CITY OF ALBUQUERQUE

April 30, 2010

Jennifer M. Flor, P.E.
Wilson & Company, Inc.
2600 The American Road SE, Suite 100
Rio Rancho, NM 87124

Re: West Mesa High School Parking Lot Grading and Drainage Plan
Engineer's Stamp dated 4-13-10 (J10/D005)

Dear Ms. Flor,

Based upon the information provided in your submittal received 4-14-10, the above referenced plan is approved for Grading Permit and Paving Permit.

Please verify the inverts for the existing and proposed storm drain. There may be an inconsistency between the StormCad data and the Grading Plan.

Upon completion of the project, please submit an Engineer's Certification for our files.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 12/05 - AP)

PROJECT TITLE: West Mesa High School Parking Lot ZONE MAP/DRG. FILE#: J-10-Z/D005

DRB#: _____ EPC#: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts 166 Thru 174 Airport Unit, Town of Atrisco Grant. Plat Filed: December 5, 1944.

CITY ADDRESS: 6701 Fortuna Road NW, Albuquerque, NM 87121

ENGINEERING FIRM:	Wilson & Company	CONTACT:	Jennifer Flor, PE
ADDRESS:	2600 The American Road SE, Ste 100	PHONE:	505-948-5129
CITY, STATE:	Rio Rancho, NM	ZIP CODE:	87109
OWNER:	APS	CONTACT:	David Ritchey
ADDRESS:	915 Oak Street	PHONE:	505-977-5829
CITY, STATE:	Albuquerque New Mexico	ZIP CODE:	87106
ARCHITECT:			
ADDRESS:			
CITY, STATE:			
SURVEYING FIRM:	Wilson & Company	LICENSED SURVEYOR:	Ben Aragon
ADDRESS:	4900 Lang Ave. NE	PHONE:	505-348-4067
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87109
CONTRACTOR:		CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	

CHECK TYPE OF SUBMITTAL:

___ DRAINAGE REPORT - RESUBMITTAL
___ DRAINAGE PLAN 1st SUBMITTAL
X DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR\LOMR
___ TRAFFIC CIRCULTAION LAYOUT
___ ENGINEER/ARCHITECT CERT (TCL)
___ ENGINEER/ARCHITECT CERT (DRB S. P.)
___ ENGINEER/ARCHITECT CERT (AA)
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:

___ SIA / FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D. APPROVAL
___ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM.)
___ CERTIFICATE OF OCCUPANCY (TEMP)
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
X OTHER (SPECIFY) Grading/drainage plan approval

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
X NO
_____ COPY PROVIDED

RECEIVED
APR 14 2010
HYDROLOGY SECTION

Submitted By: Jennifer Flor DATE: 04/14/2010

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

Site Location & Project Description: West Mesa High School is a 40.0 acre property located in northwest Albuquerque, NM, bordered by 72nd Street to the west, Glenrio Road to the north, Fortuna Road to the south, and 64th Street to the east. The basis of this analysis is the West Mesa Diversion Project by Smith Engineering Co. (hereafter, Reference 1) and the G&D Drainage Master Plan by Wilson & Co. 2009 (Reference 2). This grading and drainage plan is for the proposed parking lot at the south end of the campus adjacent to Fortuna Road.

Methodology: The AHYMO computer program was used to calculate design flows. This software adheres to Section 22.2 of the City of Albuquerque DPM. The 100-year, 24-hour storm event frequency is the design storm computed for the improvements. The site is located in Precipitation Zone 1, west of the Rio Grande, as designated in Table A-1. All basins were delineated using AutoCAD software to determine areas. AHYMO input files have been submitted as an appendix to this drainage report.

Existing Conditions: The proposed parking lot affects Basins 103, 105, 107 and 110. The approved master plan shows basins 103, 105 and 110 draining to the southeast section of the campus, where an existing storm drain collects flows generated onsite and discharges to the storm drain in 64th Street. The existing 24" storm drain is located in the existing parking lot and travels west to east towards the connection in 64th Street. A series of existing area inlets collects flows from the parking lot. Basin 107 ponds without an outlet.

