

CITY OF ALBUQUERQUE



November 4, 2015

Graeme Means, PE
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87112

**Re: Albuquerque Healthcare for the Homeless
1220 First Street NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 10-13-15 (J14D172)
Certification dated: 10-27-15**

Dear Mr. Means,

Based on the Certification received 10/29/2015, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Sincerely,

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

C: TE/RH
email



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Albuquerque Healthcare for the Homeless First Street Expansion **Building Permit #:** _____ **City Drainage #:** J-14/D172
DRB#: 1005251 **EPC#:** _____ **Work Order#:** _____
Legal Description: Tract A, Albuquerque Healthcare for the Homeless, Inc.
City Address: 1220 First Street NW

Engineering Firm: High Mesa Consulting Group **Contact:** Graeme Means #13676
Address: 6010-B Midway Park Blvd NE, Albuquerque NM 87109
Phone#: 505-345-4250 **Fax#:** 505-345-4254 **E-mail:** gmeans@highmesacg.com

Owner: Albuquerque Healthcare for the Homeless **Contact:** Architect
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: Wright & Hammer **Contact:** Denise Hammer
Address: 1735 Aliso Dirve NE
Phone#: 266-6764 **Fax#:** _____ **E-mail:** denise@wrightandhammer.com

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

☒ ENGINEER/ ARCHITECT CERTIFICATION

☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ OTHER (SPECIFY) _____

CHECK 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

☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

DATE SUBMITTED: 10/27/2015 **By:** J. Graeme Means

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

DRAINAGE PLAN:

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN A DEVELOPED COMMERCIAL AREA OF DOWNTOWN ALBUQUERQUE, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED IMPROVEMENTS CONSIST OF NEW BUILDING CONSTRUCTION ON A DEVELOPED PAD SITE WITHIN A FORMER FLOODPLAIN THAT WAS REMOVED BY LOWR-F IN ANTICIPATION OF THIS PROJECT. THE PROPOSED DRAINAGE CONCEPT IS TO DISCHARGE DEVELOPED RUNOFF AT A LIMITED RATE TO THE EXISTING PUBLIC STORM DRAINAGE FACILITIES WITHIN THE ADJACENT PUBLIC RIGHT OF WAY.

THIS SUBMITTAL IS MADE IN SUPPORT OF SO#19 AND BUILDING PERMIT APPROVALS.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED NORTH OF MOUNTAIN ROAD SW, ON THE EAST SIDE OF FIRST STREET NE, BETWEEN FIRST STREET AND THE BNSF RAILROAD RIGHT-OF-WAY. THE LEGAL DESCRIPTION OF THE SITE IS TRACT A, ALBUQUERQUE HEALTHCARE FOR THE HOMELESS, INC. PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, SHOWS THAT THE MAJORITY OF THE SITE LIES WITHIN A DESIGNATED FLOOD HAZARD ZONE (AO, DEPTH 1), HOWEVER, THE AFOREMENTIONED LOWR-F REMOVED A PORTION OF THE SITE FROM THE FLOODPLAIN THAT WAS ELEVATION WITH COMPACTED FILL.

III. BACKGROUND DOCUMENTS AND RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

A. ROUGH GRADING PLAN FOR ALBUQUERQUE HEALTHCARE FOR THE HOMELESS DATED 12/12/2012, COA HYDROLOGY FILE J-14/D172, PREPARED BY HMCQ, NMPE 13676. THIS PLAN WAS PREPARED FOR ROUGH GRADING PURPOSES AND INCLUDED A COMPACTED BUILDING PAD THAT WAS ELEVATED ABOVE THE DESIGNATED FLOOD HAZARD ELEVATION WITH THE INTENT OF SUPPORTING A SUBSEQUENT LOWR-FILL SUBMITTAL.

B. BOUNDARY AND TOPOGRAPHIC SURVEY, LOT A-1, BLOCK 20, PARIS ADDITION - ACHC DATED 5/21/2013, PREPARED BY HMCQ, NMPS 11184. THIS SURVEY WAS CONDUCTED FOLLOWING THE ROUGH GRADING AND PAD PREPARATION CONSTRUCTION. THIS SURVEY REPRESENTS THE EXISTING SITE CONDITIONS AND WAS USED TO SUPPORT THE ENGINEER'S CERTIFICATION AND LOWR-F SUBMITTAL.

C. REQUEST FOR LETTER OF MAP REVISION BASED ON FILL (LOWR-F) DATED 5/24/2013, PREPARED BY HMCQ, NMPE 13676. THIS REQUEST WAS APPROVED AND FEMA ISSUED A LETTER OF MAP REVISION, FEMA CASE NO 13-06-4306A DATED 10/8/2013. BASED ON THIS LOWR, THE BUILDING PAD AREA IS NO LONGER PART OF THE MAPPED FLOODPLAIN.

D. PLAT AND VACATION REQUEST, TRACT A, ALBUQUERQUE HEALTHCARE FOR THE HOMELESS, INC., RECORDED 3/21/2014 (2014C-0021), DRB PROJECT # 1005251, PREPARED BY HMCQ, NMPS 11184. THIS PLAT VACATED OBSOLETE UTILITY EASEMENTS AND GRANTED NEW EASEMENT FOR THE EXISTING GAS SERVICE. THE EXISTING BOUNDARY AND EASEMENT INFORMATION, AND NEW LEGAL DESCRIPTION, ARE TAKEN FROM THIS DOCUMENT.

