CITY OF ALBUQUERQUE



March 9, 2018

J. Graeme Means, P.E. High Mesa Consulting Group 6010 B Midway Park Blvd NE Albuquerque, NM 87109

RE: Hotel Albuquerque NW Parking Lot 2000 Bellamah Ave NW Grading Plan Engineer's Stamp Date: 3/7/18 Hydrology File: J13D066

Dear Mr. Means:

PO Box 1293

Based on the information provided in your submittal received on 3/7/18, this plan cannot be approved for Grading or Paving Permit until the following are corrected:

Albuquerque

1. Each pond needs to be sized for the impervious area draining to it. Many of the ponds are undersized for the impervious area draining to them and one pond is oversized, but receives very little runoff (Area1 Pond). Can more runoff be directed into the Area1 Pond to meet the requirement?

NM 87103

2. Please recheck the first flush requirement calculation. For redevelopment, it should be calculated as Volume=0.26"/12 x 44,302SF.

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- 3. Quantify the volume of first flush runoff that bypasses the first flush ponds and state on plans.
- 4. If the first flush runoff cannot be retained onsite, payment of fee-in-lieu will be required for the bypass amount at a rate of \$8/CF.
- 5. A Bernalillo County Private Facility Drainage Covenant is required for the stormwater quality ponds. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to City of Albuquerque) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.

CITY OF ALBUQUERQUE



If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

THIS PROJECT, WITHIN THE OLD TOWN AREA OF ALBUQUERQUE, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE EXISTING SITE IS DEVELOPED AS THE SHERATON OLD TOWN COMPLEX THAT INCLUDES THE EXISTING HOTEL BUILDING AND ASSOCIATED SITE IMPROVEMENTS. PROPOSED IMPROVEMENTS AT THE NORTHWEST CORNER OF THE SITE CONSIST OF MODIFICATIONS TO THE EXISTING PARKING LOT LAYOUT, INCLUDING THE REMOVAL REPLACEMENT OF EXISTING PAVED PARKING AND THE INTRODUCTION OF ADDITIONAL LANDSCAPED PARKING LOT ISLANDS. THE DRAINAGE CONCEPT FOR THIS PROJECT WILL BE TO REDUCE THE RUNOFF GENERATED BY THE SITE AND TO CAPTURE AND TREAT ONSITE THE FIRST FLUSH OF RUNOFF FROM THE PAVED PARKING LOT. THIS WILL BE ACCOMPLISHED VIA ONSITE WATER HARVESTING IN THE NEW LANDSCAPED IMPROVEMENTS.

THIS SUBMITTAL IS MADE IN SUPPORT OF GRADING AND PAVING PERMIT APPROVAL WITHIN THE JURISDICTION OF THE CITY OF ALBUQUERQUE, AND TO ALSO SUPPORT A RELATED SITE DEVELOPMENT PLAN ADMINISTRATIVE AMENDMENT.

II. PROJECT DESCRIPTION

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF RIO GRANDE BLVD NW AND BELLAMAH AVE NW. THE SITE IS DEVELOPED AS A HOTEL BUILDING WITH CONVENTION SPACE, ASSOCIATED PAVED PARKING AND LANDSCAPING. THE NORTHWEST CORNER OF THE SITE IS CURRENTLY DEVELOPED AS AN EXISTING PARKING LOT. THE CURRENT LEGAL DESCRIPTION IS TRACTS A, B AND D, SHERATON OLD TOWN INN COMPLEX. AS SHOWN BY PANEL 331 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, REVISED AUGUST 16. 2012, THE NORTHWEST CORNER OF THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THIS SITE IS CURRENTLY ALLOWED FREE DISCHARGE FROM THE PARKING LOT VIA SURFACE RUNOFF TO EXISTING PERIMETER LANDSCAPE BUFFERS BEFORE DRAINING TO THE PUBLIC RIGHT OF WAYS OF RIO GRANDE BLVD AND BELLAMAH AVE NW.

III.BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

• DRAINAGE MASTER PLAN FOR SHERATON OLD TOWN PREPARED BY HIGH MESA CONSULTING GROUP, NMPW 8547, DATED 06-23-2014. THE 2014 DMP ESTABLISHED THE DRAINAGE BASINS FOR THE DEVELOPED SITE, AS WELL AS DRAINAGE AND STORMWATER CONTROL GUIDELINES AND CRITERIA FOR EACH BASIN OF THE SITE. THIS PROJECT LIES WITHIN BASIN E AS ESTABLSHED IN THE 2014 DMP.

• PARTIAL TOPOGRAPHIC SURVEY UPDATE OF TRACTS A, B AND D, SHERATON OLD TOWN INN COMPLEX PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184. DATED 02-05-2018. THE SUBJECT SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE AS DEPICTED BY THIS SUBMITTAL.

IV.EXISTING CONDITIONS

THE PROJECT SITE IS LOCATED AT THE NORTHWEST CORNER OF THE OVERALL SITE AND IS WHOLLY CONTAINED WITHIN BASIN E AS DEFINED BY THE 2014 DRAINAGE MASTER PLAN. THE PROJECT SITE CONSISTS OF EXISTING PAVED PARKING AND LIMITED LANDSCAPING IMPROVEMENTS. THE BASIN CURRENT DRAINS FROM SOUTHEAST TO NORTHWEST, SURFACE DRAINING ACROSS THE PARKING LOT TO AN EXISTING LANDSCAPE BUFFER AT THE NORTH AND WEST PERIMETER OF THE SITE. OVERFLOW FROM THE LANDSCAPE BUFFER SURFACE DISCHARGES INTO THE RIO GRANDE BLVD AND BELLAMAH AVE NW RIGHT-OF-WAYS AT AN ALLOWABLE (EXISTING) DISCHARGE RATE OF 4.3 CFS/AC.

THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE. BASIN F TO THE EAST AND BASIN D TO THE SOUTH EXHIBIT PARALLEL TOPOGRAPHY TO THE EXISTING BASIN E AND DISCHARGE TO THE PUBLIC RIGHT OF-WAY DIRECTLY.

V. DEVELOPED CONDITIONS

THE PROPOSED PROJECT AREA IS WHOLLY CONTAINED WITHIN DRAINAGE BASIN E AS DEFINED BY THE 2014 DRAINAGE MASTER PLAN. THE PROPOSED IMPROVEMENTS CONSIST OF REMOVAL AND REPLACEMENT OF EXISTING ASPHALT PAVED PARKING LOT WITH NEW PAVED PARKING AND DEPRESSED LANDSCAPED ISLANDS. THE PROPOSED PAVED IMPROVEMENTS WILL DRAIN FROM SOUTHEAST TO NORTHWEST, MAINTAINING THE DRAINAGE PATTERN OF THE EXISTING PARKING LOT. RUNOFF WILL DRAIN TO THE NEW DEPRESSED LANDSCAPED AREAS TO THE MAXIMUM EXTENT PRACTICABLE IN ORDER TO CAPTURE AND MITIGATE THE FIRST FLUSH OF RUNOFF GENERATED BY THE PROPOSED IMPERVIOUS PAVEMENT. THE EXISTING LANDSCAPED BUFFERS AT THE PERIMETER OF THE NORTH AND WEST EDGES OF THE SITE WILL BE MAINTAINED TO MITIGATE RUNOFF FROM THE NEW PARKING.

THERE WILL BE A DECREASE IN RUNOFF GENERATED BY THE SITE DUE TO REPLACING IMPERVIOUS PAVED AREA WITH NEW DEPRESSED LANDSCAPED WATER HARVESTING ISLANDS.

AS PER THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS THAT IMPACT THE PROJECT SITE.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 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 IMPROVEMENTS WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF THE SITE, DISCHARGING DEVELOPED RUNOFF TO NEW LANDSCAPED ISLAND WATER HARVESTING AREAS AND PERIMETER LANDSCAPED BUFFERS TO MITIGATE RUNOFF BEFORE RELEASING TO THE ADJACENT PUBLIC RIGHT-OF-WAYS.

VII. FIRST FLUSH

THE FIRST FLUSH GENERATED BY THE PROPOSED IMPROVEMENTS ($V_{FF} = 1000 \text{ CF}$) WILL BE CAPTURED AND MITIGATED IN THE NEW DEPRESSED LANDSCAPED ISLANDS PROPOSED IN THIS PROJECT (VRET TOTAL = 1570 CF), THEREBY MEETING THE CITY FIRST FLUSH ORDINANACE REQUIREMENTS. ADDITIONALLY, THE EXISTING LANDSCAPED BUFFERS AT THE NORTHERN AND WESTERN PERIMETER OF THE SITE WILL CONTINUE TO MITIGATE AND TREAT RUNOFF FROM THE PARKING LOT AS A WATER QUALITY BENEFIT.

VIII. EROSION CONTROL PLAN

PER COORDINATION WITH THE CITY OF ALBUQUERQUE STORMWATER QUALITY ENGINEER, THE REMOVAL AND REPLACEMENT OF EXISTING ASPHALT PAVEMENT QUALIFIES AS 'PARKING LOT MAINTENANCE' AND THEREFORE THIS PROJECT DOES NOT MEET THE CRITERIA REQUIRING A SEPARATE SEDIMENT EROSION CONTROL PLAN OR STORM WATER POLLUTION PREVENTION PLAN.

IX. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR THE PROJECT SITE. 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, THERE WILL BE A REDUCTION IN RUNOFF GENERATED DUE TO REPLACING IMPERVIOUS AREA WITH LANDSCAPED PERVIOUS AREA. EXISTING DEPRESSED LANDSCAPED AREA WATER HARVESTING CALCULATIONS WERE ALSO PERFORED USING THE END-AREA METHOD; THESE CALCULATIONS DEMONSTRATE THAT THE EXISTING LANDSCAPED ISLANDS WILL HAVE SUFFICIENT CAPACITY (1,570 CF) TO CAPTURE AND MITIGATE THE FIRST FLUSH GENERATED (1000 CF).

X. CONCLUSIONS

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

- 1. THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE EXISTING DRAINAGE PATTERN FOR THE PROJECT SITE
- 2. THE PROPOSED IMPROVEMENTS WILL RESULT IN A REDUCTION IN THE DEVELOPED RUNOFF GENERATED BY THE SITE.
- 3. PER THE 2014 DRAINAGE MASTER PLAN FOR THE SITE, BASIN E (IN WHICH THIS PROJECT IS WHOLLY CONTAINED) IS ALLOWED 4.3 CFS/AC DISCHARGE TO THE PUBLIC RIGHT-OF-WAYS; THE PROPOSED DEVELOPED AREA WILL GENERATE 4.25 CFS/AC, MEETING THE ALLOWABLE RATE.
- 4. FIRST FLUSH ORDINANCE REQUIREMENTS WILL BE MET BY DISCHARGING RUNOFF INTO DEPRESSED LANDSCAPED ISLANDS TO THE MAXIMUM EXTENT PRACTICABLE $(V_{RET\ TOTAL} = 1570\ CF > V_{FF} = 1000\ CF)$
- 5. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.
- 6. PER COORDINATION WITH THE COA STORM WATER QUALITY ENGINEER, THIS PROJECT DOES NOT MEET THE CRITERIA NECESSARY TO BE SUBJECT TO AN EPA NPDES PERMIT AND WILL NOT REQUIRE A SEPARATE EROSION AND SEDIMENT CONTROL PLAN.

