

## BENCHMARKS

### PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4" ALUMINUM DISK STAMPED "9-115 1990", RIVETED TO AN ALUMINUM TUBE PROJECTING 0.25' ABOVE GRADE ON THE NORTH SIDE OF LOMAS BLVD. N.E. APPROXIMATELY 244' WEST OF THE INTERSECTION WITH LEGION ROAD N.E.  
ELEVATION = 5093.057 FEET (NAVD 88)

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

A #5 REBAR WITH CONTROL CAP STAMPED "HWCC CONTROL NMPS 11184", IN THE NORTHWESTERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.  
ELEVATION = 5026.87 FEET (NAVD 88)

## GRADING LEGEND

INV	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRADE
+ 20.05	EXISTING SPOT ELEVATION
● 14.00	PROPOSED SPOT ELEVATION
---	EXISTING FLOWLINE
---	PROPOSED FLOWLINE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	EXISTING DIRECTION OF FLOW
---	PROPOSED DIRECTION OF FLOW
---	RIGHT OF WAY LINE
---	PUBLIC EASEMENT LINE
---	HIGH POINT / DIVIDE
---	EXISTING FENCE
---	PROPOSED SILT FENCE
---	SILT FENCE
---	PROPOSED CONCRETE
---	PROPOSED ASPHALT PAVING

## 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.
- 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 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 THEREOF, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREOF. 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.

## EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
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## 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 PREVIOUS PRELIMINARY, UNCERTIFIED SURVEY, PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 2008. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 05-26-2003 (2003.10063).

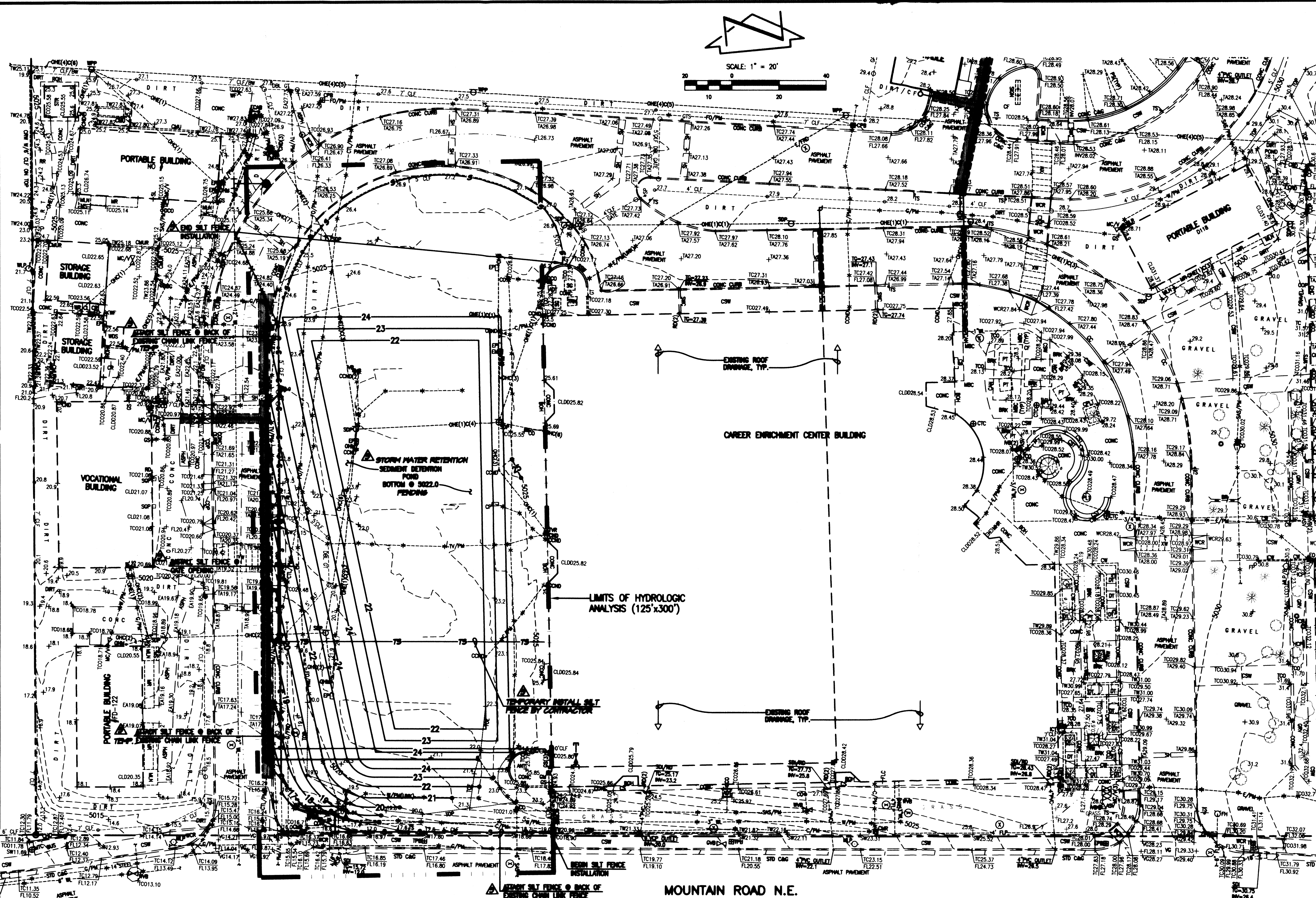
**HIGH MESA Consulting Group**

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PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

## GRADING PLAN - SOUTH PORTABLE CLASSROOM RELOCATIONS CAREER ENRICHMENT CENTER 807 MOUNTAIN ROAD N.E.

**RECORD DRAWING**  
FOR CERTIFICATION, SEE SHEET 1 of 1

DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
J.G.M.	06/14	J.G.M.	RECORD DRAWING & DRAINAGE CERTIFICATION	2013.184.2
DRAWN BY	DATE	BY		
J.Y.R.				06-2014
APPROVED BY	DATE	BY		
J.G.M.				7 of 14





## BENCHMARKS

### PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4" ALUMINUM DISK STAMPED "9-115 1990", RIVETED TO AN ALUMINUM TUBE PROJECTING 0.25' ABOVE GRADE ON THE NORTH SIDE OF LOMAS BLVD. N.E. APPROXIMATELY 244' WEST OF THE INTERSECTION WITH LEGION ROAD N.E.  
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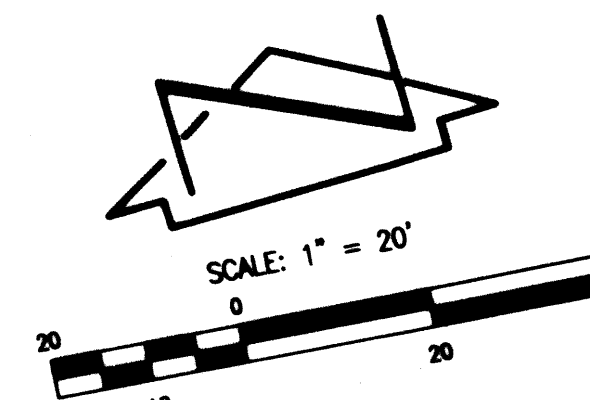
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INVERT	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
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+ 20.05	EXISTING SPOT ELEVATION
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4920	EXISTING DIRECTION OF FLOW
20	PROPOSED DIRECTION OF FLOW
4920	RIGHT OF WAY LINE
20	PUBLIC ENGAGEMENT LINE
4920	HIGH POINT / DIVIDE
20	EXISTING FENCE
4920	PROPOSED SILT FENCE
20	PROPOSED WHODLES
4920	PROPOSED CONCRETE
20	PROPOSED ASPHALT PAVING

LIMITS OF HYDROLOGIC ANALYSIS (125'x300')



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**GRADING PLAN - NORTH**  
**PORTABLE CLASSROOM RELOCATIONS**  
**CAREER ENRICHMENT CENTER**  
**807 MOUNTAIN ROAD N.E.**

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### NOTE:

FOR AS-CONSTRUCTED PIER ELEVATIONS, SEE SHEET 15 OF 14

**RECORD DRAWING**  
FOR CERTIFICATION, SEE SHEET 1 of 1

DESIGNED BY	DRAWN BY	APPROVED BY	DATE	BY	REVISIONS	JOB NO.
JGM	JJR	JGM	06-2014	JGM	RECORD DRAWING & DRAWING CERTIFICATION	2013.184.2
						06-2014
						8 OF 14



File Path: P:\JWA\2013\1842\DWG\1842-SH9-R3.DWG [Plot Date: 08-27-2014  
File Name: 131842-SH9-R3.DWG Plot Time: 3:01 pm]

## DRAINAGE PLAN

### I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE LOWER NORTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING APS SCHOOL SITE WITHIN AN INFILL AREA. THE PROPOSED CONSTRUCTION CONSISTS OF THE RELOCATION OF EXISTING PORTABLE CLASSROOM BUILDINGS IN AN ADVANCING BUILDING CLASSROOM BUILDING ADDITION. THE PROPOSED IMPROVEMENTS WILL BE LOCATED AT THE SOUTH PORTION OF WHAT IS KNOWN AS THE ALBUQUERQUE HIGH SCHOOL SITE. THE DRAINAGE CONCEPT WILL BE THE CONTINUED DISCHARGE OF DEVELOPED RUNOFF FROM THIS PORTION OF THE SITE TO MOUNTAIN ROAD NE. THIS CONCEPT WAS ESTABLISHED BY THE PREVIOUSLY APPROVED MASTER DRAINAGE PLAN FOR THE SITE DATED 07-27-2008 (115/0001). THE PROPOSED PROJECT SITE LIES WITHIN SUB-BASIN B-1 AS DEFINED BY THAT PLAN. THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERQUE.

### II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE PROPOSED PROJECT SITE IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF MOUNTAIN ROAD NE AND THE I-25 WEST FRONTAGE ROAD. AS SHOWN BY PANELS 138 AND 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. PRIOR SUBMITTAL IDENTIFIED LIMITED DOWNSIDE CAPACITY.

### III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- UPDATED MASTER DRAINAGE PLAN (MDP) FOR ALBUQUERQUE HIGH SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP DATED 07-28-2008. THIS PLAN OF RECORD IDENTIFIES THAT THE SUBJECT PROJECT SITE LIES WITHIN SUB-BASIN B-1. THE DRAINAGE CONCEPT FOR SUB-BASIN B-1 IS TO MAINTAIN OR DECREASE THE AMOUNT OF RUNOFF DISCHARGED FROM THE SUB-BASIN TO MOUNTAIN ROAD NE.
- TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 05-13-2014. THE SUBJECT SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE SITE.

### IV. EXISTING CONDITIONS

THE PROJECT SITE PRESENTLY CONSISTS OF A PORTION OF THE ALBUQUERQUE HIGH SCHOOL (AHS) SITE OCCUPIED BY THE CAREER ENRICHMENT CENTER (CEC). THE PROJECT SITE CONSISTS OF TWO PORTIONS OF THE AHS AND CEC SITES. THE FIRST IS THE EXISTING PORTABLE CLASSROOM SITE LOCATED IMMEDIATELY WEST OF THE CEC MAIN BUILDING. THE SECOND IS A SMALL PARKING LOT IMMEDIATELY NORTH OF THE CEC SITE WITHIN THE AHS CAMPUS.

THE EXISTING CEC PORTABLE SITE CONSISTS OF FOUR (4) PORTABLE CLASSROOM BUILDINGS AND LIMITED PAVING. THE BARE SOIL PRESENT IS A SANDY GRAVEL WITH HIGH PERMEABILITY. AT PRESENT, THIS PORTION OF THE SITE DRAINS FROM NORTH TO SOUTH, DISCHARGING TO MOUNTAIN ROAD NE. FROM THIS POINT, RUNOFF FLOWS WEST WITHIN MOUNTAIN ROAD NE, A FULLY DEVELOPED CITY STREET WITH ASPHALT PAVING AND GUTTER. TO THE INTERSECTION WITH BROADWAY BLVD NE WHERE IT ENTERS THE BROADWAY PUMP STATION. FROM THIS POINT, THE RUNOFF IS PUMPED EAST TO DISCHARGE TO THE NORTH DIVERSION CHANNEL.

THE SMALL PARKING LOT ON THE AHS SITE SLOPES FROM NORTH TO SOUTH DISCHARGING TO A PRIVATE ACCESS DRIVE THAT ALSO DRAINS SOUTH TO MOUNTAIN ROAD NE. FROM THIS POINT, RUNOFF FLOWS WEST IN MOUNTAIN ROAD NE TO BROADWAY BLVD. NE AS DESCRIBED ABOVE. THERE IS NO ATTENUATION OF FLOWS VIA PONDING IN EITHER PORTION OF THE OVERALL SITE AS DESCRIBED ABOVE.

THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE AS IT LIES INTERNAL TO THE OVERALL SCHOOL SITE AND IT IS TOPOGRAPHICALLY HIGHER THAN THE ADJACENT PROPERTY TO THE WEST.

### V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF REMOVING THE FOUR (4) EXISTING PORTABLE CLASSROOM BUILDINGS FROM THE CEC SITE AND TEMPORARILY RELOCATING THEM WITHIN THE SMALL PARKING LOT ON THE AHS SITE. THE EXISTING PAVING WITHIN THE CEC SITE WILL BE REMOVED ALONG WITH UTILITIES NO LONGER REQUIRED. THE VACATED SITE WILL EVENTUALLY SUPPORT A NEW PERMANENT CLASSROOM BUILDING UNDER SEPARATE SUBMITTAL AND SEPARATE PERMIT. IN THE INTERIM, THE SITE WILL BE GRADED TO RETAIN ALL RUNOFF THAT FALLS UPON IT TO MITIGATE THE POTENTIAL EFFECTS OF SEDIMENT LEAVING THE SITE AND ENTERING MOUNTAIN ROAD NE. IN ADDITION, THE PERIMETER OF THE SITE WILL BE PROTECTED WITH SILT FENCE.