Proposed Conditions: Under proposed conditions, Basins 103, 105, 107 and 110 were modified as shown on this plan. The changes include:

- Moving the southern boundaries of Basins 103 and 110 to the right-of-way line since proposed improvements in Fortuna Road will have all flows in the ROW draining to the street.
- Adjusting the southern boundaries of Basins 105 and 107 to align with the proposed sidewalks and areas that will drain to the parking lot.
- Increasing the percentage of D land treatment in Basin 110 from 5% to 15% due to the added parking lot.
- Adding 6 inlets throughout the parking lot area to capture onsite flows.

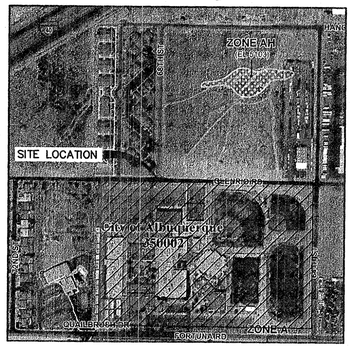
The results of these changes are as follows:

	Basin 103	Basin 105	Basin 107	Basin 110
Existing Area (ac)	4.98	1.24	2.55	3.26
Existing Peak Flow (cfs)	15.22	4.71	10.35	8.94
Existing Peak Volume (ac-ft)	0.936	0.212	0.486	0.269
Proposed Area (ac)	5.38	1.18	2.48	2.67
Proposed Peak Flow (cfs)	16.39	4.71	10.35	7.52
Proposed Volume (ac-ft)	1.01	0.21	0.486	0.246

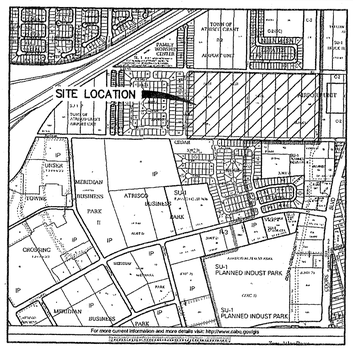
Hydraulic Analysis StormCAD V8i was used to model the existing and proposed storm drain. Existing storm drain information was taken from survey data where available. Proposed storm drain information is included in this grading and drainage report. A minimum of 18" of cover was maintained for the proposed storm drain.

Results The main east-west run of the storm drain has velocities between 3 and 9 fps. The smaller 12" lines that connect to the new inlets have velocities between 1 and 3 fps. The relatively flat site dictatest that slopes be maintained at 0.5% for the entire system.

Conclusion: The proposed parking lot improvements and associated storm drain improvements will maintain existing flow patterns per the approved Drainage Master Plan (Reference 2). The storm drain was modeled with existing and proposed storm drain and results show that the storm drain will function to drain the parking lot and surrounding basins.



FLOOD INSURANCE RATE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 327 – MAP# 35001C0327G



LOCATION
ZONE ATLAS MAP NO. J–10

LEGAL DESCRIPTION

TRACTS 166 THRU 174
AIRPORT UNIT, TOWN OF ATRISCO GRANT
PLAT FILED: DECEMBER 5, 1944 (D–117)

PROJECT BENCHMARK

ACS STATION "17–J11" SET FLUSH IN SIDEWALK, NNE QUADRANT OF COORS AND FORTUNA ROAD NW, 0.5' EAST OF THE BACK OF CURB AND APPROX. 4 FEET WEST OF A TRAFFIC LIGHT POLE
ELEVATION = 5098.437 ft. MSLD 1929

