CITY OF ALBUQUERQUE



July 28, 2016

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

Re:

Reginald Chavez Elementary School

2700 Mountain Rd NW

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 11/5/2014 (J12D009)

Certification dated: 7-26-16

Dear Mr. Graeme,

PO Box 1293

Based on the Certification received 7/26/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

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

New Mexico 87103 Sincerely,

www.cabq.gov

Rita Harmon, P.E.

Senior Engineer, Planning Dept. Development Review Services

TE/RH

C: email,

Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.;

Lois Blocker

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SCHOOL SITE IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF MOUNTAIN AND MONTOYA ROADS NW. THE SITE IS DEVELOPED AS AN APS ELEMENTARY SCHOOL. THE SURROUNDING AREA IS ALSO DEVELOPED, MAINLY SINGLE FAMILY RESIDENTIAL, MAKING THIS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE CURRENT LEGAL DESCRIPTION IS UNPLATTED LANDS OF THE ALBUQUERQUE PUBLIC SCHOOLS KNOWN AS REGINALD CHAVEZ ELEMENTARY SCHOOL. 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, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. FURTHER REVIEW OF THESE MAPS INDICATES THAT THIS SITE DOES NOT CONTRIBUTE RUNOFF TO A DOWNSTREAM DESIGNATED FLOOD HAZARD ZONE. THE PANEL ALSO IDENTIFIES THAT THE "1% ANNUAL CHANCE OR GREATER FLOOD HAZARD BY A LEVEE SYSTEM OVERTOPPING OR FAILURE OF ANY LEVEE SYSTEM IS POSSIBLE

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS AND ACTIVITIES

- PREDESIGN CONFERENCE RECAP DATED 03-04-2014 CONDUCTED WITH HIGH MESA CONSULTING GROUP. THE RECAP ALLOWED FOR THE CONTINUATION OF FREE DISCHARGE OF DEVELOPED RUNOFF FROM BASIN 'A' TO THE PUBLIC RIGHT-OF-WAY AND MODIFICATIONS TO THE BASIN 'B' POND SHALL MAINTAIN EXISTING VOLUME (V-10 DAY) PLUS ANY INCREASE IN RUNOFF ASSOCIATED WITH THE PROPOSED BUILDING PERMIT IMPROVEMENTS.
- TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 11-07-2013. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.
- MASTER DRAINAGE PLAN (MDP) FOR REGINALD CHAVEZ ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP (NMPE 8547) DATED 09-28-2007. THE MDP ESTABLISHED THE CONCEPT OF FREE DISCHARGE FROM BASIN 'A' TO THE ADJACENT CITY STREETS COMBINED WITH THE ONSITE RETENTION OF RUNOFF FOR BASIN 'B.' THE 2007 MDP ALSO ESTABLISHED THE EXISTING BASIN B RETENTION POND VOLUME IN THE EXISTING CONDITION. CONSTRUCTION PLANS FOR REGINALD CHAVEZ ELEMENTARY SCHOOL PLAYGROUND AND DRAINAGE MODIFICATIONS PREPARED BY HIGH MESA CONSULTING GROUP (NMPE
- 8547) DATED 09-10-2008 AND CERTIFIED 04-24-2009; OF THE FOUR (4) TASKS IDENTIFIED BY THESE REFERENCE CONSTRUCTION PLANS. TASKS 1 AND 2 ARE COMPLETED TASK'3 LIES WITHIN THE FOOTPRINT OF THE NEW BUILDING ADDITION PROPOSED BY THIS SUBMITTAL AND AS SUCH IS NO LONGER APPLICABLE. THE COMPLETION OF TASKS 1 AND 2 WITH THE ASSOCIATED ENGINEER'S DRAINAGE CERTIFICATION INDICATES THAT THERE ARE NO OUTSTANDING DRAINAGE REQUIREMENTS FOR THIS SITE. CONSTRUCTION PLANS FOR REGINALD CHAVEZ PORTABLE CLASSROOM RELOCATIONS PREPARED BY HIGH MESA CONSULTING GROUP (NMPE 8547) DATED 08-04-2014
- THE REFERENCED PLANS DEFINE THE FIRST PHASE OF THIS PHASED PROJECT. IN THE FIRST PHASE, THE EXISTING PORTABLE CLASSROOM BUÍLDINGS WILL BE REMOVED AND RELOCATED IN ADVANCE OF THE PERMANENT BUILDING PROJECT. THE DEMOLITION OF THE EXISTING IMPROVEMENTS WITHIN THE FOOTPRINT OF THE NEW BUILDING WILL BE UNDERTAKEN IN PHASE 1. PHASE 1 WILL ALSO TEMPORARILY RELOCATE THE APS PORTABLE CLASSROOM BUILDINGS. THE YDI PORTABLE BUILDING WILL BE RELOCATED BY SEPARATE PERMIT BY OTHERS (NOT APS) CONCURRENT WITH THE FIRST PHASE OF WORK. THIS PLAN IS APPROVED FOR GRADING, PAVING AND BUILDING PERMIT. A SUPPORTING EROSION AND SEDIMENT CONTROL PLAN (ESCP) IS CURRENTLY UNDER REVIEW.

IV. EXISTING CONDITIONS

THIS SITE IS DEVELOPED AS AN ELEMENTARY SCHOOL OWNED, OPERATED, AND MAINTAINED BY APS. THE SCHOOL SITE CONSISTS OF PERMANENT AND PORTABLE CLASSROOM BUILDINGS, PAVED PARKING AREAS AND WALKWAYS, LANDSCAPING, TURF GRASS FIELD AND OTHER SITE IMPROVEMENTS APPLICABLE TO AN ELEMENTARY SCHOOL SITE. THE SITE IS CHARACTERIZED BY TWO DRAINAGE BASINS, BASINS A AND B. BASIN A DRAINS NORTH TO MOUNTAIN ROAD NW AND EAST TO MONTOYA ROAD NW WHILE BASIN B DRAINS SOUTH AND WEST TO AN ONSITE PRIVATE RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE.

- BASIN A GENERALLY CONSISTS OF THE NORTH PORTION OF THE MAIN OFFICE AND CLASSROOM BUILDINGS (NO. 100 & 200), NORTHWEST AND NORTHEAST PAVED PARKING LOTS, PAVED BUS DROP-OFF LANE, AND MINOR AREAS OF BARE SOIL. THE RUNOFF GENERATED BY THIS BASIN FREELY DISCHARGES NORTH TO MOUNTAIN ROAD NW AND EAST TO MONTOYA ROAD NW. BOTH FULLY DEVELOPED PUBLIC STREETS WITH CURB AND GUTTER AND PERMANENT PAVING. MOUNTAIN ROAD NW DRAINS TO THE EAST AND WEST DUE TO AN EXISTING HIGHPOINT IN THE STREET PROFILE. MOUNTAIN ROAD NW IS SERVED BY A PUBLIC STORM DRAIN SYSTEM WITH STREET RUNOFF COLLECTED VIA CURB INLETS. MONTOYA ROAD NW DRAINS TO THE NORTH, WHERE RUNOFF IS ALSO COLLECTED VIA CURB INLETS INTO THE PUBLIC STORM DRAIN SYSTEM.
- BASIN B IS COMPRISED OF THE CENTRAL AND SOUTH HALF OF THE SITE CONSISTING OF THE SOUTH PORTION OF THE MAIN OFFICE AND CLASSROOM BUILDINGS (NO. 200, 300, & 400), PORTABLE BUILDINGS, PAVED WALKWAYS, LANDSCAPING, PLAY AREAS, BARE SOIL PLAY AREAS AND A TURF GRASS FIELD AT THE SOUTHWEST CORNER OF THE THIS PORTION OF THE SITE GENERALLY DRAINS TO THE SOUTH AND WEST WHERE RUNOFF IS CAPTURED WITHIN AN EXISTING ONSITE PRIVATE RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE. THE EXISTING POND RETAINS IN EXCESS OF THE V-10 DAY RUNOFF VOLUME AS ESTABLISHED BY THE 2007 MDP, THERE ARE NEGLIGIBLE OFFSITE FLOWS DISCHARGING ONTO THE SITE FROM THE ADJACENT RESIDENTIAL LOTS TO THE SOUTH AND EAST OF THE SCHOOL SITE.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF A NEW CLASSROOM BUILDING WITH ASSOCIATED SITE WORK IN BOTH DRAINAGE BASINS A AND B. UPON COMPLETION OF THE NEW CLASSROOM BUILDING, TWO SMALLER EXISTING CLASSROOM BUILDINGS, 300 & 400, WILL BE REMOVED (DEMOLISHED). IN ADDITION TO SITE WORK ASSOCIATED WITH THE NEW BUILDING, SITE WORK WILL ALSO INCLUDE REGRADING AND LANDSCAPING THE EXISTING POND IN BASIN B. THE MAJORITY OF THE PROPOSED CONSTRUCTION WILL OCCUR IN

THE PROPOSED WORK WITHIN BASIN A WILL BE LIMITED. THE NORTH END OF THE NEW BUILDING, THE LIBRARY, WILL GENERATE ROOF RUNOFF THAT WILL DISCHARGE INTO THE NORTHWEST PARKING LOT WHERE IT WILL BE ROUTED THROUGH AN EXISTING WATER HARVESTING POND PRIOR TO DISCHARGE NORTH INTO MOUNTAIN ROAD NW. THIS PORTION OF THE PROJECT IS NOT ANTICIPATED TO GENERATE A SIGNIFICANT INCREASE IN THE PEAK DISCHARGE OF RUNOFF TO MOUNTAIN ROAD NW. IN ADDITION, THE RUNOFF WILL ROUTE THROUGH AN EXISTING WATER HARVESTING POND.