THE RELOCATED PORTABLE CLASSROOM BUILDINGS WILL BE TEMPORARILY SITED WITHIN THE EXISTING SMALL PARKING LOT ON THE AHS SITE. THIS WORK WILL INVOLVE THE REMOVAL OF EXISTING ASPHALT PAVEMENT BENEATH THE FOOTPRINT OF EACH RELOCATED BUILDING. NO NEW PAVING IS PROPOSED OTHER THAN PATCHING UTILITY TRENCH CUTS. RUNOFF WILL CONTINUE TO FLOW FROM NORTH TO SOUTH AND DISCHARGE TO MOUNTAIN ROAD NE. TO MITIGATE POTENTIAL EROSION DURING CONSTRUCTION, WADDLES WILL BE USED TO TRAP AND PREVENT SEDIMENT FROM ENTERING THE PRIVATE ACCESS DRIVE.

AS IN THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

### VI. GRADING PLAN

THE GRADING PLANS SHOW 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, 3.) INTERIM BMPs, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF DISCHARGE FROM NORTH TO SOUTH TO MOUNTAIN ROAD NE.

### VII. EROSION CONTROL PLAN

THIS PROJECT DISTURBS LESS THAN ONE-ACRE OF LAND. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS NOT BEEN PREPARED. THE SMALL SIZE OF THIS PROJECT DOES NOT WARRANT THE PREPARATION OF A SITE SPECIFIC EROSION CONTROL PLAN. HOWEVER, THIS PLAN PROPOSES BEST MANAGEMENT PRACTICES (BMPs) TO MITIGATE THE EFFECTS OF CONSTRUCTION RELATED SEDIMENT DISCHARGE. IN ADDITION, INTERIM MEASURES ARE PROPOSED FOR THE CEC SITE FOR THE PERIOD OF TIME THE SITE SITS IDLE.

### VIII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR EACH OF THE PROJECT SITES. 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 PROJECT WILL RESULT IN A NET DECREASE IN THE DEVELOPED RUNOFF GENERATED BY SUB-BASIN B-1 LOCATED WITHIN THE AHS MDP SITE.

### IX. CONCLUSIONS

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

- THE PROPOSED IMPROVEMENTS LIE WITHIN SUB-BASIN B-1 AS DEFINED BY THE ALBUQUERQUE HIGH SCHOOL MASTER DRAINAGE PLAN.
- THE PROPOSED IMPROVEMENTS WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS OF SUB-BASIN B-1.
- THE PROPOSED IMPROVEMENTS WILL RESULT IN A NET DECREASE IN THE DEVELOPED RUNOFF VOLUME GENERATED BY SUB-BASIN B-1.
- INTERIM EROSION AND SEDIMENT CONTROL MEASURES ARE PROPOSED FOR VACATED PORTABLE CLASSROOM SITE.
- EROSION AND SEDIMENT CONTROL MEASURES ARE PROPOSED DURING CONSTRUCTION FOR THE SITE OF THE RELOCATED PORTABLE CLASSROOM BUILDINGS.
- A SEPARATE SUBMITTAL IS REQUIRED TO SUPPORT BUILDING PERMIT APPROVAL FOR THE NEW PERMANENT CLASSROOM BUILDING.
- A SEPARATE BUILDING PERMIT IS REQUIRED FOR THE NEW PERMANENT CLASSROOM BUILDING.
- THE DEVELOPED RUNOFF GENERATED BY THE PROJECT SITE WILL BE MANAGED BY THE EXISTING PRIVATE ONSITE DETENTION POND.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSIDE PROPERTIES OR DOWNSIDE DRAINAGE CONDITIONS.
- THIS PROJECT IS NOT SUBJECT TO AN EPA NPDES PERMIT.

## CALCULATIONS

### I. SITE CHARACTERISTICS

#### A. PRECIPITATION ZONE =

2

$$P_{B-100} = P_{360} =$$

2.35 IN

$$C. \text{ TOTAL PROJECT AREA } (A_T) =$$

57,500 SF

1.32 AC

#### D. LAND TREATMENTS

##### 1. EXISTING LAND TREATMENTS

a. BASIN SOUTH TREATMENT	37,500 SF =	0.86 AC	%
A			
B			
C	20,170 / 0.46		54
D	17,330 / 0.40		46

b. BASIN NORTH TREATMENT	20,000 SF =	0.46 AC	%
A			
B			
C	2,100 / 0.05		11
D	17,900 / 0.41		90

##### 2. DEVELOPED LAND TREATMENTS

a. BASIN SOUTH TREATMENT	37,500 SF =	0.86 AC	%
A			
B			
C	31,630 / 0.73		84
D	5,870 / 0.13		16

b. BASIN NORTH TREATMENT	20,000 SF =	0.46 AC	%
A			
B			
C	1,760 / 0.04		9
D	18,240 / 0.42		91

### II. HYDROLOGY

#### A. EXISTING CONDITION

##### 1. BASIN SOUTH

$$\begin{aligned} \text{a. VOLUME} \\ E_w &= (E_p A_A + E_p A_B + E_p A_C + E_p A_D) / A_T \\ E_w &= ((0.00^*0.53) + (0.00^*0.78) + (0.46^*1.13) + (0.40^*2.12)) / 0.86 = 1.59 \text{ IN} \\ V_{100} &= (E_w / 12) A_T = (1.59 / 12) 0.86 = 0.1140 \text{ AC-FT} = 4,960 \text{ CF} \end{aligned}$$

$$\begin{aligned} \text{b. PEAK DISCHARGE} \\ Q_p &= Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D \\ Q_p = Q_{100} &= ((0.00^*1.56) + (0.00^*2.28) + (0.46^*3.14) + (0.40^*4.7)) = 3.3 \text{ CFS} \end{aligned}$$

##### 2. BASIN NORTH

$$\begin{aligned} \text{a. VOLUME} \\ E_w &= (E_p A_A + E_p A_B + E_p A_C + E_p A_D) / A_T \\ E_w &= ((0.00^*0.53) + (0.00^*0.78) + (0.05^*1.13) + (0.41^*2.12)) / 0.46 = 2.01 \text{ IN} \\ V_{100} &= (E_w / 12) A_T = (2.01 / 12) 0.46 = 0.0771 \text{ AC-FT} = 3,360 \text{ CF} \end{aligned}$$

$$\begin{aligned} \text{b. PEAK DISCHARGE} \\ Q_p &= Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D \\ Q_p = Q_{100} &= ((0.00^*1.56) + (0.00^*2.28) + (0.05^*3.14) + (0.41^*4.7)) = 2.1 \text{ CFS} \end{aligned}$$

#### B. DEVELOPED CONDITION

##### 1. BASIN SOUTH

###### a. VOLUME

###### i. 2 YEAR STORM EVENT

$$\begin{aligned} E_w &= (E_p A_A + E_p A_B + E_p A_C + E_p A_D) / A_T \\ E_w &= ((0.00^*0) + (0.00^*0.02) + (0.75^*0.15) + (0.86^*0.79)) / 0.86 = 0.25 \text{ IN} \\ V_2 &= (E_w / 12) A_T = (0.25 / 12) 0.86 = 0.0088 \text{ AC-FT} = 380 \text{ CF} \end{aligned}$$

###### ii. 100 YEAR STORM EVENT

$$\begin{aligned} E_w &= (E_p A_A + E_p A_B + E_p A_C + E_p A_D) / A_T \\ E_w &= ((0.00^*0.53) + (0.00^*0.78) + (0.73^*1.13) + (0.13^*2.12)) / 0.86 = 1.29 \text{ IN} \\ V_{100} &= (E_w / 12) A_T = (1.29 / 12) 0.86 = 0.0925 \text{ AC-FT} = 4,030 \text{ CF} \end{aligned}$$

$$\begin{aligned} \text{b. PEAK DISCHARGE} \\ Q_p &= Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D \\ Q_p = Q_{100} &= ((0.00^*1.56) + (0.00^*2.28) + (0.73^*3.14) + (0.13^*4.7)) = 2.9 \text{ CFS} \end{aligned}$$

##### c. SEDIMENT DETENTION POND CAPACITY (END-AREA METHOD)

ELEV	AREA (SF)	VOLUME (CF)	Σ VOLUME (CF)
5022	8860	10080	10080
5023	11300	12550	22630
5024	13800		

$$V_{\text{POND}} = 22,630 \text{ CF} >> V_{2 \text{ DEV}} = 380 \text{ CF} \therefore \text{OK}$$

$$V_{\text{POND}} = 22,630 \text{ CF} >> V_{100 \text{ DEV}} = 4,030 \text{ CF} \therefore V_{\text{POND}} = 5X V_{100 \text{ DEV}}$$

$$\text{WSL @ } V_{100 \text{ DEV}} = 5022.5 \text{ (5022.5 - 5022.0 = 0.5' = 6" DEEP)}$$

### 2. BASIN NORTH

#### a. VOLUME

$$\begin{aligned} E_w &= (E_p A_A + E_p A_B + E_p A_C + E_p A_D) / A_T \\ E_w &= ((0.00^*0.53) + (0.00^*0.78) + (0.04^*1.13) + (0.42^*2.12)) / 0.46 = 2.03 \text{ IN} \\ V_{100} &= (E_w / 12) A_T = (2.03 / 12) 0.46 = 0.0778 \text{ AC-FT} = 3,390 \text{ CF} \end{aligned}$$

#### b. PEAK DISCHARGE

$$\begin{aligned} Q_p &= Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D \\ Q_p = Q_{100} &= ((0.00^*1.56) + (0.00^*2.28) + (0.04^*3.14) + (0.42^*4.7)) = 2.1 \text{ CFS} \end{aligned}$$

#### C. COMPARISON

##### 1. BASIN SOUTH

$$\begin{aligned} \text{a. VOLUME } (V_{100 \text{ DEV}} - V_{100 \text{ EXIST}}) \\ \Delta V_{100} &= 4,030 - 4,960 = -930 \text{ CF (DECREASE)} \end{aligned}$$

$$\begin{aligned} \text{b. PEAK DISCHARGE } (Q_{100 \text{ DEV}} - Q_{100 \text{ EXIST}}) \\ \Delta Q_{100} &= 2.9 - 3.3 = -0.4 \text{ CFS (DECREASE)} \end{aligned}$$

##### 2. BASIN NORTH

$$\begin{aligned} \text{a. VOLUME } (V_{100 \text{ DEV}} - V_{100 \text{ EXIST}}) \\ \Delta V_{100} &= 3,390 - 3,360 = 30 \text{ CF (NEGLIGIBLE INCREASE)} \end{aligned}$$

$$\begin{aligned} \text{b. PEAK DISCHARGE } (Q_{100 \text{ DEV}} - Q_{100 \text{ EXIST}}) \\ \Delta Q_{100} &= 2.1 - 2.1 = 0.0 \text{ CFS (NO CHANGE)} \end{aligned}$$

### III. AREAS OF DISTURBANCE

#### A. SOUTH

$$1. A_B = 31,500 \text{ SF} = 0.72 \text{ AC (BY SCALE)}$$

#### B. NORTH

$$1. A_N = 6,048 \text{ SF} = 0.14 \text{ AC (896 SF + 1680 SF + 1680 SF + 1792 SF)}$$

#### C. TOTAL PROJECT

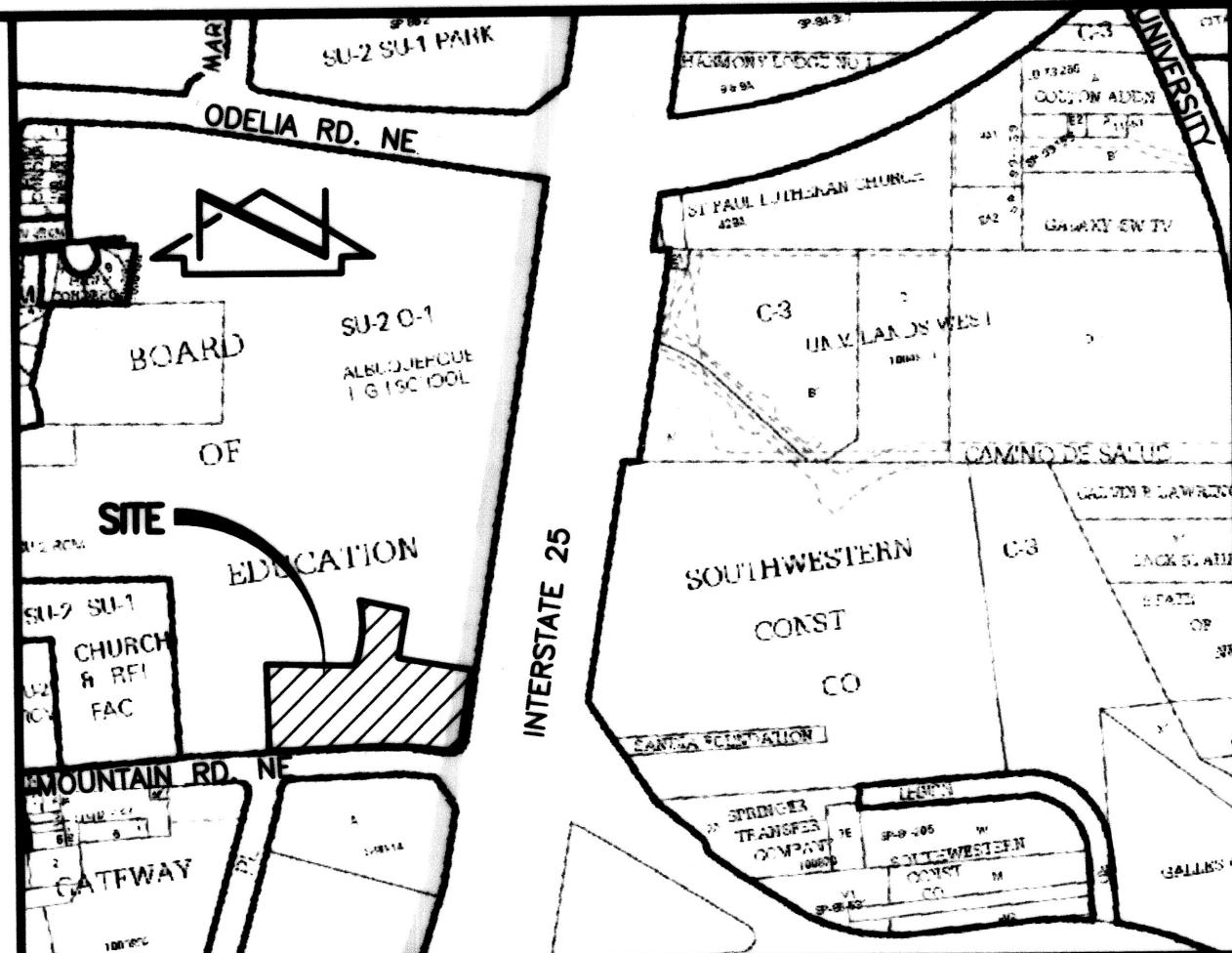
$$1. A_B + A_N = 0.86 \text{ AC} < 1 \text{ AC}$$

## 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.
- 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 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.

