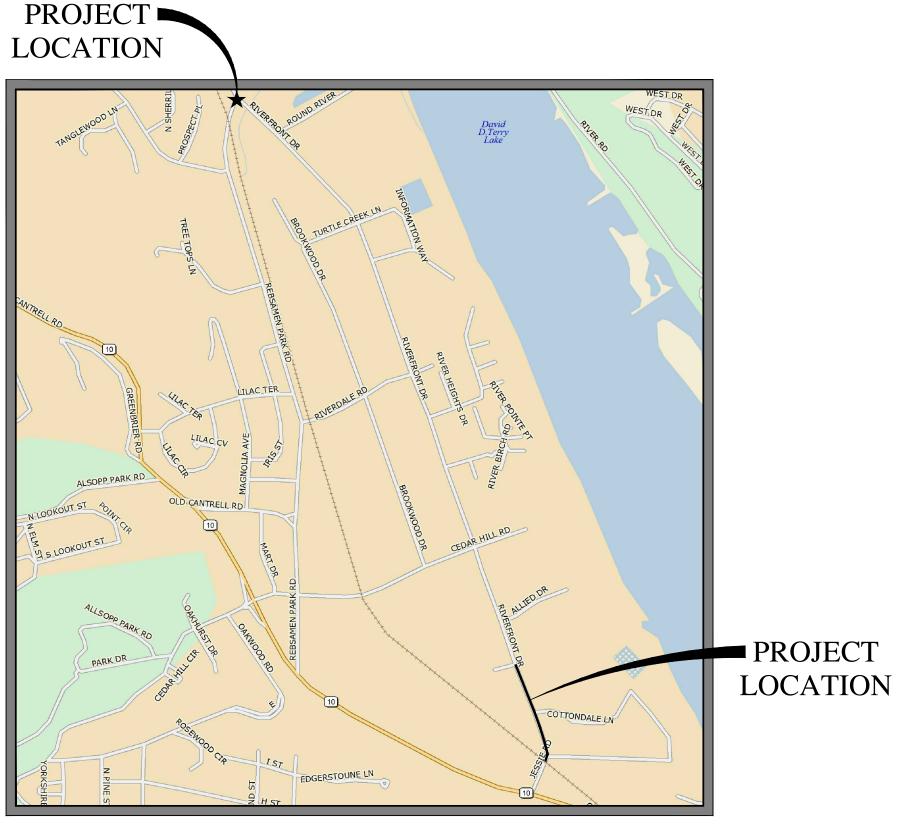


LOCATION MAP

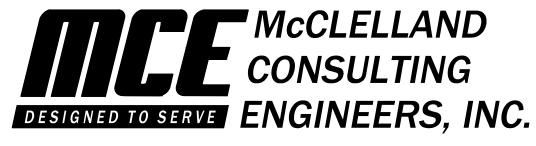
ARKANSAS RIVER TRAIL **RIVERFRONT DRIVE TRAIL** PROJECT IMPROVEMENTS LITTLE ROCK, ARKANSAS

ArDOT JOB NO. 061490 F.A.P. TAPC-9253 (75) AR RIVER TRAIL RIVERFRONT DR. (LR) (TAP-15) (S) PULASKI COUNTY



VICINITY MAP

JUNE, 2018 MCE PROJECT NO. LR17-5758

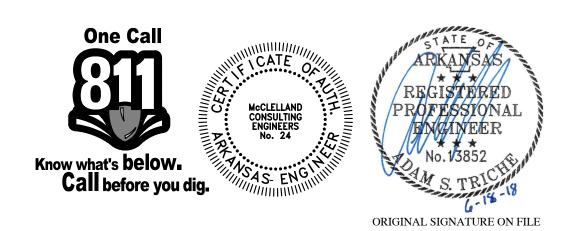


1810 N. College Fayetteville, AR 72702 PH# 479-443-2377

7302 Kanis Rd. Little Rock, AR 72204 PH# 501-371-0272

http://www.mce.us.com

4606 S. Garnett Rd. Ste. 401 Tulsa, OK 74146 PH# 918-619-6803

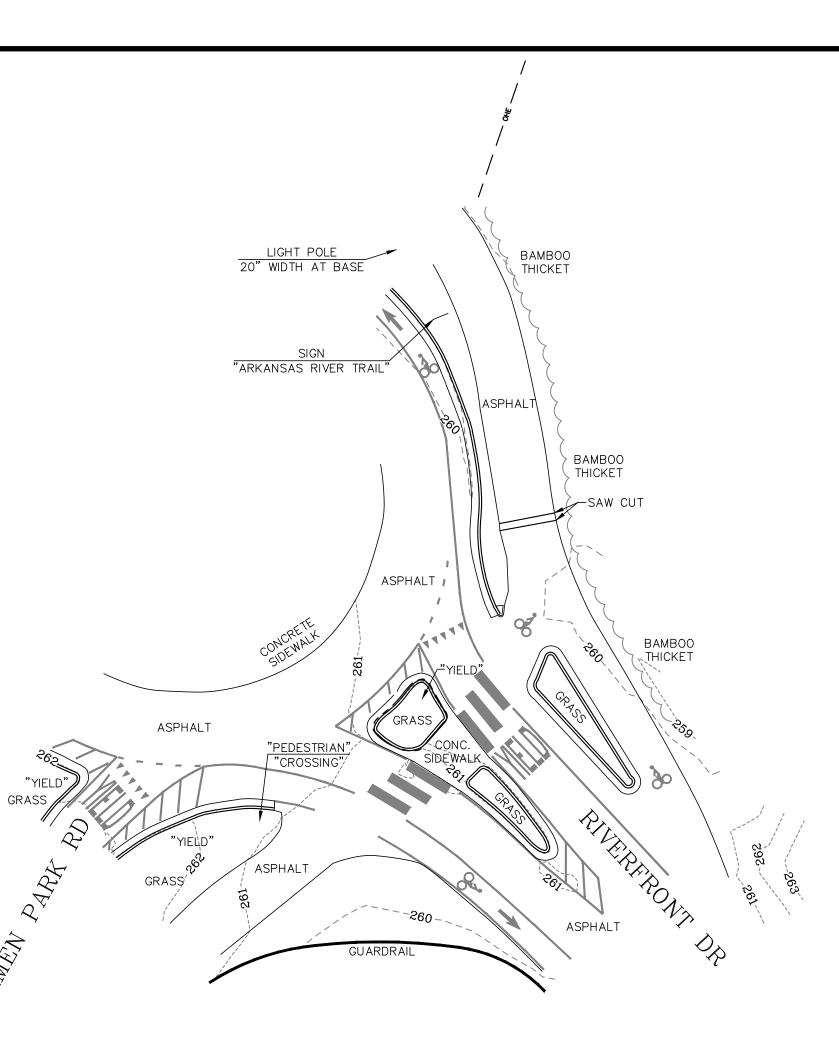


INDEX TO DRAWINGS

1. COVER SHEET 2. PROJECT OVERVIEW I 3. PROJECT OVERVIEW II 4. TOPOGRAPHIC SURVEY 5. TOPOGRAPHIC SURVEY 6. TOPOGRAPHIC SURVEY 7. DEMOLITION & EROSION CONTROL PLAN I 8. DEMOLITION & EROSION CONTROL PLAN II 9. SITE LAYOUT I 10. SITE LAYOUT II 11. GRADING & DRAINAGE PLAN I 12. GRADING & DRAINAGE PLAN II 13. HAWK SIGNAL PLAN 14. HAWK SIGNAL NOTES **15. MISCELLANEOUS DETAILS I** 16. MISCELLANEOUS DETAILS II **17. LANDSCAPE PLAN I** 18. LANDSCAPE PLAN II SD-6 HEAVY DUTY PULL BOX **SD-8 SIGNAL HEAD PLACEMENT SD-9 SERVICE POINT** SD-11 STEEL POLE WITH MAST ARM SD-15 SOLAR POWERED FLASHING BEACON INSTALLATION







GRAS

REDOS AMEN

SURVEYOR'S NOTES: CONTOUR INTERVAL = 1 FOOT. VERIFIED.

NO STATEMENT IS MADE CONCERNING SUBSURFACE CONDITIONS.

${\mathbb A}$	SURVEY CONTROL MONUM (TYPE AS NOTED)
D	STORM WATER MANHOLE
S	SANITARY SEWER MANHOL
¢	LIGHT POLE
വ	POWER POLE
÷	GUY LINE
TPED	TELEPHONE PEDESTAL
℃	GAS VALVE
×	WATER VALVE
Югн	FIRE HYDRANT
G	TREE (TYPE AS NOTED)
\bigcirc	BUSH
	SIGN
-••	POST OR POLE (TYPE AS NOTED)
EB	ELECTRIC BOX

MCE CP# 11

MCE CP# 12

HORIZONTAL COORDINATES FOR THIS PROJECT ARE ARKANSAS STATE PLANE NORTH ZONE AND ELEVATIONS ARE NAVD88 BASED ON THE P.A.G.I.S REFERENCE STATION.

THIS IS A TOPOGRAPHIC SURVEY ONLY AND IN NO WAY SHOULD BE INTERPRETED AS A PROPERTY BOUNDARY SURVEY. ANY PROPERTY LINES SHOWN ARE FOR REFERENCE ONLY AND HAVE NOT BEEN

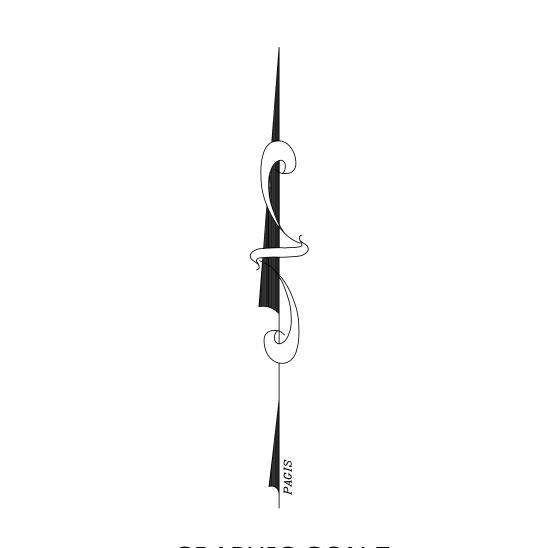
FIELD WORK FOR THIS SURVEY WAS COMPLETED JULY, 2017.

BURIED UTILITIES AND SUBSURFACE STRUCTURES ARE SHOWN BASED ON VISUAL INSPECTION OF MANHOLES AND OTHER SURFACE FEATURES. McCLELLAND CONSULTING ENGINEERS HAS ACCURATELY DEPICTED THE UNDERGROUND AND SUBSURFACE FEATURES TO THE BEST OF THEIR KNOWLEDGE AND ABILITY. ANY CONSTRUCTION AT THIS SITE SHOULD ONLY BE DONE AFTER CONTACTING ARKANSAS ONE CALL AT 1-800-482-8998 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

