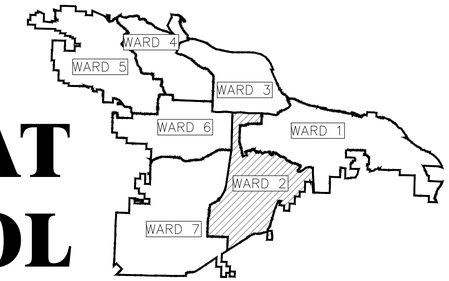
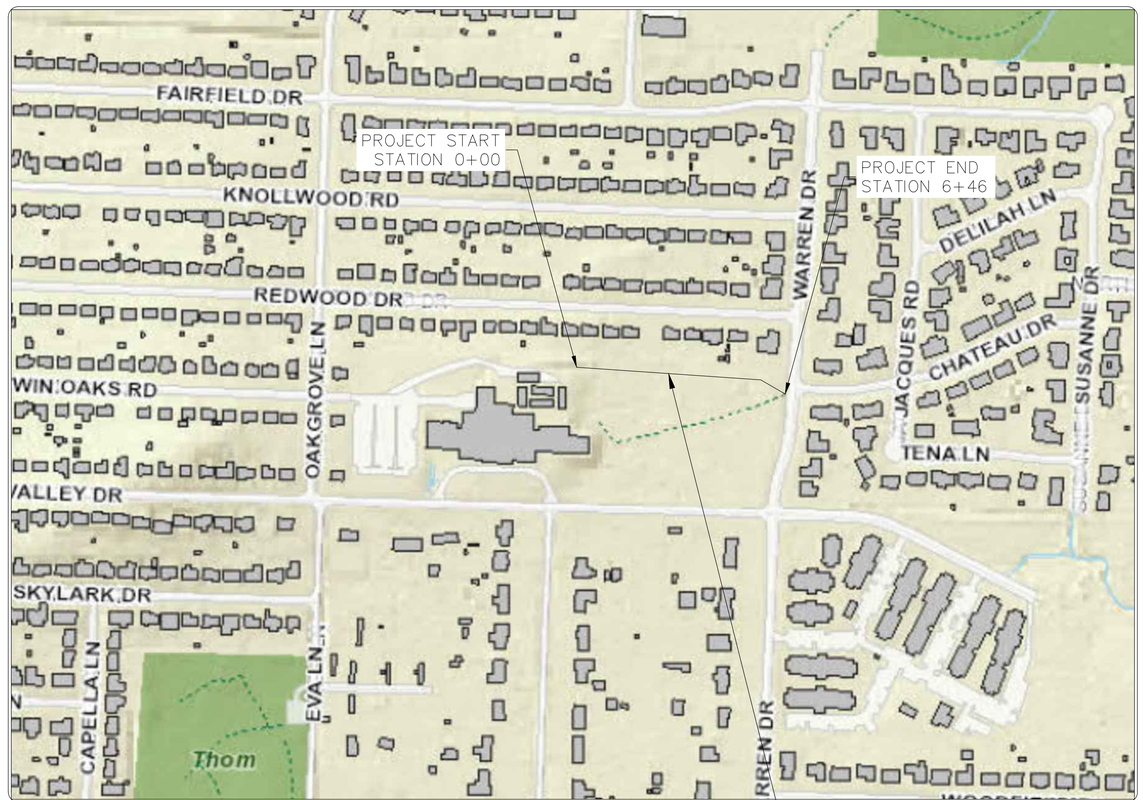
CLR PROJECT # 02-22-DR-09
REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL



PROJECT LOCATION – WARD 2



SHEET #	INDEX OF DRAWINGS
C1	COVER SHEET
C2	GENERAL NOTES AND QUANTITIES
C3	PROJECT SITE OVERVIEW
C4	PLAN AND PROFILE SHEET I
C5	PLAN AND PROFILE SHEET II
C6	PLAN AND PROFILE SHEET III
C7	DETAILS

60% DESIGN SUBMITTAL

BOND PROGRAM

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
LITTLE ROCK, ARKANSAS 72201

PMI
3512 S. SHACKLEFORD RD.
LITTLE ROCK, AR 72205

CERTIFICATE OF AUTHORIZATION
POLLUTION MANAGEMENT, INC.
No. 331
ARKANSAS ENGINEER

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL
COVER SHEET

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	N.T.S.
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C1