CALCULATIONS

I. SITE CHARACTERISTICS A. PRECIPITATION ZONE =

B.	P _{100, 6 HR} = P ₃₆₀ =	2.35	IN
C.	TOTAL PROJECT AREA (A_T) =	49,470	SF
	TOTAL PROJECT AREA (AT) -	1.2	AC

D. LAND TREATMENTS

1.	EXISTING LAND TREATMENT					
	LAND TREATMENT	AREA (SF/	AC)	%		
	Α					
	В	890	SF	2		
	В	0.02	AC	2		
	С					
	,					
	0	48,580		93		
	J.	1.12	AC			

DEVELOPED LAND TREATMENT						
LAND TREATMENT	AREA (SF/	AC)	%			
А						
X						
В	5,168		10			
ŭ	0.12	AC	-			
С						
C						
D	44,302	SF	85			
ט	1.02	۸۲	00			

II. <u>HYDROLOGY</u>

A. EXISTING CONDITION <u> 100-YR, 6-HR STORM</u>

a. VOLUME	
$E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D}$) /A T
$E_W = (0.53*0.00) + (0.78*0.02) - (0.78*0.02)$	+ (1.13*0.00) + (2.12
\/ - /F /10\A -	(2.10/12)1.20 -

2*1.12)/1.20 = 2.10 IN 0.2100 = AC-FT = **9,150 CF** $V_{100.6 \, HR} = (E_W/12)A_T =$ (2.10/12)1.20 =

Q_P = 5.3 CFS

1.98 IN

$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ = (1.56 * 0.00) + (2.28 * 0.02) + (3.14 * 0.00) + (4.70 * 1.12) =

B. <u>DEVELOPED CONDITION</u> 1. 100-YR, 6-HR STORM <u>a. VOLUME</u>

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ $E_W = (0.53*0.00) + (0.78*0.12) + (1.13*0.00) + (2.12*1.02)/1.20 =$ (1.98/12)1.20 = 0.1980AC-FT = 8,620 CF $V_{100,6 HR} = (E_W/12)A_T =$

b. PEAK DISCHARGE $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

= (1.56 * 0.00) + (2.28 * 0.12) + (3.14 * 0.00) + (4.70 * 1.02) = 5.1 CFS $Q_{DEV} = 5.1 \text{ CFS } / 1.2AC =$ 4.25 CFS/AC Q_{DEV} = 4.25 CFS/AC < Q_{ALLOW} = 4.3 CFS/AC; OK

C. <u>COMPARISON</u> 100-YR, 6-HR STORM <u>a. VOLUME</u>

8620 - 9150 = $\Delta V_{100.6 HR} =$ -530 CF (DECREASE) b. PEAK DISCHARGE 5.1 - 5.3 = **-0.2 CFS** (DECREASE)

D. FIRST FLUSH REQUIREMENT CALCULATION

<u>a. VOLUME</u> $V_{FF GENERATED} = (E_{FF}/12)A_D = (0.26/12)*1.02 =$ 0.0221 AC-FT = 1000 CF

E. <u>DEVELOPED FIRST FLUSH RETENTION PONDING VOLUME</u>

NW CORNER LANDSCAPE AREA (AREA 1)

EXISTING RETENTION POND VOLUME BY ELEVATION					
ELEVATION (FT)	AREA (SF)	VOLUME (CF)	∑VOLUME (cf)		
60.7	30				
61.0	880	137	137		
61.7	1,730	913	1,050		

2. NORTH LANDSCAPE ISLAND - WEST (AREA 2)

EXISTING RETENTION POND VOLUME BY ELEVATION					
ELEVATION (FT)	AREA (SF)	VOLUME (CF)	∑VOLUME (cf)		
61.7	100				
62.1	450	110	110		

NORTH LANDSCAPE ISLAND - EAST (AREA 3)

EXISTING RETENTION POND VOLUME BY ELEVATION				
	ELEVATION (FT)	AREA (SF)	VOLUME (CF)	∑VOLUME (cf)
	62.2	50		
	62.6	395	90	90

MEST LANDSCADED EDGE (ADEA A

WES	WEST LANDSCAPED EDGE (AREA 4)							
	/ATION							
	ELEVATION (FT)	AREA (SF)	VOLUME (CF)	∑VOLUME (cf)				
	60.3	135						
	60.7	405	110	110				

*EXIST. DEPRESSED LANDSCAPING - NORTH EDGE = 60 CF **NEW LANDSCAPED ISLAND = 40 CF

5 EXISTING DEPRESSED LANDSCAPING - (AREA 5)

O. <u>LXIO</u>	O. EXICTING BEI REGOLD EANDOGATING (AREA O)					
	EXISTING RETENTION POND VOLUME BY ELEVATION					
	ELEVATION (FT)	AREA (SF)	VOLUME (CF)	∑VOLUME (cf)		
	61.1	145				
	61.5	385	110	110		

F. CONTRIBUTING IMPERVIOUS AREA TO FIRST FLUSH RETENTION 'PONDS

AREA #1	AREA #2	AREA #3
$A_{IMPERV, 1} = 0.17 AC$	$A_{IMPERV, 2} = 0.14 AC$	$A_{IMPERV, 3} = 0.13 AC$
V _{IMPERV, FF} = 160 CF	V _{IMPERV, FF} = 130 CF	V _{IMPERV, FF} = 125 CF
V _{100-YR, AREA 1} = 1,070 CF	$V_{R100-YR, AREA 2} = 1,150 CF$	$V_{100-YR, AREA 3} = 1000 CF$
V _{FF RETAINED AREA 1} = 1,050 (CF V _{FF RETAINED AREA 2} = 110 CF	V _{FF RETAINED AREA 3} = 90 CF

 $A_{IMPERV, 5} = 0.32 AC$ $A_{IMPERV, 4} = 0.32 AC$ $V_{IMPERV, FF}$ = 280 CF V_{IMPERV, FF} = 305 CF $V_{100-YR, AREA 5} = 2,460 CF$ $V_{100-YR, AREA 5} = 2,310 CF$ V_{FF RETAINED AREA 4} = 210 CF V_{FF RETAINED AREA 4} = 110 CF

