

CITY OF ALBUQUERQUE

Hydrology Section Planning Department
David S. Campbell, Director



Timothy M. Keller, Mayor

December 18, 2018

Diego M. Ruiz
Diego Hand Crafted Homes
8100 Wyoming Blvd. NE, Suite M4-511
Albuquerque, NM, 87113

RE: 6705 Emory Oak Pl. NE
Grading Plan Engineer's Stamp Date: 12/06/2018
Hydrology File: E24D006

Dear Mr. Ruiz,

Based upon the information provided in your submittal received 12/11/2018, the Grading and Drainage Plan is approved for Preliminary and Final Plat and for Building Permit. Please be sure to include a copy of the approved G&D Plan in the plan sets for Building Permit.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 924-3986 or e-mail jhughes@cabq.gov.

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

\$160



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: SERSUN G & D Building Permit #: _____ Hydrology File #: E240006
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: LOT 59, MOUNTAIN HIGHLANDS @ HIGH DESERT, UNIT 2, BERNALILLO NM
City Address: 6705 EMORY OAK PLACE NE

Applicant: DIEGO HANDCRAFTED HOMES Contact: DIEGO M. RUIZ
Address: 8100 WYOMING BLVD NE, SUITE MA-511
Phone#: 505 999-8686 Fax#: _____ E-mail: DIEGOHANDCRAFTEDHOMES@GMAIL.COM
Owner: KENNETH & SUZANNE SERSUN Contact: KEN
Address: 6319 CALLA LILY CIRCLE, NE 87111
Phone#: 808-783-9421 Fax#: _____ E-mail: KSERSUN@YAHOO.COM

TYPE OF SUBMITTAL: _____ PLAT (_____ # OF LOTS) _____ RESIDENCE ☒ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☒ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE MASTER PLAN
- ☐ DRAINAGE REPORT
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☒ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☒ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____



DATE SUBMITTED: 12/11/18 By: [Signature]

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

City of Albuquerque Planning Department
One Stop Shop – Development and Building Services

12/11/2018 Issued By: E08375 364339

Permit Number: 2018 060 657

Category Code 970

Application Number: 18REV-60657, Review: Drain Plan-Lomr-Traffic Impact

Address:

Location Description: SERSUN G & D

Project Number: null

Applicant

DIEGO HANDCRAFTED HOMES
DIEGO RUIZ
8100 WYOMING BLVD NE STE M-4 #511
ALBUQUERQUE NM 87113
505-573-8888

Agent / Contact

DIEGO HANDCRAFTED HOMES
DIEGO RUIZ
8100 WYOMING BLVD NE STE M-4 #511
ALBUQUERQUE NM 87113
505-573-8888

Application Fees

REV Actions	\$610.00
TOTAL:	\$610.00

City of Albuquerque Treasury
Date: 12/11/2018 Office: AMEX
Stat ID: Cashier: TRSMAB
Batch: 9872 Trans #: 25
Permit: 2018060657
Receipt Num 00537917
Payment Total: \$610.00
0909 REV Actions
VISA Tendered : \$610.00

LEGEND

TBM

TEMPORARY BENCHMARK

G

EXISTING GROUND

FF

FINISH FLOOR

FG

FINISH GRADE after landscaping

FL

FLOWLINE

TA

TOP OF ASPHALT

TC

TOP OF CONCRETE

BC

TOP OF CURB

TS

TOP OF SIDEWALK

TRW

TOP RETAINING WALL

TW

TOP OF YARD WALL

FH

FIRE HYDRANT

WM

WATER METER

WV

WATER VALVE

MH

MANHOLE

CB

CATCH BASIN GRATE

GM

GAS MATER

GV

GAS VALVE

LP

LIGHT POLE

PP

POWER POLE

GW

GUY WIRE

PED

ELEC., TEL. OR CBL PED.

OHU

OVERHEAD UTILITIES

RD/C

ROOF DRAINAGE POINT

DIRECTION OF FLOW

YARD WALL

RETAINING WALL

FEMA FLOODPLAIN BOUNDARY

DRAINAGE BASIN BOUNDARY

EROSION SETBACK LINE

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

RECORD SPOT ELEVATION

STRUCTURES

UNDERGROUND UTILITIES

S,T,U

S,T,U = SIZE (INCHES), TYPE & USE

TYPE: CI— Cast Iron, DI—Ductile Iron, CMP— Cor. Metal, HDPE—High Density Poly ethylene, PVC— Polyvinyl Chloride, RCP— Reinforced Conc.

