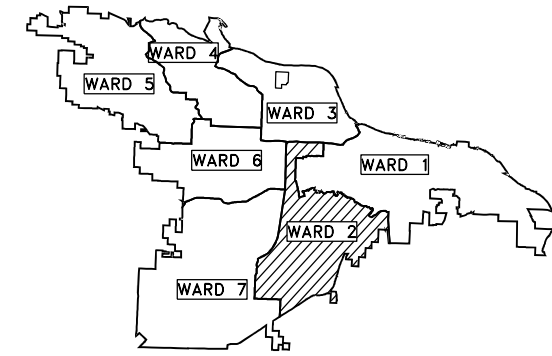
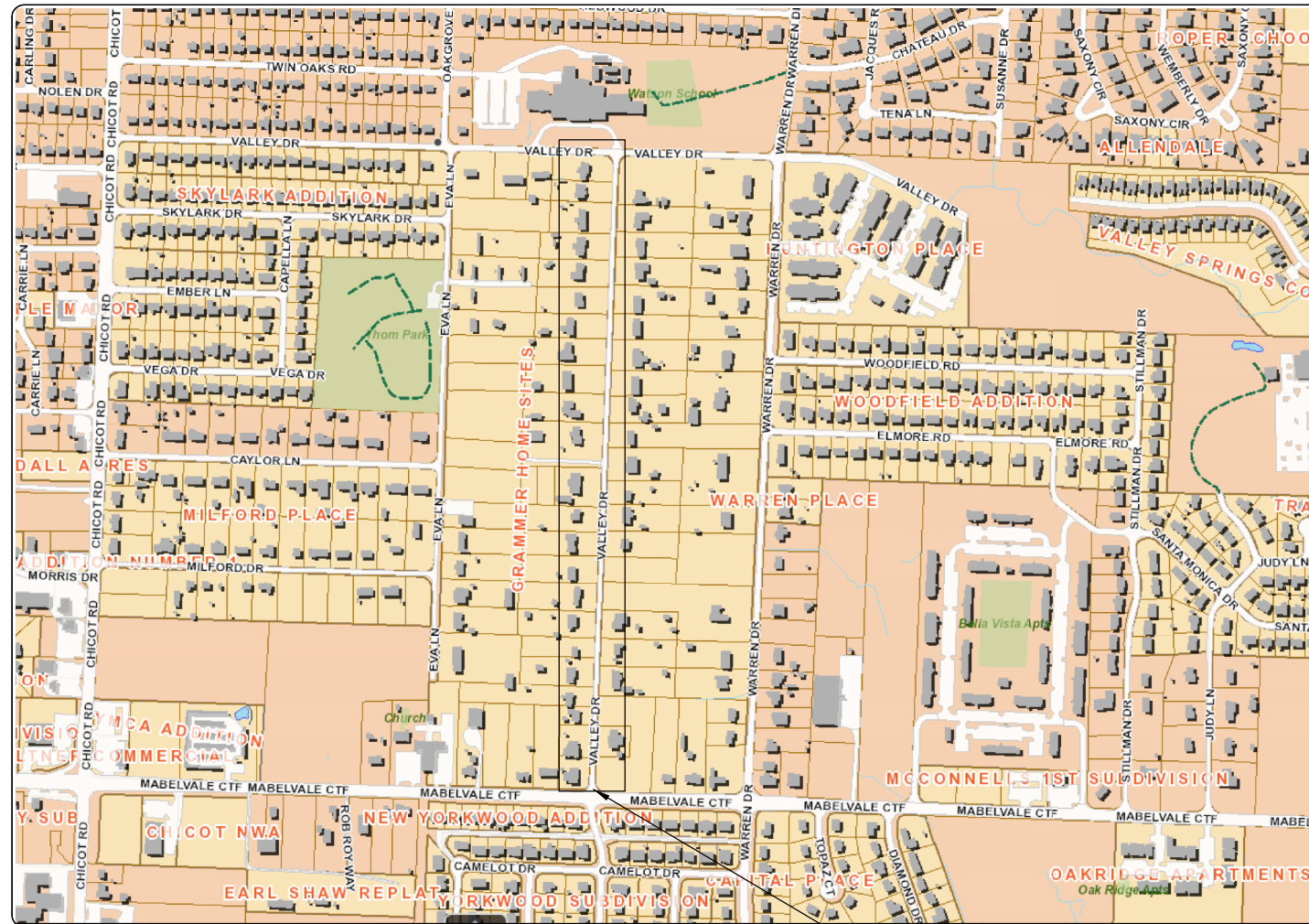


VALLEY DRIVE DRAINAGE IMPROVEMENTS

02 - 20 - ST - 171



PROJECT LOCATION - WARD 2



PROJECT
LOCATION

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

PRELIMINARY
SUBJECT TO REVISION

PREPARED BY:

VOLKERT

2102 RIVERFRONT DR, SUITE 100
LITTLE ROCK, AR 72202
PHONE: (501) 817-7510

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
VALLEY DRIVE DRAINAGE IMPROVEMENTS

