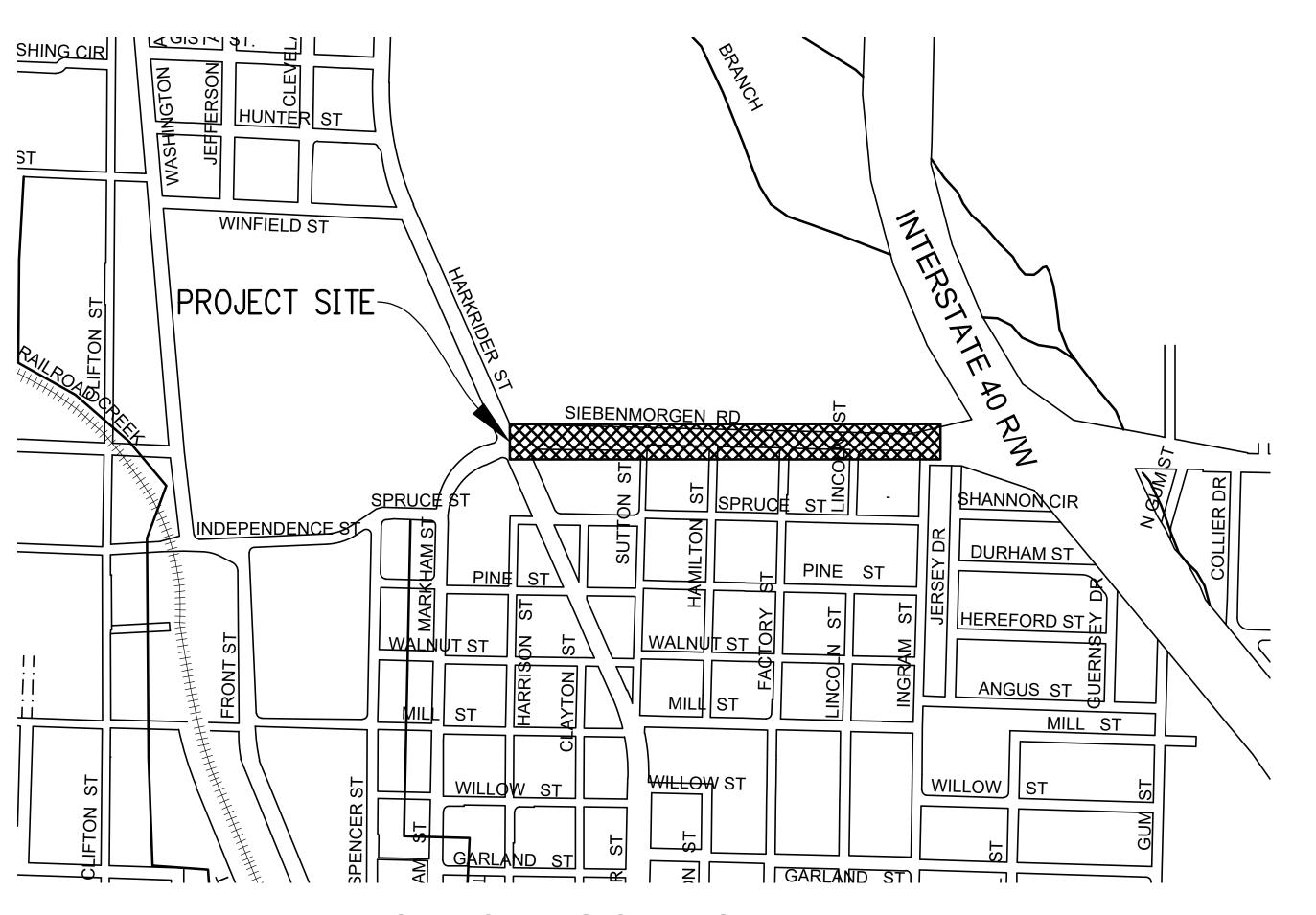
# SIEBENMORGEN ROAD

CONWAY, ARKANSAS

# HALF STREET IMPROVEMENT PROJECT

CTA NO. 15702600 SEPTEMBER 01, 2016



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EROSION CONTROL DETAILS



CERTIFICATE OF AUTHORIZATION:





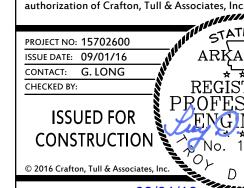
SIEBENMORGEN ROAD HALF STREET IMPROVEMENT PROJECT

CONWAY, AR

Key Plan

lo. Description Date

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TITLE SHEET

C-001

PROJECT LOCATION MAP

NTS



	<u>SYMBOLS</u>	<u>LINEWORK</u>	
0	FOUND IRON PIN	EASEMENT	
<b>\</b>	LIGHT POLE	==========	=======
Ø	POWER POLE	CURB	
	TELEPHONE PEDESTAL TV PEDESTAL	INTERMEDIATE CONTOUR	——1206——  ——  —
<ul><li> </li></ul>	MANHOLE SANITARY SEWER CLEANOUT	INDEX CONTOUR	
$\triangle$	GAS METER	SANITARY SEWER LINE	
	GAS VALVE STORM SEWER PIPE	GAS LINE	G w
C	DOWN GUY	WATER LINE (SPECIFY SIZE & TYPE)	VV
$\triangleright\!$	WATER VALVE FIRE HYDRANT ASSEMBLY	UNDERGROUND TELEPHONE	
⊠ Ā	AIR RELEASE VALVE FIRE DEPARTMENT CONNECTION	UNDERGROUND ELECTRIC  OHE	μ.
○ ❸	WATER METER SPRINKLER HEAD	OVERHEAD ELECTRIC	
Ē	ELECTRIC PEDESTAL	UNDERGROUND TELEVISION	
	GRATED INLET	OVERHEAD TELEVISION	
	DROP INLET	CHAIN LINK FENCE WOOD FENCE	//
	TREE	ORNAMENTAL METAL FENCE	x
	TDEE TO DE DEMONER	FIBER OPTIC	——— FO ———

RIGHT OF WAY

ROAD CENTERLINE



#### <u>SYMBOLS</u> **LINEWORK**

•	SET IRON PIN	EASEMENT — — —	
*	LIGHT POLE		
<b>X</b>	POWER POLE	CURB	
_	TELEPHONE PEDESTAL	INTERMEDIATE CONTOUR	1206
	TV PEDESTAL		1005
•	MANHOLE	INDEX CONTOUR	1205
0	SANITARY SEWER CLEANOUT		-SS
<b>A</b>	GAS METER	SANITARY SEWER LINE	
$\bowtie$	GAS VALVE		— G ————
	STORM SEWER PIPE	GAS LINE	
(X-X)	STRUCTURE NUMBER	WATER LINE	— W ————
H	WATER VALVE		-UGT
<b>-∳▶</b>	FIRE HYDRANT ASSEMBLY	UNDERGROUND TELEPHONE	001
181	AIR RELEASE VALVE	UGE	₩
•	FIRE DEPARTMENT CONNECTION	UNDERGROUND ELECTRIC	
•	WATER METER		
	BACK FLOW PREVENTER	OVERHEAD ELECTRIC	50
<b>_</b>	REDUCER	FIBER OPTIC	-10
₫	PLUG VALVE		LIOTI/
_	DESTANGULAD DOOD THEFT	UNDERGROUND TELEVISION	UGIV ———
	RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION		OHTV ————
	BOX (SPECIFY ON PLAN	OVERHEAD TELEVISION	OIII V
	SHEET)		-0
	CIRCULAR DROP INLET,	CHAIN LINK FENCE	
(ullet)	GRATED INLET OR JUNCTION	WOOD FENCE	
	BOX (SPECIFY ON PLAN SHEET)		XXX
	5.122.7	BARBED WIRE FENCE	XX
		BUILDING SET BACK	
		RIGHT OF WAY	_
GRADING P FG	LAN SPOT ELEVATIONS FINISHED GRADE	PROPERTY LINE	
TW	TOP WALL	DOAD CENTEDLINE	

ROAD CENTERLINE



Know what's **below**. Call before you dig.