## EROSION CONTROL MEASURES:

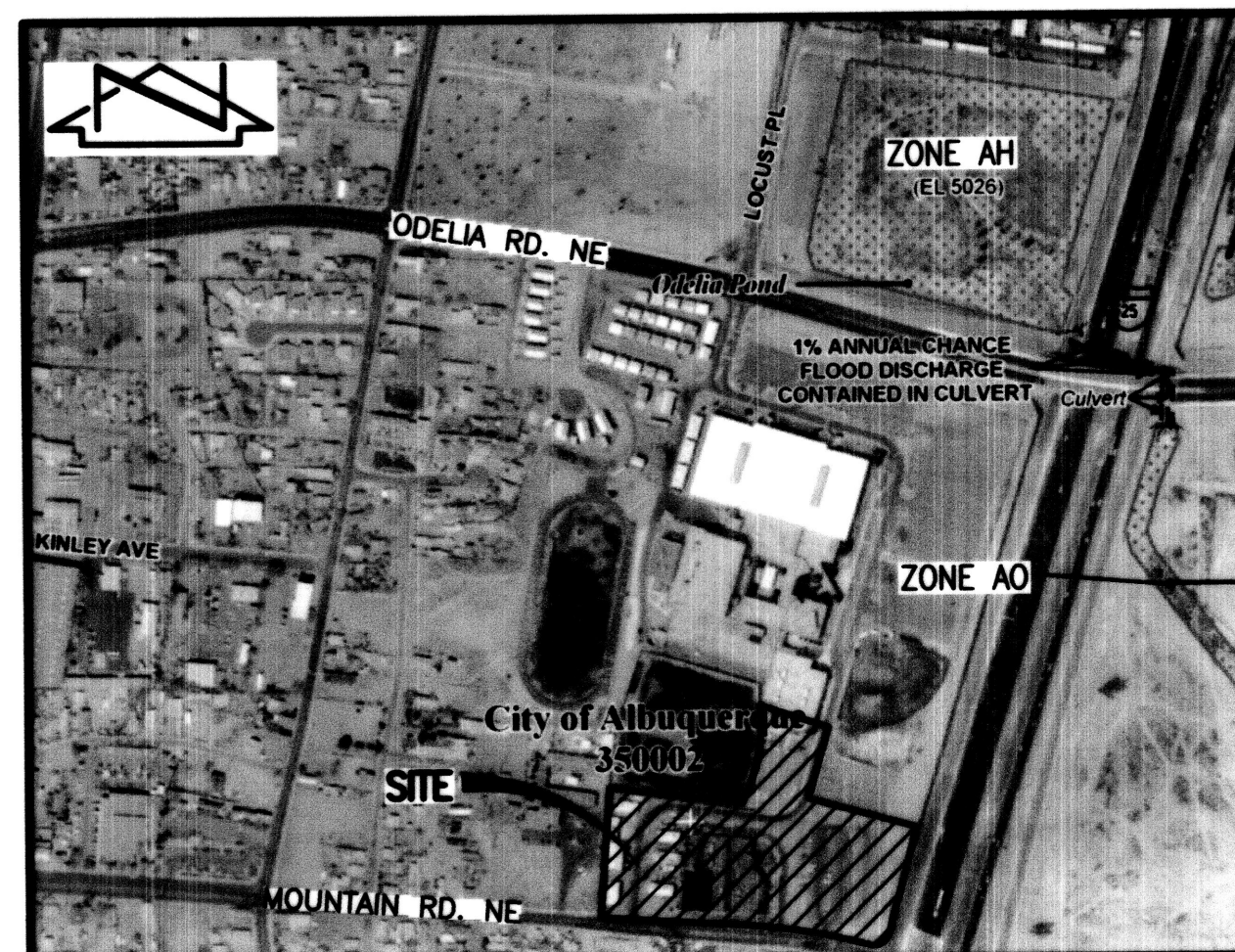
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, 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



## VICINITY MAP

SCALE: 1" = 750'

J-15



## F.I.R.M.

SCALE: 1" = 500'

332 of 825

DATE: 9-26-2008

## LEGAL DESCRIPTION

UNPLATTED TRACTS; SITE LOCATED WITHIN PROJECTED SECTION 16, TOWNSHIP 10 NORTH, RANGE 3 EAST, N.M.P.M. (TOWN OF ALBUQUERQUE GRANT).

## BENCHMARKS

### PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4" ALUMINUM DISK STAMPED "9-J15 1990", RIVETED TO AN ALUMINUM TUBE PROJECTING 0.25' ABOVE GRADE ON THE NORTH SIDE OF LOMAS BLVD. N.E. APPROXIMATELY 244' WEST OF THE INTERSECTION WITH LEGION ROAD N.E. ELEVATION = 5093.057 FEET (NAVD 88)

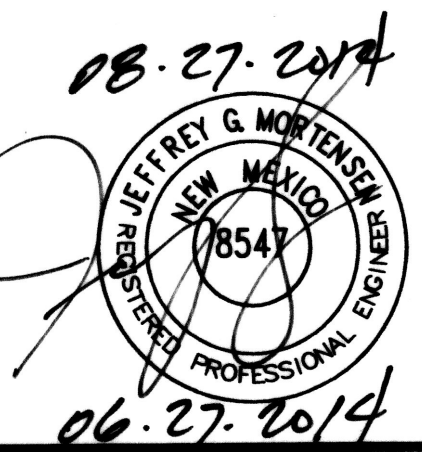
### TEMPORARY BENCHMARK #1 (T.B.M.)

A #5 REBAR WITH CONTROL CAP STAMPED "HMGCC CONTROL NMPS 11184", IN THE SOUTHEASTERN PORTION OF THE SITE, AS SHOWN ON SHEET 2. ELEVATION = 5043.15 FEET (NAVD 88)

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

A #5 REBAR WITH CONTROL CAP STAMPED "HMGCC CONTROL NMPS 11184", IN THE NORTHWESTERN PORTION OF THE SITE, AS SHOWN ON SHEET 2. ELEVATION = 5026.87 FEET (NAVD 88)

RECORD DRAWING



DESIGNED BY	CHKD	DATE	BY	REVISIONS	JOB NO.
J.G.M.	✓	08/14	J.G.M.	CORRECT 2-YEAR VOLUME CALC.	2013.184.2
DRAWN BY					DATE
J.Y.R.					06-2014
APPROVED BY					SHEET
J.G.M.					9 OF 14

**HIGH MESA Consulting Group**

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109  
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

**DRAINAGE PLAN AND CALCULATIONS  
PORTABLE CLASSROOM RELOCATIONS  
CAREER ENRICHMENT CENTER  
807 MOUNTAIN ROAD NE.**



CITY OF ALBUQUERQUE  
DEVELOPMENT & BUILDING SERVICES CENTER  
PLANNING DEPARTMENT/HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: J15/D001 DATE: 04-30-2014  
CROSS REFERENCE NUMBERS: EPC \_\_\_\_\_ DRB \_\_\_\_\_ DRC \_\_\_\_\_  
SUBJECT: PORTABLE CLASSROOM RELOCATIONS  
STREET ADDRESS: 807 MOUNTAIN ROAD NE  
SUBDIVISION NAME: UNPLATTED LANDS OF APS KNOWN AS ALBUQUERQUE HIGH SCHOOL SITE

TYPE OF APPROVAL

PRELIMINARY PLAT \_\_\_\_\_ FINAL PLAT \_\_\_\_\_  
SITE DEVELOPMENT PLAN \_\_\_\_\_ ☒ BUILDING PERMIT \_\_\_\_\_  
OTHER \_\_\_\_\_ ROUGH GRADING \_\_\_\_\_

ATTENDEE: ORGANIZATION: PHONE:  
CURTIS CHERNE HYDROLOGY 924-3986  
JEFF MORTENSEN HMC 345-4250

FINDINGS:

1. BACKGROUND - PORTABLE CLASSROOM BUILDINGS MUST BE RELOCATED ON THE SITE IN ADVANCE OF A PERMANENT BUILDING ADDITION ON THE WEST SIDE OF THE EXISTING BUILDING.
2. SEPARATE DRAINAGE SUBMITTALS ARE REQUIRED FOR THE PORTABLE BUILDING RELOCATIONS AND THE PERMANENT CLASSROOM BUILDING
3. THE RELOCATION OF THE PORTABLE BUILDINGS IS TEMPORARY UNTIL THE NEW BUILDING IS COMPLETE AFTER WHICH THE PORTABLES WILL BE RELOCATED OFF SITE.
4. LID FEATURES ARE NOT REQUIRED FOR THE PORTABLE CLASSROOM BUILDING RELOCATION PROJECT AS IT IS TEMPORARY AND THE BUILDINGS WILL LIKELY BE PLACED IN AN EXISTING PAVED AREA ON THE ALBUQUERQUE HS PORTION OF THE OVERALL PROPERTY. THE PERMANENT BUILDING PROJECT WILL NEED TO ADDRESS LONGTERM LID REQUIREMENTS (SEPARATE SUBMITTAL AS REFERENCED ABOVE).
5. SEPARATE GRADING AND DRAINAGE PLANS REQUIRED FOR BUILDING PERMIT APPROVALS.
6. REFERENCE DRAINAGE MASTER PLAN FOR SITE PREPARED BY HMC DATED 07-27-2008. ADDRESS HOW PROPOSED PORTABLE RELOCATION PLAN COMPLIES WITH DRAINAGE MASTER PLAN ON A BASIN BY BASIN BASIS (I.E. AFFECTED BASINS ONLY).
7. VERIFICATION OF DOWNSIDE CAPACITY NOT REQUIRED HOWEVER SHOULD BE ADDRESSED QUALITATIVELY (I.E. MUST COMPLY WITH THE MDP DRAINAGE CONCEPT OF REDUCING DISCHARGE FROM THE SITE)
8. IF THE PROJECT DISTURBS GREATER THAN ONE ACRE OF LAND, AN EROSION AND SEDIMENT CONTROL PLAN IS REQUIRED AS A CONDITION FOR BUILDING PERMIT APPROVAL. THIS IS A SEPARATE SUBMITTAL IN ADDITION TO THE GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT.
9. BMPs ARE REQUIRED TO MITIGATE THE DISCHARGE OF SEDIMENT FROM THE EXISTING PORTABLE FOR THE INTERIM TIME PERIOD UNTIL THE BUILDING PERMIT FOR THE PERMANENT BUILDING IS ISSUED.
10. ABOVE REFERENCED BMPs CAN CONSIST OF SILT FENCE, WADDLES AND EARTHEN BERMS
11. SUPPORTING CALCULATIONS REQUIRED TO DEMONSTRATE RUNOFF FROM THE 2-YEAR EVENT CAN BE CONTAINED

THE UNDERSIGNED AGREE THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE ONLY SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THE FINDINGS ARE NOT REASONABLE OR THAT THEY ARE BASED UPON INACCURATE INFORMATION.

SIGNED: [Signature] SIGNED: [Signature]  
TITLE: HYDROLOGY (COA) TITLE: CONSULTANT  
DATE: 5-29-14 DATE: 05-29-2014  
HMC #2011184.2

NOTE: PROVIDE A COPY OF THIS RECAP WITH DRAINAGE SUBMITTAL

**ENGINEER'S DRAINAGE CERTIFICATION FOR TEMPORARY C.O.**

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 06/27/2014 WITH EXCEPTIONS AS NOTED BELOW. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS EITHER BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AS SUPPLEMENTAL SITE DATA COMBINED WITH RECORD INFORMATION OBTAINED FROM THE VERIFICATION SURVEY CONDUCTED 08/04/2014 AND 08/05/2009 UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., NMPS 11184, OF THE FIRM HIGH MESA CONSULTING GROUP, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR TEMPORARY CERTIFICATE OF OCCUPANCY.

