CITY OF ALBUQUERQ



Richard J. Berry, Mayor

December 17, 2015

Fred Arfman, PE ISAACSON & ARFMAN, P.A. 128 Monroe Street NE Albuquerque, NM 87108

RE: Westgate Heights Park Addition, Unit 2 (File: M09D008B) 8810 Sonya Ave. SW Grading Plan and Drainage Plan Engineer's Stamp Date -12/010/2015

Dear Mr. Arfman:

Based upon the information provided in your submittal received 12-10-15, the above referenced Grading Plan and Drainage Plan cannot be approved for Grading Permit and Paving Permit until the following comments are addressed.

- Provide spot and contour elevations on the Overall Grading and Drainage Plan sheet.
- Provide flow line elevations at the outfall for each proposed sidewalk culvert onsite.
- The total area for historic flows does not match the total area for developed flows in the Calculation section of the Overall Grading and Drainage Plan sheet. Review this information to ensure the total basin area for existing and proposed conditions match.
- The area of land treatment D used in the First Flush calculation shown appears to be based on information provided in the previous submittal. Update the First Flush calculation on the Grading General Notes and Details sheet to reflect the changes to the area of land treatment D shown in the Calculation section of the Overall Grading and Drainage Plan sheet.

New Mexico 87103

PO Box 1293

Albuquerque

If you have any questions, you can contact me at 924-3421.

www.cabq.gov

Rudy Archuleta, P.E.

Sincerely,

Senior Engineer, Planning Dept.