COVER SHEET

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



DRAWN BY
JDZ
DESIGNED
JDZ
CHECKED

DATE
02/01/2024
SCALE
1" = 50'

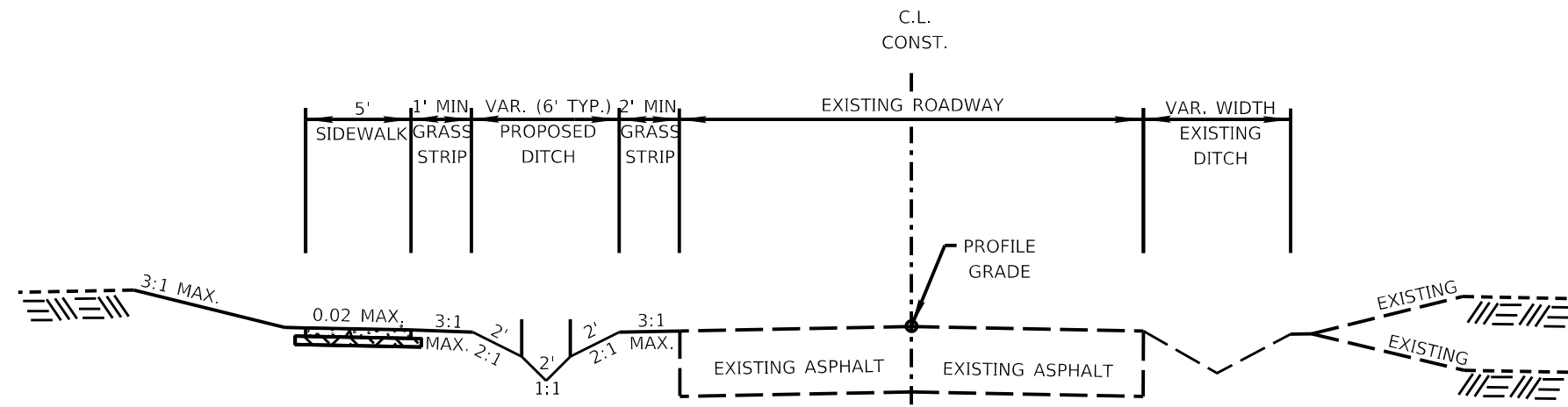
PROJECT NO.
02 - 20 - ST - 171
SHEET NO.

C1



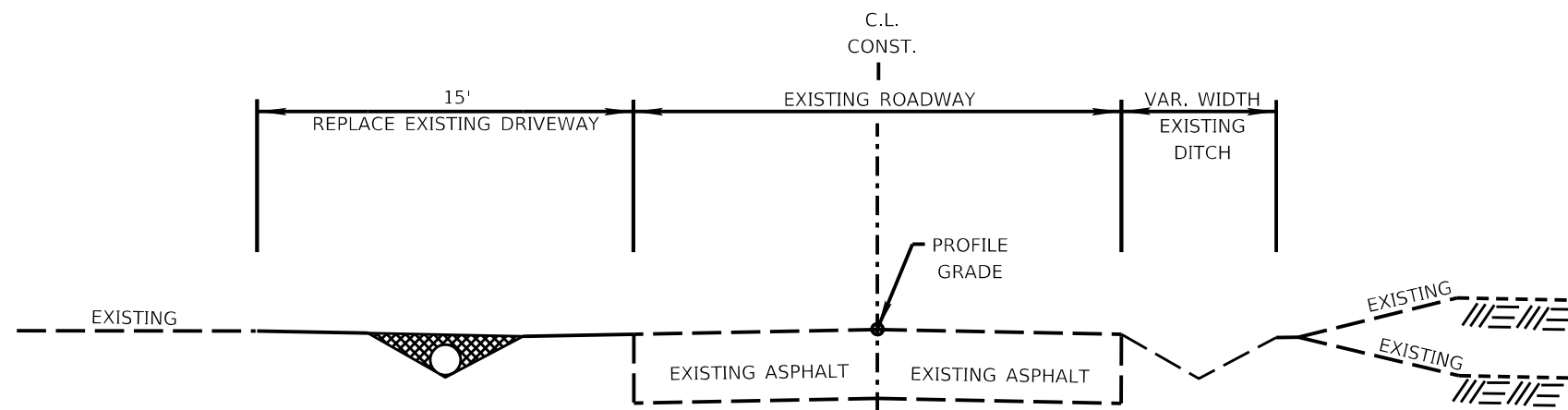
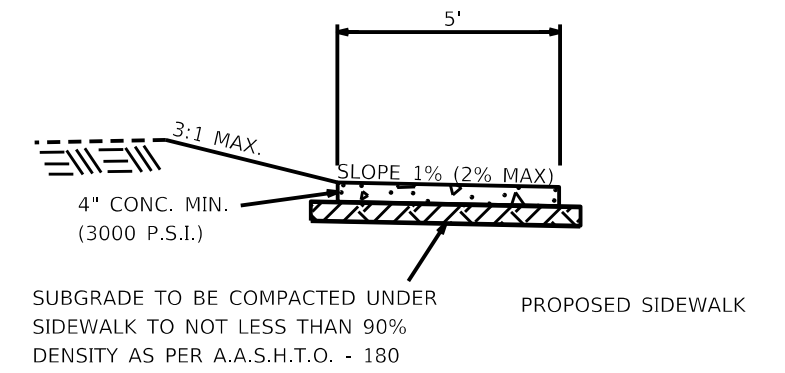
DATE REVISED	DATE REVISED	WARD	CITY	JOB NO.	SHEET NO.	TOTAL SHEETS
		2	LITTLE ROCK	02-20-ST-171	XX	XX
TYPICAL SECTIONS OF IMPROVEMENT						

