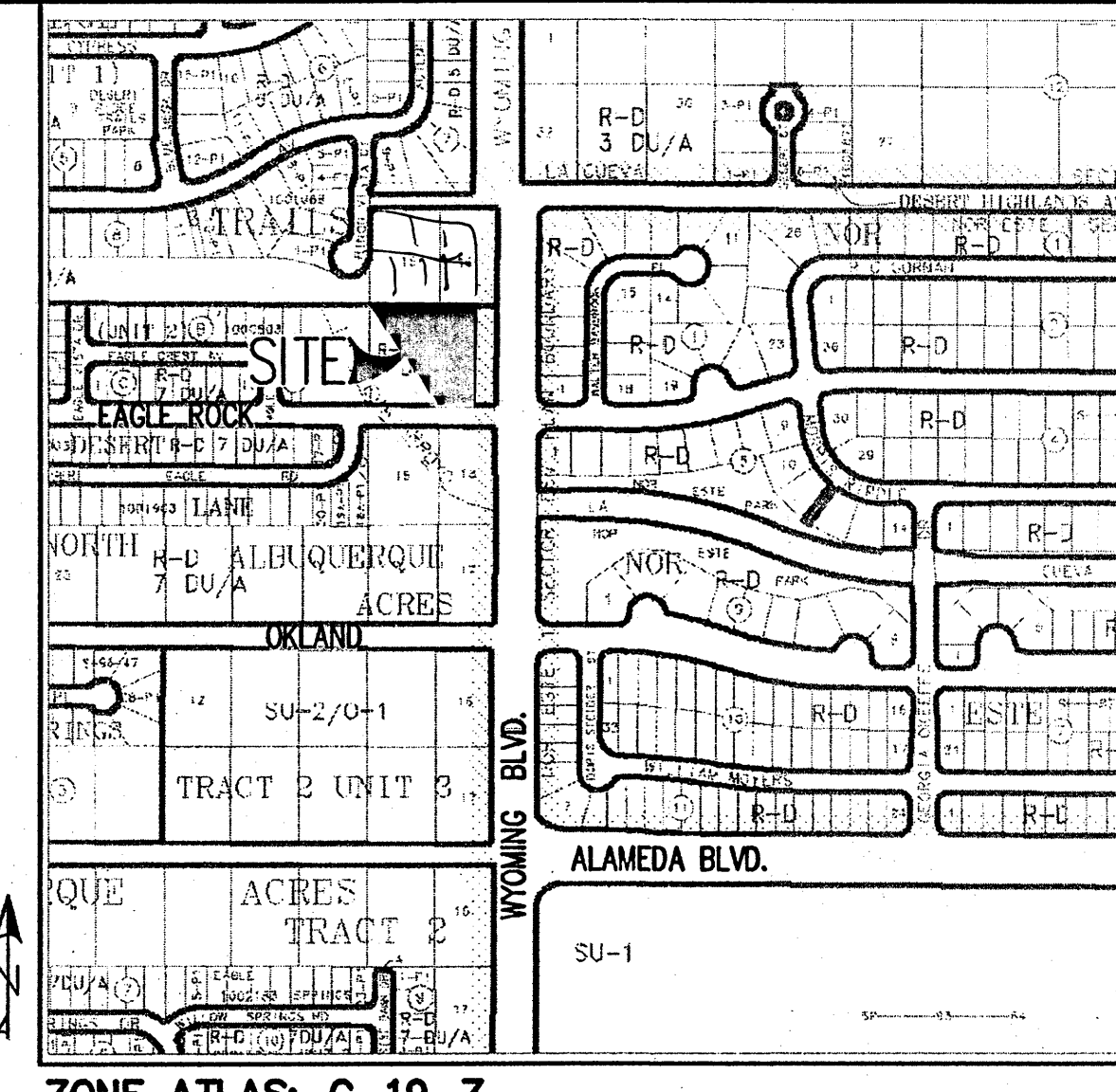
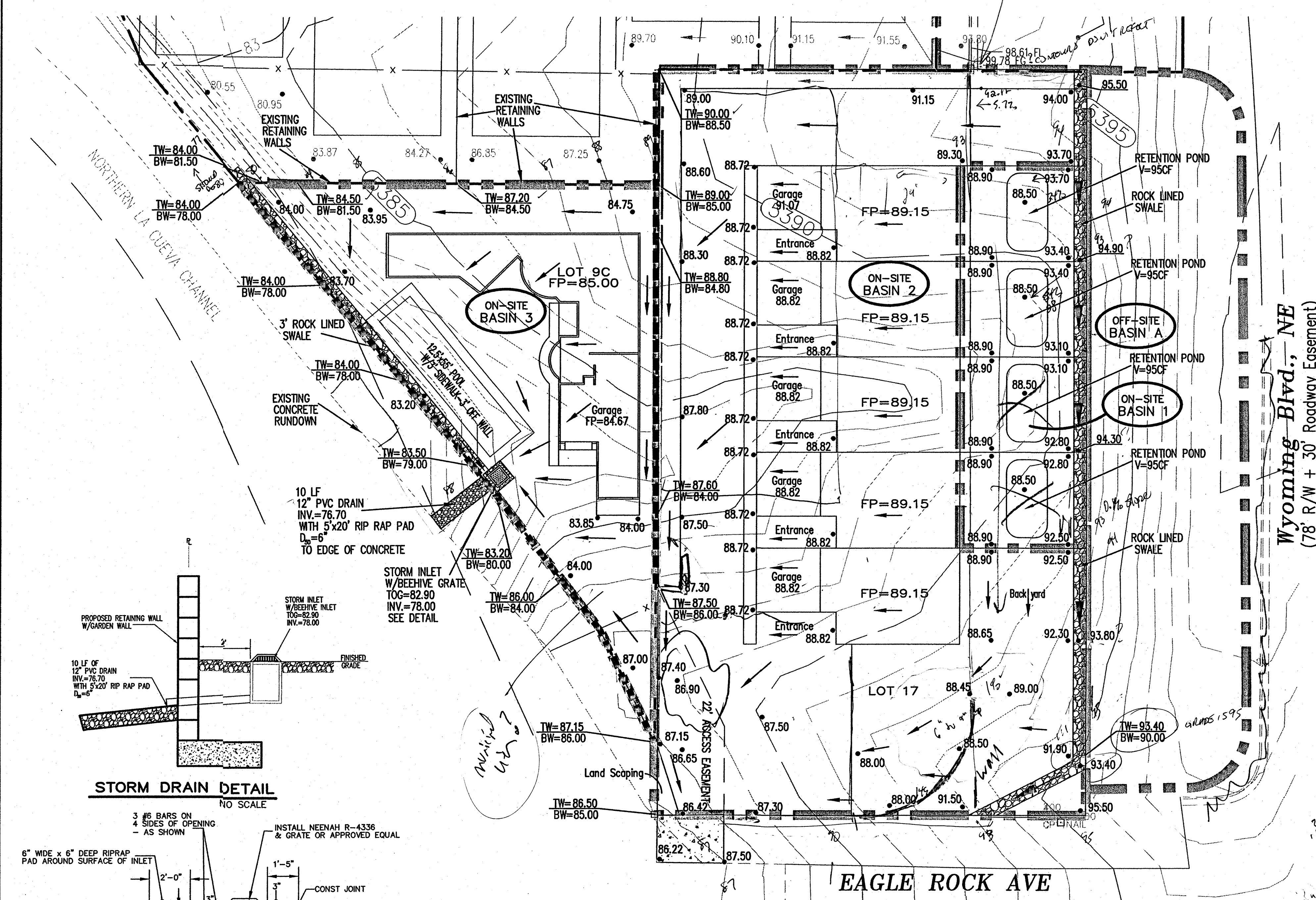


WATER 2013-09-28
29-01-2013



ZONE ATLAS: C-19-Z

DRAINAGE PLAN:

LEGAL DESCRIPTION: LOT 9C, LA VISTA AT DESERT RIDGE SUBDIVISION; AND LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3

SITE AREA: 0.97 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.

LOCATION AND DESCRIPTION: THE LOTS ARE LOCATED ON EAGLE ROCK AVENUE WEST OF WYOMING BOULEVARD. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.

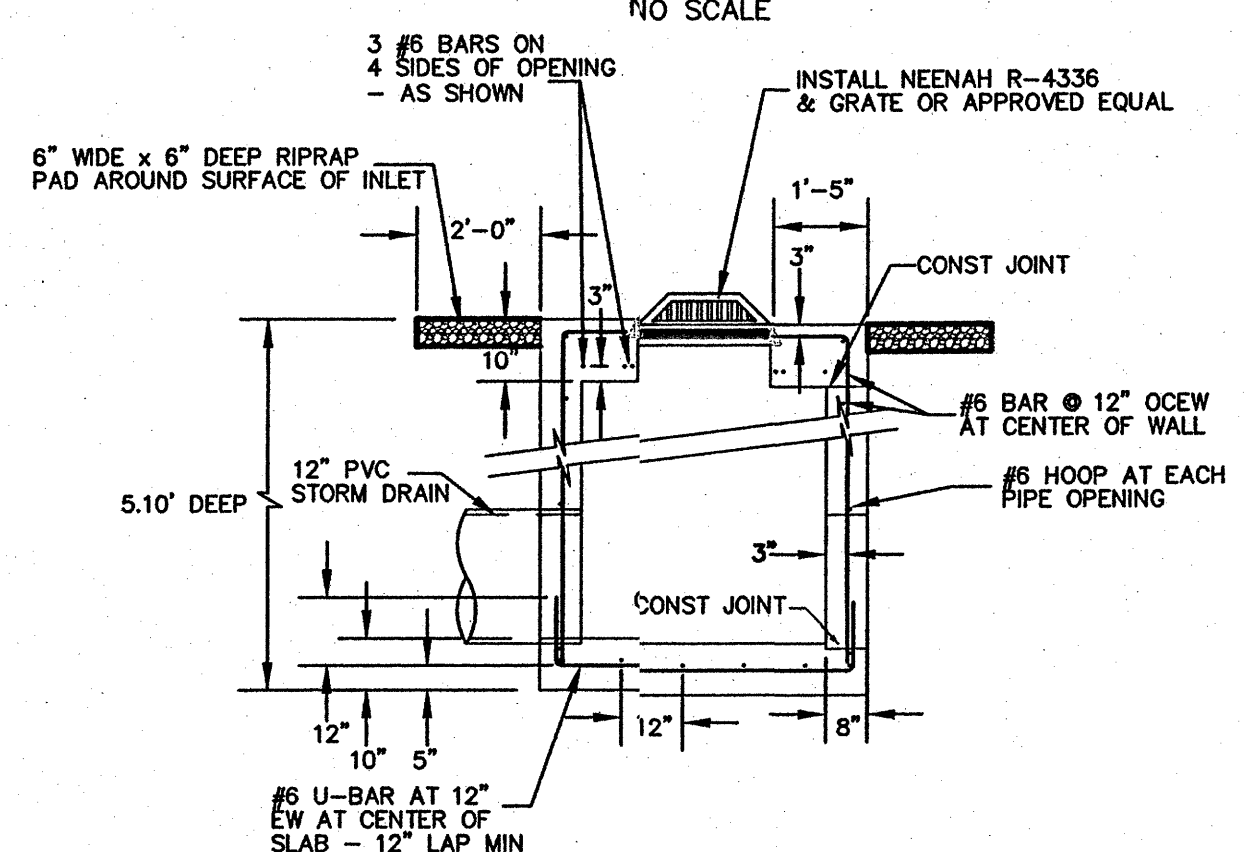
THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO THE NORTH LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST.

DEVELOPED DRAINAGE CONDITIONS:

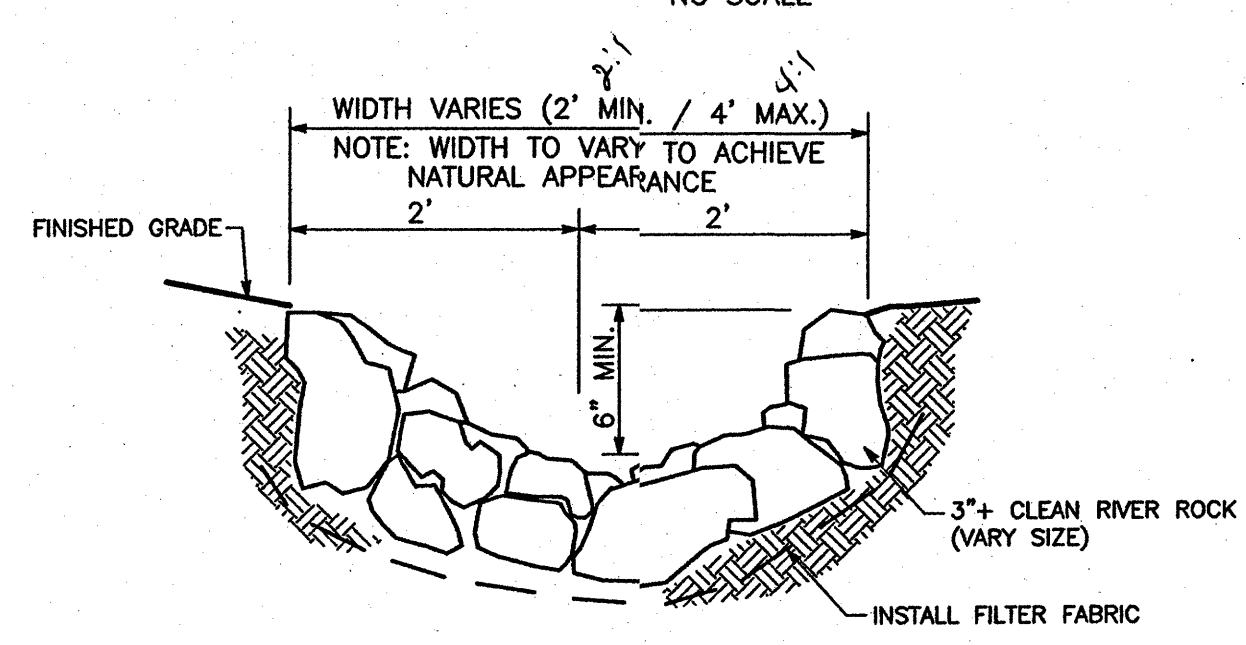
THE PROPERTY HAS BEEN DIVIDED INTO THREE ONSITE DRAINAGE BASINS AND ONE OFFSITE DRAINAGE BASIN. RUNOFF FROM OFFSITE BASIN 1 WILL BE COLLECTED IN A ROCK-LINED SWALE ALONG THE LOT 17 EAST PROPERTY LINE AND WILL BE DIVERTED TO EAGLE ROCK AVENUE AND WILL EVENTUALLY DRAIN TO THE NORTH LA CUEVA CHANNEL.

RUNOFF FROM THE ONSITE BASIN 1, WHICH INCLUDES THE BACKYARDS OF THE NORTHERN 4 TOWNHOMES ON LOT 17, WILL POND IN THE EACH BACKYARD. EACH POND WILL HOLD 95 CUBIC FEET OF RUNOFF. RUNOFF FROM ONSITE BASIN 2, WHICH INCLUDES THE REMAINDER OF LOT 17, WILL BE DIRECTED TO EAGLE ROCK AVENUE THROUGH THE GRAVEL DRIVEWAY. A TOTAL OF 2.31 CFS WILL DRAIN TO EAGLE ROCK AVENUE AND WILL DRAIN TO THE NORTH LA CUEVA CHANNEL. RUNOFF FROM ONSITE BASIN 3, WHICH INCLUDES ALL OF LOT 9C, WILL DRAIN TO A STORM INLET ALONG THE WEST PROPERTY LINE. IT WILL BE DISCHARGED TO THE NORTH LA CUEVA CHANNEL THROUGH A 12" PVC STORM DRAIN ONTO A RIPRAP PAD TO THE NORTH LA CUEVA CHANNEL. A TOTAL OF 0.90 CFS WILL BE COLLECTED IN THE STORM INLET AND WILL BE DISCHARGED TO THE CHANNEL.

