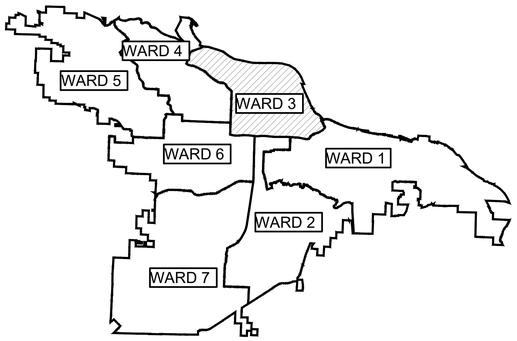
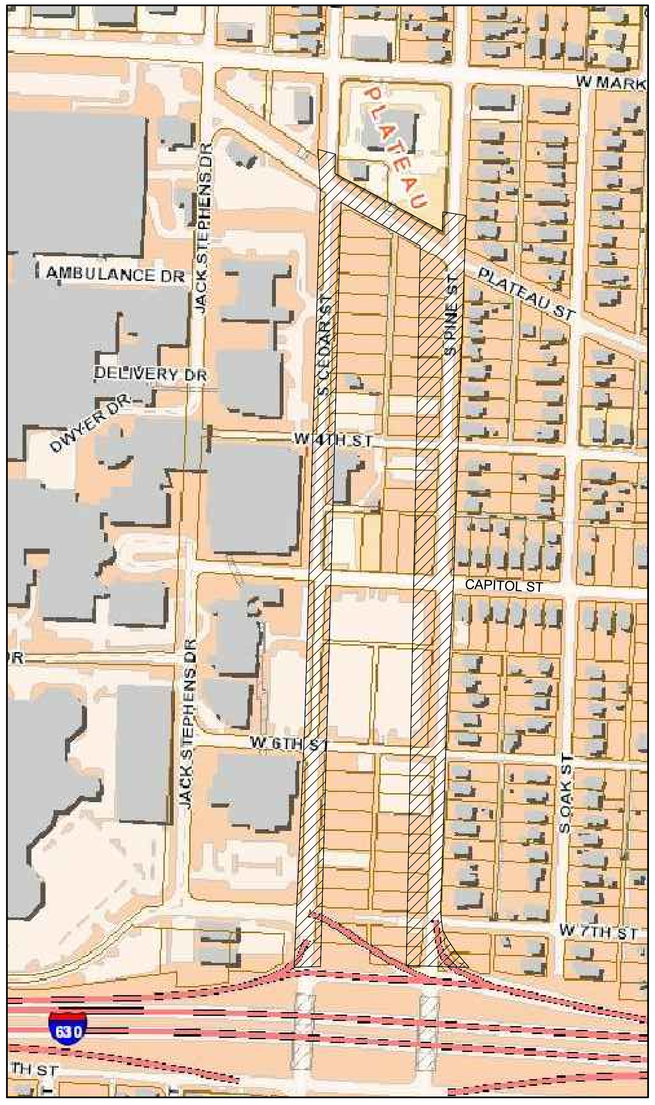
PINE CEDAR BOULEVARD LITTLE ROCK, AR



PROJECT LOCATION - WARD 3

VICINITY MAP



SHEET LIST:

C1.00: OVERALL R.O.W. PLAN
C1.01: GENERAL NOTES, LEGENDS & KEY MAP
C1.02: TYPICAL SECTIONS
C1.03: SPECIAL DETAILS
C2.01: SITE PREPARATION PLAN - 1
C2.02: SITE PREPARATION PLAN - 2
C2.03: SITE PREPARATION PLAN - 3
C3.01: ROADWAY PLAN AND PROFILE - 1
C3.02: ROADWAY PLAN AND PROFILE - 2
C3.03: ROADWAY PLAN AND PROFILE - 3
C3.04: ROADWAY PLAN AND PROFILE - 4
C3.05: ROADWAY PLAN AND PROFILE - 5
C4.01: GRADING & DRAINAGE - 1
C4.02: GRADING & DRAINAGE - 2
C4.03: GRADING & DRAINAGE - 3
C5.01: STRIPING & SIGNAGE PLAN - 1
C5.02: STRIPING & SIGNAGE PLAN - 2
C6.01: EROSION CONTROL - PHASE 1
C6.02: EROSION CONTROL - PHASE 2
C6.03: EROSION CONTROL - PHASE 3
E001: SCHEDULES, DETAILS, EXISTING SITE PLANS - ELECTRICAL
E101: SITE PLAN - ELECTRICAL
C7.01: TRAFFIC SIGNAL PLAN - 1
C8.01: CROSS SECTIONS - 1
C8.02: CROSS SECTIONS - 2
C8.03: CROSS SECTIONS - 3
C8.04: CROSS SECTIONS - 4
C8.05: CROSS SECTIONS - 5
C8.06: CROSS SECTIONS - 6
C8.07: CROSS SECTIONS - 7
C8.08: CROSS SECTIONS - 8
C11.01: MAINTENANCE OF TRAFFIC PLANS PHASE - I
C11.02: MAINTENANCE OF TRAFFIC PLANS PHASE - I
C11.03: MAINTENANCE OF TRAFFIC PLANS PHASE - II
C11.04: MAINTENANCE OF TRAFFIC PLANS PHASE - III
C11.05: MAINTENANCE OF TRAFFIC PLANS PHASE - IV
C11.06: MAINTENANCE OF TRAFFIC PLANS PHASE - V
C11.07: MAINTENANCE OF TRAFFIC PLANS PHASE - VI
C11.08: MAINTENANCE OF TRAFFIC PLANS PHASE - VI

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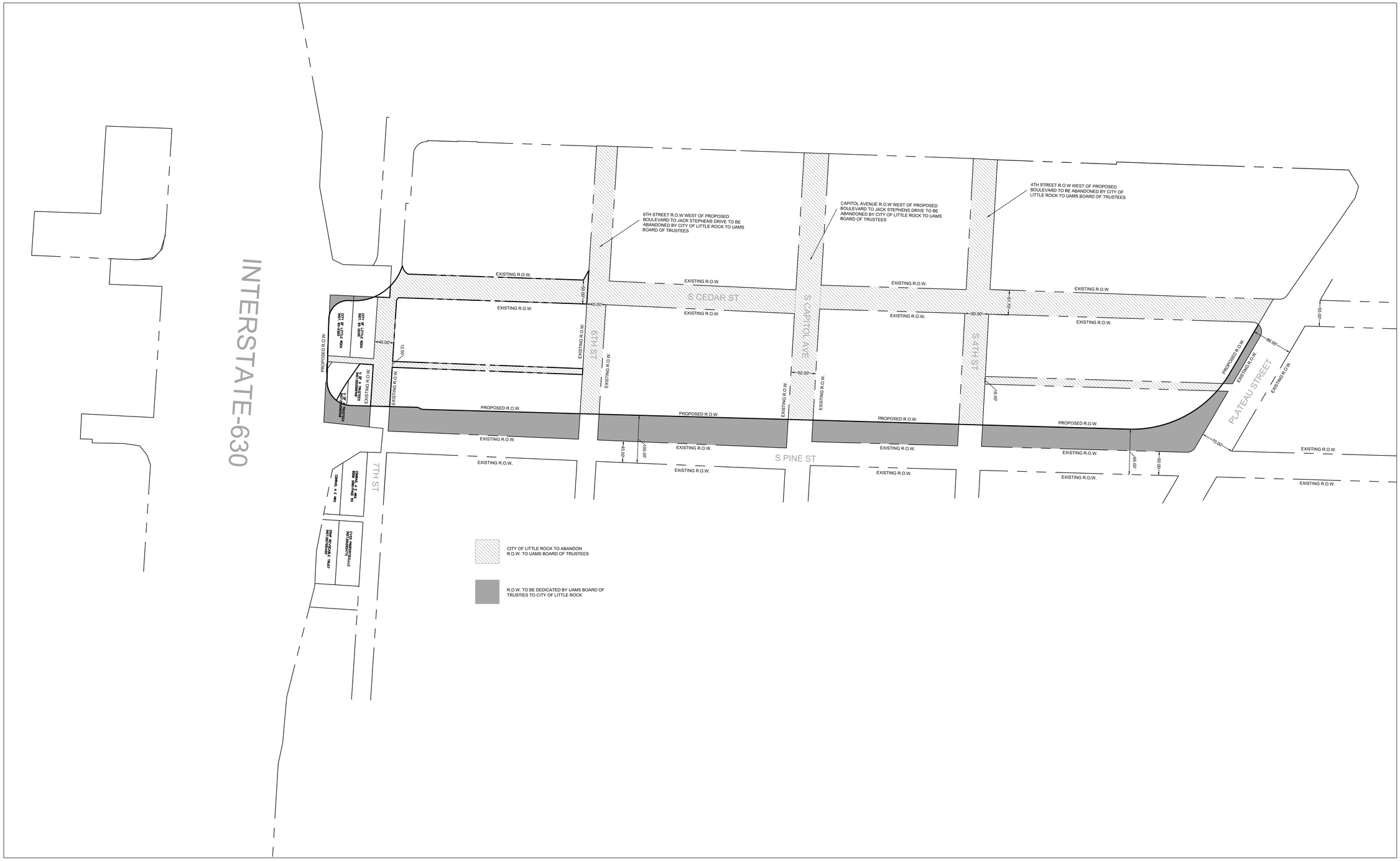
PUBLIC WORKS · CITY OF LITTLE ROCK ·

701 W. MARKHAM ST
LITTLE ROCK, AR 72201

UAMS
UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

4301 W. MARKHAM ST
LITTLE ROCK, AR 72205



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1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION
BERNHARDT ENERGY DEVELOPMENT CONSULTANTS INC.
No. 128
ARKANSAS - ENGINEER - 2019

CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14042
BENJAMIN L. RUDDELL

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
OVERALL R.O.W. PLAN

SHEET NUMBER:
C1.00

LEGEND

FOUND MONUMENT	
SET 5/8" REBAR	
FIRE HYDRANT	
WATER VALVE	
WATER METER	W
GAS METER	G
POWER POLE	
POWER POLE W/ LIGHT	
GUY WIRE	
TELEPHONE PEDESTAL	
ELECTRIC METER	EM
SANITARY SEWER MANHOLE	S
SIGN	
WATER LINE	WA
GAS LINE	GAS
OVERHEAD ELECTRIC	OHE
UNDERGROUND TELEPHONE	UGT
IRRIGATION VALVE	IRR
BACK FLOW PREVENTER	RPZ

LEGEND

PROPOSED CONTOUR	300
PROPOSED SPOT ELEVATION	300
JUNCTION BOX	
CURB INLET SINGLE WING	
CURB INLET DOUBLE WING	
TRAFFIC SIGNAL	

LINETYPE LEGEND

PROPOSED ROW	
PROPOSED CURB AND GUTTER	
WATER LINE	WA 8 — WA 8
SEWER LINE	SS 4
UNDERGROUND ELECTRIC	UGE — UGE
NATURAL GAS	GAS 2 — GAS 2 — GAS 2
UNDERGROUND TELEPHONE	UGT — UGT
UNDERGROUND CABLE/COMM	UGC — UGC
PROPOSED STORM DRAIN	
CUT LINE	C C C C C C C C
FILL LINE	F F F F F F F F

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION, PAYMENT, AND ACQUISITION OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT.
2. LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON RECORDS FROM SAID UTILITY COMPANIES AND ARE HORIZONTALLY FIELD LOCATED ONLY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL LOCATION.
3. CONTRACTOR TO MARK UTILITY LINES BEFORE CONSTRUCTION AND UNCOVER AS NEEDED.
4. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
5. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
6. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITION.
7. ALL SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE LITTLE ROCK WASTEWATER UTILITY STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION, LATEST EDITION.
8. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CENTRAL ARKANSAS WATER STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
9. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECT AND ADJUSTED TO MATCH PROPOSED GRADE.
10. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
11. ALL AREAS WITHIN THE PARKING LOT ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
12. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
13. AFTER NEW INLETS ARE CONSTRUCTED, GRAVEL FILTER BERMS OR SILT FENCE ARE TO BE PLACED TO ALLOW FLOW THROUGH THE EROSION CONTROL DEVICE.
14. CONTRACTOR WILL CONTROL AND PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF AND SEDIMENT TO ADJACENT PROPERTY AND PUBLIC ROADS.
15. CONTRACTOR IS TO PROTECT EXISTING STORM DRAINAGE SYSTEM ACCORDING TO PROTECTION ILLUSTRATIONS PROVIDED.
16. CONTRACTOR TO CONFORM TO ALL CONSTRUCTION STORM WATER AND EROSION CONTROL PERMITTING REQUIREMENTS BY "EPA PHASE II STORM WATER REGULATIONS" AS ADMINISTERED BY THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ). WHERE PERMITTING IS REQUIRED, A COPY OF THE NOTICE OF INTENT SHALL BE PROVIDED TO THE LOCAL MUNICIPAL AUTHORITY.
17. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-8998 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
18. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS AND PAVING TO LITTLE ROCK AND/OR ADA STANDARDS. VERIFY.
19. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
20. CONTRACTOR SHALL COORDINATE WITH CENTERPOINT ENERGY FOR GAS LINE AND METER INSTALLATION.
21. ELECTRICAL INFORMATION SHOWN FOR COORDINATION PURPOSES ONLY. SEE MEP SHEETS FOR DETAILS AND SPECIFICATIONS.
22. CONTRACTOR SHALL NOTIFY ENGINEER AND REVIEW ALL REVISIONS TO THE PLANS PRIOR TO EXECUTING A CHANGE.
23. ALL FEATURES IN RIGHT OF WAY TO BE REMOVED UNLESS OTHERWISE NOTED.

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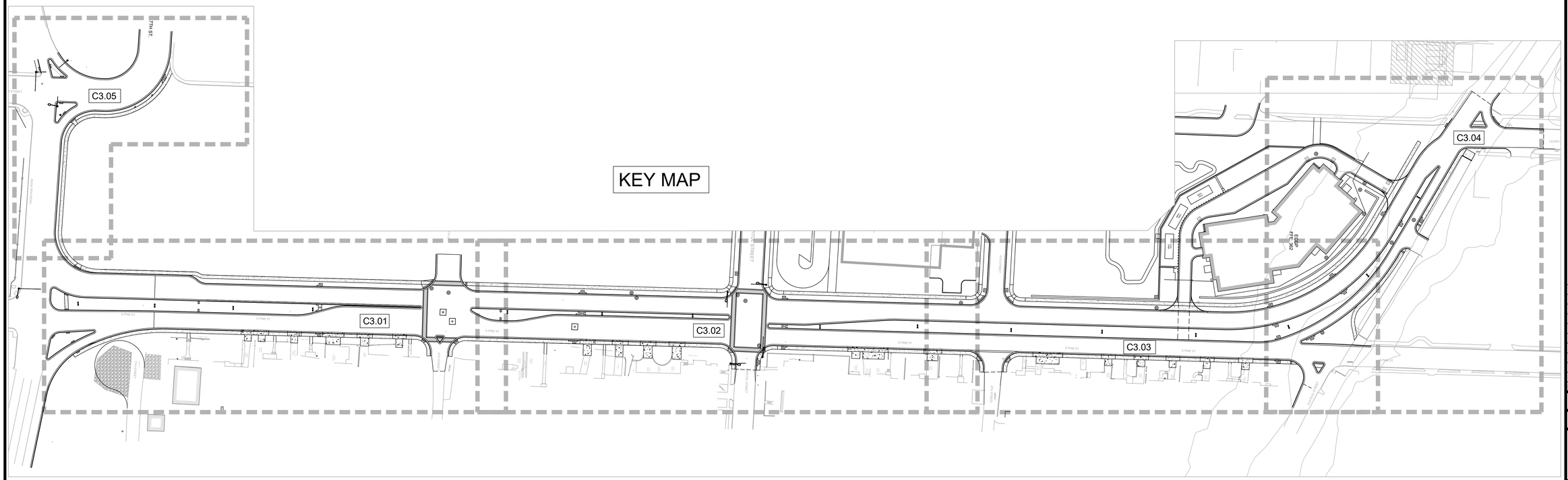
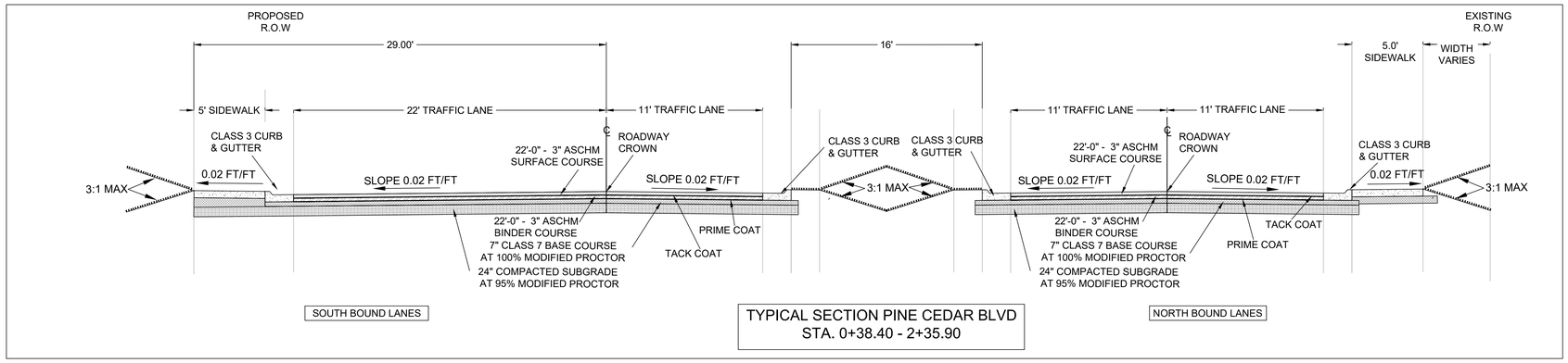
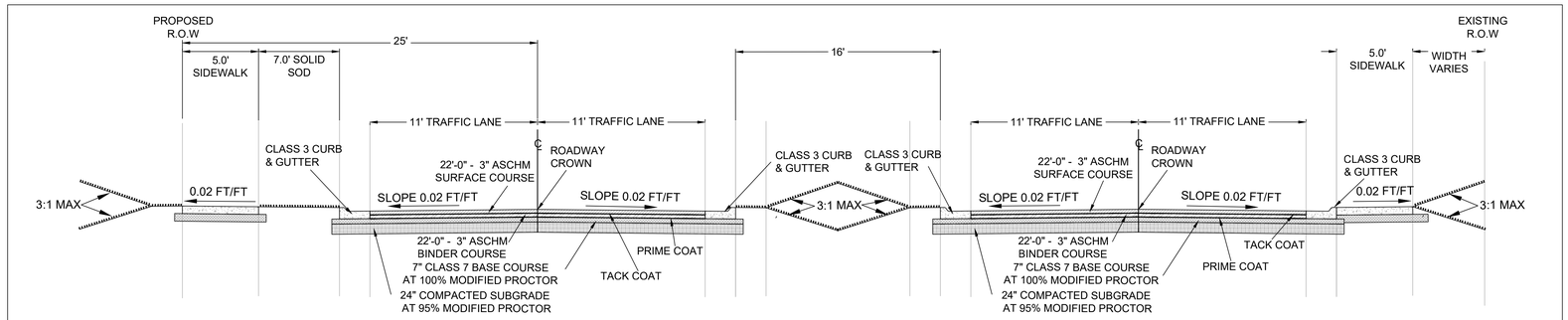
KEY MAP

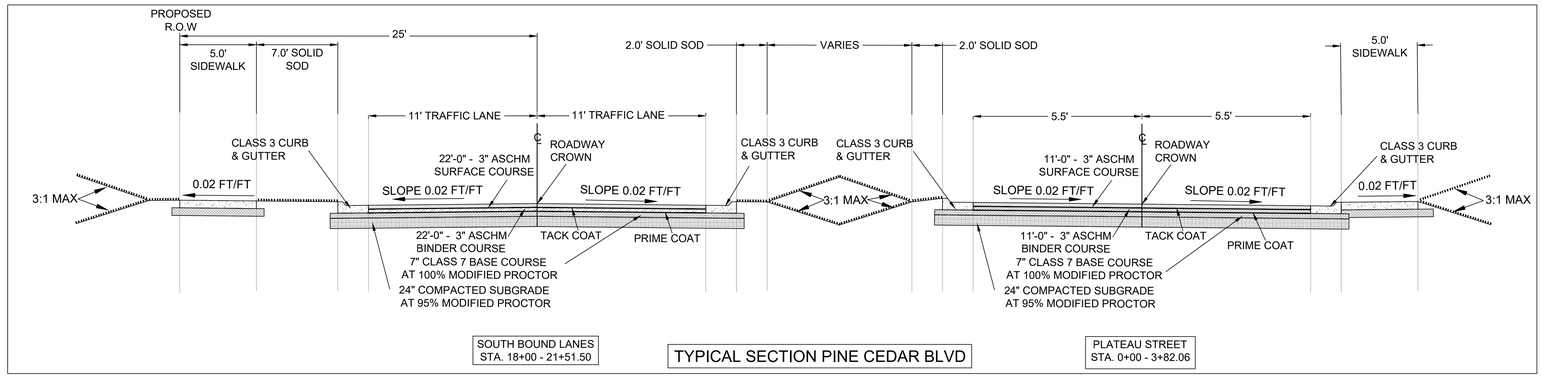

C3.05
C3.01
C3.02
C3.03
C3.04
7TH ST
S PINE ST
S MAPLE STREET
S CHESTNUT ST
S BOYLE ST
S BROADWAY
S CROCKETT ST
S CEDAR ST
S ELM ST
S ELM ST
S ELM



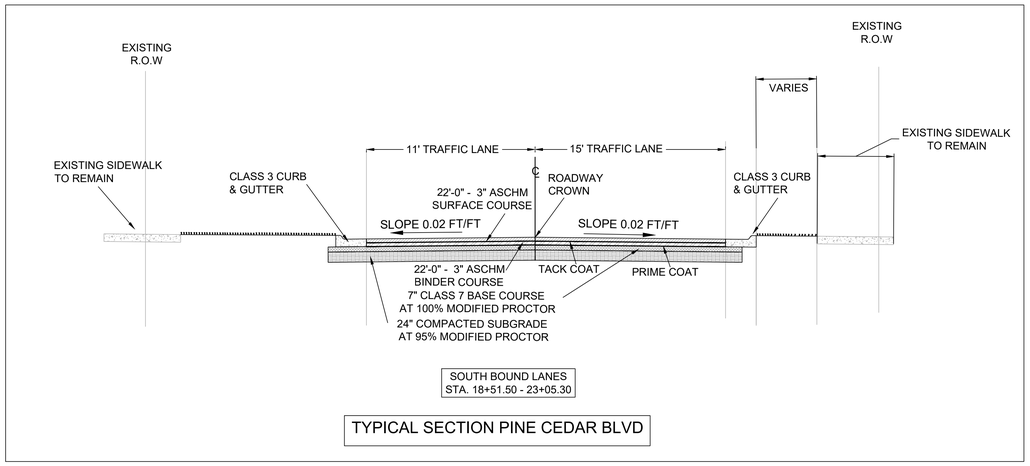
TYPICAL SECTION PINE CEDAR BLVD
STA. 0+38.40 - 2+35.90



TYPICAL SECTION PINE CEDAR BLVD
STA. 2+35.90 - 18+00.00



TYPICAL SECTION PINE CEDAR BLVD



TYPICAL SECTION PINE CEDAR BLVD

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Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION
DEVELOPMENT CONSULTANTS INC.
No. 128
ARKANSAS - ENGINEER - NO. 1
CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14942
BENJAMIN L. KLODGES
ENGINEER SEAL

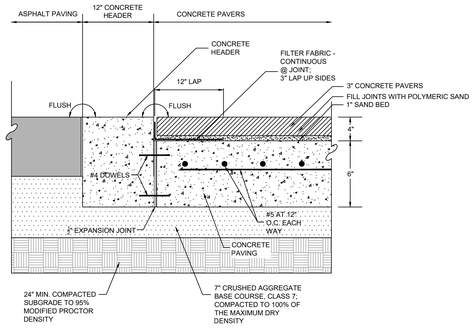
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

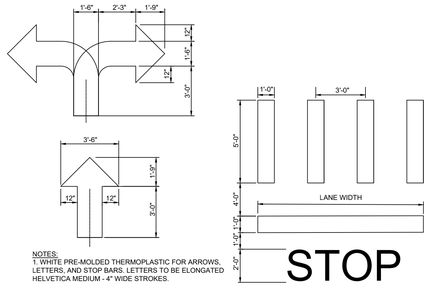
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
TYPICAL SECTIONS

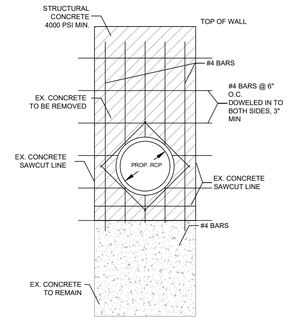
SHEET NUMBER:
C1.02



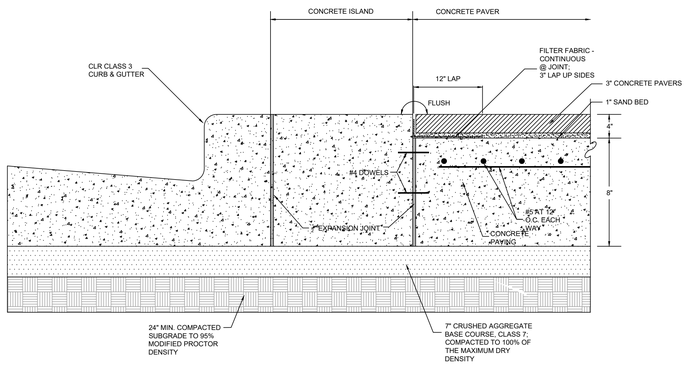
SP-1 N.T.S. PAVERS AT CONCRETE HEADER IN PAVEMENT SECTION - TYPICAL



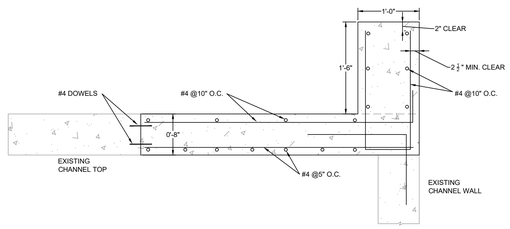
SP-2 N.T.S. PAVEMENT MARKINGS



SP-3 N.T.S. DRAINAGE OUTFALL



SP-4 N.T.S. PAVERS AT CONCRETE CONCRETE ISLANDS ADJACENT TO CURB



SP-5 N.T.S. REINFORCED CONCRETE CHANNEL TOP WITH PARAPET WALL

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Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION — DEVELOPMENT CONSULTANTS INC. — No. 128 — ARKANSAS - ENGINEER - JOINT

CORPORATE SEAL

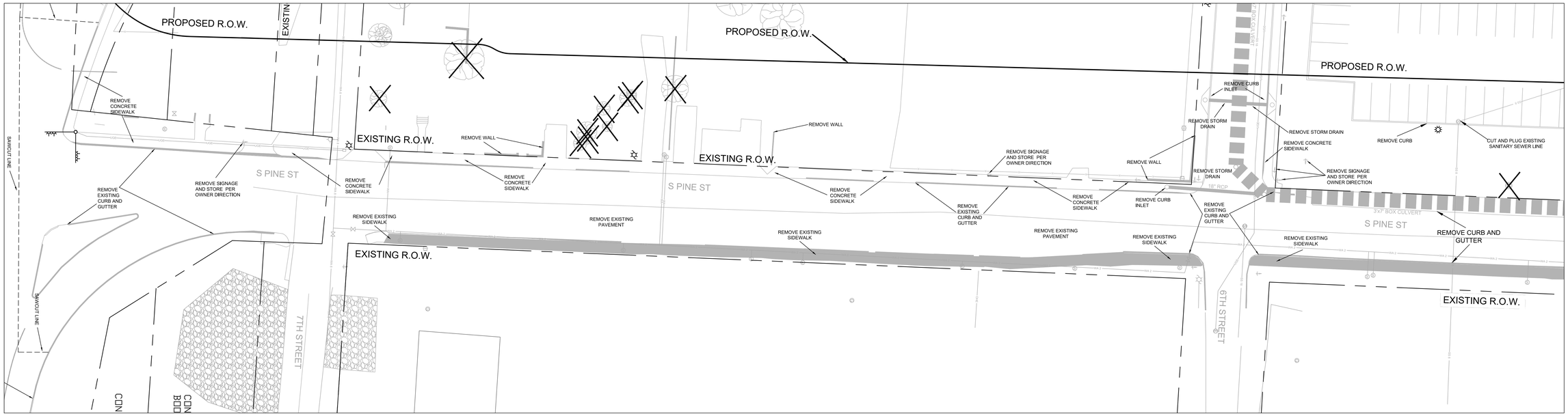
STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14942 — BENJAMIN L. KUDDES

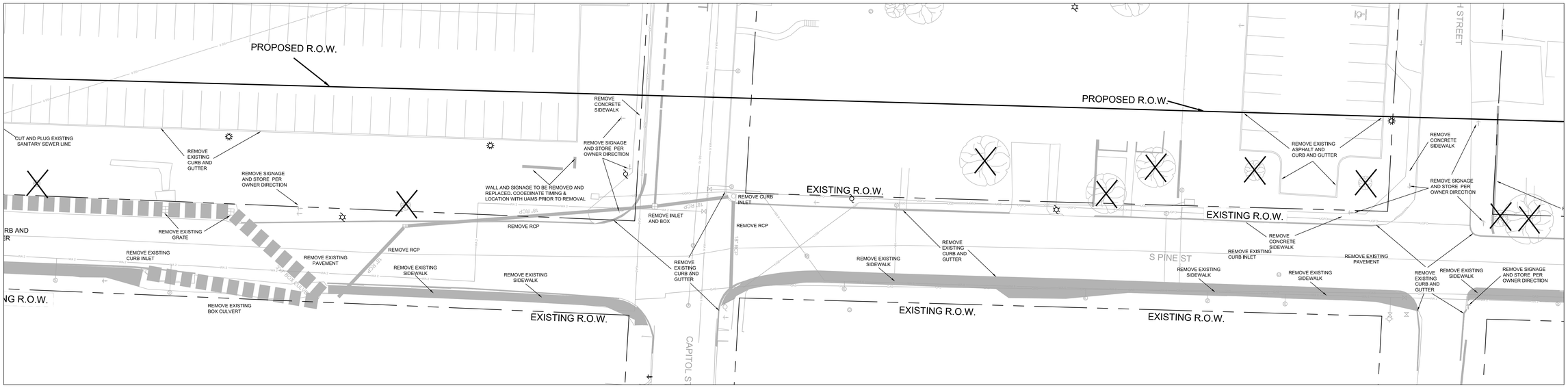
ENGINEER SEAL

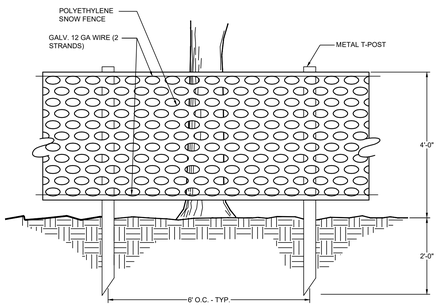
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE: 09/21/20
PROJECT NUMBER: 77-19-0028
SHEET TITLE: SPECIAL DETAILS
SHEET NUMBER: C1.03







1 TREE PROTECTION FENCE
NTS

REMOVE TREE AND STUMP

ALL OTHER TREES NOT SHOWN TO BE REMOVED ARE TO BE PROTECTED PER DETAIL 1.

TREE PROTECTION FENCING SHALL CONSIST OF ORANGE CONSTRUCTION FENCING AND T-POSTS PLACED AT THE PERIMETER OF THE TREE'S DRIP LINE (SEE DETAIL). STORAGE OF MATERIALS, PARKING OF VEHICLES OR EQUIPMENT, PLACEMENT OF CONSTRUCTION TRAILERS AND/OR FOOT AND VEHICULAR TRAFFIC INSIDE THE TREE PROTECTION FENCING SHALL BE STRICTLY FORBIDDEN.

GENERAL DEMOLITION NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THOROUGH KNOWLEDGE OF THE EXISTING SITE FEATURES, UTILITIES AND STORM DRAINAGE.
2. ITEMS NOT SHOWN TO BE REMOVED ON THIS PLAN BUT INSIDE THE PROJECT LIMITS AND IN THE WAY OF PROPOSED IMPROVEMENTS SHALL BE REMOVED. LIMITS CONSISTS OF ALL AREAS OF DISTURBANCE FOR CONSTRUCTION OF THE PROJECT.
3. UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE UTILITY AUTHORITY HAVING JURISDICTION.
4. NOTICE OF DISRUPTION TO UTILITY SERVICES SHALL BE COORDINATED WITH OWNER / ARCHITECT 72 HOURS IN ADVANCE.

