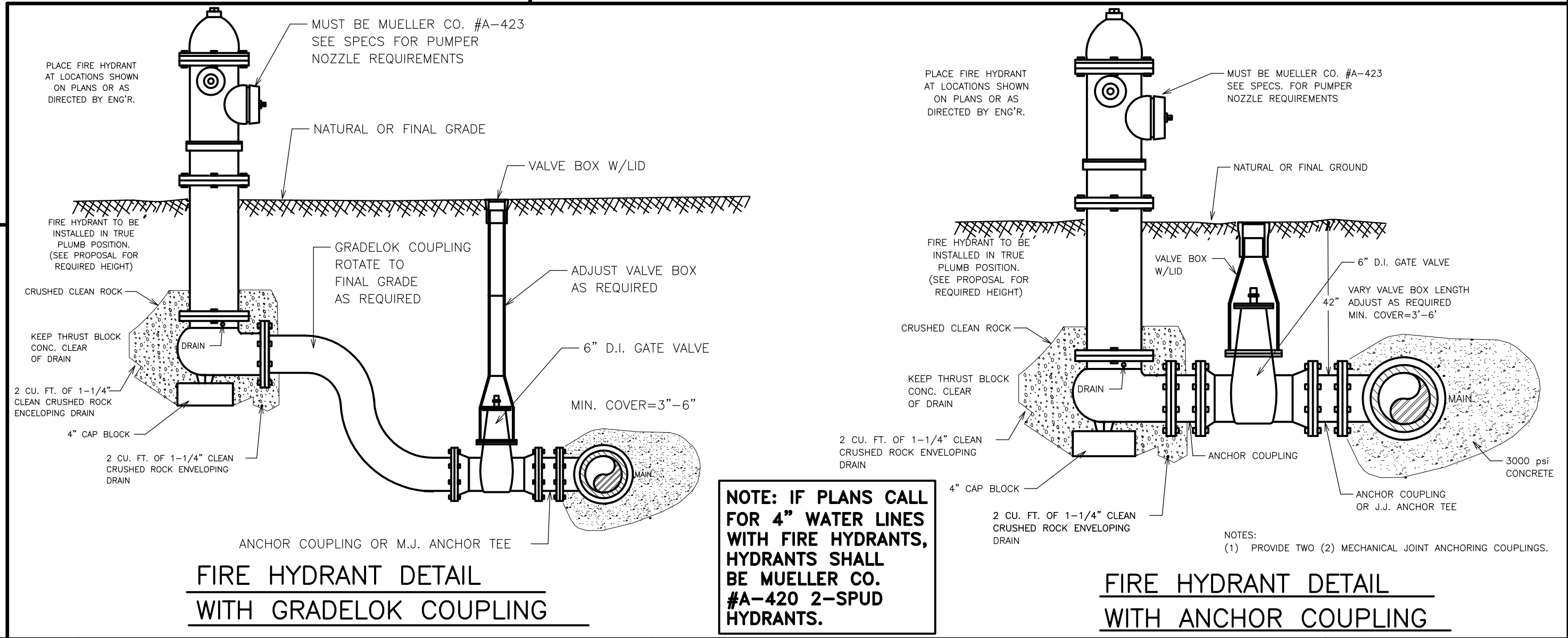
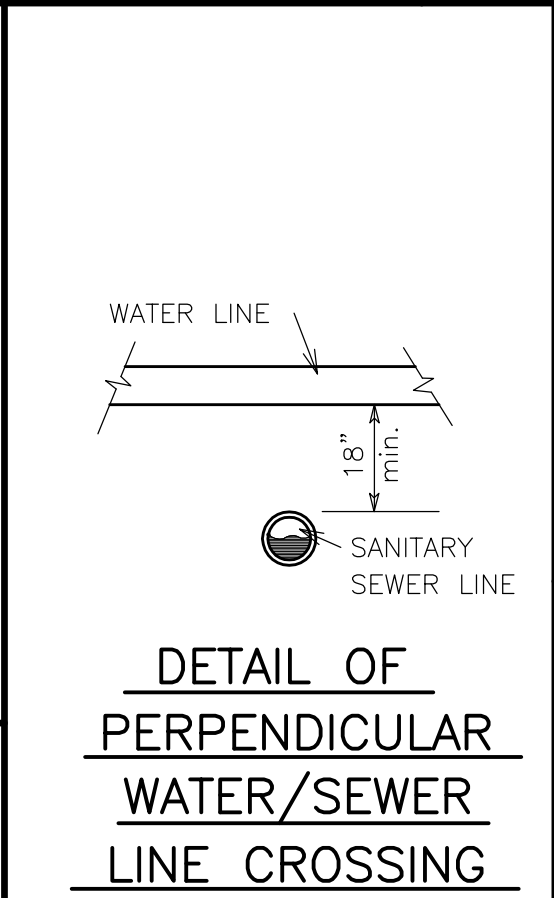
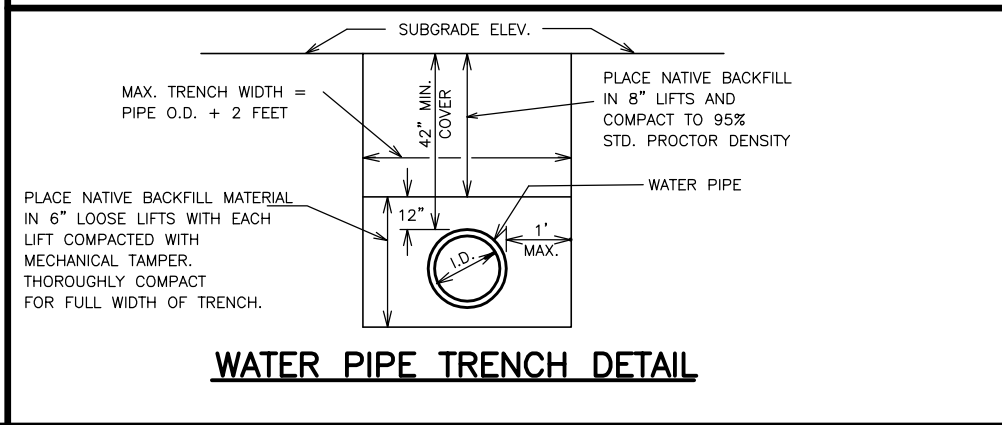
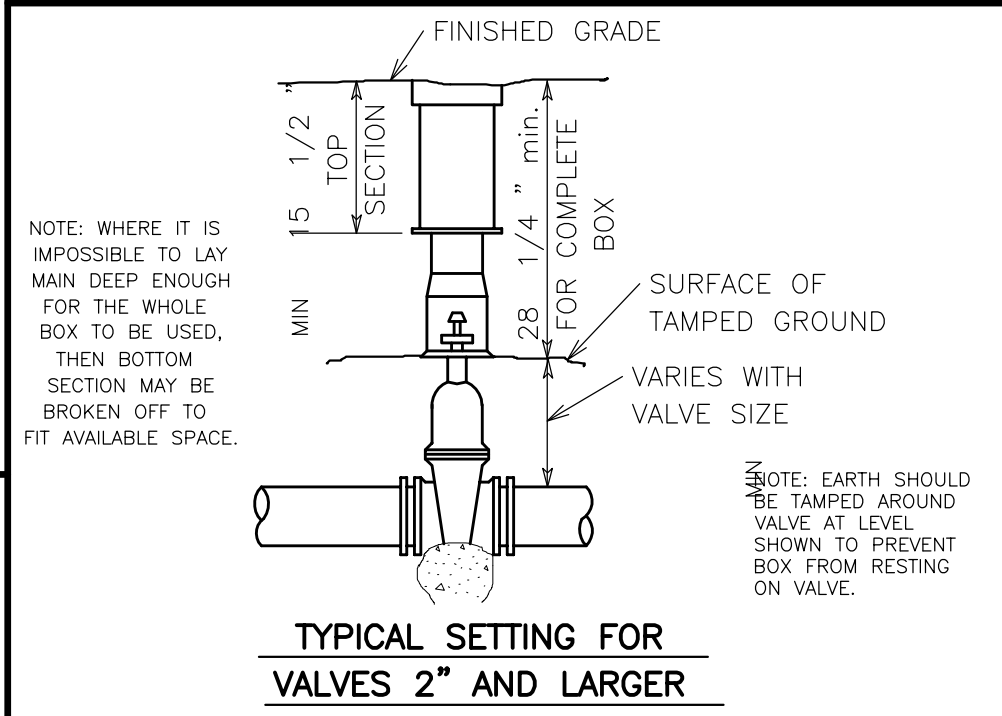
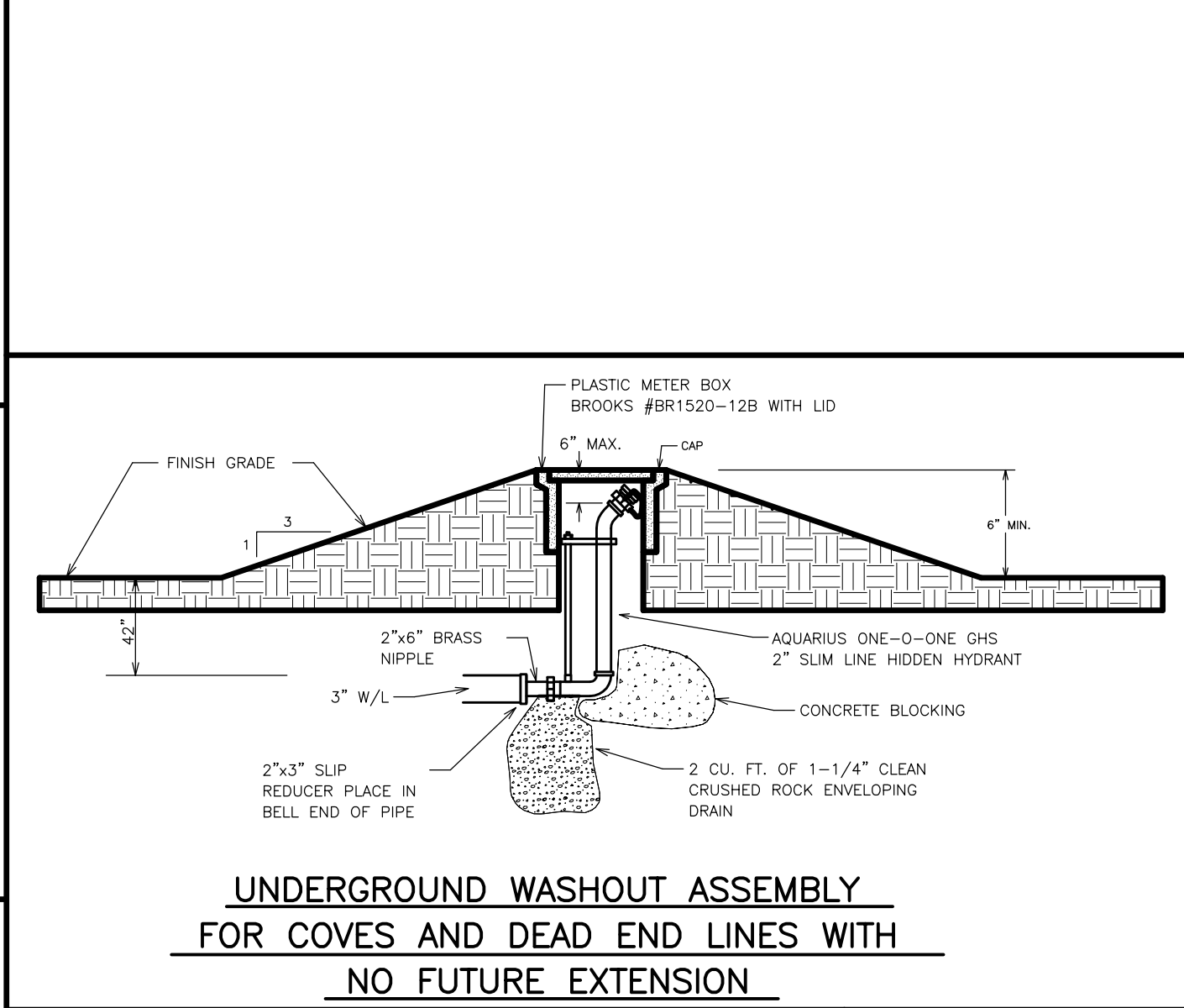
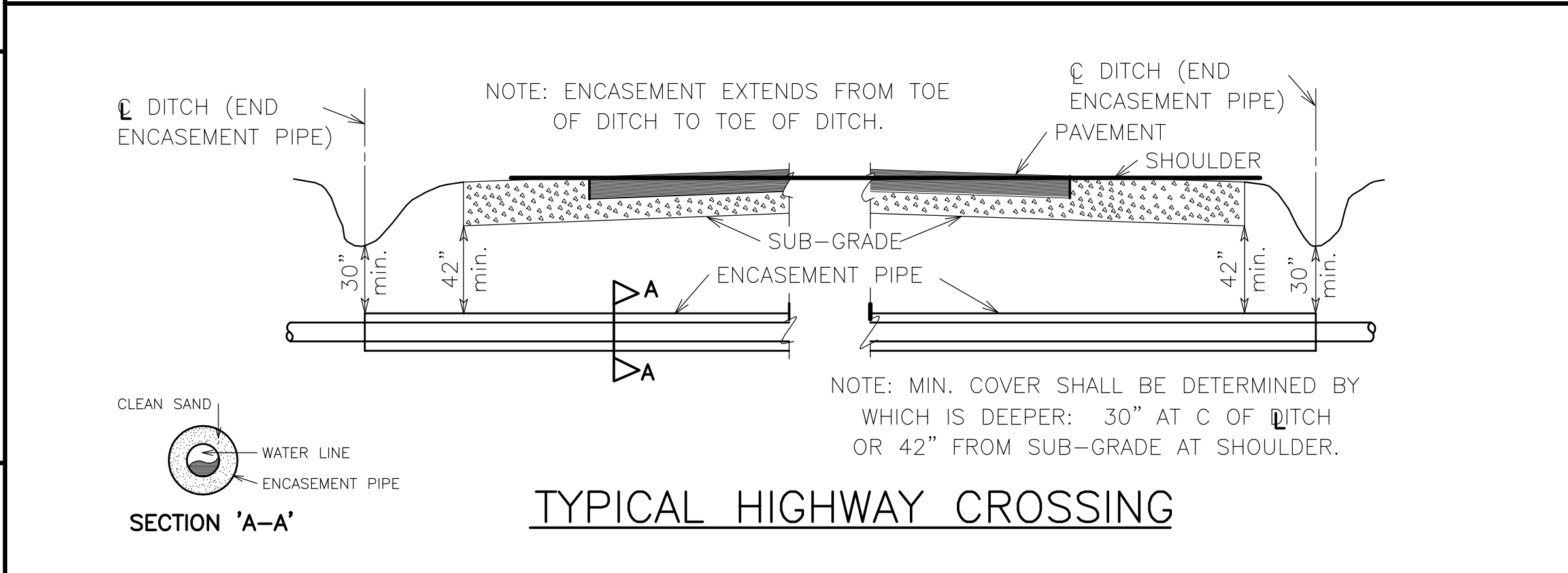
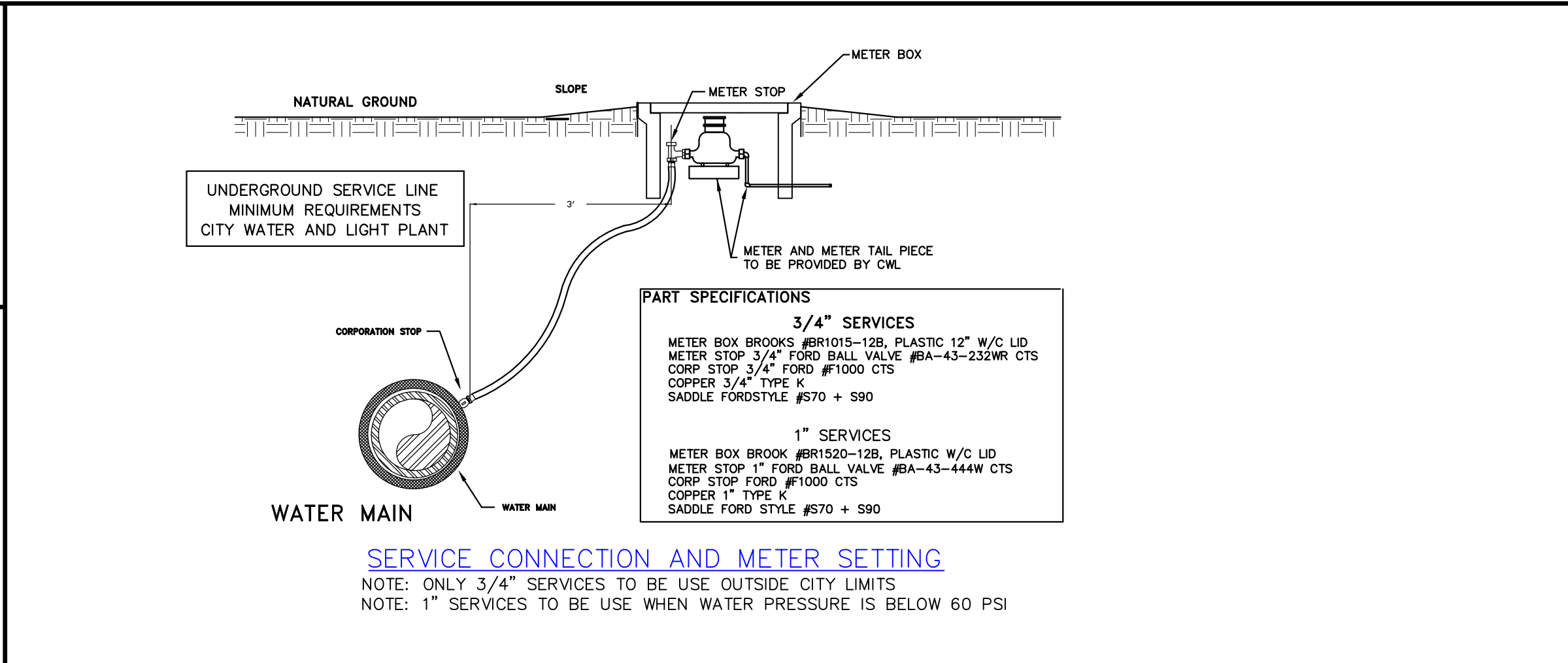
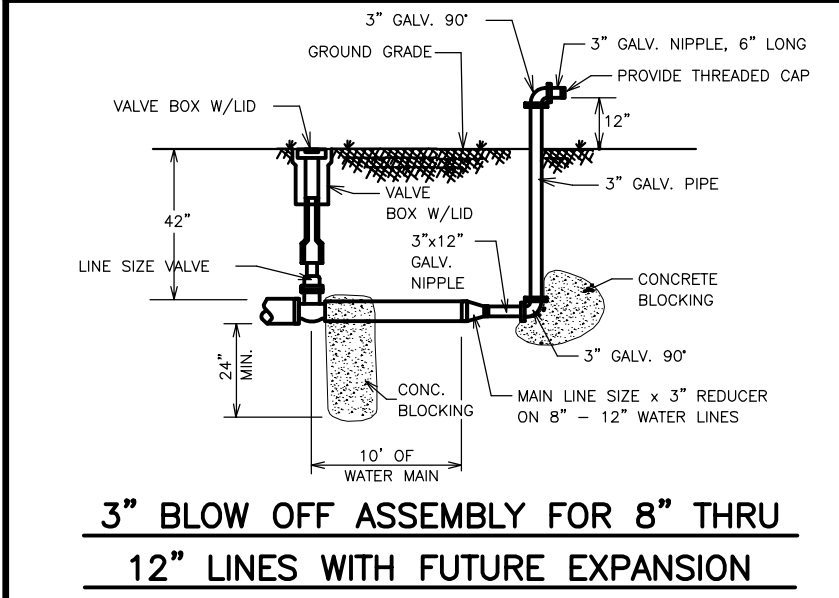
