## CITY OF ALBUQUERQUE

July 8, 2011

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re: Ingersoll Rand Trane

**Grading and Drainage Plan** 

Engineer's Stamp dated 6-28-11 (B18/D005)

Dear Mr. Arfman,

Based upon the information provided in your submittal received 6-28-11, the above referenced plan is approved for Building Permit and SO-19. This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge and a Topsoil Disturbance Permit since it is disturbing 3/4 of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

To obtain a temporary or permanent CO the connection to the inlet must be inspected and accepted. Contact Martin Pacheco, 235-8016, to schedule an inspection. Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required

Hydrology is requesting that all proposed landscape areas are depressed to retain/infiltrate the moisture that falls on them.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

www.cabq.gov

PO Box 1293

Albuquerque

NM 87103

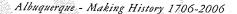
Sincerely,

Curtis Cherne, P.E., CFM.

Contract Clare

Principal Engineer, Planning Dept.
Development and Building Services

C: Antoinette Baldonado, Excavation and Barricading Martin Pacheco, Street/Storm Drain Maintenance Kathy Verhage, DMD File

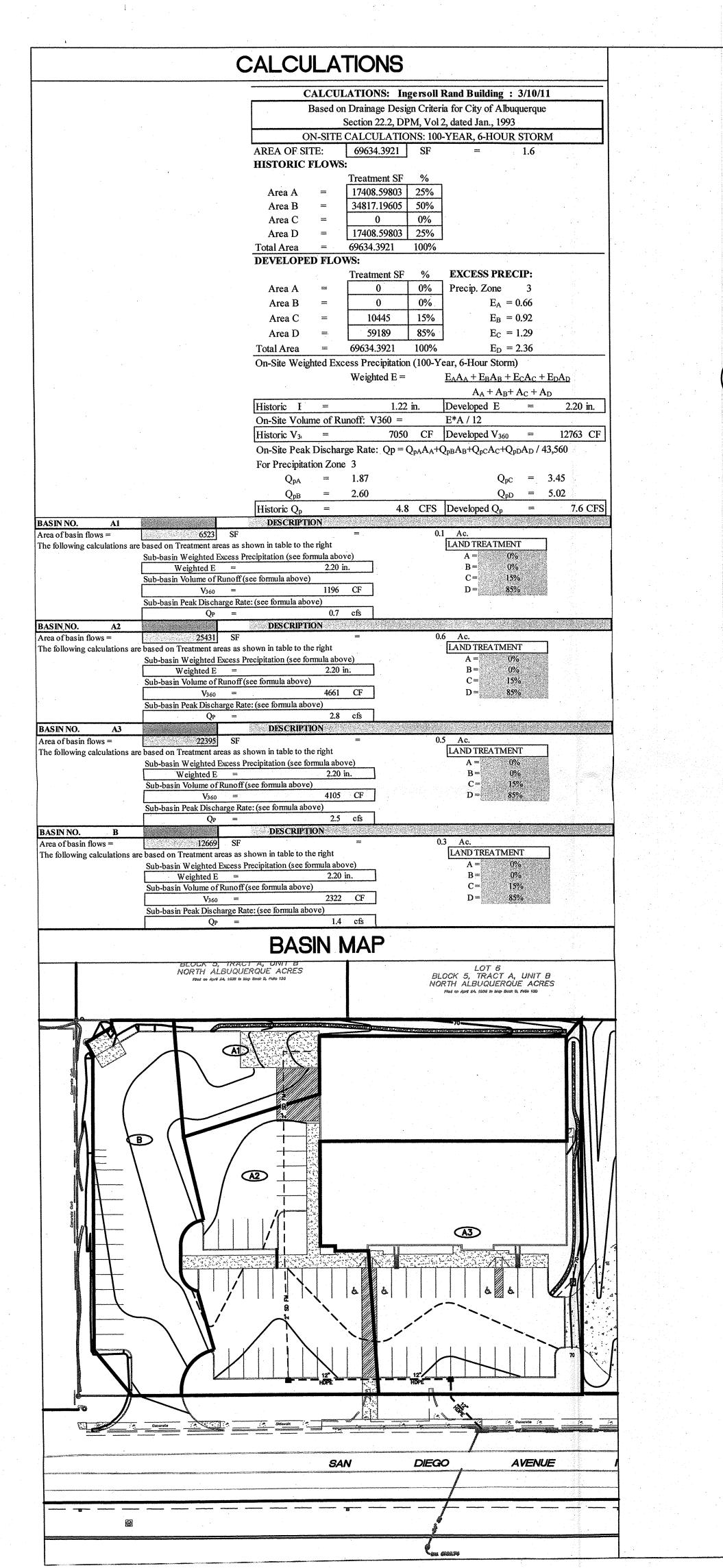


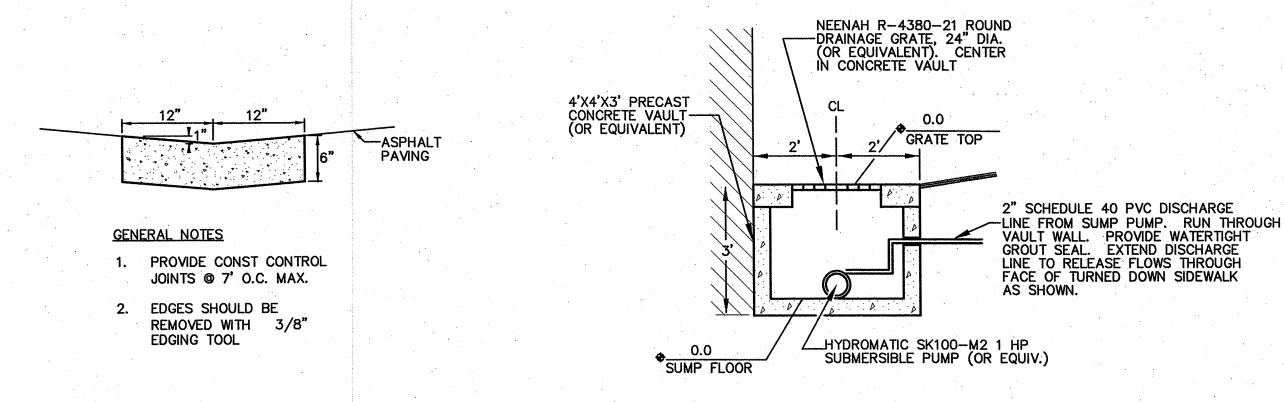
## DRAIN JE AND TRANSPORTATION INFORMA N SHEET (Rev. 12/05)

PROJECT TITLE: Ingersoll Rand Office/Warehouse	ZONE MAP/DRG.FILE# B-18 / D005
PROJECT TITLE: Ingersoll Rand Office/Warehouse  DRB#: EPC#:	WORK ORDER#:
•	
LEGAL DESCRIPTION: A Portion of Lot 28-A, Block 5, Tract CITY ADDRESS: 5501 SAN DIEGO AVE A	A, Unit 8, NAA