65 Bradley Cove Rd.

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### SIEBENMORGEN ROAD HALF STREET IMPROVEMENT PROJECT

CONWAY, AR

No.	Description	Date
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PROJECT NO: 15702600 ISSUE DATE: 09/01/16 ONTACT: G. LONG

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NOTES AND LEGENDS

<b>6</b>	GENERAL NOTES	1
(3)	GENERAL NOTES	J

- 1. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE
- PROJECT SPECIFICATIONS.
- 2. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
- 3. THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF CRAFTON, TULL & ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN
- AUTHORIZATION OF CRAFTON, TULL & ASSOCIATES, INC. 4. CONTRACTOR SHALL NOT CAUSE ANY LONG-TERM INCONVENIENCE TO THE PUBLIC, ADJACENT PROPERTY OWNERS, PEDESTRIANS, ETC. DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL PROVIDE ACCESS
- TO ALL ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION. 5. CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED IN THE PLANS OR SPECIFICATIONS.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT WHICH ARE NECESSARY TO CONFORM TO OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- 7. CRAFTON, TULL & ASSOCIATES, INC. (CTA) HAS NOT BEEN RETAINED BY THE OWNER FOR CONSTRUCTION ADMINISTRATION OR OBSERVATION SERVICES FOR THE WORK INDICATED ON THESE DRAWINGS. THEREFORE, CTA HEREBY NOTIFIES ALL PARTIES INVOLVED THAT CRAFTON, TULL & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR THE INTERPRETATION, COORDINATION, OR ADMINISTRATION OF THESE DOCUMENTS AND/OR DEVIATIONS THEREOF. FURTHERMORE, CRAFTON, TULL & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY EFFECTS THAT ANY CHANGES TO THESE DOCUMENTS MAY HAVE ON ANY RELATED TRADES, CONSTRUCTION SEQUENCES, OR OPERATION OF THE COMPLETED PROJECT EXCEPT AS SPECIFICALLY NOTED IN THE AGREEMENT BETWEEN CRAFTON, TULL & ASSOCIATES, INC AND THE OWNER.

## CONSTRUCTION NOTES

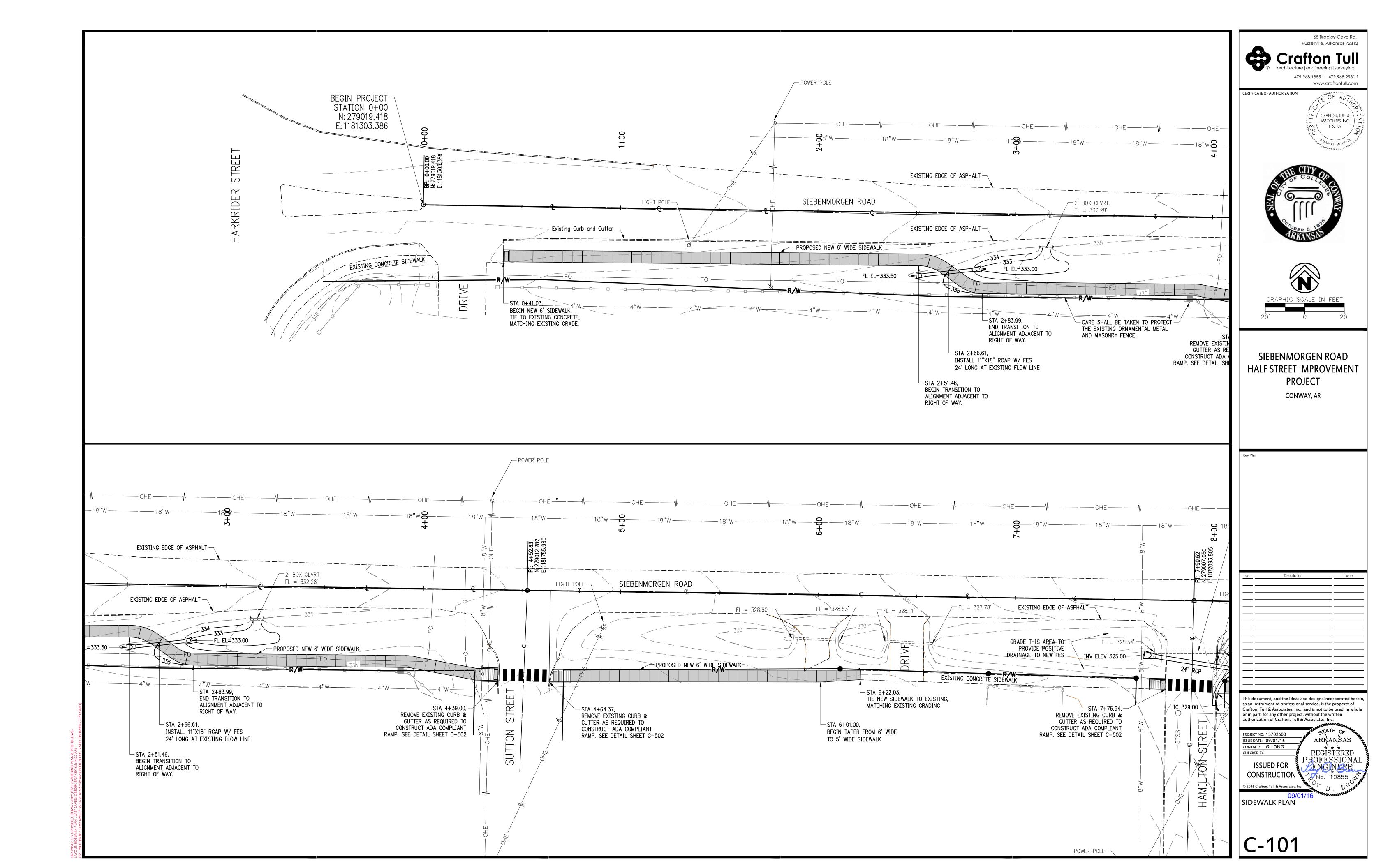
1. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES ON SITE OR IN RIGHT-OF-WAY. ALL UTILITIES MUST BE LOCATED PRIOR TO GRADING