THE MAJORITY OF THE PROPOSED CONSTRUCTION WILL OCCUR WITHIN BASIN B CONSISTING OF THE CLASSROOM PORTION OF THE NEW BUILDING, FIRE TRUCK ACCESS, COURTYARD AND PLAYGROUND IMPROVEMENTS, RELOCATED BASKETBALL COURTS, AND MODIFICATIONS TO THE EXISTING POND. THE SOUTH END OF THE NEW CLASSROOM WING ENCROACHES INTO THE V-10 DAY POND LIMITS. IN RESPONSE, A PORTION OF THE EXISTING POND WILL BE REGRADED BY FILL. RUNOFF FROM THE EXISTING ONSITE PRIVATE STORM DRAIN WILL BE PIPED AROUND THE SOUTH END OF THE NEW BUILDING TO THE WEST END OF THE EXISTING POND. THE WEST END OF THE EXISTING POND WILL BE DEEPENED TO COMPENSATE FOR THE DISPLACED VOLUMES AND TO ENSURE THE V-10 DAY RUNOFF REMAINS CONTAINED ON THE SITE. ROOF RUNOFF FROM THE NEW CLASSROOM WING WILL BE COLLECTED VIA ROOF DRAINS AND DIRECTED VIA PRIVATE STORM DRAIN TO THE ONSITE PRIVATE RETENTION POND. UPON COMPLETION OF THE NEW BUILDING TWO EXISTING CLASSROOM BUILDINGS, SOUTH OF THE MAIN OFFICE & CLASSROOM BUILDING, WILL BE REMOVED. THE OLD BUILDING FOOTPRINTS WILL BE REPLACED WITH TREE WELLS AND PERVIOUS PAVING. THE BASKETBALL COURTS WILL ALSO BE RELOCATED AND RECONSTRUCTED AT THE EAST EDGE OF THE CHOOL SITE WITH THE EXISTING PLAYGROUND. THIS AREA WILL ALSO SURFACE DRAIN TO THE ONSITE PRIVATE RETENTION POND. IN ADDITION TO SITE LANDSCAPING, THE

DEVELOPED POND WILL BE LANDSCAPED. IT WILL ALSO BE FENCED AS IT WILL BE DEEPER THAN 18 INCHES. THE NEGLIGIBLE OFFSITE FLOWS ENTERING THE SITE FROM THE ADJACENT RESIDENTIAL PROPERTIES WILL NOT BE BLOCKED AND WILL CONTINUE TO BE ACCEPTED AND CONVEYED THROUGH THE SITE AS IN THE EXISTING CONDITION.

VI. PHASING

THIS PROJECT WILL BE CONSTRUCTED IN PHASES AS FOLLOWS:

PHASE 1: REMOVE AND RELOCATE EXISTING PORTABLE CLASSROOM BUILDINGS INCLUDING THE DEMOLITION OF THE EXISTING IMPROVEMENTS WITHIN THE FOOTPRINT OF THE PROPOSED PERMANENT BUILDING. THE APS PORTABLE CLASSROOM BUILDINGS WILL TEMPORARILY BE LOCATED TO THE IMMEDIATE WEST OF THE NEW BUILDING IN THE PROXIMITY OF THE EXISTING BASKETBALL COURTS.

PHASE 2A: CONSTRUCT NEW PERMANENT CLASSROOM BUILDING.

PHASE 2B: DEMOLISH EXISTING BUILDINGS 300 AND 400 AND CONSTRUCT NEW COURTYARD IMPROVEMENTS

PHASE 2C: REMOVE EXISTING APS PORTABLE CLASSROOM BUILDINGS FROM SITE

PHASE 2D: CONSTRUCT NEW PLAYGROUND IMPROVEMENTS FOR THE YDI PROGRAM (PORTABLE TO REMAIN) AND THE APS KINDERGARTEN CLASSROOMS (NEW BUILDING) PHASE 3: RELOCATE PORTABLE BUILDINGS FOR AFTER SCHOOL PROGRAMS TO EAST SIDE OF CAMPUS. THIS WILL COVERED BY SEPARATE PERMIT AND HENCE SEPARATE SUBMITTAL.

VI. GRADING PLAN

THE GRADING PLAN SHOWS THE 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE LIMITS OF BASIN A WILL DECREASE SLIGHTLY IN RESPONSE TO THE NEW CLASSROOM BUILDING ROOF DRAINAGE. THE MAJORITY OF THE SITE AND THIS PROJECT LIES WITHIN BASIN B. THE DEVELOPED RUNOFF IN BASIN B ASSOCIATED WITH THE NEW CLASSROOM BUILDING, FIRE LANE DRIVE, PERVIOUS PAVING IMPROVEMENTS, RELOCATED AND RECONSTRUCTED BASKETBALL COURTS WILL CONTINUE TO DRAIN TO AND BE CONTAINED WITHIN THE EXISTING RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE.

VII. EROSION & SEDIMENT CONTROL AND LOW IMPACT DEVELOPMENT

DURING THE DEMOLITION, BUILDING, AND SITE CONSTRUCTION PHASES, BEST MANAGEMENT PRACTICES (BMPS) WILL BE IMPLEMENTED AND MAINTAINED FOR THE ENTIRE SITE UNTIL FINAL STABILIZATION MEASURES ARE INSTALLED. PREVENTION OF SEDIMENT DISCHARGE INTO THE PUBLIC RIGHT OF WAY AND/OR DOWNSTREAM INTO THE EXISTING STORM DRAIN SYSTEM IS REQUIRED BY THE CONSTRUCTION GENERAL PERMIT. A COMBINATION OF COMMON BMPS WILL PREVENT SEDIMENT DISCHARGE FROM THE SITE; SUCH AS: STABILIZED CONSTRUCTION ENTRANCE, STRAW WATTLES, PERIMETER SILT FENCE, AND SEDIMENT DETENTION PONDING. PERMANENT STABILIZATION WILL BE ACHIEVED BY MEANS OF PERVIOUS AND IMPERVIOUS PAVING, NEW CLASSROOM BUILDING, LANDSCAPING (GRAVEL MULCH & PLANTINGS), AND SEDIMENT DETENTION PONDING WITHIN ONSITE PONDS. BASIN A INCLUDES AN EXISTING WATER HARVESTING AREA THAT WILL REMAIN. BASIN B INCLUDES AN ONSITE PRIVATE RETENTION POND THAT WILL BE DEEPENED AND IMPROVED IN

LOW IMPACT DEVELOPMENT IN BASIN A WILL BE ACHIEVED DUE TO THE MINOR DEVELOPMENT IT WILL RECEIVE. A SMALL VOLUME OF ROOF RUNOFF WILL DISCHARGE TO AN EXISTING SIDEWALK CULVERT AND COLLECT INTO AN EXISTING WATER HARVESTING POND. THE MAJORITY OF THE SUSPENDED SOLIDS WILL SETTLE BEFORE DISCHARGING INTO MOUNTAIN ROAD NW. THE LOW IMPACT NATURE OF BASIN B WILL BE MAINTAINED WHERE RUNOFF COLLECTS AND IS RETAINED IN THE EXISTING RETENTION POND. NEW PERVIOUS PAVING AND NEW LANDSCAPING WILL ALLOW RAINFALL TO INFILTRATE WITHIN THE SITE WHILE THE REMAINING RUNOFF WILL CONTINUE TO BE COLLECTED AND RETAINED WITHIN THE MODIFIED RETENTION POND.