STORM DRAIN DETAIL
NO SCALE



BEEHIVE INLET DETAIL
NO SCALE

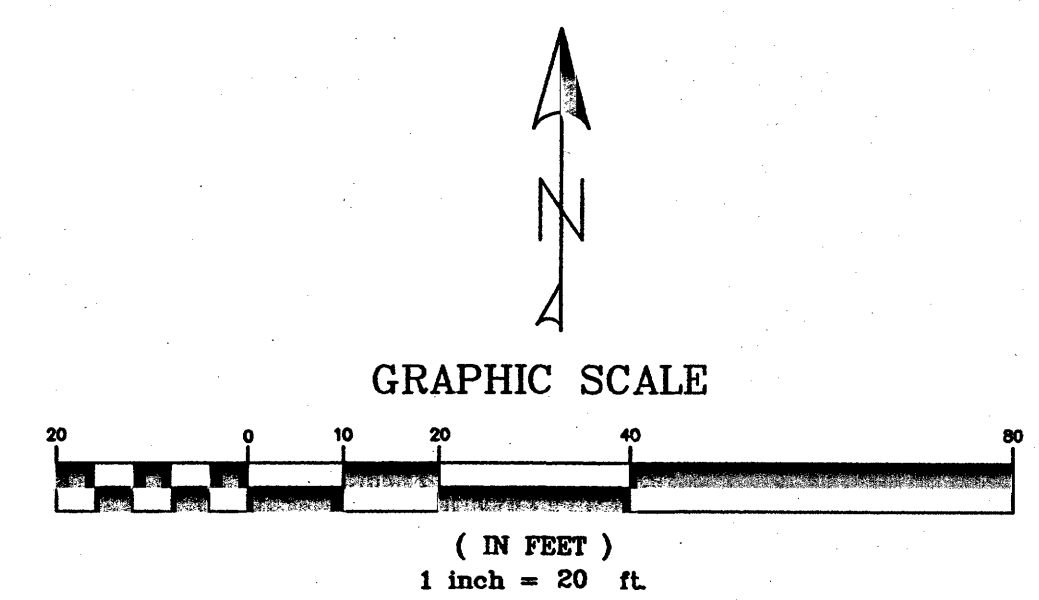


ROCK-LINED SWALE
NTS

100-YEAR HYDROLOGIC CALCULATIONS											
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(24-hr) (acre-ft)	V(24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
OFF-SITE A	0.2535	100.00	0.00	0.00	0.00	0.66 ✓	0.01	607	0.01	607	0.47
ON-SITE 1	0.1102	100.00	0.00	0.00	0.00	0.66	0.01	264	0.01	264	0.21
ON-SITE 2	0.6175	100.00	0.00	0.00	0.00	0.66	0.03	1,479	0.03	1,479	1.15
ON-SITE 3	0.2436	100.00	0.00	0.00	0.00	0.66	0.01	584	0.01	584	0.46
TOTAL RUNOFF	1.22						0.07	2,934	0.07	2,934	2.29
PROPOSED CONDITIONS											
ON-SITE 1	0.1102	0.00	92.50	7.50	0.00	0.95 ✓	0.01 ✓	379	0.01	379	0.29
ON-SITE 2	0.6175	0.00	34.70	28.30	37.00	1.56	0.08 ✓	3,491	0.09	3,906	2.31
ON-SITE 3	0.2436	0.00	45.40	14.90	39.70	1.55	0.03	1,368	0.04	1,543	0.90
TOTAL RUNOFF	0.97						0.12	5,238	0.13	5,828	3.50
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q (cfs)					
WEIGHTED E (in) = (E')(%A) + (E')(%B) + (E')(%C) + (E')(%D)											
V (acre-ft) = (WEIGHTED E)(AREA)/12											
V (acre-ft) = V + (A)(P) - P/12											
Q (cfs) = (Q')(A') + (Q')(A') + (Q')(A') + (Q')(A')											
ZONE = 3											
P ₆₋₁₀ (in.) = 2.60											
P _{24-hr} (in.) = 3.10											
P _{100-yr} (in.) = 4.90											

LEGEND

- FP=09.07 FINISHED PAD SITE ELEVATION
- 60.23 PROPOSED SPOT ELEVATION
- TW=12.51 TOP OF WALL
- BW=11.84 BOTTOM OF WALL
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED RETAINING WALL
- PROPOSED MOUNTABLE CURB AND GUTTER
- PROPOSED BASIN NUMBER
- PROPOSED BASIN BOUNDARY
- PROPOSED WHEEL CHAIR RAMPS



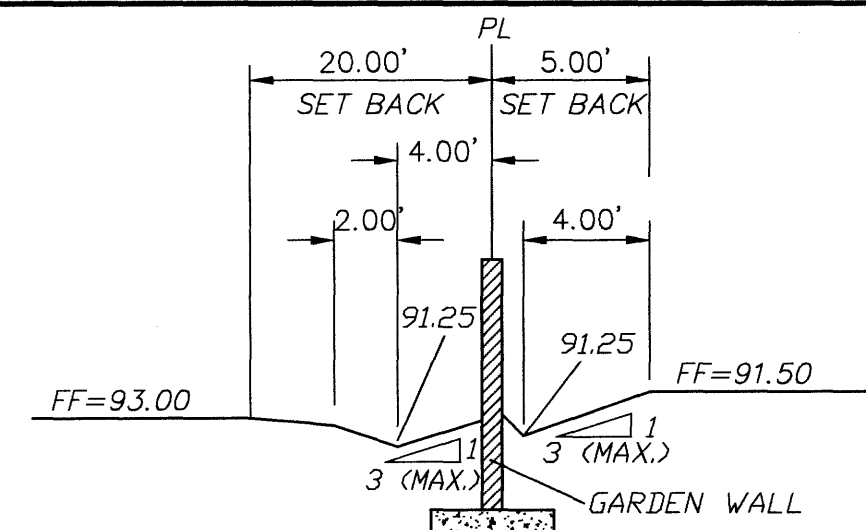
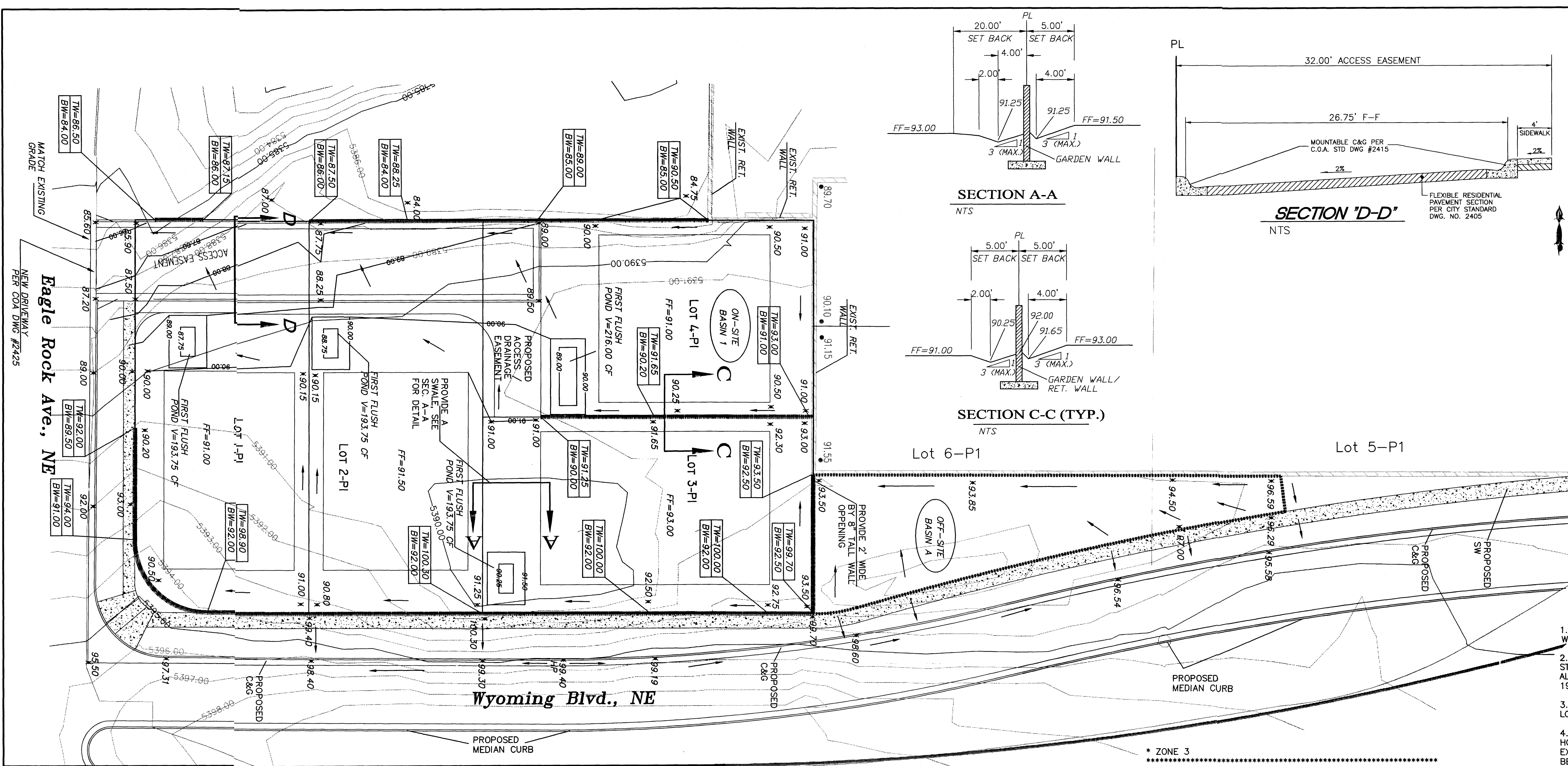
Thompson Engineering Consultants, Inc.
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9426
tecnm@yahoo.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT
LOT 9C, LA VISTA AT DESERT RIDGE AND LOT 17, BLOCK 1, NAA TRACTS 2, UNIT 3
GRADING AND DRAINAGE PLAN FOR LOTS 11 & 17

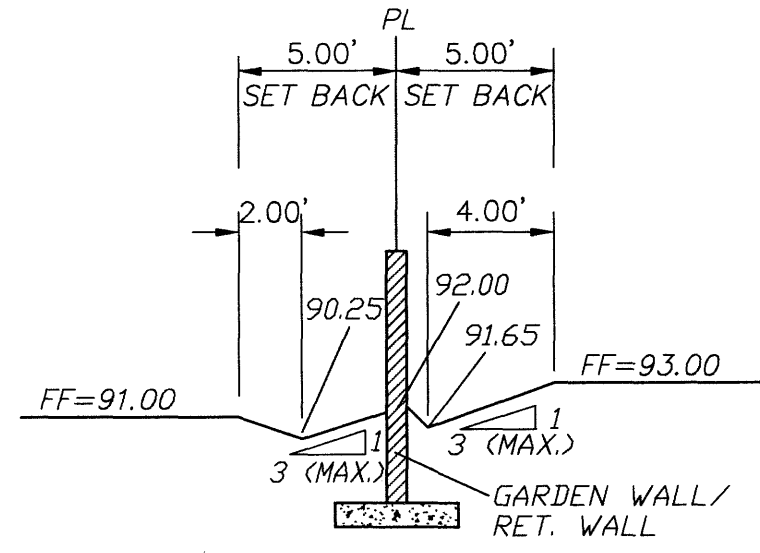
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

City Project No. XXXXXX Zone Map No. C-19-Z Sheet 1 Of 1

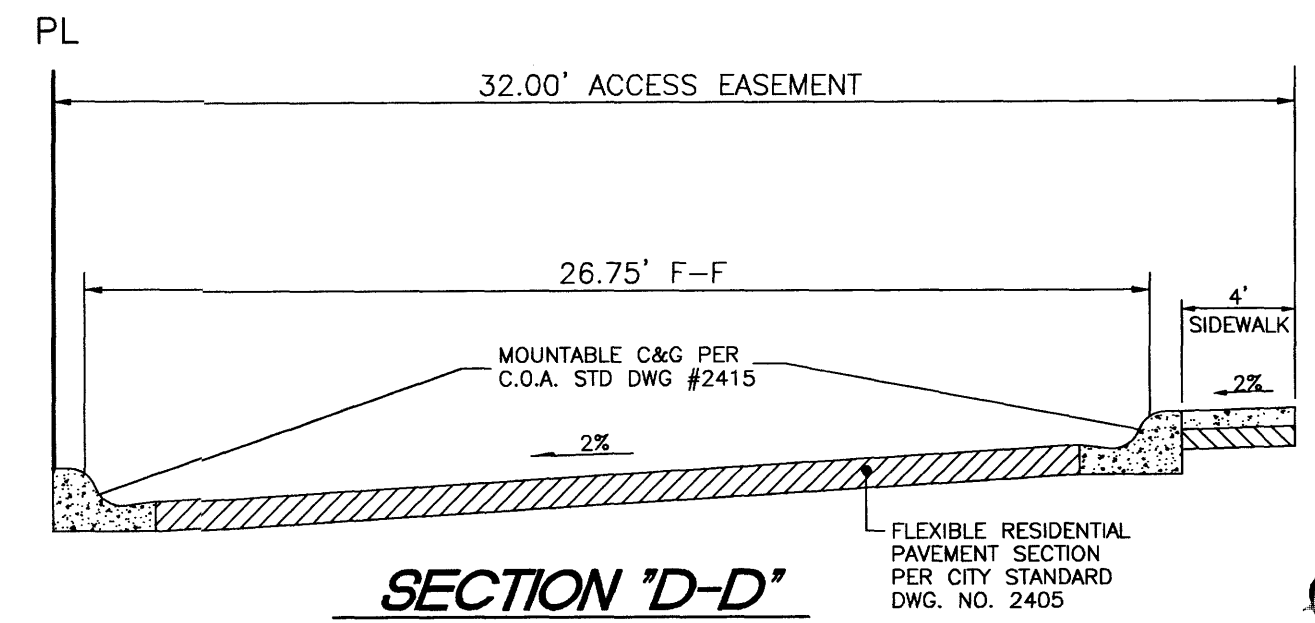
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		DESIGN	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
STAMPED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
FIELD CATCHER BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWINGS	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CORRECTED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



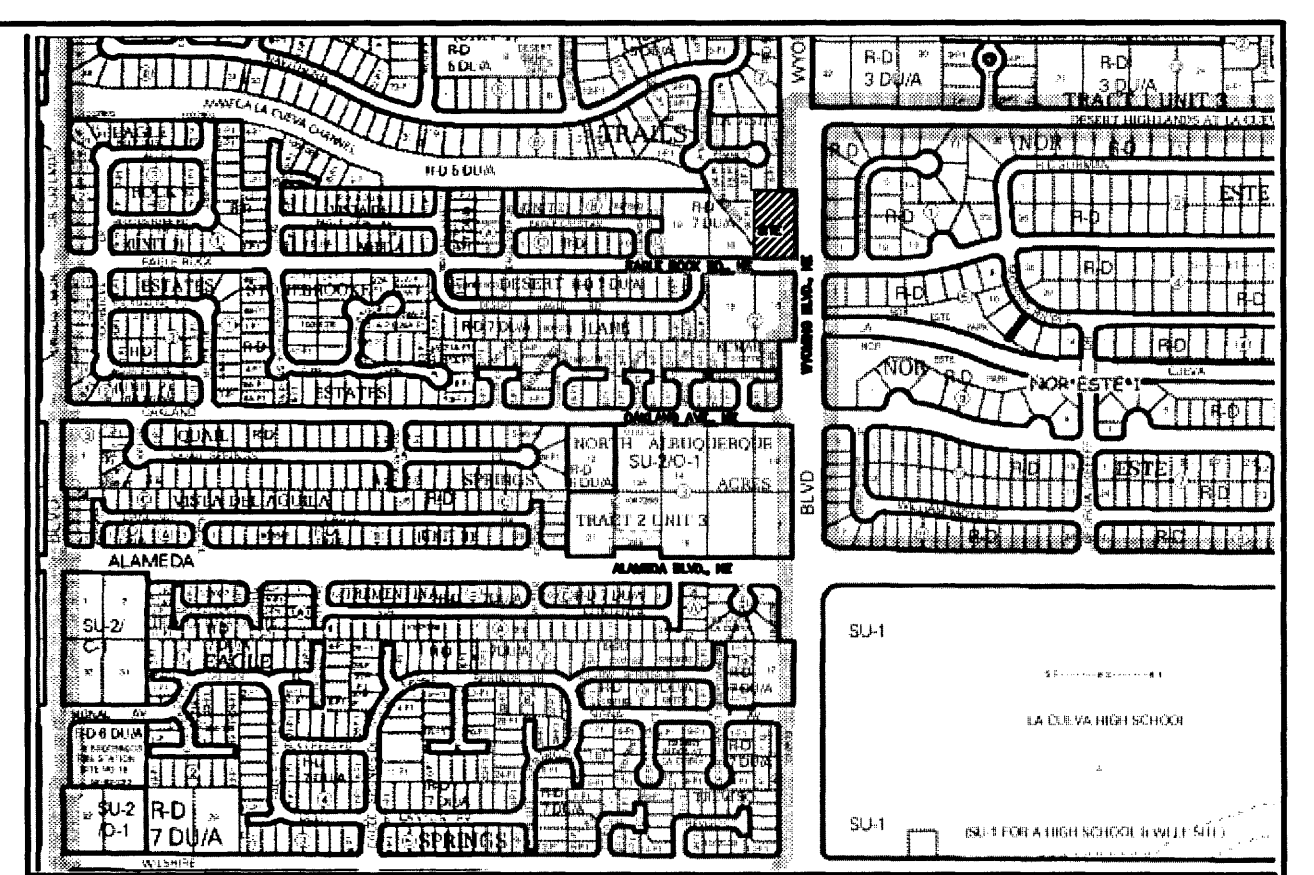
SECTION A-A
NTS



SECTION C-C (TYP.)
NTS



SECTION 'D-D'
NTS



LEGAL DESCRIPTION:
LOT 17, BLOCK 1, NAA, TRACT 2, UNIT 3, CONTAINING 0.7277 ACRE

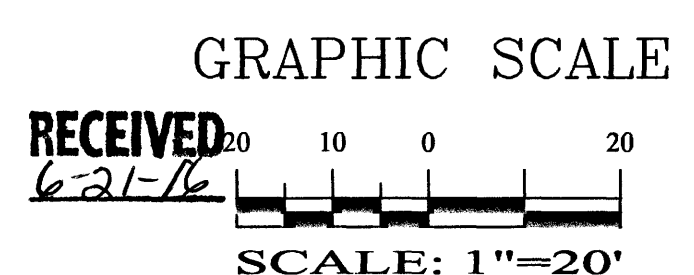
- GENERAL NOTES:
1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
 2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 9. D15, HAVING AN ELEVATION OF 4988.802, FEET ABOVE SEA LEVEL.
 3. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
 4. THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
 5. SLOPES ARE AT 3:1 MAXIMUM.
 6. IF THE DRIVEWAY LOCATIONS CONFLICTS WITH THE PROPOSED LOCATION OF A FIRST FLUSH PONDS, CONTRACTOR MUST RELOCATE THE PONDS WITH THE SAME VOLUME ELSEWHERE ON THE LOT, EXCEPT IN THE REAR LOT AREA.

