



Contact 811 before you dig.

A&R GENERAL NOTES

- TEMPORARY STRIPING SHOULD BE INSTALLED ALL TIMES DURING MILL AND INLAY
- CONTRACTOR TO INCLUDE PRICING FOR MILL AND INLAY DURING DAYLIGHT AND NIGHTTIME HOURS SEPARATELY
- THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO CONTACT THE ENGINEER IF CONFLICTS ARISE BETWEEN UTILITIES LOCATED IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR KNOWING ALL GDOT DETAILS REFERENCED WITHIN. ALL DETAILS CAN BE ACCESSED ONLINE AT: WWW.STANDARDDETAILS.DOT.GA.GOV. THE CONTRACTOR SHALL CONTACT A&R ENGINEERING PRIOR TO CONSTRUCTION IF ANY CONFLICTS ARISE OR THE CONTRACTOR NEEDS ASSISTANCE.

Project Narrative

PROPOSED FULL ACCESS DRIVEWAY ON SR 140. INCLUDES DRIVEWAY DESIGN AND ASSOCIATED RIGHT OF WAY IMPROVEMENT.

Project Information

Net Length of Project Along SR 140	0.16 Miles
Gross Length of Project	0.16 Miles
Area Disturbed on SR 140	0.12 ac
Total Area Disturbed	0.12 ac
Speed Limit on SR 140	50 MPH

GEORGIA DOT NOTES:

- THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.
- THE FOLLOWING WILL NOT BE ALLOWED ON RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER. (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION. (3) HEADWALLS. (4) SIGNS, DISPLAY DEVICES AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED OR USED TO ADVERTISE OR INFORM. (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.
- ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION / DECELERATION LANES SHALL BE RELOCATED BEFORE THE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.
- CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO DOT SPECIFICATIONS ALL RIGHT-OF-WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.
- THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.
- ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF THE CURB WITH TOP SOIL AND GRASSED. NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK IN THE STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS ETC.)
- REQUIRED PAVEMENT SPECIFICATIONS
 - 1 1/2"-----12.5 MM SUPERPAVE
 - 2"-----19 MM SUPERPAVE
 - 5"-----25 MM SUPERPAVE
 - 12"-----GRADED AGGREGATE BASE COURSE
- THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.
- NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.
- THE MAINTENANCE OF THE DRIVEWAY FROM NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.
- OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.
- ALL SIDEWALKS CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS
- THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W
- ALL WORK PERFORMED WITHIN GDOT R/W SHALL CONFORM TO GDOT STANDARDS AND DETAILS
- ALL UTILITIES REQUIRING RELOCATION WITHIN GDOT R/W SHALL MEET GDOT CLEAR ZONE AT NO COST TO THE DEPARTMENT

DRIVEWAY DESIGN FOR

HICKORY FLAT HWY MEDICAL OFFICE

AT
4195 HICKORY FLAT HWY

Land Lot 0115, District 6
CITY LIMITS OF CANTON,GA
CHEROKEE COUNTY

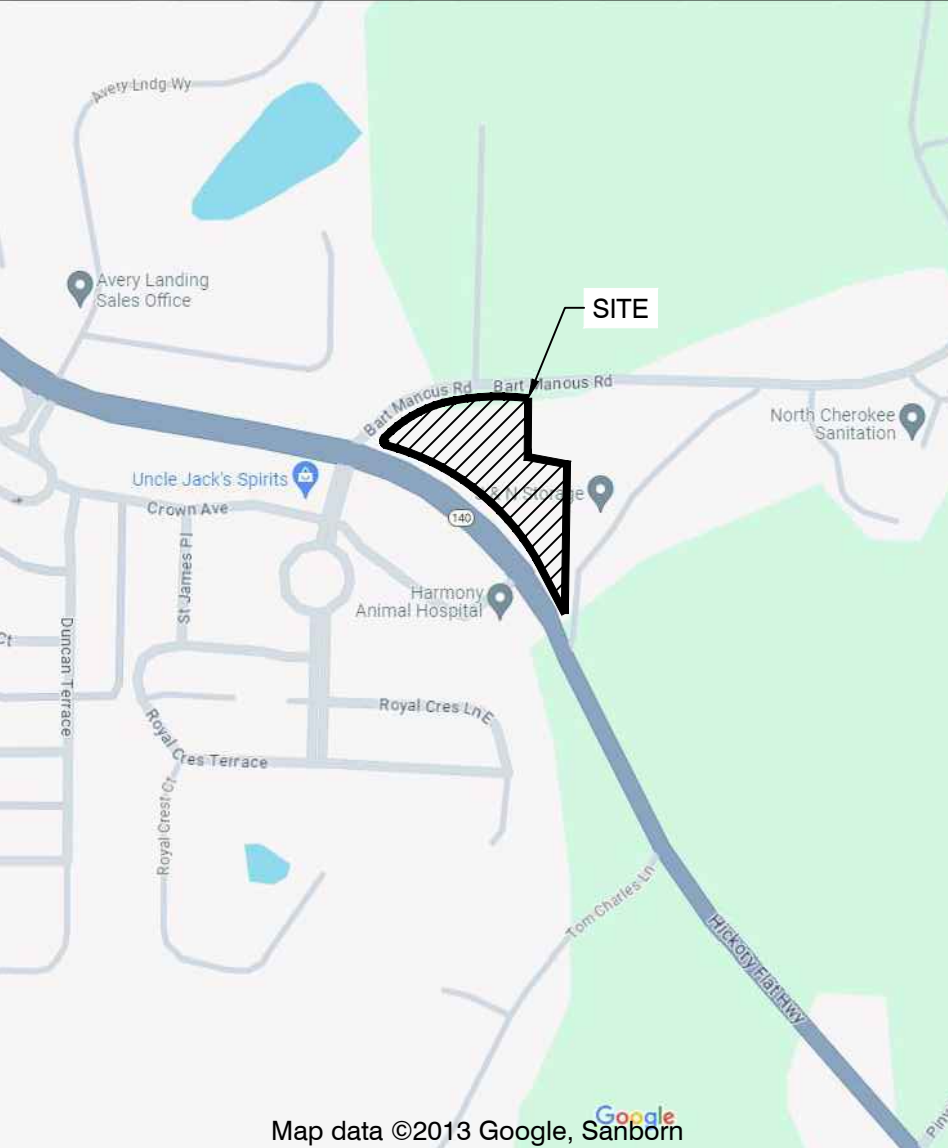
Project Contacts

Civil Site Engineer	Transportation Engineer	PE Contact
B.C. Engineering 116 N Main Street Cumming, GA, 30040 770-205-6181	A&R Engineering, Inc. 2160 Kingston Court, Suite O Marietta, GA 30067 770-690-9255 Contact: Abdul Amer aamer@areng.com	Abdul Amer aamer@areng.com 770-690-9255
24 HOUR CONTACT	Property Owner	Developer
Luke Bailey 770-205-6181	AmeriGas Propane, L.P 460 North Gulph Road King of Prussia, PA 19406	Mack Development Group, LLC 770-851-7663

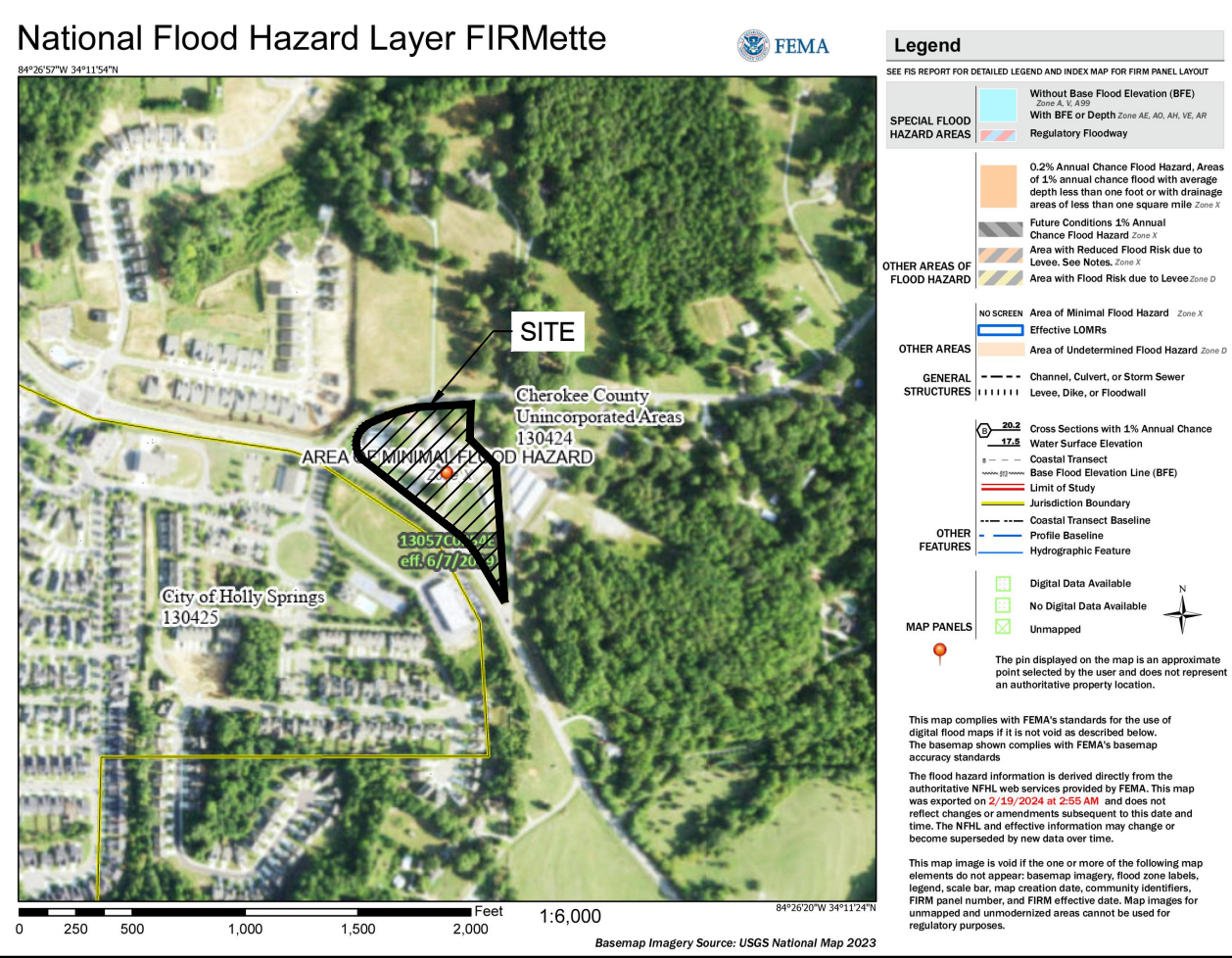
SUMMARY OF REVISIONS

DATE	SHEET NUMBER	REVISIONS

LOCATION MAP



FIRM MAP



BASED ON THE INFORMATION SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM * FLOOD INSURANCE RATE MAP "FIRM" OR FLOODWAY BOUNDARY MAP * COMMUNITY PANEL NUMBER 13057C0254E, CHEROKEE COUNTY, GEORGIA DATED JUNE 7, 2019 FURNISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY THROUGH THE FEDERAL INSURANCE ADMINISTRATION, IT IS MY OPINION THAT THE IMPROVEMENTS SHOWN HEREON ARE AREA OF MINIMAL FLOOD HAZARD AREA.

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CT-1201	PAVING PLAN
CT-1301	SIGNING & STRIPING PLAN
CT-1302	SIGNING & STRIPING PLAN
CT-1303	SIGNING & STRIPING PLAN
CT-1400	OVERALL GRADING PLAN
CT-1401	GRADING, E.C. & P.C. PLAN
CT-1402	GRADING, E.C. & P.C. PLAN
CT-1403	GRADING, E.C. & P.C. PLAN
CT-1501	UTILITY PLAN
CT-2201	STORM PROFILE
CT-2401	SIGHT DISTANCE
CT-2402	SIGHT DISTANCE
CT-5001	DETAILS
CT-5002	DETAILS
CT-5003	DETAILS



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(770) 690-9255
www.areng.com
info@areng.com
GA COA #PEF00400

NOT RELEASED
FOR CONSTRUCTION

REVISIONS

DATE

NO.

PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

COVER

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
HOLLYSPRINGS, GA 30115

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6
PARCEL ID # 15-0115-0059
DWN BY CKD BY A&R JOB No. LO ---- 24-011

DATE
01-31-2024

SHEET
IDENTIFICATION
CT-0001

A

B

C

D

E

F

G

SIGNING AND STRIPING NOTES:

1.

ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH GDOT SPECIFICATIONS AND DETAILS FOR PAVEMENT MARKING INSTALLATIONS.

2.

ALL STRIPING BEING INSTALLED ON PORTLAND CEMENT CONCRETE PAVING SHALL BE PREFORMED WITH BLACK CONTRASTING OUTLINE. ALL OTHER PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC UNLESS NOTED OTHERWISE.

3.

SIGNING, STRIPING, MARKING, AND HIGH LEVEL WARNING DEVICES TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEER AND/OR GDOT INSPECTOR. THIS TRAFFIC CONTROL PLAN IS SUBJECT TO CHANGE BY GDOT TRAFFIC ENGINEER.

4.

NO GRINDING ALLOWED. CORRECT ALL STRIPING BY ASPHALT OVERLAY.

5.

ALL SIGNS MUST BE INSTALLED/RELOCATED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.

6.

ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

7.

NEW PAVEMENT IS REQUIRED ACROSS ALL PROPERTY FRONTAGE, AND INSTALLED AS PER PERMIT.

8.

THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL BY POSTING SIGNAL MEN AND CLEAN-UP CREWS FOR THE DURATION OF HAULING OR AS DIRECTED BY THE ENGINEER.

9.

ALL TRAFFIC CONTROL AND CLEAN-UP CREW OPERATIONS SHALL CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

10.

HAUL OPERATIONS SHALL NOT BE PERMITTED DURING PEAK TRAFFIC FLOW PERIODS: 7-9 AM, 4-6 PM.

11.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ROADWAY CAUSED BY HAULING OPERATIONS.

12.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

13.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND RE-GRASS TO DOT SPECIFICATIONS ALL RIGHT-OF-WAY THAT IS DISTURBED.

14.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKING AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.

15.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOPSOIL AND GRASSSED.

16.

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE APPROVED PLANS AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE

17.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

18.

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

1. GRADING, DRAINAGE, & EROSION CONTROL NOTES:

2.

ALL CROSS SLOPES WITHIN THE DRIVEWAY AREA SHALL NOT EXCEED A MAXIMUM OF 6% (2% ON CROSSWALKS) PER GDOT STANDARDS.

3.

THESE PLANS ARE LIMITED TO WORK DONE WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY LIMITS. INFORMATION SHOWN OUTSIDE OF THE RIGHT-OF-WAY IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.

4.

EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SHALL COMPLY WITH THE STANDARDS/ SPECIFICATIONS IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

5.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

6.

A SITE INSPECTION SHALL BE CONDUCTED WITHIN 24 HOURS OF THE END OF ANY RAINFALL EVENT THAT IS GREATER THAN OR EQUAL TO 0.5 IN., AND AT LEAST EVERY SEVEN (7) DAYS.

7.

ANY DEFICIENCIES IDENTIFIED DURING THE INSPECTION OF BMPS SHALL BE CORRECTED WITHIN SEVEN (7) DAYS OF THE INSPECTION.

8.

ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED BY CONTRACTOR IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.

9.

MAINTENANCE STATEMENT-EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

10.

SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 TEMPORARY SILT FENCE OF THE GEORGIA STANDARD SPECIFICATIONS, 2018 AND BE WIRE OR POLYPROPYLENE REINFORCED.

11.

ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS. AFTER 30 DAYS, PERMANENT VEGETATION SHALL BE ESTABLISHED.

12.

THE CONTRACTOR SHALL NOT ALLOW SILT TO ACCUMULATE IN SILT FENCE ABOVE ONE-HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE. THE CONTRACTOR SHALL REMOVE SILT AS NEEDED TO PREVENT EXCESS ACCUMULATION.

13.

TEMPORARY MEASURES SUCH AS SILT FENCING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ONCE THE SITE HAS REACHED PERMANENT STABILIZATION.

14.

ALL INSTALLATION METHODS & MATERIALS SHALL COMPLY WITH GDOT SPECIFICATIONS AND STANDARDS.

UTILITY NOTES

1.

FIELD VERIFY LOCATION AND DEPTH OF UNDERGROUND UTILITIES.

2.

ADJUST ALL WATER METER, GAS VALVE, AND OTHER UTILITY COVERS AS NECESSARY. COORDINATE WITH UTILITY COMPANIES.

3.

THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

4.

ALL EXISTING UTILITIES THAT RUN PARALLEL WITH THE EXISTING ROADWAY, WHICH WOULD END UP UNDER THE NEW PAVEMENT WITHIN GDOT RIGHT-OF-WAY (TRAVEL LANE, AUXILIARY LANE, PAVED SHOULDER, ETC.) WILL NEED TO BE RELOCATED PRIOR TO FINAL GRADING/PAVING AT NO COST TO THE DEPARTMENT. IF UTILITY OWNER(S) WISHES TO RETAIN FACILITIES UNDER NEW ROADWAY, THEY MUST SUBMIT A FORMAL “RETENTION UNDER PAVEMENT” REQUEST WHICH MUST BE APPROVED BY THE DEPARTMENT IN ORDER TO RETAIN THEIR LONGITUDINAL FACILITIES UNDER PAVEMENT. UTILITY OWNERS WITH FACILITIES IN CONFLICT OR ONES THAT HAVE THEIR “RETENTION UNDER PAVEMENT” REQUESTS DENIED WILL NEED TO SUBMIT A GUPS (UTILITY ENCROACHMENT) PERMIT FOR REVIEW AND APPROVAL.