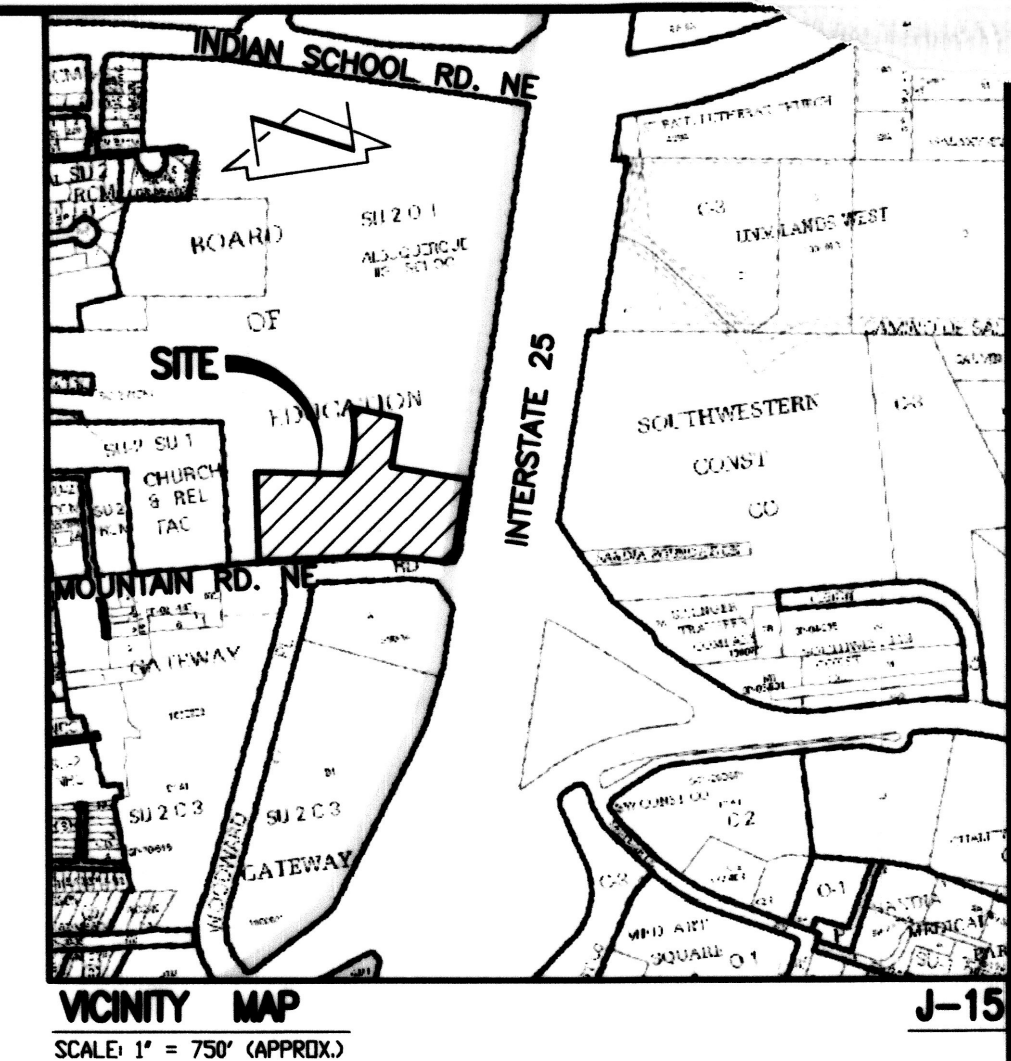
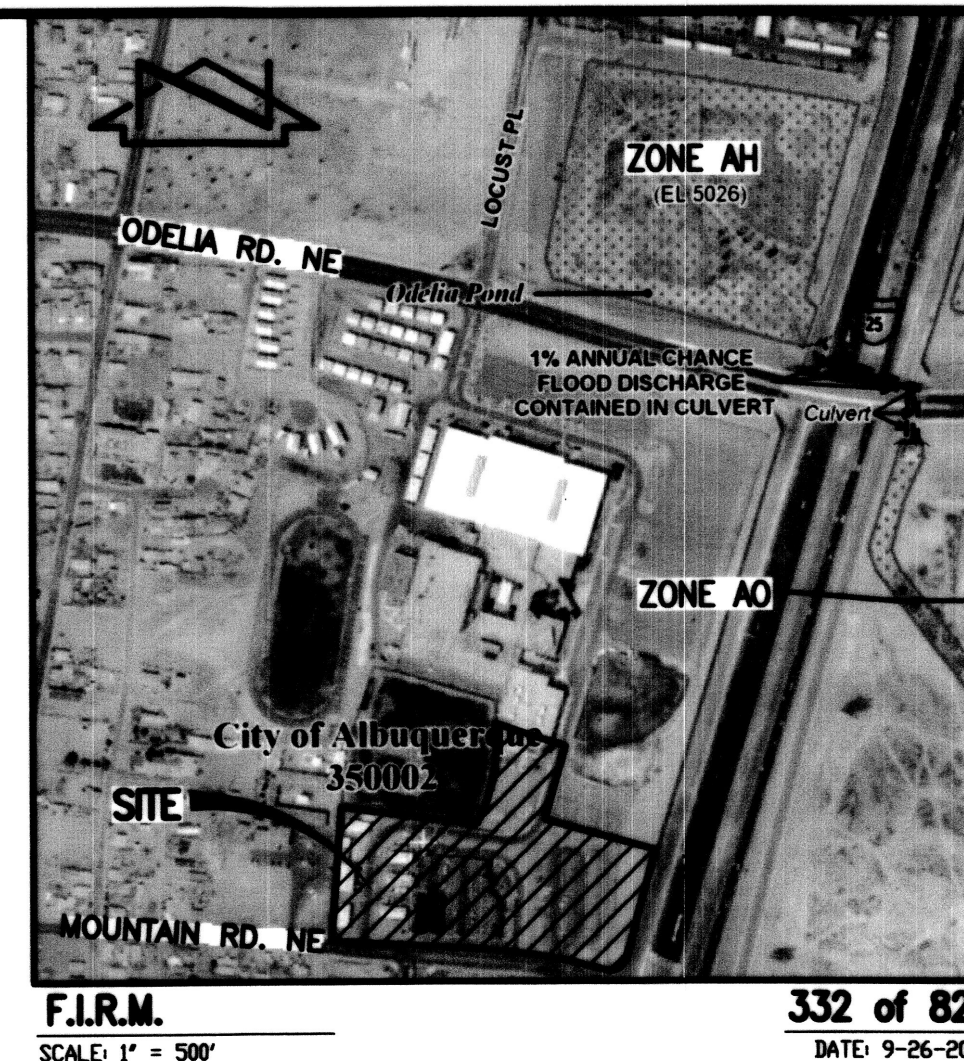
THE FOLLOWING EXCEPTIONS ARE NOTED AS THE RESULT OF VISUAL SITE INSPECTIONS CONDUCTED 08-25-2014 AND 08-26-2014:

1. THE STORMWATER RETENTION/SEDIMENT DETENTION POND HAS NOT BEEN GRADED. GRADING IS PENDING REMOVAL AND RELOCATION OF THE EXISTING UTILITIES WITHIN THAT PORTION OF THE PROJECT SITE.
2. WADDLES WERE NOT INSTALLED. INSTEAD, SEDIMENT WAS SWEEPED AND/OR OTHERWISE MANAGED TO PREVENT TRACKING AND AVOID DISCHARGE FROM THE SITE.

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 DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. A SEPARATE CERTIFICATION IS REQUIRED TO SUPPORT A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

[Signature]  
JEFFREY G. MORTENSEN, NMPE 8547

DATE: 08-27-2014



CONSTRUCTION NOTES:

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LEGAL DESCRIPTION

UNPLATTED TRACTS: SITE LOCATED WITHIN PROJECTED SECTION 16, TOWNSHIP 10 NORTH, RANGE 3 EAST, N.M.P.M. (TOWN OF ALBUQUERQUE GRANT).

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4" ALUMINUM DISK STAMPED "9-J15 1990", RIVETED TO AN ALUMINUM TUBE PROJECTING 0.25" ABOVE GRADE ON THE NORTH SIDE OF LOMAS BOULEVARD N.E. APPROXIMATELY 244' WEST OF THE INTERSECTION WITH LEGION ROAD N.E. ELEVATION = 5093.057 FEET (NAVD 88)

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

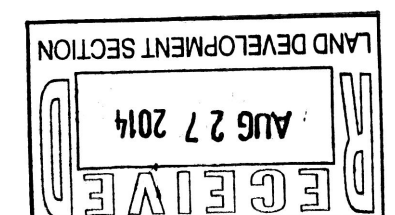
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HYDROLOGY FILE NO:

J15/D001



INDEX OF DRAWINGS

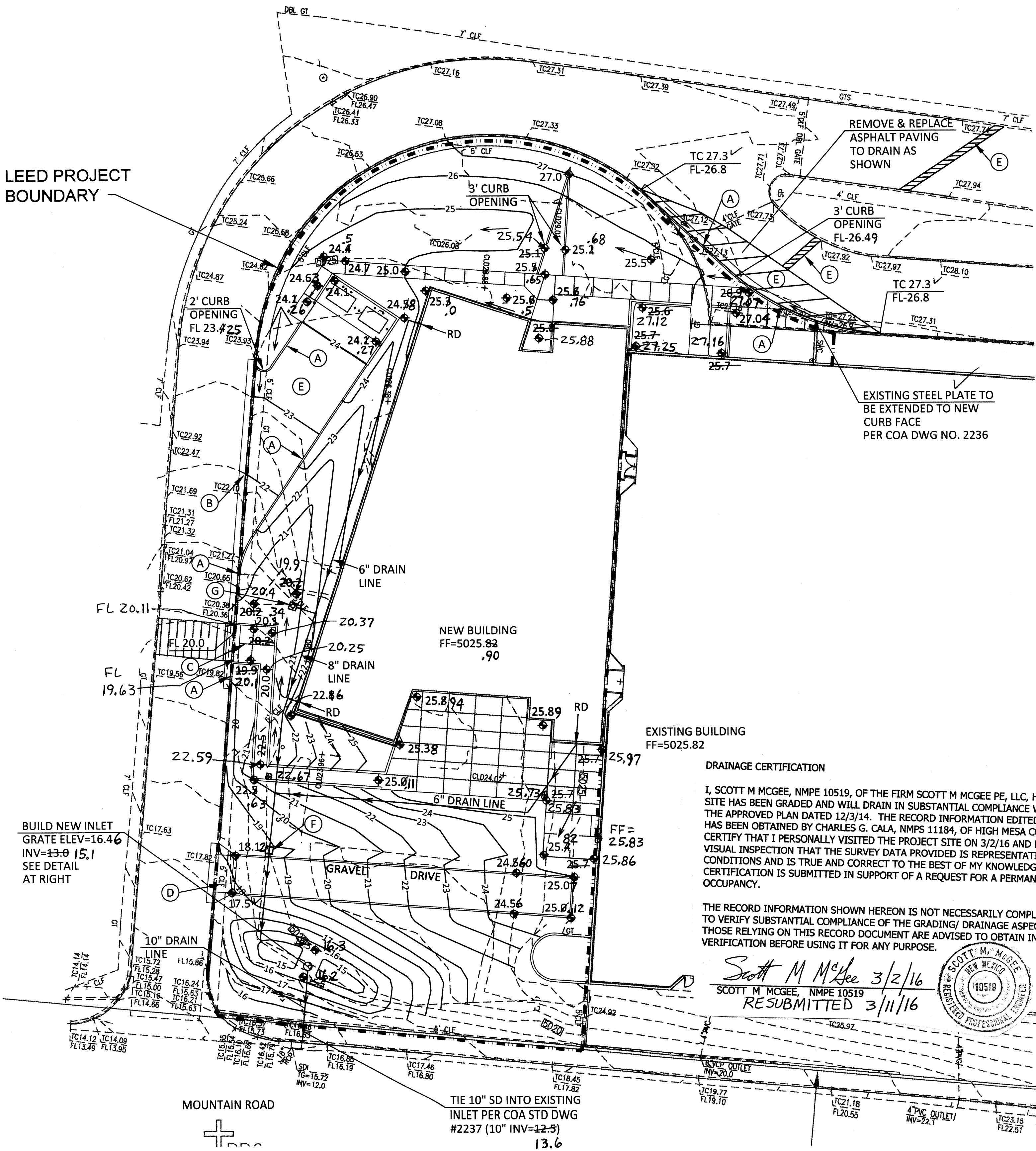
SHEET NO.	DESCRIPTION
1 OF 14	SUPPLEMENTAL SITE AND DRAINAGE INFORMATION
2 OF 14	OVERALL PLAN (FOR ORIENTATION)
3 OF 14	DEMOLITION PLAN - SOUTH
4 OF 14	DEMOLITION PLAN - NORTH
5 OF 14	SITE PLAN
7 OF 14	GRADING PLAN - SOUTH
8 OF 14	GRADING PLAN - NORTH
9 OF 14	DRAINAGE PLAN AND CALCULATIONS
13 OF 14	TYPICAL APS PORTABLE CLASSROOM FOUNDATION PLAN

NO.	DATE	BY	REVISIONS	JOB NO.
1	08/14	J.G.M.	DRAINAGE CERTIFICATION FOR TEMPORARY C.O.	2013.184.2
				DATE 06-2014
				SHEET 1 OF 1



GRADING NOTE

ALL PROPOSED GRADES SHOWN ON LANDSCAPE AREAS REPRESENT FINISH GRADE. SUBGRADE SHALL BE 4" LOWER TO ALLOW FOR XERIC LANDSCAPE SURFACING TO BE INSTALLED BY OTHERS.



GRADING PLAN

1" = 20 FT

0 20' 40'

LEGEND

- EXISTING CONTOUR LINE
- NEW CONTOUR LINE
- TC TOP OF CURB
- FL FLOW LINE
- FF = 5025.82 FINISH FLOOR ELEVATION
- 25.4 SPOT ELEVATION
- LEED BOUNDARY
- X 24.8 AS-BUILT ELEVATION

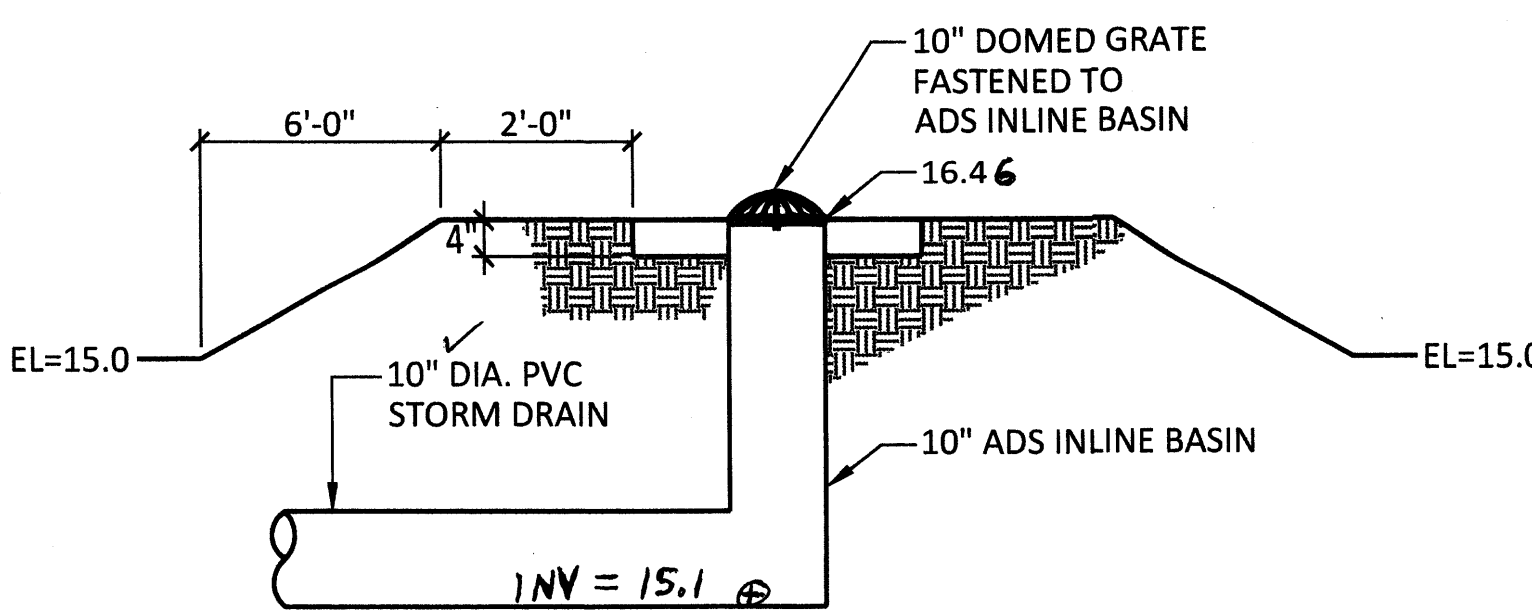
KEYED NOTES

- A. BUILD NEW 6" HIGH MEDIAN CURB & GUTTER PER COA STD DWG NO. 2415B.
- B. BUILD NEW 2' WIDE CONCRETE ALLEY GUTTER PER COA STD DWG NO. 2411.
- C. BUILD NEW CURB ACCESS AT MAXIMUM 2% SLOPE AS SHOWN WITH TACTILE WARNING STRIP PER ADA.
- D. BUILD NEW 13' WIDE BY 5' DEEP DRIVEPAD WITH 3' FLARES PER COA STD DWG NO. 2425.
- E. PLACE 3" ASPHALT PAVEMENT OVER 6" AGGREGATE BASE COURSE OVER COMPACTED SUBGRADE.
- F. BUILD NEW 8" ADS INLINE DRAIN BASIN WITH DOMED GRATE.
- G. BUILD NEW 8" ADS DRAIN BASIN WITH DOMED GRATE AND 8" CONNECTOR PIPE TO ROOF DRAIN LINE AS SHOWN.