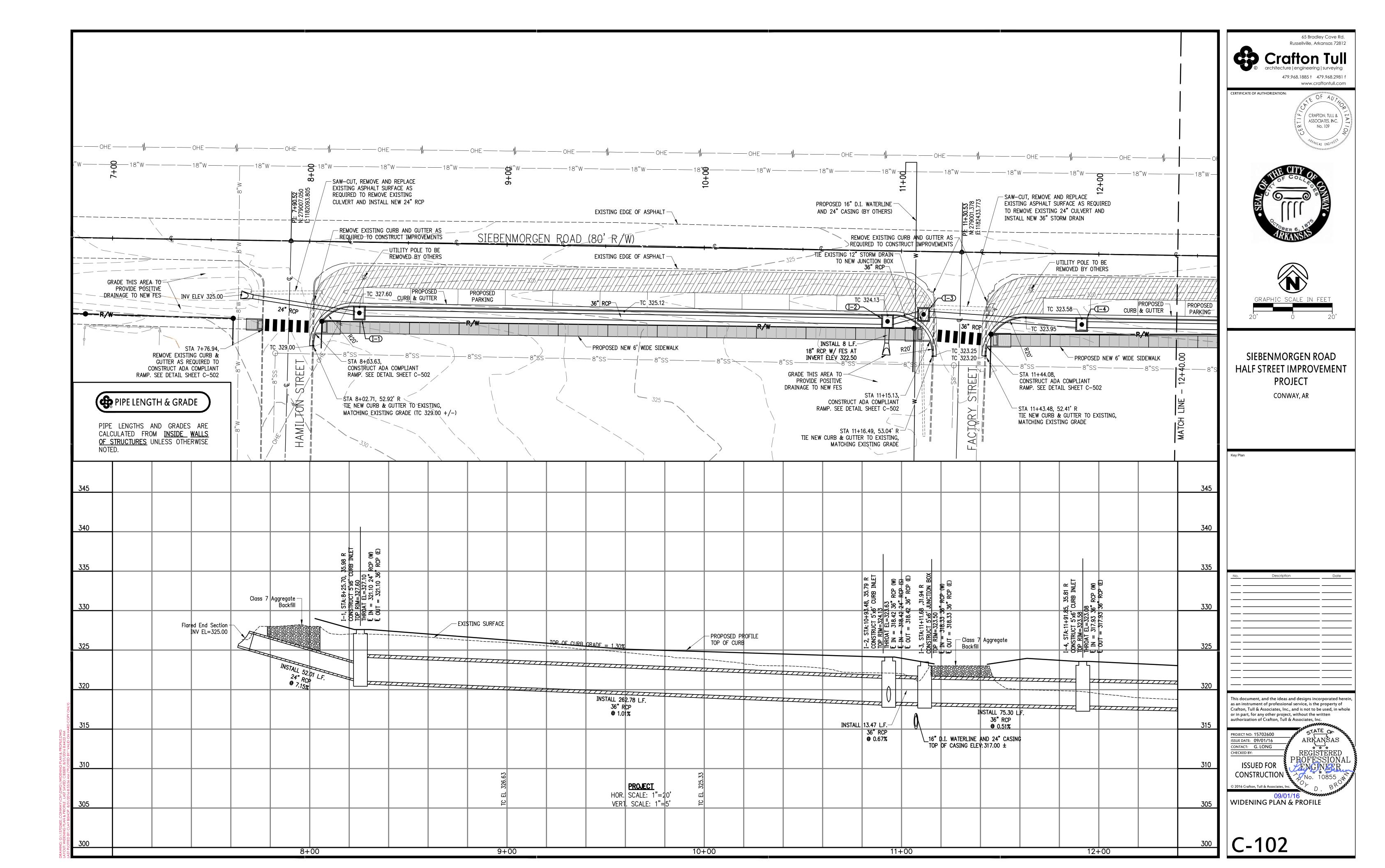
BOTTOM WALL FLOW LINE TOP CURB GUTTER GUTTER SIDEWALK TOP PAVEMENT

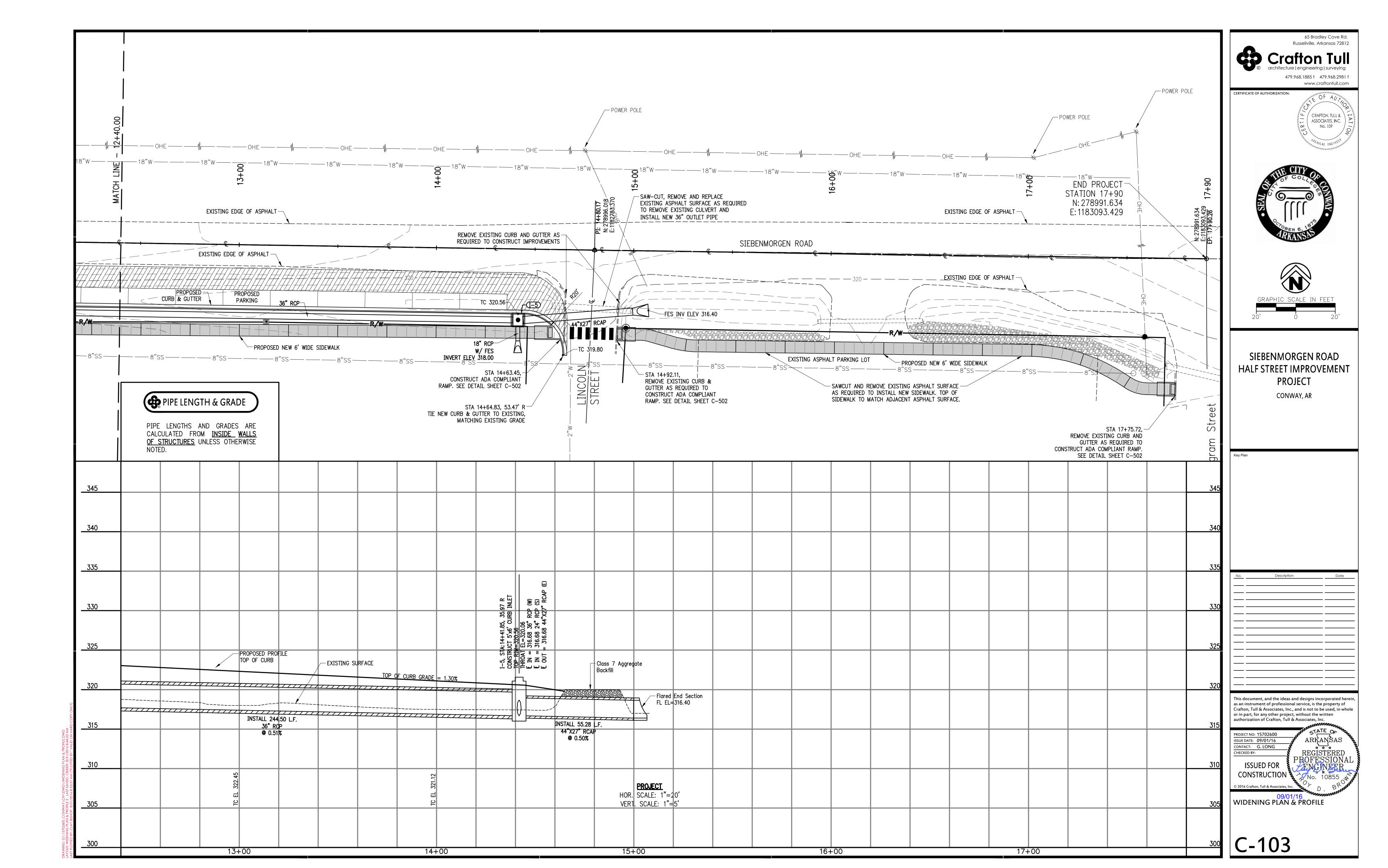
EXISTING GRADE

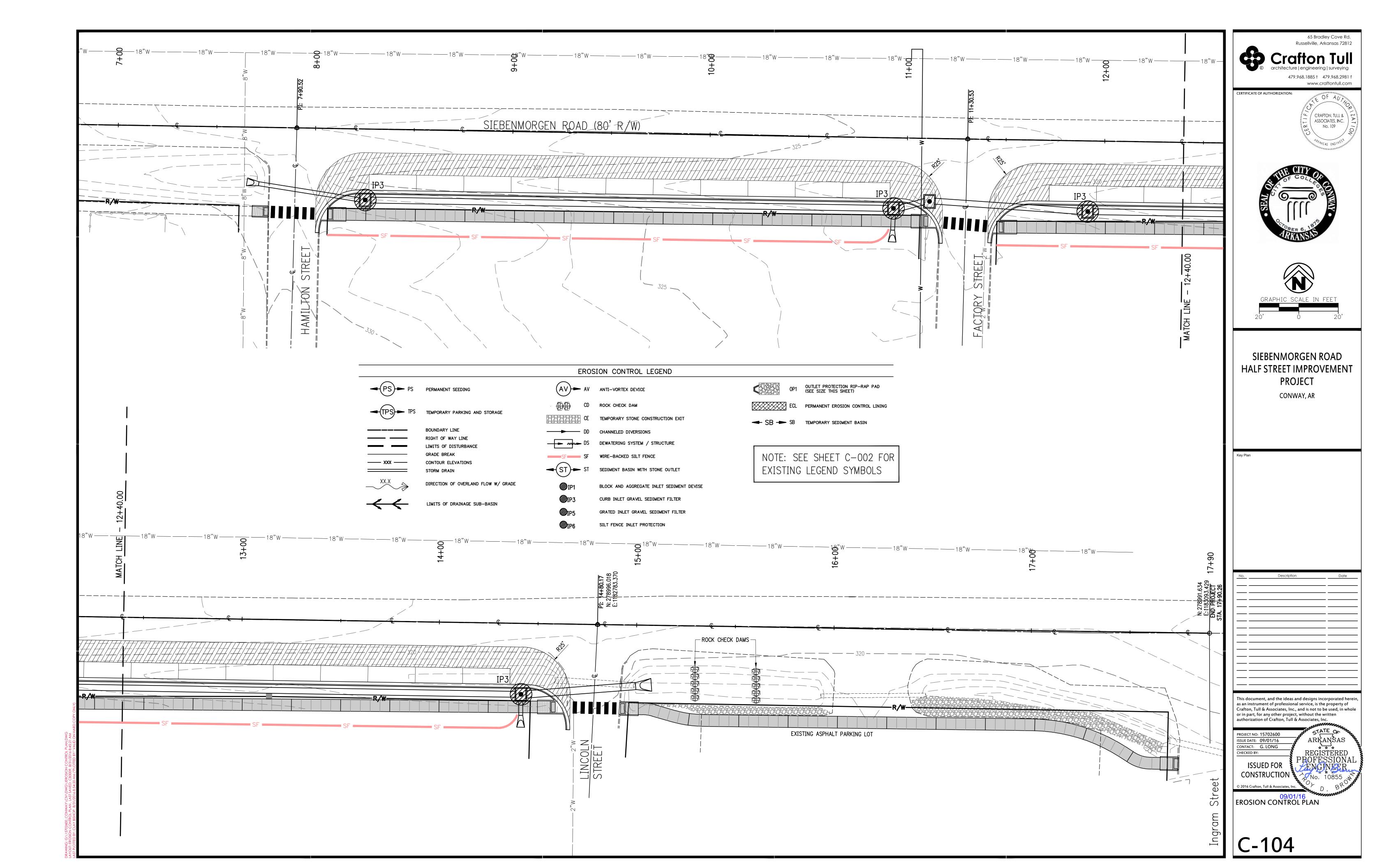
- 2. ALL CUT OR FILL SLOPES SHALL BE A MAX 3:1 SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
- 3. IF ANY EXISTING STRUCTURES OR UTILITIES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE OR UTILITY AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR
- 4. ALL STORM SEWER PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT. ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- 5. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY WHEN IN PAVED AND TRAFFIC AREAS.
- 6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 1" ABOVE FINISH GRADE. LIDS SHALL BE LABELED PER JURISDICTIONAL SPECIFICATIONS.
- 7. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL TO FINAL GRADE. DISTURBED AREAS SHALL BE SEEDED WITH COMMON BERMUDA GRASS SEED, MULCHED WITH WHEAT STRAW OR HAY, AND THOROUGHLY WATERED. HYDROSEEDING MAY BE USED AS AN ALTERNATE METHOD OF SEEDING.
- 8. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY COMPLETED BY OTHERS AND SUPPLIED TO CRAFTON TULL BY THE OWNER. CRAFTON TULL ASSUMES NO LIABILITY FOR THE ACCURACY OF SAID SURVEY INFORMATION. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON PLANS, CONTACT ENGINEER