Redwood Drive Drainage at Watson Elementary School
December 22, 2023
Opinion of Probable of Cost

Item No.	Item Description	Units	Estimated Quantity	Unit Cost	Total Cost
1	Tree Removal	LS	1	$18,000.00	$18,000.00
2	Grading	CY	631	$15.00	$9,465.00
3	Concrete Headwall	EA	1	$700.00	$700.00
4	Reinforced Concrete Pipe 24"	LF	53	$150.00	$7,950.00
5	Trenching 0-6 feet	LF	53	$35.00	$1,855.00
6	Concrete Sidewalk Repair	SY	2	$70.00	$140.00
7	Final Cleanup	LS	1	$1,000.00	$1,000.00
8	Silt Fence	LF	658	$3.00	$1,974.00
				Subtotal =	$37,970.00
				Contingency (20%) =	$7,594.00
				Estimated Construction Total =	**$45,564.00**

EXISTING

IRON ROD IR
PK NAIL PK
R.R. SPIKE RR(Sp)
CONC. MONUMENT CM
WATER VALVE WV
WATER METER WM
FIRE HYDRANT FH
GAS METER GM
GAS VALVE GV
CLEAN-OUT CO
GUARD POST (BOLLARD) GP
SIGN POST
BENCHMARK
STORM SEWER MANHOLE D
SANITARY SEWER MANHOLE S
TELEPHONE MANHOLE T
ELECTRIC MANHOLE E
TELEPHONE BOX
ELECTRIC BOX
CABLE BOX
UTILITY POLE
GUY WIRE
LIGHT POLE
POST OR POLE (TYPE AS NOTED)
MAILBOX
DECIDUOUS TREE
EVERGREEN/CONIFEROUS TREE
BUSH
PROPERTY LINE
SETBACK LINE
EASEMENT LINE
CURB
FENCE X X X
OVERHEAD ELECTRIC OE OE
OVERHEAD TELEPHONE OT OT
OVERHEAD CABLE OC OC
UNDERGROUND TELEPHONE UGT
UNDERGROUND ELECTRIC UGE
UNDERGROUND CABLE UGC
WATER LINE 8"W
SEWER LINE 8"SS
GAS LINE 4"G
STORM SEWER/CULVERT 24" CMP/RCP/DIP
EDGE OF WOODS
CONTOUR LINE 650

PROPOSED

PROPOSED CONTOUR 25
PROPOSED SPOT ELEVATION 25.00
PROPOSED SPOT CURB ELEVATION 25.50 25.00
STORM SEWER – PIPE
STORM SEWER – MITERED END SECTION
STORM SEWER – GRATE INLET
STORM SEWER – JUNCTION BOX D D
STORM SEWER – FLARED END SECTION
STORM SEWER – HEADWALL
STORM SEWER – SINGLE WING D
STORM SEWER – DOUBLE WING D
STORM SEWER – AREA INLET D
GRADE BREAK LINE
HIGH POINT HP
LOW POINT LP
CUT LINE C
FILL LINE F
SANITARY SEWER PIPE SAN
SANITARY SEWER MANHOLE S
PROPOSED CURB
PROPOSED CONCRETE
CONSTRUCTION – ENTRANCE/EXIT CO
CHECK DAM CD
DIVERSION BERM DI
DOWNDRAIN STRUCTURE – TEMPORARY DN
ROCK DAM RD
SEDIMENT BARRIER – SILT FENCE SD1
SEDIMENT BARRIER – GRAVEL RING SD2
SEDIMENT BARRIER – BLOCK & GRAVEL SD3
SEDIMENT BARRIER – BLOCK SD4
TEMPORARY SEDIMENT BASIN SB1
SILT FENCE – TYPE A SFA
SILT FENCE – TYPE B SFB
SILT FENCE – TYPE C SFC
STORM DRAIN OUTLET PROTECTION ST
SURFACE ROUGHENING SU
DISTURBED AREA STABILIZATION –TEMPORARY STABILIZATION TS1
DISTURBED AREA STABILIZATION –TEMPORARY GRASSING TS2
DISTURBED AREA STABILIZATION –PERMANENT GRASSING TS3
MATTING/BLANKETS Mb

