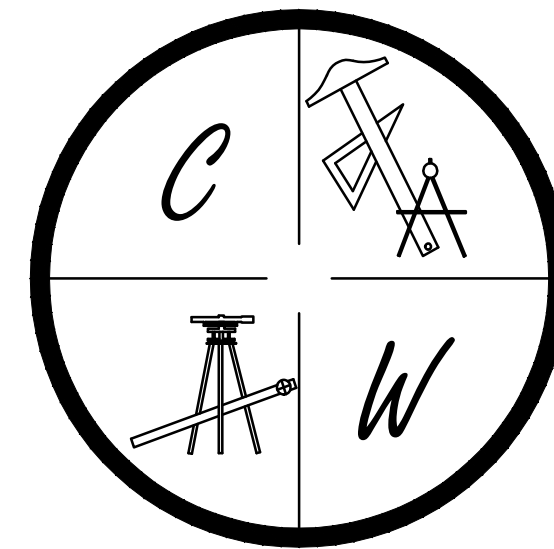


BRIDGER PARK

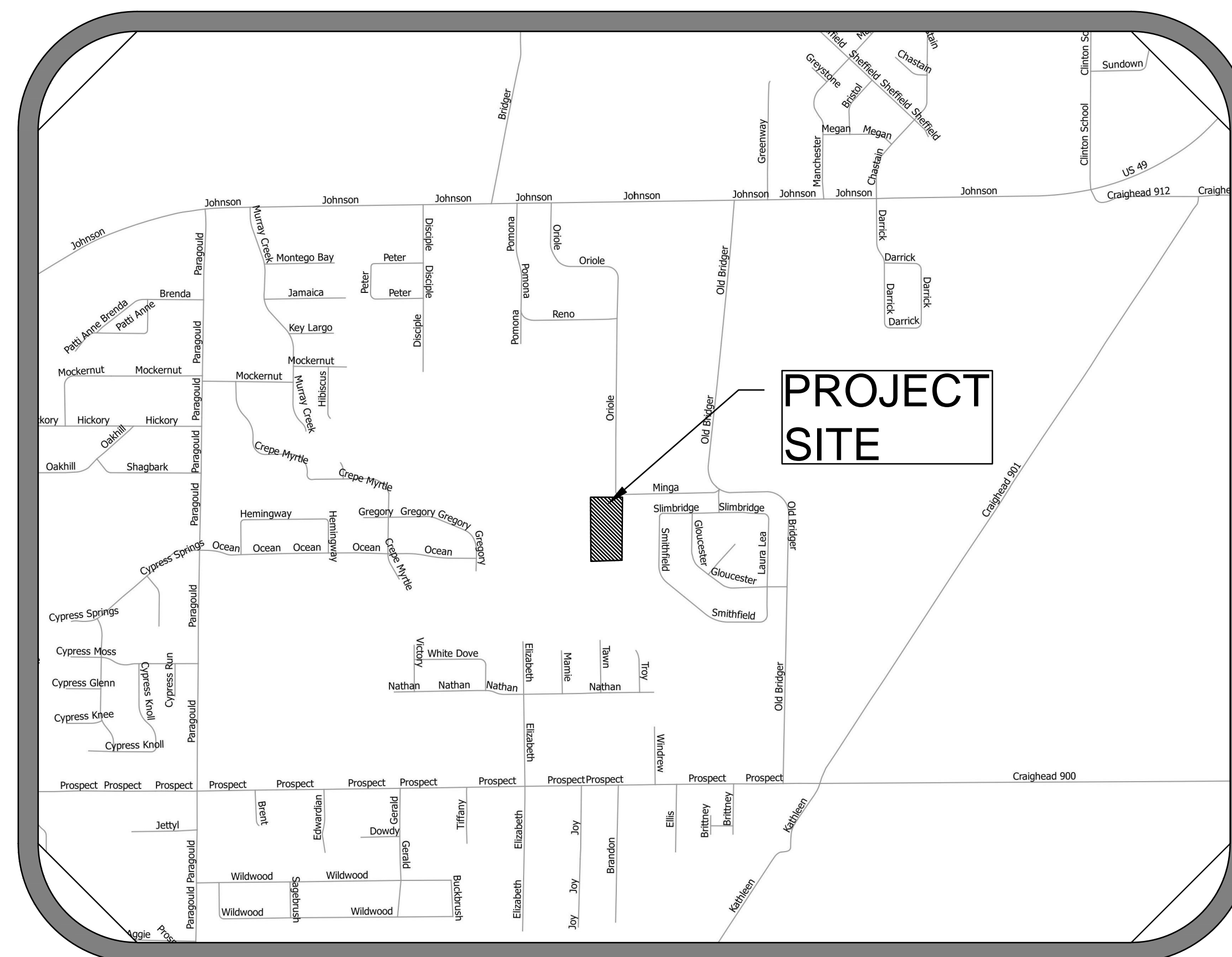
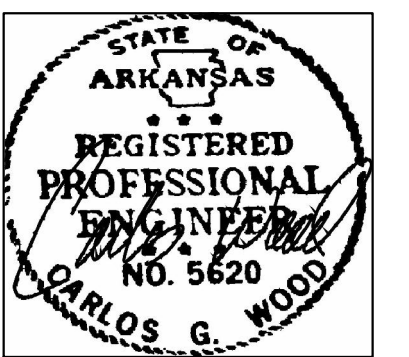
PHASE I

JONESBORO, ARKANSAS
 STREET & DRAINAGE PLANS
 MAY 2016



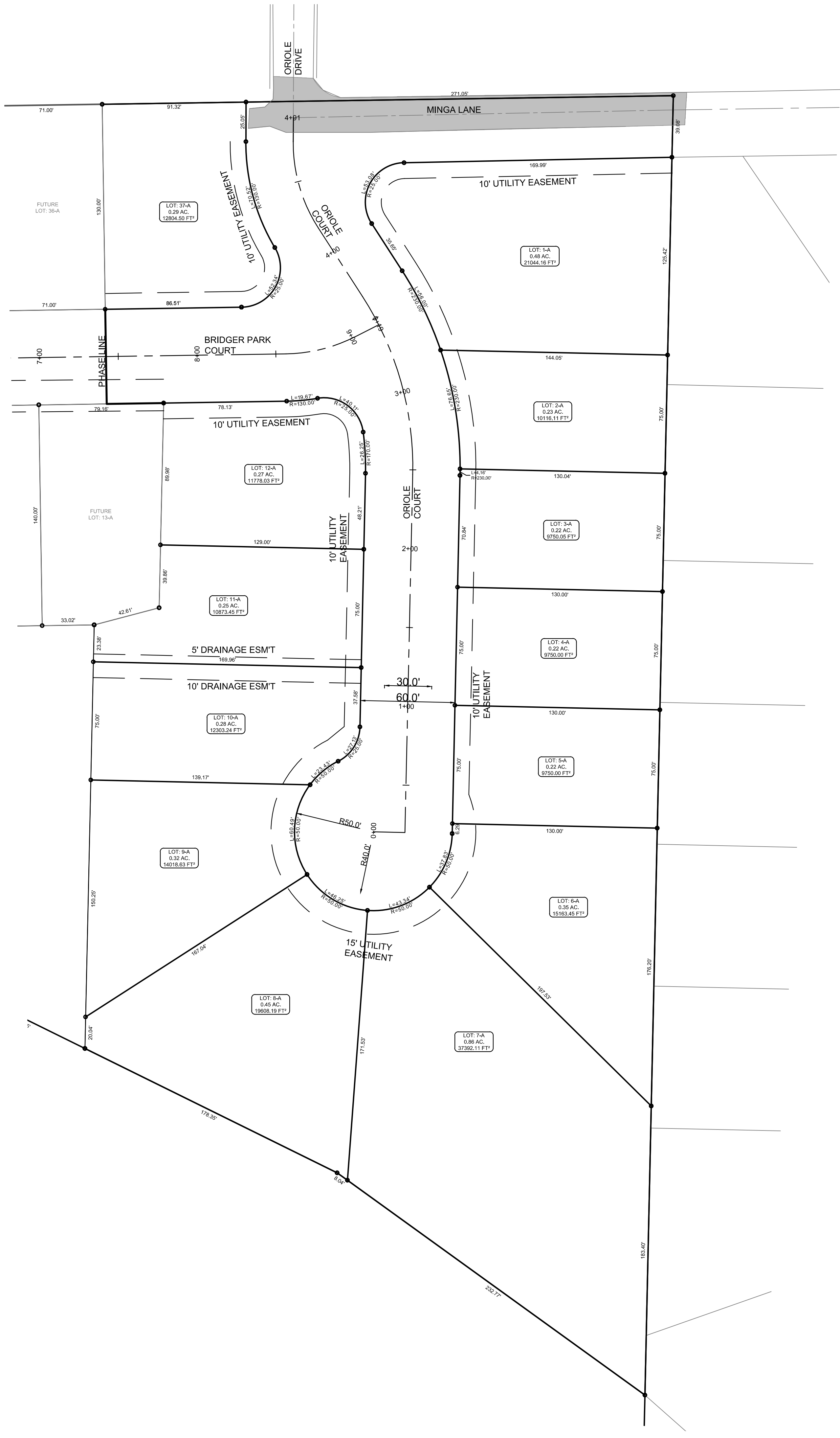
CARLOS WOOD, P.E.
 ENGINEERING CONSULTANT
 148 CR 375
 BONO, AR 72416
 PHONE/FAX: (870) 972-8335
 EMAIL: WOODENGR@SBCGLOBAL.NET
 WEBSITE: WWW.WOODENGR.COM

PROJECT VICINITY MAP
 SCALE: 1" = 1000'



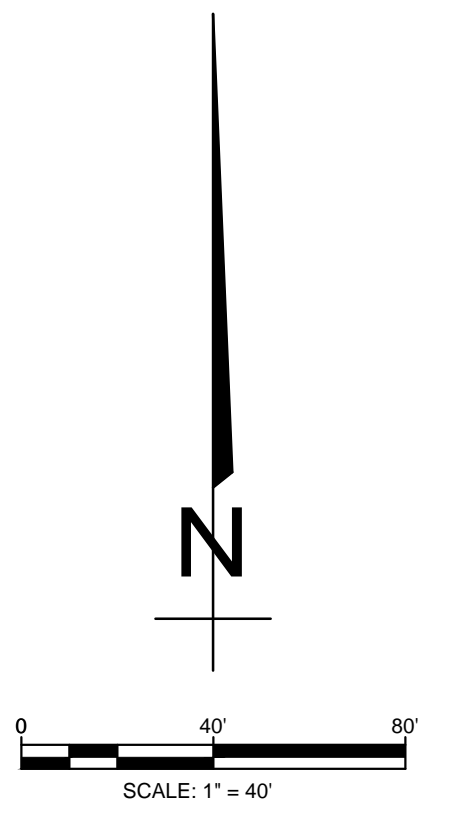
ARKANSAS ONE-CALL SYSTEM, INC.
 1-800-482-8998 OR 811

SHEET LAYOUT	
PLAT	
TOPOGRAPHY & DRAINAGE	STR-1
ORIOLE COURT & BRIDGER PARK COURT PLAN & PROFILE	STR-2
SUBDIVISION OVERALL	OVR
UTILITY PLAN	UTIL-1
EROSION CONTROL MAP	ECM-1
TYPICAL STREET DETAILS	DET-1 DET-2



LEGEND

- These standard symbols will be found in the drawing.
- FOUND CORNER AS NOTED
 - SET 1/2" REBAR W/ CAP
 - FD COTTON PICKER SPINDLE
 - ▲ HIGHWAY RIGHT OF WAY MARKER
 - FOUND REBAR
 - △ CALCULATED CORNER
 - x-x- FENCE LINE
 - E-E- ELECTRIC
 - SET PK NAIL
 - ⊥ POWER POLE

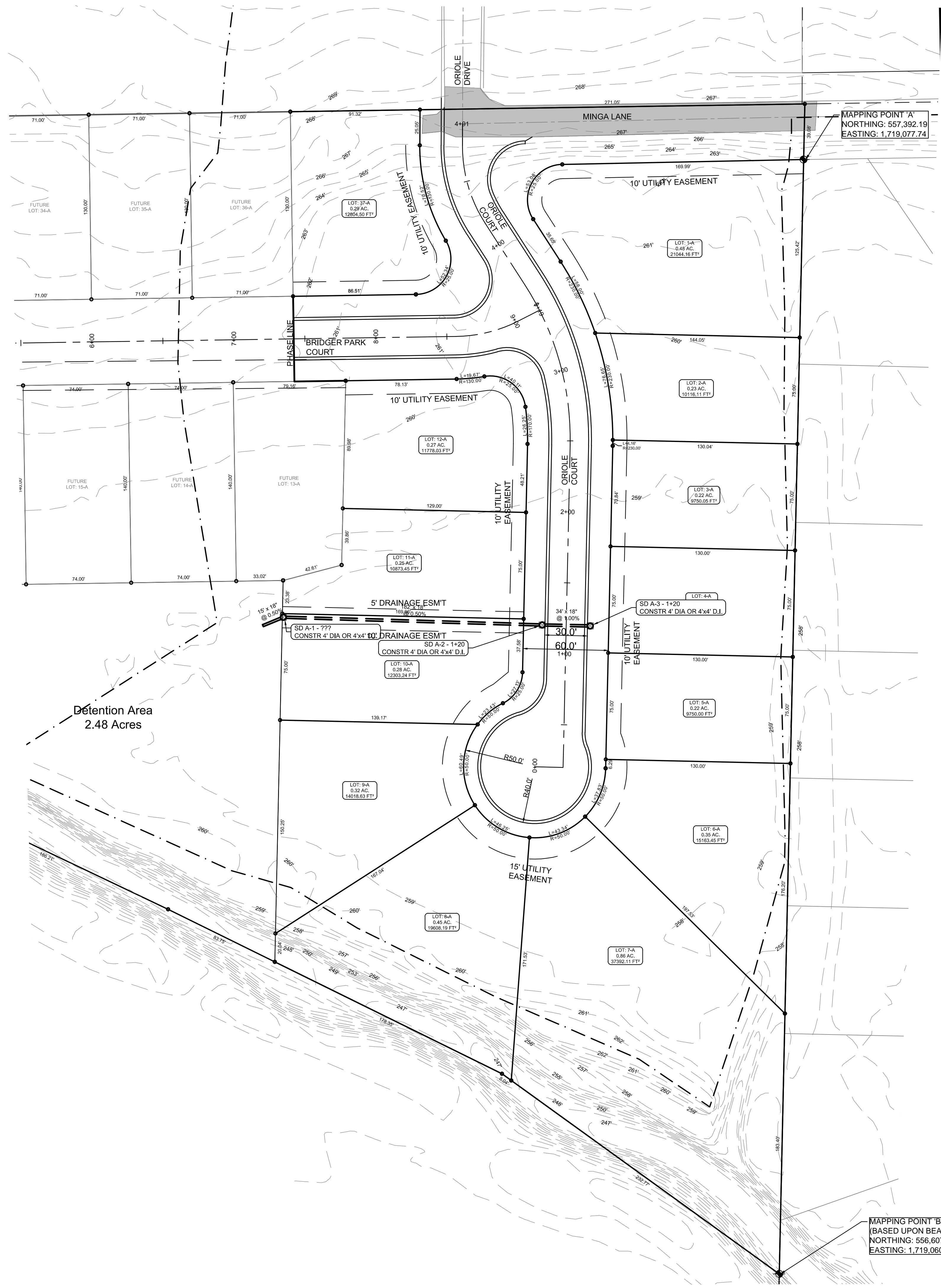


BRIDGER PARK PHASE I
PRELIMINARY LOT LAYOUT
(NOT FOR RECORD)

DATE: 4/16/16
 REV:
 REVIEWED BY: H. HIME
 DRAWN BY: B. WOOD

H&S HIME PROFESSIONAL SURVEYING SERVICES
 PHONE: 870-972-1288
 FAX: 870-972-1011
 E-MAIL: h&shime_butch@yahoo.com

POB NO. 353
 BROOKLAND, ARKANSAS 72417



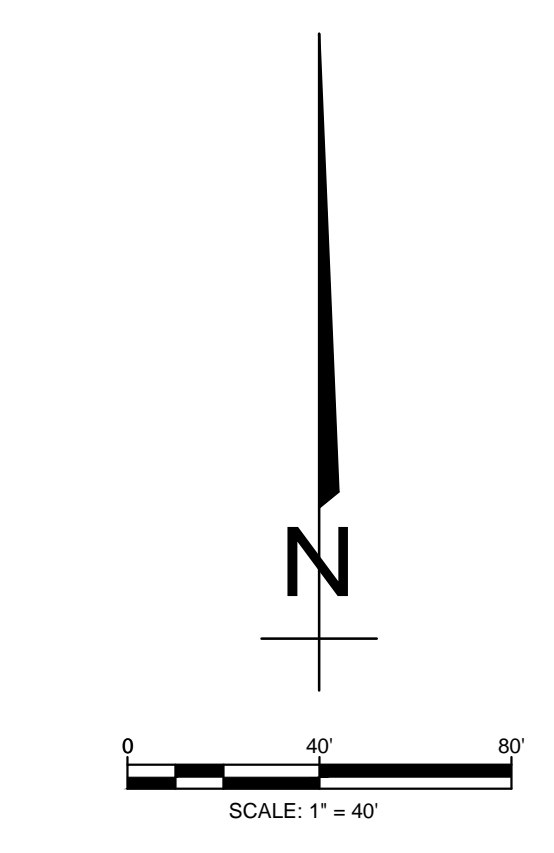
STR-1



BRIDGER PARK PHASE I

JONESBORO, AR

TOPOGRAPHY &
DRAINAGE PLAN



LEGEND	
	CURB
	EXISTING CONTOUR
	PROPOSED CONTOUR
	STORM DRAIN INLET
	STORM DRAIN PIPE
	BENCHMARK

PIPE NOTE:
ALL PIPE SHALL MEET THE FOLLOWING STANDARDS.