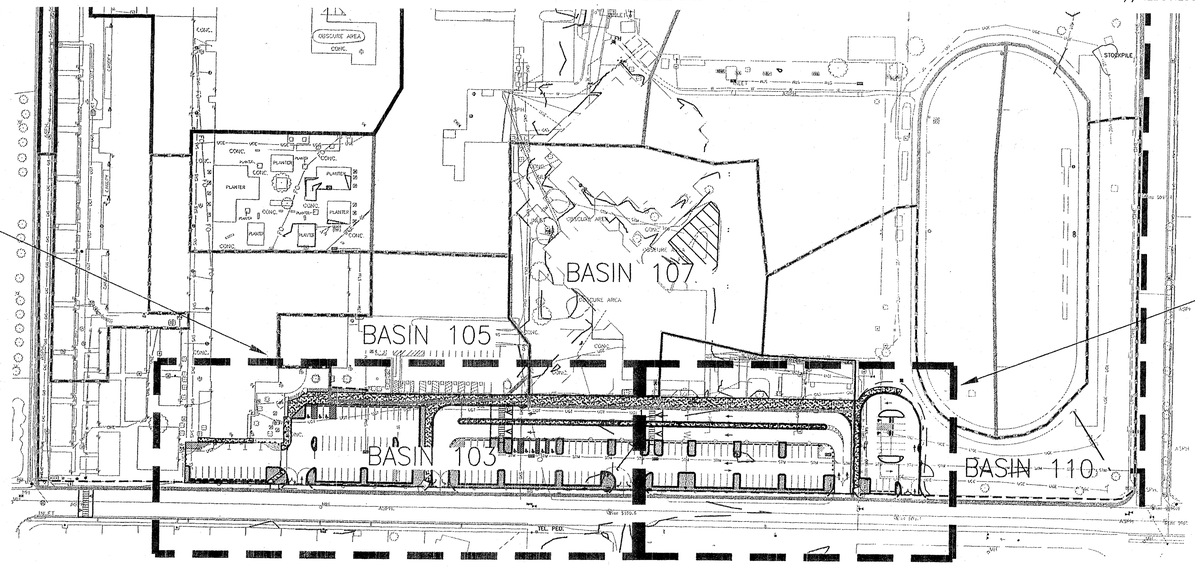
SURVEY INFO

MAPPING AND TOPOGRAPHIC SURVEY PERFORMED
BY WILSON & CO., INC., ENGINEERS & ARCHITECTS
MAPPING – SALINAS, KANSAS OFFICE
TOPO – ALBUQUERQUE, NM OFFICE

NOTES

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, EXCEPT AS NOTED.

SOILS MAP
REFERENCE:
HTTP: //WEBSOILSURVEY.NRCS.USDA.GOV



A1 OVERALL GRADING & DRAINAGE PLAN
SCALE: 1"=100'

LEGEND

EXISTING

TC	TOP OF CURB
FL	FLOWLINE
TA	TOP OF ASPHALT
ME	MATCH EXISTING
TS	TOP OF SIDEWALK
	TREE
	SIGN
	POST
640	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	LIGHT POLE (MAPPING)
	UTILITY POLES (MAPPING)
GAS GAS	LINE–GAS LINE
OHE OHE	LINE–OVERHEAD ELECTRIC
UGT UGT	LINE–TELE–OVERHEAD
UGE UGE	LINE–UNDERGROUND ELECTRIC
W W	LINE–WATER
FO FO	FIBER OPTIC LINE
	OVERHEAD TV CABLE
	FIRE HYDRANT
	LIGHT POLE
	POWER POLE
TB	TRASH BIN
	VALVE–WATER

PROPOSED

	3" ASPHALT FOR FIRE LANE
	3" ASPHALT FOR NON FIRE LANE
	LANDSCAPE BY OTHERS
	MEDIAN CURB AND GUTTER
	FENCE
	PCC
	PROPOSED GATE
	BOLLARD
	SIGN
	TYPE "C" INLET
	TYPE "D" INLET
	ASPHALT CURB AND GUTTER
	HEADER CURB
	EXISTING BASIN BOUNDARY
	PROPOSED BASIN BOUNDARY

WILSON & COMPANY
2600 THE AMERICAN RD. SE SUITE 100
RIO RANCHO, NM 87124
PHONE: 505–898–8021
FAX: 505–898–8501
www.wilsonco.com

CONSULTANTS

SEAL

JENNIFER M. FLOYD
NEW MEXICO
19416
REGISTERED PROFESSIONAL ENGINEER
4/13/2010

PROJECT NAME
ALBUQUERQUE PUBLIC SCHOOLS
WEST MESA HIGH SCHOOL
PARKING LOT IMPROVEMENTS
6701 FORTUNA RD NW
ALBUQUERQUE, NM 87121

MARK	DATE	DESCRIPTION

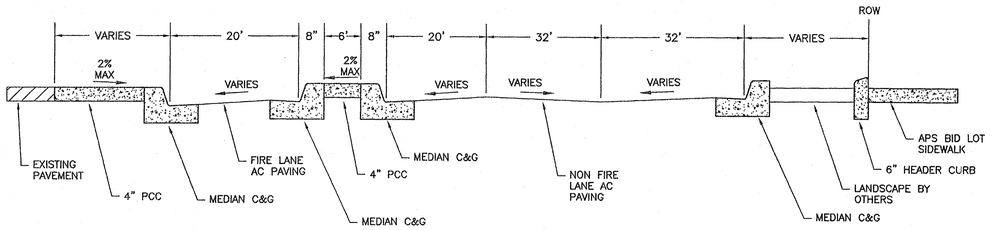
PROJECT NO:	
DESIGNED BY:	JMF
DRAWN BY:	AJM
CHECKED BY:	MJI
DATE:	

