CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



January 31, 2023

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

RE: Sunport Cell Phone Parking Lot

2200 Sunport Blvd. SE Grading & Drainage Plans

Engineer's Stamp Date: 1/25/2023 Hydrology File: M16D024C

Dear Mr. Lin:

PO Box 1293 Bas

Based upon the information provided in your submittal received 1/26/2023, the Grading and Drainage Plans are approved for Grading Permit and Paving Permit. Please place this stamp approved Grading & Drainage Plan to the Grading and Paving Permitting set of construction drawings.

Albuquerque

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Tieque Cha

Planning Department, Development Review Services



COA STAFF:

City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: SUNPORT CELL PHONE LOT DRB#: N/A	Building Permit #: BP-2022-223	Hydrology File #: N/A
Legal Description: TR A-1 PLAT OF TRS A-1 & A-2	2 SUNPORT MUNICIPAL ADDNCONT 2286.0	0091 AC
City Address: 2200 SUNPORT BLVD SE ALBUQUERO	QUE, NM 87106	
Applicant: WHPacific, Inc - An NV5 Company		Contact: Minxuan(Jacky) Lin
Address: 6501 America Pkwy NE, Ste 400 Albuquerque, N		
Phone#: 505-348-5221	Fax#:	E-mail: jacky.lin@nv5.com
Owner: City of Albuquerque, Aviation Department		Contact: Bud Ball
Address: 2200 Sunport SE, Albuquerque, NM 87106		=
Phone#: O: 505.244.7871 Cell:505.410.2937	Fax#:	E-mail: bball@cabq.gov
DEPARTMENT: TRAFFIC/ TRANSPO	ORTATION X HYDROLOG	Y/ DRAINAGE
Check all that Apply:		APPROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATI PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TO TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	BUILI ON	DING PERMIT APPROVAL IFICATE OF OCCUPANCY IMINARY PLAT APPROVAL PLAN FOR SUB'D APPROVAL PLAN FOR BLDG. PERMIT APPROVAL I PLAT APPROVAL RELEASE OF FINANCIAL GUARANTEE IDATION PERMIT APPROVAL DING PERMIT APPROVAL APPROVAL NG PERMIT APPROVAL DING/PAD CERTIFICATION KORDER APPROVAL
DATE SUBMITTED: 1-25-2023		

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



WHPacific Project # 855121-A000171.02

January 25, 2023

Tiequan Chen, P.E. Principal Engineer, Hydrology Development Review Services PO Box 1293 Albuquerque, New Mexico 87103

Re: TR A-1 Plat of TRS A-1 & A-2 Sunport Municipal Addn. (M16D024C) 2200 Sunport Blvd. SE Grading and Drainage Plan

Dear Tiequan:

Attached is the grading and drainage resubmittal for Grading & Paving Permit Approval. The following items has been revised & provided per comment letter by Shahab Biazar, P.E. City Engineer dated September 29, 2022.

- 1. Comment response on Comment Letter dated September 29, 2022.
- 2. Revised Grading Plan Sheet C-130 to Sheet C-133 with new seal date.
- 3. Revised Drainage Plan and Calculation Sheet C-141 & C-142 with new seal date.
- 4. Revised Demolition Plan Sheet C-101 with new seal date.
- 5. Revised Overall Site Plan Sheet C-120 with new seal date.
- 6. Landscape Planting Plan Sheet LP-101 (unchanged.)

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: Paul Browne, AIA

CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

September 29, 2022

Minxuan (Jacky) Lin WHPacific, Inc. – An NV5 Company 6501 America Pkwy NE, Suite 100 Albuquerque, NM 87110

RE: TR A-1 Plat of TRS A-1 & A-2 Sunport Municipal Addn. (M16D024C) 2200 Sunport Blvd. SE **Grading and Drainage Plan Engineers Stamp Date 8/26/2022**

PO Box 1293

Mr. Lin,

Based upon the information provided in your submittal received 8/26/2022, the following comments must be addressed prior to approval:

Albuquerque

1) How many mature trees will be taken out as part of the deceleration lane and entrance construction. It does not appear that all existing three are shown on the plan. Eight (8) mature trees will be taking out as part of the deceleration lane and entrance. Trees will be replace, see sheet C-101 & LP-101 for demolition plan and landscape planting plan.

There is an existing area with buckled sidewalk just north of the start of deceleration lane.

NM 87103

Concur, construction note added to demolition plan.

www.cabq.gov

3) There is an area were the runoff drains across the entrance. Please include riprap upstream of the low point as well.

Concur, riprap construction note provided on upstream.

- 4) Please double check the treatment used in your runoff calculations both under the existing and proposed conditions. Under existing conditions, the treatment C is at 70%. It appears that the site is about 50% B. under the proposed conditions percentage D might be higher than show. Treatment used has checked, treatment C is at 70%, site for Ex. Basin 1 not considered treatment.
- B. Picture of existing site condition provided on sheet C-141. Please provide more information about the existing inlet and provide inlet capacity calculations. Show spot elevations around the inlet to ensure runoff will not drain to the north instead of draining to the inlet. Please include a note that existing inlet to be cleaned (most likely full of sediment). Concur. Additional information and capacity calculations has been provided on sheet C-130 & C-142.
- 6) First Flush Volume (using storm water quality pond/retention pond) must be provided per the DPM. Detention ponds as mentioned on the plan does not address the First Flush Volume requirements.

Not Concur. The first flush volume was computed, see calculation on sheet C-142 Drainage Plan, first flush volume was captured within the proposed detention ponds and landscape islands.

CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

- 7) Was a Traffic Circulation layout submitted to Transportation for review and approvals? Acknowledge, Transportation is currently under review.
- 8) Provide Finished Floor elevation for the restroom pad.
 Not Concur, Finished Floor elevation for the restroom pad has provided on sheet
 If you have any questions, please contact me at 924-3999.

 C-130 Grading Plan.

Sincerely,

Shahab Biazar, P.E.