USES: SD—STORM DRAIN, SAS—SANITARY SEWER, W—WATER, IRR— IRRIGATION

PROPOSED S,T,U

MINIMUM PIPE SLOPES

PIPE SIZE

SLOPE

4"

2%

6"

1%

8"

1%

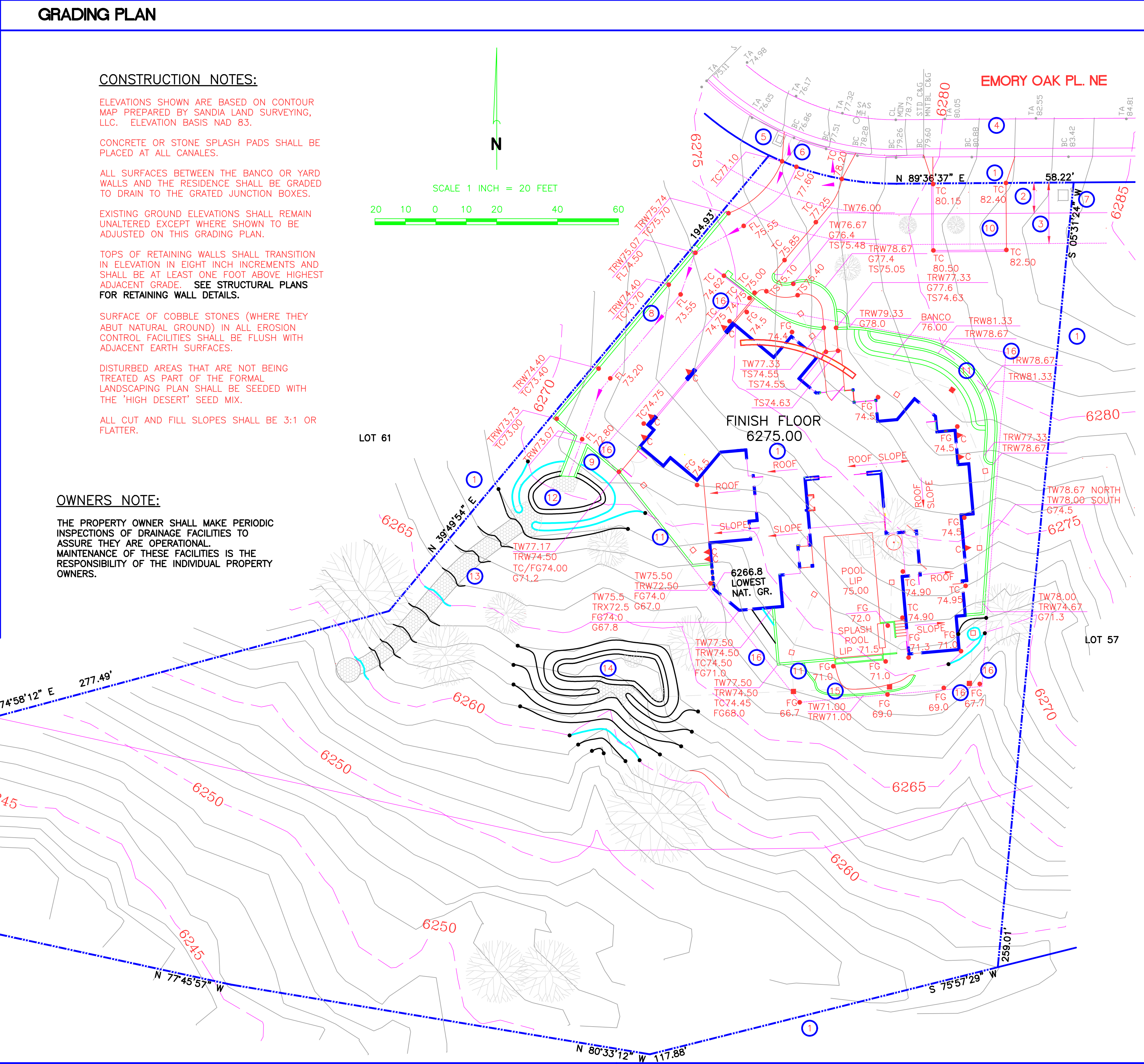
SEE SHEET C-2 FOR PIPE SIZE/FL ELEV. AND JUNCTION BOX GRATE/LID ELEVATIONS

STORM DRAIN NOTES: ALL JUNCTION BOXES TO HAVE REMOVABLE TOPS (LIDS OR GRATES) FOR CLEANING PURPOSES. DO NOT USE CORRUGATED PIPE.