5.

A GUPS PERMIT WILL BE REQUIRED FROM EACH RESPECTIVE UTILITY OWNER THAT HAS UTILITIES IN CONFLICT WITHIN GDOT R/W. IF A UTILITY HAS CONFLICT(S) ON MULTIPLE STATE ROUTES, SEPARATE PERMITS WILL BE REQUIRED FROM THAT UTILITY OWNER FOR EACH STATE ROUTE.

6.

RELOCATED POLES WITHIN STATE RIGHT-OF-WAY WILL NEED TO MEET GDOT CLEAR ZONE REQUIREMENTS. RELOCATED POLES OUTSIDE OF STATE RIGHT-OF-WAY WILL NEED TO MEET LOCAL AND/OR AASHTO CLEAR-ZONE REQUIREMENTS.

7.

ALL WATER METERS, WATER VALVES, FIRE HYDRANTS, AND SANITARY SEWER MANHOLES ARE TO BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED.

TRAFFIC SIGNAL NOTES

1.

ALL SIGNAL EQUIPMENT SHALL BE PLACED WITHIN THE RIGHT-OF-WAY. CONTRACTOR SHALL HAVE RIGHT-OF-WAY STAKED PRIOR TO INSTALLING SIGNAL EQUIPMENT.

2.

ANY DETECTION LOOPS OR OTHER SIGNAL EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED

LANE CLOSURE NOTE:

THE CONTRACTOR SHALL NOT INSTALL LANE CLOSURES OR PERFORM WORK OR MOVE EQUIPMENT OR MATERIALS ON THE TRAVELED WAY THAT VISIBLY INTERFERES WITH TRAFFIC FLOW BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM, MONDAY THROUGH FRIDAY.

A&R GENERAL NOTES

1.

TEMPORARY STRIPING SHOULD BE INSTALLED AT ALL TIMES DURING MILL AND INLAY

2.

THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO CONTACT THE ENGINEER IF CONFLICTS ARISE BETWEEN UTILITIES LOCATED IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.

3.

THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.

4.

THE CONTRACTOR IS RESPONSIBLE FOR KNOWING ALL GDOT DETAILS REFERENCED WITHIN. ALL DETAILS CAN BE ACCESSSED ONLINE AT: http://mydocs.dot.ga.gov/info/gdotpubs/ConstructionStandardsAndDetails/ THE CONTRACTOR SHALL CONTACT A&R ENGINEERING PRIOR TO CONSTRUCTION IF ANY CONFLICTS ARISE OR THE CONTRACTOR NEEDS ASSISTANCE.

TRAFFIC CONTROL NOTES:

1.

CONTRACTOR TO FOLLOW GDOT STDs 9100, 9102 AND 9107 FOR CONSTRUCTION, SIGNING, MARKING, AND TRAFFIC CONTROL.

2.

REDUCE THE SPEED LIMIT IN THE CONSTRUCTION ZONE PER GDOT STD 9100, 9102, 9107, AND SECTION 150 OF GA STANDARD SPECIFICATIONS

3.

RAISE GRADED SHOULDER SIMULTANEOUSLY WITH ASPHALT PAVING TO PREVENT DROP OFF

4.

CONTRACTOR SHALL FOLLOW SECTION 150 OF GA STANDARD SPECIFICATIONS FOR ALL CONSTRUCTION SIGNING, BARRELS AND TRAFFIC CONTROL.

DEMOLITION NOTES:

1.

REMOVE ALL STRUCTURES INCLUDING PAVEMENT, CURB & GUTTER, WALKS, SIGNS, STRUCTURES AND VEGETATION NECESSARY TO COMPLETE THE WORK SHOWN WITHIN THE PLAN SET. THE CONTRACTOR SHALL CONFIRM THE ITEMS SHOWN ON THE DEMOLITION PLAN AND ADJUST THEM AS NECESSARY PRIOR TO BIDDING.

2.

ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE GOVERNMENTAL REGULATIONS.

3.

PROVIDE ALL DEMOLITION REQUIRED TO COMPLETELY CLEAR THE SITE, EXCEPT FOR THE EXISTING TREES NOTED TO REMAIN.

4.

EXISTING SIDEWALK AND CURBS FRONTING ALL ROADS ARE TO REMAIN UNLESS NOTED OTHERWISE.

5.

ANY SIDEWALK OR CURB DAMAGED IS TO BE REPLACED AT CONTRACTOR'S EXPENSE.

6.

NOTIFY INSPECTOR 24 HOURS PRIOR TO ANY DEMOLITION.

GENERAL LEGEND & ABBREVIATIONS

CL

CONSTRUCTION LIMITS

SS

SANITARY SEWER

- W

WATER LINE, #"- SIZE

FM

FORCE MAIN

25'

25' BUFFER

50'

50' BUFFER

75'

75' BUFFER

STREAM

STREAM

X

FENCE

GUARDRAIL (EXISTING)

+++++

RAILROAD TRACKS

G

GAS

GAS

GAS

W

WATER LINE

T

TELEPHONE (GENERIC)

P

POWER (GENERIC)

UGP

UNDERGROUND POWER

OHP

OVERHEAD POWER

UGT

UNDERGROUND COMMUNICATIONS

OHT

OVERHEAD COMMUNICATIONS

CAT V

CABLE TV

COMM

COMMUNICATIONS (GENERIC)

AF

FIBER OPTIC - AERIAL

[UF]

FIBEROPTIC - UNDERGROUND

|||

LIMITED ACCESS R/W

>

FLOW LINE

- - - - -

GUARDRAIL (FACE)

SS

SANITARY SEWER

MH

MANHOLE

DI

DROP INLET

SWCB

SINGLE WING CATCH BASIN

DWCB

DOUBLE WING CATCH BASIN

SES

SAFETY END SECTION

HW

HEADWALL

<



Contact 811 before you dig.

N/F
DURHAM, JERRY
PARCEL #15N25081A
260 BART MANOUS ROAD
DB 14553 PG 1585

N/F
J&N STORAGE LLC
PARCEL #15N25081A
260 BART MANOUS ROAD
DB 2774 PG 297

N/F
J&N STORAGE LLC
PARCEL #15N25081A
260 BART MANOUS ROAD
DB 2774 PG 297

HICKORY FLAT HWY
(SR 140) 50 MPH

DEMOLITION LEGEND

- SAWCUT AND REMOVE EXISTING PAVED SHOULDER
- DEMO EXISTING ASPHALT PAVING
- DEMO EXISTING PIPE



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GA COA #PEF00400

NOT RELEASED
FOR CONSTRUCTION

SEAL

REVISIONS

DESCRIPTION

DATE

NO.

PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

DEMOLITION PLAN

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT DISTRICT
0115 6

PARCEL ID #
15-0115-0059

DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE
01-31-2024

SHEET
IDENTIFICATION

CT-1001

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



NORTH



Contact 811 before you dig.

TOTAL SITE FRONTAGE ON HICKORY FLAT HWY : 862'

TOTAL SITE FRONTAGE ON BART MANOUS RD : 498'



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DESCRIPTION

DATE

1

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PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

OVERALL PROPOSED PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

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LUKE BAILEY
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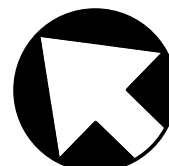
DATE
01-31-2024

SHEET
IDENTIFICATION
CT-1101

GRAPHIC SCALE



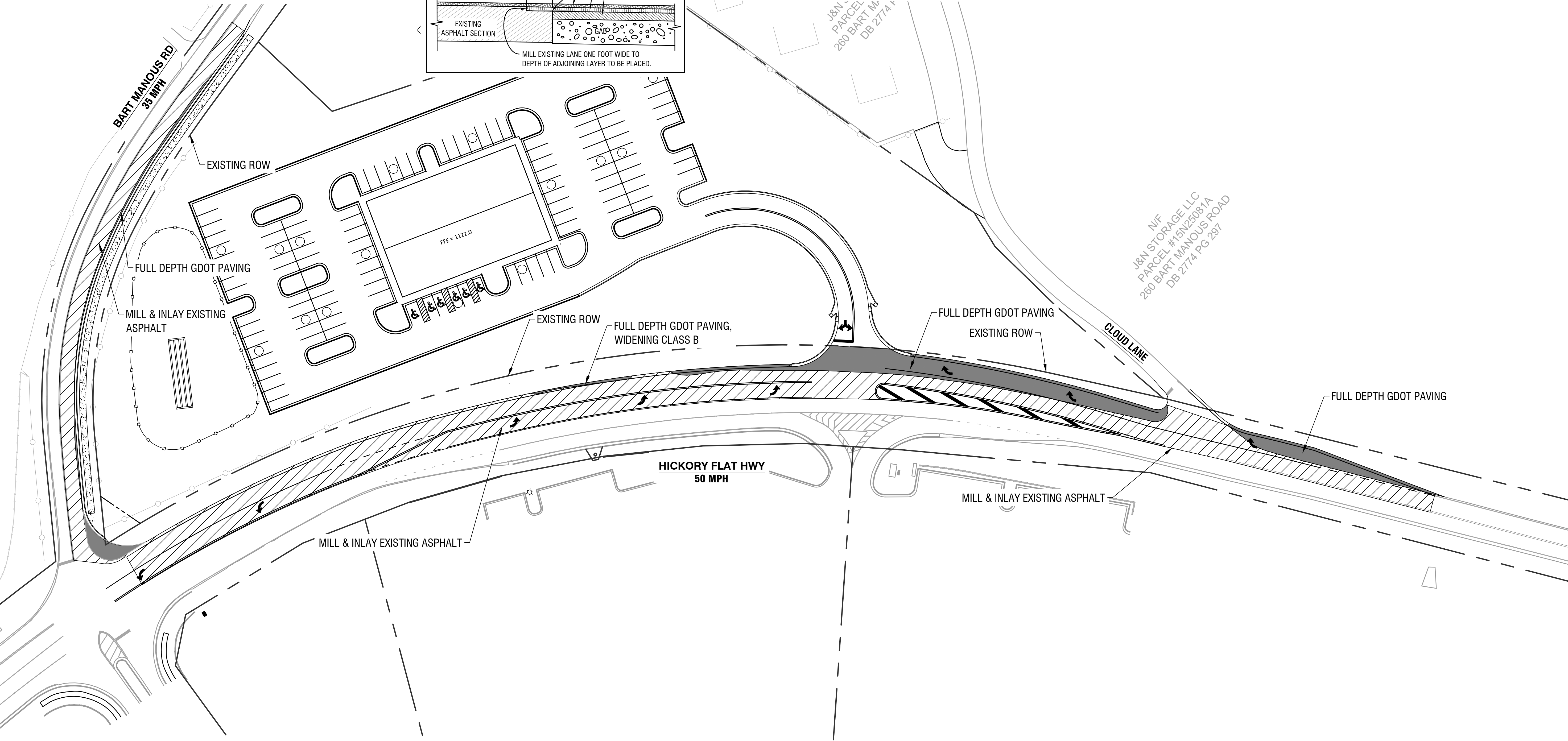
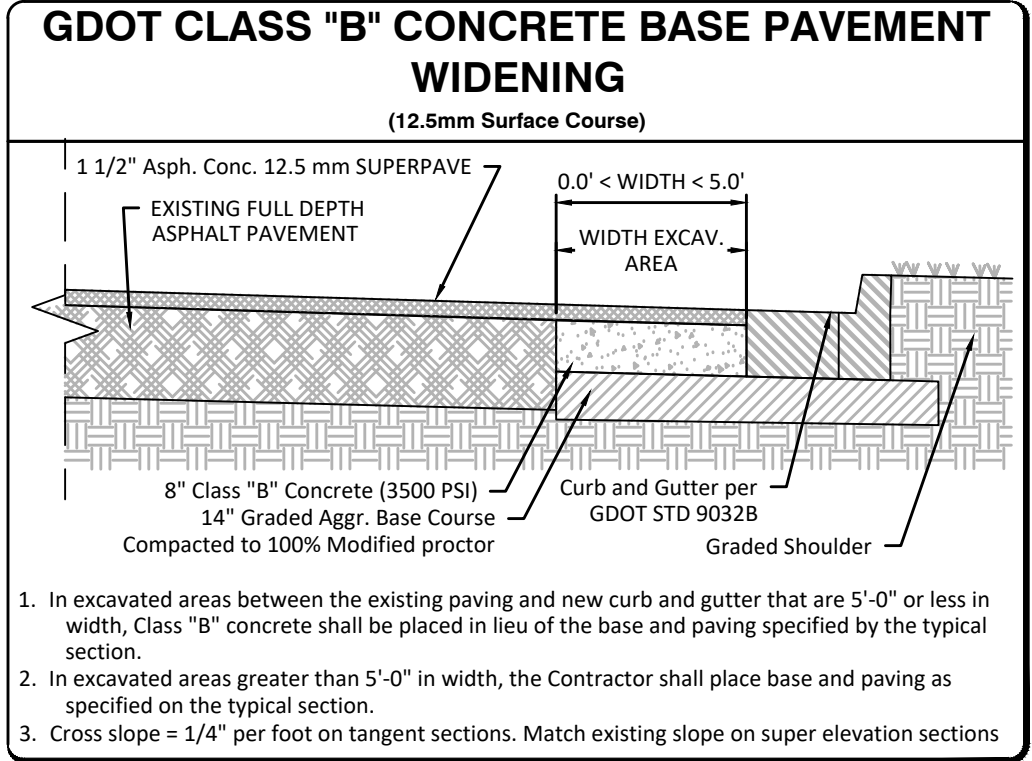
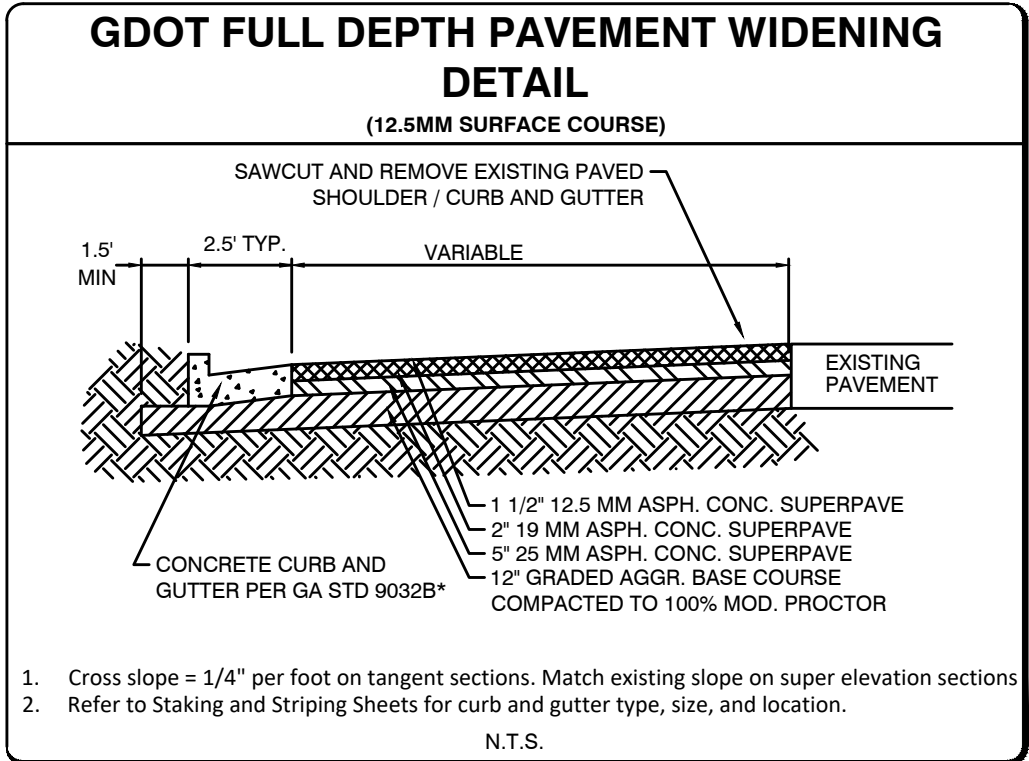
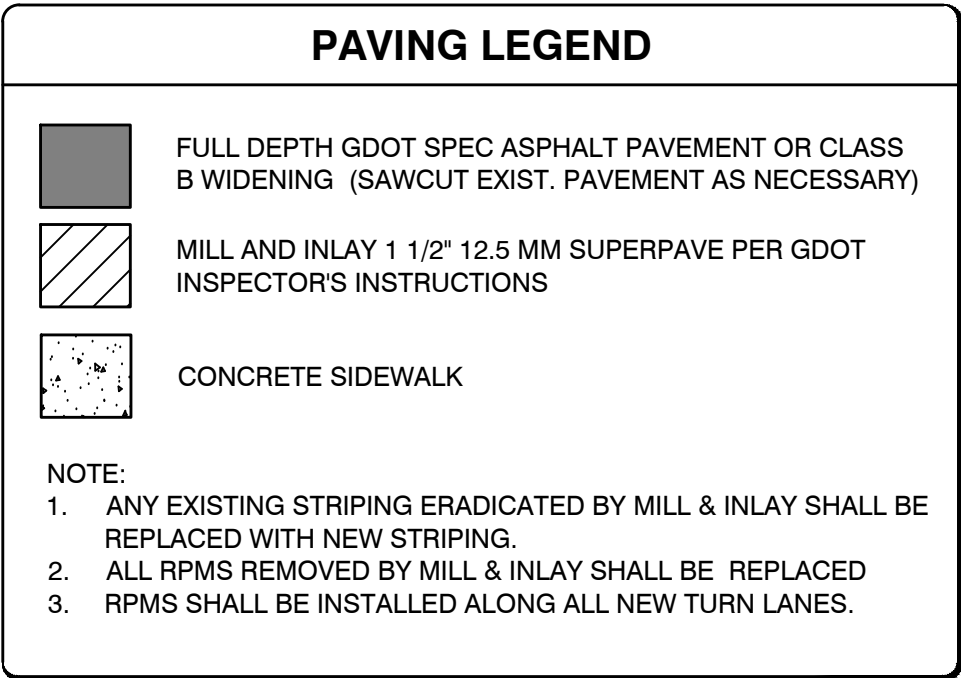
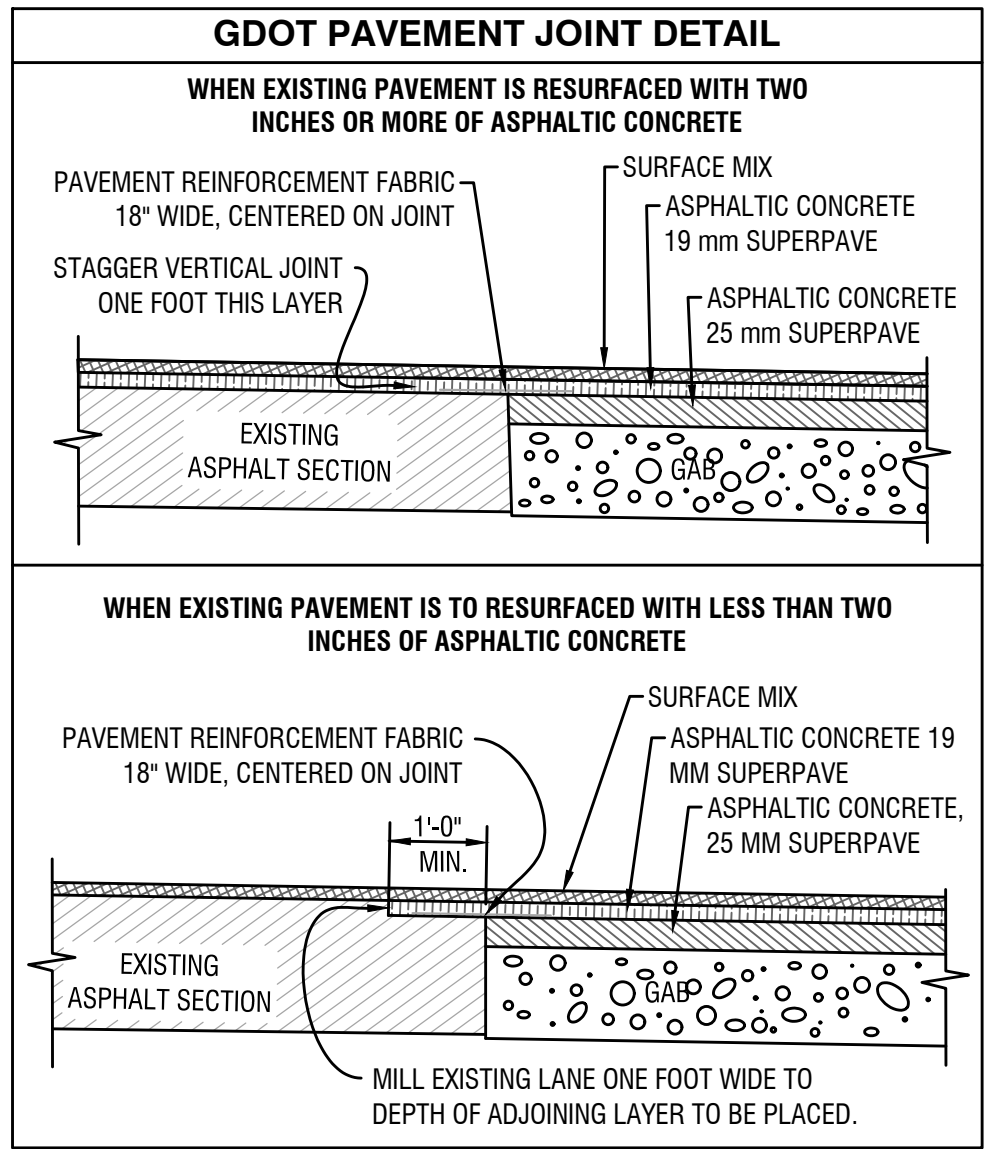
(IN FEET)
1 inch = 40 ft.