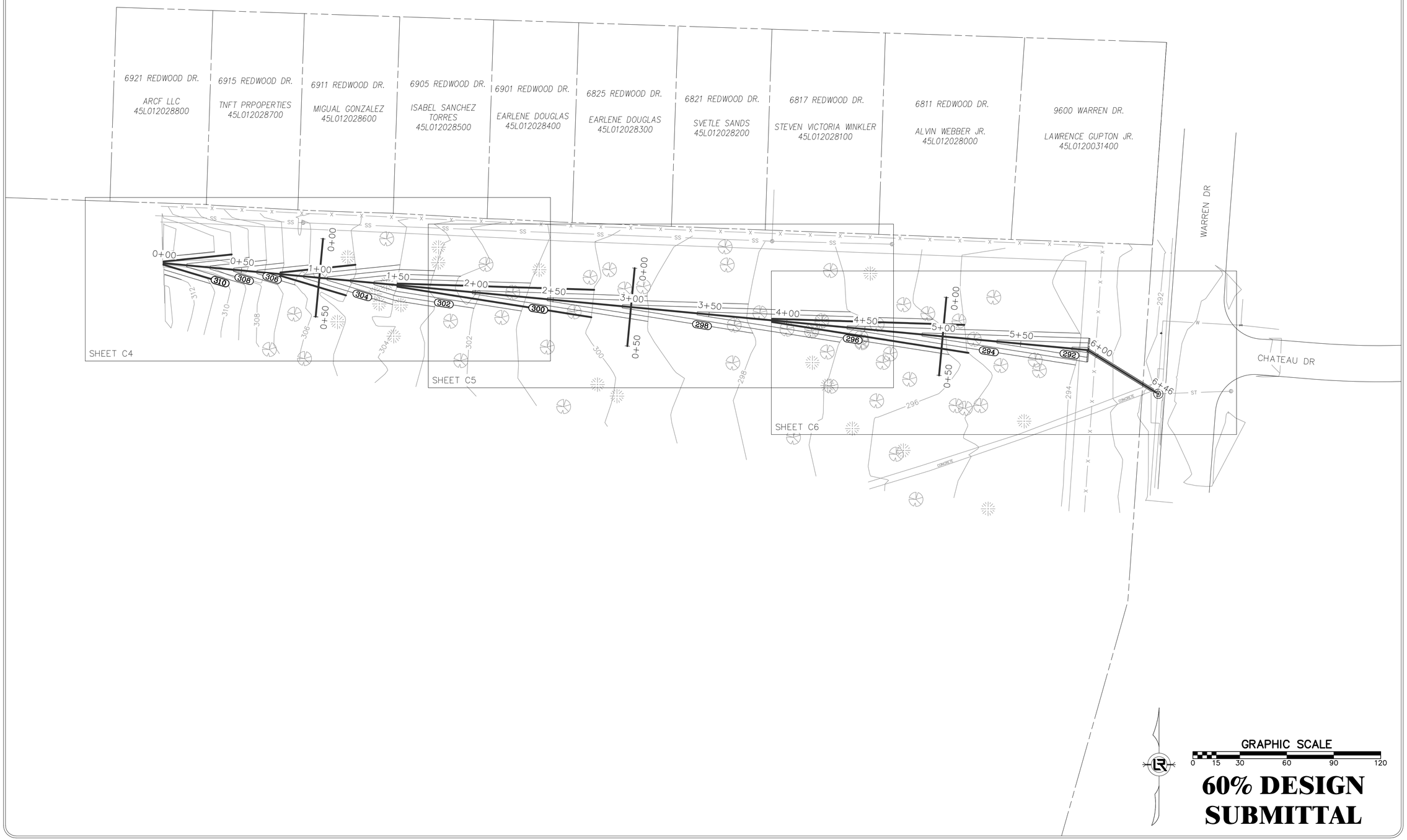
60% DESIGN SUBMITTAL

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL
GENERAL NOTES AND QUANTITIES

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY CTG
DESIGNED CTG
CHECKED BJW
DATE 12-22-2023
SCALE N.T.S.
PROJECT NO. CLR 02-22-DR-09
SHEET NO. C2



