CITY OF ALBUQUERQUE

August 11, 2016

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

Re: NW Diagnostic Center @ Chaparral ES
6450 Western Trail NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 12/18/2014 (F10D005A)
Certification dated: 8-9-16

Dear Mr. Graeme,

Based on the Certification received 8/10/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

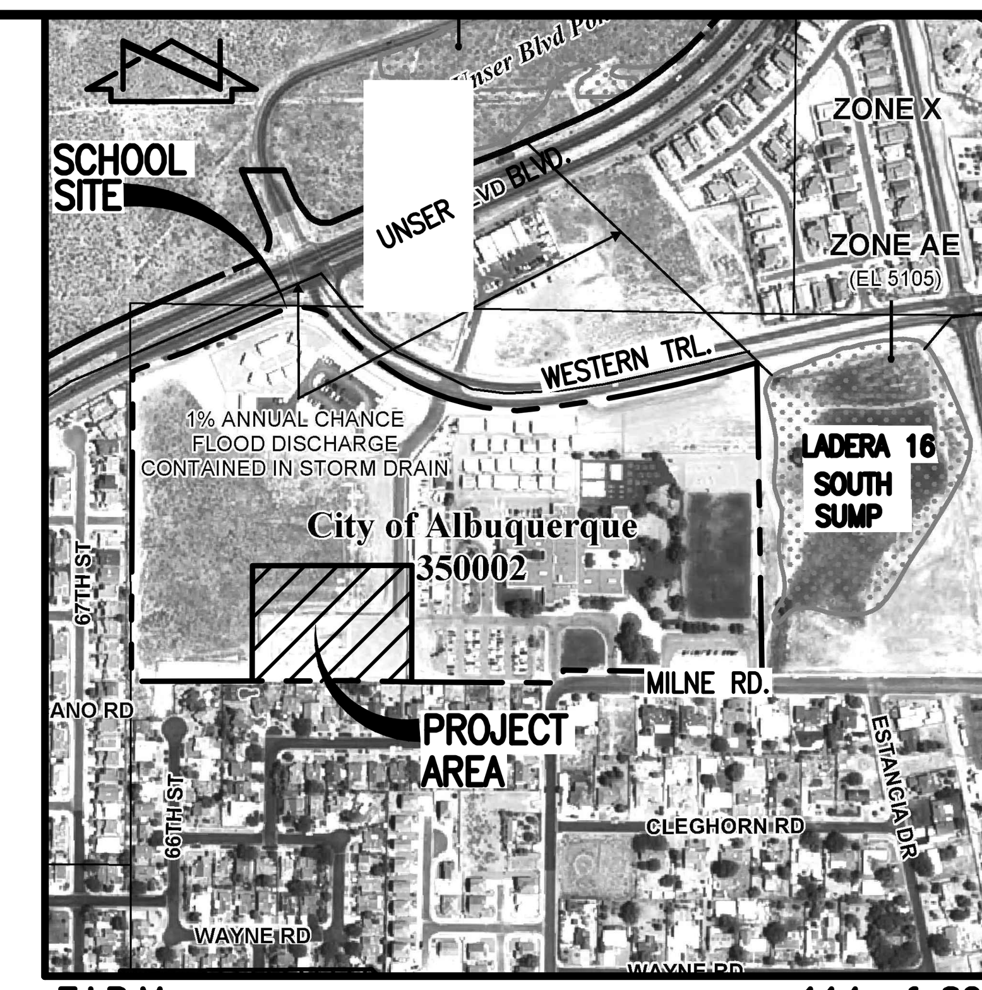
If you have any questions, you can contact me at 924-3695 or Totten Elliott at 924-3982.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

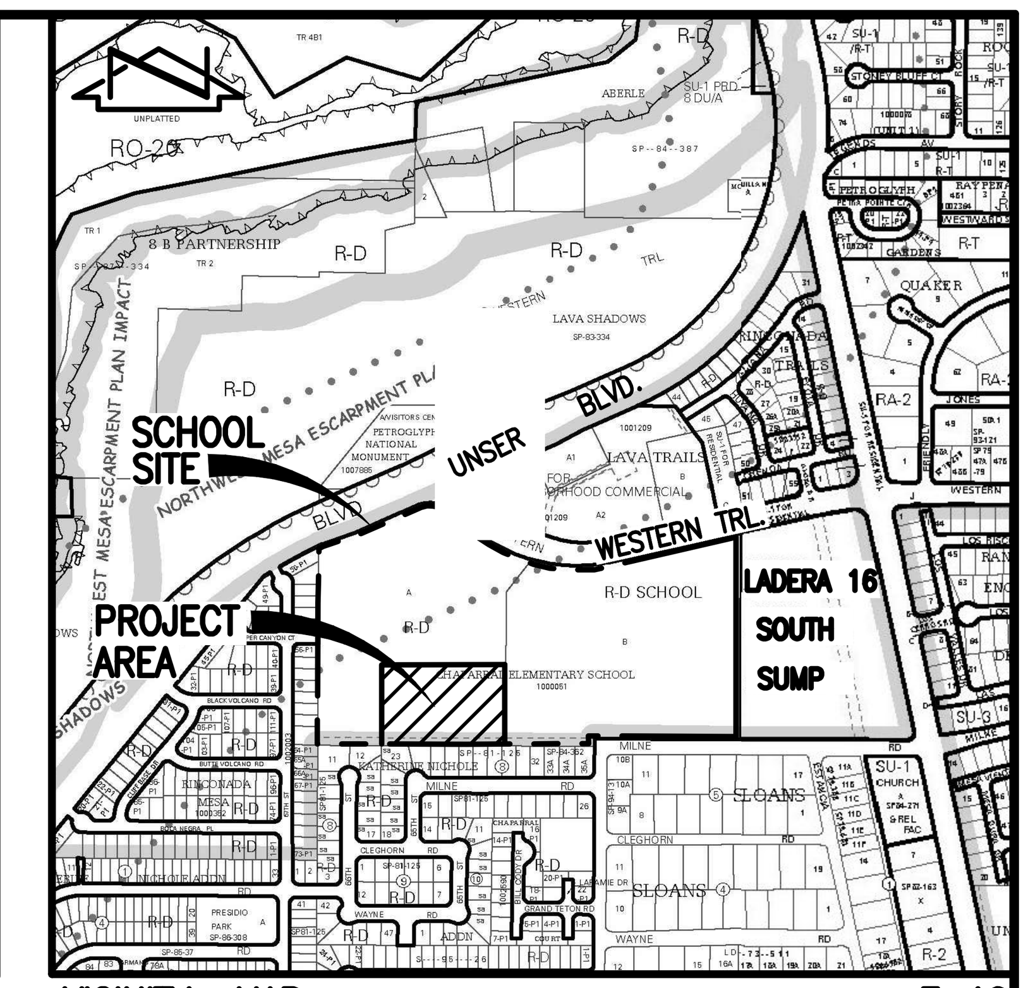
TE/RH
C: email, Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Lois Blocker

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov



F.I.R.M. 114 of 825

SCALE: 1" = 500' DATE: 8-16-2012



VICINITY MAP F-10

SCALE: 1" = 750' (APPROX.)

⚠ ENGINEER'S DRAINAGE CERTIFICATION

I, J. GRAEME MEANS, NMPE 13676, 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 12-18-2014. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED 5-16-2016 AND 8-9-2016 BY HIGH MESA CONSULTING GROUP UNDER THE DIRECTION OF CHARLES G. CALA, JR, NMPS 11184, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION IS SUBMITTED TO SATISFY CONDITIONS OF APPROVAL FOR BUILDING PERMIT AND TO DOCUMENT COMPLETION OF THE IMPROVEMENTS FOR THE OWNER. THIS SUBMITTAL RECOMMENDS PERMANENT CERTIFICATE OF OCCUPANCY FOR THE DIAGNOSTIC CENTER PHASE 2.

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.

J. Graeme Means

J. GRAEME MEANS, NMPE 13676

08-09-2016

DATE

J. GRAEME MEANS
NEW MEXICO
13676
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION NOTES:

1. 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.
2. 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.
3. 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.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
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 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:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. 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

LEGAL DESCRIPTION

TRACTS A AND B, CHAPARRAL ELEMENTARY SCHOOL, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY NEW MEXICO ON JANUARY 11, 2000, BOOK 200C, PAGE 9.

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11" EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
ELEVATION = 5110.03 FEET (NAVD 88)

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

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184". AS SHOWN ON SHEET 2.
ELEVATION = 5113.74 FEET (NAVD 88)

HYDROLOGY FILE NO:

F10/D001

INDEX OF DRAWINGS

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

SUPPLEMENTAL SITE AND DRAINAGE INFORMATION
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL

DESIGNED BY J.G.M.
DRAWN BY J.D.S.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS
⚠1	08/16	GM	RECORD DRAWING AND CERTIFICATION

JOB NO. 2013.186.5
DATE 12-2014
SHEET 1 OF 1

File Path: P:\DATA\2013.186.5\ENG\RECORD DWGS\ | Plot Date: 08-09-2016
File Name: 121831_SH1_HYDRO_SMALL_RD.DWG | Plot Time: 11:08 am

BENCHMARKS

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W. ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON THIS SHEET.
ELEVATION = 5113.74 FEET (NAVD 88)

DESIGN LEGEND

PROPOSED CONCRETE PAVING

PROPOSED ASPHALT PAVING

J. GRAEME MEANS
NEW MEXICO
13676
REGISTERED PROFESSIONAL ENGINEER
08-09-2016

2

RECORD DRAWING

TRACT A
14.6741 AC. ±

TRACT B
15.2167 AC. ±

EXISTING BUILDING

SURVEY MATCH LINE

SCALE: 1" = 40'

SURVEY NOTE

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 04-06-2009 (2008.187.5). TOPOGRAPHIC INFORMATION IS BASED UPON THE POST-CONSTRUCTION TOPOGRAPHIC SURVEYS PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 11-23-2010 (2008.202.6) WEST OF MATCH LINE AND 03-09-2013 (2013.180.1) EAST OF MATCH LINE

JEFFREY G. MORTENSEN
NEW MEXICO
8547
REGISTERED PROFESSIONAL ENGINEER
ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN
12-18-2014
01-08-2015
02-08-2016

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

OVERALL PLAN (FOR ORIENTATION)
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY	J.D.S.
DRAWN BY	J.Y.R./J.D.S.
APPROVED BY	J.G.M.

