

CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

February 16, 2018

Hugh W. Floyd, P.E.
Respec
5971 Jefferson St. NE
Albuquerque, NM, 87109

RE: Legacy NAA Apartments 2
Conceptual Grading and Drainage Plan
Engineer's Stamp Date: 02/14/18
Hydrology File: C18D083

Dear Mr. Floyd:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your resubmittal received 02/14/2018, the Conceptual Grading and Drainage Plan is approved for action by the DRB on the Site Plan for Building Permit.

As a reminder, please provide a Private Facility Drainage Covenant per Chapter 17 of the DPM for the first flush ponds and the retention ponds prior to Building Permit approval. Also the site currently shows more than 1 acre of disturbance is being proposed. An Erosion and Sediment Control Plan is required and has to be submitted to the storm water quality engineer (Curtis Cherne, PE, ccherne@cabq.gov). Hydrology's approval for Grading or Building Permit will not be given until the submittal of the ESC Plan.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

Hydrology

Hydrology Calculations

The following calculations are based on Albuquerque's Development Process Manual, Section 22.2

Runoff Rate:

Treatment Type Areas

Subbasin	Area ₁ (ac)	Area ₂ (ac)	Area ₃ (ac)	Area ₄ (ac)	Total (ac)
Subbasin North	0	0.0678	0.0678	0.9944	1.1300
Subbasin South	0	0.0510	0.0510	1.5980	1.7000
Subbasin West	0	0.2795	0.0850	0.5355	0.8500
Subbasin East	0	0.3000	0.2100	0.1800	0.6000
Subbasin North East	0	0.0240	0.0240	0.0720	0.1200

Water Quality

Water Quality:

Subbasin	Required Water Quality volume for first flush of 0.34"	Drains to	Volume Provided (Cu. Ft.)
Subbasin North	1,227	North Pond	1,230
Subbasin South	1,972	South Pond	1,970
Subbasin West	661	West Pond	665
Subbasin East	222	Ponds 2-4 (Pond Area)	4,945 Retained
Subbasin North East	89	North East Pond	1,290 Retained
Total	4,171	WQ Ponding TOTAL	11,175

Volume

Calculations for 100yr-10day Volume for subbasins East and Northeast

From table A-8 in the COA DPM, the values of excess precipitations for each treatment type in zone 3 are:

$$\begin{aligned} E_1 &= 0.66'' \\ E_2 &= 0.92'' \\ E_3 &= 1.29'' \\ E_4 &= 2.36'' \end{aligned}$$

The weighted excess precipitation for each treatment type is calculated as following:

$$\text{Weighted } E = \frac{E_1 \cdot A_1 + E_2 \cdot A_2 + E_3 \cdot A_3 + E_4 \cdot A_4}{A_1 + A_2 + A_3 + A_4}$$

The weighted E was multiplied by each subbasin area to get 360 min (6 hr) volume. Then, the following equation (a-9) was used to get the 10-day volume:

$$V_{10\text{days}} = V_{6\text{hr}} + A_s \cdot (P_{10\text{days}} - P_{6\text{hr}}) / 12 \text{ in ft}$$

P values were taken from table A-2, for Zone 3:

$$\begin{aligned} P_{10\text{days}} &= 4.90 \\ P_{6\text{hr}} &= 2.60 \end{aligned}$$

The calculated V10-day for subbasins North East and East:

Subbasin	V360 (Cu. Ft.)	V10days (Cu. Ft.)
Subbasin East	3226.71	4729.5
Subbasin North East	809.34	1410.5

A-HYMO - Input

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S JOB NO. - 03231
S DATE: Jan. 19 2018
S INPUT FILE NAME: NAAHF.hym
S OUTPUT FILE NAME: NAAHF.out
S MODIFIED BY NIRT.F. ON JAN. 19 2018
S BASIN 117.2-NORTH WAS REPLACED WITH SUBBASINS NORTH & WEST
S BASIN 117.3-SOUTH WAS REPLACED WITH SUBBASIN SOUTH