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 IMPROVEMENTS WILL RESULT IN AN INCREASE IN DEVELOPED RUNOFF GENERATED BY BASIN A, AND AN INCREASE IN THE DEVELOPED RUNOFF GENERATED BY BASIN B OF THE REGINALD CHAVEZ SCHOOL SITE. IN ADDITION, THE FIRST FLUSH WILL BE 100% RETAINED ONSITE IN THE DEVELOPED REGINALD CHAVEZ SCHOOL SITE WITHIN THEIR RESPECTIVE BASINS A & B. THE VOLUME OF THE EXISTING WATER HARVESTING POND IN BASIN A PROVIDES ADEQUATE CAPACITY TO RETAIN THE FIRST FLUSH RUNOFF GENERATED BY THE DEVELOPED BASIN A. SIMILARLY, THE REGRADED RETENTION POND WITHIN BASIN B WILL PROVIDE MORE THAN ENOUGH CAPACITY REQUIRED TO RETAIN THE FIRST FLUSH RUNOFF

IX. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED HEREIN: THE PROPOSED IMPROVEMENTS REPRESENT THE MODIFICATION OF AN EXISTING SITE WITHIN AN INFILL AREA.

- THE PROPOSED IMPROVEMENTS WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE SITE AND BE CONSISTENT WITH THE APPROVED MASTER DRAINAGE PLAN.
- THE PROPOSED IMPROVEMENTS WILL COMPLEMENT THE PORTABLE CLASSROOM RELOCATION PROJECT THAT WILL PRECEDE THE BUILDING PERMIT FOR THE PERMANENT BUILDING CONSTRUCTION AND IMPROVEMENTS PROPOSED HEREIN.
- THE FREE DISCHARGE OF DEVELOPED RUNOFF FROM BASIN A TO THE ADJACENT CITY STREETS IS CONSISTENT WITH THE MASTER DRAINAGE PLAN FOR THE SCHOOL SITE.
- THE PROPOSED IMPROVEMENTS WILL HAVE A MINOR INCREASE IN THE DEVELOPED RUNOFF, FREELY DISCHARGING TO MOUNTAIN ROAD NW, GENERATED BY BASIN A. THIS RUNOFF. HOWEVER. WILL BE ROUTED THROUGH AN EXISTING WATER HARVESTING AREA THAT WILL MITIGATE THE MINOR INCREASE.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR INCREASE IN THE DEVELOPED RUNOFF GENERATED FOR BASIN B; THIS INCREASE WILL BE MITIGATED VIA THE INCREASED STORAGE CAPACITY OF THE ONSITE RETENTION POND. THE PROPOSED IMPROVEMENTS WILL ENCROACH UPON THE EXISTING ONSITE PRIVATE RETENTION POND. CAPACITY OF THE POND, HOWEVER, WILL BE PRESERVED BY

REGRADING AND DEEPENING THE POND TO PROVIDE FOR ADEQUATE STORAGE VOLUME. THE DEEPER PORTIONS OF THE EXISTING POND WILL BE FENCED TO RESTRICT PUBLIC

- 8. THE V-10 DAY RUNOFF VOLUME WILL CONTINUE TO BE CONTAINED ON SITE IN BASIN B, CONSISTENT WITH THE MASTER DRAINAGE PLAN. 9. A GRAVEL INFILTRATION TRENCH WILL BE CONSTRUCTED AT THE BOTTOM OF THE ONSITE PRIVATE RETENTION POND IN BASIN B TO PROMOTE INFILTRATION.
- 10. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS 11. THE PROPOSED IMPROVEMENTS WILL NOT BLOCK OFFSITE FLOWS.
- 12. THE FIRST FLUSH RUNOFF IN THE DEVELOPED PORTIONS OF BASINS A & B WILL BE CAPTURED AND MANAGED

CALCULATIONS

I. SITE CHARACTERISTICS A. PRECIPITATION ZONE = 2.35 IN B. $P_{100.6 \text{ HR}} = P_{360 \text{ MIN}} =$ $P_{100, 10DAY} = P_{10 DAY} =$ 3.95 IN 2.75 IN $P_{1440 \text{ MIN}} =$

C. LAND TREATMENTS & AREAS 1. TOTAL PROJECT AREA (A_T) = 390,300 SF (8.96 AC)

a. EXISTING LAND TREATMENT (FROM 2007 APPROVED MASTER DRAINAGE PLAN i. BASIN'A' AREA (SF/AC) TREATMEN⁻ 0 / 0.00

5,982 / 0.14 17,780 / 0.41 86,880 / 1.99 TOTAL 110,642 / 2.54 ii. BASIN 'B' TREATMENT AREA (SF/AC) 0 / 0.00

61,420 / 1.41

100

135,472 / 3.11 82,764 / 1.90 TOTAL 279,656 / 6.42

100 b. DEVELOPED LAND TREATMENT i. BASIN'A' AREA (SF/AC) TREATMENT 0 / 0.00 0 / 0.00 18,644 / 0.43 85,480 / 1.96 104,124 / 2.39

ii. BASIN 'B' AREA (SF/AC) TREATMENT 0 / 0.00 61,420 / 1.41 115,990 / 2.66 106,670 / 2.45 284,080 / 6.52

II. HYDROLOGY A. EXISTING CONDITION (FROM 2007 APPROVED MDP)

1. BASIN'A'

a. VOLUME

 $E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D})/A_{T}$

(0.53*0.00) + (0.78*0.14) + (1.13*0.41) + (2.12*1.99)/2.54 =1.89 IN 0.4000 AC-FT = 17,430 CF $V_{100.6 \text{ HR}} = (E_W/12)A_T =$ (1.89/12)2.54 =b. PEAK DISCHARGE

 $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$

 $Q_P = Q_{100} = (1.56*0.00) + (2.28*0.14) + (3.14*0.41) + (4.70*1.99) =$ 11.0 CFS c. WATER HARVESTING (AVERAGE END AREA METHOD)

AREA (SF) VOL (CF) Σ VOL (CF) 4956

 V_{WH} = 190 CF = 0.0043 AC-FT

2. BASIN 'B' a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

(0.53*0.00) + (0.78*1.41) + (1.13*3.11) + (2.12*1.90)/6.42 =1.35 IN $V_{100.6 \text{ HR}} = (E_W/12)A_T =$ (1.35/12)6.42 =0.7223 AC-FT = 31,460 CF

 $V_{10-DAY} = V_{100.6 HR} + A_D(P_{10} - P_{360})/12$ $V_{10-DAY} = 0.7223 + 1.90 * (3.95 - 2.35)/12 =$

0.9756 AC-FT = 42,500 CFb. PEAK DISCHARGE

 $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$

19,480

 $Q_P = Q_{100} = (1.56*0.00) + (2.28*1.41) + (3.14*3.11) + (4.70*1.90) =$

c. RETENTION POND (AVERAGE END AREA METHOD) AREA (SF) VOL (CF) ΣVOL (CF) 4,775 4775 8,370 13,925

4956 $V_{@4956}$ = 55,210 CF = 1.27 AC-FT > V_{10-DAY} = 42,500 CF : V_{10-DAY} WSL BETWEEN 4955 AND 4956; LET V_{10-DAY} WSL = 4955.5

B. <u>DEVELOPED CONDITION</u>

1. BASIN 'A' a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

(0.53*0.00) + (0.78*0.00) + (1.13*0.43) + (2.12*1.96)/2.39 =1.94 IN 0.3864 AC-FT = 16,830 CF $V_{100,6 HR} = (E_W/12)A_T =$ (1.94/12)2.39 =b. PEAK DISCHARGE

 $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$ $Q_P = Q_{100} = (1.56*0.00) + (2.28*0.00) + (3.14*0.43) + (4.70*1.96) =$ 10.6 CFS

c. WATER HARVESTING - NO CHANGE

d. FIRST FLUSH (REQ'D FOR INCREASED IMPERVIOUS AREA)

 $E_W = (E_{FF}A_D)/A_D$ $E_{FF} = 0.44 \text{ IN}$

 $A_D = A_{D, DEV} - A_{D, EXIST} = 1.96 AC - 1.99 AC$

 $A_D = -0.03 \text{ AC} = \text{DECREASE IN IMPERVIOUS AREA}$ THEREFORE; NO FIRST FLUSH CALCULATIONS ARE REQ'D

2. BASIN 'B' a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$

(0.53*0.00) + (0.78*1.41) + (1.13*2.66) + (2.12*2.45)/6.52 = $V_{100.6 \text{ HR}} = (E_W/12)A_T =$ (1.43/12)6.52 =0.7772 AC-FT = 33,850 CF