- NOTICE TO CONTRACTORS
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, 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.
 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

LEGEND

- 5100 EXISTING CONTOUR (MAJOR)
- 5102 EXISTING CONTOUR (MINOR)
- BOUNDARY LINE
- 85.46 PROPOSED SPOT ELEVATION

- 4986.40 EXISTING GRADE
- AC-PA PROPOSED RET. WALL



SBS CONSTRUCTION
AND ENGINEERING, LLC

10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

LOTS 1 THRU 4, ROHAN SUBDIVISION
GRADING AND DRAINAGE PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201605-GR.DWG	SH-B	03-22-2016	1

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = HAYDARI.txt

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1
START RAINFALL TYPE=1										
COMPUTE NM HYD	101.00	-	1	.00017	.30	.008	.92230	1.526	2.731	TIME=0.00
COMPUTE NM HYD	103.00	-	1	.00114	1.93	.056	.92024	1.526	2.646	RAIN=6.2600
START RAINFALL TYPE=1										
COMPUTE NM HYD	111.00	-	1	.00017	.13	.003	.35547	1.533	1.209	PER IMP=.00
COMPUTE NM HYD	113.00	-	1	.00114	1.43	.037	.60463	1.500	1.971	TP=0.1333 HR MASS RAINFALL=-1
START RAINFALL TYPE=1										
COMPUTE NM HYD	103.10	-	1	.00114	3.18	.117	1.93606	1.500	4.368	TIME=0.00
COMPUTE NM HYD	103.10	-	1	.00114	3.18	.117	1.93606	1.500	4.368	RAIN=6.2600
START RAINFALL TYPE=1										
COMPUTE NM HYD	113.10	-	1	.00114	1.99	.070	1.15661	1.500	2.739	PER IMP=.00
COMPUTE NM HYD	113.10	-	1	.00114	1.99	.070	1.15661	1.500	2.739	RAIN=6.2600
FINISH										

REQUIRED FIRST FLUSH PONDING CALCULATIONS

LOT 1-P1, IMPERVIOUS AREA = 5,430 CF
PONDING VOLUME REQUIRED = 5,430 X 0.34/12 = 153.85 CF

LOT 2-P1, IMPERVIOUS AREA = 5,770 CF
PONDING VOLUME REQUIRED = 5,770 X 0.34/12 = 163.48 CF

LOT 3-P1, IMPERVIOUS AREA = 4,547.50 CF
PONDING VOLUME REQUIRED = 4,547.50 X 0.34/12 = 153.85 CF

LOT 4-P1, IMPERVIOUS AREA = 5,142.50 CF
PONDING VOLUME REQUIRED = 5,142.50 X 0.34/12 = 145.70 CF

PROPOSED FIRST FLUSH PONDING VOLUME CALCULATIONS

LOT 1-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 2-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 3-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 4-P1, TOP AREA=312 SF, BOTTOM AREA=120 SF, DEPTH= 1.0'
PONDING VOLUME PROVIDED = (312 + 120)/2 * 1 = 216.00 CF

DRAINAGE PLAN:

LEGAL DESCRIPTION: LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3
SITE AREA: 0.7277 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.

LOCATION AND DESCRIPTION: THE LOT IS LOCATED ON EAGLE ROCK AVENUE WEST OF WYOMING BOULEVARD. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.

THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO THE NORTH LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST AND NORTH.

DEVELOPED DRAINAGE CONDITIONS:

THERE IS ONE OFF-SITE BASINS DRAINING ONTO LOT 17. OFF-SITE BASIN A IS LOCATED NORTH OF LOT 17. RUNOFF FROM OFF-SITE BASIN B WILL DRAIN TO THE POND PROVIDED JUST NORTH OF THE LOT 17, 377.50 CFS. THE PEAK FLOW OF 0.71 CFS WILL BE CONVEYED TO THE POND.

RUNOFF FROM ON-SITE BASIN 1, WHICH INCLUDES ALL OF LOT 17, WILL BE DIRECTED TO EAGLE ROCK AVENUE THROUGH THE PAVED DRIVEWAY. THE ROOF OF THE BUILDINGS WILL DRAIN TO THE WEST AND EAST. EACH LOT WILL HAVE A PONDING AREA FOR THE FIRST FLUSH. AFTER SENDING THE WATER INTO THE PONDS, THEN THE FLOWS WILL BE DIRECTED INTO PAVED ROAD AND FINALLY INTO EAGLE ROCK. A TOTAL OF 2.63 CFS FROM LOT 17 WILL DRAIN TO EAGLE ROCK AVENUE AND WILL DRAIN TO THE NORTH LA CUEVA CHANNEL. THE FIRST FLUSH FROM ON-SITE BASIN 1 WILL BE RETAINED IN THE PONDS PROVIDED ON EACH LOT. THE FIRST FLUSH VOLUME FOR A 0.44-INCH RAIN IS 304 CUBIC-Feet.

LA VISTA AT DESERT RIDGE TRAILS
FILED: 10-03-12, BK. 12C, PAGE 116.

LOT 7-P1

LOT 6-P1

FND. 5/8
RBR

S89°37'50"E (S90°00'00"E)

N84°29'21"E

POB

CHISELED "X"

165.33' (165.00')

2849.61'

S55°10'54"E

TIE TO

3172.98'

LOT 8-P1

264.02' (264.00')

114.55'

LOT 4-P1

7,771.03 S.F.
0.1784 A.C.

LOT 3-P1

7,706.01 S.F.
0.1769 A.C.

5.00'

109.27'

20.00'

S00°09'15"W

68.01'

N89°50'45"W

C2

10.47'

67.50'

135.51'

60.00'

32.00'

N89°50'45"W

104.55'

59.47'

ACCESS EASEMENT

22.00'

N00°14'51"E (N90°00'00"E)

160.61'

30.00'

25.10'

25.10'

FND. 1" PIPE

S00°09'15"W (S90°00'00"W)

165.76' (165.00')

0.2753 ACRE (11993.12 SF.)
DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE.

0.0031 ACRE (135.35 SF.)
DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS.

0.2753 ACRE (11993.12 SF.)
DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE.

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DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE.

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DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE.

0.2753 ACRE (11993.12 SF.)
DEDICATED TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE.

AGRS MONUMENT "1_B20"
NM STATE PLANE COORDINATES
CENTRAL ZONE
X = 1,550,483.349
Y = 1,524,154.945-NAD 1983
EL. = 5477.179-NAVD 1988
G-G = 0.999651137
DELTA ALPHA = -00° 10' 24.45"

PLAT OF LOTS 1-P1 THRU 4-P1 ROHAN SUBDIVISION

WITHIN
SECTION 18, T. 11 N., R. 4 E., N.M.P.M.
AS PROJECTED IN THE ELENA GALLEGOS GRANT
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE 2016

AGRS MONUMENT "7_C19"
NM STATE PLANE COORDINATES
CENTRAL ZONE
X = 1,550,417.138
Y = 1,522,068.520-NAD 1983
EL. = 5485.723-NAVD 1988
G-G = 0.999650745
DELTA ALPHA = -00° 10' 24.78"

EASEMENTS:

- EXISTING 30' ROADWAY EASEMENT (9-10-31, D-21).
- 32.00' PRIVATE ACCESS, PUBLIC DRAINAGE AND UTILITY EASEMENT GRANTED BY THIS PLAT. ALL THE PROPERTY OWNERS ARE RESPONSIBLE FOR THE MAINTENANCE OF THIS EASEMENT.
- 20.00' PRIVATE ACCESS, PUBLIC DRAINAGE UTILITY EASEMENT GRANTED BY THIS PLAT. ALL THE PROPERTY OWNERS ARE RESPONSIBLE FOR THE MAINTENANCE OF THIS EASEMENT.
- EXISTING ACCESS EASEMENT FOR LOT 9-P1 LA VISTA. FILED: 12/17/2012, DOC #2012132615.
- 5.00' PUBLIC DRAINAGE EASEMENT GRANTED BY THIS PLAT. ALL THE PROPERTY OWNERS ARE RESPONSIBLE FOR THE MAINTENANCE OF THIS EASEMENT.

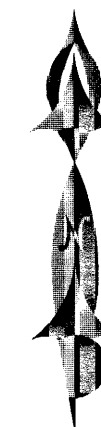
CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD DIRECTION	DELTA
C1	39.37	25.00	25.10	35.42	S45°15'56"W	90°13'23"
C2	23.54	15.00	14.98	21.20	N45°12'03"E	89°54'24"

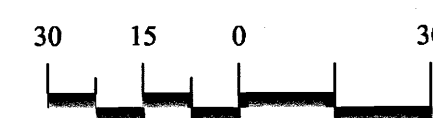
PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE COMMON AND JOINT USE OF:
A. PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM), A NEW MEXICO CORPORATION, (PNM ELECTRIC) FOR INSTALLATION, MAINTENANCE, AND SERVICE OF OVERHEAD AND UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, AND OTHER EQUIPMENT AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICES.
B. NEW MEXICO GAS COMPANY FOR INSTALLATION, MAINTENANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICES.
C. QWEST FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES.
D. CABLE TV FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE SERVICES.

INCLUDED, IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE, CHANGE, REMOVE, REPLACE, MODIFY, RENEW, OPERATE AND MAINTAIN FACILITIES FOR PURPOSES DESCRIBED ABOVE, TOGETHER WITH FREE ACCESS TO, FROM, AND OVER SAID EASEMENTS, WITH THE RIGHT AND PRIVILEGE OF GOING UPON, OVER AND ACROSS ADJOINING LANDS OF GRANTOR FOR THE PURPOSES SET FORTH HEREIN AND WITH THE RIGHT TO UTILIZE THE RIGHT OF WAY AND EASEMENT TO EXTEND SERVICES TO CUSTOMERS OF GRANTEE, INCLUDING SUFFICIENT WORKING AREA SPACE FOR ELECTRIC TRANSFORMERS, WITH THE RIGHT AND PRIVILEGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSES SET FORTH HEREIN. NO BUILDING, SIGN, POOL (ABOVEGROUND OR SUBSURFACE), HOT TUB, CONCRETE OR WOOD POOL DECKING, OR OTHER STRUCTURE SHALL BE ERRECTED OR CONSTRUCTED ON SAID EASEMENTS, NOR SHALL ANY WELL BE DRILLED OR OPERATED THEREON. PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRICAL SAFETY CODE BY CONSTRUCTION OF POOLS, DECKING, OR ANY STRUCTURES ADJACENT TO OR NEAR EASEMENTS SHOWN ON THIS PLAT.
EASEMENTS FOR ELECTRIC TRANSFORMER/SWITCHGEARS, AS INSTALLED, SHALL EXTEND TEN (10) FEET IN FRONT OF TRANSFORMER/SWITCHGEAR DOORS AND FIVE (5) FEET ON EACH SIDE.
DISCLAIMER
IN APPROVING THIS PLAT, PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM) AND NEW MEXICO GAS COMPANY (NMGC) DID NOT CONDUCT A TITLE SEARCH OF THE PROPERTIES SHOWN HEREON. CONSEQUENTLY, PNM AND NMGC DO NOT WAIVE OR RELEASE ANY EASEMENT OR EASEMENT RIGHTS WHICH MAY HAVE BEEN GRANTED BY PRIOR PLAT, REPLAT OR OTHER DOCUMENT AND WHICH ARE NOT SHOWN ON THIS PLAT.



GRAPHIC SCALE



SCALE: 1"=30'

RECEIVED
6-2-16

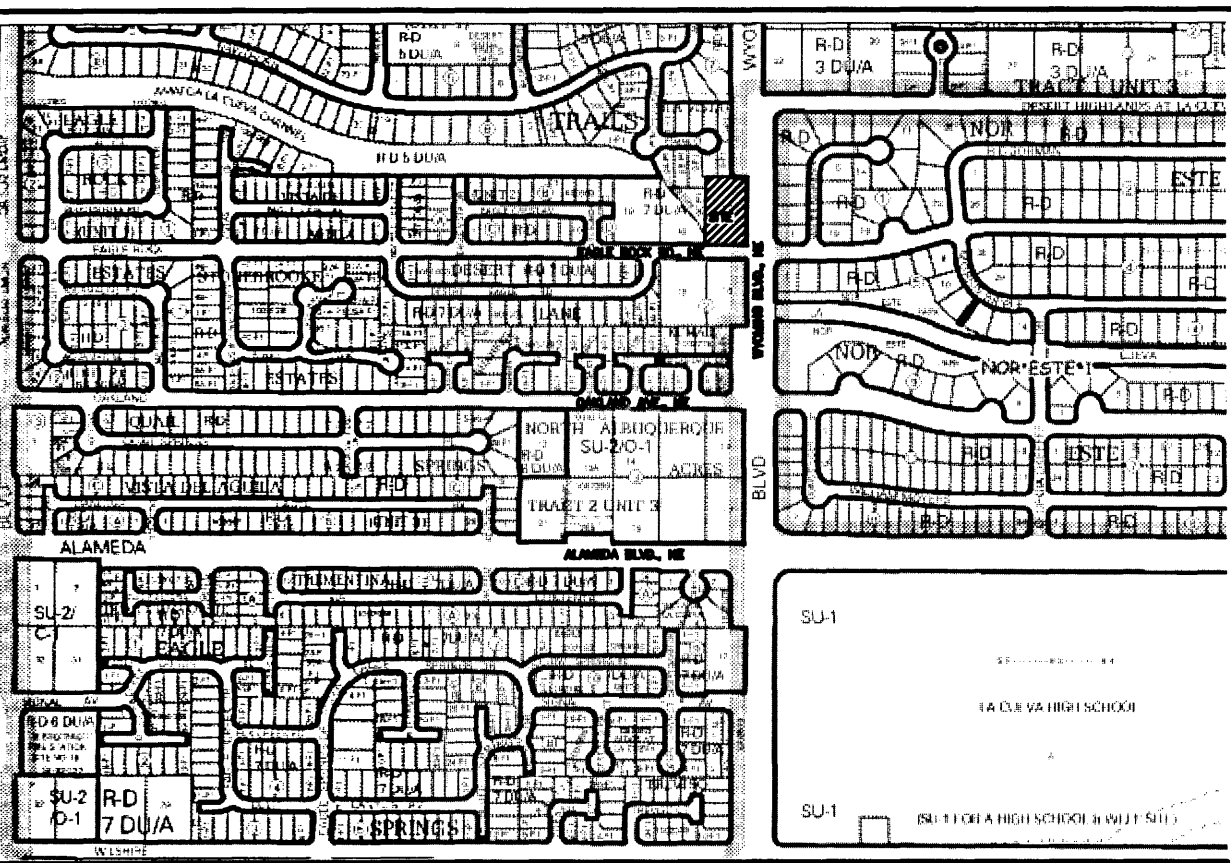
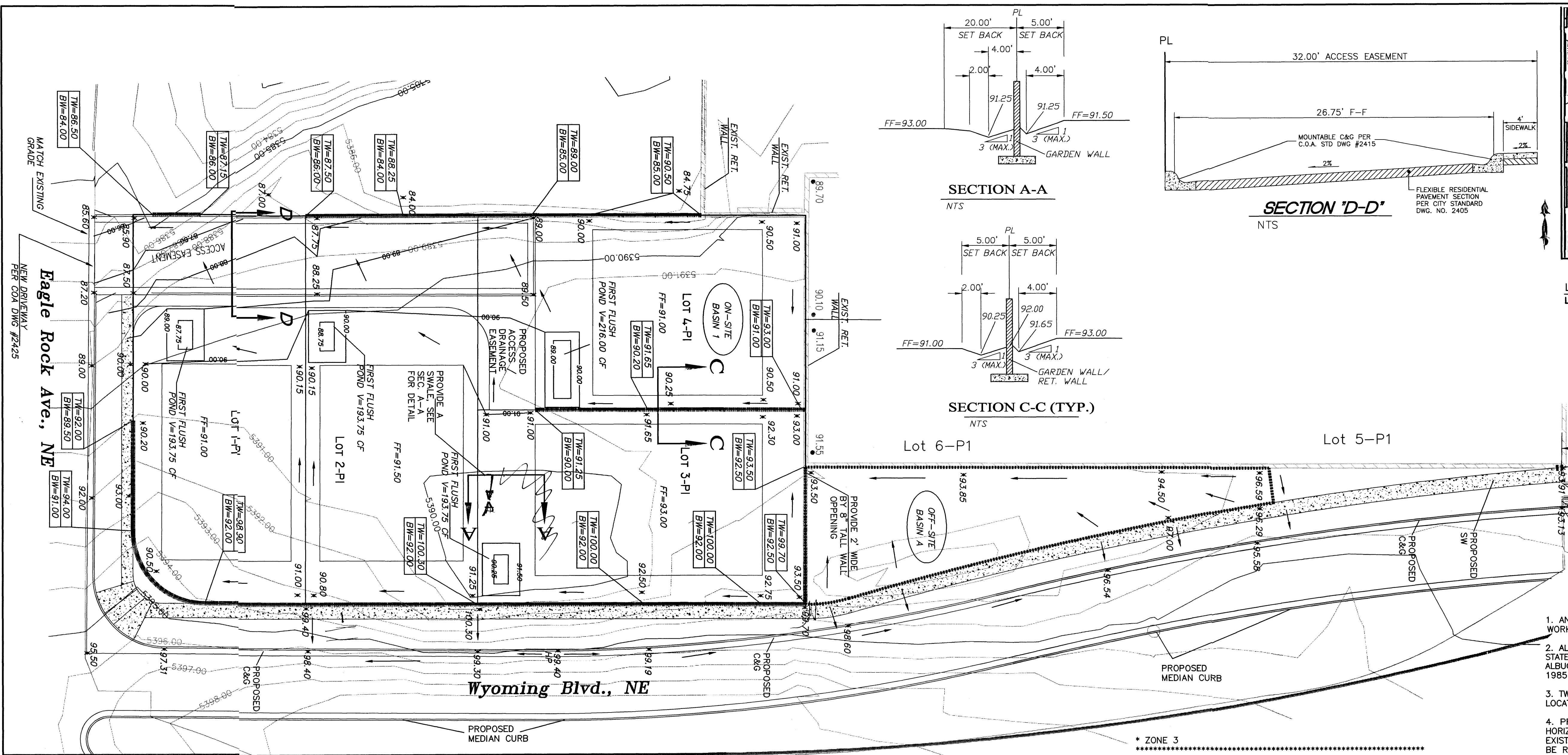
SBS CONSTRUCTION
AND ENGINEERING, LLC

10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

SHEET 2 OF 2

Eagle Rock Ave., NE
(60' Roadway Easement)

La Cueva Channel
(R/W Varies)



VICINITY MAP: C-19-Z

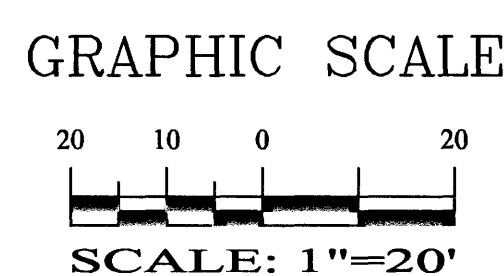
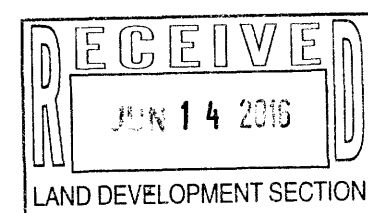
LEGAL DESCRIPTION:
LOT 17, BLOCK 1, NAA, TRACT 2, UNIT 3, CONTAINING 0.7277 ACRE

- GENERAL NOTES:
1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
 2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 9.D15, HAVING AN ELEVATION OF 4988.802 FEET ABOVE SEA LEVEL.
 3. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
 4. THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
 5. SLOPES ARE AT 3:1 MAXIMUM.
 6. IF THE DRIVEWAY LOCATIONS CONFLICTS WITH THE PROPOSED LOCATION OF A FIRST FLUSH PONDS, CONTRACTOR MUST RELOCATE THE PONDS WITH THE SAME VOLUME ELSEWHERE ON THE LOT, EXCEPT IN THE REAR LOT AREA.