*S***** SUBBASIN EAST
COMPUTE NM HYD ID=6 HYD NO=BasinEast DA=0.00094 SQ MI
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*S***** SUBBASIN SOUTH
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ID=5 CODE=20
PRINT HYD

A-HYMO - Output

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = NAAHF.TXT

COMMAND HYDROGRAPH IDENTIFICATION FROM TO NO. NO. AREA (SQ MI) PEAK DISCHARGE (CFS) RUNOFF VOLUME (AC-FT) RUNOFF (INCHES) TIME TO PEAK (HOURS) CFS PER ACRE PAGE = 1 NOTATION

S PROJECT NAME: LEGACY APARTMENTS PHASE 2
S JOB NO. - 03231
S DATE: Jan. 19 2018
S INPUT FILE NAME: NAAHF.hym
S OUTPUT FILE NAME: NAAHF.out
S

RAINFALL TYPE= 2
***** COMPUTE SAN PEDRO STORM DRAIN PROJECT (THOMPSON REPORT)

*S***** BASIN 117.20-NORTH
COMPUTE NM HYD SPSP.BASIN.
***** RESPEC CALCULATIONS

*S***** SUBBASIN NORTH
COMPUTE NM HYD BasinNorth
***** SUBBASIN SOUTH
COMPUTE NM HYD BasinSouth
***** SUBBASIN WEST
COMPUTE NM HYD BasinWest
***** SUBBASIN EAST
COMPUTE NM HYD BasinEast
***** SUBBASIN NORTH EAST
COMPUTE NM HYD BasinNortheast
***** EAST POND RATING CURVE
ROUTE RESERVOIR POND1
***** NORTH EAST POND RATING CURVE
ROUTE RESERVOIR POND2

ADD HYD NorthEast-Northeast 3810 11 .00283 5.14 .269 1.78040 1.500 2.836 Subbasin North + West = 8.68 cfs, Allowable = 8.44 cfs (DN)

Ponding

Subbasin East Pond

Elev.	Area (Sq. Ft.)	Vol (Cu. Ft.)	Cum. (Cu. Ft.)
5236.5	99.0	0	0
5237.0	285.0	96	96
5237.5	584.0	217	313
5238.0	1065.0	675	988

Elev.	Area (Sq. Ft.)	Vol (Cu. Ft.)	Cum. (Cu. Ft.)
5236.5	105.0	0	0
5237.0	381.0	122	122
5237.5	789.0	447	569
5238.0	1224.0	803	1371

Elev.	Area (Sq. Ft.)	Vol (Cu. Ft.)	Cum. (Cu. Ft.)
5236.5	262.0	0	0
5237.0	587.0	212	212
5238.0	1286.0	937	1149

Elev.	Area (Sq. Ft.)	Vol (Cu. Ft.)	Cum. (Cu. Ft.)
5236.0	231.0	0	0
5237.0	667.0	449	449
5238.0	1309.0	988	1437

Subbasin Northeast Pond

Area (Sq. Ft.)	Depth (ft)	Vol (Cu. Ft.)
1613	0.8	1290.4

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COMPUTE NM HYD ID=6 HYD NO=BasinEast DA=0.00094 SQ MI
PER A=0 PER B=50 PER C=20 PER D=30
TP=0.1333 HR MASS RAIN=-1
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COMPUTE NM HYD ID=7 HYD NO=BasinNorthEast DA=0.00019 SQ MI
PER A=0 PER B=20 PER C=20 PER D=60
TP=0.1333 HR MASS RAIN=-1
ID=7 CODE=20
PRINT HYD

*S***** SUBBASIN NORTH
COMPUTE NM HYD ID=3 HYD NO=BasinNorth DA=0.0017 SQ MI
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TP=0.1333 HR MASS RAIN=-1
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PRINT HYD

