



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.

Project Narrative

NEW ROUNDABOUT DESIGN ON SR 15 AT SUMMIT GROVE ROAD INTERSECTION LOCATED ~ 670 FEET WEST OF US 129.
PROPOSED FULL ACCESS DRIVEWAY ON SR 15 ACROSS FROM SUMMIT GROVE DRIVE, FORMING 4TH LEG TO THE ROUNDABOUT.
INCLUDES RE-GRADING THE SHOULDER AND ROW AREA.

Project Information

Table with 2 columns: Project Information, Value. Includes Net Length of Project Along SR 15 (0.19 Miles), Gross Length of Project (0.23 Miles), Total Area Disturbed (2.52 ac), etc.

GEORGIA DOT NOTES:

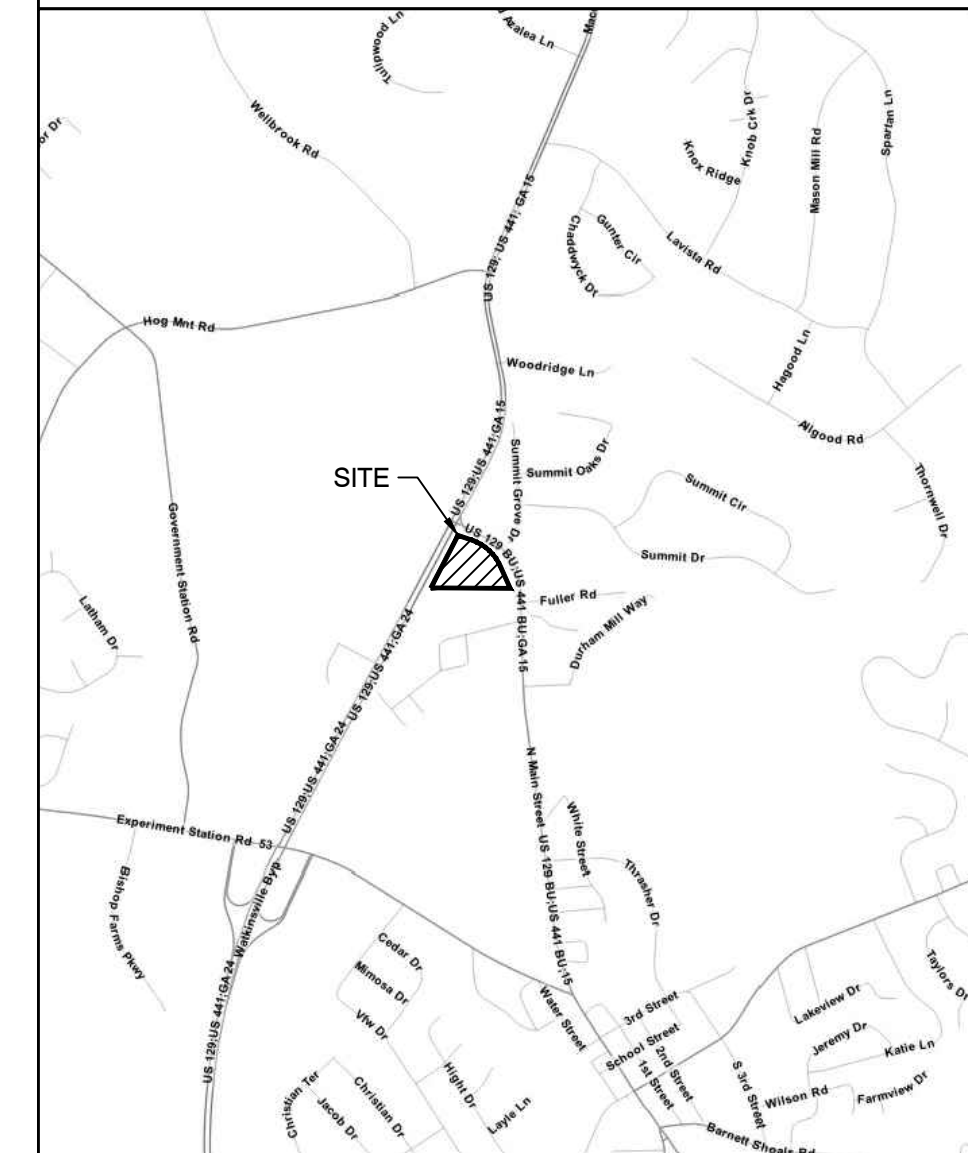
- THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.
THE FOLLOWING WILL NOT BE ALLOWED ON RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER.
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.

Exhibit A

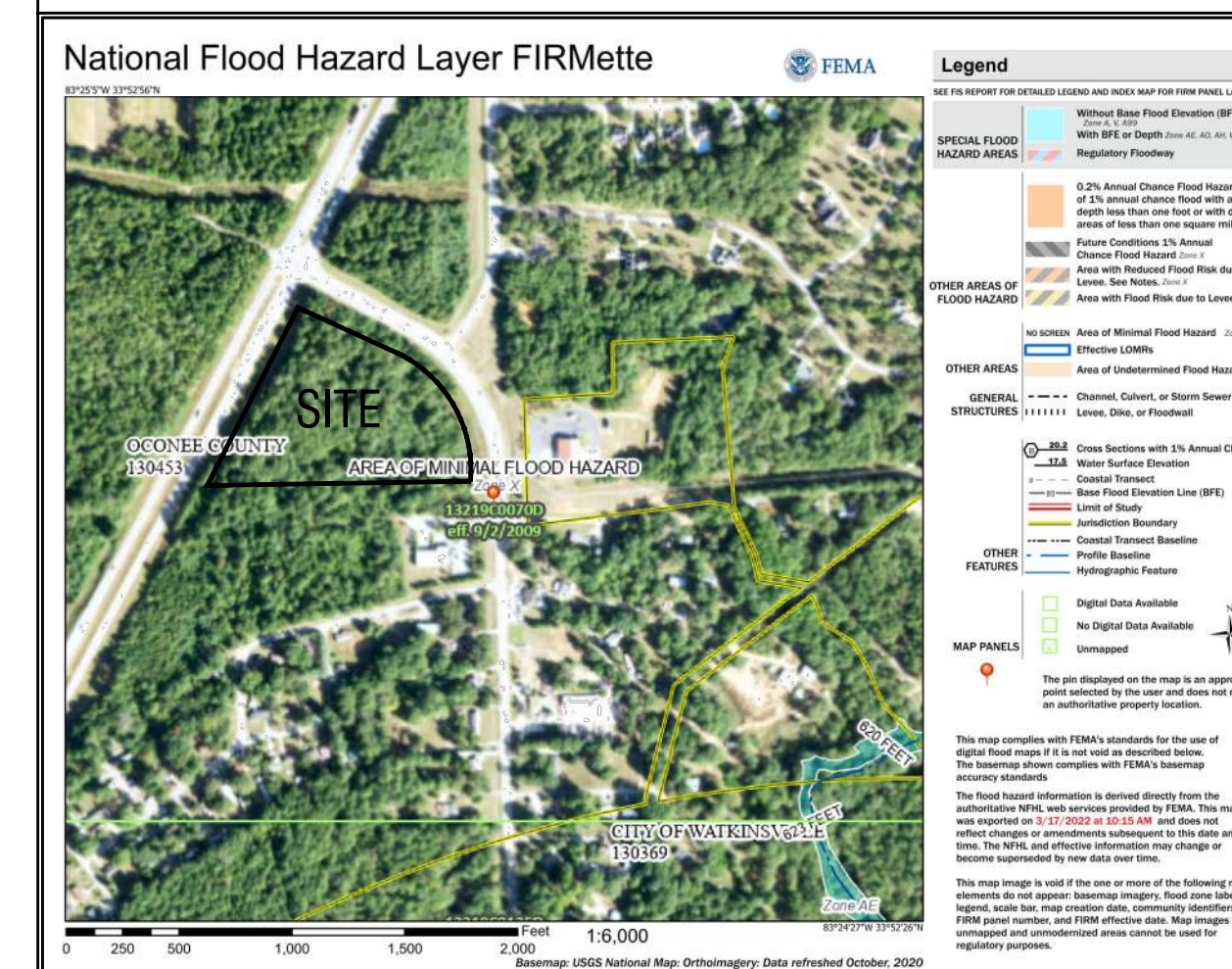
ROUNDABOUT AND DRIVEWAY DESIGN FOR OCONEE CO. ADMINISTRATIVE BUILDING

AT 7575 SR15/US129(BUS)/US441(BUS) TRACT 4, TAX PARCEL #: B 06 029B OCONEE COUNTY

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 13219C0010D, OCONEE COUNTY, GEORGIA DATED SEPTEMBER 2, 2009, FURNISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY THROUGH THE FEDERAL INSURANCE ADMINISTRATION, IT IS MY OPINION THAT THIS PROPERTY SHOWN HEREON IS NOT A FLOOD HAZARD AREA.



A&R ENGINEERING, INC
2160 Kingston Court, Suite O
Marietta, GA 30067
Tel: (770) 690-9255
www.areng.com
arengineering@areng.com
GA COA #PEF004001, EXP 06/30/2022



REVISIONS

Table with 3 columns: No., DATE, DESCRIPTION. Lists revisions for materials and ES&PC, and ES&PC to match site approval.

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR OCONEE COUNTY

WATKINSVILLE, GA 30677 7702949052

COVER SHEET
OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

Project Contacts

Table with 3 columns: Civil Site Engineer, Transportation Engineer, PE Contact. Lists Casey Durden, A&R Engineering, Inc, and Cody Owenby.

SUMMARY OF REVISIONS

Table with 3 columns: DATE, SHEET NUMBER, REVISIONS.

Sheet List Table

Table with 2 columns: Sheet Number, Sheet Title. Lists sheets from CT-0001 to CT-5012.

24 HOUR CONTACT

Table with 3 columns: LL, DIST, PARCEL ID #, DWN BY, FAC, CKD BY, CAO, DATE, A&R PROJECT #.

SHEET IDENTIFICATION CT-0001

STAKING AND STRIPING NOTES:

- ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH GDOT SPECIFICATIONS AND DETAILS FOR PAVEMENT MARKING INSTALLATIONS.
- 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.
- 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.
- NO GRINDING ALLOWED. CORRECT ALL STRIPING BY ASPHALT OVERLAY.
- ALL SIGNS MUST BE INSTALLED/RELOCATED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- NEW PAVEMENT IS REQUIRED ACROSS ALL PROPERTY FRONTAGE, AND INSTALLED AS PER PERMIT.
- 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.
- ALL TRAFFIC CONTROL AND CLEAN-UP CREW OPERATIONS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- HAUL OPERATIONS SHALL NOT BE PERMITTED DURING PEAK TRAFFIC FLOW PERIODS: 7-9 AM, 4-6 PM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ROADWAY CAUSED BY HAULING OPERATIONS.
- 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 RE-GRASS TO DOT SPECIFICATIONS ALL RIGHT-OF-WAY THAT IS DISTURBED.
- 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.
- ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOPSOIL AND GRASSED.
- THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE APPROVED PLAN PLANS 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 THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

GRADING, DRAINAGE, & EROSION CONTROL NOTES:

- ALL CROSS SLOPES WITHIN THE DRIVEWAY AREA SHALL NOT EXCEED A MAXIMUM OF 6% (2% ON CROSSWALKS) PER GDOT STANDARDS.
- 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.
- 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.
- 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.
- 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.
- ANY DEFICIENCIES IDENTIFIED DURING THE INSPECTION OF BMPS SHALL BE CORRECTED WITHIN SEVEN (7) DAYS OF THE INSPECTION.
- ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED BY CONTRACTOR IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.
- 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.
- SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 TEMPORARY SILT FENCE OF THE GEORGIA STANDARD SPECIFICATIONS, 2018 AND BE WIRE OR POLYPROPYLENE REINFORCED.
- 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.
- THE CONTRACTOR SHALL NOT ALLOW SILT TO ACCUMULATE IN SILT FENCE ABOUT ONE-HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE. THE CONTRACTOR SHALL REMOVE SILT AS NEEDED TO PREVENT EXCESS ACCUMULATION.
- TEMPORARY MEASURES SUCH AS SILT FENCING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ONCE THE SITE HAS REACHED PERMANENT STABILIZATION.
- ALL INSTALLATION METHODS & MATERIALS SHALL COMPLY WITH GDOT SPECIFICATIONS AND STANDARDS.

UTILITY NOTES

- FIELD VERIFY LOCATION AND DEPTH OF UNDERGROUND UTILITIES.
- ADJUST ALL WATER METER, GAS VALVE, AND OTHER UTILITY COVERS AS NECESSARY. COORDINATE WITH UTILITY COMPANIES.
- THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)
- 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.
- 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.
- 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.
- ALL WATER METERS, WATER VALVES, FIRE HYDRANTS, AND SANITARY SEWER MANHOLES ARE TO BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED.

TRAFFIC SIGNAL NOTES

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

- TEMPORARY STRIPING SHOULD BE INSTALLED ALL TIMES DURING MILL AND INLAY
- 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: <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:

- CONTRACTOR TO FOLLOW GDOT STDS 9100, 9102 AND 9107 FOR CONSTRUCTION, SIGNING, MARKING, AND TRAFFIC CONTROL.
- REDUCE THE SPEED LIMIT IN THE CONSTRUCTION ZONE PER GDOT STD 9100, 9102, 9107, AND SECTION 150 OF GA STANDARD SPECIFICATIONS
- RAISE GRADED SHOULDER SIMULTANEOUSLY WITH ASPHALT PAVING TO PREVENT DROP OFF
- CONTRACTOR SHALL FOLLOW SECTION 150 OF GA STANDARD SPECIFICATIONS FOR ALL CONSTRUCTION SIGNING, BARRELS AND TRAFFIC CONTROL.

DEMOLITION NOTES:

- 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.
- ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE GOVERNMENTAL REGULATIONS.
- PROVIDE ALL DEMOLITION REQUIRED TO COMPLETELY CLEAR THE SITE, EXCEPT FOR THE EXISTING TREES NOTED TO REMAIN.
- EXISTING SIDEWALK AND CURBS FRONTING ALL ROADS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- ANY SIDEWALK OR CURB DAMAGED IS TO BE REPLACED AT CONTRACTOR'S EXPENSE.
- NOTIFY COUNTY INSPECTOR 24 HOURS PRIOR TO ANY DEMOLITION.

GENERAL LEGEND & ABBREVIATIONS

— CL —	CONSTRUCTION LIMITS	— W —	WATER LINE	SS	SANITARY SEWER	C&G	CURB AND GUTTER	ENC	END NORMAL CROWN
— SS —	SANITARY SEWER	— T —	TELEPHONE (GENERIC)	MH	MANHOLE	FT	FEET	BSE	BEGIN SUPER ELEVATION
— # - W —	WATER LINE, # " SIZE	— P —	POWER (GENERIC)	DI	DROP INLET	MM	MILLIMETER	RC	REVERSE CROWN
— FM —	FORCE MAIN	— UGP —	UNDERGROUND POWER	SWCB	SINGLE WING CATCH BASIN	RPM	RAISED PAVEMENT MARKER	BFSE	BEGIN FULL SUPER ELEVATION
— 25' —	25' BUFFER	— OHP —	OVERHEAD POWER	DWCB	DOUBLE WING CATCH BASIN	RCP	REINFORCED CONCRETE PIPE	EFSE	END FULL SUPER ELEVATION
— 50' —	50' BUFFER	— UGT —	UNDERGROUND COMMUNICATIONS	SES	SAFETY END SECTION	CMP	CORRUGATED METAL PIPE	BNC	BEGIN NORMAL CROWN
— 75' —	75' BUFFER	— OHT —	OVERHEAD COMMUNICATIONS	HW	HEADWALL	PVC	POLYVINYL CHLORIDE	PC	POINT OF CURVATURE
— STREAM —	STREAM	— CATV —	CABLE TV	GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION	HDPE	HIGH DENSITY POLYETHYLENE PIPE	PI	POINT OF INTERSECTION
— X —	FENCE	— COMM —	COMMUNICATIONS (GENERIC)	ES&PC	EROSION, SEDIMENTATION, AND POLLUTION CONTROL	NM	NON-METALLIC CONDUIT	PT	POINT OF TANGENCY
— □ —	GUARDRAIL (EXISTING)	— AF —	FIBER OPTIC - AERIAL	WV	WATER VALVE	PB	PULL BOX	PRC	POINT OF REVERSE CURVATURE
+++++	RAILROAD TRACKS	— [UF] —	FIBEROPTIC - UNDERGROUND	WM	WATER METER	DIP	DUCTILE IRON PIPE	SE	SUPER ELEVATION
— G —	GAS		LIMITED ACCESS R/W	R/W	RIGHT-OF-WAY	H.P.	HIGH POINT	L	LENGTH
— GAS —	GAS	→	FLOW LINE	ROW	RIGHT-OF-WAY	L.P.	LOW POINT	STA	STATION
		— — — — —	GUARDRAIL (FACE)			HGL	HYDRAULIC GRADE LINE	ELA	END LIMITED ACCESS

*NOTE: EXISTING FEATURES ARE SHADED, PROPOSED FEATURES ARE DARK

UTILITY OWNERS

- GEORGIA NATURAL GAS
- OCONEE COUNTY WATER
- BELLSOUTH / AT&T TELECOMMUNICATION
- COMCAST
- GEORGIA POWER ELECTRIC
- OCONEE EMC



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

NOTES

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
--
--

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
CAO	FAC	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-0002

ALLOWABLE STORM DRAIN MATERIALS

(FROM GEORGIA DOT'S DRAINAGE DESIGN FOR HIGHWAYS, REVISION 3.5, 12/18/2020)

ANY SPECIFIC PIPE MATERIAL INDICATED WITHIN THE PLANS OR PROFILE SHALL TAKE PRECEDENCE OVER ANY OPTIONS IN THIS TABLE

PIPE TYPE	INSTALLATION DETAIL	ALLOWABLE SIZE RANGE	INSTALLATION TYPE						
			STORM DRAIN			NON-TRAVEL BEARING (OUTSIDE ROAD BED)	SIDE DRAIN	SLOPE DRAIN	PERFORATED UNDERDRAIN
			TRAVEL BEARING (WITHIN ROADBED)		SLOPE OF PIPE ≤10%				
			SUMMIT GROVE DRIVE	SR15					
			YES	YES	NO	YES	YES	NO	NO
RCP (AASHTO M 170)	GDOT 1030D	12" ≤ DIAM. ≤ 108"	YES	YES	NO	YES	YES	NO	NO
CORRUGATED STEEL ALUMINUM COATED (TYPE 2) (AASHTO M36)	GDOT 1030D	12" ≤ DIAM. ≤ 120"	YES	NO	NO	YES	YES	YES	YES
CORRUGATED STEEL PLAIN ZINC COATED (AASHTO M36)	GDOT 1030D	12" ≤ DIAM. ≤ 120"	NO	NO	NO	YES	YES	YES	YES
POLYMER COATED STEEL (AASHTO M245)	GDOT 1030D	12" ≤ DIAM. ≤ 120"	YES	NO	YES	YES	YES	YES	NO
CORRUGATED ALUMINUM (AASHTO M 196)	GDOT 1030D	12" ≤ DIAM. ≤ 120"	YES	NO	NO	YES	YES	YES	YES
CORRUGATED HDPE (AASHTO M 252)	GDOT 9029B	4" ≤ DIAM. ≤ 10"	NO	NO	NO	NO	NO	NO	YES
CORRUGATED SMOOTH LINED HDPE (AASHTO M 294 TYPE "S")	GDOT 1030P	12" ≤ DIAM. ≤ 48"	YES	YES	YES	YES	YES	YES	YES
CORRUGATED SMOOTH LINED POLYPROPYLENE (AASHTO M 330)	GDOT 1030P	12" ≤ DIAM. ≤ 48"	YES	YES	YES	YES	YES	YES	YES
PVC CORRUGATED SMOOTH INTERIOR (ASTM F 949)	GDOT 1030P	12" ≤ DIAM. ≤ 36"	YES	YES	YES	YES	YES	YES	YES
PVC PROFILE WALL (AASHTO M 304)	GDOT 1030P	12" ≤ DIAM. ≤ 48"	YES	YES	YES	YES	YES	YES	YES

DEFINITIONS:

ROAD BED: THE GRADED PORTION OF A HIGHWAY WITHIN TOP AND SIDE SLOPES, PREPARED AS A FOUNDATION FOR THE PAVEMENT STRUCTURE AND SHOULDER.

SIDE DRAINS: ALL DRIVEWAY PIPES (COMMERCIAL, NON-COMMERCIAL, RESIDENTIAL, UTILITY, FARM, LOGGING, & MINING)

ES&PC LEGEND

STRUCTURAL PRACTICES					
CODE	PRACTICE	DESCRIPTION	CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.	Sr	TEMPORARY STREAM CROSSING	A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATERCOURSE FROM DAMAGE BY CROSSING CONSTRUCTION EQUIPMENT.
Ch	CHANNEL STABILIZATION	IMPROVING, CONSTRUCTING, OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.	St	STORMDRAIN OUTLET PROTECTION	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Co	CONSTRUCTION EXIT	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.	Su	SURFACE ROUGHENING	A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Cr	CONSTRUCTION ROAD STABILIZATION	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.	Tc	TURBIDITY CURTAIN	A FLOATING OR STAKED BARRIER INSTALLED WITHIN THE WATER (IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN).
Dc	STREAM DIVERSION CHANNEL	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT STRUCTURE IS BEING CONSTRUCTED.	Tr	TREE PROTECTION	TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Di	DIVERSION	AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.	Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL	TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. THIS IS TEMPORARY AND INEXPENSIVE.	VEGETATIVE PRACTICES		
Dn2	PERMANENT DOWNDRAIN STRUCTURE	A PAVED CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.	CODE	PRACTICE	DESCRIPTION
Fr	FILTER RING	A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.	Bf	BUFFER ZONE	STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OF BORDERING STREAMS.
Ga	GABION	ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.	Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RE-NOURISHED.
Gr	GRADE STABILIZATION STRUCTURE	PERMANENT STRUCTURES INSTALLED TO PROTECT CHANNELS OR WATERWAYS WHERE OTHERWISE THE SLOPE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.	Ds1	DISTURBED AREA STABILIZATION (MULCHING ONLY)	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Lv	LEVEL SPREADER	A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATER INTO LESS EROSION SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.	Ds2	DISTURBED AREA STABILIZATION (TEMP SEEDING)	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Rd	ROCK FILTER DAM	A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.	Ds3	DISTURBED AREA STABILIZATION (PERM SEEDING)	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Re	RETAINING WALL	A WALL INSTALLED TO STABILIZE CUT AND FILL SLOPES WHERE MAXIMUM PERMISSIBLE SLOPES ARE NOT OBTAINABLE.	Ds4	DISTURBED AREA STABILIZATION (SODDING)	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.
Rt	RETRO-FITTING	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.	Du	DUST CONTROL ON DISTURBED AREAS	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Sd1	SEDIMENT BARRIER	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, HAY/STRAW BALES, BRUSH, LOGS/POLES, GRAVEL, OR A SILT FENCE.	Fl-Co	FLOCCULANTS AND COAGULANTS	SUBSTANCE FORMULATED TO ASSIST IN THE SOLIDS/LIQUID SEPARATION OF SUSPENDED PARTICLES IN SOLUTION.
Sd2	INLET SEDIMENT TRAP	AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.	Sb	STREAM BANK STABILIZATION (USING PERMANENT STABILIZATION)	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.
Sd3	TEMPORARY SEDIMENT BASIN	A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT.	Ss	SLOPE STABILIZATION	A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS.
Sd4	TEMPORARY SEDIMENT TRAP	A SMALL TEMPORARY POND THAT DRAINS A DISTURBED AREA SO THAT SEDIMENT CAN SETTLE OUT. DISTINGUISHING FEATURES FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A PIPE OR RISER.	Tac	TACKIFIERS AND BINDERS	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.
Sk	FLOATING SURFACE SKIMMER	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.			
SpB	SEEP BERM	LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUNOFF TO ENHANCE DISSIPATION AND INFILTRATION, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE EMPLOYMENT OF INTERMEDIATE DIKES.			



REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY
 7635 MACON HWY.
 WATKINSVILLE, GA 30677
 7702949952

PIPE MATERIAL & ES&PC LEGEND
 #####
OCONEE CO. ADMINISTRATIVE BUILDING
 ROUNDABOUT AND DRIVEWAY DESIGN
 7575 SRT15/US128(BUS)/US441(BUS)
 WATKINSVILLE, GA 30677

24 HOUR CONTACT
 - -
 LL DIST PARCEL ID #
 GMD221 B06029B
 DWN BY FAC CKD BY CAO DATE 04/26/2022
 A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-0003

STR NO.	550-1240 STORM DRAIN PIPE, 24", H 1-10	550-1360 STORM DRAIN PIPE, 36", H 1-10	668-1100 CATCH BASIN GP 1	668-1110 CATCH BASIN GP 1, ADDL DEPTH	668-0000 JUNCTION BOX	668-4300 STORM SEWER MANHOLE, TYP 1	603-2181 STONE DUMPED RIP RAP, TYPE 3, 18"	603-2997 FILTER BLANKET	441-0600 CONCRETE HEADWALL	550-3624 SAFETY END SECTION 24 IN, STORM DRAIN, 6:1 SLOPE	550-3436 SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE
	LF	LF	EA	LF		EA	SY	SY	CY	EA	EA
A1	-	-	-	-	-	-	35	35	1.69	-	-
A2	38.00	-	1.00	-	-	1	-	-	-	-	-
A3	39.00	-	1.00	-	-	-	-	-	-	-	-
A4	61.00	-	1.00	-	-	-	-	-	-	-	-
A5	39.00	-	1.00	1.00	-	-	-	-	-	-	-
A6	83.00	-	-	-	-	-	-	-	-	1	-
B1	-	-	-	-	-	-	72	72	2.92	-	-
B2	-	64.00	1.00	1.10	-	-	-	-	-	-	-
B3	-	6	-	-	1	-	-	-	-	-	-
B4	-	-	1	1.5	-	-	-	-	-	-	-
B5	-	43	-	-	-	-	-	-	-	-	1
B1-2	-	-	-	-	-	-	42	42	-	-	-

CONCRETE RIGHT- OF- WAY MARKERS
GA.STD.9003
EACH _____ 4 TOTAL _____

Roadway Surfacing & Concrete Items			
ITEM NO	DESCRIPTION	UNIT	
310-1101	GR AGGR BASE CRS, INCL MATL	TN	1600.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	773.39
402-3121	RECYCLED ASPH CONC 25MM SUPER.PAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	655.60
402-3190	RECYCLED ASPH CONC 19MM SUPER.PAVE, GP 1 OR 2, INCL BITUM MATL & H LIME TN	TN	262.24
402-4510	RECYCLED ASPH CONC 12.5 MM SUP ERP AVE, G P 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	TN	196.68
413-0750	TACK COAT	GAL	476.80
441-0104	CONC SIDEWALK, 4 IN	SY	669.00
441-0300	CONC SPILLWAY, SPCL DES	EA	1.00
441-0748	CONCRETE MEDIAN, 6 IN	SY	256.00
441-0764	CONCRETE MEDIAN, 10 IN	SY	2766.00
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	1522.00
441-5008	CONC CURB, TP 7	LF	239.00
441-5025	CONC CURB, TP 9	LF	310.00
500-9999	CLASS B CONC, BASE FOR PVM T WIDENING	CY	11.00
999-5200	DETECTABLE WARNING SURFACE	SF	64.00

TRAFFIC STRIPING/MARKING/RAISED PAVEMENT MARKERS			
ITEM #	DESCRIPTION	UNIT	QTY
653-0120	THERMOPLASTIC PVM T MARKING, ARROW, TP 2	EA	2.00
653-0296	THERMOPLASTIC PVM T MARKING, WORD, TP 15	EA	4.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	2,159.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1,201.00
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	740.00
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	100.00
653-6004	THERMOPLASTIC TRAF STRIPE, WHITE	SY	444.67
653-6006	THERMOPLASTIC TRAF STRIPE, YELLOW	SY	226.00
654-1001	RAISED PAVEMENT MARKERS TP 1	EA	48.00
654-1003	RAISED PAVEMENT MARKERS TP 3	EA	3.00
652-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	108.00

Temporary Erosion Control			
Item	Description	Unit	QTY
163-0541	CONSTRUCT AND REMOVE ROCK FILTER DAMS	EA	6
163-1930	CONSTRUCT AND REMOVE COMPOST FILTER SOCK, 18 IN	LF	4
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	7
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	5
163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	EA	1
163-0528	CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE	LF	2022
163-0232	TEMPORARY GRASSING	AC	2.18
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	2022
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	10
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	5
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	1
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	7
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	2022
	PERMANENT STABILIZATION & CENTRAL ISLAND LANDSCAPING		
700-9300	SOD	SY	226
700-0212	CRATAEFUS VIRIDIS 'WINTER KING' HAWTHORNE - 3" CALIPER	EA	3
702-04170	ILEX VOMITORIA 'NANA' (DWARF YAUPON HOLLY) - 3 GAL	EA	153
702-9005	SPRING APPLICATION FERTILIZER	LB	33*
702-9025	LANDSCAPE MULCH (PINE STRAW)	SY	261
700-6001	GRASSING - COMPLETE	AC	2.1
700-8000	FERTILIZER MIXED GRADE	TN	1.05*
700-7000	AGRICULTURAL LIME	TN	2.1*
603-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	161
603-2997	FILTER BLANKET	SY	161

*Fertilizer and Lime application rates are assumed. Per GDOT Specification 700 & 702, the contractor shall perform soils to determine fertilizer needs.

STATION	ALIGNMENT	CODE	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP9			HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP9			HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11			SQUARE TUBE POST					
			ITEM # 636-1033			ITEM # 636-0000			ITEM # 636-1036			TP 7, ITEM # 636-2070					
			SIZE	QTY	SF	SIZE	QTY	SF	SIZE	QTY	SF	LENGTH (FT)	QTY	TOTAL LENGTH			
	SR 15 WEST APPROACH	R1-2															
	SR 15 WEST APPROACH	R4-7	24x30	1.00	5.00					36X36X36	2.00	7.78	13.00	2.00	26.00		
	SR 15 WEST APPROACH	W11-2	36X36	2.00	18.00								12.50	1.00	12.50		
	SR 15 WEST APPROACH	W16-7P	24X12	2	4								15.25	4.00	61.00		
	SR 15 WEST APPROACH	R6-4B						60X24	1.00	10.00			11.00	2.00	22.00		
	SR 15 WEST APPROACH	D1-1d#1	18X48	1.00	6.00								10.75	2.00	21.50		
	SR 15 WEST APPROACH	W2-6	36X36	1.00	9.00								16.25	2.00	32.50		
	SR 15 WEST APPROACH	W13-1P	24X24	1.00	4.00								16.25	2.00	32.50		
	SR 15 EAST APPROACH	R1-2								36X36X36	2.00	10.00	13.00	2.00	26.00		
	SR 15 EAST APPROACH	R4-7	24x30	1.00	5.00								12.50	1.00	12.50		
	SR 15 EAST APPROACH	W11-2	36X36	2.00	18.00								15.25	4.00	61.00		
	SR 15 EAST APPROACH	W16-7P	24X12	2	4								15.25	4.00	61.00		
	SR 15 EAST APPROACH	R6-4B						60X24	1.00	10.00			11.00	2.00	22.00		
	SR 15 EAST APPROACH	D1-1d#1	18X48	1.00	6.00								10.75	2.00	21.50		
	SR 15 EAST APPROACH	W2-6	36X36	1.00	9.00								16.25	2.00	32.50		
	SR 15 EAST APPROACH	W13-1P	24X24	1.00	4.00								16.25	2.00	32.50		
	SR 15 EAST APPROACH	R2-1	24X30	1.00	5.00								11.50	1.00	11.50		
	DRIVEWAY	R1-2								36X36X36	2.00	10.00	13.00	2.00	26.00		
	DRIVEWAY	R4-7	24x30	1.00	5.00								12.50	1.00	12.50		
	DRIVEWAY	W11-2	36X36	2.00	18.00								15.25	4.00	61.00		
	DRIVEWAY	W16-7P	24X12	2	4								15.25	4.00	61.00		
	DRIVEWAY	R6-4B						60X24	1.00	10.00			11.00	2.00	22.00		
	DRIVEWAY	W2-6	36X36	1.00	9.00								16.25	2.00	32.50		
	DRIVEWAY	W13-1P	24X24	1.00	4.00								16.25	2.00	32.50		
	SUMMIT GROVE DR	R1-2								36X36X36	2.00	10.00	13.00	2.00	26.00		
	SUMMIT GROVE DR	R4-7	24x30	1.00	5.00								12.50	1.00	12.50		
	SUMMIT GROVE DR	W11-2	36X36	2.00	18.00								15.25	4.00	61.00		
	SUMMIT GROVE DR	W16-7P	24X12	2	4								15.25	4.00	61.00		
	SUMMIT GROVE DR	R6-4B						60X24	1.00	10.00			11.00	2.00	22.00		
	SUMMIT GROVE DR	W2-6	36X36	1.00	9.00								16.25	2.00	32.50		
	SUMMIT GROVE DR	W13-1P	24X24	1.00	4.00								16.25	2.00	32.50		
	SUMMIT GROVE DR	D1-1d#2						18X94	1.00	12.00			11.50	2.00	23.00		



REVISIONS		
No.	DATE	DESCRIPTION
1	2022 MAY 18	ADDED ES&PC/LANDSCAPING
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

SUMMARY OF QUANTITIES

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US128 (BUS)/US441 (BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
--
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY FAC CKD BY CAO DATE 04/28/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-0010

THE PROPERTY SHOWN HEREON LIES WITHIN AN "X" FLOOD PLAIN ACCORDING TO FEMA AND FLOOD INSURANCE RATE MAP #13219C 0070D (COMMUNITY #130453), DATED 9/2/2009.

SSMH
RIM = 731.26'
INV IN = 725.13'
INV OUT = 724.83'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	536.62'	492.59'	475.48'	S 35°43'55" E

TREE TABLE	
SYMBOL	TYPE
✱	CEDAR
⊙	CHERRY
⊙	HACKBERRY
⊙	HICKORY
⊙	OAK
⊙	PERSIMMON
⊙	PINE
⊙	SWEET GUM
⊙	TREE STATED

SURVEYOR'S NOTES:

- THIS MAP OF SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE ABSTRACT.
- THE PROPERTY SHOWN HEREON MAY BE SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS, RIGHTS-OF-WAY, STATE WATER BUFFERS AND OTHER ENCUMBRANCES. SAID EASEMENTS, RESTRICTIONS, RESERVATIONS, RIGHTS-OF-WAY, STATE WATER BUFFERS AND OTHER ENCUMBRANCES MAY NOT BE SHOWN HEREON.
- IT IS OUTSIDE MY AREA OF EXPERTISE TO DELINEATE WETLANDS OR DETERMINE IF THE CORRECT SITE CONDITIONS EXIST FOR WETLAND AREAS. THEREFORE WETLANDS, IF EXISTING ON SUBJECT PROPERTY, ARE NOT SHOWN.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON THE FIELD LOCATES PROVIDED BY "RYKEN UTILITY DETECTION, LLC." CARTER ENGINEERING CONSULTANTS, INC. AND CRAIG M. RICHT DO NOT GUARANTEE THE ACCURACY OF THE WORK PROVIDED BY "RYKEN UTILITY DETECTION, LLC." "RYKEN UTILITY DETECTION, LLC." HAS SINCE CHANGED ITS NAME TO "GROUNDHAWK, LLC."
- THIS MAP OF SURVEY IS NOT VALID UNLESS IT BEARS THE REGISTRANT'S ORIGINAL SIGNATURE, IN BLUE INK, PLACED ACROSS THE REGISTRANT'S SEAL.
- BEARINGS ARE BASED ON GRID NORTH (GA WEST ZONE) WHICH WAS ESTABLISHED USING RTK GPS ON THE egps NETWORK.
- ELEVATIONS ARE BASED NAVD 1988 AND WERE ESTABLISHED USING RTK GPS ON THE egps NETWORK.
- CONTOURS SHOWN ARE AT A 1 FT. CONTOUR INTERVAL.
- ZONING AND SETBACK INFORMATION, IF SHOWN, SHOULD BE VERIFIED BY THE APPROPRIATE PLANNING/ZONING AGENCY PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.
- THE FIELD WORK WAS COMPLETED ON AUGUST 9, 2021 AND WAS PERFORMED USING A CARLSON BRX7 BASE AND ROVER. THE RELATIVE POSITIONAL ACCURACY DOES NOT EXCEED 0.07 FEET. DISTANCES SHOWN ARE GROUND DISTANCES.
- THIS MAP OF SURVEY HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 491,284 FEET.
- ROAD STRIPING IS NOT FIELD LOCATED AND IS TAKEN FROM AERIAL DRAWINGS.

Carter Engineering Consultants, Inc.
3651 Mars Hill Road
Suite 2000
Watkinsville, GA 30677
P: 770-725-1200
www.carterengineering.net

TOPOGRAPHIC SURVEY FOR:

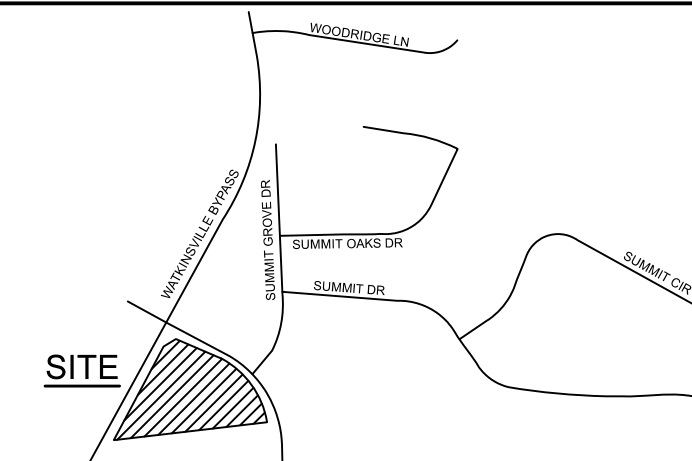
OCONEE COUNTY
GOVERNMENT

VETERANS MEMORIAL PARKWAY
WATKINSVILLE, GEORGIA 30677
OCONEE COUNTY
G.M.D. 221

BEING THAT TRACT OF LAND DESCRIBED AS TRACT 4 AND RECORDED IN P.B. 30, P. 245, OCONEE COUNTY, GEORGIA PUBLIC RECORDS.

TOTAL AREA: 7.64 ACRES
TAX PARCEL #: B 06 029B
EXISTING ZONING: AR-1

REPRODUCTIONS, MODIFICATIONS OR ASSIGNMENTS OF THIS DOCUMENT WITHOUT THE WRITTEN APPROVAL OF CARTER ENGINEERING CONSULTANTS, INC. ARE PROHIBITED AND MAY INVALIDATE THE SEAL AND ANY LIABILITY THAT CARTER ENGINEERING CONSULTANTS, INC. MAY HAVE IN THIS DOCUMENT.



LOCATION MAP - NTS

LEGEND OF SURVEY ABBREVIATIONS/SYMBOLS

A	ARC LENGTH	⬇	BACKFLOW PREVENTER
A/C	AIR CONDITIONER	⊙	BENCHMARK/CONTROL
BSL	BUILDING SETBACK LINE	⊙	BOLLARD
CL	CENTERLINE	⊙	BURIED CABLE POST
CM	CONCRETE MONUMENT	⊙	CABLE TV PEDESTAL
CMP	CORRUGATED METAL PIPE	⊙	CATCH BASIN (SINGLE WING)
CONC	CONCRETE	⊙	CATCH BASIN (DOUBLE WING)
COV	COVERED	⊙	CATCH LINK FENCE
DB	DEED BOOK	⊙	CROSSWALK SIGNAL
DE	DRAINAGE EASEMENT	⊙	ELECTRIC MANHOLE
DWCB	DOUBLE WING CATCH BASIN	⊙	ELECTRIC METER
ENCR	ENCROACHMENT	⊙	ELECTRIC PEDESTAL
EP	EDGE OF PAVEMENT	⊙	FIRE HYDRANT
ESE	EASEMENT	⊙	GAS BOX
ET	ELECTRIC TRANSFORMER	⊙	GAS LINE (BURIED)
FES	FLAILED END SECTION	⊙	GAS METER
FD	FOUND	⊙	GAS POST
FF	FINISHED FLOOR	⊙	GAS VALVE
INV	INVERT	⊙	GAS VENT STACK
IP	IRON PIPE	⊙	GATE/WATER VALVE
IPC	IRON PIPE WITH CAP	⊙	GREASE TRAP MH
IR	IRON REBAR	⊙	GUY/ANCHOR
IRC	IRON REBAR WITH CAP	⊙	IRRIGATION CONTROL VALVE
M	MEASURED	⊙	METAL LIGHT POLE
MH	MANHOLE	⊙	OVERHEAD UTILITIES
NF	NOW OR FORMERLY	⊙	PHONE LINE (BURIED)
NTS	NOT TO SCALE	⊙	POWER (BURIED)
O/S	OFFSET	⊙	SANITARY SEWER CLEAN-OUT
P	PLAT	⊙	SS LINE (BURIED)
PB	PLAT BOOK	⊙	SANITARY SEWER MANHOLE
PDI	PEDESTAL DROP INLET	⊙	SIGN
POB	POINT OF BEGINNING	⊙	STORM SEWER MANHOLE
POC	POINT OF COMMENCEMENT	⊙	STORM SEWER LINE (BURIED)
R	RADIAL/RADIUS	⊙	STREET/PARKING LIGHT
RCP	REINFORCED CONCRETE PIPE	⊙	STUB (UNKNOWN)
RW	RIGHT-OF-WAY	⊙	TELEPHONE PEDESTAL
SWB	STATE WATERS BUFFER	⊙	TRAFFIC SIGNAL BOX
SWCB	SINGLE WING CATCH BASIN	⊙	TRAFFIC SIGNAL/SIGN POLE
SS	SANITARY SEWER	⊙	WATER LINE (BURIED)
SSMH	SANITARY SEWER MANHOLE	⊙	WATER METER
TYP	TYPICAL	⊙	WELL
UE	UTILITY EASEMENT	⊙	WOOD FENCE
		⊙	WOOD LIGHT POLE
		⊙	WOOD POLE

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats or other instruments which created the parcel or parcels are stated herein. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.

