CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number_____

Meeting Type: Regular

Meeting Date: 3/28/2013

Action Requested By:
Engineering

Agenda Item Type
Resolution

Subject Matter:

Municipal Resolution

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement with the Alabama Department of Transportation for Clearing and Grubbing and Fence Relocation for Zierdt Road from Martin Road to north of Madison Boulevard, Project No. STPHV-8507(600) & COH Project No. 65-06-RD01

Note: If amendment, please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what Council action will provide, allow
and accomplish and; any other information that might be helpful.

This Municipal Resolution between the State of Alabama and the City of Huntsville provides for the construction of the "Clearing, Grubbing, Utilities and New Security Fence Improvements" for the Project Number STPHV-8507(600), Widening of CR-7 (Zierdt Road) from South of CR-11 (Martin Road) to North of Madison Boulevard. No City Funds Involved.

Associated Cost:

Budgeted Item: Select...

MAYOR RECOMMENDS OR CONCURS: Select...

Department Head: _____

Date: 3/21/13

revised 3/12/2012

ROUTING SLIP
CONTRACTS AND AGREEMENTS

Originating Department: **Engineering** Council Meeting Date: **3/28/2013**

Department Contact: **Lynn Majors** Phone # **256-427-5201**

Contract or Agreement: **ALDOT Municipal Agreement**

Document Name: **Zierdt Road Widening Project No. 65-06-RD01 &** STPHV-8507(600)

City Obligation Amount: **N/A**

Total Project Budget: **N/A**

Uncommitted Account Balance: **N/A**

Account Number: **N/A**

Procurement Agreements

Not Applicable	Not Applicable

Grant-Funded Agreements

Select...	Grant Name:

Department	Signature	Date
1) Originating	Kathy Marsh	3/18/13
2) Legal	Mary Cates	3/19/13
3) Finance	[illegible]	3/20/13
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

RESOLUTION NO. 13-_____

WHEREAS, the City Council of the City of Huntsville (hereinafter at times referred to as Government Body) is desirous of having certain improvements made on CR-7 (Zierdt Road) within the City Limits of City of Huntsville, in accordance with plans prepared by the Alabama Department of Transportation and designated as Project STPHV-8507(600) & COH Project No. 65-06-RD01 and described as Widening of CR-7 (Zierdt Road) from CR-11 (Martin Road) to North of Madison Boulevard (Clearing and Grubbing, Utilities, and New Security Fence).

WHEREAS, the Alabama Department of Transportation of Alabama is now or may later be desirous of receiving Federal Aid for improvement of said highway; and

WHEREAS, the Federal Highway Administration, an agency of the United States of America, will not participate in any funding for the construction of said project until and unless the City will agree to certain requirements of the Federal Highway Administration. The City for the purpose of complying with requirements of the Federal Highway Administration in regard to its funding of improvements to the type and kind in this agreement provided for, does hereby pass and adopt the following resolution:

BE IT RESOLVED by the City Council of the City of Huntsville, that the plans of said project including alignment, profile, grades, typical sections and paving layouts as submitted to this City Council and which are now on file in the office of the City Clerk are hereby approved and that the location of said project as staked out by the Alabama Department of Transportation and as shown by said plans referred to are hereby approved and the Alabama Department of Transportation, in cooperation with the Federal Highway Administration, is hereby authorized to proceed with the grading, drainage, paving, and otherwise improving and construction of said project in accordance with said plans.

The City by and through its City Council hereby grants to the Alabama Department of Transportation the full use of and access to the dedicated widths of any existing streets for the construction of said project and hereby agrees to permit and allow the Alabama Department of Transportation to close and barricade the said project and intersecting streets for as long as necessary while the said project is being graded, drained, paved, and otherwise improved, and hereby agrees that the use of any street or highway for parking within an interchange area will not at any time be permitted.

The City hereby further agrees to adopt or pass such legally effective ordinances and/or laws as will permanently barricade and/or relocate certain intersecting streets as required by the State and to permanently deny or limit access at certain locations as required by the State along said improvements, all of which are most specifically stated as follows: See Plans: STPHV-8507(600) [Sheets 4-18]. Please refer to: Project Notes [Sheet 2A] - TCP Notes [Sheet 2B]. Please refer to: Traffic Control Plans [Sheets 43-45H]

BE IT FURTHER RESOLVED by the City Council, that for and in consideration of the Alabama Department of Transportation in cooperation with the Federal Highway Administration, constructing said highway and routing traffic along the same through the City over said project, such City hereby agrees with the Alabama Department of Transportation and for the benefit of the Federal Highway Administration, that on the above mentioned project the City will not in the future permit encroachments upon the right of way; nor will it pass any ordinances or laws fixing a speed limit contrary to those limits provided for in Title 32, Chapter 5, Code of Alabama 1975, as amended, and other laws of Alabama; nor will it permit other than parallel parking in areas where parking is permitted; nor will it allow the placing of any informational, regulatory, or warning signs, signals, median crossover, curb and pavement or other markings, and traffic signals without written approval of the Alabama Department of Transportation and the Federal Highway Administration, of the location, form and character of such installations. The traffic control devices and signs installed during construction, and those installed after completion of this project, shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices and accepted standards adopted by the Alabama Department of Transportation of the State of Alabama and by the Federal Highway Administration.

The City further agrees that subsequent traffic control devices deemed necessary by it in keeping with applicable statutes, rules and regulations to promote the safe and efficient utilization of the highway under the authority of Title 32, Chapter 5, Code of Alabama 1975, and all other applicable laws of Alabama, shall be subject to and must have the approval of the Alabama Department of Transportation of the State of Alabama and the Federal Highway Administration, prior to installation and the City further agrees that it will enforce traffic and control the same under the provisions of Title 32, Chapter 5, Code of Alabama 1975, and other applicable laws of Alabama.

BE IT FURTHER RESOLVED by this City Council:

1. That the City agrees to perform all maintenance on crossroads, service or frontage roads, service drives, or relocated roads that are not designated Federal or State highways that are in the jurisdiction of the City of Huntsville.

2. That the City agrees to perform all maintenance on any existing road which has been replaced by a new road; or, if the existing road is not used, the City has the option of vacating same.

3. That the City agrees to perform all maintenance on interchanges to the theoretical crossing of the denied access line.

4. That the City agrees to perform all maintenance on grade separations along the roadway to the end of the bridge, or the denied access fence, whichever the cause.

It is understood and agreed that no changes in this Resolution of Agreement shall in the future be made without having obtained the prior approval of the Federal Highway Administration.

ADOPTED on this the 28th day of March, 2013.

_____
President of the City Council
of the City of Huntsville,
Alabama

APPROVED on this the 28th day of March, 2013.

_____
Mayor of the City of Huntsville,
Alabama

I, the undersigned City Clerk of the City of Huntsville, Alabama, do hereby certify that the above and foregoing is a true copy of a resolution duly adopted by the City Council of the City of Huntsville, Alabama at its regular meeting held on the 28th day of March, 2013, which resolution is on file in the office of the City Clerk.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City on this the 28th day of March, 2013.

City Clerk-Treasurer
City of Huntsville, Alabama

STATE	REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.	LAST SHEET NO.
AL	STPHV-8507(600)	2013	1	65

CONTRACT ID NO.

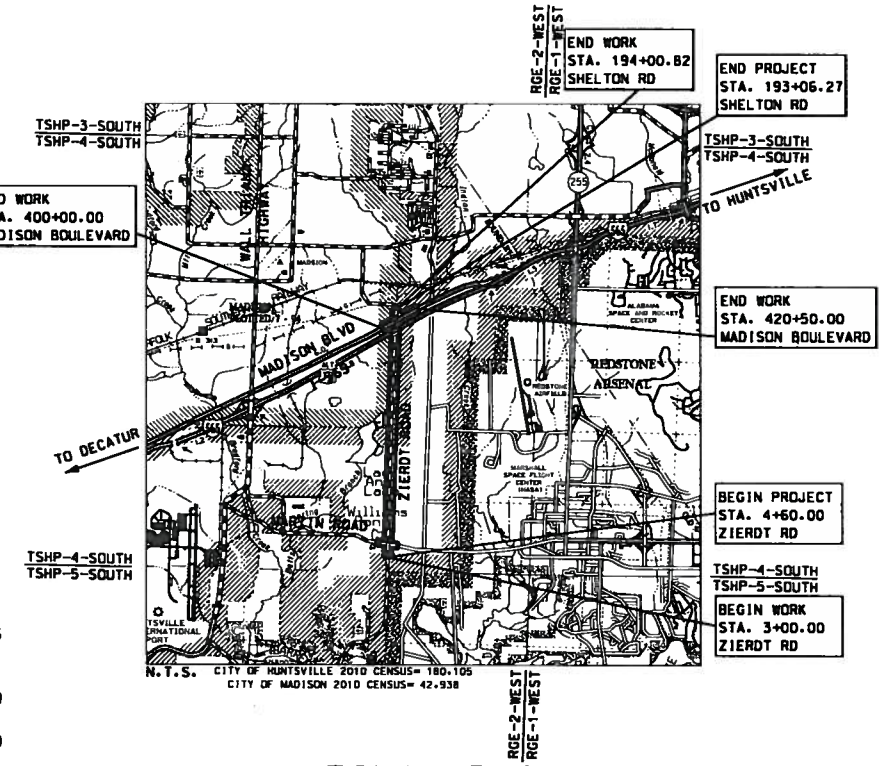
PRELIMINARY PROJECT NO.
CODE NO. 4303-STHVH-100044900-2

ALABAMA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER
STPHV-8507(600)
WIDENING CR-7 (ZIERDT ROAD)
FROM SOUTH OF CR-11 (MARTIN ROAD) TO
NORTH OF MADISON BOULEVARD
CLEARING, GRUBBING, UTILITIES, AND NEW SECURITY FENCE
MADISON COUNTY

DESIGN DESIGNATION	
ADT (2013)	18470
ADT (2033)	22345
K	10%
D	55%
TDHV	2%
TADT	3%
V (DESIGN SPEED)	45 MPH
MIN. STOPPING SIGHT DIST.	360 FT.

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2012 EDITION.



EXISTING BRIDGE CULVERTS
N/A
REQUIRED BRIDGE CULVERTS
N/A
EQUATIONS AND EXCEPTIONS
N/A

	FEET	MILES
Total Stationing of Project	18846.27	
Equations & Exceptions	0.00	
Net Length of Project	18846.27	3.569
Net Length of Bridges	0.00	
Net Length of Roadways	18846.27	3.569

FINAL BACK CHECK SUBMITTAL
01-08-2013

ALABAMA DEPARTMENT OF TRANSPORTATION
Submitted for Approval

DIVISION ENGINEER

CHIEF ENGINEER
Approved

TRANSPORTATION DIRECTOR

PREPARED BY:
GARVER, LLC

REGISTERED PROFESSIONAL ENGINEER
STATE OF ALABAMA
DATE:

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1A

INDEX TO SHEETS
PROJECT NO. STPHV-8507(600)
MADISON COUNTY

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	INDEX TO PLAN SHEETS
1B	STANDARD DRAWINGS SHEET
1C	OMIT
1-D THRU 1E	PLANS LEGEND SHEET AND PLANS ABBREVIATION SHEET
1F	OMIT
1G THRU 1L	GEOMETRIC LAYOUT SHEETS
2	TYPICAL SECTIONS
2A	PROJECT NOTES SHEET
2B	TRAFFIC CONTROL PROJECT NOTES
3 THRU 3B	SUMMARY OF QUANTITIES
4	PLAN SHEET STA 10+00 TO STA 15+00 ZIEROT ROAD
5	PLAN SHEET STA 15+00 TO STA 30+00 ZIEROT ROAD
6	PLAN SHEET STA 30+00 TO STA 45+00 ZIERDT ROAD
7	PLAN SHEET STA 45+00 TO STA 60+00 ZIEROT ROAD
8	PLAN SHEET STA 60+00 TO STA 75+00 ZIEROT ROAD
9	PLAN SHEET STA 75+00 TO STA 90+00 ZIERDT ROAD
10	PLAN SHEET STA 90+00 TO STA 105+00 ZIEROT ROAD
11	PLAN SHEET STA 105+00 TO STA 120+00 ZIEROT ROAD
12	PLAN SHEET STA 20+00 TO STA 135+00 ZIEROT ROAD
13	PLAN SHEET STA 135+00 TO STA 150+00 ZIEROT ROAD
14	PLAN SHEET STA 150+00 TO STA 165+00 ZIEROT ROAD
15	PLAN SHEET STA 165+00 TO STA 180+00 ZIEROT ROAD
16	PLAN SHEET STA 180+00 TO STA 194+00 ZIEROT ROAD
17	PLAN SHEET STA 160+00 TO STA 175+00 MARTIN ROAD
18	PLAN SHEET STA 175+00 TO STA 189+20 MARTIN ROAD
19	OMIT
20	OMIT
21	OMIT
22	OMIT
23-37	UTILITY SHEETS
38	OMIT
39-40	DRAINAGE CROSS SECTIONS
41	SPECIAL PROJECT DETAIL - REINFORCED CONCRETE BOX CULVERT OPENING DOUBLE 8' X4'
41A	SPECIAL PROJECT DETAIL - REINFORCED CONCRETE BOX CULVERT WINGS OPENING 4' HEIGHT ,3: 1 SLOPE
41B	SPECIAL PROJECT DETAIL - DETAIL OF RIPRAP ENERGY BASIN (DRAINAGE STRUCTURE #4)
41C	SPECIAL PROJECT DETAIL - DATA FOR RIPRAP ENERGY BASIN (DRAINAGE STRUCTURE #4)
42	OMIT
43 THRU 43B	SEQUENCE OF CONSTRUCTION, QUANTITIES AND TYPICAL SECTIONS
44 THRU 44B	TRAFFIC CONTROL DETAILS
45 THRU 45H	TRAFFIC CONTROL PLAN SHEETS
46	OMIT
47	OMIT
48-57	EROSION AND SEDIMENT CONTROL SHEETS
58	OMIT
59	OMIT
60	SOIL BORINGS (TO BE ADDED)
61	OMIT
62	OMIT
63 THRU 63L	SPECIAL PROJECT DETAILS - RSA SECURITY FENCE DETAILS
64	OMIT
65	EARTHWORK SUMMARY SHEET

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				INDEX TO SHEETS	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1B

INDEX TO SPECIAL AND STANDARD DRAWINGS

THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWING BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2013, WHICH APPLY TO THIS PROJECT:

INDEX NO.	DRAWING NUMBER	DESCRIPTION
215	IF-635	FENCE ARRANGEMENT DETAILS
408	FE-619 (SHEET 1 OF 2)	DETAIL OF CONCRETE FLARED END SECTION W/GRATE FOR CONCRETE AND METAL PIPE
409	FE-619 (SHEET 2 OF 2)	DETAIL OF CONCRETE FLARED END SECTION W/GRATE FOR CONCRETE AND METAL PIPE
411	HW-614-B (PC) (SHEET 1 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE
412	HW-614-B (PC) (SHEET 2 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE
413	HW-614-B (SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAIL FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
414	HW-614-B (SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAIL FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
447	RPC-530 (SHEET 1 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (AND H.D.P.E. PIPE)
448	RPC-530 (SHEET 2 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS
511	MH-621-1	MANHOLE MODIFICATION DETAILS FOR INCREASSING OR REDUCING HEIGHTS OF EXISTING MANHOLES
801	DN-2 NOTES	STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES
1045	TCD-100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES
1145	SS-654	SOD TERRACE OUTLETS AND SOD FLUMES
1160	ESC-100 (SHEET 1 OF 2)	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
1160-A	ESC-100 (SHEET 2 OF 2)	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
1161	ESC-200 (SHEET 1 OF 4)	TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS
1161-A	ESC-200 (SHEET 2 OF 4)	DETAILS OF TEMPORARY SLOPE DRAIN, BERMS AND ENERGY DISSIPATOR
1161-B	ESC-200 (SHEET 3 OF 4)	DETAILS OF SEDIMENT BARRIER APPLICATIONS
1161-C	ESC-200 (SHEET 4 OF 4)	DETAILS OF SILT FENCE INSTALLATION
1162	ESC-300 (SHEET 1 OF 7)	DITCH CHECK STRUCTURES, TYPICAL APPLICATION AND DETAILS
1162-A	ESC-300 (SHEET 2 OF 7)	TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES, SILT FENCE AND HAY BALE DITCH CHECKS
1162-B	ESC-300 (SHEET 3 OF 7)	DETAILS OF EROSION CONTROL SANDBAG DITCH CHECK
1162-C	ESC-300 (SHEET 4 OF 7)	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
1162-D	ESC-300 (SHEET 5 OF 7)	DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK
1162-E	ESC-300 (SHEET 6 OF 7)	ROCK DITCH CHECK
1162-F	ESC-300 (SHEET 7 OF 7)	ROCK DITCH CHECK WITH SUMP EXCAVATION
1163	ESC-400 (SHEET 1 OF 5)	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
1163-A	ESC-400 (SHEET 2 OF 5)	INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS
1163-B	ESC-400 (SHEET 3 OF 5)	INLET PROTECTION DETAILS OF WATTLES
1163-C	ESC-400 (SHEET 4 OF 5)	INLET PROTECTION DETAILS OF MANUFACTURED INLET PROTECTION DEVICE
1163-D	ESC-400 (SHEET 5 OF 5)	INLET PROTECTION DETAILS OF SAND BAG
1169	ESC-506 (SHEET 1 OF 2)	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
1169-A	ESC-506 (SHEET 2 OF 2)	SUSPENDED PIPE DIVERSION (UPSTREAM)
1214	IHS-710-12	DETAILS OF ROADWAY SIGN POST (SMALL CHANNEL AND TUBULAR SECTION)
1225	IHS-710-21	DETAIL FOR LOCATION AND MOUNTING STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS
1229	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
1309	SHS-9	STANDARD HIGHWAY SIGNS
1325	SHS-25	STANDARD HIGHWAY SIGNS
1327	SHS-27	STANDARD HIGHWAY SIGNS
1328	SHS-28	STANDARD HIGHWAY SIGNS
1329	SHS-29	STANDARD HIGHWAY SIGNS
1509	CS-3-1	STANDARD GENERAL NOTES AND MISCELLANEOUS DETAILS
1515	CX	STANDARD TYPICAL DETIALS ADDITIONS TO WINGS AND CURBS
1523	S-C-1	STANDARD TYPICAL DETAILS SKEWED STAGE CONSTRUCTION REINF. CONCRETE BOX CULVERT CONSTRUCTION JOINTS

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				STANDARD DRAWINGS	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1-D

PLANS LEGEND SHEET

ROADWAY

55+00

CENTER LINE
STATE BOUNDARY LINE
COUNTY BOUNDARY LINE
CITY OR TOWN LIMITS
SECTION LINES — SEC 22 / SEC 23
QUARTER-SECTION LINES
RANGE-TOWNSHIP LINES — R-17-E / R-18-E
PROPERTY LINES — PL
PRESENT ROW
ACQUIRED ROW
DENIED ACCESS
REQUIRED FENCE
CONSTRUCTION LIMITS — CONST LIM
CLEARING LIMITS
RAILROAD
EXISTING WOOD FENCE
EXISTING BARBED WIRE FENCE
EXISTING CHAIN LINK FENCE
EXISTING ELECTRIC FENCE
EXISTING HOG WIRE FENCE
TREES
WOODS LINE
MARSH
EXISTING DITCH
REQUIRED DITCH
GRAVEL ROAD
EXISTING GUARDRAIL
REQUIRED GUARDRAIL
SATELLITE DISH
TRAFFIC LIGHT
BENCH MARK
SURVEY POINT
ENVIRONMENTAL CLEARED LIMITS — ENV

EXISTING PIPE
REQUIRED PIPE (WITH PIPE END TREATMENT)
REQUIRED PIPE END TREATMENT
EXISTING BOX CULVERT
REQUIRED BOX CULVERT
EXTENDED CULVERT
DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION)
BRIDGE
PIPE CULVERT (ELEVATION VIEW) — FL=410.25
BOX CULVERT (ELEVATION VIEW) — FL=420.55

DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.

8/88 — REQD 18" RCP — 9/88

ROADWAY PIPE EXAMPLE

ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.

SD/4 — REQD 18"

SIDE DRAIN PIPE EXAMPLE

DIRECTION OF FLOW

UTILITIES

	EXISTING	PROPOSED
POWER POLE		
LIGHT POLE		
TELEPHONE POLE		
ANCHOR		
STUB (POWER)		
STUB (TELEPHONE)		
ELECTRIC DUCT	EL 4MTD	EL 4MTD
BURIED ELECTRIC CABLE	BE	BE
OVERHEAD ELECTRIC CABLE	OE	OE
ELECTRIC MANHOLE	E	E
TOWER		
TELEPHONE PEDESTAL	T	T
TELEPHONE DUCT	TP 4MTD	TP 4MTD
BURIED TELEPHONE CABLE	BTC	BTC
OVERHEAD TELEPHONE CABLE	OTC	OTC
TELEPHONE MANHOLE	TM	TM
SANITARY SEWER	S	SS
WATER LINE	W	W
WATER MAIN	WM	WM
WATER VALVE		
FIRE HYDRANT		
WATER METER		
GAS LINE	G	G
GAS MAIN	GM	GM
GAS VALVE		
GAS REGULATOR		
BURIED CABLE TELEVISION	BTV	BTV
OVERHEAD CABLE TELEVISION	OTV	OTV

EXISTING PAVEMENT (RETAIN)
EXISTING PAVEMENT (REMOVE)
EXISTING PAVEMENT (RETAIN AND OVERLAY)
CONCRETE (EXISTING OR REQUIRED)
EXISTING CONCRETE (REMOVE)
RIP RAP (EXISTING OR REQUIRED)

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLANS LEGEND SHEET	ZIERDT ROAD

PLANS LEGEND SHEET ABBREVIATIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1E

ABANDON(ED)	ABAN
ABUTMENT	ABUT
ACCELERATION	ACCL
ACQUIRED	ACQD
ACRE	AC
AHEAD	AH
ALABAMA	AL
ALABAMA DEPARTMENT OF TRANSPORTATION	ALDOT
ALTERNATE	ALT
APPROX(IMATE(LY)	APP
AREA	A
ASPHALT	ASP
AVERAGE ANNUAL DAILY TRAFFIC	AADT
BACK	BK
BACK OF GUARDRAIL	BK-GR
BACKSIGHT	BS
BARBED WIRE	B/W
BARREL	BBL
BARRIER	BAR
BASE LINE	BL or ℄
BEARING	BRNG
BEGIN	BEG
BEGINNING OF PROJECT	BOP
BETWEEN	BTW
BILLBOARD	BBD
BENCH MARK	BM
BITUMINOUS	BIT
BITUMINOUS COATED CORRUGATED METAL PIPE	BCCMP
BOUNDARY	BDY
BRIDGE	BRG
BRIDGE END SLAB	BES
CAPACITY	CAPY
CAST IRON	CI
CAST IN PLACE	CIP
CATCH BASIN	CB
CENTER LINE	℄
CHAIN LINK	C/L
CLASS	CLS
CONCRETE	CONC
CONNECTION	CONN
CONSTRUCTION LIMITS	CONST LIM
CORNER	COR
CORRECTION	CORR
CORRUGATED IRON	CORI
CORRUGATED METAL	CM
CORRUGATED METAL PIPE	CMP
CORRUGATED PLASTIC PIPE	CPP
COUNTY	CO
COUNTY ROAD	CO-RD
CREEK	CK
CROSS SECTION	X-SECT
CROWN REMOVED	CR
CUBIC FEET	FT3 or CU FT
CUBIC FEET PER SECOND	CFS
CUBIC YARD	YD3 or CU YD
CUBIC METERS	M3
CULVERT	CULV
CULTIVATED	CULT
CURB FACE	CF
CURB AND GUTTER	C&G
CUT	C
CURVE TO SPIRAL	CS
DECELERATION	DECEL
DECLINATION	DECL
DEGREE OF CURVE	D
DENIED ACCESS	D/A
DEPARTURE	DEP
DIAMETER	DIA
DIRECTION	DIR
DISTANCE	DIST
DOUBLE	DBL
DOUBLE BARREL CULVERT	CD
DRAINAGE AREA	DA
DRIVE	DR
DROP INLET	DI
EACH	EA
EASEMENT	ESMT
EAST	E
EAST BOUND ROADWAY	EBR
EDGE OF PAVEMENT	EP
ELEVATION	EL or ELEV
END OF RETURN	ER
END ANCHOR	E/A
END OF PROJECT	EOP
EQUATION	EQ
EROSION CONTROL PRODUCTS	ECP
EXCAVATION	EXCAV
EXISTING	EX
EXPANSION	EXP
EXTENSION	EXT
EXTERNAL	E
EXTRA STRENGTH	EXT STR
FEET	FT
FILL	F
FILTER BLANKET	FLT BLNK
FINISHED GRADE	FG
FINISHED SURFACE	FS
FISCAL YEAR	FY
FIXED	FIX
FLAT BOTTOM	FB
FLOW LINE	FL or ℄

FORESIGHT OR FRONTSIGHT	FST
FRACTIONAL	FRAC
FULL SUPERELEVATION	FS
GALLON	GAL
GASOLINE PUMPS	GPP
GARAGE	GAR
GAUGE	GA
GIRDER	GDR
GOVERNMENT	GOV
GRASS	GRS
GRADE CHANGE	GC
GRADE POINT	GP
GRADE ROD	GRD
GRAVEL	GRV
GUARDRAIL	GR
HEADWALL	HDWL
HECTARE	HA
HIGH WATER MARK	HWM
HEIGHT	HT
HEIGHT OF INSTRUMENT	HI
HIGH WATER	HW
HIGHWAY	HWY
HOGWIRE	H/W
HORIZONTAL	HOR
HUB & TACK	H&T
HYDRANT	HYD
IMPACT ATTENUATOR	IA
IN ACCORDANCE WITH	I/A/W
IN PLACE	IN-PL
INCHES	IN
INCLUDING	INCL
INCORPORATED	INC
INSTRUMENT	INST
ISLAND	ISL
JOINT	JT
JUNCTION	JCT
JUNCTION BOX	JB
KILOMETER	KM
KILOMETER POST	KMP
KILOMETERS PER HOUR	KPH
LANE	LN
LATITUDE	LAT
LEFT	LT
LEFT AHEAD	LA
LEFT BACK	LB
LENGTH OF CURVE	L
LINK	LK
LIMIT	LIM
LINEAR	LIN
LINEAR FEET	LIN FT
LONGITUDE	LONG
MANHOLE	MH
MARKER	MRK
MAXIMUM	MAX
MEAN HIGH WATER	MHW
MEAN LOW WATER	MLW
MEASUREMENT	MEAS
MEDIAN	MED
METER	M
MERIDIAN	MER
MILE POST	MP
MILES	MI
MILES PER HOUR	MPH
MILLIMETER	MM
MINIMUM	MIN
MONUMENT	MON
MULTIPLE	MULT
NORMAL	NORM
NORMAL CROWN	NC
NORMAL CROWN SLOPE	NCS
NORTH	N
NORTH BOUND ROADWAY	NBR
NORTHING-EASTING	NE
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO
OBSERVATION	OBS
ON CENTER	OC
ORIGINAL	ORIG
OVERHEAD	OHD
OVERHAUL	OH
OUT TO OUT	OO
PAINT	PNT
PAVED	PVD
PAVED SHOULDER	PVD SH
PAVEMENT	PVMT
PIPE END TREATMENT	PET
PIPE ENTERING CULVERT	PEC
PLATE GIRDER	PL GDR
POINT OF BEGINNING	POB
POINT OF COMPOUND CURVE	PCC
POINT OF CURVATURE	PC
POINT OF REVERSE CURVATURE	PRC
POINT OF ENDING	POE
POINT OF INTERSECTION	PI
POINT OF TANGENCY	PT
POINT ON CURVE	POC
POUND	LB
PRESENT	PRES
PROFILE GRADE	PG

PROJECT	PROJ
PROJECT CONTROL	PJC
PROPERTY LINE	ℙ
PROPOSED	PROP
QUADRUPLE	QUAD
QUADRUPLE BARREL CULVERT	CQ
QUANTITY	QUANT
RADIUS	R
RAILROAD	RR
RANGE	RGE
RECORD	REC
REDUCTION	RED
REFERENCE	REF
REFERENCE POINT	RP
REFERENCE POINT FOR POINT ON TANGENT	RPPOT
REINFORCED	REINF
REINFORCED CONCRETE	RC
REINFORCED CONCRETE DECK GIRDER	RCDG
REINFORCED CONCRETE PIPE	RCP
REINFORCING STEEL	REINF STL
RELOCATE	RELC
REMOVE	REM
REQUIRED	REQD
RETAINING	RET
REVERSE CROWN	RC
REVISION	REV
RIGHT	RT
RIGHT AHEAD	RA
RIGHT BACK	RB
RIGHT OF WAY	ROW
RIGHT OF WAY MARKER	ROWM
RIVER	RIV
ROAD	RD
ROADWAY	ROWY
SECTION	SEC
SERVICE ROAD	SER RD
SHEET	SHT
SHEET PILING	SHT PILE
SHOULDER	SHLD
SIDE DRAIN	SD
SIDEWALK	SW
SIGHT DISTANCE	S DIST
SINGLE BARREL CULVERT	CS
SKEW	SK
SLOPE STAKE	SST
SOLID SODDING	SOL SOD
SOUTH	S
SOUTH BOUND ROADWAY	SBR
SPECIAL	SP
SPECIAL DITCH	SP-DT
SPECIAL DITCH LEFT	SDL
SPECIAL DITCH MEDIAN	SDM
SPECIAL DITCH RIGHT	SDR
SPECIAL DRAWING	SP-DWG
SPECIFICATIONS	SPEC
SPRING LINE	SL
SPIRAL TO CURVE	SC
SPIRAL POINT OF INTERSECTION	SPI
SPIRAL TO TANGENT	ST
SQUARE	SQ
SQUARE FEET	FT2 or SQ FT
SQUARE METERS	M2
SQUARE YARD	YD2 or SQ YD
STAKE	STK
STANDARD	STD
STANDARD DRAWING	STD DWG
STANDARD STRENGTH	STD STR
STATION	STA
STATION & ELEVATION	S/E
STATION & OFFSET	SO
STOPPING SIGHT DISTANCE	SSD
STREET	ST
STRUCTURE	STR
SUB-GRADE	SG
SUPERELEVATION	SE se or e
SURVEY	SRV
SYMMETRICAL	SYM
TANGENT	TAN
TANGENT LENGTH (CURVE DATA)	T
TANGENT TO SPIRAL	TS
TEMPORARY	TEMP
TEMPORARY BENCH MARK	TBM
THROAT	TH
TOWNSHIP	TSHP
TRIPLE	TR
TRIPLE BARREL CULVERT	CT
TURN OUT	TO
TURNING POINT	TP
TYPE	TY
UNIT	U
UNKNOWN	UNK
UNPAVED	UNPVD
VALLEY GUTTER	VG
VARIABLE	VAR
VERTICAL	VERT
VERTICAL CURVE	VC
VERTICAL POINT OF CURVATURE	PVC
VERTICAL POINT OF INTERSECTION	PVI
VERTICAL POINT OF TANGENCY	PVT
VITRIFIED	VIT

VOLUME	VOL
WEST	W
WEST BOUND ROADWAY	WBR
WING WALL	WW
WITNESS CORNER	WC
WOOD	WD
WORKING POINT	WP
WOVEN WIRE	W/W
YARD	YD

STRUCTURES

NUMBER OF STORIES	1, 2, 3, 4
FRAME	FR
BUILDING	BLDG
BLOCK	BLK
BRICK	BR
STUCCO	STU
METAL	MET
RESIDENCE	RES
BUSINESS	BUS
WAREHOUSE	WHSE
CHICKEN HOUSE	CH HSE
CHURCH	CH
SCHOOL	SCH
DOUBLE WIDE MOBILE HOME	DW MH
MOBILE HOME	MH

UTILITIES

ANCHOR WIRE	AW
BURIED ELECTRIC	BE
BURIED FIBER OPTIC	BFO
BURIED TELEPHONE CABLE	BTC
BURIED CABLE TELEVISION	BTV
CAST IRON	CI
CIRCUIT	CKT
DUCTILE IRON	DUC IRON
EASEMENT	ESMT
FIBER OPTIC	FO
FIRE HYDRANT	FH
FORCED MAIN (SANITARY SEWER)	FM
GAS MAIN	GM
GAS METER	GMET
GAS VALVE	GV
GUY WIRE	GUY
HIGH PRESSURE	HP
KILOVOLT AMPS	KVA
MANHOLE	MH
MERCURY VAPOR LIGHT	MVL
OVERHEAD FIBER OPTIC	OFO
OVERHEAD TELEPHONE CABLE	OTC
OVERHEAD ELECTRIC CABLE	OE
OVERHEAD CABLE TELEVISION	OTV
PAIR	PR
PEDESTAL	PED
POLY-VINYL CHLORIDE PIPE	PVC
POWER POLE	PP
SANITARY SEWER	SS
SERVICE	SERV
STEEL	STL
STORM DRAIN	STM
STORM SEWER	STMS
SWITCH	SW
TELEPHONE	TEL
TELEPHONE MANHOLE	TMH
TRANSFORMER	TRAN
TRANSMISSION LINE	TR LN
TRIAXIAL CABLE (SERVICE)	TRIX
VITRIFIED CLAY PIPE	VCP
WATER MAIN	WM
WATER METER	WMET
WATER VALVE	WV

PROPERTY

DEED BOOK	DB
REAL PROPERTY BOOK	RP
PLAT BOOK	PB
MAP BOOK	MB
PAGE	PG
OFFICIAL RECORD	OR
CAPPED (TYPICAL PLASTIC SURVEYORS CAP)	CAP
ALUMINUM CAP	ALUM CAP
BRASS CAP	BR CAP
IRON PIPE	IP
CRIMPED	CR
REINFORCING STEEL	REBAR
CONCRETE MONUMENT	CM
DAMAGED	DAM
CHISELED X	CH'X'
HUB AND TACK	H&T
NAIL AND BOTTLE TOP	N&BT
PARKER-KALON (MASONARY NAILS)	PK NAIL
FENCE POST	F POST
RAILROAD IRON	RR IRON
COTTON SPINDLE	COT SP
ANGLE IRON	ANGLE IRON

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

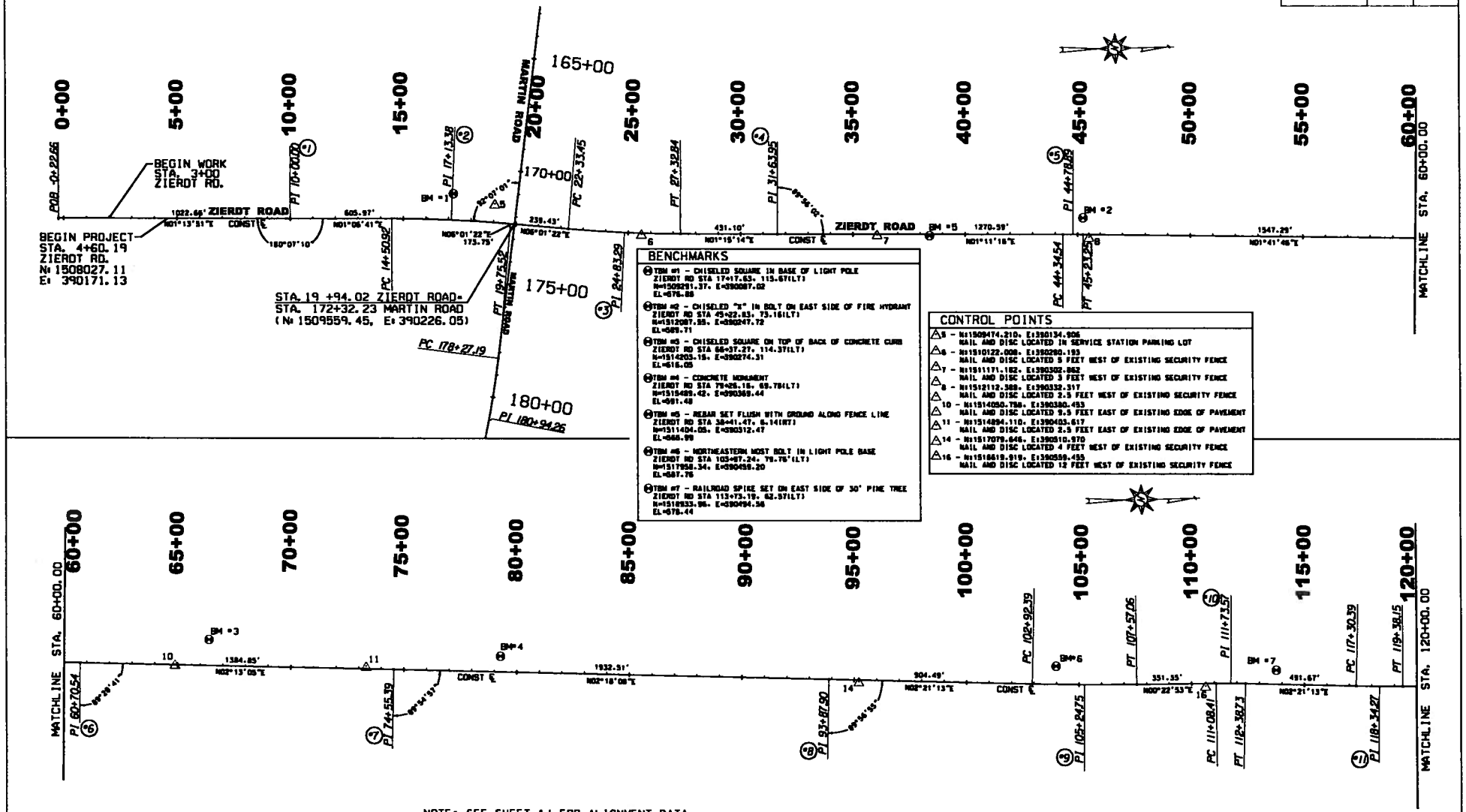
ALABAMA DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

SHEET TITLE	ROUTE
PLANS LEGEND SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	1G

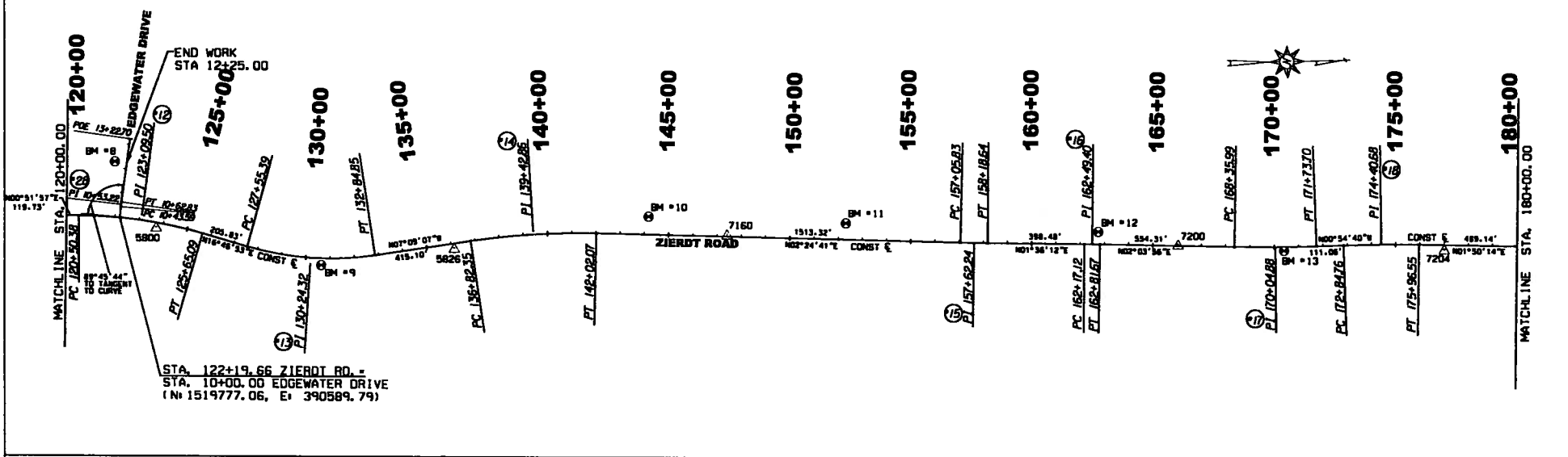


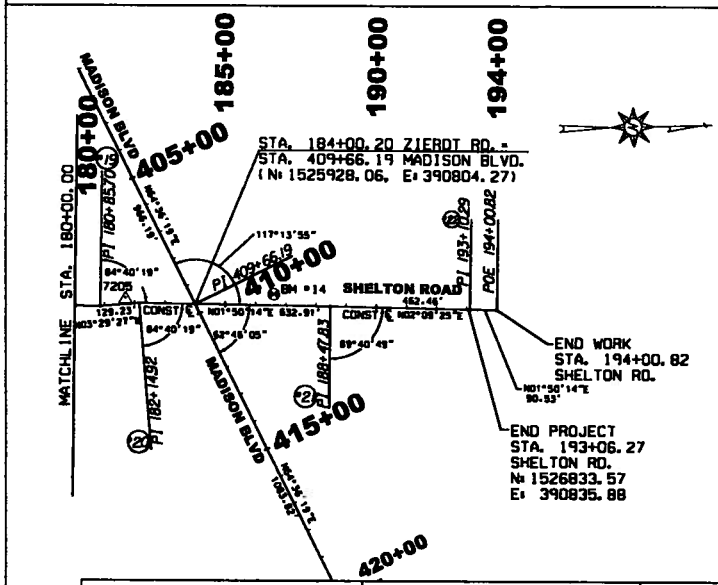
NOTE: SEE SHEET 1J FOR ALIGNMENT DATA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 200 0 200 400 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1H





BENCHMARKS

- TBM #8 - CHISELED SQUARE IN SE CORNER OF SINGLE WING CURB INLET ZIERDT RD STA 121+64.38. 226.11'(LT) N=1519762.20. E=390361.09 EL=681.86
- TBM #9 - PK NAIL AND WASHER SET IN CONCRETE BASE OF FENCE POST ZIERDT RD STA 130+64.66. 27.68'(RT) N=1520588.90. E=390797.76 EL=686.23
- TBM #10 - CHISELED SQUARE IN N EDGE OF DOUBLE WING CURB INLET ZIERDT RD STA 144+16.43. 73.12'(LT) N=1521949.82. E=390821.91 EL=690.57
- TBM #11 - CHISELED SQUARE IN N EDGE OF DOUBLE WING CURB INLET ZIERDT RD STA 152+29.33. 65.57'(LT) N=1522751.68. E=390863.66 EL=697.30
- TBM #12 - CHISELED SQUARE IN NW CORNER OF ROCK & CONC. HEADWALL ZIERDT RD STA 162+73.66. 50.61'(LT) N=1523804.35. E=390715.52 EL=618.16
- TBM #13 - REBAR SET FLUSH WITH GROUND ALONG FENCE LINE ZIERDT RD STA 170+39.88. 15.57'(RT) N=1524568.31. E=390806.09 EL=632.68
- TBM #14 - CENTER OF STORM DRAIN MANHOLE LID ZIERDT RD STA 186+59.88. 37.04'(LT) N=1526188.79. E=390775.57 EL=650.65

CONTROL POINTS

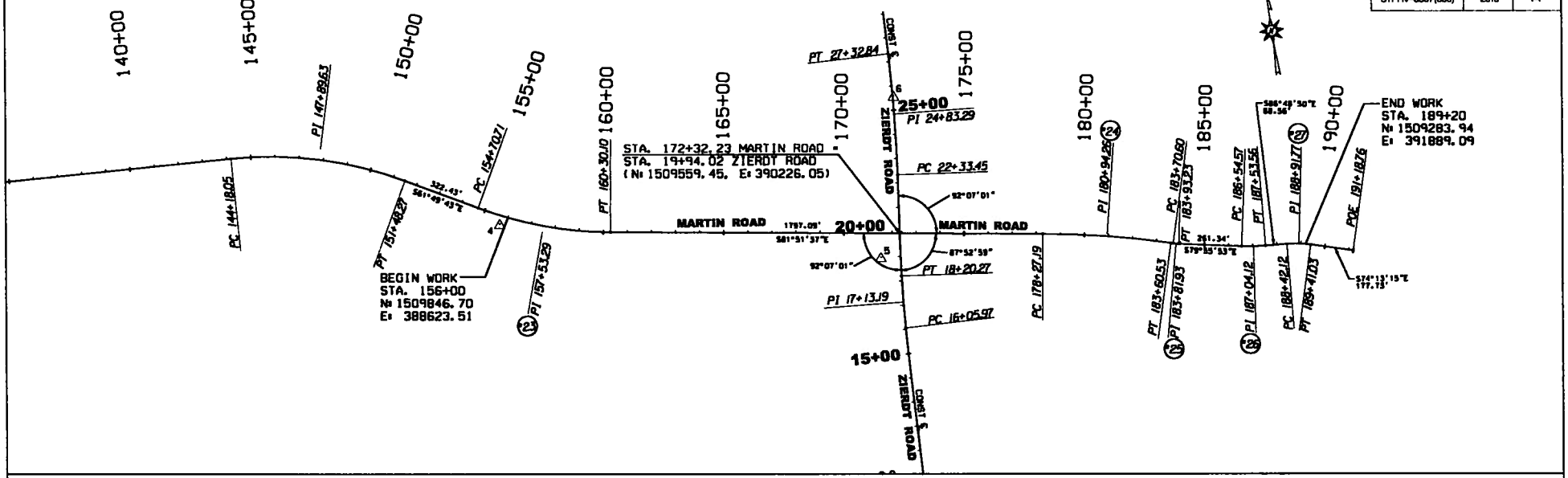
- 5800 - N: 1519925.125. E: 390630.316 NAIL AND DISC LOCATED 12.8 FEE EAST OF EXISTING EDGE OF PAVEMENT
- 5826 - N: 1521146.353. E: 390736.187 NAIL AND DISC LOCATED 6 FEET WEST OF EXISTING SECURITY FENCE
- 7160 - N: 1522271.162. E: 390699.273 NAIL AND DISC LOCATED 7.2 FEET EAST OF EXISTING EDGE OF PAVEMENT
- 7200 - N: 1524132.774. E: 390772.427 NAIL AND DISC LOCATED 5.6 FEET EAST OF EXISTING EDGE OF PAVEMENT
- 7204 - N: 1525228.542. E: 390811.602 NAIL AND DISC LOCATED 5.3 FEET EAST OF EXISTING EDGE OF PAVEMENT
- 7205 - N: 1525697.634. E: 390778.536 NAIL AND DISC LOCATED 15.6 FEET WEST OF EXISTING EDGE OF PAVEMENT

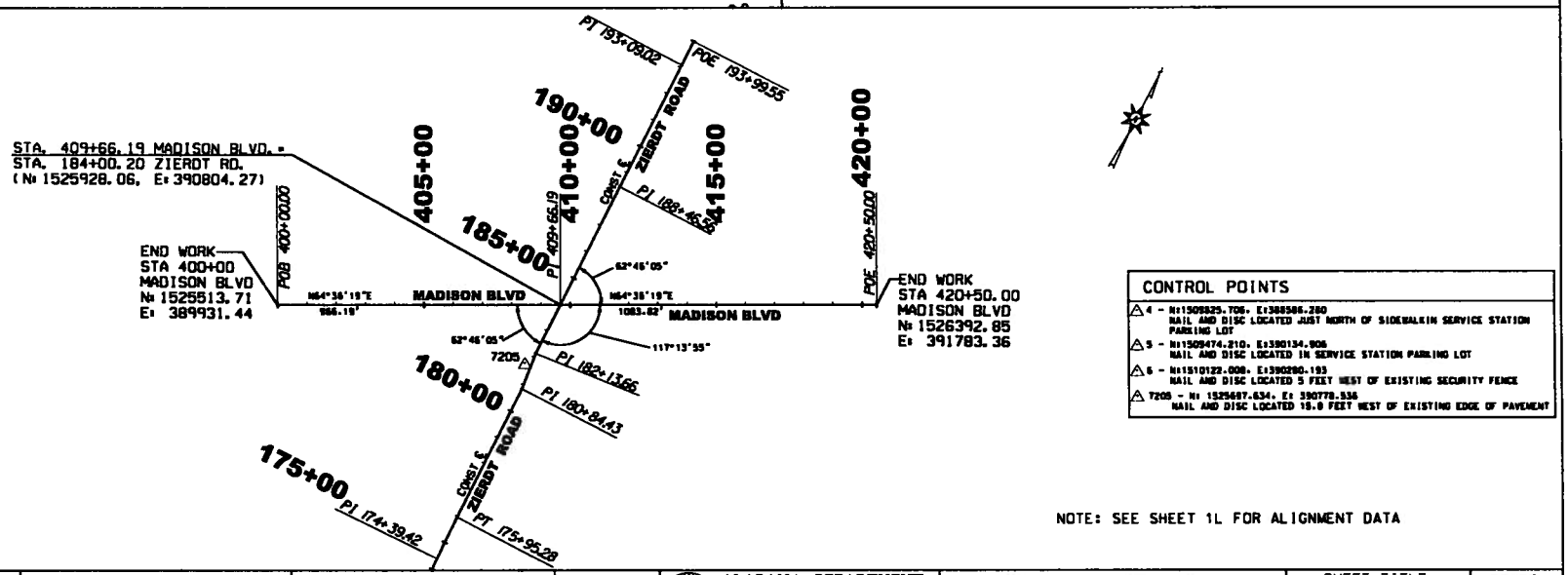
NOTE: SEE SHEETS 1J. 1K. & 1L FOR ALIGNMENT DATA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 200 0 200 400 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-HV-8507(800)	2013	1-I





