

CITY OF ALBUQUERQUE



May 9th, 2018

J. Graeme Means
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87121

**Re: Good to Go: Broadway, 1401 Broadway Blvd
Request for Certificate of Occupancy
Transportation Development Final Inspection
Engineer's/Architect's Stamp dated 1-17-18 (L14-D022)
Certification dated 5-07-18**

Dear Mr. Means

Based upon the information provided in your submittal received 05-07-18, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy. This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

PO Box 1293

If you have any questions, please contact Ernie Gomez at (505) 924-3981.

Albuquerque

Sincerely,

NM 87103

Logan Patz
Senior Engineer, Planning Dept.
Development Review Services

www.cabq.gov

Ernie Gomez
Plan Checker, Planning Dept.
Development Review Services

EG via: email
C: CO Clerk, Filex

CONSTRUCTION NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1997, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
- 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 ON-SITE SURFACE EVIDENCE AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE-CALL SERVICE (TICKET NO. 16AG020710). 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. THE SURVEYOR 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 PROPERTY OWNER, DEVELOPER, OR 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 ANY EXCAVATION OR EXCAVATION WORK. THE PROPERTY OWNER, DEVELOPER, OR 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 & SEDIMENT CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES 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.
- SPOILS FROM THE PROJECT SHALL NOT BE DEPOSITED OR STORED IN THE STREET OR ROADWAY.
- SPOILS SHALL BE STAGED ON THE UPSTREAM SIDE OF TRENCHES WHEN TRENCHING IS REQUIRED.
- THE CONTRACTOR SHALL CLEAN AND REMOVE ALL FUGITIVE DUST, SOIL AND DEBRIS RESULTING FROM THIS PROJECT FROM THE STREET AT THE END OF EACH DAY.
- CONTRACTOR SHALL LEAVE THE AREA IMMEDIATELY BEHIND THE CURB DEPRESSED TO CONTAIN NUISANCE FLOWS AND SEDIMENT.
- CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASHING; THE WASHING OF CONCRETE TRUCKS SHALL NOT BE PERMITTED WITHIN THE PUBLIC RIGHT-OF-WAY.
- 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.
- UNLESS FINAL STABILIZATION IS OTHERWISE PROVIDED FOR, ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD, EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEED ACCORDING TO CITY OF ALBUQUERQUE SPECIFICATION 12 "MISCELLANEOUS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- PROTECT EXISTING STORM DRAIN FACILITIES FROM SEDIMENT AS REQUIRED.

GRADING KEYED NOTES

- CONSTRUCT CURB CUT PER TYPICAL DETAIL, SHEET C3.1
- DEPRESSED LANDSCAPING FOR WATER QUALITY RETENTION
- NEW PAVEMENT PER PAVING PLAN, SHEET C1.2
- CONSTRUCT TRENCH DRAIN PER TYPICAL DETAIL, SHEET C3.1. AT DOWNSTREAM END OF TRENCH DRAIN, INSTALL AND DAYLIGHT 6" STORM DRAIN INTO EXISTING WATER QUALITY AREA. REMOVE AND REPLACE CONCRETE CURB AND GUTTER AS REQUIRED FOR OUTLET INSTALLATION.

ENGINEER'S CERTIFICATION FOR PERMANENT C.O.
 I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP HEREBY CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED, GRADED AND WELL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE ORIGINAL APPROVED PLAN DATED 12-19-2016 AND THE REVISED PLAN DATED 01-17-2018. THE RECORD INFORMATION EDITED INTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED 05-02-2018 BY HIGH MESA CONSULTING GROUP UNDER THE DIRECTION OF JOSEPH M. SOLOMON, JR., NMPS 15075, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED TO SUPPORT A PERMANENT CERTIFICATE OF OCCUPANCY FOR THE ENTIRE SITE.