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20 10 0 20 40
SCALE

Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS - ENGINEER - NOV 30, 2021
CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KUDDES
ENGINEER SEAL

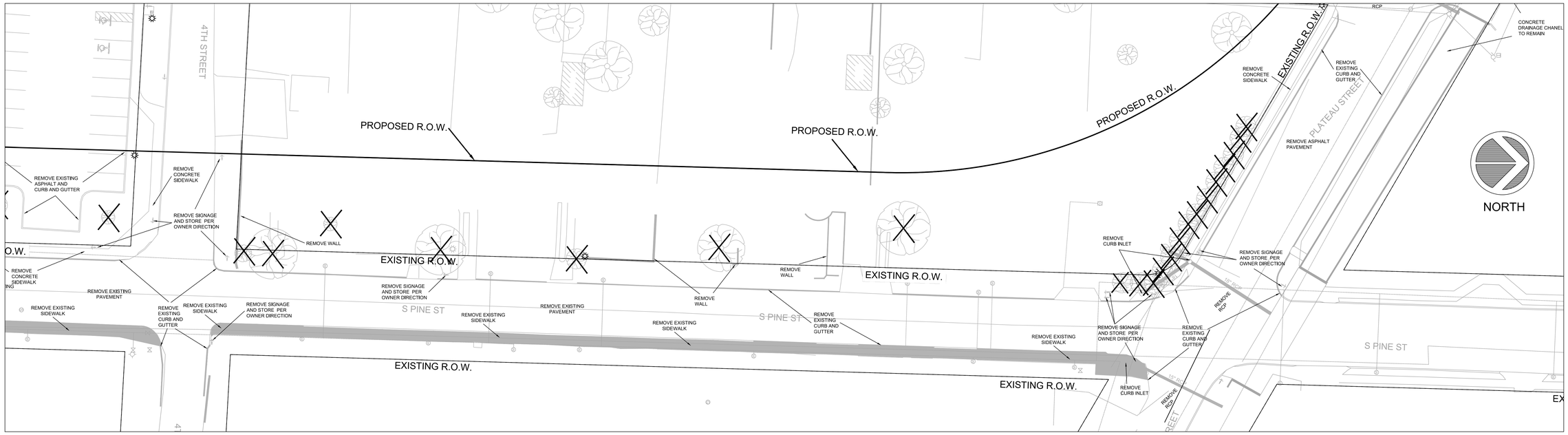
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

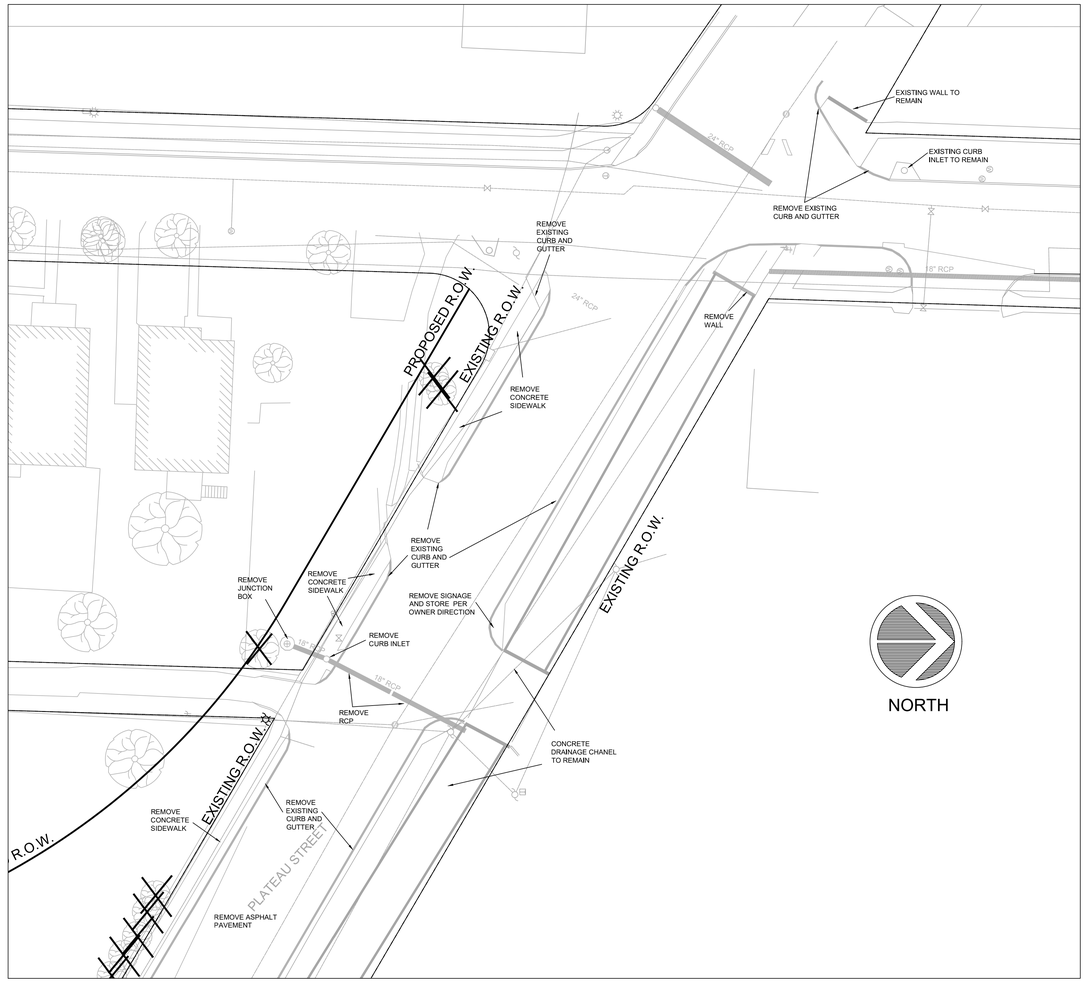
MARK	DATE	DESCRIPTION
1	-	-

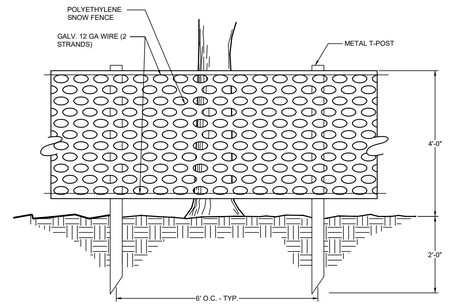
ISSUE DATE: 09/21/20
PROJECT NUMBER: 77-19-0028

SHEET TITLE:
SITE PREPARATION PLAN - 1

SHEET NUMBER:
C2.01







1 TREE PROTECTION FENCE
NTS

GENERAL DEMOLITION NOTES:

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3. UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE UTILITY AUTHORITY HAVING JURISDICTION.
4. NOTICE OF DISRUPTION TO UTILITY SERVICES SHALL BE COORDINATED WITH OWNER / ARCHITECT 72 HOURS IN ADVANCE.

REMOVE TREE AND STUMP

ALL OTHER TREES NOT SHOWN TO BE REMOVED ARE TO BE PROTECTED PER DETAIL 1.

TREE PROTECTION FENCING SHALL CONSIST OF ORANGE CONSTRUCTION FENCING AND T-POSTS PLACED AT THE PERIMETER OF THE TREE'S DRIP LINE (SEE DETAIL). STORAGE OF MATERIALS, PARKING OF VEHICLES OR EQUIPMENT, PLACEMENT OF CONSTRUCTION TRAILERS AND/OR FOOT AND VEHICULAR TRAFFIC INSIDE THE TREE PROTECTION FENCING SHALL BE STRICTLY FORBIDDEN.

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20 10 0 20 40
SCALE

Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
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tme@bernhardtme.com

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ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

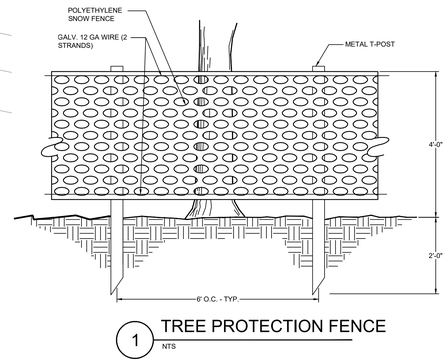
SITE PREPARATION PLAN - 2

SHEET NUMBER:

C2.02

GENERAL DEMOLITION NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THOROUGH KNOWLEDGE OF THE EXISTING SITE FEATURES, UTILITIES AND STORM DRAINAGE.
2. ITEMS NOT SHOWN TO BE REMOVED ON THIS PLAN BUT INSIDE THE PROJECT LIMITS AND IN THE WAY OF PROPOSED IMPROVEMENTS SHALL BE REMOVED. LIMITS CONSISTS OF ALL AREAS OF DISTURBANCE FOR CONSTRUCTION OF THE PROJECT.
3. UTILITIES TO BE REMOVED SHALL BE COORDINATED WITH THE UTILITY AUTHORITY HAVING JURISDICTION.
4. NOTICE OF DISRUPTION TO UTILITY SERVICES SHALL BE COORDINATED WITH OWNER / ARCHITECT 72 HOURS IN ADVANCE.
5. CONTRACTOR TO COORDINATE ALL DEMOLITION WORK WITH ARDOT, CITY OF LITTLE ROCK, UAMS AND ENGINEER PRIOR TO REMOVING SIGNAGE, STRIPING, SIGNALS OR ANY OTHER FEATURES REGARDING TO TRAFFIC AND PEDESTRIAN SAFETY.



1 TREE PROTECTION FENCE
NTS

REMOVE TREE AND STUMP

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20 10 0 20 40

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1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS, INC. No.128 ARKANSAS - ENGINEER - NO. 1

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. RUDDES

ENGINEER SEAL

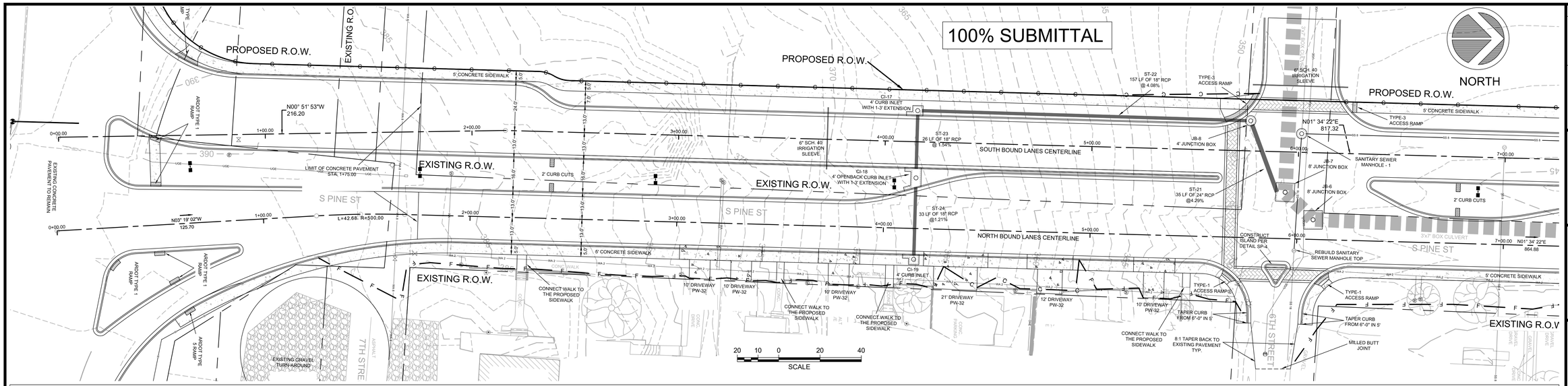
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

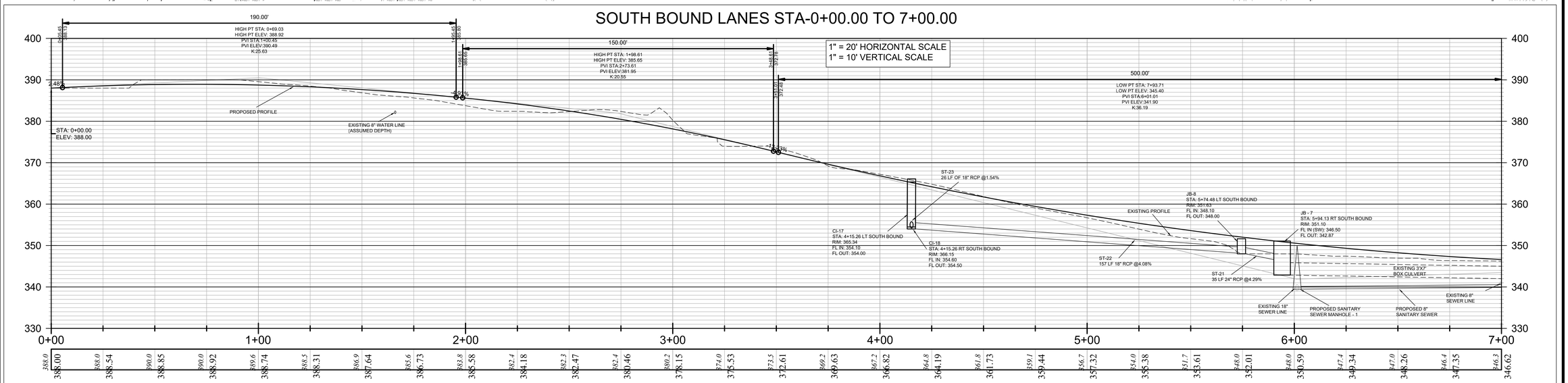
MARK	DATE	DESCRIPTION

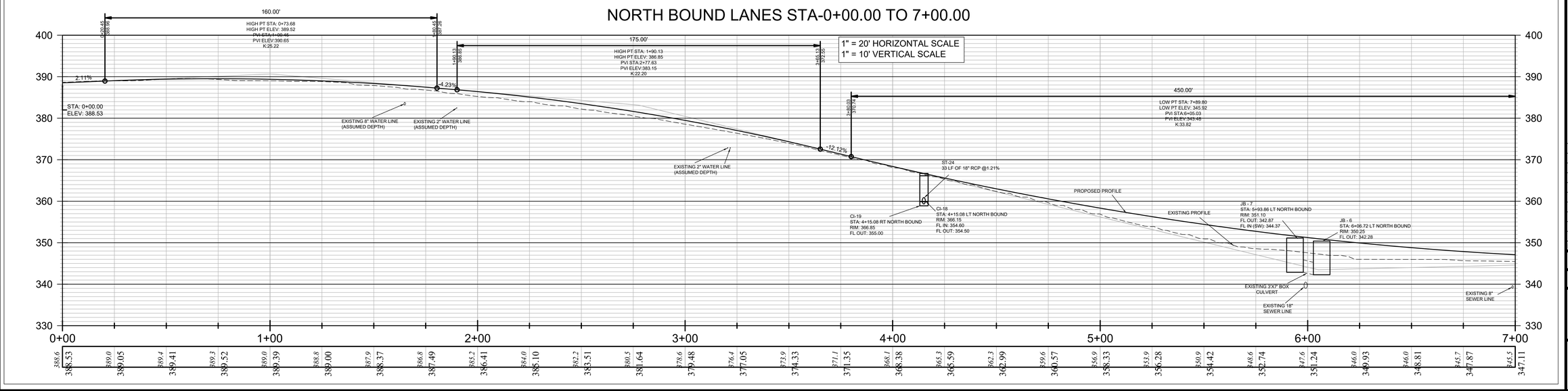
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
SITE PREPARATION PLAN - 3

SHEET NUMBER:
C2.03







Bernhard Energy Solutions

1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS No. 128 ARKANSAS - ENGINEER - NO. 1

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KLODES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

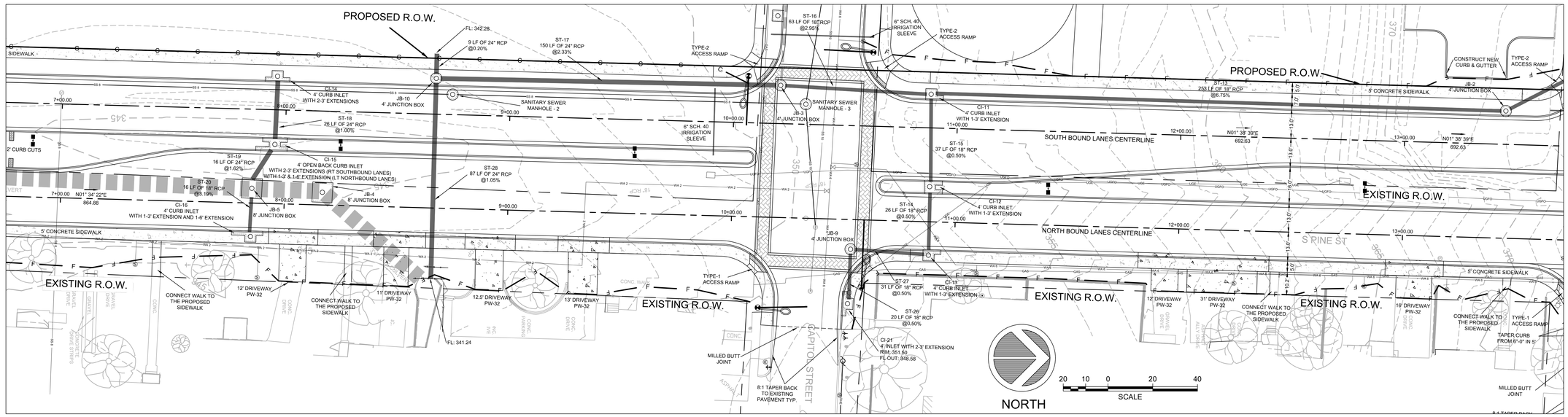
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

ROADWAY PLAN & PROFILE - 1

SHEET NUMBER:

C3.01



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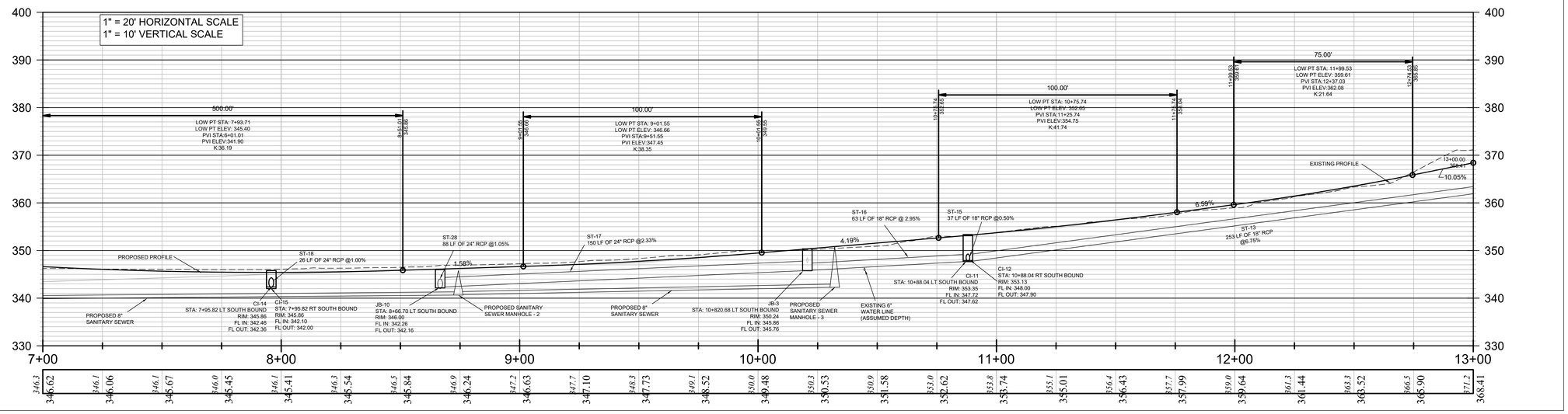

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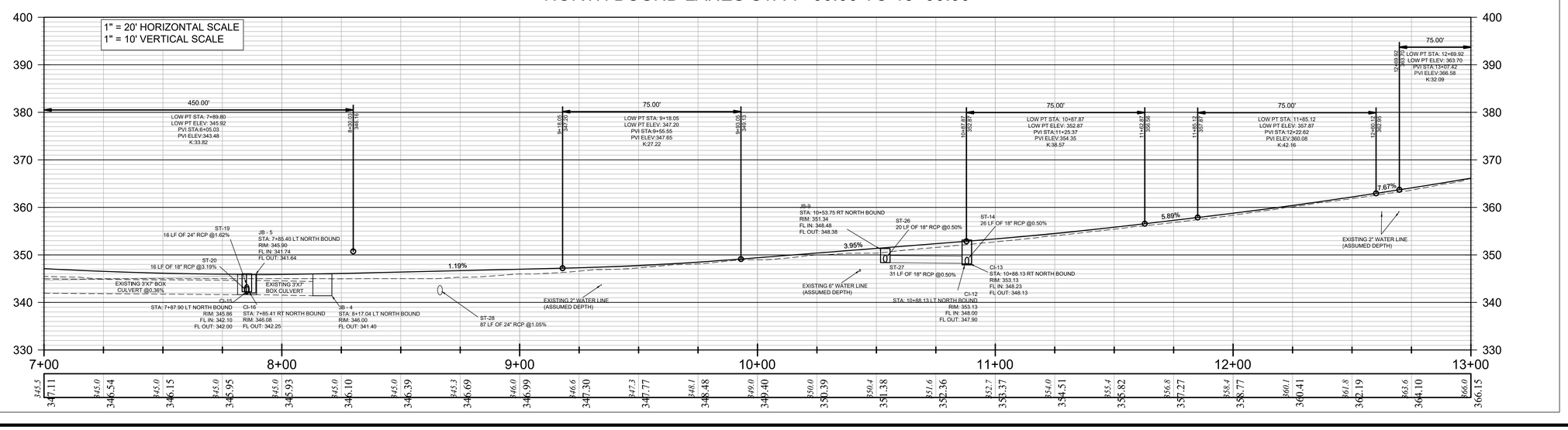

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Fax: (501) 663-8888
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CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS, INC. No.128 ARKANSAS - ENGINEER - NON-PE

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KIDDER

ENGINEER SEAL

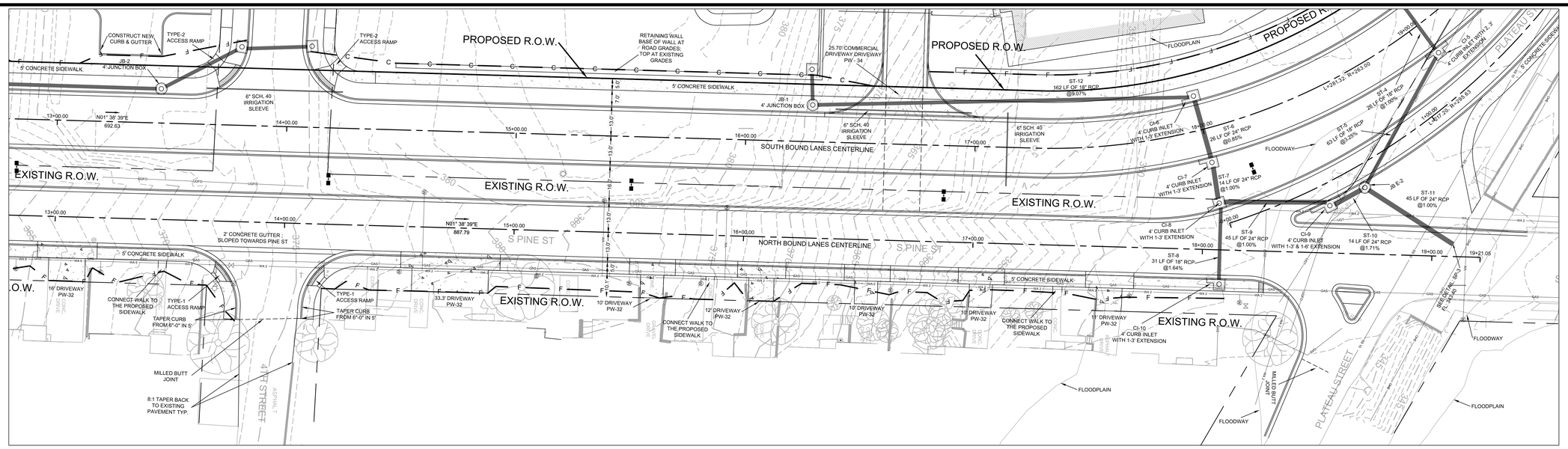
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
ROADWAY PLAN & PROFILE - 2

SHEET NUMBER:
C3.02



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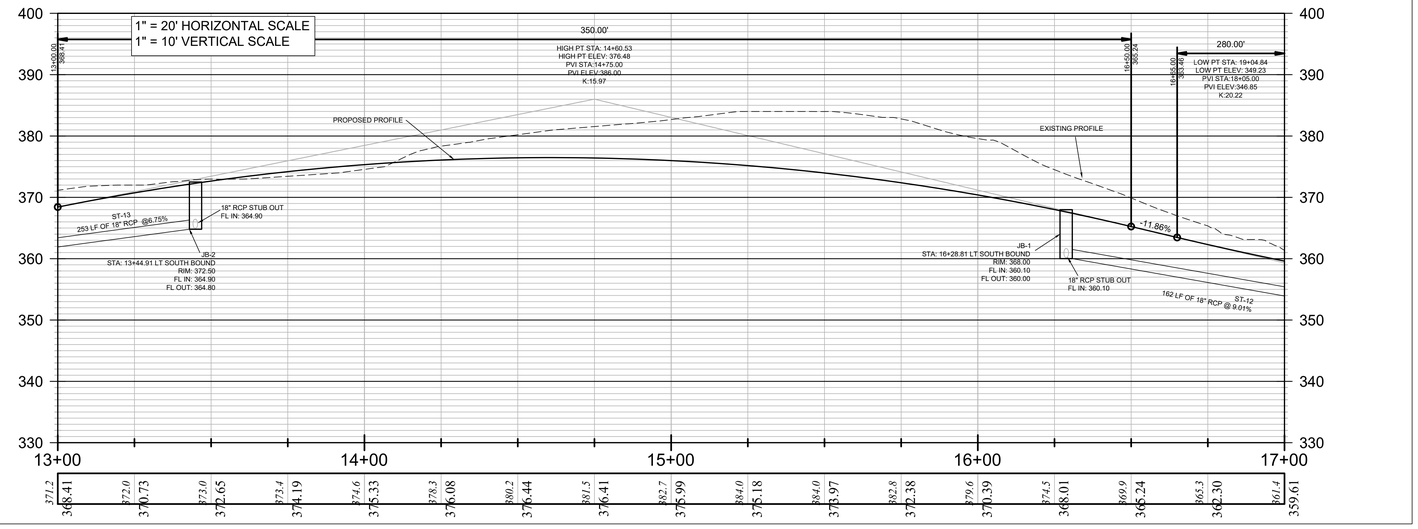

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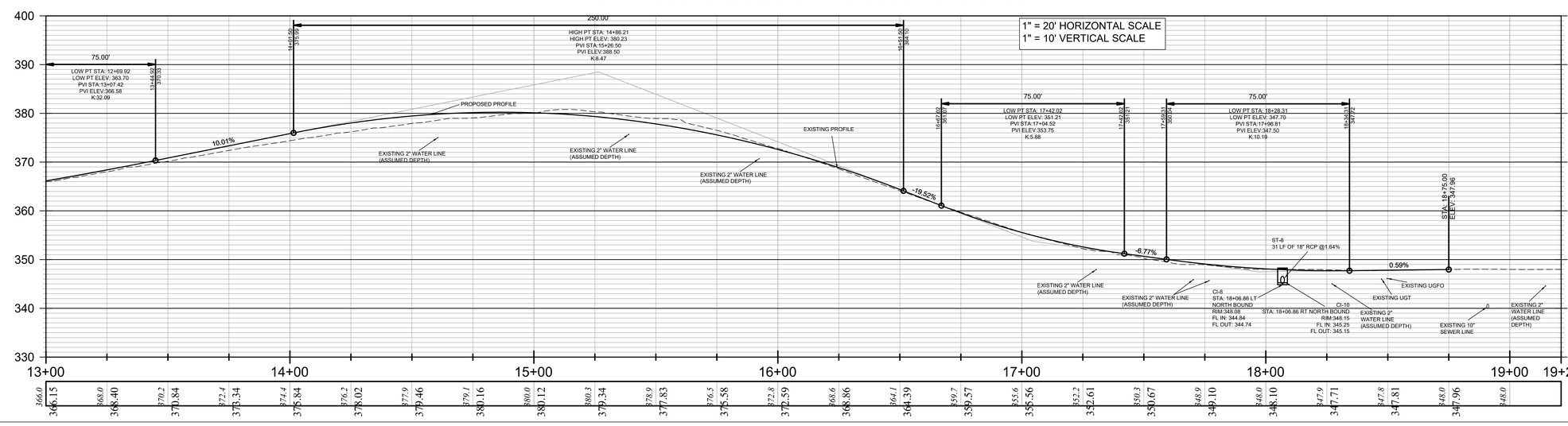

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tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS No. 128 ARKANSAS - ENGINEER - NOV 1, 20

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14942 BENJAMIN L. KUDDES

ENGINEER SEAL

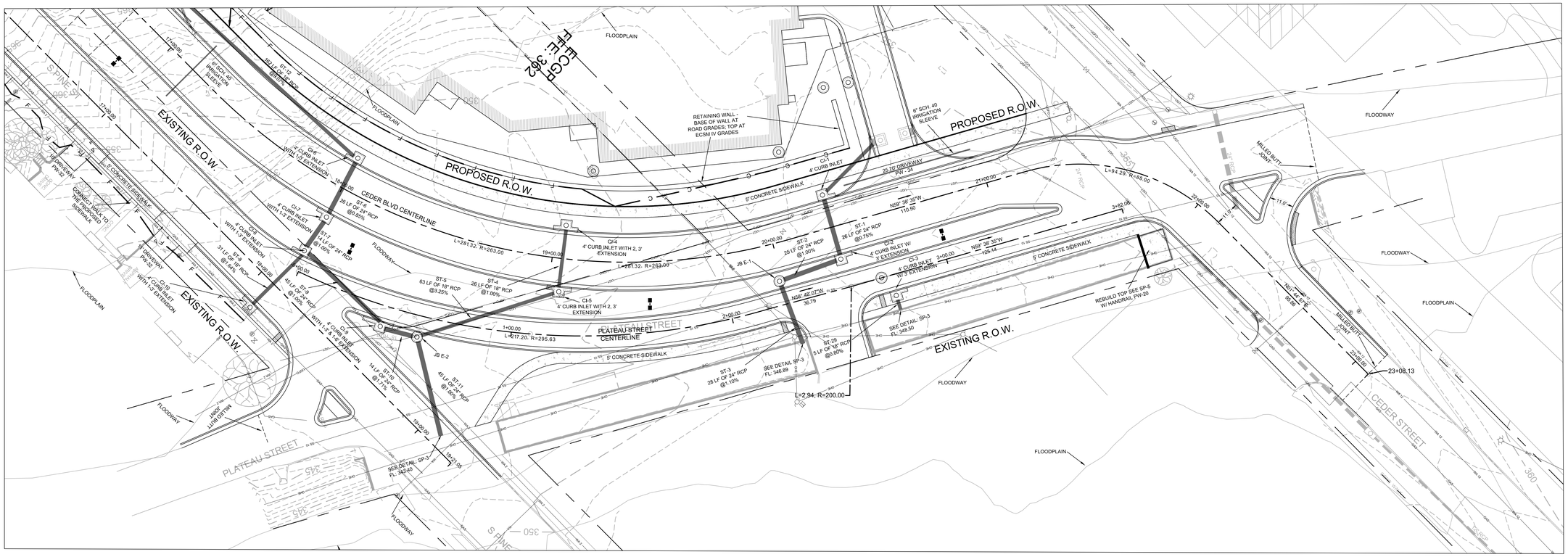
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
ROADWAY PLAN & PROFILE - 3

SHEET NUMBER:
C3.03



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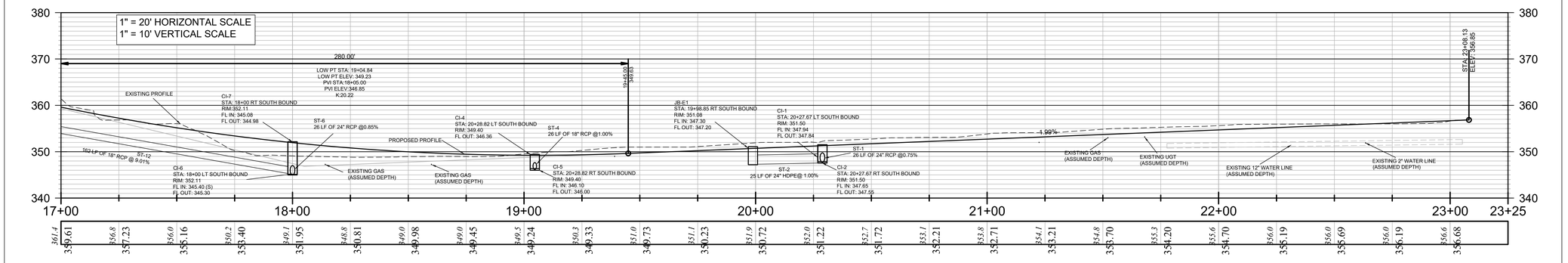

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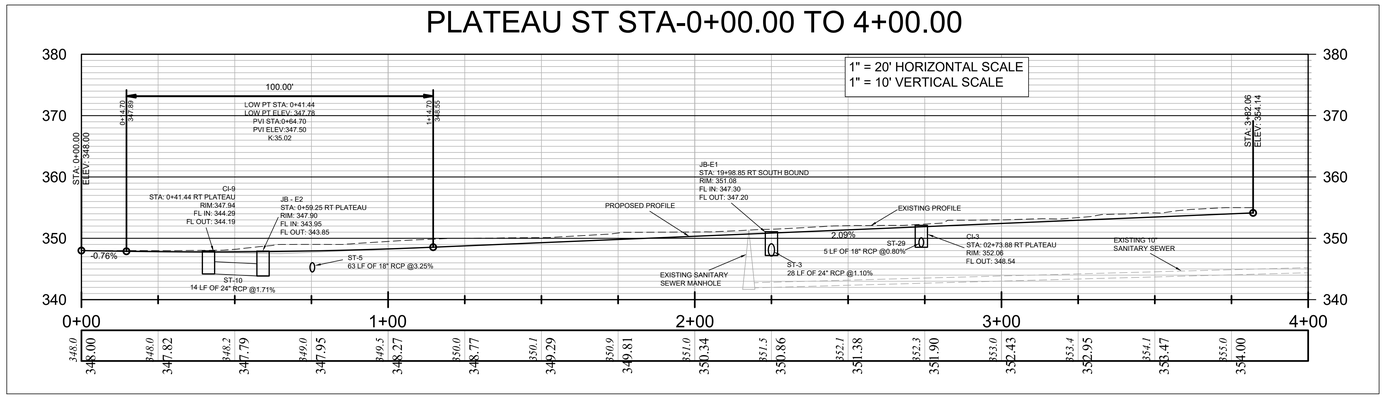

