CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

December 4, 2025

John Measels, P.E.
JM Civil Engineering
1101 Central Expressway South, Suite 215
Allen, TX 75013

RE: Circle K
9800 De Vargas Rd SW
Grading and Drainage Plan
Engineer's Stamp Date: 11/12/2025
Hydrology File: M09D012A

Dear Mr. Measels:

Based upon the information provided in your submittal received November 12, 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

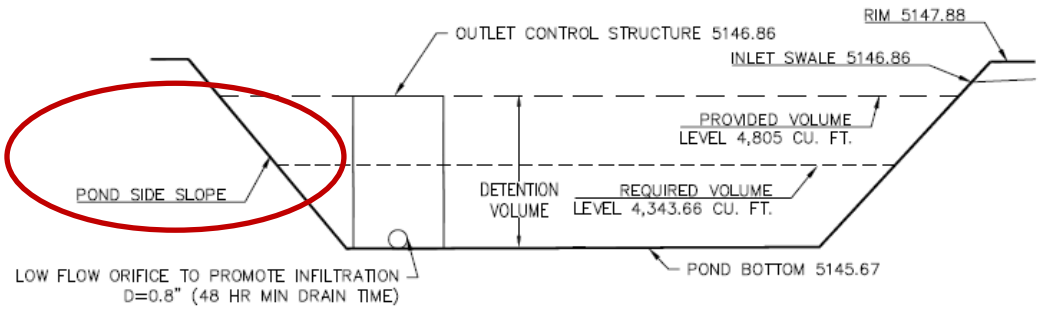
Albuquerque

NM 87103

www.cabq.gov

SHEET C510

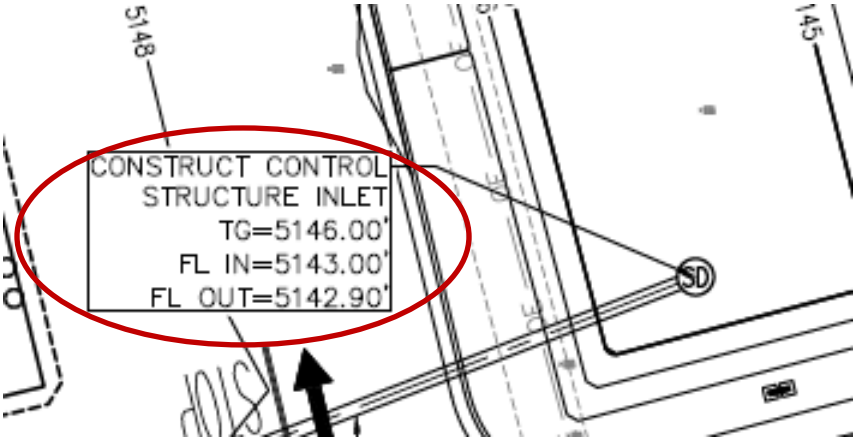
1. A waterblock, 0.87' high, per COA Paving Detail No. 2426, is required at the driveway entrances.
2. Pond side slope must be 3:1 or less.



DETENTION / INFILTRATION POND DIAGRAM
N.T.S.

SHEET C530

Please verify the control inlet elevations. TG should be 5146.86 according to sheet C510. FL elevations seem too low.



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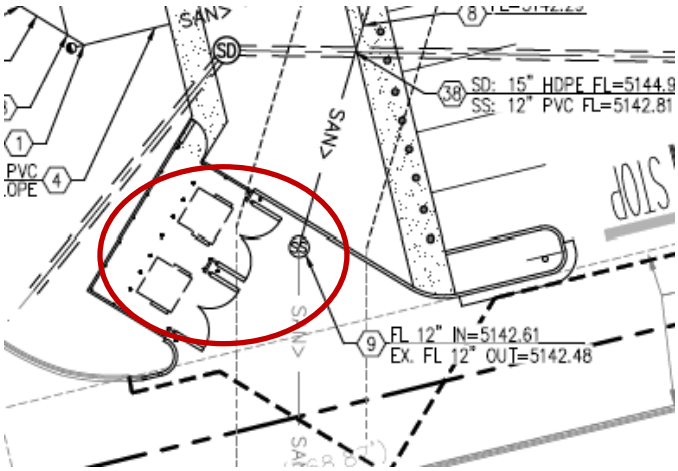
SHEET C600

The Albuquerque Bernalillo County Water Utility Authority (ABCWUA) has an updated policy wherein dumpster drains must be discharged through an interceptor before draining into the sanitary sewer system. This utility plan needs to be approved by the ABCWUA.



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.

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

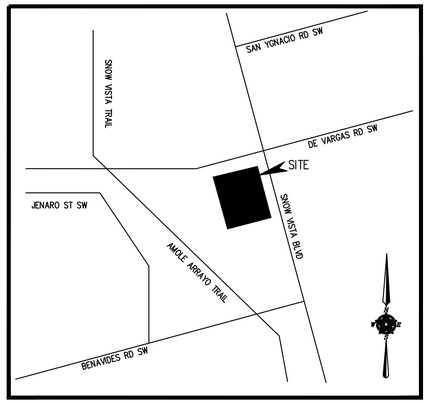
SITE DEVELOPMENT PLANS FOR

CIRCLE K

9800 DE VARGAS RD SW
ALBUQUERQUE, NM 87121

ZONING - NRC

SHEET INDEX



LOCATION MAP
NOT TO SCALE

OWNER/DEVELOPER:
CIRCLE K
CONTACT: OLIVIA EAGLESON
1130 W WARNER RD
TEMPE, AZ
602-728-8000

ENGINEER:
JM CIVIL ENGINEERING
CONTACT: JOHN MEASELS, PE (ENGINEER)
1101 CENTRAL EXPRESSWAY S., SUITE 215
ALLEN, TEXAS 75013
JMEASELS@JMCIVILENG.COM
(214) 491-1830

SURVEYOR:
CSI CARTESIAN SURVEYS INC.
CONTACT: BRIAN MARTINEZ
PO BOX 44414
RIO RANCHO, NM 87174
CARTISIANBRIAN@GMAIL.COM
505-896-3050

UTILITY CONTACTS

PLANNING
City of Albuquerque
Robert Webb
(505) 924-3910
rwebb@cabq.gov

STORM WATER
Anthony Montoya
505-924-3314
amontoya@cabq.gov

GAS
New Mexico Gas Company
Vincent Eramo
(505) 362-3179
vincent.eramo@nmgco.com

TELEPHONE/INTERNET
Jett Enterprises (Comcast Agent)
Tim Fyke
623-551-8595 (Office)
602-363-1109 (Mobile)
timfyke@jettenterprises.us

FIRE DEPARTMENT
City of Albuquerque Fire Department
Rogelio Rodriguez
(505) 924-3611
rogeliorodriguez@cabq.gov

ELECTRICITY
PNM New Service Delivery Program
Jacqulene Delgado
(505) 241-3425
jacqulene.delgado@pnm.com

Michael Moyer
(505) 241-3697
michael.moyer@pnm.com

WATER AND SEWER
Albuquerque Bernalillo County Water Utility Authority (ABCWUA)
Renee Brissette, P.E.
505-352-4479 (Mobile)
rbrissette@abcwua.org

CAUTION NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE 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 THE APPROPRIATE UTILITY COMPANY AT LEAST 7 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES HORIZONTALLY AND VERTICALLY WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

BENCHMARKS
ACS MONUMENT 2_L7 NAD 1983 CENTRAL ZONE– NAVD 1988. X=1486604.908 Y=1480475.091 ELEVATION=5415.511'

ACS MONUMENT 11L–10 NAD 1983 CENTRAL ZONE – NAVD 1988. X=1499894.295 Y=1479206.196 ELEVATION=5081.821'

FLOODNOTE
BASED UPON SCALING THIS PROPERTY LIES WITHIN FLOOD ZONE "X" WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD AS DETERMINED BY FEMA AND SHOWN ON THE FLOOD INSURANCE RATE MAP NO. 35001C0336H AS PER ALTA SURVEY

Know what's **below.**
Call before you dig.

INITIAL SUBMITTAL
DATE: 11/12/2025

JM CIVIL
1101 Central Expressway South
Suite 215
Allen, TX 75013

Ph. 214-491-1830

John Measels, PE
CIVIL ENGINEER

JOHN THOMAS MEASELS — NEW MEXICO — 16693 — PROFESSIONAL ENGINEER — "FOR REVIEW ONLY"

11/12/2025

COVER SHEET

CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

PROJECT NO: JM-DIM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/21/2025

C 001

J:\CIRCLE K\DIM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM–DIM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/21/2025 11:45 AM GAVIN KLENEBECKER

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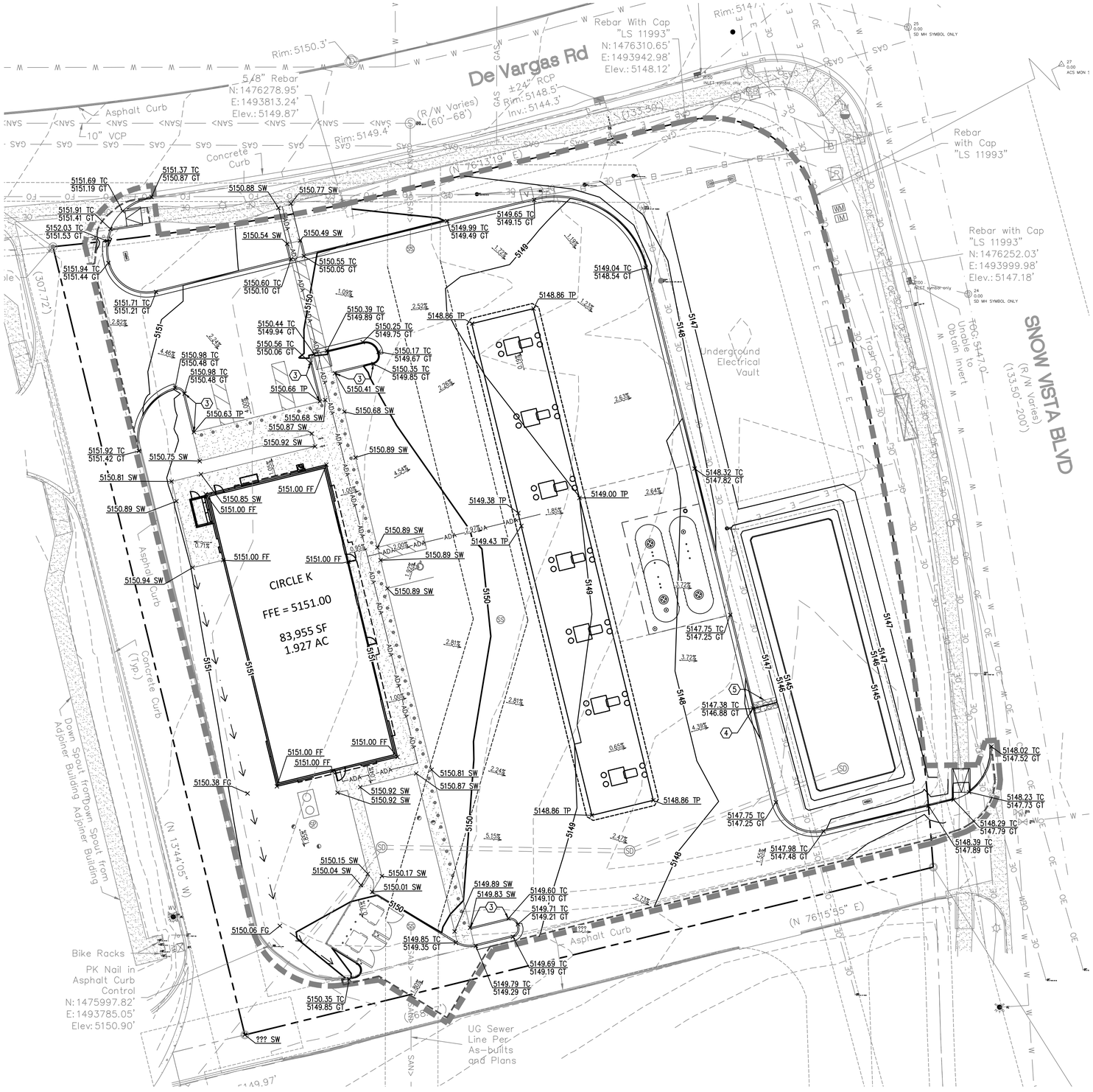

EXISTING LEGEND:

- PROPERTY LINE
- EX. EASEMENT
- EXISTING CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- W — EX. WATER LINE
- SAN — EX. SANITARY SEWER LINE
- OE — EX. OVERHEAD ELECTRIC LINE
- GAS — EX. GAS LINE
- T — EX. TELEPHONE LINE
- FO — EX. FIBER OPTIC LINE
- SD — EX. STORM DRAIN LINE
- EX. CONCRETE SURFACE
- EX. CURB INLET
- EX. STORM DRAIN MANHOLE
- P — EX. POWER POLE
- GV — EX. GAS VALVE
- WV — EX. WATER VALVE
- EX. FIRE HYDRANT

GRADING LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- XXX — EXISTING CONTOUR
- XXX — PROPOSED CONTOUR
- LIGHT POLE
- AREA DRAIN
- ACCESSIBLE SPACES
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- GREASE TRAP
- CLEAN-OUT
- DOUBLE CLEAN-OUT
- GM — GAS METER
- WM — WATER METER
- IM — IRRIGATION METER
- SS — MANHOLE
- CURB INLET
- × XXXX EX EXISTING SPOT ELEVATION
- × XXXX TP TOP OF PAVEMENT ELEVATION
- × XXXX TC TOP OF CURB / XXXX GT GUTTER
- × XXXX GR GROUND
- × XXXX FF FINISH FLOOR
- × XXXX SW SIDEWALK
- × XXXX TG TOP OF GRATE

GRADING KEY NOTES:

1. LIMITS OF FULL DEPTH SAW CUT.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. TAPER CURB FROM 6" TO 0".
4. 4' CURB CUT.
5. 4' RIP RAP CHANNEL.

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1101 Central Expressway South
Suite 215
Allen, TX 75013
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER

JOHN THOMAS MEASELS — NEW MEXICO — 16693 — PROFESSIONAL ENGINEER

11/12/2025

GRADING PLAN

CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

PROJECT NO: JM-DM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025

C 300

J:\CIRCLE K\DM25001 98TH DE VARGAS RD - ALBUQUERQUE, NM_CURRENT DRAWINGS\JM-DM25001 - 98TH & DE VARGAS, ALBUQUERQUE NM - 24X36 MASTER.DWG 11/20/2025 5:18 PM GAVIN KLEINEBECKER

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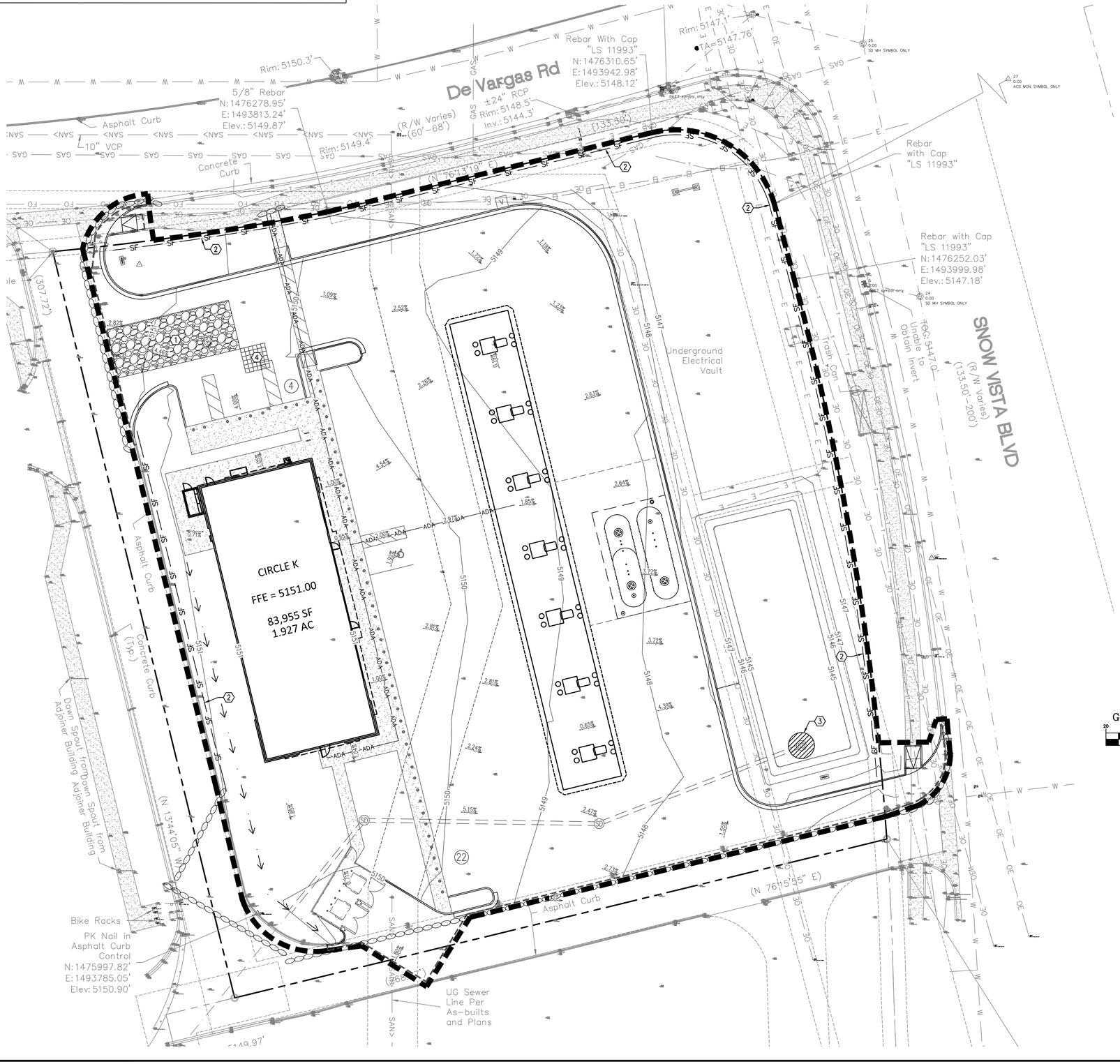

EROSION CONTROL LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SF — SILT FENCE
- APPROXIMATE LIMITS OF DISTURBANCE
- GRAVEL BAG FILTER
- FLOW LINE
- LIGHT POLE
- AREA DRAIN
- ACCESSIBLE SPACES
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- WM — WATER METER
- IM — IRRIGATION METER
- CURB INLET
- DRAINAGE SLOPE AND DIRECTION
- 10' X 10' CONCRETE WASH AREA
- TEMPORARY INLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE

EROSION CONTROL KEY NOTES:

1. TEMPORARY CONSTRUCTION ENTRANCE.
2. TEMPORARY SILT FENCE.
3. TEMPORARY INLET PROTECTION.
4. 10'x10' CONCRETE WASH AREA.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE AND SILT FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON THE EROSION CONTROL PLAN.