THE CERTIFICATION FOR TEMPORARY CERTIFICATE OF OCCUPANCY DATED 01-05-2018 IDENTIFIED TWO ITEMS REQUIRED FOR PERMANENT CERTIFICATE OF OCCUPANCY. THEY HAVE BEEN ADDRESSED AS FOLLOWS:
 1) THE FUELING AREA WAS REDESIGNED BY THE PLAN DATED 01-17-2018 AND IS NOW COMPLETE.
 2) THE NORTH-SOUTH FLOWLINE WEST OF THE SOUTHWEST BROADWAY ENTRANCE WAS FLOW TESTED 01-05-2018 AND FOUND TO MEET THE INTENT OF THE PLAN BY DIRECTING RUNOFF TO THE WATER QUALITY POND.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ANY COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD INFORMATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

J. Graeme Means
 REGISTERED PROFESSIONAL ENGINEER
 NEW MEXICO
 13676
 05-07-2018
 DATE

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY
 THIS PROJECT, LOCATED IN THE SOUTH BROADWAY AREA OF ALBUQUERQUE, REPRESENTS A MODIFICATION TO AN EXISTING BUILDING WITHIN AN EXISTING DEVELOPED SITE THAT CONTAINS AN EXISTING BUILDING, PAVEMENT, A GAS STALL CANOPY, CARWASH, AND LANDSCAPED AREAS. THE PROPOSED REDEVELOPMENT IS COMPRISED OF NEW BUILDING CONSTRUCTION, PAVING IMPROVEMENTS, LANDSCAPING, AND UTILITY IMPROVEMENTS. THE DRAINAGE PLAN FOR THIS PROJECT WILL CONTINUE TO FOLLOW EXISTING DRAINAGE PATTERNS INTO BROADWAY BLVD AND TRUMBULL AVE AND WILL REDUCE THE PEAK DISCHARGE RATE. THERE ARE NO OFF-SITE FLOWS THAT DRAIN INTO THE SITE.

II. PROJECT DESCRIPTION
 AS SHOWN BY THE VICINITY MAP ON SHEET C1.1, THE SITE LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF BROADWAY BLVD. SE AND TRUMBULL AVE. SE. THE CURRENT LEGAL DESCRIPTION IS PARCEL A, COMPRISING LOTS TWO(2) THRU SIX(6), INCLUSIVE AND THE SOUTHERLY 1/8 OF LOT ONE(1), BLOCK "K", EASTERN ADDITION, AS SHOWN BY PANEL 334 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

III. BACKGROUND DOCUMENTS
 THE FOLLOWING IS A LIST OF DOCUMENTS RELATED TO THE SITE AND SURROUNDING AREA. THE LIST MAY NOT BE ALL INCLUSIVE, HOWEVER REPRESENTS A SUMMARY OF THE RELEVANT PLANS AND DOCUMENTS WHICH ARE KNOWN TO THE ENGINEER AT THE TIME OF THE PLAN PREPARATION.

A. TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (HMC), DATED 08/19/2016(NMPS 15075). THE SURVEY DOCUMENTS THE EXISTING CONDITIONS FOR THE SITE.
 B. GRADING AND DRAINAGE PLAN FOR DIAMOND SHAMROCK GAS STATION, PREPARED BY LEE ENGINEERING, R.G. BEE NMPE, DATED 6/26/1987. THIS ESTABLISHED FREE DISCHARGE FROM THE DEVELOPED SITE TO BROADWAY BLVD SE AND TRUMBULL AVE SE AND A DISCHARGE RATE OF 3.69 CFS. THE PRECIPITATION DEPTH, RATIONAL METHOD COEFFICIENT, AND PEAK INTENSITY USED TO CALCULATE THIS PEAK DISCHARGE RATE ARE LOWER THAN THE STANDARD VALUES USED IN THE CURRENT DPM WHICH ACCOUNTS FOR THE DIFFERENCE IN DISCHARGE RATES BETWEEN OUR CALCULATED EXISTING RATE AND APPROVED DEVELOPED RATE SHOWN ON THIS PLAN.

I. EXISTING CONDITIONS
 THE EXISTING SITE CONSISTS OF A GAS STATION BUILDING, CANOPY, CAR LOCATED WITHIN AN INFILL AREA. THE SITE ALSO CONTAINS EXISTING CONCRETE PAVING, CURB AND GUTTER, LANDSCAPED, AND AN EXISTING RETAINING WALL ALONG THE WEST EDGE OF THE SITE. THE SITE IS DIVIDED BY A HIGH POINT THAT RUNS NORTHWEST TO SOUTHWEST THROUGH THE SITE. THE AREA SOUTH OF THE HIGH POINT DRAINS FROM NORTHEAST TO SOUTHWEST AND FREELY DISCHARGES INTO TRUMBULL AVE THROUGH THE EXISTING DRIVEPAD ENTRANCES LOCATED ON THIS SOUTH SIDE OF THE SITE. THE AREA NORTH OF THE HIGH POINT FROM SOUTHWEST TO NORTHEAST AND FREELY DISCHARGES INTO BROADWAY BLVD. THROUGH THE EXISTING DRIVEPAD ENTRANCES LOCATED ON THIS EAST SIDE OF THE SITE. THE EXISTING TOTAL DISCHARGE THAT LEAVES THE SITE IS 4.0 CFS. THERE ARE NO OFFSITE FLOWS INTO THE SITE.

