

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

December 21, 2020

David Thompson
Thompson Engineering Consultants, Inc.
P.O. Box 65760
Albuquerque, NM 87190

RE: **Hawking Drive SE ROW**
Grading and Drainage Plan Stamp Date: 4/28/21
Drainage File: Q16DA006A

Dear Mr. Thompson:

Based on the submittal received on 5/4/21, the Grading and Drainage Plan is approved for Grading Permit and Work Order.

PO Box 1293

Please note, at DRC a note must be added to the pond grading sheet stating that pond slopes are to be stabilized with "Native Grass Seed with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.).

Albuquerque

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



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:

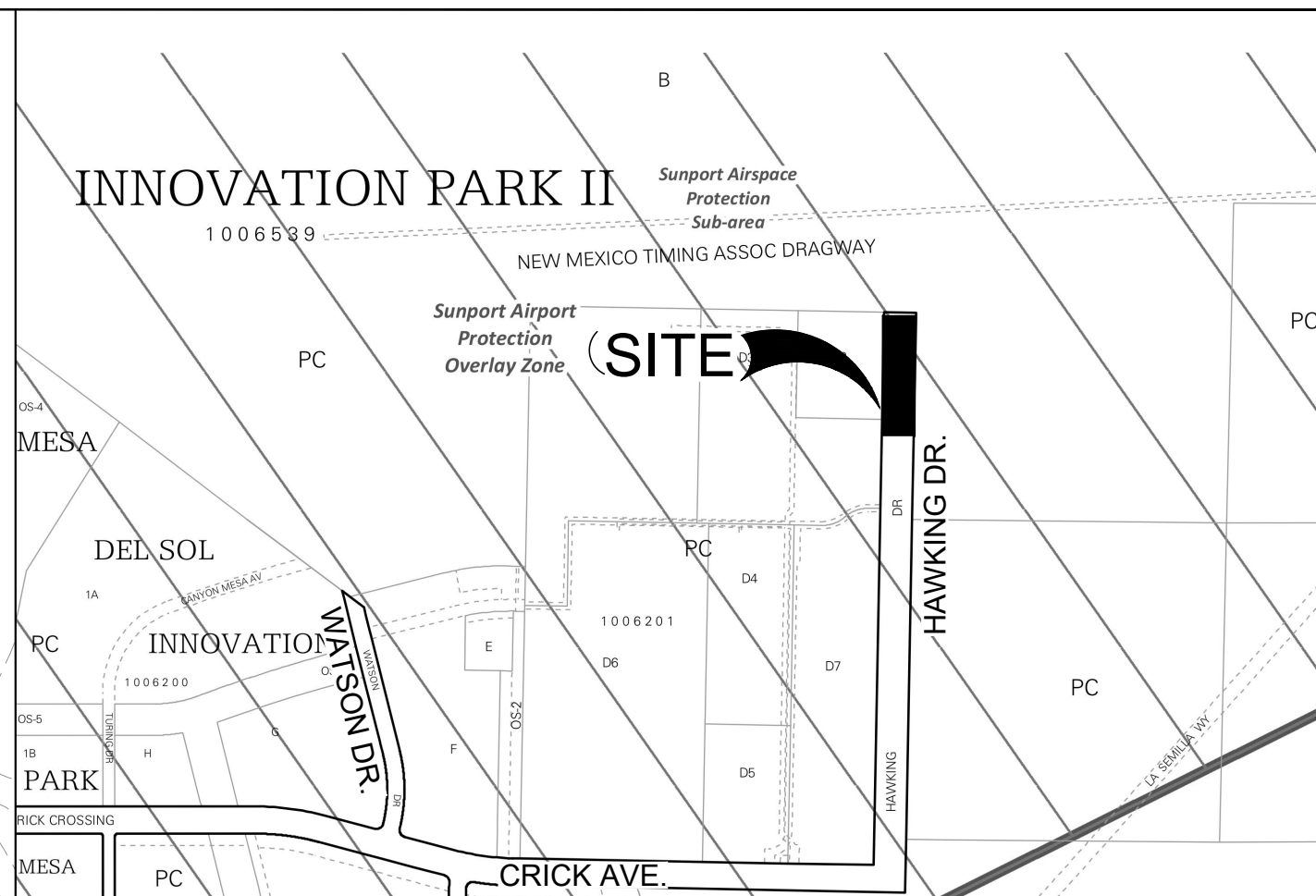
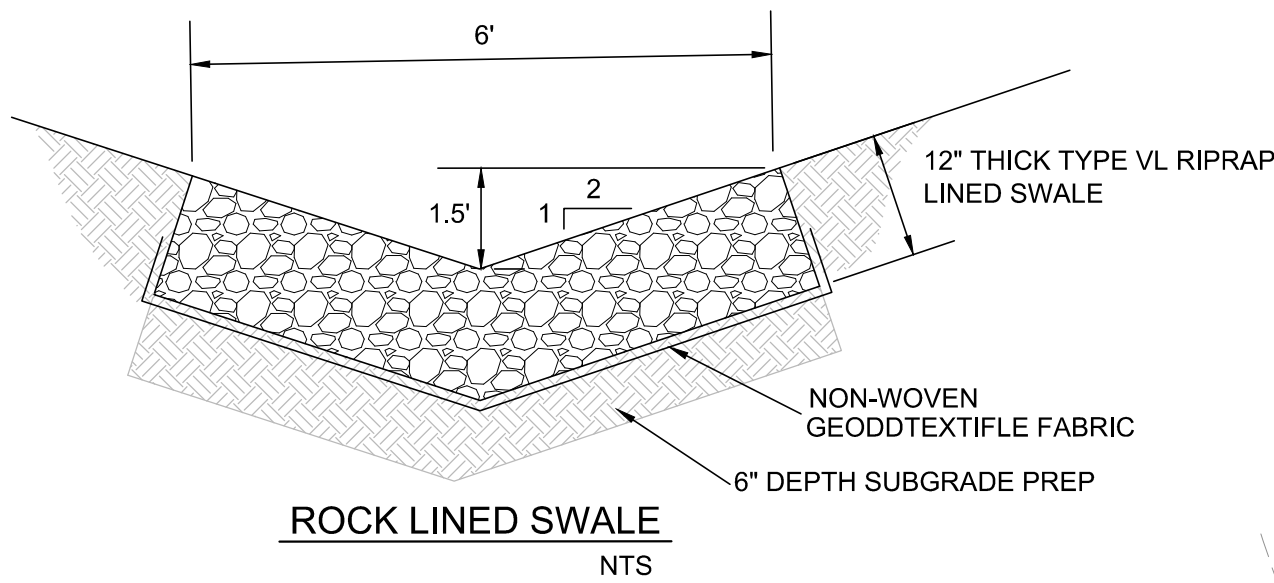
- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING 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:

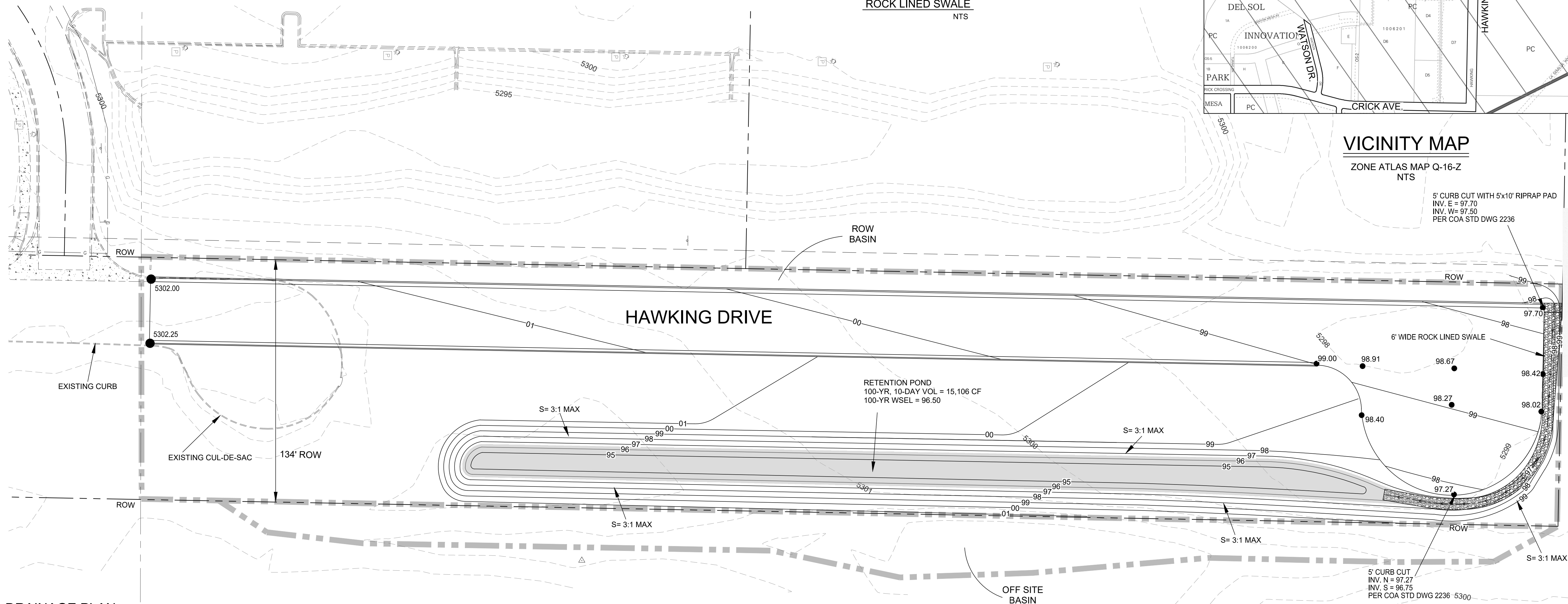
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



