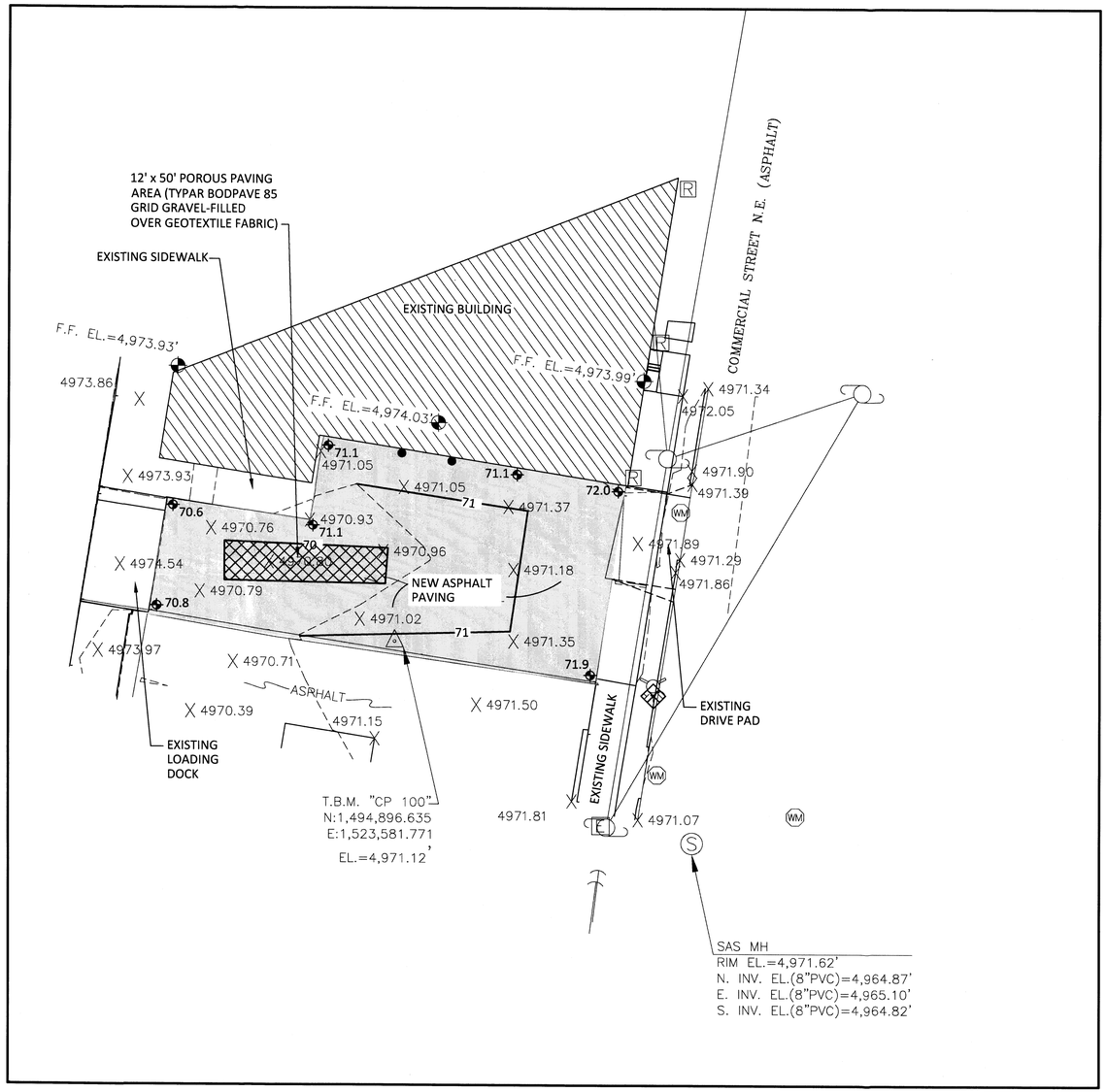
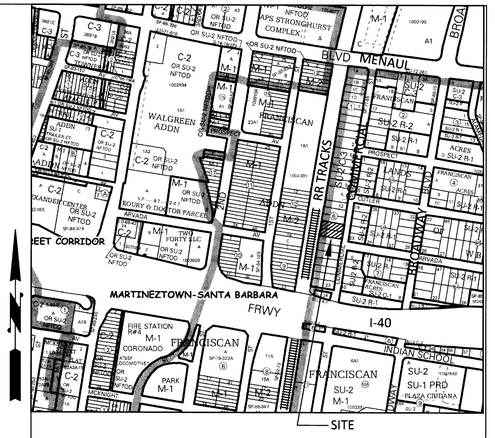


GRADING AND DRAINAGE PLAN

1" = 20'

0 20' 40'



VICINITY MAP - H-14

NTS

DRAINAGE

LEGAL: Lot 16, Block 6, Lands of W B

AREA: 6,800 SF (0.156 acre) Overall site area is 0.2 acres.

Benchmark: COA BM "11-H15" located at the ENE curb return of Menaul Blvd and Broadbent Parkway NE ELEVATION = 5015.50 (NAVD 1988)

TBM: Top of cap on rebar as shown on plan
ELEVATION = 4971.12

SURVEYOR: Terra Land Surveys, LLC dated February, 2014

PRECIPITATION ZONE: 2

FLOOD HAZARD: From FEMA Panel 35001C332G (dated 9/26/2008), this site is identified as being within Zone 'AO Depth 1' which is within an annual chance floodplain at 1' depth.

EXISTING CONDITIONS: The existing site is a developed light industrial area with commercial buildings along with associated gravel parking. It is located on the west side of Commercial Street between Menaul and I-40. The site slopes down from the east to the west at 2-4%. Existing site drainage is directed to the center of the gravel parking lot where it ponds.

PROPOSED IMPROVEMENTS: The proposed improvements include paving the existing gravel parking area. A depressed area is proposed in the center of the parking area that will be pervious paving allowing ponded runoff to infiltrate.

DRAINAGE APPROACH: The drainage plan will follow historic drainage patterns. The runoff increase will be stored onsite by creating a depressed parking area compensating for the change from land treatment 'C' to 'D'.

Existing land treatment: 100% C A=0.156 acres
Q= (0.156)(3.14) = 0.5 CFS
V= (0.0942)(6800) = 640 CF
Proposed land treatment: 9% C & 91% D
Q= (0.156)(4.56) = 0.7 CFS
V= (0.0942)(600) + (0.1767)(6200) = 1152 CF

The additional runoff Volume of 512 CF will be stored onsite by depressing the parking area by approximately 10" (0.83'). There will be no adverse impact to downstream drainage facilities as increased onsite detention offsets the added runoff volume.

LEGEND

- EXISTING CONSTRUCTION
- EXISTING BUILDING
- NEW CONTOUR
- POROUS PAVING AREA
- EXTENT OF NEW WORK
- 71.1 NEW SPOT ELEVATION

RECEIVED
MAR 20 2014
LAND DEVELOPMENT SECTION

SCOTT M. McGEE NEW MEXICO 10519 REGISTERED PROFESSIONAL ENGINEER
3/20/14

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PROJECT TITLE
DEN & Company
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SHEET TITLE
GRADING PLAN

PROJECT NO. 1404

DATE 03/2014

SHEET NO. C101