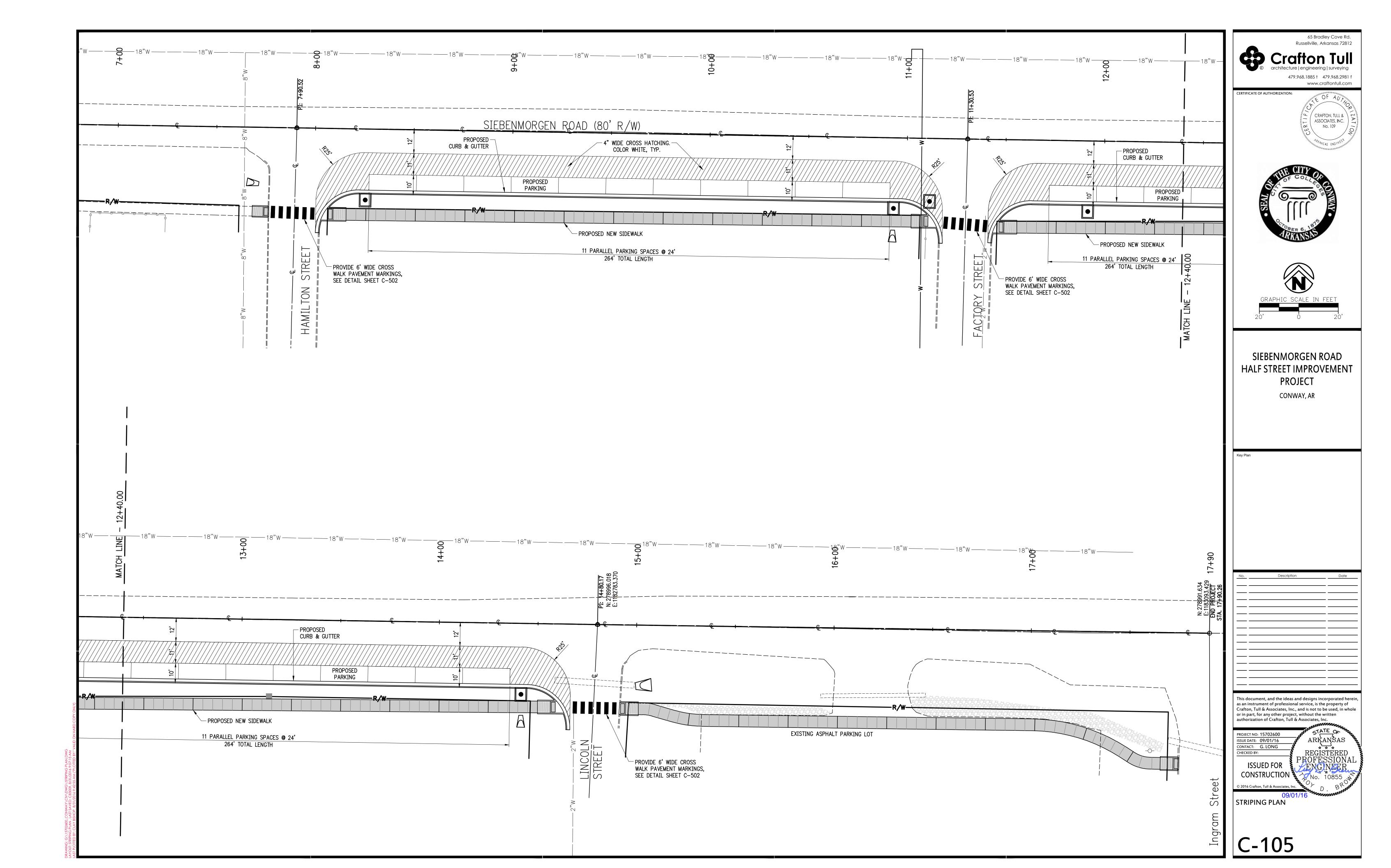
- IMMEDIATELY. 9. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- 10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE. 11. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND
- VEHICULAR TRAFFIC TO AND FROM THE SITE. 12. IF WET AREAS ARE ENCOUNTERED ON-SITE THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR THE DESIGN AND PLACEMENT OF A FRENCH DRAIN SYSTEM.

