REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

SCHOEL

1001 22nd Street South
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205.323.6166

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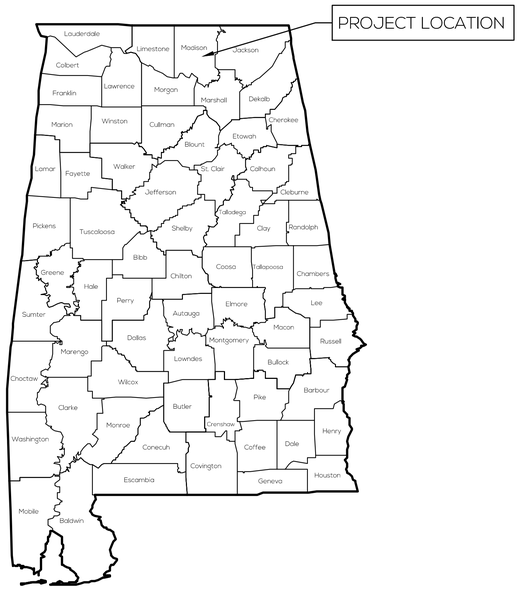
ALABAMA

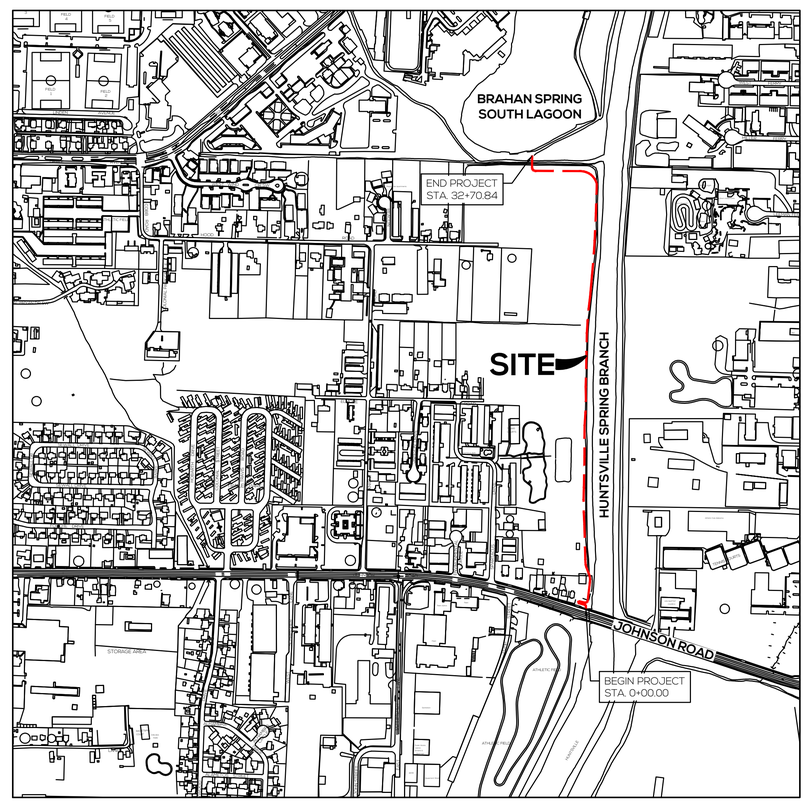
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER TAPHV-TA18(933)

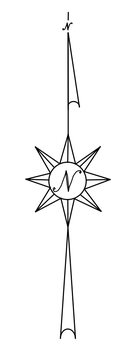
A GREENWAY STARTING AT JOHNSON ROAD SW AND RUNNING NORTH ALONG PINHOOK CREEK AND TURNING WEST ALONG MERRIMAC BRANCH WITH A PEDESTRIAN BRIDGE AT THE MIDPOINT OF THE WATERS EDGE

MADISON COUNTY





PROJECT LOCATION:
SECTION 14
TOWNSHIP 4 SOUTH
RANGE 1 WEST



These plans have been prepared to conform with the Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition.

Existing Bridge
N/A

Equations & Exceptions
N/A

	FEET	MILES
Total Stationing of Project	3270.84	0.619
Equations & Exceptions	0.00	
Net Length of Project	3270.84	0.619
Net Length of Bridges	67.00	0.013
Net Length of Roadways	3196.83	0.606

VICINITY MAP

SCALE: 1" = 500'

CITY OF HUNTSVILLE

POPULATION: 180,376

CENSUS YEAR: 2010

ALABAMA LICENSED No. 16845 PROFESSIONAL ENGINEER JAMES T. CUNNINGHAM

12-9-2019

INDEX TO SHEETS AND INDEX TO SPECIAL AND STANDARD DRAWINGS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1A

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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 2020, WHICH APPLY TO THIS PROJECT.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	INDEX TO SHEETS ALDOT SPECIAL AND STANDARD DRAWINGS
1B	PLANS LEGEND SHEET
1C	ABBREVIATIONS
1D	GEOMETRIC LAYOUT SHEET
1E	GEOMETRIC LAYOUT TABLES
2	TYPICAL SECTION
2A	PROJECT NOTES
3 - 3A	SUMMARY OF QUANTITIES
4 - 4C	DEMOLITION PLAN
5 - 5C	SITE DEVELOPMENT PLAN
6	STRIPING AND SIGNAGE PLAN
7 - 7A	PLAN AND PROFILE
8 - 8C	GRADING, DRAINAGE AND EROSION CONTROL PLAN
9	DRAINAGE SECTIONS
10	TRAFFIC CONTROL PLAN
11-11B	TRAFFIC CONTROL DETAILS
12	PROJECT CONSTRUCTION DETAILS
13	STRUCTURAL DETAILS
14	STRUCTURAL GENERAL NOTES AND SCHEDULES
15	STRUCTURAL BRIDGE DETAILS

INDEX NO.	DRAWING NO.	DESCRIPTION
53004	RPC-530 (SHEET 1 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (RCP AND CMP)
53005	RPC-530 (SHEET 2 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (CMP AND RCP)
53006	RPC-530 (SHEET 3 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (H.D.P.E. PIPE)
61909	HW-614-B (SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
61910	HW-614-B (SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
62163	JB-621-P (SHEET 1 OF 2)	DETAILS OF PRECAST ROUND JUNCTION BOX TYPES - 1P & 2P
62164	JB-621-P (SHEET 2 OF 2)	DETAILS OF RECTANGULAR PRECAST JUNCTION BOX TYPES - 1P & 2P
62111	I-621-C (SHEET 1 OF 2)	DETAILS OF INLET TYPE C FOR USE IN ROADSIDE DITCHES (18" - 30" PIPE)
62112	I-621-C (SHEET 2 OF 2)	DETAILS OF INLET TYPE C FOR USE IN ROADSIDE DITCHES (18" - 30" PIPE)
65901	ESC-509	DETAILS OF ROLLED AND HYDRAULIC EROSION CONTROL PRODUCT INSTALLATION
66501	ESC-100-1	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66502	ESC-100-2	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66505	ESC-200-1	TYPICAL TEMPORARY EROSION/SEDIMENT CONTROL APPLICATIONS
66506	ESC-200-2	DETAILS OF TEMPORARY SLOPE DRAIN, BERMS AND ENERGY DISSIPATOR
66507	ESC-200-3	DETAILS OF SEDIMENT BARRIER APPLICATIONS
66508	ESC-200-4	DETAILS OF SILT FENCE INSTALLATION
66509	ESC-200-5	DETAILS OF SEDIMENT RETENTION BARRIER
66512	ESC-300-1	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
66513	ESC-300-2	DETAILS OF HAY BALE DITCH CHECKS
66514	ESC-300-3	DETAILS OF SANDBAG DITCH CHECK
66515	ESC-300-4	DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS
66516	ESC-300-5	DETAILS OF SILT DIKE DITCH CHECKS
66517	ESC-300-6	DETAILS OF ROCK DITCH CHECKS
66518	ESC-300-7	DETAILS OF ROCK DITCH CHECKS WITH SUMP EXCAVATION
66519	ESC-300-8	DETAILS OF SILT FENCE DITCH CHECKS
66522	ESC-400-1	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
66523	ESC-400-2	INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES AND SAGS
66524	ESC-400-3	INLET PROTECTION DETAILS OF WATTLES
66525	ESC-400-4	INLET PROTECTION DETAILS OF SILT FENCE
66526	ESC-400-5	INLET PROTECTION DETAILS OF SAND BAGS
66529	ESC-501	FLOATING BASIN BOOM
66532	ESC-502	STABILIZED CONSTRUCTION ENTRANCE
66535	ESC-503	TEMPORARY DEWATERING STRUCTURES
66538	ESC-504	TEMPORARY CULVERT STREAM CROSSING
66541	ESC-505	TEMPORARY STREAM DIVERSION
66544	ESC-506-1	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
66545	ESC-506-2	SUSPENDED PIPE DIVERSION (UPSTREAM)
66548	ESC-507	TEMPORARY SEDIMENTATION BASIN
67201	ESC-508	FLOCCULANT USAGE GUIDE
70302	TCM-703 (SHEET 2 OF 2)	PAVEMENT LEGENDS AND MARKINGS DETAILS
71032	IHS-710-21	DETAILS OF LOCATION AND MOUNTING OF STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS
71035	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
71090	SHS-26	STANDARD HIGHWAY SIGNS
71093	SHS-29	STANDARD HIGHWAY SIGNS

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE **INDEX TO SHEETS AND INDEX TO SPECIAL AND STANDARD DRAWINGS**	ROUTE **HUNTSVILLE SPRING BRANCH GREENWAY**
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

PLANS LEGEND SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1B

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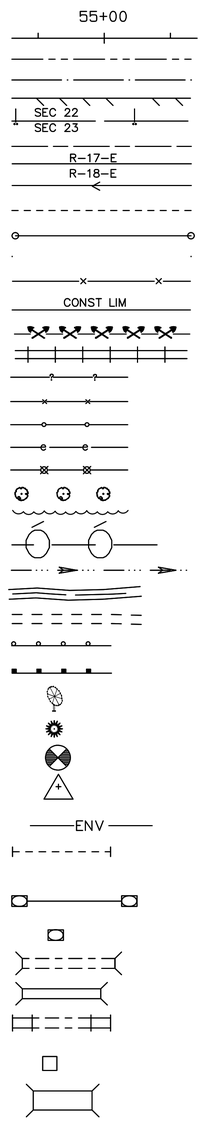
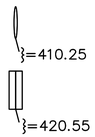
ROADWAY

CENTER LINE .....
STATE BOUNDARY LINE .....
COUNTY BOUNDARY LINE .....
CITY OR TOWN LIMITS .....
SECTION LINES .....
QUARTER–SECTION LINES .....
RANGE–TOWNSHIP LINES .....
PROPERTY LINES .....
PRESENT ROW .....
ACQUIRED ROW .....
DENIED ACCESS .....
REQUIRED FENCE .....
CONSTRUCTION LIMITS .....
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 .....
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) ....
BOX CULVERT (ELEVATION VIEW) .....

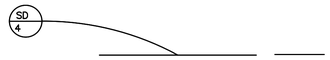


DRAINAGE STRUCTURE INDEX NUMBERS

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.

ROADWAY PIPE EXAMPLE

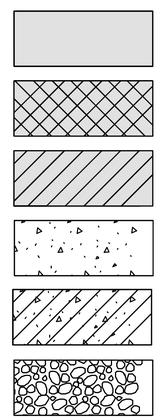
ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



SIDE DRAIN PIPE EXAMPLE

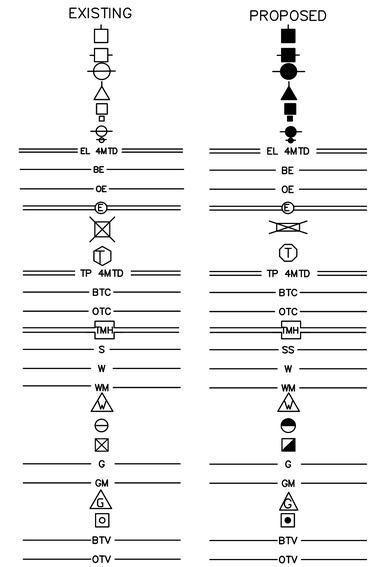
DIRECTION OF FLOW .....

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



UTILITIES

POWER POLE .....
LIGHT POLE .....
TELEPHONE POLE .....
ANCHOR .....
STUB (POWER) .....
STUB (TELEPHONE) .....
ELECTRIC DUCT .....
BURIED ELECTRIC CABLE .....
OVERHEAD ELECTRIC CABLE .....
ELECTRIC MANHOLE .....
TOWER .....
TELEPHONE PEDESTAL .....
TELEPHONE DUCT .....
BURIED TELEPHONE CABLE .....
OVERHEAD TELEPHONE CABLE .....
TELEPHONE MANHOLE .....
SANITARY SEWER .....
WATER LINE .....
WATER MAIN .....
WATER VALVE .....
FIRE HYDRANT .....
WATER METER .....
GAS LINE .....
GAS MAIN .....
GAS VALVE .....
GAS REGULATOR .....
BURIED CABLE TELEVISION.....
OVERHEAD CABLE TELEVISION.....



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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

NO SCALE

SHEET TITLE
PLANS LEGEND SHEET

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

ABBREVIATIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1C

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ABANDON(ED)....ABAN
ABUTMENT....ABUT
ACCELERATION....ACCL
ACQUIRED....ACQD
ACRE....AC
AHEAD....AH
ALABAMA....AL
ALABAMA DEPARTMENT OF TRANSPORTATION....ALDOT
ALTERNATE....ALT
APPROXIMATE(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
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
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....<
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
RETAIN(ING)....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....RDWY
ROLLED EROSION CONTROL PRODUCT....RECP
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
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

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE: ABBREVIATIONS	ROUTE: HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

GEOMETRIC LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1D

Civil Engineering | Land Surveying | Landscape Architecture
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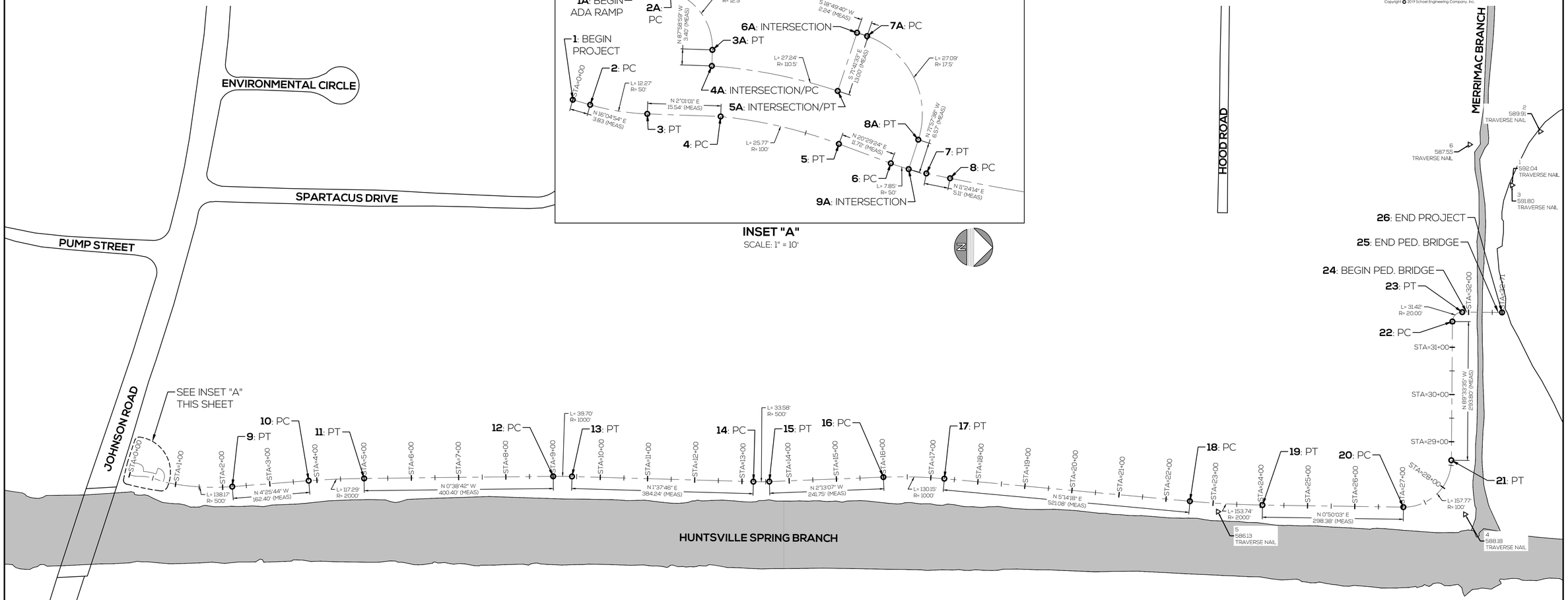

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 1-27-20	DATE: 1-27-20	DATE: 1-27-20	-

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

0 100' 200'

SHEET TITLE: GEOMETRIC LAYOUT SHEET

ROUTE: HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-13-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

1-27-20 DRAWN BY: L. WILLMOT 18-139 CDR.DWG

GEOMETRIC LAYOUT TABLES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	1E

Civil Engineering | Land Surveying | Landscape Architecture
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CONTROL POINTS TABLE

POINT	DESCRIPTION	LOCATION	ELEVATION
1	TRAVERSE NAIL	N: 1528306.26 E: 426018.41	592.04
2	TRAVERSE NAIL	N: 1528366.14 E: 425904.60	589.91
3	TRAVERSE NAIL	N: 1528306.23 E: 426018.45	591.80
4	TRAVERSE NAIL	N: 1528206.43 E: 426715.41	588.18
5	TRAVERSE NAIL	N: 1527683.57 E: 426709.71	586.13
6	TRAVERSE NAIL	N: 1528216.69 E: 425932.45	587.55

LAYOUT TABLE - ADA RAMP

NO.	POINT	STATION/OFFSET	LOCATION
1A	BEGIN ADA RAMP	STA. 0+04.58 OFFSET: -27.85 FT	N: 1525391.62 E: 426606.10
2A	PC ADA RAMP	STA. 0+20.00 OFFSET: -26.14 FT	N: 1525400.49 E: 426608.17
3A	PT ADA RAMP	STA. 0+29.40 OFFSET: -14.03 FT	N: 1525409.45 E: 426621.14
4A	INTERSECTION/ PC ADA RAMP	STA. 0+29.40 OFFSET: -10.63 FT	N: 1525409.34 E: 426624.54
5A	INTERSECTION/ PT ADA RAMP	STA. 0+53.65 OFFSET: -10.50 FT	N: 1525435.99 E: 426629.84
6A	INTERSECTION ADA RAMP	STA. 0+53.65 OFFSET: -23.50 FT	N: 1525440.07 E: 426617.50
7A	PC ADA RAMP	STA. 0+55.47 OFFSET: -23.50 FT	N: 1525442.19 E: 426618.22
8A	PT ADA RAMP	STA. 0+73.41 OFFSET: -6.56 FT	N: 1525453.04 E: 426640.15
9A	INTERSECTION ADA RAMP	STA. 0+73.12 OFFSET: 0 FT	N: 1525451.00 E: 426646.40

LAYOUT TABLE - GREENWAY

NO.	POINT	STATION/OFFSET	LOCATION
1	BEGIN PROJECT	STA. 0+00.00 OFFSET: 0 FT	N: 1525379.90 E: 426631.71
2	PC	STA. 0+03.83 OFFSET: 0 FT	N: 1525383.59 E: 426632.77
3	PT	STA. 0+16.11 OFFSET: 0 FT	N: 1525395.68 E: 426634.69
4	PC	STA. 0+31.65 OFFSET: 0 FT	N: 1525411.21 E: 426635.24
5	PT	STA. 0+57.41 OFFSET: 0 FT	N: 1525436.23 E: 426641.05
6	PC	STA. 0+69.13 OFFSET: 0 FT	N: 1525447.22 E: 426645.16
7	PT	STA. 0+76.98 OFFSET: 0 FT	N: 1525454.75 E: 426647.31
8	PC	STA. 0+82.09 OFFSET: 0 FT	N: 1525459.76 E: 426648.32
9	PT	STA. 2+20.26 OFFSET: 0 FT	N: 1525597.24 E: 426656.69
10	PC	STA. 3+82.66 OFFSET: 0 FT	N: 1525759.15 E: 426644.15
11	PT	STA. 4+99.95 OFFSET: 0 FT	N: 1525876.44 E: 426639.39
12	PC	STA. 9+00.35 OFFSET: 0 FT	N: 1526276.70 E: 426634.89
13	PT	STA. 9+40.04 OFFSET: 0 FT	N: 1526316.40 E: 426635.23
14	PC	STA. 13+24.29 OFFSET: 0 FT	N: 1526700.78 E: 426646.16
15	PT	STA. 13+57.87 OFFSET: 0 FT	N: 1526734.06 E: 426645.98
16	PC	STA. 15+99.62 OFFSET: 0 FT	N: 1526975.63 E: 426636.62
17	PT	STA. 17+29.77 OFFSET: 0 FT	N: 1527104.58 E: 426639.95
18	PC	STA. 22+50.85 OFFSET: 0 FT	N: 1527624.54 E: 426687.62
19	PT	STA. 24+04.58 OFFSET: 0 FT	N: 1527778.03 E: 426695.76
20	PC	STA. 27+02.96 OFFSET: 0 FT	N: 1528076.37 E: 426700.11
21	PT	STA. 28+60.73 OFFSET: 0 FT	N: 1528177.82 E: 426600.89
22	PC	STA. 31+54.53 OFFSET: 0 FT	N: 1528180.08 E: 426307.10
23	PT	STA. 31+85.94 OFFSET: 0 FT	N: 1528200.94 E: 426287.26
24	BEGIN PED. BRIDGE	STA. 31+96.83 OFFSET: 0 FT	N: 1528210.26 E: 426287.33
25	END PED. BRIDGE	STA. 32+62.84 OFFSET: 0 FT	N: 1528277.08 E: 426287.84
26	END PROJECT	STA. 32+70.84 OFFSET: 0 FT	N: 1528285.13 E: 426287.90

