



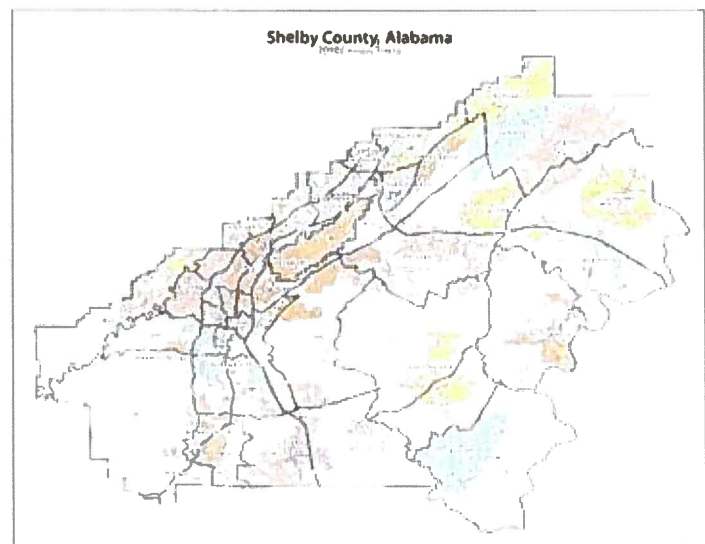
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
SCP-59-945-23	2023	1	16-F
(Revised:4/20/23)		GUARDRAIL	

David D. Willingham, P.E.
County Engineer

SHELBY COUNTY HIGHWAY DEPARTMENT

SCP-59-945-23

PLANS OF PROPOSED ANNUAL GUARDRAIL SAFETY REPAIR & REPLACEMENT PROJECT ALONG COUNTY ROADWAYS



COUNTY COMMISSIONERS

DISTRICT #1
KEVIN MORRIS

DISTRICT #6

DISTRICT #2
TOMMY EDWARDS

DISTRICT #7
LINDSEY ALLISON

DISTRICT #3
JON PARKER

DISTRICT #8
RICK SHEPHERD

DISTRICT #4
WARD WILLIAMS

DISTRICT #9
ROBBIE HAYES

DISTRICT #5
ELWYN BEARDEN

SEE ATTACHED VICINITY MAPS FOR INDIVIDUAL SITE INFORMATION

THESE PLANS HAVE BEEN PREPARED TO CONFORM TO:

- 2022 ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION
- 2023 ALDOT SPECIAL & STANDARD HIGHWAY DRAWINGS
- 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (USE MOST CURRENT REVISION).

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**INDEX TO CONSTRUCTION PLANS
2023**

SHEET # 1	TITLE SHEET / COVER PAGE
SHEETS: 1A-1B	INDEX TO ALDOT DRAWINGS, DETAILS, REFERENCES AND APPLICATIONS
SHEETS: 2-2E	PROJECT NOTES, SPECIAL CONDITIONS AND CONTRACTOR REQUIREMENTS
SHEETS: 3-15	BOX QUANTITIES, SITE MAPS AND REQUIRED WORK TO BE PERFORMED
SHEETS: 16A-16F	TRAFFIC CONTROL PLAN DETAILS FOR LANE CLOSURE TWO LANE HIGHWAY PILOT CAR AND/OR CONE APPLICATION, TYPICAL SCHEME OUTSIDE LANE CLOSURE, CHANNELIZING DEVICES, RAIL-ROAD (RR) WORK WITHIN VICINITY OF GRADE CROSSING AND FLAGGER HAND-SIGNALING.

THE FOLLOWING ARE SPECIAL AND STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIAL AND STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2023 WHICH APPLY TO THIS PROJECT:

<u>INDEX #:</u>	<u>SPECIAL DRAWING NO.</u>	<u>DETAIL/SHEET/DRAWING DESCRIPTIONS:</u>
63001	GR-630-S (1 OF 3)	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER OR GALVANIZED STEEL POSTS (DELINEATORS / REFLECTORS FOR GUARDRAIL OR CONCRETE BARRIER RAIL)
63002	GR-630-S (2 OF 3)	(MASH) GUARDRAIL HEIGHT TRANSITION DETAIL
63003	GR-630-S (3 OF 3)	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER OR GALVANIZED STEEL POSTS
63006	GR-630-FD (1 OF 2)	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL
63007	GR-630-FD (2 OF 2)	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL AND GUARDRAIL AT RADIUS
63010	GR-630-PP	DETAILS OF GUARDRAIL AT BRIDGE PIER PROJECTION ON EXISTING PROJECTS WITH SLOPES GREATER THAN 10:1
63013	GR-630-CL (1 OF 4)	DETAILS FOR GUARDRAIL (MASH) WHERE POSTS ARE BOLTED TO THE TOP OF CULVERT
63014	GR-630-CL (2 OF 4)	DETAILS FOR CONCRETE BARRIER TYPE CSF 4-A (MODIFIED) AT CULVERTS WHERE SHALLOW FILL HEIGHTS WILL NOT ACCOMMODATE NORMAL GUARDRAIL POSTS
63015	GR-630-CL (3 OF 4)	DETAILS FOR GUARDRAIL (MASH) WHERE POSTS ARE BOLTED TO THE PARAPET OF THE CULVERT

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INDEX #:	SPECIAL DRAWING NO.	DETAIL/SHEET/DRAWING DESCRIPTION:
63016	GR-630-CL (4 OF 4)	DETAILS FOR LONG SPAN GUARDRAIL (MASH) AT CULVERTS WHERE SHALLOW FILL HEIGHTS WILL NOT ACCOMMODATE NORMAL POSTS
63030	GA-630-8 (1 OF 2)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 8 (MASH)
63031	GA-630-8 (2 OF 2)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 8 (MASH)
63036	GA-630-13	DETAILS OF GUARDRAIL END ANCHOR – TYPE 13 FOR USE WITH PRECAST BRIDGES ONLY
63037	GA-630-13(M)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 13 (MASH)
63050	GA-630-20 (1 OF 3)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 20 SERIES (MASH) (TL-3)(SOFTSTOP)
63051	GA-630-20 (2 OF 3)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 20 SERIES (MASH) (TL-3)(MSKT)
63052	GA-630-20 (3 OF 3)	DETAILS OF GUARDRAIL END ANCHOR- TYPE 20 SERIES (MASH) (TL-3)(MAX-TENSION)
71032	IHS-710-21	DETAILS FOR LOCATION AND MOUNTING STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS
71035	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
71301	B-713	DETAILS OF PERMANENT BARRICADES
74007	TCD-100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES (Note: Only 36" or 42" Tall Cones Are Authorized For Use)

NOTES:

Contractor can access the following web sites if they desire or need printed copies of:

- 1. For printed copies of 2022 ALDOT Standard Specifications for Highway Construction.**
 - a. Contractor can log into the following ALDOT web site and print desired Specifications:
 - b. [Specifications \(state.al.us\)](https://www.al.gov/specifications)
- 2. For printed copies of 2023 ALDOT Standard & Special Drawings for Highway Construction.**
 - a. Contractor can log into the following ALDOT web site and print desired Drawings:
 - b. [2023 ALDOT Standard and Special Drawings \(state.al.us\)](https://www.al.gov/2023-standard-drawings)
- 3. For printed copies of 2009 Manual on Uniform Traffic Control Devices for Streets and Highways.**
 - a. 2009 [Manual on Uniform Traffic Control Devices \(MUTCD\) - FHWA \(dot.gov\)](https://www.fhwa.gov/mutcd)
 - b. 2022 [Manual on Uniform Traffic Control Devices \(MUTCD\) - MUTCD News Feed - FHWA \(dot.gov\)](https://www.fhwa.gov/mutcd-news-feed)

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PROJECT NOTES

General Notes:

1. Mobilization and Construction Fuel shall be a subsidiary obligation of this contract.
2. The Contractor shall complete all Units of Work within **30 Working Days** from the written Notice to Proceed.
3. Any damage to in-place paving, curb and gutter, sidewalk, grassing, etc. shall be repaired by the Contractor to the satisfaction of the Engineer, or his Delegate, at no additional cost to the project.
4. It shall be the Contractor's responsibility to contact the various utility owners and determine the exact locations of all existing utilities on this project before commencing work. The location of any required guardrail or end anchors of any nature may be adjusted as directed by the Engineer to prevent any conflicts with these utilities. The Contractor agrees to be fully responsible for all damages that occur due to failure to locate and preserve all underground utilities. Contractor shall be solely responsible for the cost of repairing any utilities damaged as a result of their operations.

Specific Project Notes:

5. Where shoulder widening is required for the Contractor to install required guardrail or end treatments, the Contractor shall notify the Engineer. Shelby County forces will complete all required widening of shoulders related to the installation of guardrail or end treatments.
6. The Contractor shall remove any existing guardrail and end treatments as necessary to install the required guardrail repairs or replacements as specified on the plan sheets. Any existing guardrail materials to be removed or reset as a result of the specified repair or replacement shall be done and paid for as a subsidiary obligation of the contract.
7. All installation shall conform to current Alabama Department of Transportation (ALDOT) Standard Specifications for Highway Construction 2022 Edition, ALDOT Special & Standard Highway Drawings 2023 Edition, and application shall also comply with Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways 2009 Edition (most current revision).
8. All material and hardware used must be from the approved ALDOT List of Qualified Materials, Sources & Devices and the Special Acceptance Requirement Manual QPL list and meet or exceed minimum standard specifications and requirements associated with each pay item. [List of Qualified Materials, Sources, and Devices \(state.al.us\)](https://www.al.gov/transportation/qualified-materials-sources-devices)
9. Any guardrail/bridge rail removed as a part of this project must be replaced/repaired the same day.

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PROJECT NOTES

Traffic Control Notes:

10. Shelby County will not provide traffic control safety equipment or personnel to the Contractor for this project. It is the responsibility of the Contractor to provide all required temporary traffic control signs, safety equipment, and personnel. Any costs associated with the deployment and operation of temporary traffic control measures shall be a subsidiary obligation of the contract.
11. Lane closure times may be restricted by the Engineer in high traffic locations. If a lane closure restriction is required, the Engineer will notify the Contractor, in advance, the times of day lane closures are restricted. This will be based upon specific site conditions during construction.
12. The Traffic Control Plan is developed in conformance with the Manual on Uniform Traffic Control Devices Part 6, 2009 Edition. The traffic control devices indicated represent conditions known during plan development. In the event actual physical conditions warrant additional traffic control devices, they shall be installed in conformance with the M.U.T.C.D. Part 6 as directed by the Engineer. Cost shall be a subsidiary obligation of the contract.
13. All black on orange construction signs shall be fabricated using Types IV or VIII fluorescent orange reflective sheeting material for the sign background. Construction signs mounted on temporary supports shall be mounted at a minimum height of 5 feet.
14. **All signs must be in good repair, clean and proper size with clean reflective sheeting free of any "dead spots".**
15. During non-working hours, no equipment or material shall be parked or stored closer than **30 feet** to the edge of any roadway carrying traffic. When this is not practical, it shall be placed in an area designated by the Engineer and delineated by reflectorized drums. This includes storage of traffic control devices such as trailer mounted or other temporary signs, barricades, drums, etc., which are not in use during non-working hours.
16. Where the location of a required sign falls in a driveway, sidewalk, bridge, etc., or where the visibility of a sign is limited to the traveling public, the location shall be adjusted as directed by the Engineer.
17. The contractor is to remove, relocate or cover during construction and then reset or uncover upon completion of a particular section any conflicting in-place roadway signs and delineators, as directed by the Engineer.
18. The contractor shall place all advance warning signs before proceeding with his work. Signs shall be placed in order, in the direction of traffic and removed in reverse order.
19. All vehicles, equipment, personnel (except flaggers), and their activities, are restricted at all times to one side of the pavement unless otherwise authorized by the Engineer.
20. The contractor shall maintain at least one access to businesses and residences during all phases of construction.