- ALUMINIZED STEEL TYPE 2 STEEL PIPE
 - ASTM A-929
 - ASTM A-760
- RCP CLASS III OR CLASS IV
 - ASTM C-76
 - ASTM C-508
 - ASTM C-507

NOTE:
DEVELOPER SHALL OBTAIN GRADING PERMIT FROM THE CITY OF JONESBORO ENGINEERING DEPARTMENT PRIOR TO COMMENCING EARTHWORK AND/OR CLEARING OPERATIONS.
DEVELOPER SHALL OBTAIN REQUIRED ADEQ PERMIT PRIOR TO COMMENCING WORK ON THE SITE. PREPARE A SWPP PLAN, AND DISPLAY THEM FOR PUBLIC ACCESS AT THE SITE.

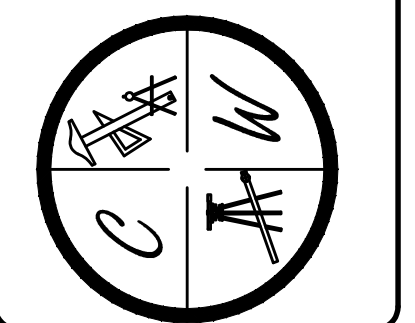
SURVEY CONTROL REFERENCE MARKS:

- JONESBORO MONUMENT # 89
- JONESBORO MONUMENT # 43

VERTICAL CONTROL IS NAVD 88
HORIZONTAL CONTROL IS NAD 83

DATE: 4/5/16
REV:
DRAWN BY: BGW

CARLOS WOOD, P.E.
ENGINEERING CONSULTANT
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BONO, AR 72416
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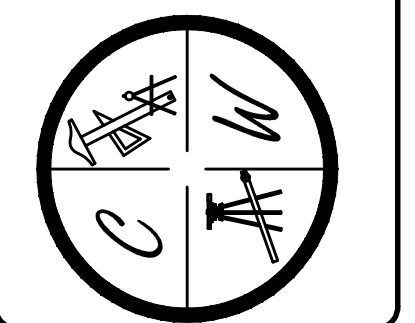


BRIDGER PARK PHASE I

ORIOLE COURT & BRIDGER PARK COURT
JONESBORO, AR
PLAN & PROFILE

DATE: 4/18/16
REV:
DRAWN BY: BGW

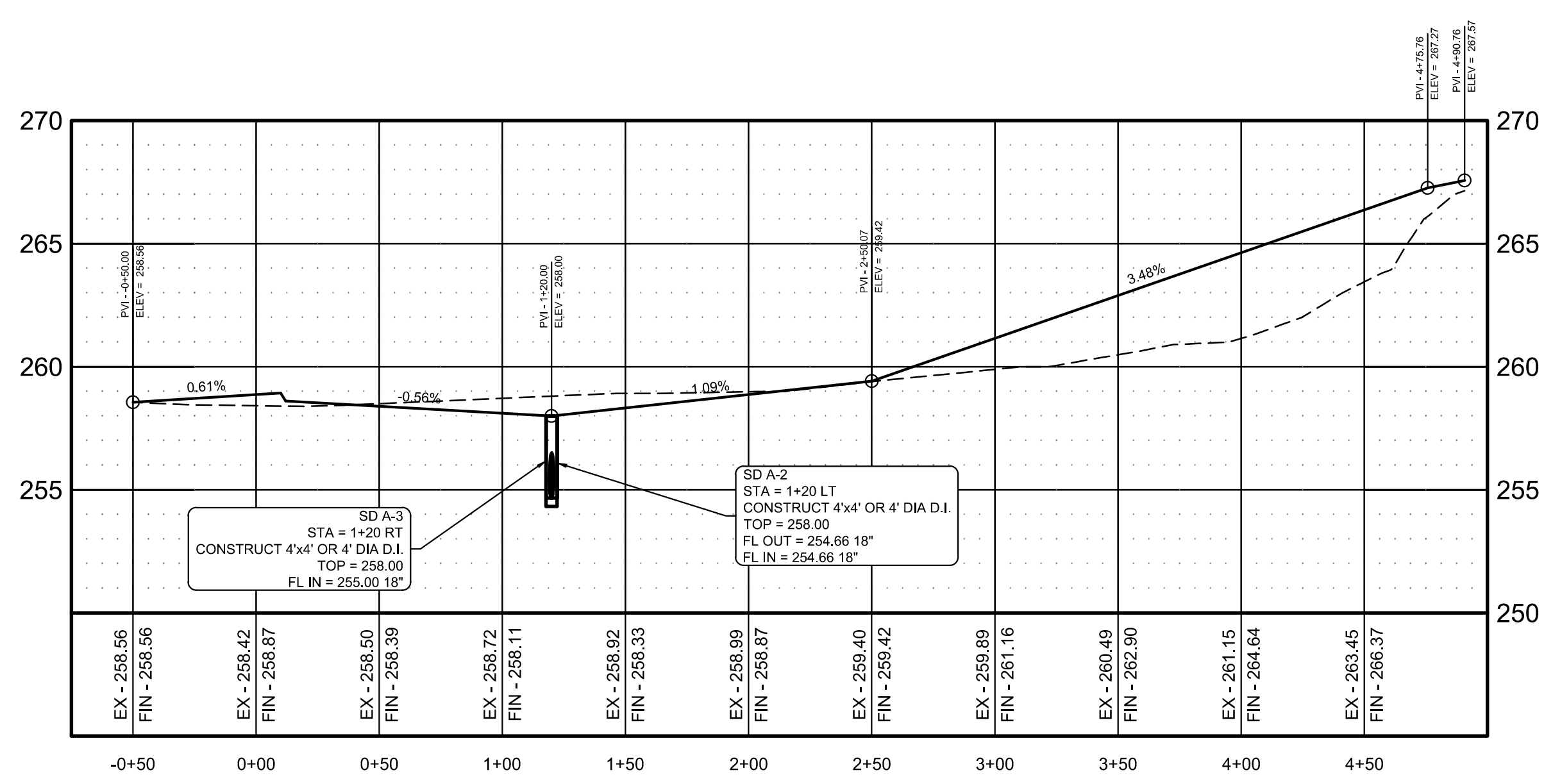
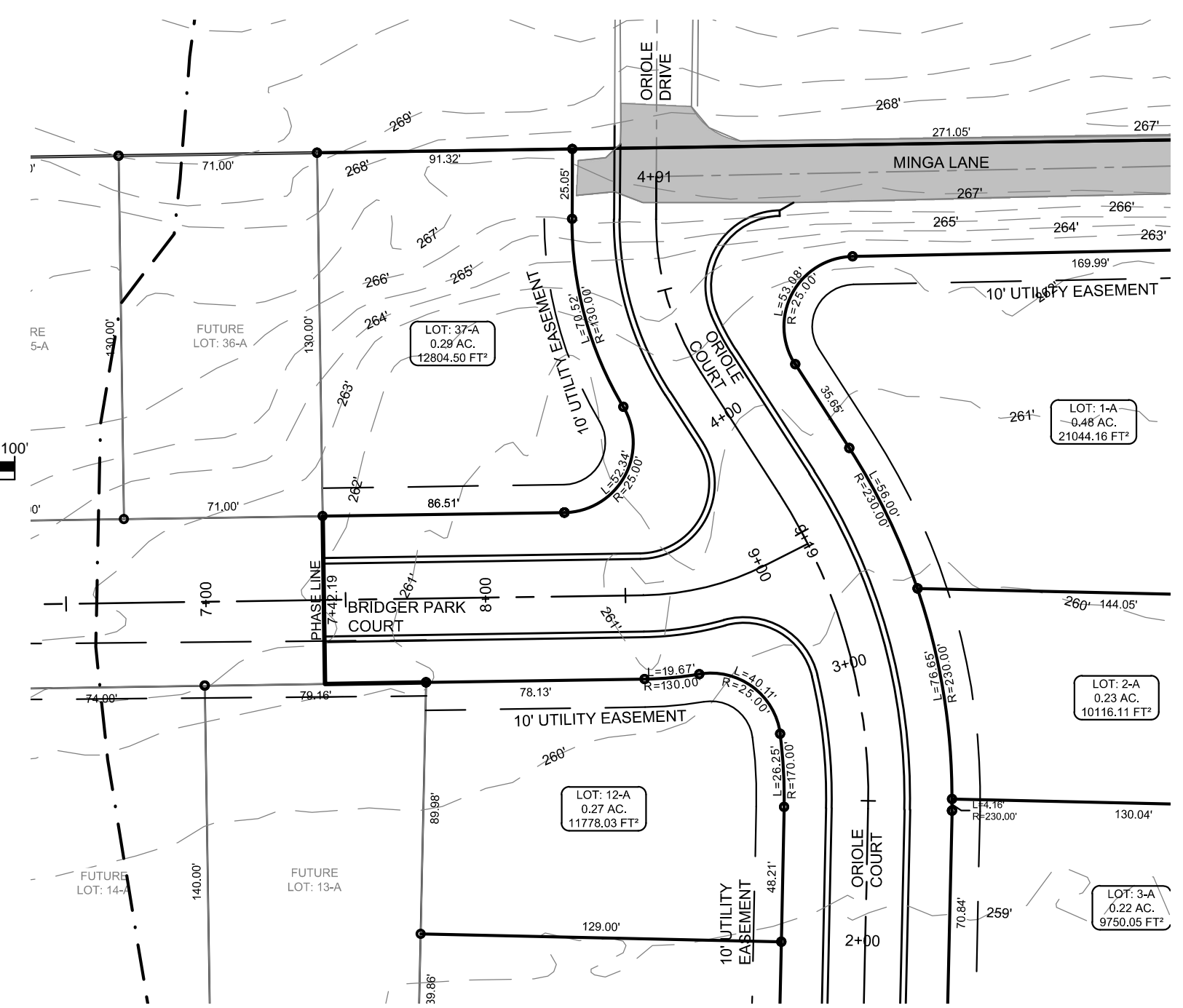
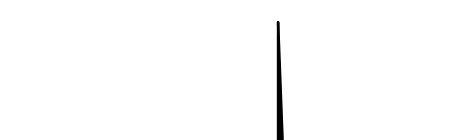
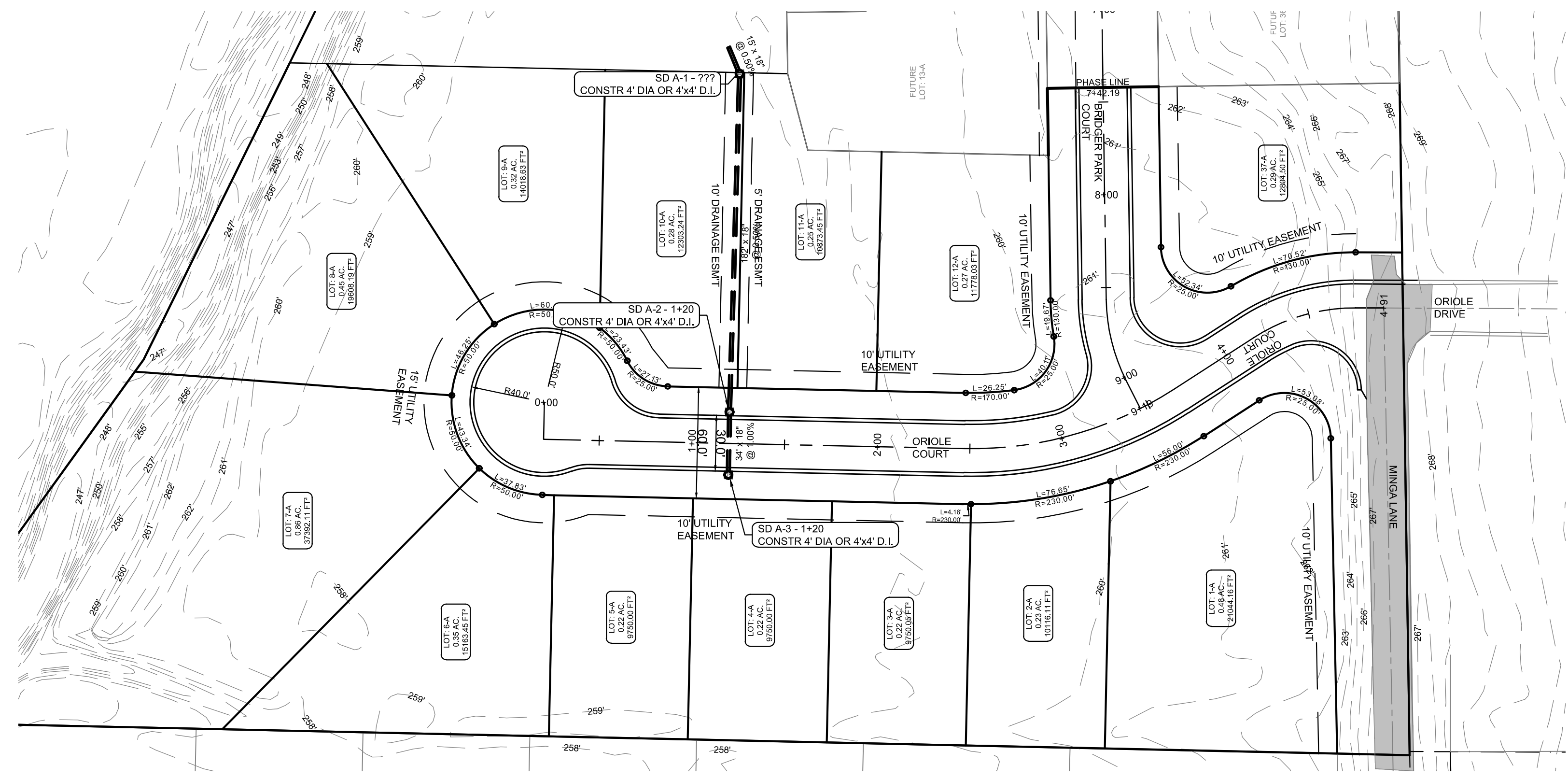
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LEGEND	
	CURB
	EXISTING CONTOUR
	PROPOSED CONTOUR
	STORM DRAIN INLET
	STORM DRAIN PIPE

