### CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



Richard J. Berry, Mayor

July 10, 2014

Bernie J. Montoya BJM CONSULTANT 8624 Casa Verde Ave. NW Albuquerque, NM 87120

RE: Warehouse Addition -2655 Baylor Drive SE

**Grading & Drainage Plan** 

Engineer's Stamp Date 6-30-2014 (File: M16D006)

Dear Mr. Montoya:

Based upon the information provided in your submittal received 6-30-14, the above referenced plan is approved for Building Permit and SO-19.

Please attach a copy of this approved plan to the Building Permit construction sets prior to sign-off by Hydrology.

PO Box 1293

A separate Excavation/Barricading Permit is required for SO-19 construction within City ROW. A copy of this approval letter must be on hand when applying for the permit. To obtain a C.O., the storm drain work in the City ROW must be inspected and accepted. Please contact Jason Rodriguez, 857-8074, to schedule an inspection.

Albuquerque

Prior to Certificate of Occupancy release, an Engineer's Certification of Grading on this site, will be required per the DPM checklist.

New Mexico 87103

If you have any questions, you can contact me at 924-3695.

www.cabq.gov

Rita Harmon, P.E.

Senior Engineer, Planning Dept. Development Review Services

Orig: Drainage file

c.pdf via Email: Recipient, Tim Sims, Monica Ortiz

#### **EXISTING EXCESS PRECIPITATION**

Weighed E = EaAa + EbAb + EcAc + EdAd Aa= 0 Ab= 0 Ac = 0.4595 Ad = 0

Ea = 0.13 Eb = .28 Ec = .52 Ed = 3.14

Aa + Ab + Ac + Ad

EXISTING E = EcAc = (.52)(0.4595)

= 0.52 INCHES

0.4595

Volume 360-10- year = (0.52)x(.4595)/12 = 0.01991 ac-ft = 867.35 cf

Pa = 0.38 Pb = 0.95 Pc = 1.71 Pd = 3.14

Q 360-10-year = (.38)x(0) + (.95)(0) + (1.71)x(0.07682) + (3.14)x(0) + 01313 cfs

#### PROPOSED EXCESS PRECIPITATION

Weighted E = (.13)x(0) + (.29)x(0.03341) + (.52)x(0.07682) + (1.34)x(0.3477)

