

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

September 8, 2022

David Thompson, PE
Thompson Engineering Consultants, Inc.
PO Box 65760
Albuquerque, NM 87193

RE: Ventana Square Subdivision
Engineer's Certification Date: 08/09/22
Engineer's Stamp Date: 05/17/22
Hydrology File: B10D003C3
CPN: 670982

Dear Mr. Thompson:

PO Box 1293

Based on the Certification received 09/07/2022 and site visit on 9/07/22, this certification is approved in support of ROFG/SIA by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

NM 87103

www.cabq.gov

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE MASTER PLAN
- _____ DRAINAGE REPORT
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ OTHER (SPECIFY) _____
- _____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ SO-19 APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ GRADING/ PAD CERTIFICATION
- _____ WORK ORDER APPROVAL
- _____ CLOMR/LOMR
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

VENTANA SQUARE AS-BUILT POND VOLUME
SEPTEMBER 6, 2022

VITTORIA SUBDIVISION EXCAVATED RETENTION POND

ELEVATION	AREA (SF)	INC. VOLUME (CF)	CUM. VOLUME (CF)	CUM. VOLUME (AC-FT)
5402	0	0	0	0.0000
5403	4749	2375	2375	0.0545
5404	17593	11171	13546	0.3110
5405	21505	19549	33095	0.7597
5406	29440	25473	58567	1.3445
5407	34729	32085	90652	2.0811
5408	39493	37111	127763	2.9330
5409	43923	41708	169471	3.8905
5410	55774	49849	219319	5.0349
5411	64836	60305	279624	6.4193
5412	69363	67100	346724	7.9597

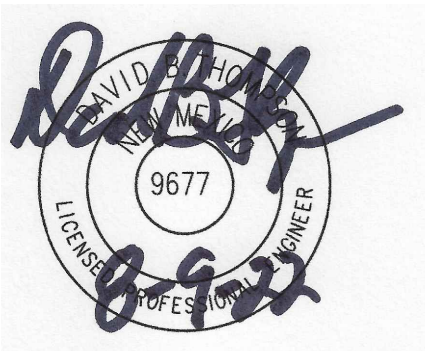
TOTAL 100-YEAR, 10-DAY RUNOFF VOLUME IS 7.25 ACRE-FEET.

