

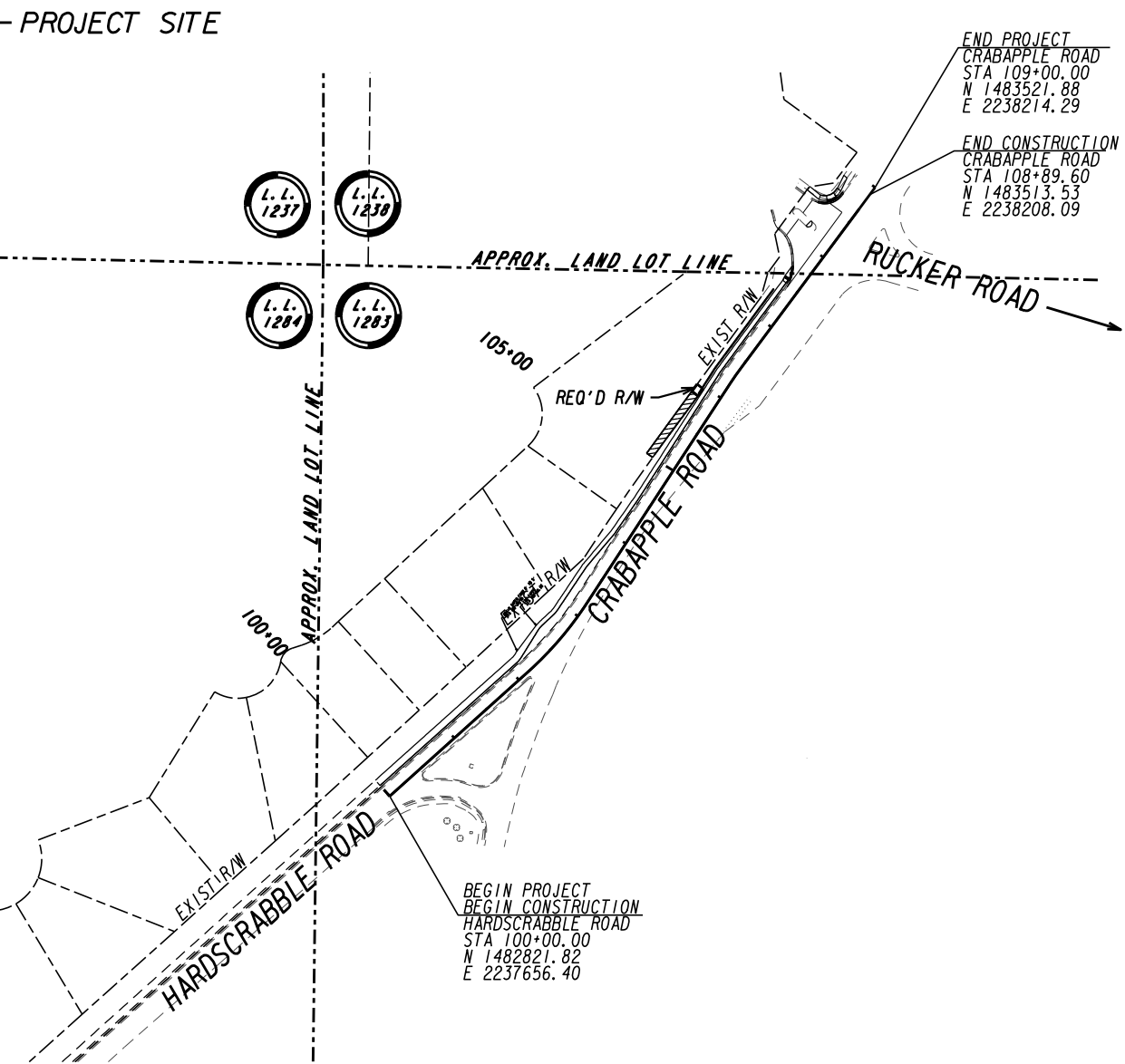
LOCATION SKETCH

SPEED LIMIT: 40 MPH
SCHOOL ZONE SPEED LIMIT: 25 MPH

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

CITY OF ROSWELL TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED PHASE 2 - HARDSCRABBLE ROAD SIDEWALK FROM CRABAPPLE ROAD TO RUCKER ROAD



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



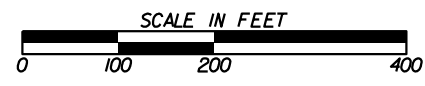
CITY OF ROSWELL
DEPARTMENT OF TRANSPORTATION
38 HILL STREET, SUITE 235
ROSWELL, GA 30075
770-594-6420

PREPARED BY: _____
DESIGN



THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

LENGTH OF PROJECT	COUNTY No.
	Project No.
MILES	
NET LENGTH OF ROADWAY	0.17
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.17
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.17



DATE	CHIEF ENGINEER
PLANS COMPLETED 10-5-2018	
REVISIONS	

GENERAL NOTES

1. A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT.
2. ALL CONSTRUCTION WILL BE ACCOMPLISHED UNDER TRAFFIC UNLESS SPECIFIED OTHERWISE.
3. ALL TRAFFIC CONTROL MUST FOLLOW MUTCD PART 6 "TEMPORARY TRAFFIC CONTROL."
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY RESULTING BROKEN WATER, SANITARY SEWER PIPE OR OTHER UTILITIES DURING CONSTRUCTION.
5. ALL EXISTING WATER, SANITARY SEWER PIPE AND OTHER UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL DISPOSE OF ALL GUARDRAIL, WOOD STRAIN POLES, AND SIGNS ONCE THEY HAVE BEEN REMOVED. BURIAL OF THESE ITEMS WILL NOT BE ALLOWED WITHIN THE PROJECT LIMITS.
7. PAYMENT FOR ALL REMOVALS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
8. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND, I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:
 - ASPHALT - 1.5" ASPH CONC 9.5mm SUPERPAVE (165 LB/SY)
GRADED AGGREGATE BASE, 6"
 - CONCRETE - RESIDENTIAL DRIVEWAY CONCRETE, 6" THICK
COMMERCIAL DRIVEWAY CONCRETE, 8" THICK
9. WARNING SURFACES FOR RAMPS SHALL BE FEDERAL STANDARD 595 COLOR FS 20109 (DARK RED IN COLOR), CAST-IN-PLACE DETECTABLE WARNING TILE.
10. TOTAL DISTURBED AREA = 0.22 ACRES
TOTAL PROJECT AREA = 0.58 ACRES

STANDARD SIGNS GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), LATEST EDITION, AND ANY APPLICABLE CITY OF ROSWELL STANDARDS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. ALL SIGNS SHALL HAVE TYPE II RETROREFLECTIVE SHEETING EXCEPT SCHOOL RELATED SIGNS, WITH THEIR REQUIRED PLAQUES AND ADVISORY NAME BLADES, WHICH SHALL HAVE FLUORESCENT YELLOW/GREEN COLOR AND TYPE II SHEETING.
6. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
7. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
8. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE, SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
9. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
10. ALL SIGNS SHALL BE ON 5052-H38 FLAT ALUMINUM ALLOY (0.080 GAUGE THICKNESS) WITH ROUNDED CORNERS. ALL SIGNS SHALL MEET OR EXCEED ASTM D 4956 SPECIFICATIONS FOR RETROREFLECTIVITY. SIGN COLORS SHALL BE MATCHED VISUALLY AND BE WITHIN THE COLOR TOLERANCE LIMITS SHOWN ON THE APPROPRIATE HIGHWAY COLOR TOLERANCE CHARTS ISSUED BY THE FHWA UTILIZING THE INSTRUCTIONS THEREON.

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
AT&T	COMMUNICATIONS	JOE ORDWAY (706) 701-6078	24-001 to 24-003
AGL RESOURCES	NATURAL GAS	ROBERT STACHLER rstachle@southernco.com	24-001 to 24-003
COBB EMC	ELECTRICITY	NATHAN SUTTON (678) 898-0455	24-001 to 24-003
COMCAST	COMMUNICATIONS	CHRISTOPHER BATES Christopher_Bates2@comcast.com	24-001 to 24-003
CHARTER COMMUNICATION	COMMUNICATIONS	JIMMY PRICE (404) 597-2712	24-001 to 24-003
FULTON COUNTY	WATER & SEWER	ABUL HOWLADER (404) 612-7537	24-001 to 24-003
GEORGIA POWER	ELECTRICITY	JOHN GAY (404)291-0622	24-001 to 24-003
ROSWELL D. O. T.	TRAFFIC SIGNALS	DERRICK CROWDER (678) 639-7546	24-001 to 24-003

STANDARD SIGNS GENERAL NOTES (CONT'D)

11. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/POSTS/PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC CONTROL SIGNS THROUGHOUT CONSTRUCTION. THIS INCLUDES CLEANING AND REPLACEMENT OF EXISTING SIGNS SHOULD THESE SIGNS NEED CLEANING, REPAIR OR REPLACEMENT DURING CONSTRUCTION.
14. ALL SIGNS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.

UTILITIES GENERAL NOTES

1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXISTING WATER AND SEWER LINES SHALL BE PERFORMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

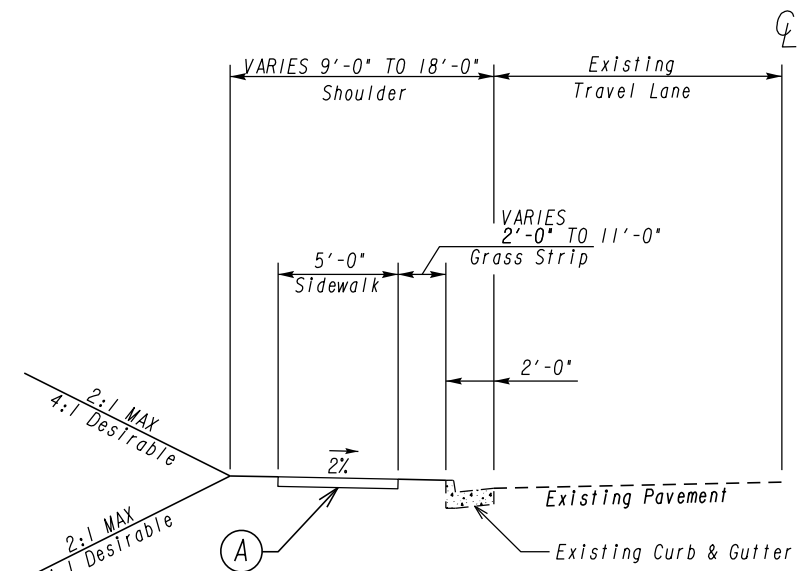


REVISION DATES

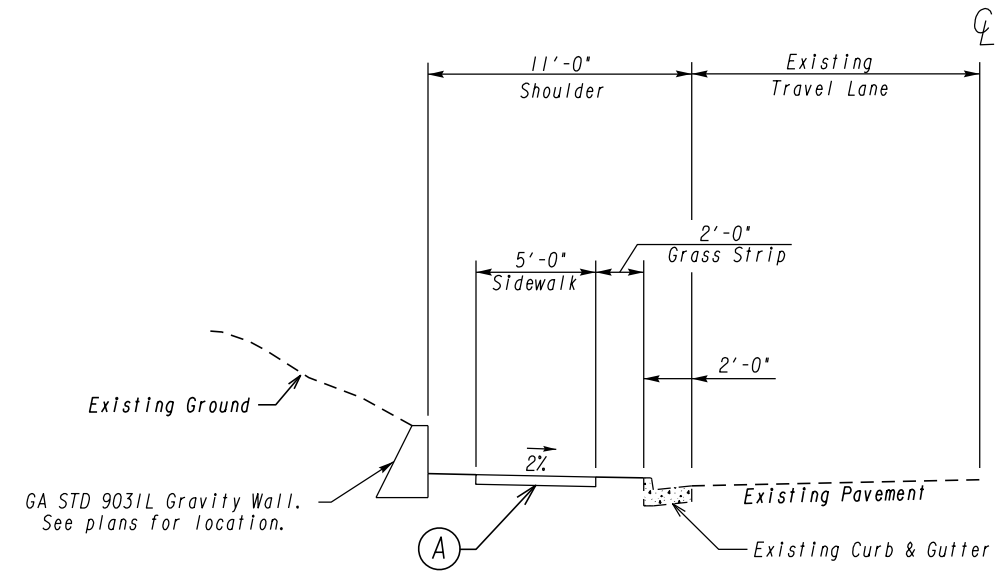
GENERAL NOTES

PHASE 2-HARDSCRABBLE RD
AT CRABAPPLE RD/RUCKER RD

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BACKCHECKED:	DATE:	04-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

