

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE LOWER NORTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED CONSTRUCTION CONSISTS OF THE REMOVAL AND REPLACEMENT OF AN EXISTING BUILDING WITH A NEW CREMATORY WITHIN AN EXISTING PAVED PORTION OF THE SITE. THE DRAINAGE CONCEPT WILL BE TO ROUTE THE NEW ROOF RUNOFF INTO A LANDSCAPED WATER HARVESTING AREA TO CAPTURE AND TREAT THE FIRST FLUSH. THIS CONCEPT WAS PROPOSED BY THE CURRENT CONCEPTUAL GRADING AND DRAINAGE PLAN DATED 09-01-2015.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE PROPOSED PROJECT SITE IS LOCATED AT THE NORTHEAST CORNER OF THE OVERALL SITE. THAT IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF MENAUL BLVD. NE AND EDITH BLVD. NE. AS SHOWN BY PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, AUGUST 16, 2012, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE, HOWEVER DOES LIE IMMEDIATELY ADJACENT TO A DESIGNATED FLOOD HAZARD ZONE WHERE THE 100-YEAR FLOOD IS CONTAINED IN THE CONSTRUCTED CHANNEL (STREET).

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- MASTER DRAINAGE PLAN (MDP) PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY TOM MANN & ASSOCIATES, INC. AND JEFF MORTENSEN & ASSOCIATES, INC.) DATED 04-20-1987 AND PERIODICALLY UPDATED AS REFERENCED ABOVE. THE 03-10-2008 UPDATE SPECIFICALLY ADDRESSED THE URN GARDEN AREA INCLUDING THE CURRENT PROJECT SITE. THE UPDATED MDP PROVIDES THE CONCEPT BASIS FOR SITE DRAINAGE.
- CONCEPTUAL GRADING AND DRAINAGE PLAN FOR SUNSET MEMORIAL PARK PREPARED BY HIGH MESA CONSULTING GROUP DATED 09-10-2015. THIS REFERENCE DRAINAGE SUBMITTAL IDENTIFIES THE DRAINAGE CONCEPT FOR THIS SITE SPECIFIC PROJECT WITHIN THE LARGER OVERALL SITE. THE CONCEPT IDENTIFIED IS TO ROUTE NEW ROOF RUNOFF TO A NEW WATER HARVESTING AREA WITHIN AN EXISTING LANDSCAPED AREA TO CAPTURE AND TREAT THE FIRST FLUSH.
- PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 10-21-2014 AND EXPANDED 08-27-2015. THE SUBJECT SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE AS DEPICTED BY THIS SUBMITTAL.

