

#### CAUTION - NOTICE TO CONTRACTOR

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#### IMPERVIOUS AREA CALCULATIONS

**EXISTING SITE CONDITIONS** PERVIOUS AREA: 2,186 SF IMPERVIOUS AREA: 35,845 SF TOTAL SITE AREA: 38,031 SF % IMPERVIOUS = 94.3%

PROPOSED SITE CONDITIONS PERVIOUS AREA: 6,647 SF IMPERVIOUS AREA: 31,384 SF TOTAL SITE AREA: 38,031 SF % IMPERVIOUS = 82.5%

FIRST FLUSH CALCULATION TOTAL IMPERVIOUS AREA = 31.384 SF FIRST FLUSH = 31,384 \* 0.34" / 12 = 889 CF

# WATER HARVESTING POND VOLUME CALCULATIONS

er a			
	TOTAL		558 CF
	5287.00	144 SF	207 CF
	5288.00	430 SF <	287 CF
'B'	5288.50	654 SF	271 CF
	TOTAL		699 CF
	5288.00	510 SF	099 CF
'A'	5288.85	1,134 SF	699 CF
	CONTOUR ELEVATION	AREA (SF)	VOLUME (

Area

# LEGEND

----- FLOW ARROW PROPOSED TOP OF GRADE/PVMT ELEVATIONS PROPOSED FLOW LINE/GUTTER ELEVATIONS

TC27.8 PROPOSED TOP OF CURB ELEVATIONS FGH27.8 PROPOSED GRADE AT TOP OF WALL FGL27.8 PROPOSED GRADE AT BOTTOM OF WALL

**EXISTING CONTOUR** 

EXISTING STORM DRAIN RIDGE LINE

# DRAINAGE MANAGEMENT PLAN

The purpose of this submittal is to provide a final drainage management plan for the Redevelopment of Lot 3-A-1, Tijeras Place Improvement Company, Inc., located at 3016 Central Ave SE and near the southwest corner of Central Ave SE and San Pedro Dr SE in Albuquerque, NM. The project area contains approximately 0.87 acres. The site is located in COA Hydrologic Zone 3 and we found three existing relevant drainage reports for the site, including K18/D070, K18/D080, and K18/D091.

EXISTING HYDROLOGIC CONDITIONS Per aerial photos dated 2006, the site used to contain a Furr's Cafeteria, a small retail building, and associated parking. Both buildings have since been razed. The site currently drains from east to west and accepts flows from the adjacent developments to the east including an old service station located at the southwest corner of Central and San Pedro. These flows turn south on-site and then drain over the top of an existing retaining wall (through openings in the concrete blocks) of the Valencia Court Apartments located at 200 Valencia Dr SE. These flows ultimately drain across the Valencia Court Apartments site to Valencia Dr per prior approved plans by Tierra West LLC and into a public storm drain system located in Valencia Dr. Per the Calculations table this sheet, the total existing flow leaving the site is 4.30 cfs during the 100-Yr, 6-Hr Storm Event. These flows do not include the existing off-site developed flows from the parking lot to the east to San Pedro Dr.

#### PROPOSED HYDROLOGIC CONDITIONS

The proposed site will continue to drain from east to west and then south over the existing retaining wall located on the Valencia Court Apartments as discussed above. There is a reduction in impervious area located on the site and the total discharge from the site will be reduced to 4.14 cfs per the Calculations Table this sheet. There is also a reduction of the 6-Hour storm volume equivalent to 400 CF due to the increase in landscape areas. These flows do not include the existing off-site developed flows from the parking lot to the east to San Pedro Dr.

# FIRST FLUSH CALCULATIONS

Per the First Flush Calculations on this sheet, the total Water Harvesting Pond Volume required to be collected for the site is 889 CF. Per the Water Harvesting Pond Calculations table this sheet, we are actually retaining 1,257 CF of volume from the site which provides 368 CF of additional storage than required.

# CONCLUSION

Q(100) Q(100) WTE

Q(100) Q(100) WTE

0.0% | 0.0% | 17.5% | 82.5% | 4.75 | 4.14 | 2.17 | 6886 | 7932 | 11069

4.14

V(100)360

V(100)1440 V(100)10d

6886 7932 11069

B C D (cfs/ac.) (CFS) (inches)

0.0% 0.0% 5.7% 94.3% 4.93 4.30 2.30

A B C D (cfs/ac.) (CFS) (inches)

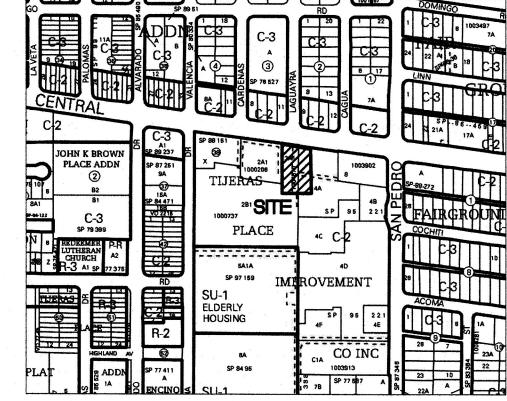
1,257 CF

Existing Clean Machine Car Wash Drainage Calculations

Proposed Clean Machine Car Wash Drainage Calculations Ultimate Development Conditions Basin Data Table

Land Treatment Percentages

This drainage management plan provides for grading and drainage elements which reduce the impact to downstream systems; are capable of safely passing the 100 year storm, do not burden downstream systems, and meet city requirements. With this submittal, we are requesting Building Permit approval.