100% SUBMITTAL

NORTH

SCALE 20 10 0 20 40

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SUITE 2600
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Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION — DEVELOPMENT CONSULTANTS INC. — No.128 — ARKANSAS ENGINEER

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14942 — BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

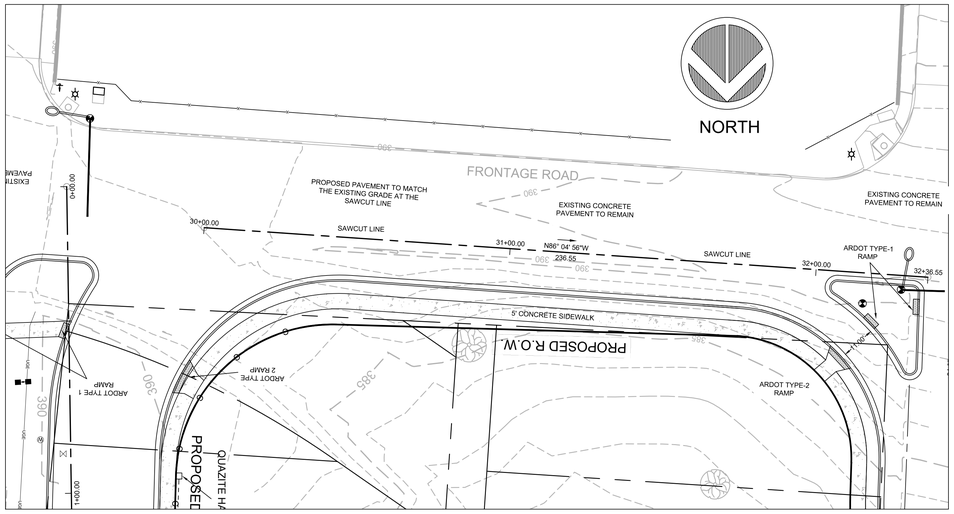
MARK	DATE	DESCRIPTION
ISSUE DATE:		09/21/20
PROJECT NUMBER:		77-19-0028

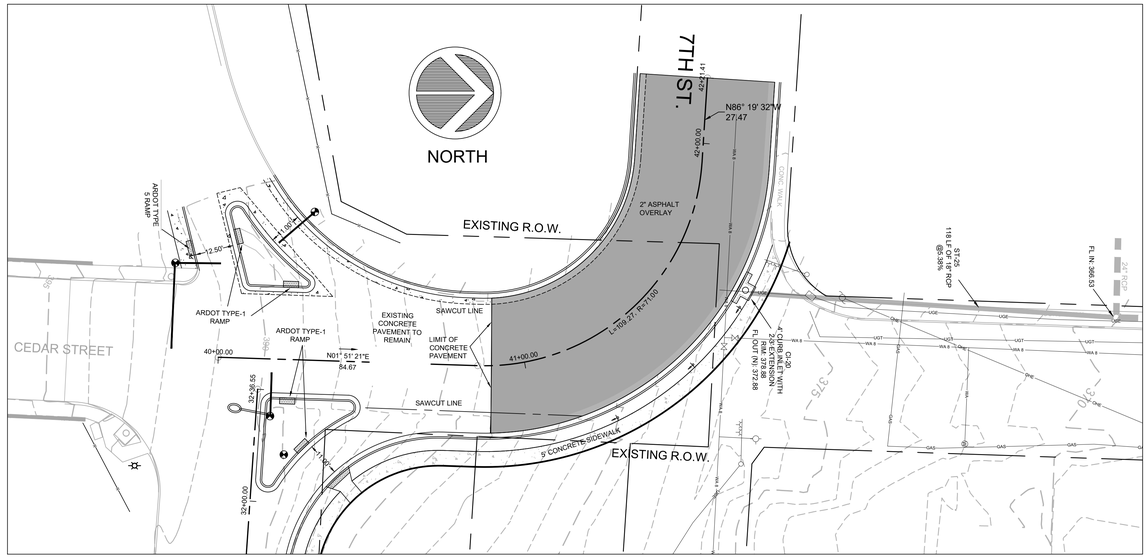
SHEET TITLE:

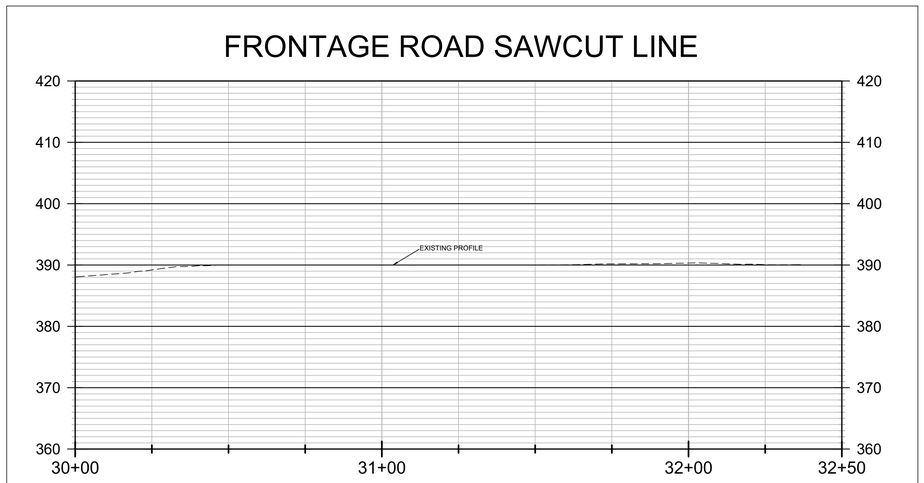
ROADWAY PLAN & PROFILE - 4

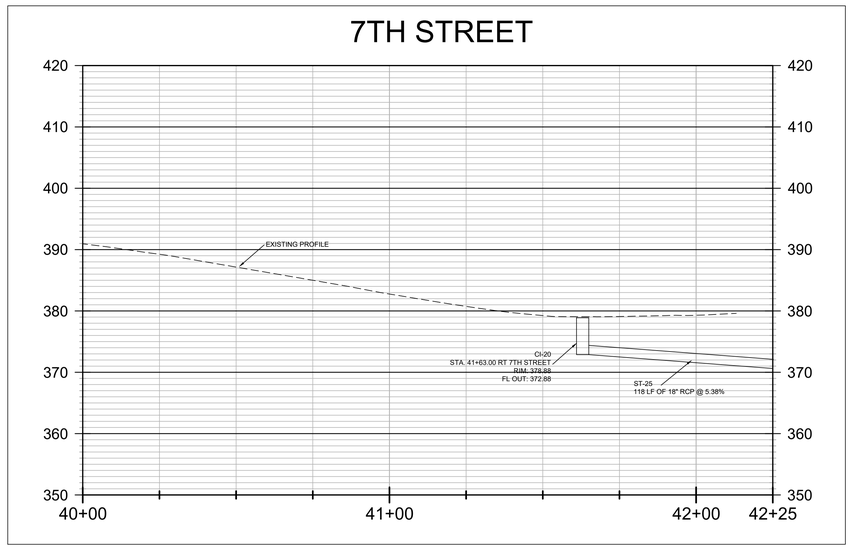
SHEET NUMBER:

C3.04









20 10 0 20 40
SCALE

100% SUBMITTAL

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SUITE 2600
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Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS - ENGINEER - NW
CORPORATE SEAL

STATE OF ARKANSAS BENJAMIN L. KUDDES REGISTERED PROFESSIONAL ENGINEER No. 14942
ENGINEER SEAL

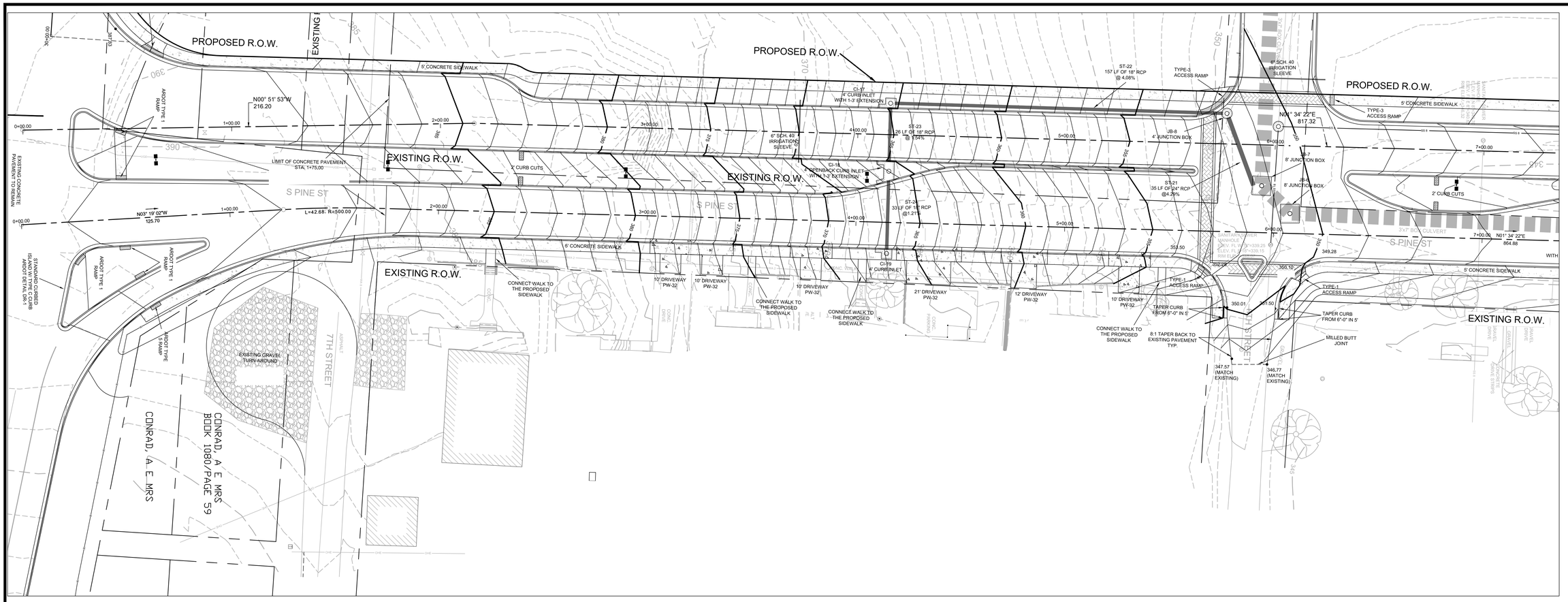
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

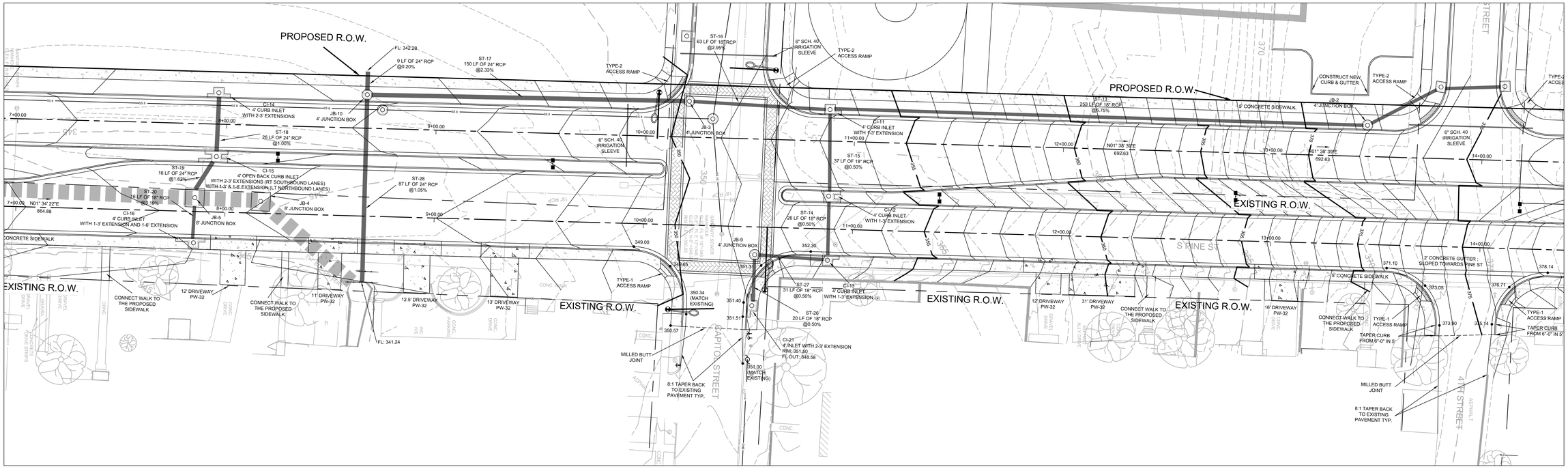
MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
ROADWAY PLAN & PROFILE - 5

SHEET NUMBER:
C3.05





100% SUBMITTAL

NORTH

20 10 0 20 40

SCALE

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SUITE 2600
LITTLE ROCK, AR 72202
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Fax: (501) 663-8888
tme@bernhardtme.com

CORPORATE SEAL

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

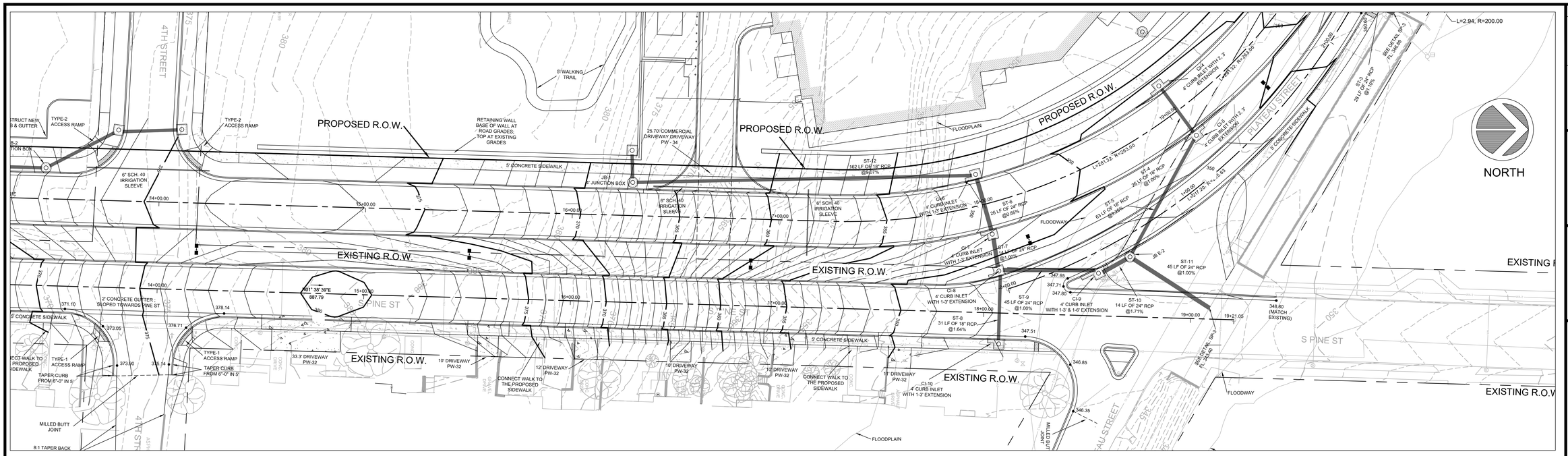
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

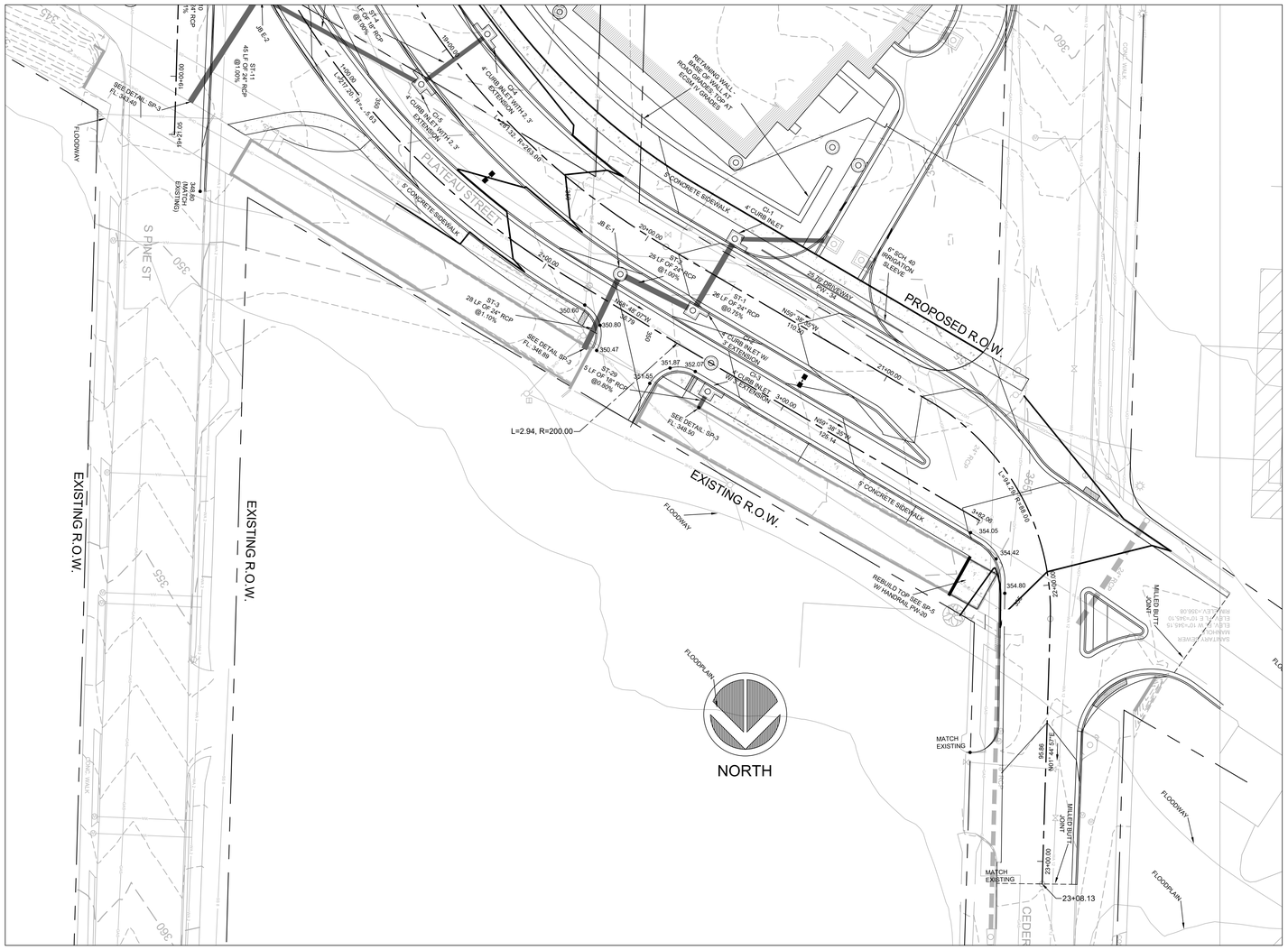
SHEET TITLE:

GRADING & DRAINAGE - 1

SHEET NUMBER:

C4.01





100% SUBMITTAL

20 10 0 20 40
SCALE

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1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CORPORATE SEAL

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

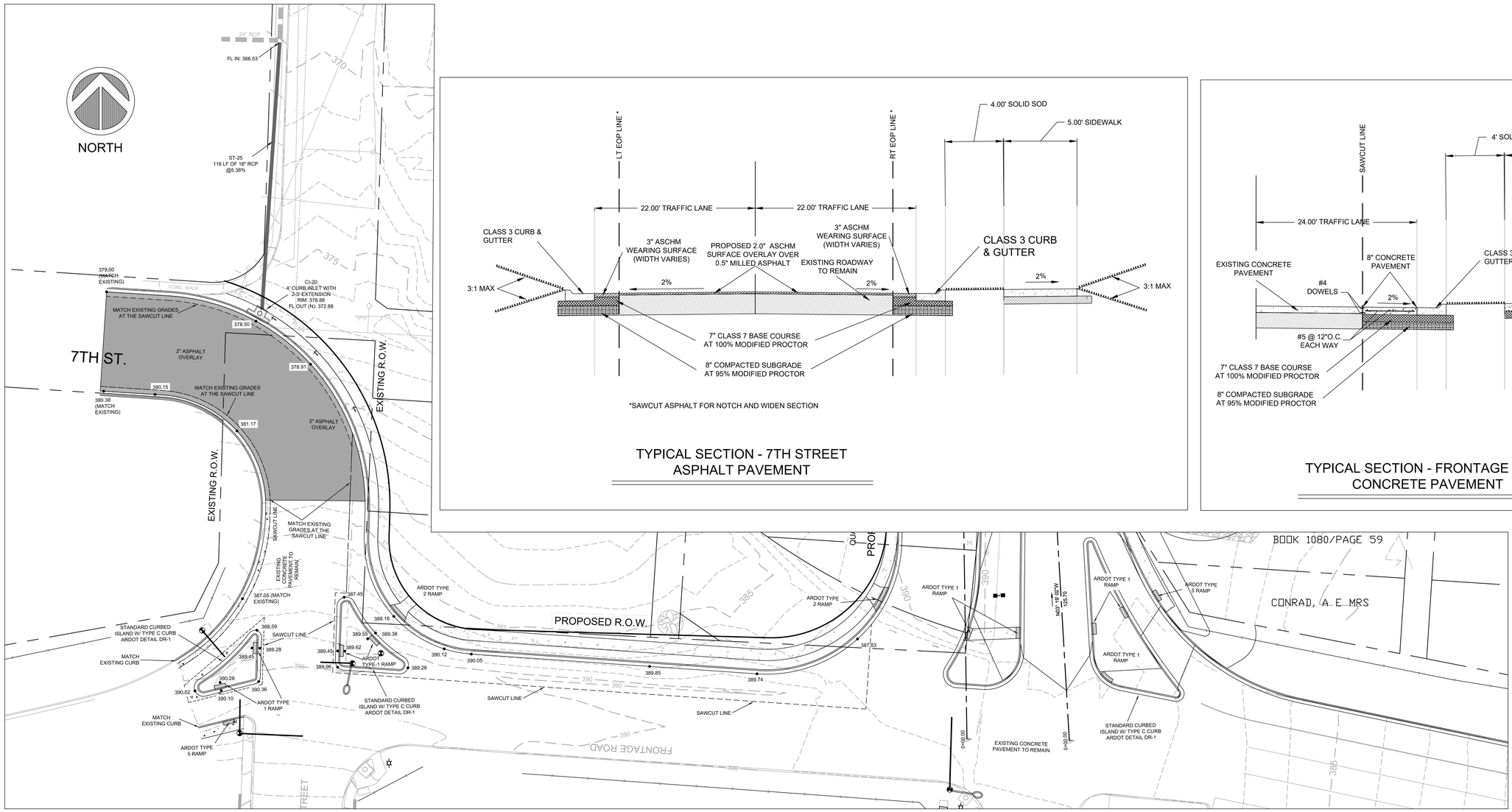
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

GRADING & DRAINAGE - 2

SHEET NUMBER:

C4.02



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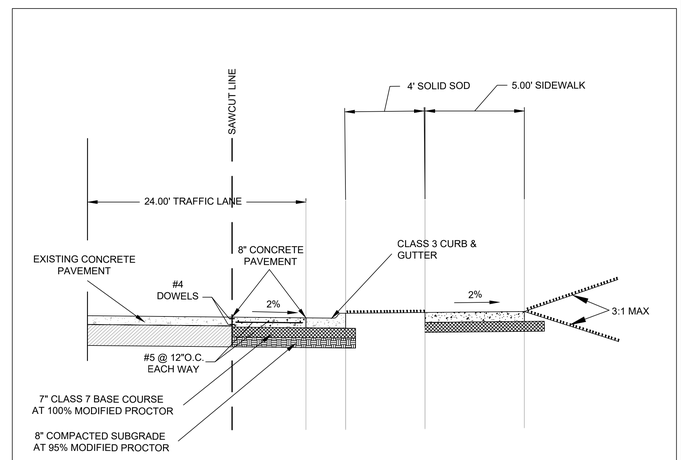
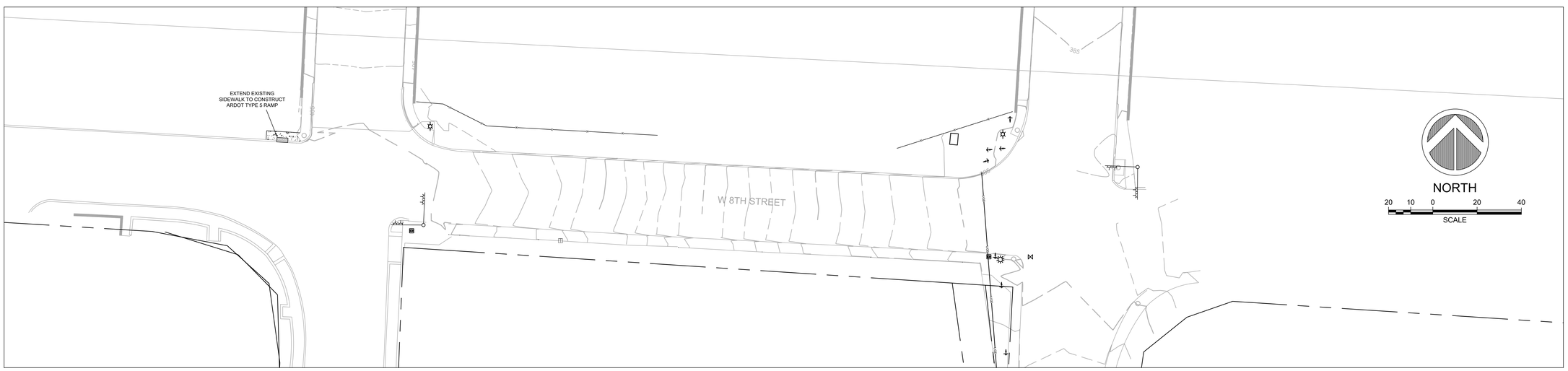
TYPICAL SECTION - 7TH STREET
ASPHALT PAVEMENT



TYPICAL SECTION - FRONTAGE ROAD
CONCRETE PAVEMENT



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CERTIFICATE OF AUTHORIZATION
DEVELOPMENT CONSULTANTS
No. 128
ARKANSAS - ENGINEER - ROYLL
CORPORATE SEAL

STATE OF ARKANSAS
RECISTERED
PROFESSIONAL
ENGINEER
No. 14042
BENJAMIN L. KUDDES
ENGINEER SEAL

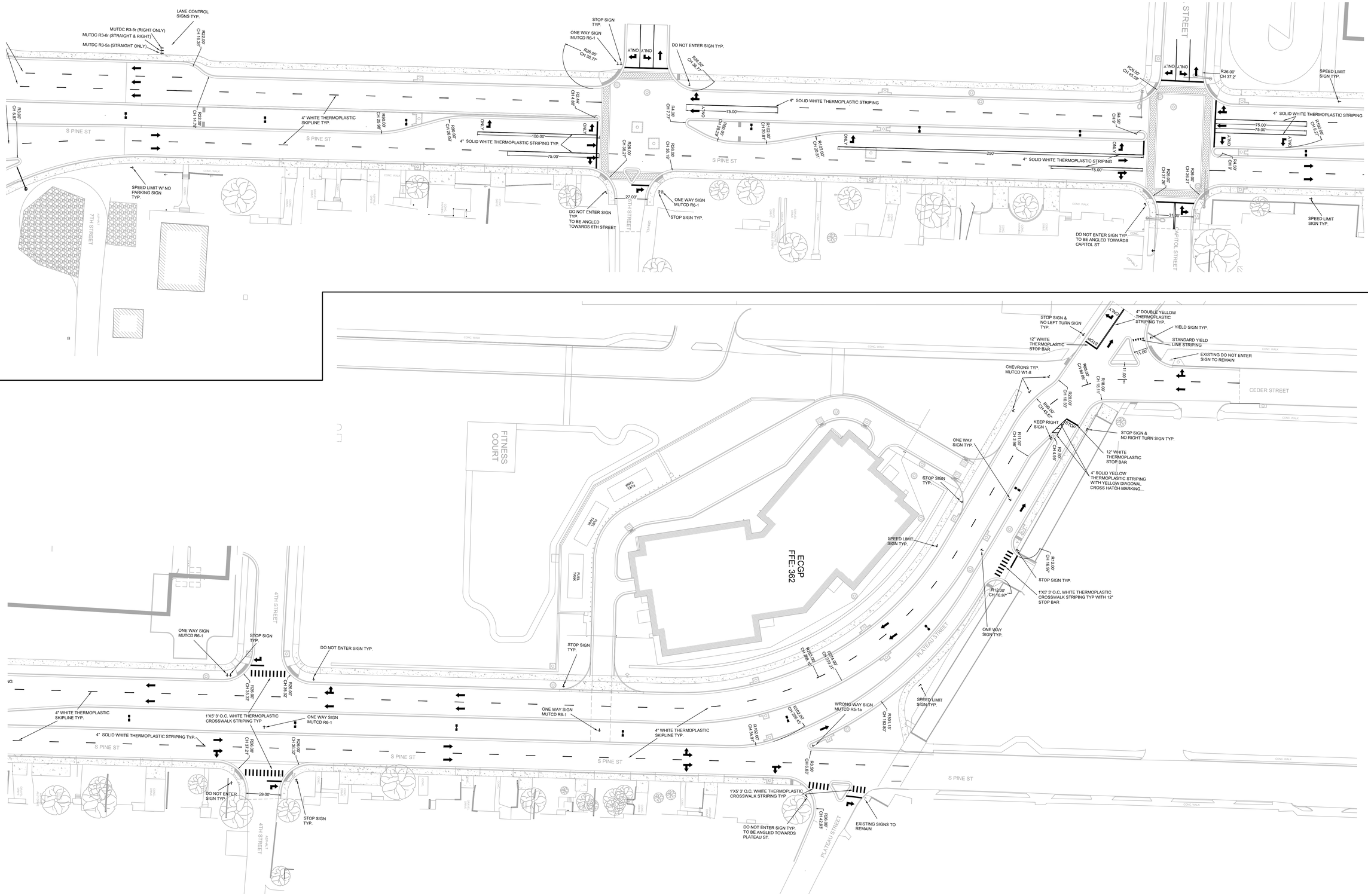
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
GRADING & DRAINAGE - 3

SHEET NUMBER:
C4.03



GENERAL NOTES:
1. ALL PAVEMENT STRIPING TO BE THERMOPLASTIC
2. WHITE SKIP LINES TO BE 4" WIDE WITH 10' LINE SEGMENTS AND 30' GAP UNLESS OTHERWISE NOTED

100% SUBMITTAL

NORTH

30 15 0 30 60

SCALE

Bernhard Energy Solutions

1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORITY — DEVELOPMENT CONSULTANTS INC. — No.128 — ARKANSAS - ENGINEER - NOT VALID

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14942 — BENJAMIN L. KUDDES

ENGINEER SEAL

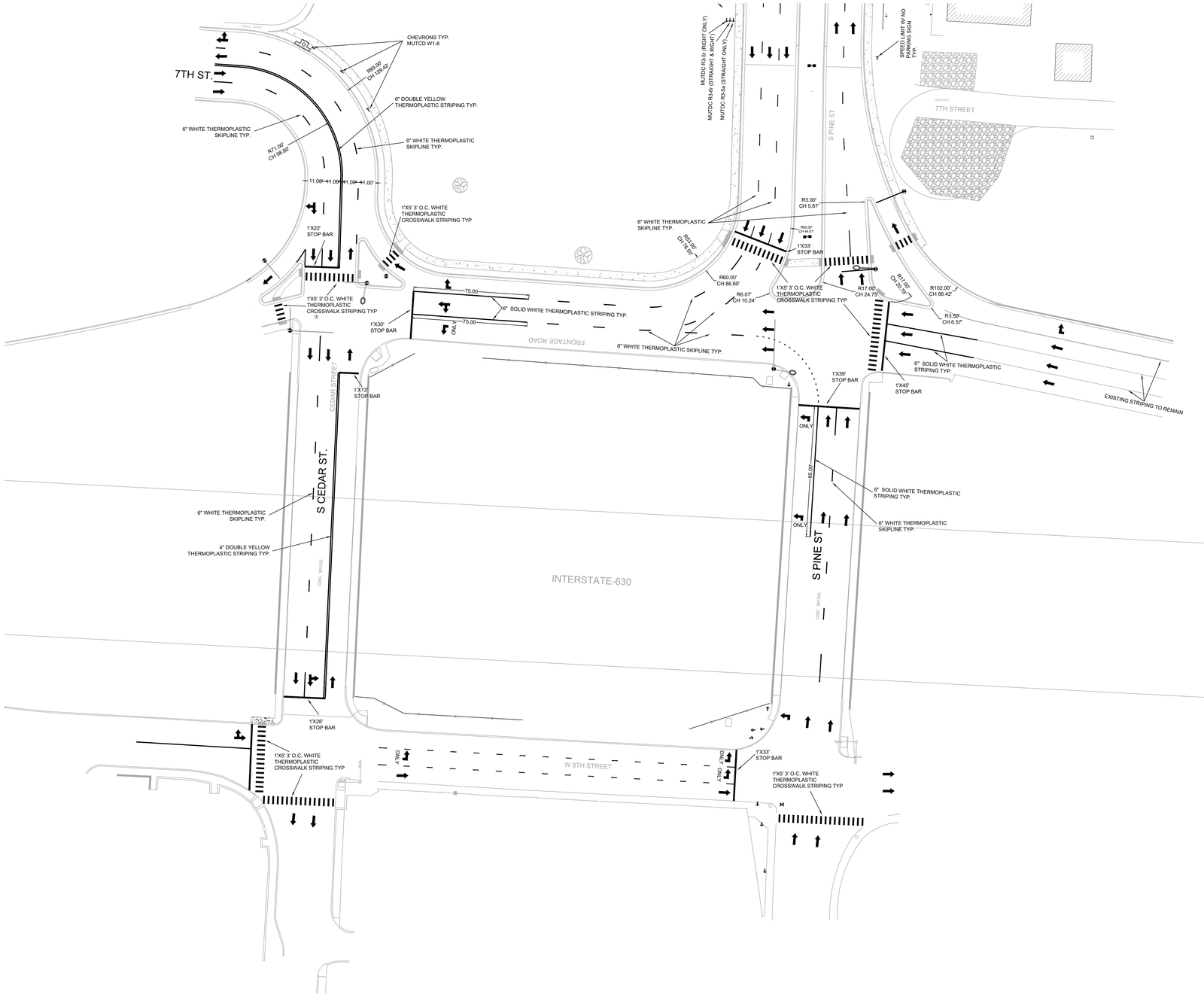
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
STRIPING & SIGNAGE PLAN - 1

SHEET NUMBER:
C5.01



GENERAL NOTES:
1. ALL PAVEMENT STRIPING TO BE THERMOPLASTIC
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100% SUBMITTAL

NORTH

30 15 0 30 60
SCALE

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CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS - ENGINEER - NO. 1

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KIDDER

ENGINEER SEAL

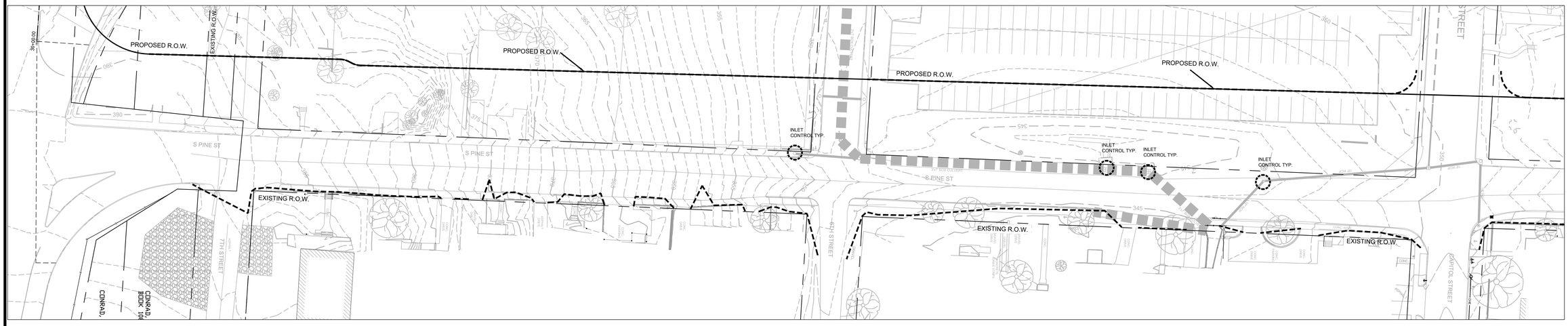
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
STRIPING & SIGNAGE PLAN - 2

SHEET NUMBER:
C5.02



SILT FENCE TYP.

