HYDROLOGY

K12/D12

5 PLANS
1 of 2

K12/D12

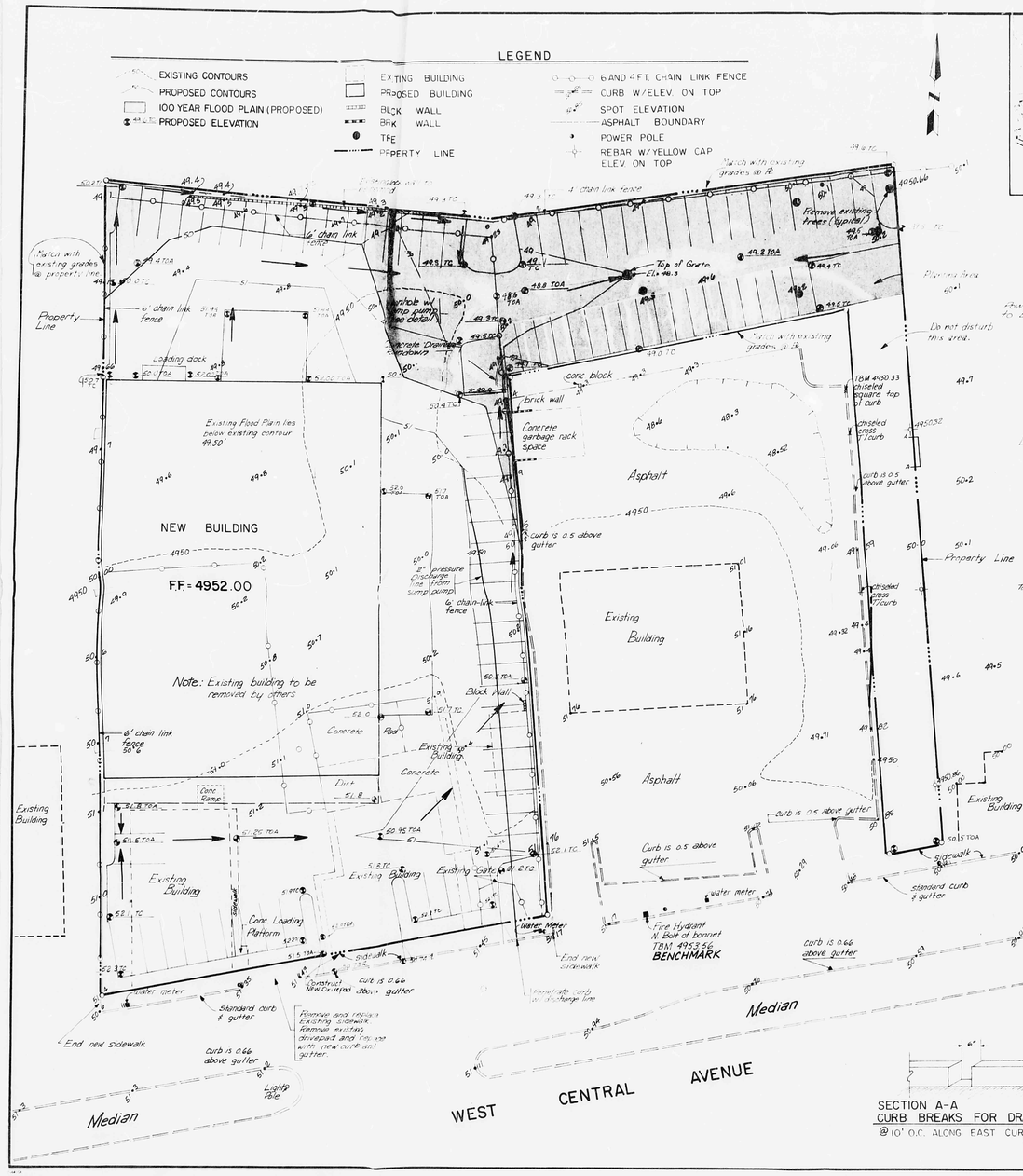
5 Plans

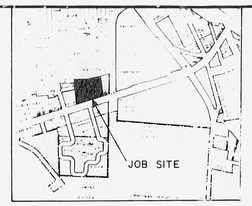
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