THE 100-YEAR, 10-DAY WSEL = 5411.48

TOP OF POND ELEVATION IS 5412.50, SO THERE IS 1.02 FEET OF FREEBOARD

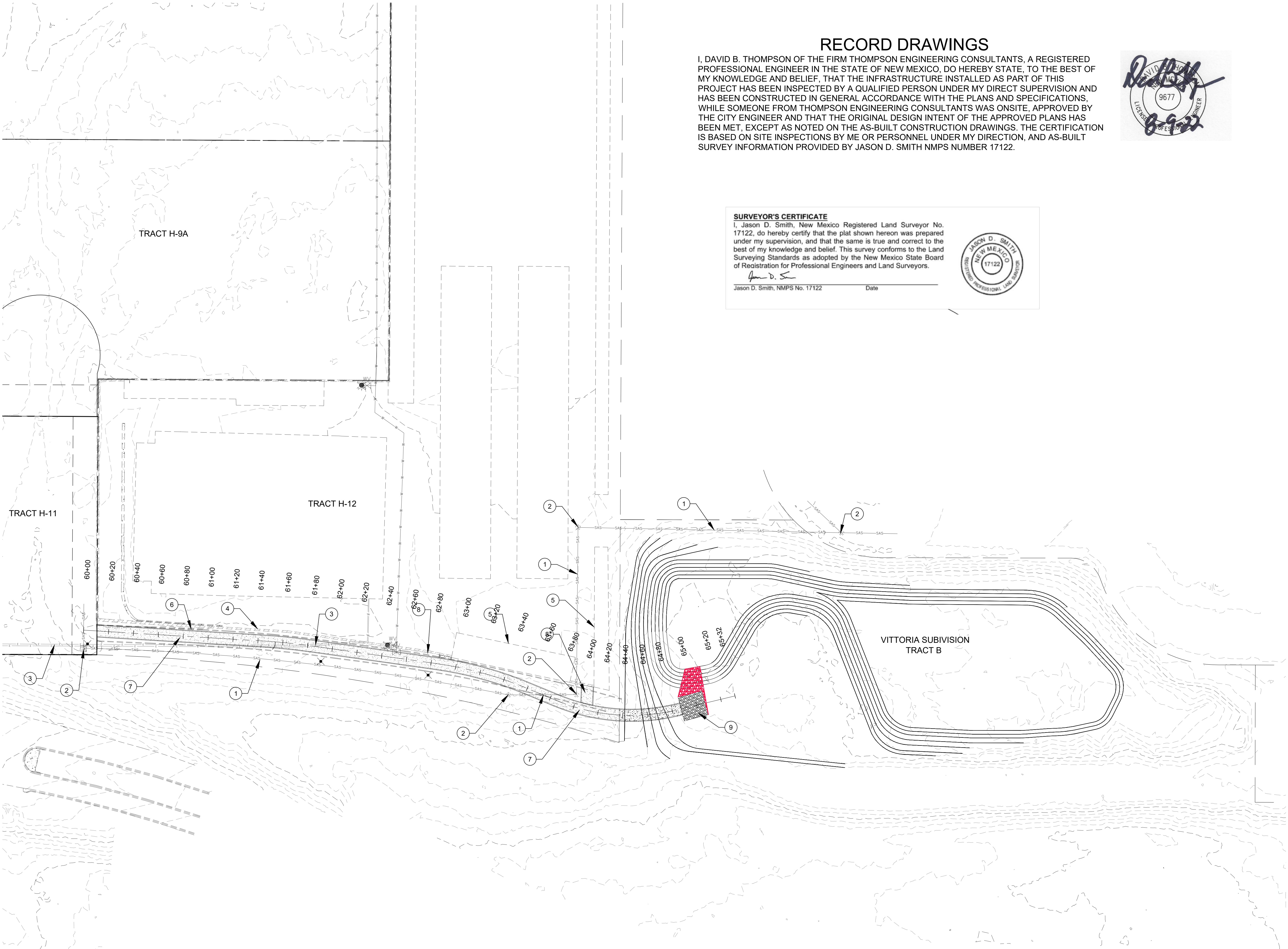
RECORD DRAWINGS

I, DAVID B. THOMPSON OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY STATE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN GENERAL ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, WHILE SOMEONE FROM THOMPSON ENGINEERING CONSULTANTS WAS ONSITE, APPROVED BY THE CITY ENGINEER AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED ON THE AS-BUILT CONSTRUCTION DRAWINGS. THE CERTIFICATION IS BASED ON SITE INSPECTIONS BY ME OR PERSONNEL UNDER MY DIRECTION, AND AS-BUILT SURVEY INFORMATION PROVIDED BY JASON D. SMITH NMPS NUMBER 17122.



SURVEYOR'S CERTIFICATE
I, Jason D. Smith, New Mexico Registered Land Surveyor No. 17122, do hereby certify that the plat shown hereon was prepared under my supervision, and that the same is true and correct to the best of my knowledge and belief. This survey conforms to the Land Surveying Standards as adopted by the New Mexico State Board of Registration for Professional Engineers and Land Surveyors.

Jason D. Smith
Jason D. Smith, NMPS No. 17122 Date _____

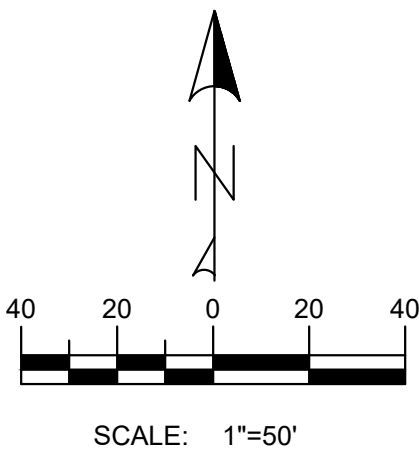


GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY ALL UTILITES PRIOR TO CONSTRUCTION.
- FOR DRAINAGE DETAILS SEE SHEET 29
- POND SLOPES TO BE STABILIZED WITH NATIVE GRASS SEED WITH AGGREGATE MULCH OR EQUAL (MUST SATISFY THE "FINAL STABILIZATION CRITERIA" CGP22.14.b)
- CONCRETE CHANNEL TO BE PRIVATELY MAINTAINED.