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**PROJECT NOTES
SHELBY COUNTY, AL**

21. **Flaggers shall be properly attired, equipped with staff mounted stop/slow paddles in sight of each other, or have direct communication at all times.** Flagger station location may be varied from those shown based on roadway alignment and conditions at the time of the lane closure.
22. Flaggers are to be used at all times when normal flow of traffic is being interrupted, when unsafe conditions are present and when directed by the Engineer. Signs shall be placed at the appropriate time and distances, and shall be covered or removed when flaggers are not on duty and during non-working hours.
23. For moving operations, the traffic cones may be deleted if the flaggers are in sight of each other, or if a pilot car is used on a two lane roadway. **Moving operations shall be confined to one lane in the direction of traffic.**
24. All Contractor's employees' personal vehicles, and Contractor's equipment not in operation, shall be parked a minimum of thirty (30) feet from the traveled roadway during working hours, as not to create a hazard.
25. The Traffic Control Plan is not all inclusive. The TCP provides several detailed drawings indicating the traffic control necessary for the different construction activities anticipated for this project. The Contractor shall select the detailed drawing that best fits the activity to be performed.
26. All traffic control devices that are not applicable at any specific time shall be covered or removed.
27. The Contractor shall make provisions for the safety of pedestrian traffic crossing the work zones during construction.
28. All signs shall be post-mounted if the work period exceeds four (4) days, except for those signs which are mounted on barricades. For repeated day operations, signs may be mounted on temporary supports and removed daily, upon completion of the day's operation.
29. Signs on temporary supports are to be removed or covered when no work is being performed or at the completion of the day's operation.
30. **Channelizing Drums:** Shall be placed on 10 foot intervals in radii, on 25 foot intervals throughout all **tapers**, and placed to protect completed work not open to traffic should be spaced at 50 foot intervals.
31. **Reflective Traffic Cones:** Shall be 36" or taller, clean and in good repair.
32. **STOP/SLOW Paddles:** Staff mounted and hand-held paddles shall be in good repair, clean and proper size.
33. **Hand Signaling Flags:** Shall be made of florescent orange or red semi-flexible vinyl with heat sealed welt securely fastened to a staff of at least 36" in length. Flags shall be clean and in good repair.

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PROJECT NOTES

34. Channelizing drums placed on pavement during working hours shall be shifted to the edge of shoulder during non-working hours and during peak periods
35. Channelizing devices shall extend to a point where they are visible to approaching traffic.
36. The Contractor shall close the lane adjacent to the work area anytime work outside the existing travel lanes encroaches within 2 feet of the existing edge of pavement.
37. The transition taper length (L) is shown in Table 6C-4, and the buffer length is shown in Table 6C-2 of the MUTCD, Part 6, 2009 Edition. [Part 6 Table of Contents - MUTCD 2009 Edition - FHWA \(dot.gov\)](#)
38. During replacement of guardrail and/or guardrail end anchors, a reflectorized drum shall be placed before the end of any exposed guardrail at night where the guardrail end anchor cannot be replaced in one day's time.
39. Construction signs mounted on a single or dual square tubular or U-channel post shall be installed as shown on Index Sheets # 71032 and 71035 with Special Drawing # IHS-710-21 and IHS-710-23.
40. **SITE # 4*:** Contractor must contact Railroad Property Owner and schedule "Track Time" before performing any work on Railroad Right-of-Way (R.O.W.) and before working on or near any railroad crossings.
(Norfolk Southern [855-667-3655](tel:855-667-3655) or [800-453-2530](tel:800-453-2530) [Contact Us / Norfolk Southern \(nscorp.com\)](http://ContactUs.NorfolkSouthern.com) concerning repairs of County safety items at N.S. Crossing # **727852P** at or near N.S. Mile Post #: **9.25** in Maylene, AL 35114)

Line Location:

41. It shall be the Contractor's responsibility to call for a line locate, for each work site, and determine the exact location of all underground utilities before commencing work. The Contractor agrees to be fully responsible for all damages which might be occasioned by their failure to exactly locate and preserve all underground utilities. In all instances, the Contractor shall be solely responsible for the cost of repairing any utilities damaged as a result of their operations with no cost charged to Shelby County.

Payment Vouchers:

42. Payment Vouchers of Work Performed and Expenditures are processed at the end of each month. 5% Retainage will be withheld from each Payment Voucher until 50% of the project has been completed. All quantities, material used, material removed (site clean-up), shall be field checked and agreed upon between the Contractor and the Shelby County representative prior to any invoices being processed and paid.
43. Only one payment voucher will be processed per month and at the end of each month. Final payment will be issued upon receipt of all required certifications and product documentation and if all Work is found to be acceptable and conforms to contract requirements and current standards and regulations

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PROJECT NOTES

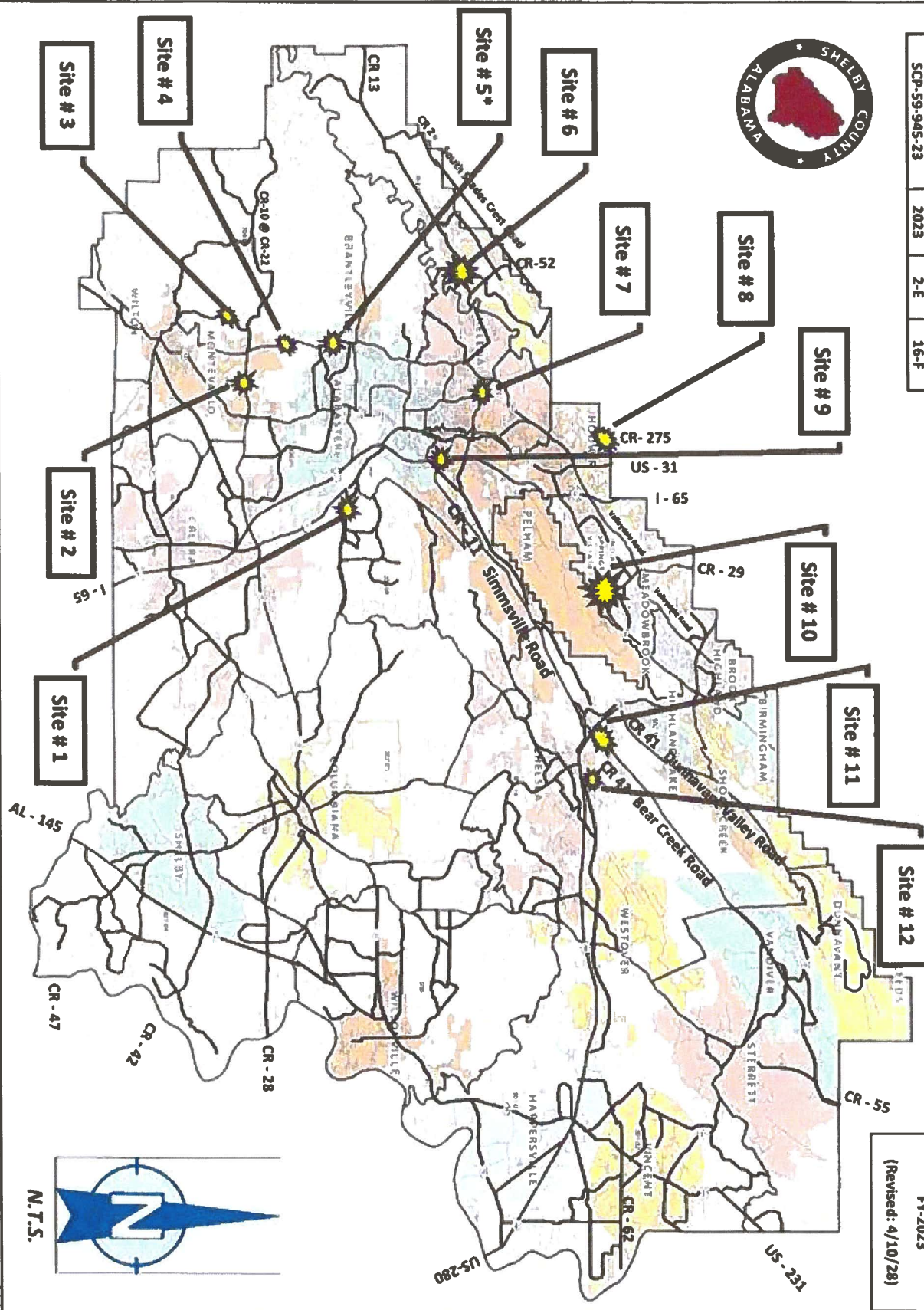
44. All supporting documentation and certifications must be received before any payments are made. All material and work is to conform to current ALDOT and MUTCD standards and listed on the ALDOT pre-approved List of Qualified Materials, Sources and Devices and MSDSAR Qualified Products List.
45. Retainage will be paid after copies of all 4 weeks of Public Legal Notice of Completion are provided and an Affidavit of Advertisement. Retainage will be paid in the final invoice after the four (4) week Public Legal Notice of Completion time has been exhausted. Contract shall be subject to Liquidated Damages if needed.