IV. EXISTING CONDITIONS

THE PROJECT SITE PRESENTLY CONSISTS OF A DEVELOPED PORTION OF THE SUNSET MEMORIAL PARK CEMETERY. THE PROJECT SITE COMPRISES EXISTING MAINTENANCE AND SUPPORT BUILDINGS, ASPHALT PAVING AND LANDSCAPING. AT PRESENT, THIS PORTION OF THE SITRE DRAINS FROM SOUTH TO NORTH TO THE URN GARDEN LOOP ROAD FROM WHENCE RUNOFF FLOWS WEST THROUGH THE EXISTING CEMETERY PROPERTY. THE SITE RUNOFF THAT DRAINS WEST INTERNAL TO THE PARK TRENDS TOWARD EDITH BLVD. NE. AS DESCRIBED IN THE AFOREMENTIONED MASTER DRAINAGE PLAN UPDATE, RUNOFF GENERATED BY THE PARK AND REACHING THE WESTERLY LIMITS IS COLLECTED BY A PRIVATE STORM DRAIN SYSTEM THAT CONNECTS TO THE PUBLIC STORM DRAIN SYSTEM WITHIN EDITH BLVD. NE, THE OUTFALL FOR THE SITE.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THE PROJECT SITE AS THE SITE IS TOPOGRAPHICALLY HIGHER THAN THE ADJACENT PARK IMPROVEMENTS. MORE IMPORTANTLY, THE PROJECT SITE IS INTERNAL TO THE PARK THEREBY PROTECTING IT FROM POTENTIAL OFFSITE FLOWS FROM NEIGHBORING SITES. THE FLOODPLAIN ASSOCIATED WITH MENAUL BLVD. NE IS NOT ONLY TOPOGRAPHICALLY LOWER THAN THE PARK, BUT IS SEPARATED BY A RETAINING WALL ON THE NORTH PROPERTY LINE OF THE PARK AND SIGNIFICANT HORIZONTAL DISTANCE. THE RETAINING WALL ON THE NORTH PROPERTY LINE ALLOWS THE SITE TO BE TOPOGRAPHICALLY HIGHER THAN THE ADJACENT RIGHT-OF-WAY WHERE FLOOD WATERS ARE CONFINED TO THE CONSTRUCTED STREET.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF A NEW CREMATORY BUILDING WITHIN THE SAME FOOTPRINT AS AN EXISTING BUILDING THAT WILL BE DEMOLISHED. A MINOR AMOUNT OF EXISTING ASPHALT PAVING WILL BE REMOVED AND REPLACED. NO ADDITIONAL IMPERVIOUS AREA WILL BE CREATED BY THIS PROJECT. RUNOFF GENERATED BY THE NEW ROOF AREA WILL BE ROUTED VIA GUTTERS AND ROOF DRAINS TO DISCHARGE AT THE NORTHWEST CORNER OF THE NEW BUILDING. THE ROOF RUNOFF WILL DISCHARGE TO A NEW WATER HARVESTING AREA WITHIN AN EXISTING LANDSCAPED AREA WHERE THE RUNOFF WILL BE CONTAINED. THE WATER HARVESTING AREA, WHEN FILLED TO CAPACITY, WILL OVERFLOW WEST TO ENTER LOMBARDY DRIVE, AN INTERNAL PRIVATE ROADWAY. FROM THIS POINT, SITE RUNOFF FLOWS WEST INTERNAL TO THE SITE TOWARD EDITH BLVD. NE. AS INDICATED ABOVE, RUNOFF GENERATED BY THE PARK AND REACHING THE WESTERLY LIMITS IS COLLECTED BY A PRIVATE STORM DRAIN SYSTEM THAT CONNECTS TO THE PUBLIC STORM DRAIN SYSTEM WITHIN EDITH BLVD. NE, THE OUTFALL FOR THE SITE. AS THE RESULT OF THE NEW WATER HARVESTING AREA WITH LIMITED RETENTION CAPABILITIES, THE SITE WILL EXPERIENCE A SLIGHT DECREASE IN THE AMOUNT OF DEVELOPED GENERATED AND EXITING THE SITE.

AS IN THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

VI. GRADING PLAN

THE GRADING PLANS SHOW 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF DISCHARGE FROM EAST TO WEST WITH RUNOFF STAYING INTERNAL TO THE OVERALL SITE BEFORE OUTFALLING TO EDITH BLVD. NE.

THE GRADING PLAN ALSO IDENTIFIES ONE (1) WATER HARVESTING AREA DEPRESSED TO PROVIDE AN APPROXIMATE 6-INCHES OF STORAGE DEPTH PRIOR TO OVERFLOWING TO ADJACENT PARK IMPROVEMENTS. THE WATER HARVESTING AREA IS DESIGNED TO CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF FROM THE ROOF AREA OF THE NEW CREMATORY.

VII. EROSION CONTROL PLAN

THIS PROJECT DISTURBS LESS THAN ONE-ACRE OF LAND. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS NOT BEEN PREPARED. THE SMALL SIZE OF THIS PROJECT DOES NOT WARRANT THE PREPARATION OF A SITE SPECIFIC EROSION CONTROL PLAN. IT SHOULD BE NOTED, HOWEVER, THAT ANY SEDIMENT DISCHARGED INTO THE INTERNAL STREETS WITHIN THE PARK WILL BE PROMPTLY REMOVED BY PARK STAFF AS PART OF THEIR DUTIES TO KEEP THE PREMISES CLEAN AND PRESENTABLE AT ALL TIMES.