KEYED NOTES:

- EXISTING 8" SAS
- EXISTING SEWER MAN HOLE
- EXISTING ELECTRICAL LINE
- EXISTING WALL
- EXISTING STOARGE BUILDING
- EXISTING 10-FOOT WIDE ASHALT CHANNEL TO BE REMOVED AND DISPOSED
- INSTALL CONCRETE CHANNEL PER DETAIL ON SHEET 29
- INSTALL 5-FOOT WIDE SIDE INLET CHANNEL
- INSTALL 15' X20' RIRAP OUTFALL



Thompson
Engineering
Consultants, Inc.
tecnm@yahoo.com

P.O. BOX 65760 PHONE: (505) 271-2199
ALBUQUERQUE, NM 87193 FAX: (505) 830-9110

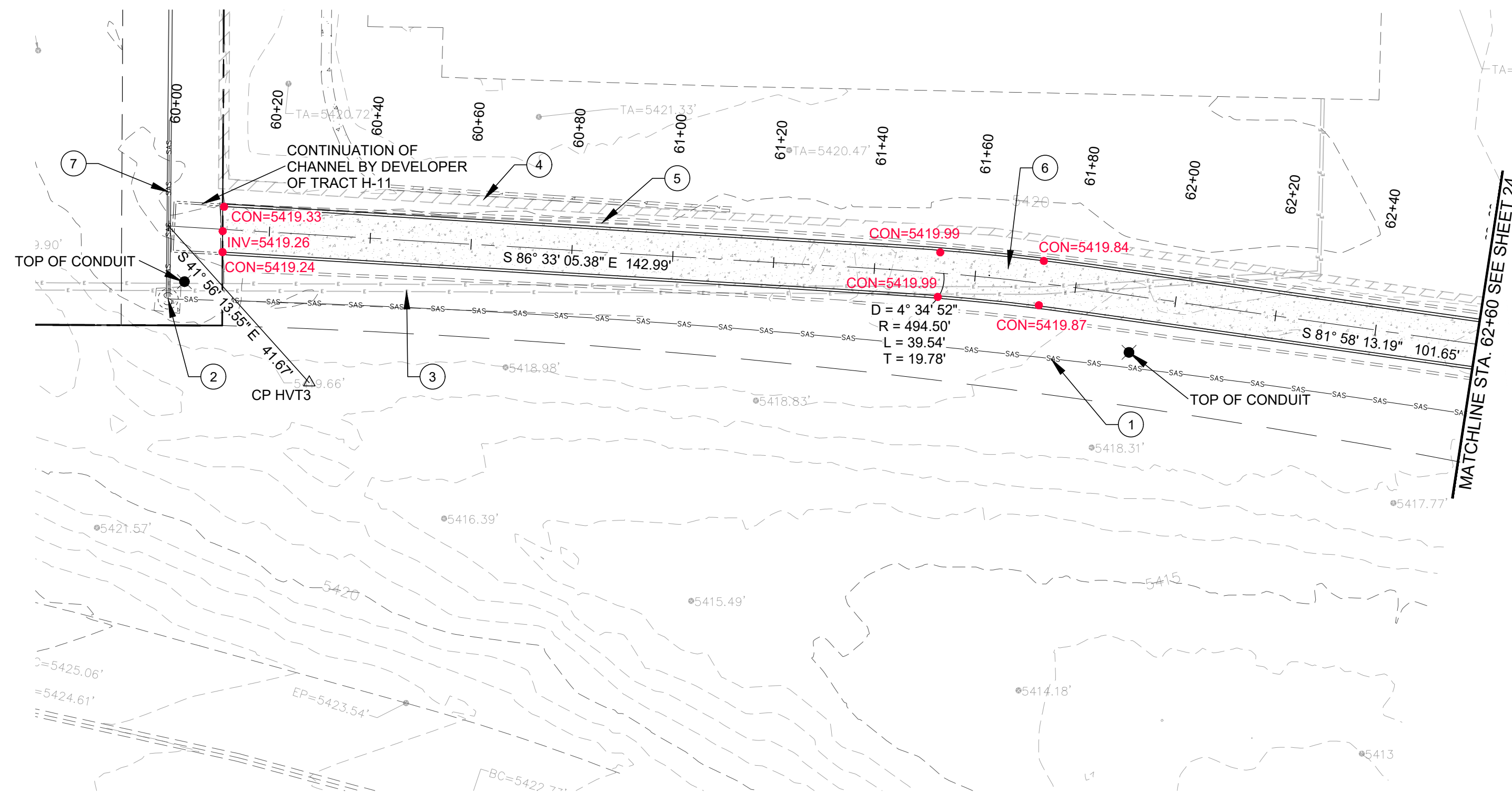
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE		CONTRACTOR	FRANKLINS EARTH MOVING
						WORK	HUITT-ZOLLARS
						ACCEPTED BY	8/2022
						INSPECTORS	HUITT-ZOLLARS
						IN ACCEPTANCE BY	TIM SIMS COA
						FIELD VERIFICATION BY	8/2022
						DRAWINGS	HUITT-ZOLLARS
						CORRECTED BY	THOMPSON ENGINEERING CONS 8/2022
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO.	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