STITUDICION STEED AVE N	IE, ADS. NI
ENGINEERING FIRM: ISAACSON AND ARFMAN	CONTACT: FRED C. ARFMAN
ADDRESS: 128 MONROE N.E.	PHONE: <u>268-8828</u>
CITY, STATE: ALBUQUERQUE, NM	ZIP CODE: <u>87108</u>
OWNER: INGERSOL RAND (TRANE)	CONTACT: Day Courses 30 70
ADDRESS:	CONTACT: DON SCHEDEBAUER PHONE:
ADDRESS:CITY, STATE:	PHONE:ZIP CODE:
ARCHITECT: Claudio Vigil Architects	CONTACT: Sandy Fairchild
ADDRESS:CITY, STATE:	PHONE: <u>842-1113</u>
OII I, BIAIB.	ZIP CODE:
SURVEYOR: Surv-Tek	CONTACT: Russ Hugg
ADDRESS:	PHONE: 897-3366
CITY, STATE:	ZIP CODE:
CONTRACTOR: 75 0 \$ 1000	
CONTRACTOR: TEID & ASSOCIATES  ADDRESS: 6300 RIVERSIAE PAZALN.	CONTACT: <u>BILL SMITH</u> PHONE: <u>891 - 2528</u>
CITY, STATE: ASO. NM 87120	ZIP CODE: \$7/20
	24 00D2
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1 <sup>st</sup> SUBMITTAL	RELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN GRADING PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL FINAL PLAT APPROVAL
ENGINEER'S CERT (HYDROLOGY)	UNDATION PERMIT APPROVAL
CLOMR/LOMR	BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT	CRTIFICATE OF OCCUPANCY (PERM)
ENGINEER/ARCHITECT CERT (TCL)	CRTIFICATE OF OCCUPANCY (TEMP)
ENGINEER/ARCHITECT CERT (DRB S.P.)	GADING PERMIT APPROVAL
ENGINEER/ARCHITECT CERT (AA)	PAVING PERMIT APPROVAL
OTHER (SPECIFY)	WORK ORDER APPROVAL
	OTHER (SPECLYY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES YES	- 0 0011
□ NO	JUN 28 2011
COPY PROVIDED	§
	DATE: 06-28-11 SECTION
SUBMITTED BY: Fred C. Arfman	DATE: 06-28-11

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





N.T.S.

N.T.S.

N.T.S.

-ADS INLINE DRAIN

DOMED GRATE. SEE

PLAN FOR SIZE, RIM,

N.T.S.

WITH LOCKING

INVERT.