LOCATIONS OF GUARDRAIL WORK SITES

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Shelby County, Alabama

ANNUAL GUARDRAIL SAFETY PROJECT
FY-2023
(Revised: 4/10/28)



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SUMMARY OF BOX QUANTITIES

Revised: 4/20/23

Site No.	County Road #:	206D-001 Remove Guardrail	206E-008 Remove End Anchor	630A-001 Steel Beam Guardrail	630A-001 Radius Rail	630C-070 Anchor Type-10	630C-080 Anchor Type-20	Set New Post	City / Town	Locations
		LF	EA	LF	LF	EA	EA	EA		
1	26		1				1		Saginaw	Quarry Bridge at Saginaw Fire Department
2	22		1				1		Underwood	Culvert at Circle D Ranch and Flying X Drive
3	17		1				1		Dogwood	Caution: Powerpole Tie-Down Guywire
4	17		1				1		Ryan/Maylene	RR Xing at Ryan Baptist Church and Mary Ln.
5	17		1				1		Old Maylene	RR X-ing at CR-267 and Maylene Post Office
6	13							1	Helena	Intersection of CR-13 and CR-52
7	95	50			50				Helena	Intersection of CR-95 and CR-52
8	275	75	1	75			1		Hoover	Galleria Shortcut / Lower Lorna Road
9	52	50		50					Pelham	I-65 Southbound Tank Farm Exit #242
10	29	25	1	25		1			Hoover	(CR-29) Lee Street Dr. / Oak Mt. High School
11	43	400		250	150				Chelsea	Intersection & Approaches to New 280
12	280	100		100					Chelsea	Old 280 behind Sonic
TOTAL		700	7	500	200	1	6	1		

Straight Radius Type-10 Type-20 Post

Project Notes for Each Site Location:

County Site #	Road #:	Notes
1	26	Saginaw Quarry bridge at Volunteer Fire Station
2	22	Underwood
3	17	Dogwood Powerpole guywire tie-down is attached to one of the metal GR post.
4	17	Ryan
5	17	Maylene "Railroad" Contractor must contact Norfolk Southern Railroad Company and schedule "Track Time" and Safety Inspector
6	13	Helena On CR-13 at the intersection of CR-52
7	95	Pelham
8	275	Hoover Jefferson County side of Cahabe River. Old Montgomery Highway and Lower Lorna Road
9	52	Pelham I-65 South, Exit # 242, "Tank Farm Exit" on the Home Depot side
10	29	Hoover Lee Street Drive, End Anchor at Sidwalk Handi-Cap Ramp off of Caldwell Mill Road, across from Oak. Mt. High School
11	43	Chelsea New 280, all four sides of four way intersection at Traffic Signal abd down Northern portion of Bear Creek Road
12	280	Chelsea Old 280 behind Sonic

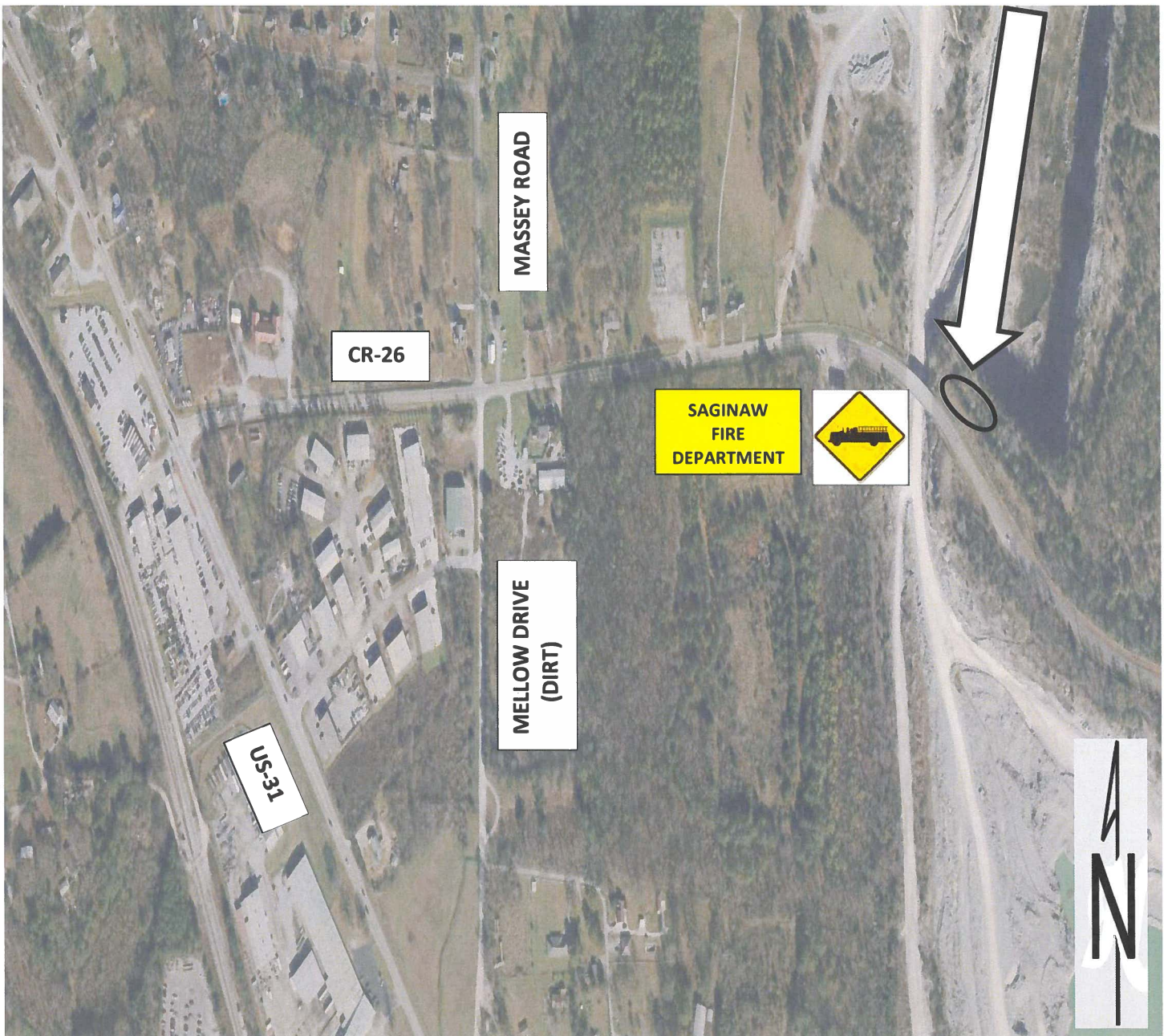
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
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SITE # 1

CR-26 (SAGINAW FIRE DEPARTMENT)

QUARRY BRIDGE OVERPASS

ITEM= TYPE 20 END ANCHOR



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SITE # 2

CR-22 (FLYING "X" SPILLWAY)

CULVERT BETWEEN CR-15 AND AL-119

ITEM= TYPE 20 END ANCHOR



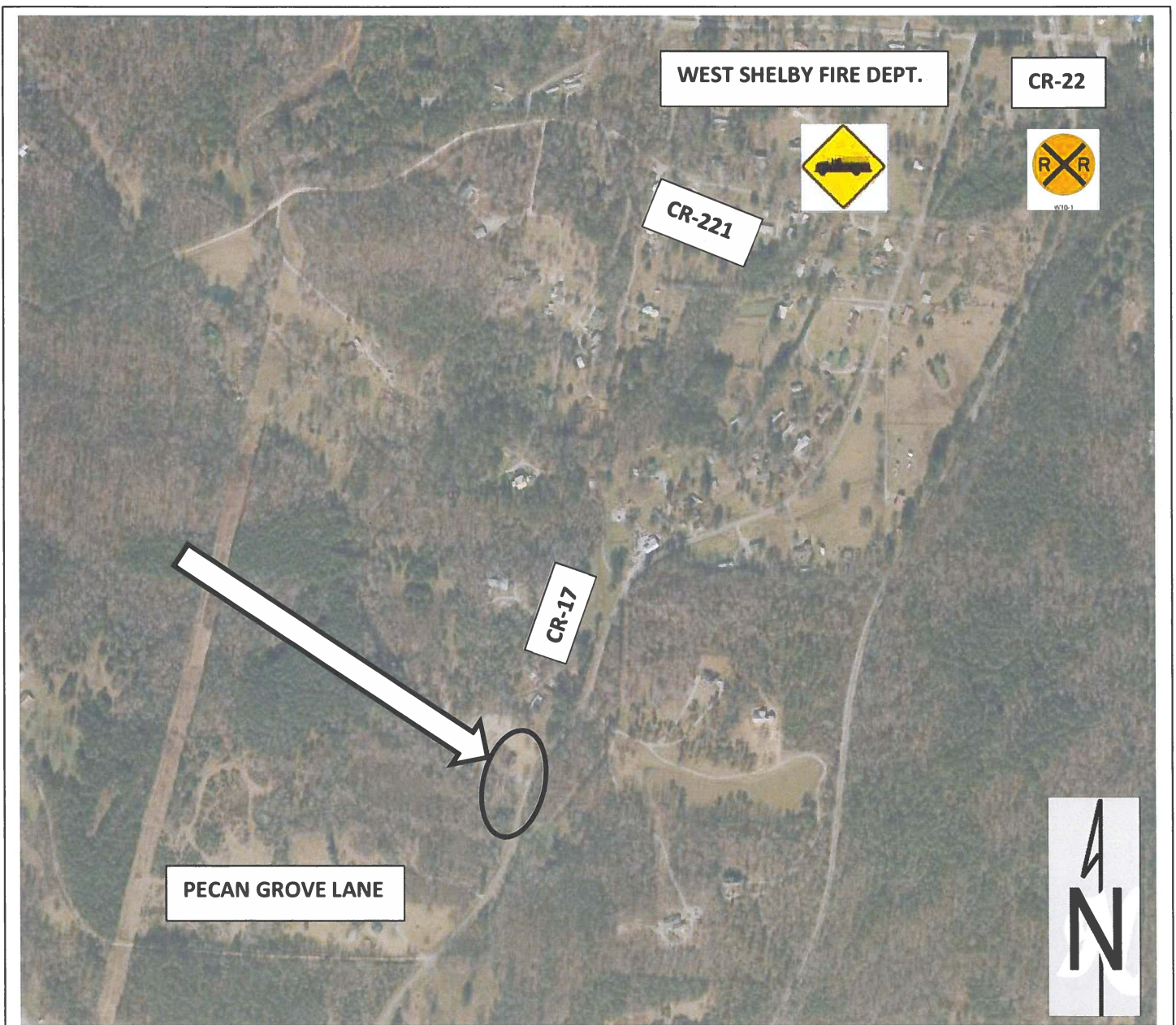
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SITE # 3

CR-17 (DOGWOOD)

PECAN GROVE LANE

ITEM= TYPE 20 END ANCHOR



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SITE # 4

CR-17 (RYAN BAPTIST CHURCH)