STORM DRAIN JUNCTION BOX w/ SOLID LID & PVC SMOOTH WALL PIPE SIZE

STORM DRAIN JUNCTION BOX w/ GRATE LID & PVC SMOOTH WALL PIPE SIZE

SEE SHEET C-2 FOR PIPE SIZE/FL ELEV. AND JUNCTION BOX GRATE/LID ELEVATIONS



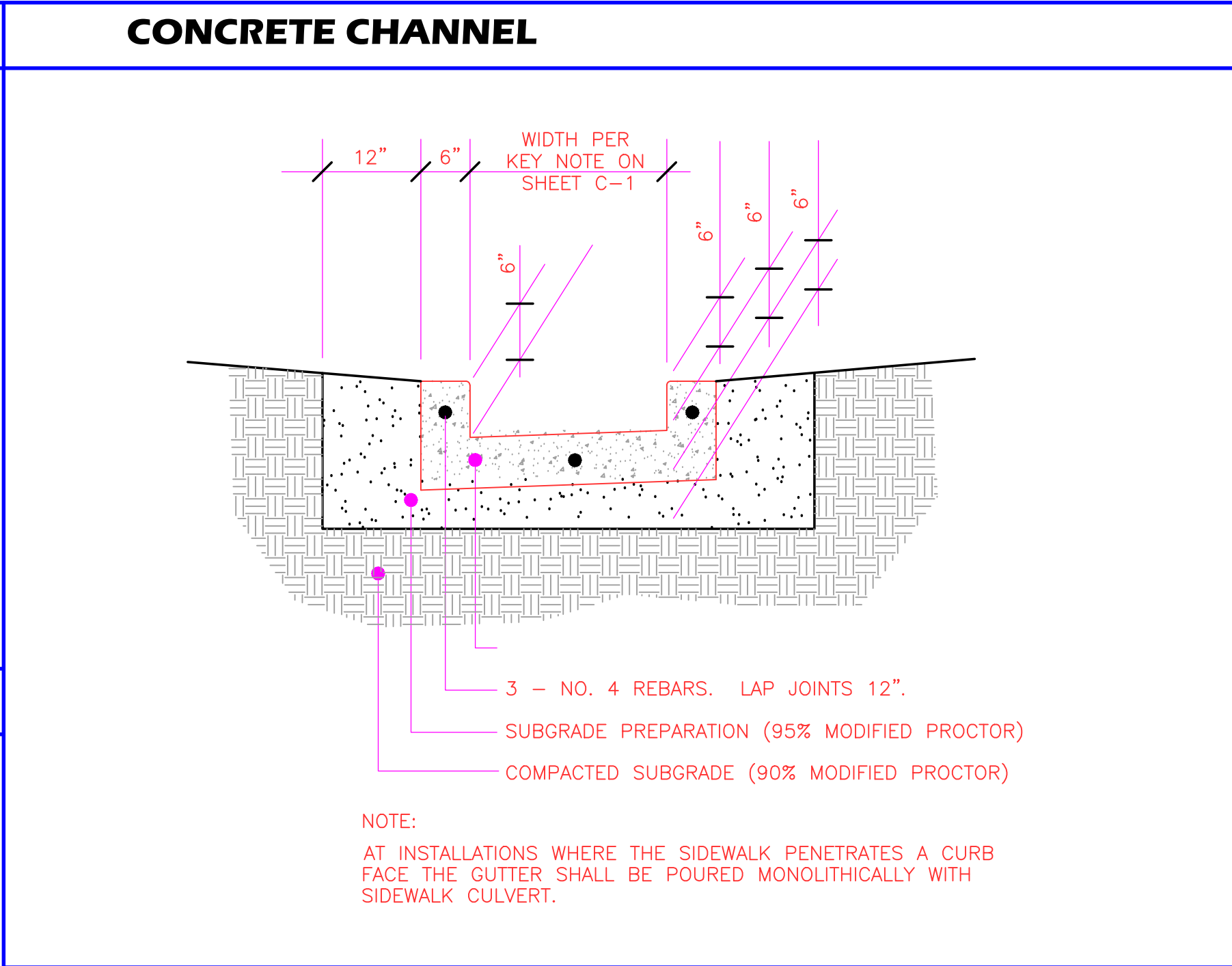
DRY STREAM

The diagram illustrates a cross-section of a dry stream. The stream bed is composed of gravel, with a filter fabric layer underneath. The gravel is labeled 'GRAVEL (UNCRUSHED) PER CHART'. The filter fabric is labeled 'FILTER FABRIC'. The finish grade of the adjacent earth is indicated by a line labeled 'FINISH GRADE OF ADJACENT EARTH'. The stream bed is shown with a minimum width of 1' on both sides, labeled 'VARIES 1' MIN.'. The bottom width is labeled 'BOTTOM WIDTH SHOWN ON PLAN MINIMUM'. The stream bed is shown with a minimum depth of 1' and a maximum depth of 2'.

PERCENT BY VOL.	PERCENT BY VOL.
> 6"	0-5
3"-6"	40-60
1"-3"	10-30
3/8"-1"	10-15
< 3/8"	0-5

CONSTRUCTION NOTES:
BOTTOM AND BANK WIDTHS SHALL VARY TO SIMULATE A NATURAL STREAM. CONSTRUCTED BOTTOM WIDTH SHALL BE AT LEAST AS WIDE AS NOTED IN THE BUILD NOTE. STONES GREATER THAN 4" SHALL BE LIMITED TO BANK AREAS.

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1'-0" MIN.

6"

6" MIN.

6"

15"

*** ROUND TOP EDGES WITH 1/2" EDGING TOOL.**

2-#4 REINFORCING STEEL BARS

PORTLAND CEMENT CURB

SUBGRADE PREPARATION

(95% MODIFIED PROCTOR)

COMPACTED SUBGRADE

(90% MODIFIED PROCTOR)

PAVING SURFACE

NOTE:

PROVIDE CONTRACTION JOINTS AT 5 FEET ON CENTER AND EXPANSION JOINTS AT 50 FEET ON CENTER UNLESS OTHERWISE STATED ON SITE PLANS OR IF CURB ABUTS SIDEWALK; WHERE CURB JOINTS SHALL MATCH SIDEWALK JOINTS.

DRAINAGE DATA								
	A RETURN S I N	PERIOD	TYPE	AREA	PRECIPITATION	RUNOFF	VOLUME	RATE
			(table 4)		(table 8)	(table 9)		
-	-	year	-	sq. ft.	in.	cfs/acre	cu. ft.	cfs
EXISTING	S I T E	10	A	48154	0.28	0.87	1124	0.96
			B	20220	0.46	1.45	775	0.67
			C	0	0.73	2.26	0	0.00
			D	0	1.69	3.57	0	0.00
			TOTAL	68374			1899	1.63
		100	A	48154	0.80	2.20	3210	2.43
			B	20220	1.08	2.92	1820	1.36
			C	0	1.46	3.73	0	0.00
			D	0	2.64	5.25	0	0.00
			TOTAL	68374			5030	3.79
DEVELOPED	S I T E	10	A	46610	0.28	0.87	1088	0.93
			B	10142	0.46	1.45	389	0.34
			C	0	0.73	2.26	0	0.00
			D	11622	1.69	3.57	1637	0.95
			TOTAL	68374			3113	2.22
		100	A	46610	0.80	2.20	3107	2.35
			B	10142	1.08	2.92	913	0.68
			C	0	1.46	3.73	0	0.00
			D	11622	2.64	5.25	2557	1.40
			TOTAL	68374			6577	4.43
	P O N D	100	A	0	0.80	2.20	0	0.00
			B	4116	1.08	2.92	370	0.28
			C	0	1.46	3.73	0	0.00
			D	5315	2.64	5.25	1169	0.64
			TOTAL	9431			1540	0.92
	P O N D	100	A	0	0.80	2.20	0	0.00
			B	3506	1.08	2.92	316	0.24
			C	0	1.46	3.73	0	0.00
			D	4939	2.64	5.25	1087	0.60
			TOTAL				1402	0.83

6" THICK STONE PAD ON FILTER CLOTH (MIRAFI 140-N OR APPROVED EQUAL) AS SHOWN ON GRADING PLAN. SEE STONE GRADATION ON DRY STREAM DETAIL ABOVE. DO NOT PLACE STONE ON POND BANKS OR BOTTOM EXCEPT AS SHOWN ON THE GRADING PLAN.