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

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

N

0 100' 200'

SHEET TITLE
GEOMETRIC LAYOUT TABLES

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

1-27-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

TYPICAL SECTION

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	2

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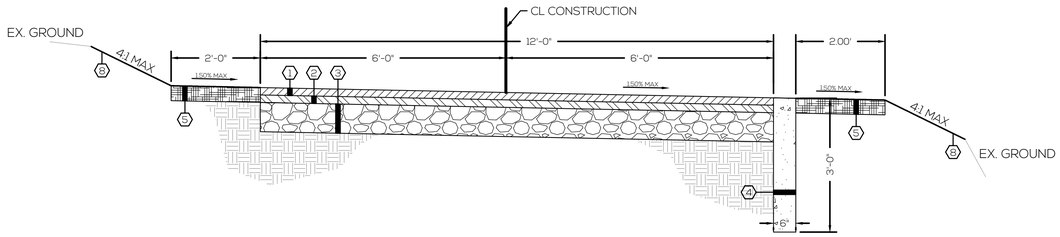
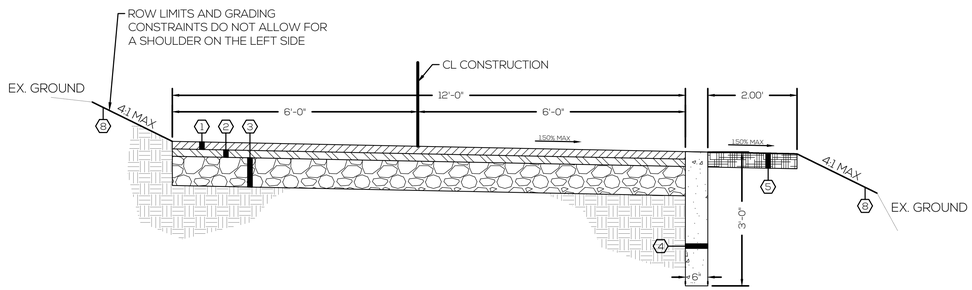


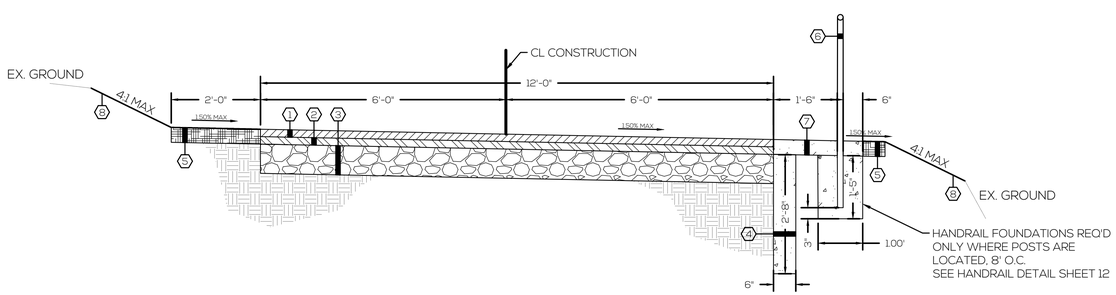
TYPICAL GREENWAY SECTION

STA. 0+00.00 - STA. 9+40.04
STA. 14+44.36 - STA. 27+30.82
STA. 31+80.37 - STA. 31+87.96
NOT TO SCALE



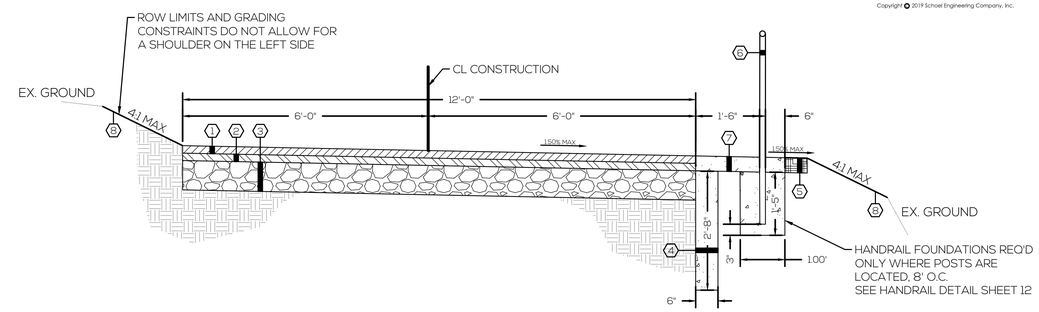
TYPICAL GREENWAY SECTION NO LEFT SHOULDER

STA. 9+40.04 - STA. 9+93.44
STA. 27+30.82 - STA. 31+80.37
NOT TO SCALE



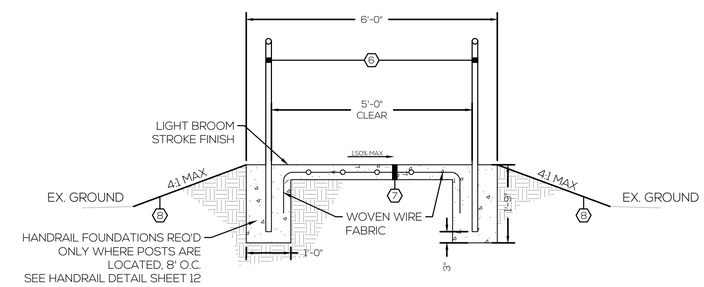
TYPICAL GREENWAY SECTION (W/ HANDRAIL)

STA. 13+18.38 - STA. 14+44.36
NOT TO SCALE



TYPICAL GREENWAY SECTION WITH HANDRAIL, NO LEFT SHOULDER

STA. 9+93.44 - STA. 13+18.38
NOT TO SCALE



TYPICAL CONCRETE SIDEWALK SECTION

NOT TO SCALE

REQUIRED MATERIALS LEGEND

LEGEND	ITEM	DESCRIPTION	NOTES
1	424A-336	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B - 110 LBS/SQYD	402
2	424B-635	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B - 330 LBS/SQYD	402
3	301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	402
4	620A-000	MINOR CONCRETE STRUCTURE - 6" CAST-IN-PLACE CONCRETE TURNDOWN	
5	650B-000	TOPSOIL FROM STOCKPILES - 4" THICKNESS, 2' WIDE SHOULDER	
6	517A-000	HANDRAIL WITH REQ'D FOUNDATION - REFERENCE SHEET 11 FOR DETAIL	
7	618A-000	CONCRETE SIDEWALK, 4" THICK	402, 420
8	210A-000	UNCLASSIFIED EXCAVATION	

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-138 CDB.DWG

PROJECT NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	2A

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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SERIES NOTE	NOTE
200	ALDOT, 2018, SHALL MEAN ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION.
201	ALL SUBGRADES SHALL BE CLEARED AND GRUBBED, AND THEN SCARIFIED TO A DEPTH OF 6". ROADBED PROCESSING IS WAIVED. THE TOP SIX INCHES OF SUBGRADE IS TO BE COMPACTED TO 100% AASHTO T-99. THE COST OF THIS WORK IS SUBSIDIARY TO THE OVERLYING LAYER.
202	IN ROCK EXCAVATION, A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROCK PRIOR TO PLACEMENT OF BASE MATERIAL.
206	ALL REINFORCING BARS SHALL BE SHOP BENT IN ACCORDANCE WITH THE TABLE ON THE PLANS. HEATING OF REINFORCING BARS TO BEND THEM OR STRAIGTEN THEM WILL NOT BE ALLOWED.
400	THE CONTRACTOR IS RESPONSIBLE FOR MAKING APPLICATION AND PAYING FOR ALL NECESSARY PERMITS.
401	THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER/SURVEYOR ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING UTILITIES SHOWN ON THE PLANS.
402	ALL PROPOSED IMPROVEMENTS ARE TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) SPECIFICATIONS.
403	TOPSOIL SHALL BE STRIPPED AND STOCK PILED DURING CONSTRUCTION. A MINIMUM OF 4 INCHES OF CONDITIONED AND AMENDED TOPSOIL SHALL BE RESPREAD OVER ALL AREAS SPECIFIED FOR SEEDING. GRADING SHALL CONFORM WITH THE GRADING PLAN.
404	SEEDING SHALL BE AS FOLLOWS: (A) "REBEL" OR "FALCON" FESCUE SEED ('TIL APRIL 15TH) WITH 95% GERMINATION. APPLICATION RATE SHALL BE 8 LBS PER 1,000 SQUARE FEET. (B) BERMUDA SEED (FROM APRIL 15TH TO AUGUST 15TH) WITH 95% GERMINATION. APPLICATION RATE SHALL BE 3 LBS PER 1,000 SQUARE FEET.
405	"2-4-D ROUNDUP" OR EQUIVALENT POST-EMERGENT HERBICIDE SHALL BE REQUIRED TO KILL EXISTING WEEDS PRIOR TO SEEDING. "TREFLAN," "DACTAL" OR EQUIVALENT PRE-EMERGENT HERBICIDE SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION. PAID FOR SUBSIDIARY OBLIGATION TO 652A-100 FOR SEEDING.
406	THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL INVESTIGATIONS AS REQUESTED TO ACQUAINT HIMSELF ADEQUATELY WITH THE SITE, INCLUDING SUBSURFACE SOIL CONDITIONS, FOR PREPARATION OF HIS/HER BID, AND FOR THE SUCCESSFUL EXECUTION OF THE WORK.
407	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF HIS/HER WORK. SUCH GRADING AS IS REQUIRED FOR THIS PURPOSE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM SUCH GRADING AND DRAINAGE AS IS NECESSARY TO PREVENT SURFACE RUNOFF FROM DAMAGING THE WORK.
409	ALL EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, UNLESS INDICATED OTHERWISE ON THE PLANS.
410	A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE PEDESTRIAN BRIDGE FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE SITE PREPARATION RECOMMENDATIONS SPECIFIED WITHIN THIS DOCUMENT, UNLESS MORE STRINGENT REQUIREMENTS ARE GIVEN ON THE PLANS OR WITHIN THE PROJECT SPECIFICATIONS.
411	INSTALL CONSTRUCTION ENTRANCES WITH ALDOT #1 STONE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND EXITING THE SITE. CONSTRUCTION ENTRANCES USED FOR THE REMOVAL OF ONSITE MATERIALS SHALL EXTEND TO THE LOADING AREA, BUT IN NO CASE SHALL ANY CONSTRUCTION ENTRANCE BE LESS THAN 50 FEET IN LENGTH OR 6 INCHES IN DEPTH. WIDTH SHALL NOT BE LESS THAN 15 FEET.
412	WASH DOWN CONSTRUCTION ENTRANCE AS NECESSARY TO LIMIT MUD AND DEBRIS BEING CARRIED ONTO ADJACENT ROADS. DRAINAGE FROM CONSTRUCTION ENTRANCE SHALL BE GRADED TO DRAIN TO SILT FENCES, OR OTHER EROSION CONTROL MEASURES.
413	REMOVE ALL EXISTING TREES AND UNDERBRUSH WITHIN 11' OF PROPOSED GREENWAY CENTERLINE OR TO ROW, WHICHEVER IS LESS.
414	CLEARING AND GRUBBING OF EXISTING TREES AND UNDERBRUSH IS ONLY ALLOWED FROM OCTOBER 15TH TO MARCH 31ST.
415	THE RIGHT OF WAY AND ENVIRONMENTAL CLEARED LIMITS ARE CONGRUENT THROUGHOUT THE PROJECT UNLESS OTHERWISE NOTED OR SHOWN ON THE PLANS.
416	GATE AND ALL FITTINGS SHALL BE PVC COATED AND MATCH FENCE. SEE DETAIL SHEET 12.
417	THERE SHALL BE NO NET FILLING AT ANY LOCATION, PERMANENT OR TEMPORARY, OF ANY KIND (INCLUDING BUT NOT LIMITED TO SOILS, POND CONSTRUCTION, PAVEMENT SECTIONS, AND STOCKPILED MATERIALS) NOR PLACEMENT OR CONSTRUCTION OF STRUCTURES OF ANY KIND (INCLUDING BUT NOT LIMITED TO TEMPORARY CONSTRUCTION TRAILERS AND SANITARY & STORM SEWER STRUCTURES) ABOVE EXISTING GRADE IN THE FLOODWAY DURING THE COURSE NOR AS A RESULT OF THIS OR ANY OTHER DEVELOPMENT. AFTER CONSTRUCTION HAS COMPLETED, AN ASBUILT SURVEY IS REQUIRED SHOWING FINISHED GRADES AND CONTOURS. THE CITY WILL REVIEW THE SURVEY TO ENSURE COMPLIANCE OF THE NO NET FILL REQUIREMENT AND THE CONTRACTOR IS REQUIRED TO CORRECT, AT HIS OR HER EXPENSE, IN THE EVENT THAT GRADES ARE INCREASED AT ANY POINT WITHIN THE FLOODWAY.
418	THE BRIDGE DECK, ABUTMENTS, EXCAVATION, BACKFILL, UNDERDRAIN, AND RIP-RAP ASSOCIATED WITH THE PEDESTRIAN BRIDGE ARE SUBSIDIARY TO PAY ITEM 516D-000 (PEDESTRIAN BRIDGE).
419	COLLAPSIBLE BOLLARDS REQUIRED AT BEGINNING AND END OF GREENWAY TO HAVE 4" MAX. HEIGHT WHEN IN COLLAPSED POSITION. TRAFFICGUARD DWG. NO. HRPA2-1 OR EQUIVALENT.
420	THE HANDRAIL FOOTINGS ARE SUBSIDIARY TO PAY ITEM 517A-000 (HANDRAIL).
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.
701	THE CONTRACTOR MAY BE REQUIRED TO FURNISH ADDITIONAL WARNING SIGNS AND FLAGGERS NOT SHOWN ON THE TRAFFIC CONTROL PLAN WHENEVER HIS/HER FORCES ARE WORKING ON, NEAR, OR CROSSING ANY CONNECTING ROADS OR STREETS. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.
702	ANY SIGNING OR OTHER TRAFFIC CONTROL DEVICES NOT SHOWN ON THIS TCP BUT DEEMED NECESSARY BY THE ENGINEER SHALL BE FURNISHED BY THE CONTRACTOR AND PAID FOR UNDER THE APPROPRIATE PAY ITEM.
703	WHERE THE LOCATION OF A REQUIRED SIGN FALLS ON 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 RELOCATE, COVER, OR REMOVE 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 THE PROPERTY OF THE COUNTY. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.
705	ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS AUTHORIZED BY THE ENGINEER.
706	FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATIONS AT ALL TIMES. FLAGGER STATION LOCATIONS MAY BE VARIED FROM THOSE SHOWN BASED ON THE ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.
707	ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.
708	CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWINGS IHS-710-21 AND IHS-710-23.
709	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 APPROVED 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 PROJECT.
710	THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS/HER WORK. SIGNS SHALL BE PLACED IN ORDER IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.
711	THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.
712	THE W20-5 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	ALL CONTRACTOR'S EMPLOYEES PERSONAL VEHICLES AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION SHALL BE PARKED A MINIMUM OF 30 FEET FROM THE TRAVELED WAY DURING WORKING HOURS, SO AS NOT TO CREATE A HAZARD. EQUIPMENT AND VEHICLES MAY BE PARKED CLOSER IF OUTSIDE THE CLEARZONE AND WITH PERMISSION OF THE ENGINEER.
714	LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS. THE LATERAL PLACEMENT OF THE FLAGGER MAY BE VARIED FROM THAT SHOWN.
715	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 IN THE SAME LOCATIONS, WHEN ALL DEVICES ARE REMOVED AT NIGHT, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS.
716	ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPE XI FLOURESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.
717	CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
718	TAPER SHOULD BE FORMED BY PLACING ONE CONE FOR EACH FOOT OF LANE WIDTH.
719	THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHOULD BE APPROPRIATELY EQUAL TO TWO TO FOUR TIMES THE SPEED LIMIT. FOR LOW SPEED ROADS AND STREETS, A CLOSER SPACING SHOULD BE USED.
720	IF THE CONTRACTOR CHOOSES TO SPLICE THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.
721	A TEMPORARY LANE CLOSURE SHALL NOT BE ALLOWED DURING THE FOLLOWING PERIODS UNLESS OTHERWISE DIRECTED BY THE ENGINEER: - FOR NEW YEARS DAY: FROM 11:59 PM DECEMBER 31ST THROUGH 11:59 PM JANUARY 1ST - FOR NATIONAL MEMORIAL DAY AND LABOR DAY: FROM 12:00 NOON THE FRIDAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY - FOR INDEPENDENCE DAY (FOURTH OF JULY): FROM 12:00 NOON JULY 4TH THROUGH 11:59 PM JULY 4TH - FOR THANKSGIVING DAY: FROM 12:00 NOON THE WEDNESDAY BEFORE THANKSGIVING DAY THROUGH 11:59 PM THE SUNDAY FOLLOWING THANKSGIVING DAY. - FOR CHRISTMAS DAY: FROM 11:59 PM DECEMBER 24TH THROUGH 11:59 PM DECEMBER 25TH THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND LOCAL GOVERNMENTS ON TRAFFIC AND/OR WORK RESTRICTIONS FOR LOCAL HOLIDAYS OR EVENTS.
800	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT WHETHER SHOWN ON THE PLANS OR NOT. THE LOCATION OF ANY REQUIRED GUARDRAIL, SIGNS, FOOTINGS OF ANY NATURE AND/OR ELECTRICAL/COMMUNICATIONS CONDUITS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICTS WITH THESE UTILITIES. UTILITY LINE LOCATE REQUESTS WILL BE LIMITED TO INCREMENTS NOT TO EXCEED 2,000 LINEAR FEET PER WORKING DAY OPERATIONS. MULTIPLE LOCATE REQUESTS WILL BE REQUIRED FOR PROJECTS GREATER THAN 2,000 LINEAR FEET IN LENGTH.
900	A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE IS REQUIRED FOR THIS PROJECT. CITY OF HUNTSVILLE WILL BE THE NPDES PERMITEE AND WILL OBTAIN THE PERMIT. A NOTICE OF INTENT FOR NPDES COVERAGE HAS BEEN FILED WITH ADEM. A COPY OF THE NOTICE OF INTENT IS AVAILABLE FROM THE CITY.

