CITY OF ALBUQUERQUE

TO: Jeff Mortensen
from: Curtis

July 21, 2010

Glenn S. Broughton, P.E.
Bohannan Huston
7500 Jefferson NE
Albuquerque, NM 87109

Re: Truman Middle School Phase 1 Improvements Grading and Drainage Plan Engineer's Stamp date 5-25-10 and PH 1 DMP Stamp date 7-19-10 (M09/D013)

Dear Mr. Broughton,

Based upon the information provided in your submittal received 7-19-10, the above referenced plans are approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge and a Topsoil Disturbance Permit since it is disturbing ¾ of an acre or more.

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
Kathy Verhage, DMD

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

PROJECT TITLE: TRUMAN MIDDLE SCHOOL ZONE MAP: M-09/D013

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

LEGAL DESCRIPTION: _____

CITY ADDRESS: _____

ENGINEERING FIRM: Bohannan-Huston CONTACT: 823-1000

ADDRESS: 7500 Jefferson St PHONE: _____

CITY, STATE: ABQ NM ZIP CODE: 87109

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: FBT Architect CONTACT: _____

ADDRESS: 6100 Indian School PHONE: 883 5200

CITY, STATE: ABQ NM ZIP CODE: 87110

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN 1st SUBMITTAL
X DRAINAGE PLAN RESUBMITTAL
_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
_____ ENGINEER'S CERT (HYDROLOGY)
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT
_____ ENGINEER'S CERT (TCL)
_____ ENGINEER'S CERT (DRB SITE PLAN)
_____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:

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

RECEIVED
JUL 19 2010
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
_____ NO
_____ COPY PROVIDED

DATE SUBMITTED: July 19, 2010 BY: Brian Warren

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines 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 (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

JOB NUMBER 320

N

B1 DRAINAGE MANAGEMENT PLAN

1" = 50' (0, 50, 100)

Storage Table

Proposed Pond System - Phase I

Bottom EL	5112.00	5109.00	5111.00	5109.00
Top EL	5114.00	5114.00	5114.00	5114.00

Elev.	Pond 1 Volume (ft^3)	Pond 2 Volume (ft^3)	Pond 3 Volume (ft^3)	Pond 4 Volume (ft^3)	Total Volume (ft^3)	Storage Volume (Ac-ft)
5109.00	0.00	0.00	0.00	0.00	0.00	0.0000
5110.00	0.00	5822.64	0.00	1503.70	7326.35	0.1682
5111.00	0.00	13070.70	0.00	3670.34	16741.03	0.3843
5112.00	0.00	21856.82	2733.70	6579.63	31170.15	0.7156
5113.00	3912.67	32296.50	7345.17	10322.36	53876.70	1.2368
5114.00	8962.47	44492.45	21636.93	14989.42	90081.27	2.0680

TRUMAN MIDDLE SCHOOL ADDITION - PHASE 1

Developed Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone: 1

Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100yr) (cfs/ac.)	Q(100yr) (CFS)	V(100yr) (inches)	$V_{(100yr-6hr)}$ (CF)	$V_{(100yr-24hr)}$ (CF)	Q(2yr) (cfs/ac.)	Q(2yr) (CFS)	WT E (inches)	$V_{(2yr-6hr)}$ (CF)	$V_{(2yr-24hr)}$ (CF)
CURRENT ONSITE BASINS																
A	50075	1.15	0.0%	0.0%	25.0%	75.0%	4.00	*4.59*	*1.73*	*7198*	*8638*	1.39	*1.59*	*0.57*	*2379*	*3003*
B	42875	0.98	0.0%	0.0%	15.0%	85.0%	4.15	*4.08*	*1.82*	*6513*	*7910*	1.51	*1.48*	*0.63*	*2251*	*2857*
C	93645	2.15	0.0%	0.0%	30.0%	70.0%	3.92	*8.43*	*1.68*	*13079*	*15592*	1.32	*2.85*	*0.54*	*4214*	*5305*
D	38951	0.89	0.0%	0.0%	100.0%	0.0%	2.87	*2.57*	*0.99*	*3213*	*3213*	0.47	*0.42*	*0.12*	*390*	*390*
E	160952	3.69	0.0%	0.0%	20.0%	80.0%	4.07	*15.04*	*1.77*	*23794*	*28730*	1.45	*5.34*	*0.60*	*8048*	*10190*
F	52262	1.20	0.0%	0.0%	20.0%	80.0%	4.07	*4.88*	*1.77*	*7726*	*9329*	1.45	*1.73*	*0.60*	*2613*	*3309*
G	70793	1.63	0.0%	10.0%	65.0%	25.0%	3.16	*5.14*	*1.20*	*7097*	*7775*	0.73	*1.19*	*0.26*	*1528*	*1822*
H	32394	0.74	0.0%	0.0%	50.0%	50.0%	3.62	*2.69*	*1.48*	*3995*	*4535*	1.08	*0.80*	*0.42*	*1134*	*2268*
J	161453	3.71	0.0%	75.0%	15.0%	10.0%	2.39	*8.86*	*0.85*	*11409*	*11948*	0.26	*0.97*	*0.10*	*1312*	*2442*
K	12228	0.28	0.0%	10.0%	85.0%	5.0%	2.86	*0.80*	*1.01*	*1026*	*1046*	0.49	*0.14*	*0.14*	*142*	*184*
TOTAL	**715629**	**16.43**	-	-	-	-	-	***57.08***	**-**	***85052***	***98717***	**-**	***16.52***	**-**	***24009***	***31770***
CURRENT OFFSITE BASINS																
L	11089	0.25	0.0%	0.0%	100.0%	0.0%	2.87	*0.73*	*0.99*	*915*	*915*	0.47	*0.12*	*0.12*	*111*	*111*
M	62016	1.42	0.0%	0.0%	10.0%	90.0%	4.22	*6.01*	*1.87*	*9674*	*11535*	1.57	*2.23*	*0.66*	*3411*	*7318*
N	30510	0.70	0.0%	0.0%	60.0%	40.0%	3.47	*2.43*	*1.38*	*3514*	*3920*	0.96	*0.67*	*0.36*	*915*	*1770*
TOTAL	**103614**	**2.38**	-	-	-	-	-	***9.17***	**-**	***14103***	***16370***	**-**	***3.02***	**-**	***4437***	***9198***

PHASE I DRAINAGE MANAGEMENT PLAN

I. INTRODUCTION

The purpose of this submittal is to present a drainage master plan for Phase 1 of Albuquerque Public School (APS) Truman Middle School. The site comprises approximately 18.8 acres, is located within zone atlas map M-9 and is bounded along the north by Benavidas Road SW, along the west by Snow Vista Boulevard. Westgate Heights is located to the east and the Westgate Community Center to the south of the school site. This drainage management plan will evaluate the existing drainage conditions, as well as Phase 1 improvements at the school. Phase 1 improvements include a new classroom building on the north side of the site, hardscape and a new basketball court. The existing and proposed hydrologic conditions were analyzed using the procedures in described in Section 22.2 of the Development Process Manual (DPM). The site is located within precipitation Zone 1 as shown on Figure A-1 in Section 22.2 of the DPM.