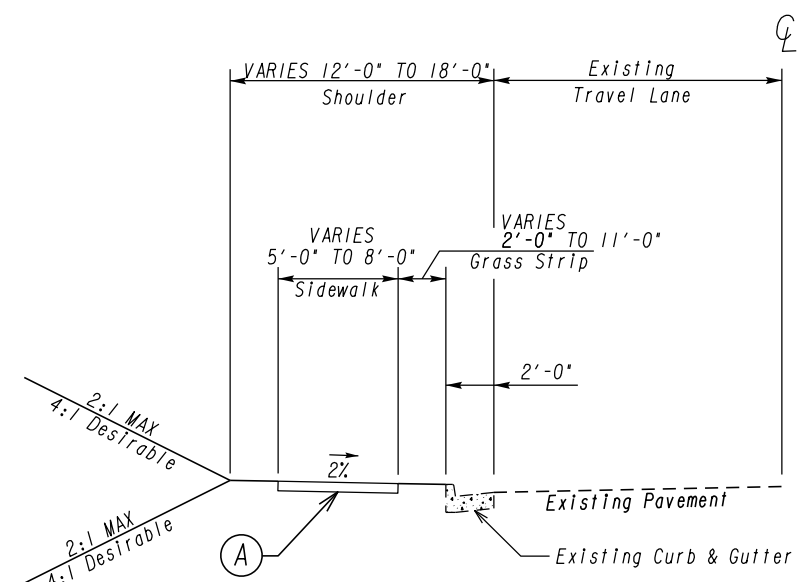


TYPICAL SECTION 1
STA 102+60.38 TO STA 105+90.00
STA 107+38.00 TO STA 108+89.60



TYPICAL SECTION 3
STA 105+90.00 TO STA 107+38.00

(A) CONCRETE SIDEWALK, 6"



TYPICAL SECTION 2
STA 100+00.00 TO STA 102+60.38



REVISION DATES		TYPICAL SECTIONS	
		PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

TRAFFIC CONTROL	
TOTAL	LUMP SUM

GRADING COMPLETE	
TOTAL	LUMP SUM

CONC SIDEWALK - 6 IN.	
TOTAL	564 SY

CONCRETE CURB & GUTTER 6" X 24" TP 2, STD. 9032-B	
TOTAL	55 LF

SAWED JOINTS IN EXIST PAVEMENT - ASPHALT	
TOTAL	53 LF

CLASS "B" CONCRETE BASE OR WIDENING	
TOTAL	3 CY

CONCRETE MEDIAN, 7-1/2 IN	
TOTAL	4 SY

RUBBLE MASONRY, RETAINING WALL	
TOTAL	30 SY

SURFACING QUANTITIES					
ITEMS	UNIT	ROADWAY	DRIVEWAYS	TEMPORARY PAVEMENT	TOTALS
RECYCLED ASPH CONC, 9.5MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TON		26		26
BITUM TACK COAT	GAL		7		7
WILL ASPH CONC PVMT, 1 1/4 IN DEPTH *AS DIRECTED BY ENGINEER	SY		100		100

ADJUST WATER VALVE BOX TO GRADE	
TOTAL	2 EA

GRADED AGGREGATE BASE CRS	
TOTAL	4 TON

CONSTRUCT & REMOVE INLET SEDIMENT TRAP	
	6 EA

MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	
	405 LF

MAINTENANCE OF INLET SEDIMENT TRAP	
	6 EA

TEMPORARY SILT FENCE TYPE C	
	735 LF

SOD	
	291 SY

NOTE: LOCATION TO BE DETERMINED BY ENGINEER.

GRASSING			AGR LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	MULCH
ITEM	UNIT	QUANTITY	TON	TON	LB	TON
PERMANENT GRASSING	ACRE	0.1	0.4	0	53	0.4
TEMPORARY GRASSING	ACRE	1	3.6	1	0	3.6
TOTAL			4	1	53	4

*APPROXIMATELY 1 ACRES OF GRASSING WILL BE REQUIRED (FOR ESTIMATING PURPOSES ONLY). ACRES COMPUTED FROM GRASSING DETAIL DIMENSIONS.

EROSION CONTROL MATS	
	140 SY



REVISION DATES		SUMMARY QUANTITIES	
		PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

<i>RESET EXISTING SIGN & POLE</i>	
TOTAL	2 EA

<i>TRAFFIC SIGNAL INSTALLATION</i>	
TOTAL	LUMP

<i>DIRECTIONAL BORE</i>	
TOTAL	50 LF

<i>TRAFFIC DETECTION LOOP SYSTEM</i>	
TOTAL	1 EA

<i>LOOP DETECTOR</i>	
TOTAL	1 EA

<i>THERMOPLASTIC PAVEMENT MARKING ARROWS</i>		
DESCRIPTION	UNIT	QUANTITY
TYPE 2	EA	1
TYPE 3	EA	1

NOTE: SEE PLANS FOR LOCATION.

<i>THERMOPLASTIC SOLID TRAFFIC STRIPE</i>		
DESCRIPTION	UNIT	QUANTITY
5" SOLID WHITE	LF	98
5" SOLID YELLOW	LF	24
5" SKIP WHITE	LF	92
24" SOLID WHITE	LF	30
8" SOLID WHITE	LF	393

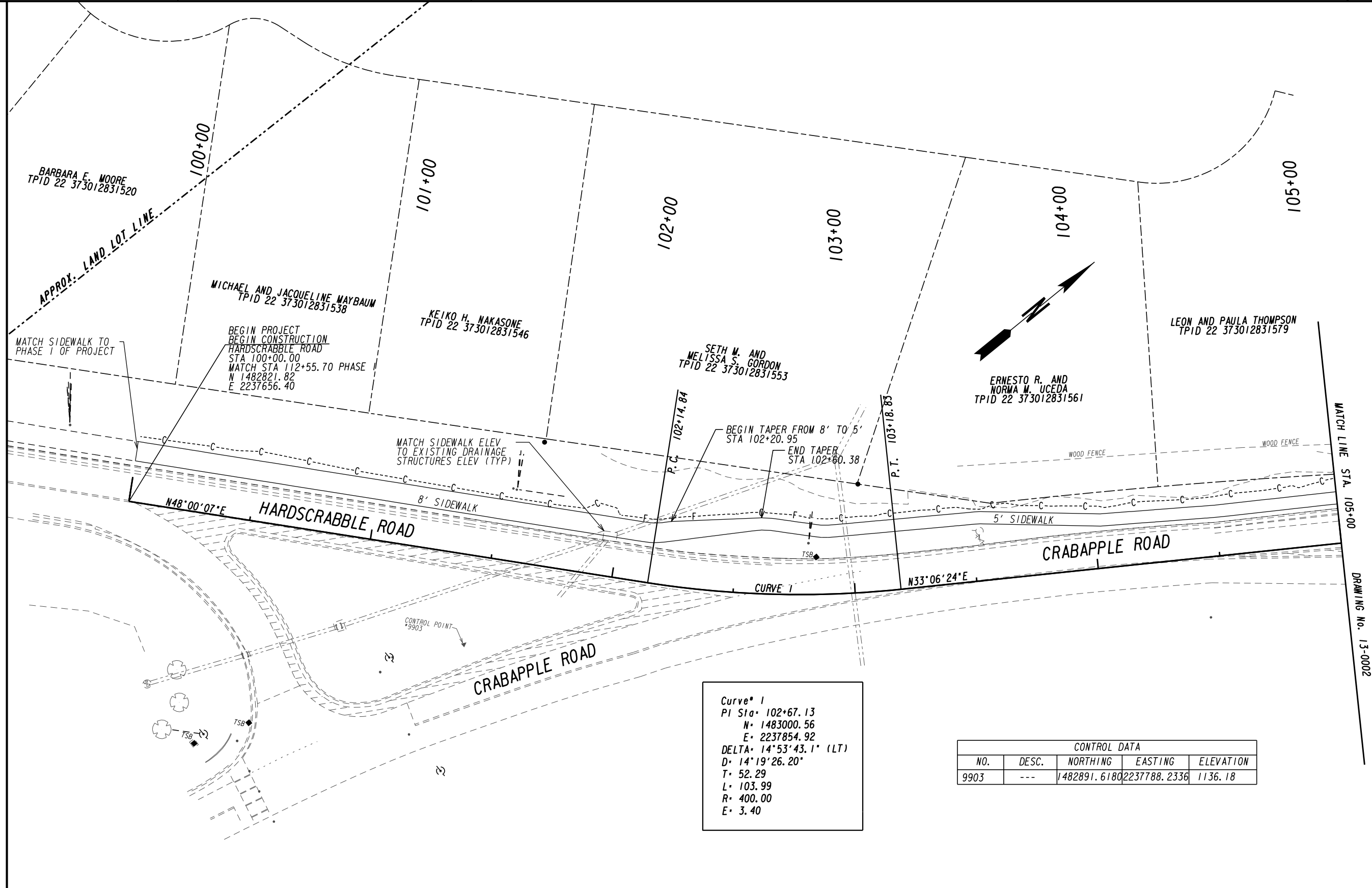
<i>THERMOPLASTIC TRAFFIC STRIPING</i>		
DESCRIPTION	UNIT	QUANTITY
WHITE	SY	13
YELLOW	SY	11



REVISION DATES		

SUMMARY QUANTITIES
PHASE 2-HARDSCRABBLE RD
AT CRABAPPLE RD/RUCKER RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 1
 PI Sta. 102+67.13
 N. 1483000.56
 E. 2237854.92
 DELTA. 14°53'43.1" (LT)
 D. 14°19'26.20"
 T. 52.29
 L. 103.99
 R. 400.00
 E. 3.40

CONTROL DATA				
NO.	DESC.	NORTHING	EASTING	ELEVATION
9903	---	1482891.6180	2237788.2336	1136.18

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

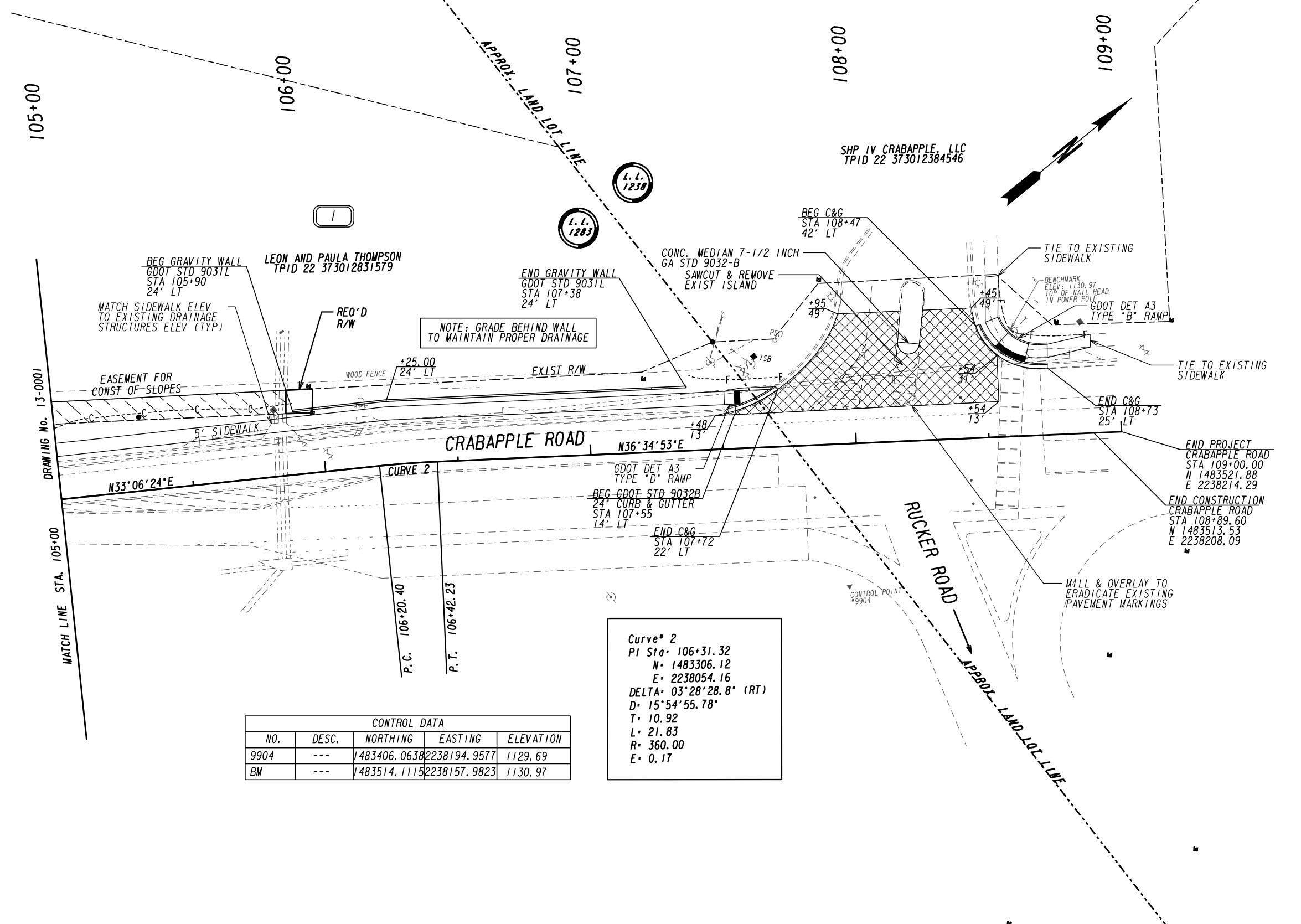
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 ---C--- END LIMIT OF ACCESS.....ELA
 ---F--- LIMIT OF ACCESS
 ---H--- REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