VIII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED PROJECT WILL RESULT IN NO INCREASE IN THE DEVELOPED RUNOFF GENERATED BY THE PROJECT SITE. DEVELOPED RUNOFF FROM THE NEW ROOF AREA WILL BE MITIGATED BY WATER HARVESTING. THE WATER HERVESTING AREA WILL CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF GENERATED BY THE NEW CREMATORY BUILDING. THE VOLUME OF RUNOFF CAPTURED AND THUS TREATED IS CALCULATED USING THE AVERAGE END AREA METHOD.

IX. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN:

- THIS PROJECT IS CHARACTERIZED AS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA.
- THE PROPOSED IMPROVEMENTS WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE PROJECT SITE AND THE AFFECTED PORTIONS OF THE EXISTING PARK.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN NO INCREASE IN THE DEVELOPED RUNOFF VOLUME GENERATED BY THE SITE WITH NEW ROOF AREA RUNOFF BEING MITIGATED BY ONSITE WATER HAREVESTING DESIGNED TO CAPTURE AND TREAT THE FIRST FLUSH FROM THE NEW BUILDING.
- STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES ARE NOT PROPOSED DURING CONSTRUCTION BECAUSE ROUTINE MAINTENANCE BY PARK STAFF WILL ENSURE THE CLEAN-UP AND REMOVAL ANY SEDIMENT THAT MAY DISCHARGE FROM THE CONSTRUCTION SITE TO DOWNSTREAM PORTIONS OF THE PARK.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS
- THIS PROJECT IS NOT SUBJECT TO AN EPA NPDES PERMIT; FUTURE PROJECTS MAY TRIGGER THE NEED FOR THE PREPARATION OF A SWPPP AND THE SUBSEQUENT FILING OF AN NPDES PERMIT.

CALCULATIONS

I. SITE CHARACTERISTICS

| | |
|---------------------------------------|---------------------|
| A. PRECIPITATION ZONE = | 2 |
| B. $P_{100, 6\text{ HR}} = P_{360} =$ | 2.35 |
| C. TOTAL PROJECT AREA (A_T) = | 5,250 SF 0.12 AC |

D. LAND TREATMENTS

1. EXISTING CONDITION

| TREATMENT | AREA (SF/AC) | % |
|-----------|--------------|----|
| A | 0 / 0 | 0 |
| B | 1,220 / 0.03 | 25 |
| C | 0 / 0 | 0 |
| D | 4,030 / 0.09 | 75 |

2. DEVELOPED CONDITION

| TREATMENT | AREA (SF/AC) | % |
|-----------|--------------|----|
| A | 0 / 0 | 0 |
| B | 1,170 / 0.03 | 25 |
| C | 0 / 0 | 0 |
| D | 4,080 / 0.09 | 75 |

II. HYDROLOGY

A. EXISTING CONDITION

| | |
|--|-----------------------|
| 1. VOLUME | |
| $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ | |
| $E_W = (0.53 * 0.00) + (0.78 * 0.03) + (1.13 * 0.00) + (2.12 * 0.09) / 0.12 =$ | 1.79 IN |
| $V_{100, 6\text{ HR}} = (E_W / 12) A_T = (1.79 / 12) 0.12 =$ | 0.0179 AC-FT = 780 CF |

| | |
|---|---------|
| 2. PEAK DISCHARGE | |
| $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$ | |
| $Q_p = Q_{100} = (1.56 * 0.00) + (2.28 * 0.03) + (3.14 * 0.00) + (4.70 * 0.09) =$ | 0.5 CFS |

