

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 29, 2024

Ted L. Barber, P.E.
Incline Engineering
236 Tano Road
Santa Fe, NM 887506

RE: 9101 Central Ave NW
Revised Grading and Drainage Plans
Engineer's Stamp Date: 05/21/24
Hydrology File: K09D002

Dear Mr. Barber:

Based upon the information provided in your submittal received 05/22/2024, the Revised Grading & Drainage Plans are approved for Building Permit, Grading Permit and SO-19 Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

NM 87103

www.cabq.gov

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality pond per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

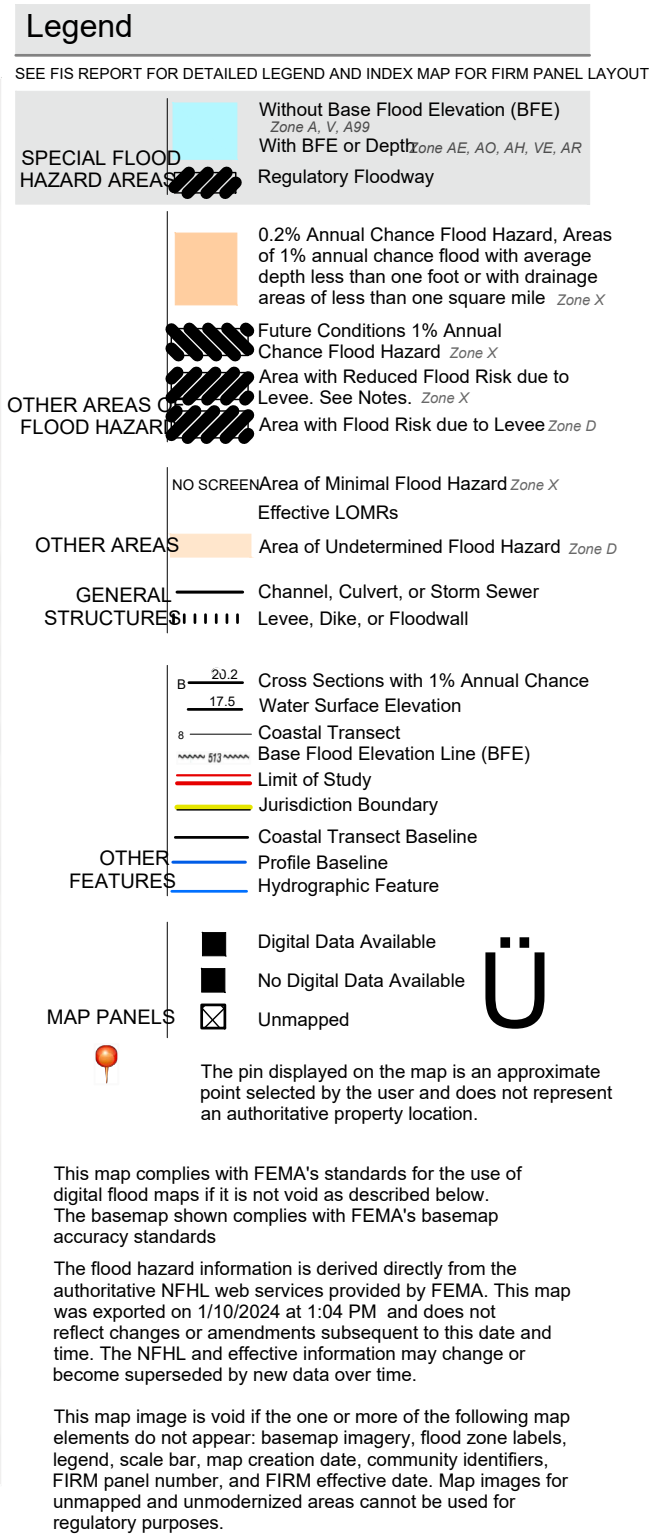
As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer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

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



1. EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY THE OWNERS. CONTRACTOR HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION. CONSTRUCTION PROJECT PROFESSIONAL SURVEYOR SHALL VERIFY EXISTING GRADES AND CONTROL PRESENTED ON THESE PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE. DISTURBED AREA FOR CONSTRUCTION IS OVER ONE ACRE, THEREFORE THE CONTRACTOR IS RESPONSIBLE FOR PREPARING EROSION AND SEDIMENT CONTROL (ESC) PLAN AND OWNER'S CERTIFIED NOTICE OF INTENT (NOI). CONTRACTOR SHALL SUBMIT THE ESC PLAN AND NOI TO THE COA STORMWATER QUALITY ENGINEER (DOUG HUGHES, PE, jhughes@cabq.gov, 505-924-3420) 14 DAYS PRIOR TO ANY EARTH DISTURBANCE.
3. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
5. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
6. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
7. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
8. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
9. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORM WATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.

10. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC. FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
11. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS ON THE GRADING AND DRAINAGE PLAN.
12. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
13. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
15. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
16. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
17. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
18. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.
19. ALL PAVING AND BASE COURSE WORK ON THE PROJECT SHALL COMPLY WITH THE CURRENT CITY OF ALBUQUERQUE PUBLIC WORKS CONSTRUCTION SPECIFICATION INCLUDING ALL RELATED SECTIONS.

[illegible]

IT IS THE CLIENT'S RESPONSIBILITY PRIOR TO OR DURING CONSTRUCTION TO NOTIFY THE ARCHITECT IN WRITING OF ANY PERCEIVED ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS OF WHICH A CONTRACTOR THOROUGHLY KNOWLEDGEABLE WITH THE BUILDING CODES AND METHODS OF CONSTRUCTION SHOULD REASONABLY BE AWARE. WRITTEN INSTRUCTIONS ADDRESSING SUCH PERCEIVED ERRORS OR OMISSIONS SHALL BE RECEIVED FROM THE ARCHITECT PRIOR TO THE CLIENT OR CLIENTS SUBCONTRACTORS PROCEEDING WITH THE WORK. THE CLIENT WILL BE RESPONSIBLE FOR ANY DEFECTS IN CONSTRUCTION IF THESE PROCEDURES ARE NOT FOLLOWED.

9101 CENTRAL
AVENUE NW

ALBUQUERQUE
NEW MEXICO

SITE LEGAL DESCRIPTION

LOTS FOUR (4) THROUGH EIGHT (8), BLOCK EIGHT (8) LANDS OF COSME Y LETICIA JAQUEZ
TOWN OF ATRISCO GRANT PROJECT SECTION 21, TOWNSHIP 10 NORTH RANGE 2 EAST,
N.M.P.M. BERNALILLO COUNTY, NEW MEXICO

The existing site is an approximate 1.15-acre site located at 9101 Central Ave. NW. The site is bounded on the south side by Central Ave frontage road, the north by existing development, and the east and west side by a vacant lots. This site can be accessed by going on I-40 west, taking the Coors exit south, and then turning right on Central Ave. (see vicinity map this sheet).

The existing site is estimated at 1.15 acres and has natural vegetation on the land. There is currently no development on the site. The runoff from this site is 1.77 cfs for the 100-yr 6-hour storm under existing conditions. This site is within the Amole-Hubbell Master Drainage Plan by Wilson (2013) and has a discharge rate of 4.11 cs/ac.

The site does not lie within a 100 year FEMA floodplain (see FEMA panel on this sheet). The site is not adversely impacted by offsite flows. The site currently slopes from west to east.

The proposed project will consist of a new building and paved parking lot. The site impervious area under proposed conditions will be 41579 sf or 0.95 ac. The new parking lot will be graded to drain south and east toward a new drainage pond located on the southeast corner of the site. The drainage calculations for proposed conditions are indicated on this sheet.

When fully developed as indicated on the grading and drainage plan, the runoff from the site is estimated at 4.49 cfs for the 100-year, 6-hour storm. The first flush pond volume for the new impervious area is 1448 cf. A new retention pond (volume 1476 cf) will be provided on the southeast corner of the site which will retain the first flush storm event. The 100-year, 6-hour storm flow of 4.49 cfs will enter the SWQ pond through an inlet weir with a capacity of 4.8 cfs. The pond outlet weir is designed the same as the inlet and will convey the design storm flow adequately. A double 24" (B=7") sidewalk culvert and connecting concrete channel will convey the flow from the property to the Central Ave frontage road ROW. The cross section of the connecting channel and sidewalk culvert are of greater cross section than the weirs.

