

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

July 11, 2025

David Soule, P.E.  
Rio Grande Engineering  
P.O. Box 93924  
Albuquerque, NM 87199

**RE: 3819 Mourningt Dove Pl. NW  
Grading & Drainage Plan  
Engineer's Stamp Date: 7/7/25  
Hydrology File: G11D014D2  
Case # HYDR-2025-00240**

Dear Mr. Soule:

Based upon the information provided in your submittal received 07/07/2025, the Grading & Drainage Plan is approved for Building Permit and Grading Permit. Please note that a pad certification is not required for this site. 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

Albuquerque

NM 87103

www.cabq.gov

**PRIOR TO CERTIFICATE OF OCCUPANCY:**

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

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](mailto:jhughes@cabq.gov), 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or [amontoya@cabq.gov](mailto:amontoya@cabq.gov).

Sincerely,

Anthony Montoya, Jr., P.E., CFM  
Senior Engineer, Hydrology  
Planning Department, Development Review Services

**BASIN DATA**

Basin	Area (sf)	Area (acres)	Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)	Q100 GENERATED	V100 GENERATED	Q100 DISCHARGED		
Proposed basin A	14052.21	0.323	10%	0.0156	18.0%	0.0747	28.0%	0.0762	44%	0.0527	0.239
Proposed basin B	4164.61	0.096	14%	0.0156	2.0%	0.0747	2.0%	0.0762	82%	0.0527	0.25
EXISTING 1	18216.82	0.418	98%	0.4098	0.0%	0.0000	0.0%	0.0000	2%	0.0084	0.54

FIRST FLUSH REQUIREMENT= 161 CF

HISTORICAL PROPOSED 0.54 CFS 0.45 CFS

RETENTION POND WITH WATER QUALITY VOLUME  
 TOP= 5051.35  
 OVERFLOW= 5050.85  
 4" OUTLET @ 5049.35  
 BOTTOM= 5048.50  
 MWSEL= 5050.28  
 RETAINED VOLUME= 347 CF

**DRAINAGE NARRATIVE**

SITE IS LOCATED WITHIN THE OXBOW MASTER DRAINAGE PLAN. THE SITE IS REQUIRED TO MATCH HISTORICAL FLOW. THIS IS ACCOMPLISHED BY DRAINING BASIN A THROUGH A DETENTION POND. THE POND RETAINS 347 CUBIC FEET OF WATER AND METERS THE REMAINING FLOW THROUGH A 4" OUTLET. THE WATER QUALITY VOLUME IS RETAINED AND THE PROPOSED FLOW OF 0.45 CFS IS LESS THAN THE EXISTING FLOW OF 0.54 CFS