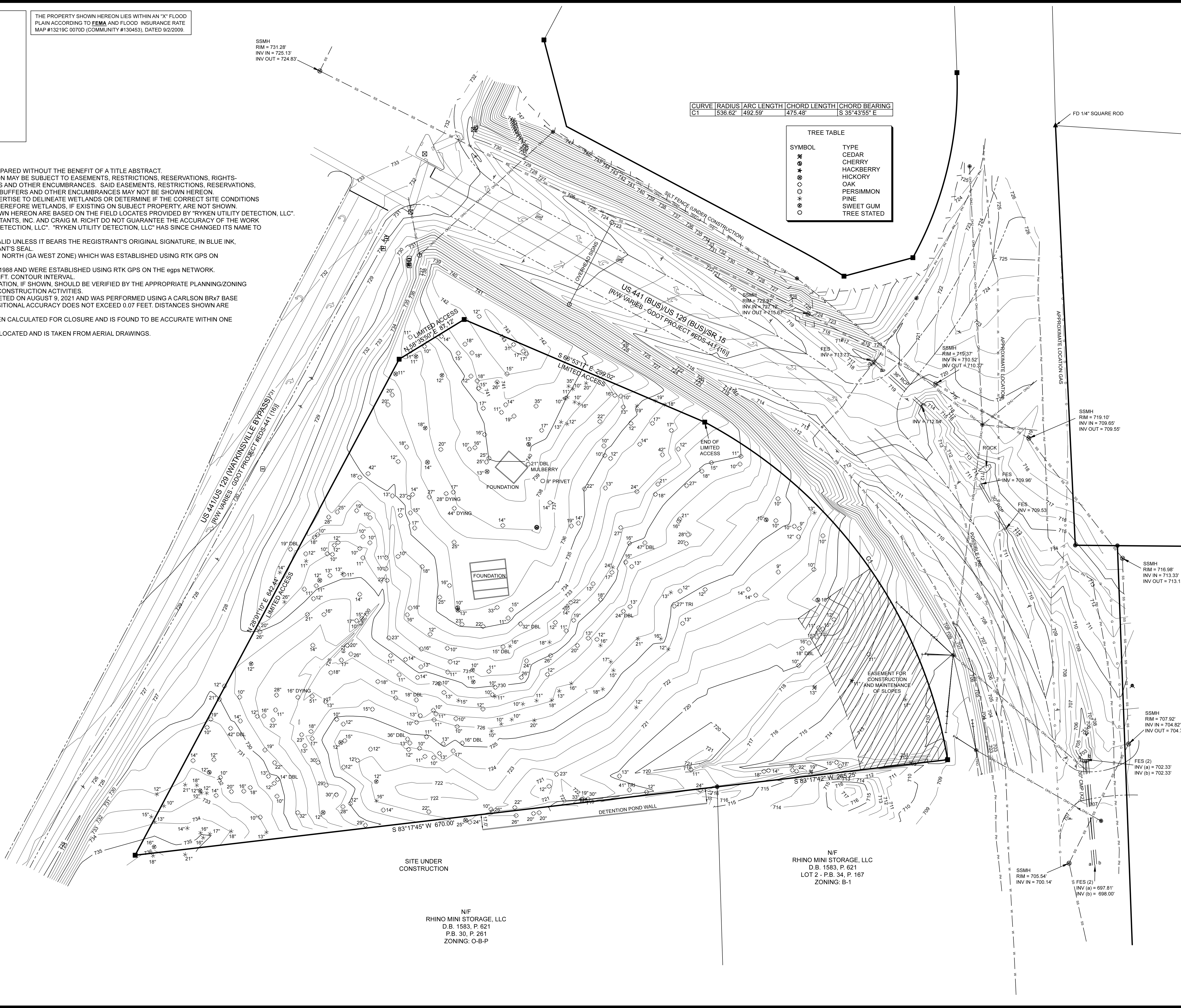
REGISTERED LAND SURVEYOR: CRAIG M. RICHT
GEORGIA L.S. #3136

	DATE PREPARED: 8-10-2021	
	PROJECT #: 210030CG	
	DATE: 11-17-2021	

REVISIONS:	DATE:
ADDITIONAL TOPO AND UTILITY LOCATES	10-18-2021
ADDED ADDITIONAL R/W	11-17-2021

GRAPHIC SCALE
0' 25' 50' 100' 150'
SCALE: 1" = 50'

SHEET #
1
1



N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
LOT 2 - P.B. 34, P. 167
ZONING: B-1

N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
LOT 2 - P.B. 34, P. 167
ZONING: B-1

SSMH
RIM = 705.54'
INV IN = 700.14'

SSMH
RIM = 707.92'
INV IN = 704.92'
INV OUT = 704.72'

SSMH
RIM = 716.98'
INV IN = 713.33'
INV OUT = 713.13'

SSMH
RIM = 719.10'
INV IN = 709.65'
INV OUT = 709.55'

SSMH
RIM = 729.97'
INV IN = 722.74'
INV OUT = 721.67'

SSMH
RIM = 729.97'
INV IN = 722.74'
INV OUT = 721.67'



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

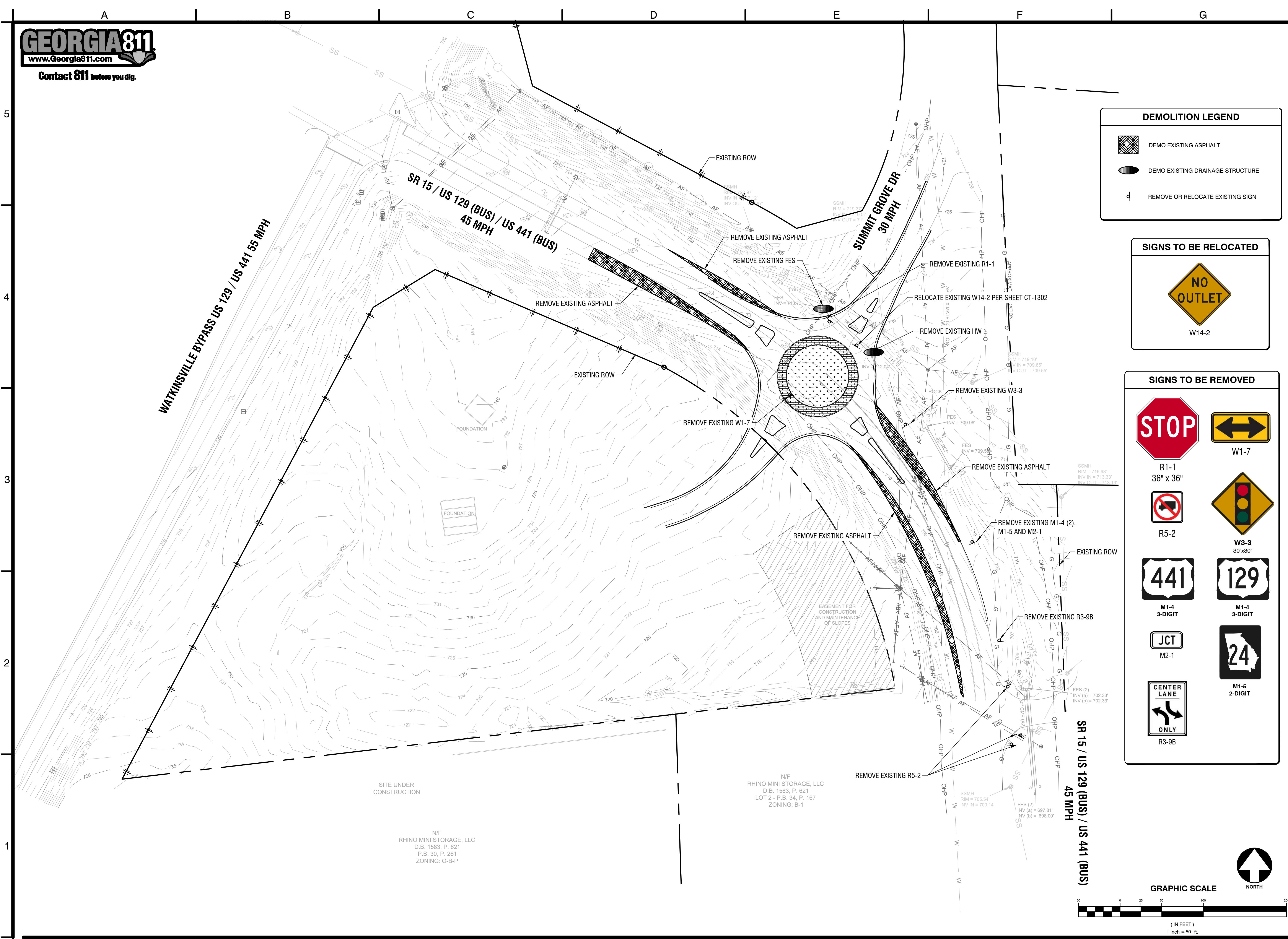
PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

DEMOLITION PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
- -
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY CAO CKD BY DATE
FAC 04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-1000



DEMOLITION LEGEND

- DEMO EXISTING ASPHALT
- DEMO EXISTING DRAINAGE STRUCTURE
- REMOVE OR RELOCATE EXISTING SIGN

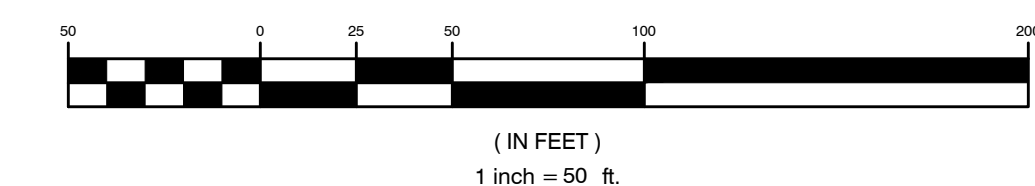
SIGNS TO BE RELOCATED

W14-2

SIGNS TO BE REMOVED

- R1-1 36" x 36"
- R5-2
- M1-4 3-DIGIT
- JCT M2-1
- R3-9B
- W1-7
- W3-3 30'x30'
- M1-4 3-DIGIT
- M1-5 2-DIGIT

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH



N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
P.B. 30, P. 261
ZONING: O-B-P

N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
LOT 2 - P.B. 34, P. 167
ZONING: B-1

EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF SLOPES

WATKINSVILLE BYPASS US 129 / US 441 55 MPH

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

SUMMIT GROVE DR
30 MPH



Contact 811 before you dig.

TOTAL SITE FRONTAGE ON SR15: 791.0'
TOTAL SITE FRONTAGE ON SR 24: 642.4'

EXISTING TRAFFIC SIGNAL

WATKINSVILLE BYPASS / SR 24 / US 129 / US 441 55 MPH

642.4'

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

670.0'

PROPOSED OFFICE BUILDING
±44,000 SF
159 SPACES
3.6 SP/1000 SF

401.4'

791.0'

SUMMIT GROVE DR
30 MPH

103.7'

308.8'

OFFICE COMPLEX DRWY

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

463.5'

EXISTING FIREHOUSE DRWY

FUTURE BUILDING

SITE UNDER CONSTRUCTION

N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
P.B. 30, P. 261
ZONING: O-B-P

N/F
RHINO MINI STORAGE, LLC
D.B. 1583, P. 621
LOT 2 - P.B. 34, P. 167
ZONING: B-1

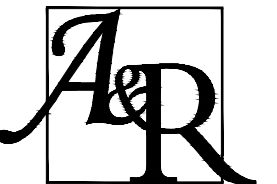
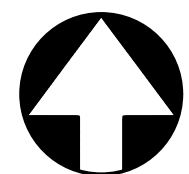
PROPOSED MICROPOOL
DETENTION
100 YEAR = 713
DATE: 7/14/20
BOTTOM: 710

EASEMENT FOR
CONSTRUCTION
AND MAINTENANCE
OF SLOPES

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



A&R ENGINEERING, INC
2160 Kingston Court, Suite O
Marietta, GA 30067
Tel: (770) 690-9255
www.areneg.com
areneg@areneg.com
GA COA #PEF004001, EXP 06/30/2022



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949652

OVERALL PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

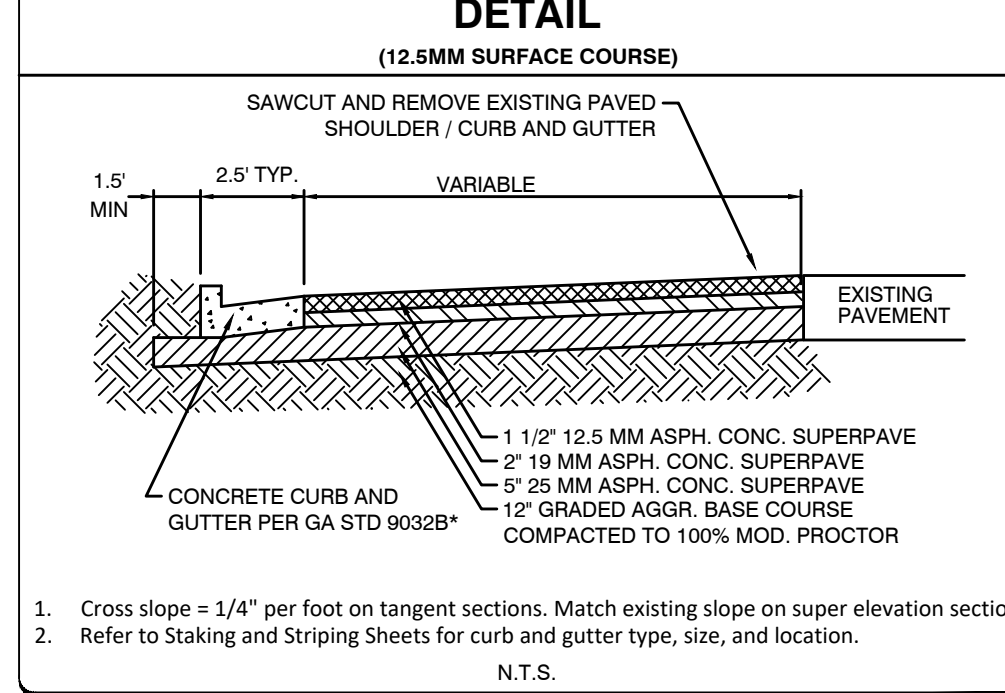
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY CKD BY DATE
FAC CAO 3/25/2022

A&R PROJECT #
21-229

SHEET IDENTIFICATION

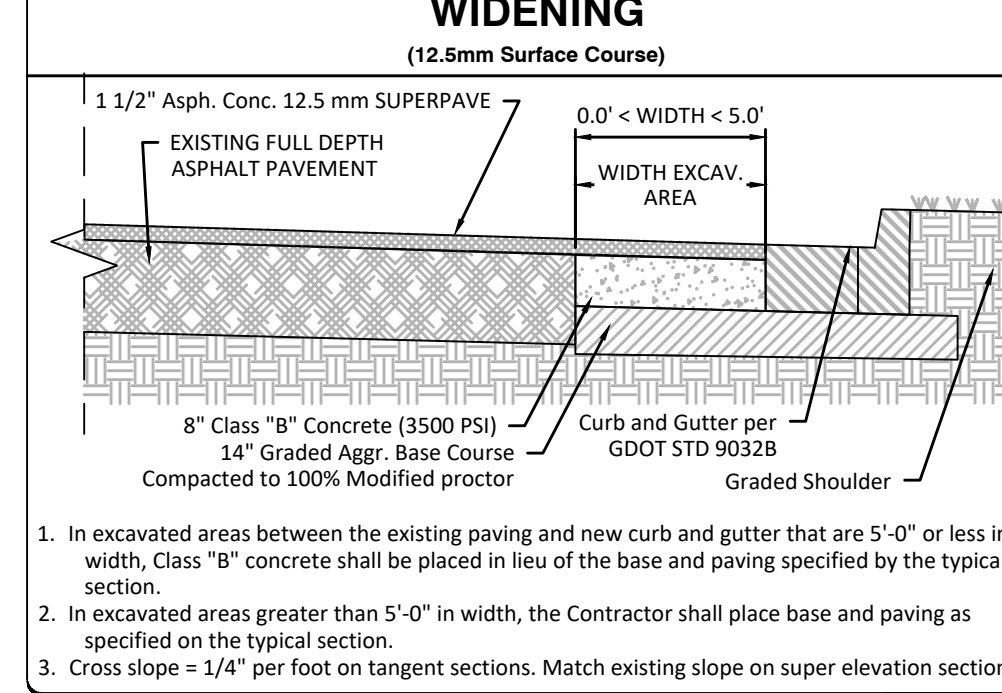
CT-1100

GDOT FULL DEPTH PAVEMENT WIDENING DETAIL
(12.5mm SURFACE COURSE)



1. Cross slope = 1/4" per foot on tangent sections. Match existing slope on super elevation sections.
 2. Refer to Staking and Striping Sheets for curb and gutter type, size, and location.
- N.T.S.

GDOT CLASS "B" CONCRETE BASE PAVEMENT WIDENING
(12.5mm SURFACE COURSE)



1. In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section.
2. In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.
3. Cross slope = 1/4" per foot on tangent sections. Match existing slope on super elevation sections.

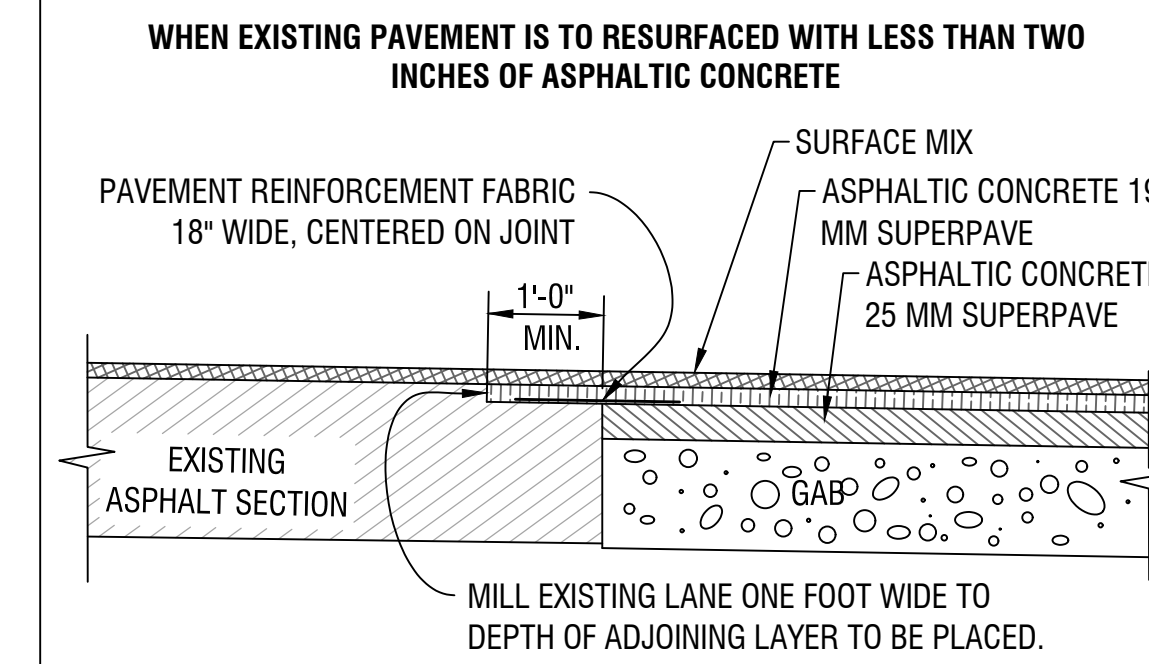
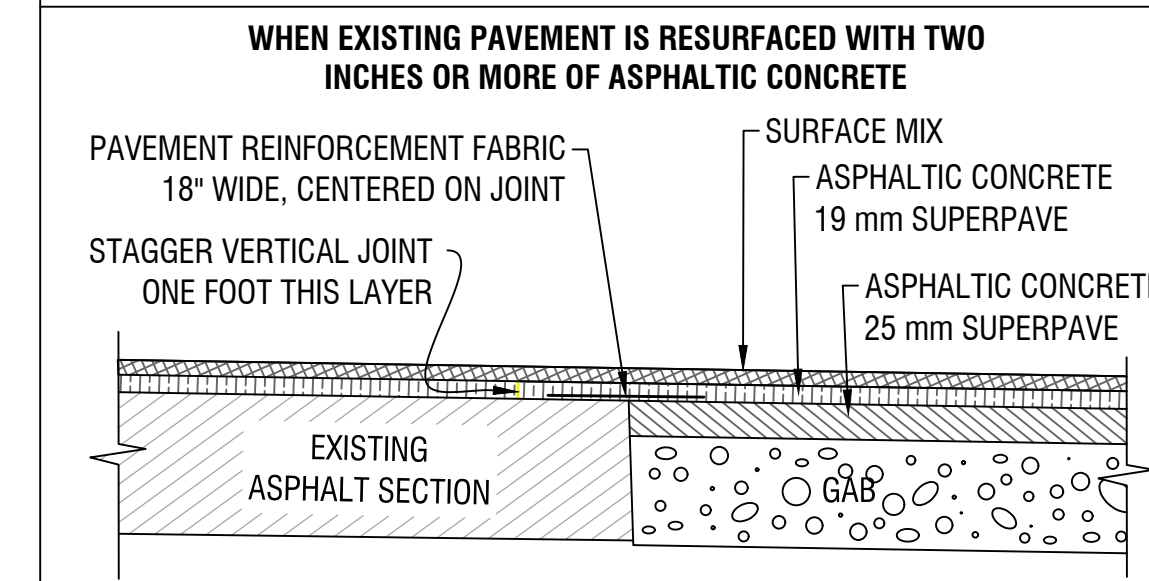
PAVING LEGEND

- NEW FULL DEPTH GDOT SPEC ASPHALT PAVEMENT OR CLASS B WIDENING (SAWCUT EXIST. PAVEMENT AS NECESSARY)
- LEVELING W/ 1 1/2" 12.5 MM SURFACE COURSE PER GDOT INSPECTOR'S INSTRUCTIONS
- SIDEWALK
4" CONCRETE, 3500 PSI MIN PER GDOT STD A3
- CONCRETE TRUCK APRON PER GDOT STD RA-2
- LANDSCAPED CENTRAL ISLAND PER GDOT STD RA-1
- 6" MOUNTABLE SPLITTER ISLAND

- NOTE:
1. ANY EXISTING STRIPING ERADICATED BY MILL & INLAY SHALL BE REPLACED WITH NEW STRIPING.
 2. ALL RPMS REMOVED BY MILL & INLAY SHALL BE REPLACED
 3. RPMS SHALL BE INSTALLED ALONG ALL NEW TURN LANES.

TRANSITION LOCATION FROM LEVELING TO FULL DEPTH SUBJECT TO CHANGE BASED ON STAGING AND CONSTRUCTION COSTS

GDOT PAVEMENT JOINT DETAIL



REVISIONS

No.	DATE	DESCRIPTION
1	2022 MAY 18	CLARIFIED CENTRAL ISLAND SOD WIDTH
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022

A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-1200

WATKINSVILLE BYPASS US 129 / US 441 55 MPH

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

SUMMIT GROVE DR
30 MPH

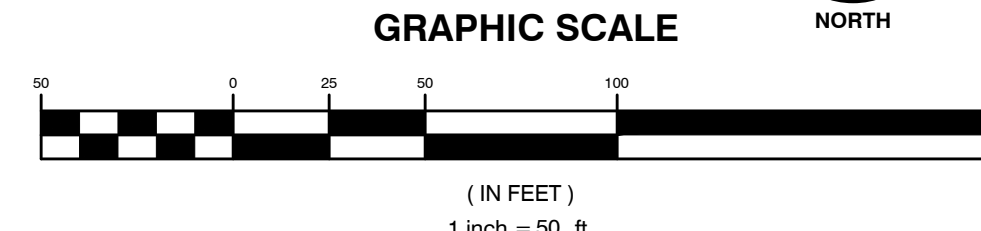
SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

OFFICE COMPLEX DRWY

PROPOSED OFFICE BUILDING
±44,000 SF
159 SPACES
3.6 SP/1000 SF

FUTURE BUILDING

PROPOSED MICROPOOL DETENTION
100 YEAR = 713
DAM: 71.5
BOTTOM: 710





REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

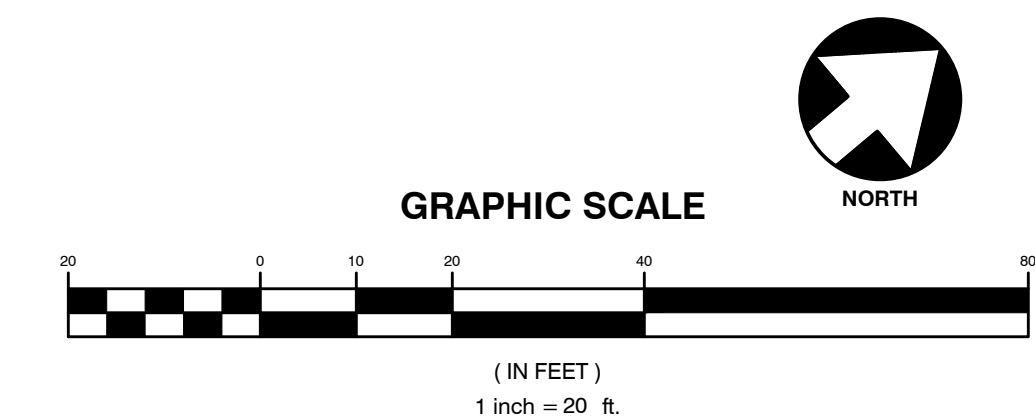
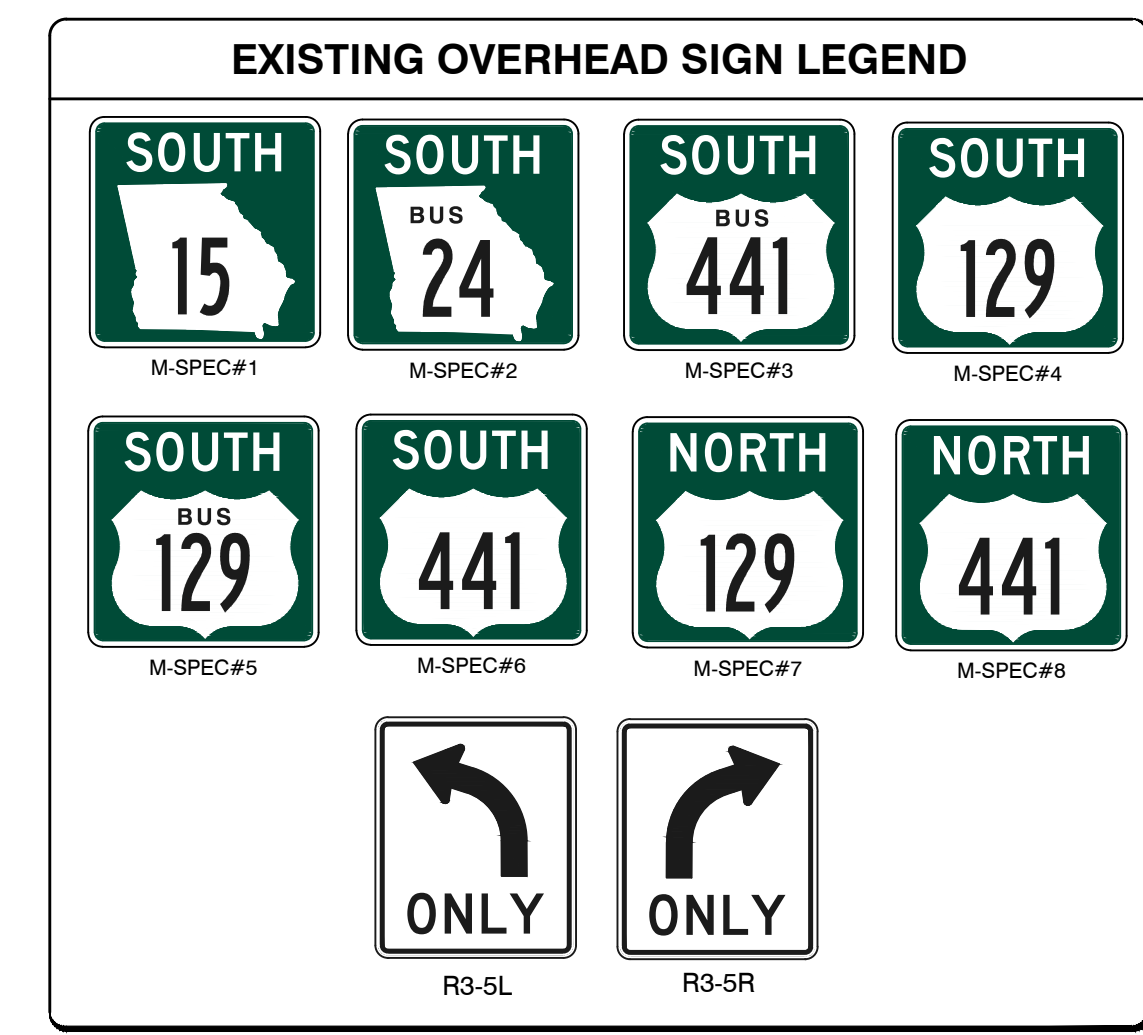
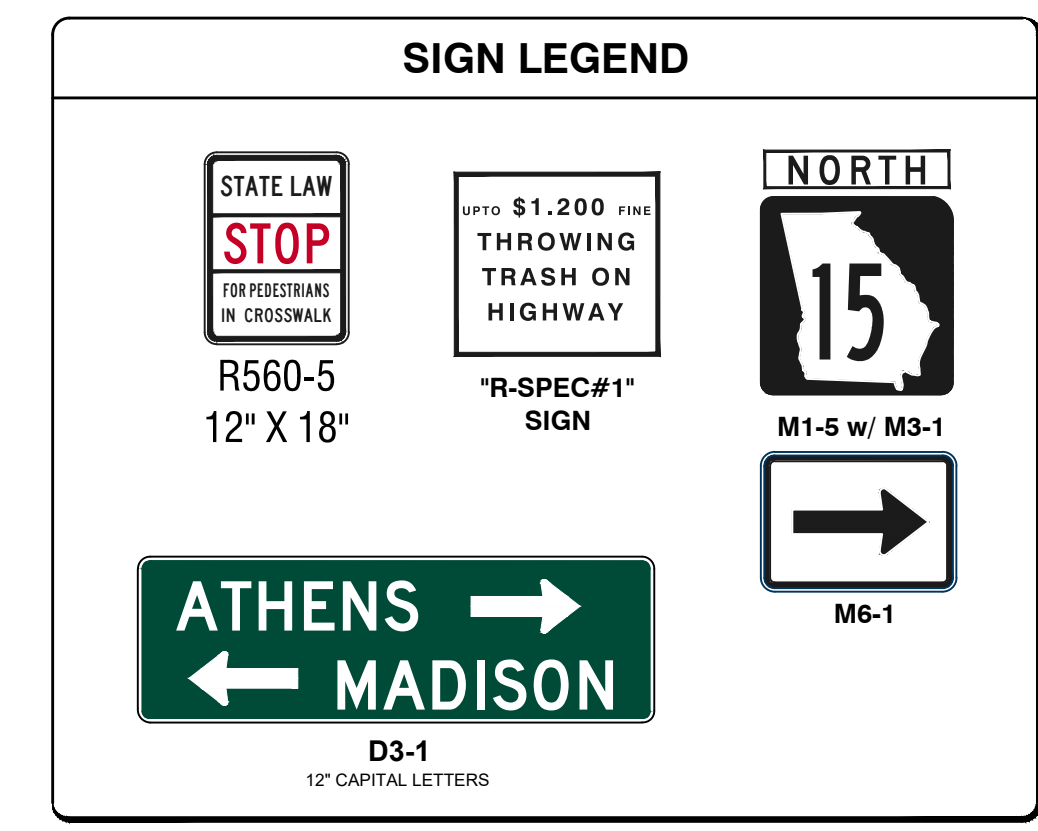
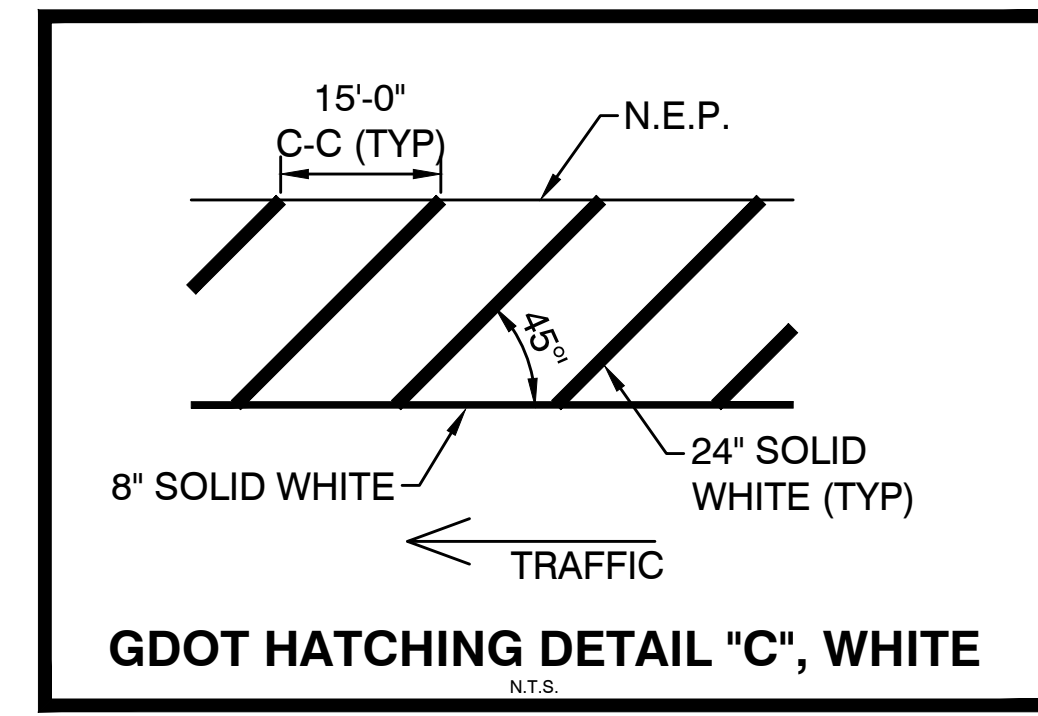
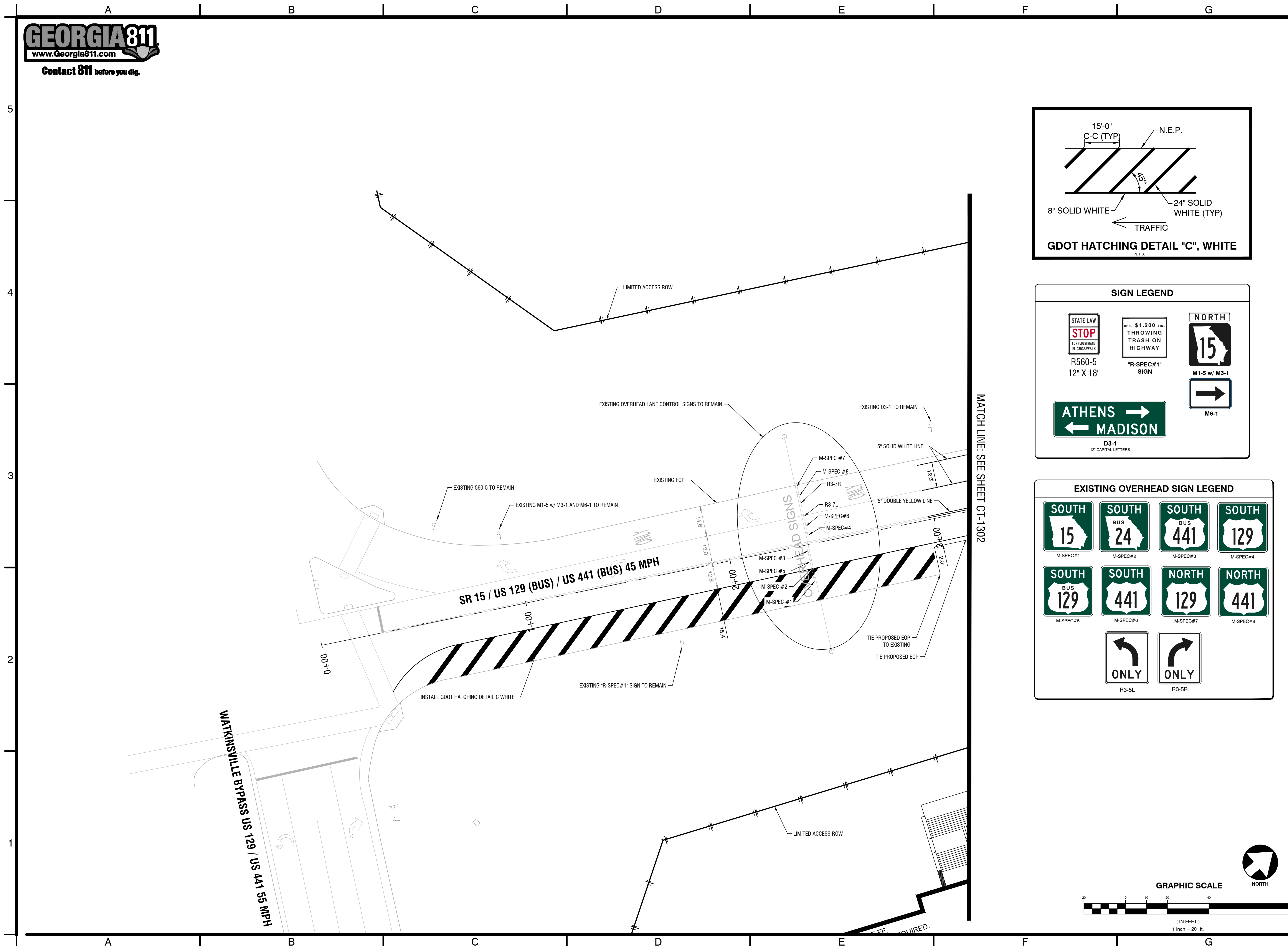
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

STAKING AND STRIPING PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR115/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