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COMPUTE NM HYD ID=4 HYD NO=BasinSouth DA=0.0026 SQ MI
PER A=0 PER B=3 PER C=3 PER D=84
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ID=4 CODE=20
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*S***** SUBBASIN WEST
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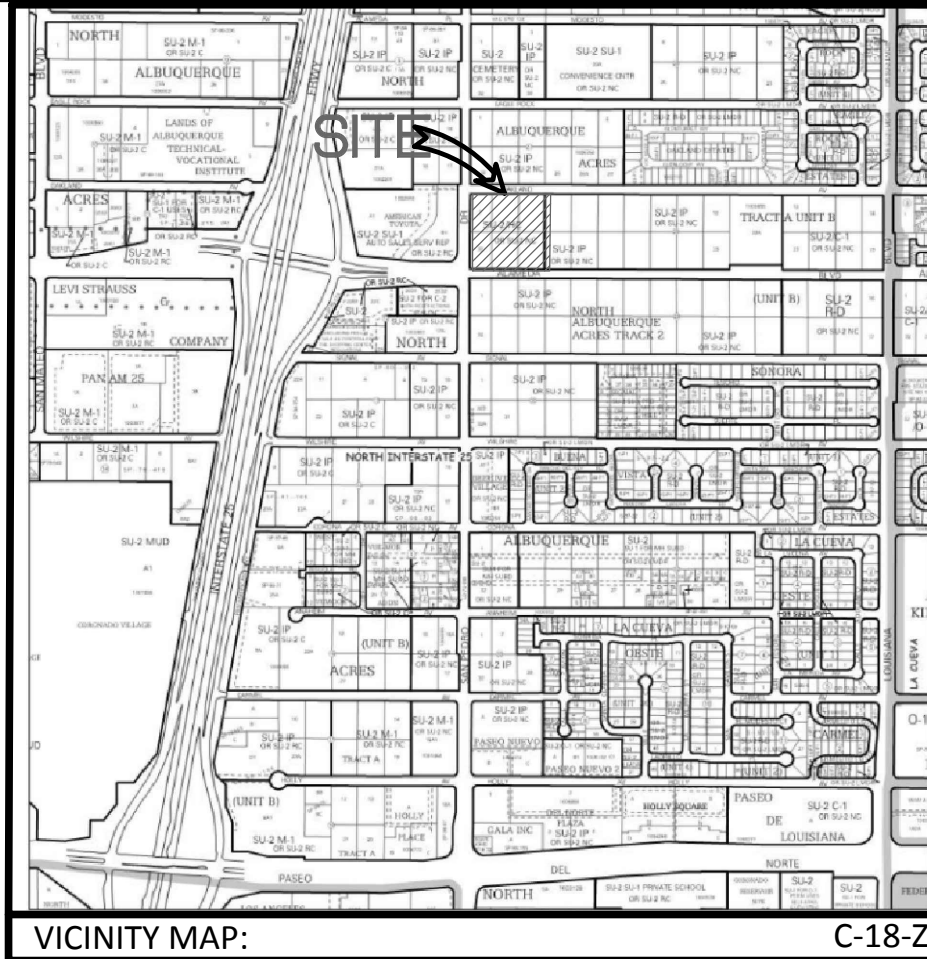
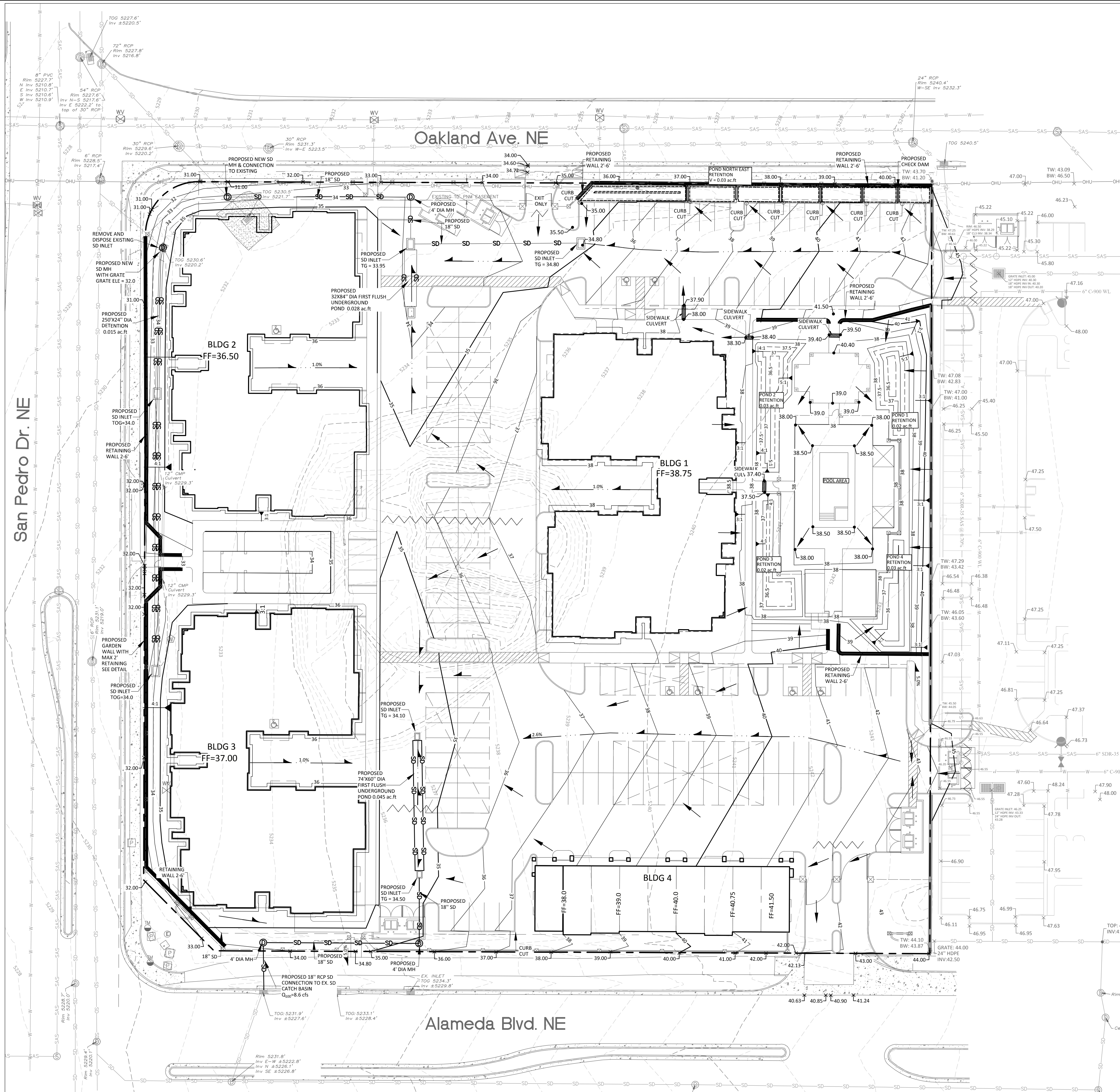