SHEET TITLE
OVERALL GRADING & DRAINAGE PLAN

SHEET NO:
C–106

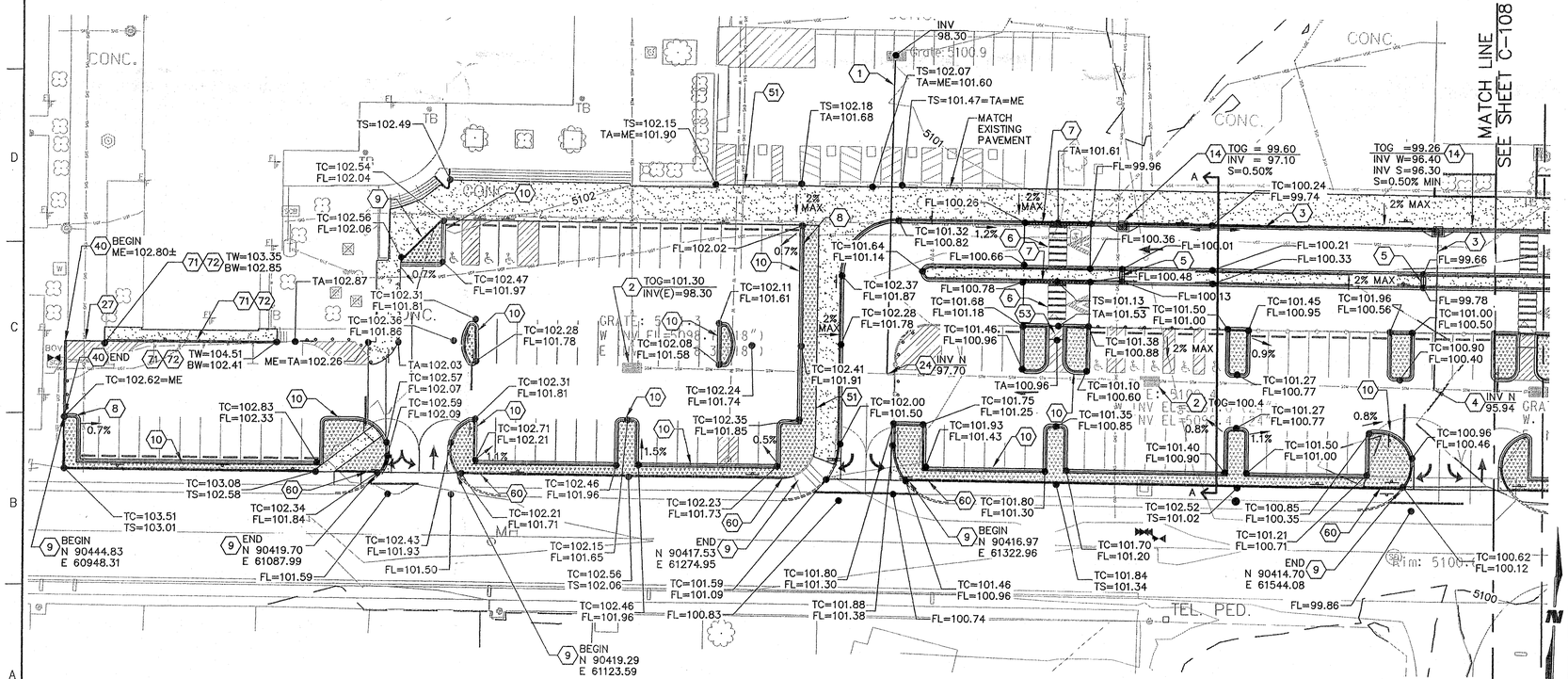
RECEIVED
APR 14 2010
HYDROLOGY
HSTD

M:\IDS\09-600-038-00\CADD\SHEETS\PARKING LOT\04_G&D\96038-PARKING LOT_GD-01-DA.dwg 4/13/2010 11:46:40 AM MDT



F1 SECTION A–A

SCALE: NTS



A1 GRADING & DRAINAGE PLAN

SCALE: 1"=30'

