

LEGEND/ABBREVIATIONS

- RP ROOF PARAPET
- GBS GAS (BLUE STAKE)
- I INVERT OF DRAIN PIPE
- RM RIM OF DRAIN
- R RIDGE
- TW TOP OF WALL
- TF TOP OF FOOTING
- TRW TOP OF RETAINING WALL
- TVF TOP OF VIEW FENCE
- P PATIO
- SW SIDEWALK
- D DRIVEWAY
- G GROUND
- L.F. LOWEST FINISHED FLOOR
- EX. EXISTING
- C CONCRETE
- S SANITARY SEWER
- WM WATER METER
- EX. CURB EX. CURB
- CATV CABLE TELEVISION BOX
- TEL TELEPHONE BOX
- PATH OF DRAINAGE
- CONTOUR OF FINISHED GRADE
- INDICATES DIRECTION OF RUNOFF
- PROPOSED ELEVATION
- EXISTING ELEVATION
- ⊕ FIRE HYDRANT
- ⊕ EXISTING CONTOURS
- ⊕ NATIVE PLANT NUMBER
- ⊕ PROPERTY LINE
- ⊕ BUILDING ENVELOPE PLAT
- ⊕ REFERENCE TO ARCHITECTS DETAIL
- ⊕ BUILDING ENVELOPE REVISED & N.O.S. BOUNDARY
- ⊕ WATER METER
- ⊕ CABLE RISER
- ⊕ TELEPHONE RISER
- ⊕ TELCOM
- ⊕ ELECTRIC BOX
- ⊕ TRANSFORMER PAD
- ⊕ IRRIGATION BOX
- ⊕ POOL EQUIPMENT

RETENTION REQUIRED

RETENTION PROVIDED FOR 100-YEAR 2 HOURS EVENT.
 AREA = 50,548 SQ. FT.
 C = 0.65
 I = 2.2 IN/HR
 RETENTION AREA REQUIRED = 0.65 X 2.2 X 50,548 / 12 = 6,024 CU. FT.