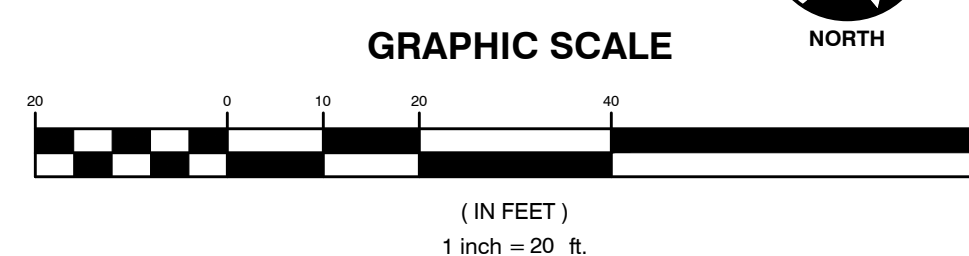
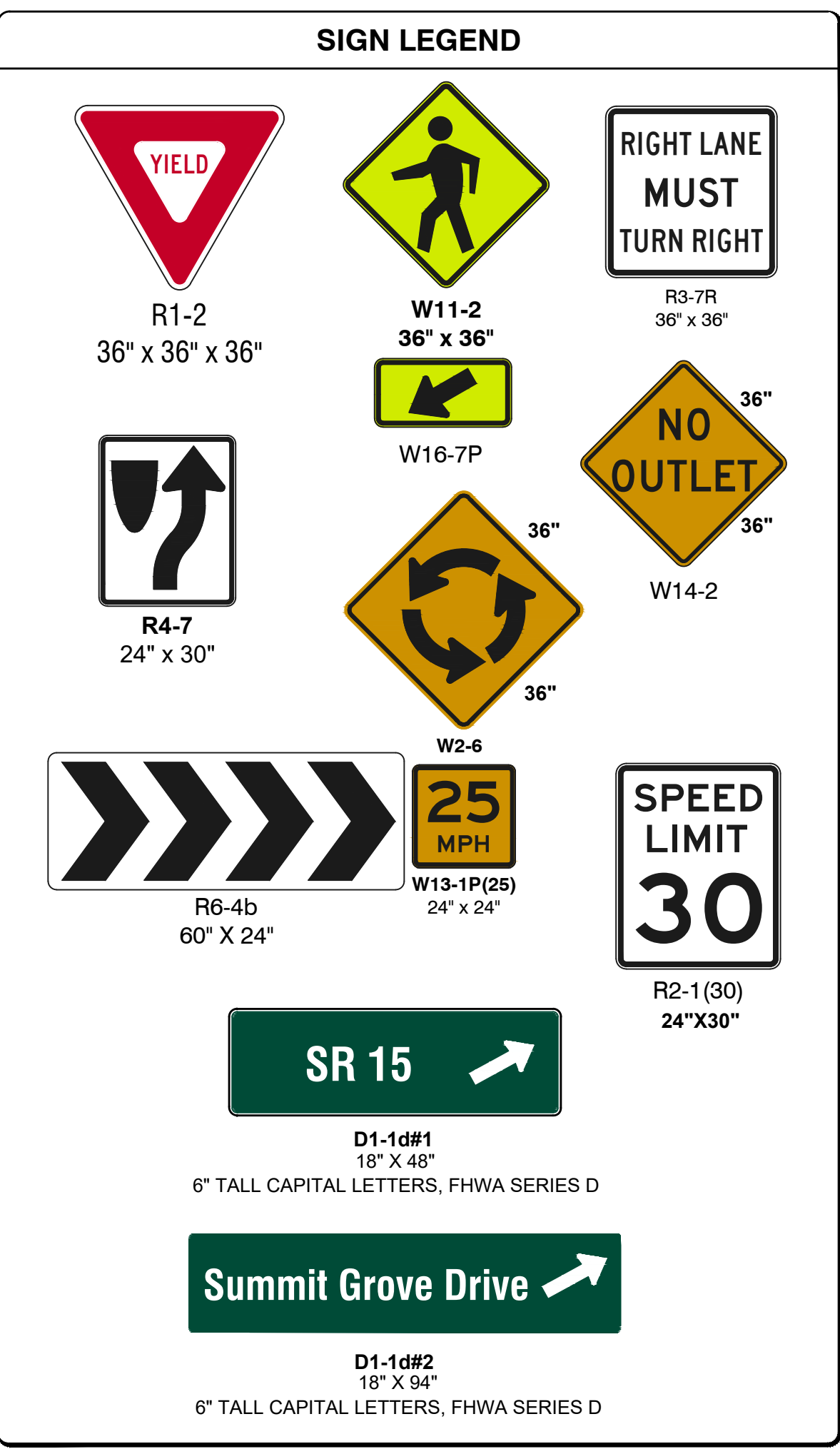
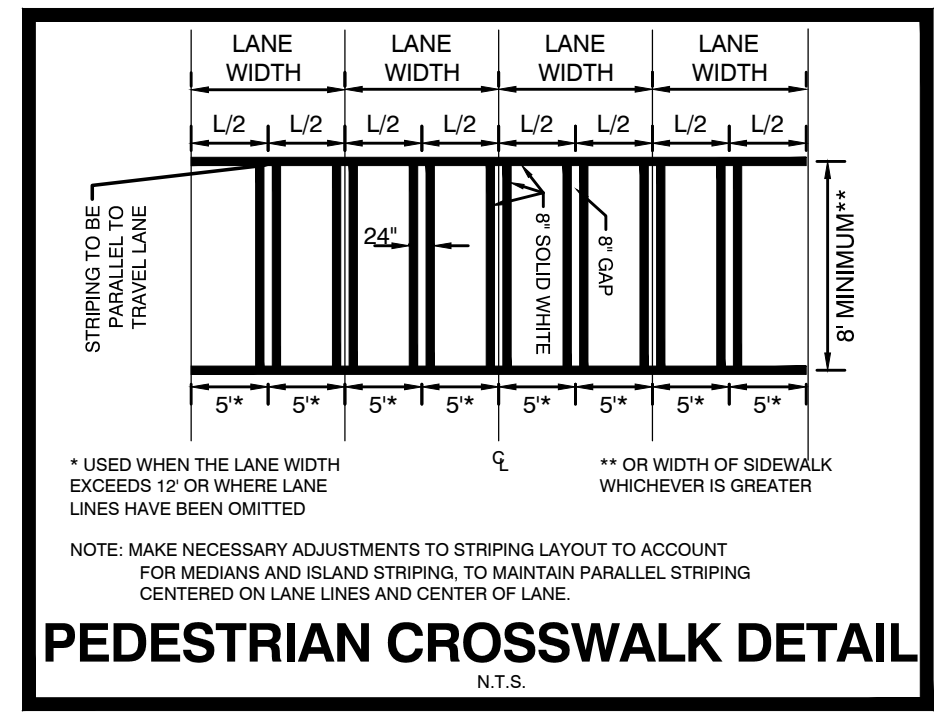
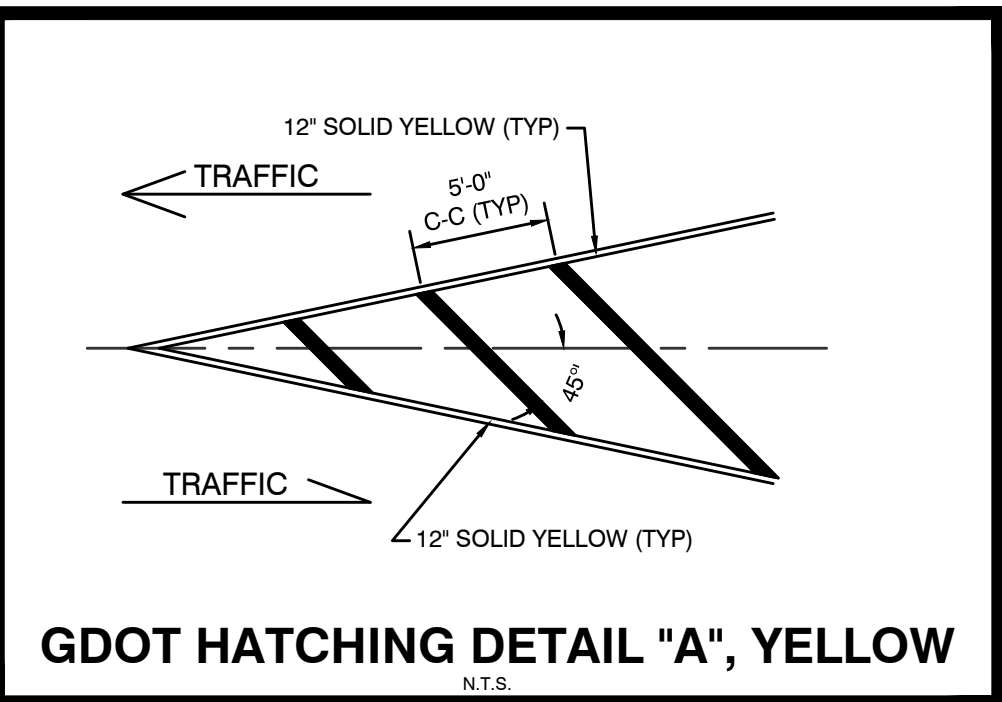
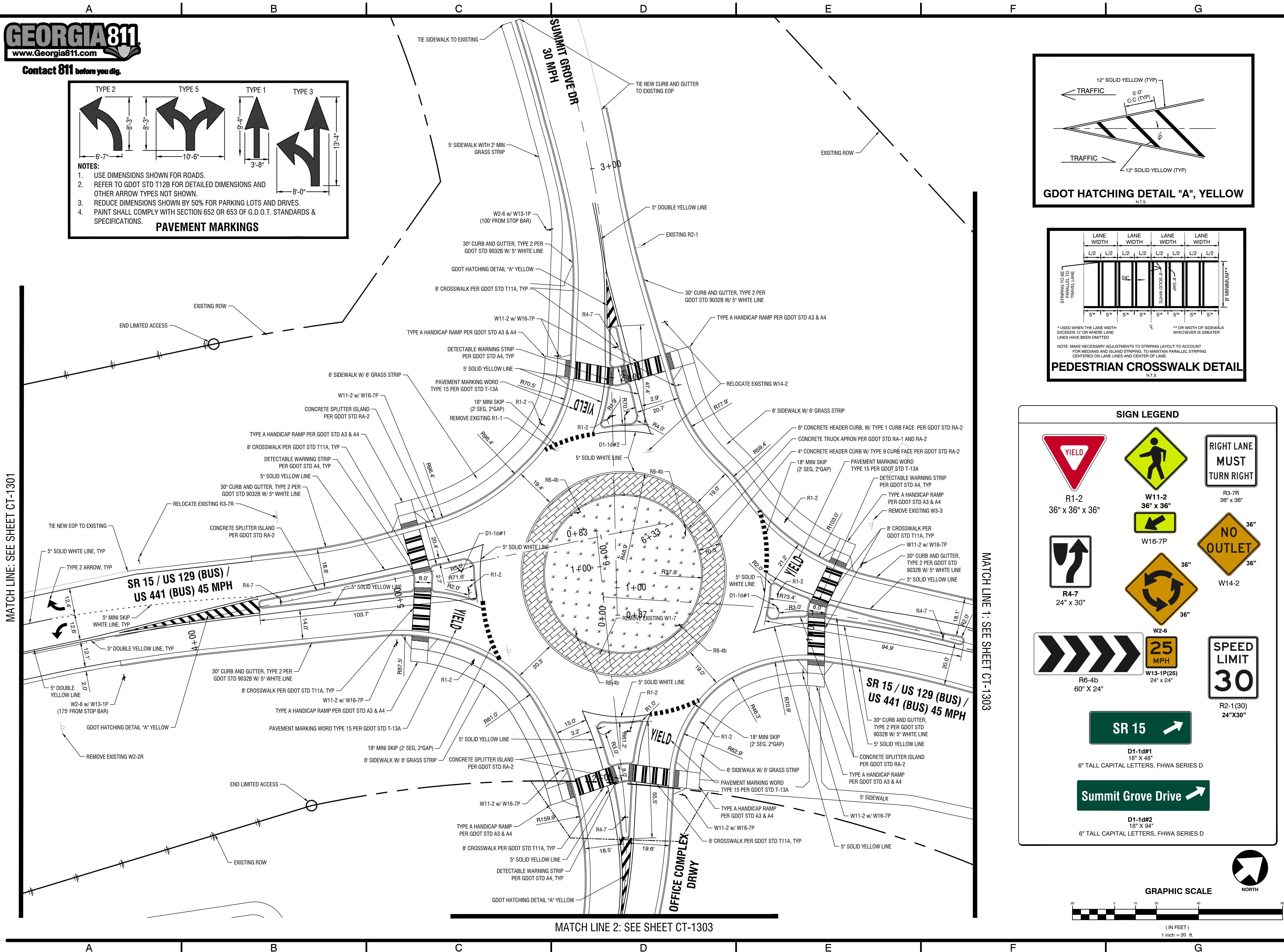
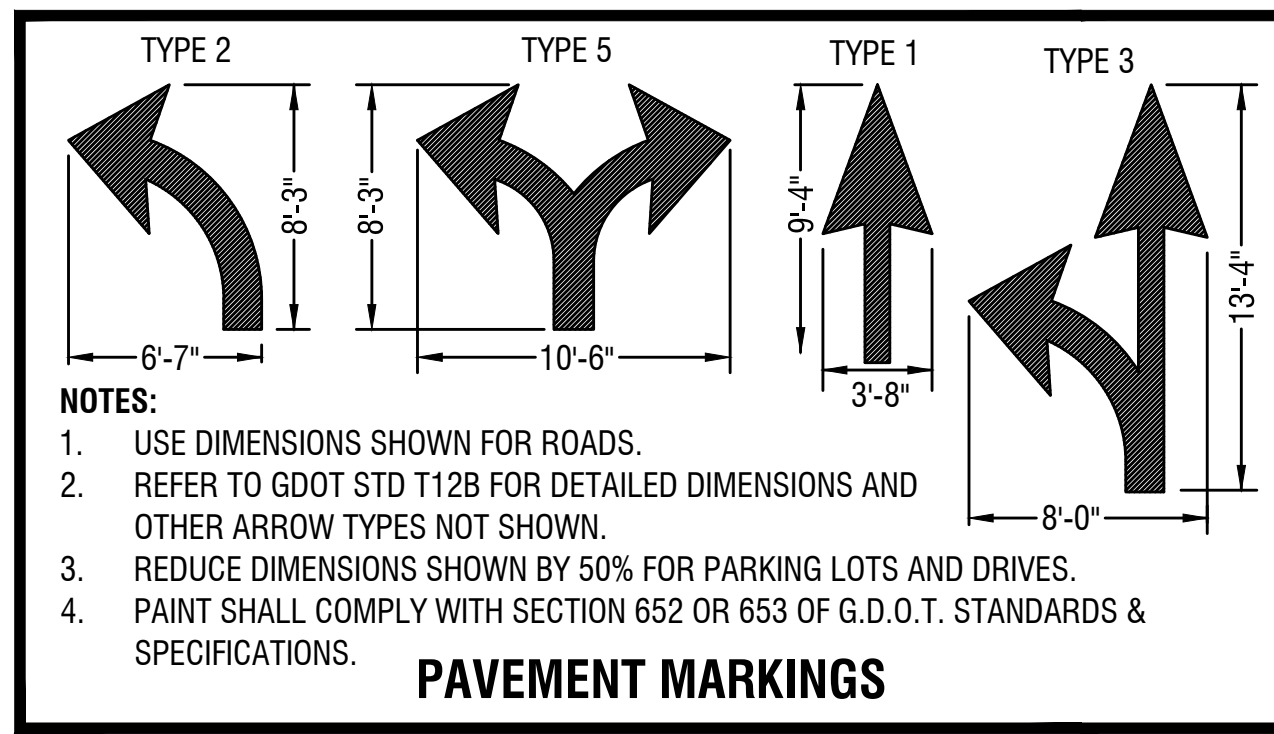
24 HOUR CONTACT			
LL	DIST	PARCEL ID #	
----	GMD221	B06029B	
DWN BY	CKD BY	DATE	
FAC	CAO	04/21/2022	
A&R PROJECT #			
21-229			

SHEET IDENTIFICATION
CT-1301



MATCH LINE: SEE SHEET CT-1302

Contact 811 before you dig.



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949652

STAKING AND STRIPING PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-1302



REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

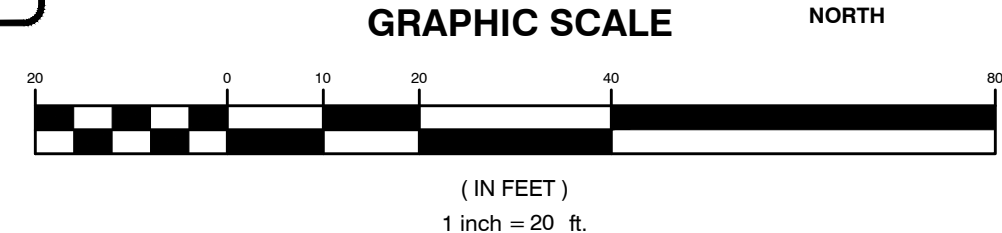
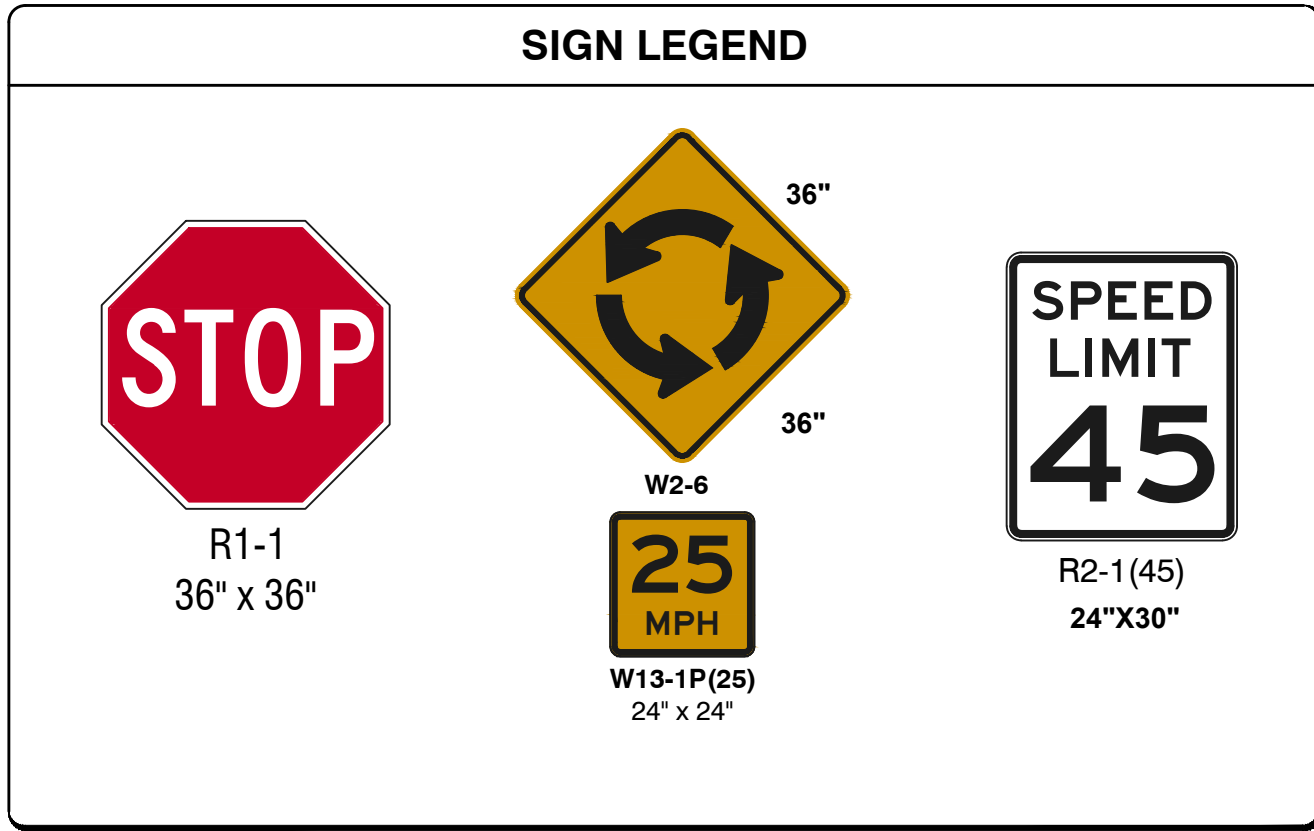
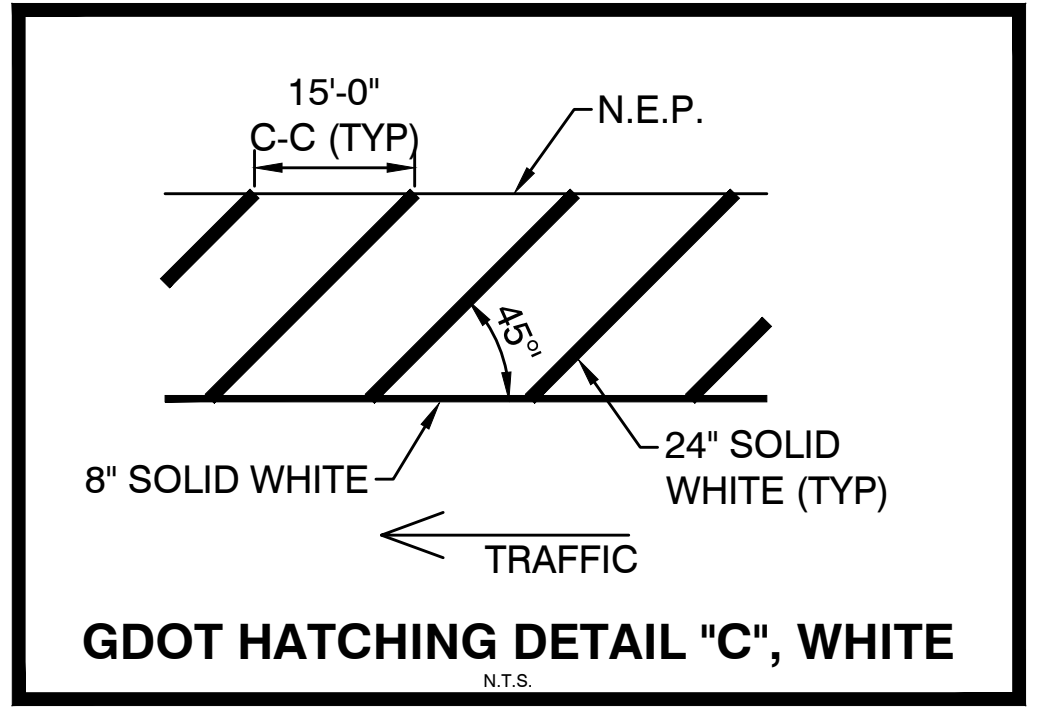
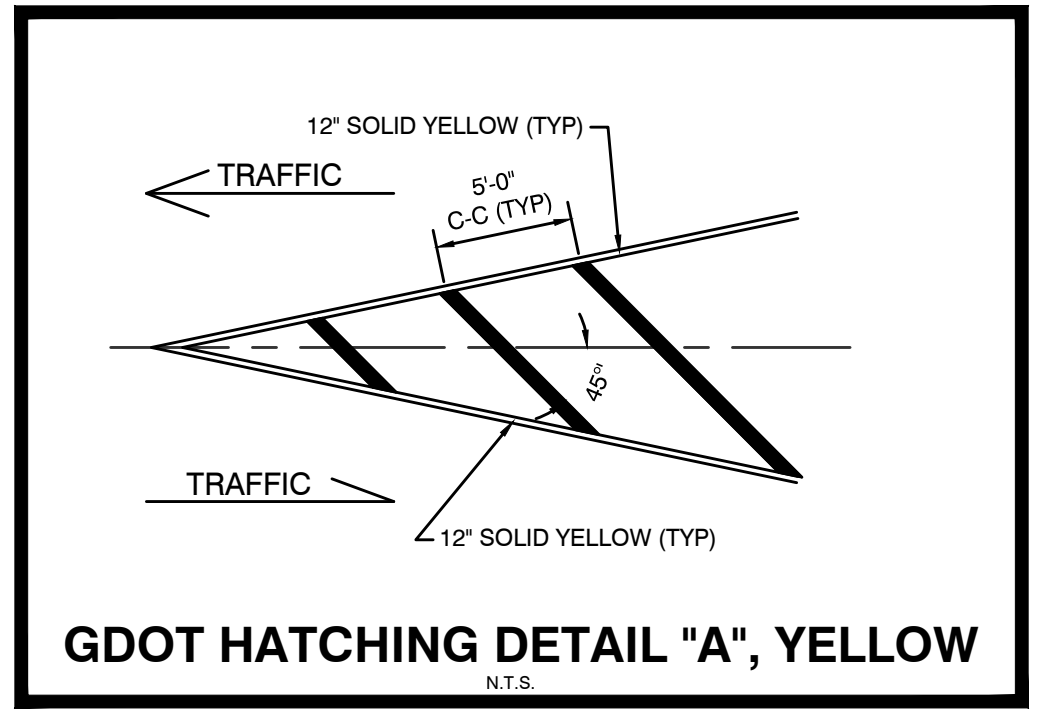
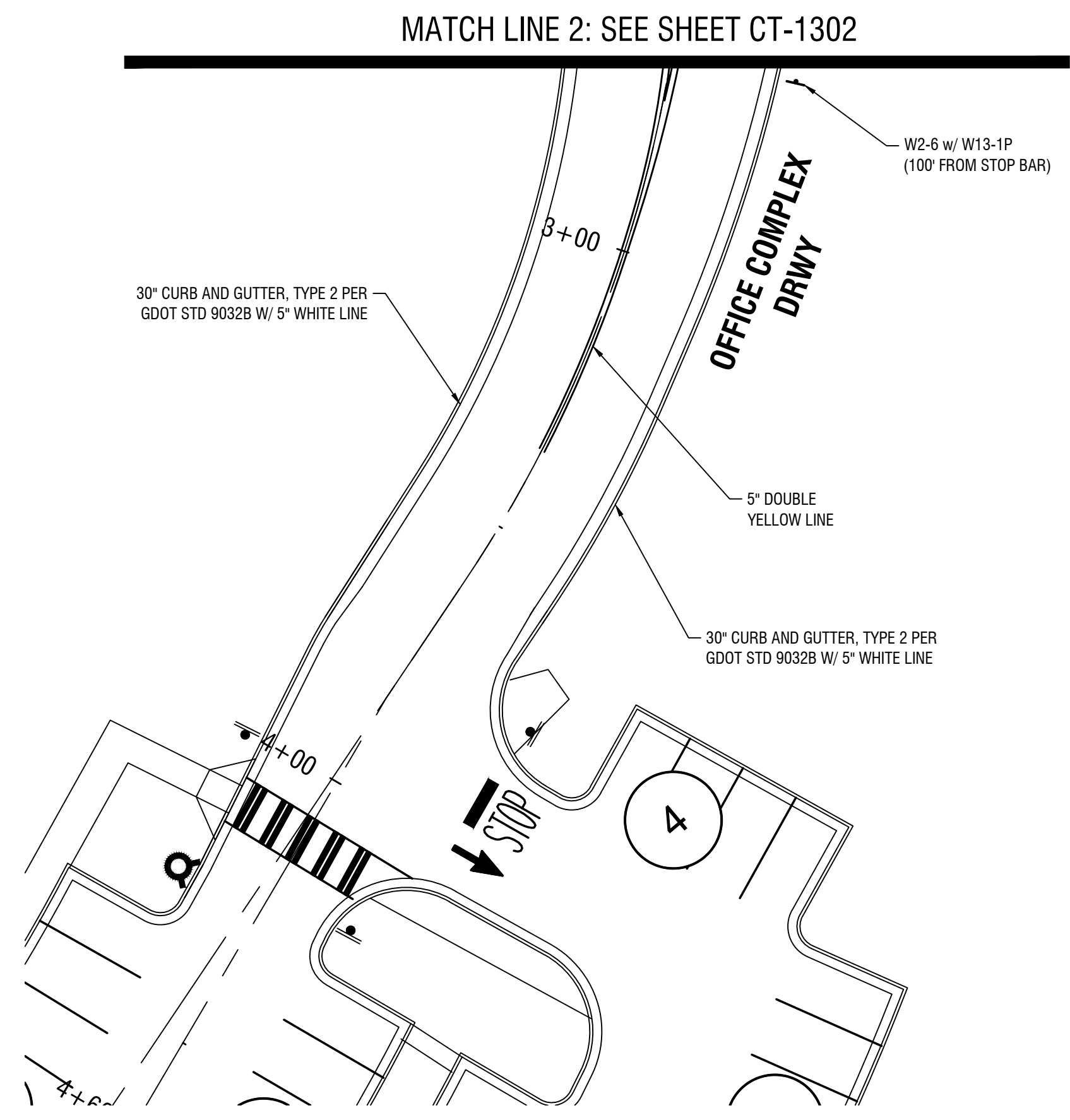
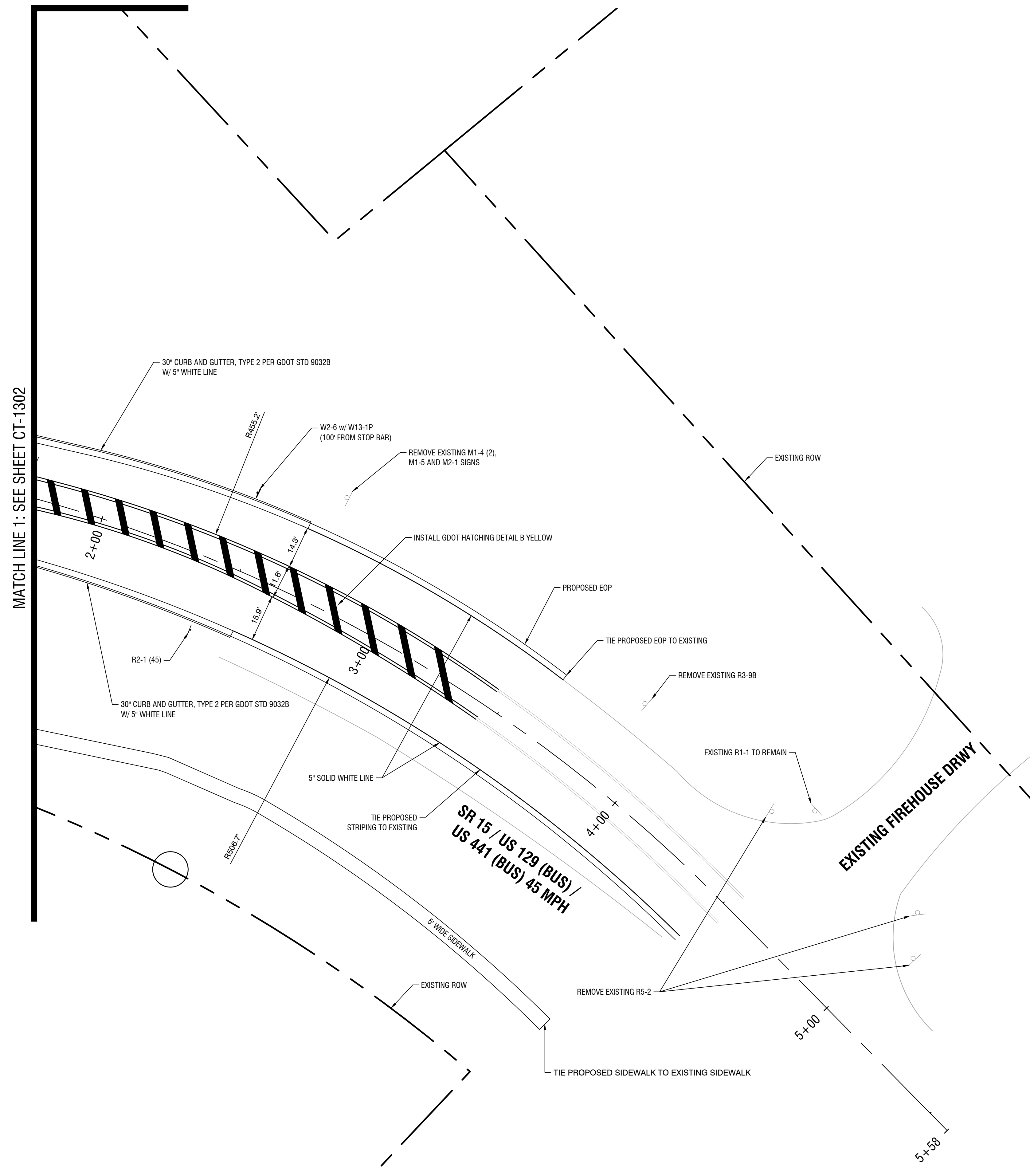
PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
770294952

STAKING AND STRIPING PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT		
LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-1303





REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949652

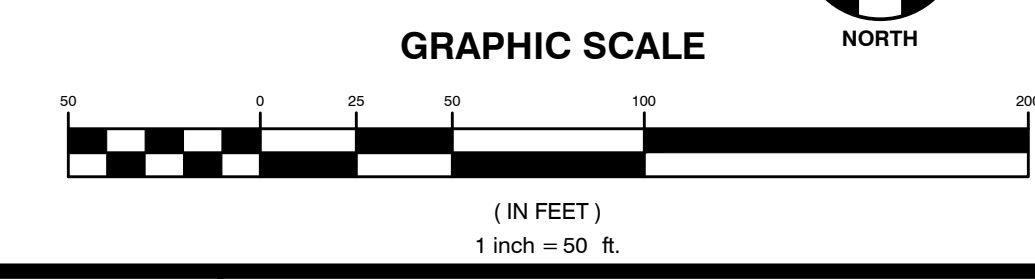
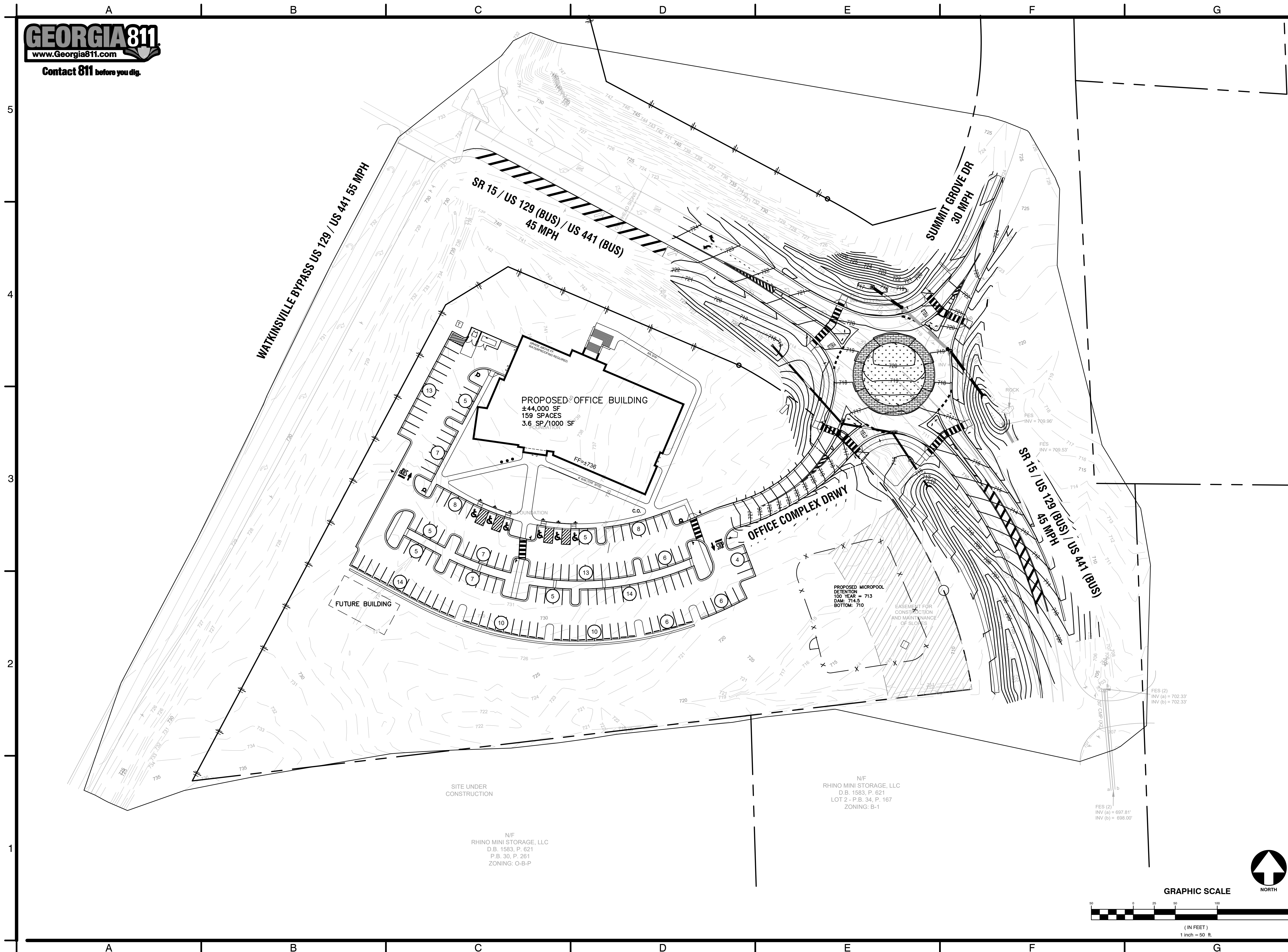
OVERALL GRADING PLAN
#####

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
-

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-1400





REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

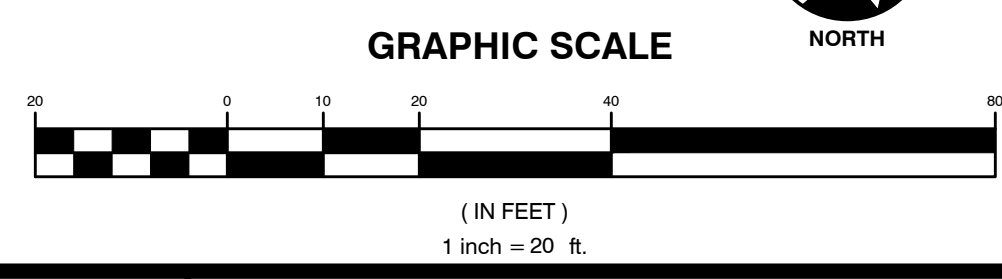
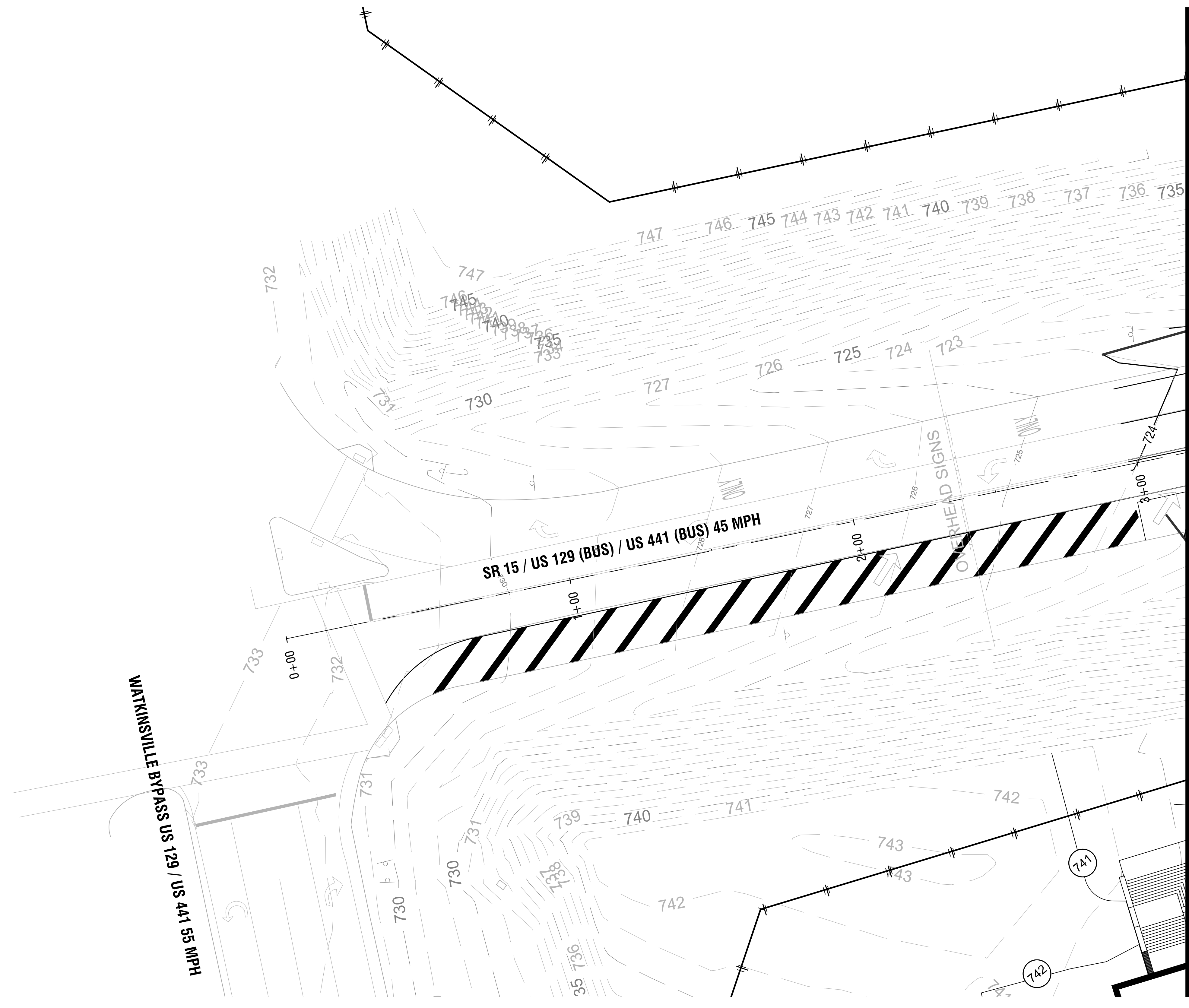
GRADING AND E.S. & P.C. PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
-

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-1401



REVISIONS

No.	DATE	DESCRIPTION
1	2022 MAY 18	REVISED CHECK DAM TYPES
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

GRADING AND E.S. & P.C. PLAN

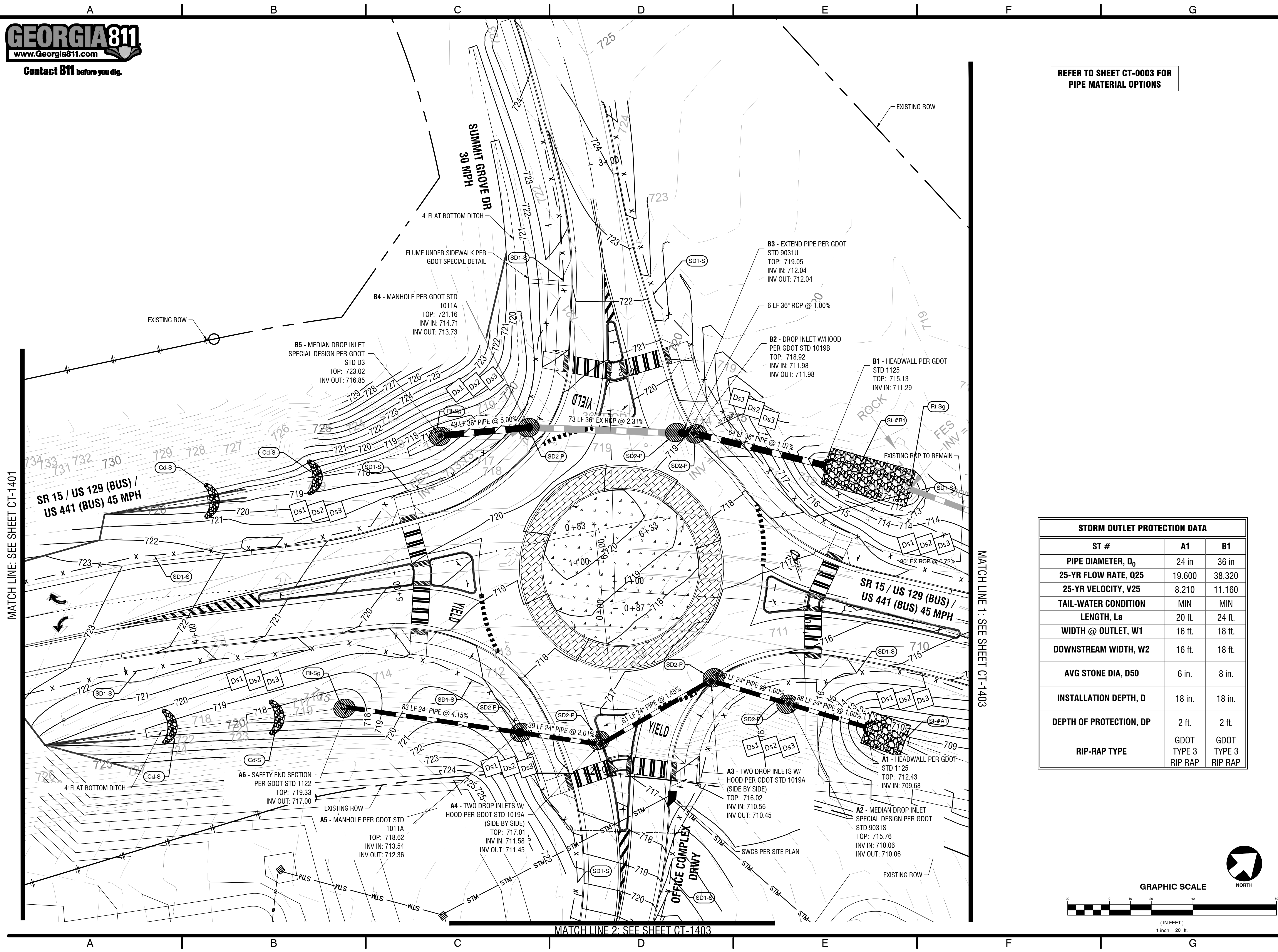
OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SRT15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

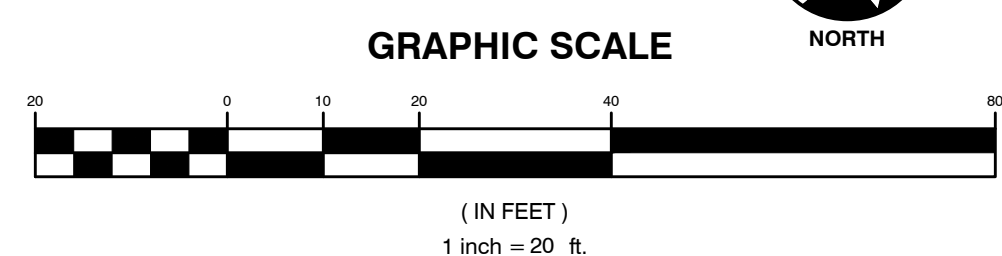
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY DWN BY DATE
FAC CAO 04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-1402

REFER TO SHEET CT-0003 FOR
PIPE MATERIAL OPTIONS



STORM OUTLET PROTECTION DATA		
ST #	A1	B1
PIPE DIAMETER, D ₀	24 in	36 in
25-YR FLOW RATE, Q ₂₅	19.600	38.320
25-YR VELOCITY, V ₂₅	8.210	11.160
TAIL-WATER CONDITION	MIN	MIN
LENGTH, L _a	20 ft.	24 ft.
WIDTH @ OUTLET, W ₁	16 ft.	18 ft.
DOWNSTREAM WIDTH, W ₂	16 ft.	18 ft.
AVG STONE DIA, D ₅₀	6 in.	8 in.
INSTALLATION DEPTH, D	18 in.	18 in.
DEPTH OF PROTECTION, DP	2 ft.	2 ft.
RIP-RAP TYPE	GDOT TYPE 3	GDOT TYPE 3

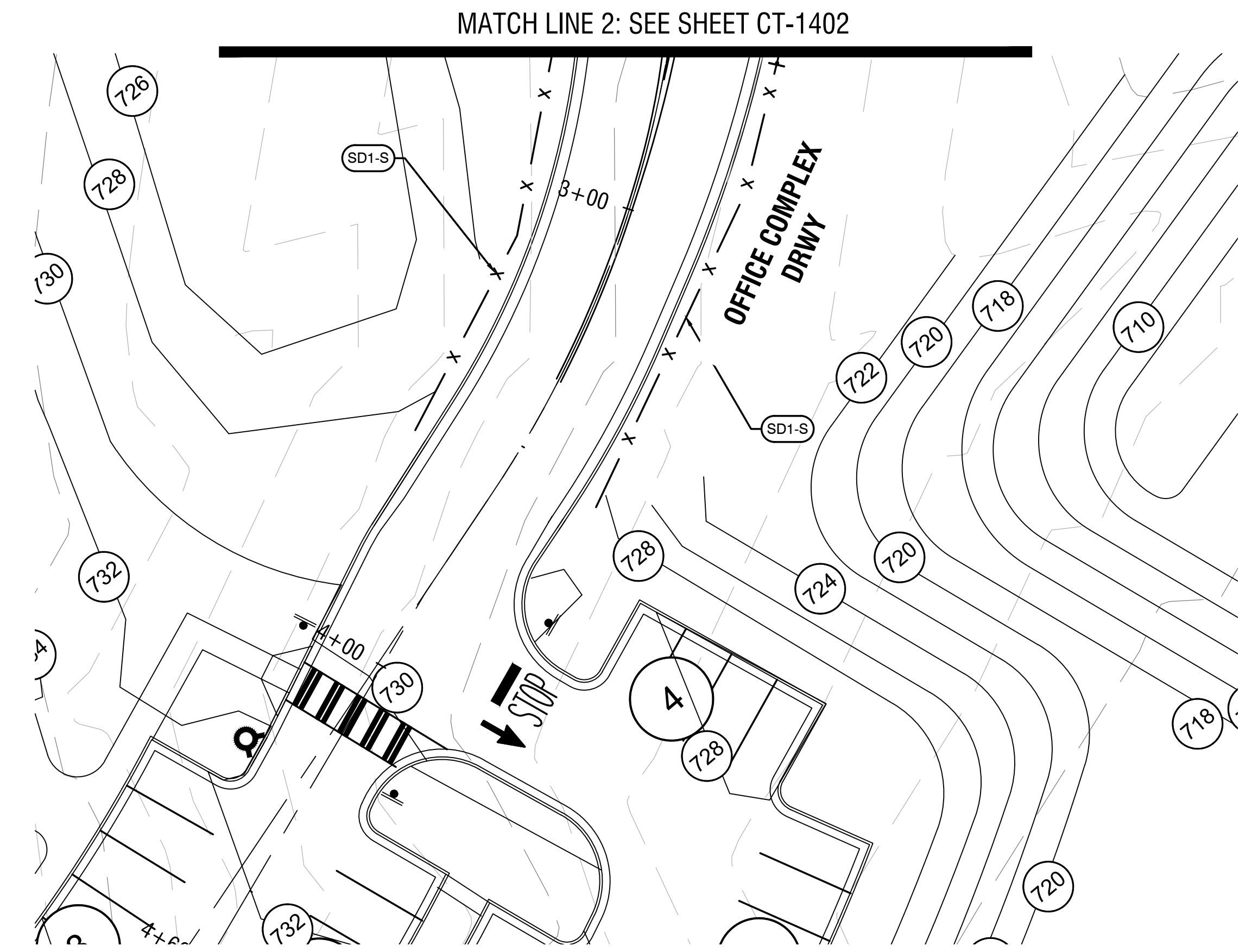


MATCH LINE: SEE SHEET CT-1401

MATCH LINE 1: SEE SHEET CT-1403

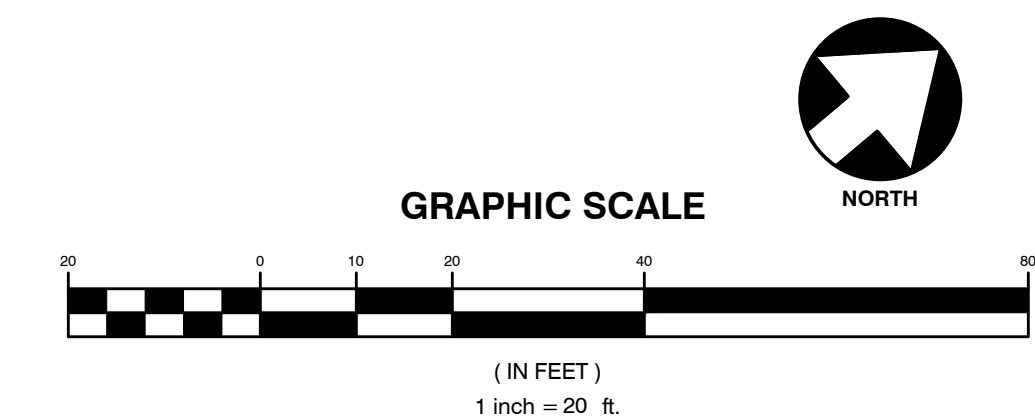
MATCH LINE 2: SEE SHEET CT-1403

Contact 811 before you dig.