CONTROL POINTS

△4 - N:1509825.706, E:388586.280
NAIL AND DISC LOCATED JUST NORTH OF SIDEWALK IN SERVICE STATION PARKING LOT

△5 - N:1509474.210, E:390134.906
NAIL AND DISC LOCATED IN SERVICE STATION PARKING LOT

△6 - N:1510122.008, E:390280.193
NAIL AND DISC LOCATED 5 FEET WEST OF EXISTING SECURITY FENCE

△7205 - N: 1525487.634, E: 390778.536
NAIL AND DISC LOCATED 15.0 FEET WEST OF EXISTING EDGE OF PAVEMENT

NOTE: SEE SHEET 1L FOR ALIGNMENT DATA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	HORIZ 200 0 200 400 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	1J

HORIZONTAL ALIGNMENT DATA

Project Name: Zierdt Road Improvements
Description: From Martin Rd. to North of Madison Blvd.
Horizontal Alignment Name: Zierdt Road

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	-0+22.47	1507544.561	390160.767
PI	(27)	10+00.19	1508566.985	390182.732
	Tangent Direction:	N 1°13'51" E		
	Tangent Length:	1022.660		
	Element: Linear			
PI	(27)	10+00.19	1508566.985	390182.732
PC	( )	14+50.92	1509017.626	390191.474
	Tangent Direction:	N 1°06'41" E		
	Tangent Length:	450.725		
	Element: Circular			
PC	( )	14+50.92	1509017.626	390191.474
PI	( )	17+13.38	1509280.040	390196.565
CC	( )		1508898.916	396310.323
PT	( )	19+75.52	1509541.056	390224.104
	Radius:	6120.000		
	Design Speed(mph):	45.000		
	Superelevation:	1.60%		
	Delta:	4°54'41" Right		
	Degree of Curvature(Arc):	0°56'10"		
	Length:	524.606		
	Tangent:	262.464		
	Chord:	524.446		
	Middle Ordinate:	5.620		
	External:	5.625		
	Tangent Direction:	N 1°06'41" E		
	Radial Direction:	S 88°53'19" E		
	Chord Direction:	N 3°34'02" E		
	Radial Direction:	S 83°56'38" E		
	Tangent Direction:	N 6°01'22" E		
	Element: Linear			
PT	( )	19+75.52	1509541.056	390224.104
PC	(67)	22+33.45	1509797.563	390251.168
	Tangent Direction:	N 6°01'22" E		
	Tangent Length:	257.931		
	Element: Circular			
PC	(67)	22+33.45	1509797.563	390251.168
PI	( )	24+83.29	1510046.023	390277.382
CC	(69)		1510427.111	384284.287
PT	(70)	27+32.84	1510295.803	390282.850
	Radius:	6000.000		
	Design Speed(mph):	45.000		
	Superelevation:	NC		
	Delta:	4°46'08" Left		
	Degree of Curvature(Arc):	0°57'18"		
	Length:	499.391		
	Tangent:	249.840		
	Chord:	499.247		
	Middle Ordinate:	5.195		
	External:	5.199		
	Tangent Direction:	N 6°01'22" E		
	Radial Direction:	S 83°58'38" E		
	Chord Direction:	N 3°38'18" E		
	Radial Direction:	S 88°44'46" E		
	Tangent Direction:	N 1°15'14" E		
	Element: Linear			
PT	(70)	27+32.84	1510295.803	390282.850
PI	(71)	31+63.95	1510726.803	390292.284
	Tangent Direction:	N 1°15'14" E		
	Tangent Length:	431.103		
	Element: Linear			
PI	(71)	31+63.95	1510726.803	390292.284
PC	(72)	44+34.54	1511997.121	390318.625
	Tangent Direction:	N 1°11'16" E		
	Tangent Length:	1270.592		
	Element: Circular			
PC	(72)	44+34.54	1511997.121	390318.625
PI	( )	44+78.89	1512041.468	390319.544
CC	(73)		1511789.811	400316.476
PT	(74)	45+23.25	1512085.805	390320.857
	Radius:	10000.000		
	Design Speed(mph):	45.000		
	Superelevation:	NC		
	Delta:	0°30'30" Right		
	Degree of Curvature(Arc):	0°34'23"		
	Length:	88.712		
	Tangent:	44.356		
	Chord:	88.712		
	Middle Ordinate:	0.098		
	External:	0.098		
	Tangent Direction:	N 1°11'16" E		
	Radial Direction:	S 88°48'44" E		
	Chord Direction:	N 1°26'31" E		
	Radial Direction:	S 88°18'14" E		
	Tangent Direction:	N 1°41'46" E		
	Element: Linear			
PT	(74)	45+23.25	1512085.805	390320.857
PI	(75)	60+70.54	1513632.421	390366.656
	Tangent Direction:	N 1°41'46" E		
	Tangent Length:	1547.294		
	Element: Linear			
PI	(75)	60+70.54	1513632.421	390366.656
PI	(76)	74+55.39	1515016.230	390420.252
	Tangent Direction:	N 2°13'05" E		
	Tangent Length:	1384.847		
	Element: Linear			
PI	(76)	74+55.39	1515016.230	390420.252
PI	(77)	93+87.90	1516947.179	390497.877
	Tangent Direction:	N 2°18'08" E		
	Tangent Length:	1932.508		
	Element: Linear			
PI	(77)	93+87.90	1516947.179	390497.877
PC	( )	102+92.39	1517850.910	390535.022
	Tangent Direction:	N 2°21'13" E		
	Tangent Length:	904.495		
	Element: Circular			
PC	( )	102+92.39	1517850.910	390535.022
PI	( )	105+24.75	1518083.072	390544.564
CC	( )		1518405.307	377046.580
PT	( )	107+57.06	1518315.424	390546.111
	Radius:	13499.830		
	Design Speed(mph):	45.000		
	Superelevation:	NC		
	Delta:	1°58'20" Left		
	Degree of Curvature(Arc):	0°25'28"		
	Length:	464.669		
	Tangent:	232.357		
	Chord:	464.646		
	Middle Ordinate:	1.999		
	External:	2.000		
	Tangent Direction:	N 2°21'13" E		
	Radial Direction:	S 87°38'47" E		
	Chord Direction:	N 1°22'03" E		
	Radial Direction:	S 89°37'07" E		
	Tangent Direction:	N 0°22'53" E		
	Element: Linear			
PT	( )	107+57.06	1518315.424	390546.111
PC	( )	111+08.41	1518666.763	390548.450
	Tangent Direction:	N 0°22'53" E		
	Tangent Length:	351.347		
	Element: Circular			
PC	( )	111+08.41	1518666.763	390548.450
PI	( )	111+73.57	1518731.927	390548.884
CC	( )		1518641.556	394334.366
PT	( )	112+38.73	1518797.036	390551.560
	Radius:	3786.000		
	Design Speed(mph):	45.000		
	Superelevation:	NC		
	Delta:	1°58'20" Right		
	Degree of Curvature(Arc):	1°30'48"		
	Length:	130.316		
	Tangent:	65.165		
	Chord:	130.310		
	Middle Ordinate:	0.561		
	External:	0.561		
	Tangent Direction:	N 0°22'53" E		
	Radial Direction:	S 89°37'07" E		
	Chord Direction:	N 1°22'03" E		
	Radial Direction:	S 87°38'47" E		
	Tangent Direction:	N 2°21'13" E		
	Element: Linear			
PT	( )	112+38.73	1518797.036	390551.560
PC	( )	117+30.39	1519288.287	390571.752
	Tangent Direction:	N 2°21'13" E		
	Tangent Length:	491.665		
	Element: Circular			
PC	( )	117+30.39	1519288.287	390571.752
PI	( )	118+34.27	1519392.082	390576.018
CC	( )		1519616.824	382578.500
PT	( )	119+38.15	1519495.953	390577.587
	Radius:	8000.000		
	Design Speed(mph):	45.000		
	Superelevation:	NC		
	Delta:	1°29'17" Left		
	Degree of Curvature(Arc):	0°42'58"		
	Length:	207.754		
	Tangent:	103.883		
	Chord:	207.749		
	Middle Ordinate:	0.674		
	External:	0.674		
	Tangent Direction:	N 2°21'13" E		
	Radial Direction:	S 87°38'47" E		
	Chord Direction:	N 1°36'35" E		
	Radial Direction:	S 89°08'03" E		
	Tangent Direction:	N 0°51'57" E		
	Element: Linear			
PT	( )	119+38.15	1519495.953	390577.587
PC	( )	120+50.38	1519608.173	390579.283
	Tangent Direction:	N 0°51'57" E		
	Tangent Length:	112.232		
	Element: Circular			
PC	( )	120+50.38	1519608.173	390579.283
PI	( )	123+09.50	1519867.268	390583.198
CC	( )		1519580.977	392379.078
PT	( )	125+65.09	1520114.738	390660.037
	Radius:	1800.000		
	Design Speed(mph):	45.000		
	Superelevation:	4.20%		
	Delta:	16°23'02" Right		
	Degree of Curvature(Arc):	3°10'59"		
	Length:	514.714		
	Tangent:	259.125		
	Chord:	512.962		
	Middle Ordinate:	18.367		
	External:	18.556		
	Tangent Direction:	N 0°51'57" E		
	Radial Direction:	S 89°08'03" E		
	Chord Direction:	N 9°03'27" E		
	Radial Direction:	S 72°45'02" E		
	Tangent Direction:	N 17°14'58" E		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1K

Project Name: Zierdt Road Improvements
Description: From Martin Rd. to North of Madison Blvd.
Horizontal Alignment Name: Martin Road

HORIZONTAL ALIGNMENT DATA

		STATION	NORTHING	EASTING
	Element: Linear			
	PT ( )	125+65.09	1520114.738	390660.037
	PC ( )	127+55.39	1520296.476	390716.467
	Tangent Direction:		N 17°14' 58" E	
	Tangent Length:		190.297	
	Element: Circular			
13	PC ( )	127+55.39	1520296.476	390716.467
	PI ( )	130+24.32	1520553.312	390796.214
	CC ( )		1520659.730	389546.564
	PT ( )	132+84.85	1520819.935	390761.043
	Radius:		1225.000	
	Design Speed(mph):		45.000	
	Superelevation:		5.00%	
	Delta:		24°45' 51" Left	
	Degree of Curvature(Arc):		4°40' 38"	
	Length:		529.466	
	Tangent:		268.933	
	Chord:		525.354	
	Middle Ordinate:		28.494	
	External:		29.173	
	Tangent Direction:		N 17°14' 58" E	
	Radial Direction:		S 72°45' 02" E	
	Chord Direction:		N 4°52' 03" E	
	Radial Direction:		N 82°29' 07" E	
	Tangent Direction:		N 7°30' 53" W	
	Element: Linear			
	PT ( )	132+84.85	1520819.935	390761.043
	PC ( )	136+82.35	1521214.017	390709.059
	Tangent Direction:		N 7°30' 53" W	
	Tangent Length:		397.495	
	Element: Circular			
14	PC ( )	136+82.35	1521214.017	390709.059
	PI ( )	139+42.86	1521472.293	390674.989
	CC ( )		1521606.357	393683.293
	PT ( )	142+02.07	1521732.576	390685.949
	Radius:		3000.000	
	Design Speed(mph):		45.000	
	Superelevation:		3.00%	
	Delta:		9°55' 34" Right	
	Degree of Curvature(Arc):		1°54' 35"	
	Length:		519.723	
	Tangent:		260.513	
	Chord:		519.073	
	Middle Ordinate:		11.248	
	External:		11.290	
	Tangent Direction:		N 7°30' 53" W	
	Radial Direction:		N 82°29' 07" E	
	Chord Direction:		N 2°33' 06" W	
	Radial Direction:		S 87°35' 19" E	
	Tangent Direction:		N 2°24' 41" E	
	Element: Linear			
	PT ( )	142+02.07	1521732.576	390685.949
	PC (87)	157+05.83	1523235.001	390749.217
	Tangent Direction:		N 2°24' 41" E	
	Tangent Length:		1503.757	
	Element: Circular			
15	PC (87)	157+05.83	1523235.001	390749.217
	PI ( )	157+62.24	1523291.359	390751.590
	CC (89)		1523571.582	382756.300
	PT (90)	158+18.64	1523347.744	390753.168
	Radius:		8000.000	
	Design Speed(mph):		45.000	
	Superelevation:		NC	
	Delta:		0°48' 29" Left	
	Degree of Curvature(Arc):		0°42' 58"	
	Length:		112.814	
	Tangent:		56.408	
	Chord:		112.813	
	Middle Ordinate:		0.199	
	External:		0.199	
	Tangent Direction:		N 2°24' 41" E	
	Radial Direction:		S 87°35' 19" E	
	Chord Direction:		N 2°00' 26" E	
	Radial Direction:		S 88°23' 48" E	
	Tangent Direction:		N 1°36' 12" E	
	Element: Linear			
	PT (90)	158+18.64	1523347.744	390753.168
	PC (91)	162+17.12	1523746.070	390764.317
	Tangent Direction:		N 1°36' 12" E	
	Tangent Length:		398.481	
	Element: Circular			
16	PC (91)	162+17.12	1523746.070	390764.317
	PI ( )	162+49.40	1523778.332	390765.221
	CC (92)		1523522.232	398761.185
	PT (93)	162+81.67	1523810.585	390766.384
	Radius:		8000.000	
	Design Speed(mph):		45.000	
	Superelevation:		NC	
	Delta:		0°27' 44" Right	
	Degree of Curvature(Arc):		0°42' 58"	
	Length:		64.549	
	Tangent:		32.275	
	Chord:		64.549	
	Middle Ordinate:		0.065	
	External:		0.065	
	Tangent Direction:		N 1°36' 12" E	
	Radial Direction:		S 88°23' 48" E	
	Chord Direction:		N 1°50' 04" E	
	Radial Direction:		S 87°56' 04" E	
	Tangent Direction:		N 2°03' 56" E	
	Element: Linear			
	PT (93)	162+81.67	1523810.585	390766.384
	PC (94)	168+35.99	1524364.540	390786.364
	Tangent Direction:		N 2°03' 56" E	
	Tangent Length:		554.315	
	Element: Circular			
17	PC (94)	168+35.99	1524364.540	390786.364
	PI ( )	170+04.88	1524533.323	390792.451
	CC (95)		1524598.827	384290.587
	PT (96)	171+73.70	1524702.194	390789.765
	Radius:		6500.000	
	Design Speed(mph):		45.000	
	Superelevation:		NC	
	Delta:		2°58' 37" Left	
	Degree of Curvature(Arc):		0°52' 53"	
	Length:		337.710	
	Tangent:		168.893	
	Chord:		337.672	
	Middle Ordinate:		2.193	
	External:		2.194	
	Tangent Direction:		N 2°03' 56" E	
	Radial Direction:		S 87°56' 04" E	
	Chord Direction:		N 0°34' 38" E	
	Radial Direction:		N 89°05' 20" E	
	Tangent Direction:		N 0°54' 40" W	
	Element: Linear			
	PT (96)	171+73.70	1524702.194	390789.765
	PC (97)	172+84.76	1524813.241	390787.999
	Tangent Direction:		N 0°54' 40" W	
	Tangent Length:		111.060	
	Element: Circular			
18	PC (97)	172+84.76	1524813.241	390787.999
	PI ( )	174+40.68	1524969.148	390785.520
	CC (98)		1524916.608	397287.177
	PT (99)	175+96.55	1525124.994	390790.519
	Radius:		6500.000	
	Design Speed(mph):		45.000	
	Superelevation:		NC	
	Delta:		2°44' 54" Right	
	Degree of Curvature(Arc):		0°52' 53"	
	Length:		311.794	
	Tangent:		155.927	
	Chord:		311.764	
	Middle Ordinate:		1.869	
	External:		1.870	
	Tangent Direction:		N 0°54' 40" W	
	Radial Direction:		N 89°05' 20" E	
	Chord Direction:		N 0°27' 47" E	
	Radial Direction:		S 88°09' 46" E	
	Tangent Direction:		N 1°50' 14" E	
	Element: Linear			
	PT (99)	175+96.55	1525124.994	390790.519
	PI (116)	180+85.70	1525613.886	390806.200
	Tangent Direction:		N 1°50' 14" E	
	Tangent Length:		489.144	
	Element: Linear			
19	PI (116)	180+85.70	1525613.886	390806.200
	PI ( )	182+14.92	1525742.876	390798.331
	Tangent Direction:		N 3°29' 27" W	
	Tangent Length:		129.230	
	Element: Linear			
20	PI ( )	182+14.92	1525742.876	390798.331
	PI (122)	188+47.83	1526375.458	390818.622
	Tangent Direction:		N 1°50' 14" E	
	Tangent Length:		632.907	
	Element: Linear			
21	PI (122)	188+47.83	1526375.458	390818.622
	PI (118)	193+10.29	1526837.586	390836.027
	Tangent Direction:		N 2°09' 25" E	
	Tangent Length:		462.456	
	Element: Linear			
22	PI (118)	193+10.29	1526837.586	390836.027
	POE ( )	194+00.82	1526928.073	390838.930
	Tangent Direction:		N 1°50' 14" E	
	Tangent Length:		90.533	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

PRIMARY SURVEY & GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	1L

Project Name: Zierdt Road Improvements
Description: From Martin Rd. to North of Madison Blvd.
Horizontal Alignment Name: Martin Road

HORIZONTAL ALIGNMENT DATA

	STATION	NORTHING	EASTING
Element: Linear			
PT ( )	151+48.27	1510055.299	388222.950
PC ( )	154+70.71	1509903.074	388507.189
Tangent Direction:		S 61°49' 43" E	
Tangent Length:	322.435		
Element: Circular			
PC ( )	154+70.71	1509903.074	388507.189
PI ( )	157+53.29	1509769.666	388756.294
CC ( )		1511313.538	389262.565
PT ( )	160+30.10	1509729.656	389036.026
Radius:	1600.000		
Design Speed(mph):		50.000	
Superelevation:		3.500%	
Delta:		20°01' 54" Left	
Degree of Curvature(Arc):		3°34' 52"	
Length:		559.390	
Tangent:		282.579	
Chord:		556.545	
Middle Ordinate:		24.384	
External:		24.762	
Tangent Direction:		S 61°49' 43" E	
Radial Direction:		S 28°10' 17" W	
Chord Direction:		S 71°50' 40" E	
Radial Direction:		S 8°08' 23" W	
Tangent Direction:		S 81°51' 37" E	
Element: Linear			
PT ( )	160+30.10	1509729.656	389036.026
PC ( )	178+27.19	1509475.211	390815.017
Tangent Direction:		S 81°51' 37" E	
Tangent Length:	1797.095		
Element: Circular			
PC ( )	178+27.19	1509475.211	390815.017
PI ( )	180+94.26	1509437.398	391079.392
CC ( )		1505515.508	390248.670
PT ( )	183+60.53	1509364.775	391336.395
Radius:	4000.000		
Design Speed(mph):		50.000	
Superelevation:		2.460%	
Delta:		7°38' 22" Right	
Degree of Curvature(Arc):		1°25' 57"	
Length:		533.340	
Tangent:		267.066	
Chord:		532.946	
Middle Ordinate:		8.886	
External:		8.906	
Tangent Direction:		S 81°51' 37" E	
Radial Direction:		S 8°08' 23" W	
Chord Direction:		S 78°02' 26" E	
Radial Direction:		S 15°46' 45" W	
Tangent Direction:		S 74°13' 15" E	
Element: Linear			
PT ( )	183+60.53	1509364.775	391336.395
PC ( )	183+70.60	1509362.036	391346.088
Tangent Direction:		S 74°13' 15" E	
Tangent Length:	10.073		

	STATION	NORTHING	EASTING
Element: Circular			
PC ( )	183+70.60	1509362.036	391346.088
PI ( )	183+81.93	1509358.957	391356.983
CC ( )		1509580.482	391407.816
PT ( )	183+93.23	1509356.978	391368.130
Radius:	227.000		
Design Speed(mph):		50.000	
Superelevation:		-4.000%	
Delta:		5°42' 38" Left	
Degree of Curvature(Arc):		25°14' 26"	
Length:		22.625	
Tangent:		11.322	
Chord:		22.615	
Middle Ordinate:		0.282	
External:		0.282	
Tangent Direction:		S 74°13' 15" E	
Radial Direction:		S 15°46' 45" W	
Chord Direction:		S 77°04' 34" E	
Radial Direction:		S 10°04' 07" W	
Tangent Direction:		S 79°55' 53" E	
Element: Linear			
PT ( )	160+30.10	1509729.656	389036.026
PC ( )	178+27.19	1509475.211	390815.017
Tangent Direction:		S 81°51' 37" E	
Tangent Length:	1797.095		
Element: Circular			
PC ( )	186+54.57	1509311.287	391625.450
PI ( )	187+04.12	1509302.625	391674.237
CC ( )		1510122.597	391769.507
PT ( )	187+53.56	1509299.871	391723.711
Radius:		824.000	
Design Speed(mph):		50.000	
Superelevation:		-4.000%	
Delta:		6°52' 57" Left	
Degree of Curvature(Arc):		6°57' 12"	
Length:		98.482	
Tangent:		49.551	
Chord:		98.423	
Middle Ordinate:		1.486	
External:		1.489	
Tangent Direction:		S 79°55' 53" E	
Radial Direction:		S 10°04' 07" W	
Chord Direction:		S 83°22' 22" E	
Radial Direction:		S 3°11' 10" W	
Tangent Direction:		S 86°48' 50" E	
Element: Linear			
PT ( )	187+53.56	1509299.871	391723.711
PC ( )	188+42.12	1509294.948	391812.139
Tangent Direction:		S 86°48' 50" E	
Tangent Length:	88.565		
Element: Circular			
PC ( )	188+42.12	1509294.948	391812.139
PI ( )	188+91.77	1509292.189	391861.716
CC ( )		1508845.644	391787.129
PT ( )	189+41.03	1509278.687	391909.498
Radius:		450.000	
Design Speed(mph):		50.000	
Superelevation:		4.000%	
Delta:		12°35' 35" Right	
Degree of Curvature(Arc):		12°43' 57"	
Length:		98.907	
Tangent:		49.653	
Chord:		98.708	
Middle Ordinate:		2.715	
External:		2.731	
Tangent Direction:		S 86°48' 50" E	
Radial Direction:		S 3°11' 10" W	
Chord Direction:		S 80°31' 03" E	
Radial Direction:		S 15°46' 45" W	
Tangent Direction:		S 74°13' 15" E	

	STATION	NORTHING	EASTING
Element: Linear			
PT ( )	189+41.03	1509278.687	391909.498
POE ( )	191+18.76	1509230.355	392080.533
Tangent Direction:		S 74°13' 15" E	
Tangent Length:	177.733		

Project Name: Zierdt Road Improvements
Description: From Martin Rd. to North of Madison Blvd.
Horizontal Alignment Name: Madison Blvd

	STATION	NORTHING	EASTING
Element: Linear			
POB ( )	400+00.00	1525513.706	389931.442
PI ( )	409+66.19	1525928.056	390804.271
Tangent Direction:		N 64°36' 19" E	
Tangent Length:		966.187	
Element: Linear			
PI ( )	409+66.19	1525928.056	390804.271
POE ( )	420+50.00	1526392.853	391783.365
Tangent Direction:		N 64°36' 19" E	
Tangent Length:		1083.817	

Project Name: Zierdt Road Improvements
Description: From Martin Rd. to North of Madison Blvd.
Horizontal Alignment Name: Edgewater Drive

	STATION	NORTHING	EASTING
Element: Linear			
POB ( )	10+00.00	1519777.063	390589.790
PC ( )	10+43.59	1519781.632	390546.437
Tangent Direction:		N 83°59' 02" W	
Tangent Length:		43.593	
Element: Circular			
PC ( )	10+43.59	1519781.632	390546.437
PI ( )	10+53.22	1519782.641	390536.867
CC ( )		1520129.705	390583.121
PT ( )	10+62.83	1519784.174	390527.367
Radius:		350.000	
Design Speed(mph):		30.000	
Delta:		3°09' 00" Right	
Degree of Curvature(Arc):		16°22' 13"	
Length:		19.241	
Tangent:		9.623	
Chord:		19.239	
Middle Ordinate:		0.132	
External:		0.132	
Tangent Direction:		N 83°59' 02" W	
Radial Direction:		N 6°00' 58" E	
Chord Direction:		N 82°24' 32" W	
Radial Direction:		N 9°09' 58" E	
Tangent Direction:		N 80°50' 02" W	
Element: Linear			
PT ( )	10+62.83	1519784.174	390527.367
POE ( )	13+22.70	1519825.570	390270.815
Tangent Direction:		N 80°50' 02" W	
Tangent Length:		259.870	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

NOT TO SCALE

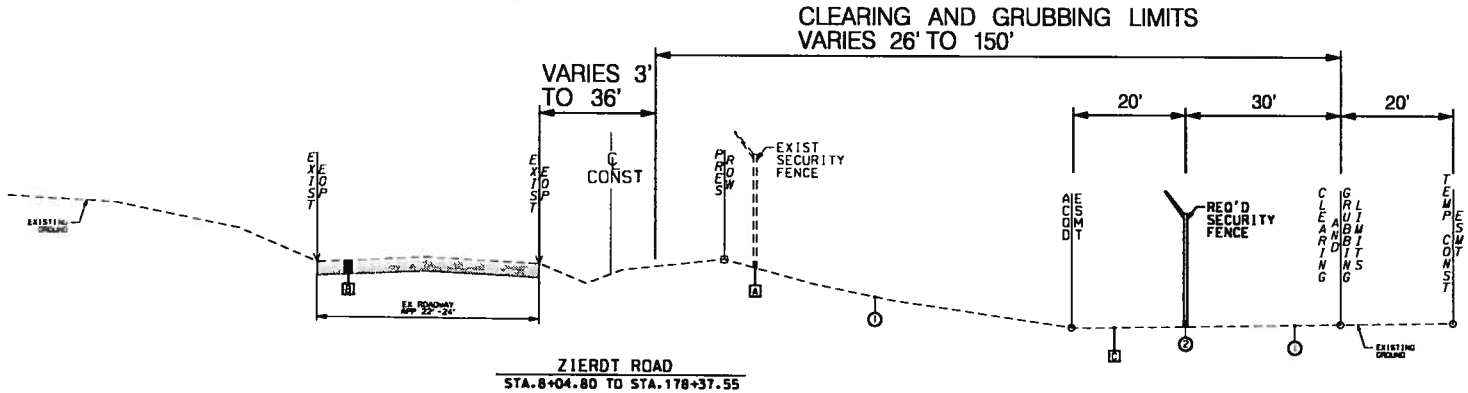
SHEET TITLE	ROUTE
GEOMETRIC LAYOUT SHEET	ZIERDT ROAD

TYPICAL SECTIONS

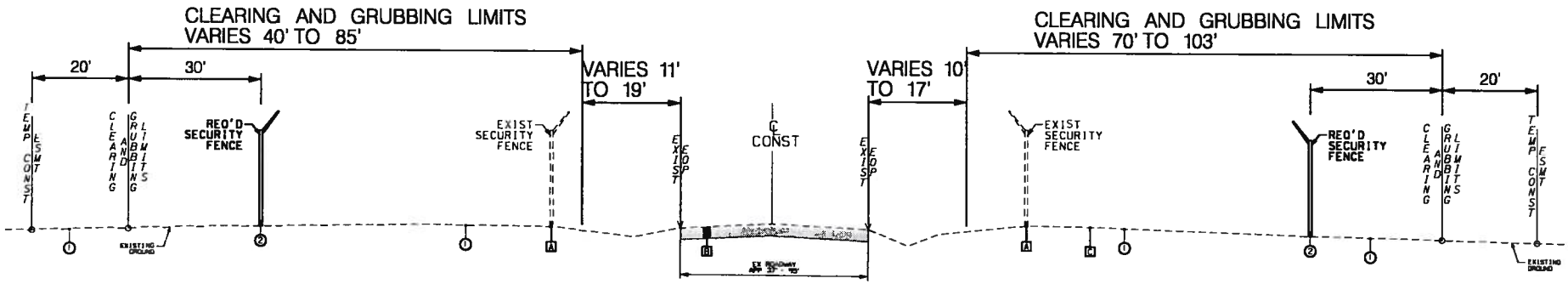
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	2

PROJECT NOTES
301,302,303
304

GN-2 NOTES
111,124,133



ZIERDT ROAD
STA.8+04.80 TO STA.178+37.55



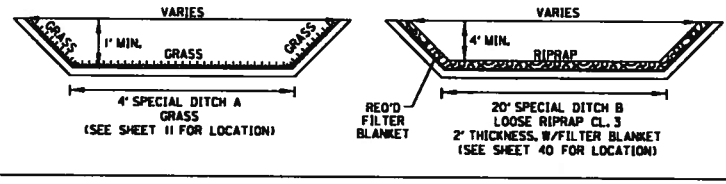
MARTIN ROAD
STA.173+89.41 TO STA.187+21.97

REQUIRED MATERIALS LEGEND

1. REQ'D 201A-002 CLEARING AND GRUBBING (WIDTH VARIES 26' TO 150')
2. REQ'D 634B-000 INDUSTRIAL FENCE, 6 FT HIGH PLUS BARBED WIRE (45 DEGREE ARMS)

A. EXIST SECURITY FENCE (REMOVE)
B. IN-PLACE BITUMINOUS PAVEMENT (RETAIN)
C. IN-PLACE TOPSOIL(RETAIN)(APPROX. 6" THICK)

REQ'D DITCH DETAILS



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TYPICAL SECTIONS	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	2A

PROJECT NOTES

PROJECT NO. STPHV-8507(600)
MADISON COUNTY

200. OMIT

201. OMIT

202. OMIT

300. OMIT

301. ITEMS TO BE REMOVED THAT ARE NOT PROVIDED FOR BY PAY ITEM OR SPECIFICALLY MENTIONED BY NOTE TO BE INCLUDED IN OTHER ITEMS OF WORK SHALL BE REMOVED IN ACCORDANCE WITH THE REQUIREMENTS FOR EXTRA WORK GIVEN IN ARTICLE 104.03 OF STANDARD SPECIFICATIONS.

302. THE CONTRACTOR IS REQUIRED TO RELOCATE THE EXISTING SIGNS MOUNTED ON THE RSA'S SECURITY FENCE TO THE NEW SECURITY FENCE AND SHALL BE ATTACHED TO THE NEW SECURITY FENCE IN THE SAME MANNER AS THE SIGNS ARE ATTACHED TO THE EXISTING SECURITY FENCE. THE COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE NEW SECURITY FENCE.

303. EACH NEW SECURITY FENCE POST LOCATION BETWEEN STATIONS 106+00 TO 143+00 MUST BE SWEPT FOR UXO, TO 3 FOOT BELOW DEPTH.

304. REMOVAL OF SOIL FROM THE ROOT BALL DURING THE CLEARING AND GRUBBING OPERATION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

305. OMIT

400. REDSTONE ARSENAL SECURITY MUST BE MAINTAINED. CONTRACTOR MUST SEQUENCE THE CONSTRUCTION OF ALL CLEARING, GRUBBING, GRADING, NEW SECURITY FENCE, AND DRAINAGE EAST OF THE EXISTING SECURITY FENCE WITH RSA PHYSICAL SECURITY PERSONNEL UNTIL THEY ARE COMPLETE. THE EXISTING SECURITY FENCE MUST NOT BE REMOVED UNTIL CONSTRUCTION OF NEW SECURITY FENCE IS COMPLETE AND RSA PHYSICAL SECURITY HAS APPROVED REMOVAL OF THE EXISTING SECURITY FENCE.

401. THE BOBCAT CAVE ECOLOGICALLY SENSITIVE AREA (ESA) IS EAST OF ZIERDT ROAD (STA 76+00 TO 115+00) FROM PRESENT EAST ROW LINE ABOUT 0.5 MILES EAST. BOBCAT CAVE IS 1200 FT EAST OF ZIERDT RD IN A GROUNDWATER GROUPINGED TO BETTS SPRING BRANCH / LAKE ANN LAKE / AREAS WEST OF RSA. IT IS A KNOWN HABITAT FOR FEDERALLY ENDANGERED ALABAMA CAVE SHRIMP. SHALLOW GROUNDWATER SUPPLY AREA OF 200-ACRES REPRESENTS THE ESA WATERSHED. AREA GROUNDWATER USUALLY FLOWS SOUTH TO THE TENNESSEE RIVER; BUT, SHALLOW GROUNDWATER IN THE UPPER RECHARGE AREA FLOWS NORTH TO BETTS SPRING BRANCH. THE SURFACE RECHARGE AREA OF BOBCAT CAVE ESA MUST BE PROTECTED. AREA SURFACE DRAINAGE GENERALLY FLOWS NORTH TO A SECOND CAVE HYDRAULICALLY CONNECTED TO BOBCAT CAVE. IMPACTS TO THE ALABAMA CAVE SHRIMP MUST BE AVOIDED. THESE GUIDELINES MUST BE FOLLOWED:
- EROSION CONTROL MEASURES WILL BE USED TO PREVENT EROSION AND SEDIMENTATION FROM AFFECTING EITHER CAVE. ALL DISTURBED SOILS WILL BE RE-SEEDED IN ACCORDANCE WITH THE ALDOT'S EROSION CONTROL PLAN.
- PESTICIDE, HERBICIDE, OR TOXIC SUBSTANCE USE IS NOT ALLOWED IN THE ESA.
- NO EQUIPMENT, PETROLEUM PRODUCTS, OR HAZARDOUS MATERIALS WILL BE LEFT OVERNIGHT IN BOBCAT CAVE ESA. NO MAINTENANCE, FUELING OPERATIONS, OR HAZARDOUS MATERIAL USE WILL OCCUR IN THE ESA. SPILL KITS WILL BE KEPT ON SITE IN CASE OF LEAK, RELEASE OF PETROLEUM, OR OTHER HAZARDOUS MATERIAL.
- ACCESS TO BOBCAT CAVE IS PROHIBITED.
- BMP'S MUST BE USED AND INCORPORATED IN CDMPP TO MINIMIZE EROSION AND SEDIMENTATION OF DRAINAGE FEATURES AND TOPOGRAPHIC DEPRESSIONS (KARST FEATURES) NEAR THE PROJECT. DESIGNS, SPECIFICATIONS, INSTALLATIONS, MAINTENANCE, INSPECTION AND REPORTING MUST FOLLOW ALDOT INTERNAL POLICIES AND GUIDANCE, AS WELL AS REGULATORY PERMITTING REQUIREMENTS.
- NO SURFACE DRAINAGE RUNOFF WILL BE DIRECTED TO BOBCAT CAVE ESA. ALL STORMWATER RUNOFF/DISCHARGE WILL BE DIRECTED NEAT, AWAY FROM BOBCAT CAVE ESA. STORMWATER WILL NOT BE DUMPED IN DEPRESSIONS. IT WILL BE MANAGED TO PREVENT CHANGES IN GROUNDWATER FLOW EAST OF ZIERDT ROAD.

402. SITE RSA-278 (IN NORTHWEST CORNER OF RSA, EAST OF ZIERDT RD NEAR I-565 AND MADISON BLVD) IS A COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, LIABILITY (CERCLA) SUPERFUND SITE IN THE INSTALLATION RESTORATION PROGRAM (IRP) & MILITARY MUNITIONS RESPONSE PROGRAM (MMRP). THEREFORE, THESE AREAS AND ALL MATERIAL CONTAINED WITHIN THESE AREAS ARE SUBJECT TO THE FOLLOWING REGULATIONS:
- IRP MUST BE GIVEN FINAL PLANS TO ESTIMATE/SECURE FUNDS TO PROVIDE ON-CALL UXO SUPPORT STAFF REQUIRED FOR ACTIVITIES IN THE MMRP TO ENSURE THE PROJECT IS BUILT IN A SAFE ENVIRONMENT. CONTACT THE RSA GARRISON SAFETY OFFICER TO COORDINATE REQUIRED UXO REMOVAL/CLEARANCE BY IRP BEFORE STARTING WORK. IR BRANCH MUST BE CONTACTED ONE WEEK BEFORE STARTING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH PROJECT CHANGES AFTER IRP SECURES/REMEDIES FUNDING FOR THEIR SUPPORT.
- ALL SPOILS/MATERIALS FROM THE MMRP SITE MUST BE COORDINATED WITH THE IR BRANCH FOR DETERMINATION OF PROPER DISPOSAL METHODS.
- THE IRP/MMRP WORK PLAN EVALUATION CHECKLIST AND BOUNDARY MAPS OF CERCLA SITE RSA-278 AND RSA PROPERTY MUST BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR MUST KEEP THESE ON-SITE AND FOLLOW THEM DURING CONSTRUCTION. ALL WORKERS MUST ATTEND A TWO-HOUR BRIEFING BY GARRISON SAFETY OFFICER. THEY MUST BE INFORMED OF CONTENTS IN THE IR CHECKLIST AND CERCLA SITE DESCRIPTION.
- NO GROUNDWATER TO SURFACE PUMPING/DISCHARGE IS ALLOWED WITHOUT SAMPLING AND ENVIRONMENTAL MANAGEMENT DIVISION APPROVAL. THE INSTALLATION GROUNDWATER LAND USE CONTROL GUIDE MUST BE FOLLOWED.

403. ALL SOIL REQUIRED FOR THE PROJECT WILL BE FROM A SITE OFF REDSTONE ARSENAL. ALL SOIL TAKEN FROM ANY PROPERTY MUST BE COORDINATED WITH IRP AND REDSTONE.

404. TO PREVENT IMPACTS TO SITE IMA1545, CLEARING ACTIVITIES WITHIN THE SITE BOUNDARY WILL BE COMPLETED BY HAND WITH NO INTRUSION BELOW THE PLOW ZONE. PHASE II ARCHAEOLOGICAL TESTING IS NO LONGER REQUIRED TO BE PERFORMED THIS AREA (APPROXIMATELY STA 113+20 TO 113+40) AND ANY WORK TO BE PERFORMED IN THIS AREA SHOULD BE COORDINATED WITH BEN HOUSEBERGER (256-876-6122) WITH REDSTONE ARSENAL ONE WEEK PRIOR TO COMMENCEMENT AND IS SUBJECT TO THE FOLLOWING REGULATIONS:
- IMPACTS TO ANY INTACT ARCHAEOLOGICAL DEPOSITS WILL NOT BE PERMITTED. SINCE THE UPPER APPROXIMATELY 8 INCHES (20 CM) OF SOIL ON THE SITE IN QUESTION HAS BEEN HAS BEEN PREVIOUSLY DISTURBED, THE ARCHAEOLOGICAL DEPOSITS IN THE ZONE ARE NO LONGER IN PRIMARY CONTEXT, AND FURTHER IMPACTS TO THAT ZONE WILL HAVE MINIMAL EFFECT ON THE INTEGRITY OF THE CULTURAL RESOURCE. THEREFORE, IMPACTS TO THE SITES AS A RESULT OF TIMBER CLEARING SHALL BE RESTRICTED TO THIS ZONE. NO IMPACTS SHALL BE PERMITTED BELOW 8 INCHES (20 CM) BELOW GROUND SURFACE.
- IN ORDER TO MINIMIZE IMPACTS BELOW THE PLOW ZONE, ANY TIMBER CLEARING ACTIVITY CONDUCTED ON POTENTIALLY NRHP ELIGIBLE ARCHAEOLOGICAL SITES, INCLUDING THE DRIVING OF HEAVY MACHINERY, THE FELLING OF TREES, AND THE DRAGGING OF FELLED TREES, SHALL BE CONDUCTED ONLY AFTER A MINIMUM OF ONE WEEK (7 DAYS) AFTER THE LAST RAIN FALL IN QUANTITIES OF HALF AN INCH (12.7 MM) OR MORE.
- NO TIMBER CLEARING ACTIVITY SHALL BE CONDUCTED ON PORTIONS OF POTENTIALLY NRHP ELIGIBLE ARCHAEOLOGICAL SITES SUBJECT TO HIGH WATER TABLE OR SIMILAR CONDITIONS. THESE AREAS COULD EXHIBIT SOFT GROUND CONDITIONS WHICH COULD BE EASILY RUTTED BY HEAVY MACHINERY OR DRAG TREES.
- ALL CULTURAL FEATURES VISIBLE AT THE SURFACES OF POTENTIALLY NRHP ELIGIBLE ARCHAEOLOGICAL SITES INCLUDING SUCH FEATURES AS CHIMNEY BASES, FOUNDATIONS/PIERS, WELLS, CELLARS, OR CISTERNS ON HISTORIC SITES AND ROCK SHELTERS, ROCK ART, AND MOUNDS ON PREHISTORIC SITES SHALL BE STRICTLY AVOIDED DURING TIMBERING ACTIVITY. A BUFFER OF AT LEAST 20 FEET (6 M) SHALL BE MAINTAINED AROUND EACH FEATURE.
- IN GENERAL, VEHICLE TRAFFIC, INCLUDING BUT NOT LIMITED TO HEAVY MACHINERY, SHALL BE MINIMIZED TO THE GREATEST EXTENT PRACTICAL ON ANY POTENTIALLY NRHP ELIGIBLE ARCHAEOLOGICAL SITE. ACCESS ROADS SHALL NOT BE ESTABLISHED OVER OR WITHIN 50 FEET OF NRHP ELIGIBLE ARCHAEOLOGICAL SITES.
- STAGING AREA SHALL NOT BE LOCATED ON OR WITHIN 50 FEET OF ANY NRHP ELIGIBLE ARCHEOLOGICAL SITE.

800. NOTICE TO CONTRACTOR: ALL EVIDENT EXISTING UTILITIES ARE SHOWN. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF ALL EXISTING UTILITIES BEFORE INITIATING ANY CONSTRUCTION OPERATIONS. ANY EXISTING STRUCTURE, PIPING OR UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR ENGINEER. THE CONTRACTOR SHALL CALL: ALABAMA LINE LOCATION CENTER, INC., 1-800-292-8525 TWO (2) DAYS BEFORE ANY EXCAVATION ON THIS PROJECT. THIS IS A REQUIREMENT OF ALABAMA ACT 94-487.

900. A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH THE OFFICE ENGINEER PRIOR TO BIDDING.

901. OMIT

902. THERE SHALL BE NO FUEL TANKS STORED ON THE RIGHT OF WAY. IN ADDITION, NO FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC., SHALL BE LEFT UNATTENDED ON THE RIGHT OF WAY.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PROJECT NOTES	ZIERDT ROAD

GENERAL TRAFFIC CONTROL PLAN NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	28

( ) DENOTES NOTES THAT APPLY TO THIS PROJECT

(700) 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 PAID FOR UNDER THE APPROPRIATE PAY ITEM.

(701) ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPES IV OR VIII FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

(702) 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. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET 44)

(703) 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.

(704) 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. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

705 DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC, EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

(707) 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.

(708) 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.

(709) THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

(710) CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

(711) 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.

(712) FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

713 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.

714 OMITTED

(715) 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 WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

(716) 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.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

719 OMITTED

(720) ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

723 THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMIT

(725) ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

726 OMITTED

727 DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

728 A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

(729) 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.

730 OMITTED

731 OMITTED

(732) CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

(733) CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC SHOULD BE SPACED AT 50 FOOT INTERVALS.

734 CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS SHOULD BE SPACED AT 50 FOOT INTERVALS.

735 CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

736 CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

(737) CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

(739) THE QUANTITIES SHOWN IN THE TRAFFIC CONTROL SUMMARY BOX ARE CONSIDERED TO BE THE MINIMUM REQUIREMENT FOR HANDLING TRAFFIC AT ANY GIVEN TIME DURING CONSTRUCTION.

(740) LIGHTWEIGHT TYPE B WARNING LIGHTS (WEIGHING 3.3 POUNDS OR LESS) WITH DETACHABLE HEADS MAY BE USED ON DRUMS IN SPECIAL SITUATIONS AS SHOWN ON THE PLANS. TYPE B WARNING LIGHTS WITH DETACHABLE HEADS USED ON BARRICADES SHALL BE LIGHTWEIGHT (WEIGHING 3.3 POUNDS OR LESS). ANY HEAVYWEIGHT WARNING LIGHTS ON BARRICADES MUST BE CERTIFIED BY THE VENDOR AS TO CRASHWORTHINESS OF THE BARRICADE AND WARNING LIGHT COMBINATION.

741 FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

742 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 TRAVEL LANES.

743 OMITTED

(744) 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.

745 OMITTED

746 UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

747 MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 AND R16-4 SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THEY SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT. AN R2-1 SIGN SHALL ALWAYS BE REQUIRED FOLLOWING AN R16-3 SIGN. ADDITIONAL R16-3 SIGNS SHALL BE POSTED AT MAXIMUM THREE MILE INTERVALS THROUGHOUT THE PROJECT LIMITS. ADDITIONAL R16-3 SIGNS SHALL BE REQUIRED WITH A W3-5b (REDUCED SPEED AHEAD)SIGN AND R2-1 SIGNS WHENEVER A REDUCTION ON SPEED IS REQUIRED FOR A WORK AREA SUCH AS A LANE CLOSURE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL COVER OR REMOVE THE R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS WHEN A SPEED REDUCTION THROUGH THE CONSTRUCTION WORK ZONE IS NOT REQUIRED AND THE CONSTRUCTION ACTIVITY AND/OR LOCATION OF WORK ACTUALLY BEING PERFORMED DOES NOT PRESENT A CLEAR AND PRESENT DANGER TO CONSTRUCTION WORKERS OR THE TRAVELING PUBLIC.

749 DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM WITH A LIGHTWEIGHT TYPE B WARNING LIGHT (WEIGHING 3.3 POUNDS OR LESS) WITH A DETACHABLE HEAD 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.

(750) CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23. SINGULAR OR DUAL 4 X 4 WOOD POSTS ARE CONSIDERED BREAKAWAY.

