# CONSTRUCTION NOTES:

#### 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.

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- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS. THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE shown, the location is based upon information provided BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY MAY BE INCOMPLETE. OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY and all damage caused by its failure to locate, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES PIPELINES. AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES. RULES AND REGULATIONS, IF ANY, PERTAINING
- TO THE LOCATION OF THESE LINES AND FACILITIES. 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO
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#### RECORD DRAMING LEGEND

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

RECORD INFORMATION (VERIFIED BY ENGINEER) RECORD INFORMATION (VERIFIED BY ENGINEER) RECORD INFORMATION (VERIFIED BY ENGINEER,

K-19

LEGAL DESCRIPTION

LOT 22, BLOCK 4, DEL NORTE

PROJECT BENCHMARK - DESTROYED

A SQUARE, "II" CHISELED IN TOP OF CONCRETE CURB AT THE ESE RETURN OF THE INTERSECTION OF PENNSYLVANIA ST. N.E. AND COPPER AVENUE N.E. ELEVATION = 5347.499 FEET (NGVD 1929)

THE ELEVATIONS OF T.B.M.#1, #2 , #3 AND #4 ARE BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY THIS FIRM IN SEPTEMBER 2001 AND THE PUBLISHED ELEVATION OF "A.C.S., B.M., 12-K16", WHICH WAS SUBSEQUENTLY

A MAG NAIL SET IN THE CONCRETE SIDEWALK NEAR THE INTERSECTION OF SAN PABLO S.E. AND SOUTH SIDE OF COPPER AVE. S.E. NEAR THE WEST END OF A DRIVEPAD LOCATED EAST OF A PORTABLE BUILDING, AS SHOWN ON THIS SHEET **ELEVATION = 5335.97 FEET (NGVD 1929)** 

#### LEGEND

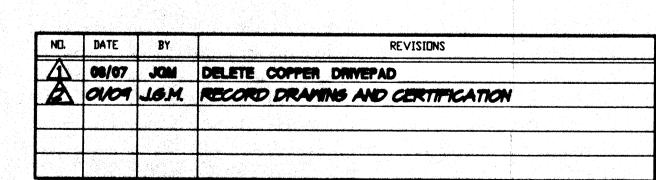
BACK OF CURB CONCRETE BLOCK WALL CHAIN LINK FENCE E(6)C(1)T(1) OVERHEAD LINES(NO. OF LINES) FIRE HYDRANT IRRIGATION LINE BY PAINT MAR METAL HANDRAIL METAL LIGHT POLE OVERHEAD SANITARY SEWER LINE SANITARY SEWER MANHOLE PARKING BUMPERS TOP OF CURB TRAFFIC CONTROL BOX TOP OF CONCRETE TRAFFIC PULLBOX WHEELCHAIR RAMP WATER LINE WOOD POWER POLE WATER METER WATER VALVE BOX CROSS-WALK

4" ST W 4' STEEL WATERLINE

EXISTING SPOT ELEVATION EXISTING CONTOUR EXISTING SHRUB

EXISTING CONFEROUS TREE (CALIPER SIZE)