CITY OF ALBUQUERQUE

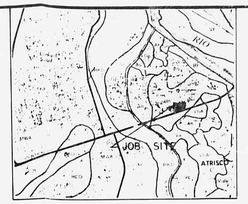
LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- 100 YEAR FLOOD PLAIN (PROPOSED)
- PROPOSED ELEVATION
- EXISTING BUILDING
- PROPOSED BUILDING
- BLOCK WALL
- BRK WALL
- TFE
- PROPERTY LINE
- 6 AND 4 FT. CHAIN LINK FENCE
- CURB W/ELEV. ON TOP
- SPOT ELEVATION
- ASPHALT BOUNDARY
- POWER POLE
- REBAR W/YELLOW CAP ELEV. ON TOP

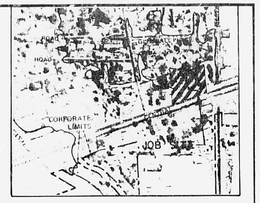




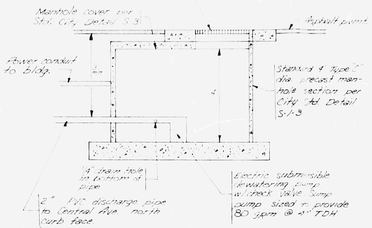
LOCATION MAP
ZONE ATLAS PAGE K-16-Z



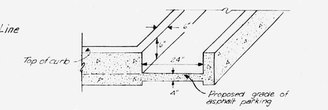
SOILS MAP
REFERENCE: U.S. BERNALILLO CNTY SOIL SURVEY



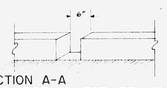
FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY



MANHOLE W/ SUMP PUMP & GRATED COVER
N.T.S.



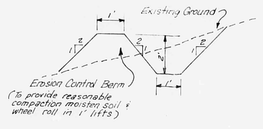
CONCRETE DRAINAGE RUNDOWN
N.T.S.



SECTION A-A
CURB BREAKS FOR DRAINAGE
@ 10' O.C. ALONG EAST CURB

EROSION CONTROL PLAN

A berm with the dimensions shown at right shall be built along the eastern, western, northern boundaries and maintained during all phases of construction until the drainage system presented hereon is functional.



Site Location

Existing Conditions

Proposed Conditions

The Floodplain Ordinance requires that any site containing floodplain area must still have at least the same floodplain area that above the 100-year elevation and floodplain storage volume displaced by development must provide compensating floodplain storage. In this case, the floodplain area is not affected but has been set at elevation 4951. Ponding necessary for disposition of the water has been provided in the parking area. The ponding volume has been calculated using the Modified Puls Method. Ponding volume is increased by the impervious area of the site. Ponding must provide additional storage equal to 0.42 cubic feet/square foot of impervious surface (under section 8-9-3) or 15,408 cubic feet. Ponding volume provided equals 15,900 cubic feet.

The ponding volumes will be discharged to Central Avenue. Discharge will be limited to a rate which releases the ponded volume within 24 hours. This rate approximates 80 GPM (0.17 CFS) and will be accomplished by using a manhole-sump pump system centered in the ponding area. A discharge line from the manhole to the curb face on Central Avenue will empty the ponding area.

CALCULATIONS (Rational Method)

Undeveloped Runoff

Area = 1.47 ac. (site)
% Impervious = 95, from C = 0.57 (DPM Plate 22.2 D.2)
Q 100, Rate = 4.19 (100-year storm)
Rainfall Intensity = 4.50 in/hr.
Runoff, Q = CIA = 0.57 (4.50) 1.47 = 3.53 cfs
Volume = 2.5/12 (0.57) 1.47 = 0.10 ac. ft. = 4,483 cubic feet

Developed Runoff

Area = 1.47 acres (includes offsite)
% Impervious = 95%, from C = 0.85
Runoff, Q = (0.85) (4.50) 1.47 = 5.53 cfs
Volume = 2.5/12 (0.85) 1.47 = 0.15 ac. ft. = 19400 cubic feet

Existing Onsite Flood Storage

3500 cubic feet (elevation 3500' to ground)

Additional Storage Required

4483 cubic feet (developed runoff volume minus undeveloped, due to greater impervious area at a developed site)

Pumping Rate

Total Storage = 15,900 cubic feet
Storage/24-hr. Discharge = 0.17 cfs (76 GPM)

RECEIVED
JAN 10 1985
HYDROLOGY SECTION

APPROVED FOR ROUGH GRADING

HYDROLOGY	DATE

F-6A-2-XXX

No.	Date	Revision	By
1	1-7-85	Rough Grading & Site Plan Grading Plan	

PEP BOYS at CENTRAL AVE.