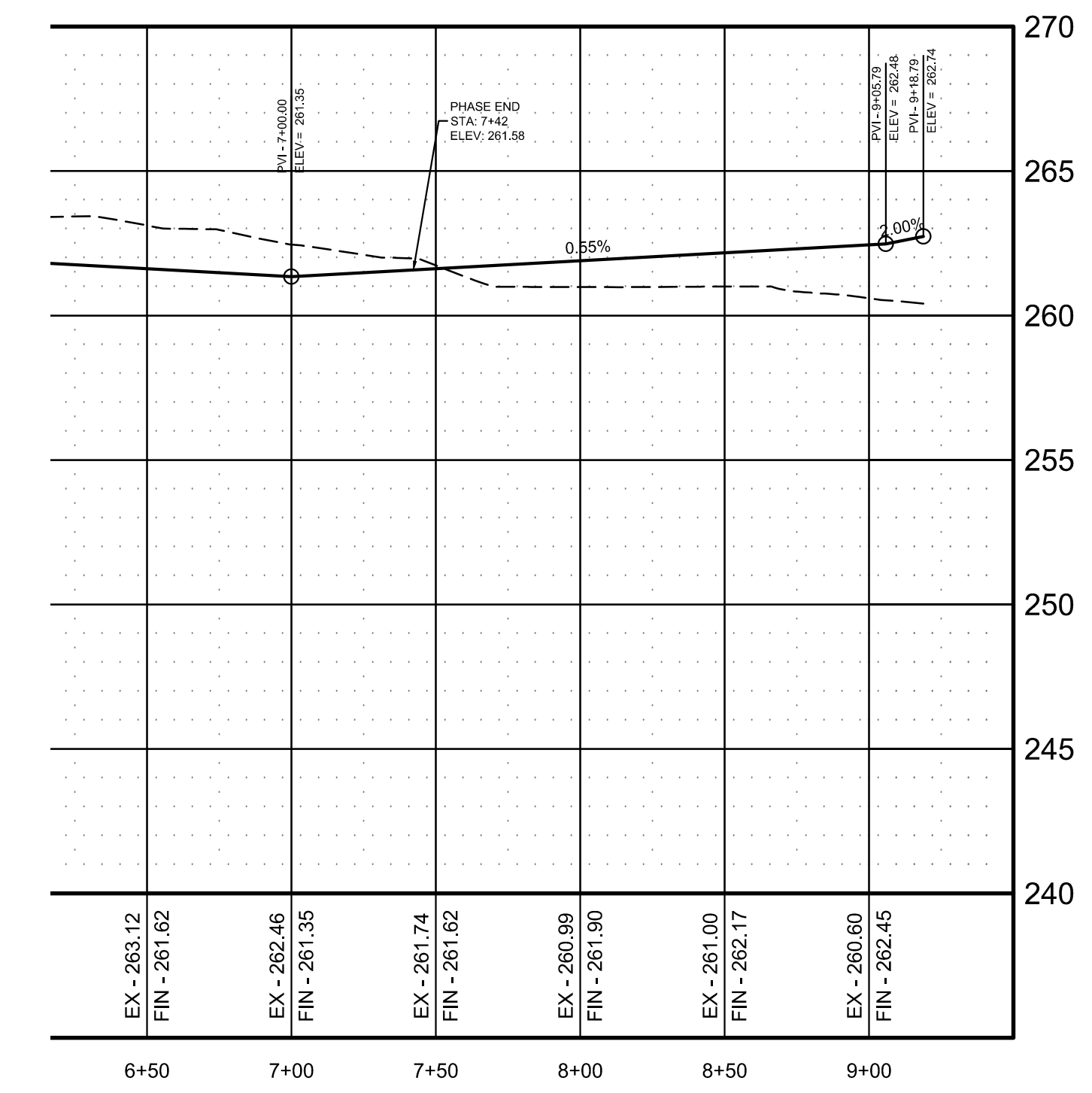
PIPE NOTE:
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 - ASTM A-929
 - ASTM A-760
- RCP CLASS III OR CLASS IV
 - ASTM C-76
 - ASTM C-506
 - ASTM C-507

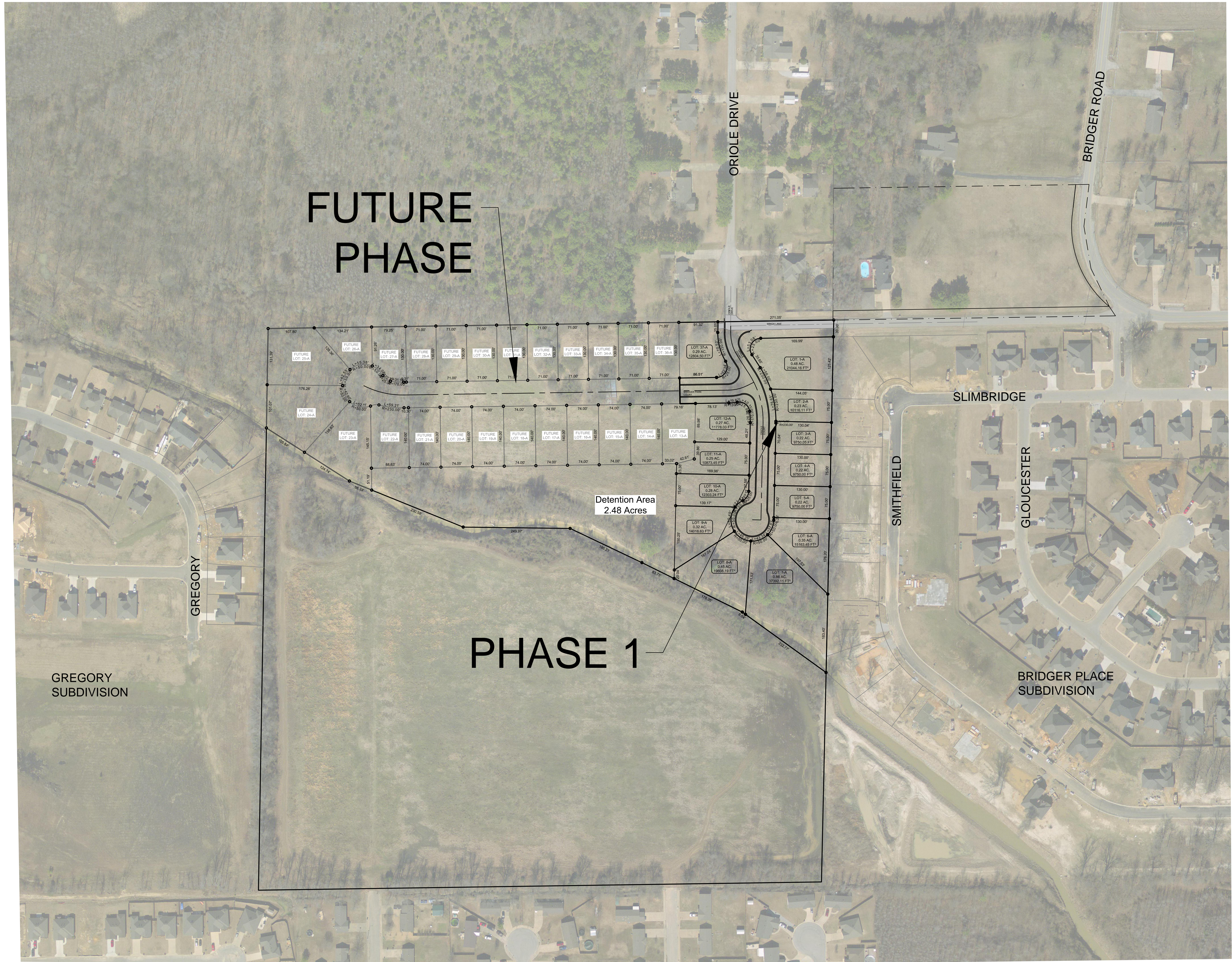


ORIOLE COURT

PROFILE SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



BRIDGER PARK COURT



**FUTURE
PHASE**

PHASE 1

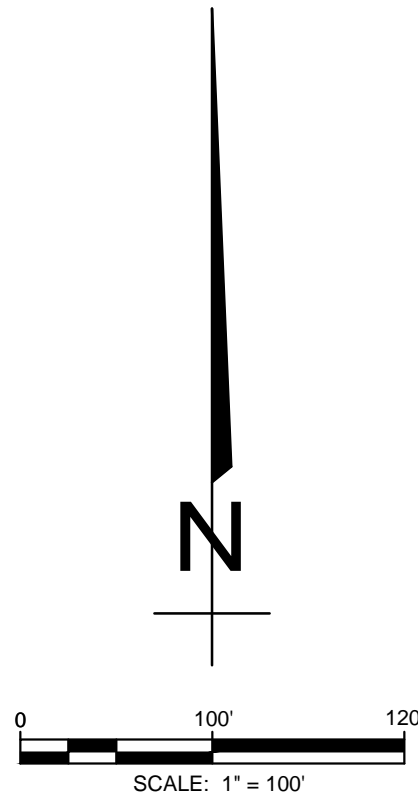
Detention Area
2.48 Acres

OVR



BRIDGER PARK PHASE I
JONESBORO, AR

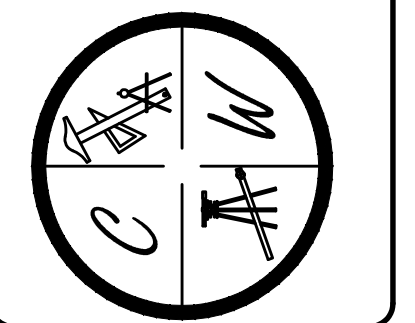
OVERALL MAP



DATE: 4/16/16
REV:

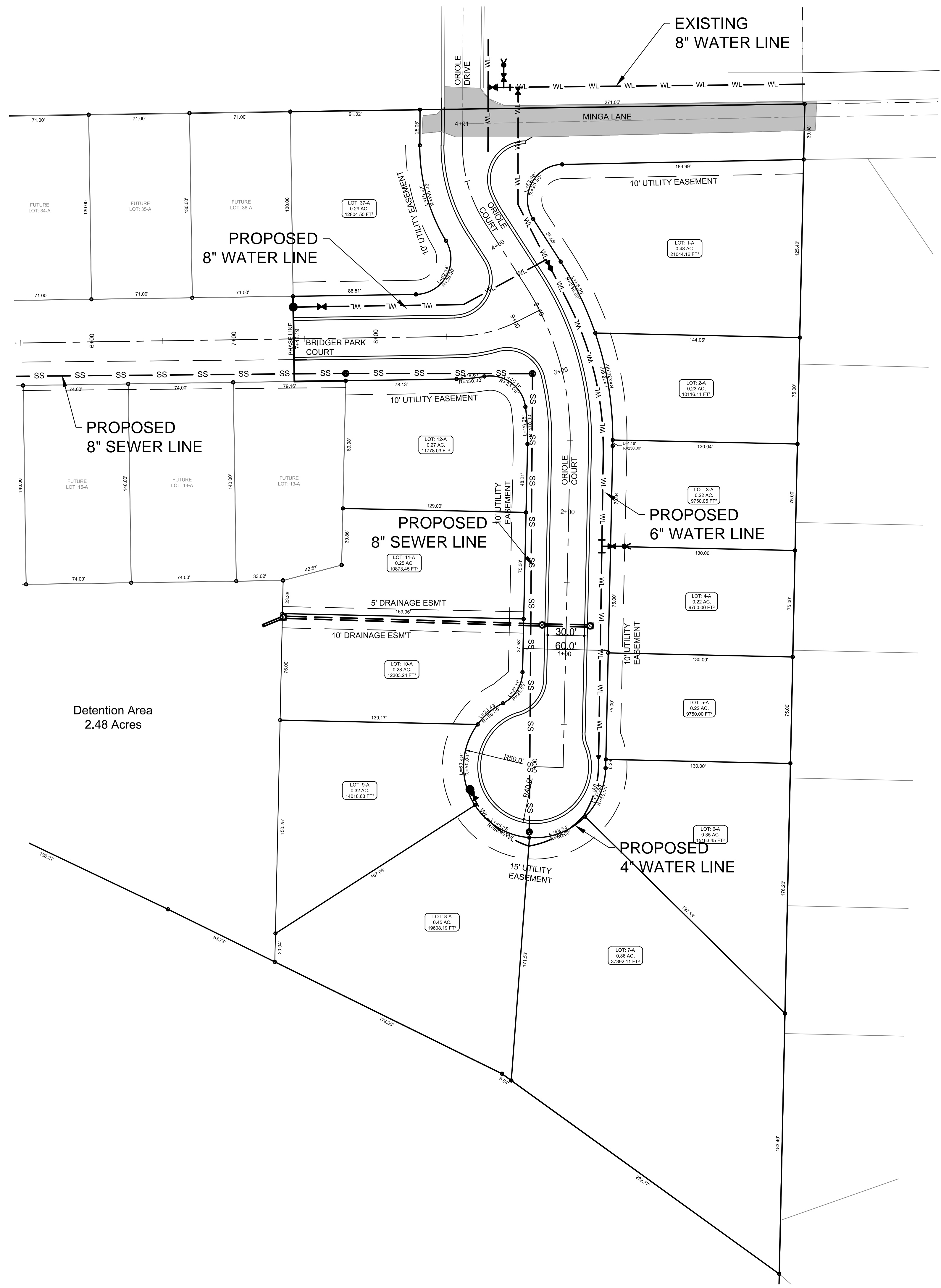
DRAWN BY: BGW

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GREGORY
SUBDIVISION

BRIDGER PLACE
SUBDIVISION



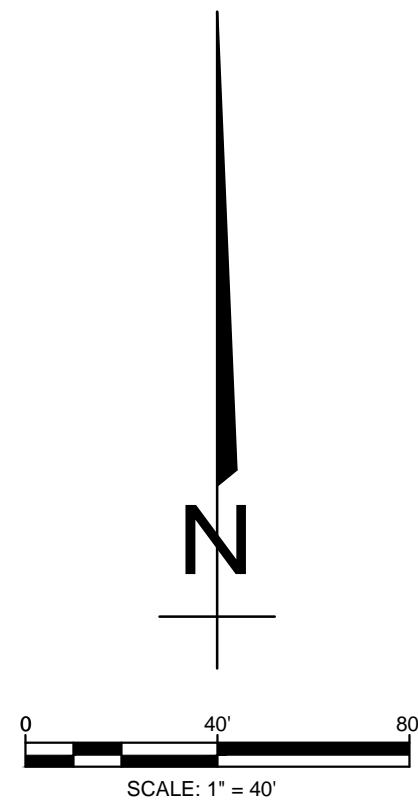
UTIL-1



BRIDGER PARK PHASE I

JONESBORO, AR

UTILITY LAYOUT



LEGEND	
	CURB
	WATER LINE
	SEWER LINE
	SEWER MANHOLE
	STORM DRAIN INLET
	STORM DRAIN PIPE

PIPE NOTE:
 ALL PIPE SHALL MEET THE FOLLOWING STANDARDS.

- ALUMINIZED STEEL TYPE 2 STEEL PIPE
 - ASTM A-929
 - ASTM A-760
- RCP CLASS III OR CLASS IV
 - ASTM C-76
 - ASTM C-506
 - ASTM C-507

NOTE:
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 DEVELOPER SHALL OBTAIN REQUIRED ADEQ PERMIT PRIOR TO COMMENCING WORK ON THE SITE. PREPARE A SWPP PLAN, AND DISPLAY THEM FOR PUBLIC ACCESS AT THE SITE.

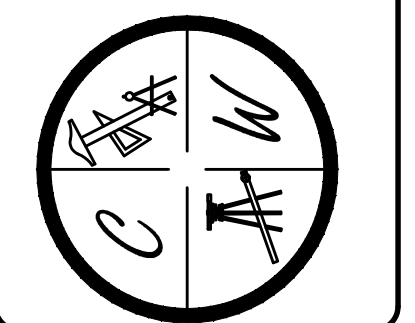
SURVEY CONTROL REFERENCE MARKS:

- JONESBORO MONUMENT # 89
- JONESBORO MONUMENT # 43

VERTICAL CONTROL IS NAVD 88
 HORIZONTAL CONTROL IS NAD 83

DATE: 4/26/16
 REV:
 DRAWN BY: BGW

CARLOS WOOD, P.E.
 ENGINEERING CONSULTANT
 148 CR 375
 BONO, AR 72416
 PHONE/FAX: (870) 972-8335
 EMAIL: WOODENR@SBCGLOBAL.NET
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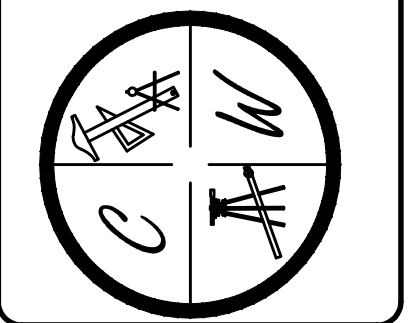
BRIDGER PARK PHASE I

JONESBORO, AR

SEDIMENT & EROSION CONTROL MAP

DATE: 4/26/16
 REV:
 DRAWN BY: BGW

CARLOS WOOD, P.E.
 ENGINEERING CONSULTANT
 148 CR 375
 BONO, AR 72416
 PHONE/FAX: (870) 972-9335
 EMAIL: WOODENGR@SBCGLOBAL.NET
 WEBSITE: WWW.WOODENGR.COM



OWNER / CONTRACTOR CERTIFICATION:
 I certify under penalty of law that I understand the terms and conditions of the General National Pollutant Discharge Elimination System (NPDES) Permit that authorizes the storm water discharges associated with the industrial activity from the construction site identified as part of this certification.