Development Review Services

Orig: c.pdf Drainage file Addressee via Email



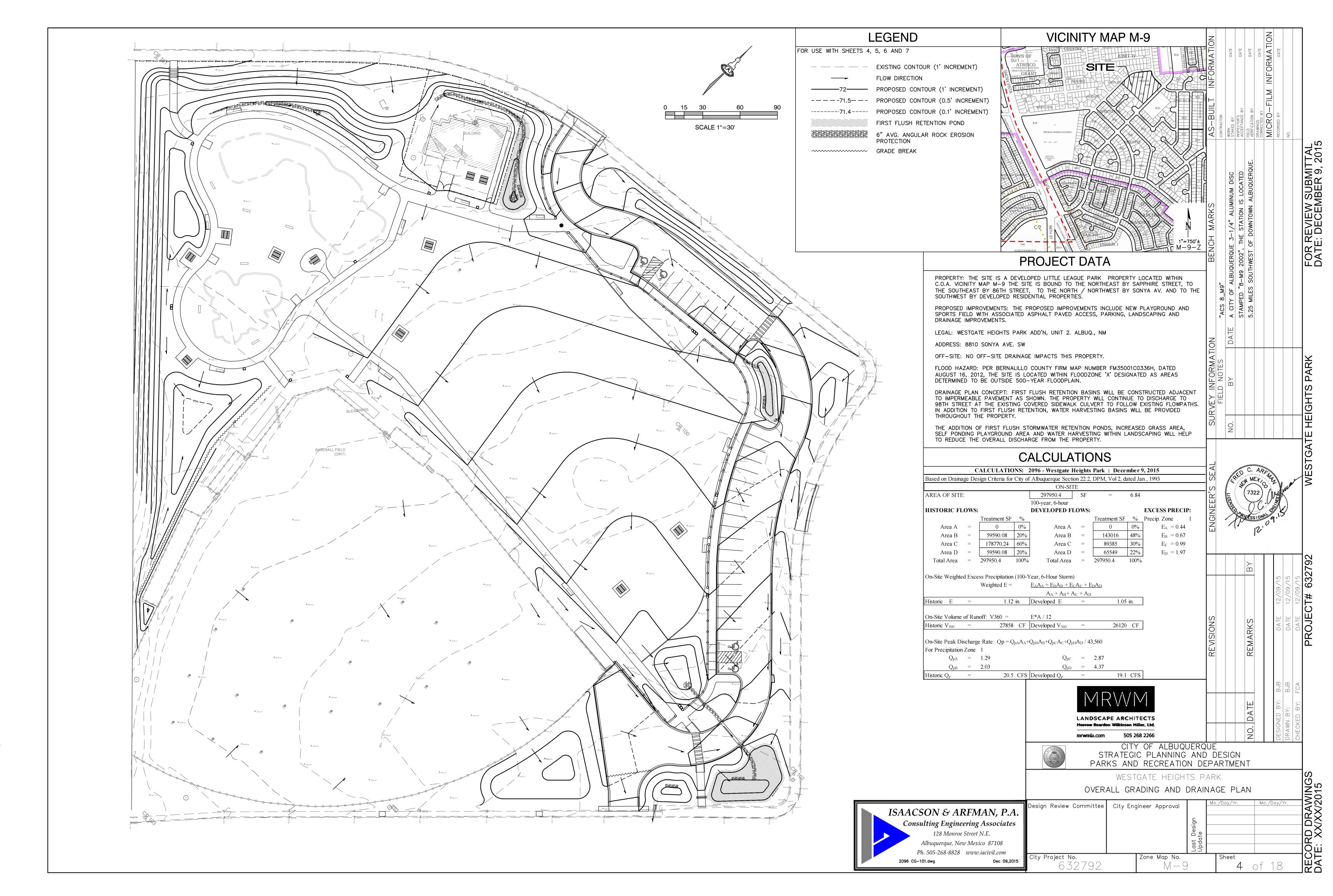
City of Albuquerque

Planning Department

Development & Building Services Division

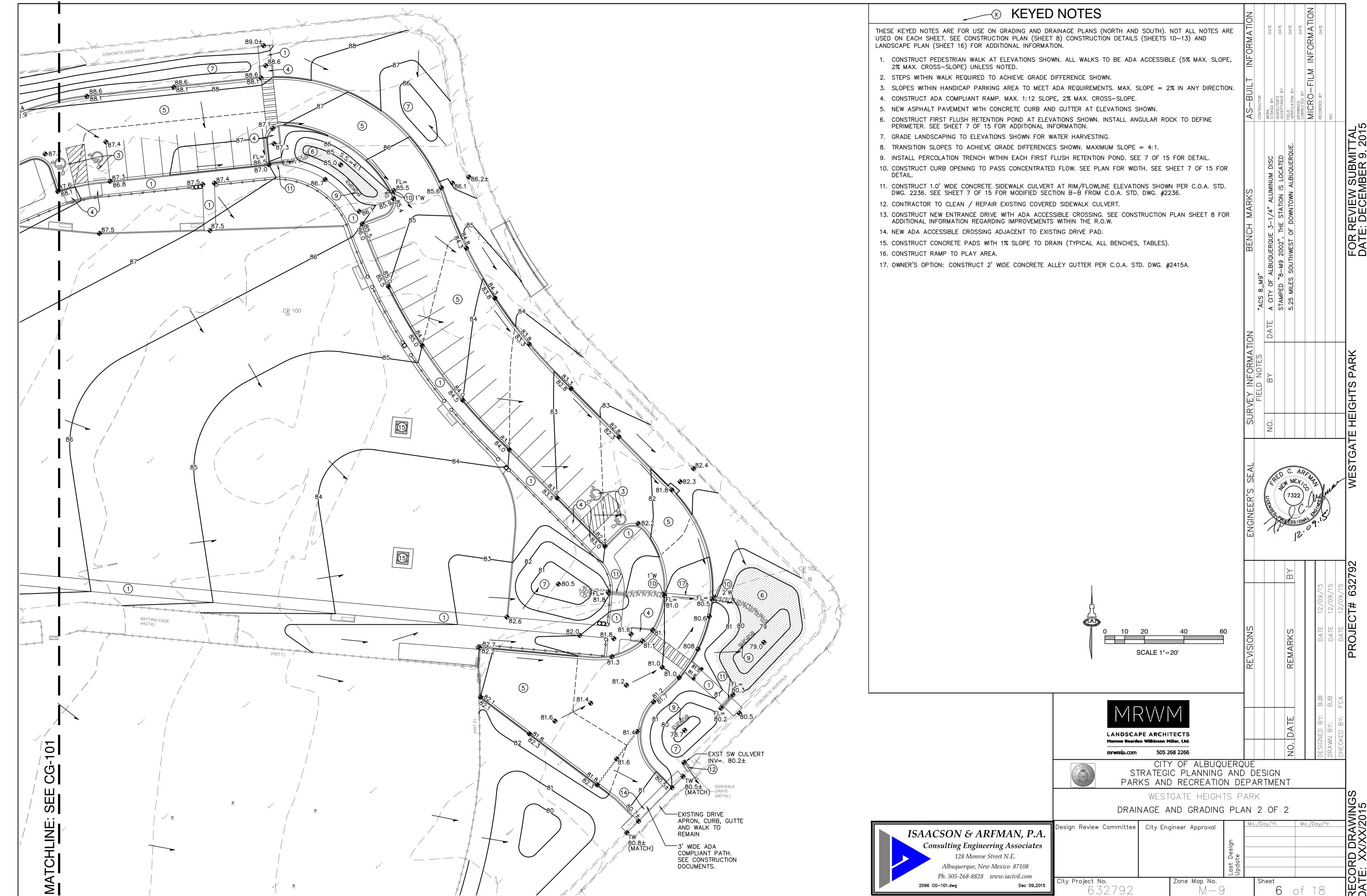
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