VFF RETAINED PROJECT = VFFRET AREA 1 + VFF RET AREA 2 + VFF RET AREA 3 + VFF RET AREA 4 + VFF RET AREA 5 VFF RETAINED PROJECT = 1,050 + 110 + 90 + 210 + 110 = 1,570 CF > VFF GENERATED = 1000 CF; OK

LEGEND

- AIR CONDITIONER AREA LIGHT ASPHALT PAVEMENT **BLDG** BUILDING
- BUILDING OVERHANO CURB & GUTTER
- C&G COMMUNICATIONS LINE COMMUNICATIONS LINE BY PAINT MARK
- COMMUNICATIONS CABINET COMMUNICATIONS CONDUIT CDF CONCRETE DRIVE PAD
- CRUSHER FINES CHC CONCRETE HEADER CURB CLD CENTERLINE DOOR
- CLDD CENTERLINE DOUBLE DOOR CONCRETE MASONRY UNIT WALL SANITARY SEWER CLEANOUT COP CURB OPENING
- CSW CONCRETE SIDEWALK DCO DOUBLE SANITARY SEWER CLEANOUT E/PM ELECTRIC LINE BY PAINT MARK
- EDGE OF ASPHALT ELECTRIC BREAKER BOX ELECTRIC CONDUIT EPB ELECTRIC PULLBOX FIRE HYDRANT
- FLOWLINE FIRE LINE CONNECTION GAS LINE BY PAINT MARK G/PM
- GAS LINE GAS LINE MARKER GAS PRESSURE REGULATOR GPR GRV GRAVFI
- GAS SERVICE GAS VALVE BOX HCS HANDICAPPED PARKING SIGN IRRIGATION CONTROL BOX
- INV INVFRT IRRIGATION VALVE BOX LAUNDRY VENT MANHOLE METAL LIGHT POLE MLP
- MR METAL RAMP OVERHEAD COMMUNICATIONS (# OF LINES) OVERHEAD ELECTRIC (# OF LINES) WHEEL STOP
- PAINTED PARKING LOT ISLAND PRESSURE RELIEF VALVE PAINTED PARKING STRIPE
- RIVER ROCKS LANDSCAPING RAILROAD TIES SANITARY SEWER STORM DRAIN
- SDI STORM DRAIN INLET STORM DRAIN MANHOLE SDMH SGP STEEL GUARD POST ELECTRIC SWITCH GEAR SWC SIDEWALK CULVERT
- SPD SPEED BUMP STW STUCCO WALL SIDEWALK TOP OF ASPHAL
- TOP OF CURB TOP OF CONCRETE TOP OF GRATE
- TRAFFIC PULLBOX ELECTRIC TRANSFORMER TRAFFIC SIGNAL
- TSPB TRAFFIC SIGNAL PULLBOX TYPICAL CABLE TELEVISION LINE BY PAINT MARK CABLE TELEVISION CABINET
- CABLE TELEVISION CABINET CABLE TELEVISION RISER UNKNOWN UNK
- W/PM WATER LINE BY PAINT MARK CONCRETE WHEELCHAIR RAMP WCR WOOD FENCE
- WATER FAUCET WATER HOT BOX WOOD LIGHT POLE WATER METER BOX
- WOOD POLE WOOD POWER POLE WATER VALVE BOX TREE TRUNK DIAMETER
- DECIDUOUS TREE
- SMALL DECIDUOUS TREE

CONIFEROUS TREE

- SMALL CONIFEROUS TREE
- SMALL SHRUB BOULDER
- * PAINTED UTILITY MARKER ★ STUMP YUCCA

CONSTRUCTION NOTES:

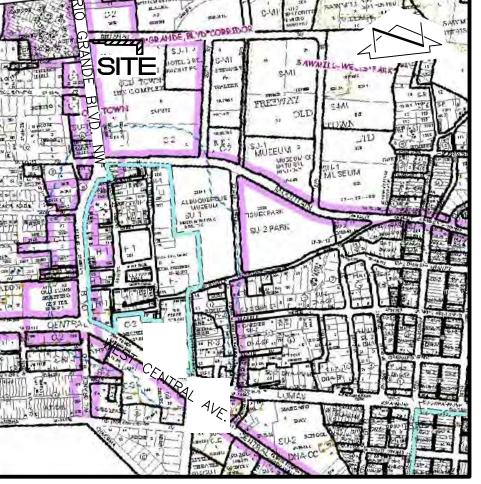
- . ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO
- CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06). 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
- 3. 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.
- 4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND
- 5. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF
- ALBUQUERQUE STANDARDS AND PROCEDURES. 6. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE. CITY OF ALBUQUERQUE AND ABCWUA DISTRIBUTION MAPS, AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES, SITE UTILITY REPORT DATE 09-19-2013. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 2013362998). 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 O 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 7. 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.
- 8. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

EROSION & SEDIMENT CONTROL MEASURES:

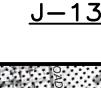
- 1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- 2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED
- DOWN THE STREET. 3. SPOILS FROM THE PROJECT SHALL NOT BE DEPOSITED OR STORED IN THE STREET OR ROADWAY.
- 4. SPOILS SHALL BE STAGED ON THE UPSTREAM SIDE OF TRENCHES WHEN TRENCHING IS REQUIRED. 5. 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 6. CONTRACTOR SHALL LEAVE THE AREA IMMEDIATELY BEHIND THE CURB DEPRESSED TO CONTAIN NUISANCE FLOWS AND SEDIMENT
- 7. 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. 8. 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. 9. UNLESS FINAL STABILIZATION IS OTHERWISE PROVIDED FOR, ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD, EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEEDED ACCORDING TO CITY OF ALBUQUERQUE SPECIFICATION 1012 "MISCELLANEOUS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE
- 10.PROTECT EXISTING STORM DRAIN FACILITIES FROM SEDIMENT AS



VICINITY MAP





F.I.R.M. SCALE: 1" = 500'

PANEL 331 of 825 DATED 08-16-2012

BENCHMARKS

PROJECT BENCHMARK

AN AGRS BRASS DISK STAMPED "5-J13A", SET FLUSH WITH TOP OF CURB, AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF MOUNTAIN ROAD N.W. AND NINETEENTH STREET N.W. ELEVATION = 4960.499 FEET (NAVD 1988)

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

A MAG NAIL SET IN CONCRETE, IN THE NORTHEASTERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET. ELEVATION = 4960.99 FEET (NAVD 1988)

TEMPORARY BENCHMARK #2 (T.B.M.)