NO.	DATE	BY	REVISIONS
1	02/16	JGM	REVISE BUILDING #'s
2	08/16	GM	RECORD DRAWING

JOB NO. 2013.186.5 ~~2013.186.5~~
DATE 12-2014
SHEET 2 OF 15

File Path: P:\JOBS\2013.186.5\DWG\RECORD DWGS\
File Name: 121831_SH2_R2_RD.DWG | Plot Date: 08-09-2016 | Plot Time: 4:55 pm

SCALE: 1" = 20'

20 0 40

10 20

RECORD DRAWING

DEMOLITION KEYED NOTES

1. NEATLY SAWCUT EXISTING ASPHALT PAVING
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING
3. NEATLY SAWCUT EXISTING CURB AND GUTTER
4. REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER
5. REMOVE AND STORE EXISTING WHEEL STOPS
6. REMOVE AND RETURN EXISTING SIGN & POST
7. REMOVE AND RETURN EXISTING BOLLARD
8. REMOVE AND RETURN EXISTING 4' CHAIN LINK FENCE
9. REMOVE AND RETURN METAL LANDING & RAMP
10. EXISTING ASPHALT PAVING TO REMAIN
11. EXISTING CURB AND GUTTER TO REMAIN
12. EXISTING METAL LIGHT POLE TO REMAIN
13. EXISTING SAS MANHOLE TO REMAIN
14. EXISTING GAS METER, PRESSURE REGULATOR AND STEEL GUARD POSTS TO REMAIN
15. EXISTING CHAIN LINK FENCE TO REMAIN
16. DISCONNECT ALL EXISTING UTILITIES, REMOVE AND DISPOSE OF ALL UTILITIES BACK TO POINT OF CONNECTION; REMOVE AND RETURN EXISTING LANDINGS, RAMPS AND STAIRS; REMOVE AND RELOCATE OFFSITE EXIST. PORTABLE CLASSROOM BLDG.; REMOVE AND DISPOSE OF EXISTING FOUNDATION PIERS
17. REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK
18. REMOVE AND STOCKPILE EXISTING GRAVEL ONSITE FOR USE AS STRUCTURAL FILL AND/OR BASE COURSE FOR NEW PAVING
19. OBLITERATE EXISTING WHITE TRAFFIC STRIPING VIA SAND BLASTING OR WATER BLASTING
20. REMOVE AND SALVAGE EXISTING POST AND CABLE FENCE
21. END REMOVAL OF POST AND CABLE FENCE
22. EXISTING RISER RACK TO REMAIN
23. EXISTING PAVEMENT MARKINGS TO REMAIN

LEGEND:

AC	AIR CONDITIONING
BLDG	BUILDING
BNDL/EC	BUNDLES OF ELECTRIC CONDUITS
C & G	CURB AND GUTTER
CF	CRUSHER FINES
CLD	CENTERLINE DOOR
CLF	CHAIN LINK FENCE
CO	CLEANOUT
COMM	COMMUNICATION LINE
COMM/PM	COMMUNICATION LINE BY PAINT MARK
E/PM	ELECTRIC BY PAINT MARK
E/TRANS/METER	ELECTRIC TRANSFORMER WITH METER
EC	ELECTRIC CONDUIT
ECB	ELECTRIC CABINET
ELEC	ELECTRIC
EM	ELECTRIC METER
FH	FIRE HYDRANT
FL	FLOWLINE
G/PM	GAS BY PAINT MARK
GS	GAS SERVICE
INV	INVERT
MH	MANHOLE
ML	METAL LANDING
RD	ROOF DRAIN
SAS	SANITARY SEWER
SVB	SPRINKLER VALVE BOX
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TYP	TYPICAL
WCR	WHEELCHAIR RAMP
WL	WATER LINE
WL/PM	WATER LINE BY PAINT MARK
WMC	WATER METER CAN WITH HOSE BIB
WPR	WATER PIPE TO ROOF
WVB	WATER VALVE BOX
*	PAINTED UTILITY MARKER
	SMALL DECIDUOUS TREE

BENCHMARKS

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON THIS SHEET.
ELEVATION = 5113.74 FEET (NAVD 88)

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HIGH MESA Consulting Group

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

File Path: P:\DWG\2013.186.5\DWG\RECORD DWGS\ | Plot Date: 08-09-2016
File Name: 121831_SH3_RD.DWG | Plot Time: 4:56 pm

DEMOLITION PLAN
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./J.D.S.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS
2	08/16	GM	RECORD DRAWING

JOB NO. 2013.186.5 ~~2013.186.5~~
DATE 12-2014
SHEET 3 OF 15

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
08-09-2016

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED LAND SURVEYOR
ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN
12-18-2014
01-08-2015

SITE PLAN KEYED NOTES:

1. ~~INSTALL~~ ONE SINGLE CLASSROOM PORTABLE BUILDING W/ FOOTINGS PER FOUNDATION PLAN, SHEET 13
2. ~~INSTALL~~ ONE DOUBLE CLASSROOM PORTABLE BUILDING W/ FOOTINGS PER FOUNDATION PLAN, SHEET 13
3. ~~CONSTRUCT~~ 2" ASPHALT PAVEMENT PER TYPICAL SECTION, SHEET 6
4. ~~CONSTRUCT~~ 3" ASPHALT PAVEMENT PER TYPICAL SECTION, SHEET 6
5. ~~CONSTRUCT~~ CONCRETE SIDEWALK PER TYPICAL SECTION, SHEET 6
6. ~~CONSTRUCT~~ WHEELCHAIR RAMP PER TYPICAL DETAIL, SHEET 6
7. ~~CONSTRUCT~~ 6" CURB AND GUTTER PER TYPICAL SECTION, SHEET 6
8. UPON COMPLETION OF ASPHALT PAVING, NEATLY SAWCUT NEW ASPHALT PAVEMENT AND CONSTRUCT CONCRETE TREE WELL PER TYPICAL SECTION, SHEET 6
9. ~~CONSTRUCT~~ HEADER CURB @ FACE OF BUILDING PER TYPICAL SECTION, SHEET 7
10. NEW 24" x 24" STORM INLET, SEE GRADING PLAN, SHEET 8
11. NEW 12" STORM DRAIN, SEE GRADING PLAN, SHEET 8
12. NEW SDMH, SEE GRADING PLAN, SHEET 8
13. NEW SINGLE D INLET, SEE GRADING PLAN, SHEET 8
14. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN; ATTACH TO FACE OF BUILDING
15. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN WITH VAN ACCESSIBLE PLACARD; ATTACH TO FACE OF BUILDING
16. ~~PAINT~~ 4" WIDE PAVEMENT MARKINGS WITH WHITE TRAFFIC PAINT, MIN. 2 COATS, TYP.
17. ~~PAINT~~ 4" WIDE CROSS-HATCH (4' C-C) PAVEMENT MARKINGS @ 45° WITH WHITE TRAFFIC PAINT, MIN. 2 COATS
18. ~~INSTALL~~ HANDICAP PARKING SPACE PAVEMENT MARKING (COLOR: WHITE), TYP.
19. ~~INSTALL~~ 5' CHAIN LINK FENCE, TYP.
20. ~~INSTALL~~ 4' WIDE CHAIN LINK GATE, TYP.

LEGEND:

AC	AIR CONDITIONING	MH	MANHOLE
BLDG	BUILDING	ML	METAL LANDING
BNDL/EC	BUNDLES OF ELECTRIC CONDUITS	RD	ROOF DRAIN
C & G	CURB AND GUTTER	SAS	SANITARY SEWER
CF	CRUSHER FINES	SVB	SPRINKLER VALVE BOX
CLD	CENTERLINE DOOR	TA	TOP OF ASPHALT
CLF	CHAIN LINK FENCE	TC	TOP OF CURB
CO	CLEANOUT	TCO	TOP OF CONCRETE
COMM	COMMUNICATION LINE	TOE	TOE OF SLOPE
COMM/PM	COMMUNICATION LINE BY PAINT MARK	TOP	TOP OF SLOPE
E/PM	ELECTRIC BY PAINT MARK	TYP	TYPICAL
E/TRANS/METER	ELECTRIC TRANSFORMER WITH METER	WCR	WHEELCHAIR RAMP
EC	ELECTRIC CONDUIT	WL	WATER LINE
ECB	ELECTRIC CABINET	WL/PM	WATER LINE BY PAINT MARK
ELEC	ELECTRIC	WMC	WATER METER CAN WITH HOSE BIB
EM	ELECTRIC METER	WPR	WATER PIPE TO ROOF
FH	FIRE HYDRANT	WVB	WATER VALVE BOX
FL	FLOWLINE	*	PAINTED UTILITY MARKER
G/PM	GAS BY PAINT MARK		SMALL DECIDUOUS TREE
GS	GAS SERVICE		
INV	INVERT		

PROPOSED CHAIN LINK FENCE

PROPOSED CONCRETE

PROPOSED ASPHALT PAVING

BENCHMARKS:

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W. ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON THIS SHEET.
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EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
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RECORD DRAWING

SURVEY NOTE

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J. GRAEME MEANS, NEW MEXICO, 13676, REGISTERED PROFESSIONAL ENGINEER — 08-09-2016

JEFFREY G. MORTENSEN, NEW MEXICO, 8547 — ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN 12-18-2014 02-08-2016

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

SITE PLAN - BUILDINGS
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./J.D.S.
APPROVED BY J.G.M.