City Engineer

Planning Department

Development Review Services

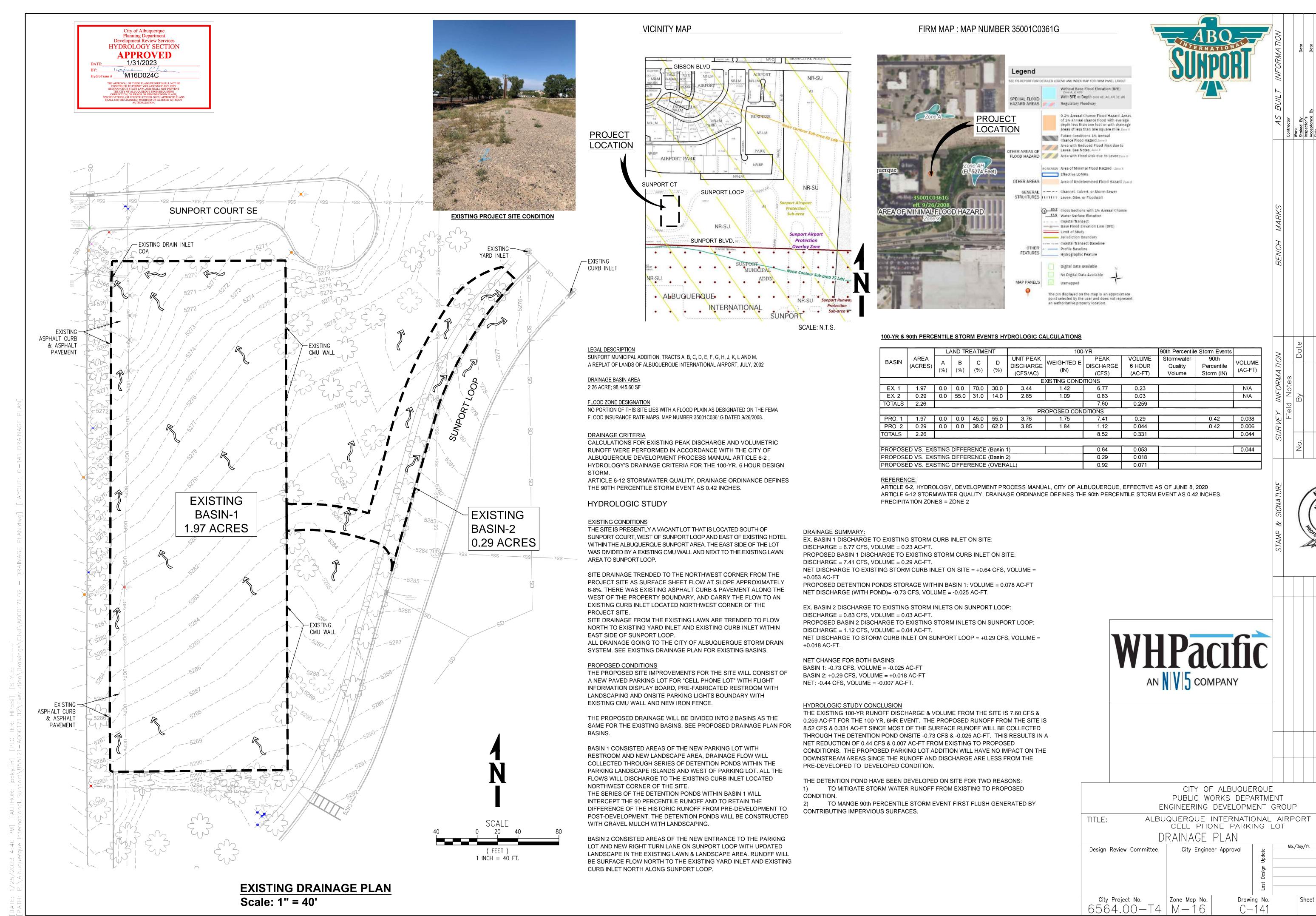
PO Box 1293

C: M16D024C

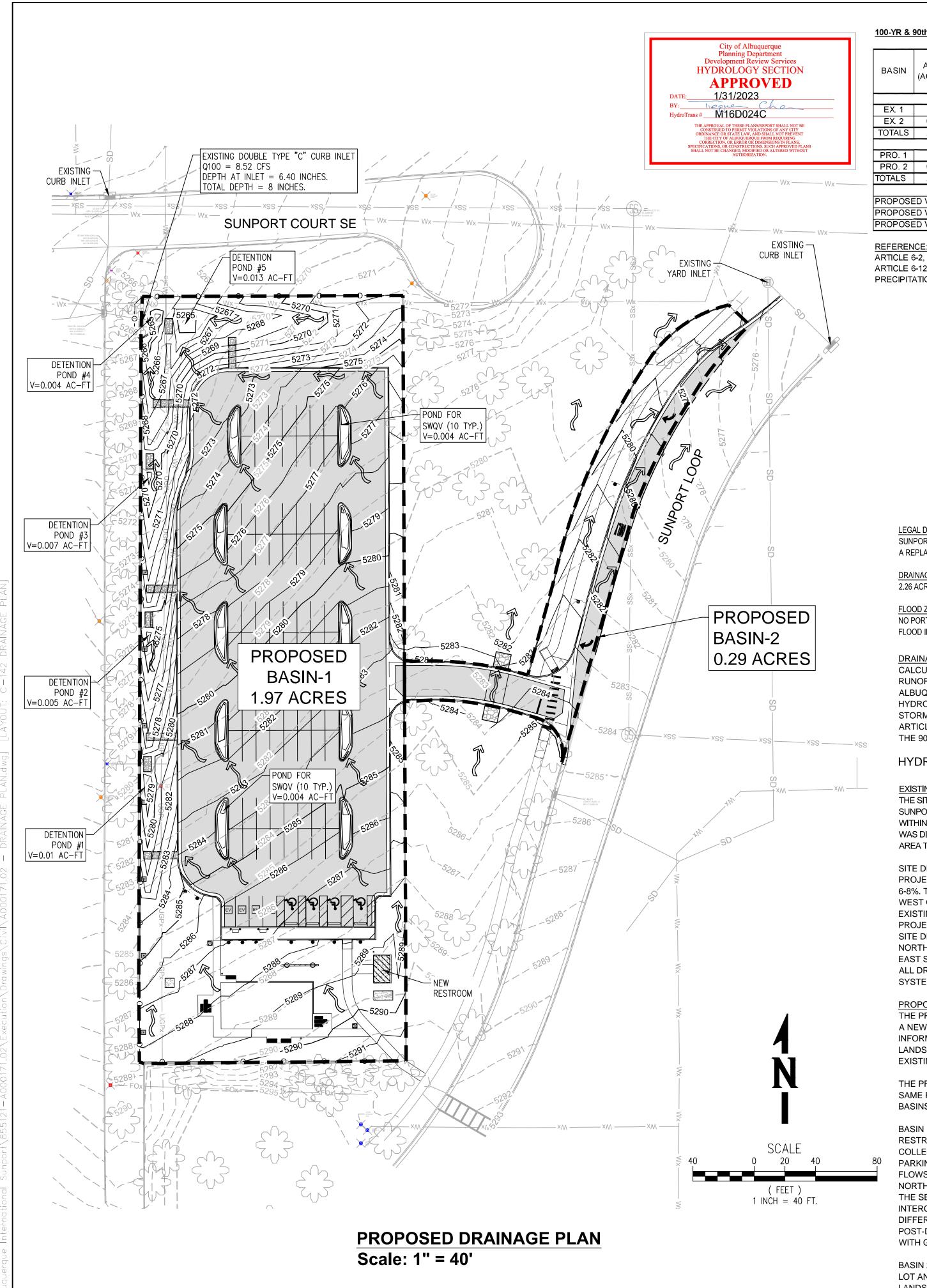
Albuquerque

NM 87103

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Mo./Day/Yr.



100-YR & 90th PERCENTILE STORM EVENTS HYDROLOGIC CALCULATIONS

		L/	MD IK	LAIME	:NI		100	-YR		90th Percentile	e Storm Events	
BASIN	AREA (ACRES)	A (%)	B (%)	C (%)	D (%)	UNIT PEAK DISCHARGE (CFS/AC)	WEIGHTED E (IN)	PEAK DISCHARGE (CFS)	VOLUME 6 HOUR (AC-FT)	Stormwater Quality Volume	90th Percentile Storm (IN)	VOLUME (AC-FT)
			I	1	<u> </u>	E	XISTING COND	ITIONS				I
EX 1	1.97	0.0	0.0	70.0	30.0	3.44	1.42	6.77	0.23			N/A
EX. 2	0.29	0.0	55.0	31.0	14.0	2.85	1.09	0.83	0.03			N/A
TOTALS	2.26							7.60	0.259			
						PR	OPOSED CON	DITIONS				
PRO. 1	1.97	0.0	0.0	45.0	55.0	3.76	1.75	7.41	0.29		0.42	0.038
PRO. 2	0.29	0.0	0.0	38.0	62.0	3.85	1.84	1.12	0.044		0.42	0.006
TOTALS	2.26							8.52	0.331			0.044
								•		•		
PROPOSE	D VS. EXI	STING	DIFFER	RENCE	(Basin	1)		0.64	0.053			0.044
PROPOSE	D VS. EXI	STING	DIFFE	RENCE	(Basin 2	2)		0.29	0.018			
PROPOSE	D VS. EXI	STING	DIFFER	RENCE	(OVER	ALL)		0.92	0.071			

ARTICLE 6-2, HYDROLOGY, DEVELOPMENT PROCESS MANUAL, CITY OF ALBUQUERQUE, EFFECTIVE AS OF JUNE 8, 2020 ARTICLE 6-12 STORMWATER QUALITY, DRAINAGE ORDINANCE DEFINES THE 90th PERCENTILE STORM EVENT AS 0.42 INCHES.

PRECIPITATION ZONES = ZONE 2

Inlet Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

AIS Sunport Cell Phone Lot - Existing Bouble Type C Inlet Capacity

Combination Inlet		Calculations	
Location	= Sag	Compute by:	Known Q
Curb Length (ft)	= 7.39	Q (cfs)	= 8.52
Throat Height (in)	= 4.25	a De Francis	
Grate Area (sqft)	= 7.44	Highlighted	
Grate Width (ft)	= 2.08	Q Total (cfs)	= 8.52
Grate Length (ft)	= 6.67	Q Capt (cfs)	= 8.52
		Q Bypass (cfs)	= -0-
Gutter		Depth at Inlet (in)	= 6.40
Slope, Sw (ft/ft)	= 0.080	Efficiency (%)	= 100
Slope, Sx (ft/ft)	= 0.020	Gutter Spread (ft)	= 12.32
Local Depr (in)	= 2.00	Gutter Vel (ft/s)	= -0-
Gutter Width (ft)	= 2.00	Bypass Spread (ft)	= -0-
Gutter Slope (%)	= -0-	Bypass Depth (in)	= -0-
Gutter n-value	= -0-	THE RESERVE THE PROPERTY OF THE PARTY OF THE	

SUNPORT MUNICIPAL ADDITION, TRACTS A, B, C, D, E, F, G, H, J, K, L AND M. A REPLAT OF LANDS OF ALBUQUERQUE INTERNATIONAL AIRPORT, JULY, 2002

DRAINAGE BASIN AREA 2.26 ACRE; 98,445.60 SF

FLOOD ZONE DESIGNATION

NO PORTION OF THIS SITE LIES WITH A FLOOD PLAIN AS DESIGNATED ON THE FEMA FLOOD INSURANCE RATE MAPS, MAP NUMBER 35001C0361G DATED 9/26/2008.

DRAINAGE CRITERIA

CALCULATIONS FOR EXISTING PEAK DISCHARGE AND VOLUMETRIC RUNOFF WERE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL ARTICLE 6-2, HYDROLOGY'S DRAINAGE CRITERIA FOR THE 100-YR, 6 HOUR DESIGN STORM.

ARTICLE 6-12 STORMWATER QUALITY, DRAINAGE ORDINANCE DEFINES THE 90TH PERCENTILE STORM EVENT AS 0.42 INCHES.

HYDROLOGIC STUDY

EXISTING CONDITIONS

THE SITE IS PRESENTLY A VACANT LOT THAT IS LOCATED SOUTH OF SUNPORT COURT, WEST OF SUNPORT LOOP AND EAST OF EXISTING HOTEL WITHIN THE ALBUQUERQUE SUNPORT AREA. THE EAST SIDE OF THE LOT WAS DIVIDED BY A EXISTING CMU WALL AND NEXT TO THE EXISTING LAWN AREA TO SUNPORT LOOP.

SITE DRAINAGE TRENDED TO THE NORTHWEST CORNER FROM THE PROJECT SITE AS SURFACE SHEET FLOW AT SLOPE APPROXIMATELY 6-8%. THERE WAS EXISTING ASPHALT CURB & PAVEMENT ALONG THE WEST OF THE PROPERTY BOUNDARY, AND CARRY THE FLOW TO AN EXISTING CURB INLET LOCATED NORTHWEST CORNER OF THE PROJECT SITE.

SITE DRAINAGE FROM THE EXISTING LAWN ARE TRENDED TO FLOW NORTH TO EXISTING YARD INLET AND EXISTING CURB INLET WITHIN EAST SIDE OF SUNPORT LOOP.