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER M. CARGILE

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE PROJECT NOTES	ROUTE HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

SUMMARY OF QUANTITIES

PROJECT NO. TAPHV-TA18(933)
MADISON COUNTY

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	3

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	PROJECT NOTES
201A-002	CLEARING AND GRUBBING (MAX. ALLOWABLE BID $4,300/AC.)	1	LS	413, 414
206C-017	REMOVING CONCRETE PAD	41	SQYD	
206C-023	REMOVING RIPRAP	230	SQYD	
206D-000	REMOVING PIPE	29	LF	
206D-011	REMOVING FENCE	32	LF	
210A-000	UNCLASSIFIED EXCAVATION	1511	CUYD	
214A-000	STRUCTURE EXCAVATION	183	CUYD	
214B-001	FOUNDATION BACKFILL, COMMERCIAL	38	CUYD	418
301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED 5" COMPACTED THICKNESS	4,251	SQYD	402
424A-336	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	234	TON	402
424B-635	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	702	TON	402
430B-050	AGGREGATE SURFACING (ALDOT #1)	79	TON	411
516D-000	PEDESTRIAN BRIDGE	1	LS	410, 418
517A-000	HANDRAIL	647	LF	
530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	78	LF	
530A-004	36" ROADWAY PIPE (CLASS 3 R.C.)	55	LF	
600A-000	MOBILIZATION	1	LS	
618A-000	CONCRETE SIDEWALK, 4" THICK	206	SQYD	402, 420
619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	1	Each	
619A-005	36" ROADWAY PIPE END TREATMENT, CLASS 1	2	Each	
620A-000	MINOR STRUCTURE CONCRETE	176	CUYD	
621A-011	JUNCTION BOXES, TYPE 1 OR 1P	1	Each	
621B-011	JUNCTION BOX UNITS, TYPE 1 OR 1P	1	Each	
621C-027	INLETS, TYPE C	1	Each	
634A-014	INDUSTRIAL FENCE, 4 FEET HIGHT (P.V.C. COATED)	110	LF	
634D-007	GATE, 20 FEET WIDE, COMPLETE WITH FITTINGS (WITHOUT BARBED WIRE)	1	EA	416
650B-000	TOPSOIL FROM STOCKPILES	247	CUYD	
652A-100	SEEDING	2	ACRE	404, 405
656A-010	MULCHING	2	ACRE	
665J-002	SILT FENCE	3225	LF	
665O-001	SILT FENCE REMOVAL	3225	LF	
665P-005	INLET PROTECTION, STAGE 3 OR 4	2	EA	
669B-010	SPOT POST-EMERGENT HERBICIDE TREATMENT	88	GAL	405
680A-001	GEOMETRIC CONTROLS	1	LS	
701A-004	SOLID WHITE, CLASS 1, TYPE A TRAFFIC STRIPE	1	Mile	
703H-000	SPECIALTY TRAFFIC CONTROL MARKINGS	39	SQFT	
710A-091	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.125" THICKNESS (TYPE III BACKGROUND)	35	SQFT	
710B-001	ROADWAY SIGN POST (#3 "U" CHANNEL GALVANIZED STEEL)	23	LF	
710B-021	ROADWAY SIGN POST (2", 14 GA SQUARE TUBULAR STEEL)	28	LF	
740B-000	CONSTRUCTION SIGNS	48	SQFT	704, 707, 708, 712,715, 716
740D-000	CHANNELIZING DRUMS	14	EA	709
770L-005	BOLLARD, COMPLETE IN PLACE	2	EA	419

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE SUMMARY OF QUANTITIES	ROUTE HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

SUMMARY OF QUANTITIES

PROJECT NO. TAPHV-TA18(933)
MADISON COUNTY

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	3A

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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REQUIRED DEMOLITION

REQ'D DEMOLITION	STATION		SIDE	QUANTITY	UNIT	ITEM NO.
REMOVING FENCE	2+09.04		LEFT-RIGHT	32	LF	206D-011
REMOVING PIPE	22+78.42		LEFT-RIGHT	29	LF	206D-000
	FROM	TO				
REMOVING RIPRAP	0+81.56	2+07.01	LEFT-RIGHT	230	SQYD	206C-023
REMOVING CONCRETE PAD	0+87.75	0+95.31	RIGHT	7	SQYD	206C-017
	1+68.87	2+16.83	RIGHT	34	SQYD	

REQUIRED SITE IMPROVEMENTS

REQ'D IMPROVEMENTS	STATION		SIDE	QUANTITY	UNIT	ITEM NO.
BOLLARD, COMPLETE IN PLACE	0+03.49		CENTER	2	EA	770L-005
	32+62.83		CENTER			
	FROM	TO				
CONCRETE SIDEWALK, 4" THICK	0+04.58	0+76.80	LEFT	66	SQYD	618A-000
	31+87.96	31+95.96	CENTER	20		
	32+62.84	32+70.84		20		
MINOR STRUCTURE CONCRETE	0+00.00	31+87.93	RIGHT	178	CUYD	620A-000
INDUSTRIAL FENCE, 4 FEET HIGH (P.V.C. COATED)	0+78.99	2+09.08	LEFT	110	LF	634A-014
GATE, 20 FEET WIDE, COMPLETE WITH FITTINGS (WITHOUT BARBED WIRE)	0+90.48	1+10.81	LEFT	1	EA	634D-007
HANDRAIL	0+05.45	0+76.34	LEFT	195	LF	517A-000
	9+93.44	14+44.36	RIGHT	452		
PEDESTRIAN BRIDGE	31+95.96	32+62.84	CENTER	1	LS	516D-000

REQUIRED DRAINAGE STRUCTURES

DRAINAGE SHEET	INDEX NO.	REQ'D STORM	STATION		SIDE	QUANTITY	UNIT	ITEM NO.	DWG
8	3	18" ROADWAY PIPE END TREATMENT, CLASS 1	1+92.72		RIGHT	1	EA	619A-002	HW-614-B
8B	4	36" ROADWAY PIPE END TREATMENT, CLASS 1	22+79.58		LEFT	2	EA	619A-005	
8B	5		22+38.69		RIGHT				
8	1	INLETS, TYPE C	2+35.52		LEFT	1	EA	621C-027	I-621-C
8	2	JUNCTION BOXES, TYPE 1 OR 1P	2+32.35		LEFT	1	EA	621A-011	JB-621-P
8	2	JUNCTION BOX UNITS, TYPE 1 OR 1P	2+32.35		LEFT	1	EA	621B-011	
			FROM	TO					
8	1-2	18" ROADWAY PIPE (CLASS 3 R.C.)	2+35.52	2+32.35	LEFT	78	LF	530A-001	RPC-530
8	2-3		2+32.35	1+92.72	LEFT-RIGHT				
8B	4-5	36" ROADWAY PIPE (CLASS 3 R.C.)	22+38.69	22+79.58	LEFT-RIGHT	55	LF	530A-004	RPC-530
8	1, 2, 3, 4, 5	STRUCTURE EXCAVATION	1+88.37	2+38.83	LEFT-RIGHT	89	CUYD	214A-000	SHEETS 8 & 8B
8B			22+34.11	22+83.93		94			
8	1-2, 2-3, 4-5	FOUNDATION BACKFILL, LOCAL	1+88.37	2+38.83	LEFT-RIGHT	22	CUYD	214B-000	
8B			22+34.11	22+83.93		16			

REQUIRED EROSION AND SEDIMENT CONTROL

REQ'D EROSION CONTROL	STATION		SIDE	QUANTITY	UNIT	ITEM NO.
INLET PROTECTION, STAGE 3 OR 4	2+35.52		LEFT	2	EA	665P-005
	22+79.58		LEFT			
	FROM	TO				
SILT FENCE	0+00.00	31+95.96	RIGHT	3225	LF	665J-002

REQUIRED PERMANENT ROADWAY SIGNS

REQ'D SIGNS	STATION	SIDE	QUANTITY	UNIT	ITEM NO.	DWG
CLASS 4, ALUMINUM FLAT SIGN PANELS 0.125" THICKNESS (TYPE III BACKGROUND)	0+17.02	LEFT	35	SQFT	710A-091	SHEET 6
	0+17.14	LEFT				
	0+31.32	RIGHT				
	0+67.90	LEFT				
ROADWAY SIGN POST (#3 "U" CHANNEL GALVANIZED STEEL)	0+17.02	LEFT	23	LF	710B-001	IHS-710-23
	0+31.32	RIGHT				
	0+67.90	LEFT				
ROADWAY SIGN POST (2", 14 GA SQUARE TUBULAR STEEL)	0+14.01	LEFT	28	LF	710B-021	IHS-710-21
	0+20.28	LEFT				

REQUIRED PERMANENT STRIPING AND MARKINGS

REQ'D STRIPING/MARKING	STATION		SIDE	QUANTITY	UNIT	ITEM NO.	DWG
	FROM	TO					
SOLID WHITE, CLASS 1, TYPE A TRAFFIC STRIPE	0+00.00	31+87.96	LEFT	0.60	MILE	701A-004	TCM-703
SPECIALTY TRAFFIC CONTROL MARKINGS	0+9.00	0+13.00	LEFT	39	SQFT	703H-000	SHEET 6
	0+8.00	0+14.00	RIGHT				
	1+9.00	1+13.00	LEFT				
	1+8.00	1+14.00	RIGHT				
	2+9.00	2+13.00	LEFT				
	2+8.00	2+14.00	RIGHT				
	3+9.00	3+13.00	LEFT				
	3+8.00	3+14.00	RIGHT				

REQUIRED TRAFFIC CONTROL

REQ'D TRAFFIC CONTROL	SIGN SIZE	QUANTITY	UNIT	ITEM NO.	DWG
W4-2 CONSTRUCTION SIGN	48" X 48"	16	SQFT	740B-000	SHS-26
W20-5 CONSTRUCTION SIGN		32			SHS-29
CHANNELIZING DRUMS		14	EA	740D-000	SHEET 10

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

DEMOLITION PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	4

Civil Engineering | Land Surveying | Landscape Architecture
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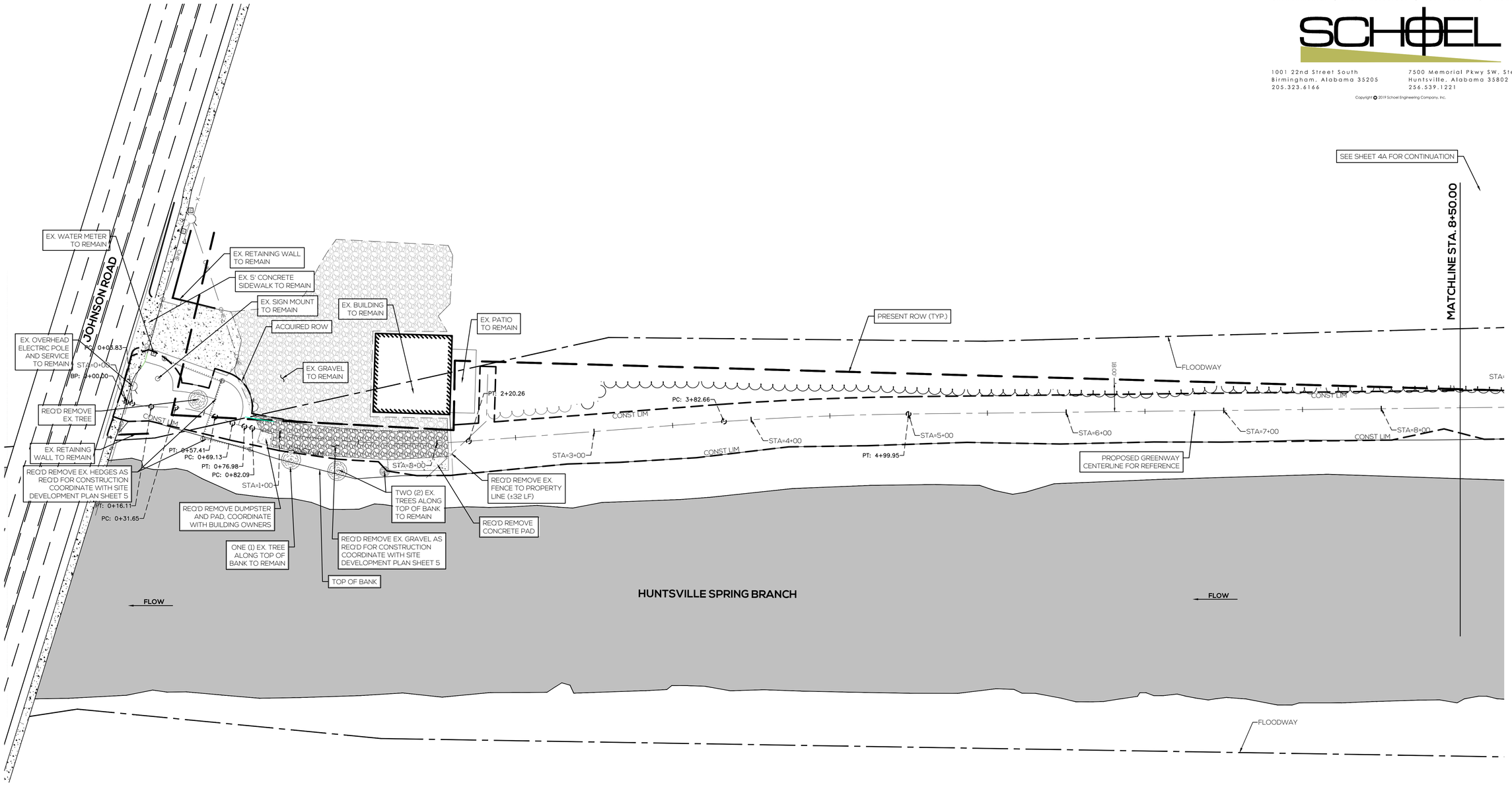

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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

N

0 30' 60'

SHEET TITLE
DEMOLITION PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE 3-19-20

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

DEMOLITION PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	4A

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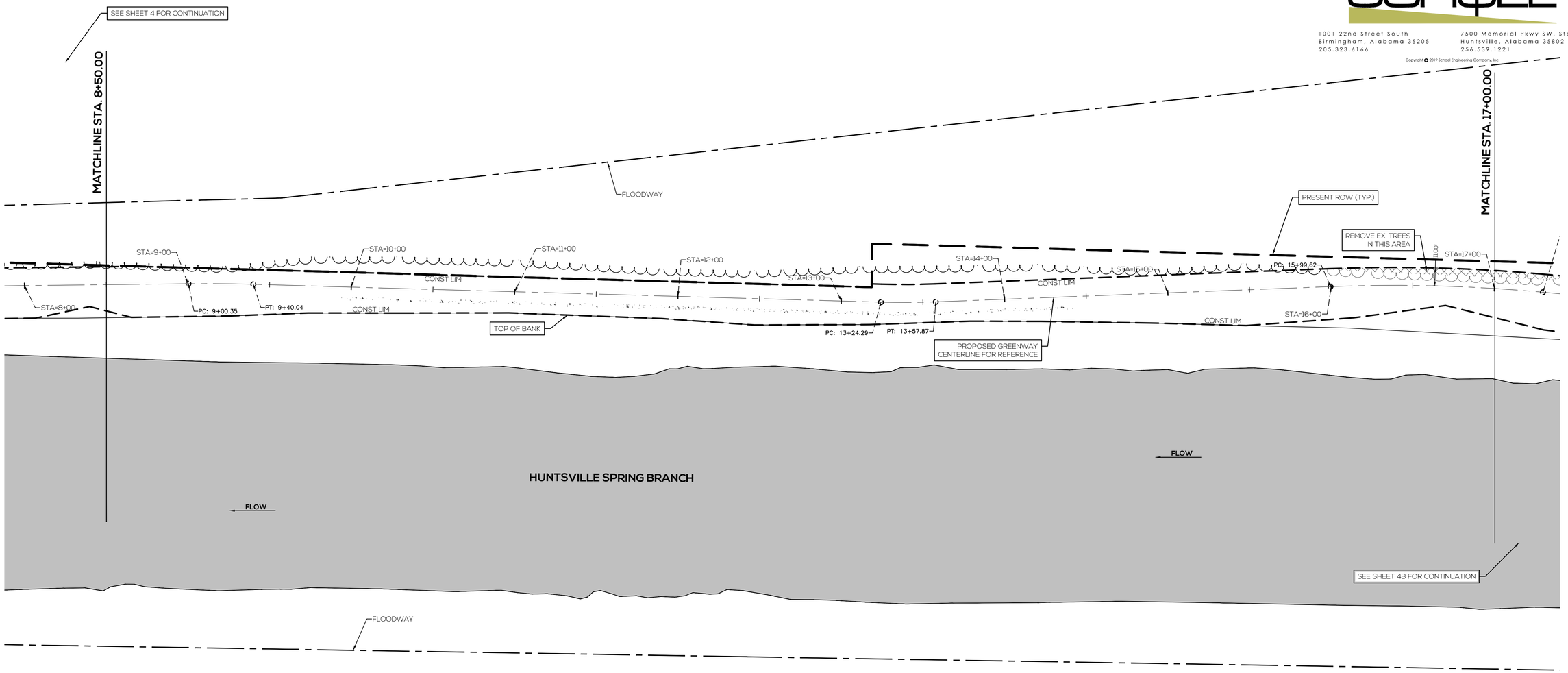

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

0 30' 60'

SHEET TITLE
DEMOLITION PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDR.DWG

DEMOLITION PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	4B

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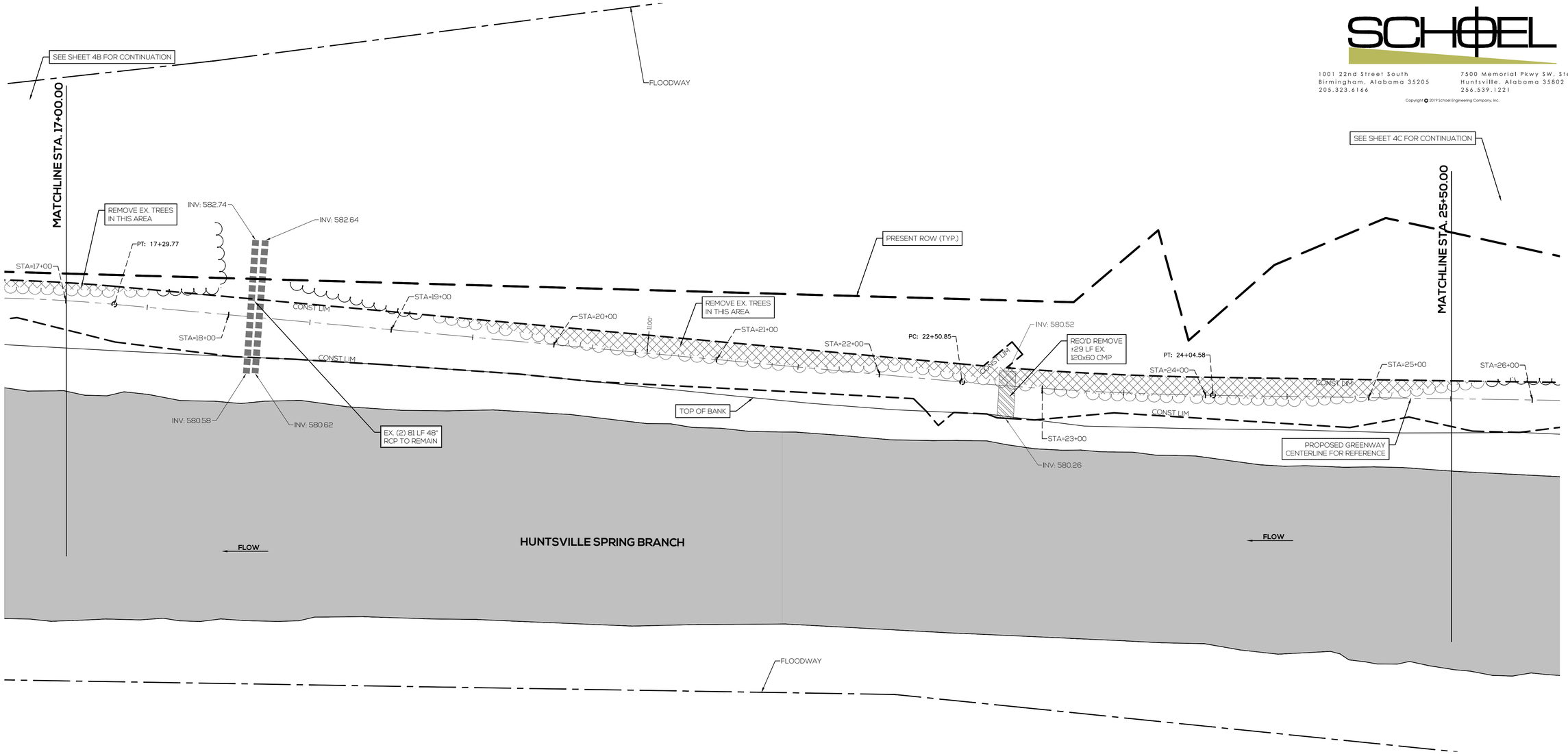

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

N

0 30' 60'

SHEET TITLE
DEMOLITION PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-24-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