REFER TO SHEET CT-0003 FOR PIPE MATERIAL OPTIONS

STORM OUTLET PROTECTION DATA	
ST #	C1
PIPE DIAMETER, D ₀	30 in
25-YR FLOW RATE, Q ₂₅	43.260
25-YR VELOCITY, V ₂₅	8.660
TAIL-WATER CONDITION	MIN
LENGTH, L _a	21 ft.
WIDTH @ OUTLET, W ₁	18 ft.
DOWNSTREAM WIDTH, W ₂	18 ft.
AVG STONE DIA, D ₅₀	7 in.
INSTALLATION DEPTH, D	18 in.
DEPTH OF PROTECTION, DP	2 ft.
RIP-RAP TYPE	GDOT TYPE 3 RIP RAP



REVISIONS

No.	DATE	DESCRIPTION
1	2022 MAY 18	REVISED CHECK DAM TYPES
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

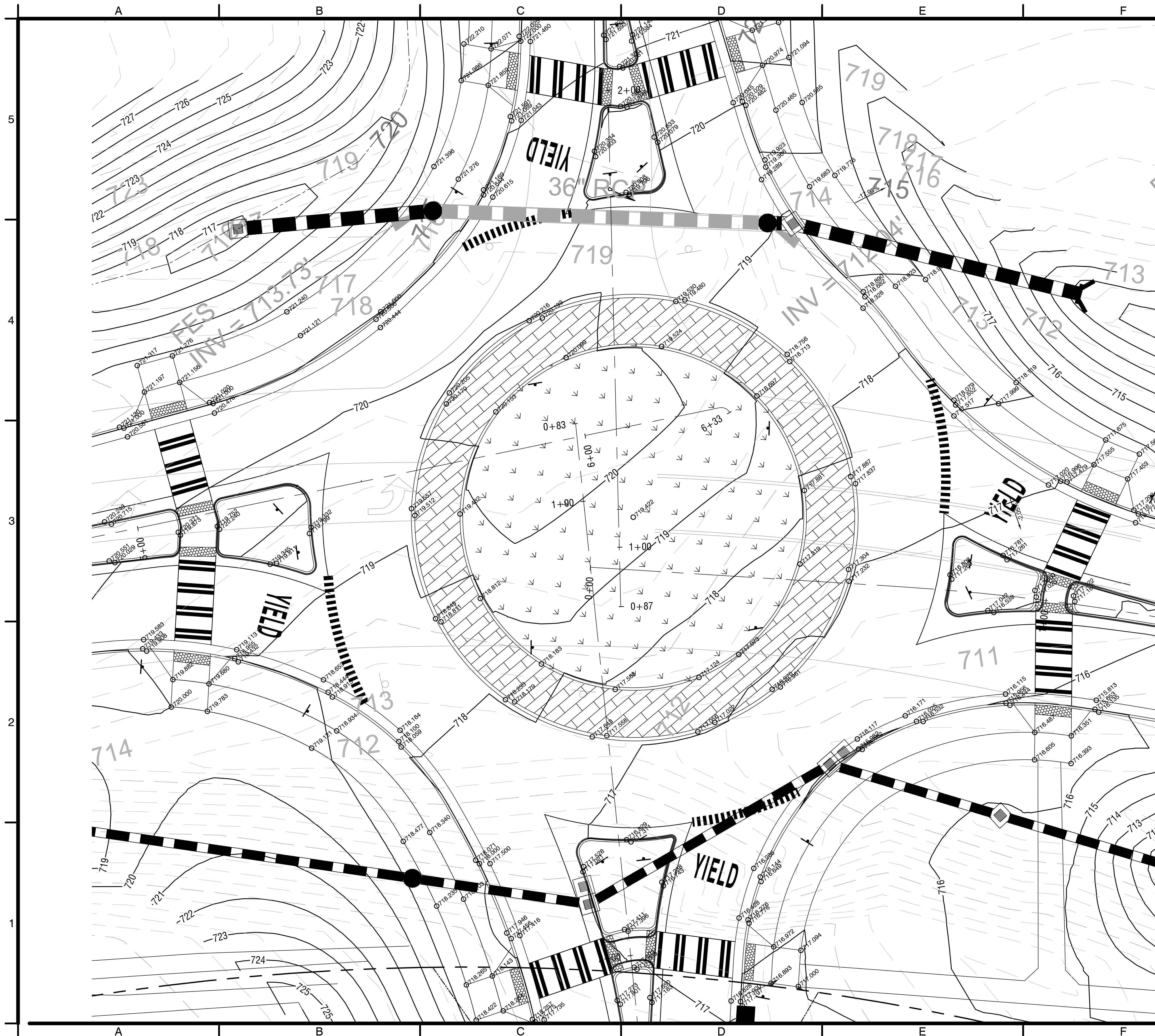
GRADING AND E.S. & P.C. PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-1403



GEORGIA811
 www.Georgia811.com
 Contact 811 before you dig.

A&R ENGINEERING, INC
 2160 Kingston Court, Suite O
 Marietta, GA 30067
 Tel: (770) 690-9255
 www.areng.com
 arengineering@areng.com
 GA COA #PEF004001, EXP 06/30/2022



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

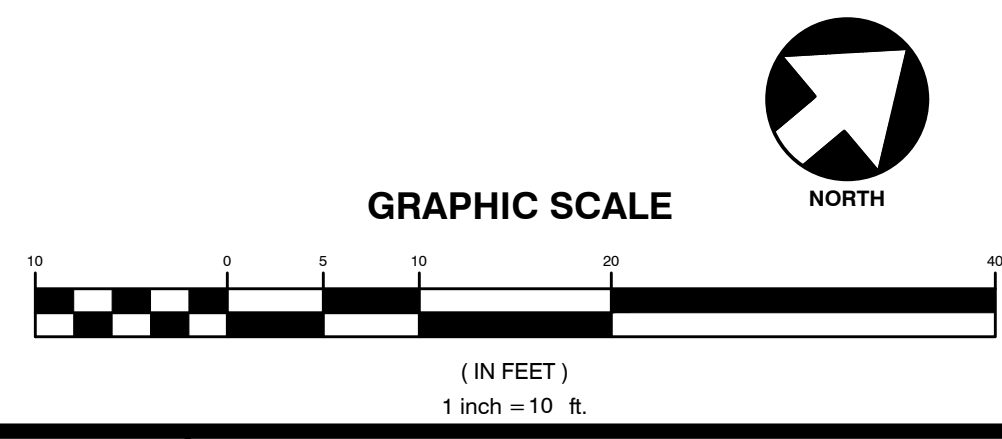
NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY
 7635 MACON HWY.
 WATKINSVILLE, GA 30677
 7702949952

DET. ROUNDABOUT GRADING
 #####
OCONEE CO. ADMINISTRATIVE BUILDING
 ROUNDABOUT AND DRIVEWAY DESIGN
 7575 SRT15/US128(BUS)/US441(BUS)
 WATKINSVILLE, GA 30677

24 HOUR CONTACT
 LL DIST PARCEL ID #
 GMD221 B06029B
 DWN BY CKD BY DATE
 FAC CAO 04/21/2022
 A&R PROJECT #
 21-229

SHEET IDENTIFICATION
CT-1404



UTILITY LEGEND

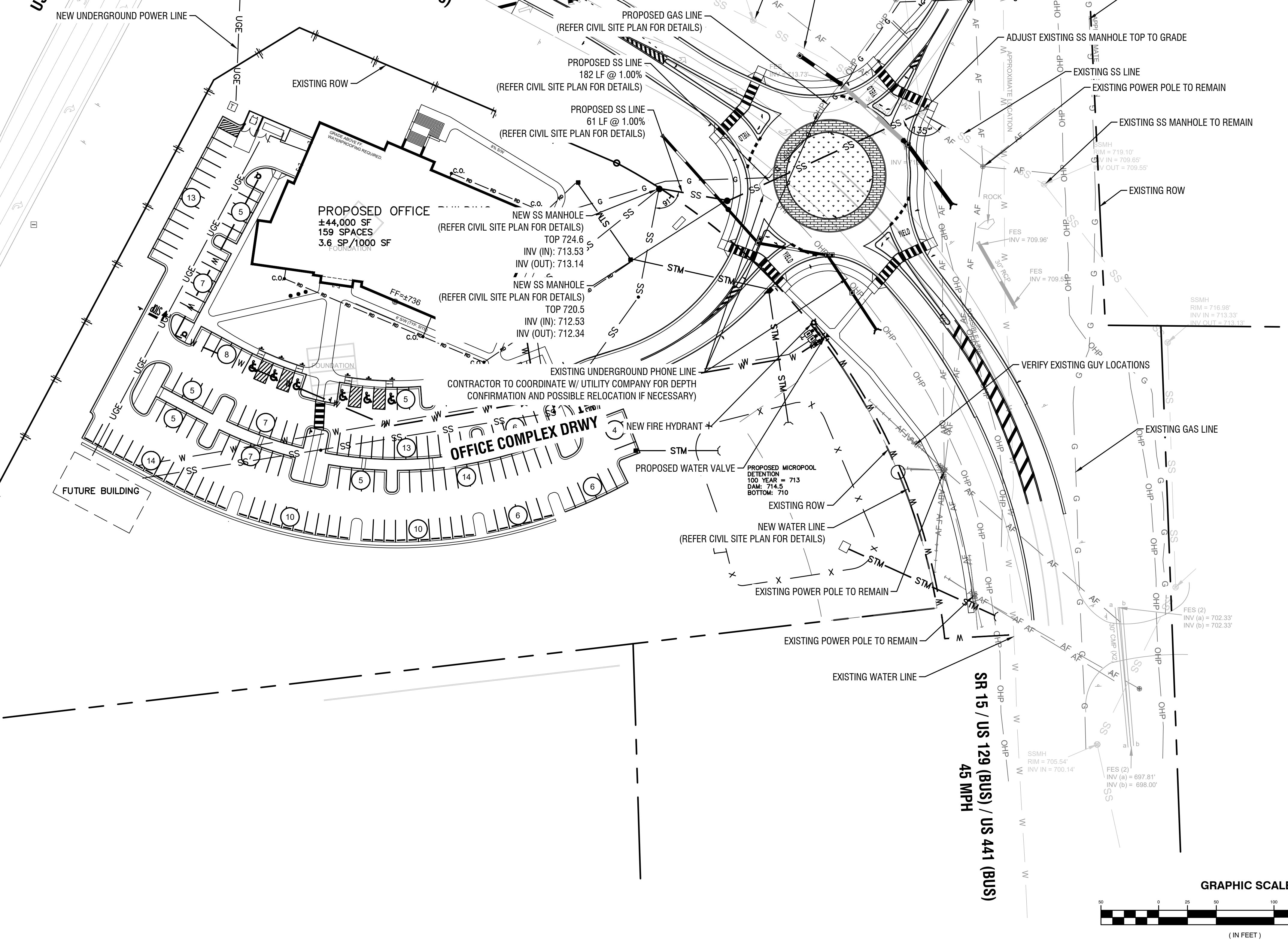
STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC AIR CONDITIONER	OVERHEAD TRAFFIC SIGNAL LIGHT
BH BORE HOLE	POWER POLE
BSL BUILDING SETBACK LINE	GUY WIRE
CI CURB INLET	POWER LINE
CMP CORRUGATED METAL PIPE	LIGHT POLE
CMF CONCRETE MONUMENT FND	ELECTRIC TRANSFORMER
CO SANITARY CLEANOUT	WATER VAULT
CPED COMMUNICATION PEDESTAL	GAS VALVE
CTP CRIMPED TOP PIPE	GAS METER
DI DROP INLET	WATER VALVE
DIP DUCTILE IRON PIPE	WATER METER
DWCB DOUBLE WING CATCH BASIN	FIRE HYDRANT
EBX UNDERGROUND ELECTRIC BOX	UNDERGROUND ELECTRIC LINE
FNC FENCE	UNDERGROUND GAS LINE
FND FOUND	UNDERGROUND COMMUNICATION LINE
GM GAS METER	UNDERGROUND WATER LINE
INV INVERT	PHOTO POSITION INDICATOR
JB JUNCTION BOX	REGULAR PARKING SPACE COUNT
MH MANHOLE	HANDICAP PARKING SPACE
OHP OVERHEAD POWER	TREE POSITION INDICATOR
OTP OPEN TOP PIPE	
PM POWER METER	
POB POINT OF BEGINNING	
POC POINT OF COMMENCEMENT	
RCP REINFORCED CONCRETE PIPE	
RBR IRON REINFORCING BAR	
RBS 5/8" RIB SET	
SS SANITARY SEWER	
SWCB SINGLE WING CATCH BASIN	
TRANS ELECTRIC TRANSFORMER	

WATKINSVILLE BYPASS
US 129 / US 441 55 MPH

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH

SUMMIT GROVE DR
30 MPH

SR 15 / US 129 (BUS) / US 441 (BUS)
45 MPH



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

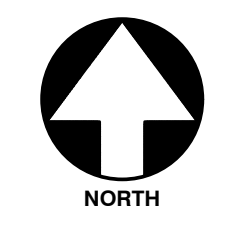
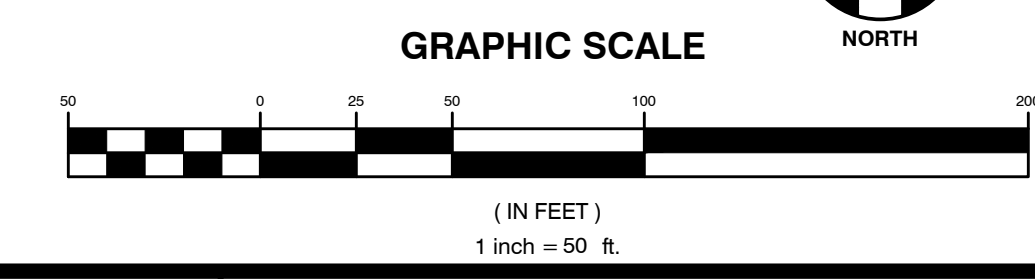
PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

UTILITY PLAN

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY FAC CKD BY CAO DATE
04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-1500





REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

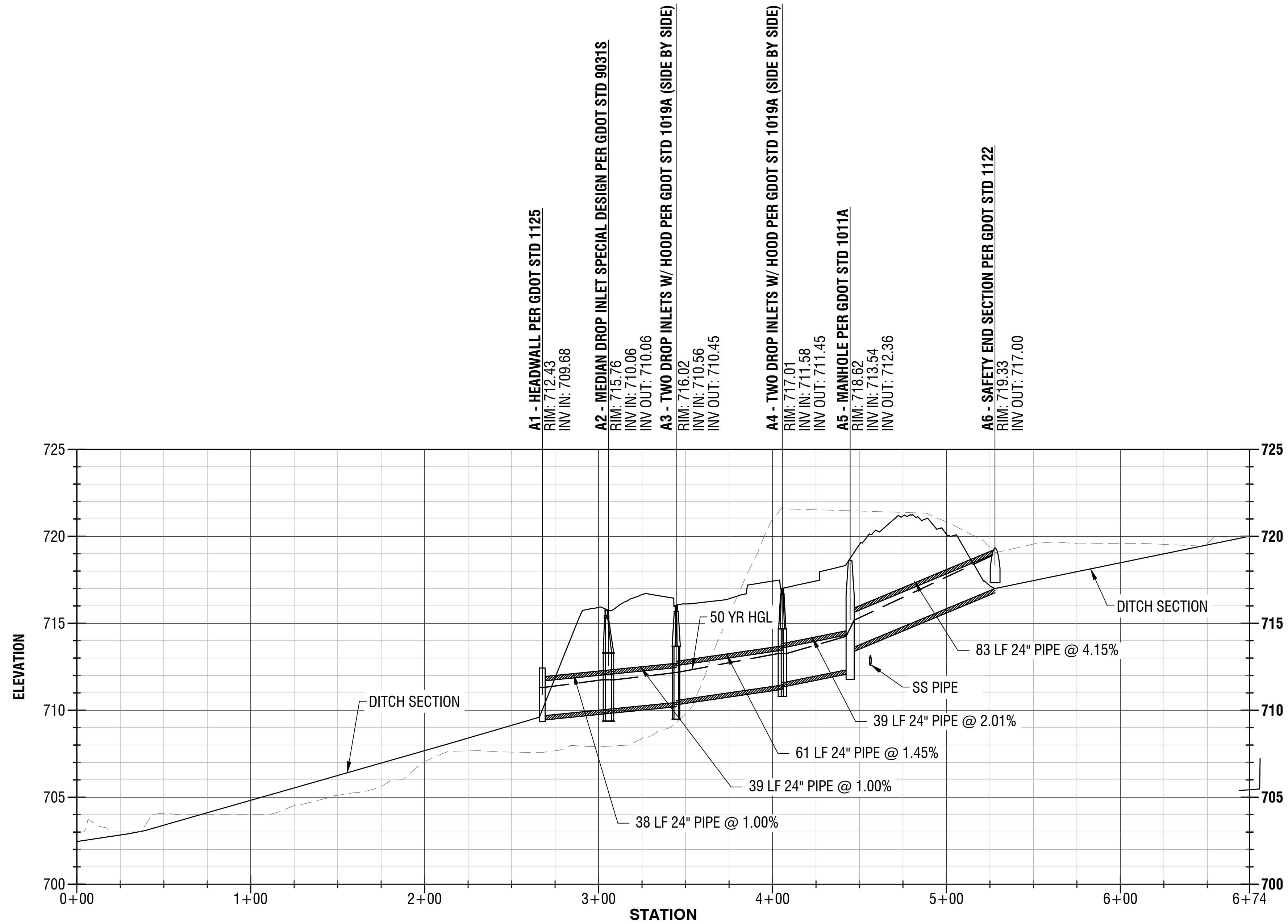
NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

STORM PROFILES

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677



STORM A RUN PROFILE
HORIZONTAL SCALE - 1:40
VERTICAL SCALE - 1:4

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)	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		
																					50 Year		Structure Type	Storm Event	Gutter Spread (feet)
																					UPSTREAM	DOWNSTREAM			
A6	A5	36441	0.84	46180.00	1.06	82621.00	1.90	0.68	9.04	5.00	14.02		14.02	24.00	83 FT	RCP	4.15%	46.21	30.34%	15.72	718.97	715.18	SES	10 Year	-
A5	A4								9.04	5.00			14.02	24.00	39 FT	RCP	2.00%	32.08	43.70%	10.88	714.25	713.26	MH	10 Year	-
A4	A3	11423	0.26	2894.00	0.07	14317.00	0.33	0.87	9.04	5.00	3.11		17.13	24.00	61 FT	RCP	1.45%	27.31	62.72%	9.47	713.26	712.21	DI	10 Year	5.12
A3	A2	23057	0.53	4455.00	0.10	27512.00	0.63	0.90	9.04	5.00	6.15		23.28	24.00	39 FT	RCP	1.00%	22.68	102.65%	7.98	712.14	711.75	DI	10 Year	8.99
A2	A1			1200.00	0.03	1200.00	0.03	0.45	9.04	5.00	0.15		23.43	24.00	38 FT	RCP	1.00%	22.68	103.31%	8.09	711.75	711.32	MDI	10 Year	-
B5	B4			398574.00	9.15	398574.00	9.15	0.45	9.04	5.00	44.67		44.67	36.00	43 FT	RCP	5.00%	149.54	29.87%	22.58	719.83	717.17	MDI	10 Year	-
B4	B3								9.04	5.00			44.67	36.00	73 FT	RCP	2.31%	101.65	43.94%	14.91	716.63	714.69	MH	10 Year	-
B3	B2								9.04	5.00			44.67	36.00	6 FT	RCP	1.00%	66.88	66.79%	10.49	714.69	714.62	MH	10 Year	-
B2	B1	3662	0.08	2541.00	0.06	6203.00	0.14	0.75	9.04	5.00	1.14		45.81	36.00	64 FT	RCP	1.07%	69.18	66.22%	10.82	714.62	713.75	DI	10 Year	4.04

NOTE: WHILE STRUCTURE A3 IS GREATER THAN 8 FT OF SPREAD, THE LANE WIDTH IS OVER 19 FT. LESS THAN HALF OF THE LANE WILL BE PONDED. FURTHER, THE GRADING IS SUCH THAT EXCESS PONDED AT THE ROUNDBOUT LOWPOINT (A3) WILL NOT RESULT IN EXCESS PONDED BEFORE WATER ESCAPES.

24 HOUR CONTACT
-

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-2201



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

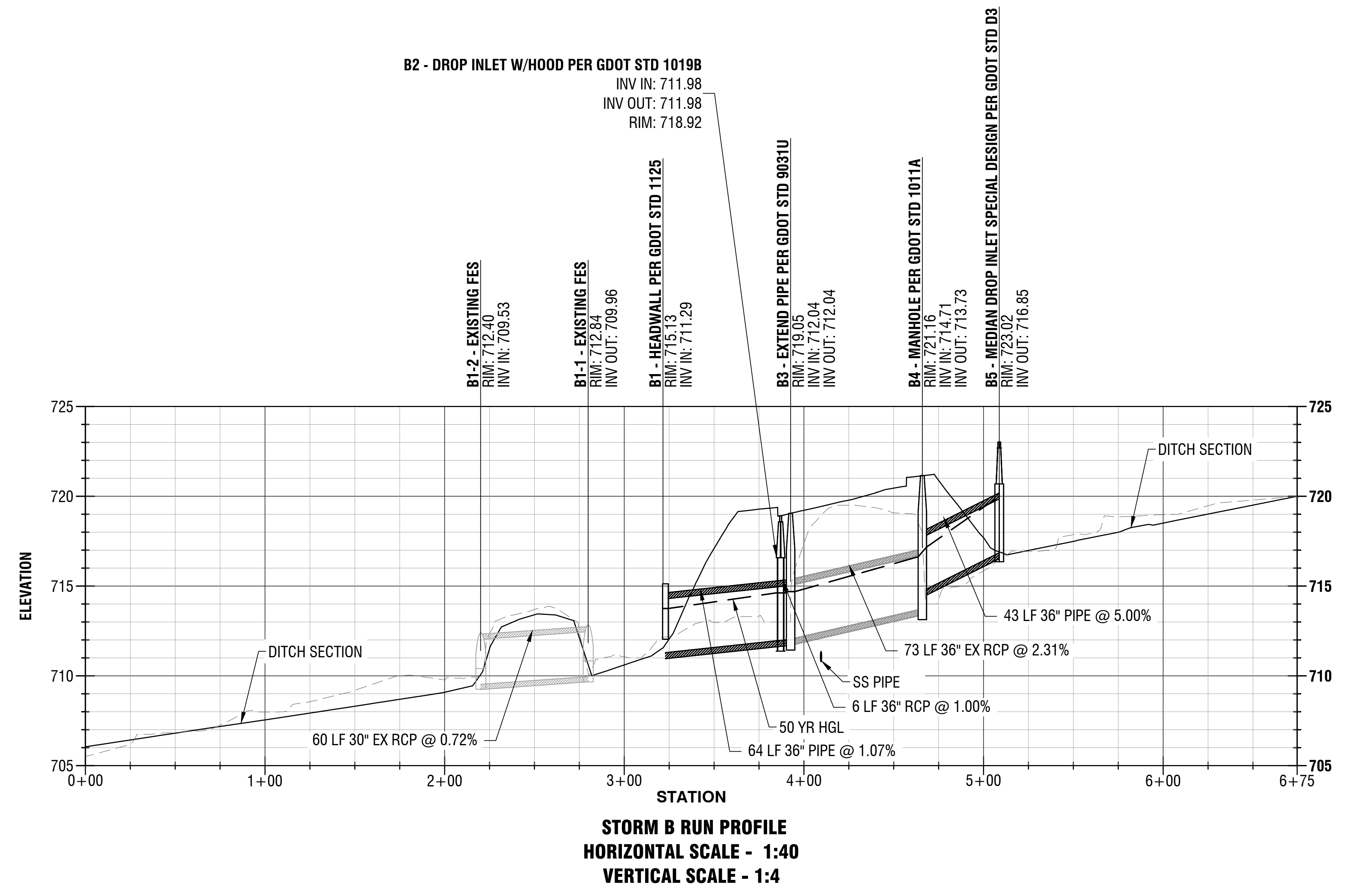
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

STORM PROFILES

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT			
LL	DIST	PARCEL ID #	
---	GMD221	B06029B	
DWN BY	CKD BY	DATE	
FAC	CAO	04/21/2022	
A&R PROJECT #			
21-229			

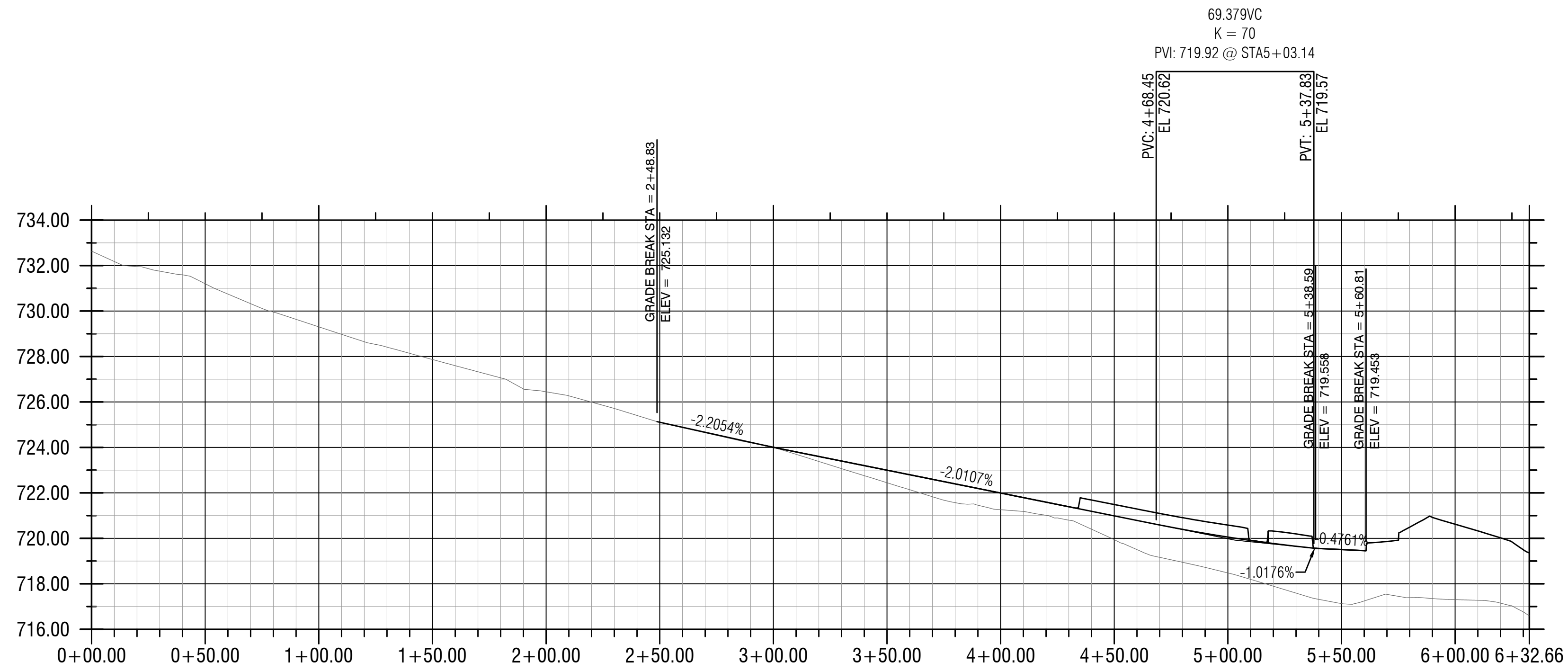
SHEET IDENTIFICATION
CT-2202



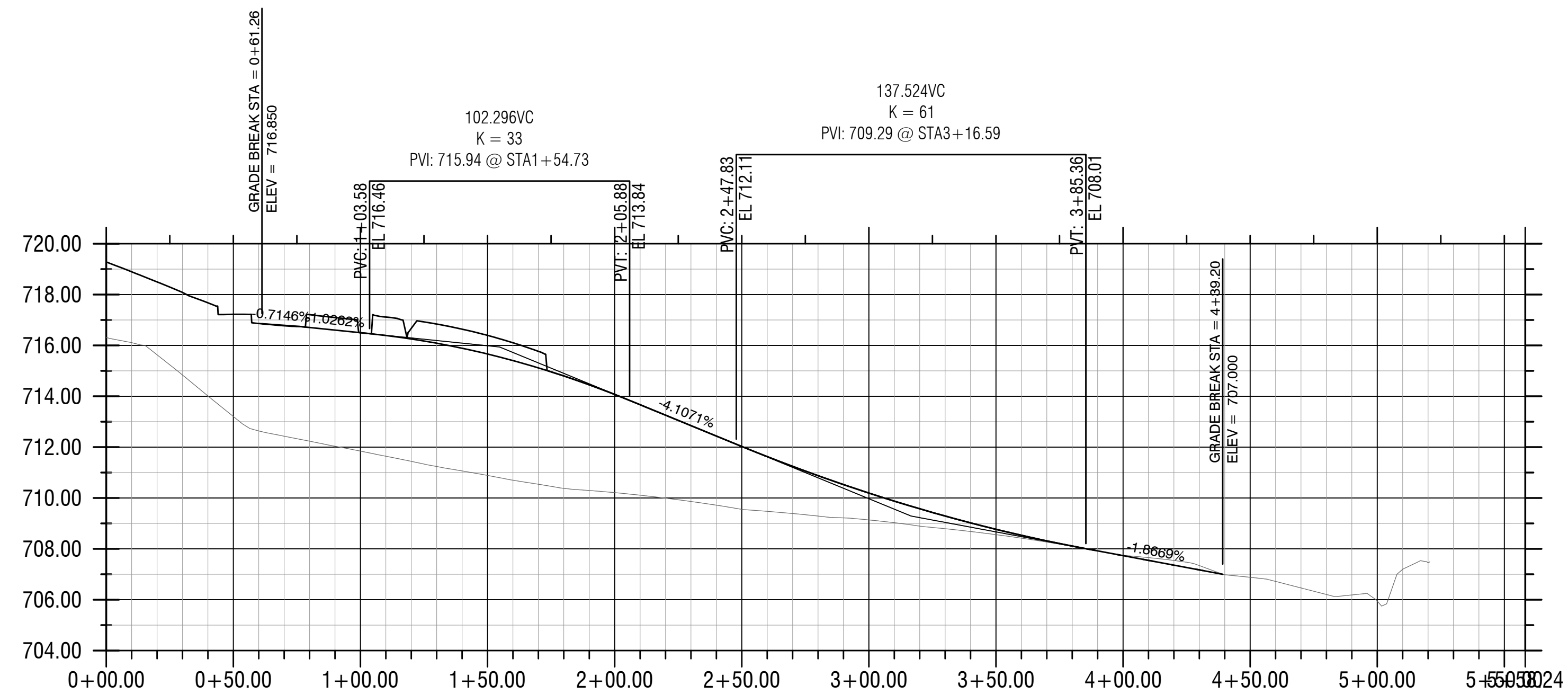
A B C D E F G

A B C D E F G

5
4
3
2
1



SR15 West Approach PROFILE
H = 1:40, V = 1:4



SR15 East Approach PROFILE
H = 1:40, V = 1:4



REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

ROADWAY PROFILES

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SR15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT			
-			
LL	DIST	PARCEL ID #	
----	GMD221	B06029B	
DWN BY	CKD BY	DATE	
FAC	CAO	04/21/2022	
A&R PROJECT #			
21-229			

SHEET IDENTIFICATION
CT-2401

REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

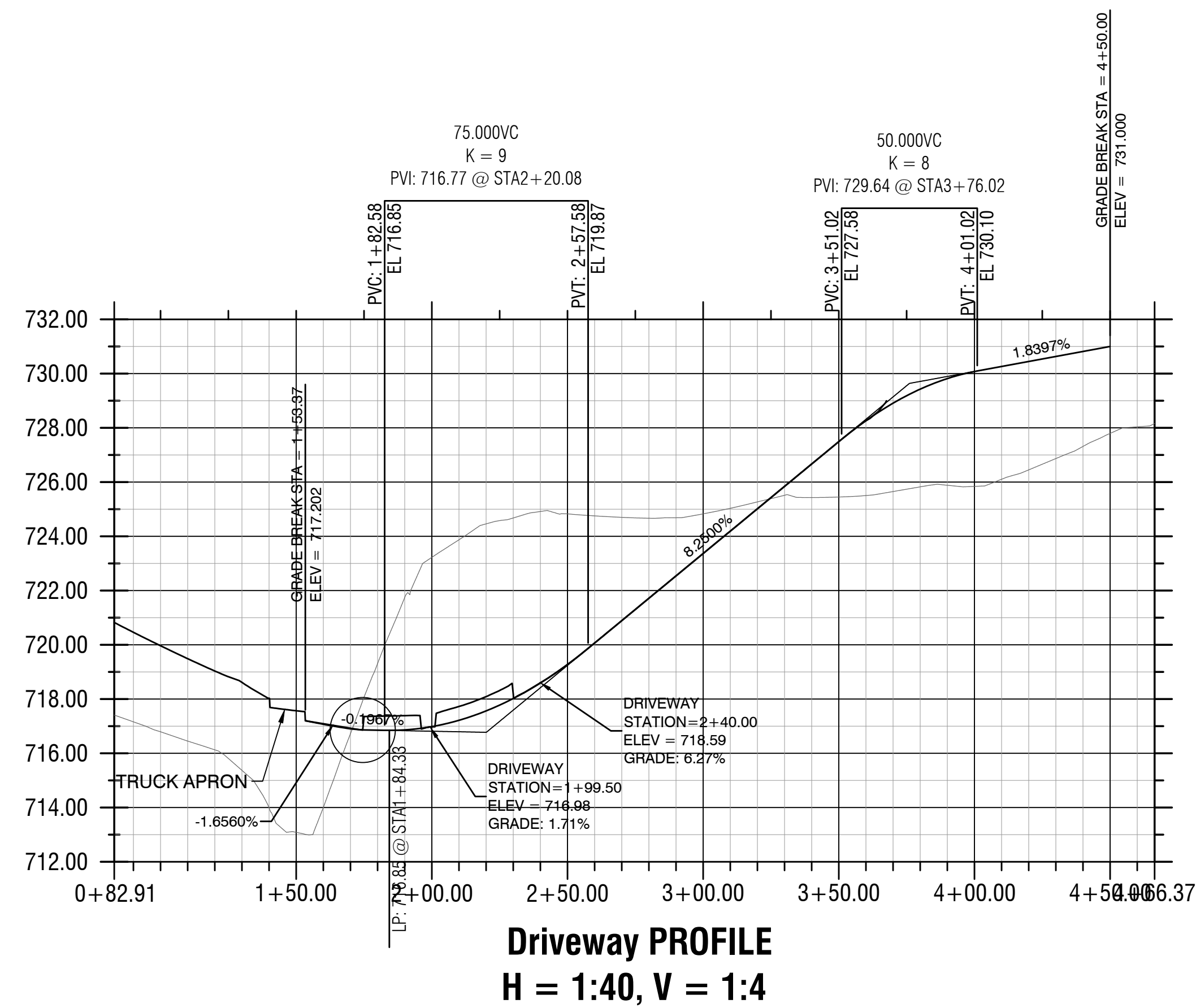
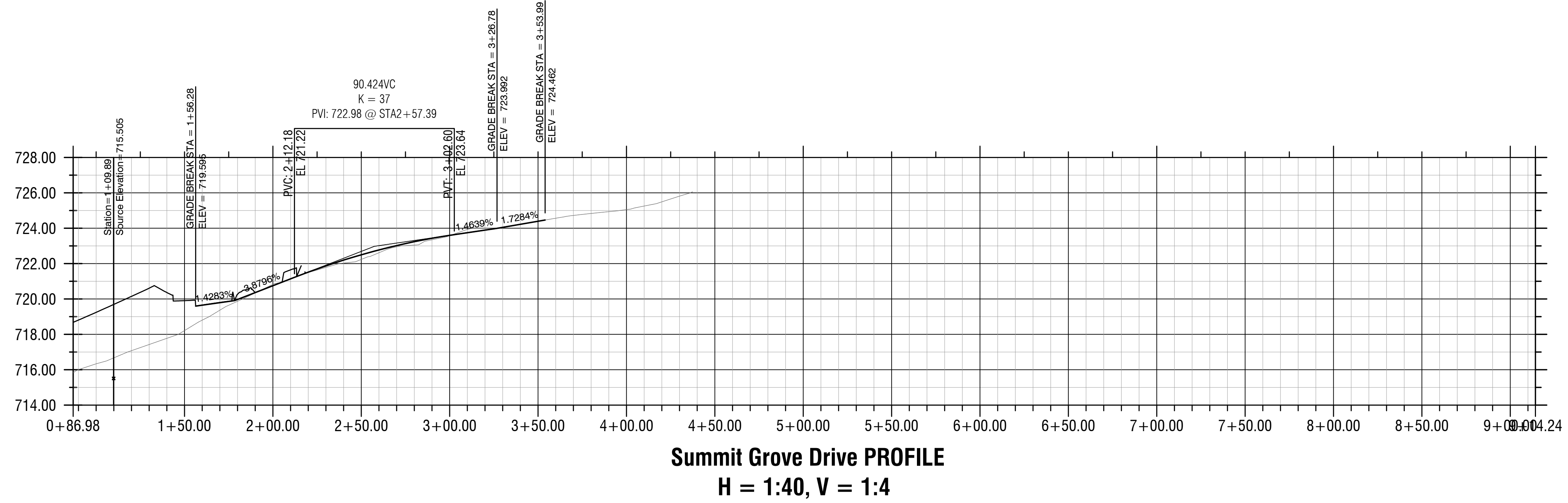
ROADWAY PROFILES