/4" EXPANSION

CONCRETE ALLEY GUTTER

SECTION

SEE ARCHITECTURAL

SLP. TO DRAIN @ 1/4"/FT

#4 REBAR

URNED DOWN WALK

EDGES SHOULD BE REMOVED WITH

3/8" EDGING TOOL

CURB OPENING

GENERAL NOTES

**GENERAL NOTES** 

EDGES SHOULD BE REMOVED WITH

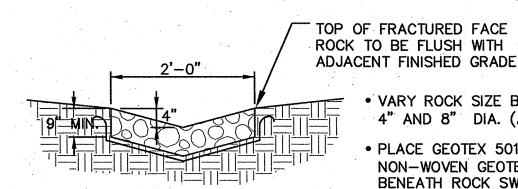
CURB OPENING AT INLET

3/8" EDGING TOOL

CONTINUOUS

3/4" EXPANSION JOINT

DADING RAMP SUMP PUMP N.T.S.

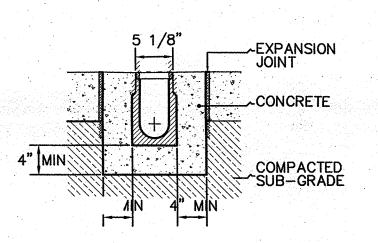


 VARY ROCK SIZE BETWEEN 4" AND 8" DIA. (AVG.=6")

PLACE GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.) BENEATH ROCK SWALE PER MANUFACTURER'S RECOMMENDATIONS

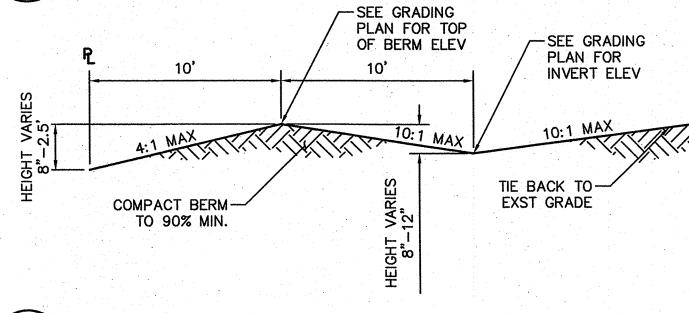
-RAP SWALE

N.T.S.

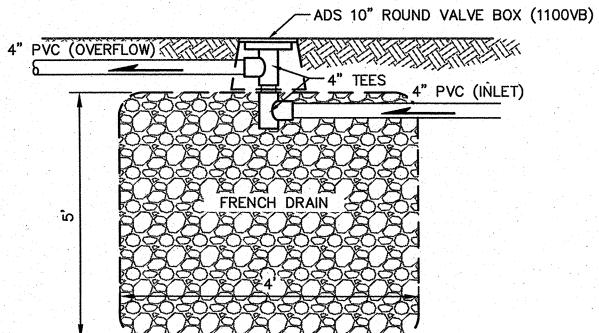


ACO-DRAIN K100S SIDEWALK TRENCH DRAIN (O.A.E.) WITH PEDESTRIAN GRATE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

SIDEWALK TRENCH DRAIN N.T.S.



OFFSITE SWALE



FRENCH DRAIN CONNECTOR (INLET/OUTLET) CONNECTOR PIPING N.T.S. **GENERAL NOTES** 

ALBUQUERQUE SPECIFICATIONS.

- A. COORDINATE WORK WITH SITE PLAN, UTILITY PLAN, DEMOLITION PLAN, AND LANDSCAPE PLAN.
- B. ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- C. ALL SUBGRADE, OVEREXCAVATION, AND FILL SHALL BE PLACED AND/ OR COMPACTED PER THE GEOTECHNICAL REPORT AND CITY OF
- D. FINAL GRADES SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP) OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL. TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED.
- MAXIMUM SLOPES SHALL BE 3:1. MINIMUM SLOPES SHALL BE 1% UNLESS OTHERWISE NOTED.
- EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE. IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. CONTRACTOR SHALL ALLOW TESTING LABS TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHOULD COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT THE CONTRACTOR'S SOLE EXPENSE.
- OWNER HAS ESTABLISHED PROPERTY BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS AT CONTRACTOR'S SOLE EXPENSE.
- THE ENVIRONMENTAL PROTECTION AGENCY AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES (INCLUDING OTHER LAND-DISTURBING ACTIVITIES) DISTURB ONE ACRE OR MORE (BY OTHERS). A SWPPP MUST BE INCLUDED WITH THE CONTRACTOR'S SUBMITTAL FOR A ROUGH GRADING, GRADING, PAVING OR BUILDING PERMIT. THE SWPPP MUST BE IN PDF OR MS WORD FORMAT ON A CD.
- . ADJUST RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES, TYPICAL.
- ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. WHERE NEW GRADES ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH AND
- M. ALL FRACTURED FACE ROCK (F.F. ROCK) TO BE 6" AVG. DIA. ANGULAR FACED ROCK PLACED OVER GEOTEX 50 NON-WOVEN GEOTEXTILE (O.E.). NOTE: PERMANENT TURF REINFORCEMENT MATERIAL (LANDLOK TRM 450 O.E.) MAY BE SUBSTITUTED AT ALL AREAS REFERENCING F.F. ROCK EROSION PROTECTION.
- I. SIDESLOPES STEEPER THAN 3:1 BUT LESS THAN 2:1 MUST HAVE PERMANENT EROSION CONTROL (F.F. ROCK OR LANDLOK TRM 450 O.E.) INSTALLED, TYPICAL. NO SLOPE SHALL BE STEEPER THAN 2:1
- O. OWNER SHALL MAINTAIN EROSION PROTECTION ELEMENTS. OWNER SHALL INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.