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TA	TOP OF ASPHALT
ME	MATCH EXISTING
TS	TOP OF SIDEWALK

SHEET KEYNOTES

52. INSTALL 8' WIDE CHAINLINK GATE.
53. INSTALL 6' ASPHALT TRANSITION FROM PARKING LOT TO RAISED CROSSWALK. SEE DETAIL E1/C–505.
54. PLACE 6" DASHED WHITE STRIPE (2–COAT APPLICATION).
55. INSTALL TEMPORARY ASPHALT CURB. SEE DETAIL E1/C–503.
56. INSTALL 3" ASPHALT PAVING FOR NON–FIRE LANE. SEE DETAIL A9/C–501.
57. SEE APS BID LOT FOR CONTINUATION.
58. INSTALL BOLLARD AT 6' OC. SEE DETAIL E8/C–503.
59. NOT USED
60. INSTALL 8' TRANSITION FROM 6" HEADER CURB TO NO CURB.
61. INSTALL SIGN TYPE L AND SIGN TYPE I ON SAME POLE.
62. INSTALL 18' CHAINLINK GATE.
63. INSTALL SIGN TYPE A ON FENCE.
64. INSTALL SIGN TYPE H.
65. INSTALL SIGN TYPE M.
66. INSTALL SIGN TYPE J ON FENCE.
67. INSTALL SIGN TYPE N.
68. INSTALL SIGN TYPE K.
69. INSTALL RED STRIPE TO DENOTE FIRE LANE
70. INSTALL SIGN TYPE O
71. INSTALL RETAINING WALL. SEE DETAIL E3/C–503.
72. INSTALL GUARDRAIL. SEE DETAIL D3/C–501.
73. PLACE 6" SOLID YELLOW STRIPE.
74. INSTALL 8" PCC FOR VALLEY GUTTER. SEE DETAIL E6/C–502.

GENERAL CIVIL NOTES

1. COORDINATES HAVE BEEN TRUNCATED. FOR TRUE COORDINATES, ADD 1,400,000 TO NORTHING AND 300,000 TO EASTING.
2. A SITE LAYOUT PLAN FOR THE APS BID LOT WILL BE PROVIDED TO THE CONTRACTOR IN AUTOCAD FORMAT.
3. CONTRACTOR TO PROVIDE SUBMITTAL FOR GATES TO ENGINEER/OWNER FOR APPROVAL.