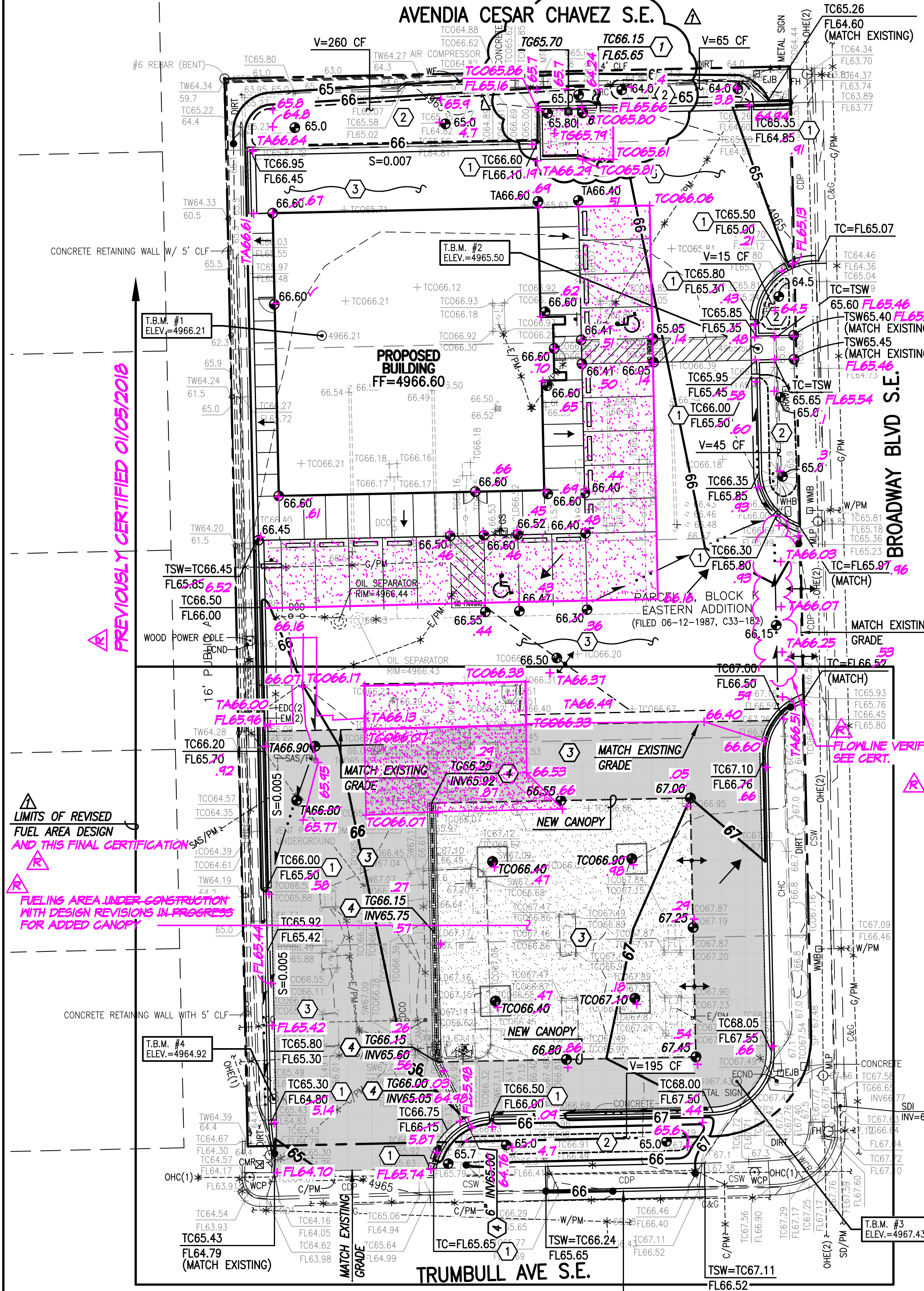
II. DEVELOPED CONDITIONS
 AS PART OF THE NEW DEVELOPMENT THE EXISTING GAS STATION BUILDING AND CARWASH WILL BE DEMOLISHED AND ONE OF THE EXISTING DRIVE PAD ENTRANCES ALONG TRUMBULL AVE. WILL BE REMOVED AND REPLACED WITH SIDEWALK AND CURB AND GUTTER. THE EXISTING CANOPY AND GAS STALLS WILL REMAIN. THE EXISTING RETAINING WALL AND CURB ALONG THE WEST EDGE OF THE SITE WILL ALSO REMAIN UNDISTURBED. THE NEW SITE WILL CONTAIN A NEW BUILDING, PAVEMENT, SIDEWALKS, AND DEPRESSED LANDSCAPED AREAS FOR WATER QUALITY RETENTION. THE DEVELOPED SITE WILL STILL FOLLOW THE EXISTING DRAINAGE PATTERN OF SPLITTING THE SITE RUNOFF AND FREELY DISCHARGING INTO TRUMBULL AVE AND BROADWAY BLVD BUT UNLIKE IN THE EXISTING CONDITION, A PORTION OF THE RUNOFF WILL BE DIRECTED TOWARDS DEPRESSED LANDSCAPED AREAS PRIOR TO LEAVING THE SITE. THE PROPOSED TOTAL DISCHARGE THAT LEAVES THE SITE WILL BE 3.9 CFS WHICH IS A 0.1 CFS REDUCTION TO THE EXISTING DISCHARGE. THIS RATE IS SLIGHTLY HIGHER THAN THE APPROVED DEVELOPED DISCHARGE OF 3.69 CFS BUT THIS DIFFERENCE IS ATTRIBUTABLE TO FACTORS DESCRIBED ABOVE IN THE BACKGROUND DOCUMENT SECTION. AS IN THE EXISTING CONDITION, THERE WILL CONTINUE TO BE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