INLET PROTECTION TYP.

SOLID SOD

100% SUBMITTAL

NORTH

30 15 0 30 60

SCALE

Bernhard Energy Solutions

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CORPORATE SEAL

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ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

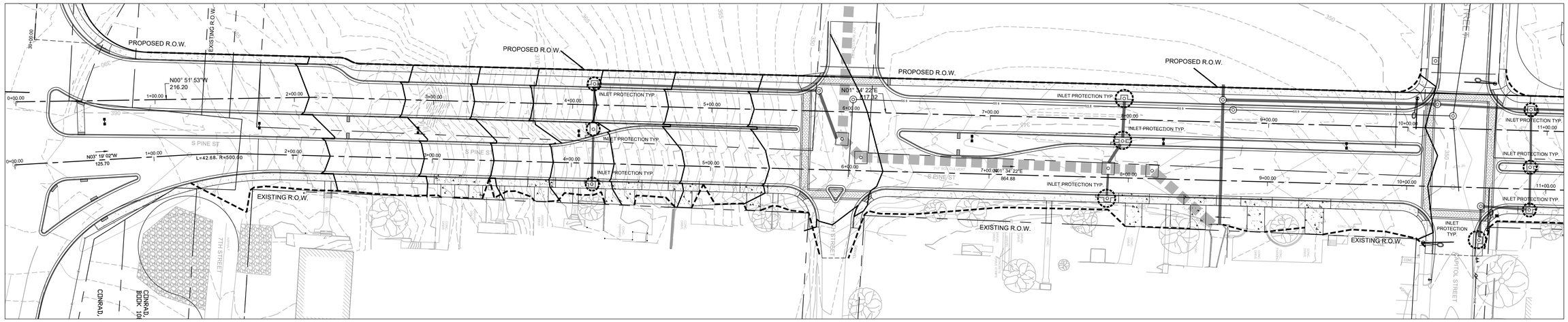
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

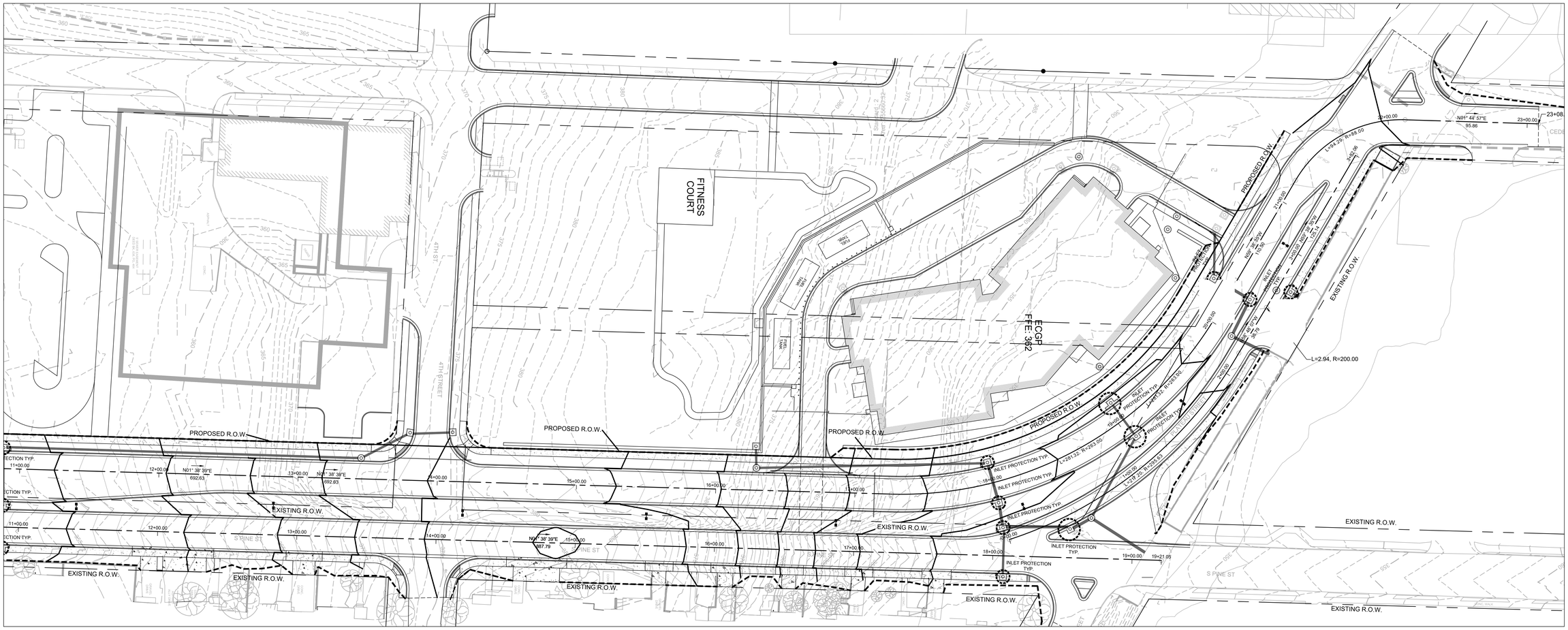
SHEET TITLE:

EROSION CONTROL PHASE - I

SHEET NUMBER:

C6.01





SILT FENCE TYP.

INLET PROTECTION TYP.

SOLID SOD

100% SUBMITTAL

NORTH

30 15 0 30 60

SCALE

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tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS ONLY No. 128 ARKANSAS - ENGINEER - NOVEL

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14942 BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

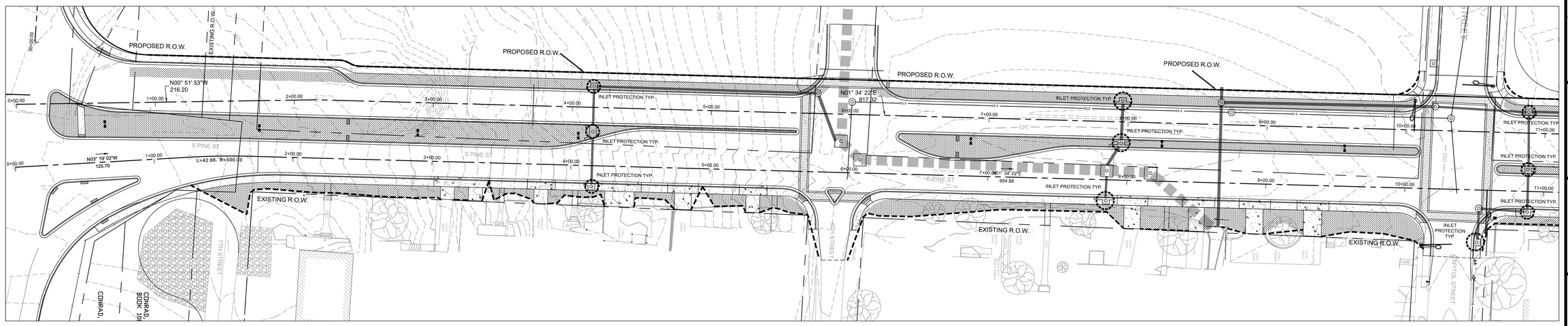
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

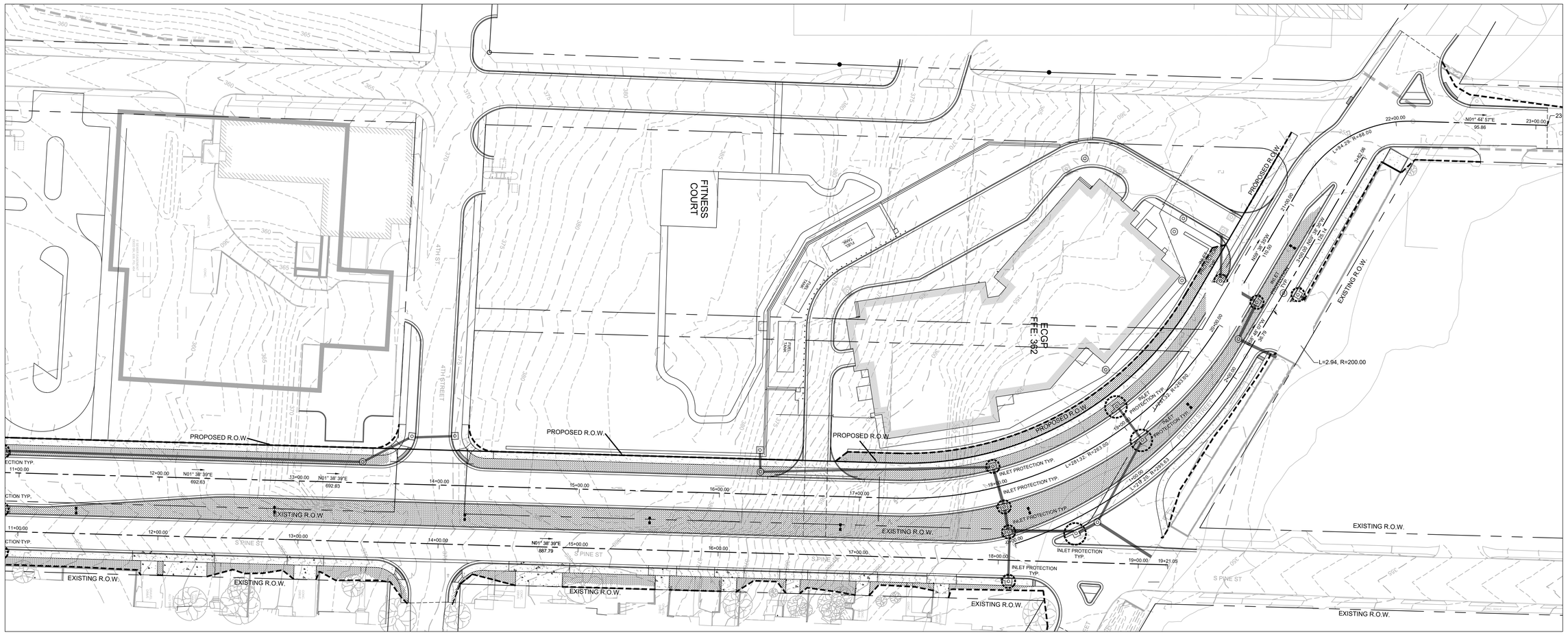
SHEET TITLE:

EROSION CONTROL
PHASE - 2

SHEET NUMBER:

C6.02





SILT FENCE TYP.

INLET PROTECTION TYP.

SOLID SOD

100% SUBMITTAL

NORTH

30 15 0 30 60

SCALE

Bernhard Energy Solutions

1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION
DEVELOPMENT CONSULTANTS
No. 128
ARKANSAS - ENGINEER - NOVEL

CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14942
BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

EROSION CONTROL
PHASE - 3

SHEET NUMBER:

C6.03

GENERAL NOTES

1. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
2. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER UNLESS BOLTED LUGS AT TERMINALS.
3. MINIMUM CONDUIT SIZE SHALL BE 1" UNLESS OTHERWISE NOTED.
4. ALL WIRING DEVICES SHALL BE INSTALLED PLUMB, SQUARE, AND TRUE; AND ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED.
5. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE SPECIFIED.
6. ALL WORK SHALL COMPLY WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE.
7. CONTRACTOR SHALL REFER TO CIVIL DRAWINGS AND OTHER DISCIPLINE DRAWINGS FOR COMPLETE INFORMATION.
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING SCHEDULES IN ALL ELECTRICAL PANELS THAT ARE AFFECTED BY THIS WORK. UPDATED SCHEDULES ARE TO BE TYPEWRITTEN.
9. ALL CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE (MOUNT TO BOTTOM OF STRUCTURE) TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
10. DO NOT USE MULTI-WIRE BRANCH CIRCUITS (CIRCUITS CONNECTED WITH A COMMON NEUTRAL). MORE THAN THREE CIRCUITS IN ANY ONE CONDUIT IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
11. CONDUITS TRANSITIONING FROM BELOW-GRADE TO ABOVE-GRADE WHICH STUBS DIRECTLY THRU THE FLOOR WITHIN THE GENERATOR PLANT SHALL BE SEALED WITH CONDUIT SEALANT EQUAL TO POLYWATER #FST DUE TO SITE DRAINAGE.
12. ALL NEW CIRCUITS RAN THRU THE GENERATOR PLANT WHICH TRANSITION OUT ON-SITE SHALL BE IN EMT CONDUIT AND STRAPPED/SUPPORTED CLOSE TO STRUCTURE WITHIN THE FOOTPRINT OF THE PLANT.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
■	POLE MOUNTED AREA LIGHT FIXTURE

ECSM-14 PH1 LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMP	VOLTAGE (V)	LOAD (W)	DESCRIPTION
T1	KIM LIGHTING	(2) ALT1-28L-60-4K7-2-480-ASQ-PS / (1) KSS25-4180-B-PS	LED - 14.4K LUMENS - 4000K	480V	120	TWO HEAD POLE LIGHT: SLIM FORM, 70 CRI, TYPE II DISTRIBUTION, ARM SQUARE POLE MOUNTED, PLATINUM SILVER FINISH. CONTROLLED VIA GENERATOR PLANT TIME CLOCK AND CONTACTOR. 25FT TALL POLE: SQUARE NON-TAPERED STEEL, 4" X 7 GAUGE, DOUBLE SIDE-ARM MOUNTING HOLES, PLATINUM SILVER FINISH.

BRANCH PANEL: NH1A — NORMAL

LOCATION: NORMAL ELECTRICAL 8 | **VOLTAGE:** 480Y/277V | **AIC RATING:** 35,000
SUPPLY FROM: NSWB1 | **PHASES:** 3 | **BUS RATING:** 100 A
MOUNTING: SURFACE | **WIRES:** 4 | **MCB RATING:** MLO
ENCLOSURE: NEMA 1

NOTES:

EXISTING PANEL, INSTALLED UNER PACKAGE 1.1: ECSM-04

① USE EXISTING SPARE BREAKER FOR CIRCUIT INDICATED ON ELECTRICAL SITE PLAN.

CCT	CIRCUIT DESCRIPTION	TRIP	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP	CIRCUIT DESCRIPTION	CCT	
1	PERIMETER LTS @ GEN PLANT EXT.	20	1	1102	160					1	20	WALLPACK LTS @ TANK YARD	2	
3	LTS @ NORM ELECTRIC 8	20	1			719	296			1	20	LTS @ COMPRESS 9, DEF 10	4	
5	LTS @ WATER 11, STOR 12	20	1					307	470	1	20	LTS @ ESSENTIAL ELEC 13	6	
7	LTS @ CENTER 1	20	1	480	827					1	20	LTS @ CONTROL, RESTRM, DATA	8	
9	LTS @ GEN NORTH 7	20	1			1230	528			1	20	LTS @ EX. PLENUM GEN NORTH 7	10	
11	LTS @ GEN SOUTH 14	20	1					1230	528	1	20	LTS @ EX. PLENUM GEN SOUTH 14	12	
13	LTS @ ROOF MEZZANINE	20	1	1558	0					2	20	-SPARE FOR FUTURE SITE LIGHTING-	14	①
15	-SPARE FOR FUTURE SITE LIGHTING-	20	2			0	0			--	--	--	16	
17	--	--	--					0	0	2	20	-SPARE FOR FITNESS COURT LTG-	18	
19	-SPARE FOR FUTURE SITE LIGHTING-	20	2	0	0					--	--	--	20	
21	--	--	--			0	0			2	20	-SPARE FOR FUTURE SITE LIGHTING-	22	
23	-SPARE FOR FUTURE PRKG LOT CCT-	30	2					0	0	--	--	--	24	
25	--	--	--	0	0					2	30	-SPARE FOR FUTURE PRKG LOT CCT-	26	
27	-SPARE FOR FUTURE PRKG LOT CCT-	30	2			0	0			--	--	--	28	
29	--	--	--					0	0	1	20	-SPARE-	30	
		TOTAL LOAD:		4127 VA		2773 VA		2535 VA						
		TOTAL AMPS:		15 A		10 A		9 A						

LOAD CLASSIFICATIONS	CONNECTED LOADS	DEMAND / DESIGN FACTORS	ESTIMATED DEMANDS	PANEL TOTALS
LIGHTING	9435 VA	100.00%	9435 VA	
				CONNECTED LOAD: 9435 VA
				ESTIMATED DEMAND: 9435 VA
				CONNECTED CURRENT: 11 A
				EST. DEMAND CURRENT: 11 A

BRANCH PANEL: NL1A — NORMAL

LOCATION: NORMAL ELECTRICAL 8 | **VOLTAGE:** 208Y/120V | **AIC RATING:** 10,000
SUPPLY FROM: TNL1 | **PHASES:** 3 | **BUS RATING:** 225 A
MOUNTING: SURFACE | **WIRES:** 4 | **MCB RATING:** 225 A
ENCLOSURE: NEMA 1

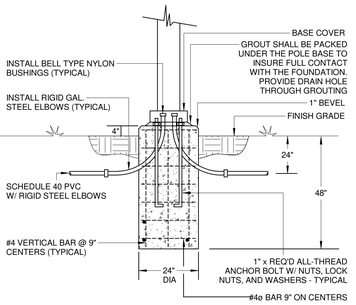
NOTES:
SECTION #1; PROVIDE WITH FEED-THRU LUGS;
[1] 30mA GFEP BREAKER; [2] LOCKABLE BREAKER

EXISTING PANEL, INSTALLED UNER PACKAGE 1.1: ECSM-04

① USE EXISTING SPARE BREAKER FOR CIRCUIT INDICATED ON ELECTRICAL SITE PLAN.

CCT	CIRCUIT DESCRIPTION	TRIP	POLES	A (VA)		B (VA)		C (VA)		POLES	TRIP	CIRCUIT DESCRIPTION	CCT	
1	PANEL NL2A	100	3	4040	180					1	20	PWR'D GATE @ SITE NORTH	2	
3	--	--	--			2920	180			1	20	PWR'D GATE @ SITE SOUTH	4	
5	--	--	--					3960	180	1	20	IRRI CNTRL @ NORMAL ELEC 8	6	
7	RCPT @ NORMAL ELEC 8	20	1	1320	2000					1	30	SWGR HEAT @ NORMAL ELEC 8	8	
9	[1] EYE WASH ST. @ GEN NORTH 7	20	1			600	600			1	20	[1] EYE WASH ST. @ GEN NORTH 7	10	
11	RCPT @ COMP, DEF 9, EXT	20	1					1080	1260	1	20	RCPT @ GEN NORTH 7	12	
13	ROLLUP DOOR INT @ NORTH	20	2	1040	0					1	20	-SPARE-	14	
15	--	--	--			1040	0			1	20	-SPARE-	16	
17	RCPT @ GEN NORTH 7 RADIATORS	20	1					540	720	1	20	GFI RCPT @ TANK YARD	18	
19	RCPT @ MEZZ NORTH	20	1	1440	1080					1	20	GFI RCPT @ ROOF NORTH	20	
21	[2] INTERNALLY-LIT SIGN @ GEN PLANT	20	1			180	180			1	20	(FUTURE) RTU-1 DDC/FEP @ ROOF	22	
23	PIT SUMP PUMP @ NORM ELEC 8	20	2					416	180	1	20	(FUTURE) RTU-2 DDC/FEP @ ROOF	24	
25	--	--	--	416	0					1	20	-SPARE-	26	
27	-SPARE-	20	1			0	0			1	20	-SPARE-	28	
29	-SPARE-	20	1					0	0	1	20	-SPARE-	30	
31	-SPARE-	20	1	0	0					1	20	-SPARE-	32	
33	-SPARE-	20	1			0	0			1	20	-SPARE-	34	
35	-SPARE-	20	1					0	0	1	20	-SPARE FOR COURT SECURITY-	36	①
37	-SPARE-	20	1	0	0					1	20	-SPARE-	38	
39	-SPARE-	20	1			0	0			2	20	-SPARE-	40	
41	-SPARE-	20	1					0	0	--	--	--	42	
43	NL1B - FEED THRU	0	3	10242	0					--	--	-NON EXISTENT-	44	
45	--	--	--			11660	0			--	--	-NON EXISTENT-	46	
47	--	--	--					10212	0	--	--	-NON EXISTENT-	48	
		TOTAL LOAD:		21758 VA		17360 VA		18548 VA						
		TOTAL AMPS:		183 A		145 A		156 A						

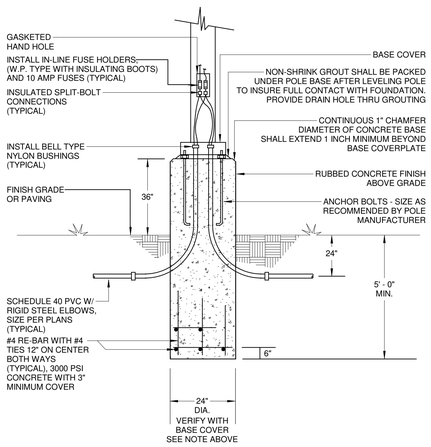
LOAD CLASSIFICATIONS	CONNECTED LOADS	DEMAND / DESIGN FACTORS	ESTIMATED DEMANDS	PANEL TOTALS
LIGHTING	20 VA	100.00%	20 VA	
MOTOR EQUIPMENT	6274 VA	100.00%	6274 VA	**CONNECTED LOAD:** 57666 VA
POWER, OTHER	29052 VA	100.00%	29052 VA	**ESTIMATED DEMAND:** 51506 VA
RECEPTACLES	22320 VA	72.40%	16160 VA	**CONNECTED CURRENT:** 160 A
				EST. DEMAND CURRENT: 143 A



LIGHTING POLE FOUNDATION NOTES:

1. THE FIRST AND LAST LIGHTING POLES ON EACH LIGHTING POLE CIRCUIT SHALL HAVE (1) SPARE CONDUIT STUBBED-OUT 4'-0" BEYOND THE POLE FOR FUTURE.
2. INSTALL REGULAR FOUNDATION FOR RE-INSTALLATION OF EXISTING LIGHT FIXTURES WHERE SPECIFICALLY INDICATED.

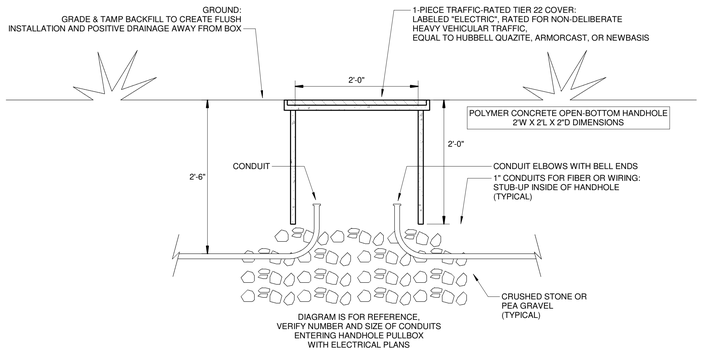
4 LIGHTING POLE FOUNDATION DETAIL
NOT TO SCALE



LIGHTING POLE ELEVATED FOUNDATION NOTES:

1. THE FIRST AND LAST LIGHTING POLES ON EACH LIGHTING POLE CIRCUIT SHALL HAVE (1) SPARE CONDUIT STUBBED-OUT 4'-0" BEYOND THE POLE FOR FUTURE.
2. INSTALL ELEVATED FOUNDATION FOR ALL NEW POLE LIGHT FIXTURES UNLESS INDICATED OTHERWISE.

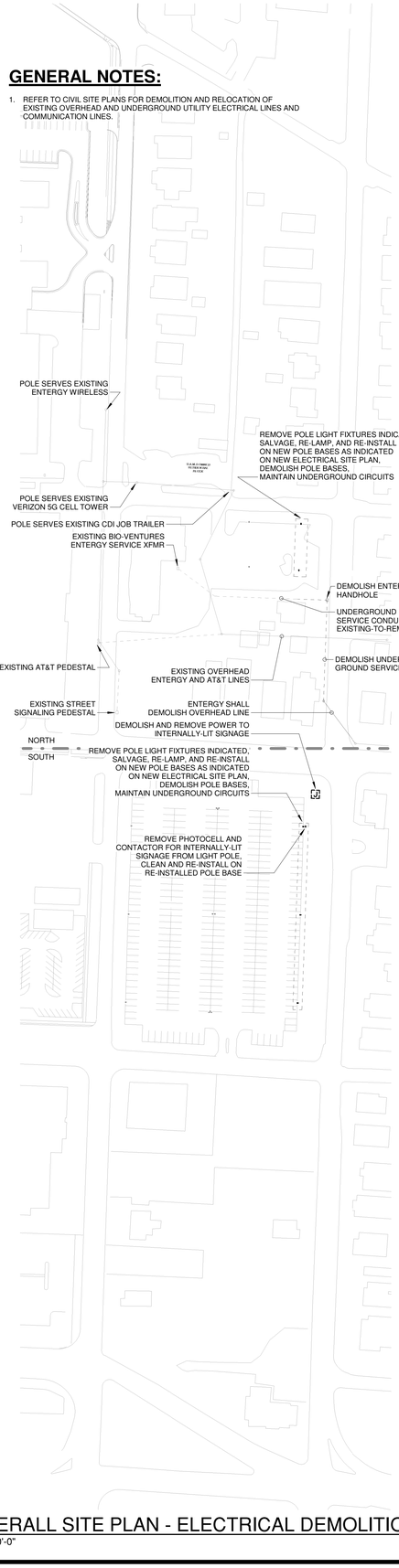
3 (ECSM-14 PH1) LIGHTING POLE ELEVATED FOUNDATION DETAIL
NOT TO SCALE



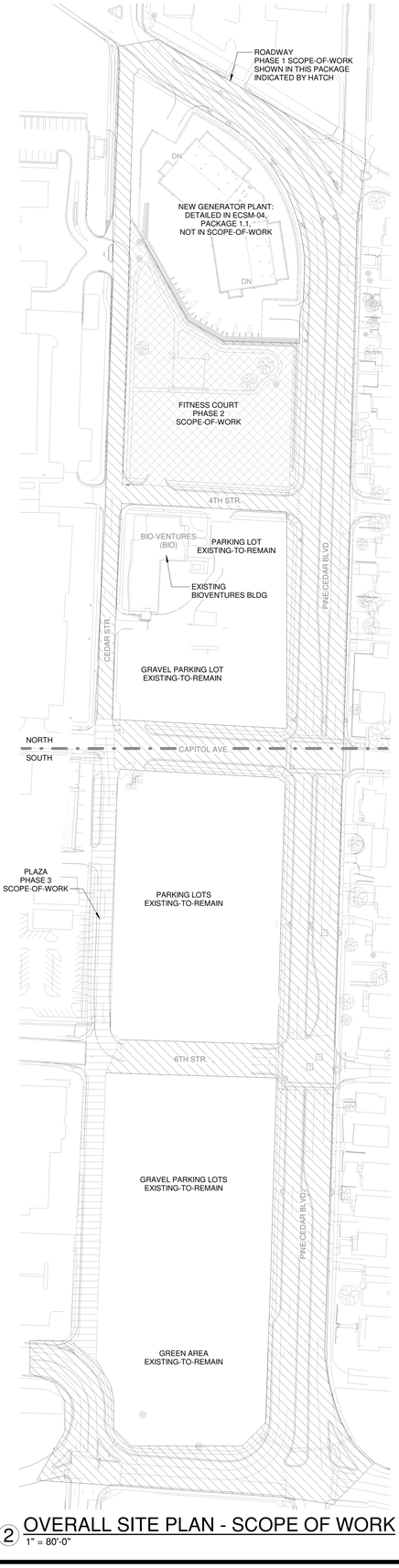
5 HANDHOLE PULLBOX OPEN BOTTOM ELEVATION - 2FT X 2FT X 2FT
1" = 1'-0"

GENERAL NOTES:

1. REFER TO CIVIL SITE PLANS FOR DEMOLITION AND RELOCATION OF EXISTING OVERHEAD AND UNDERGROUND UTILITY ELECTRICAL LINES AND COMMUNICATION LINES.