IV. EXISTING CONDITIONS

THE SITE WAS ROUGH GRADED IN 2013 IN ANTICIPATION OF THIS DEVELOPMENT. THERE IS AN ELEVATED PAD AT THE WEST END OF THE SITE, AND THE REMAINING PORTION OF THE SITE IS RELATIVELY FLAT, WITH A MINIMAL SLOPE FROM SOUTHEAST TO NORTHWEST, WITH RUNOFF CURRENTLY AND HISTORICALLY DRAINING TO FIRST STREET NW. THE EASTERN END OF THE SITE STARTS TO SLOPE UP TO THE RAILROAD RIGHT-OF-WAY WHICH HAS A SMALL AREA THAT CONTRIBUTES MINOR OFFSITE FLOWS. THE SITES TO THE NORTH AND SOUTH EXHIBIT PARALLEL TOPOGRAPHY AND DO NOT CONTRIBUTE OFFSITE FLOWS. DESPITE THE FLOODPLAIN DESIGNATION, THERE IS NO APPARENT SIGNIFICANT SOURCE OF OFFSITE FLOWS OTHER THAN THE SMALL AREA BETWEEN THE LOT AND THE RAILROAD TRACKS, AND THE ADJACENT PUBLIC STREET WHICH IS COMPLETELY INUNDATED BY THE MAPPED FLOODPLAIN. THERE IS AN EXISTING PUBLIC STORM DRAIN IN FIRST STREET WITH STORM INLETS AT THE ENTRANCE TO THIS SITE. AS EVIDENCED BY THE MAPPED FLOODPLAIN, THE STORM DRAIN HAS LIMITED CAPACITY. THE SITE BENEFITS FROM AN ACCESS EASEMENT ALONG THE NORTH SIDE OF THE PROPERTY.

V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS TO THE SITE CONSIST OF A NEW BUILDING WITH ASSOCIATED PAVED PARKING AND LANDSCAPING IMPROVEMENTS. AS SHOWN ON THE GRADING PLAN, THE SITE HAS BEEN DIVIDED INTO THREE DRAINAGE BASINS FOR THE PURPOSE OF THIS ANALYSIS. BASIN 1 IS THE ROOF AREA. THE ROOF DRAINS WILL BE TIED TOGETHER AND PIPED TO THE PARKING LOT TO THE EAST. BID LOT #3 FOR THIS PROJECT IS FOR UNDERGROUND CISTERNS TO COLLECT THE ROOF RUNOFF. THE COMBINED CAPACITY OF THE CISTERNS IS 3400 GALLONS (453 CF). THE CISTERNS HAVE A DESIGNATED OVERFLOW PIPE THAT WILL CONNECT TO THE EXISTING STORM INLET IN FIRST STREET NW NEAR THE NORTHWEST CORNER OF THE SITE. THIS CONNECTION WILL BE MADE VIA SO#19 PERMIT. BID LOT #3 IS NOT PART OF THE BASE BID, AND CONSTRUCTION OF BID LOT #3 IS DEPENDENT UPON THE CONTRACTOR'S BID PRICE FOR THE BUILDING AND AVAILABLE FUNDING. IF BID LOT #3 IS NOT TAKEN, THEN THE RUNOFF WILL DRAIN TO THE SURFACE AND COMBINE WITH BASIN 3 WHICH IS THE PARKING LOT AREA. IN THIS CASE, THE SO#19 CONNECTION WILL NOT BE REQUIRED.

THE PARKING LOT WILL DRAIN FROM SOUTHEAST TO NORTHWEST, AND PARKING ISLANDS WILL HAVE CURB NOTCHES TO ALLOW "FIRST FLUSH" RUNOFF TO ENTER DEPRESSED LANDSCAPED AREAS WITH THE INTENT OF FURTHERING LOW IMPACT DEVELOPMENT GOALS. THE NORTHWEST CORNER OF THIS BASIN WILL HAVE A CONCRETE RUNDOWN 3' WIDE AND 8" TALL TO DETAIN RUNOFF TO MEET THE DISCHARGE REQUIREMENT OF 2.75 CFS PER ACRE ESTABLISHED FOR THIS REGION OF DOWNTOWN ALBUQUERQUE. THIS RUNDOWN WILL OUTLET TO THE PAVED ENTRY DRIVE AND FLOW IN THE GUTTER TO THE WEST TO THE EXISTING STORM INLET IN FIRST STREET. BASIN 2 IS THE REMAINING AREAS OF THE SITE THAT DO NOT HAVE FORMAL DRAINAGE COLLECTION IMPROVEMENTS. THIS AREA IS MOSTLY PERIMETER LANDSCAPING AND THE CONCRETE PAVEMENT ON THE STREET SIDE OF THE BUILDING.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS AS TAKEN FROM THE TOPOGRAPHIC SURVEY, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, AND 4) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

VII. CALCULATIONS

THE CALCULATIONS SUMMARIZED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR THE SITE. THE CALCULATIONS, PERFORMED USING AHYMO AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. THE AHYMO MODEL ALSO INCORPORATED A RESERVOIR ROUTING TO CALCULATE THE DETENTION POND RELEASE, AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEW PEAK RATE OF DISCHARGE OF 2.70 CFS PER ACRE WHICH IS LESS THAN THE 2.75 CFS ALLOWED.

