

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 11, 2025

Aaron Barnhart, PE
Wallace Design Collective, PC
9800 Pyramid Court, Suite 350
Englewood, CO 80112

COMMENT RESPONSES BY:
WALLACE DESIGN COLLECTIVE, PC
12/12/2025

**RE: Taco Bell – Snow Vista Blvd
Grading & Drainage Plan
Engineer’s Stamp Date: 8/8/2025
Hydrology File: M09D012D**

Dear Mr. Barnhart:

Based upon the information provided in your submittal received 11/24/2025, the Grading & Drainage Plan is not approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

SHEET C501 (Should be C502 since this is the second C501)

ACKNOWLEDGED. SHEET NAMING AND NUMBERING HAS BEEN UPDATED.

Please verify the weighted E and volume numbers. I couldn’t get the same results. Also, the weighted E dimension should be “ft” instead of “ac-ft”.

10-Year			100-Year		
Weighted E (ac-ft)	Volume (ac-ft)	Total Q _p (cfs)	Weighted E (ac-ft)	Volume (ac-ft)	Total Q _p (cfs)
0.055	0.083	2.21	0.120	0.181	4.34
10-Year			100-Year		
Weighted E (ac-ft)	Volume (ac-ft)	Total Q _p (cfs)	Weighted E (ac-ft)	Volume (ac-ft)	Total Q _p (cfs)
0.122	0.184	2.84	0.207	0.312	5.06
0.048	0.073	1.13	0.082	0.124	2.02
0.013	0.020	0.32	0.024	0.036	0.60
0.040	0.024	0.89	0.065	0.039	1.49
0.014	0.021	0.36	0.027	0.040	0.72

THIS TABLE HAS BEEN UPDATED. THE WEIGHTED E DIMENSION NOW HAS THE UNITS OF INCHES RATHER THAN FEET OR AC-FT. THIS CLOSELY MATCHES EQUATION 6.1 IN THE DPM.

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

CITY OF ALBUQUERQUE

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THIS PROJECT IS UNDER SWQ REVIEW
(M09E012D, SWQ-2025-00056).

(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.

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

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

SITE PLAN

TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

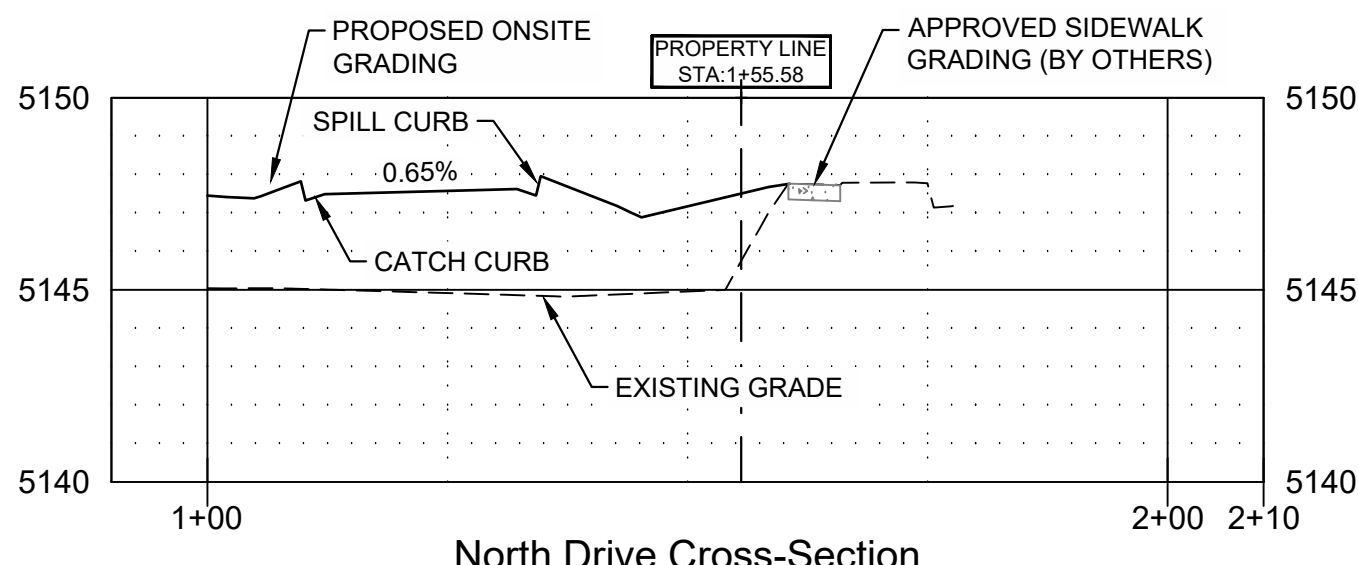
LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021