## PROJECT DATA

LEGAL DESCRIPTION: A PORTION OF LOT 28-A, BLOCK 5, TRACT A, UNIT B, NORTH ALBUQUERQUE ACRES. (PROPOSED LOT 28-A-1)

<u>SITE AREA:</u> 1.5948 AC.

FLOOD ZONE: NO PORTION OF THIS SITE IS WITHIN THE 100-YEAR FLOODPLAIN AS DESIGNATED ON FEMA FIRM MAP #35001C0129G DATED SEPTEMBER 26, 2008.

ENGINEER: GENNY DONART

ISAACSON & ARFMAN, P.A. 128 MONROE ST NE, ABQ. NM 87108

**SURVEYOR:** 

SURV-TEK, INC. 9384 VALLEY VIEW DR. NW ALBUQUERQUE, NM 87114 PHONE: (505) 897-3366 ATTN: RUSS HUGG

PHONE: (505) 268-8828

BENCHMARK: ACS MONUMENT "I-25-11" ELEV = 5609.62 (NAVD 88)

EXISTING CONDITIONS: THIS SITE WAS PREVIOUSLY DEVELOPED AS THE PRAXAIR PLANT, AN INDUSTRIAL FACILITY. IT HAD APPROXIMATELY 25% IMPERVIOUS AREA, AND DISCHARGED ABOUT 5 CFS, WITH SOME DRAINING TOWARDS THE EXISTING PROPERTY TO THE WEST, AND THE REMAINDER DRAINING TO SAN DIEGO AVE TO THE SOUTH. THE SITE SLOPES AT APPROXIMATELY 3% SLOPE DOWNHILL TO THE WEST, WITH VERY LITTLE NORTH-SOUTH SLOPE.

AN EXISTING STORM DRAIN INLET IN THE EASTERLY PORTION OF SAN DIEGO AVE CAPTURES FLOWS, AND DIRECTS THEM TO THE NORTH LA CUEVA ARROYO ON THE SOUTH SIDE OF THE STREET

PROPOSED CONDITIONS: A NEW XXX SF COMMERCIAL BUILDING IS PROPOSED FOR THE SITE. THE ENTIRE SITE WILL GENERATE 7.6 CFS. 1.4 CFS WILL FREE DISCHARGE TO SAN DIEGO AVE, WITH 6.0 CFS CAPTURED IN STORM DRAINS, AND DIRECTED TO THE EXISTING INLET IN SAN DIEGO AVE.

BASIN A1 IS DIRECTED TO THE LOADING DOCK. A SUMP PUMP AT THE LOADING DOCK DISCHARGES 0.7 CFS TO THE STORM DRAIN AS PART OF THE TOTAL 6.0 CFS SENT TO THE EXISTING

A BERM ALONG THE EASTERN EDGE OF THE PROPERTY WILL RE-DIRECT OFFSITE FLOWS.



1801 Rio Grande Boulevard, N.W. Albuquerque, New Mexico Phone: (505) 842-1113 Fax: (505) 842-1330

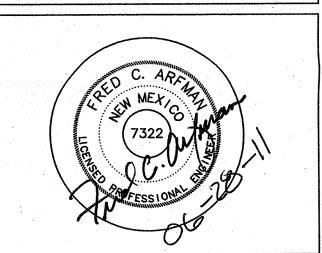
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## CONSULTANTS

ISAACSON & ARFMAN, P.A Consulting Engineering Associates

128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 Fax. 505-268-2632 1742 CG-501.dwg Jun 27,2011

PROFESSIONAL SEAL





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PROJECT NUM	<b>BER:</b> 09225
DRAWING FILE	: INGERSOLLRAND-SP5
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DATE:	JANUARY 21, 2011

SHEET TITLE GRADING DETAILS & CALCULATIONS

> SHEET NUMBER CG - 501