1 OVERALL SITE PLAN - ELECTRICAL DEMOLITION
1" = 80'-0"



2 OVERALL SITE PLAN - SCOPE OF WORK
1" = 80'-0"

Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION — Bernhard TME, LLC No. 2790 — ARKANSAS

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — Daniel Clayton — No. 18612 — PRINTED PAUL D. FERRELL

9/21/20
ENGINEER SEAL

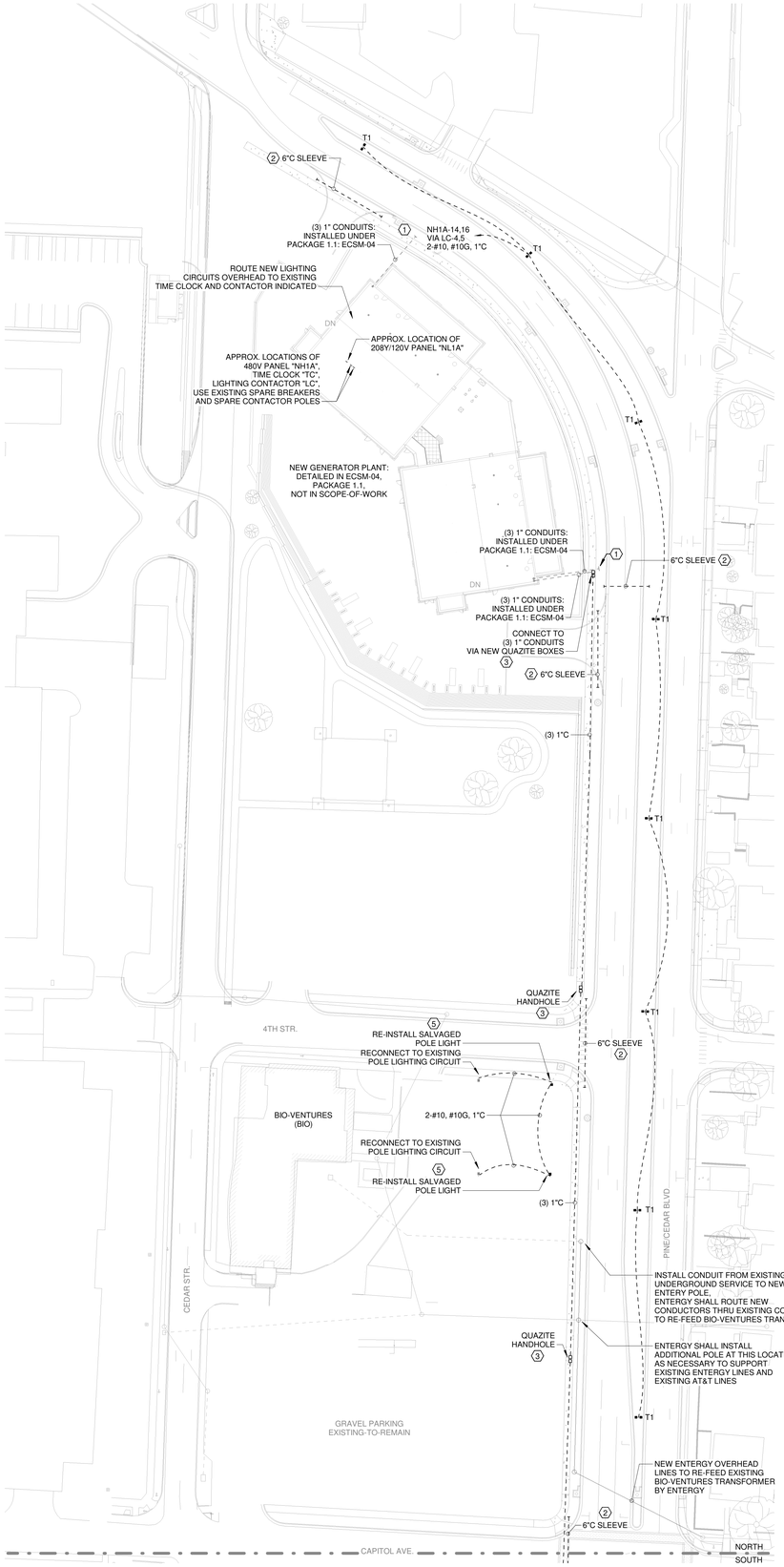
ENERGY PERFORMANCE CONTRACT
ECSM-14 - PHASE 1
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

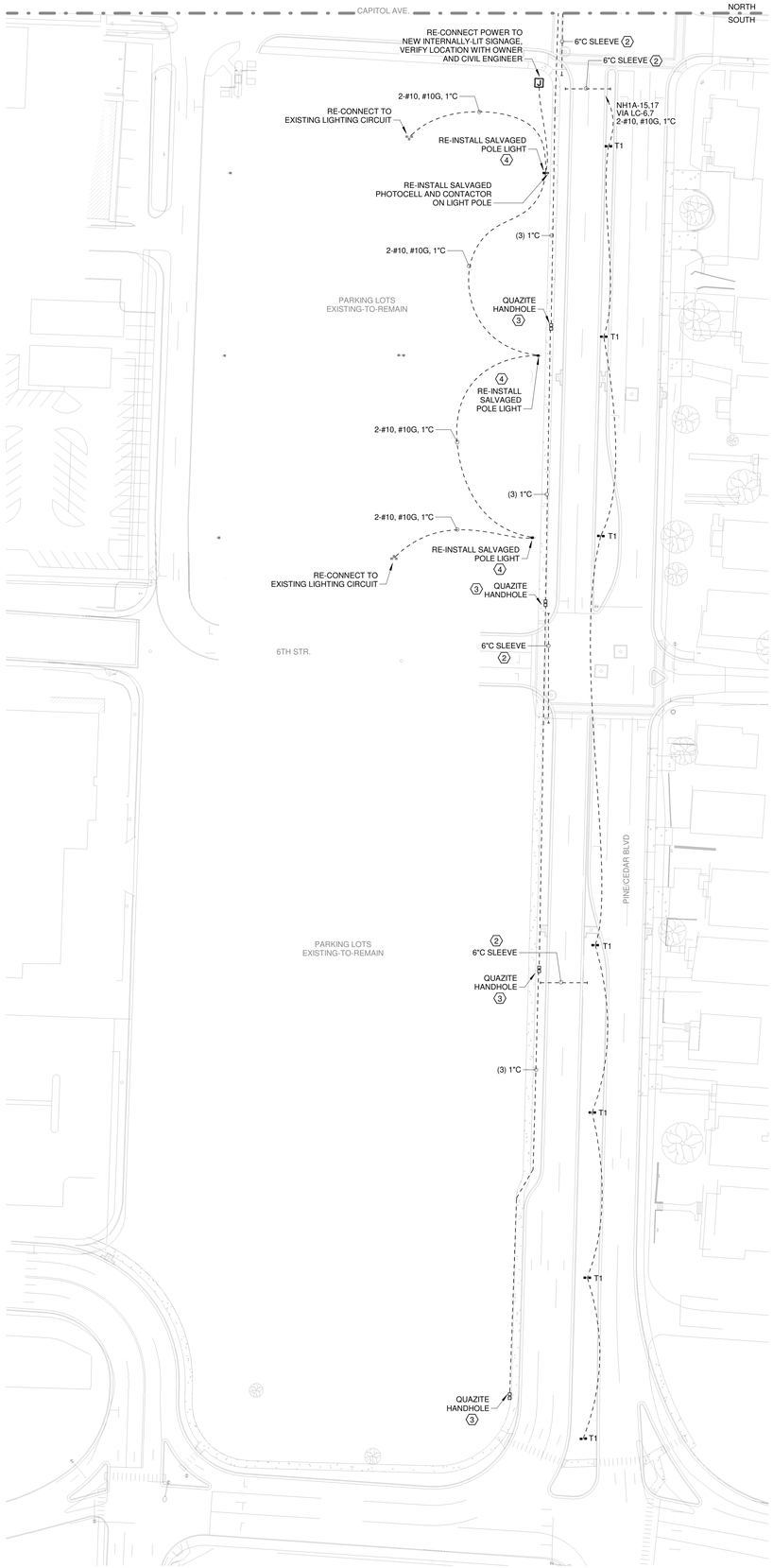
ISSUE DATE:	9/21/2020
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
SCHEDULES, DETAILS, EXISTING SITE PLANS - ELECTRICAL

SHEET NUMBER:
E001



1 OVERALL SITE PLAN - LIGHTING/POWER/SYSTEMS - NORTH
1" = 40'-0"



2 OVERALL SITE PLAN - LIGHTING/POWER/SYSTEMS - SOUTH
1" = 40'-0"

KEYED NOTES:

1. CONDUITS STUBBED OUT OF GENERATOR PLANT UNDER PACKAGE 1.1: ECSM-04. ROUTE NEW SITE LIGHTING CIRCUITS AND POWER CIRCUITS TO GENERATOR PLANT VIA THESE CONDUITS. COORDINATE EXACT LOCATIONS WITH GENERATOR PLANT CONTRACTOR. ROUTE NEW CONDUITS AND CONDUCTORS OVERHEAD THRU GENERATOR PLANT TO PANEL, TIME CLOCK, AND CONTACTOR INDICATED.
2. 6" CONDUIT SLEEVE FOR UNDERGROUND IRRIGATION LINES. INSTALL BELL ENDS.
3. TWO (2) QUAZITE HANDHOLE PULLBOXES: 24" X 24" BOX, TIER 22, POLYMER-CONCRETE TYPE, ENGRAVED "ELECTRIC". (1) 1"C STUBS INTO ONE PULLBOX FOR POWER. (2) 1"C STUBS INTO OTHER PULLBOX FOR LOW-VOLTAGE SYSTEMS.
4. RE-INSTALL SALVAGED POLE LIGHT ON NEW ELEVATED FOUNDATION BASE. MEASURE EXISTING BASE PLATE AND INSTALL NEW BOLT HOLES TO MATCH. REFER TO DETAIL #3 ON SHEET E001.
5. RE-INSTALL SALVAGED POLE LIGHT ON POLE BASE. MEASURE EXISTING BASE PLATE AND INSTALL NEW BOLT HOLES TO MATCH. REFER TO DETAIL #4 ON SHEET E001.

Bernhard Energy Solutions

1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION
Bernhard TME, LLC
No. 2790
ARKANSAS

CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18612
PRENTON PAUL FERRELL

9/21/20
ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - PHASE 1
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
ISSUE DATE:		9/21/2020
PROJECT NUMBER:		77-19-0028

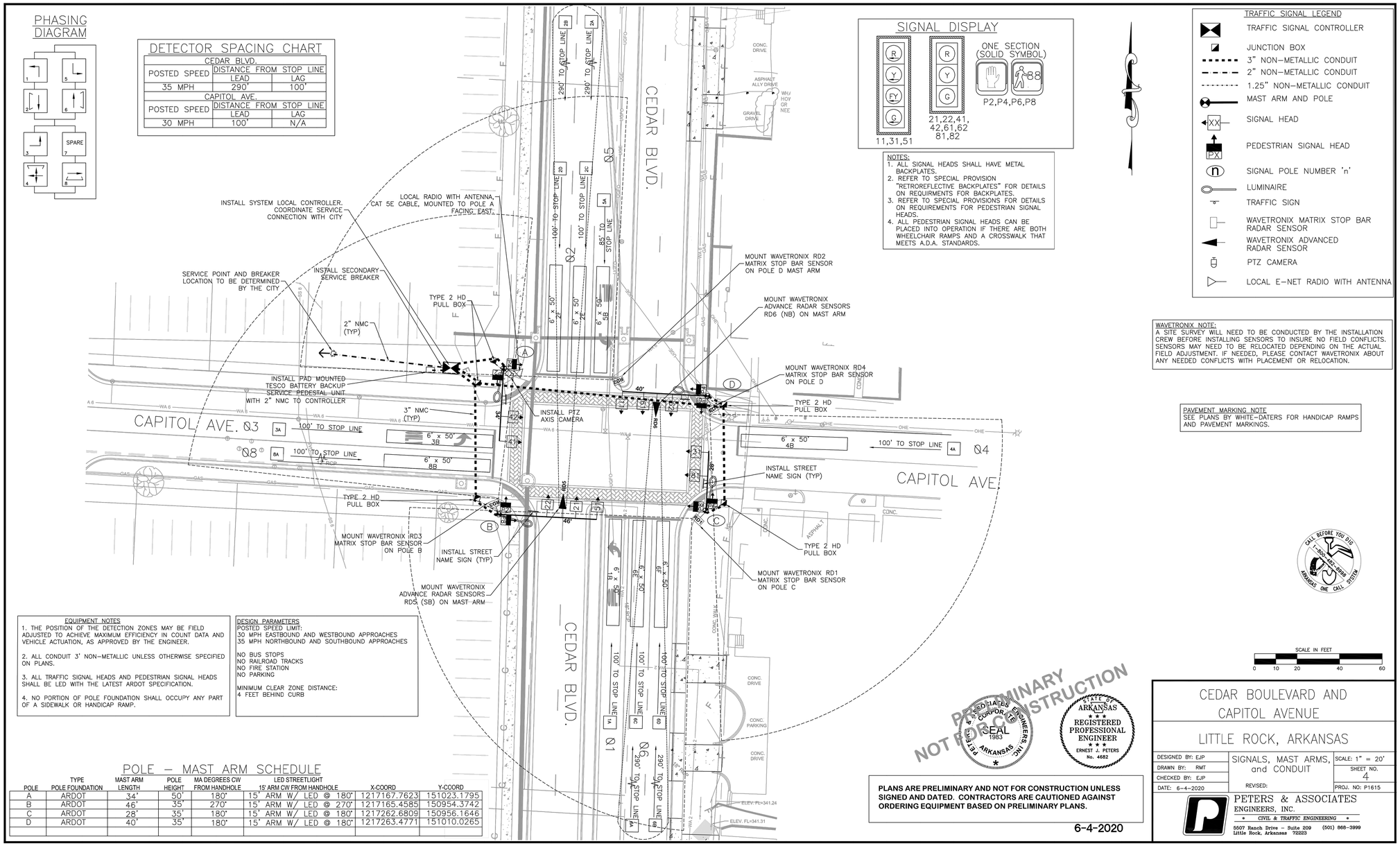
SHEET TITLE:
SITE PLAN - ELECTRICAL

SHEET NUMBER:
E101

PHASING DIAGRAM

DETECTOR SPACING CHART

CEDAR BLVD.		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD	LAG
35 MPH	290'	100'
CAPITOL AVE.		
POSTED SPEED	DISTANCE FROM STOP LINE	
	LEAD	LAG
30 MPH	100'	N/A



SIGNAL DISPLAY

NOTES:
1. ALL SIGNAL HEADS SHALL HAVE METAL BACKPLATES.
2. REFER TO SPECIAL PROVISION "RETROREFLECTIVE BACKPLATES" FOR DETAILS ON REQUIRMENTS FOR BACKPLATES.
3. REFER TO SPECIAL PROVISIONS FOR DETAILS ON REQUIREMENTS FOR PEDESTRIAN SIGNAL HEADS.
4. ALL PEDESTRIAN SIGNAL HEADS CAN BE PLACED INTO OPERATION IF THERE ARE BOTH WHEELCHAIR RAMPS AND A CROSSWALK THAT MEETS A.D.A. STANDARDS.

TRAFFIC SIGNAL LEGEND

- TRAFFIC SIGNAL CONTROLLER
- JUNCTION BOX
- 3" NON–METALLIC CONDUIT
- 2" NON–METALLIC CONDUIT
- 1.25" NON–METALLIC CONDUIT
- MAST ARM AND POLE
- SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- SIGNAL POLE NUMBER 'n'
- LUMINAIRE
- TRAFFIC SIGN
- WAVETRONIX MATRIX STOP BAR RADAR SENSOR
- WAVETRONIX ADVANCED RADAR SENSOR
- PTZ CAMERA
- LOCAL E–NET RADIO WITH ANTENNA

WAVETRONIX NOTE:
A SITE SURVEY WILL NEED TO BE CONDUCTED BY THE INSTALLATION CREW BEFORE INSTALLING SENSORS TO INSURE NO FIELD CONFLICTS. SENSORS MAY NEED TO BE RELOCATED DEPENDING ON THE ACTUAL FIELD ADJUSTMENT. IF NEEDED, PLEASE CONTACT WAVETRONIX ABOUT ANY NEEDED CONFLICTS WITH PLACEMENT OR RELOCATION.

PAVEMENT MARKING NOTE
SEE PLANS BY WHITE–DATERS FOR HANDICAP RAMPS AND PAVEMENT MARKINGS.

EQUIPMENT NOTES
1. THE POSITION OF THE DETECTION ZONES MAY BE FIELD ADJUSTED TO ACHIEVE MAXIMUM EFFICIENCY IN COUNT DATA AND VEHICLE ACTUATION, AS APPROVED BY THE ENGINEER.

2. ALL CONDUIT 3' NON–METALLIC UNLESS OTHERWISE SPECIFIED ON PLANS.

3. ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS SHALL BE LED WITH THE LATEST ARDOT SPECIFICATION.

4. NO PORTION OF POLE FOUNDATION SHALL OCCUPY ANY PART OF A SIDEWALK OR HANDICAP RAMP.

DESIGN PARAMETERS
POSTED SPEED LIMIT:
30 MPH EASTBOUND AND WESTBOUND APPROACHES
35 MPH NORTHBOUND AND SOUTHBOUND APPROACHES

NO BUS STOPS
NO RAILROAD TRACKS
NO FIRE STATION
NO PARKING

MINIMUM CLEAR ZONE DISTANCE:
4 FEET BEHIND CURB

POLE – MAST ARM SCHEDULE

POLE	TYPE POLE FOUNDATION	MAST ARM LENGTH	POLE HEIGHT	MA DEGREES CW FROM HANDHOLE	LED STREETLIGHT 15' ARM CW FROM HANDHOLE	X-COORD	Y-COORD
A	ARDOT	34'	50'	180°	15' ARM W/ LED @ 180°	1217167.7623	151023.1795
B	ARDOT	46'	35'	270°	15' ARM W/ LED @ 270°	1217165.4585	150954.3742
C	ARDOT	28'	35'	180°	15' ARM W/ LED @ 180°	1217262.6809	150956.1646
D	ARDOT	40'	35'	180°	15' ARM W/ LED @ 180°	1217263.4771	151010.0265

PRELIMINARY NOT FOR CONSTRUCTION

PETERS & ASSOCIATES ENGINEERS, INC. SEAL 1983 ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER ERNEST J. PETERS No. 4682

PLANS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS SIGNED AND DATED. CONTRACTORS ARE CAUTIONED AGAINST ORDERING EQUIPMENT BASED ON PRELIMINARY PLANS.

6-4-2020

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

SCALE IN FEET
0 10 20 40 60

NORTH
30 15 0 30 60
SCALE

100% SUBMITTAL

CEDAR BOULEVARD AND CAPITOL AVENUE

LITTLE ROCK, ARKANSAS

DESIGNED BY: EJP	SIGNALS, MAST ARMS, and CONDUIT
DRAWN BY: RMT	SCALE: 1" = 20'
CHECKED BY: EJP	SHEET NO. 4
DATE: 6-4-2020	REVISED:
	PROJ. NO: P1615

PETERS & ASSOCIATES ENGINEERS, INC.
CIVIL & TRAFFIC ENGINEERING
5507 Ranch Drive – Suite 209 (501) 868-3999
Little Rock, Arkansas 72223

Bernhard Energy Solutions
1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS ENGINEER

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KUDERS

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

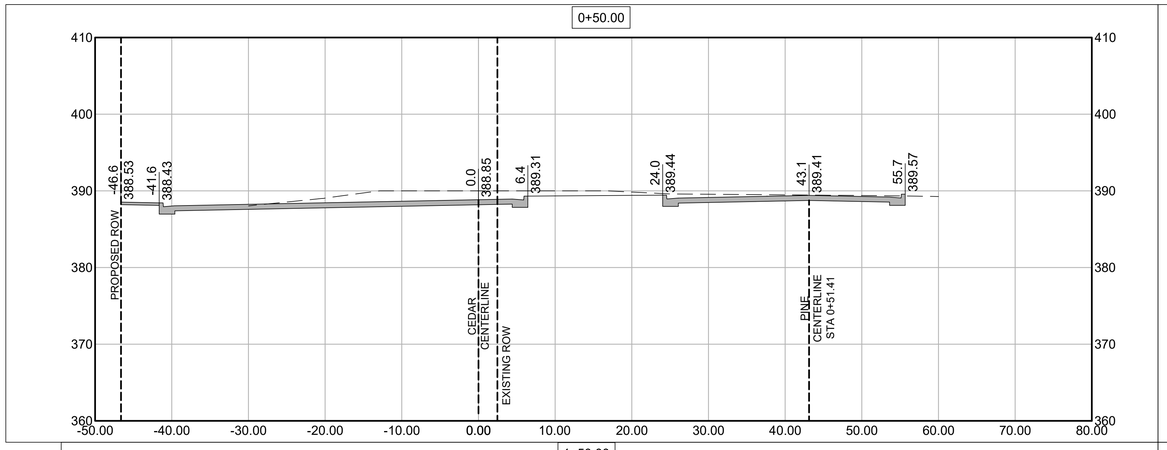
MARK	DATE	DESCRIPTION

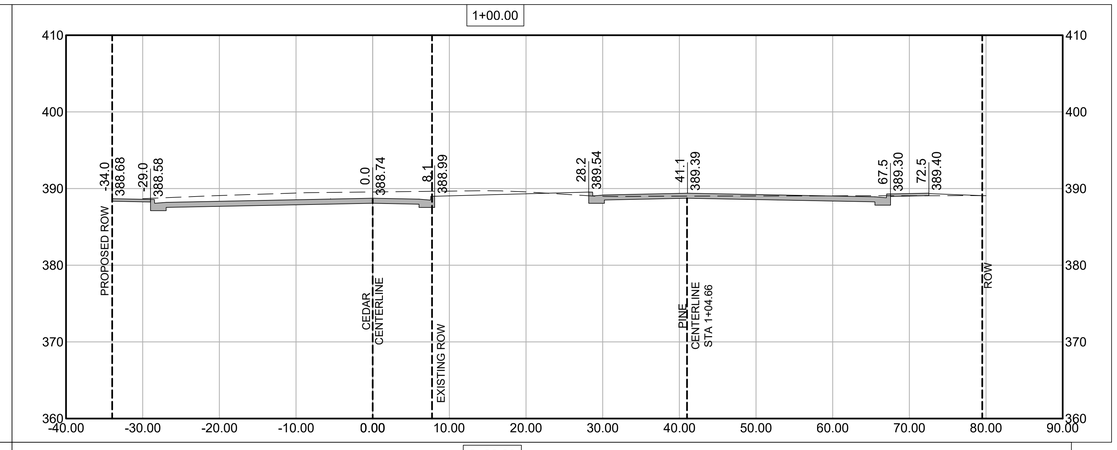
ISSUE DATE: 09/21/20

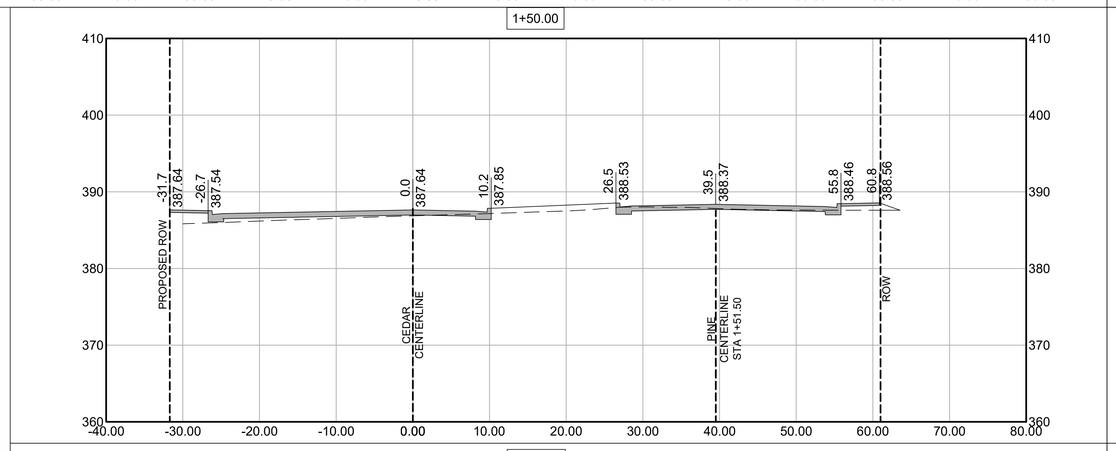
PROJECT NUMBER: 77-19-0028

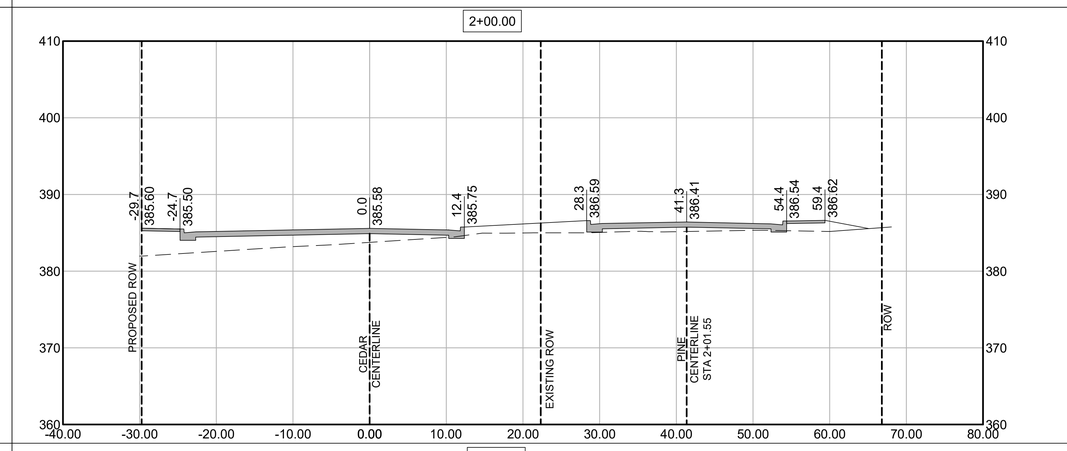
SHEET TITLE:
TRAFFIC SIGNAL PLAN - 1

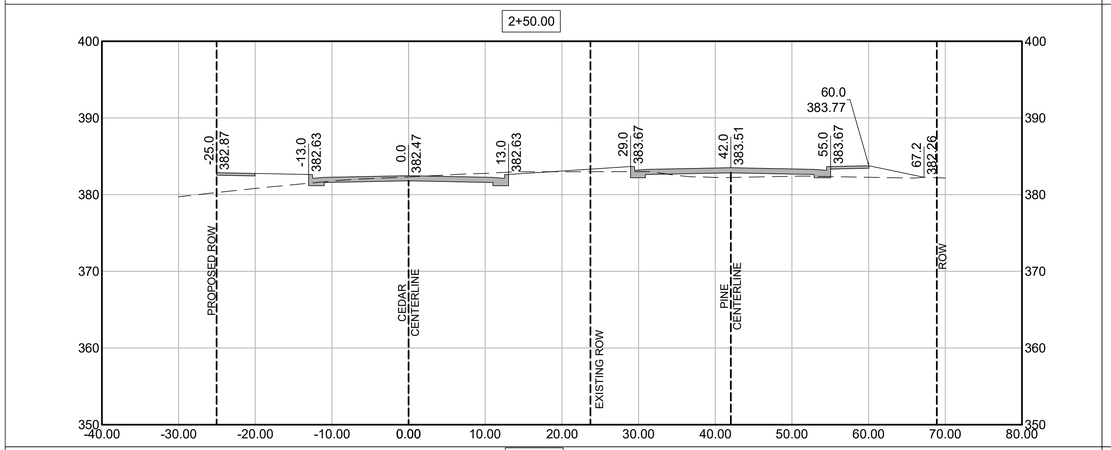
SHEET NUMBER:
C7.01

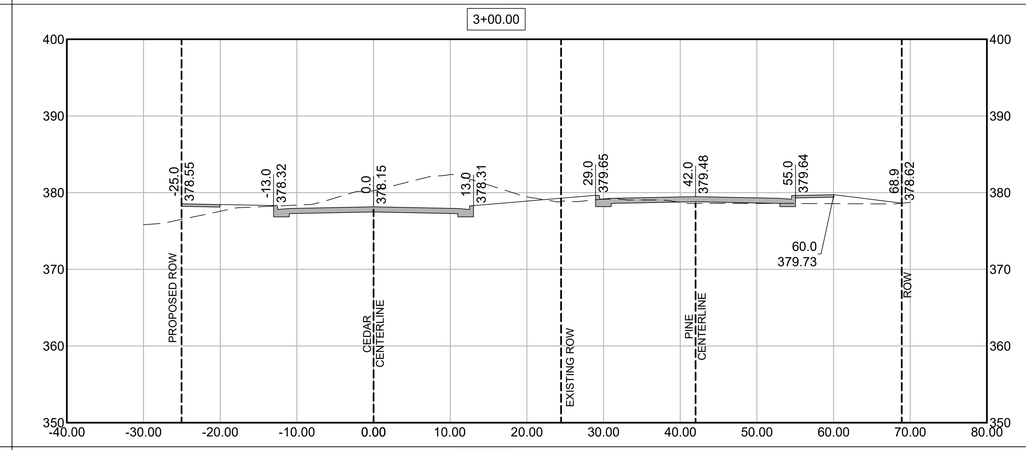


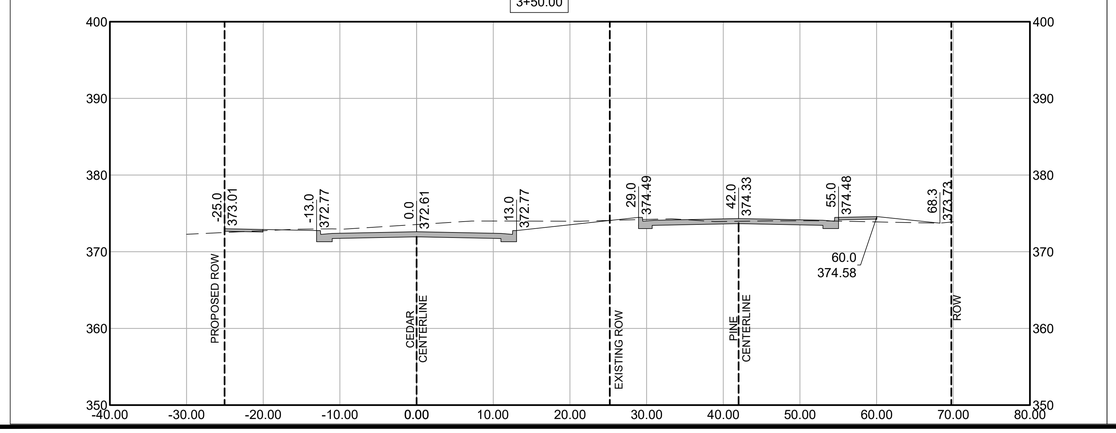


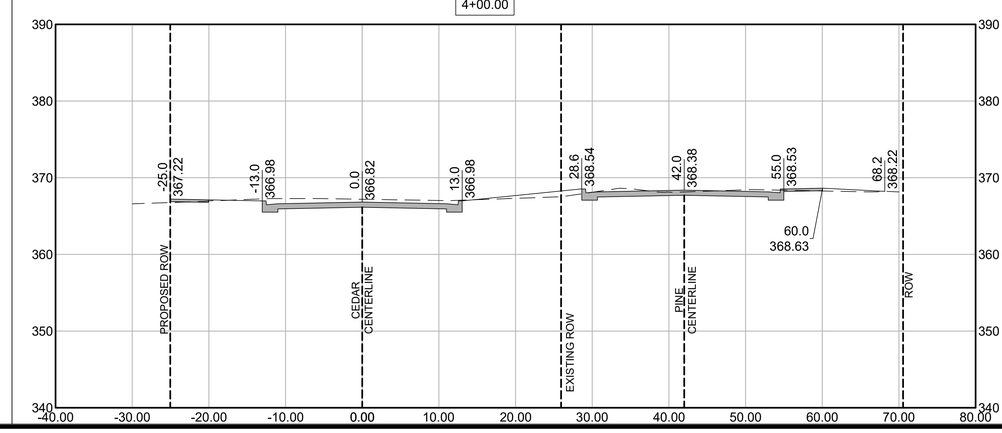












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tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION
DEVELOPMENT CONSULTANTS INC.
No. 128
ARKANSAS - ENGINEER - ROYLL
CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14962
BENJAMIN L. KLODES
ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

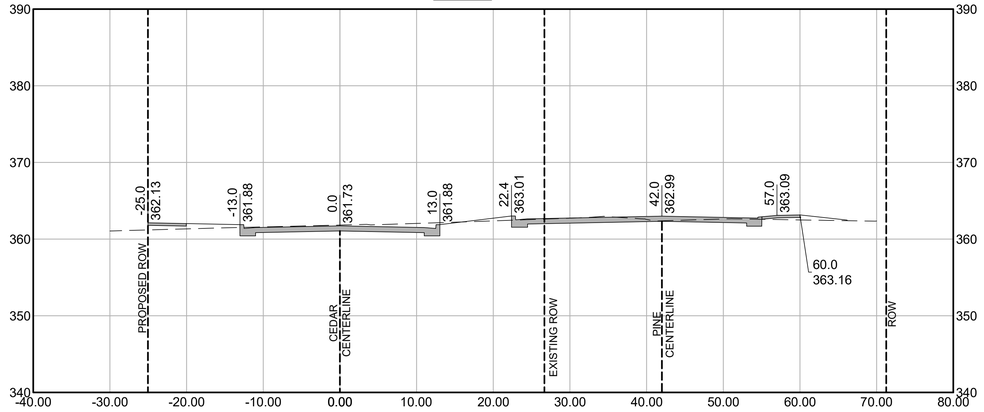
MARK	DATE	DESCRIPTION

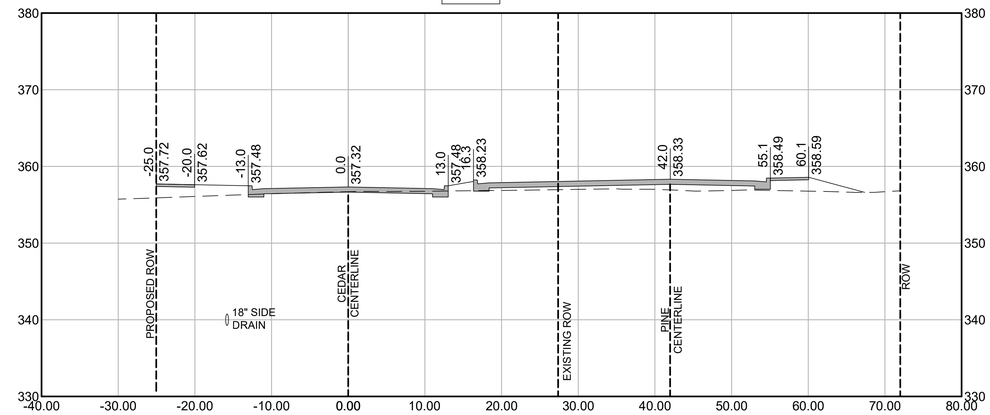
ISSUE DATE: 09/21/20

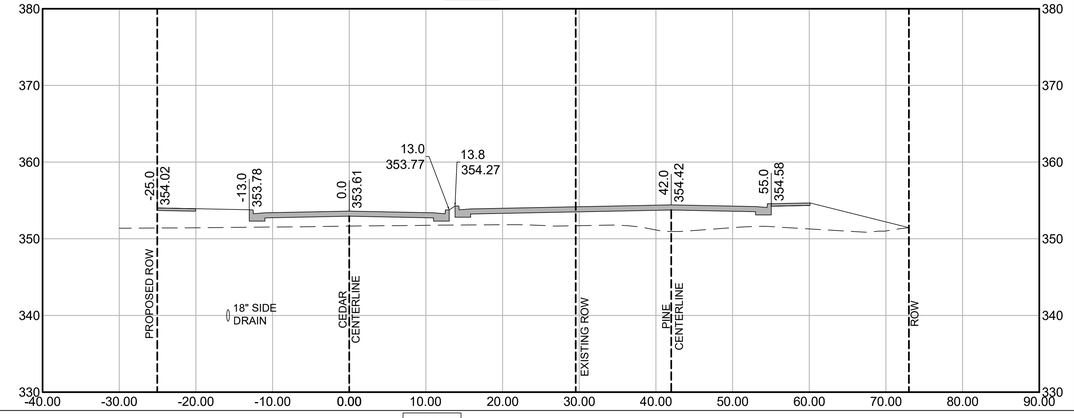
PROJECT NUMBER: 77-19-0028

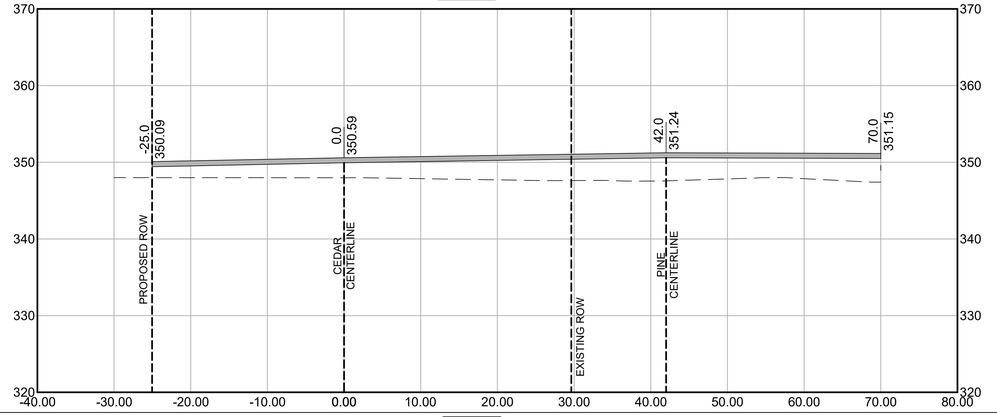
SHEET TITLE:
CROSS SECTIONS - 1

SHEET NUMBER:
C8.01









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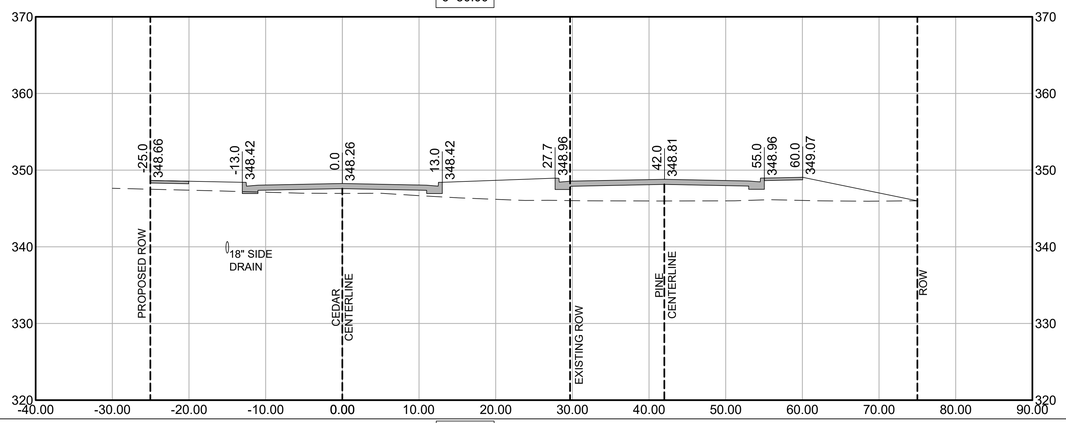