B. CONSTRUCT TEMPORARY INLET TREATMENT AROUND OPEN STORM DRAIN INLETS ACCORDING TO THE EROSION CONTROL PLAN.

C. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.

D. BEGIN CLEARING AND GRADING OF SITE.

E. INSTALL WATER, SANITARY SEWER AND STORM DRAIN AS SPECIFIED ON PLAN SHEETS.

F. PAVE STREETS AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

G. RE–VEGETATE LOTS, PARKWAYS AND ALL DISTURBED AREAS.

H. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.

MAINTENANCE:

A. CONTRACTOR TO KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE DURING CONSTRUCTION.

B. CONTRACTOR SHALL MAINTAIN ALONG WITH THE SIGNED EFFECTIVE COPY OF SWP3 DRAWINGS AN UPDATED LIST IDENTIFYING ALL POTENTIAL SOURCES OF POLLUTION INCLUDING PORTA–POTTYS, FUEL TANKS, STAGING AREAS, WASTE CONTAINERS, CHEMICAL STORAGE AREAS, CONCRETE CURE, PAINTS SOLVENTS, ETC., AND A DESCRIPTION OF THE LOCATION.

C. CONTRACTOR TO REMOVE ALL STORM WATER POLLUTION PREVENTION MEASURES AFTER CONSTRUCTION IS COMPLETE AND INSPECTED FOR APPROVAL. LONG TERM MAINTENANCE TO BE PROVIDED BY OWNER.

NOTES:

1. CONTRACTOR SHALL POLICE SITE REGULARLY AND AND KEEP SITE FREE OF TRASH AND CONSTRUCTION DEBRIS.
2. ALL EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN COMPLIANCE WITH CITY STANDARD EROSION CONTROL DETAILS
3. TOTAL DISTURBED AREA=1.93 ACRES.
4. REFER TO LANDSCAPE PLAN FOR FINAL GROUND STABILIZATION

EROSION AND SEDIMENT CONTROL CONSTRUCTION PHASING:	DURATION OF PHASE	APPROX. DATE FOR START OF EACH PHASE
1. TOP SOIL REMOVAL, CLEARING, GRUBBING AND PAVING REMOVAL	15 DAYS	TBD
2. GRADING.	30 DAYS	TBD
3. UTILITY INSTALLATION.	30 DAYS	TBD
4. PAVING.	30 DAYS	TBD
5. BUILDING CONSTRUCTION.	60 DAYS	TBD
6. FINE GRADING.	15 DAYS	TBD
7. LANDSCAPE AND VEGETATION.	15 DAYS	TBD
8. BMP REMOVAL.	5 DAYS	TBD

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

811 Know what's below. Call before you dig.

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1101 Central Expressway South
Suite 215
Allen, TX 75013
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER

JOHN THOMAS MEASELS NEW MEXICO 16693 PROFESSIONAL ENGINEER

11/12/2025

SOIL EROSION AND SEDIMENT CONTROL PLAN

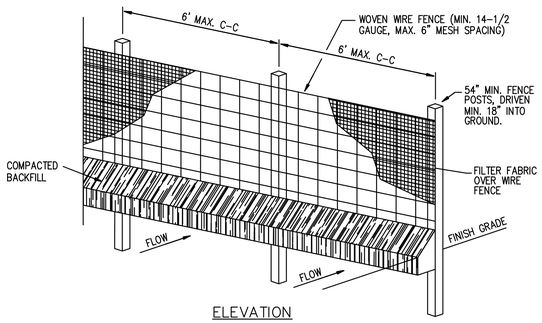
CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

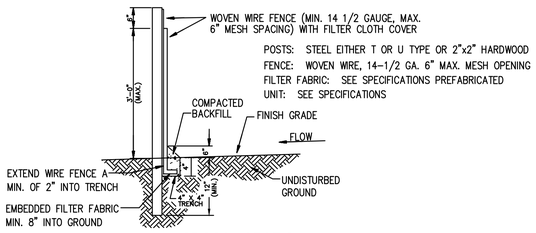
PROJECT NO: JM–DM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025

C 400

J:\CIRCLE K\DM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM–DM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/20/2025 5:18 PM GAVIN KLEINEBECKER



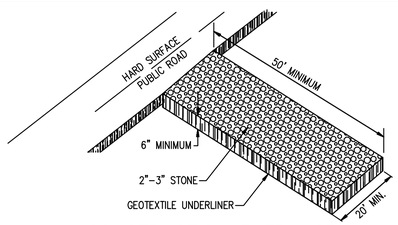
ELEVATION



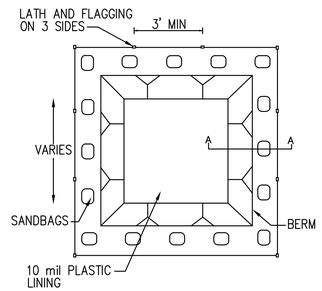
CROSS-SECTION

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
N.T.S.

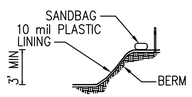


CONSTRUCTION ENTRANCE
N.T.S.

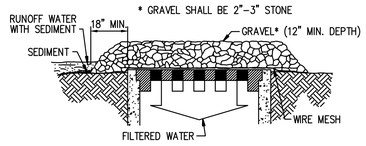


CONCRETE WASH OUT AREA
NTS

NOTES:
1. ACTUAL SIZE DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



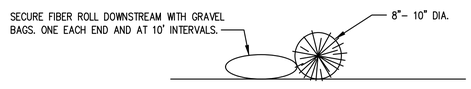
SECTION A-A
NTS



SPECIFIC APPLICATION

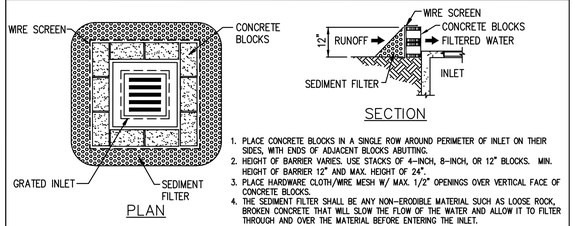
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED ACRES.

GRAVEL AND WIRE MESH INLET SEDIMENT FILTER
N.T.S.



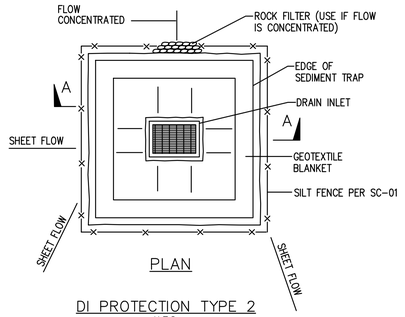
NOTES:
1. STRAW FIBER ROLL SHALL BE PLACED IN A POSITION WHERE RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

FIBER ROLLS (WATTLES)
N.T.S.

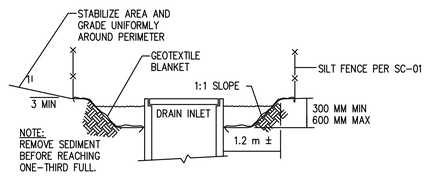


1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24".
3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE SEDIMENT FILTER SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK, BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT FILTER
N.T.S.



DI PROTECTION TYPE 2
N.T.S.



NOTES
1. FOR USE IN CLEARED AND GRUBBED AND IN GRADED AREAS.
2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP.
3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION FLOW.

CATCH BASIN INLET PROTECTION DETAIL
N.T.S.

BEST MANAGEMENT PRACTICES

1. STRUCTURAL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2. DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF STRUCTURAL CONTROLS, MATERIAL STORAGE AREAS, VEHICLE ENTRANCES AND EXITS: ACTIONS TAKEN AND INSPECTORS NAME.
3. CONSTRUCTION SITE NOTICE WILL BE MAINTAINED ON SITE
4. COPY OF SWPPP SHALL BE KEPT ON SITE
5. PERIMETER MUST RETAIN THE SWPPP, NOI AND INSPECTION LOG FOR A MINIMUM OF 3 YEARS FROM THE TERMINATION AND FINAL STABILIZATION OF PROJECT

I. WASTE MATERIALS
ALL WASTE MATERIALS INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURED LIDDED METAL DUMPSTER. NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS. ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING, COMPOUNDS AND ADDITIVES. IN EVENT OF SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPARTMENT AND NMED.

III. SANITARY WASTE
ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING
A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
B. NEATLY STORE MATERIALS ON-SITE IN A SECURE MANNER
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
D. DO NOT MIX SUBSTANCES WITH ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING OF THE CONTAINER
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROP USE AND DISPOSAL

VI. HAZARDOUS CONDITIONS
PRACTICES TO REDUCE RISKS:
A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURERS

VII. PETROLEUM PRODUCTS
PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED, ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER RECOMMENDATION.

VIII. SPILL CONTROL PRACTICES:
A. MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE WARE OF THE PROCEDURE
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

IX. MAINTENANCE AND INSPECTION PROCEDURES
ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 14 DAYS AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A RECORD OF THE RESULTS OF THE INSPECTIONS OF THE SITE SHALL BE KEPT ON-SITE

X. REMARKS
DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS, CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS

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CIVIL ENGINEER

JOHN THOMAS MEASELS NEW MEXICO 16693 PROFESSIONAL ENGINEER

11/12/2025

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	CPK

PROJECT NO: JM-DM25001
DRAWN BY: ASB, JK, CPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025

SOIL AND EROSION CONTROL DETAILS

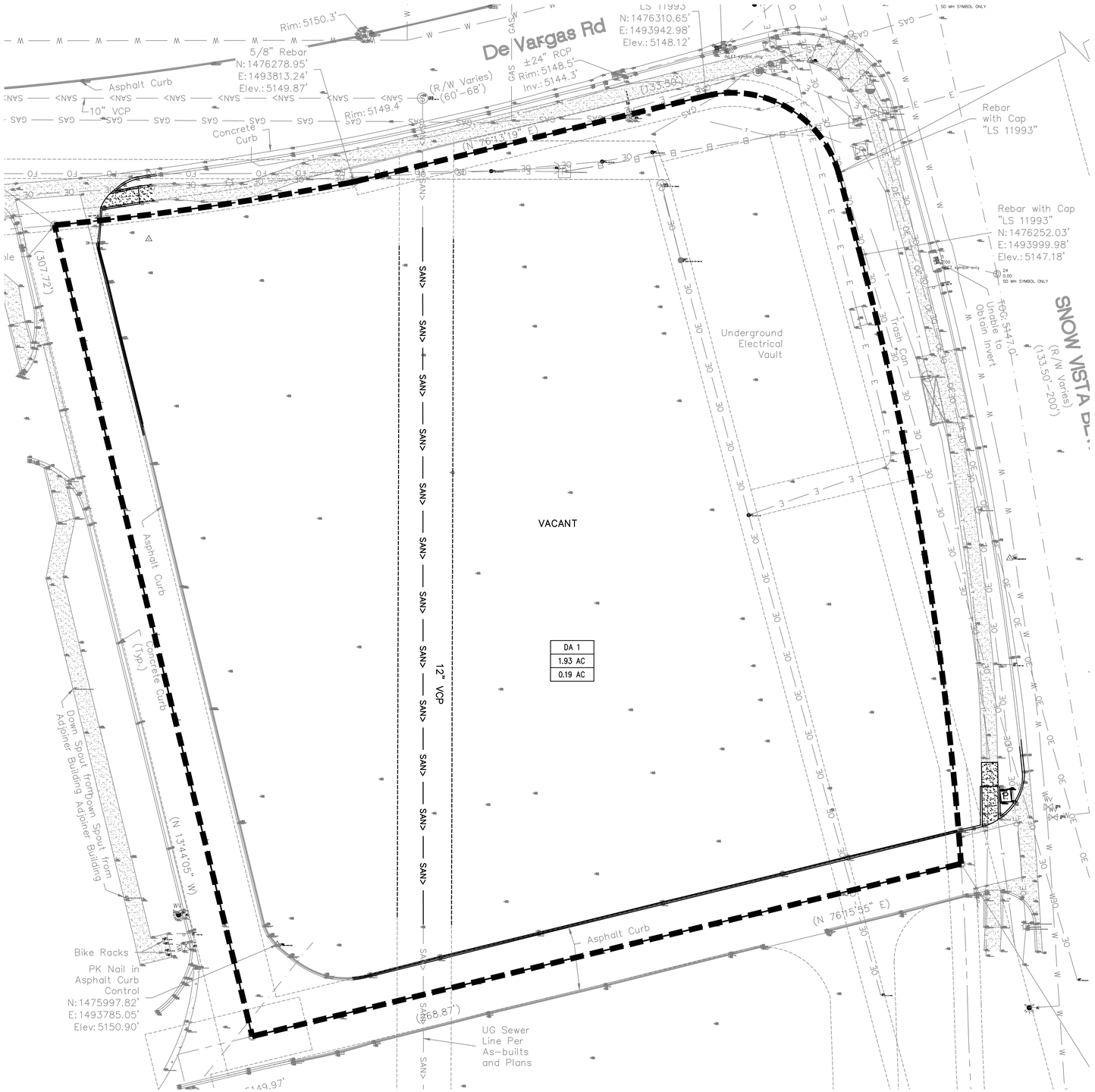
CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

C 410

J:\CIRCLE K\DM25001 98TH DE VARGAS RD - ALBUQUERQUE, NM_CURRENT DRAWINGS\JM-DM25001 - 98TH & DE VARGAS, ALBUQUERQUE NM - 24X36 MASTER.DWG 11/20/2025 5:17 PM GAVIN KLEINEBECKER

CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE 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 THE APPROPRIATE UTILITY COMPANY AT LEAST 7 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES HORIZONTALLY AND VERTICALLY WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

PRE DEV. DRAINAGE AREA MAP LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- XXX EXISTING CONTOUR
- XXX DRAINAGE DIVIDE
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- IM IRRIGATION METER
- SS MANHOLE
- CURB INLET
- DRAINAGE SLOPE AND DIRECTION
- LIGHT POLE
- AREA DRAIN
- GREASE TRAP
- CLEAN-OUT
- DOUBLE CLEAN-OUT
- GM GAS METER
- WM WATER METER

PRE DEVELOPMENT DRAINAGE AREA KEY:

DRAINAGE DIVIDE

X
X.XX AC
X.XX AC

X — Area
X.XX AC — Acreage
X.XX AC — IMPERVIOUS ACREAGE

DA1
A = 1.93 AC
C = 0.36
i = 4.27 IN/HR
Q = 2.97 CFS

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11/12/2025

PRE DEV DRAINAGE AREA MAP

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9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
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GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

POST DEV. DRAINAGE AREA MAP LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- EXISTING CONTOUR
- DRAINAGE DIVIDE
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- LIGHT POLE
- AREA DRAIN
- CURB INLET
- DRAINAGE SLOPE AND DIRECTION

POST DEVELOPMENT DRAINAGE AREA KEY:

- DRAINAGE DIVIDE

X
X.XX AC
X.XX AC

X — Area
X.XX AC — Acreage
X.XX AC — Impervious Acreage

SWM NARRATIVE:

AS AGREED UPON WITH CITY OF ALBUQUERQUE STAFF, THIS DEVELOPMENT AS PROPOSED IS WITHIN THE DESIGN PARAMETERS FOR DISCHARGE PER APPROVED DRAINAGE PLAN. AS SHOWN ON THE PRE/POST DEVELOPMENT DRAINAGE DIVIDES, THE GRADING AND STORM SEWER COLLECTION SYSTEM HONORS DESIGNED DISCHARGE POINTS. THE PROPOSED IMPERVIOUS AREA, THEREFOR, DISCHARGE IS LESS THAN THE ALLOWABLE. THIS DEVELOPMENT PROPOSES A C FACTOR OF 0.69. THIS MEANS SWM WAS NOT NEGATIVELY EFFECTED NOR ADDITIONAL CAPACITY/HGL ISSUES. PER WATER QUALITY TREATEMENT & FUEL DISPENSING ACTIVITIES, 0.62" FIRST FLUSH AS WELL AS FILTERING APPARATUS ARE REQUIRED. THAT HAS BEEN PROVIDED BY DETENTION/INFILTRATION BASIN WHICH HAS A DRAIN-DOWN TIME OF GREATER THAN 48 HRS. THEREFOR, ALL SWM REQUIREMENTS PER CITY OF ALBUQUERQUE HAVE BEEN MET.