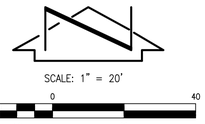
NO.	DATE	BY	REVISIONS
2	02/16	JGM	REVISE BUILDING #'s
3	08/16	GM	RECORD DRAWING

JOB NO. 2013.186.5 ~~2012.183.1~~
DATE 12-2014
SHEET 4 OF 15

File Path: P:\2013\2013.186.5\DWG\RECORD DWG\ | Plot Date: 08-09-2016
File Name: 121831_SH4_P2_RD.DWG | Plot Time: 4:39 pm

DESIGN LEGEND:

- PROPOSED CHAIN LINK FENCE
- PROPOSED CONCRETE
- PROPOSED ASPHALT PAVING
- BUILDING ENTRANCE
- ADA ACCESSIBLE PATH (6' MIN. WIDTH W/ 2% MAX CROSS-SLOPE)



D1 TYPICAL HANDICAP PARKING SIGN (VAN ACCESSIBLE)

SCALE: 1" = 0'-6"

SITE PLAN KEYED NOTES:

1. ~~INSTALL~~ ONE SINGLE CLASSROOM PORTABLE BUILDING W/ FOOTINGS PER FOUNDATION PLAN, SHEET 13
2. ~~INSTALL~~ ONE DOUBLE CLASSROOM PORTABLE BUILDING W/ FOOTINGS PER FOUNDATION PLAN, SHEET 13
3. ~~CONSTRUCT~~ 2" ASPHALT PAVEMENT PER TYPICAL SECTION D6, SHEET 6
4. ~~CONSTRUCT~~ 3" ASPHALT PAVEMENT PER TYPICAL SECTION C6, SHEET 6
5. ~~CONSTRUCT~~ CONCRETE SIDEWALK PER TYPICAL SECTION D3, SHEET 6
6. ~~CONSTRUCT~~ WHEELCHAIR RAMP PER TYPICAL DETAIL A3, SHEET 6
7. ~~CONSTRUCT~~ 6" CURB AND GUTTER PER TYPICAL SECTION D1, SHEET 6
8. UPON COMPLETION OF ASPHALT PAVING, NEATLY SAWCUT NEW ASPHALT PAVEMENT AND CONSTRUCT CONCRETE TREE WELL PER TYPICAL SECTION D4, SHEET 6
9. ~~CONSTRUCT~~ HEADER CURB @ FACE OF BUILDING PER TYPICAL SECTION, SHEET 7
10. NEW 24" x 24" STORM INLET, SEE GRADING PLAN, SHEET 8
11. NEW 12" STORM DRAIN, SEE GRADING PLAN, SHEET 8
12. NEW SDMH, SEE GRADING PLAN, SHEET 8
13. NEW SINGLE D INLET, SEE GRADING PLAN, SHEET 8
14. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN; ATTACH TO FACE OF BUILDING
15. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN WITH VAN ACCESSIBLE PLACARD; ATTACH TO FACE OF BUILDING
16. ~~PAINT~~ 4" WIDE PAVEMENT MARKINGS WITH WHITE TRAFFIC PAINT, MIN. 2 COATS, TYP.
17. ~~PAINT~~ 4" WIDE CROSS-HATCH (4' C-C) PAVEMENT MARKINGS @ 45° WITH WHITE TRAFFIC PAINT, MIN. 2 COATS
18. ~~INSTALL~~ HANDICAP PARKING SPACE PAVEMENT MARKING (COLOR: WHITE), TYP.
19. ~~INSTALL~~ 5' CHAIN LINK FENCE, TYP.
20. ~~INSTALL~~ 4' WIDE CHAIN LINK GATE, TYP.
21. ~~REINSTALL~~ SALVAGED WHEEL STOPS PER TYPICAL SECTION A5, SHEET 6
22. ~~INSTALL~~ NEW WHEEL STOPS PER TYPICAL SECTION A5, SHEET 6
23. ~~PAINT~~ CROSSWALK PER TYPICAL DETAIL C4, SHEET 6
24. ~~CONSTRUCT~~ DOUBLE TURNDOWN SIDEWALK PER TYPICAL SECTION C3, SHEET 6
25. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN, TYP.
26. ~~INSTALL~~ ADA COMPLIANT HANDICAP PARKING SIGN WITH VAN ACCESSIBLE PLACARD, TYP.
27. ~~INSTALL~~ STOP SIGN (R1-1), TYP.
28. ~~INSTALL~~ CROSSWALK SIGN (S2-1), TYP.
29. ~~STENCIL~~ "NO PARKING" W/ WHITE TRAFFIC PAINT, MIN. 2 COATS *(MIN. 1' HEIGHT AND 2" WIDE LETTERING)* *4' CHAIN LINK FENCE*
30. ~~REINSTALL SALVAGED POST AND CABLE FENCE~~ @ 18" FROM EDGE OF ASPHALT PAVING
31. BEGIN POST AND CABLE FENCE INSTALLATION
32. END POST AND CABLE FENCE INSTALLATION
33. ~~CONSTRUCT~~ INTEGRAL HEADER CURB PER TYP. SECTION D5, SHEET 6
34. NEW SIDEWALK CULVERT, SEE GRADING PLAN, SHEET 8

LEGEND:

AC	AIR CONDITIONING	MH	MANHOLE
BLDG	BUILDING	ML	METAL LANDING
BNDL/EC	BUNDLES OF ELECTRIC CONDUITS	RD	ROOF DRAIN
C & G	CURB AND GUTTER	SAS	SANITARY SEWER
CF	CRUSHER FINES	SVB	SPRINKLER VALVE BOX
CLD	CENTERLINE DOOR	TA	TOP OF ASPHALT
CLF	CHAIN LINK FENCE	TC	TOP OF CURB
CO	CLEANOUT	TCO	TOP OF CONCRETE
COMM	COMMUNICATION LINE	TOE	TOE OF SLOPE
COMM/PM	COMMUNICATION LINE BY PAINT MARK	TOP	TOP OF SLOPE
E/PM	ELECTRIC BY PAINT MARK	TYP	TYPICAL
E/TRANS/METER	ELECTRIC TRANSFORMER WITH METER	WCR	WHEELCHAIR RAMP
EC	ELECTRIC CONDUIT	WL	WATER LINE
ECB	ELECTRIC CABINET	WL/PM	WATER LINE BY PAINT MARK
ELEC	ELECTRIC	WMC	WATER METER CAN WITH HOSE BIB
EM	ELECTRIC METER	WPR	WATER PIPE TO ROOF
FH	FIRE HYDRANT	WVB	WATER VALVE BOX
FL	FLOWLINE	*	PAINTED UTILITY MARKER
G/PM	GAS BY PAINT MARK		
GS	GAS SERVICE		SMALL DECIDUOUS TREE
INV	INVERT		

BENCHMARKS:

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON THIS SHEET.
ELEVATION = 5113.74 FEET (NAVD 88)

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. 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.

CONSTRUCTION NOTES:

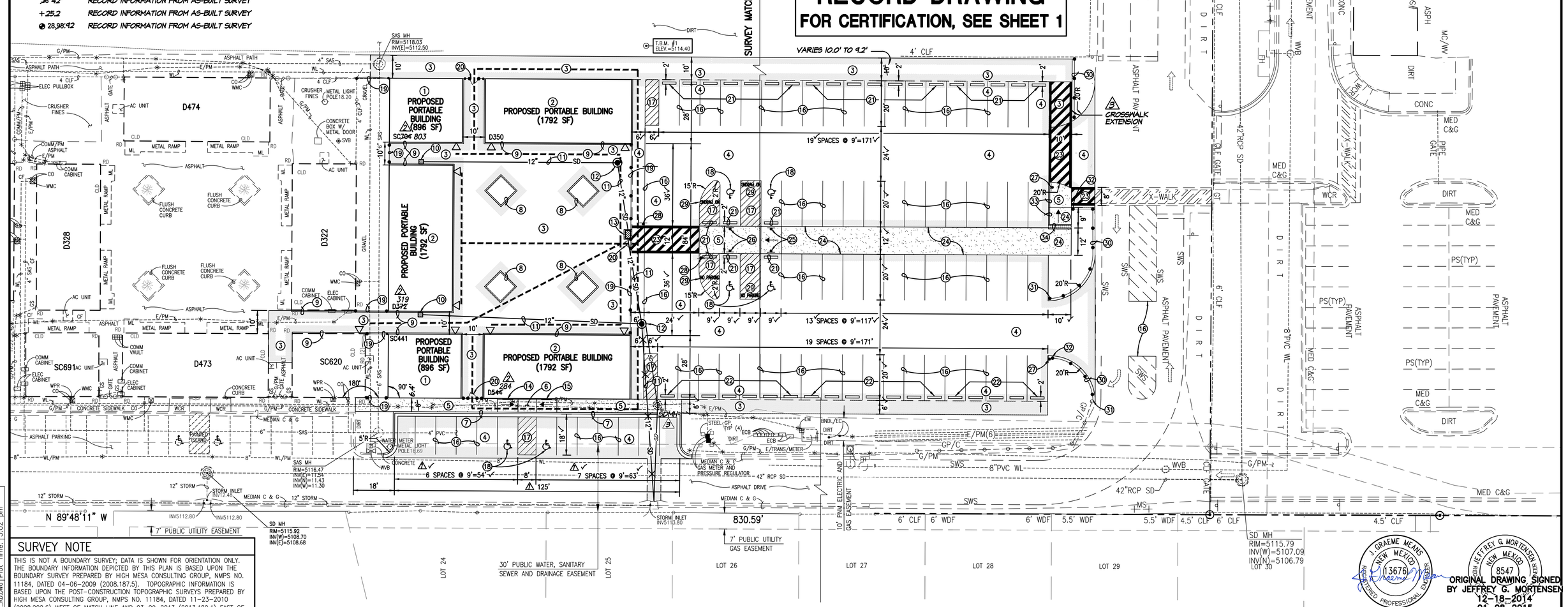
1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY 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.
3. 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.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
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 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.

RECORD DRAWING LEGEND

~~CONSTRUCT~~	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36'42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
@ 28,98:42	RECORD INFORMATION FROM AS-BUILT SURVEY

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

SURVEY MATCH LINE



SURVEY NOTE

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J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
08-09-2016

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN
12-18-2014
01-08-2015
02-08-2016

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

SITE PLAN - PARKING LOT (TRAFFIC CIRCULATION LAYOUT)
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./J.D.S.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS
1	1/15	JDS	ADD ADA ACCESSIBLE ROUTE, ADD HC PARKING SIGN DETAIL, ADD SOUTH PARKING DIM'S FROM SHT 4, ADD BLDG ENTRANCE LOCATIONS & SQUARE FOOTAGES, REVISE KEYED NOTES PER TCL COMMENTS
2	02/16	JGM	REVISE BUILDING #'s
3	08/16	GM	RECORD DRAWING

JOB NO. 2013.186.5 ~~2012.183.1~~
DATE 12-2014
SHEET 5 OF 15

File Path: P:\DATA\2013\186\5\DWG\RECORD DWGS\
File Name: 121831_SH5_R2_RD.DWG
Plot Date: 08-09-2016
Plot Time: 5:02 pm

SCALE: 1" = 20'

20 0 40
10 20

RECORD DRAWING LEGEND

CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
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36'42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
⊕ 28,98:92	RECORD INFORMATION FROM AS-BUILT SURVEY

DRAINAGE KEYED NOTES:

1. CONNECT TO EXISTING SINGLE C STORM INLET, INV IN @ ~~5113.90~~ 14.0
2. ~~INSTALL~~ 12" PVC STORM DRAIN (SDR-35) @ S = 0.00050
3. ~~INSTALL~~ 4' DIA. SDMH, RIM @ 5118.8, INV IN @ 5114.45, 9(W) & 8(N) INV OUT @ 5114.38 .7 .02
4. ~~INSTALL~~ 1-SINGLE D STORM INLET PER TYP. SECTIONS, SHEET 10, TG @ 5117.40, INV IN @ 5114.75, INV OUT @ 5114.60 15.1
5. ~~INSTALL~~ 4' DIA. SDMH, RIM @ 5118.8, INV IN @ 5115.00, 5 INV OUT @ 5114.90 15.3 .07
6. ~~INSTALL~~ 24"x24" STORM INLET PER TYP. SECTION, SHEET 10, TG @ 5118.20, INV OUT @ 5115.00 .4
7. ~~INSTALL~~ 24"x24" STORM INLET PER TYP. SECTION, SHEET 10, TG @ 5118.20, INV OUT @ 5115.50 .8
8. ~~INSTALL~~ 12" PVC STORM DRAIN (SDR-35) @ S=0.0055
9. ~~INSTALL~~ 12" PVC STORM DRAIN (SDR-35) @ S=0.0050
10. NEATLY SAWCUT, REMOVE AND REPLACE ASPHALT PAVING (PRIVATE) WITH 2" EXTRA THICKNESS
11. ~~CONSTRUCT~~ 12" WIDE SIDEWALK CULVERT PER TYP. SECTION, SHEET 10
12. ADD 4' DIA. SDMH CENTERED IN SIDEWALK, RIM @ 5116.65, INV IN @ 5114.60, INV OUT @ 5114.50 (MATCH AS-CONSTRUCTED INVERT) .99 .3

LEGEND:

INV	INVERT	
TA	TOP OF ASPHALT PAVEMENT	
TC	TOP OF CURB	
TG	TOP OF GRATE	
+ 20.05	EXISTING SPOT ELEVATION	
⊕ 14.00	PROPOSED SPOT ELEVATION	
	EXISTING FLOWLINE	
	PROPOSED FLOWLINE	
–4920–	EXISTING CONTOUR	
20	PROPOSED CONTOUR	
	EXISTING DIRECTION OF FLOW	
	PROPOSED DIRECTION OF FLOW	
	PUBLIC EASEMENT LINE	
	HIGH POINT / DIVIDE	
	PROPOSED CHAIN LINK FENCE	
	PROPOSED DRAINAGE BASIN BOUNDARY	
	LIMITS OF HYDROLOGIC ANALYSIS	
	PROPOSED CONCRETE	
	PROPOSED ASPHALT PAVING	

AC	AIR CONDITIONING
BLDG	BUILDING
BNDL/EC	BUNDLES OF ELECTRIC CONDUITS
C & G	CURB AND GUTTER
CF	CRUSHER FINES
CLD	CENTERLINE DOOR
CLF	CHAIN LINK FENCE
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EM	ELECTRIC METER
FH	FIRE HYDRANT
FL	FLOWLINE
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INV	INVERT
MH	MANHOLE
ML	METAL LANDING
RD	ROOF DRAIN
SAS	SANITARY SEWER
SVB	SPRINKLER VALVE BOX
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCO	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TYP	TYPICAL

WCR	WHEELCHAIR RAMP
WL	WATER LINE
WL/PM	WATER LINE BY PAINT MARK
WMC	WATER METER CAN WITH HOSE BIB
WPR	WATER PIPE TO ROOF
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*	PAINTED UTILITY MARKER
	SMALL DECIDUOUS TREE

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CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
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A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON THIS SHEET.
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RECORD DRAWING
FOR CERTIFICATION, SEE SHEETS 1 AND 9

J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
08-09-2016

JEFFREY G. MORTENSEN — NEW MEXICO — 8547 — REGISTERED PROFESSIONAL ENGINEER
ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN
12-18-2014
02-08-2016
02-11-2016

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

GRADING PLAN
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./J.D.S.
APPROVED BY J.G.M.

NO.	DATE	BY	REVISIONS
2	02/16	JGM	REVISE BUILDING #'s
3	08/16	GM	RECORD DRAWING & CERTIFICATION

JOB NO. 2013.186.5 ~~2012.183.1~~
DATE 12-2014
SHEET 8 OF 15

File Path: P:\JMA\2013\186.5\DWG\SECOND DWGS\
Plot Date: 08-09-2016
File Name: 121831_SH8_R2_RD.DWG
Plot Time: 4:52 pm

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE NORTHWEST MESA OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING APS SCHOOL SITE WITHIN AN INFILL AREA. THE PROPOSED NORTHWEST DIAGNOSTIC CENTER PHASE 2 EXPANSION IS COMPRISED OF FIVE PORTABLE CLASSROOM BUILDINGS WITH ASSOCIATED PAVING AND LANDSCAPING, AS WELL AS A NEW PAVED PARKING LOT. THE PROJECT SITE IS LOCATED ON THE SOUTH SIDE OF TRACT A, IMMEDIATELY EAST OF AND ADJACENT TO THE EXISTING NORTHWEST DIAGNOSTIC CENTER. THE DRAINAGE CONCEPT FOR THIS PROJECT WILL BE TO DISCHARGE THE MAJORITY OF DEVELOPED RUNOFF TO THE EXISTING PUBLIC STORM DRAIN LOCATED ON TRACT A. THE EXISTING PUBLIC STORM DRAIN DISCHARGES TO THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION POND LOCATED IMMEDIATELY DOWNSTREAM OF CHAPARRAL ELEMENTARY SCHOOL WHERE STORMWATER CONTROL IS ACHIEVED. THE REMAINING PORTION OF DEVELOPED RUNOFF WILL BE DISCHARGED TO THE PLAYA LOCATED NORTH OF THE SITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL WITHIN THE JURISDICTION OF THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SCHOOL SITE IS LOCATED ON THE SOUTH SIDE OF WESTERN TRAIL NW BETWEEN UNSER BLVD NW AND ATRISCO BLVD NW. THE CURRENT LEGAL DESCRIPTION IS TRACT A, CHAPARRAL ELEMENTARY SCHOOL. AS SHOWN BY PANEL 114 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, AUGUST 16, 2012, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. FURTHERMORE, THE SITE LIES UPSTREAM OF THE LADERA BASIN 16 SOUTH SUMP, REFERENCED THEREON AS THE "CHAPARRAL POND", A REGIONAL STORM WATER FACILITY OWNED, OPERATED AND MAINTAINED BY THE CITY OF ALBUQUERQUE. THE PRESENCE OF THIS DOWNSTREAM FACILITY ALLOWS FOR THE FREE DISCHARGE OF RUNOFF FROM THIS SITE. THE PANEL ALSO IDENTIFIES THAT THE "1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED WITHIN STORM DRAIN".

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS:

- TOPOGRAPHIC SURVEYS PREPARED BY HIGH MESA CONSULTING GROUP (NMPS 11184) DATED 11-23-2010 AND 03-09-2013. THESE REFERENCED SURVEYS PROVIDE THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.
- RECORD DRAWING OF THE D50 PORTABLE RELOCATION FOR THE NORTHWEST DIAGNOSTIC CENTER AT CHAPARRAL ELEMENTARY SCHOOL, PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED 12-26-2012. THIS REFERENCED PLAN PROVIDES THE BASIS FOR THE EXISTING CONDITION OF THE DOUBLE CLASSROOM PORTABLE BUILDING (D50) AND IMMEDIATE ADJACENT IMPROVEMENTS INSTALLED SUBSEQUENT TO THE TOPOGRAPHIC SURVEY IN 2010.
- GRADING AND DRAINAGE PLAN FOR PRE-K AND DIAGNOSTICIAN CONSOLIDATION AT CHAPARRAL ELEMENTARY SCHOOL, PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED 06-17-2010 AND CERTIFIED 03-01 2011. THIS REFERENCED PLAN ESTABLISHED THE DRAINAGE CONCEPT FOR THE NORTHWEST DIAGNOSTIC CENTER SITE OF DIRECT DISCHARGE TO THE PUBLIC STORM DRAIN PASSING THROUGH TRACT A.
- STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR CHARAPPARAL ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP, NMPE 8547, DATED APRIL, 2012. THE EXISTING SWPPP WAS PREPARED TO SUPPORT SITE AND BUILDING IMPROVEMENTS ON THE CHAPARRAL ELEMENTARY SCHOOL SITES.

IV. EXISTING CONDITIONS

THE EXISTING SITE IS CHARACTERIZED BY ONE (1) DRAINAGE BASIN, BASIN A WITHIN TRACT A OF THE SCHOOL SITE. BASIN A PRESENTLY CONSISTS OF A GRAVEL PARKING LOT IMMEDIATELY EAST OF THE EXISTING PRE-K AND DIAGNOSTIC CENTER CAMPUSES AND SERVES THESE CAMPUSES. THE SOUTHERLY PORTION OF TRACT A, CONSISTING OF THE PRE-K AND DIAGNOSTIC CENTER, DRAINS TO THE EXISTING PUBLIC STORM DRAIN THAT OUTFALLS TO THE LADERA BASIN 16 SOUTH SUMP AS PREVIOUSLY DESCRIBED. THE AREA NORTH OF THE EXISTING PRE-K AND DIAGNOSTIC CENTER CAMPUSES IS RELATIVELY "FLAT" AND IS CHARACTERISTIC OF A PLAYA, THEREFORE HAS NO OUTFALL.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THIS PROJECT SITE. THE SITE IS BOUNDED TO THE WEST BY THE EXISTING DIAGNOSTIC CENTER THAT DISCHARGES DEVELOPED RUNOFF DIRECTLY TO THE PUBLIC STORM DRAIN IN TRACT A. IT IS BOUNDED ON THE NORTH BY UNDEVELOPED AREA THAT IS TOPOGRAPHICALLY LOWER THAN THE SITE AND CHARACTERISTIC OF A PLAYA. ON THE EAST THE SITE IS BOUNDED BY A PAVED ACCESS ROAD THAT DRAINS AWAY FROM THE PROJECT SITE. TO THE SOUTH THE SITE IS BOUNDED BY EXISTING RESIDENTIAL PROPERTIES THAT APPEAR TO BE TOPOGRAPHICALLY LOWER THAN THE SITE, DRAINING SOUTH TO MILNE ROAD NW.