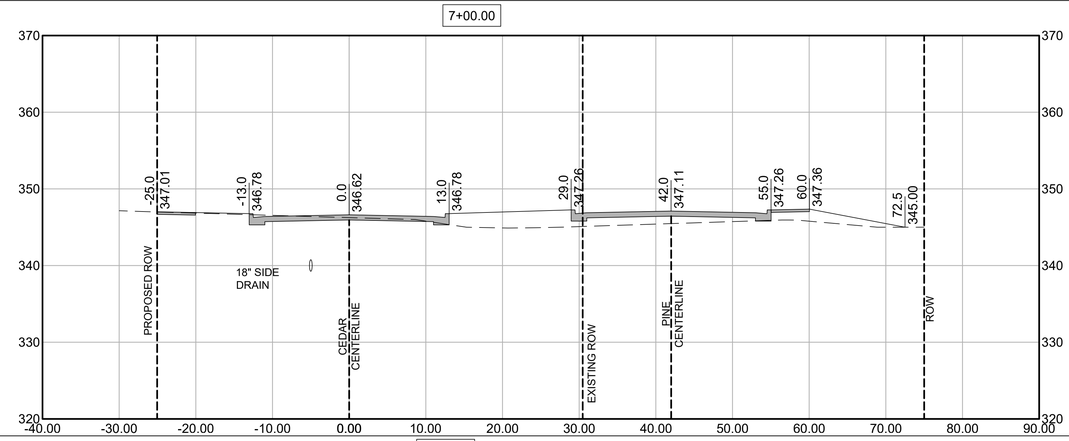

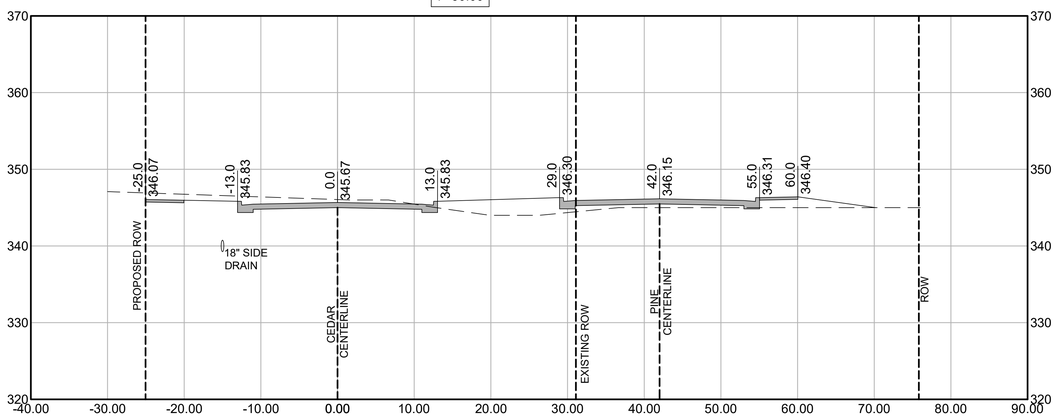

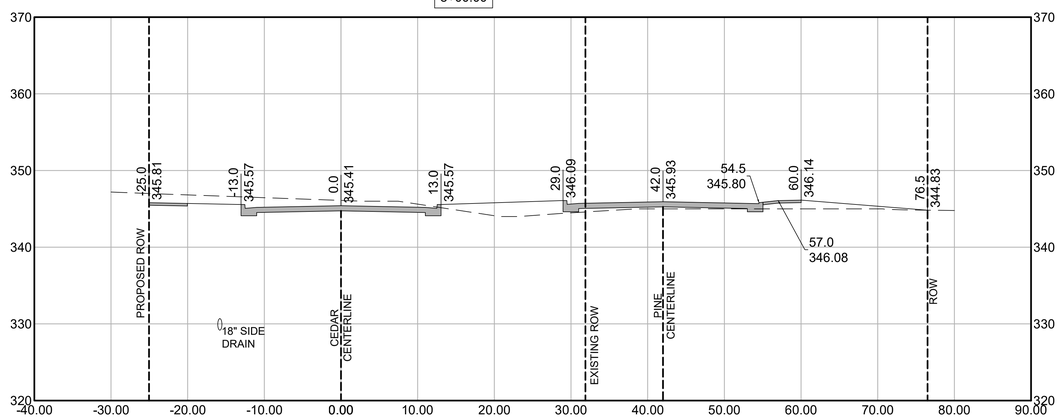

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SUITE 2600
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CERTIFICATE OF AUTHORIZATION
DEVELOPMENT CONSULTANTS, INC.
No.128
ARKANSAS - ENGINEER - NO.
CORPORATE SEAL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14942
BENJAMIN L. KUDDES
ENGINEER SEAL

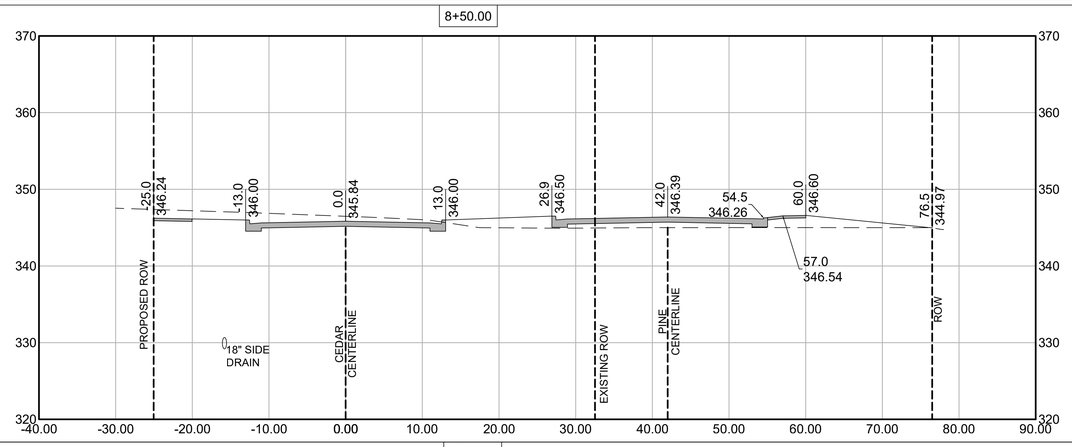
ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

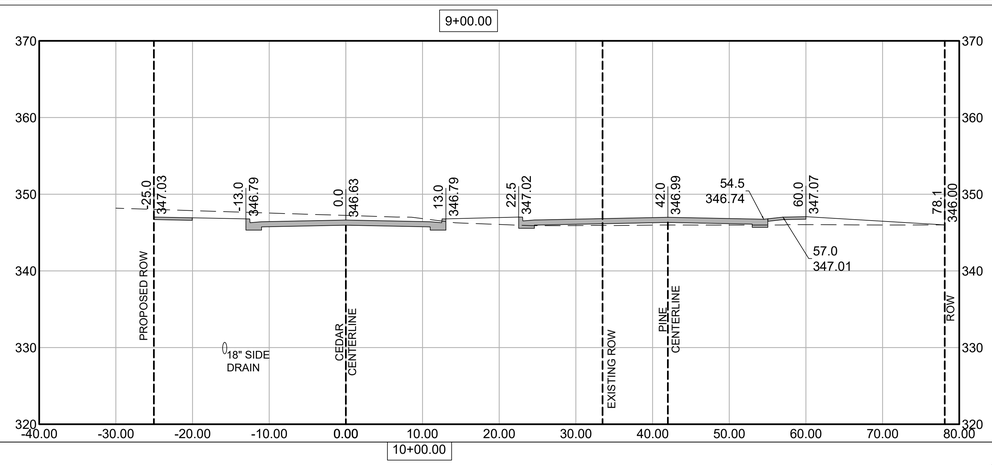
MARK	DATE	DESCRIPTION

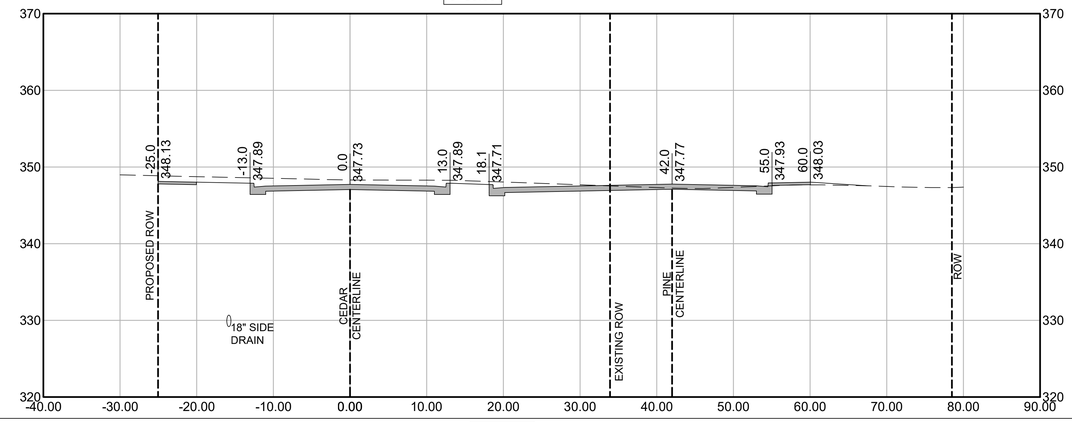
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

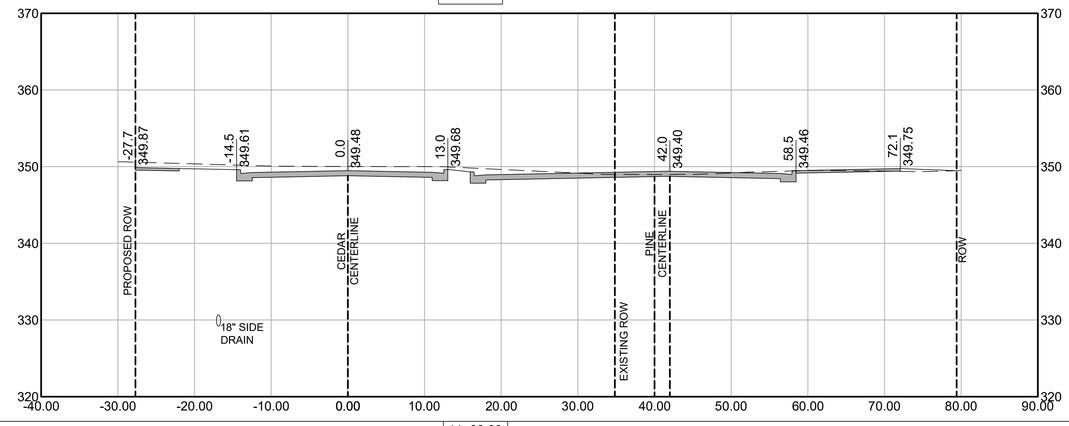
SHEET TITLE:
CROSS SECTIONS - 2

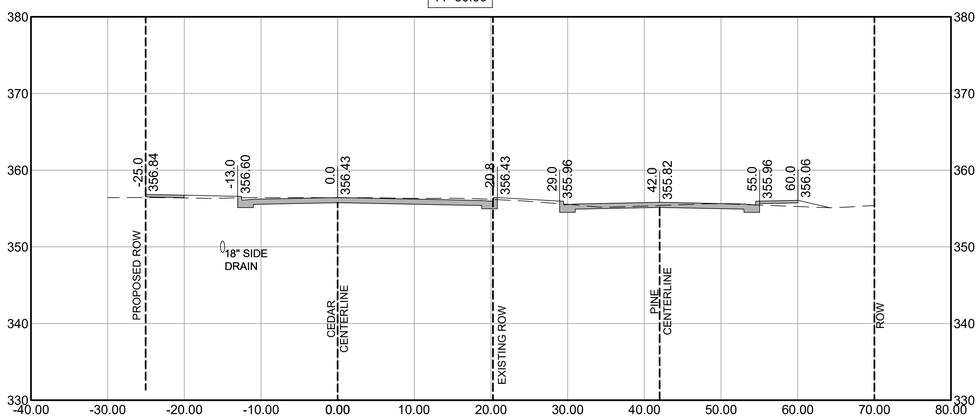
SHEET NUMBER:
C8.02

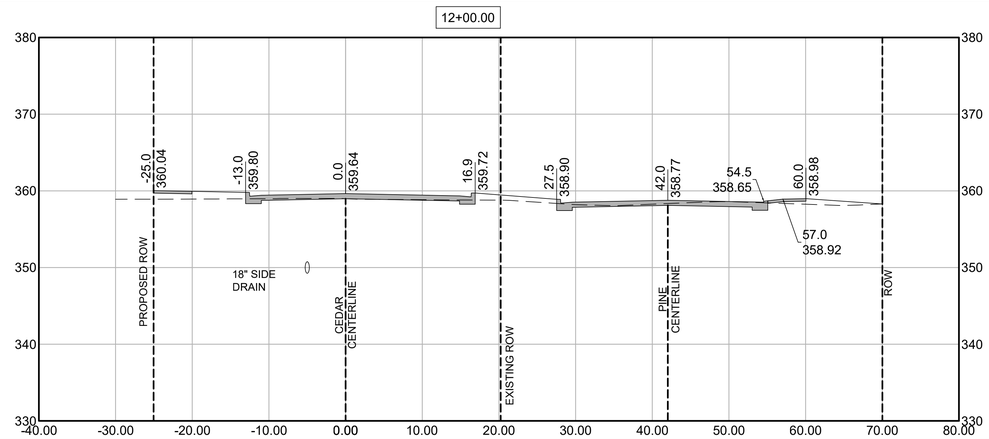












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CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS - ENGINEER - 2011

CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14042 BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
CROSS SECTIONS - 3

SHEET NUMBER:
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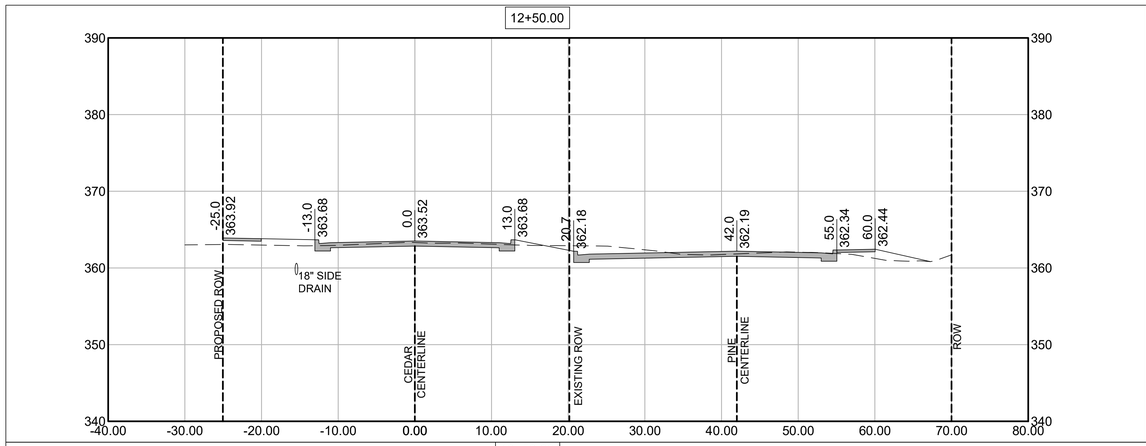

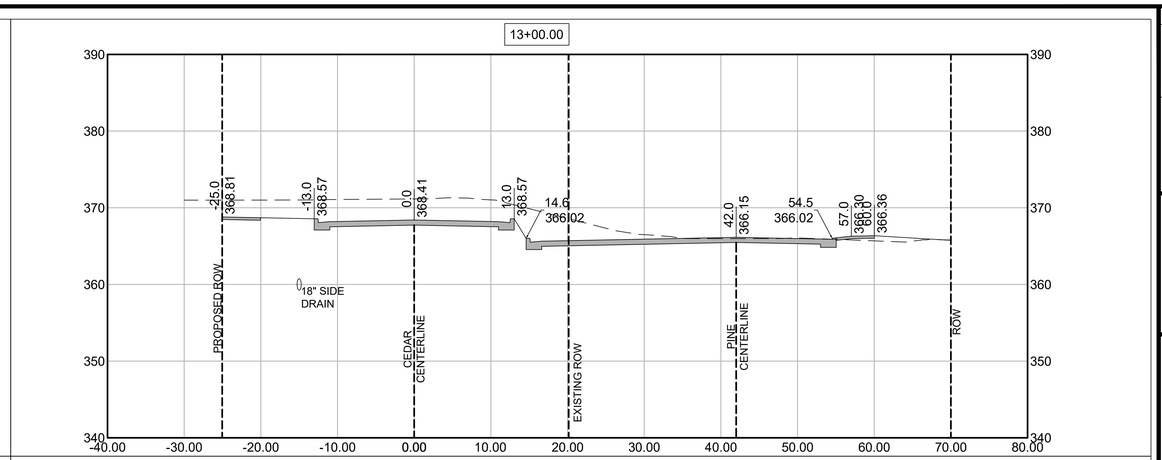

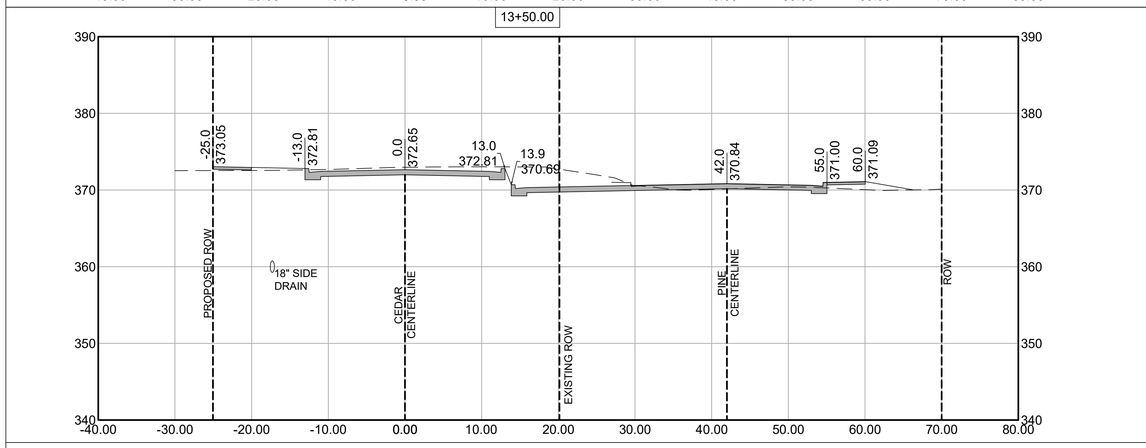

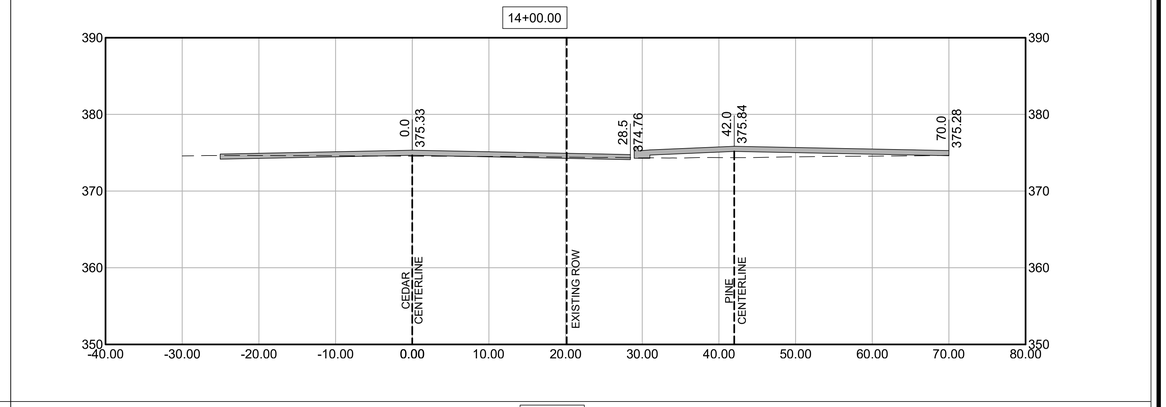

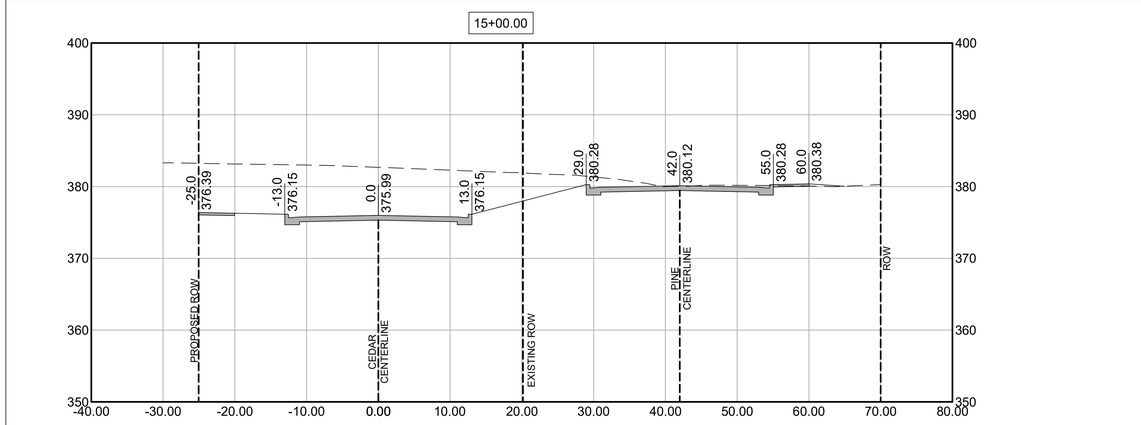

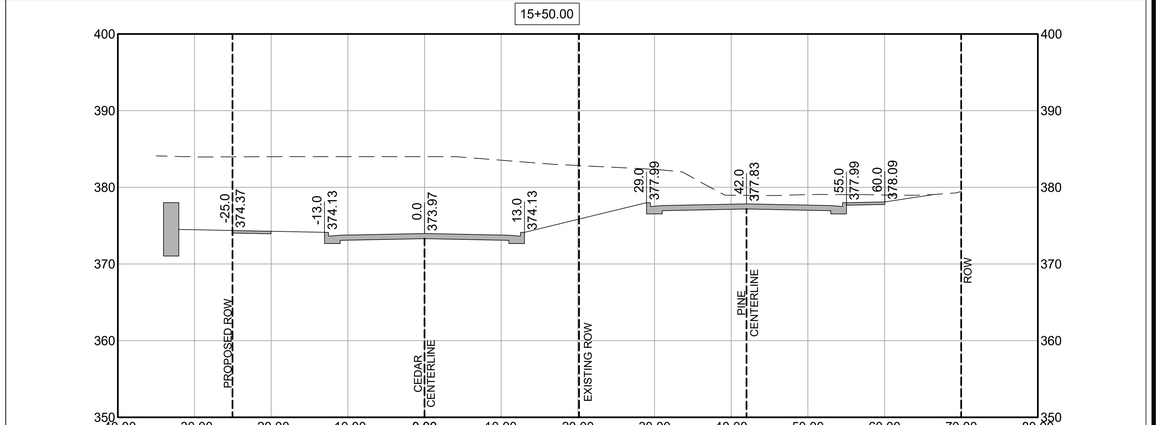

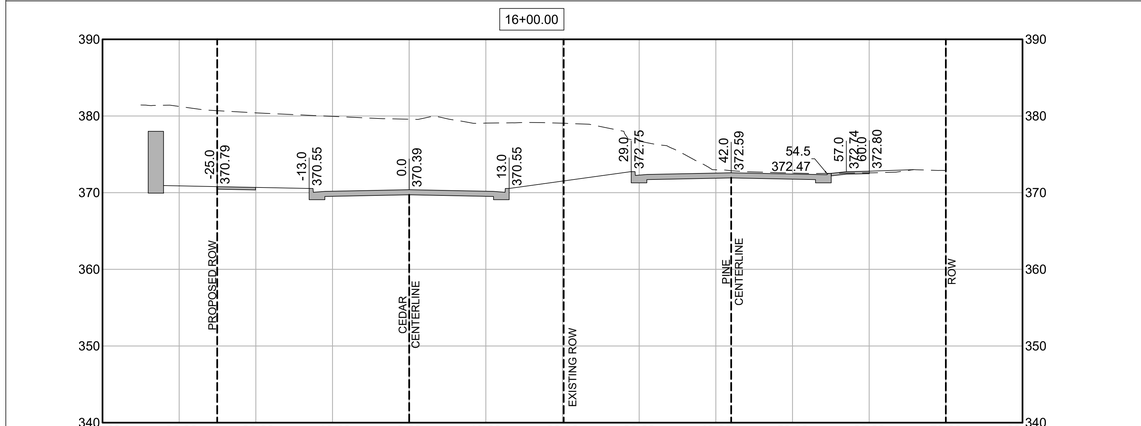

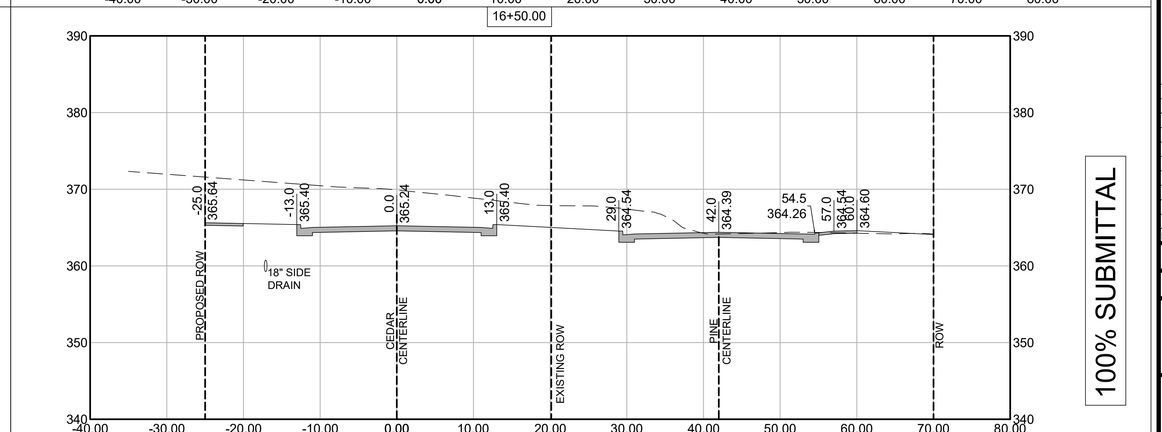

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ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
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MARK	DATE	DESCRIPTION
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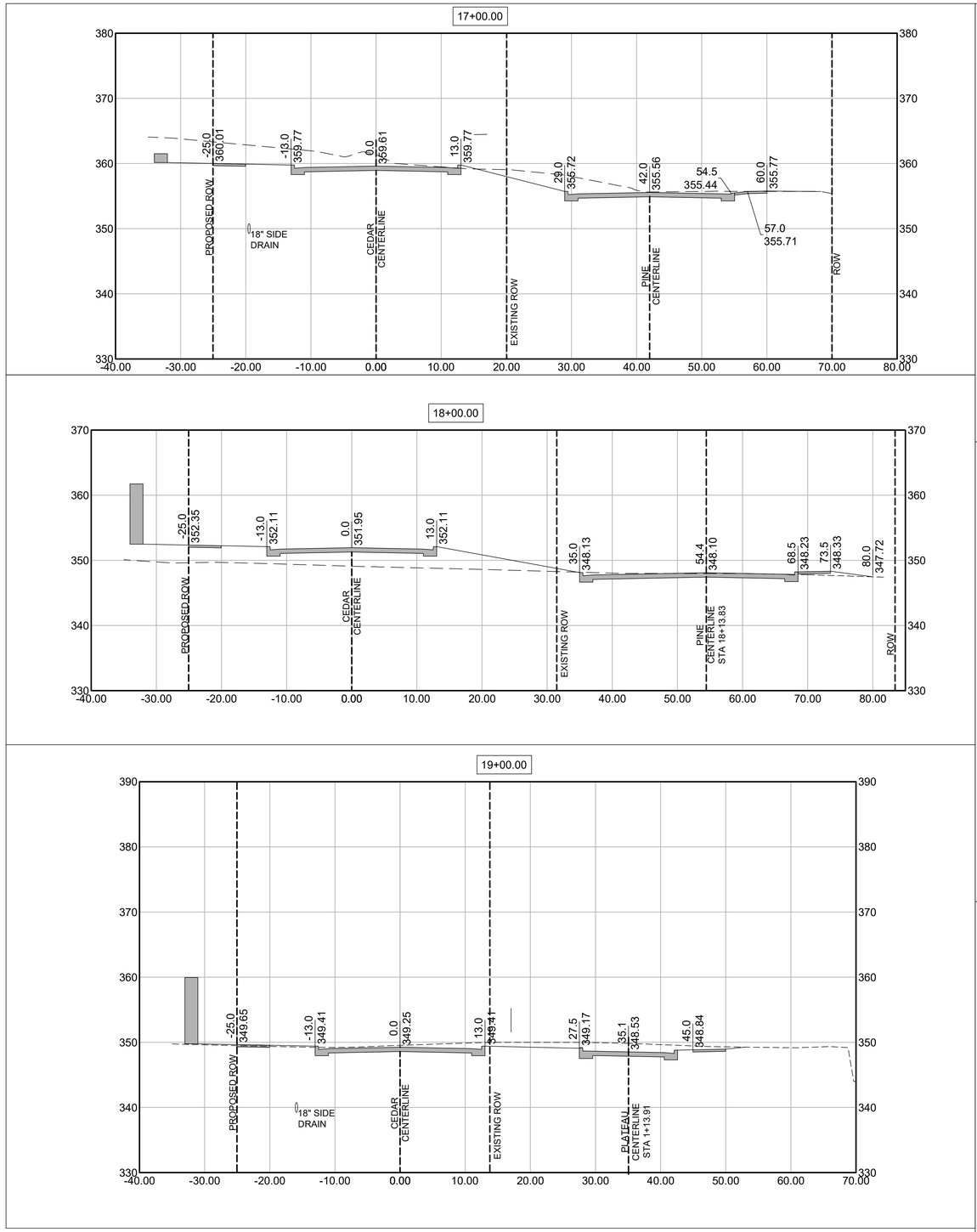
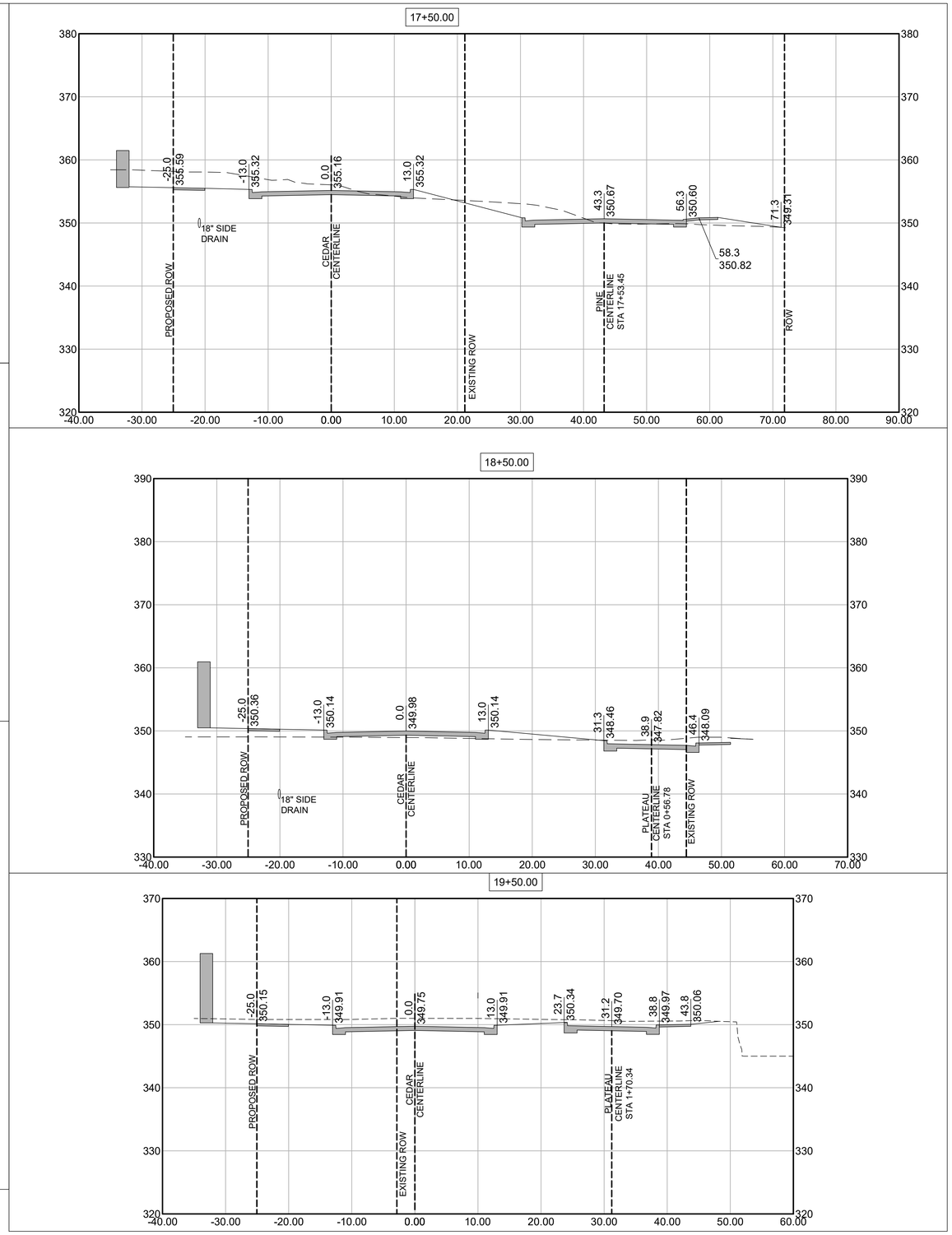
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
CROSS SECTIONS - 4