PROPERTY DESCRIPTION
TRACT A PLAT FOR TRACT A SNOW VISTA, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON 2022.

PROPERTY ADDRESS
1115 SNOW VISTA BLVD SW

- SWQV POND LANDSCAPING NOTES:**
- EACH POND IS TO BE STABILIZED BY SEED MIX.
 - SEED MIX TO BE EQUAL TO (LLANO ESTACADO WILDFLOWER SEED MIXTURE) AS SUPPLIED BY CURTIS AND CURTIS SEED. 4500 N PRINCE STREET, CLOVIS, NM 88101. SEED MIXTURE APPLICATION TO MEET THE REQUIREMENTS OF "SECTION 1013 SLOPE STABILIZATION AND SEEDING REQUIREMENTS" PROVIDED BY THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
 - REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

CAUTION: IF THIS SHEET IS NOT 22"x34" IT IS A REDUCED PRINT



NORTHERN DRIVE - GRADING CROSS-SECTION

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=5'

GRADING NOTES:

- SPOT ELEVATIONS SHOWN ARE TO GUTTER FLOW LINE. ADD 0.5' FOR TOP OF CURB ELEVATIONS
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED & INSPECTED AND APPROVED BY LOCAL AUTHORITIES.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
- SIDEWALKS SHALL HAVE MAX 2% CROSS SLOPE.

GRADING PLAN DESCRIPTION

EXISTING SITE GRADES GENERALLY SLOPE FROM NORTHWEST TO THE SOUTHERN CORNER OF THE OVERALL SUBDIVISION.

PROPOSED SITE GRADING SHALL TIE-IN WITH THE PROPOSED SIDEWALK FRONTAGE ALONG SNOW VISTA BLVD SW AND THE WESTERN SIDE OF THE LOT.

THE GRADING SHALL ALLOW FOR FUTURE LOT DEVELOPMENT TO THE NORTH AND SOUTH OF OUR SITE THAT FACILITATES DRAINAGE TOWARDS THE SOUTH OUTFALL, AN EXISTING 42" RCP.

LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
- REINFORCED CONCRETE PAD
- CONCRETE SIDEWALK
- RIPRAP
- EXISTING CONCRETE SIDEWALK
- 6" DEPRESSED CURB AND GUTTER
- STORM DRAIN
- DRAINAGE FLOW PATH
- STORM BASIN W/ LID
- CITY OF ALBUQUERQUE DRAINAGE STORM INLET TYPE "C" DWG. 2205
- SANITARY SEWER CLEANOUT

GRADING ELEVATION ABBREVIATIONS	
FF	FINISHED FLOOR
FG	FINAL GRADE
FL	FLOW LINE
TS	TOP OF SIDEWALK
GL	GUTTER LINE
TG	TOP OF GRATE
TR	TOP OF RIM
TP	TOP OF PAVEMENT
HP	HIGH POINT
LP	LOW POINT

TOTAL DISTURBED AREA	1.57 ACRES
PROJECT SITE AREA	1.51 ACRES
EXISTING IMPERVIOUS AREA	0.01 ACRES
EXISTING PERVIOUS AREA	1.50 ACRES
PROPOSED IMPERVIOUS AREA	0.92 ACRES
PROPOSED PERVIOUS AREA	0.59 ACRES

CAUTION

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



wallace design collective, pc
structural-civil-landscape-survey
9800 pyramid court, suite 350
englewood, co 80112
303.350.1690 - 800.344.5858