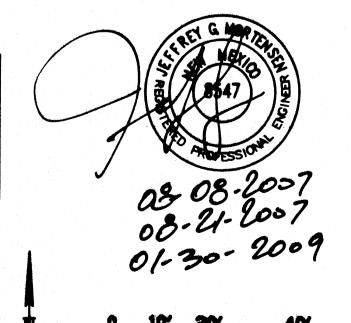
EXISTING DECIDUOUS TREE





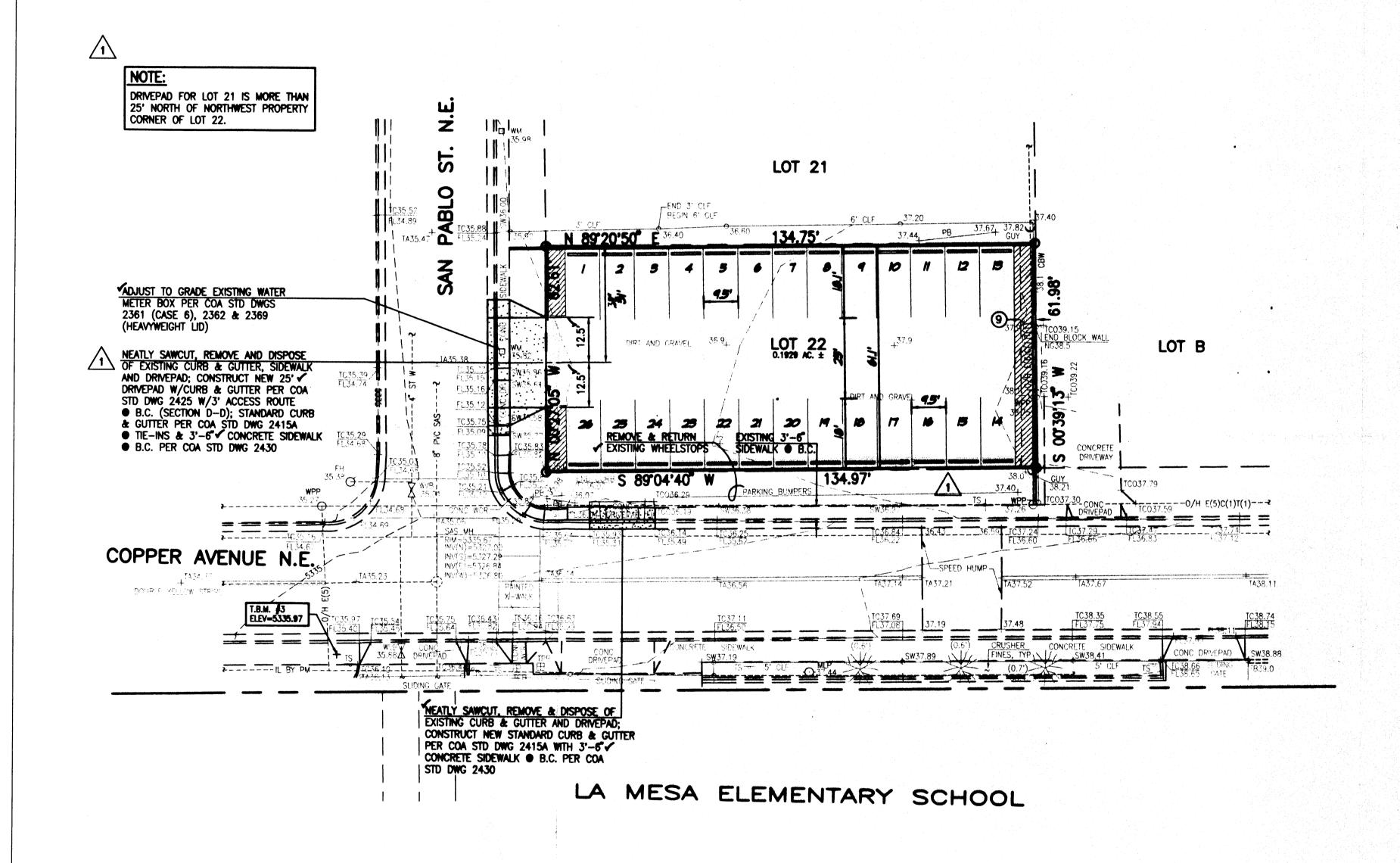
6010-8 MIDWAY PARK BLVD. NE - ALBUQUERQUE, NEW MEXICO 87107 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2007.045/1 2



SCALE: 1' = 20'

TARY SCHOOL
FACILITIES
RUCTION
IBLIC SCHOOLS





RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 2

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. TH BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON AN UNRECORDED BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC.), NMPS 11184, DATED 05/16/2006. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE "PARTIAL TOPOGRAPHIC SURVEY" PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC.), NMPS NO. 11184, DATED 05/16/2006.

ACAD14\2007.045.2\ Plot Date: 01-29-2009 52CP\_R2.DWG Plot Time: 3:16 pm

#### INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT IS LOCATED IN NORTHEAST ALBUQUERQUE AT THE NORTHEAST CORNER OF THE INTERSECTION OF COPPER AVENUE NE. AND SAN PABLO ST. NE. DIRECTLY NORTH OF THE LA MESA ELEMENTARY SCHOOL, IT REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. AT PRESENT, THE SITE IS AN UNPAVED PARKING LOT SERVING THE LA MESA ELEMENTARY SCHOOL. IT IS PROPOSED TO CONSTRUCT PERMANENT ASPHALT PAVEMENT WITH NEW DRIVEPAD ENTRANCES. THE DRAINAGE PLAN FOR THIS DEVELOPMENT WILL FOLLOW THE EXISTING DRAINAGE PATTERN FOR THE SITE, THE SITE AND SURROUNDING DRAINAGE BASIN DRAIN TO THE FAIRGROUNDS STORM WATER RELIEF SYSTEM.