OWNER _____ DATE _____
 CONTRACTOR _____ DATE _____

PROFESSIONAL PLAN CERTIFICATION:
 I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that all qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

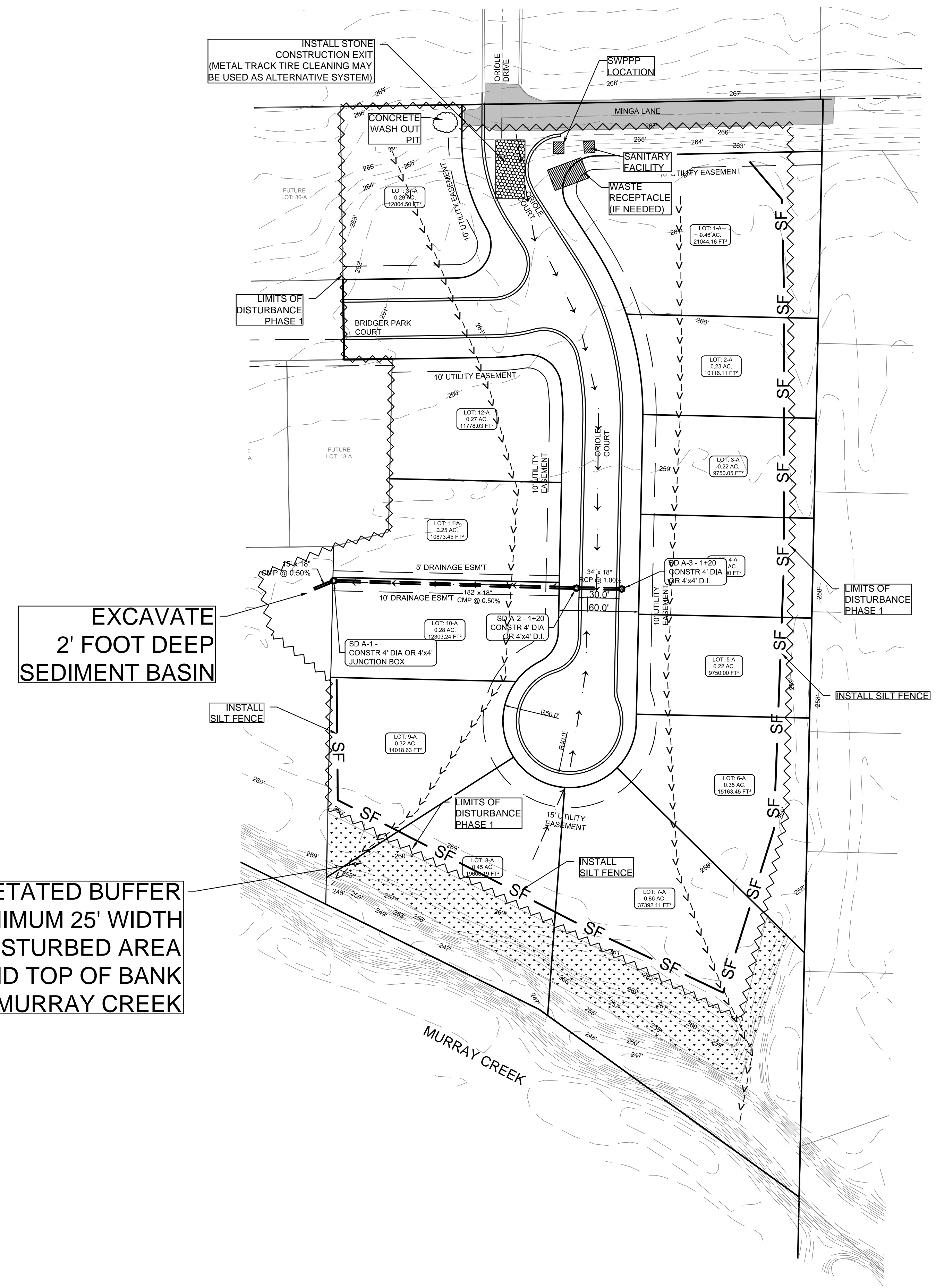
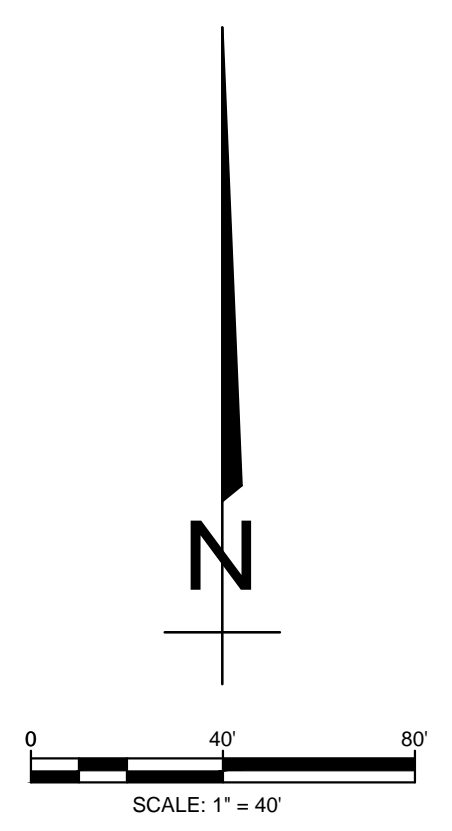
PRINTED NAME: _____ PRINTED TITLE: _____
 SIGNATURE: _____ DATE: _____

LEGEND

	EXISTING DRAINAGE FLOW PATH
	PROPOSED DRAINAGE FLOW PATH
	CURB
	EXISTING CONTOUR
	PROPOSED CONTOUR
	STORM DRAIN INLET
	STORM DRAIN PIPE
	BENCHMARK

NOTE:
 DEVELOPER SHALL OBTAIN REQUIRED ADEQ PERMIT PRIOR TO COMMENCING WORK ON THE SITE, PREPARE A SWPP PLAN, AND DISPLAY THEM FOR PUBLIC ACCESS AT THE SITE.

- NOTES:**
- THIS DRAWING REPRESENTS THE SCHEMATIC MAP OF THE LOCATION AND TYPE OF THE MINIMUM EROSION CONTROL MEASURES ANTICIPATED FOR THIS SITE AND SHALL BE CONSIDERED A PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE CITY OF JONESBORO AND ADEQ. THIS MAP SHALL BE UPDATED AND MODIFIED PERIODICALLY AS SPECIFIED IN THE SWPPP PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF ARKANSAS NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT).
 - THE OWNER SHALL BE RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT TO THE CITY OF JONESBORO ENGINEERING DEPARTMENT AND ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AS REQUIRED BY THE GENERAL NPDES PERMIT REGULATIONS AND OBTAINING THE REQUIRED PERMIT FROM ADEQ.
 - CONTRACTOR OR OWNER'S DESIGNATED REPRESENTATIVE SHALL INSTALL, INSPECT, MAINTAIN, REPAIR, AND MODIFY ALL EROSION CONTROL MEASURES AND SWPPP PLAN IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS TO KEEP THEM IN GOOD WORKING CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. FAILURE TO MAINTAIN COMPLIANCE MAY RESULT IN THE DENIAL OF BUILDING AND CONSTRUCTION INSPECTIONS UNTIL CORRECTIONS HAVE BEEN MADE. CONTRACTOR OR OWNER'S DESIGNATED REPRESENTATIVE SHALL MAINTAIN A CONTINUOUS UPDATED SWPPP PLAN AND MAP ON SITE (IN A CONTAINER MARKED AS SUCH TO IDENTIFY THE PLAN) AT THE SITE ENTRANCE IN A PUBLIC ACCESSIBLE LOCATION FOR REVIEW AND INSPECTION BY THE APPROPRIATE INSPECTORS.
 - SILT FENCE & OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED (AS SHOWN ON THE MAP) TO PREVENT MIGRATION OF SEDIMENT TO ADJACENT PROPERTIES & ALONG TOP OF DITCH BANK TO ENSURE THAT THE EXISTING DITCHES ARE NOT CONTAMINATED WITH SEDIMENT DURING CONSTRUCTION. ADDITIONAL LOCATIONS MAY BE NECESSARY AS CONSTRUCTION PROGRESSES. AREAS DISTURBED BY CONSTRUCTION SHALL BE TEMPORARILY SEEDED IN AREAS WHERE CONSTRUCTION CEASES FOR 14 DAYS AND PERMANENT SEEDED SHOULD BE INITIATED IMMEDIATELY (WEATHER PERMITTING) AT THE COMPLETION OF GRADING IN AREAS THAT CONSTRUCTION IS COMPLETED. THE LOCAL SOIL CONSERVATION SERVICE CAN BE CONTACTED FOR ASSISTANCE.
 - CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION EXIT (PRIOR TO CONSTRUCTION) AT THE LOCATIONS CONSTRUCTION VEHICLES LEAVE THE SITE TO PREVENT DUST AND MUD TRACKING ONTO STREETS. CONTRACTOR SHALL CLEAN ALL TRACKING MATERIALS FROM STREETS AS FREQUENTLY AS NECESSARY TO MAINTAIN CLEAN STREETS AND AT A MINIMUM OF THE END OF THE DAY.
 - AN INSPECTION SHALL BE MADE WEEKLY. ALL OBSERVED DEFICIENCIES OF THE BEST MANAGEMENT PRACTICES (BMPs) WILL BE RECORDED AND REPAIRED AS SOON AS POSSIBLE.
 - SEDIMENT SHALL BE REMOVED FROM ALL EROSION CONTROL DEVICES WHEN SEDIMENT REACHES 50% OF THE DEVICE CAPACITY.
 - A SOLID WASTE CONTAINER SHALL BE PROVIDED FOR SOLID WASTE REMOVAL AS NEEDED. LOCATION TO BE SHOWN ON THE MAP AFTER INSTALLATION.
 - A TEMPORARY SANITARY SEWER CONTAINER SHALL BE PROVIDED AS NEEDED. LOCATION TO BE SHOWN ON THE MAP AFTER INSTALLATION.
 - A CONCRETE WASTE PIT SHALL BE PROVIDED AS NEEDED DURING THE CONSTRUCTION OF THE SITE. LOCATION TO BE SHOWN ON THE MAP AFTER INSTALLATION.
 - TOTAL AREA IS 5.60 ACRES, TOTAL DISTURBED IS 4.5 ACRES.
 - REFER TO SWPPP DOCUMENTS FOR SEDIMENT & EROSION CONTROL DETAILS.



EXCAVATE 2' FOOT DEEP SEDIMENT BASIN

EXISTING VEGETATED BUFFER OF MINIMUM 25' WIDTH BETWEEN DISTURBED AREA AND TOP OF BANK OF MURRAY CREEK

INSTALL STONE CONSTRUCTION EXIT (METAL TRACK TIRE CLEANING MAY BE USED AS ALTERNATIVE SYSTEM)

SWPPP LOCATION

SANITARY FACILITY

WASTE RECEPTACLE (IF NEEDED)

LIMITS OF DISTURBANCE PHASE 1

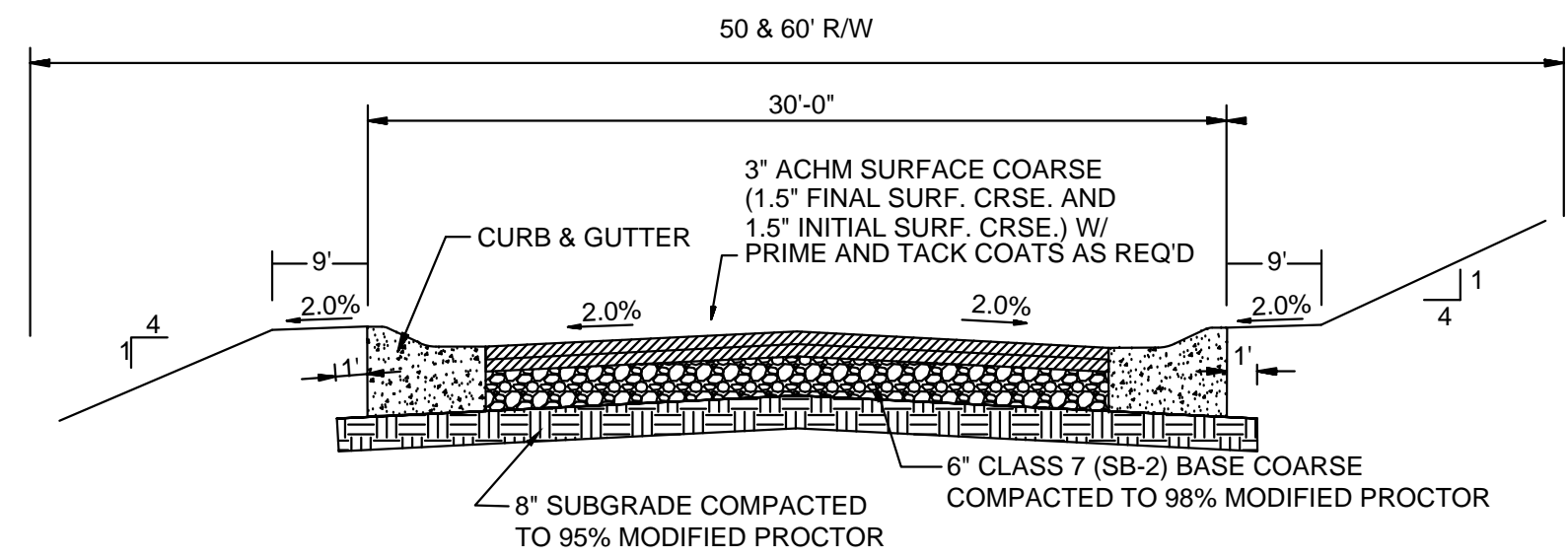
LIMITS OF DISTURBANCE PHASE 1

INSTALL SILT FENCE

INSTALL SILT FENCE

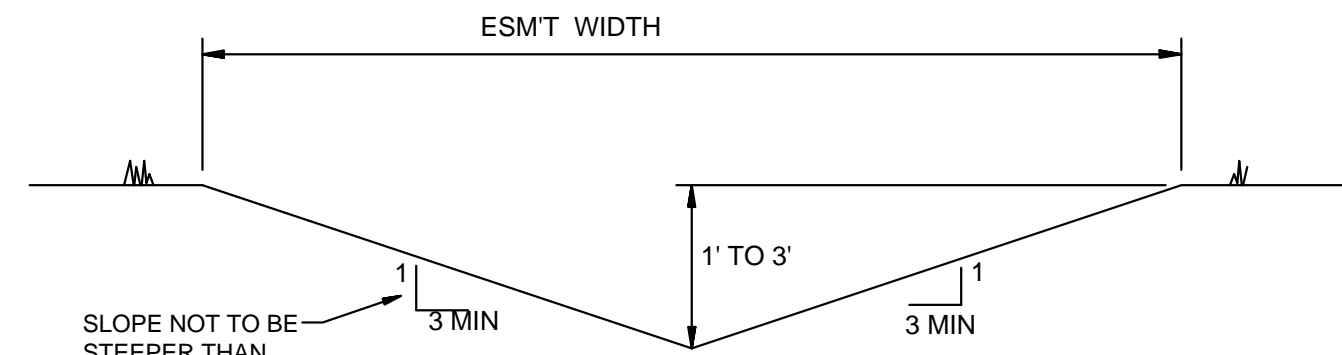
INSTALL SILT FENCE

MURRAY CREEK



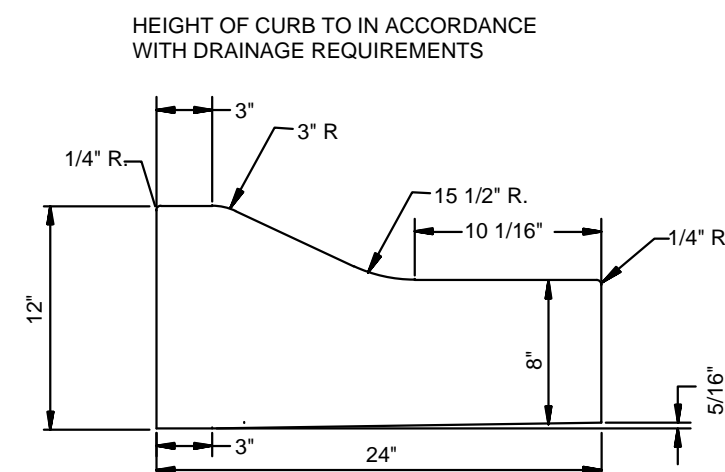
TYPICAL SECTION - INTERIOR STREETS

N.T.S.



'A' TYPICAL DITCH DETAIL

N.T.S.