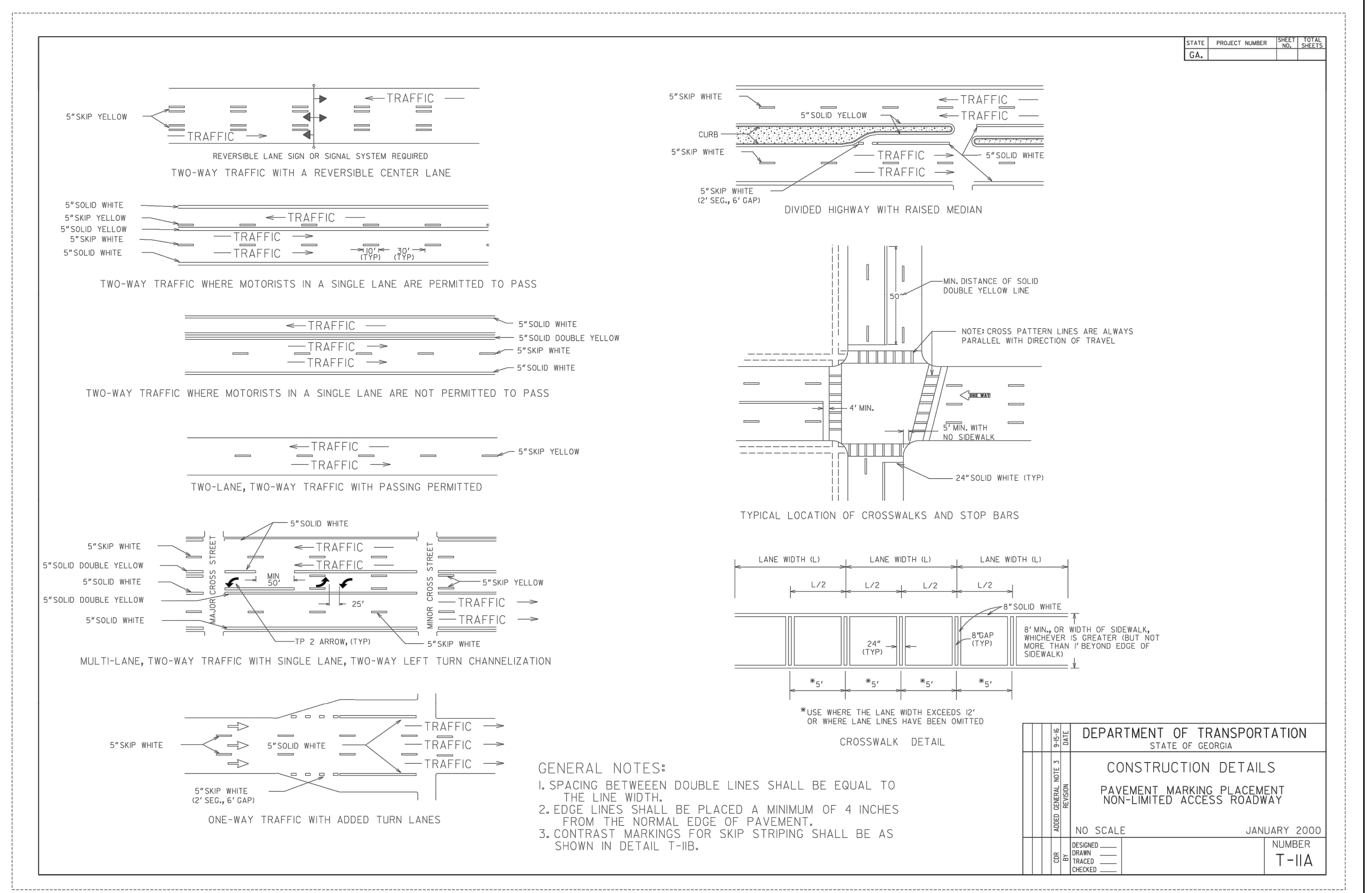
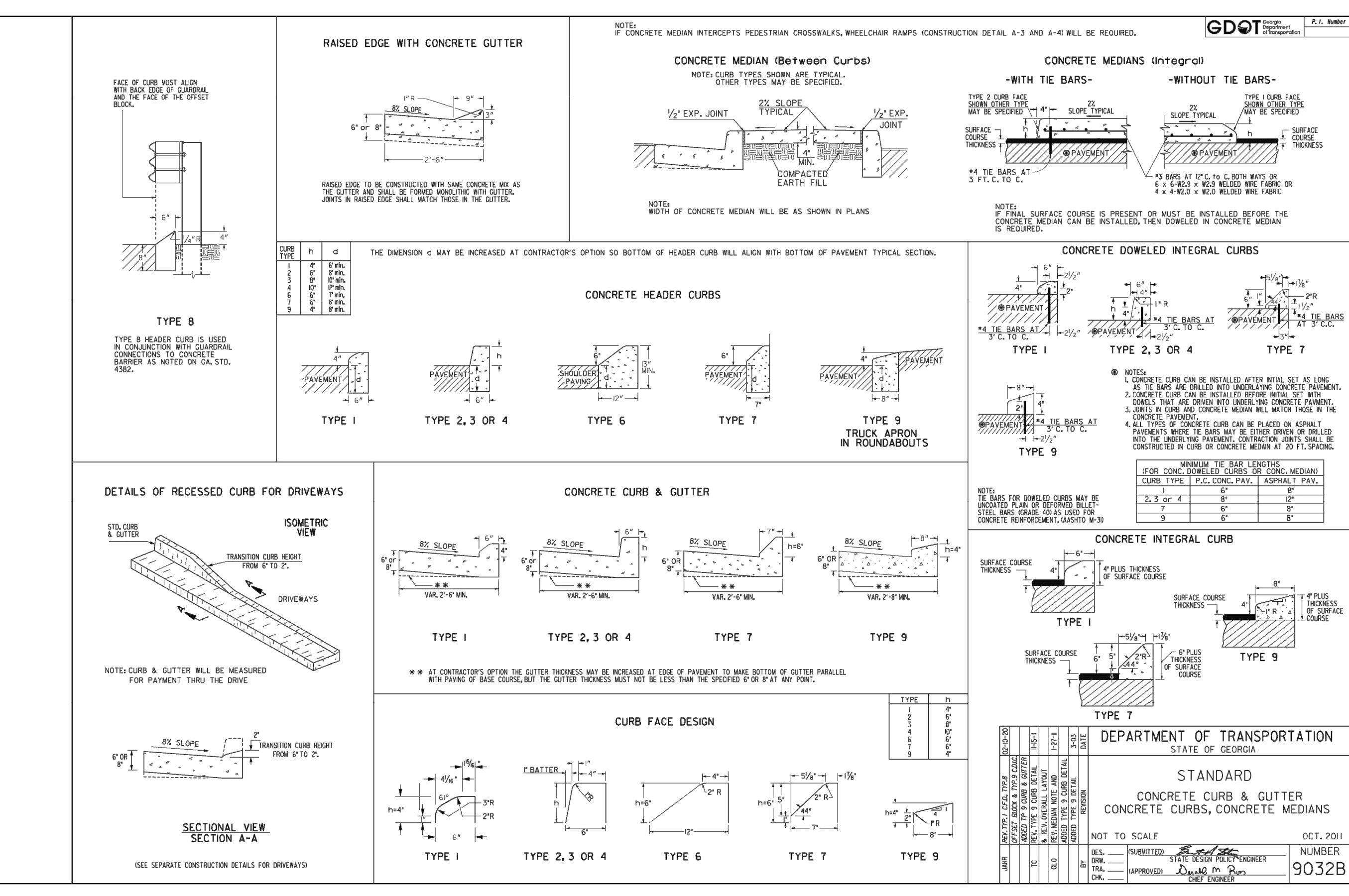
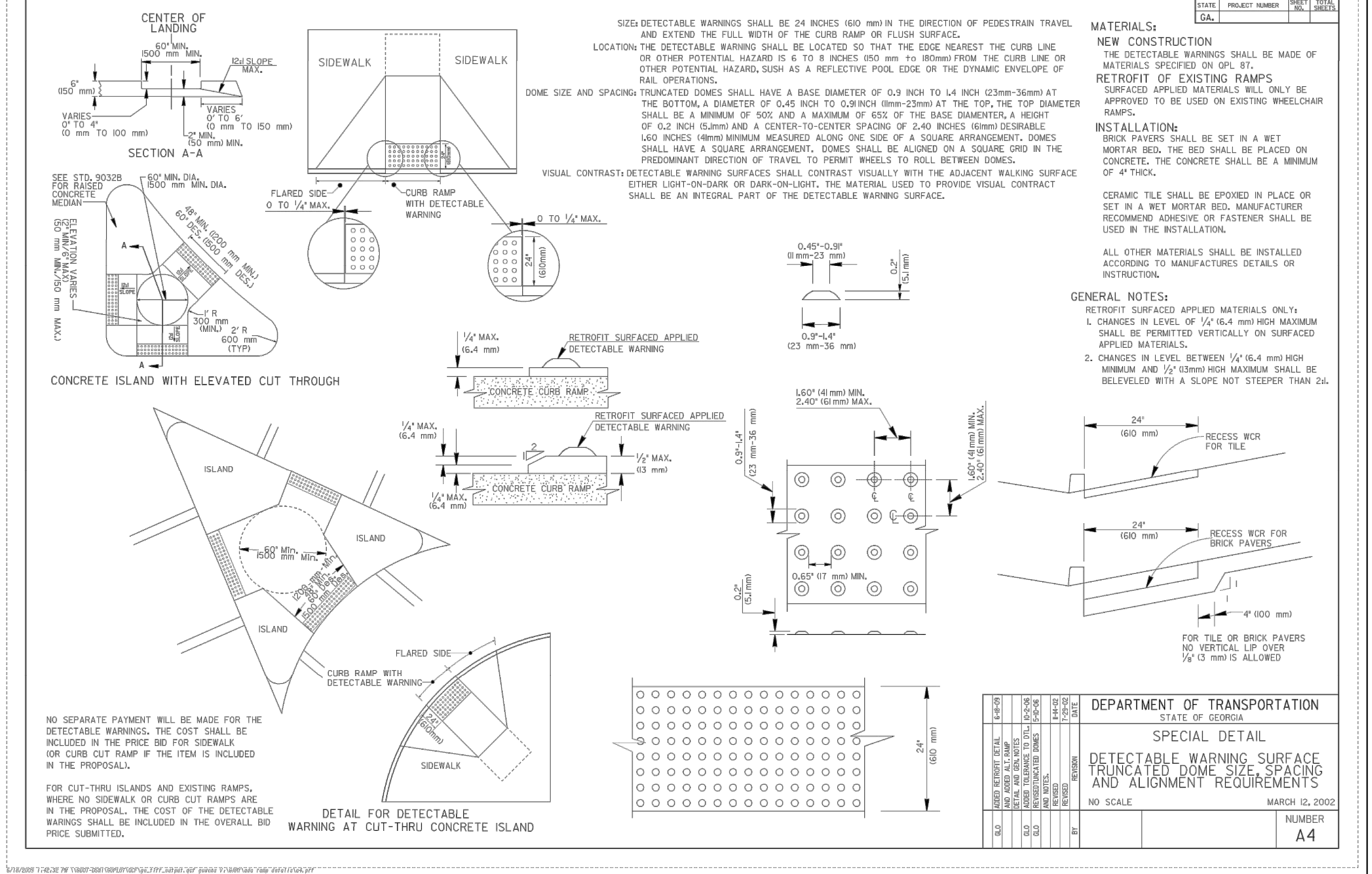
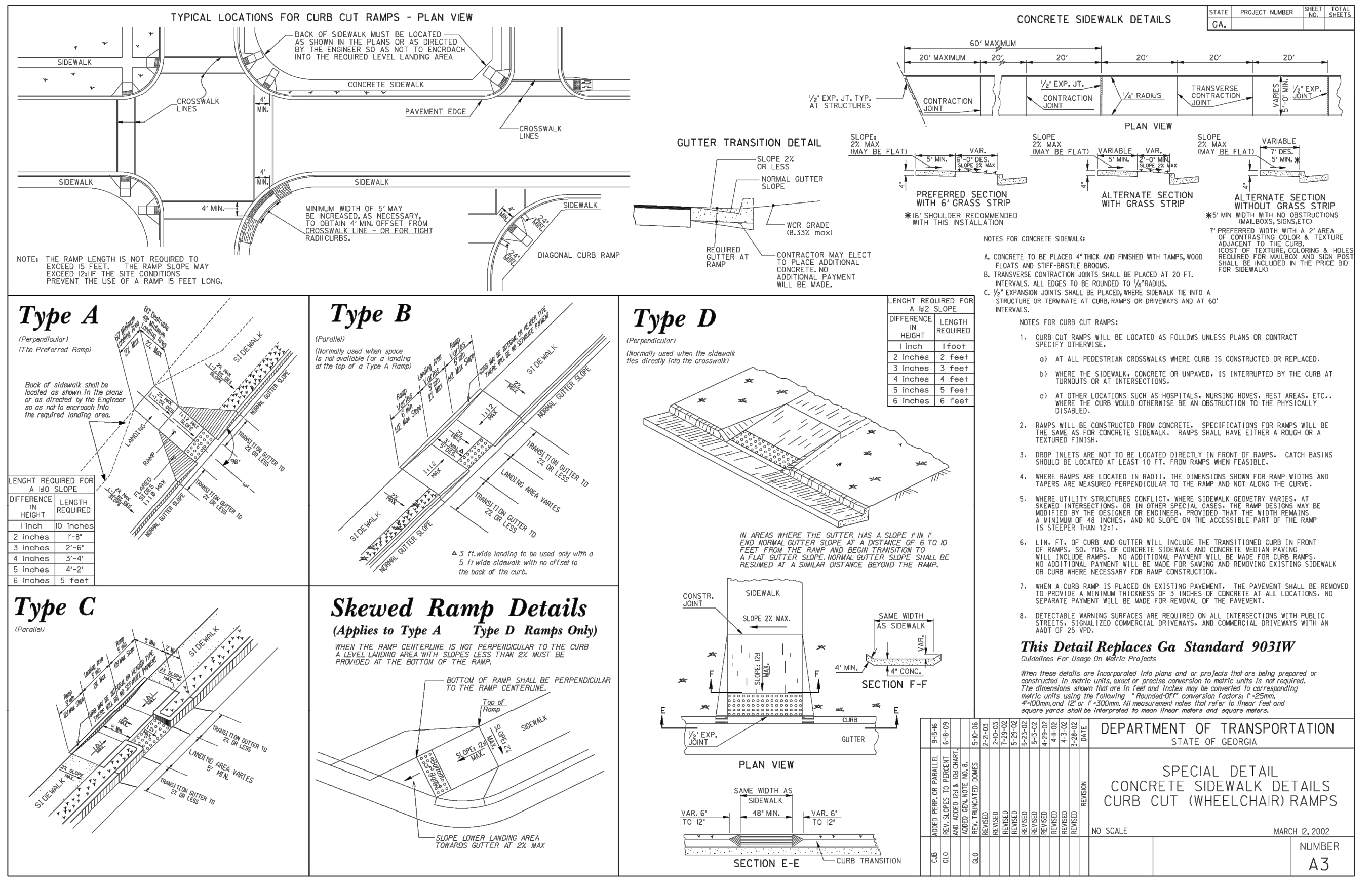
OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US129(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
-

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-2402





REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

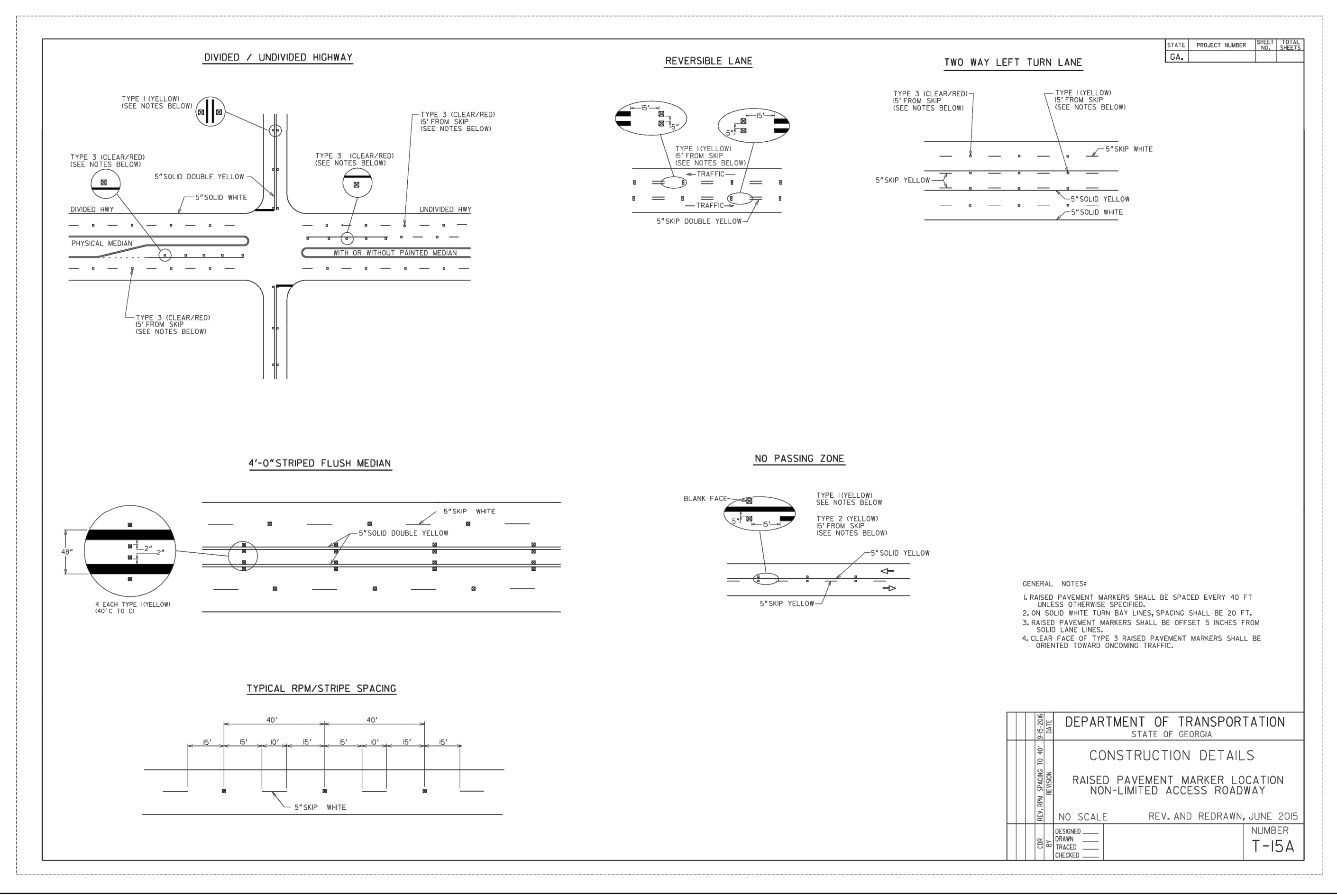
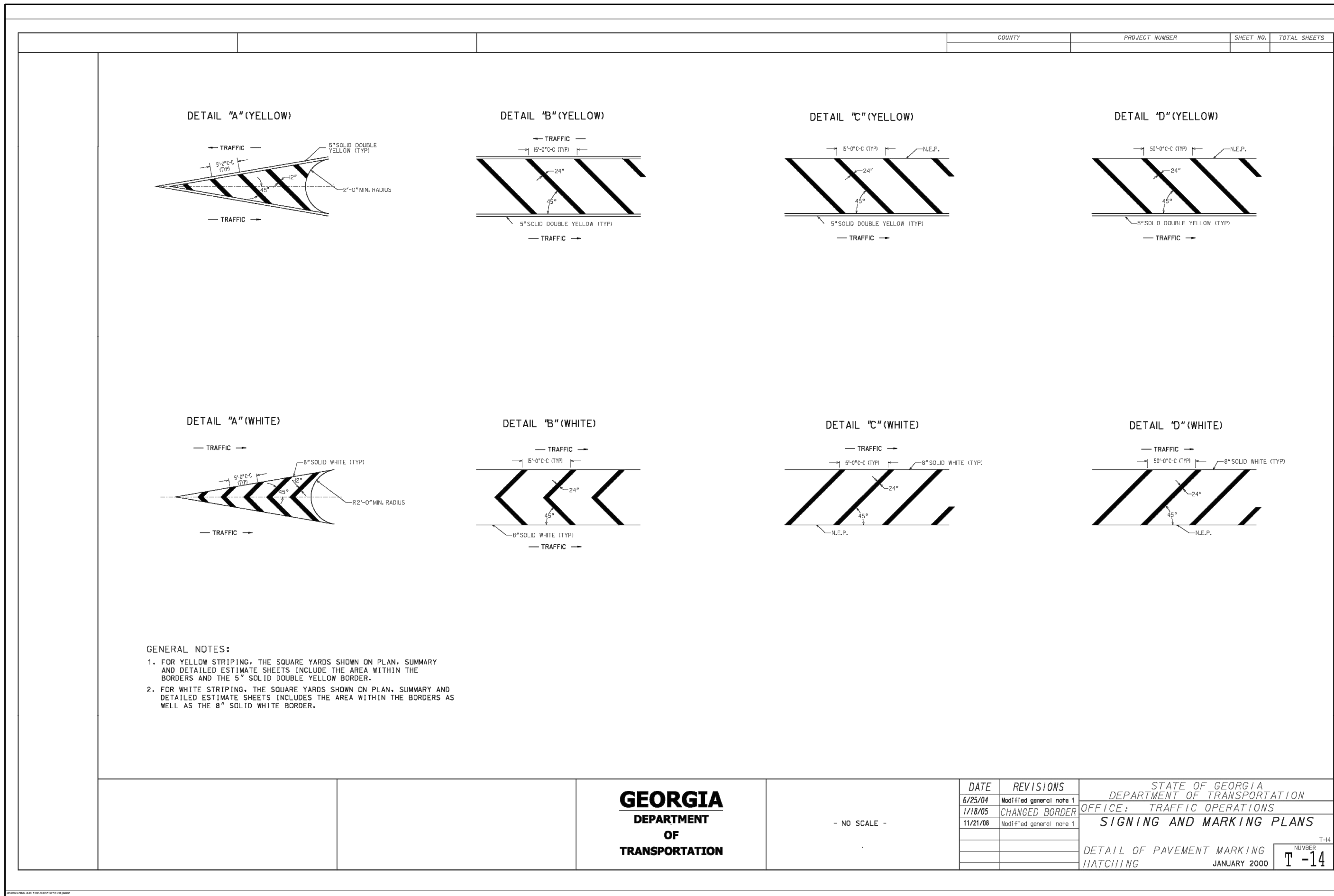
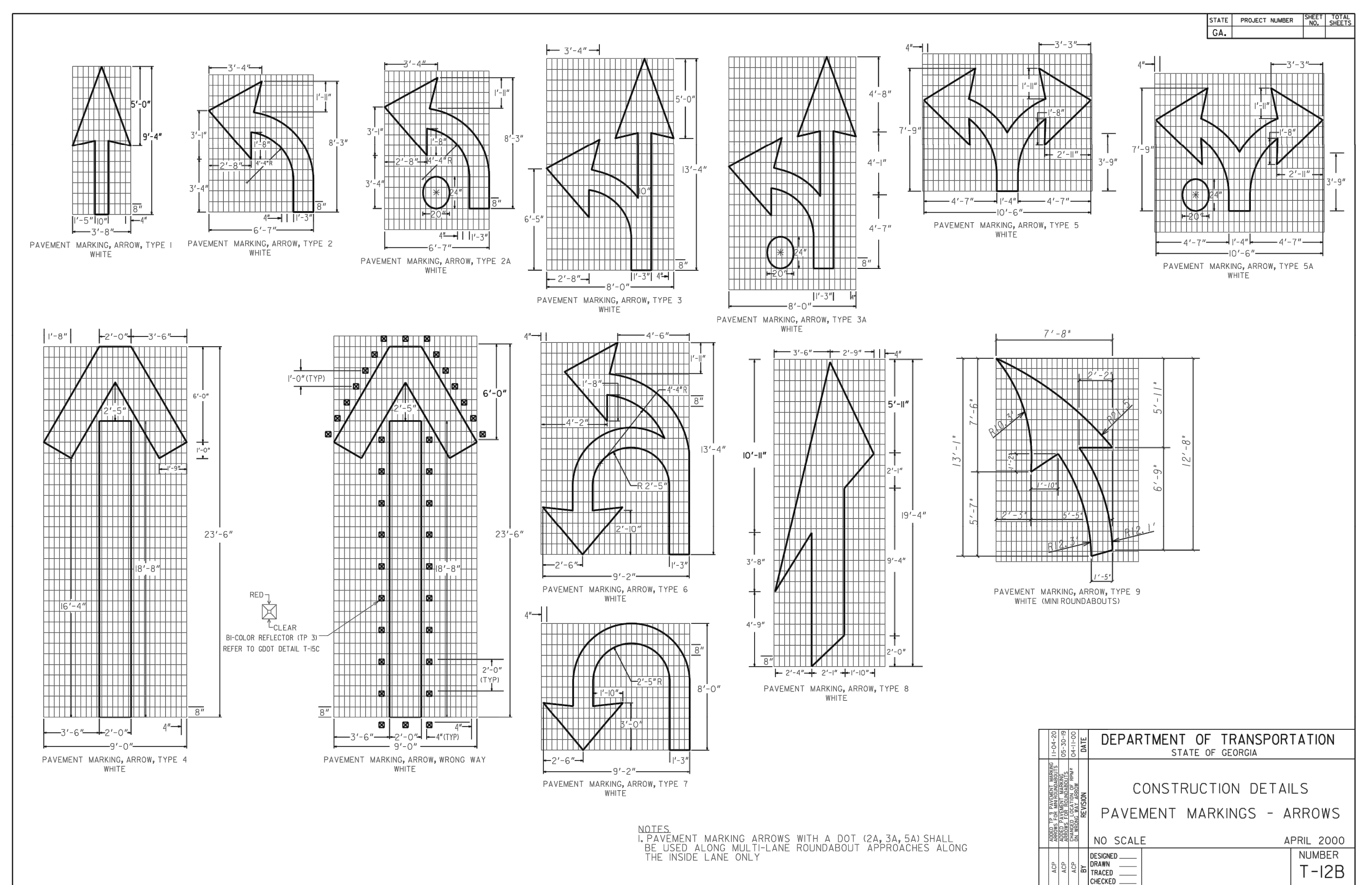
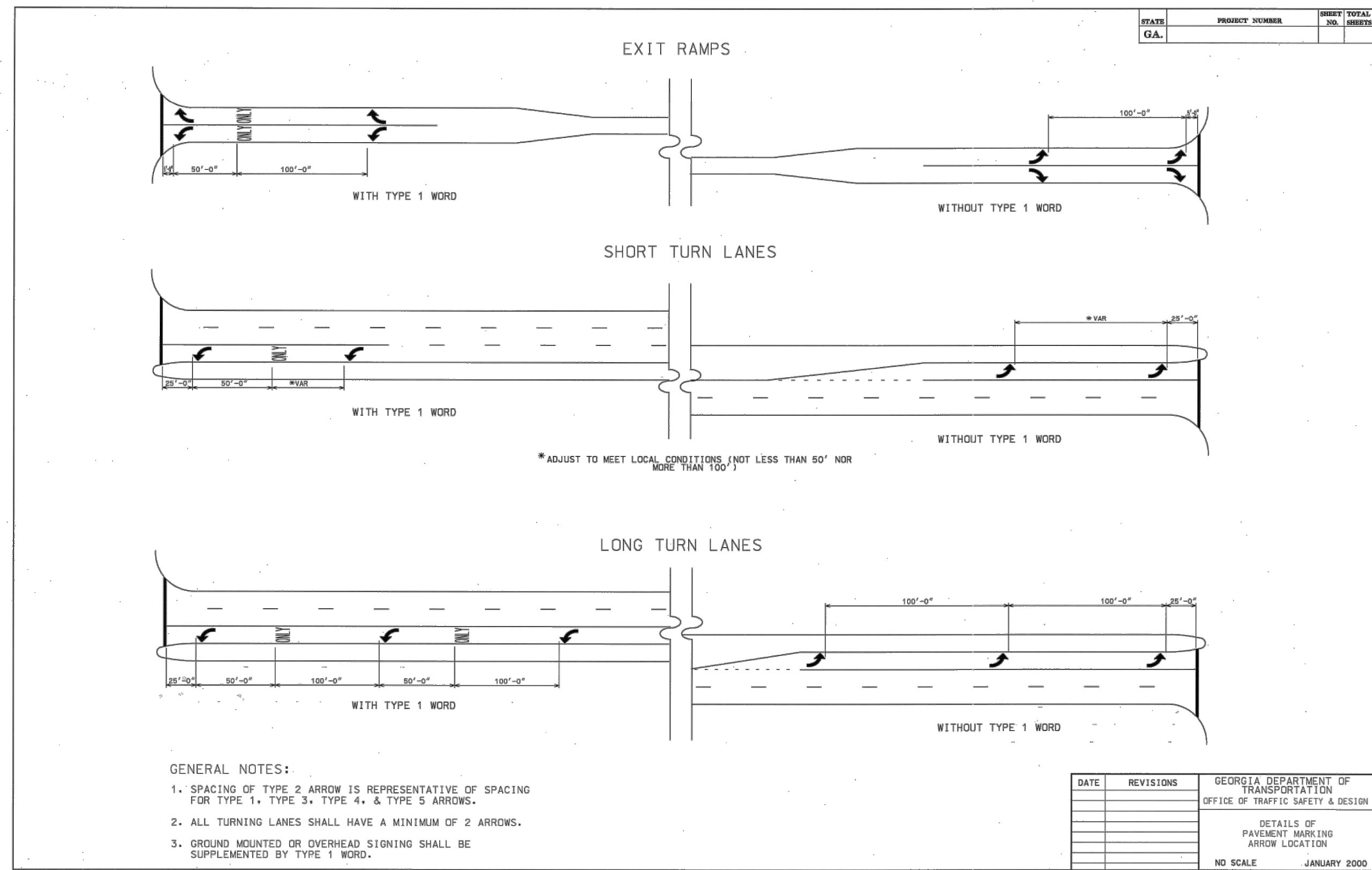
24 HOUR CONTACT
-

LL DIST PARCEL ID #
GMD221 B06029B

DWN BY FAC CKD BY CAO DATE
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5001

Contact 811 before you dig.



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

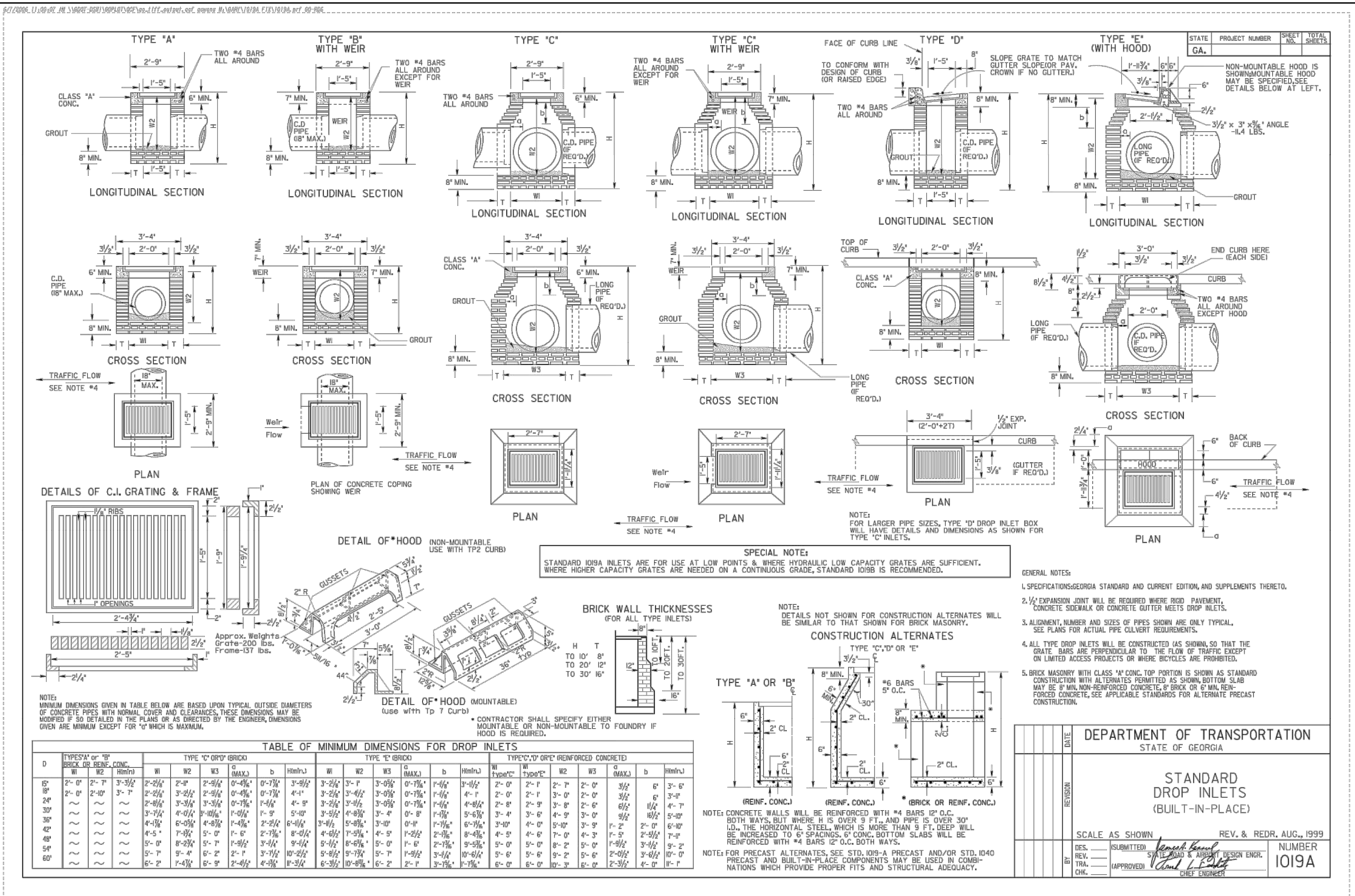
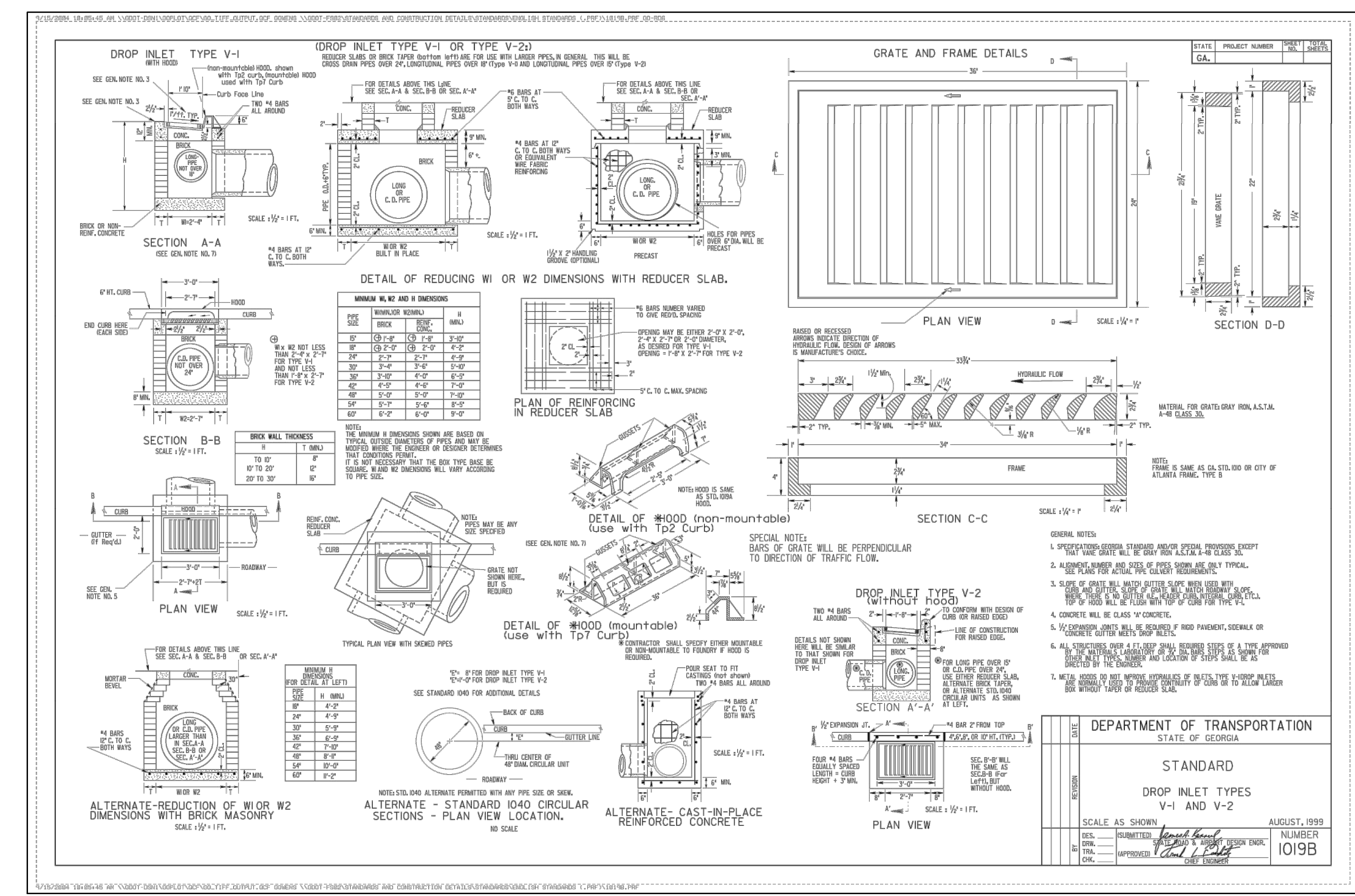
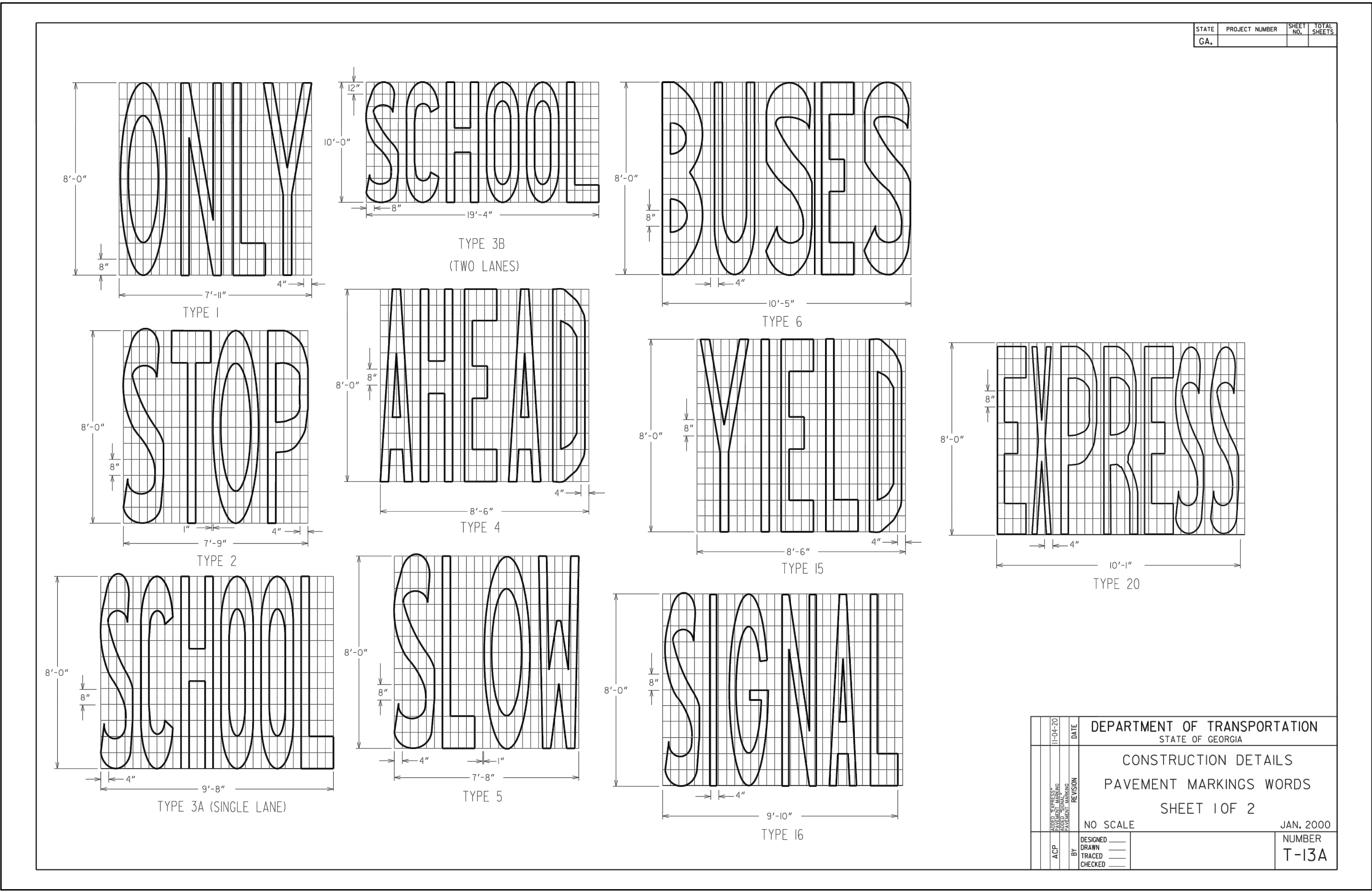
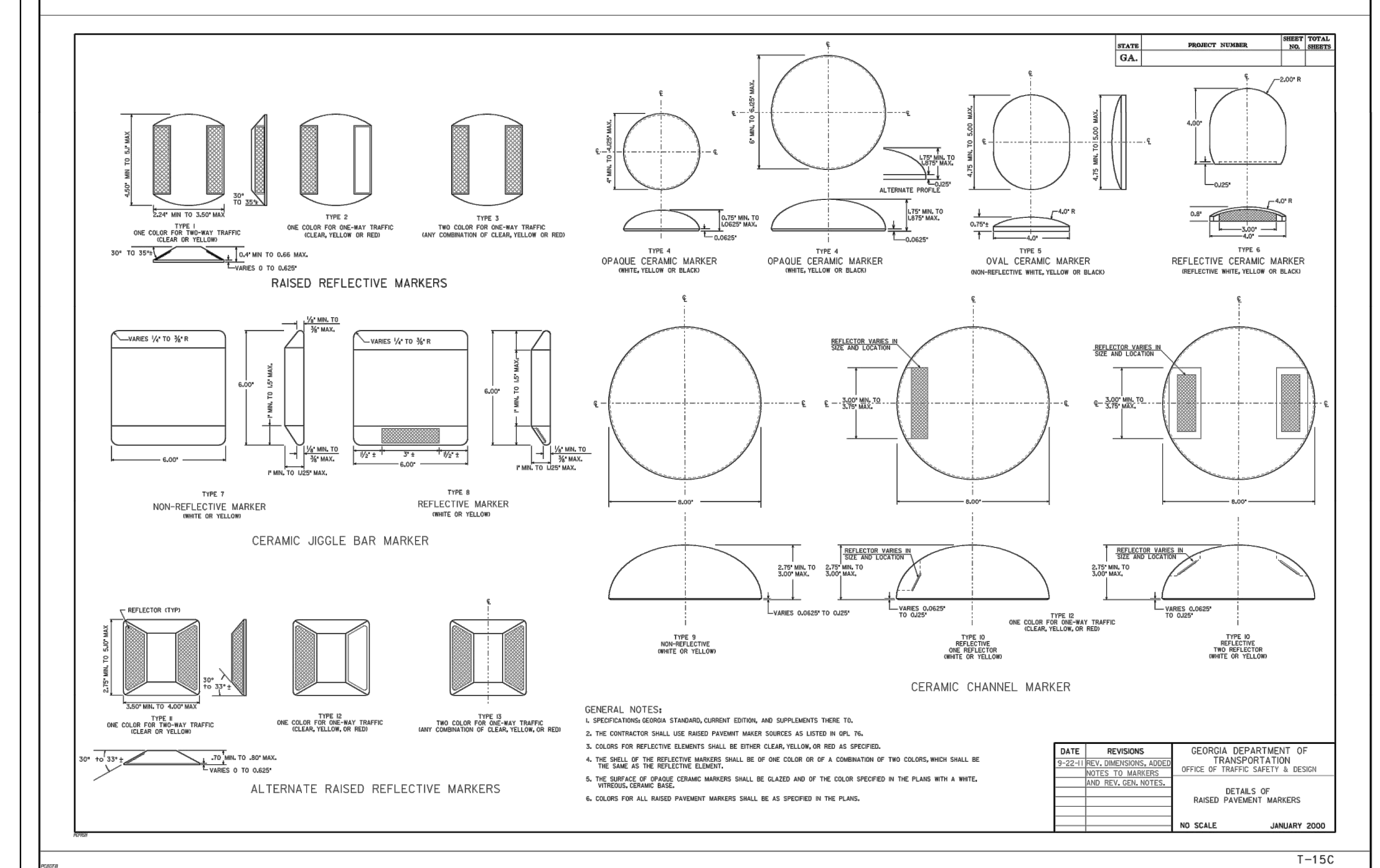
24 HOUR CONTACT
-