V. DEVELOPED CONDITIONS

THE DEVELOPED SITE IS CHARACTERIZED BY THREE (3) DRAINAGE BASINS, BASINS A, B AND C. THE PROPOSED CONSTRUCTION WITHIN THESE THREE BASINS MAKES UP PHASE 2 OF THE NORTHWEST DIAGNOSTIC CENTER. THE IMPROVEMENTS TO EACH BASIN ARE DENOTED AS FOLLOWS:

- BASIN A MAKES UP THE WEST PORTION OF THE PROJECT SITE, AND CONSISTS OF THE INSTALLATION OF TWO (2) SINGLE CLASSROOM PORTABLE BUILDINGS AND THREE (3) DOUBLE CLASSROOM PORTABLE BUILDINGS FOR DIAGNOSTIC PURPOSES. ASSOCIATED PAVED ACCESS AND PARKING WILL BE PROVIDED ALONG WITH MINIMAL LANDSCAPING. THE DEVELOPED RUNOFF FROM BASIN A WILL GENERALLY DRAIN WEST TO EAST AND BE COLLECTED IN THREE (3) PRIVATE STORM INLETS. THE COLLECTED RUNOFF WILL BE CONVEYED VIA PRIVATE STORM DRAIN TO THE EXISTING PUBLIC STORM DRAIN IN TRACT A PREVIOUSLY REFERENCED ABOVE. THE PUBLIC STORM DRAIN WAS CONSTRUCTED AS PART OF THE RINCONADA MESA SUBDIVISION AND PLANNED TO PROVIDE FREE DISCHARGE FOR THE APS PROPERTIES THROUGH WHICH IT PASSES TO REACH THE LADERA BASIN 16 SOUTH SUMP.
- BASIN B MAKES UP THE NORTHERN PORTION OF THE PROJECT SITE, CONSISTING OF PORTIONS OF THE PORTABLE BUILDINGS ROOFS THAT DRAIN AWAY FROM BASIN A, AS WELL AS A PAVED ACCESS PATH AND UNPAVED, GRADED AREAS ALONG THE NORTH SIDE OF THE PROJECT SITE. DEVELOPED RUNOFF GENERATED BY BASIN B PRIMARILY DRAINS NORTH TO THE EXISTING PLAYA REFERENCED ABOVE; THIS RUNOFF HAS NO OUTFALL AND WILL BE RETAINED ON THE PLAYA ONSITE.

  A SMALL LANDSCAPED AREA BETWEEN THE WESTERNMOST DOUBLE CLASSROOM PORTABLE BUILDING AND THE EXISTING DIAGNOSTIC CENTER WILL BE GRADED TO SERVE AS A WATER HARVESTING AREA; THIS AREA WILL CAPTURE THE ROOF RUNOFF FROM THE ADJACENT BUILDINGS. OVERFLOW FROM THIS WATER HARVESTING AREA WILL FLOW NORTH TO THE EXISTING PLAYA REFERENCED ABOVE.

- BASIN C MAKES UP THE EASTERN PORTION OF THE SITE, CONSISTING OF A NEW PAVED PARKING LOT. THE DEVELOPED RUNOFF FROM BASIN C WILL GENERALLY DRAIN WEST TO EAST TO A TWO NEW LANDSCAPED WATER HARVESTING AREAS. THE PROPOSED WATER HARVESTING AREAS ARE SIZED TO CAPTURE THE FIRST FLUSH OF DEVELOPED RUNOFF GENERATED BY BASIN C. OVERFLOW FROM THE WATER HARVESTING AREA WILL SHEETFLOW EAST ONTO THE EXISTING PAVED ACCESS ROAD, AND THEN FLOW NORTH TO ULTIMATELY OUTFALL TO THE PLAYA REFERENCED ABOVE; THIS OVERFLOW RUNOFF HAS NO OUTFALL AND WILL BE RETAINED ON THE PLAYA ONSITE.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL DIRECT THE DEVELOPED RUNOFF FROM THE WESTERN PORTION OF THE SITE (BASIN A) TO NEW PRIVATE STORM DRAIN IMPROVEMENTS THAT WILL DISCHARGE TO THE EXISTING PUBLIC STORM DRAIN REFERENCED ABOVE; THIS RUNOFF WILL ULTIMATELY OUTFALLS TO THE LADERA BASIN 16 SOUTH SUMP. THE NORTHERN PORTION OF THE SITE (BASIN B) WILL DRAIN TO THE PLAYA AND BE RETAINED ONSITE. THE EASTERN PORTION OF THE SITE (BASIN C) WILL DRAIN TO NEW WATER HARVESTING AREAS THAT WILL CAPTURE THE FIRST FLUSH, WITH OVERFLOW DRAINING TO THE PLAYA AND BE RETAINED ONSITE.

VII. EROSION CONTROL PLAN

THIS PROJECT DISTURBS GREATER THAN ONE ACRE OF LAND, THEREFORE, A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED. THE EROSION AND SEDIMENT CONTROL PLAN WILL CONTROL SEDIMENT MOBILIZED BOTH FROM THE IMMEDIATE PROJECT SITE, AS WELL AS FROM THE EXISTING SOIL STOCKPILE LOCATED DUE NORTH OF THE PHASE 1 DEVELOPMENT THAT WILL BE UTILIZED FOR FILL ON PHASE 2. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WAS PREPARED TO SUPPORT SITE AND BUILDING IMPROVEMENTS ON THE CHAPARRAL ELEMENTARY SCHOOL SITES (TRACTS A AND B). IF THE EXISTING SWPPP IS STILL ACTIVE UPON COMMENCEMENT OF PHASE 2 CONSTRUCTION, THE ACTIVE SWPPP WILL BE AMENDED TO INCLUDE THIS PROJECT. IN THE EVENT THAT THE CHAPARRAL ELEMENTARY SCHOOL SWPPP IS NO LONGER ACTIVE AND EPA PERMIT COVERAGE TERMINATED, A NEW SITE SPECIFIC SWPPP MUST BE PREPARED.

THE FIRST FLUSH OF RUNOFF (90TH PERCENTILE STORM EVENT, 0.44 IN) GENERATED BY EACH BASIN WAS CALCULATED HEREIN (SEE SECTION VIII BELOW). THIS FIRST FLUSH WILL BE CONTROLLED BY EACH BASIN AS FOLLOWS:

- BASIN A: THE FIRST FLUSH GENERATED BY THIS BASIN WILL BE 480 CF. THIS FIRST FLUSH WILL BE MANAGED AND CONTROLLED VIA DISCHARGE TO THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION POND LOCATED IMMEDIATELY DOWNSTREAM OF THE CHAPARRAL ELEMENTARY SCHOOL SITE. THE SOUTH SUMP IS APPROX. TEN (10) ACRES IN SIZE, WITH CONTROLLED DISCHARGE. THE DISCHARGE OF 480 CF OF RUNOFF TO THIS SUMP WILL RESULT IN A DEPTH WITHIN THE SUMP OF < 0.001 FT, THEREFORE THE SUMP HAS CAPACITY TO CONTROL THE FIRST FLUSH.
- BASIN B: THE FIRST FLUSH GENERATED BY THIS BASIN WILL BE 440 CF. THIS FIRST FLUSH WILL BE MANAGED AND CONTROLLED VIA DISCHARGE TO THE PLAYA IMMEDIATELY NORTH OF THE PHASE 2 SITE. THIS PLAYA IS APPROX. THREE (3) ACRES IN SIZE, WITH NO APPARENT OUTFALL. THE DISCHARGE OF 440 CF OF RUNOFF TO THIS PLAYA WILL RESULT IN A DEPTH WITHIN THE PLAYA OF 0.003 FT, THEREFORE THE PLAYA HAS CAPACITY TO CAPTURE THE FIRST FLUSH.
- BASIN C: THE FIRST FLUSH GENERATED BY THIS BASIN WILL BE 640 CF. THIS FIRST FLUSH WILL BE MANAGED AND CONTROLLED VIA DISCHARGE TO NEW LANDSCAPED WATER HARVESTING AREAS. THE WATER HARVESTING AREAS ARE SIZED TO CAPTURE THE FIRST FLUSH (VCAP = 1130 CF).

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 PHASE 2 IMPROVEMENTS WILL RESULT IN AN INCREASE IN THE DEVELOPED RUNOFF GENERATED BY THE SITE. THE RUNOFF GENERATED FROM BASIN A WILL BE DIRECTED TO THE PUBLIC STORM DRAIN IN TRACT A. THE INCREASE IN RUNOFF GENERATED FROM BASIN B WILL BE MITIGATED VIA ONSITE RETENTION OF BASIN B RUNOFF ON THE PLAYA NORTH OF THE PROJECT SITE. THE INCREASE IN RUNOFF GENERATED FROM BASIN C WILL BE MITIGATED VIA WATER HARVESTING WITHIN BASIN C AND THE ONSITE RETENTION OF OVERFLOW FROM BASIN C ON THE PLAYA NORTH OF THE PROJECT SITE. IN ADDITION, CALCULATIONS CONTAINED HEREON FOR THE FIRST FLUSH GENERATED BY THE PROJECT SITE DEMONSTRATE THAT 480 CF FROM BASIN A, 440 CF FROM BASIN B AND 640 CF FROM BASIN C MUST BE MANAGED AND CONTROLLED FROM THIS SITE.

IX. CONCLUSIONS

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

1. THE PROPOSED IMPROVEMENTS ARE CONSISTENT WITH THE CONCEPT FOR FREE DISCHARGE ESTABLISHED BY PRIOR SUBMITTALS
2. THE PROPOSED IMPROVEMENTS WILL RESULT IN A CALCULATED INCREASE IN THE DEVELOPED RUNOFF GENERATED BY THE SITE FROM BASINS A, B AND C.
3. THE RUNOFF FROM BASIN A WILL BE DISCHARGED TO THE EXISTING PUBLIC STORM DRAIN THAT PASSES THROUGH TRACT A AND ULTIMATELY OUTFALL TO THE LADERA 16 SOUTH SUMP (PUBLIC DETENTION POND).
4. THE RUNOFF FROM BASIN B WILL BE DISCHARGED TO THE PLAYA NORTH OF THE SITE. THE DISCHARGE OF 2940 CF TO THE EXISTING PLAYA (APPROXIMATELY 3 ACRES IN SIZE) WILL RESULT IN A DEPTH OF 0.02 FT WITHIN THE PLAYA, THEREFORE THE PLAYA CAN RETAIN THE DEVELOPED RUNOFF.
5. THE RUNOFF FROM BASIN C WILL BE DISCHARGED EAST TO A NEW WATER HARVESTING AREA, WITH OVERFLOW DRAINING EAST AND NORTH TO ULTIMATELY OUTFALL TO THE PLAYA NORTH OF THE SITE. THE DISCHARGE OF 3260 CF (V100 = 3900 CF – VFF,C = 640 CF) TO THE EXISTING PLAYA (APPROXIMATELY 3 ACRES IN SIZE), WILL RESULT IN A DEPTH OF 0.03 FT WITHIN THE PLAYA, THEREFORE THE PLAYA CAN RETAIN THE DEVELOPED RUNOFF.
6. THE SITE QUALIFIES FOR FREE DISCHARGE DUE TO PROXIMITY TO THE LADERA BASIN 16 SOUTH SUMP AND THE PREVIOUSLY MENTIONED PUBLIC STORM DRAIN DISCHARGING THERETO.
7. THE FIRST FLUSH FROM THE PROJECT SITE IS MANAGED AND CONTROLLED IN THREE PARTS:

- THE DEVELOPED RUNOFF FROM BASIN A WILL BE DISCHARGED TO THE PUBLIC STORM DRAIN AND OUTFALL TO THE LADERA BASIN 16 SOUTH SUMP (PUBLIC DETENTION POND). THE LARGE SIZE (APPROX. 10 ACRES) OF THE SUMP WILL SERVE TO CONTROL AND MANAGE THE FIRST FLUSH (480 CF) FROM BASIN A.
- THE DEVELOPED RUNOFF FROM BASIN B WILL BE DISCHARGED TO THE PLAYA NORTH OF THE PROJECT SITE, WHERE IT WILL BE RETAINED ONSITE WITH NO OUTFALL, THEREBY CONTROLLING AND MANAGING THE FIRST FLUSH FROM BASIN B (440 CF) ONSITE.
- THE DEVELOPED RUNOFF FROM BASIN C WILL BE DRAINED TO A NEW WATER HARVESTING AREA, WITH OVERFLOW FROM THE WATER HARVESTING AREA DRAINING TO THE PLAYA NORTH OF THE SITE. THE NEW WATER HARVESTING IS SIZED TO CAPTURE THE FIRST FLUSH FROM BASIN C (640 CF), THEREFORE CONTROLLING AND MANAGING IT ONSITE.

8. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWNSTREAM DRAINAGE CONDITIONS.

CALCULATIONS

I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE = 1

B. $P_{100,\ 6\ HR} = P_{360} =$ 2.20 IN
$P_{FIRST\ FLUSH} =$ 0.44 IN

C. TOTAL PROJECT AREA (A_T) = 66,300 SF
1.52 AC

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

a. BASIN A

TREATMENT	AREA (SF/AC)	%
A		
B		
C	60,800 / 1.40	92
D	5,500 / 0.12	8

2. DEVELOPED LAND TREATMENT

a. BASIN A (TO PUBLIC STORM DRAIN) 17,660 SF / 0.40 AC

TREATMENT	AREA (SF/AC)	%
A		
B		
C	760 / 0.02	5
D	16,900 / 0.38	95

b. BASIN B (TO PLAYA) 23,260 SF / 0.53 AC

TREATMENT	AREA (SF/AC)	%
A		
B		
C	10,800 / 0.24	45
D	12,460 / 0.29	55

c. BASIN C (TO PLAYA, ROUTED THROUGH WATER HARVESTING) 25,400 SF / 0.59 AC

TREATMENT	AREA (SF/AC)	%
A		
B		
C	3,800 / 0.09	15
D	21,600 / 0.50	85

II. HYDROLOGY

A. EXISTING CONDITION

1. BASIN A

a. VOLUME
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.44*0.00) + (0.67*0.00) + (0.99*1.40) + (1.97*0.12)/1.52 = 1.07 IN
$V_{100,6\ HR} = (E_W/12)A_T =$ (1.07/12)1.52 = 0.1355 AC-FT = 5,900 CF

b. PEAK DISCHARGE
$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_P = Q_{100} =$ (1.29 * 0.00) + (2.03 * 0.00) + (2.87 * 1.40) + (4.37 * 0.12) = 4.5 CFS

B. DEVELOPED CONDITION

1. BASIN A (TO PUBLIC STORM DRAIN)

a. VOLUME
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.44*0.00) + (0.67*0.00) + (0.99*0.02) + (1.97*0.38)/0.40 = 1.92 IN
$V_{100,\ A} = (E_W/12)A_T =$ (1.92/12)0.40 = 0.0640 AC-FT = 2,790 CF

b. PEAK DISCHARGE
$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_P = Q_{100,\ A} =$ (1.29*0.00) + (2.03*0.00) + (2.87*0.02) + (4.37*0.38) = 1.7 CFS

c. FIRST FLUSH (90TH PERCENTILE STORM EVENT)
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.00*0.00) + (0.00*0.00) + (0.09*0.02) + (0.34*0.38)/0.40 = 0.33 IN
$V_{FIRST\ FLUSH} = (E_W/12)A_T =$ (0.33/12)0.40 = 0.0110 AC-FT = 480 CF

d. LADERA BASIN 16 SOUTH SUMP CAPACITY (PUBLIC DETENTION POND)
- BASED ON REVIEW OF GOOGLE EARTH MAP FOR SOUTH SUMP
- AREA OF SOUTH SUMP ($A_{SOUTH\ SUMP}$) ≈ 10 AC
- AVERAGE DEPTH OF SOUTH SUMP ≈ 5 FT
- VOLUME OF SOUTH SUMP ($A_{SOUTH\ SUMP}$) ≈ 10 AC x 5 FT ≈ 2,200,000 CF
- FIRST FLUSH DISCHARGED TO SOUTH SUMP ($V_{FIRST\ FLUSH}$) = 480 CF = 0.0110 AC-FT
- DEPTH OF RUNOFF IN SUMP DUE TO FIRST FLUSH = $V_{FIRST\ FLUSH} / A_{SOUTH\ SUMP}$

  $D_{FIRST\ FLUSH}$ = 0.0110 AC-FT / 10 AC
  $D_{FIRST\ FLUSH}$ = 0.001 FT ∴ SOUTH SUMP WILL CONTROL FIRST FLUSH FROM BASIN A

2. BASIN B (TO PLAYA)

a. VOLUME
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.44*0.00) + (0.67*0.00) + (0.99*0.24) + (1.97*0.29)/0.53 = 1.53 IN
$V_{100,\ B} = (E_W/12)A_T =$ (1.53/12)0.53 = 0.0676 AC-FT = 2,940 CF

b. PEAK DISCHARGE
$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_P = Q_{100,\ B} =$ (1.29*0.00) + (2.03*0.00) + (2.87*0.24) + (4.37*0.29) = 2.0 CFS

c. FIRST FLUSH (90TH PERCENTILE STORM EVENT)
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.00*0.00) + (0.00*0.00) + (0.09*0.24) + (0.34*0.29)/0.53 = 0.23 IN
$V_{FIRST\ FLUSH} = (E_W/12)A_T =$ (0.23/12)0.53 = 0.0102 AC-FT = 440 CF

d. PLAYA CAPACITY - FIRST FLUSH
- LOCATED BETWEEEN DIAGNOSTIC CENTER TO SOUTH & SCHOOL ON WHEELS TO NORTH
- AREA OF PLAYA (A_{PLAYA}) ≈ 3 AC
- FIRST FLUSH DISCHARGED TO SOUTH SUMP ($V_{FIRST\ FLUSH}$) = 440 CF = 0.0102 AC-FT
- DEPTH OF RUNOFF ON PLAYA DUE TO FIRST FLUSH = $V_{FIRST\ FLUSH} / A_{PLAYA}$

  $D_{FIRST\ FLUSH}$ = 0.0102 AC-FT / 3 AC
  $D_{FIRST\ FLUSH}$ = 0.003 FT ∴ PLAYA WILL CONTROL FIRST FLUSH FROM BASIN B

e. PLAYA CAPACITY - $V_{100,\ DEV\ B}$
- LOCATED BETWEEEN DIAGNOSTIC CENTER TO SOUTH & SCHOOL ON WHEELS TO NORTH
- AREA OF PLAYA (A_{PLAYA}) ≈ 3 AC
- DEVELOPED RUNOFF DISCHARGED TO PLAYA ($V_{100,B}$) = 2,940 CF = 0.0676 AC-FT
- DEPTH OF RUNOFF ON PLAYA DUE TO BASIN B = $V_{100,B} / A_{PLAYA}$

  $D_{100,B}$ = 0.0676 AC-FT CF / 3 AC
  $D_{100,B}$ = 0.02 FT ∴ PLAYA CAN RETAIN RUNOFF FROM BASIN B

3. BASIN C (TO PLAYA, ROUTED THROUGH WATER HARVESTING)

a. VOLUME
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.44*0.00) + (0.67*0.00) + (0.99*0.09) + (1.97*0.50)/0.59 = 1.82 IN
$V_{100,\ A} = (E_W/12)A_T =$ (1.82/12)0.59 = 0.0895 AC-FT = 3,900 CF

b. PEAK DISCHARGE
$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$
$Q_P = Q_{100,\ A} =$ (1.29*0.00) + (2.03*0.00) + (2.87*0.09) + (4.37*0.50) = 2.4 CFS

c. FIRST FLUSH (90TH PERCENTILE STORM EVENT)
$E_W = (E_AA_A+E_BA_B+E_CA_C+E_DA_D)/A_T$
$E_W =$ (0.00*0.00) + (0.00*0.00) + (0.09*0.09) + (0.34*0.50)/0.59 = 0.30 IN
$V_{FIRST\ FLUSH} = (E_W/12)A_T =$ (0.30/12)0.59 = 0.0148 AC-FT = 640 CF

d. WATER HARVESTING AREA CAPACITY

i. WATER HARVESTING AREA #2 - OVERFLOW @ 5114.1

ELEV	AREA	VOLUME (CF)	ΣVOLUME (CF)
5113	200		
		390	390
5114	580		
		60	450
5114.1	620		

ii. WATER HARVESTING AREA #3 - OVERFLOW @ 5115.3

ELEV	AREA	VOLUME (CF)	ΣVOLUME (CF)
5114	30		
		175	175
5115	320		
		115	290
5115.3	440		

iii. WATER HARVESTING AREA #4 - OVERFLOW @ 5115.4

ELEV	AREA	VOLUME (CF)	ΣVOLUME (CF)
5114	110		
		230	230
5115	350		
		160	390
5115.4	460		

$V_{TOTAL\ WATER\ HARVESTING}$ = 450 + 290 + 390 = 1130 CF > $V_{FIRST\ FLUSH}$ = 640 CF ∴ WATER HARVESTING WILL MANAGE FIRST FLUSH

e. PLAYA CAPACITY - $V_{100,\ DEV\ C}$
- LOCATED BETWEEEN DIAGNOSTIC CENTER TO SOUTH & SCHOOL ON WHEELS TO NORTH
- AREA OF PLAYA (A_{PLAYA}) ≈ 3 AC
- DEVELOPED RUNOFF DISCHARGED TO PLAYA ($V_{OVERFLOW,C}$) = $V_{100,C}$ - $V_{WATER\ HARVESTING}$