60% DESIGN SUBMITTAL

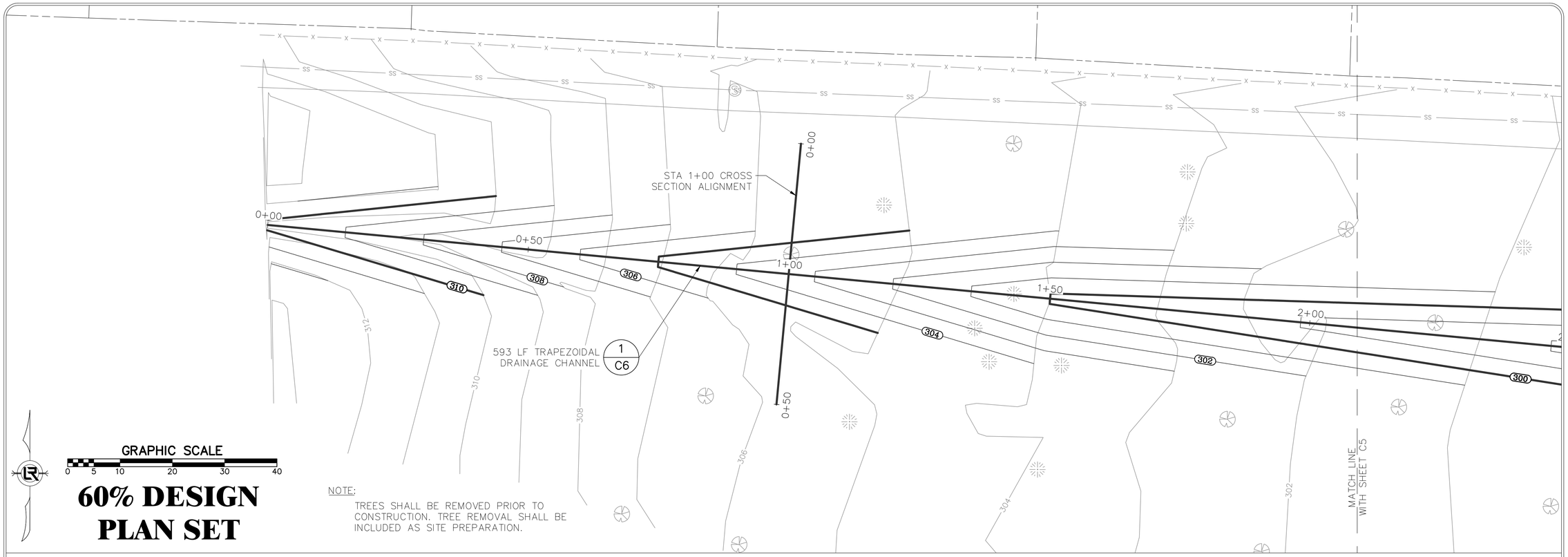
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL

PROJECT SITE OVERVIEW

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	1" = 30'
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C3