NORTH

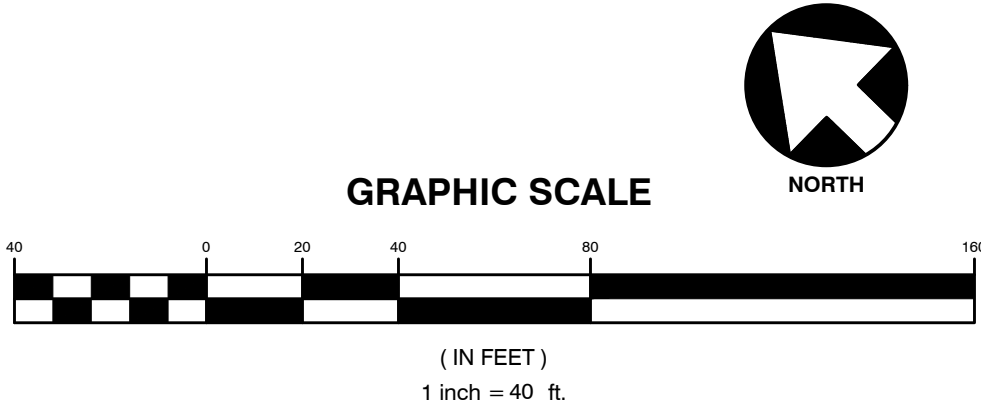


Contact 811 before you dig.



NOTES

NO PAVEMENT SEAMS WILL BE ALLOWED INSIDE THE TRAVEL LANE ON BART MANOUS ROAD. "CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL PAVING OUTSIDE OF THE R/W".



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GA COA #PEF00400

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REVISIONS	
No.	DESCRIPTION
1	
2	
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7	
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9	

PREPARED FOR
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116 N MAIN STREET
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PAVING PLAN

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
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24 HOUR CONTACT
LUKE BAILEY
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LANDLOT	DISTRICT
0115	6
PARCEL ID # 15-0115-0059	
DWN BY LO	CKD BY A&R JOB No. 24-011
DATE 01-31-2024	

SHEET IDENTIFICATION
CT-1201



NOT RELEASED
FOR CONSTRUCTION

SEAL

PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

SIGNING & STRIPING PLAN

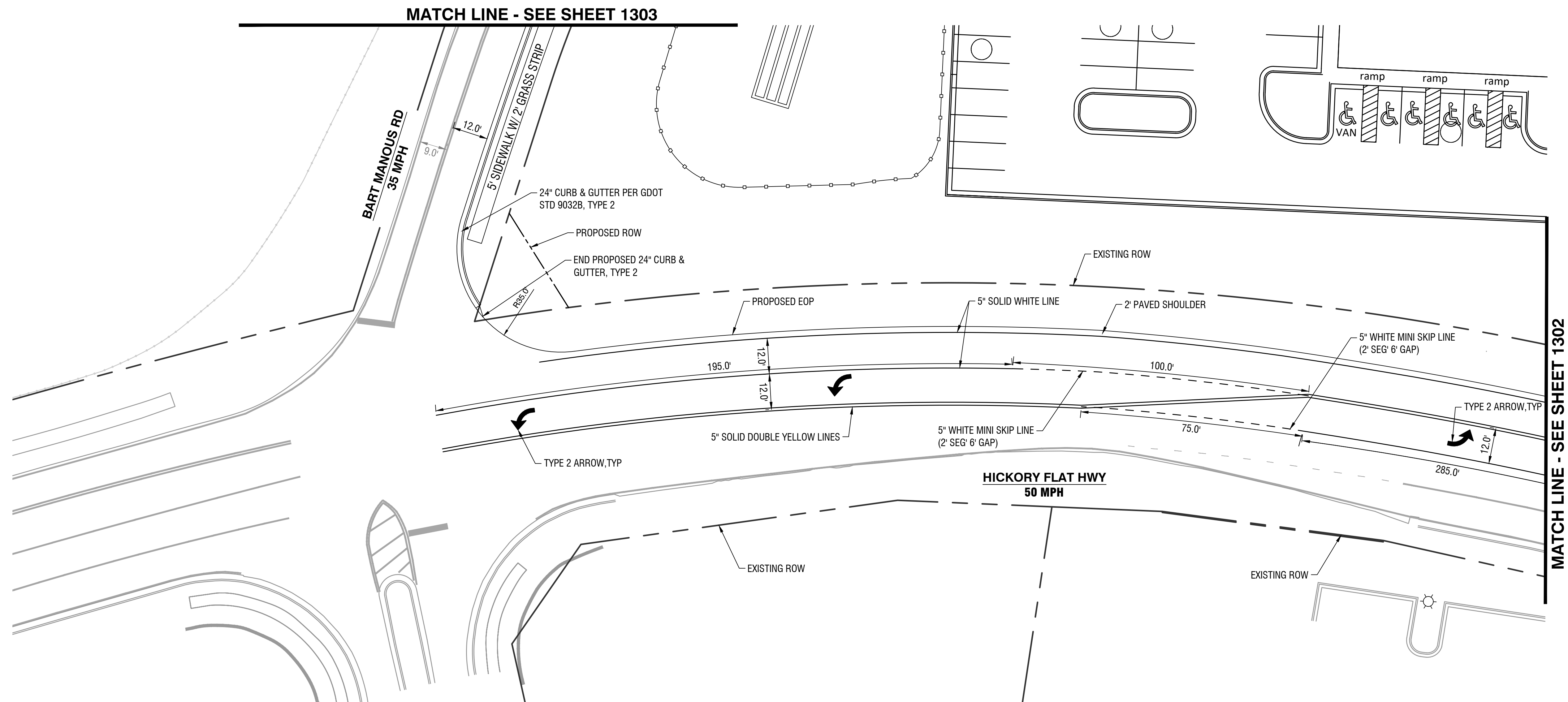
HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

DATE
01-31-2024

SHEET
IDENTIFICATION
CT-1301

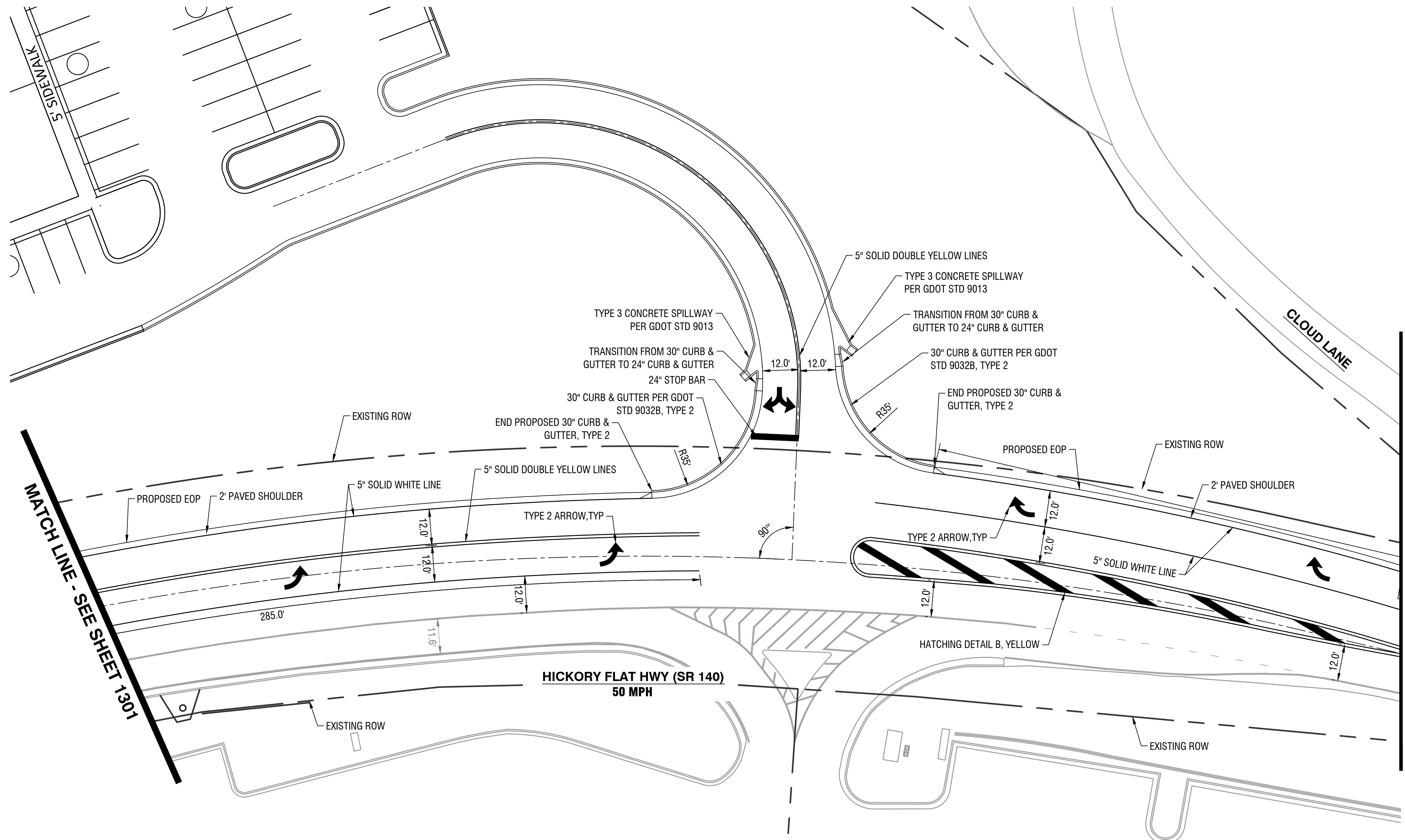
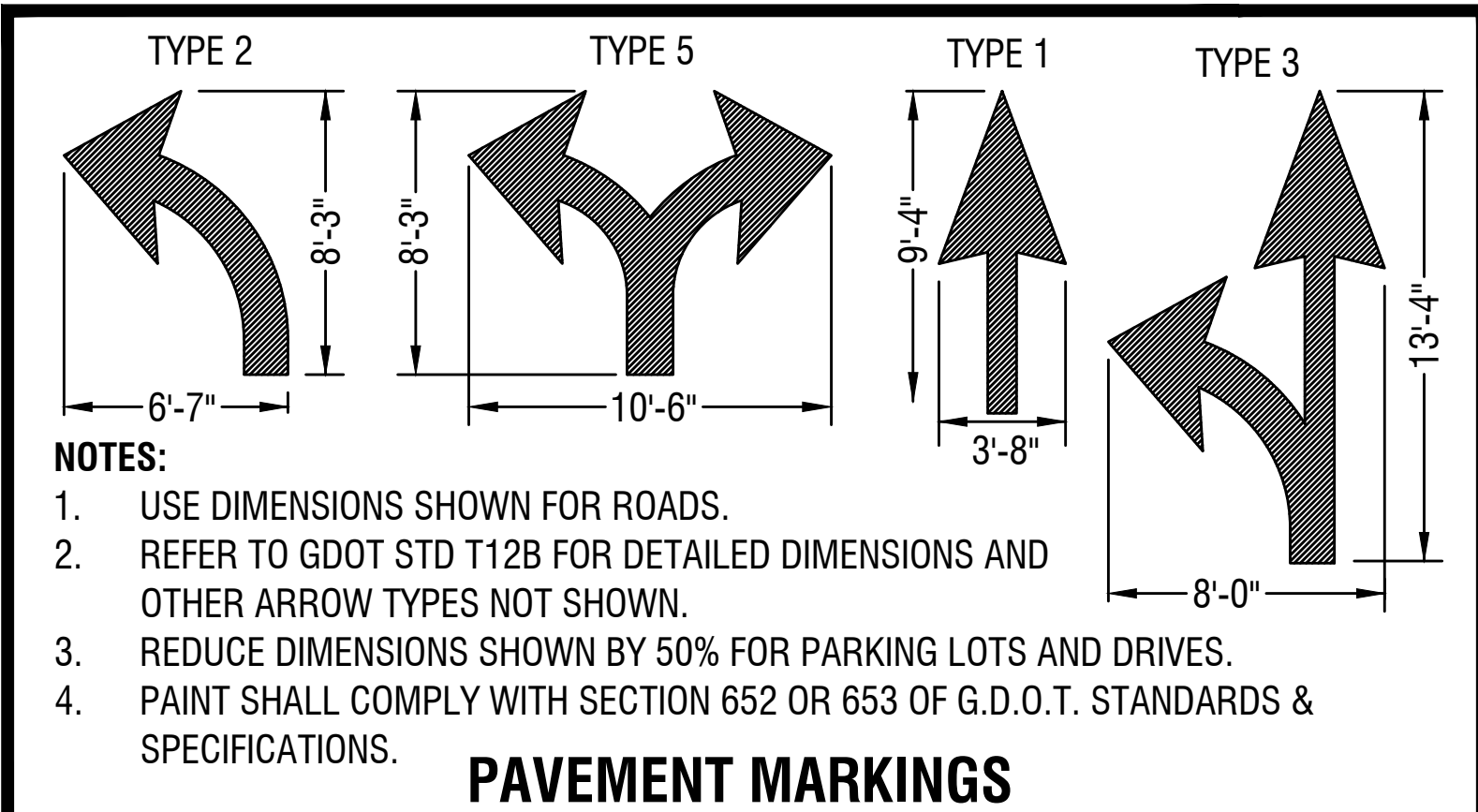
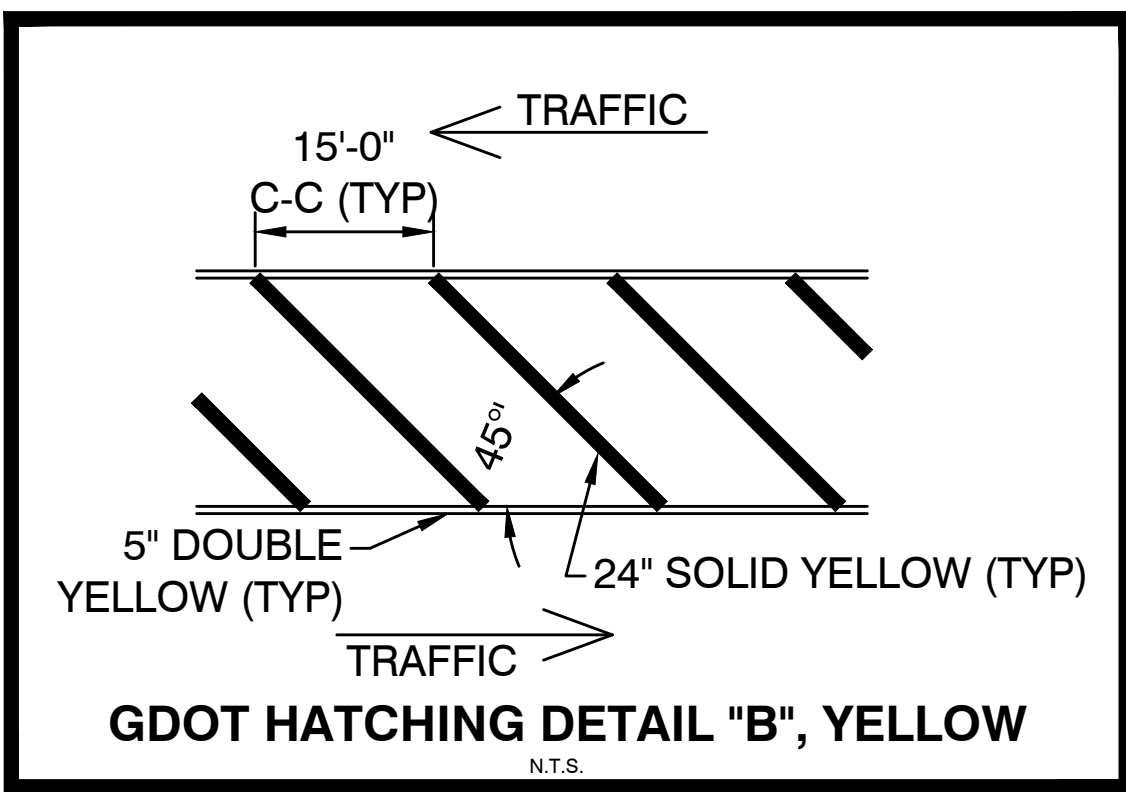


NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL SIGNING & STRIPING OUTSIDE OF THE R/W".

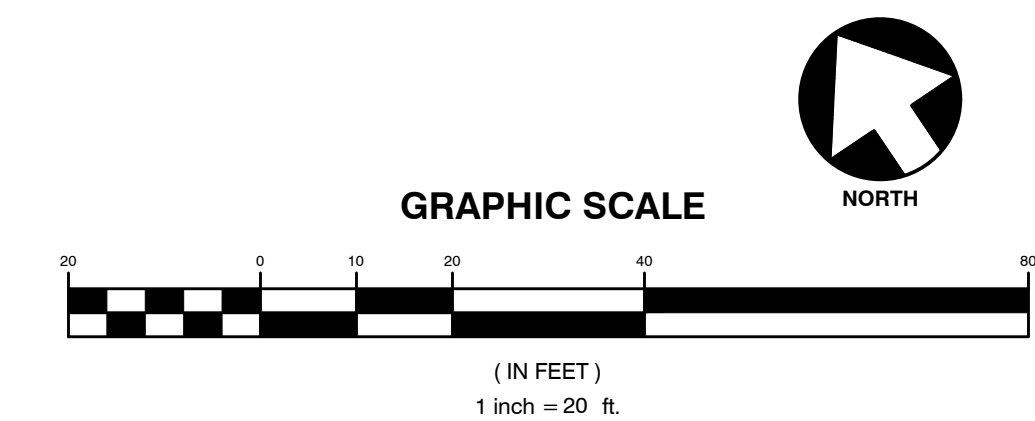


(IN FEET)
1 inch = 20 ft



NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL SIGNING & STRIPING OUTSIDE OF THE R/W".



A&R Engineering, Inc.
2160 Kingston Court, Ste O
Marietta, GA 30067
(770) 690-9255
www.areng.com
info@areng.com
GA COA #PEF00400

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PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

SIGNING & STRIPING PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6

PARCEL ID # 15-0115-0059

DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE 01-31-2024

SHEET IDENTIFICATION
CT-1302



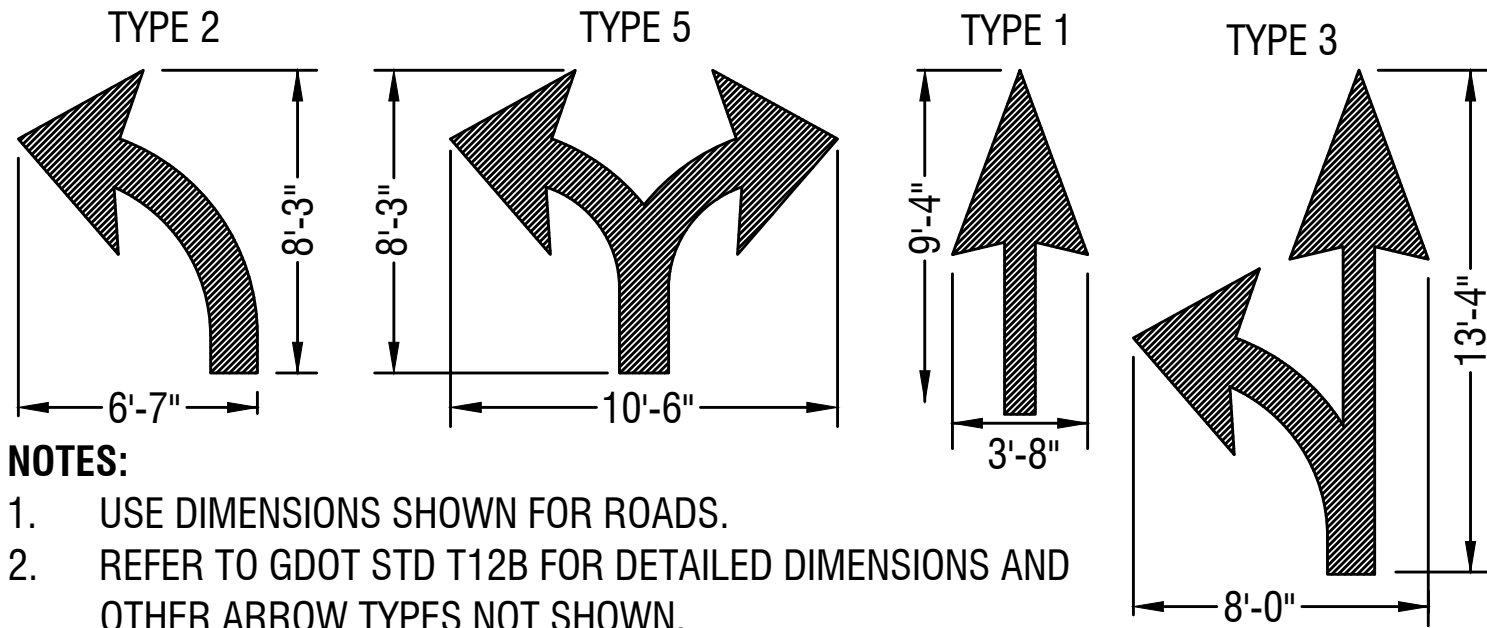
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MATCH LINE - SEE SHEET 1302

MATCH LINE - SEE SHEET 1301

NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL SIGNING & STRIPING OUTSIDE OF THE R/W".



PAVEMENT MARKINGS



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1		
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B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

SIGNING & STRIPING PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6

PARCEL ID # 15-0115-0059

DWN BY CKD BY A&R JOB No. 24-011

DATE 01-31-2024

SHEET IDENTIFICATION

CT-1303

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.





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5

4

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A

B

C

D

E

F

G

NIF
DURHAM JERRY
PARCEL #15N25081
280 BART MANOUS ROAD
DB 14553 PG 1585

NIF
J&N STORAGE LLC
PARCEL #15N25081A
280 BART MANOUS ROAD
DB 2774 PG 287

NIF
J&N STORAGE LLC
PARCEL #15N25081A
280 BART MANOUS ROAD
DB 2774 PG 287

FFE = 1122.0

NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL OVERALL GRADING OUTSIDE OF THE R/W".

A

B

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116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

OVERALL GRADING PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT DISTRICT
0115 6

PARCEL ID #
15-0115-0059

DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE
01-31-2024

SHEET
IDENTIFICATION

CT-1400

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

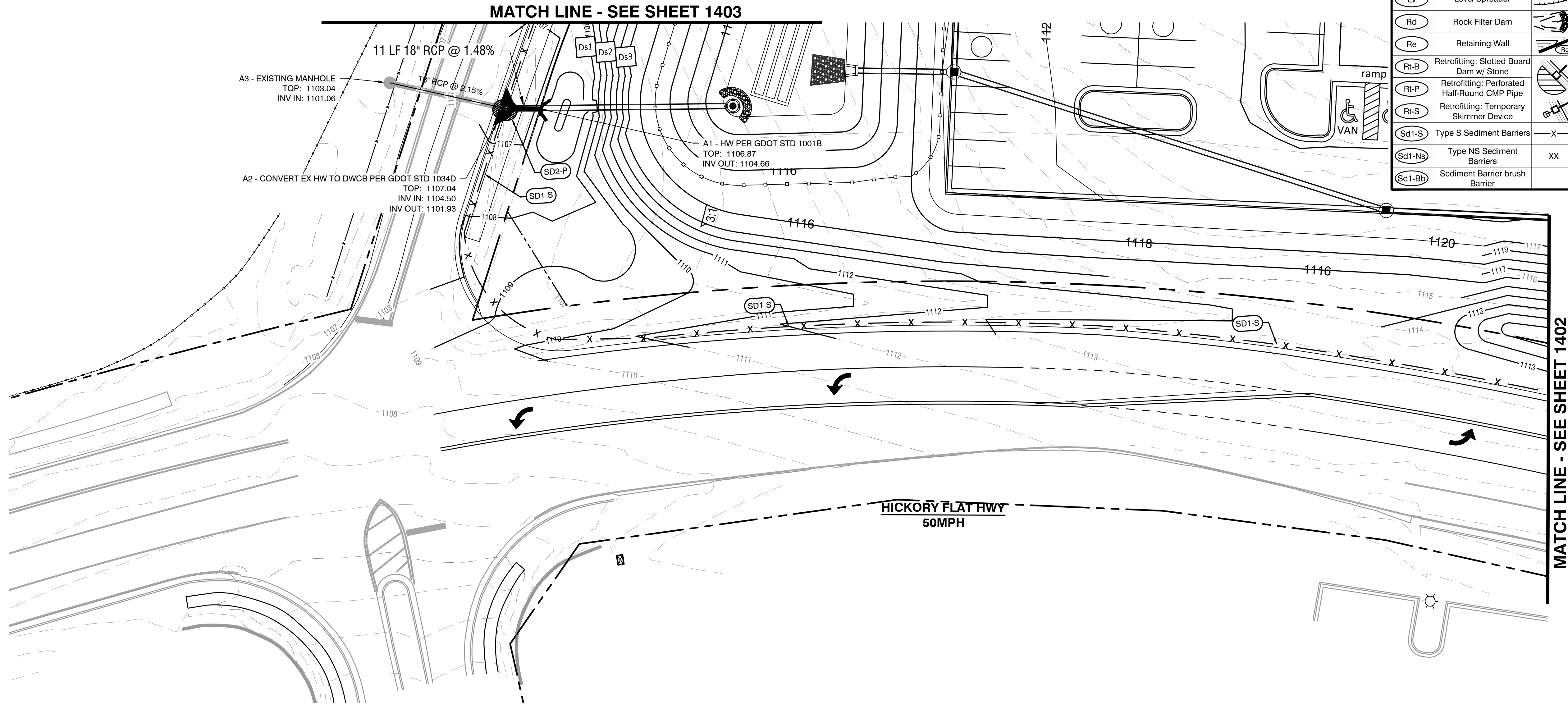


NORTH



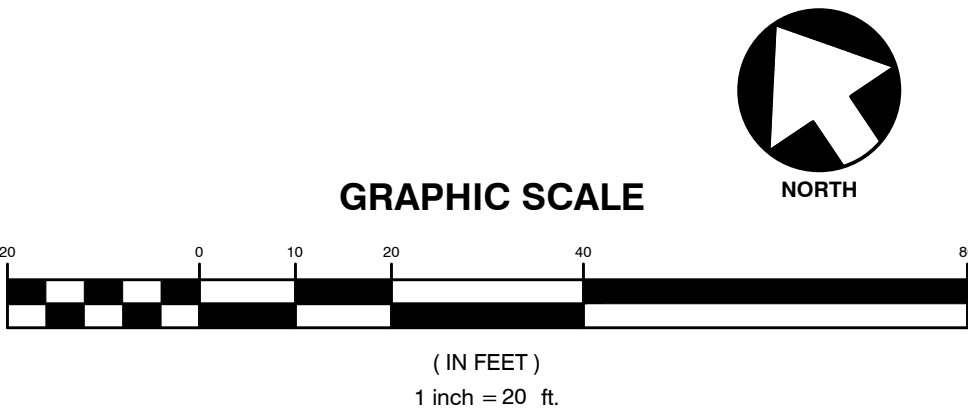
Contact 811 before you dig.

GEORGIA UNIFORM CODING SYSTEM					
EROSION & SEDIMENT CONTROL					
STRUCTURAL PRACTICES					
Code	Practice	Symbol	Code	Practice	Symbol
(Cd-Hb)	Haybale Check Dam		(Sd2-B)	Inlet Sediment Trap Baffle Box	
(Cd-S)	Stone Check Dam		(Sd2-Bg)	Inlet Sediment Trap Block & Gravel	
(Ch-3)	Channel Stabilization Concrete Lining		(Sd2-F)	Inlet Sediment Trap Filter Fabric w/ Frame	
(Ch-2)	Channel Stabilization Rip-Rap Lining		(Sd2-G)	Inlet Sediment Trap Gravel Inlet Protection	
(Ch-1)	Channel Stabilization Vegetated Lining		(Sd2-P)	Inlet Sediment Trap Curb Inlet Protection	
(Co)	Construction Exit		(Sd2-S)	Inlet Sediment Trap Sod Inlet Protection	
(Cr)	Construction Road Stabilization		(Sd3)	Temporary Sediment Basin	
(Di)	Diversion		(St)	Storm Drain Outlet Protection	
(Dn-1)	Temporary Downdrain Structure		(Su)	Surface Roughening	
(Dn-2)	Permanent Downdrain Structure		(Tp)	Topsailing	
(Fr)	Filter Ring		(Wt)	Vegetated Waterway or Conveyance Channel	
(Gr)	Grade Stabilization Structure		VEGETATIVE MEASURES		
(Lv)	Level Spreader		(Bf)	Buffer Zone	
(Rd)	Rock Filter Dam		(Ds1)	Disturbed Area Stabilization w/ Mulching Only	
(Re)	Retaining Wall		(Ds2)	Disturbed Area Stabilization w/ Temporary Seeding	
(Rt-B)	Retrofitting: Slotted Board Dam w/ Stone		(Ds3)	Disturbed Area Stabilization w/ Permanent Seeding	
(Rt-P)	Retrofitting: Perforated Half-Round CMP Pipe		(Ds4)	Disturbed Area Stabilization w/ Sodding	
(Rt-S)	Retrofitting: Temporary Skimmer Device		(Du)	Dust Control on Disturbed Areas	
(Sd1-S)	Type S Sediment Barriers		(Mb)	Erosion Control Matting & Blankets	
(Sd1-Ns)	Type NS Sediment Barriers		(Pm)	Polyacrylamide (PAM)	
(Sd1-Bb)	Sediment Barrier brush Barrier		(Tb)	Tackifiers & Binders	



NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL GRADING, E.C. & P.C. OUTSIDE OF THE R/W".