ALL DRAINAGE GOING TO THE CITY OF ALBUQUERQUE STORM DRAIN SYSTEM. SEE EXISTING DRAINAGE PLAN FOR EXISTING BASINS.

PROPOSED CONDITIONS

THE PROPOSED SITE IMPROVEMENTS FOR THE SITE WILL CONSIST OF A NEW PAVED PARKING LOT FOR "CELL PHONE LOT" WITH FLIGHT INFORMATION DISPLAY BOARD, PRE-FABRICATED RESTROOM WITH LANDSCAPING AND ONSITE PARKING LIGHTS BOUNDARY WITH EXISTING CMU WALL AND NEW IRON FENCE.

THE PROPOSED DRAINAGE WILL BE DIVIDED INTO 2 BASINS AS THE SAME FOR THE EXISTING BASINS. SEE PROPOSED DRAINAGE PLAN FOR

BASIN 1 CONSISTED AREAS OF THE NEW PARKING LOT WITH RESTROOM AND NEW LANDSCAPE AREA, DRAINAGE FLOW WILL COLLECTED THROUGH SERIES OF DETENTION PONDS WITHIN THE PARKING LANDSCAPE ISLANDS AND WEST OF PARKING LOT. ALL THE FLOWS WILL DISCHARGE TO THE EXISTING CURB INLET LOCATED NORTHWEST CORNER OF THE SITE.

THE SERIES OF THE DETENTION PONDS WITHIN BASIN 1 WILL INTERCEPT THE 90 PERCENTILE RUNOFF AND TO RETAIN THE DIFFERENCE OF THE HISTORIC RUNOFF FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT. THE DETENTION PONDS WILL BE CONSTRUCTED WITH GRAVEL MULCH WITH LANDSCAPING.

BASIN 2 CONSISTED AREAS OF THE NEW ENTRANCE TO THE PARKING LOT AND NEW RIGHT TURN LANE ON SUNPORT LOOP WITH UPDATED LANDSCAPE IN THE EXISTING LAWN & LANDSCAPE AREA. RUNOFF WILL BE SURFACE FLOW NORTH TO THE EXISTING YARD INLET AND EXISTING CURB INLET NORTH ALONG SUNPORT LOOP.

+0.018 AC-FT.

EX. BASIN 1 DISCHARGE TO EXISTING STORM CURB INLET ON SITE: DISCHARGE = 6.77 CFS, VOLUME = 0.23 AC-FT.

PROPOSED BASIN 1 DISCHARGE TO EXISTING STORM CURB INLET ON SITE: DISCHARGE = 7.41 CFS, VOLUME = 0.29 AC-FT.

NET DISCHARGE TO EXISTING STORM CURB INLET ON SITE = +0.64 CFS, VOLUME = +0.053 AC-FT PROPOSED DETENTION PONDS STORAGE WITHIN BASIN 1: VOLUME = 0.078 AC-FT

Wednesday, Jan 25 2023

EX. BASIN 2 DISCHARGE TO EXISTING STORM INLETS ON SUNPORT LOOP: DISCHARGE = 0.83 CFS, VOLUME = 0.03 AC-FT.

NET DISCHARGE (WITH POND)= -0.73 CFS, VOLUME = -0.025 AC-FT.

PROPOSED BASIN 2 DISCHARGE TO EXISTING STORM INLETS ON SUNPORT LOOP: DISCHARGE = 1.12 CFS, VOLUME = 0.04 AC-FT.

NET DISCHARGE TO STORM CURB INLET ON SUNPORT LOOP = +0.29 CFS, VOLUME =

NET CHANGE FOR BOTH BASINS: BASIN 1: -0.73 CFS, VOLUME = -0.025 AC-FT BASIN 2: +0.29 CFS, VOLUME = +0.018 AC-FT

HYDROLOGIC STUDY CONCLUSION

NET: -0.44 CFS, VOLUME = -0.007 AC-FT.

THE EXISTING 100-YR RUNOFF DISCHARGE & VOLUME FROM THE SITE IS 7.60 CFS & 0.259 AC-FT FOR THE 100-YR, 6HR EVENT. THE PROPOSED RUNOFF FROM THE SITE IS 8.52 CFS & 0.331 AC-FT SINCE MOST OF THE SURFACE RUNOFF WILL BE COLLECTED THROUGH THE DETENTION POND ONSITE -0.73 CFS & -0.025 AC-FT. THIS RESULTS IN A NET REDUCTION OF 0.44 CFS & 0.007 AC-FT FROM EXISTING TO PROPOSED CONDITIONS. THE PROPOSED PARKING LOT ADDITION WILL HAVE NO IMPACT ON THE DOWNSTREAM AREAS SINCE THE RUNOFF AND DISCHARGE ARE LESS FROM THE PRE-DEVELOPED TO DEVELOPED CONDITION.

THE EXISTING DOUBLE TYPE "C" CURB INLET WILL CAPTURE ALL 8.52 CFS PRODUCT BY THE PROJECT SITE, THE DEPTH AT INLET WILL BE 6.40 INCHES, AND THE TOTAL DEPTH OF THE EXISTING INLET FROM TOP CURB TO FLOWLINE AT GRATE IS 8.0 INCHES, THEREFORE, THE EXISTING DOUBLE TYPE "C" CURB INLET WILL HAVE THE CAPACITY TO HANDLE THE DISCHARGE FROM THE DEVELOPED CONDITION.

THE DETENTION POND HAVE BEEN DEVELOPED ON SITE FOR TWO REASONS: TO MITIGATE STORM WATER RUNOFF FROM EXISTING TO PROPOSED

TO MANGE 90th PERCENTILE STORM EVENT FIRST FLUSH GENERATED BY CONTRIBUTING IMPERVIOUS SURFACES.



0.004

0.004

ON	DOND Posting	Island (Facility	
GE	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)
	0.00	0	0.00
	0.002	85	0.002

169

Total of 10 Parking	g Island (Same	Storage Area	Total	0.04						
	DETENTION POND - 1									
ELEVATION	AREA (FT ²)	STORAGE (FT ³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)					
5279.0	60	0	0.00	0	0.00					
5280	375	218	0.005	218	0.005					
5280.5	560	234	451	0.010						
		TOTAL	STORAGE	451	0.010					

TOTAL STORAGE

DETENTION

150

185

ELEVATION

5284.0

	DETENTION POND - 2								
ELEVATION	AREA (FT ²)	STORAGE (FT³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)				
5274.0	15	0	0.00	0	0.00				
5275	185	100	0.002	100	0.002				
5275.5	340	131	0.00	231	0.005				
	TOTAL STORAGE 231 0.005								

DETENTION POND - 3										
ELEVATION AREA (FT²) STORAGE (AC-FT) CUMMULATIVE STORAGE (AC-FT) CUMMULATIVE STORAGE (AC-FT)										
5269.0	15	0	0.00	0	0.00					
5270	225	120	0.003	120	0.003					
5270.5	430	164	0.00	284	0.007					
	TOTAL STORAGE 284 0.007									

DETENTION POND - 4								
ELEVATION	CUMMULATIVE STORAGE (AC-FT)							
5264.0	15	0	0.00	0	0.00			
5265	135	75	0.002	75	0.002			
5265.5	315	113	0.00	188	0.004			
		TOTAL	STORAGE	188	0.004			

	DETENTION POND - 5								
ELEVATION	AREA (FT ²)	STORAGE (FT ³)	STORAGE (AC-FT)	CUMMULATIVE STORAGE (FT³)	CUMMULATIVE STORAGE (AC-FT)				
5265.0	130	0	0.00	0	0.00				
5266	460	295	0.007	295	0.007				
5266.5	610	268	0.01	563	0.013				
		TOTAL	563	0.013					

