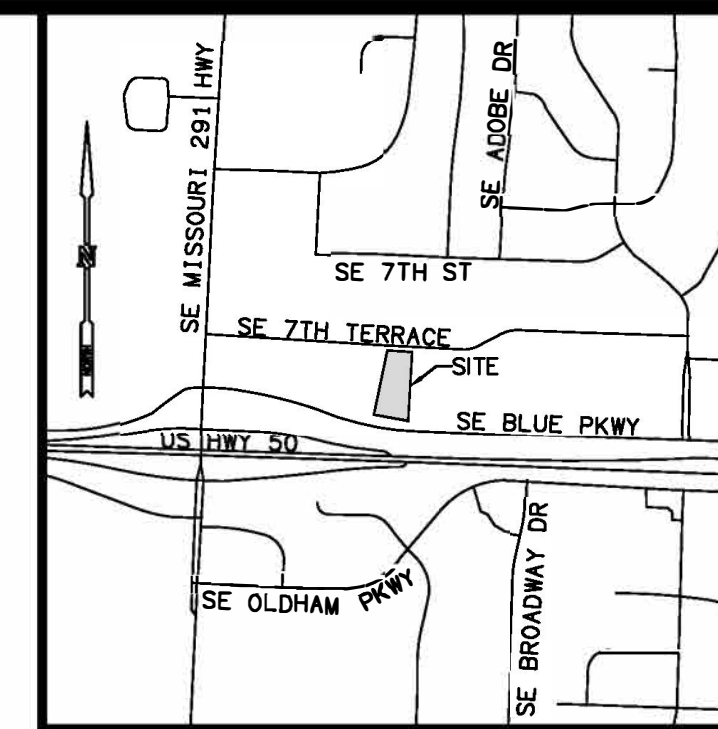
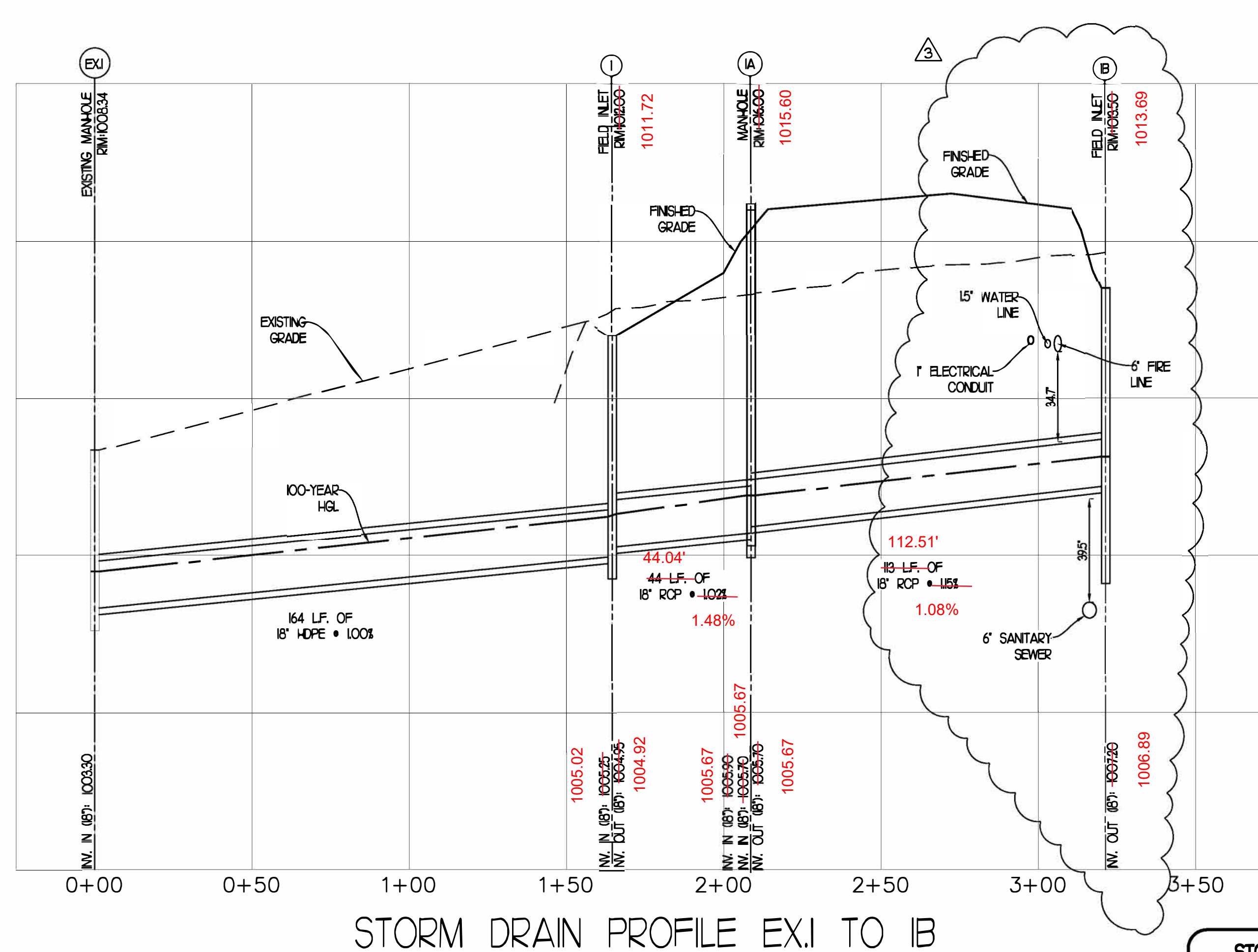