THE PROPOSED LANDSCAPED WATER HARVESTING AREAS WITHIN AND AT THE PERIMETER OF THE DEVELOPED SITE WILL CAPTURE AND TREAT THE FIRST FLUSH RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS TO THE MAXIMUM EXTENT PRACTICABLE. FIRST FLUSH CALCULATIONS FOR THE DEVELOPED SITE SHOW THAT 940 CF OF WATER HARVESTING IS REQUIRED; AVERAGE END AREA METHOD CALCULATIONS FOR THE DEVELOPED SITE DEMONSTRATE THAT THE COMBINED ON-SITE WATER HARVESTING AREA CAPACITY IS 580 CF. DUE TO SITE TOPOGRAPHY LIMITATIONS AND THIS BEING A PARTIAL MODIFICATION TO AN EXISTING SITE, NO ADDITIONAL WATER QUALITY AREAS ARE AVAILABLE.

III. GRADING PLAN
 THE GRADING PLAN ON SHEET C1.1 SHOWS 1) THE EXISTING GRADES INDICATED BY THE CONTOURS AT 1 FOOT INTERVALS AND SPOT ELEVATIONS FROM THE TOPOGRAPHIC SURVEY REFERENCED ABOVE BY THIS OFFICE; 2) THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY; 3) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS; 4) PROPOSED GRADES INDICATED BY CONTOURS AT 1 FOOT INTERVALS AND SPOT ELEVATIONS; AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

III. 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 REVISIONS OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993 AND REVISED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS SHOWN BY THE CALCULATIONS, THERE WILL BE A DECREASE IN THE 100-YEAR PEAK DISCHARGE AND VOLUME RUNOFF ATTRIBUTABLE TO THIS PROJECT DUE TO THE ADDITION OF LANDSCAPED AREAS. THE DISCHARGE WILL BE FURTHER REDUCED DUE TO THE CONSTRUCTION OF WATER QUALITY PONDS.

IV. CONCLUSIONS
 THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED FROM THE EVALUATIONS CONTAINED HEREIN:
 1. THE PROPOSED IMPROVEMENTS REPRESENT MODIFICATIONS TO AN EXISTING DEVELOPED SITE.
 2. THE PROPOSED IMPROVEMENTS WILL NOT SIGNIFICANTLY ALTER THE EXISTING DRAINAGE PATTERNS ON SITE.
 3. THE PROPOSED IMPROVEMENTS WILL RESULT IN A DECREASE IN THE DEVELOPED RUNOFF GENERATED BY THE SITE.
 4. THE PROPOSED IMPROVEMENTS WILL RESULT IN A DECREASE IN THE DEVELOPED DISCHARGE RATE.
 5. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.