City of Albuquerque
Planning Department
Development Review Services

HYDROLOGY SECTION

APPROVED

DATE: 05/29/24

BY: *Raele C. Bruneau*

HydroTrans # K09D002

THE APPROVAL OF THESE PLANS OR PORTION SHALL NOT BE
CONSIDERED TO BE VIOLATIONS OF ANY CITY
ORDINANCE OR STATE LAW, AND DOES NOT
GUARANTEE THE ACCURACY OF THE INFORMATION.
THE CITY OF ALBUQUERQUE TAKES NO
RESPONSIBILITY FOR ANY ERRORS, OMISSIONS,
CORRECTIONS, OR ERRORS OF JUDGMENT IN PLANS,
SPECIFICATIONS, OR CONNECTIONS. ALL APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

Liscense Stamp :



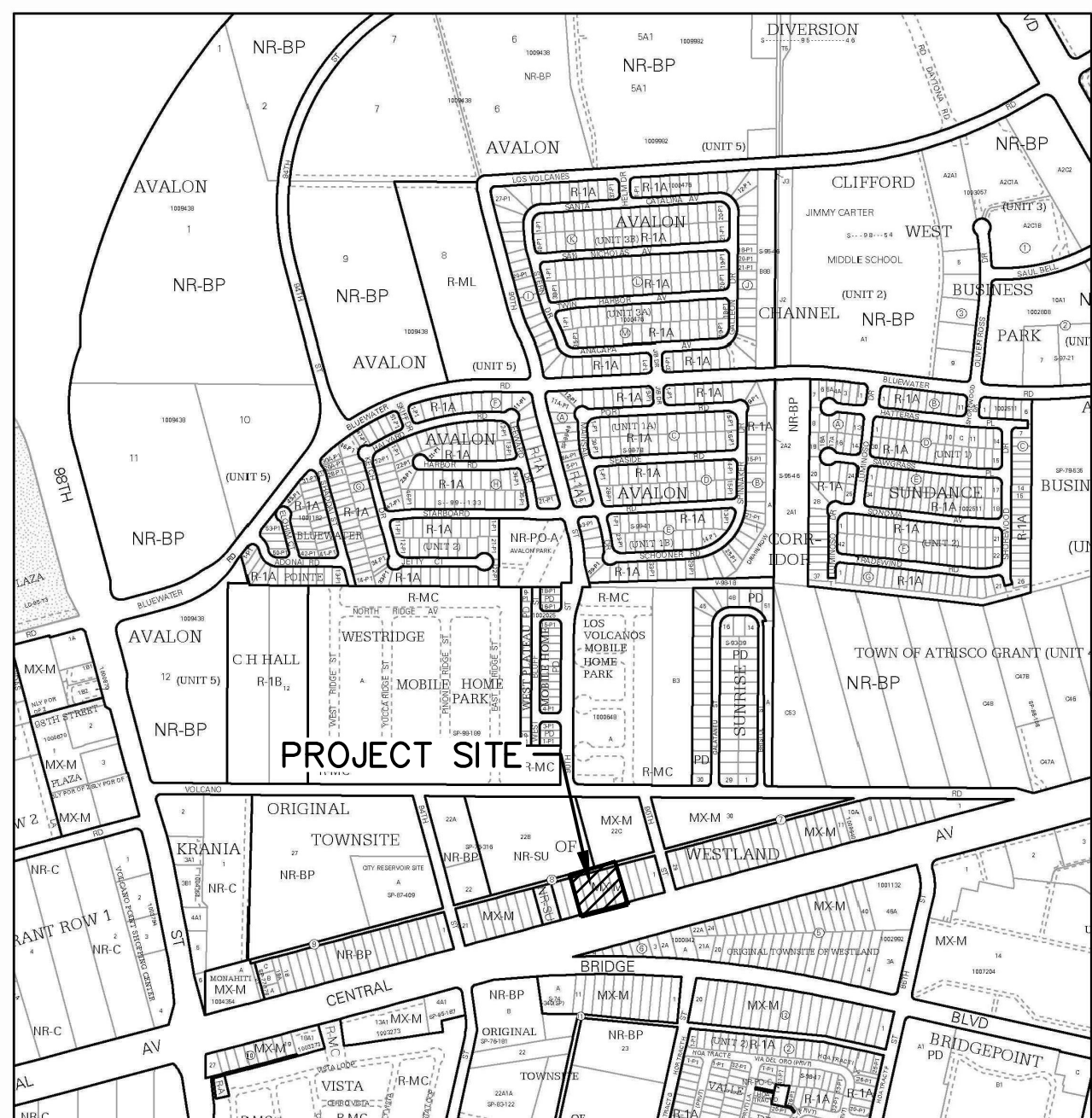
TED L. BARBER, PE
INCLINE ENGINEERING
236 TANO ROAD
SANTA FE, NM
505-577-6747

Sheet Title :
HYDROLOGY PLAN

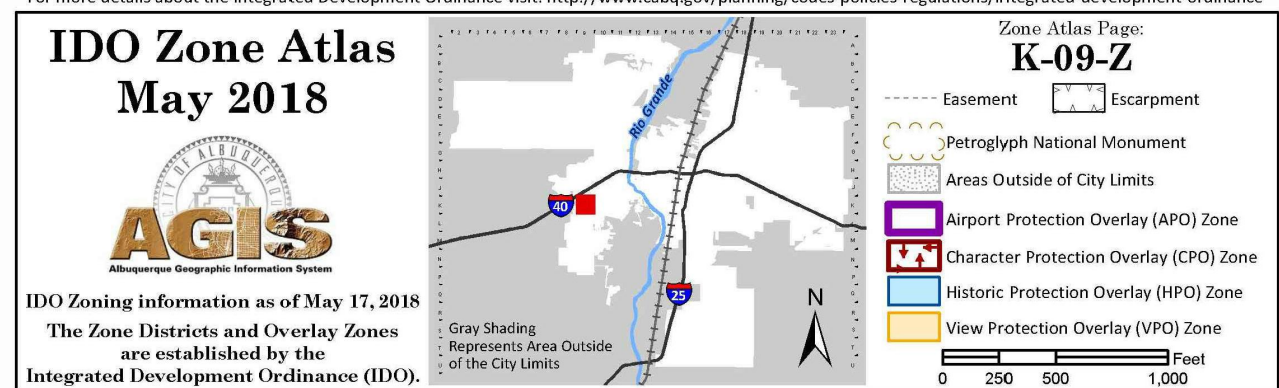
Sheet No. :

C-100

SCALE: NOT TO SCALE



For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>



Precipitation Zone (as per COA DPM Chapter 6 FIGURE 6.2.3 Precipitation Zones) = Zone 1				
Precipitation Depth (in) (as per COA DPM Chapter 6 TABLE 6.2.8) 100 yr storm	P100-6 =	2.17	P100-24 =	2.49
Peak Discharge (as per COA DPM Chapter 6 6.2.14) 100 yr storm	Q _{9A} (cfs/ac) Treatment A =	1.54		
	Q _{9B} (cfs/ac) Treatment B =	2.16		
	Q _{9C} (cfs/ac) Treatment C =	2.87		
	Q _{9D} (cfs/ac) Treatment D =	4.12		
6-HOUR Excess Precipitation, E (in.) (as per COA DPM Chapter 6 TABLE 6.2.13)				
