

# ADMINISTRATIVE AMENDMENT

FILE #: \_\_\_\_\_ PROJECT #: \_\_\_\_\_

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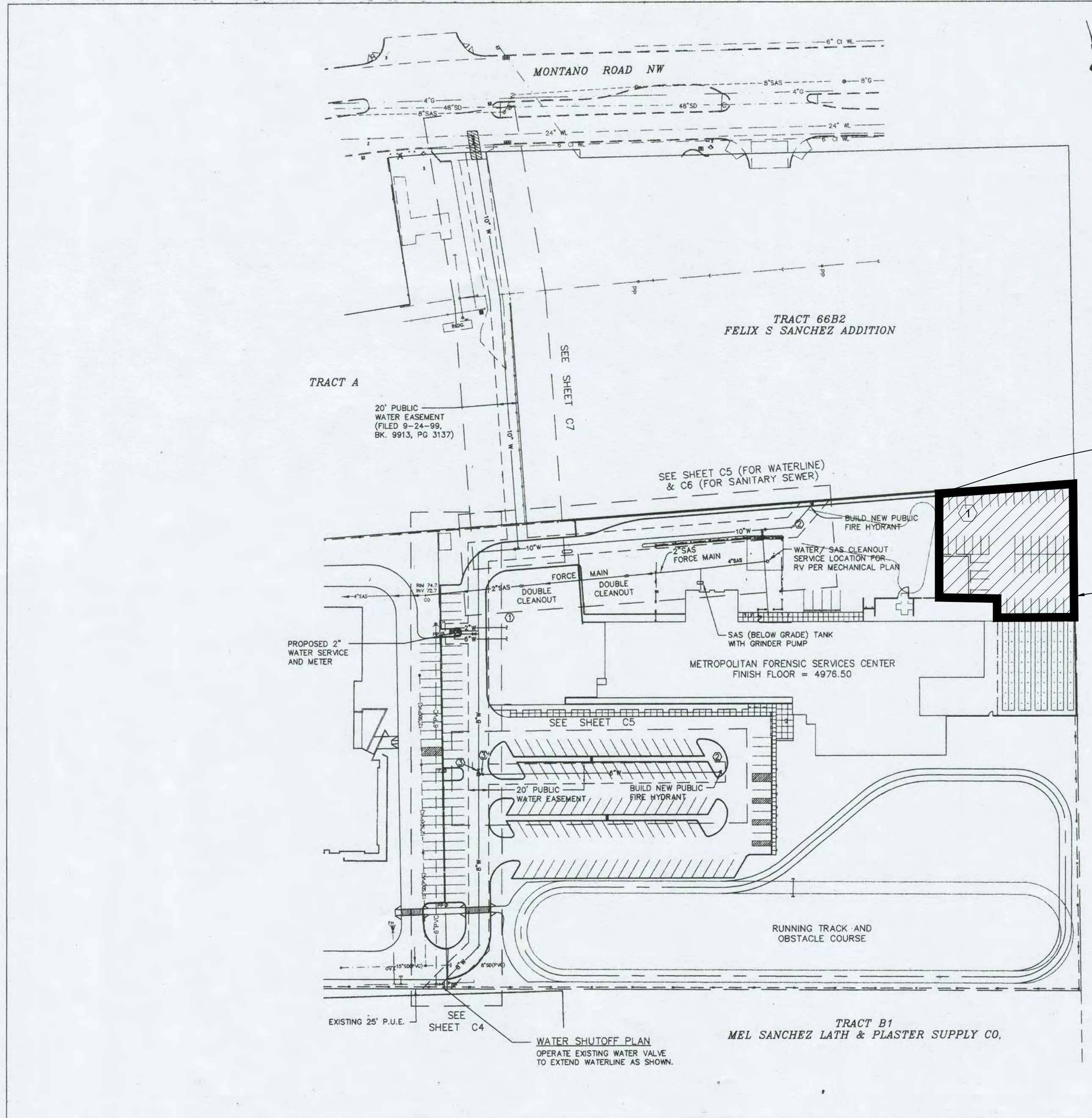
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**APPROVED BY**

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**DATE**

Plotted: 6/2/2022 2:43:35 PM, By: EdEdging, Scott  
 H:\p0\8314022.01 - CABO Crime Lab\10 CAD & BIM\10.1 AutoCAD\Sheet Set\AA SITE PLAN.dwg  
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- CONSTRUCTION NOTES**
- NEW 2" WATER SERVICE PER COA STD DWG NOS. 2363 AND 2367.
  - NEW 4" BURY FIRE HYDRANTS PER COA STD DWG NO. 2340.
  - NEW 8" GATE VALVE AND TYPE 'A' VALVE BOX.

**ISAACSON & ARFMAN, P.A.**  
 Consulting Engineering Associates  
 120 Alvarado Street N.E.  
 Albuquerque, New Mexico 87102

CITY OF ALBUQUERQUE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DEVELOPMENT GROUP

TITLE: METROPOLITAN FORENSIC SERVICES CENTER  
 WATER & SANITARY SEWER PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
NOV 29 2022	[Signature]		

PROJECT 4836.91 DRAWING C3 MAP NO. F-15-Z SHEET 11 OF 207

PROJECT #: 1002809

OWNER NAME: CITY OF ALBUQUERQUE  
 OWNER ADDRESS: PO BOX 1293, ALBUQUERQUE NM 87103-2248  
 UPC: 101506112520231150  
 TAX YEAR: 2020  
 TAX DISTRICT: A1AM  
 LEGAL DESCRIPTION: TRACT A PLAT OF DIVISION OF LAND OF MEL SANCHEZ & LATH & PLASTER SUPPLY CO  
 PROPERTY CLASS: C  
 DOCUMENT NUMBER: 8998866 111389  
 ACRES: 12.24

CITY ZONING AND SERVICES  
 IDO ZONE DISTRICT: NR-SU  
 IDO DISTRICT DEFINITION: SENSITIVE USE  
 OLD ZONE DESIGNATION: SU-1  
 OLD ZONING DESCRIPTION: POLICE SUBSTATION & CENTRAL FAC OR SU-2 NFT OD  
 LAND USE: 17 | COMMUNITY  
 LOT: A  
 BLOCK: 0000 S  
 SUBDIVISION: SANCHEZ-MEL & LATH & PLASTER SUPPLY COMPANY  
 POLICE BEAT: 239  
 AREA COMMAND: VALLEY  
 JURISDICTION: ALBUQUERQUE  
 IDO ZONE ATLAS PAGE: F15  
 CITY NEIGHBORHOOD ASSOCIATION: GREATER GARDNER & MONKBRIDGE NA