08/08/2025

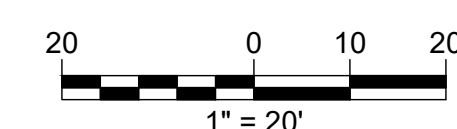
TACO BELL
98TH & SAGE
1115 SNOW VISTA BLVD SW
ALBUQUERQUE, NM



DATE	DESCRIPTION	REV

DATE: 08/08/2025
PROJECT NO.: 2175023
SHEET NAME:

GRADING PLAN
SHEET NO. **C500**



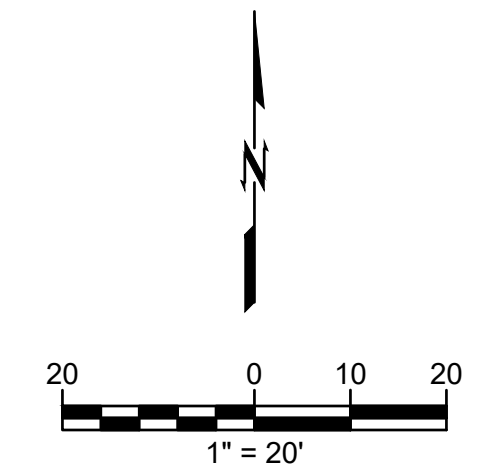
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SITE PLAN

TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

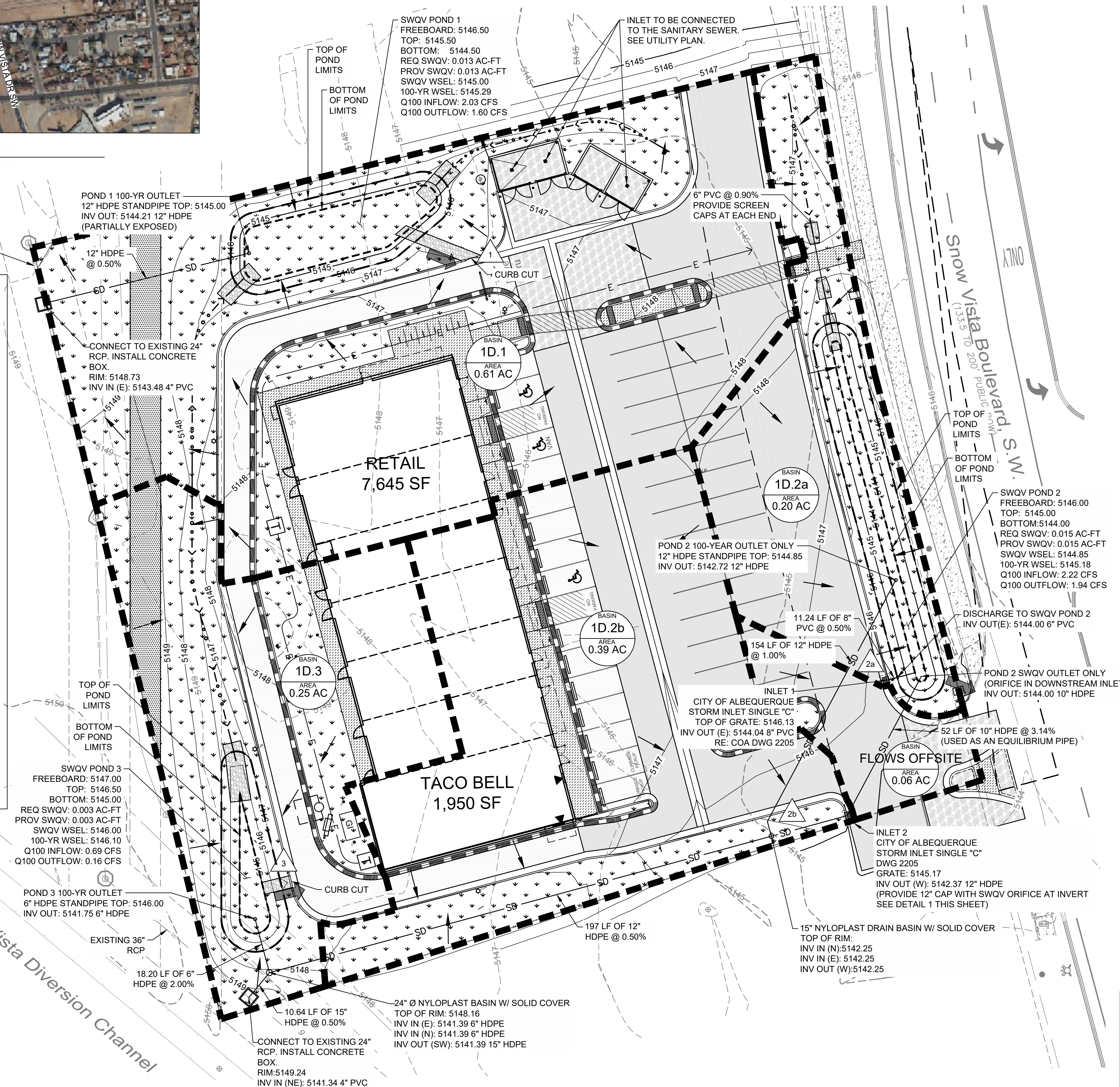
LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.
 ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021