DRAINAGE PLAN

Bob Bennett 1-7-85

Job No. 42582	Sheet 1 of 1
Drawn By S.V.R	Date 11/84
Checked By J.T.	Scale 1" = 20'

THIS PLAN CONTAINS COLOR. DO NOT MICROFILM OR COPY.

CITY OF ALBUQUERQUE
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D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- 100 YEAR FLOOD PLAIN
- PROPOSED ELEVATION
- EXISTING BUILDING
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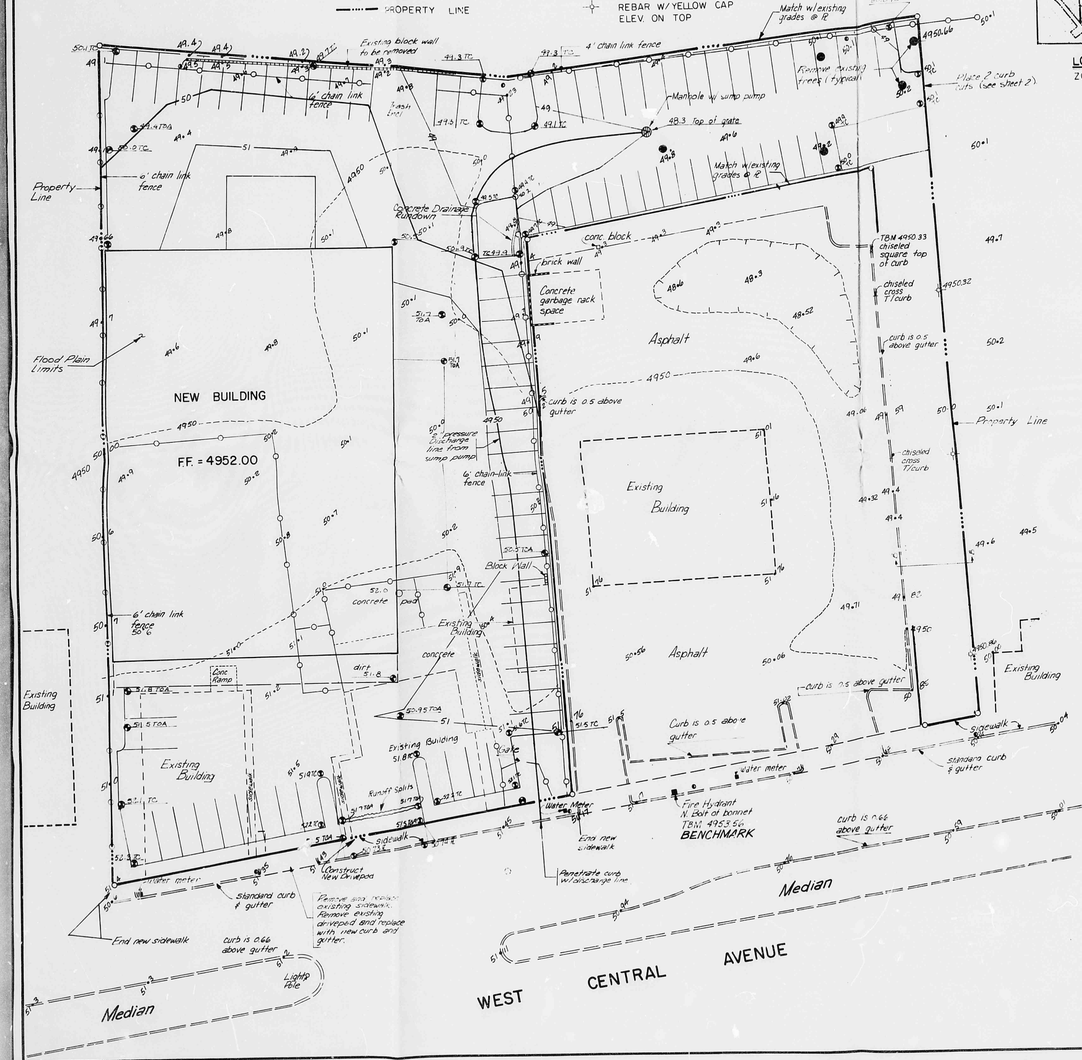
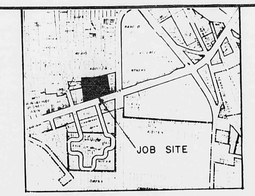
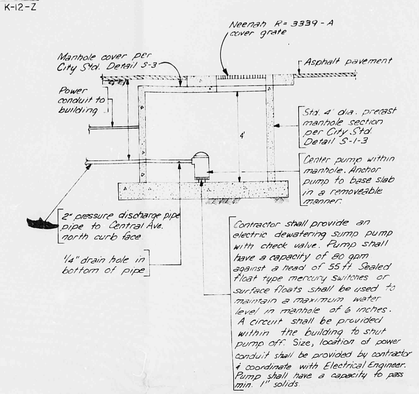