PRELIMINARY
SUBJECT TO REVISION



TANGENT SECTION

VALLEY DRIVE (LOCAL RESIDENTIAL)
STA. 10+21.71 TO STA. 36+07.05

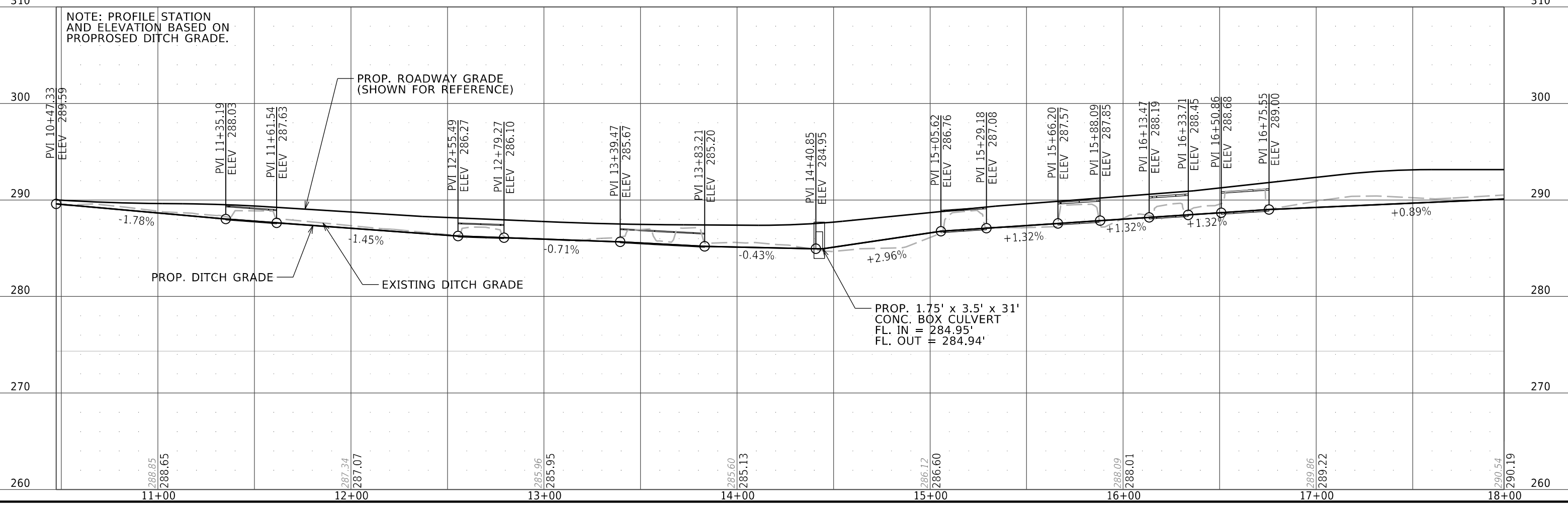
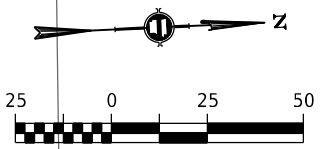
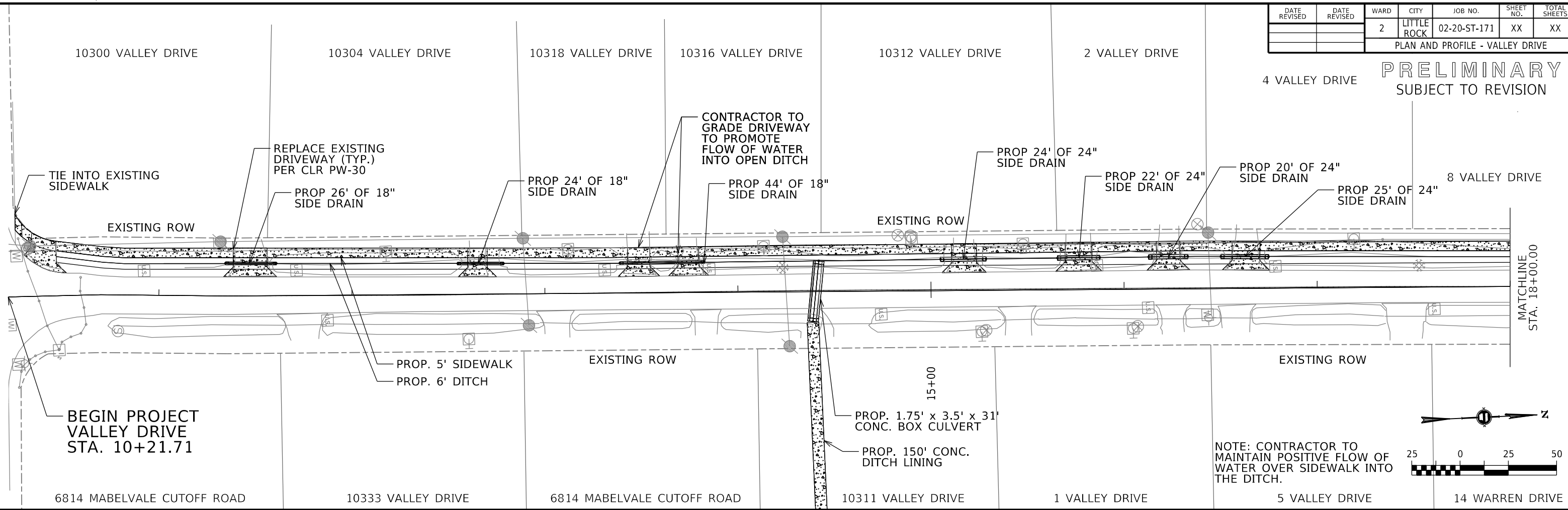