LEGEND

MONUMENT NHOLE MANHOLE

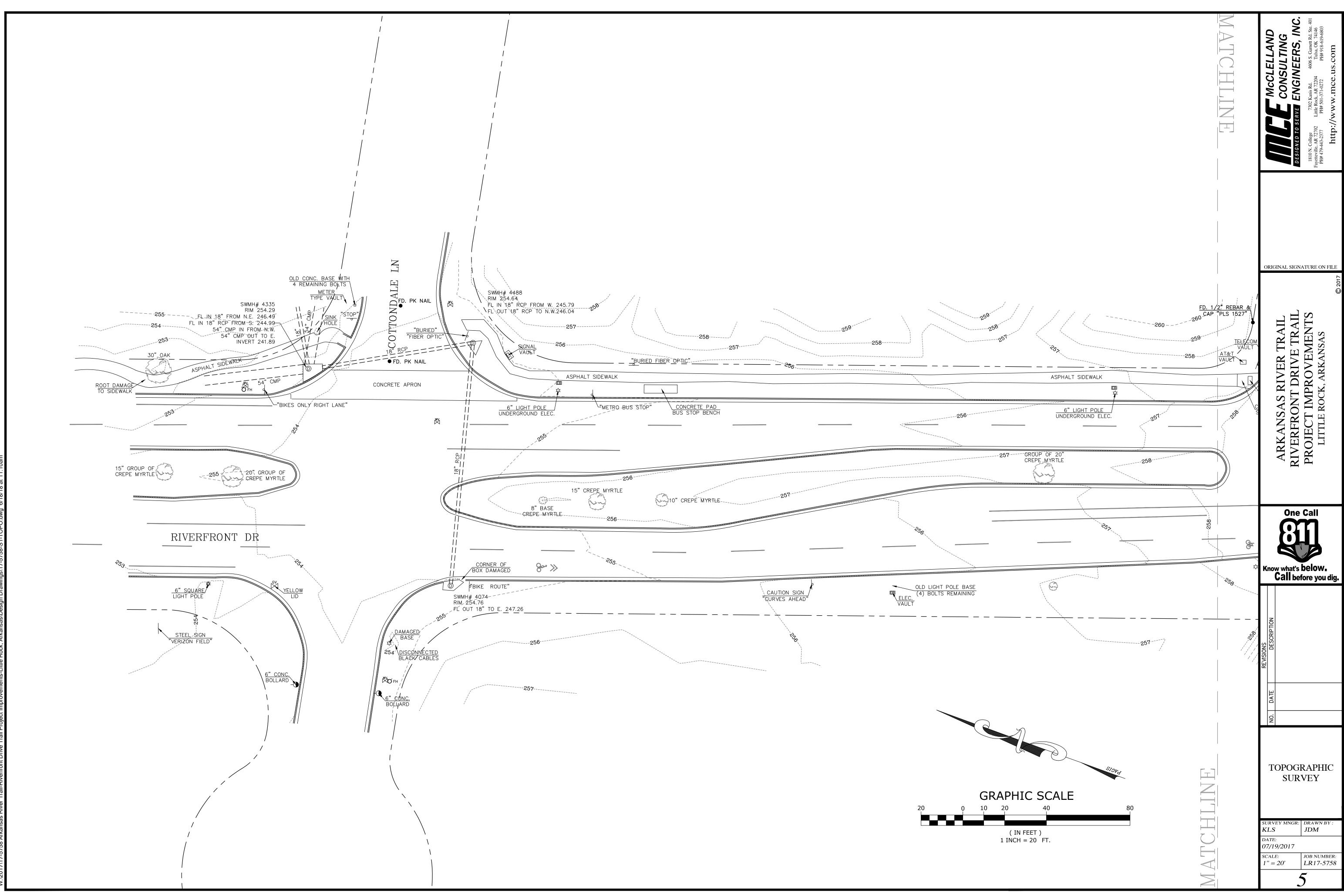
CURB LINE OHE OHE OVERHEAD ELECTRIC LINE _____ DITCH OR STREAM LINE

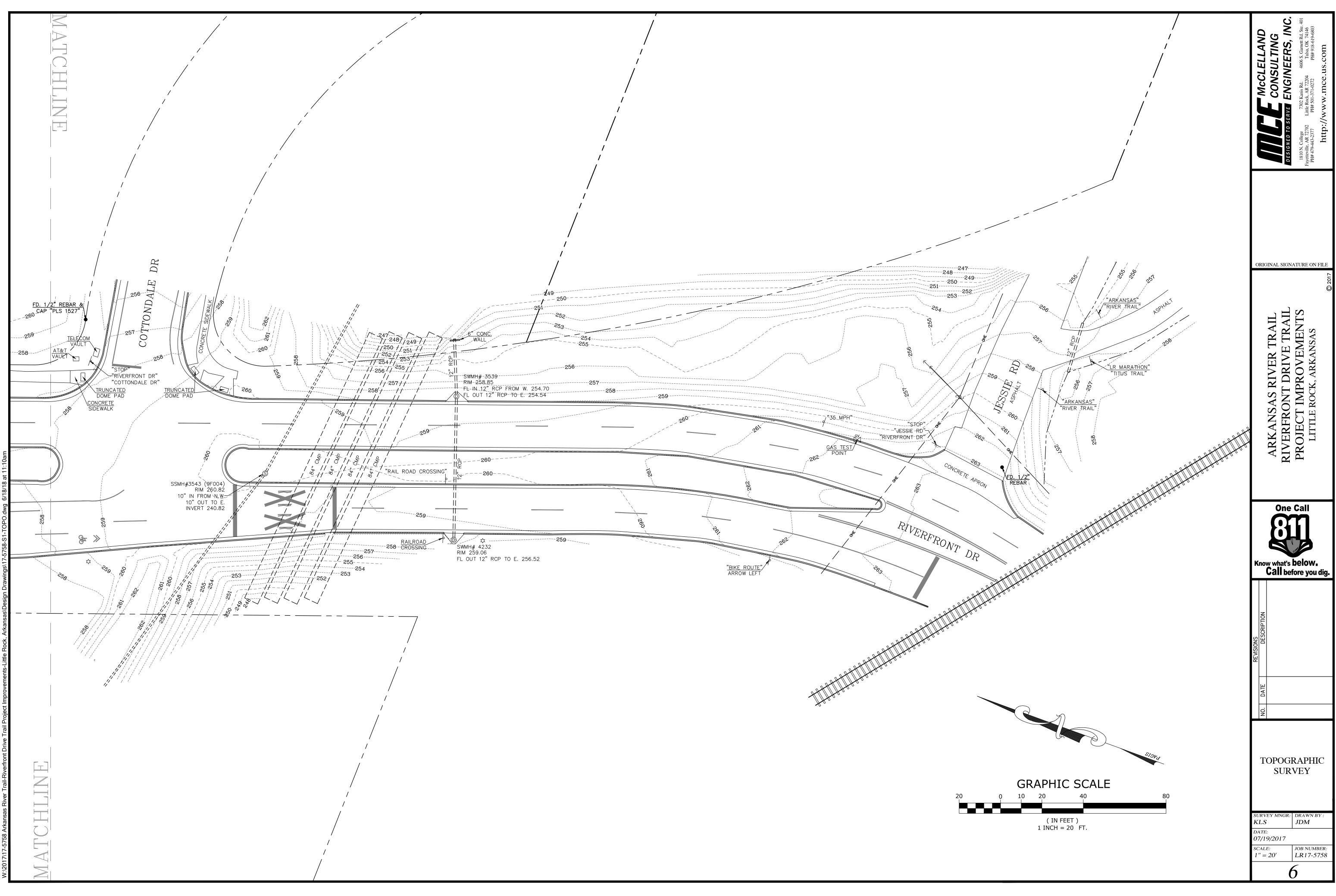


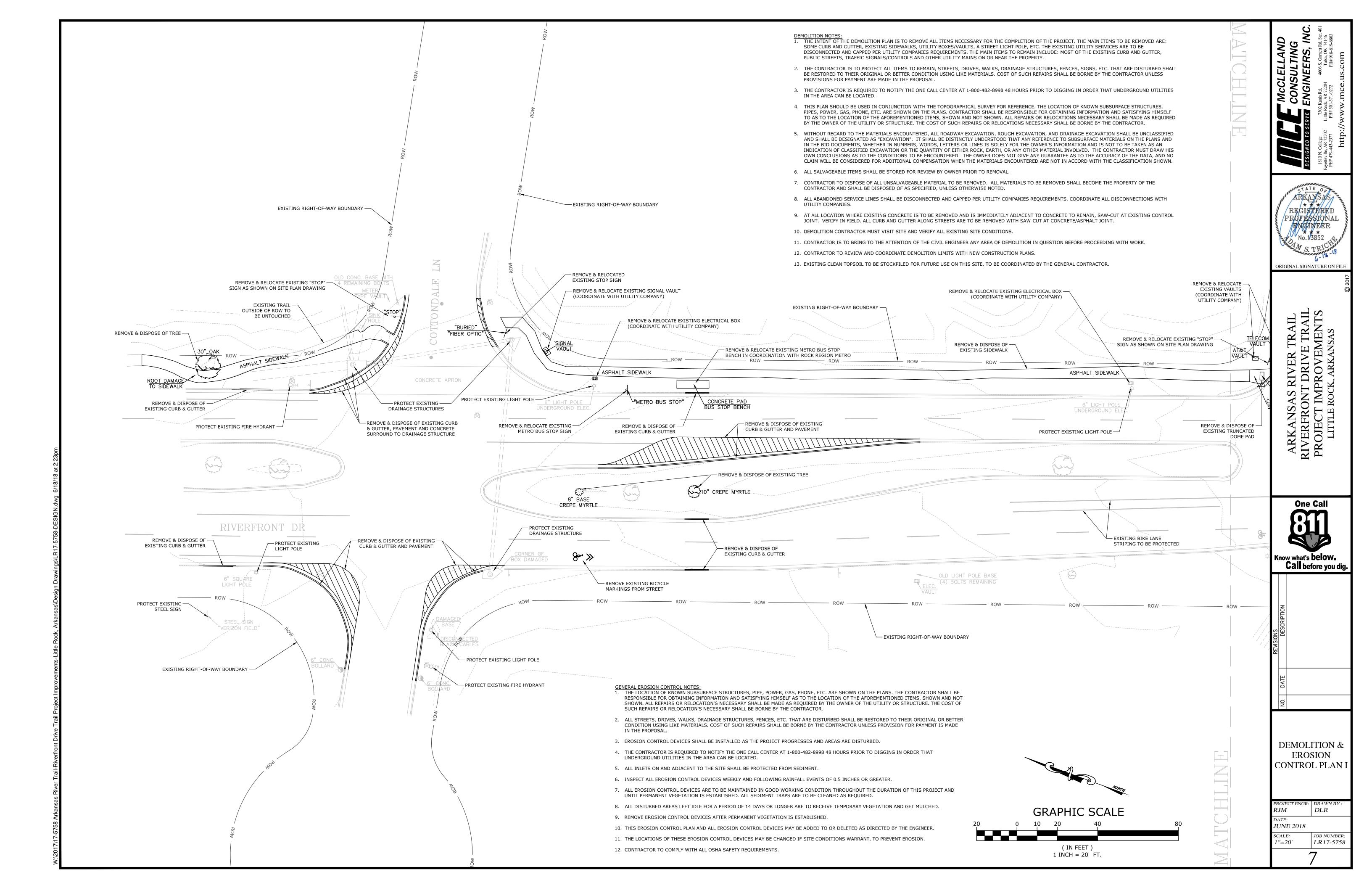
GRAPHIC SCALE 10 20 20 (IN FEET) 1 INCH = 20 FT.

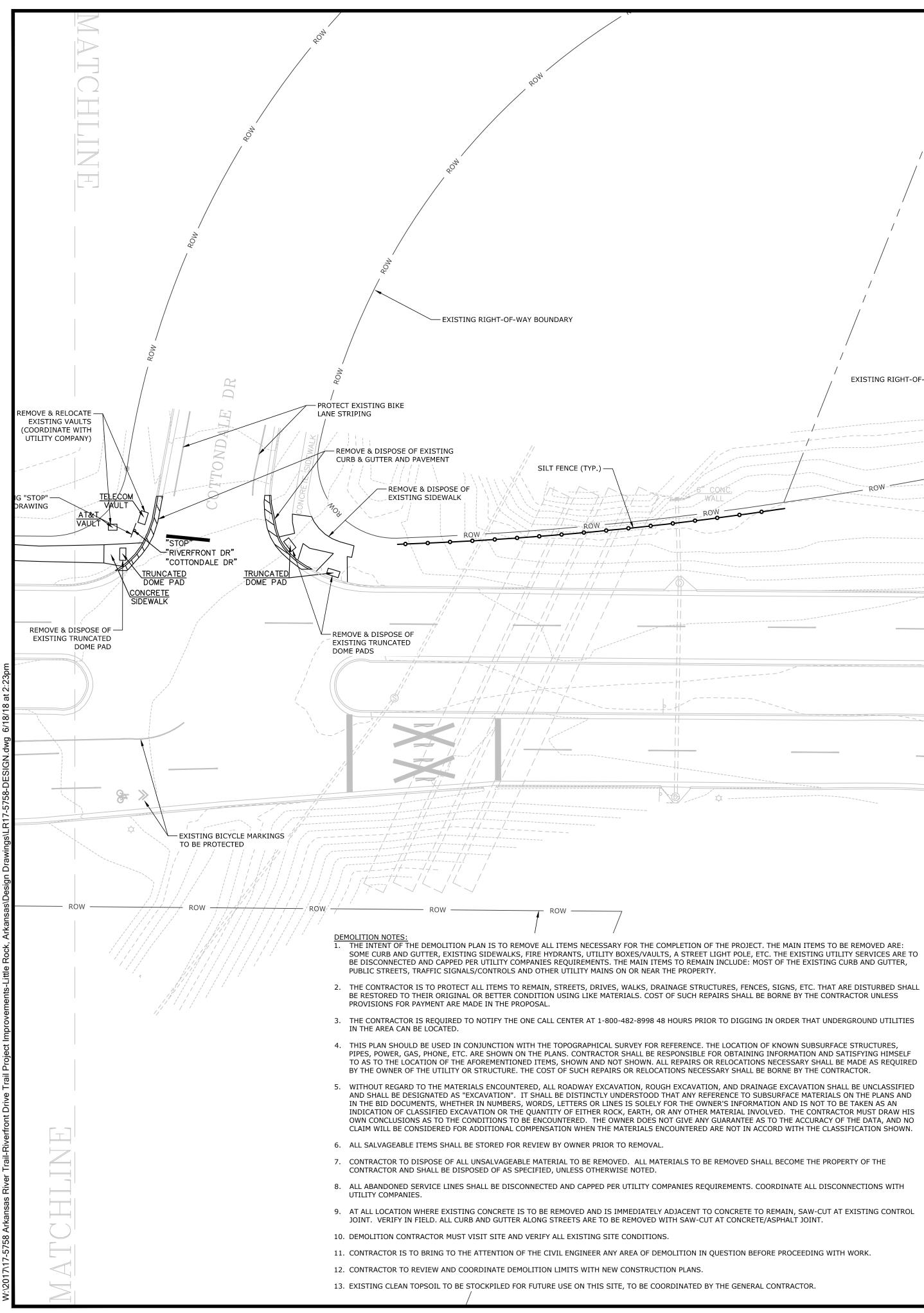
		CONTROL DAT	Ā	
Point #	Northing	Easting	Elevation	Description
10	156642.3120	1220753.3020	253.53	CONTROL POINT
11	160765.9070	1218762.8210	263.49	CONTROL POINT
12	160649.3720	1218718.3110	263.80	CONTROL POINT

K DA O',			REVISIONS	K	0	
LS ATE 7/1 CAL	Т	NO. DATE	DESCRIPTION	no	RIC	
: 9/20					ARKANSAS RIVER TRAIL	
17 17	OG UR			hat's	RIVERFRONT DRIVE TRAIL	DESIGNED TO SERVE ENGINEERS, INC.
JDI	RAI VE`			Cal belo fore	PROJECT IMPROVEMENTS	1810 N. College 7302 Kanis Rd. 4606 S. Garnett Rd. Ste. 401
wn B M NUMI 17-5'	PHI Y					Fayetteville, AR 72702 Little Rock, AR 72204 Tulsa, OK 74146 PH# 479-443-2377 PH# 501-371-0272 PH# 918-619-6803
3ER:	C			dig.	FLE 2012 ©	http://www.mce.us.com