**SHEET KEYED NOTES**

- SHADE STRUCTURE

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE

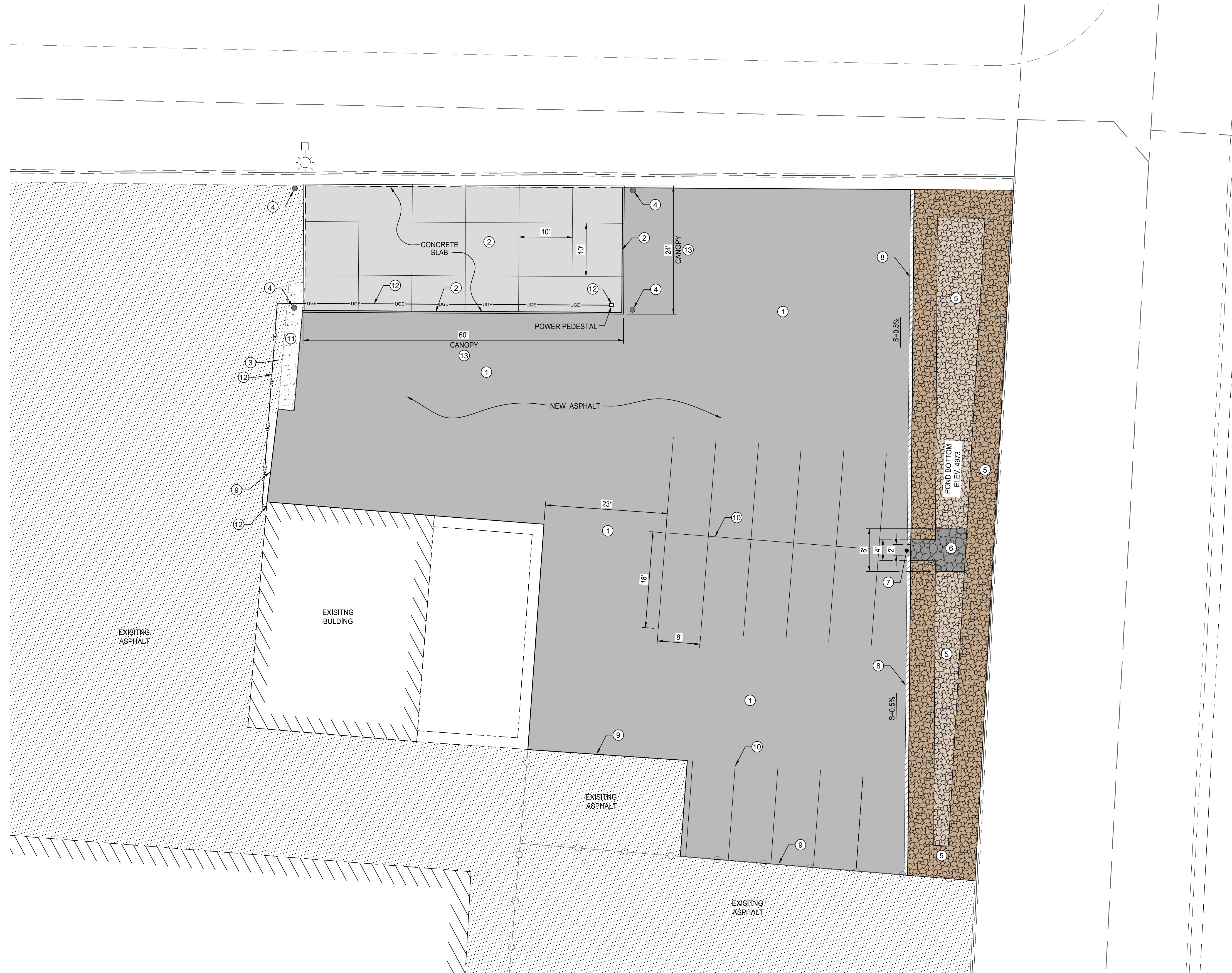


Designed By: **HUITT-ZOLLARS**  
 Huit-Zollars, Inc. Albuquerque  
 6501 Americas Pkwy NE, Suite 550  
 Albuquerque, New Mexico 87110  
 Phone (505) 883-8114 Fax (505) 883-5022

**MEVACON, LLC**  
 APD CRIME LAB  
 TITLE: ADMINISTRATIVE AMENDMENT  
 SITE PLAN

Design Review Committee	City Engineer	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. - Zone Map No. F-15-Z Sheet 1 Of 1



# SITE PLAN

## KEYED CONSTRUCTION NOTES

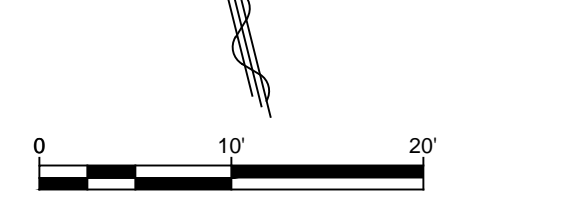
- ① CONSTRUCT 3" SP-III ASPHALT PAVEMENT OVER 4" AGGREGATE BASE COURSE OVER 12" PREPARED SUBGRADE.
- ② CONSTRUCT CARPORT FOUNDATION AND CANOPY
- ③ REMOVE EXISTING FENCE
- ④ INSTALL BOLLARDS, PAINT YELLOW
- ⑤ 1" BROWN TONED SUB-ANGULAR LANDSCAPE ROCK, "MOUNTAIN BROW", OAE, OVER 4 OZ NON-WOVEN FILTER FABRIC (6" TURN DOWN WITH 3" OVERLAP)
- ⑥ 6" DIA ROCK, 12" DEEP
- ⑦ 2' WIDE OPENING
- ⑧ INSTALL ASPHALT CURB PER ABCVUA STD DWG 2415B.
- ⑨ CONSTRUCT EX/NEW ASPHALT PAVEMENT JOINT
- ⑩ 4" SOLID WHITE PAVEMENT MARKING
- ⑪ EXIST. CONCRETE TO REMAIN IN PLACE
- ⑫ INSTALL POWER PEDESTAL FOR MOBILE CRIME LAB. INSTALL PANEL VE TO MARKED OUT LOCATION ON NORTH SIDE OF PROPERTY. PENETRATE THROUGH MASONRY WALL AND TRENCH OVER 100FT FOR UNDERGROUND RACEWAY TO PEDESTAL. INSTALL NEW 120/240 VOLT 50 AMP PEDESTAL WITH 20 AMP CONVENIENCE GFCI RECEPTACLE. PROVIDE CORRECT 50 AMP RECEPTACLE TO MATCH MOBILE UNIT CORD & PLUG. VERIFY VOLTAGE AND OPERATION.
- ⑬ CANOPY DETAILS. SEE SHEETS 6 - 9