TANGENT SECTION AT DRIVEWAY

VALLEY DRIVE (LOCAL RESIDENTIAL)
STA. 10+21.71 TO STA. 36+07.05

DATE REVISION	DATE REVISION	WARD	CITY	JOB NO.	SHEET NO.	TOTAL SHEETS
		2	LITTLE ROCK	02-20-ST-171	XX	XX

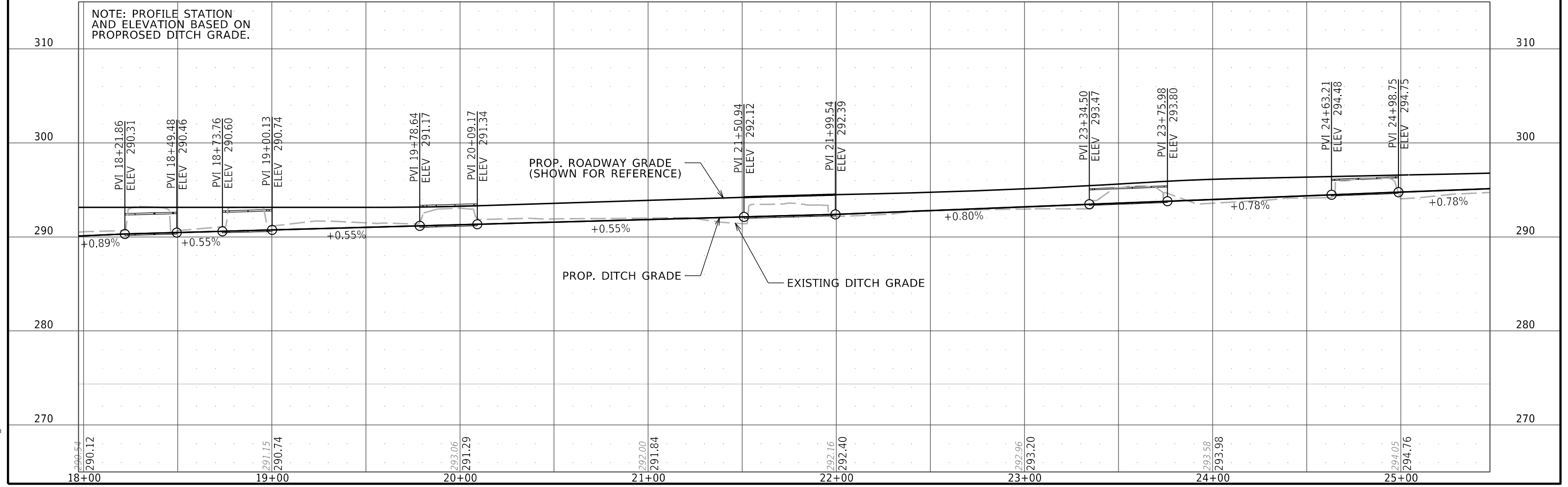
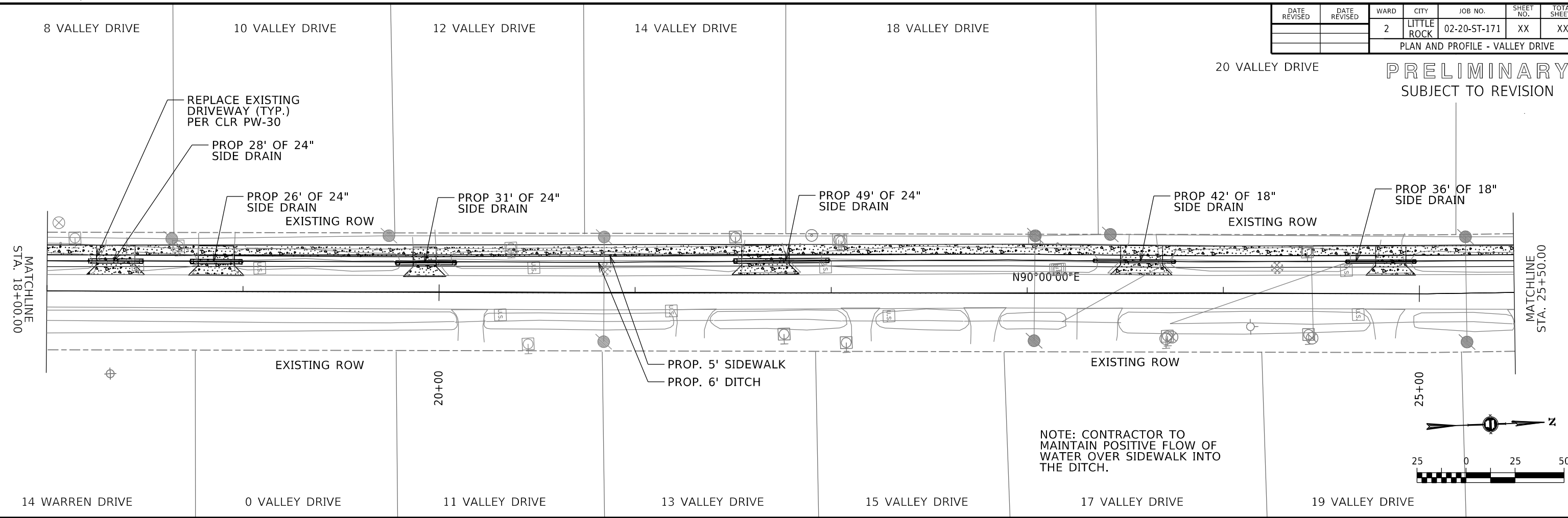
PRELIMINARY
SUBJECT TO REVISION