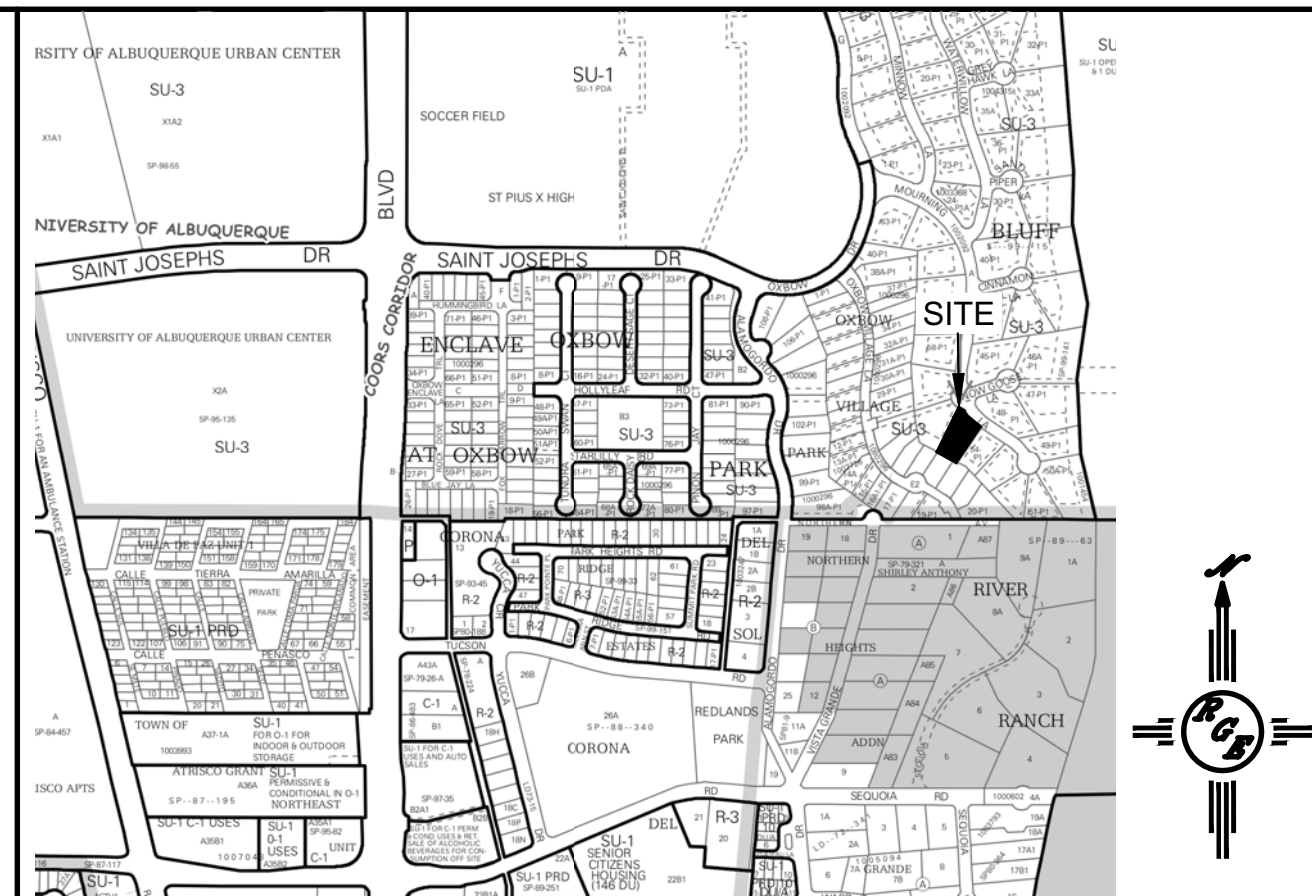
**EROSION CONTROL NOTES:**

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

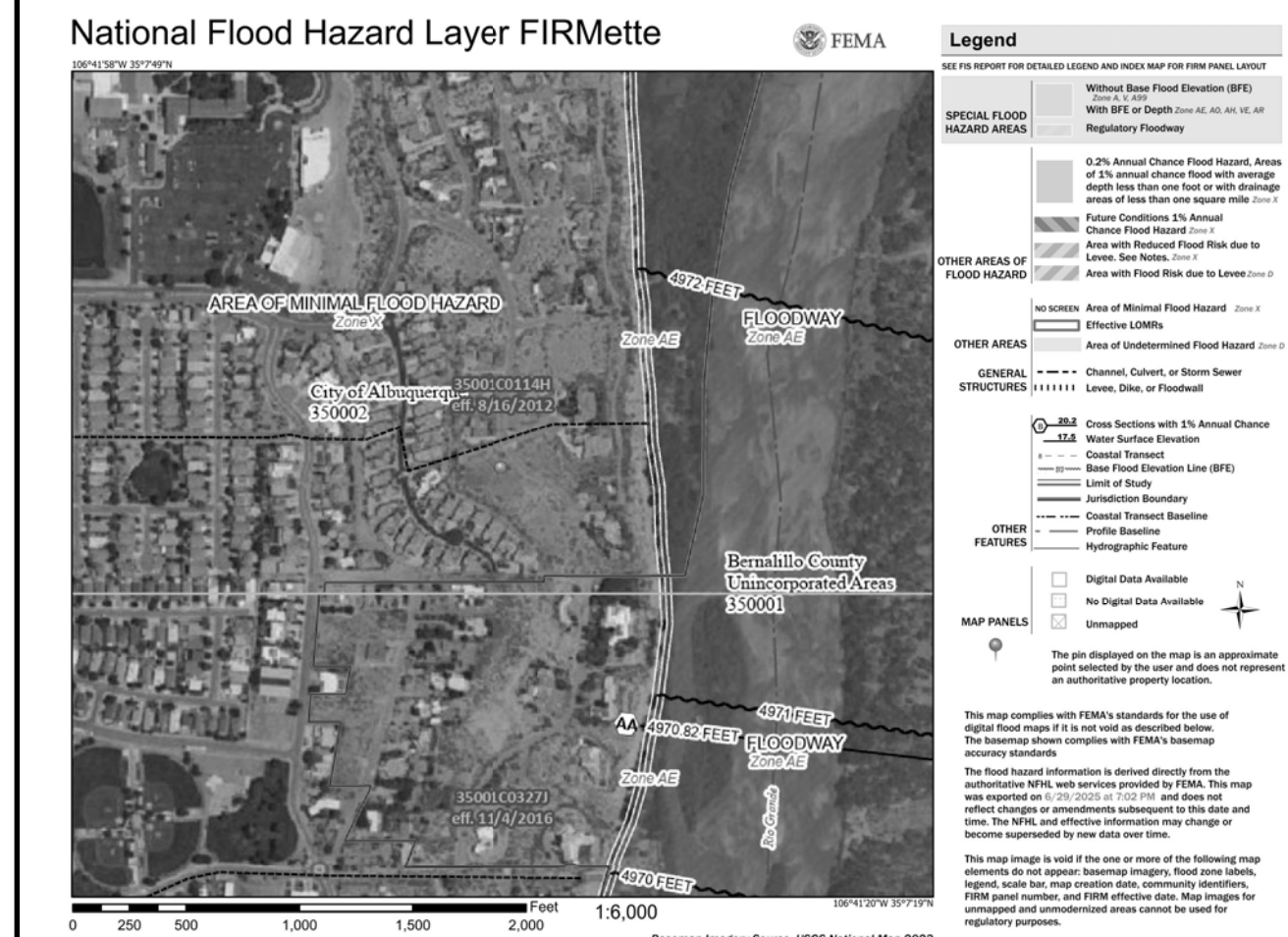
**City of Albuquerque  
 Planning Department  
 Development Review Services  
 HYDROLOGY REVIEW SECTION  
 APPROVED**

DATE: 7/11/2025  
 BY: *David Soule*  
 HydroTrans #: G11D014D2

THE APPROVAL OF THESE PLANS REPORTS SHALL NOT BE CONSIDERED TO BE A VIOLATION OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.  
 THE APPROVAL OF THESE PLANS REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.