RAILROAD CROSSING AT MARY LANE

ITEM= TYPE 20 END ANCHOR



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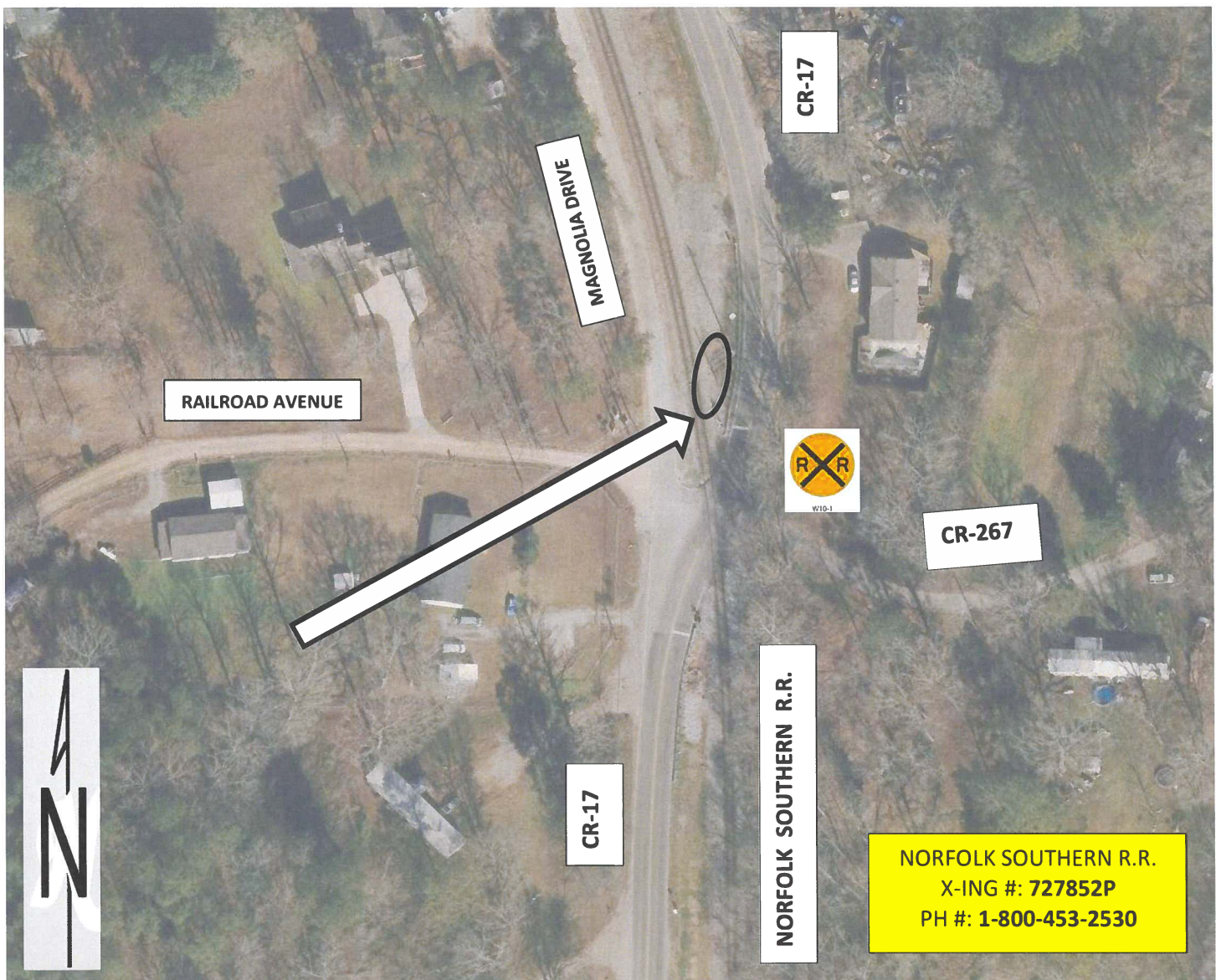
SITE # 5*

CR-17 (OLD MAYLENE POST OFFICE)

RR X-ING AT CR-267 AND MAGNOLIA DRIVE

Contractor must contact Norfolk Southern for Track Time

ITEM= TYPE 20 END ANCHOR



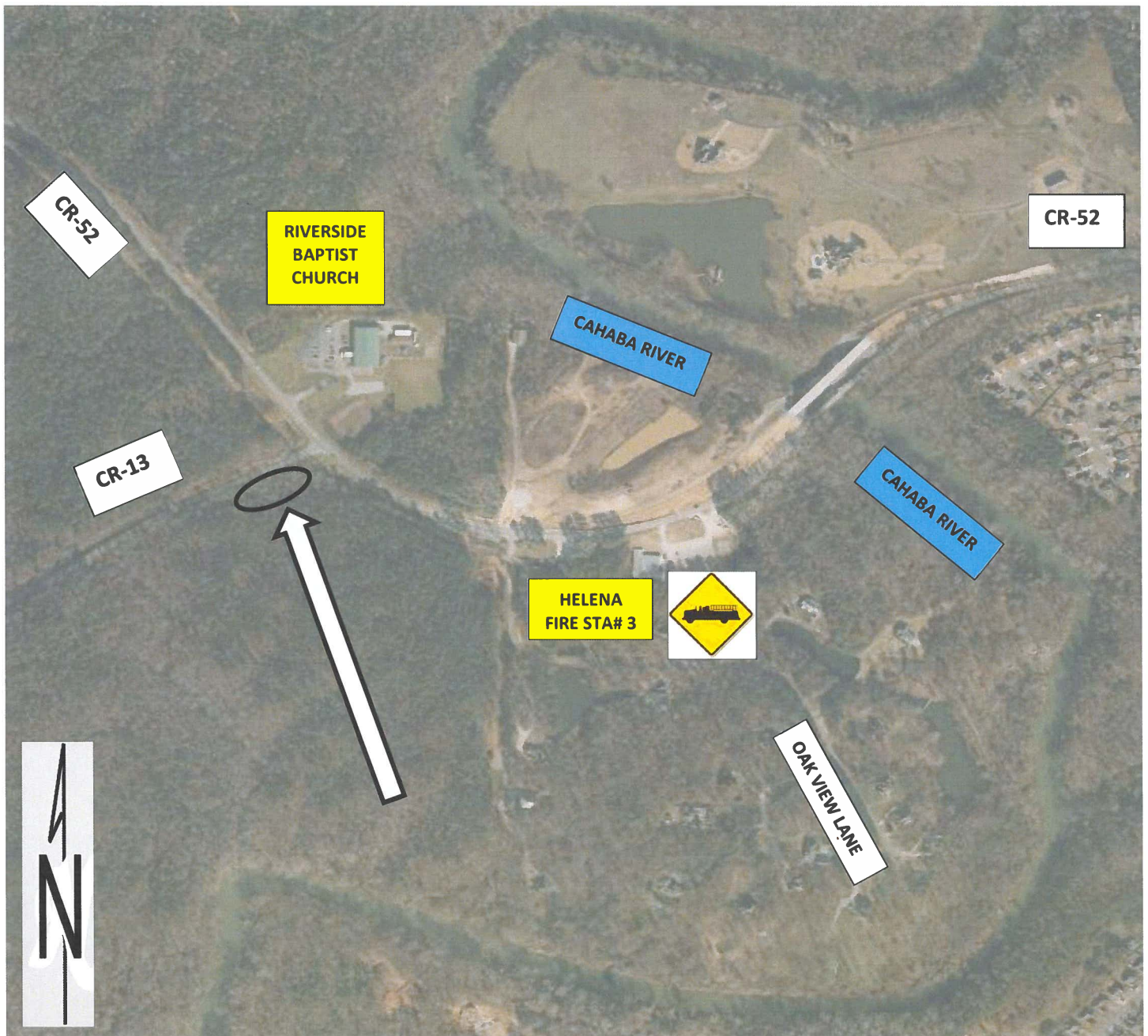
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
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SITE # 6

CR-13 (HELENA)

INTERSECTION OF CR-52 NEAR FIRE STATION #2

ITEM= REPLACE ONE (1) METAL POST



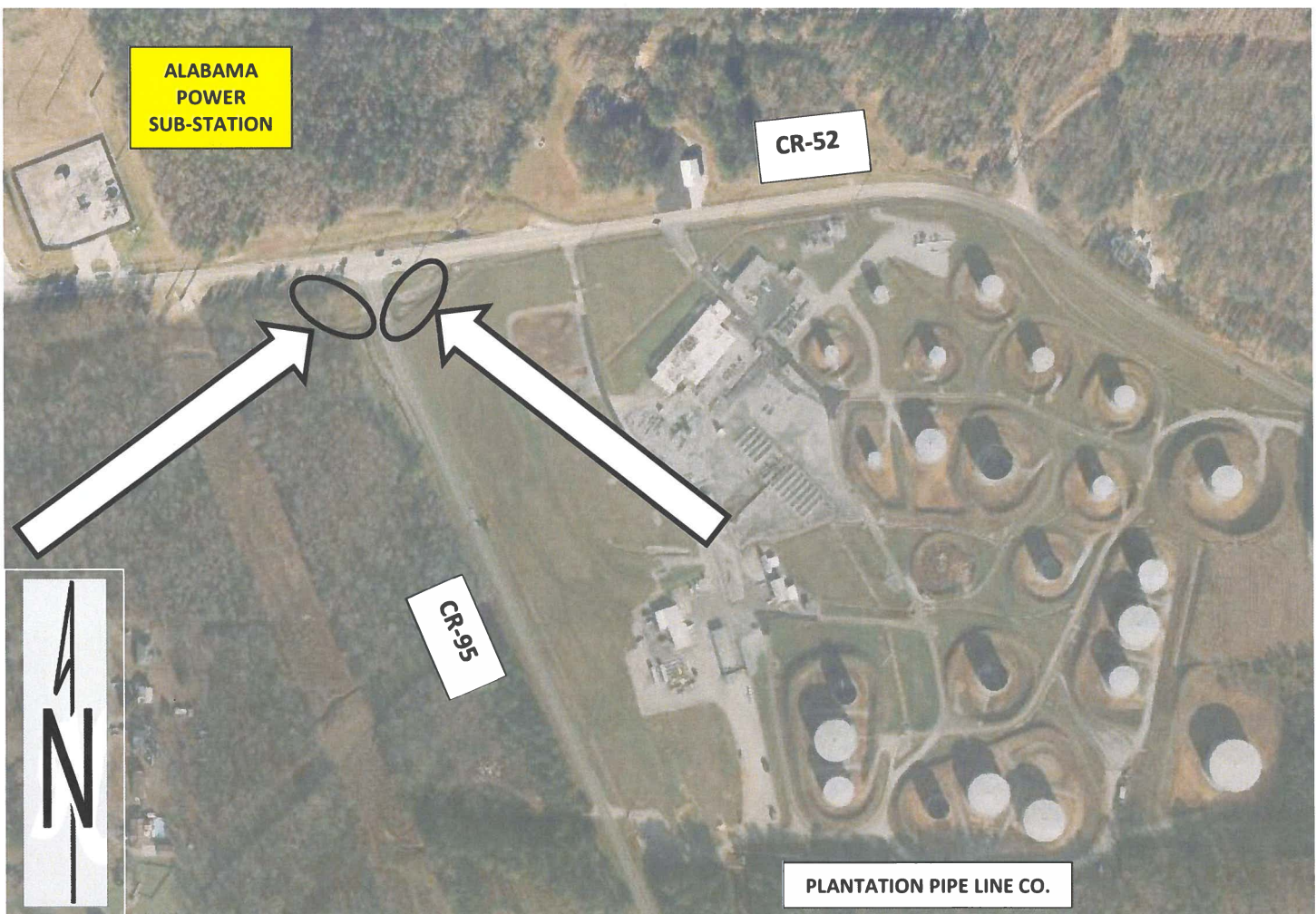
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SITE # 7