  $V_{OVERFLOW,\ C}$ = 3,900 CF - 680 CF = 3220 CF = 0.0739 AC-FT
- DEPTH OF RUNOFF ON PLAYA DUE TO BASIN C = $V_{OVERFLOW,\ C} / A_{PLAYA}$

  $D_{OVERFLOW,C}$ = 0.0739 AC-FT CF / 3 AC
  $D_{OVERFLOW,C}$ = 0.03 FT ∴ PLAYA CAN RETAIN RUNOFF FROM BASIN C

C. COMPARISON

1. BASIN A

a. VOLUME DISCHARGED FROM BASIN
$\Delta V_{100,\ BASIN\ A}$ = 2,790 - 5,900 = -3,110 CF (DECREASE)

b. PEAK DISCHARGE DISCHARGED FROM BASIN
$\Delta Q_{100,\ BASIN\ A}$ = 1.7 - 4.5 = -2.8 CFS (DECREASE)

c. FIRST FLUSH REQ'D VS VOLUME CONTROLLED (BASIN A TO LADERA BASIN SOUTH SUMP)
$V_{FIRST\ FLUSH}$ = 480 CF < $V_{SOUTH\ SUMP\ CAP}$ ≈ 2,200,000 CF ∴ FIRST FLUSH IS MANAGED

2. BASIN B

a. VOLUME
$\Delta V_{100,\ BASIN\ B}$ = 2,940 - 0 = 2,940 CF (INCREASE)

b. PEAK DISCHARGE
$\Delta Q_{100,\ BASIN\ B}$ = 2.0 - 0.0 = 2.0 CFS (INCREASE)

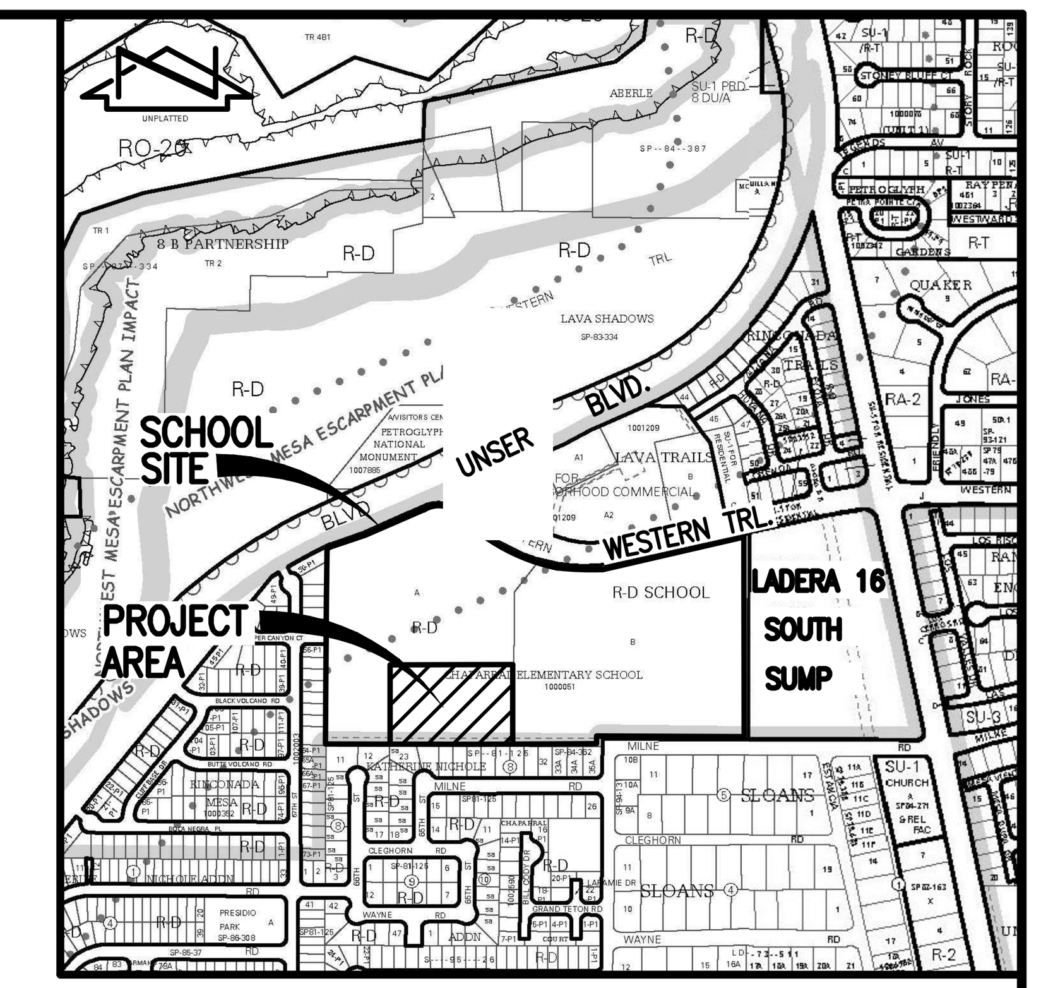
c. FIRST FLUSH REQ'D VS VOLUME CONTROLLED (BASIN B TO PLAYA)
$V_{FIRST\ FLUSH}$ = 440 CF; $V_{PLAYA\ AREA}$ ≈ 3 AC; RUNOFF DEPTH IN PLAYA DUE TO FIRST FLUSH INCREASES BY 0.003 FT ∴ FIRST FLUSH IS MANAGED

3. BASIN C

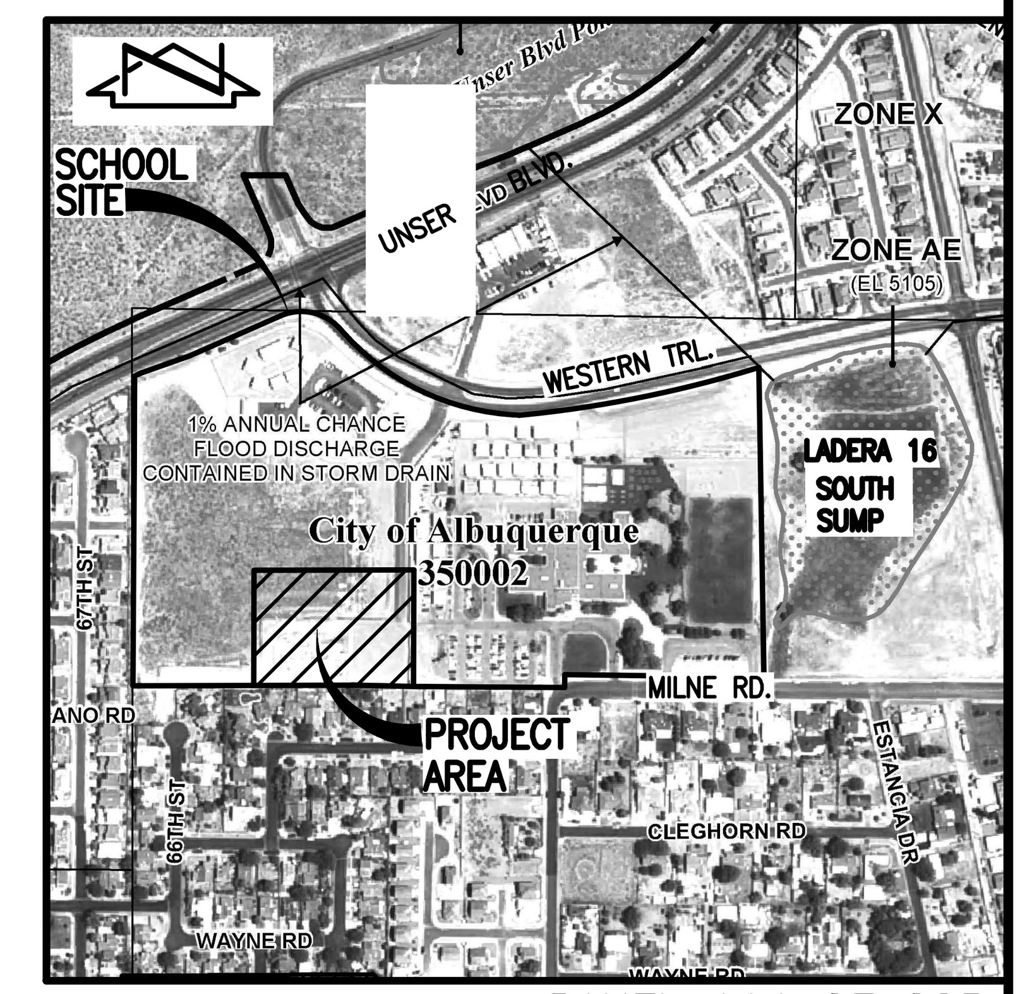
a. VOLUME
$\Delta V_{100,\ BASIN\ C}$ = 3,900 - 0 = 3,900 CF (INCREASE)

b. PEAK DISCHARGE
$\Delta Q_{100,\ BASIN\ C}$ = 2.4 - 0.0 = 2.4 CFS (INCREASE)

c. FIRST FLUSH REQ'D VS VOLUME CONTROLLED (BASIN C TO WATER HARVESTING)
$V_{FIRST\ FLUSH}$ = 640 CF < $V_{WATER\ HARVESTING}$ = 1130 CF ∴ FIRST FLUSH IS MANAGED



VICINITY MAP
SCALE: 1" = 750'
F-10



F.I.R.M.
SCALE: 1" = 500'
PANEL 114 OF 825
08-16-2012

LEGAL DESCRIPTION

TRACTS A AND B, CHAPARRAL ELEMENTARY SCHOOL, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON JANUARY 11, 2000, BOOK 2000C, PAGE 9.