A A NAIL WITH TIN STAMPED "LS 11808", SET IN CONCRETE SIDEWALK IN THE NORTHEAST CORNER OF THE INTERSECTION OF 19th ST NW AND BELLAMAH AVE NW, NOT SHOWN. ELEVATION = 4960.66 FEET (NAVD 1988)

INDEX OF DRAWINGS

SHEET	DESCRIPTION
C-001	COVER SHEET, DRAINAGE PLAN AND CALCULATIONS
VF-101	PARTIAL TOPOGRAPHIC SURVEY UPDATE
C-101	PAVING SITE PLAN/TRAFFIC CIRCULATION LAYOUT
C-102	GRADING PLAN
C-103	PAVING SECTIONS AND DETAILS



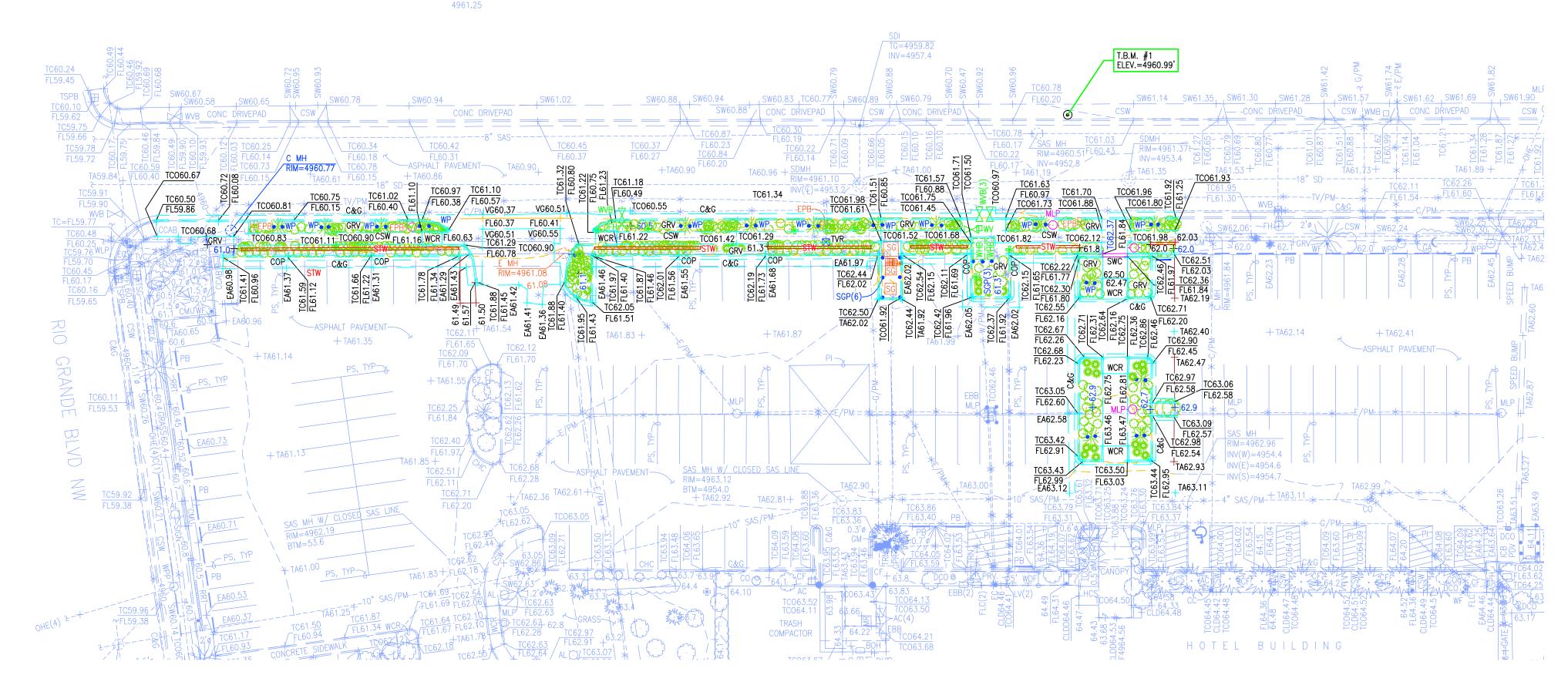
03-07-2018



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COVER SHEET, DRAINAGE PLAN AND CALCULATIONS HOTEL ALBUQUERQUE NORTHWEST PARKING LOT IMPROVEMENTS

ND. DATE BY REVISIONS 2017.060.2 DESIGNED BY G.M. 03-2018 DRAWN BY APPROVED BY G.M. C - 001



BENCHMARKS

PROJECT BENCHMARK

AN AGRS BRASS DISK STAMPED "5-J13A", SET FLUSH WITH TOP OF CURB, AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF MOUNTAIN ROAD N.W. AND NINETEENTH STREET N.W. ELEVATION = 4960.499 FEET (NAVD 1988)

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ELEVATION = 4960.66 FEET (NAVD 1988)