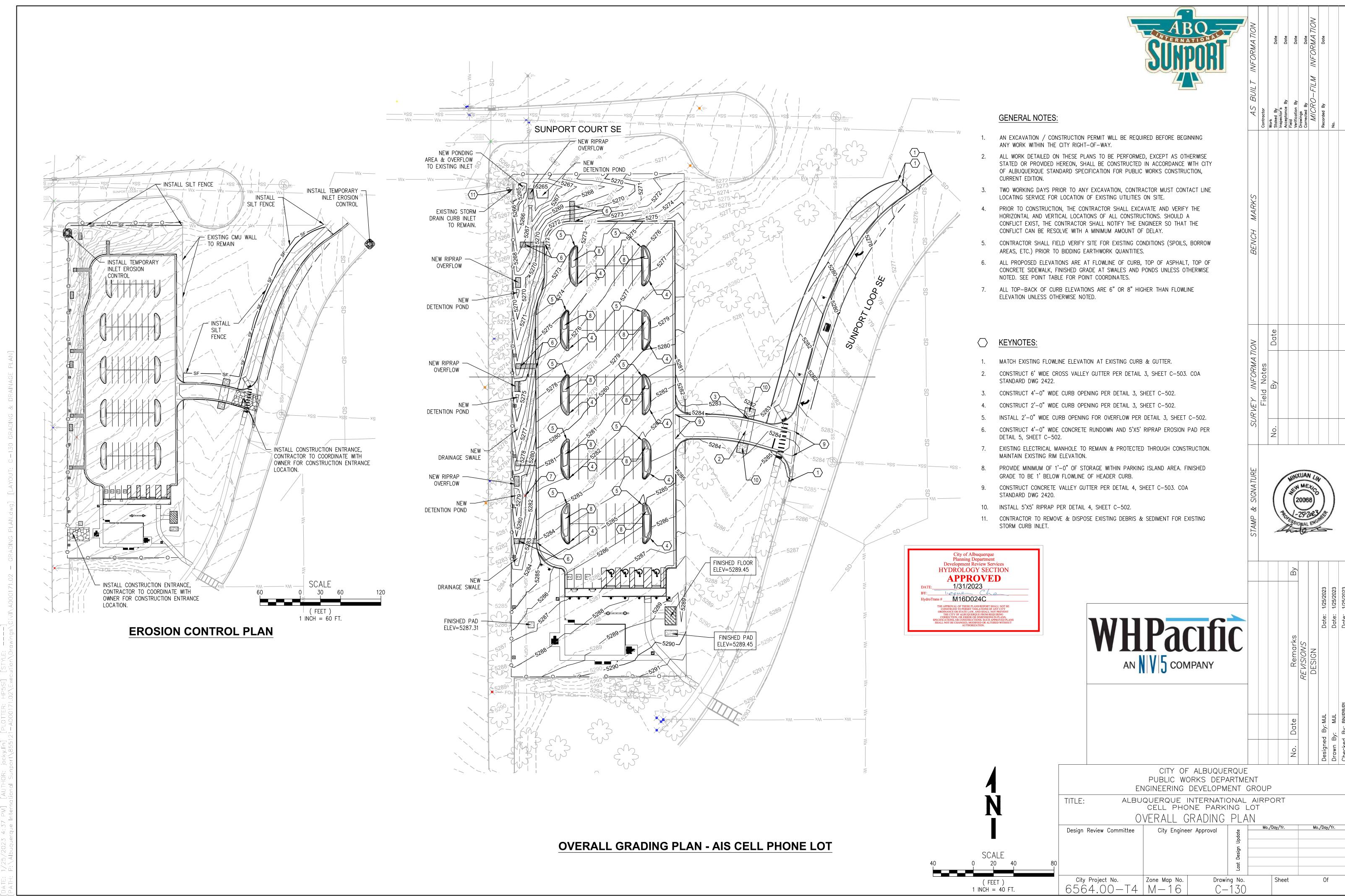




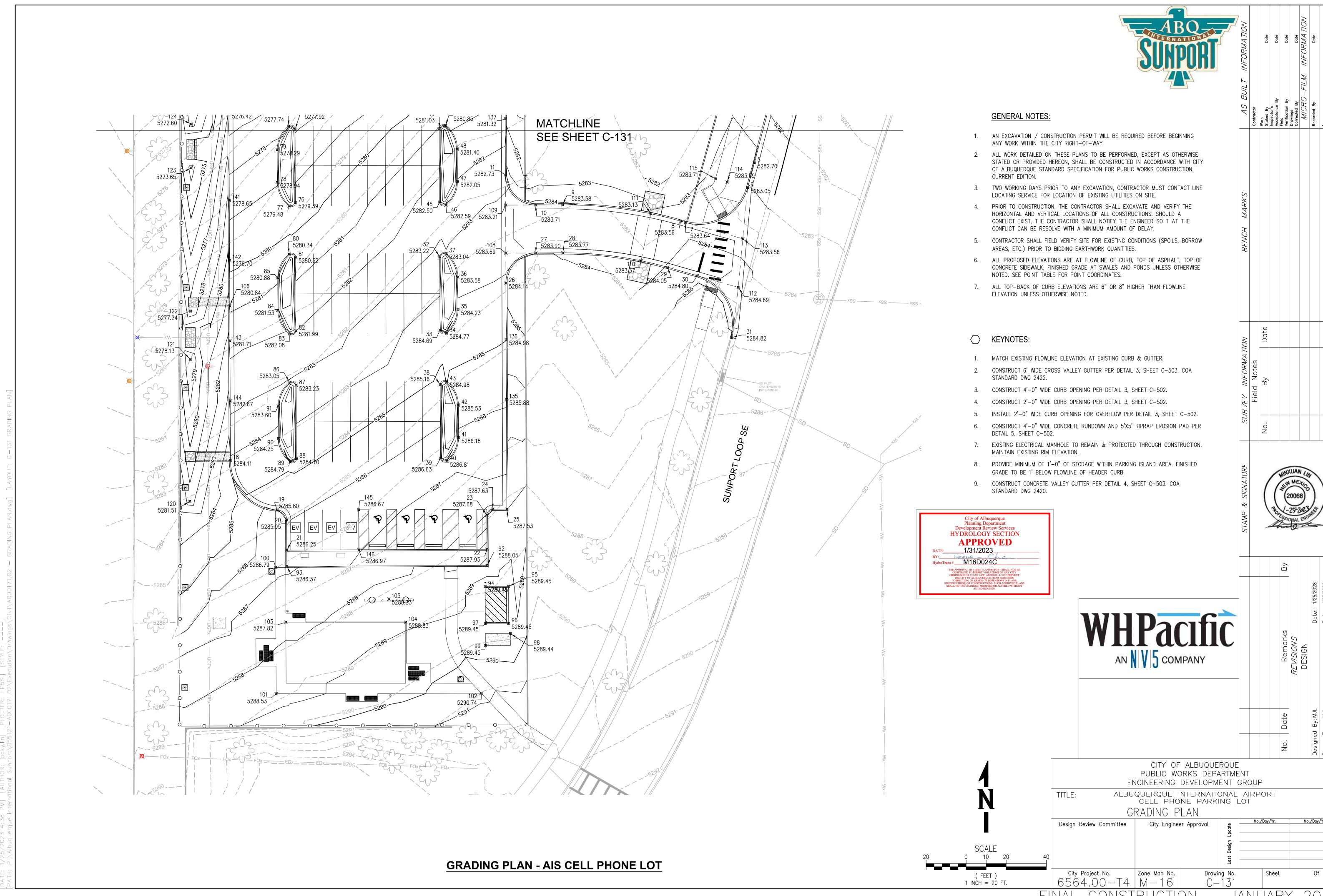
C			Remarks	REVISIONS	DESIGN	Date:	Date:)
			Date			d By:	3y:	Ď.
			No.			Designed By:	Drawn By:	Checked By.

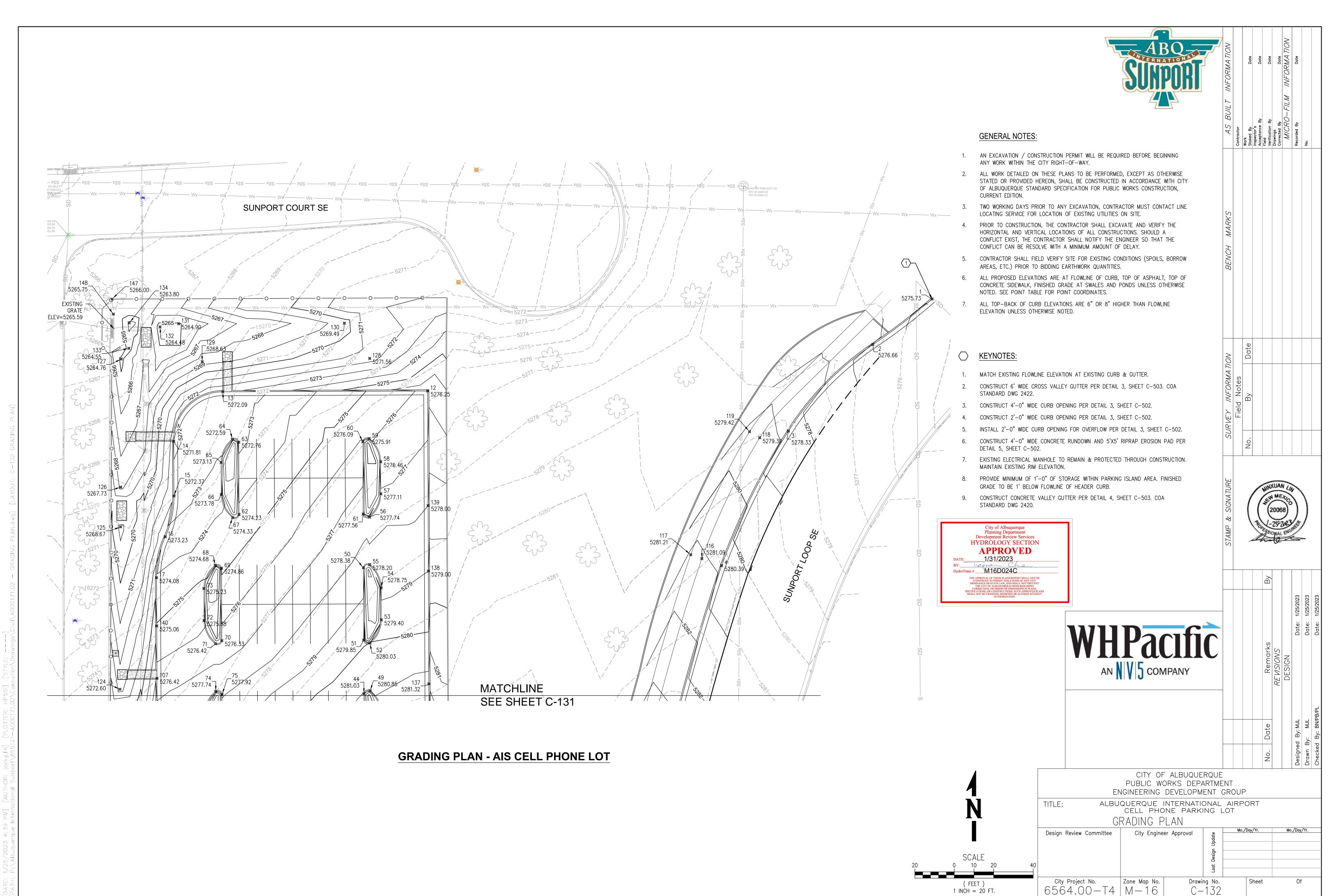
E	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP							
ITLE: ALBUQUERQUE INTERNATIONAL AIRPORT CELL PHONE PARKING LOT DRAINAGE PLAN								
Design Review Committee	City Engine	er Approval	Last Design Update	Mo./	Day/Yr.	Mo./Day/Yr.		
City Project No. 6564.00—T4	Zone Map No. M — 16		ng No.		Sheet	Of		