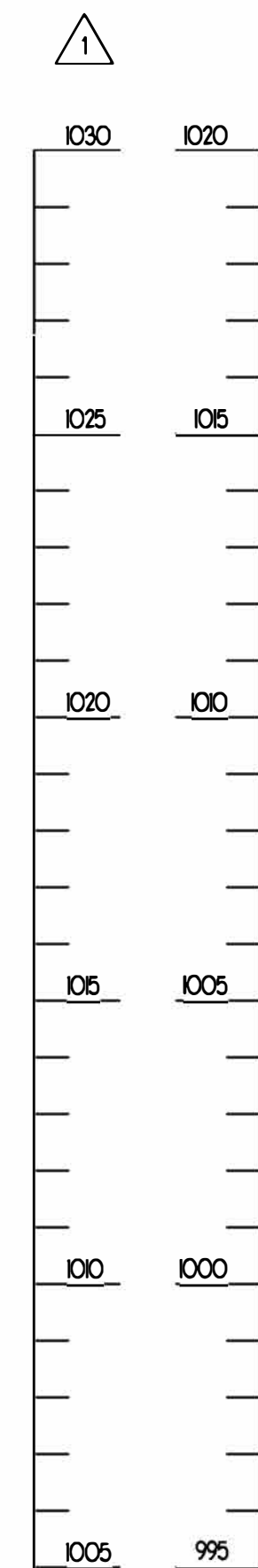
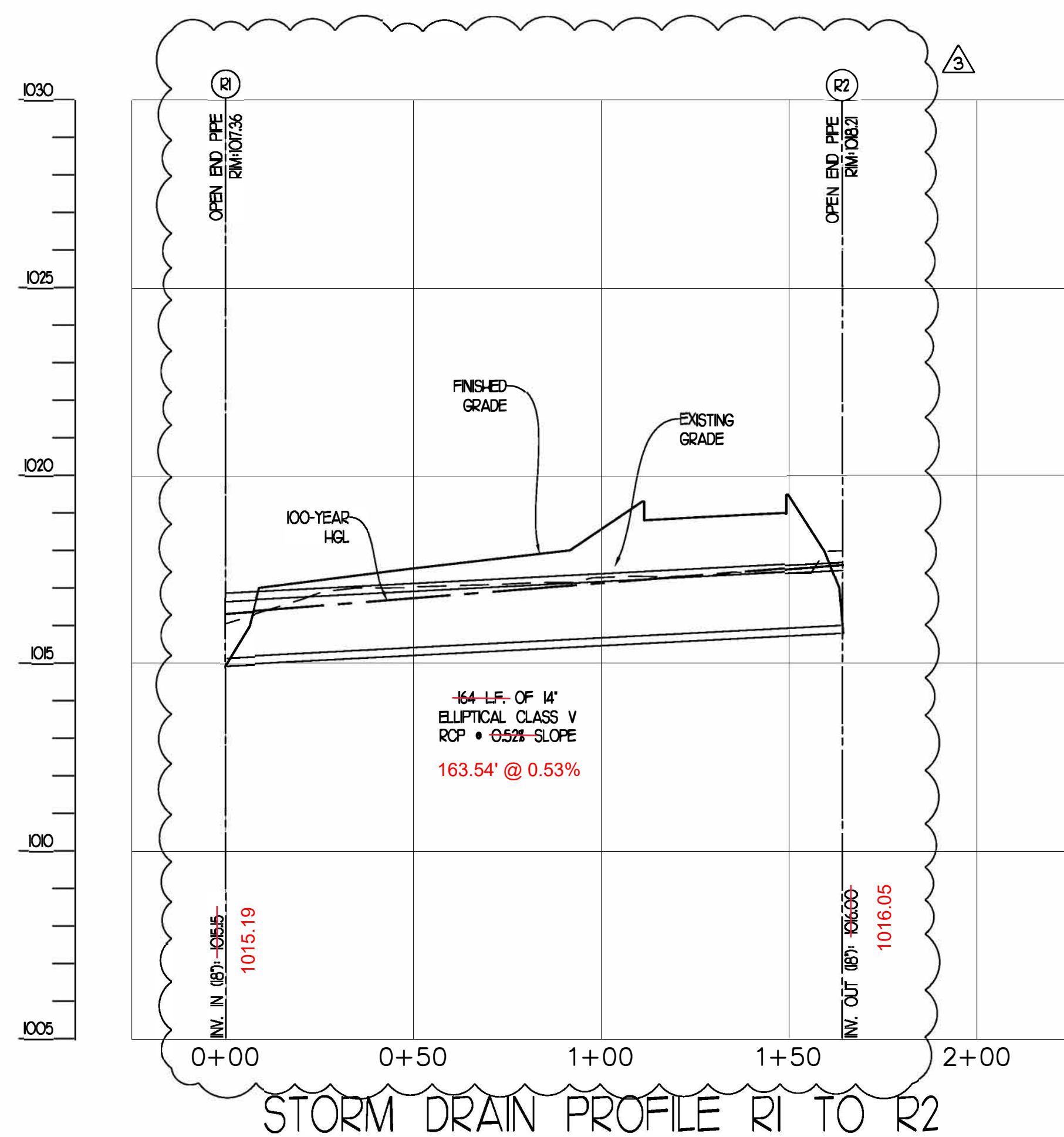
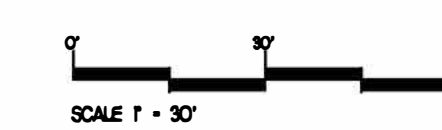
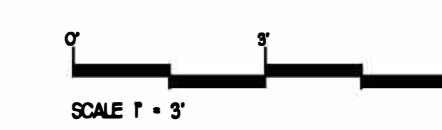