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORKS STAMPED BY	DATE
INSPECTOR'S FIELD CHARGE BY	DATE
FIELD VERIFICATION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
PREPARED BY	DATE
NO.	

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	BY
NO.	DATE

ENGINEER'S SEAL



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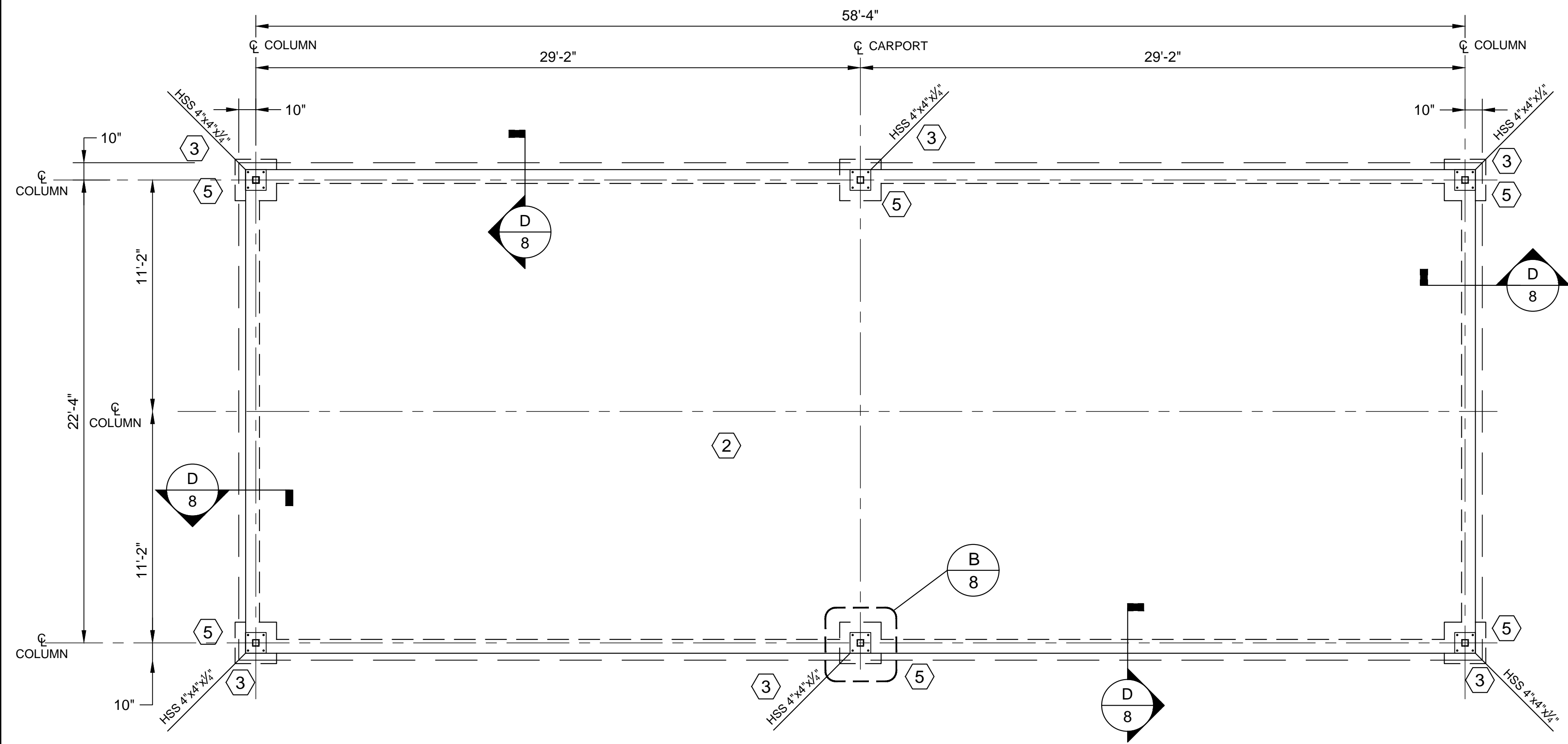
TITLE:

## SITE PLAN

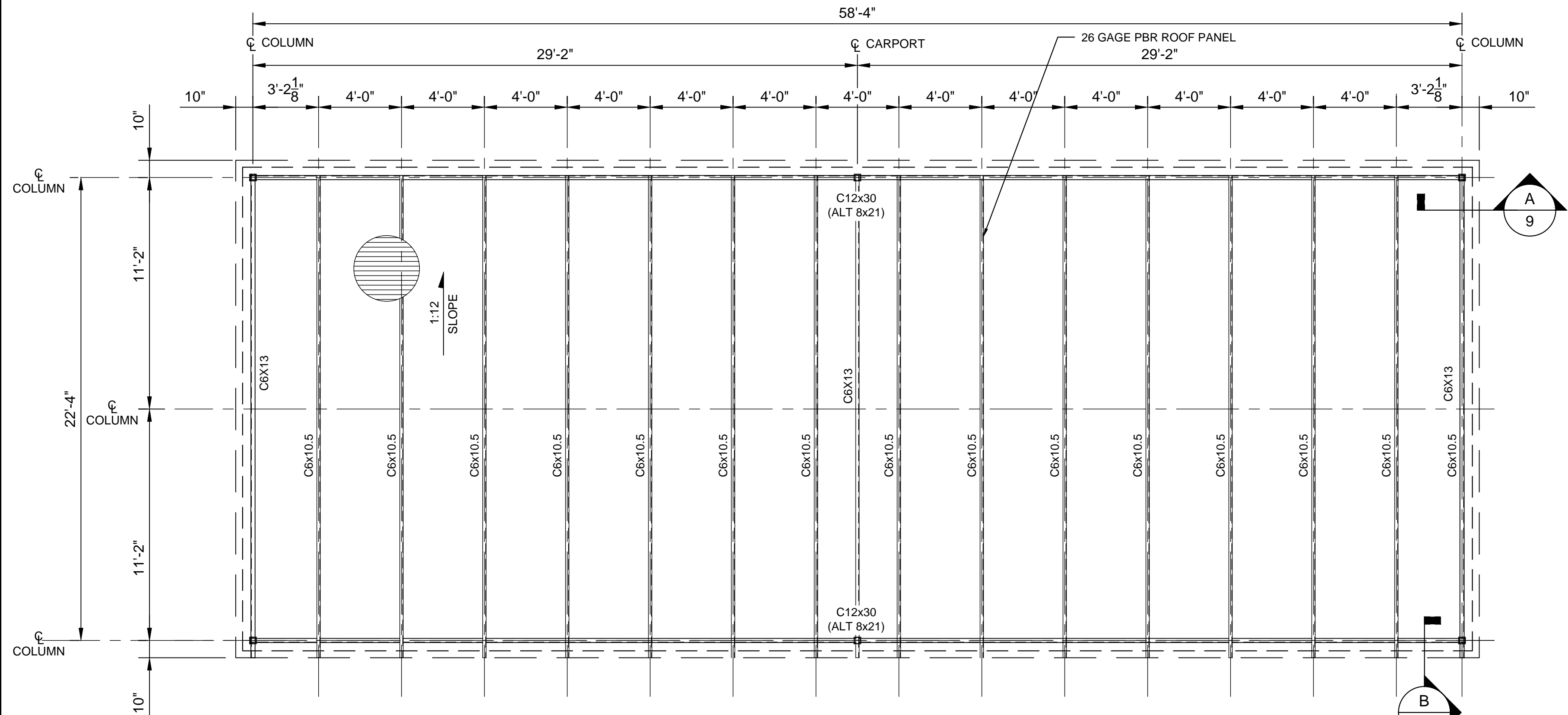
Design Review Committee	City Engineer	Mo./Day/Yr.	

Last Update

City Project No.	Zone Map No.	Sheet	Of
	F-16-Z	5	11



**A** FOUNDATION PLAN  
 SCALE: 1/4" = 1'-0"



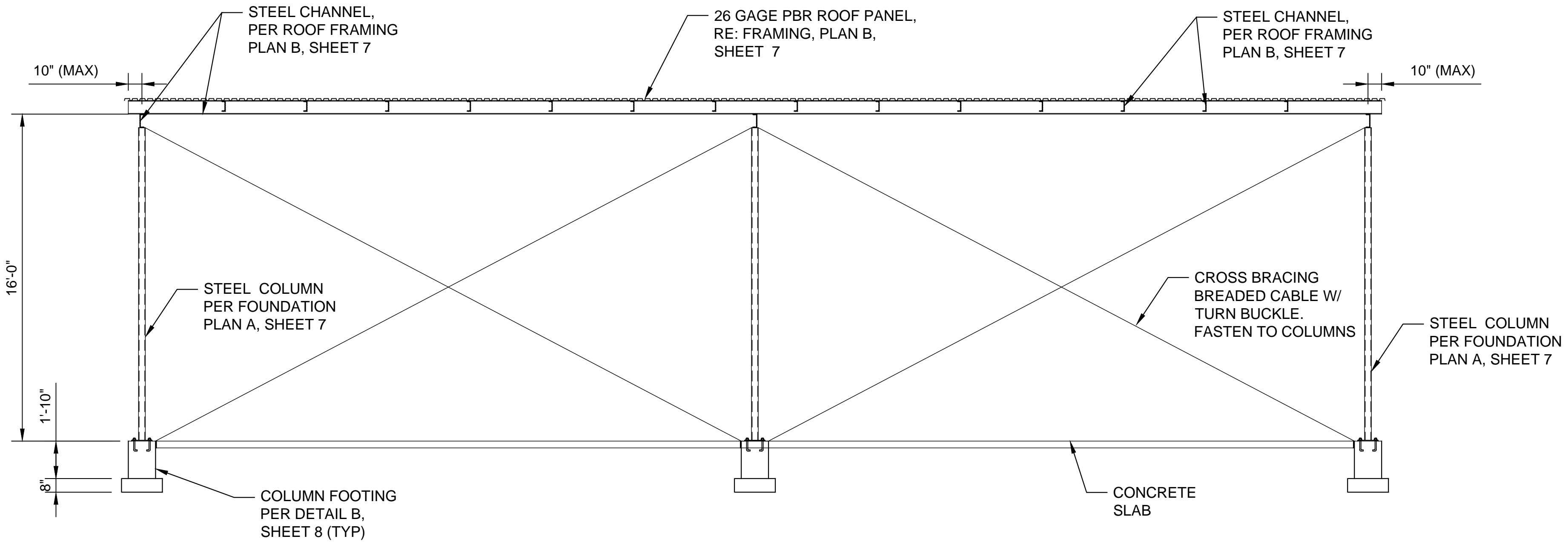
**B** ROOF FRAMING PLAN  
 SCALE: 1/4" = 1'-0"