FINAL CONSTRUCTION - JANUARY 2023



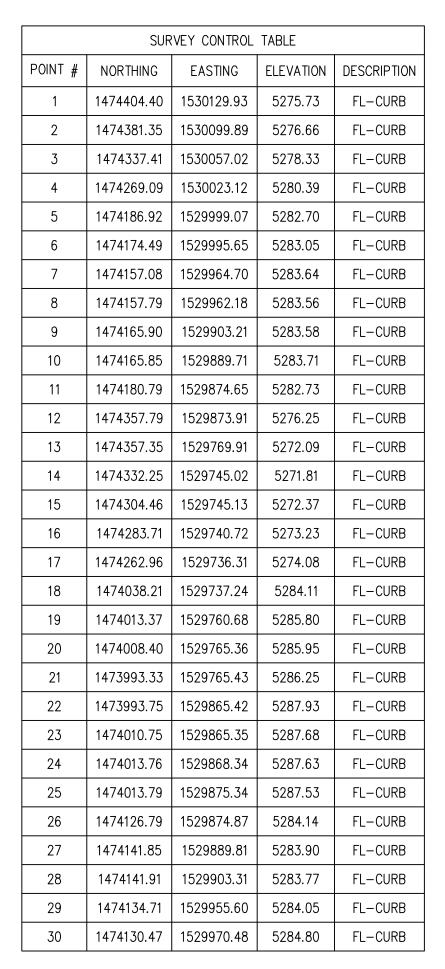
FINAL CONSTRUCTION - JANUARY 2023





FINAL CONSTRUCTION - JANUARY 2023





	SUR	RVEY CONTROL	TABLE	T
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
31	1474099.54	1529987.67	5284.82	FL-CURB
32	1474140.02	1529841.82	5283.22	FL-CURB
33	1474103.28	1529841.97	5284.69	FL-CURB
34	1474101.72	1529845.21	5284.77	FL-CURB
35	1474113.56	1529850.93	5284.23	FL-CURB
36	1474129.81	1529850.86	5283.58	FL-CURB
37	1474141.61	1529845.04	5283.04	FL-CURB
38	1474076.02	1529842.08	5285.16	FL-CURB
39	1474039.28	1529842.24	5286.63	FL-CURB
40	1474037.72	1529845.47	5286.81	FL-CURB
41	1474049.56	1529851.19	5286.18	FL-CURB
42	1474065.81	1529851.13	5285.53	FL-CURB
43	1474077.61	1529845.31	5284.98	FL-CURB
44	1474204.02	1529841.55	5281.03	FL-CURB
45	1474167.28	1529841.70	5282.50	FL-CURB
46	1474165.71	1529844.94	5282.59	FL-CURB
47	1474177.56	1529850.66	5282.05	FL-CURB
48	1474193.81	1529850.59	5281.40	FL-CURB
49	1474205.61	1529844.78	5280.85	FL-CURB
50	1474268.02	1529841.29	5278.38	FL-CURB
51	1474231.28	1529841.44	5279.85	FL-CURB
52	1474229.71	1529844.68	5280.03	FL-CURB
53	1474241.56	1529850.40	5279.40	FL-CURB
54	1474257.81	1529850.33	5278.75	FL-CURB
55	1474269.61	1529844.51	5278.20	FL-CURB
56	1474293.71	1529844.41	5277.74	FL-CURB
57	1474305.56	1529850.13	5277.11	FL-CURB
58	1474321.81	1529850.06	5276.46	FL-CURB
59	1474333.61	1529844.24	5275.91	FL-CURB
60	1474332.02	1529841.02	5276.09	FL-CURB

	SUR	RVEY CONTROL	TABLE	Г
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
61	1474295.28	1529841.17	5277.56	FL-CURB
62	1474295.02	1529778.17	5274.23	FL-CURB
63	1474331.76	1529778.02	5272.76	FL-CURB
64	1474333.32	1529774.78	5272.59	FL-CURB
65	1474321.47	1529769.06	5273.13	FL-CURB
66	1474305.22	1529769.13	5273.78	FL-CURB
67	1474293.43	1529774.95	5274.33	FL-CURB
68	1474269.28	1529766.05	5274.68	FL-CURB
69	1474267.72	1529769.29	5274.86	FL-CURB
70	1474230.98	1529769.44	5276.33	FL-CURB
71	1474229.39	1529766.21	5276.42	FL-CURB
72	1474241.19	1529760.40	5275.88	FL-CURB
73	1474257.44	1529760.33	5275.23	FL-CURB
74	1474205.29	1529766.31	5277.74	FL-CURB
75	1474203.72	1529769.55	5277.92	FL-CURB
76	1474166.98	1529769.70	5279.39	FL-CURB
77	1474165.39	1529766.48	5279.48	FL-CURB
78	1474177.19	1529760.66	5278.94	FL-CURB
79	1474193.44	1529760.59	5278.29	FL-CURB
80	1474141.29	1529766.58	5280.34	FL-CURB
81	1474139.72	1529769.82	5280.52	FL-CURB
82	1474102.98	1529769.97	5281.99	FL-CURB
83	1474101.39	1529766.75	5282.08	FL-CURB
84	1474113.19	1529760.93	5281.53	FL-CURB
85	1474129.44	1529760.86	5280.88	FL-CURB
86	1474077.29	1529766.85	5283.05	FL-CURB
87	1474075.72	1529770.08	5283.23	FL-CURB
88	1474038.98	1529770.24	5284.70	FL-CURB
89	1474037.39	1529767.01	5284.79	FL-CURB
90	1474049.19	1529761.19	5284.25	FL-CURB

	J.	URVEY CONTRO	/_	
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
91	1474065.44	1529761.13	5283.60	FL-CURB
92	1473985.62	1529865.46	5288.05	SWLK
93	1473985.21	1529765.46	5286.37	SWLK
94	1473975.12	1529864.50	5289.45	CONC
95	1473975.17	1529876.17	5289.45	CONC
96	1473956.67	1529876.25	5289.45	CONC
97	1473956.62	1529864.58	5289.45	CONC
98	1473951.67	1529877.10	5289.44	CONC
99	1473945.62	1529864.62	5289.45	CONC
100	1473984.68	1529759.84	5286.79	SWLK
101	1473921.55	1529760.10	5288.53	SWLK
102	1473921.76	1529862.62	5290.74	SWLK
103	1473957.28	1529764.95	5287.82	SWLK
104	1473957.28	1529824.84	5288.83	CONC
105	1473968.88	1529816.42	5288.33	DISPLAY CENTER
106	1474115.41	1529736.92	5280.84	FL-CURB OPEN
107	1474211.84	1529736.52	5276.42	FL-CURB OPEN
108	1474141.79	1529874.81	5283.69	FL-VG
109	1474165.79	1529874.71	5283.21	FL-VG
110	1474137.96	1529942.40	5283.37	FL-VG
111	1474161.46	1529947.30	5283.13	FL-VG
112	1474124.64	1529990.95	5284.69	FL-VG
113	1474148.95	1529993.23	5283.56	FL-VG
114	1474177.31	1529985.41	5283.59	SWLK
115	1474178.90	1529979.62	5283.71	SWLK
116	1474272.63	1530013.10	5281.09	SWLK
117	1474274.63	1530007.44	5281.21	SWLK
118	1474334.03	1530042.45	5279.30	SWLK
119	1474337.10	1530037.30	5279.42	SWLK
120	1474017.72	1529716.94	5281.51	FG-SWALE

	SUR	VEY CONTROL	TABLE	
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
121	1474088.63	1529717.23	5278.13	FG-SWALE
122	1474112.79	1529717.33	5277.24	FG-SWALE
123	1474184.42	1529717.62	5273.65	FG-SWALE
124	1474206.27	1529717.70	5272.60	FG-SWALE
125	1474288.75	1529718.04	5268.67	FG-SWALE
126	1474308.95	1529718.12	5267.73	FG-SWALE
127	1474373.99	1529718.39	5264.76	FG-SWALE
128	1474374.29	1529844.51	5271.56	FG
129	1474372.62	1529759.47	5268.63	FG
130	1474392.20	1529831.63	5269.49	FG-SWALE
131	1474391.88	1529747.55	5264.90	FG-SWALE
132	1474390.31	1529738.05	5264.48	FG
133	1474379.46	1529722.24	5264.55	FG-SWALE
134	1474392.33	1529722.46	5263.80	FG
135	1474068.66	1529875.11	5285.88	FL-CURB
136	1474098.54	1529874.99	5284.98	FL-CURB
137	1474209.04	1529874.53	5281.32	FL-CURB
138	1474266.31	1529874.29	5279.00	FL-CURB
139	1474299.59	1529874.15	5278.00	FL-CURB
140	1474238.46	1529736.41	5275.06	FL-CURB
141	1474168.21	1529736.70	5278.65	FL-CURB
142	1474138.21	1529736.82	5279.70	FL-CURB
143	1474097.96	1529736.99	5281.71	FL-CURB
144	1474067.96	1529737.12	5282.67	FL-CURB
145	1474013.48	1529801.34	5286.67	TA
146	1473993.48	1529801.43	5286.97	TA/SWLK
147	1474404.43	1529713.70	5266.00	FG
148	1474396.81	1529714.39	5265.75	FG