VIII. CONCLUSIONS

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

1. THIS PROJECT REPRESENTS A MODIFICATION TO A DEVELOPED SITE IN AN INFILL AREA.
2. THIS SUBMITTAL IS MADE TO SUPPORT BUILDING AND SO#19 PERMITS
3. THIS SITE USED DETENTION TO LIMIT RUNOFF TO 2.75 CFS AS REQUIRED
4. ALTHOUGH STORAGE CAPACITY FOR A FIRST FLUSH EVENT IS NOT FULLY PROVIDED ON-SITE DUE TO PHYSICAL CONSTRAINTS, THIS SITE DOES DIRECT ALL ROOF AND PAVED PARKING AREAS TO PLANTERS OR CISTERNS FOR WATER QUALITY AND LOW IMPACT PURPOSES TO THE MAXIMUM EXTENT FEASIBLE FOR THE SITE.
5. AS REQUIRED FOR DEVELOPMENT WITHIN A FLOODPLAIN, A FLOODPLAIN DEVELOPMENT PERMIT FORM ACCOMPANIES THIS SUBMITTAL.
6. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR CONDITIONS.

NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE PLAT AND VACATION REQUEST FOR TRACT A, ALBUQUERQUE HEALTHCARE FOR THE HOMELESS, INC. PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 03-21-2014 (2014C-0021) THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 05/31/2013 (2012.059.4).

CALCULATIONS (ZONE 2)

EXISTING CONDITIONS	AREA		LAND TREATMENTS			
	SF	AC	A (%)	B(%)	C(%)	D(%)
BASIN 1	4,500	0.10	-	-	100	-
BASIN 2	6,344	0.15	-	-	100	-
BASIN3	11,330	0.26	-	-	100	-
TOTAL SITE	22,174	0.51	-	-	100	-

DEVELOPED CONDITIONS	AREA		LAND TREATMENTS			
	SF	AC	A (%)	B(%)	C(%)	D(%)
BASIN 1	4,500	0.10	-	-	-	100
BASIN 2	6,344	0.15	-	37	-	63
BASIN 3	11,330	0.26	-	14	-	86
TOTAL SITE	22,174	0.51	-	-	-	-

EXISTING CONDITIONS	100 YR 6 HOUR STORM		
	PEAK DISCHARGE	VOLUME (AC-FT)	VOLUME (CF)
BASIN 1	0.33	0.010	440
BASIN 2	0.47	0.014	610
BASIN 3	0.83	0.024	1,050
TOTAL SITE	1.63	0.048	2,090

DEVELOPED CONDITIONS	100 YR 6 HOUR STORM		
	PEAK DISCHARGE	VOLUME (AC-FT)	VOLUME (CF)
BASIN 1	0.49	0.018	780
BASIN 2	0.57	0.020	870
BASIN 3 (GROSS)	1.15	0.042	1,830
BASIN 3 (NET)*	0.32	0.042	1,830
TOTAL SITE (GROSS)	2.21	0.080	3,480
TOTAL SITE (NET)*	1.38	-	-

COMPARISON	100 YR 6 HOUR STORM		
	PEAK DISCHARGE	VOLUME (AC-FT)	VOLUME (CF)
BASIN 1	0.16	0.008	350
BASIN 2	0.10	0.006	260
BASIN 3 (GROSS)	0.32	0.018	780
BASIN 3 (NET)*	-0.51	0.018	780
TOTAL SITE (GROSS)	0.58	0.032	1,390
TOTAL SITE (NET)*	-0.25	-	-

THE NET DECREASE IN PEAK DISCHARGE ATTRIBUTABLE TO A DETENTION POND IN BASIN 3, AND RESULTS IN 2.70 CFS/ACRE

Detention Pond Volumes & Outflow

ELEV (FT)	Area (SF)	Area (AC)	V (CF)	V (AC-FT)	ΣV (CF)	Σ V (AC-FT)	3"x 8" WEIR OUTFLOW, Q(CFS)*
57.2	0	0	-	-	-	-	0.00
57.4	290	0.007	29	0.001	29	0.001	0.06
57.55	1,070	0.025	102	0.002	131	0.003	0.13
57.7	2,255	0.052	249	0.006	380	0.009	0.23
57.87	6,275	0.144	725	0.017	1105	0.025	0.36

**Q=CxLxH^{1.5}
C=2.6
L=25 FT
H=ELEV-57.2 FT

90th PERCENTILE EVENT

ARCH RUNOFF

	TREATMENT D AREA (SF)	RUNOFF (CF)
BASIN 1	4,500	130
BASIN 2	4,005	115
BASIN 3	9,790	280
TOTAL SITE	18,295	525

PLANTER CAPACITY IS 550 CF
 RUNOFF= TREATMENT D AREA(SF) X (.44 IN STORM-1 IN INITIAL ABSTRACTION)/12)

PLANTER CAPACITY IS 550 CF
RUNOFF=TREATMENT D AREA(SF) X (1/44 IN STORM-1 IN INITIAL ABSTRACTION) /12

(SEE CERT.)