CONSTRUCTION PLAN
 PHASE 2-HARDSCRABBLE RD
 AT CRABAPPLE RD/RUCKER RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CONTROL DATA				
NO.	DESC.	NORTHING	EASTING	ELEVATION
9904	---	1483406.0638	2238194.9577	1129.69
BM	---	1483514.1115	2238157.9823	1130.97

Curve 2
 PI Sta. 106+31.32
 N= 1483306.12
 E= 2238054.16
 DELTA= 03°28'28.8" (RT)
 D= 15°54'55.78"
 T= 10.92
 L= 21.83
 R= 360.00
 E= 0.17

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

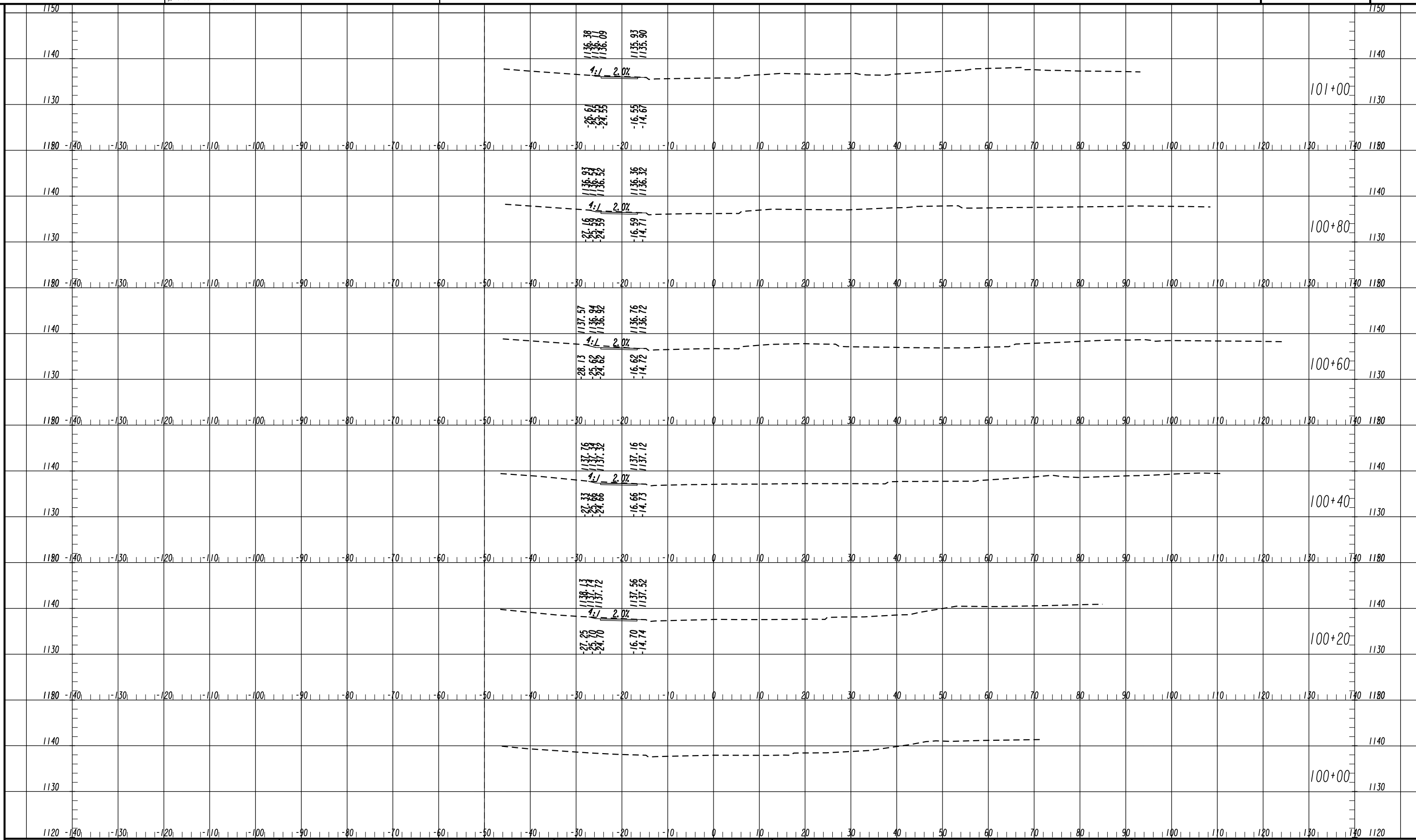
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 ---LIMIT OF ACCESS
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REVISION DATES	

CONSTRUCTION PLAN
 PHASE 2-HARDSCRABBLE RD
 AT CRABAPPLE RD/RUCKER RD

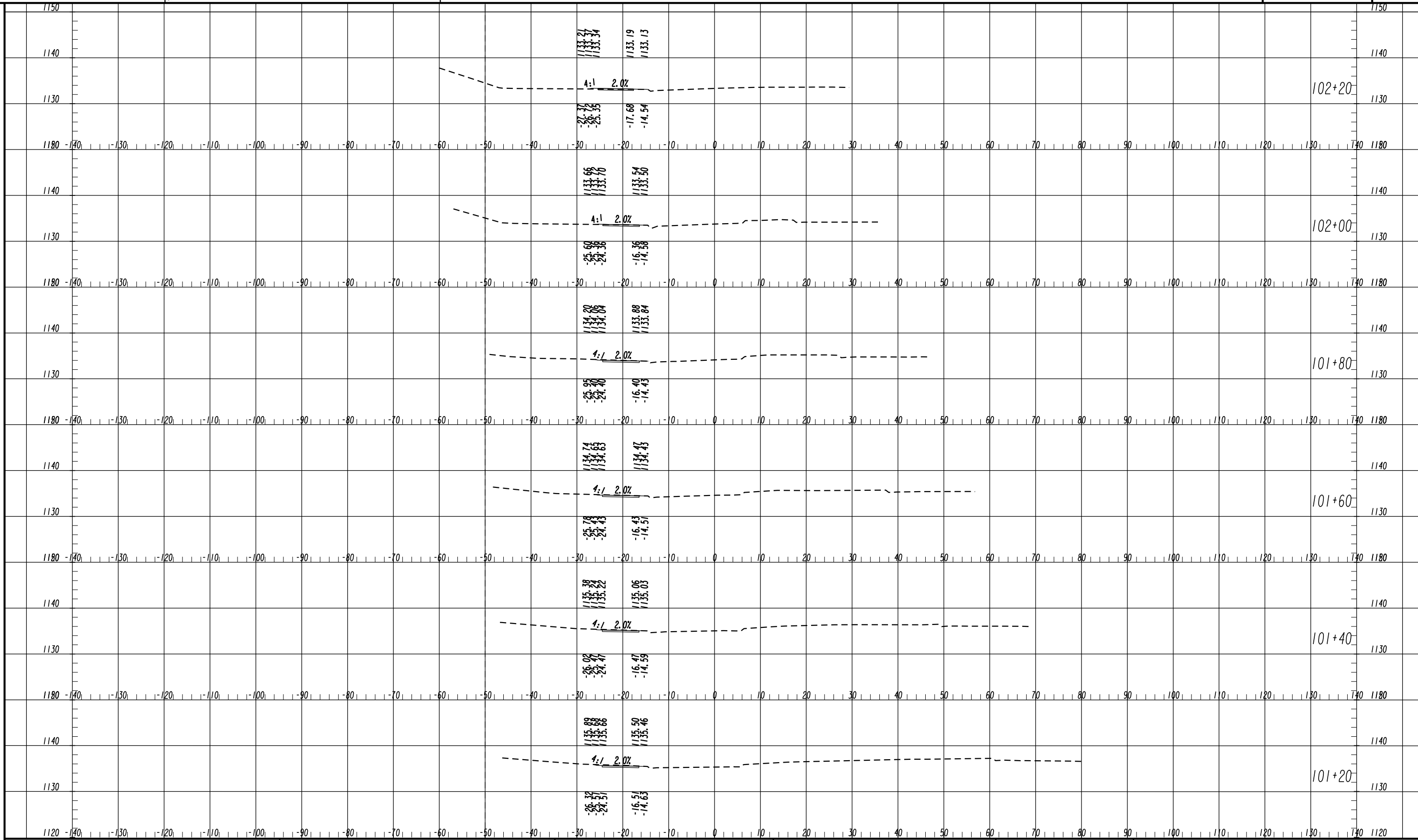
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SCALE
1 INCH = 10 FT VERTICAL
1 INCH = 10 FT HORIZONTAL

REVISION DATES	

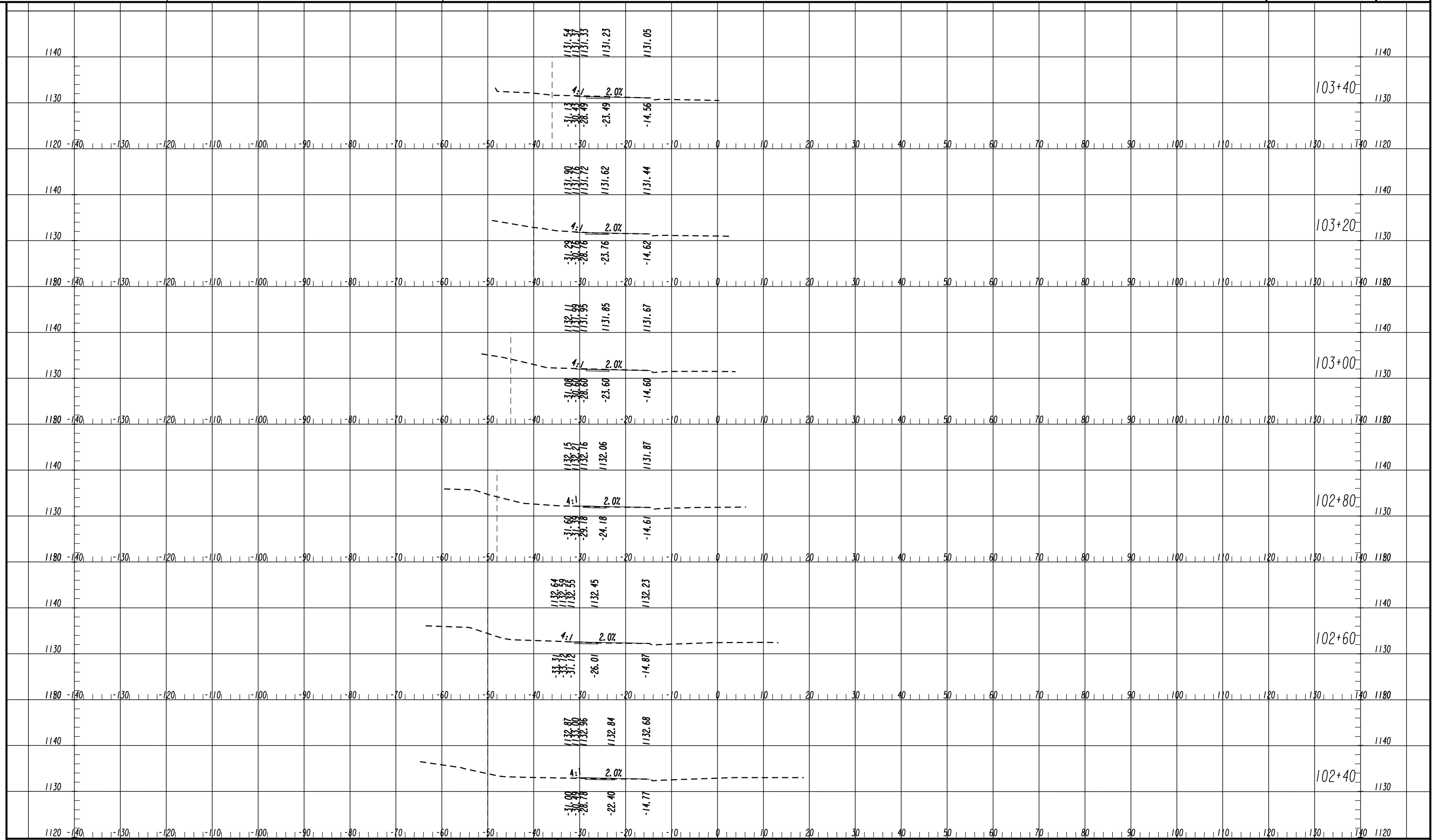
CROSS SECTIONS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
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BACKCHECKED:	DATE:	23-0001
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VERIFIED:	DATE:	