II. EXISTING HYDROLOGIC CONDITIONS

This site is partially developed with the main classroom / administration building, gym, portables, site parking and playground / field area. the site has minimal landscape treatment with the exception of the turf play field. This site has been divided into three basins. Land treatments were established for each basin based on Table A-4, Section 22.2 A.3 of the DPM. Basin A comprises the northern portion of the site adjacent to Benavides. This basin free discharges to Benavides with a peak flow rate of 10.4 cfs. Basin B consists of the majority of the school site. This basin drains to an existing retention pond located in the eastern portion of the site. The peak flow rate from this basin is 53.1 cfs and total runoff volume in the 100 year, 6 hour storm is 1.814 acre feet (77,349 cubic feet). The existing volume provided is 1.542 acre feet (assuming a maximum water surface elevation of 5114.00). Based on our analysis we have concluded that the existing retention pond does not have adequate capacity to retain the 100 year, 6 hour storm event. Basin C is a small area adjacent to Snow Vista Boulevard that free discharges to Snow Vista Boulevard. The peak flow rate from Basin C is 0.7 cfs. Peak discharge from the site is 11.1 cfs (assuming that the existing retention pond has adequate volume). A storm water lift station was constructed to drain the onsite retention pond. This lift station discharges to benavides via a 4" line. The lift station is a duplex pump station with a design flow rate of 215 gpm with a single pump operating. At that flow rate the retention pond would be drained in 38.9 hours. The information on the lift station was obtained from design plans for the Multipurpose Recreation Field at Truman Middle School. The plans were prepared by Jeff Mortensen & Associates and dated June 1, 1991. A site visit was conducted on March 30, 2010 and it was noted that the electric service for the lift station had been disconnected and the discharge line at Benavides could not be located. Rehabilitation of the list station will be required with the first classroom building which is considered Phase 1 of the future improvements on the campus. It was also noted that several of the existing inlets could not be found or were completely fixed with sediment.

IV. PROPOSED HYDROLOGIC CONDITIONS

The drainage plan is to convey site drainage via onsite private storm drain and surface drainage to the four onsite retention ponds. These ponds will be interconnected by a storm drain system. An outlet pipe will connect to the existing storm water lift station. The ponds will be drained by this lift station. The lift station will be rehabilitated with this phase of the school construction. The drainage scheme for Phase 1 is essentially the same as the current condition, with the exception that a portion of Basin A will be diverted to the retention pond system. A raised crosswalk will be used to divert storm water through a sidewalk culvert to Pond 1. The only basins which will free discharge to the public right of way will be Basin L (Noted as Basin C in the Existing DMP), Basin M and Basin N. The peak discharge from these basins is 0.7 cfs, 6.0 cfs and 2.4 cfs respectively. The peak discharge to the public right of way is approximately 9.1 cfs. The remainder of the drainage basins will drain the retention pond system via private onsite storm drain and surface drainage. The total volume required to retain the 100 year, 6 hour storm is 1.953 acre feet. The total volume provided is 2.068 acre feet. The storage volume noted above will provide an additional 5,000 cubic feet for sediment storage.

V. CONCLUSION

As the site exists today the peak discharge to the public right of way is 11.1 cfs. With the development of Phase 1 the peak discharge to the right of way will be 9.1 cfs or a net reduction of 2.0 cfs. The onsite retention ponds are sized to store the 100 year, 6 hour storm. An additional volume of 5,000 cubic feet has been provided to allow for sediment volume. With the rehabilitated lift station discharging 215 gpm through the 4" line to Benavides, these ponds will drain in 49.2 hours. The drainage management plan is capable of safely retaining the 100 year, 6 hour storm and meets the City of Albuquerque hydrology requirements.

LEGEND

PROPOSED DRAINAGE BASIN

LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- 5025 EXISTING INDEX CONTOUR
- 5021 EXISTING INTERMEDIATE CONTOUR
- 5024.25 EXISTING GROUND ELEVATION
- 24.75 PROPOSED GROUND ELEVATION
  FL=FLOW LINE
  TC=TOP OF CURB
  TS=TOP OF SIDEWALK
  TG=TOP OF GRATE
  FGH=FINISH GROUND HIGH SIDE
  FGL=FINISH GROUND LOW SIDE
- S=2.0% DIRECTION OF FLOW
- GRADE BREAK
- 5025 PROPOSED INDEX CONTOUR
- 5021 PROPOSED INTERMEDIATE CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS
- RD ROOF DRIAN

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JUL 19 2010
HYDROLOGY SECTION

fbt | architects
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PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

Bohannan Huston Inc
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

GLENNA S BROUGHTON
NEW MEXICO
14171
7-9-10
REGISTERED PROFESSIONAL ENGINEER

TRUMAN MIDDLE SCHOOL
Albuquerque Public Schools

JUNE 7, 2010

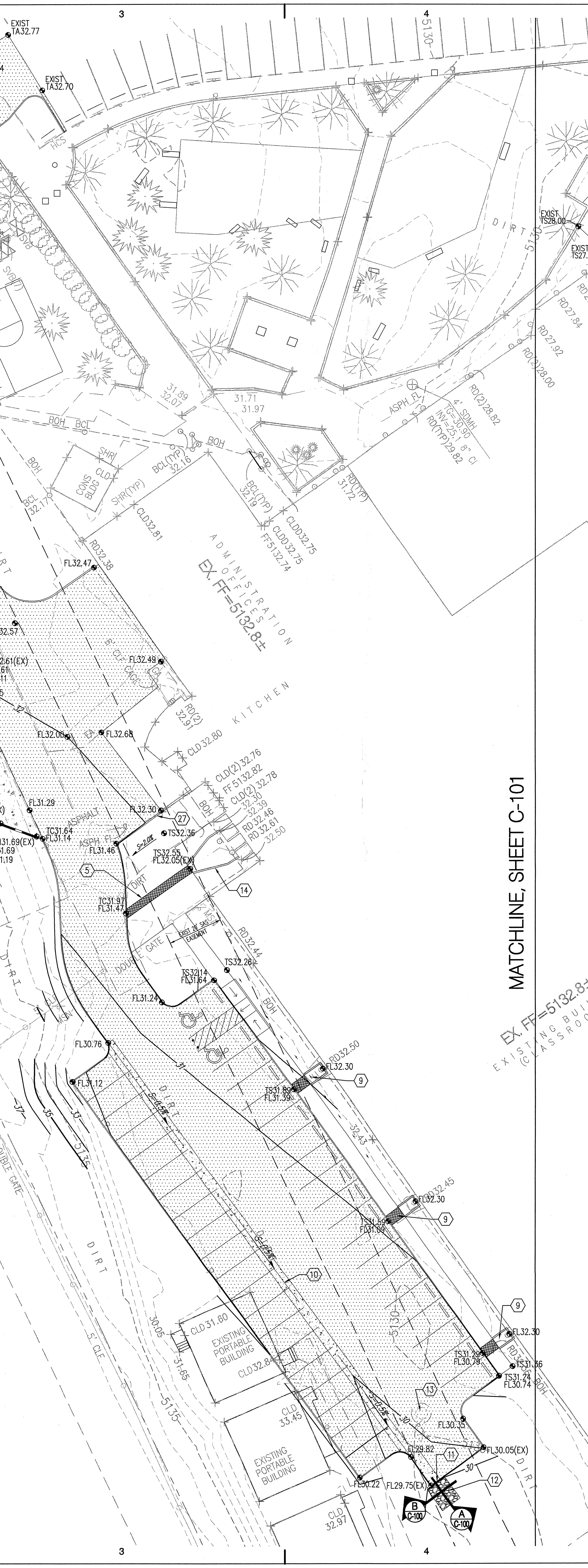
MARK	DATE	DESCRIPTION

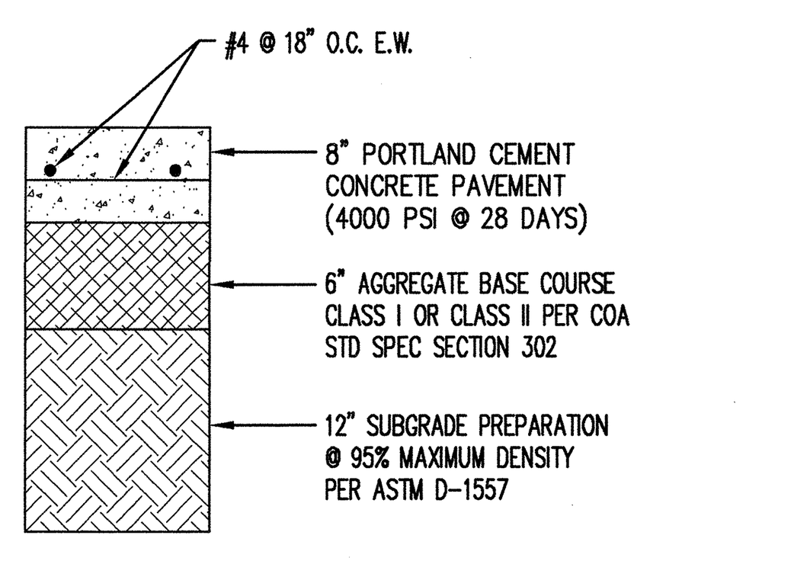
PROJECT NO:	20100353
CAD DWG FILE:	20100353DMP01.dwg
DRAWN BY:	BHW
CHECKED BY:	JLM