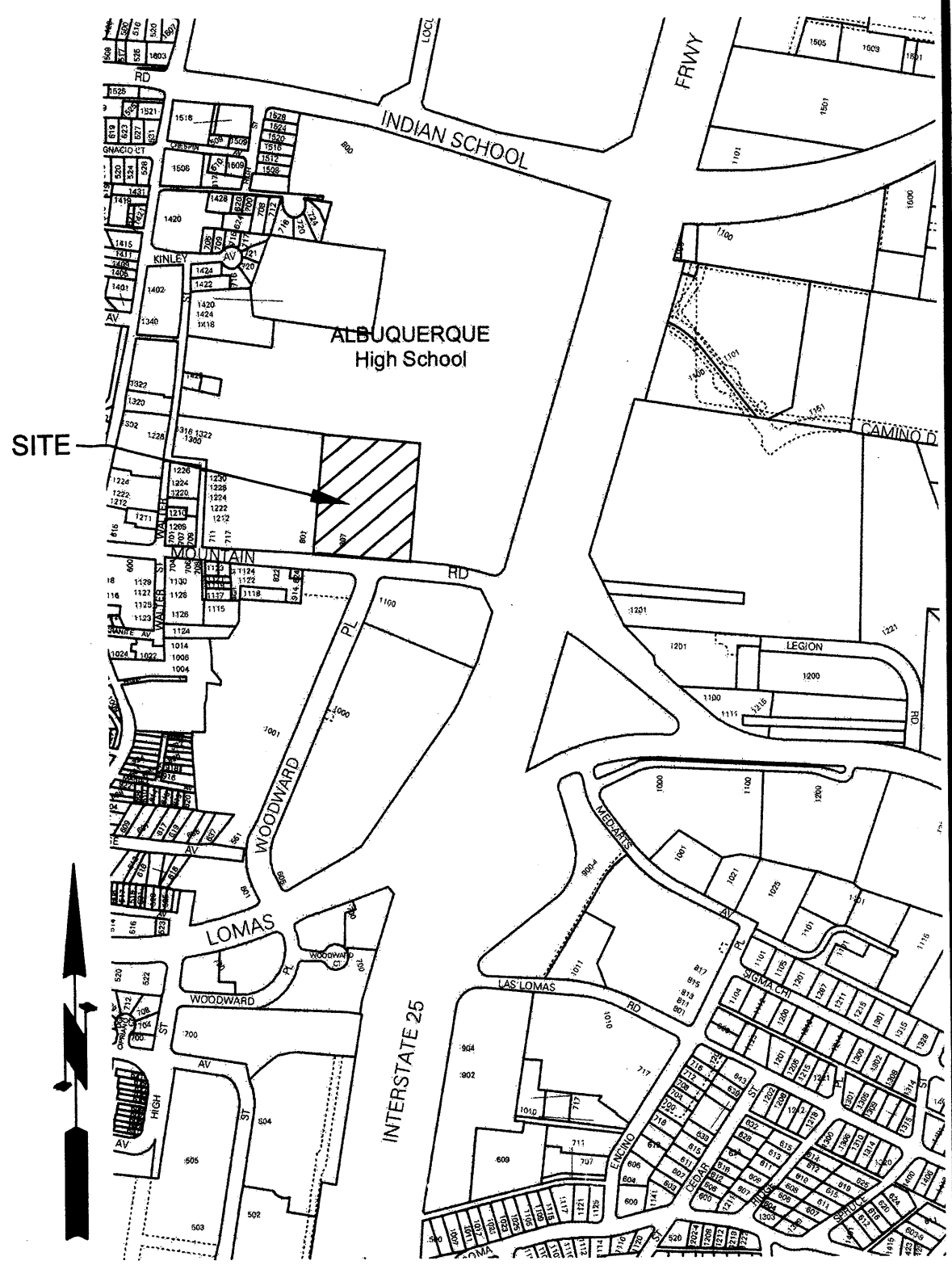
DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY NOTICE TO CONTRACTOR

- An excavation permit will be required before beginning any work within City Right-Of-Way.
- 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.
- Two working days prior to any excavation, the contractor must contact the line locating service, New Mexico One Call 260-1990, (NM one call "811") for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets shall be performed on a 24-hour basis.

1 INLET PLAN



2 INLET SECTION



VICINITY MAP

J-15

DRAINAGE

LEGAL: A southerly portion of the tract BOARD OF EDUCATION (aka Career Enrichment Center)

AREA: LEED boundary portion of site this project -- 0.77 acres (33,525 sf)

BENCHMARK: ACS brass disk "9-J15 1990" set on the north side of Lomas Blvd NE approximately 244' west of Legion Road NE. ELEV= 5093.057 (NAVD 1988)

TBM: a #5 rebar with cap as shown in the northwest corner of the site. ELEV= 5026.87 (NAVD 1988)

SURVEYOR: High Mesa Consulting Group dated March, 2013

FLOOD HAZARD: From FEMA Panel 35001C0332G (09/26/2008), this site is identified as being within Zone 'X' which is outside the 0.2% annual chance floodplain.

EXISTING CONDITIONS: The site is an existing school facility. The land west of the existing building to the existing asphalt access road is the area of the site affected. This area is presently four portable classroom buildings, dirt/gravel surfacing, and asphalt walkways that slope down from northeast to southwest.

FIRST FLUSH:  $Q = (0.44 - 0.10)(18,295)/12 = 518$  CF  
This volume will be provided in the detention pond located at the SW corner of the site as the storage depth of 1.4' provides 532 CF storage volume.

OFFSITE FLOWS: A portion of the existing building roof (6,000 SF), discharges runoff north which then flows west and passes through a curb opening north of the building. This drainage continues west through the landscaped area north of the addition.

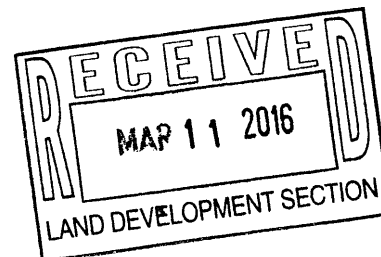
PROPOSED IMPROVEMENTS: The proposed addition is a 20,900 sf (2-story) building addition located adjacent to the west side of the existing building.

DRAINAGE APPROACH: The proposed drainage plan will follow historic flow paths and the approved Grading Plan. Building roof runoff will discharge to the west and south sides of the building. Site runoff will discharge in two different ways. The refuse access drive will surface flow south. The proposed roof area will discharge below grade and be piped to the proposed detention pond. Depressed landscape areas will convey surface flow along the west and south sides of the building to proposed area drains. The pond will discharge through a piped connection to an existing drop inlet on the north side of Mountain Road.

HYDROLOGY: For precipitation Zone 2 with 62% C & 38% D land treatment  
Existing  $Q = (0.477)(3.14) + (0.293)(4.70) = 2.9$  CFS

The proposed building, impervious plaza area, and walks are 55% of the area with the balance of the site considered as land treatment type 'C'. A subsequent APS project will landscape this site with 100% xeric surfacing.  
Proposed  $Q = (0.35)(3.14) + (0.42)(4.70) = 3.1$  CFS

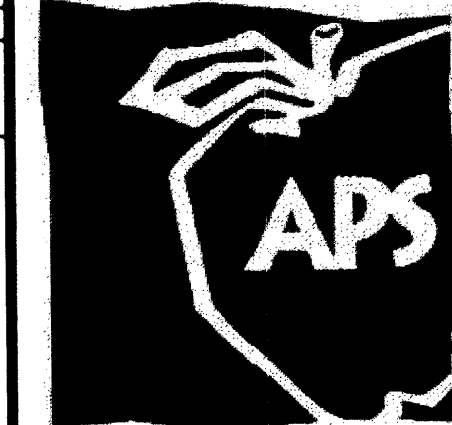
This minor runoff increase (0.2 CFS) will not have an adverse impact on downstream drainage facilities.



LEE GAMESKY ARCHITECTS P.C.  
2412 MILES ROAD SE  
ALBUQUERQUE, NM 87106  
505.842.8865 FAX 842.1693  
office@lgame.com



ALBUQUERQUE PUBLIC SCHOOLS  
CAREER ENRICHMENT CENTER  
807 MOUNTAIN RD. NE  
ALBUQUERQUE, NEW MEXICO 87102



MARK DATE DESCRIPTION

DATE: 12/08/2014

LGA PROJECT NO: 13-06-APS

APS PROJECT NO: 592.5107.31131

CAD DWG FILE:

MG-1401\_C101\_C102.DWG

DRAWN BY: CB

CHKD BY: SMM

COPYRIGHT: LEE GAMESKY ARCHITECTS P.C.

GRADING PLAN

C-101

SHEET 6 OF 133



GRADING NOTE

ALL PROPOSED GRADES SHOWN ON LANDSCAPE AREAS REPRESENT FINISH GRADE. SUBGRADE SHALL BE 4" LOWER TO ALLOW FOR XERIC LANDSCAPE SURFACING TO BE INSTALLED BY OTHERS.

LEGEND

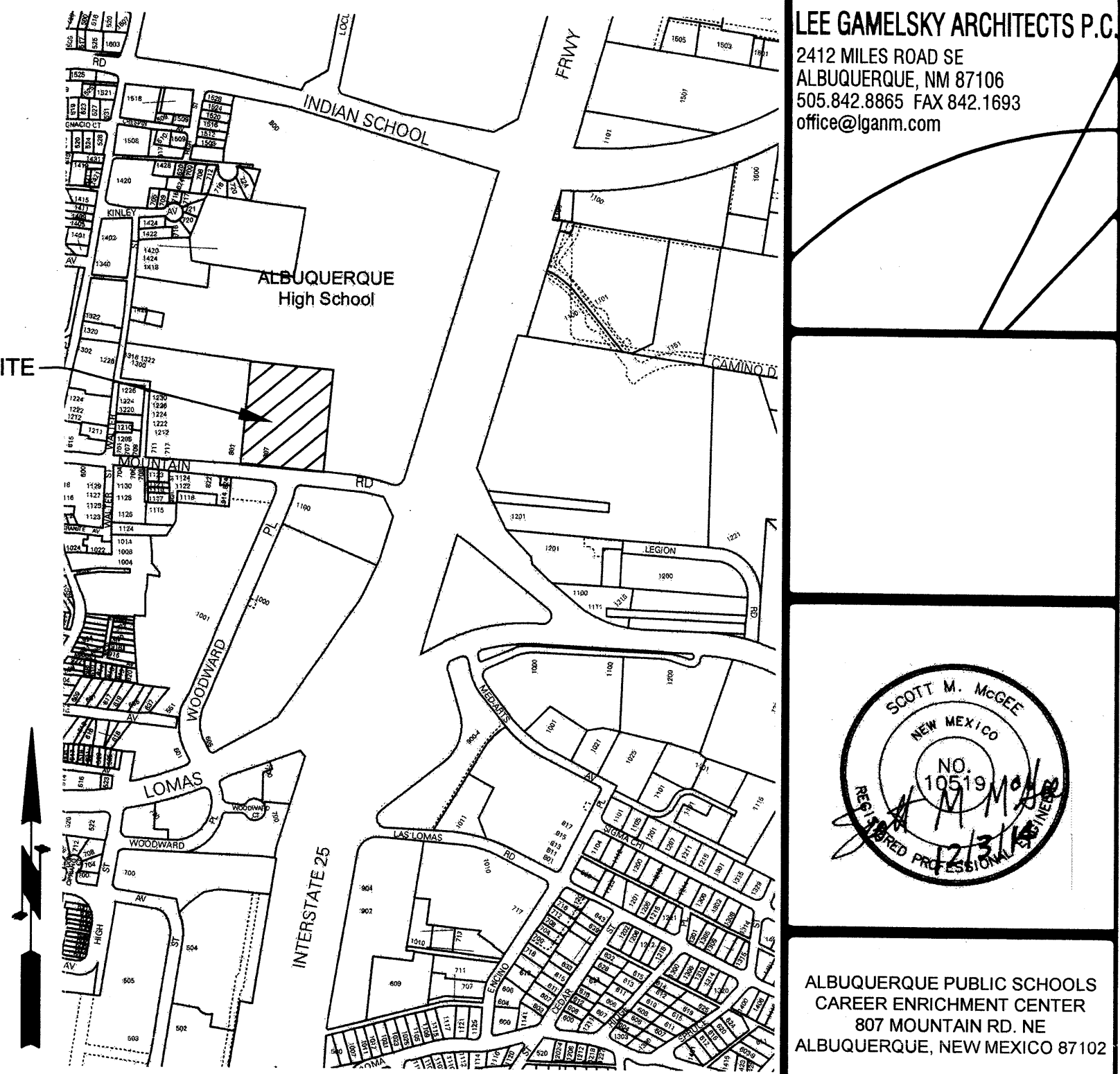
- EXISTING CONTOUR LINE
- NEW CONTOUR LINE
- TC  
FL  
TOP OF CURB  
FLOW LINE
- FF = 5025.82  
FINISH FLOOR ELEVATION
- 25.4  
SPOT ELEVATION
- LEED BOUNDARY
- x 24.8  
AS-BUILT ELEVATION

KEYED NOTES

- A. BUILD NEW 6" HIGH MEDIAN CURB & GUTTER PER COA STD DWG NO. 2415B.
- B. BUILD NEW 2' WIDE CONCRETE ALLEY GUTTER PER COA STD DWG NO. 2411.
- C. BUILD NEW CURB ACCESS AT MAXIMUM 2% SLOPE AS SHOWN WITH TACTILE WARNING STRIP PER ADA.
- D. BUILD NEW 13' WIDE BY 5' DEEP DRIVEPAD WITH 3' FLARES PER COA STD DWG NO. 2425.
- E. PLACE 3" ASPHALT PAVEMENT OVER 6" AGGREGATE BASE COURSE OVER COMPACTED SUBGRADE.
- F. BUILD NEW 8" ADS INLINE DRAIN BASIN WITH DOMED GRATE.
- G. BUILD NEW 8" ADS DRAIN BASIN WITH DOMED GRATE AND 8" CONNECTOR PIPE TO ROOF DRAIN LINE AS SHOWN.