SCALE
1 INCH = 10 FT VERTICAL
1 INCH = 10 FT HORIZONTAL

REVISION DATES	

CROSS SECTIONS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
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VERIFIED:	DATE:	



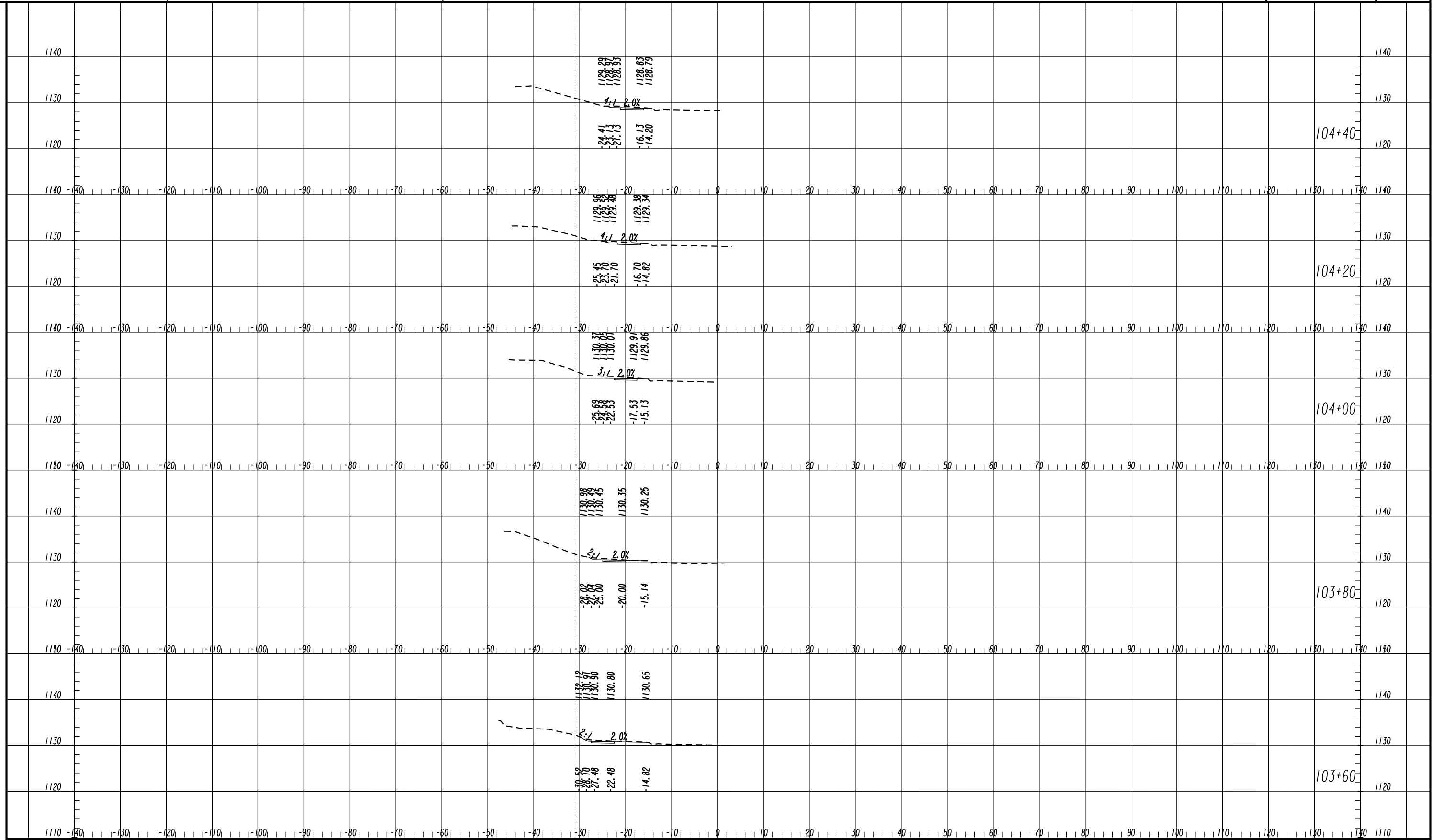
SCALE
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REVISION DATES

NO.	DATE	DESCRIPTION

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 AT CRABAPPLE RD/RUCKER RD

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BACKCHECKED:	DATE:	23-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



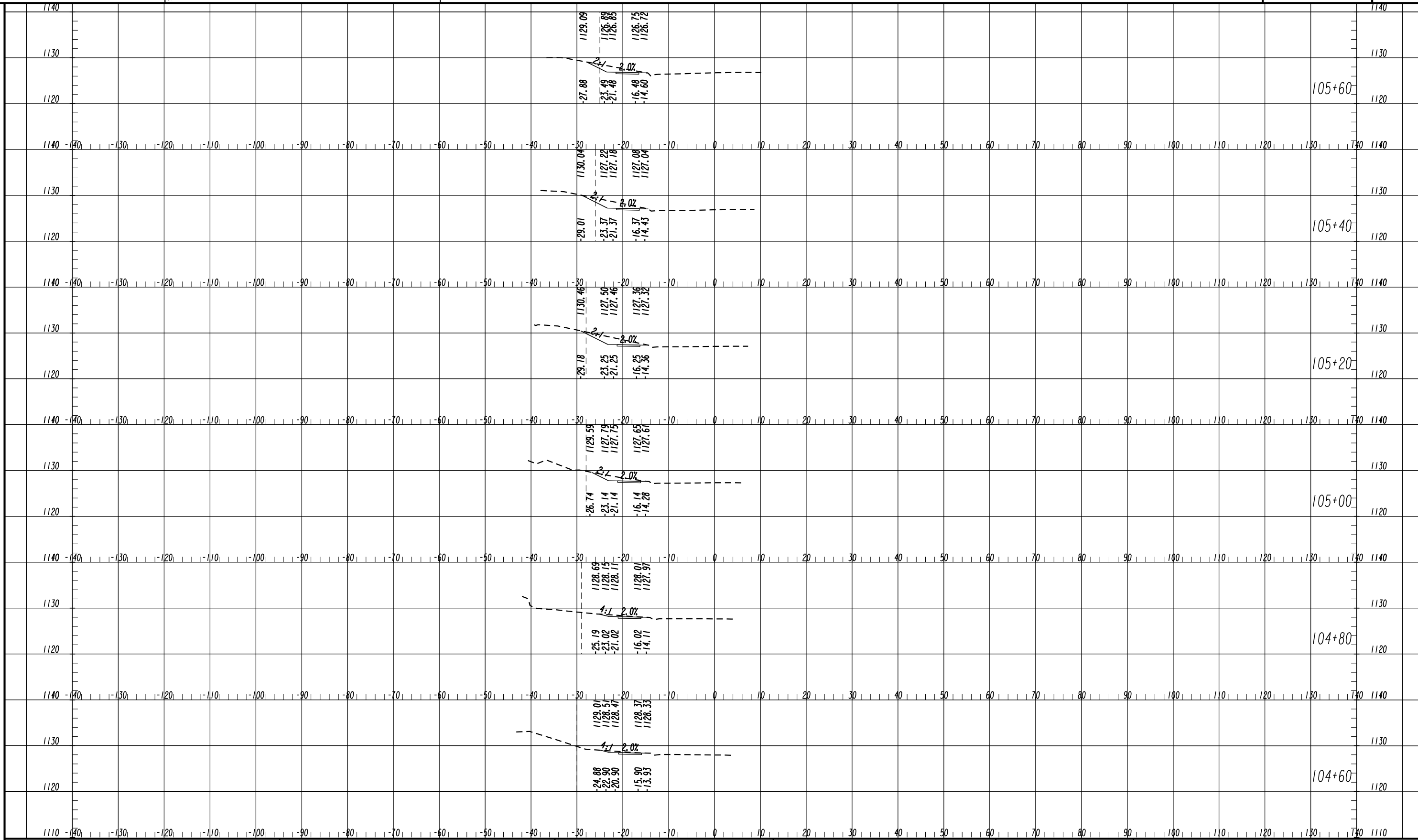
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REVISION DATES

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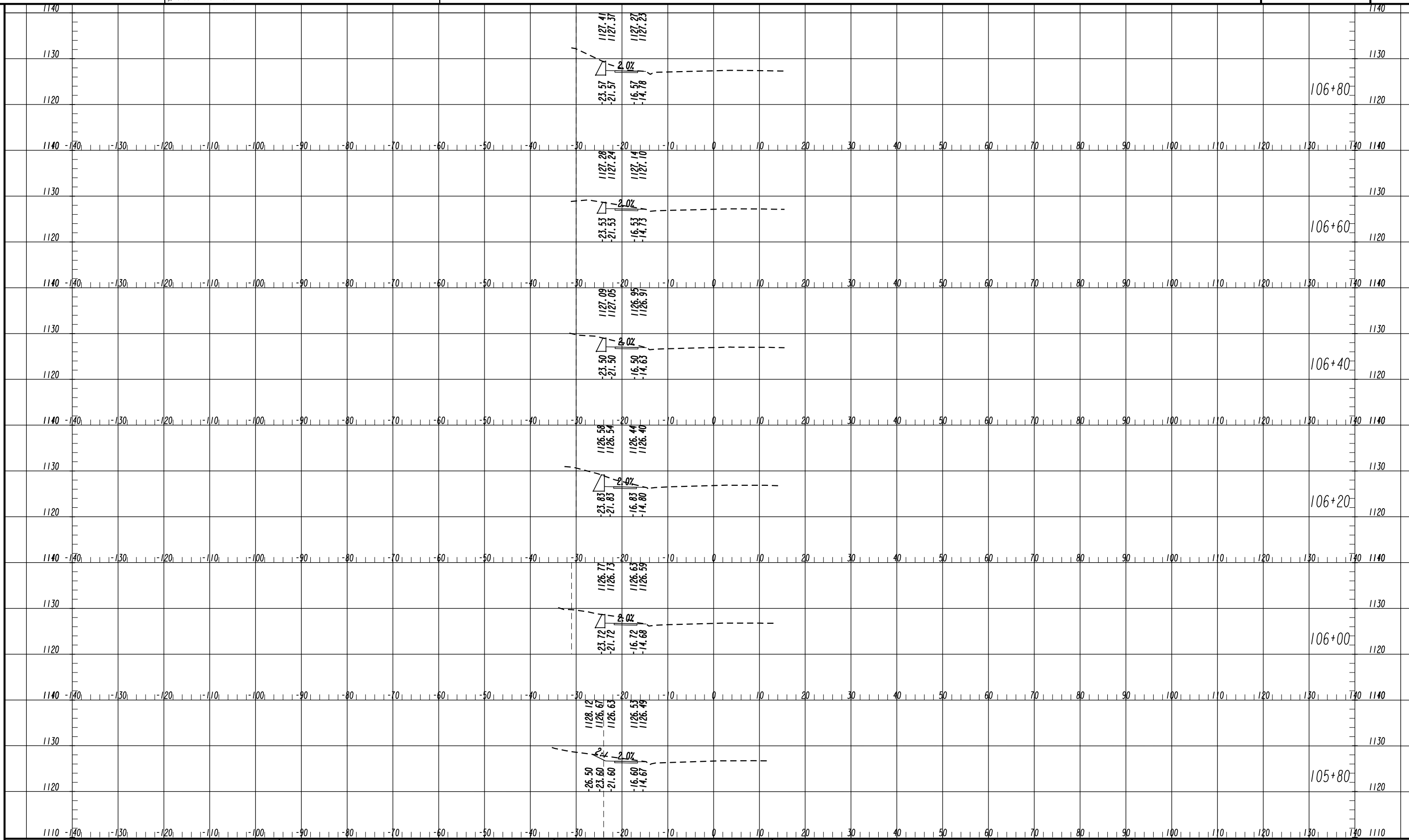
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 PHASE 2-HARDSCRABBLE RD
 AT CRABAPPLE RD/RUCKER RD

