

Planning Department David Campbell, Director



April 24, 2019

Jacky Lin, P.E. WHPacific, Inc. 6501 Americas Parkway NE, Suite 400 Albuquerque, NM 87110

RE: **East Central Multi-Service Center Parking Lot Repaving**

7525 Zuni SE Grading and Drainage Plan Engineer's Stamp Date: 4/17/19 Hydrology File: K19D030

Dear Mr. Lin:

Based on the submittal received on 4/19/19, the Grading and Drainage Plan cannot be approved PO Box 1293 for Grading, Paving, or SO-19 Permit until the following are corrected:

> 1. Payment in Lieu (Amount = \$8600, per sheet 6A and 7) of onsite management of the storm water quality volume must be made. Once paid, provide a copy of the paid deposit slip along with a new DTIS form to Hydrology for Grading, Paving, and SO-19 Permit approval.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Dana Peterson, P.E.

Sincerely,

Senior Engineer, Planning Dept. **Development Review Services**

Albuquerque

NM 87103

www.cabq.gov



WHPacific Project # P0022127W.0011

April 17, 2019

Dana Peterson, P.E. Senior Engineer, Planning Dept. Development Review Services PO Box 1293 Albuquerque, New Mexico 87103

Re: East Central Multi-Service Center Parking Lots Repaying

7525 Zuni SE, Albuquerque, NM Grading and Drainage Plan Hvdrology File: K19D030

Dear Dana:

Attached is the grading and drainage resubmittal for Paving Permit and SO-19 Approvals. The drawings have been revised per your comments letter dated April 2, 2019.

The Payment in Lieu Amount for Management of the Storm Water Quality Volume (SWQV) will be submit separately by COA Municipal Development.

The attached re-submittal is for Paving Permit and SO-19 approvals

- One (1) Copy of the Drainage Information Sheet
- One (1) Copy of the Existing Topographic Survey
- One (1) Copy of the Drainage Plan West Parking Lot
- One (1) Copy of the Grading Plan West Parking Lot
- One (1) Copy of the Grading Plan East Parking Lot
- One (1) Copy of the Paving Plan West Parking Lot
- One (1) Copy of the Paving Plan East Parking Lot

Please contact me if you have any questions or comments.

Sincerely,

WHPacific, Inc.

By:

Minxuan (Jacky) Lin, PE Civil Engineer, Development Services 6501 Americas Pkwy NE, Ste 400 Albuquerque, NM 87110 cc: Rick Beltramo



COA STAFF:

City of Albuquerque

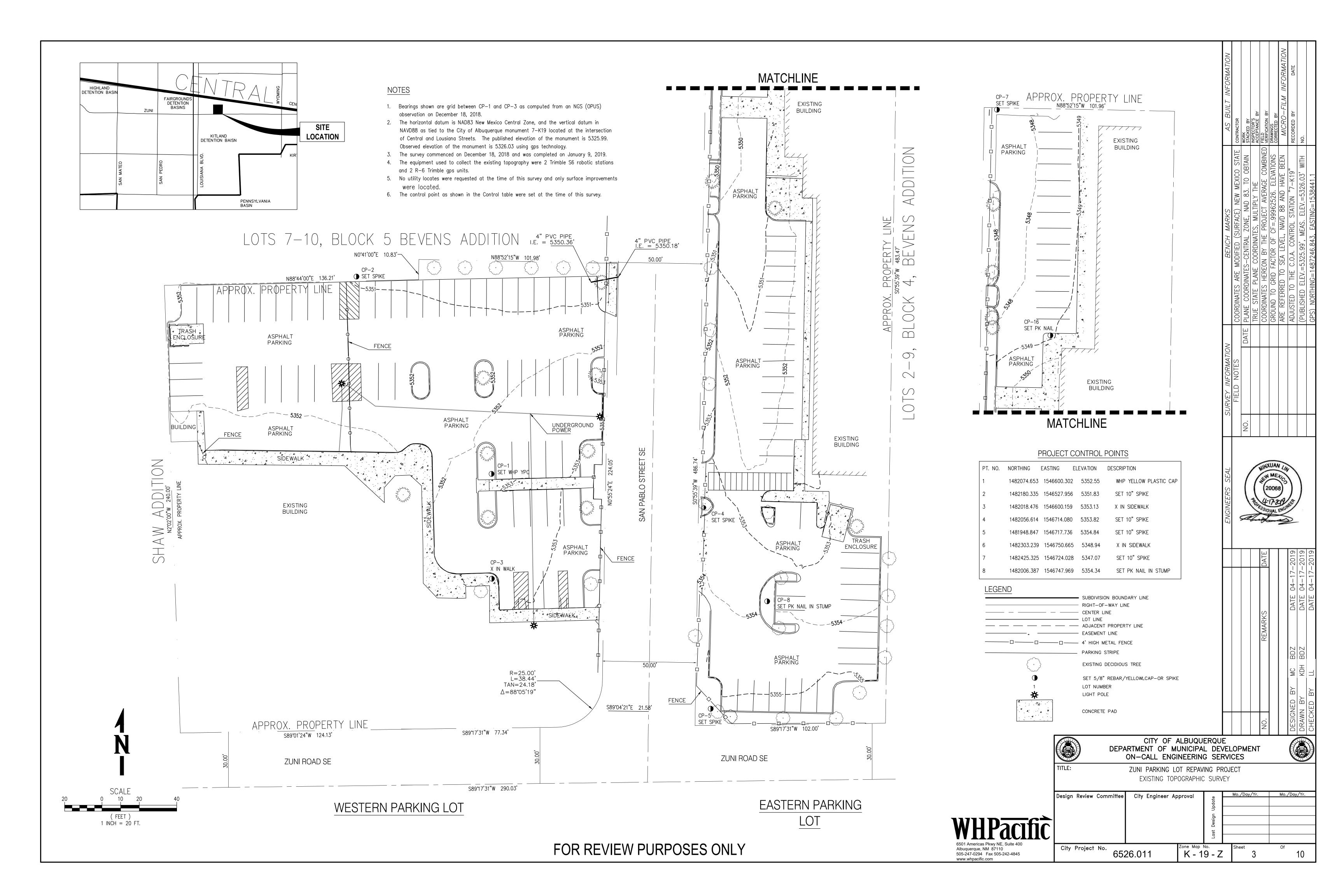
Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: East Central Multi-Service Cen	ter Parking Lots Repaying Building Perm	it #: N/A Hydrology File #: K19D030			
		it #: N/A Hydrology File #: K19D030 Work Order#: N/A			
Legal Description: TR CA-1 Re	pl of East Central Multi-Service Cen	ter & Lots 2-9, Block 4, BEVENS ADDITION			
City Address: 7525 Zuni SE, Albu	querque, NM 87108 & 306 San Pab	lo SE, Albuquerque, NM 87108			
Applicant: WHPacific, Inc		Contact: Minxuan(Jacky) Lin			
Address: 6501 America Pkwy NE,	Ste 400				
Phone#: 505-348-5221	Fax#:	E-mail: jlin@whpacific.com			
Owner: City of Albuquerque, Depar	tment of Municipal Development	Contact: Stacy Herrera			
Address: One Civic Plaza NW, 7th	Floor, Albuquerque, NM 87102				
Phone#: 505-768-2768	Fax#:	E-mail: stacyherrera@cabq.gov			
TYPE OF SUBMITTAL:P	LAT (# OF LOTS) RES	SIDENCE DRB SITE ADMIN SITE x Othe			
IS THIS A RESUBMITTAL?: X	Yes	No			
DEPARTMENT: TRAFFIC	C/TRANSPORTATION X	HYDROLOGY/ DRAINAGE			
Check all that Apply:					
TANDE OF CUDINITY A		TYPE OF APPROVAL/ACCEPTANCE SOUGHT:			
TYPE OF SUBMITTAL:	EDTIFICATION	BUILDING PERMIT APPROVAL			
ENGINEER/ARCHITECT C	ERTIFICATION	CERTIFICATE OF OCCUPANCY			
PAD CERTIFICATION	NT.	PRELIMINARY PLAT APPROVAL			
CONCEPTUAL G & D PLAN	N	SITE PLAN FOR SUB'D APPROVAL			
X GRADING PLAN		SITE PLAN FOR BLDG. PERMIT APPROV			
DRAINAGE MASTER PLAN	N	FINAL PLAT APPROVAL			
DRAINAGE REPORT		SIA/ RELEASE OF FINANCIAL GUARANTEE			
FLOODPLAIN DEVELOPM		FOUNDATION PERMIT APPROVAL			
ELEVATION CERTIFICATE		X GRADING PERMIT APPROVAL			
CLOMR/LOMR		X SO-19 APPROVAL			
TRAFFIC CIRCULATION L	· · ·	X PAVING PERMIT APPROVAL			
TRAFFIC IMPACT STUDY		GRADING/ PAD CERTIFICATION			
OTHER (SPECIFY)		WORK ORDER APPROVAL			
PRE-DESIGN MEETING?		CLOMR/LOMR			
		FLOODPLAIN DEVELOPMENT PERMIT			
		OTHER (SPECIFY)			
DATE SUBMITTED: 4-17-2019					