SHEET TITLE

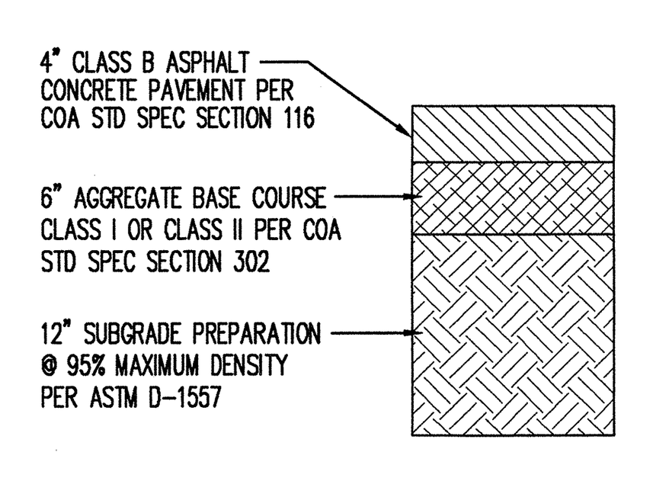
PHASE I DRAINAGE MANAGEMENT PLAN

C-003





CONCRETE PAVEMENT SECTION
NTS

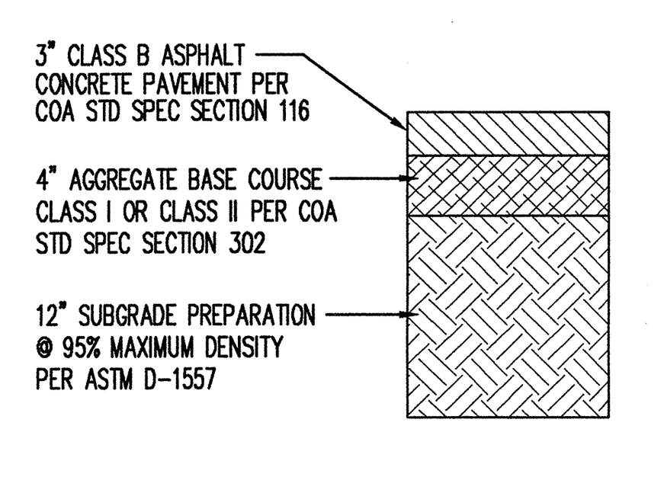


HEAVY DUTY PAVEMENT SECTION
NTS

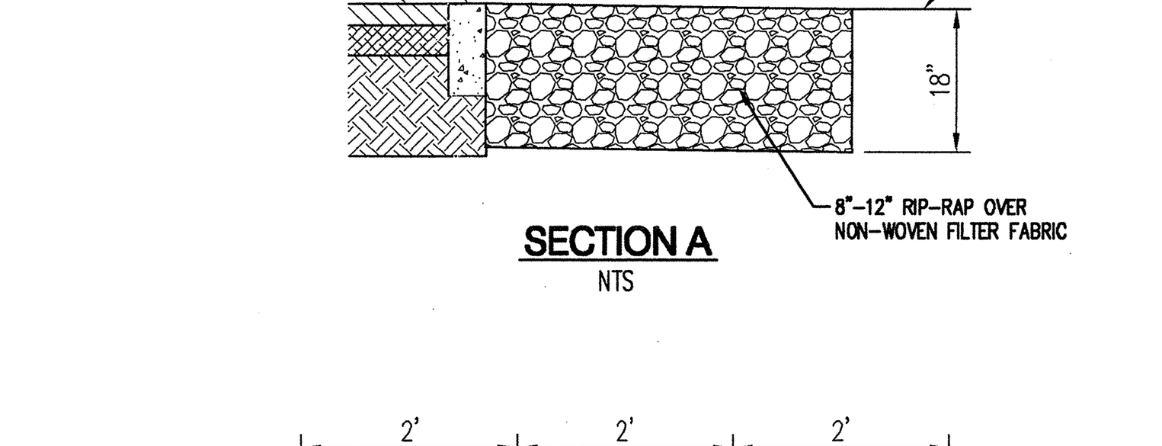
NOTE: SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION WORK.

NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

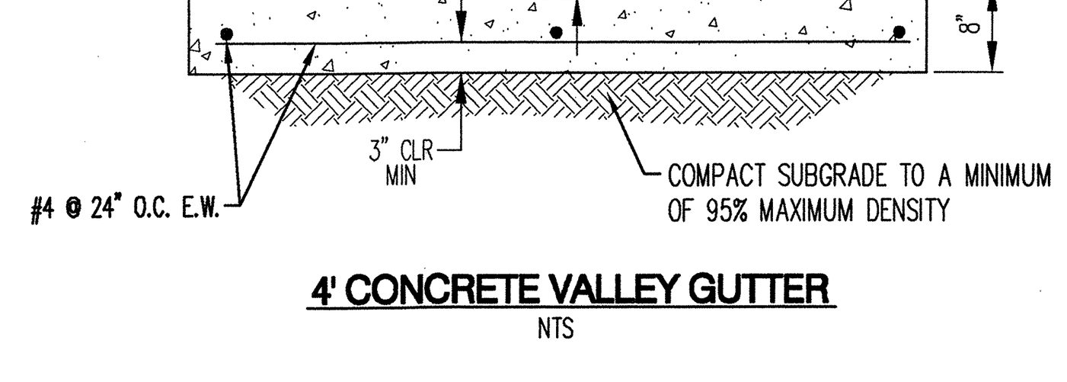


LIGHT DUTY PAVEMENT SECTION
NTS

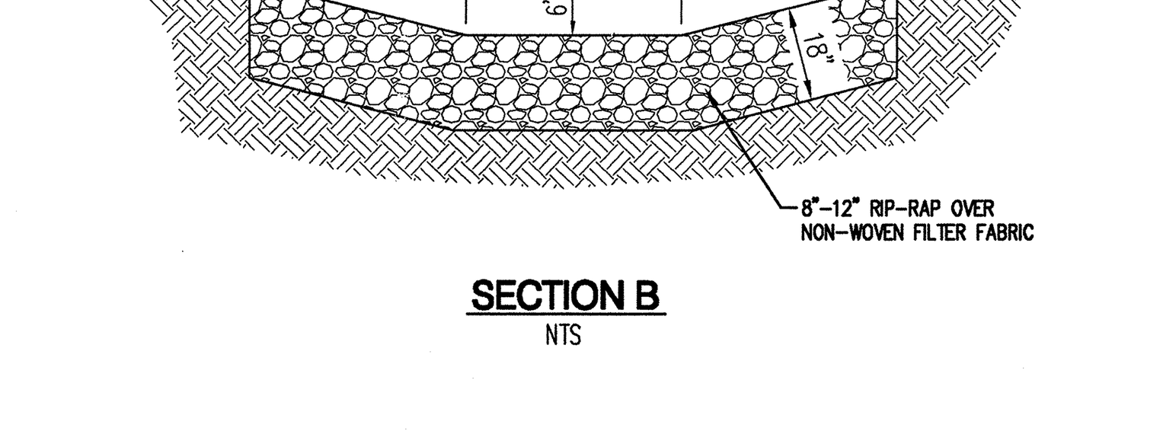


SECTION A
NTS

NOTE: CONCRETE FOR ALL VALLEY GUTTERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI IN 24 HOURS.