CR-95 (PELHAM)

INTERSECTION OF CR-52

ITEM= 50' LF OF "RADIUS" RAIL



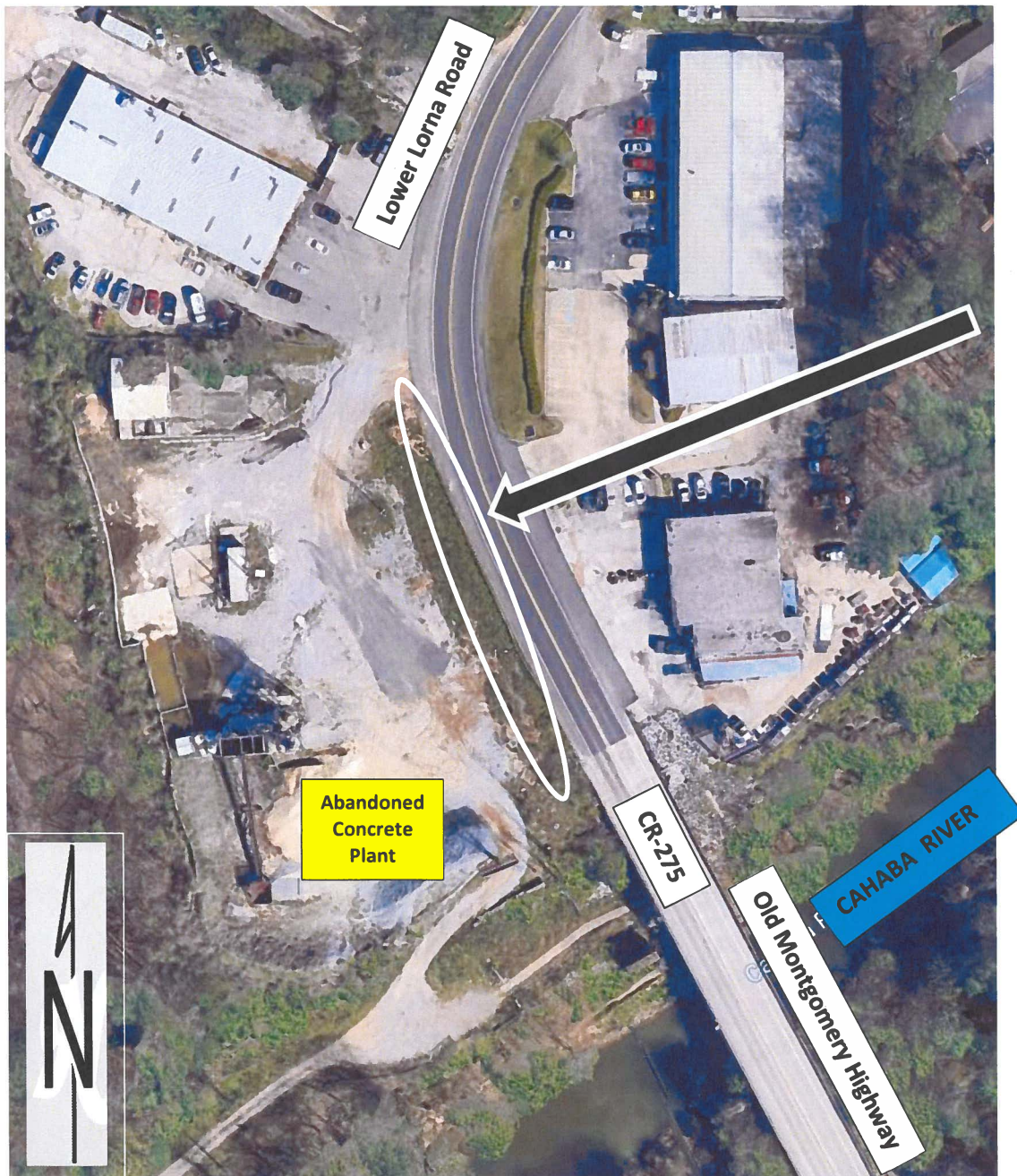
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
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SITE # 8

CR-275 ("LOWER" LORNA ROAD)

OLD MONTGOMERY HIGHWAY / CAHABA RIVER

ITEMS= TYPE 20 END ANCHOR & 75' LF OF GR



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SITE # 9

CR-52 PELHAM

COLONIAL PIPELINE (EXIT # 242)

ITEM= 50' LF GUARDRAIL



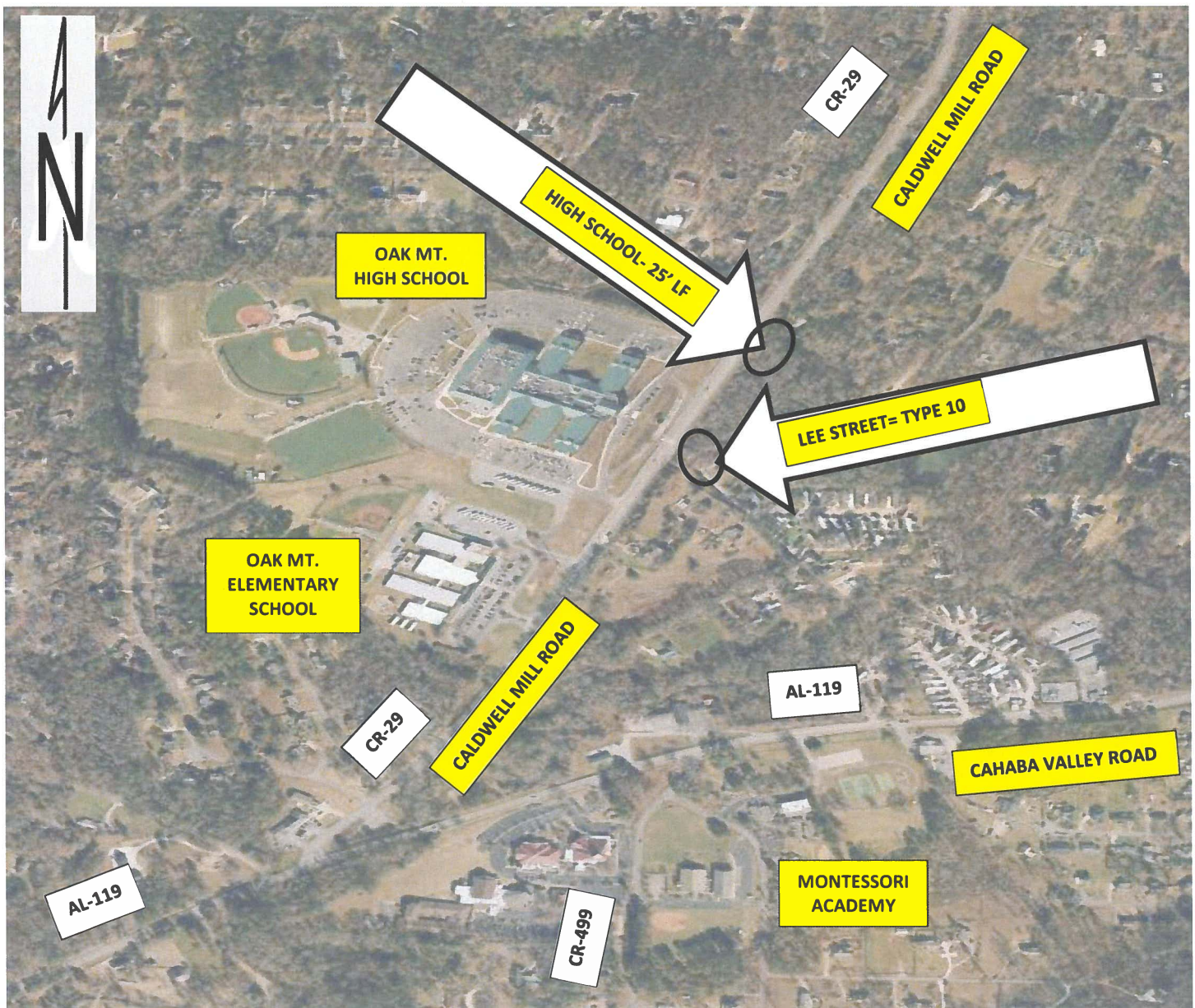
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
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SITE # 10