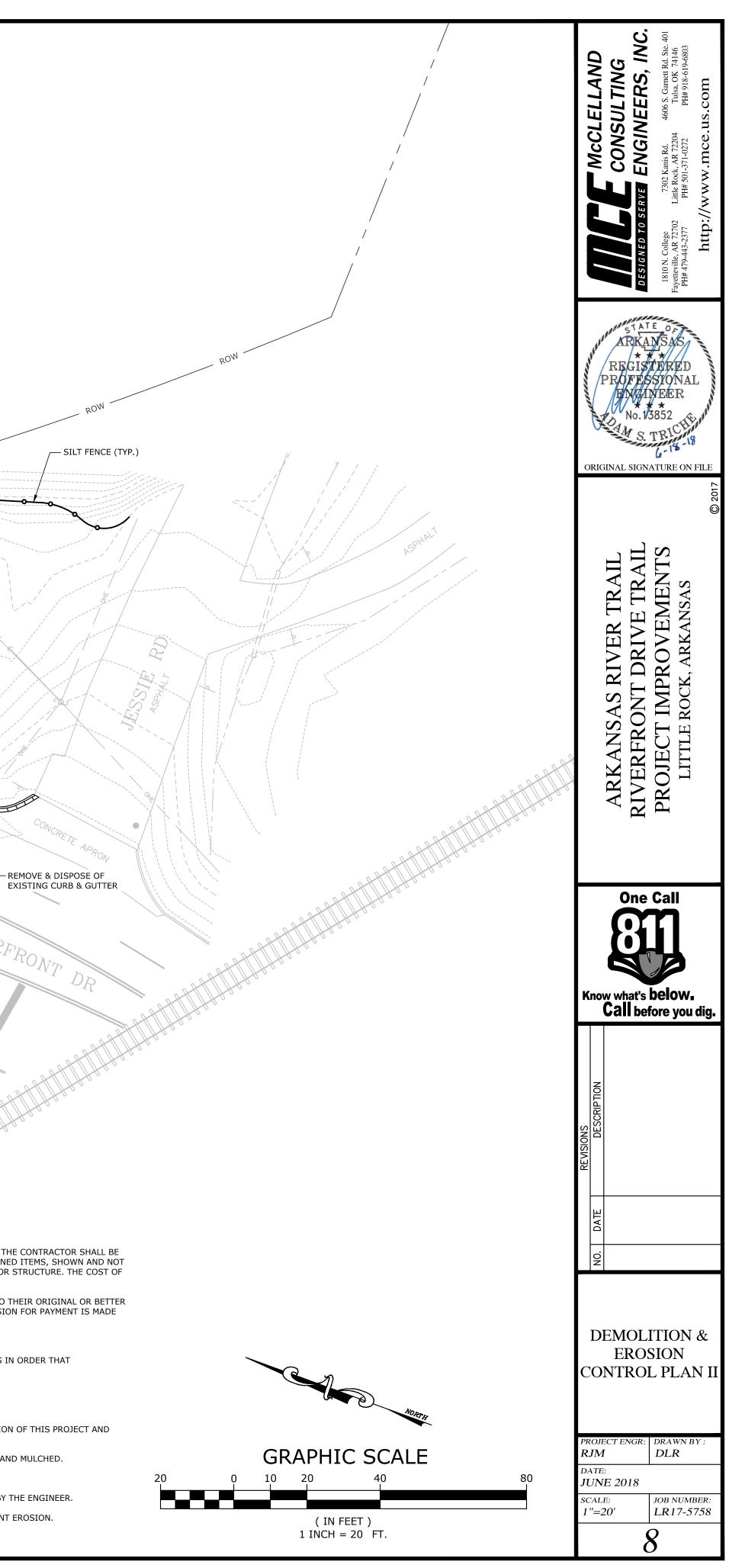


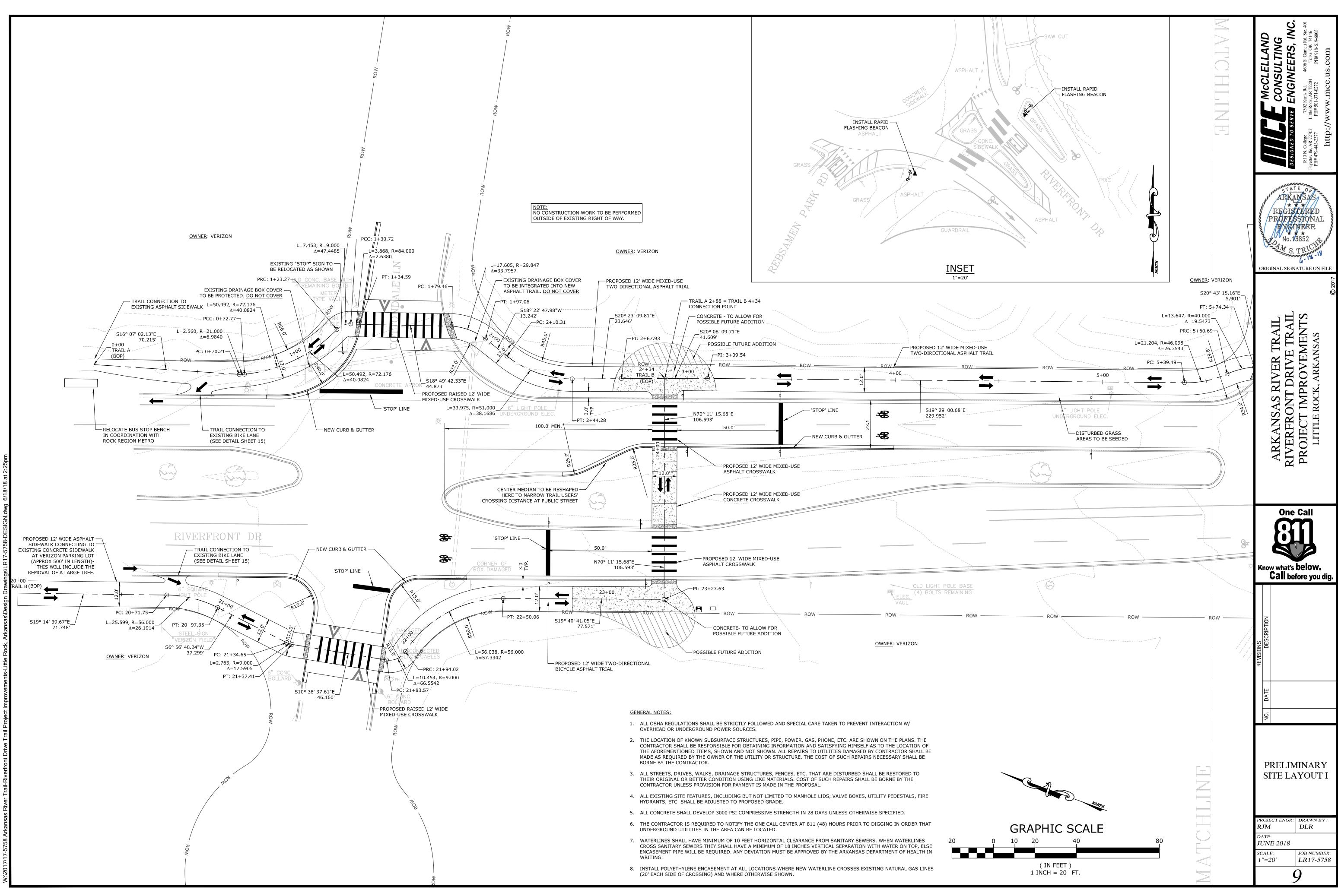
EXISTING RIGHT-OF-WAY BOUNDARY -

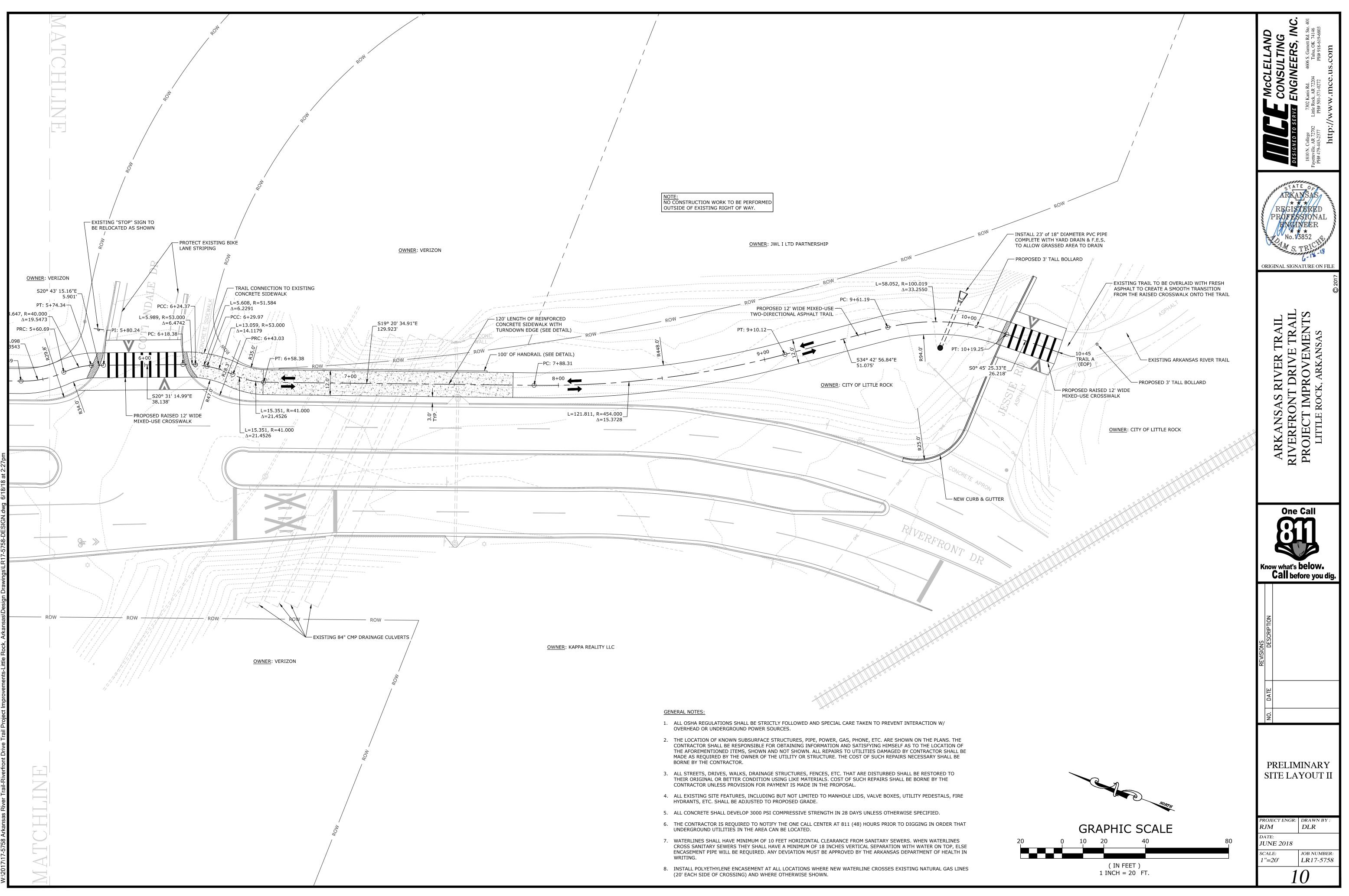
GENERAL EROSION CONTROL NOTES: 1. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATION'S NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATION'S NECESSARY SHALL BE BORNE BY THE CONTRACTOR.

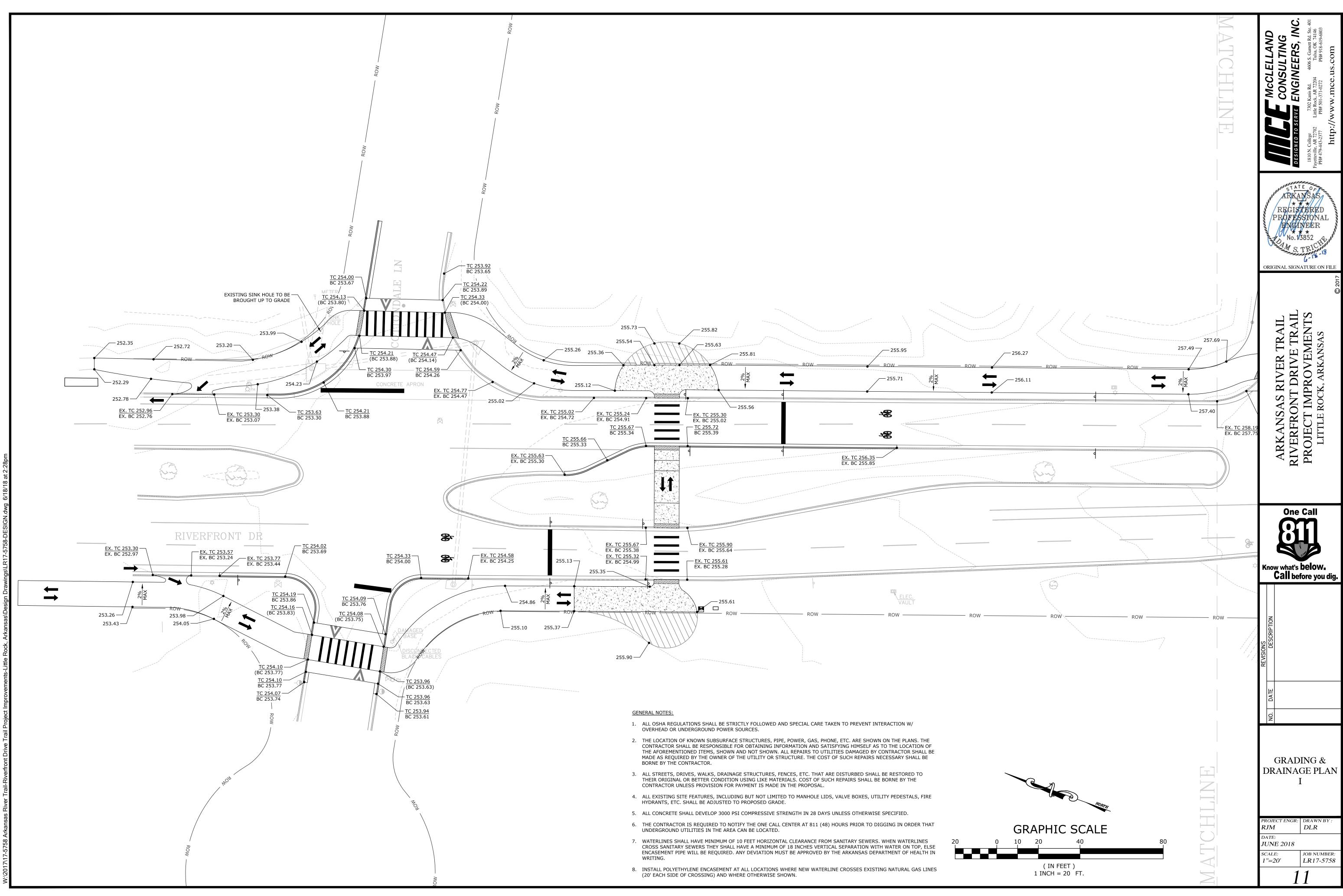
RIVERFRONT .