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

GENERAL TRAFFIC CONTROL PLAN NOTES

DRAWN BY: DATE DRAWN: 3-12-2012

SPECIAL DRAWING NO. SPECIAL PROJECT DETAIL

PAGE NO. 2000

PLAN SUBMITTAL

ALABAMA DEPARTMENT OF TRANSPORTATION

SHEET TITLE	ROUTE
GENERAL TRAFFIC CONTROL PLAN NOTES	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	3

SUMMARY OF QUANTITIES
PROJECT NO. STPHV-8507(600)
MADISON COUNTY

PROJECT NOTES
301, 302, 303
304

ROADWAY	TOTAL	ITEM NUMBER	UNIT	ITEM DESCRIPTION
1	1	201A-002	LUMP SUM	CLEARING & GRUBBING (MAXIMUM BID LIMITED TO $3500.00 PER ACRE) (APPROXIMATELY 48ACRES)
19714	19714	206D-011	LIN FT	REMOVING FENCE
4000	4000	210A-000	CU YD	UNCLASSIFIED EXCAVATION
2000	2000	210D-001	CU YD	BORROW EXCAVATIONW (LOOSE TRUCKBED MEASUREMENT)
237	237	214A-000	CU YD	STRUCTURE EXCAVATION
85	85	214B-001	CU YD	FOUNDATION BACKFILL,COMMERCIAL
500	500	244A-000	SQ YD	SOIL STABILIZATION GEOTEXTILE FABRIC
9279	9279	502A-000	LBS	STEEL REINFORCEMENT
78	78	524A-011	CU YD	CULVERT CONCRETE (CAST IN PLACE)
20	20	533A-101	LIN FT	36" STORM SEWER PIPE (CLASS 3 R.C.)
1	1	600A-000	LUMP SUM	MOBILIZATION
100	100	610C-001	TON	LOOSE RIPRAP,CLASS 2
220	220	610C-002	TON	LOOSE RIPRAP,CLASS 3
825	825	6100-003	SQ YD	FILTER BLANKET,GEOTEXTILE
2	2	619A-055	EACH	36" ROADWAY PIPE END TREATMENT,CLASS 2
19516	19516		LIN FT	SPECIAL PAY ITEM - INDUSTRIAL FENCE,6 FEET HIGH PLUS BARBED WIRE (45 DEGREE ARMS)
2	2		EACH	SPECIAL PAY ITEM - GATE,14 FEET WIDE,COMPLETE WITH FITTINGS (WITH BARBED WIRE)
22843	22843	650A-000	CU YD	TOPSOIL
48	48	652A-100	ACRE	SEEDING
10000	10000	654A-000	SQ YD	SOLID SODDING
48	48	656A-010	ACRE	MULCHING
2000	2000	659A-033	SQ YD	ROLLED EROSION CONTROL PRODUCT,TYPE (2A)
48	48	665A-000	ACRE	TEMPORARY SEEDING
144	144	665B-001	TON	TEMPORARY MULCHING (3 TONS/ACRE)
2000	2000	665E-000	SQ YD	POLYETHYLENE
500	500	665G-000	EACH	SAND BAGS
500	500	665I-000	TON	TEMPORARY RIP RAP,CLASS 2
14021	14021	665J-002	LIN FT	SILT FENCE
35	35	665K-000	CU YD	DRAINAGE SUMP EXCAVATION
273	273	665N-000	TON	TEMPORARY COARSE AGGREGATE,ALDOT NUMBER 1
14021	14021	665O-001	LIN FT	SILT FENCE REMOVAL
1900	1900	665O-002	LIN FT	WATTLE
300	300	674A-000	LIN FT	CONSTRUCTION SAFETY FENCE
1	1	680A-001	LUMP SUM	GEOMETRIC CONTROLS
1	1	698A-000	LUMP SUM	CONSTRUCTION FUEL (MAXIMUM BID LIMITED TO $
754	754	740B-000	SQ FT	CONSTRUCTION SIGNS
400	400	740D-000	EACH	CHANNELIZING DRUMS
50	50	740E-000	EACH	CONES (36" HIGH)
50	50	740M-001	EACH	BALLAST FOR CONE

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		SUMMARY OF QUANTITIES	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	3A

SUMMARY OF QUANTITIES
PROJECT NO. STPHV-8507(600)
MADISON COUNTY

LEGEND	
A	RPC-930
B	FE-614
C	MW-614-B
D	MW-614-B(PC)
E	SEE SHEET 63B
F	SEE SHEET 63D
G	SEE SHEET 63-1
H	SEE SHEET 63J
I	SEE SHEET 63K
J	OMIT
K	OMIT
L	OMIT
M	CI
N	CS-3-1
O	S-C-1
P	SEE SHEET 41
Q	SEE SHEET 41A

REQUIRED REINFORCED CONCRETE CULVERT (CIP)

ALIGNMENT	DRAINAGE STRUCTURE INDEX NUMBER	PLAN SHEET	DRAINAGE CROSS SECTION SHEET	STATION	SIZE	LENGTH	FILL HEIGHT (FT)	SKEW	CULVERT CONCRETE (CU YD) 524A-011 (CAST-IN-PLACE)	STEEL REINFORCEMENT (POUND) 502A-000	STRUCTURE EXCAVATION (CU YD) 214A-000	FOUNDATION BACKFILL (COMMERCIAL) (CU YD) 214B-001	STANDARD OR SPECIAL DRAWINGS	REMARKS
ZIERDT RD.	3 - 4	14	40	157+64.39	CD 8' X4'	44	0-3'	15°00' 00"	78	9279	214	77	B, C, M, N, P, Q, R	
TOTAL:						44			78	9279	214	77		

REQUIRED DRAINAGE SUMMARY

ALIGNMENT	DRAINAGE STRUCTURE INDEX NUMBER	PLAN SHEET	DRAINAGE CROSS SECTION SHEET	STATION	SKEW	SIDE	STORM SEWER PIPE (CL. 3 R.C.) 305-101			RE-ROUNDAY PIPE (TYPE 2) CLASS 2 ITEM NO. 619A-035			STRUCTURE EXCAVATION ITEM NO. 214A-000	FOUNDATION BACKFILL ITEM NO. 214B-001	STANDARD OR SPECIAL DRAWING	REMARKS
							LIN FT			EACH			CU YD	CU YD		
ZIERDT RD.	1 - 2	11	39	114+00.00	--	RT	20			2			23	8	A, B, C, D	
						TOTAL:	20			2			23	8		

FENCE REMOVAL

LOCATION	SIDE	STATION	2060-011 LENGTH (FEET)		REMARKS
ZIERDT RD.	RT	10+00 TO 19+39	939		E, F
ZIERDT RD.	RT	20+60 TO 178+21	15761		E, F
ZIERDT RD.	RT	52+72 TO 52+83	55		G, H, I
ZIERDT RD.	RT	70+64 TO 70+67	46		G, H, I
ZIERDT RD.	RT	72+45 TO 72+46	43		G, H, I
ZIERDT RD.	RT	79+70 TO 79+75	58		G, H, I
ZIERDT RD.	RT	138+00 TO 138+25	38		G, H, I
ZIERDT RD.	RT	185+20 TO 185+30	44		G, H, I
MARTIN RD.	RT	172+49 TO 186+22	1373		E, F
MARTIN RD.	LT	172+71 TO 186+28	1357		E, F
TOTAL			19714		

REQUIRED SECURITY FENCE AND GATE

LOCATION	SIDE	STATION	SPECIAL PAY ITEM SECURITY FENCE LENGTH (FEET)	SPECIAL PAY ITEM SECURITY FENCE GATE EACH	REMARKS
ZIERDT RD.	RT	8+00 TO 18+98.52	1099		E
ZIERDT RD.	RT	20+78.55 TO 112+90	9211		E
ZIERDT RD.	RT	112+90 TO 113+02		1	F
ZIERDT RD.	RT	113+02 TO 126+80	1378		E
ZIERDT RD.	RT	126+80 TO 126+91		1	F
ZIERDT RD.	RT	126+91 TO 178+20.48	5190		E
MARTIN RD.	RT	173+82.89 TO 186+83.49	1301		E
MARTIN RD.	LT	187+15.79 TO 173+78.60	1337		E
TOTAL			19516	2	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		SUMMARY OF QUANTITIES	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	3B

SUMMARY OF QUANTITIES
PROJECT NO. STPHV-8507(600)
MADISON COUNTY

LEGEND	
A:	ESC-100
B:	ESC-200
C:	ESC-300
D:	ESC-500
E:	SHEET 41B
F:	SHEET 41C

REQUIRED EROSION AND SEDIMENT CONTROL QUANTITIES

LOCATION	STATION	SIDE	SILT FENCE	SILT FENCE REMOVAL	DRAINAGE SUMP EXCAVATION	TEMPORARY RIP RAP CL. 2	WATTLE	FILTER BLANKET GEOTEXTILE	SOLID SODDING	SEEDING	MULCHING	ROLLED EROSION CONTROL PRODUCT (TYPE 2A)	POLYETHYLENE	SAND BAGS	TEMPORARY COARSE AGGREGATE (ALDOT #1)	LOOSE RIPRAP CLASS 3	SPECIAL OR STANDARD DRAWING
			665J-002	665Q-001	665K-000	665I-000	665Q-002	6100-003	654A-000	652A-100	656A-010	654A-033	665E-000	665G-000	665N-000	610C-002	
			LIN FT	LIN FT	CU YD	TON	LIN FT	SQ YD	SQ YD	ACRE	ACRE	SQ YD	SQ YD	EACH	TON	TON	
ZIERDT RD.	17+10 - 19+30	RT	220	220													A,B
	44+00 - 48+00	RT	400	400													A,B
	45+00 - 59+00	RT	1400	1400													A,B
	94+50 - 101+00	RT	650	650													A,B
	105+00 - 112+00	RT	700	700													A,B
	113+00 - 140+00	RT	2700	2700													A,B
	132+00 - 140+00	RT	800	800													A,B
	132+00 - 136+00	RT	400	400													A,B
	147+40 - 157+00	RT	960	960													A,B
	157+00 - 158+00	RT	250	250													A,B
	159+75 - 165+65	RT	590	590													A,B
	163+40 - 166+00	RT	3951	3951													A,B
	169+00 - 177+00	RT	800	800													A,B
	33+70	RT			21												A,B
	79+72	RT			7												A,B,C
	93+93	RT			7												A,B,C
	10+70	RT						95									A,B,C
	26+27	RT						95							39		D
	50+78	RT						95							39		D
	85+85	RT						95							39		D
	106+00	RT						95							39		D
	150+40	RT						95							39		D
	175+70	RT						95							39		D
	157+30	RT						160							39		D
																220	E
MARTIN RD.	173+00 - 175+00	RT	200	200													A,B,C
ENTIRE PROJECT						500	1900		10000	48	48	2000	2000	500			A,B,C,D,E,F
		TOTAL:	14021	14021	35	500	1900	825	10000	48	48	2000	2000	500	273	220	

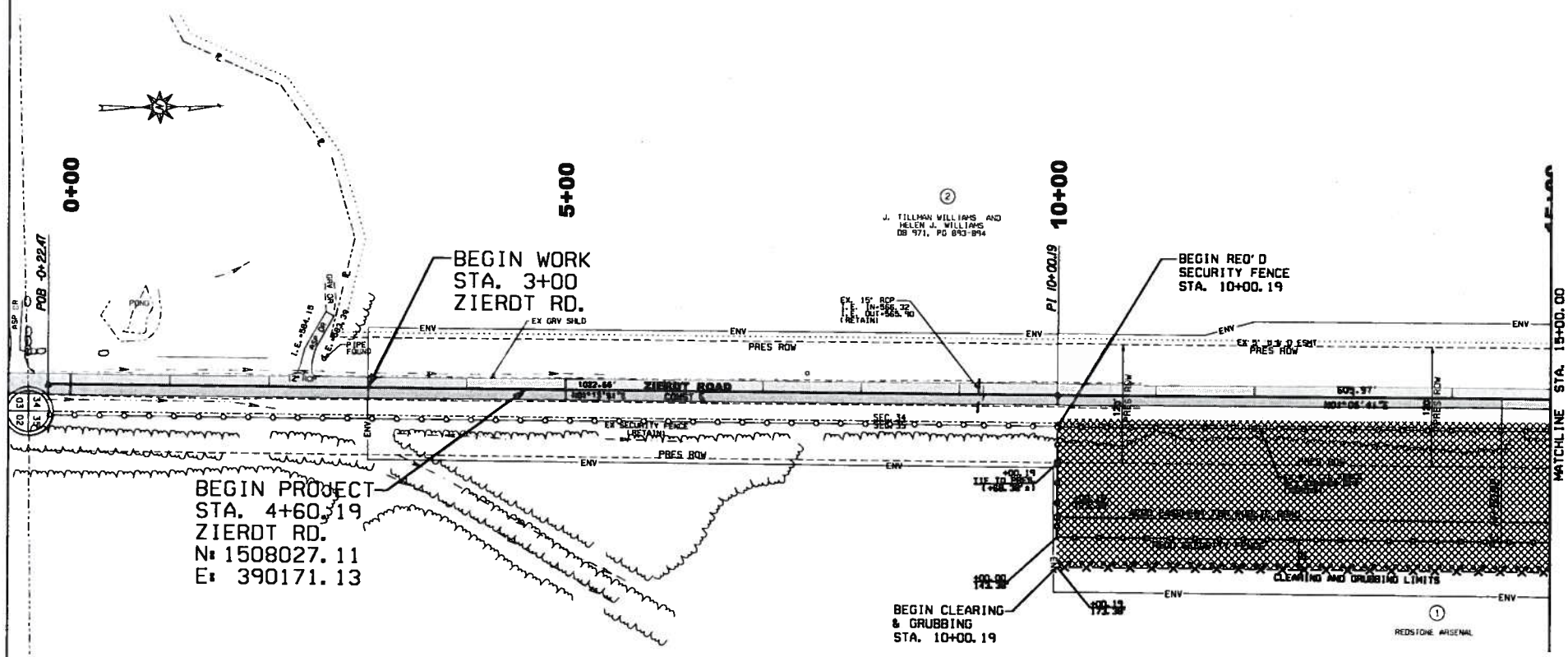
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		SUMMARY OF QUANTITIES	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	4

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



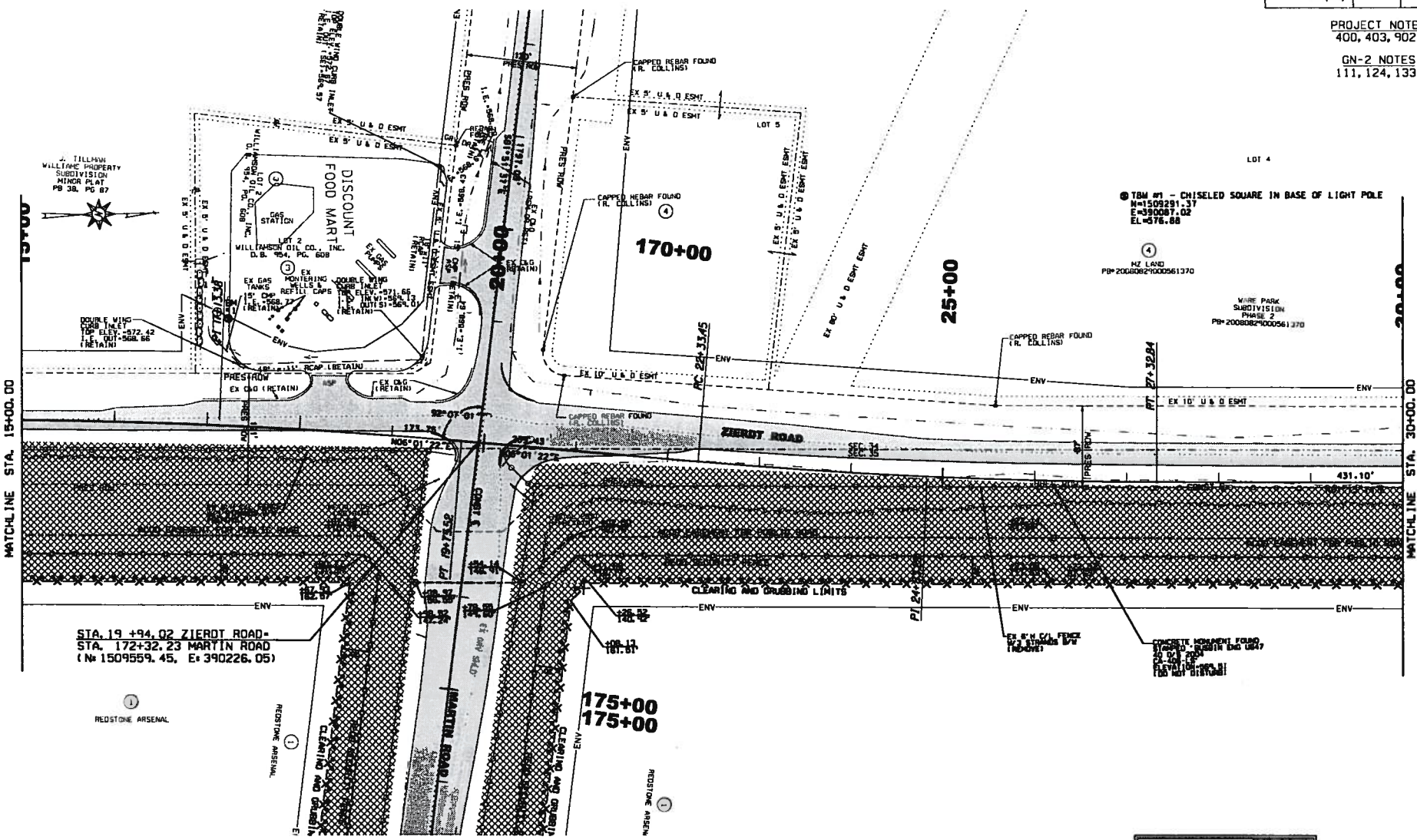
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN SHEET STA 10+00 TO STA 15+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	5

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



NOTE: SEE SHEET 18 FOR MARTIN ROAD PLAN SHEET

EXIST. PVMT. (RETAIN)
REQD CLEARING AND GRUBBING AREA

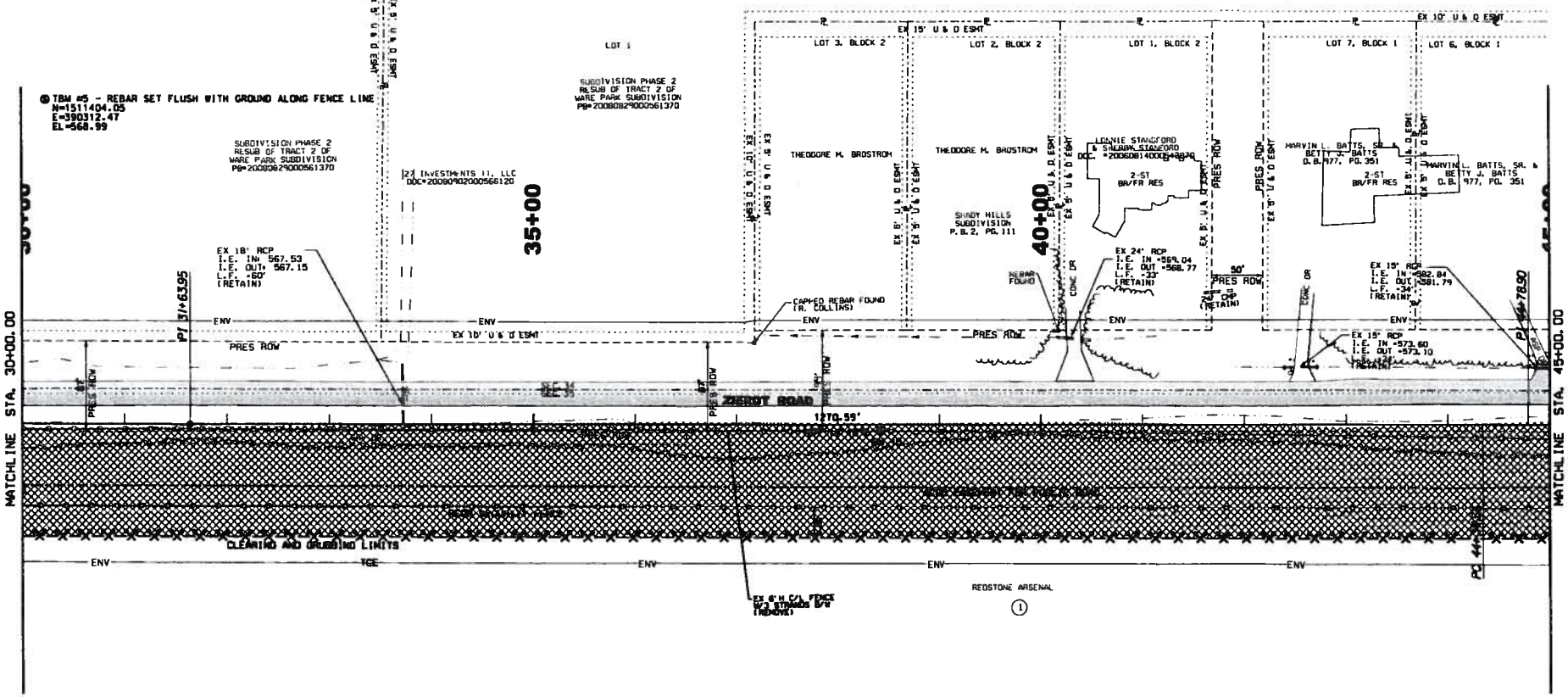
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN SHEET STA 15+00 TO STA 30+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	6



EXIST. PVMT. (RETAIN)
REDO CLEARING AND GRUBBING AREA

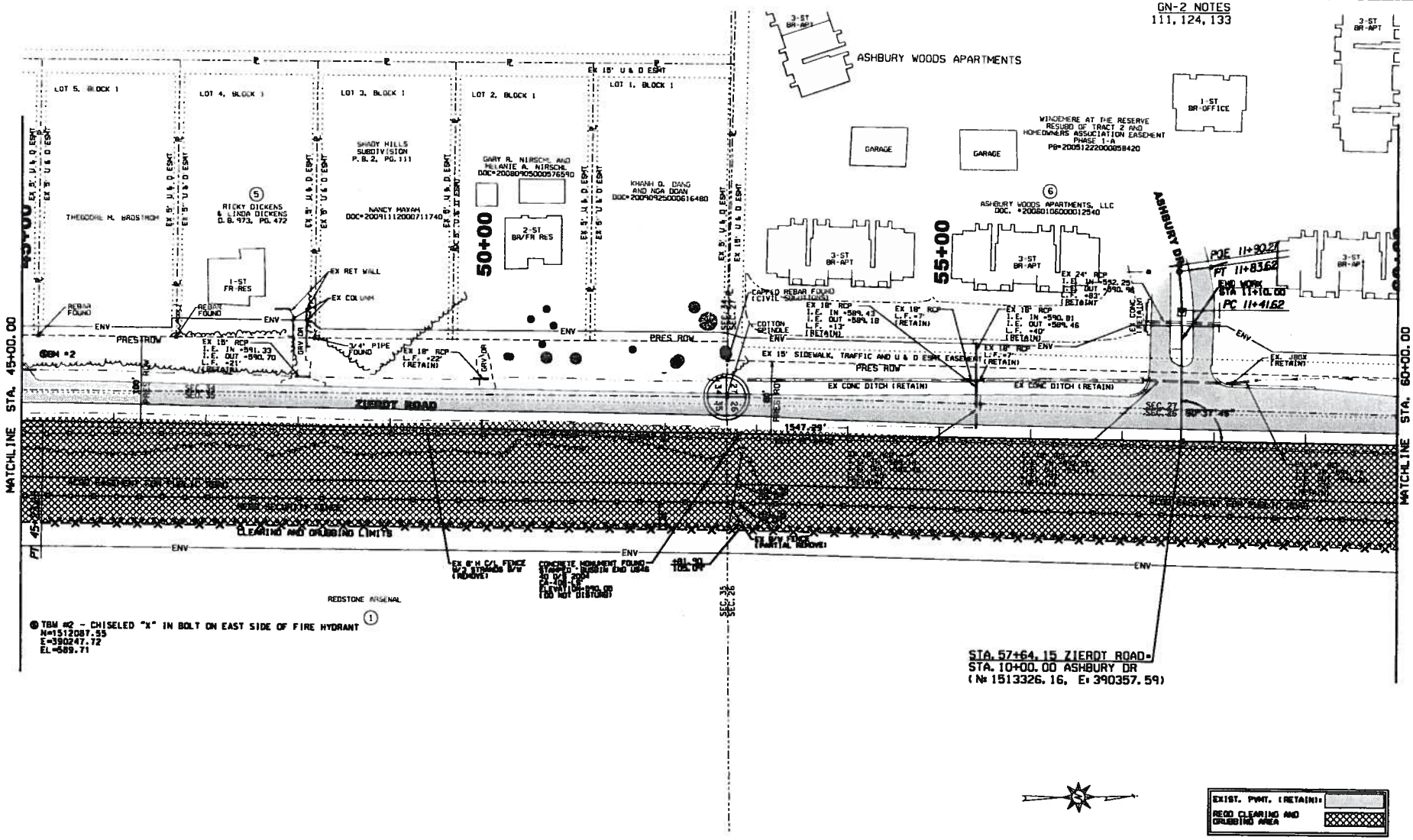
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100	SCALE (FEET)	VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC				PLAN SHEET STA 30+00 TO STA 45+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	7

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



TBM #2 - CHISELED "X" IN BOLT ON EAST SIDE OF FIRE HYDRANT
N=1512087.55
E=390247.72
EL=589.71

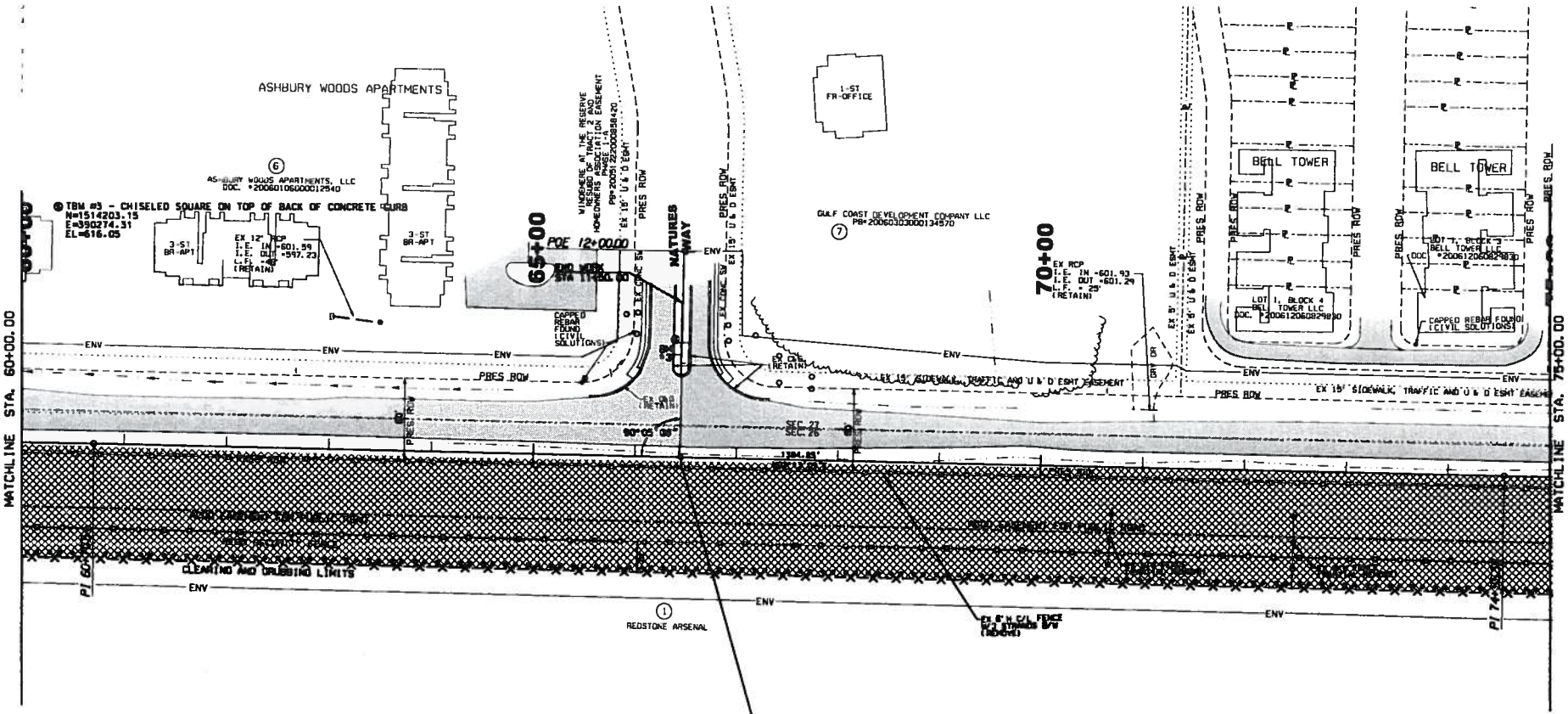
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN SHEET STA 45+00 TO STA 60+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	8



EXIST. PVMT. (RETAIN):
REDO CLEARING AND GRUBBING AREA

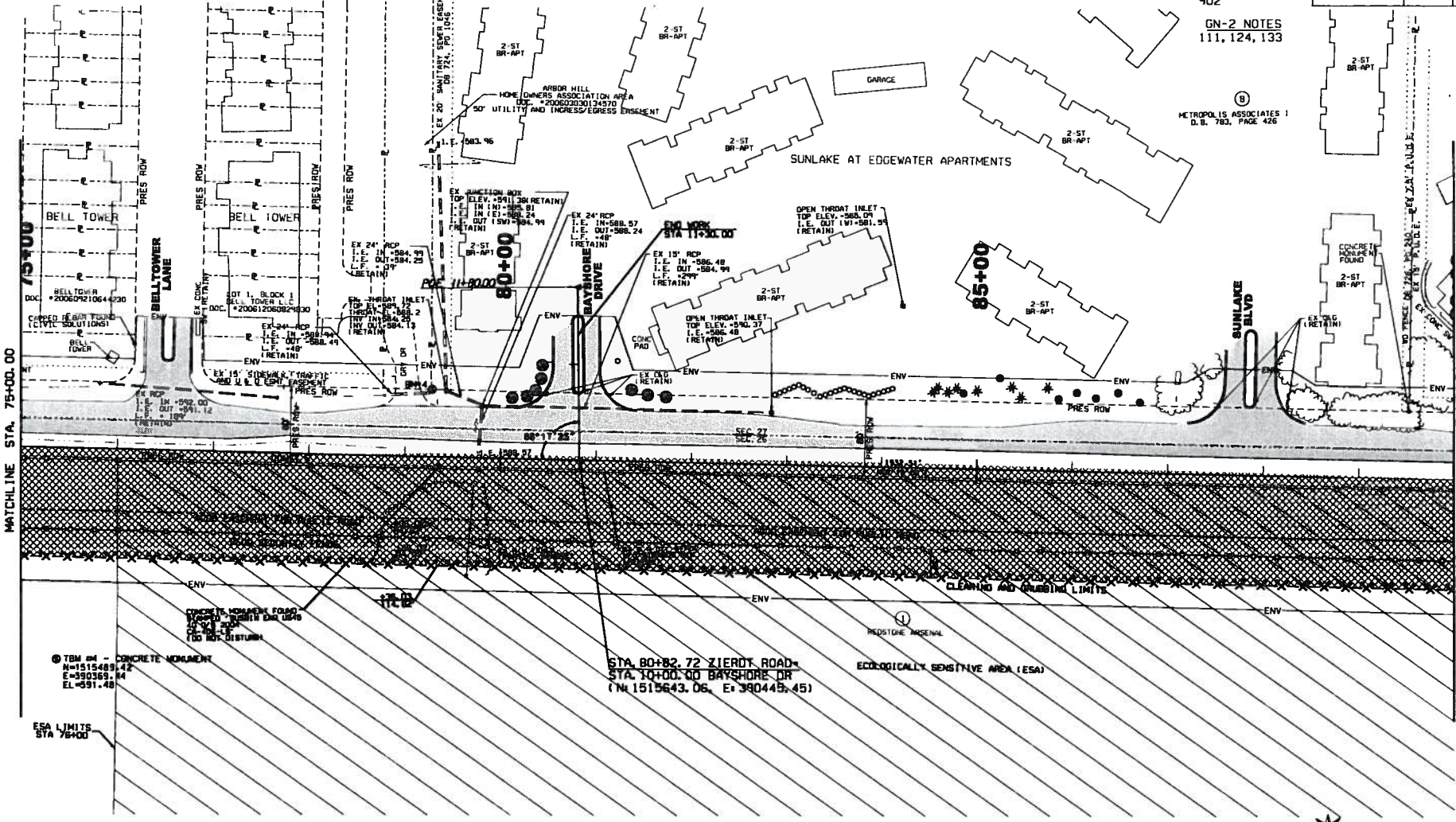
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN SHEET STA 60+00 TO STA 75+00 ZIEROT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	9

PROJECT NOTES
400, 401, 403
902

GN-2 NOTES
111, 124, 133



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

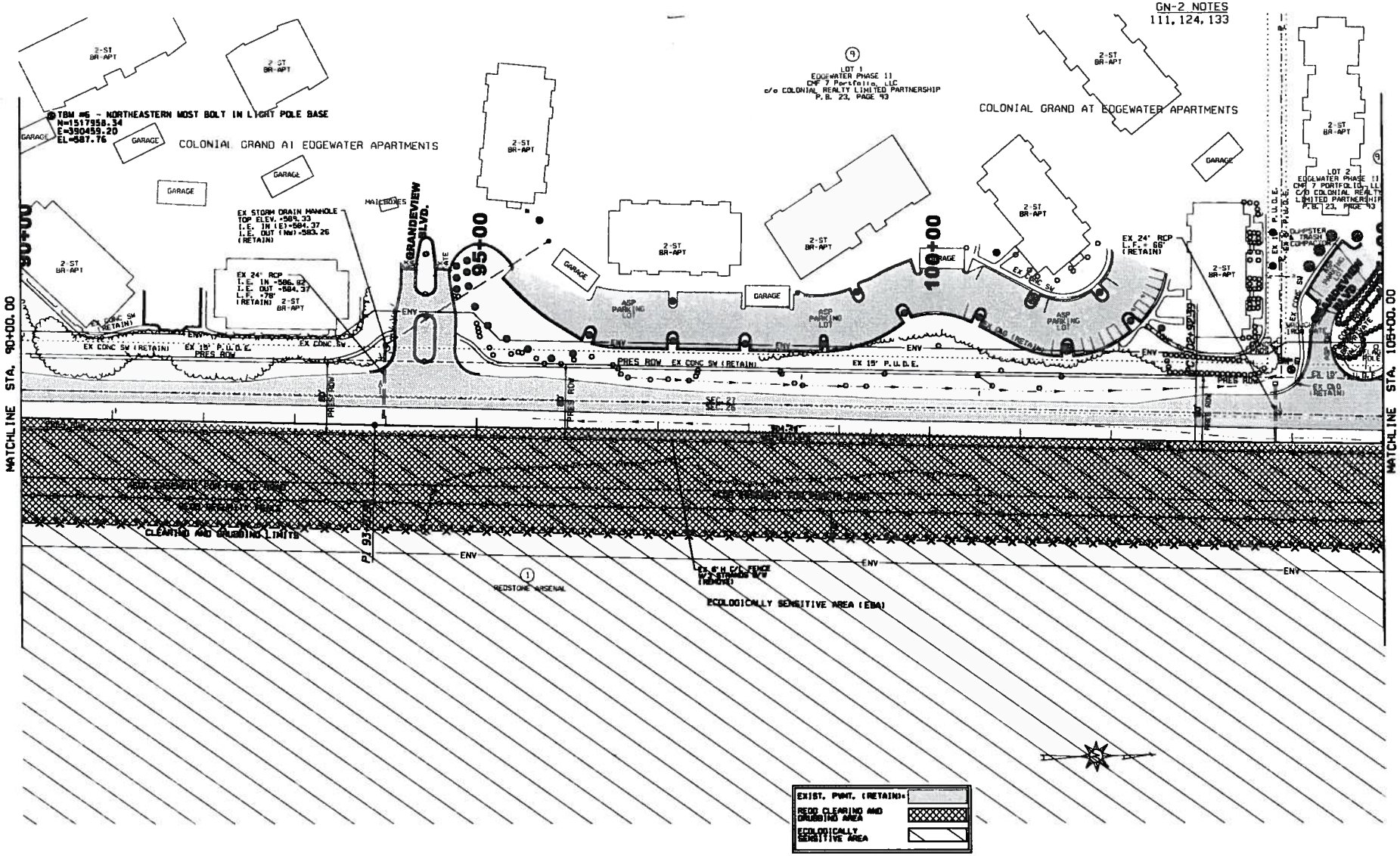
SHEET TITLE	ROUTE
PLAN SHEET STA 60+00 TO STA 75+00 ZIEROT ROAD	ZIEROT ROAD

PLAN SHEET

PROJECT NOTES
400, 401, 403
902

GN-2 NOTES
111, 124, 133

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-HV-8507(800)	2013	10



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

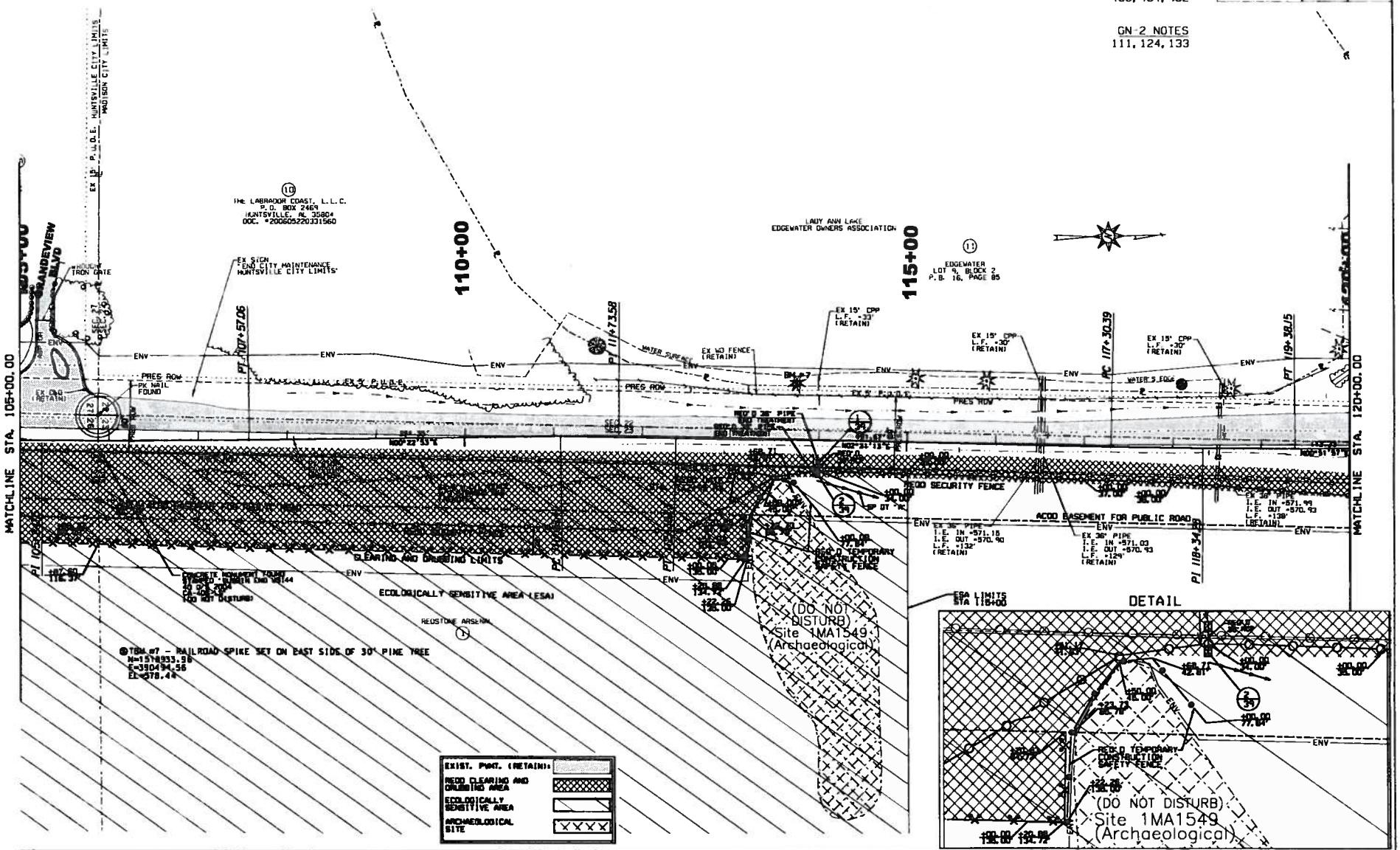
SHEET TITLE	ROUTE
PLAN SHEET STA 105+00 TO STA 90+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	11

PROJECT NOTES
400, 401, 402
403, 404, 902

GN-2 NOTES
111, 124, 133



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

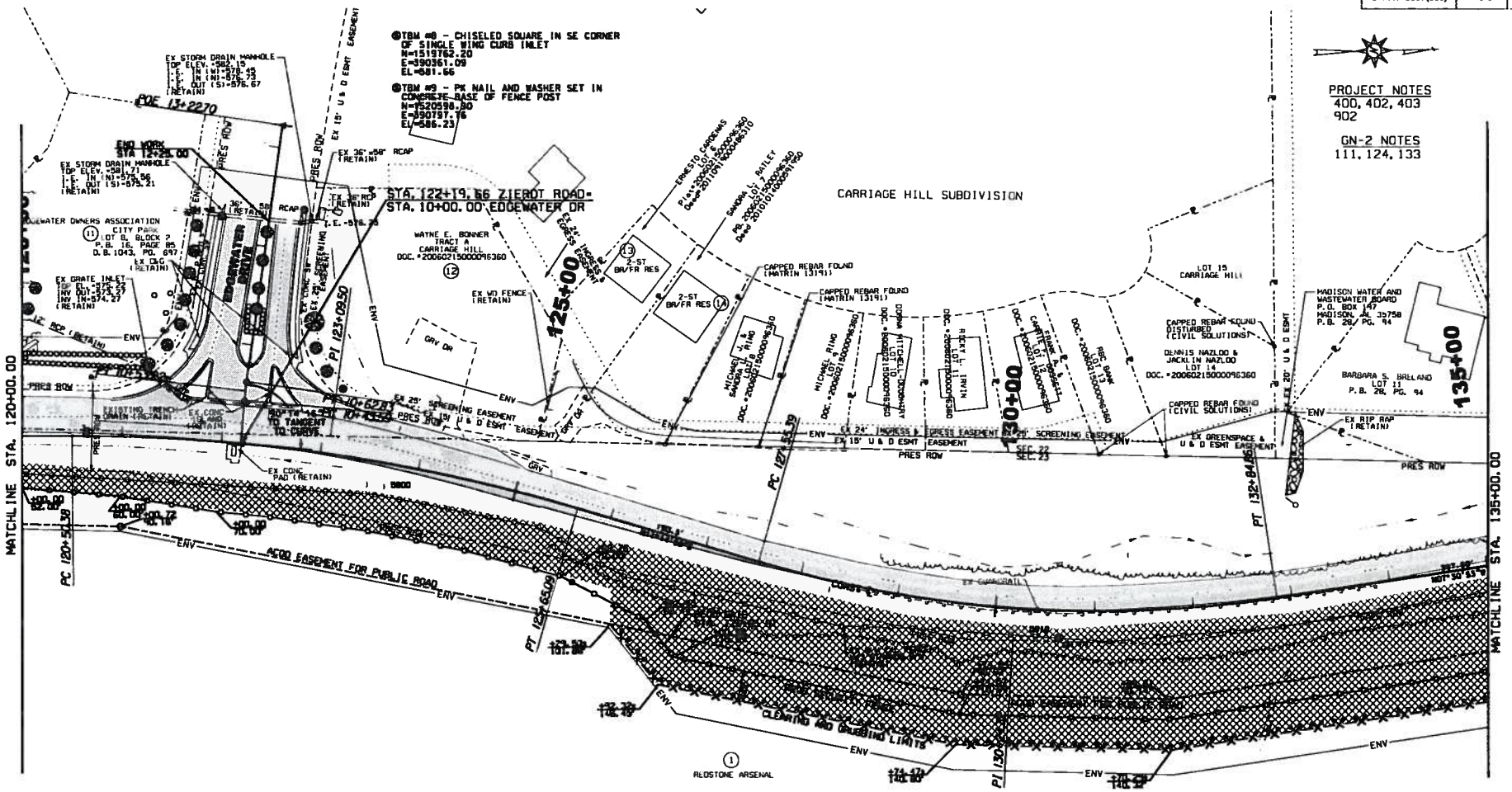
ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

SHEET TITLE	ROUTE
PLAN SHEET STA 105+00 TO STA 120+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	12



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

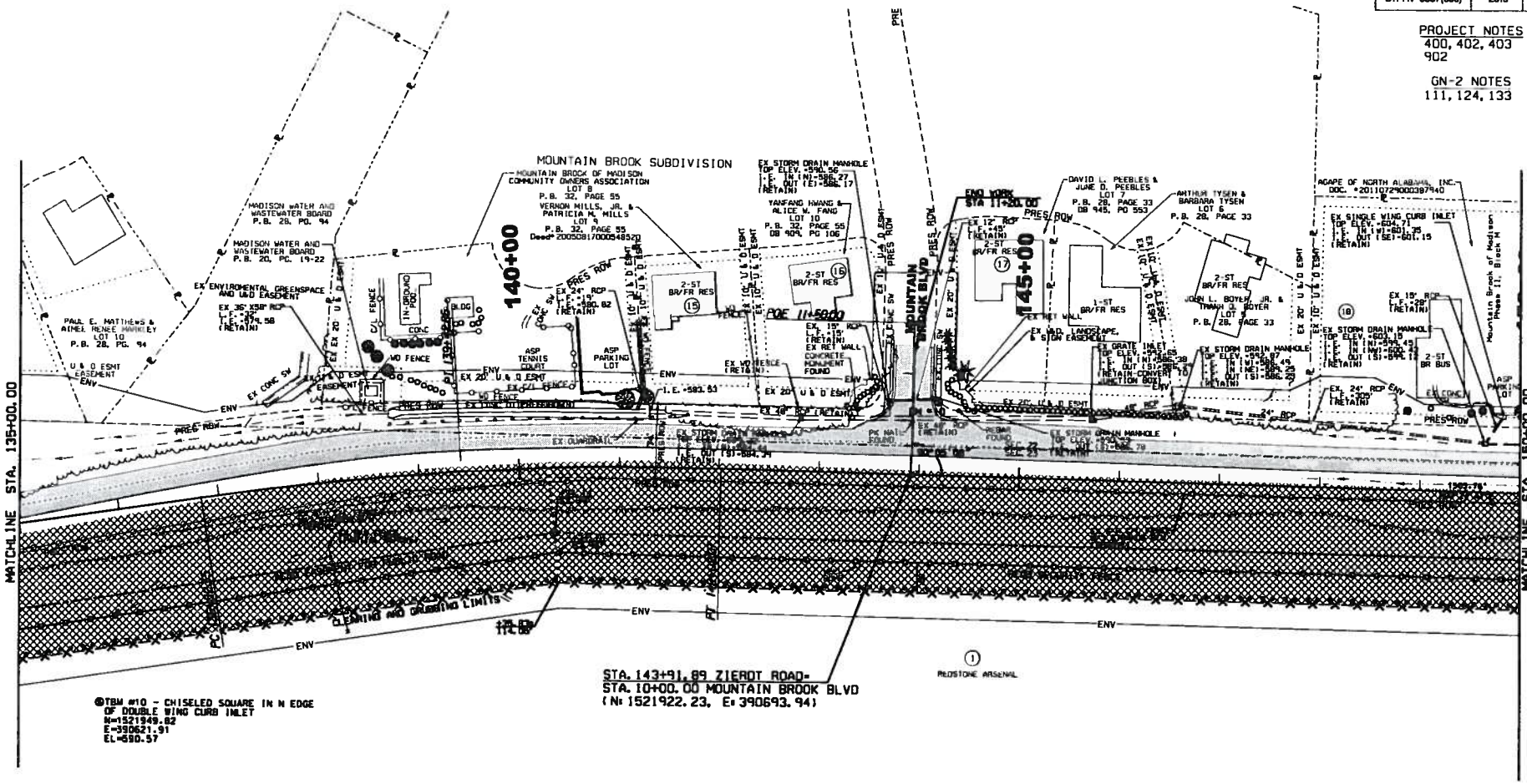
SHEET TITLE	ROUTE
PLAN STA 120+00 TO STA 135+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	13

PROJECT NOTES
400, 402, 403
902

GN-2 NOTES
111, 124, 133



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVEL LLC

HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

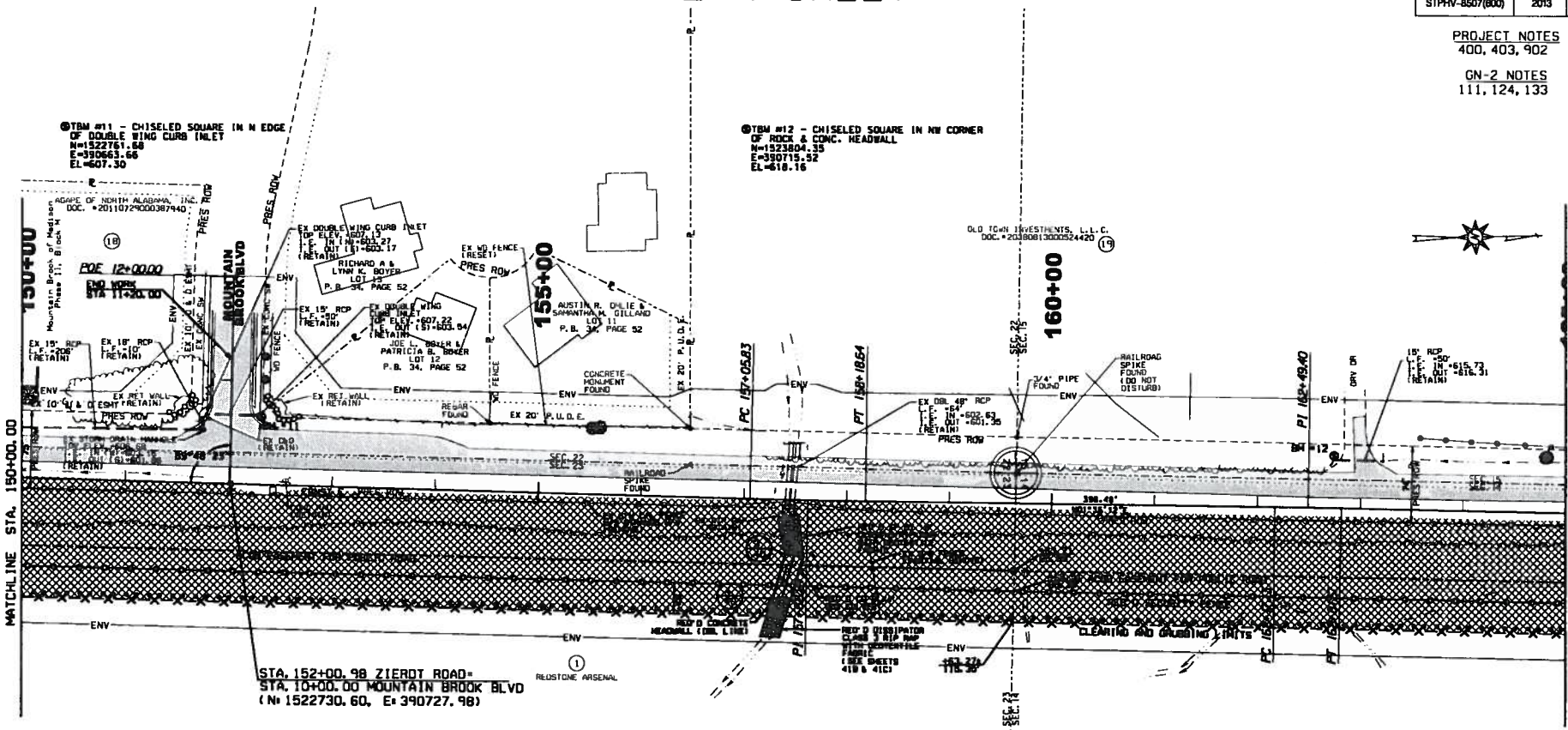
SHEET TITLE	ROUTE
PLAN SHEET STA 135+00 TO STA 150+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	14

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



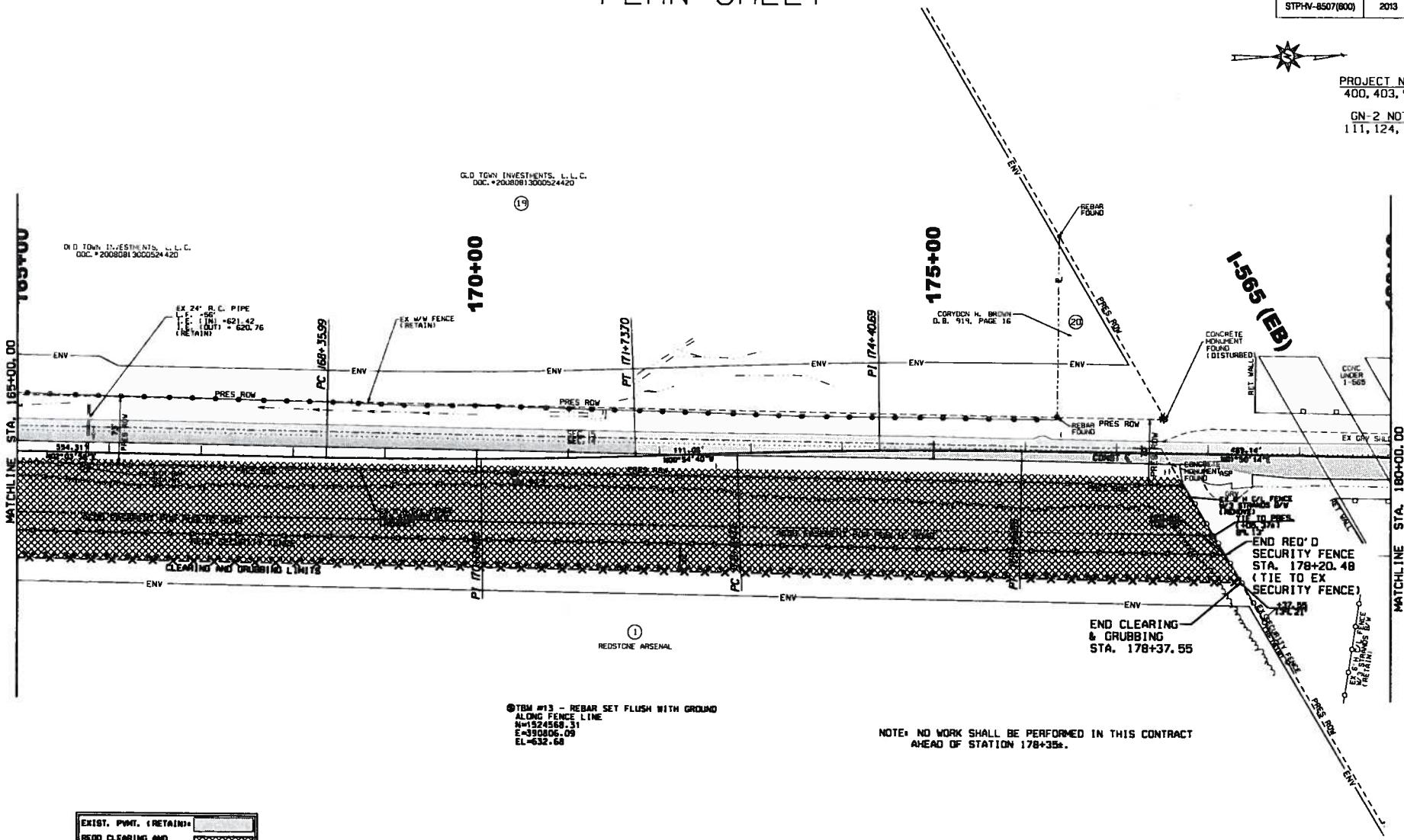
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN SHEET STA 150+00 TO STA 165+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	15

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



TBM #13 - REBAR SET FLUSH WITH GROUND
ALONG FENCE LINE
N=1524568.31
E=390806.09
EL=632.68

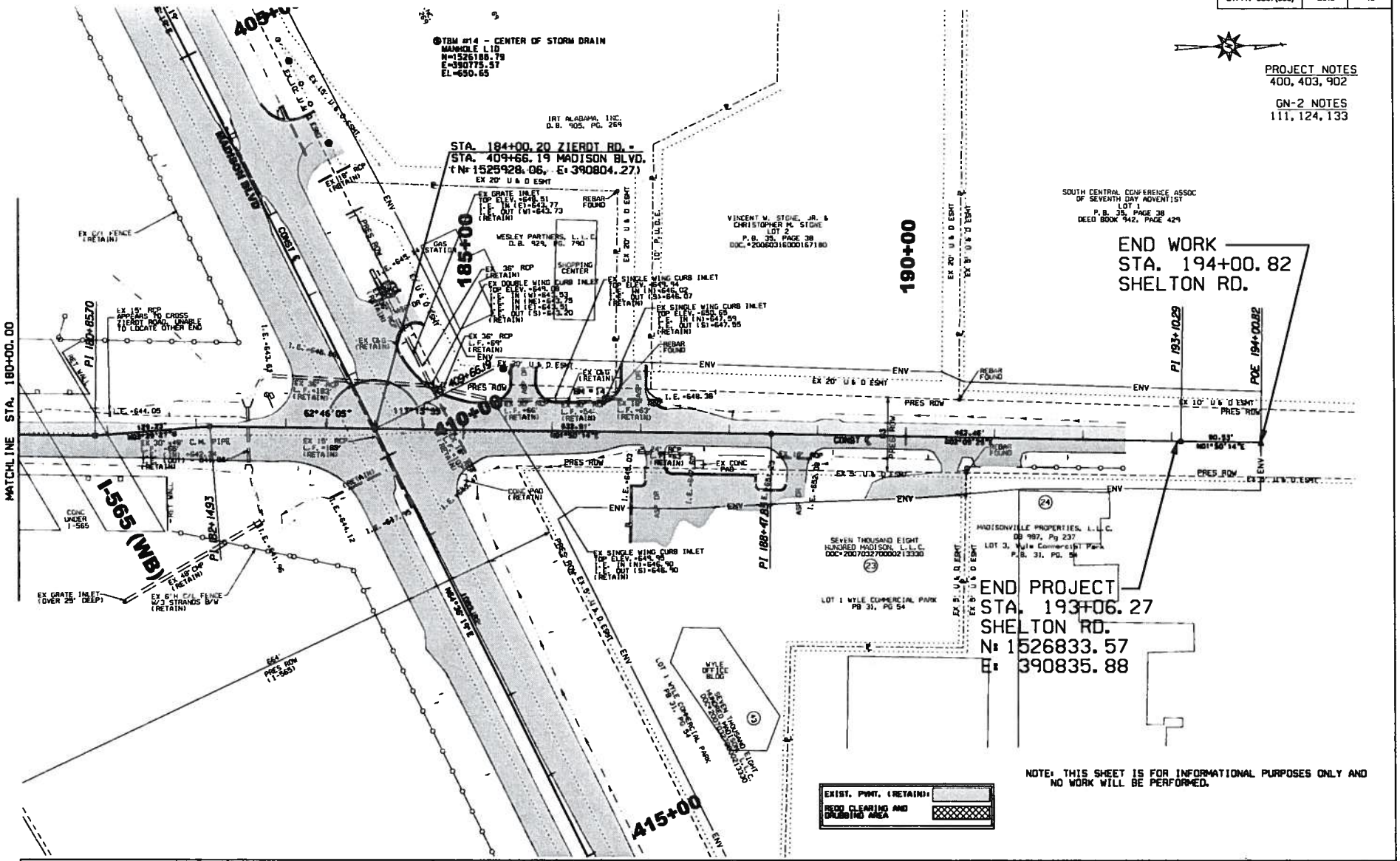
NOTE: NO WORK SHALL BE PERFORMED IN THIS CONTRACT AHEAD OF STATION 178+35±.