VENTANA SQUARE
OVERALL DRAINAGE IMPROVEMENTS

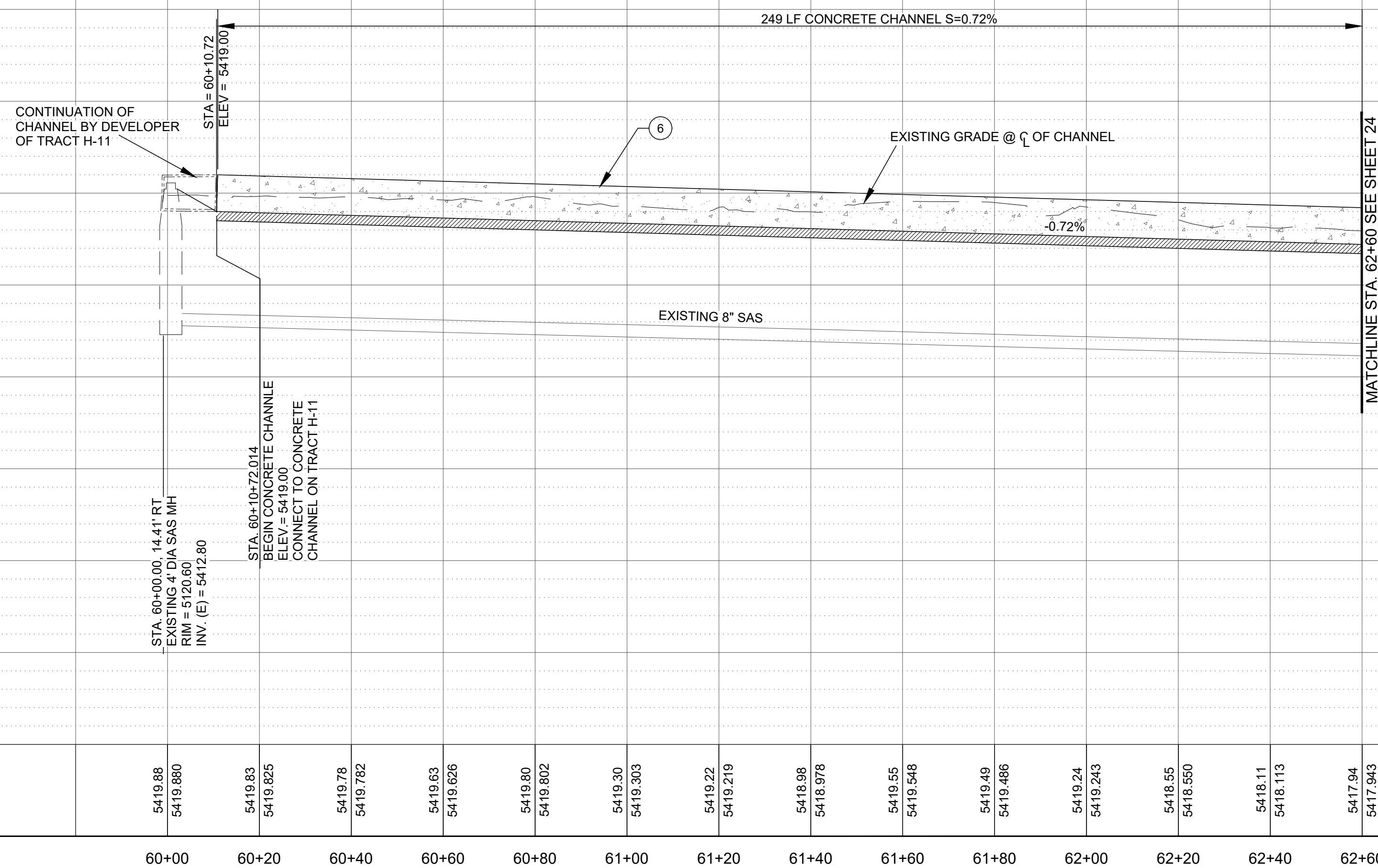
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
Approved by Albuquerque City Engineer and Design Review Committee, Jan. 27, 2022			