**VICINITY MAP: G-11-Z**



**FIRM MAP:**

**LEGAL DESCRIPTION:**

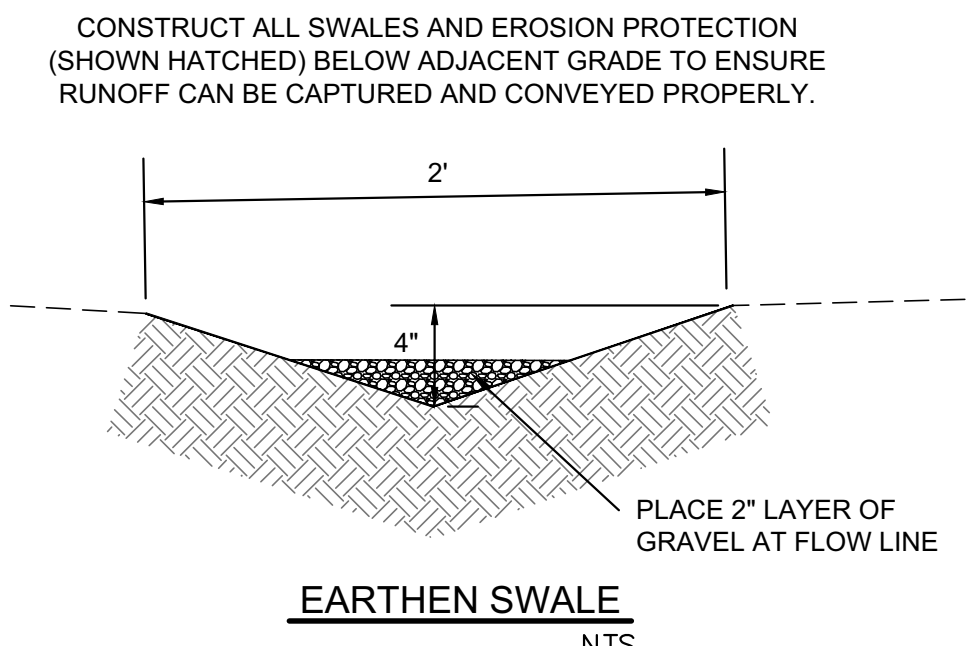
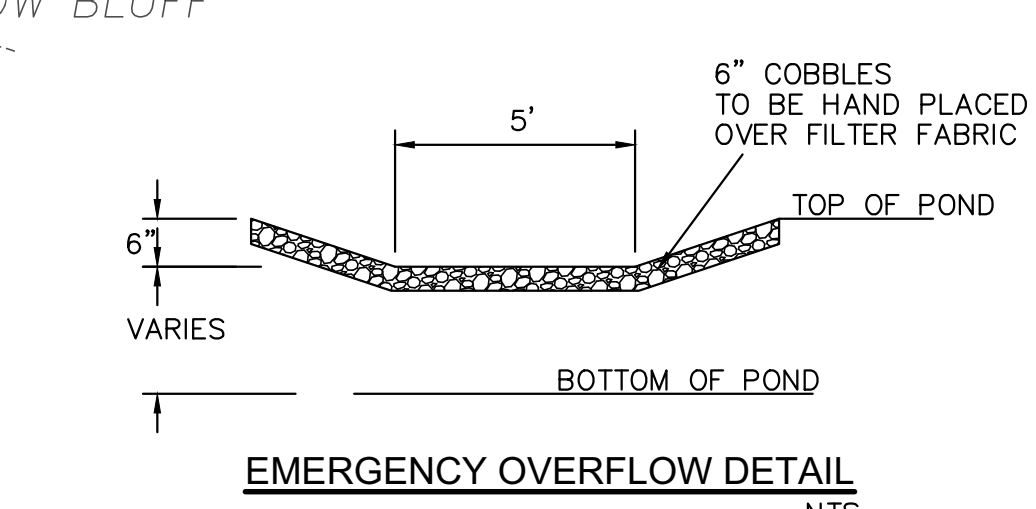
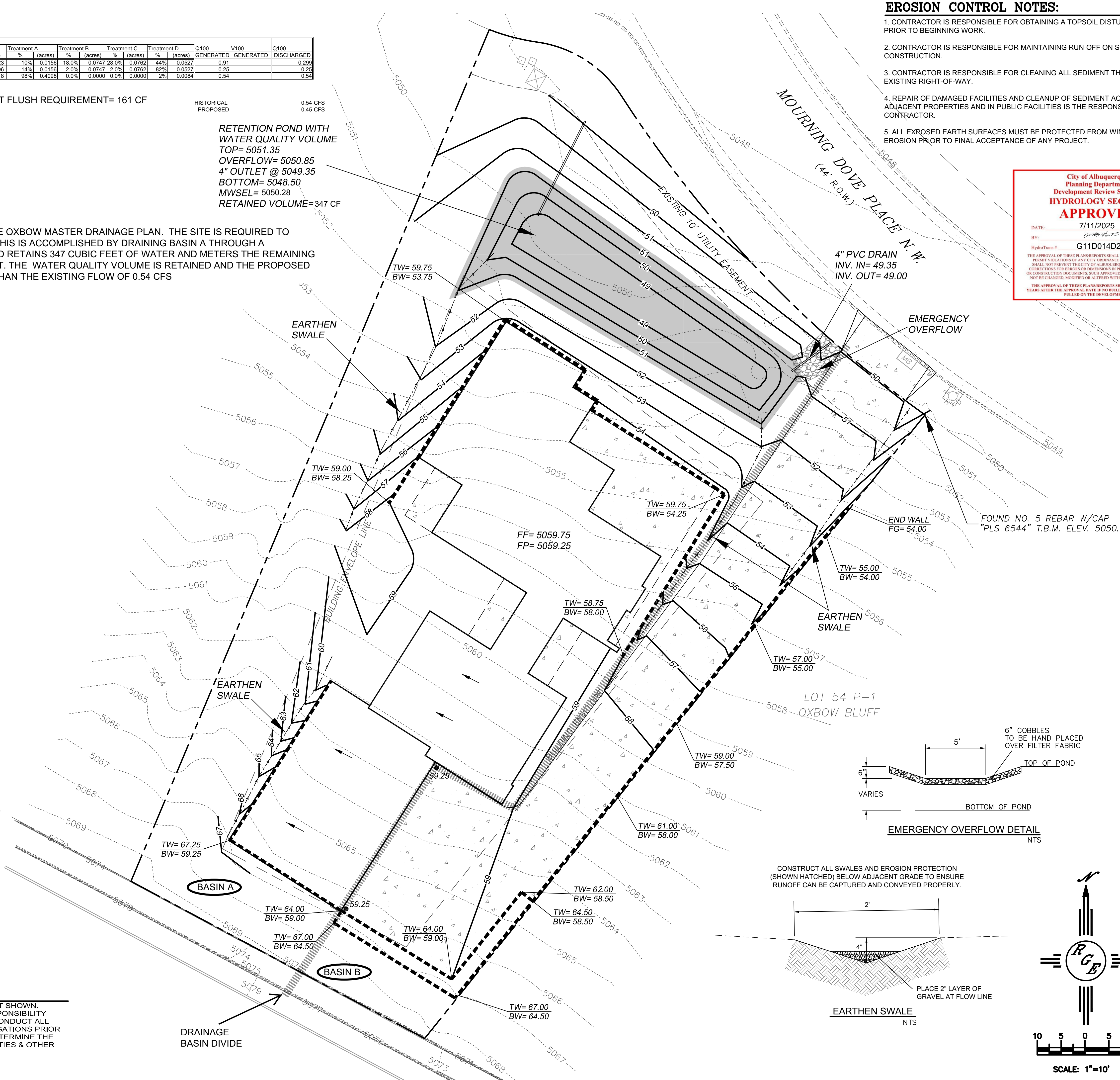
LOT 55 OXBOW BLUFF  
 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