EXIST. PVMT. (RETAIN):
REQD CLEARING AND GRUBBING AREA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN STA 120+00 TO STA 180+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	16



NOTE: THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY AND NO WORK WILL BE PERFORMED.

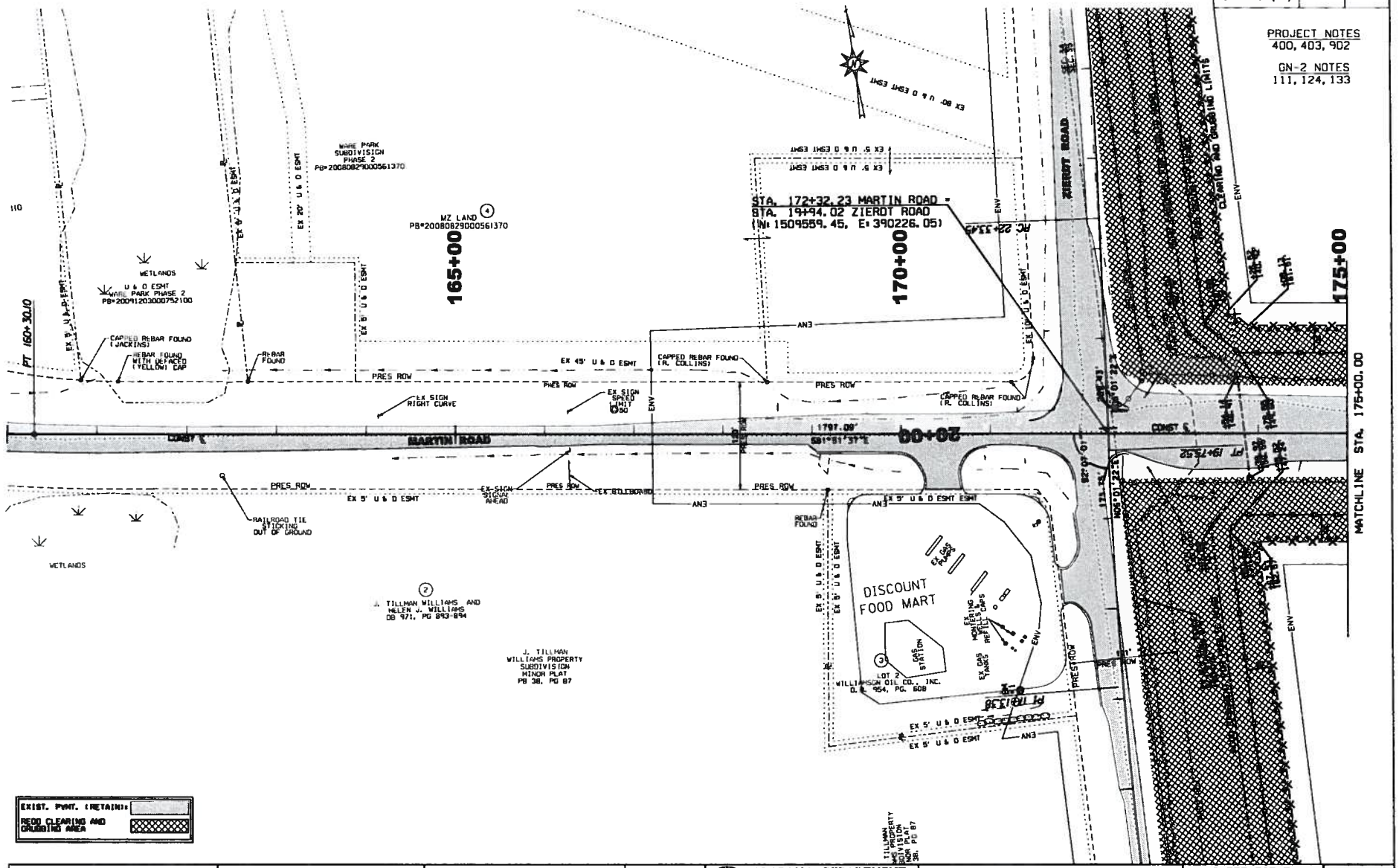
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN STA 180+00 TO STA 194+00 ZIERDT ROAD	ZIERDT ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	17

PROJECT NOTES
400, 403, 902

GN-2 NOTES
111, 124, 133



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

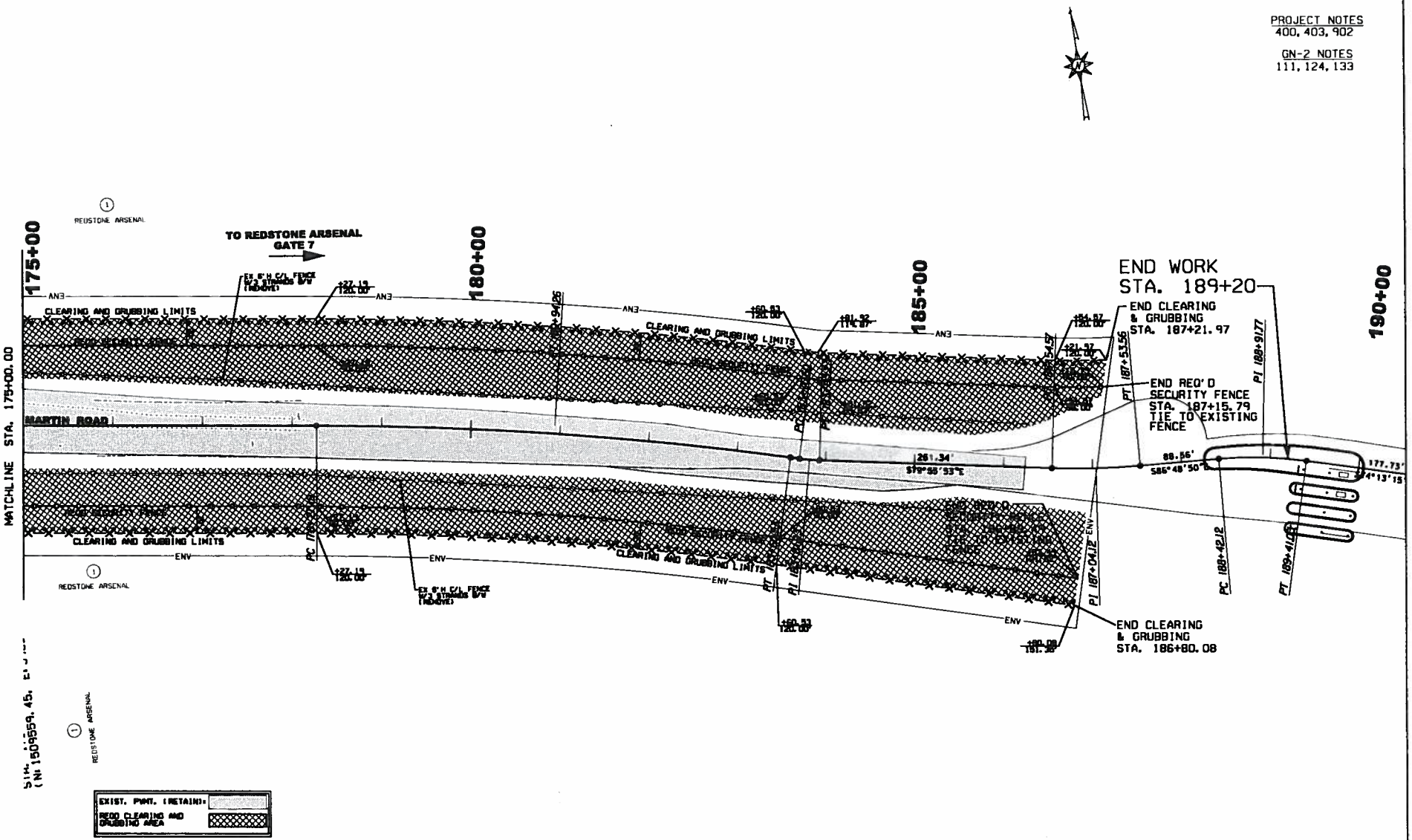
SHEET TITLE	ROUTE
PLAN STA 160+00 TO STA 175+00 MARTIN ROAD	MARTIN ROAD

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	18

PROJECT NOTES
400, 403, 902

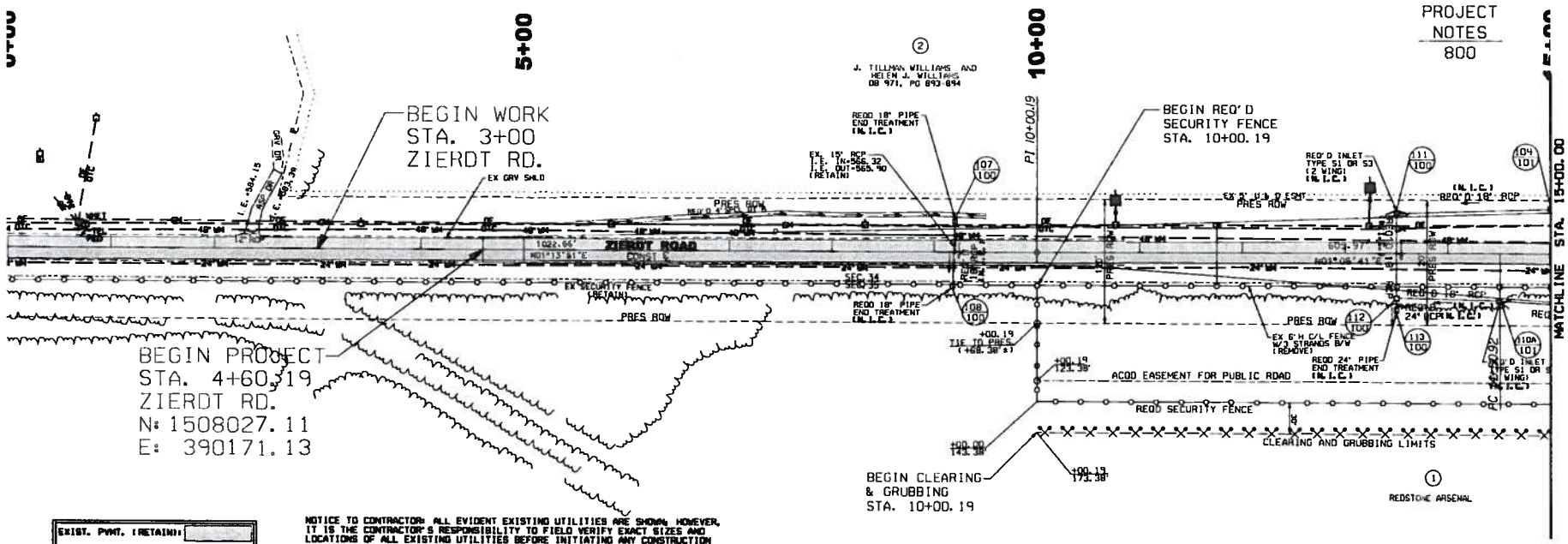
GN-2 NOTES
111, 124, 133



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PLAN STA 175+00 TO STA 189+20 MARTIN ROAD	MARTIN ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	23



EXIST. PVMT. (RETAIN):

PROP. PVMT.

NOTICE TO CONTRACTOR: ALL EVIDENT EXISTING UTILITIES ARE SHOWN; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT SIZES AND LOCATIONS OF ALL EXISTING UTILITIES BEFORE INITIATING ANY CONSTRUCTION OPERATIONS. ANY EXISTING STRUCTURE, PIPING OR UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR ENGINEER. THE CONTRACTOR SHALL CALL: ALABAMA LINE LOCATION CENTER, INC., 1-800-292-8525 TWO (2) DAYS BEFORE ANY EXCAVATION ON THIS PROJECT. THIS IS A REQUIREMENT OF ALABAMA ACT 94-487.

PROPOSED ROADWAY AND REQD DRAINAGE STRUCTURES SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO AID IN UTILITY RELOCATION DESIGN. NO ROADWAY IMPROVEMENTS ASSOCIATED WITH THIS CONTRACT. NO DRAINAGE IMPROVEMENTS ASSOCIATED WITH THIS CONTRACT UNLESS OTHERWISE SHOWN IN PLAN SHEETS 4- 18.

UTILITY OWNERS

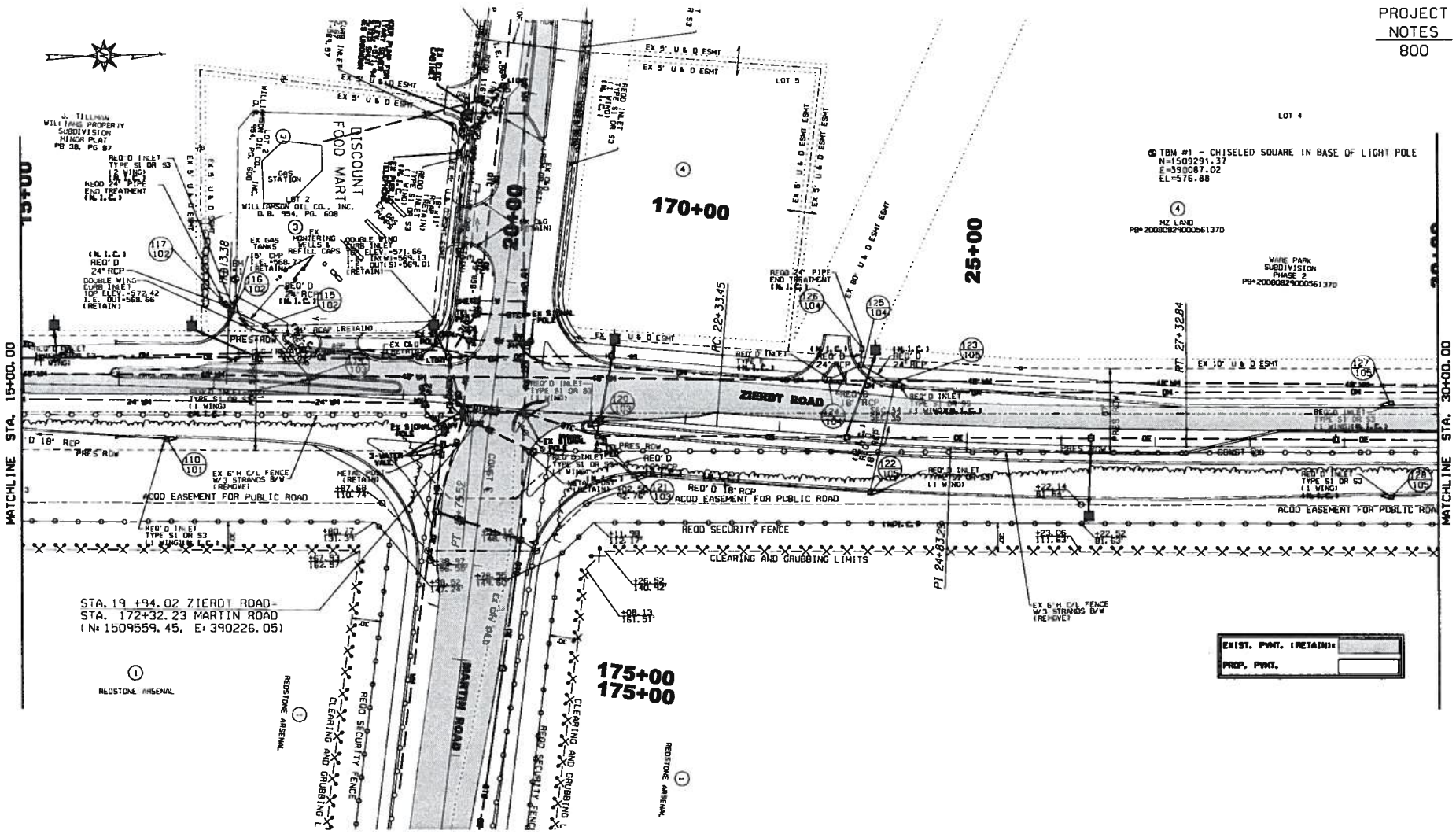
WATER		GAS	TELEPHONE	ELECTRIC	SANITARY SEWER	CABLE	
HUNTSVILLE UTILITIES WATER DEPARTMENT PO BOX 2048 HUNTSVILLE,AL 35804 CONTACT:SAM McELROY (256) 535-1468	MADISON UTILITIES 101 RAY SANDERSON DRIVE MADISON,AL 35758 (256)772-0253	HUNTSVILLE UTILITIES GAS DEPARTMENT PO BOX 2048 HUNTSVILLE,AL 35804 CONTACT:PAUL SIMMONS (256) 535-1223	AT&T ALABAMA 308 CLINTON AVE W HUNTSVILLE,AL 35801-5527 CONTACT:BRIAN WITTER (256) 532-8094	HUNTSVILLE UTILITIES ELECTRIC DEPARTMENT PO BOX 2048 HUNTSVILLE,AL 35804 CONTACT:TOMMY GIBB (256) 535-1308	HUNTSVILLE PUBLIC WORKS PO BOX 308 HUNTSVILLE,AL 35804 CONTACT: (256) 532-7344	KNOLOGY 915 MILLER BLVD MADISON,AL 25758-1307 CONTACT:BLAKE BORDEN (256)772-3351 EXT 104	COMCAST 2047 MAX LUTHER DR NW HUNTSVILLE,AL 35810 CONTACT:MARK HULIN (256) 850-3165

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100	SCALE (FEET)	VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC				UTILITY SHEET STA 10+00 TO STA 15+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV 8507(600)	2013	24

PROJECT NOTES
800

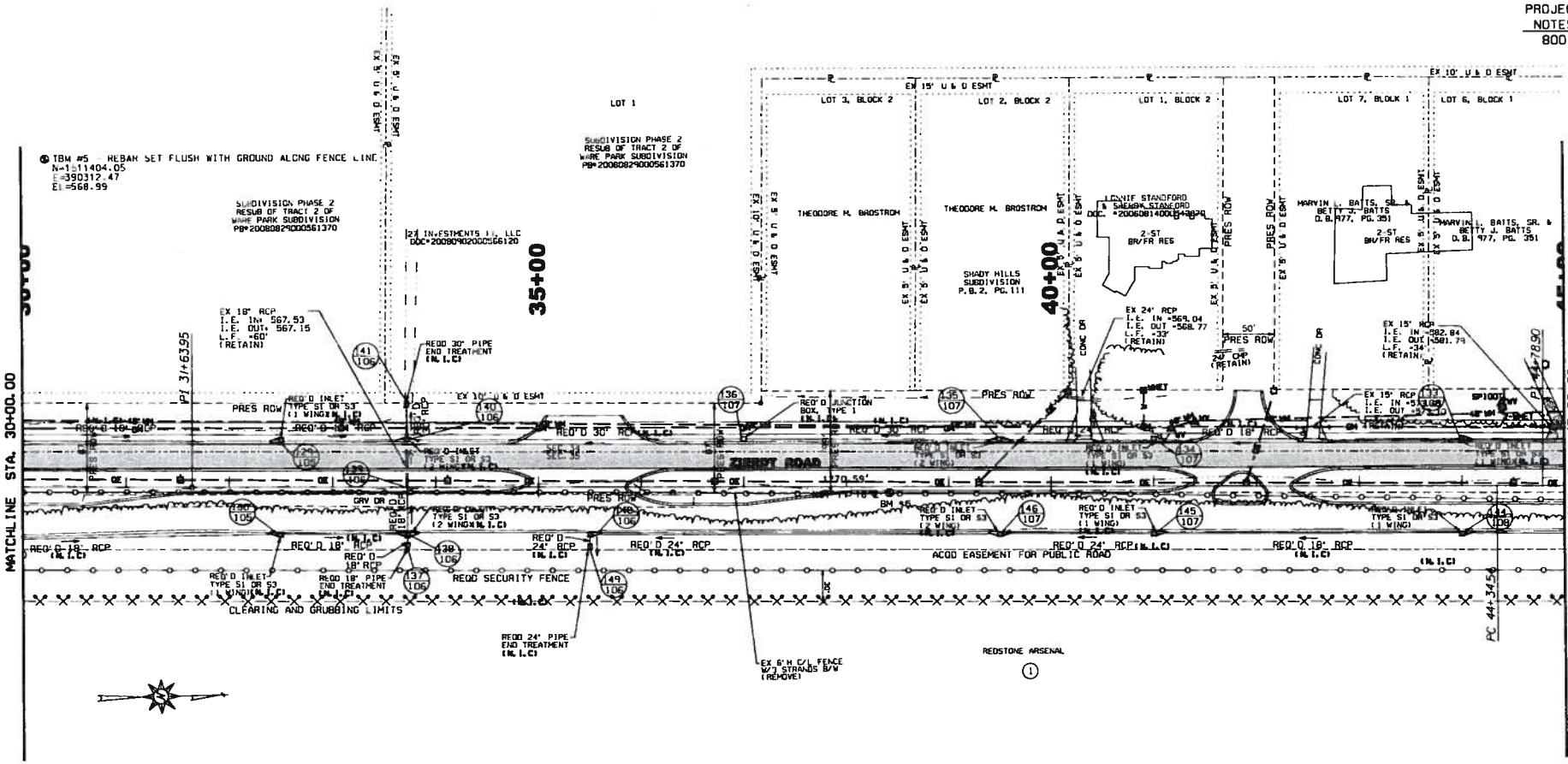


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	SCALE (FEET) HORIZ 0 50 100 VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 19+00 TO STA 30+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-N-8507(800)	2013	25

PROJECT NOTES
800

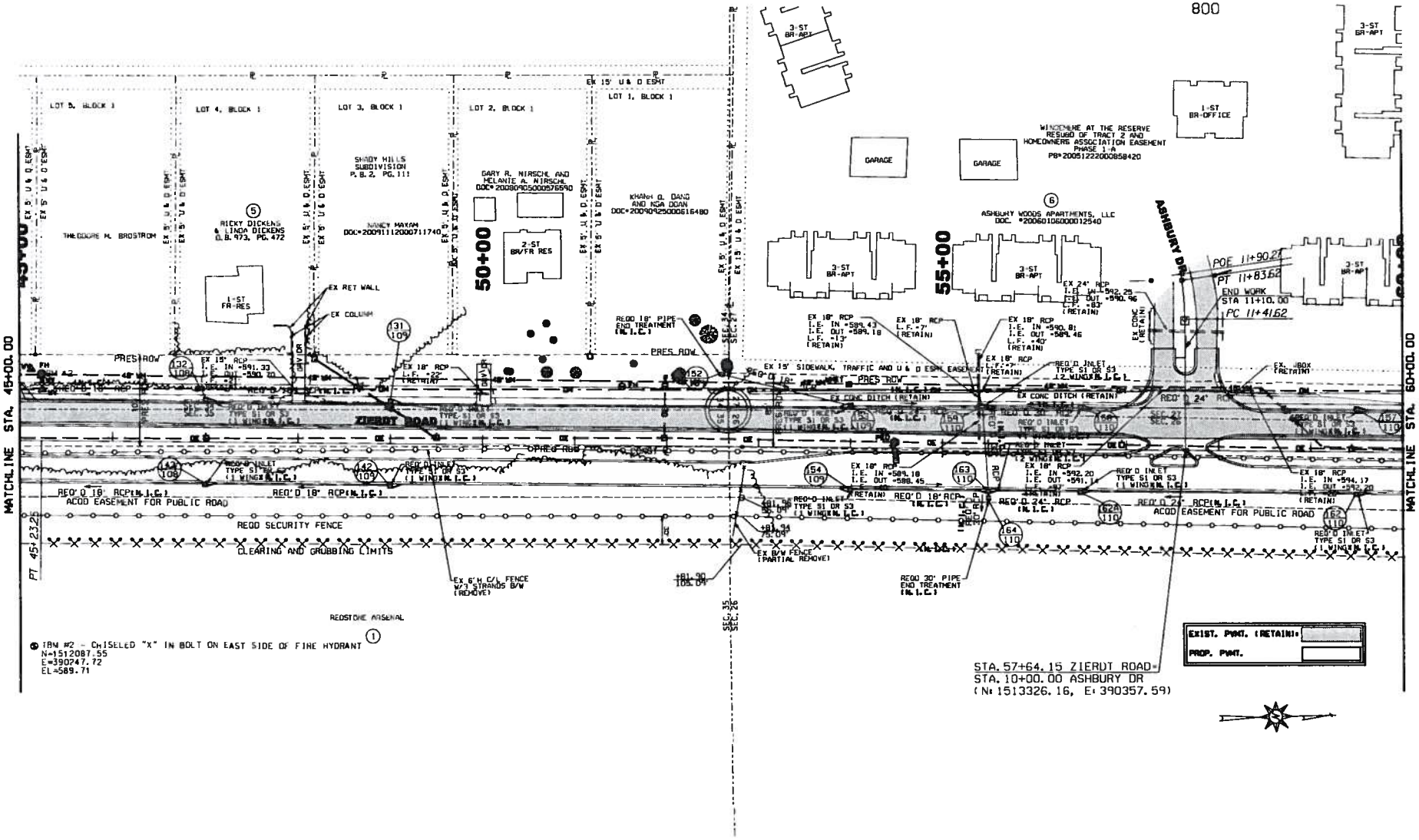


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 30+00 TO STA 45+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	26

PROJECT NOTES
800

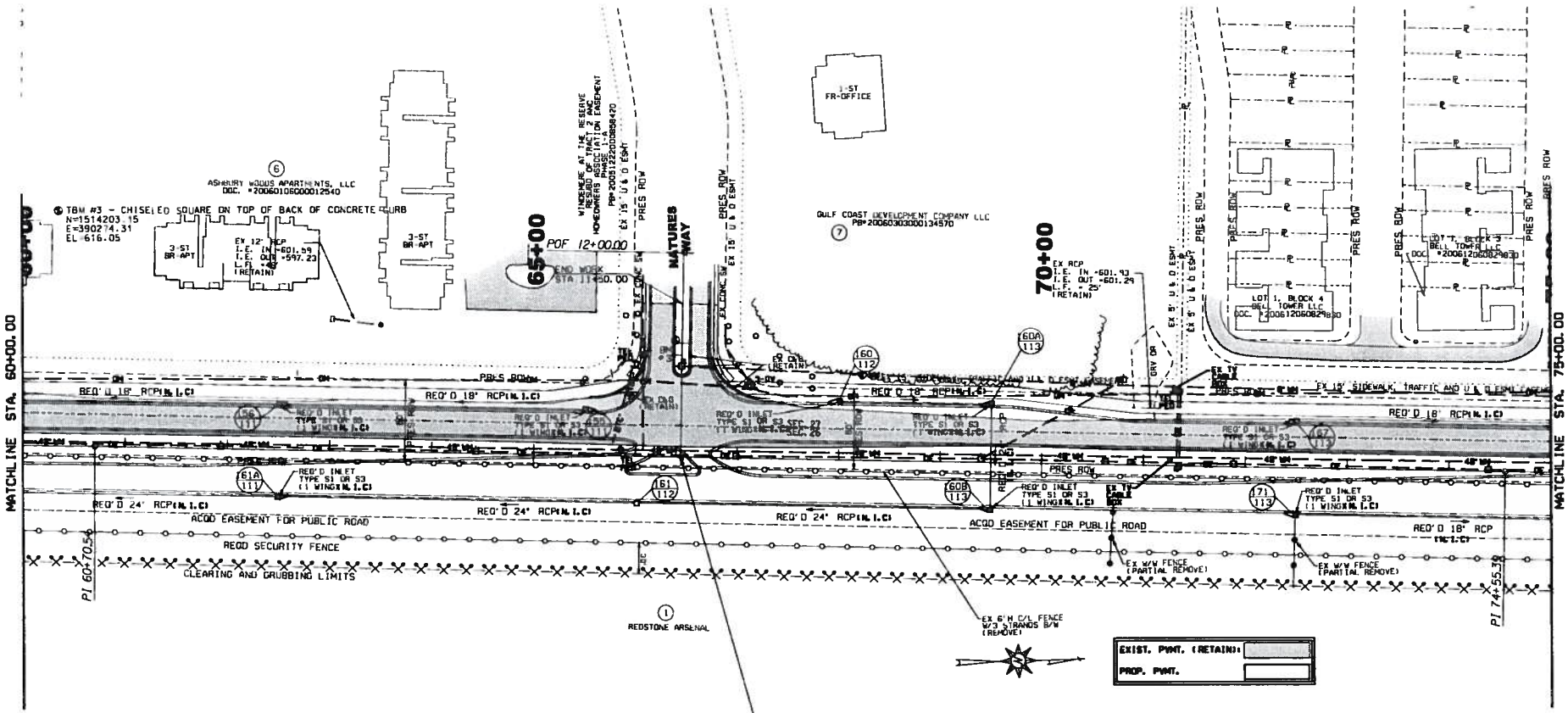


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 45+00 TO STA 60+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

PROJECT NOTES
800

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	27



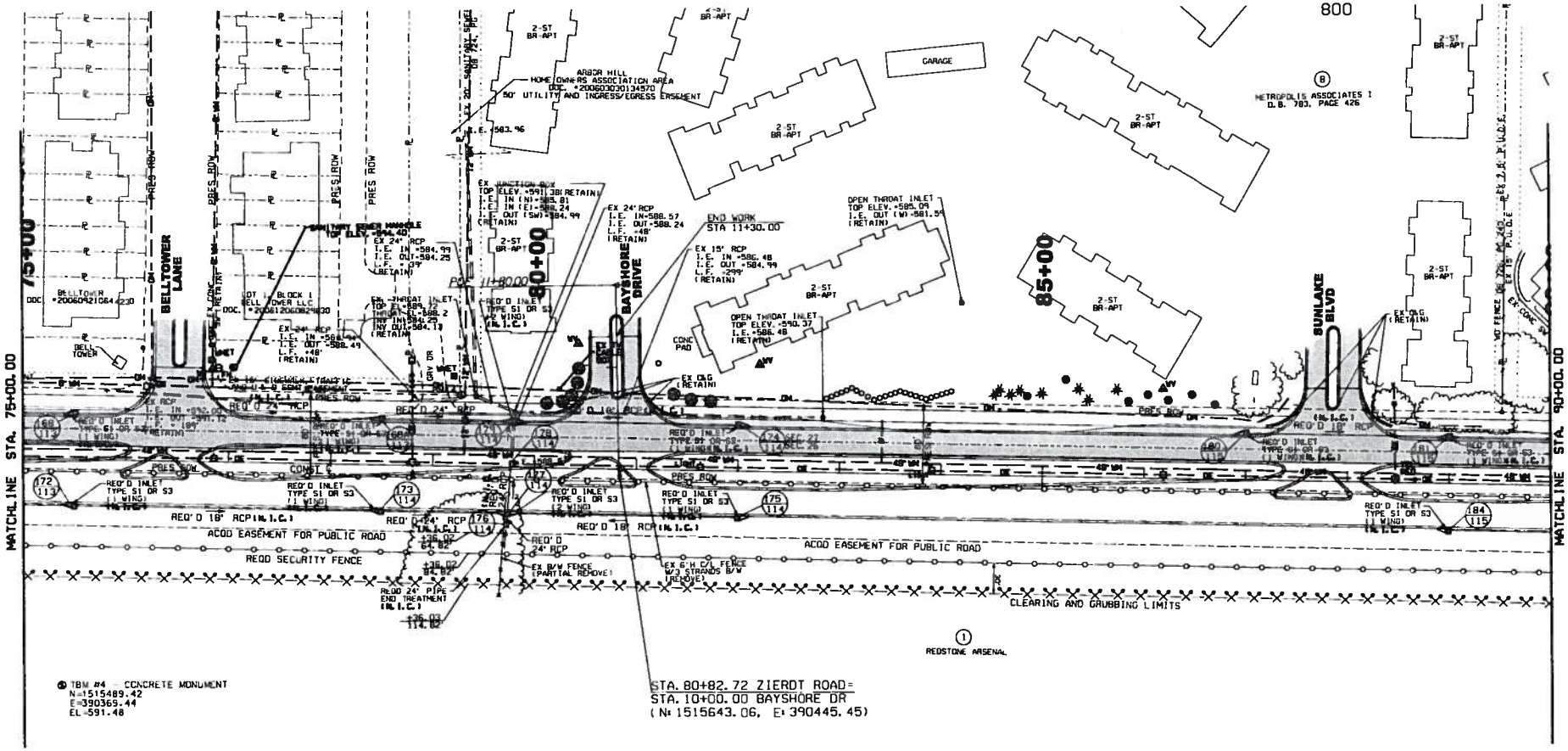
STA. 66+44.17 ZIERDT ROAD=
STA. 10+00.00 NATURES WAY
(N= 1514205.62, E= 390388.86)

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		DARVER, LLC		UTILITY SHEET STA 60+00 TO STA 75+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	28

PROJECT NOTES
800



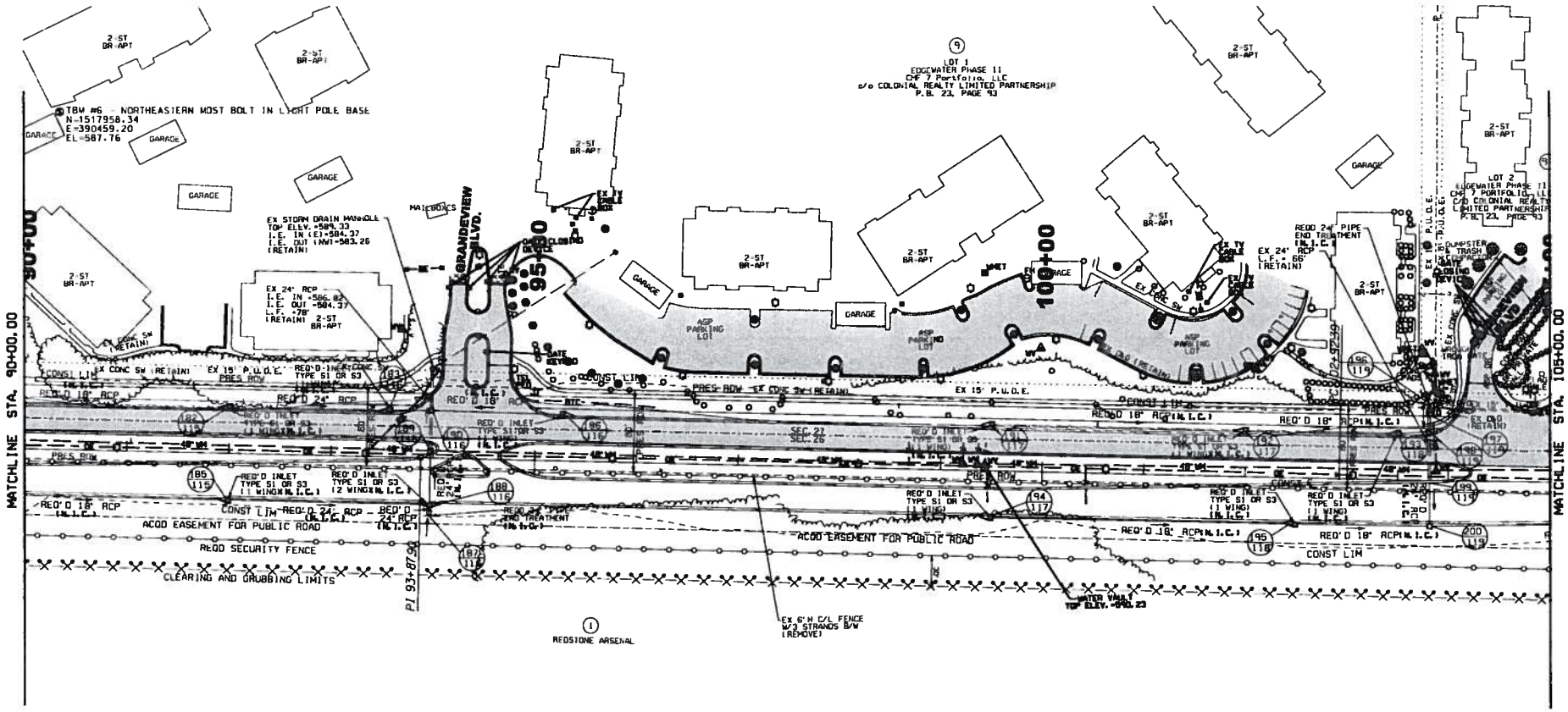
EXIST. PVMT. (RETAIN):
PROP. PVMT.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 60+00 TO STA 75+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

PROJECT NOTES
800

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	29



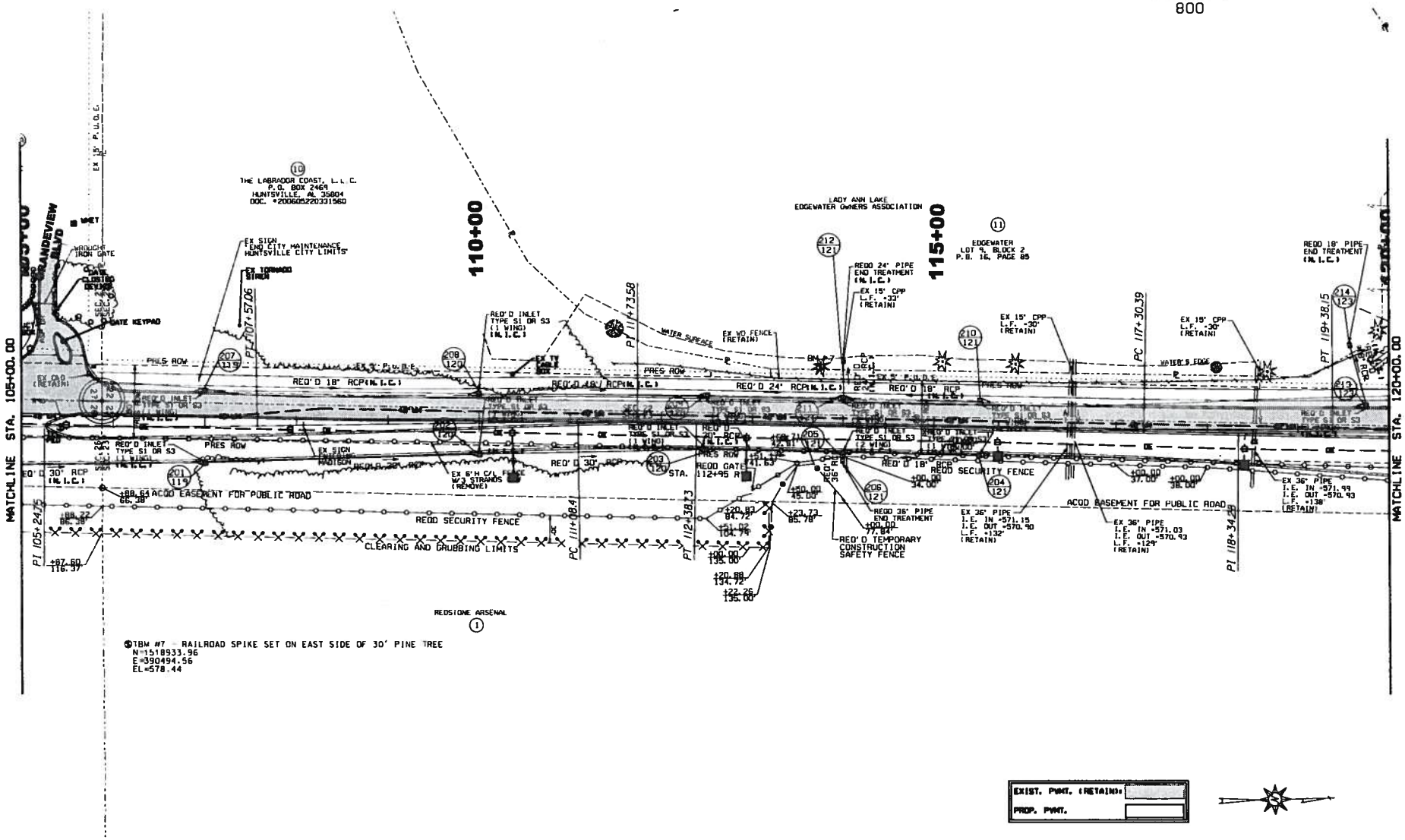
EXIST. PVMT. (RETAIN)
PROP. PVMT.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 105+00 TO STA 90+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	30

PROJECT NOTES
800



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

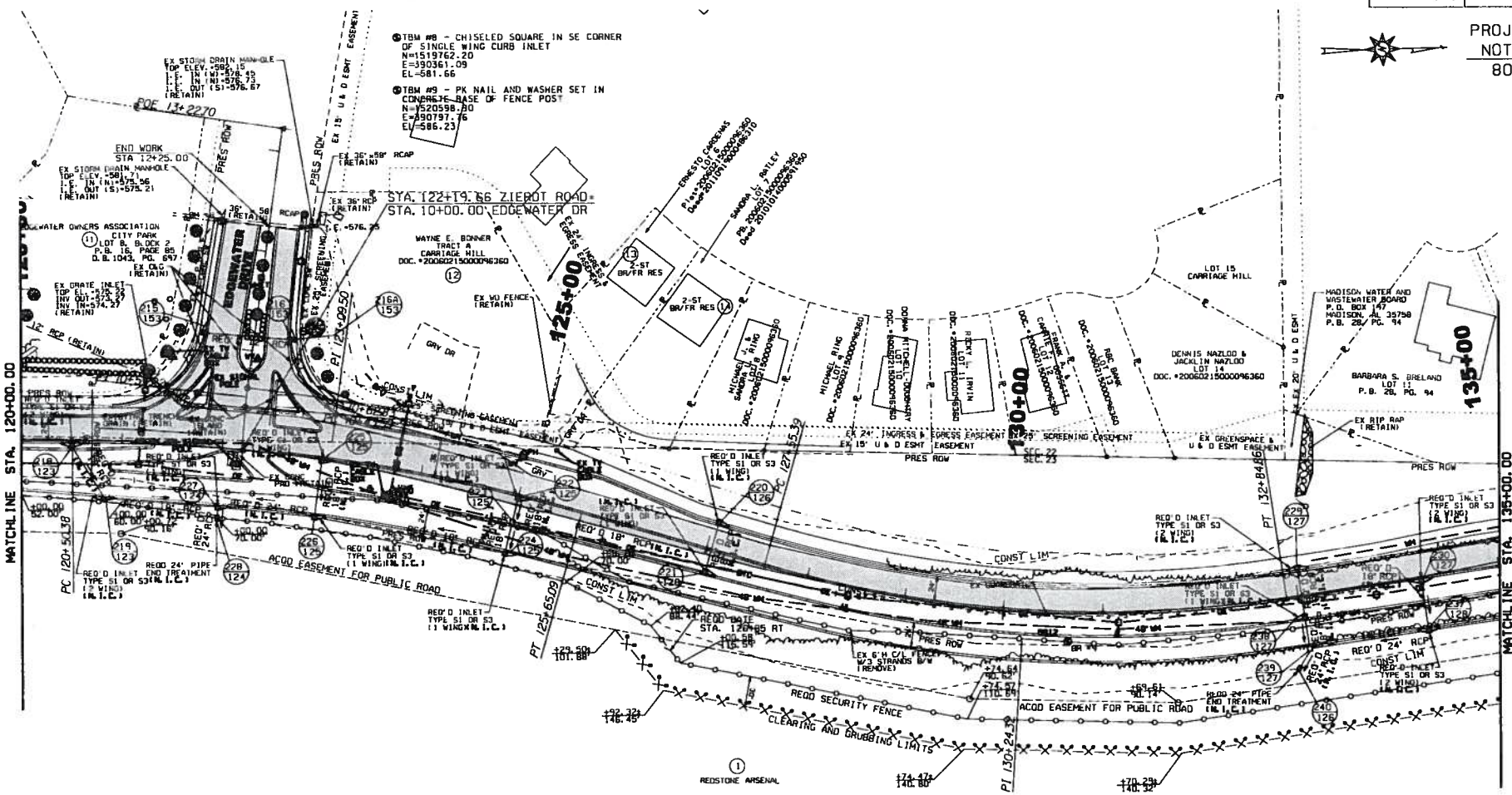
HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

