



July 19, 2017

Craig Hagelgantz, PE
ABQ Engineering Inc.
8102 Menaul Blvd NE, Suite D
Albuquerque, NM 87110

RE: **10800 Gibson SE (SSTP)**
Grading and Drainage Plan
Engineer's Stamp Date: Signed, undated
Hydrology File: M21D007A1

Dear Mr. Hagelgantz:

PO Box 1293

Based on the information provided in the submittal received on 7/18/17, the Grading and Drainage Plan cannot be approved for grading or paving permit until the following comments are addressed:

Albuquerque

New Mexico 87103

www.cabq.gov

1. The drainage plan and narrative must demonstrate compliance with the approved Drainage Report (M21D007A1, prepared by ABQ Engineering, 7/25/05) and Drainage Master Plan (M21D007A, prepared by BHI, 9/12/01). If this grading and paving work changes the runoff or drainage pattern, adequate downstream capacity per § 14-5-2-12 (G) of the Albuquerque Code of Ordinances must be demonstrated for the new runoff and drainage pattern. If this cannot be demonstrated, the site will need to retain all additional runoff (100yr, 10day design storm).
2. First flush volume needs to be determined from: (0.44"-0.10") x impervious area. The required first flush volume for this site will be based on only the new impervious area.
3. Provide the finished floor elevation for the building. The finished floor should be 1' above existing grades.
4. What is the 100yr water surface elevation for the pond and where does it overflow? Ensure the pond overfilling won't affect the adjacent building.
5. Provide additional spot elevations (top of asphalt) and grades for the proposed parking area to ensure the site will be constructed to drain away from the building.

CITY OF ALBUQUERQUE



6. Valley gutter is recommended (but not required) along the flowline of the parking area.
7. A private facility drainage covenant is required for the pond (see attached). Once filled out, this document will need to be turned in to Madeline Carruthers (mtafoya@cabq.gov, 4th floor, Plaza del Sol) for signature routing.
8. Date the plan. Hydrology tracks submittals and resubmittals by the Engineer's stamp date.
9. Request paving permit approval on the DTIS when resubmitting, Hydrology can approve for Grading and Paving Permit concurrently for no additional cost.
10. Only one hardcopy (and one pdf) is required for Hydrology submittals.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