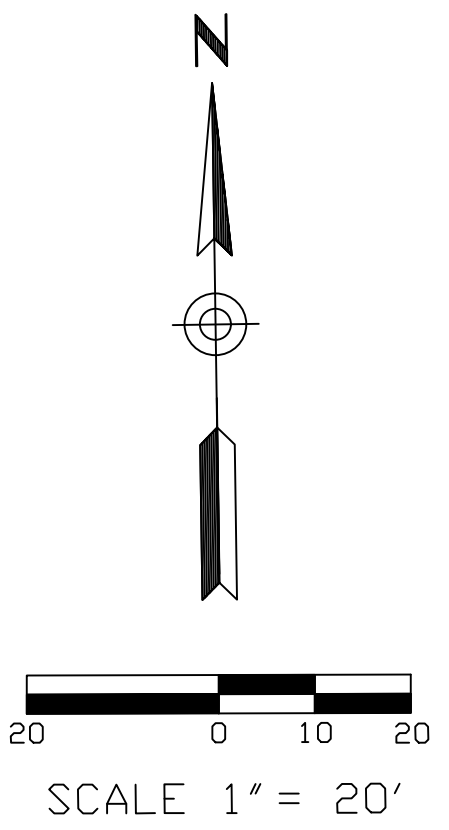
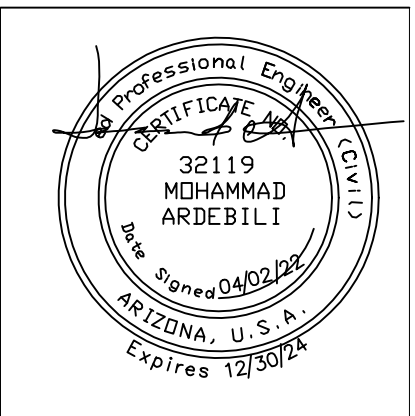
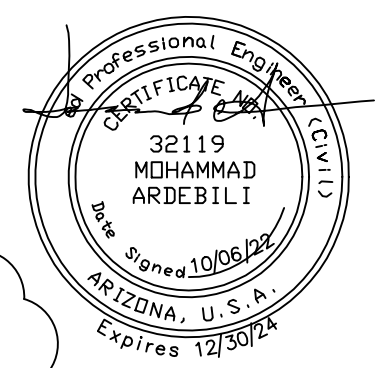
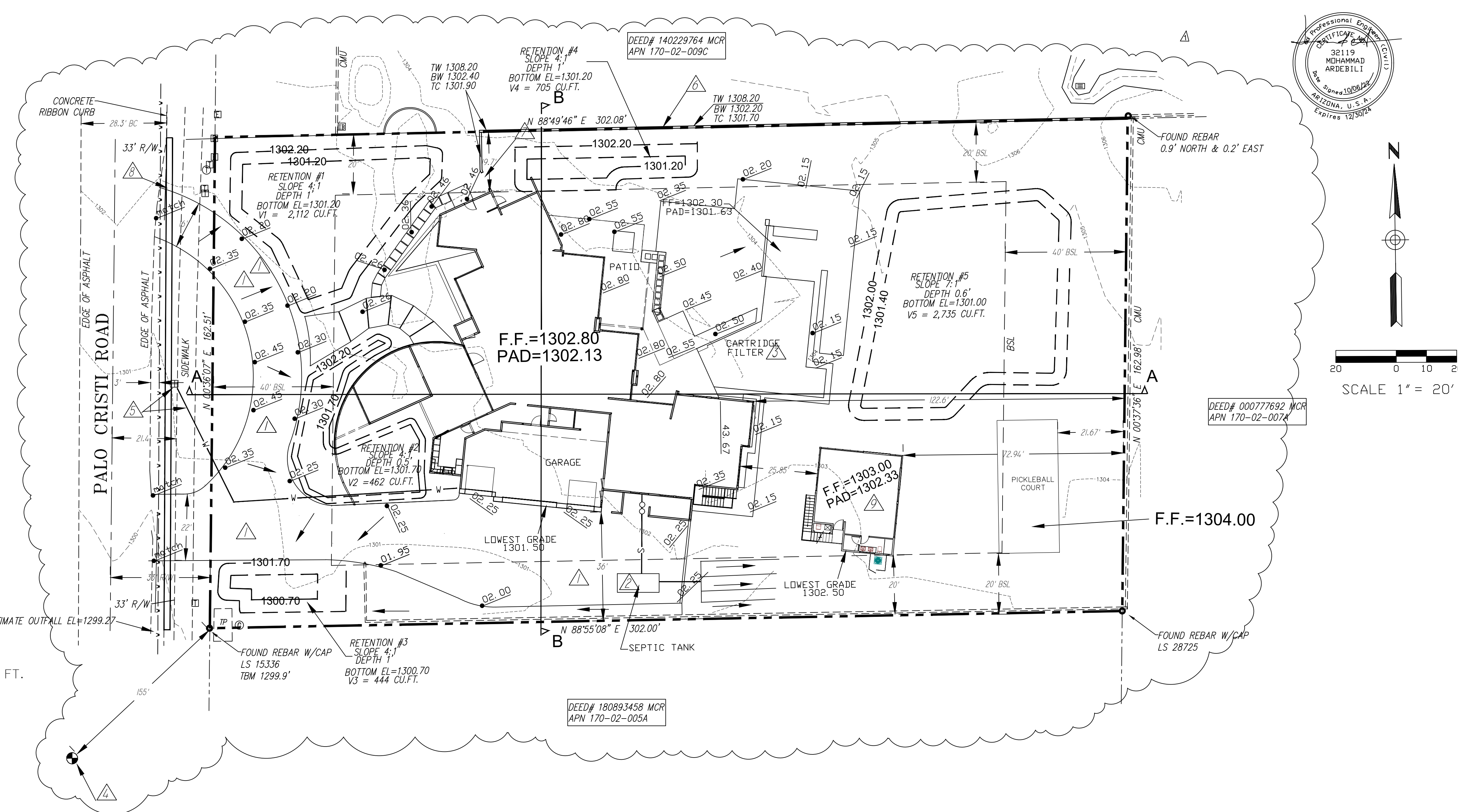
RETENTION PROVIDED

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 V1 = (2,531 + 1,694) / 2 = 2,112 CU.FT.
 V2 = (1,123 + 728) / 4 = 462 CU.FT.
 V3 = (628 + 260) / 2 = 444 CU.FT.
 V4 = (979 + 432) / 2 = 705 CU.FT.
 V5 = (4,540 + 3,530) (0.6) / 2 = 2,421 CU.FT.