DRAINAGE FACILITIES WITHIN CITY  
RIGHT-OF-WAY NOTICE TO CONTRACTOR

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- 5. Backfill compaction shall be according to traffic/street use.
- 6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
- 7. Work on arterial streets shall be performed on a 24-hour basis.



VICINITY MAP J-15

DRAINAGE

LEGAL: A southerly portion of the tract BOARD OF EDUCATION (aka Career Enrichment Center)

AREA: LEED boundary portion of site this project -- 0.77 acres (33,525 sf)

BENCHMARK: ACS brass disk "9-J15 1990" set on the north side of Lomas Blvd NE approximately 244' west of Legion Road NE. ELEV= 5093.057 (NAVD 1988)

TBM: a #5 rebar with cap as shown in the northwest corner of the site. ELEV= 5026.87 (NAVD 1988)

SURVEYOR: High Mesa Consulting Group dated March, 2013

FLOOD HAZARD: From FEMA Panel 35001C0332G (09/26/2008), this site is identified as being within Zone 'X' which is outside the 0.2% annual chance floodplain.

EXISTING CONDITIONS: The site is an existing school facility. The land west of the existing building to the existing asphalt access road is the area of the site affected. This area is presently four portable classroom buildings, dirt/gravel surfacing, and asphalt walkways that slope down from northeast to southwest.

FIRST FLUSH:  $Q=(0.44-0.10)(18,295)/12= 518$  CF  
This volume will be provided in the detention pond located at the SW corner of the site as the storage depth of 1.4' provides 532 CF storage volume.

OFFSITE FLOWS: A portion of the existing building roof (6,000 SF), discharges runoff north which then flows west and passes through a curb opening north of the building. This drainage continues west through the landscaped area north of the addition.

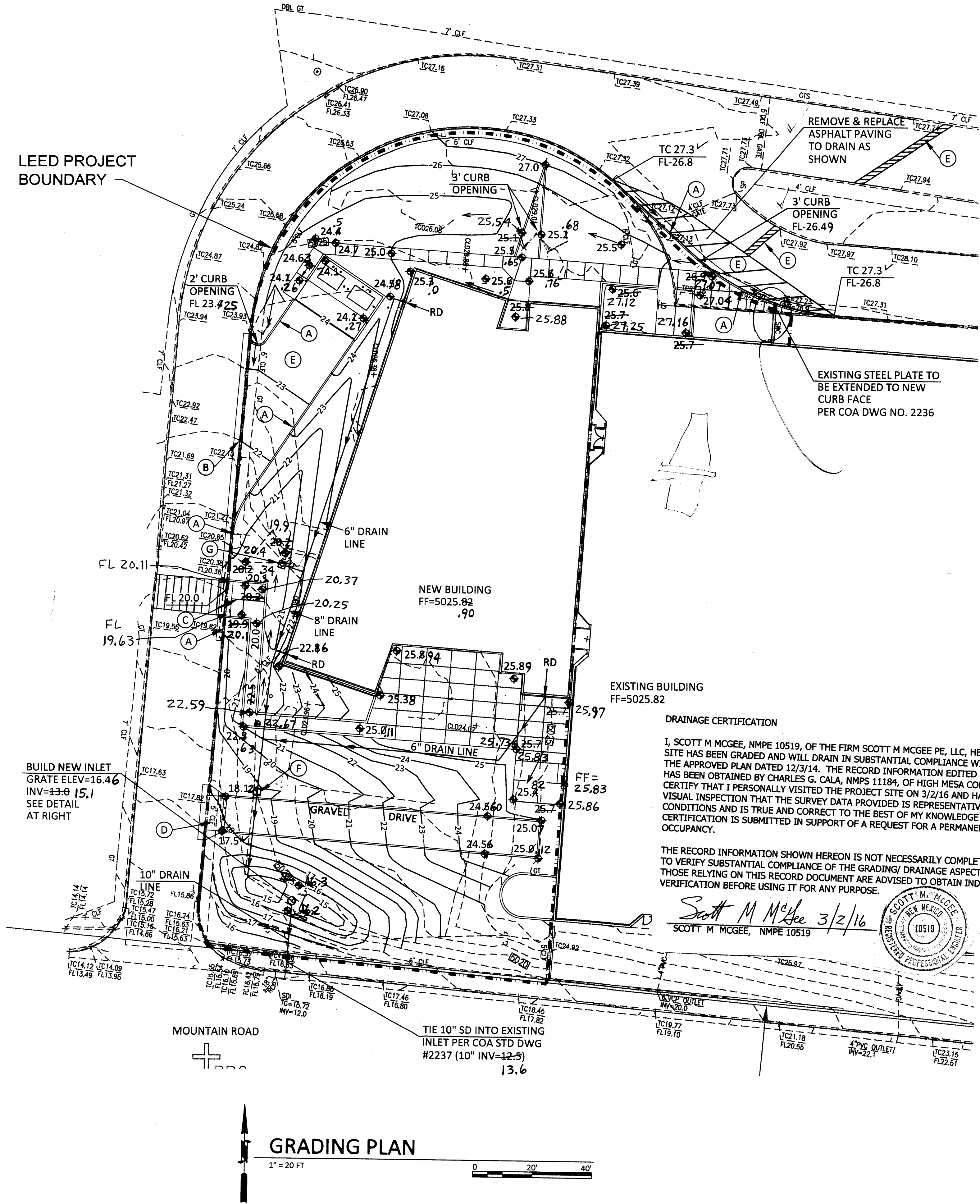
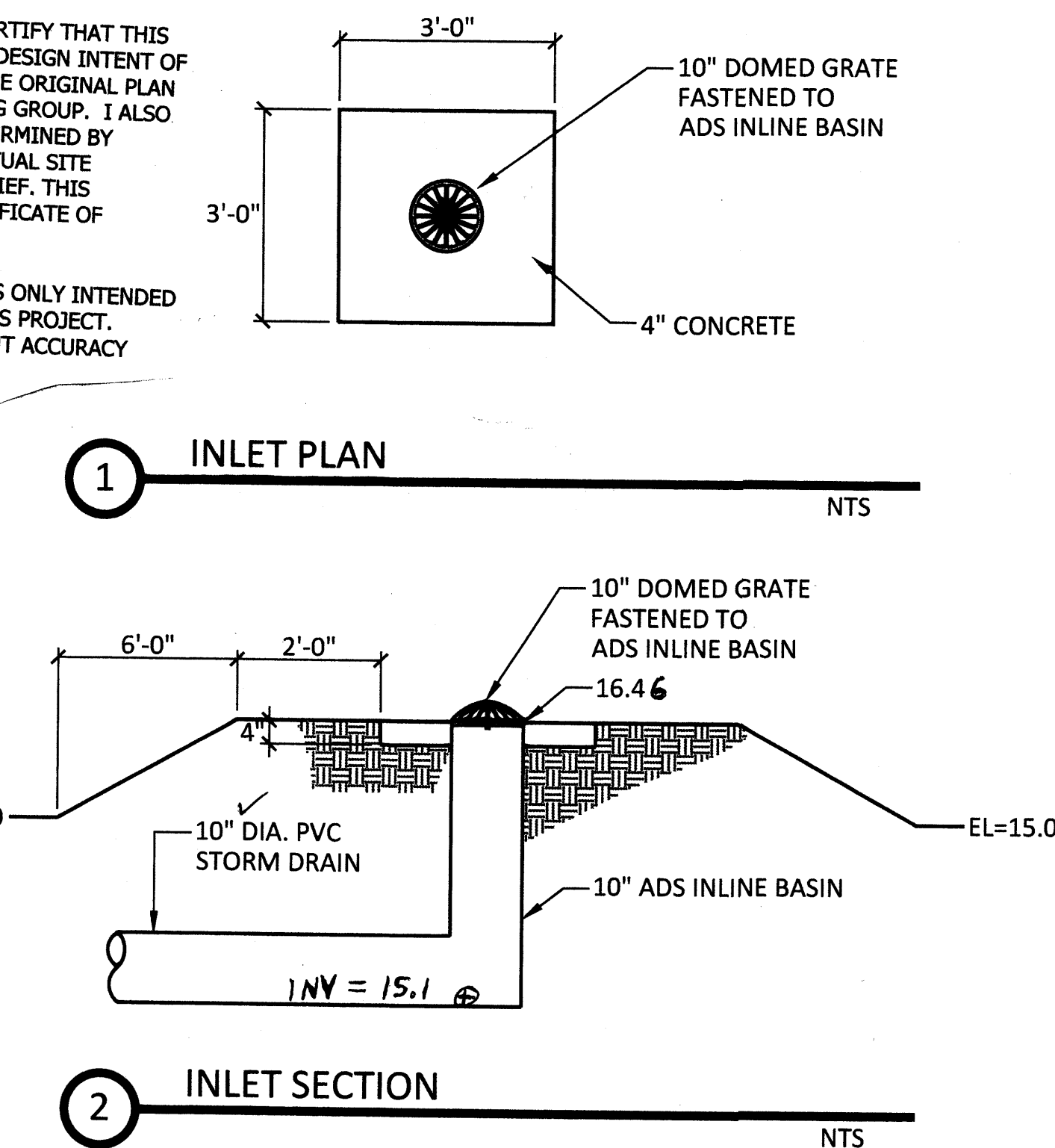
PROPOSED IMPROVEMENTS: The proposed addition is a 20,900 sf (2-story) building addition located adjacent to the west side of the existing building.

DRAINAGE APPROACH: The proposed drainage plan will follow historic flow paths and the approved Grading Plan. Building roof runoff will discharge to the west and south sides of the building. Site runoff will discharge in two different ways. The refuse access drive will surface flow south. The proposed roof area will discharge below grade and be piped to the proposed detention pond. Depressed landscape areas will convey surface flow along the west and south sides of the building to proposed area drains. The pond will discharge through a piped connection to an existing drop inlet on the north side of Mountain Road.

HYDROLOGY: For precipitation Zone 2 with 62% C & 38% D land treatment  
Existing  $Q= (0.477)(3.14)+(0.293)(4.70)= 2.9$  CFS

The proposed building, impervious plaza area, and walks are 55% of the area with the balance of the site considered as land treatment type 'C'. A subsequent APS project will landscape this site with 100% xeric surfacing. Proposed  $Q= (0.35)(3.14)+(0.42)(4.70)= 3.1$  CFS

This minor runoff increase (0.2 CFS) will not have an adverse impact on downstream drainage facilities.