 $V_{10-DAY} = V_{100, 6HR} + A_D(P_{10} - P_{360})/12$ $V_{10-DAY} = 0.7772 + 2.45 * (3.95 - 2.35)/12 =$

1.1037 AC-FT = 48,080 CFb. PEAK DISCHARGE

 $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = (1.56*0.00) + (2.28*1.41) + (3.14*2.66) + (4.70*2.45) =$

c. RETENTION POND (AVERAGE END AREA METHOD) ELEV AREA (SF) VOL (CF) ΣVOL (CF) 4951 2,560 3,350 3.350 4,140 5,030 5,920 7.910 9,900 13,125 29,415 16,350 27,825 57,240 39,300 $V_{@4956} = 57,240 \text{ CF} >> V_{10-DAY} = 46,730 \text{ CF} : OK$ d. FIRST FLUSH (REQ'D FOR INCREASED IMPERVIOUS AREA) $E_W = (E_{FF}A_D)/A_D$ $E_{FF} = 0.44 IN$ $A_D = A_{D.DEV} - A_{D.EXIST} = 2.45 AC - 1.90 AC$ $A_D = 0.55 AC = INCREASE IN IMPERVIOUS AREA$ $E_{W} = (0.44*0.55)/0.55 =$ 0.44 IN $V_{FF} = (E_W/12)A_T =$ 0.0202 AC-FT =880 CF (0.44/12)0.55 = $V_{FF} = 880 \text{ CF} < V_{@4956} = 57,240 \text{ CF} : OK$ C. COMPARISON 1. BASIN 'A' a. VOLUME (V_{DEV} - V_{EXIST} - V_{WH}) $\Delta V_{100-6 \text{ HR}} = 16,830 - 17,430 - 190 =$ -790 CF (DECREASE) b. PEAK DISCHARGE (PDEV - PEXIST) $\Delta Q_{100} = 10.6 - 11.0 =$ -0.4 CFS (DECREASE)

c. FIRST FLUSH (V_{FF} vs V_{WH}) NO FIRST FLUSH CALCULATIONS AS IMPERVIOUS AREA IN BASIN DECREASED

2. BASIN 'B' a. Δ VOLUME GENERATED (V_{DEV} - V_{EXIST}) $\Delta V_{100-6 \text{ HR}} = 33,850 - 31,460 =$ 2,390 CF (INCREASE)

 $\Delta V_{10 DAY} = 48,080 - 42,500 =$ 5,580 CF (INCREASE) b. DEVELOPED VOLUME GENERATED vs PONDING (RETENTION @ WSL = 4956) $V_{DEV 100, 6HR} = 33,850 \text{ CF} < V_{@4956} = 57,240 \text{ CF} : OK$ $V_{DEV 10 DAY} = 48,080 CF < V_{@4956} = 57,240 CF : OK$

c. PEAK DISCHARGE (PDEV - PEXIST) 1.2 CFS (INCREASE) $\Delta Q_{100} = 23.1 - 21.9 =$

d. FIRST FLUSH (V_{FF} vs V_{@4956}) V_{FF} = 880 CF < V_{@4956} = 57,240 CF : FIRST FLUSH RETAINED IN RETENTION POND

LEGEND

ARD

ASPH

CCND

CCW

CP0

CRS

CRW

ECAB

MHR

OVERHEAD ELECTRIC PAINTED FOUR SQUARE OHE(1) ASPHALT RAMP # OF LINES) ÖVERHEAD UTILITY MAST ASPHALT RUNDOWN OVERHEAD WALL ASPHAL 1 ANTI-SIPHON VALVE OVERHEAD WATER LINE BASKETBALL GOAL CONCRETE WHEEL STOP BUILDING OVERHANG PLAYGROUND FQUIPMEN BICYCLE RACK UTILITY PAINT MARK ATHLETIC BACKSTOF PAINTED PARKING STRIPE CURB AND GUTTER PICNIC TABLE COMMUNICATION LINE POLYVINYL CHLORIDE PIPE BY PAINT MARK REINFORCED CONCRETE PIPE COMMUNICATION CABINE ROOF DRAIN COMMUNICATION CONDUIT ROOF DRAIN TO CONCRETE CONTAINMENT WALL UNDFRGROUND CONCRETE DRIVE PAD REFUSE ENCLOSUR LANDSCAPING CRUSHER FINES ROW ROW OF CONCRETE CONCRETE HEADER CURB WHEEL STOPS CONCRETE HEAD WALL RIP-RAP LANDSCAPING RAILROAD TIES CAST IRON PIPE CENTERLINE DOOR SANITARY SEWER CENTERLINE DOUBLE DOOR SANITARY SEWER LINE CHAIN LINK FENCE COMMUNICATION RISER PAINTED STOP BAR CONCRETE BLOCK WALI STEEL COVER ELECTRIC CONDUIT STORM DRAIN STORM DRAIN/FRENCH DRAIN CI FANOUT CONCRETE STORM DRAIN LINE CURB OPENING BY PAINT MARK STORM DRAIN INLET CONCRETE PIPE COMMUNICATION PULLBOX SERVICE DROP POLE COMMUNICATION PANEL ELECTRIC SWITCH GEAR COMMUNICATION POLE STEEL GUARD POST CONCRETE PLANTER WALL TRAFFIC SIGNAL CONCRETE RAMP FLASHING BEACONS) STANDARD BUILDING CRAWL SPACE CONCRETE RETAINING WALL STW STUCCO WALL CONCRETE SIDEWALK CONCRETE STEPS CONCRETE SPLASH PAD SIDEWALK CULVERT CONCRETE SIDEWALK PAINTED SOLID WHITE STRIPE COVERED CONCRETE TOP OF ASPHALT CONCRETE WALL TOP OF CURB TOP OF CONCRETE DOUBLE CLEANOUT CONCRETE TURNDOWN SIDEWALK DOUBLE PIPE GATI CONCRETE DUMPSTER PAD TOP OF GRATE **ELECTRIC TRANSFORMER** PAINTED DOUBLE YELLOW STRIPE FLECTRIC LINE BY TRAFFIC SIGN TOP OF WALL ⊃AINT MARK ELECTRIC LINE BY UNKNOWN VITRIFIED CLAY PIPE SOURCE PAINT MARK EDGE OF ASPHALT CONCRETE VALLEY GUTTER VENT PIPE

WATER LINE BY PAINT MARK FLECTRIC METER LECTRIC OUTLET CONCRETE WHEELCHAIR RAMP ELECTRIC PANEL DRINKING FOUNTAIN WATER HOT BOX FLECTRIC PULLBOX FIRE HYDRANT WATER LINE FLOWLINE WATER LINE FROM FLAG POLF RECORD DRAWING FROM RECORD DRAWING WATER LINE PAINT MARK GAS LINE BY PAINT MARK FROM UNKNOWN SOURCE GUY WIRE ANCHOR WATER METER BOX GAS MFTFR WOOD POLE WOOD POWER POL GUARD POST GRATED RIM WOOD POWER POL GREASE TRAP WITH STREET LIGHT WOOD SHED

G/PM GAS SERVICE GTS GATE STOP POST HANDICAPPED PARKING SIGN HCP HOP PAINTED HOPSCOTCH HOT WATER LINE HOT WATER RETURN LINE HWR IRRIGATION CONTROL TIMER PIPE INVERT IRRIGATION VALVE BOX KSW KEYSTONE BLOCK WALL PLASTIC LANDSCAPE DIVIDER METAL BUILDING COLUMN MFTFR CAN WITH LINE METER CAN WITH VALVE MANHOI F

> MOUNTABLE METAL RAMP

METAL STEPS

METAL STEPS

(# OF LINES)

METAL TRASH CAN

OVERHEAD COMMUNICATION

METAL HAND RAIL METAL LANDING METAL LIGHT POLE ON CONCRETE BASE

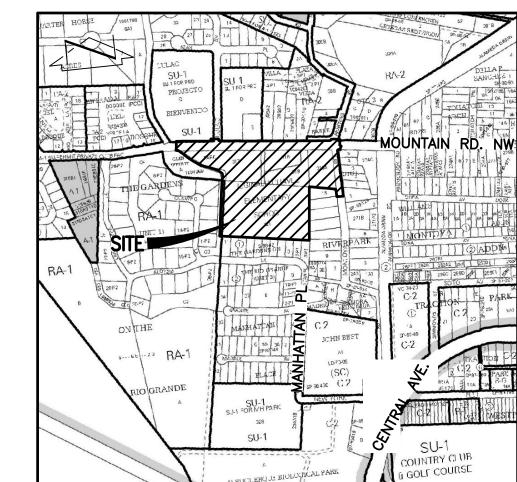
PAINTED UTILITY MARKER 0.5'ø TREE TRUNK DIAMETER DECIDUOUS TREE SMALL DECIDUOUS TREE SMALL GROUP OF TREES \circ SHRUB \bigcirc

SMALL SHRUB LANDSCAPING BOULDER TREE STUMP

WATER VALVE BOX

PAINTED CROSSWALK

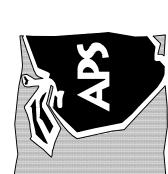
HANDICAPPED PARKING SPACE



CHERRY/SEE/REAMES ARCHITECTS, PC 220 gold avenue sw albuquerque, nm 8710 Consulting Group 6010-B MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 8710 PHONE: 505.345.4250 FAX: 505.345.425

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0 മ



/1\ OT/16 RECORD DWG.