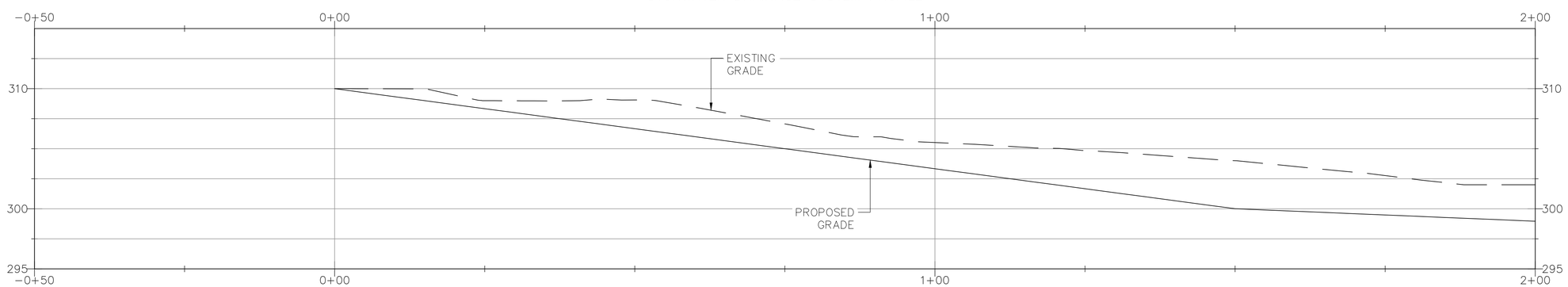


60% DESIGN PLAN SET

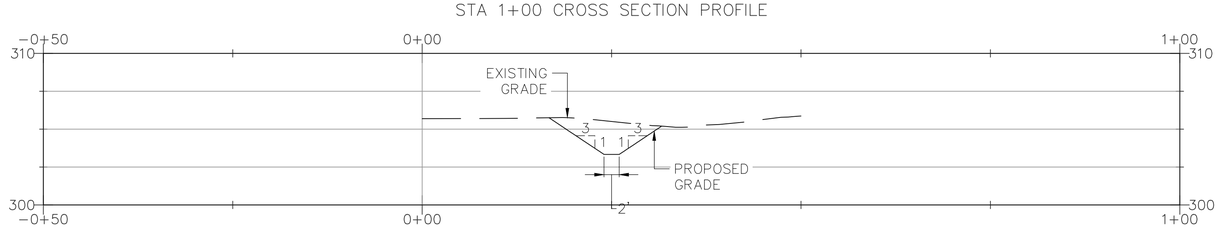
NOTE:

TREES SHALL BE REMOVED PRIOR TO CONSTRUCTION. TREE REMOVAL SHALL BE INCLUDED AS SITE PREPARATION.

STORWATER DRAINAGE SYSTEM PROFILE



STA 1+00 CROSS SECTION PROFILE



REVISIONS	DATE

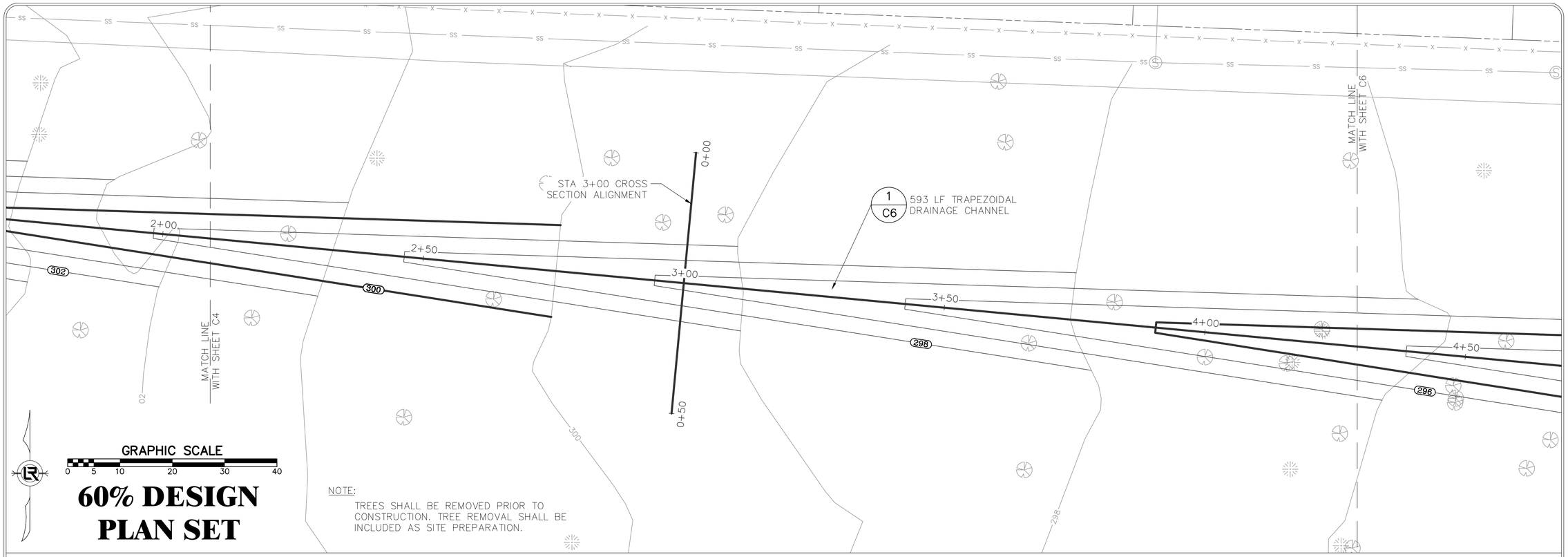
CITY OF LITTLE ROCK, ARKANSAS

REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL

PLAN AND PROFILE SHEET I

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	1" = 10'
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C4