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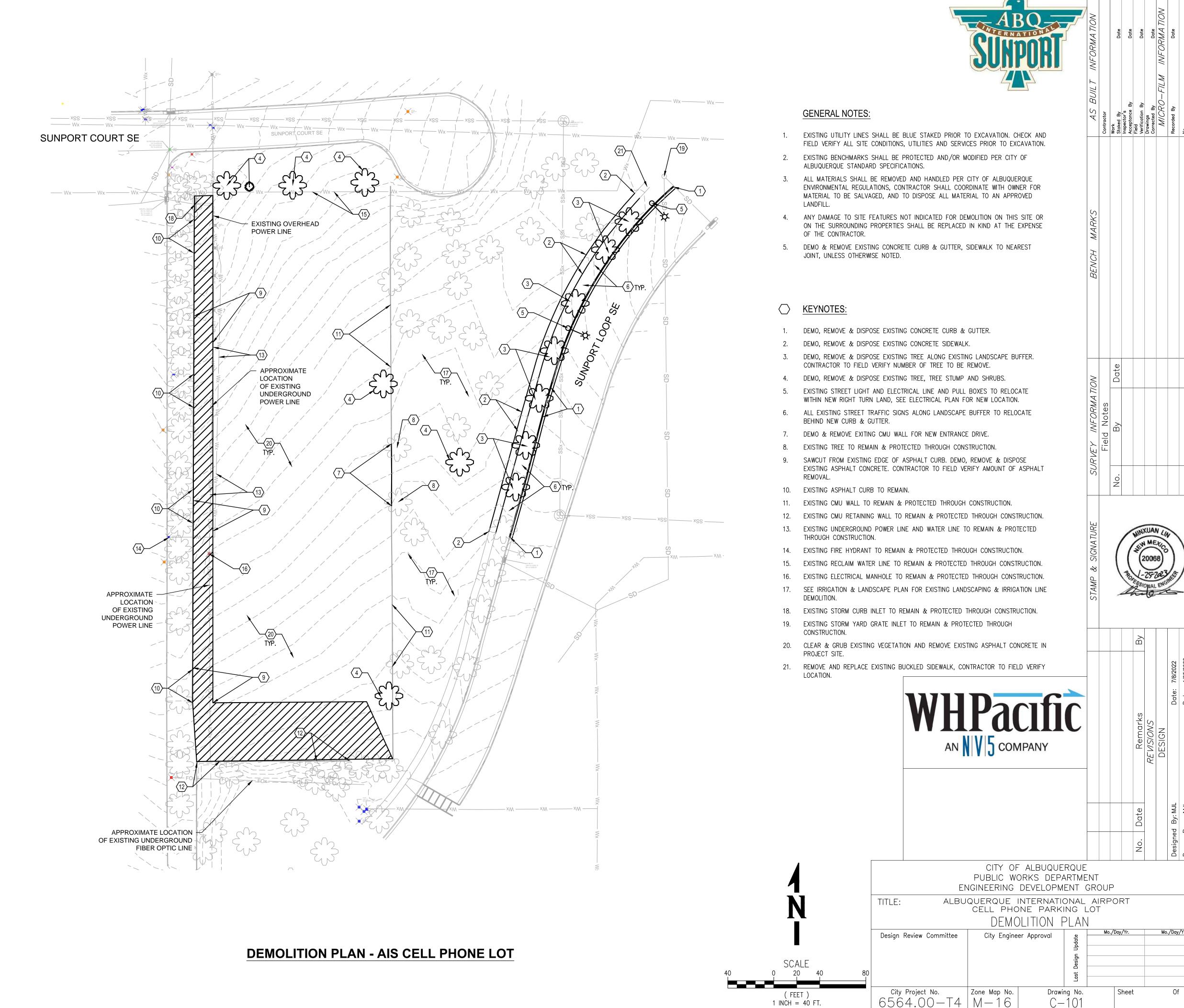
GRADING POINT COORDINATE TABLES



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP													
TITLE:	TITLE: ALBUQUERQUE INTERNATIONAL AIRPORT CELL PHONE PARKING LOT GRADING POINT TABLES												
Design	Review Committee	City Engine	er Approval	Last Design Update		Mo./Do	ıy/Yr.			Mo.	/Day/	Yr.	
	Project No. 4.00—T4	Zone Map No. M — 16		ng No. 133			Sheet	t			Of		

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FINAL CONSTRUCTION — JANUARY 2023