**LEGEND**

-----	EXISTING CONTOUR
-----	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
-----	PROPOSED INDEX CONTOUR
•	EXISTING SPOT ELEVATION
•	PROPOSED SPOT ELEVATION
---	BOUNDARY
---	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----	PROPOSED EARTHEN SWALE
-----	PROPOSED RETAINING WALL
-----	PROPOSED CONCRETE
-----	PROPOSED PONDING



**CAUTION:**  
 EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

**RGE**

DAVID SOULE  
 PROFESSIONAL ENGINEER  
 14522

7/7/25

SCALE: 1"=10'

ENGINEER'S SEAL	<b>LOT 55 OXBOW BLUFF 3819 MOURNING DOVE PL NW</b>	DRAWN BY DEM
	<b>GRADING AND DRAINAGE PLAN</b>	DATE 6-30-25
		2019 Mourning Dove Milling.dwg
		SHEET # C1
		JOB #

**BASIN DATA**

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Proposed basin A	14052.21	0.323	10%	0.0156	18.0%	0.0747	28.0%	0.0762	44%	0.0527	0.91	0.29
Proposed basin B	4164.61	0.096	14%	0.0156	2.0%	0.0747	2.0%	0.0762	82%	0.0527	0.25	0.25
EXISTING 1	18216.82	0.418	98%	0.4098	0.0%	0.0000	0.0%	0.0000	2%	0.0084	0.54	0.54

HISTORICAL 0.54 CFS  
PROPOSED 0.45 CFS

**VOLUME CALCULATIONS**

STAGE-STORAGE FOR POND A

ACTUAL ELEV	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVE	VOLUME AC-FT	Q (CFS)
Bottom	48.50	0.00	215.68	0.00	0.0000	0.00
drain	49.35	0.00	601.57	347.33	347.33	0.0080
overflow	50.85	1.33	1123.35	1293.69	1641.02	0.0377