THIS PLAN IS BEING SUBMITTED FOR GRADING AND PAVING PERMIT APPROVAL.

#### II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF COPPER AVE NE AND SAN PABLO ST NE. DIRECTLY NORTH ACROSS COPPER AVE NE FROM THE LA MESA ELEMENTARY SCHOOL. THE CURRENT LEGAL DESCRIPTION IS LOT 22, BLOCK 4, DEL NORTE. AS INDICATED BY PANEL 354 & 358 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO. NOVEMBER 19, 2003, THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. RUNOFF FROM THE SITE DRAINS TO COPPER AVE NE WHICH IS A DESIGNATED FLOOD HAZARD ZONE (ZONE AO). AS STATED ABOVE, THE SITE DRAINS TO THE FAIRGROUNDS STORM WATER RELIEF SYSTEM.

#### III. BACKGROUND DOCUMENTS & RESEARCH

#### REVIEW OF THE FOLLOWING WERE USED IN THE PREPARATION OF THIS SUBMITTAL

- A. PARTIAL-TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC.), NMPS NO. 11184. DATED MAY 16, 2006. THE SURVEY SHOWS THE EXISTING CONDITIONS OF THE SITE AND IS USED AS A BASE FOR THE SITE AND GRADING PLAN SHEETS.
- B. ALBUQUERQUE MASTER DRAINAGE STUDY (AMDS), VOLUME II, DATED JANUARY, 1981. THE SITE IS SERVED BY THE FAIRGROUNDS STORM WATER RELIEF SYSTEM (205-01A) INTENDED TO ELIMINATE FLOODING ON MANY OF THE RESIDENTIAL STREETS UPSTREAM FROM THE FAIRGROUNDS, INCLUDING COPPER AVENUE NE.

#### IV. EXISTING CONDITIONS

THE PROJECT SITE IS CURRENTLY AN UNPAVED TEMPORARY PARKING LOT SERVING THE LA MESA ELEMENTARY SCHOOL, THE SITE DRAINS FROM EAST TO WEST INTO SAN PABLO STREET NE WHERE IT FLOWS SOUTH TO COPPER AVENUE NE. COPPER AVENUE NE DRAINS WEST TO THE FAIRGROUNDS STORM WATER RELIEF SYSTEM AS DESCRIBED AND REFERENCED ABOVE.

#### V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF REGRADING AND NEW ASPHALT PAVING. CREATING A PERMANENT PARKING LOT WITH TWO NEW DRIVEPADS, ONE EACH TO THE ADJACENT STREETS OF SAN PABLO STREET NE AND COPPER AVENUE NE. THE NEW PAVED PARKING LOT WILL CONTINUE TO DRAIN EAST TO WEST PER THE EXISTING DRAINAGE PATTERN. DISCHARGING RUNOFF THROUGH THE NEW DRIVEPAD THAT EXITS ONTO SAN PABLO STREET NE. THE STORM WATER RUNOFF WILL DRAIN TO COPPER STREET NE PER THE EXISTING CONDITIONS. THERE WILL BE A MINIMAL INCREASE IN RUNOFF VOLUME AND PEAK RATE OF DISCHARGE FROM THE SITE DUE TO THE DEVELOPMENT: THIS MINIMAL INCREASE WILL NOT HAVE AN ADVERSE IMPACT ON DOWNSTREAM CAPACITY OR DOWNSTREAM PROPERTIES AND THEREFORE CONTINUED FREE DISCHARGE IS APPROPRIATE

## VI. GRADING PLAN

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS AS TAKEN FROM TOPOGRAPHIC SURVEY PREPARED BY THIS OFFICE AND DATED MAY 16, 2006, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0' INTERVALS, 3) THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

### VII. CALCULATIONS

Plot Date: 01-29-

CALCULATIONS ANALYZING THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT HAVE BEEN PREPARED FOR THIS PROJECT. 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 SHOWN BY THE RESULTS PRESENTED HEREON, THE PROJECT SITE WILL HAVE A MINIMAL INCREASE OF RUNOFF VOLUME AND PEAK RATE OF DISCHARGE TO THE EXISTING ADJACENT PUBLIC STREETS. THE MINIMAL INCREASE WILL HAVE NO ADVERSE IMPACT ON DOWNSTREAM CAPACITY.