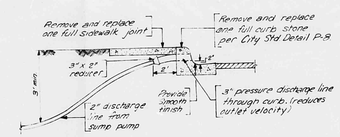


LOCATION MAP
ZONE ATLAS PAGE K-12-Z



Contractor shall provide an electric dewatering sump pump with check valve. Pump shall have a capacity of 80 gpm against a head of 55 ft. Sealed float type mercury switches or surface floats shall be used to maintain a maximum water level in manhole of 6 inches. A circuit shall be provided within the building to shut pump off. Size, location of power conduit shall be provided by contractor & coordinate with Electrical Engineer. Pump shall have a capacity to pass min. 1" solids.

MANHOLE WITH SUMP PUMP AND GRATED COVER
N.T.S.



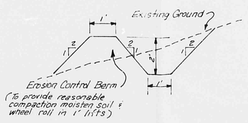
Note: This detail is informational only. Actual design of this curb penetration is shown on the attached Special Order 19, "Drainage Facilities in Public R.O.W." This detail is representative of that detail.

CURB PENETRATION AT CENTRAL AVE.
N.T.S.

RECEIVED JAN 12 1985 HYDROLOGY SECTION

EROSION CONTROL PLAN

A berm with the dimensions shown at right shall be built along the eastern, western & northern boundaries and maintained during all phases of construction until the drainage system presented hereon is functional.



Date	Revision	By
11/84	Revised Site Plan & Grading Plan	
1/84	Issued for Construction	JT

APPROVED FOR ROUGH GRADING

HYDROLOGY _____ DATE

PEP BOYS at CENTRAL AVE.

Project No.

GRADING PLAN

Seal

Hydrologist 1-9-85

Job No. 42582	Sheet 1 Of 2		
Drawn By: S.V.R.	Date: 11/84		
Checked By: J.T.	Scale 1" = 20'		

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

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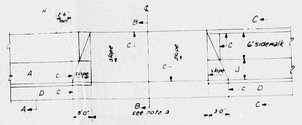
CITY OF ALBUQUERQUE

DRIVEPAD DETAILS

Drivepads should cross the sidewalk on the sidewalk grade line without depression of the sidewalks. However, if a drivepad gradient in excess of 11% would be required to avoid depression of the sidewalk, the sidewalk shall be transitioned to match the drivepad within 6' and the drivepad gradient shall be maintained.



Plan
N.T.S.

Elevation
N.T.S.

Section B-B
N.T.S.

Section C-C
N.T.S.

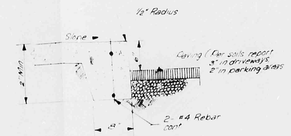
Notes:

1. 1/2" expansion joint where sidewalk or drivepad abuts buildings, fences, walls or other immovable objects.
2. All drivepads shall be constructed from the back of curb to property line.
3. Drivepads wider than 18' (nominal) to have 1/2" expansion joint at midpoint. Drivepads wider than 36' to have 1/2" expansion joints 18 max. between joints equally spaced.
4. Subgrade under drivepads shall be compacted to 90% max. density as determined by A.S.T.M. D-1557 to a depth of 6".

Construction Notes:

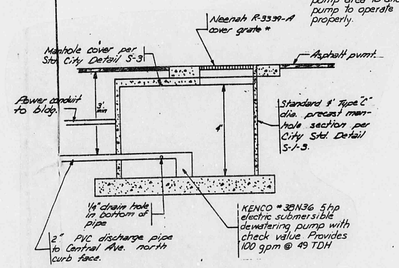
A. Dirt area
B. Offset sidewalk area
C. 1/2" expansion joint, adjust to field conditions on replacement work.
D. Curb and gutter
E. Slope to be adjusted to provide uniform transition between sidewalk and drivepad
F. Top of drivepad
G. Top of curb
H. Property line
J. variable
K. Slope 1/4" per ft. vary near drivepads to match drivepad slope
L. 0.33' above top of curb at property line typical. Deviations must be approved by city engineer prior to construction.

CURB BREAKS FOR DRAINAGE



CURB DETAIL (ON SITE)
NOT TO SCALE

* Note! Leaf & debris accumulation has proven to be a seasonal problem. It is responsibility of owner to clean debris periodically. From sump pump area to allow pump to operate properly.