V TOTAL = 6,144 CU.FT. < 6,024 CU.FT. OK

NOTE:

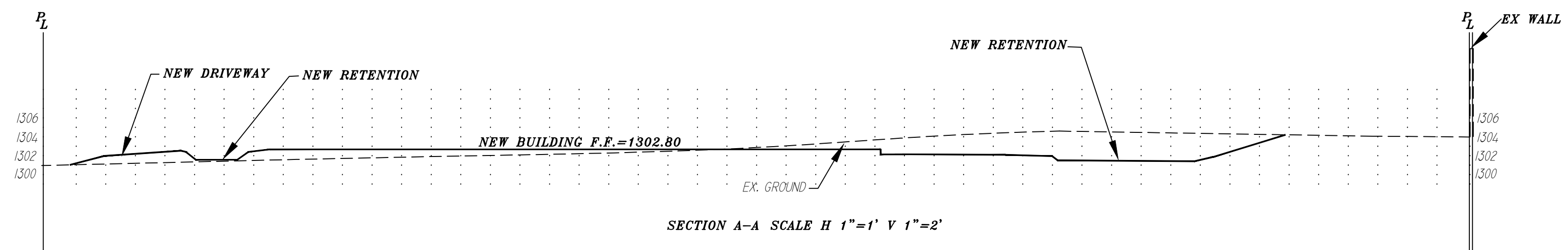
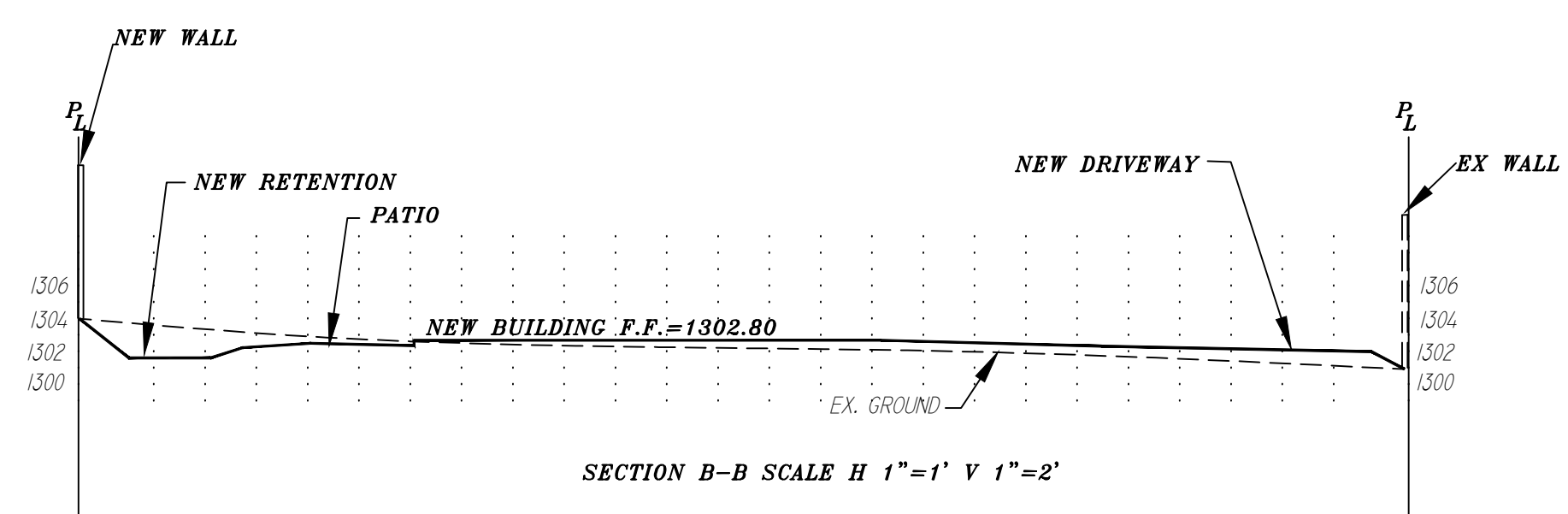
- △ NEW CONCRETE DRIVEWAY
- △ NEW SPETIC TANK WITH 4" SEWER LINE TO NEW BUILDING BY OTHERS
- △ POOL BY OTHERS
- △ EXISTING FIRE HYDRANT
- △ EXISTING 3/4" WATER METER UP GRADE TO 1" METER WITH 2" LINE TO THE BUILDING
- △ NEW 6' HIGH SCREEN WALL
- △ 3' GATE
- △ 2' RIBBON CURB PER MAG STD DET 220-1 TYPE B UNDER SEPARATE PERMIT
- △ GUEST HOUSE



GRADING AND DRAINAGE PLAN
 5815 N PALO CRISTI ROAD
 PARADISE VALLEY, AZ 85253

PAV CIVIL ENGINEERING

P.O. BOX 285115
 SCOTTSDALE, AZ 85255
 (480)367-8442



DATE	REVISIONS
10/6/22	HOUSE HAS BEEN ROTATED
	RV GARAGE IS MOVED
	GUEST HOUSE ADDED
	RETENTION LOCATION REVISED

job number: 21-19
 date: 03-29-2021
 SHEET NO. C-2
 2 of 2

PERMIT # BD21-44240