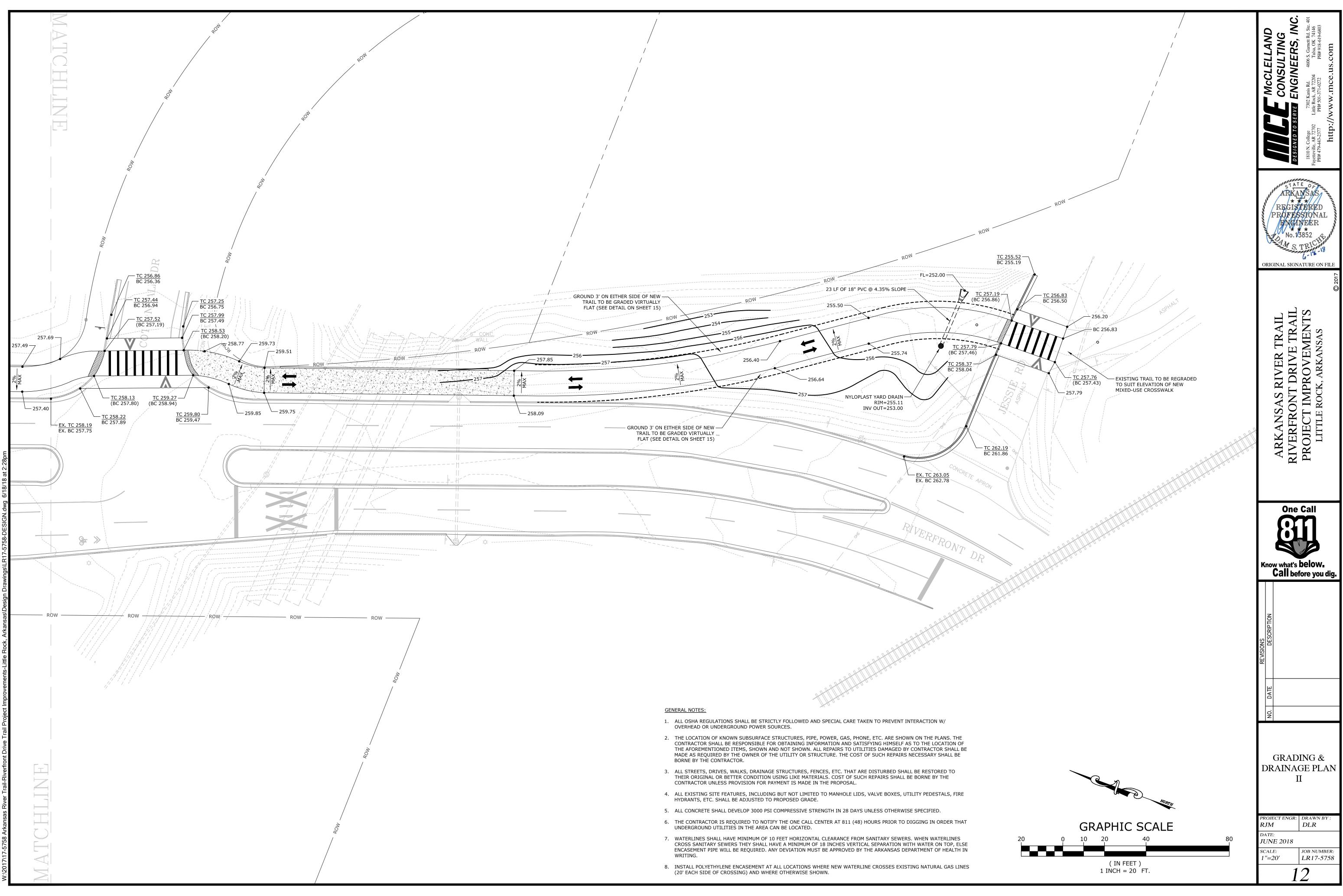
- 2. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
- 3. EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
- 4. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- 5. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
- 6. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FOLLOWING RAINFALL EVENTS OF 0.5 INCHES.
- 7. ALL EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED. ALL SEDIMENT TRAPS ARE TO BE CLEANED AS REQUIRED.
- 8. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
- 9. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.
- 10. THIS EROSION CONTROL PLAN AND ALL EROSION CONTROL DEVICES MAY BE ADDED TO OR DELETED AS DIRECTED BY THE ENGINEER.
- 11. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
- 12. CONTRACTOR TO COMPLY WITH ALL OSHA SAFETY REQUIREMENTS.

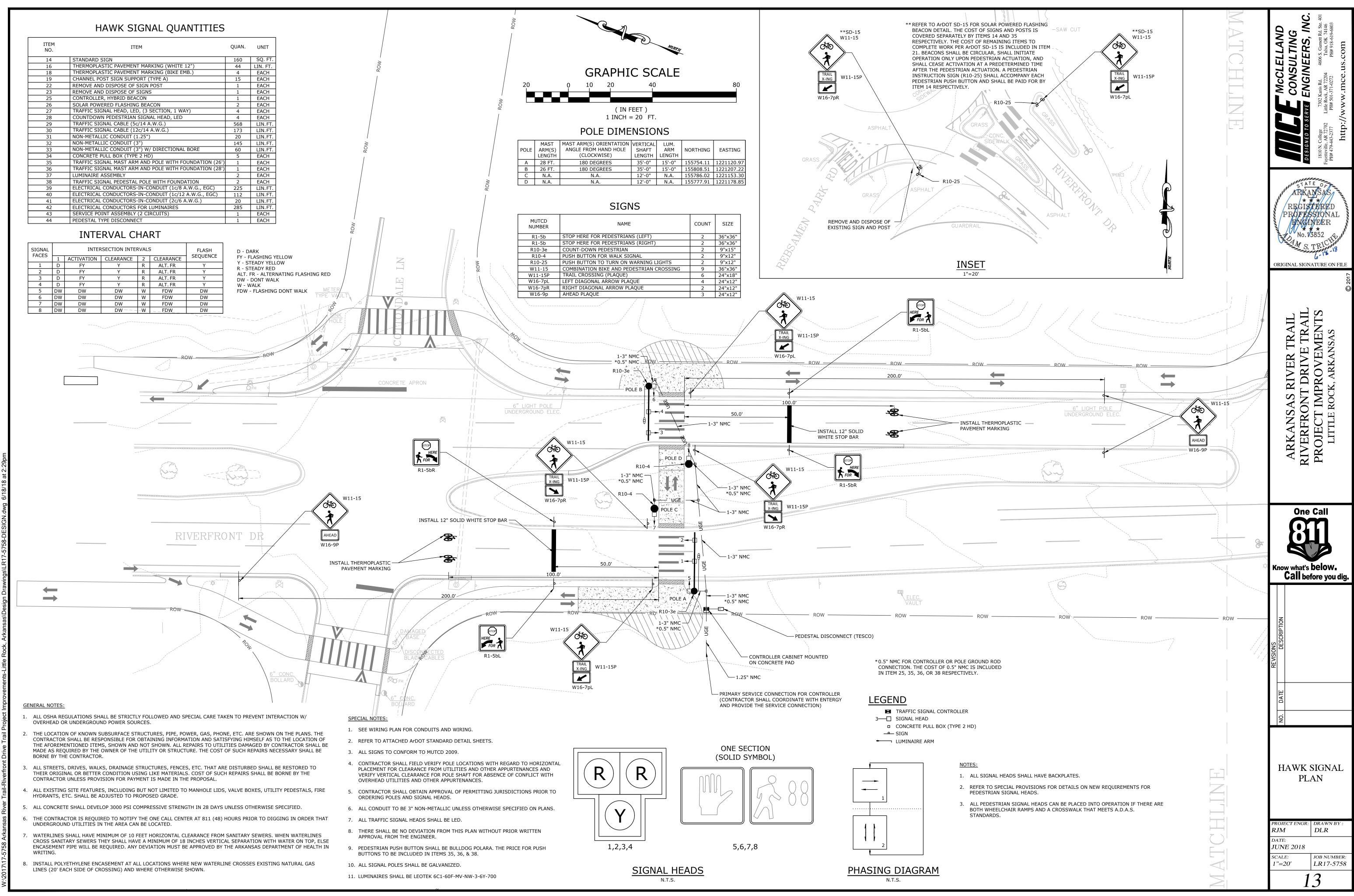


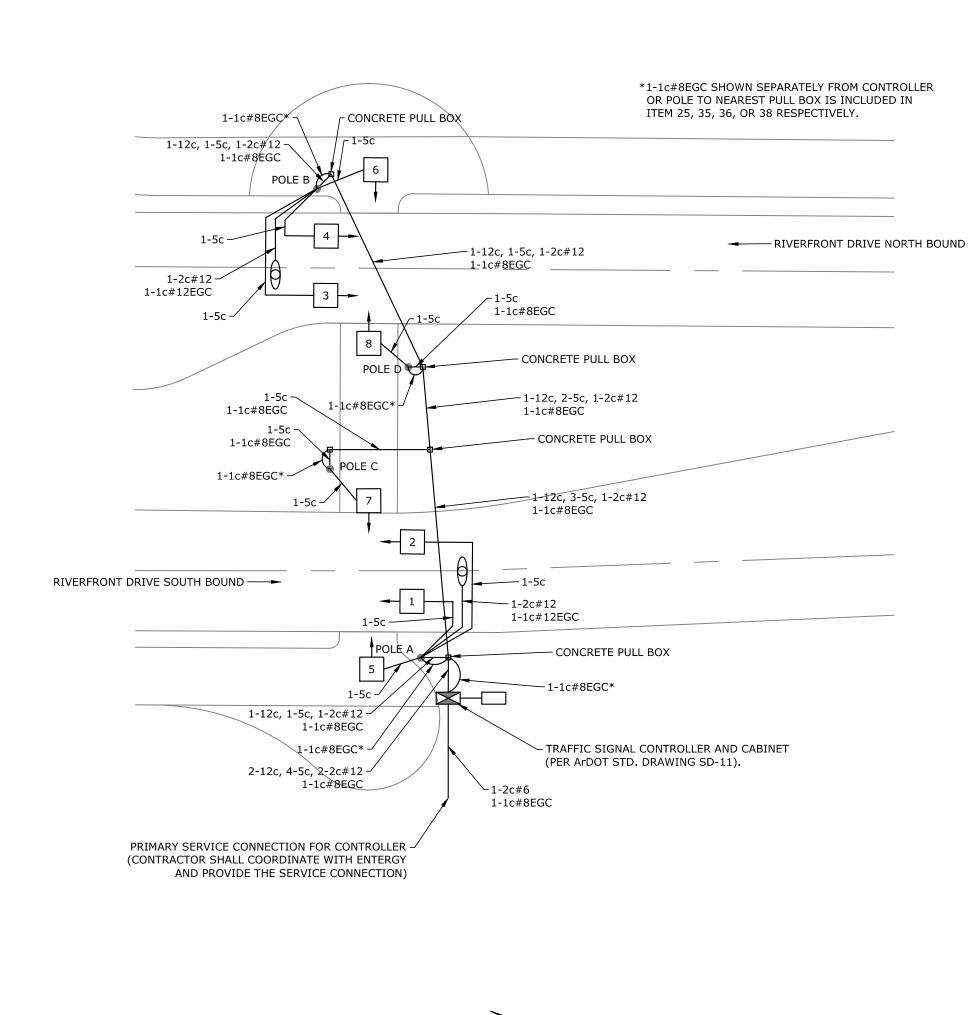












WIRING DIAGRAM N.T.S.

GENERAL NOTES:

- 1. ALL OSHA REGULATIONS SHALL BE STRICTLY FOLLOWED AND SPECIAL CARE TAKEN TO PREVENT INTERACTION W/ OVERHEAD OR UNDERGROUND POWER SOURCES.
- 2. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC, ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS TO UTILITIES DAMAGED BY CONTRACTOR SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
- 3. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
- 4. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS UNLESS OTHERWISE SPECIFIED.
- 5. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- 6. WATERLINES SHALL HAVE MINIMUM OF 10 FEET HORIZONTAL CLEARANCE FROM SANITARY SEWERS. WHEN WATERLINES CROSS SANITARY SEWERS THEY SHALL HAVE A MINIMUM OF 18 INCHES VERTICAL SEPARATION WITH WATER ON TOP, ELSE ENCASEMENT PIPE WILL BE REQUIRED. ANY DEVIATION MUST BE APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH IN WRITING
- 7. INSTALL POLYETHYLENE ENCASEMENT AT ALL LOCATIONS WHERE NEW WATERLINE CROSSES EXISTING NATURAL GAS LINES (20' EACH SIDE OF CROSSING) AND WHERE OTHERWISE SHOWN.
- 8. GROUND DISTURBED DURING CONSTRUCTION IS TO BE VEGETATED WITH BERMUDA SOD. CONTRACTOR TO TEMPORARILY IRRIGATE SOD UNTIL FULLY ESTABLISHED.

<u>CONDUIT</u>:

- WHERE A TRENCH IS CUT THROUGH THE SURFACED PARKING SHOULDER, MEDIAN, DRIVEWAYS, OR SIDEWALK FOR LAYING CONDUIT, THE BASE AND SURFACING SHALL BE REPLACED WITH SIMILAR MATERIALS EQUAL IN APPEARANCE AND QUALITY TO THE ORIGINAL CONSTRUCTION. REPLACING BASE AND SURFACE WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO INSTALLING CONDUIT. ALL CONDUIT WILL HAVE MINIMUM COVER OF 18 in.
- 2. WHEN BORING IS USED FOR UNDER PAVEMENT CONDUIT INSTALLATIONS, MAXIMUM ALLOWABLE OVERCUT SHALL BE 1 in. IN DIAMETER. CONDUIT UNDER NEWLY POURED PAVEMENT SHALL BE BORED.
- WHEN CONDUITS ARE BORED OR PUSHED, THE VERTICAL AND HORIZONTAL TOLERANCES SHALL NOT EXCEED 18 in. AS MEASURED FROM THE INTENDED TARGET POINT.
- A SAW CUT TRENCH DETAIL FOR INSTALLATION OF CONDUIT UNDER EXISTING PAVEMENT SHALL ONLY BE USED AT LOCATIONS WHERE CONDUIT CANNOT BE JACKED OR BORED. THE USE OF SAWCUT TRENCH SHALL ONLY BE MADE AT LOCATIONS APPROVED BY THE ENGINEER.
- THE MINIMUM BEND RADIUS ON CONDUIT SHALL BE AS FOLLOWS: 3" CONDUIT 18 in.
- FOR CONDUIT RUNS IN EXCESS OF 250 ft., THE CONTRACTOR MAY INSTALL PULL BOXES AT HIS OWN EXPENSE, AT THE DISCRETION OF THE ENGINEER, FOR USE IN PULLING CABLE.
- CONTRACTOR SHALL PROVIDE PULL ROPE FOR FUTURE WIRE INSTALLATION FROM JUNCTION BOX TO JUNCTION BOX AND JUNCTION BOX TO POLE AND ALL CONDUIT.
- 8. CONDUIT SHALL BE HDPE WITH NO IN-GROUND SPLICES.

FULL ACTUATED SOLID STATE TRAFFIC SIGNAL CONTROLLER:

- 1. THE CONTRACTOR SHALL INSTALL NEW CONTROLLERS AND CABINETS MOUNTED TO POLE PER ArDOT DETAIL SHEET SD-11.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL FIELD WIRE IN THE CABINET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING AND LOGIC CHANGES NECESSARY TO ACCOMPLISH PHASE ROTATION AND SEQUENCING SHOWN ON THE PLANS.
- THE CONTROLLER ASSEMBLY SHALL BE SIEMENS M52 (OR APPROVED EQUAL) AND TEMPLE 2-PHASE CABINET (OR APPROVED EQUAL).

HIGHWAY TRAFFIC SIGNAL HEADS:

- 1. ALL TRAFFIC SIGNAL HEADS FOR THIS PROJECT SHALL BE POLYCARBONATE. ALL HEADS SHALL BE BLACK. ALL VISORS SHALL BE TUNNEL TYPE.
- ALL SIGNAL HEADS SHALL BE COVERED WITH BURLAP UNTIL PLACED INTO OPERATION. LED'S FOR

- 5. ALTERNATIVE SIGNAL HEAD MOUNTING HARDWARE MAY BE APPROVED AS DIRECTED BY THE ENGINEER.

- DIAMETER UNLESS SPECIFIED ON PLANS.

- CITY/COUNTY.

- NOTIFICATION.

TRAFFIC SIGNAL NOTES:

- TO LOAD SWITCH POWER BUSS.

- 14. LUMINAIRE ASSEMBLIES SHALL BE OF THE LEOTEK LED TYPE.