NOTES

- 1. A PARTIAL TOPOGRAPHIC SURVEY UPDATE WAS PERFORMED IN FEBRUARY, 2018.
 THIS IS NOT A BOUNDARY SURVEY, BOUNDARY INFORMATION SHOWN IS FOR
 INFORMATION ONLY AND IS BASED UPON THE SURVEY EFFORT PRPEPARED BY THIS
 FIRM AND SIGNED NOVEMBER 06, 2013.
- 2. SCREENED INFORMATION TAKEN FROM THE 2013 SURVEY EFFORT PREPARED BY THIS FIRM AND IS FOR INFORMATION PURPOSES ONLY.
- 3. ALL DISTANCES ARE GROUND DISTANCES.
- 4. SITE LOCATED WITHIN PROJECTED SECTION 18, TOWNSHIP 10 NORTH, RANGE 3 EAST, N M P M
- 5. THIS TOPOGRAPHIC AND UTILITY SURVEY HAS BEEN PREPARED BASED UPON NAVD 88 DATUM. PREVIOUS SURVEYS AND ABCWUA/CITY OF ALBUQUERQUE RECORD DRAWINGS OF THIS AREA HAVE BEEN CONDUCTED BASED UPON NGVD 29 DATUM. SPECIAL CARE SHOULD BE EXERCISED WHEN COMPARING ELEVATIONS FROM THIS SURVEY TO CURRENT AND PREVIOUS SURVEYS, PLANS AND AS-BUILT DOCUMENTS.
- 9. THE MAJORITY OF THE PROPERTY SURVEYED HEREON HAS A SHADED ZONE X DESIGNATION WHICH IS FURTHER DESCRIBED AS "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD"; ALSO, ALONG THE EASTERN PROPERTY LINE OF TRACTS B AND D, SHERATON OLD TOWN INN COMPLEX, THERE IS A ZONE AH (EL 4959) DESIGNATION WHICH IS FURTHER DESCRIBED AS "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD; FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY AREAS OF PONDING); BASE FLOOD ELEVATIONS DETERMINED" BASED UPON REVIEW OF THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAPS, PANEL 331 OF 825, DATED AUGUST 16, 2012.

CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT AN ADJACENT SITE ON SEPTEMBER 10, 2013 AND VERIFIED ON FEBRUARY 01, 2018. CONTROL WAS PROJECTED ONTO THE SUBJECT SITE UTILIZING RTK GPS OBSERVATIONS COMBINED WITH GEOID COAJULO8 TO ESTABLISH HORIZONTAL POSITIONS BASED UPON NAD 83/NAVD 88 DATUM. THE RTK OBSERVATIONS WERE USED TO ESTABLISH THE TEMPORARY BENCHMARKS AT THE PROJECT SITE. THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY. AN AGRS CONTROL STATION AND A SEPARATE HORIZONTAL CONTROL STATION IN THE VICINITY OF THE PROJECT WERE OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. THE CONTROL STATION USED TO PROJECT FROM GRID TO GROUND FOR THIS PROJECT IS THE PROJECT BENCHMARK "5-J13A".

AC AIR CONDITIONER
AL AREA LIGHT
ASPH ASPHALT PAVEMENT
BLDG BUILDING
BOH BUILDING OVERHANG
C&G CURB & GUTTER
C COMMUNICATIONS LINE
C/PM COMMUNICATIONS LINE BY PAINT MARK
CCAB COMMUNICATIONS CABINET
CC COMMUNICATIONS CONDUIT
CDP CONCRETE DRIVE PAD
CF CRUSHER FINES
CHC CONCRETE HEADER CURB
CLD CENTERLINE DOOR
CLDD CENTERLINE DOUBLE DOOR
CMU CONCRETE MASONRY UNIT WALL
CO SANITARY SEWER CLEANOUT
COP CURB OPENING
CSW CONCRETE SIDEWALK
DCO DOUBLE SANITARY SEWER CLEANOUT
E/PM ELECTRIC LINE BY PAINT MARK
EA EDGE OF ASPHALT
EBB ELECTRIC BREAKER BOX
EC ELECTRIC CONDUIT
EPB ELECTRIC PULLBOX
FH FIRE HYDRANT
FL FLOWLINE
FLC FIRE LINE CONNECTION
G/PM GAS LINE BY PAINT MARK
G GAS LINE
GLM GAS LINE MARKER
GPR GAS PRESSURE REGULATOR
GRV GRAVEL
GS GAS SERVICE
GVB GAS VALVE BOX

GLM GAS LINE MARKER
GPR GAS PRESSURE REGULATOR
GRV GRAVEL
GS GAS SERVICE
GVB GAS VALVE BOX
HCS HANDICAPPED PARKING SIGN
ICB IRRIGATION CONTROL BOX
INV INVERT
IVB IRRIGATION VALVE BOX
LV LAUNDRY VENT
MH MANHOLE
MLP METAL LIGHT POLE

MLP METAL LIGHT POLE
MR METAL RAMP
OHC(1) OVERHEAD COMMUNICATIONS (# OF LINES)
OHE(3) OVERHEAD ELECTRIC (# OF LINES)
PB WHEEL STOP
PI PAINTED PARKING LOT ISLAND
PRV PRESSURE RELIEF VALVE
PS PAINTED PARKING STRIPE
RR RIVER ROCKS
RRT LANDSCAPING RAILROAD TIES

PS PAINTED PARKING STRIPE
RR RIVER ROCKS
RRT LANDSCAPING RAILROAD TIES
SAS SANITARY SEWER
SD STORM DRAIN
SDI STORM DRAIN INLET
SDMH STORM DRAIN MANHOLE
SGP STEEL GUARD POST
SG ELECTRIC SWITCH GEAR
SWC SIDEWALK CULVERT
SPD SPEED BUMP
STW STUCCO WALL
SW SIDEWALK
TA TOP OF ASPHALT
TC TOP OF CURB
TCO TOP OF CONCRETE
TG TOP OF GRATE
TPB TRAFFIC PULLBOX
TRN ELECTRIC TRANSFORMER