SHEET KEYNOTES

1. INSTALL 18" HDPE STORM DRAIN.
2. EXISTING INLET.
3. INSTALL 12" HDPE STORM DRAIN.
4. CONNECT TO EXISTING PIPE WITH 12" X 24" TEE.
5. INSTALL 24" SIDEWALK CULVERT. SEE DETAIL A5/C–503.
6. INSTALL RAISED CROSSWALK. SEE DETAIL A1/C–502.
7. INSTALL RAISED CROSSWALK CULVERT. SEE DETAIL G8/C–502.
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10. INSTALL MEDIAN CURB & GUTTER. SEE DETAIL D1/C–503.
11. INSTALL MOUNTABLE CURB & GUTTER. SEE DETAIL A1/C–503.
12. INSTALL 8' TRANSITION FROM MEDIAN CURB & GUTTER TO ROLL CURB & GUTTER.
13. ADJUST EXISTING INLET GRATE TO PROPOSED GRADES.
14. INSTALL SINGLE GRATE TYPE "C" INLET. SEE DETAIL A5/C–504.
15. INSTALL 24" HDPE STORM DRAIN.
16. CONNECT TO EXISTING PIPE WITH 24" X 24" TEE.
17. INSTALL 4" PCC SIDEWALK. SEE DETAIL A4/C–501.
18. PLACE 4" SOLID WHITE STRIPE (2–COAT APPLICATION).
19. PLACE 4" SOLID WHITE DIAGONAL STRIPE.
20. INSTALL THRU TRAFFIC ARROW.
21. INSTALL LEFT TURN TRAFFIC ARROW.
22. INSTALL RIGHT TURN TRAFFIC ARROW.
23. INSTALL LEFT/RIGHT TURN TRAFFIC ARROW.
24. CONNECT TO EXISTING PIPE WITH 18" X 24" TEE.
25. INSTALL 12" STOP BAR (2–COAT APPLICATION).
26. TIE PROPOSED SIDEWALK TO EXISTING SIDEWALK. SEE DETAIL G6/C–501.
27. TIE PROPOSED ASPHALT TO EXISTING SIDEWALK.
28. INSTALL 4'–0" H ADA BLUE PAVEMENT MARKING AND SYMBOL FOR HANDICAP PARKING (TYP).
29. INSTALL 4" ADA BLUE STRIPE.
30. INSTALL 4" ADA DIAGONAL BLUE STRIPE.
31. INSTALL 28' PIPEGATE. SEE DETAIL D5/C–505.
32. INSTALL 40' PIPEGATE. SEE DETAIL D5/C–505.
33. INSTALL 8' WIDE OPENING IN FENCE LINE. SEE DETAIL A8/C–505.
34. INSTALL SIGN TYPE A.
35. INSTALL SIGN TYPE B.
36. INSTALL SIGN TYPE B AND SIGN TYPE C ON SAME POLE.
37. INSTALL SIGH TYPE D
38. INSTALL SIGN TYPE E
39. INSTALL WHEEL STOP. SEE DETAIL E9/C–501.
40. INSTALL 8" CUTOFF WALL PER COA STD DWG 2415B
41. ADJUST EXISTING UTILITY BOX OR CLEANOUT TO GRADE.
42. INSTALL SIGN TYPE F.
43. INSTALL WHEELCHAIR RAMP. SEE DETAIL F7/C–504.
44. INSTALL 3" ASPHALT PAVING FOR FIRE LANE. SEE DETAIL C9/C–501.
45. INSTALL SIGN TYPE G AND SIGN TYPE I ON SAME POLE.
46. RELOCATE EXISTING LIGHT POLES.
47. PLACE 6" SOLID WHITE STRIPE (2–COAT APPLICATION).
48. PLACE 12" X 18" WHITE YIELD TRIANGLES.
49. INSTALL SINGE TYPE "D" INLET. SEE DETAIL A5/C–502.
50. INSTALL 5'–0" CHAINLINK FENCE. SEE DETAIL F6/C–501.
51. INSTALL TURNDOWN SIDEWALK. SEE DETAIL A1/C–501.

WILSON & COMPANY
2600 THE AMERICAN RD. SE SUITE 100
RIO RANCHO, NM 87124
PHONE: 505–898–8021
FAX: 505–898–8501
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CONSULTANTS

SEAL

JENNIFER M. FLOR
NEW MEXICO
19416
REGISTERED PROFESSIONAL ENGINEER

PROJECT NAME

ALBUQUERQUE PUBLIC SCHOOLS
WEST MESA HIGH SCHOOL
PARKING LOT IMPROVEMENTS
6701 FORTUNA RD NW
ALBUQUERQUE, NM 87121

MARK	DATE	DESCRIPTION

PROJECT NO:	
DESIGNED BY:	JMF
DRAWN BY:	AJM
CHECKED BY:	MJI
DATE:	

SHEET TITLE

GRADING & DRAINAGE PLAN

SHEET NO:

C–107

RECEIVED
APR 14 2010
HYDROLOGY SECTION

M:\IDS\09-600-038-00\CADD\SHEETS\PARKING LOT\04_G&D\96038-PARKING LOT_GD-02.dwg 4/13/2010 11:48:04 AM MDT

LEGEND

TC	TOP OF CURB
FL	FLOWLINE
TA	TOP OF ASPHALT
ME	MATCH EXISTING
TS	TOP OF SIDEWALK

SHEET KEYNOTES

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73. PLACE 6" SOLID YELLOW STRIPE.
74. INSTALL 8" PCC FOR VALLEY GUTTER. SEE DETAIL E6/C-502.

GENERAL CIVIL NOTES

1. COORDINATES HAVE BEEN TRUNCATED. FOR TRUE COORDINATES, ADD 1,400,000 TO NORTHING AND 300,000 TO EASTING.
2. A SITE LAYOUT PLAN FOR THE APS BID LOT WILL BE PROVIDED TO THE CONTRACTOR IN AUTOCAD FORMAT.
3. CONTRACTOR TO PROVIDE SUBMITTAL FOR GATES TO ENGINEER/OWNER FOR APPROVAL.