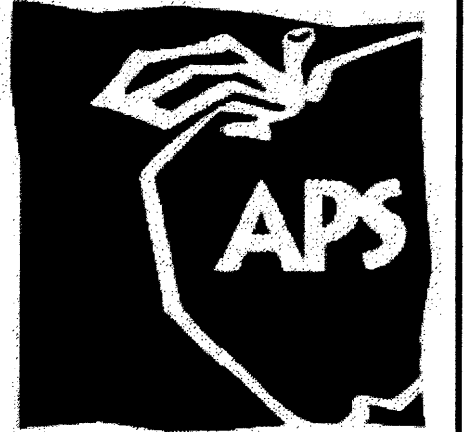


GRADING PLAN

LEE GAMESKY ARCHITECTS P.C.  
2412 MILES ROAD SE  
ALBUQUERQUE, NM 87106  
505.842.8865 FAX 842.1693  
office@lganm.com



ALBUQUERQUE PUBLIC SCHOOLS  
CAREER ENRICHMENT CENTER  
807 MOUNTAIN RD. NE  
ALBUQUERQUE, NEW MEXICO 87102



MARK	DATE	DESCRIPTION
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DATE: 12/08/2014  
LGA PROJECT NO: 13-06-APS  
APS PROJECT NO: 592.5107.31131

CAD DWG FILE:  
MG-1401\_C101\_C102.DWG

DRAWN BY: CB  
CHKD BY: SMM

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GRADING PLAN

C-101

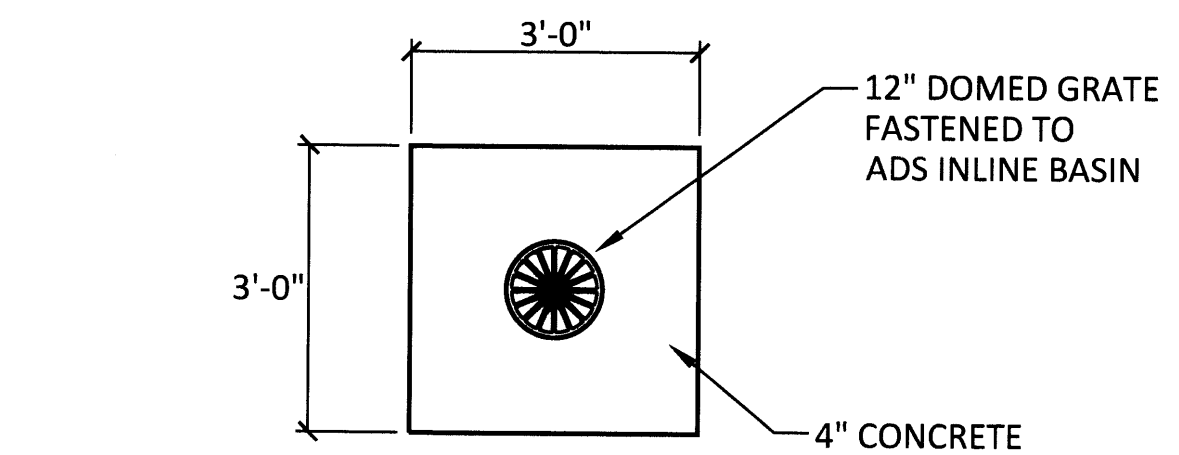


DRAINAGE FACILITIES WITHIN CITY  
RIGHT-OF-WAY NOTICE TO CONTRACTOR

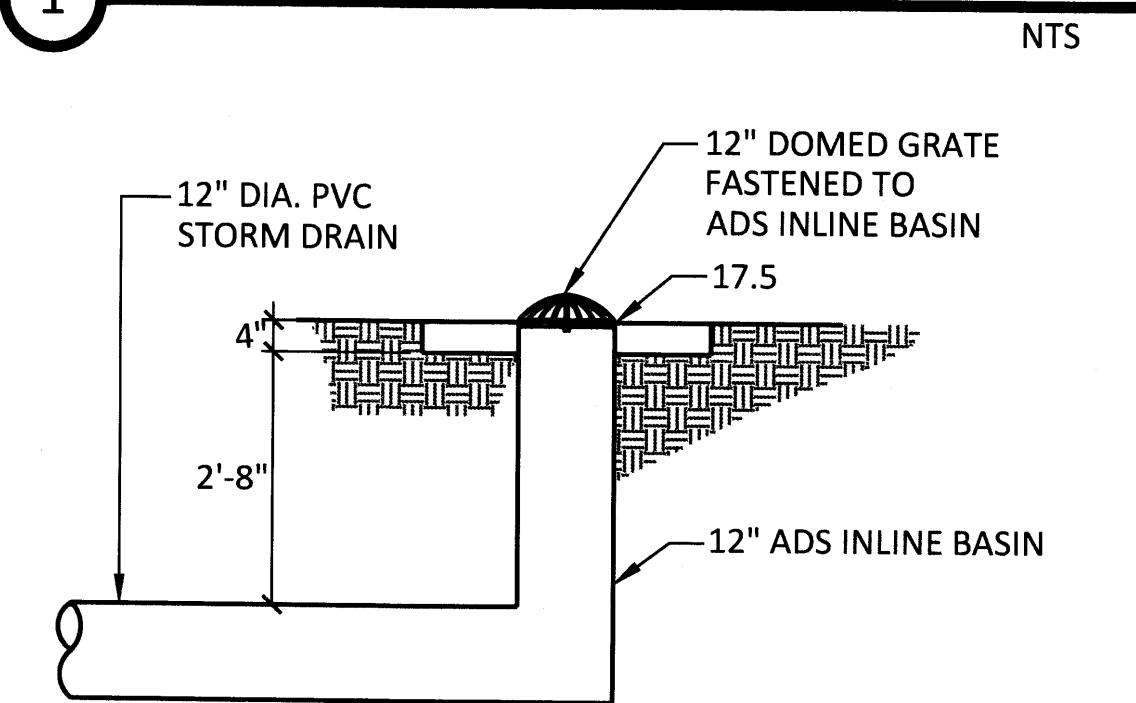
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5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets shall be performed on a 24-hour basis.

LEGEND

- EXISTING CONTOUR LINE
- NEW CONTOUR LINE
- TC TOP OF CURB
- FL FLOW LINE
- FF = 5025.82 FINISH FLOOR ELEVATION
- SPOT ELEVATION
- LEEDS BOUNDARY

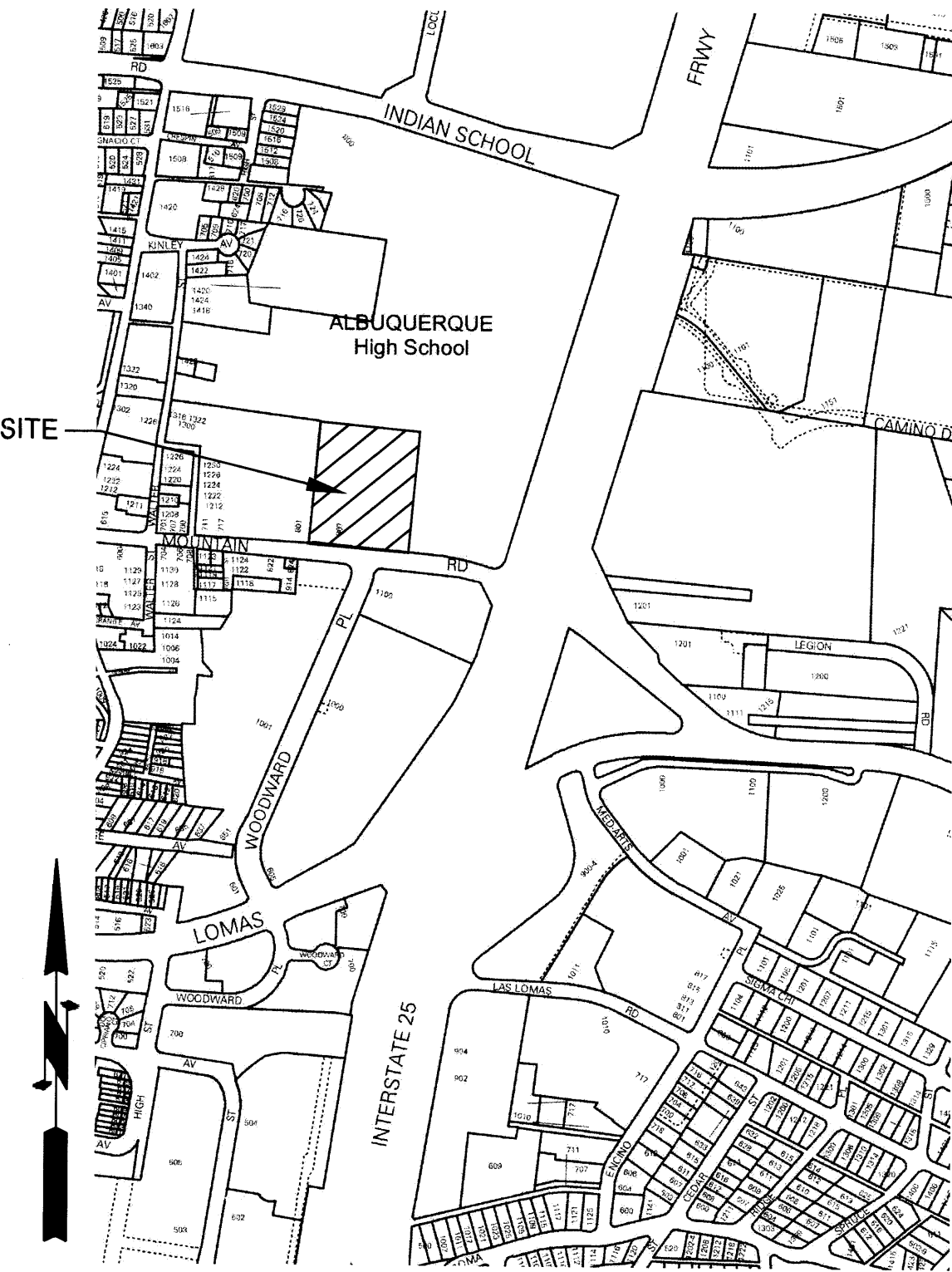
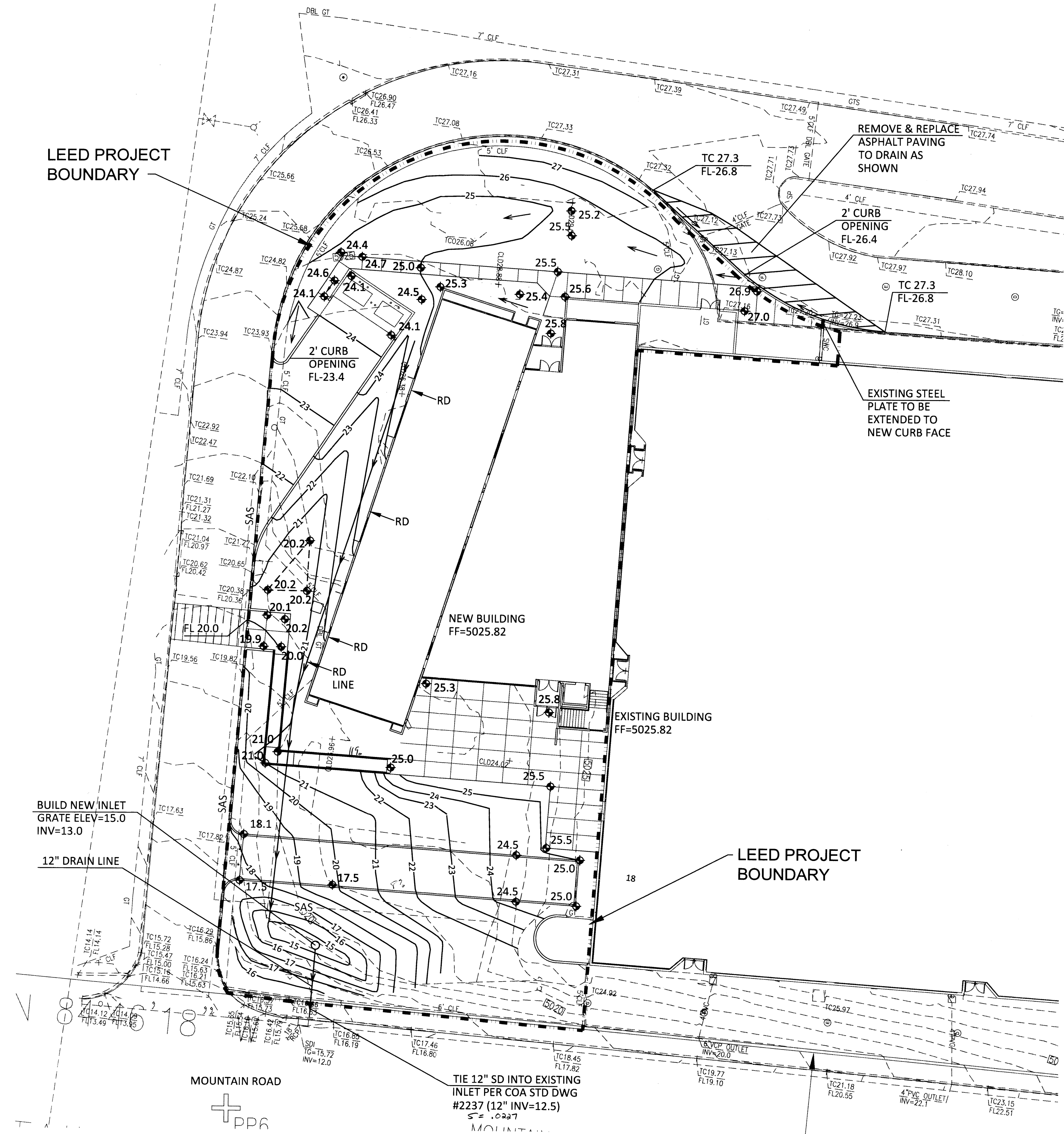


1 INLET PLAN



2 INLET SECTION

NTS



VICINITY MAP J-15

DRAINAGE

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TBM: a #5 rebar with cap as shown in the northwest corner of the site. ELEV= 5026.87 (NAVD 1988)

SURVEYOR: High Mesa Consulting Group dated March, 2013

FLOOD HAZARD: From FEMA Panel 35001C0332G (09/26/2008), this site is identified as being within Zone 'X' which is outside the 0.2% annual chance floodplain.

EXISTING CONDITIONS: The site is an existing school facility. The land west of the existing building to the existing asphalt access road is the area of the site affected. This area is presently four portable classroom buildings, dirt/gravel surfacing, and asphalt walkways that slopes down from northeast to southwest.

OFFSITE FLOWS: No offsite flow enters this area as all drainage is carried in the perimeter road around the project area.

PROPOSED IMPROVEMENTS: The proposed improvements include a 20,900 sf (2-story) building addition located adjacent to the west side of the existing building.

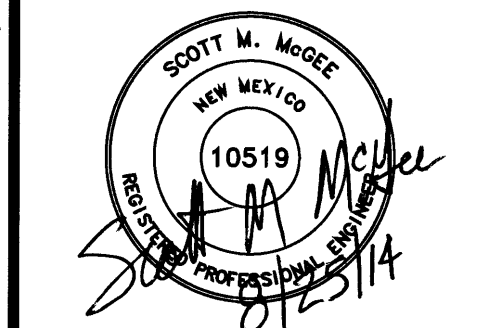
DRAINAGE APPROACH: The proposed drainage plan will follow historic flow paths and the approved Grading Plan. Building roof runoff will primarily discharge to the west and south sides of the building. Site runoff will discharge in two different ways. A small portion will surface flow south. The proposed roof area will discharge to the west side of the building and is then piped to the proposed detention pond. A depressed landscape area will convey surface flow along the west side of the building. The pond will then discharge through a piped connection to an existing drop inlet on the north side of Mountain Road.