BENCHMARKS:

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184", AS SHOWN ON SHEET 2.
ELEVATION = 5113.74 FEET (NAVD 88)

3

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
08-09-2016

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER
ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN 12-18-2014

File Path: P:\DATA\2013.186.5\ENG\RECORD DWGS\ | Plot Date: 08-09-2016
File Name: 121831_SH9_RD.DWG | Plot Time: 5:07 pm

HIGH MESA Consulting Group
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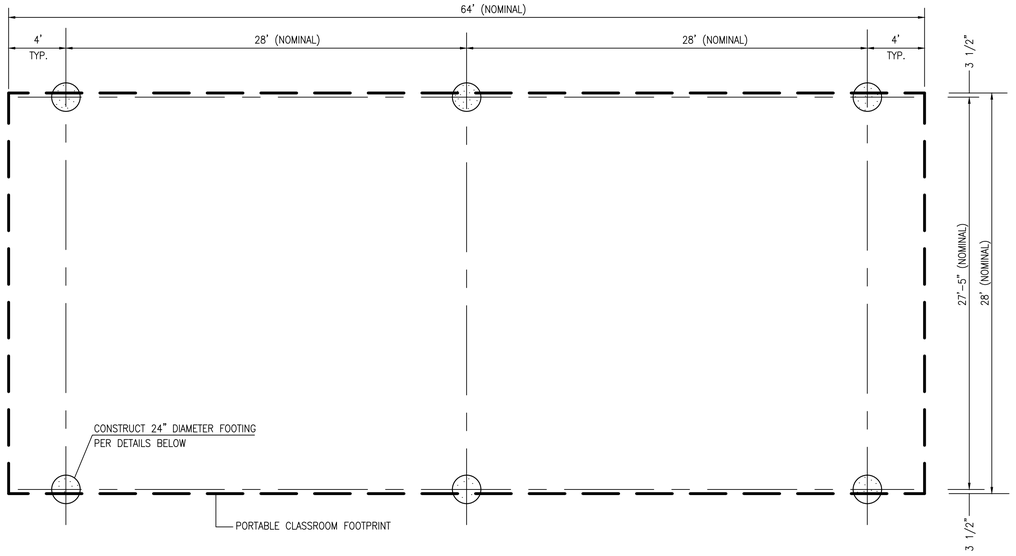
DRAINAGE PLAN AND CALCULATIONS
NORTHWEST DIAGNOSTIC CENTER - PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./J.D.S.
APPROVED BY J.G.M.

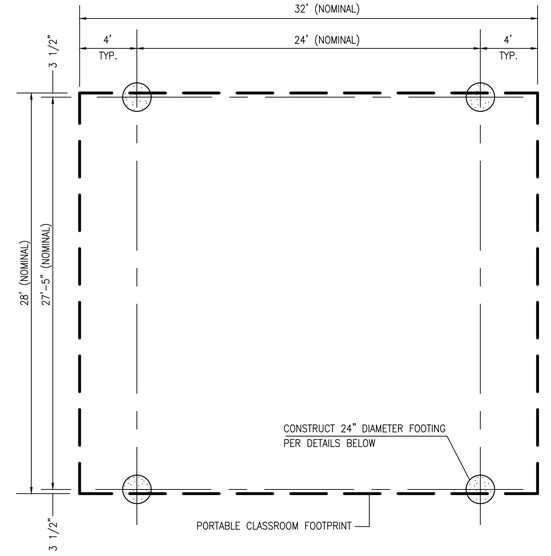
NO.	DATE	BY	REVISIONS
3	08/16	GM	RECORD DRAWING AND CERTIFICATION

JOB NO. 2013.186.5 ~~2013.186.5~~
DATE 12-2014
SHEET 9 OF 15



C1 DOUBLE PORTABLE CLASSROOM FOUNDATION PLAN

SCALE: 1" = 5' – 0"

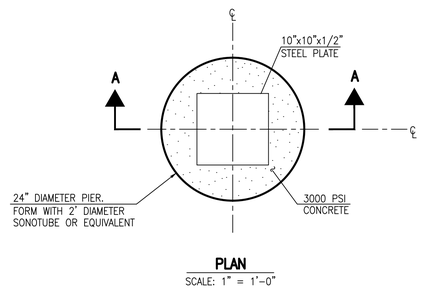


C4 SINGLE PORTABLE CLASSROOM FOUNDATION PLAN

SCALE: 1" = 5' – 0"

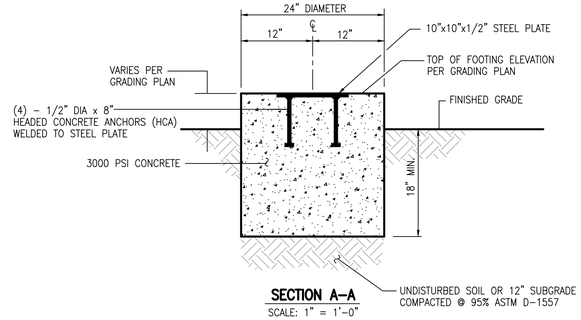
FOUNDATION AND PORTABLE INSTALLATION NOTES;

1. FOUNDATION LOCATIONS SHALL BE STAKED BY THE PROJECT SURVEYOR UNDER CONTRACT WITH THE OWNER.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN FOUNDATIONS HAVE BEEN EXCAVATED AND ALL FORMS SET.
3. PRIOR TO POURING FOUNDATIONS, THE ENGINEER, OR HIS REPRESENTATIVE, SHALL OBSERVE AND APPROVE THE WORK FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
4. THE ENGINEER, OR HIS REPRESENTATIVE, SHALL BE PRESENT TO OBSERVE THE POURING OF CONCRETE WITHIN THE FOUNDATION FORMS.
5. UPON COMPLETION OF CONSTRUCTION OF THE FOUNDATIONS, THE PROJECT SURVEYOR SHALL OBTAIN AS–BUILT MEASUREMENTS FOR THE HORIZONTAL AND VERTICAL LOCATIONS OF EACH FOUNDATION.
6. PRIOR TO INSTALLATION OF THE PORTABLE CLASSROOM BUILDINGS, THE ENGINEER SHALL REVIEW THE AS–BUILT SURVEY DATA AND PREPARE A FOUNDATION CERTIFICATION. PORTABLE BUILDINGS SHALL NOT BE INSTALLED WITHOUT THE CONSENT OF THE ENGINEER.
7. A PRE–INSTALLATION MEETING SHALL BE CONDUCTED PRIOR TO INSTALLATION OF THE PORTABLE CLASSROOM BUILDINGS TO DETERMINE THE CRITERIA FOR ALIGNING EACH BUILDING WITH RESPECT TO THE AS–CONSTRUCTED FOUNDATION LOCATIONS. ANY BUILDING INSTALLED IN ADVANCE OF A PRE–INSTALLATION MEETING SHALL BE ADJUSTED TO THE SATISFACTION OF THE OWNER AND THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
8. SEISMIC SITE CLASS D (VINYARD & ASSOC. REPORT, NMPE 8261, DATED SEPTEMBER 15, 2009)



PLAN

SCALE: 1" = 1'–0"



SECTION A–A

SCALE: 1" = 1'–0"

A1 FOOTING DETAILS

SCALE: 1" = 1'–0"

2

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY , TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE FOUNDATIONS (SPOT FOOTINGS) DEPICTED HEREON HAVE BEEN GRADED IN SUBSTANTIAL COMPLIANCE (WITHIN 0.03' VERTICALLY) WITH THE APPROVED PLANS AND SPECIFICATIONS DATED 12–18–2014 WITH EXCEPTIONS AS NOTED BELOW:

- THE FRONT CENTER PIER (SPOT FOOTING) OF D319 MAY REQUIRE ADJUSTMENTS BECAUSE THE CONCRETE IS VISIBLY HIGHER THAT THE SURFACE OF THE STEEL PLATE.
- THE FRONT CENTER PIER (SPOT FOOTING) OF D350 MAY REQUIRE ADJUSTMENTS BECAUSE THE CONCRETE IS VISIBLY HIGHER THAT THE SURFACE OF THE STEEL PLATE.
- THE ELEVATION OF THE PIER (SPOT FOOTING) AT THE SOUTHWEST CORNER OF SC803 IS 0.08' 1–INCH) TOO HIGH BASED UPON THE APPROVED PLAN; SHIMMING OF THE OTHERTHREE (3) PIERS OR RECONSTRUCTION OF THE NONCONFORMING PIER MAY BE REQUIRED.

THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED FROM AN AS–BUILT SURVEY CONDUCTED BY HIGH MESA CONSULTING GROUP UNDER THE DIRECTION OF JOSEPH M. SOLOMON, JR., NMPS 15075, DATED 02–01–2016 AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

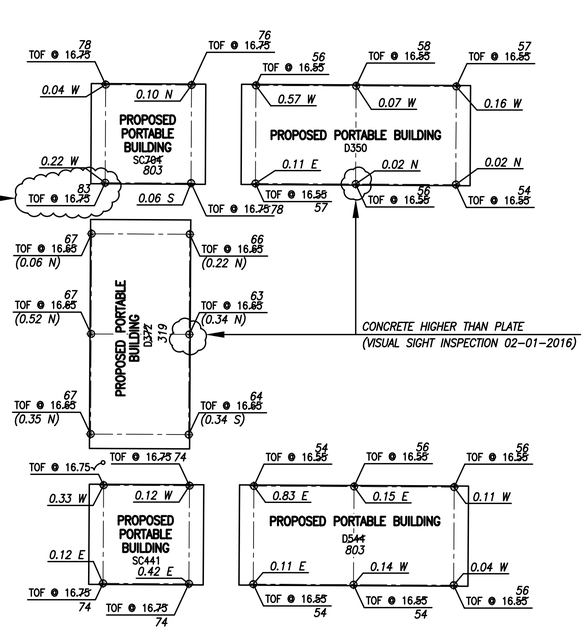
THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING OF THE FOUNDATION DESIGN ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED TO DOCUMENT THE CONDITIONS OF PIER CONSTRUCTION FOR THE OWNER IN ADVANCE OF INSTALLATION OF PORTABLE BUILDING.

ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN 02–11–2016

JEFFREY G. MORTENSEN, NMPE 8547

DATE

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER



2 A5 FOUNDATION PLAN

SCALE: 1" = 20'–0"

2

RECORD DRAWING

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

ORIGINAL DRAWING SIGNED BY JEFFREY G. MORTENSEN 12–18–2014

HIGH MESA Consulting Group
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PORTABLE CLASSROOM FOUNDATION PLAN
NORTHWEST DIAGNOSTIC CENTER – PHASE 2
CHAPARRAL ELEMENTARY SCHOOL
6450 WESTERN TRAIL NW

DESIGNED BY	J.D.S.
DRAWN BY	J.Y.R./J.D.S.
APPROVED BY	J.G.M.

NO.	DATE	BY	REVISIONS
2	02/16	JGM	REVISE BUILDING #'s, FDTN CERTIFICATION

JOB NO. 2013.186.5 ~~2012.183.1~~

DATE 12–2014

SHEET 13 OF 15

File Path:P:\JOBS\2013\186.5\DWG\RECORD DWGS\ | Plot Date: 08–09–2016
File Name:121831_SH13_P2_RD.DWG | Plot Time: 5:08 pm