

REQUESTING PRE DESIGN CONFERENCE

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 01/06)

PROJECT TITLE: ADVANCED AUTO PARTS STORE ZONE MAP/DRG. FILE # H 14 Z
DRB#: _____ EPC#: _____ WORK ORDER#: _____
LEGAL DESCRIPTION: TRACTS "A-1" AND "A-2" OF THE WHITE CITY - GLENHAVEN ADDITION
CITY ADDRESS: TO THE CITY OF ALBUQUERQUE, NM
3021 4TH ST. NW, ALBUQUERQUE, NM 87107
ENGINEERING FIRM: MILLER ENGINEERING CONSULTANTS CONTACT: JOHN JACQUEZ
ADDRESS: 3500 COMANCHE NE, BUILDING F PHONE: 505-888-7500
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87107
OWNER: THE SKARSGARD FIRM P.C. CONTACT: JOSHUA J. SKARSGARD
ADDRESS: 8220 SAN PEDRO NE, SUITE 500 PHONE: 505-262-2323
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87113
ARCHITECT: GG ARCHITECT, LLC CONTACT: CLINT WILSEY, ARCHITECT
ADDRESS: 2041 S PLAZA ST. NW PHONE: 505-280-0443
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87104
SURVEYOR: PRECISION SURVEYS, INC. CONTACT: LARRY MEDRINO
ADDRESS: 8414-D JEFFERSON ST. NE PHONE: 505-856-5700
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87113

PROFESSIONAL LICENSED SURVEYOR SIGNATURE

LICENSE NO.

DATE

CONTRACTOR:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1" SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☒ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT (DRB SITE PLAN)
☐ OTHER

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
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TEMP)
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

YES

☒ NO, Requesting Pre design Conference

☐ COPY PROVIDED

SUBMITTED BY:

DATE:

7/10/15

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 (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.

Precipitation Zone 2

Existing Land Treatments. Total AREA = 33857 SF
= 0.78 Acres.

- A 0.18 Ac
B —
C —
D 26070 SF = 0.60

PROPOSED LAND TREATMENTS

- A —
B —
C 0.08 Ac
D $32102 - 757 - 357 - 596 - 232 = 30160 \text{ SF} = 0.70$

FIRST FLUSH CALCULATION

$$(0.44 - 0.1 \text{ INCHES}) \cdot \frac{\text{LFT}}{12 \text{ IN}} = 0.0283 \text{ (IMP AREA 30160)}$$

854 CF OF VOLUME REQUIRED

IN VALLEY FIRST $\frac{1}{2}$ " OF PRECIP MUST BE
DETAINED (IMPERVIOUS)

$$0.5" \left(\frac{1'}{12"} \right) = 0.042 (30160) = 1257 \text{ cf.}$$

1257 cf vol required to be
detained.

Estimated
WATER HARVEST 1
SEE BUILDING

1685
926

1305 cf

NE BUILDING 2

757
449

603

NW BUILDING 3

357
162

260

WEST OF BUILDING 4

596
177

387

NORTH OF WH 4 5

231
126

179

1429 cf

..

1429 > 1257 ∴ OK.

Ex Drain BASINS

A 0.2 AC

B 0.58 AC

LAND TREATMENTS BA

BASIN A TOTAL AC 0.2

A	—
B	—
C	—
D	0.2

BASIN B TOTAL AC = 0.58

A 0.18

B

C

D 0.4

PROP Drain BASINS

1 10519 0.24 AC

2 0.54 AC

LAND TREATMENTS

BASIN 1 TOTAL AC 0.24 AC

A 0.04

B

C 0.04

D 10519 - 1185 - 757 = 8577 0.20

BASIN 2 TOTAL AC = 0.54

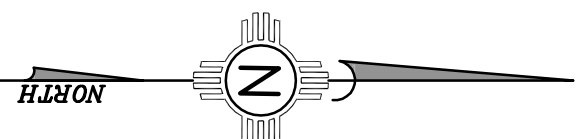
A 0.04

B

C 0.04

D 0.50

A1



ADVANCE AUTO PARTS IS LOCATED AT 7715 4th STREET N.W. IN ALBUQUERQUE, N.M. THE BOUNDARY IS RECTANGULAR IN SHAPE AND BOUNDED BY EXISTING RESIDENCES TO THE WEST, EXISTING BUSINESS TO THE SOUTH, AN EXISTING BUSINESS TO THE NORTH, AND 4TH STREET N.W. TO THE EAST.