# VICINITY MAP Zone Atlas K-18

#### LEGAL DESCRIPTION

Lot 3-A-1, Tijeras Place Improvement Company, Inc. Project Area = +/-0.87 Acres



# FIRM MAP 35001C0354H, COA Hydrologic Zone 3

Per FIRM Map 35001C0354H, dated August 16, 2012, the site is not located in the 'Zone X Floodplain' and determined to be outside the 0.2% chance Annual Floodplain area.

# GRADING NOTES

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

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

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).

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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.

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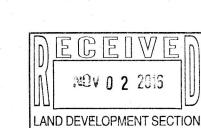
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL 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 +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN

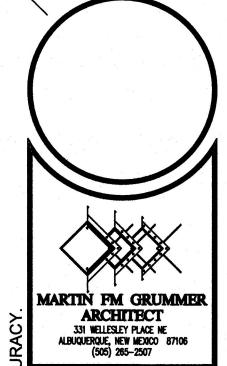
9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.

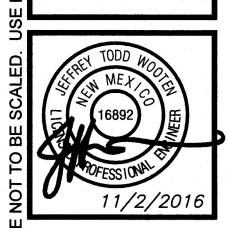
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Wooten Engineering





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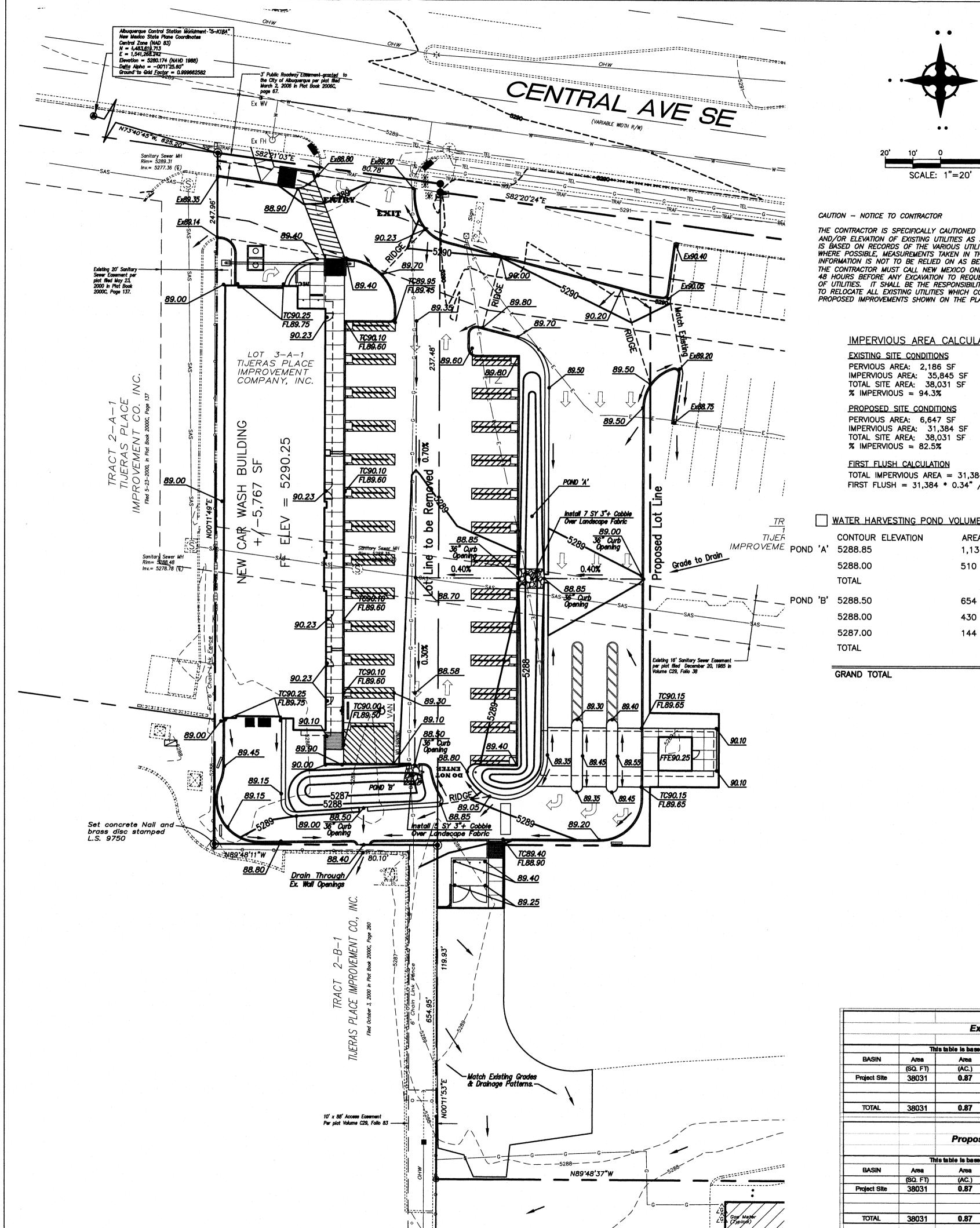
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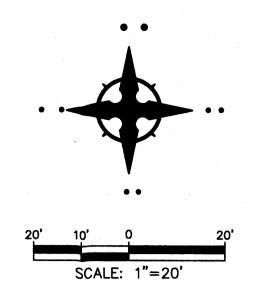
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REVISIONS			
1			
8			

GRADING PLAN

SHEET NO:





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BASIN

Area

38031

38031

0.87

TOTAL 38031

FIRST FLUSH CALCULATION TOTAL IMPERVIOUS AREA = 31,384 SF FIRST FLUSH = 31,384 \* 0.34" / 12 = 889 CF

# WATER HARVESTING POND VOLUME CALCULATIONS

Α,	CONTOUR 5288.85	ELEVATION		EA (SF	•	VOLU	JME	(
^	5288.00			34 SF ) SF	>	699	CF	
	TOTAL					699	CF	
B'	5288.50		654	F SF		271	<b>^</b> _	
	5288.00		430	SF				
	5287.00		144	l SF	<u> </u>	287	CF	
	TOTAL					558	CF	
								_
	GRAND TO	TAL			1	,257	CF	

# LEGEND

FLOW ARROW

PROPOSED TOP OF GRADE/PVMT ELEVATIONS

PROPOSED FLOW LINE/GUTTER ELEVATIONS

PROPOSED TOP OF CURB ELEVATIONS

PROPOSED GRADE AT TOP OF WALL

PROPOSED GRADE AT BOTTOM OF WALL EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING STORM DRAIN

#### DRAINAGE MANAGEMENT PLAN

INTRODUCTION

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4.30

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ble is based on the COA DPM Section 22.2, Zone: 3

A B C D (cfs/ac.) (CFS) (inches)

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V(100)360

(CF)

7286

7286

V(100)360

V(100)1440 V(100)100

8482 12068

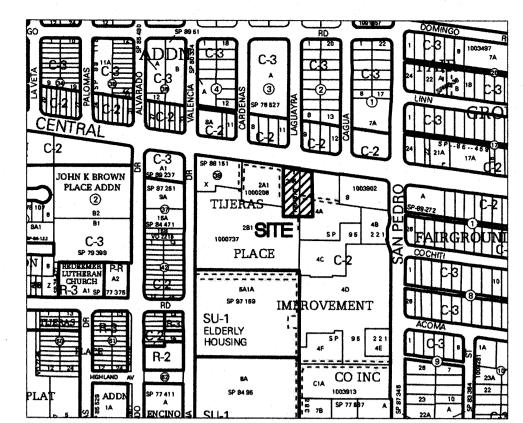
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V(100)1440 V(100)10de

(CF) (CF) 7932 11069

6886 7932 11069

(CF)



# VICINITY MAP Zone Atlas K-18

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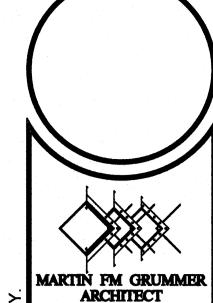
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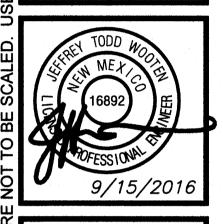
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Phone: (505) 980-3560