0.62 INCHES / 12 INCHES/FOOT * 1.93 ACRES /43,560 SQ FT/ACRE = 4,343.66 CU FT

DEPTH = 1.19 FEET

48 HRS * 60 MIN/HR * 60 SEC/MIN = 172,800 SEC / (1/4,343.66 CU FT) = 0.025 CU FT/ SEC

Q = Cd * A * (2*g*H)^1/2

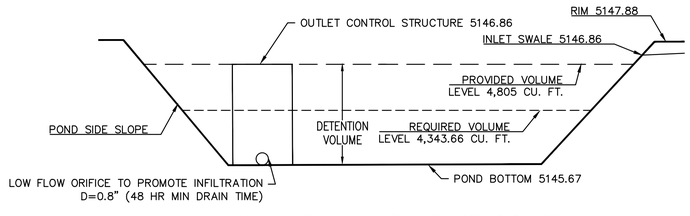
A = 051 IN^2

D = 0.81 IN

THEREFOR, AN ORIFICE OF 0.80 INCHES ALLOWS FOR GREATER THAN 48HR DRAIN-DOWN TIME.

REFERENCE:
SAGE PLAZA MASTER DRAINAGE SYSTEM

Elevation (ft)	Area (SQ FT)	Incremental Vol (CU-FT)	Cumulative Vol(CU-FT)	Cumulative Vol(AC-FT)
5145.67	3639	0	0	0.00
5146	3921	1247	1247	0.03
5146.86	4357	3558	4805	0.11



DETENTION / INFILTRATION POND DIAGRAM
N.T.S.

DA1
A = 1.93 AC
C = 0.69
i = 4.27 IN/HR
Q = 5.69 CFS

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11/12/2025

POST DEV DRAINAGE AREA MAP

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LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

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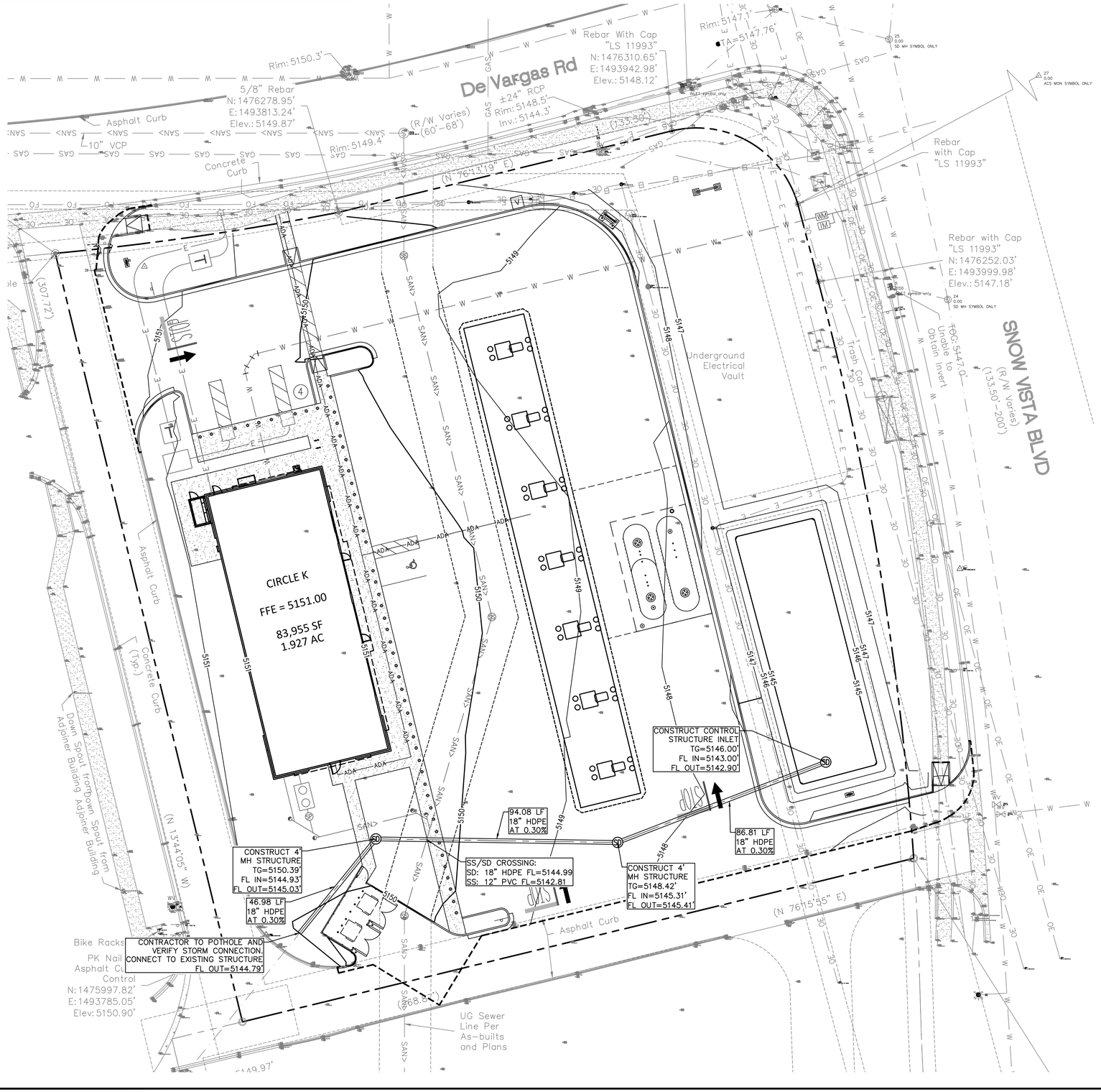
BENCHMARKS

ACS MONUMENT 2_L7 NAD 1983 CENTRAL ZONE– NAVD 1988. X=1486604.908 Y=1480475.091 ELEVATION=5415.511'

ACS MONUMENT 11L–10 NAD 1983 CENTRAL ZONE – NAVD 1988. X=1499894.295 Y=1479206.196 ELEVATION=5081.821'

FLOODNOTE

BASED UPON SCALING THIS PROPERTY LIES WITHIN FLOOD ZONE "X" WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD AS DETERMINED BY FEMA AND SHOWN ON THE FLOOD INSURANCE RATE MAP NO. 35001C0336H AS PER ALTA SURVEY



STORM DRAIN LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- EXISTING CONTOUR
- STORM DRAIN PIPE
- SANITARY SEWER LINE
- WATER LINE
- GAS LINE
- ELECTRIC SERVICE LINE
- TELEPHONE SERVICE LINE
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- IRRIGATION METER
- MANHOLE
- CURB INLET
- LIGHT POLE
- AREA DRAIN
- GREASE TRAP
- CLEAN-OUT
- DOUBLE CLEAN-OUT
- GAS METER
- WATER METER

STORM CALCULATIONS:

Q = 5.69 CFS
D = 18 IN.
n = 0.012
SLOPE = 0.30%
V = 4.24

GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 inch = 10 ft.

PIPING MATERIAL SCHEDULE

STORM SEWER SMALLER THAN 12"	SDR-35 PVC PER ATSM D3034
STORM SEWER – 12" OR LARGER (PRIVATE)	DUAL WALLED HDPE, AASHTO M252 &M294
STORM SEWER – WITHIN PUBLIC EASEMENT OR RIGHT-OF-WAY.	RCP, C-76, CLASS III

CONTRACTOR TO VERIFY EXISTING SANITARY SEWER & STORM DRAIN ELEVATIONS, AND UTILITY CONNECTIONS WITHIN 14 DAYS OF GROUNDBREAKING.

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11/12/2025

STORM DRAIN PLAN

CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

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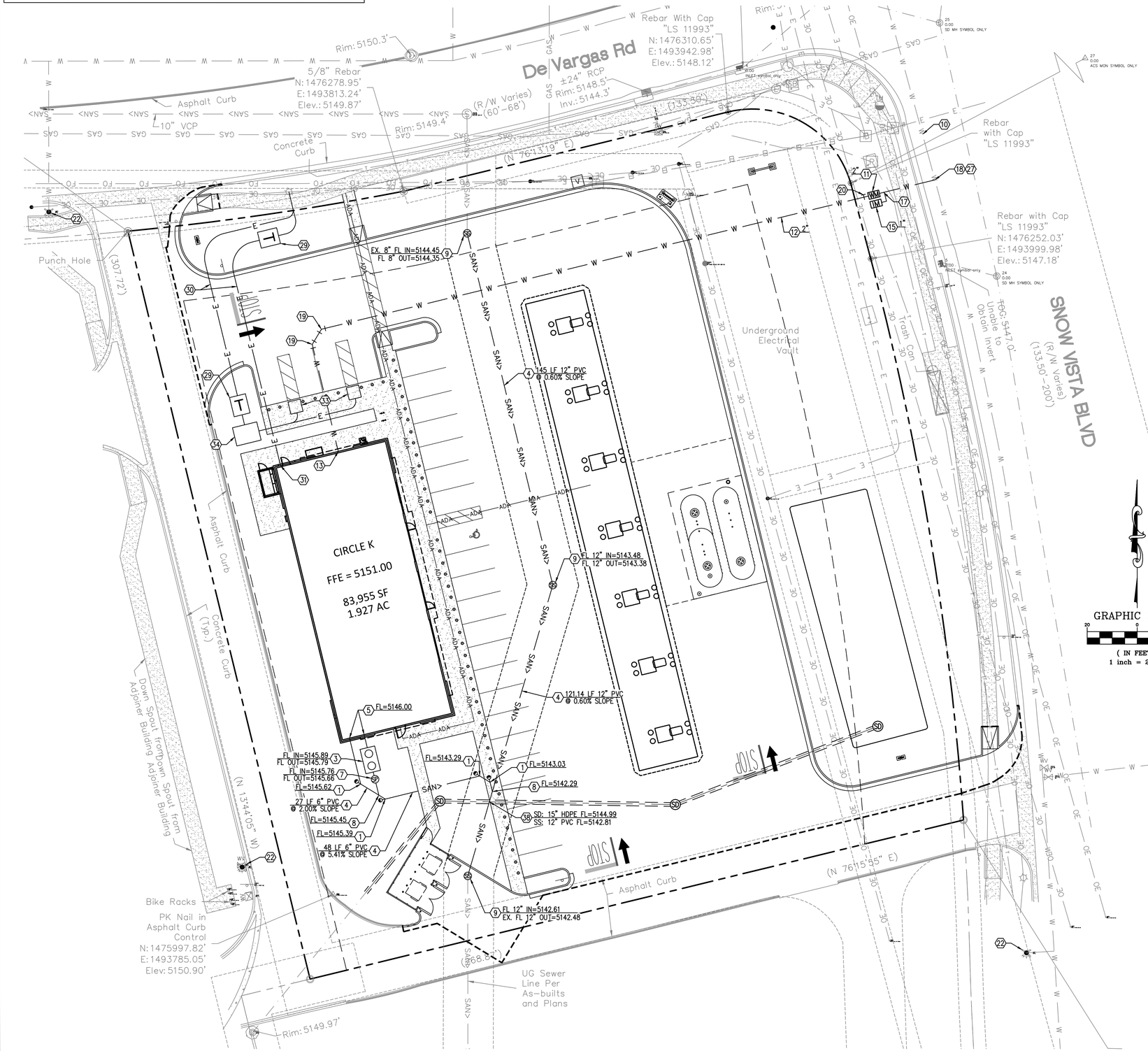

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

UTILITY LEGEND:

- PROPERTY LINE
- PROPOSED CURB & GUTTER
- LIMITS OF FULL DEPTH SAWCUT
- EXISTING CONTOUR
- STORM DRAIN PIPE
- SAN> SANITARY SEWER LINE
- W W WATER LINE
- GAS GAS LINE
- E ELECTRIC SERVICE LINE
- T TELEPHONE SERVICE LINE
- DOM DOMESTIC WATER SERVICE LINE
- FIRE FIRE LINE
- ADA RAMP
- BOLLARD
- TRAFFIC SIGN
- BOLLARD MOUNTED ACCESSIBLE SIGN
- IM IRRIGATION METER
- SS MANHOLE
- CURB INLET
- LIGHT POLE
- AREA DRAIN
- GREASE TRAP
- CLEAN-OUT
- DOUBLE CLEAN-OUT
- GM GAS METER
- WM WATER METER

UTILITY KEY NOTES:

1. SANITARY SEWER CLEAN–OUT.
2. SANITARY SEWER DOUBLE CLEAN–OUT.
3. GREASE TRAP. (UNIT SPECIFICATIONS PER MEP PLANS)
4. SANITARY SEWER LINE. (SEE NOTE FOR TYPE, SIZE AND SLOPE)
5. SANITARY SEWER POINT OF ENTRY. (PER MEP PLANS)
6. SANITARY SEWER POINT OF CONNECTION. (CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION)
7. SANITARY SEWER SAMPLE PORT. (UNIT SPECIFICATIONS PER MEP PLANS)
8. SANITARY SEWER WYE.
9. SANITARY SEWER MANHOLE PER CITY STANDARDS.
10. WATER MAIN LINE. (SEE NOTE FOR SIZE)
11. DOMESTIC WATER METER. (SEE NOTE FOR SIZE)
12. DOMESTIC WATER LINE. (SEE NOTE FOR SIZE)
13. DOMESTIC WATER LINE POINT OF ENTRY. (PER MEP PLANS)
14. DOMESTIC WATER LINE POINT OF CONNECTION.
15. IRRIGATION WATER METER. (SEE NOTE FOR SIZE)
16. IRRIGATION WATER LINE. (SEE NOTE FOR SIZE)
17. IRRIGATION WATER LINE POINT OF CONNECTION.
18. 6"X6" TAPPING SLEEVE AND 6" VALVE. (PER LOCAL CODES)
19. M.J. BEND. (SEE NOTE FOR SIZE)
20. WATER VALVE. (SEE NOTE FOR SIZE)
21. REDUCED PRESSURE BACKFLOW PREVENTER.
22. EXISTING FIRE HYDRANT.
23. REMOTE FIRE DEPARTMENT CONNECTION. (PER LOCAL CODES)
24. FIRE LINE. (SEE NOTE FOR SIZE)
25. FIRE LINE POINT OF ENTRY.
26. FIRE LINE POINT OF CONNECTION.
27. CONTRACTOR SHALL COORDINATE WITH WATER UTILITY DEPARTMENT TO ENSURE THAT SERVICE IS NOT INTERRUPTED AT ANY TIME.
28. PROPOSED LIGHT POLE.
29. PAD MOUNTED TRANSFORMER.
30. UNDERGROUND ELECTRIC LINE. (COORDINATE WITH ELECTRIC COMPANY FOR CONDUIT SIZES)
31. METERING EQUIPMENT AND ELECTRIC LINE POINT OF ENTRY. (PER MEP PLANS)
32. ELECTRIC LINE POINT OF CONNECTION.
33. E.V. EQUIPMENT PER M.E.P. PLANS.
34. E.V. SWITCHGEAR PER M.E.P. PLANS.
35. UNDERGROUND TELEPHONE LINE ~ 2–1" CONDUITS. (VERIFY SIZE WITH TELEPHONE COMPANY)
36. TELEPHONE LINE POINT OF ENTRY. (PER MEP PLANS)
37. TELEPHONE LINE POINT OF CONNECTION.
38. STORM/SANITARY PIPE CROSSING.