VICINITY MAP
 1"=400'

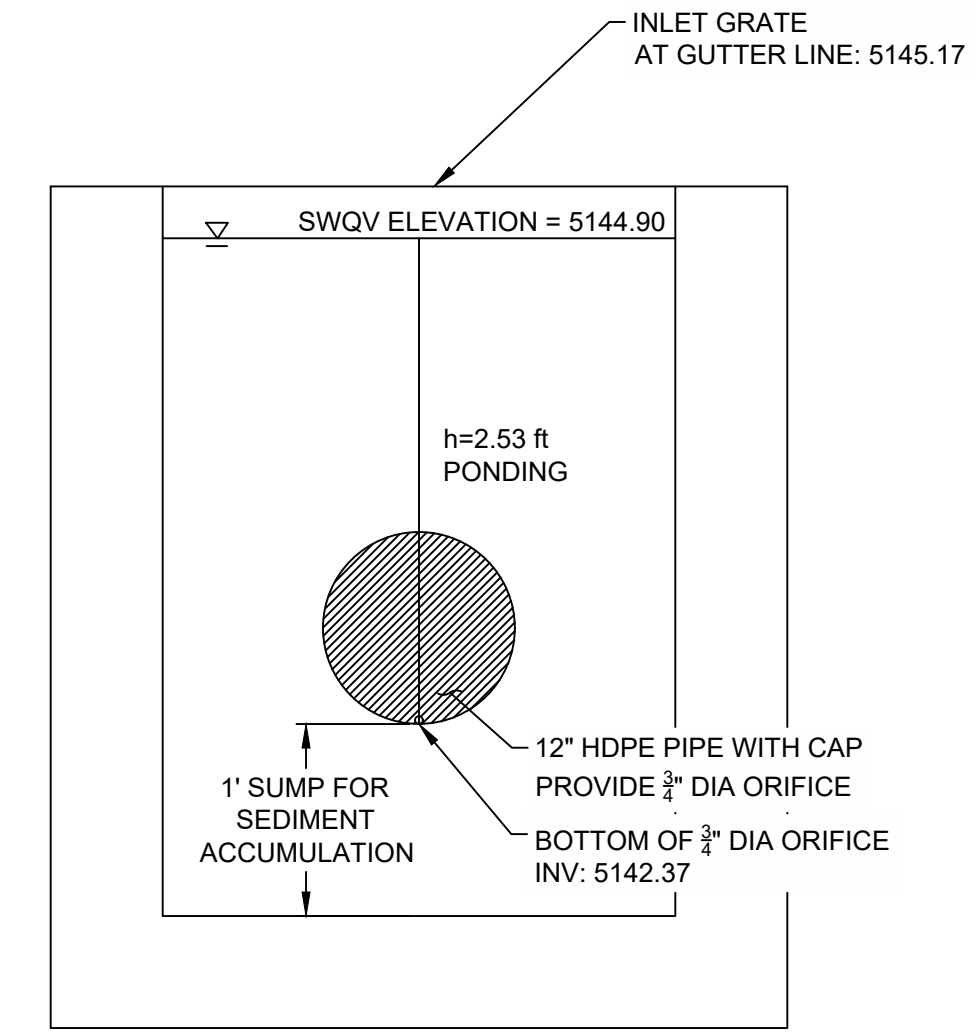
LEGEND

- STANDARD DUTY ASPHALT PAVEMENT
- REINFORCED CONCRETE PAD
- CONCRETE SIDEWALK
- RIPRAP
- EXISTING CONCRETE SIDEWALK
- 6" DEPRESSED CURB AND GUTTER
- SD STORM DRAIN
- DRAINAGE BASIN DELINEATION
- DRAINAGE FLOW PATH
- STORM BASIN W/ LID
- CITY OF ALBUQUERQUE DRAINAGE STORM INLET TYPE "C" DWG. 2205
- SANITARY SEWER CLEANOUT
- BASIN # BASIN ID
- AREA # AC BASIN AREA
- DRAINAGE DESIGN POINT
- EMERGENCY OVERFLOW POINT



100-YR STORM NOTE:
 POND 1, POND 2, AND POND 3 CONTAIN A STANDPIPE TO DISCHARGE THE 100-YR STORM INTO THE PRIVATE STORM INFRASTRUCTURE WITHOUT DETENTION.

EMERGENCY OVERFLOW NOTE:
 EMERGENCY OVERFLOWS FROM THE PONDS WILL OCCUR IF THE 100-YR OUTLET PIPE IS CLOGGED OR FOR A STORM EXCEEDING THE 100-YR EVENT. SEE EMERGENCY OVERFLOW POINTS ON THIS PLAN.



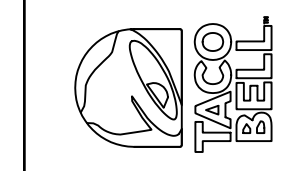