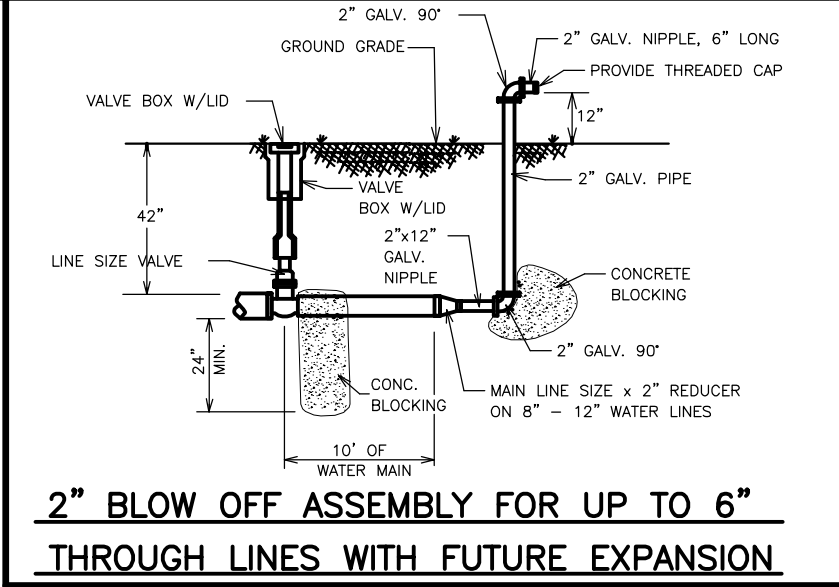
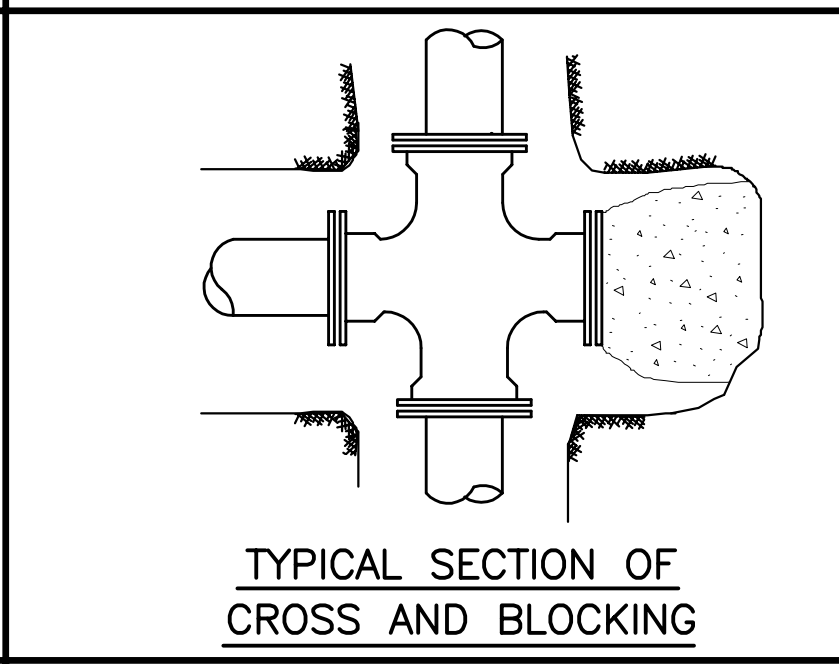
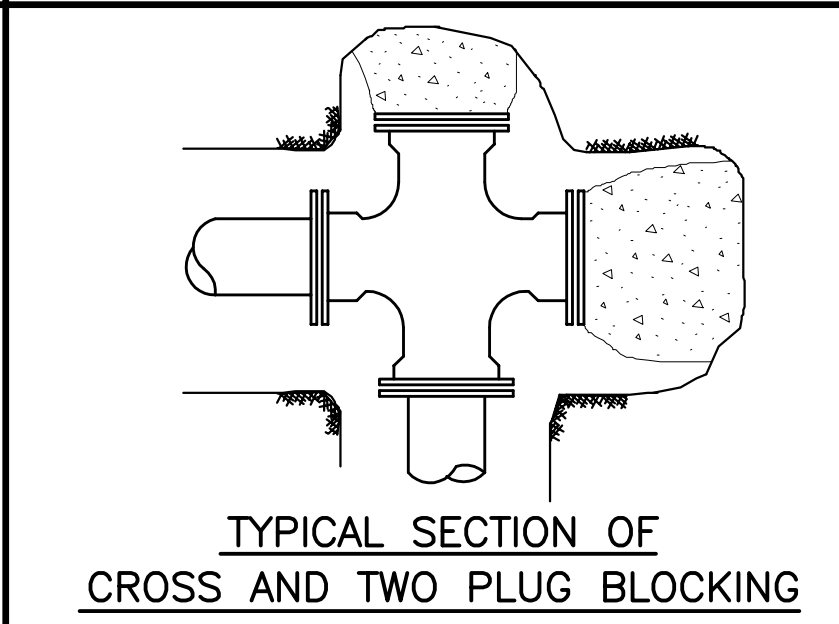
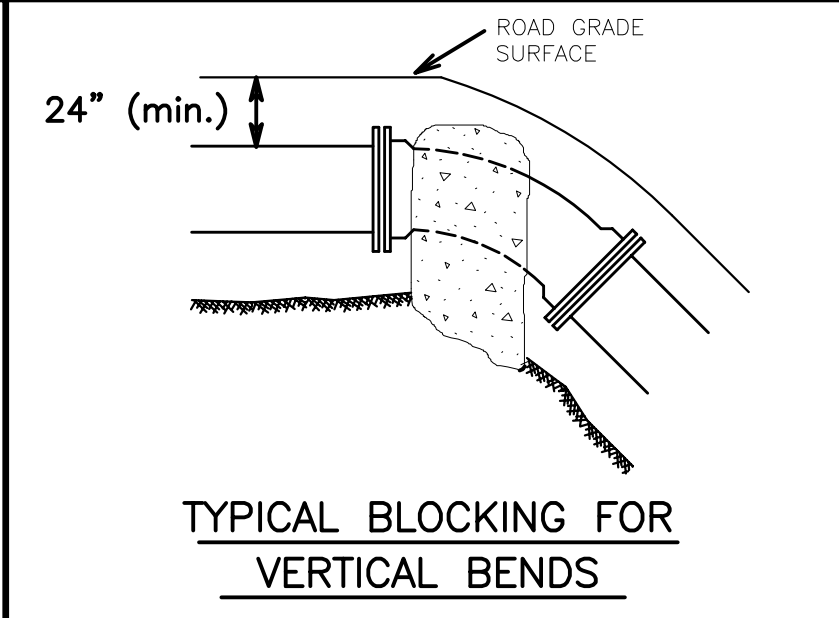
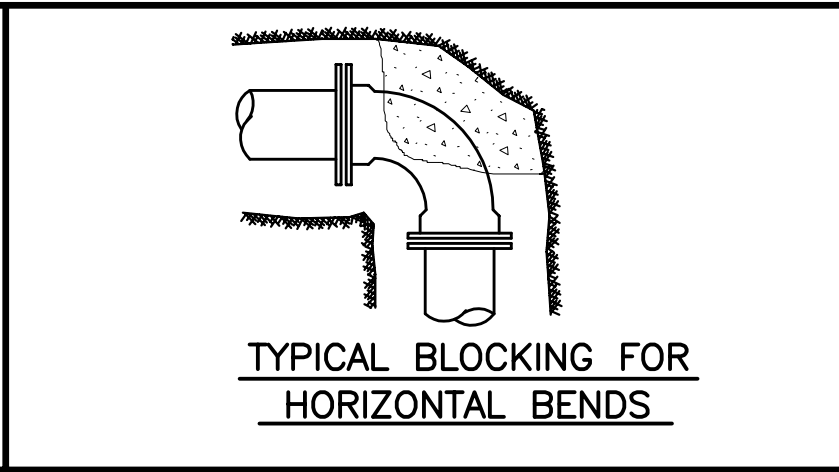
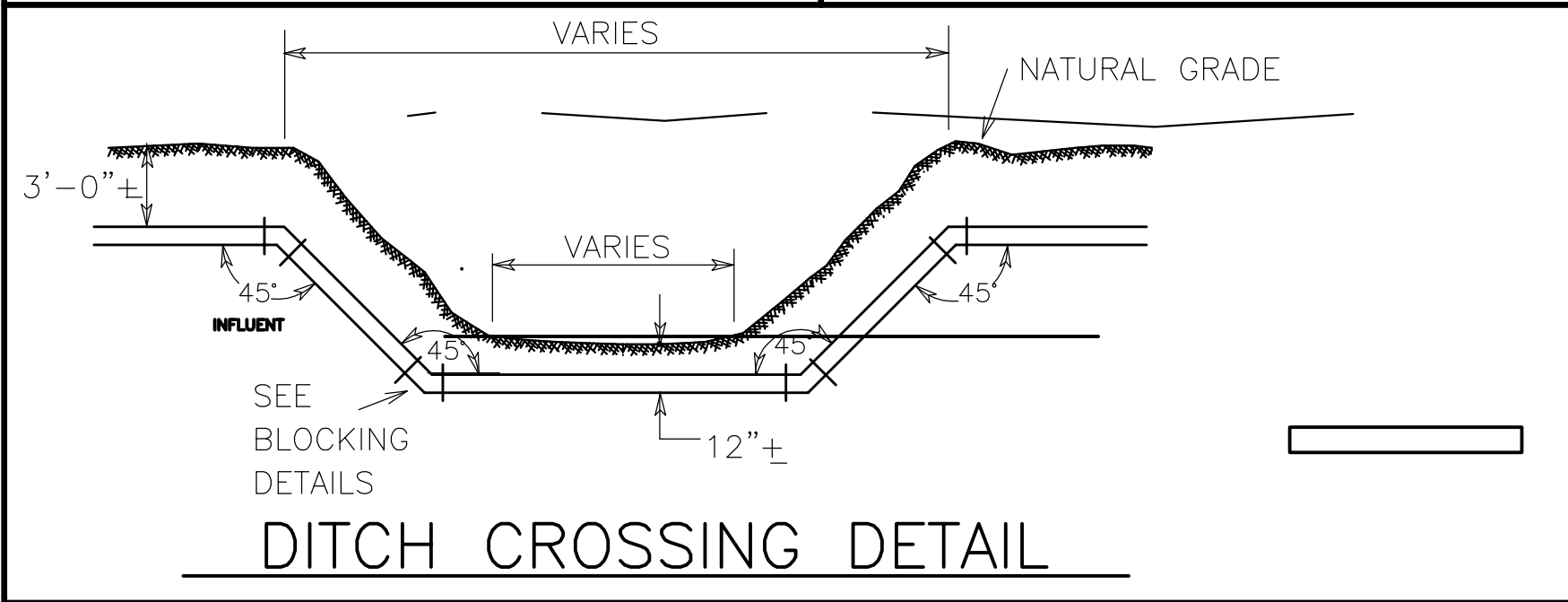
PLAN VIEW - STREET 'B'
Scale 1"=50 ft.