BID LOT #3:
CONSTRUCT 6" INLET CONNECTION
PER COA STD-DWG-2237
IN 55.10
* NOTE: CITY INSPECTION REQUIRED,
SEE NOTES 7-10

108°41'28"E 110.87'

(SEE CERT.)

(SEE CERT.)

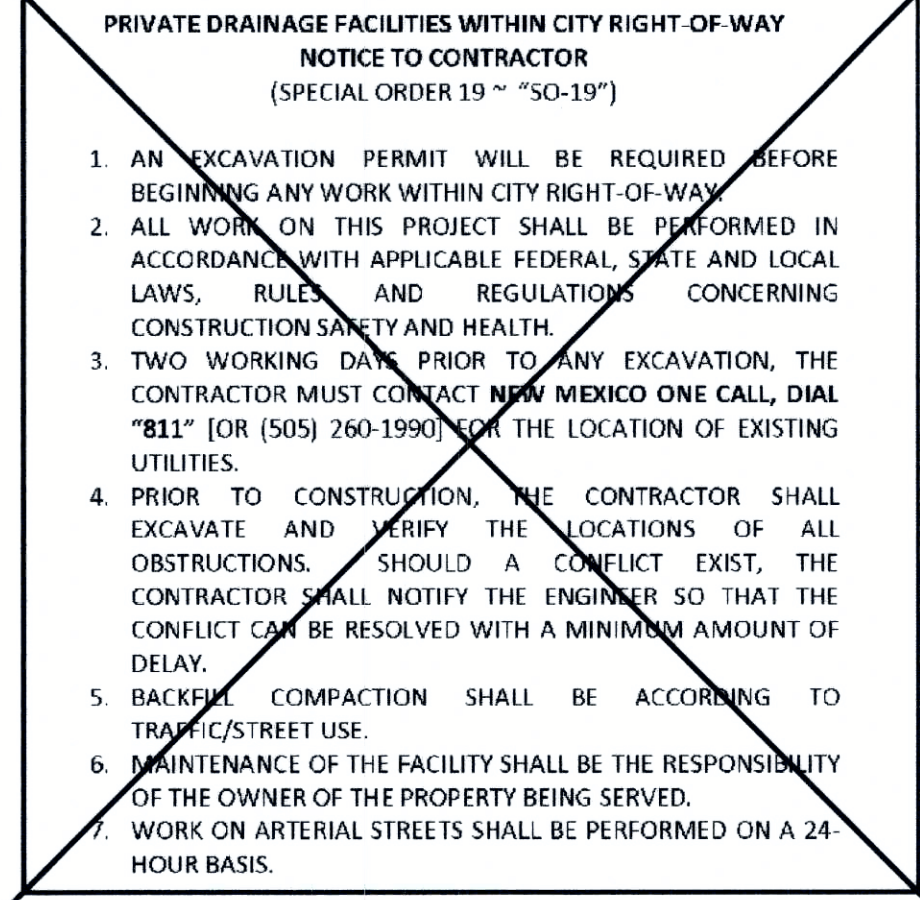
APPROVALS	NAME	DATE
HYDROLOGY		
SIDEWALK INSPECTOR		
STORM DRAIN MAINTENANCE		

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (811), FOR LOCATION OF EXISTING UTILITIES.
2. 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.
3. 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.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY 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.
6. 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:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
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 WAASHED DOWN THE STREET.
3. 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.



LEGAL DESCRIPTION:

TRACT A, ALBUQUERQUE HEALTHCARE FOR THE HOMELESS, INC. ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

PROJECT BENCHMARK:

AN AGRS 3 1/4" ALUMINUM DISK RIVETED TO AN ALUMINUM TUBE PROJECTING 0.25" ABOVE GROUND STAMPED "9-J15 1990", LOCATED NEAR THE NORTHWESTERN INTERSECTION OF LOMAS BOULEVARD AND LEGION ROAD N.E. ELEVATION = 5093.057 FEET (NAVD 1988)

TEMPORARY BENCHMARK #1 (T.B.M.):

A #5 REBAR W/CAP STAMPED "HMCQ CONTROL NMPS 11184" SET IN DIRT, AS SHOWN ON THIS SHEET. ELEVATION = 4957.39 FEET (NAVD 1988)