SHEET NUMBER:
C8.04





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ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
CROSS SECTIONS - 5

SHEET NUMBER:
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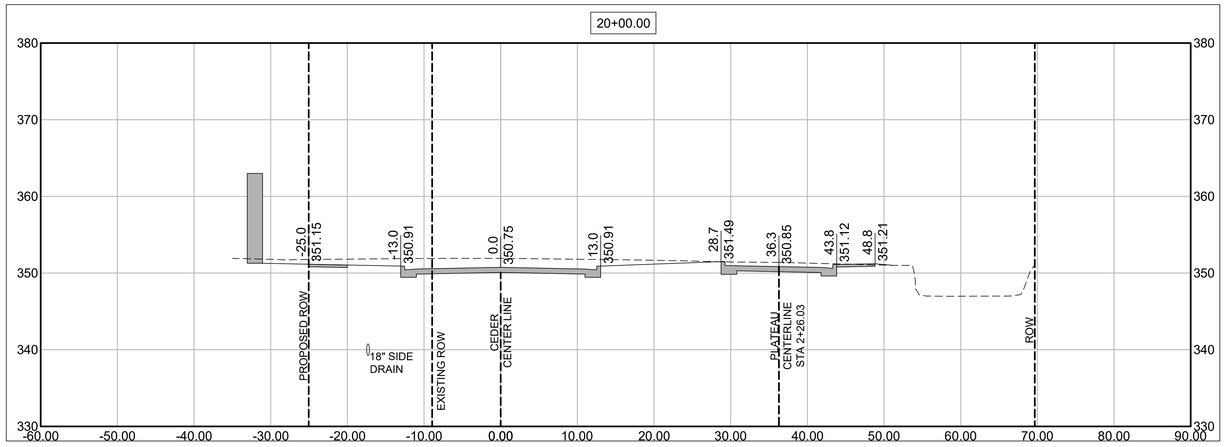

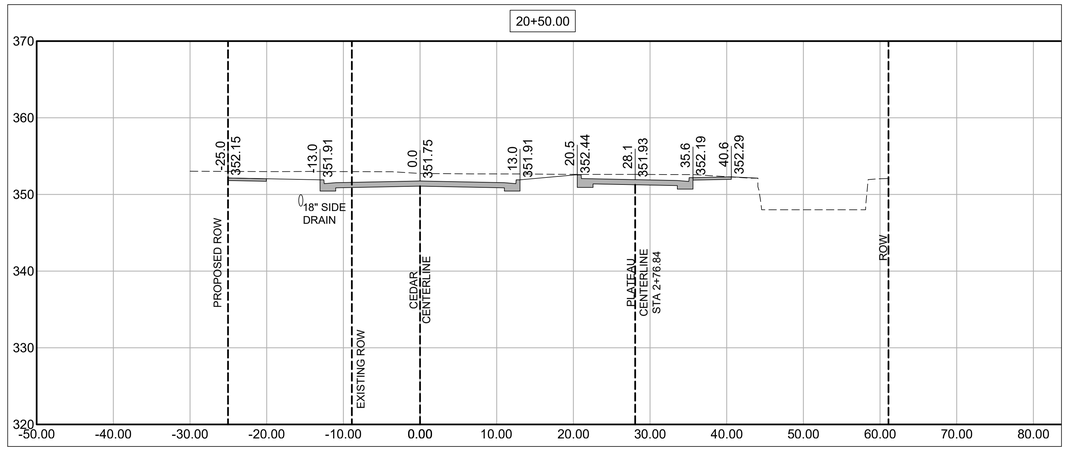

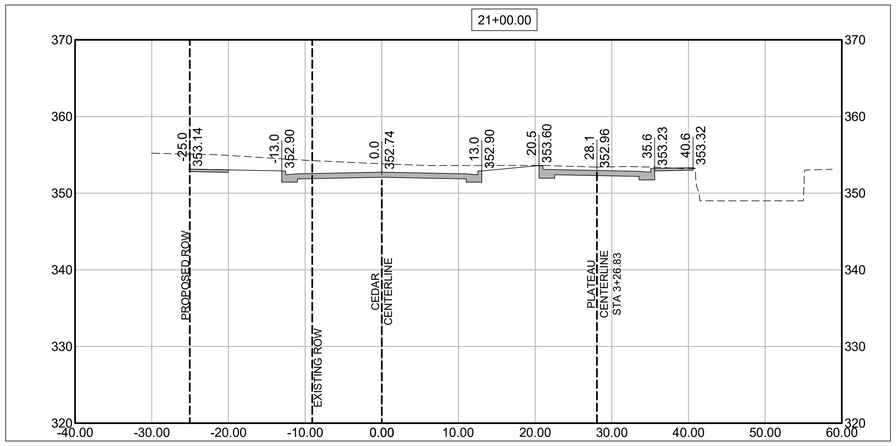

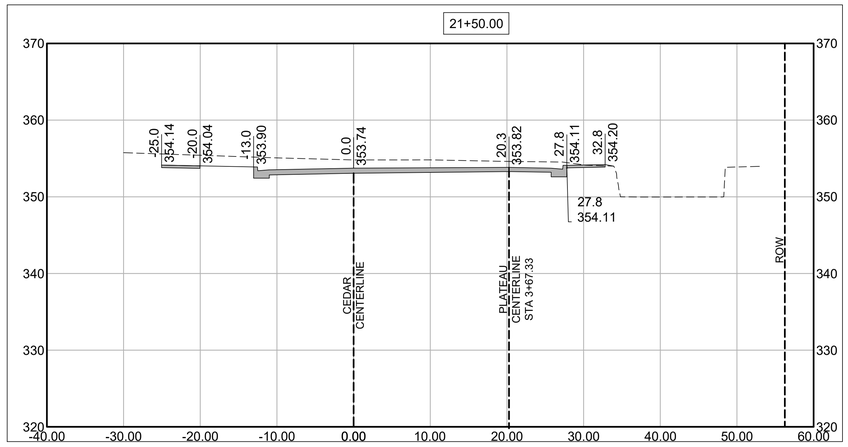

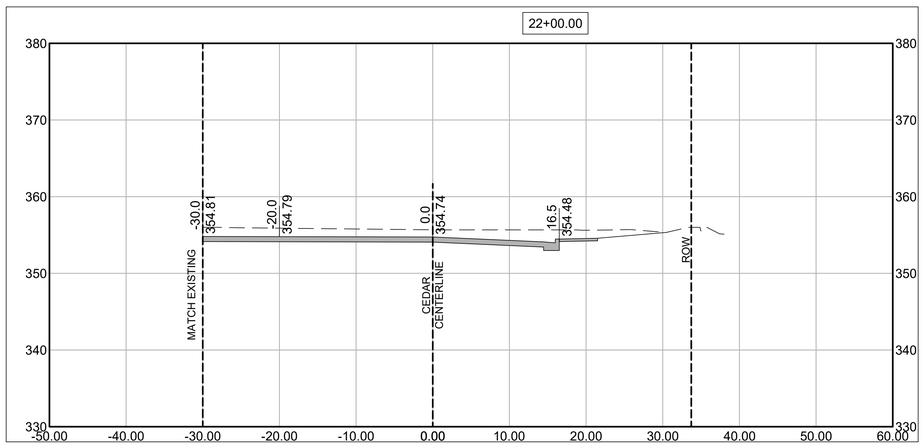

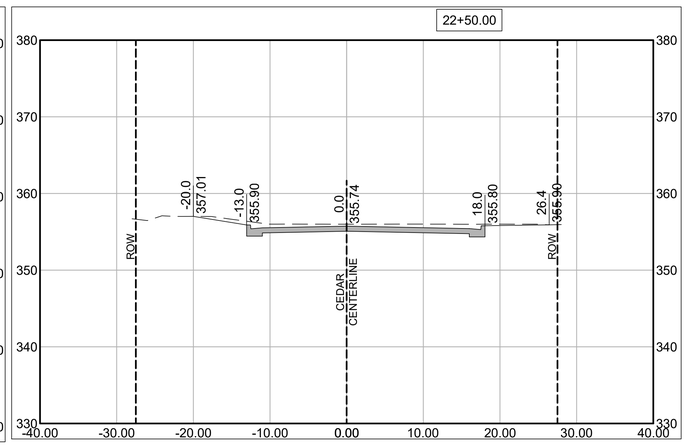

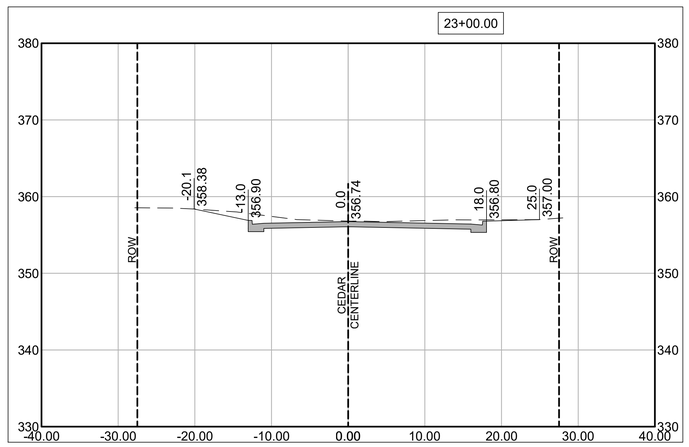

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CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS, INC. No.128 ARKANSAS - ENGINEER - 2011
CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14942 BENJAMIN L. KLODES
ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

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	-	-

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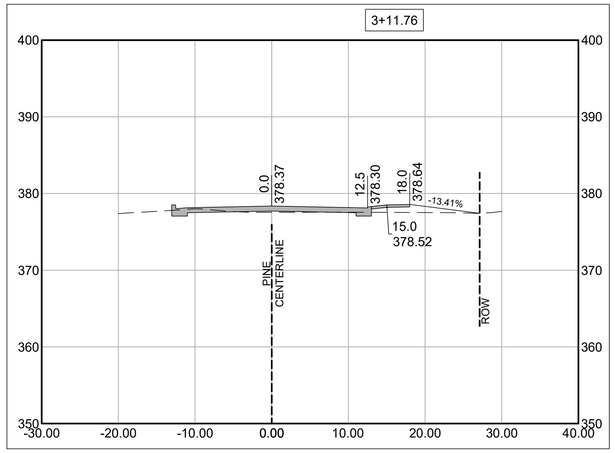
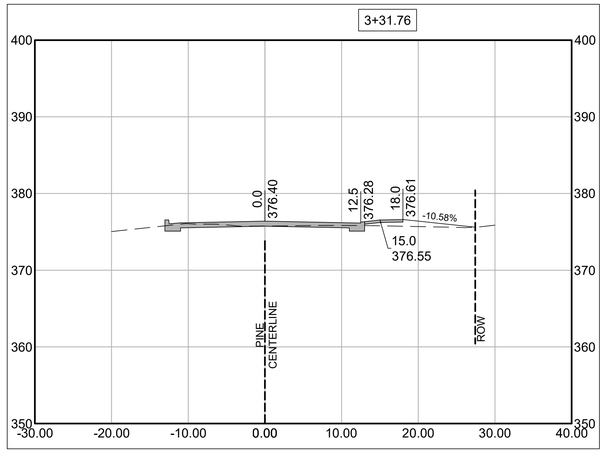
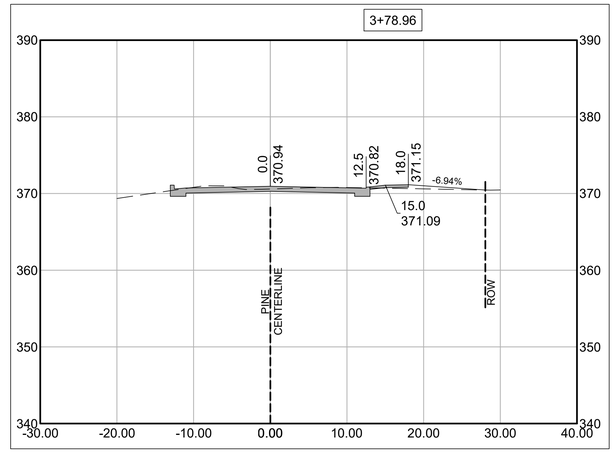
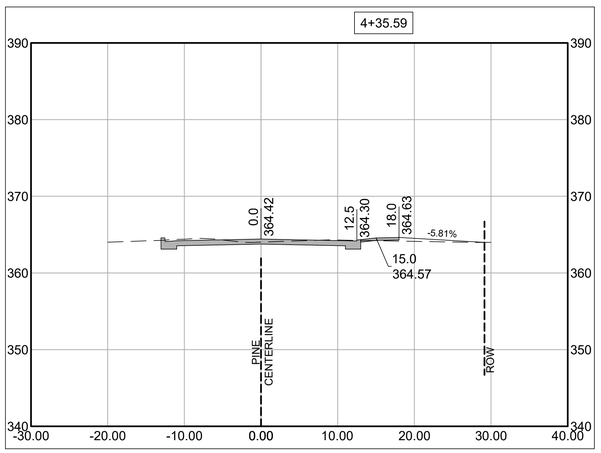
SHEET TITLE:
CROSS SECTIONS - 6

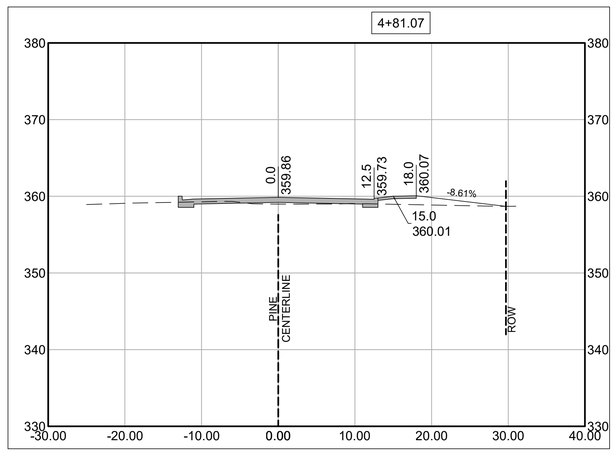
SHEET NUMBER:
C8.06

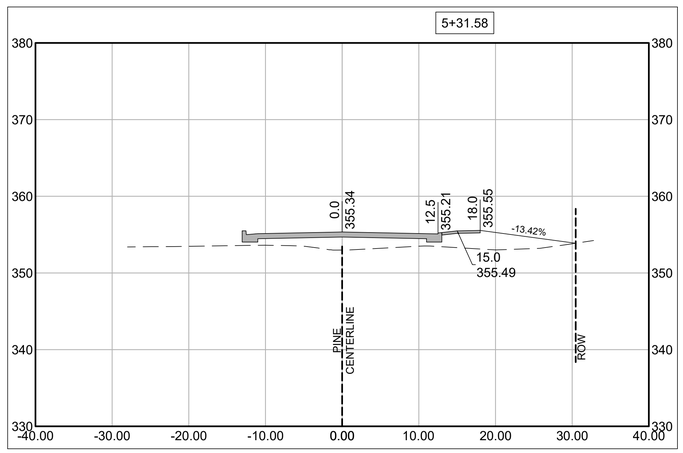


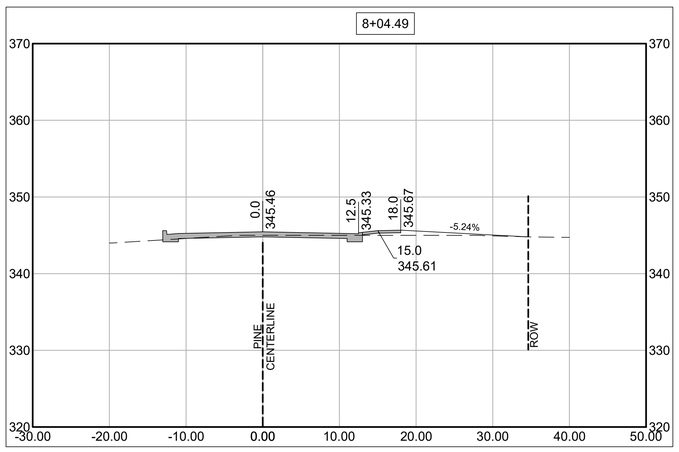


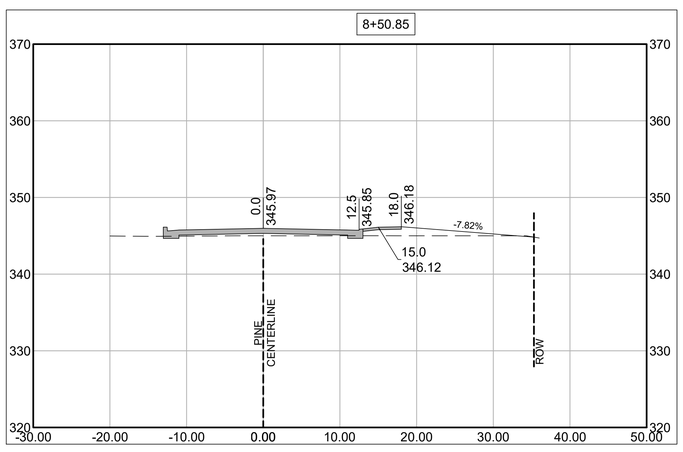


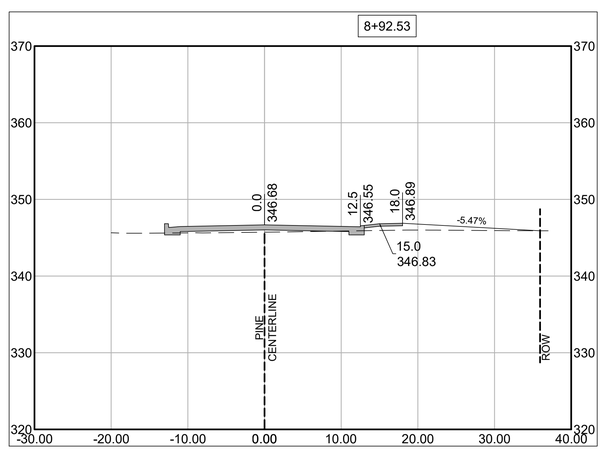












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UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
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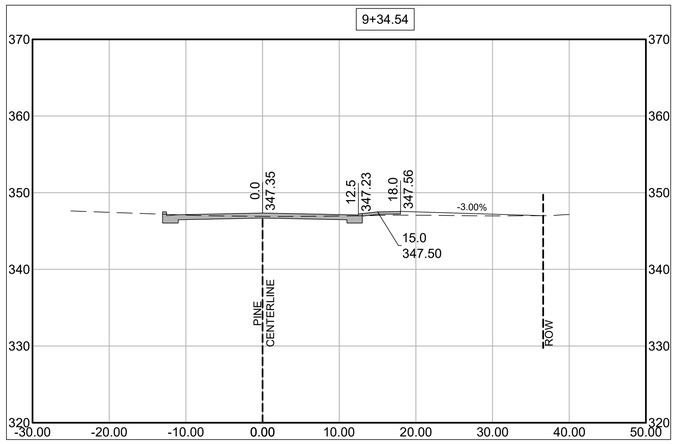
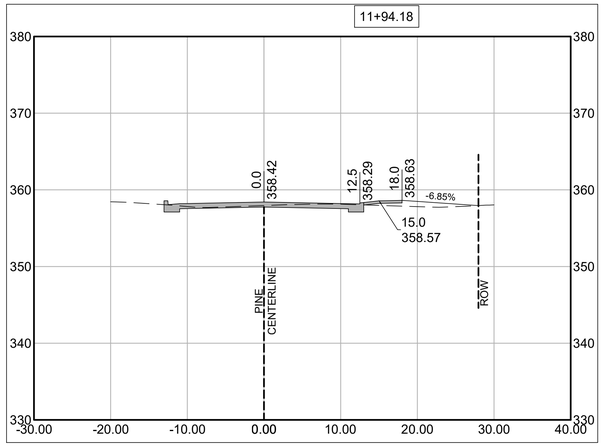
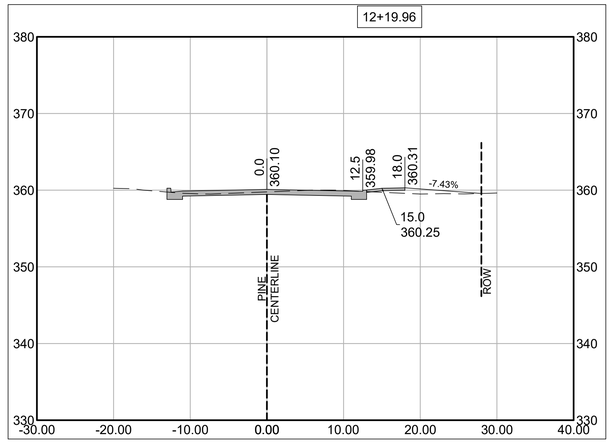
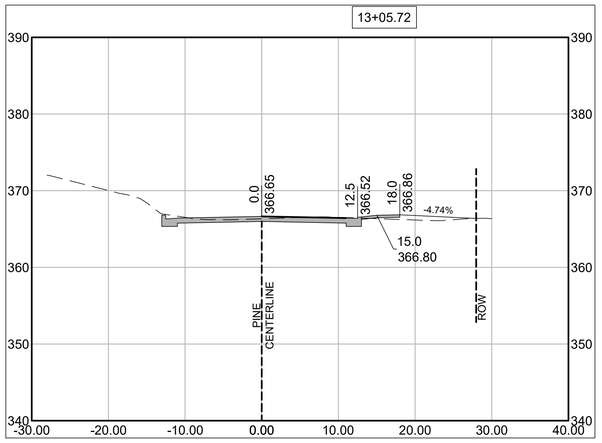
SHEET TITLE:
CROSS SECTIONS - 7

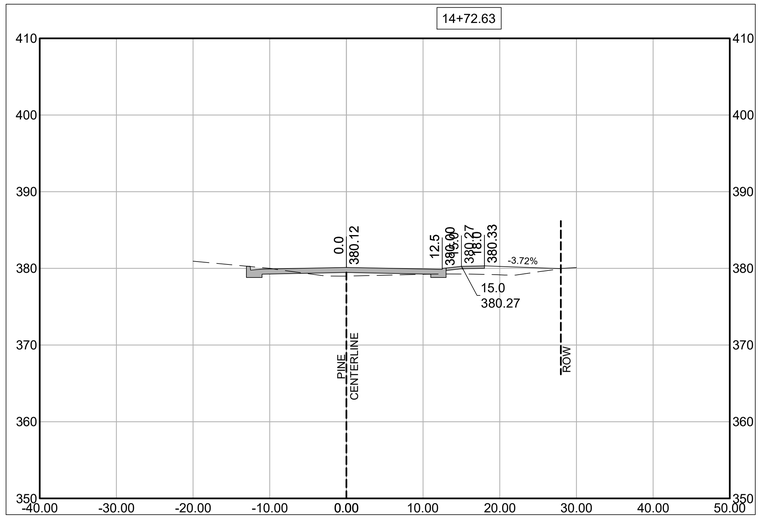
SHEET NUMBER:
C8.07

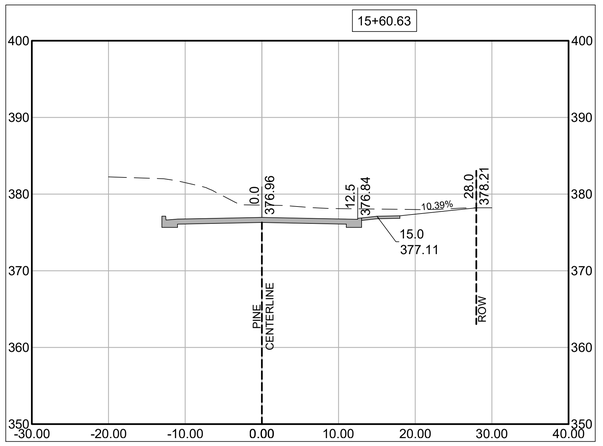


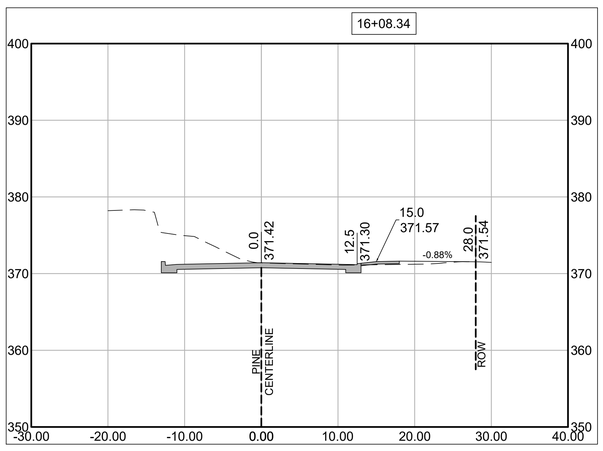


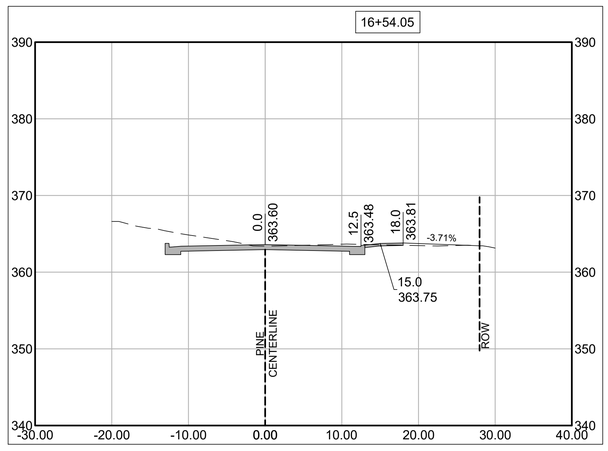


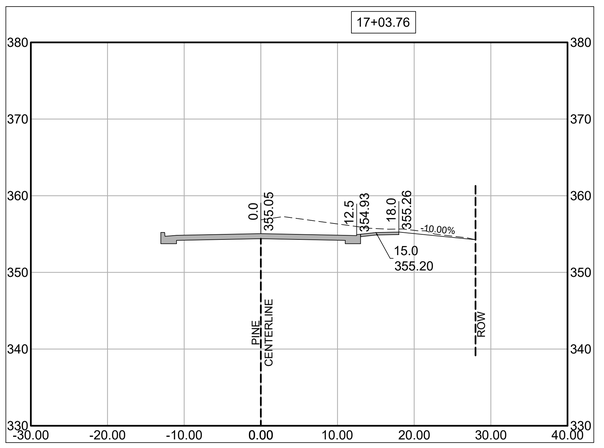












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CERTIFICATE OF AUTHORIZATION DEVELOPMENT CONSULTANTS INC. No.128 ARKANSAS - ENGINEER - 2011
CORPORATE SEAL

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 14942 BENJAMIN L. KILGORE
ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

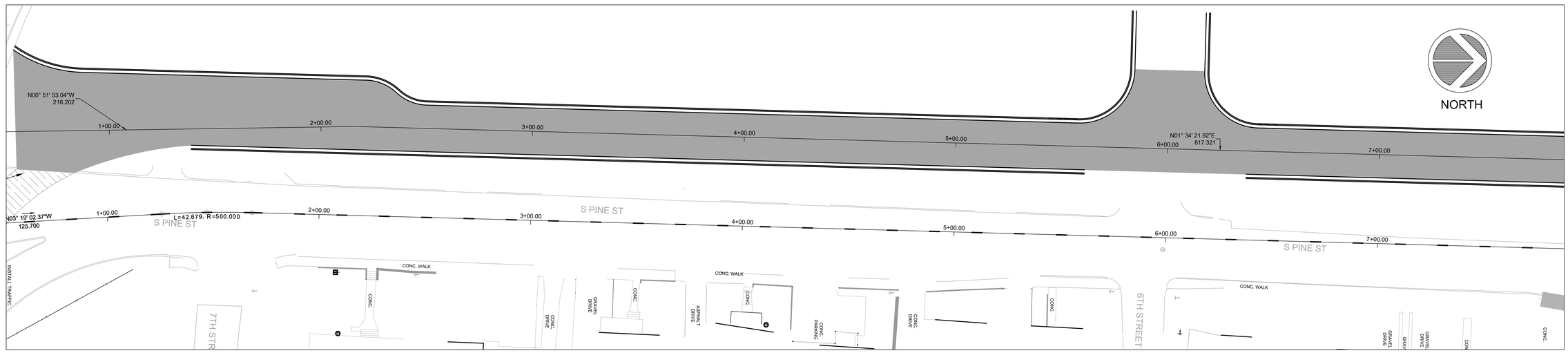
MARK	DATE	DESCRIPTION
ISSUE DATE:		09/21/20
PROJECT NUMBER:		77-19-0028

SHEET TITLE:
CROSS SECTIONS - 8

SHEET NUMBER:
C8.08

STAGING TABLE

1. 7TH STREET TO REMAIN OPEN
2. PINE STREET TO REMAIN OPEN
3. PROPOSED CEDAR STREET TO BE CONSTRUCTED



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ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

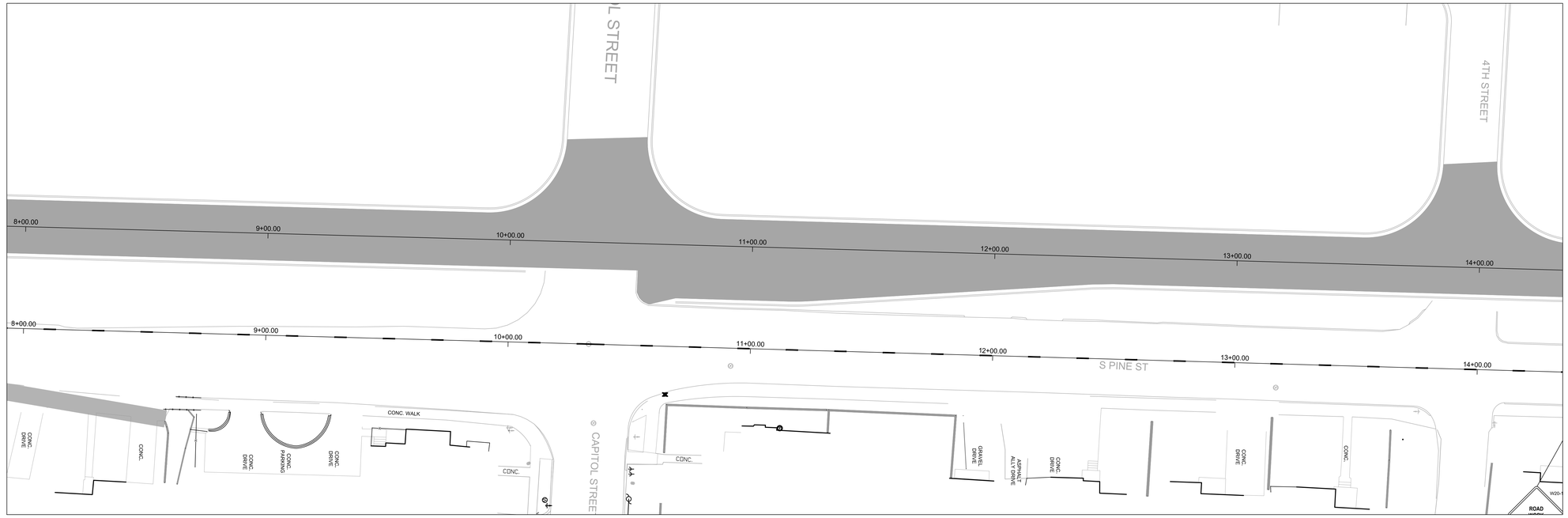
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