ISSUE:

DWG FILE:

RAWN BY:

CHECKED BY:

DATE DESCRIPTION

MANAGEMENT BLOCK

PROJECT NO: REGINALD CHAVEZ

COPYRIGHT: Cherry/See/Reames PC

ELEVATION = 4957.53 FEET (NAVD 88)TEMPORARY BENCHMARK #2 (T.B.M.

LEGAL DESCRIPTION

BENCHMARKS

PROJECT BENCHMARK

SHOWN ON SHEET C-102.

UNPLATTED LANDS OF ALBUQUERQUE PUBLIC SCHOOLS

ACS 3 1/4" ALUMINUM CAP STAMPED, "13-J12, 1989"

NORTHEAST QUADRANT OF THE INTERSECTION OF NEW

A MAG NAIL W/WASHER IN THE CONCRETE SIDEWALK

ON THE NORTH SIDE OF MOUNTAIN ROAD N.W., AS

RIVETED TO A PIPE 0.2' ABOVE GROUND, IN THE

YORK AVENUE N.W. AND CENTRAL AVENUE.

ELEVATION = 4955.431 FEET (NAVD 88)

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

KNOWN AS REGINALD CHAVEZ ELEMENTARY SCHOOL.

A MAG NAIL W/WASHER IN THE CONCRETE SIDEWALK AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF MOUNTAIN ROAD AND MONTOYA ROAD N.W., AS SHOWN ON SHEET C-102. ELEVATION = 4957.17 FEET (NAVD 88)

PANEL 331

DATED: 08-16-2012

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

A #5 REBAR W/CAP STAMPED "HMCG CONTROL NMPS 11184" AT THE EASTERN EDGE OF A GRASS FIELD, AS SHOWN ON SHEET C-103. ELEVATION = 4957.44 FEET (NAVD 88)