B. DEVELOPED CONDITION

| | |
|--|-----------------------|
| 1. VOLUME | |
| $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ | |
| $E_W = (0.53 * 0.00) + (0.78 * 0.03) + (1.13 * 0.00) + (2.12 * 0.09) / 0.12 =$ | 1.79 IN |
| $V_{100, 6\text{ HR}} = (E_W / 12) A_T = (1.79 / 12) 0.12 =$ | 0.0179 AC-FT = 780 CF |

| | |
|---|---------|
| 2. PEAK DISCHARGE | |
| $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$ | |
| $Q_p = Q_{100} = (1.56 * 0.00) + (2.28 * 0.03) + (3.14 * 0.00) + (4.70 * 0.09) =$ | 0.5 CFS |

| | |
|--|-----------------------|
| c. FIRST FLUSH (90TH PERCENTILE STORM EVENT) | |
| $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ | |
| $E_W = (0.00 * 0.00) + (0.00 * 0.03) + (0.09 * 0.00) + (0.34 * 0.09) / 0.12 =$ | 0.26 IN |
| $V_{\text{FIRST FLUSH}} = (E_W / 12) A_T = (0.26 / 12) 0.12 =$ | 0.0026 AC-FT = 110 CF |

| | |
|--|-----|
| d. WATER HARVESTING AREA CAPACITY (WSL @ 5014.4) | |
| ELEV AREA VOLUME ΣVOLUME | |
| 5014 270 160 | 160 |
| 5014.4 530 | |

$V_{WH} = 160\text{ CF} > V_{\text{FIRST FLUSH}} = 110\text{ CF} \therefore \text{OK}$

C. COMPARISON

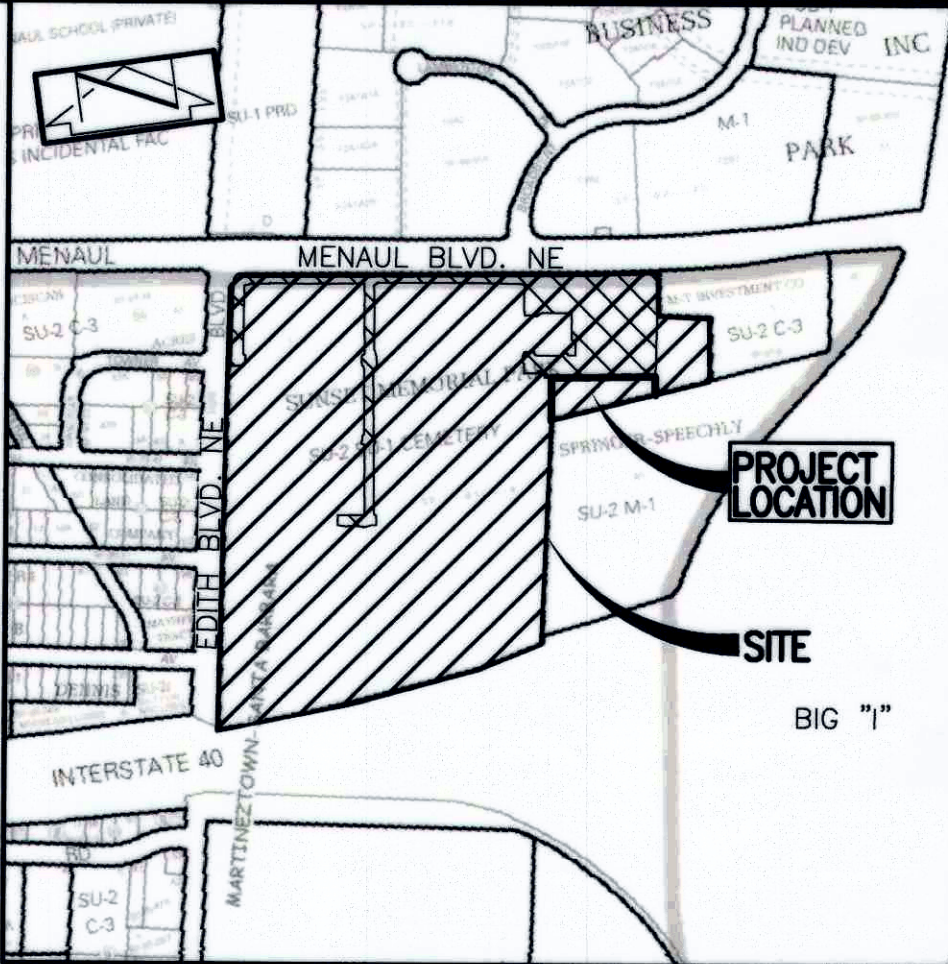
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|---|---|-----|-------------|
| 1. VOLUME | | | |
| $\Delta V_{100, 6\text{ HR}} = 780 - 780 =$ | 0 | CF | (NO CHANGE) |
| 2. PEAK DISCHARGE | | | |
| $\Delta Q_{100} = 0.5 - 0.5 =$ | 0 | CFS | (NO CHANGE) |