EXISTING MANHOLE W/ SUMP PUMP & GRATED COVER
N.T.S.

GRADING NOTES

1. NO FROZEN MATERIALS SHALL BE PLACED IN FILL.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE "PUBLIC WORKS CONTRACT 84-3 AND THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-1979 EDITION.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234 FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. PRIOR TO GRADING, ALL VEGETATION, DEBRIS AND NEAR SURFACE ORGANICALLY CONTAMINATED SOIL SHALL BE STRIPPED TO A 6" DEPTH FROM ALL AREAS TO BE GRADED. VEGETATION AND DEBRIS SHALL BE DISPOSED OF OFF-SITE. TOPSOIL STRIPPINGS SHALL BE DISPOSED OF OFF-SITE OR STOCKPILED FOR USE IN PLANTERS AND NON-STRUCTURAL FILLS.
6. ALL ONSITE EXCAVATED MATERIAL PLACED IN FILL SHALL MEET THE REQUIREMENT OF THE SOILS REPORT OR THE FILL SHALL BE OBTAINED FROM AN APPROVED OFFSITE BORROW AREA.
7. SUBGRADE TOLERANCE OF ALL BUILDING PADS, PARKING AREAS, ROADWAYS, DRAINAGE IMPROVEMENTS, ETC. SHALL BE ± 0.05 FEET.
8. FINISHED TOP OF ASPHALT TOLERANCE FOR ALL AREAS WITH SLOPES LESS THAN 1% IS ± .02 FEET. FINISHED TOP OF ASPHALT TOLERANCE FOR ALL AREAS WITH SLOPES GREATER THAN 1% IS ± .10 FEET.
9. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
10. GRADING AND EARTHWORK OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL CURRENT CITY, COUNTY, STATE AND FEDERAL DUST CONTROL REGULATIONS.
11. THE EXPOSED CUT GROUND OR SUBGRADE UNDER PAVED AREAS SHALL BE SCARIFIED TO A MIN. 8" DEPTH, MOISTENED THOROUGHLY TO ± 2% MOISTURE CONTENT, AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM-1557).
12. BACKFILL AND ANY SOIL DISTURBED AROUND THE FOUNDATION WALLS SHOULD BE MOISTENED AND COMPACTED TO 90% OF MAXIMUM DENSITY PRIOR TO PLACING EXTERIOR SLABS OR SIDEWALKS.
13. DO NOT PUDDLE OR JET BACKFILL.
14. SITE FILL SHALL BE BROUGHT TO OPTIMUM MOISTURE CONTENT (± 2%) AND COMPACTED IN 8" LOOSE LIFTS TO A MINIMUM 95% MODIFIED PROCTOR DENSITY UNDER FOUNDATIONS AND TO MINIMUM 90% MODIFIED PROCTOR UNDER BLDG. PADS AND PAVED AREAS.
15. THE CONTRACTOR MUST OBTAIN A SOILS REPORT FROM ATL ENGINEERING SERVICES, REF. LAB NO. 2-05735-R4, TELEPHONE 505/268-4537, FOR ADDITIONAL GRADING INFORMATION AND REQUIREMENTS.
16. CONTRACTOR SHALL PROVIDE EQUIPMENT TO REMOVE EXCESSIVE SURFACE WATER WHICH MAY ACCUMULATE DURING CONSTRUCTION. IF EARTHWORK IS INTERRUPTED BY SURFACE WATER ACCUMULATION, FILL OPERATIONS SHALL NOT RESUME UNTIL APPROVED BY SOILS ENGINEER.

RECEIVED
APR 6 1987
HYDROLOGY SECTION

APPROVED FOR ROUGH GRADING

ENGINEER DATE

No.	Date	Revision
1	4/6/87	ADDED SUMP PUMP DETAIL

Project No.

Seal

3-17-87

PEP BOYS AT CENTRAL

GRADING PLAN FOR ADDITIONAL PARKING

DETAILS

Job No. 71521		Sheet 2 Of 2	
Drawn By S.V.R.		Date 3/87	
Checked By J.R.T.		Scale NONE	

CITY OF ALBUQUERQUE
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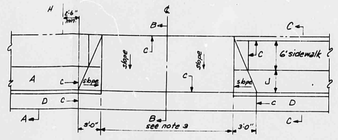
CITY OF ALBUQUERQUE

HYDROLOGY K12/D12 5 PLANS

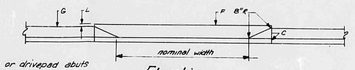
2 of 2

DRIVEPAD DETAILS

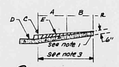
Drivepads should cross the sidewalk on the sidewalk grade line without depression of the sidewalks. However, if a drivepad gradient in excess of 11% would be required to avoid depression of the sidewalk, the sidewalk shall be transitioned to match the drivepad within 6' and the drivepad gradient shall be maintained.