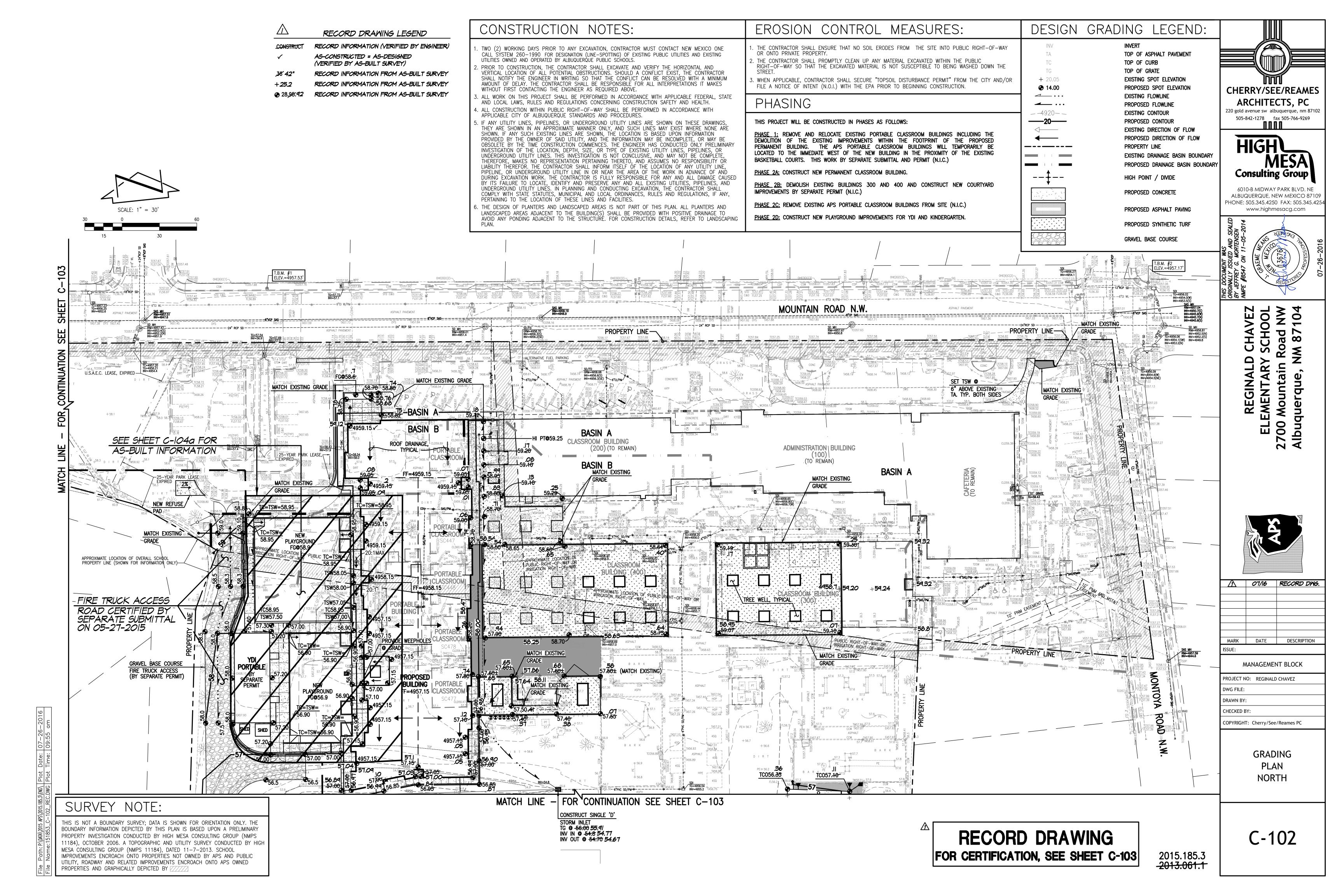
HYDROLOGY FILE # J12/D009

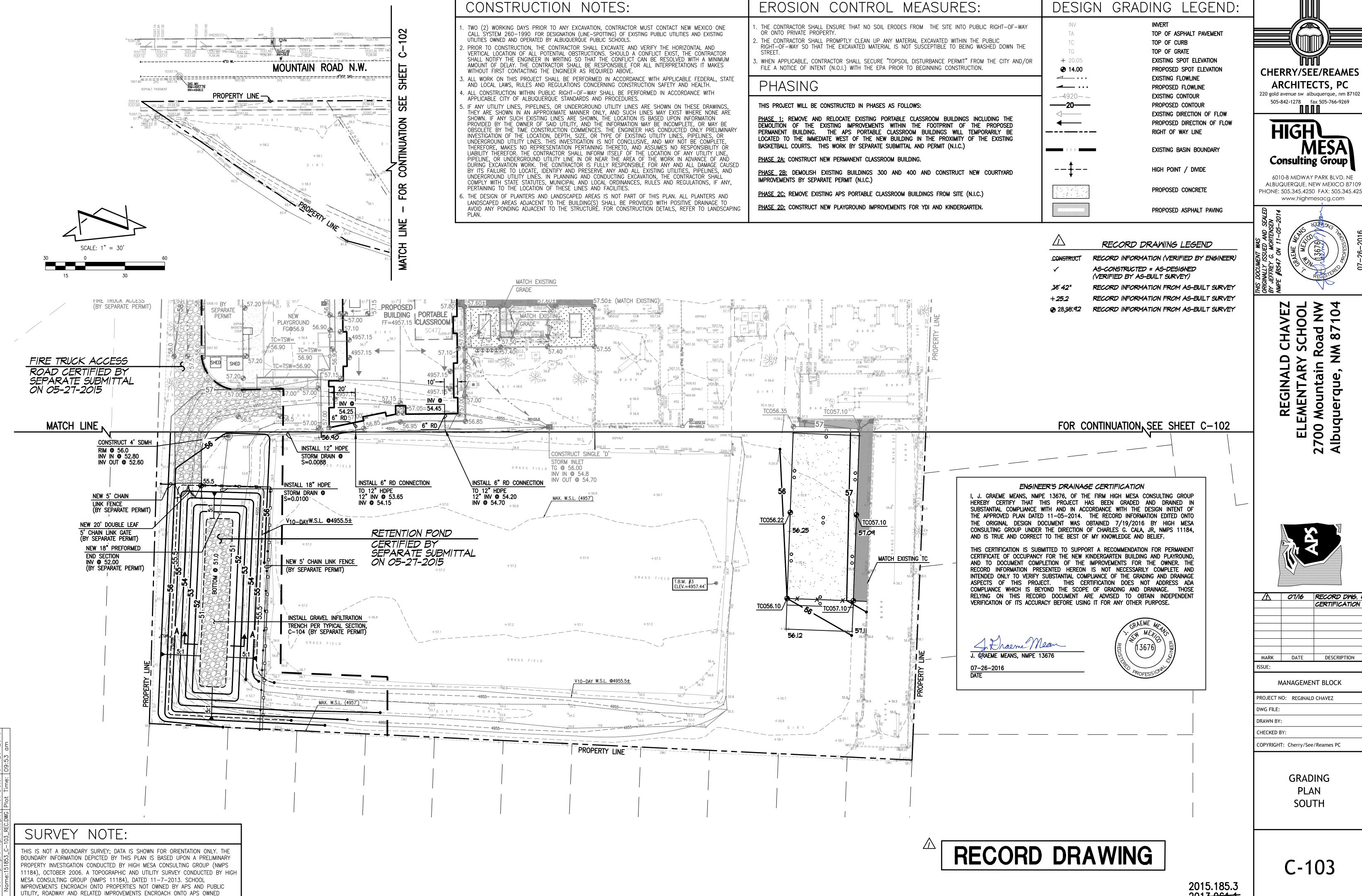
RECORD DRAWING FOR CERTIFICATION, SEE SHEET C-103