331 WELLESLEY PLACE NE LBUQUERQUE, NEW MEXICO 87106 (505) 265-2507

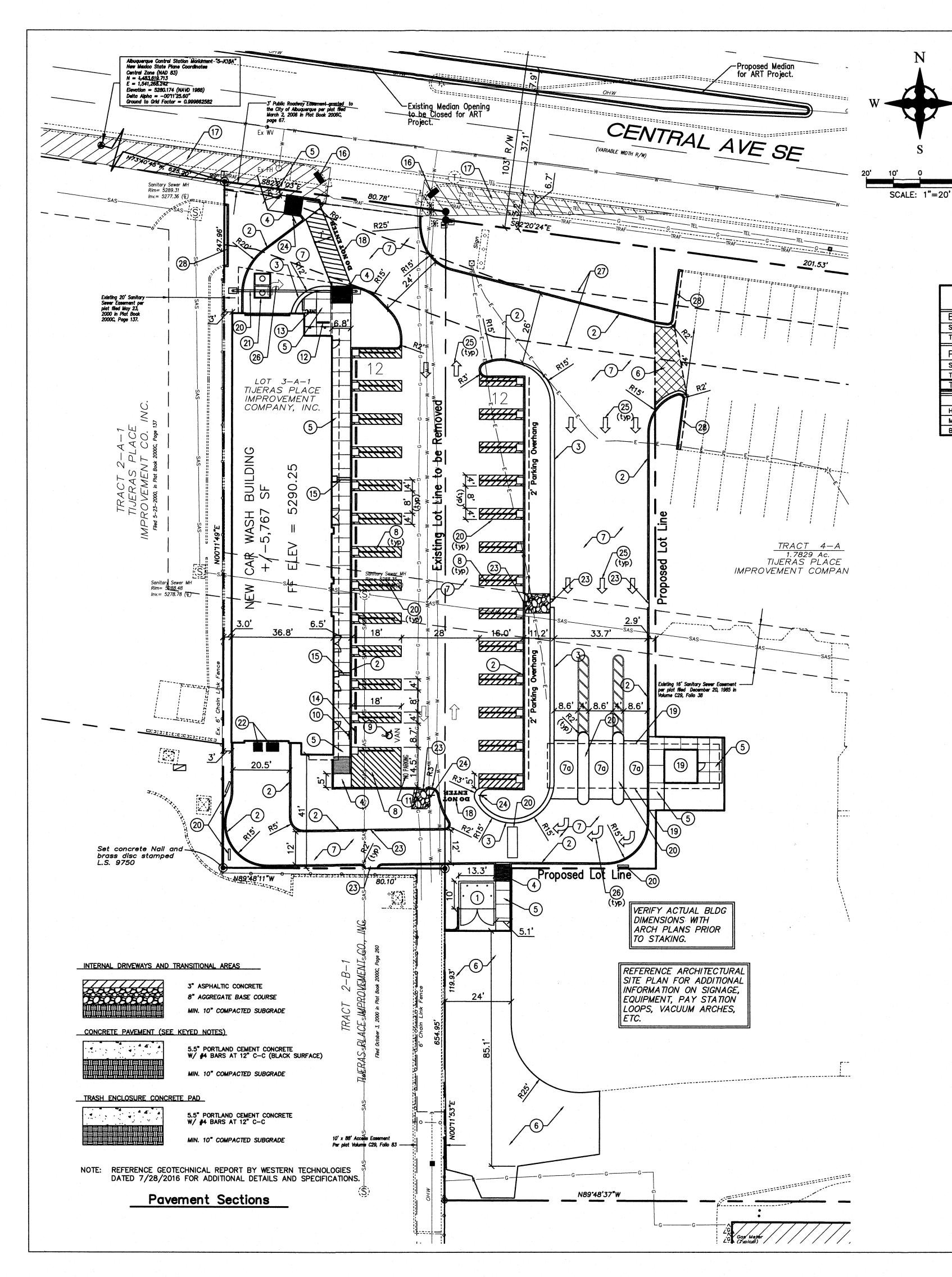


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12 SEPT 2016 DRAWN BY: JTW CHECKED BY: JTW VERIFIED BY: JTW REVISIONS

**GRADING PLAN** 

Wooten Engineering C201





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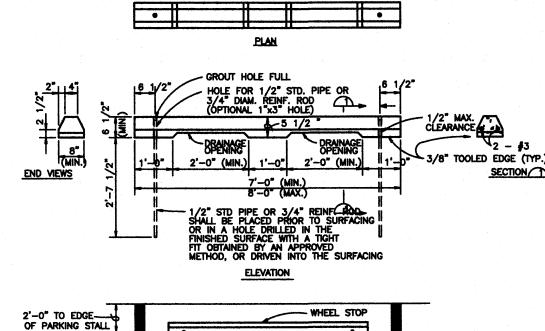
# SITE INFORMATION

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

CONTRACTOR TO PROVIDE PARKING LOT STRIPING, FIRELANE AND HANDICAP STRIPING PER THESE PLANS AND CITY OF ALBUQUERQUE REQUIREMENTS.

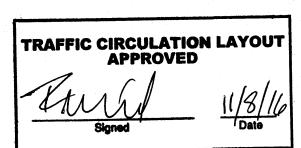
TO PRESERVE THE PAINTING / STRIPING WITHIN PARKING AREAS, DO NOT APPLY PAINT UNTIL ALL OTHER POTENTIALLY DAMAGING CONSTRUCTION HAS BEEN COMPLETED.

PARKING CALCULATIONS					
BUILDING AREA:	AREA (SQUARE FEET)				
SERVICE AREA		1,777 SF			
TUNNEL AREA		3,990 SF			
PARKING REQUIREMENTS:	RATIO	REQUIRED	PROVIDED		
SERVICE AREA	1/200 SF	9 spaces			
TUNNEL AREA	1/1,000 SF	4 spaces			
TOTAL		13 spaces	24 spaces		
		REQUIRED	PROVIDED		
HANDICAP PARKING		1 space	1 space		
MOTORCYCLE PARKING		1 space	1 space		
BICYCLE PARKING		2 spaces	3 spaces		
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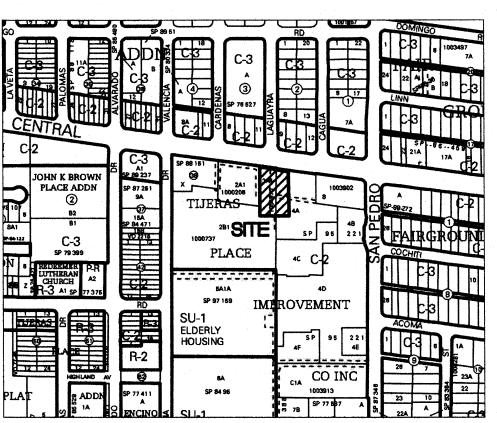


Precast Concrete Wheel Stop

INSTALLATION PLAN



ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.



# VICINITY MAP Zone Atlas K-18

#### LEGAL DESCRIPTION

Lot 3-A-1, Tijeras Place Improvement Company, Inc. Project Area = +/-0.87 Acres

ZONING C=2

#### FYED NOTES

1. DUMPSTER ENCLOSURE, PAD, & APRON. REF ARCHITECTURAL DETAILS SHEET A1.3.

- 2. INSTALL VERTICAL CURB PER ARCHITECTURAL DETAILS SHEET A1.3.
- 3. INSTALL ROLL CURB PER ARCHITECTURAL DETAILS SHEET A1.3.
- 4. INSTALL PARALLEL CURB RAMP PER NMDOT STD DWGS 608-001, SHEETS 1-12. DETECTABLE WARNING SURFACE NOT REQUIRED UNLESS WITHIN PUBLIC R/W.
- 5. INSTALL CONCRETE SIDEWALK PER COA STD DWG 2430.
- 6. INSTALL ASPHALT PAVEMENT, SEE PAVING DETAILS THIS SHEET.
- 7. INSTALL COLORED CONCRETE PER PAVING DETAILS THIS SHEET. COLOR: BLACK.

7a. USE 5'X5' DIAGONAL SCORING PATTERN ON BLACK CONCRETE PER ARCHITECTURAL PLANS.