PLAN & PROFILE DEER VALLEY ESTATES PH. I JONESBORO, ARKANSAS FOR DEER VALLEY ESTATES, LLC										Civilogic										ENGINEERS										PLANNERS										SURVEYORS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

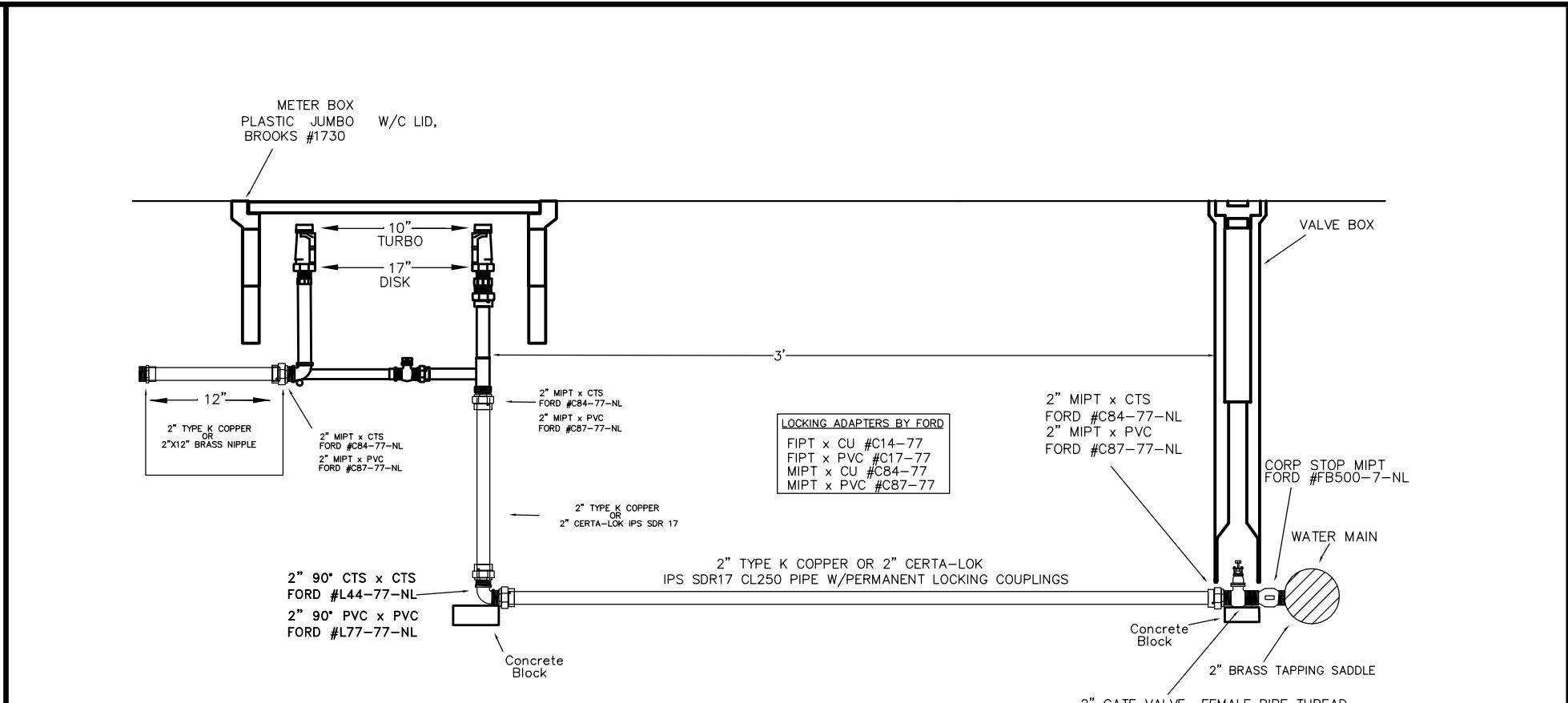


- THRUST BLOCKING DETAIL NOTES:
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