PO Box 1293

Sincerely,

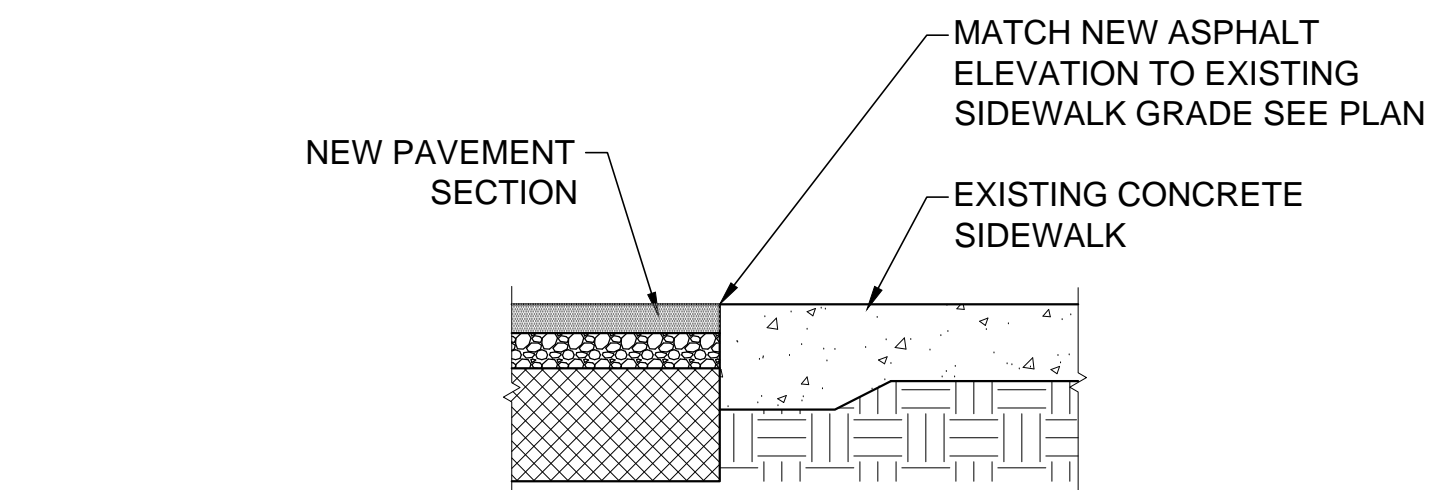