ELECTRONIC SUBMITTAL RECEIVED:____

FEE PAID:____





WESTERN PARKING LOT

HYDROLOGIC STUDY SUMMARY:

EXISTING CONDITION:

THE EXISTING DRAINAGE BASIN CONSISTED HALF OF THE EXISTING BUILDING (EX. BASIN 1, 0.22 ACRE) AND ALL THE ASPHALT PARKING AREA WITHIN THE PROJECT SITE (EX. BASIN 2, 0.68 ACRE), TOTAL APPROXIMATELY 0.90 ACRE. THE EXISTING DRAINAGE FOR THE EXISTING BUILDING DIRECTED THROUGH EXISTING ROOF DRAIN UNDER EXISTING CONCRETE SIDEWALK LOCATED NORTH OF THE BUILDING, AND THE RUNOFF SHEET FLOW THROUGH THE ASPHALT PARKING LOT. EXISTING DRAINAGE FOR THE PARKING LOT FLOW FROM SOUTH OF PARKING LOT THROUGH NORTH OF PARKING LOT. ALL RUNOFF FROM THE BUILDING AND ASPHALT PARKING LOT DISCHARGE THROUGH A EXISTING 4" PVC PIPE LOCATED NORTHEAST OF THE SITE UNDER EXISTING SIDEWALK AND CURB & GUTTER ON SAN PABLO STREET ON THE EASTSIDE.

PROPOSED CONDITION:

THE PROPOSED DRAINAGE BASIN AND CONDITION REMAIN THE SAME AS THE EXISTING. DUE TO THE EXISTING 4" PVC PIPE WAS PLUGGED AND STANDING WATER STANDING LOCATED AT THE NORTHEAST CORNER OF THE PARKING LOT, A NEW 24" DOUBLE SIDEWALK CULVERT WILL BE CONSTRUCTED TO REPLACE THE 4" PVC PIPE.

SIDEWALK CULVERT DRAINAGE CAL:

FROM THE 100-YR STORM EVENT CALCULATION SHOWN BELOW, THE PEAK DISCHARGE FROM THE PROJECT SITE IS 4.44 CFS. THE NEW SIDEWALK CULVERT WILL HAVE A 48" OPENING (24" DOUBLE CULVERT) WITH 7.5" OPENING FROM TOP OF METAL GRATE TO FLOWLINE OF THE SIDEWALK CULVERT PER C.O.A STANDARD DETAIL. THE CALCULATION USING BROAD CRESTED WEIR EQUATION SHOWN ON THE WORKSHEET WITH A RESULT OF THE HEADWATER HEIGHT ABOVE CREST IS 0.51 FT, THE OPENING HEIGHT OF THE SIDEWALK CULVERT IS 0.625 FT (7.5"). THEREFORE, THE PROPOSED 24" DOUBLE SIDEWALK CULVERT WILL BE ADEQUATE TO CARRY THE 100 YR RUNOFF FROM THE PROJECT SITE.

100-YR STORM EVENTS HYDROLOGIC CALCULATIONS

	AREA (ACRES)	LAND TREATMENT			NT	100-YR						
BASIN		A (%)	B (%)	C (%)	D (%)	UNIT PEAK DISCHARGE (CFS/AC)	WEIGHTED E (IN)	PEAK DISCHARGE (CFS)	VOLUME 6 HOUR (AC-FT)			
	EXISTING CONDITIONS											
EX. 1	0.22	0.0	0.0	9.0	91.0	4.88	2.26	1.07	0.04			
EX. 2	0.68	0.0	0.0	4.0	96.0	4.96	2.32	3.37	0.13			
TOTALS	0.90			·				4.44	0.17			

Worksheet for Broad Crested Weir - 1

2.06 ft²

2.16 ft/s

5.03 ft

4.00 ft

REFERENCE:

Adjusted Weir Coefficient

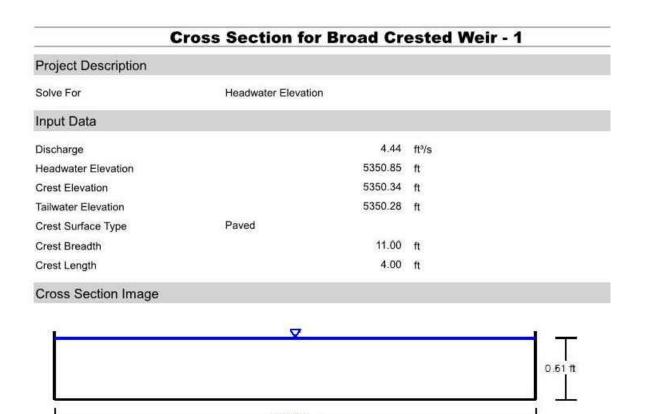
Flow Area

Wetted Perimeter Top Width

Velocity

SECTION 22.2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CIRITERIA CURRENT REVISION, CITY OF ALBUQUERQUE, NEW MEXICO PRECIPITATION ZONES = ZONE 3