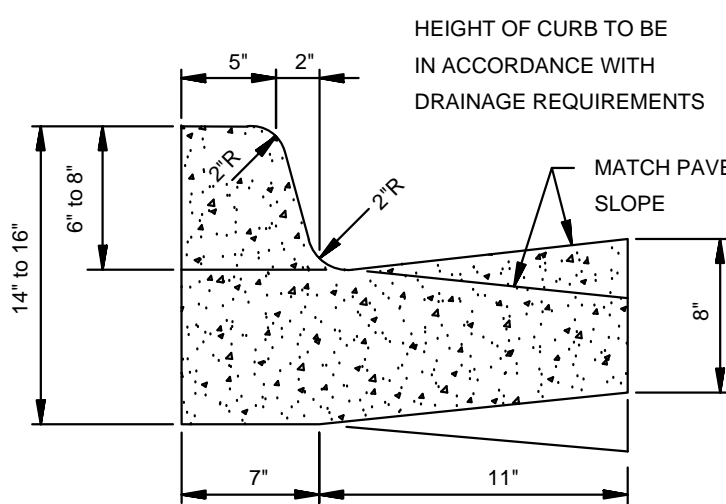


TYPE 'B' CURB & GUTTER

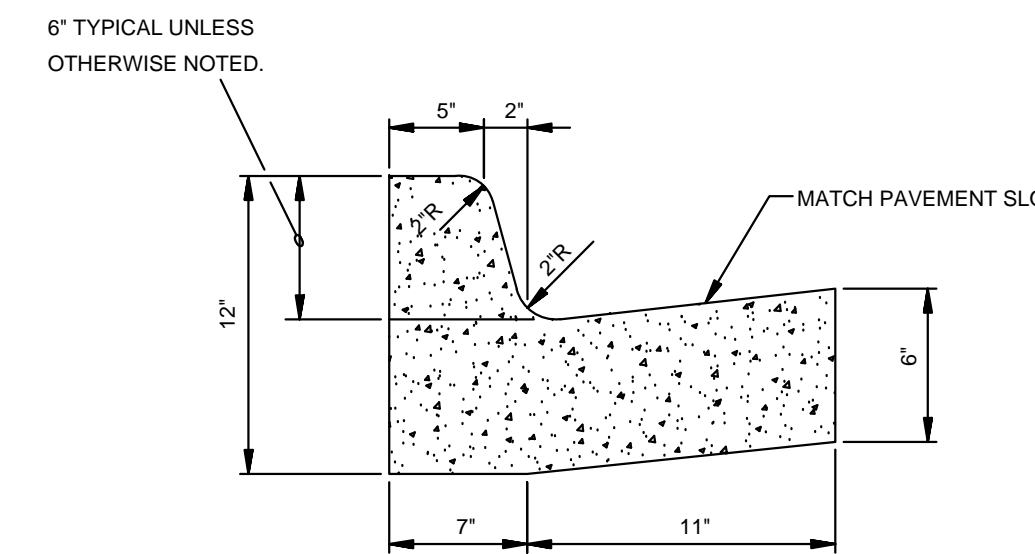
N.T.S.

NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF JONESBORO SPECIFICATIONS

NO DRIVEWAY CUTS ALLOWED WITH THIS TYPE OF CURB



TYPE 'A-18' (BARRIER) ARTERIAL STREETS

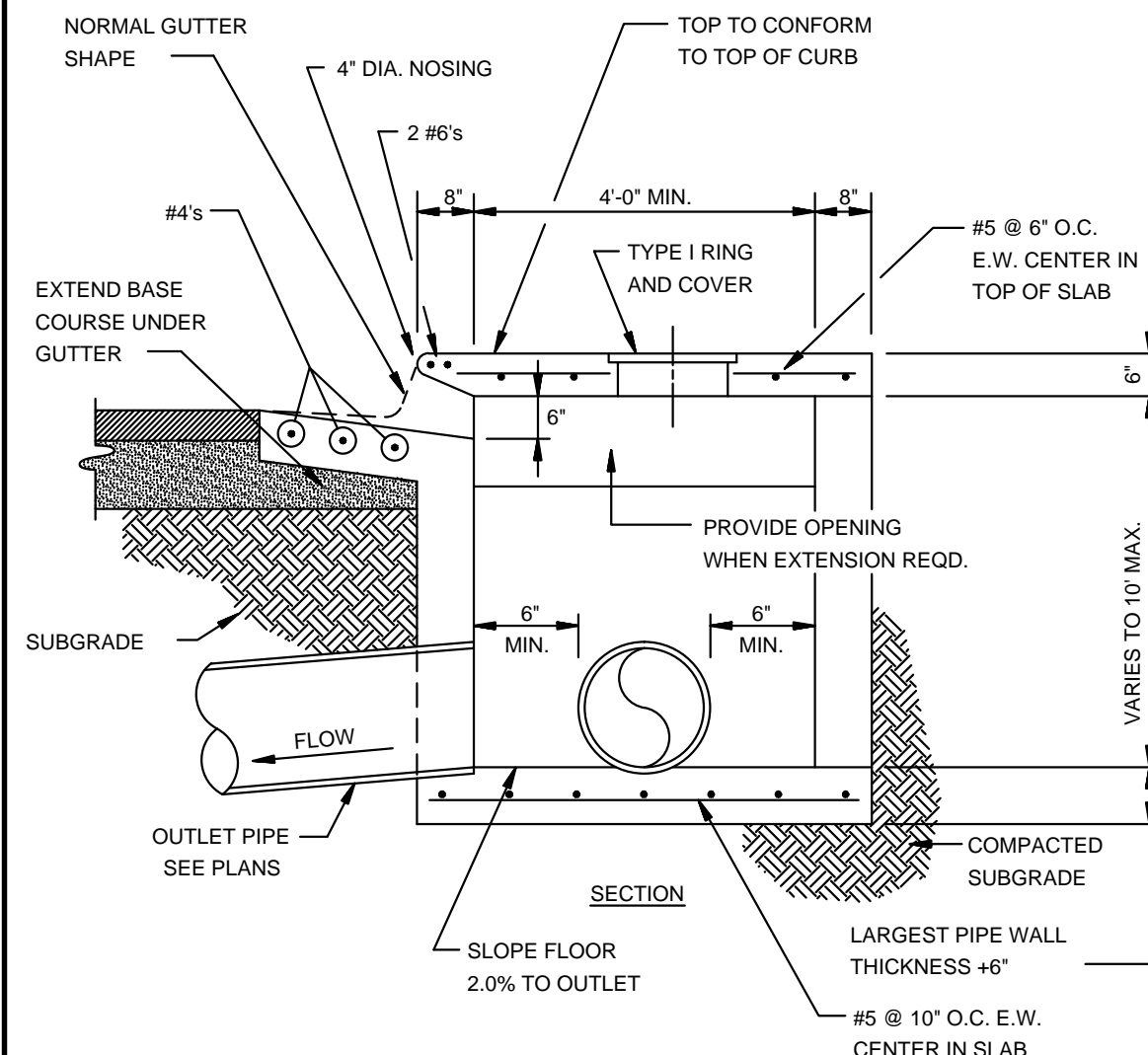


TYPE 'A-18' (BARRIER) RESIDENTIAL & COLLECTOR STREETS

COMBINATION CURB & GUTTER

N.T.S.

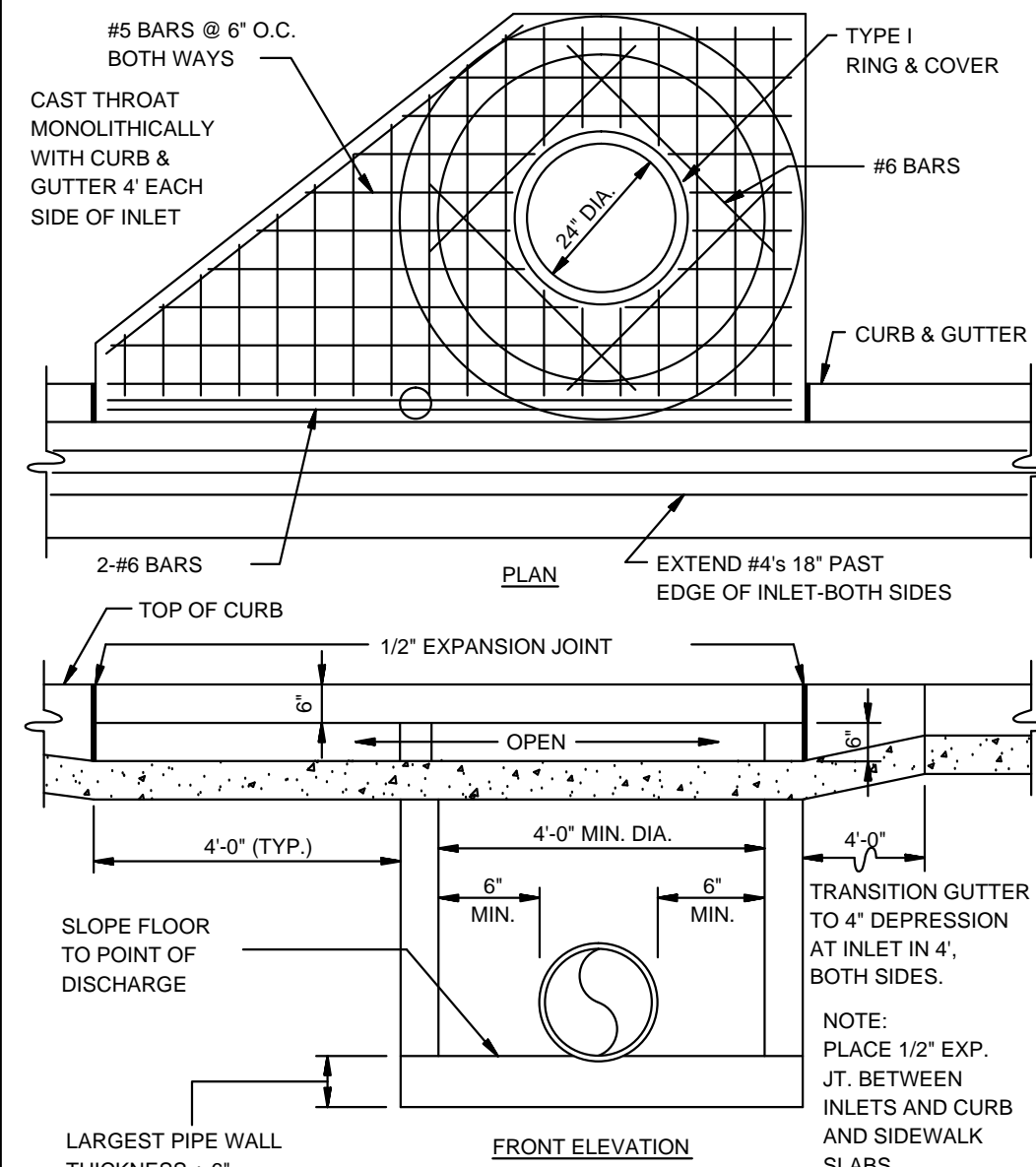
NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.



SECTION - CIRCULAR CURB INLET

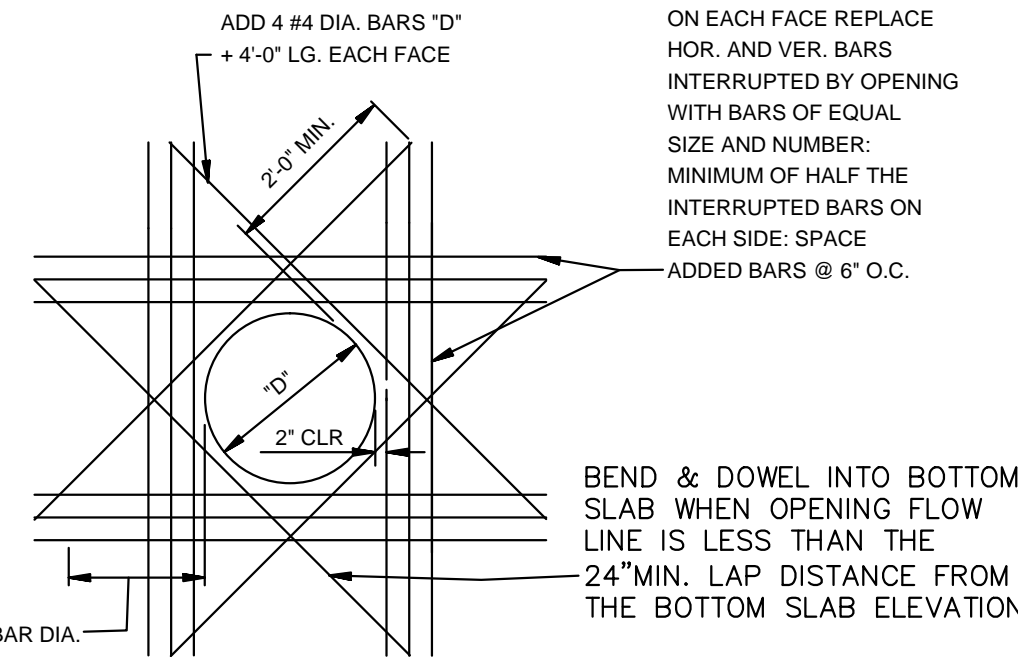
N.T.S.

NOTE: INLETS MORE THAN 3'-0" DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED AT 15" O.C. - MANHOLE FRAME AND COVER SHALL BE PLACED ADJACENT TO THE WALL WITH THE STEPS.



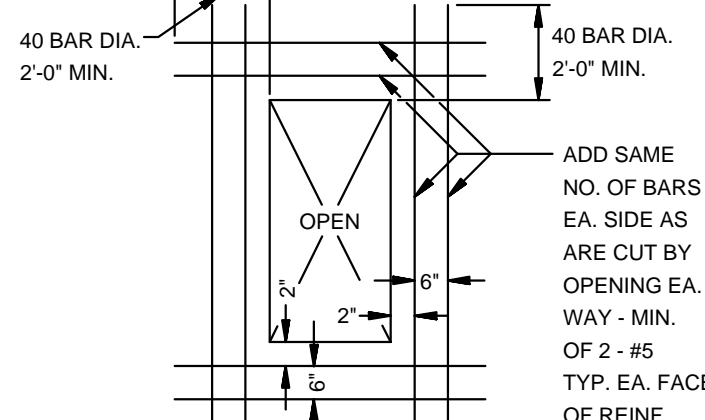
CIRCULAR CURB INLET W/ INLET EXTENSION

N.T.S.



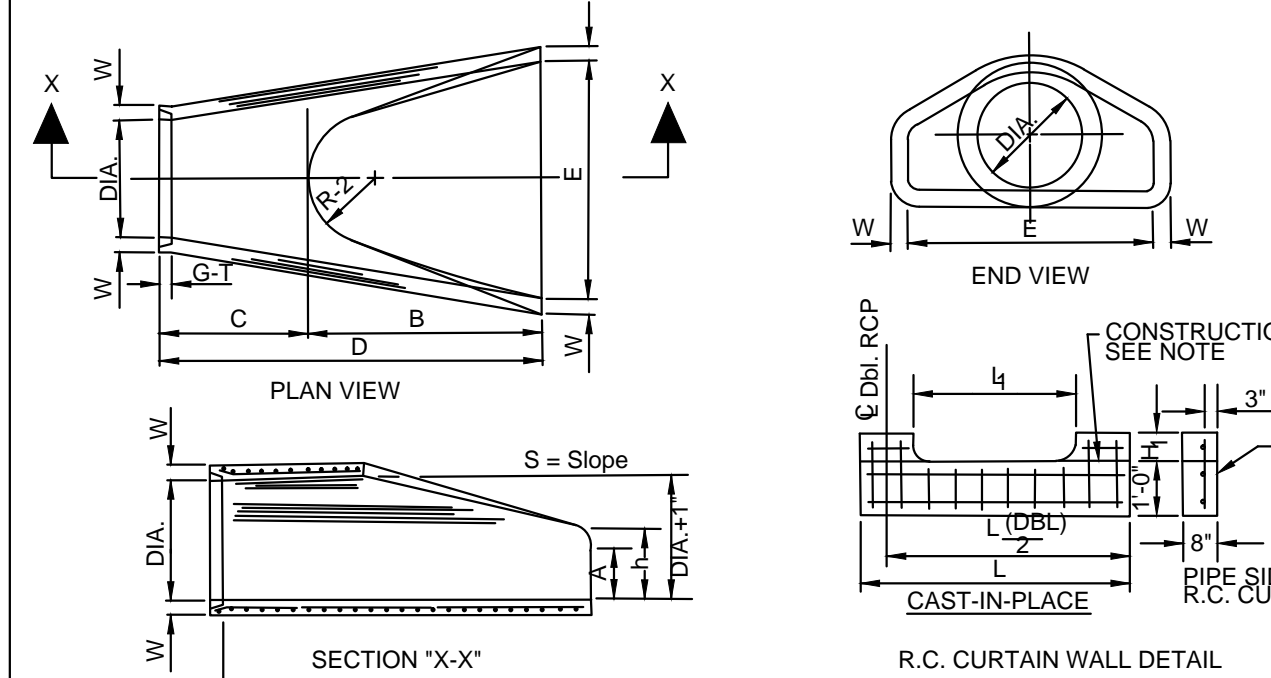
ADDED REINFORCEMENT AT ROUND OPENING IN WALL OR SLAB

N.T.S.