03 - VALLEY_PLAN AND PROFILE.DGN CREATED: 3/12/2024 3:20:2024 SAVED: 3/20/2024

DATE REVISED	DATE REVISED	WARD	CITY	JOB NO.	SHEET NO.	TOTAL SHEETS
		2	LITTLE ROCK	02-20-ST-171	XX	XX

PRELIMINARY
SUBJECT TO REVISION



03 - VALLEY_PLAN_AND_PROFILE.DGN CREATED: 3/12/2024 SAVED: 3/20/2024

22 VALLEY DRIVE

24 VALLEY DRIVE

26 VALLEY DRIVE

28 VALLEY DRIVE

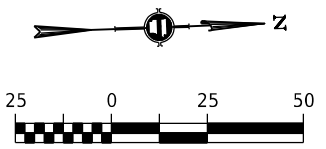
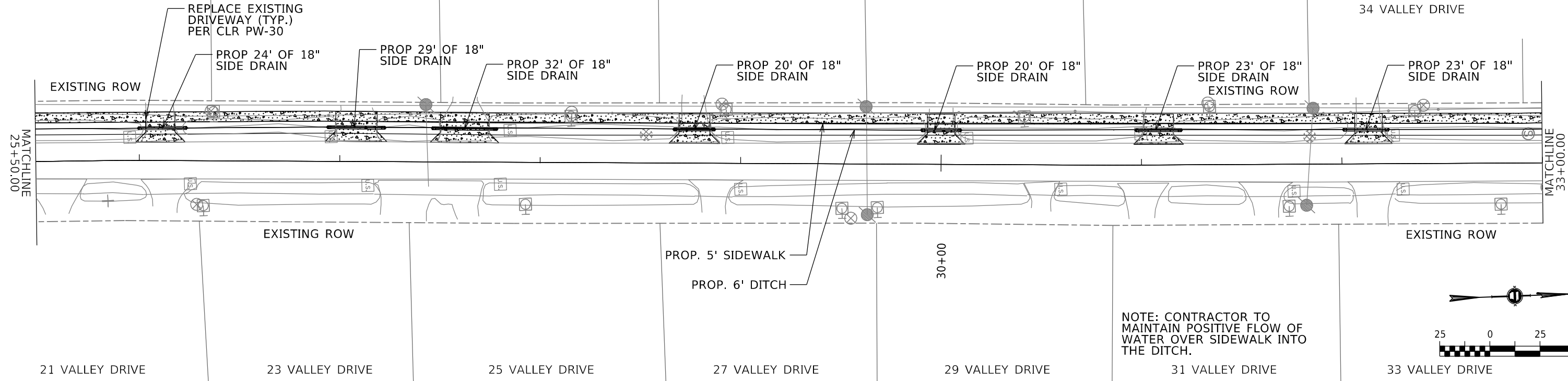
30 VALLEY DRIVE

32 VALLEY DRIVE

DATE REVISION	DATE REVISION	WARD	CITY	JOB NO.	SHEET NO.	TOTAL SHEETS
		2	LITTLE ROCK	02-20-ST-171	XX	XX
PLAN AND PROFILE - VALLEY DRIVE						