2015.185.3

DRAINAGE PLAN **CALCULATIONS**

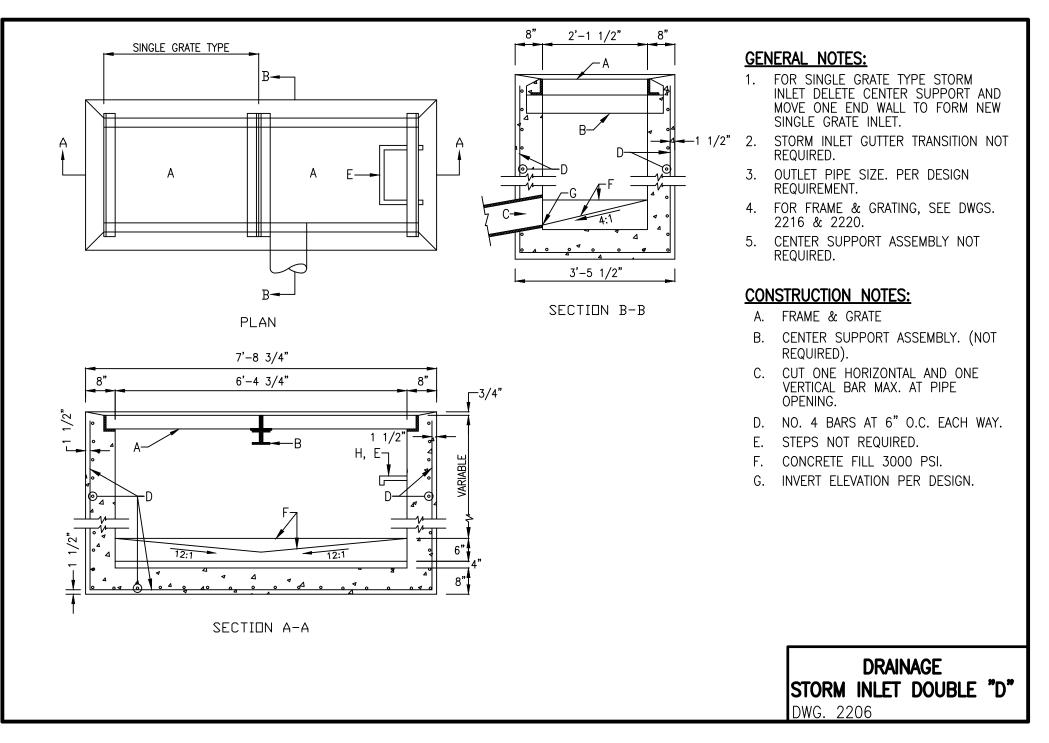
C-101

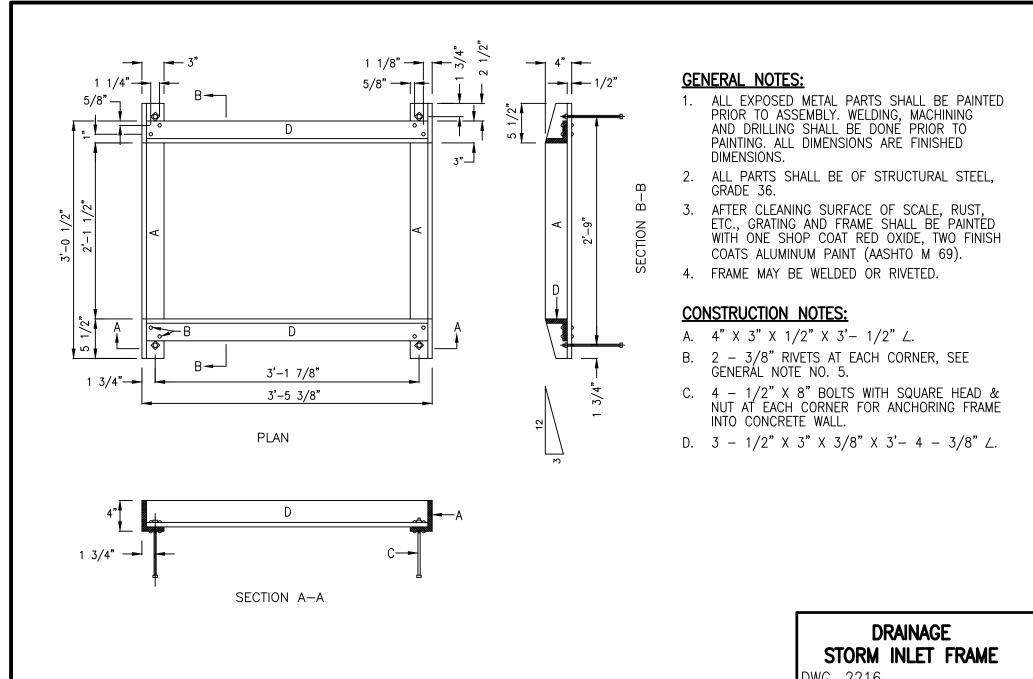


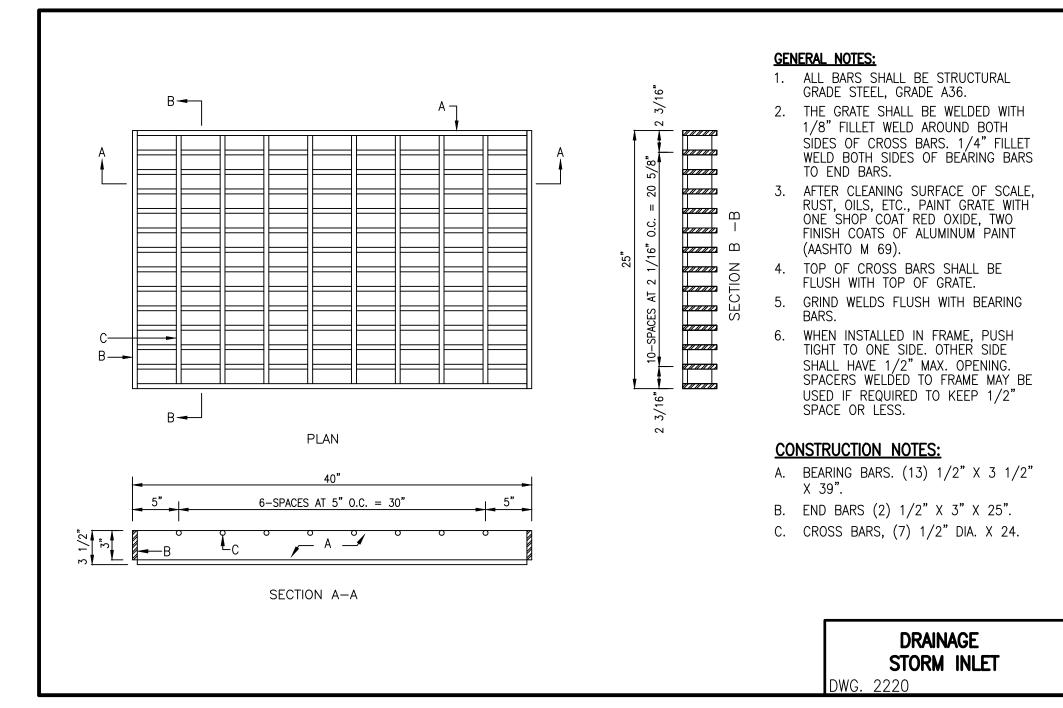


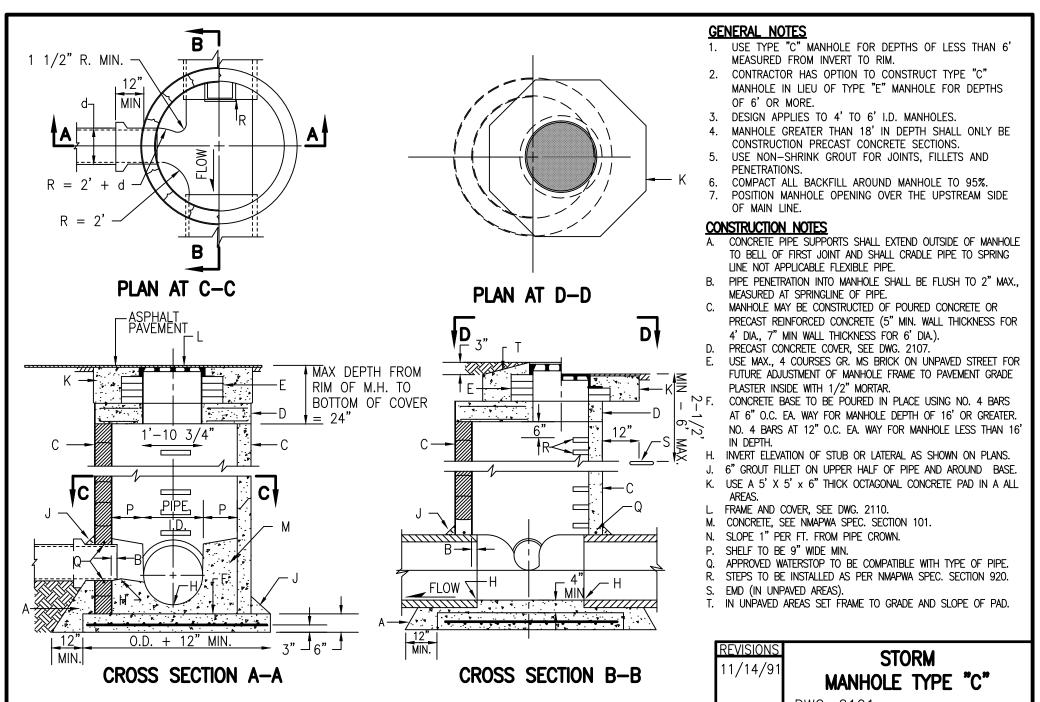
PROPERTIES AND GRAPHICALLY DEPICTED BY [/////