LL DIST PARCEL ID #
GMD221 B06029B

DWN BY CKD BY DATE
FAC CAO 04/21/2022

A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5002



REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

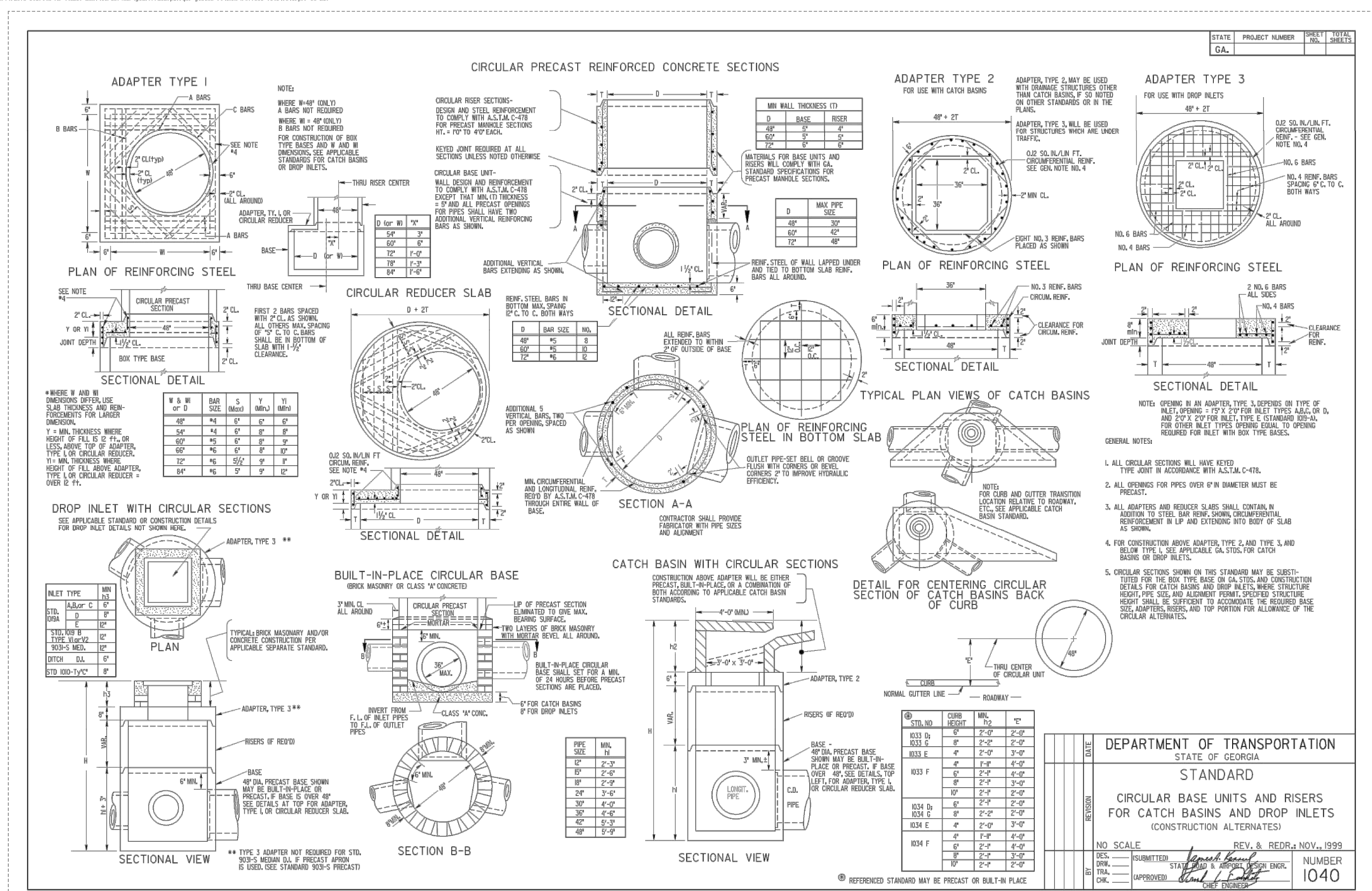
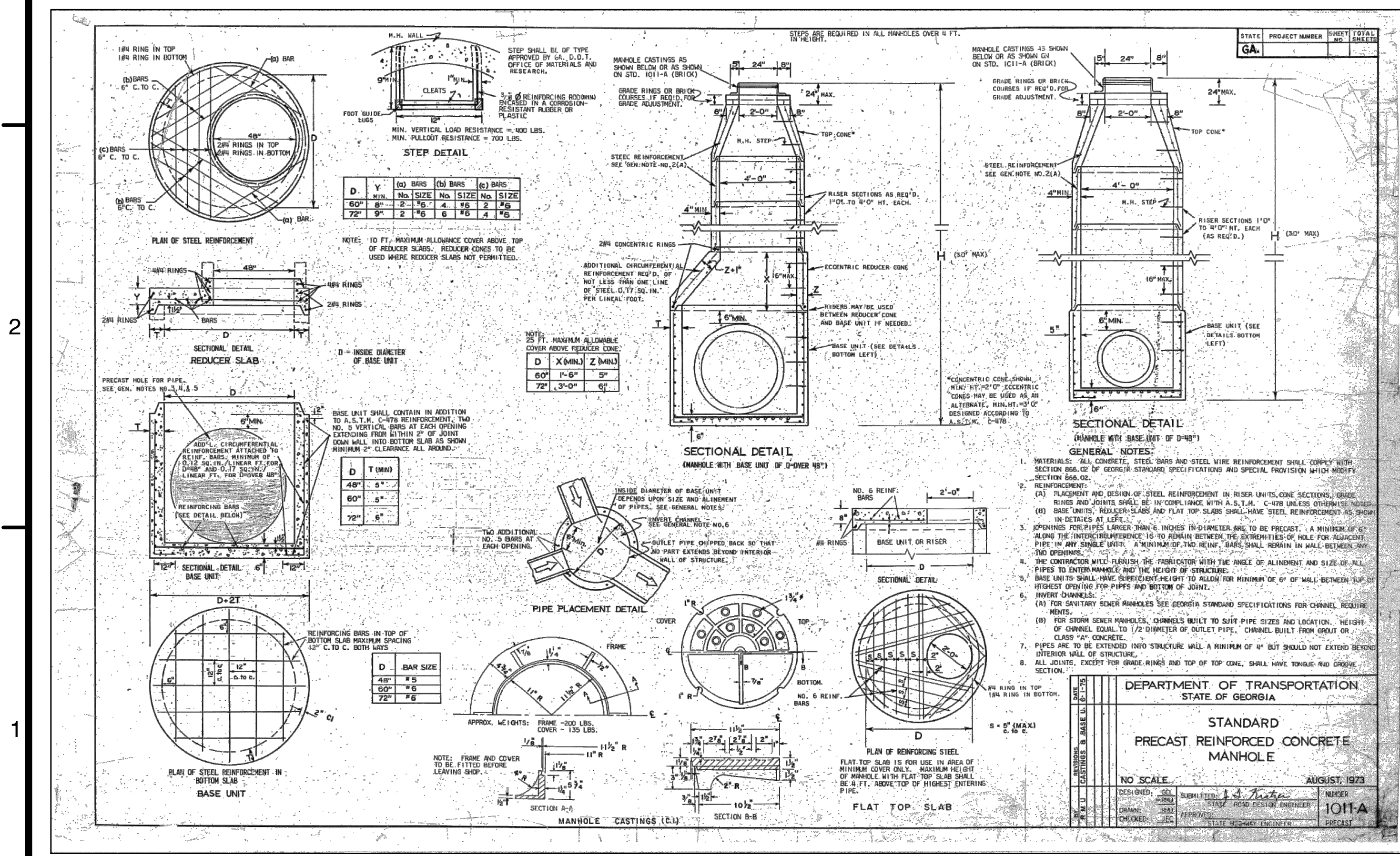
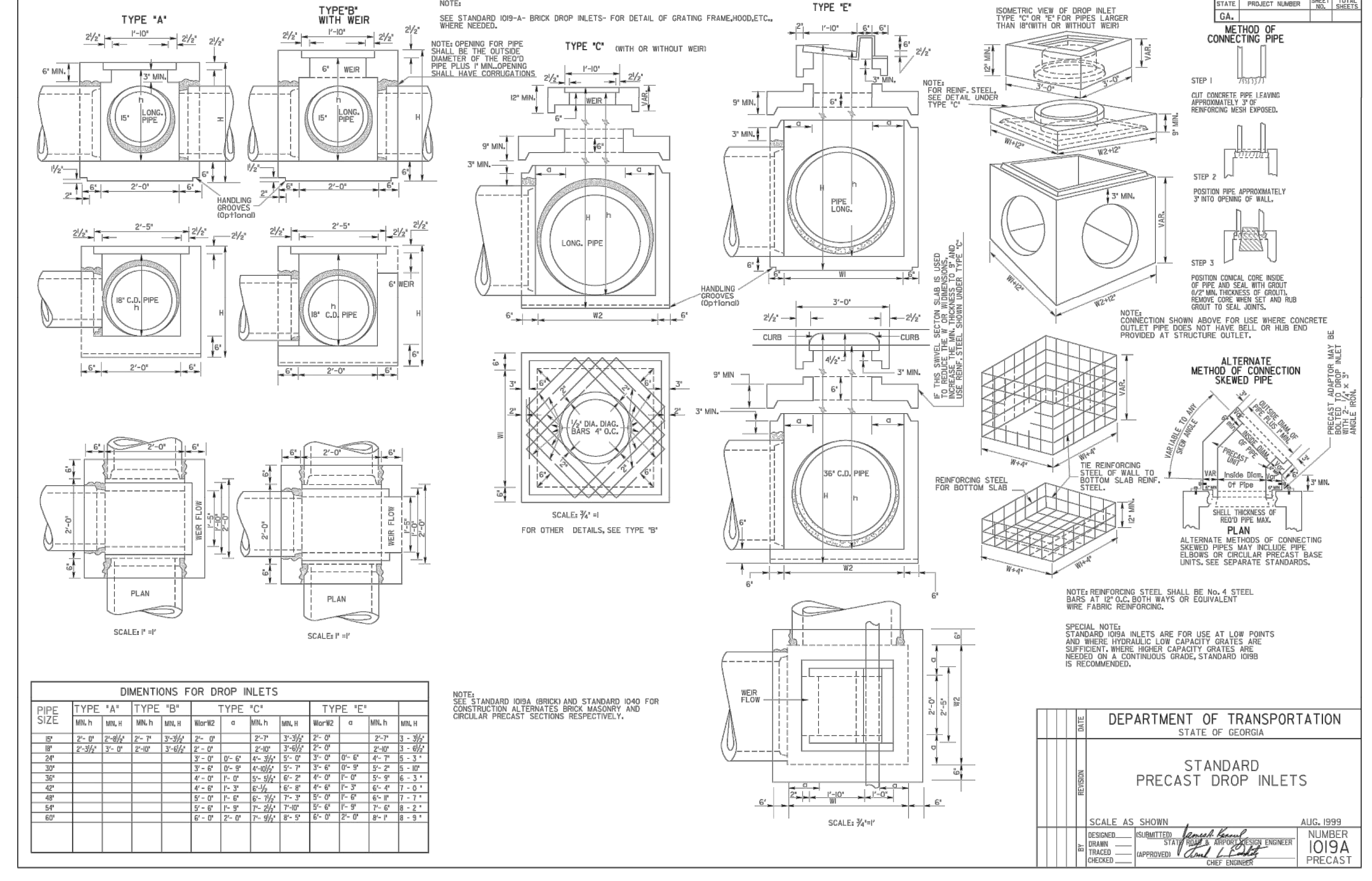
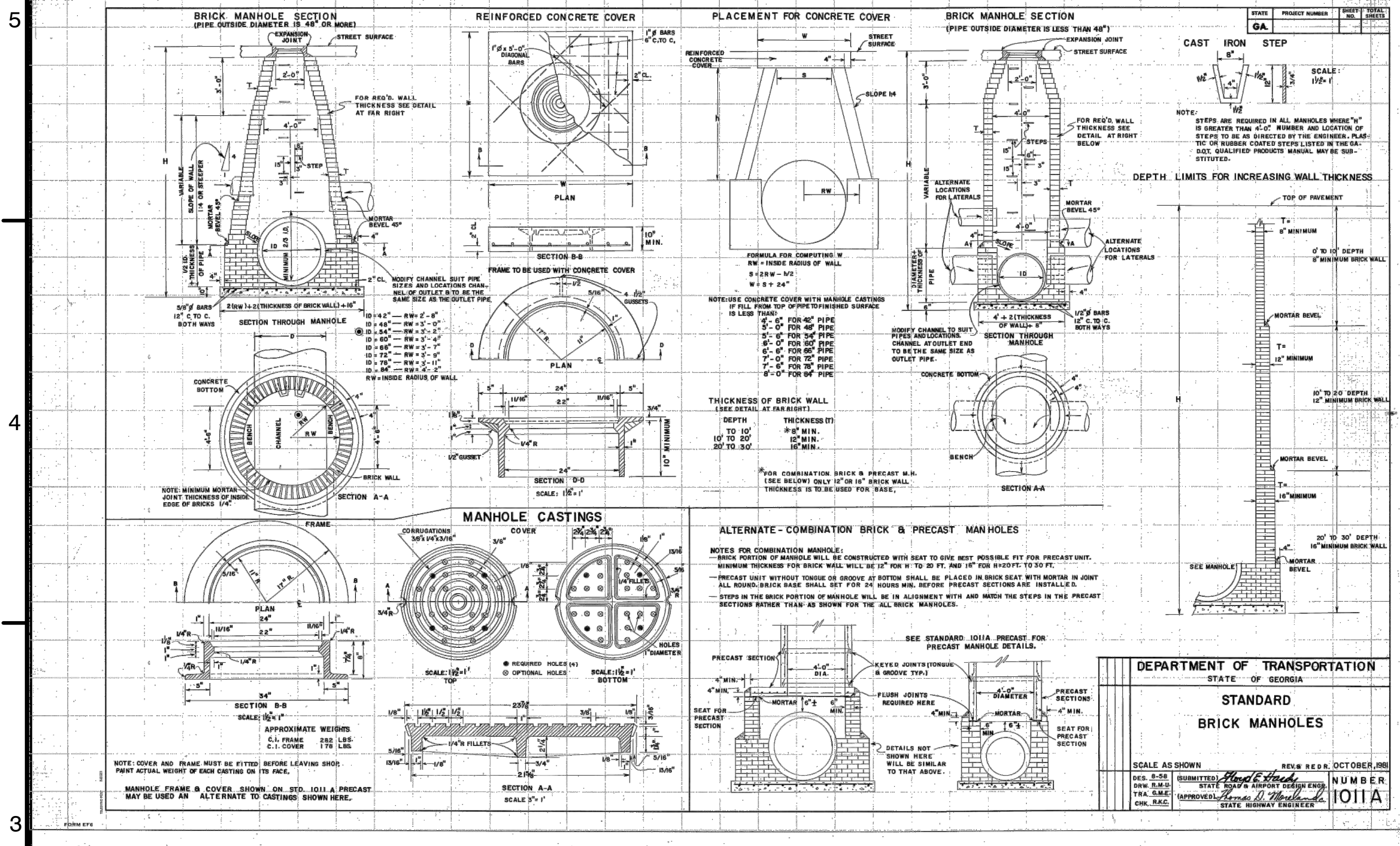
NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOULT AND DRIVEWAY DESIGN
7575 SR115/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY CKD BY DATE
FAC CAO 04/21/2022
A&R PROJECT #
21-229
SHEET IDENTIFICATION
CT-5003



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
770294952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDAABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

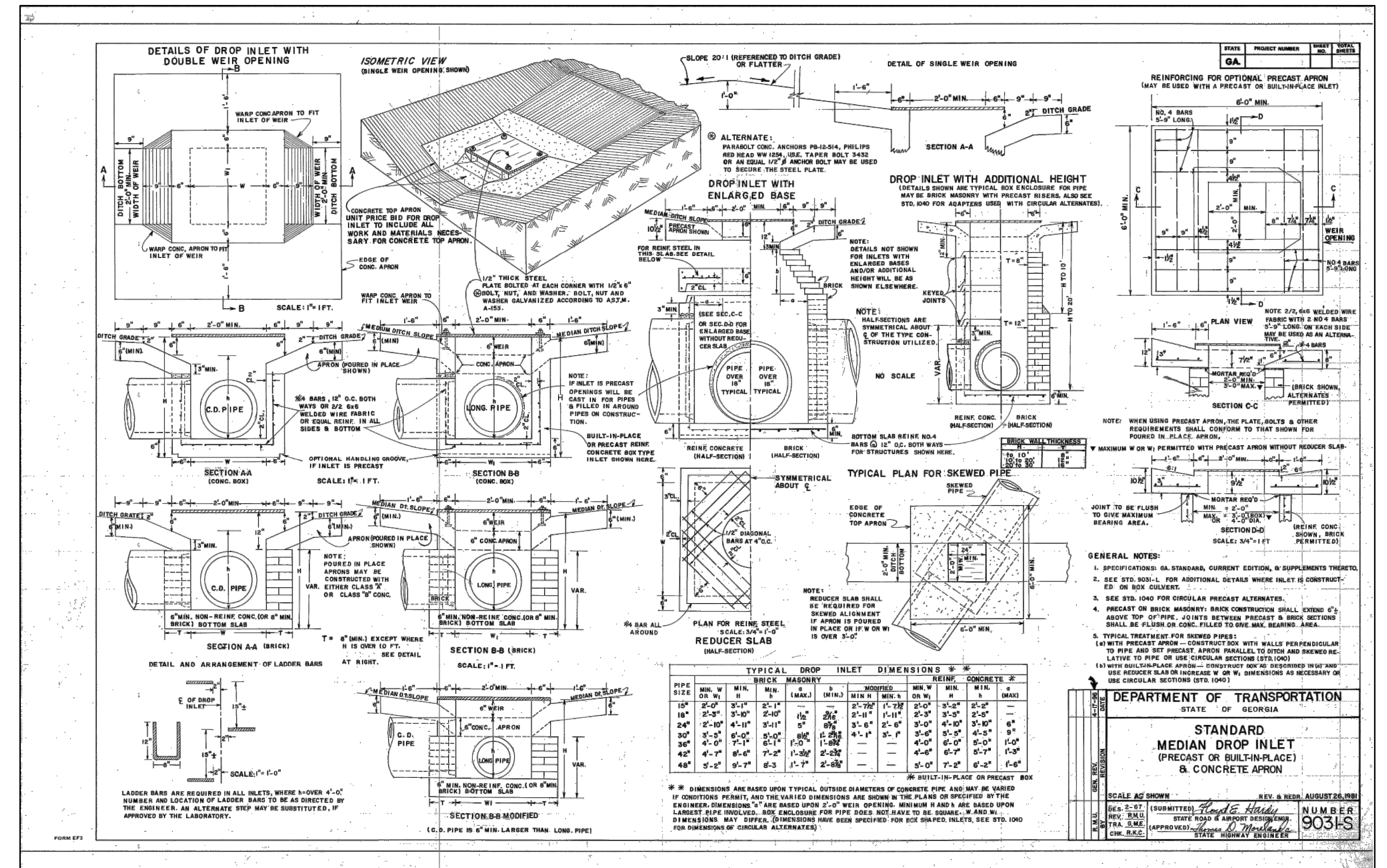
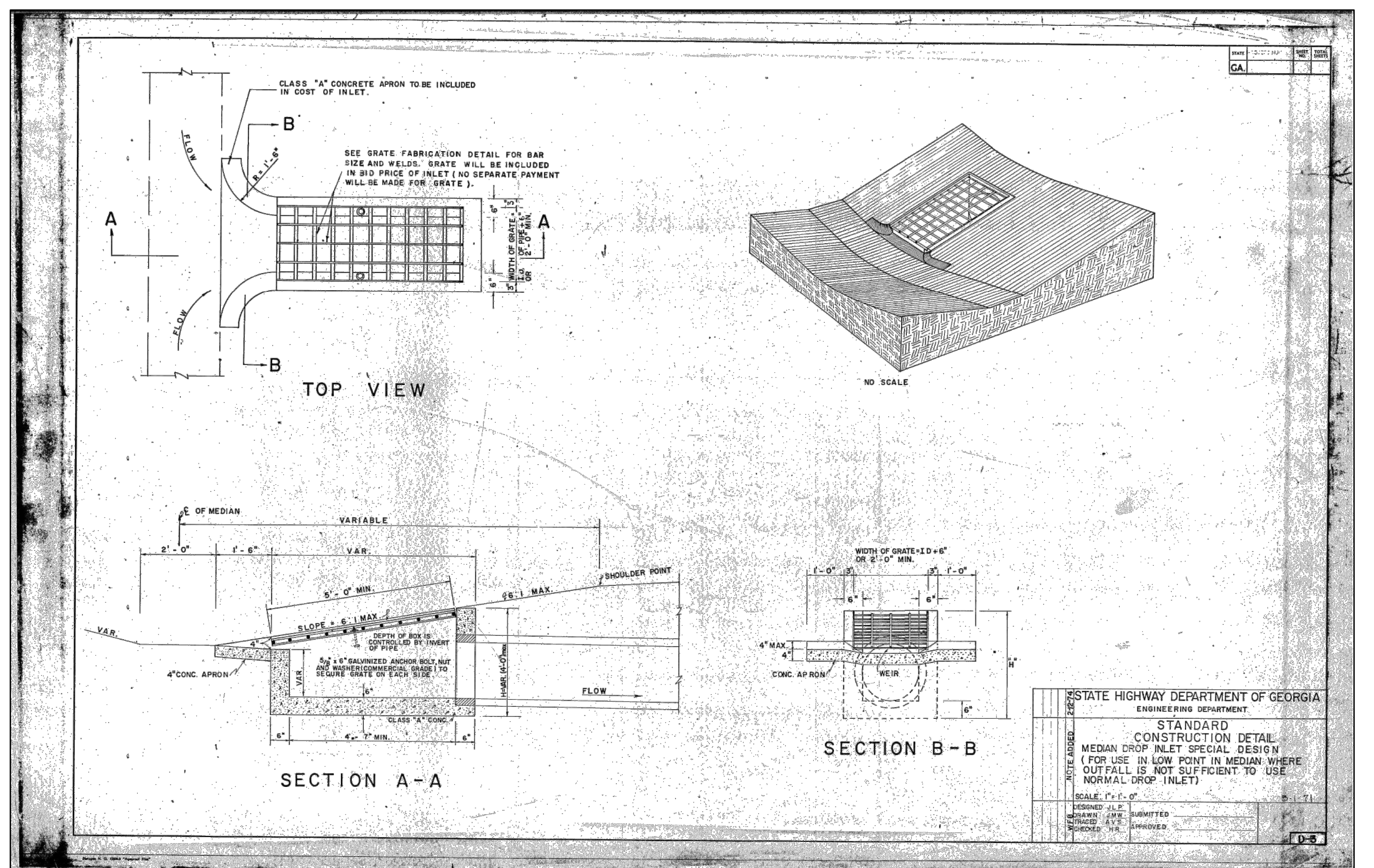
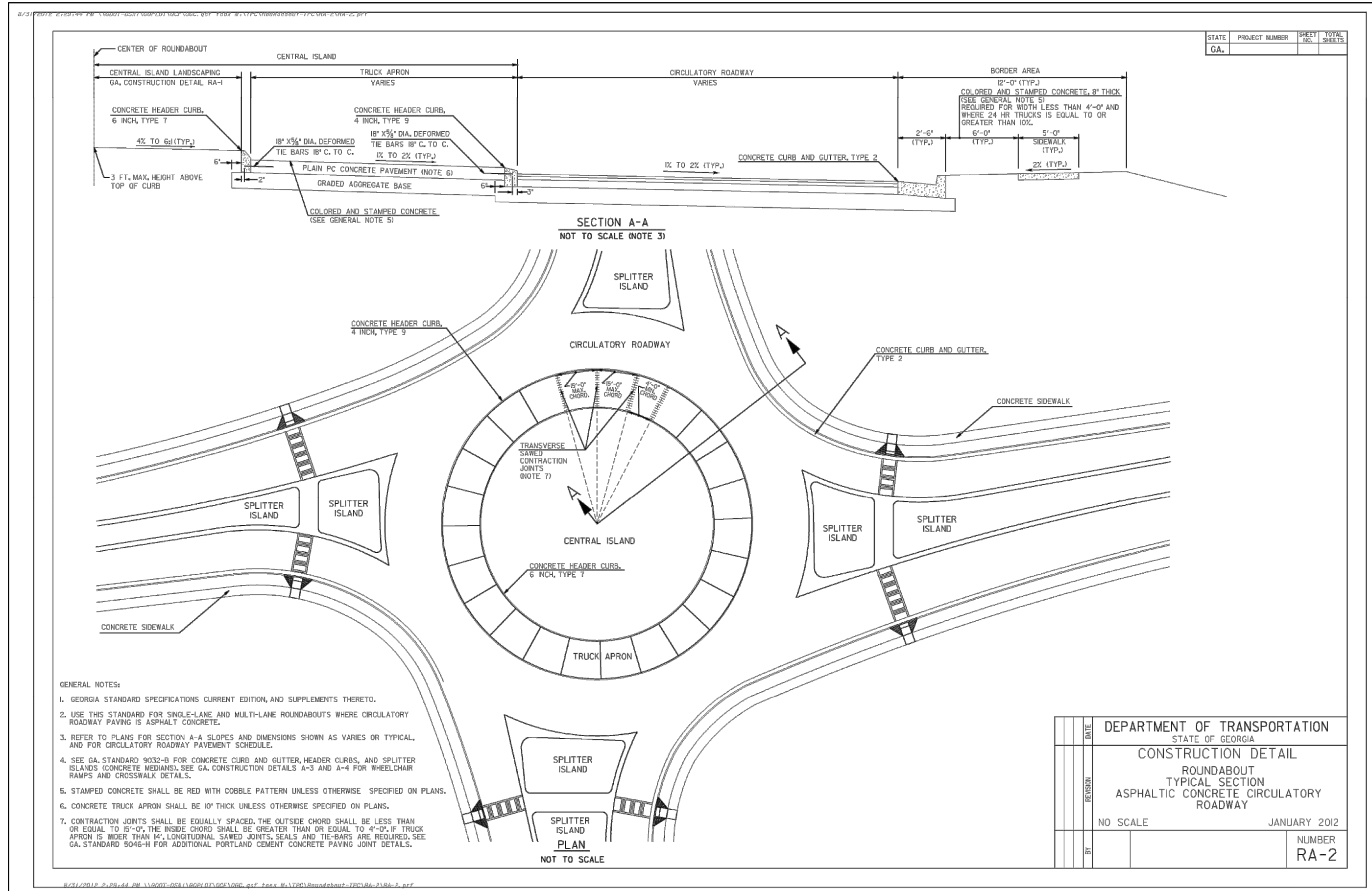
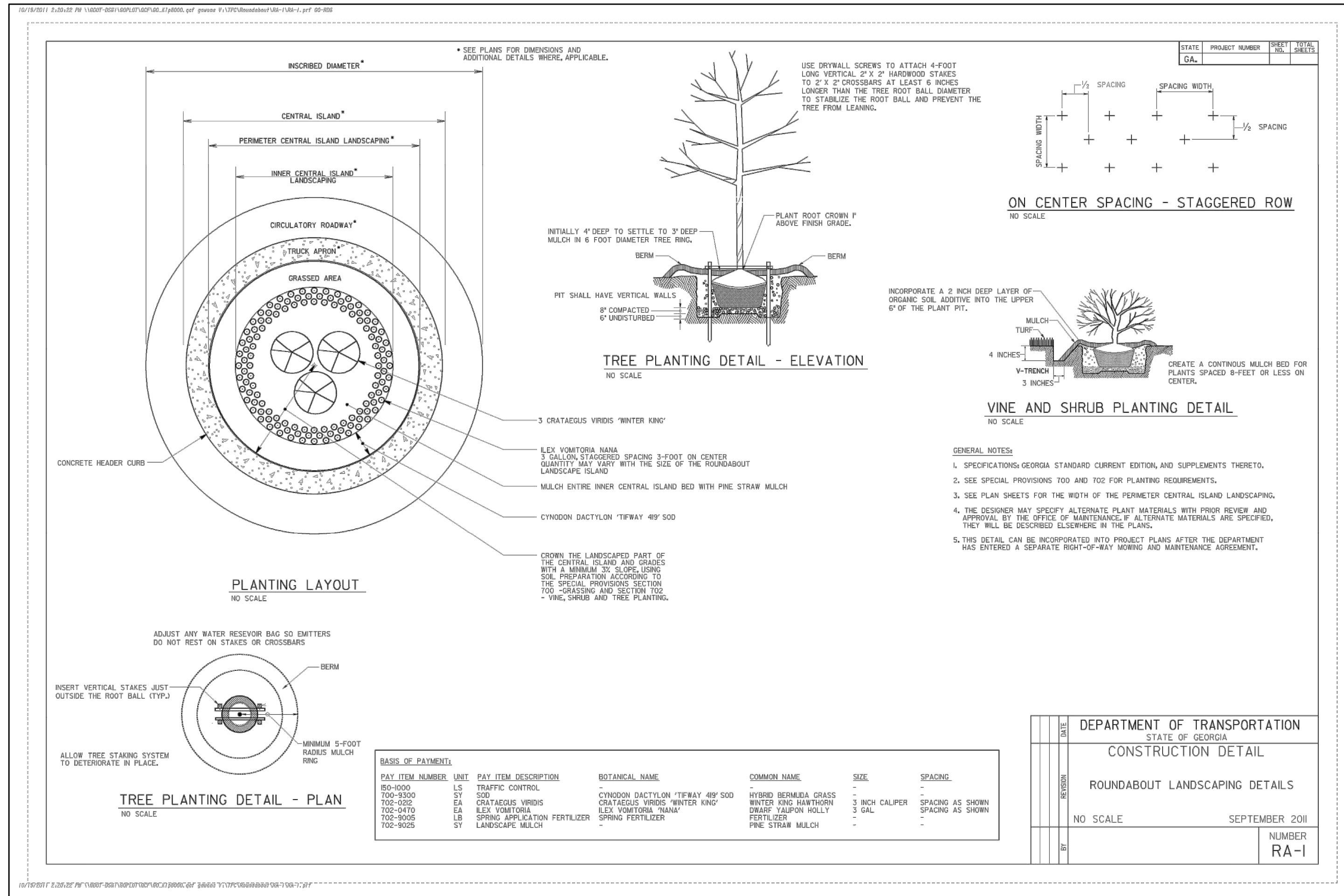
24 HOUR CONTACT

LL	DIST	PARCEL ID #
---	GMD221	B06029B

DWN BY: [Signature] CKD BY: [Signature] DATE: 04/21/2022
FAC: [Signature] CAO: [Signature]

A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5004



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

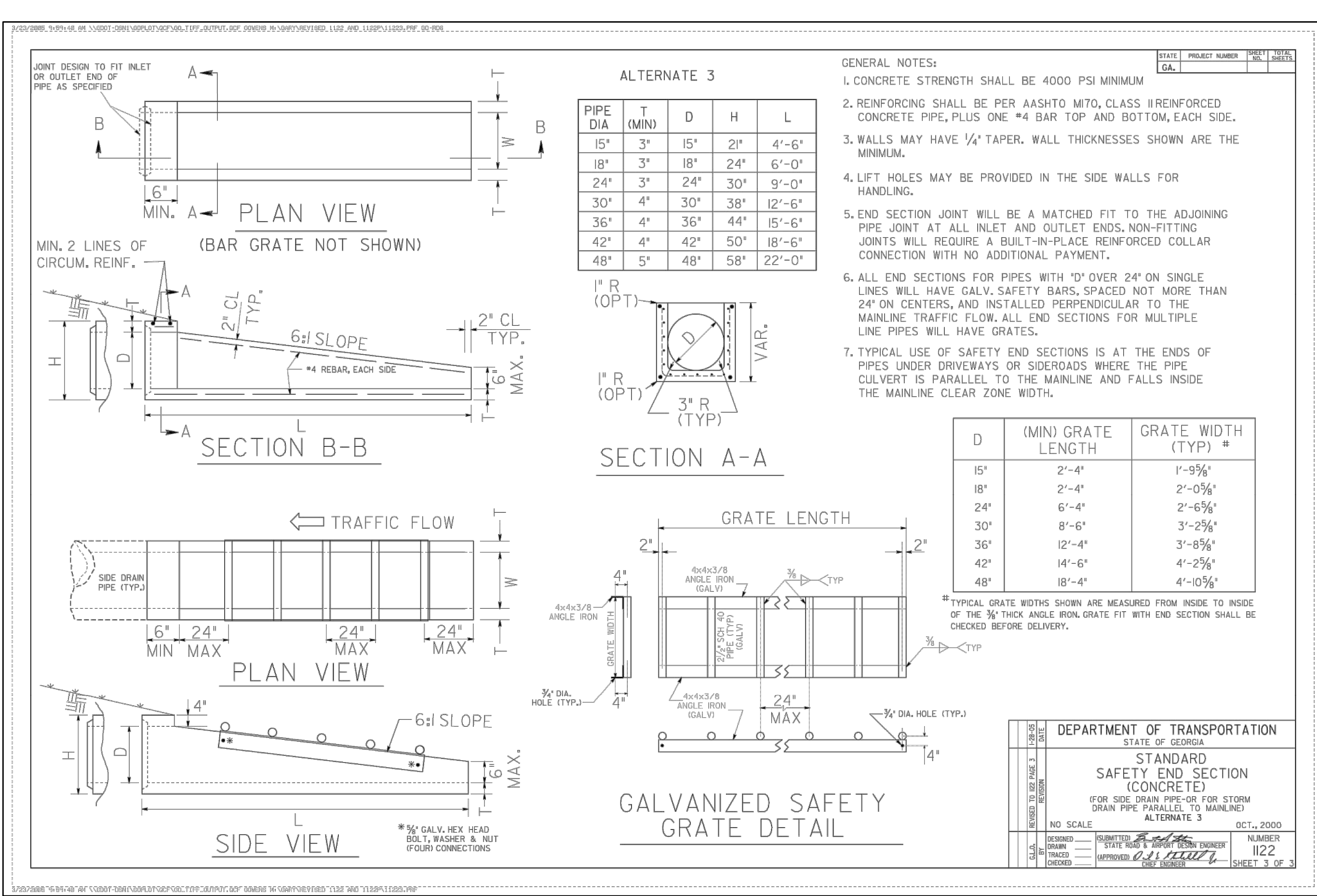
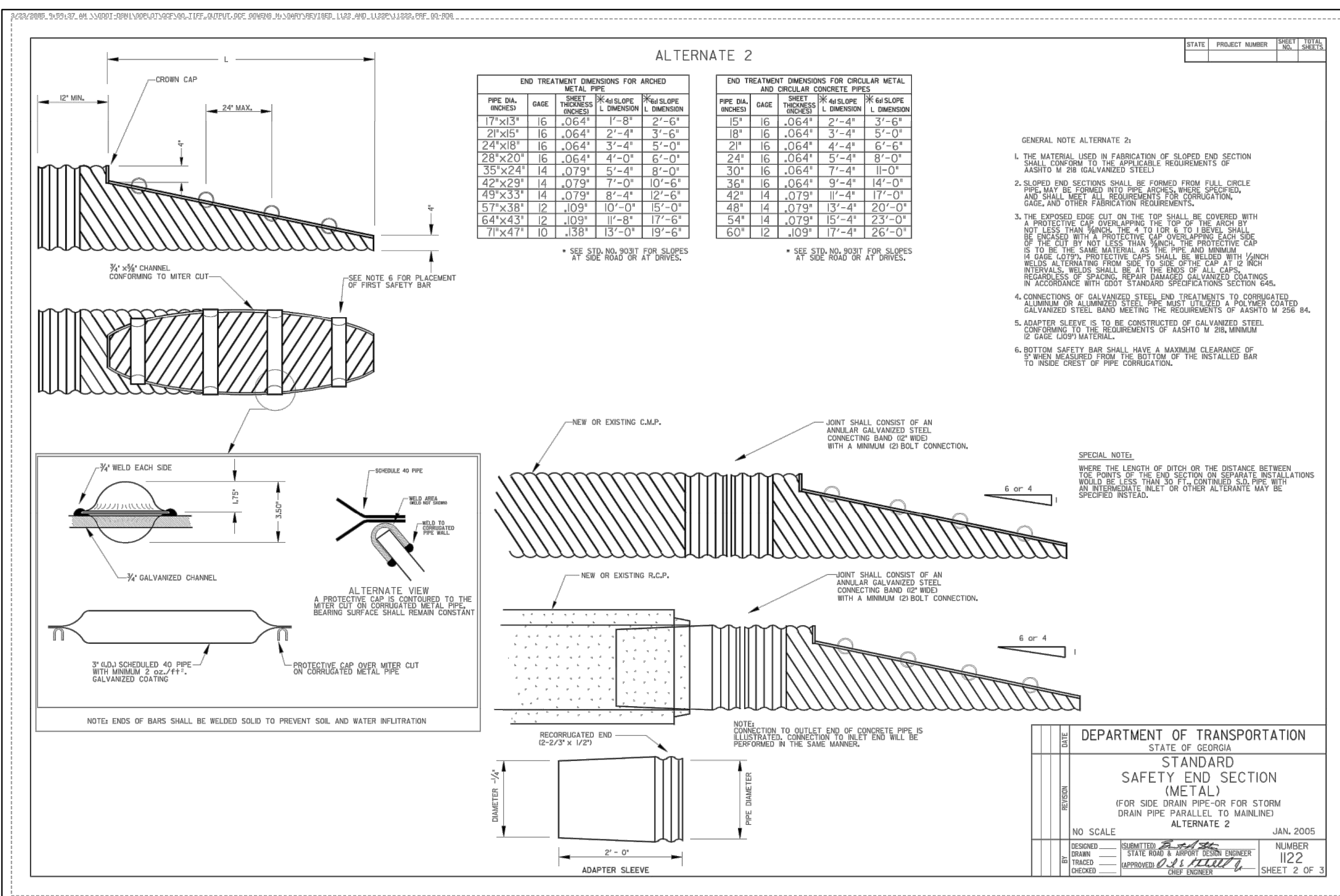
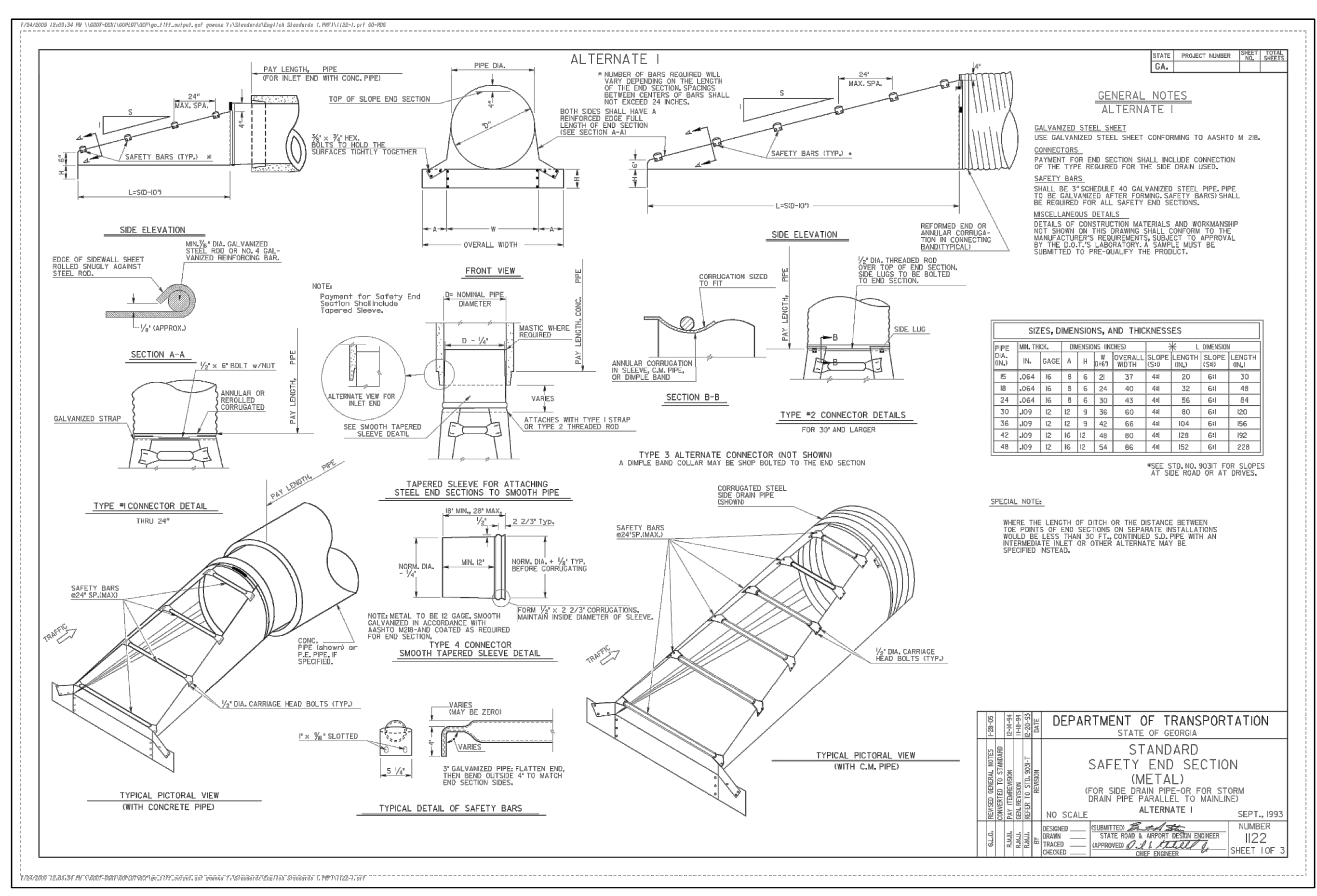
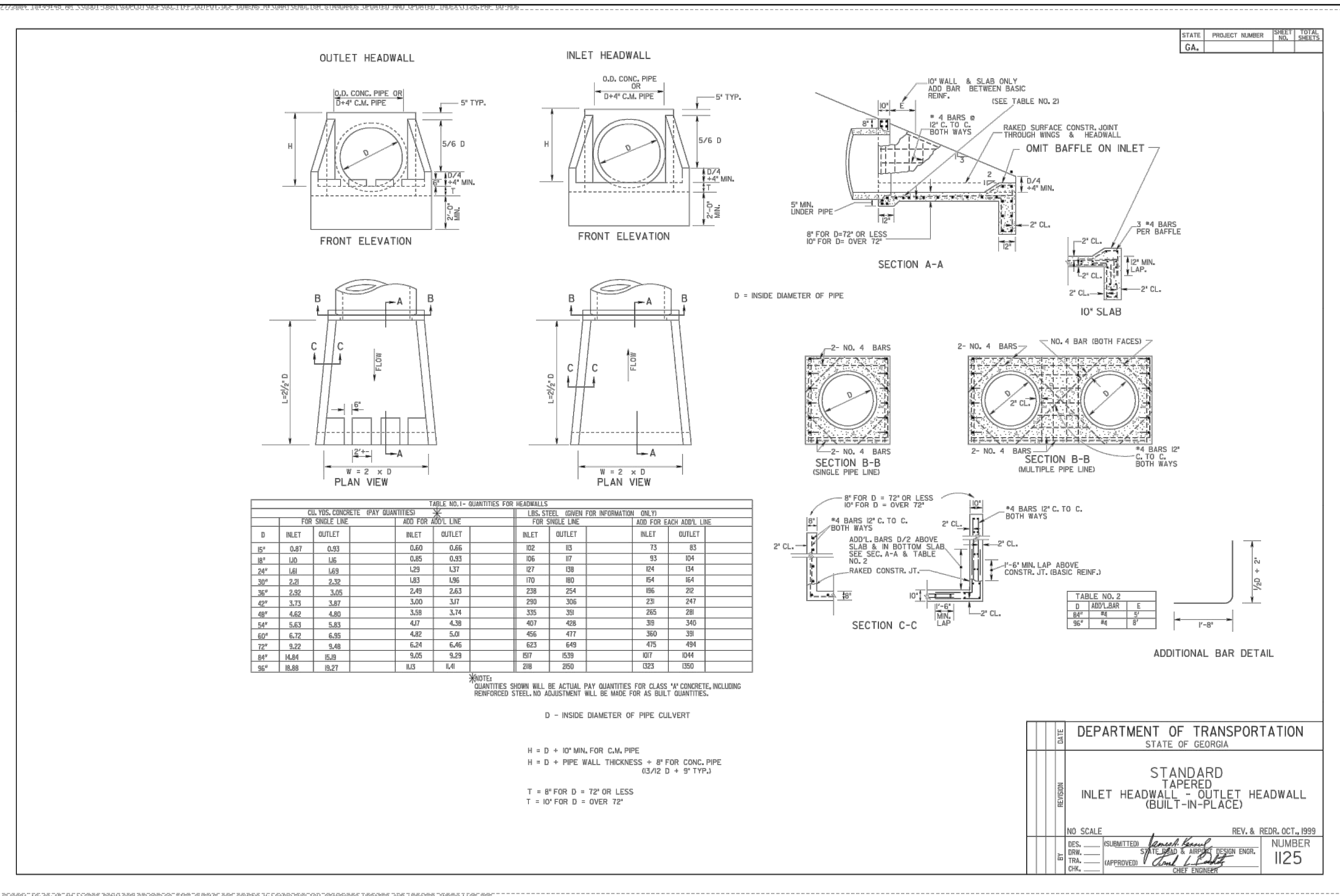
PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT151/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
LL DIST PARCEL ID #
GMD21 B06029B
DWN BY CKD BY DATE
FAC CAO 04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5006