**KEYED NOTES**

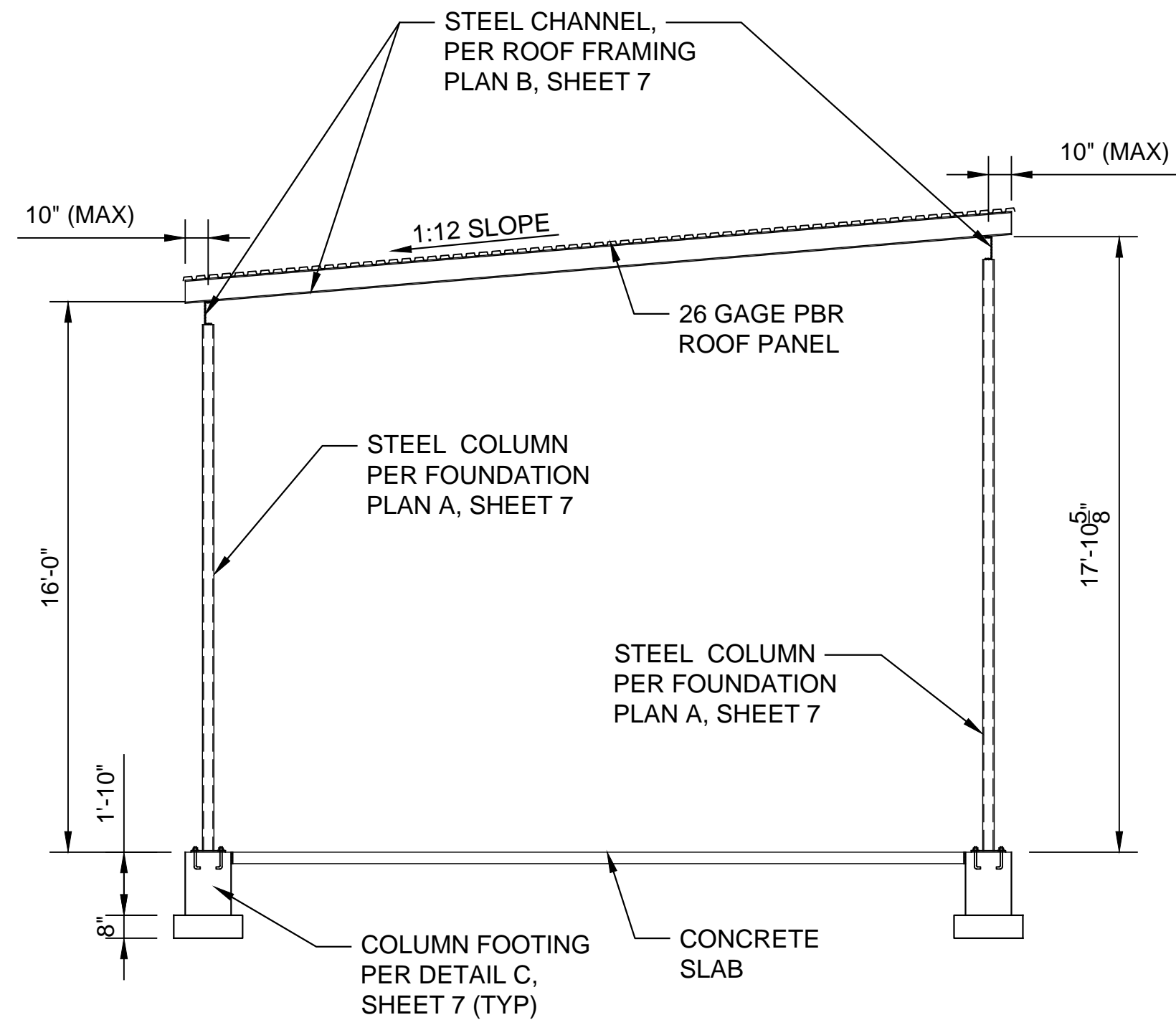
- 1 HSS 4"x4"x1/4" TUBE COLUMN. RE: DETAIL A/ SHEET 8
- 2 5" CONCRETE SLAB ON GRADE, REINFORCE WITH WWF 4x4, EACH WAY
- 3 BASE PLATE 1/2"x1'-0"x1'-0", RE: DETAIL C/ SHEET 8
- 4 PROVIDE (24) - 3/4" DIA. ANCHOR BOLTS FOR BASE PLATES TO PILASTERS
- 5 PROVIDE A 3'-6"x3'-6"x0'-8 PAD WITH 3- #5 EACH WAY BOTTOM REINFORCEMENT

AS BUILT INFORMATION		CONTRACTOR	DATE
BENCH MARKS		WORK STAMPED BY	DATE
SURVEY INFORMATION		INSPECTOR'S FIELD CHECK BY	DATE
FIELD NOTES		FIELD CHANGE BY	DATE
NO.		VERIFICATION BY	DATE
		CORRECTED BY	DATE
		MICRO-FILM INFORMATION	DATE
		PREPARED BY	NO.
ENGINEER'S SEAL			
NO.	DATE	REVISIONS	BY
		DESIGN	
		DESIGNED BY: LRT	DATE: JAN. 19, 2022
		DRAWN BY: LRT	DATE: JAN. 19, 2022
		DWG NAME: 69_STR PLANS & SEC.dwg	PROJ #: R314022.01
		CHECKED BY: SAE	DATE: JAN. 19, 2022
Designed By: <b>HUITT-ZOLLARS</b> Huitt-Zollars, Inc. Albuquerque 6501 Americas Pkwy NE, Suite 550 Albuquerque, New Mexico 87110 Phone (505) 883-8114 Fax (505) 883-5022			
<b>MEVACON, LLC</b> <b>APD CRIME LAB</b>			
<b>TITLE:</b> <b>ROOF &amp; FOUNDATION PLAN</b>			
Design Review Committee	City Engineer	Mo,Day/Yr.	Mo,Day/Yr.
City Project No.		Zone Map No.	Sheet Of
		F-16-Z	7 Of 11

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 Plotted: 1/19/2022 11:43:45 AM, Plotted By: TAdona, Linda  
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**A** FRAMING PLAN  
 SCALE: 1/4" = 1'-0"



**B** FRAMING SECTION  
 SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

- 1. SEE SHEET 6 FOR GENERAL STRUCTURAL NOTES AND GENERAL SHEET NOTES.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL									
CONTRACTOR	DATE	NO.	DATE	NO.	BY	NO.	DATE								
WORK DRAWN BY	DATE	NO.	DATE	NO.	BY	NO.	DATE								
INSPECTOR'S	DATE	NO.	DATE	NO.	BY	NO.	DATE								
FIELD CHANGE BY	DATE	NO.	DATE	NO.	BY	NO.	DATE								
VERIFICATION BY	DATE	NO.	DATE	NO.	BY	NO.	DATE								
CORRECTED BY	DATE	NO.	DATE	NO.	BY	NO.	DATE								
MICRO-FILM INFORMATION															
PREPARED BY	DATE														
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**APD CRIME LAB**

**STRUCTURAL DETAILS**

Design Review Committee	City Engineer	Mo./Day/Yr.	
City Project No.		Zone Map No.	Sheet Of
		F-16-Z	9 Of 11

**PROPERTY**  
 THIS SITE IS A DEVELOPED APD SUB-STATION AND CENTRAL FACILITY LOCATED WITHIN THE CITY OF ALBUQUERQUE (ZONE MAP F-15). THE SITE IS BOUND TO THE EAST BY THE AT&SF RAILROAD, TO THE NORTH AND SOUTH BY COMMERCIAL REALESTATE AND TO THE WEST BY SECOND STREET.