City Project No. 670982	Zone Map No. B-10-Z	Sheet 22	Of 30
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DRAINAGE CHANNEL IMPROVEMENTS STA. 60+00 TO STA. 62+60

SCALE
1" = 20' (HOR)
1" = 5' (VER)



KEYED NOTES:

- ① EXISTING 8" SAS
- ② EXISTING SEWER MAN HOLE
- ③ EXISTING ELECTRICAL LINE
- ④ EXISTING WALL
- ⑤ STA. 60+10 TO STA. 64+40
REMOVE AND DISPOSE 10-FOOT WIDE
ASPHALT CHANNEL
- ⑥ STA. 60+10.72 TO STA.
INSTALL CONCRETE CHANNEL PER
DETAIL ON SHEET 29
INCLUDING CHANNEL EXCAVATION
AND SUBGRADE COMPACTION
- ⑦ PROPOSED 8" SAS

ENGINEER'S SEAL										SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
										FIELD NOTES				ACS MONUMENT 13-B10				CONTRACTOR FRANKLIN'S EARTH MOVING			
										NO.		BY		DATE		NAD 1983 CENTRAL ZONE				WORK STAKED BY HUIITT-ZOLLARS 8/2022	
												Y= 14587757.7 *		INSPECTORS HUIITT-ZOLLARS 8/2022							
		NO.		DATE		REMARKS		BY				X= 15255618.319 *		FIELD VERIFICATION BY HUIITT-ZOLLARS 8/2022							
												Z= 5424.81 *		DRAWINGS PREPARED BY THOMPSON ENGINEERING CONS. 8/2022							
						DESIGN						G-G= 0.999667778		MICRO-FILM INFORMATION							
		DESIGNED BY		DATE								MAPPING ANGLE = 0° 16' 30.69"		RECORDED BY							
		DRAWN BY		DATE										DATE							
		CHECKED BY		DATE								*U.S. SURVEY FEET		NO.							

STA. 60+00 TO STA. 62+60	
MO./DAY/YR.	MO./DAY/YR.