8. INSTALL 4" WIDE PAINT STRIPES AT 45' ANGLE TO PARKING STRIPES, SPACED AT 1'-6" (WHITE PAINT IN PARKING LOT, BLUE PAINT IN ACCESSIBLE PARKING AREAS). TWO COATS MINIMUM.

9. PAINTED WHEELCHAIR SYMBOL (BLUE) TO MEET ADA STANDARDS. TWO COATS MINIMUM.

10. INSTALL H/C SIGNAGE PER DETAIL ON SHEET A1.3. ADD VAN ACCESSIBLE SIGNAGE WHERE NOTED. WHEN A POLE MOUNTED SIGN WILL NOT FIT WITHIN DESIGNATED AREA, SIGN SHALL BE BOLTED TO BUILDING. H/C SIGN MUST INCLUDE LANGUAGE PER 66-7-352.4C NMSA 1978 "VIOLATORS ARE SUBJECT TO A FINE AND/OR TOWING."

11. PAINT WORDS 'NO PARKING' WITH LETTERS AT LEAST ONE FOOT HIGH AND 2 INCHES WIDE. TWO COATS MINIMUM.

12. INSTALL BIKE RACK WITH THREE (3) SPACES PER DETAIL SHEET A1.3.

13. MOTORCYCLE PARKING (4.5'x10'). ADD PAINT LABELS AND SIGNAGE PER COASTDS. TWO COATS MINIMUM.

- 14. INSTALL PRE-CAST WHEEL STOP PER DETAIL THIS SHEET.
- 15. INSTALL 'SCUPPER THRU SIDEWALK' PER ARCHITECTURAL DETAILS SHEET AND
- 16. INSTALL TRUNCATED DOMES AT EXISTING SIDEWALK CROSSING.
- 17. CLEAR SIGHT TRIANGLES (13'x90' TO RIGHT, 13'x350' TO LEFT) PER TRAFFIC ENGINEERING STANDARDS. LANDSCAPING & SIGNAGE SHALL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. THEREFORE, SIGNS, WALLS, TREES, AND SHRUBBERY BETWEEN 3 AND 8 FEET TALL (AS MEASURED FROM THE GUTTER PAN) WILL NOT BE ACCEPTABLE IN THIS AREA.
- 18. PAINT 'DO NOT ENTER' ON PAVEMENT. 24" MINIMUM HEIGHT. YELLOW PAINT. TWO COATS MINIMUM.
- 19. PAY STATION KIOSK BUILDING AND CANOPY. REF ARCHITECTURAL PLANS.
- 20. BOLLARDS, VACUUM ARCHES AND OTHER EQUIPMENT PER ARCHITECTURAL PLANS.
- 21. SAND / OIL SEPERATOR. REF SHEET C301 AND MEP PLANS.
- 22. CAR WASH DRAIN AND RAIL EQUIPMENT. REF ARCHITECTURAL PLANS.
- 23. CURB CUT FOR DRAINAGE. REF GRADING PLAN SHEET C201.
- 24. 'DO NOT ENTER' SIGN PER DETAIL 8, SHEET A1.3.
- 25. PAINT THROUGH ARROW PER FIGURE 3B-21 OF THE MUTCD. TWO COATS MINIMUM.
- 26. PAINT RIGHT TURN ARROW PER FIGURE 3B-21 OF THE MUTCD. TWO COATS MINIMUM.
- 27. PROPOSED 20' WIDE PUBLIC SAS EASEMENT TO ABCWUA.
- 28. MEDIAN CURB / GUTTER PER COA STD DWG 2415B.