PRELIMINARY
SUBJECT TO REVISION

34 VALLEY DRIVE



21 VALLEY DRIVE

23 VALLEY DRIVE

25 VALLEY DRIVE

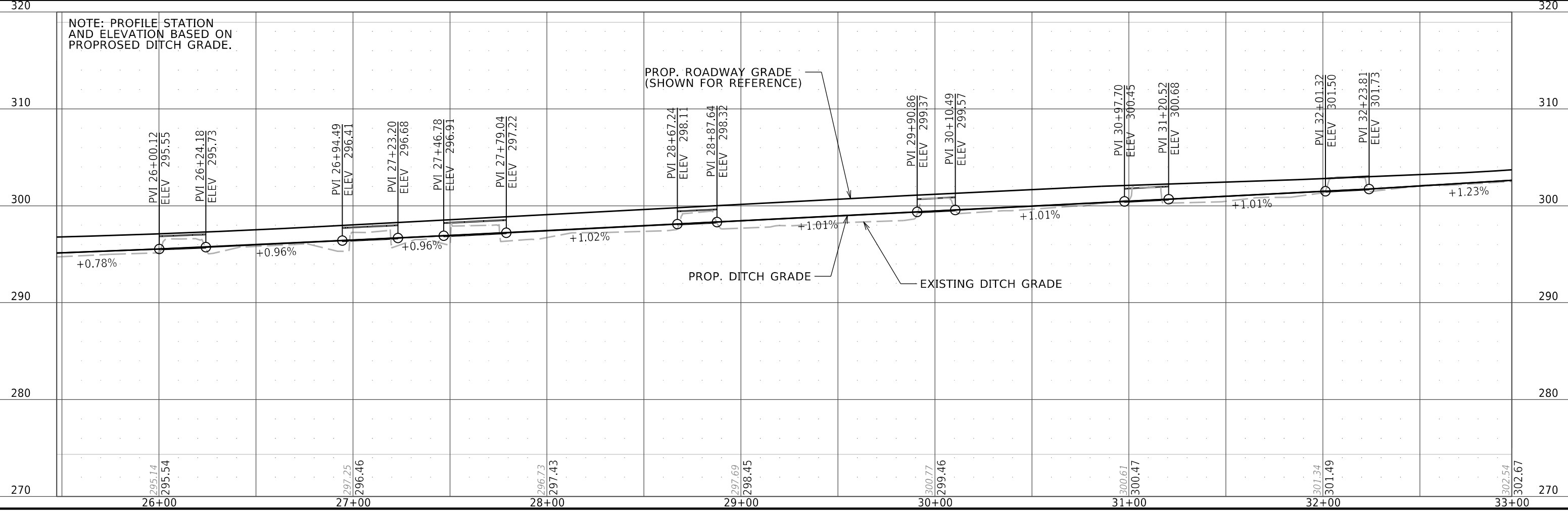
27 VALLEY DRIVE

29 VALLEY DRIVE

31 VALLEY DRIVE

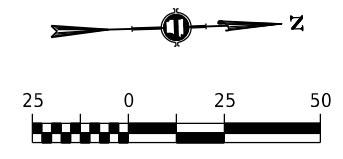
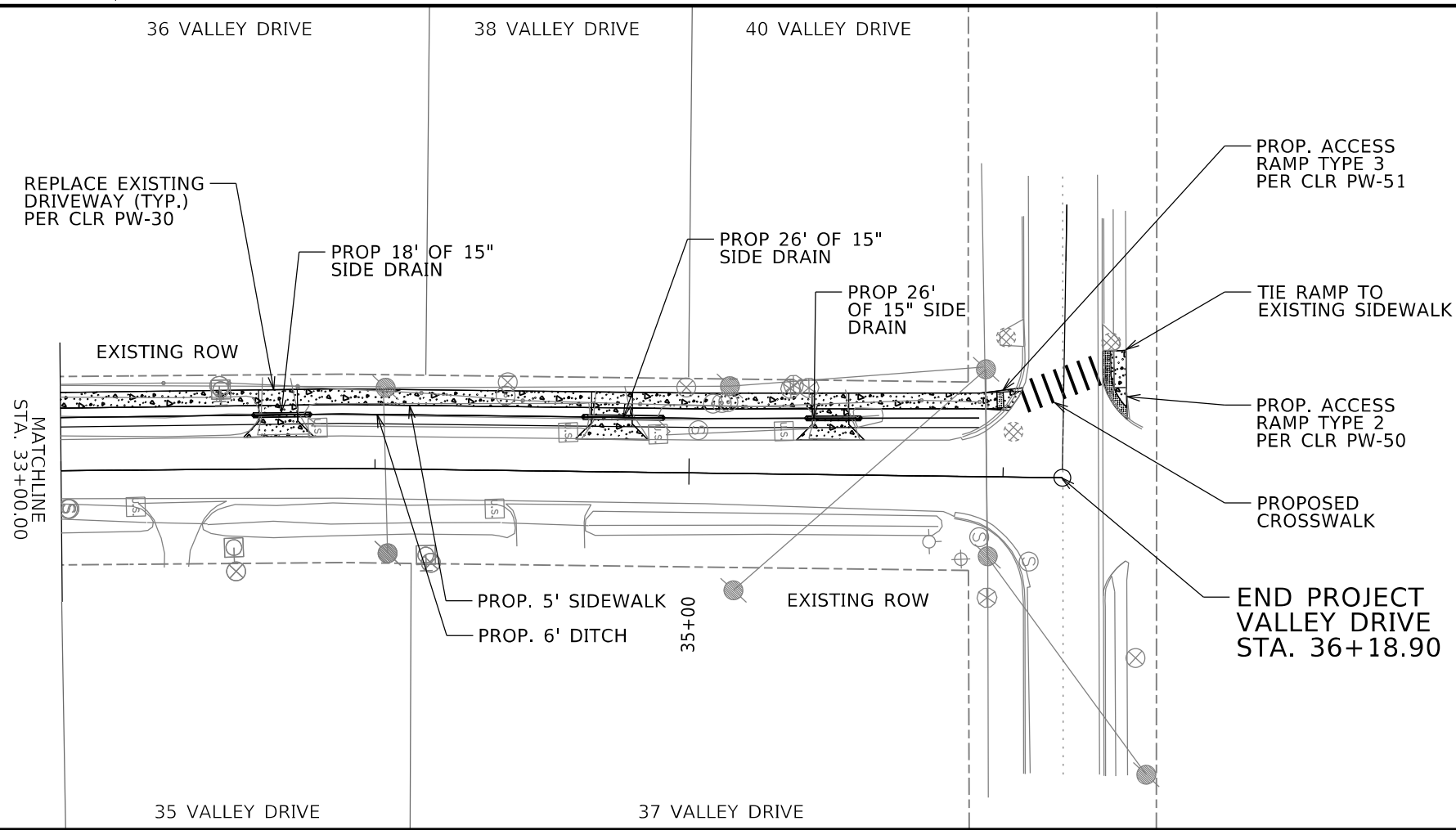
33 VALLEY DRIVE