Orifice Equation  
Q = CA SQRT(2gh)

C = 0.6  
Diameter (in) 4  
Area (ft<sup>2</sup>)= 0.087266463  
g = 32.2  
H (ft) = Depth of water above center of orifice  
Q (CFS) = Flow

AHYMO.DAT  
AHYMO PROGRAM (AHYMO-54) - version: 54.01a - Rel: 01a  
RUN DATE (MON/DAY) = 07/07/2025  
START TIME (HR:MIN:SEC) = 09:25:02  
INLET FILE = memis and Settings\memis\Desktop\2025\jobs\24541-3819 mourning\pondrout070725.txt

\*S AHYMO - DETENTION-Mourning Dove  
\*S POND ROUTER=3  
START TIME=0.0 PUNCH CODE=0

RAINFALL TYPE=2  
QUARTER=0 ONE=1.69 IN SIX=2.49 IN DT = 0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (M & AZ) - D1  
DT = 0.050000 HOURS - END TIME = 24.000000 HOURS

DT	0.0000	0.0010	0.0065	0.0300	0.0718	0.1218	0.2222
0.0285	0.0385	0.0492	0.0603	0.0723	0.0845	0.0971	
0.1103	0.1213	0.1378	0.1511	0.1606	0.1694	0.1758	
0.2486	0.2617	0.3111	0.3926	0.4614	0.5002	0.7649	
1.0813	1.2537	1.4791	1.6672	1.6444	1.4999	1.7441	
1.7826	1.8108	1.8366	1.8580	1.8754	1.8909	1.9048	
1.9178	1.9296	1.9403	1.9510	1.9617	1.9698	1.9746	
1.9791	1.9819	1.9842	1.9851	1.9857	1.9860	1.9864	
2.0087	0.0124	0.0162	0.0188	0.0214	0.0245	0.0303	
2.0319	0.0189	0.0400	0.0431	0.0444	0.0449	0.0451	
2.0545	0.0284	0.0601	0.0642	0.0670	0.0698	0.0725	
2.0771	0.0384	0.0806	0.0851	0.0879	0.0898	0.0910	
2.0935	0.0460	0.0985	0.1009	0.1033	0.1057	0.1081	
2.1104	0.0518	0.1111	0.1137	0.1166	0.1188	0.1210	
2.1262	0.0584	0.1206	0.1227	0.1248	0.1269	0.1290	
2.1430	0.0631	0.1281	0.1297	0.1318	0.1339	0.1350	
2.1550	0.0669	0.1348	0.1367	0.1386	0.1404	0.1423	
2.1682	0.0700	0.1401	0.1417	0.1431	0.1445	0.1458	
2.1793	0.0726	0.1451	0.1467	0.1480	0.1494	0.1507	
2.1888	0.0747	0.1498	0.1513	0.1526	0.1539	0.1551	
2.1978	0.0764	0.1542	0.1556	0.1569	0.1581	0.1593	
2.2062	0.0778	0.1583	0.1596	0.1608	0.1620	0.1631	
2.2141	0.0789	0.1622	0.1634	0.1645	0.1656	0.1667	
2.2217	0.0798	0.1659	0.1670	0.1681	0.1691	0.1701	
2.2292	0.0806	0.1694	0.1704	0.1714	0.1724	0.1733	
2.2351	0.0812	0.1729	0.1738	0.1747	0.1756	0.1765	
2.2394	0.0817	0.1742	0.1751	0.1760	0.1769	0.1777	
2.2438	0.0821	0.1754	0.1763	0.1771	0.1779	0.1787	
2.2478	0.0824	0.1765	0.1773	0.1781	0.1789	0.1796	
2.2514	0.0826	0.1775	0.1783	0.1790	0.1797	0.1804	
2.2548	0.0827	0.1784	0.1791	0.1798	0.1804	0.1810	
2.2581	0.0828	0.1792	0.1799	0.1805	0.1811	0.1817	