NOTE:

ABOVE CALCULATIONS DO NOT TAKE CREDIT FOR WATER HARVESTING.

LEGEND

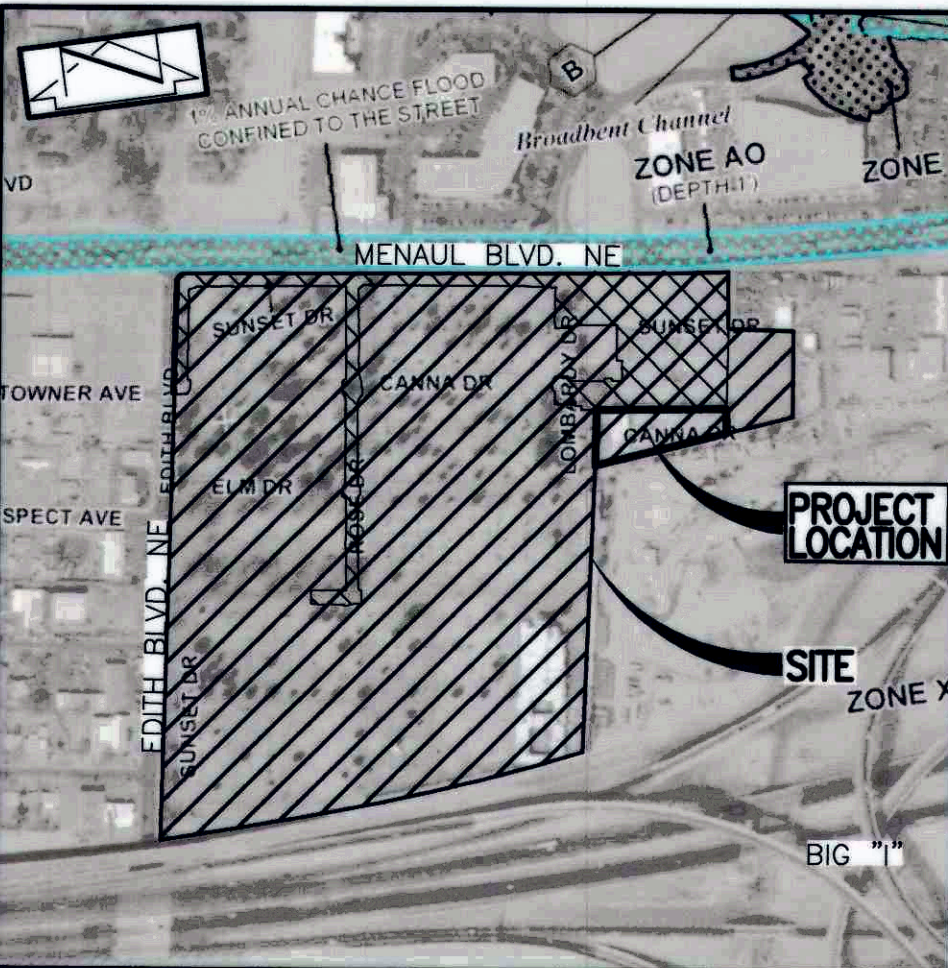
| | |
|--------|-----------------------------------|
| AP | ASPHALT PAVEMENT |
| ASG | ASPHALT |
| BOH | BUILDING/ROOF OVERHANG |
| C&G | CURB AND GUTTER |
| C/P/M | COMMUNICATION LINE BY PAINT MARK |
| CAL | UNDERGROUND COMPRESSED AIR LINE |
| CB | CONCRETE BENCH |
| CCND | COMMUNICATION CONDUIT |
| CHC | CONCRETE HEADER CURB |
| CLO | CENTERLINE DOOR |
| CLDD | CENTERLINE DOUBLE DOOR |
| CLF | CHAIN LINK FENCE |
| CMU | CONCRETE MASONRY WALL |
| CND | ELECTRIC CONDUIT |
| CO | CLEANOUT |
| CONC | CONCRETE |
| CR | COMMUNICATION RISER |
| CS | CONCRETE STEPS |
| CSW | CONCRETE SIDEWALK |
| CYP | CONCRETE CURB |
| DBL | DOUBLE |
| DCO | DOUBLE CLEANOUT |
| E/P/M | ELECTRIC LINE BY PAINT MARK |
| EA | EDGE OF ASPHALT |
| ECAB | ELECTRIC CABINET |
| EM | ELECTRIC METER |
| EO | ELECTRIC OUTLET |
| EP | ELECTRIC PANEL |
| FH | FIRE HYDRANT |
| FL | FLOWLINE |
| G/P/M | GAS LINE BY PAINT MARK |
| GA | GATE |
| GEN | GENERATOR |
| GM | GAS METER |
| GP | GATE POST FOR SLIDING GATE |
| GRV | GRAVEL |
| GS | GAS SERVICE |
| GTM | GATE MOTOR |
| GVB | GAS VALVE BOX (GAS ANODE) |
| GW | GUY WIRE ANCHOR |
| ICT | IRRIGATION CONTROL TIMER |
| IVB | IRRIGATION VALVE BOX |
| KEY | AUTOMATIC GATE KEY PAD |
| KSW | KEYSTONE BLOCK WALL |
| MEC | METAL BUILDING COLUMN |