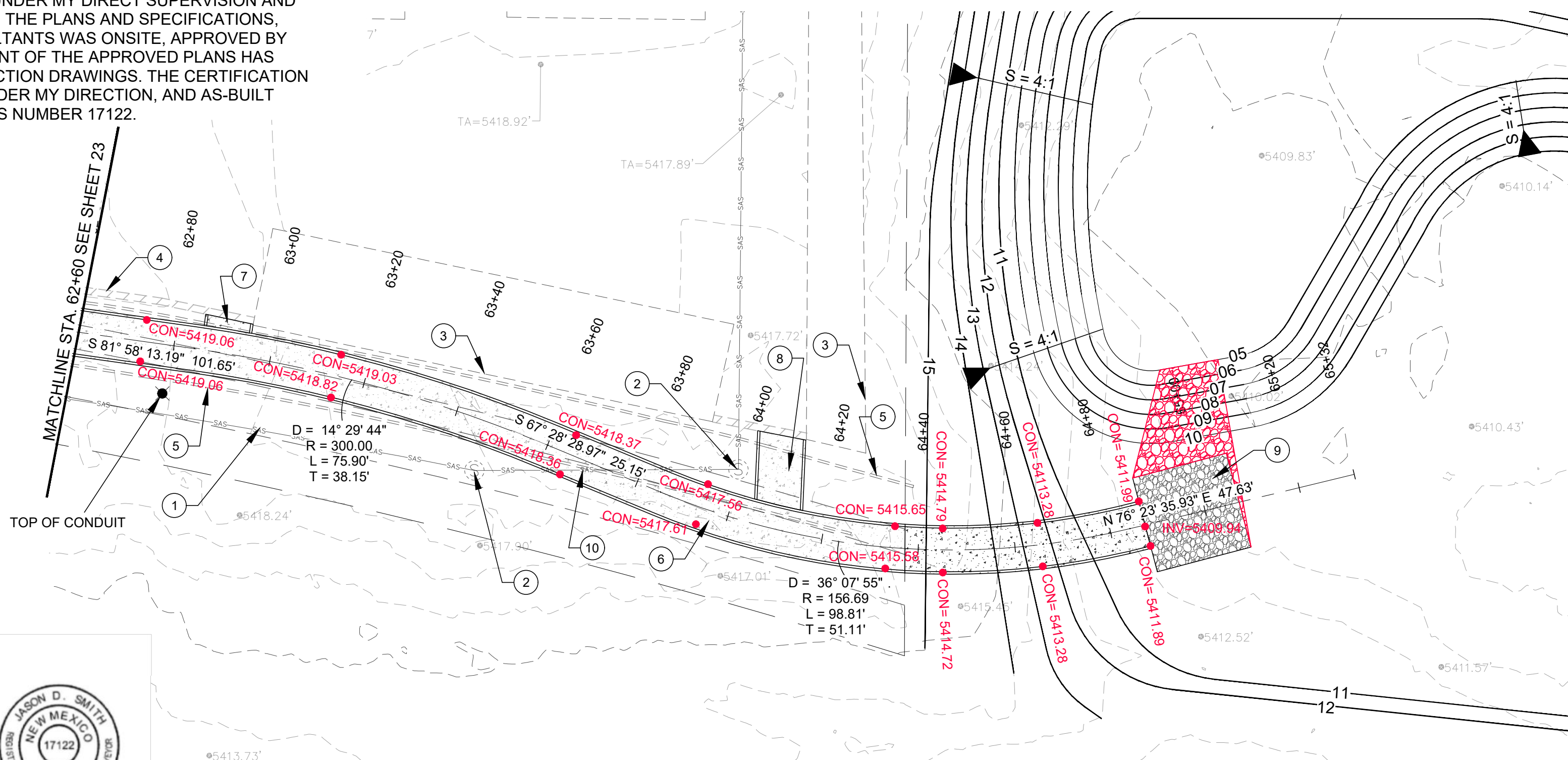
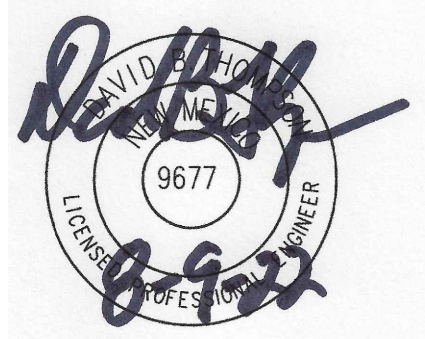
Sheet Of

23

30

RECORD DRAWINGS

I, DAVID B. THOMPSON OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY STATE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE INSTALLED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN GENERAL ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, WHILE SOMEONE FROM THOMPSON ENGINEERING CONSULTANTS WAS ONSITE, APPROVED BY THE CITY ENGINEER AND THAT THE ORIGINAL DESIGN INTENT OF THE APPROVED PLANS HAS BEEN MET, EXCEPT AS NOTED ON THE AS-BUILT CONSTRUCTION DRAWINGS. THE CERTIFICATION IS BASED ON SITE INSPECTIONS BY ME OR PERSONNEL UNDER MY DIRECTION, AND AS-BUILT SURVEY INFORMATION PROVIDED BY JASON D. SMITH NMPS NUMBER 17122.



DRAINAGE CHANNEL

SURVEYOR'S CERTIFICATE

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Jason D. Smith, NMPS No. 17122 Date



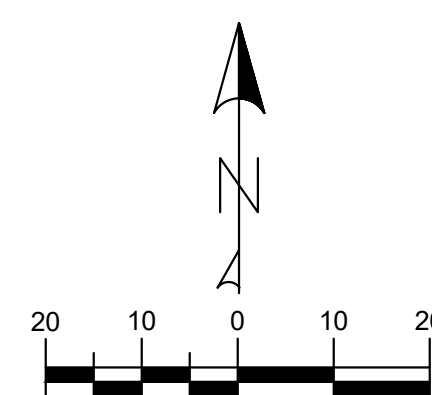
SCALE
1" = 20' (HOR)
1" = 5' (VER)

[illegible]