VICINITY MAP

ZONE ATLAS MAP Q-16-Z
NTS



THIS PROJECT INVOLVES THE CONSTRUCTION OF THE NORTHERN HALF STREET SECTION OF HAWKING DRIVE. THE STREET SECTION DRAINS TO THE NORTH FROM THE EXISTING STREET SECTION. THE RUNOFF FROM THE STRETT SECTION AND THE UNDEVELOPED PORTION OF THE RIGHT-OF-WAY WILL DRAIN TO A RETENTION POND WITHIN THE HAWKING DRIVE RIGHT-OF-WAY ALONG THE SOUTH RIGHT-OF-WAY LINE. THE STREET WILL DRAIN TO THE NORTHWEST TO A FIVE-FOOT WIDE CURB OPENING TO A ROCK-LINED SWALE. AT THE NORTH END OF THE STREET IS A TEMPORARY CUL-DE-SAC THAT DRAINS FROM WEST TO EAST TO ANOTHER CURB OPENING THAT WILL DRAIN THE ROCK-LINED SWALE. THE ROCK-LINED SWALE WILL CONVEY THE RUNOFF FROM THE STREET AND CUL-DE-SAC TO A RETENTION POND LOCATED ALONG THE SOUTH RIGHT-OF-WAY LINE JUST SOUTH OF THE CUL-DE-SAC. THE RETENTION POND HAS A 100-YEAR, 10-DAY VOLUME OF 15,106 CUBIC-FEET. THE DEPTH OF THE POND WILL BE A MAXIMUM OF 1.5 FEET. THE TOP OF THE POND WATER SURFACE WILL BE TEN FEET FROM THE PROPOSED PUBLIC SANITARY SEWER LINE. THE FIRST FLUSH FROM THE IMPERVIOUS AREA OF THE STREET WILL BE RETAINED IN THE RETENTION POND.

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10-day) (acre-ft)	V(10-day) (cu-ft)	Q (cfs)
		EXISTING CONDITIONS									
ROW	2.3256	94.50	0.00	0.00	5.50	0.71	0.14	6,028	0.15	6,645	4.31
Offsite	0.3535	100.00	0.00	0.00	0.00	0.62	0.02	796	0.02	796	0.60
TOTAL RUNOFF	2.68						0.16	6,824	0.17	7,441	4.92
FULL DEVELOPMENT CONDITIONS											
ROW	2.3256	0.00	68.70	0.00	31.30	1.28	0.25	10,796	0.33	14,311	6.93
Offsite	0.3535	100.00	0.00	0.00	0.00	0.62	0.02	796	0.02	796	0.60
TOTAL RUNOFF	0.35						0.27	11,592	0.35	15,106	7.53
EXCESS PRECIP.		0.62	0.8	1.03	2.33	E _i (in)					
PEAK DISCHARGE		1.71	2.36	3.05	4.34	Q _h (cfs)					

ZONE = 2

WEIGHTED E (in) = (E_a)(%)A + (E_b)(%)B + (E_c)(%)C + (E_d)(%)D

V_{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12

V_{10day} (acre-ft) = V_{6hr} + (A_o)(P_{10day} - P_{6hr})/12

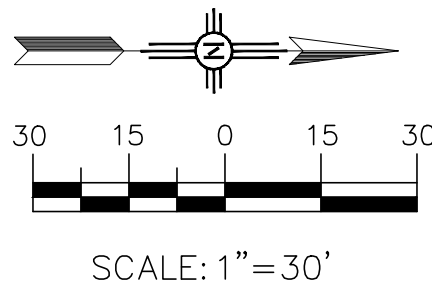
Q (cfs) = (Q_{na})(A_a) + (Q_{nb})(A_b) + (Q_{nc})(A_c) + (Q_{nd})(A_d)

P_{6hr} (in) = 2.29

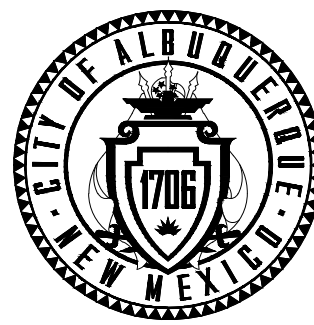
P_{24hr} (in) = 2.59

P_{10day} (in.) = 3.62

--- 00 --- EXISTING CONTOURS
 — 00 — PROPOSED CONTOURS
 ● 98.91 PROPOSED SPOT ELEVATION
 === PROPOSED CURB AND GUTTER
 ■■■■■ BASIN BOUNDARY
 ■■■■■ PROPOSED PONDING



CALL NM ONE-CALL SYSTEM
SEVEN (7) DAYS PRIOR TO
ANY EXCAVATION



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

MESA DEL SOL, INNOVATION PARK
HAWKING DRIVE
POND GRADING AND DRAINAGE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	ZONE MAP NO. Q-16-Z
		CITY PROJECT NO. 393583
		SHEET NO. 1 OF 1