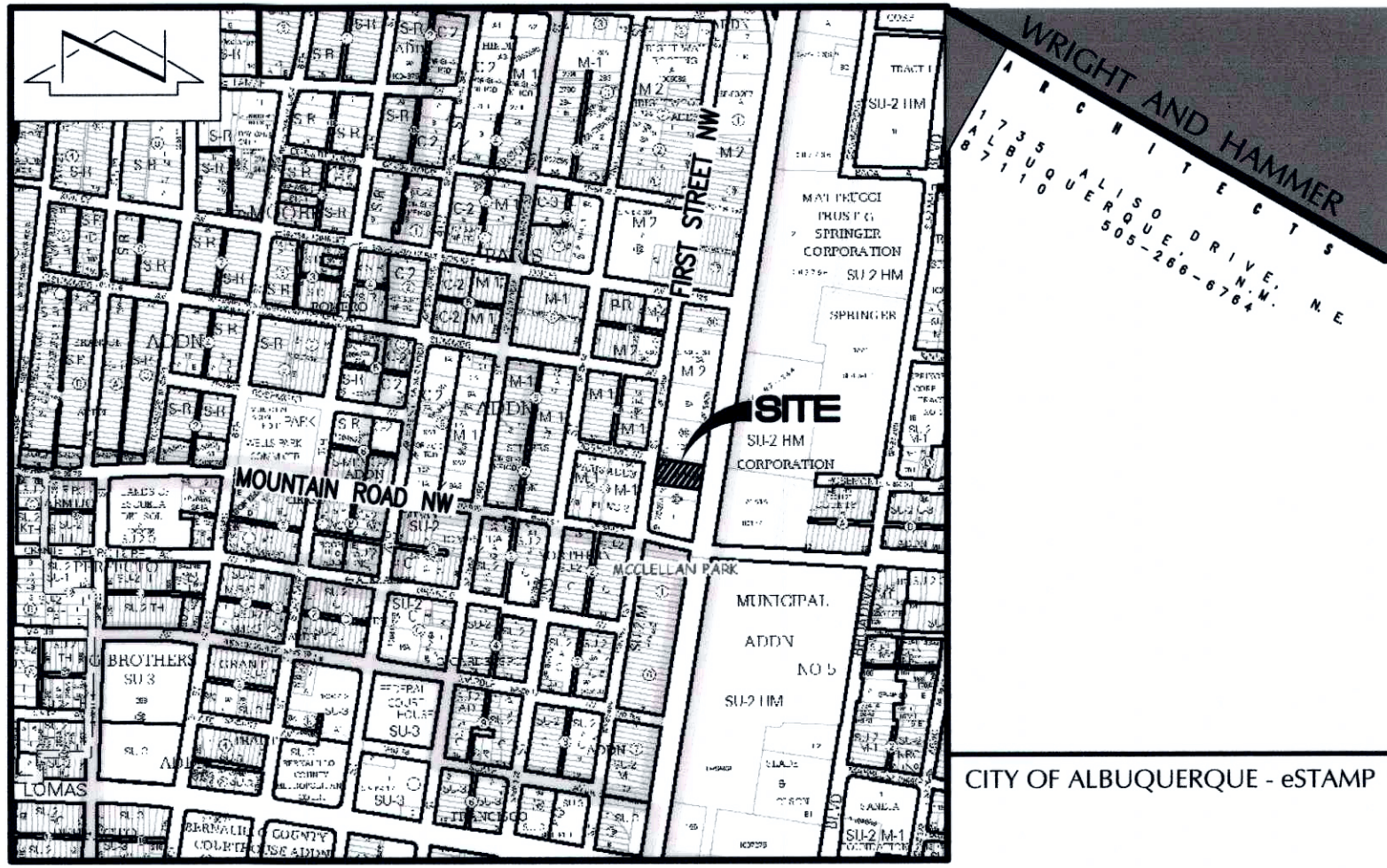
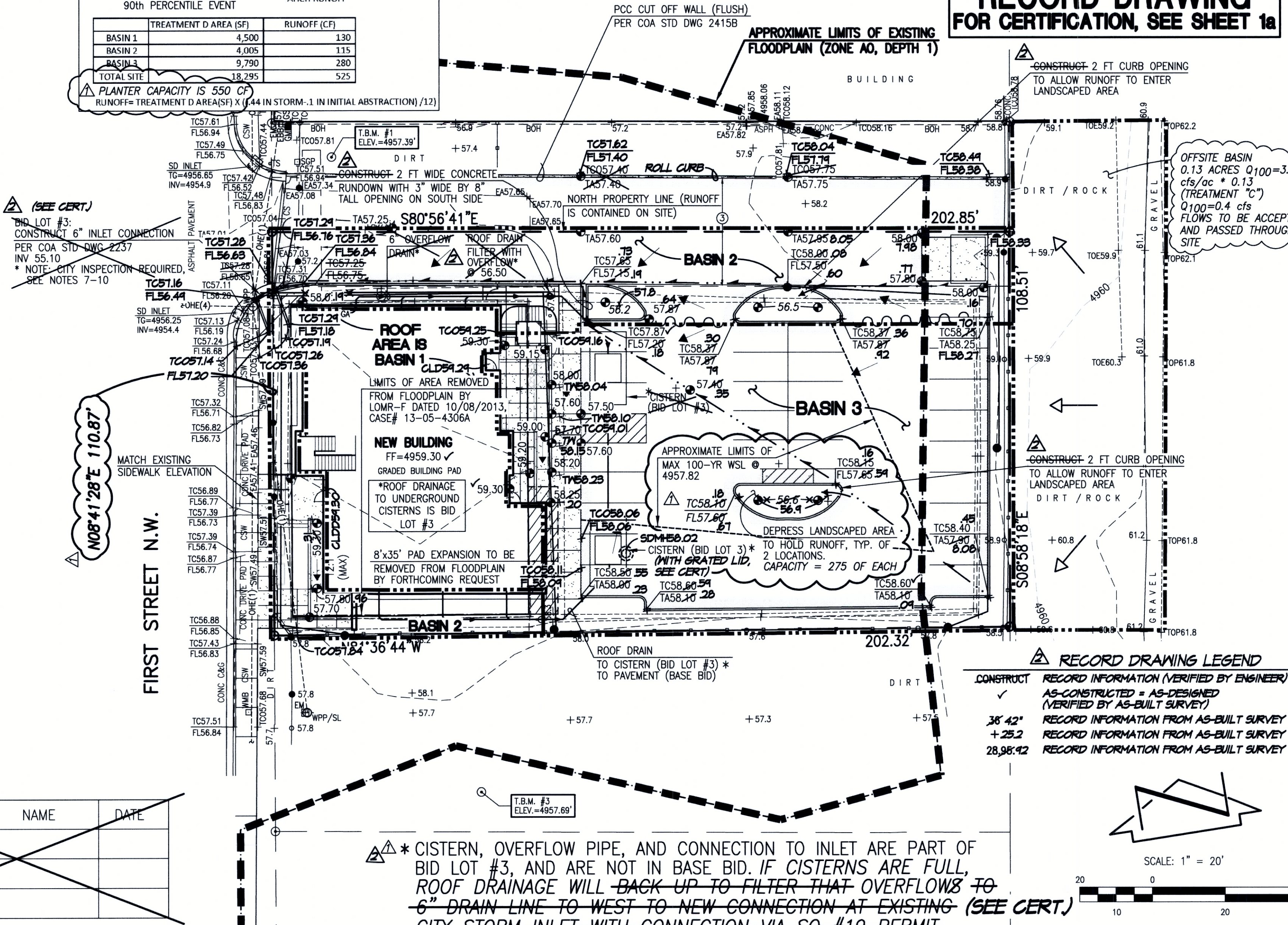
TEMPORARY BENCHMARK #3 (T.B.M.):