DEMOLITION PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	4C

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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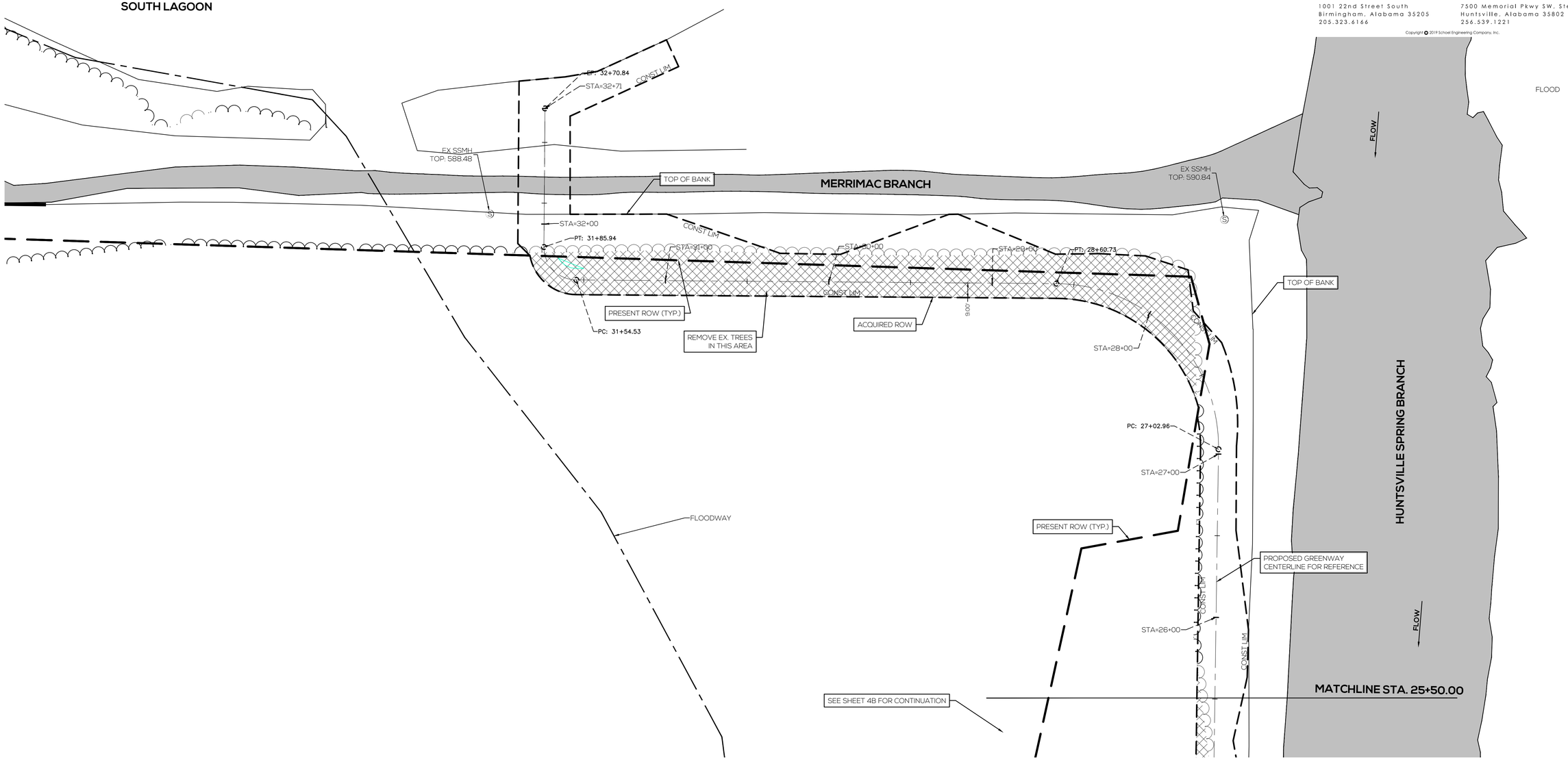

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

N

0 30' 60'

SHEET TITLE
DEMOLITION PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

SITE DEVELOPMENT PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	5

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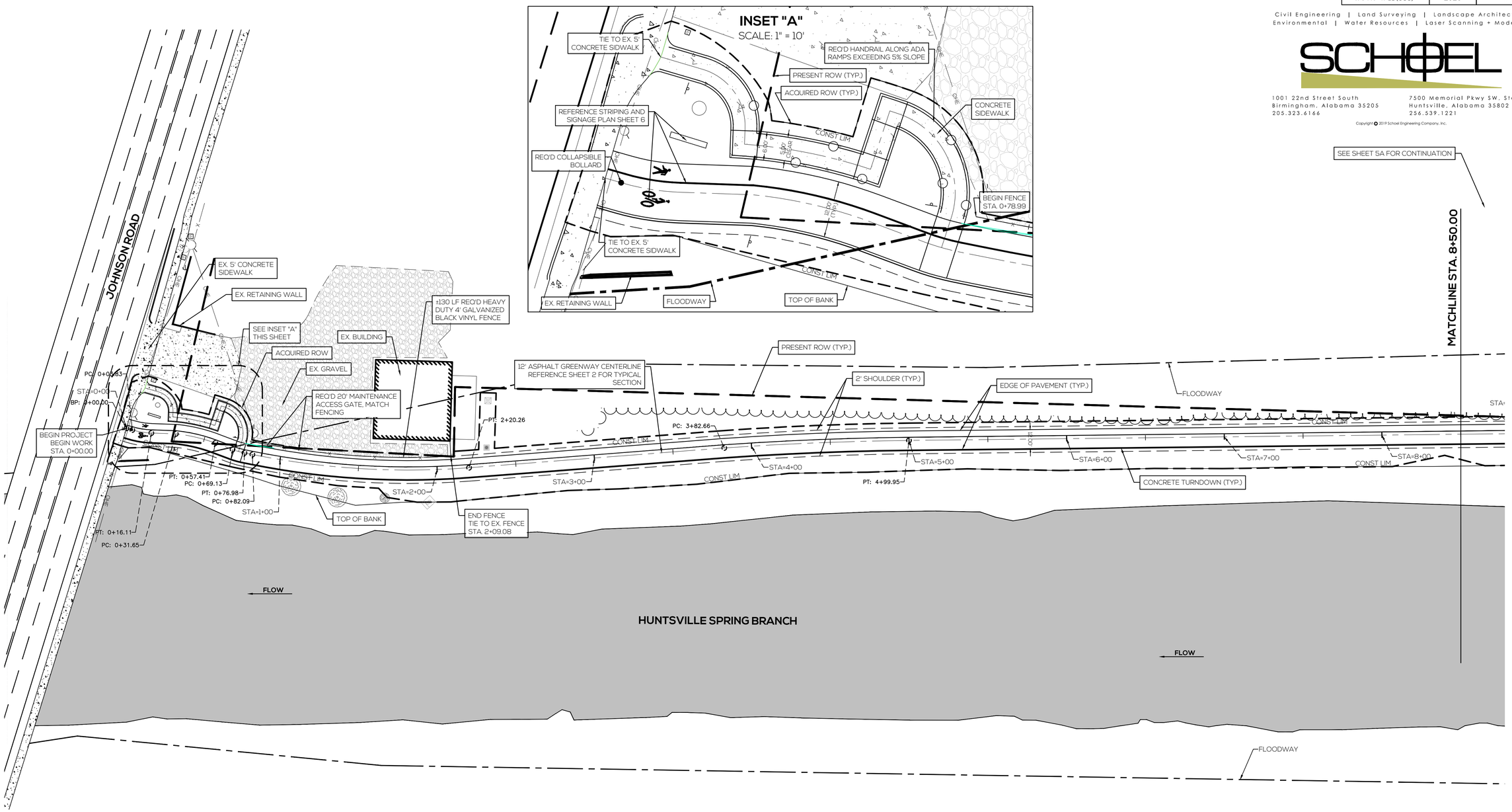

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

N

0 30' 60'

SHEET TITLE
SITE DEVELOPMENT PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

SITE DEVELOPMENT PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	5A

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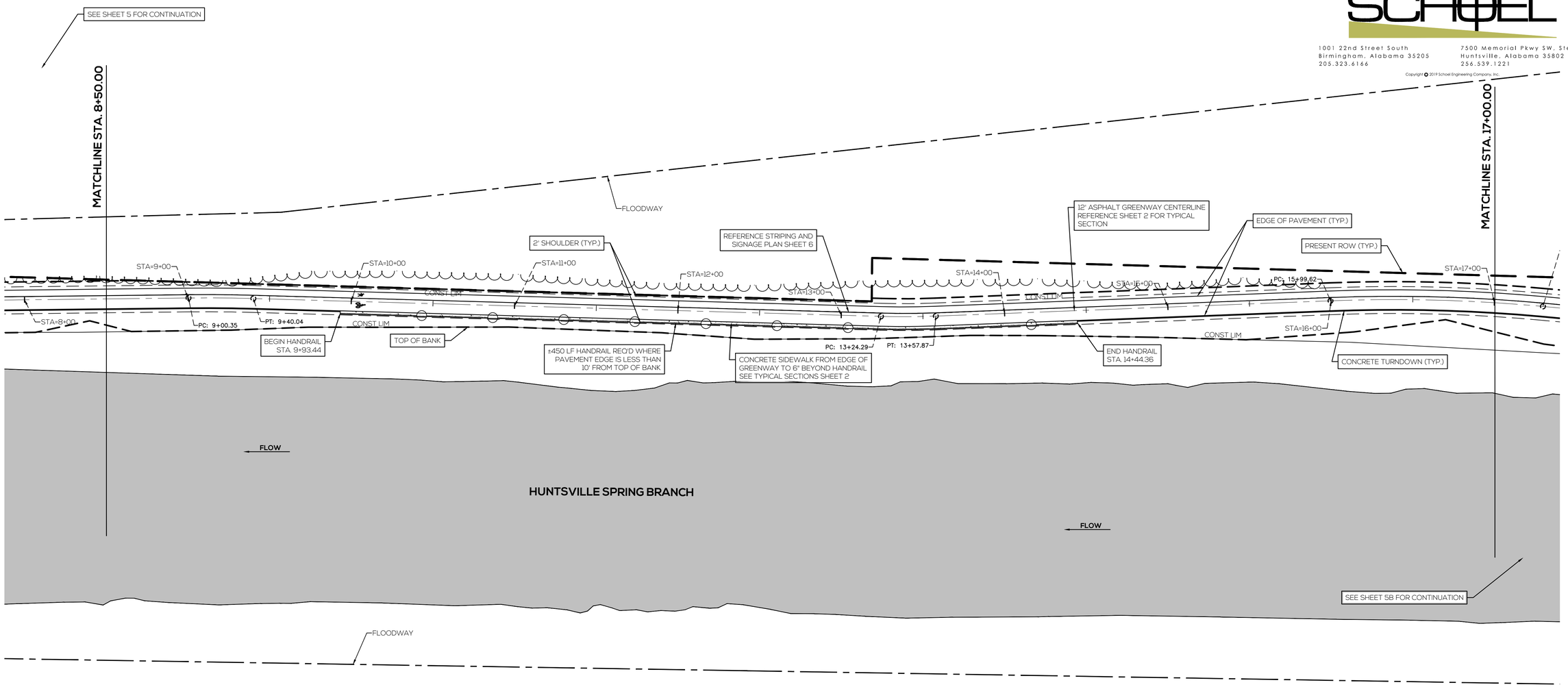

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ALABAMA DEPARTMENT OF TRANSPORTATION
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MONTGOMERY, AL 36130-3050

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SHEET TITLE
SITE DEVELOPMENT PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDR.DWG

SITE DEVELOPMENT PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	5B

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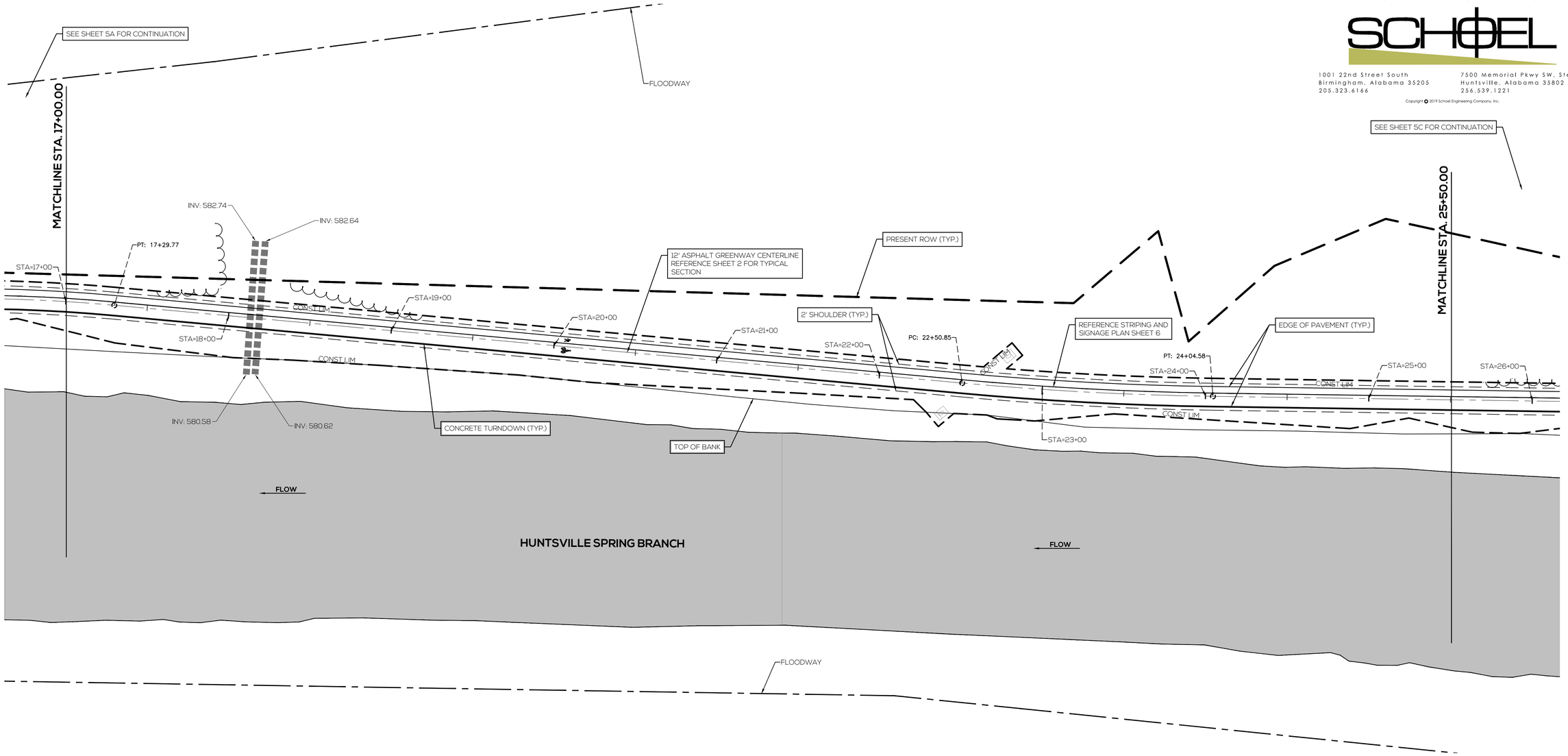

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

N

0 30' 60'

SHEET TITLE
SITE DEVELOPMENT PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE
3-19-20

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

SITE DEVELOPMENT PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	5C

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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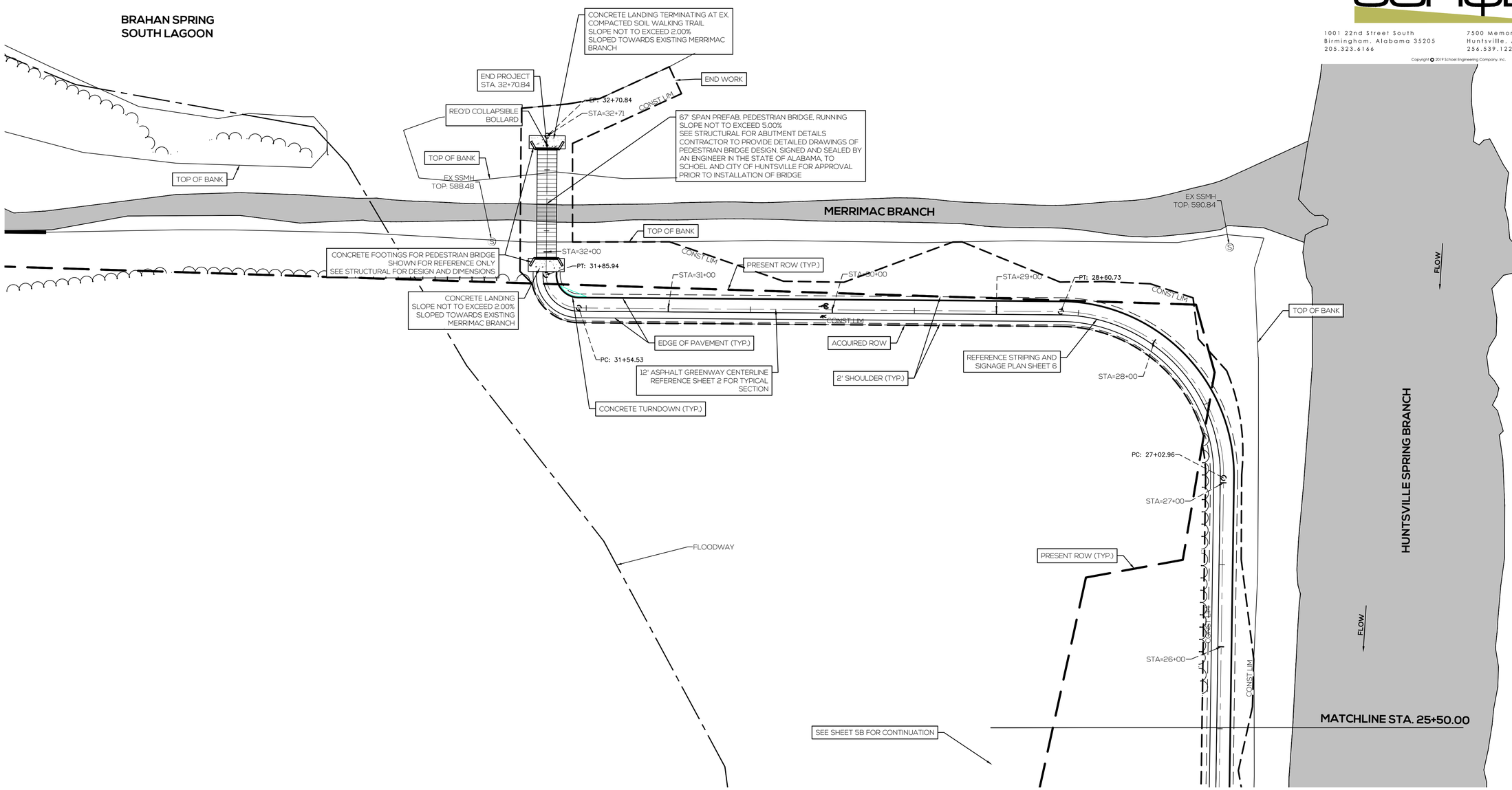

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

0 30' 60'

SHEET TITLE
SITE DEVELOPMENT PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE 3-19-20

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

STRIPING & SIGNAGE PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	6

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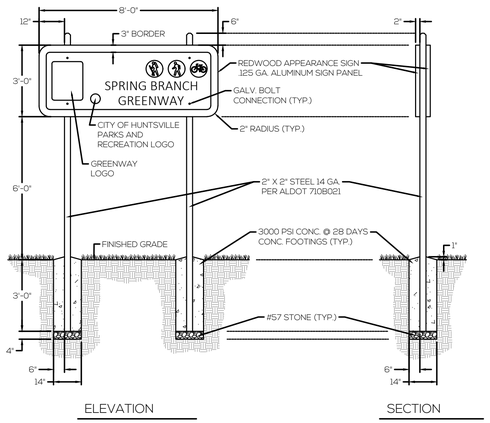


NOTES

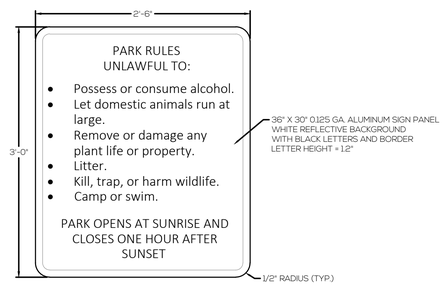
1. CITY OF HUNTSVILLE TO PROVIDE LOGOS.

COLOR AND STYLE SPECIFICATIONS

1. RETURNS, BACKS AND BORDER TO BE PRIMED AND PAINTED. COLOR SHALL BE MATTHEWS FOREST GREEN, MP 55690 OR EQUAL. FINISH SHALL BE A POLYURETHANE BAKED ENAMEL FINISH.
2. FACES TO BE DECORATED WITH 3M, 7 YEAR DIGITAL PRINTED VINYL AND LAMINATED WITH 7 YEAR 3M VINYL LAMINATE, OR APPROVED EQUAL.
3. ENTRANCE SIGN BACKGROUND SHALL APPEAR TO BE HEART REDWOOD COLORS.
4. SIGN SHALL HAVE CONCEALED MOUNTING BRACKETS.
5. SUBMIT SHOP DRAWINGS OF SIGN FOR APPROVAL PRIOR TO CONSTRUCTION.