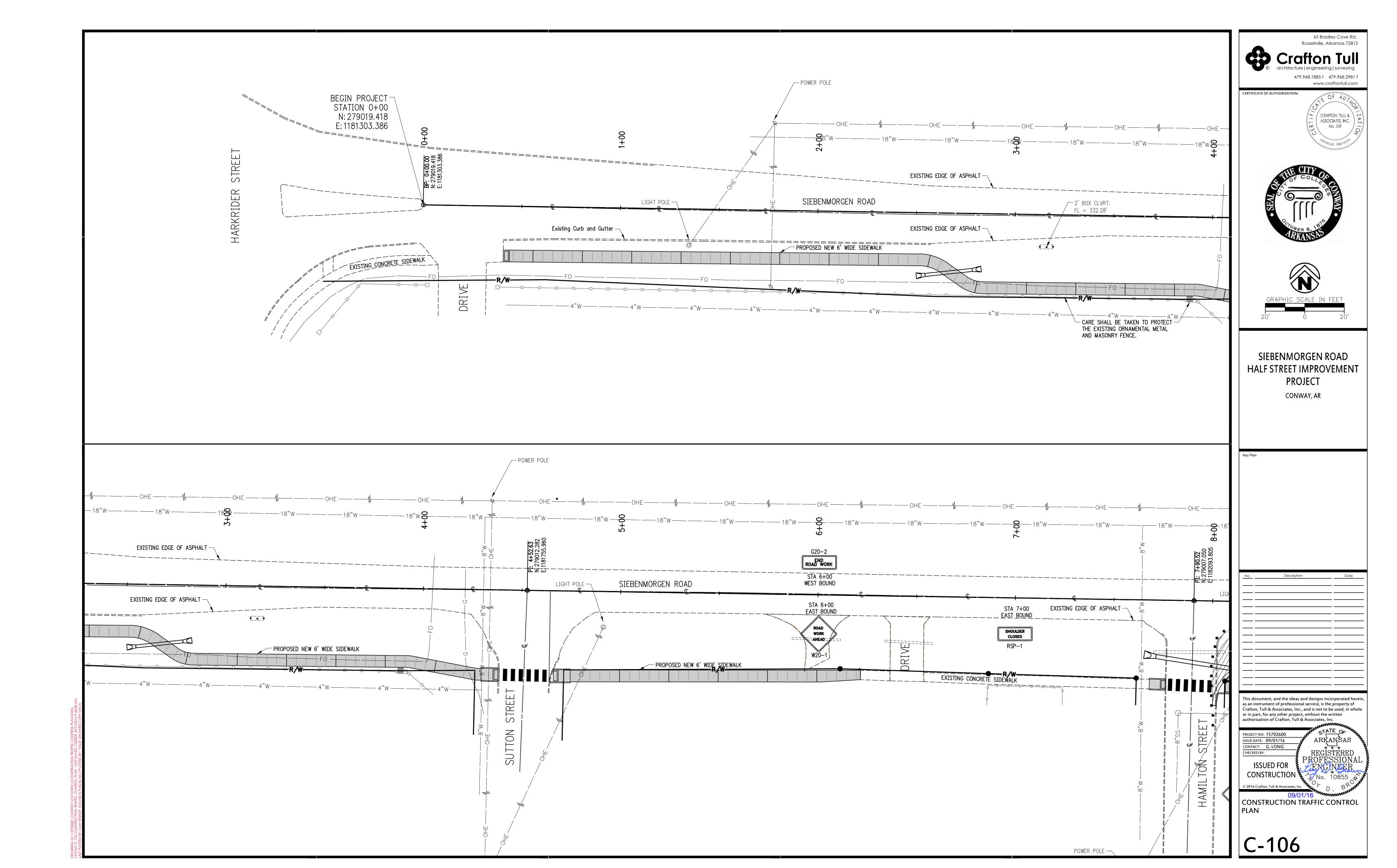


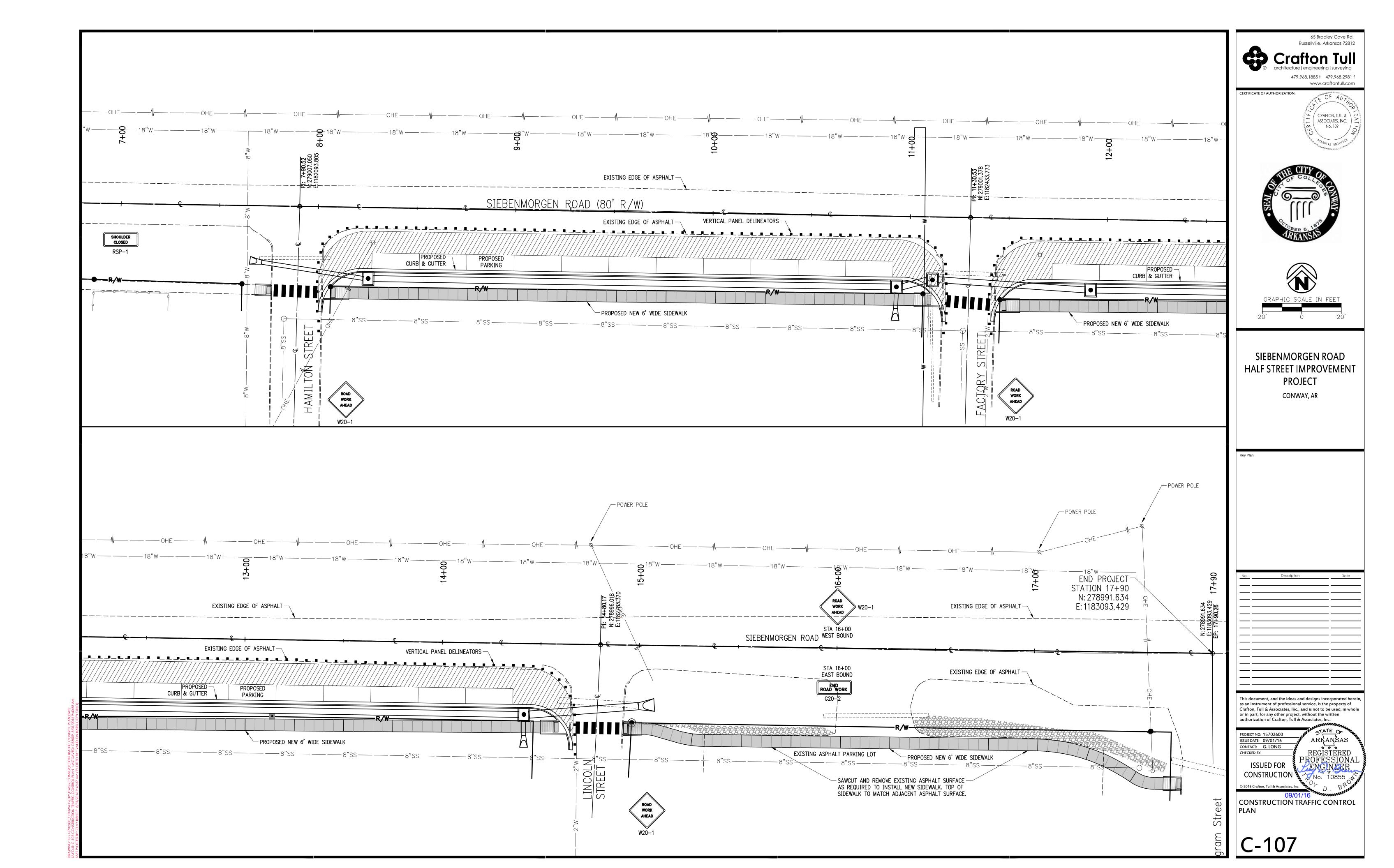


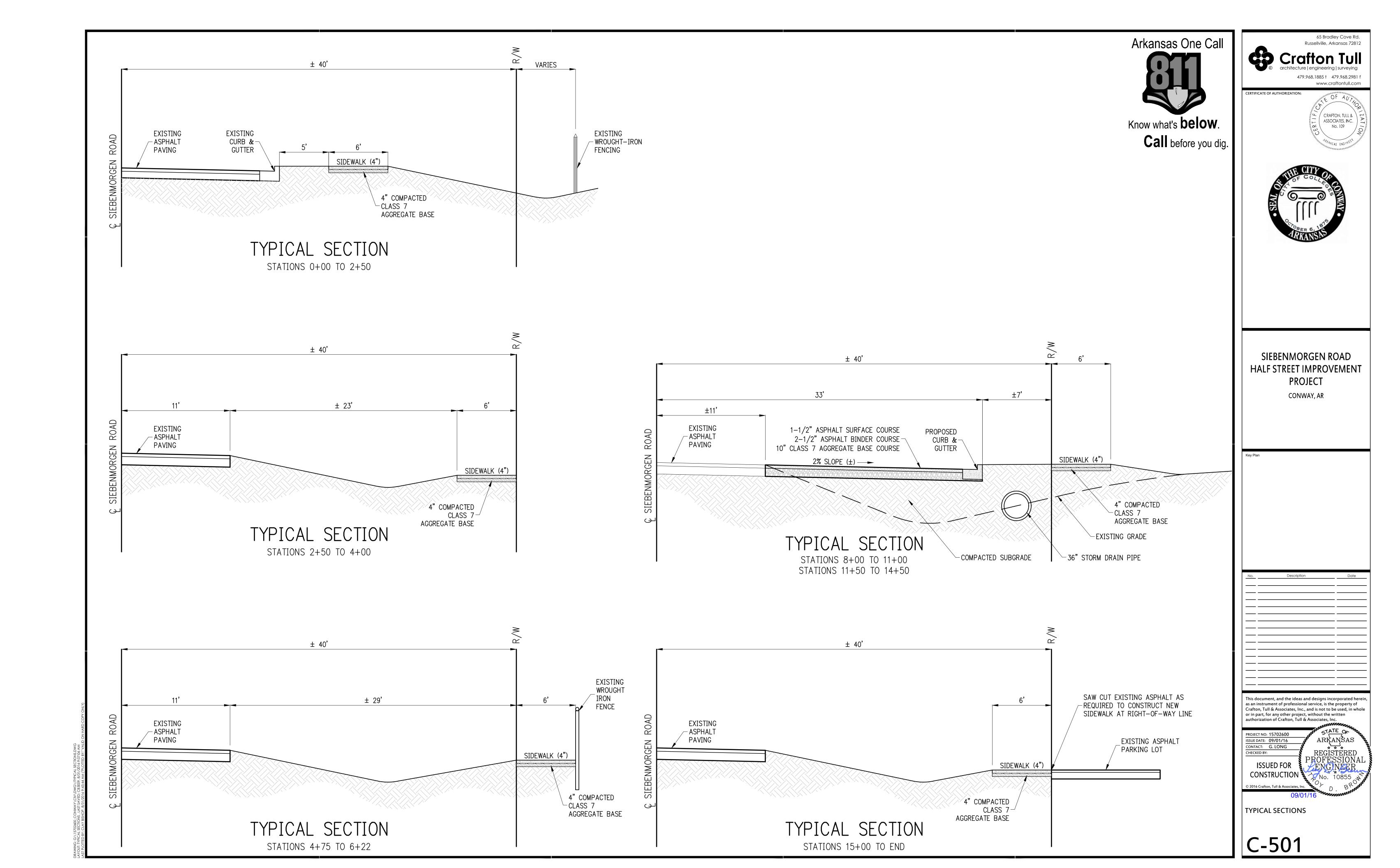


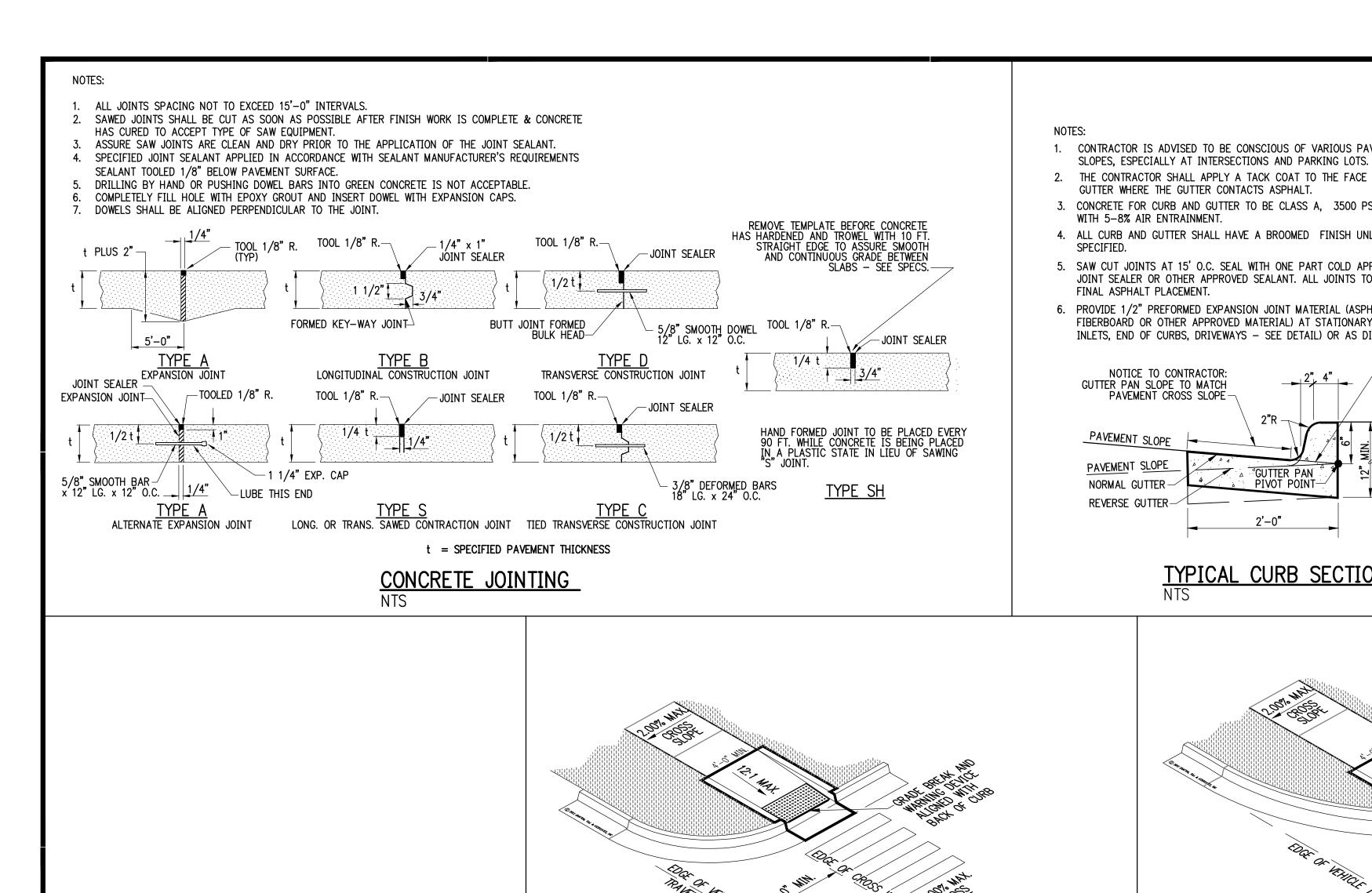






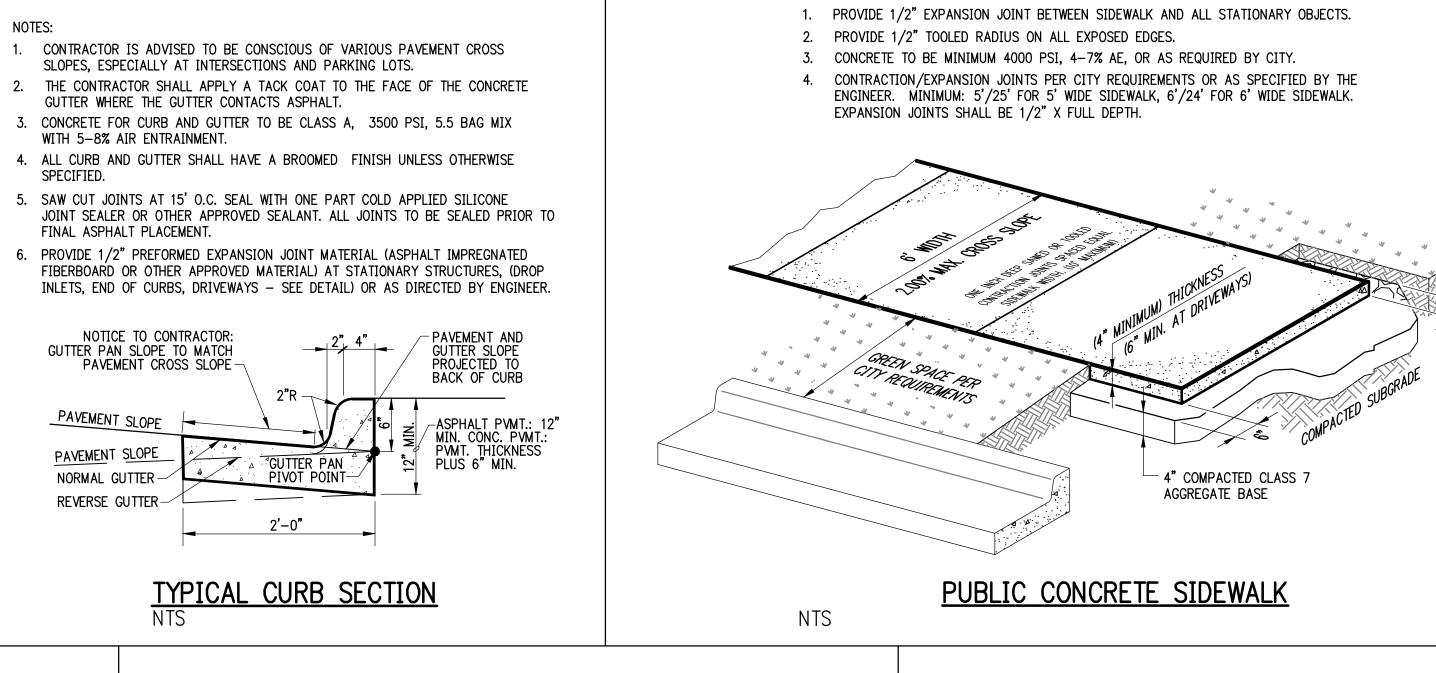


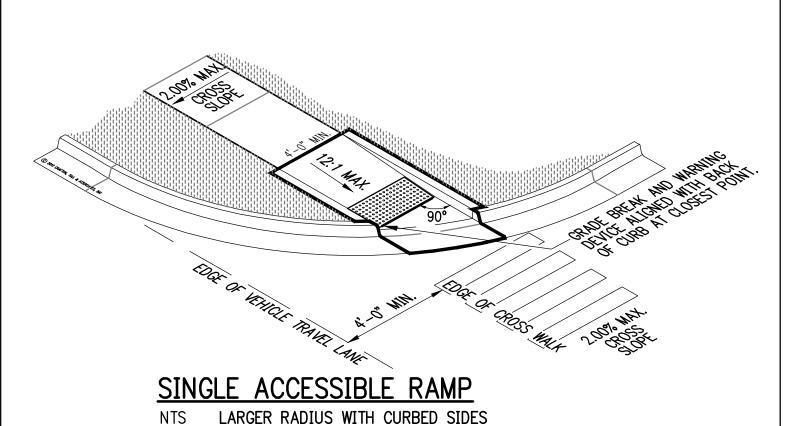


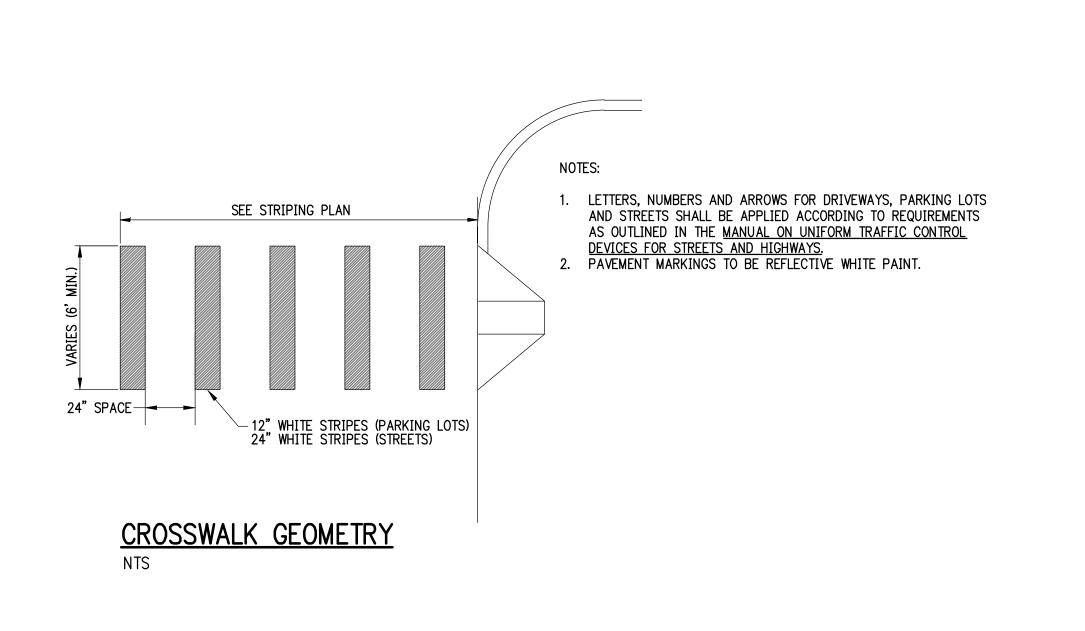


SINGLE ACCESSIBLE RAMP

NTS SMALLER RADIUS WITH CURBED SIDES







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No. 109

Russellville, Arkansas 72812

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SIEBENMORGEN ROAD

HALF STREET IMPROVEMENT

PROJECT

CONWAY, AR

Know what's **below**.