**FLOOD HAZARD**  
 PER THE FEMA MAP NUMBER 35001C0119G DATED SEPTEMBER 26, 2008 SHOWS THE SITE IS NOT LOCATED WITHIN FLOOD HAZARD ZONE X.

**MASTER DRAINAGE PLAN**  
 PER THE APPROVED DRAINAGE MASTER PLAN PREPARED BY JMA, INC (NOVEMBER 1991), THE ALLOWABLE DISCHARGE FROM THE 13.3 ACRE SITE IS 5 CFS. A CITY OF ALBUQUERQUE PROJECT INSTALLED A 15-INCH STORM DRAIN TO THE ALAMEDA DRAIN TO THE WEST. A 10-INCH ORIFICE PLATE RESTRICTS THE DISCHARGE FROM THE SITE TO THE APPROVED RATE OF 5 CFS.

THIS PLAN ALSO REFERENCES APD FORENSIC LAB MODULAR BUILDING APPROVED GRADING AND DRAINAGE PLAN PREPARED BY ISAACSON & ARFMAN, P.A. DATED MARCH 11, 2011.

**PROPOSED IMPROVEMENTS**  
 THIS PROJECT CONVERTS AN EXISTING VEHICLE STORAGE LOT CONSTRUCTED OF CRUSHER FINES TO AN ASPHALT PAVEMENT VEHICLE STORAGE LOT PLUS CONVERTS APPROXIMATELY 5 PARKING STALLS TO COVERED PARKING.

**PROPOSED DRAINAGE CONDITIONS**  
 PROJECT IMPROVEMENTS MAINTAIN DRAINAGE PATTERNS AND FLOWS IN ACCORDANCE WITH THE EXISTING APPROVED DRAINAGE PLAN. THE NEW PAVEMENTS DISCHARGE INTO A NEW POND WHICH HAS ADEQUATE CAPACITY TO STORE TWICE THE 100-YEAR 6-HOUR STORM EVENT. POND REQUIREMENT IS 2 TIMES THE 100-YEAR 6-HOUR STORM IS 4.706 CUBIC FEET. POND VOLUME IS 4.731 CUBIC FEET AND ANNUDATES THE NEW VEHICLE STORAGE PARKING LOT WITH 2-INCHES OF STORM WATER.

THE NEW PARKING AREA DISCHARGES INTO POND 1 AT ANALYSIS POINT 1 AT A FLOW OF 1.36 CFS. A CONCRETE RUNDOWN 4' WIDE CONCRETE VALLEY GUTTER EXTENDS FROM THE ASPHALT PAVEMENT TO THE POND 1 BOTTOM. POND 1 DOES NOT OUTFALL.

**STORM WATER QUALITY**  
 WATER QUALITY REQUIREMENTS TREATING THE PAVED AREAS.  
 VOLUME = 11,208 SF \* 0.26IN/12 = 243 CUBIC FEET

A STORM WATER QUALITY POND IS PROVIDED EXCEEDING 243 CUBIC FT.

**BENCHMARK**  
 A STANDARD NMDOT BRASS CAP LOCATED ON THE NORTH MEDIAN NOSE AT INTERSECTION OF 2ND ST. AND MONTANO ROAD STAMPED STA.NM47-8' ELEVATION= 4976.43

**HYDROLOGY**

**Basin 100** AREA = 0.3 ac.

NOAA Atlas 14  
 Latitude 35.2649  
 Longitude -106.6857

PRECIPITATION:  
 360 = 2.3 in.  
 1440 = 3.21 in.  
 10day = 4.33 in.

EXCESS PRECIPITATION: PEAK DISCHARGE:

TREATMENT A	0.62 in.	1.56 cfs/ac.
TREATMENT B	0.8 in.	2.28 cfs/ac.
TREATMENT C	1.03 in.	3.14 cfs/ac.
TREATMENT D	2.33 in.	4.70 cfs/ac.

EXISTING CONDITIONS: PROPOSED CONDITIONS:

TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.3045 ac.	0.0472 ac.
TREATMENT D	0 ac.	0.2573 ac.

EXISTING EXCESS PRECIPITATION:  
 Weighted E = ( 0.62 x( 0.00 )+( 0.80 x( 0.00 )+( 1.03 x( 0.30 )+( 2.33 x( 0.00 ) / 1.03 in.  
 V100-360 = ( 1.03 x( 0.30 ) / 12 = 0.026136 ac-ft = 1138 cf

EXISTING PEAK DISCHARGE:  
 Q100 = ( 1.56 x( 0.00 )+( 2.28 x( 0.00 )+( 3.14 x( 0.30 )+( 4.70 x( 0.00 )= 0.96 cfs

PROPOSED EXCESS PRECIPITATION:  
 Weighted E = ( 0.62 x( 0.00 )+( 0.80 x( 0.00 )+( 1.03 x( 0.05 )+( 2.33 x( 0.26 ) / 2.13 in.  
 V100-360 = ( 2.13 x( 0.30 ) / 12.0 = 0.054010 ac-ft = 2353 cf