NOTE:
 THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE TOPOGRAPHIC AND UTILITY INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 15075, DATED 08/19/2016 (2016.039.1).

CALCULATIONS

I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE = 2
 B. P_{100, 6 HR} = P₅₀₀ = 2.4 IN
 C. TOTAL PROJECT AREA (A_T) = 37,855 SF
 = 0.87 AC

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B		
C	2,074 SF	5
D	0.05 AC	
	35,781 SF	95
	0.82 AC	

2. DEVELOPED LAND TREATMENT

TREATMENT	AREA (SF/AC)	%
A		
B		
C	4,534 SF	12
D	0.10 AC	
	33,321 SF	88
	0.76 AC	

II. HYDROLOGY

A. EXISTING CONDITION 100 YEAR

1. 100-YR STORM
 a. VOLUME 100-YR, 6- HR
 $E_w = (E_{A_1} + E_{B_1} + E_{C_1} + E_{D_1}) / A_T$
 $E_w = (0.53 \cdot 0.00) + (0.78 \cdot 0.00) + (1.13 \cdot 0.05) + (2.12 \cdot 0.82) / 0.87 = 2.07$ IN
 $V_{100, 6 HR} = (E_w / 12) \cdot A_T = (2.07 / 12) \cdot 37,855 = 6,530$ CF

b. PEAK DISCHARGE
 $Q_p = Q_{pA_1} + Q_{pB_1} + Q_{pC_1} + Q_{pD_1}$
 $Q_p = (1.56 \cdot 0.00) + (2.28 \cdot 0.00) + (3.14 \cdot 0.05) + (4.70 \cdot 0.82) = 4.0$ CFS

B. DEVELOPED CONDITION

1. 100-YR STORM
 a. VOLUME
 $E_w = (E_{A_2} + E_{B_2} + E_{C_2} + E_{D_2}) / A_T$
 $E_w = (0.53 \cdot 0.00) + (0.78 \cdot 0.00) + (1.13 \cdot 0.10) + (2.12 \cdot 0.76) / 0.87 = 2.00$ IN
 $V_{100, 6 HR} = (E_w / 12) \cdot A_T = (2.00 / 12) \cdot 37,855 = 6,310$ CF

b. PEAK DISCHARGE
 $Q_p = Q_{pA_2} + Q_{pB_2} + Q_{pC_2} + Q_{pD_2}$
 $Q_p = (1.56 \cdot 0.00) + (2.28 \cdot 0.00) + (3.14 \cdot 0.10) + (4.70 \cdot 0.76) = 3.9$ CFS

C. COMPARISON 100 YEAR

1. 100-YR STORM
 a. VOLUME 100-YR, 6-HR
 $\Delta V_{100, 6 HR} = 6310 - 6530 = -220$ CF (DECREASE) *
 b. PEAK DISCHARGE
 $\Delta Q_{100} = 3.9 - 4.0 = -0.1$ CFS (DECREASE) *

* DOES NOT INCLUDE PONDING WHICH IS A GREATER REDUCTION.

D. FIRST FLUSH CALCULATIONS

1. RETENTION REQUIREMENT
 a. VOLUME
 $V_{RQ} = (P_{100} - I_{AC}) / 12 \cdot A_D$
 $V_{RQ} = ((0.44 - 0.10) / 12) \cdot (33320.70) = 940$ CF