SHEET TITLE	ROUTE
UTILITY SHEET STA 105+00 TO STA 120+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	31

PROJECT NOTES
800

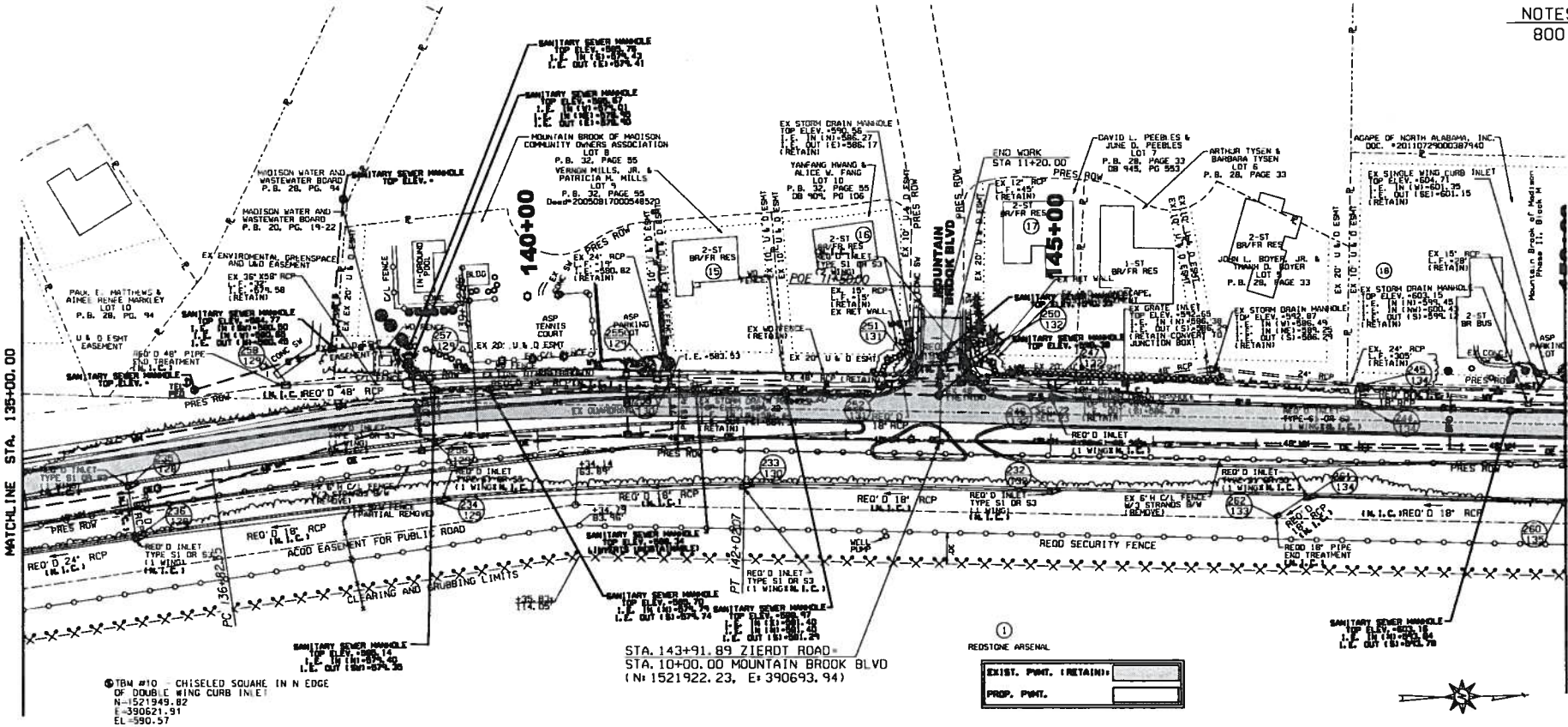


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		DARVER, LLC		UTILITY SHEET STA 120+00 TO STA 135+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	32

PROJECT NOTES
800



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

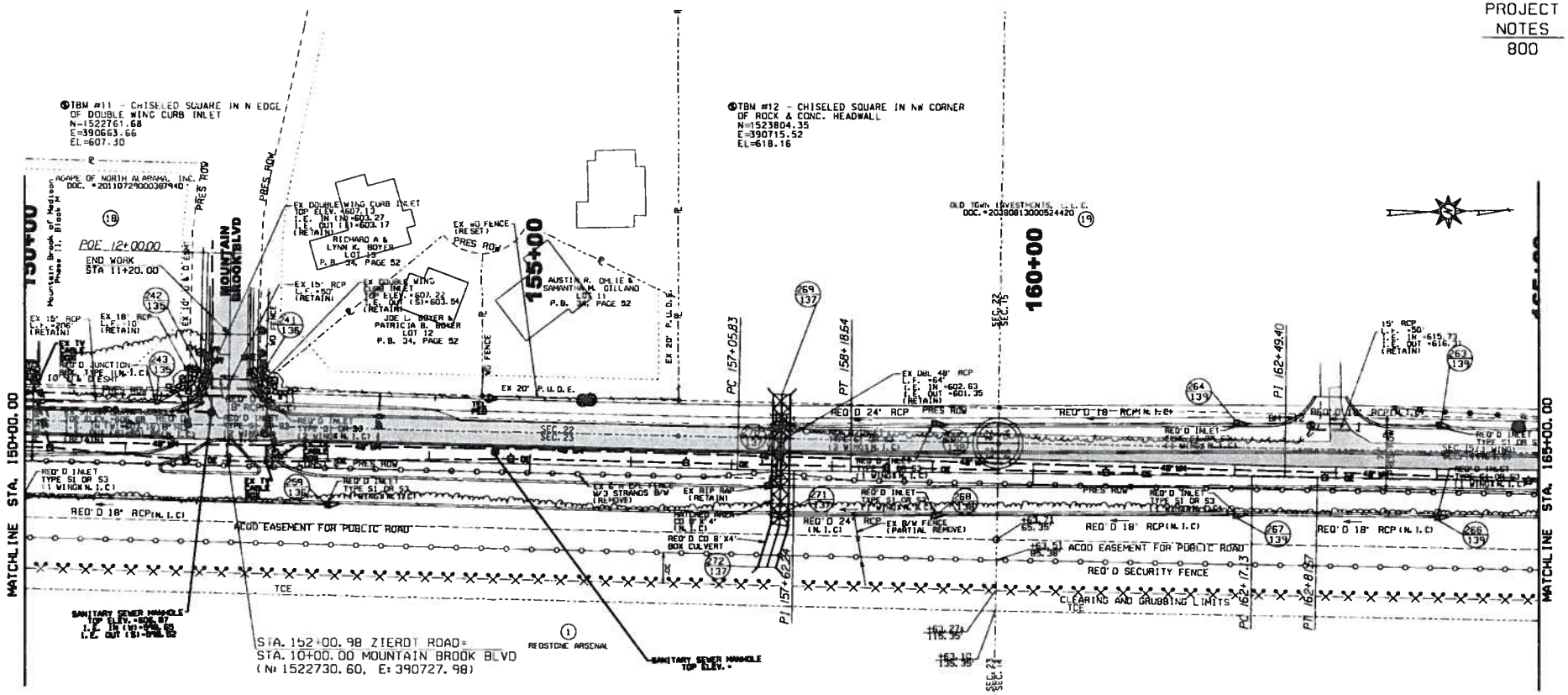
SCALE (FEET): HORIZ 0 50 100; VERT 0 5 10

SHEET TITLE	ROUTE
UTILITY SHEET STA 135+00 TO STA 150+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	33

PROJECT NOTES
800

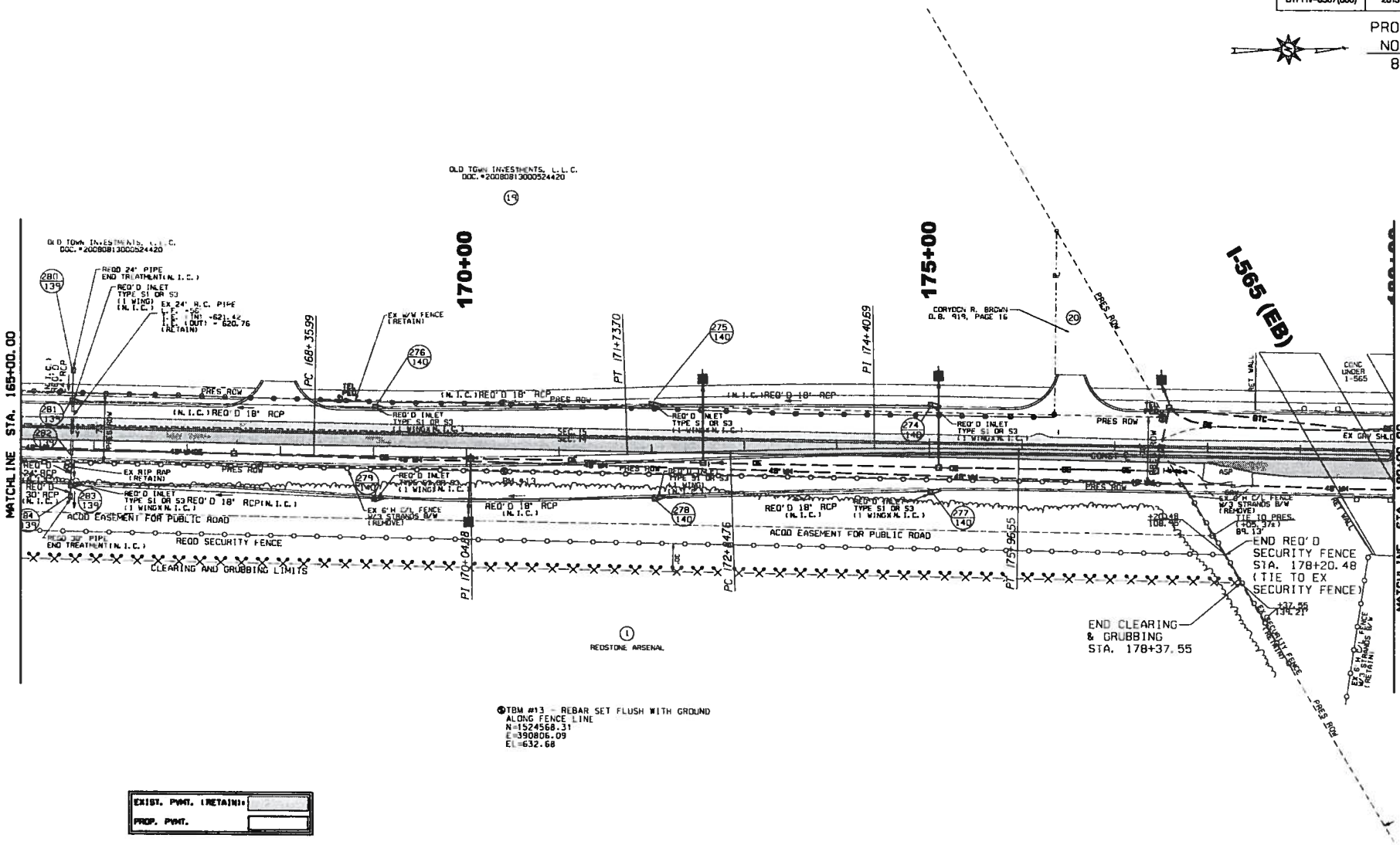


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100	SCALE (FEET)	VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC				UTILITY SHEET STA 150+00 TO STA 165+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	34

PROJECT NOTES
800



TBM #13 - REBAR SET FLUSH WITH GROUND ALONG FENCE LINE
N=1524568.31
E=390806.09
EL=632.68

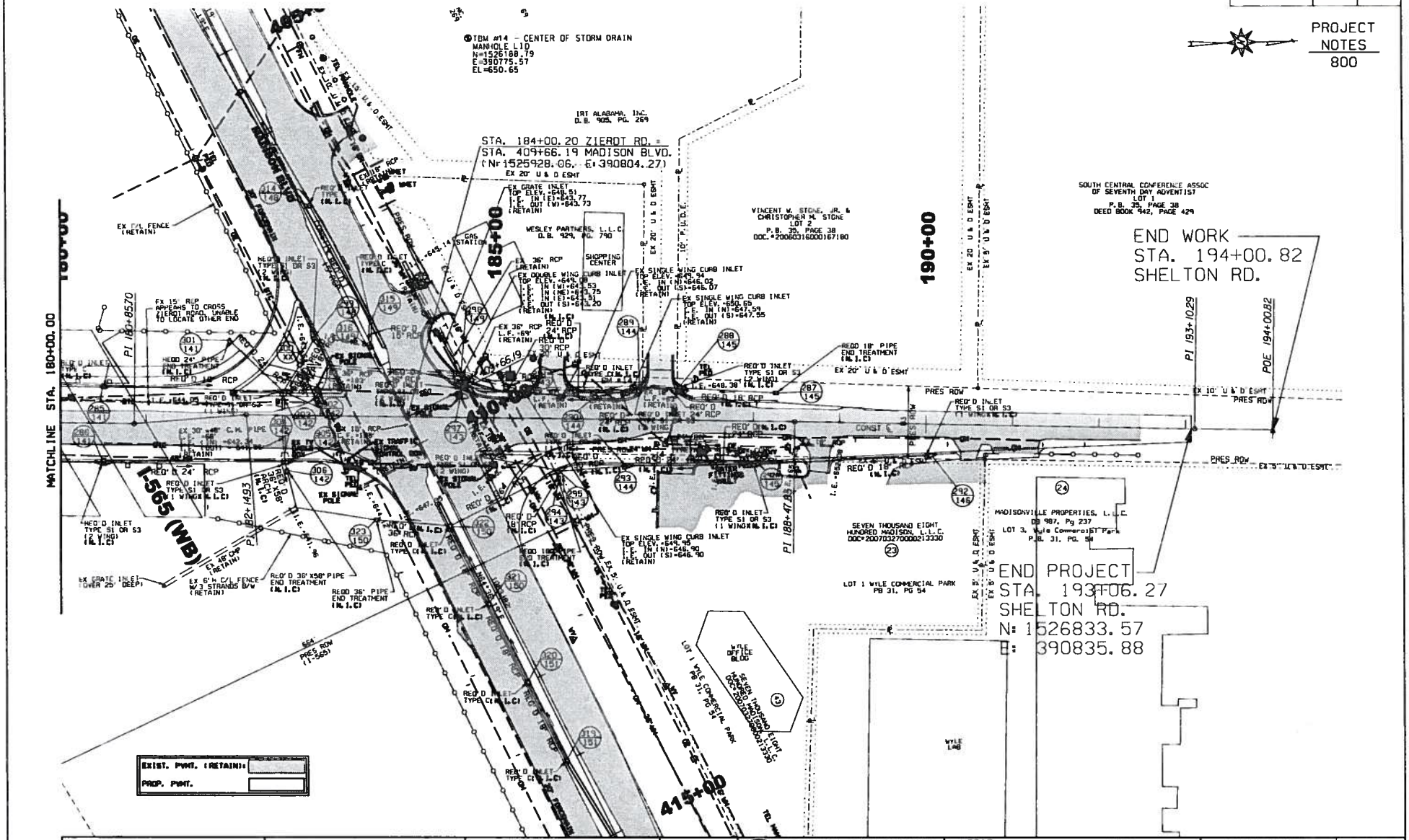
EXIST. PVMT. (RETAIN):
PROP. PVMT.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 / VERT 0 5 10 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		UTILITY SHEET STA 120+00 TO STA 180+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	35

PROJECT NOTES
800



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

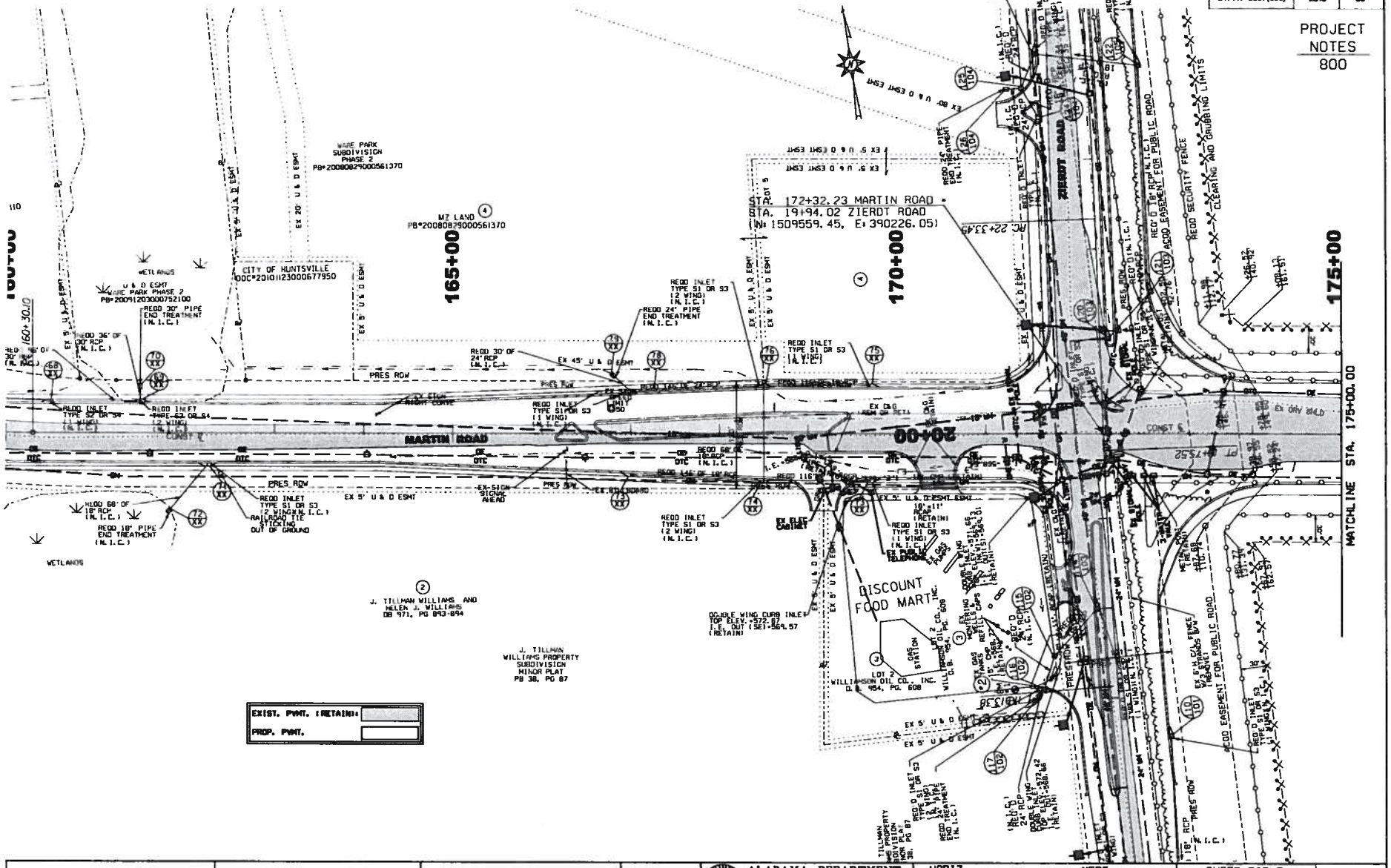
HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10

SHEET TITLE	ROUTE
UTILITY SHEET STA 180+00 TO STA 194+00 ZIERDT ROAD	ZIERDT ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	36

PROJECT NOTES
800

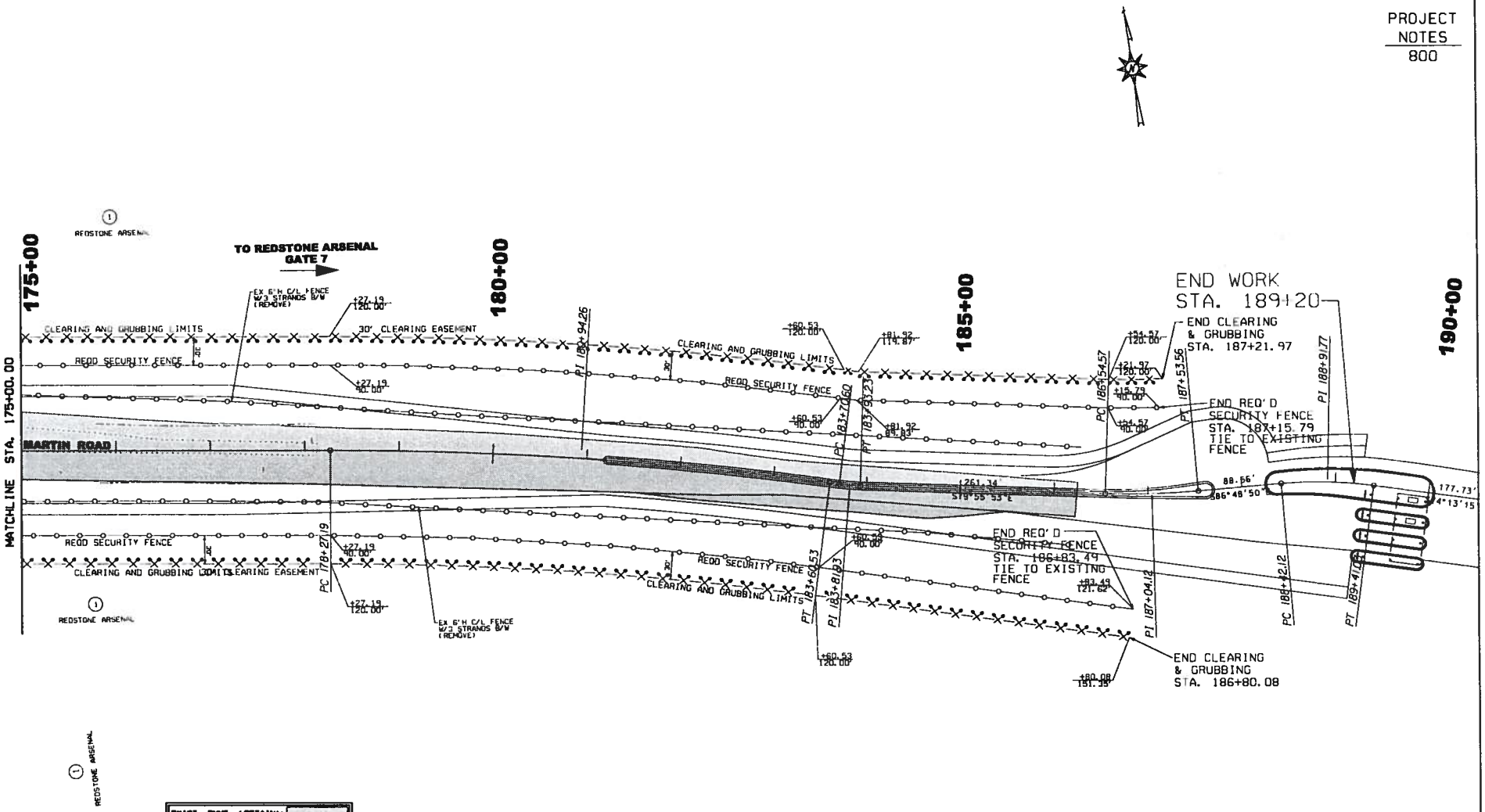


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 / VERT 0 5 10 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				UTILITY SHEET STA 160+00 TO STA 175+00 MARTIN ROAD	MARTIN ROAD

UTILITY SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	37

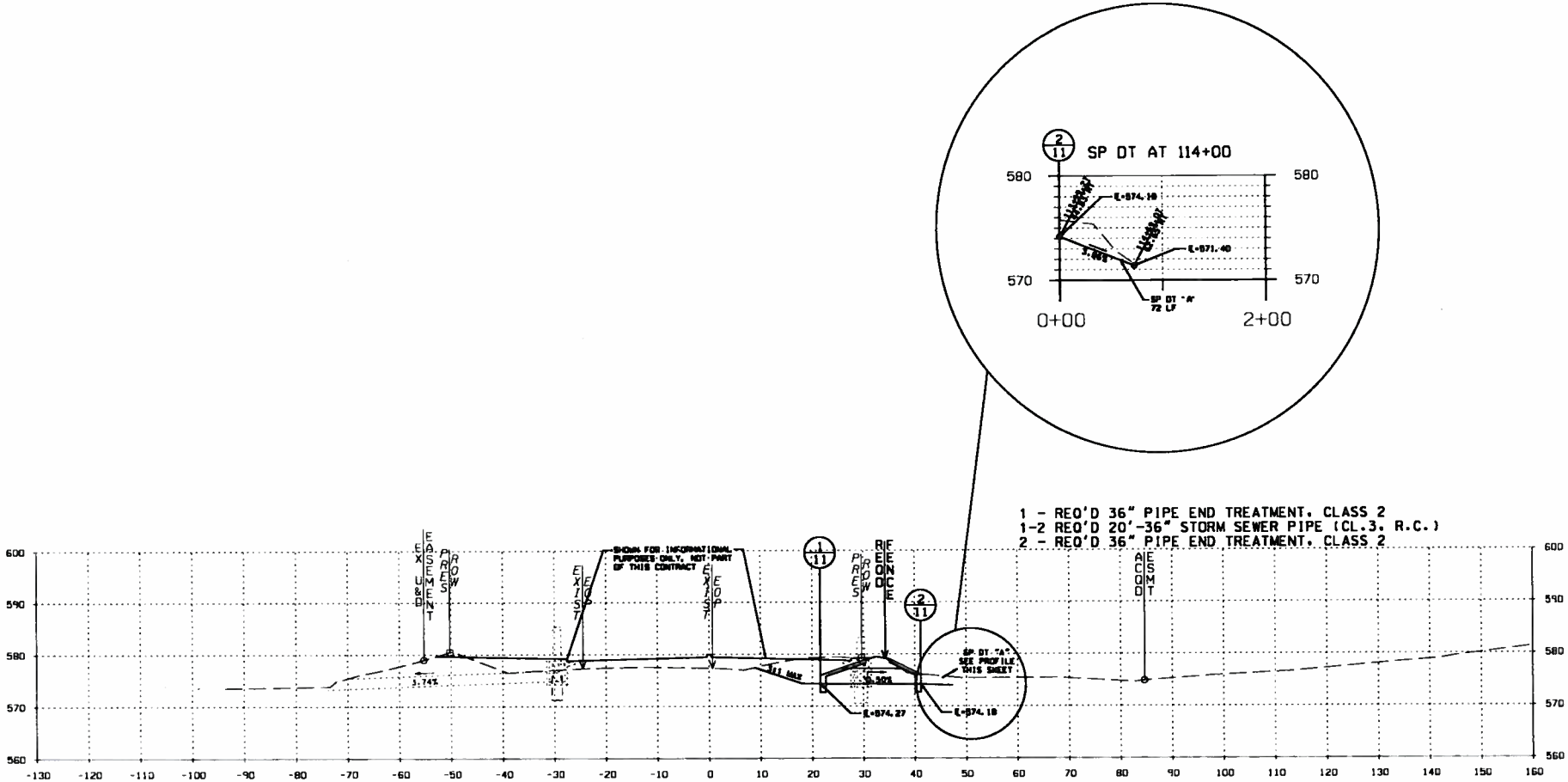
PROJECT NOTES
800



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 0 50 100 SCALE (FEET) VERT 0 5 10	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				UTILITY SHEET STA 175+00 TO STA 189+20 MARTIN ROAD	MARTIN ROAD

DRAINAGE CROSS SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	38



114+00.00

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 0 10 20 SCALE (FEET) VERT 0 10 20

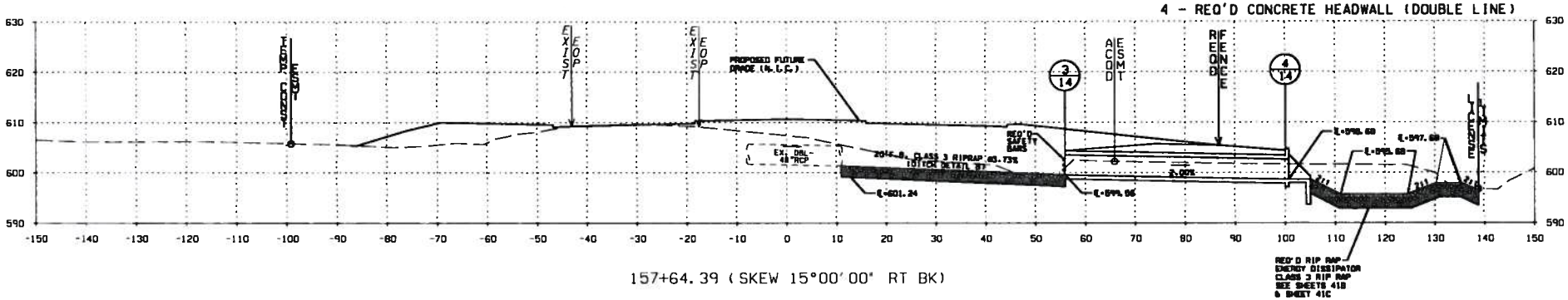
SHEET TITLE: ZIERDT ROAD CLEARING AND GRUBBING PHASE DRAINAGE CROSS SECTIONS

ROUTE: ZIERDT ROAD

DRAINAGE CROSS SECTION SHEET

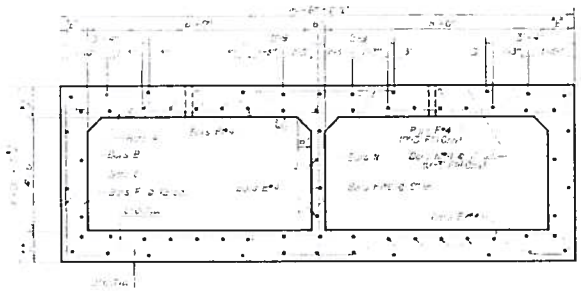
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	40

3-4 REQ'D 44' - CD 8'X4' BOX CULVERT
4 - REQ'D CONCRETE HEADWALL (DOUBLE LINE)

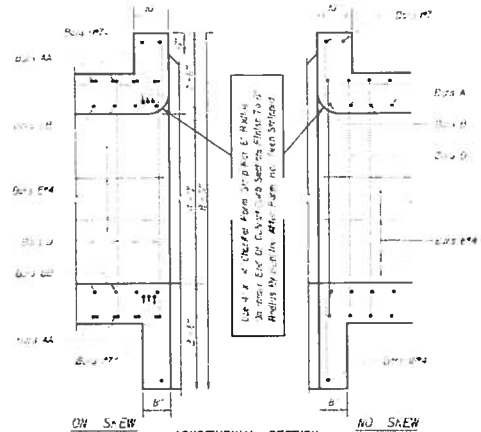


157+64.39 (SKEW 15°00'00" RT BK)

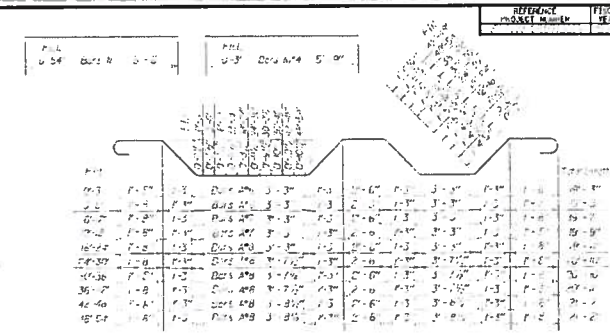
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	HORIZ 0 10 20 SCALE (FEET) VERT 0 10 20	SHEET TITLE ZIERDT ROAD CLEARING AND GRUBBING PHASE DRAINAGE CROSS SECTIONS	ROUTE ZIERDT ROAD
DATE:	DATE:	DATE:					

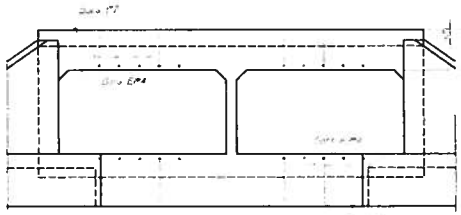


TYPICAL CROSS SECTION

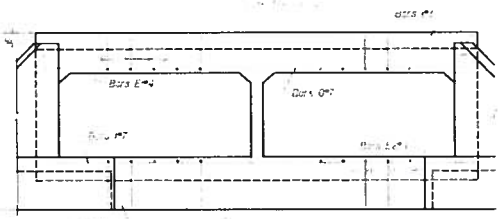


ON SKEW — LONGITUDINAL SECTION — NO SKEW

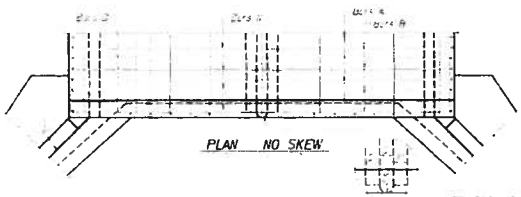




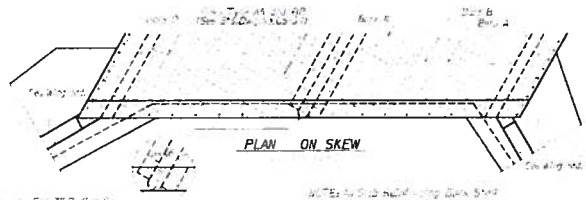
ELEVATION NO SKEW



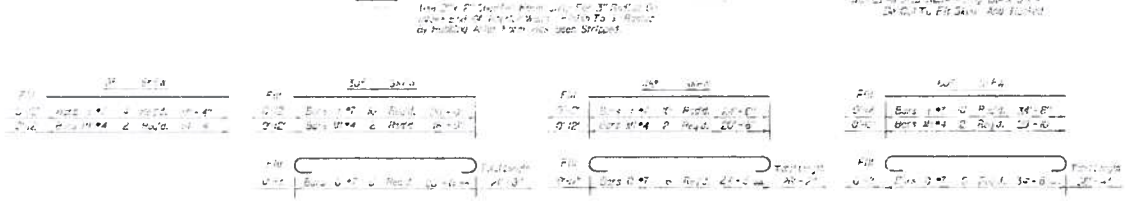
ELEVATION ON SKEW



PLAN NO SKEW



PLAN ON SKEW



FILL	PER UNIT LOAD		CURVE 0° FOR SKEWS							
			0° SKEW		30° SKEW		45° SKEW		60° SKEW	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0'-0"	[illegible]	[illegible]	[illegible]	[illegible]	229	741	318	320	424	1245
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

THESE DRAWINGS REPRESENTS RESULTS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE. FAILURE TO APPROVE SUCH USE, ARTICLE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ALABAMA DEPARTMENT OF TRANSPORTATION

THIS STANDARD TO BE USED WITH ANY OF THE FOLLOWING STANDARDS

REVISIONS

L Line Border 8/20/08 L.R.

STANDARD
REINFORCED CONCRETE
BOX CULVERT
OPENING DOUBLE 8'x4'
FILL 0' - 54' ANY SKEW

ESTIMATED QUANTITIES

COMPUTED BY

VERIFIED BY

DESIGNED BY

CHECKED BY

DATE CHECKED

DATE DRAWN 10/07/03

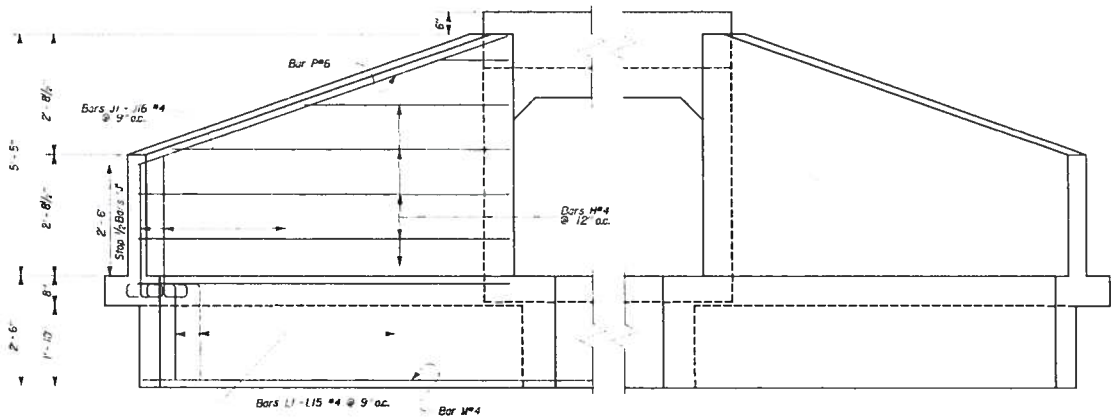
SCALE

STANDARD DWG. NO.

CD-84

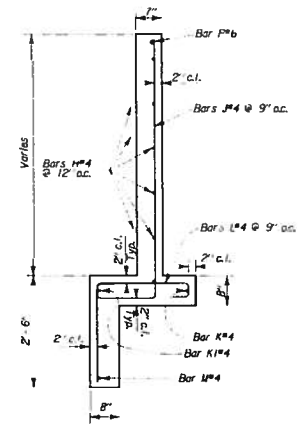
U:\Standards\Culverts\cd-st\standard\2d0804.dgn
Plotted 12-Aug-2009 03:22 PM

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



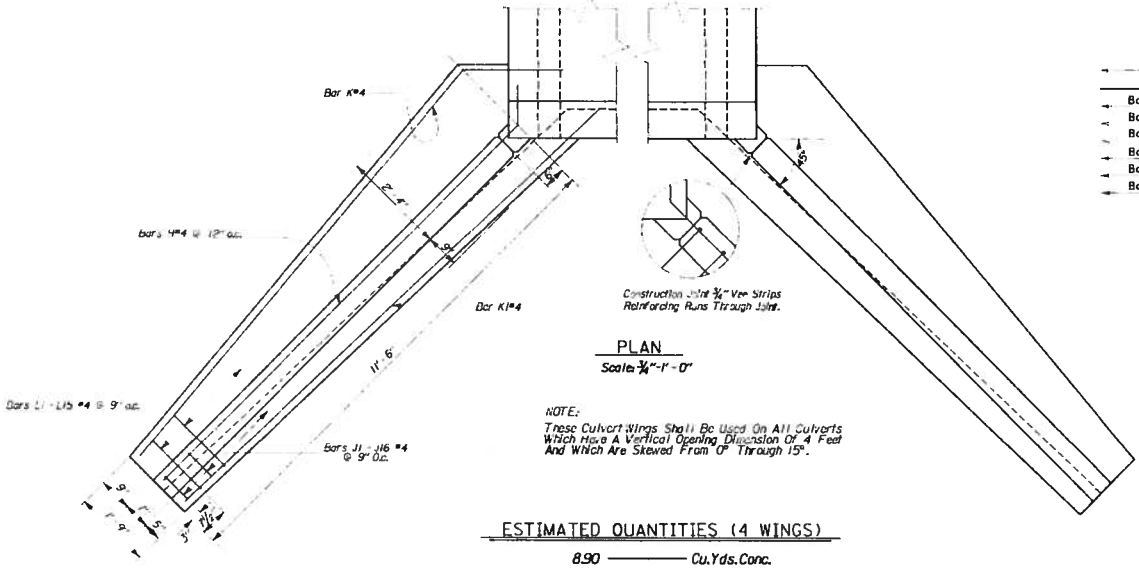
ELEVATION

Scale: ¾"-1'-0"



TYPICAL WING SECTION

Scale: ¾"-1'-0"



PLAN

Scale: ¾"-1'-0"

NOTE:

These Culvert Wings Shall Be Used On All Culverts Which Have A Vertical Opening Dimension Of 4 Feet And Which Are Skewed From 0° Through 15°.

ESTIMATED QUANTITIES (4 WINGS)

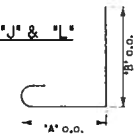
8.90 ——— Cu.Yds.Conc.

752 ——— Lbs.Reinf.Steel

Bar	Size	No.	Total Length	Dimensions "A"	Dimensions "B"
J1	#4	4	4' - 3"	0' - 8"	3' - 1"
J2	#4	4	4' - 2"	0' - 8"	3' - 0"
J3	#4	4	4' - 8"	0' - 8½"	3' - 5½"
J4	#4	4	4' - 2½"	0' - 9½"	3' - 0"
J5	#4	4	5' - 9½"	0' - 9"	3' - 9½"
J6	#4	4	4' - 3"	0' - 9"	3' - 0"
J7	#4	4	5' - 5½"	0' - 9½"	4' - 2"
J8	#4	4	4' - 4"	0' - 10"	3' - 0"
J9	#4	4	5' - 10"	0' - 10"	4' - 6"
J10	#4	4	4' - 4½"	0' - 10½"	3' - 0"
J11	#4	4	6' - 3"	0' - 10½"	4' - 10½"
J12	#4	4	4' - 5"	0' - 11"	3' - 0"
J13	#4	4	6' - 7½"	0' - 11"	5' - 2½"
J14	#4	4	4' - 5½"	0' - 11½"	3' - 0"
J15	#4	4	7' - 0½"	0' - 11½"	5' - 7"
J16	#4	4	4' - 6"	1' - 0"	3' - 0"
L1	#4	4	4' - 2"	1' - 6"	2' - 2"
L2	#4	4	4' - 3"	1' - 7"	2' - 2"
L3	#4	4	4' - 4"	1' - 8"	2' - 2"
L4	#4	4	4' - 5"	1' - 9"	2' - 2"
L5	#4	4	4' - 6"	1' - 10"	2' - 2"
L6	#4	4	4' - 7"	1' - 11"	2' - 2"
L7	#4	4	4' - 8"	2' - 0"	2' - 2"
L8	#4	4	4' - 9"	2' - 1"	2' - 2"
L9	#4	4	4' - 10"	2' - 2"	2' - 2"
L10	#4	4	4' - 11"	2' - 3"	2' - 2"
L11	#4	4	5' - 0"	2' - 4"	2' - 2"
L12	#4	4	5' - 1"	2' - 5"	2' - 2"
L13	#4	4	5' - 2"	2' - 6"	2' - 2"
L14	#4	4	5' - 3½"	2' - 7½"	2' - 2"
L15	#4	4	5' - 4½"	2' - 8½"	2' - 2"
P	#6	4	11' - 9"	11' - 9"	0
K	#4	4	14' - 1½"	11' - 5"	2' - 8½"
K1	#4	4	13' - 7"	13' - 7"	0
M	#4	4	14' - 0"	12' - 4"	1' - 8"
H1	#4	12	13' - 0"	11' - 4"	1' - 8"
H2	#4	4	11' - 11"	10' - 3"	1' - 8"
H3	#4	4	7' - 8"	6' - 0"	1' - 8"
H4	#4	4	3' - 5"	1' - 9"	1' - 8"

Bars	"A"	"B"
Bars K#4	11'-5"	1'-7"
Bars M#4	12'-4"	1'-3"
Bars H1#4	11'-4"	1'-2½"
Bars H2#4	10'-3"	1'-2½"
Bars H3#4	6'-0"	1'-2½"
Bars H4#4	1'-9"	1'-2½"

Bars "J" & "L"



THESE DRAWINGS REMAIN THE PROPERTY OF THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED OR USED BY ANYONE OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ALABAMA DEPARTMENT OF TRANSPORTATION

THIS STANDARD TO BE USED WITH ANY OF THE FOLLOWING STANDARDS

REVISIONS

1. Removed Bars "J" Bars F.R. 11-11-98
2. Revised 2-11-82 F.R.
3. Digitized 7-11-05 L.E.D.

STANDARD
REINFORCED CONCRETE
BOX CULVERT WINGS
OPENING 4' HEIGHT
3' TO 1' SLOPE 0° SKEW

ESTIMATED QUANTITIES
COMPUTED BY: F.R.
VERIFIED BY:
DESIGNED BY: M.T.H.
DRAWN BY:
CHECKED BY:
DATE DRAWN: 5-18-70
SCALE: ¾" = 1'-0"

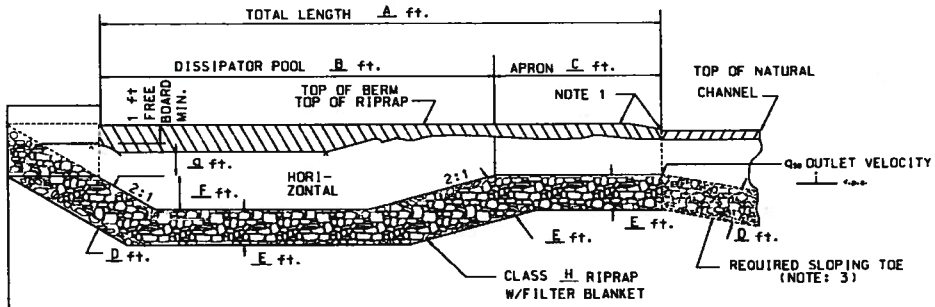
STANDARD DWG. NO.

W4-3:1-0°

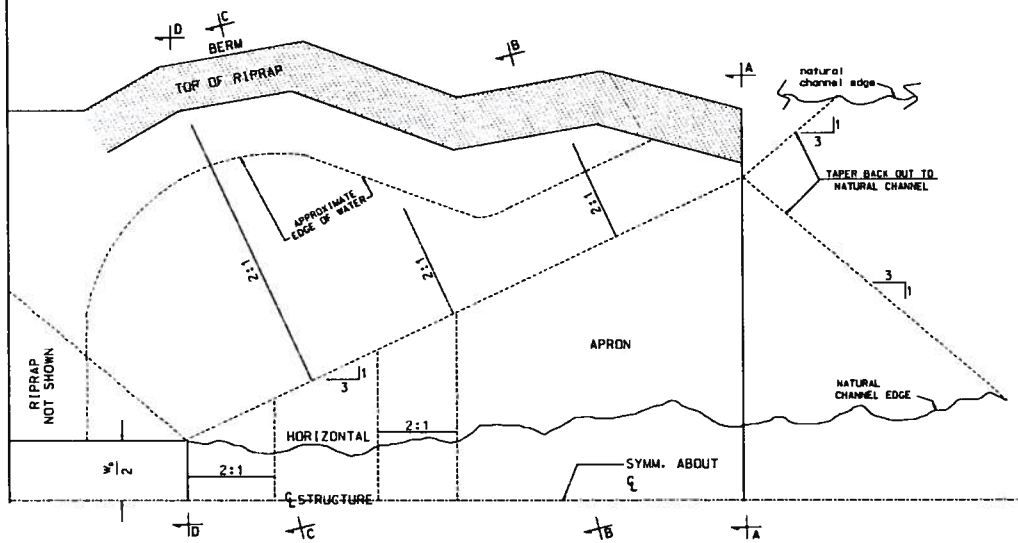
Plotted 18-May-2006 09:03 AM

\\Bmtn001\users\Standards\Culvert\usculwing\w043000.dgn

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	41B

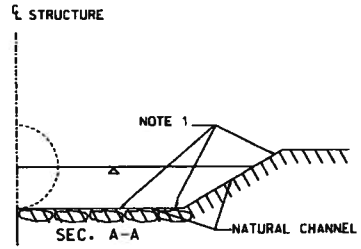


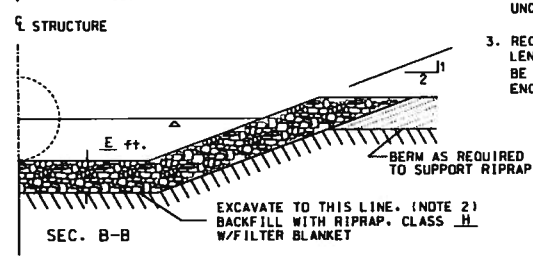
note:
w_o = DIAMETER FOR PIPE
w_o = BARREL WIDTH FOR BOX CULVERT
w_o = SPAN OF ARCH-PIPE

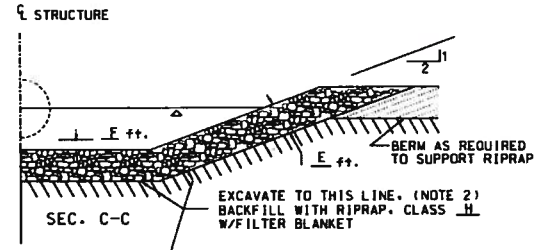


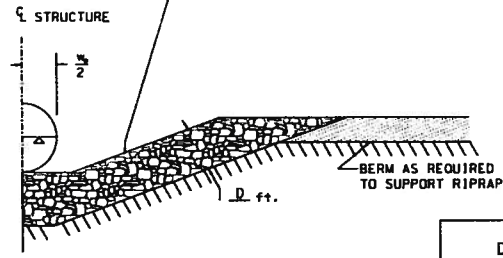
HALF PLAN

NOT TO SCALE









notes

1. WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL. TOP OF RIPRAP IN FLOOR OF BASIN SHOULD BE AT THE SAME ELEVATION OR LOWER THAN NATURAL CHANNEL BOTTOM AT SEC. A-A
2. EXCAVATION SHALL BE PAID FOR UNDER ITEM NO. 210-A UNCLASSIFIED EXCAVATION
3. REQUIRED SLOPING TOE. LENGTH AND SLOPE SHALL BE AS DIRECTED BY THE ENGINEER

DETAILS OF RIPRAP ENERGY BASIN

SHT. 1 OF 2

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:					ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	41C

DATA FOR RIPRAP ENERGY BASINS

STATION	INDEX NO.	SIDE	PIPE SIZE	DETAIL DIMENSIONS (ft.)							RIPRAP CLASS	BASIN OUTLET VELOCITY F.P.S.	REMARKS
				A	B	C	D	E	f	g	H	J	
157+30	4	RT	CD 8' X4'	40	33	5	2.7	2.7	2	1	3	15	

DETAILS OF RIPRAP ENERGY BASIN

SHEET 2 OF 2

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				PLAN & PROFILE	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	43

SEQUENCE OF CONSTRUCTION

NOTE: ANY WORK CAN BE PERFORMED CONCURRENTLY WITH THE APPROVAL OF THE ENGINEER AS LONG AS IT DOES NOT CONFLICT WITH ANOTHER SEQUENCE ITEM.