1 - INLET 2 SWQV ORIFICE DETAIL
 SCALE: N.T.S.

TOTAL DISTURBED AREA	1.57 ACRES
PROJECT SITE AREA	1.51 ACRES
EXISTING IMPERVIOUS AREA	0.01 ACRES
EXISTING PERVIOUS AREA	1.50 ACRES
PROPOSED IMPERVIOUS AREA	0.92 ACRES
PROPOSED PERVIOUS AREA	0.59 ACRES

TACO BELL

98TH & SAGE

1115 SNOW VISTA BLVD SW
 ALBUQUERQUE, NM



DATE	DESCRIPTION	REV

DATE: 08/08/2025
 PROJECT NO.: 2175023
 SHEET NAME:

DRAINAGE PLAN

SHEET NO.

C501

SITE PLAN

TACO BELL - SNOW VISTA BOULEVARD

ALBUQUERQUE, NM

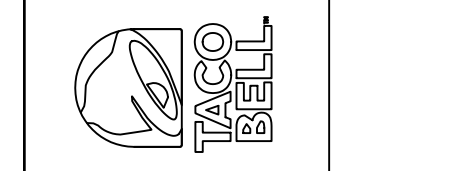
LOT 1D. TOWN OF ASTRICO GRANT, PROJECTED SECTION 33, TOWNSHIP 10 NORTH, RANGE 2 EAST, N.M.P.M.
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DECEMBER 2021



TACO BELL

98TH & SAGE

1115 SNOW VISTA BLVD SW
ALBUQUERQUE, NM



DATE

DESCRIPTION

REV

DATE 08/08/2025

PROJECT NO. 2175023

SHEET NAME

DRAINAGE PLAN

SHEET NO.