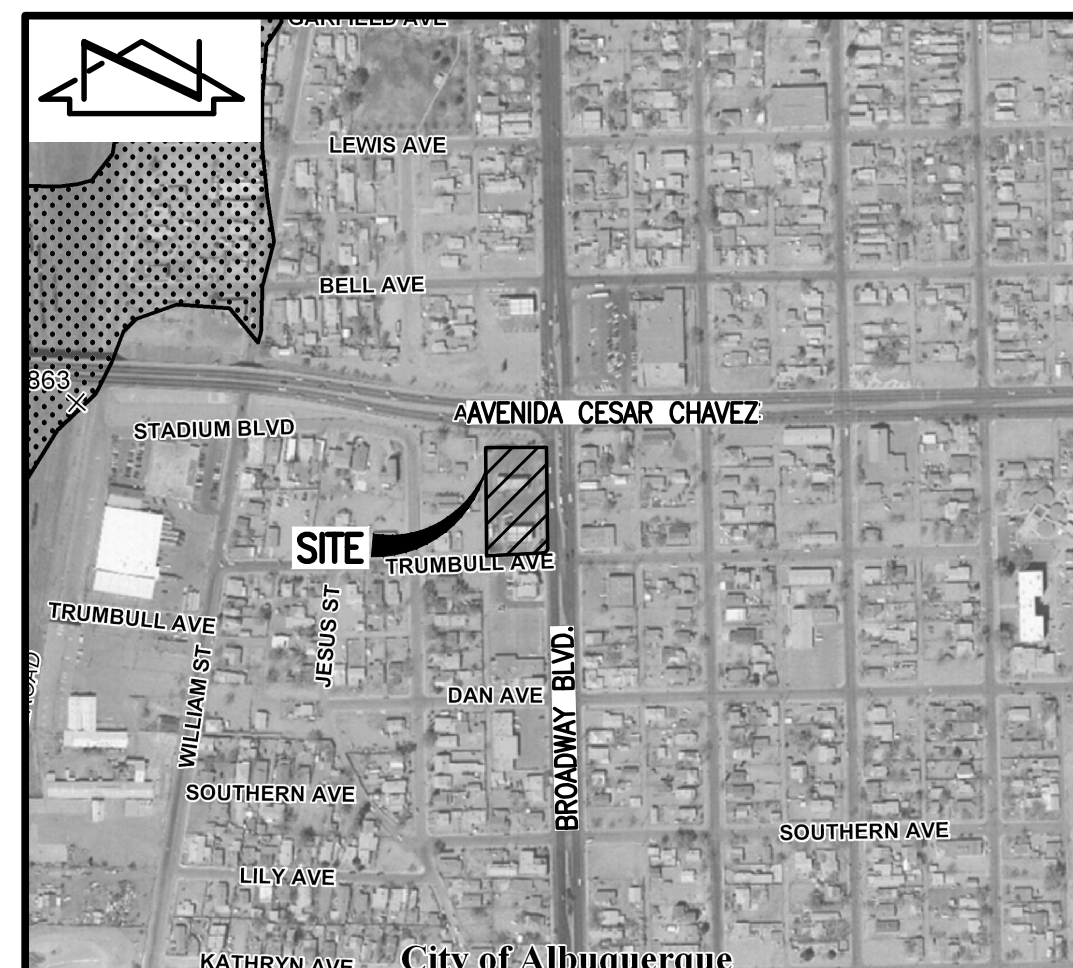
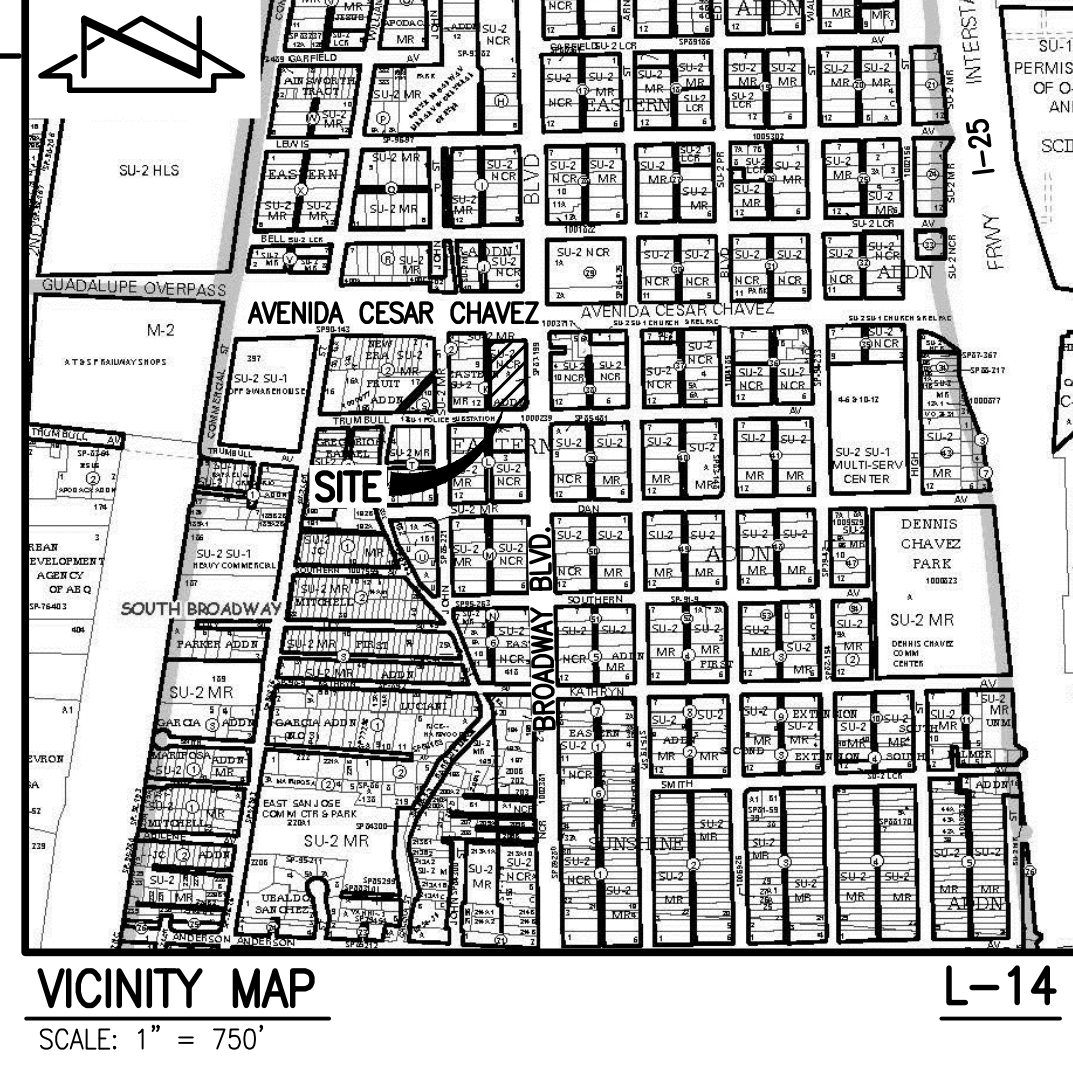
2. WATER QUALITY PONDING PROVIDED ON-SITE (BASED ON AVERAGE END AREA METHOD)
 $V_{CAP} = 260 + 15 + 45 + 195 + 65 = 580$ CF