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

DETAILS #####

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDAABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

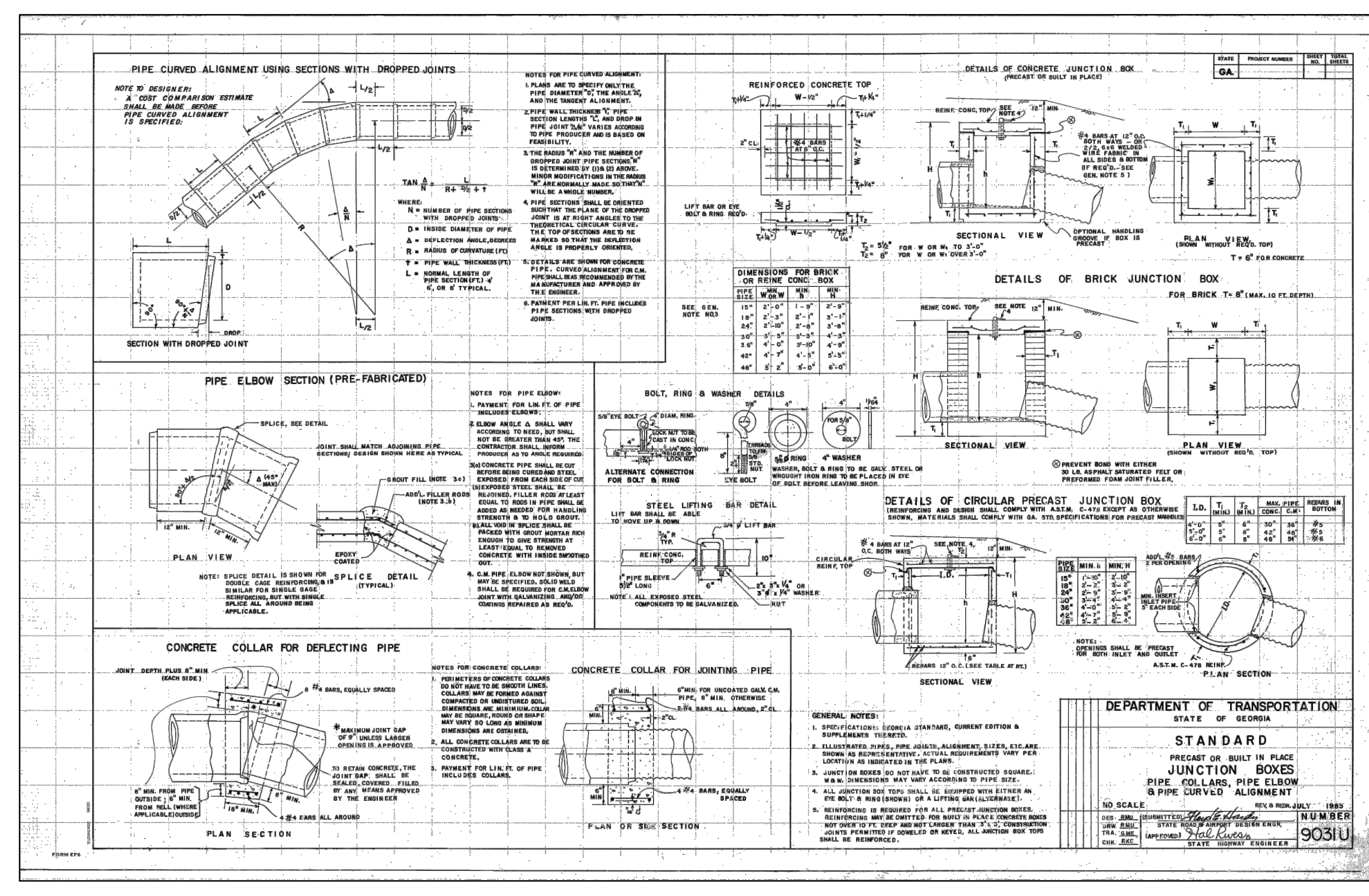
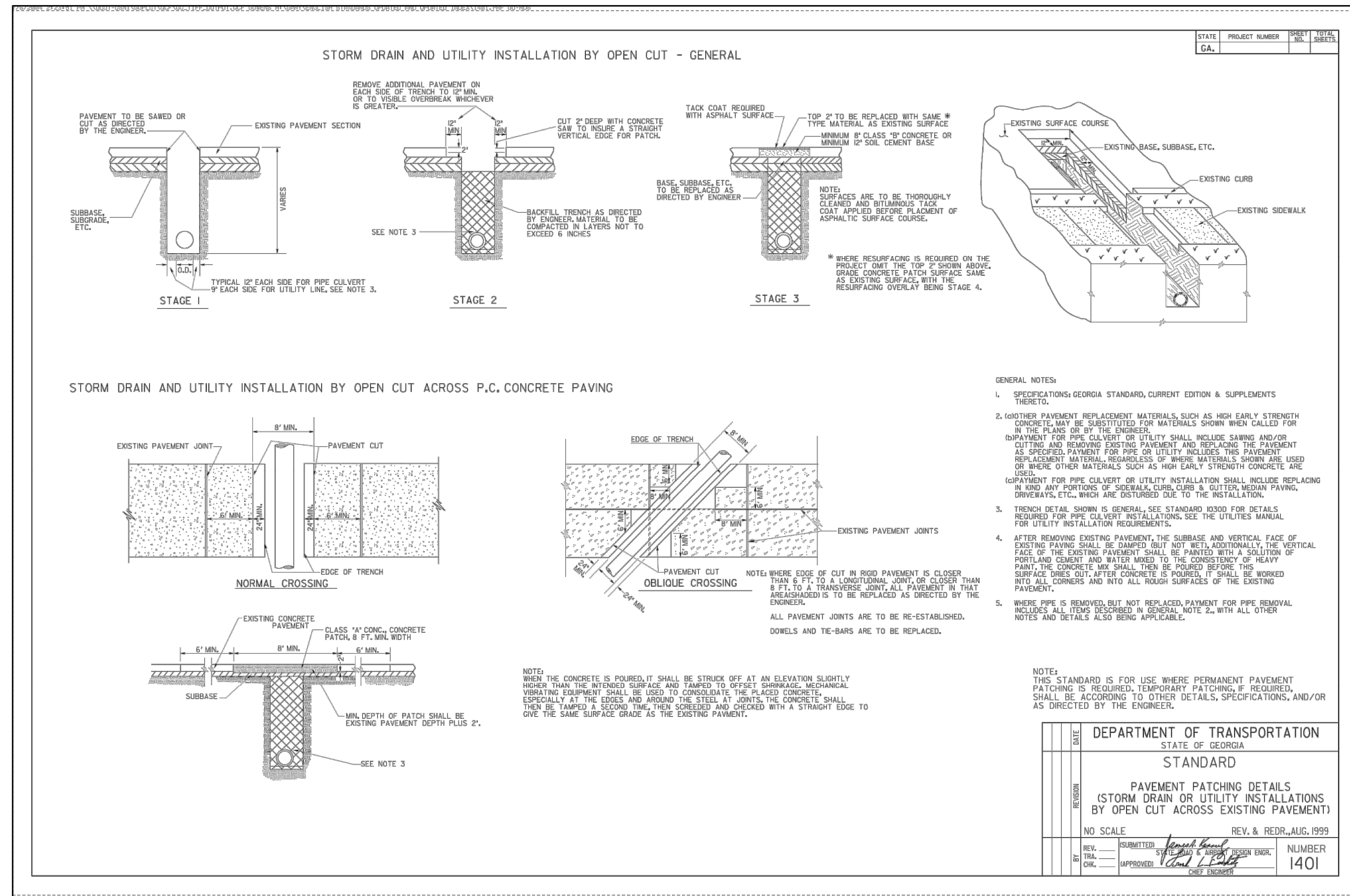
24 HOUR CONTACT
-

LL DIST PARCEL ID #
GMD221 B06029B

DWN BY FAC CKD BY DATE
CAO 04/21/2022

A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5007



REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR OCONEE COUNTY

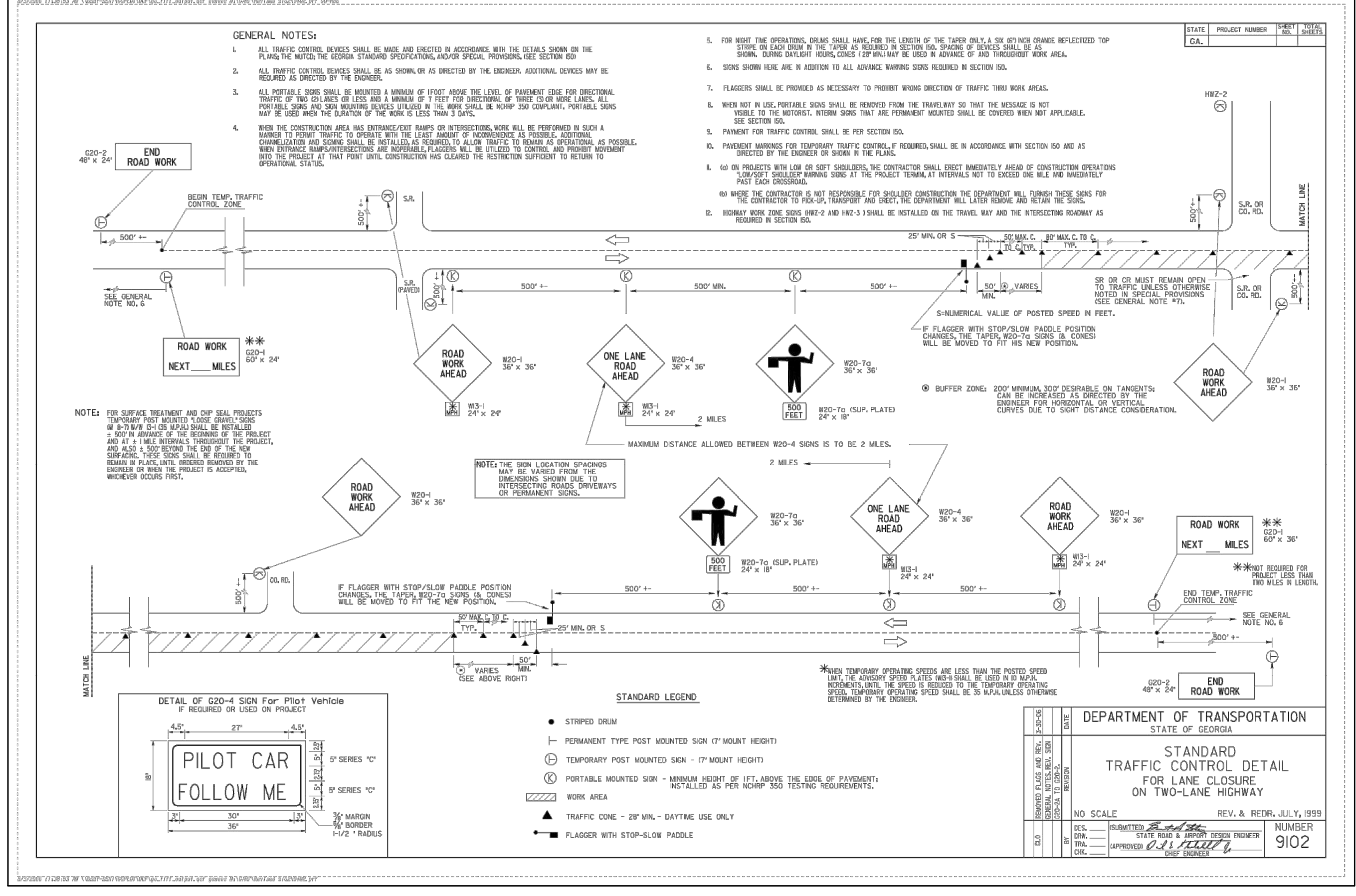
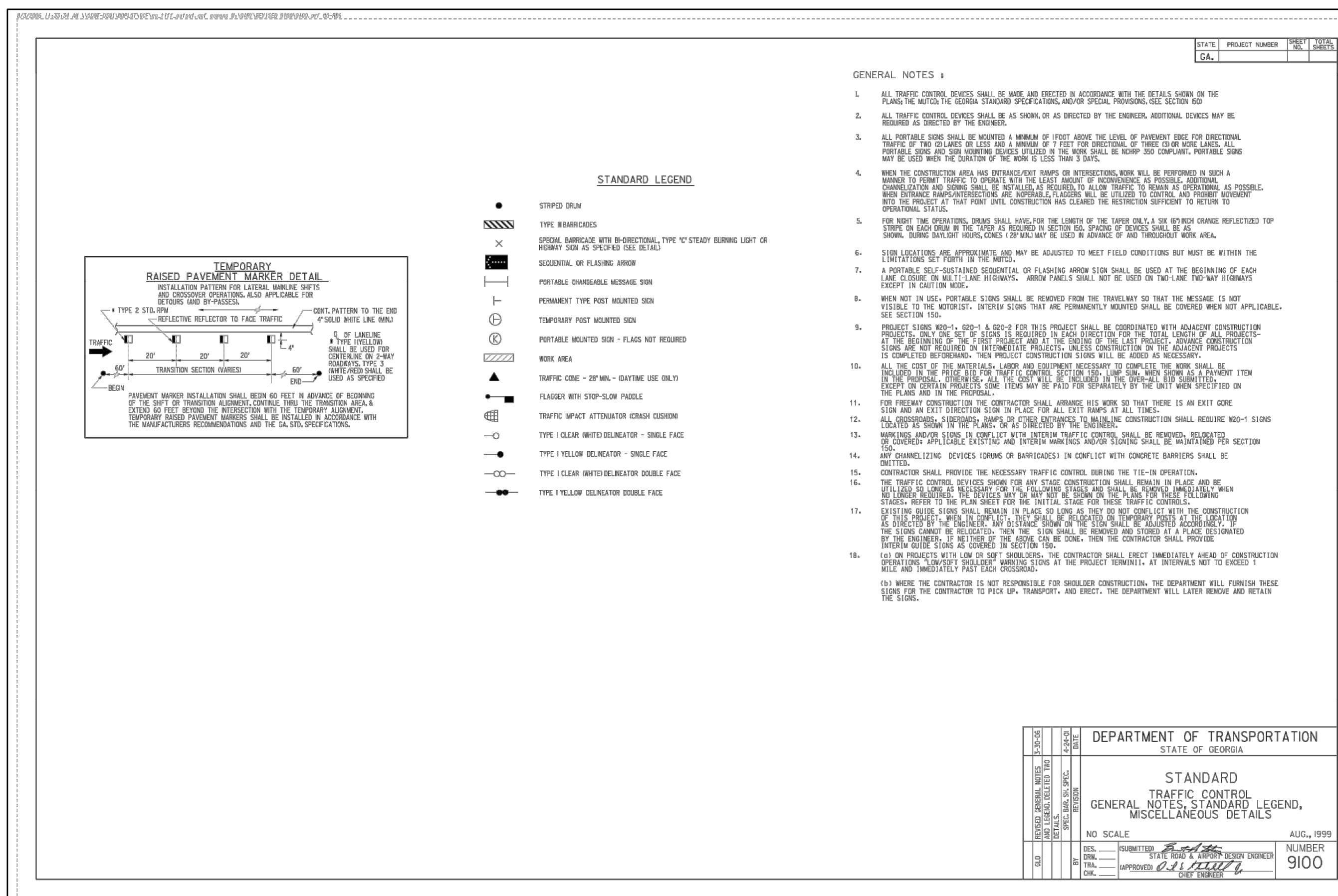
7635 MACON HWY, WATKINSVILLE, GA 30677 770249952

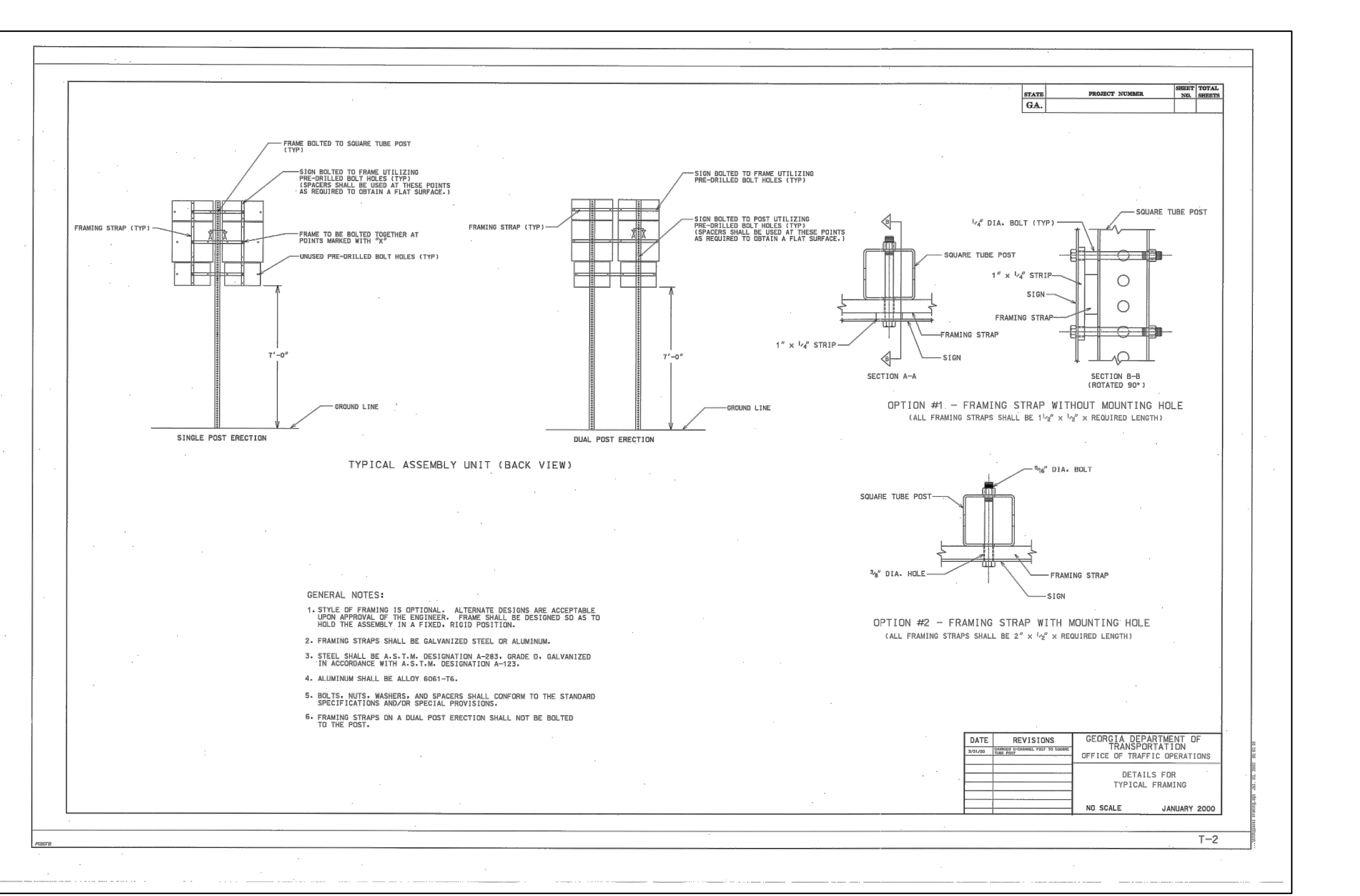
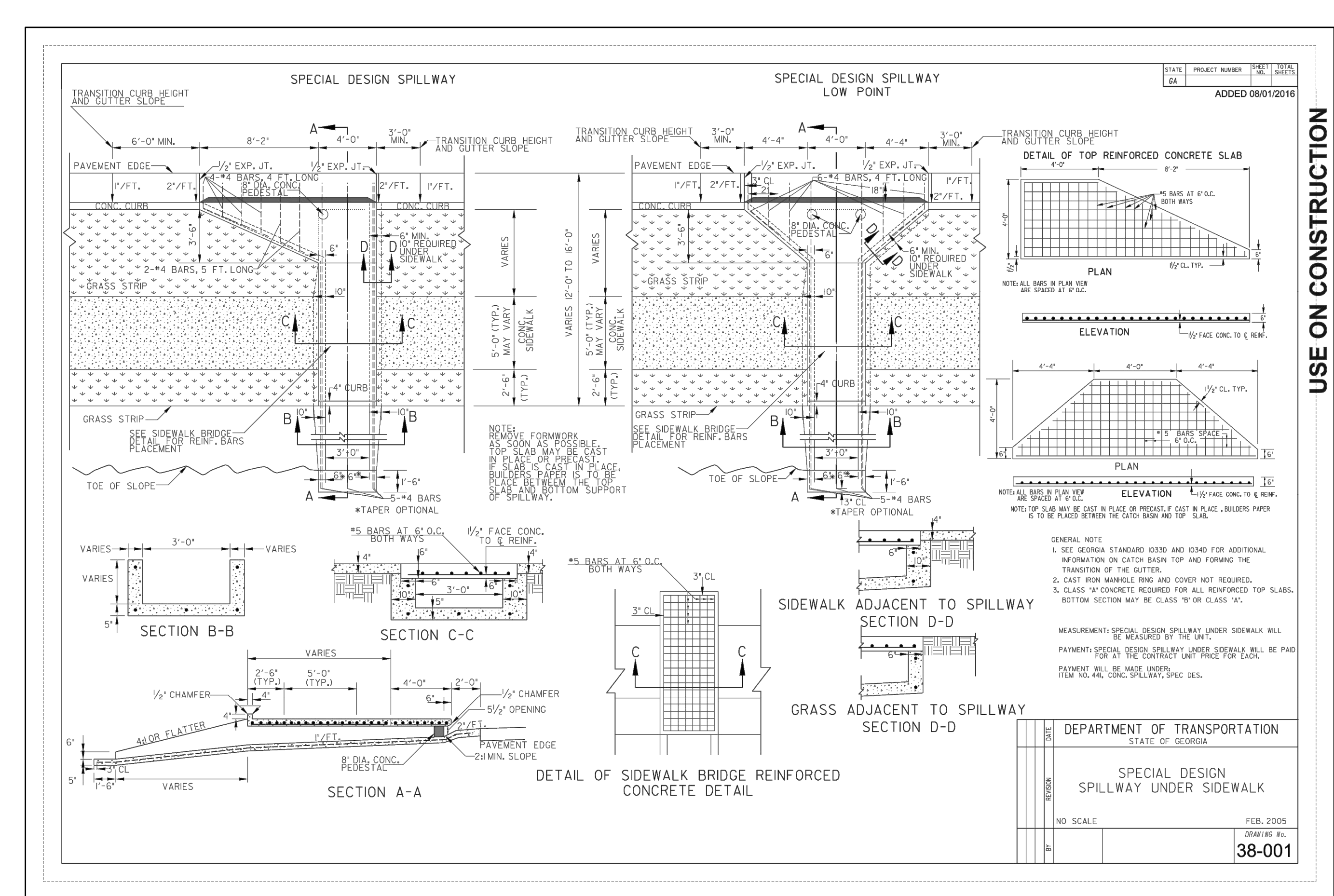
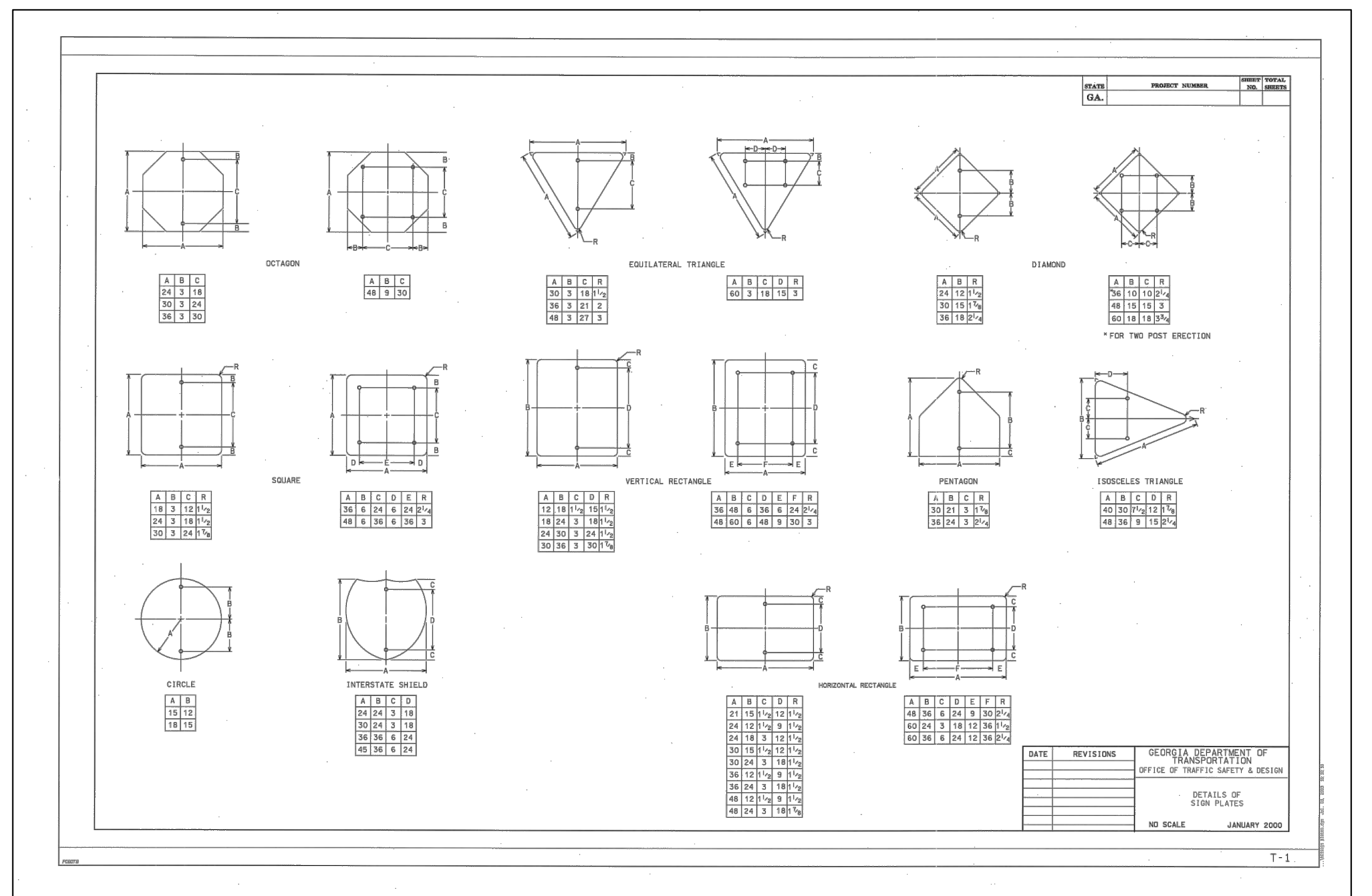
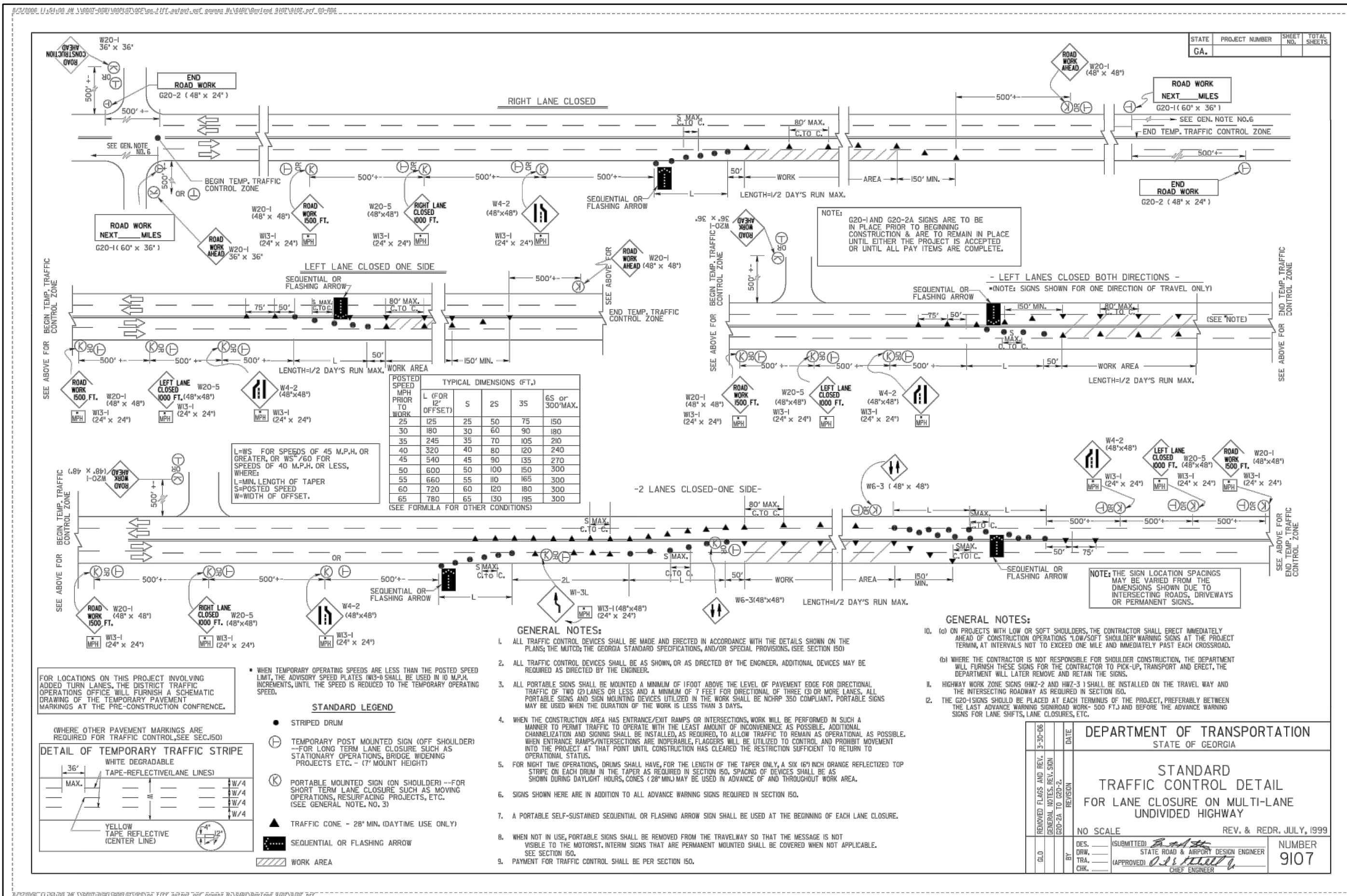
OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SHRIMP (US128)(BUS) US441 (BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT

LL DIST PARCEL ID # 00000000000000000000
GMD221 B06029B
DWN BY FAC CKD BY CAO DATE 04/21/2022
A&R PROJECT # 21-229

SHEET IDENTIFICATION **CT-5008**





REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

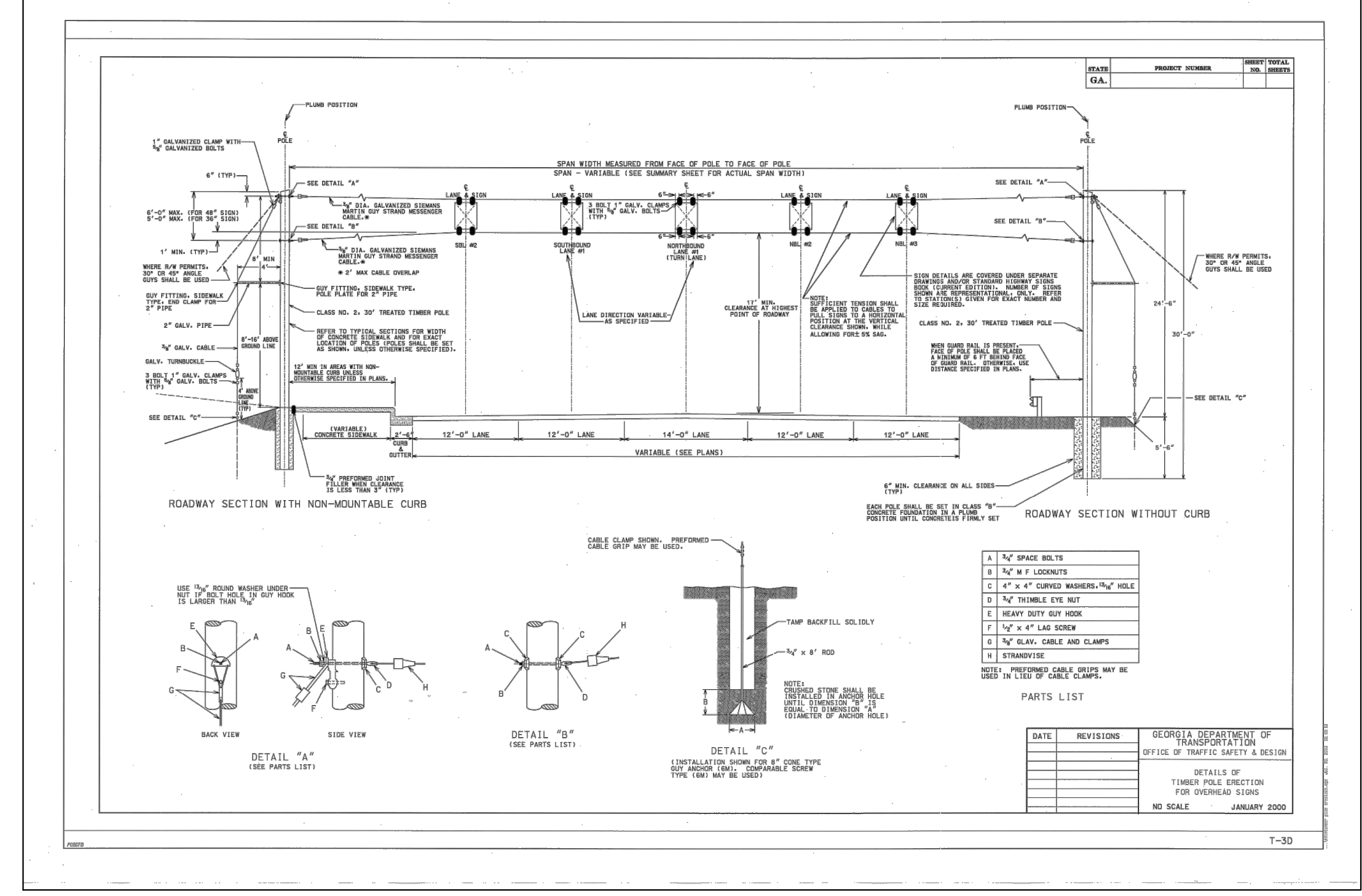
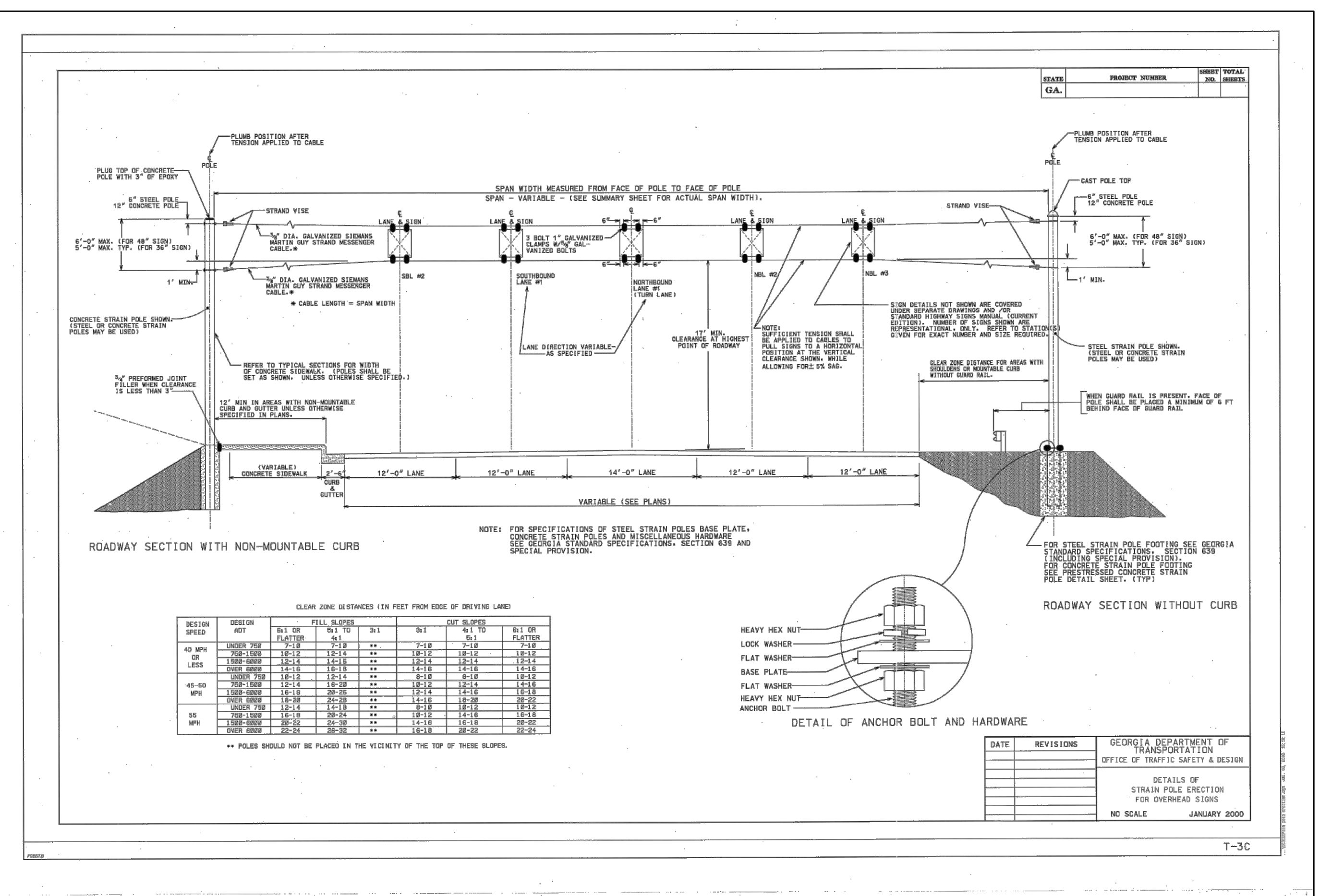
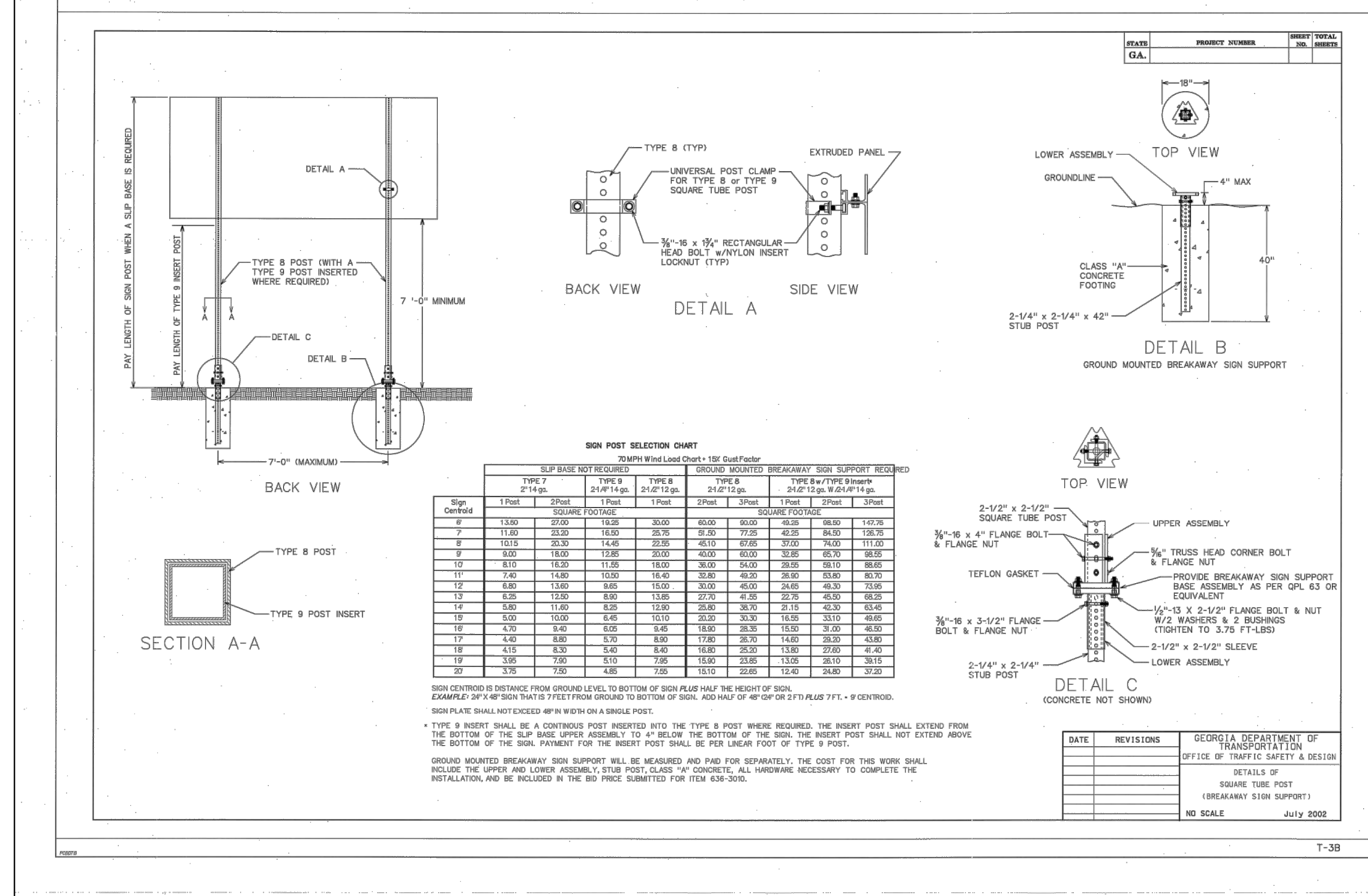
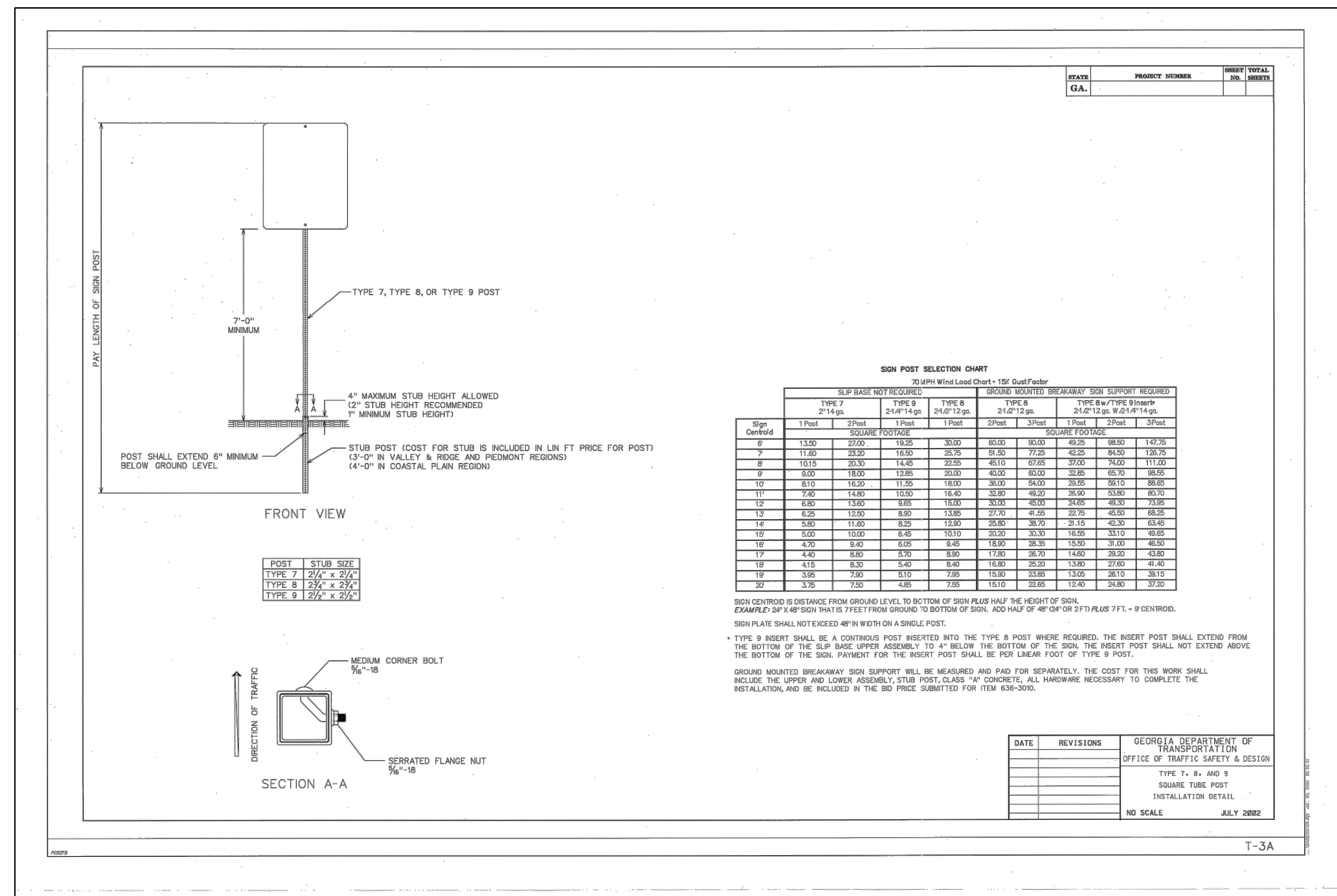
PREPARED FOR
OCONEE COUNTY

7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY CKD BY DATE
FAC CAO 04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5009



SEAL

REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

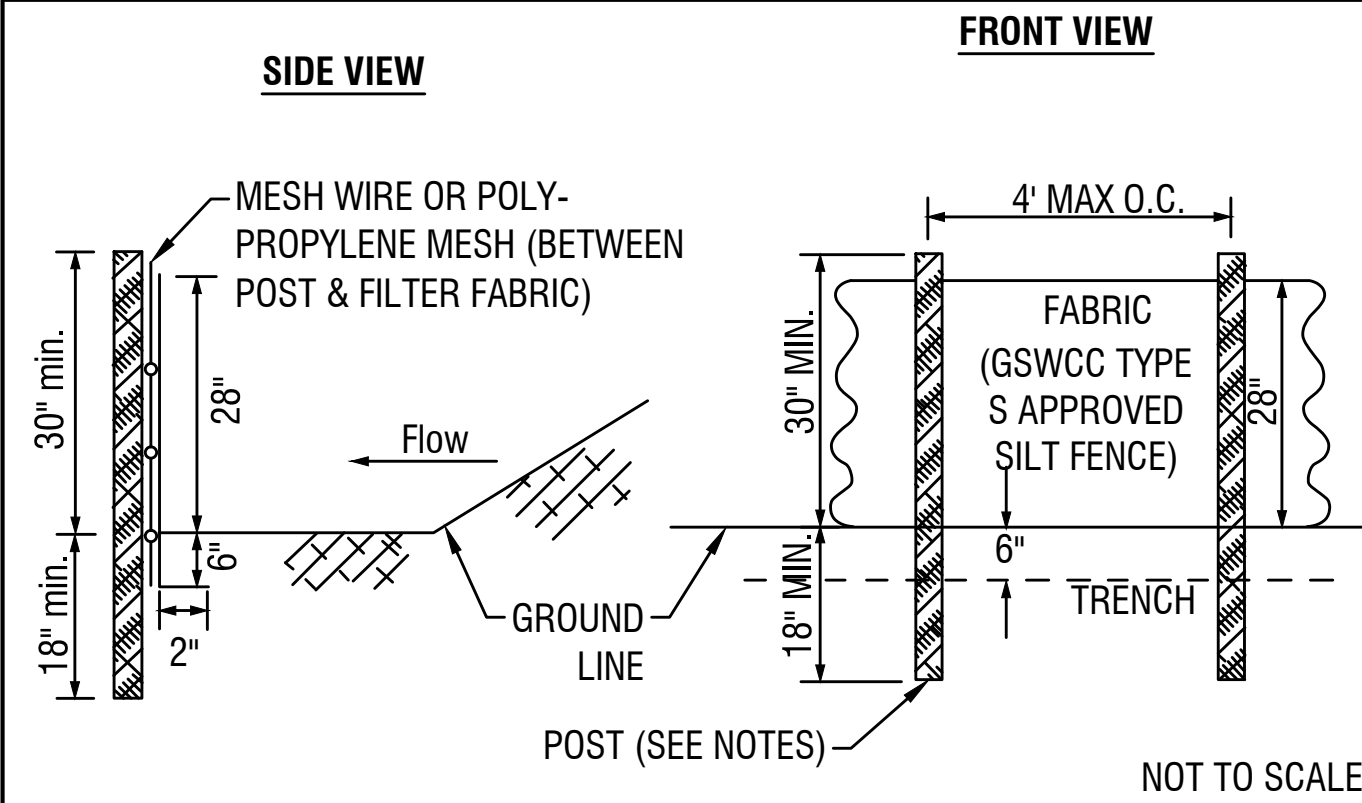
OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDBOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
LL DIST PARCEL ID #
GMD221 B06029B
DWN BY CKD BY DATE
FAC CAO 04/21/2022
A&R PROJECT #
21-229

SHEET IDENTIFICATION
CT-5010

Contact 811 before you dig.

SEDIMENT BARRIER FOR SENSITIVE AREAS (Sd1-S)



INSTALLATION NOTES:

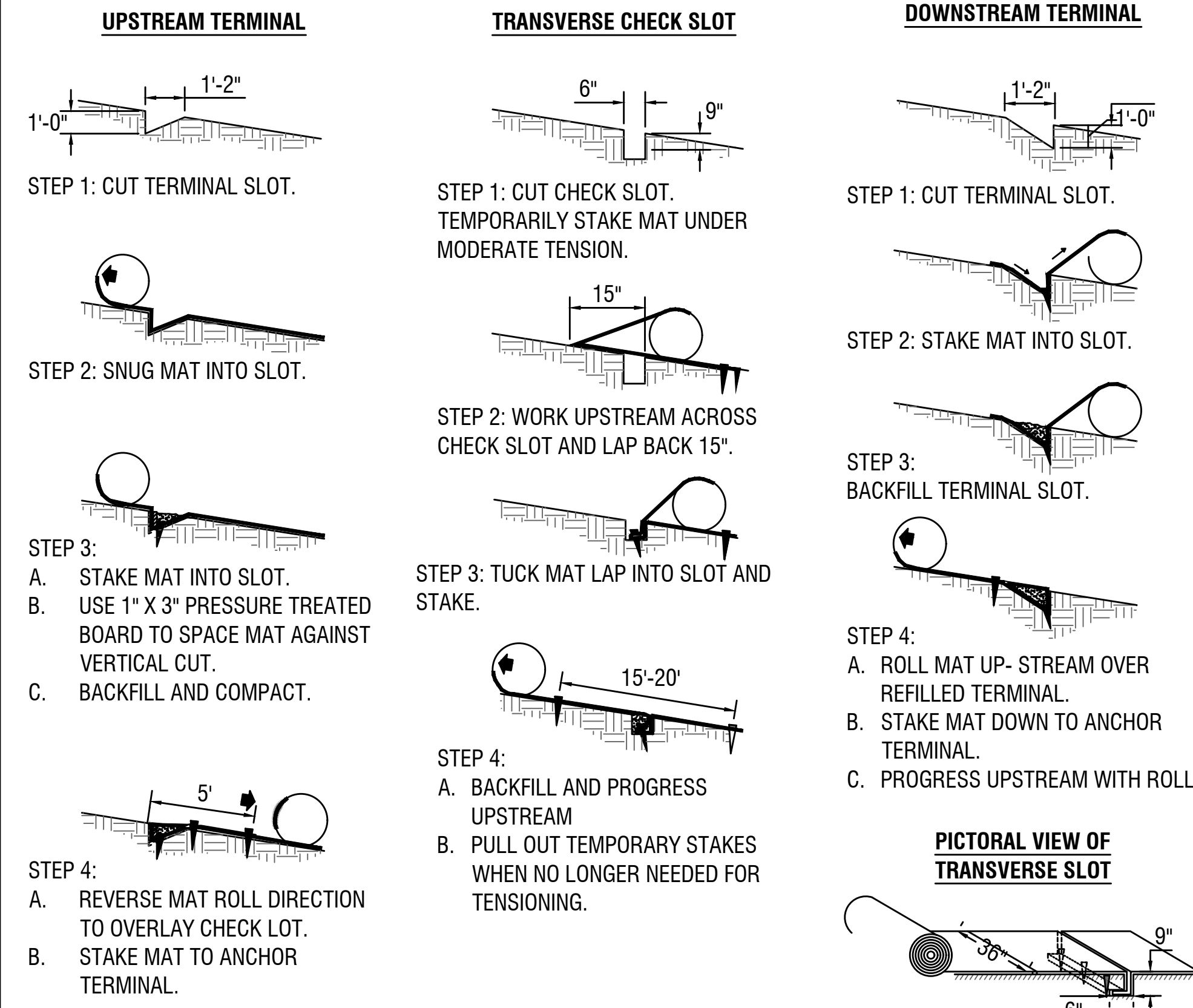
- USE 36" D.O.T. OR GSWCC APPROVED FABRIC
- CONTRACTOR MAY ELECT TO USE EITHER MESH WIRE SUPPORT OR POLYPROPYLENE MESH SUPPORT.
- WHERE MESH WIRE IS USED, POSTS SHALL BE STEEL AND THE MESH WIRE SHALL BE AS FOLLOWS: VERTICAL WIRES SHALL HAVE A MAXIMUM SPACING OF 12 INCHES AND THEIR SHALL BE A MINIMUM OF 6 HORIZONTAL WIRES. THE TOP AND BOTTOM HORIZONTAL WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
- POLYPROPYLENE MESH MAY USE EITHER STEEL OR WOOD POSTS.

MAINTENANCE NOTES:

- SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
- FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).
- TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.
- ONCE THE BARRIER IS REMOVED, THE EXPOSED GROUND SHALL BE STABILIZED IN AN APPROVED AND APPROPRIATE MANNER.

ROLLED EROSION CONTROL PRODUCTS (Ss)

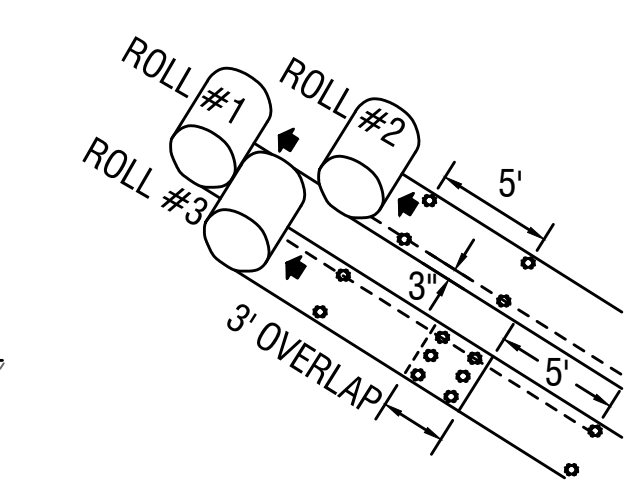
BLANKET AND MATTING CROSS-SECTIONS



NOTES:

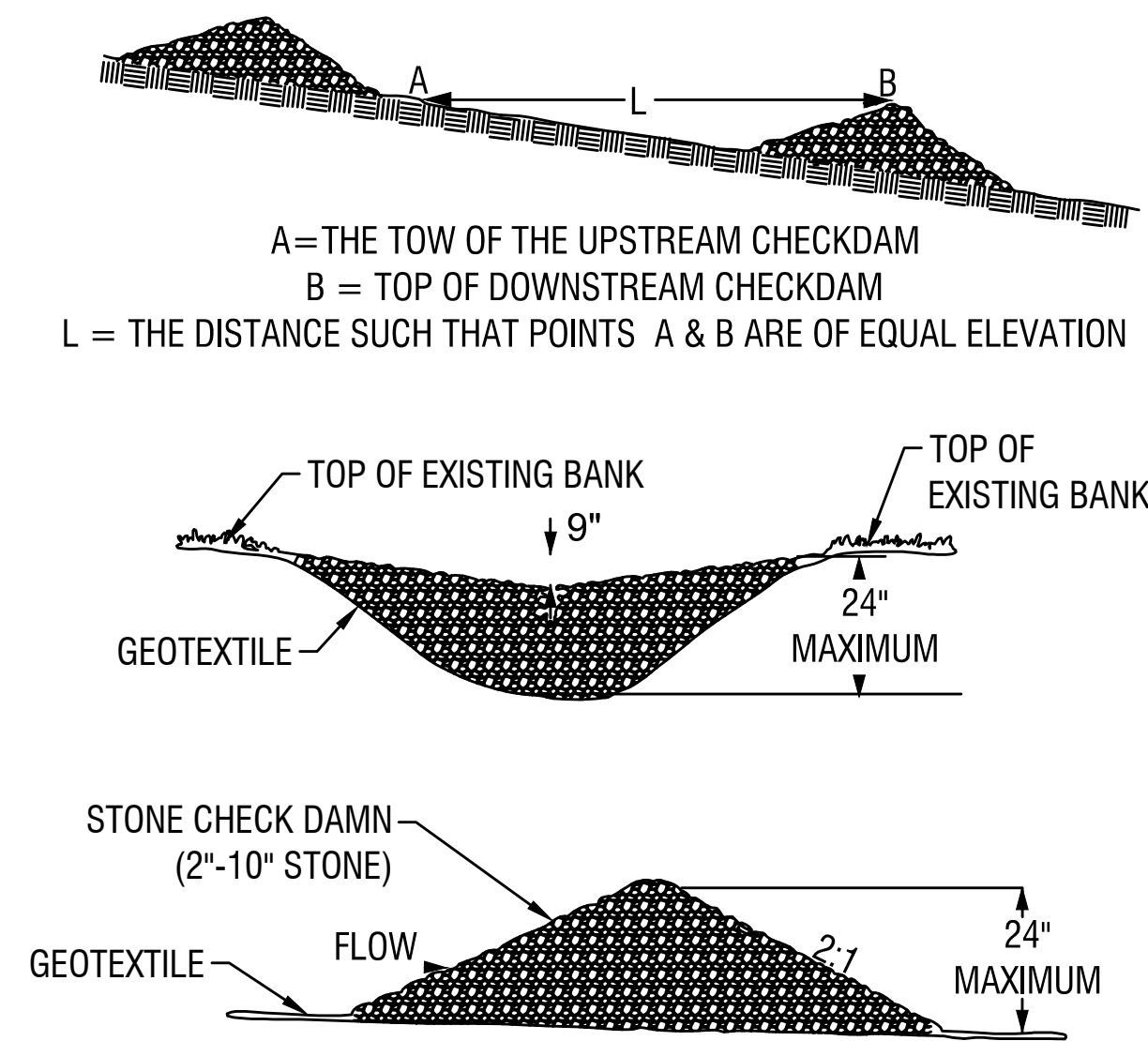
- START DOWNSTREAM AND PROGRESS UPSTREAM.
- FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL & PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
- SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
- WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
- USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.
- HYDRAULIC EROSION CONTROL PRODUCTS ARE AN ACCEPTABLE ALTERNATIVE ON SLOPES.

SEQUENTIAL ROLL RUN OUT IN CHANNELS



STONE CHECK DAM (Cd-S)

SPACING BETWEEN CHECK DAMS



NOTES:

- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
- THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
- THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
- THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
- THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
- GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

NOT TO SCALE

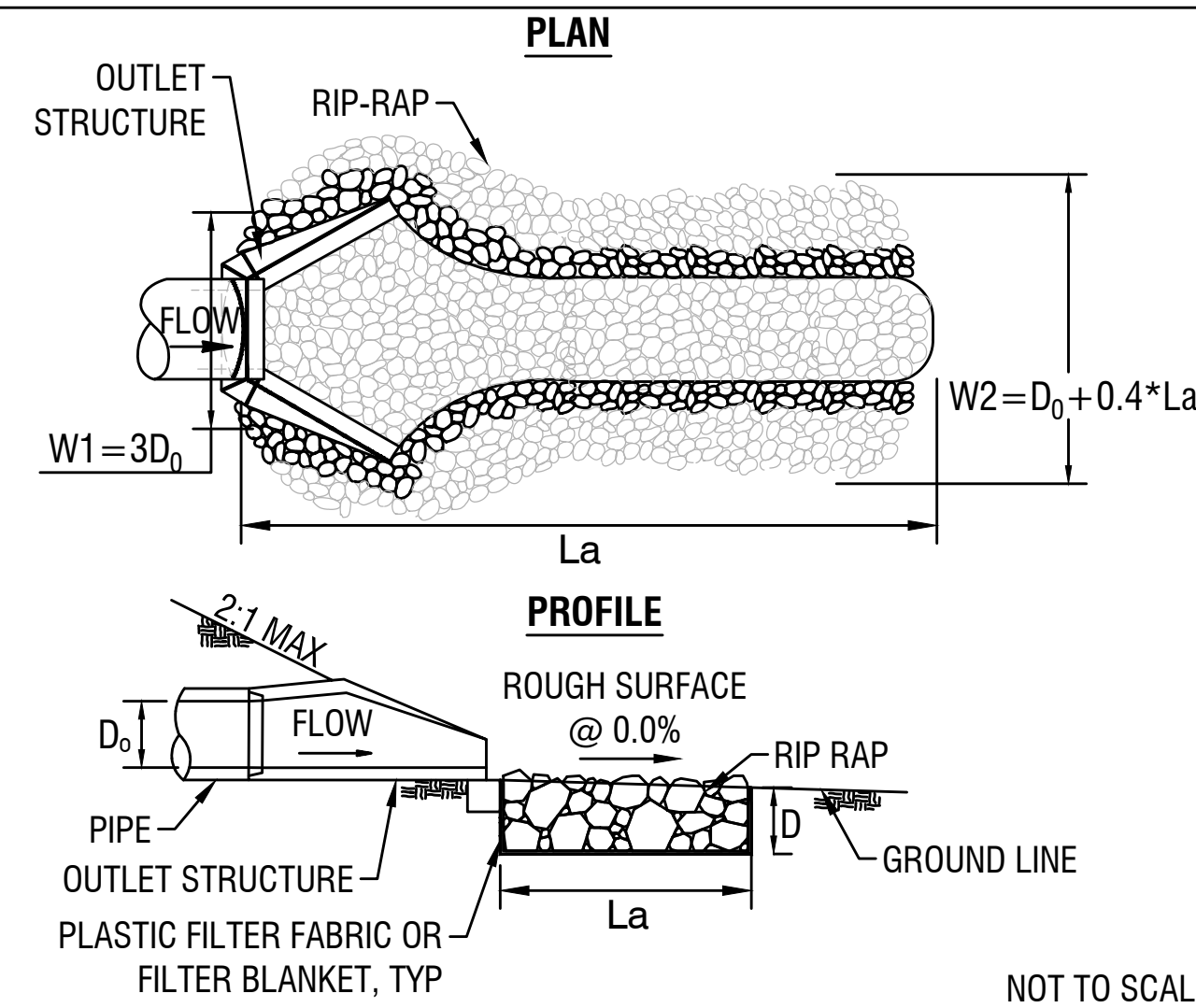
SEEDING, FERTILIZING, AND MULCHING CHART

SPECIES / TYPE	RATE (P.L.S.)		SEASON	FERTILIZING RATE			
	1000 SF	ACRE		LIME / 1000SF	6/12/12	AMMONIA NITRATE	
ZOYSIA GRASS (PERMANENT) Ds4	3 LBS	13 LBS	3/1 - 9/1	1ST YEAR	60 LBS	40 LBS/1000 SF	300 LBS/AC
				2ND YEAR (BY OWNER)	36 LBS	24 LBS/1000 SF	0
UNHULLED BERMUDA (PERMANENT) Ds3	10 LBS	40 LBS	8/15 - 4/15	1ST YEAR	60 LBS	40 LBS/1000 SF	300 LBS/AC
				2ND YEAR (BY OWNER)	36 LBS	24 LBS/1000 SF	0
BAHIA PENSACOLA (TEMPORARY) Ds3	1.4 LBS	60 LBS	YEAR ROUND	1ST YEAR	60 LBS	1500 LBS/AC	75 LBS/AC
				2ND YEAR (BY OWNER)	60 LBS	1000 LBS/AC	0
SUDANGRASS (TEMPORARY) Ds2	1.4 LBS	60 LBS	4/1 - 9/1	1ST YEAR	60 LBS	1500 LBS/AC	75 LBS/AC
				2ND YEAR (BY OWNER)	60 LBS	1000 LBS/AC	0
ANNUAL RYEGRASS (TEMPORARY) Ds2	0.9 lbs	40 LBS	8/01 - 4/15	1ST YEAR	60 LBS	1500 LBS/AC	75 LBS/AC
				2ND YEAR (BY OWNER)	60 LBS	1000 LBS/AC	0
DRY STRAW OR HAY (2" TO 4" DEEP) Ds1	115 LBS	2.5 TONS					
WOOD WASTE, CHIPS, SAWDUST, OR BARK (2" TO 3" DEEP) Ds1	275 - 425 LBS	6 - 9 TONS					

ALL LAWN AREAS SHALL BE SEEDED WITH KENTUCKY 31 FESCUE (TEMPORARY) OR HULLED BERMUDA (PERMANENT). APPLY FESCUE AT THE RATE OF FIVE (5) POUNDS PER ONE THOUSAND (1000) SQUARE FEET OR APPLY BERMUDA AT THE RATE OF TWO (2) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. ALL DESIGNATED AREAS SHALL BE PLANTED WITH A HYDRO-SEEDER AFTER AREAS HAVE BEEN PREPARED FOR SEEDING UNLESS PLANS SHOW OTHERWISE. HYDROMULCH 1000, AS MANUFACTURED BY PROFILE PRODUCTS CO., SHALL BE APPLIED AT THE RATE OF ONE THOUSAND FIVE HUNDRED (1,500) POUNDS PER ACRE ON FLAT SURFACES, TWO THOUSAND (2000) POUNDS PER ACRE ON SLOPES UP TO 3H TO 1V, AND TWO THOUSAND FIVE HUNDRED (2,500) POUNDS PER ACRE ON SLOPES GREATER THAN 3H TO 1V. APPLY SEED FERTILIZER, LIME, AND FIBER IN ONE OPERATION. EXISTING TREES AND SHRUBS IN HYDRO-SEEDED AREA SHALL BE PROTECTED DURING HYDRO-SEEDING.

CONTRACTOR SHALL BE RESPONSIBLE FOR GUARANTEEING A PERMANENT STAND OF GRASS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL GRASS AREAS UNTIL SUBSTANTIAL COMPLETION. THIS SHALL INCLUDE WATERING, FERTILIZING, MOWING, AND OVER-SEEDING FOR EROSION CONTROL PURPOSES TO ESTABLISH THE PERMANENT STAND.

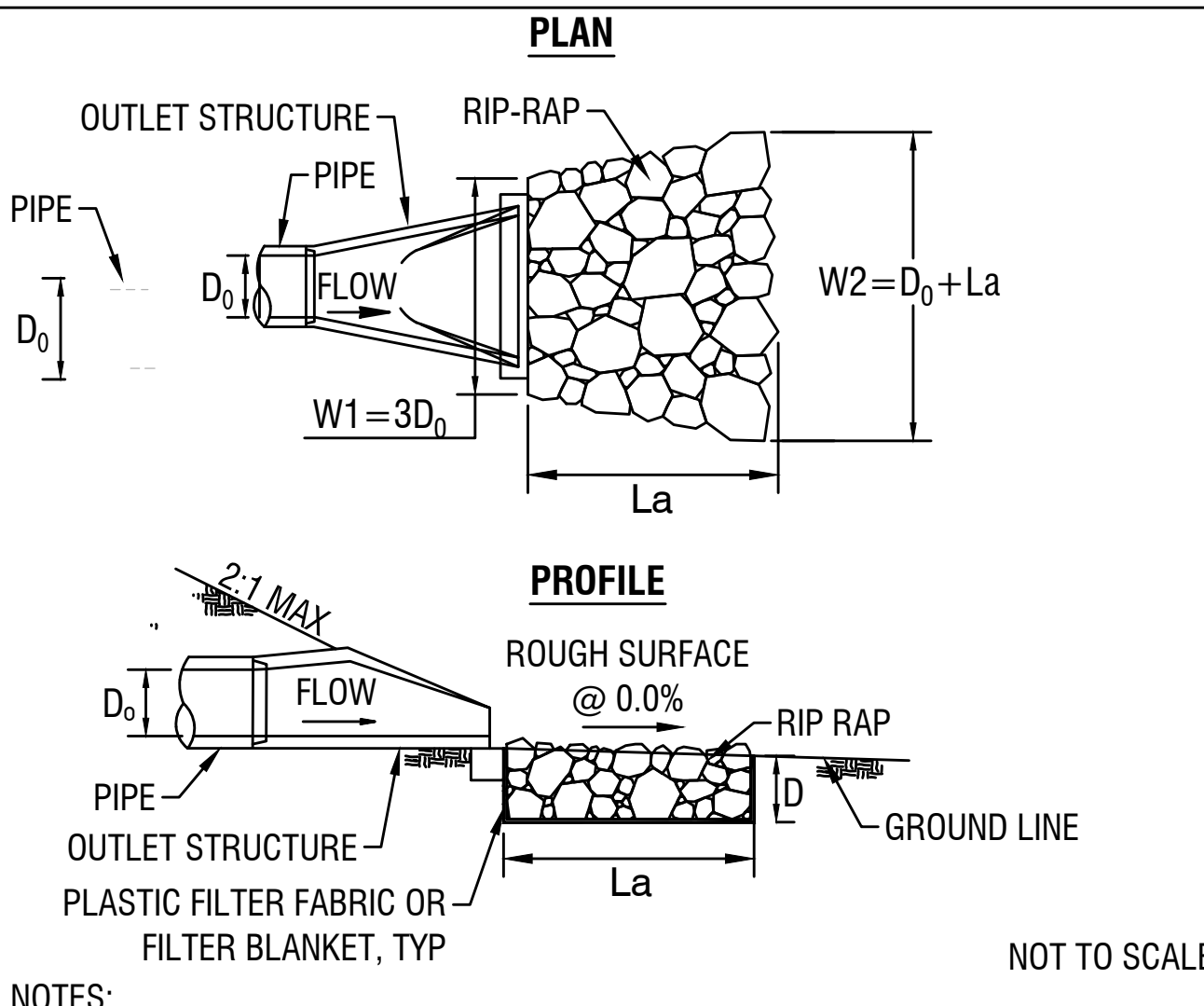
STORM DRAIN OUTLET PROTECTION TO WELL DEFINED CHANNEL / MAXIMUM TAILWATER CONDITION (St)



NOTES:

- IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
- EITHER PLASTIC FILTER FABRIC OR A FILTER BLANKET SHALL BE INSTALLED UNDERNEATH RIPRAP APRON.
- SEE TABLE FOR D0, La, D, W1, & W2.
- IF ALTERNATE RIP-RAP SIZES ARE USED, THEY SHALL BE EQUAL TO OR LARGER THAN THE D50 SIZE LISTED IN THE STORM OUTLET PROTECTION DATA TABLE WITH MINIMUM INSTALLATION DEPTH BEING ADJUSTED TO BE NOT LESS THAN 1.5 * MAXIMUM STONE DIAMETER.

STORM DRAIN OUTLET PROTECTION TO FLAT AREA / MINIMUM TAILWATER CONDITION (St)



NOTES:

- RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
- EITHER PLASTIC FILTER FABRIC OR A FILTER BLANKET SHALL BE INSTALLED UNDERNEATH RIPRAP APRON.
- SEE TABLE FOR D0, La, D, W1, & W2.
- IF ALTERNATE RIP-RAP SIZES ARE USED, THEY SHALL BE EQUAL TO OR LARGER THAN THE D50 SIZE LISTED IN THE STORM OUTLET PROTECTION DATA TABLE WITH MINIMUM INSTALLATION DEPTH BEING ADJUSTED TO BE NOT LESS THAN 1.5 * MAXIMUM STONE DIAMETER.

RIPRAP TYPE	AVG DIAMETER	MIN. DEPTH, D
D.O.T. TYPE 3	≤ 0.67 FT	18 IN.
D.O.T. TYPE 1	≤ 1.20 FT	36 IN.
SPECIAL	> 1.20 FT	SEE PLANS

REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY

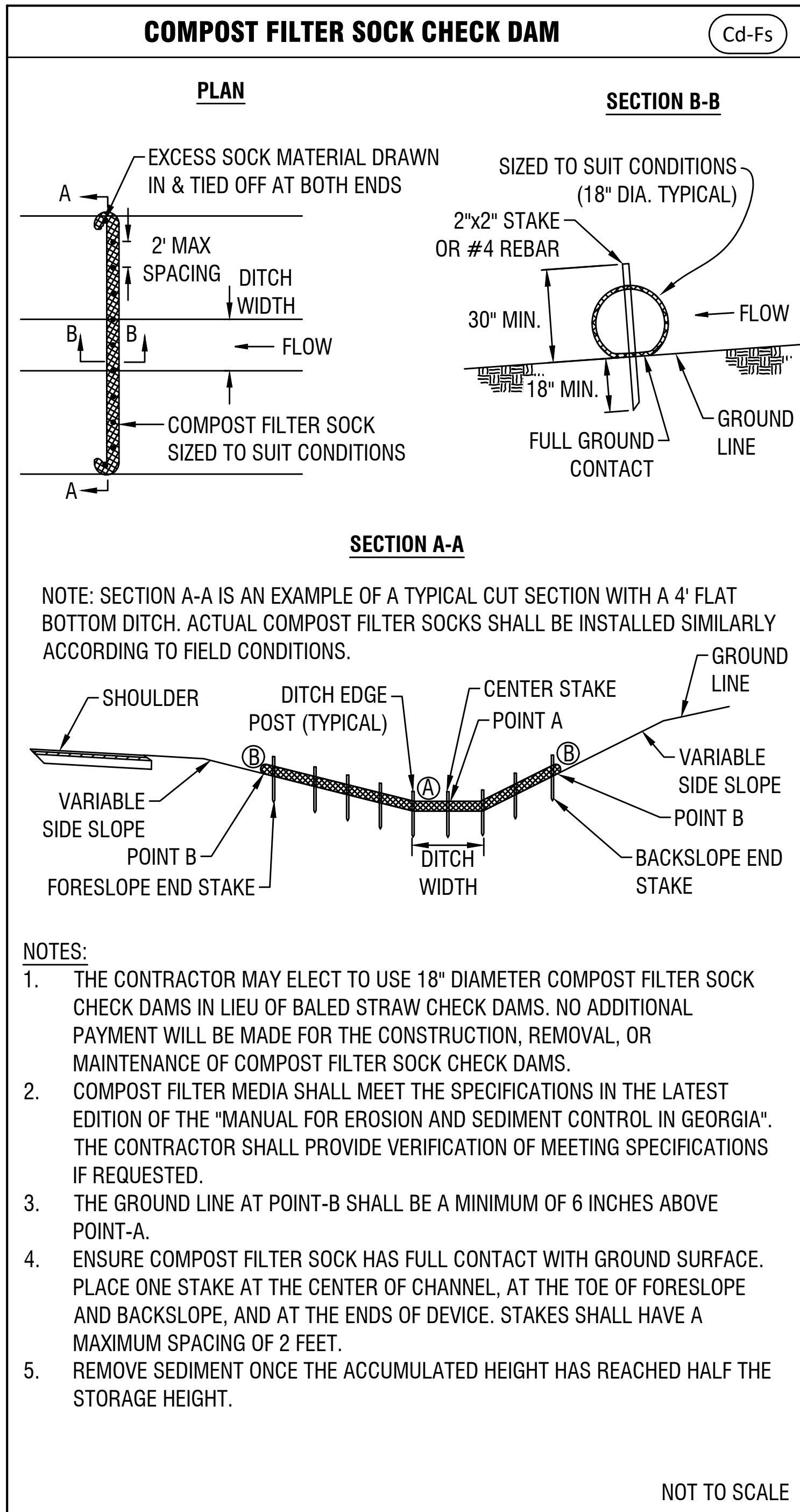
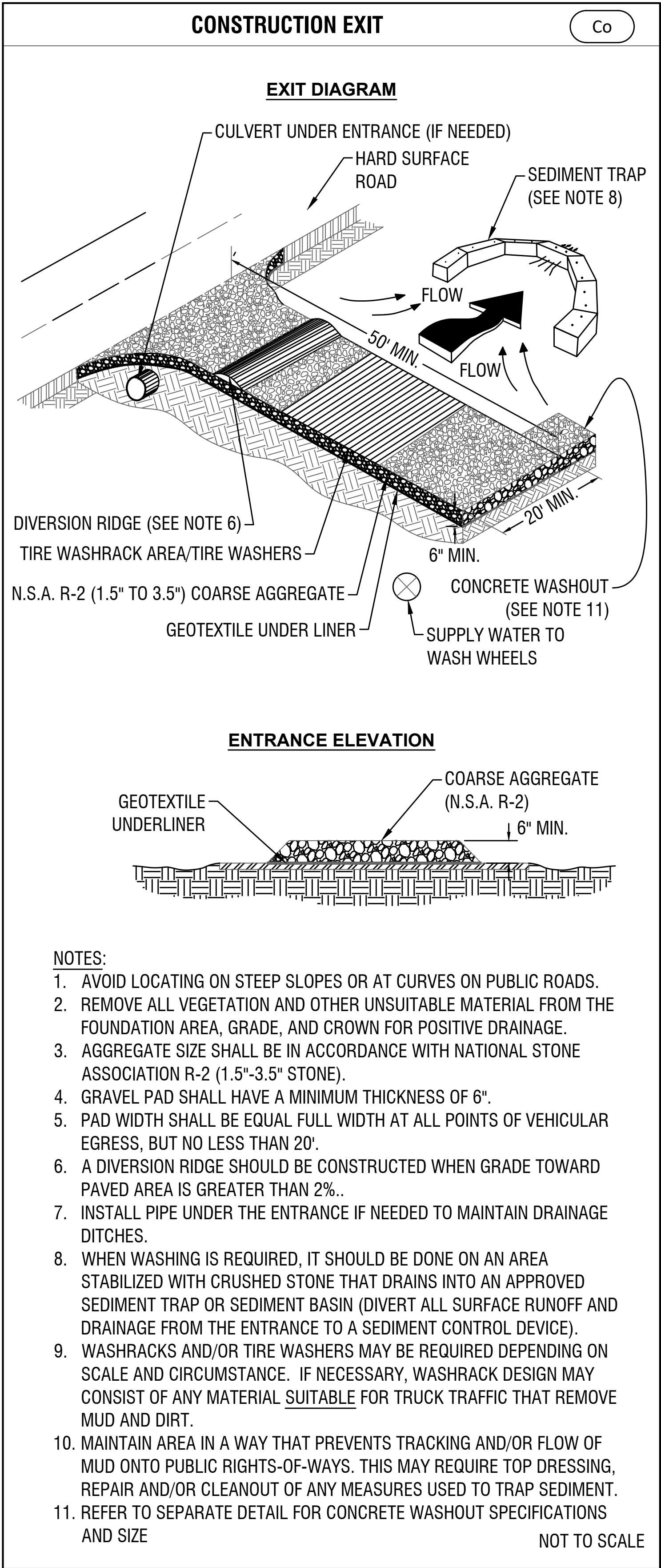
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDAABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
-

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY FAC	CKD BY CAO	DATE
		04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-5011



SEAL

REVISIONS

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NOT RELEASED FOR CONSTRUCTION

PREPARED FOR
OCONEE COUNTY
7635 MACON HWY.
WATKINSVILLE, GA 30677
7702949952

DETAILS

OCONEE CO. ADMINISTRATIVE BUILDING
ROUNDABOUT AND DRIVEWAY DESIGN
7575 SRT15/US128(BUS)/US441(BUS)
WATKINSVILLE, GA 30677

24 HOUR CONTACT
--

LL	DIST	PARCEL ID #
----	GMD221	B06029B
DWN BY	CKD BY	DATE
FAC	CAO	04/21/2022
A&R PROJECT #		
21-229		

SHEET IDENTIFICATION
CT-5012