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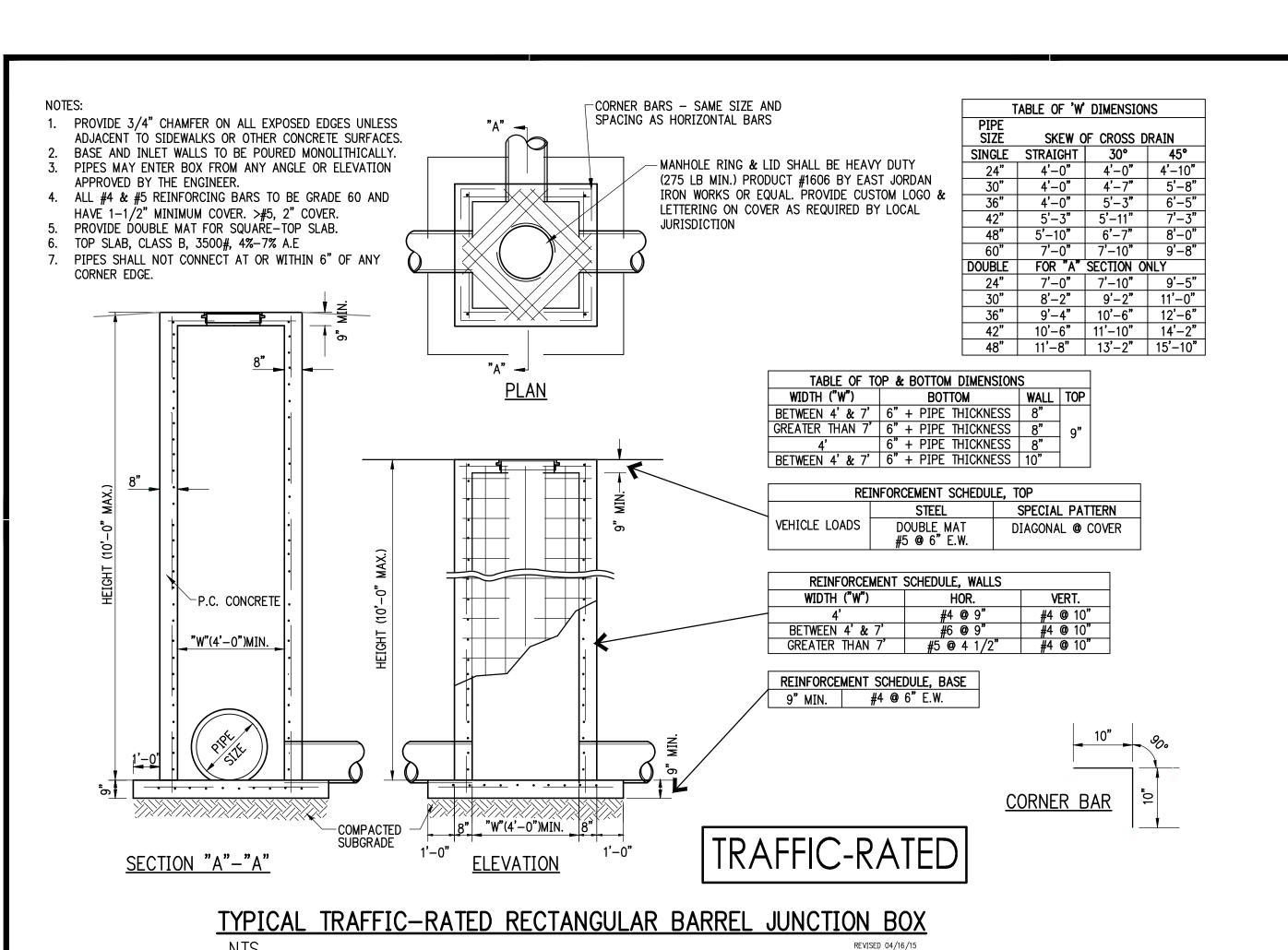
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SIEBENMORGEN ROAD HALF STREET IMPROVEMENT **PROJECT** 

CONWAY, AR

MIN. COMPRESSION STRENGTH (PSI AT 28 DAYS)	3000	3500				
MIN. CEMENT CONTENT (BAGS PER CUBIC YARD)	5.5	6.0				
MAX. NET WATER / 94LB. BAG (GALLONS)	6.5	5.5				
SLUMP RANGE (INCHES)	1-4*	1-4*				
AIR CONTENT RANGE (%)	4-7	4-7				
MAX. FLY ASH CONTENT (%)	20	20				
* MAX. SLUMP SHALL BE 2" WHEN SLIP FORM PAVEMENT METHODS ARE USED.						

B (BOTTOM)

6" MINIMUM

TYPICAL CURB INLET AND JUNCTION MANHOLE NOMENCLATURE

CONCRETE CHARACTERISTICS | CLASS A | CLASS E

ALONG INLL I IIINOAT TO	SIDEWALK NOTCH WHERE REQUIRED. SEE NOTE 7.  PACE OF CURB  L (LENGTH) 4'-0" MINIMUM  SIDEWALK NOTCH WHERE REQUIRED. SEE NOTE 7.  SEE NOTE 7.	INLET NOTES:  1. PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS APPROVED BY ENGINEER AND ACCEPTABLE BY THE GOVERNING JURISDICTION.  2. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE O.D. BY 1−1/2".  3. PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES.  4. ALL REINFORCING BARS SHALL HAVE 1−1/2" MINIMUM COVER  5. FOR STRUCTURES OVER 5 FEET IN HEIGHT, PROVIDE NEENAH R−1980−E OR EQUAL CAST IRON MANHOLE STEPS  16" O.C. IF REQUIRED BY OWNER OR JURISDICTION.  6. FOR GENERIC GRATED INLET, USE SIMILAR TO EAST JORDAN 1020M1 GRATE WITH APPROPRIATE RING UNLESS OTHERWISE SPECIFIED BY ENGINEER OR REQUIRED BY JURISDICTION.  7. IN LIEU OF SIDEWALK NOTCH, CONTRACTOR MAY INSTALL 12" LONG  44 SMOOTH DOWEL BARS WITH EXP. CAPS  12" O.C. BETWEEN INLET TOP AND ADJACENT SIDEWALK.  8. PROVIDE 6" MINIMUM CLEARANCE BETWEEN PIPE O.D. AND INLET SIDES, TOP, EXTENSIONS, DEPRESSIONS, AND OPENINGS.  9. CONCRETE TO BE CLASS B, 3500 #, WITH 4%−7% A.E.
NOTED AS 8' EXTENSION  7'-6"  NOTED AS 4' EXTENSION  WHERE REQUIRED. SEE NOTE 7.  DIRECTION OF GUTTER FLOW  ELEVATION  ELEVATION	PLAN  SIDEWALK NOTCH WHERE REQUIRED. SEE NOTE 7.  6"  L (LENGTH)  4'-0" MINIMUM  TOP OF CURB  GUTTER LINE  GUTTER LINE  #4s @ 9"O.C. EACH WAY-TYP. SIDES	RING AND LID SHALL BE HEAVY DUTY (275 L.B MIN) PRODUCT #1606 BY EAST JORDAN IRON WORKS OR APPROVED EQUAL OR AS REQUIRED BY LOCAL JURISDICTION. SEE NOTE 6.  SIDEWALK NOTCH WHERE REQUIRED.  SEE NOTE 7.  T (TOP)  PROVIDE 8" MIN. HEIGHT OPENING IN BACK OR SIDE OF INLET AT SPECIFIED ELEVATION WHEN CALLED FOR ON PLANS. PROVIDE EXTRA HORZ. BAR TOP AND BOTTOM OF OPENING INLET SIDE WALL WHEN BUILT WITH EXTENSIONS.  2 EA. 1" WEEP HOLES  SECTION  WALL REBARS:  #4s @ 9"O.C.  RING AND LID SHALL BE HEAVY DUTY (275 L.B MIN) PRODUCT #1606 BY EAST JORDAN IRON WORKS OR APPROVED EQUAL OR AS REQUIRED BY LOCAL JURISDICTION. SEE NOTE 6.  SIDEWALK NOTCH WHERE REQUIRED.  SEE NOTE 7.  T (TOP)  PROVIDE 8" MIN. HEIGHT OPENING IN BACK OR SIDE OF INLET AT SPECIFIED ELEVATION WHEN CALLED FOR ON PLANS. PROVIDE EXTRA HORZ. BAR TOP AND BOTTOM OF OPENING  WEEP HOLES  SECTION  WALL REBARS:  #4s @ 9"O.C.

GROUTED INVERT

TYPICAL RECTANGULAR CURB INLET

LIVE LOAD OF 100 PSF OF CONCENTRATED LIVE LOAD OF 3000 POUNDS.