ADDED REINFORCEMENT AT RECTANGULAR OPENING IN WALL OR SLAB

N.T.S.

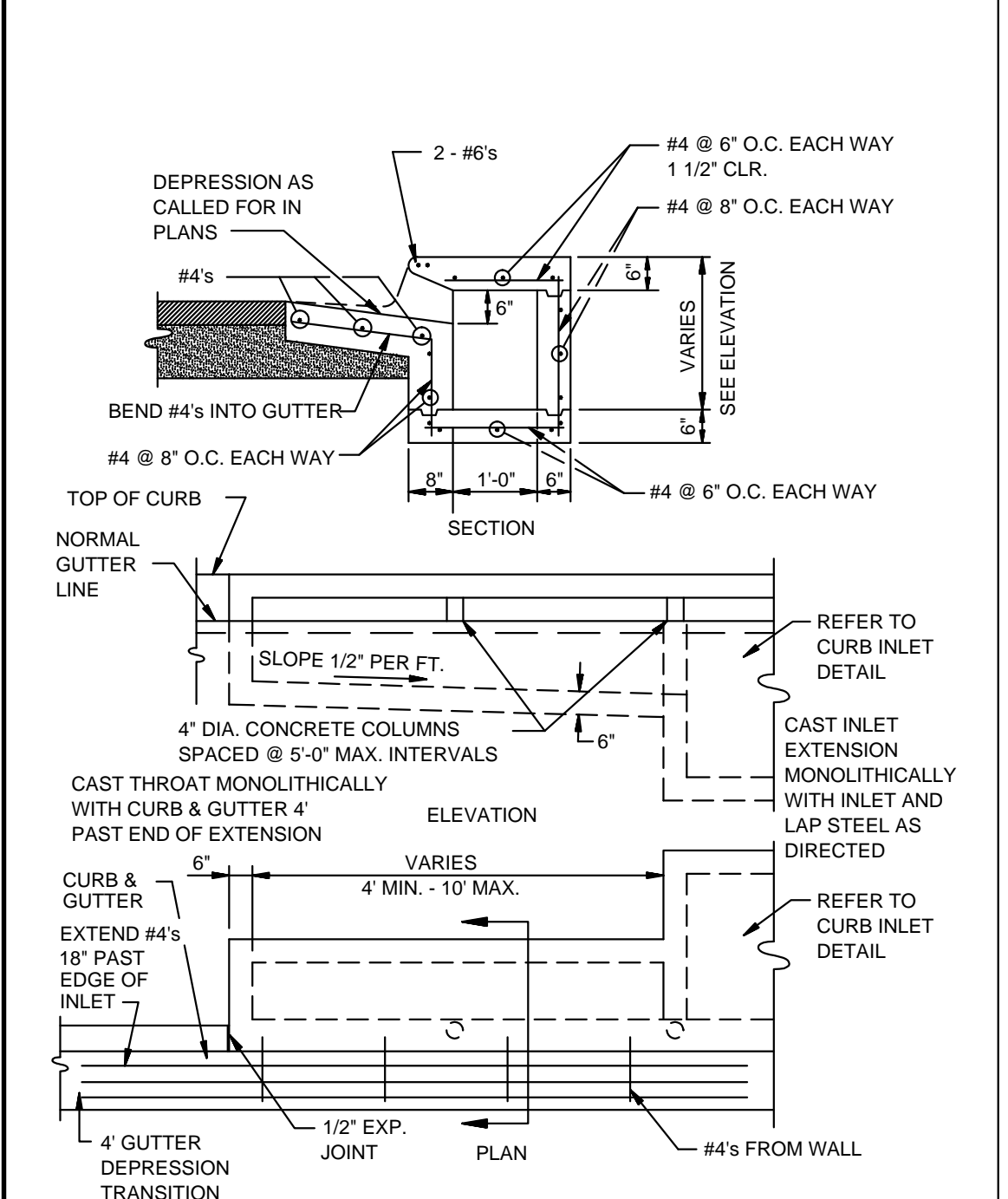


DIA. WALL	TABLE OF DIMENSIONS												
	A	B	C	D	E	S	DIA. #1	P	R1	R2	G1	WT	H
18"	2-1/2"	9"	2-3/4"	3-1/2"	6-1/4"	3-1/4"	16"	29"	15-1/2"	12"	2"	1000	1-3/4"
24"	3-1/2"	9-1/2"	3-7/8"	2-5/8"	6-1-1/2"	4-3/8"	25"	33-3/16"	16-1/8"	14"	2-1/2"	1600	1-3/4"
30"	3-1/2"	1-0"	4-4"	1-7/8"	6-1-3/8"	5-1/8"	30"	37"	18-1/8"	16"	3-1/2"	2100	1-3/4"
36"	4-1/2"	1-3/8"	5-3/8"	2-1-1/8"	8-2-1/8"	6-6-1/8"	37"	47-1/8"	24-1/8"	20"	3-1/2"	2100	1-3/4"
42"	4-1/2"	1-3/8"	5-3/8"	2-1-1/8"	8-2-1/8"	6-6-1/8"	43"	53-7/8"	27-1/8"	22"	3-1/2"	2500	2-2-1/2"
48"	5"	2-2/8"	6-2"	2-2"	8-2"	7-2"	49"	59-1/2"	30-1/2"	22"	3-1/2"	2500	2-2-1/2"
54"	5-1/2"	2-4"	6-6"	1-10"	8-4"	7-6"	55"	65-1/2"	33-1/8"	24"	4"	2750	2-10-1/2"
60"	6"	2-10"	6-6"	1-10"	8-4"	8-0"	61"	71-1/2"	36-1-1/8"	24"	4"	3200	3-5"
72"	7"	3-10"	6-6"	1-10"	8-4"	9-0"	73"	83-1/8"	38-15/16"	24"	5"	3500	4-6"

- NOTES:
- The portion of the R.C. Curtain Wall beneath the Flared End Section (Lower 1'-0") shall be placed monolithically. The Flared End Section shall then be set in place and the remaining portions of the R.C. Curtain Wall placed.
 - All reinforcing steel are #4 Bars at 6" O.C.
 - No separate payment will be made for the Curtain Walls. They shall be considered subsidiary to the Flared End Sections.
 - Tongue End On Upstream Section. Groove End On Downstream Section.

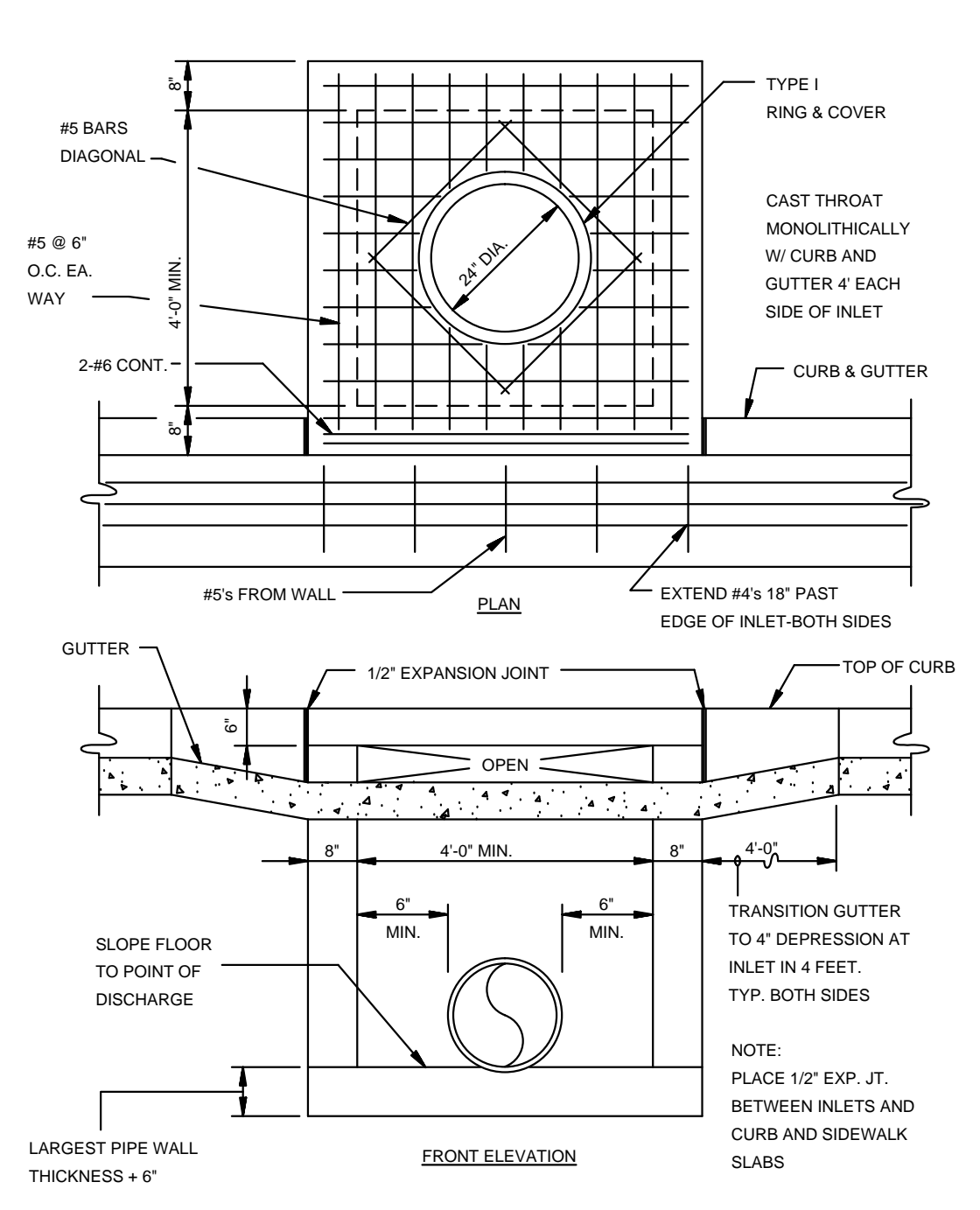
FLARED END SECTION DETAIL FOR REINFORCED CONCRETE PIPE CULVERT

N.T.S.



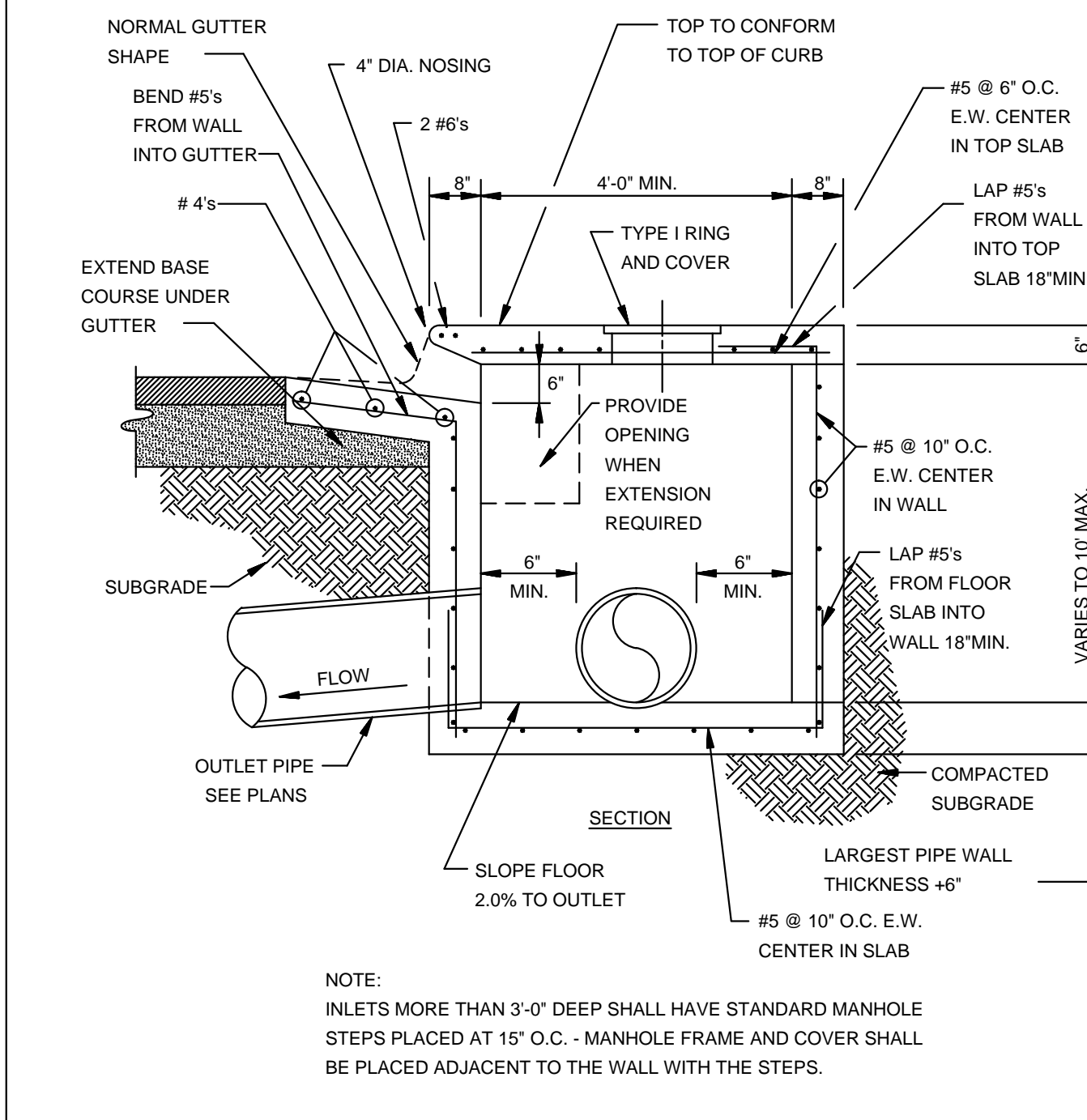
RECTANGULAR CURB INLET EXTENSION

N.T.S.



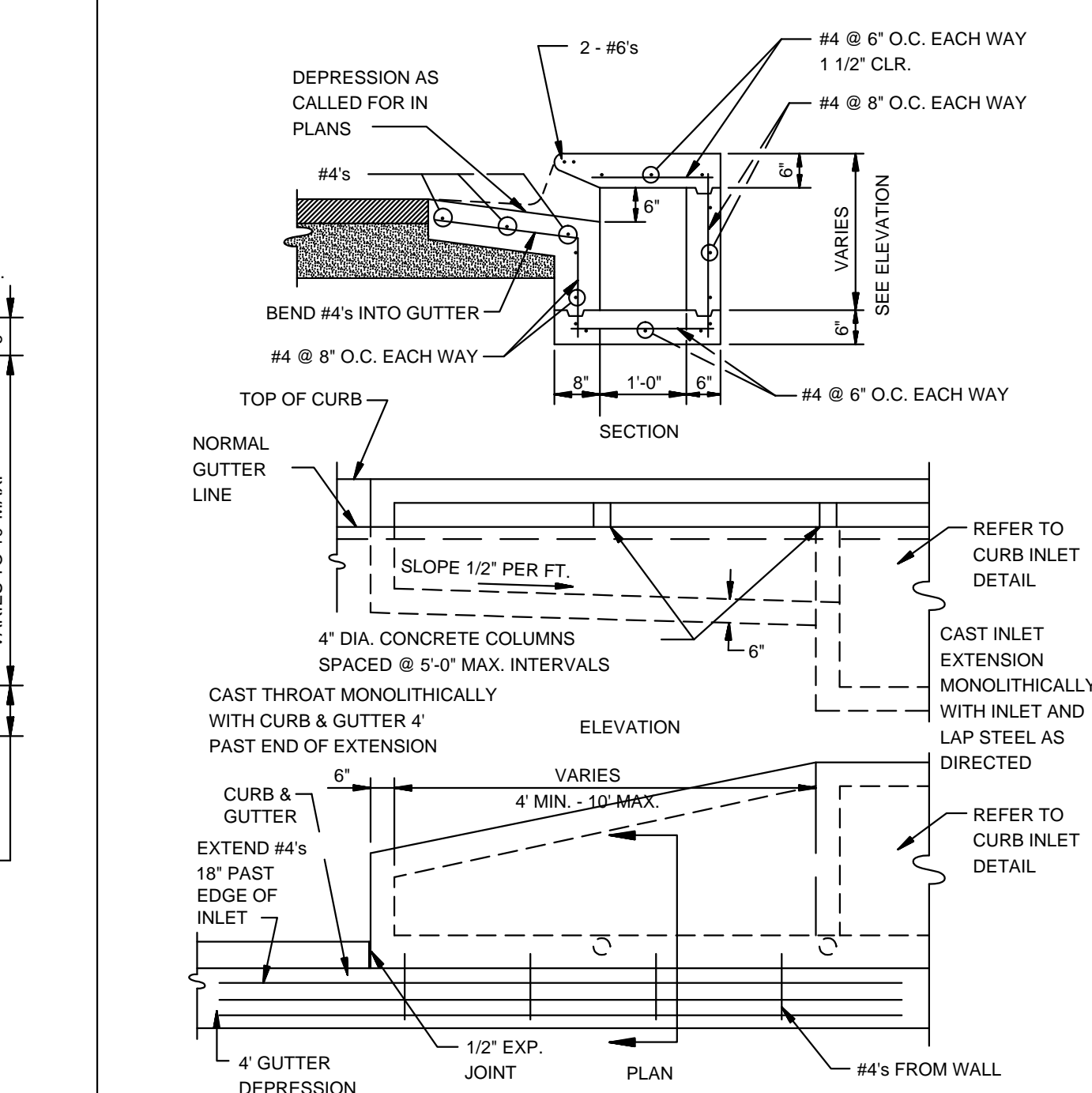
RECTANGULAR CURB INLET

N.T.S.