TRN ELECTRIC TRANSFORMER
TSG TRAFFIC SIGNAL
TSPB TRAFFIC SIGNAL PULLBOX
TYP TYPICAL
TV/PM CABLE TELEVISION LINE BY PAINT MAR
TVC CABLE TELEVISION CABINET
TVCAB CABLE TELEVISION CABINET
TVR CABLE TELEVISION RISER

NK UNKNOWN
/ WITH
/PM WATER LINE BY PAINT MARK
CR CONCRETE WHEELCHAIR RAMP
DF WOOD FENCE
F WATER FAUCET
HB WATER HOT BOX
LP WOOD LIGHT POLE
MB WATER METER BOX

WP WOOD POLE
WPP WOOD POWER POLE
WVB WATER VALVE BOX
0.5'Ø TREE TRUNK DIAMETER

** SMALL DECIDUOUS TREE

DECIDUOUS TREE

CONIFEROUS TREE

SMALL CONIFEROUS TREE

SHRUB

SMALL SHRUBBOULDER* PAINTED UTILITY MARKER

STUMPYUCCAIRRIGATION VALVE BOX



VICINITY MAP

<u>_</u>

FEDERAL EMERGENCY MANAGEMENT AGENCY



F.I.R.M.

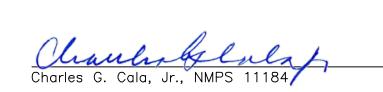
SCALE: 1" = 500'

PANEL 331 of 825

DATED 08-16-2012

SURVEYORS CERTIFICATION

I, Charles G. Cala, Jr., New Mexico Professional Surveyor No. 11184, do hereby certify; that this Partial Topographic Survey Update and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that the survey shows all easements made known to me by this owner, utility companies, or other parties expressing an interest; that this survey meets the Minimum Standards for Surveying in New Mexico, and that it is true and correct to the best of my knowledge and belief.





2/5/2018

HIGH
MESA Consulting Group
Engineers, Surveyors & Subsurface Utility Consultants

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PARTIAL TOPOGRAPHIC SURVEY UPDATE

TRACTS A, B AND D, SHERATON OLD TOWN INN COMPLEX

ND. DATE BY REVISIONS

SURVEYED BY E.J.S.

DATE DRAWN BY E.J.S.

APPROIVED BY C.G.C.