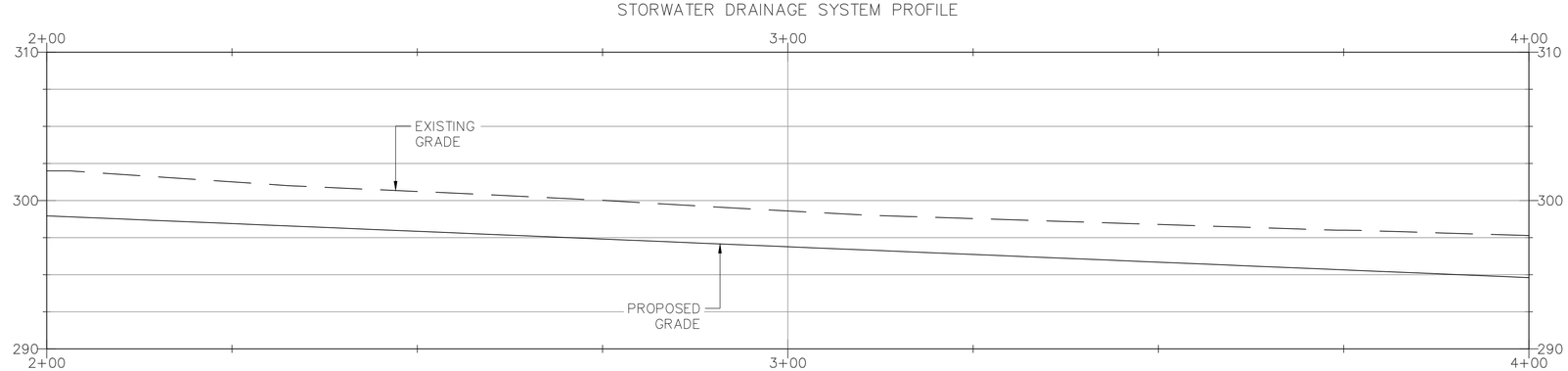


60% DESIGN PLAN SET

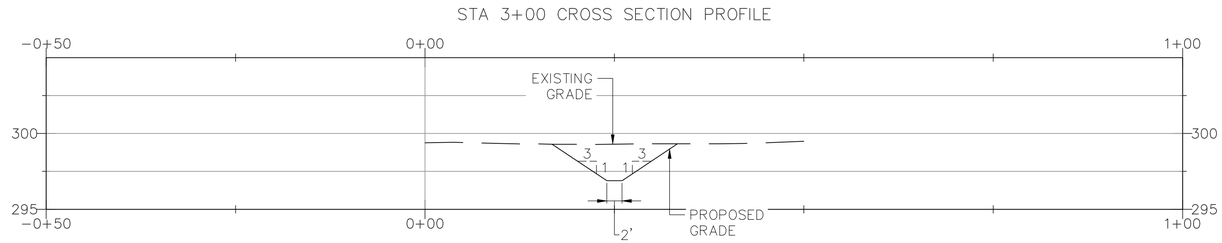
NOTE:

TREES SHALL BE REMOVED PRIOR TO CONSTRUCTION. TREE REMOVAL SHALL BE INCLUDED AS SITE PREPARATION.