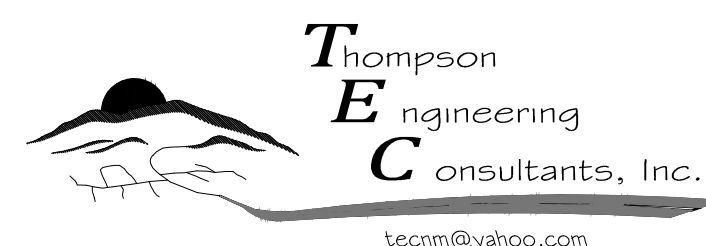
KEYED NOTES:

- ① EXISTING 8" SAS
- ② EXISTING SEWER MAN HOLE
- ③ EXISTING STORAGE BUILDING
- ④ EXISTING WALL
- ⑤ STA. 60+10.72 TO STA. 64+40
REMOVE AND DISPOSE 10-FOOT WIDE ASPHALT CHANNEL
- ⑥ STA. 60+10.72 TO STA. 65+12
INSTALL CONCRETE CHANNEL
PER DETAIL ON SHEET 29
INCLUDING CHANNEL EXCAVATION
AND SUBGRADE COMPACTION
- ⑦ STA. 62+80 TO STA. 62+90. 5.00 LT
INSTALL 10-FOOT WIDE SIDE INLET
CHANNEL PER DETAIL ON SHEET 29
- ⑧ STA. 64+04 TO STA. 64+14. 5.00 LT
INSTALL 10-FOOT WIDE SIDE INLET
CHANNEL PER DETAIL ON SHEET 29
- ⑨ STA. 65+12 TO STA 65+32
INSTALL 15' X20' RIRAP OUTFALL
PER DETAIL ON SHEET 29
- ⑩ PERFORM VIDEO INSPECTION OF
EXISTING SAS LINE BETWEEN EXISTING
MANHOLES WHERE CONCRETE CHANNEL
CROSSES THE SAS BEFORE AND AFTER
CONSTRUCTION OF CHANNEL

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES						
NO.	BY	DATE				
			ACS MONUMENT 13-B10		CONTRACTOR FRANKLINS EARTH MOVING	
			NAD 1983 CENTRAL ZONE		WORK STAKED BY HUITT-ZOLLARS 8/2022	
			X= 1497757.7 *		ACCEPTED BY TIM SIMS COA 8/2022	
			Y= 1525618.319 *		FIELD VERIFICATION BY HUITT-ZOLLARS 8/2022	
			Z= 5424.81 *		CORRECTED BY THOMPSON ENGINEERING CONS 8/2022	
			G-G= 0.999867778		MICRO-FILM INFORMATION	
			MAPPING ANGLE = 0° 16' 30.68"		RECORDED BY DATE	
			*U.S. SURVEY FEET		NO.	

[illegible]

SCALE: 1"=20'