RECORD DRAWING LEGEND

CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED + AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36' 42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
● 28.95' 42"	RECORD INFORMATION FROM AS-BUILT SURVEY

LEGEND

C&G	CURB AND GUTTER	RD	ROOF DRAIN	INV	INVERT
C/PM	COMMUNICATION BY PAINT MARK	RR	RIVER ROCK	TA	TOP OF ASPHALT PAVEMENT
CAM	CAMERA	SAS	SANITARY SEWER	TC	TOP OF CURB
CHC	CONCRETE HEADER CURB	SI	STORM DRAIN INLET	TC	TOP OF CRATE
CLD	CENTELINE OF DOOR	TC	TOP OF CURB	+ 67.25	EXISTING SPOT ELEVATION
CLF	CHANLINK FENCE	TCO	TOP OF CONCRETE	67.10	PROPOSED SPOT ELEVATION
CO	SEWER CLEANOUT	TD	TOP OF CONCRETE	---	EXISTING FLOWLINE
CONC	CONCRETE	TD	TOP OF CONCRETE	---	PROPOSED FLOWLINE
CMR	COMMUNICATIONS RISER	TD	TOP OF CONCRETE	---	EXISTING FLOWLINE
CSW	CONCRETE SIDEWALK	TD	TOP OF CONCRETE	---	PROPOSED FLOWLINE
DCO	DOUBLE SEWER CLEANOUT	WCP	WOOD COMMUNICATIONS POLE	---	EXISTING CONTOUR
E/PM	ELECTRIC BY PAINT MARK	WCR	WHEELCHAIR RAMP	---	PROPOSED CONTOUR
END	ELECTRIC CONDUIT	WB	WATERLINE HOTBOX	---	EXISTING DIRECTION OF FLOW
EDC	ELECTRIC DISCONNECT SWITCH	WMB	WATER METER BOX	---	PROPOSED DIRECTION OF FLOW
EJB	ELECTRIC JUNCTION BOX	W/P	WATERLINE BY PAINT MARK	---	WATER VALVE BOX
EM	ELECTRIC METER	W/B	WATERLINE BY PAINT MARK	---	WATER VALVE BOX
FM	FIRE HYDRANT	*	PAINTED UTILITY MARKER	---	PROPOSED CONTOUR
FL	FLOWLINE	1.2"	DIAMETER OF TREE	---	EXISTING DIRECTION OF FLOW
FP	FUEL PUMP	⊕	UNDERGROUND FUEL TANK LID	---	PROPOSED CONTOUR
G/PM	GAS BY PAINT MARK			---	PROPOSED ASPHALT PAVING
GM	GAS METER			---	
GP	STEEL GUARD POST			---	
GRV	GRAVEL			---	
IB	GAS SERVICE IRRIGATION VALVE BOX			---	
MBC	10"x10" METAL BUILDING COLUMN			---	
MC	METAL COLUMN			---	
MPC	METAL LIGHT POLE			---	
MLP	METAL LIGHT POLE			---	
MTC	METAL TRASH CAN			---	
OHC(1)	OVERHEAD COMMUNICATION (# OF LINES)			---	
OHC(2)	OVERHEAD ELECTRIC (# OF LINES)			---	