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PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

GRADING, E.C. & P.C. PLAN

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

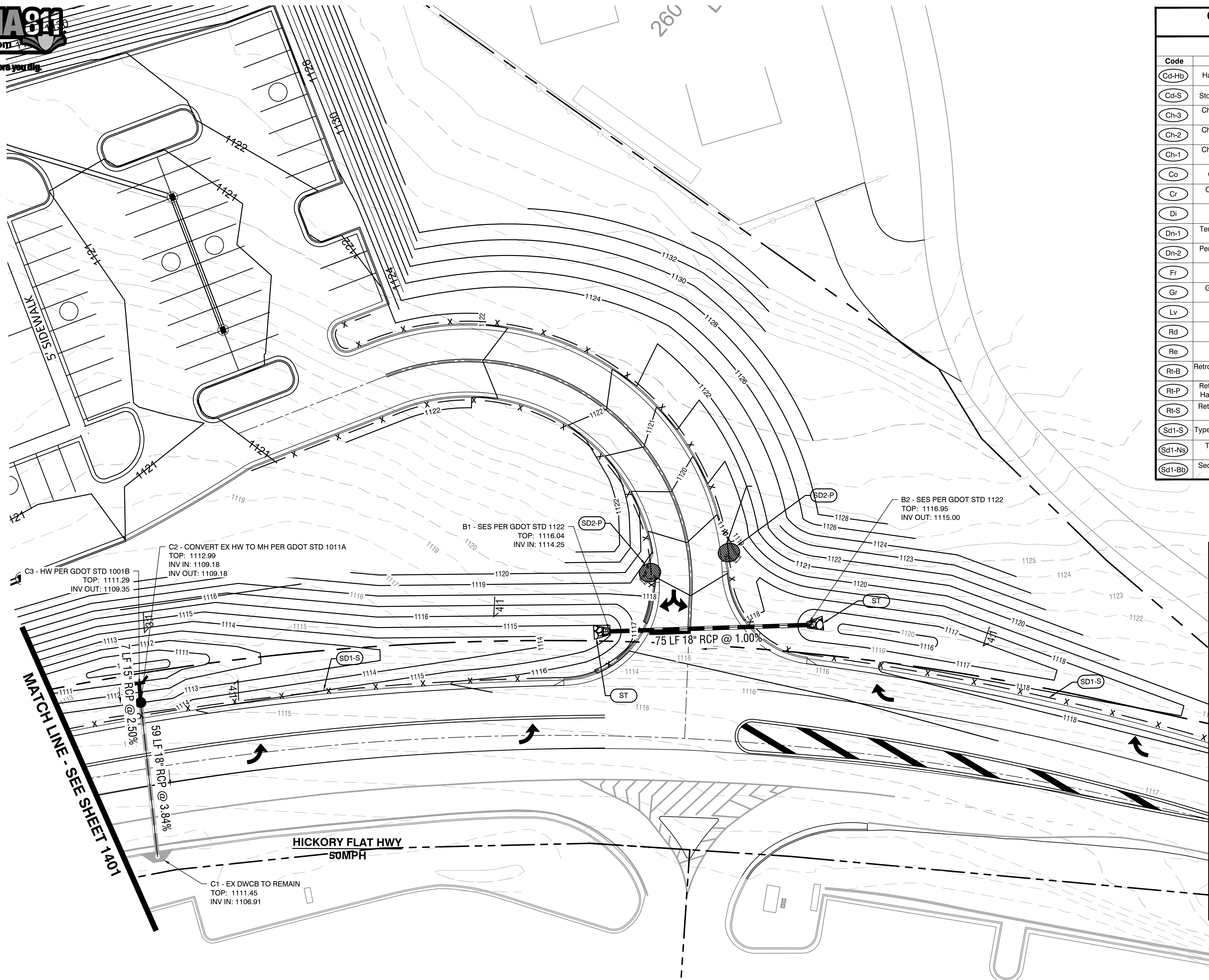
24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115	DISTRICT 6
PARCEL ID # 15-0115-0059	
DWN BY LO	CKD BY ----
	A&R JOB No. 24-011
DATE 01-31-2024	

SHEET
IDENTIFICATION
CT-1401



Contact 811 before you dig.



GEORGIA UNIFORM CODING SYSTEM EROSION & SEDIMENT CONTROL					
STRUCTURAL PRACTICES					
Code	Practice	Symbol	Code	Practice	Symbol
(Cd-Hb)	Haybale Check Dam		(Sd2-B)	Inlet Sediment Trap Baffle Box	
(Cd-S)	Stone Check Dam		(Sd2-Bg)	Inlet Sediment Trap Block & Gravel	
(Ch-3)	Channel Stabilization Concrete Lining		(Sd2-F)	Inlet Sediment Trap Filter Fabric w/ Frame	
(Ch-2)	Channel Stabilization Rip-Rap Lining		(Sd2-G)	Inlet Sediment Trap Gravel Inlet Protection	
(Ch-1)	Channel Stabilization Vegetated Lining		(Sd2-P)	Inlet Sediment Trap Curb Inlet Protection	
(Co)	Construction Exit		(Sd2-S)	Inlet Sediment Trap Sod Inlet Protection	
(Cr)	Construction Road Stabilization		(Sd3)	Temporary Sediment Basin	
(Di)	Diversion		(St)	Storm Drain Outlet Protection	
(Dn-1)	Temporary Downdrain Structure		(Su)	Surface Roughening	
(Dn-2)	Permanent Downdrain Structure		(Tp)	Topsailing	
(Fr)	Filter Ring		(Wt)	Vegetated Waterway or Conveyance Channel	
(Gr)	Grade Stabilization Structure		VEGETATIVE MEASURES		
(Lv)	Level Spreader		(Bf)	Buffer Zone	
(Rd)	Rock Filter Dam		(Ds1)	Disturbed Area Stabilization w/ Mulching Only	
(Re)	Retaining Wall		(Ds2)	Disturbed Area Stabilization w/ Temporary Seeding	
(Rt-B)	Retrofitting: Slotted Board Dam w/ Stone		(Ds3)	Disturbed Area Stabilization w/ Permanent Seeding	
(Rt-P)	Retrofitting: Perforated Half-Round CMP Pipe		(Ds4)	Disturbed Area Stabilization w/ Sodding	
(Rt-S)	Retrofitting: Temporary Skimmer Device		(Du)	Dust Control on Disturbed Areas	
(Sd1-S)	Type S Sediment Barriers		(Mb)	Erosion Control Matting & Blankets	
(Sd1-Ns)	Type NS Sediment Barriers		(Pm)	Polyacrylamide (PAM)	
(Sd1-Bb)	Sediment Barrier brush Barrier		(Tb)	Tackifiers & Binders	



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PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

GRADING, E.C. & P.C. PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6

PARCEL ID # 15-0115-0059

DWN BY CKD BY A&R JOB No. 24-011

DATE 01-31-2024

SHEET IDENTIFICATION

CT-1402

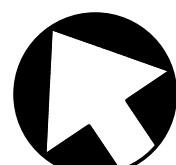
NOTES

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GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.





Contact 811 before you dig.

MATCH LINE - SEE SHEET 1402

HICKORY FLAT HWY
50MPH

BART MANOUS RD
35 MPH

MATCH LINE - SEE SHEET 1401

NOTES

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GEORGIA UNIFORM CODING SYSTEM EROSION & SEDIMENT CONTROL					
STRUCTURAL PRACTICES					
Code	Practice	Symbol	Code	Practice	Symbol
(Cd-Hb)	Haybale Check Dam		(Sd2-B)	Inlet Sediment Trap Baffle Box	
(Cd-S)	Stone Check Dam		(Sd2-Bg)	Inlet Sediment Trap Block & Gravel	
(Ch-3)	Channel Stabilization Concrete Lining		(Sd2-F)	Inlet Sediment Trap Filter Fabric w/ Frame	
(Ch-2)	Channel Stabilization Rip-Rap Lining		(Sd2-G)	Inlet Sediment Trap Gravel Inlet Protection	
(Ch-1)	Channel Stabilization Vegetated Lining		(Sd2-P)	Inlet Sediment Trap Curb Inlet Protection	
(Co)	Construction Exit		(Sd2-S)	Inlet Sediment Trap Sod Inlet Protection	
(Cr)	Construction Road Stabilization		(Sd3)	Temporary Sediment Basin	
(Di)	Diversion		(St)	Storm Drain Outlet Protection	
(Dn-1)	Temporary Downdrain Structure		(Su)	Surface Roughening	
(Dn-2)	Permanent Downdrain Structure		(Tp)	Topsailing	
(Fr)	Filter Ring		(Wt)	Vegetated Waterway or Conveyance Channel	
(Gr)	Grade Stabilization Structure		VEGETATIVE MEASURES		
(Lv)	Level Spreader		(Bf)	Buffer Zone	(Bf)
(Rd)	Rock Filter Dam		(Ds1)	Disturbed Area Stabilization w/ Mulching Only	(Ds1)
(Re)	Retaining Wall		(Ds2)	Disturbed Area Stabilization w/ Temporary Seeding	(Ds2)
(Rt-B)	Retrofitting: Slotted Board Dam w/ Stone		(Ds3)	Disturbed Area Stabilization w/ Permanent Seeding	(Ds3)
(Rt-P)	Retrofitting: Perforated Half-Round CMP Pipe		(Ds4)	Disturbed Area Stabilization w/ Sodding	(Ds4)
(Rt-S)	Retrofitting: Temporary Skimmer Device		(Du)	Dust Control on Disturbed Areas	(Du)
(Sd1-S)	Type S Sediment Barriers	X	(Mb)	Erosion Control Matting & Blankets	(Mb)
(Sd1-NS)	Type NS Sediment Barriers	XX	(Pm)	Polyacrylamide (PAM)	(Pm)
(Sd1-Bb)	Sediment Barrier brush Barrier		(Tb)	Tackifiers & Binders	(Tb)



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770-205-6181

GRADING, E.C. & P.C. PLAN

HICKORY FLAT HWY MEDICAL OFFICE

DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6

PARCEL ID # 15-0115-0059

DWN BY CKD BY A&R JOB No. 24-011

DATE 01-31-2024

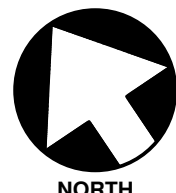
SHEET IDENTIFICATION

CT-1403

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.





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UTILITY PLAN

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT DISTRICT
0115 6

PARCEL ID #
15-0115-0059

DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE
01-31-2024

SHEET
IDENTIFICATION

CT-1501

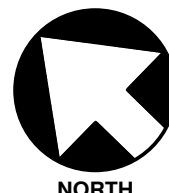
NOTES

"CONTRACTOR SHALL COORDINATE WITH PLANS PREPARED BY B.C. ENGINEERING FOR ALL UTILITIES OUTSIDE OF THE R/W".

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



NORTH



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Marietta, GA 30067
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PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

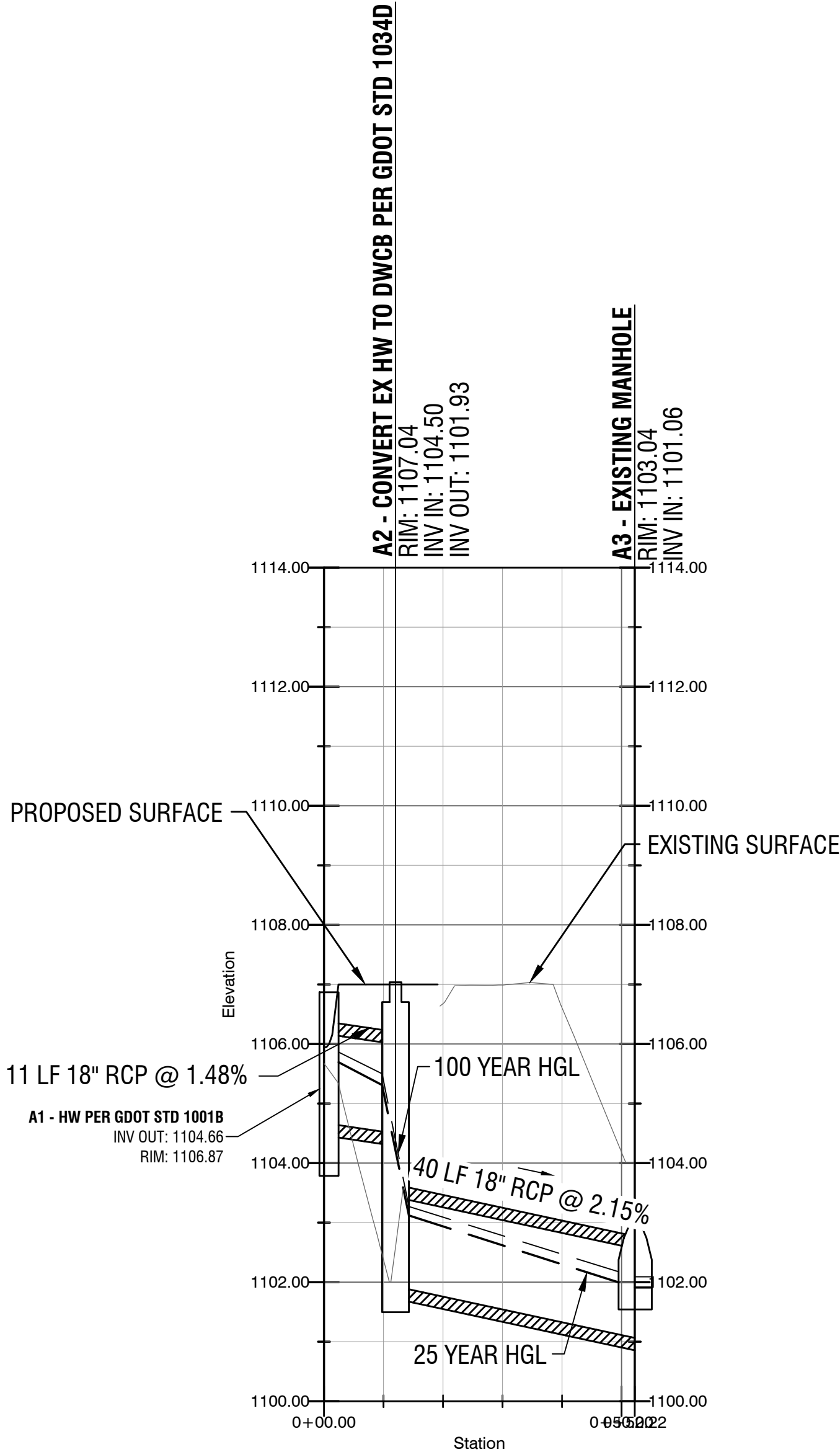
STORM PROFILE

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

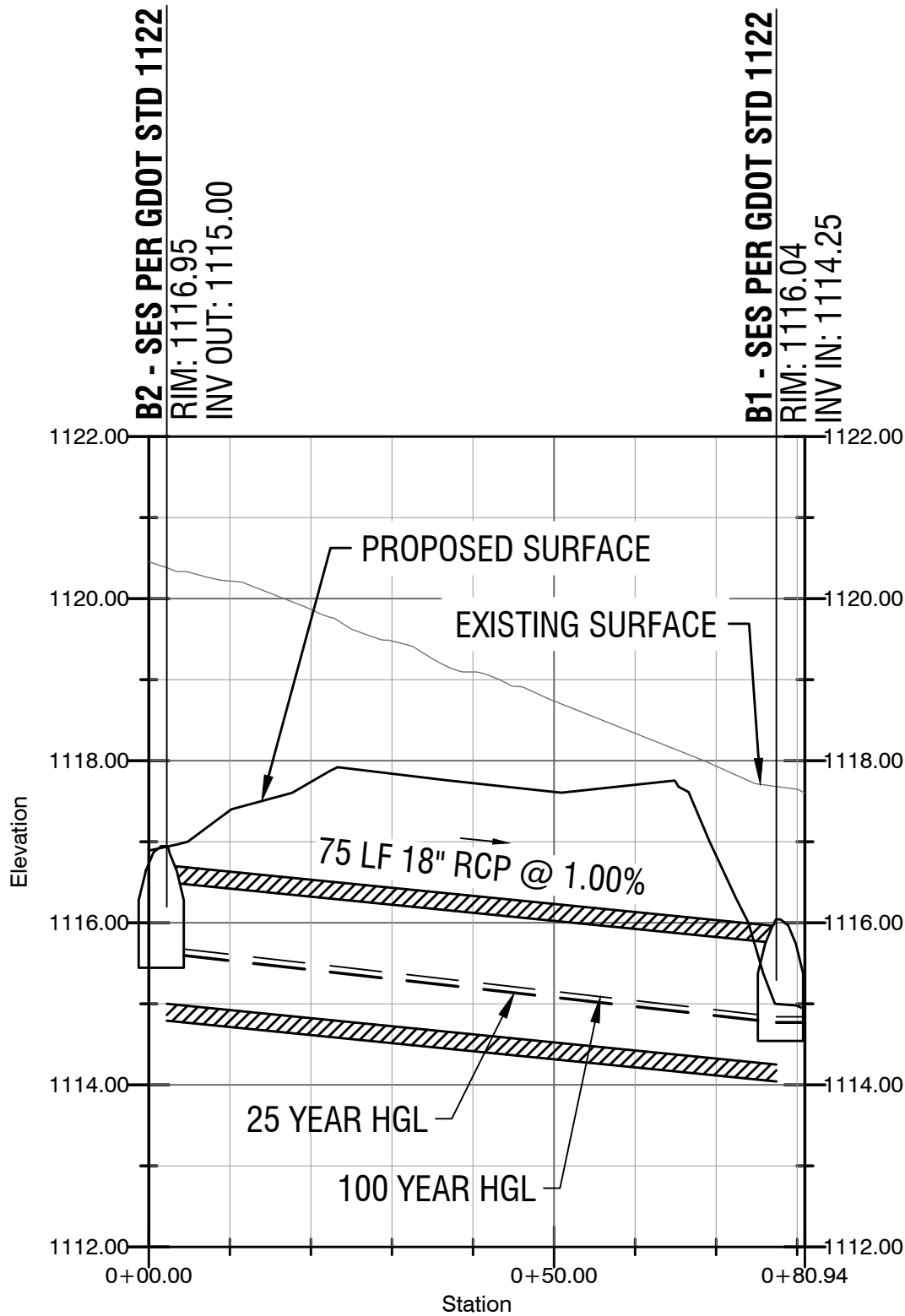
24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6
PARCEL ID # 15-0115-0059
DWN BY CKD BY A&R JOB No. 24-011
LO -----
DATE 01-31-2024