| MT | METAL TABLE ON CONCRETE |
| OHE(2) | OVERHEAD ELECTRIC (# OF LINES) |
| PVC | POLYVINYL CHLORIDE PIPE |
| PVP | ASPHALT PAVING PATCH |
| ROLL | ROLL UP GARAGE DOOR |
| SAS/RW | CONCRETE BLOCK RETAINING WALL |
| SAS/PM | SANITARY SEWER LINE BY PAINT MARK |
| SGP | STEEL GUARD POST |
| SLIDE | SLIDING GARAGE DOOR |
| TCO | TOP OF CONCRETE |
| TW | TOP OF WALL |
| W/P/M | WATER LINE BY PAINT MARK |
| WCO | WATER VALVE IN CLEANOUT |
| WDF | WOOD FENCE |
| WF | WATER FAUCET |
| WH | WALL WEEP HOLE |
| WL | WATER LINE |
| WMB | WATER METER BOX |
| WMH | WATER MANHOLE WITH PUMP |
| WPP | WOOD POWER POLE |
| WPT | WOOD PICNIC TABLE |
| WRS | WATER SEPARATOR VAULT |
| WVB | WATER VALVE BOX |
| WW | WATER MANHOLE WITH FILTER TANK |
| 1.0' Ø | TREE TRUNK DIAMETER |
| | DECIDUOUS TREE |
| | SMALL DECIDUOUS TREE |
| | CONIFEROUS TREE |
| | YUCCA/CACTUS |
| | PAINTED UTILITY MARK |
| | INVERT |
| | TOP OF ASPHALT PAVEMENT |
| | TOP OF CURB |
| | TOP OF GRATE |
| | EXISTING SPOT ELEVATION |
| | PROPOSED SPOT ELEVATION |
| | EXISTING FLOWLINE |
| | PROPOSED FLOWLINE |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | EXISTING DIRECTION OF FLOW |
| | PROPOSED DIRECTION OF FLOW |
| | RIGHT OF WAY LINE |
| | PUBLIC EASEMENT LINE |
| | HIGH POINT / DIVIDE |
| | PROPOSED CONCRETE |
| | PROPOSED ASPHALT PAVING |



VICINITY MAP

SCALE: 1" = 750'

H-15



F.I.R.M.