STORWATER DRAINAGE SYSTEM PROFILE



STA 3+00 CROSS SECTION PROFILE



REVISIONS	DATE

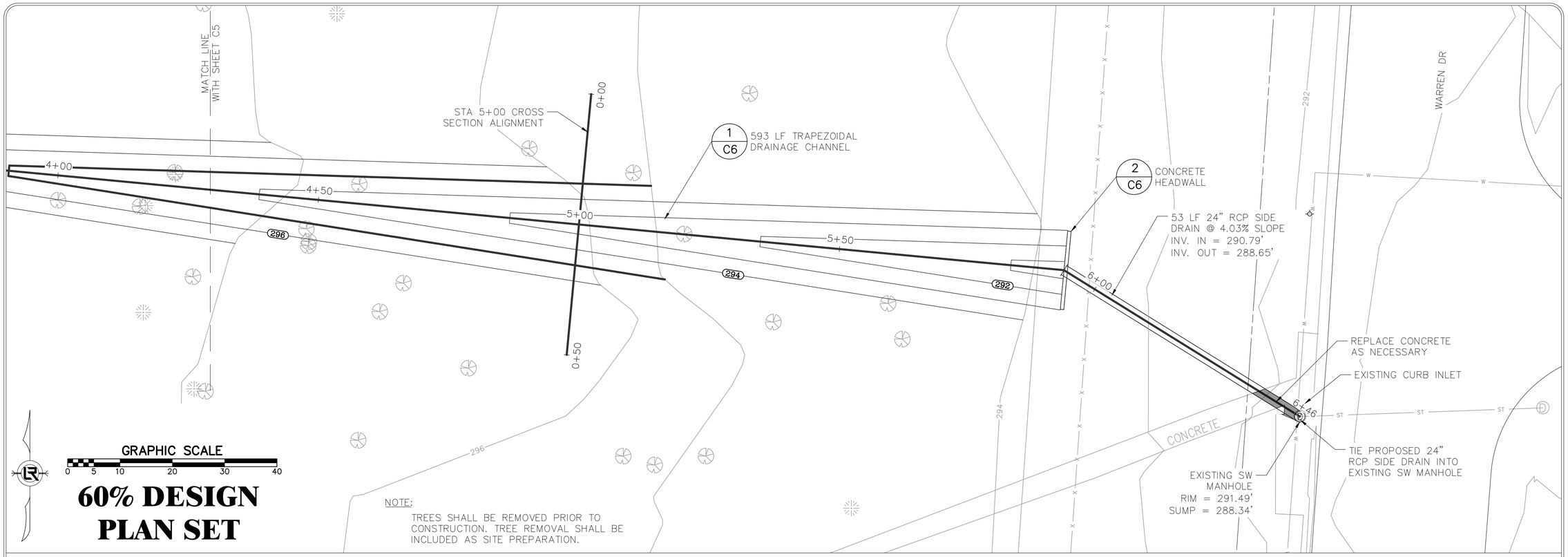
CITY OF LITTLE ROCK, ARKANSAS

REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL

PLAN AND PROFILE SHEET II

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

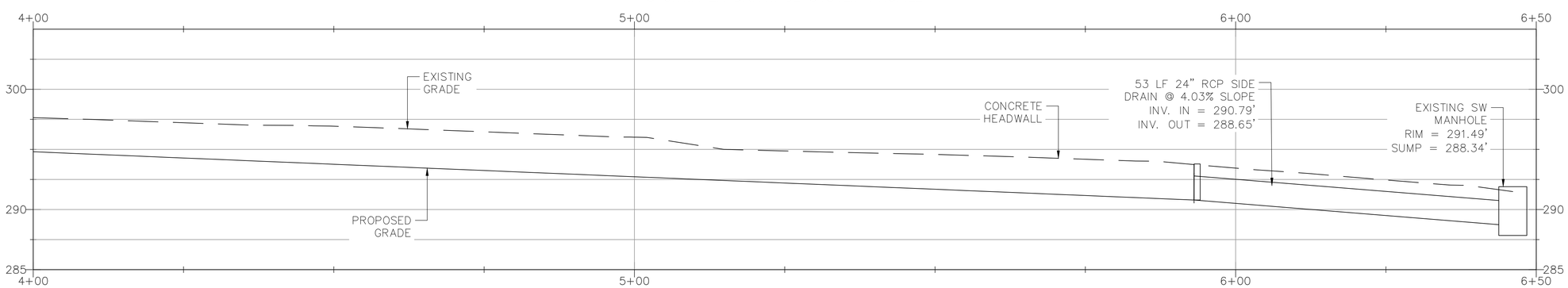
DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	1" = 10'
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C5



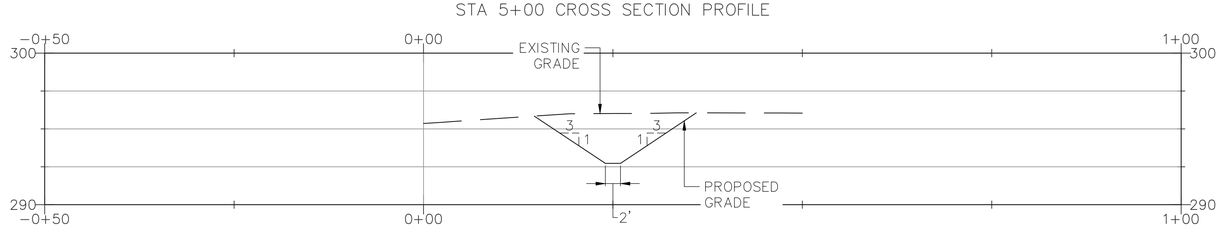
60% DESIGN PLAN SET

NOTE:
TREES SHALL BE REMOVED PRIOR TO CONSTRUCTION. TREE REMOVAL SHALL BE INCLUDED AS SITE PREPARATION.