Project Description Headwater Elevation Solve For Input Data Discharge 4.44 ft³/s 5350.34 ft Crest Elevation 5350.28 ft Tailwater Elevation Crest Surface Type 11.00 ft Crest Breadth 4.00 ft Crest Length Results Headwater Elevation 5350.85 ft 0.51 ft Headwater Height Above Crest Tailwater Height Above Crest -0.06 ft 3.01 US Weir Coefficient Submergence Factor 1.00



MANAGEMENT OF THE STORM WATER QUALITY VOLUME (SWQV):

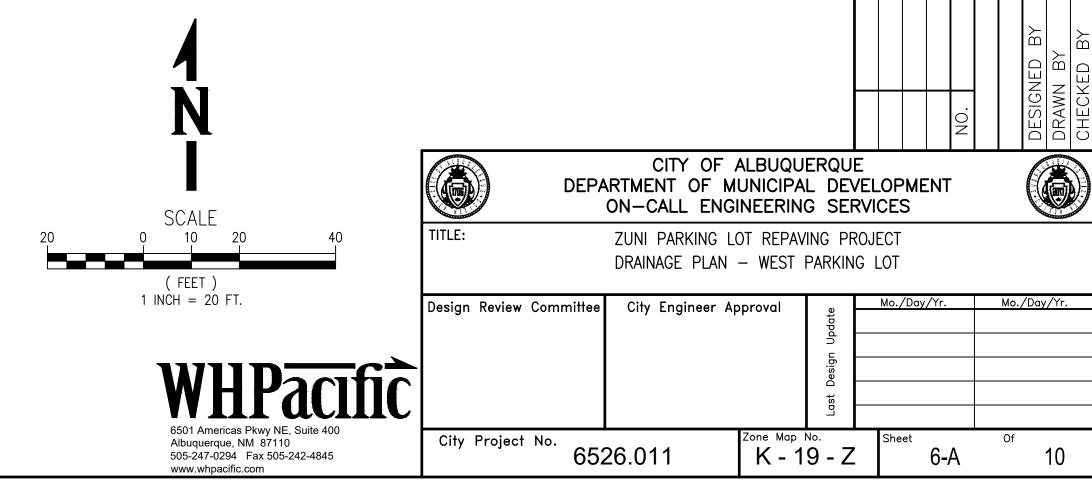
PAYMENT IN LIEU (AMOUNT =0.26" X REDEVELOPED IMPERVIOUS ARE X \$8/CF)