PARK IDENTIFICATION SIGN DETAIL

NOT TO SCALE

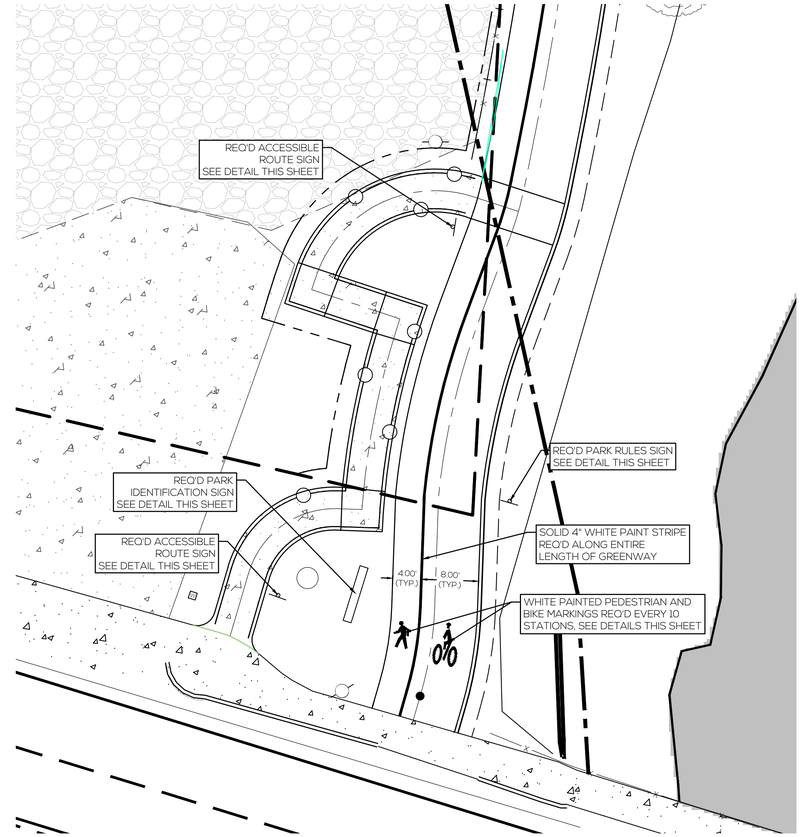


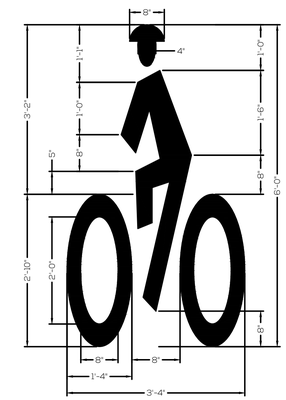
NOTES

1. CONFIRM PARK RULES WITH OWNER.
2. PROVIDE SHOP DRAWING TO OWNER FOR APPROVAL.
3. POST SHALL BE PER ALDOT 710B001.

PARK RULES SIGN

NOT TO SCALE



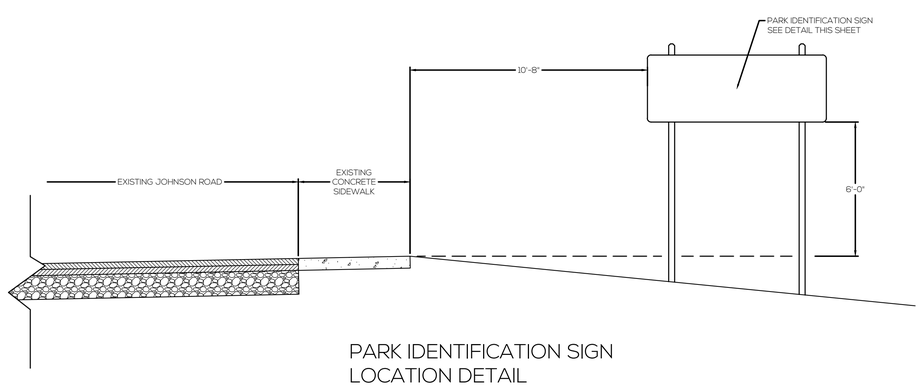


NOTES

1. MARKING SHALL BE PAINTED IN COMPLIANCE WITH MUTCD STANDARD HIGHWAY SIGNS 2004 EDITION.
2. MARKING SHALL BE CLASS I, TYPE A.

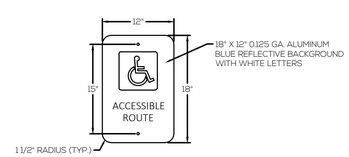
BIKE ROUTE SIGN

NOT TO SCALE



PARK IDENTIFICATION SIGN LOCATION DETAIL

NOT TO SCALE

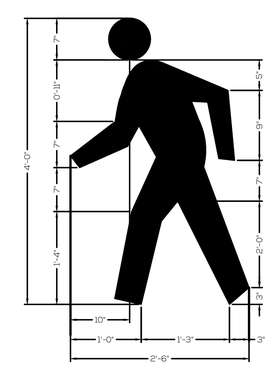


NOTES

1. PROVIDE SHOP DRAWING TO OWNER FOR APPROVAL.
2. POST SHALL BE PER ALDOT 710B001.

ACCESSIBLE ROUTE SIGN

NOT TO SCALE



NOTES

1. MARKING SHALL BE PAINTED IN COMPLIANCE WITH MUTCD STANDARD HIGHWAY SIGNS 2004 EDITION.
2. MARKING SHALL BE CLASS I, TYPE A.

PEDESTRIAN ROUTE SIGN

NOT TO SCALE

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	0 10' 20'	SHEET TITLE: STRIPING & SIGNAGE PLAN	ROUTE: HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

PLAN AND PROFILE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	7

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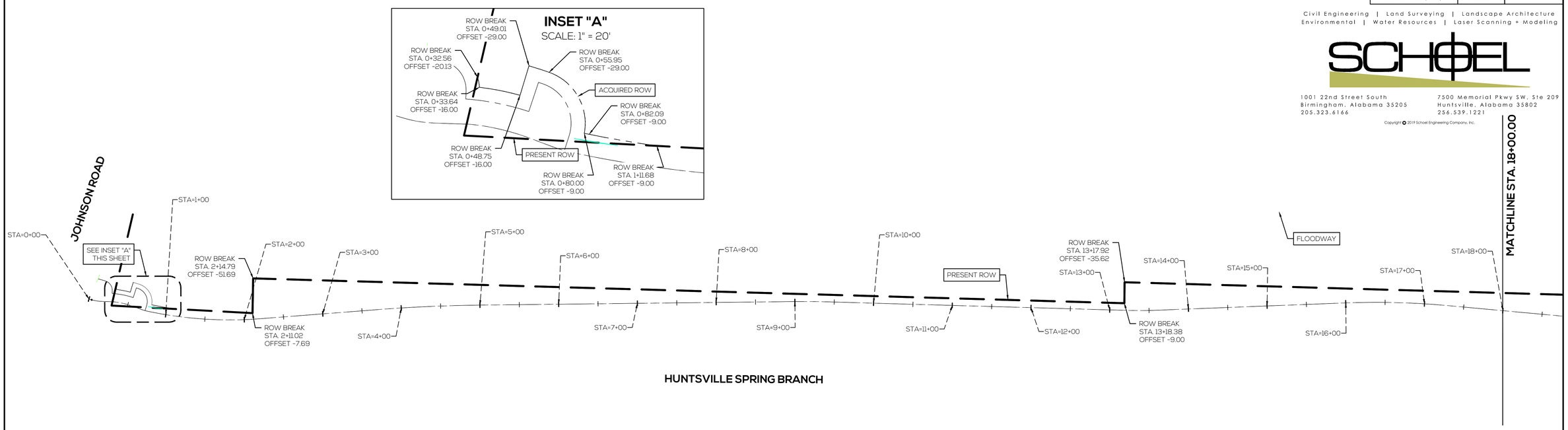

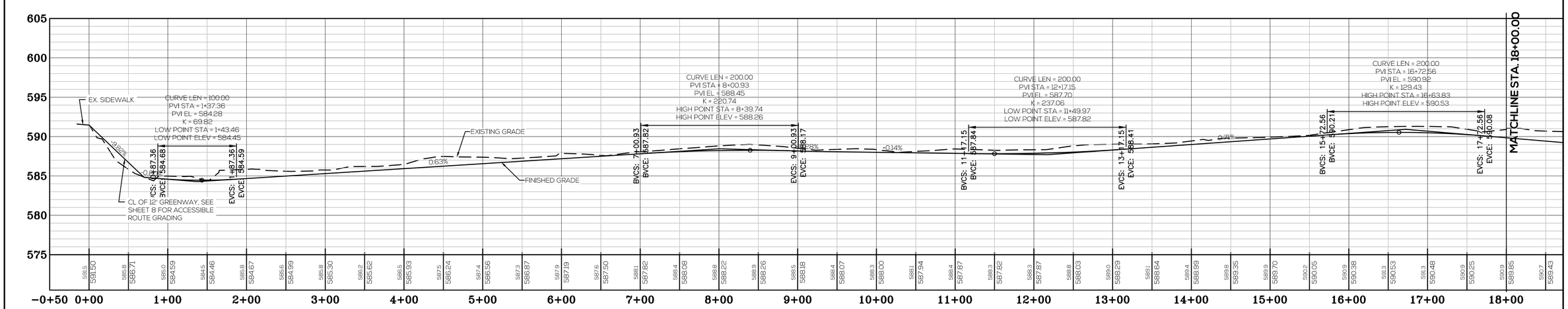

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	0 60' 120'	SHEET TITLE: PLAN AND PROFILE	ROUTE: HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 12-5-19	DATE: 12-5-19	DATE: 12-5-19	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

12-5-19 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

PLAN AND PROFILE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	7A

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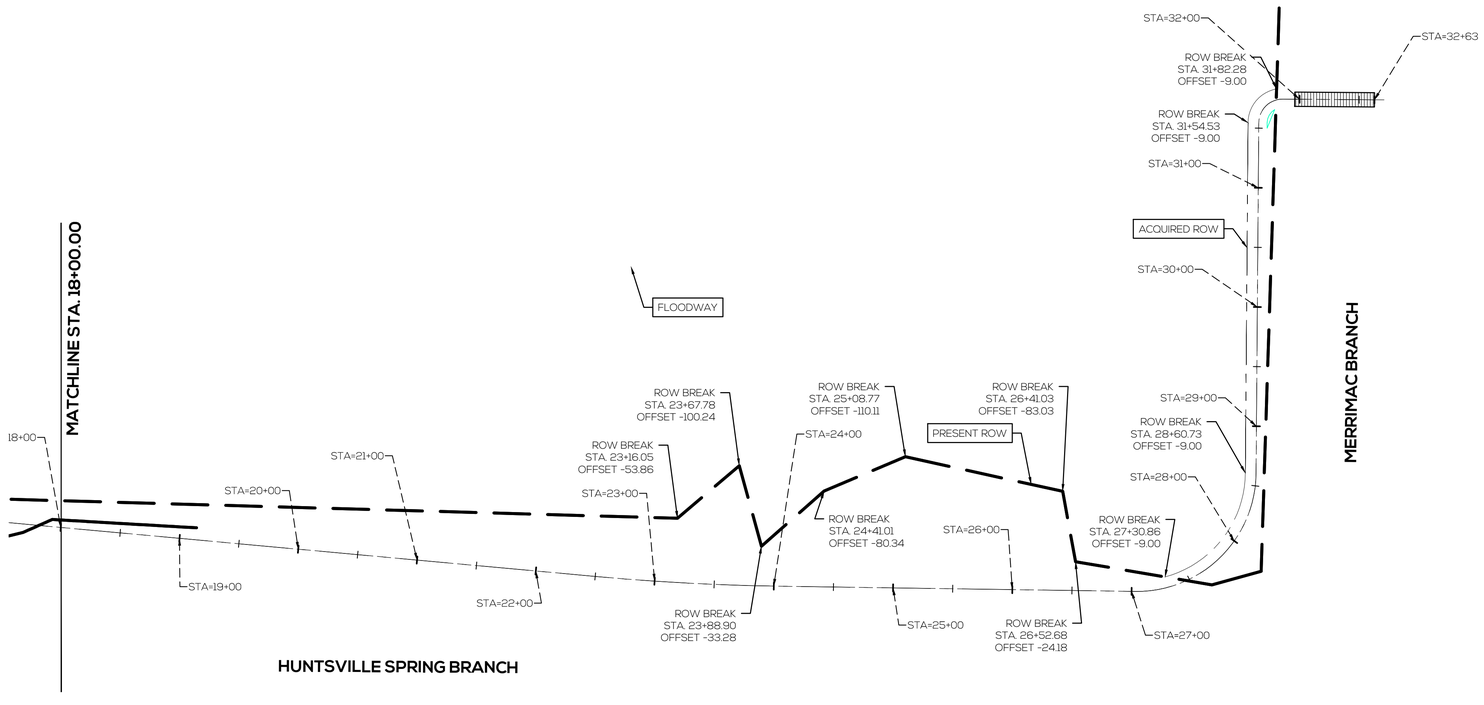

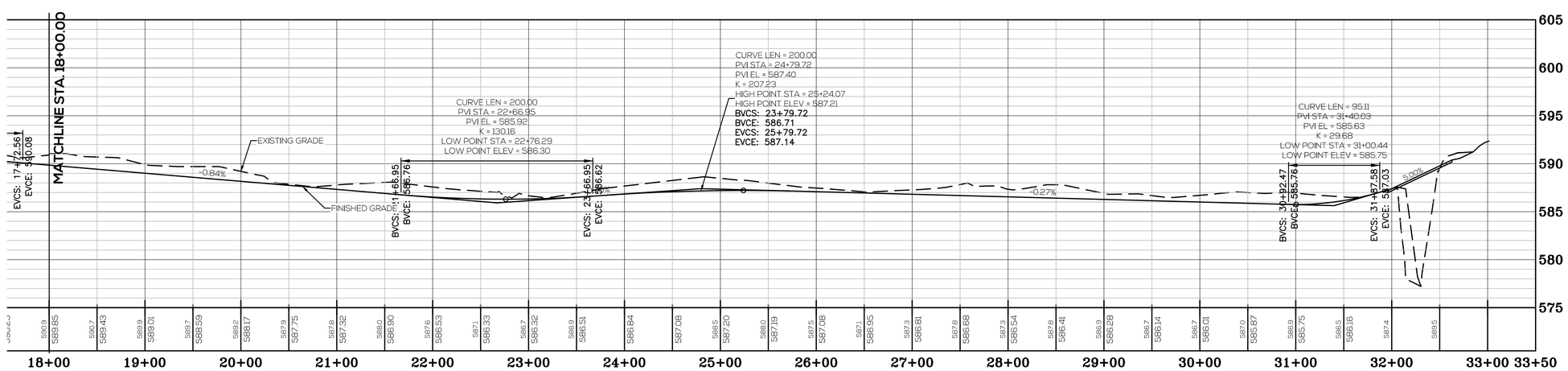

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 12-5-19	DATE: 12-5-19	DATE: 12-5-19	-

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

N

0 60' 120'

SHEET TITLE
PLAN AND PROFILE

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE 3-19-20

12-5-19 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

GRADING, DRAINAGE AND EROSION CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	8

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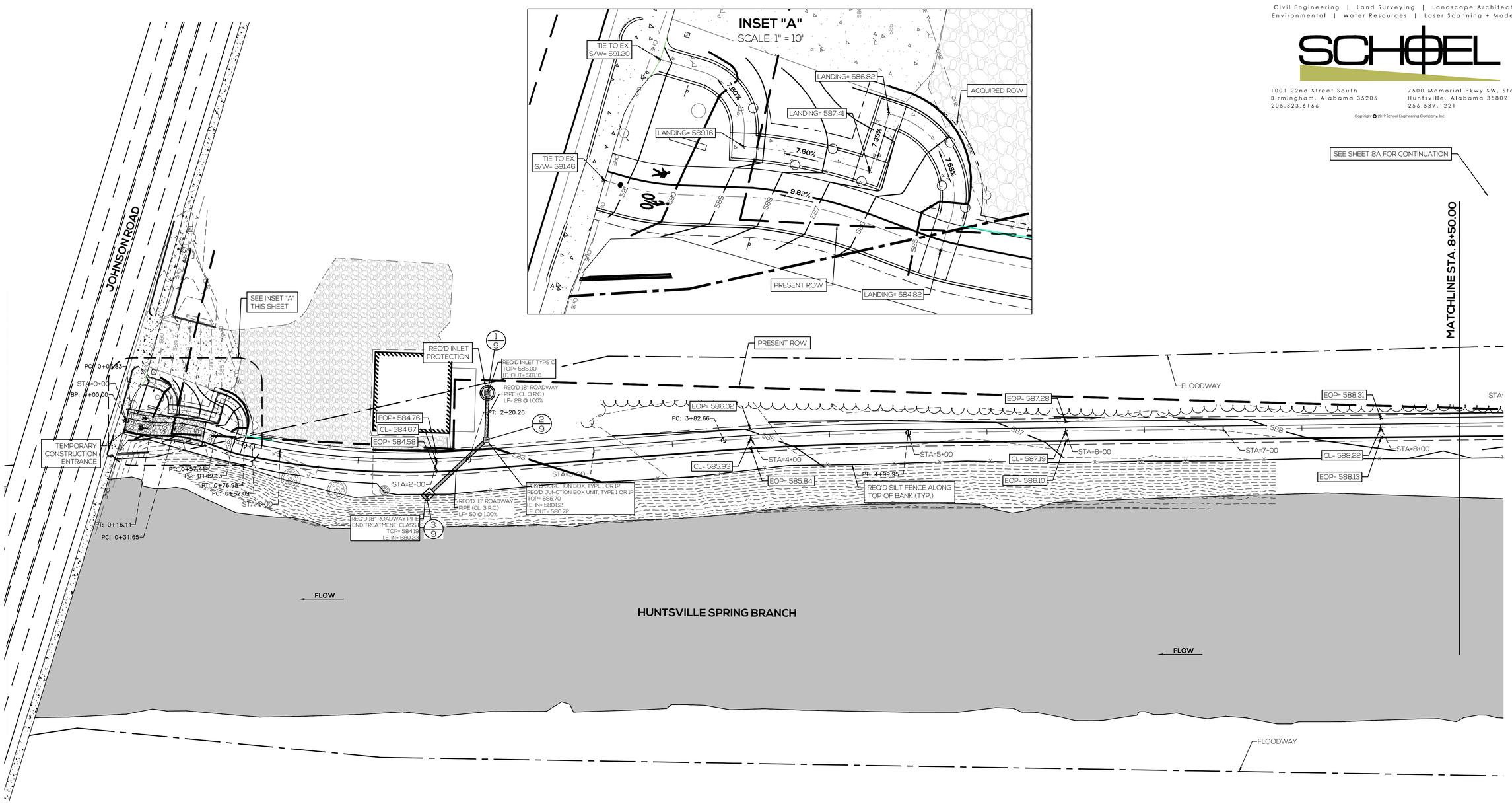

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

0 30' 60'

SHEET TITLE
GRADING, DRAINAGE AND EROSION CONTROL PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE 3-19-20

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

GRADING, DRAINAGE AND EROSION CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	8A