HORIZONTAL SCALE:



VERTICAL SCALE:



WATER TIGHT STORM PIPES:
CONTRACTOR TO ENSURE THAT ALL STORM PIPES ARE WATER TIGHT AND TESTED PER ASTM C902-02.

CONTRACTOR TO ENSURE ALL STORM DRAIN PIPE SHALL HAVE WATER TIGHT JOINTS IN ACCORDANCE WITH ASTM C 361, C443 AND D322.

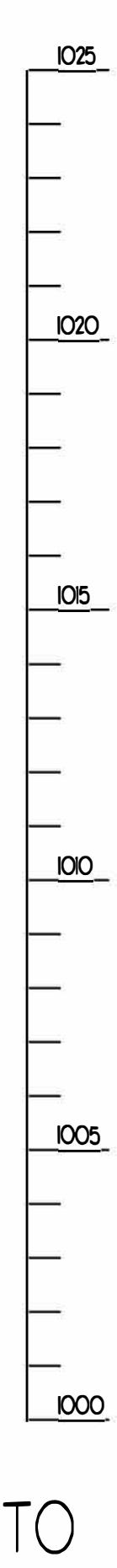
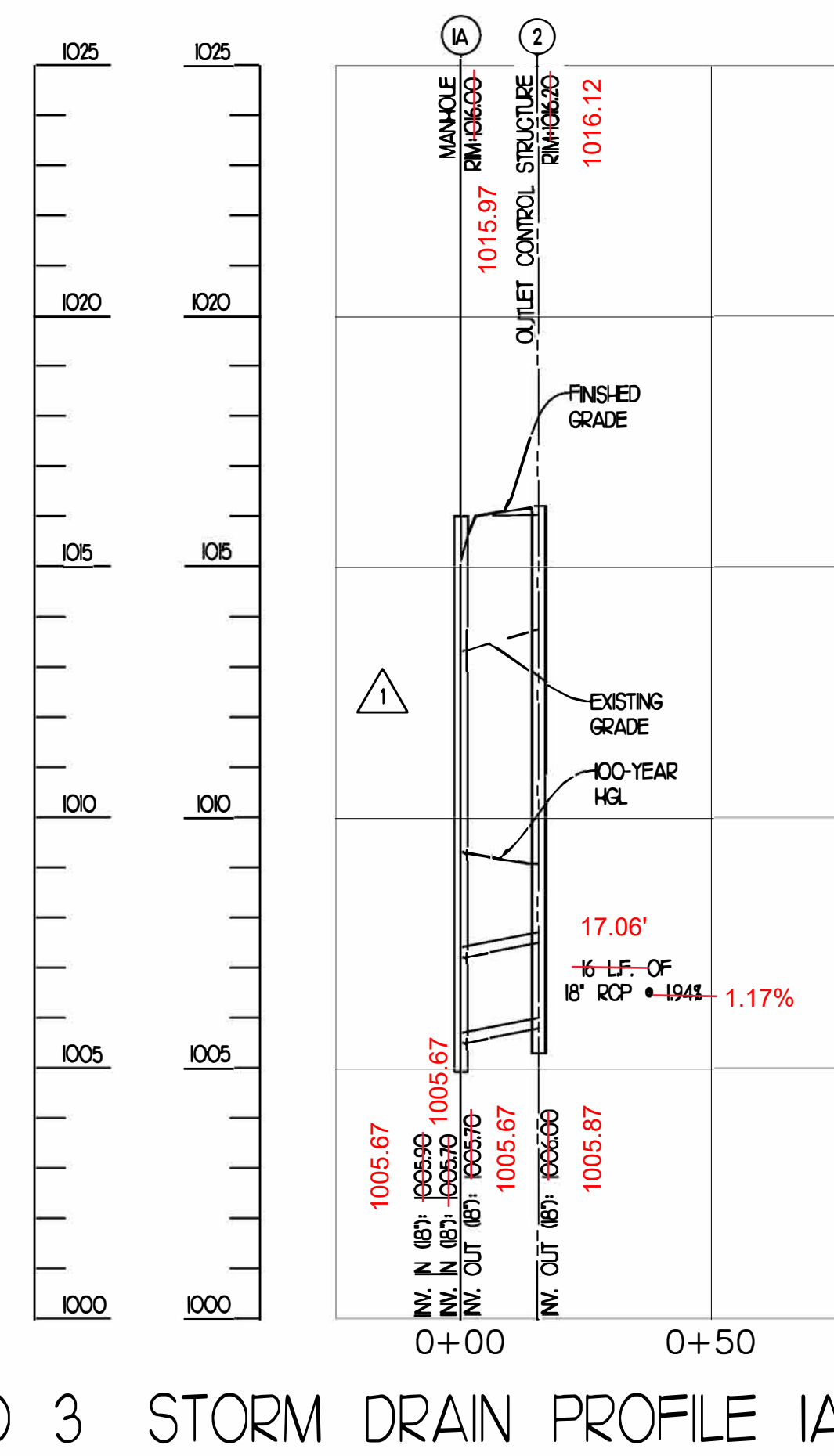