NOTE: PROFILE STATION AND ELEVATION BASED ON PROPOSED DITCH GRADE.

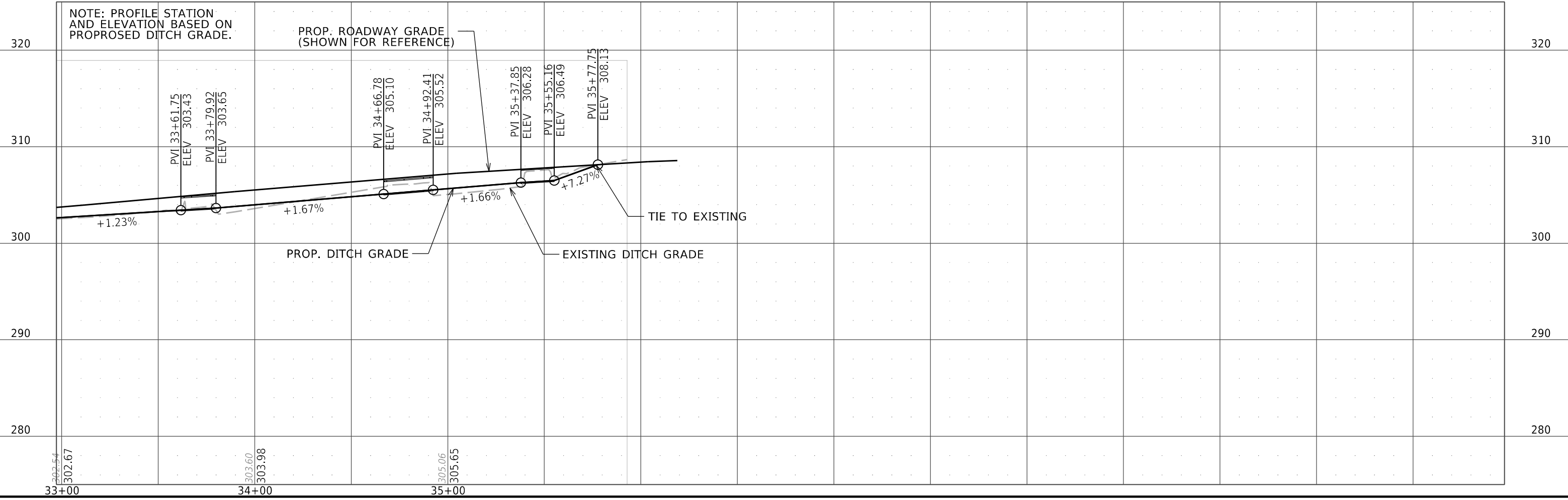


DATE REVISED	DATE REVISED	WARD	CITY	JOB NO.	SHEET NO.	TOTAL SHEETS
		2	LITTLE ROCK	02-20-ST-171	XX	XX
PLAN AND PROFILE - VALLEY DRIVE						