A #5 REBAR W/CAP STAMPED "HMCQ CONTROL NMPS 11184" SET IN DIRT, AS SHOWN ON THIS SHEET. ELEVATION = 4957.69 FEET (NAVD 1988)

EASEMENTS:

- 29 REMAINING PORTION OF 5' GAS LINE EASEMENT GRANTED BY PLAT 2007C-324.
- 30' PRIVATE ACCESS EASEMENT GRANTED BY PLAT 2007C-324.
- 7'x14' NEW MEXICO GAS COMPANY EASEMENT.

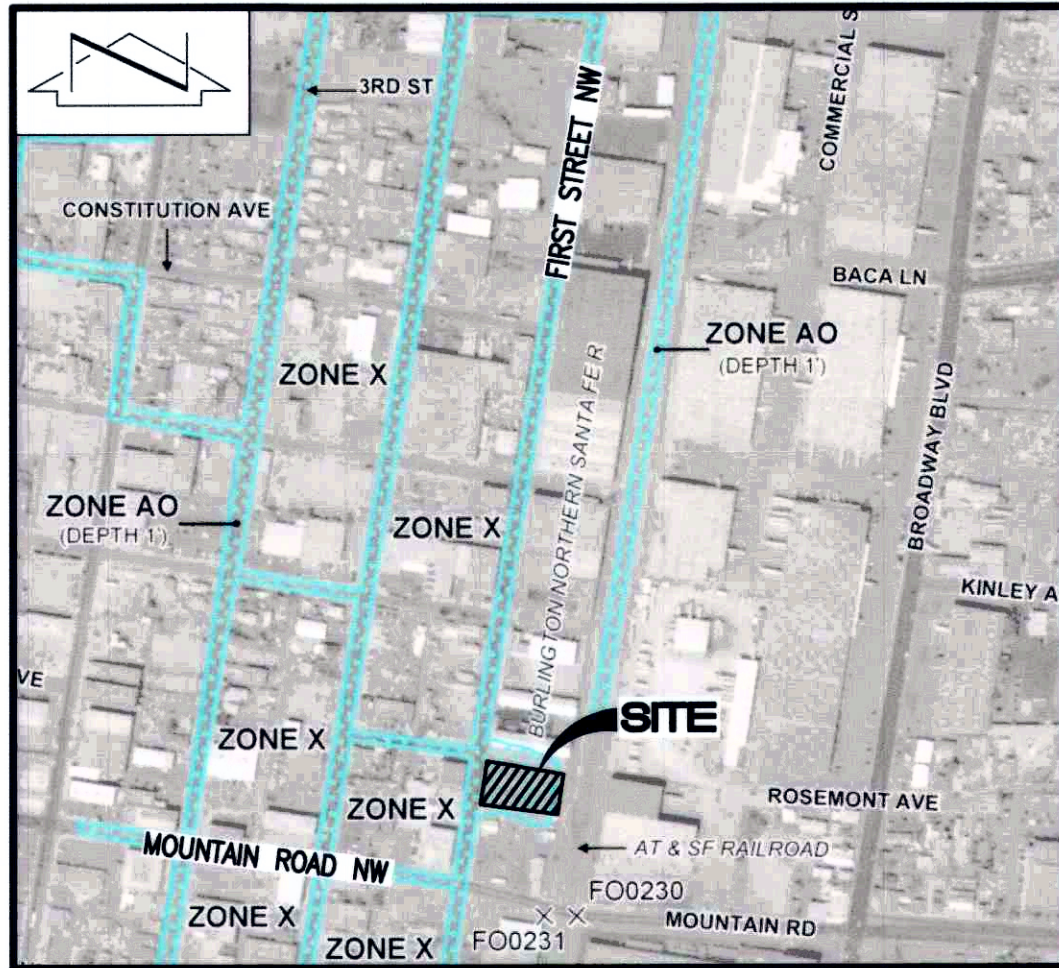
RECORD DRAWING FOR CERTIFICATION, SEE SHEET 1a