 $AMOUNT = 0.26"/12' \times 25,275 \text{ SF } \times \$8/\text{CF} = \$4,380$

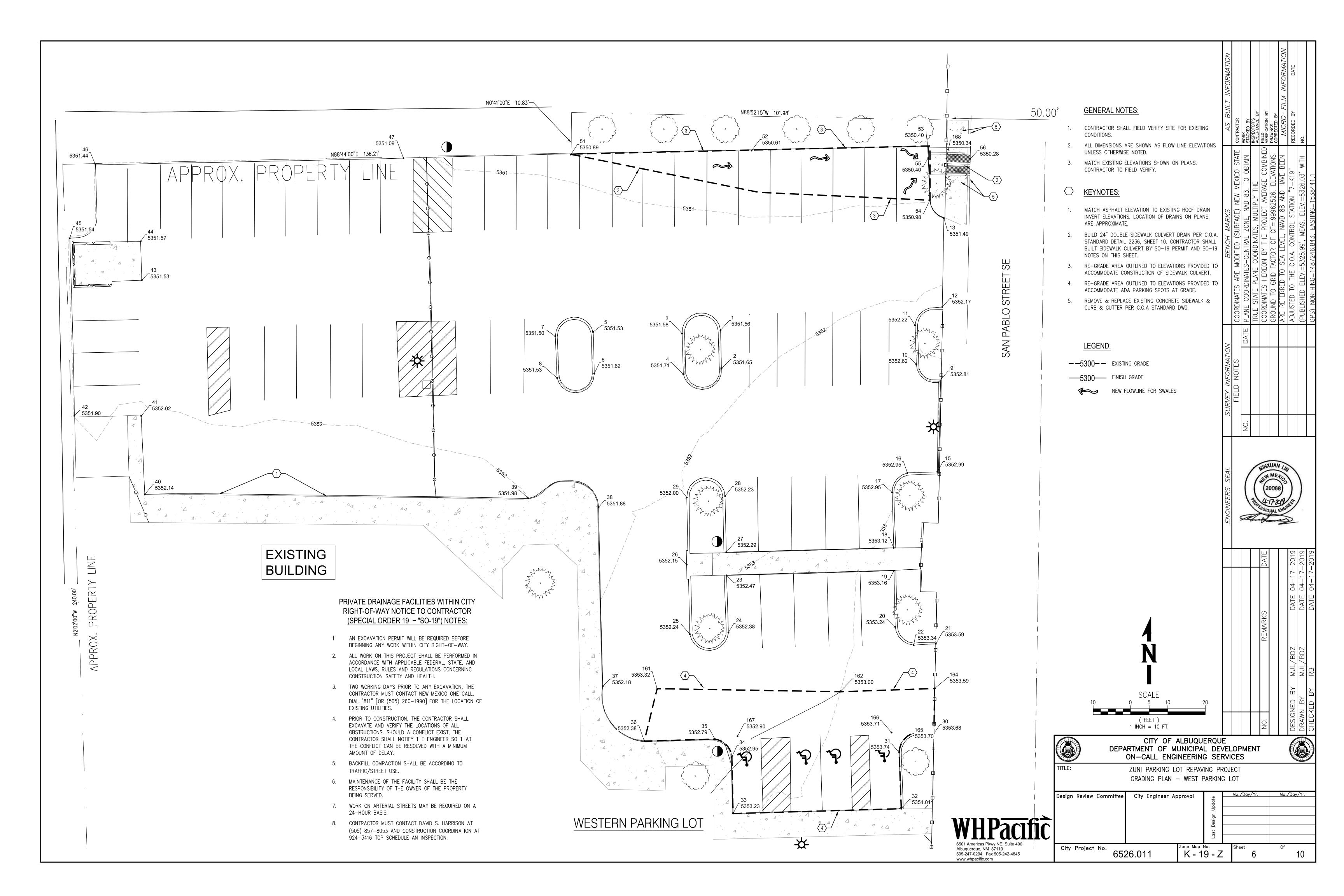