Plan
N.T.S.



Elevation
N.T.S.



Section B-B
N.T.S.

Section C-C
N.T.S.

Notes:

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4. Subgrade under drivepads shall be compacted to 90% max. density as determined by A.S.T.M. D-1557 to a depth of 6".

Construction Notes:

A. Dirt area.
B. Offset sidewalk area.
C. 1/2" expansion joint, adjust to field conditions on replacement work.
D. Curb and gutter.
E. Slope to be adjusted to provide uniform transition between sidewalk and drivepad.
F. Top of drivepad.
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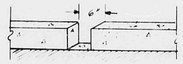
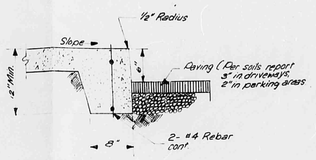
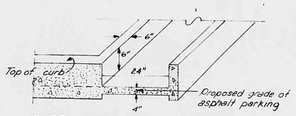


CURB BREAKS FOR DRAINAGE
@ 5' OC ALONG EAST CURB N.T.S.



CURB DETAIL (ONSITE)
NOT TO SCALE



CURB CUT FOR DRAINAGE
N.T.S.

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5. PRIOR TO GRADING, ALL VEGETATION, DEBRIS AND NEAR SURFACE ORGANICALLY CONTAMINATED SOIL SHALL BE STRIPPED TO A 6" DEPTH FROM ALL AREAS TO BE GRADED. VEGETATION AND DEBRIS SHALL BE DISPOSED OF OFF-SITE. TOPSOIL STRIPPINGS SHALL BE DISPOSED OF OFF-SITE OR STOCKPILED FOR USE IN PLANTERS AND NON-STRUCTURAL FILLS.
6. ALL ONSITE EXCAVATED MATERIAL PLACED IN FILL SHALL MEET THE REQUIREMENT OF THE SOILS REPORT OR THE FILL SHALL BE OBTAINED FROM AN APPROVED OFFSITE BORROW AREA.
7. FINISHED PAD ELEVATIONS ARE BELOW FINISH FLOOR ELEVATIONS. BUILDING PADS SHALL BE COMPOSED ENTIRELY OF COMPACTED, ENGINEERED FILL BROUGHT UP FROM UNDERLYING NATURALLY DEPOSITED SANDS.
8. DURING ROUGH GRADING OF THE SITE, ALL BUILDING PADS SHALL BE GRADED TO THREE FEET BEYOND SPECIFIED HORIZONTAL DIMENSIONS.
9. SUBGRADE TOLERANCE OF ALL BUILDING PADS, PARKING AREAS, ROADWAYS, DRAINAGE IMPROVEMENTS, ETC. SHALL BE ± 0.05 FEET.
10. FINISHED TOP OF ASPHALT TOLERANCE FOR ALL AREAS WITH SLOPES LESS THAN 1% IS + .02 FEET FINISHED TOP OF ASPHALT TOLERANCE FOR ALL AREAS WITH SLOPES GREATER THAN 1% IS ± .10 FEET.
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14. BACKFILL AND ANY SOIL DISTURBED AROUND THE FOUNDATION WALLS SHOULD BE MOISTENED AND COMPACTED TO 90% OF MAXIMUM DENSITY PRIOR TO PLACING EXTERIOR SLABS OR SIDEWALKS.
15. DO NOT PUDDLE OR JET BACKFILL.
16. SITE FILL SHALL BE BROUGHT TO OPTIMUM MOISTURE CONTENT (+ 2%) AND COMPACTED IN 8" LOOSE LIFTS TO A MINIMUM 95% MODIFIED PROCTOR DENSITY UNDER FOUNDATIONS AND TO MINIMUM 90% MODIFIED PROCTOR UNDER BLDG. PADS AND PAVED AREAS.
17. THE CONTRACTOR MUST OBTAIN A SOILS REPORT FROM ATL ENGINEERING SERVICES, REF. LAB NO. 2-05735-84, TELEPHONE 505/268-4537, FOR ADDITIONAL GRADING INFORMATION AND REQUIREMENTS.
18. CONTRACTOR SHALL PROVIDE EQUIPMENT TO REMOVE EXCESSIVE SURFACE WATER WHICH MAY ACCUMULATE DURING CONSTRUCTION. IF EARTHWORK IS INTERRUPTED BY SURFACE WATER ACCUMULATION, FILL OPERATIONS SHALL NOT RESUME UNTIL APPROVED BY SOILS ENGINEER.