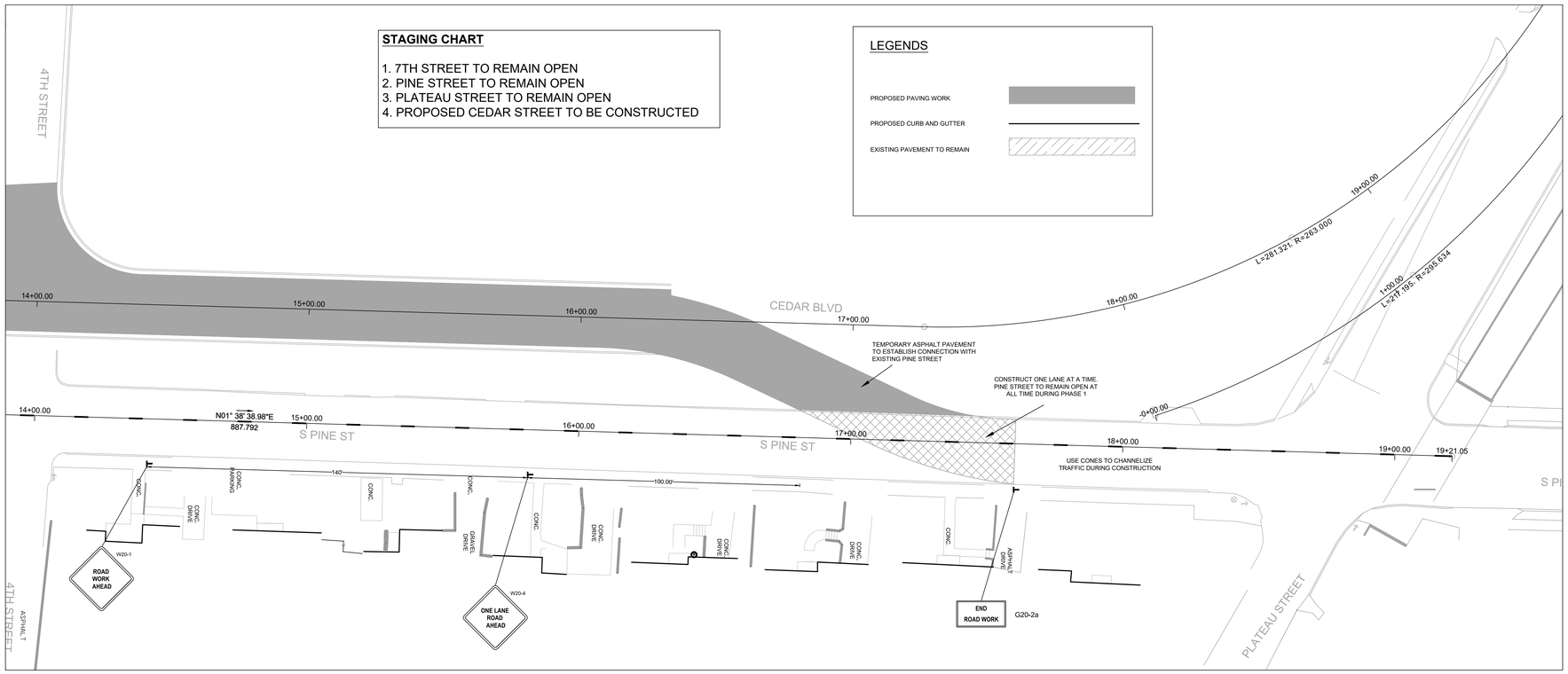
MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:
MAINTENANCE OF TRAFFIC PLANS PHASE - 1

SHEET NUMBER:
C11.01



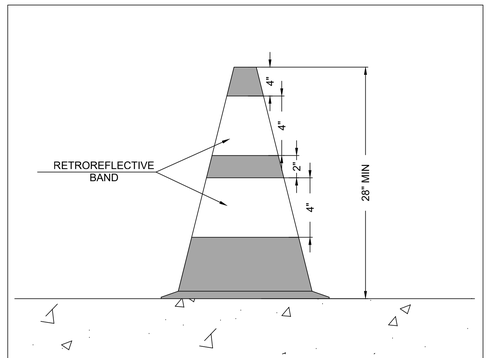


STAGING CHART

1. 7TH STREET TO REMAIN OPEN
2. PINE STREET TO REMAIN OPEN
3. PLATEAU STREET TO REMAIN OPEN
4. PROPOSED CEDAR STREET TO BE CONSTRUCTED

LEGENDS

- PROPOSED PAVING WORK
- PROPOSED CURB AND GUTTER
- EXISTING PAVEMENT TO REMAIN



DETAIL 1: TRAFFIC CONES

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Fax: (501) 663-8888
tme@bernhardtme.com

CERTIFICATE OF AUTHORIZATION — DEVELOPMENT CONSULTANTS INC. — No. 128 — ARKANSAS - ENGINEER - NOT VALID

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14942 — BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION

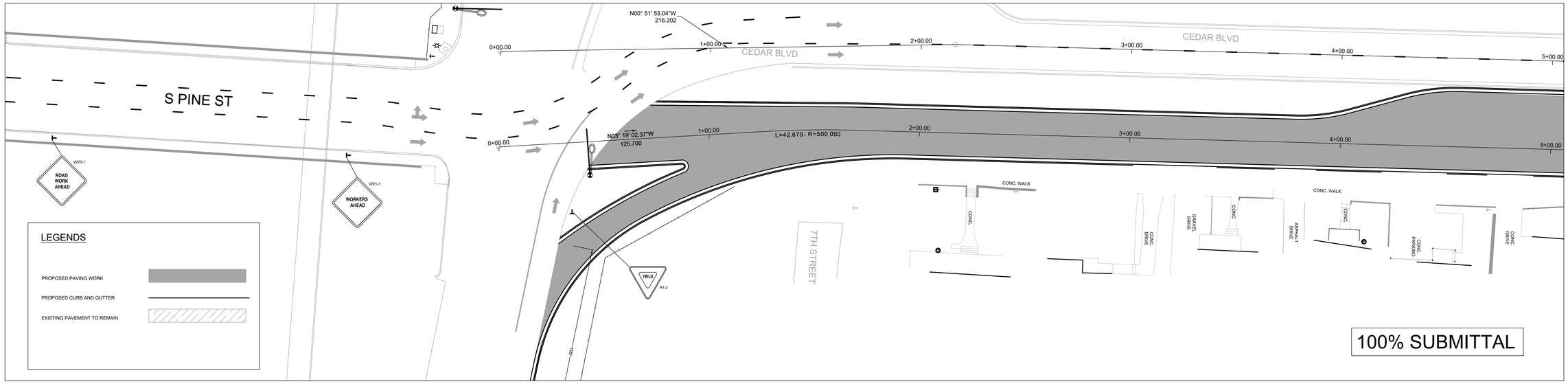
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

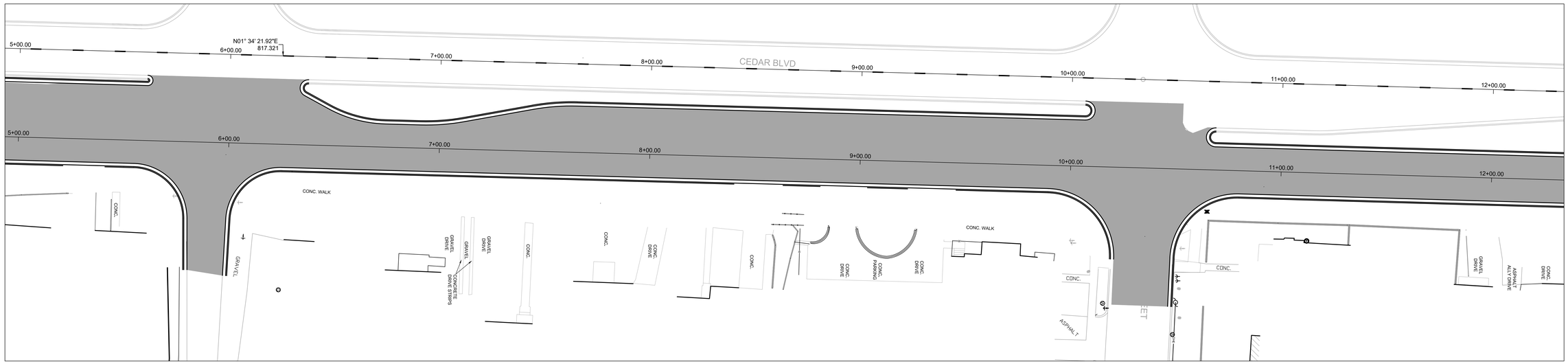
SHEET TITLE:

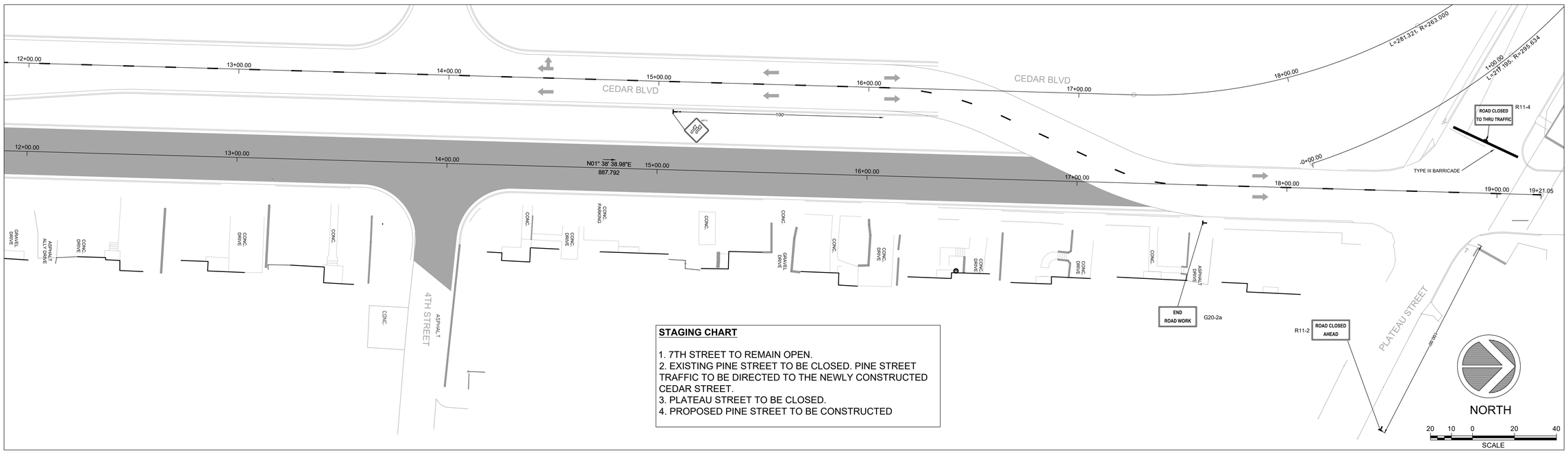
MAINTENANCE OF TRAFFIC PLANS PHASE - 1

SHEET NUMBER:

C11.02







STAGING CHART

1. 7TH STREET TO REMAIN OPEN.
2. EXISTING PINE STREET TO BE CLOSED. PINE STREET TRAFFIC TO BE DIRECTED TO THE NEWLY CONSTRUCTED CEDAR STREET.
3. PLATEAU STREET TO BE CLOSED.
4. PROPOSED PINE STREET TO BE CONSTRUCTED

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1 ALLIED DRIVE, BUILDING 2
SUITE 2600
LITTLE ROCK, AR 72202
Phone: (501) 666-6776
Fax: (501) 663-8888
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CERTIFICATE OF AUTHORITY — DEVELOPMENT CONSULTANTS INC. — No.128 — ARKANSAS - ENGINEER - NOT VALID WITHOUT SIGNATURE

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14042 — BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - II

SHEET NUMBER:

C11.03

LEGENDS

PROPOSED PAVING WORK

PROPOSED CURB AND GUTTER

EXISTING PAVEMENT TO REMAIN

STAGING CHART

1. 7TH STREET TO REMAIN OPEN.
2. NEWLY CONSTRUCTED PINE STREET TO BE OPEN TO TRAFFIC.
3. EXISTING PLATEAU STREET TO BE CLOSED FOR THROUGH TRAFFIC FROM CEDAR-PLATEAU INTERSECTION TO PINE-PLATEAU INTERSECTION.

NORTH

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CERTIFICATE OF AUTHORIZATION — DEVELOPMENT CONSULTANTS INC. — No.128 — ARKANSAS ENGINEER — NON-PE

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14042 — BENJAMIN L. KUDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.
UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

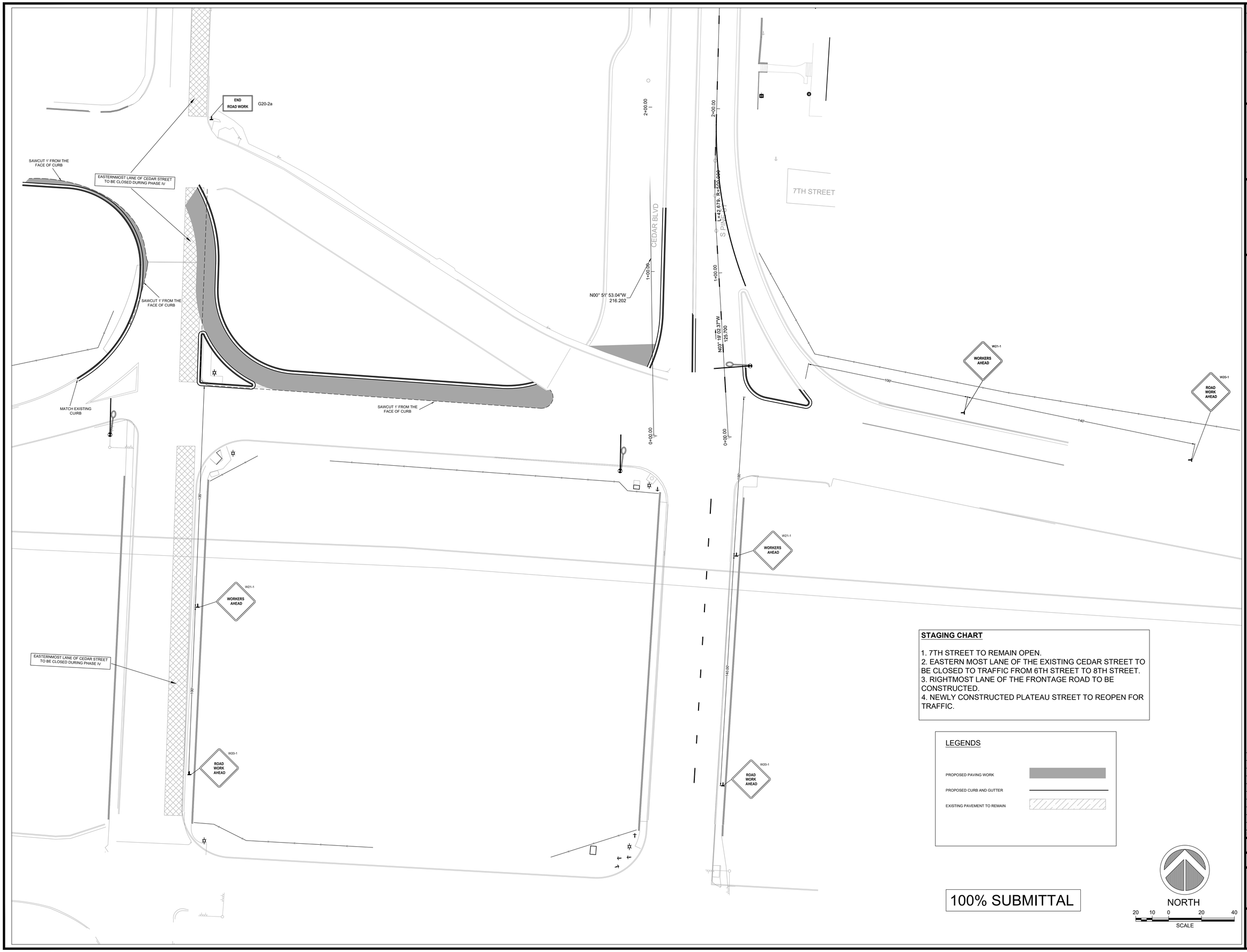
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - III

SHEET NUMBER:

C11.04



STAGING CHART

1. 7TH STREET TO REMAIN OPEN.
2. EASTERN MOST LANE OF THE EXISTING CEDAR STREET TO BE CLOSED TO TRAFFIC FROM 6TH STREET TO 8TH STREET.
3. RIGHTMOST LANE OF THE FRONTAGE ROAD TO BE CONSTRUCTED.
4. NEWLY CONSTRUCTED PLATEAU STREET TO REOPEN FOR TRAFFIC.

LEGENDS

PROPOSED PAVING WORK

PROPOSED CURB AND GUTTER

EXISTING PAVEMENT TO REMAIN

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ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

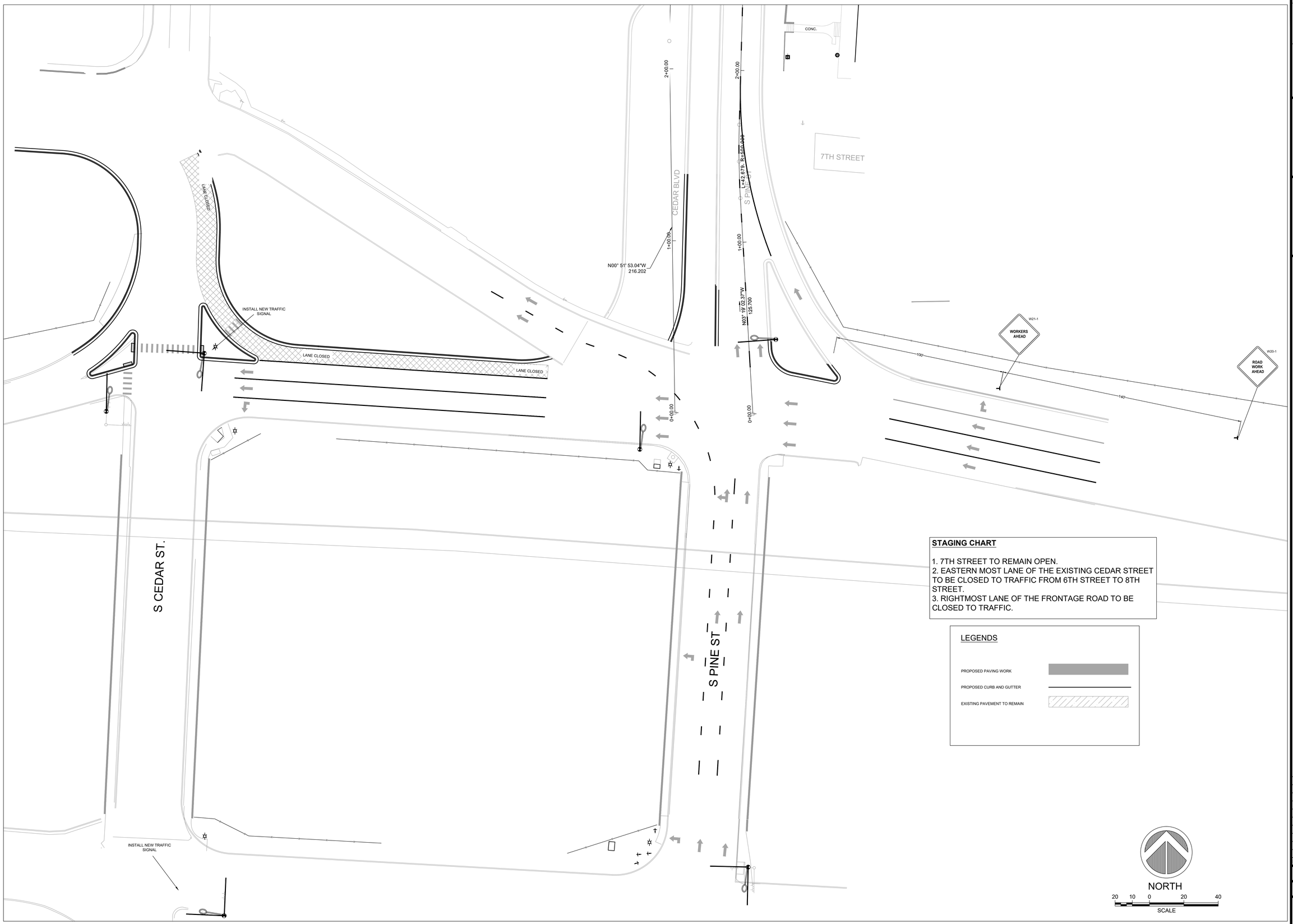
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - IV

SHEET NUMBER:

C11.05



STAGING CHART

1. 7TH STREET TO REMAIN OPEN.
2. EASTERN MOST LANE OF THE EXISTING CEDAR STREET TO BE CLOSED TO TRAFFIC FROM 6TH STREET TO 8TH STREET.
3. RIGHTMOST LANE OF THE FRONTAGE ROAD TO BE CLOSED TO TRAFFIC.

LEGENDS

PROPOSED PAVING WORK

PROPOSED CURB AND GUTTER

EXISTING PAVEMENT TO REMAIN

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Fax: (501) 663-8888
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LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
1	-	-

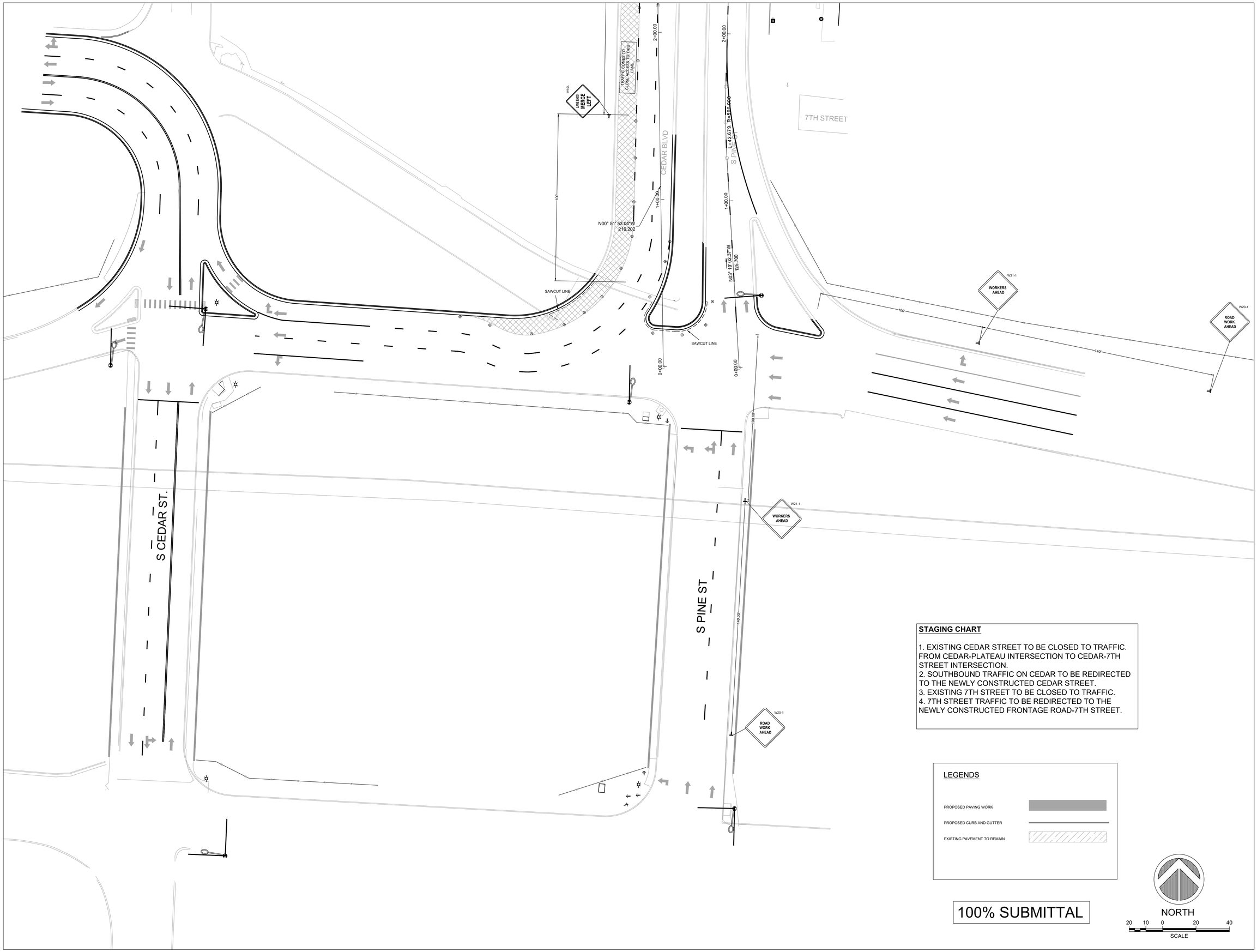
ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - V

SHEET NUMBER:

C11.06



STAGING CHART

1. EXISTING CEDAR STREET TO BE CLOSED TO TRAFFIC. FROM CEDAR-PLATEAU INTERSECTION TO CEDAR-7TH STREET INTERSECTION.
2. SOUTHBOUND TRAFFIC ON CEDAR TO BE REDIRECTED TO THE NEWLY CONSTRUCTED CEDAR STREET.
3. EXISTING 7TH STREET TO BE CLOSED TO TRAFFIC.
4. 7TH STREET TRAFFIC TO BE REDIRECTED TO THE NEWLY CONSTRUCTED FRONTAGE ROAD-7TH STREET.

LEGENDS

PROPOSED PAVING WORK

PROPOSED CURB AND GUTTER

EXISTING PAVEMENT TO REMAIN

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CERTIFICATE OF AUTHORIZATION — DEVELOPMENT CONSULTANTS INC. — No.128 — ARKANSAS - ENGINEER - NO. L

CORPORATE SEAL

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 14942 — BENJAMIN L. KIDDES

ENGINEER SEAL

ENERGY PERFORMANCE CONTRACT
ECSM-14 - RE-ALIGN PINE & CEDAR BLVD.

UNIVERSITY of ARKANSAS for MEDICAL SCIENCES
LITTLE ROCK, ARKANSAS

MARK	DATE	DESCRIPTION
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ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - VI

SHEET NUMBER:

C11.07

LEGENDS

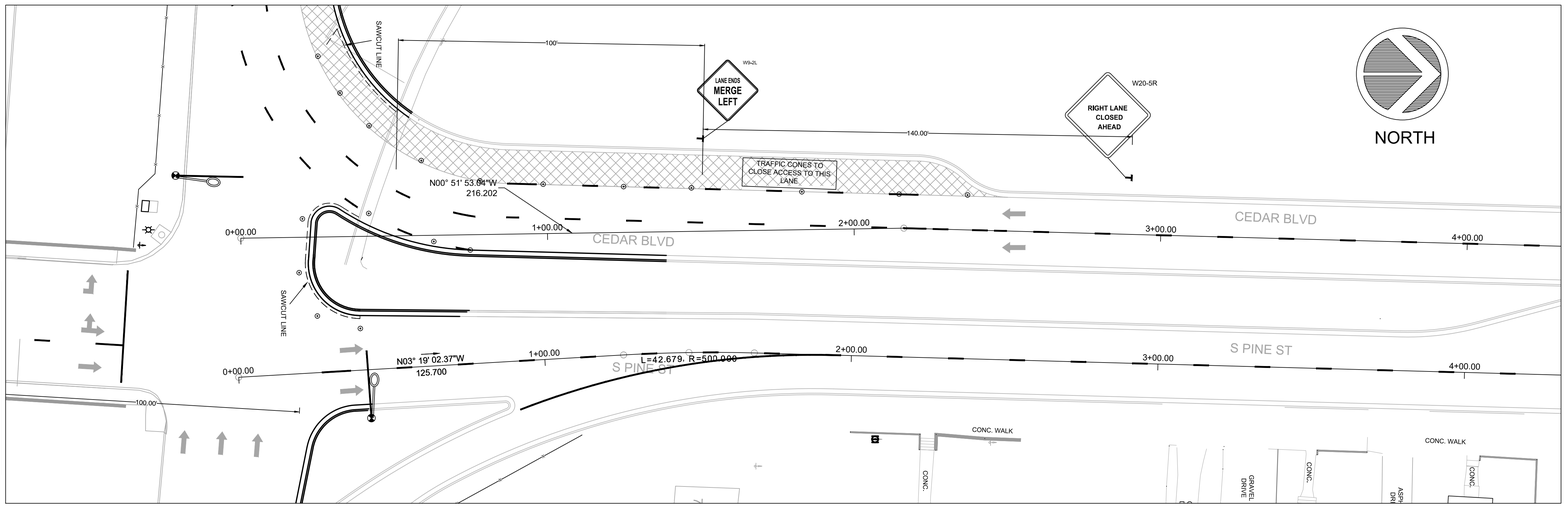
PROPOSED PAVING WORK

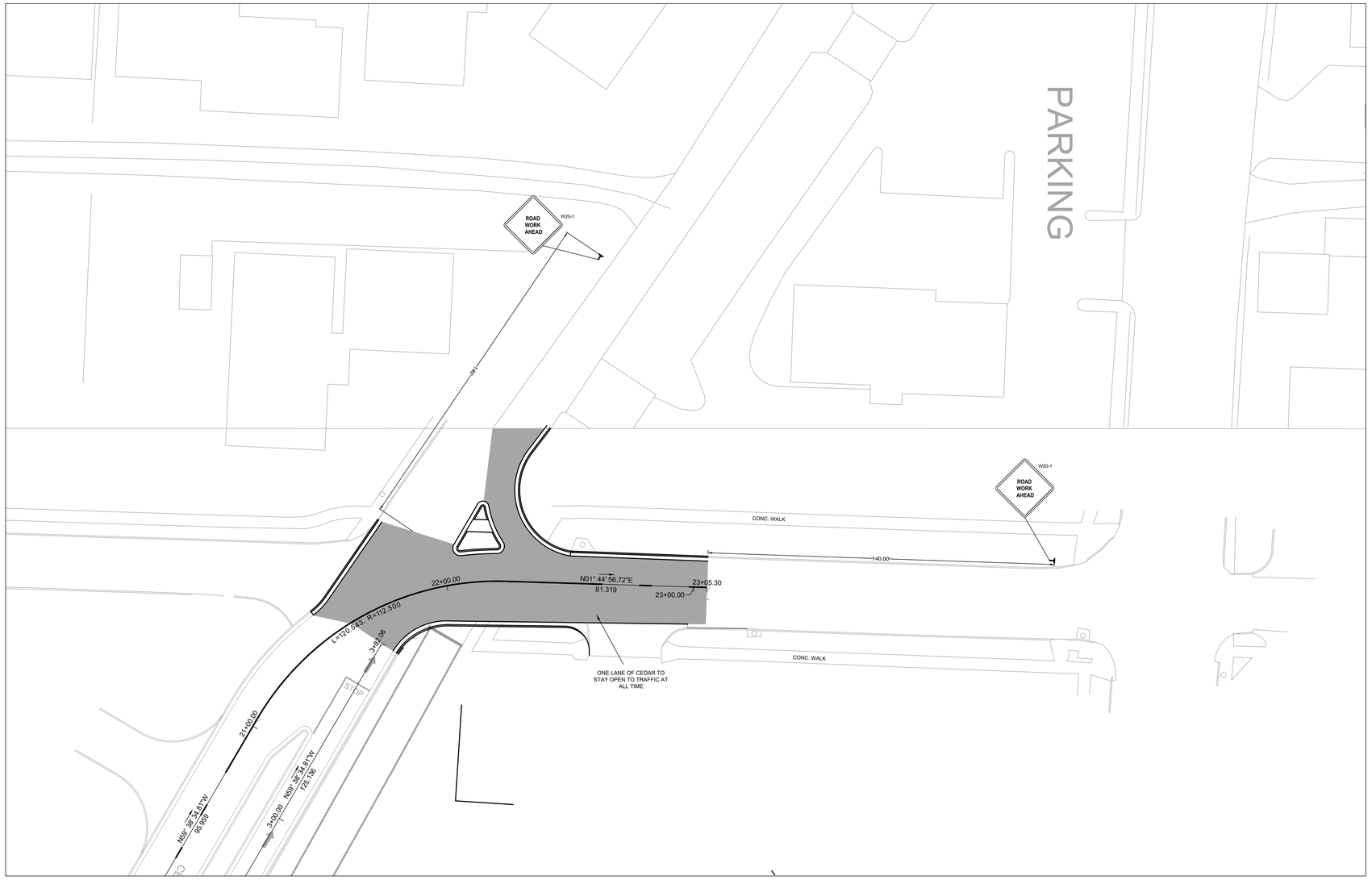
PROPOSED CURB AND GUTTER

EXISTING PAVEMENT TO REMAIN

STAGING CHART

1. EXISTING CEDAR STREET TO BE CLOSED TO TRAFFIC. FROM CEDAR PLATEAU INTERSECTION TO CEDAR 7TH STREET INTERSECTION.
2. SOUTHBOUND TRAFFIC ON CEDAR TO BE REDIRECTED TO THE NEWLY CONSTRUCTED CEDAR STREET.
3. EXISTING 7TH STREET TO BE CLOSED TO TRAFFIC.
4. 7TH STREET TRAFFIC TO BE DIRECTED TO THE NEWLY CONSTRUCTED FRONTAGE ROAD-7TH STREET.





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MARK	DATE	DESCRIPTION
1	-	-

ISSUE DATE:	09/21/20
PROJECT NUMBER:	77-19-0028

SHEET TITLE:

MAINTENANCE OF TRAFFIC PLANS PHASE - VI

SHEET NUMBER:

C11.08