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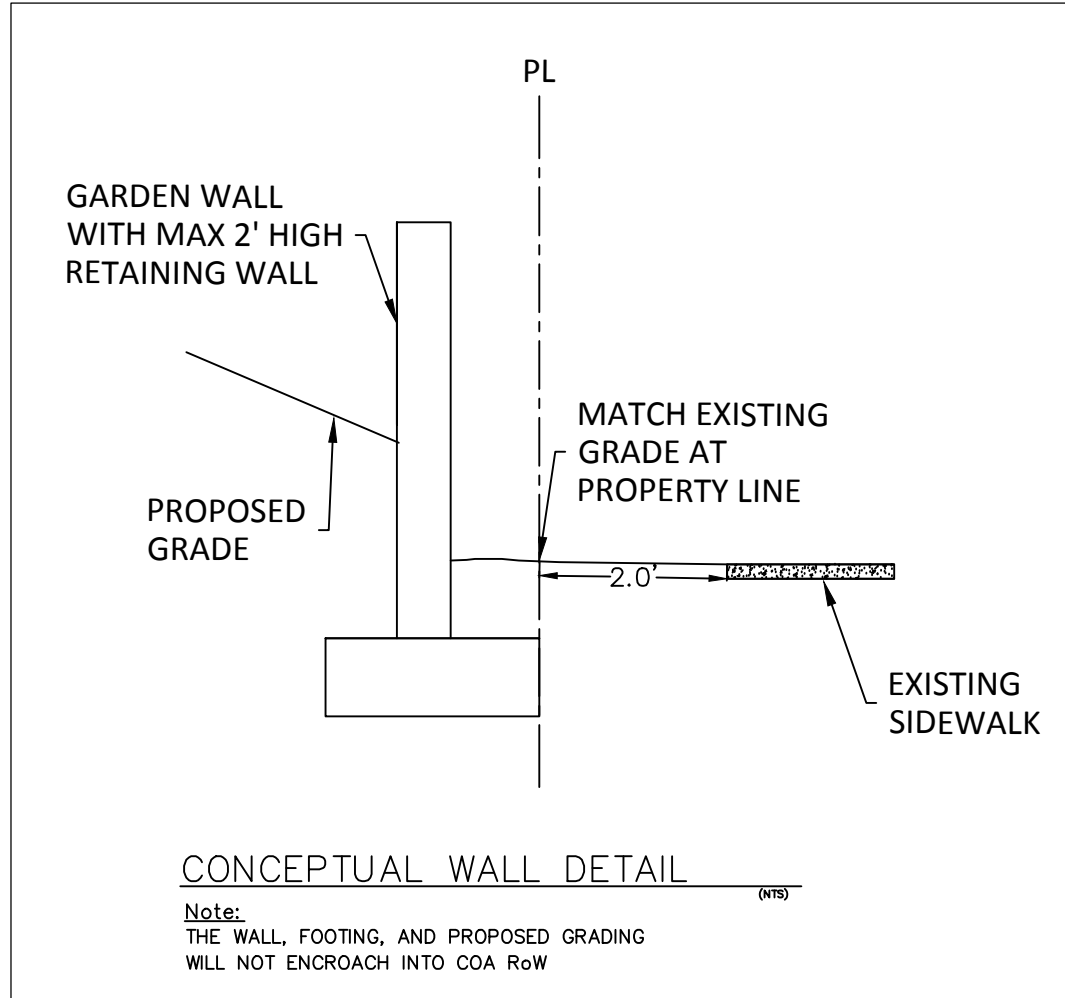
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ADD HYD PRINT HYD



LEGEND

---	PROPERTY LINE
---	EXIST. ELE.
---	EXISTING RETAINING WALL
---	PROPOSED RETAINING WALL
---	PROPOSED HIGH POINT
---	PROPOSED FLOW LINE
SD	PROPOSED SD
SD	PROPOSED SD INLET
SD	PROPOSED SD MANHOLE
SD	PROPOSED FINISHED FLOOR ELE.
SD	EXIST SD
SD	EXIST SD MANHOLE
SD	EXIST SD INLET



5971 JEFFERSON ST NE
ALBUQUERQUE, NM 87109
PHONE: 505.566.4187

RESPEC
WATER & NATURAL RESOURCES

DESIGNED	NF
DRAWN	NF
CHECKED	RB
DATE	2/14/2018

REVISION

STAMP

HIGH W. FLORES
NEW MEXICO
1963
2-14-18
LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

LEGAL DESCRIPTION:
LOTS 1, 2, 3, & 3031 & 32,
TRACT A UNIT B NORTH
ALBUQUERQUE ACERS

LEGACY NAA
APARTMENTS

CONCEPTUAL GRADING PLAN

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

SHEET NUMBER:
C-2