VICINITY MAP

SCALE: 1" = 750'

FEDERAL EMERGENCY MANAGEMENT AGENCY



F.I.R.M.

SCALE: 1" = 500'

PANEL 332 OF 825

DATED 9/26/2008

LEGEND

- | | |
|--------|-----------------------------------|
| ASPH | ASPHALT |
| BOH | BUILDING OVERHANG |
| C&G | CURB AND GUTTER |
| CLF | CHAIN LINK FENCE |
| CH/BW | CHAIN LINK FENCE WITH BARBED WIRE |
| CONC | CONCRETE |
| CS | CONCRETE STRIP |
| CSW | CONCRETE SIDEWALK |
| EA | EDGE OF ASPHALT |
| EBB | ELECTRIC BREAKER BOX |
| EM | ELECTRIC METER |
| FL | FLOWLINE |
| GM | GUY WIRE ANCHOR |
| GS | GAS METER |
| INV | GAS SERVICE |
| ONE(1) | INVERT |
| OE | OVERHEAD ELECTRIC (# OF LINES) |
| PB | CONCRETE PARKING BUMPER |
| SD | STORM DRAIN |
| SOP | STEEL GUARD POST |
| SW | CONCRETE SIDEWALK |
| TA | TOP OF ASPHALT |
| TC | TOP OF CURB |
| TCO | TOP OF CONCRETE |
| TG | TOP OF GRATE |
| TS | TRAFFIC SIGN |
| WMB | WATER METER BOX |
| WPP | WOOD POWER POLE |
| WPP/SL | WOOD POWER POLE WITH STREET LIGHT |

GRADING LEGEND

- | | |
|-------------------------|---------------------|
| BOUNDARY | EXISTING ELEVATION |
| PROPOSED SPOT ELEVATION | EXISTING FLOWLINE |
| PROPOSED FLOWLINE | EXISTING CONTOUR |
| PROPOSED CONTOUR | EXISTING FLOODPLAIN |
| PROPOSED DRAINAGE | PROPOSED DRAINAGE |
| PROPOSED CONCRETE | PROPOSED ASPHALT |
| PROPOSED ASPHALT | WATER BLOCK |

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2012.059.4

CONTACT INFORMATION:
DENISE HAMMER, PROJECT ARCHITECT
1735 ALISO DRIVE, NE
ALBUQUERQUE, NM 87110
505-260-6764
Denise@WrightandHammer.com



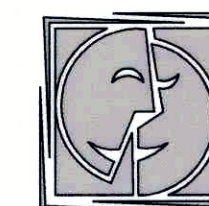
CIVIL ENGINEER:
HIGH MESA CONSULTING GROUP