- NOTICE TO CONTRACTORS
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, 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.
 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

LEGEND

- 5100 — EXISTING CONTOUR (MAJOR)
- 5102 — EXISTING CONTOUR (MINOR)
- — BOUNDARY LINE
- ✱ 85.46 PROPOSED SPOT ELEVATION
- ✱ 4986.40 EXISTING GRADE
- AC-PA
- PROPOSED RET. WALL



SBS CONSTRUCTION AND ENGINEERING, LLC

10209 SNOWFLAKE CT. NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

LOTS 1 THRU 4, ROHAN SUBDIVISION
GRADING AND DRAINAGE PLAN

DRAWING: 201605-GR.DWG DRAWN BY: SH-B DATE: SHEET #

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = HAYDARI.txt

VERSION: 1997.02d RUN DATE (MON/DAY/YR) = 04/24/2016
USER NO. = AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1
START RAINFALL TYPE= 1										
COMPUTE NM HYD	101.00	-	1	.00017	.30	.008	.92230	1.526	2.731	PER IMP= .00
COMPUTE NM HYD	103.00	-	1	.00114	1.93	.056	.92024	1.526	2.646	PER IMP= .00
START RAINFALL TYPE= 1										
COMPUTE NM HYD	111.00	-	1	.00017	.13	.003	.35547	1.533	1.209	PER IMP= .00
COMPUTE NM HYD	113.00	-	1	.00114	1.43	.037	.60463	1.500	1.971	PER IMP= .00
START RAINFALL TYPE= 1										
COMPUTE NM HYD	103.10	-	1	.00114	3.18	.117	1.93606	1.500	4.368	PER IMP= 68.00
START RAINFALL TYPE= 1										
COMPUTE NM HYD	113.10	-	1	.00114	1.99	.070	1.15661	1.500	2.739	PER IMP= 68.00
FINISH										

REQUIRED FIRST FLUSH PONDING CALCULATIONS

LOT 1-P1, IMPERVIOUS AREA = 5,430 CF
PONDING VOLUME REQUIRED = 5,430 X 0.34/12 = 153.85 CF

LOT 2-P1, IMPERVIOUS AREA = 5,770 CF
PONDING VOLUME REQUIRED = 5,770 X 0.34/12 = 163.48 CF

LOT 3-P1, IMPERVIOUS AREA = 4,547.50 CF
PONDING VOLUME REQUIRED = 4,547.50 X 0.34/12 = 153.85 CF

LOT 4-P1, IMPERVIOUS AREA = 5,142.50 CF
PONDING VOLUME REQUIRED = 5,142.50 X 0.34/12 = 145.70 CF

PROPOSED FIRST FLUSH PONDING VOLUME CALCULATIONS

LOT 1-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 2-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 3-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
PONDING VOLUME PROVIDED = (260 + 50)/2 * 1 = 193.75 CF

LOT 4-P1, TOP AREA=312 SF, BOTTOM AREA=120 SF, DEPTH= 1.0'
PONDING VOLUME PROVIDED = (312 + 120)/2 * 1 = 216.00 CF

DRAINAGE PLAN:

LEGAL DESCRIPTION: LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3

SITE AREA: 0.7277 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.

LOCATION AND DESCRIPTION: THE LOT IS LOCATED ON EAGLE ROCK AVENUE WEST OF WYOMING BOULEVARD. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.

EXISTING DRAINAGE CONDITIONS:

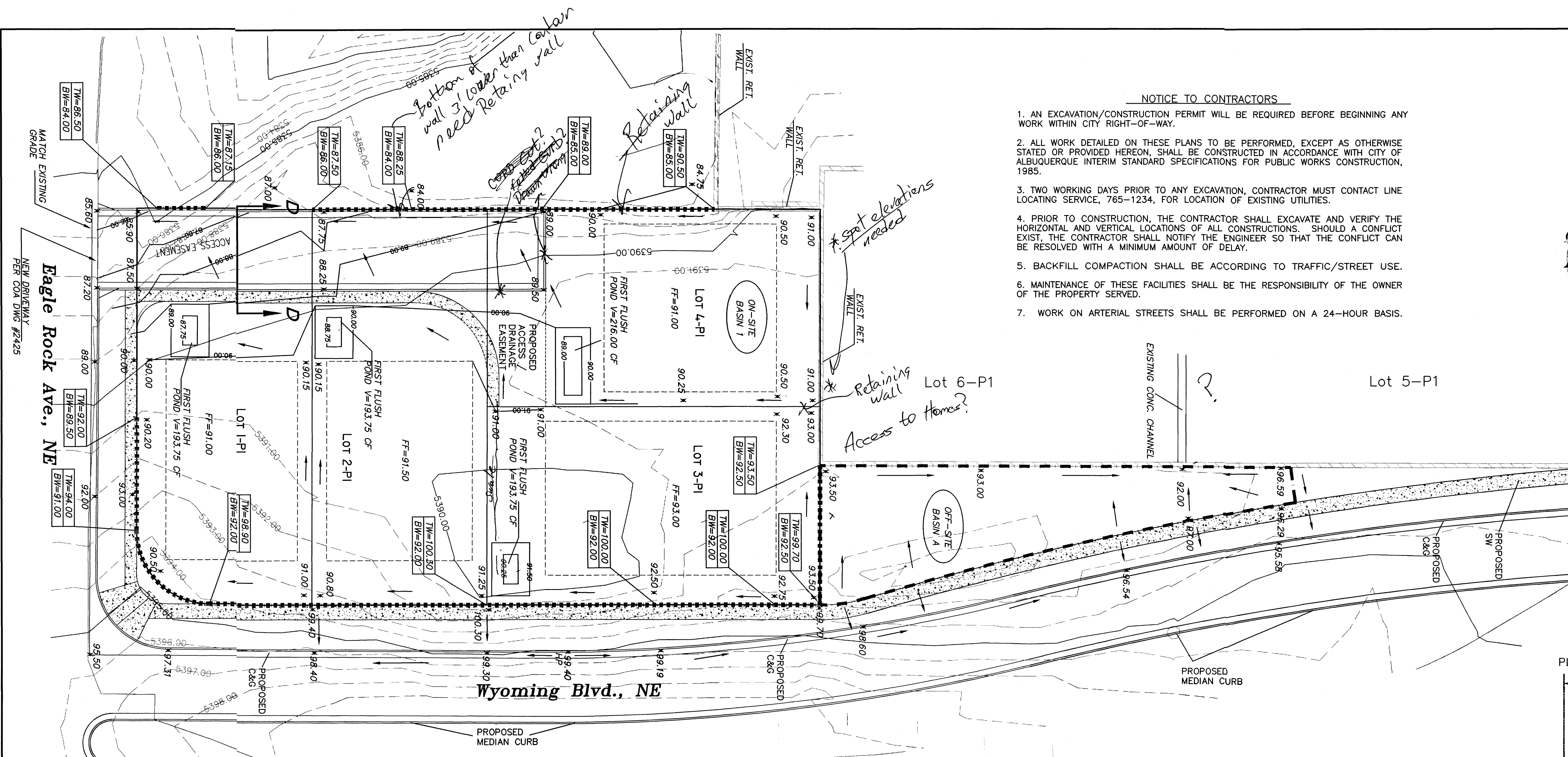
THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.

THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO THE NORTH LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST AND NORTH.

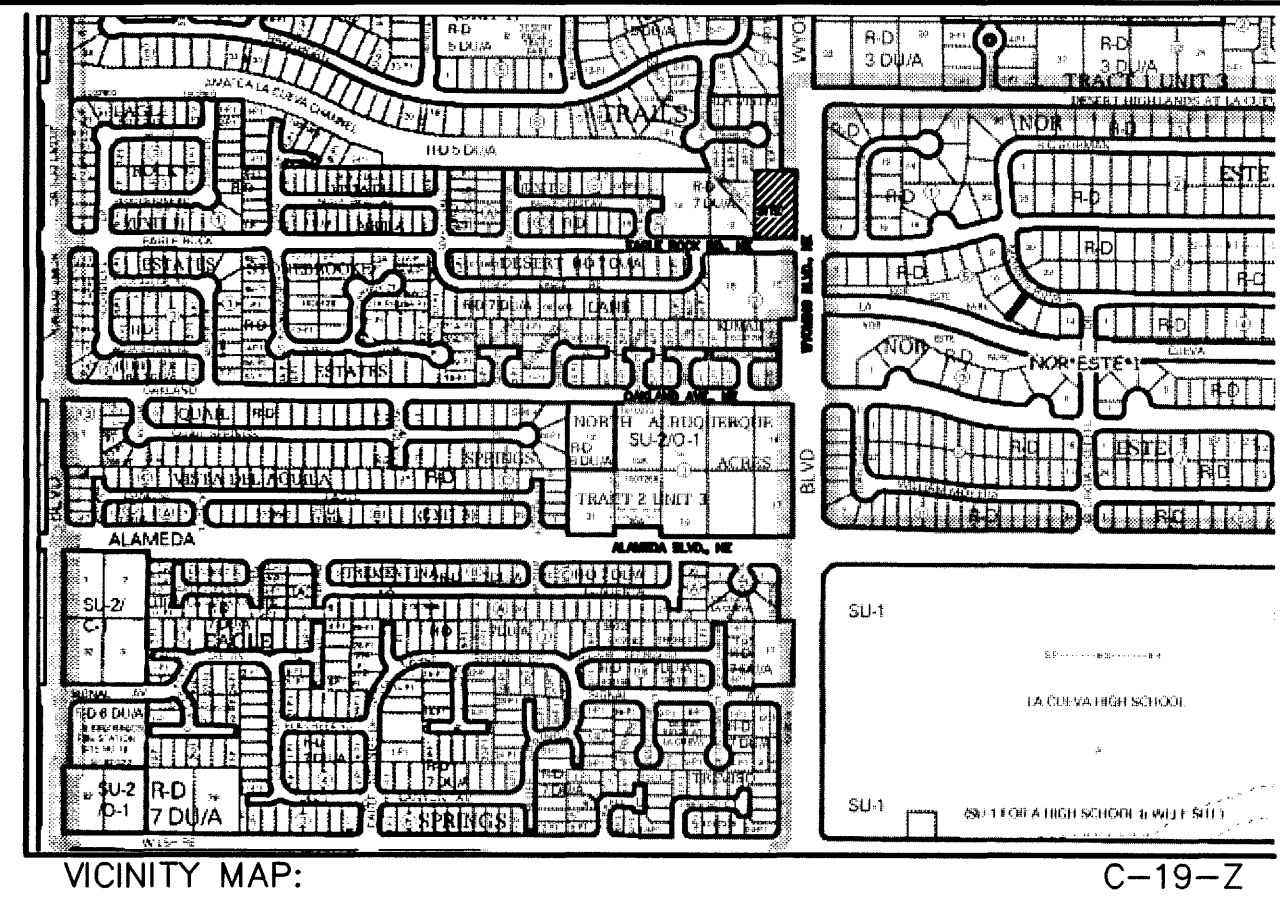
DEVELOPED DRAINAGE CONDITIONS:

THERE IS ONE OFF-SITE BASINS DRAINING ONTO LOT 17. OFF-SITE BASIN A IS LOCATED NORTH OF LOT 17. RUNOFF FROM OFF-SITE BASIN B WILL DRAIN TO THE POND PROVIDED JUST NORTH OF THE LOT 17, 377.50 CFS. THE PEAK FLOW OF 0.71 CFS WILL BE CONVEYED TO THE POND.

RUNOFF FROM ON-SITE BASIN 1, WHICH INCLUDES ALL OF LOT 17, WILL BE DIRECTED TO EAGLE ROCK AVENUE THROUGH THE PAVED DRIVEWAY. THE ROOF OF THE BUILDINGS WILL DRAIN TO THE WEST AND EAST. EACH LOT WILL HAVE A PONDING AREA FOR THE FIRST FLUSH. AFTER SENDING THE WATER INTO THE PONDS, THEN THE FLOWS WILL BE DIRECTED INTO PAVED ROAD AND FINALLY INTO EAGLE ROCK. A TOTAL OF 2.63 CFS FROM LOT 17 WILL DRAIN TO EAGLE ROCK AVENUE AND WILL DRAIN TO THE NORTH LA CUEVA CHANNEL. THE FIRST FLUSH FROM ON-SITE BASIN 1 WILL BE RETAINED IN THE PONDS PROVIDED ON EACH LOT. THE FIRST FLUSH VOLUME FOR A 0.44-INCH RAIN IS 304 CUBIC-Feet.

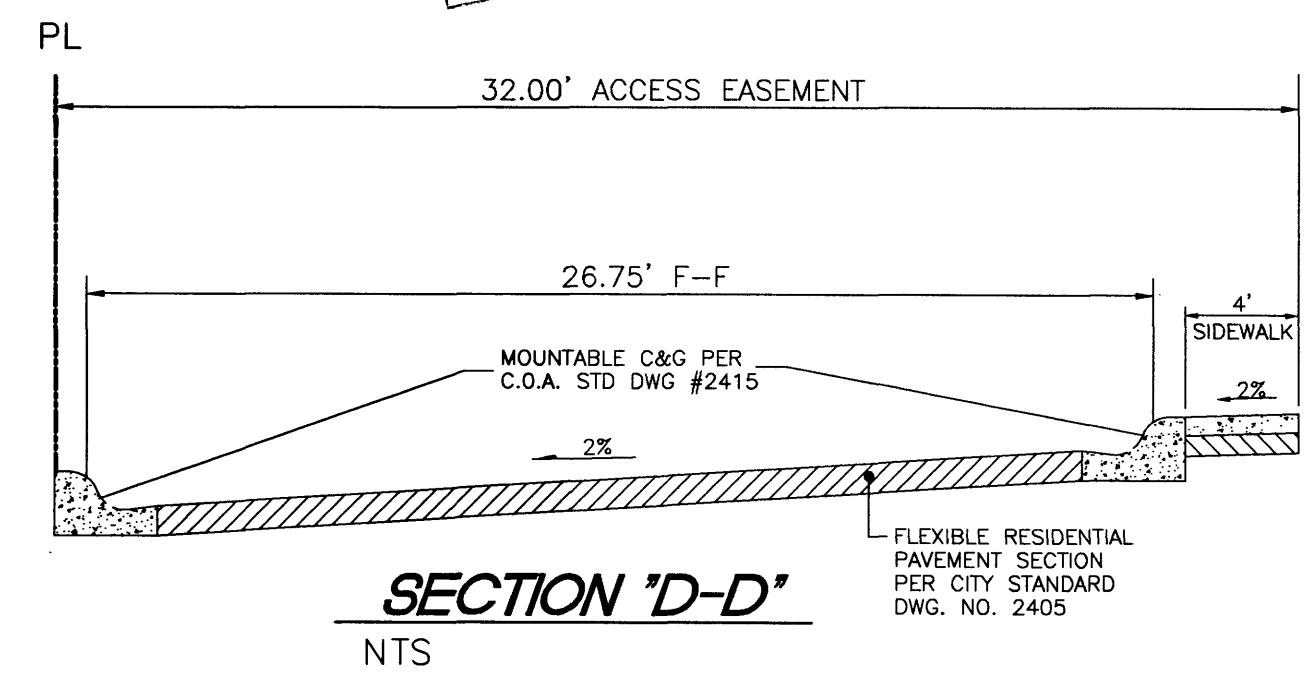


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LEGAL DESCRIPTION:
LOT 17, BLOCK 1, NAA, TRACT 2, UNIT 3, CONTAINING 0.7277 ACRE

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 3. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
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AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = HAYDARI.txt
- VERSION: 1997.02d RUN DATE (MON/DAY/YR) = 04/24/2016
USER NO = AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1
START RAINFALL TYPE=1										
COMPUTE NM HYD	101.00	-	1	.00017	.30	.008	.92230	1.526	2.731	RAIN6= 2.600
COMPUTE NM HYD	103.00	-	1	.00114	1.93	.056	.92024	1.526	2.646	PER IMP= .00
START RAINFALL TYPE=1										
COMPUTE NM HYD	111.00	-	1	.00017	.13	.003	.35547	1.533	1.209	RAIN6= 1.730
COMPUTE NM HYD	113.00	-	1	.00114	1.43	.037	.60463	1.500	1.971	PER IMP= .00
START RAINFALL TYPE=1										
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START RAINFALL TYPE=1										
COMPUTE NM HYD	113.10	-	1	.00114	1.99	.070	1.15661	1.500	2.739	PER IMP= 68.00
FINISH										

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LOT 2-P1, IMPERVIOUS AREA = 5,770 CF
PONDING VOLUME REQUIRED = 5,770 X 0.34/12 = 163.48 CF
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LOT 1-P1, TOP AREA=260 SF, BOTTOM AREA=50 SF, DEPTH= 1.25'
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PONDING VOLUME PROVIDED = (312 + 120)/2 * 1 = 216.00 CF

- * ZONE 3

100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)

START RAINFALL TIME=0.0
TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=2.14 IN RAIN SIX=2.60 IN
RAIN DELAY=3.10 IN DT=0.00512 HR
* OFF-STIE BASIN A
COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.000169 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE
COMPUTE NM HYD ID=1 HYD NO=103.0 AREA=0.001137 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=0.1333 HR MASS RAINFALL=-1

10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)

START RAINFALL TIME=0.0
TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.43 IN RAIN SIX=1.73 IN
RAIN DAY=2.07 IN DT=0.03333 HR
* OFF-STIE BASIN A
COMPUTE NM HYD ID=1 HYD NO=111.0 AREA=0.000169 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE
COMPUTE NM HYD ID=1 HYD NO=113.0 AREA=0.001137 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=0.1333 HR MASS RAINFALL=-1

100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)

START RAINFALL TIME=0.0
TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=2.14 IN RAIN SIX=2.60 IN
RAIN DELAY=3.10 IN DT=0.03333 HR
* ON-SITE
COMPUTE NM HYD ID=1 HYD NO=103.1 AREA=0.001137 SQ MI
PER A=0.00 PER B=20.00 PER C=12.00 PER D=68.00
TP=0.1333 HR MASS RAINFALL=-1

10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)

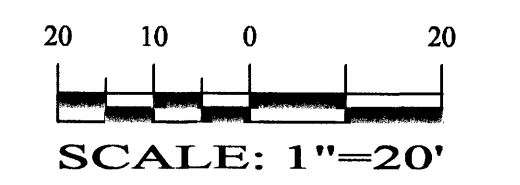
START RAINFALL TIME=0.0
TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.43 IN RAIN SIX=1.73 IN
RAIN DAY=2.07 IN DT=0.03333 HR
* ON-SITE
COMPUTE NM HYD ID=1 HYD NO=113.1 AREA=0.001137 SQ MI
PER A=0.00 PER B=20.00 PER C=12.00 PER D=68.00
TP=0.1333 HR MASS RAINFALL=-1

FINISH

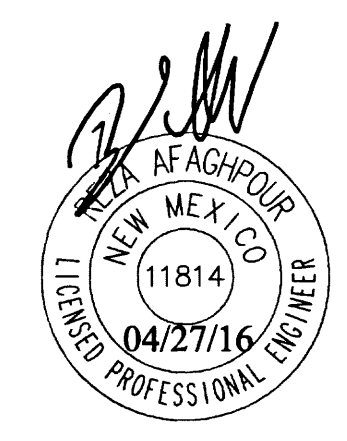
LEGEND

- 5100--- EXISTING CONTOUR (MAJOR)
- 5102--- EXISTING CONTOUR (MINOR)
- BOUNDARY LINE
- * 85.46 PROPOSED SPOT ELEVATION
- x 4986.40 EXISTING GRADE
- ■ ■ ■ ■ PROPOSED BERM

GRAPHIC SCALE



SBS CONSTRUCTION AND ENGINEERING, LLC



REZA AFAGHPOUR
P.E. #11814

10209 SNOWFLAKE CT, NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

LOTS 1 THRU 4, ROHAN SUBDIVISION
GRADING AND DRAINAGE PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201605-GR.DWG	SH-B	03-22-2016	1

DRAINAGE PLAN:
LEGAL DESCRIPTION: LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3
SITE AREA: 0.7277 ACRES
FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.
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*2.9 acres
No ESC*

Where is Basin B?