4' CONCRETE VALLEY GUTTER
NTS



SECTION B
NTS

A1 GRADING & DRAINAGE PLAN

1" = 20'

0 20 40

LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- 5025 EXISTING INDEX CONTOUR
- 5021 EXISTING INTERMEDIATE CONTOUR
- 5024.25 EXISTING GROUND ELEVATION
- 24.75 PROPOSED GROUND ELEVATION
  FL=FLOW LINE
  TC=TOP OF CURB
  TS=TOP OF SIDEWALK
  TG=TOP OF GRATE
  FGH=FINISH GROUND HIGH SIDE
  FGL=FINISH GROUND LOW SIDE
- S=2.0% DIRECTION OF FLOW
- GRADE BREAK
- 5025 PROPOSED INDEX CONTOUR
- 5021 PROPOSED INTERMEDIATE CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED RETAINING WALL
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS
- RD ROOF DRIAN
- LIGHT DUTY PAVEMENT SECTION, SEE DETAIL ON SHEET C-100
- HEAVY DUTY PAVEMENT SECTION, SEE DETAIL ON SHEET C-100
- PORTLAND CEMENT CONCRETE PAVEMENT SECTION, SEE DETAIL ON SHEET C-100

SHEET KEYNOTES

1. INSTALL STORM DRAIN (ADS-N12WT HDPE, OR APPROVED EQUAL), SIZE PER PLAN.
2. INSTALL NYLOPLAST (OR APPROVED EQUAL) DRAIN BASIN WITH 24" PEDESTRIAN RATED GRATE.
3. INSTALL STORM DRAIN INLET TYPE "D", PER COA STD DWG 2206; OR NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/ 2'X2' STEEL BAR H-25 RATED GRATE (OR APPROVED EQUAL).
4. CONSTRUCT 2' WIDE CURB OPENING. SEE DETAIL A5, SHEET C-102.
5. INSTALL 48" SIDEWALK CULVERT PER COA STD DWG 2236.
6. INSTALL RIPRAP BLANKET PER DETAIL B5, SHEET C-102.
7. INSTALL PRE-MANUFACTURED WATERTIGHT DRAINAGE FITTING, SEE PLAN FOR SIZES.
8. INSTALL HDPE END SECTION PER MANUFACTURES SPECIFICATIONS, SEE PLAN FOR SIZES.
9. REMOVE EXISTING CONCRETE SPLASH PAD & INSTALL 4' WIDE SIDEWALK CULVERT PER COA STD DWG 2236. OMIT CHECKERED STEEL PLATE BETWEEN BACK OF SIDEWALK AND BUILDING.
10. INSTALL 4' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-100.
11. CONSTRUCT 4' WIDE CURB OPENING.
12. CONSTRUCT RIPRAP EROSION CONTROL PAD PER SECTION A & B ON SHEET C-100.
13. ADJUST EXISTING SANITARY SEWER MANHOLE FRAME & COVER TO FINISHED GRADE.
14. INSTALL 6" HEADER CURB ADJACENT TO EXISTING CONCRETE VALLEY GUTTER.
15. BY OTHERS: REMOVE & REHAB EXISTING PUMPS. MATCH EXISTING CAPACITY, ETC. COORDINATE WITH ELECTRICAL FOR POWER.
16. BY OTHERS: LOCATE, CLEAN OUT, & PRESSURE TEST EXISTING 4" PVC DRAIN PIPE.
17. INSTALL NYLOPLAST INLINE DRAIN WITH 10" DOME GRATE & 6" STORM DRAIN. TOP OF GRATE ELEVATION REFERENCED IN GRADING PLAN REFERS TO GRATE OPENING AT BOTTOM OF DOME.
18. INSTALL 2' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-101.
19. PROVIDE 12" WIDE BY 8" HIGH OPENING AT BASE OF WALL. MATCH FLOWLINE OF CONCRETE VALLEY GUTTER & NEW SIDEWALK.
20. SAWCUT EXISTING CONCRETE DRIVEPAD.
21. PAVEMENT REPLACEMENT PER COA STD DWG 2465.
22. WIDEN EXISTING DRIVEPAD PER COA STD DWG 2425.
23. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
24. INSTALL 12" WIDE SIDEWALK CULVERT PER COA STD DWG 2236.
25. INSTALL SEDIMENT MEASUREMENT POLE, SEE DETAIL ON SHEET C-102.
26. CONNECT TO EXISTING LIFT STATION INLET PIPE. CONTRACTOR SHALL VERIFY LOCATION & INVERT AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
27. 5' TRANSITION FROM FULL HEIGHT CURB TO FLUSH CURB.
28. CONTRACTOR SHALL REMOVE EXISTING INLET AND CAP EXISTING STORM DRAIN LINE. INSTALL NEW 30" BEEHIVE GRATE & DRAIN BASIN (NYLOPLAST OR APPROVED EQUAL).
29. SAW CUT ASPHALT TO CLEAN EDGE & CONSTRUCT CONCRETE RUNDOWN PER COA STD DWG 2236 WITHOUT CHECKERED STEEL PLATE. SEE PLAN FOR DIMENSIONS.

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.

2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE AND TO ALSO INCLUDE ALL FUGITIVE DUST.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCES SHALL CONSTRUCTION PERSONNEL WALK OR DRIVE ON LAND OUTSIDE THE CONSTRUCTION AREA.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

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JEFFREY L. MULBERRY
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5-25-10
LICENSED PROFESSIONAL ENGINEER

TRUMAN MIDDLE SCHOOL
Albuquerque Public Schools

JUNE 7, 2010

MARK	DATE	DESCRIPTION

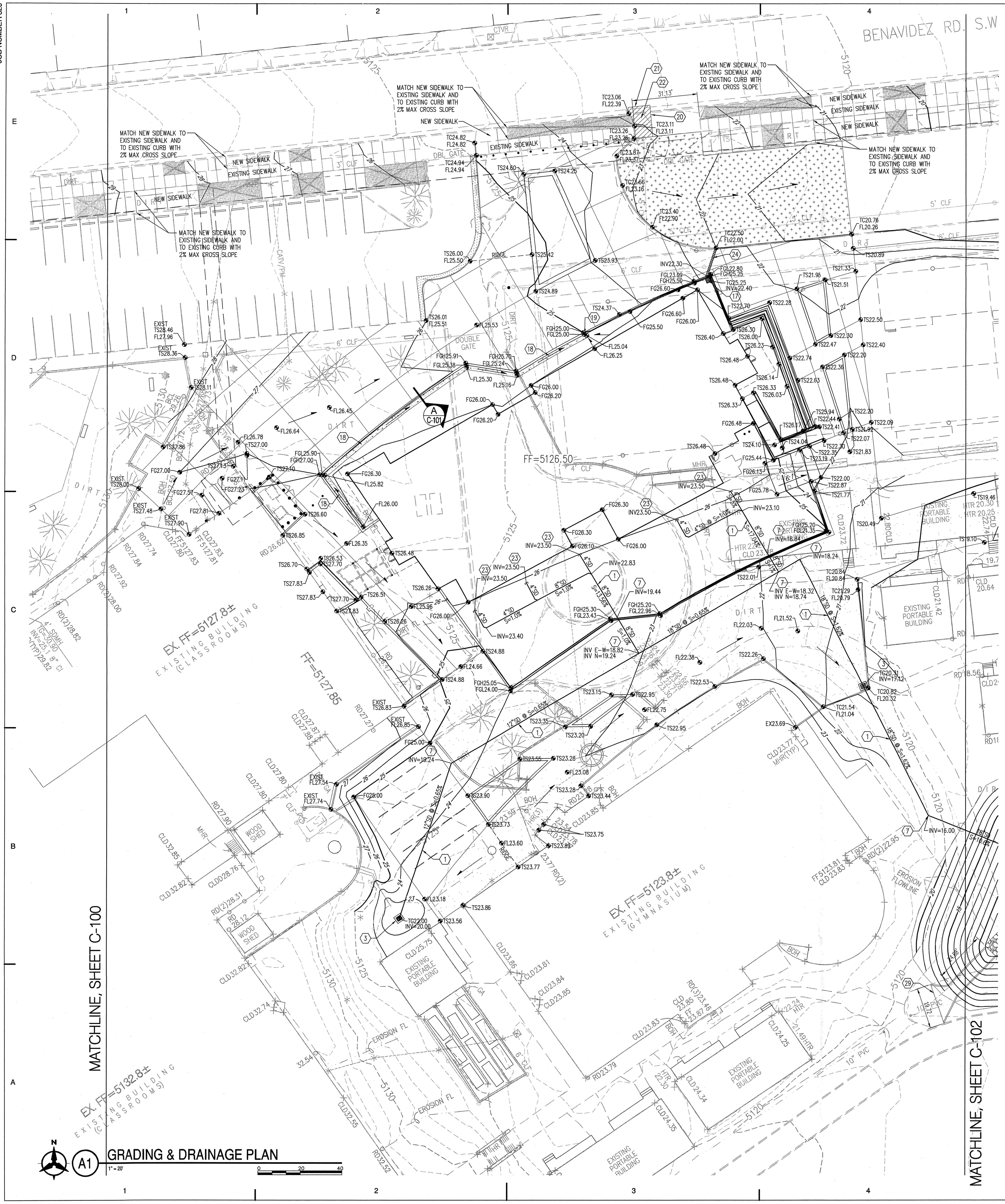
PROJECT NO:	20100353
CAD DWG FILE:	20100353GP01.dwg
DRAWN BY:	BHW
CHECKED BY:	JLM