SWQV = 0.26" X REDEVELOPED IMPERVIOUS AREA

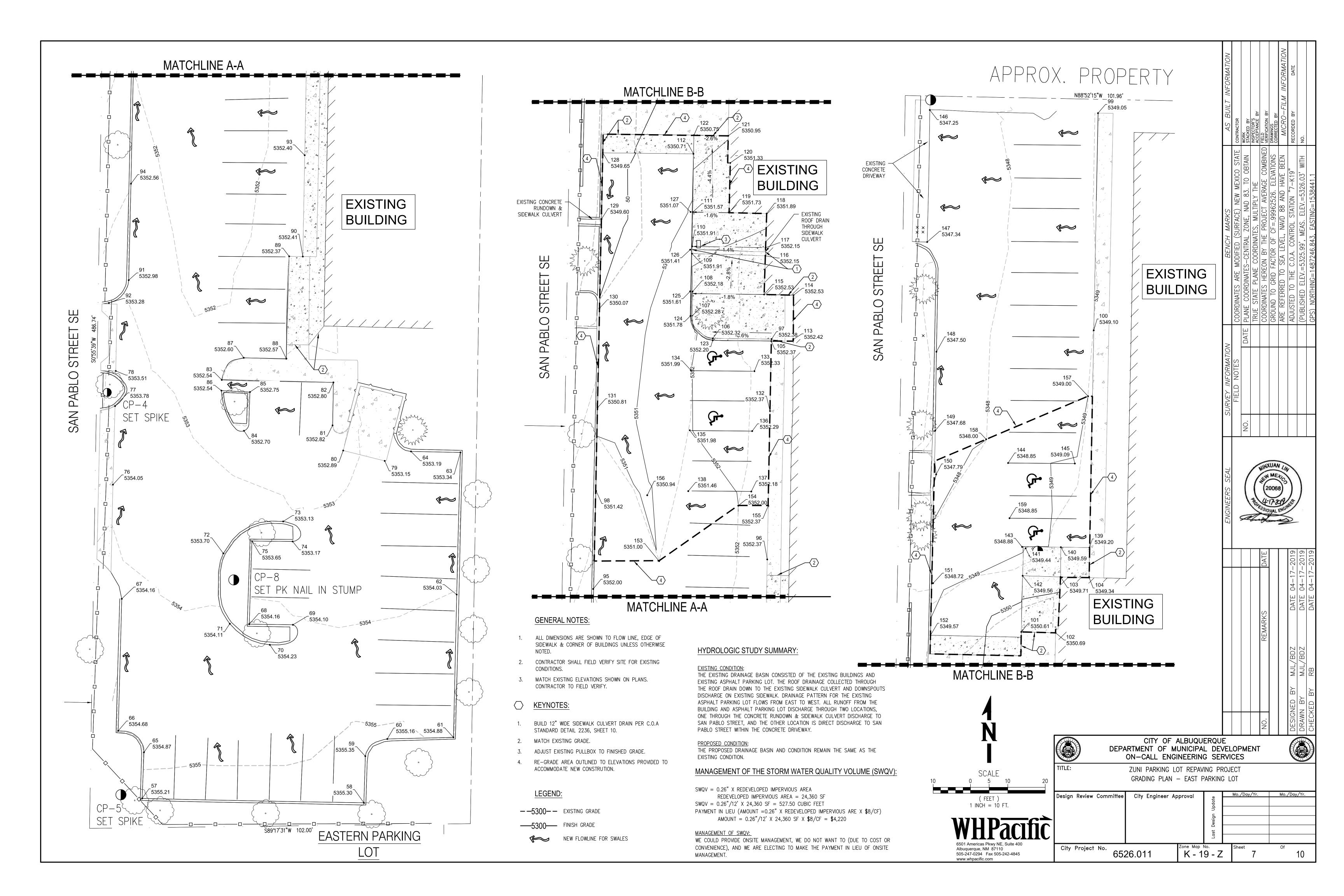
SWQV = 0.26"/12' X 25,275 SF = 547.50 CUBIC FEET