	Building Permit #: City Drainage #: M09/D00
DRB#: EPC#:	Work Order#:
Legal Description: Westgate Heights Park Addition, Unit 2	
City Address: 8810 Sonya Ave. SW - Albuquerque, NM	
Engineering Firm: Isaacson & Arfman, P.A.	Contact: Fred C. Arfman
Address: 128 Monroe Street NE - Albuquerque, NM 87108	
Phone#: (505) 268-8828 Fax#:	E-mail: freda@iacivil.com
Owner: City of Albuquerque	Contact:
Address: Phone#: Fax#:	E mail:
Phone#: Fax#:	E-mail:
Architect: Morrow Reardon Wilkinson Miller, Ltd	Contact:
Address: 210 La Veta Drive NE - Albuquerque, NM 87108	
Phone#: (505) 268-2266 Fax#:	E-mail:
Other Contact:	
Address:	
Phone#: Fax#:	E-mail:
	X 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 EGUARANTEE FOUNDATION PERMIT APPROVAL
DRAINAGE REPORT	FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL DEC 1 0 2015
CLOMR/LOMR	SO-19 APPROVAL
TRACEIC CIRCUI ATION LAVOUT (TCL)	PAVING PERMIT APPROMAND DEVELOPMENT SECT
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)	GRADING/ PAD CERTIFICATION
EROSION & SEDIMENT CONTROL PLAN (ESC)	WORK ORDER APPROVAL
Dicoron & obbinding continue Ferri (Ecc)	CLOMR/LOMR
OTHER (SPECIFY)	PRE-DESIGN MEETING
	OTHER (SPECIFY)
IS THIS A RESUBMITTAL?: X Yes No	
DATE SUBMITTED: December 10, 2015 By: Fred	



M:\PROJECTS\2000-2099\2096\DWG\2096 CG-101.dwg, 12/10/2015 8:20:37

M:\PROJECTS\2000-2099\2096\DWG\2096 CG-101.dwg, 12/10/2015 8:20:49 AM, thor



- SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE STANDARDS APPLY. B. THE CONTRACTOR SHALL ABIDE BY ALL STATE, LOCAL, AND FEDERAL LAWS,
- CODES, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA AND ADA REQUIREMENTS. ALL SUBGRADE, OVEREXCAVATION, BACKFILL, AND FILL SHALL BE PLACED AND /
- OR COMPACTED PER THE GEOTECHNICAL REPORT AND CITY OF ALBUQUERQUE SPECIFICATIONS.
- D. COORDINATE WORK WITH SITE PLAN, PAVING PLAN, DEMOLITION PLAN, AND LANDSCAPE PLAN.
- E. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING OBSTRUCTIONS, AND CONDITION OF ALL EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND VERIFY THE INTENT BEFORE
- CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK.
- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT STRUCTURES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