10DD WOOD MEXICO MEXICO

CLEAN MACHINE CARWAS 6016 CENTRAL AVENUE S ALBUQUERQUE, NM 8710

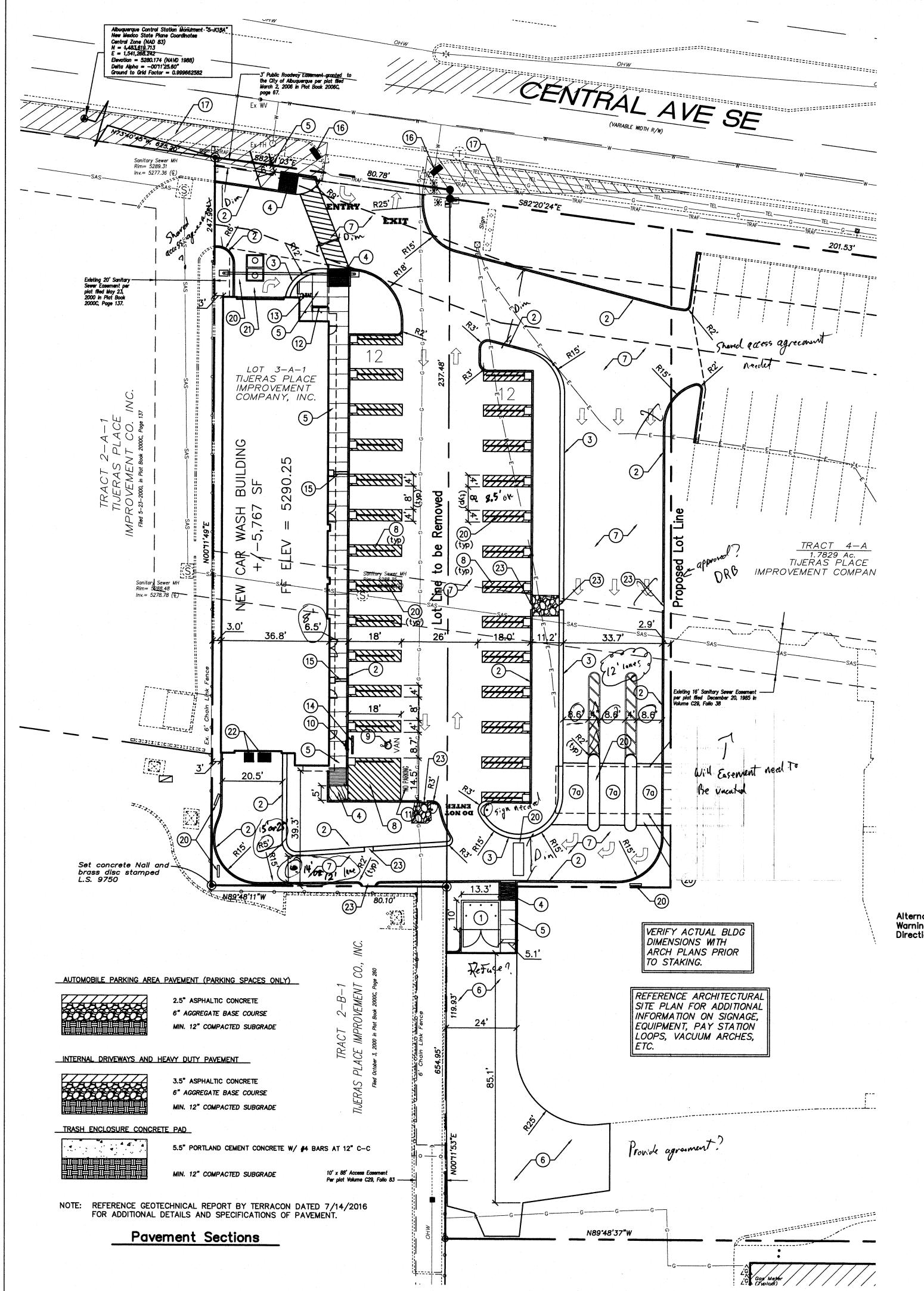
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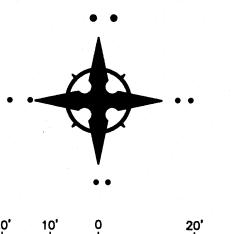
MENSIONS ARE TO BE

SITE PLAN

SHEET NO:

Wooten Engineering
1005 21st St SE, Suite A5
Rio Rancho, N.M. 87124
Phone: (505) 980-3560





SCALE: 1"=20'

#### CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL NEW MEXICO ONE CALL (811) AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

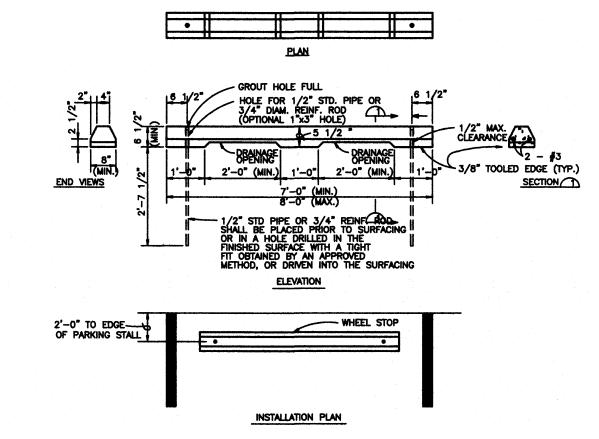
# SITE INFORMATION

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

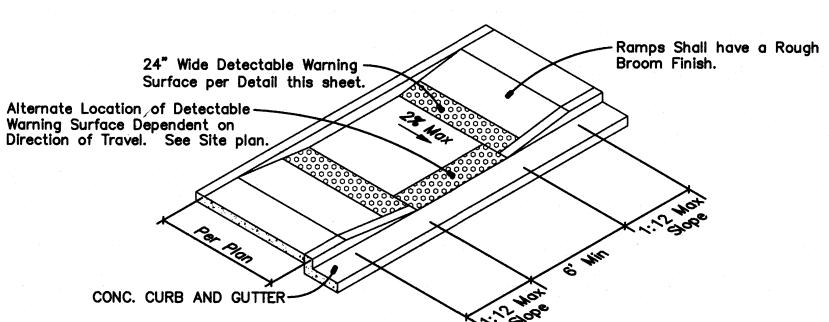
# CONTRACTOR TO PROVIDE PARKING LOT STRIPING, FIRELANE AND HANDICAP STRIPING PER THESE PLANS AND CITY OF ALBUQUERQUE REQUIREMENTS.

TO PRESERVE THE PAINTING / STRIPING WITHIN PARKING AREAS, DO NOT APPLY PAINT UNTIL ALL OTHER POTENTIALLY DAMAGING CONSTRUCTION HAS BEEN

PARKING CALCULATIONS					
5		T			
BUILDING AREA:		AREA (SQUARE FEET)			
SERVICE AREA		1,77	1,777 SF		
TUNNEL AREA		3,990 SF			
PARKING REQUIREMENTS:	RATIO	REQUIRED	PROVIDED		
SERVICE AREA	1/200 SF	9 spaces			
TUNNEL AREA	1/1,000 SF	4 spaces			
TOTAL		13 spaces	24 spaces		
		REQUIRED	PROVIDED		
HANDICAP PARKING		1 space	1 space		
MOTORCYCLE PARKING	1 space	1 space			
BICYCLE PARKING	2 spaces	3 spaces			



Precast Concrete Wheel Stop



DETECTABLE WARNING SURFACE SHALL BE CAST IN F REPLACEABLE TYPE AND SHALL EXTEND FULL, WIDTH OPENING. COLOR SHALL BE "SAFETY YELLOW".