### VIII. RECOMMENDATIONS AND CONCLUSIONS

THE CONTINUED FREE DISCHARGE OF RUNOFF FROM THE SITE INTO THE EXISTING ADJACENT PUBLIC STREETS IS APPROPRIATE DUE TO THE FOLLOWING:

- THE STORM WATER RUNOFF VOLUME GENERATED WITHIN THE PROJECT SITE WILL EXPERIENCE A MINIMAL INCREASE AS A RESULT OF THE PROPOSED
- THE PEAK RATE OF DISCHARGE GENERATED WITHIN BASIN A WILL EXPERIENCE A MINIMAL INCREASE AS A RESULT OF THE PROPOSED
- ALTHOUGH THE EXISTING ADJACENT PUBLIC STREET OF COPPER AVE NE IS A DESIGNATED FLOOD HAZARD ZONE, THE PRESENT MAPPING DOES NOT TAKE INTO ACCOUNT THE FAIRGROUNDS STORM WATER RELIEF SYSTEM SITUATED DOWNSTREAM OF THE SITE.
- NO ADVERSE IMPACT ON DOWNSTREAM CAPACITY OR DOWNSTREAM PROPERTIES DUE TO THE PRESENCE OF THE FAIRGROUNDS STORM WATER
- RELIEF SYSTEM.
  THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD AREA. COPPER AVENUE N.E.

#### CALCULATIONS

# SITE CHARACTERISTICS

- 1. PRECIPITATION ZONE = 3
- 2.  $P_{0.100} = P_{300} = 2.60$
- 3. TOTAL PROJECT AREA (Ar) = 8,400 SF
- 4. EXISTING LAND TREATMENT
- 8,400/0.19 5. DEVELOPED LAND TREATMENT
- 8.400/0.19

#### EXISTING CONDITION

- VOLUME Ew = (EAA+EsA+EsA+EsA+EsA)/Ar
  - $E_{W} = (1.29 + 0.19)/0.19 = 1.29$  $V_{100} = (E_{10}/12)A_{T} = (1.29/12)0.19 = 0.0207 AC-FT = 900 CF$

#### 2. PEAK DISCHARGE Qr = QraAx+QraAs+QraAc+QraAs

 $QP = Q100 = (3.45 \cdot 0.19) = 0.7 CFS$ 

#### DEVELOPED CONDITION

- 1. VOLUME  $Ew = (E_{A}A + E_{B}A + E_{C}A + E_{B}A + E_{C}A)/Av$ 
  - Ew = (2.36 + 0.19)/0.19 = 2.36 $V_{100} = (E_{II}/12)A_{II} = (2.36/12)0.19 = 0.0379 AC-FT = 1,650 CF$
- 2. PEAK DISCHARGE

#### Qr = QrnAn+QrnAn+QrnAc+QrnAn $Q_P = Q_{100} = (5.02 + 0.19) = 1.0 CFS$

## <u>COMPARISON</u>

- 1. VOLUME
- $\Delta V_{100} = 1,650 900 = 750 CF (INCREASE)$

N

#### 2. PEAK DISCHARGE $\Delta Q_{100} = 1.0 - 0.7 = 0.3 CFS (INCREASE)$

# KEYED NOTES

9) 4' PUBLIC UTILITY EASEMENT GRANTED BY WARRANTY DEED FILED 09-18-1957, BOOK D399, PAGE 243, DOC. \$40578

#### RECORD DRAWING LEGEND

RECORD INFORMATION (VERIFIED BY ENSINEER)

AS-CONSTRUCTED = AS-DESIGNED

WERIFIED BY ENGINEER!

RECORD INFORMATION (VERIFIED BY ENGINEER) RECORD INFORMATION (VERIFIED BY ENGINEER)

RECORD INFORMATION (VERIFIED BY ENGINEER)

# RECORD DRAWING

# ENSINEERS CERTIFICATION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 08-08-2007 AND REVISED 08-21-2007, AND AS APPROVED FOR CURB CUT BY WILFRED GALLEGOS 8-21-07. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT supervision as supplemental data to the topographic survey prepared by high mesa: CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC.) DATED 05/16/2006. NMPS 11184. THIS CERTIFICATION IS SUBMITTED TO SATISFY CONDITIONS OF APPROVAL FOR GRADING AND PAVING PERMIT AND TO DOCUMENT COMPLETION OF THOSE IMPROVEMENTS AS IDENTIFIED ON THE APPROVED PLAN FOR THE OWNER AND CITY ENGINEER'S OFFICE.