SCALE: 1" = 500'

PANEL 332 OF 825

DATE 09-26-2008

LEGAL DESCRIPTION

TRACT 1, SUNSET MEMORIAL PARK, ALBUQUERQUE, NEW MEXICO

BENCHMARKS

PROJECT BENCHMARK

AN A.C.R.S. 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 11-H15" EPOXIED ON TOP OF CONCRETE CURB RETURN, AT THE ENE QUADRANT OF THE INTERSECTION OF MENAUL BOULEVARD AND BROADBENT PARKWAY N.E.
ELEVATION = 5015.50 FEET (NAVD 1988)

TEMPORARY BENCHMARK (T.B.M.)

A MAG NAIL WITH WASHER SET IN ASPHALT PAVEMENT, AS SHOWN ON SHEET 2.
ELEVATION = 5015.69 FEET (NAVD 1988)



HIGH MESA Consulting Group

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DRAINAGE PLAN AND CALCULATIONS

NEW CREMATORY

SUNSET MEMORIAL PARK

DESIGNED BY J.G.M.

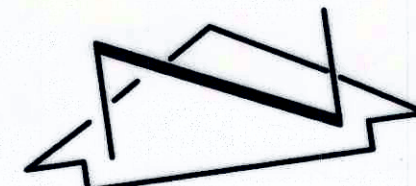
DRAWN BY J.Y.R./S.C.C.

APPROVED BY J.G.M.

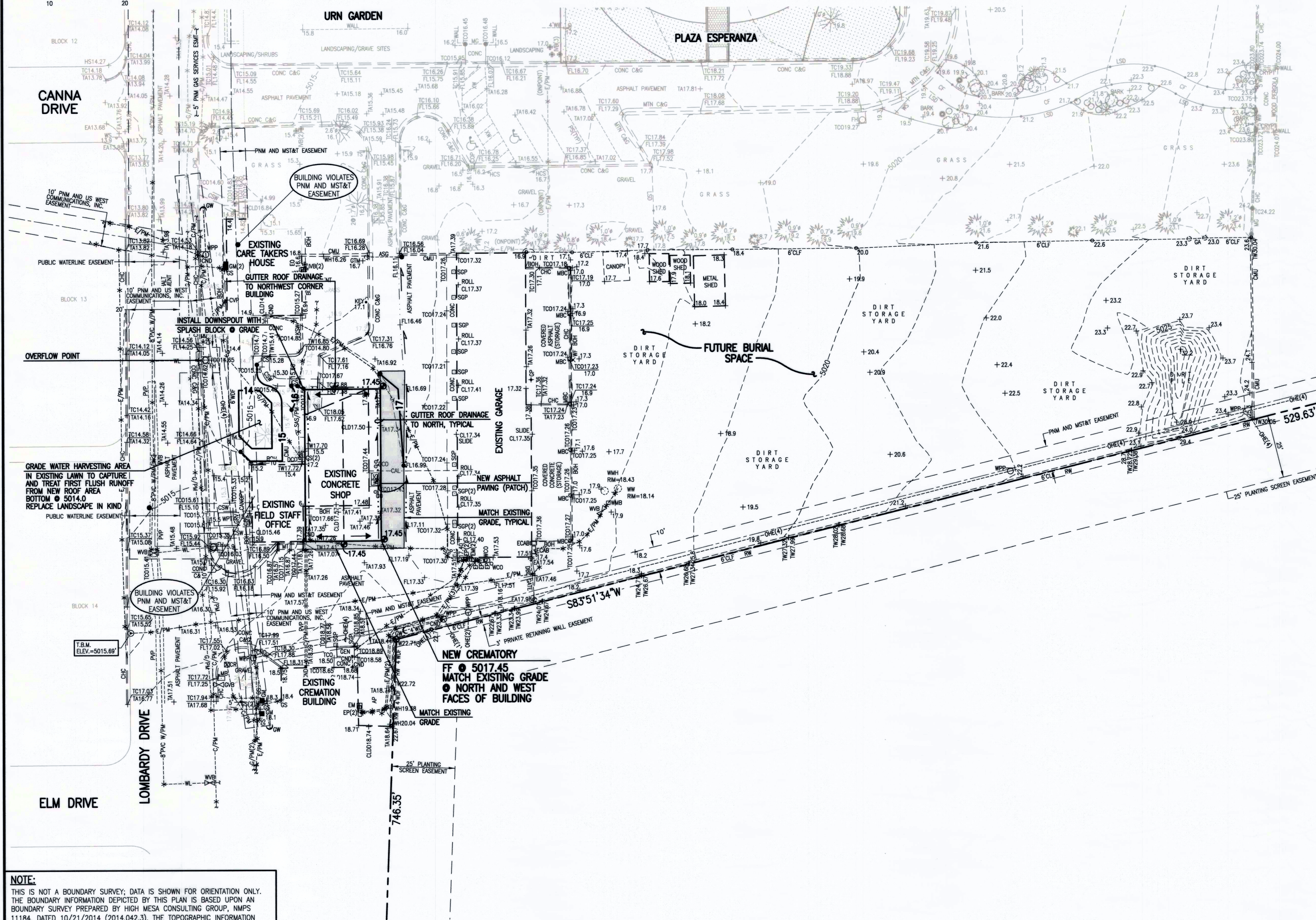
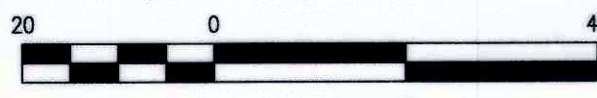
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SHEET NUMBER:

SHEET 1 OF 2



SCALE: 1" = 20'



NOTE:
THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON AN BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 10/21/2014 (2014.042.3). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 10/21/2014 (2014.042.2), AND EXPANDED BY SURVEY DATED 8-27-2015 (2015.036.1).

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**GRADING PLAN
NEW CREMATORY
SUNSET MEMORIAL PARK**

| DESIGNED BY | J.G.M. |
|-------------|---------------|
| DRAWN BY | J.Y.R./S.C.C. |
| APPROVED BY | J.G.M. |
| DATE | |
| BY | |
| REVISIONS | |



- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
 - ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
 - UTILITY INFORMATION SHOWN HEREON IS BASED UPON UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE AND LINE-SPOTTING PROVIDED BY HIGH MESA CONSULTING GROUP. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET#2015341931). UTILITY LINES SHOWN ON THIS DRAWING ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
 - THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
- EROSION CONTROL MEASURES:**
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
 - 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 WASHED DOWN THE STREET.
 - WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

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cemetery planning
resource alliance

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**CAMINO ENCANTADO, PLAZA ESPERANZA
AND PUEBLO @ SUNSET MEMORIAL PARK
ALBUQUERQUE, NEW MEXICO**

SCALE: 1"=20'
DRAWN BY: J.Y.R.
CHECKED BY: J.G.M.
PROJECT NO: 2014.079.6
DATE/ISSUE: 09-2015

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
| | | | |
| | | | |
| | | | |

SHEET NUMBER:
SHEET 2 OF 2

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

November 10, 2015

Jeff Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, New Mexico 87109

**RE: Sunset Memorial Park New Crematory
924 Menaul NE
Grading and Drainage Plan
Engineers Stamp Date 10/8/15 (H15D016)**

Dear Mr. Mortensen,

PO Box 1293

Based upon the information provided in your submittal received 10/8/15, this plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

NM 87103

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File