C501

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista Blvd Percent Imperviousness Calculations

Hydrologic Soil Group: A

	Pervious(sf)	% Total Area	Impervious(sf)	Impervious (ac)	% Total Area	Total (sf)	Total (ac)
Existing	65,173	99.3	446	0.01	0.7	65,619	1.51
Proposed	25,547	38.9	40,072	0.92	61.1	65,619	1.51
Change	-39,626	-60	39,626	0.91	60.4	0	0.00

BASIN	Total (sf)	Total (ac)
OVERALL SITE	65619	1.51
Landscape	25,547	0.59
Paved	30,475	0.70
Roof	9,597	0.22
Total	65,619	1.51
Site Imp.		58%

BASIN	Total (sf)	Total (ac)
ID.1	26457	0.61
Landscape	10,733	0.25
Paved	12,445	0.29
Roof	3,279	0.08
Total	26,457	0.61
Site Imp.		56%

Note: flows generated by an additional 1039 SF of offsite landscape drain to this basin

BASIN	Total (sf)	Total (ac)
ID.2a	8531	0.20
Landscape	4,488	0.10
Paved	4,043	0.09
Roof	0	0.00
Total	8,531	0.20
Site Imp.		46%

BASIN	Total (sf)	Total (ac)
ID.2b	17133	0.39
Landscape	2,995	0.07
Paved	10,010	0.23
Roof	4,128	0.09
Total	17,133	0.39
Site Imp.		75%

BASIN	Total (sf)	Total (ac)
ID.3	11076	0.25
Landscape	7,246	0.17
Paved	1,641	0.04
Roof	2,190	0.05
Total	11,076	0.25
Site Imp.		36%

* Percent Treatment D (impervious) values are obtained from Table 6.2.10 of the 2020 DPM.

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista: Runoff Calculations

Formulas and Values

Zone 1	10-Year (in)	100-Year (in)
E ₁	0.11	0.55
E ₂	0.26	0.73
E ₃	0.43	0.95
E ₄	1.43	2.24

Peak Discharge (cfs/acre) (Table 6.2.14)

Zone 1	10-yr	100-yr
Q ₁	0.30	1.54
Q ₂	0.81	2.16
Q ₃	1.46	2.87
Q ₄	2.57	4.12

Weighted E = E₁*A₁ + E₂*A₂ + E₃*A₃ + E₄*A₄ / (Total Area) Equation 6.1

V₁₀₀ = Weighted E * (Total Area) Equation 6.2

Q₁₀₀ = Q₁*A₁

Where x = Treatment areas (A - D) Equation 6.6

Total Q₁₀₀ = Sum (Q₁₀₀*A)

Existing Basin

Basin	Area (SF)	Area (Acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	10-Year Volume (ac-ft)	Total Q ₁₀ (cfs)	Weighted E (ac-ft)	100-Year Volume (ac-ft)	Total Q ₁₀₀ (cfs)		
EX-1	65,619	1.51	0%	0%	0%	99%	1.50	1%	0.0055	0.083	2.21	0.120	0.181	4.34

Proposed Basin

Basin	Area (SF)	Area (Acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	10-Year Volume (ac-ft)	Total Q ₁₀ (cfs)	Weighted E (ac-ft)	100-Year Volume (ac-ft)	Total Q ₁₀₀ (cfs)				
OVERALL SITE	65,619	1.51	0%	0%	39%	0.59	0%	0.00	0.61%	0.32	0.184	2.84	0.207	0.312	5.06	
ID.1	26,457	0.61	0%	0%	41%	0.25	0%	0.00	0.59%	0.36	0.048	0.073	1.13	0.082	0.124	2.02
ID.2a	8,531	0.20	0%	0%	53%	0.10	0%	0.00	0.47%	0.09	0.032	0.024	0.036	0.60		
ID.2b	17,133	0.39	0%	0%	17%	0.07	0%	0.00	0.83%	0.32	0.040	0.024	0.89	0.065	0.039	1.49
ID.3	11,076	0.25	0%	0%	65%	0.17	0%	0.00	35%	0.09	0.014	0.021	0.36	0.027	0.040	0.72

TABLE 6.2.10 Land Treatments

Land Treatment	Imperviousness (%)
Asphalt	95
Concrete	95
Gravel	95
Grass	5
Grass - Irrigated	10
Grass - Non-Irrigated	5
Gravel	95
Impervious	95
Landscaping	5
Landscaping - Irrigated	10
Landscaping - Non-Irrigated	5
Roof	95
Soil	5
Soil - Irrigated	10
Soil - Non-Irrigated	5
Water	5
Water - Irrigated	10
Water - Non-Irrigated	5