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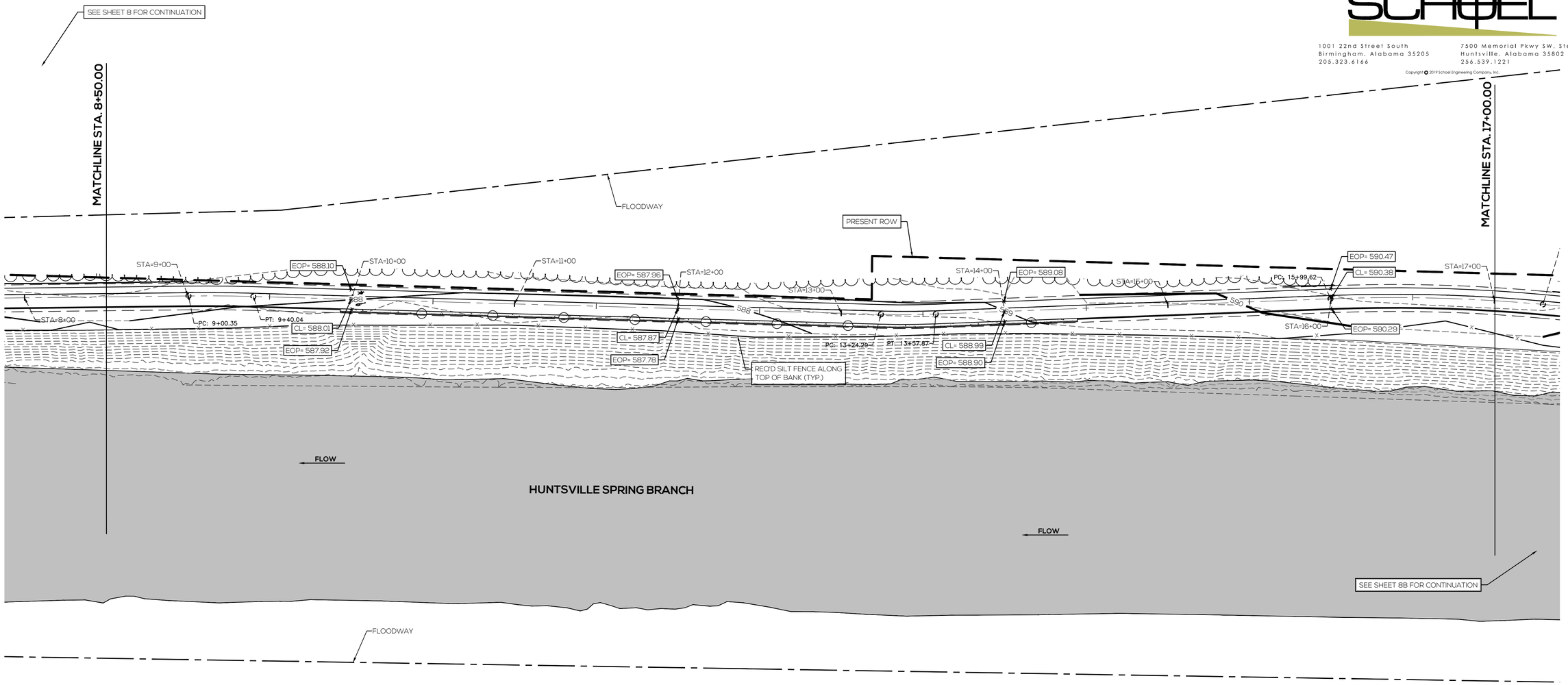

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

N

0 30' 60'

SHEET TITLE
GRADING, DRAINAGE AND EROSION CONTROL PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

GRADING, DRAINAGE AND EROSION CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	8B

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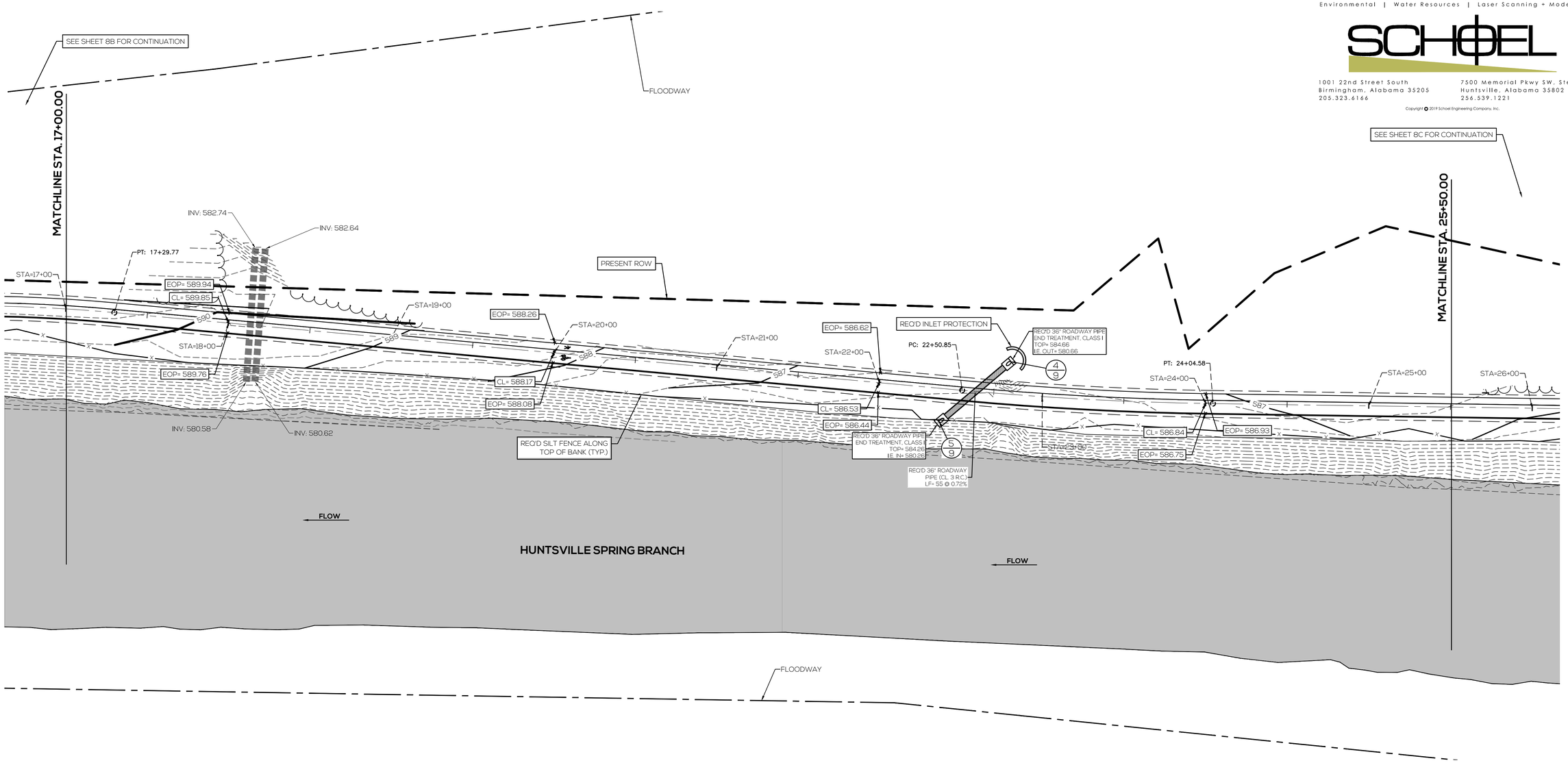

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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

N

0 30' 60'

SHEET TITLE
GRADING, DRAINAGE AND EROSION CONTROL PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-24-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

GRADING, DRAINAGE AND EROSION CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	8C

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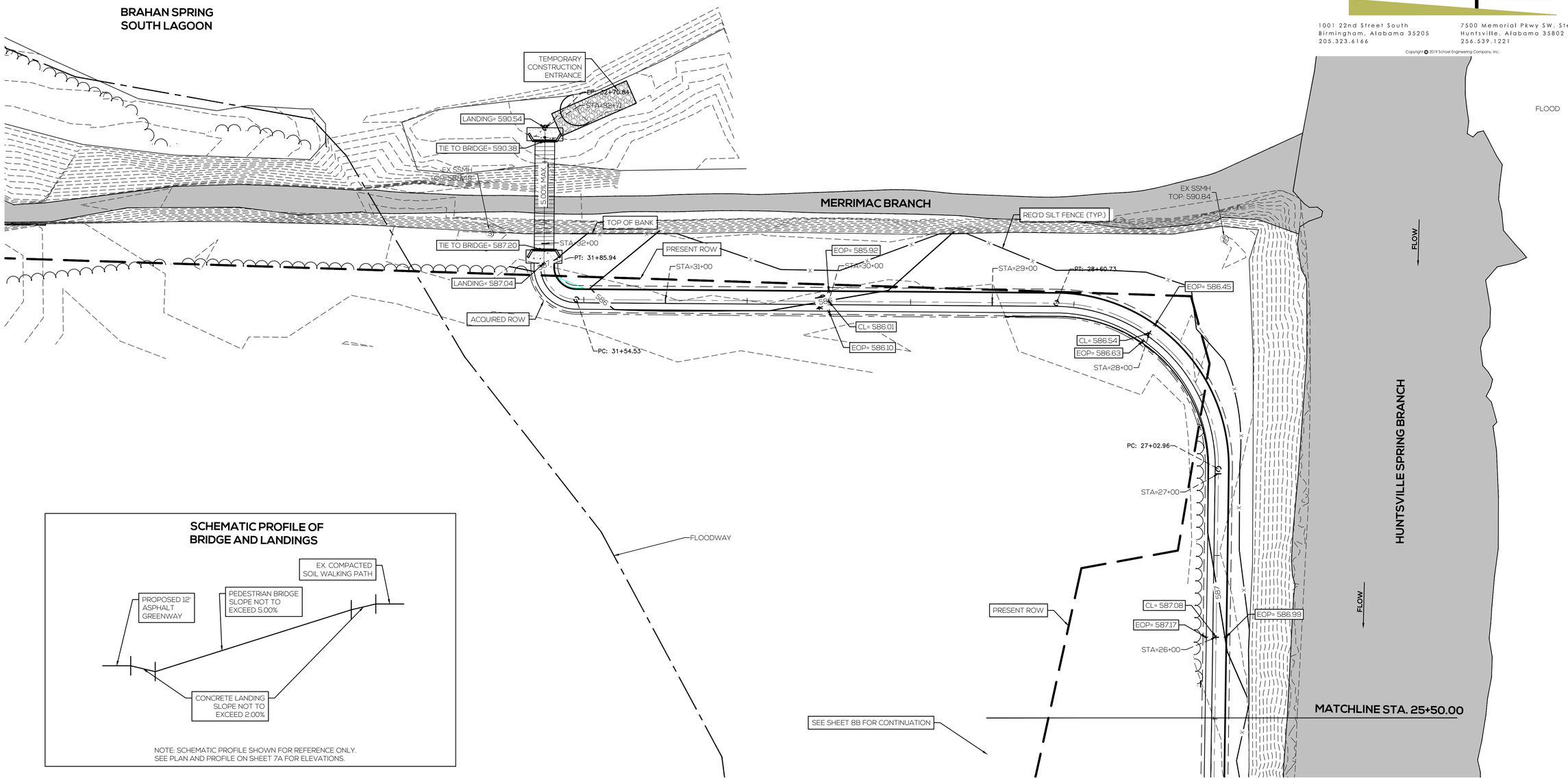

SCHEMATIC PROFILE OF BRIDGE AND LANDINGS

NOTE: SCHEMATIC PROFILE SHOWN FOR REFERENCE ONLY.
SEE PLAN AND PROFILE ON SHEET 7A FOR ELEVATIONS.

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

0 30' 60'

SHEET TITLE
GRADING, DRAINAGE AND EROSION CONTROL PLAN

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

DRAINAGE SECTIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	9

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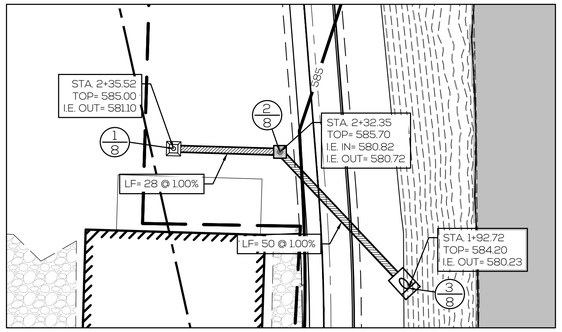
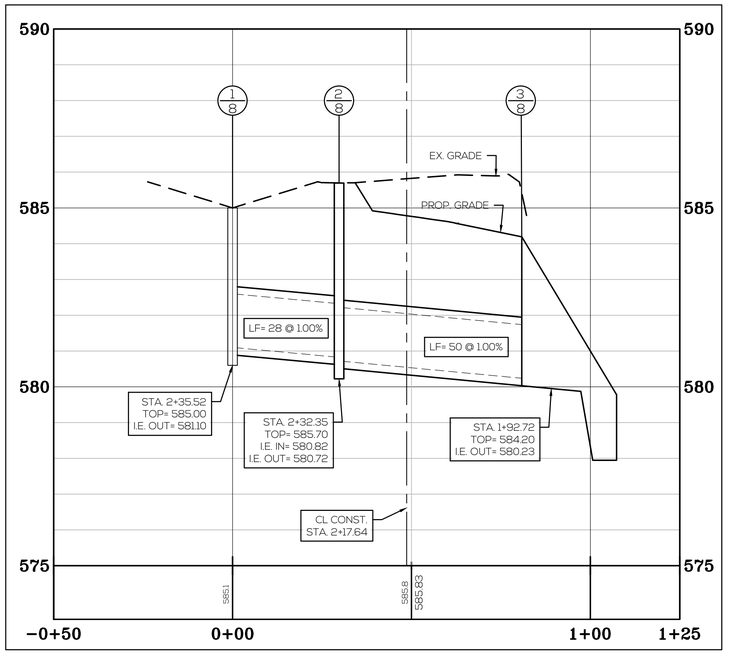
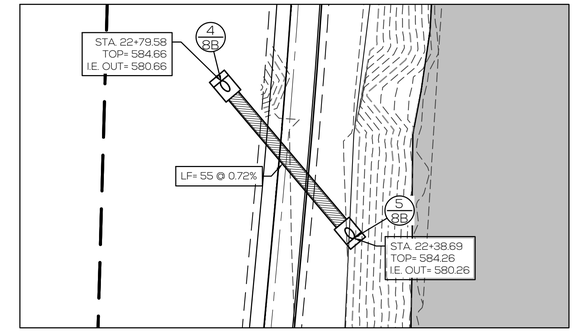
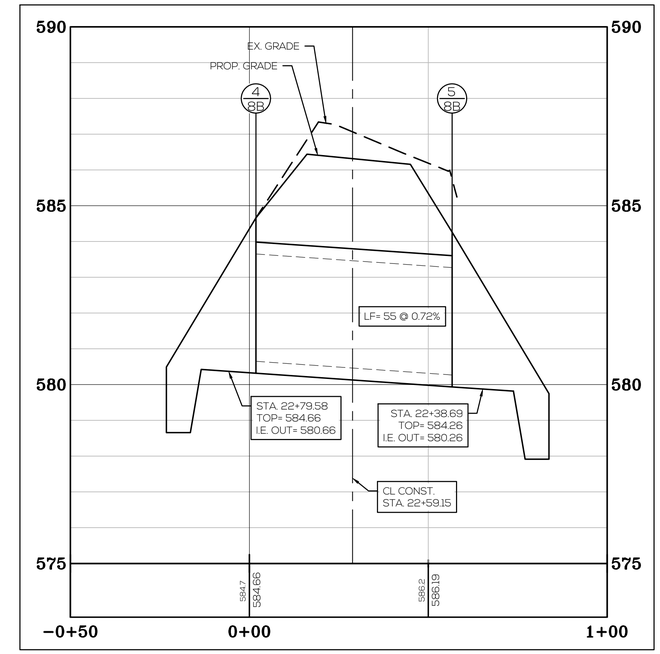




STRUCTURE	QUANTITY	DESCRIPTION
1	REQ'D 1	INLET TYPE C
1-2	REQ'D 28 LF	18" ROADWAY PIPE (CL. 3 R.C.)
2	REQ'D 1	JUNCTION BOX, TYPE 1 OR 1P
		JUNCTION BOX UNIT, TYPE 1 OR 1P
2-3	REQ'D 50 LF	18" ROADWAY PIPE (CL. 3 R.C.)
3	REQ'D 1	18" ROADWAY PIPE END TREATMENT, CLASS 1





STRUCTURE	QUANTITY	DESCRIPTION
4	REQ'D 1	36" ROADWAY PIPE END TREATMENT, CLASS I
4-5	REQ'D 55 LF	36" ROADWAY PIPE (CL. 3 R.C.)
5	REQ'D 1	36" ROADWAY PIPE END TREATMENT, CLASS I

18-139 CDB.DWG
DRAWN BY: L. WILLMOT
3-24-20

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

N

0 20' 40'

SHEET TITLE
DRAINAGE SECTIONS

ROUTE
HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	10

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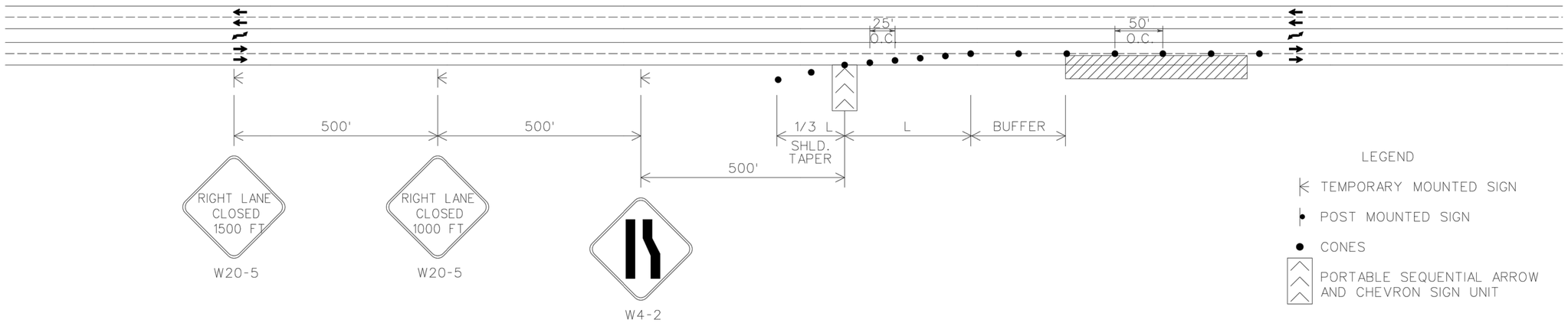
TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



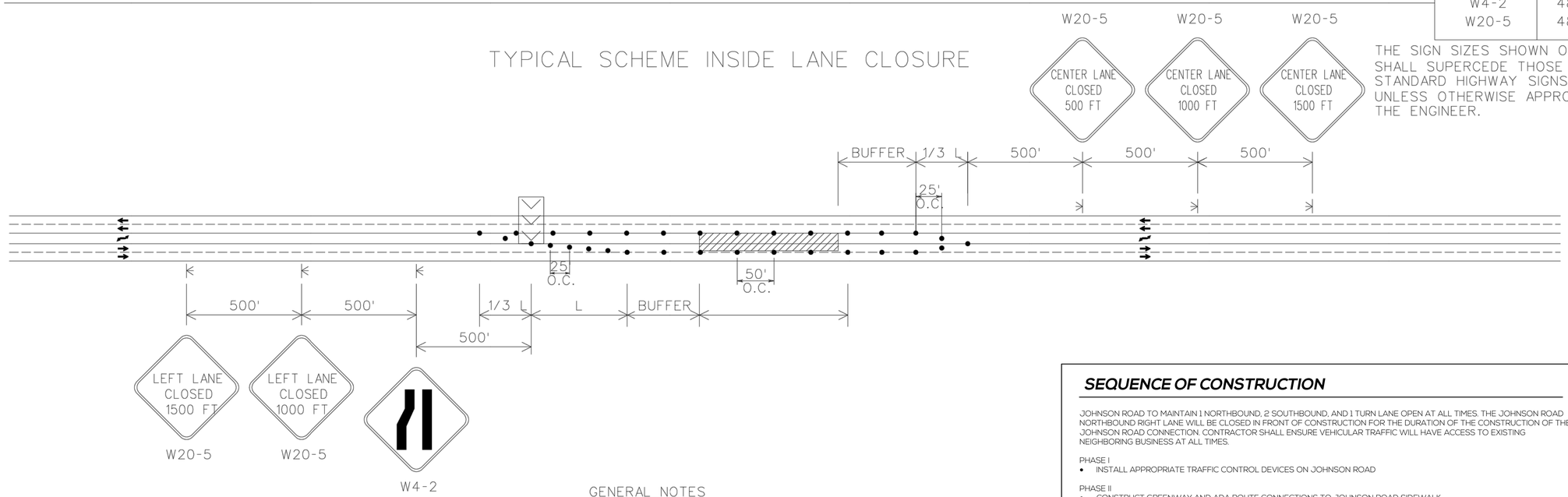
LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT

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

THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TYPICAL SCHEME INSIDE LANE CLOSURE



GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

SEQUENCE OF CONSTRUCTION

JOHNSON ROAD TO MAINTAIN 1 NORTHBOUND, 2 SOUTHBOUND, AND 1 TURN LANE OPEN AT ALL TIMES. THE JOHNSON ROAD NORTHBOUND RIGHT LANE WILL BE CLOSED IN FRONT OF CONSTRUCTION FOR THE DURATION OF THE CONSTRUCTION OF THE JOHNSON ROAD CONNECTION. CONTRACTOR SHALL ENSURE VEHICULAR TRAFFIC WILL HAVE ACCESS TO EXISTING NEIGHBORING BUSINESS AT ALL TIMES.