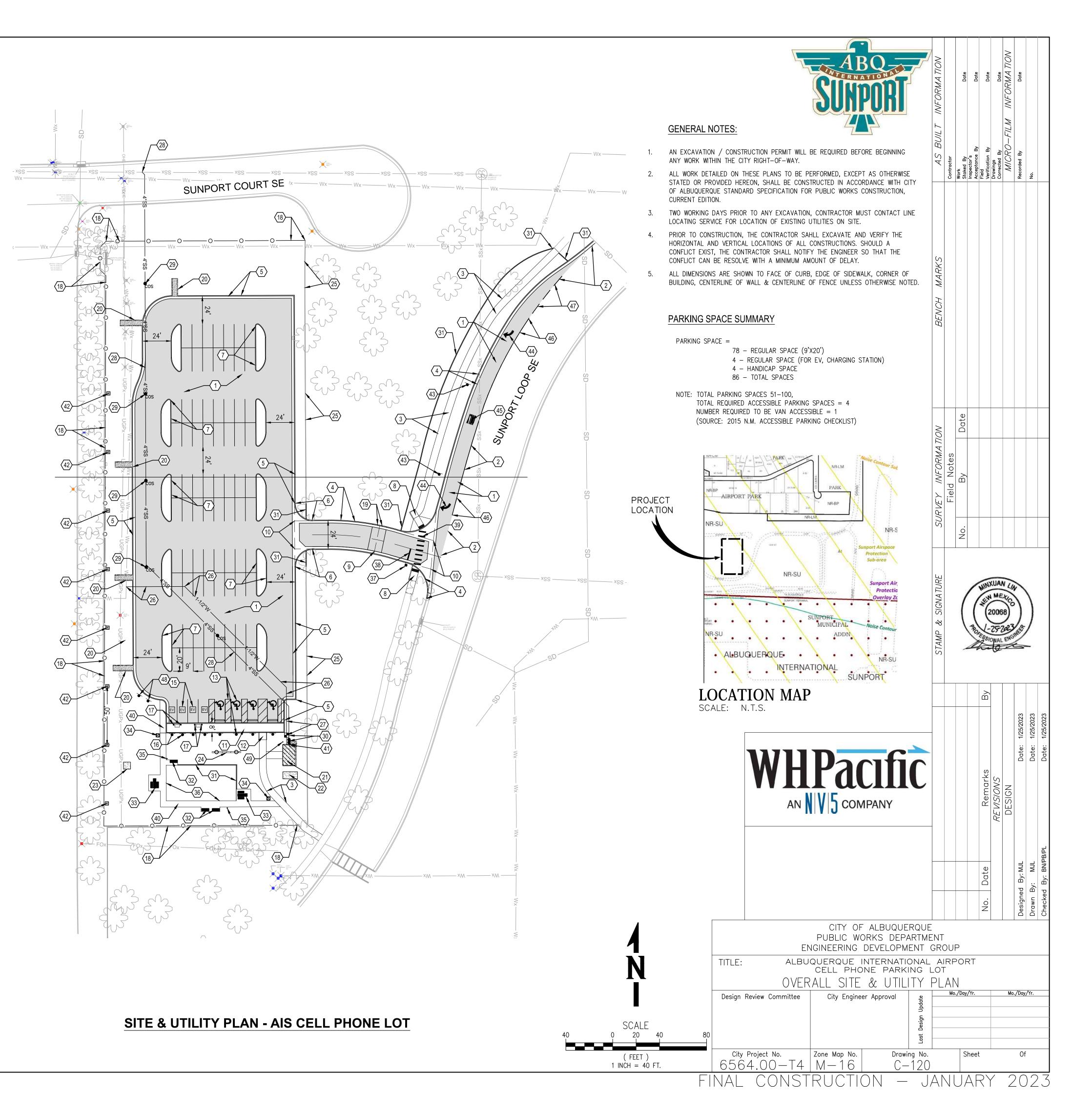


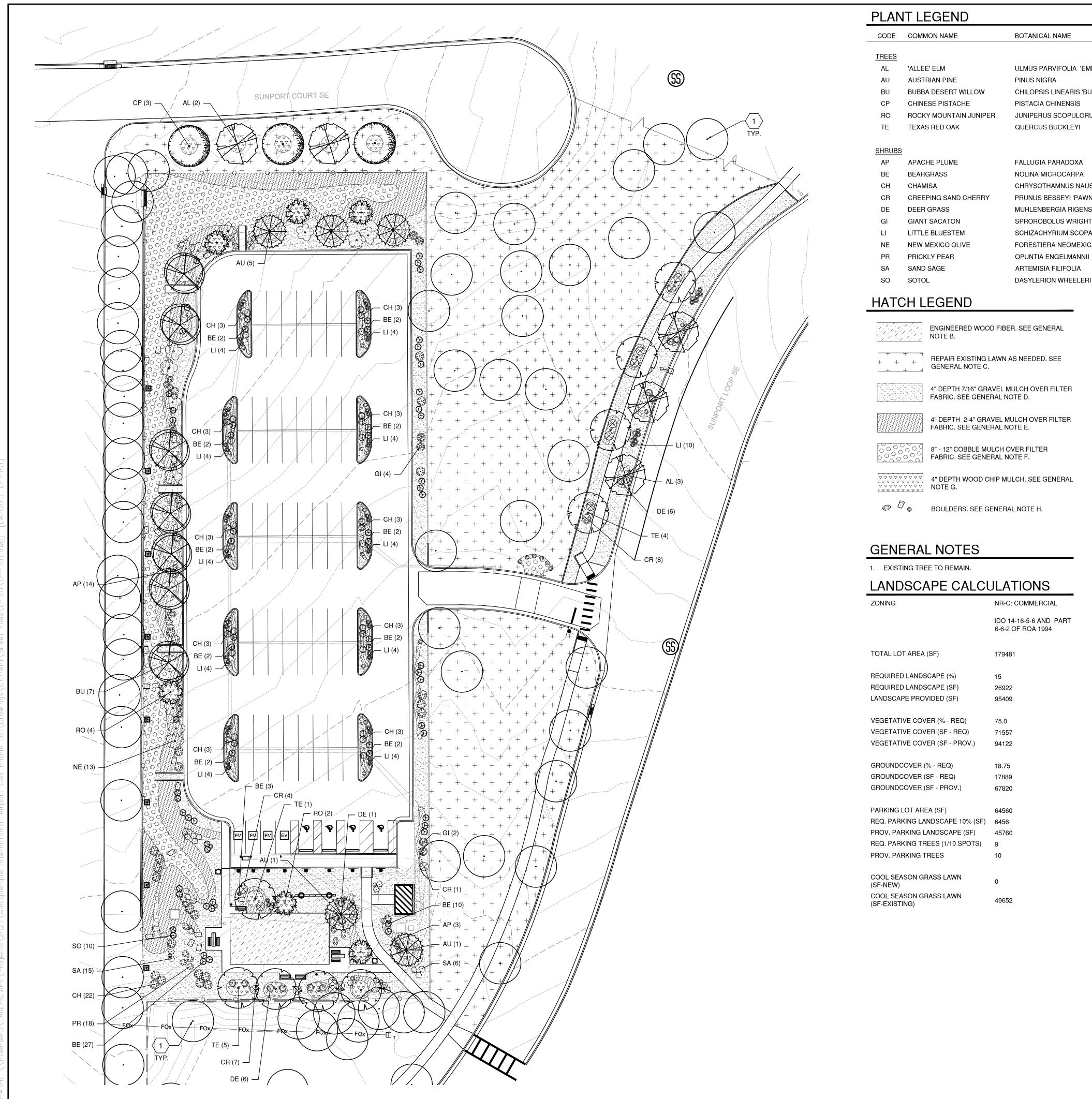
FINAL CONSTRUCTION — JANUARY 2023

KEYNOTES:

- CONSTRUCT ASPHALT PAVEMENT PER DETAIL 1, SHEET C-501.
- SAWCUT EXISTING ASPHALT PAVEMENT & MATCH NEW ASPHALT PER DETAIL 2, SHEET C-501.
- CONSTRUCT 6' WIDE CONCRETE SIDEWALK PER DETAIL 3, SHEET C-501.
- CONSTRUCT 8" STANDARD CURB & GUTTER PER DETAIL 1, SHEET C-502. COA DWG. 2415A.
- CONSTRUCT 6" (MODIFIED) STANDARD CURB & GUTTER PER DETAIL 1, SHEET C-502.
- INSTALL CURB TRANSITION FROM 8" TO 6" CURB & GUTTER.
- CONSTRUCT 6" HEADER CURB PER DETAIL 2, SHEET C-502. COA STANDARD DWG. 2415B.
- CONSTRUCT CONCRETE CURB RAMPS WITH TRUNCATED DOMES PER DETAIL 1 & 2, SHEET C-503. COA STANDARD DWGS.
- CONSTRUCT 6' WIDE CONCRETE CROSS VALLEY GUTTER AND DEPRESSED CURB PER DETAIL 3, SHEET C-503.
- CONSTRUCT CONCRETE VALLEY GUTTER PER DETAIL 4, SHEET C-503.
- 11. INSTALL 8' WIDE CONCRETE SIDEWALK PER DETAIL 3, SHEET C-501.
- 12. CONSTRUCT HANDICAP PARKING CURB RAMP PER DETAIL 4 & 5, SHEET C-501.
- 13. INSTALL HANDICAP PARKING STRIPING, SYMBOLS AND SIGNS PER DETAIL 6, 7 & 8, SHEET C-501. ADA ACCESSIBLE PARKING SIGN MUST HAVE REQUIRED LANGUAGE "VIOLATORS ARE SUBJECT TO A FINE AND/OR TOWING".
- 14. INSTALL PARKING SPACE STRIPING PER DETAIL 6, SHEET C-501. (TYPICAL)
- 15. INSTALL "ELECTRICAL VEHICLE" PARKING SPACE SYMBOL (4) TYPICAL.
- 16. INSTALL "ELECTRICAL VEHICLE CHARGE PARKING ONLY" SIGNS (4) TYPICAL.
- 17. INSTALL (2) BOLLARDS EACH SIDE OF ELECTRIC CAR CHARGING STATION PER DETAIL 9, SHEET C-501. SEE ELECTRICAL PLAN FOR CHARGING STATION DETAILS.
- 18. INSTALL 6' HEIGHT WROUGHT IRON FENCE PER DETAIL 6, SHEET C-502 OR APPROVAL EQUAL.
- 20. CONSTRUCT 4' WIDE CONCRETE RUNDOWN PER DETAIL 5, SHEET C-502.
- 21. CONSTRUCT 18'-6" X 11'-8" CONCRETE FOUNDATION PAD FOR PREFABRICATED RESTROOM. SEE STRUCTURAL PLAN DETAIL A3, SHEET S-101 FOR FOUNDATION DETAIL & ARCHITECTURE SPECIFICATION FOR RESTROOM DETAILS.
- 22. CONSTRUCT 6' X 12'-6" CONCRETE EQUIPMENT PAD PER PNM STANDARD DETAIL FOR TRANSFORMER. SEE ELECTRICAL
- 23. CONSTRUCT 6' X 6' CONCRETE EQUIPMENT PAD PER PNM STANDARD DETAIL FOR ELECTRICAL SWITCH GEAR. SEE
- 24. NEW 24'-0" WIDE FLIGHT INFORMATION DISPLAY BOARD, SEE SPECIFICATIONS FOR DETAILS. SEE STRUCTURAL PLAN DETAIL A1 & B1, SHEET S-101 FOR FOUNDATION AND SIGN STRUCTURAL ELEVATION DETAILS. SEE ELECTRICAL PLAN
- 25. EXISTING CMU WALL TO REMAIN & PROTECTED THROUGH CONSTRUCTION.
- 26. INSTALL 1-1/2" WATER SERVICE LINE PER DETAIL 1, SHEET C-504. PROPOSED TIE-IN CONNECTION TO EXISTING 6"
- 27. INSTALL 1" WATER METER & BOX PER DETAIL 1 & 2, SHEET C-504. ENCASING 30'-0" LF OF NEW WATER SERVICE LINE IN 25 MIL POLYETHYLENE SLEEVE FROM BUILDING FOUNDATION.
- 28. CONNECTION POINT TO EXISTING SEWER MAIN, INSTALL 4" SEWER SERVICE LINE PER DETAIL 3, SHEET C-504. REMOVE & REPLACE EXISTING ASPHALT, CURB & GUTTER FOR SEWER SERVICE LINE CONSTRUCTION.
- 30. INSTALL DOUBLE SEWER CLEANOUT. INSTALL 30'-0" OF CONCRETE ENCASEMENT FOR SEWER SERVICE LINE FROM BUILDING FOUNDATION PER DETAIL 4, SHEET C-504. COA STANDARD DWG. 2140.
- 31. CONSTRUCT 6" CONCRETE MOW CURB PER COA STD. DWG. #2726.
- 32. FURNISH AND INSTALL 6' STEEL BENCH WITH BACKREST, MODEL 58-60 BY DUMOR, AVAILABLE FROM EXERPLAY, INC. (505) 280-0208, IN STANDARD POWDER COAT COLOR OPTION 'SUDAN' WITH VERTICAL STEEL STRAP SEAT AND INTERMEDIATE ARM RESTS. (OR APPROVED EQUIVALENT) SURFACE MOUNT WITH STAINLESS STEEL SEISMIC WEDGE ANCHORS, MINIMUM LENGTH: 5". ANCHOR DIAMETER TO MATCH ANCHOR HOLES ON FURNISHING ANCHOR POINTS.
- 33. FURNISH AND INSTALL 8' STEEL ACCESSIBLE PICNIC TABLE MODEL 443-82 BY DUMOR, AVAILABLE FROM EXERPLAY, INC. (505) 280-0208, IN STANDARD POWDER COAT COLOR OPTION 'SUDAN' WITH VERTICAL STEEL STRAP TOP AND SEAT. (OR APPROVED EQUIVALENT) SURFACE MOUNT WITH STAINLESS STEEL SEISMIC WEDGE ANCHORS, MINIMUM LENGTH: 5". ANCHOR DIAMETER TO MATCH ANCHOR HOLES ON FURNISHING ANCHOR POINTS. SECURE WITH BREAKAWAY NUTS.
- 34. FURNISH AND INSTALL WASTE RECEPTACLE. MODEL SHALL BE SECURR HS55 BY BEARSAVER, (888)671-7066, IN FOREST BROWN. (OR APPROVED EQUIVALENT) SURFACE MOUNT TO 36" X 36" CONCRETE SLAB CONSTRUCTED PER COA STD DWG #2425 WITH STAINLESS STEEL SEISMIC WEDGE ANCHORS, MINIMUM LENGTH: 5". ANCHOR DIAMETER TO MATCH ANCHOR HOLES ON FURNISHING ANCHOR POINTS. SECURE WITH BREAKAWAY NUTS.
- 35. FURNISH AND INSTALL PET WASTE STATION. WASTE STATION SHALL BE MODEL E3, SUPERIOR PEST WASTE ELIMINATOR STATION AS AVAILABLE FROM PET WASTE ELIMINATOR CO., (800) 790-8896. (OR APPROVED EQUIVALENT) EMBED
- 36. CONSTRUCT 5' WIDE CONCRETE SIDEWALK WITH TURN-DOWN EDGE AT LAWN SIDE PER DETAIL 3, SHEET C-501.
- 37. INSTALL 30" STOP SIGN PER COA STANDARD DETAIL DWG 2600-601, 2600-701 & 702, PER DETAIL 10, SHEET C-501.