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CORRECTED:	DATE:	
VERIFIED:	DATE:	



SCALE
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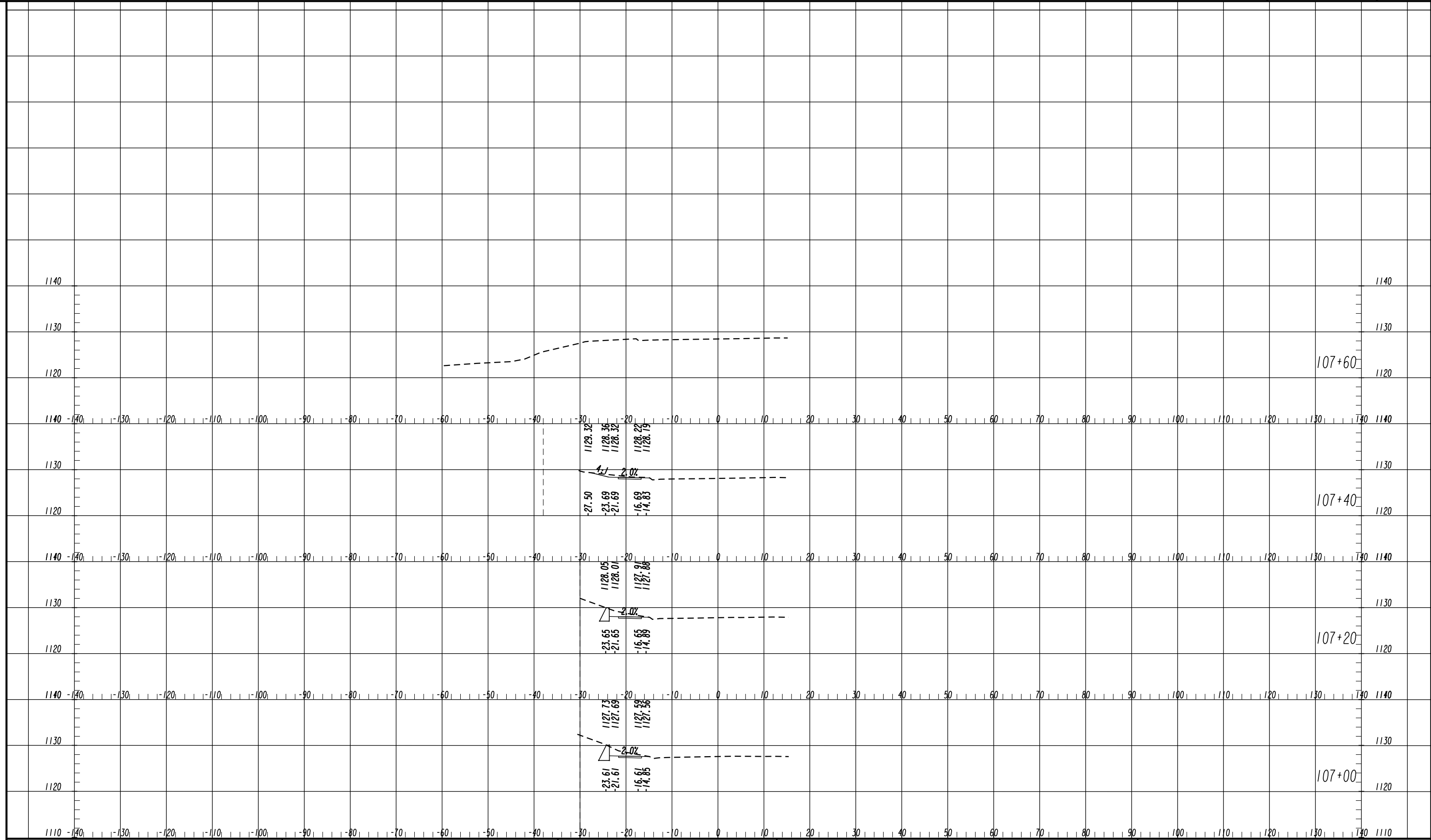
REVISION DATES		CROSS SECTIONS	
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BACKCHECKED:	DATE:	23-0005	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



SCALE
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1 INCH = 10 FT HORIZONTAL

REVISION DATES	

CROSS SECTIONS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
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BACKCHECKED:	DATE:	23-0006
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VERIFIED:	DATE:	

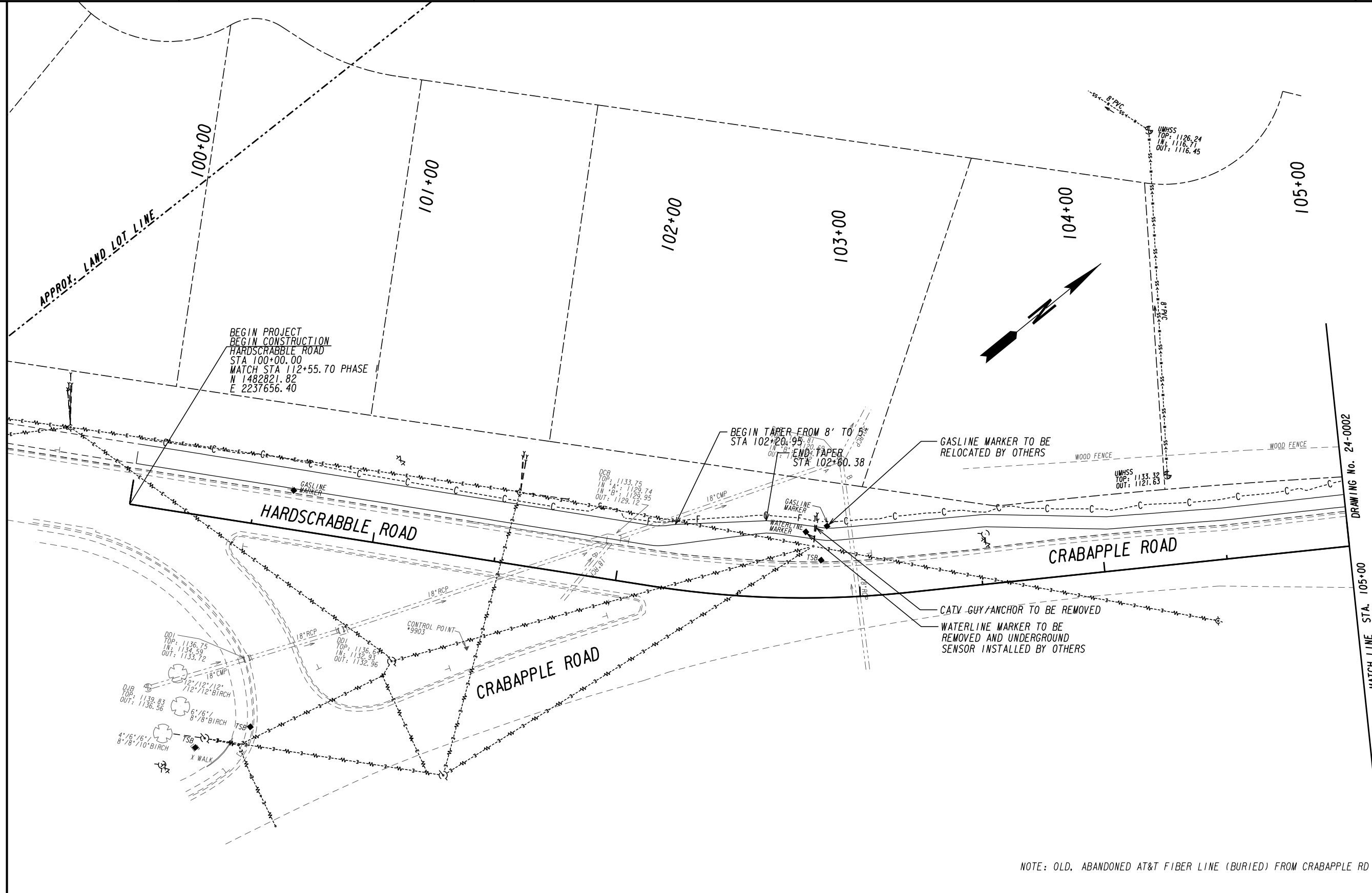


SCALE
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1 INCH = 10 FT HORIZONTAL

REVISION DATES

CROSS SECTIONS
PHASE 2-HARDSCRABBLE RD
AT CRABAPPLE RD/RUCKER RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



BEGIN PROJECT
 BEGIN CONSTRUCTION
 HARDCRABBLE ROAD
 STA 100+00.00
 MATCH STA 112+55.70 PHASE
 N 1482821.82
 E 2237656.40

BEGIN TAPER FROM 8' TO 5'
 STA 102+20.95
 END TAPER
 STA 102+60.38

UMHSS
 TOP: 1133.32
 IN: 1127.63
 OUT: 1127.63

DCB
 TOP: 1133.75
 IN: 1129.74
 IN: 1129.95
 OUT: 1129.12

DD1
 TOP: 1136.75
 IN: 1134.59
 OUT: 1133.72

DD1
 TOP: 1136.63
 IN: 1132.93
 OUT: 1132.96

DJB
 TOP: 1139.83
 OUT: 1138.56

4 1/8" 1/6" 1/8" BIRCH
 8 7/8" 1/10" BIRCH

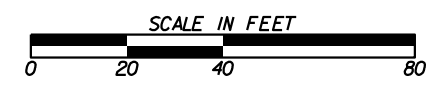
NOTE: OLD, ABANDONED AT&T FIBER LINE (BURIED) FROM CRABAPPLE RD TO RUCKER RD

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---p---
 ---C---
 ---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

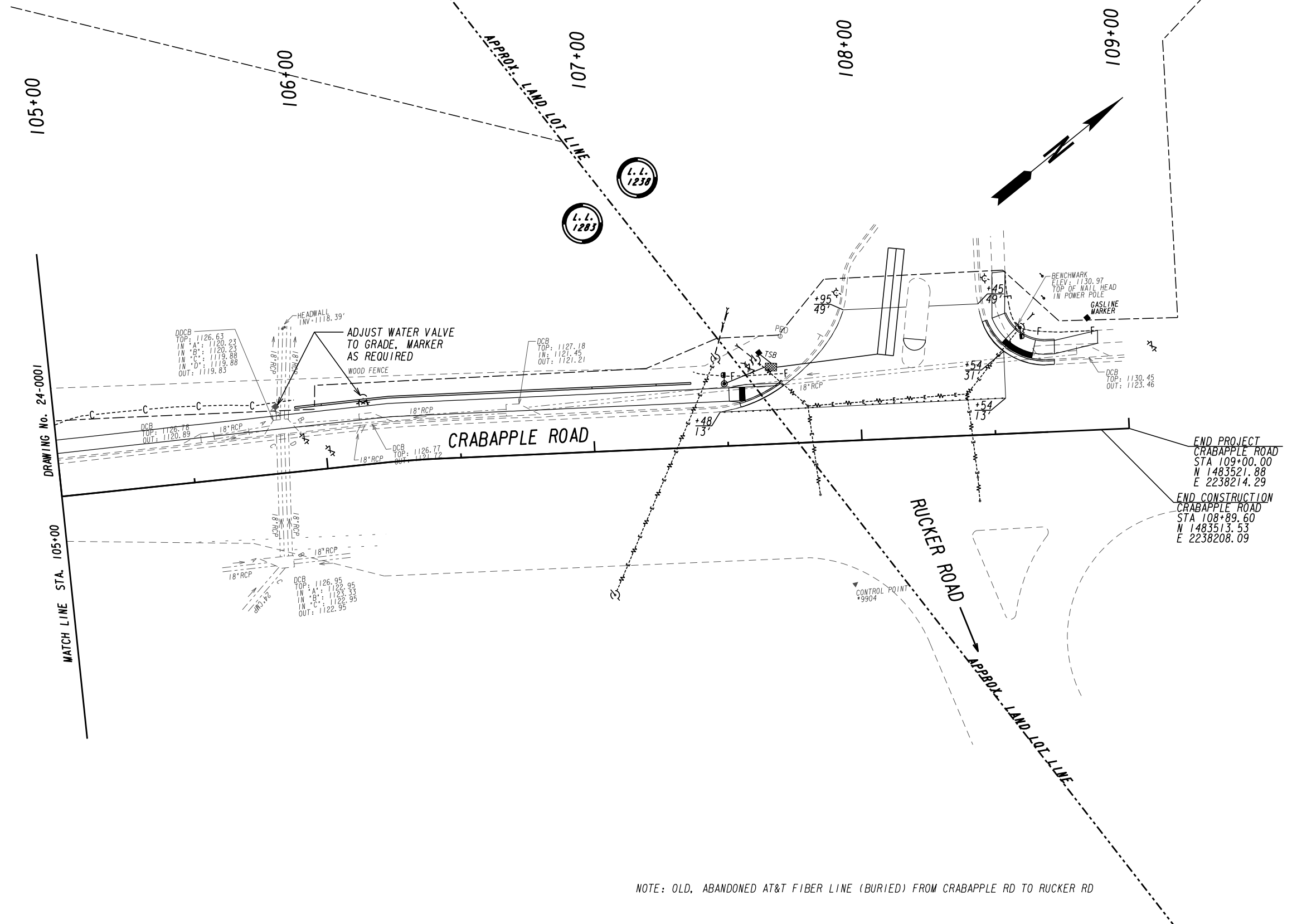
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 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