SHEET TITLE

GRADING & DRAINAGE PLAN

C-100

JOB NUMBER 320

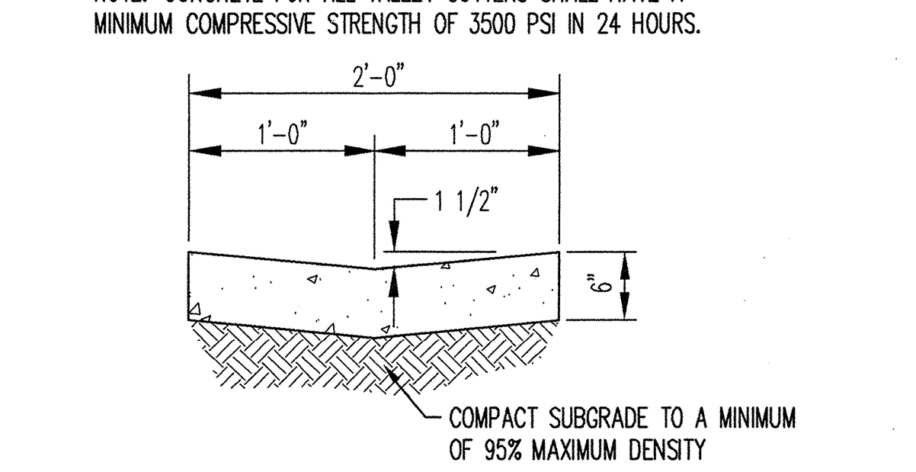


NOTE: SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION WORK.

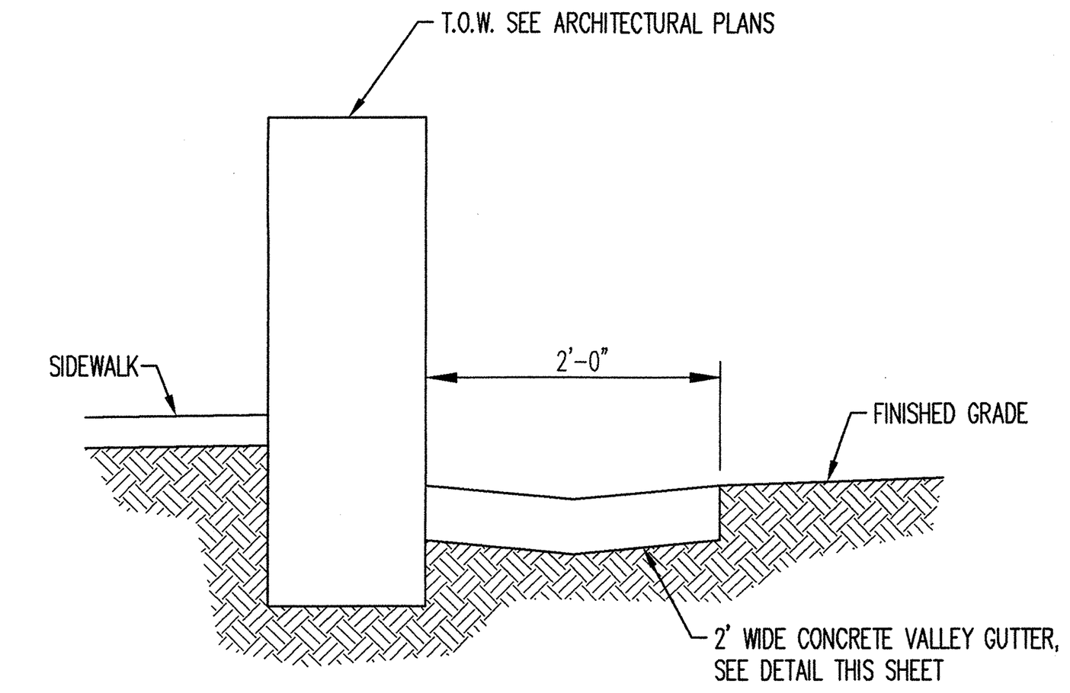
NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

NOTE: CONCRETE FOR ALL VALLEY GUTTERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI IN 24 HOURS.



2' CONCRETE VALLEY GUTTER
NTS



SECTION A
NTS

SHEET KEYNOTES

1. INSTALL STORM DRAIN (ADS-N12WT HDPE, OR APPROVED EQUAL), SIZE PER PLAN.
2. INSTALL NYLOPLAST (OR APPROVED EQUAL) DRAIN BASIN WITH 24" PEDESTRIAN RATED GRATE.
3. INSTALL STORM DRAIN INLET TYPE "D", PER COA STD DWG 2206; OR NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/ 2'X2' STEEL BAR H-25 RATED GRATE (OR APPROVED EQUAL).
4. CONSTRUCT 2' WIDE CURB OPENING. SEE DETAIL A5, SHEET C-102.
5. INSTALL 48" SIDEWALK CULVERT PER COA STD DWG 2236.
6. INSTALL RIPRAP BLANKET PER DETAIL B5, SHEET C-102.
7. INSTALL PRE-MANUFACTURED WATERTIGHT DRAINAGE FITTING, SEE PLAN FOR SIZES.
8. INSTALL HDPE END SECTION PER MANUFACTURES SPECIFICATIONS, SEE PLAN FOR SIZES.
9. REMOVE EXISTING CONCRETE SPLASH PAD & INSTALL 4' WIDE SIDEWALK CULVERT PER COA STD DWG 2236. OMIT CHECKERED STEEL PLATE BETWEEN BACK OF SIDEWALK AND BUILDING.
10. INSTALL 4' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-100.
11. CONSTRUCT 4' WIDE CURB OPENING.
12. CONSTRUCT RIPRAP EROSION CONTROL PAD PER SECTION A & B ON SHEET C-100.
13. ADJUST EXISTING SANITARY SEWER MANHOLE FRAME & COVER TO FINISHED GRADE.
14. INSTALL 6" HEADER CURB ADJACENT TO EXISTING CONCRETE VALLEY GUTTER.
15. BY OTHERS: REMOVE & REHAB EXISTING PUMPS. MATCH EXISTING CAPACITY, ETC. COORDINATE WITH ELECTRICAL FOR POWER.
16. BY OTHERS: LOCATE, CLEAN OUT, & PRESSURE TEST EXISTING 4" PVC DRAIN PIPE.
17. INSTALL NYLOPLAST INLINE DRAIN WITH 10" DOME GRATE & 6" STORM DRAIN. TOP OF GRATE ELEVATION REFERENCED IN GRADING PLAN REFERS TO GRATE OPENING AT BOTTOM OF DOME.
18. INSTALL 2' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-101.
19. PROVIDE 12" WIDE BY 8" HIGH OPENING AT BASE OF WALL. MATCH FLOWLINE OF CONCRETE VALLEY GUTTER & NEW SIDEWALK.
20. SAWCUT EXISTING CONCRETE DRIVEPAD.
21. PAVEMENT REPLACEMENT PER COA STD DWG 2465.
22. WIDEN EXISTING DRIVEPAD PER COA STD DWG 2425.
23. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
24. INSTALL 12" WIDE SIDEWALK CULVERT PER COA STD DWG 2236.
25. INSTALL SEDIMENT MEASUREMENT POLE, SEE DETAIL ON SHEET C-102.
26. CONNECT TO EXISTING LIFT STATION INLET PIPE. CONTRACTOR SHALL VERIFY LOCATION & INVERT AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
27. 5' TRANSITION FROM FULL HEIGHT CURB TO FLUSH CURB.
28. CONTRACTOR SHALL REMOVE EXISTING INLET AND CAP EXISTING STORM DRAIN LINE. INSTALL NEW 30" BEEHIVE GRATE & DRAIN BASIN (NYLOPLAST OR APPROVED EQUAL).
29. SAW CUT ASPHALT TO CLEAN EDGE & CONSTRUCT CONCRETE RUNDOWN PER COA STD DWG 2236 WITHOUT CHECKERED STEEL PLATE. SEE PLAN FOR DIMENSIONS.