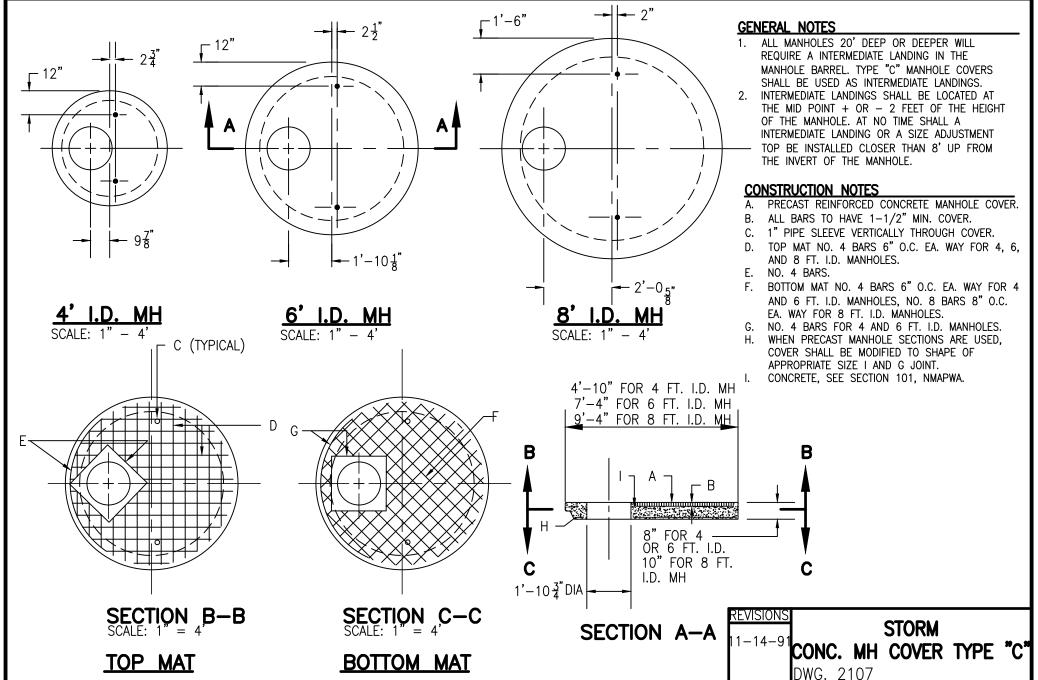
2013.061.1

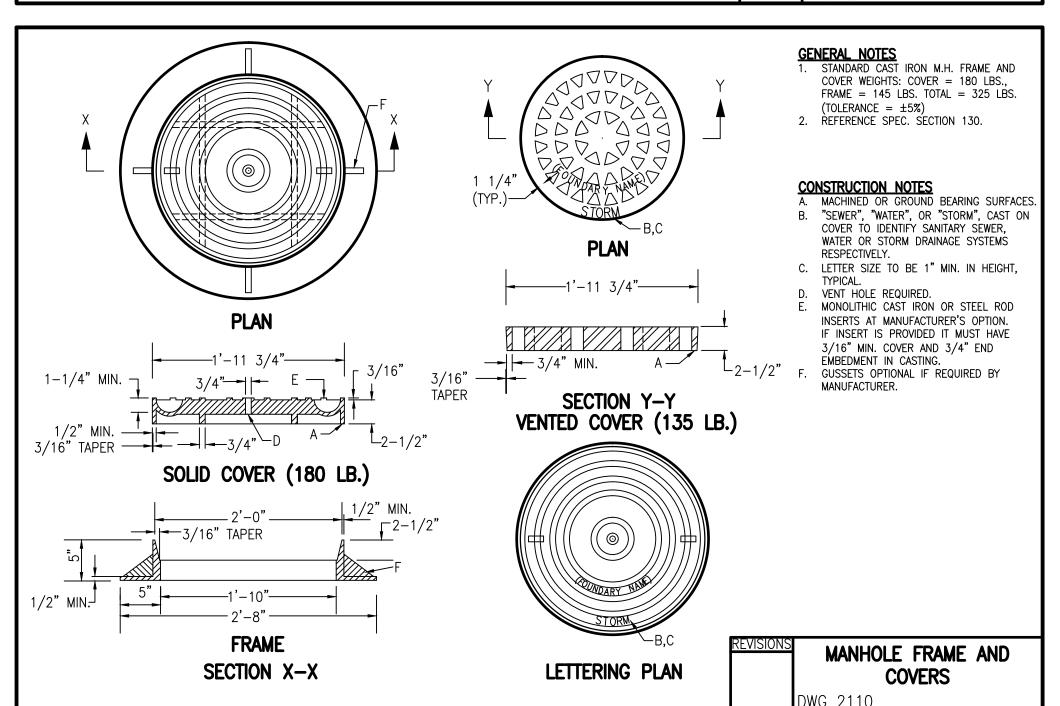


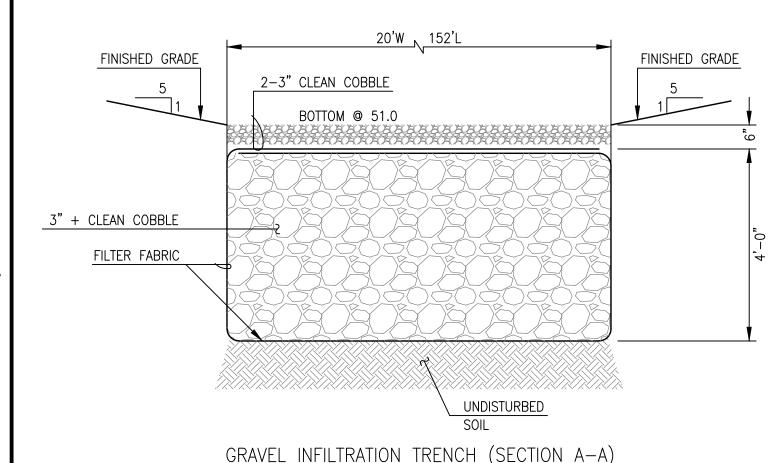






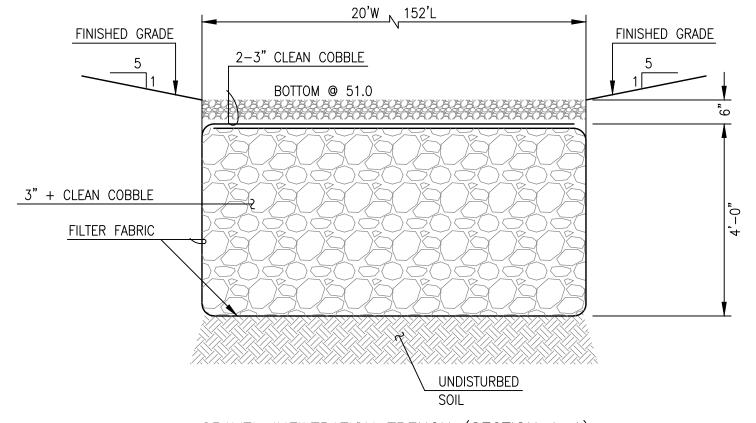






SCALE: 1" = 2'-0"

(BY SEPARATE SUBMITTAL; N.I.C.)





CHERRY/SEE/REAMES

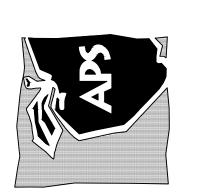
ARCHITECTS, PC

220 gold avenue sw albuquerque, nm 8710

505-842-1278 fax 505-766-9269

270 Alb

VEZ 00L 1 NW 7104



\triangle	07/16	RECORD DWG
MARK	DATE	DESCRIPTION

MANAGEMENT BLOCK

PROJECT NO: REGINALD CHAVEZ DWG FILE:

DRAWN BY:

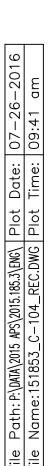
CHECKED BY: COPYRIGHT: Cherry/See/Reames PC

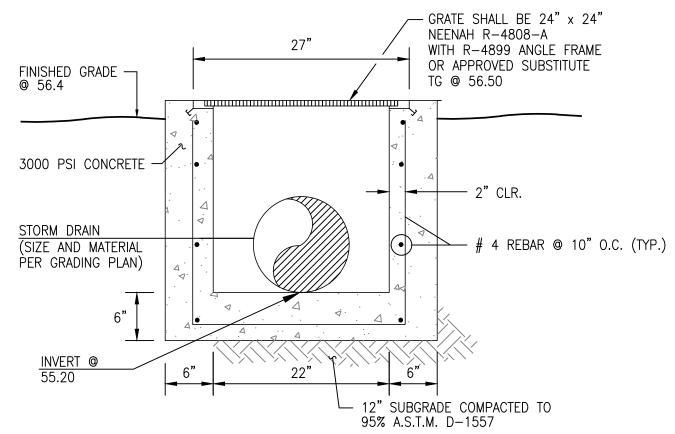
> DRAINAGE **SECTIONS** AND **DETAILS**

C-104

RECORD DRAWING

2015.185.3





TYPICAL 24"X24" STORM INLET SECTION

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- 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.
- 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 OF 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 LINÉS. 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

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
- 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.

PHASING

THIS PROJECT WILL BE CONSTRUCTED IN PHASES AS FOLLOWS:

PHASE 1: REMOVE AND RELOCATE EXISTING PORTABLE CLASSROOM BUILDINGS INCLUDING THE DEMOLITION OF THE EXISTING IMPROVEMENTS WITHIN THE FOOTPRINT OF THE PROPOSED PERMANENT BUILDING. THE APS PORTABLE CLASSROOM BUILDINGS WILL TEMPORARILY BE LOCATED TO THE IMMEDIATE WEST OF THE NEW BUILDING IN THE PROXIMITY OF THE EXISTING BASKETBALL COURTS. THIS WORK BY SEPARATE SUBMITTAL AND PERMIT (N.I.C.)

PHASE 2A: CONSTRUCT NEW PERMANENT CLASSROOM BUILDING.

PHASE 2B: DEMOLISH EXISTING BUILDINGS 300 AND 400 AND CONSTRUCT NEW COURTYARD IMPROVEMENTS BY SEPARATE PERMIT (N.I.C.)

PHASE 2C: REMOVE EXISTING APS PORTABLE CLASSROOM BUILDINGS FROM SITE (N.I.C.)

PHASE 2D: CONSTRUCT NEW PLAYGROUND IMPROVEMENTS FOR YDI AND KINDERGARTEN.

DESIGN GRADING LEGEND:

+ 20.05

14.00

+ 57.66

4...

-4920--

⊕ FG@56.4

INVERT

TOP OF ASPHALT PAVEMENT TOP OF CURB TOP OF GRATE EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION AS-BUILT ELEVATION REVISED ELEVATION PER THIS PLAN

EXISTING FLOWLINE PROPOSED FLOWLINE **EXISTING CONTOUR** PROPOSED CONTOUR **EXISTING DIRECTION OF FLOW**

PROPOSED DIRECTION OF FLOW PROPERTY LINE EXISTING DRAINAGE BASIN BOUNDARY PROPOSED DRAINAGE BASIN BOUNDARY

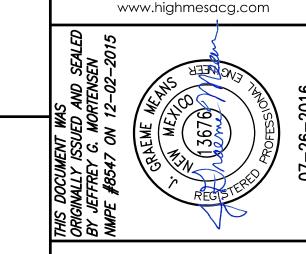
HIGH POINT / DIVIDE

GRAVEL BASE COURSE

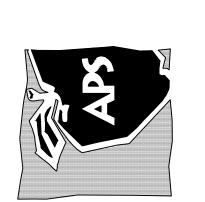
PROPOSED CONCRETE

CHERRY/SEE/REAMES ARCHITECTS, PC 220 gold avenue sw albuquerque, nm 8710 505-842-1278 fax 505-766-9269

> **Consulting Group** 6010-B MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 FAX: 505.345.425



AVEZ HOOL d NW 7104 Albu



/ OT/16 RECORD DWG. MARK DATE DESCRIPTION ISSUE:

MANAGEMENT BLOCK

PROJECT NO: REGINALD CHAVEZ DWG FILE: DRAWN BY:

CHECKED BY: COPYRIGHT: Cherry/See/Reames PC

GRADING PLAN **NORTH**

C-104a

-2013.061.2

INV CL=52.55

RECORD DRAWING FOR CERTIFICATION, SEE SHEET C-103

SCALE: 1" = 1' - 0"

RECORD DRAWING LEGEND

RECORD INFORMATION (VERIFIED BY ENGINEER) AS-CONSTRUCTED = AS-DESIGNED

(VERIFIED BY AS-BUILT SURVEY) RECORD INFORMATION FROM AS-BUILT SURVEY 36 42" +25.2 RECORD INFORMATION FROM AS-BUILT SURVEY

♠ 28,95.92 RECORD INFORMATION FROM AS-BUILT SURVEY

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY: DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A PRELIMINARY PROPERTY INVESTIGATION CONDUCTED BY HIGH MESA CONSULTING GROUP (NMPS 11184), OCTOBER 2006. A TOPOGRAPHIC AND UTILITY SURVEY CONDUCTED BY HIGH MESA CONSULTING GROUP (NMPS 11184), DATED 11-7-2013. SCHOOL IMPROVEMENTS ENCROACH ONTO PROPERTIES NOT OWNED BY APS AND PUBLIC UTILITY, ROADWAY AND RELATED IMPROVEMENTS ENCROACH ONTO APS OWNED PROPERTIES AND GRAPHICALLY DEPICTED BY ////