RECEIVED
JAN 12 1985
HYDROLOGY SECTION

APPROVED FOR ROUGH GRADING

ENGINEER DATE

Date	Revision	By
1/11/85	Revised Site Plan/Grading Plan	JT
1/18/85	Issued For Construction	JT

PEP BOYS AT CENTRAL

Project No.

Seal

GRADING PLAN

DETAILS

Job No. 42587	Sheet 2 Of 2
Drawn By S.V.R.	Date 11/15/84
Checked By J.R.T.	Scale NONE

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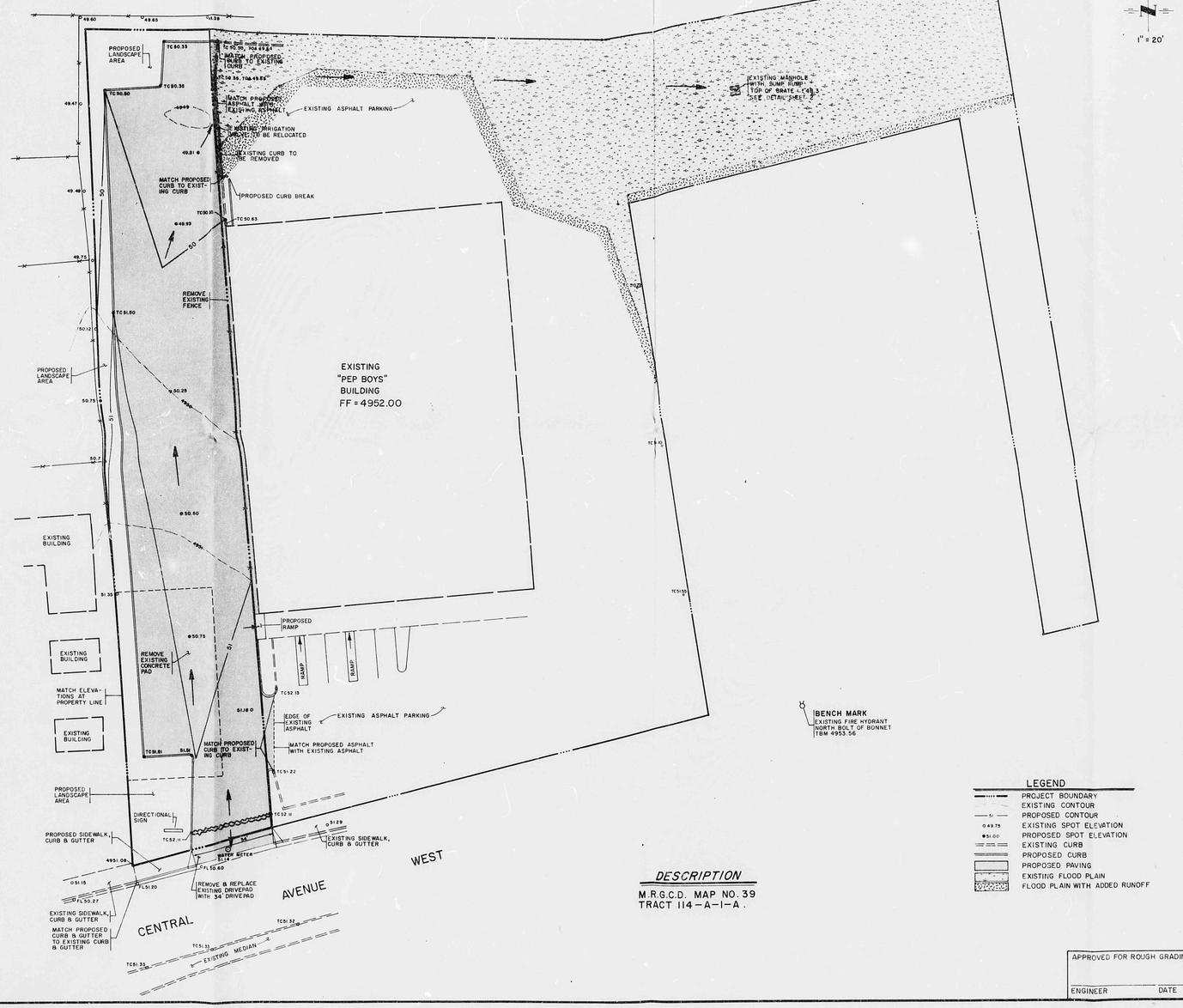