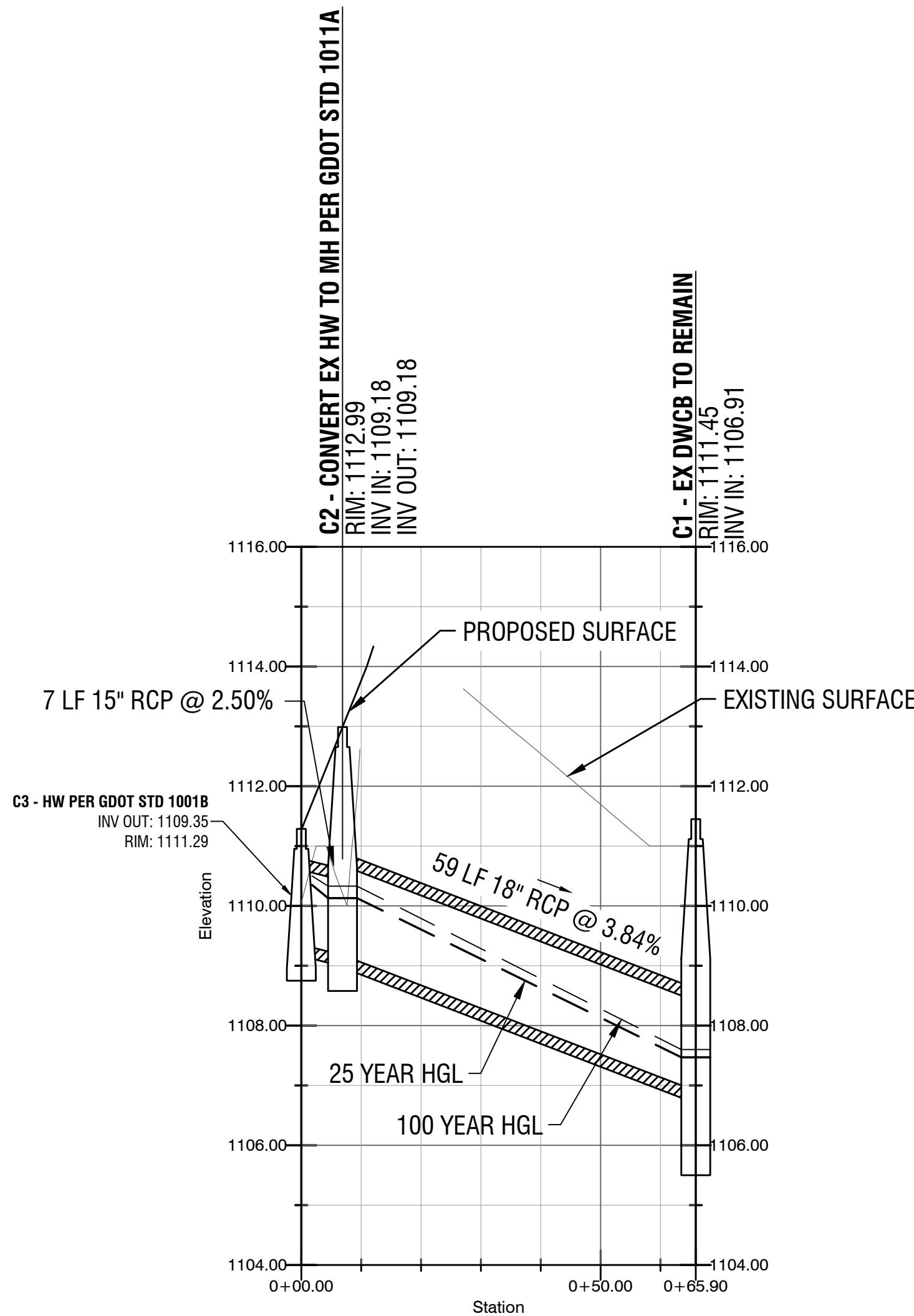
SHEET
IDENTIFICATION
CT-2201



A RUN PROFILE
HORIZONTAL SCALE - 1:20
VERTICLE SCALE - 1:2



B RUN PROFILE
HORIZONTAL SCALE - 1:20
VERTICLE SCALE - 1:2

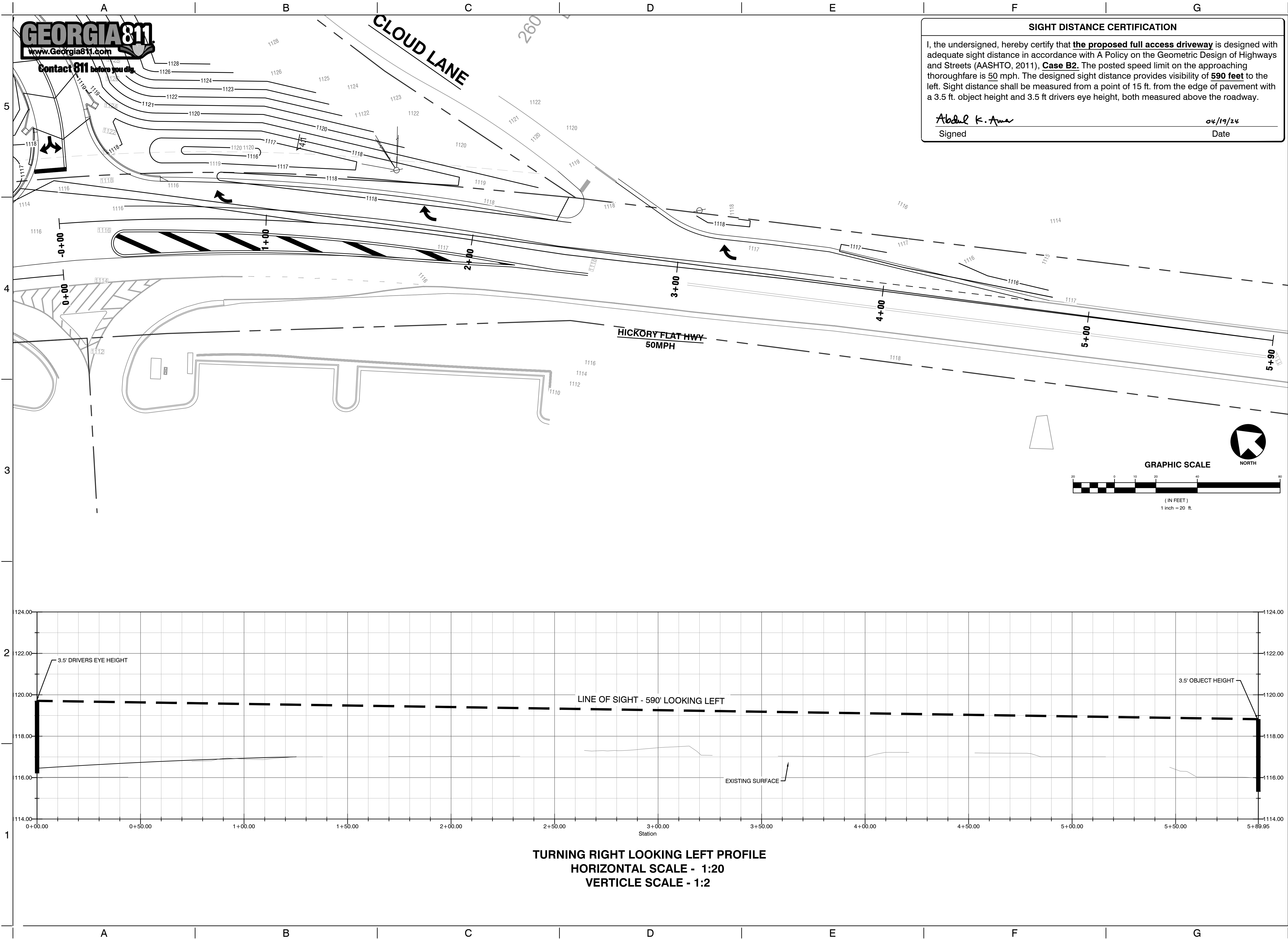


C RUN PROFILE
HORIZONTAL SCALE - 1:20
VERTICLE SCALE - 1:2

		UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	IMPERVIOUS AREA (sf)	IMPERVIOUS AREA (AC)	PERVIOUS AREA (sf)	PERVIOUS AREA (AC)	TOTAL AREA (sf)	TOTAL AREA (AC)	RUNOFF COEFFICIENT	STORM INTENSITY (IN/HR)	TIME OF CONC. (MIN)	Adjustment Factor	FLOW Q (CFS)	ADD FLOW, Q (CFS)	TOTAL Q (CFS)	PIPE SIZE (IN)	PIPE LENGTH (FT)	PIPE MATERIAL	SLOPE (%)	MAX CAPACITY (CFS)	PERCENT FULL	VELOCITY (FT/S)	HGL		GUTTER SPREAD CALCS (ft)
				0.98	0.98	0	0.45				25 Year			25 Year	25 Year	25 Year							25 Year	UPSTREAM	DOWNSTREAM	
											100 Year			100 Year	100 Year	100 Year							100 Year			
A-RUN	25YR	A1 - HW	A2 - EX HW TO DWCB			16428	0.38	16428	0.38	0.45	9.77	5.00	1.10	1.84	5.36	7.20	18.00	11 FT	RCP	1.48%	12.81	56.21%	6.43	1105.70	1105.31	
		A2 - EX HW TO DWCB	A3-EX SES	9237.796	0.21	2607	0.06	11845	0.27	0.86	9.77	5.00	1.10	2.50		9.70	18.00	40 FT	RCP	2.15%	15.44	62.82%	7.74	1103.12	1101.91	6.42
	100YR	A1 - HW	A2 - EX HW TO DWCB			16428	0.38	16428	0.38	0.45	12.40	5.00	1.25	2.65	7.14	9.79	18.00	11 FT	RCP	1.48%	12.81	76.42%	7.14	1105.87	1105.50	
		A2 - EX HW TO DWCB	A3-EX SES	9237.796	0.21	2607	0.06	11845	0.27	0.86	12.40	5.00	1.25	3.60		13.39	18.00	40 FT	RCP	2.15%	15.44	86.72%	8.68	1103.27	1102.09	7.32

		UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	IMPERVIOUS AREA (sf)	IMPERVIOUS AREA (AC)	PERVIOUS AREA (sf)	PERVIOUS AREA (AC)	TOTAL AREA (sf)	TOTAL AREA (AC)	RUNOFF COEFFICIENT	STORM INTENSITY (IN/HR)	TIME OF CONC. (MIN)	Adjustment Factor	FLOW Q (CFS)	ADD FLOW, Q (CFS)	TOTAL Q (CFS)	PIPE SIZE (IN)	PIPE LENGTH (FT)	PIPE MATERIAL	SLOPE (%)	MAX CAPACITY (CFS)	PERCENT FULL	VELOCITY (FT/S)	HGL	
				0.98	0.98	0	0.45				25 Year			25 Year	25 Year	25 Year							25 Year	UPSTREAM	DOWNSTREAM
											100 Year			100 Year	100 Year	100 Year							100 Year		
B-RUN	25YR	B2 - SES	B1 - SES	1408.184	0.03	12935	0.30	14343	0.33	0.50	9.77	5.00	1.10	1.77		1.77	18.00	75 FT	RCP	1.00%	10.53	16.81%	3.82	1115.48	1114.65
	100YR	B2 - SES	B1 - SES	1408.184	0.03	12935	0.30	14343	0.33	0.50	12.40	5.00	1.25	2.56		2.56	18.00	75 FT	RCP	1.00%	10.53	24.31%	4.09	1115.54	1114.70

		UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	IMPERVIOUS AREA (sf)	IMPERVIOUS AREA (AC)	PERVIOUS AREA (sf)	PERVIOUS AREA (AC)	TOTAL AREA (sf)	TOTAL AREA (AC)	RUNOFF COEFFICIENT	STORM INTENSITY (IN/HR)	TIME OF CONC. (MIN)	Adjustment Factor	FLOW Q (CFS)	ADD FLOW, Q (CFS)	TOTAL Q (CFS)	PIPE SIZE (IN)	PIPE LENGTH (FT)	PIPE MATERIAL	SLOPE (%)	MAX CAPACITY (CFS)	PERCENT FULL	VELOCITY (FT/S)	HGL	
				0.98	0.98	0	0.45				25 Year			25 Year	25 Year	25 Year							25 Year	UPSTREAM	DOWNSTREAM
											100 Year			100 Year	100 Year	100 Year							100 Year		
C-RUN	25YR	C3 - HW	C2 - EX HW TO MH	1608.053	0.04	24631	0.57	26239	0.61	0.48	9.77	5.00	1.10	3.15	2.95	6.10	18.00	7 FT	RCP	1.48%	12.81	47.62%	5.94	1110.35	1110.13
		C2 - EX HW TO MH	C1-EX DWCB								9.77	5.00	1.10			6.10	18.00	59 FT	RCP	2.15%	15.44	39.51%	7.65	1110.13	1107.47
	100YR	C3 - HW	C2 - EX HW TO MH	1608.053	0.04	24631	0.57	26239	0.61	0.48	12.40	5.00	1.25	4.54	4.25	8.79	18.00	7 FT	RCP	1.48%	12.81	68.62%	7.45	1110.50	1110.33
		C2 - EX HW TO MH	C1-EX DWCB								12.40	5.00	1.25			8.79	18.00	59 FT	RCP	2.15%	15.44	56.93%	8.63	1110.33	1107.60



A&R Engineering, Inc.
2160 Kingston Court, Ste O
Marietta, GA 30067
(770) 690-9255
www.areng.com
info@areng.com
GA COA #PEF00400

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FOR CONSTRUCTION

SEAL

PREPARED FOR
B.C. ENGINEERING, INC

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

SIGHT DISTANCE

HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA. 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6

PARCEL ID # 15-0115-0059

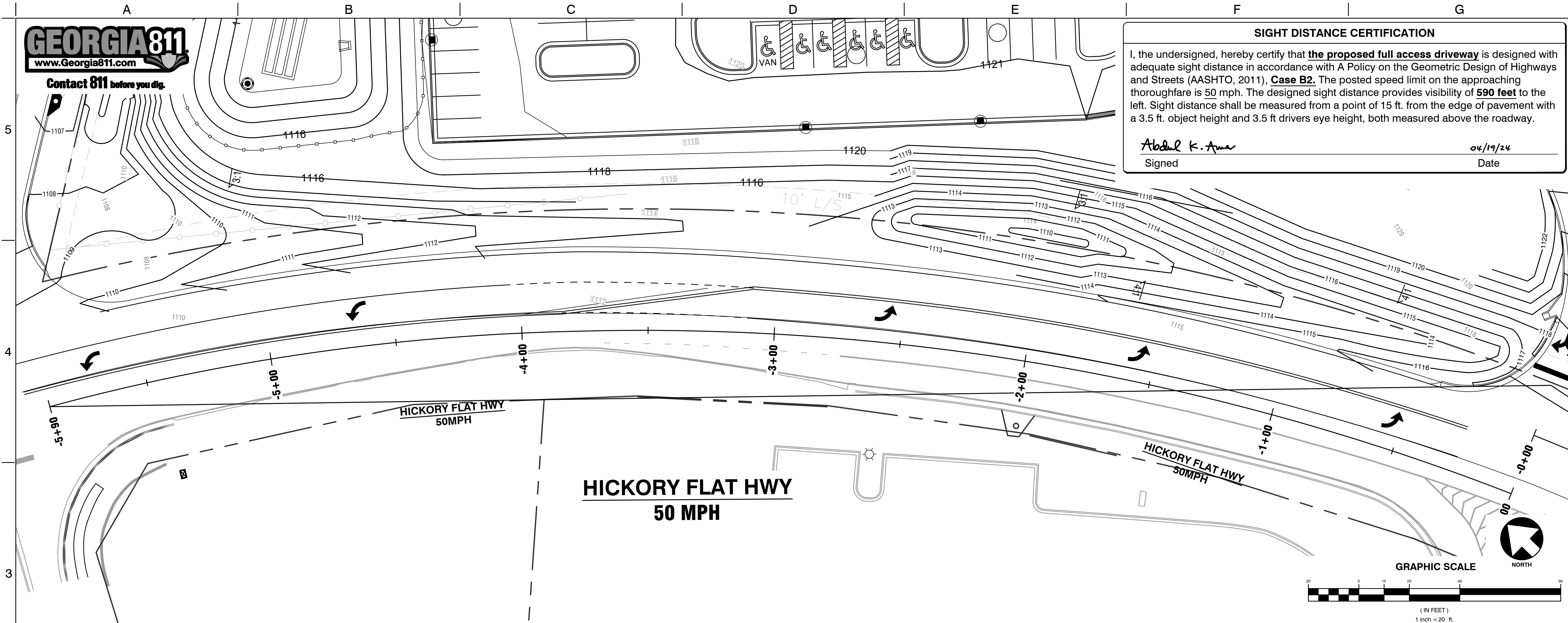
DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE 01-31-2024

SHEET IDENTIFICATION
CT-2401



Contact 811 before you dig.