0.4595

E = 0.51556

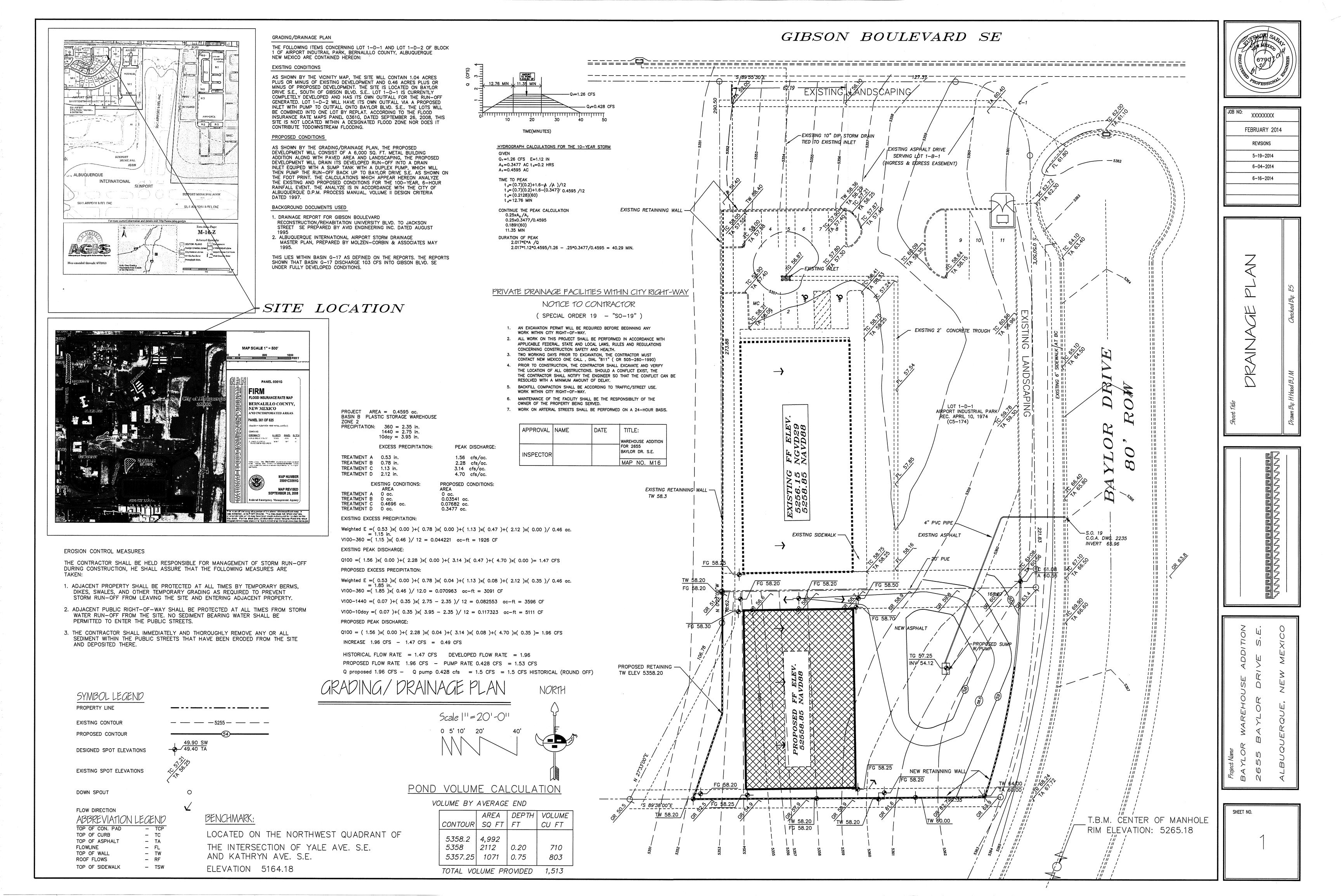
= 1.12 inches

0.4595

Volume 360-10-year = (1.12)x(0.4595)/12 = 0.04289 ac-ft = 1,868.14 cf

Q360-10-year = (.38)x(0) + (.95)x(0.03541) + (1.71)x(0.007682) + (3.14)x(0.3477) = 1.26 cfs





VERTICAL REINF, ELEV

NO SCALE

Wall Height	Footing Dimensions				"L" Bars			"M" Bars		"O" Bars			b		"P" Bars		
•						Number							└a	(Horz)			
h w	В	a	b	С	d	Size	TOP	воттом	Size	Length	Spacing	Size	Spacing	a	b	Size	Spacing
1'-4" TO 2'-0"	1'-4"	0'-8"	0'-4"	0'-8"	0'-4"	#4	2	2	_	-	_	<b>—</b>	-	-	-	#3	1'-0"
2'-0" TO 3'-4"	1'-8"	0'-8"	0'-4"	0'-8"	0'-8"	#4	2	2	_	_	_	_	-	_	-	#3	1'-6"
3'-4" TO 4'-0"	2'-4"	0'-8"	0'-6"	0'-8"	1'-2"	#4	3	2	#4	Full Ht	2'-8"	#4	1'-4"	0'-8"	3'-5"	#4	1'-6"
4'-0" TO 5'-4"	3'-0"	0'-10"	0'-6"	0'-8"	1'-10"	#4	4	2	#4	Full Ht	2'-8"	#4	1'-4"	0'-11"	4'-5"	#4	1'-6"
5'-4" TO 6'-0"	4'-0"	0'-10"	0'-6"	0'-8"	2'-10"	#4	4	2	#5	Full Ht	1'-6"	#5	2'-8"	0'-11"	5'-5"	#5	1'-6"

## CONCRETE RETAINNING WALL

TYPICAL X-SECTION

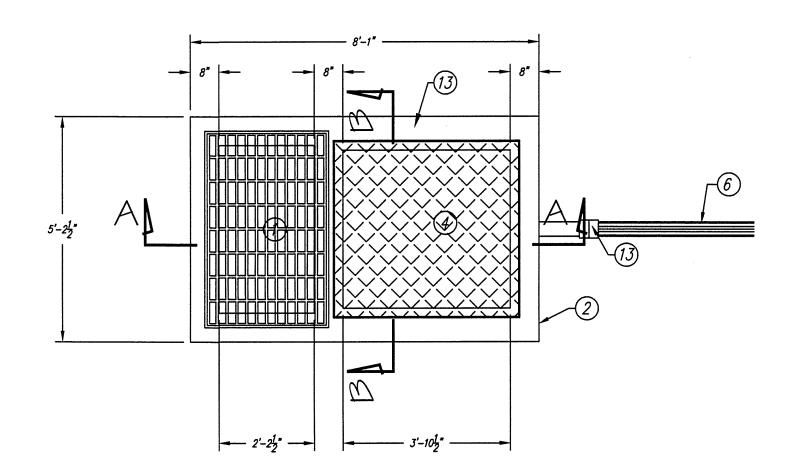
### PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT-WAY

NOTICE TO CONTRACTOR

(SPECIAL ORDER 19 - "SO-19")

- 1. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 3. TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" ( OR 505-260-1990)
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE. WORK WITHIN CITY RIGHT-OF-WAY.
- MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILTY OF THE OWNER OF THE PROPERTY BEING SERVED.
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