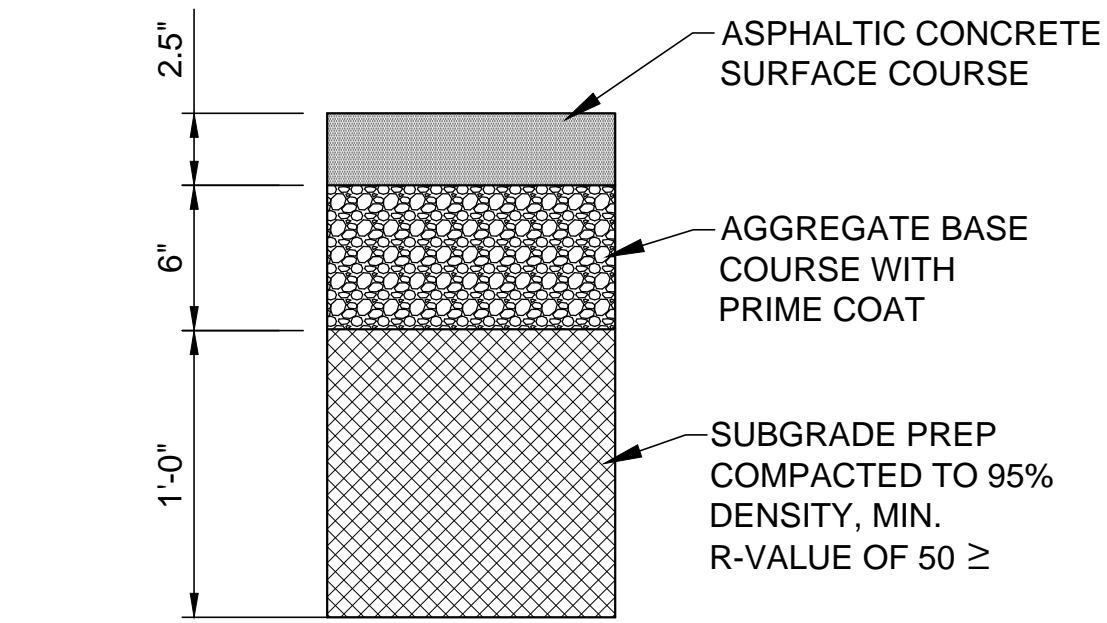
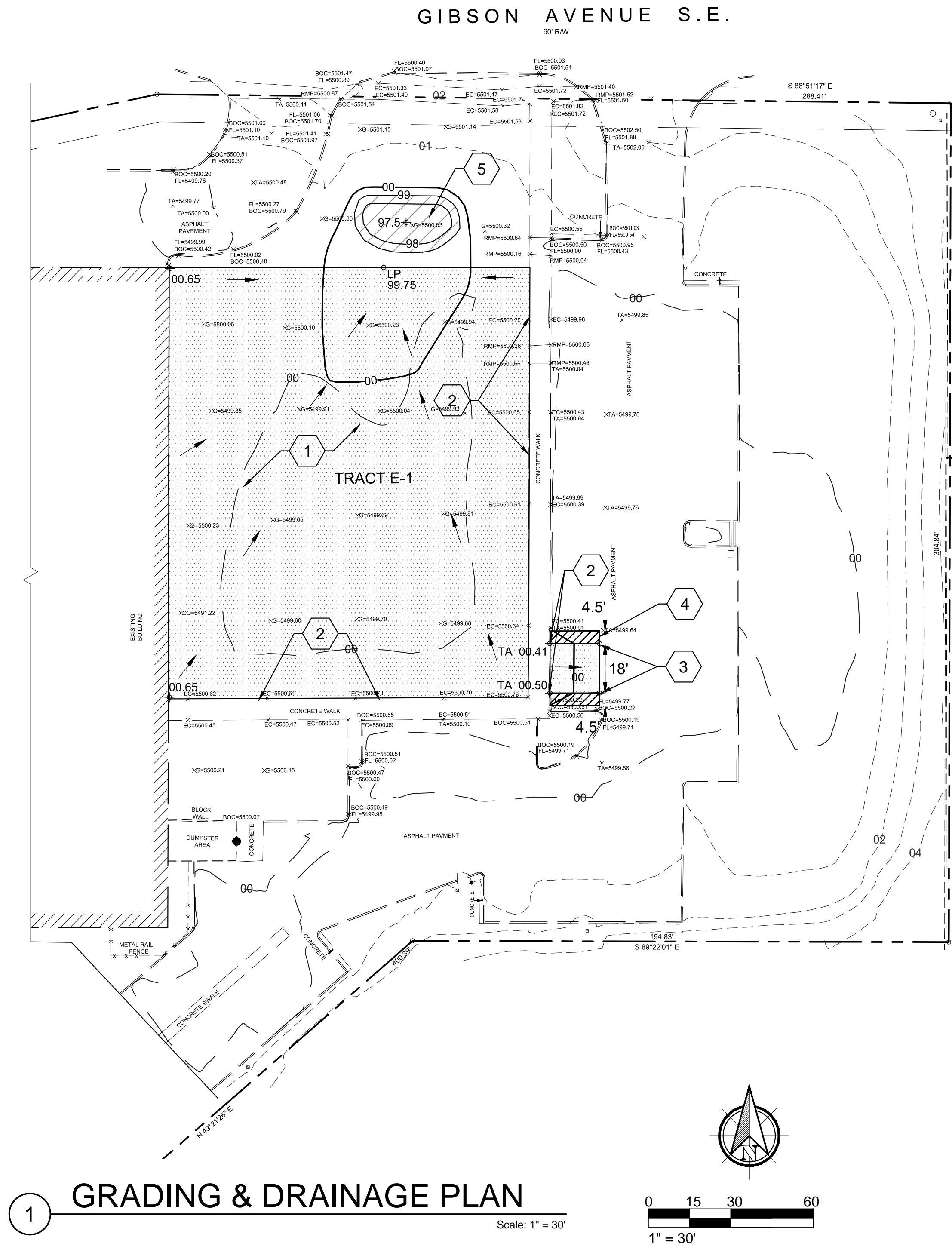
Albuquerque