UTILITY NOTES:

1. WATER LINE AND SANITARY SEWER LINE MATERIALS SHALL BE ACCORDING TO THE ABCWUA SPECIFICATIONS. THE ABCWUA MATERIAL SPECIFICATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER REFERENCED STANDARDS AND SPECIFICATIONS.
2. COORDINATE WITH ABCWUA PRIOR TO PERFORMING ANY WORK ON CONNECTIONS TO EXISTING WATER OR SEWER LINES.
3. THE CONTRACTOR SHALL FIELD–VERIFY (POTHOLE) THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
4. CONNECTIONS TO EXISTING SANITARY SEWER AND WATER LINES SHALL BE PERFORMED DURING NIGHTTIME HOURS WHEN SYSTEM DEMAND IS AT ITS LOWEST. THE DURATION OF THE SHUTDOWN SHALL BE KEPT TO AN ABSOLUTE MINIMUM. COORDINATE THE SHUTDOWN SCHEDULE AND WORKING HOURS WITH ABCWUA IN ADVANCE.

SITE PIPING MATERIAL SCHEDULE

SANITARY SEWER – SMALLER THAN 4"	SCHEDULE 40 PVC
SANITARY SEWER – 4" AND LARGER	SDR–26 PVC. PER ASTM D–3034.
WATER LINE SMALLER THAN 4"	SCHEDULE 40 PVC AS PER ATSM D1785
WATER LINE 4" – 12"	PVC CLASS 150, DR–18, AWWA C–900

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11/12/2025

UTILITY PLAN

CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

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C 600

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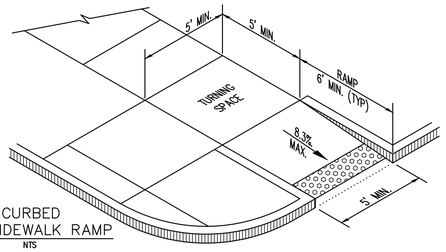
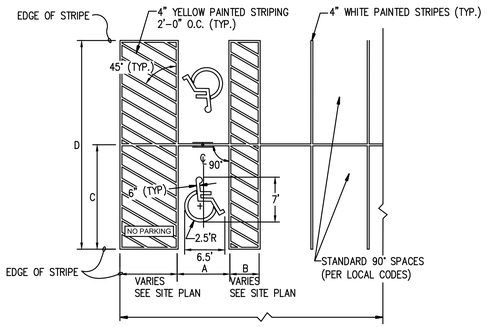


CURBED
ADA SIDEWALK RAMP
NTS

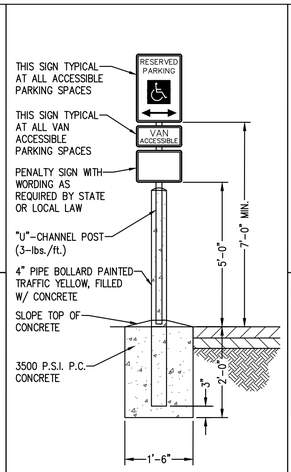


MINIMUM DIMENSION CHART		
A	8' (VAN 8')	8' (VAN 8')
B	5' (VAN 8')	5' (VAN 8')
C	18'	20'
D	36'	40'

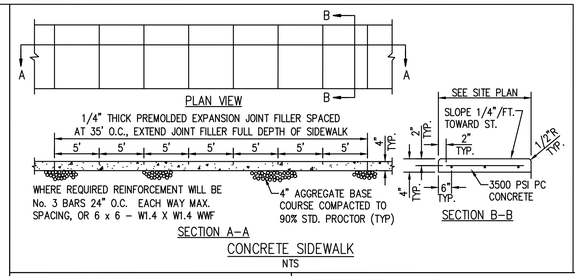
NOTE: ALL DIMENSIONS ARE TO ℄ OF STRIPE UNLESS OTHERWISE INDICATED

NOTE: SEE SITE PLAN FOR TOTAL LAYOUT

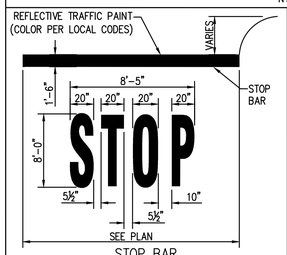
90° ACCESSIBLE PARKING SPACE STRIPING
NTS



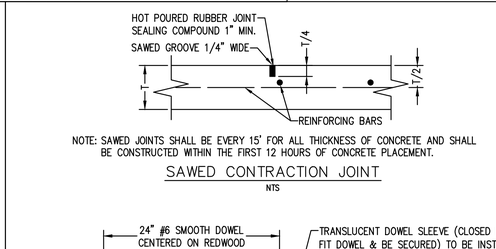
ACCESSIBLE PARKING SIGN
NTS



CONCRETE SIDEWALK
NTS

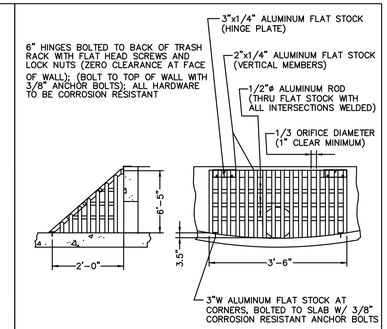


STOP BAR
NTS



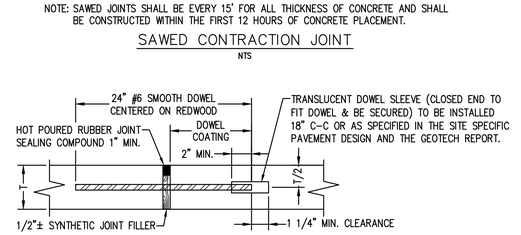
NOTE: SAWED JOINTS SHALL BE EVERY 15' FOR ALL THICKNESS OF CONCRETE AND SHALL BE CONSTRUCTED WITHIN THE FIRST 12 HOURS OF CONCRETE PLACEMENT.

SAWED CONTRACTION JOINT
NTS



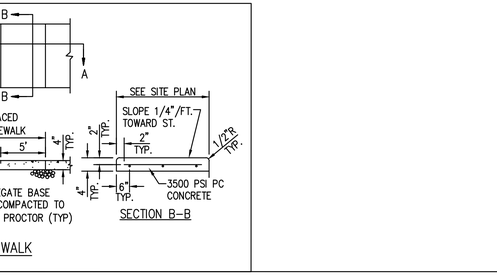
NOTES:
1) ALUMINUM TO BE 6061–T6 GRADE. ALL WELDED CONSTRUCTION.
2) SUITABLE TRASH RACK OF SIMILAR DIMENSION MAY BE SUBSTITUTED.

TRASH RACK FOR ORIFICE
TRASH.DWG NOT TO SCALE



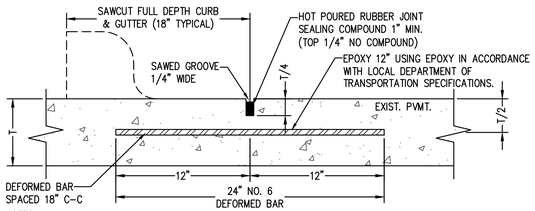
NOTES:
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. SLEEVES FOR DOWELS SHALL HAVE AN INSIDE DIAMETER OF 1/16" GREATER THAN THE DIAMETER OF THE DOWELS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
3. EXPANSION JOINTS TO BE CONSTRUCTED A MAXIMUM OF 400' APART ON STRAIGHT PAVING, AS WELL AS INTERSECTION P.C.'S & P.T.'S UNLESS OTHERWISE SPECIFIED.
4. REBAR BASKET FOR EXPANSION JOINTS IS REQUIRED.

EXPANSION JOINT
NTS



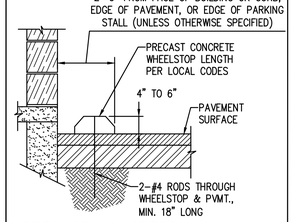
NOTE: REINFORCING SHALL BE AS SPECIFIED IN THE SITE SPECIFIC PAVEMENT DESIGN AND THE GEOTECH REPORT.

CONSTRUCTION JOINT
NTS

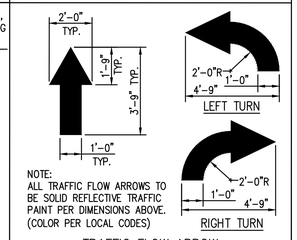


NOTES:
1. DEFORMED BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF MECHANICAL RIG. ALL DRILLED DEFORMED BARS SHALL BE EPOXIED.
2. HAND DRILLING IS NOT ACCEPTABLE, PUSHING DEFORMED BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
3. REINFORCING SHALL BE AS SPECIFIED IN THE SITE SPECIFIC PAVEMENT DESIGN AND THE GEOTECH REPORT.

LONGITUDINAL BUTT JOINT
NTS

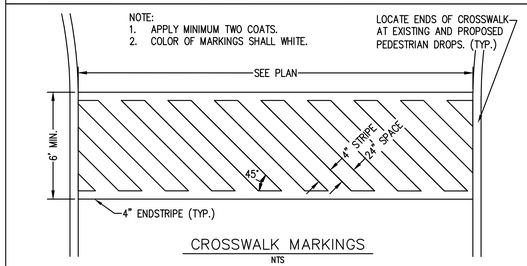


PRECAST CONCRETE WHEELSTOP
NTS

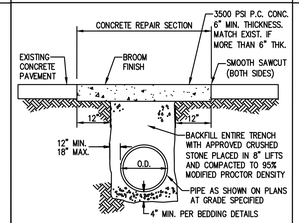


NOTE:
ALL TRAFFIC FLOW ARROWS TO BE SOLID REFLECTIVE TRAFFIC PAINT PER DIMENSIONS ABOVE. (COLOR PER LOCAL CODES)

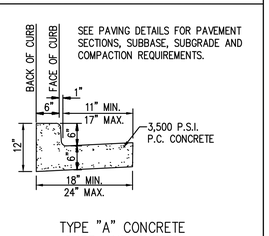
TRAFFIC FLOW ARROW
NTS



CROSSWALK MARKINGS
NTS

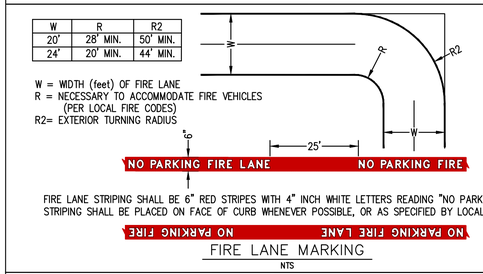


CONCRETE STREET OR
DRIVE CUT / REPAIR
NTS



TYPE "A" CONCRETE
CURB AND GUTTER
NTS

W	R	R2
20'	28' MIN.	50' MIN.
24'	20' MIN.	44' MIN.

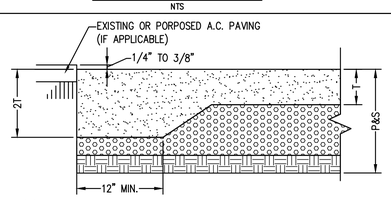


W = WIDTH (feet) OF FIRE LANE
R = NECESSARY TO ACCOMMODATE FIRE VEHICLES (PER LOCAL FIRE CODES)
R2= EXTERIOR TURNING RADIUS

FIRE LANE STRIPING SHALL BE 6" RED STRIPES WITH 4" INCH WHITE LETTERS READING "NO PARKING FIRE LANE" STRIPING SHALL BE PLACED ON FACE OF CURB WHENEVER POSSIBLE, OR AS SPECIFIED BY LOCAL CODES.

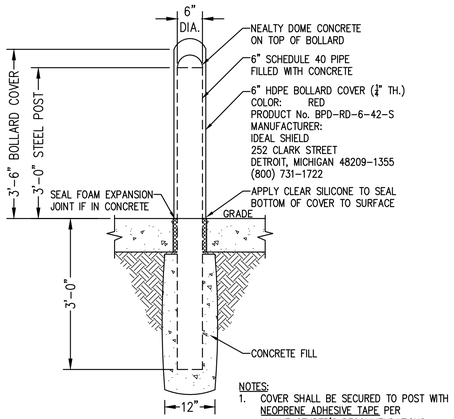
NO PARKING FIRE LANE NO PARKING FIRE

FIRE LANE MARKING
NTS



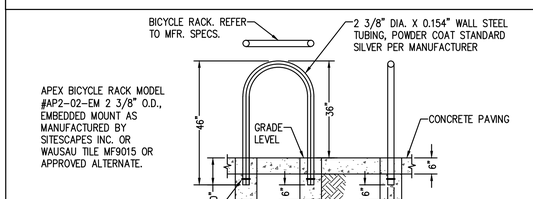
"T" = PROPOSED CONCRETE PAVEMENT THICKNESS.
"P&S" = PAVING BASE AND SUBGRADE AS SPECIFIED IN THE SITE SPECIFIC PAVEMENT DESIGN AND GEOTECH REPORT.

THICKENED EDGE OF PAVING
N.T.S.



NOTES:
1. COVER SHALL BE SECURED TO POST WITH NEOPRENE ADHESIVE TAPE PER MANUFACTURER'S RECOMMENDATIONS.

STEEL BOLLARD WITH COVER
NTS



BIKE RACK
NTS

JM CIVIL
1101 Central Expressway South
Suite 215
Allen, TX 75013
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER

JOHN THOMAS MEASELS — NEW MEXICO — 16893 — PROFESSIONAL ENGINEER

11/12/2025

DETAILS

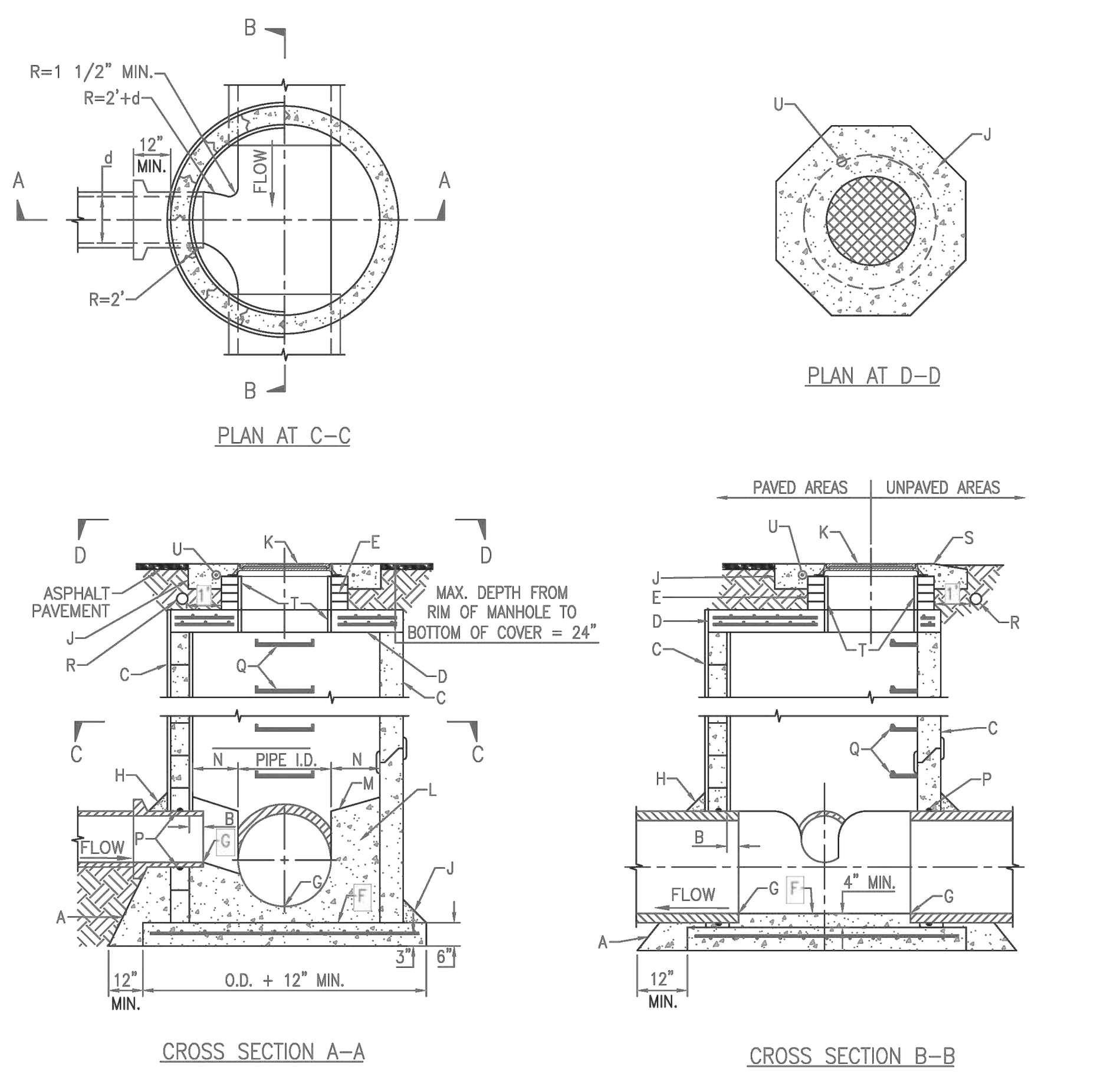
CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