2.2612	0.0828	0.1799	0.1805	0.1811	0.1817	0.1822	
2.2642	0.0828	0.1805	0.1811	0.1817	0.1822	0.1827	
2.2670	0.0828	0.1810	0.1816	0.1822	0.1827	0.1832	
2.2697	0.0828	0.1815	0.1821	0.1827	0.1832	0.1837	
2.2723	0.0828	0.1820	0.1826	0.1832	0.1837	0.1842	
2.2749	0.0828	0.1825	0.1831	0.1837	0.1842	0.1847	
2.2774	0.0828	0.1830	0.1836	0.1842	0.1847	0.1852	
2.2799	0.0828	0.1835	0.1841	0.1847	0.1852	0.1857	
2.2824	0.0828	0.1840	0.1846	0.1852	0.1857	0.1862	
2.2849	0.0828	0.1845	0.1851	0.1857	0.1862	0.1867	
2.2874	0.0828	0.1850	0.1856	0.1862	0.1867	0.1872	
2.2899	0.0828	0.1855	0.1861	0.1867	0.1872	0.1877	
2.2924	0.0828	0.1860	0.1866	0.1872	0.1877	0.1882	
2.2949	0.0828	0.1865	0.1871	0.1877	0.1882	0.1887	
2.2974	0.0828	0.1870	0.1876	0.1882	0.1887	0.1892	
2.2999	0.0828	0.1875	0.1881	0.1887	0.1892	0.1897	
2.3024	0.0828	0.1880	0.1886	0.1892	0.1897	0.1902	
2.3049	0.0828	0.1885	0.1891	0.1897	0.1902	0.1907	
2.3074	0.0828	0.1890	0.1896	0.1902	0.1907	0.1912	
2.3099	0.0828	0.1895	0.1901	0.1907	0.1912	0.1917	
2.3124	0.0828	0.1900	0.1906	0.1912	0.1917	0.1922	
2.3149	0.0828	0.1905	0.1911	0.1917	0.1922	0.1927	
2.3174	0.0828	0.1910	0.1916	0.1922	0.1927	0.1932	
2.3199	0.0828	0.1915	0.1921	0.1927	0.1932	0.1937	
2.3224	0.0828	0.1920	0.1926	0.1932	0.1937	0.1942	
2.3249	0.0828	0.1925	0.1931	0.1937	0.1942	0.1947	
2.3274	0.0828	0.1930	0.1936	0.1942	0.1947	0.1952	
2.3299	0.0828	0.1935	0.1941	0.1947	0.1952	0.1957	
2.3324	0.0828	0.1940	0.1946	0.1952	0.1957	0.1962	
2.3349	0.0828	0.1945	0.1951	0.1957	0.1962	0.1967	
2.3374	0.0828	0.1950	0.1956	0.1962	0.1967	0.1972	
2.3399	0.0828	0.1955	0.1961	0.1967	0.1972	0.1977	
2.3424	0.0828	0.1960	0.1966	0.1972	0.1977	0.1982	
2.3449	0.0828	0.1965	0.1971	0.1977	0.1982	0.1987	
2.3474	0.0828	0.1970	0.1976	0.1982	0.1987	0.1992	
2.3499	0.0828	0.1975	0.1981	0.1987	0.1992	0.1997	
2.3524	0.0828	0.1980	0.1986	0.1992	0.1997	0.2002	
2.3549	0.0828	0.1985	0.1991	0.1997	0.2002	0.2007	
2.3574	0.0828	0.1990	0.1996	0.2002	0.2007	0.2012	
2.3599	0.0828	0.1995	0.2001	0.2007	0.2012	0.2017	
2.3624	0.0828	0.2000	0.2006	0.2012	0.2017	0.2022	
2.3649	0.0828	0.2005	0.2011	0.2017	0.2022	0.2027	
2.3674	0.0828	0.2010	0.2016	0.2022	0.2027	0.2032	
2.3699	0.0828	0.2015	0.2021	0.2027	0.2032	0.2037	
2.3724	0.0828	0.2020	0.2026	0.2032	0.2037	0.2042	
2.3749	0.0828	0.2025	0.2031	0.2037	0.2042	0.2047	