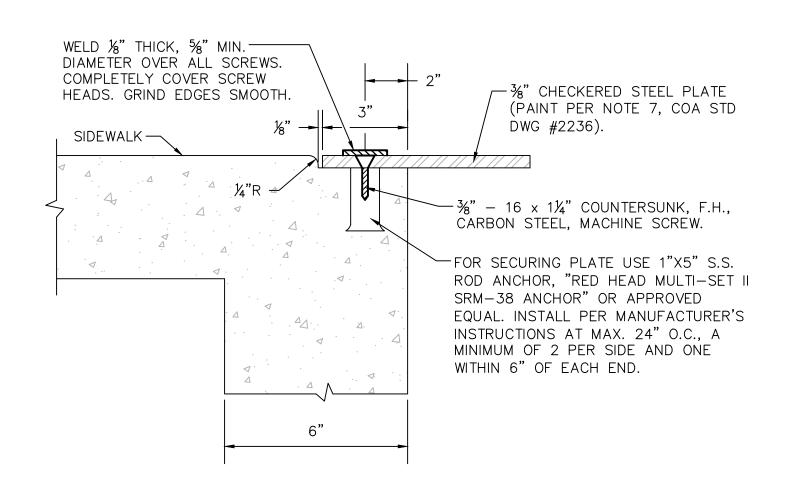
- CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS. EQUIPMENT SHALL ONLY OBSTRUCT DESIGNATED TRAFFIC LANES IF APPROPRIATE BARRICADING PERMITS HAVE BEEN OBTAINED.
- THE CONTRACTOR SHALL MAINTAIN ALL BARRICADING AND CONSTRUCTION SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- PAVEMENT GRADES IN MARKED HANDICAPPED PARKING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. FOR ALL ACCESSIBLE ROUTES, MAXIMUM ALLOWABLE CROSS SLOPE IS 2.0% AND MAXIMUM LONGITUDINAL SLOPE WITHOUT RAMP IS 5.0%. FOLLOW ALL ADA ACCESSIBILITY GUIDELINES OR CITY CODES, WHICHEVER IS MORE STRINGENT.
- K. ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- M. MAXIMUM UNPROTECTED SLOPES SHALL BE 4:1.
- N. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. CONTRACTOR SHALL CONTACT NM-811 FOR UTILITY LINE SPOTS TWO WORKING DAYS PRIOR TO CONDUCTING SITE FIELD WORK.

- CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF NECESSARY DRY UTILITY ADJUSTMENTS.
- O. A CURRENT STORMWATER CONTROL PERMIT, INCLUDING AN EROSION SEDIMENT CONTROL PLAN (E.S.C.) FOR EROSION AND SEDIMENT CONTROL IS REQUIRED FOR ALL CONSTRUCTION, DÉMOLITION CLEARING, AND GRADING OPERATIONS THAT DISTURB THE SOIL ON ONE ACRE OR MORE OF LAND. OWNER WILL COORDINATE.
- P. POST-CONSTRUCTION MAINTENANCE FOR STORMWATER FACILITIES WILL BE THE RESPONSIBLITY OF THE FACILITIES OWNER. PERIODIC INSPECTION AND CERTIFICATIONS OF THE FACILITIES MAY BE REQUIRED BY THE CITY ENGINEER.
- Q. STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN ARE REQUIRED TO PROVIDE MANAGEMENT OF 'FIRST FLUSH' (DEFINED AS THE 90TH PERCENTILE STORM EVENT OR 0.44" OF STORMWATER WHICH DISCHARGES DIRECTLY TO A PUBLIC STORM DRAINAGE SYSTEM).
- R. ADJUST ANY RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES. UTILITIES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.
- S. PAVING AND ROADWAY GRADES SHALL BE ± 0.1 ' FROM PLAN ELEVATIONS.
- WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH.