Coordinate plan w/ Dave Thompson's project on adjacent lot

Blocks access easement

Cross lot drainage easement needed

Show how this area should be managed

What are the limits of construction? How are the concepts the Eagle Rock driveway needs to be built enough to handle the concentrated flow

Show full calculations not just a "sample"

Provide contours

* ZONE 3	

* 100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)	

START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.14 IN RAIN SIX=2.60 IN RAIN DELAY=3.10 IN DT=0.00512 HR
* OFF-SITE A COMPUTE NM HYD	ID=1 HYD NO=101.0 AREA=0.000396 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1
* OFF-SITE B COMPUTE NM HYD	ID=1 HYD NO=102.0 AREA=0.000592 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=103.0 AREA=0.001137 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1

* 10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)	

START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=1.43 IN RAIN SIX=1.73 IN RAIN DAY=2.07 IN DT=0.03333 HR
* OFF-SITE A COMPUTE NM HYD	ID=1 HYD NO=111.0 AREA=0.000396 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1
* OFF-SITE B COMPUTE NM HYD	ID=1 HYD NO=112.0 AREA=0.000592 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=113.0 AREA=0.001137 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1

* 100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)	

START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.14 IN RAIN SIX=2.60 IN RAIN DELAY=3.10 IN DT=0.03333 HR
* ON-SITE COMPUTE NM HYD	ID=1 HYD NO=103.1 AREA=0.001137 SQ MI PER A=0.00 PER B=100.00 PER C=27.00 PER D=46.00 TP=0.1333 HR MASS RAINFALL=-1

* 10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)	

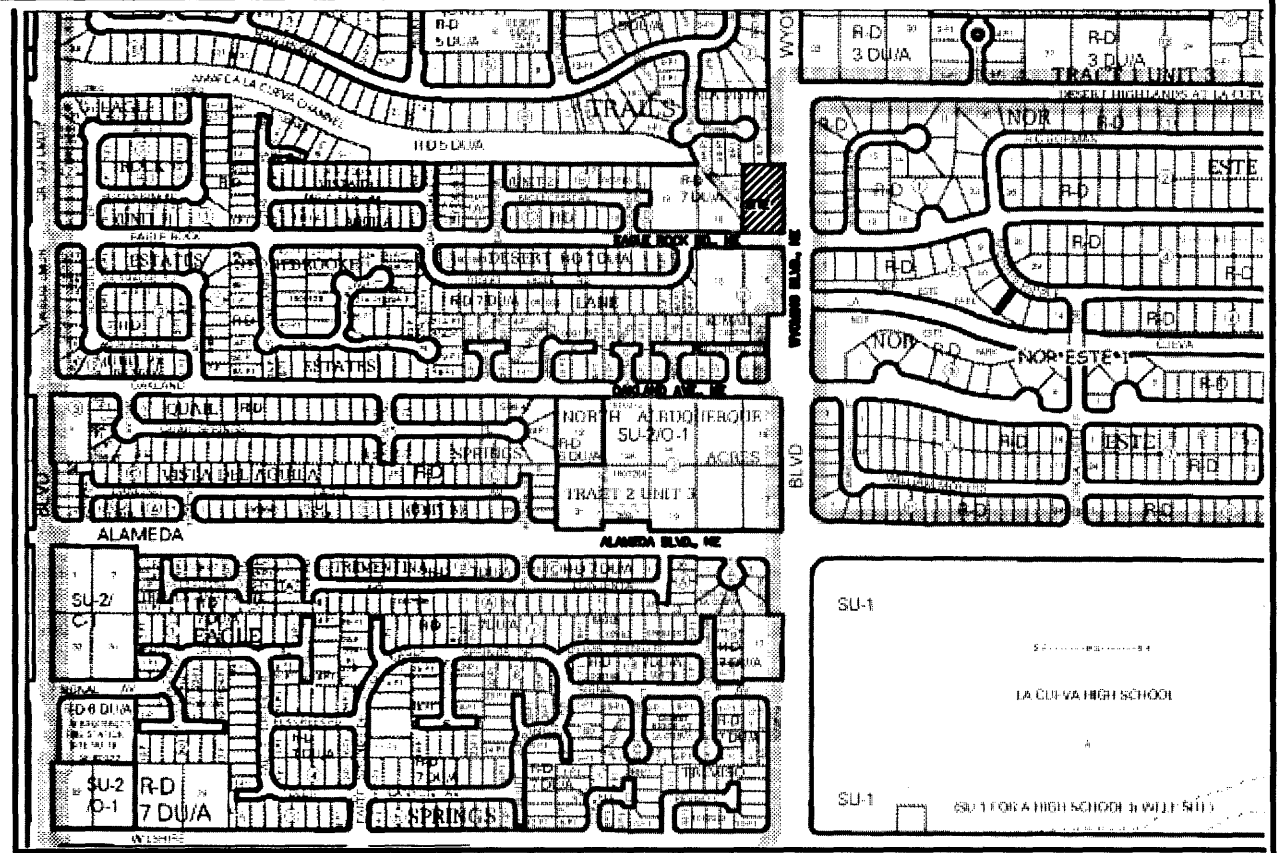
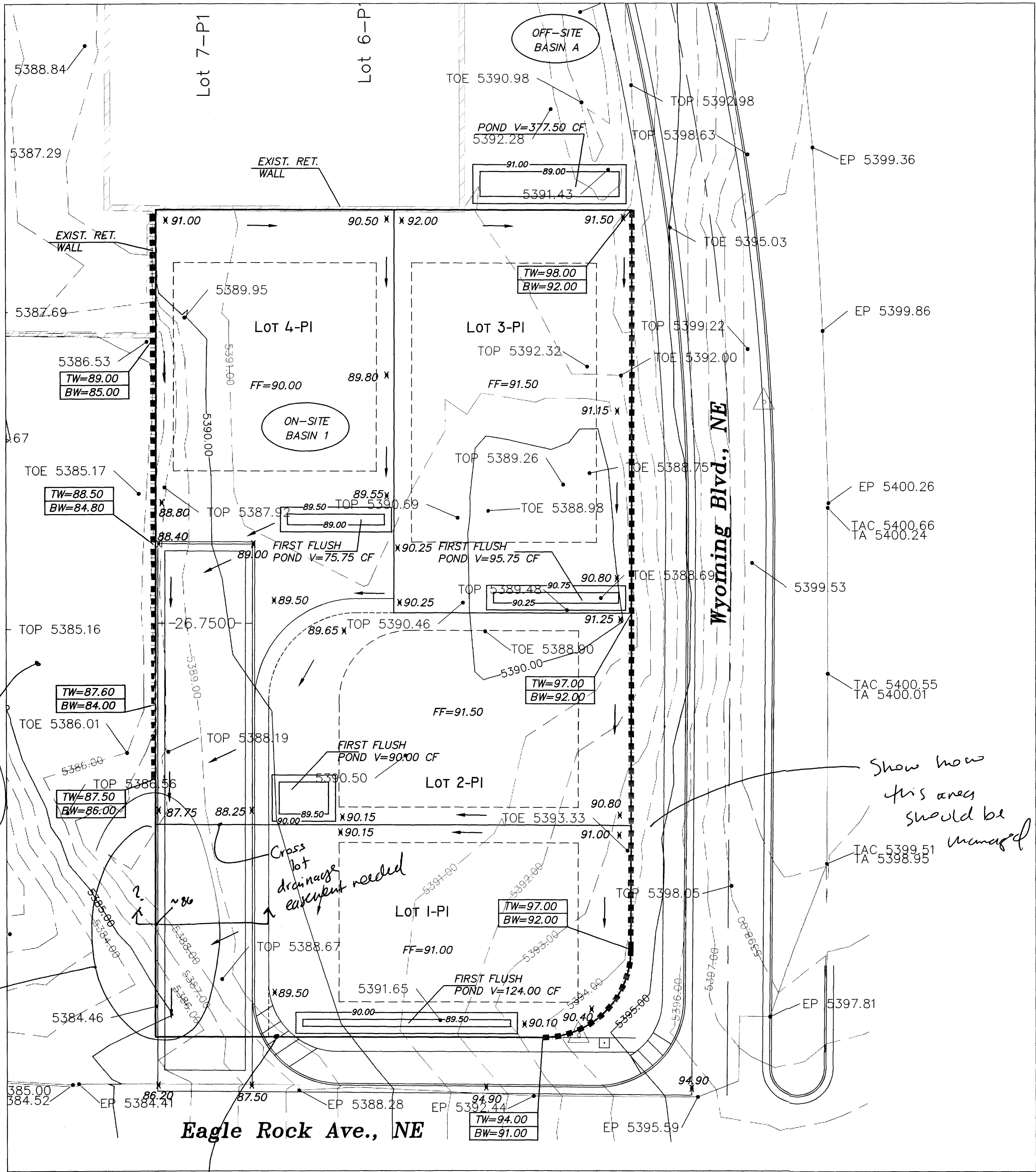
START RAINFALL	TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=1.43 IN RAIN SIX=1.73 IN RAIN DAY=2.07 IN DT=0.03333 HR
COMPUTE NM HYD	ID=1 HYD NO=113.1 AREA=0.001137 SQ MI PER A=0.00 PER B=100.00 PER C=27.00 PER D=46.00 TP=0.1333 HR MASS RAINFALL=-1

FINISH	

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
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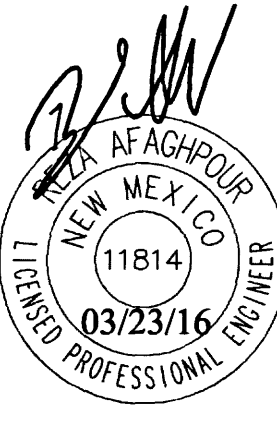
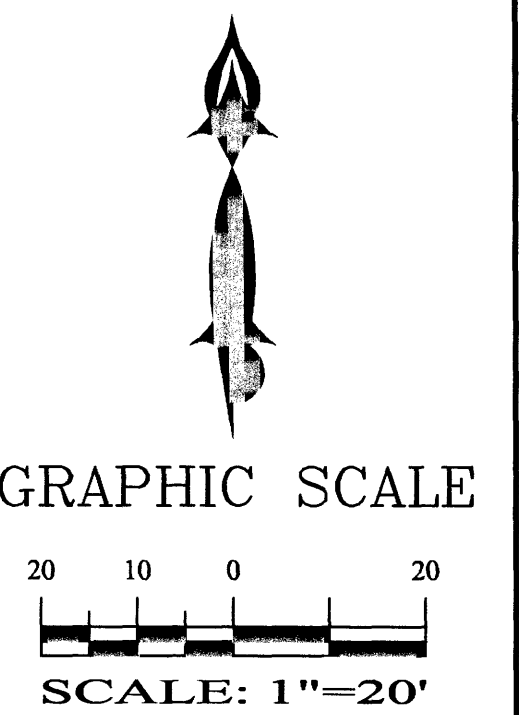
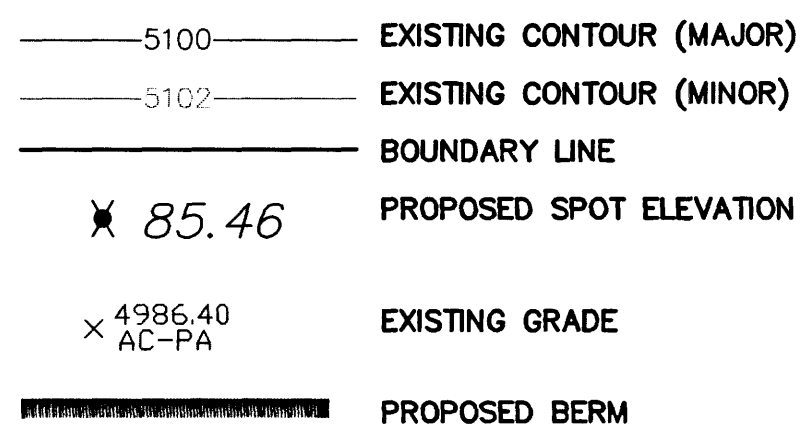
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START RAINFALL	TYPE=1									
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COMPUTE NM HYD	ID=1	102.00	1	.00059	1.01	.029	.92212	1.526	2.659	PER IMP= .00
COMPUTE NM HYD	ID=1	103.00	1	.00114	1.93	.056	.92024	1.526	2.646	PER IMP= .00
START RAINFALL	TYPE=1									
COMPUTE NM HYD	ID=1	111.00	1	.00040	.30	.008	.35547	1.533	1.183	PER IMP= .00
COMPUTE NM HYD	ID=1	112.00	1	.00059	.45	.011	.35547	1.533	1.178	PER IMP= .00
COMPUTE NM HYD	ID=1	113.00	1	.00114	1.43	.037	.60463	1.500	1.971	PER IMP= .00
START RAINFALL	TYPE=1									
COMPUTE NM HYD	ID=1	103.10	1	.00114	3.25	.119	1.96128	1.500	4.464	PER IMP= 63.01
COMPUTE NM HYD	ID=1	113.10	1	.00114	2.07	.071	1.16607	1.500	2.842	PER IMP= 63.01



VICINITY MAP: C-19-Z
LEGAL DESCRIPTION:
LOT 17, BLOCK 1, NAA, TRACT 2, UNIT 3, CONTAINING 0.7277 ACRE

- NOTICE TO CONTRACTORS
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, 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.
 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

- GENERAL NOTES:
1. CONTOUR INTERVAL IS HALF (1.00) FOOT.
 2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION 20_C18, HAVING AN ELEVATION OF 5393.48 FEET ABOVE SEA LEVEL.
 3. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
 4. THIS IS NOT A BOUNDARY SURVEY. BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
 5. SLOPES ARE AT 3:1 MAXIMUM.