CR-29 CALDWELL MILL ROAD

BETWEEN AL-119 AND CR-14

1. LEE STREET= TYPE 10 END ANCHOR (MODIFIED)
2. OAK MT. HIGH SCHOOL= 25' LF GUARRAIL



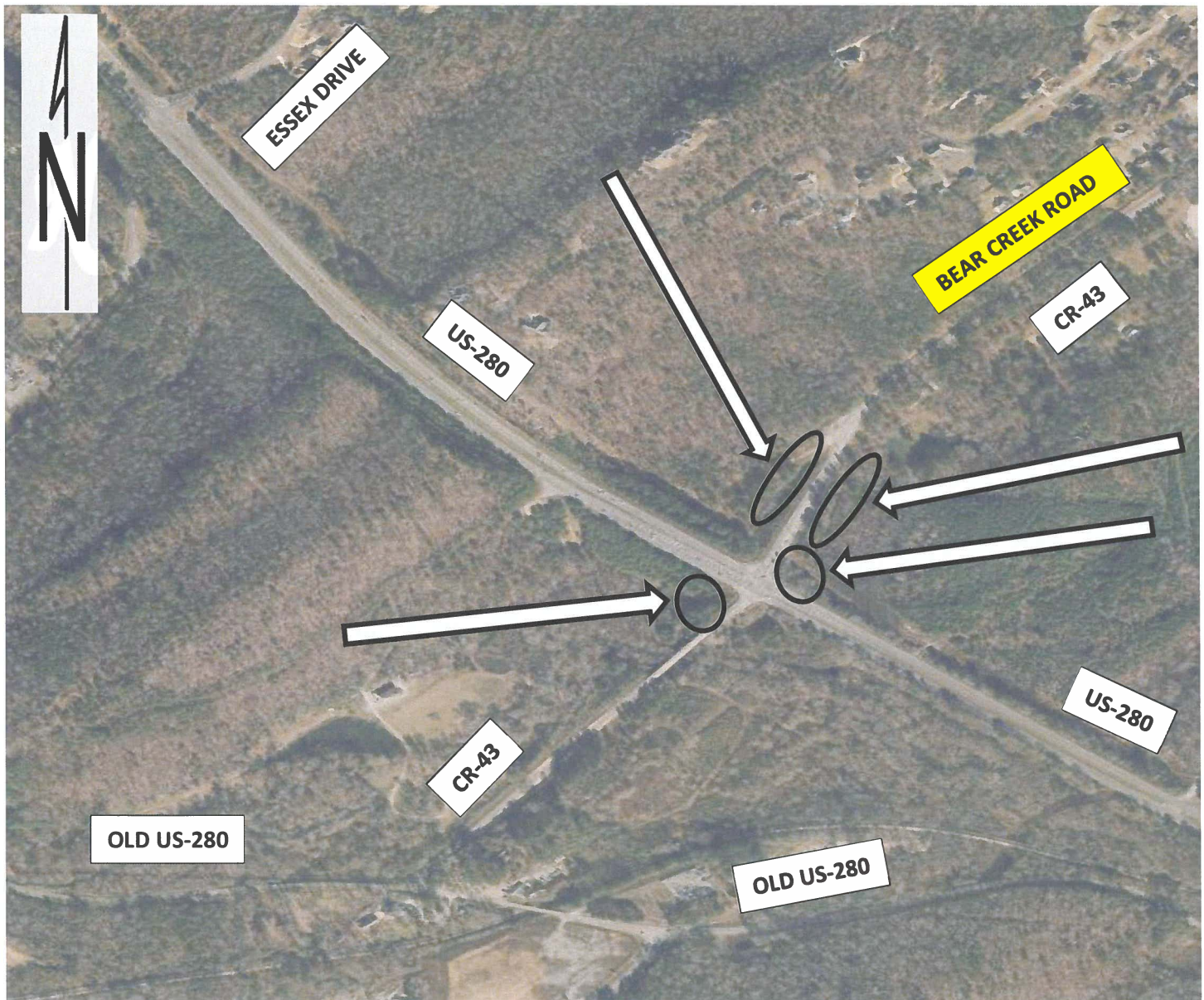
SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
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SITE # 11

CR-43 (CHELSEA)

BEAR CREEK ROAD OFF OF US-280

1. 250' LF OF STRAIGHT RAIL
2. 150' LF OF "RADIUS" RAIL



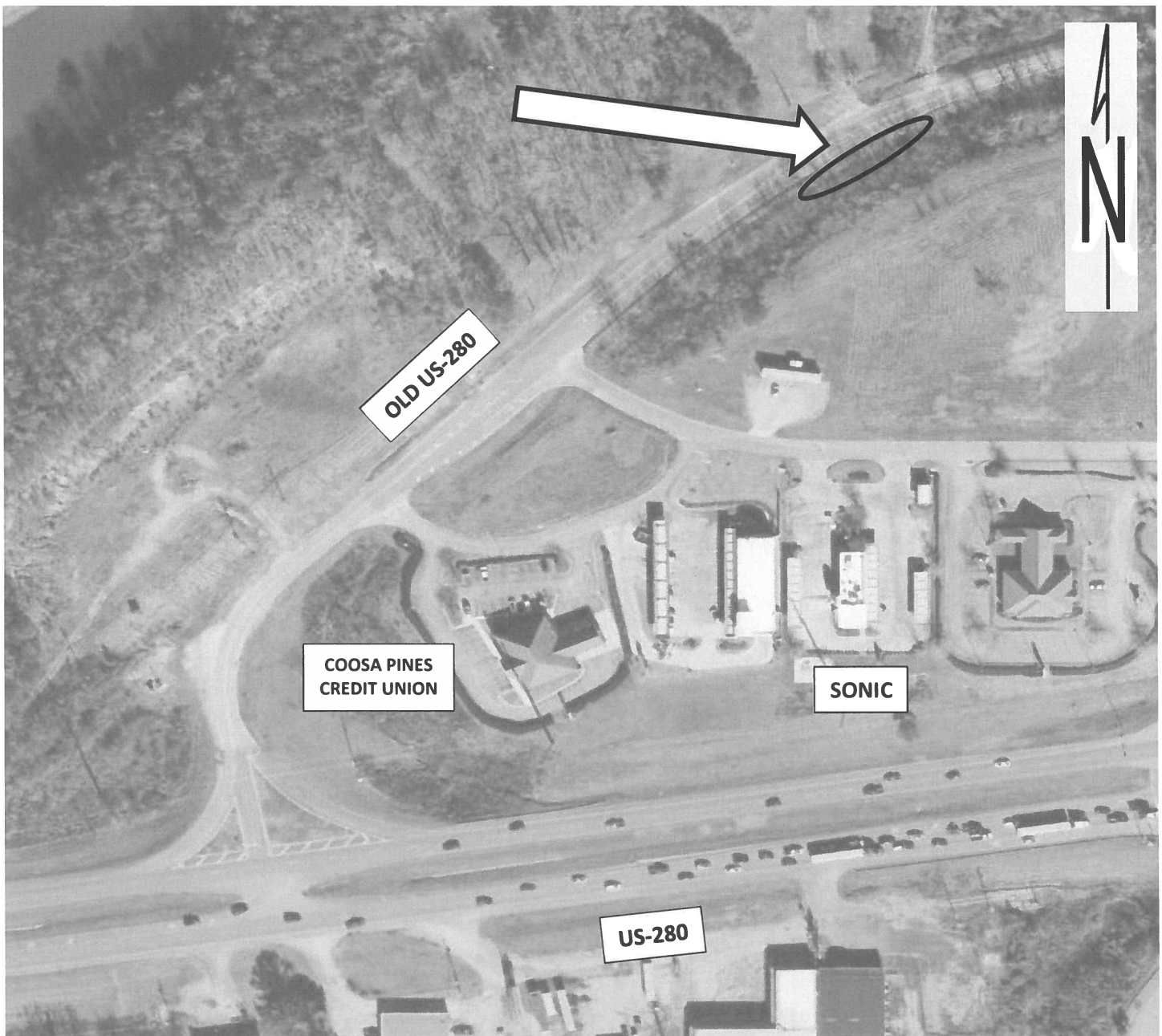
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SITE # 12

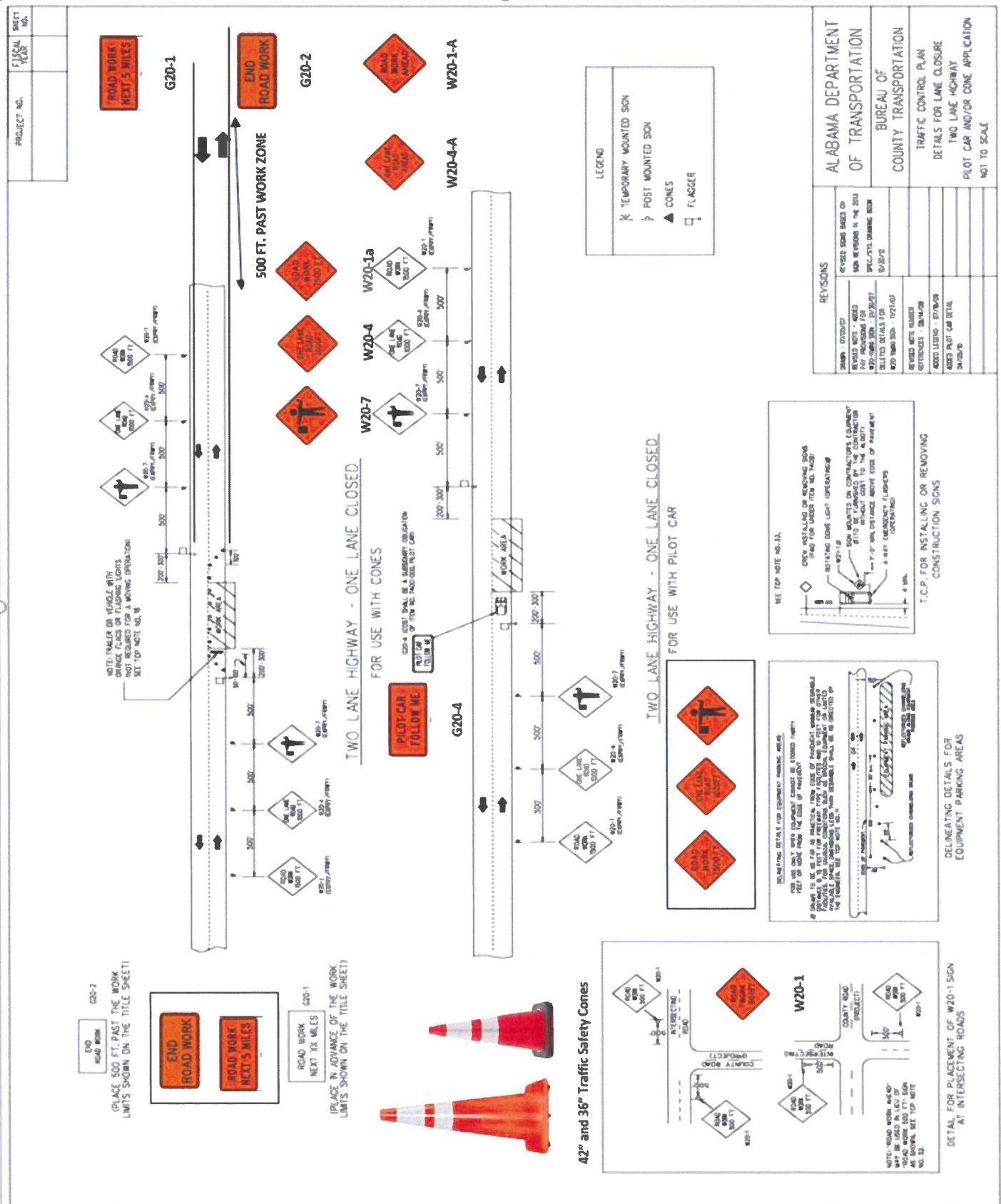
OLD 280 (CHELSEA)