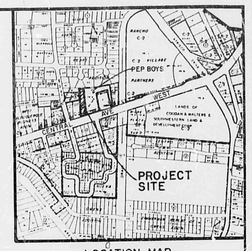

LOCATION MAP
ZONE ATLAS MAP NO. K-12

SITE LOCATION

The site is located on Central Avenue N.W., west of Atrisco Road and is identified on the Location Map shown on this sheet. It is bounded by Central Avenue on the south, developed residential lots on the north, developed commercial lots on the west, and the existing Pep Boys site to the east. Zoned for commercial purposes, the site consists of 0.4209 acres.

EXISTING CONDITIONS

Presently the site location is completely covered by asphalt and concrete. It slopes to the north, and all discharge is directed to the northern edge of the site. The site does not contribute runoff to the Pep Boys site.

The SCS soils map for Bernalillo County identifies the site as a Type "B" hydrological soil group.

PROPOSED CONDITIONS

Current plans call for developing the site into additional parking for the Pep Boys. Approximately 0.075 acres of the site will be landscaped.

Runoff from the landscaped area will still be directed to the northern edge of the site. However, because landscaping is replacing asphalt, the impervious condition of the site will decrease, effectively reducing runoff.

The parking areas will now drain eastward into the present Pep Boys parking lot. Runoff will be directed towards an existing sump pump which discharges to Central Avenue. Currently the pump is expected to handle 15,400 cubic feet of ponded discharge within a 24 hour period (80 gpm). Development will increase discharge by 2600 cubic feet, thereby requiring a pump that will handle 18,000 cubic feet within 24 hours (93.5 gpm). This rate will be provided by the manhole sump pump system.

The Pep Boys parking lot currently has 14,625 square feet devoted to flood plain area. Addition of 2600 cubic feet to this area will only raise the 100-year water level by 2.2 inches, an amount easily contained on-site by existing curbs.

CALCULATIONS (RATIONAL METHOD)

Present Runoff

Area = 0.4209 acres
% Impervious = 97%; C = 0.95 (DPM Plate 22.2 C-1)
6 Hr Rain = 2.2"
Rainfall Intensity = 4.65 in./hr.
Runoff, Q = CIA = 0.95(4.65)(0.4209) = 1.86 cfs
Volume = 2.2/12 (0.95)(0.4209) = 0.073 ac. ft. = 3193 c.f.

Runoff After Development

Parking Lot:

Area = 0.35 acres
% Impervious = 97%; C = 0.95
Runoff, Q = CIA = 0.95(4.65)(0.35) = 1.53 cfs
Volume = 2.2/12 (0.95)(0.35) = 0.061 ac.ft. = 2655 c.f.

Landscaped Area:

Area: 0.073 acres
% Impervious = 9%; C = 0.37
Runoff, Q = CIA = 0.37(4.65)(0.073) = 0.126 cfs
Volume = 2.2/12 (0.37)(0.073) = 0.005 ac. ft. = 215 c.f.

Rise in Water Level at Pep Boys

Extra water volume delivered to present parking lot = 2655 c.f.
Flood plain surface area in present parking lot = 14,625 s.f. (approximately)
Rise in water level = 2655 c.f./14,625 s.f. = 0.18 ft. (2.2 inches)

Pumping Rate

Total = 18,000 c.f.
Total/24 hrs. discharge = 0.208 cfs (93.5 gpm)

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LEGEND

- PROJECT BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CURB
- PROPOSED CURB
- PROPOSED PAVING
- EXISTING FLOOD PLAIN
- FLOOD PLAIN WITH ADDED RUNOFF

DESCRIPTION

M.R.G.C.D. MAP NO. 39
TRACT 114-A-1-A.

APPROVED FOR ROUGH GRADING

ENGINEER DATE

Date	Revision	By
4/16/87	TOP OF CURB PLAN AS BUILT	MJ

PEP BOYS at CENTRAL AVE.

Project No.

Seal

Mary L. Chen 3-17-87

GRADING PLAN FOR ADDITIONAL PARKING

Job No.	71521	Sheet 1 Of 2	
Drawn By:	TG	Date:	3/87
Checked By:	KLD	Scale:	1" = 20'

BROWNING 6425B

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