PHASE I
- INSTALL APPROPRIATE TRAFFIC CONTROL DEVICES ON JOHNSON ROAD

PHASE II
- CONSTRUCT GREENWAY AND ADA ROUTE CONNECTIONS TO JOHNSON ROAD SIDEWALK

PHASE III
- REMOVE TRAFFIC CONTROL DEVICES TO RE-OPEN NORTHBOUND LANE

ALABAMA LICENSED No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE 3-19-20

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-

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

N

0 50' 100'

SHEET TITLE: TRAFFIC CONTROL PLAN

ROUTE: HUNTSVILLE SPRING BRANCH GREENWAY

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

TRAFFIC CONTROL DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV-TA18(933)	2020	11

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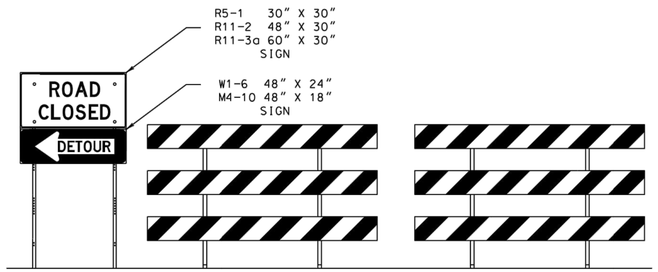
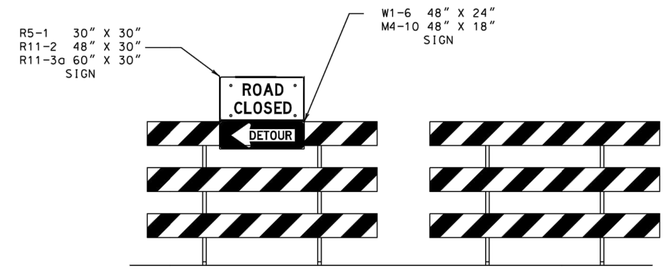


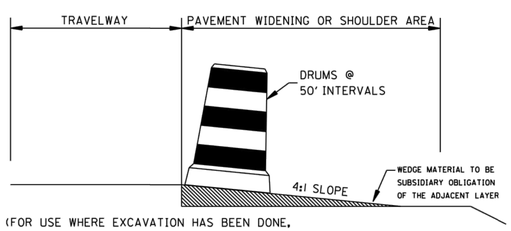
DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



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.

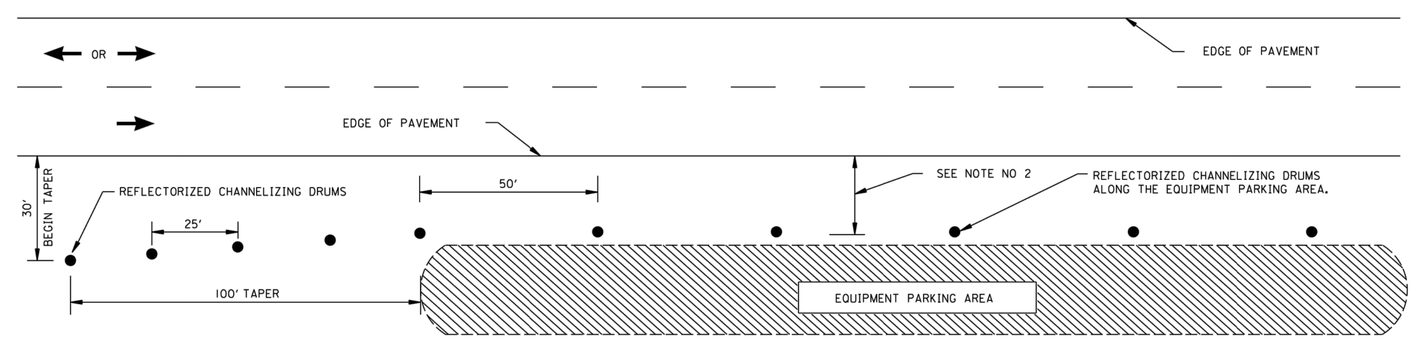


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESURFACING PROJECTS IS 3' OR MORE AT NIGHTFALL)

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. SEE ALDOT'S GENERAL TRAFFIC CONTROL PLAN NOTE NO. 702.
2. 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.
3. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAIL FOR EQUIPMENT PARKING OR STORING AREA

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE TRAFFIC CONTROL DETAILS	ROUTE HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

3-24-20 DRAWN BY: L. WILLMOT 18-139.CDB.DWG

TRAFFIC CONTROL DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
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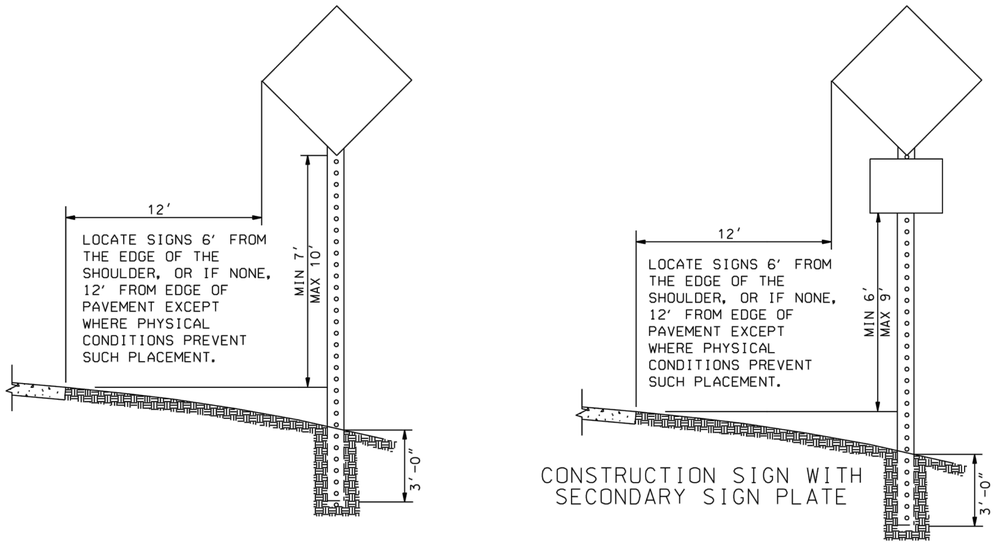
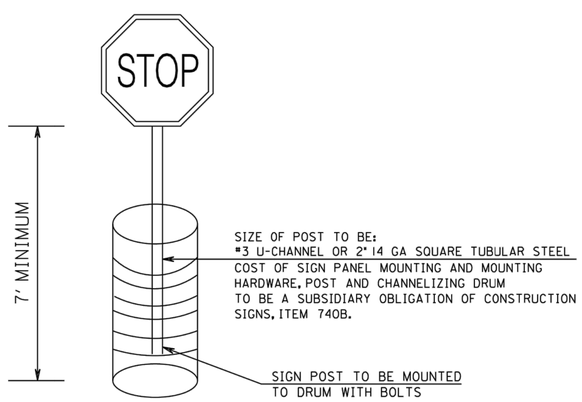
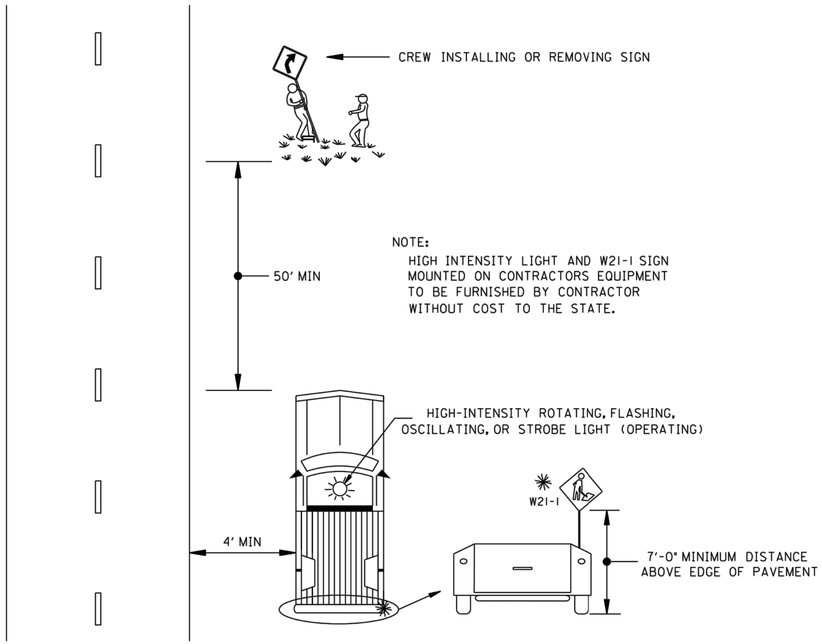


NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS



TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS

DRAWN BY: L. WILLMOT 18-139 CDB.DWG 3-24-20

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE TRAFFIC CONTROL DETAILS	ROUTE HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

TRAFFIC CONTROL DETAILS

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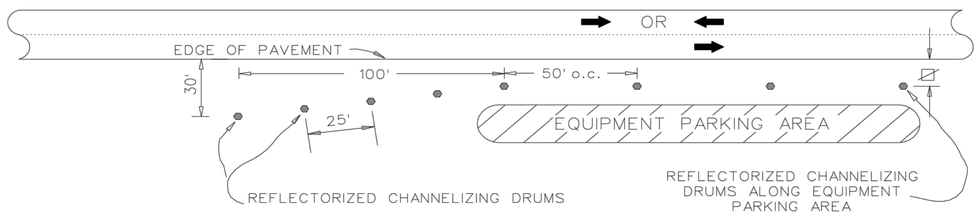
TRAFFIC CONTROL PLAN MOBILE OPERATIONS NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, 2009 EDITION. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO TYPICAL APPLICATION 17, MOBILE OPERATIONS ON TWO-LANE ROAD & SUBARTICLE 701.03(m) OF THE STANDARD SPECIFICATIONS.
2. 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 COSTS TO THE ALABAMA DEPARTMENT OF TRANSPORTATION (SEE DETAIL SKETCH 1).
3. ALL CONTRACTOR'S EMPLOYEES PERSONAL VEHICLES AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION SHALL BE PARKED A MINIMUM OF 30 FEET FROM THE TRAVELED WAY DURING WORKING HOURS SO AS NOT TO CREATE A HAZARD. EQUIPMENT AND VEHICLES MAY BE PARKED CLOSER IF OUTSIDE CLEARZONE AND WITH PERMISSION OF THE ENGINEER.
4. MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

DELINEATING DETAILS FOR EQUIPMENT PARKING AREAS

FOR USE ONLY WHEN EQUIPMENT CANNOT BE STORED THIRTY FEET OR MORE FROM THE EDGE OF PAVEMENT

☒ 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.



DETAIL SKETCH 1
DELINEATING DETAILS FOR
EQUIPMENT PARKING AREAS

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE TRAFFIC CONTROL DETAILS	ROUTE HUNTSVILLE SPRING BRANCH GREENWAY
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

PROJECT CONSTRUCTION DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
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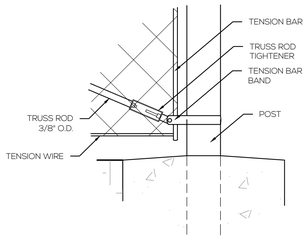
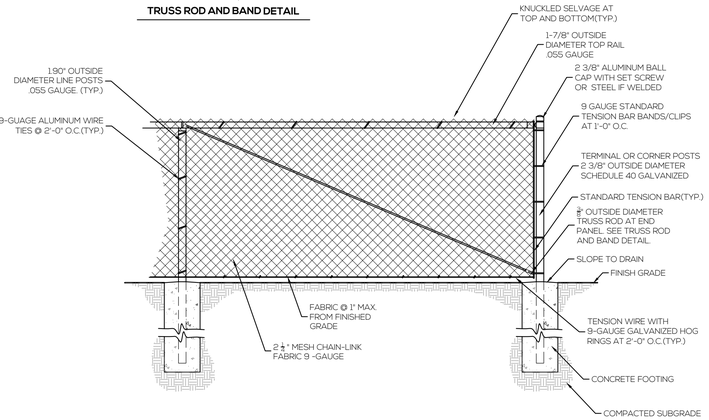


TRUSS ROD AND BAND DETAIL

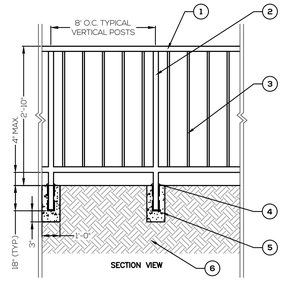
MATERIAL	SIZE	GUAGE	NOTES
MESH	2 1/4"	9 GA	
TOP RAIL	1 7/8"	SCH 40	
LINE POST	1.90"	SCH 40	
TERMINAL/CORNER/GATE POSTS	2 3/8"	SCH 40	
LOOP CAPS	1.90"		
END CAPS	2 3/8"		
TENSION BARS		BAR(TYP.)	ENDS(TYP.)
TENSION WIRE		9 GA	BOTTOM
TIES	2" O.C.		



4' TALL CHAIN-LINK FENCE DETAIL

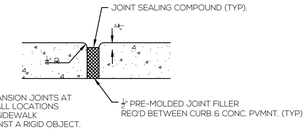
NOT TO SCALE

1. 1 1/2" DIAMETER SCHED. 40 STEEL PIPE HANDRAIL, POWDER COAT BLACK
2. 1 1/2" ø PIPE POST SUPPORT (POWDER COAT BLACK) FOR RAILING RUNS GREATER THAN 6' LONG. PROVIDE 1 1/4" ø VERTICAL PIPE POST AS SHOWN ON DETAIL.
3. 1" SQ. TUBE PICKETS 48" O.C. POWDER COAT BLACK
4. METAL POST BASE WITH FLANGE DETAIL (TYP.) ATTACH PER MANUFACTURER SPECIFICATIONS
5. TYPICAL CONCRETE POST FOOTING.
6. EARTH



HANDRAIL DETAIL

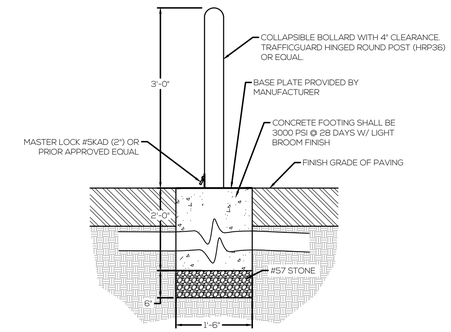
NOT TO SCALE



NOTE: SPACE EXPANSION JOINTS AT 50' MAX., AND AT ALL LOCATIONS WHERE CURB OR SIDEWALK TERMINATES AGAINST A RIGID OBJECT.

SIDEWALK & CURB EXPANSION JOINT DETAIL

NOT TO SCALE



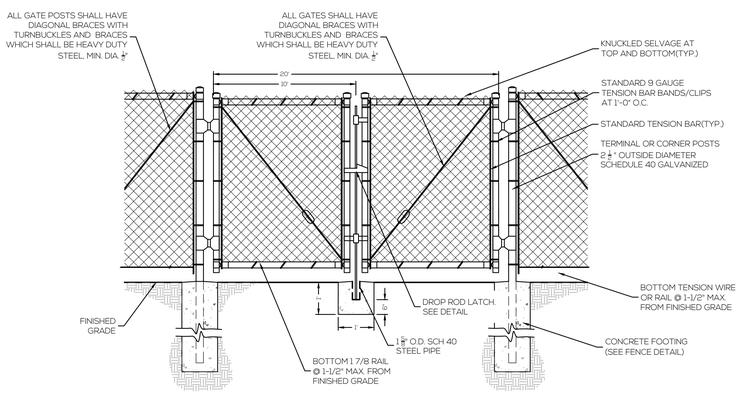
LOCKING NOTES:

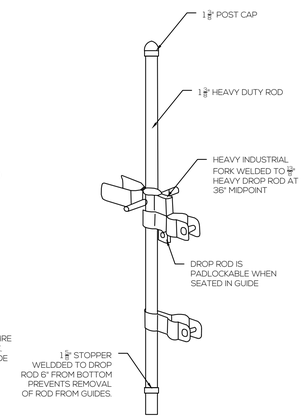
1. INSTALL LOCKING PIN THRU UP POSITION BOLLARD AND INSTALL PADLOCK. REQ'D TO BE MASTER LOCK, #3906. 7-3/4".
2. ALL LOCKS SHALL BE KEYED TO MATCH. PROVIDE TWO SETS OF KEYS TO OWNER.

45 DEGREE POSITION | UP POSITION | DOWN POSITION

COLLAPSIBLE BOLLARD

NOT TO SCALE





DROP ROD LATCH DETAIL
N.T.S.

NOTES:

1. GATES SHALL BE FRAMED ON FOUR SIDES WITH 2" DIA. PIPE. THE GATE FRAMES SHALL BE OF ALL SHOP WELDED CONSTRUCTION WITH COMPLETE FULL WELDS GROUND SMOOTH.
2. GATE HINGES SHALL BE HEAVY-DUTY MALLEABLE IRON FULL-BACK TYPE, ALLOWING FOR 180° SWING. GATE-LOCKING DEVICE SHALL BE HEAVY-DUTY EXTERNAL TYPE WITH LATCH KEEPER AND ALL APPURTENANCES. CONTRACTOR TO INSTALL LOCKING DEVICE AND PROVIDE KEY TO CITY OF HUNTSVILLE.

4' DOUBLE LEAF CHAIN-LINK GATE DETAIL

NOT TO SCALE

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

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DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-				

ALABAMA LICENSED 3-19-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

STRUCTURAL DETAILS

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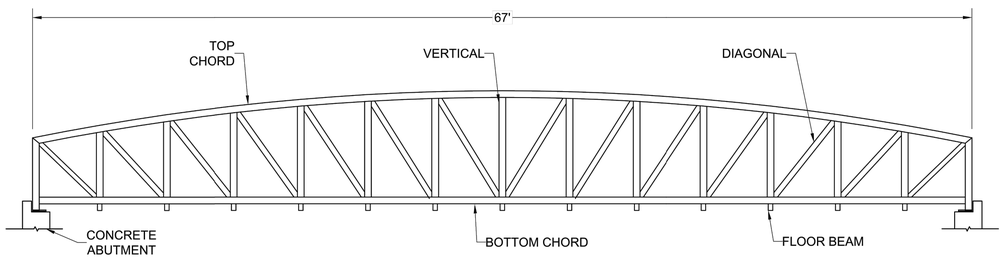
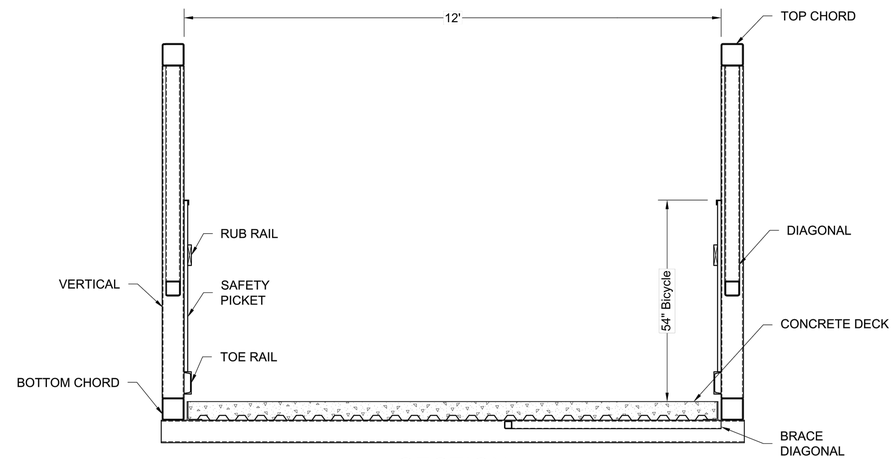


BRIDGE ELEVATION



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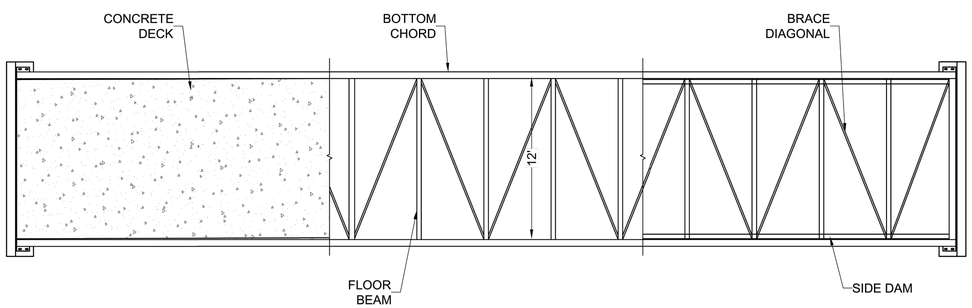

DECK BRACING FRAMING

BRIDGE PLAN

BRIDGE NOTE:

1. STANDARD DETAILS PROVIDED ON THIS PAGE ARE FOR REFERENCE ONLY TO SHOW THE APPROXIMATE DIMENSIONS AND CONFIGURATION OF PEDESTRIAN BRIDGE.
2. REFERENCE STRUCTURAL FOR ABUTMENT DESIGN.
3. CONTRACTOR TO PROVIDE DETAILED DRAWINGS OF PEDESTRIAN BRIDGE DESIGN, SIGNED AND SEALED BY AN ENGINEER IN THE STATE OF ALABAMA, TO SCHOEL AND CITY OF HUNTSVILLE FOR APPROVAL PRIOR TO INSTALLATION OF BRIDGE.