 2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A BRACE BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
 3. PLUGS SHALL BE COVERED WITH PAPER WHEN BLOCKING TO PREVENT BONDING OF CONCRETE.
 4. WHERE SHEAR IS HIGH PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING AS DIRECTED BY ENGINEER.
 5. COVER SHALL BE A MINIMUM OF 3' BELOW NATURAL GRADE.
 6. CLEARANCE FROM OIL & GAS COMPANIES LINES SHALL BE A MINIMUM OF 18".
 7. THRUST BLOCKING DIMENSIONS SHALL BE 150% (THRUST=2 AP SIN : WHERE A=PIPE END AREA, P=PRESSURE PRODUCED BY PUMPING LIQUID, & =ANGLE OF BEND TO BE BLOCKED) AND SOIL BEARING CAPACITY OF 1500 PSF.
 8. ALL CONCRETE SHALL BE 3000 PSI AT 28 DAY STRENGTH.



WATER NOTE:

ALL EXCAVATION FOR THE PURPOSE OF INSTALLING WATER (INCLUDING, BUT NOT LIMITED TO, MAIN LINES, FIRE HYDRANTS, SERVICE LINES AND VALVES) SHALL BE BACKFILLED AND COMPACTED TO THE FOLLOWING STANDARDS: BENEATH CURBS OR DRIVING SURFACES OR DRAINAGE DITCHES, COMPACTION SHALL BE 95% MODIFIED PROCTOR. ALL OTHER BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR. AN ALTERNATIVE TO COMPACTION IS PLACEMENT OF FLOWABLE FILL.



2" METER TAP
WITH MCDONALD METER SETTER #739B712WWFF777

WATER LINE CONSTRUCTION DETAILS DEER VALLEY ESTATES PH. I JONESBORO, ARKANSAS FOR DEER VALLEY ESTATES, LLC	ENGINEERS	PLANNERS	SURVEYORS	Date 02-28-17	State SHOWN	Job No. 117032	Sheet No. 19 of 21	
	ENGINEERS	PLANNERS	SURVEYORS	Section 12	Township 03E	County CRAIGHEAD	Range 19 of 21	
	ENGINEERS	PLANNERS	SURVEYORS	Drawn By RE	Checked by GH	Scale 1"=40'	Job No. 117032	
	ENGINEERS	PLANNERS	SURVEYORS	Drawn By RE	Checked by GH	Scale 1"=40'	Job No. 117032	
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