STORWATER DRAINAGE SYSTEM PROFILE



STA 5+00 CROSS SECTION PROFILE

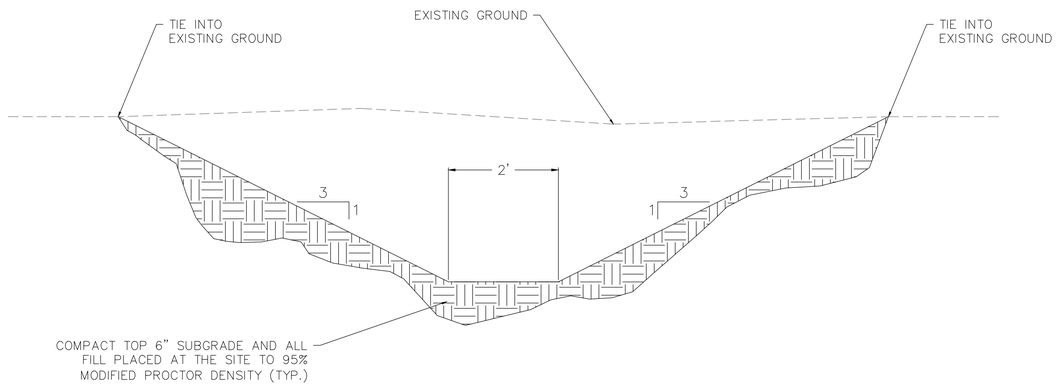


REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL
PLAN AND PROFILE SHEET III

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

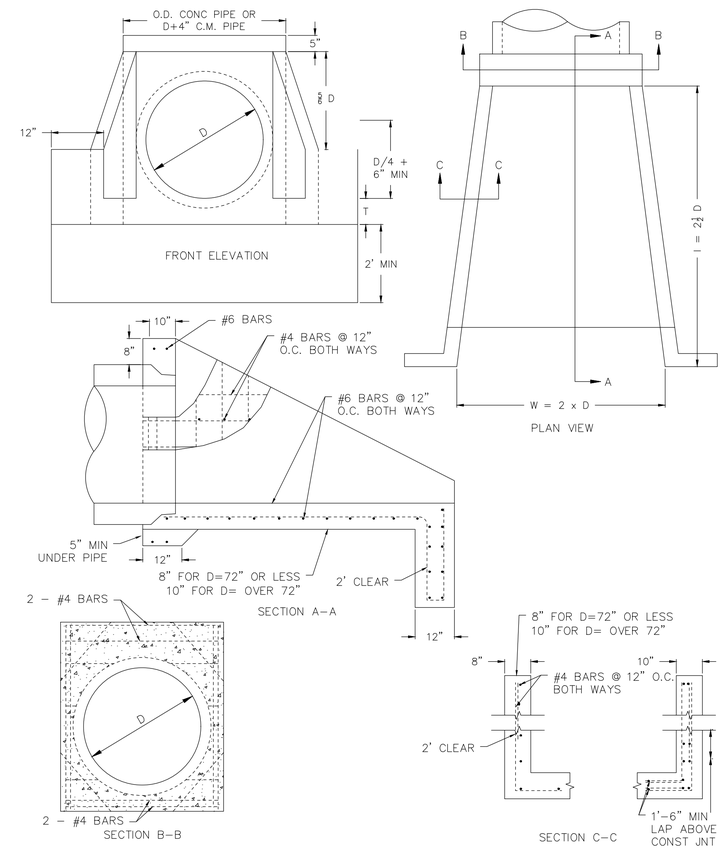
DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	1" = 10'
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C6



DRAINAGE CHANNEL DETAIL

SCALE: NTS

1 / C6



HEADWALL DETAIL

SCALE: NTS

2 / C6

60% DESIGN PLAN SET

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS

REDWOOD DRIVE DRAINAGE AT WATSON ELEMENTARY SCHOOL

DETAILS

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY	CTG
DESIGNED	CTG
CHECKED	BJW
DATE	12-22-2023
SCALE	1" = 10'
PROJECT NO.	CLR 02-22-DR-09
SHEET NO.	C6