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

New Mexico 87103

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LAST MODIFIED: Jul 17, 2017 -- 5:15pm
BY: USER: Coughlin
FILE: SANDIA SCIENCE & TECHNOLOGY PARK - GRADING & DRAINAGE PLAN.dwg
PLOT: 16-087 C-101.dwg



DRAINAGE NARRATIVE

THIS SITE IS LOCATED AT 10800 GIBSON AVENUE SE IN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AND IS A PORTION OF TRACT E-1 OF THE SANDIA SCIENCE & TECHNOLOGY PARK. THIS PROJECT DISTURBS APPROXIMATELY 0.5 ACRE OF AN EXISTING SITE. THE EXISTING SITE DRAINAGE AND HYDROLOGY WILL REMAIN AS IS AND AS SHOWN IN COA FILE M-21/D7A1, THE EXISTING SITE USES SURFACE DRAINAGE DIRECTED TO ON-SITE RETAINING PONDS AND ON SITE STORM DRAIN INLETS/DRAIN PIPE SYSTEM WHICH CONNECT INTO THE CITY STORM DRAINS IN THE SURROUNDING STREETS.

THE PROPOSED WORK INVOLVES THE ADDITION OF A PAVED PARKING AREA FOR VEHICLE/EQUIPMENT STORAGE. THE SITE OF THE NEW PARKING AREA IS VIRTUALLY FLAT, AND CURRENTLY DRAINS TO A SLIGHT DEPRESSION IN THE CENTER OF THE NEW LOT AREA. THE NEW GRADING WILL DRAIN THE LOT TOWARDS A NEW PONDING AREA TO THE NORTH OF THE LOT. THIS AREA WILL CONTAIN THE VOLUME OF THE FIRST FLUSH RUNOFF.

THIS SITE IS LOCATED ON FIRM MAP NO. 3500C0367H, PANEL 367 WHICH INDICATES THE ENTIRE SITE IS LOCATED IN ZONE X, AND THAT NO PORTION OF THE SITE IS LOCATED WITHIN A 100 YEAR FLOOD PLAIN.