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista Blvd Stormwater Quality Volume Calculations

Site Imperviousness

Basin	Comp % Imp	Pervious(sf)	Impervious(sf)	Impervious (ac)	Total Area (sf)	Total Area (ac)
ID.1	56%	10,733	15,725	0.36	26,457	0.61
ID.2a	46%	4,488	4,043	0.09	8,531	0.20
ID.2b	75%	2,995	14,138	0.32	17,133	0.39
ID.3	36%	7,246	3,831	0.09	11,076	0.25
Overall Site	58%	25,547	40,072	0.92	65,619	1.51

Required SWQV (Article 6-12)

Basin	WQCV (in)	Imp. Area (acres)	Required SWQV (acre-ft)	Required SWQV (ft ³)
ID.1	0.42	0.36	0.013	590.36
ID.2a	0.42	0.09	0.003	141.50
ID.2b	0.42	0.32	0.011	494.82
ID.3	0.42	0.09	0.003	134.07
Overall Site	0.42	0.92	0.032	1402.51

Required SWQV = $\frac{WQCV}{12} \times Imp. Area$

Provided SWQV

Pond	Contributing Basins	Required SWQV (acre-ft)	Required SWQV (ft ³)	Provided SWQV (acre-ft)	Provided SWQV (ft ³)
Pond 1	ID.1	0.013	590.36	0.041	1785.96
Pond 2	ID.2a, ID.2b	0.015	636.32	0.021	914.76
Pond 3	ID.3	0.003	134.07	0.021	914.76
Overall Site	ID.1, ID.2a, ID.2b, ID.3	0.032	1402.51	0.083	3615.48

Taco Bell - Snow Vista Blvd
2175023
Calculated by: JEC
Checked by:

Taco Bell - Snow Vista Blvd Allowable Release Rate

TABLE 6.2.11 Peak Discharge

Zone	A	B	C	D
100-YEAR PEAK DISCHARGE (CFS/ACRE)	1.51	2.24	2.87	4.12
2-YEAR PEAK DISCHARGE (CFS/ACRE)	0.30	0.81	1.46	2.57
10-YEAR PEAK DISCHARGE (CFS/ACRE)	0.30	0.81	1.46	2.57

Land Treatment D

2-yr Peak Discharge	1.56 cfs/acre
10-yr Peak Discharge	2.57 cfs/acre
100-yr Peak Discharge	4.12 cfs/acre

Overall Site Area

Overall Site Area	1.51 acres
Allowable 2-year Release Rate	2.35 cfs
Allowable 10-year Release Rate	3.87 cfs
Allowable 100-year Release Rate	6.21 cfs

Taco Bell - Snow Vista Blvd Water Quality Control Volume Release Rate

Overall Site Required SWQV	1402.51 ft ³	
Allowable time to release	48 hrs	6-12(8)5)
Overall Site Allowable SWQV release rate	0.008 cfs	

Pond	Contributing Basins	Required SWQV (CF)	Allowable time to release (hours)	Allowable release rate (cfs)	Notes
Pond 1	ID.1	550.36	48	0.003	Infiltration Only
Pond 2	ID.2a, ID.2b	636.32	48	0.004	Infiltration + Orifice release
Pond 3	ID.3	134.07	48	0.001	Infiltration Only
Overall Site	ID.1, ID.2a, ID.2b, ID.3	1402.51	48	0.008	

TB Snow Vista

Prepared by Wallace Engineering
HydroCAD® 10.20-7a s/n 10086 © 2025 HydroCAD Software Solutions LLC

Type II 6-hr Rainfall=2.17" Printed 8/11/2025

Summary for Pond 1P: Pond 1

Inflow Area = 0.607 ac, 0.00% Impervious, Inflow Depth = 1.24"
Inflow = 2.03 cfs @ 2.94 hrs, Volume= 0.063 af
Outflow = 1.60 cfs @ 3.00 hrs, Volume= 0.050 af, Atten= 21%, Lag= 3.2 min
Primary = 1.60 cfs @ 3.00 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,145.29' @ 3.00 hrs Surf.Area= 1,429 sf Storage= 963 cf