LEGEND

— — —	PROPERTY LINE
- - - -	PROJECT LIMITS OF GRADING
5025	EXISTING INDEX CONTOUR
5021	EXISTING INTERMEDIATE CONTOUR
● 5024.25	EXISTING GROUND ELEVATION
● 24.75	PROPOSED GROUND ELEVATION FL=FLOW LINE TC=TOP OF CURB TS=TOP OF SIDEWALK TG=TOP OF GRATE FGH=FINISH GROUND HIGH SIDE FGL=FINISH GROUND LOW SIDE
S=2.0%	DIRECTION OF FLOW
	GRADE BREAK
5025	PROPOSED INDEX CONTOUR
5021	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED CURB & GUTTER
	PROPOSED STORM DRAIN LINE
⊙	PROPOSED STORM DRAIN MANHOLE
● ■ ▣	PROPOSED STORM DRAIN INLETS
RD	ROOF DRIAN
	LIGHT DUTY PAVEMENT SECTION, SEE DETAIL ON SHEET C-100
	HEAVY DUTY PAVEMENT SECTION, SEE DETAIL ON SHEET C-100
▨	REMOVE & DISPOSE OF EXISTING CURB, SIDEWALK, CONCRETE DRIVEPAD AND ASPHALT PAVEMENT. SEE SHEET AS102 FOR ONSITE DEMOLITION PLAN.

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TRUMAN MIDDLE SCHOOL
Albuquerque Public Schools

JUNE 7, 2010

MARK	DATE	DESCRIPTION

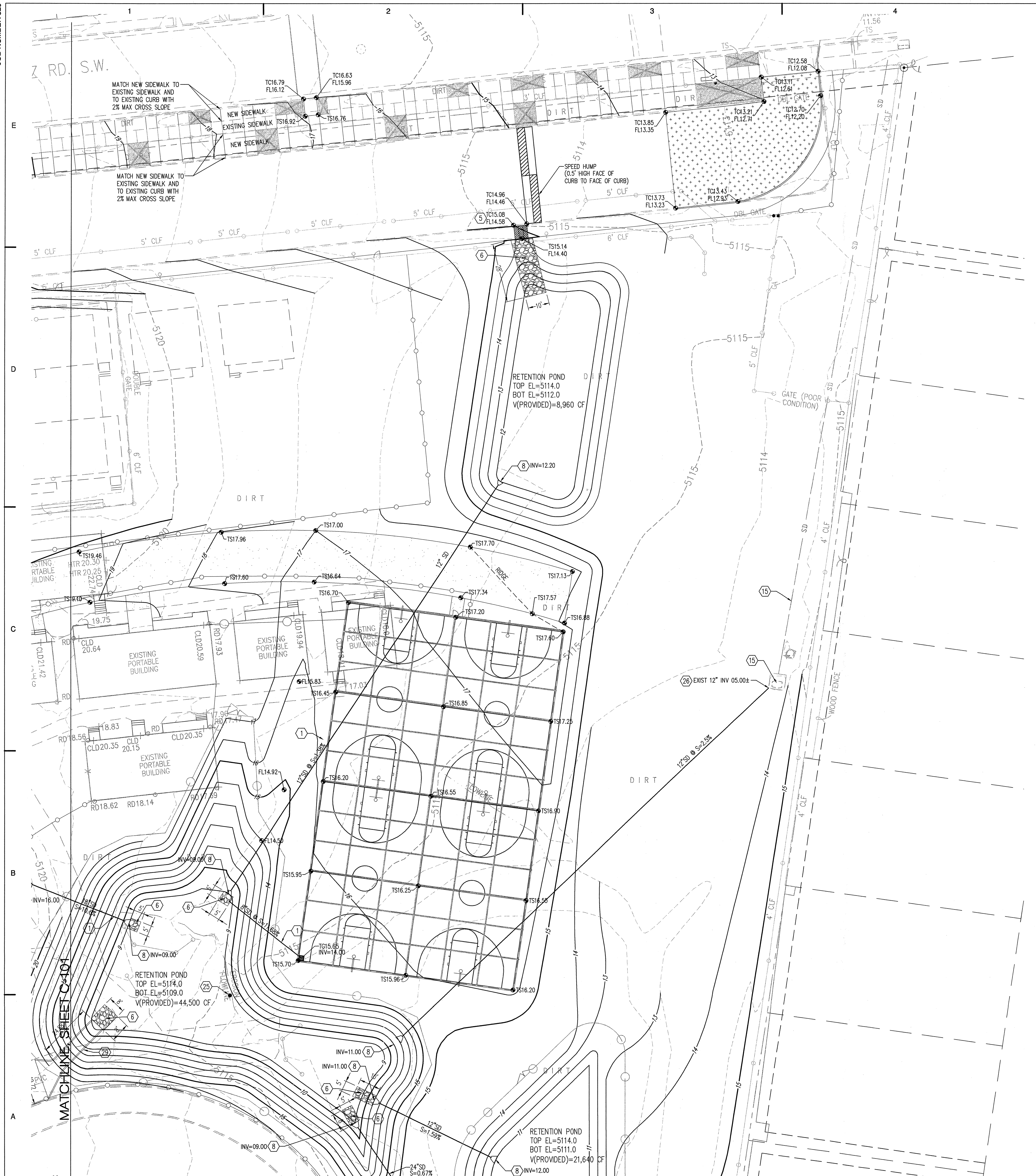
PROJECT NO:	20100353
CAD DWG FILE:	20100353GP02.dwg
DRAWN BY:	BHW
CHECKED BY:	JLM