SIGHT DISTANCE CERTIFICATION

I, the undersigned, hereby certify that **the proposed full access driveway** is designed with adequate sight distance in accordance with A Policy on the Geometric Design of Highways and Streets (AASHTO, 2011), **Case B2**. The posted speed limit on the approaching thoroughfare is 50 mph. The designed sight distance provides visibility of **590 feet** to the left. Sight distance shall be measured from a point of 15 ft. from the edge of pavement with a 3.5 ft. object height and 3.5 ft drivers eye height, both measured above the roadway.

Abdul K. Am
Signed
Date 04/19/24



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REVISIONS

DATE

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SIGHT DISTANCE

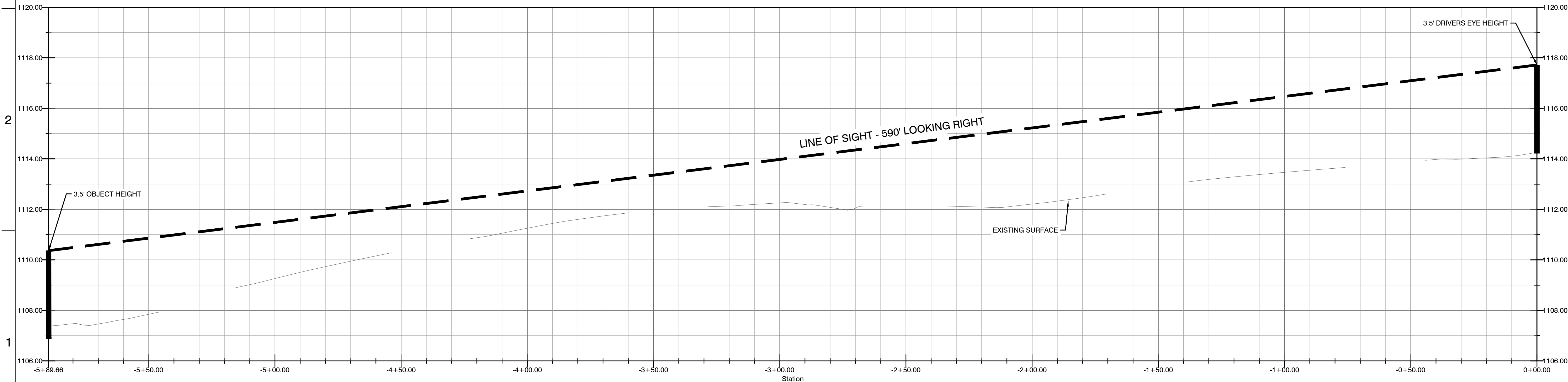
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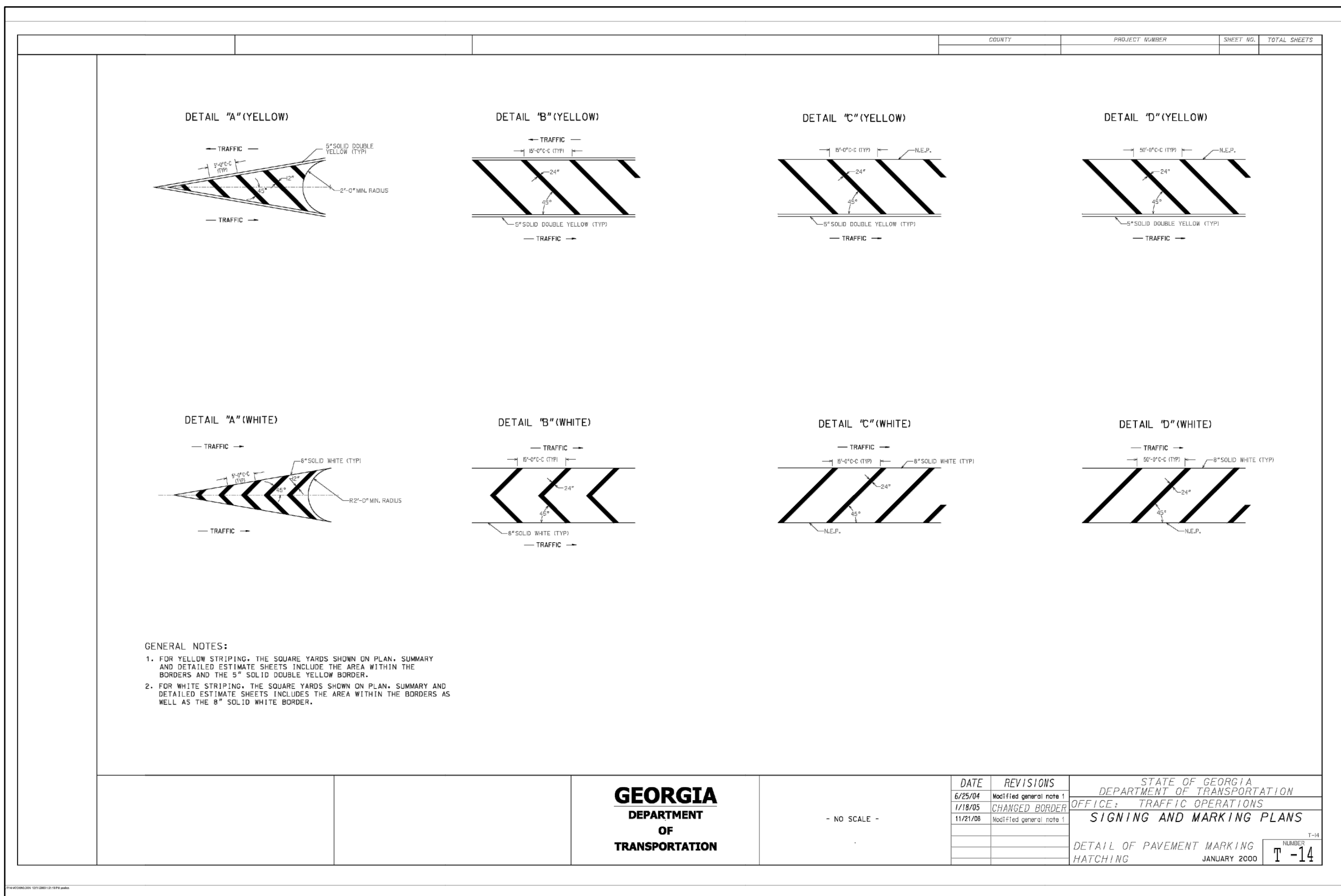
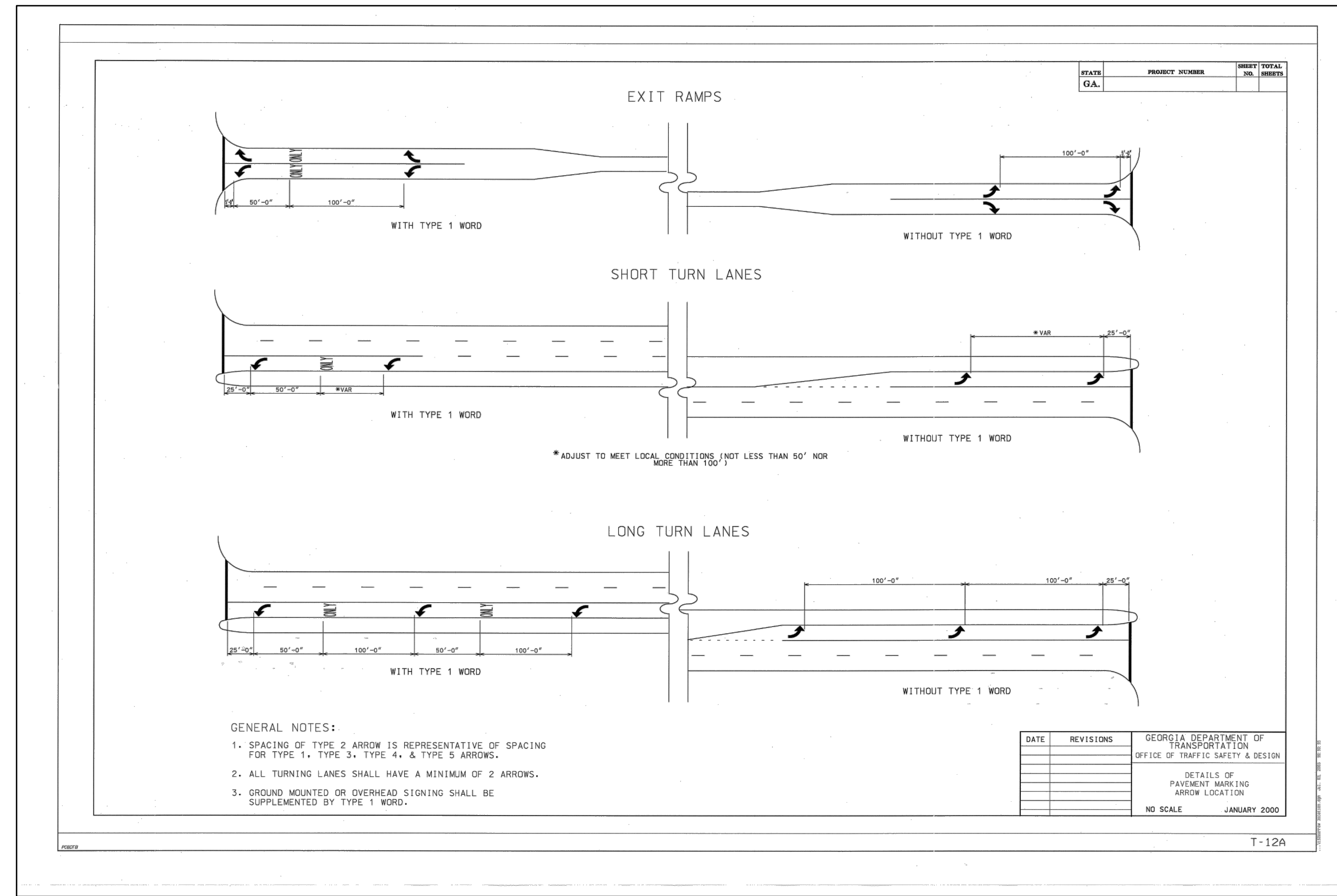
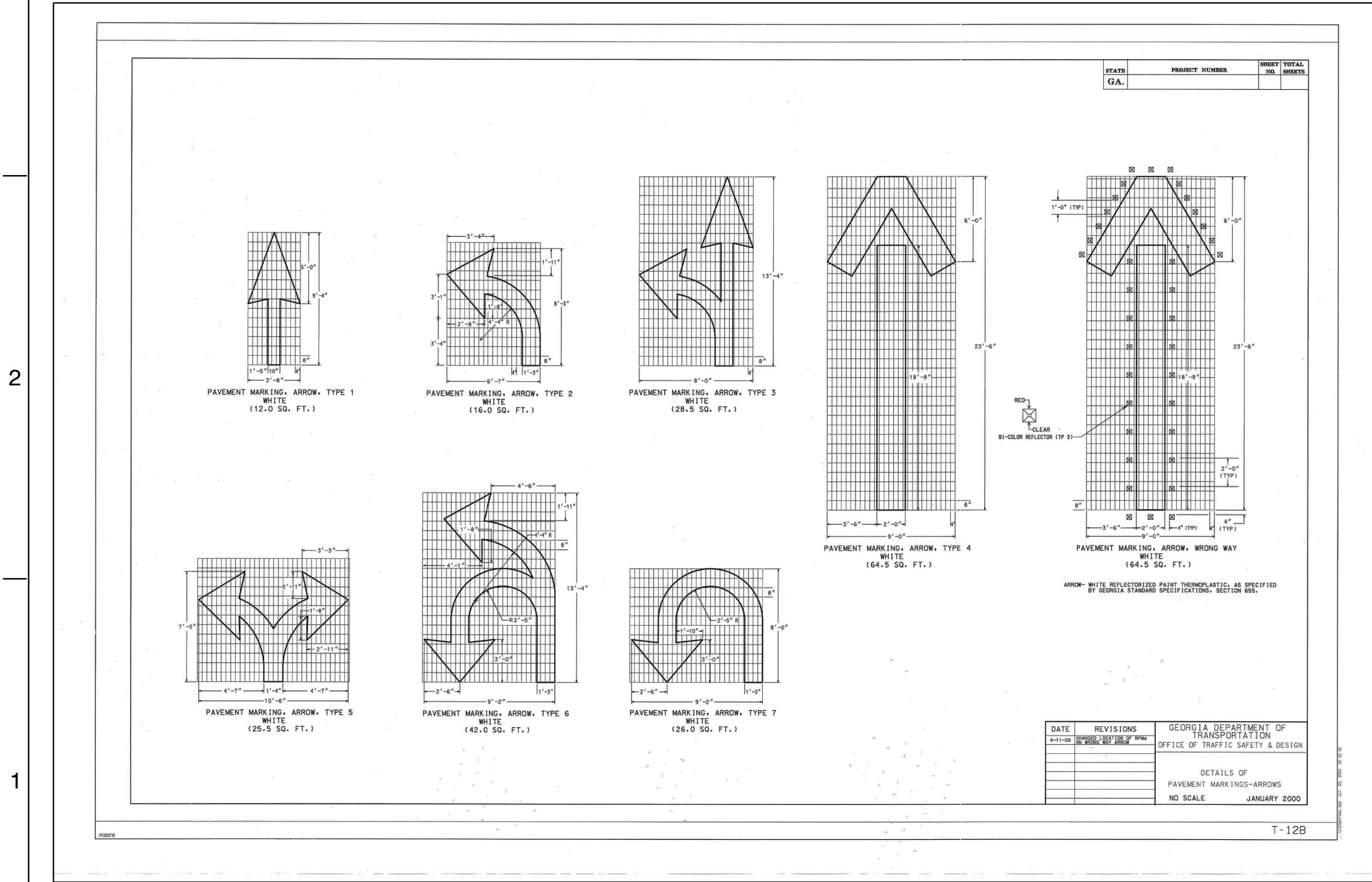
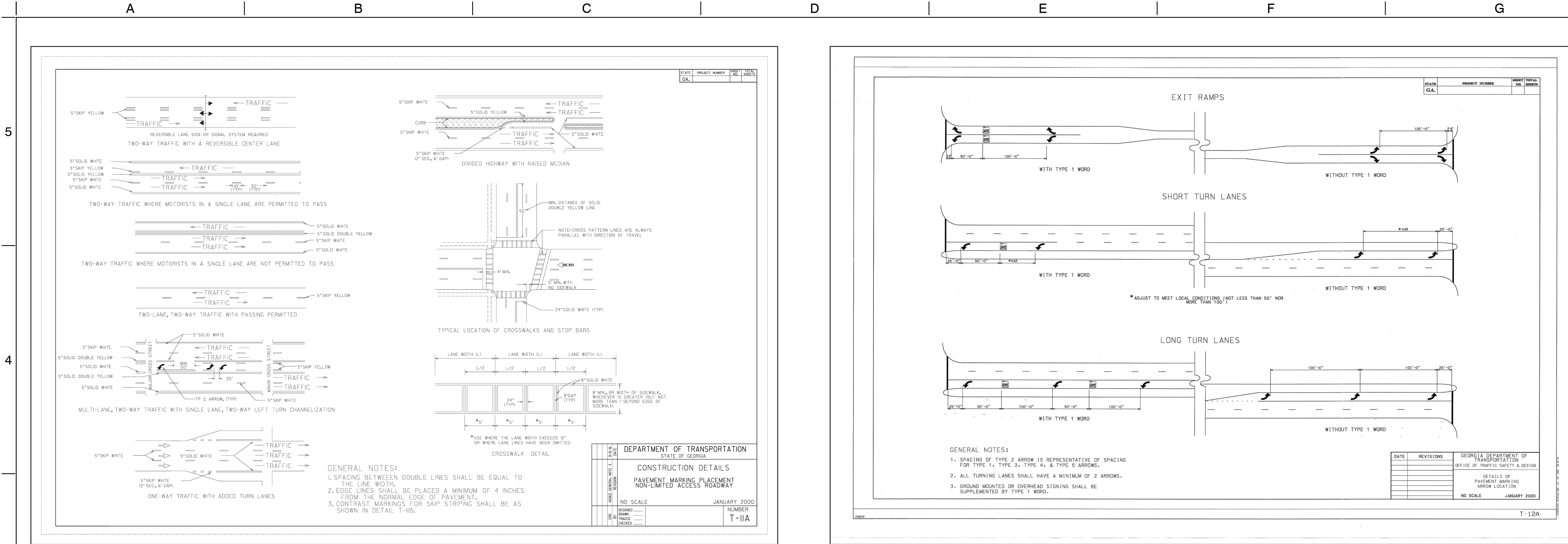
LANDLOT 0115 DISTRICT 6
PARCEL ID # 15-0115-0059
DWN BY CKD BY A&R JOB No.
LO ---- 24-011