Land Treatment Excess Precipitation(in) E	A	B	C	D
	0.55	0.73	0.95	2.24

Existing Conditions									
Basin	Basin Area (acre)	Land Treatment Area (acre) A				E _w (in)	V ₃₆₀ (acft)	V ₁₄₄₀ (acft)	Q ₃₆₀ (cfs)
		A _A	A _B	A _C	A _D				
Site	1.15	1.15	0	0	0	0.55	0.053	0.053	1.77

Site	1.15	0	0	0.20	0.95	2.02	0.193	0.219	4.49
$Weighted\ E_{avg} = \frac{E_{avg}A_1}{A_1 + A_2 + A_3} + \frac{E_{avg}A_2}{A_1 + A_2 + A_3} + \frac{E_{avg}A_3}{A_1 + A_2 + A_3}$ $V_{avg} = E_{avg} \cdot A_{avg} / 12\ mft$ $V_{avg} = V_{avg} \cdot A_{avg} / 12\ mft$ $Q_{avg} = V_{avg} \cdot A_{avg} / (P_{avg} / 12\ mft)$ $Q_{avg} = Q_{avg} \cdot A_{avg} / (Q_{avg} / 12\ mft)$									
Wier Design Flow (COA DPM Chapter 6 6-16(A))=	2.7	x		L (crest length ft)	4.5		H ^{3/2} (Ht. of flow = 7")	4.8	cfs

Required Water Quality Retention Pond Volume=	0.95	x	0.42	=	1448 cuft
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Area Pond = 328 sqft
Depth required = 4.4 ft
Depth provided= 4.5 ft

Elev	Area		Volume	Cum Volume	Cum Volume
(ft)	(sqft)	(acre)	(acre-ft)	(acre-ft)	(cf)
5144.5	328	0.0075	0.0000	0	0
5145.5	328	0.0075	0.0075	0.0075	328
5146.5	328	0.0075	0.0075	0.0151	656
5147.5	328	0.0075	0.0075	0.0226	984
5148.5	328	0.0075	0.0075	0.0301	1312
5149	328	0.0038	0.0038	0.0339	1476

> 1448

SCALE: NOT TO SCALE