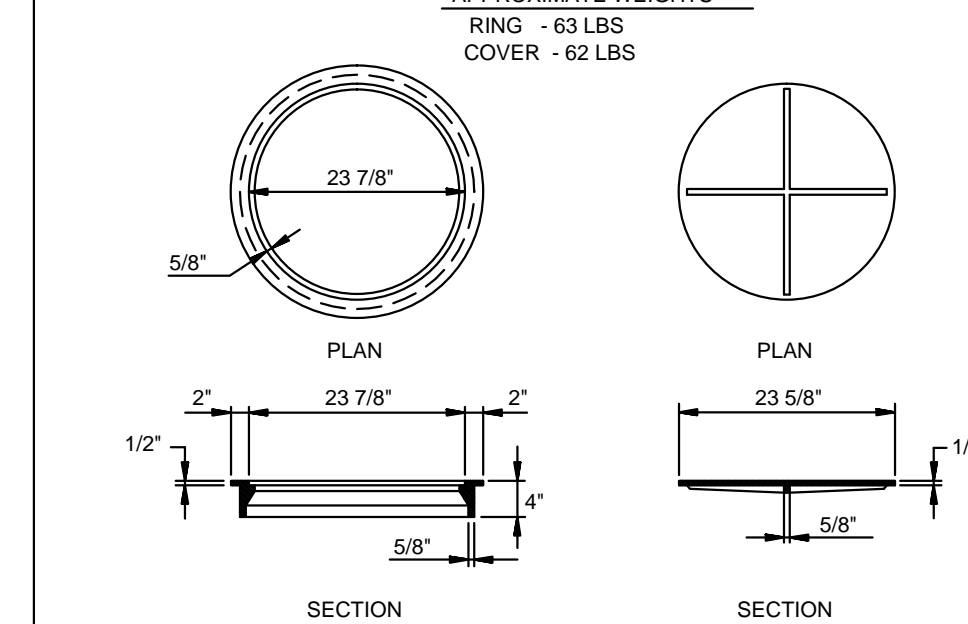
SECTION - TYPICAL CURB INLET - TYPE 'A'

N.T.S.



ALTERNATE CURB INLET EXTENSION

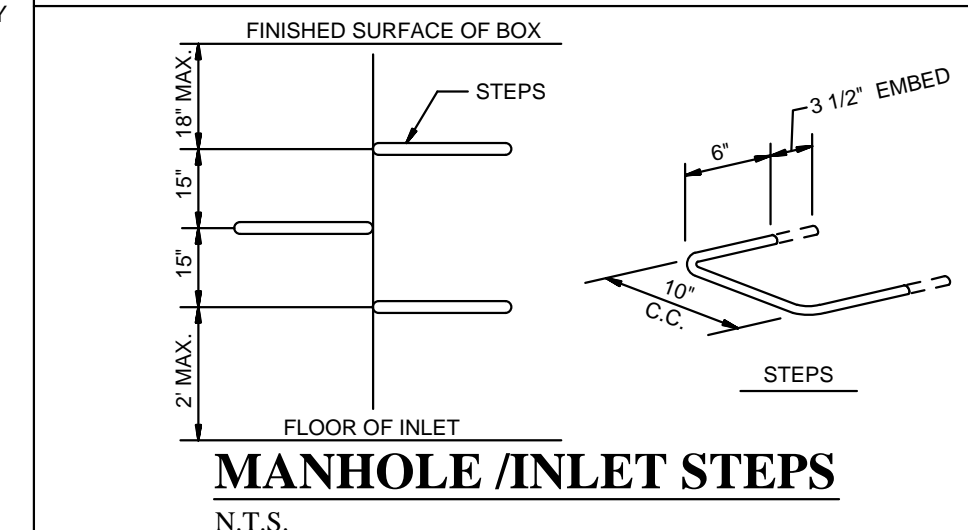
N.T.S.



TYPE I RING & COVER

N.T.S.

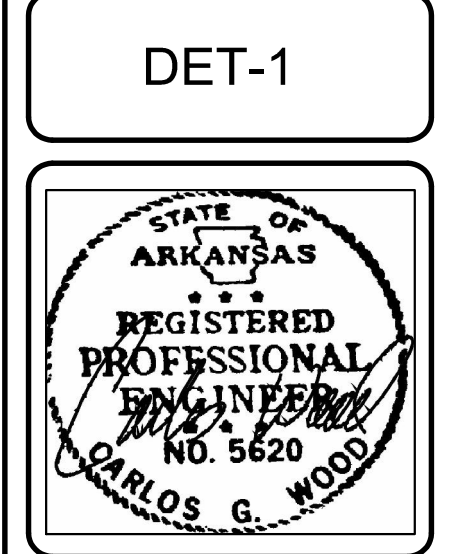
NOTE: TYPE I RING AND COVER PERMITTED ONLY ON STRUCTURES NOT SUBJECT TO VEHICULAR TRAFFIC.



MANHOLE / INLET STEPS

N.T.S.

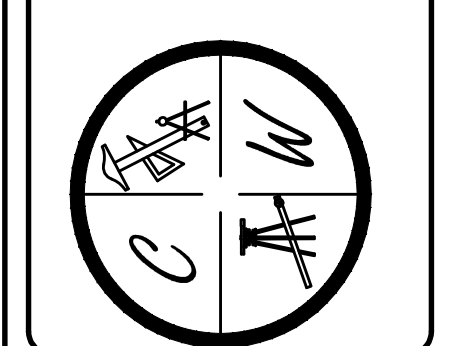
- STEPS SPECIFICATIONS:
- MANHOLE STEPS: CORROSION RESISTANT, COATED AND REINFORCED WITH STEEL PER ASTM C-478. STEEL REINFORCING MINIMUM 1/2" DIAMETER.
 - CAPABLE OF SUPPORTING MINIMUM 300 LB. LOAD.
 - NON-SLIP TEXTURED TRENDS
 - REQUIRED IN ALL STRUCTURES 3'-0" DEEP OR DEEPER, UNLESS SPECIFIED OTHERWISE.

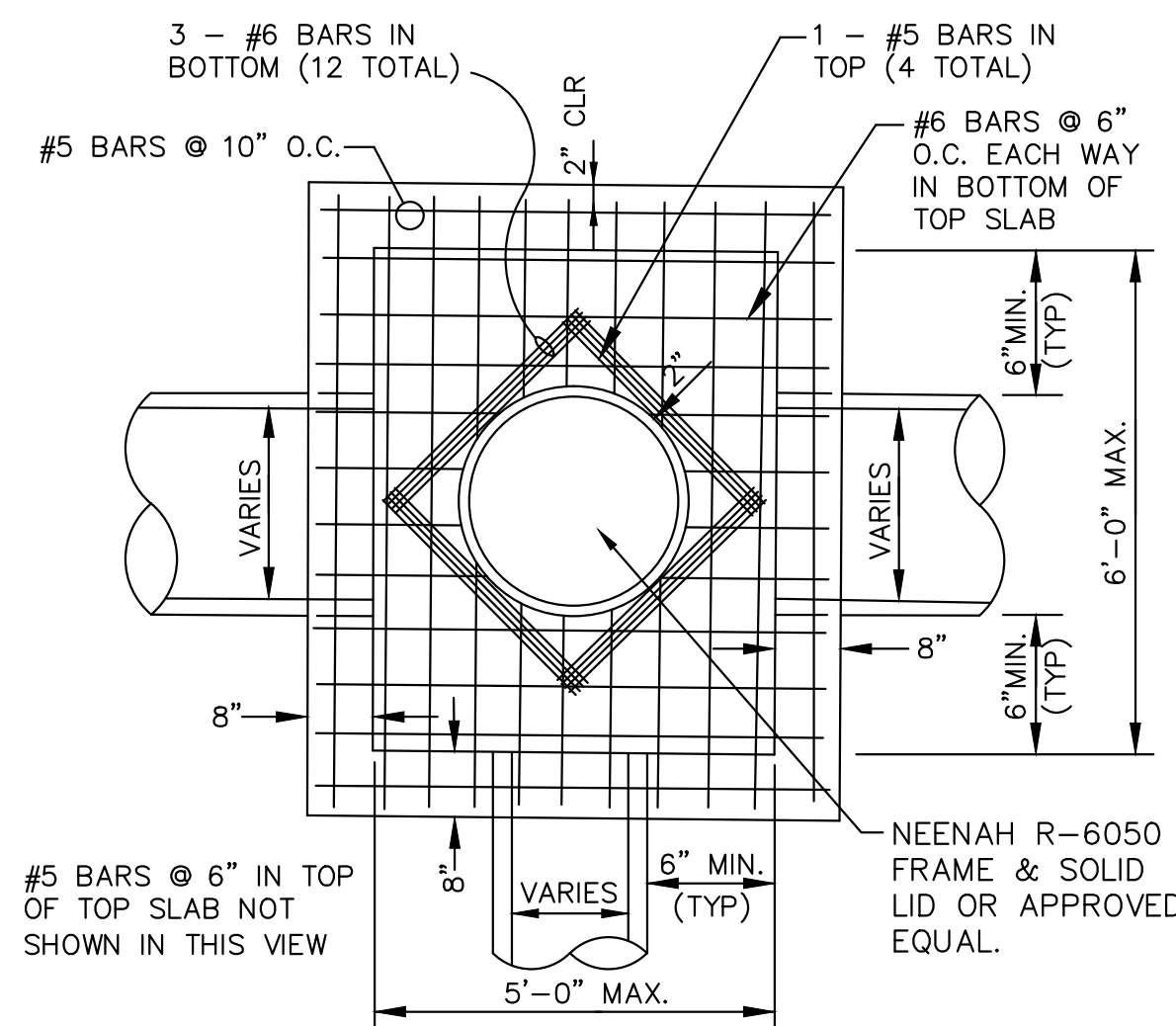


BRIDGER PARK PHASE I
 JONESBORO, AR
 TYPICAL STREET DETAILS

DATE: 4/16/16
 REV:
 DRAWN BY: BGW

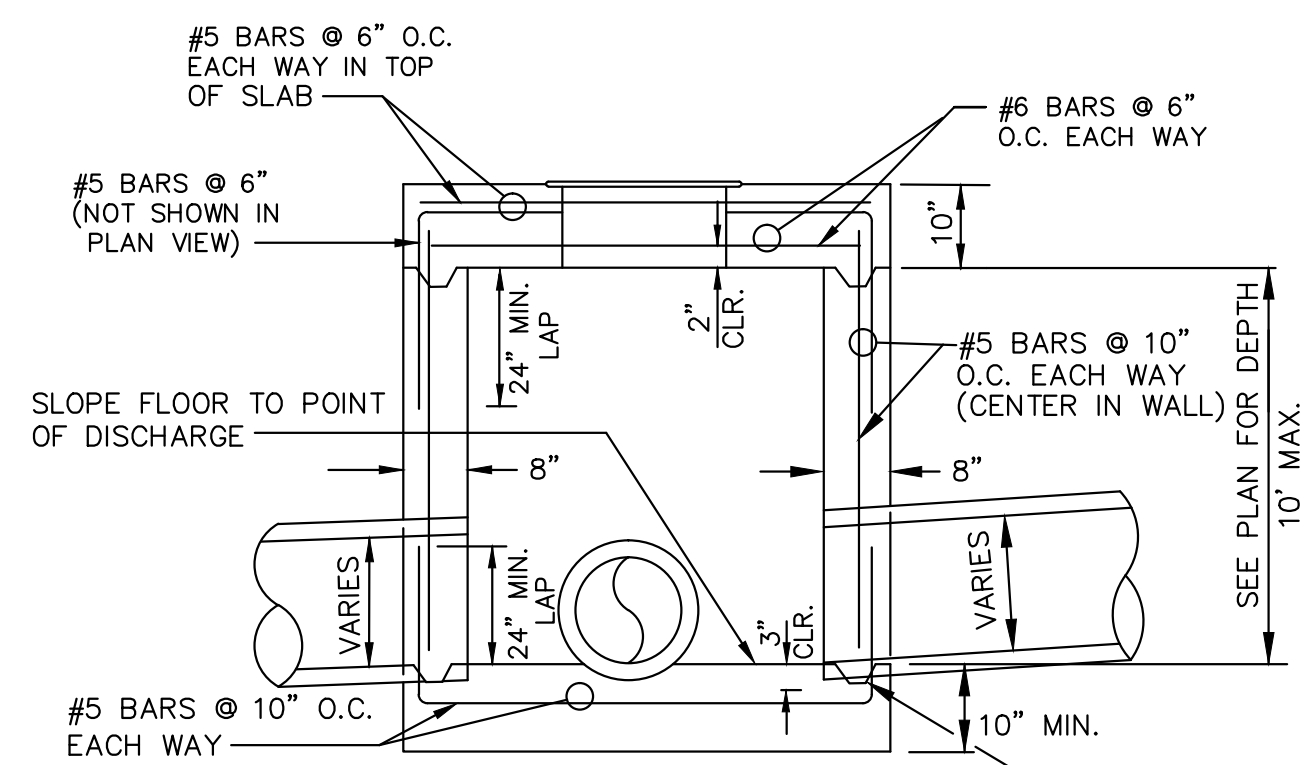
CARLOS WOOD, P.E.
 ENGINEERING CONSULTANT
 148 CR 375
 BONO, AR 72416
 PHONE/FAX: (870) 972-8335
 EMAIL: WOODENR@SBCGLOBAL.NET
 WEBSITE: WWW.WOODENR.COM





PLAN - JUNCTION BOX - HEAVY

SCALE: NONE

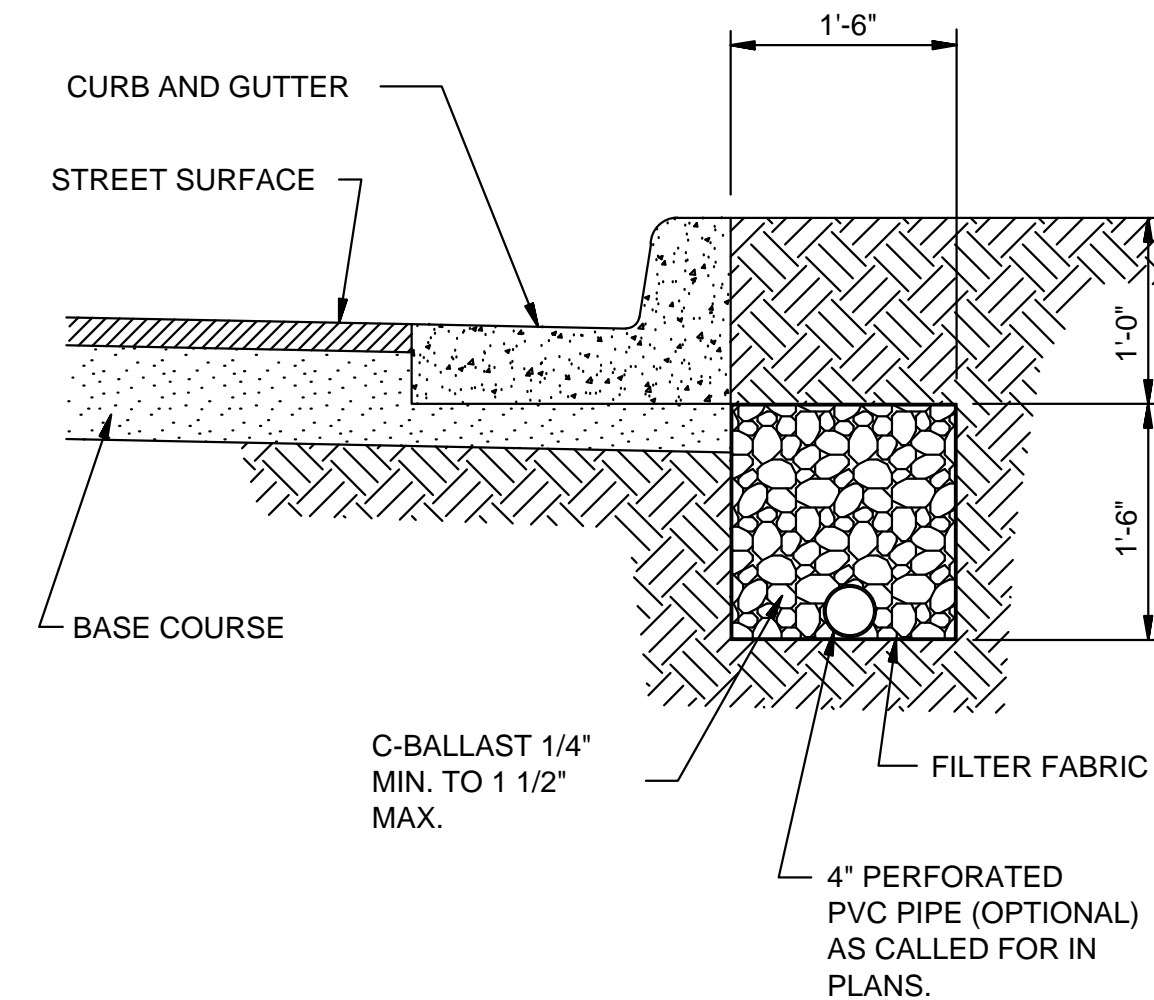


SECTION - JUNCTION BOX - HEAVY

N.T.S.