ZIERDT ROAD

PHASE I

* INSTALL APPLICABLE TRAFFIC CONTROL DEVICES.
* PERFORM CLEARING AND GRUBBING OPERATIONS AS SHOWN IN PLAN SHEETS BEHIND EXISTING SECURITY FENCE.
* CONSTRUCT REQUIRED DRAINAGE IMPROVEMENTS.

PHASE II

* INSTALL REQUIRED SECURITY FENCE.

PHASE III

* REMOVE EXISTING SECURITY FENCE AFTER APPROVAL OF NEW SECURITY FENCE CONSTRUCTION BY REDSTONE ARSENAL PHYSICAL SECURITY.

PHASE IV

* COMPLETE CLEARING & GRUBBING OPERATIONS.
* COMPLETE ANY REMAINING ITEMS OF WORK.

PHASE V

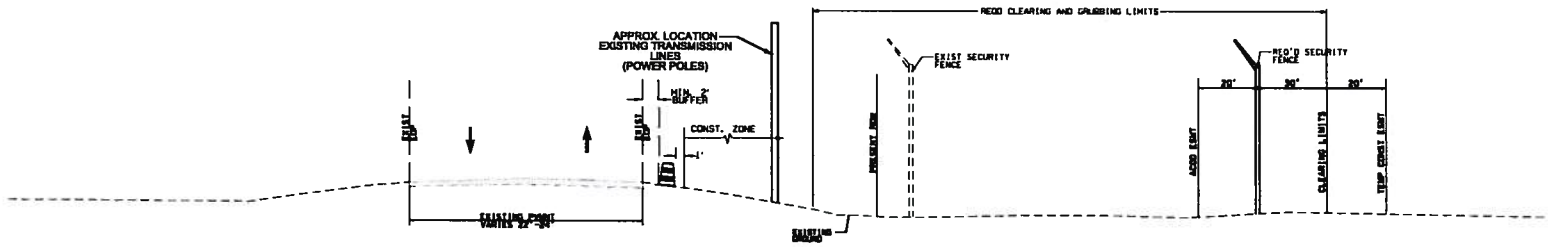
* REMOVE CONSTRUCTION TRAFFIC CONTROL DEVICES

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SEQUENCE OF CONSTRUCTION	ZIERDT ROAD

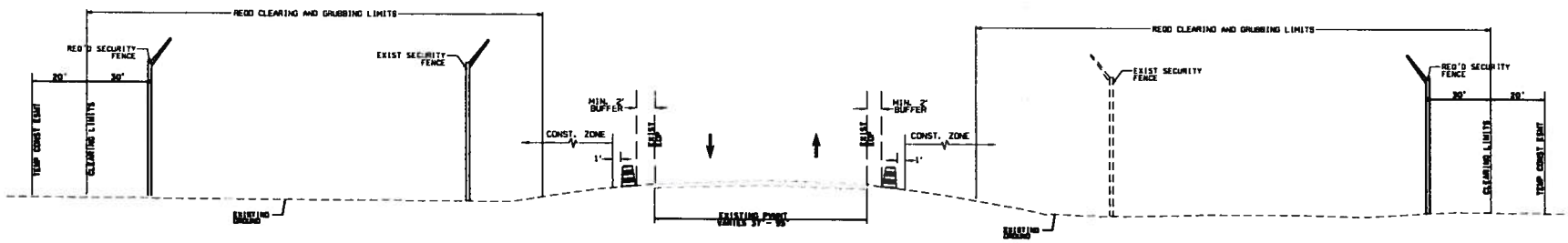
TRAFFIC CONTROL TYPICAL SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	43A

ZEIRDT ROAD TYPICAL SECTION



MARTIN ROAD TYPICAL SECTION



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				TRAFFIC CONTROL TYPICAL SECTIONS	ZIERDT ROAD

TRAFFIC CONTROL QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	43B

QUANTITIES FOR TRAFFIC CONTROL DEVICES

ITEM NO	UNIT	DESCRIPTION	QUANTITY	STD DWGS
674A-000	LIN FT	CONSTRUCTION SAFETY FENCE	300	--
740B-000	SQ FT	CONSTRUCTION SIGNS	754	SEE BELOW, IHS-710-12, IHS-710-21, IHS-710-23
740D-000	EACH	CHANNELIZING DRUMS	400	TCD-100
740E-000	EACH	CONES (36 INCHES HIGH)	50	TCD-100
740M-001	EACH	BALLAST FOR CONE	50	TCD-100

QUANTITIES FOR CONSTRUCTION SIGNS

SIGN NO	SIZE	DESCRIPTION	DWG NO	REQ'D	SQ FT EA	TOTAL
G20-1	60" X 24"	ROAD WORK NEXT 4 MILES	SHS-29	2	10.00	20
G20-2	48" X 24"	END ROAD WORK	SHS-29	6	8.00	48
W20-1	48" X 48"	ROAD WORK 1500 FT.	SHS-28	6	16.00	96
W20-1	48" X 48"	ROAD WORK 1000 FT.	SHS-28	6	16.00	96
W20-1	48" X 48"	ROAD WORK 500 FT.	SHS-28	6	16.00	96
W20-1	36" X 36"	ROAD WORK AHEAD	SHS-28	6	9.0	54
R-16-3	48" X 60"	SPEEDING FINES DOUBLED	SHS-9	6	20.0	120
R-16-3a	48" X 48"	END DOUBLED FINES	SHS-9	6	16.0	96
W20-4	48" X 48"	ONE LANE ROAD AHEAD	SHS-28	4	16.0	64
W20-7	48" X 48"	FLAGGER AHEAD	SHS-28	4	16.0	64
					TOTALS	754

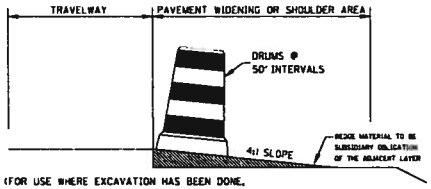
REQ'D TRAFFIC CONTROL NOTES

700	710	729		
701	711	732		
702	712	733		
703	715	737		
704	716	739		
707	720	740		
708	725	744		
709		750		

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL QUANTITIES	ZIERDT ROAD

TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	44

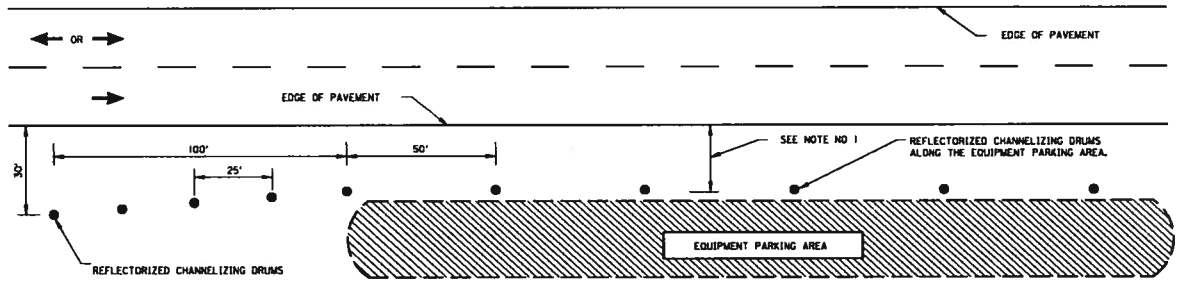


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESURFACING PROJECTS IS 3" OR MORE AT NIGHTFALL)

TYPICAL FOR DROP-OFF AT EDGE OF PAVEMENT

NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE . THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

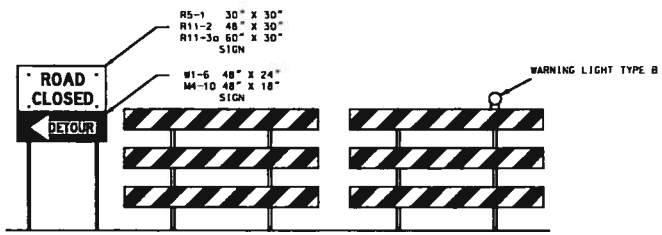
CHANNELIZING DRUMS SHALL BE PLACED AT 50 FT INTERVALS.



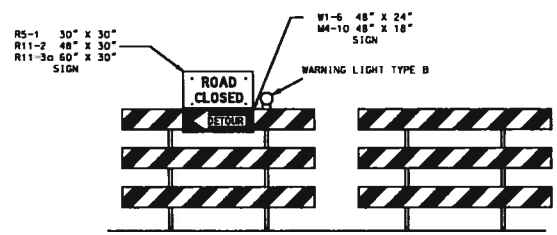
NOTES:

1. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT, MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
2. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAILS FOR EQUIPMENT PARKING AREA



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES OUTSIDE OF CLEAR ZONE

NOTES

1. SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.68 OF THE MUTCD AND DRAWING B-107-2.
2. IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
3. IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

STANDARD DETAILS FOR TRAFFIC CONTROL PLANS

Bureau Std Engr L.V.S.
DRAWN BY: ____ DATE DRAWN 10/30/12

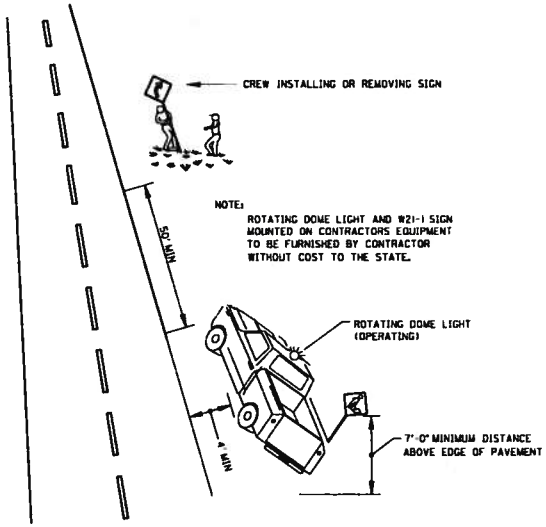
SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL
INDEX NO: 2001

NOT TO SCALE

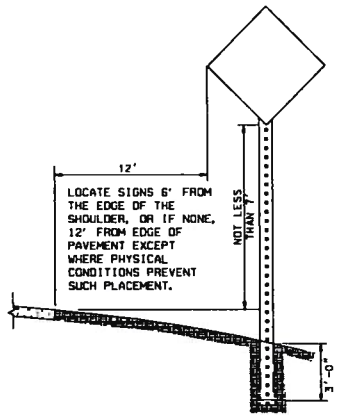
SHEET TITLE	ROUTE
TEMPORARY TRAFFIC CONTROL PLAN SHEET	ZIERDT ROAD

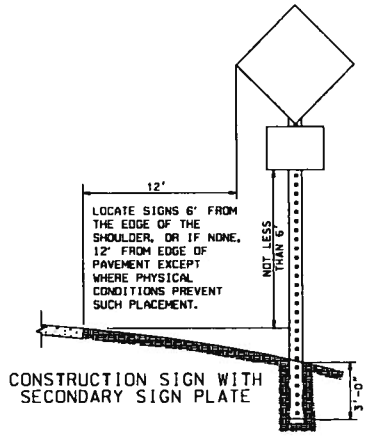
TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	44A



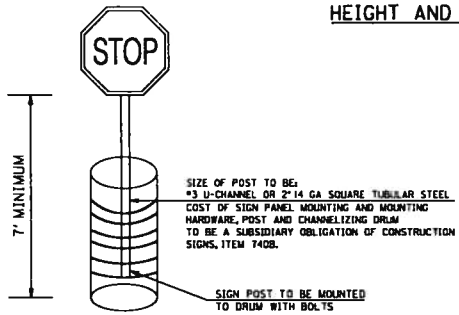
TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS





NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS
FOR TRAFFIC CONTROL PLANS

DRAWN BY:
DATE DRAWN: 10/30/12

SPECIAL PROJECT DETAIL

INDEX NO. 2001A

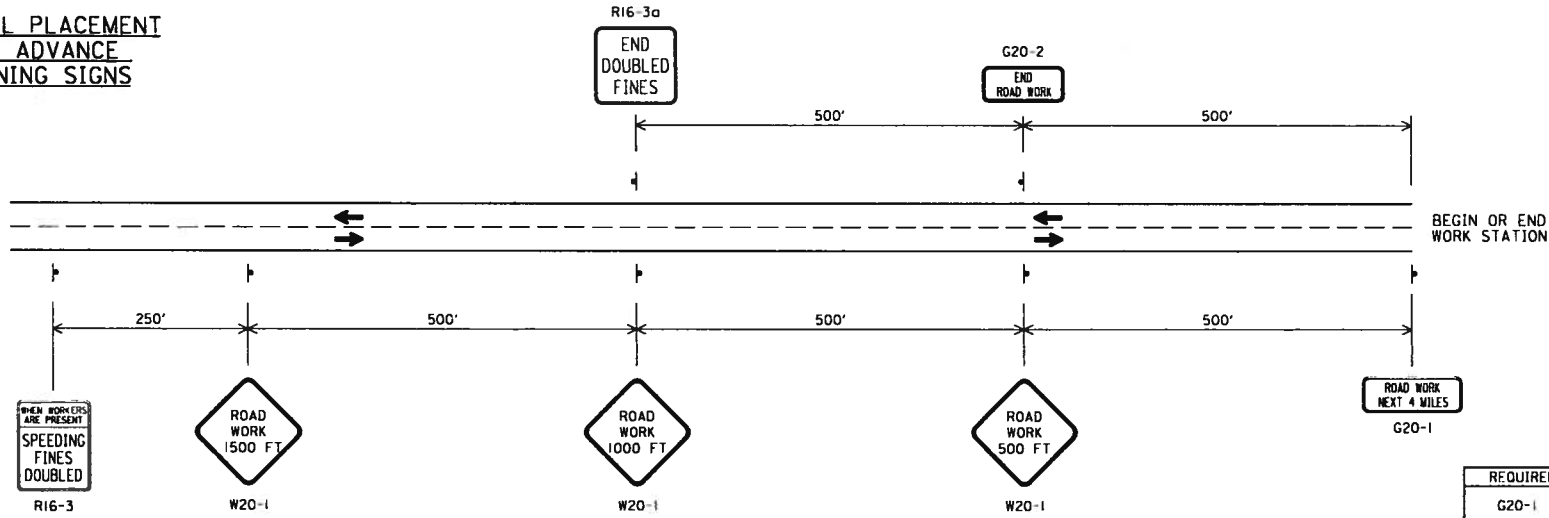
NOT TO SCALE

SHEET TITLE	ROUTE
TEMPORARY TRAFFIC CONTROL PLAN SHEET	ZIERDT ROAD

TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	44B

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

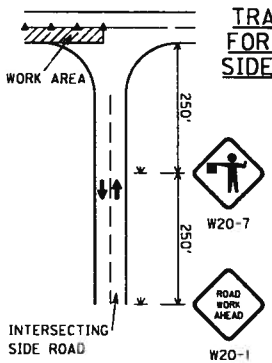


REQUIRED SIGN SIZES	
G20-1	60" X 24"
G20-2	48" X 24"
R2-1	24" x 30"
W3-5b	48" x 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

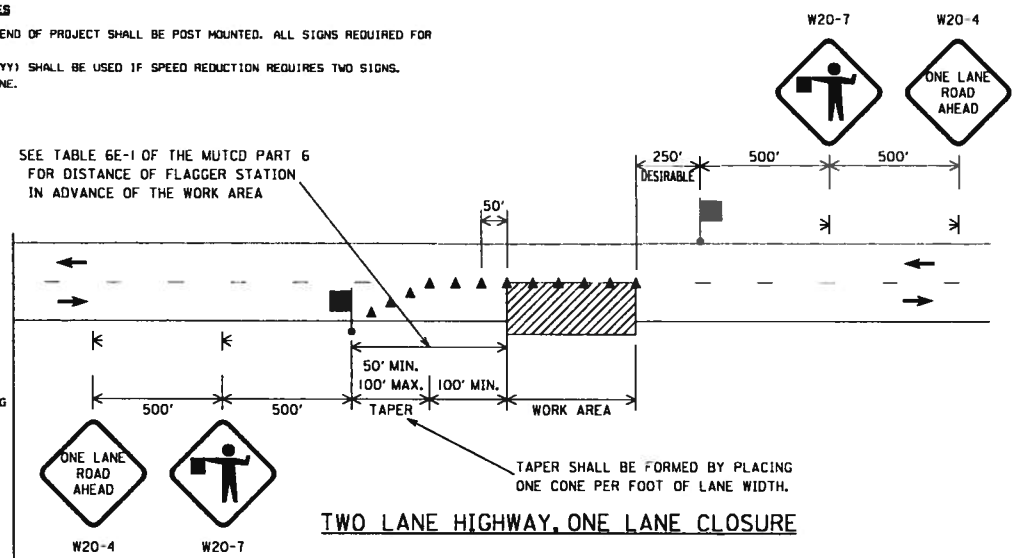
GENERAL NOTES

1. 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.
2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA



NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 SIGN SHOWN ON THE SIDE ROAD, WILL NOT BE REQUIRED IF ONE IS already POST MOUNTED ON THE SIDE STREET.



TWO LANE HIGHWAY, ONE LANE CLOSURE

LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER
- WORK AREA

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

DRAWN BY:
DATE DRAWN: 10/30/2012

SPECIAL PROJECT DETAIL

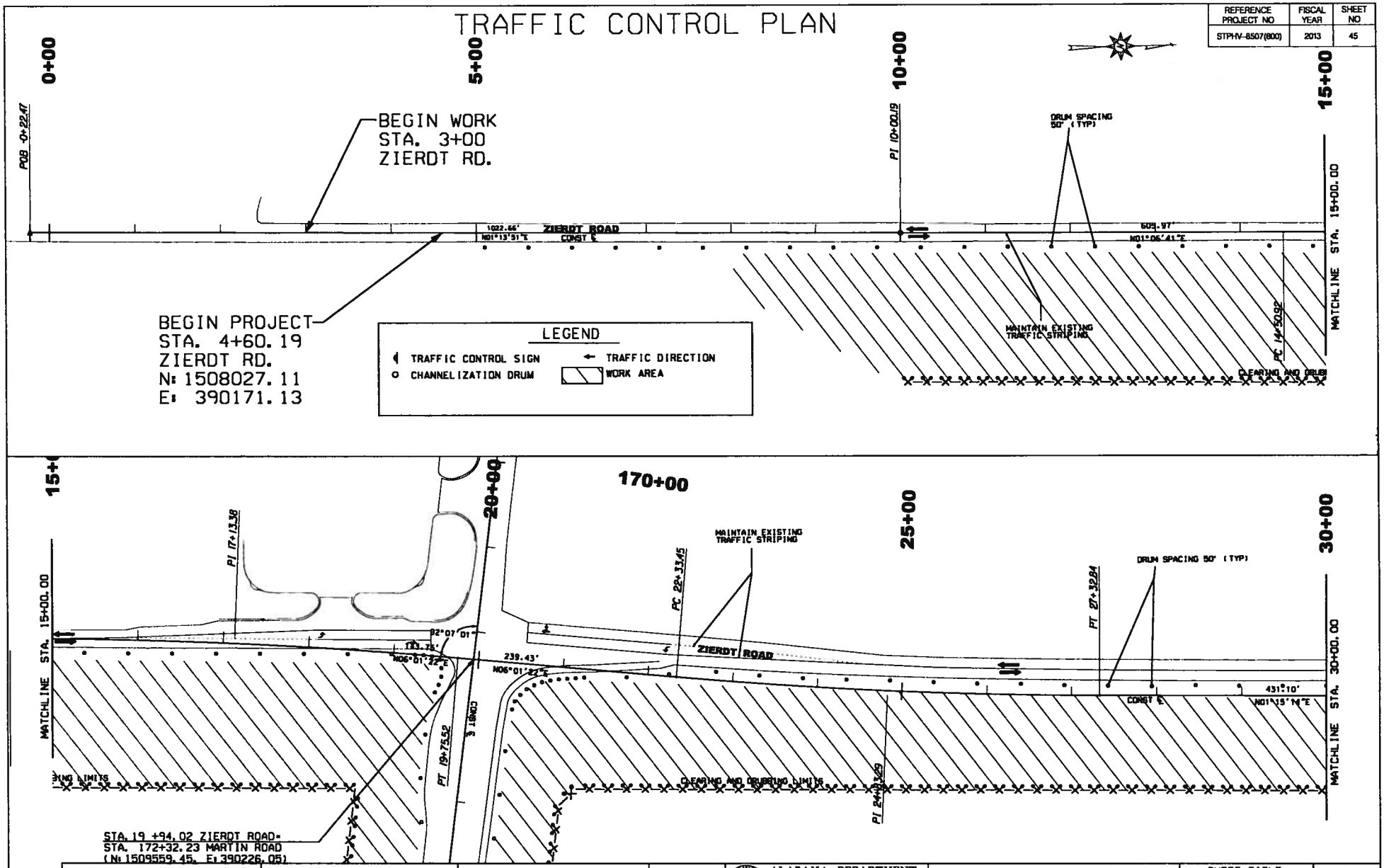
INDEX NO. 2002

NOT TO SCALE

SHEET TITLE	ROUTE
TEMPORARY TRAFFIC CONTROL PLAN SHEET	ZIERDT ROAD

TRAFFIC CONTROL PLAN

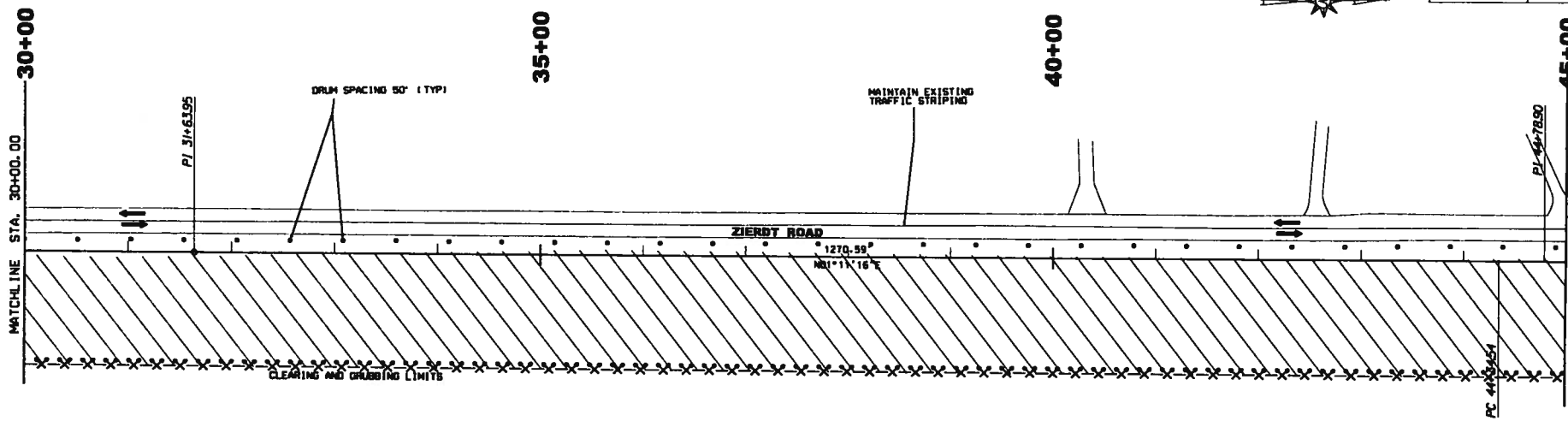
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	45



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 0+00 TO STA 30+00 ZIERDT ROAD	ZIERDT ROAD

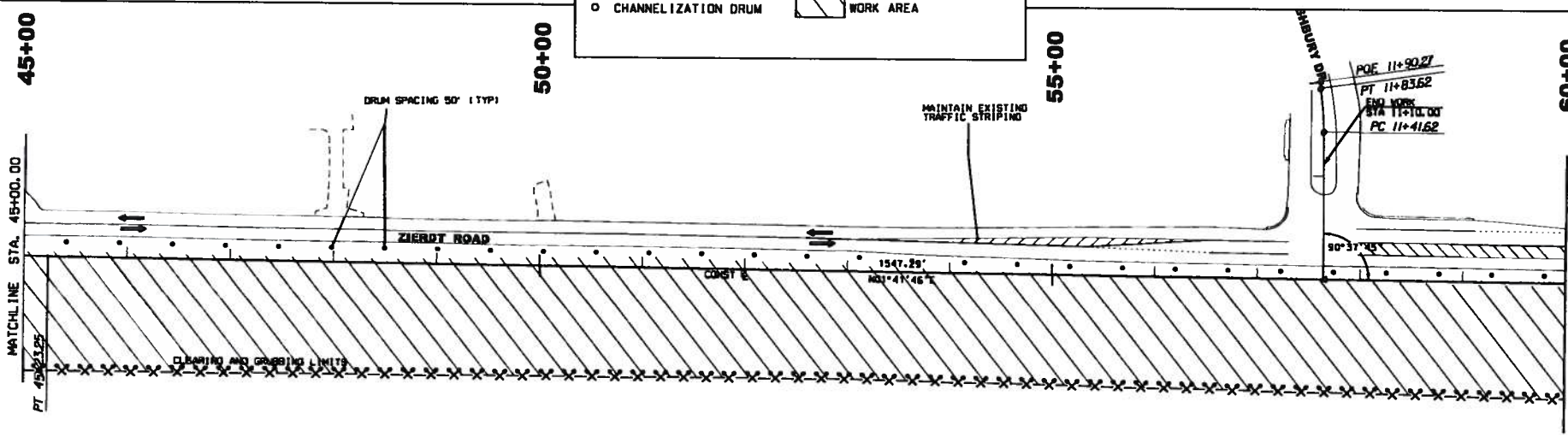
TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	45A



LEGEND

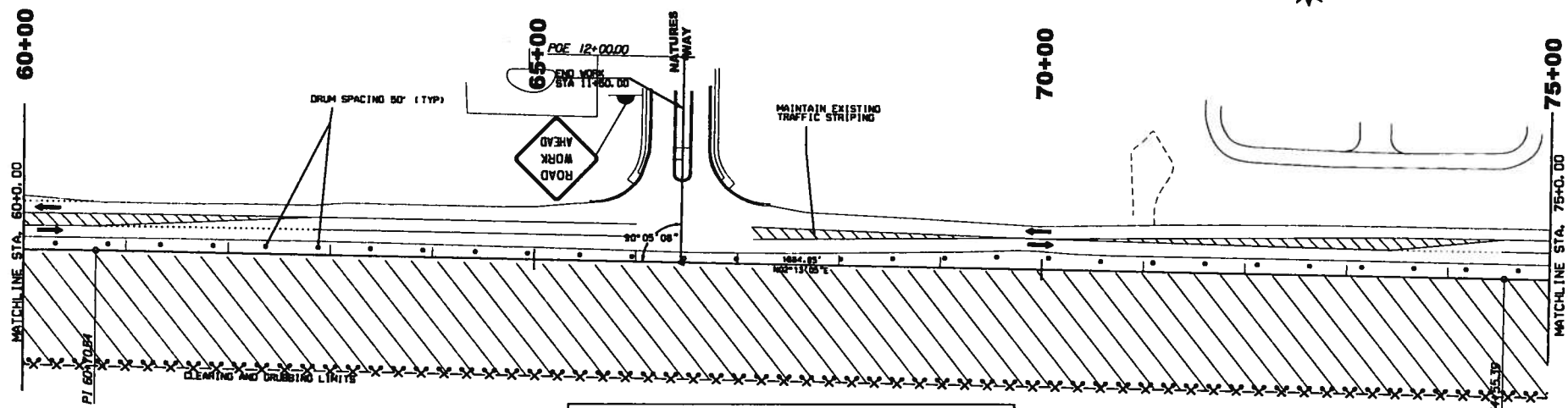
- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		PHASE II TRAFFIC CONTROL PLANS STA 30+00 TO STA 60+00 ZIERDT ROAD	ZIERDT ROAD

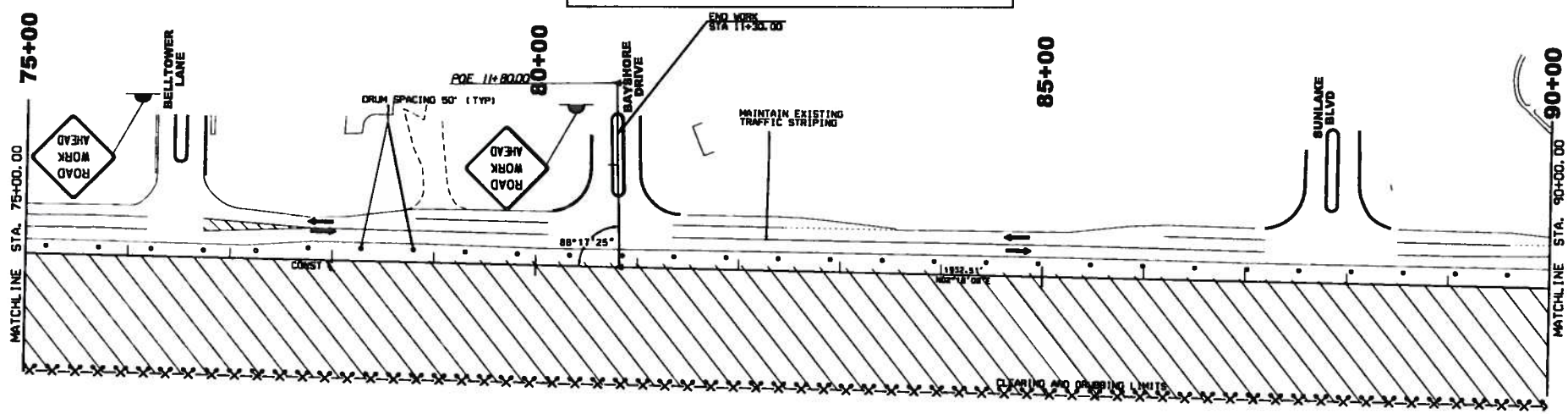
TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	45B



LEGEND

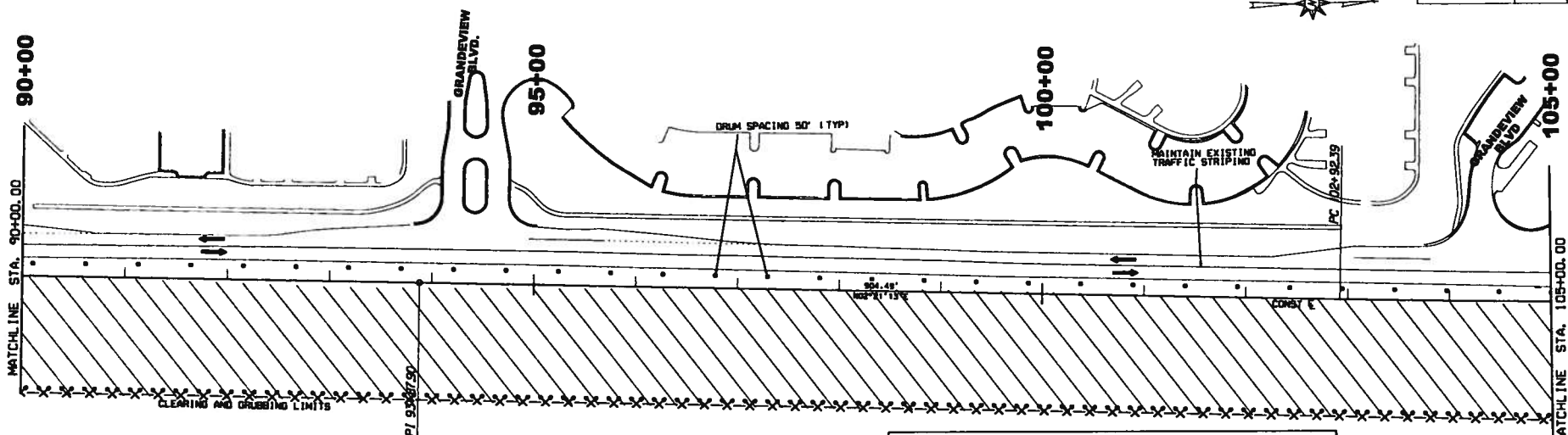
- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 60+00 TO STA 90+00 ZIERDT ROAD	ZIERDT ROAD

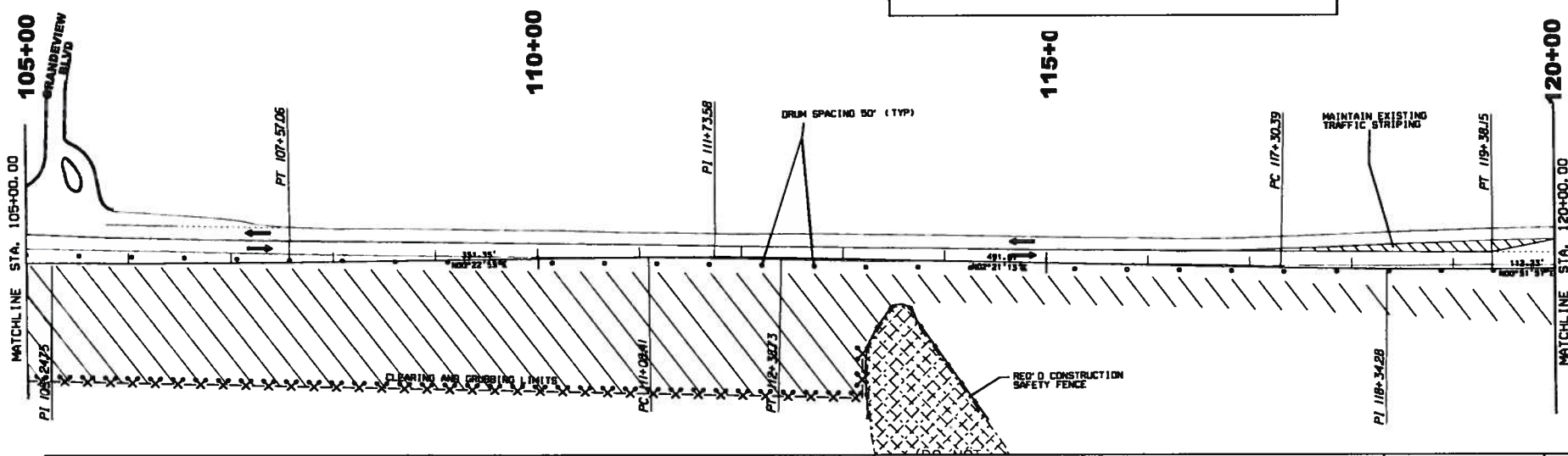
TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-HV-8507(600)	2013	45C



LEGEND

- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

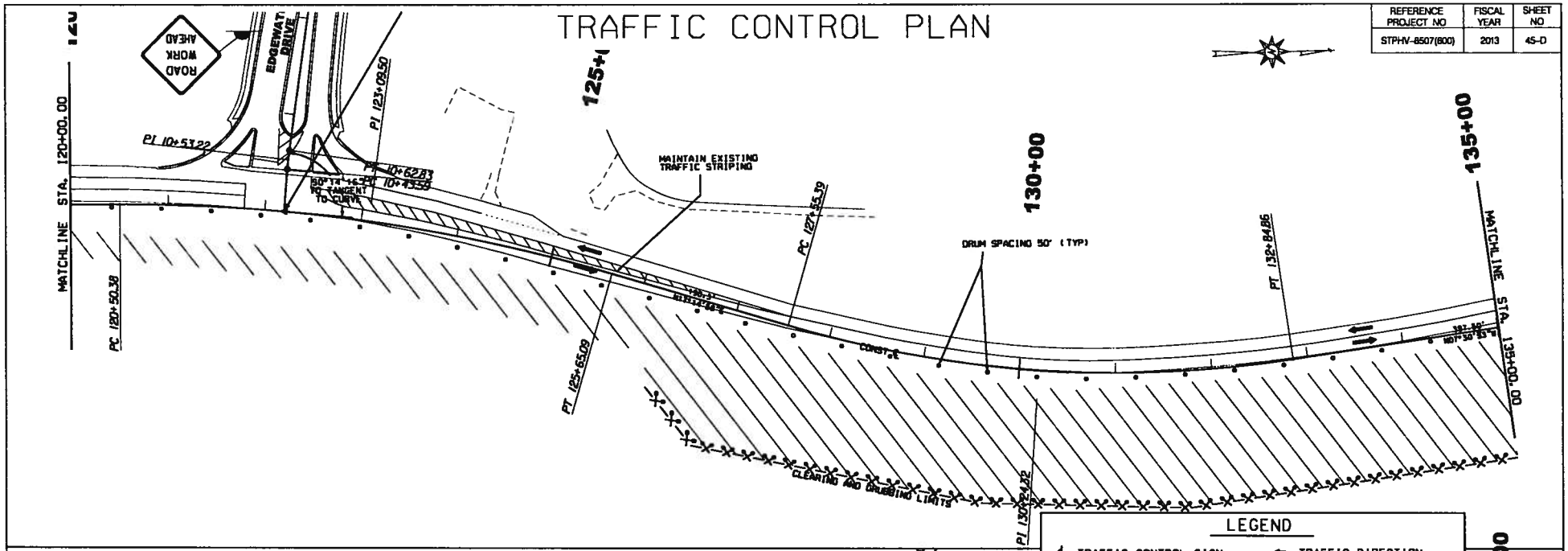
ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

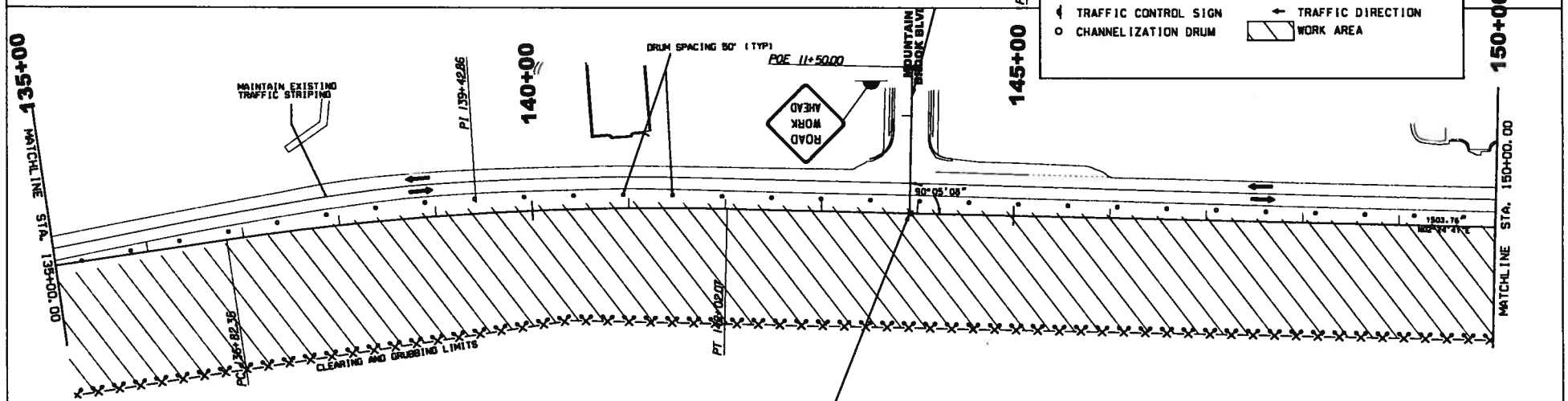
HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
TRAFFIC CONTROL PLANS STA 90+00 TO STA 120+00 ZIERDT ROAD	ZIERDT ROAD

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	45-D





LEGEND

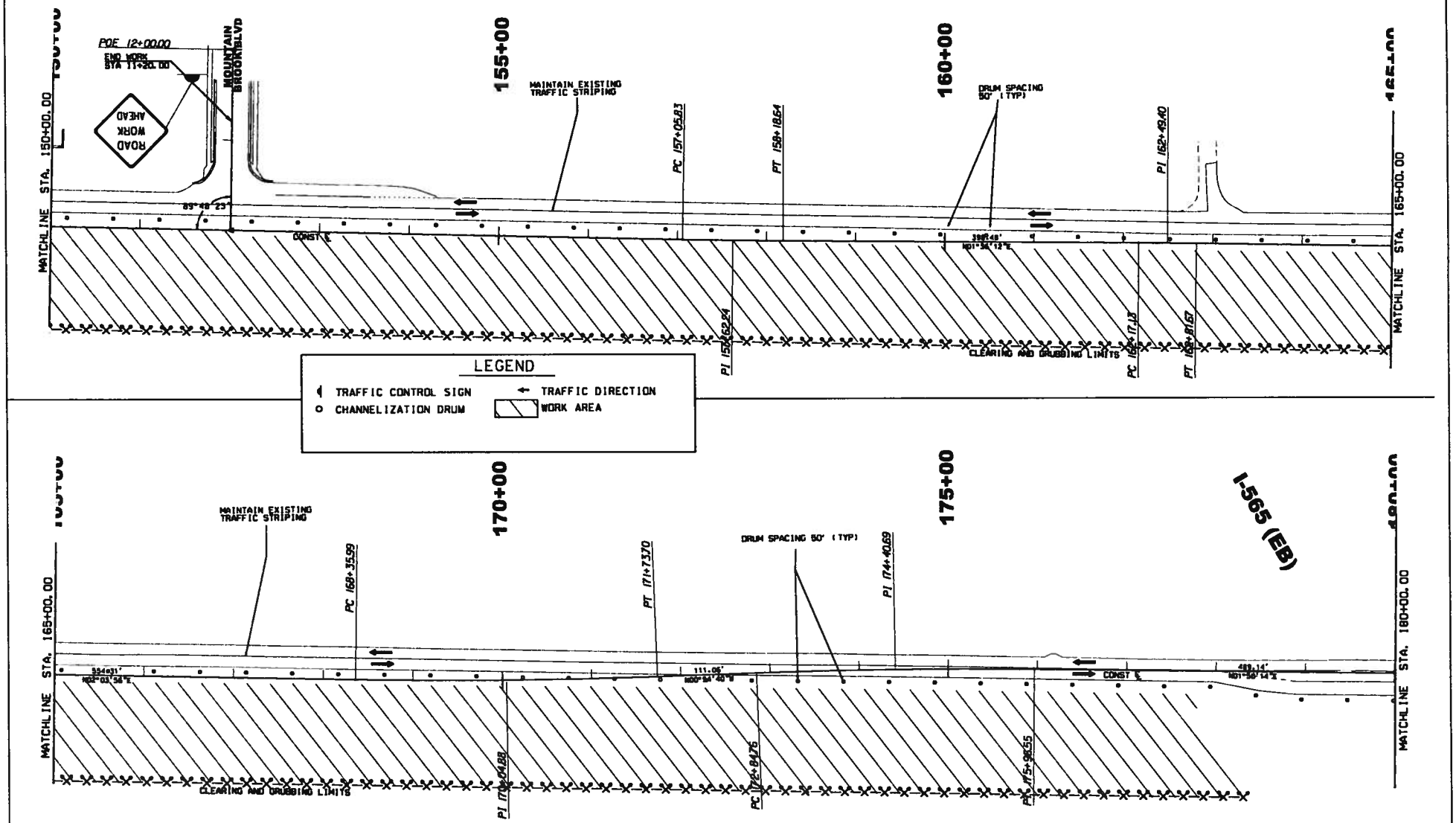
- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA

STA. 143+91.89 ZIERDT ROAD=
STA. 10+00.00 MOUNTAIN BROOK BLVD
(N= 1521922.23, E= 390693.94)

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 120+00 TO STA 150+00 ZIERDT ROAD	ZIERDT ROAD

TRAFFIC CONTROL PLAN

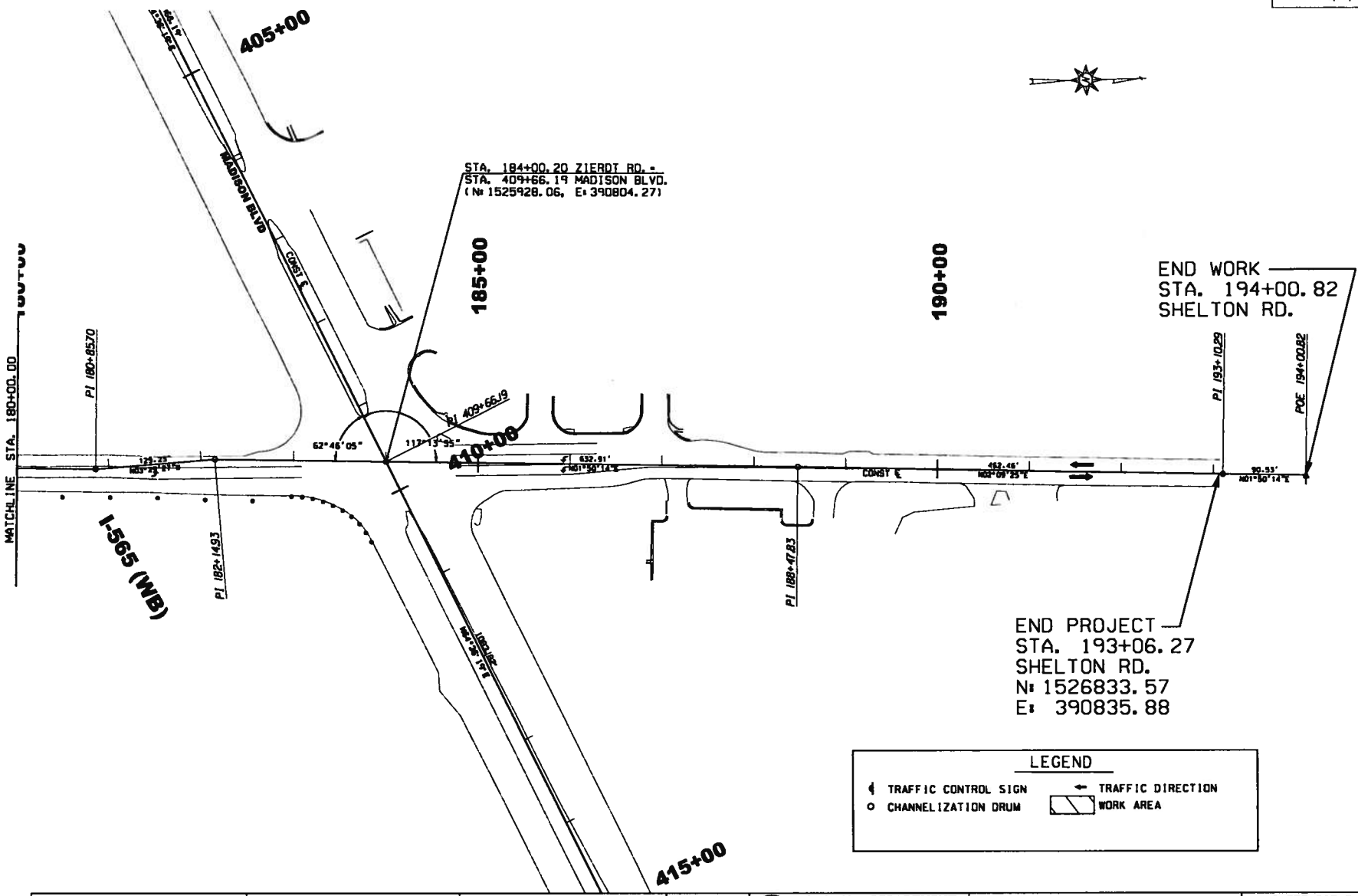
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	45E



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 150+00 TO STA 180+00 ZIERDT ROAD	ZIERDT ROAD