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 ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAMAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEHREY & MORTENSEN, NMPE 8547

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LOT 22 0.1929 AC. ±



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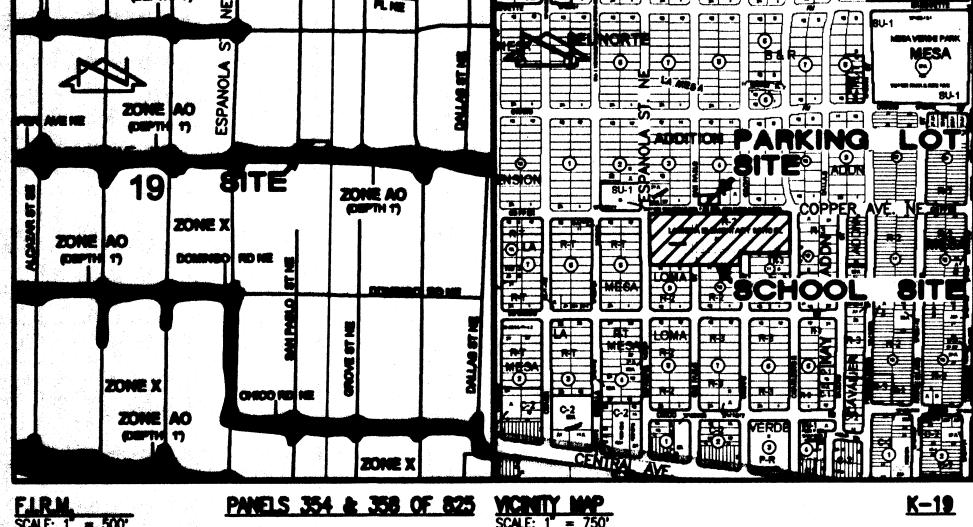
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NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING



LEGAL DESCRIPTION

AND COPPER AVENUE N.E.

AS SHOWN ON THIS SHEET

T.B.M. 43

LEGEND

4" ST W

E(6)C(1)T(1)

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SIDE OF COPPER AVE. S.E. NEAR THE WEST END OF

A DRIVEPAD LOCATED EAST OF A PORTABLE BUILDING,

4' STEEL WATERLINE

CONCRETE BLOCK WALL

OVERHEAD LINES(NO. OF LINES)

IRRIGATION LINE BY PAINT MARK

BACK OF CURB

CHAIN LINK FENCE

FIRE HYDRANT

METAL HANDRAIL

METAL LIGHT POLE

Parking Bumpers

TOP OF CONCRETE TRAFFIC PULLBOX

WHEELCHAIR RAMP

WOOD POWER POLE

WATER VALVE BOX

EXISTING CONTOUR

PROPOSED CONTOUR

RIGHT OF WAY LINE

PUBLIC EASEMENT LINE

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

WATER LINE

WATER METER

CROSS-WALK

TOP OF CURB

SANITARY SEWER LINE

TRAFFIC CONTROL BOX

SANITARY SEWER MANHOLE

FLOWLINE

OVERHEAD

**ELEVATION = 5347.499 FEET (NGVD 1929)** 

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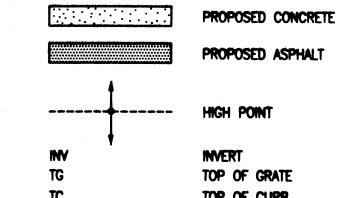
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4010-8 MIDWAY PARK BLVD. NE . ALBUQUERQUE, NEW MEXICO 87109

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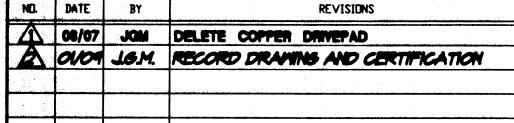
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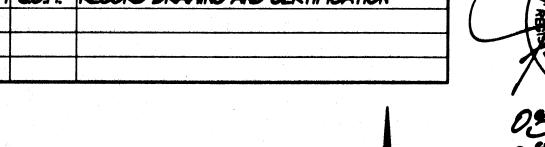


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TOP OF CURB TOP OF ASPHALT PAVEMENT





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LA MESA DEPARTA DESIGN A

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NMPS NO. 11184, DATED 05/16/2006.

LA MESA ELEMENTARY SCHOOL