V100-1440 = ( 0.05 )+( 0.26 ) x( 3.21 - 2.30 ) / 12 = 0.073522 ac-ft = 3203 cf

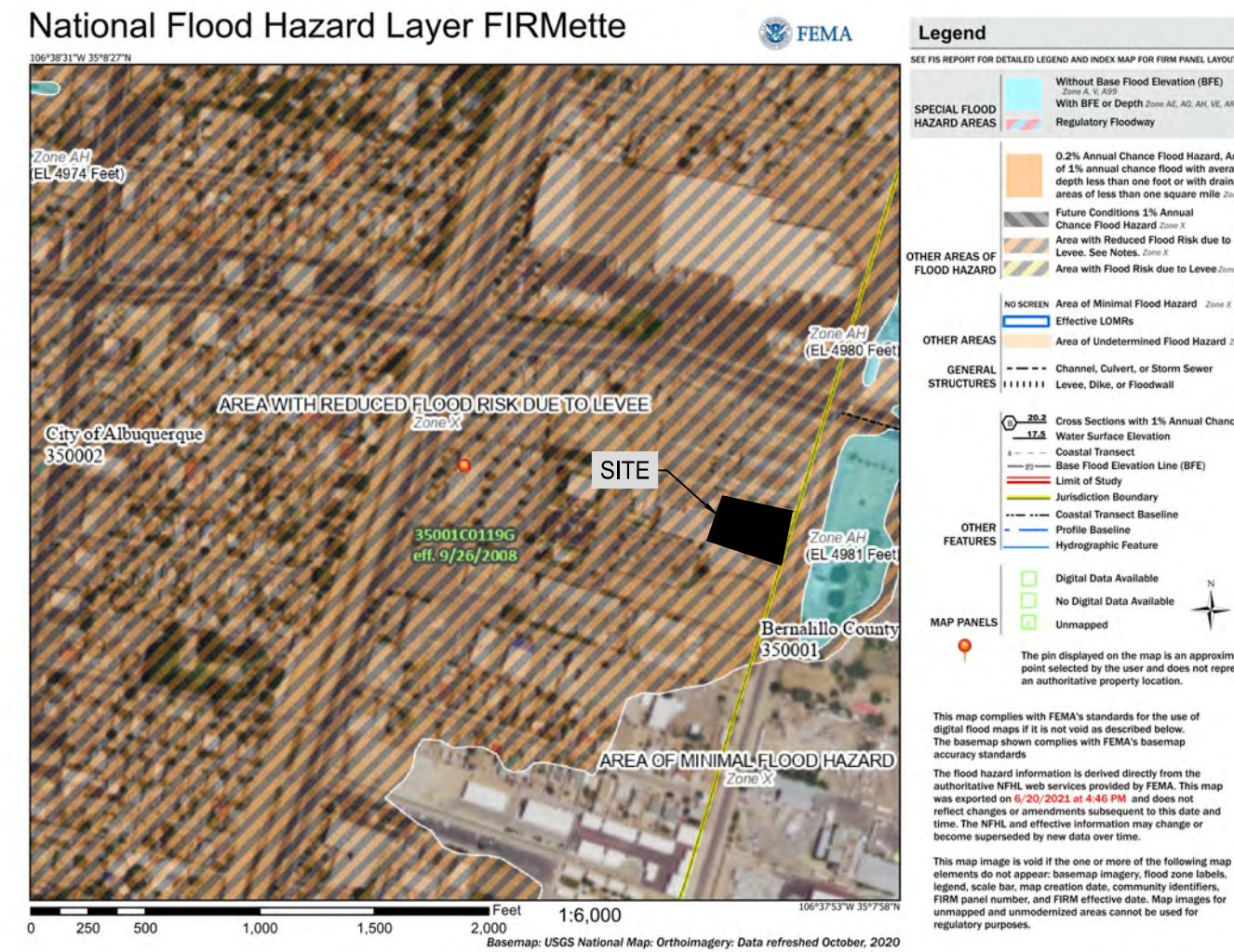
V100-10day = ( 0.05 )+( 0.26 ) x( 4.33 - 2.30 ) / 12 = 0.097537 ac-ft = 4249 cf

PROPOSED PEAK DISCHARGE:  
 Q100 = ( 1.56 x( 0.00 )+( 2.28 x( 0.00 )+( 3.14 x( 0.05 )+( 4.70 x( 0.26 )= 1.36 cfs

**RESULTS**

1.36 - 0.96 = 0.40 cfs	Increase in peak discharge
2353 - 1138 = 1,214 cf	Ponding Requirement

**FIRMETTE**



**POND CALCULATIONS**

5320 Second Street

7-Jun-22  
 pondvol.xls

Elevation	Area	Average Area	Volume	Accumulative Volume
	sf	sf	Cu-Ft	Cu-Ft
4971.0	150	350	350.000	350.000
4972.0	550	783	782.500	1132.500
4973.0	1015	1281	1280.500	2063.000
4974.0	1546	2669	2668.800	4731.800
4974.6	7350			

Worksheet for Rectangular Channel - 1

Input Data		Results
Channel Slope	0.013	1.00 ft/s
Channel Depth	0.0000 ft	0.58 ft
Bottom Width	0.00 ft	4.00 ft
Flow Area		1.60 ft²
Wetted Perimeter		4.00 ft
Hydraulic Radius		0.40 ft
Top Width		4.00 ft
Critical Depth		0.81 ft
Critical Slope	0.0000 ft/s	0.58 ft/s
Velocity	0.58 ft/s	1.00 ft/s
Velocity Head	1.36 ft	1.36 ft
Specific Energy	1.36 ft	1.36 ft
Froude Number	0.02	
Flow Type	Subcritical	
GVF Input Data		
Channel Depth	0.00 ft	
Length	0.00 ft	
Number of Steps	0	
GVF Output Data		
Upstream Depth	0.00 ft	
Profile Description	0.00 ft	
Downstream Velocity	0.58 ft/s	
Upstream Velocity	0.58 ft/s	
Channel Depth	0.00 ft	
Critical Depth	0.81 ft	
Channel Slope	0.0000 ft/s	
Critical Slope	0.0000 ft/s	