PROJECT NO: JM-DIM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025
DETAILS

C 700

J:\CIRCLE K\DIM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM-DIM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/20/2025 5:18 PM GAVIN KLEINEBECKER



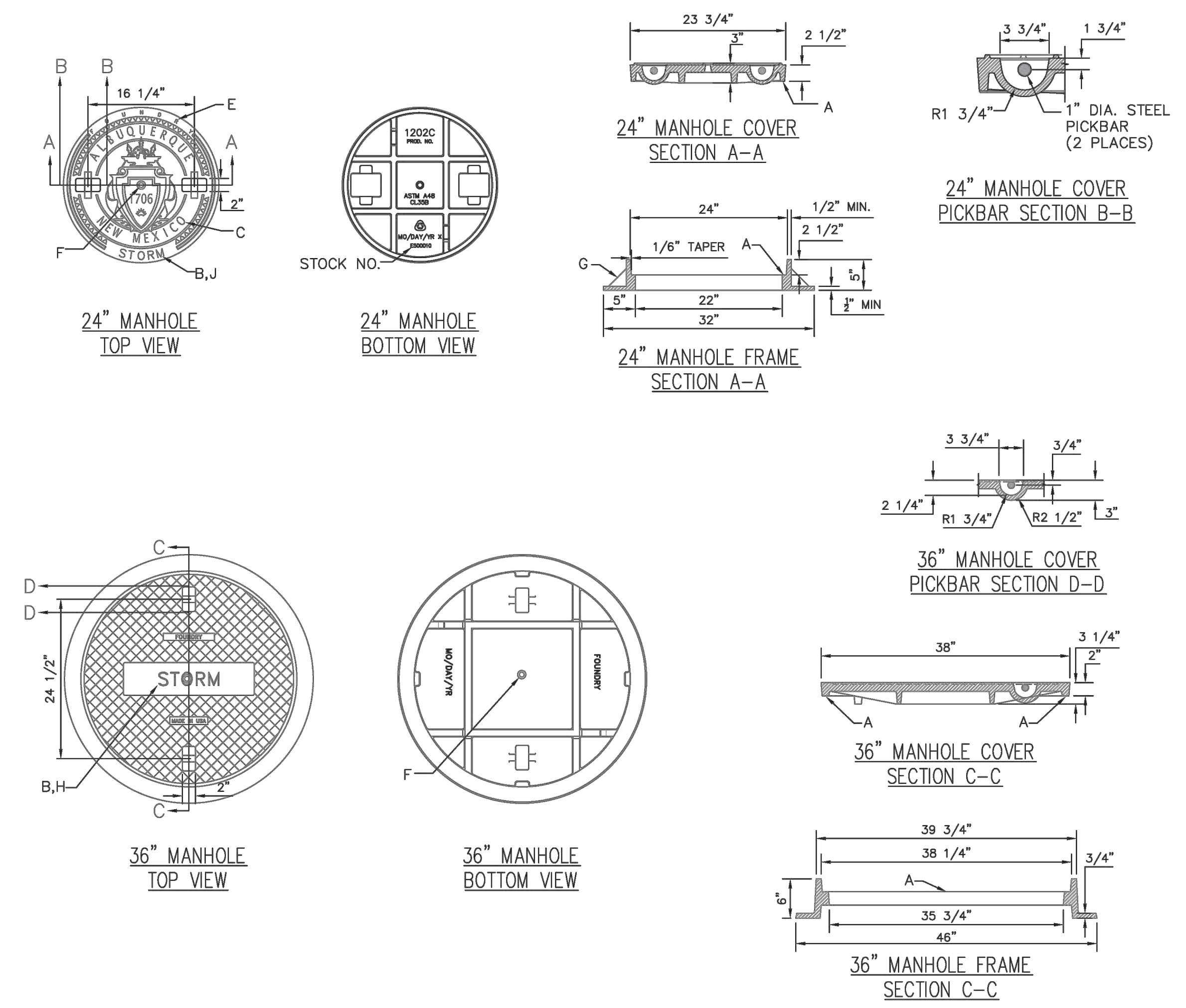
GENERAL NOTES

1. USE TYPE "C" MANHOLE FOR DEPTHS OF LESS THAN 6' MEASURED FROM INVERT TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS OF 6' OR MORE.
3. MANHOLES GREATER THAN 18' IN DEPTH SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS ONLY.
4. DESIGN APPLIES TO 4' TO 6' I.D. MANHOLES.
5. COMPACT ALL BACKFILL AROUND MANHOLE TO 95% (ASTM).
6. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
7. POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
8. MANHOLES GREATER THAN 20' IN DEPTH WILL REQUIRE A SEPARATE STRUCTURAL DESIGN.

CONSTRUCTION NOTES

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
C. MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF BLOCK IS USED, APPLY 1/2" THICK MORTAR COATING TO EXTERIOR AND INTERIOR OF MANHOLE. IF PRECAST CONCRETE IS USED, USE MASTIC GASKETS AND APPLY NON-SHRINK GROUT TO EXTERIOR AND INTERIOR OF EXPANSION JOINTS OR USE WATERTIGHT RUBBER GASKETS. IF RUBBER GASKETS ARE USED, THE MANHOLE SECTIONS DO NOT NEED TO BE GROUTED BUT THE MANUFACTURER MUST STAMP THE INTERIOR OF EACH PRECAST SECTION WITH THE TYPE OF GASKET USED.
D. PRECAST CONCRETE TOP SLAB, SEE STANDARD DRAWING 2212.
E. USE MAX. 4 COURSES GRADE MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE.
F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EACH WAY FOR MANHOLE DEPTHS OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EACH WAY FOR MANHOLE DEPTH OF LESS THAN 16'.
G. INVERT ELEVATION AS SHOWN ON PLANS. PROVIDE 0.10' (MINIMUM) OF FALL BETWEEN INVERT(S)-IN AND INVERT-OUT.
H. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
J. OCTAGONAL CONCRETE PAD, SEE STANDARD DWG. 2461 FOR REFERENCE.
K. MANHOLE FRAME AND COVER, SEE DRAWING 2210.
L. CONCRETE, SEE SPECIFICATION SECTION 101.
M. SLOPE 1" PER FT. FROM PIPE CROWN.
N. SHELF TO BE 9" WIDE MIN.
P. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
Q. STEPS TO BE INSTALLED PER STANDARD SPECIFICATION SECTION 920 AND DRAWING 2229.
R. ELECTRONIC MARKER DEVICE (EMD). SEE STANDARD SPECIFICATION SECTION 170.
S. CONCRETE COLLAR IN UNPAVED AREAS, SEE STANDARD DRAWING 2461.
T. APPLY 1/2" THICK MORTAR COATING TO INTERIOR OF OPENING.
U. #4 REBAR PER STANDARD DRAWING 2461.
V. TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND FLOW DIRECTION ARROWS. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM SEWER MANHOLE TYPE "C" DWG. 2208 JUNE 2019



24" GENERAL NOTES

1. STANDARD 24" CAST IRON M.H. FRAME AND COVER. WEIGHTS: COVER = 180 LBS., FRAME = 145 LBS. TOTAL = 325 LBS. (TOLERANCE = ±5%)
2. REFERENCE SPEC. SECTION 130.

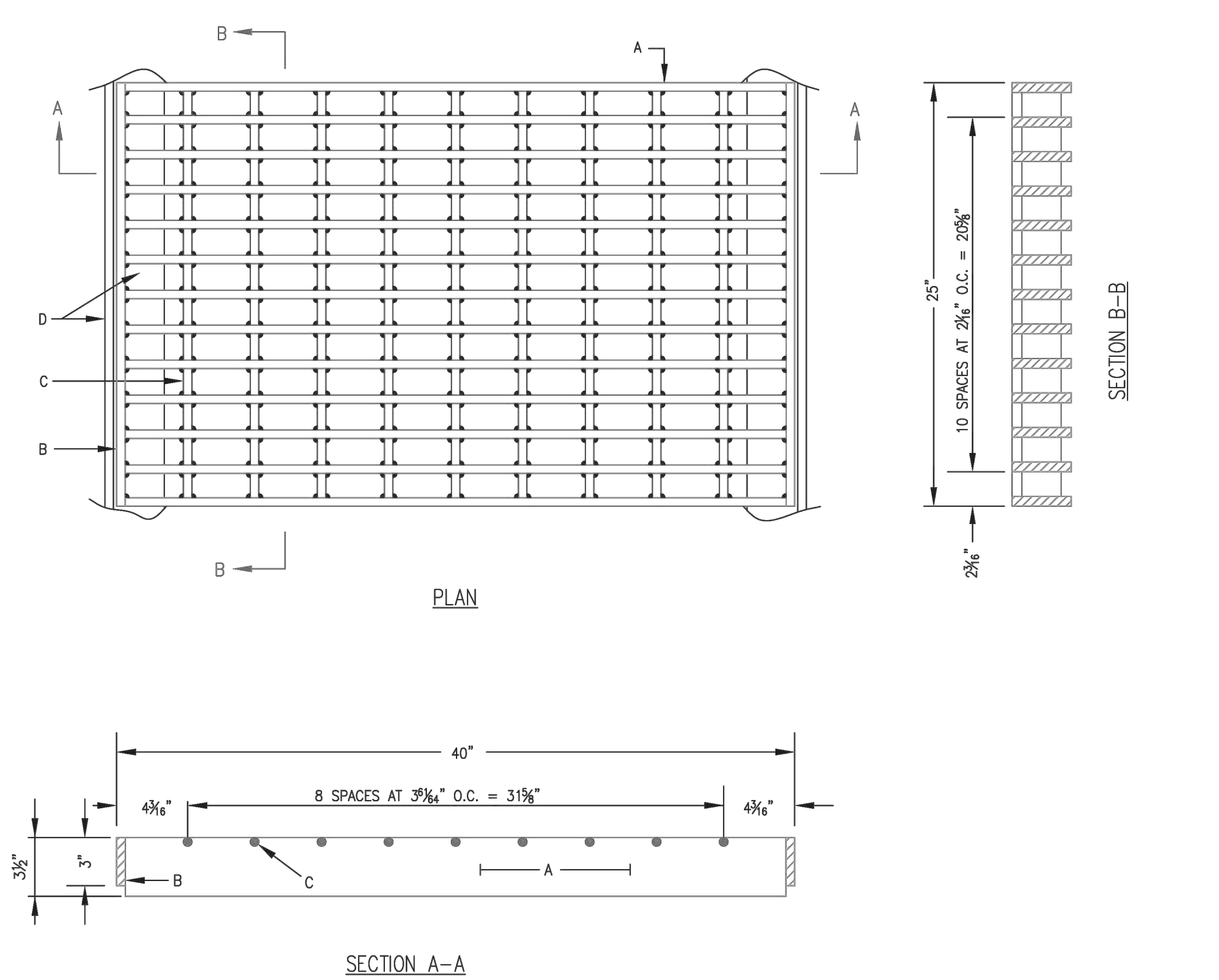
36" GENERAL NOTES

1. STANDARD 36" CAST IRON M.H. FRAME AND COVER. WEIGHTS: COVER = 355 LBS., FRAME = 315 LBS. TOTAL = 670 LBS. (TOLERANCE = ±5%)
2. REFERENCE SPEC. SECTION 130.

CONSTRUCTION NOTES

A. MACHINED OR GROUND BEARING SURFACES.
B. "STORM" CAST ON COVER TO IDENTIFY STORM DRAINAGE.
C. LETTER SIZE TO BE 1 1/4" IN HEIGHT RAISED LETTERING.
D. LETTER SIZE TO BE 3/4" IN HEIGHT RAISED LETTERING.
E. LETTER SIZE TO BE 3/8" MIN. IN HEIGHT RAISED LETTERING.
F. 3/4" DIA VENT HOLE REQUIRED.
G. GUSSETS OPTIONAL IF REQUIRED BY MANUFACTURER.
H. 2" LETTERS (RECESSED FLUSH).
J. LETTER SIZE TO BE 1" IN HEIGHT RAISED LETTERING.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM MANHOLE FRAME AND COVER DWG. 2210 JUNE 2019



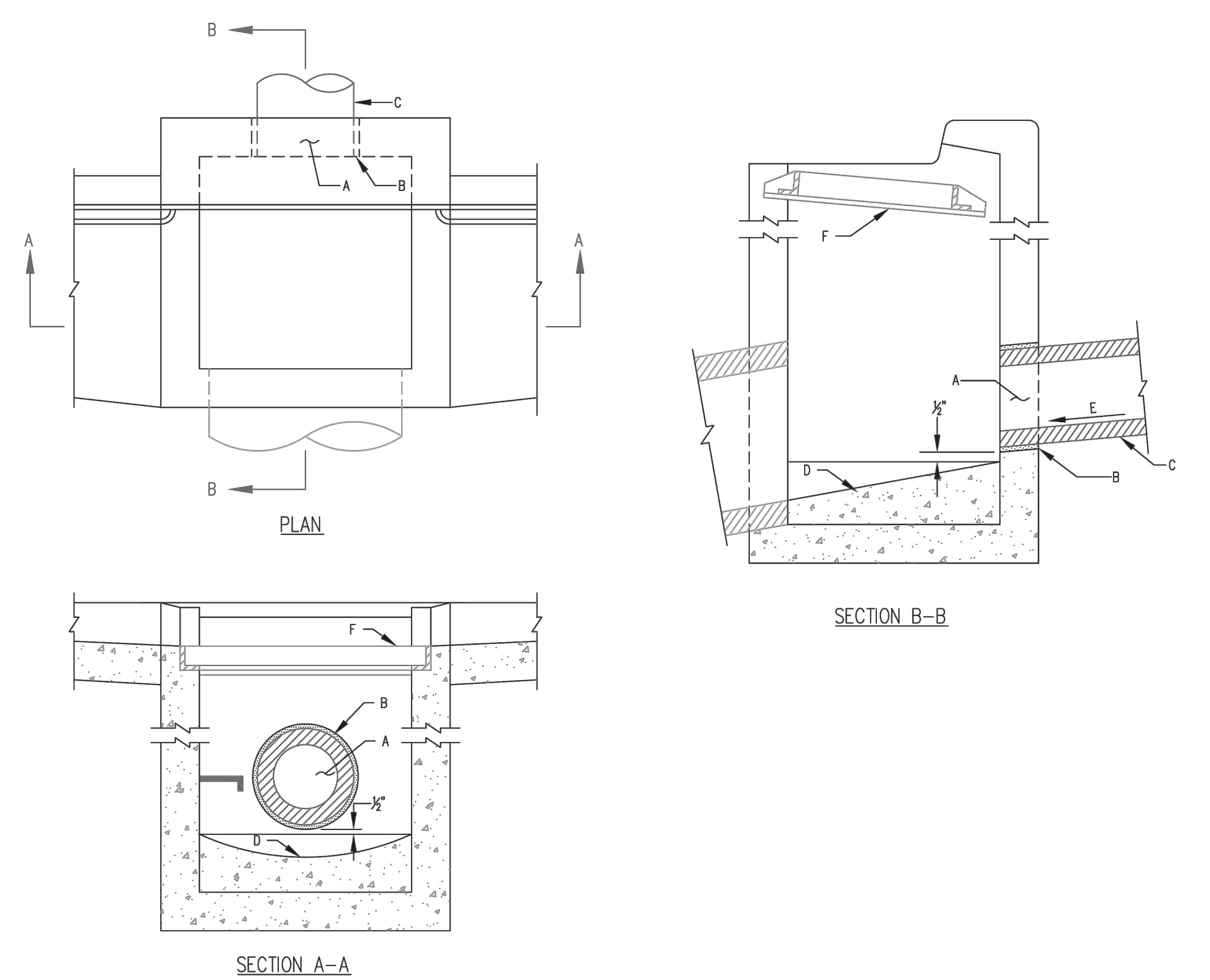
GENERAL NOTES

1. ALL BARS SHALL BE GRADE A36 STRUCTURAL STEEL.
2. THE GRATE SHALL BE WELDED WITH ⅛" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, ¼". FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO THE FRAME ON THE ROAD SIDE SO THAT IT IS FLUSH WITH THE FRAME. THE SIDE ALONG THE CURB LINE SIDE SHALL HAVE ½" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP ½" SPACE OR LESS.
7. WHEN INSPECTING OR DOING ROAD REHAB PROJECTS, IF THE GRATE IS NOT FLUSH WITH THE FRAME ON THE ROAD SIDE EDGE, COVER PLATES WELDED TO THE FRAME MAY BE USED TO COVER ANY GAPS.
8. INSTALLED VOID SPACE AREA: 3.72 SQUARE FEET OR 536 SQUARE INCHES. VOID SPACE CALCULATED AS TOTAL AREA EXCLUSIVE OF: BEARING BARS, CROSS BARS, END BARS, FRAME, AND WELDS.