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REVISION DATES	

UTILITY PLANS		
PHASE 2-HARDCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



END PROJECT
CRABAPPLE ROAD
STA 109+00.00
N 1483521.88
E 2238214.29

END CONSTRUCTION
CRABAPPLE ROAD
STA 108+89.60
N 1483513.53
E 2238208.09

NOTE: OLD, ABANDONED AT&T FIBER LINE (BURIED) FROM CRABAPPLE RD TO RUCKER RD

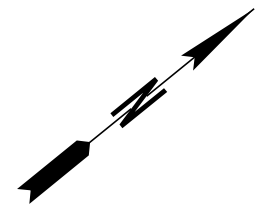
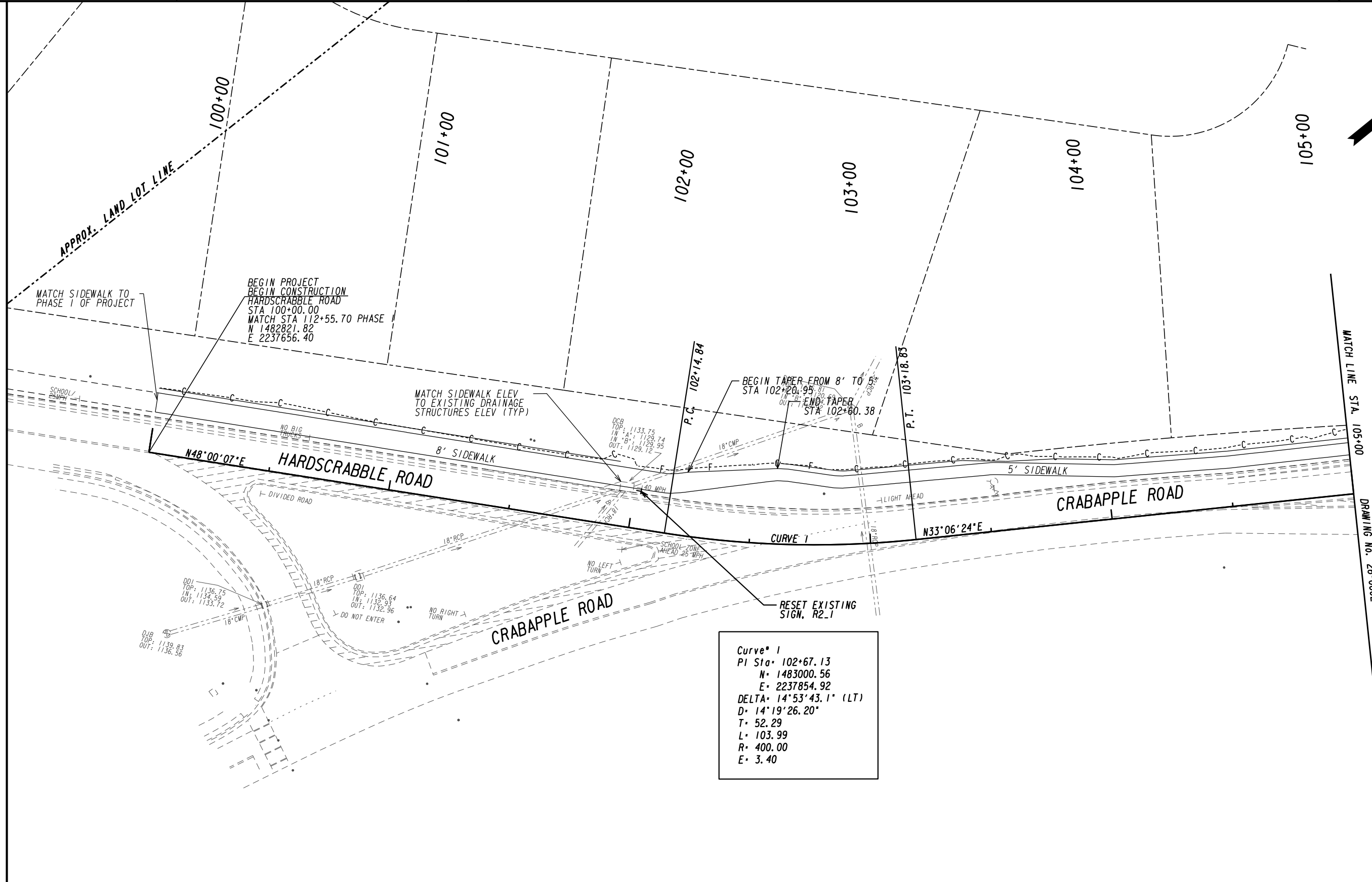
PROPERTY AND EXISTING R/W LINE
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CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

---BLA---
BEGIN LIMIT OF ACCESS.....BLA
---ELA---
END LIMIT OF ACCESS.....ELA
---LA---
LIMIT OF ACCESS
---LA---
REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

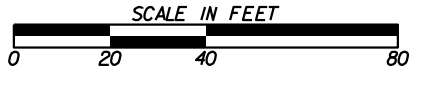
UTILITY PLANS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 1
 PI Sta 102+67.13
 N 1483000.56
 E 2237854.92
 DELTA 14°53'43.1" (LT)
 D 14'19"26.20"
 T 52.29
 L 103.99
 R 400.00
 E 3.40

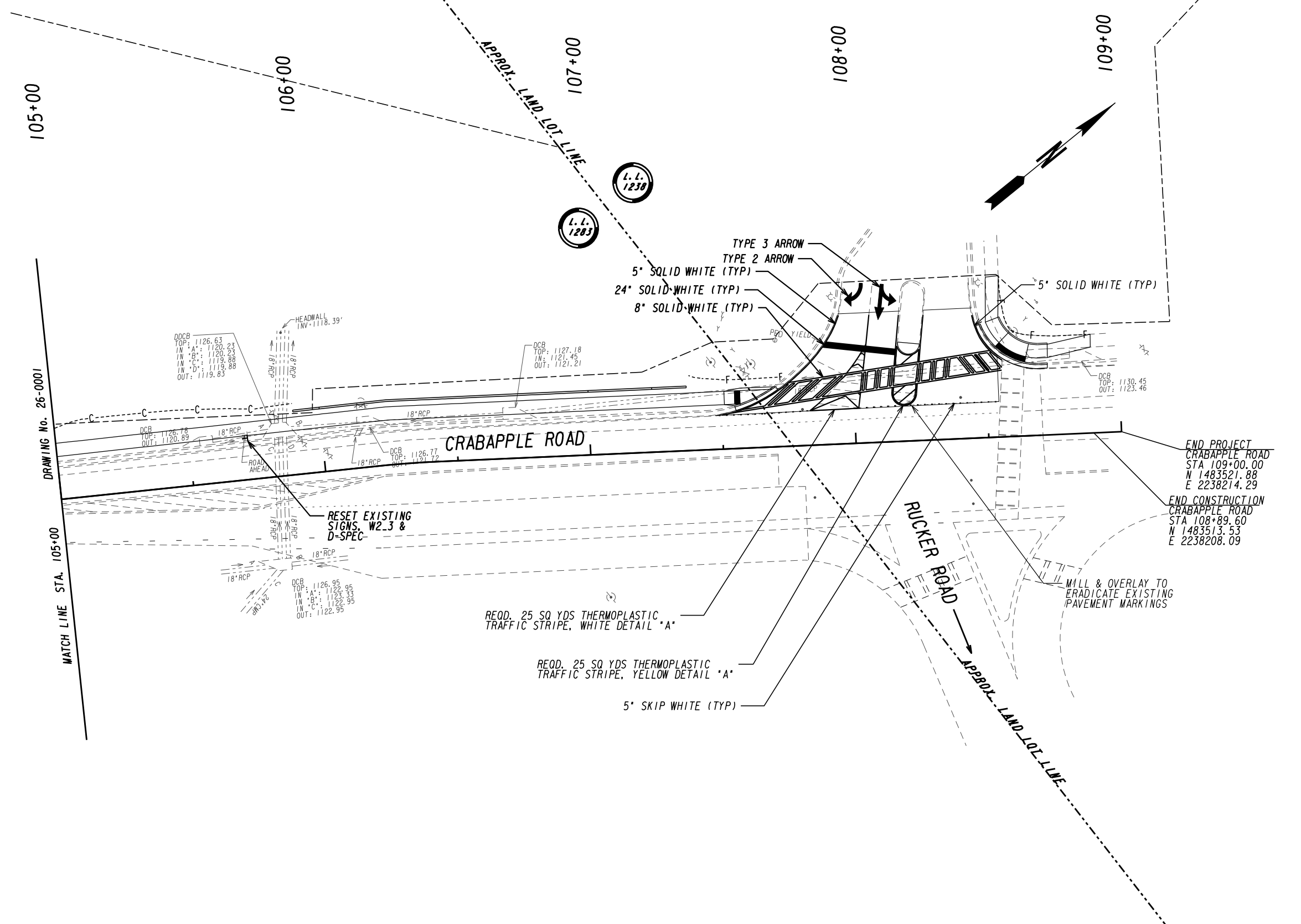
PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨
EASEMENT FOR CONSTR OF SLOPES	▩
EASEMENT FOR CONSTR OF DRIVES	▧

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



REVISION DATES	

SIGNING AND MARKING PLANS			
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



DRAWING No. 26-0001
MATCH LINE STA. 105+00

END PROJECT
CRABAPPLE ROAD
STA 109+00.00
N 1483521.88
E 2238214.29

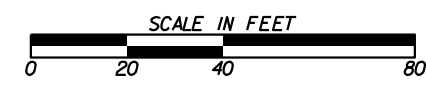
END CONSTRUCTION
CRABAPPLE ROAD
STA 108+89.60
N 1483513.53
E 2238208.09

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

---P---
---C---F---
[Hatched Box]
[Hatched Box]
[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