NTS NOTE: THIS DETAIL IS GENERIC, NOT JURISDICTION OR SITE—SPECIFIC. USE JURISDICTION—SPECIFIC DETAILS WHEN AND

WHERE REQUIRED. THIS NON-TRAFFIC DETAIL IS INTENDED FOR SIDEWALK LOADING ONLY WITH UNIFORMLY DISTRIBUTED

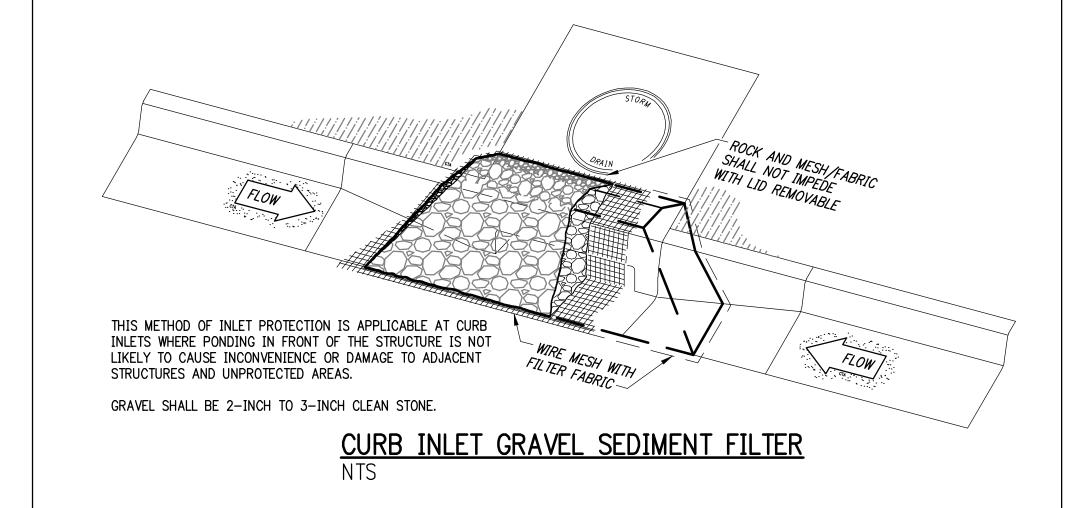
NON-TRAFFIC RECTANGULAR CURB INLET AND JUNCTION BOX DIMENSIONS AND REINFORCING SCHEDULE								
A (WALL) WALL THICKNESS	H (HEIGHT) TOP OF BOX TO E	L (LENGTH) ALONG CURB INSIDE BOX	W (WIDTH) INSIDE BOX	T (TOP) SLAB THICKNESS	B (BOTTOM) SLAB THICKNESS	TOP SLAB STEEL	BOTTOM SLAB STEEL	ADDITIONAL DIAGONAL BARS AT RING AND LID
		4'	4'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	
		4'	5'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	_ · ·
	6 INCHES (10' MAX. DEPIH) 10'-0" MAXIMUM - SEE PLAN SHEETS	4'	6'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	
		4'	7'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
<del>-</del>		4'	8'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
TP∃		4'	10'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
. :		5'	5'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	
MAX		6'	4'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	× 67H 0.C.
, 0		6'	6'	6"	6"	#4s @ 6" BOTH WAYS	#4s @ 6" BOTH WAYS	_ ¾ @
6 INCHES (1		7'	4'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	#   W   H
		7'	7'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	EIGHT MAXIMUM OSSIBLE
		8'	4'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		9,	4'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		9,	5'	8"	8"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		8'	8'	9"	9"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		10'	6'	9"	9"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		16'	6'	9"	9"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	
		16'	8'	9"	9"	#5s @ 8" BOTH WAYS	#5s @ 8" BOTH WAYS	

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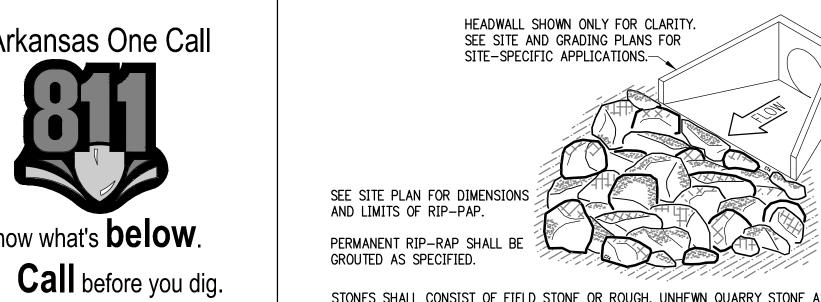
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CONSTRUCTION DETAILS

C-503

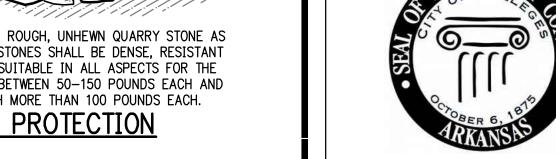


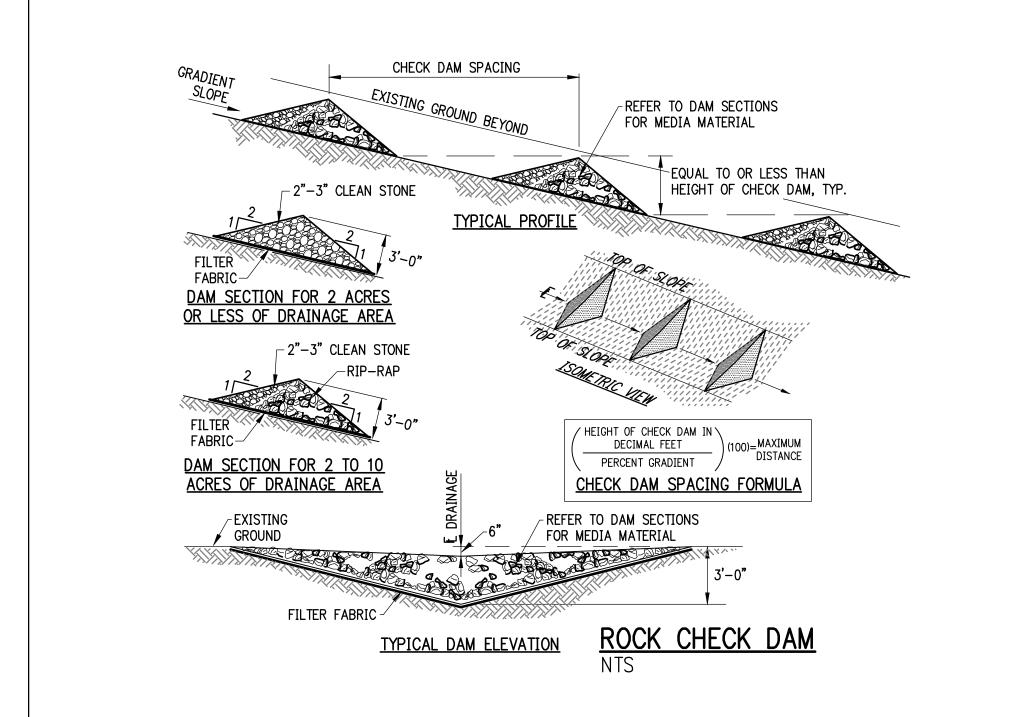


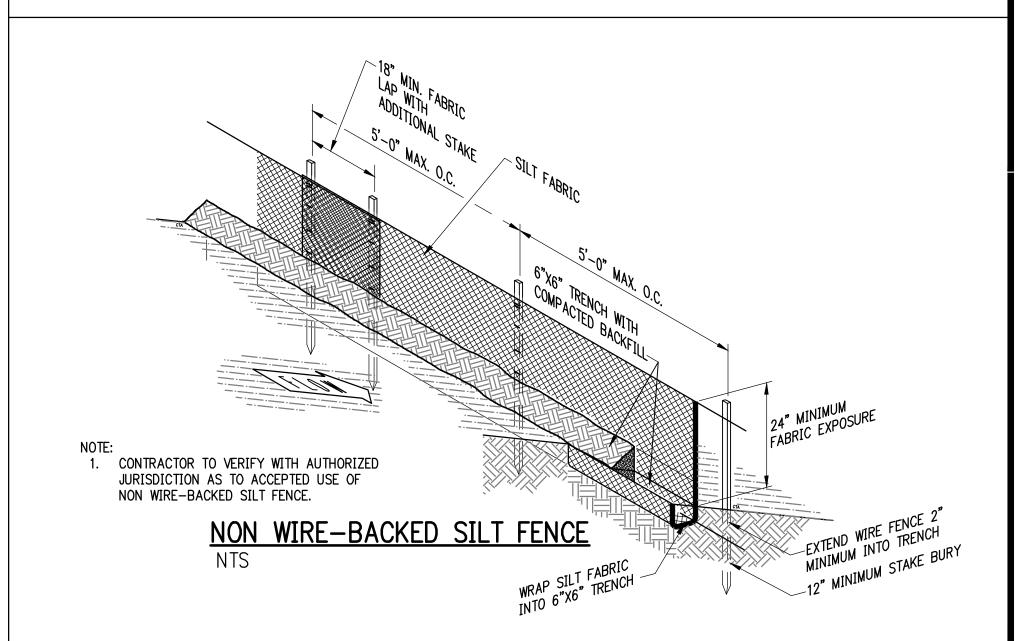


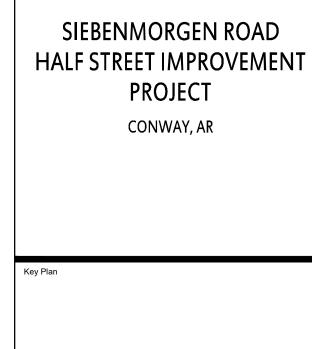
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STONES SHALL CONSIST OF FIELD STONE OR ROUGH, UNHEWN QUARRY STONE AS NEARLY UNIFORM IN SIZE AS PRACTICAL. STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF WIND AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE INTENDED USE. ALL STONES SHALL WEIGH BETWEEN 50-150 POUNDS EACH AND AT LEAST 60% OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. RIP-RAP SLOPE PROTECTION









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