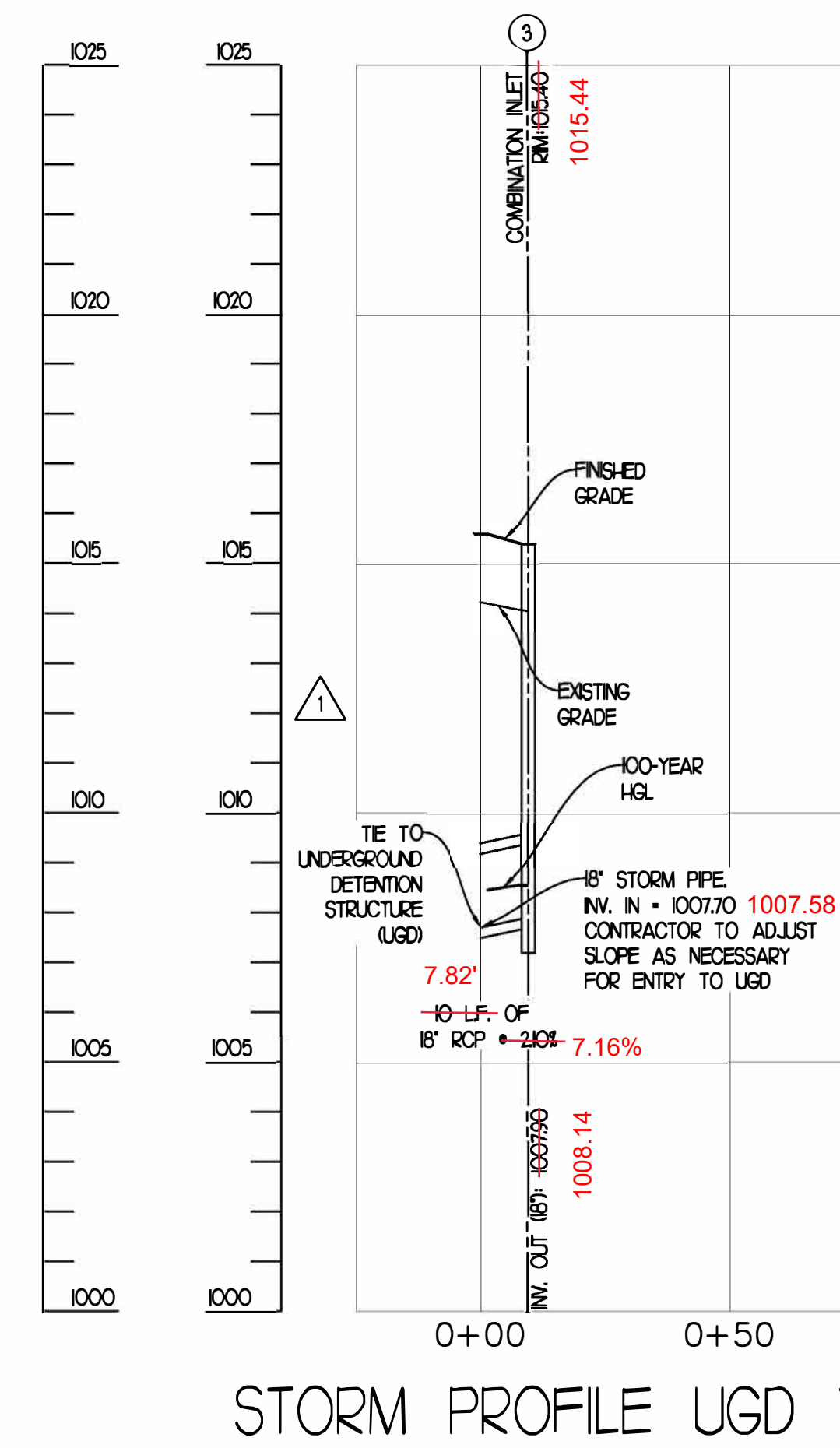
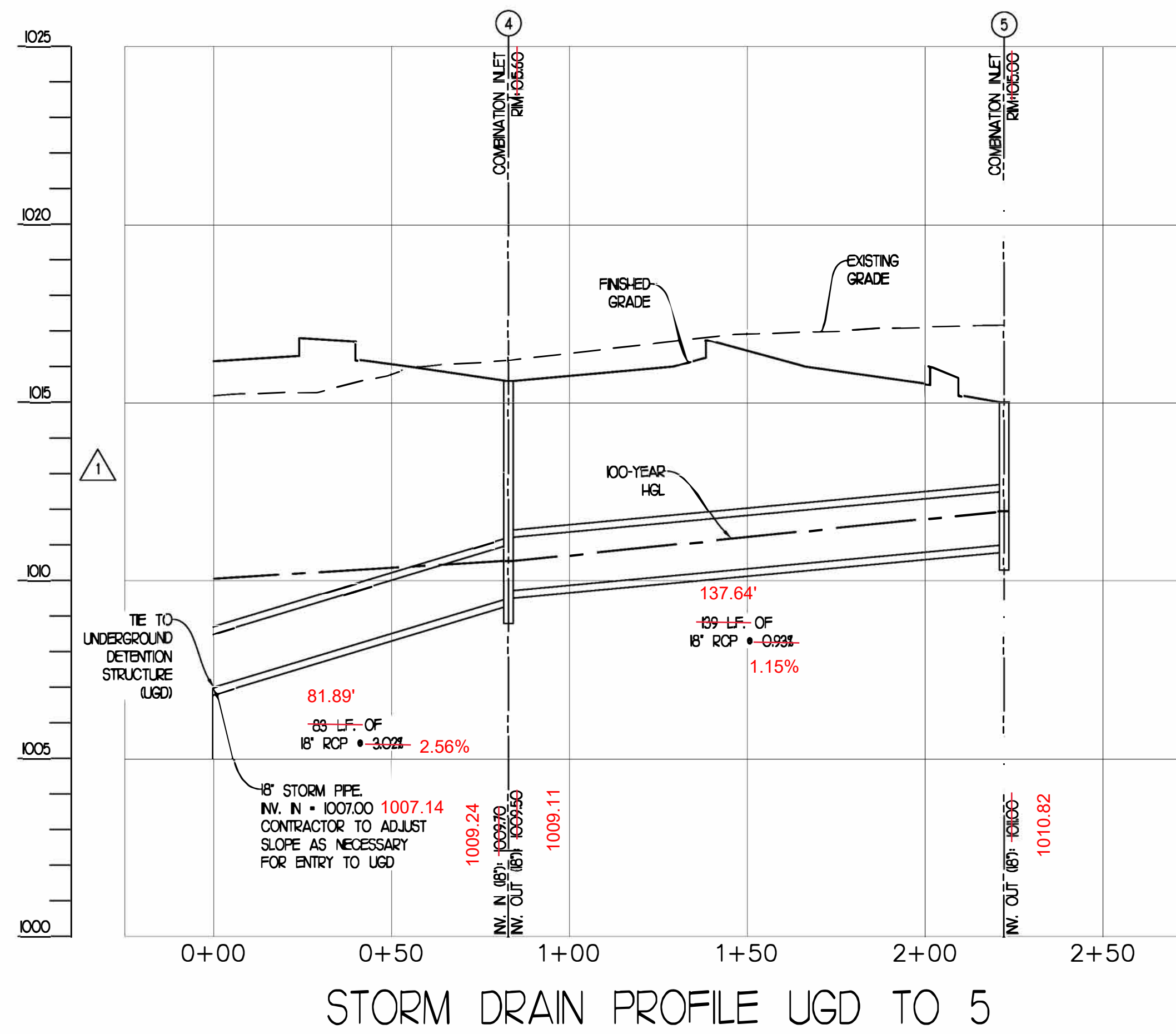
REVISIONS	BY
02/08/2022 REVISION #1	TMB
04/06/2022 SEWER & DISTURB	BAC