BEHIND SONIC- OFF OF NEW US-280

ITEM= 100' LF GUARDRAIL

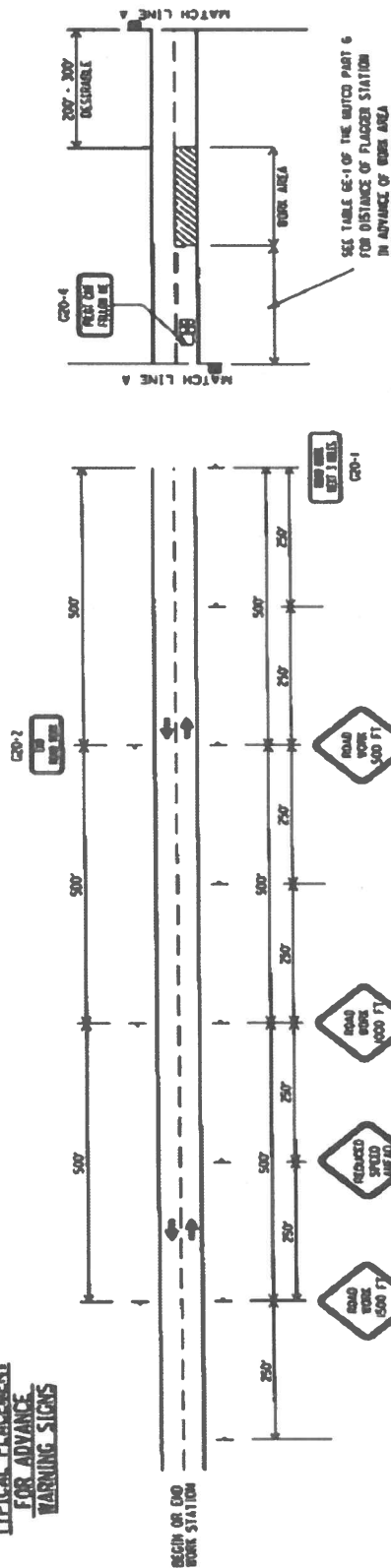


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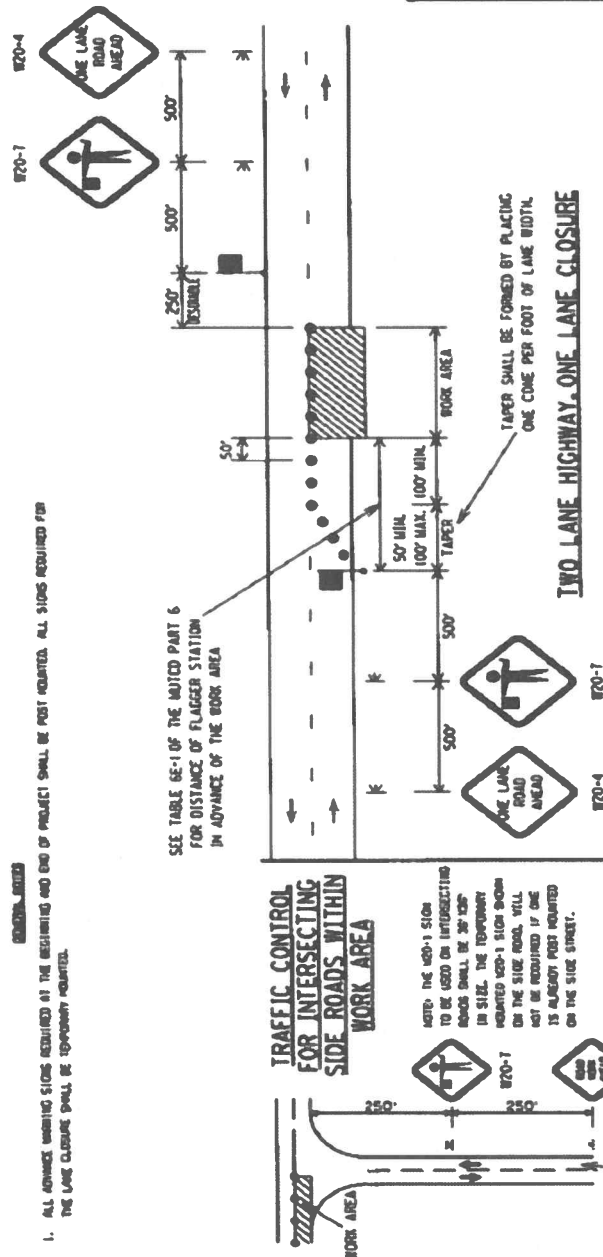
TEMPORARY TRAFFIC CONTROL PLAN SHEET

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS



REQUIRED SIGN SIZES	60" X 24"
C20-1	60" X 24"
C20-2	48" X 24"
R2-1	24" X 30"
R3-5b	48" X 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

- LEGEND**
- TEMPORARY MOUNTED SIGN
 - POST MOUNTED SIGN
 - DRUMS
 - FLAGGER
 - WORK AREA



- GENERAL NOTES**
- ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.

THE ABOVE STANDARD DRAWING IS FOR THE USE OF THE ALABAMA DEPARTMENT OF TRANSPORTATION. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE DRAWING TO THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE DRAWING TO THE PROJECT.

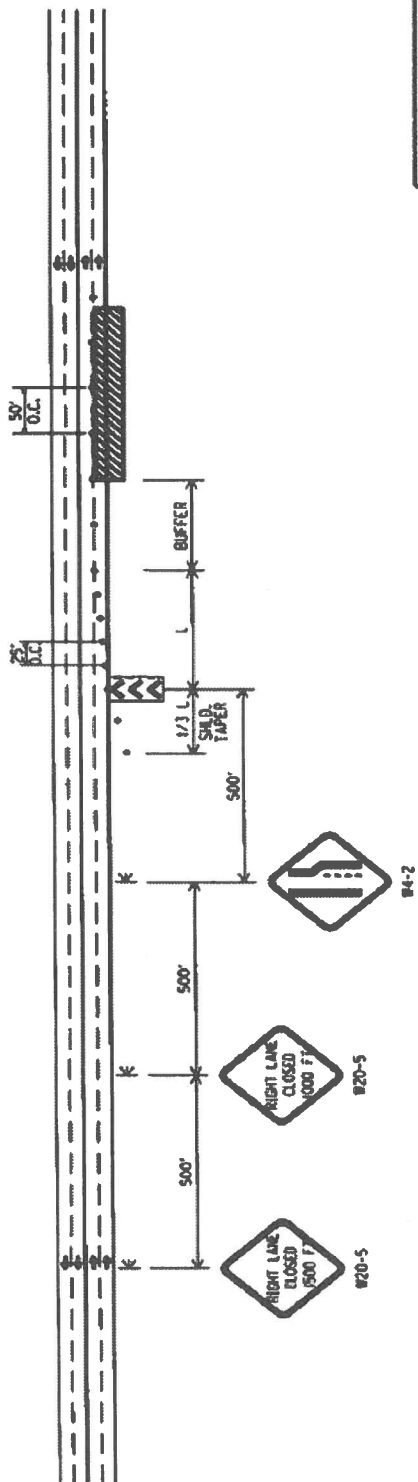
ALABAMA DEPARTMENT OF TRANSPORTATION
DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL
FOR TWO LANE HIGHWAYS

DATE: 08/12/2023
SHEET NO. 16-B
PROJECT NO. SCP-59-945-23
ROUTE 16-F

SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
SCP-59-945-23	2023	16-B	16-F

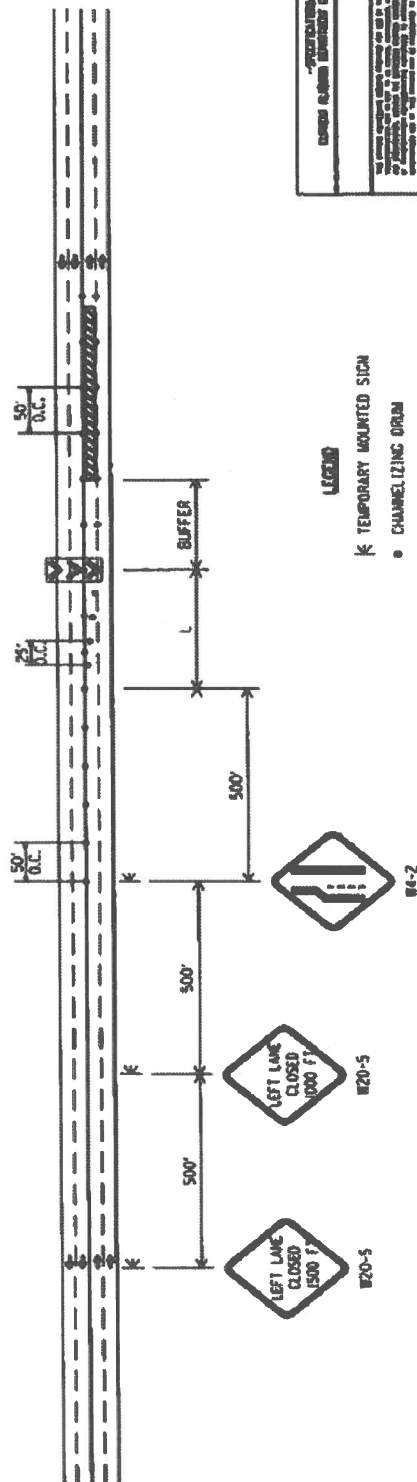
TEMPORARY TRAFFIC CONTROL PLAN SHEET

TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



REQUIRED SIGN SIZES	
W4-2	48" X 48"
W20-5	48" X 48"

TYPICAL SCHEME FOR INSIDE LANE CLOSURE



- LEGEND**
- TEMPORARY MOUNTED SIGN
 - CHANNELIZING DRUM
 - WORK AREA
 - PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT

GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN, UNLESS THE WORK PERIOD EXCEEDS FOUR (4) DAYS. IN SUCH CASES, THE SIGNS SHALL BE POST MOUNTED.

ALABAMA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROJECT NO. _____ SHEET NO. _____	
SPECIAL PROJECT DETAIL DATE: _____	
ROUTE: _____	