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STP-HV-8507(600)	2013	45F



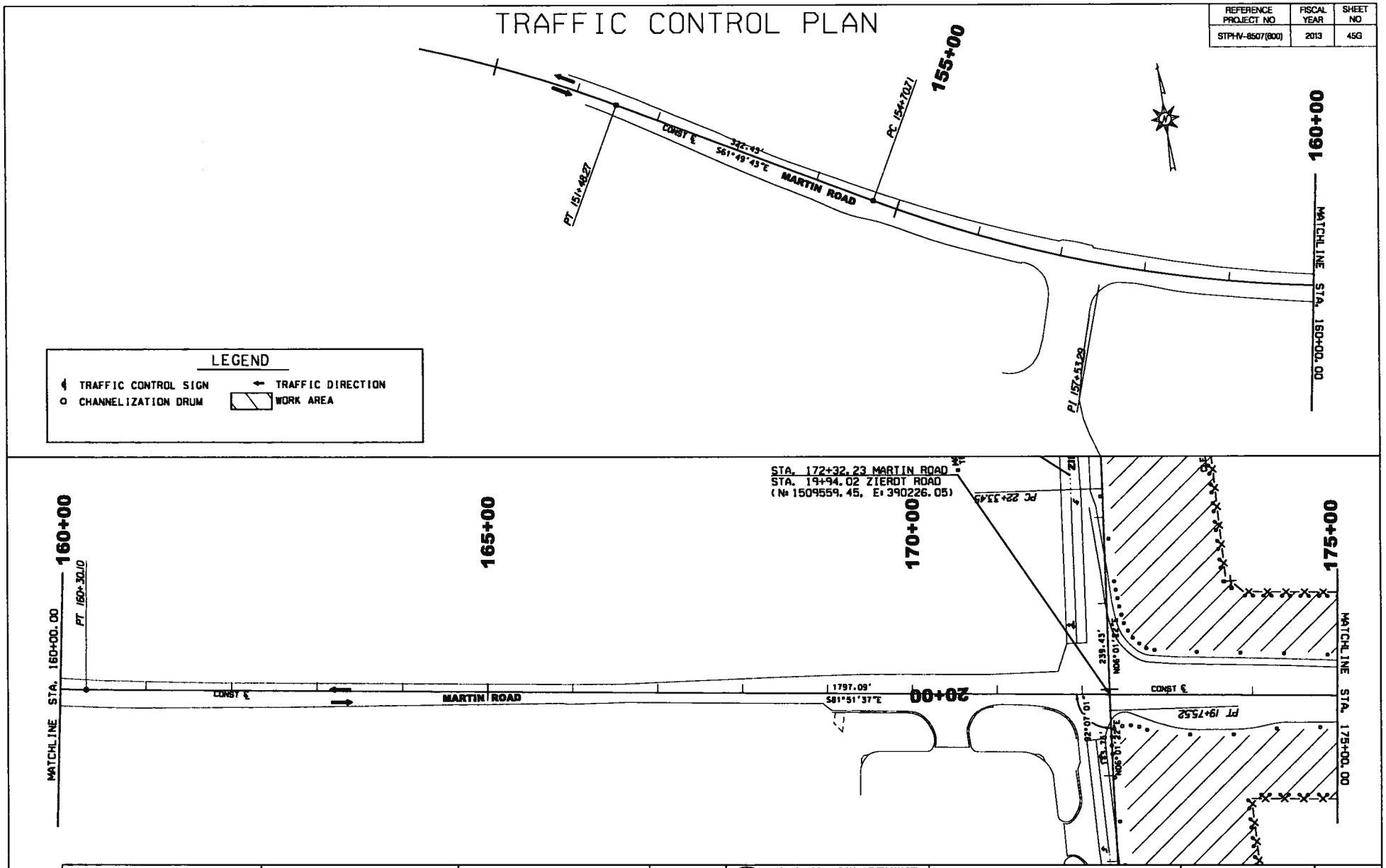
LEGEND

- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 180+00 TO STA 193+05 ZIERDT ROAD	ZIERDT ROAD

TRAFFIC CONTROL PLAN

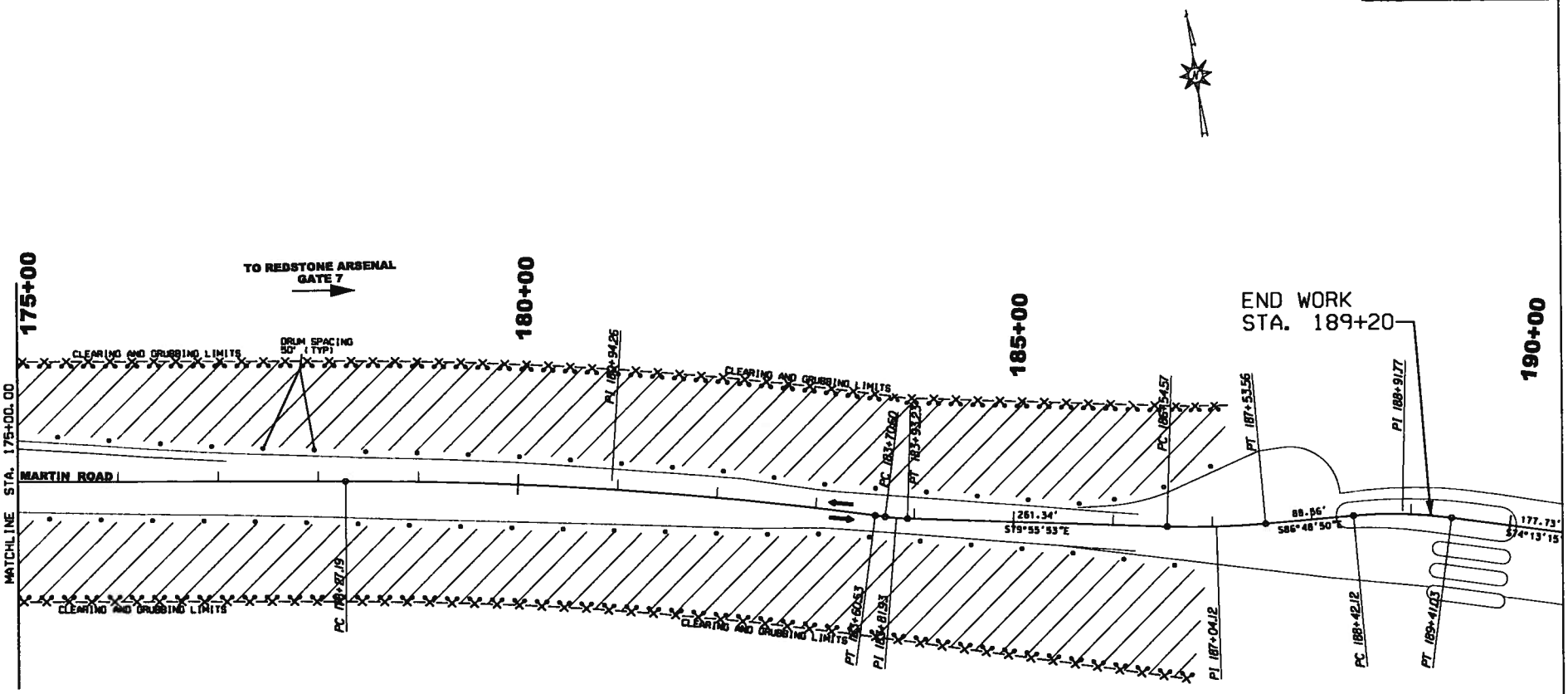
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	45G



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 156+00 TO STA 175+00 MARTIN ROAD	MARTIN ROAD

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	45H



LEGEND

- TRAFFIC CONTROL SIGN
- CHANNELIZATION DRUM
- TRAFFIC DIRECTION
- WORK AREA

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		TRAFFIC CONTROL PLANS STA 175+00 TO STA 189+20 MARTIN ROAD	MARTIN ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	48

EROSION AND SEDIMENT CONTROL PLANS LEGEND

BEST MANAGEMENT PRACTICES (BMP's)

TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	
TEMPORARY EARTH BERM	
BRUSH BARRIER	
SILT FENCE SEDIMENT BARRIER	
FLOATING BASIN BOOM	
HAY BALE DITCH CHECK	
SAND BAG DITCH CHECK	
WATTLE DITCH CHECK	
SILT DIKE DITCH CHECK	
ROCK DITCH CHECK	
ROCK DITCH CHECK WITH SUMP EXCAVATION	

INLET PROTECTION	
STABILIZED CONSTRUCTION ENTRANCE	SCE
EROSION CONTROL PRODUCTS	
SLOPE DRAIN	
TEMPORARY EARTH BERM WITH POLYETHLENE	
DREDGE, FILL	
PRIMARY STORMWATER DISCHARGE POINT	25.0
SECONDARY STORMWATER DISCHARGE POINT	25.A
BACKGROUND POINT	25.1

EROSION AND SEDIMENT CONTROL PHASES

PRE-CONSTRUCTION PHASE - AS CLEARING BEGINS AND PRIOR TO ANY GRUBBING OR GRADING WORK.

CONSTRUCTION PHASE - AS NEEDED. AS WORK IS ONGOING AND ADVANCING TOWARD COMPLETION.

POST CONSTRUCTION - AS WORK IS COMPLETED AND PERMANENT VEGETATION IS ESTABLISHED.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

SPECIAL PROJECT DETAIL

EROSION AND SEDIMENT CONTROL LEGEND

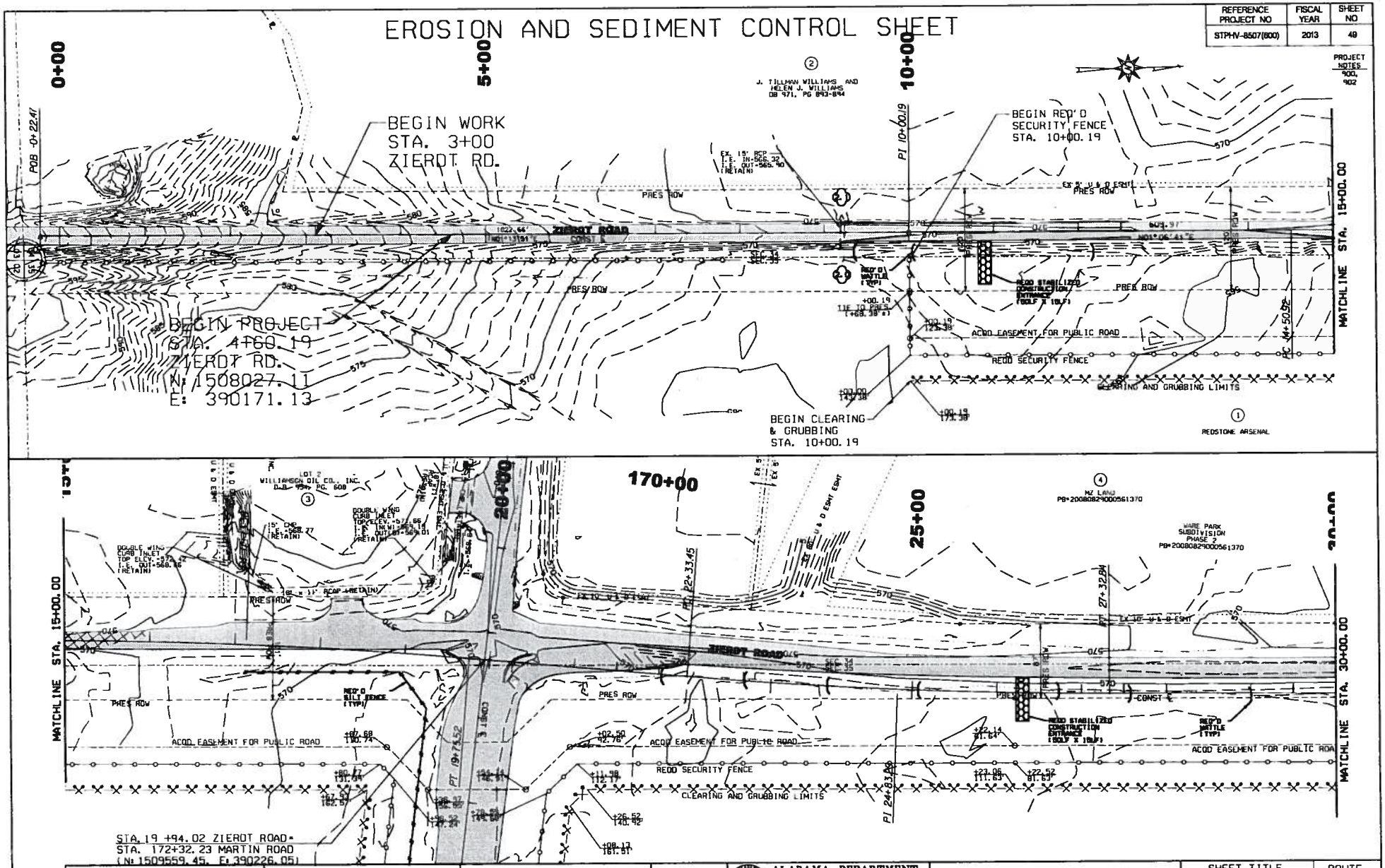
DRAWN BY: CKM
DATE DRAWN: 2008

NOT TO SCALE

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	49

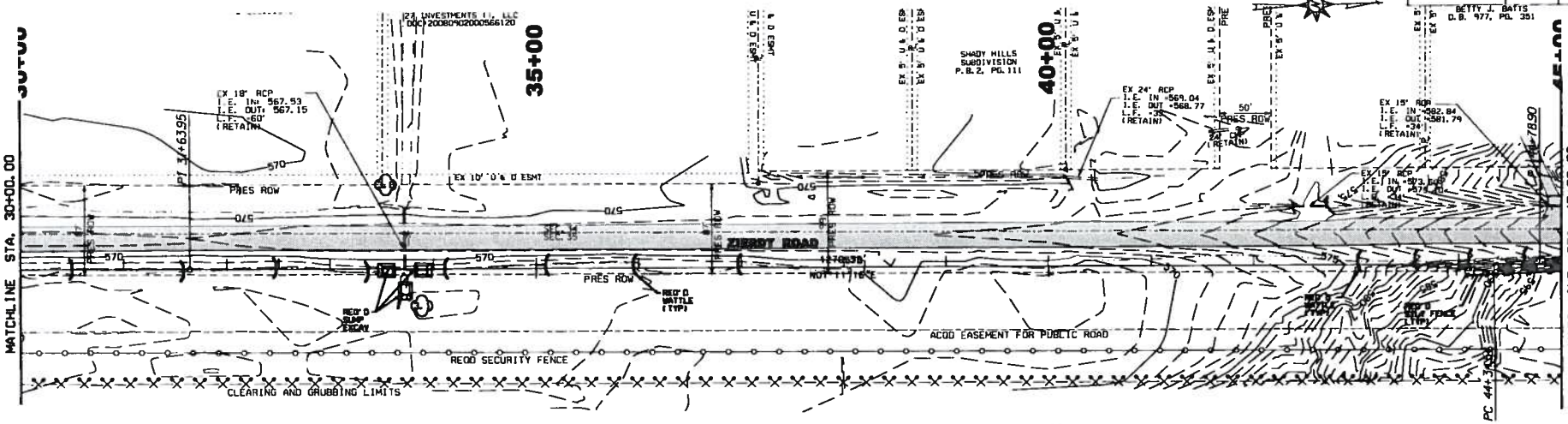
PROJECT NOTES 900, 902

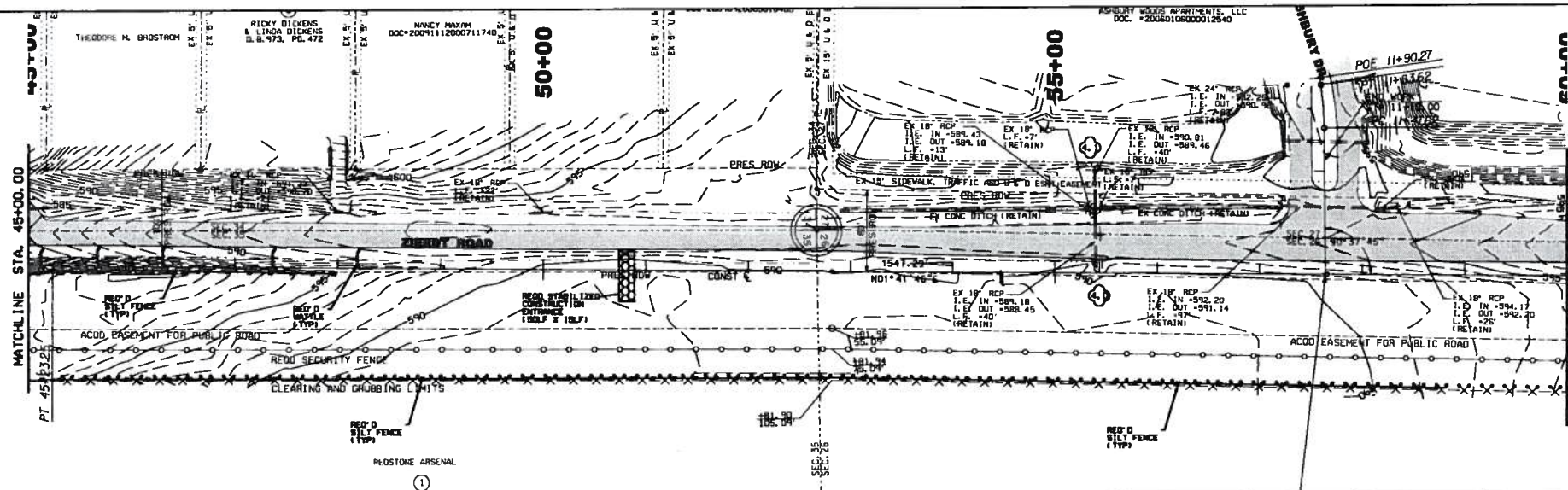


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		EROSION AND SEDIMENT CONTROL SHEET	ZIEROT ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	50





RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION

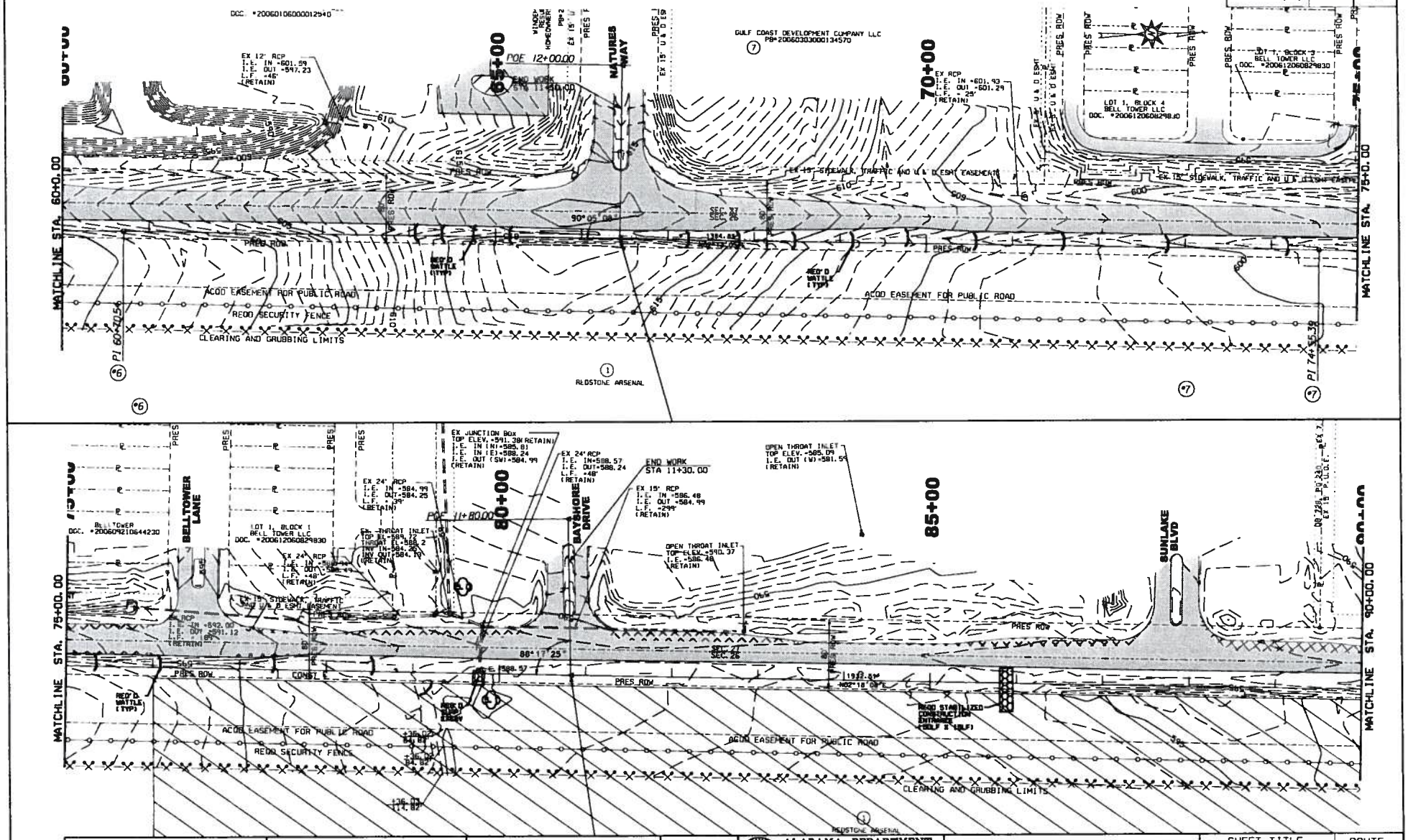
GARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

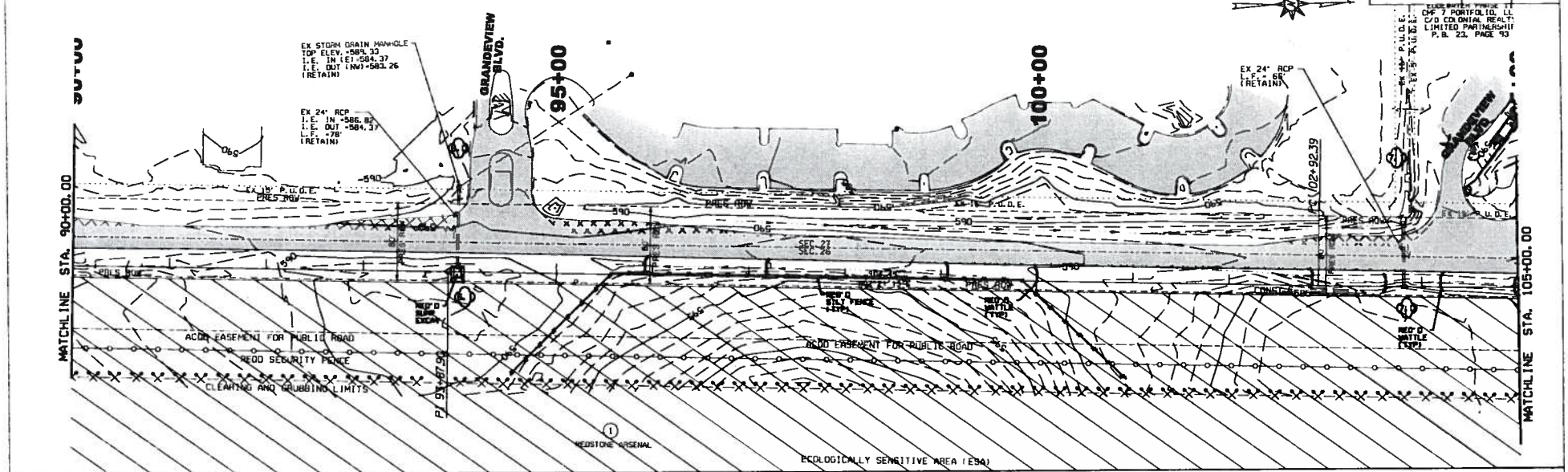
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	51

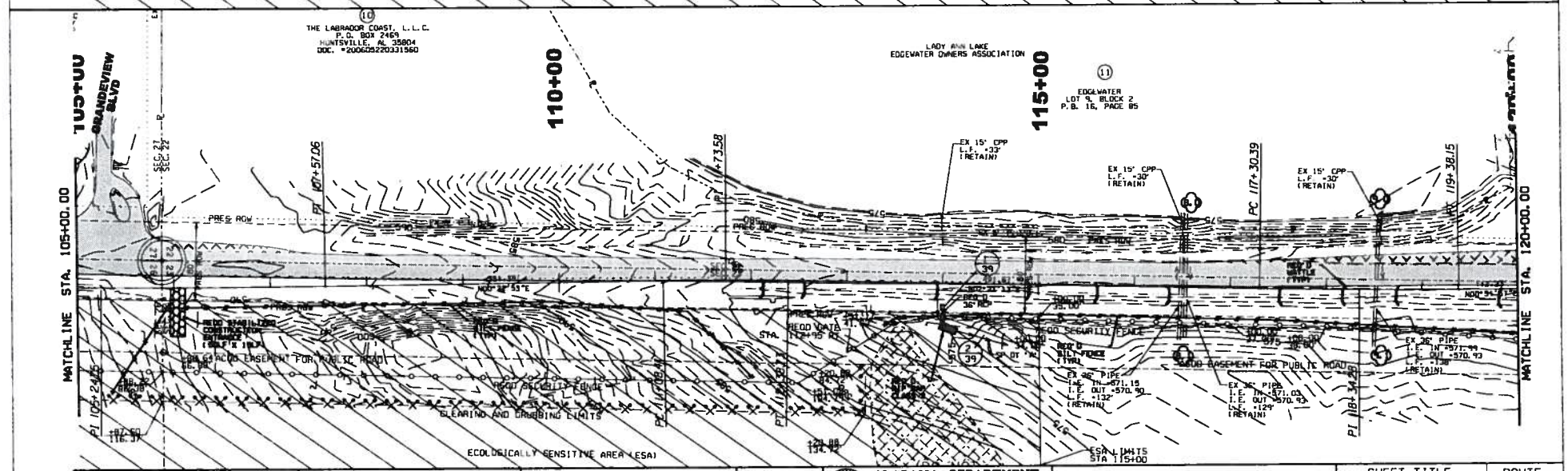


RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	52





RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION

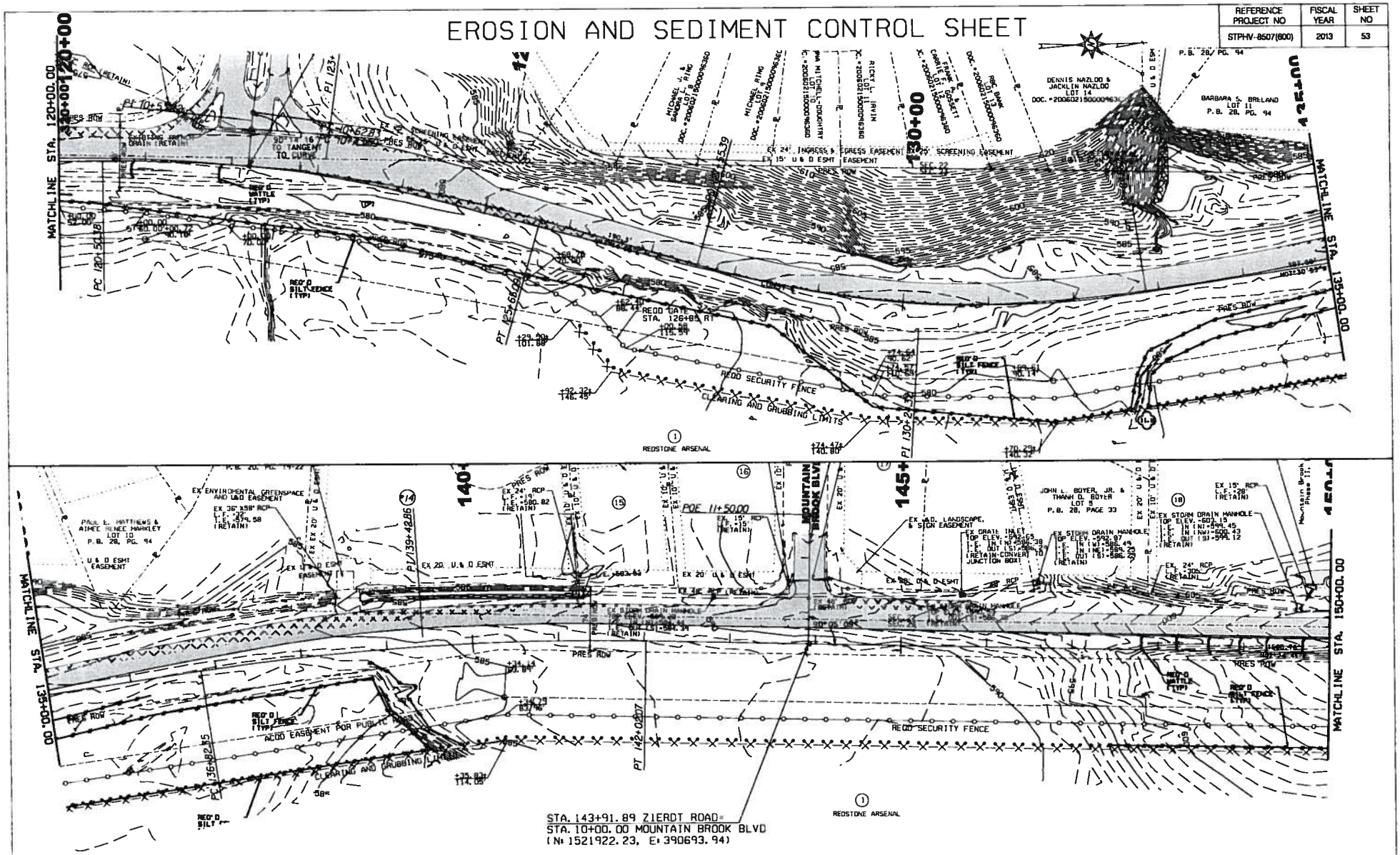
GARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	53



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION

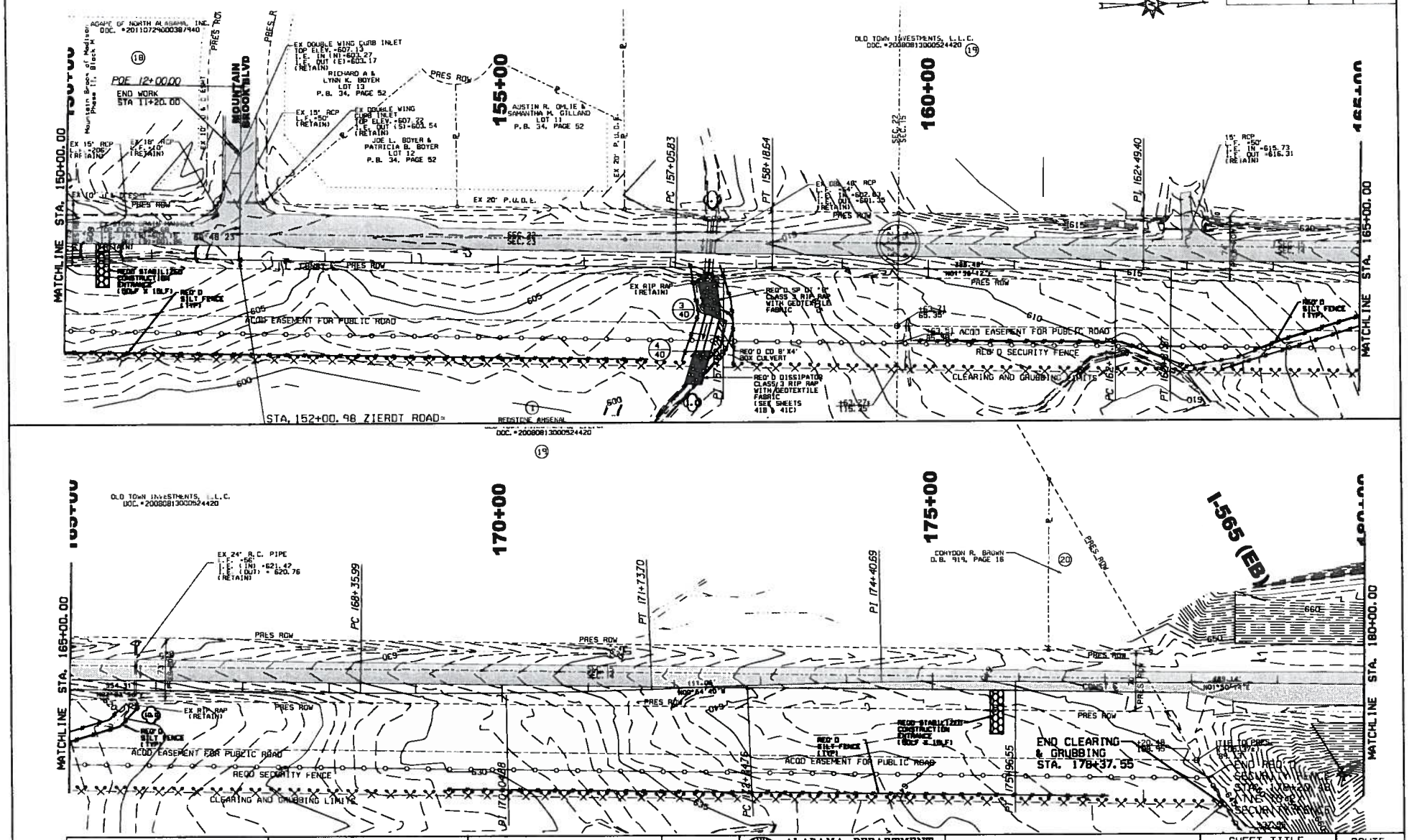
GARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	54



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION

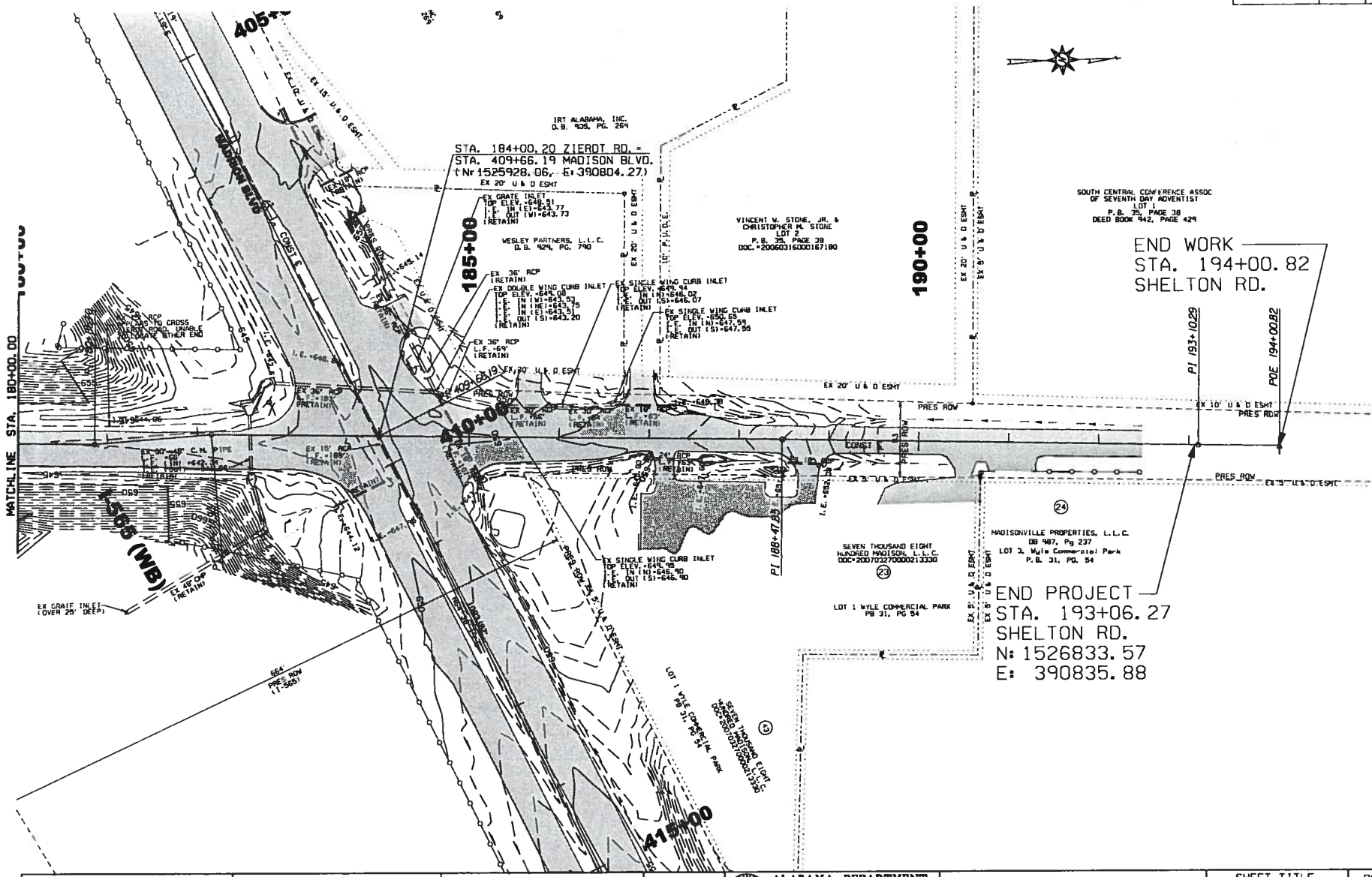
HARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	55



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

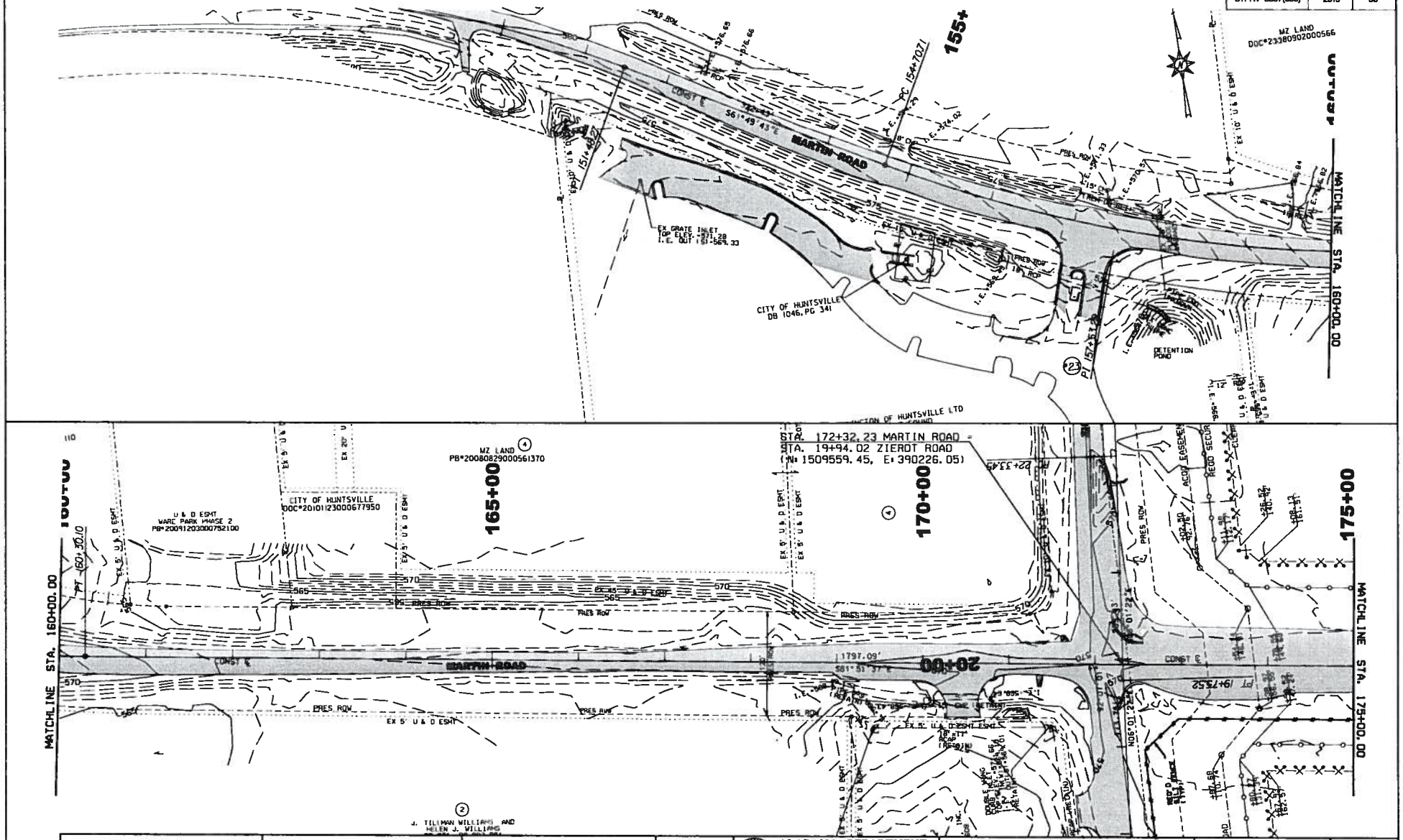
ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

HORIZ 50 0 50 100 SCALE (FEET)

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL SHEET	ZIERDT ROAD

EROSION AND SEDIMENT CONTROL SHEET

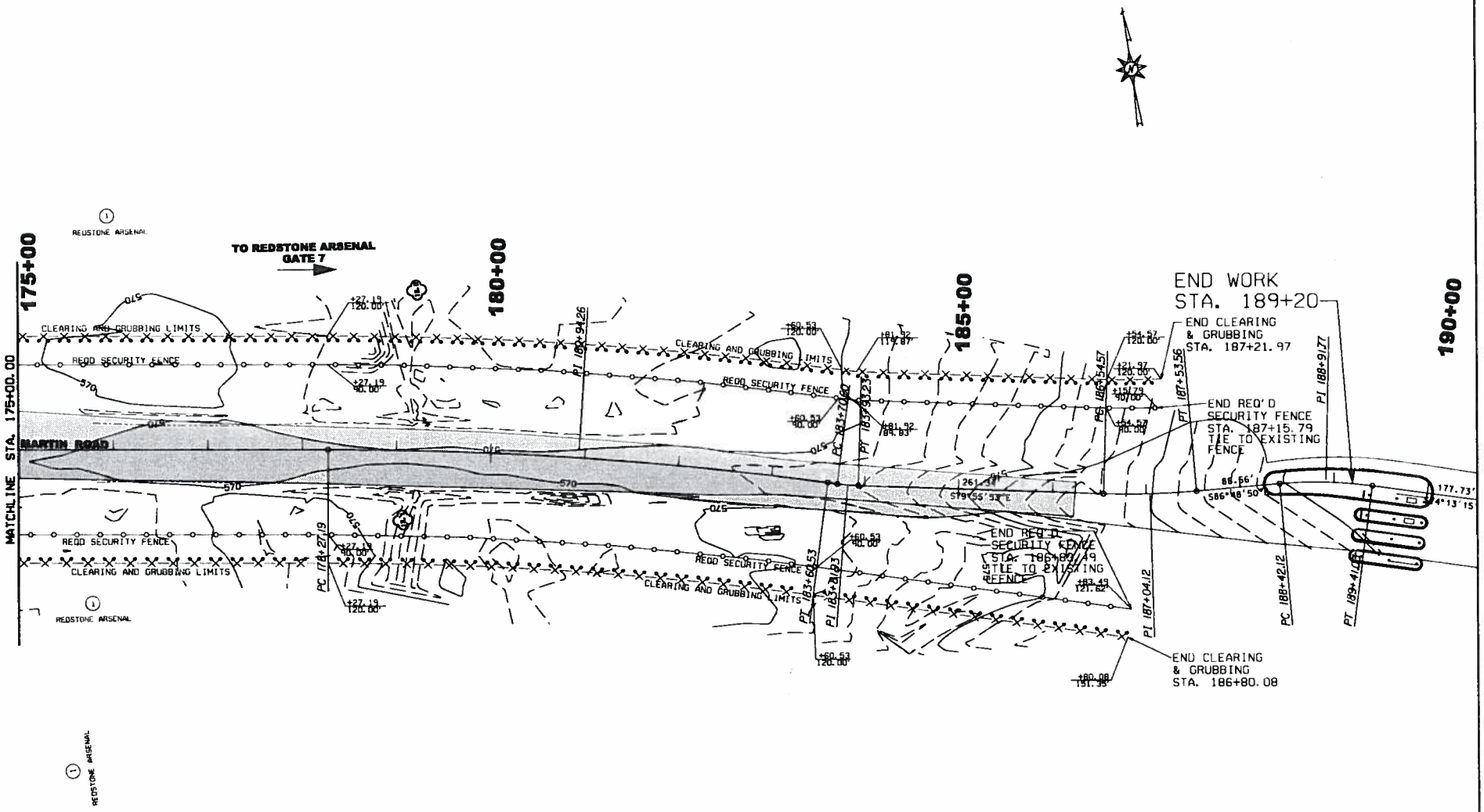
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	56



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		EROSION AND SEDIMENT CONTROL SHEET	MARTIN ROAD

EROSION AND SEDIMENT CONTROL SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	57



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	HORIZ 50 0 50 100 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				EROSION AND SEDIMENT CONTROL SHEET	MARTIN ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63

US Army Corps
of Engineers
Omaha District

STANDARD DETAILS FOR CHAIN-LINK SECURITY FENCES AND FARM STYLE FENCES

DRAWING INDEX

DRAWING CODE	REVISIONS REV NO	REVISIONS AM/CD	
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]
[illegible]			[illegible]

$$ - THINK VALUE ENGINEERING - $$

Symbol	Revisions Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: x
Drawn by: x
Checked by: x
Reviewed by: x
Submitted by:
Chief: x Section:

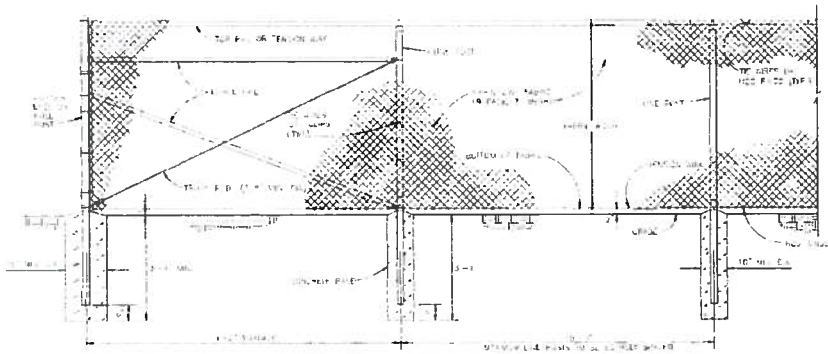
BASE NAME: STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES
BASE LOCATION:

COVER SHEET & INDEX

Plot Scale Rater: x x x
Design Fm: [illegible]
Spec. No.: DACA 45
Contract No.: DACA 45
Date: September 2001
Drawing Code: STD 872-90-00
Sheet reference number: 00

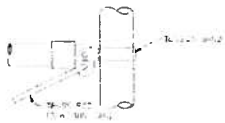
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63A



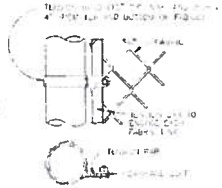
FE5 CHAIN-LINK SECURITY FENCE DETAIL
NO SCALE

TRUSS ROD AND BAND
NO SCALE



ROUND POST

H-BEAM
BRACE RAIL CLAMP DETAILS

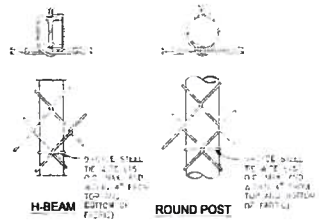


END OR GATE POST DETAIL

TENSION BAND DETAIL

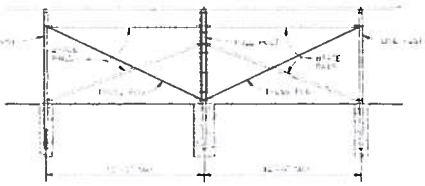
FASTENING DETAILS
NO SCALE

TOP OR BRACE RAIL ATTACHMENT

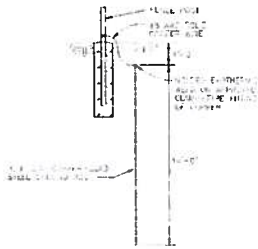


H-BEAM ROUND POST

LINE POST ATTACHMENTS



BRACE PANEL DETAIL
NO SCALE



GROUNDING DETAIL
NO SCALE

USE AND SIZE OF	
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

NOTES:

FENCE LEGEND:

SS - THINK VALUE ENGINEERING - SS

Symbol	Revisions Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by X
Drawn by X
Checked by X
Reviewed by X
Submitted by
Sheet X Section

BASE NAME
BASE LOCATION
STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FE5 CHAIN-LINK SECURITY FENCE DETAILS

Plot Scale Ratio
Design File PFSFE1A
Date C1-01,C2
Signature or number
Sheet No BACA 43
Drawing Code STD 07-00 02
Total sheets No BACA 65
02

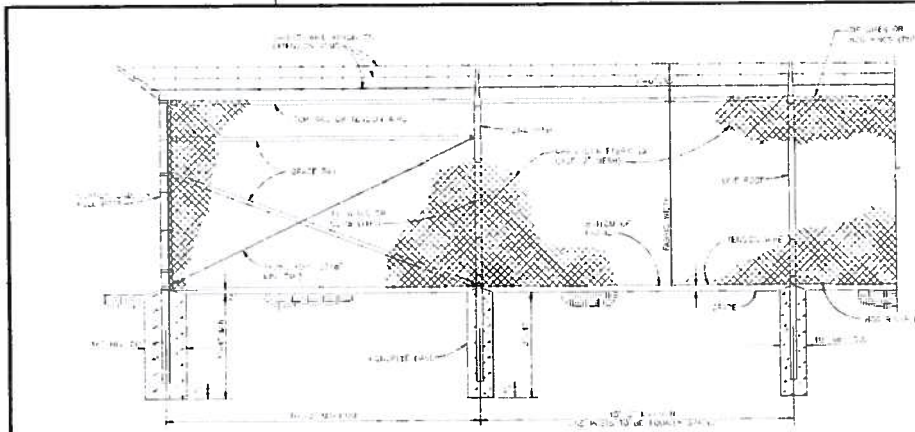
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