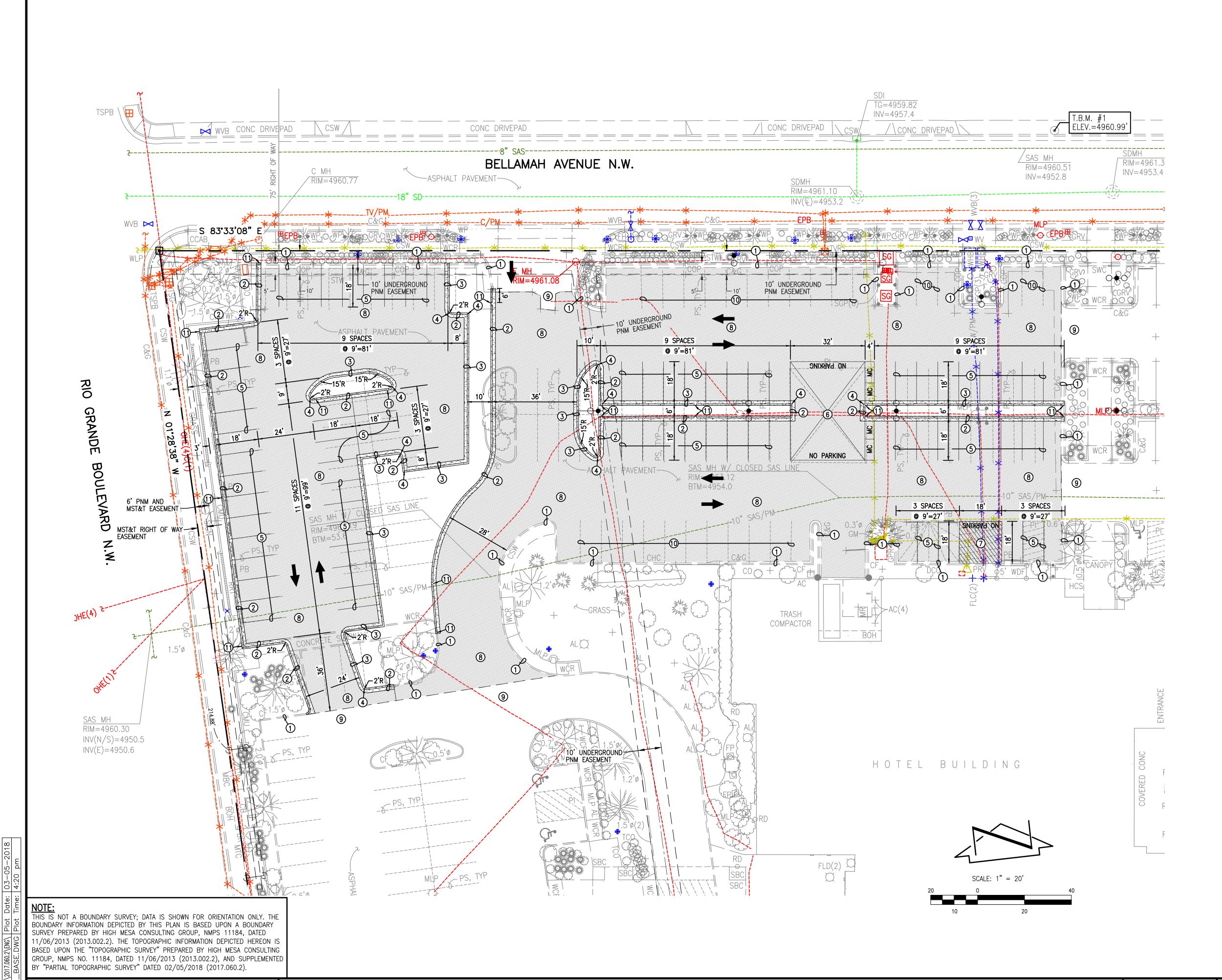
ND. DATE BY REVISIONS

2017.060.2

DATE 02-2018

SHEET VF-101

File Path: P:\DATA\2017\2017\2017.060.2\SUR\ Plot Date: 02-05-2018



LEGEND

AIR CONDITIONER TOP OF ASPHALT AREA LIGHT TOP OF CURB ASPH BLDG BOH C&G ASPHALT PAVEMENT TOP OF CONCRETE TOP OF GRATE BUILDING BUILDING OVERHANG CURB & GUTTER TRAFFIC PULLBOX ELECTRIC TRANSFORMER TRN TSG TSPB TYP COMMUNICATIONS LINE TRAFFIC SIGNAL COMMUNICATIONS LINE BY PAINT MARK TRAFFIC SIGNAL PULLBOX COMMUNICATIONS CABINET COMMUNICATIONS CONDUIT CABLE TELEVISION LINE BY PAINT MARK CONCRETE DRIVE PAD CABLE TELEVISION CABINET CRUSHER FINES CABLE TELEVISION CABINET CONCRETE HEADER CURB CABLE TELEVISION RISER CENTERLINE DOOR UNKNOWN CENTERLINE DOUBLE DOOR CONCRETE MASONRY UNIT WALL WATER LINE BY PAINT MARK CONCRETE WHEELCHAIR RAMP SANITARY SEWER CLEANOUT WCR WDF CURB OPENING WOOD FENCE CONCRETE SIDEWALK WATER FAUCET DOUBLE SANITARY SEWER CLEANOUT ELECTRIC LINE BY PAINT MARK WATER HOT BOX WOOD LIGHT POLE EDGE OF ASPHALT WATER METER BOX ELECTRIC BREAKER BOX WOOD POLE ELECTRIC CONDUIT WOOD POWER POLE ELECTRIC PULLBOX WATER VALVE BOX FIRE HYDRANT 0.5**'**ø TREE TRUNK DIAMETER FIRE LINE CONNECTION DECIDUOUS TREE GAS LINE BY PAINT MARK GAS LINE MARKER SMALL DECIDUOUS TREE GPR GRV GS GAS PRESSURE REGULATOR CONIFEROUS TREE GAS VALVE BOX HANDICAPPED PARKING SIGN IRRIGATION CONTROL BOX SMALL CONIFEROUS TREE IRRIGATION VALVE BOX LAUNDRY VENT SMALL SHRUB METAL LIGHT POLE BOULDER OVERHEAD COMMUNICATIONS (# OF LINES)
OVERHEAD ELECTRIC (# OF LINES) PAINTED UTILITY MARKER WHEEL STOP STUMP PAINTED PARKING LOT ISLAND PRESSURE RELIEF VALVE YUCCA PAINTED PARKING STRIPE IRRIGATION VALVE BOX RIVER ROCKS LANDSCAPING RAILROAD TIES SANITARY SEWER PROPOSED CONCRETE PAVING STORM DRAIN INLET STORM DRAIN MANHOLE PROPOSED ASPHALT PAVING SGP STEEL GUARD POST ELECTRIC SWITCH GEAR SWC SPD STW SIDEWALK CULVERT SPEED BUMP STUCCO WALL SIDEWALK

KEYED NOTES

1) EXISTING CURB AND GUTTER TO REMAIN

- 2. CONSTRUCT 6" (STANDARD) CURB AND GUTTER PER TYPICAL SECTION, SHEET C-103
- 3. CONSTRUCT 6" (DEPRESSED) CURB AND GUTTER PER TYPICAL SECTION, SHEET C-103
- 4. TRANSITION BETWEEN STANDARD AND DEPRESSED CURB AND GUTTER
- 5. PAINT 4" WIDE WHITE PAVEMENT MARKINGS WITH WHITE TRAFFIC PAINT, MINIMUM 2 COATS
- 6. PAINT 4" WIDE YELLOW PAVEMENT MARKING 'X' AS SHOWN WITH YELLOW TRAFFIC PAINT AND STENCIL 'NO PARKING', MIN. 2 COATS
- 7. PAINT 4" WIDE CROSSHATCH PAVEMENT MARKING @ 45 DEG, 2' C-C WITH RED TRAFFIC PAINT AND STENCIL 'NO PARKING', MINIMUM 2 COATS
- 8. SAWCUT, REMOVE / PULVERIZE EXISTING ASPHALT PAVEMENT IN PLACE; REPLACE WITH 3" ASPHALT PAVEMENT PER TYPICAL SECTION, SHEET C-103. MIX PULVERIZED ASPHALT PAVEMENT WITH EXISTING SUBGRADE AND COMPACT TO SERVE AS BASECOURSE FOR NEW PAVEMENT.
- 9. EXISTING ASPHALT PAVEMENT TO REMAIN (LIMITS TO BE VERIFIED WITH OWNER)
- 10. REPAINT 4" WHITE PAVEMENT MARKINGS TO MATCH EXISTING STRIPING ALIGNMENT, WITH WHITE TRAFFIC PAINT, MINIMUM 2 COATS
- (1) CONSTRUCT 12" WIDE CURB OPENING PER TYPICAL SECTION, SHEET C-103

BENCHMARKS

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HOTEL ALBUQUERQUE
NORTHWEST PARKING LOT IMPROVEMENTS

	N□.	DATE	BY	REVISIONS	JOB NO.	ı
DESIGNED BY <u>G.M.</u>						2017.060.
drawn by S.C.C.					DATE	03-2018
DRAWN BY <u>S.C.C.</u>						00 2010
APPR⊡∨ED BY G.M.					SHEET	C 101
						U-101