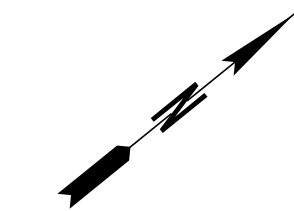
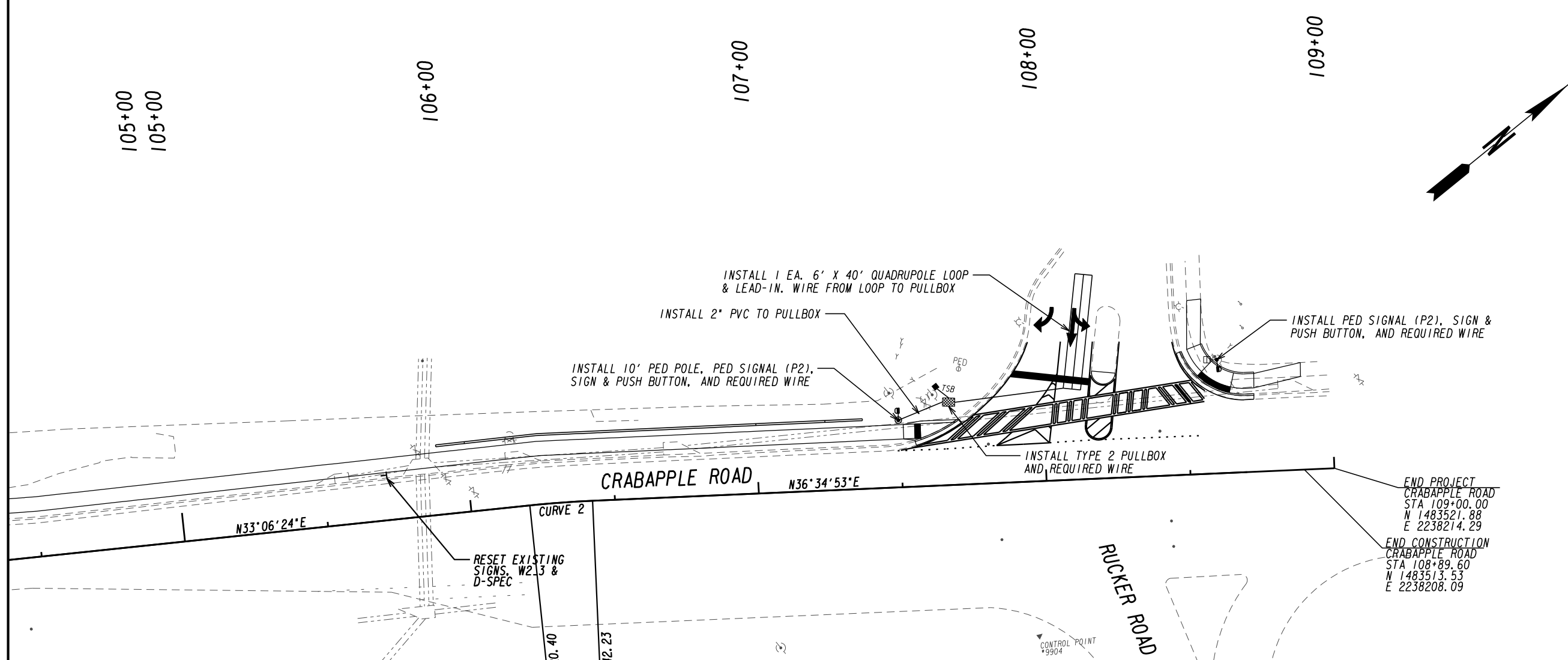
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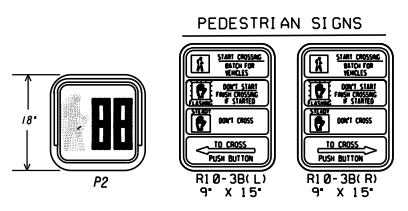
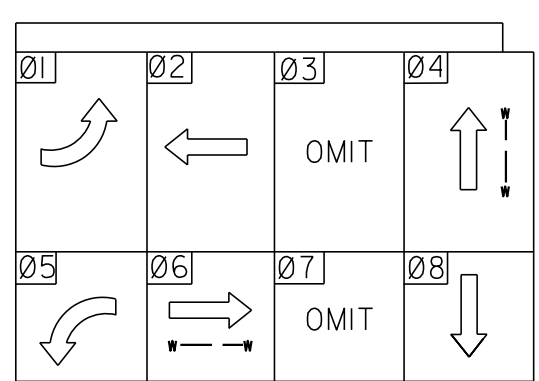
REVISION DATES	

SIGNING AND MARKING PLANS
PHASE 2-HARDSCRABBLE RD
AT CRABAPPLE RD/RUCKER RD

CHECKED:	DATE:	DRAWING No. 26-0002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PHASING DIAGRAM



Curve 2
 PI Sta. 106+31.32
 N= 1483306.12
 E= 2238054.16
 DELTA= 03°28'28.8" (RT)
 D= 15°54'55.78"
 T= 10.92
 L= 21.83
 R= 360.00
 E= 0.17

LIST OF MATERIALS	UNIT	QTY.
18" LED COUNTDOWN PEDESTRIAN HEAD, FULL SIDE-BY-SIDE (BLACK)	EA	2
PEDESTRIAN PUSHBUTTON & SIGN W/ADAPTER BRACKET FOR 9x15 SIGNS	EA	2
HARDWARE FOR PEDESTAL POLE, TOP-MOUNTING, ONE-WAY	EA	1
HARDWARE FOR PEDESTAL POLE, TOP POST-MOUNTING, TWO-WAY	EA	1
PULLBOX, TYPE 2	EA	1
10, PEDESTRIAN PEDESTAL POLE (BLACK)	EA	1
4-PR. 18 AWG PER 500-FT	REEL	1
2" CONDUIT, TP NON-METALLIC	LF	50
7-CONDUCTOR PER 500-FT	REEL	1
QUAD LOOP 6' x 40'	EA	1
MISC MATERIAL TO COMPLETE INSTALLATION	LUMP	LUMP
PAY ITEMS		
647-1000 TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP
615-1200 DIRECTIONAL BORE - 2 IN, NM, TP CONDUIT	LF	50
647-0200 TRAFFIC DETECTION LOOP SYSTEM	EA	1
647-6090 LOOP DETECTOR	EA	1

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

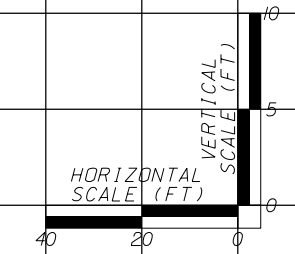
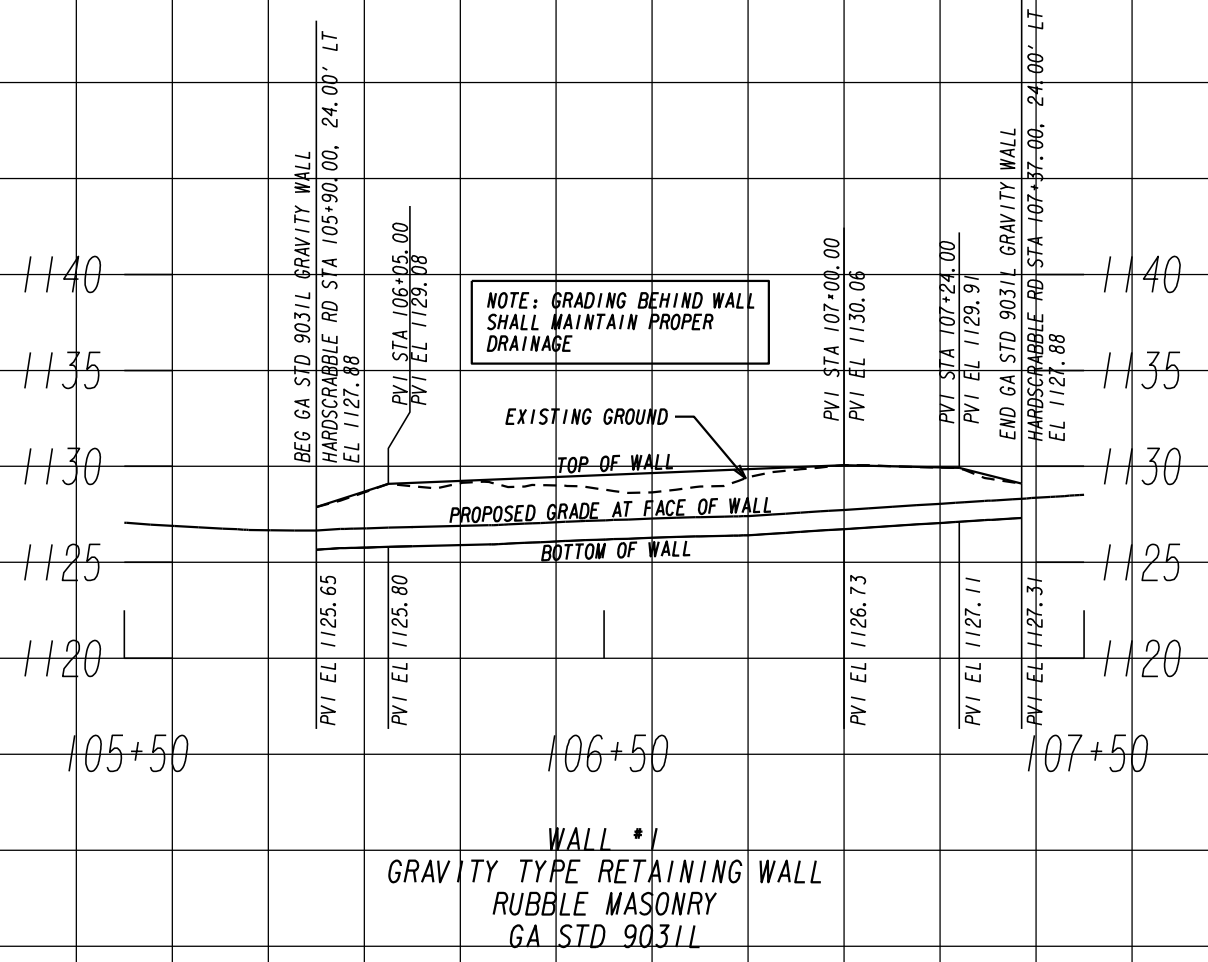
---e--- BEGIN LIMIT OF ACCESS.....BLA
 ---f--- END LIMIT OF ACCESS.....ELA
 ---c--- LIMIT OF ACCESS
 ---h--- REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

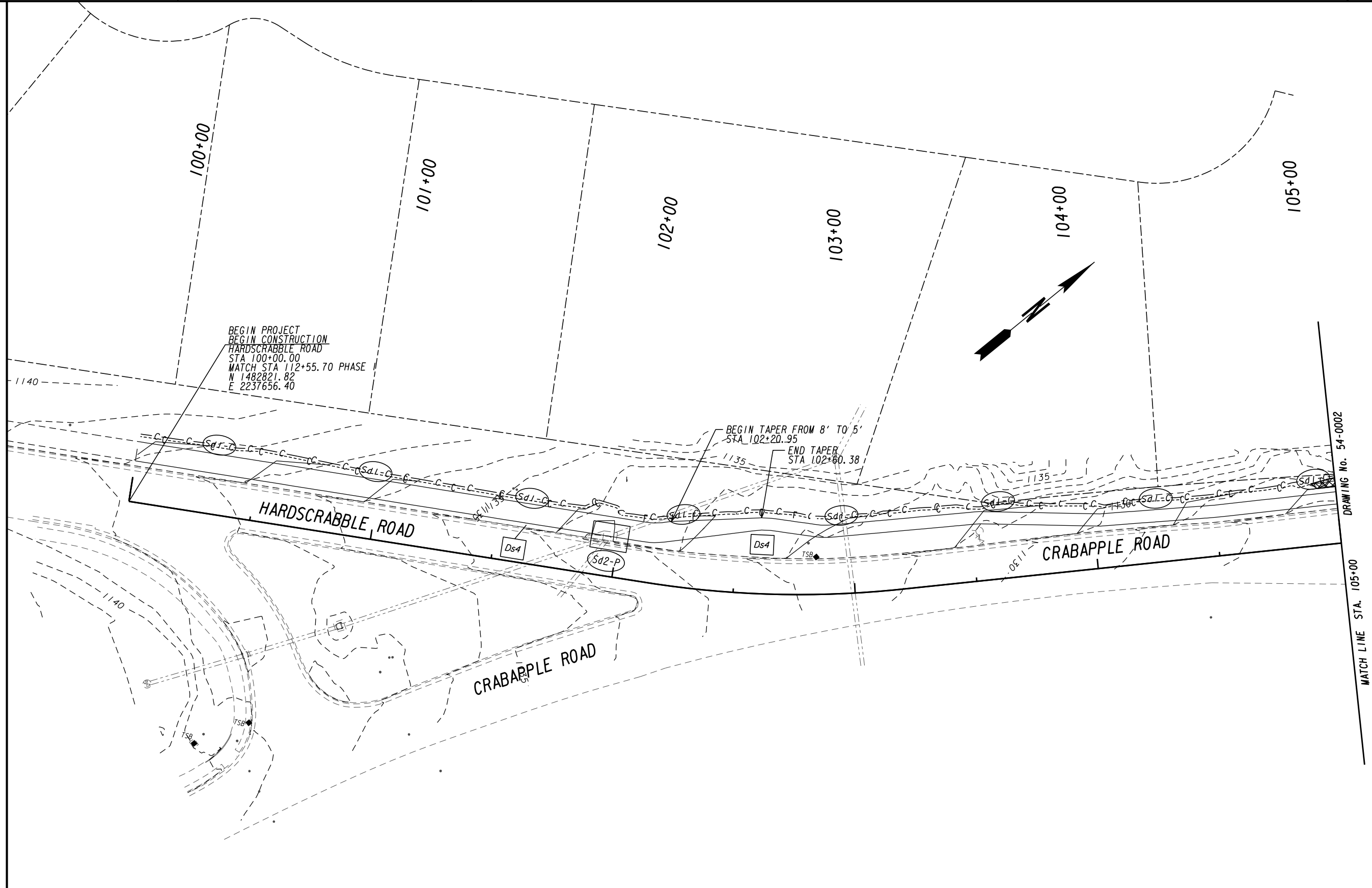
SIGNAL PLANS
 PHASE 2-HARDSCRABBLE RD
 AT CRABAPPLE RD/RUCKER RD

CHECKED:	DATE:	DRAWING No. 27-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REVISION DATES		RETAINING WALL ENVELOPES	
		PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	31-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