- U. ALL EROSION PROTECTION TO BE FRACTURED FACE ROCK (F.F. ROCK) DEFINED AS 6" AVG. DIA. ANGULAR FACED ROCK PLACED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.). NOTE: IF OWNER DOES NOT WANT LOOSE ROCK, GROUTED ROCK OR WIRE ENCLOSED ROCK MAY BE SUBSTITUTED AT ALL AREAS
- REFERENCING F.F. ROCK EROSION PROTECTION. OWNER'S OPTION. V. CONTRACTOR SHALL COMPLY WITH LOCAL REGULATIONS FOR RESEEDING OF DISTURBED AREAS. RESEEDING INSPECTION IS NOT INCLUDED AS PART OF
- W. POND AND STORM DRAIN DESIGN PARAMETERS (TOP OF POND, BOTTOM OF POND, RIMS, INVERTS, PIPE SIZES, AREA OF POND, ETC.) TO BE STRICTLY ADHERED TO.

ENGINEER'S CERTIFICATION OF SUBSTANTIAL COMPLIANCE.

- X. ENGINEER RECOMMENDS THAT OWNER MAINTAIN EROSION PROTECTION ELEMENTS. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.
- Y. MEASURES REQUIRED FOR EROSION AND SEDIMENT CONTROL SHALL BE INCIDENTAL TO THE PROJECT COST.



COVERED SIDEWALK CULVERT MODIFIED SECTION B-B FROM C.O.A. STD. DWG. #2236

REQUIRED FIRST FLUSH RETENTION VOLUME = (59547 SF * 0.34" / 12 = 1688 CF

FIRST FLUSH POND #1			
Contour	Area	Volume	
5088.50	1051		
5087.00	30	811 CF	
TOTAL V	OL.	811 CF	

FIRST FLUSH POND #2			
Contour	Area	Volume	
5085.50	445		
5085.00	94	135 CF	
TOTAL VOL.		135 CF	

FIRST FLUSH POND #3		
ntour	Area	Volume
80.30	1965	
79.00	381	1525 CF
OTAL V	OL.	1525 CF

REQUIRED FIRST FLUSH RETENTION POND VOLUME = 1688 CF PROVIDED FIRST FLUSH RETENTION POND VOLUME = 2471 CF

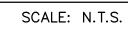
FIRST FLUSH CALCULATIONS

1. EDGES NOT SPECIFICALLY DIMENSIONED SHALL BE SHAPED WITH

GENERAL NOTES

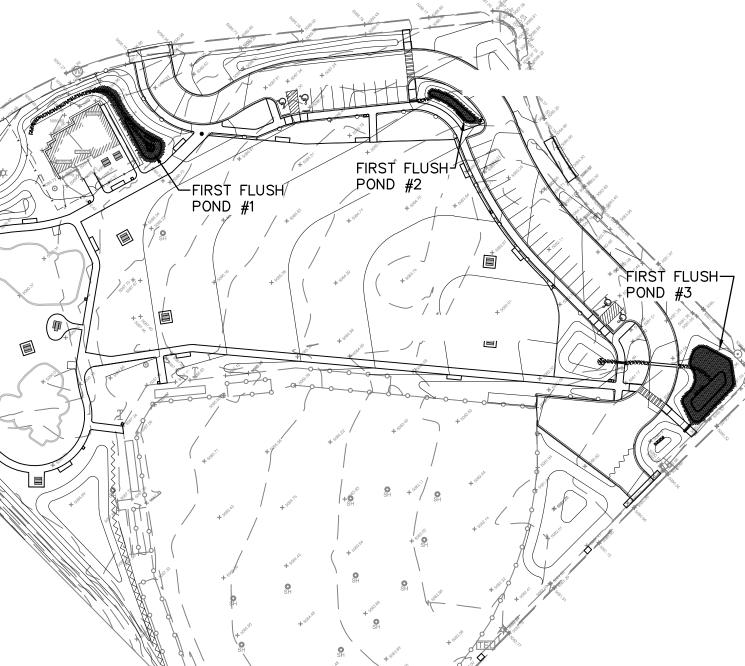
A 3/8" EDGING TOOL.