NOTES:

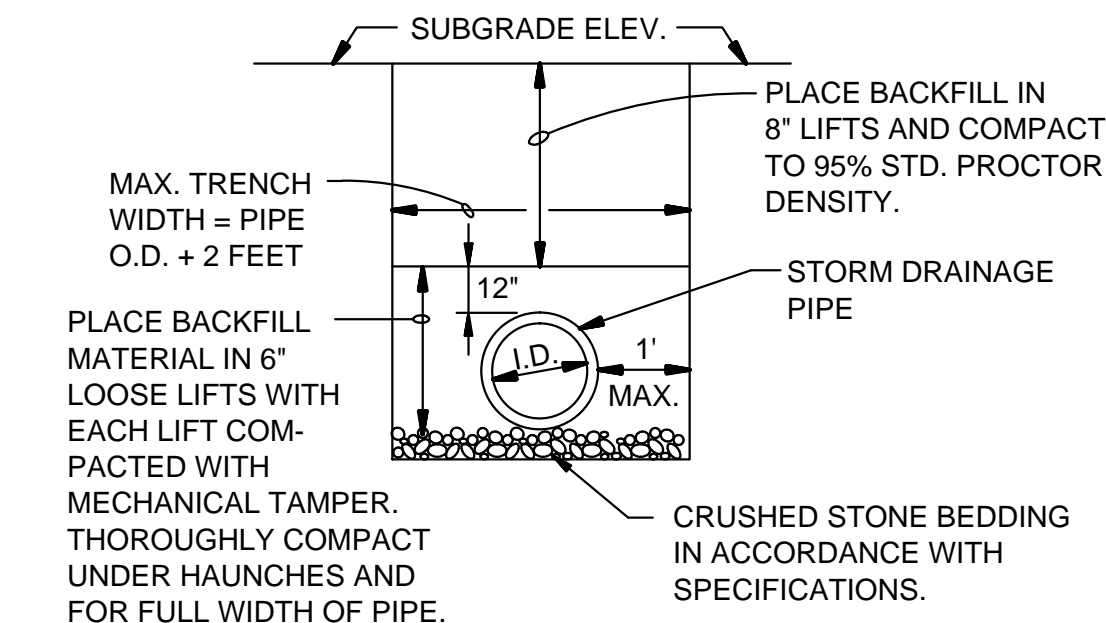
- SHOULD BE USED TO ACCOMMODATE VEHICULAR TRAFFIC.
- JUNCTION BOXES MORE THAN 3 FEET DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED @ 15" O.C.
- SEE REINFORCING DETAIL FOR OPENING IN WALL OR SLAB.



SUB-DRAIN DETAIL

N.T.S.

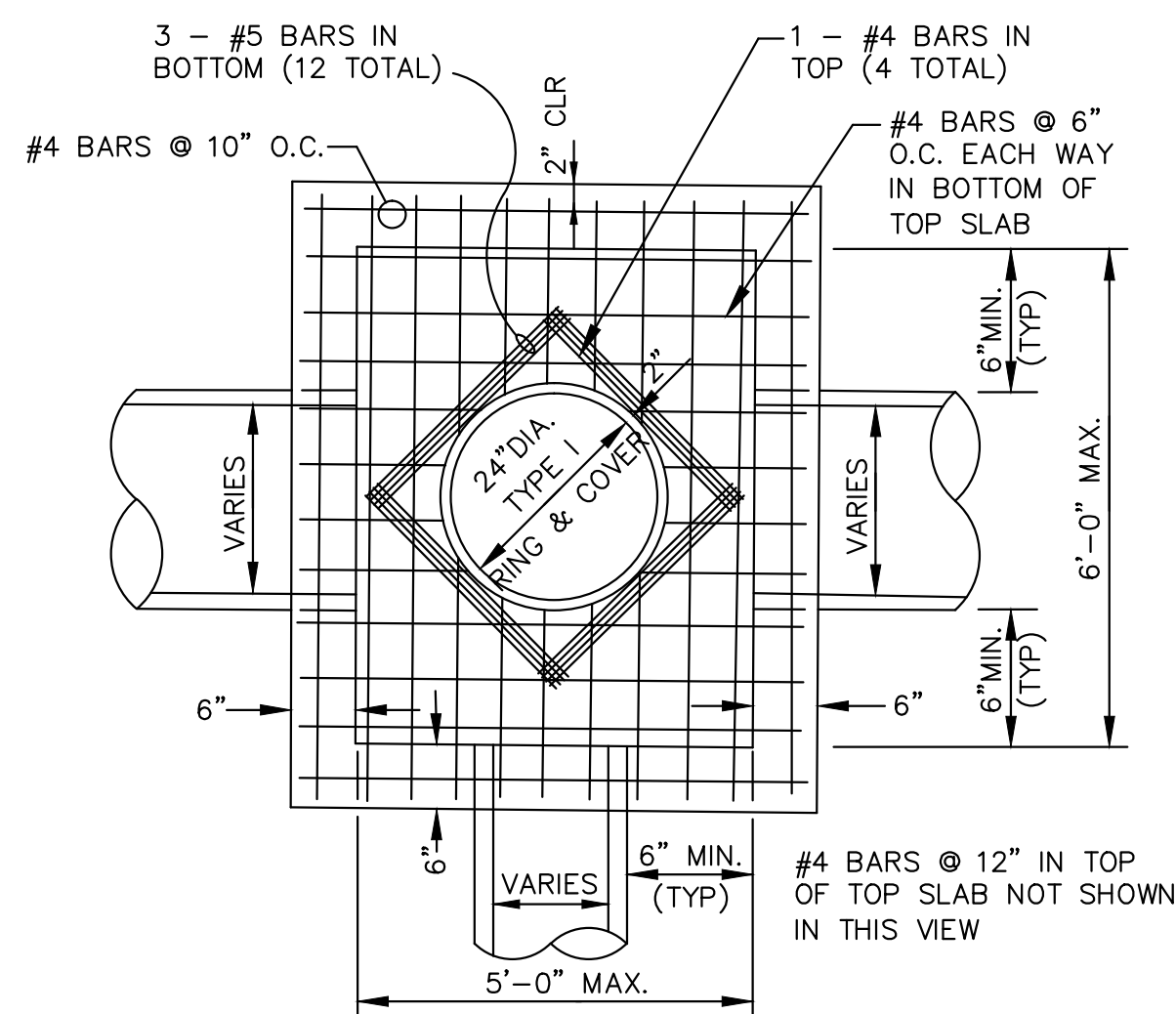
NOTE:
FINAL LOCATION OF SUB-DRAIN MAY BE DETERMINED BY THE ENGINEER DURING THE CONSTRUCTION PERIOD.



DRAINAGE PIPE TRENCH DETAIL

N.T.S.

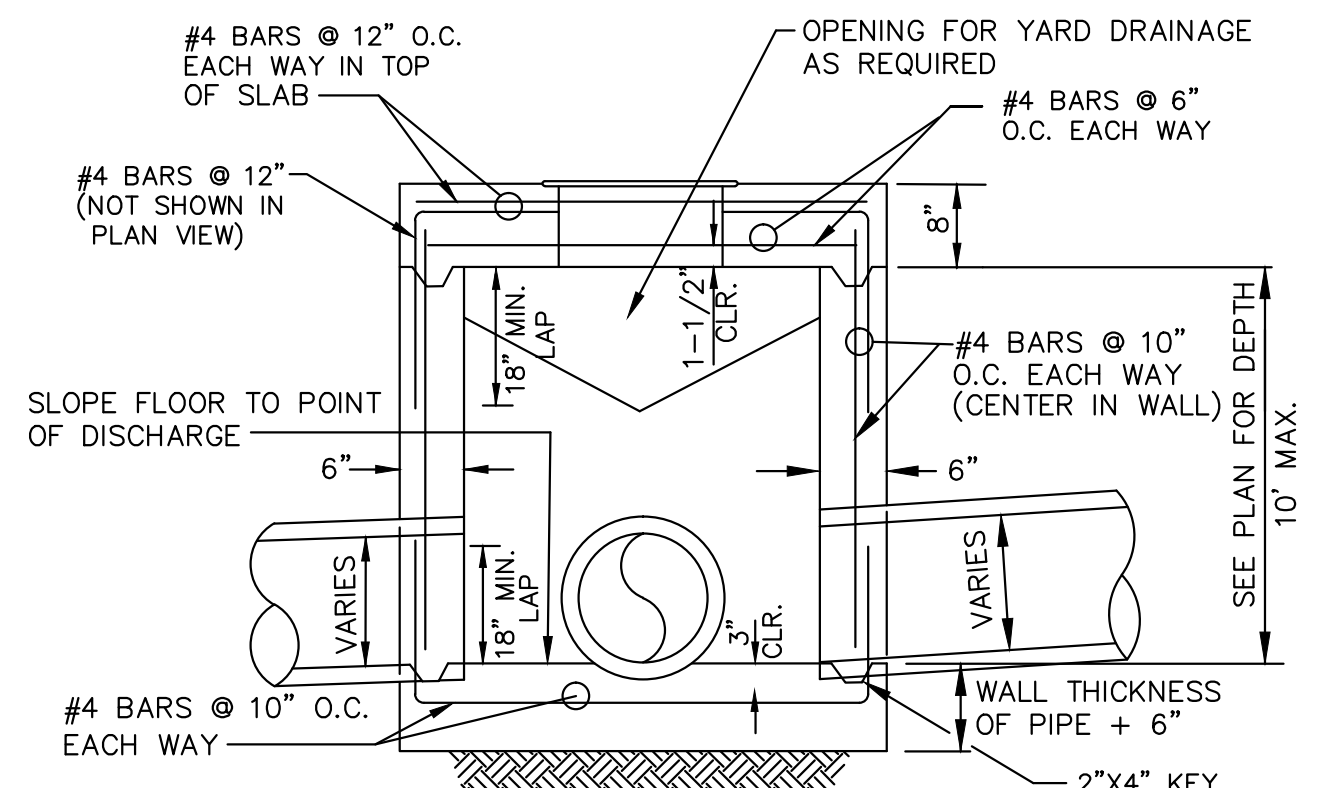
NOTE: TO BE USED WITH NEW STREET CONSTRUCTION. SEE DRAWING NO. PT-1 FOR EXISTING STREET CUTS.



PLAN - JUNCTION BOX - LIGHT

SCALE: NONE

NOTE:
DO NOT USE UNDER VEHICULAR TRAFFIC.

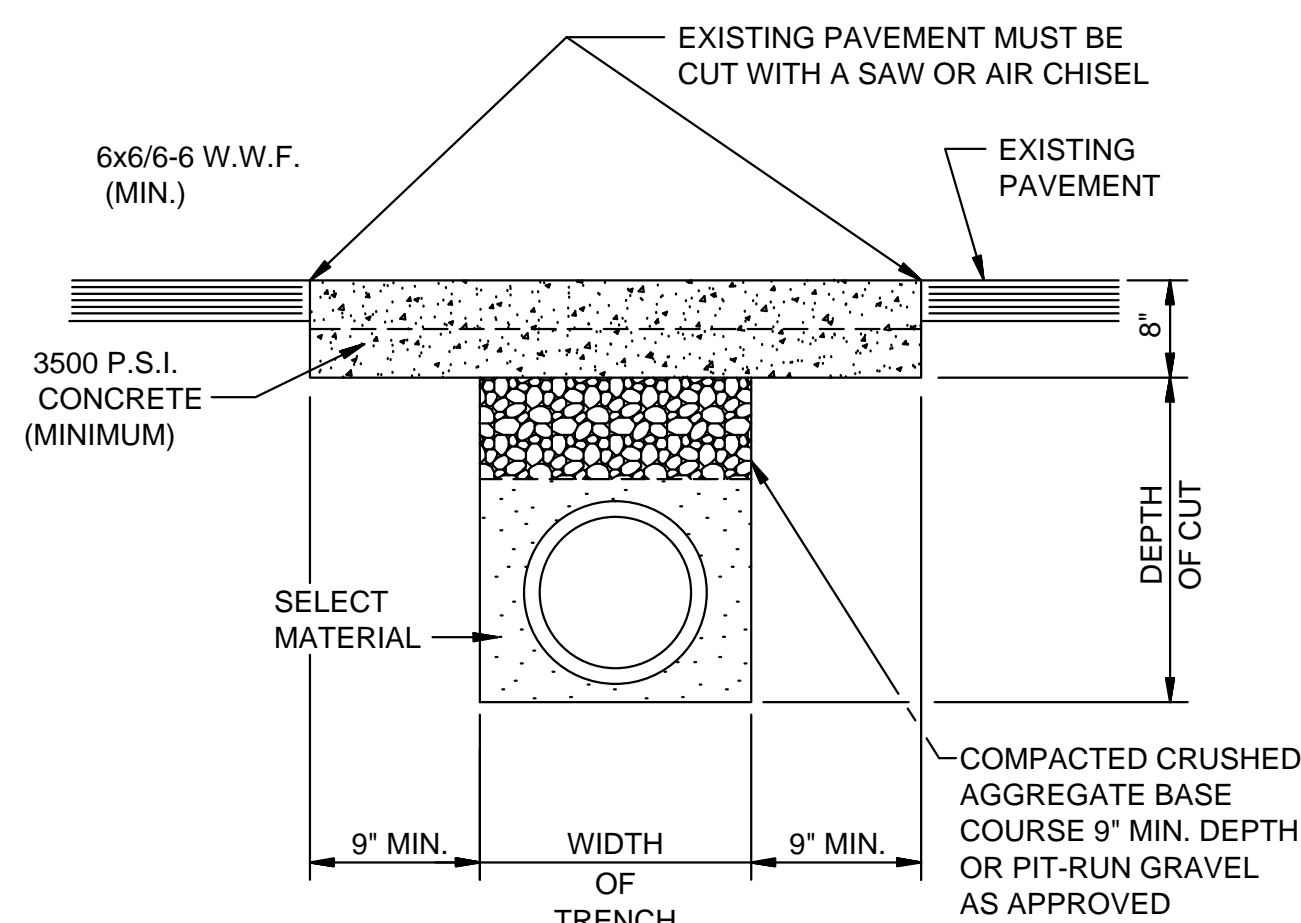


SECTION - JUNCTION BOX - LIGHT

N.T.S.

NOTES:

- AS APPROVED BY THE ENGINEER, WALLS MAY BE 8" BLOCK WITH 1/2" MORTAR. FILL CELLS WITH CONCRETE AND WITH #4'S @ 16" O.C., BLOCK WALLS SHALL NOT BE USED UNDER VEHICULAR LOADING. MINIMUM DISTANCE FROM WALL TO PIPE SHALL BE 8" IF BLOCK WALLS ARE USED.
- JUNCTION BOXES MORE THAN 3 FEET DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED @ 15" O.C.
- SEE REINFORCING DETAIL FOR OPENING IN WALL OR SLAB.



PAVEMENT TRENCH REPAIR DETAIL

N.T.S.

NOTE:
THE CONTRACTOR SHALL CALL PUBLIC WORKS DEPARTMENT FOR INSPECTION PRIOR TO PLACING CRUSHED AGGREGATE BASE COURSE AND PRIOR TO PLACING CONCRETE.

BRIDGER PARK PHASE I
JONESBORO, AR
 TYPICAL
 STREET DETAILS

DATE: 4/16/16

REV:

DRAWN BY: BGW

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