LANDSCAPING:
BY ARCHITECT

STRUCTURAL ENGINEER:
JKK GROUP

MECHANICAL ENGINEER:
ARSED ENGINEERING

ELECTRICAL ENGINEER:
ALLIED ENGINEERING & DESIGN



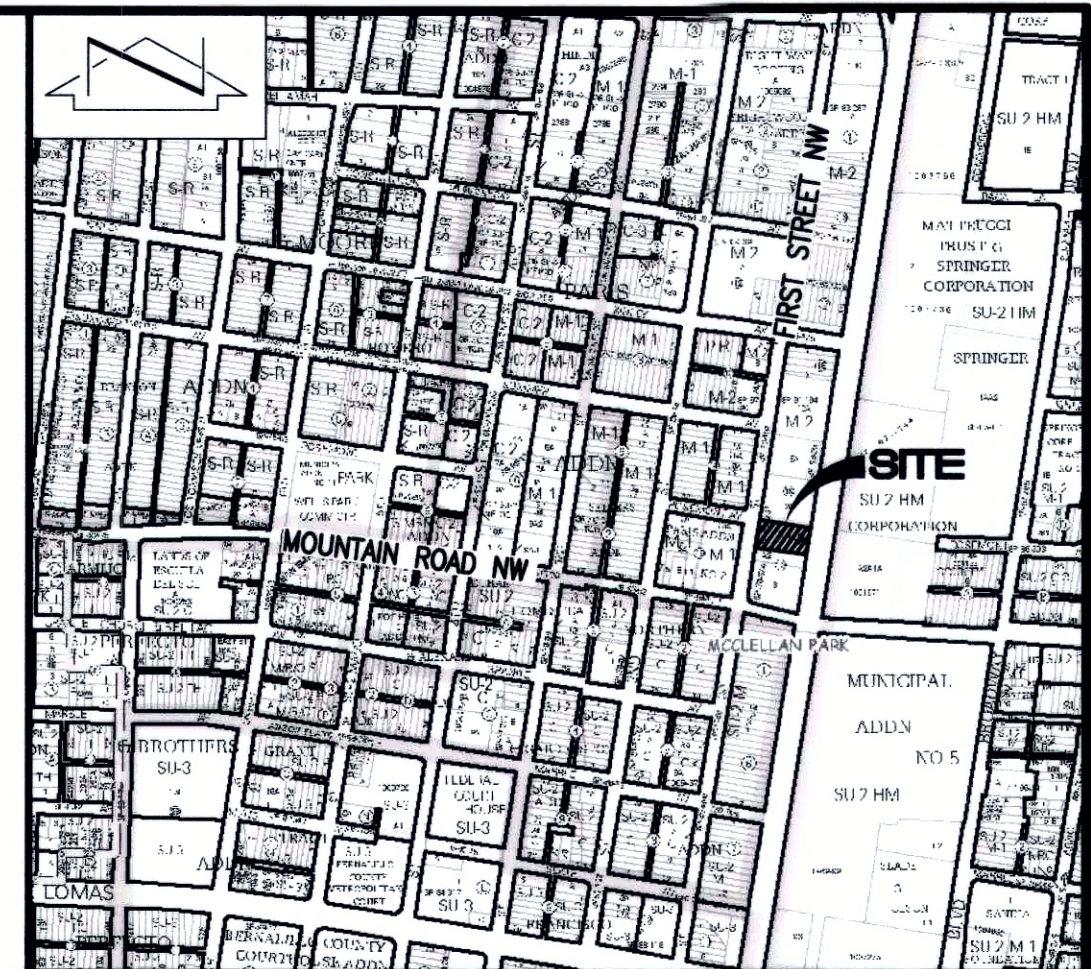
HEALTH CARE for the homeless
FIRST STREET EXPANSION
1220 FIRST STREET, NW
ALBUQUERQUE, NEW MEXICO

OWNER'S CONTACT:
CHUCK FRANK,
FACILITIES MANAGER
1217 FIRST STREET, NW
P.O. BOX 25445
ALBUQUERQUE, NM 87125
505-767-1182

10/15	ENGINEER'S CERT.
10/14	COA COMMENTS
09/26/2014	ISSUE DATE
MARK	DATE DESCRIPTION
ISSUE INFORMATION	
PROJECT NO.:	0303.001.40105
COPYRIGHT	WRIGHT & HAMMER ARCHITECTS 2014

GRADING PLAN

C-102



VICINITY MAP

SCALE: 1" = 750'

J-14

ENGINEER'S CERTIFICATION

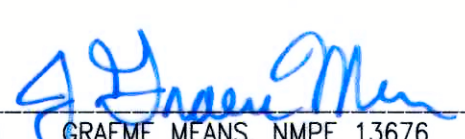

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP HEREBY CERTIFY THAT THE SITE HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING PLAN DATED 10/13/2014. THIS SUBMITTAL IS MADE TO SUPPORT PERMANENT CERTIFICATE OF OCCUPANCY.

THE FOLLOWING DEVIATION FROM THE APPROVED PLAN THAT DOES NOT PRECLUDE CERTIFICATION OF THE PLAN INTENT WAS NOTED AND IS DOCUMENTED HEREIN:

- 1) THE ROOF DRAINAGE CISTERN SYSTEM DOES NOT INCLUDE AN OVERFLOW PIPE CONNECTING TO THE EXISTING CITY STORM INLET. INSTEAD OF A PIPED OVERFLOW, THE CISTERN ACCESS COVER IN THE PARKING LOT HAS A VENTED LID TO ALLOW OVERFLOW TO DISCHARGE AS SURFACE RUNOFF IN THE PARKING LOT. BECAUSE THERE IS NO PIPED CONNECTION, THERE WAS NO SO#19 WORK ASSOCIATED WITH THIS PROJECT.

THE RECORD SURVEY INFORMATION EDITED ONTO THE APPROVED PLAN IS FROM A POST-CONSTRUCTION DRAINAGE VERIFICATION SURVEY CONDUCTED 10/16/2015 UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., PS 11184, ALSO OF THE FIRM HIGH MESA CONSULTING GROUP. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE AND DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED APPEARS TO BE REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THE RECORD INFORMATION PRESENTED HEREIN IS NOT NECESSARILY COMPLETE, AND DOES NOT ADDRESS COMPLIANCE WITH A.D.A. GUIDELINES, AND IS INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.


J. GRAEME MEANS, NMPE 13676

DATE 10/27/2015

HYDROLOGY FILE: J-14/D172
ADDRESS: 1220 FIRST STREET N.W.

HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

SUPPLEMENTAL SITE AND DRAINAGE INFORMATION
ALBUQUERQUE HEALTH CARE FOR THE HOMELESS, INC.

DESIGNED BY G.M.
DRAWN BY J.Y.R.
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

JOB NO.	2012.059.4
DATE	10-2015
SHEET	1a OF 2