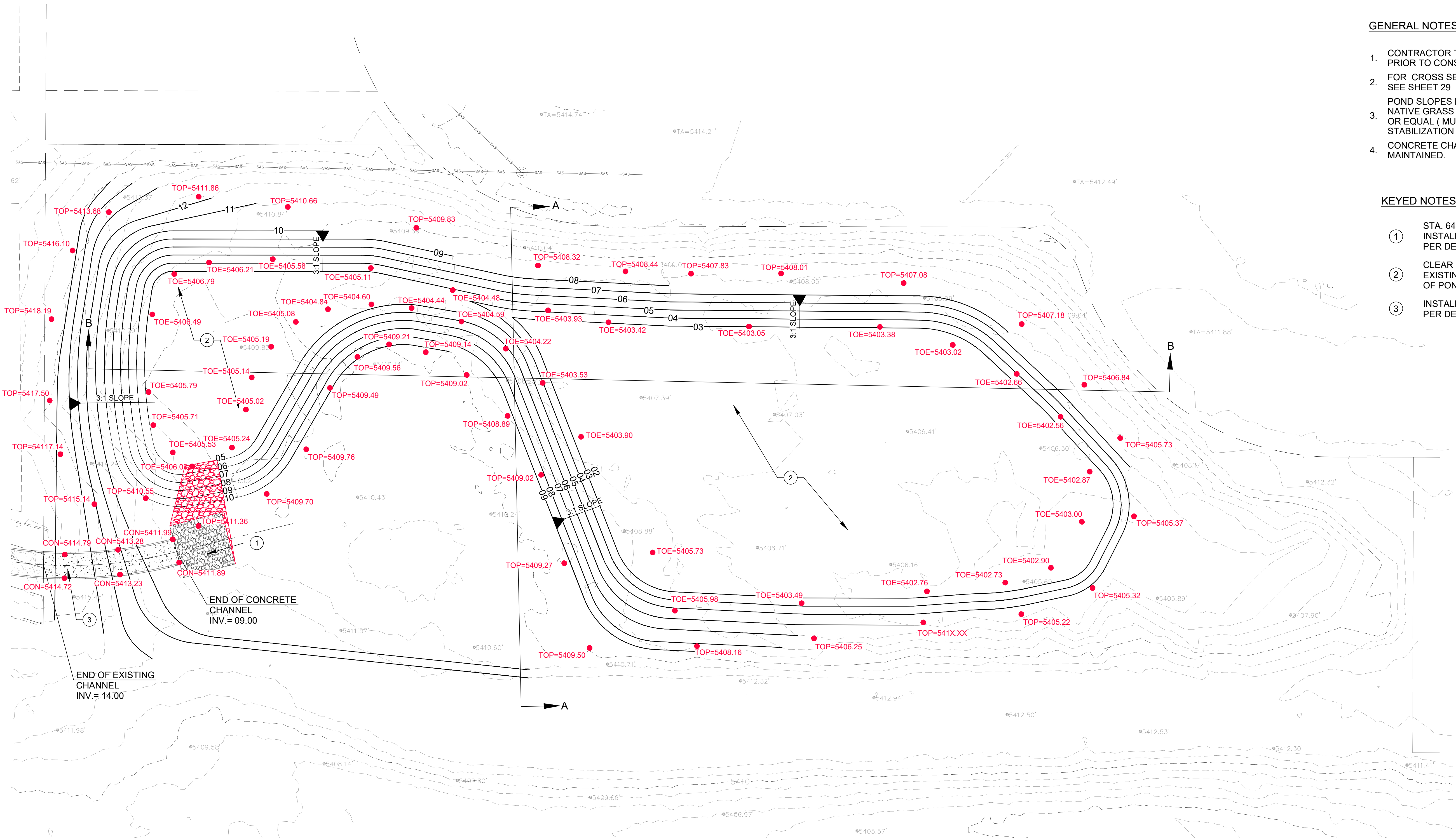
P.O. BOX 65760 PHONE: (505) 271-2199
ALBUQUERQUE NM 87193 FAX: (505) 830-9988

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

VENTANA SQUARE
DRAINAGE CHANNEL IMPROVEMENTS STA. 62+60 TO STA. 65+40

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
Approved by Albuquerque City Engineer and Design Review Committee, Jan. 27, 2022				

City Project No.	Zone Map No.	Sheet	Of
670982	B-10-Z	24B	30



GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY ALL UTILITES PRIOR TO CONSTRUCTION.
- FOR CROSS SECTIONS & DRAINAGE DETAILS SEE SHEET 29
- POND SLOPES NEED TO BE STABILIZED WITH NATIVE GRASS SEED WITH AGGREGATE MULCH OR EQUAL (MUST SATISFY THE "FINAL STABILIZATION CRITERIA" CGP22.14.b)
- CONCRETE CHANNEL TO BE PRIVATELY MAINTAINED.

KEYED NOTES:

- STA. 64+87.27 TO STA. 65+07
INSTALL 20"x20" RIPRAP OUTFALL
PER DETAIL SHEET 29
- CLEAR AND GRUB BOTTOM OF EXISTING
POND EXCAVATE BOTTOM
OF POND TO ELEVATION SHOWN
- INSTALL CONCRETE CHANNEL
PER DETAIL ON SHEET 29

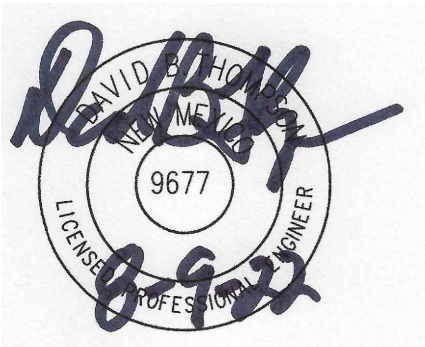
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT TRANSPORTATION DEVELOPMENT			
VENTANA SQUARE RETENTION POND IMPROVEMENTS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY.YR.	MO./DAY.YR.
Approved by Albuquerque City Engineer and Design Review Committee, Jan. 27, 2022			
City Project No. 670982	Zone Map No. B-10-Z	Sheet 25R	Of 30