THE SITE IS DELOEDED WITH AN EXISTING ASPHALT PAVED PARKING AREA. THE SITE IS ACCESSED FROM 4TH STREET N.W. ON THE EAST SIDE OF THE SITE. THE PROPERTY HAS TWO DRAINAGE EXISTING CAR WASH AND EXISTING VACUUMS. THE SURFACE FLOWS AND POST HYDROLOGY. BASIN A DRAINS TO EAST INTO 4TH STREET N.W. VIA A DISCHARGE SWALE. THE DRAINAGE DATA ON THIS PAGE SUMMARIZES THE EXISTING DRAINAGE FOR BASIN A AND B.

GENERAL NOTES:

EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS OBTAINED FROM THE RECORDS OF THE MISSOURI STATE ENGINEERING CONSULTANTS HAS BEEN FIELD VERIFICATION OF THIS INFORMATION.

ACS STA 5+436 BENCH MARK THE TOP OF A STAINLESS STEEL ROD SET BENEATH A 5'-1/2" NOS ACCESS COVER STAMPED "A-438 1964 SET FLUSH WITH THE GROUND, THE TOP OF THE BENCH MARK IS 10' 0" ABOVE THE MEAN LOW WATER AND THE TOP OF THE BENCH MARK IS 10' 0" ABOVE THE MEAN LOW WATER. (NAVD 1989)

[illegible]

THERE ARE NO OFFSITE FLOWS THAT DRAIN ONTO THE SITE

ALL EMBANKMEN

AND FLOW RATE INCREASED AS A RESULT OF CHANGES IN LAND USE. RAINFALL VOLUMES FOR BASIN A BY 0.021 ACRE FEET AND THE PEAK FLOW RATE HAD INCREASED BY 0.44 CFS. THE MAJORITY OF THE RINFOT DEVELOPED FROM THE PROPOSED IMPROVEMENTS WILL DISCHARGE INTO THE PROPOSED WATER HARVEST AREA THEN ULTIMATELY TO 4TH STREET OR 5TH STREET WHEN THE WATER HARVEST AREA REACHES CAPACITY. BASED ON THE SUBSURFACE HYDROLOGY DEPARTMENT'S ANALYSIS, THE PROPOSED WATER HARVEST AREA WILL NOT BE A SOURCE OF RAIN ONSET. THAT CALCULATION WAS DETERMINED TO BE 1257 CUBIC FEET OF WATER. SINCE THE PROPOSED WATER HARVEST AREA RETAINS 1,425 CUBIC FEET OF WATER, WHICH EXCEEDS THE 1257 CUBIC FEET CALCULATED FOR THE FIRST HALF INCH OF RAIN.

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE SIDEWALK CULVERTS

VALLEY, BUTTERS, CURR, AND BUTTERS, AND CORN CROPS ALLOWING STORAGE WATER INTO AND OUT OF PROPOSED WATER HARVESTING AREAS. THESE WATER HARVESTING AREAS WILL BE USED TO MANAGE THE FIRST FLUSH AS REQUIRED BY THE CURRENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE. THE VOLUME OF THE FIRST FLUSH (0.44-0.1 INCHES * IMPERVIOUS AREA= 854 cf. THE WATER HARVEST AREA VOLUME = 1425 cf. THEREFORE MANAGES THE FIRST FLUSH. (SEE CALCULATIONS BELOW)

GENERAL NOTES:

1. EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY WAXOH SURVEYING, INC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
2. ACS STA A+438 BENCH MARK, THE TOP OF A STAINLESS STEEL 60" SET BENEATH SLAB #1, HAS ACCESS COVER LOCATED IN THE NORTHWEST QUADRANT OF MERRILL, BOLLEWARD AND THE A.T. & S.F. RAILROAD TRACKS INTERSECTION, ELEV. 4973.35 (NAD 1988)
3. TBM FOUND 1/2" REBAR WITH CAP "LS 11463" ELEV. 4965.21
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
5. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
6. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
7. ALL ENLIGHTENMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE ENLIGHTENMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
8. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
9. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
10. THE MAJORITY OF SUBJECT PROPERTY IS LOCATED WITHIN ZONE X (EASTERN 75% FROM 4TH STREET). THE REMAINING EASTERN 25% IS LOCATED IN ZONE X (500' YEAR) DESIGNATING AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD PLANE ACCORDING TO THE FLOOD INSURANCE RATE MAP, ALBUQUERQUE, NEW MEXICO AND UNINCORPORATED AREA PER MAP NO 3500C1 035262
11. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE, STORM