SHEET TITLE

GRADING & DRAINAGE PLAN

C-101

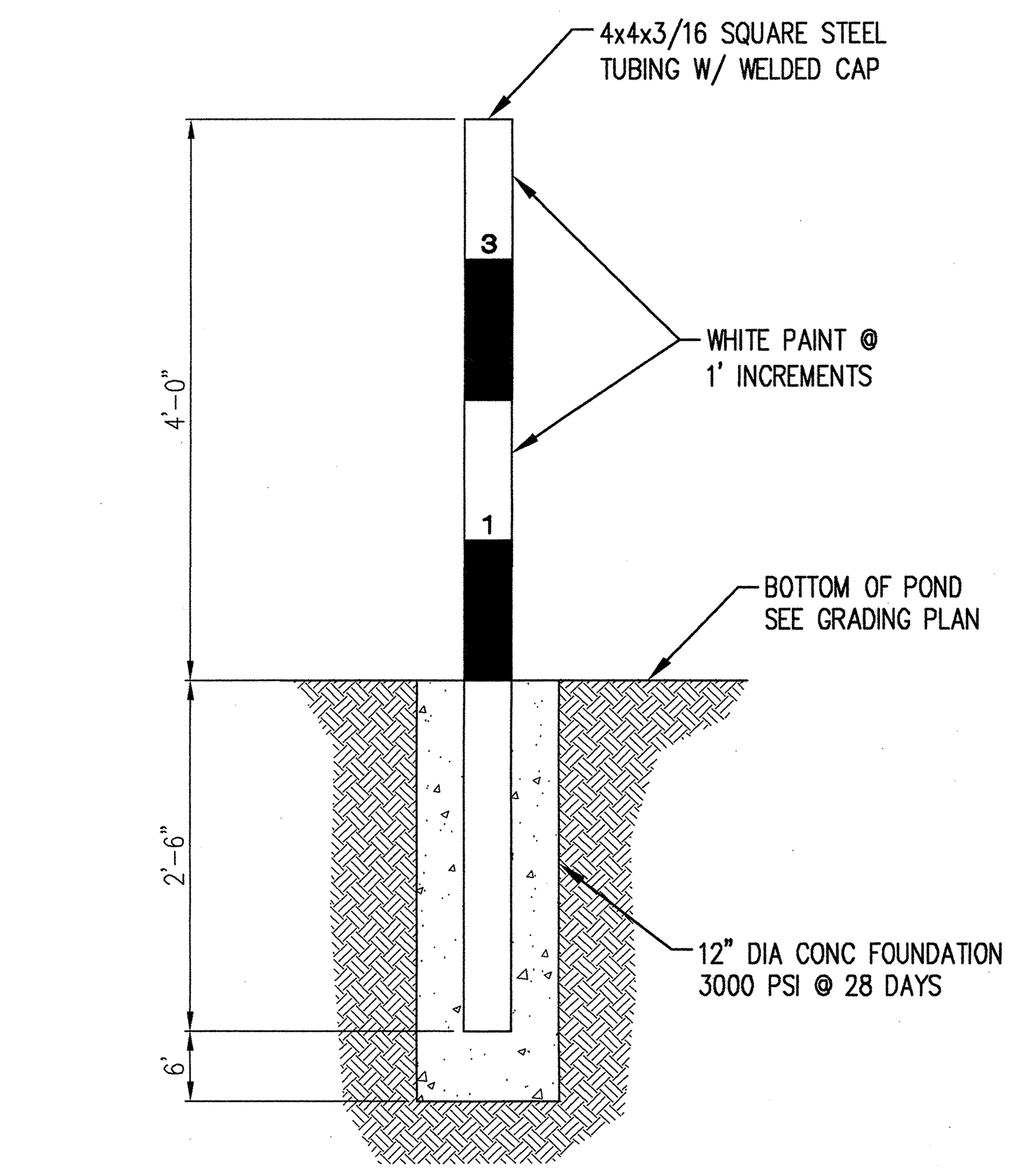
JOB NUMBER 320



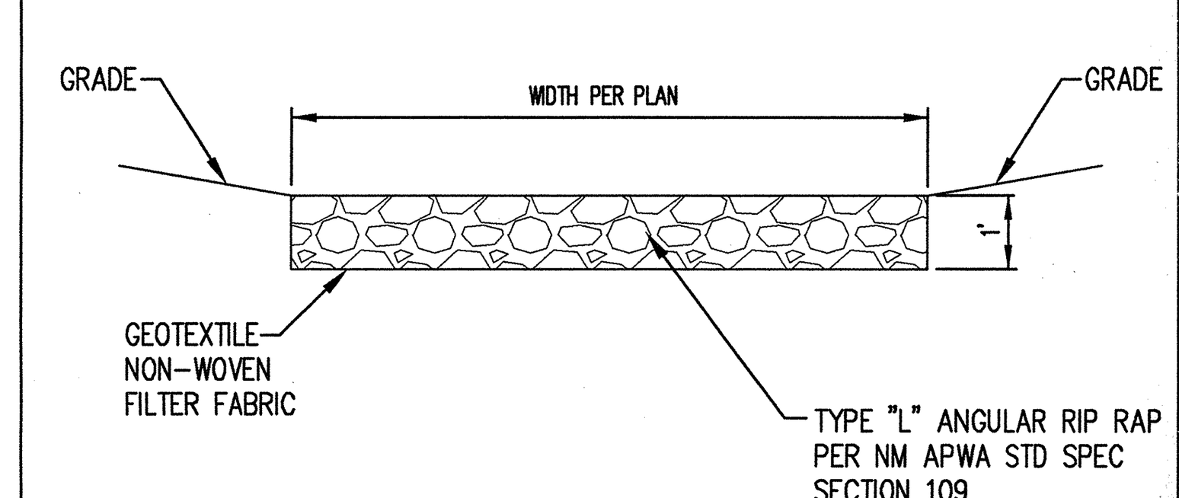
A1 GRADING & DRAINAGE PLAN
1" = 20'

NOTE: SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION WORK.

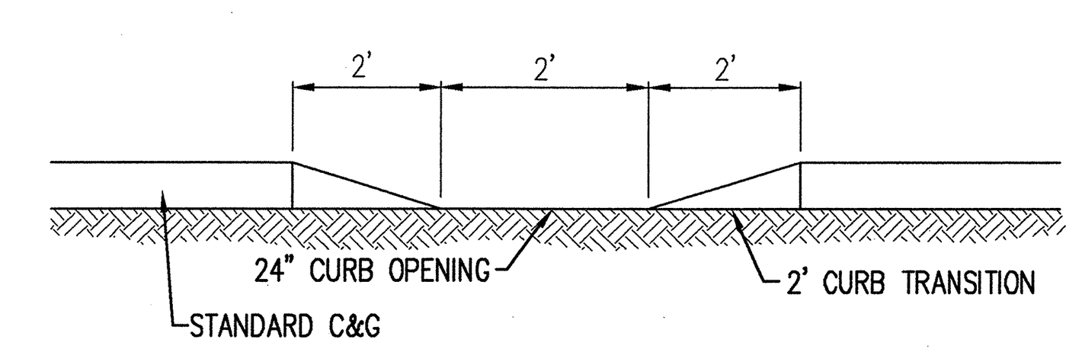
NOTE
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS



SEDIMENT MEASUREMENT POLE
NOT TO SCALE



B5 RIP RAP BLANKET
NOT TO SCALE



A5 TYPICAL CURB OPENING
NOT TO SCALE

SHEET KEYNOTES

1. INSTALL STORM DRAIN (ADS-N12WT HDPE, OR APPROVED EQUAL), SIZE PER PLAN.
2. INSTALL NYLOPLAST (OR APPROVED EQUAL) DRAIN BASIN WITH 24" PEDESTRIAN RATED GRATE.
3. INSTALL STORM DRAIN INLET TYPE "D", PER COA STD DWG 2206; OR NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/ 2'X2' STEEL BAR H-25 RATED GRATE (OR APPROVED EQUAL).
4. CONSTRUCT 2' WIDE CURB OPENING. SEE DETAIL A5, SHEET C-102.
5. INSTALL 48" SIDEWALK CULVERT PER COA STD DWG 2236.
6. INSTALL RIPRAP BLANKET PER DETAIL B5, SHEET C-102.
7. INSTALL PRE-MANUFACTURED WATERTIGHT DRAINAGE FITTING, SEE PLAN FOR SIZES.
8. INSTALL HDPE END SECTION PER MANUFACTURES SPECIFICATIONS, SEE PLAN FOR SIZES.
9. REMOVE EXISTING CONCRETE SPLASH PAD & INSTALL 4' WIDE SIDEWALK CULVERT PER COA STD DWG 2236. OMIT CHECKERED STEEL PLATE BETWEEN BACK OF SIDEWALK AND BUILDING.
10. INSTALL 4' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-100.
11. CONSTRUCT 4' WIDE CURB OPENING.
12. CONSTRUCT RIPRAP EROSION CONTROL PAD PER SECTION A & B ON SHEET C-100.
13. ADJUST EXISTING SANITARY SEWER MANHOLE FRAME & COVER TO FINISHED GRADE.
14. INSTALL 6" HEADER CURB ADJACENT TO EXISTING CONCRETE VALLEY GUTTER.
15. BY OTHERS: REMOVE & REHAB EXISTING PUMPS. MATCH EXISTING CAPACITY, ETC. COORDINATE WITH ELECTRICAL FOR POWER.
16. BY OTHERS: LOCATE, CLEAN OUT, & PRESSURE TEST EXISTING 4" PVC DRAIN PIPE.
17. INSTALL NYLOPLAST INLINE DRAIN WITH 10" DOME GRATE & 6" STORM DRAIN. TOP OF GRATE ELEVATION REFERENCED IN GRADING PLAN REFERS TO GRATE OPENING AT BOTTOM OF DOME.
18. INSTALL 2' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-101.
19. PROVIDE 12" WIDE BY 8" HIGH OPENING AT BASE OF WALL. MATCH FLOWLINE OF CONCRETE VALLEY GUTTER & NEW SIDEWALK.
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21. PAVEMENT REPLACEMENT PER COA STD DWG 2465.
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LEGEND