DATE
01-31-2024

SHEET
IDENTIFICATION
CT-2402



TURNING LEFT LOOKING RIGHT PROFILE
HORIZONTAL SCALE - 1:20
VERTICLE SCALE - 1:2



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REVISIONS
DESCRIPTION

DATE

PREPARED FOR
B.C. ENGINEERING, INC
116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

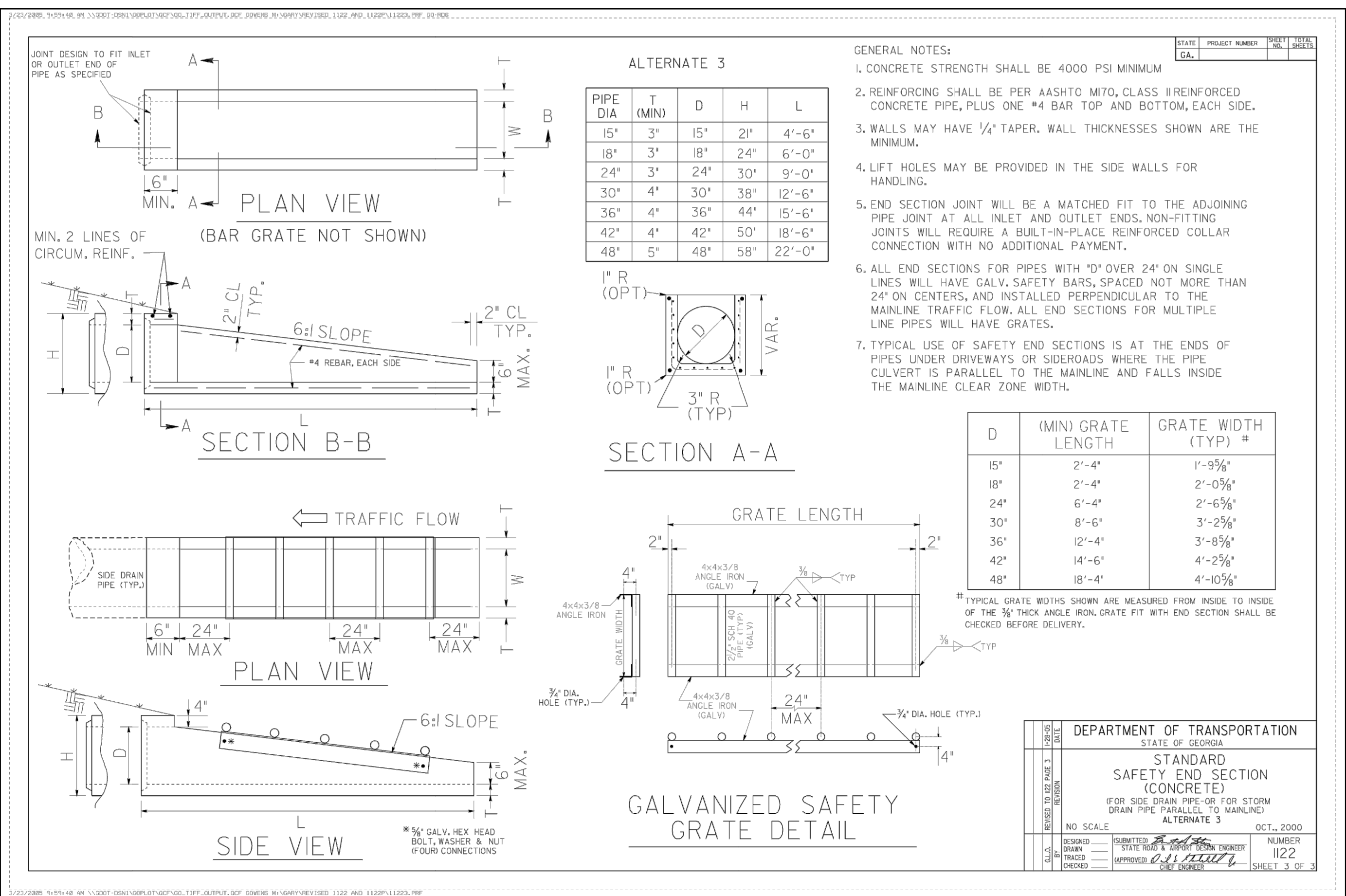
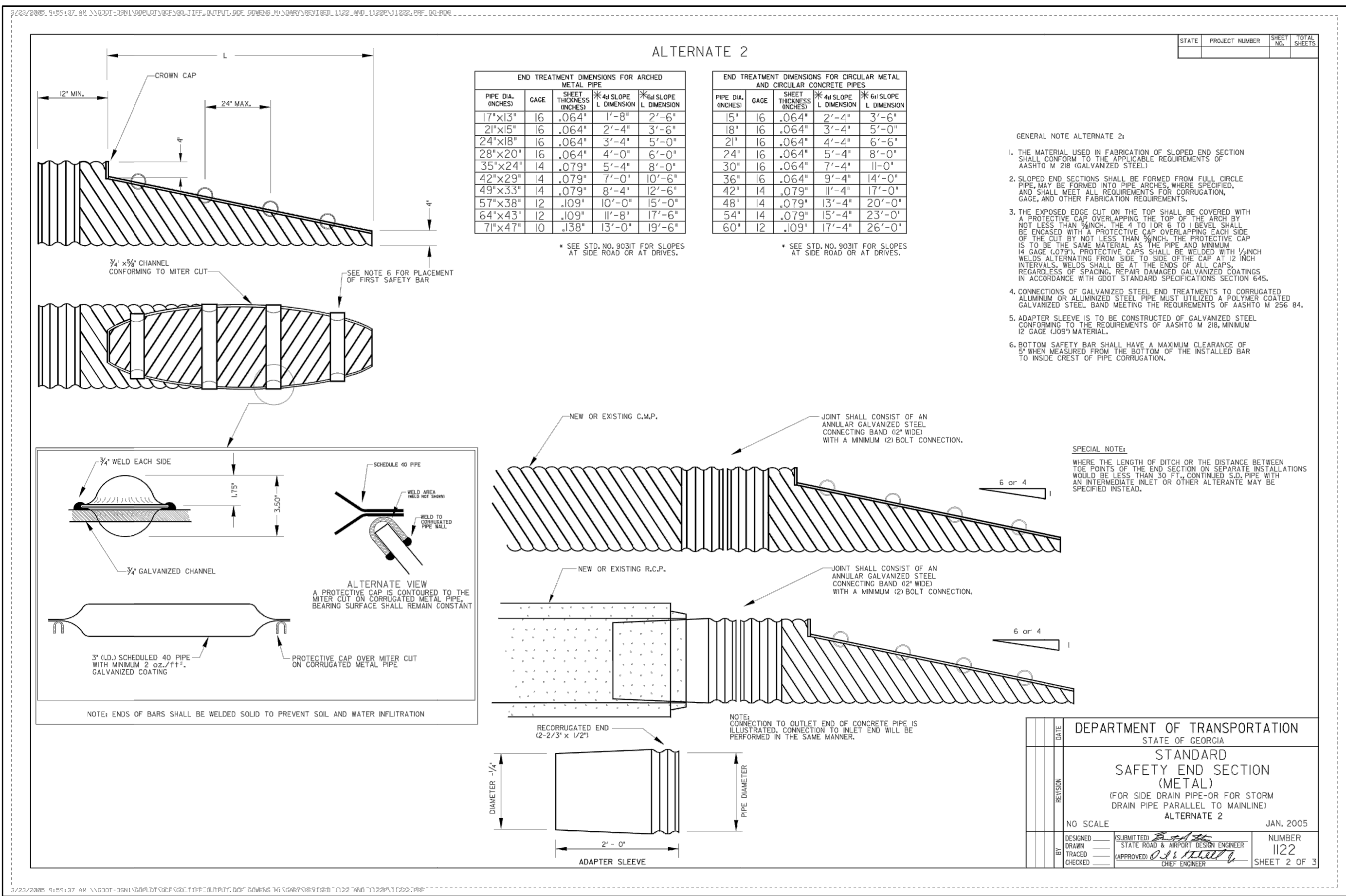
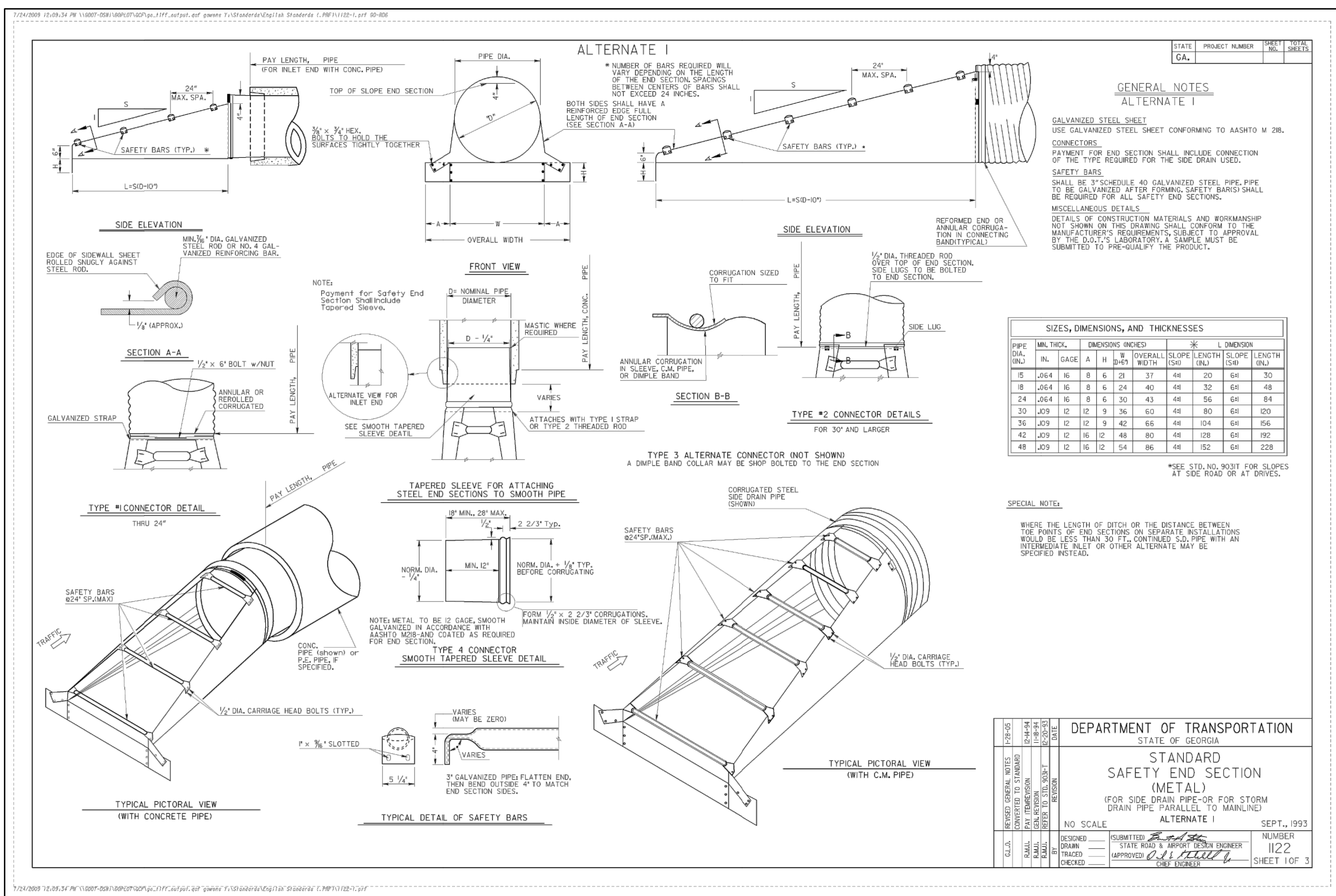
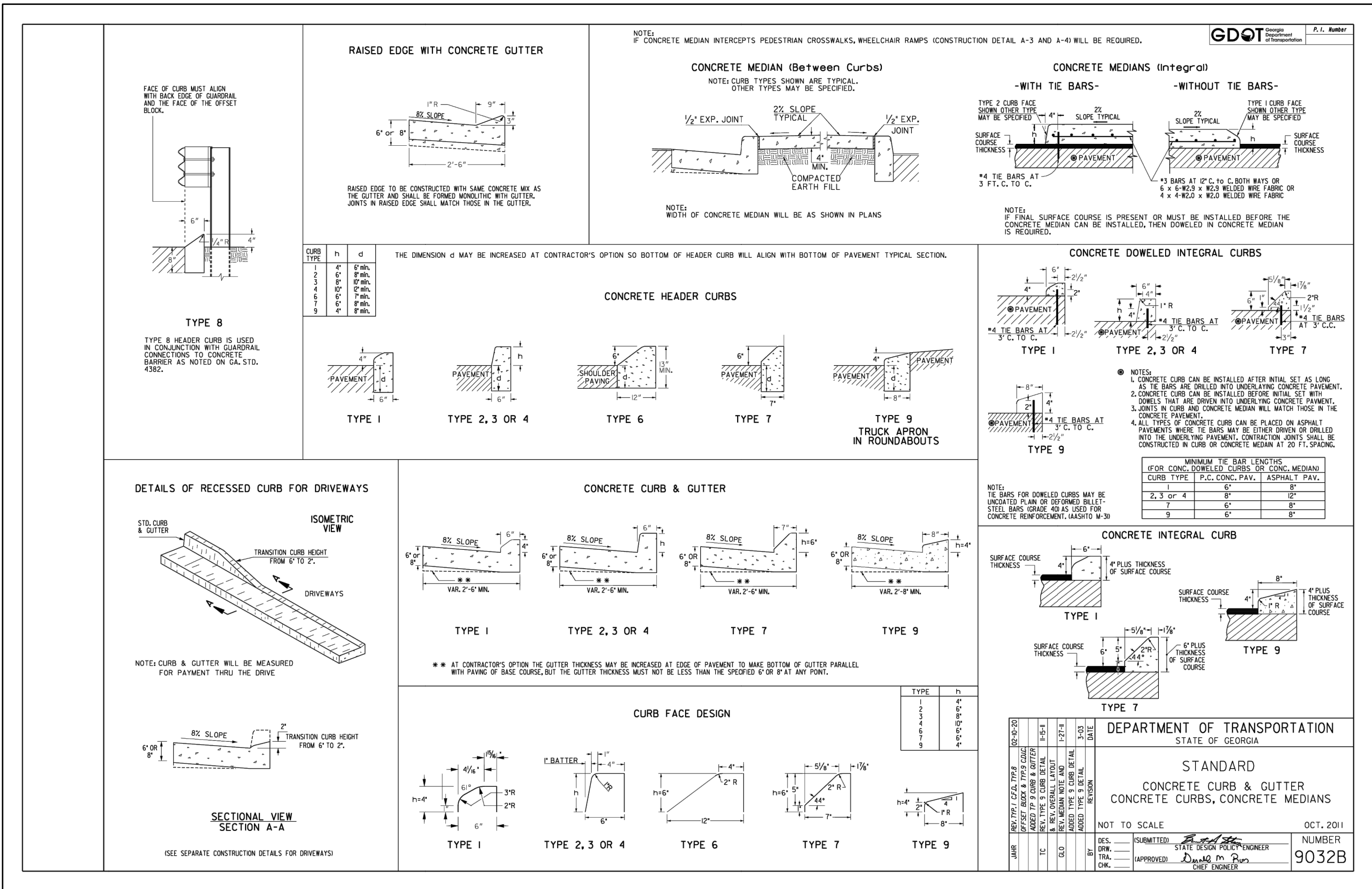
DETAILS
HICKORY FLAT HWY MEDICAL OFFICE
DRIVEWAY DESIGN
4195 HICKORY FLAT HWY
CUMMING, GA, 30040

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115 DISTRICT 6
PARCEL ID # 15-0115-0059
DWN BY CKD BY A&R JOB NO. 24-011

DATE 01-31-2024

SHEET IDENTIFICATION
CT-5001



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FOR CONSTRUCTION

REVISIONS	DESCRIPTION
1	Initial release

DATE	
------	--

PREPARED FOR
B.C. ENGINEERING, INC.

116 N MAIN STREET
CUMMING, GA, 30040
770-205-6181

DETAILS

HICKORY FLAT HWY MEDICAL OFFICE

24 HOUR CONTACT
LUKE BAILEY
770-205-6181

LANDLOT 0115		DISTRICT 6
PARCEL ID # 15-0115-0059		
DWN BY LO	CKD BY ----	A&R JOB # 24-011

SHEET
IDENTIFICATION
CT-5003