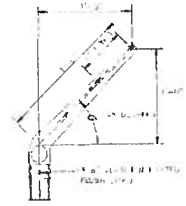
NOT TO SCALE

SHEET TITLE	ROUTE
SPECIAL PROJECT DETAIL	ZIERDT ROAD

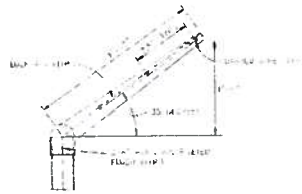
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63B



CHAIN LINK SECURITY FENCE DETAIL
NO SCALE



LINE POST



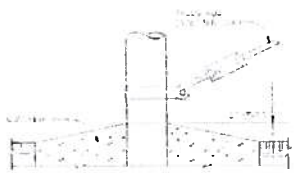
CORNER POST

EXTENSION ARM DETAILS
NO SCALE

STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL) FABRIC LESS THAN 72"	FABRIC 72" TO 96"	FABRIC OVER 96"
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

TOP OR BRACE RAIL ATTACHMENT

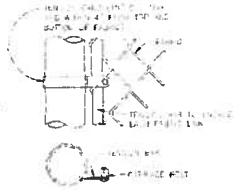


TRUSS ROD AND BAND

ROUND POST

H-BEAM

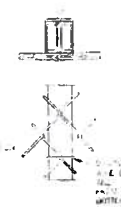
BRACE RAIL CLAMP DETAILS



END OR GATE POST DETAIL

TENSION BAND DETAIL

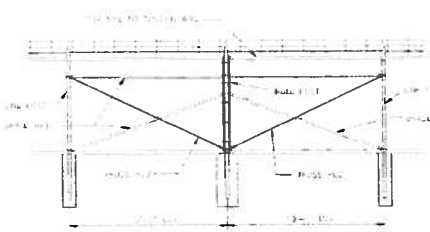
FASTENING DETAILS
NO SCALE



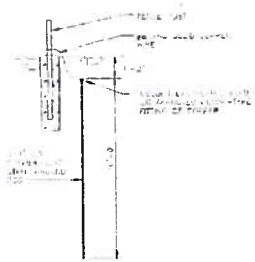
H BEAM

ROUND POST

LINE POST ATTACHMENTS



BRACE PANEL DETAIL
NO SCALE



GROUNDING DETAIL
NO SCALE

NOTES

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

FENCE LEGEND

[illegible]

ENGINEER

[illegible]

$$ - THINK VALUE ENGINEERING - $$

Revisions

Symbol	Descriptions	Plate	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: x
Drawn by: x
Checked by: x
Reviewed by: x
Submitted by:
Chief x Section

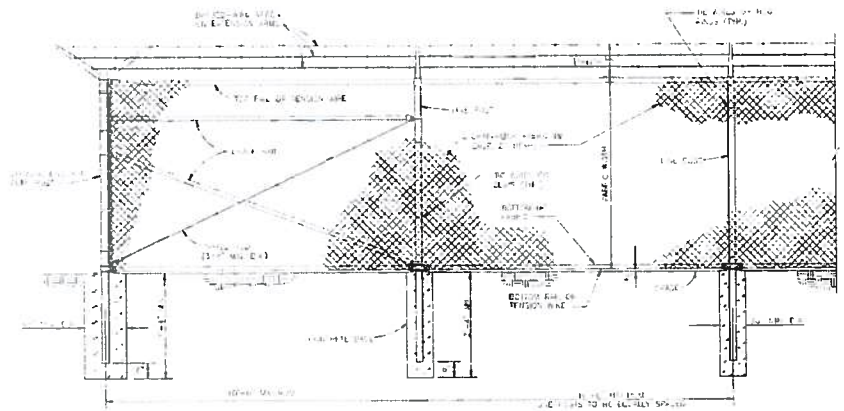
STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FE6 CHAIN-LINK SECURITY FENCE DETAILS

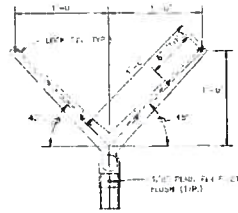
Plot Scale Ratio 1:1
Design File FE6FENCE
Scale No DACA 45
Contract No DACA 45
Date 02/01/02
Drawing Code STD 87 SC-03
Sheet Reference Number 03

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

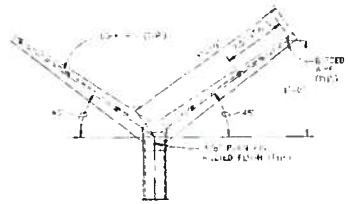
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63C



CHAIN-LINK SECURITY FENCE DETAIL
NO SCALE



LINE POST

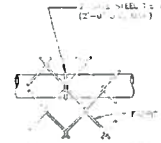


CORNER POST

EXTENSION ARM DETAILS
NO SCALE

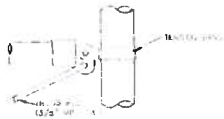
STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC LESS THAN 72"	FABRIC 72" TO 96"	FABRIC OVER 96"
CORNER POSTS			
TUBULAR - ROUND	[illegible]	[illegible]	[illegible]
TUBULAR - SQUARE	[illegible]	[illegible]	[illegible]
H-SECTION (WIDE FLANGE)	[illegible]	[illegible]	[illegible]
LINE POSTS			
TUBULAR - ROUND	[illegible]	[illegible]	[illegible]
H-SECTION	[illegible]	[illegible]	[illegible]
CONCRETE REINFORCEMENT	[illegible]	[illegible]	[illegible]
TOP, BOTTOM & BRACE RAILS			
TUBULAR - ROUND	[illegible]	[illegible]	[illegible]
TUBULAR - SQUARE	[illegible]	[illegible]	[illegible]
H-SECTION	[illegible]	[illegible]	[illegible]
CONCRETE REINFORCEMENT	[illegible]	[illegible]	[illegible]



TOP OR BRACE RAIL ATTACHMENT

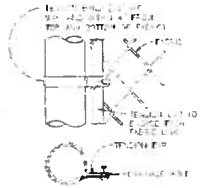
TRUSS ROD AND BAND



ROUND POST

H-BEAM

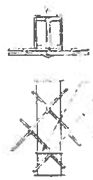
BRACE RAIL CLAMP DETAILS



END OR GATE POST DETAIL

TENSION BAND DETAIL

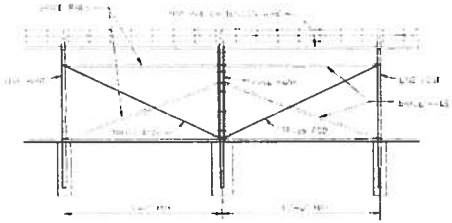
FASTENING DETAILS
NO SCALE



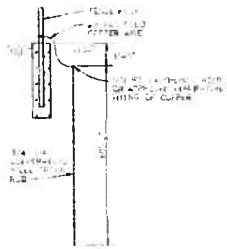
H-BEAM

ROUND POST

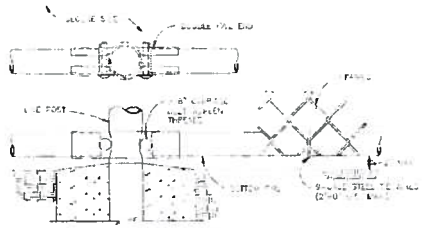
LINE POST ATTACHMENTS



BRACE PANEL DETAIL
NO SCALE



GROUNDING DETAIL
NO SCALE



BOTTOM RAIL DETAILS
NO SCALE

NOTES

1. [illegible]

2. [illegible] SHALL BE ON THE OUTSIDE OF THE SECURE AREA.

3. [illegible] THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOOTING.

4. BOTTOM RAIL SHALL BE ATTACHED TO TENSILE RAIL ENDS USING BRACE PARTS AS SHOWN.

FENCE LEGEND

TYPE FE5 = CHAIN-LINK FENCE [illegible]
TYPE FE6 = CHAIN-LINK FENCE [illegible]
TYPE FE7 = CHAIN-LINK FENCE [illegible]
TYPE FE8 = CHAIN-LINK FENCE w/BARBED WIRE AND BARBED-TAPE ON [illegible]
TB = TENSION BAR THE [illegible] TENSION BAR AT MINIMUM
TOR = FENCE WITH TOP AND BOTTOM RAILS
TBR = TENSION BAR TOP AND BOTTOM
TBRM = TENSION BAR TOP [illegible] FENCE WITH BOTTOM RAIL
FMW = NEVER TO EXCEED WIDTH IN [illegible]

[illegible]

[illegible] = CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE CURB [illegible] RAIL AND 72 INCH FABRIC WIDTH

FE8 [illegible] = CHAIN-LINK SECURITY FENCE WITH NO BRACE [illegible] TENSION WIRE AND 48 INCH FABRIC WIDTH

$$ - THINK VALUE ENGINEERING - $$			
Symbol	Revisions Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: X
Drawn by: X
Checked by: X
Reviewed by: X
Submitted by: X
Chief: K

STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FE7 CHAIN-LINK SECURITY FENCE DETAILS FOR NON-SENSORED FENCE

Plot Scale Ratio: 1:1
Scale: [illegible]
Design File: FE7FEN1
Base No. DACA 45
Contract No. DACA 45
Drawing Code: STD 87 00 04
Layout Revision Number: 04

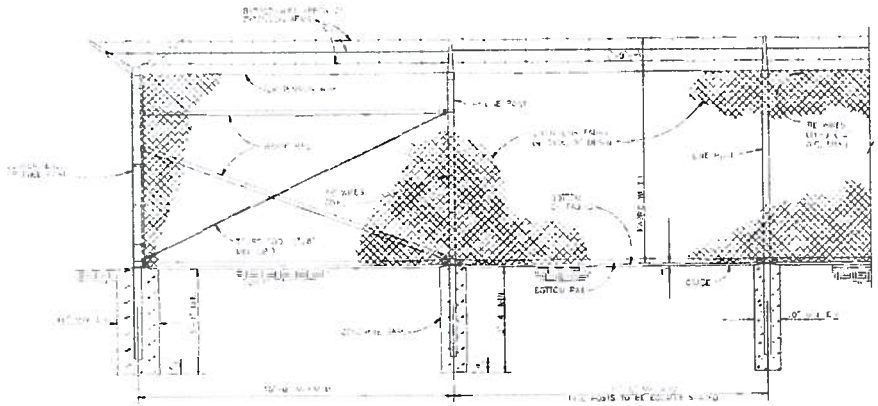
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

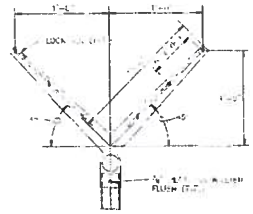
NOT TO SCALE

SHEET TITLE	ROUTE
SPECIAL PROJECT DETAIL	ZIERDT ROAD

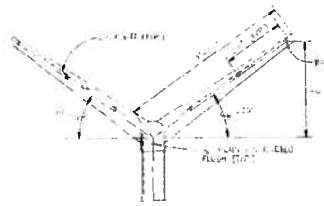
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63-D



CHAIN-LINK SECURITY FENCE DETAIL
NO SCALE



LINE POST

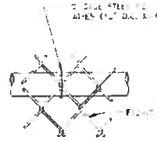


CORNER POST

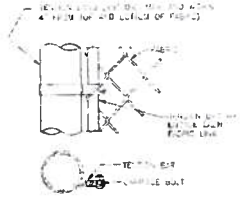
EXTENSION ARM DETAILS
NO SCALE

STEEL POST SCHEDULE

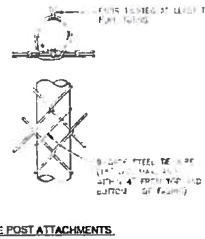
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC LESS THAN 72"	FABRIC 72" TO 96"	FABRIC OVER 96"
[illegible]	[illegible]	[illegible]	[illegible]
LINE POSTS [illegible]	[illegible]	[illegible]	[illegible]
BOTTOM & BRACE RAILS [illegible]	[illegible]		



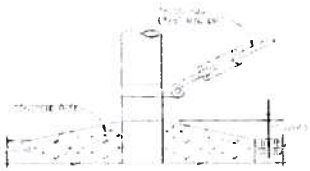
BRACE RAIL ATTACHMENT



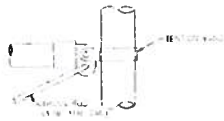
END OR GATE POST DETAIL



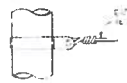
LINE POST ATTACHMENTS



TRUSS ROD AND BAND

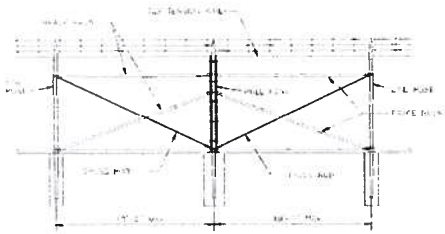


BRACE RAIL CLAMP DETAIL

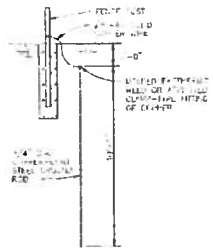


TENSION BAND DETAIL

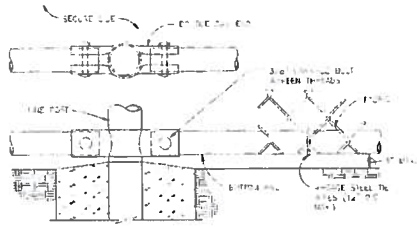
FASTENING DETAILS
NO SCALE



BRACE PANEL DETAIL



GROUNDING DETAIL
NO SCALE



BOTTOM RAIL DETAILS
NO SCALE

NOTES:

[illegible]

FENCE LEGEND:

Type KES – [illegible]
TYPE FLO – [illegible]
TYPE FET – [illegible]
TYPE FTP – [illegible]
TR – FENCE WITH TOP RAIL AND TENSION WIRE AT BOTTOM
TBR – FENCE WITH TOP AND BOTTOM RAILS
TWB – TENSION WIRE TOP AND BOTTOM
FWBT – FENCE WITH TOP TENSION WIRE AND BOTTOM RAIL
FINAL NUMBER IF FABRIC WIDTH IN INCHES

EXAMPLE:

FET-TP-72 – [illegible] SECURITY FENCE WITH BARBED WIRE [illegible] SINGLE CANTILEVER TOP RAIL AND 72 INCH FABRIC WIDTH

FWBT-TBR-96 – [illegible] SECURITY FENCE WITH [illegible] BOTTOM RAILS AND 96 INCH FABRIC WIDTH

$$ - THINK VALUE ENGINEERING - $$

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: X
Drawn by: X
Checked by: X
Reviewed by: X
Submitted by: Chief X Section X

STANDARD DETAILS FOR CHAIN-LINK SECURITY FENCES AND FARM STYLE FENCES

FE7 CHAIN-LINK SECURITY FENCE DETAILS FOR SENSORED FENCE

Plot Scale Name: 1:1
Date: 03/01/02
Drawing File: RUTHENI.DGN
Base No: DACA 45
Contract No: DACA 45
Drawing Code: STD 872-00-10
Signal Reference Number
05

THIS DWG SUPERSEDES DWG 40-18-08

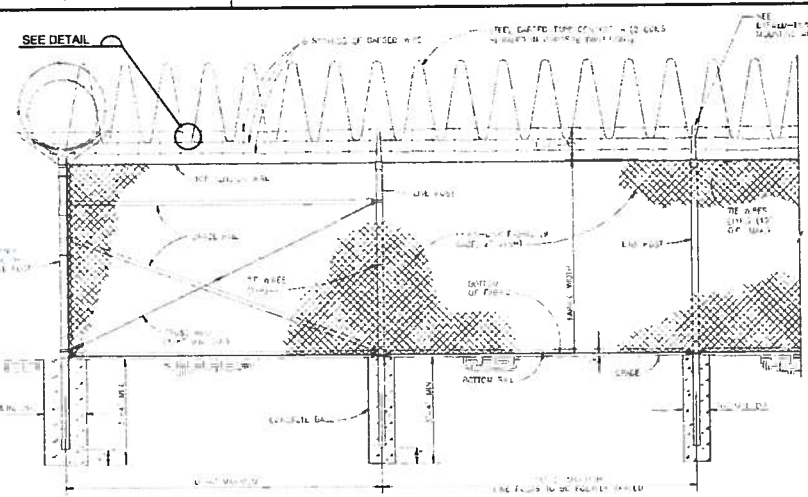
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

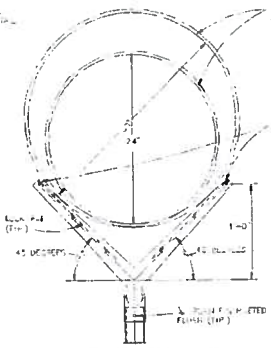
NOT TO SCALE

SHEET TITLE	ROUTE
SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63E



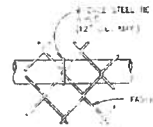
CHAIN-LINK SECURITY FENCE DETAIL



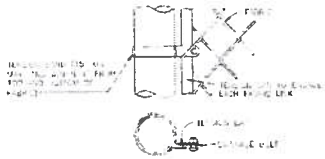
BARBED-TAPE MOUNTING DETAIL

DETAIL A

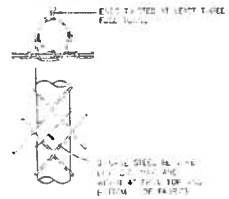
STEEL POST SCHEDULE			
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC LESS THAN 72"	FABRIC 72" TO 96"	FABRIC OVER 96"
CORNER, END & GATE POSTS			
TUBULAR – ROUND	2 3/8" O.D.	2 875" O.D.	4 0" O.D.
LINE POSTS			
TUBULAR – ROUND	1.900" O.D.	2 375" O.D.	2.875" O.D.
TOP, BOTTOM & BRACE RAILS			
TUBULAR – ROUND	[illegible]		
TUBULAR – SQUARE	[illegible]		
H-SECTION	[illegible]		
CORRUGATED (FULL STRUT)	[illegible]		



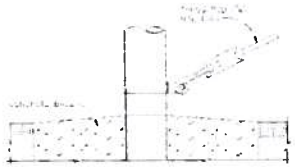
BRACE RAIL ATTACHMENT



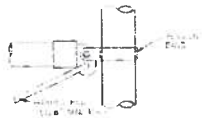
END OR GATE POST DETAIL



LINE POST ATTACHMENTS



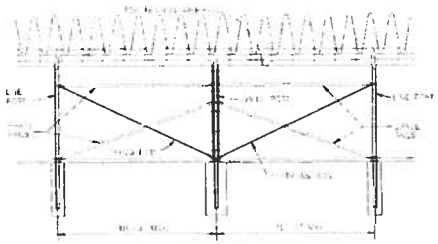
TRUSS ROD AND BAND



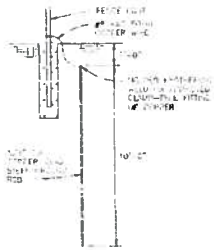
BRACE RAIL CLAMP DETAIL

TENSION BAND DETAIL

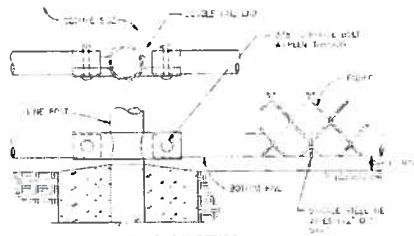
FASTENING DETAILS



BRACE PANEL DETAIL



GROUNDING DETAIL



BOTTOM RAIL DETAILS

NOTES:

FENCE LEGEND:

CABLES:

$$ - THINK VALUE ENGINEERING - $$

Symbol	Revisions Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by X
Drawn by X
Checked by X
Reviewed by X
Submitted by
Chief X Section

STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FE8 CHAIN-LINK SECURITY FENCE DETAILS FOR SENSORED FENCE

Plot Scale Plot 1:1
Design File FE8 LINK.dgn
Spec. No. DACA45
Contract No. DACA45
Date 02/01/12
Drawing Code STD 572-80-10
Sheet Reference Number 06

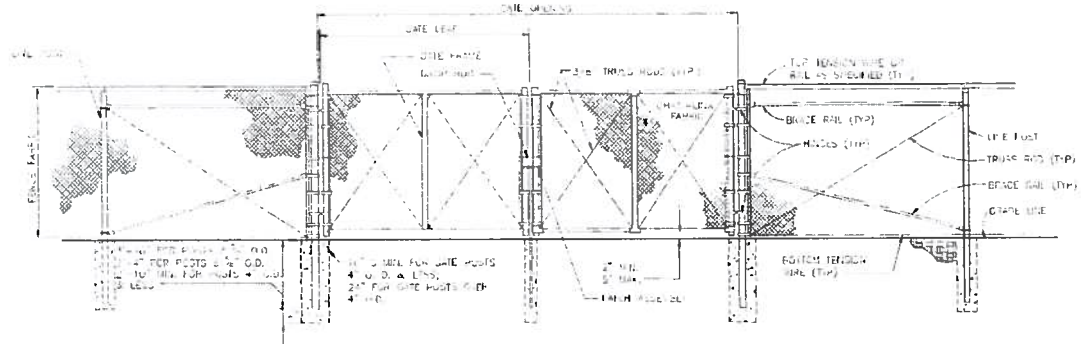
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

NOT TO SCALE

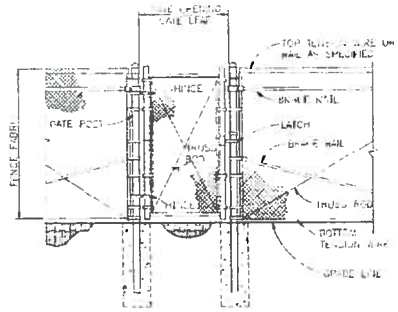
SHEET TITLE	ROUTE
SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63F



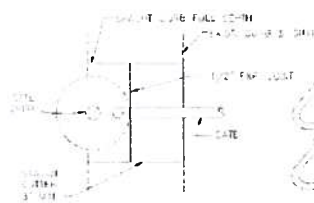
ELEVATION

DOUBLE SWING GATE (TYPE FE-5 FENCE)

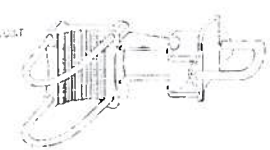


PERSONNEL GATE

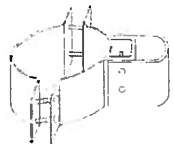
TYPE FE-5 FENCE



PLAN



OFFSET HINGE

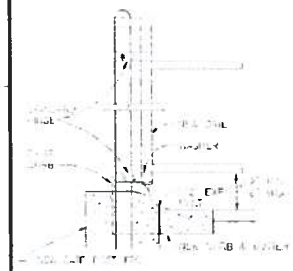


STANDARD HINGE

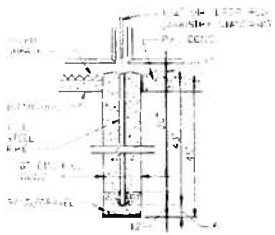
GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6' OR LESS	[illegible] OD [illegible] SQ
6' TO 12'	4.0" OD
12' TO 18'	[illegible]
MORE THAN 18'	8.625" OD

NOTES:

[illegible]



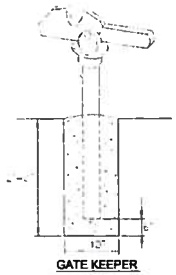
SECTION GATE POST



DROP ROD FOUNDATION

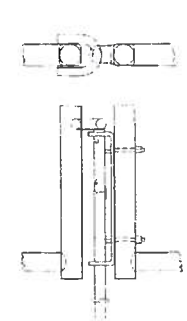
DETAIL AT CURB AND GUTTER

1/3 SCALE



GATE KEEPER

LATCH ASSEMBLY



DROP ROD ASSEMBLY

SWING GATE DETAILS

1/3 SCALE

$$ - THINK VALUE ENGINEERING - $$

Symbol	Revisions Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: X
Drawn by: X
Checked by: X
Reviewed by:
Submitted by:
Chief: X Section:

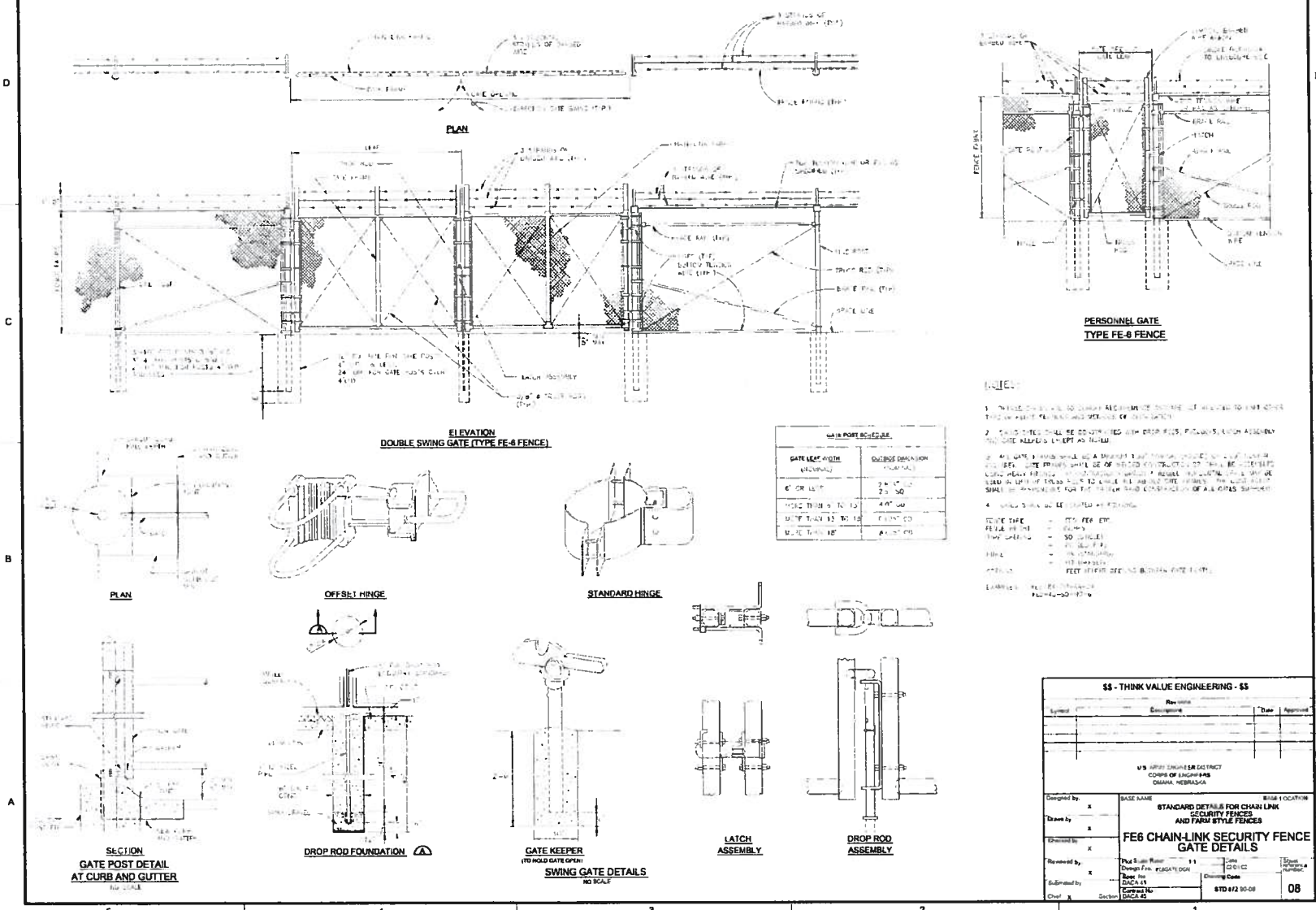
STANDARD DETAILS FOR CHAIN-LINK SECURITY FENCES AND FARM STYLE FENCES

FE5 CHAIN-LINK SECURITY FENCE GATE DETAILS

Plot Scale Ratio
Design File: FE5GATE.DGN
Spec. No. DACA 45
Contract No. DACA 45
Date: 10-01
Drawing Code: STD 872 90-07
Sheet reference number: 07

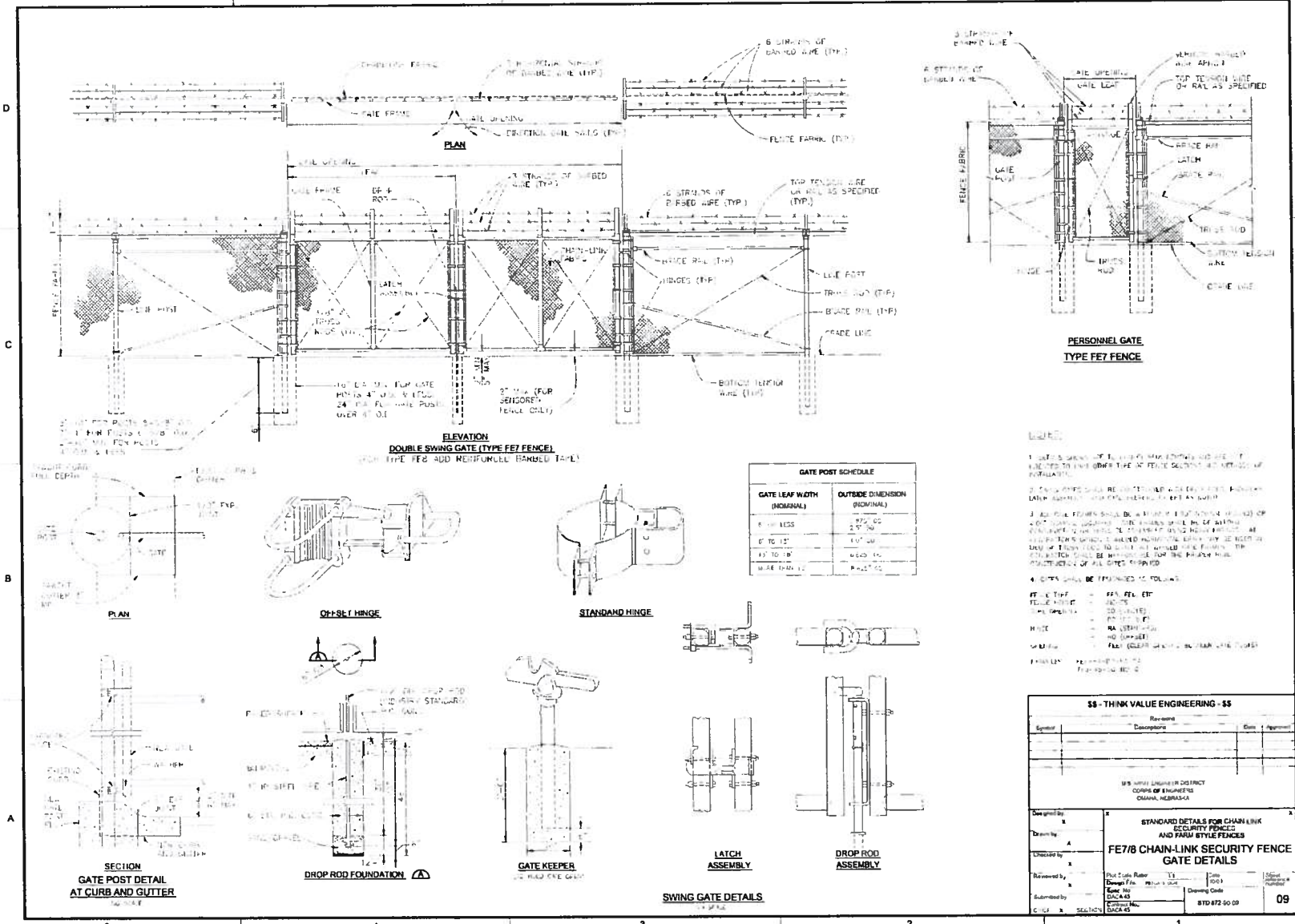
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63G



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:		GARVER, LLC		SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63H



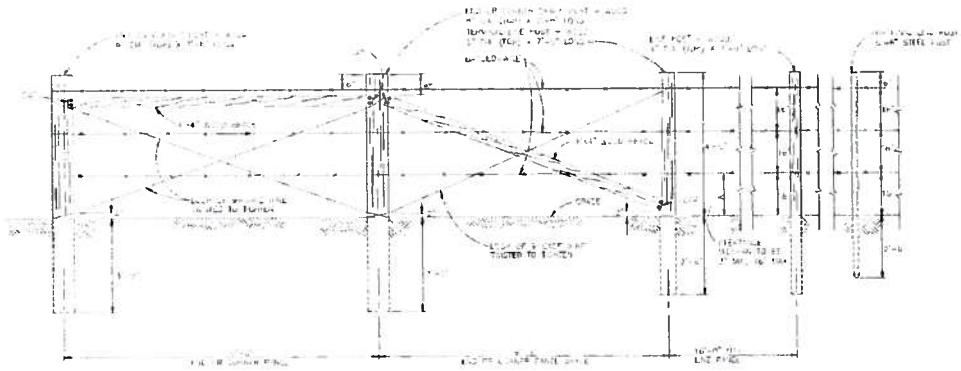
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL
DATE:	DATE:	DATE:	

ALABAMA DEPARTMENT OF TRANSPORTATION
GARVER, LLC

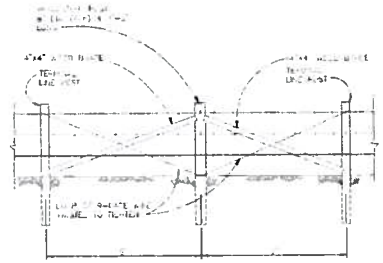
NOT TO SCALE

SHEET TITLE	ROUTE
SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	63-I

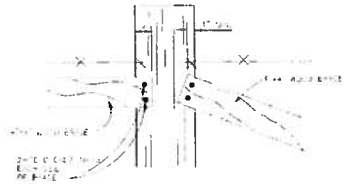


TYPICAL LAYOUT - 3 STRAND BARBED WIRE FENCE

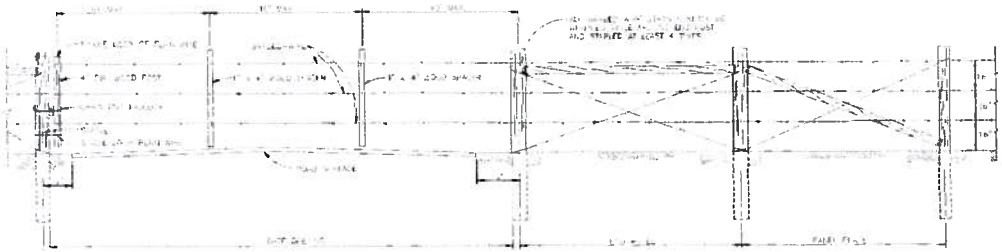


NOTE:

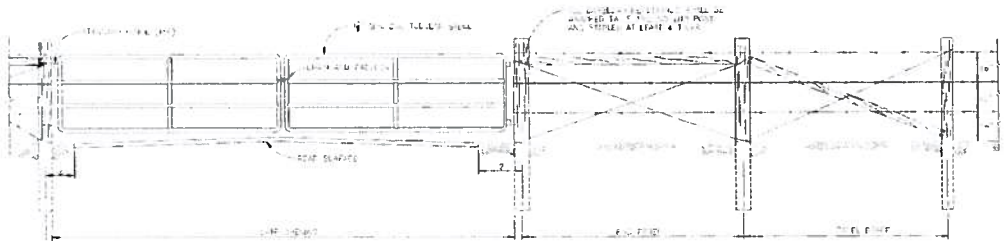
PULL POST BRACE PANEL DETAIL



DAP DETAIL



TYPICAL BARBED-WIRE DROP GATE DETAIL



TYPICAL PANEL GATE DETAIL

NOTES:

1. [illegible]
2. [illegible]
3. [illegible]

$$ - THINK VALUE ENGINEERING - $$

Revisions

Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by X
Drawn by X
Checked by X
Reviewed by X
Submitted by
Chief X Section

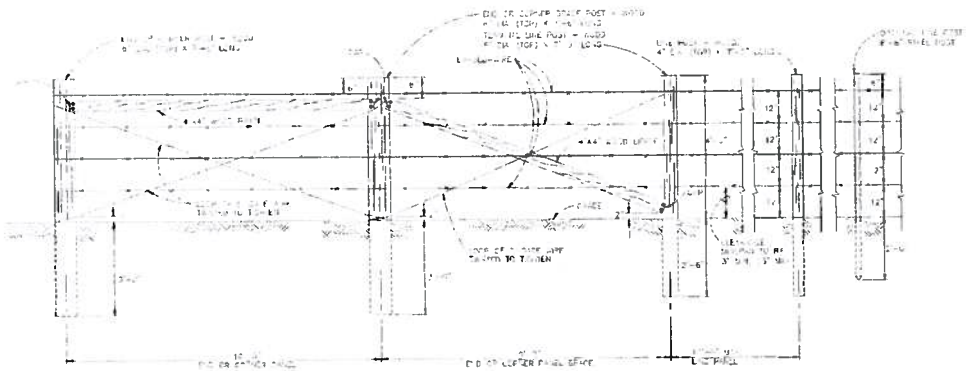
STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FARM STYLE 3-STRAND BARBED-WIRE FENCE DETAILS

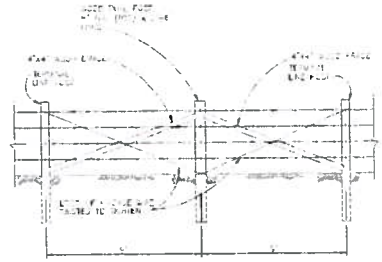
Full Scale Ratio 3:4
Design File CIVIL BWFENCE1
Spec. No. DACA 45
Contract No. DACA 45
Date 2011-2
Drawing Code STD 872 90-10
Sheet reference number X

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63J

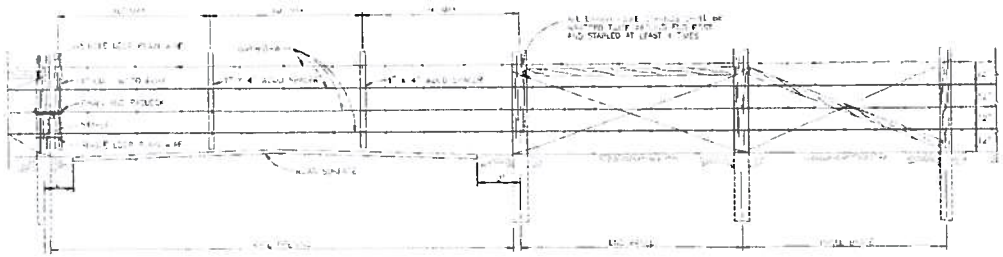


TYPICAL LAYOUT - 4 STRAND BARBED WIRE FENCE

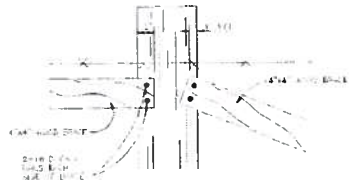


NOTE:

PULL POST BRACE PANEL DETAIL

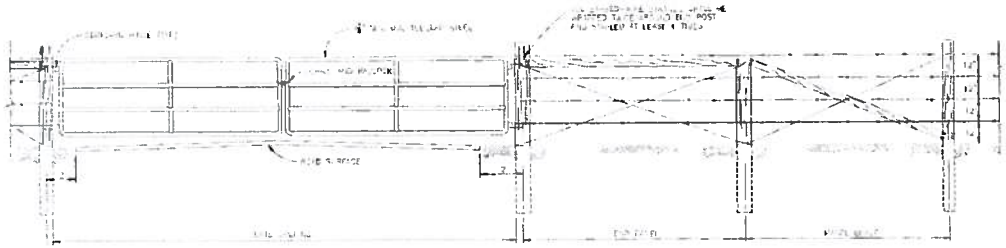


TYPICAL BARBED-WIRE DROP GATE DETAIL



DAP DETAIL

NOTES:



TYPICAL PANEL GATE DETAIL

$$ - THINK VALUE ENGINEERING - $$

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by X
Drawn by A B G
Checked by X
Reviewed by X
Submitted by
Chief X Section

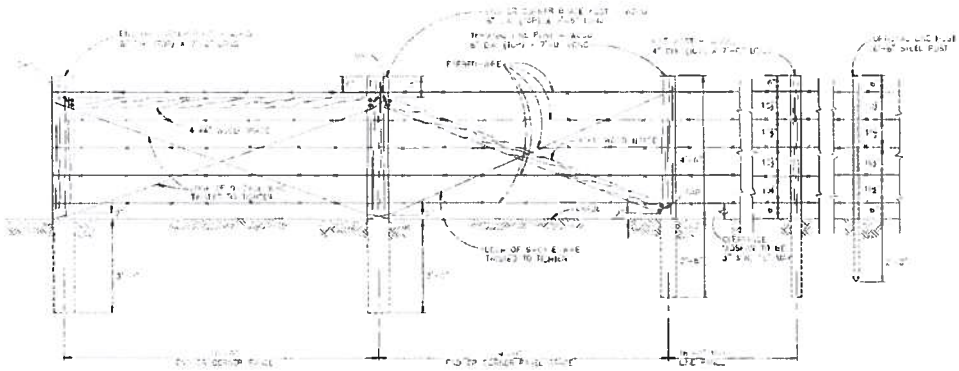
STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FARM STYLE 4-STRAND BARBED-WIRE FENCE DETAILS

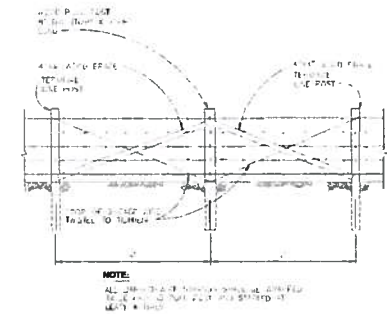
Plot Scale Ratio 3:4
Design File CIVIL BWFENCE2
Date 02 01 02
Sheet reference number X
Spec. No. DACA 45
Contract No. DACA 45
Drawing Code STD A/2 90-10

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63K

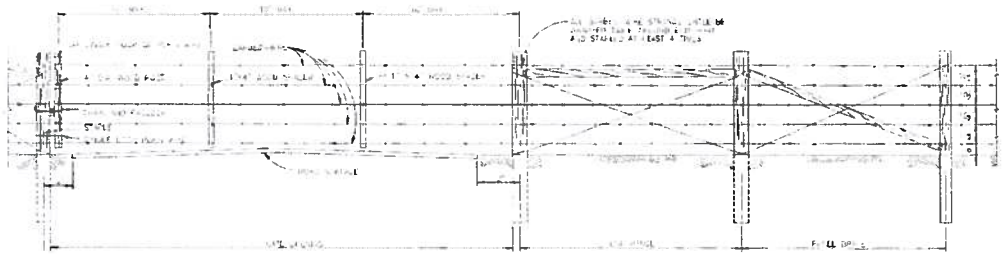


TYPICAL LAYOUT - 5 STRAND BARBED WIRE FENCE

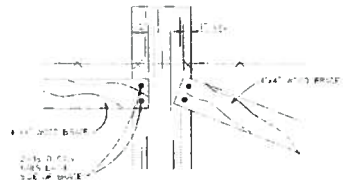


NOTE:

PULL POST BRACE PANEL DETAIL

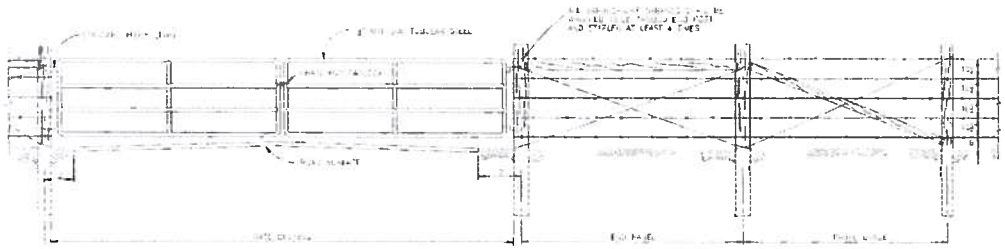


TYPICAL BARBED-WIRE DROP GATE DETAIL



DAP DETAIL

NOTES:



TYPICAL PANEL GATE DETAIL

$$ - THINK VALUE ENGINEERING - $$

Revisions

Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: X
Drawn by: X
Checked by: X
Reviewed by: X
Submitted by:
Chief: X

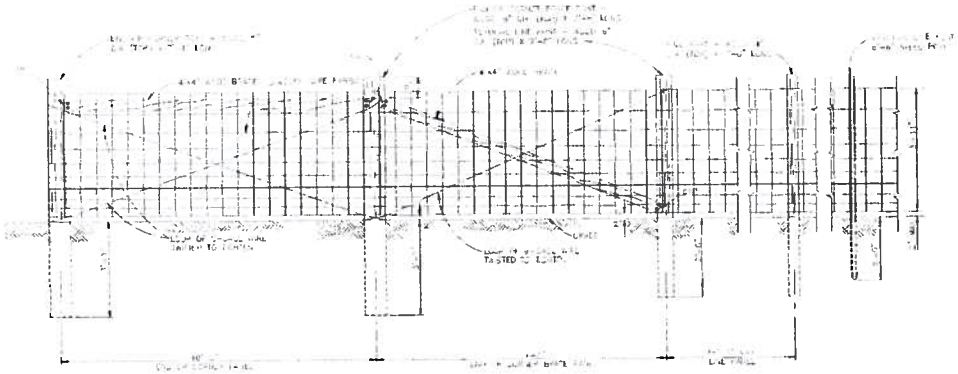
STANDARD DETAILS FOR CHAIN LINK SECURITY FENCES AND FARM STYLE FENCES

FARM STYLE 5-STRAND BARBED-WIRE FENCE DETAILS

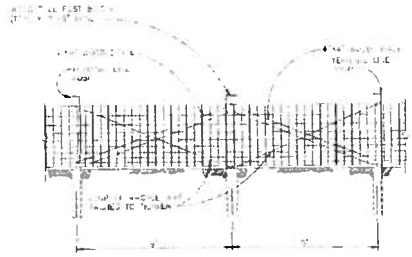
Plot Scale Ratio: 3:4
Design File: SWFENCES
Spec. No: DACA 45
Contract No: DACA 45
Date: 02/01/02
Drawing Code: STD 872 90-10
Sheet reference number: X

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

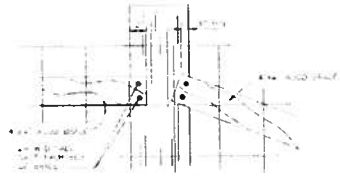
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(600)	2013	63L



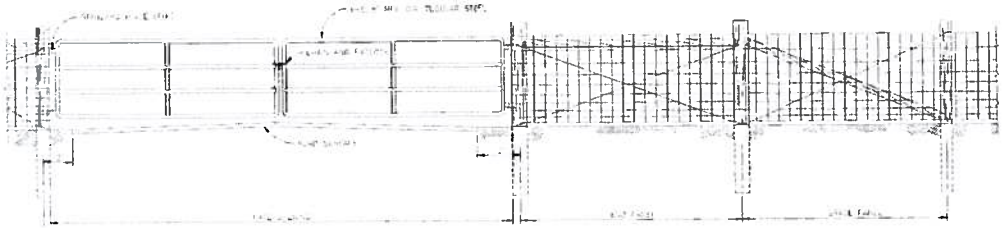
TYPICAL LAYOUT-WOVEN-WIRE FENCE



PULL POST BRACE PANEL DETAIL



DAP DETAIL



TYPICAL PANEL GATE DETAIL

$$ - THINK VALUE ENGINEERING - $$

Revisions

Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by x
Drawn by x
Checked by x
Reviewed by x
Submitted by x
Level x Section

STANDARD DETAILS FOR CHAIN-LINK SECURITY FENCES AND FARM STYLE FENCES

FARM STYLE
WOVEN WIRE FENCE DETAILS

Plot Scale Ratio 34
Design File WWFENCE1
Date 02/01/02
Sheet reference number
Spec. No. DACA 45
Contract No. DACA 45
Drawing Code STD872-50-10
13

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				SPECIAL PROJECT DETAIL	ZIERDT ROAD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
STPHV-8507(800)	2013	65

EARTHWORK SUMMARY

UNCLASSIFIED EXCAVATION:	TOPSOIL BENEATH FILL	0	CUBIC YARDS
	CUT	4000	
* TOTAL UNCLASSIFIED EXCAVATION:		4000	
TOTAL BORROW EXCAVATION:		2000	
TOTAL MUCK EXCAVATION:		0	CUBIC YARDS
TOTAL UNDERWATER EMBANKMENT:		0	CUBIC YARDS
TOPSOIL FROM STOCKPILES:	TOPSOIL ON CUT	0	CUBIC YARDS
	TOPSOIL BENEATH FILL	0	CUBIC YARDS
TOTAL TOPSOIL:		0	CUBIC YARDS
TOTAL TOPSOIL REQUIRED FOR PROJECT:		22843	CUBIC YARDS

PROJECT NOTES

GN-2 NOTES
148

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION GARVER, LLC	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:				EARTHWORK SUMMARY SHEET	ZIERDT ROAD