CONSTRUCTION NOTES

A. BEARING BARS, (13) PL ½ x 3½ x 39".
B. END BARS, (2) PL ½ x 3 X 25".
C. CROSS BARS, (9) ½ø X 24" ROD.
D. FRAME, SEE DWG. 2216.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM INLET ALBUQUERQUE GRATE DWG. 2220 JUNE 2019



GENERAL NOTES

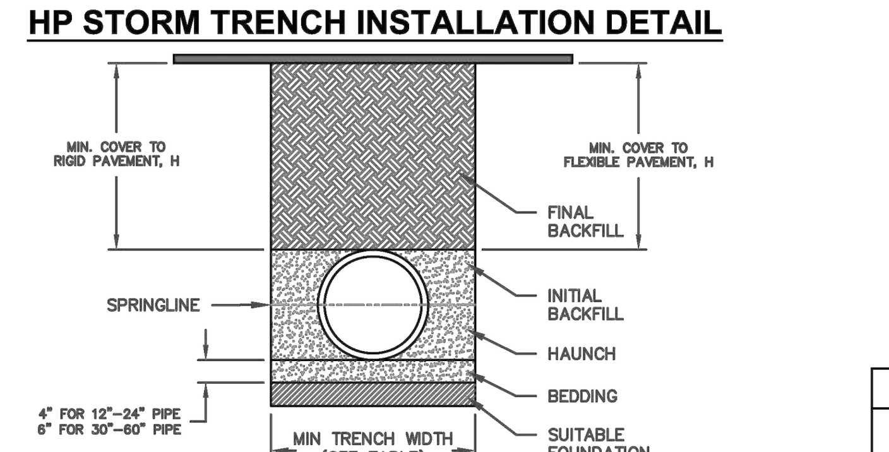
1. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
2. FOR DOUBLE "C" OR "D" STORM INLETS THE PRIVATE DRAIN LINE CONNECTION MUST BE ALIGNED WITH THE LONGITUDINAL CENTER OF EITHER GRATE FRAME.

CONSTRUCTION NOTES

A. CORE DRILL INTO BACK OF EXISTING INLET WITH INVERT OF DRILLED OPENING ½" ABOVE EXISTING CONCRETE FILL. IF NOT CORE-DRILLED, A CONCRETE COLLAR MAY BE REQUIRED.
B. GROUT OPENING WITH NONSHRINK, NONMETALLIC GROUT.
C. NEW DRAIN LINE TO BE RCP, HPPP, HDPE, OR DUCTILE IRON PIPE. DRAIN SIZE TO BE AT LEAST ONE SIZE SMALLER THAN OUTLET PIPE WITH A MAXIMUM SIZE OF 12".
D. EXISTING CONCRETE FILL.
E. SLOPE ¼" PER FOOT MIN. WITHIN R.O.W.
F. FRAME & GRATE.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE DRAIN LINE CONNECTION TO EXISTING STORM INLET DWG. 2237 JUNE 2019

HP STORM TRENCH INSTALLATION DETAIL



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE 90% OF MAXIMUM DENSITY PER ASTM D1557 OR AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. FOR TRAFFIC APPLICATIONS; CLASS I, II, OR III MATERIAL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DENSITY PER ASTM D1557. CLASS IV MATERIALS AS DEFINED IN ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO BOTTOM OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION: H–25	SURFACE LIVE LOADING CONDITION: HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" – 48" (300mm – 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR HP STORM PIPE, ft

PIPE DIA	CLASS I COMPACTED	CLASS II 90%	CLASS III 90%
12" (300mm)	41 (12.5m)	21 (6.4m)	16 (4.9m)
15" (375mm)	42 (12.8m)	21 (6.4m)	16 (4.9m)
18" (450mm)	44 (13.4m)	21 (6.4m)	17 (5.2m)
24" (600mm)	37 (11.3m)	18 (5.5m)	14 (4.3m)
30" (750mm)	39 (11.9m)	19 (5.8m)	15 (4.6m)
36" (900mm)	28 (8.5m)	14 (4.3m)	11 (3.4m)
42" (1050mm)	30 (9.1m)	14 (4.3m)	11 (3.4m)
48" (1200mm)	29 (8.8m)	14 (4.3m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	14 (4.3m)	10 (3.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE HP PP STORM TRENCH INSTALLATION DWG. 2240 MAY 2020

JM CIVIL
1101 Central Expressway South
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Allen, TX 75013

Ph. 214-491-1830

John Measels, PE
CIVIL ENGINEER

JOHN THOMAS MEASELS
NEW MEXICO
15693
PROFESSIONAL ENGINEER
"FOR REVIEW ONLY"
[illegible]

11/12/2025

CITY DETAILS

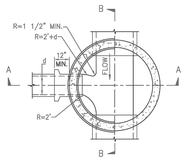
CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

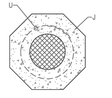
PROJECT NO: JM–DIM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025
DETAILS

C 710

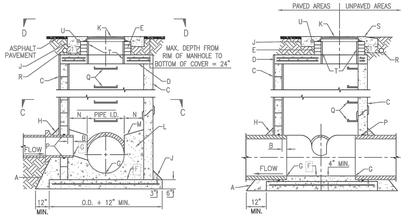
J:\CIRCLE K\DIM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM–DIM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/20/2025 5:18 PM GAVIN KLEINEBECKER



PLAN AT C–C



PLAN AT D–D



CROSS SECTION A–A

CROSS SECTION B–B

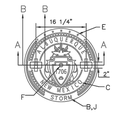
GENERAL NOTES

1. USE TYPE "C" MANHOLE FOR DEPTHS OF LESS THAN 6' MEASURED FROM INVERT TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS OF 6' OR MORE.
3. MANHOLES GREATER THAN 18' IN DEPTH SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS ONLY.
4. DESIGN APPLIES TO 4' TO 6' I.D. MANHOLES.
5. COMPACT ALL BACKFILL AROUND MANHOLE TO 95% (ASTM).
6. USE NON–SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
7. POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
8. MANHOLES GREATER THAN 20' IN DEPTH WILL REQUIRE A SEPARATE STRUCTURAL DESIGN.

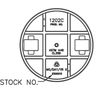
CONSTRUCTION NOTES

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
C. MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF BLOCK IS USED, APPLY 1/2" THICK MORTAR COATING TO EXTERIOR AND INTERIOR OF MANHOLE. IF PRECAST CONCRETE IS USED, USE MASTIC GASKETS AND APPLY NON–SHRINK GROUT TO EXTERIOR AND INTERIOR OF EXPANSION JOINTS OR USE WATERTIGHT RUBBER GASKETS. IF RUBBER GASKETS ARE USED, THE MANHOLE SECTIONS DO NOT NEED TO BE GROUTED BUT THE MANUFACTURER MUST STAMP THE INTERIOR OF EACH PRECAST SECTION WITH THE TYPE OF GASKET USED.
D. PRECAST CONCRETE TOP SLAB, SEE STANDARD DRAWING 2212.
E. USE MAX. 4 COURSES GRADE MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE.
F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EACH WAY FOR MANHOLE DEPTHS OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EACH WAY FOR MANHOLE DEPTH OF LESS THAN 16'.
G. INVERT ELEVATION AS SHOWN ON PLANS. PROVIDE 0.10' (MINIMUM) OF FALL BETWEEN INVERT(S)–IN AND INVERT–OUT.
H. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
J. OCTAGONAL CONCRETE PAD, SEE STANDARD DWG. 2461 FOR REFERENCE.
K. MANHOLE FRAME AND COVER, SEE DRAWING 2210.
L. CONCRETE, SEE SPECIFICATION SECTION 101.
M. SLOPE 1" PER FT. FROM PIPE CROWN.
N. SHELF TO BE 9" WIDE MIN.
P. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
Q. STEPS TO BE INSTALLED PER STANDARD SPECIFICATION SECTION 920 AND DRAWING 2229.
R. ELECTRONIC MARKER DEVICE (EMD). SEE STANDARD SPECIFICATION SECTION 170.
S. CONCRETE COLLAR IN UNPAVED AREAS, SEE STANDARD DRAWING 2461.
T. APPLY 1/2" THICK MORTAR COATING TO INTERIOR OF OPENING.
U. #4 REBAR PER STANDARD DRAWING 2461.
V. TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND FLOW DIRECTION ARROWS. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

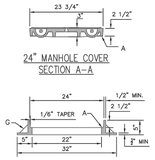
REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM SEWER MANHOLE TYPE "C" DWG. 2208 JUNE 2019



24" MANHOLE TOP VIEW

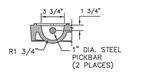


24" MANHOLE BOTTOM VIEW



24" MANHOLE COVER SECTION A–A

24" MANHOLE FRAME SECTION A–A



24" MANHOLE COVER PICKBAR SECTION B–D

24" GENERAL NOTES

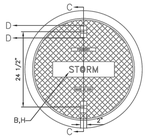
1. STANDARD 24" CAST IRON M.H. FRAME AND COVER. WEIGHTS: COVER = 180 LBS., FRAME = 145 LBS. TOTAL = 325 LBS. (TOLERANCE = ±5%)
2. REFERENCE SPEC. SECTION 130.

36" GENERAL NOTES

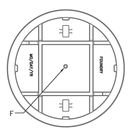
1. STANDARD 36" CAST IRON M.H. FRAME AND COVER. WEIGHTS: COVER = 355 LBS., FRAME = 315 LBS. TOTAL = 670 LBS. (TOLERANCE = ±5%)
2. REFERENCE SPEC. SECTION 130.

CONSTRUCTION NOTES

A. MACHINED OR GROUND BEARING SURFACES.
B. "STORM" CAST ON COVER TO IDENTIFY STORM DRAINAGE.
C. LETTER SIZE TO BE 1 1/4" IN HEIGHT RAISED LETTERING.
D. LETTER SIZE TO BE 3/4" IN HEIGHT RAISED LETTERING.
E. LETTER SIZE TO BE 3/8" MIN. IN HEIGHT RAISED LETTERING.
F. 3/4" DIA VENT HOLE REQUIRED.
G. GUSSETS OPTIONAL IF REQUIRED BY MANUFACTURER.
H. 2" LETTERS (RECESSED FLUSH).
J. LETTER SIZE TO BE 1" IN HEIGHT RAISED LETTERING.



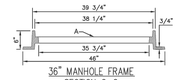
36" MANHOLE TOP VIEW



36" MANHOLE BOTTOM VIEW

36" MANHOLE COVER PICKBAR SECTION D–D

36" MANHOLE COVER SECTION C–C



36" MANHOLE FRAME SECTION C–C

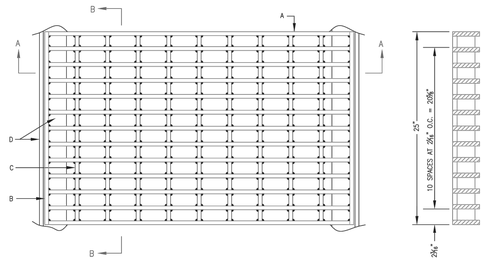
36" GENERAL NOTES

1. STANDARD 36" CAST IRON M.H. FRAME AND COVER. WEIGHTS: COVER = 355 LBS., FRAME = 315 LBS. TOTAL = 670 LBS. (TOLERANCE = ±5%)
2. REFERENCE SPEC. SECTION 130.

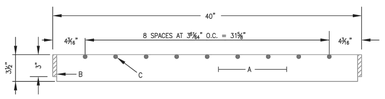
CONSTRUCTION NOTES

A. MACHINED OR GROUND BEARING SURFACES.
B. "STORM" CAST ON COVER TO IDENTIFY STORM DRAINAGE.
C. LETTER SIZE TO BE 1 1/4" IN HEIGHT RAISED LETTERING.
D. LETTER SIZE TO BE 3/4" IN HEIGHT RAISED LETTERING.
E. LETTER SIZE TO BE 3/8" MIN. IN HEIGHT RAISED LETTERING.
F. 3/4" DIA VENT HOLE REQUIRED.
G. GUSSETS OPTIONAL IF REQUIRED BY MANUFACTURER.
H. 2" LETTERS (RECESSED FLUSH).
J. LETTER SIZE TO BE 1" IN HEIGHT RAISED LETTERING.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM MANHOLE FRAME AND COVER DWG. 2210 JUNE 2019



PLAN



SECTION A–A

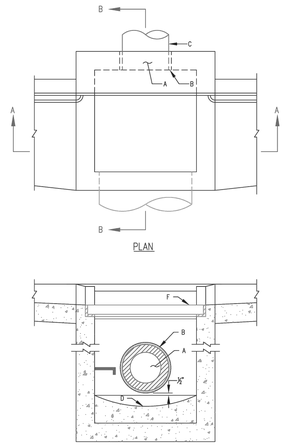
GENERAL NOTES

1. ALL BARS SHALL BE GRADE A36 STRUCTURAL STEEL.
2. THE GRATE SHALL BE WELDED WITH ⅜" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, ¼", FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO THE FRAME ON THE ROAD SIDE SO THAT IT IS FLUSH WITH THE FRAME. THE SIDE ALONG THE CURB LINE SIDE SHALL HAVE ⅜" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP ⅜" SPACE OR LESS.
7. WHEN INSPECTING OR DOING ROAD REHAB PROJECTS, IF THE GRATE IS NOT FLUSH WITH THE FRAME ON THE ROAD SIDE EDGE, COVER PLATES WELDED TO THE FRAME MAY BE USED TO COVER ANY GAPS.
8. INSTALLED VOID SPACE AREA: 3.72 SQUARE FEET OR 536 SQUARE INCHES. VOID SPACE CALCULATED AS TOTAL AREA EXCLUSIVE OF: BEARING BARS, CROSS BARS, END BARS, FRAME, AND WELDS.

CONSTRUCTION NOTES

A. BEARING BARS, (13) PL ½ x 3½ x 39".
B. END BARS, (2) PL ½ x 3 X 25".
C. CROSS BARS, (9) ½ø X 24" ROD.
D. FRAME, SEE DWG. 2216.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM INLET ALBUQUERQUE GRATE DWG. 2220 JUNE 2019



PLAN

SECTION B–B

SECTION A–A

GENERAL NOTES

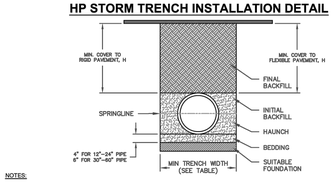
1. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
2. FOR DOUBLE "C" OR "D" STORM INLETS THE PRIVATE DRAIN LINE CONNECTION MUST BE ALIGNED WITH THE LONGITUDINAL CENTER OF EITHER GRATE FRAME.