PRELIMINARY
SUBJECT TO REVISION

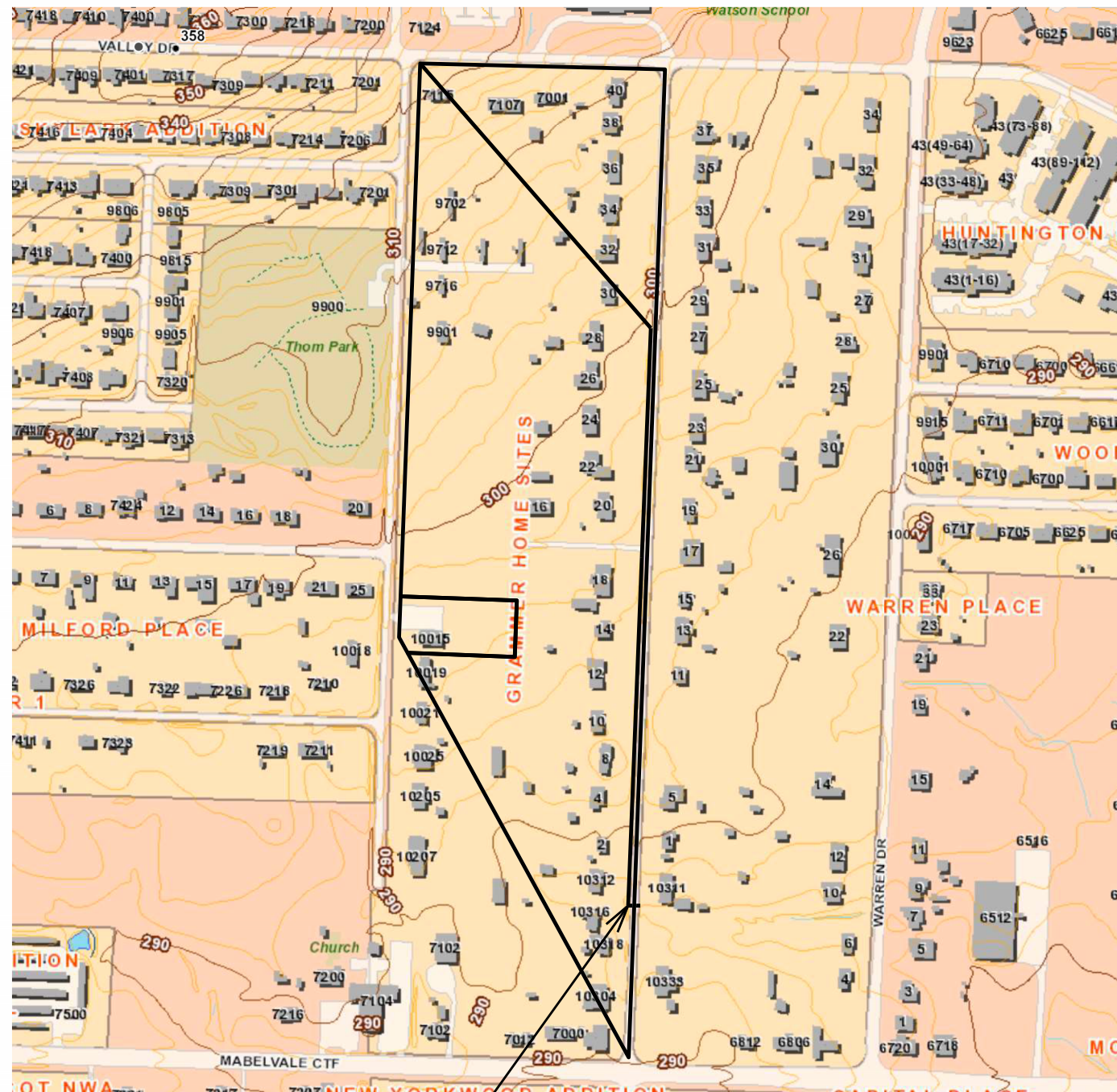


NOTE: CONTRACTOR TO MAINTAIN POSITIVE FLOW OF WATER OVER SIDEWALK INTO THE DITCH.



03 - VALLEY_PLAN AND PROFILE.DGN CREATED: 3/12/2024 3:20:24 PM SAVED: 3/20/2024 10:00:00 AM

PRELIMINARY
SUBJECT TO REVISION



CD-1

DRAINAGE CRITERIA

BASIS: CITY OF LITTLE ROCK STORMWATER MANAGEMENT AND DRAINAGE MANUAL

RATIONAL METHOD $Q=CIA$
 Q =STORM DRAINAGE DISCHARGE (cfs) AT DESIGN POINT
 C =RUNOFF COEFFICIENT
 I =DESIGN STORM INTENSITY (IN/HR)
 A =DRAINAGE AREA (ACRES)

RUNOFF COEFFICIENT: 0.45 (RESIDENTIAL - TABLE 2.1)
0.33 (CLAY - TABLE 2.2)

STORM FREQUENCY: 25 YEARS

MANNINGS COEFFICIENT: $N=0.30$ - OVERLAND GRASS
 $N=0.18$ - CANAL DITCH

DESIGN POINT	RUNOFF COEFF. "C"	AREA "A" (ACRES)	TIME OF CONC. (min)	INTENSITY I25 (in/hr)	DISCHARGE Q25 (cfs)
CD-1	0.43	32.82	84.00	2.80	39.88