- SHOWN ON THE SIGNAL PLANS.
- IS KEYED INTO COMPETENT ROCK.

- MAY REOUIRE MODFICATION.
- SURGE PROTECTION.
- SHALL BE ATTACHED TO EACH CABLE.

- SIGNAL FACES SHALL BE FURNISHED BY THE CONTRACTOR.
- 3. SIGNAL HEADS MOUNTED ON POLES AND MAST ARMS SHALL BE LEVEL AND PLUMB.
- 4. THE CONTRACTOR SHALL PROVIDE NECESSARY MOUNTING HARDWARE TO INSURE PROPER MOUNTING OF ALL SIGNAL HEADS.

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2017) NATIONAL ELECTRICAL CODE, NFPA 101 (CURRENT EDITION) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.

2. EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND E.G.C. TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.

3. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (2c/#6 A.W.G. USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITY'S/COUNTY'S MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT, ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2c/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.

4. CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.

5. TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.

6. CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED

7. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, STANDARD DRAWINGS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

8. CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE STANDARD DRAWINGS MAY BE USED.

9. TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.

10. PAVEMENT MARKINGS SHOWN FOR REFERENCE ONLY. SEE PERMANENT PAVEMENT MARKING DETAILS.

11. FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON STANDARD DRAWING). PAYMENT WILL BE INCLUDED IN SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.

12. ALL CONCRETE PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE THREE (3") INCH

13. CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT

15. HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE. COMBINATION (COMB.) DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.

16. THE LOCAL RADIO WITH ANTENNA SHALL BE COMPATIBLE WITH THE EXISTING CLOSED LOOP COORDINATION SYSTEM IN THE

17. TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, THIRTY-EIGHT (38') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF TWENTY-ONE (21') FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL SIX (6') FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS

18. THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS SIX (6') FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO "DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE" FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.

19. AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH

20. CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.

21. CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.

22. ONE VIDEO PROGRAMMNG MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.

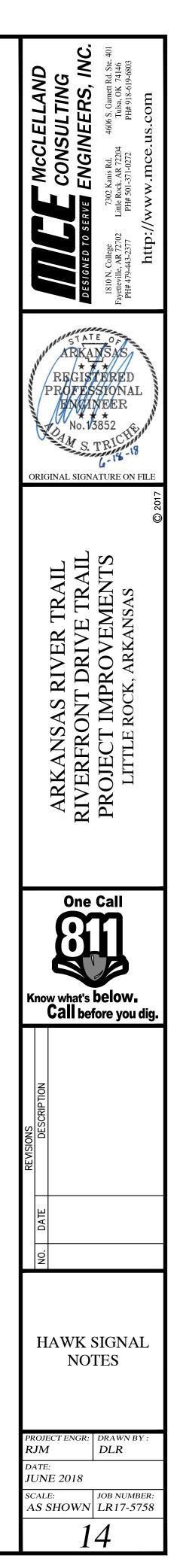
23. TRAFFIC SIGNAL CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR

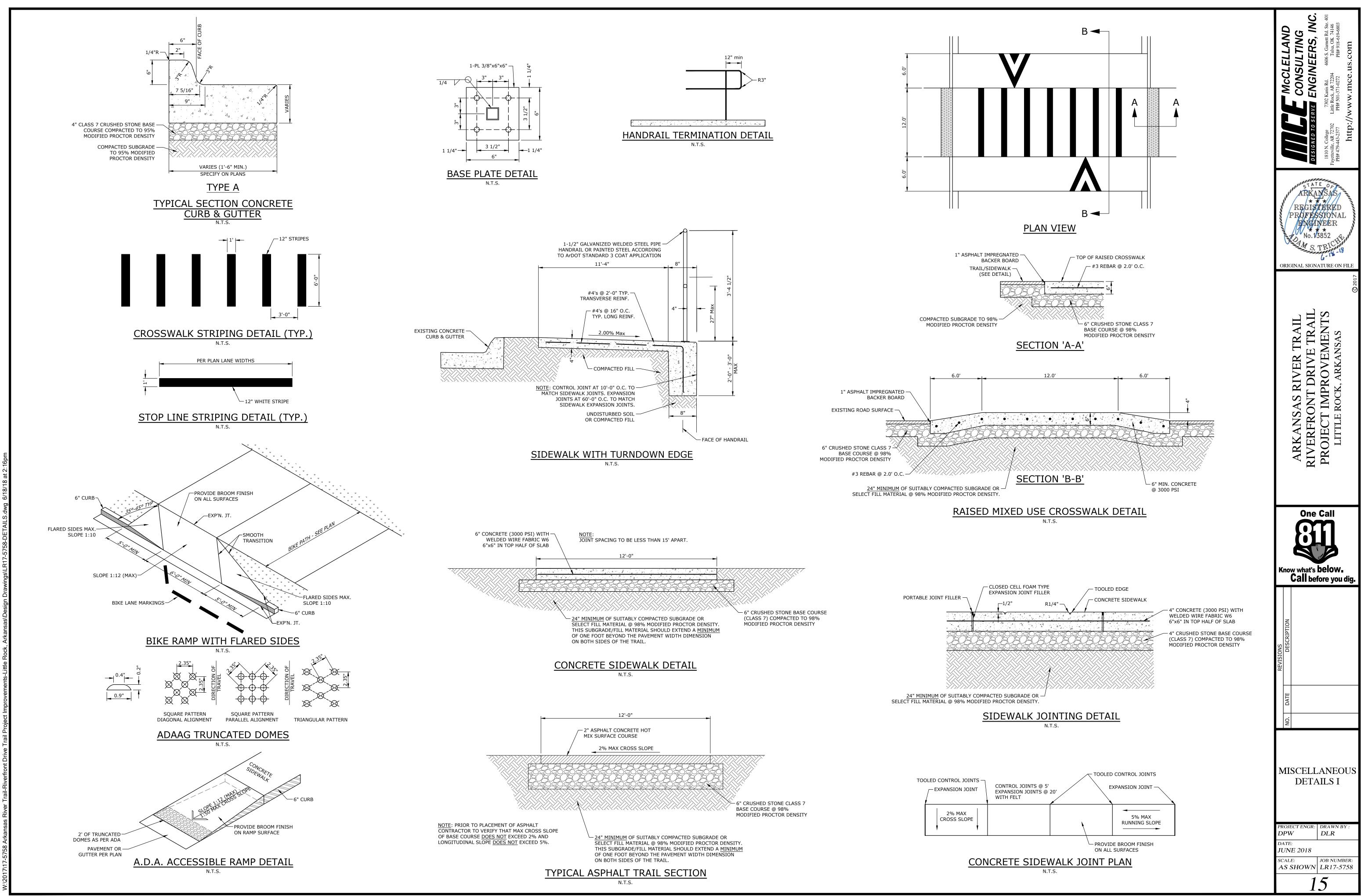
24. ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS. 25. DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS

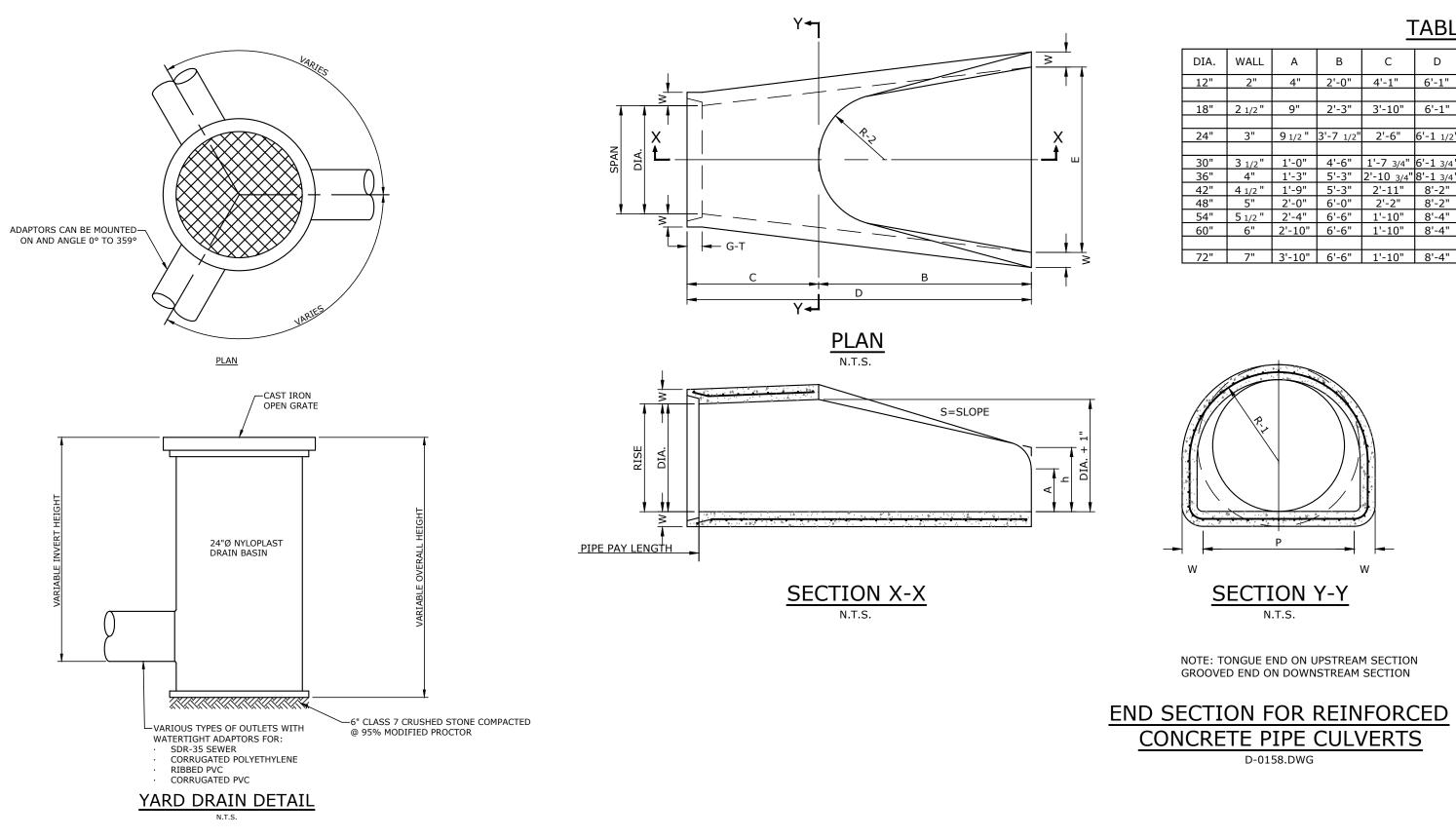
26. ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER

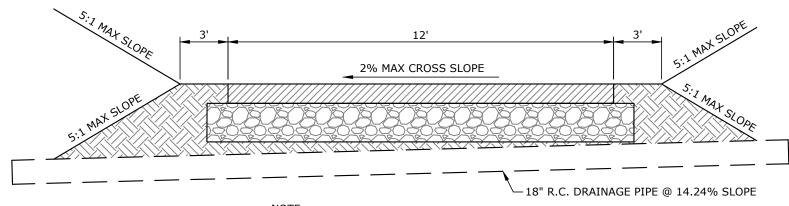
27. IN PULL BOXES, POLE BASES, JUNCTION BOXES AND CONTROLLER CABINETS, THE DIRECTION OF EACH CABLE RUN SHALL BE INDICATED BY ATTACHING A PERMANENT TAG OF RIGID PLASTIC OR NON-FERROUS METAL TO THE CONDUIT. TAGS SHALL BE EMBOSSED, STAMPED OR ENGRAVED WITH LETTERS 1/4" OR GREATER IN HEIGHT AND SECURED TO THE CONDUIT WITH NYLON OR PLASTIC TIES. IN INSTANCES WHERE THE CONDUIT OR CONDUIT ENTRANCES ARE NOT VISIBLE OR ACCESSIBLE, A DIRECTION TAG

28. THE CONTRACTOR SHALL PERFORM ALL WORK POSSIBLE THAT WILL MINIMIZE THE TIME THAT THE TRAFFIC SIGNAL IS OUT OF OPERATION. IF, IN THE OPINION OF THE ENGINEER, TRAFFIC CONDITIONS WARRANT THE CONTRACTOR SHALL PROVIDE FLAGMEN TO DIRECT TRAFFIC WHILE THE TRAFFIC SIGNAL IS OUT OF OPERATION.









CROSS DRAIN (TYPICAL) N.T.S.

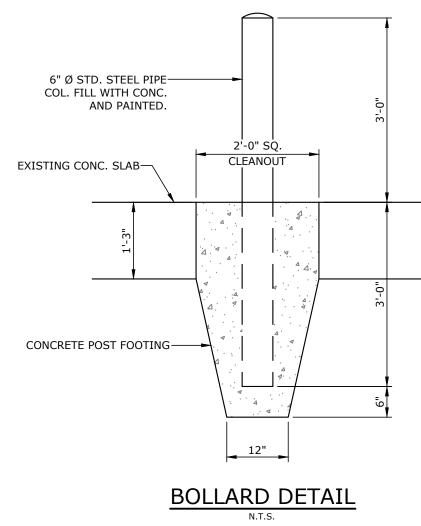
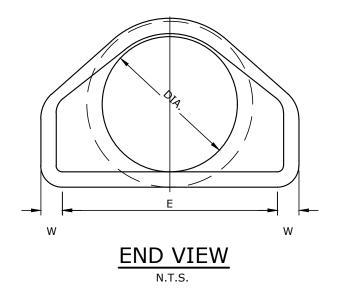


TABLE OF DIMENSIONS

	_						_				
В	С	D	E	S	DIA.+1"	Р	R-1	R-2	G-T	WT.	h
-0"	4'-1"	6'-1"	2'-0"	2.2:1	13"			9"		530	
'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	151/2"	12"	2"	1000	1'-01/2"
7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3:1	25"	33 3/16"	16 13/16"	14"	2 1/2"	1600	1'-11/2"
-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3:1	31"	37"	18 1/2"	15"	3 1/4"	1940	1'-4 5/8"
-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	3:1	37"	47 13/16"	24 5/16"	20"	3 1/2"	4100	1'-8"
-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53 7/8 "	27 1/2"	22"	3 1/2"	5380	2'-21/2"
-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56 1/2"	28 1/2"	22"	3 1/2"	6550	2'-6"
-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65 1/2"	33 1/8"	24"	4"	8750	2'-10 1/2"
'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72 1/2"	36 11/16"	24"	4"	9270	3'-5"
'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 15/16"	24"	5"	13250	4'-6"

