ALBUQUERQUE CORONADO INDUS NORTH I-25 CORPORATE CENTER SITE SU-2 M-1

CONSTRUCTION OF BUILDINGS WILL BE PHASED. ALL STORM DRAIN TRUNK LINES SHALL BE CONSTRUCTED PRIOR TO START OF BUILDING CONSTRUCTION. ALL OTHER DRAINAGE IMPROVEMENTS (AREA INLETS, SIDEWALK CULVERTS, SIDEWALK DRAIN PIPES) SHALL BE CONSTRUCTED WITH EACH BUILDING PHASE PRIOR TO CERTIFICATION. CONSTRUCTION SEQUENCE OF BUILDINGS WILL BE DENOTED ON BUILDING PERMIT SET.

PROJECT INFORMATION

PROPERTY: THE SITE IS A PREVIOUSLY DEVELOPED PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP B-18. THE SITE IS BOUND

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS

LEGAL: (EXISTING) A PORTION OF TRACT 1, NORTH I-25 CORPORATE CENTER, CITY OF ALBUQUERQUE, NM.

<u>AREA</u>: 9.9924 ACRES

BENCHMARK: VERTICAL DATUM IS BASED ON THE ALBUQUERQUE CONTROL SURVEY/NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "125-11", HAVING A PUBLISHED ELEVATION OF 5209.617' (NAVD 1988).

<u>OFF-SITE</u>: DRAINAGE FROM THE PROPERTY TO THE EAST PREVIOUSLY IMPACTING THIS PROPERTY WILL BE COLLECTED WITHIN A TEMPORARY DESILTATION POND AT THE SOUTHEAST CORNER OF THE PROPOSED DEVELOPMENT, 100% FREE DISCHARGE OF EXCESS FLOW WILL PASS TO THE OPEN PORTION OF THE SOUTH LA CUEVA ARROYO AND WILL CONTINUE WEST WITHIN THE PROPOSED DOUBLE 72" STORM DRAINS.

FLOOD HAZARD: THE MAJORITY OF THE PROPERTY LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE 0.2%% ANNUAL CHANCE FLOOD PLAIN). A PORTION OF THE PROPERTY ALONG THE SOUTH BOUNDARY LIE WITHIN A ZONE "A" (NO BASE FLOOD ELEVATIONS DETERMINED, 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL) IN ACCORDANCE WITH THE NATIONAL FLOOD INSURANCE PROGRAM RATE MAP NO. 35001C012 H, EFFECTIVE DATE 8/16/2012.

SURVEYOR: RUSS P. HUGG, SURV-TEK, INC., (505)897-3366, ALBUQUERQUE, NEW MEXICO.

CIVIL ENGINEER: FRED C. ARFMAN, ISAACSON & ARFMAN, PA.,

PHASING NOTE

TO THE SOUTH BY THE 'SOUTH LA CUEVA ARROYO' AND MODESTO ROAD NE, TO THE NORTH AND EAST BY FULLY DEVELOPED COMMERCIAL PROPERTY (TO BE REDEVELOPED AS NORTHPOINT 25), AND TO THE WEST BY SAN MATEO BLVD. NE.

INCLUDE A 23 BUILDING APARTMENT COMPLEX (INCLUDING GARAGE / CARRIAGE UNITS, OFFICE BLDG., HEALTH FACILITY AND RAMADA) WITH ASSOCIATED PAVED DRIVES, PARKING, PEDESTRIAN WALKS AND LANDSCAPING.

(505)268-8828, ALBUQUERQUE, NEW MEXICO.

LEGEND

PROPOSED CONTOUR PROPOSED SPOT ELEVATION FLOW ARROW

FF=XXXX.XX FINISH FLOOR ELEVATION

FIRST FLUSH RETENTION POND LOCATION

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DATE: DECEMBER 2, 2015

CONCEPTUAL GRADING AND DRAINAGE PLAN

ON-SITE 435600 100-year, 6-hour

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm) $E_AA_A + E_BA_B + E_CA_C + E_DA_D$

 $A_A + A_B + A_C + A_D$ 2.20 in. Developed E 2.02 in. E*A / 12 79842 CF Developed V₃₆₀ 73210 CF

 $Q_{pC} = 3.45$ $Q_{pA} = 1.87$ $Q_{pD} = 5.02$ 47.8 CFS Developed Q_p =

3.32 AC * 4.5 CFS/AC = 15.0 CFS

THE PROPERTY FALLS WITHIN DMP DRAINAGE BASINS (SEE DMP DRAINAGE BASIN EXHIBIT THIS SHEET): • BASIN 3 --> 28,0 CFS TO THE SOUTH LA CUEVA ARROYO. BASIN 4 --> 16.0 CFS TO SAN MATEO BLVD. (OR MAY

• BASIN 5 --> 3.8 CFS TO THE NORTH LA CUEVA ARROYO.

THE PROPOSED PROPERTY IS 9.99 ACRES. BASED ON THE DMP ALLOWABLE DISCHARGE RATE OF 4.78 CFS/ACRE, THE PROPERTY IS PERMITTED 47.8 CFS OF DISCHARGE DURING THE 100-YEAR 6-HOUR STORM.

BASED ON THE PROPOSED LAND TREATMENT RATIO OF 70%D: 24%C: 6%B: 0%A, THE SITE WILL GENERATE LESS THAN THE CALCULATED ALLOWABLE (45 CFS OR 4.5 CFS/ACRE) AND WILL DISCHARGE AS FOLLOWS:

FIRST FLUSH

- BASIN B1 --> 15.0 CFS TO SAN MATEO BLVD.
- BASIN B2 --> 30.0 CFS TO THE SOUTH LA CUEVA

B1 _4.5 CFS/AC

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993 AREA OF SITE: **DEVELOPED FLOWS:** HISTORIC FLOWS: **EXCESS PRECIP:** Treatment SF % Treatment SF % Precip. Zone 0 0% $E_A = 0.66$ Area A Area A $E_{\rm B} = 0.92$ 0 0% Area B 26136 Area B 65340 15% 104544 $E_{\rm C} = 1.29$ 24% Area C Area C 370260 85% 304920 70% $E_D = 2.36$ Area D Area D Total Area Total Area 435600 435600

On-Site Volume of Runoff: V360 =

DMP DRAINAGE BASINS 0.79 AC * 4.78 CFS/AC

4.70 C/S, = 3.8 CFS 4.78 CFS/AC= 16.0 CFS 4.78 CFS/AC= 28.0 CFS

CALCULATIONS

CALCULATIONS: NORTHPOINT TOWNHOMES: December 1, 2015

On-Site Peak Discharge Rate: $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$ For Precipitation Zone 3

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com Dec 02,2015

PRELIMINARY NOT FOR CONSTRUCTION

RESIDENTIAL COMPANY

NORTHPOINT

NWC SAN MATEO AND MODESTO NE

Albuquerque, New Mexico

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World HQ @ ORB Arch.com

1"=750'±

Rich