F.I.R.M. PANEL 334 OF 825
 SCALE: 1" = 500'
 DATED 9/26/2008

- PROJECT BENCHMARK**
 AGRS 3 1/4" ALUMINUM DISC STAMPED "12-L14 1987", SET FLUSH WITH TOP OF THE WEST CURB, APPROXIMATELY 70 FEET NORTH OF THE INTERSECTION OF THIRD STREET SW. AND SECOND STREET SW.
 NORTHING: 1,480,971.075 (GRID)
 EASTING: 1,520,049.232 (GRID)
 ELEVATION = 4947.708 FEET (NAVD 1988)
 1/CF = 1.000316270
- TEMPORARY BENCHMARK #1 (T.B.M.)**
 A CHISELED "+" SCRIBED IN CONCRETE NEAR THE NORTHWEST CORNER OF THE CARWASH, AS SHOWN ON THIS SHEET.
 ELEVATION = 4966.21 FEET (NAVD 1988)
- TEMPORARY BENCHMARK #2 (T.B.M.)**
 A CHISELED "+" SCRIBED IN CONCRETE NEAR THE NORTHEAST CORNER OF THE CARWASH, AS SHOWN ON THIS SHEET.
 ELEVATION = 4965.50 FEET (NAVD 1988)
- TEMPORARY BENCHMARK #3 (T.B.M.)**
 A MAG NAIL SET IN CONCRETE JOINT AT THE SOUTHEAST CORNER OF THE SITE, AS SHOWN ON THIS SHEET.
 ELEVATION = 4967.43 FEET (NAVD 1988)
- TEMPORARY BENCHMARK #4 (T.B.M.)**
 A CHISELED "+" SCRIBED IN CONCRETE AT THE SOUTHWEST CORNER OF THE SITE, AS SHOWN ON THIS SHEET.
 ELEVATION = 4964.92 FEET (NAVD 1988)

J. Graeme Means
 REGISTERED PROFESSIONAL ENGINEER
 NEW MEXICO
 13676
 05-07-2018

now architects p.a.
 ARCHITECTURE / PLANNING / INTERIORS
 SCOTT NIELSON, AIA, KEVIN BOBILLY, AIA, JAMES H. WYATT, AIA
 900 JOHN ADAMS PARKWAY P.O. BOX 2212 - IDAHO FALLS, IDAHO 83403-2212
 (P) 208-522-8779 (F) 208-522-8765 (W) nbwarchitects.com

PROJECT: NEW BUILDING FOR:
GOOD 2 GO CONVENIENCE STORE
 ALBUQUERQUE NO.309
 ALBUQUERQUE, NEW MEXICO

SHEET: PROPOSED GRADING PLAN
 TITLE: C1.1

REVISIONS

1	REVISED FUELING AREA
---	----------------------

PROJECT 160.31
DATE: DECEMBER 2016
DRAWN BY: J.Y.R.
CHECKED BY: R.J.C.
DRAWING NO.: 2016.042.1

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

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) _____

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: _____ By: _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____