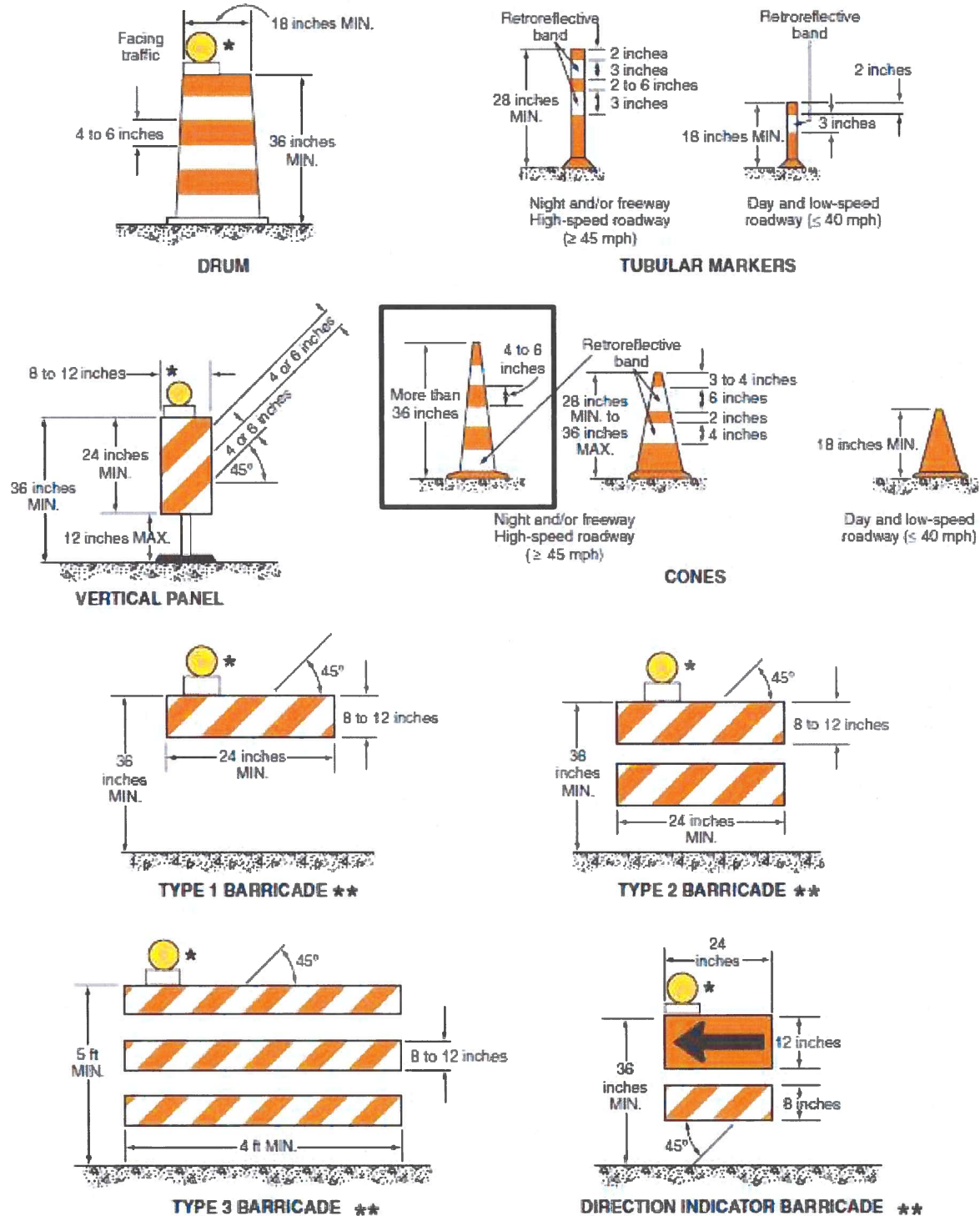
NOT TO SCALE

STATE	SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
AL	SCP-59-945-23	2023	16-C	16-F

STATE	SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
AL	SCP-59-945-23	2023	16-D	16-F

2009 Edition

Figure 6F-7. Channelizing Devices



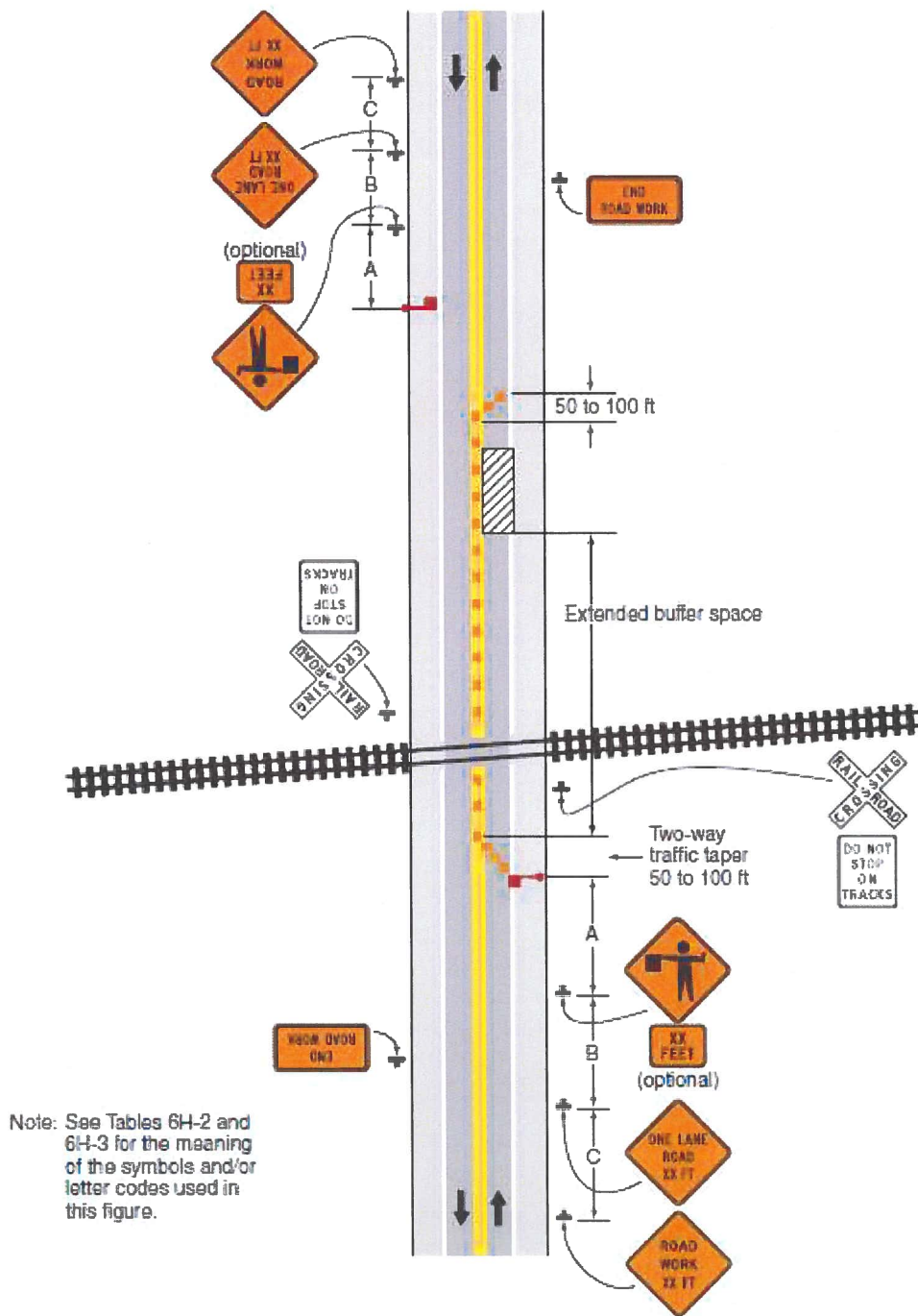
* Warning lights (optional)

** Rail stripe widths shall be 6 inches, except that 4-inch wide stripes may be used if rail lengths are less than 36 inches. The sides of barricades facing traffic shall have retroreflective rail faces.

STATE	SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
AL	SCP-59-945-23	2023	16-E	16-F

2009 Edition

Figure 6H-46. Work in the Vicinity of a Grade Crossing (TA-46)

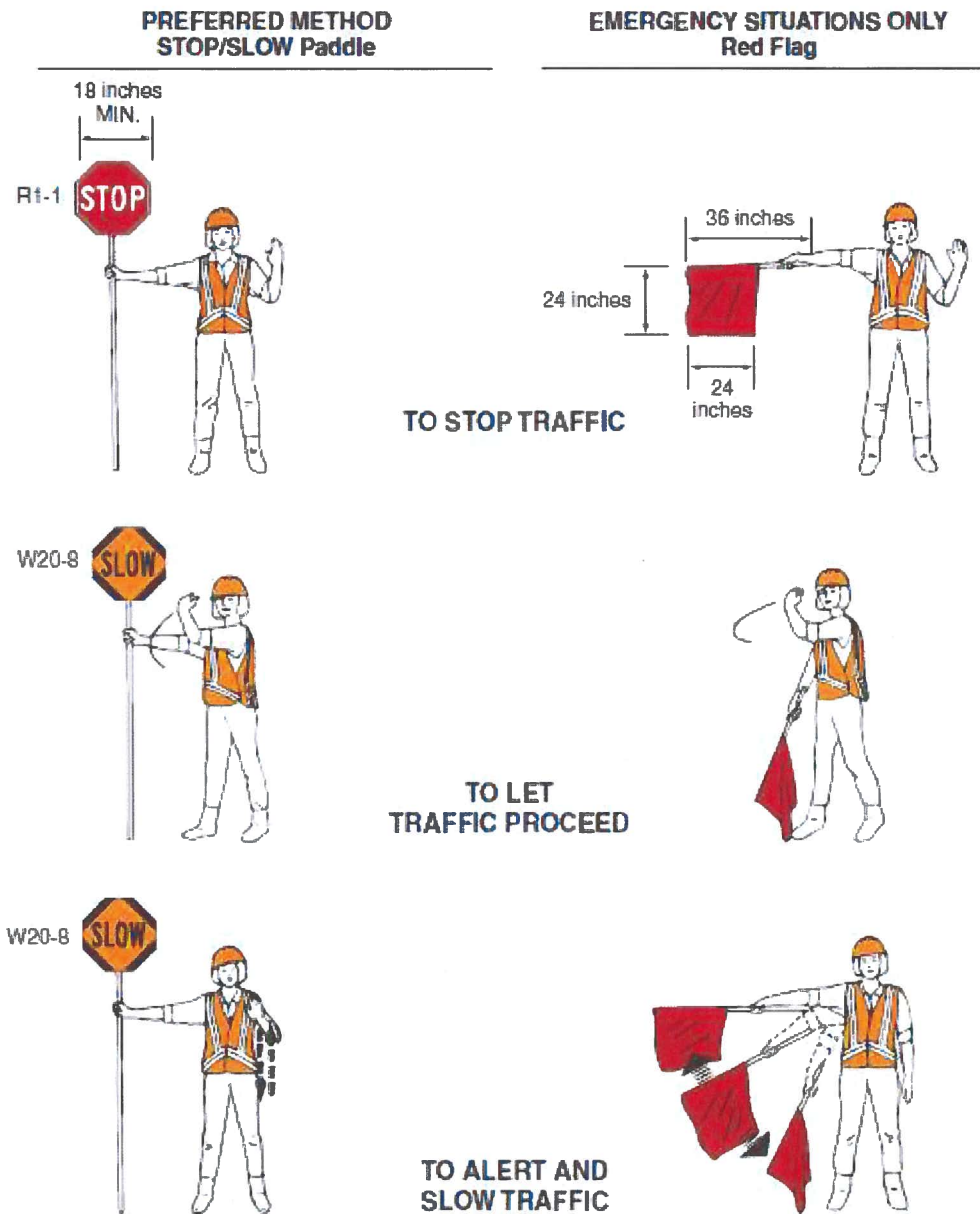


Typical Application 46

STATE	SHELBY COUNTY PROJECT NUMBER	FISCAL YEAR	SHEET NO.	LAST SHEET
AL	SCP-59-945-23	2023	16-F	16-F

2009 Edition

Figure 6E-3. Use of Hand-Signaling Devices by Flaggers



END OF CONSTRUCTION PLANS