CONSTRUCTION NOTES

A. CORE DRILL INTO BACK OF EXISTING INLET WITH INVERT OF DRILLED OPENING ½" ABOVE EXISTING CONCRETE FILL. IF NOT CORE–DRILLED, A CONCRETE COLLAR MAY BE REQUIRED.
B. GROUT OPENING WITH NONSHRINK, NONMETALLIC GROUT.
C. NEW DRAIN LINE TO BE RCP, HPPP, HDPE, OR DUCTILE IRON PIPE. DRAIN SIZE TO BE AT LEAST ONE SIZE SMALLER THAN OUTLET PIPE WITH A MAXIMUM SIZE OF 12".
D. EXISTING CONCRETE FILL.
E. SLOPE ¼" PER FOOT MIN. WITHIN R.O.W.
F. FRAME & GRATE.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE DRAIN LINE CONNECTION TO EXISTING STORM INLET DWG. 2237 JUNE 2019

HP STORM TRENCH INSTALLATION DETAIL



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE 90% OF MAXIMUM DENSITY PER ASTM D1557 OR AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. FOR TRAFFIC APPLICATIONS; CLASS I, II, OR III MATERIAL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DENSITY PER ASTM D1557. CLASS IV MATERIALS AS DEFINED IN ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (DRAIN OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS: CLASS I OR II MATERIAL COMPACTED TO 95% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO BOTTOM OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	24" (762mm)
15" (375mm)	29" (864mm)
18" (450mm)	32" (991mm)
24" (600mm)	40" (1219mm)
30" (750mm)	47" (1422mm)
36" (900mm)	54" (1626mm)
42" (1050mm)	60" (1829mm)
48" (1200mm)	67" (2032mm)
60" (1500mm)	80" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H–25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" – 48" (300mm – 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR HP STORM PIPE, ft

PIPE DIA	CLASS I COMPACTED	CLASS II SOIL	CLASS III SOIL
12" (300mm)	41 (12.5m)	20 (6.4m)	16 (4.9m)
15" (375mm)	42 (12.8m)	21 (6.4m)	16 (4.9m)
18" (450mm)	44 (13.4m)	21 (6.4m)	17 (5.2m)
24" (600mm)	37 (11.3m)	18 (5.5m)	14 (4.3m)
30" (750mm)	39 (11.9m)	19 (5.8m)	15 (4.6m)
36" (900mm)	28 (8.5m)	14 (4.3m)	11 (3.4m)
42" (1050mm)	30 (9.1m)	14 (4.3m)	11 (3.4m)
48" (1200mm)	29 (8.8m)	14 (4.3m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	14 (4.3m)	10 (3.0m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE HP PP STORM TRENCH INSTALLATION DWG. 2240 MAY 2020

JM CIVIL
1101 Central Expressway South
Suite 215
Allen, TX 75013
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER

11/12/2025

DETAILS

CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

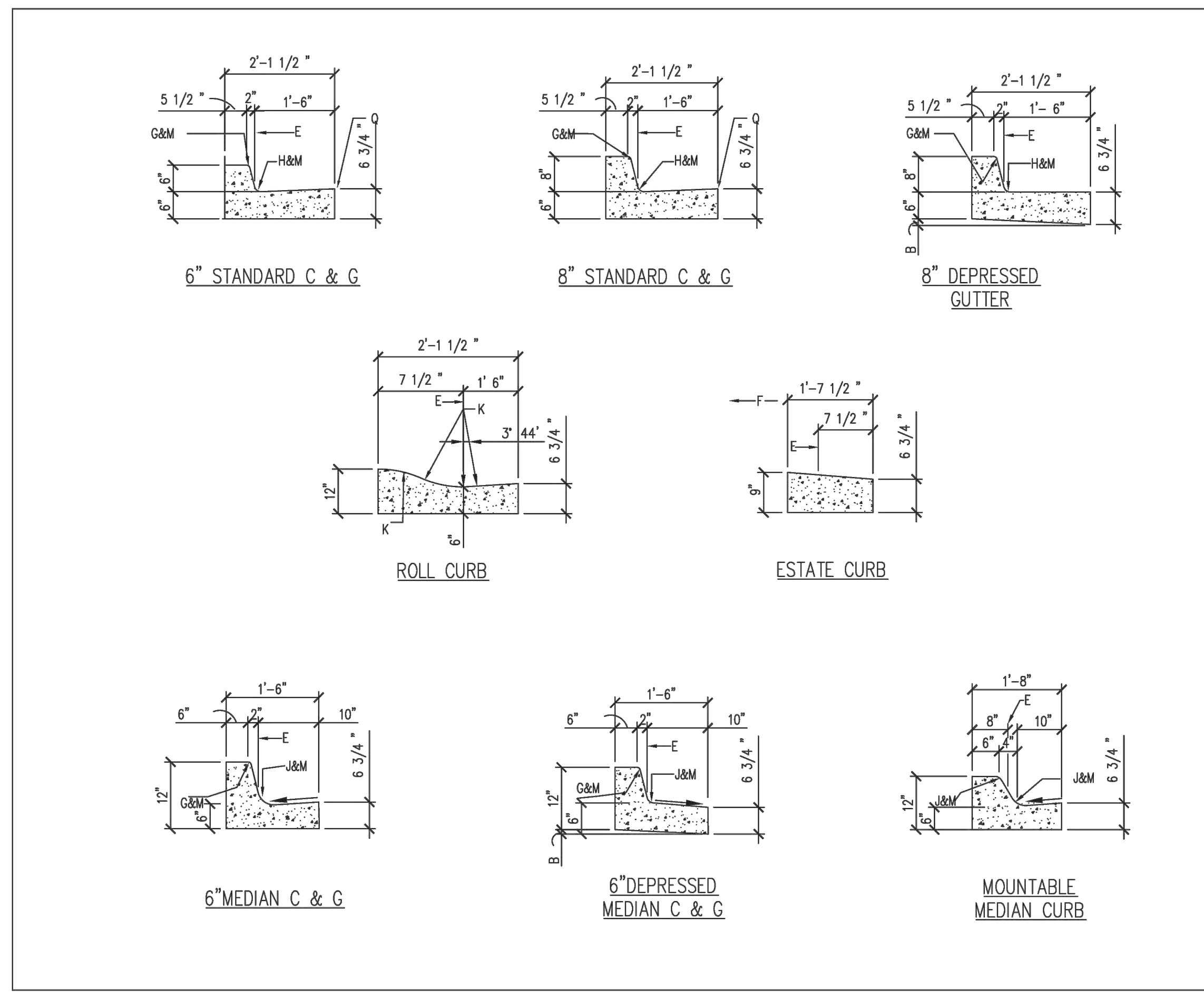
PROJECT NO: JM–DM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/19/2025

DETAILS

C 710

J:\CIRCLE K\DM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM–DM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/19/2025 2:06 PM GAVIN KLEINEBECKER

J:\CIRCLE K\DIM25001 98TH DE VARGAS RD – ALBUQUERQUE, NM_CURRENT DRAWINGS\JM-DIM25001 – 98TH & DE VARGAS, ALBUQUERQUE NM – 24X36 MASTER.DWG 11/20/2025 5:19 PM GAVIN KLEINEBECKER



6" STANDARD C & G — 8" STANDARD C & G — 8" DEPRESSED GUTTER — ROLL CURB — ESTATE CURB — 6"MEDIAN C & G — 6"DEPRESSED MEDIAN C & G — MOUNTABLE MEDIAN CURB

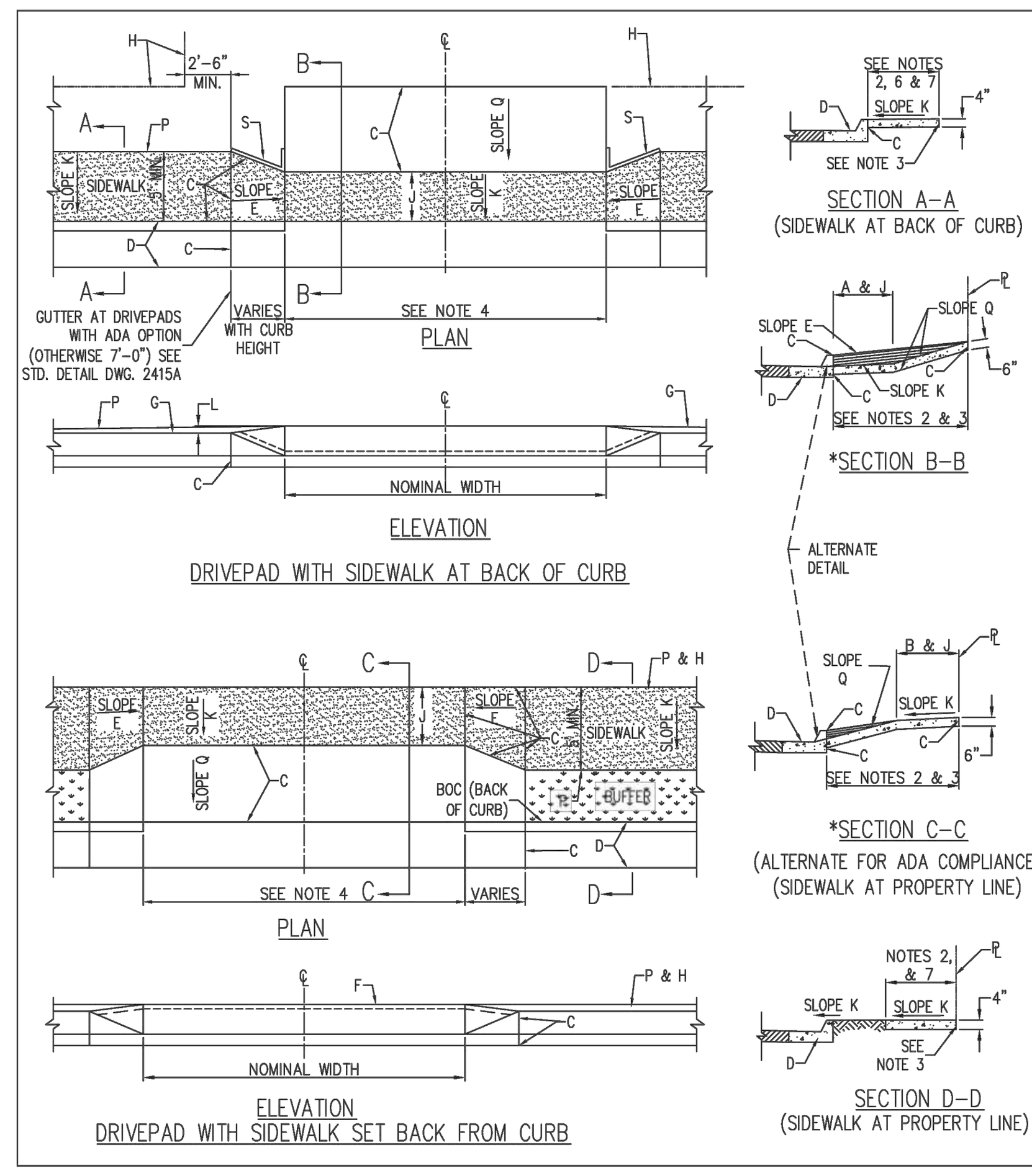
GENERAL NOTES

1. CURB, GUTTER AND CUT-OFF WALL WILL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (PCC).
2. FOR STANDARD AND MEDIAN C & G ADJACENT TO ASPHALT CONCRETE (AC) PAVEMENT, PROVIDE CONTRACTION JOINTS AT 12' MAX. SPACING. CONTRACTION JOINTS SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT FINISHED FACES. 1/2" EXPANSION JOINTS TO BE INSTALLED AT CURB RETURNS AND AT A MAXIMUM SPACING OF 200' BETWEEN CURB RETURNS AND SEPARATELY CONSTRUCTED DRIVEWAYS.
3. FOR ALL OTHER C & G AND CUT-OFF WALL PROVIDE CONTRACTION JOINTS AT 10' MAX SPACING, 1/2" EXPANSION JOINTS AT CURB RETURNS & AT A MAXIMUM SPACING OF 100' BETWEEN CURB RETURNS & EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS. CONTRACTION JOINTS SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT ALL FINISHED FACES. REINFORCEMENT SHALL NOT BE USED IN CUT-OFF WALLS.
4. FOR C & G CONSTRUCTED WITH PCC PAVEMENT, CONTRACTION JOINTS AND EXPANSION JOINTS SHALL BE THE SAME AS THE PAVEMENT JOINTS.
5. ALL EDGES SHALL BE EDGED WITH A 3/8" RADIUS EDGING TOOL.
6. REMOVE & REPLACE PAVEMENT 1' WIDE ADJACENT TO LIP OF GUTTER WHEN CONSTRUCTING C & G ADJACENT TO EXISTING AC PAVEMENT.
7. 1/4" ISOLATION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND C & G WHEN CAST ADJACENT TO EACH OTHER.
8. ADA = AMERICANS WITH DISABILITY ACT.

CONSTRUCTION NOTES

SEE COA DRAWING 2415B

REVISIONS	CITY OF ALBUQUERQUE
	PAVING CURB AND GUTTER DETAILS DWG. 2415A JUNE 2019



DRIVEPAD WITH SIDEWALK AT BACK OF CURB (PLAN, ELEVATION) — DRIVEPAD WITH SIDEWALK SET BACK FROM CURB (PLAN, ELEVATION) — SECTION A–A (SIDEWALK AT BACK OF CURB) — *SECTION B–B — *SECTION C–C (ALTERNATE FOR ADA COMPLIANCE) (SIDEWALK AT PROPERTY LINE) — SECTION D–D (SIDEWALK AT PROPERTY LINE) — ALTERNATE DETAIL MACHINE CUT EXISTING CURBS

* USE ONLY WHEN BACK OF CURB TO PROPERTY LINE IS 10' OR MORE. DRIVEPADS WITH LESS THAN 10'-0" IN DEPTH REQUIRE A SPECIAL DESIGN TO BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER. ADDITIONAL RIGHT-OF-WAY OR EASEMENTS SHALL BE OBTAINED IF REQUIRED.

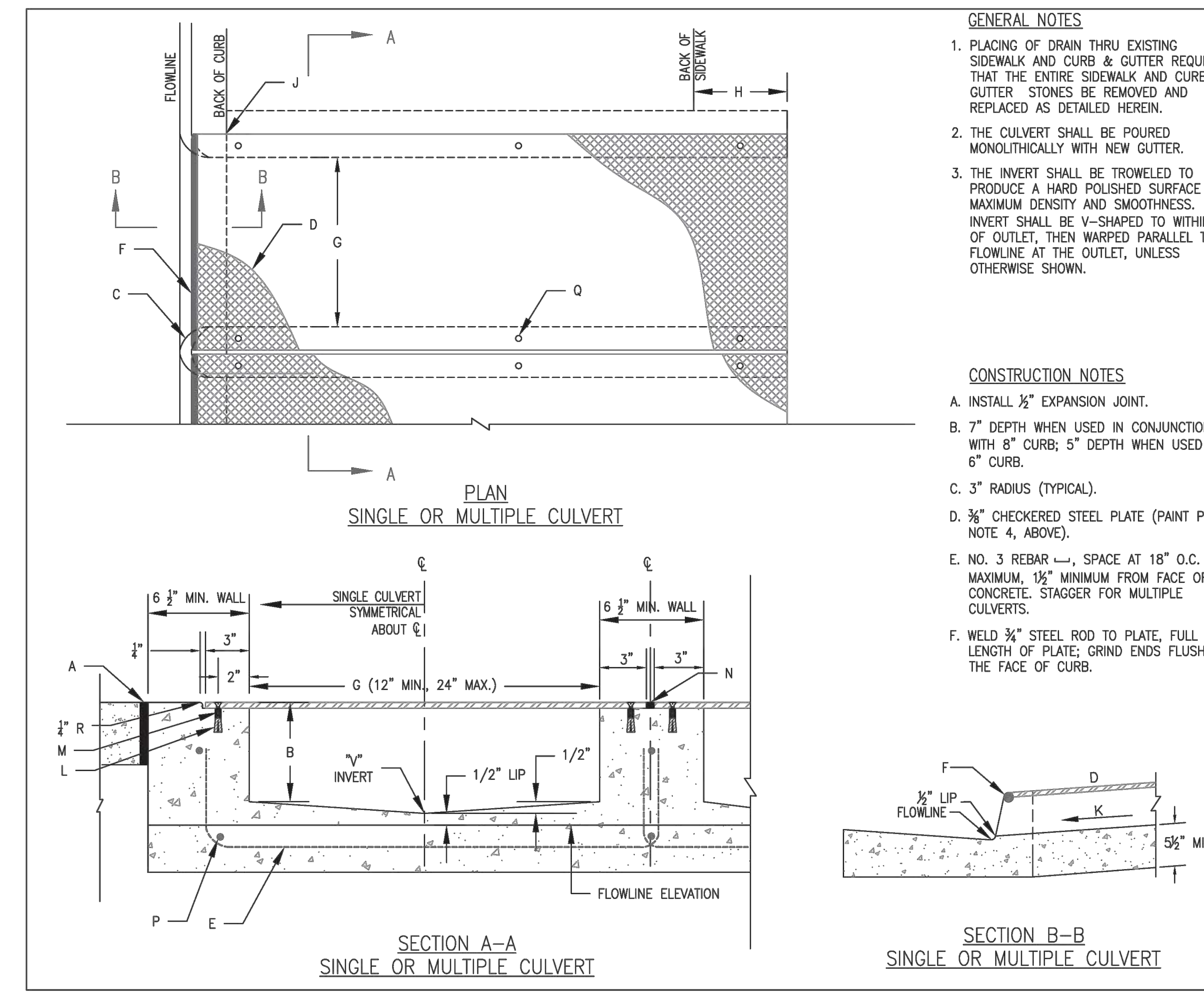
GENERAL NOTES

1. DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER AND/OR TRAFFIC ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. REQUEST FOR SIDEWALK VARIANCES SHALL BE SUBMITTED TO THE DEVELOPMENT REVIEW BOARD.
3. USE 1/2" EXP. JT. WHERE SIDEWALK OR DRIVEPAD ABUTS BLDGS., FENCES, WALLS OR OTHER IMMOVABLE OBJECTS.
4. ALL DRIVEPADS SHALL BE A MIN. THICKNESS OF 6" AND SHALL BE CONSTRUCTED FROM BACK OF CURB TO P/L. FOR DRIVEWAY WIDTHS, CONSULT CHAPTER 7 OF THE DEVELOPMENT PROCESS MANUAL.
5. DRIVEPADS WIDER THAN 18' (NOMINAL) SHALL HAVE A 1/2" EXP. JT. AT MIDPOINT. DRIVEPADS WIDER THAN 36' SHALL HAVE 2 OR MORE 1/2" EXP. JTS. EQUALLY SPACED, MAX., SPACING IS 18' APART.
6. SIDEWALK AT THE BACK OF CURB SHALL BE USED ONLY WHEN VARIANCE IS APPROVED.
7. FOR SIDEWALK WIDTH, CONSULT CHAPTER 7 OF THE DEVELOPMENT PROCESS MANUAL (4' MIN. WIDTH ON ACCESSIBLE ROUTE).
8. SUBGRADE UNDER SIDEWALK & DRIVEPAD SHALL BE COMPACTED AS PER SECTION 301.
9. ADA – AMERICANS WITH DISABILITIES ACT.