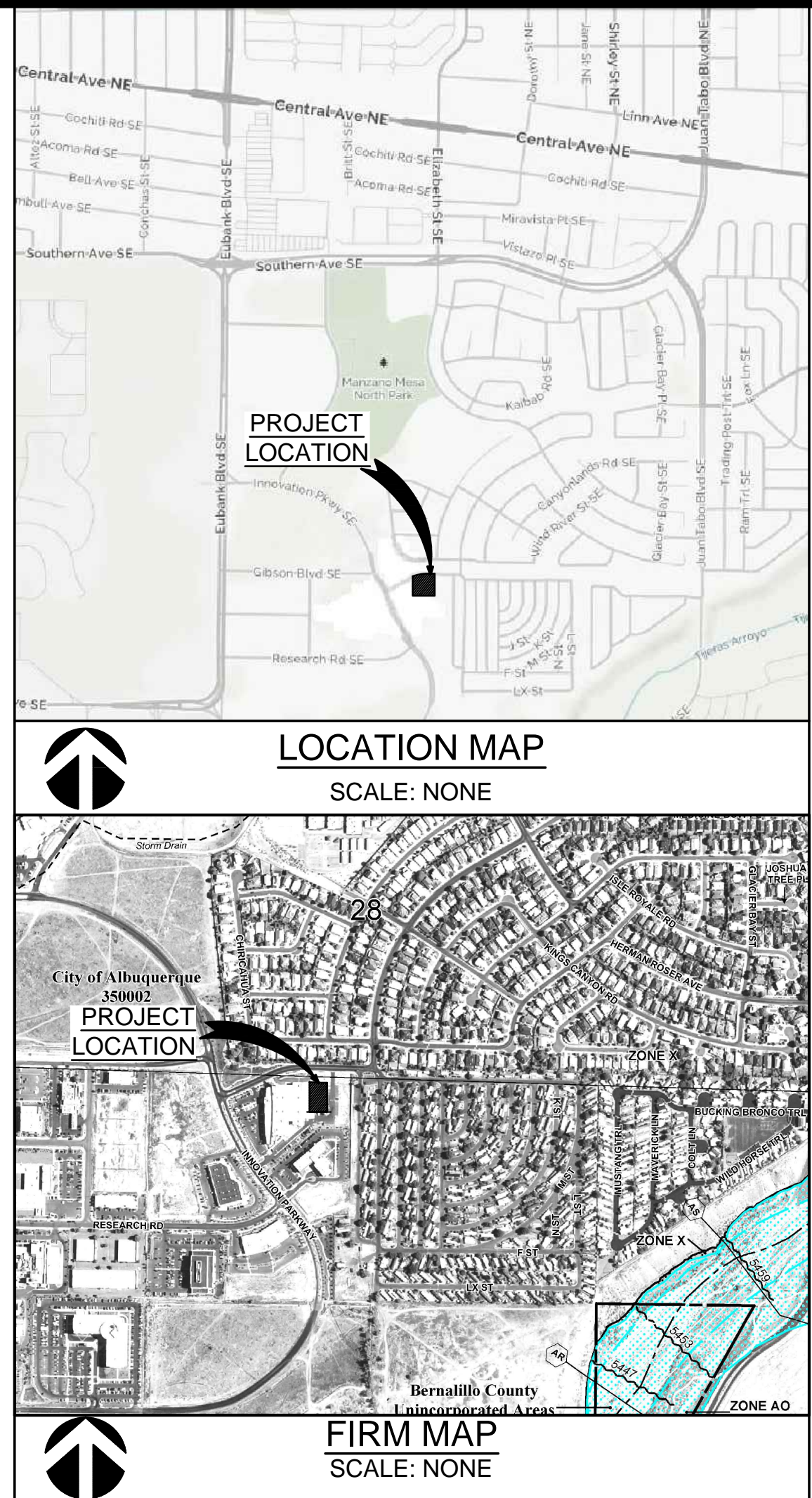
ONSITE DRAINAGE RETENTION

FIRST FLUSH STORAGE REQUIRED BY COA HYDROLOGY:

PROVIDE STORAGE FOR FIRST FLUSH RUNOFF PER SECTION 22 OF DPM TABLE A-6 USE 0.1 - 0.35 = 0.25 IN

FIRST FLUSH (IN) APPLIED OVER IMPERVIOUS AREAS (ACRES)
THEREFORE 0.25/12 X 0.47 X 43560 = 427 CF

FIRST FLUSH PONDING AREA REQD. = 427 CF < 624 CF PROVIDED

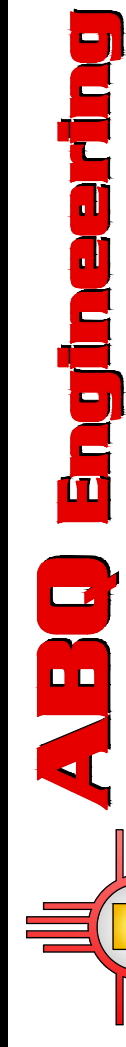


KEYED NOTES

- CONSTRUCT NEW 20600 S.F. (0.47 Acres) ASPHALT PARKING AREA. SEE DETAIL 1/C-101.
- MATCH NEW ASPHALT TO EXISTING CONCRETE WALK GRADES. SEE DETAIL 2/C-101
- MATCH NEW ASPHALT TO EXISTING ASPHALT GRADES.
- INSTALL PAINTED STRIPING ON EXISTING ASPHALT.
- CONSTRUCT NEW PONDING AREA. VOLUME OF PONDS AS SHOWN ON PLAN BETWEEN T.O.P = 99' AND B.O.P 97.5' IS APPROX. 640 CF

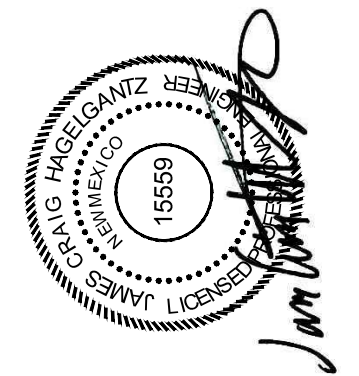
LEGEND

— -6510 —	EXISTING INDEX CONTOUR
— -6509 —	EXISTING INTERIM CONTOUR
— -10 —	NEW INDEX CONTOUR
— -09 —	NEW INTERIM CONTOUR
+22.8	EXISTING SPOT ELEVATION
+22.8	NEW SPOT ELEVATION
— —	NEW CONCRETE
— —	NEW ASPHALT
— —	EXISTING BUILDING
— —	DIRECTION OF FLOW



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REV. NO. REV. DATE DESCRIPTION



DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS AND
DIMENSIONS- NOTIFY
ENGINEER/ARCHITECT OF ANY
DISCREPANCIES PRIOR TO
BEGINNING CONSTRUCTION

SANDIA SCIENCE & TECHNOLOGY PARK
10800 GIBSON AVENUE SE
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

DESIGNED BY: CAB
DRAWN BY: CAB
PROJECT NO.: 16-087
DATE: JULY 2017

SHEET TITLE

GRADING &
DRAINAGE PLAN

SHEET NUMBER

C-101

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