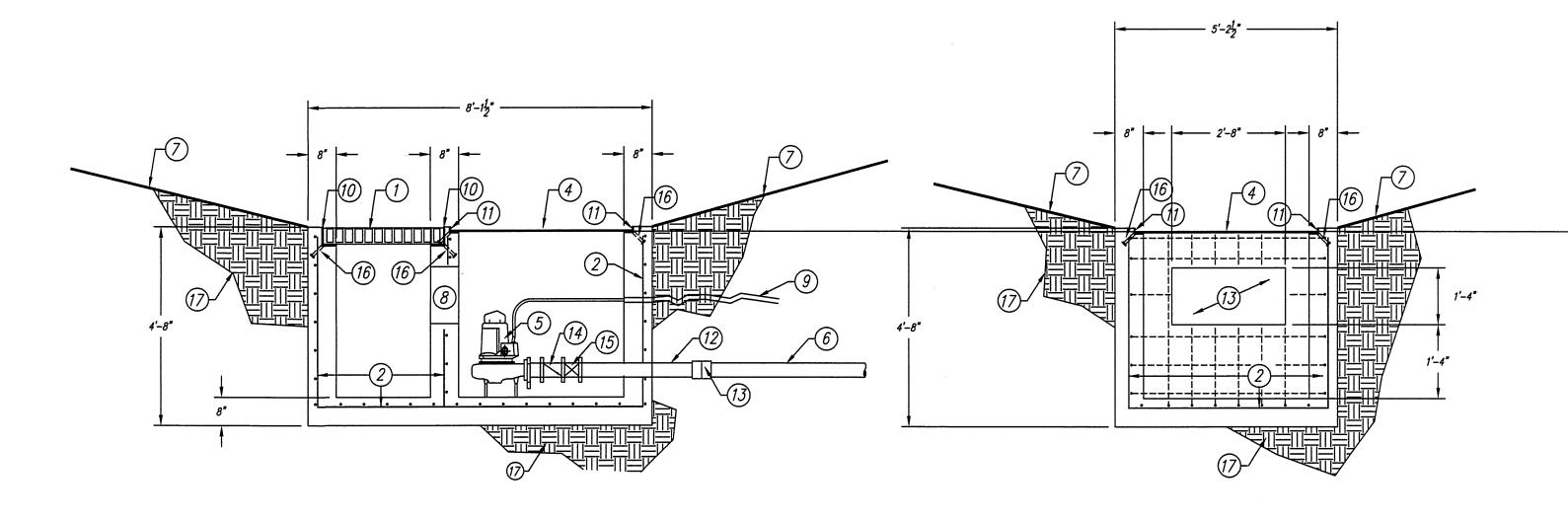
APPROVAL	NAME	DATE	TITLE:
			WAREHOUSE ADDITION FOR 2655
INSPECTOR	·		BAYLOR DR. S.E.
			MAP NO. M16



INLETPLAN

## KEYED NOTES:

- GRATE PER COA STD DWG. 2220 (SEE DRAINAGE PLAN FOR GRATE ELEVATION)
- #4 RE-BAR(SCH 40) 6" EACH-WAY
- 8" 4000# CONCRETE PAD & WALLS
- 1/2" DIAMOND STEEL PLATE
- SUMP PUMP (FLYGT MODEL DF3067, IMP 474, 1-PHASE,115 VOLTS O.A.E.)
- 4.0" PVC(SCH 40) FORCE MAIN- SEE DRAINAGE PLAN FOR POINT OF DISCHARGE
- SLOPE GRADE TO INLET GRATE
- OPENING TO ALLOW FLOW CENTER ON PARTITION
- FLOAT CONTROL & POWER SUPPLY CONDUIT SEAL WATER TIGHT
- 4"x3" x 1/4" ANGLE
- 1"x2"x1/4" ANGEL
- 3"GALV PIPE
- TRANSITION COUPLING (FLEXIBLE)DRESSER O.A.E.
- CHECK VALVE
- GATE VALVE
- 1/2"x3" BOLT WITH SQ HEAD WELDED TO ANGLE(1 ON ALL SIDES)
- COMPACTED EARTH



# INLET SECTION A-A

PUMP DATA: STATIC LIFT: 0 FT. TO 4.4 FT. (POND LEVEL VARIATION)
TOTAL EQUIVALENT FEET OF DISCHARGE PIPE = 114'
DISCHARGE RATE= 170 gpm (EVACUATION IN 2.5± hrs)
SYSTEM HEAD LOSS = 17.0'
TOTAL DYNAMIC LOSS = 17.0' TO 19.2'
PUMP SELETION TO OPERATE BETWEEN 170 gpm (APPROX)
FLOAT LEVEL SENSORS

AND CONTROL PANEL SUPPLIED BY PUMP SUPPLIER. PUMP OFF AT

SEE PUMP CUT SHEETS FOR INF ABOUT PUMP TO BE USED

INLET SECTION B-B

NTS

SUMP WITH PUMP DETAIL



XXXXXXXX FEBRUARY 2014 REVISIONS 6-16-2014

SUMP