SHEET KEYNOTES

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2. EXISTING INLET.
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11. INSTALL MOUNTABLE CURB & GUTTER. SEE DETAIL A1/C-503.
12. INSTALL 8' TRANSITION FROM MEDIAN CURB & GUTTER TO ROLL CURB & GUTTER.
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14. INSTALL SINGLE GRATE TYPE "C" INLET. SEE DETAIL A5/C-504.
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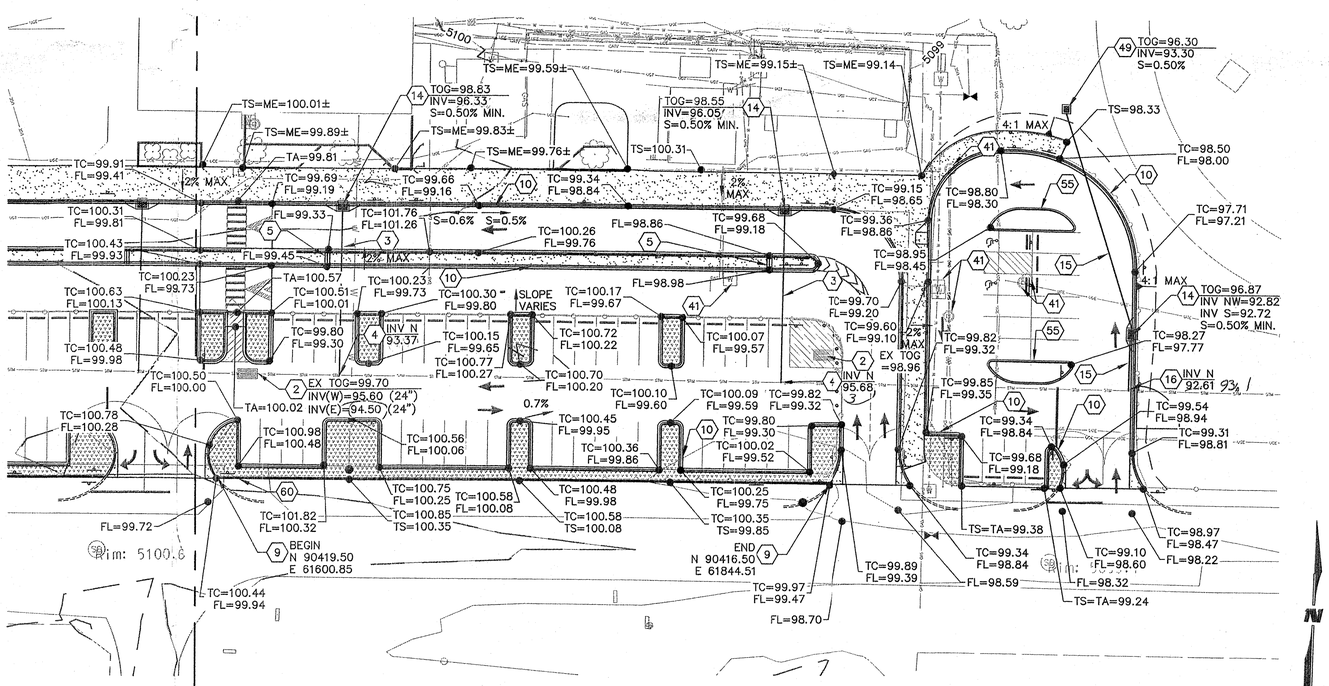
50. INSTALL 5'-0" CHAINLINK FENCE. SEE DETAIL F6/C-501.
51. INSTALL TURNDOWN SIDEWALK. SEE DETAIL A1/C-501.

MATCH LINE
SEE SHEET C-107



A3 GRADING & DRAINAGE PLAN
SCALE: 1"=30'

WILSON & COMPANY
2600 THE AMERICAN RD. SE SUITE 100
RIO RANCHO, NM. 87124
PHONE: 505-898-8021
FAX: 505-898-8501
www.wilsonco.com

CONSULTANTS

SEAL
JENNIFER M. FLOYD
NEW MEXICO
19416
REGISTERED PROFESSIONAL ENGINEER

PROJECT NAME
ALBUQUERQUE PUBLIC SCHOOLS
WEST MESA HIGH SCHOOL
PARKING LOT IMPROVEMENTS
6701 FORTUNA RD NW
ALBUQUERQUE, NM 87121

MARK	DATE	DESCRIPTION

PROJECT NO:	
DESIGNED BY:	JMF
DRAWN BY:	AJM
CHECKED BY:	MJI
DATE:	

SHEET TITLE
GRADING & DRAINAGE PLAN

SHEET NO:
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