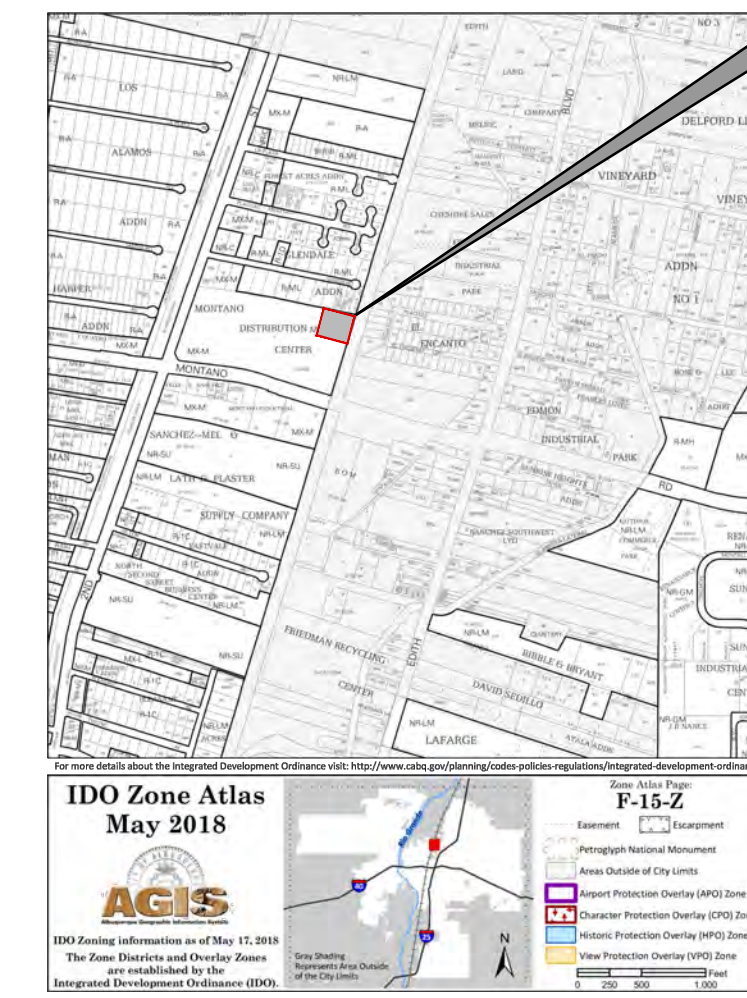
**SURVEY**

GRADING PLAN IS BASED ON THE ENGINEER'S CERTIFICATION OF THE METROPOLITAN FORENSIC SERVICES CENTER GRADING PLAN PREPARED BY SCOTT MCGEE, NMPE NO 10519, DATED 3/21/02.

AREA OF DISTURBANCE IS 13,624 SF

AN EROSION SEDIMENT CONTROL PLAN IS NOT REQUIRED. CONCRETE VALLEY GUTTER CAPACITY

**ZONE ATLAS F-15-Z**



**CONSTRUCTION NOTES**

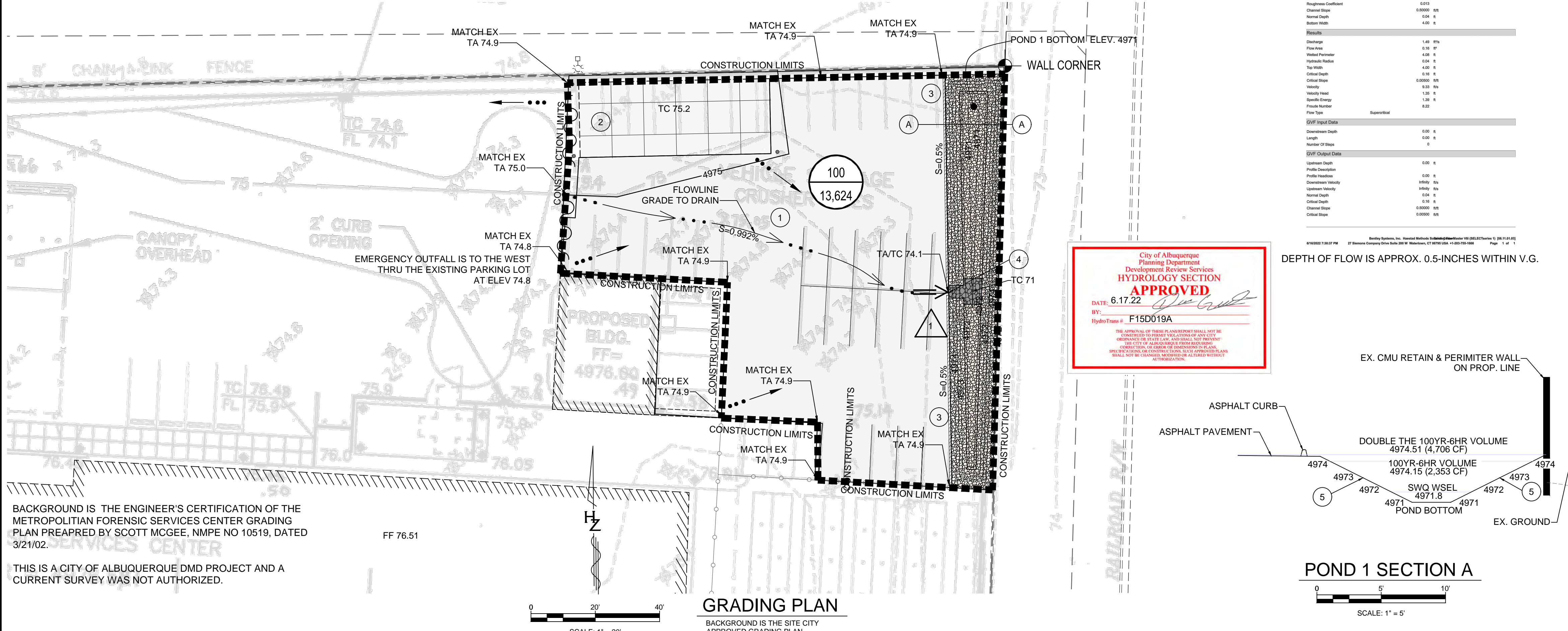
- 3-INCH ASPHALT PAVEMENT OVER PREPARED SG.
- 6-INCH CONCRETE CONCRETE - COVERED PARKING.
- ASPHALT CURB.
- CONCRETE VALLEY - 4' WIDE COA STD DWG 2422.
- 2-INCH ANGULAR ROCK - 4-INCH DEEP OVER WOVEN FILTER FABRIC

**LEGEND**

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- BASIN BOUNDARY
- DISCHARGE LOCATION
- FLOW DIRECTION
- GRADE BREAK
- LIMITS OF DISTURBANCE
- BASIN ID
- AREA (SF)
- ANALYSIS POINT



DEPTH OF FLOW IS APPROX. 0.5-INCHES WITHIN V.G.



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TITLE: GRADING PLAN	
Design Review Committee	City Engineer
City Project No.	Zone Map No.
-	F-15-Z
Sheet	Of
4	12

AS BUILT INFORMATION		
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DWG NAME: 4 GRADING PLAN RZ.dwg	PROJ. #: 8334022.01	
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