CURB OPENING



-1/2" EXPANSION JOINT

SCALE: N.T.S.



FIRST FLUSH RETENTION PONDS

of 18

LANDSCAPE ARCHITECTS 505 268 2266

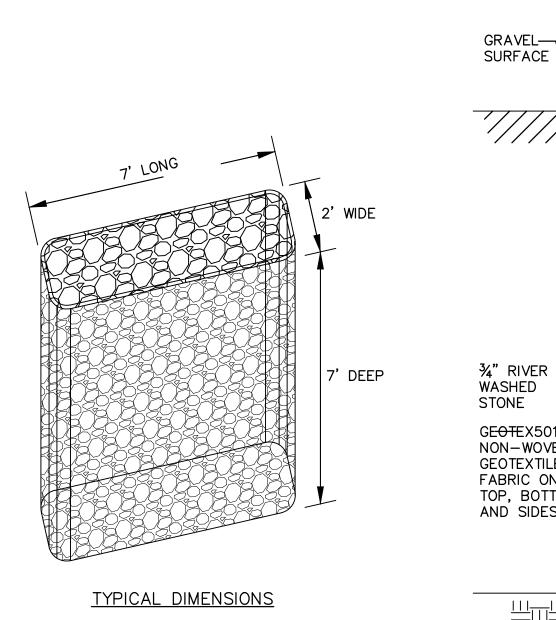
CITY OF ALBUQUERQUE STRATEGIC PLANNING AND DESIGN PARKS AND RECREATION DEPARTMENT

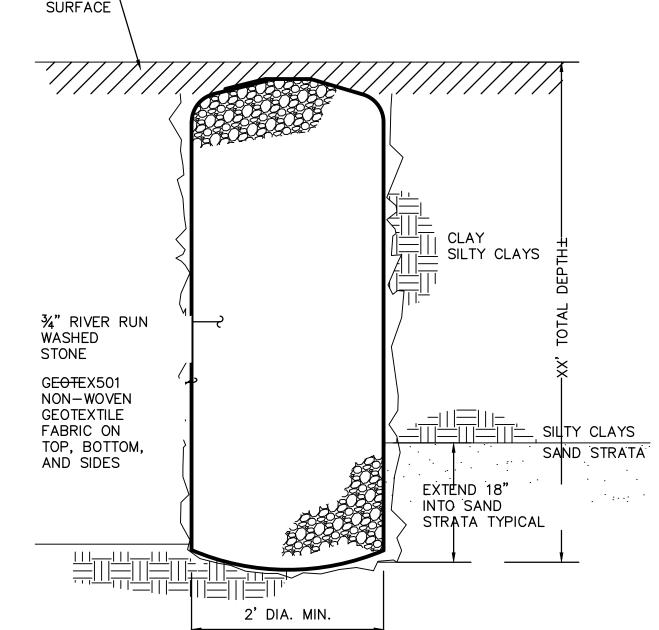
WESTGATE HEIGHTS PARK

GRADING GENERAL NOTES AND DETAILS

128 Monroe Street N.E. Albuquerque, New Mexico 87108

Design Review Committee | City Engineer Approval ISAACSON & ARFMAN, P.A Consulting Engineering Associates Ph. 505-268-8828 www.iacivil.com City Project No. Zone Map No. Dec 09,2015





PERCOLATION TRENCH

LOCATE CLAY LAYER BELOW SURFACE GRADE. MAY VARY BASED ON LOCATION OF INFILTRATION PIT.

SCALE: N.T.S.