FREELAND and KAUFFMAN, INC.
Engineers • Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497
fax 864-233-8916



FOR CONSTRUCTION
Rev 3 Site Rec. 4/6/22
dcc/jw

CALIBER COLLISION
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
CROSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4388 MARSH RIDGE ROAD
CARROLLTON, TX 75010
TEL (214) 614-8262



- STORM DRAIN NOTES**
- ALL HYDRAULIC DATA FOR THE STORM DRAINAGE PIPES ARE BASED ON THE 100-YEAR DESIGN STORM.
 - ALL INLET DIMENSIONS SHALL HAVE A MINIMUM INSIDE DIMENSION OF 4" DIAMETER (CIRCULAR) OR 4"x4" (SQUARED). STRUCTURES SHALL BE UP-SIZED AS NEEDED TO ACCOMMODATE THE CONNECTING PIPE SIZES/ ANGLES.
 - STORM DRAIN PIPE SHALL BE CLASS III, WALL "B" RCP IN ACCORDANCE WITH ASTM C-76, UNLESS NOTED OTHERWISE.
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE) MAY BE USED AS AN ALTERNATE. ALL HDPE PIPE JOINTS, AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATIONS M252 AND M294 TYPE S.
 - PIPE LENGTHS ARE BASED ON HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND USED FOR DESIGN ONLY. CONTRACTOR TO FIELD VERIFY ACTUAL PIPE LENGTHS NEEDED FOR CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM DRAIN WITH THE PROFILES FOR THE STORM DRAIN LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - STORM DRAIN PIPE SHALL HAVE WATER TIGHT JOINTS IN ACCORDANCE WITH ASTM C 361, C443, AND D322.

STORM DRAIN STRUCTURE TABLE				
STR. #	TYPE	RM/THROAT	INV. IN	INV. OUT
1	FIELD INLET	102.00	1005.25 (A)	1004.95 (BX)
1A	MANHOLE	106.00	1005.90 (B) 1005.70 (2)	1005.70 (B)
1B	FIELD INLET	108.50		1007.20 (A)
2	OUTLET CONTROL STRUCTURE	106.30		1006.00 (A)
3	COMBINATION INLET	105.40		1007.90 (UGD)
4	COMBINATION INLET	106.60	1009.70 (5)	1009.50 (UGD)
5	COMBINATION INLET	105.00		1008.00 (A)
EX1	EXISTING MANHOLE	1008.34	1003.30 (B)	
R1	OPEN END PIPE	107.36	106.5 (R2)	
R2	OPEN END PIPE	108.2		106.00 (R)
UGD1	TO UGD	106.60	1007.70 (5)	
UGD2	TO UGD	104.4	1007.00 (A)	

STORM PIPE TABLE					
STORM/DRAIN PIPE	SIZE	LENGTH	SLOPE	INV. IN	INV. OUT
1 - BU	18"	164'	1.00%	1004.95'	1003.30'
1A - 1	18"	44'	1.02%	1005.70'	1005.25'
1B - 1A	18"	15'	1.58%	1007.20'	1005.90'
2 - 1A	18"	15'	1.94%	1006.00'	1005.70'
3 - UGD1	18"	10'	2.03%	1007.90'	1007.70'
4 - UGD2	18"	83'	3.02%	1009.50'	1007.00'
5 - 4	18"	199'	0.93%	1008.00'	1007.70'
R2 - R1	14" BLUP	164'	0.52%	1006.00'	1005.5'

DRAINAGE BASIN:
MISSOURI RIVER WATERSHED

RECEIVING WATERS:
EAST FORK LITTLE BLUE RIVER,
TRIBUTARY OF THE BLUE RIVER -
MISSOURI RIVER WATERSHED

STORM PROFILES

DRAWN
BAC
CHECKED
TMB
DATE
04/06/2022
SCALE