CONCRETE CHANNEL INLET. SEE CHANNEL DETAILS THIS SHEET.

DRY STREAM INLET

CONSTRUCT 2' MINIMUM WIDTH COMPACTED EARTH BERM..

CONSTRUCT POND OUTLET AT 3:1 SLOPE TO NATURAL GROUND. EXTEND STONE AND FILTER FABRIC TO NATURAL GROUND.

PIPE INLET

NOTE:
POND CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER.

I, JEAN J. BORDENAVE, NEW MEXICO PROFESSIONAL ENGINEER AND LAND SURVEYOR NO. 5110, HEREBY CERTIFY THAT I HAVE PERSONALLY INSPECTED THE PROPERTY SHOWN HEREON AND THAT IT APPEARS THAT NO GRADEING, FILLING OR EXCAVATION HAS OCCURRED THEREON SINCE THE CONTOUR MAP SHOWN HEREON WAS PREPARED.

Jean J. Bordenave 11/09/18
JEAN J. BORDENAVE, NM PE & PLS NO. 5110

1. THE SITE IS PRESENTLY IN IT'S NATURAL STATE, RELATIVELY STEEP AND ROCKY. VEGETATION IS DENSE WITH NATIVE GRASSES, BUSHES AND JUNIPER TREES. THERE ARE SEVERAL MINOR ARROYOS TRAVELING ACROSS THE PROPERTY FROM THE STREET TO A LARGE ARROYO AT AND ALONG THE REAR OF THE PROPERTY. THE LARGE ARROYO IS LOCATED IN A PLATTED DRAINAGE EASEMENT AND IS AT LEAST 35 FEET FROM THE DESIGNATED BUILDING ENVELOPE.
2. THERE WILL BE A FLOW INCREASE DUE TO PROPOSED DEVELOPMENT. THE DEVELOPED FLOW RATES WILL BE 2.22 AND 4.43 CFS FOR THE 10 YEAR AND 100 YEAR STORMS RESPECTIVELY AND THE 6 HOUR RUNOFF VOLUMES FOR THE 10 YEAR AND 100 YEAR STORMS WILL BE 3113 AND 6577 CUBIC FEET RESPECTIVELY.
3. THE SITE IS LOCATED IN A 'ZONE X' PER FEMA FIRM MAP NO. 161-G, DATED SEPTEMBER 26, 2008.
4. TOPO SURVEY DATA SHOWN ON THIS DRAWING WAS PREPARED BY SANDIA LAND SURVEYING, LLC. DATED MAY, 2018.

POND 12	
<u>INLET TO CONCRETE CHANNEL</u>	
SHARP CRESTED WEIR	
$Q = C_L H^{3/2}$	
where Q from table, C=wier coefficient, L=curb opening length, H=water	
depth,	
$0.92 = (3)L(0.33)^{1.5}$	
therefore L = 1.6 use 2' wide curb opening	
<u>COBBLE OUTLET FROM POND</u>	
BROAD CRESTED WEIR	
$Q = C_L H^{3/2}$	
where Q from table, C=wier coefficient, L=curb opening length, H=water	
depth,	
$0.92 = (2.5)L(0.17)^{1.5}$	
therefore L = 5.3 use 6' wide pond outlet opening	
<u>POND 13</u>	
<u>COBBLE OUTLET FROM POND</u>	
BROAD CRESTED WEIR	
$Q = C_L H^{3/2}$	
where Q from table, C=wier coefficient, L=curb opening length, H=water	
depth,	
$0.83 = (2.5)L(0.17)^{1.5}$	
therefore L = 4.7 use 5' wide pond outlet opening	

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE NM811 FOR LOCATION OF EXISTING UTILITIES. DIAL 811 TO SUBMIT REQUEST OR 505-260-1165 WITH QUESTIONS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY THE CONSTRUCTION OF TEMPORARY SOIL BERMS OR SILT FENCES AT PROPERTY LINES AND WETTING SOIL TO PREVENT IT FROM BLOWING.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING TRACKED DOWN THE STREET.

	project title SERSUN RESIDENCE 6705 EMORY OAK PL. NE ALBUQUERQUE, NM		
	sheet title DETAILS, NOTES, + DRAINAGE CALCS		
	drawn by METO	design by JJB	project no. 1713
11/24/18			