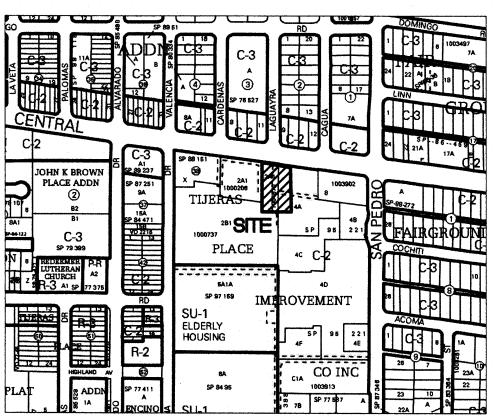
APPROVED PRODUCTS INCLUDE:

"REPLACEABLE WET SET" BY ADATILE

"CAST IN PLACE REPLACEABLE" BY ACCESSTILE

"ALERTICAST" BY ALERT THE

In-Line Wheelchair Ramp



# VICINITY MAP Zone Atlas K-18

#### LEGAL DESCRIPTION

Lot 3-A-1, Tijeras Place Improvement Company, Inc. Project Area = +/-0.87 Acres

ZONING

# KEYED NOTES

- 1. DUMPSTER ENCLOSURE, PAD, & APRON. REF ARCHITECTURAL DETAILS SHEET A1.3.
- 2. INSTALL VERTICAL CURB PER ARCHITECTURAL DETAILS SHEET A1.3.
- 3. INSTALL ROLL CURB PER ARCHITECTURAL DETAILS SHEET A1.3.
- 4. INSTALL CURB RAMP WITH TRUNCATED DOMES PER DETAIL THIS SHEET. MATCH ADJACENT SIDEWALK WIDTH.
- 5. INSTALL CONCRETE SIDEWALK PER COA STD DWG 2430.
- 6. INSTALL ASPHALT PAVEMENT, SEE PAVING DETAILS THIS SHEET.
- 7. INSTALL COLORED CONCRETE PER PAVING DETAILS THIS SHEET. COLOR: BLACK.

7a. USE 5'X5' DIAGONAL SCORING PATTERN ON BLACK CONCRETE PER ARCHITECTURAL PLANS.

8. INSTALL 4" WIDE PAINT STRIPES AT 45" ANGLE TO PARKING STRIPES, SPACED AT 1'-6" (WHITE PAINT IN PARKING LOT, BLUE PAINT IN ACCESSIBLE PARKING AREAS). TWO COATS MINIMUM.

9. PAINTED WHEELCHAIR SYMBOL (BLUE) TO MEET ADA STANDARDS. TWO COATS MINIMUM.

10. INSTALL H/C SIGNAGE PER DETAIL ON SHEET A1.3. ADD VAN ACCESSIBLE SIGNAGE WHERE NOTED. WHEN A POLE MOUNTED SIGN WILL NOT FIT WITHIN DESIGNATED AREA, SIGN SHALL BE BOLTED TO BUILDING. H/C SIGN MUST INCLUDE LANGUAGE PER 66-7-352.4C NMSA 1978 "VIOLATORS ARE SUBJECT TO A FINE AND/OR TOWING."

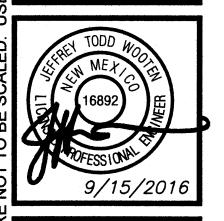
11. PAINT WORDS 'NO PARKING' WITH LETTERS AT LEAST ONE FOOT HIGH AND 2 INCHES WIDE. TWO COATS MINIMUM.

- 12. INSTALL BIKE RACK WITH THREE (3) SPACES PER DETAIL SHEET A1.3.
- 13. MOTORCYCLE PARKING (4.5'x10'). ADD PAINT LABELS AND SIGNAGE PER COA STDS. TWO COATS MINIMUM.
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Wooten Engineering
1005 21st St SE, Suite A5
Rio Rancho, N.M. 87124
Phone: (505) 980-3560