2.3774	0.0828	0.2030	0.2036	0.2042	0.2047	0.2052	
2.3799	0.0828	0.2035	0.2041	0.2047	0.2052	0.2057	
2.3824	0.0828	0.2040	0.2046	0.2052	0.2057	0.2062	
2.3849	0.0828	0.2045	0.2051	0.2057	0.2062	0.2067	
2.3874	0.0828	0.2050	0.2056	0.2062	0.2067	0.2072	
2.3899	0.0828	0.2055	0.2061	0.2067	0.2072	0.2077	
2.3924	0.0828	0.2060	0.2066	0.2072	0.2077	0.2082	
2.3949	0.0828	0.2065	0.2071	0.2077	0.2082	0.2087	
2.3974	0.0828	0.2070	0.2076	0.2082	0.2087	0.2092	
2.3999	0.0828	0.2075	0.2081	0.2087	0.2092	0.2097	
2.4024	0.0828	0.2080	0.2086	0.2092	0.2097	0.2102	
2.4049	0.0828	0.2085	0.2091	0.2097	0.2102	0.2107	
2.4074	0.0828	0.2090	0.2096	0.2102	0.2107	0.2112	
2.4099	0.0828	0.2095	0.2101	0.2107	0.2112	0.2117	
2.4124	0.0828	0.2100	0.2106	0.2112	0.2117	0.2122	
2.4149	0.0828	0.2105	0.2111	0.2117	0.2122	0.2127	
2.4174	0.0828	0.2110	0.2116	0.2122	0.2127	0.2132	
2.4199	0.0828	0.2115	0.2121	0.2127	0.2132	0.2137	
2.4224	0.0828	0.2120	0.2126	0.2132	0.2137	0.2142	
2.4249	0.0828	0.2125	0.2131	0.2137	0.2142	0.2147	
2.4274	0.0828	0.2130	0.2136	0.2142	0.2147	0.2152	
2.4299	0.0828	0.2135	0.2141	0.2147	0.2152	0.2157	
2.4324	0.0828	0.2140	0.2146	0.2152	0.2157	0.2162	
2.4349	0.0828	0.2145	0.2151	0.2157	0.2162	0.2167	
2.4374	0.0828	0.2150	0.2156	0.2162	0.2167	0.2172	
2.4399	0.0828	0.2155	0.2161	0.2167	0.2172	0.2177	
2.4424	0.0828	0.2160	0.2166	0.2172	0.2177	0.2182	
2.4449	0.0828	0.2165	0.2171	0.2177	0.2182	0.2187	
2.4474	0.0828	0.2170	0.2176	0.2182	0.2187	0.2192	
2.4499	0.0828	0.2175	0.2181	0.2187	0.2192	0.2197	
2.4524	0.0828	0.2180	0.2186	0.2192	0.2197	0.2202	
2.4549	0.0828	0.2185	0.2191	0.2197	0.2202	0.2207	
2.4574	0.0828	0.2190	0.2196	0.2202	0.2207	0.2212	
2.4599	0.0828	0.2195	0.2201	0.2207	0.2212	0.2217	
2.4624	0.0828	0.2200	0.2206	0.2212	0.2217	0.2222	
2.4649	0.0828	0.2205	0.2211	0.2217	0.2222	0.2227	
2.4674	0.0828	0.2210	0.2216	0.2222	0.2227	0.2232	
2.4699	0.0828	0.2215	0.2221	0.2227	0.2232	0.2237	
2.4724	0.0828	0.2220	0.2226	0.2232	0.2237	0.2242	
2.4749	0.0828	0.2225	0.2231	0.2237	0.2242	0.2247	
2.4774	0.0828	0.2230	0.2236	0.2242	0.2247	0.2252	
2.4799	0.0828	0.2235	0.2241	0.2247	0.2252	0.2257	
2.4824	0.0828	0.2240	0.2246	0.2252	0.2257	0.2262	
2.4849	0.0828	0.2245	0.2251	0.2257	0.2262	0.2267	
2.4874	0.0828	0.2250	0.2256	0.2262	0.2267	0.2272	
2.4899	0.0828						