- 40. CONSTRUCT 5' WIDE CONCRETE SIDEWALK PER DETAIL 3, SHEET C-501.
- 41. INSTALL UTILITY TRENCH VENTING FOR LANDFILL GAS PER DETAIL 1, SHEET C-505.
- 42. INSTALL LANDFILL GAS MITIGATION WELL PER DETAIL 2, SHEET C-505. SPACED 50'-0" OF CENTER 1'-0" AWAY AND
- 43. RELOCATED EXISTING "PEDESTRIAN CROSSING" & SPEED LIMIT SIGNS.
- 44. INSTALL "RIGHT TURN" ARROW PAVEMENT STRIPING.
- 47. INSTALL 4" WHITE DASHED PAVEMENT STRIPING FOR RIGHT TURN LANE.
- 48. INSTALL NO OVERNIGHT PARKING SIGN PER DETAIL 1, SHEET C-121.
- 49. CONSTRUCT LFG MONITORING PROBE 2' AWAY FROM THE CORNER OF BUILDING PAD PER DETAIL 7, SHEET C-502.





BOTANICAL NAME QTY MIN. INSTALLED SIZE CONTAINER MATURE SIZE ULMUS PARVIFOLIA 'EMER II' 2" CAL, 12'-14' HT B&B 30' HT & SPD

PINUS NIGRA MIN 5' HT 30' HT & SPD CHILOPSIS LINEARIS 'BUBBA' 2" CAL, 12'-14' HT 20' HT & SPD PISTACIA CHINENSIS MIN' 9' HT. MULTI. B&B 25' HT & SPD JUNIPERUS SCOPULORUM 20' HT & SPD MIN 5' HT B&B 30' HT & SPD QUERCUS BUCKLEYI 2" CAL, 12'-14' HT.

FALLUGIA PARADOXA MIN 18" HT 5-GAL 4' HT & SPD 4' HT & SPD **NOLINA MICROCARPA** MIN 18" HT CHRYSOTHAMNUS NAUSEOSUS 5' HT & SPD MIN 18" HT 2' HT X 5' SPD PRUNUS BESSEYI 'PAWNEE BUTTES' MIN 18" SPD MUHLENBERGIA RIGENS MIN 18" HT 4' HT & SPD SPROROBOLUS WRIGHTII MIN 18" SPD 5' HT X 5' SPD SCHIZACHYRIUM SCOPARIUM MIN 18" HT 2' HT & SPD 12' HT & SPD FORESTIERA NEOMEXICANA MIN 4' HT 15-GAL

ENGINEERED WOOD FIBER. SEE GENERAL

REPAIR EXISTING LAWN AS NEEDED. SEE

4" DEPTH 7/16" GRAVEL MULCH OVER FILTER FABRIC. SEE GENERAL NOTE D.

4" DEPTH 2-4" GRAVEL MULCH OVER FILTER FABRIC. SEE GENERAL NOTE E.

LANDSCAPE CALCULATIONS

NR-C: COMMERCIAL

IDO 14-16-5-6 AND PART 6-6-2 OF ROA 1994

26922 95409

PLANT KEYED NOTES

A. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITIES LISTED IN THE PLANT SCHEDULE AND THOSE SHOWN ON THE PLANTING PLAN, QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID. ADDITIONAL PAYMENT WILL NOT BE MADE FOR ANY DISCREPANCY IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT SCHEDULE.

MIN 18" HT

MIN 12" HT

MIN 18" HT

B. CONTRACTOR SHALL INSTALL 6" DEPTH OF ENGINEERED WOOD FIBER (EWF). EWF SHALL BE "TIMBER TOTS" AS AVAILABLE FROM OUT OF THE WOODS MANUFACTURING (505-877-0890). SEE NOTE

4' HT & SPD

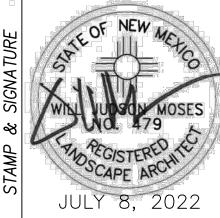
4' HT & SPD

4' HT X 5' SPD

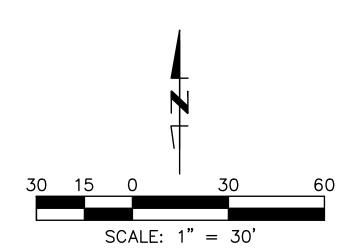
- C. CONTRACTOR SHALL REPAIR LAWN AREAS DAMAGED BY TRENCHING AND OTHER CONSTRUCTION ACTIVITIES BY SODDING THE AREAS ACCORDING TO COA STD. SPECIFICATIONS. SEE GENERAL NOTE B.
- D. CONTRACTOR SHALL INSTALL A 4" DEPTH OF 7/16" 'LUCY GOLD' GRAVEL MULCH AS AVAILABLE FROM RESTORATION GROUP INC (505-294-1470). INSTALL MULCH OVER OVER FILTER FABRIC, MIN. 3 OZ/SY NONWOVEN NEEDLE PUNCHED POLYPROPLYENE (MIRAFI MSCAPE OR EQUIVALENT). OVERLAP FABRIC ENDS 3", TURN DOWN EDGES 6". TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF GRAVEL MULCH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL INSTALL A 4" DEPTH OF 2-4" 'ROSESTONE' GRAVEL MULCH AS AVAILABLE FROM VULCAN MATERIALS (505-343-7800). INSTALL MULCH OVER OVER FILTER FABRIC, MIN. 3 OZ/SY NONWOVEN NEEDLE PUNCHED POLYPROPLYENE (MIRAFI MSCAPE OR EQUIVALENT). OVERLAP FABRIC ENDS 3", TURN DOWN EDGES 6". TOP OF GRAVEL MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF GRAVEL MULCH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- F. CONTRACTOR SHALL INSTALL A 12" DEPTH OF 8"-12" 'COYOTE MIST' COBBLE MULCH AS AVAILABLE FROM JPR GRAVEL (505-877-4913). INSTALL MULCH OVER OVER FILTER FABRIC, MIN. 3 OZ/SY NONWOVEN NEEDLE PUNCHED POLYPROPLYENE (MIRAFI MSCAPE OR EQUIVALENT). OVERLAP FABRIC ENDS 3", TURN DOWN EDGES 6". TOP OF COBBLE MULCH SHALL BE 1" BELOW TOP OF ADJACENT PAVING. PROVIDE SAMPLE OF GRAVEL MULCH FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- G. CONTRACTOR SHALL INSTALL A 4" DEPTH OF WOOD CHIP MULCH PER IDO 14-16-5-6(C)(5)(E). MULCH SHALL BE "WOOD MULCH" AS AVAILABLE FROM SOILUTIONS (505-877-0220). SEE NOTE K.
- H. FURNISH AND INSTALL 12 24 CF BLUE SAIS BOULDER AS AVAILABLE FROM NEW MEXICO TRAVERTINE, (505) 864-6300. BURY 1/3 OF BOULDER VOLUME.
- I. IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY BETWEEN THE CONTAINER SIZE LISTED UNDER "CONTAINER" AND HEIGHT & SPREAD LISTED UNDER "INSTALLED SIZE", THE SPECIFIED PLANT SHALL MEET HEIGHT & SPREAD REQUIREMENTS SPECIFIED UNDER "INSTALLED SIZE". IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, IT SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- J. TREES SHALL BE PLANTED PER COA STD DWG 2714. PLANT TREES IN TURF PER COA STD DWG 2713 AND TREES ON SLOPES PER COA STD DWG 2715. SHRUBS SHALL BE PLANTED PER COA STD DWG 2716. PLANT SHRUBS ON SLOPES PER COA STD DWG
- K. WHERE WOOD MUCH AND/OR WOOD FIBER SURFACING ARE SPECIFIED, CONTRACTOR SHALL INSTALL MULCH/SURFACING TO THE DEPTH SPECIFIED. CONTRACTOR SHALL ALLOW MULCH TO SETTLE FOR MIN. 28 DAYS. AT THE END OF THE SETTLEMENT PERIOD, CONTRACTOR SHALL APPLY ADDITIONAL MATERIAL AS NECESSARY TO ACHIEVE THE SPECIFIED DEPTH.



Date Date



AN N V 5 C	OMPANY			Re	REVIS	DES			
MAIL: 6501 Americas Pkwy NE., Ste. 300 Albuquerque, NM 87110	PHO: 505.212.9126 WEB: groundworkstudionm.com			No. Date			Designed By: TW/WM	Drawn By: TW	Checked By: WM



	CITY OF PUBLIC WO ENGINEERING		ARTME					
TITLE: ALBUQUERQUE INTERNATIONAL AIRPORT CELL PHONE PARKING LOT								
LA	NDSCAPE	PLANT	TING	PLAN				
Design Review Committ	ee City Engine	er Approval	Last Design Update	Mo./Day/Yr.	Mo./Da	y/Y		
City Project No. 6564.00—T4	Zone Map No 1 M — 16	Draw	ving No -101	Shee	et	C		