SPECIAL ORDER 19

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

21. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

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

WATER HARVEST VOLUMES

Basin	Basin Area (Ac)	Land Treatment Factors				EW (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)
		A	B	C	D				
Existing Conditions									
A	0.200	0.000	0.000	0.000	0.200	2.120	0.035	0.042	0.940
B	0.580	0.180	0.000	0.000	0.400	1.627	0.079	0.092	2.161
Total	0.780							0.134	3.101
Proposed Conditions									
1	0.240	0.000	0.000	0.040	0.200	1.955	0.039	0.046	1.066
2	0.540	0.000	0.000	0.040	0.500	2.047	0.092	0.109	2.476
Total	0.780							0.155	3.541

Basin	Basin Area (Ac)	Land Treatment Factors				EW (in)	V(10-6) (af)	V(10-24) (af)	Q(10) (cfs)
		A	B	C	D				
		(Acres)							
Existing Conditions									
A	0.200	0.000	0.000	0.000	0.200	1.340	0.022	0.027	1.628
B	0.580	0.180	0.000	0.000	0.400	0.964	0.047	0.056	0.324
Total	0.200							0.082	0.628
Proposed Conditions									
1	0.240	0.000	0.000	0.040	0.200	1.203	0.024	0.028	0.686
2	0.540	0.000	0.000	0.040	0.500	1.279	0.058	0.068	1.658
Total	0.540							0.097	1.658

16. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADEING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADEING AND DRAINAGE PLAN.
17. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SLOPE ADKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
18. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
19. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
20. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
21. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

66ARCHITECT, LLC	
Clint Wilsey, Architect	
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505 280-0043	
DRAWN BY: CJW	
ISSUE: PERMIT SET	

ADVANCE AUTO PARTS

New Retail Store
2801 4th St.

Albuquerque, NM

SHEET TITLE:

GRADING AND DRAINAGE REPORT

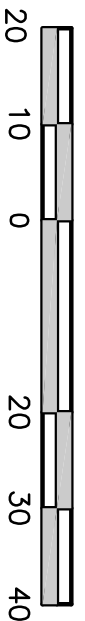


- LEGEND:**
- | | |
|---|------------------------|
| PROPOSED SPOT ELEVATIONS (FINISHED GRADE) | GRADE BREAK-HIGH POINT |
| MATCH (55.19) | SWALE |
| TOP OF CONCRETE | STORM DRAIN LINE |
| FLOW LINE, CURB | |
| INVERT | |
| FINISH GRADE | |
| TOP OF BASE COURSE | |
| TOP OF CURB | |
| TOP OF GRATE | |
| FLOW ARROW | |
- KEYED NOTES:**
- MATCH NEW TOP OF CONCRETE DRIVEWAY WITH EXISTING FLOWLINE OF CURB. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATION PRIOR TO CONSTRUCTION.
 - NEW ASPHALT PARKING LOT. SEE SECTION SHEET C-501.
 - NEW CONCRETE SIDEWALK. AS PER COA STANDARD DWG 2430. CONTRACTOR SHALL SUBMIT A JOINT PATTERN TO THE PROJECT ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 - NEW TYPE A HANDICAP RAMP. SEE SHEET C-501 FOR DETAILS.
 - NEW WATER HARVEST AREA 1. TOP=???, INV=???. VOLUME=??? CF. SEE DETAIL. THIS SHEET C-501.
 - NEW WATER HARVEST AREA 2. TOP=???, INV=???. VOLUME=??? CF. SEE DETAIL. THIS SHEET C-501.
 - NEW WATER HARVEST AREA 3. TOP=???, INV=???. VOLUME=??? CF. SEE DETAIL. THIS SHEET C-501.
 - NEW WATER HARVEST AREA 4. TOP=???, INV=???. VOLUME=??? CF. SEE DETAIL. THIS SHEET C-501.
 - NEW 24" WIDE SIDEWALK CULVERT WITH STEEL PLATE TOP. AS PER COA STANDARD DETAIL 2236.
 - NEW TYPE B HANDICAP RAMP. SEE SHEET C-501 FOR DETAILS.
 - NEW DRIVEPAD. SEE SHEET C-501 FOR DETAILS.
 - NEW CURB AND GUTTER. SEE SHEET C-501 FOR DETAIL.
 - NEW THICKENED EDGE ON CONCRETE SIDEWALK. SEE SHEET C-501 FOR DETAIL.
 - NEW BUILDING. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - MATCH EXISTING TOP BACK OF CURB WITH TOP OF CONCRETE ELEVATION. AND SLOPE @ 2% UP MAXIMUM.

A1 GRADING AND DRAINAGE PLAN

SCALE: 1"=10'

SCALE: 1"=20'
CONTOUR INTERVAL = 1'



A1 EXISTING DRAINAGE BASIN MAP

SCALE: 1"=30'

A1 PROPOSED DRAINAGE BASIN MAP

SCALE: 1"=30'