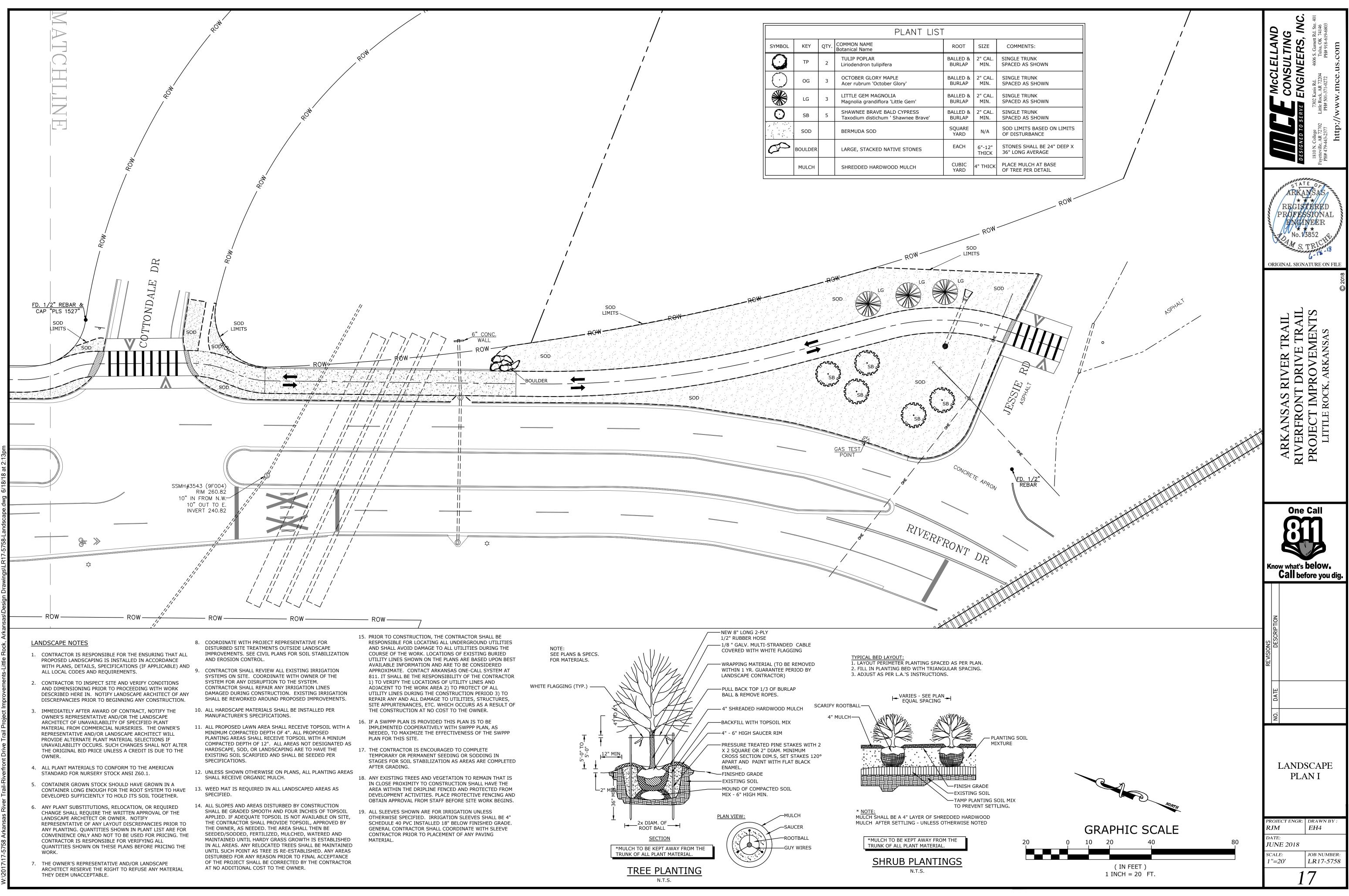


<u>NOTE</u>: LOCATION OF CROSS DRAIN TO BE DETERMINED IN THE FIELD.

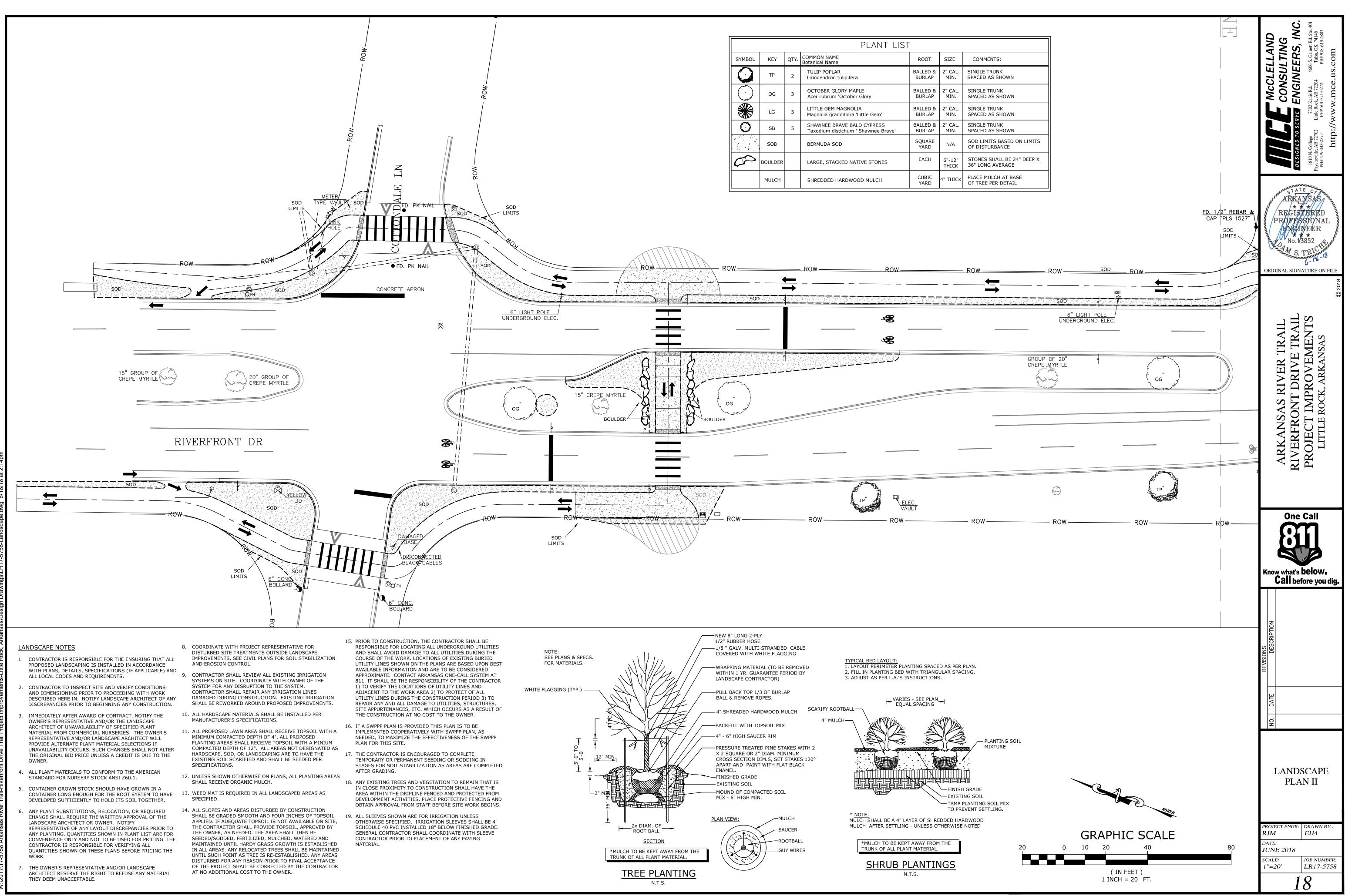
SINEER EL ARKANSA GISTERE FESSIONAL ORIGINAL SIGNATURE ON FILE L VE TRAIL VEMENTS KANSAS IMPROVI DRI ARKANSAS RIVERFRONT PROJECT IM LITTLE ROC One Call Know what's **below.** Call before you dig. MISCELLANEOUS DETAILS II PROJECT ENGR: DRAWN BY : DPW DLR DATE: JUNE 2018 SCALE: SCALE: JOB NUMBER: AS SHOWN LR17-5758

16

NC.



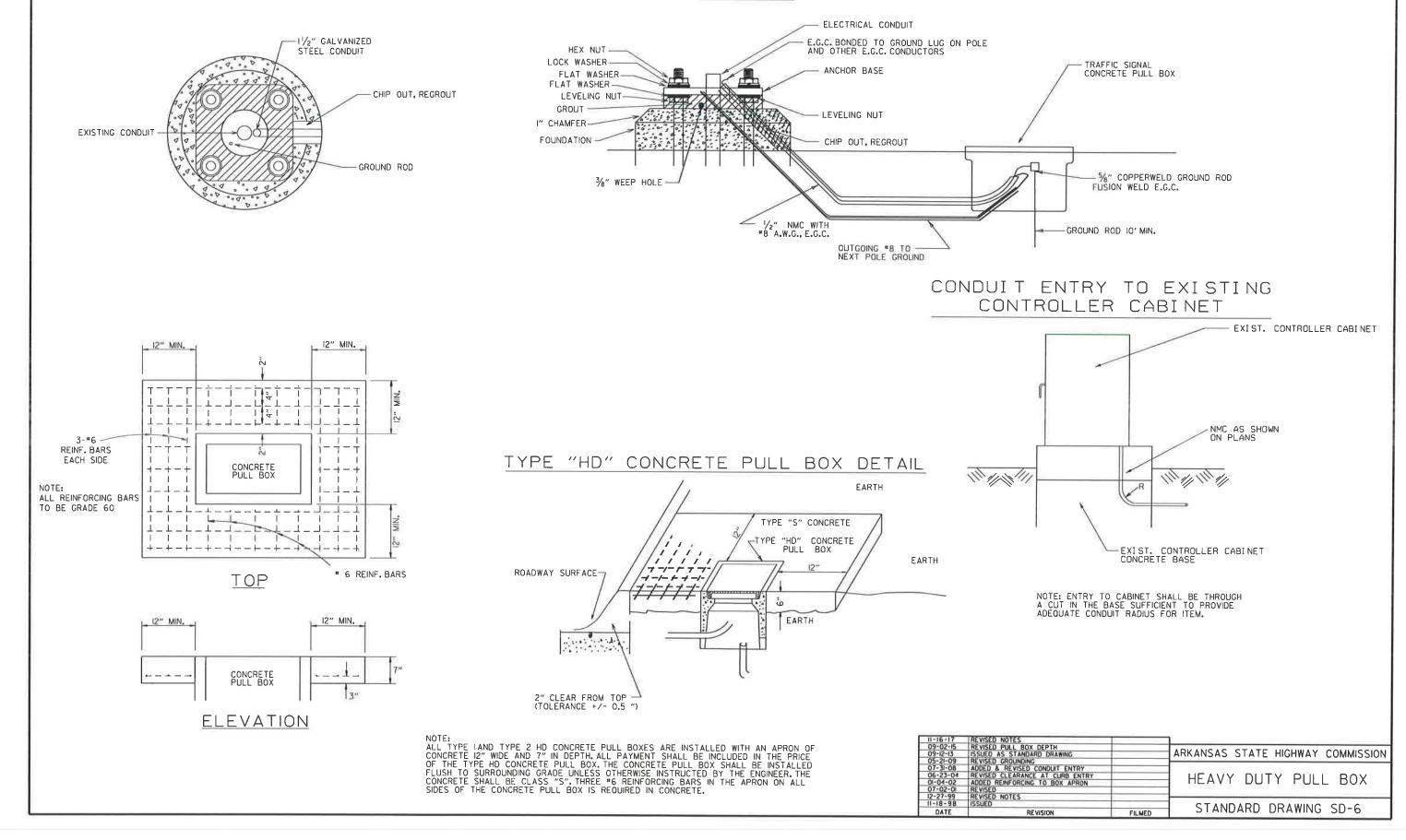
1						
					<u></u> т	
	SYMBOL	KEY	QTY.	PLANT LIS COMMON NAME Botanical Name	ROOT	SIZ
		ТР	2	Botanical Name TULIP POPLAR Liriodendron tulipifera	BALLED & BURLAP	
		OG	3	OCTOBER GLORY MAPLE	BALLED &	2" C
		LG	3	Acer rubrum 'October Glory' LITTLE GEM MAGNOLIA	BURLAP BALLED &	MIN 2" C
, ,				Magnolia grandiflora 'Little Gem' SHAWNEE BRAVE BALD CYPRESS	BURLAP BALLED &	MIN 2" C
		SB	5	Taxodium distichum ' Shawnee Brave'	SQUARE	MIN
				BERMUDA SOD	YARD EACH	N// 6"-1
	(CP)	BOULDER		LARGE, STACKED NATIVE STONES		THI
		MULCH		SHREDDED HARDWOOD MULCH	CUBIC YARD	4" TH
						R
				ROW	SC LIM:	D ITS
			P.(
						•
SOD LIMITS	* -					
Real	الحلق الم التي المحلوم المراجع والمحلوم المحلوم المحلو المحلوم المحلوم					— ₀ -
CONC. /ALL					11	
owsod				Arring C		- 1. - 1. - 1.
		5	SI	SB 25 SOD		- - - -
SOD			^{~V} l _{TU} TU	SB &	Try of the second	
				WATER AND	SB 5	\mathbb{X}
				SB 5 Vontre	of the second se	// `
				CAS TEST		
				GAS TEST POINT		
				, and the second s	CONCRE	TE AD
						,
				RIVE		
¢				st vERP	RONT	
				RIVERI *		DR
						\sim
						A.
					AAT	T.