Plug-Flow detention time= 40.1 min calculated for 0.050 af (79% of inflow)
Center-of-Mass det. time= 17.3 min (218.8 - 201.5)

Volume	Invert	Avail. Storage	Storage Description
#1	5,144.50'	1,276 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,144.50	1,028	0	0
5,145.00	1,264	573	573
5,145.50	1,549	703	1,276

Device	Routing	Invert	Outlet Devices
#1	Primary	5,145.00'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.57 cfs @ 3.00 hrs HW=5,145.29' (Free Discharge)
1=Orifice/Grate (Weir Controls 1.57 cfs @ 1.75 fps)

TB Snow Vista

Prepared by Wallace Engineering
HydroCAD® 10.20-7a s/n 10086 © 2025 HydroCAD Software Solutions LLC

Type II 6-hr Rainfall=2.17" Printed 8/11/2025

Summary for Pond 2P: Pond 2

Inflow Area = 0.589 ac, 0.00% Impervious, Inflow Depth = 1.47"
Inflow = 2.22 cfs @ 2.94 hrs, Volume= 0.072 af
Outflow = 1.94 cfs @ 2.98 hrs, Volume= 0.071 af, Atten= 13%, Lag= 2.1 min
Primary = 1.94 cfs @ 2.98 hrs, Volume= 0.071 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,145.18' @ 2.98 hrs Surf.Area= 1,245 sf Storage= 945 cf

Plug-Flow detention time= 120.9 min calculated for 0.071 af (98% of inflow)
Center-of-Mass det. time= 120.3 min (316.9 - 196.5)

Volume	Invert	Avail. Storage	Storage Description
#1	5,144.00'	2,238 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,144.00	374	0	0
5,144.50	732	277	277
5,145.00	1,103	459	735
5,146.00	1,902	1,503	2,238

Device	Routing	Invert	Outlet Devices
#1	Primary	5,144.85'	12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	5,144.00'	0.7" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.87 cfs @ 2.98 hrs HW=5,145.17' (Free Discharge)
1=Orifice/Grate (Weir Controls 1.85 cfs @ 1.85 fps)
2=Orifice/Grate (Orifice Controls 0.01 cfs @ 5.14 fps)

TB Snow Vista

Prepared by Wallace Engineering
HydroCAD® 10.20-7a s/n 10086 © 2025 HydroCAD Software Solutions LLC

Type II 6-hr Rainfall=2.17" Printed 8/11/2025

Summary for Pond 3P: Pond 3

Inflow Area = 0.254 ac, 0.00% Impervious, Inflow Depth = 0.98"
Inflow = 0.69 cfs @ 2.95 hrs, Volume= 0.021 af
Outflow = 0.16 cfs @ 3.09 hrs, Volume= 0.011 af, Atten= 78%, Lag= 8.7 min
Primary = 0.16 cfs @ 3.09 hrs, Volume= 0.011 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 5,146.10' @ 3.09 hrs Surf.Area= 659 sf Storage= 481 cf

Plug-Flow detention time= 70.8 min calculated for 0.011 af (53% of inflow)
Center-of-Mass det. time= 38.8 min (244.9 - 206.1)

Volume	Invert	Avail. Storage	Storage Description
#1	5,145.00'	792 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf. Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
5,145.00	249	0	0
5,145.50	413	168	168
5,146.00	605	255	420
5,146.50	881	372	792

Device	Routing	Invert	Outlet Devices
#1	Primary	5,146.00'	6.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.15 cfs @ 3.09 hrs HW=5,146.10' (Free Discharge)
1=Orifice/Grate (Weir Controls 0.15 cfs @ 1.01 fps)

ORIG SIZE: 22"x34"
PLOT: 8/12/2025 6:25:55 AM
I:\server\civil\projects\2175023 Taco Bell - ABQ - Snow Vista\DWG\PRODUCTION\2175023 Drainage Map.dwg