— — — —	PROPERTY LINE
- - - - - -	PROJECT LIMITS OF GRADING
— 5025 —	EXISTING INDEX CONTOUR
— 5021 —	EXISTING INTERMEDIATE CONTOUR
● 5024.25	EXISTING GROUND ELEVATION
● 24.75	PROPOSED GROUND ELEVATION FL=FLOW LINE TC=TOP OF CURB TS=TOP OF SIDEWALK TG=TOP OF GRATE FGH=FINISH GROUND HIGH SIDE FGL=FINISH GROUND LOW SIDE
S=2.0%	DIRECTION OF FLOW
	GRADE BREAK
— 5025 —	PROPOSED INDEX CONTOUR
— 5021 —	PROPOSED INTERMEDIATE CONTOUR
═	PROPOSED CURB & GUTTER
═	PROPOSED STORM DRAIN LINE
⦿	PROPOSED STORM DRAIN MANHOLE
● ■ ▣	PROPOSED STORM DRAIN INLETS
RD	ROOF DRIAN

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TRUMAN MIDDLE SCHOOL
Albuquerque Public Schools

JUNE 7, 2010

MARK	DATE	DESCRIPTION

PROJECT NO:	20100353
CAD DWG FILE:	20100353GP03.dwg
DRAWN BY:	BHW
CHECKED BY:	JLM

SHEET TITLE

GRADING & DRAINAGE PLAN

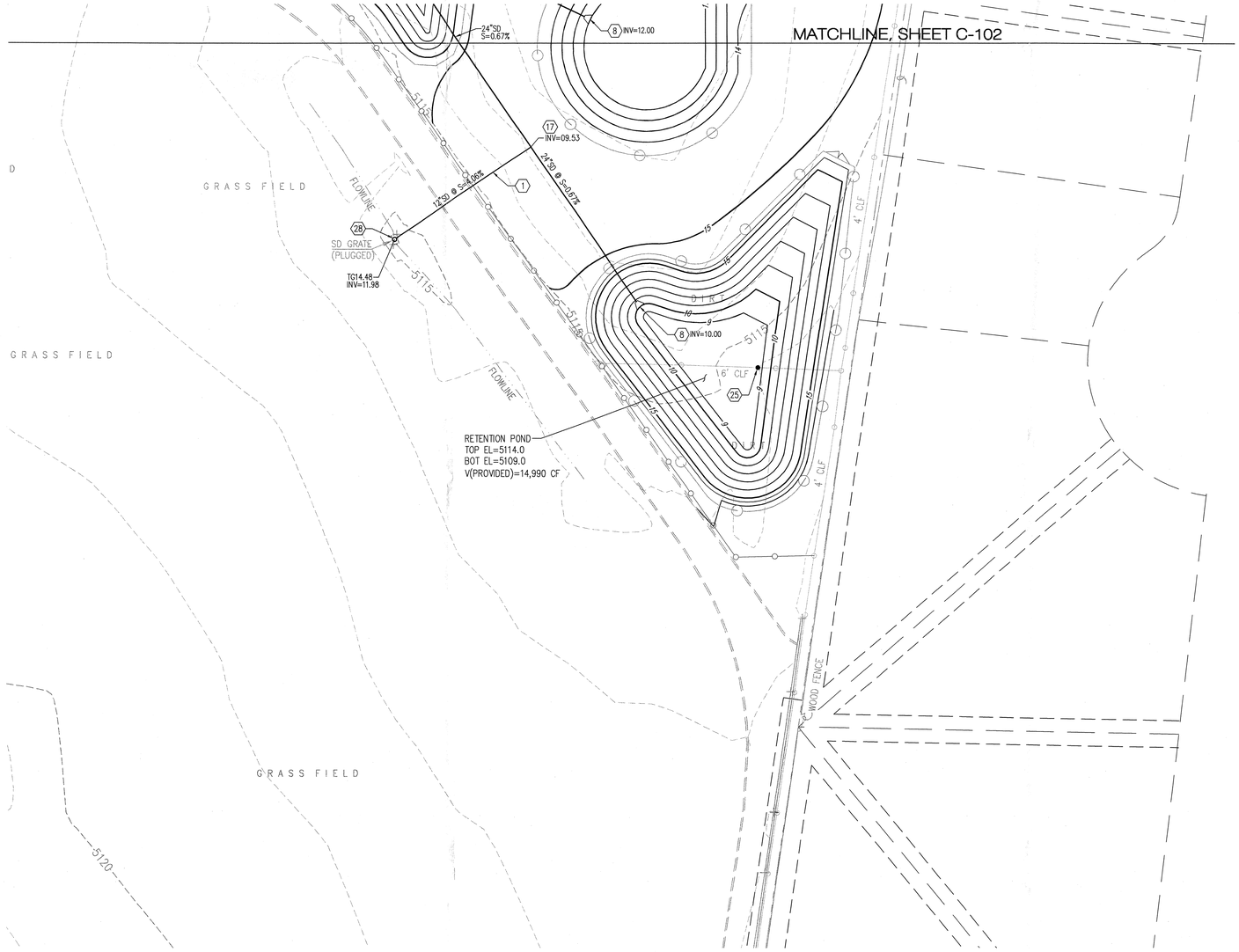
RECEIVED
JUL 19 2010
HYDROLOGY SECTION

C-102

JOB NUMBER 320

NOTE: SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION WORK.

NOTE
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS



N

A1 GRADING & DRAINAGE PLAN
1" = 20'
0 20 40

SHEET KEYNOTES

1. INSTALL STORM DRAIN (ADS-N12WT HDPE, OR APPROVED EQUAL), SIZE PER PLAN.
2. INSTALL NYLOPLAST (OR APPROVED EQUAL) DRAIN BASIN WITH 24" PEDESTRIAN RATED GRATE.
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10. INSTALL 4' WIDE CONCRETE VALLEY GUTTER PER DETAIL ON SHEET C-100.
11. CONSTRUCT 4' WIDE CURB OPENING.
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13. ADJUST EXISTING SANITARY SEWER MANHOLE FRAME & COVER TO FINISHED GRADE.
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LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- 5025 EXISTING INDEX CONTOUR
- 5021 EXISTING INTERMEDIATE CONTOUR
- 5024.25 EXISTING GROUND ELEVATION
- 24.75 PROPOSED GROUND ELEVATION
  FL=FLOW LINE
  TC=TOP OF CURB
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- S=2.0% DIRECTION OF FLOW
- GRADE BREAK
- 5025 PROPOSED INDEX CONTOUR
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- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- RD ROOF DRIAN

RECEIVED
JUL 19 2010
HYDROLOGY SECTION

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JEFFREY L. MULLENIX NEW MEXICO 16858 REGISTERED PROFESSIONAL ENGINEER 6.25.10

APS
TRUMAN MIDDLE SCHOOL
Albuquerque Public Schools

JUNE 7, 2010

MARK	DATE	DESCRIPTION

PROJECT NO:	20100353
CAD DWG FILE:	20100353GP04.dwg
DRAWN BY:	BHW
CHECKED BY:	JLM

SHEET TITLE

GRADING & DRAINAGE PLAN

C-103