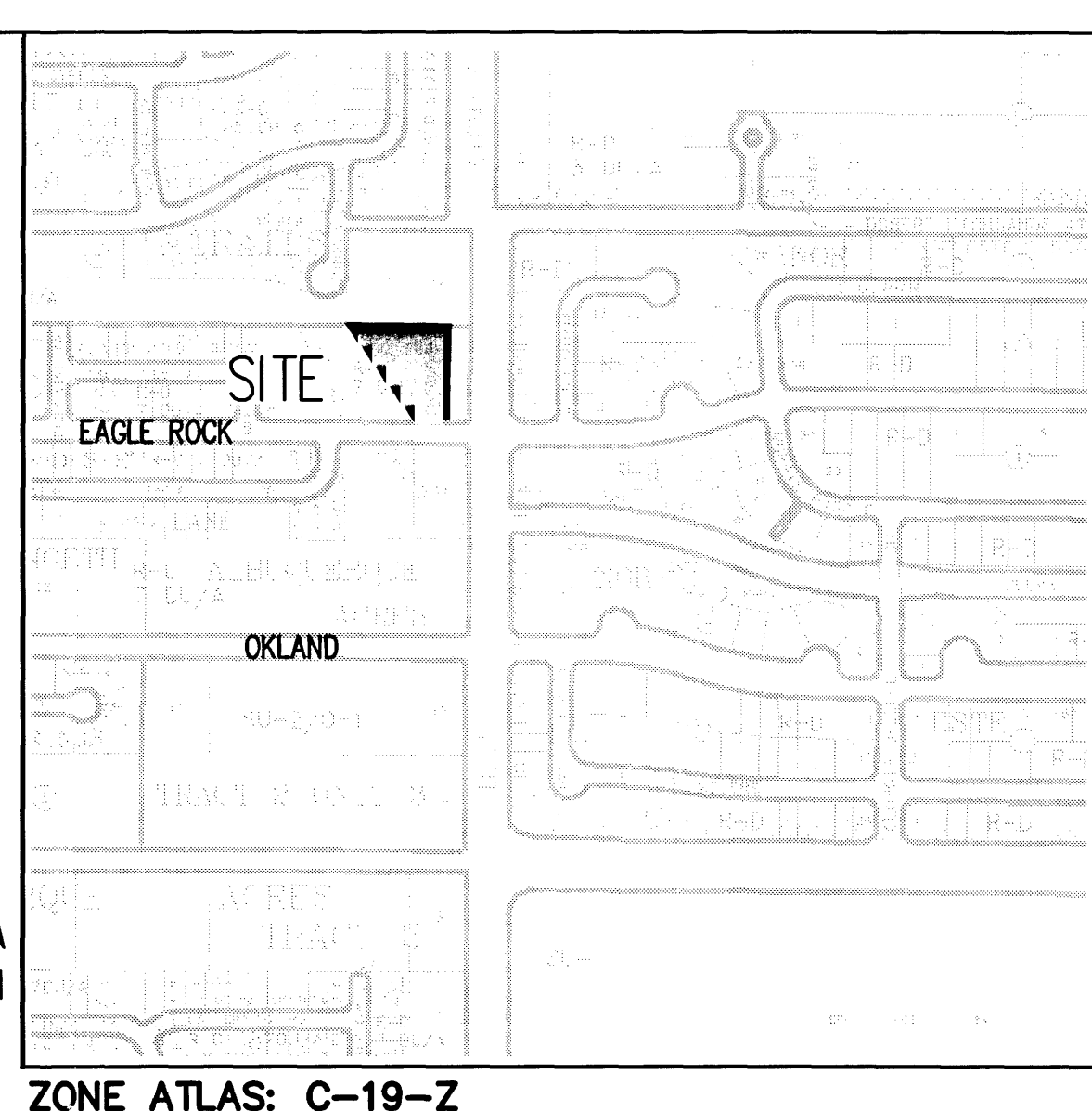
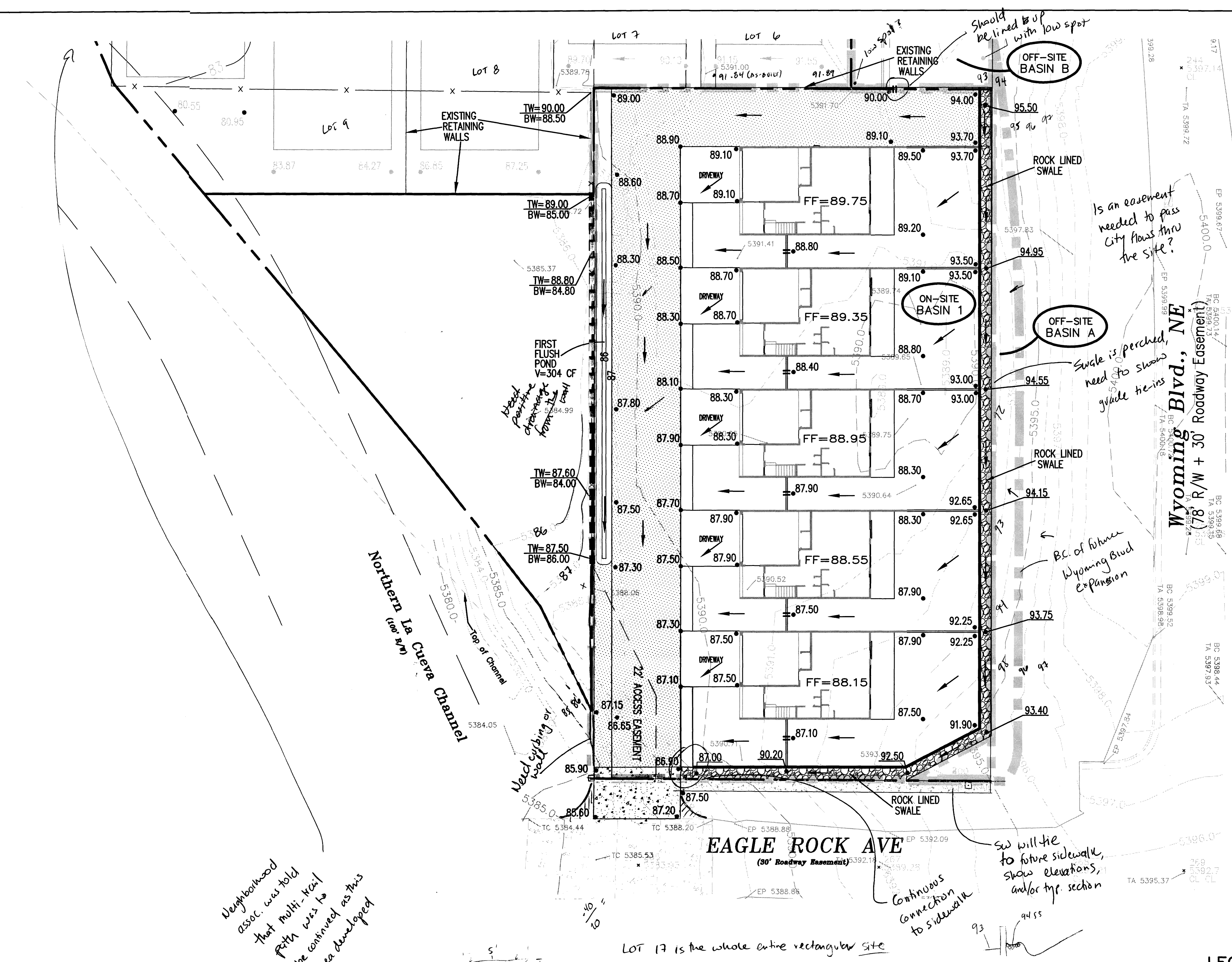


SBS CONSTRUCTION AND ENGINEERING, LLC

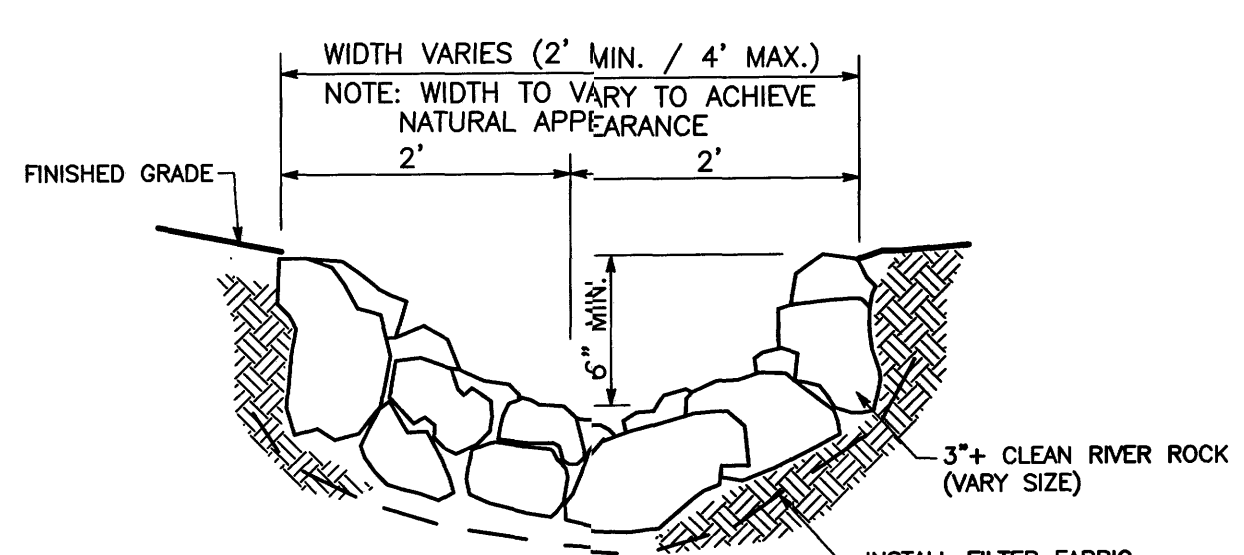
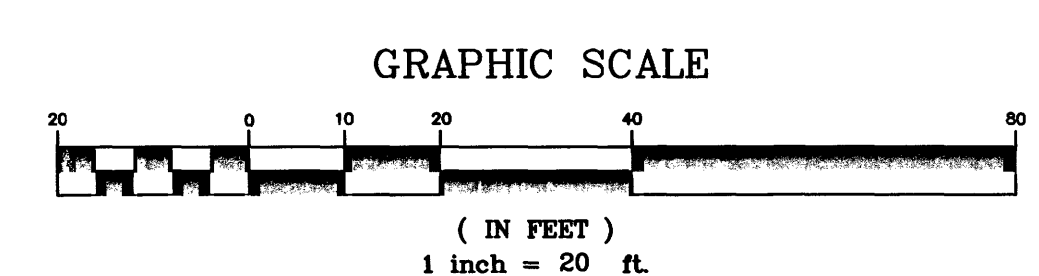
10209 SNOWFLAKE CT., NW
ALBUQUERQUE, NEW MEXICO 87114
(505)804-5013

LOTS 1 THRU 4, ROHAN SUBDIVISION
GRADING AND DRAINAGE PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
201605-GR.DWG	SH-B	03-22-2016	1

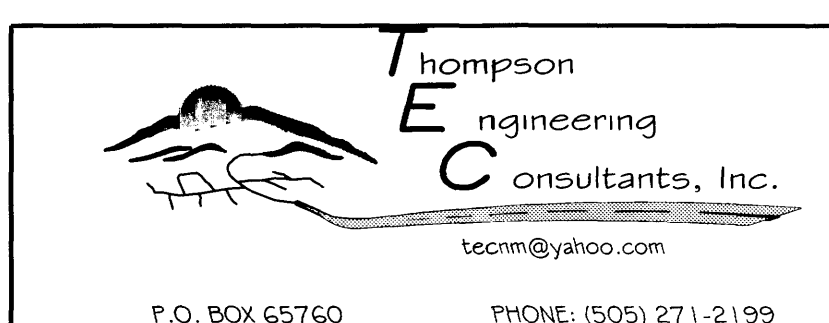


DRAINAGE PLAN:
LEGAL DESCRIPTION: LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3
SITE AREA: 0.7277 ACRES
FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.
LOCATION AND DESCRIPTION: THE LOT IS LOCATED ON EAGLE ROCK AVENUE WEST OF WYOMING BOULEVARD. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.
EXISTING DRAINAGE CONDITIONS:
THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.
THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO THE NORTH LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST AND NORTH.
DEVELOPED DRAINAGE CONDITIONS:
THERE ARE TWO OFF-SITE BASINS DRAINING ONTO LOT 17. OFF-SITE BASIN A IS DIRECTLY EAST OF LOT 17. RUNOFF FROM OFF-SITE BASIN A WILL BE COLLECTED IN A ROCK-LINED SWALE ALONG THE LOT 17 EAST PROPERTY LINE AND WILL BE DIVERTED TO A ROCK-LINED SWALE ALONG THE SOUTH PROPERTY LINE OF LOT 17 TO THE LOT 17 DRIVEWAY. THE PEAK FLOW OF 0.47 CFS WILL DISCHARGE TO EAGLE ROCK AVENUE. OFF-SITE BASIN B IS LOCATED NORTH OF LOT 17. RUNOFF FROM OFF-SITE BASIN B WILL DRAIN TO LOT 17 VIA A 2-FOOT WIDE BY 8-INCH HIGH OPENING IN THE WALL. THE PEAK FLOW OF 0.71 CFS WILL BE CONVEYED WITH THE ON-SITE FLOWS IN THE GRAVEL DRIVE TO THE WEST AND SOUTH OF THE RESIDENTIAL BUILDING TO BE DISCHARGED TO EAGLE ROCK AVENUE THROUGH THE DRIVEWAY AND WILL EVENTUALLY DRAIN TO THE NORTH LA CUEVA CHANNEL.
RUNOFF FROM ON-SITE BASIN 1, WHICH INCLUDES ALL OF LOT 17, WILL BE DIRECTED TO EAGLE ROCK AVENUE THROUGH THE GRAVEL DRIVEWAY. THE ROOF OF THE BUILDING WILL DRAIN TO THE WEST TO THE GRAVEL DRIVE. THE BACK YARD AREA WILL HAVE SWALES TO DIRECT THE FLOWS SOUTH TO THE GRAVEL DRIVE. THE WALLS ALONG THE SIDE OF THE BACK YARDS WILL HAVE AN 8-INCH BY 8-INCH OPENING AT THE SWALE LOCATION. A TOTAL OF 2.63 CFS FROM LOT 17 WILL DRAIN TO EAGLE ROCK AVENUE AND WILL DRAIN TO THE NORTH LA CUEVA CHANNEL. A TOTAL OF 3.81 CFS FROM OFF-SITE BASINS A AND B AND ON-SITE BASIN 1 WILL DRAIN THROUGH THE DRIVEWAY TO EAGLE ROCK AVENUE. THE FIRST FLUSH FROM ON-SITE BASIN 1 WILL BE RETAINED IN THE LANDSCAPED AREA WEST OF THE GRAVEL DRIVEWAY. THE FIRST FLUSH VOLUME FOR A 0.44-INCH RAIN IS 304 CUBIC-FEET.



100-YEAR HYDROLOGIC CALCULATIONS											
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				Q (cfs)
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V (24-hr) (acre-ft)	V (24-hr) (cu-ft)	
EXISTING CONDITIONS											
OFF-SITE A	0.2535	100.00	0.00	0.00	0.00	0.66	0.01	60	0.01	60	0.47
OFF-SITE B	0.3790	100.00	0.00	0.00	0.00	0.66	0.02	908	0.02	908	0.71
ON-SITE 1	0.7277	100.00	0.00	0.00	0.00	0.66	0.04	3243	0.04	1743	1.36
TOTAL RUNOFF	1.36						0.07	3259	0.07	3259	2.54
PROPOSED CONDITIONS											
ON-SITE 1	0.7277	0.00	42.60	23.60	33.80	1.49	0.09	3,947	0.10	4,393	2.63
TOTAL RUNOFF	0.73						0.09	3,947	0.10	4,393	2.63
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _{in} (cfs)					
WEIGHTED E (in) = (E _A)(%A) + (E _B)(%B) + (E _C)(%C) + (E _D)(%D)						ZONE = 3					
V _{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12						P _{6hr} (in.) = 2.60					
V _{24hr} (acre-ft) = V _{6hr} + (A ₀)(P _{24hr} - P _{6hr})/12						P _{24hr} (in.) = 3.10					
Q (cfs) = (Q _{in})(A ₀) + (Q _{ex})(A ₀) + (Q _{ex})(A ₀) + (Q _{ex})(A ₀)						P _{100yr} (in.) = 4.90					

- LEGEND
- FP=09.07 FINISHED PAD SITE ELEVATION
 - 60.23 PROPOSED SPOT ELEVATION
 - TW=12.51 TOP OF WALL
 - BW=11.84 BOTTOM OF WALL
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED RETAINING WALL
 - PROPOSED GARDEN WALL
 - PROPOSED MOUNTABLE CURB AND GUTTER
 - PROPOSED BASIN NUMBER
 - PROPOSED BASIN BOUNDARY
 - PROPOSED CONCRETE
 - PROPOSED GRAVEL
 - PROPOSED RIP RAP
 - PROPOSED 2'X8" HIGH OPENING IN WALL



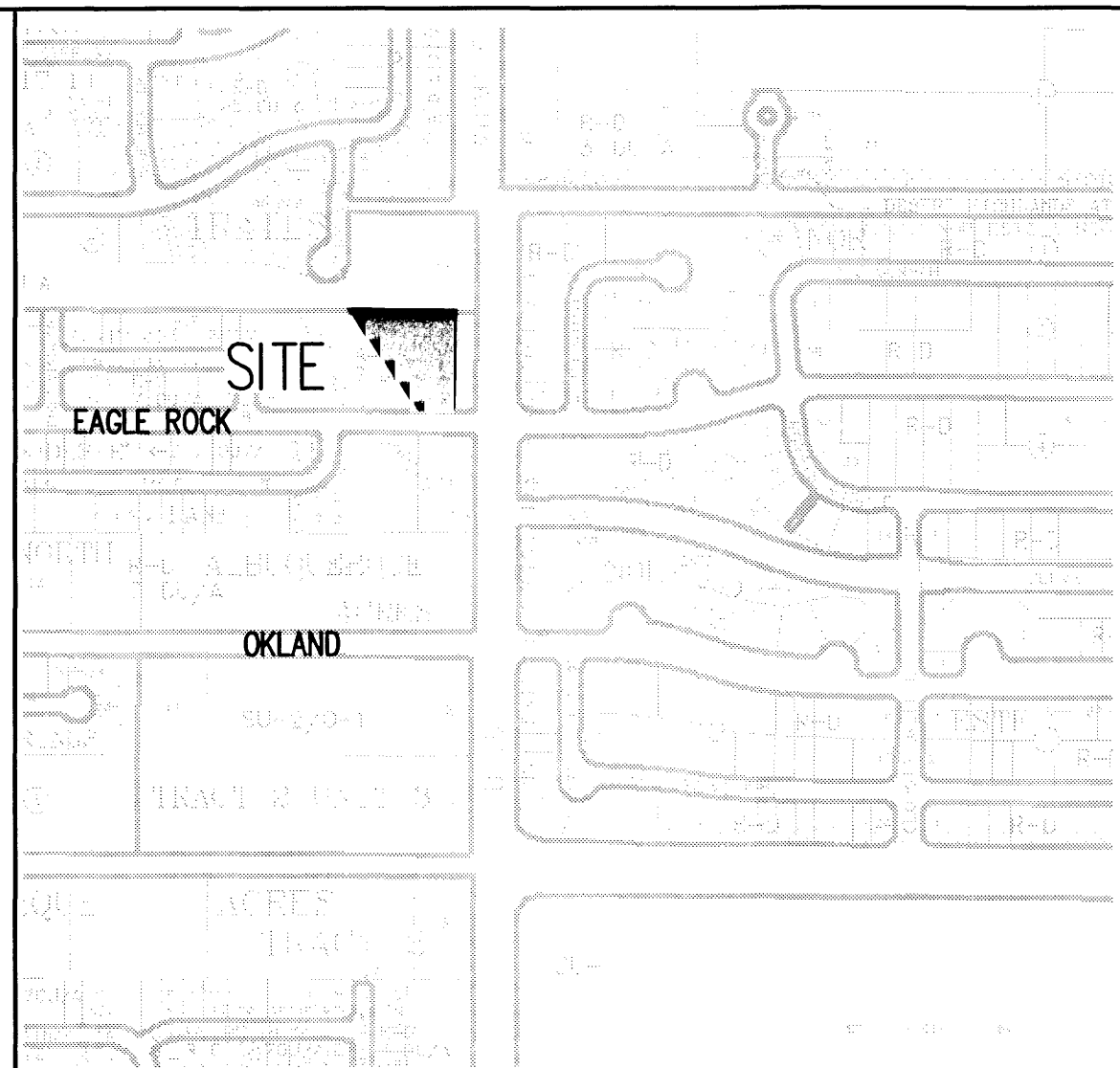
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT TRANSPORTATION DEVELOPMENT	
LOT 17, BLOCK 1, NAA TRACTS 2, UNIT 3 GRADING AND DRAINAGE PLAN FOR LOT 17	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
City Project No. XXXXXX	Zone Map No. C-19-Z
Sheet 1	Of 2