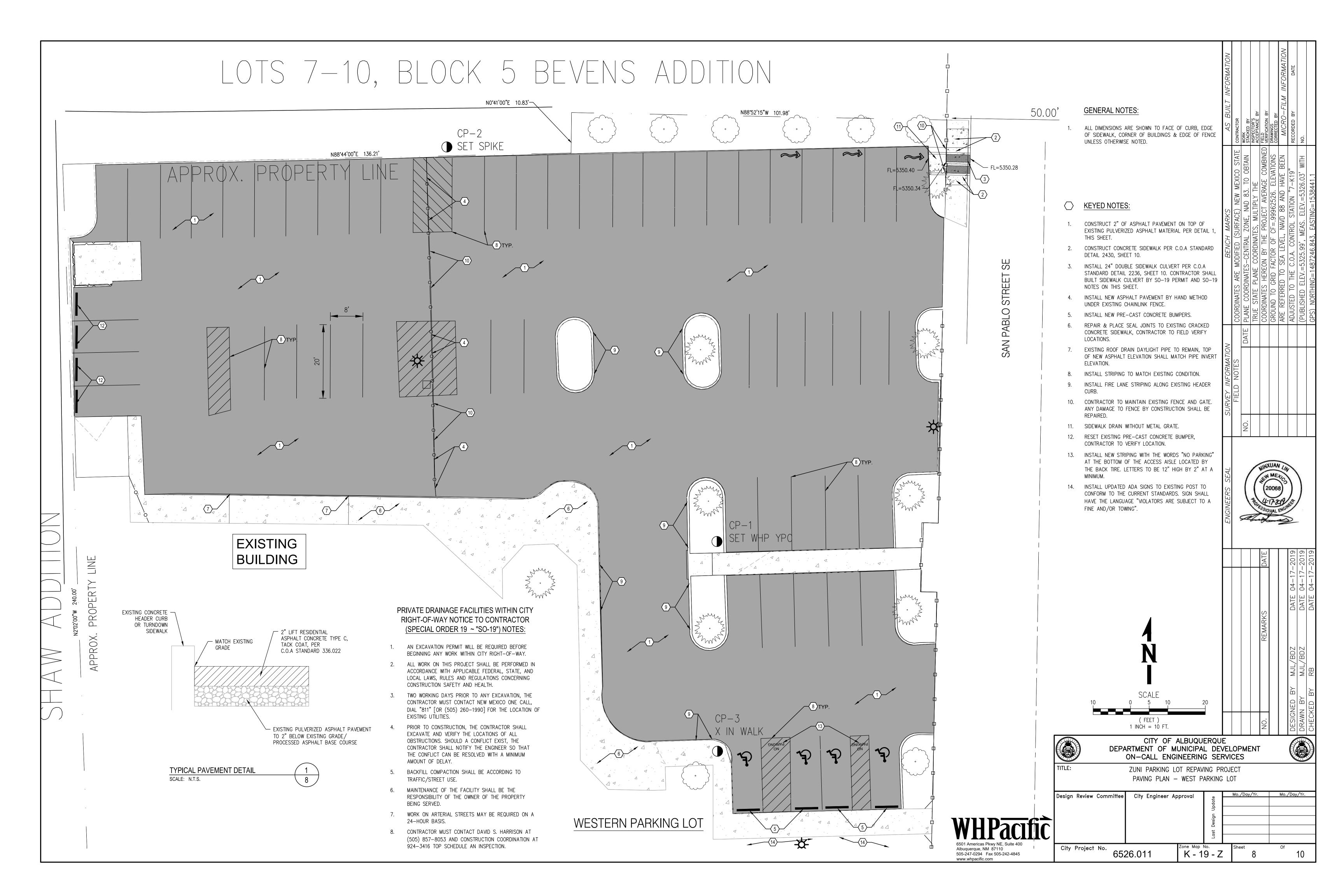
REDEVELOPED IMPERVIOUS AREA = 25,275 SF

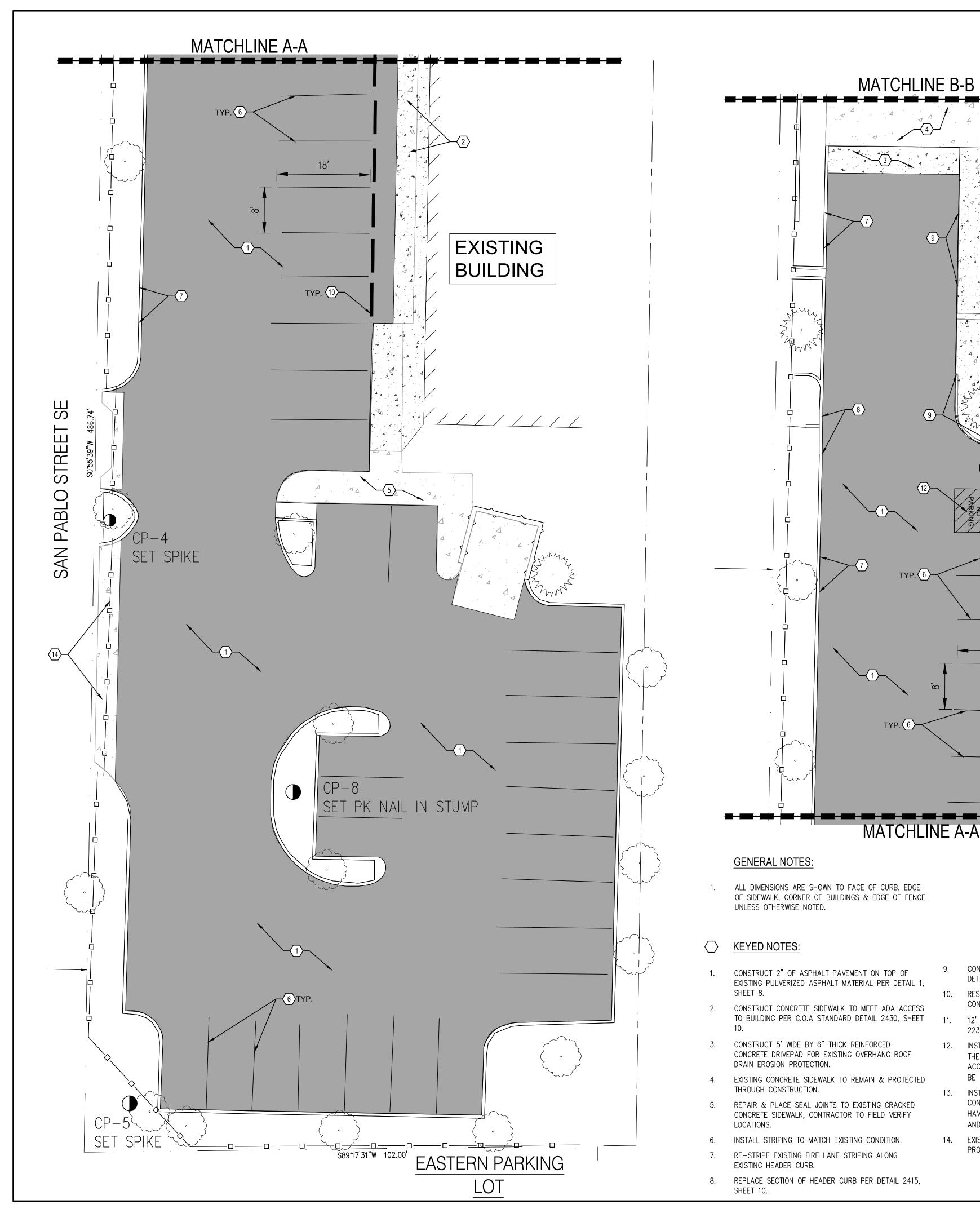


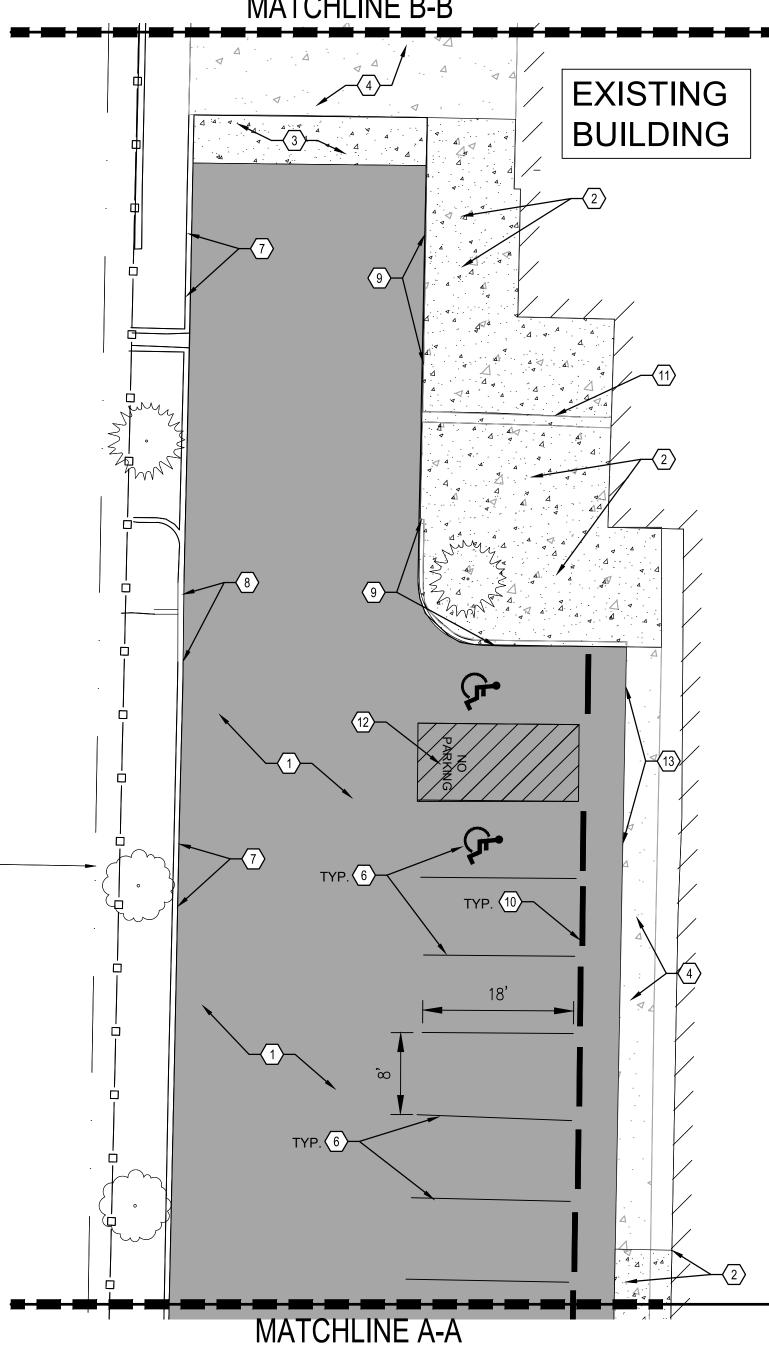
MINFORMATION D NOTES D NOTES











- CONSTRUCT NEW TURNED DOWN SIDEWALK EDGE PER DETAIL 1, SHEET 10.
- 10. RESET EXISTING PRE-CAST CONCRETE BUMPER, CONTRACTOR TO VERIFY LOCATION.
- 12' SIDEWALK CULVERT PER C.O.A STANDARD DETAIL 2236, SHEET 10.
- 12. INSTALL NEW ADA STRIPING WITH CROSS HATCHING AND THE WORDS "NO PARKING" AT THE BOTTOM OF THE ACCESS AISLE LOCATED BY THE BACK TIRE. LETTERS TO BE 12" HIGH BY 2" AT A MINIMUM.
- 13. INSTALL NEW ADA SIGNS ON EXISTING POST TO CONFORM TO THE CURRENT STANDARDS. SIGNS SHALL HAVE LANGUAGE "VIOLATORS ARE SUBJECT TO A FINE AND/OR TOWING.
- 14. EXISTING CONCRETE DRIVEWAY & GATE TO REMAIN & PROTECTED THROUGH CONSTRUCTION.