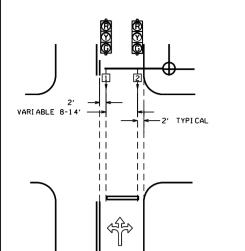
			PLANT LIST	-		
SYMBOL	KEY	QTY.	COMMON NAME Botanical Name	ROOT	SIZE	СОММ
\bigcirc	TP	2	TULIP POPLAR Liriodendron tulipifera	BALLED & BURLAP	2" CAL. MIN.	SINGLE - SPACED
	OG	3	OCTOBER GLORY MAPLE Acer rubrum 'October Glory'	BALLED & BURLAP	2" CAL. MIN.	SINGLE SPACED
	LG	3	LITTLE GEM MAGNOLIA Magnolia grandiflora 'Little Gem'	BALLED & BURLAP	2" CAL. MIN.	SINGLE SPACED
0	SB	5	SHAWNEE BRAVE BALD CYPRESS Taxodium distichum ' Shawnee Brave'	BALLED & BURLAP	2" CAL. MIN.	SINGLE SPACED
	SOD		BERMUDA SOD	SQUARE YARD	N/A	SOD LIM OF DIST
0	BOULDER		LARGE, STACKED NATIVE STONES	EACH	6"-12" THICK	STONES 36" LON
	MULCH		SHREDDED HARDWOOD MULCH	CUBIC YARD	4" THICK	PLACE M OF TREE

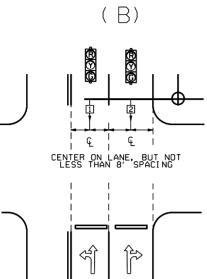
CONDUIT ENTRY TO EXISTING POLE BASE

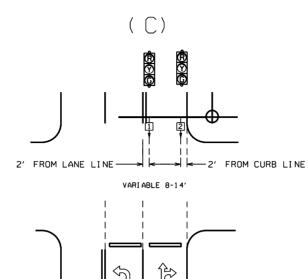




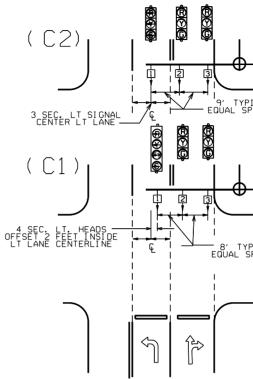


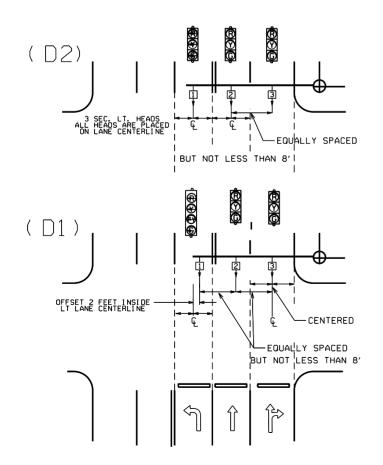






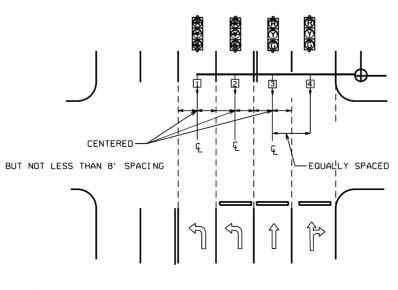
Ш





NOTE: WHERE LEFT TURN HEAD (HEAD 1 ON D1 AND D2) IS NOT CALLED FOR ON PLANS, MAST ARM LENGTH MAY STILL BE ALLOWED FOR FUTURE INSTALLATION, HEADS FOR THROUGH MOVEMENTS SHALL STILL BE ALIGNED WITH THROUGH LANES AS SHOWN ON DETAILS.

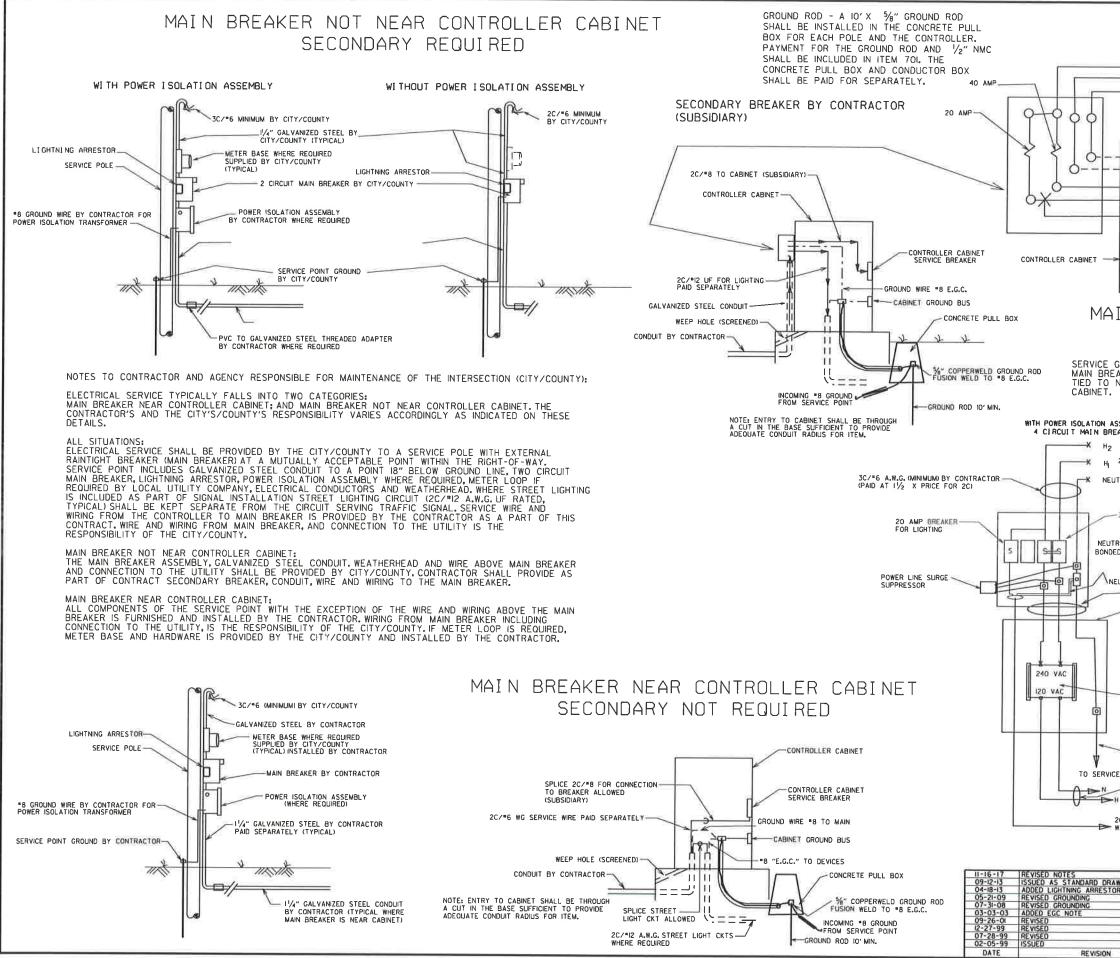




HEAD #2 - 2' MIN. TO RIGHT OF LANE LINE 9' TYPICAL EQUAL SPACING BOQ 00 C3) Į գ Æ - 8' TYPICAL EQUAL SPACING CENTER ON LANE BUT ĵ $\langle \neg \rangle$ 1. FOUR SECTION "PROTECTED/PERMISSIVE" LEFT TURN HEADS SHOULD BE PLACED A MINIMUM OF TWO (2') FEET TO THE RIGHT OF THE CENTERLINE OF THE APPROACHING LEFT TURN LANE. 2. THREE SECTION 'PROTECTED' LEFT TURN HEADS SHOULD BE PLACED ON THE CENTERLINE OF THE APPROACHING LEFT TURN LANE. 3. WHEN IT IS NECESSARY TO PLACE POLES OTHER THAN AS SHOWN ON PLAN SHEET(S) RESULTING IN MAST ARM EXTENDING MORE THAN TWO FEET PAST (TO THE LEFT OF) THE CENTERLINE OF THE APPROACHING LEFT TURN LANE, MAST ARM SHALL BE CUT TO APPROPRIATE LENGTH AS DETERMINED BY THE ENGINEER, AND A NEW END CAP PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THIS PRIOR TO INSTALLING THE MAST ARM IF ADDITIONAL COMPENSATION IS REQUIRED. 4. SIGNAL HEAD SPACING SHALL, IN NO CASE, BE LESS THAN EIGHT (8') FEET BETWEEN HEADS ON CENTER, MEASURED HORIZONTALLY PERPENDICULAR TO THE APPROACH. 5. ALL SIGNAL HEADS SHOWN ON THIS DETAIL SHEET SHALL BE LOCATED ACCORDING TO THE DIMENSIONS SHOWN IN RELATION TO THE APPROACH SIDE OF THE INTERSECTION. 6. MAXIMUM MOUNTING HEIGHT OF SIGNAL FACES LOCATED BETWEEN 40 FEET AND 53 FEET FROM STOP BAR SHALL BE IN ACCORDANCE WITH FIGURE 4D-5 OF 2009 MUTCD. ARKANSAS STATE HIGHWAY COMMISSION D NOTE 6 AS STANDARD DRAWING SIGNAL HEAD PLACEMENT NUTCD STANDARD DRAWING SD-8 REVISION DATE FILM

GENERAL NOTES:

12-8-16	REVISED
9-12-13	ISSUED
3-11-10	2009 N
12-9-99	ISSUED
DATE	



нот						
NEUTRAL 2C/*6 FROM CITY/COUNTY MAIN BREAKER						
E.G.C. NOT BONDED TO NEUTRAL AT CABINET						
IC/*8 E.G.C.						
NEUTRAL						
> POWER (SUBSIDIARY) 2C/*12 UF FOR STREET LIGHT CIRCUITS						
C/*12 UF FOR STREET LIGHT CIRCUITS						
-						
IN BREAKER WIRING						
(TYPICAL)						
GROUND IS TYPICALLY TIED TO NEUTRAL AT THE						
AKER. AS SUCH, CONTROLLER GROUND IS NOT NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER						
SSEMBLY WITHOUT POWER ISOLATION ASSEMBLY CAKER 2 CI RCUI T MAIN BREAKER						
X H ₂ NOT USED						
240 VAC 2C/*6 A.W.G. (MINIMUM) HI 120 VAC						
-30 AMP 2 POLE BREAKER						
RAL ED TO CHASSIS 20 AMP FOR LIGHTING SS NUTRAL						
EUTRAL & SAFETY GROUND						
- 3C/*8 BY CONTRACTOR						
RAINTIGHT TRANSFORMER HOUSING						
2C/*12 A.W.G. UF						
STREET LIGHT CKTS WHERE REQUIRED						
TO SERVICE GROUND						
DRY TYPE TRANSFORMER D-SOUARE 75IF OR EQUAL						
(7.5 KVA)						
*8 GROUND WIRE BY CONTRACTOR						
2C/*6 BY CONTRACTOR 3-3-2003, CONSISTING OF A IC/*8 A.W.G. CU GREEN WIRE AS PER NATIONAL ELECT, CODES.						
н						
2C/=12 A.W.G. WG UF STREET LIGHT CKTS WHERE REOUIRED						
ARKANSAS STATE HIGHWAY COMMISSION						
SERVICE POINT						
FILMED STANDARD DRAWING SD-9						

NOTES: PEDESTRIAN AND TRAFFIC SIGNAL HEAD SIGNS: EACH ITEM "TRAFFIC SIGNAL HEAD (4 SEC., I-WAY)" SHALL INCLUDE A SPECIAL SIGN AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RICHT OF THE SIGNAL HEAD UNLESS REMOVED WITHIN THE SIGNAL PLAN NOTES.

EACH ITEM "TRAFFIC SIGNAL HEAD (3 SEC., I-WAY)" TO BE USED AS A LEFT TURN INDICATION ONLY SHALL INCLUDE A SIGN (RIO-10) AS SHOWN, ATTACHED TO THE MAST ARM OR SPAN ASSEMBLY 12" TO THE RIGHT OF THE SIGNAL HEAD.

EACH PEDESTRIAN PUSHBUTTON SHALL HAVE ONE RIO-3E SIGN ATTACHED TO THE POLE ABOVE THE BUTTON. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 723 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL SIGN BLANKS SHALL BE CONSTRUCTED OF ALUMINUM ALLOY (ASTM DESIGNATION B-209, ALLOY 5052-H38) WITH THICKNESS OF 0.100 INCH.

GENERAL NOTES: I. MAST ARM POLES SHALL BE MOUNTED A MINIMUM OF FOUR (4') FEET BEHIND CURB OR SHOULDER.

2. OCTAGONAL POLES AND ARMS MEETING THE REQUIREMENTS OF THE PLANS SPECIFICATIONS CAN BE INSTALLED IN LIEU OF ROUND, ALL POLES AND ARMS IN A JOB MUST BE THE SAME SHAPE.

3. MINIMUM STRUCTURAL REQUIREMENTS: DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION (2001) WITH 2003 AND 2006 INTERIMS.

USE FATIGUE CATEGORY IFOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS 65 MPH AND GREATER AT THE STRUCTURE LOCATION AND ON ROUTES WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH WITH AN MAST ARM OF GO OR LONGER.

USE FATIGUE CATEGORY ||FOR ALL STRUCTURES ON ROUTES WHERE THE SPEED LIMIT IS LESS THAN 65 MPH AND GREATER THAN 45 MPH WITH MAST ARMS LESS THAN 60' AND ON ROUTES_WHERE THE SPEED LIMITS OF 45 MPH AND LESS WITH AN MAST ARM OF 60' OR LONGER.

USE FATIGUE CATEGORY INFOR ALL STRUCTURES WHERE THE SPEED LIMIT IS 45 MPH AND LESS AND MAST ARMS LESS THAN 60'.

CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

BASE WIND SPEED: 90 MPH.

STEEL MEMBERS CONSIDERED MAIN LOAD CARRYING MEMBERS WITH A THICKNESS GREATER THAN $V_{\mathcal{S}'}'$ SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIC IN SUBSECTION 807.05 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD: AS A MINIMUM, DESIGN SHALL BE BASED ON THE FIXED ATTACHMENTS SHOWN BELOW OR AS MODIFIED IN THE PLANS.

ALL SIGNAL HEADS TO BE ONE WAY, TWELVE (12") INCH AND HAVE FIVE (5") INCH BACK PLATES:

SIGNAL HEADS AT THE END OF MAST ARM - ONE 4 SEC., 85 LB., 14.5 SQ.FT., ONE SIGN MOUNTED 3 FEET FROM SIGNAL HEAD (2'-O" X 2'-G"; 20 LB.) REMAINING SIGNAL HEADS SPACED AT 8 FT.(3 SEC., 56 LB., 8.3 SQ.FT.); DESIGN TO ACCOMMONTE. HEADS SPACED AT 8 FILIS SEL, 30 ED. 0.5 SULFT. DESIGN TO ACCOMMODATE: 2 SIGNAL HEADS FOR MAST ARMS 10 FT. TO 16 FT. 3 SIGNAL HEADS FOR MAST ARMS 18 FT. TO 24 FT. 4 SIGNAL HEADS FOR MAST ARMS OVER 26 FT.

STREET NAME SIGN - 72" X 18", 36 LB., MOUNTED SUCH THAT OUTSIDE EDGE IS NOT GREATER THAT 12 FT.FROM POLE. DEPENDING UPON POSITION OF SIGNAL HEAD ADJACENT TO POLE, SIGN MAY OVERLAP POLE SHAFT. ROADWAY LUMINAIRES (WHERE REQUIRED ON PLAN SHEET) -VARIABLE ARM LENGTH (MAX, WT.75 LB., 3.3 SO, FT.) PEDESTRIAN SIGNALS - TWO I SEC., 12 INCH MOUNTED 8 FT.FROM BASE OF POLE, POST MOUNTED 3 SEC. SIGNAL HEAD AT 10 FT. ON SIDE OF POLE.