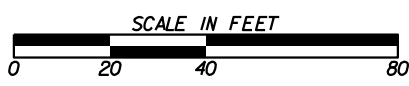


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---e---
 ---C---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

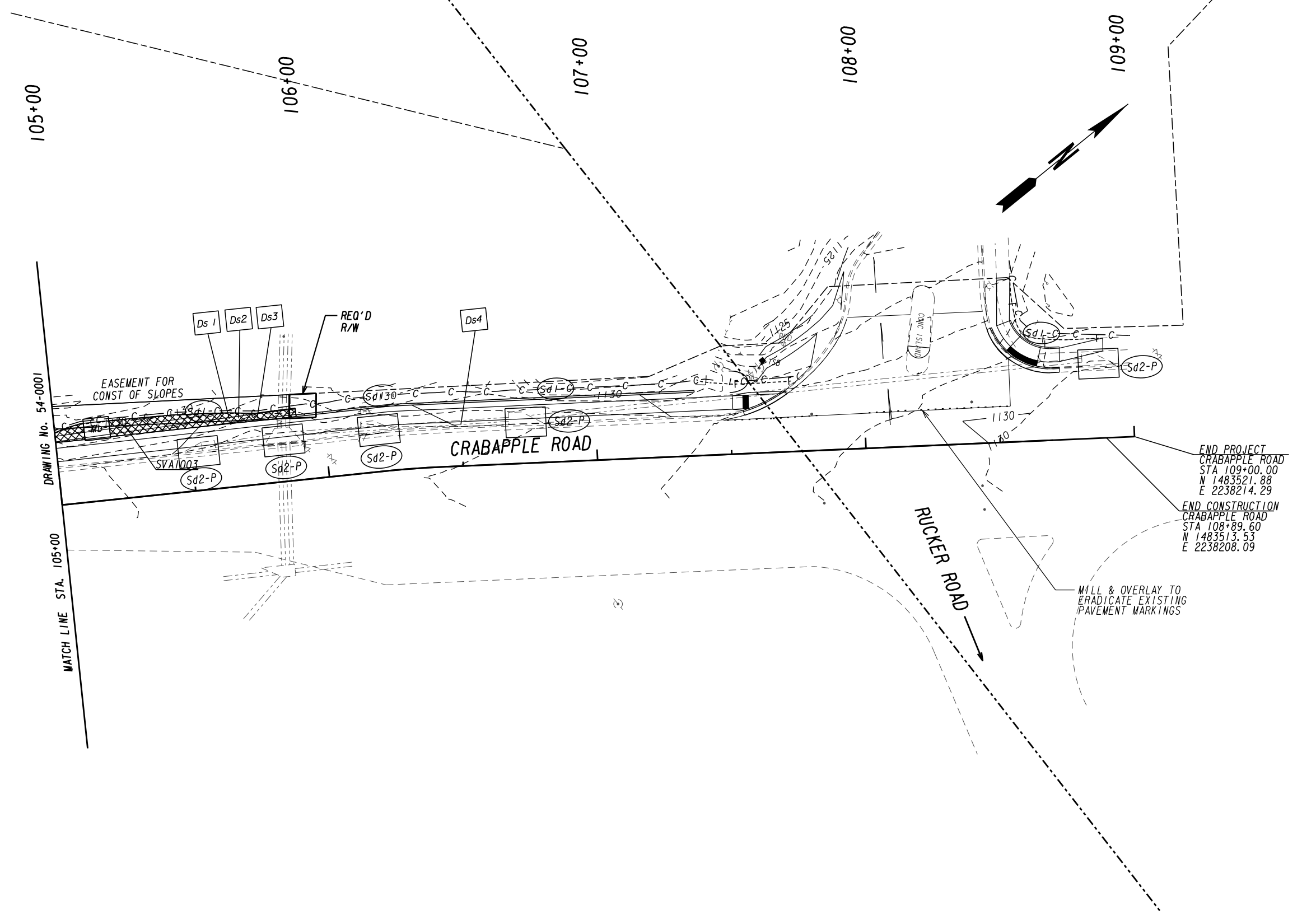
---o---
 ---|||---



REVISION DATES	

BMP LOCATION DETAILS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

DRAWING No. 54-0002
MATCH LINE STA. 105+00



END PROJECT
CRABAPPLE ROAD
STA 109+00.00
N 1483521.88
E 2238214.29

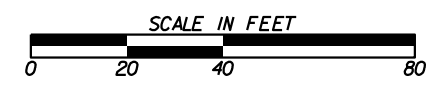
END CONSTRUCTION
CRABAPPLE ROAD
STA 108+89.60
N 1483513.53
E 2238208.09

MILL & OVERLAY TO
ERADICATE EXISTING
PAVEMENT MARKINGS

DRAWING No. 54-0001
MATCH LINE STA. 105+00

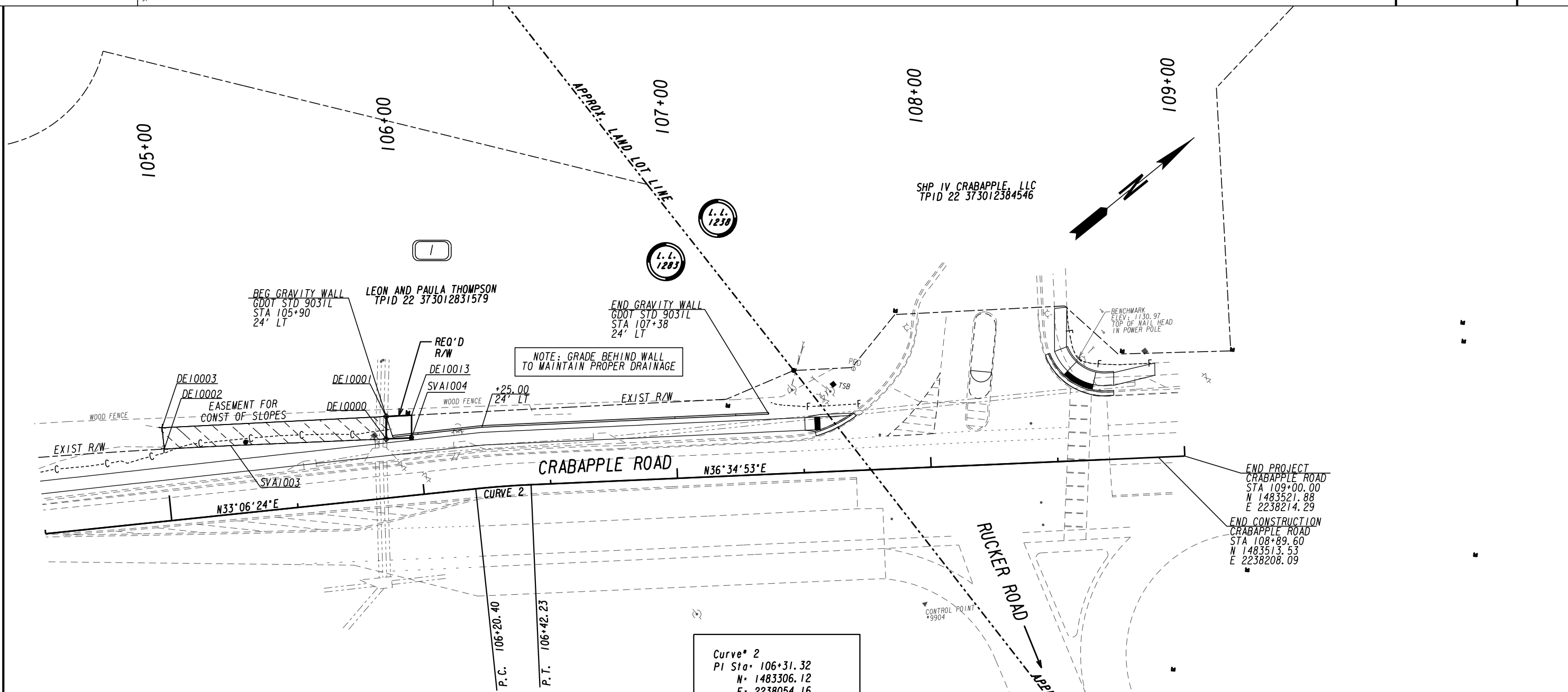
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

---p--- BEGIN LIMIT OF ACCESS.....BLA
 --- END LIMIT OF ACCESS.....ELA
 ---C---F--- LIMIT OF ACCESS
 --- III --- REQ'D R/W & LIMIT OF ACCESS



REVISION DATES	

BMP LOCATION DETAILS		
PHASE 2-HARDSCRABBLE RD AT CRABAPPLE RD/RUCKER RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

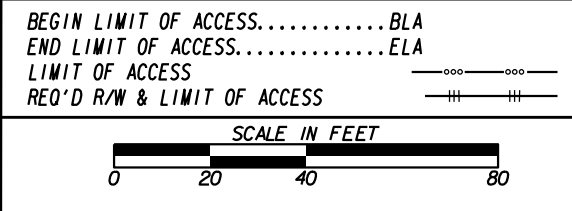


Curve* 2
PI Sta* 106+31.32
N* 1483306.12
E* 2238054.16
DELTA* 03°28'28.8" (RT)
D* 15°54'55.78"
T* 10.92
L* 21.83
R* 360.00
E* 0.17

REQD R/W PARI	REQ'D R/W	DE100	ALIGNMENT
PNT	OFFSET/ DIST	STATION/ BEARING	
DE10000	23.22 L	105+87.35	CRABAPPLE ROAD
DE10001	8.88 L	N 50°50'23.1" W	CRABAPPLE ROAD
	32.04 L	105+88.29	CRABAPPLE ROAD
	10.01	N 36°11'33.3" E	
DE10013	31.50 L	105+98.29	CRABAPPLE ROAD
	8.95	S 50°51'13.1" E	
SVA1004	22.60 L	105+97.34	CRABAPPLE ROAD
	10.01	S 36°37'58.8" W	
DE10000	23.22 L	105+87.35	CRABAPPLE ROAD
REQD R/W	= 89.13	SF	
REQD R/W	= 0.002	ACRES	
REMAINDER	= +/- 0.8000	ACRES	

TEMP ESMT PARI	REQ'D TEMP.	EASM'T.	DE101
PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10002	28.36 L	105+00.00	CRABAPPLE ROAD
DE10003	36.80 L	105+00.00	CRABAPPLE ROAD
DE10001	32.04 L	105+88.29	CRABAPPLE ROAD
DE10000	23.22 L	105+87.35	CRABAPPLE ROAD
SVA1003	26.99 L	105+26.18	CRABAPPLE ROAD
DE10002	28.36 L	105+00.00	CRABAPPLE ROAD
REQD EASMT AREA	= 753.20	SF	

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



DATE	REVISIONS	DATE	REVISIONS

DATE	REVISIONS

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP

PROJECT NO: N/A
COUNTY: FULTON
LAND LOT NO: 1283, 1238
LAND DISTRICT: I
GMD: N/A
DATE: SH 1 OF 1

DRAWING No.
60-0001