100-YEAR HYDROLOGIC CALCULATIONS

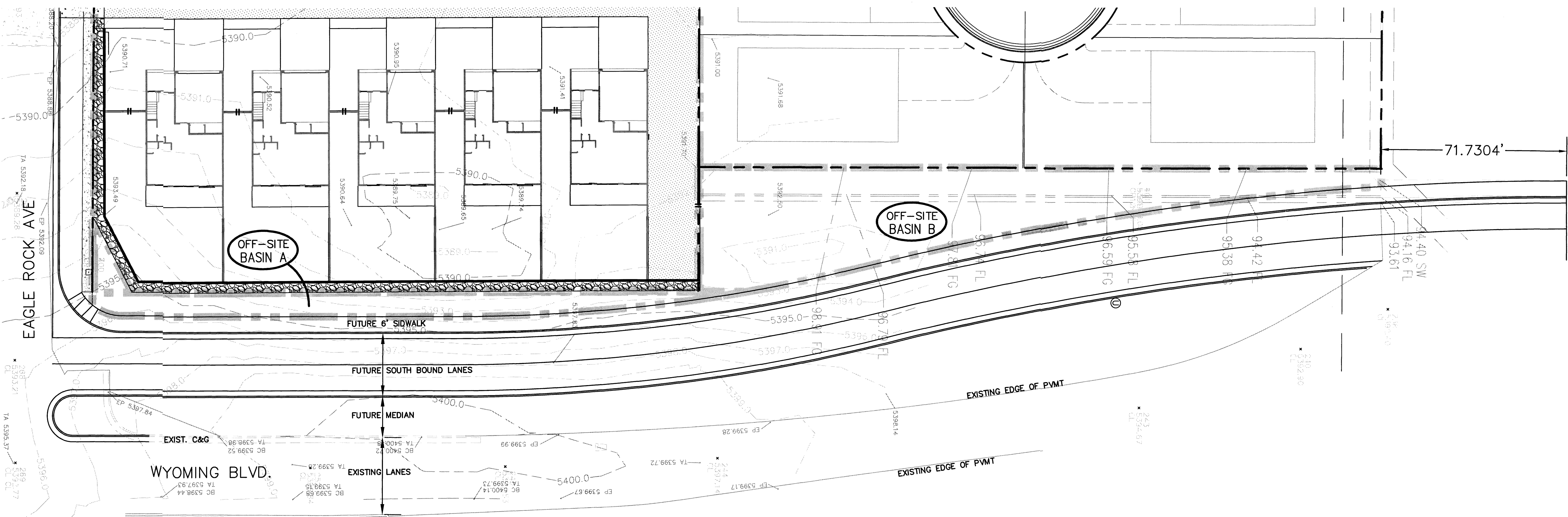
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(24-hr) (acre-ft)	V(24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
OFF-SITE A	0.2535	100.00	0.00	0.00	0.00	0.66	0.01	607	0.01	607	0.47
OFF-SITE B	0.3790	100.00	0.00	0.00	0.00	0.66	0.02	908	0.02	908	0.71
ON-SITE 1	0.7277	100.00	0.00	0.00	0.00	0.66	0.04	1,743	0.04	1,743	1.36
TOTAL RUNOFF	1.36						0.07	3,259	0.07	3,259	2.54
PROPOSED CONDITIONS											
ON-SITE 1	0.7277	0.00	42.60	23.60	33.80	1.49	0.09	3,947	0.10	4,393	2.63
TOTAL RUNOFF	0.73						0.09	3,947	0.10	4,393	2.63
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _p (cfs)					

WEIGHTED E (in) = (E_a)(%A) + (E_b)(%B) + (E_c)(%C) + (E_d)(%D)
V_{6-hr} (acre-ft) = (WEIGHTED E)(AREA)/12
V_{24-hr} (acre-ft) = V_{6-hr} + (A_b)/P_{24-hr} - P_{6-hr}/12
Q (cfs) = (Q_a)(A_a) + (Q_b)(A_b) + (Q_c)(A_c) + (Q_d)(A_d)

ZONE = 3
P_{6-hr} (in.) = 2.60
P_{24-hr} (in.) = 3.10
P_{24-hr} (in.) = 4.90



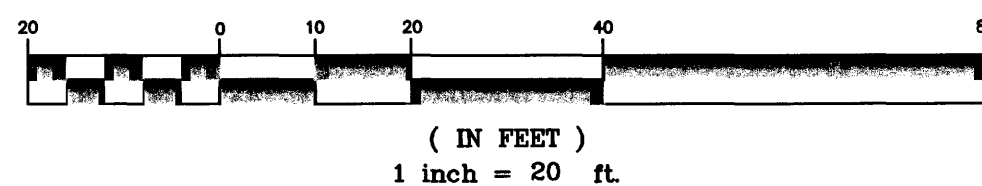
ZONE ATLAS: C-19-Z



LEGEND

FP=09.07	FINISHED PAD SITE ELEVATION
*0.23	PROPOSED SPOT ELEVATION
TW=12.51 BW=11.84	TOP OF WALL BOTTOM OF WALL
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
■■■■■■■■	PROPOSED RETAINING WALL
=====	PROPOSED MOUNTABLE CURB AND GUTTER
○ ON-SITE BASIN	PROPOSED BASIN NUMBER
■■■■■■■■	PROPOSED BASIN BOUNDARY
■■■■■■■■	PROPOSED CONCRETE
■■■■■■■■	PROPOSED GRAVEL
■■■■■■■■	PROPOSED RIP RAP

GRAPHIC SCALE



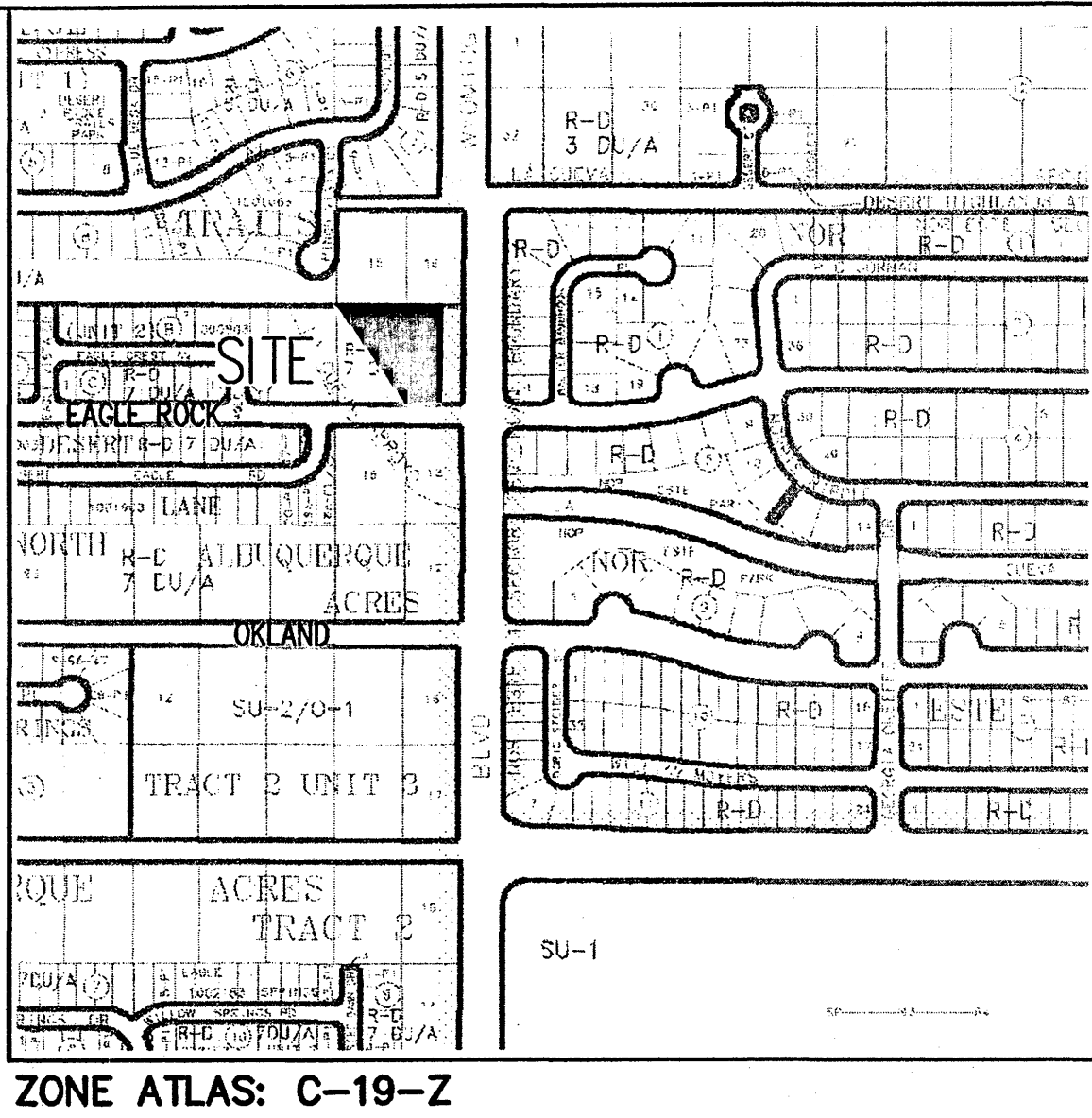
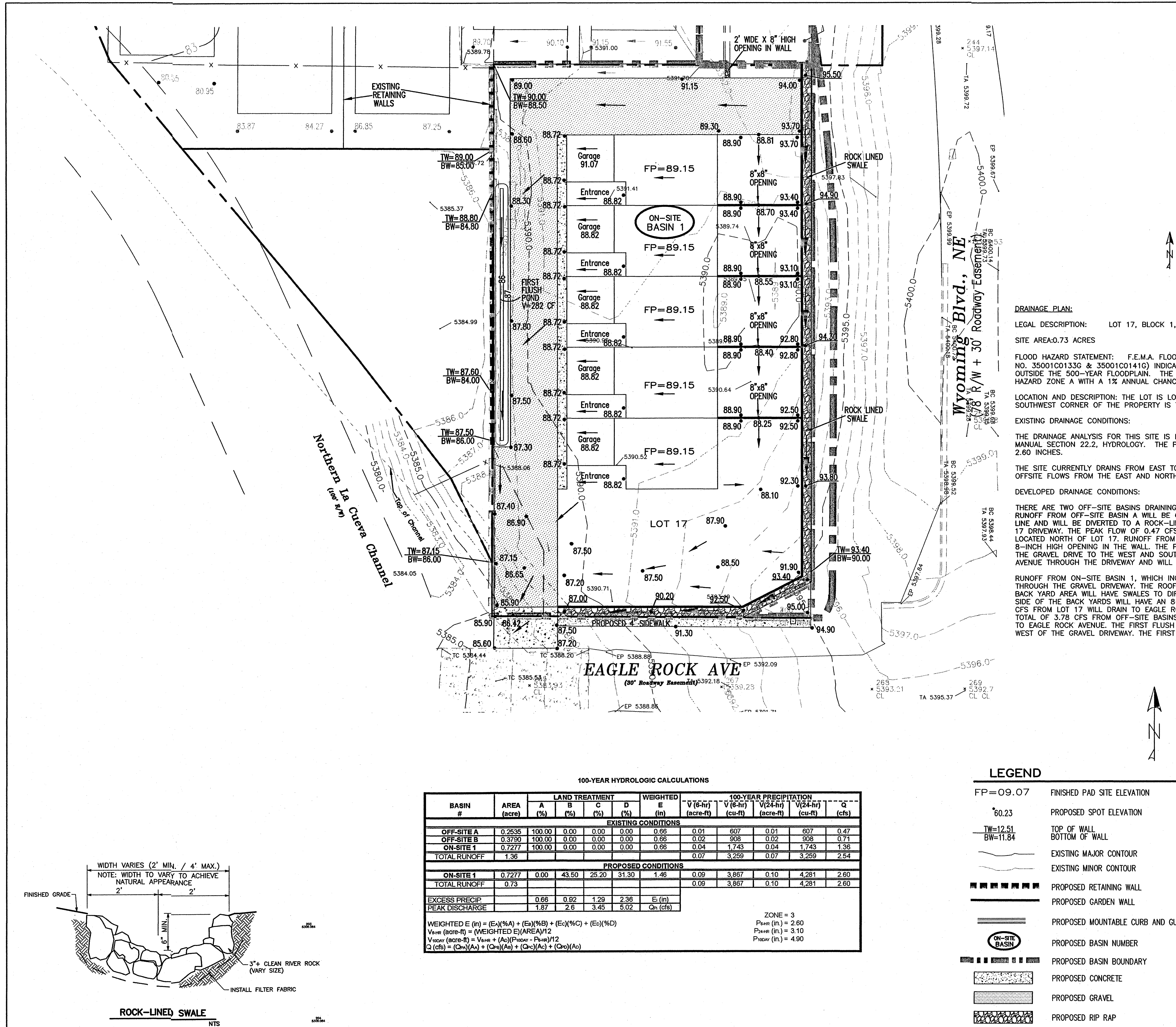
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS		DESIGN		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT TRANSPORTATION DEVELOPMENT		LOT 17, BLOCK 1, NAA TRACTS 2, UNIT 3 WYOMING IMPROVEMENT LAYOUT		DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.		MO./DAY/YR.	
CONTRACTOR	WORK	STAKED BY	DATE	NO.	BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.
MICRO-FILM INFORMATION		RECORDED BY		DATE		NO.		DATE		NO.		DATE		NO.		DATE		NO.		DATE		NO.	

Thompson Engineering Consultants, Inc.
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9426
tecmm@yahoo.com

City Project No. XXXXXX

Zone Map No. C-19-Z

Sheet 2 Of 2



LEGEND

LEGAL DESCRIPTION: LOT 17, BLOCK 1, NAA TRACT 2, UNIT 3
SITE AREA: 0.73 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED AUGUST 16, 2012 (PANEL NO. 35001C0133G & 35001C0141G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN. THE NORTH LA CUEVA CHANNEL AT THE SOUTHWEST CORNER HAS A FLOOD HAZARD ZONE A WITH A 1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL.

LOCATION AND DESCRIPTION: THE LOT IS LOCATED ON EAGLE ROCK AVENUE WEST OF WYOMING BOULEVARD. AT THE SOUTHWEST CORNER OF THE PROPERTY IS THE NORTH LA CUEVA CHANNEL.

EXISTING DRAINAGE CONDITIONS:

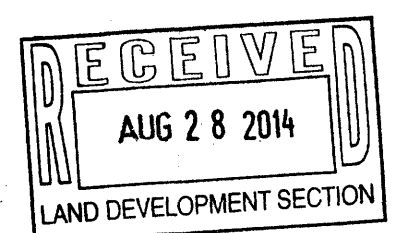
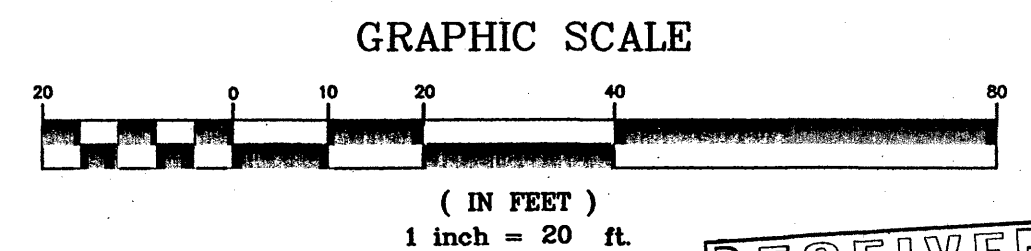
THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL SECTION 22.2, HYDROLOGY. THE PROPERTY IS LOCATED IN ZONE 3. THE 100-YEAR, 6-HOUR STORM IS 2.60 INCHES.

THE SITE CURRENTLY DRAINS FROM EAST TO WEST TO THE NORTH LA CUEVA CHANNEL. CURRENTLY THERE ARE OFFSITE FLOWS FROM THE EAST AND NORTH.

DEVELOPED DRAINAGE CONDITIONS:

THERE ARE TWO OFF-SITE BASINS DRAINING ONTO LOT 17. OFF-SITE BASIN A IS DIRECTLY EAST OF LOT 17. RUNOFF FROM OFF-SITE BASIN A WILL BE COLLECTED IN A ROCK-LINED SWALE ALONG THE LOT 17 EAST PROPERTY LINE AND WILL BE DIVERTED TO A ROCK-LINED SWALE ALONG THE SOUTH PROPERTY LINE OF LOT 17 TO THE LOT 17 DRIVEWAY. THE PEAK FLOW OF 0.47 CFS WILL DISCHARGE TO EAGLE ROCK AVENUE. OFF-SITE BASIN B IS LOCATED NORTH OF LOT 17. RUNOFF FROM OFF-SITE BASIN B WILL DRAIN TO LOT 17 VIA A 2-FOOT WIDE BY 8-INCH HIGH OPENING IN THE WALL. THE PEAK FLOW OF 0.71 CFS WILL BE CONVEYED WITH THE ON-SITE FLOWS IN THE GRAVEL DRIVE TO THE WEST AND SOUTH OF THE RESIDENTIAL BUILDING TO BE DISCHARGED TO EAGLE ROCK AVENUE THROUGH THE DRIVEWAY AND WILL EVENTUALLY DRAIN TO THE NORTH LA CUEVA CHANNEL.