HYDROLOGY: For precipitation Zone 2 with 62% C & 38% D land treatment  
Existing  $Q = (0.477)(3.14) + (0.293)(4.70) = 2.9$  CFS

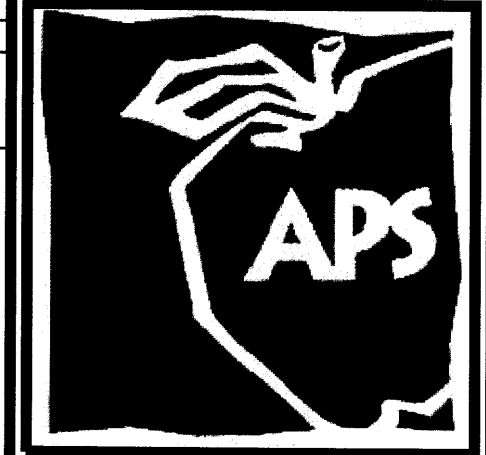
The proposed improvements include the building, impervious courtyard area, walks, and the shallow depressed area to the south of the proposed building.  
Proposed  $Q = (0.07)(2.28) + (0.31)(3.14) + (0.39)(4.70) = 3.0$  CFS

This minor runoff increase (0.1 CFS) will not have an adverse impact on downstream drainage facilities.

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ALBUQUERQUE PUBLIC SCHOOLS  
CAREER ENRICHMENT CENTER  
807 MOUNTAIN RD. NE  
ALBUQUERQUE, NEW MEXICO 87102



CONSTRUCTION  
DOCUMENTS  
SUBMITTAL  
PHASE

MARK DATE DESCRIPTION

DATE: 08/29/2014  
LGA PROJECT NO: 13-06-APS  
APS PROJECT NO: 592.5107.31131

CAD DWG FILE:  
MG-1401\_C101\_C102.DWG

DRAWN BY: CB  
CHK'D BY: SMM  
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GRADING  
PLAN

C-101

SHEET OF



GRADING NOTE

ALL PROPOSED GRADES SHOWN ON LANDSCAPE AREAS REPRESENT FINISH GRADE. SUBGRADE SHALL BE 4" LOWER TO ALLOW FOR XERIC LANDSCAPE SURFACING TO BE INSTALLED BY OTHERS.

LEGEND

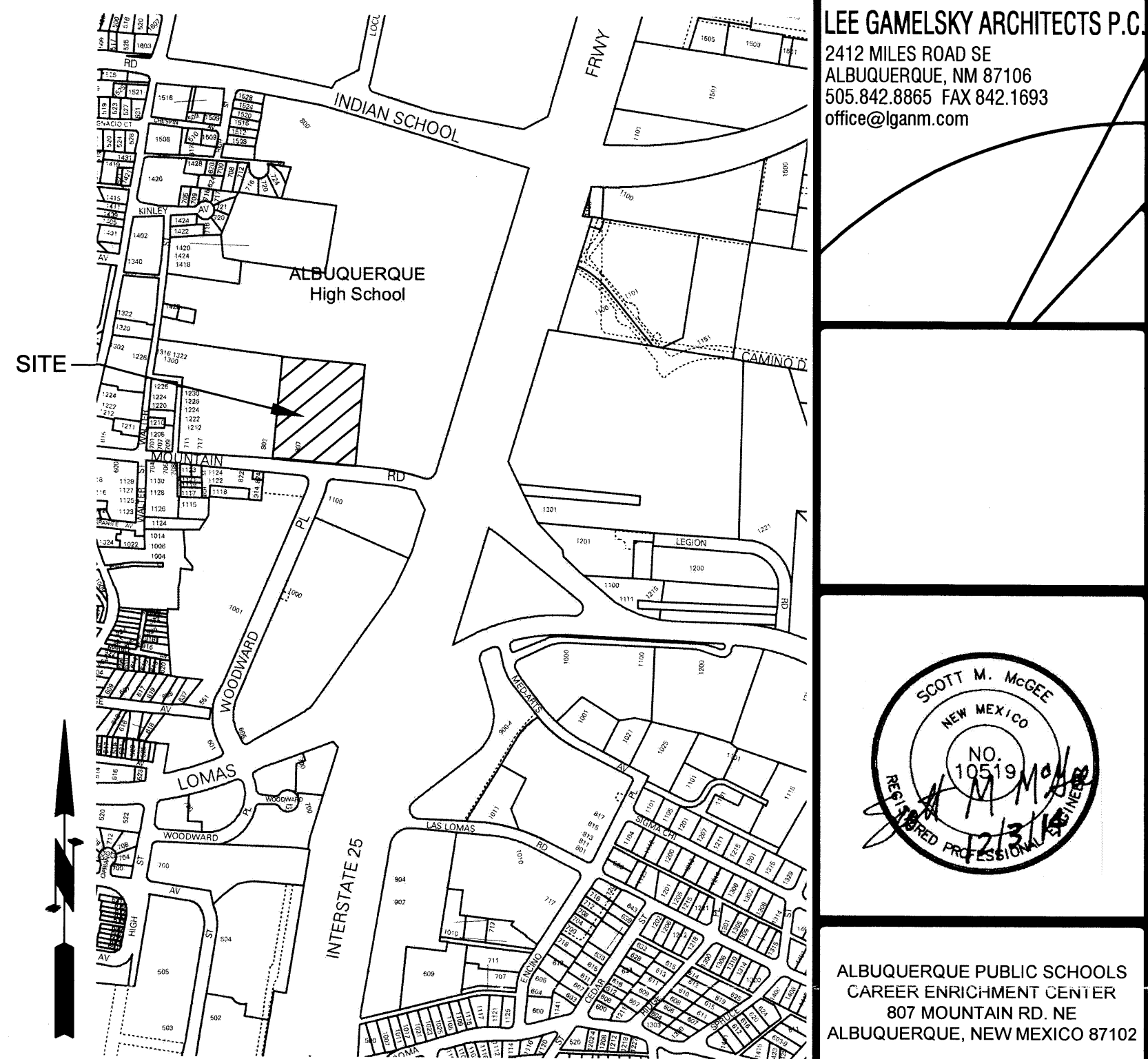
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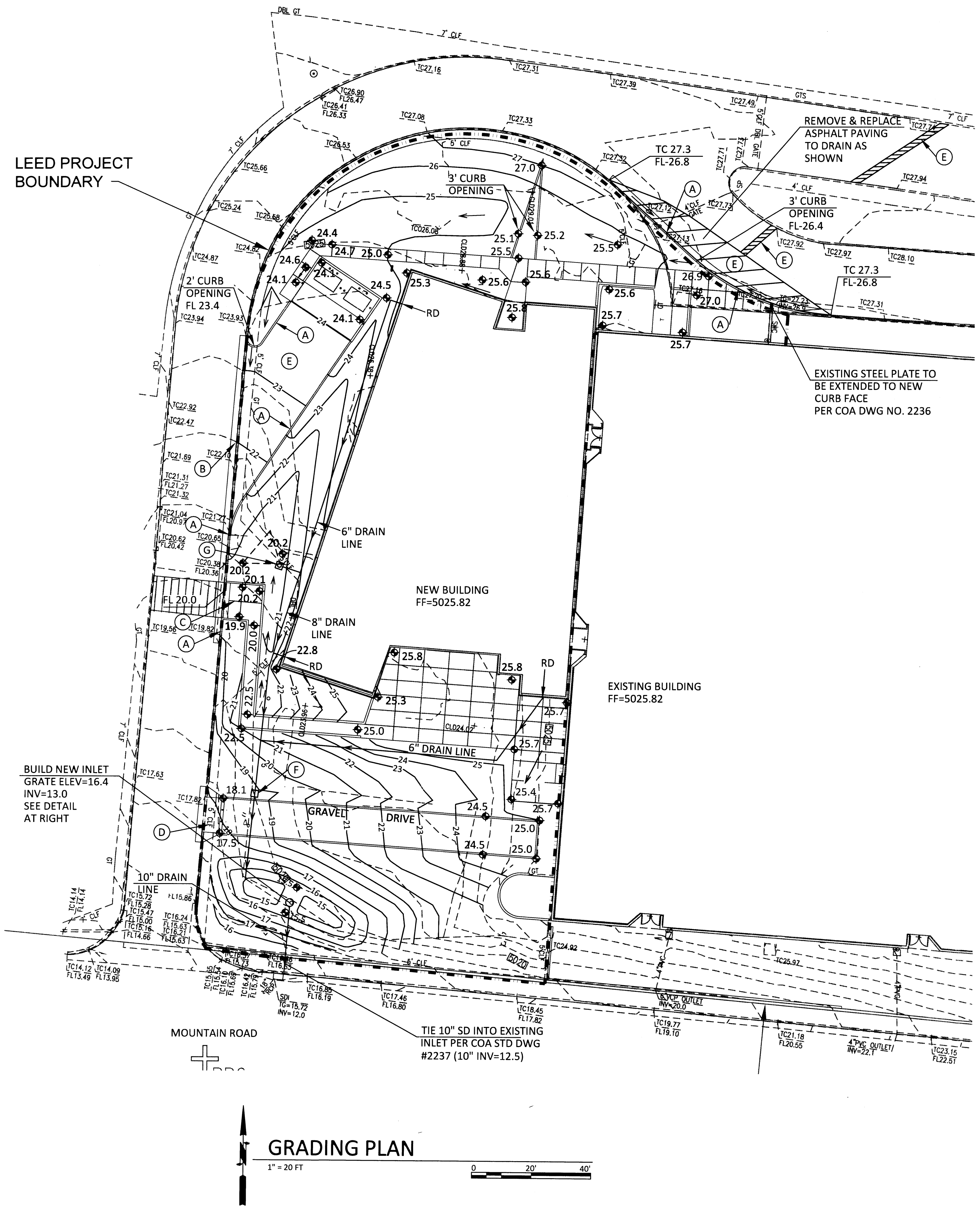
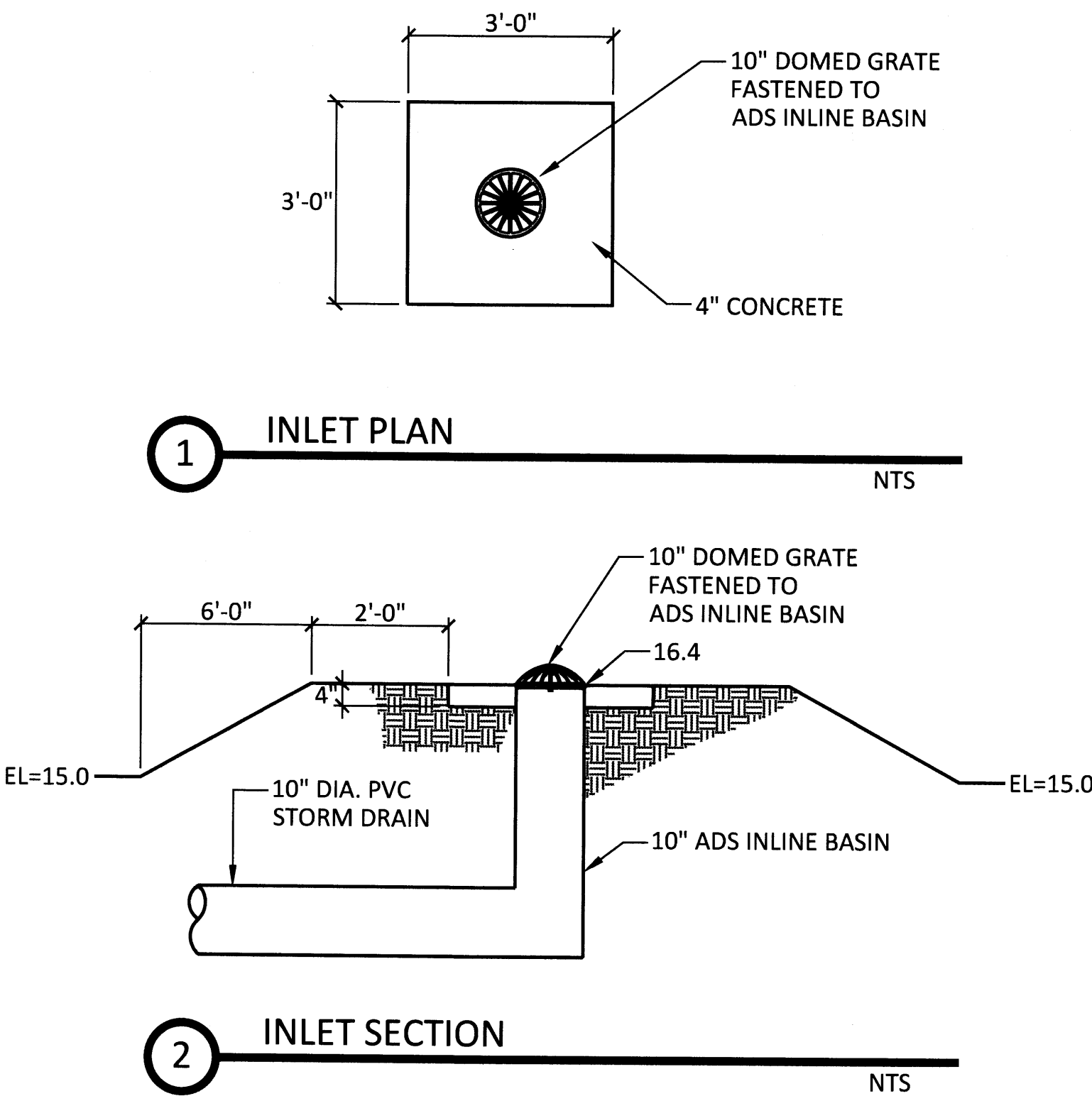
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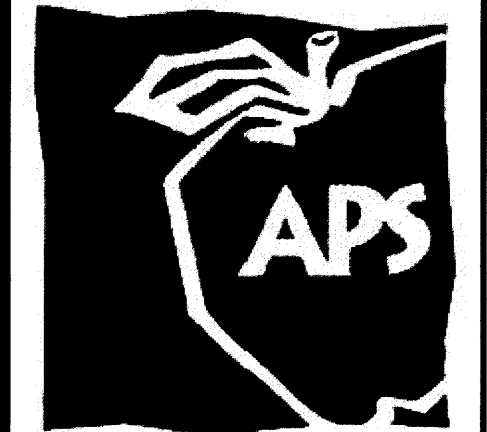
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MARK	DATE	DESCRIPTION
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DATE: 12/08/2014  
LGA PROJECT NO: 13-06-APS  
APS PROJECT NO: 582.5107.31131

CAD DWG FILE:  
MG-1401\_C101\_C102.DWG

DRAWN BY: CB

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GRADING PLAN

C-101