CLEAN MACHINE CARWASH 6016 CENTRAL AVENUE SE ALBUQUERQUE, NM 87108

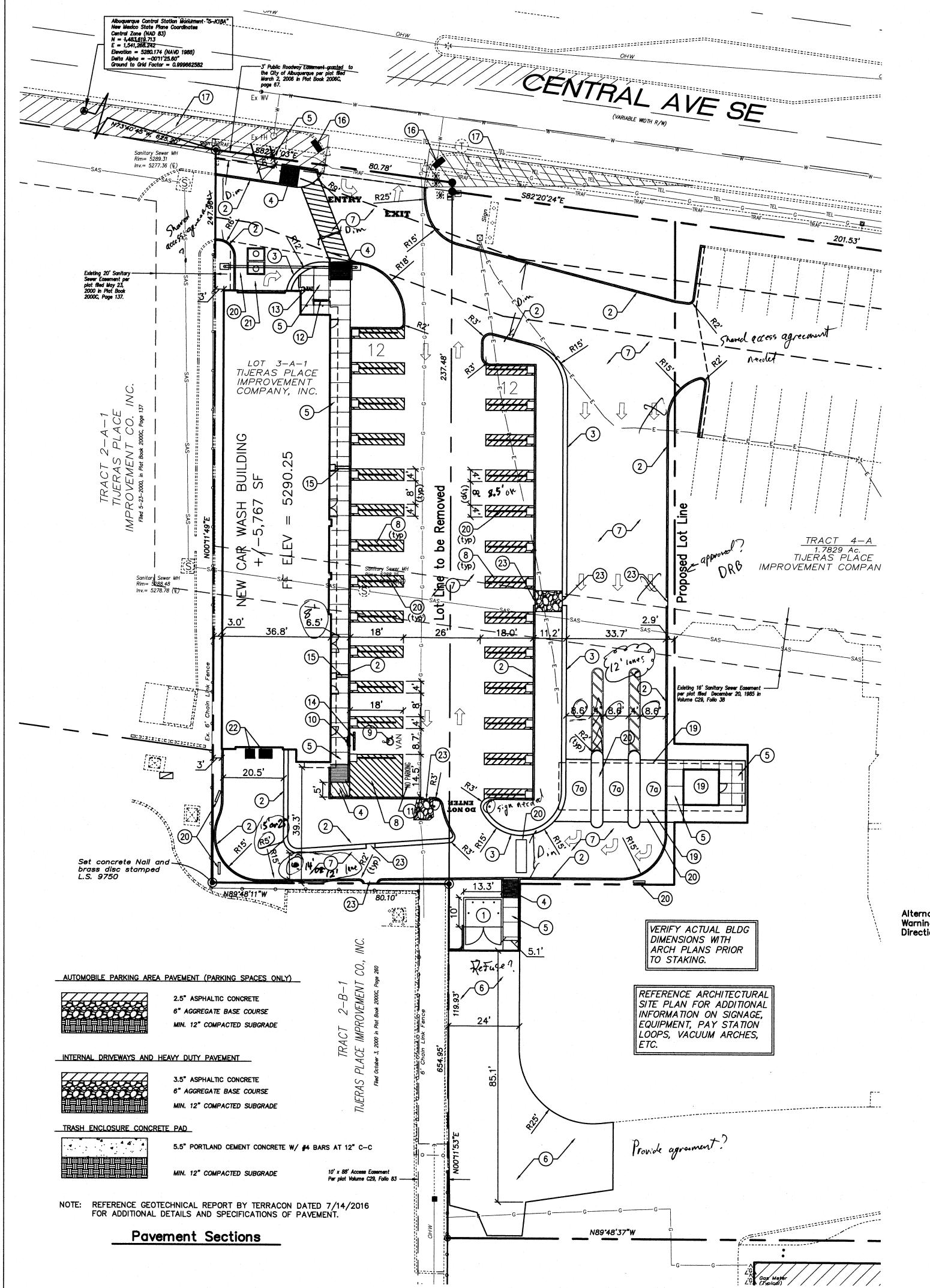
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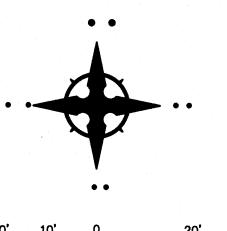
REVISIONS

SITE PLAN

SHEET NO:

C101





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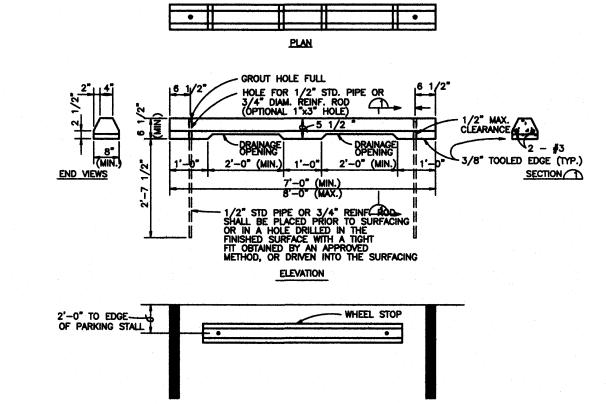
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Precast Concrete Wheel Stop

24" Wide Detectable Warning Surface per Detail this sheet.

Alternate Location of Detectable Warning Surface Dependent on Direction of Travel. See Site plan.

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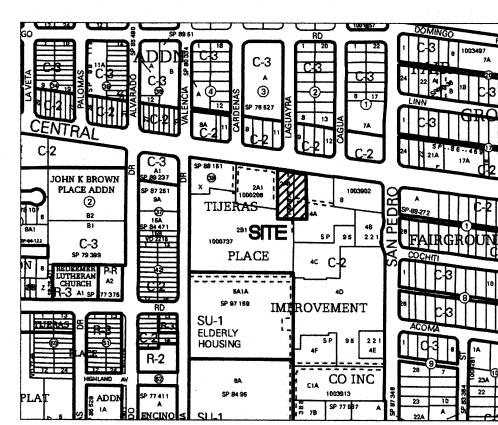
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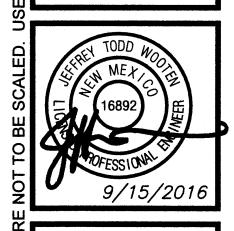
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CLEAN MACHINE CARWASH
6016 CENTRAL AVENUE SE
ALBUQUERQUE, NM 87108

DATE:
12 SEPT 2016
DRAWN BY:
JTW
CHECKED BY:
JTW
VERIFIED BY:
JTW

ENSIONS ARE TO BE FIEL SHOISIVE SHORT SHOR

SITE PLAN

SHEET NO: C101