RUNOFF FROM ON-SITE BASIN 1, WHICH INCLUDES ALL OF LOT 17, WILL BE DIRECTED TO EAGLE ROCK AVENUE THROUGH THE GRAVEL DRIVEWAY. THE ROOF OF THE BUILDING WILL DRAIN TO THE WEST TO THE GRAVEL DRIVE. THE BACK YARD AREA WILL HAVE SWALES TO DIRECT THE FLOWS SOUTH TO THE GRAVEL DRIVE. THE WALLS ALONG THE SIDE OF THE BACK YARDS WILL HAVE AN 8-INCH BY 8-INCH OPENING AT THE SWALE LOCATION. A TOTAL OF 2.60 CFS FROM LOT 17 WILL DRAIN TO EAGLE ROCK AVENUE AND WILL DRAIN TO THE NORTH LA CUEVA CHANNEL. A TOTAL OF 3.78 CFS FROM OFF-SITE BASINS A AND B AND ON-SITE BASIN 1 WILL DRAIN THROUGH THE DRIVEWAY TO EAGLE ROCK AVENUE. THE FIRST FLUSH FROM ON-SITE BASIN 1 WILL BE RETAINED IN THE LANDSCAPED AREA WEST OF THE GRAVEL DRIVEWAY. THE FIRST FLUSH VOLUME FOR A 0.44-INCH RAIN IS 282 CUBIC-Feet.



LEGEND

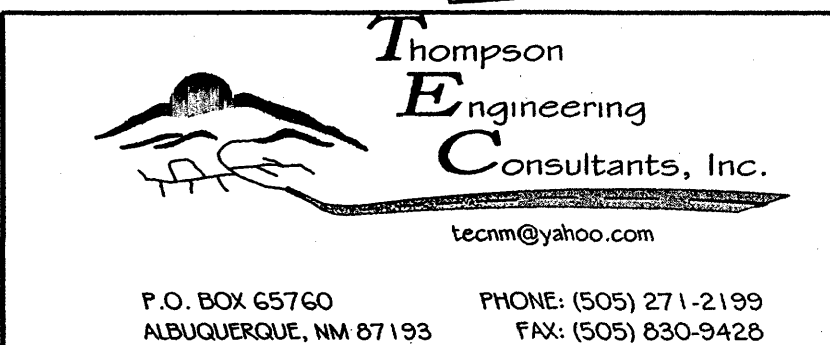
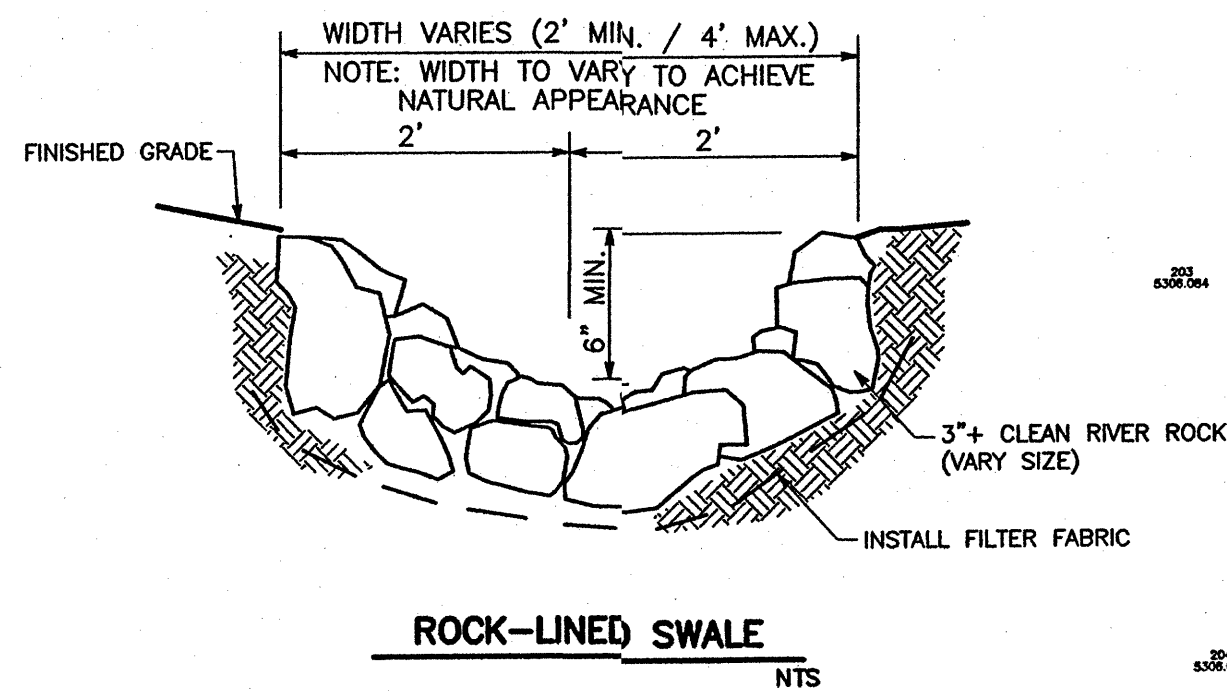
- FP=09.07 FINISHED PAD SITE ELEVATION
- 60.23 PROPOSED SPOT ELEVATION
- TW=12.51 TOP OF WALL
- BW=11.84 BOTTOM OF WALL
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL
- PROPOSED MOUNTABLE CURB AND GUTTER
- PROPOSED BASIN NUMBER
- PROPOSED BASIN BOUNDARY
- PROPOSED CONCRETE
- PROPOSED GRAVEL
- PROPOSED RIP RAP

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				Q (cfs)
		A (%)	B (%)	C (%)	D (%)		V (6-in) (acre-ft)	V (6-in) (cu-ft)	V (24-in) (acre-ft)	V (24-in) (cu-ft)	
EXISTING CONDITIONS											
OFF-SITE A	0.2535	100.00	0.00	0.00	0.00	0.66	0.01	607	0.01	607	0.47
OFF-SITE B	0.3790	100.00	0.00	0.00	0.00	0.66	0.02	908	0.02	908	0.71
ON-SITE 1	0.7277	100.00	0.00	0.00	0.00	0.66	0.04	1,743	0.04	1,743	1.36
TOTAL RUNOFF	1.36						0.07	3,259	0.07	3,259	2.54
PROPOSED CONDITIONS											
ON-SITE 1	0.7277	0.00	43.50	25.20	31.30	1.46	0.09	3,867	0.10	4,281	2.60
TOTAL RUNOFF	0.73						0.09	3,867	0.10	4,281	2.60
EXCESS PRECIP		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _h (cfs)					
							ZONE = 3				
WEIGHTED E (in) = (E _a)(%A) + (E _b)(%B) + (E _c)(%C) + (E _d)(%D)							P _{100yr} (in) = 2.60				
V _{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12							P _{6hr} (in) = 3.10				
V _{24hr} (acre-ft) = V _{6hr} + (A ₆)(P _{100yr} - P _{6hr})/12							P _{100yr} (in) = 4.90				
Q (cfs) = (Q _h)(A _a) + (Q _h)(A _b) + (Q _h)(A _c) + (Q _h)(A _d)											

WEIGHTED E (in) = (E_a(%A) + (E_b(%B) + (E_c(%C) + (E_d(%D)
V_{6in} (acre-ft) = (WEIGHTED E)(AREA)/12
V_{24in} (acre-ft) = V_{6in} + (A_o)(P_{100yr} - P_{6in})/12
Q (cfs) = (Q_h)(A_o) + (Q_{6in})(A_o) + (Q_{24in})(A_o) + (Q_{24in})(A_o)

ZONE = 3
P_{6in} (in) = 2.60
P_{24in} (in) = 3.10
P_{100yr} (in) = 4.90



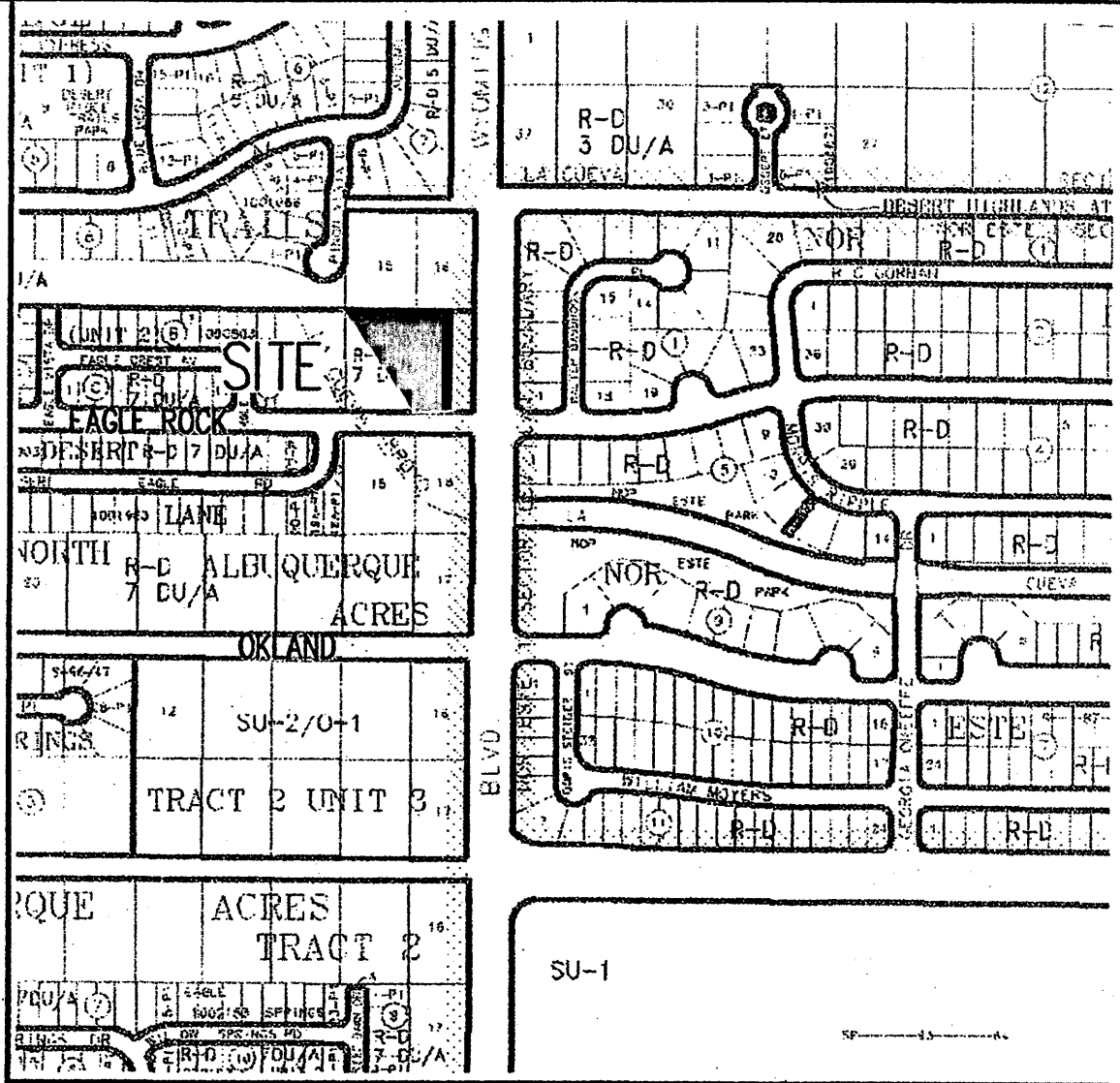
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT TRANSPORTATION DEVELOPMENT			
LOT 17, BLOCK 1, NAA TRACTS 2, UNIT 3 GRADING AND DRAINAGE PLAN FOR LOT 17			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
City Project No. XXXXXX	Zone Map No. C-19-Z	Sheet 1	Of 1

100-YEAR HYDROLOGIC CALCULATIONS

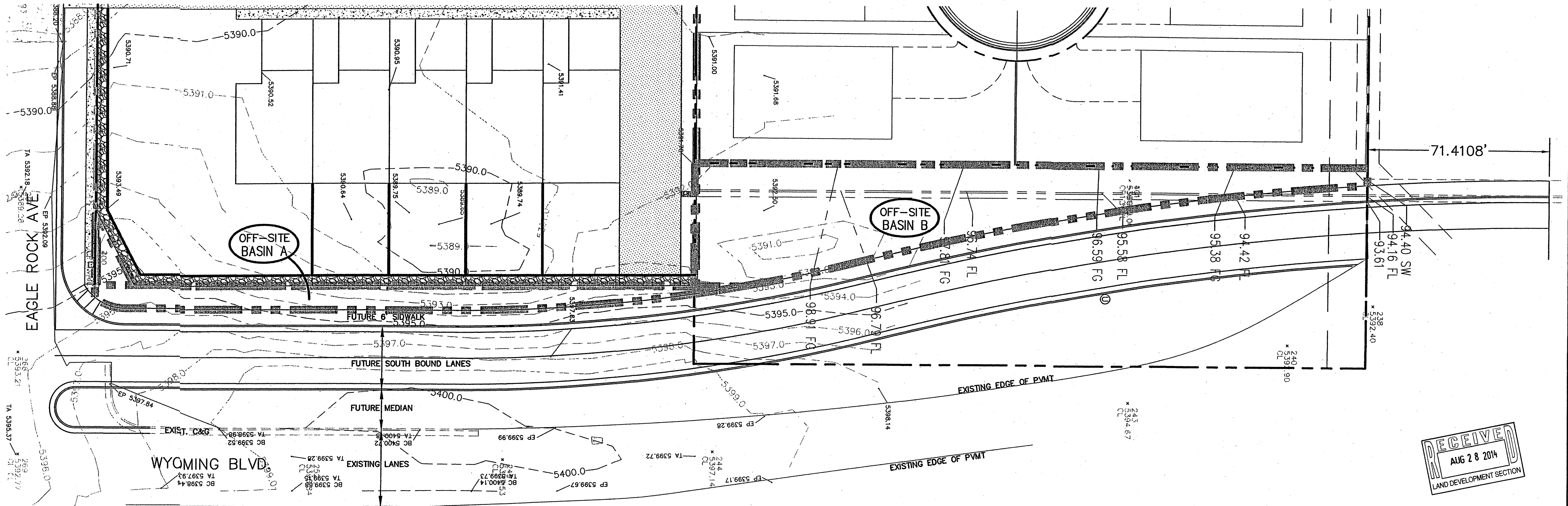
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V (24-hr) (acre-ft)	V (24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
OFF-SITE A	0.0507	100.00	0.00	0.00	0.00	0.66	0.00	121	0.00	121	0.09
OFF-SITE B	0.1582	100.00	0.00	0.00	0.00	0.66	0.01	374	0.01	374	0.29
TOTAL RUNOFF	0.21						0.01	496	0.01	496	0.39
EXCESS PRECIP		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _h (cfs)					

WEIGHTED E (in) = (E_A)(%A) + (E_B)(%B) + (E_C)(%C) + (E_D)(%D)
V_{6hr} (acre-ft) = (WEIGHTED E)(AREA)/12
V_{24hr} (acre-ft) = V_{6hr} + (A₀)(P_{24hr} - P_{6hr})/12
Q (cfs) = (Q_{6hr})(A_A) + (Q_{9hr})(A_B) + (Q_{12hr})(A_C) + (Q_{24hr})(A_D)

ZONE = 3
P_{6hr} (in) = 2.60
P_{24hr} (in) = 3.10
P_{24hr} (in) = 4.90

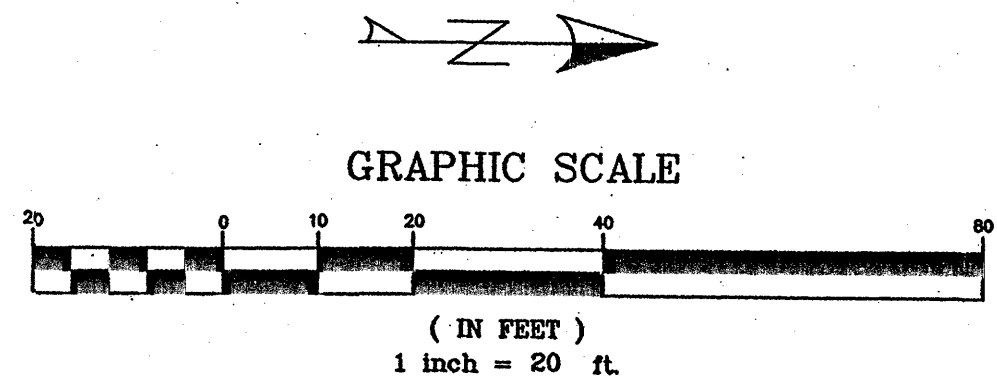


ZONE ATLAS: C-19-Z



LEGEND

- FP=09.07 FINISHED PAD SITE ELEVATION
- *60.23 PROPOSED SPOT ELEVATION
- TW=12.51 TOP OF WALL
- BW=11.84 BOTTOM OF WALL
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED RETAINING WALL
- PROPOSED MOUNTABLE CURB AND GUTTER
- ON-SITE BASIN PROPOSED BASIN NUMBER
- PROPOSED BASIN BOUNDARY
- PROPOSED CONCRETE
- PROPOSED GRAVEL
- PROPOSED RIP RAP



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT
LOT 17, BLOCK 1, NAA TRACTS 2, UNIT 3
WYOMING IMPROVEMENT LAYOUT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

City Project No. XXXXXX Zone Map No. C-19-Z Sheet 1 Of 1

AS BUILT INFORMATION	
CONTRACTOR	NO.
WORKED BY	DATE
INSPECTED BY	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS BY	DATE
RECORDED BY	DATE
NO.	DATE

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	NO.
BY	DATE

ENGINEER'S SEAL	
BY	DATE
REMARKS	DATE
DESIGN	DATE
DESIGNED BY DBT	DATE 8-2014
DRAWN BY DBT	DATE 8-2014
CHECKED BY DBT	DATE 8-2014