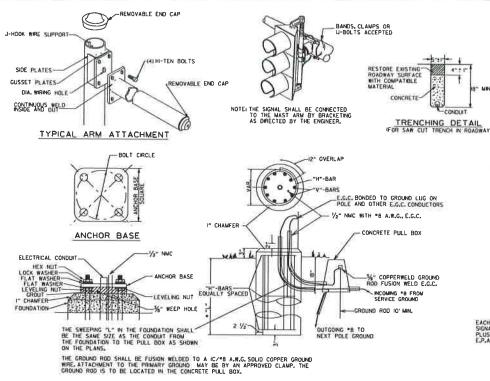
4. POLE/MAST ARM CAP - POLE AND MAST ARM CAPS SHALL BE PROVIDED, FABRICATED OF EITHER STEEL OR CAST ALUMINUM.

5. HAND HOLE - HAND HOLES SHALL BE 4 IN. X 6 IN. FOR STANDARD, AND 3 IN. X 5 IN. FOR PED POLES. MINIMUM PLACED APPROXIMATELY 12 INCHES FROM BASE, AND SHALL BE FIXED WITH A BOLT DOWN COVER. A VACCUM FORMED ABS COVER IS AN ACCEPTABLE ALTERNATE TO STEEL POLES GREATER THAN 2IFT.IN HEIGHT (FOR ROADWAY LUMINAIRE ATTACHMENT) SHALL INCLUDED A HAND HOLE WITHIN 12 INCHES OF MAST ARM(S) ATTACHMENT(S).

6. POLE/MAST ARM TAPER SLOPE - AVERAGE TAPER OF SIGNAL MAST ARMS AND POLE SHAFT SHALL BE 0,125 TO 0,15 INCHES PER FOOT.

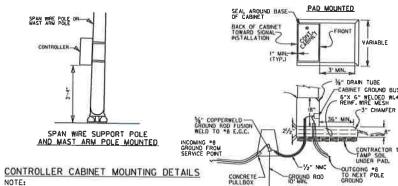
MAST ARM CENTERLINE ANGLE AT ATTACHMENT POINT WITH POLE SHALL MAINTAIN NOT LESS THAN 0.5 DEGREES OR MORE THAN 4 DEGREES POSITIVE SLOPE WITH A LINE PERPENDICULAR TO THE POLE CENTERLINE. THE MAST ARM SHALL MAINTAIN A POSITIVE SLOPE AFTER IT IS PLACED SHALL MAINTA

7. NUT COVERS - EACH POLE SHALL INCLUDE A BOLT DOWN NUT COVER FOR EACH ANCHOR BOLT.



TYPICAL FOUNDATION DETAILS POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING. ALL REINFORCING STEEL SHALL BE GRADE 40 MIN.

ARM	FOUNDATION	DEPTH	STEEL				
LENGTH	DIAMETER	"L"*	VERTICAL	HORIZONTAL	0.C.		
PED	30"	7'-0"	12-#7 (6'-6")	10-#4	8.44"		
2' TO 12'	30″	10'-6"	12-#7 (10'-0")	15-#4	8.42"		
OVER 12' TO 20'	30"	11'-6"	12-#7 (II'-0")	16-#4	8.66'		
OVER 20' TO 35'	36"	12'-6"	13-*8 (12'-0")	17-#4	8.88"		
OVER 35' TO 50'	36"	13'-6"	13-*8 (13'-0")	19-#4	8.56"		
OVER 50' TO 72'	42"	14'-6"	18-*8 (14'-0")	20-#4	8.74"		
TWINS TO 20'	30″	16'-0"	12-#6 (15'-6")	22-*4	8.76"		
TWINS OVER 20' TO 44'	36"	16'-0"	13-#8 (15'-6")	22-#4	8.76"		
TWINS OVER 44' TO 50'	42"	16'-0"	18-*8 (15'-6")	22-#4	8.76"		
TWINS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"		



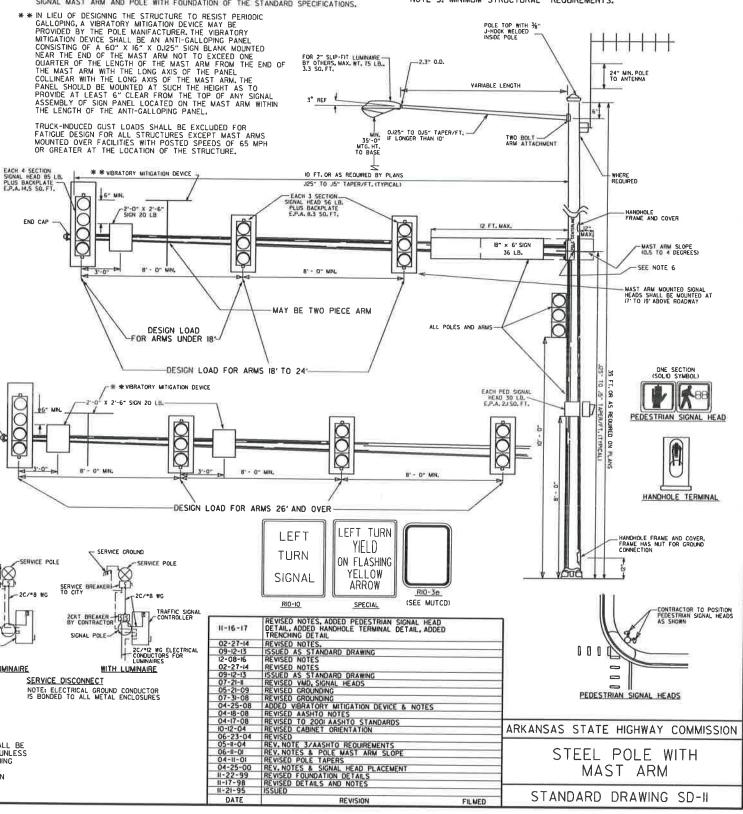
UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CABINET CABINET IS PARALLEL TO THE STREET AND POSITIONED TO ALLOW VISIBILITY OF THE SIGNAL DISPLAY WHILE OBSERVING THE CONTROLLER FRONT PANEL.

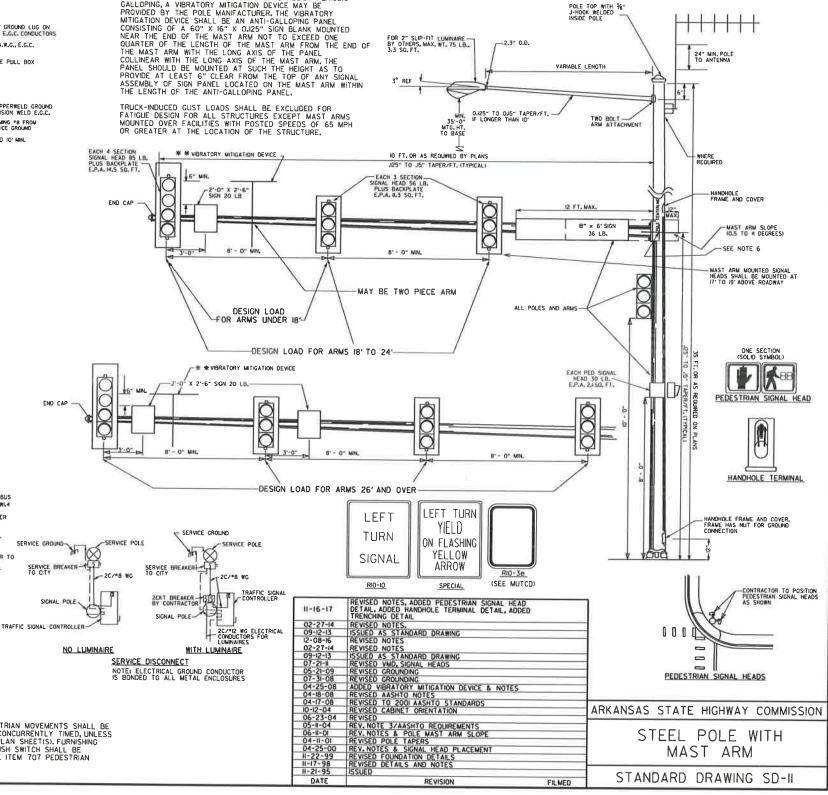
B. GROUND ROD - A 10'X 5%" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER, PAYMENT FOR THE GROUND ROD AND 1/2" NM SHALL BE INCLUDED IN ITEM 714 FOR SIGNAL POLES AND ITEM 701FOR THE CONTROLLER, THE CONCRETE PULL BOX NMC AND CONDUCTOR BOX SHALL BE PAID SEPERATELY.

POLE BASE/FOUNDATION - ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT, PERIMETER OF ANCHOR BASE SHALL BE CROUTED WITH A $\frac{1}{4}$ WEEP HOLE. ALL CONCRETE SHALL BE CLASS "S" OR GREATER.

IO. CONCRETE - ALL CONCRETE FOR CONTROLLER CABINET AND POLE FOUNDATIONS SHALL BE CLASS "S" OR GREATER.

- * WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION. THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH "L" WILL BE REQUIRED, WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5"-6" OR LESS, INCREASE DEPTH "L" BY I'-O". FOR LENGTHS GREATER THAN 5'-6", DEPTH "L" SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER. LONGTUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND "4 THES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS. PAYMENT WILL BE IN ACCORDANCE WITH SECTION 714 TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION OF THE STANDARD SPECIFICATIONS.





II. PEDESTRIAN PHASES - PEDESTRIAN MOVEMENTS SHALL BE PUSH BUTTON ACTUATED AND CONCURRENTLY TIMED, UNLESS OTHERWISE INDICATED ON THE PLAN SHEET(S), FURNISHING AND INSTALLING PEDESTRIAN PUSH SWITCH SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM 707 PEDESTRIAN SIGNAL HEAD.

-3" CHAMFER

A month

CONTRACTOR TAMP SOIL UNDER PAD.

CONCRETE BASE MOUNTED

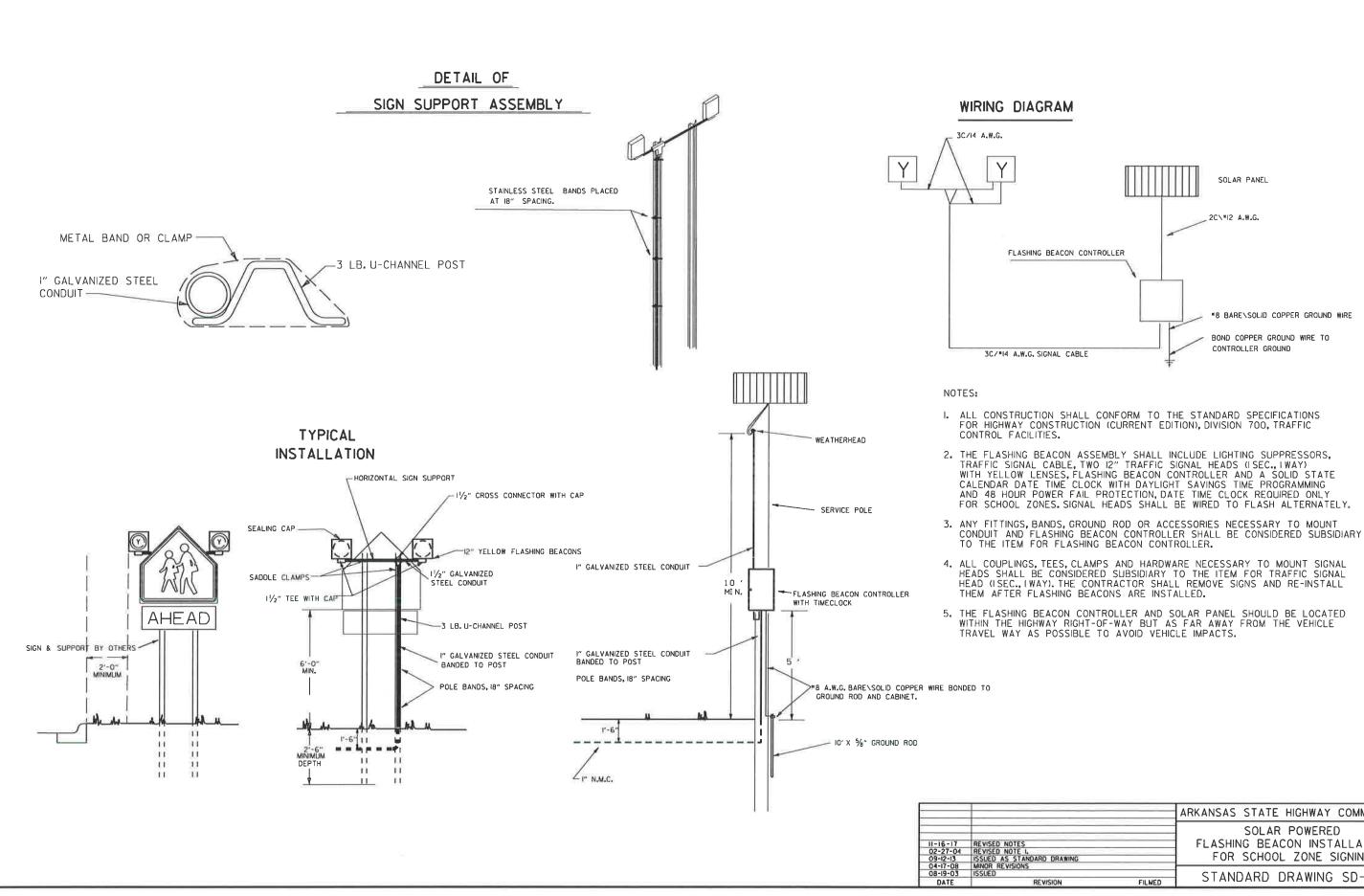
CABINET DETAILS

SIGNAL OPERATION NOTES:

FLASHING OPERATION - PRIOR TO NORMAL OPERATION, SIGNAL SHALL BE FLASHED FOR A PERIOD OF 3 TO 5 WORK DAYS OR AS DIRECTED BY THE ENGINEER, SIGNAL SHALL BE PLACED IN OPERATION ONLY ON A REGULAR WORK DAY, EXCEPT FRIDAY.

THE CONTRACTOR MAY BE REQUIRED TO ALTER THE FLASHING DISPLAY DURING THE TEMPORARY FLASH PERIOD, AT THE TIME THE INTERSECTION IS PLACED IN PERMANENT OPERATION, THE FLASH SEQUENCE SHALL THEN BE RETURNED TO THAT INDICATED ON THE PLAN SHEETS, NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE ALTERATION IN FLASH SEQUENCE.

SPECIAL NOTE: 90 MPH WIND ZONE DESIGN, SEE NOTE 3. MINIMUM STRUCTURAL REQUIREMENTS.



	ARKANSAS STATE HIGHWAY COMMISSION
IAWING:	SOLAR POWERED FLASHING BEACON INSTALLATION FOR SCHOOL ZONE SIGNING
N FILMED	STANDARD DRAWING SD-15