3-24-20 DRAWN BY: L. WILLMOT 18-139 CDB.DWG

RESPONSIBLE P.E.: JERRY M. CARGILE, PE	SUPERVISOR: JAMES T. CUNNINGHAM, PE	DESIGNER: LIZ WILLMOT, EI	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050	NO SCALE	SHEET TITLE	ROUTE
DATE: 3-24-20	DATE: 3-24-20	DATE: 3-24-20	-			STRUCTURAL DETAILS	HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED 3-24-20 No. 19827 PROFESSIONAL ENGINEER JERRY M. CARGILE

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GENERAL NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
2. GENERAL CONTRACTOR SHALL CHECK AND VERIFY DIMENSIONS AND GRADE CONDITIONS (NEW AND EXISTING). GENERAL CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO STARTING WORK. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WORK FITTING AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.
3. THE STRUCTURE SHOWN HEREIN HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATION OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.
4. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. REFER TO CIVIL DRAWINGS FOR FLOOR FINISHES AND DIMENSIONS NOT SHOWN HEREIN.
6. THE STRUCTURAL DRAWINGS ARE NOT INTENDED FOR USE AS SHOP ERECTION DRAWINGS. REPRODUCTION OF THESE DRAWINGS IN LIEU OF PREPARATION OF SHOP ERECTION DRAWINGS IS NOT ACCEPTABLE. SHOP DRAWINGS SHALL BE THOROUGHLY DETAILED AND CLEAR FOR ALL DIFFERENT CONDITIONS.

STRUCTURAL DESIGN CRITERIA:

1. APPLICABLE CODES
   A. INTERNATIONAL BUILDING CODE (IBC) – 2009 EDITION
   B. A.I.S.C. NINTH EDITION 1989
   C. A.W.S. D1.1
   D. A.C.I. 318

FOUNDATIONS/EARTHWORK:

1. EARTHWORK SHALL BE PERFORMED UNDER THE OBSERVATION OF A LICENSED GEOTECHNICAL ENGINEER OR REPRESENTATIVE THEREFROM. ENGINEERING FILL SHALL BE PLACED AND COMPACTED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. UNSUITABLE MATERIAL SHALL BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH LEAN CONCRETE.
2. COORDINATE FINISH GRADE WITH CIVIL DRAWINGS. (2)
3. FILL MATERIALS SHALL BE FREE OF ORGANIC OR OTHER DELETIOUS MATERIALS WITH A MAXIMUM PARTICLE SIZE OF 3 INCHES. FILL MATERIALS SHALL HAVE A PLASTICITY INDEX OF 30 OR LESS. FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS. SOILS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OR EQUIVALENT.
4. FOUNDATION DESIGN CRITERIA: ALL SPREAD AND STRIP FOOTINGS SHALL BE SUPPORTED ON SOIL WITH AN ALLOWABLE FOOTING DESIGN PRESSURE OF 2000 PSF. GEOTECHNICAL ENGINEER SHALL VERIFY CAPACITY BEFORE FOUNDATIONS ARE POURED.
5. EXTERIOR FOOTING BOTTOMS SHALL EXTEND A MINIMUM OF 2'–0" BELOW FINAL GRADE. FOOTING BOTTOMS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. FOOTINGS SHOULD BE PLACED THE SAME DAY AS EXCAVATION IF POSSIBLE. AS A MINIMUM, PROTECT THE EXCAVATIONS FROM WATER.
6. SPREAD FOOTINGS SHALL BE PLACED ON NEAT, CLEAN, DRY, AND UNFROZEN EXCAVATIONS. EXCAVATION SHALL BE DONE USING A SMOOTH–MOUNTED BUCKET. EXTREME CARE SHALL BE TAKEN WHEN EXCAVATING NEAR THE BEARING SURFACE. FOOT TRAFFIC SHALL BE KEPT TO A MINIMUM NECESSARY TO PLACE THE FOOTING REINFORCEMENT AND CONCRETE.

CONCRETE/REINFORCING:

1. USE OF DIFFERENT CLASSES OF CONCRETE SHALL BE AS SHOWN BELOW. CONCRETE BATCH DESIGN(S) SHALL BE PROPORTIONED AND PRODUCED IN ACCORDANCE WITH A.C.I. 318 AND A.C.I. 301. SEE CONCRETE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, MATERIAL PROPERTIES, AND NECESSARY INSPECTIONS/TESTING.

   F'c = 4000 PSI MINIMUM – ALL CONCRETE.

   CONCRETE SHALL BE READY MIXED CONFORMING TO ASTM C94.
2. CONCRETE PRODUCTS SHALL CONSIST OF THE FOLLOWING:

   PORTLAND CEMENT COMPLYING WITH ASTM C150
   AGGREGATES COMPLYING WITH ASTM C33
   POTABLE WATER
   WATER REDUCING ADMIX. COMPLYING WITH ASTM C494, TYPE A
   AIR ENTRAINING ADMIX. COMPLYING WITH ASTM C260
   ACCELERATOR ADMIX. COMPLYING WITH ASTM C494, TYPE C OR E
   FLYASH LIMITED TO 100 LBS. MAX PER CUBIC YARD CONCRETE

   CALCIUM CHLORIDE NOT ALLOWED.
3. CONCRETE SLUMP SHALL BE BETWEEN 3" AND 5" MEASURED AT THE POINT OF DISCHARGE. CONCRETE SLUMP SHALL NOT EXCEED 5" WITHOUT THE ADDITION OF A SUPER–PLASTICIZER. CONCRETE SLUMP SHALL NOT EXCEED 5" PRIOR TO THE INSTALLATION OF A SUPER–PLASTICIZER.
4. REINFORCING BARS SHALL CONFORM TO THE FOLLOWING A.S.T.M. SPECIFICATIONS.

   A–615, GRADE 60:ALL OTHER REINFORCING.
5. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED.
6. ALL REINFORCING IS SPECIFIED IN INCHES AND "ON CENTER" (OC) UNLESS NOTED OTHERWISE.
7. MINIMUM CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:

   FOOTINGS – TOPS 2"
   FOOTINGS – BOTTOM 3"
   FOOTINGS – SIDES 3"

   OTHER COVER REQUIREMENTS SHALL BE AS NOTED IN APPLICABLE DETAILS OR AS SPECIFIED IN A.C.I. 318.
8. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS. BAR SUPPORTS SHALL BE LOCATED AGAINST THE OUTERMOST BAR.
9. ALL ITEMS EMBEDDED IN CONCRETE MUST BE TIED AND SECURED PRIOR TO PLACEMENT OF CONCRETE. NO "WET STICKING" IS ALLOWED.
10. REINFORCING SUPPLIER SHALL PROVIDE COMPLETE PLACEMENT AND FABRICATING DRAWINGS FOR ALL REINFORCING INCLUDING THE LOCATION AND SIZE OF ALL ACCESSORIES AND SUPPORTS. SECTIONS MUST BE SHOWN FOR ALL DIFFERENT CONDITIONS. CONTRACTOR SHALL NOT BEGIN EXCAVATION FOR FOUNDATIONS UNTIL REINFORCEMENT FABRICATION DRAWINGS HAVE BEEN REVIEWED AND APPROVED (IN WRITING) BY PEC STRUCTURAL ENGINEERING, INC. CONTRACTOR SHALL ALLOW A MINIMUM OF 2 WEEKS FOR PEC TO REVIEW EACH SUBMITTAL.
11. IN HOT WEATHER, COMPLY WITH ACI 305.
12. IN COLD WEATHER, COMPLY WITH ACI 306.
13. FORMWORK SHALL COMPLY WITH ACI 347.
14. ALL CONCRETE WORK SHALL CONFORM WITH THE FOLLOWING:
    ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
    ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
    ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
    CRSI "MANUAL OF STANDARD PRACTICE"
15. MINIMUM BAR LAP SPLICE SHALL BE 42 BAR DIAMETERS UNLESS OTHERWISE NOTED.
16. EXTERIOR, EXPOSED CONCRETE SHALL HAVE AIR ENTRAINMENT BETWEEN 4 AND 7 PERCENT.
17. INSTALL CORNER BARS AT JUNCTION OF ALL FOUNDATION WALLS, GRADE BEAMS, AND FOOTINGS. (CORNER BARS INSTALLED AT ALL HORIZONTAL BARS.)

SCHEDULE OF REQUIRED SPECIAL INSPECTION SERVICES

THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS AS DESCRIBED HEREIN. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 109 OF THE INTERNATIONAL BUILDING CODE (IBC).

SEE APPLICABLE IBC SECTIONS FOR EXCEPTIONS. UNLESS OTHERWISE NOTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVE TO THE ENGINEER OF RECORD THAT "EXCEPTION" CRITERIA HAVE BEEN SATISFIED. IN NO CASE SHALL THE SPECIAL INSPECTIONS BE WAIVED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL INSPECTION REQUIREMENTS.

DEFINITIONS APPLICABLE TO SPECIAL INSPECTIONS:

SPECIAL INSPECTION, CONTINUOUS – THE FULL–TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. (INSPECTOR SHALL BE PRESENT WHENEVER WORK IS BEING PERFORMED.)

SPECIAL INSPECTION, PERIODIC – THE PART–TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PREFORMED AND AT THE COMPLETION OF THE WORK. (AT A MINIMUM, PERIODIC SPECIAL INSPECTIONS SHALL BE PERFORMED WEEKLY.)

STRUCTURAL OBSERVATION – THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS OF SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED BY SECTION 109, 1704 OR OTHER SECTIONS OF THIS CODE.

REQUIRED VERIFICATION AND SPECIAL INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	–
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	–	X

REQUIRED VERIFICATION AND SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	–	X	ACI 318: 3.5, 7.1–7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	–	–	AWS D1.4, ACI 318: 3.5.2	–
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	–	–	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	–	X	ACI 318: CH. 4, 5.2–5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–	ASTM C 172, ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI 318: 5.11–5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	X	–	ACI 318: 18.20 ACI 318: 18.18.4	–
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC–FORCE–RESISTING SYSTEM	X			
9. ERECTION OF PRECAST CONCRETE MEMBERS.	–	X	ACI 318: CH. 16	–
10. VERIFICATION OF IN–SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	–	X	ACI 318: 6.2	–
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	–	X	ACI 318: 6.1.1	–

PEC STRUCTURAL ENGINEERING, INC.
SCOPE OF WORK

PEC STRUCTURAL ENGINEERING, INC.'S (PEC) SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO THE ANALYSIS OF THE STRUCTURAL FRAMING SPECIFICALLY IDENTIFIED ON PEC'S PROJECT DRAWINGS. PEC IS NOT RESPONSIBLE FOR ANY OTHER ASPECT OF THIS PROJECT OTHER THAN THE DESIGN OF THE STRUCTURAL FRAMING SPECIFICALLY IDENTIFIED ON PEC'S PROJECT DRAWINGS. PEC IS NOT RESPONSIBLE FOR STRUCTURAL FRAMING NOT IDENTIFIED OR DISCUSSED ON PEC'S PROJECT DRAWINGS NOR IS PEC RESPONSIBLE FOR EXISTING STRUCTURAL DESIGN NOT DIRECTLY AFFECTED BY PEC'S RECOMMENDED STRUCTURAL REINFORCING.

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PEC PROJECT NO.:	18–148
CAD FILE:	S1.0.DWG
ENGINEER:	JCP

ALABAMA LICENSED No. 27084 PROFESSIONAL ENGINEER 12-6-19 JOHNATHAN POWELL

RESPONSIBLE P.E.: **JOHNATHAN POWELL, P.E.**	SUPERVISOR: **JOHNATHAN POWELL, PE**	DESIGNER: **CHRIS TERRY**	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130–3050	SHEET TITLE	ROUTE
DATE: 08–21–2019	DATE: 08–21–2019	DATE: 08–21–2019	(2) DATE: 12–06–2019		GENERAL NOTES AND SCHEDULES	HUNTSVILLE SPRING BRANCH GREENWAY

12–6–19

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
TAPHV–TA18(933)	2019	15

Civil Engineering | Land Surveying | Landscape Architecture
Environmental | Water Resources | Laser Scanning + Modeling

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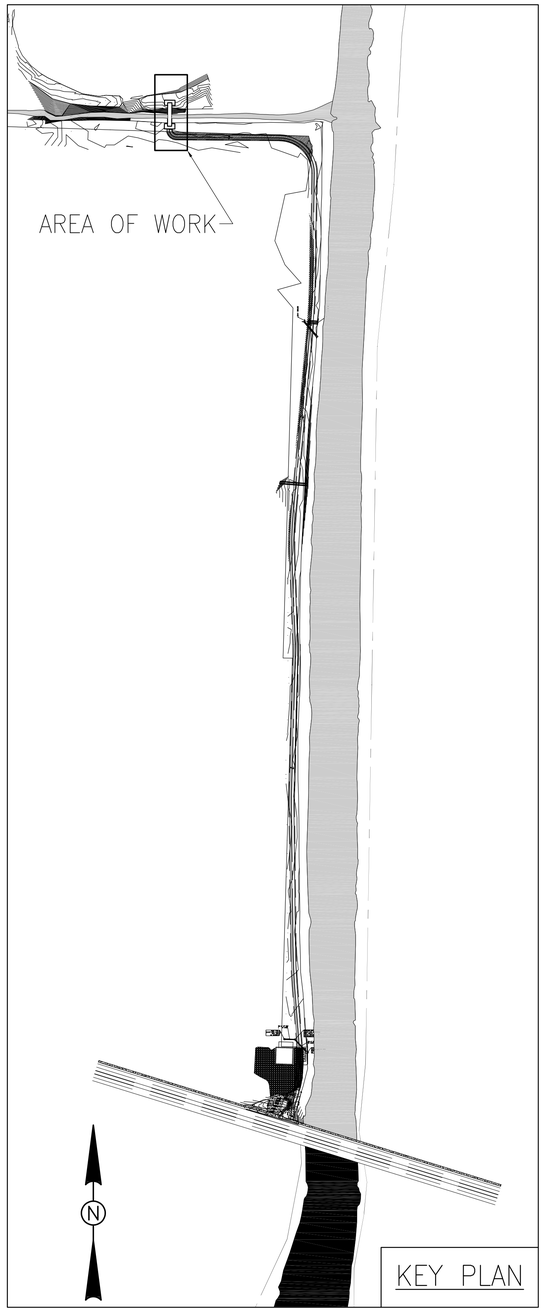
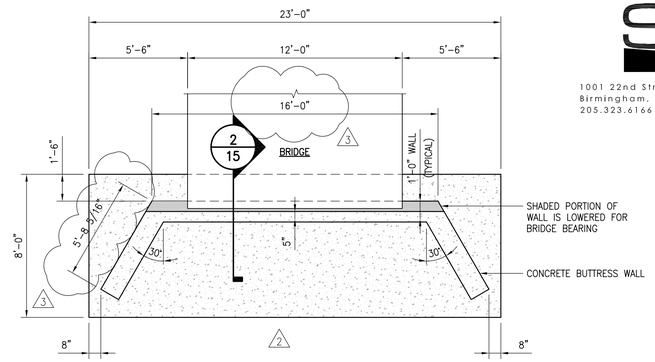


KEY PLAN



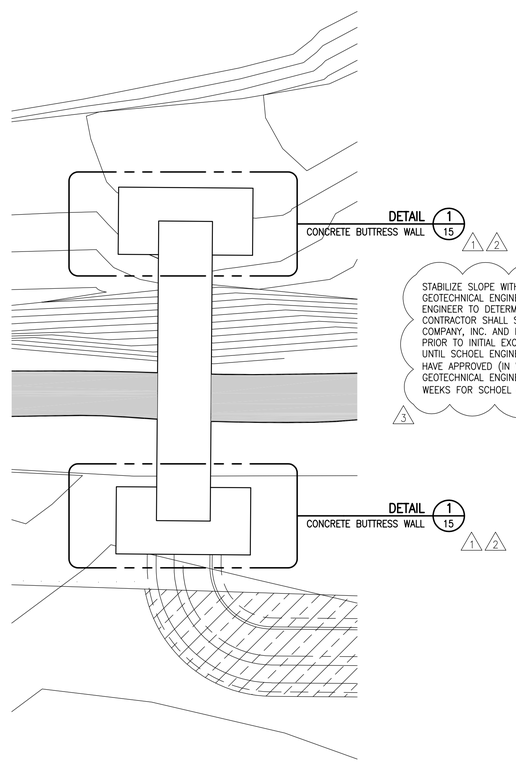
CONCRETE BUTTRESS WALL

DETAIL 1/15

1/4" = 1'–0"

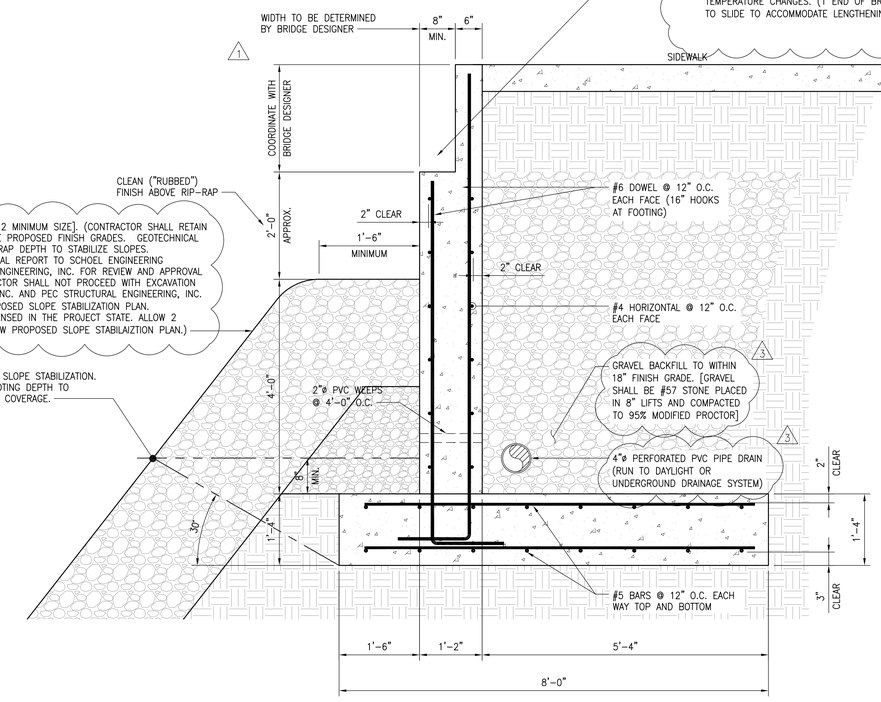
NOTE:
ATTACHMENT OF BRIDGE TO BUTTRESS SHALL BE DESIGNED BY BRIDGE DESIGNER. CONTRACTOR SHALL COORDINATE REQUIRED EMBEDS WITH CONCRETE ELEVATIONS. (ALL EMBEDS AND ANCHORS SHALL BE HOT DIPPED GALVANIZED. REPAIR WELDS WITH ZINC RICH COLD SPRAY GALVANIZING PAINT.)

NOTE:
CONNECTION DESIGN SHALL ACCOMMODATE ANTICIPATED TEMPERATURE CHANGES. (1 END OF BRIDGE MUST BE ABLE TO SLIDE TO ACCOMMODATE LENGTHENING/SHORTENING.)



BRIDGE PLAN

SCALE: 1/16" = 1'–0"



CONCRETE BUTTRESS WALL SECTION

DETAIL 2/15

3/4" = 1'–0"

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DATE: 08–21–2019	DATE: 08–21–2019	DATE: 08–21–2019	3 DATE: 01–24–2020		BRIDGE DETAILS	HUNTSVILLE SPRING BRANCH GREENWAY

ALABAMA LICENSED No. 27084 PROFESSIONAL ENGINEER JONATHAN POWELL 1-24-20

1–27–20