CONSTRUCTION NOTES

A. SIDEWALK ADJACENT TO CURB.
B. OFFSET SIDEWALK.
C. 1/2" EXPANSION JOINT ADJACENT TO EXISTING CONCRETE OR STRUCTURES ON REPLACEMENT WORK.
D. CURB AND GUTTER.
E. SLOPE TO BE ADJUSTED TO PROVIDE A UNIFORM TRANSITION BETWEEN SIDEWALK AND DRIVEPAD (NOT TO EXCEED 8.3%, 7% PREFERRED SLOPE).
F. TOP OF DRIVEPAD.
G. TOP OF CURB.
H. PROPERTY LINE/RIGHT-OF-WAY LINE.
J. 4' MIN SIDEWALK WIDTH.
K. SLOPE 2% MAX. 1.5% PREFERRED SLOPE.
L. THE FINISH GRADE ELEVATION DIFFERENCE BETWEEN TOP OF DRIVEPAD AT PROPERTY LINE AND TOP OF CURB IS DETERMINED BY A 2% MAXIMUM SLOPE, AND ANY DEVIATION FROM THIS SLOPE MUST BE APPROVED BY THE CITY ENGINEER.
M. SAW CUT EXISTING CONCRETE FROM BACKSIDE OF CURB WITH SLOPE TOWARD FLOWLINE.
N. EXPOSED CUT EDGES SHALL BE GROUND SMOOTH/ROUNDED TO REMOVE SHARP EDGE.
P. OUTSIDE EDGE OF SIDEWALK.
Q. SLOPE REQUIRED TO MEET GIVEN OR SET BOUNDARY ELEVATIONS (PROPERTY LINE OR BOC. ETC.).
R. FLARED SIDES ARE TO HAVE 10% MAXIMUM SLOPE.
S. HEADER CURB AS REQUIRED TO MATCH GRADE BEHIND SIDEWALK.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING DRIVEPADS DWG. 2425A JUNE 2019



PLAN SINGLE OR MULTIPLE CULVERT — SECTION A–A SINGLE OR MULTIPLE CULVERT — SECTION B–B SINGLE OR MULTIPLE CULVERT

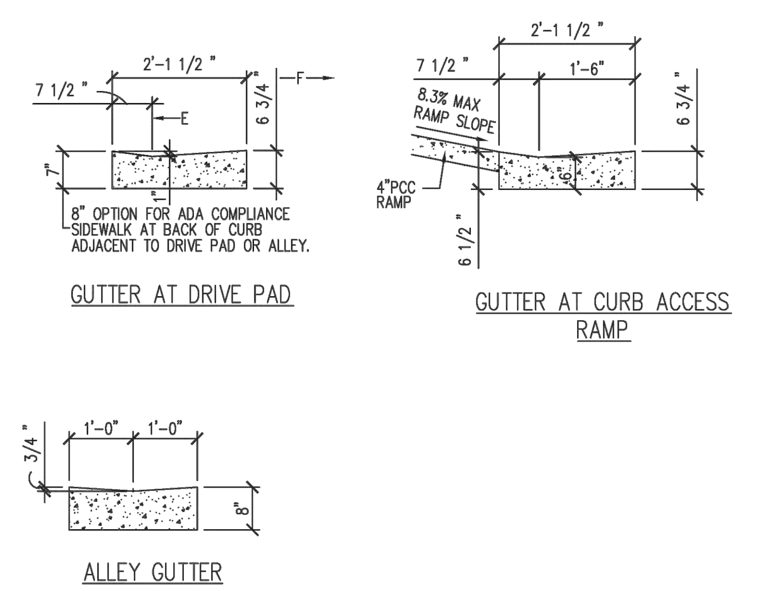
GENERAL NOTES

1. PLACING OF DRAIN THRU EXISTING SIDEWALK AND CURB & GUTTER REQUIRES THAT THE ENTIRE SIDEWALK AND CURB AND GUTTER STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
2. THE CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
3. THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAXIMUM DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED PARALLEL TO FLOWLINE AT THE OUTLET, UNLESS OTHERWISE SHOWN.
4. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. CLEAN SURFACE OF PLATE AND PAINT WITH ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
5. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
6. CULVERT MUST BE PERPENDICULAR TO THE CURB.

CONSTRUCTION NOTES

A. INSTALL ½" EXPANSION JOINT.
B. 7" DEPTH WHEN USED IN CONJUNCTION WITH 8" CURB; 5" DEPTH WHEN USED WITH 6" CURB.
C. 3" RADIUS (TYPICAL).
D. ⅜" CHECKERED STEEL PLATE (PAINT PER NOTE 4, ABOVE).
E. NO. 3 REBAR ⌴, SPACE AT 18" O.C. MAXIMUM, 1½" MINIMUM FROM FACE OF CONCRETE. STAGGER FOR MULTIPLE CULVERTS.
F. WELD ¾" STEEL ROD TO PLATE, FULL LENGTH OF PLATE; GRIND ENDS FLUSH TO THE FACE OF CURB.
G. DRAIN WIDTH PER PLAN (12" MINIMUM, 24" MAXIMUM).
H. EXTEND CULVERT AND STEEL PLATE 1-FOOT BEYOND BACK OF SIDEWALK, UNLESS RESTRICTED BY PROPERTY LINE.
J. IF SIDEWALK IS NOT AT BACK OF CURB, EXTEND CULVERT AND STEEL PLATE TO FACE OF CURB.
K. SLOPE ¼" PER FOOT (MINIMUM).
L. FOR SECURING PLATE USE POWERS® 3/8-16 CARBON STEEL FLANGED DROPIN ANCHOR OR APPROVED EQUAL. INSTALL USING SETTING TOOL AND MANUFACTURER'S INSTRUCTIONS AT MAX 24" O.C. A MINIMUM OF 2 PER SIDE AND WITHIN 6" OF EACH END.
M. 3/8-16X1" COUNTERSUNK, STAINLESS STEEL, MACHINE SCREW. COVER HEAD WITH 2-PART EPOXY.
N. FILL VOID BETWEEN PLATES WITH NP-1 SEALANT OR CITY APPROVED EQUIVALENT.
P. NO. 3 REBAR, CONTINUOUS.
Q. HOLE DIAMETER AT BOTTOM OF COUNTERSUNK HOLE OF STEEL PLATE TO BE ½" DIAMETER.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE SIDEWALK CULVERT PLAN, AND SECTIONS A–A AND B–B DWG. 2236 JUNE 2019



GUTTER AT DRIVE PAD — GUTTER AT CURB ACCESS RAMP — 4" TRANSITION CURB & GUTTER DETAIL — ALLEY GUTTER

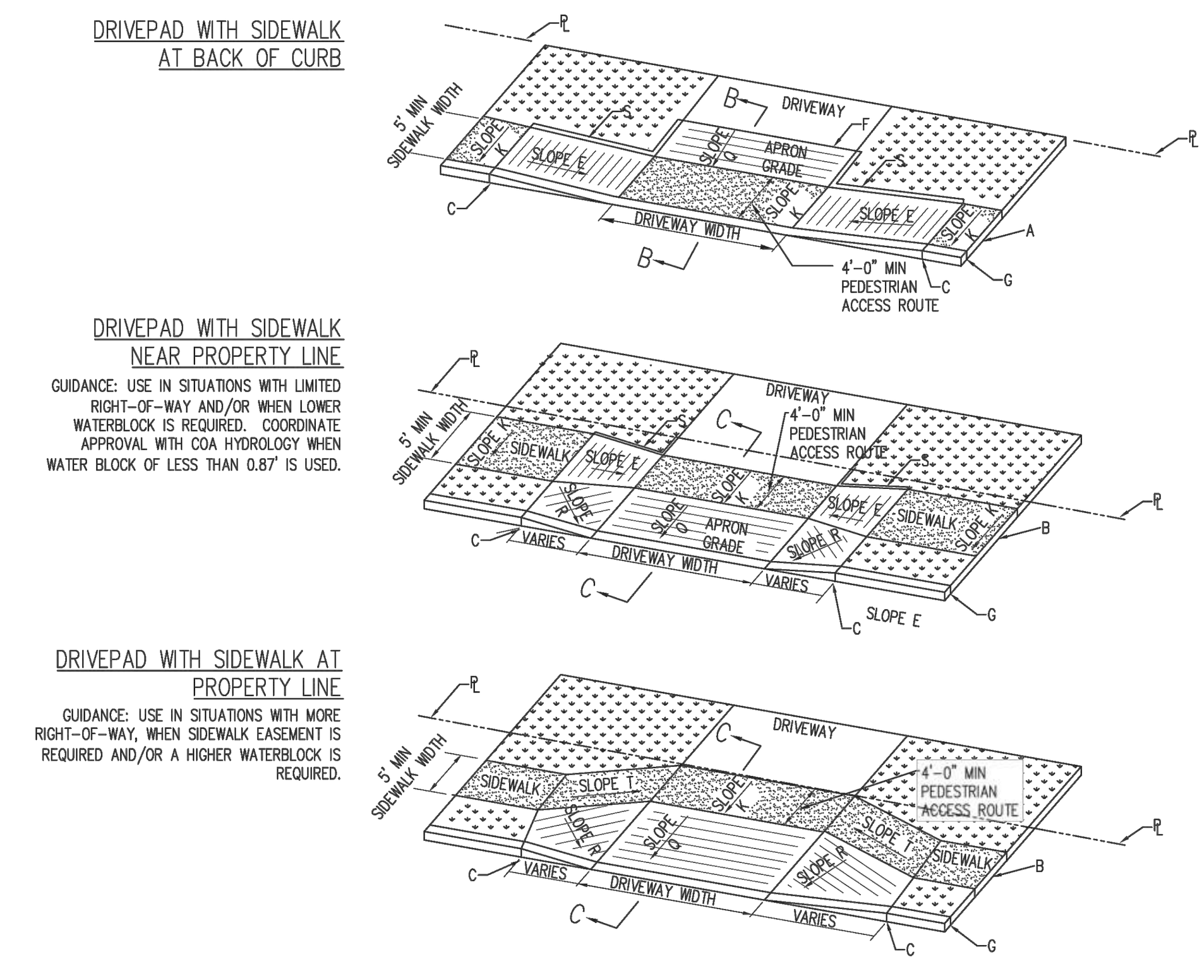
GENERAL NOTES

SEE COA DRAWING 2415A

CONSTRUCTION NOTES

A. REQ. CONC. CHANNEL LINING, OR CUT-OFF WALL, PROVIDE 1/4" EXP JOINT BETWEEN BACK OF CURB & CHANNEL LINING AND/OR WALL.
B. VARIABLE, DEPRESS AS NEEDED.
C. DRIVE NO. 4 PINS 18" DEEP IN HOLES DRILLED @ 2" O.C. IN EXISTING PAVEMENT, SEAL WITH EPOXY.
D. EXISTING ASPHALT CONCRETE (AC) OR PORTLAND CEMENT CONCRETE (PCC) PAVEMENT.
E. FACE OF CURB/FLOW LINE.
F. TRAFFIC SIDE.
G. 3/4" RADIUS.
H. 1-1/2" RADIUS.
J. 2" RADIUS.
K. 24" RADIUS.
L. TACK COAT.
M. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
N. NOT USED
P. 8" SCARIFIED AND COMPACTED SUBGRADE. 95% MINIMUM COMPACTION PER SECTION 301.
Q. AC PAVEMENT.
R. #4 CONT. BETWEEN JOINTS 3" COVER AT JOINTS.
S. #3 PINS @ 3'-0" O.C. W/STD. HOOK.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING CURB AND GUTTER DETAILS DWG. 2415B JANUARY 2019



DRIVEPAD WITH SIDEWALK AT BACK OF CURB

DRIVEPAD WITH SIDEWALK NEAR PROPERTY LINE
GUIDANCE: USE IN SITUATIONS WITH LIMITED RIGHT-OF-WAY AND/OR WHEN LOWER WATERBLOCK IS REQUIRED. COORDINATE APPROVAL WITH COA HYDROLOGY WHEN WATER BLOCK OF LESS THAN 0.87' IS USED.

DRIVEPAD WITH SIDEWALK AT PROPERTY LINE
GUIDANCE: USE IN SITUATIONS WITH MORE RIGHT-OF-WAY, WHEN SIDEWALK EASEMENT IS REQUIRED AND/OR A HIGHER WATERBLOCK IS REQUIRED.

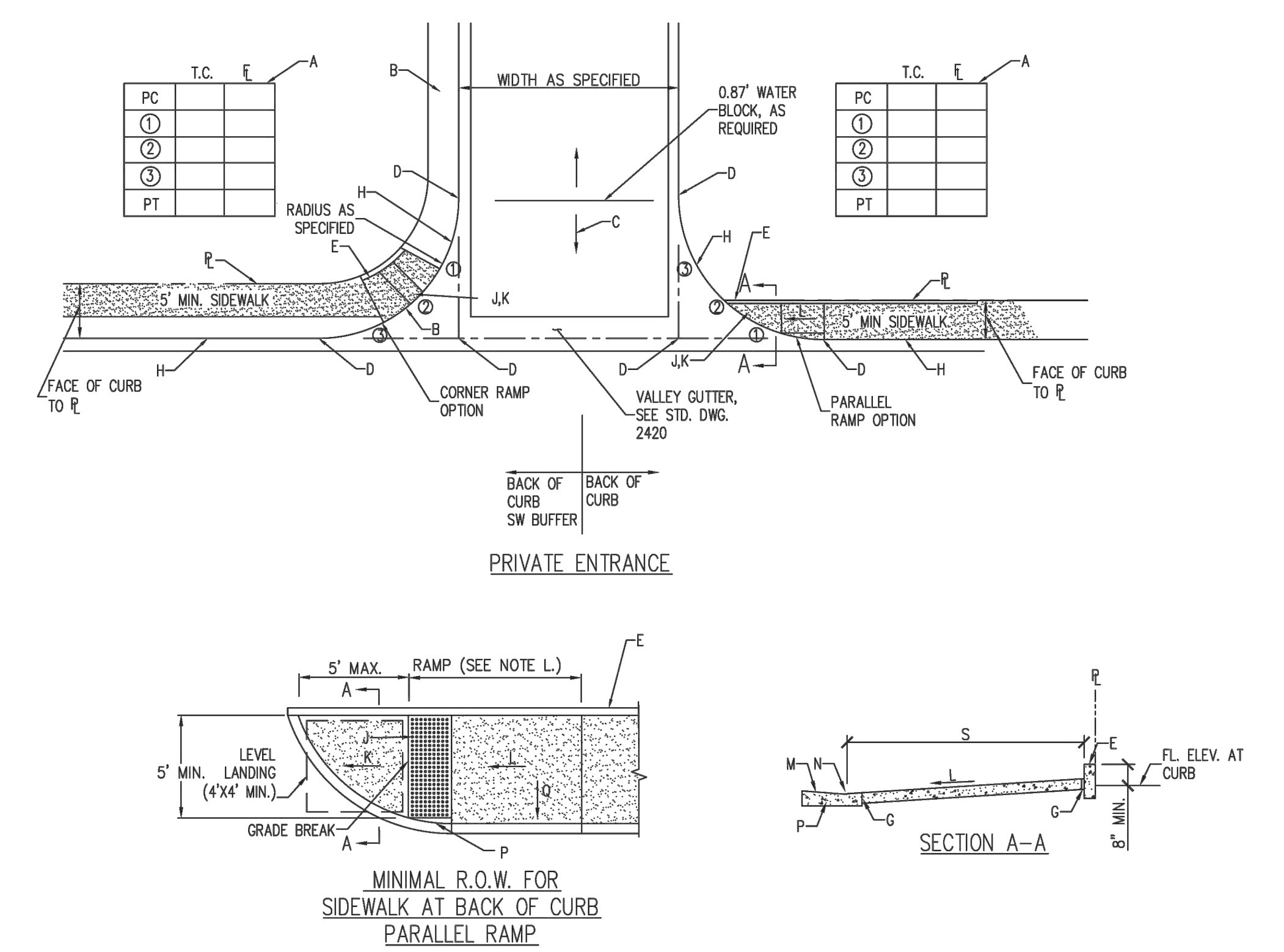
GENERAL NOTES

1. SEE COA STANDARD DRAWING 2425A FOR DRIVEWAY SECTIONS.
2. ENGINEER SHALL PROVIDE ADDITIONAL DETAIL AND DESIGN FOR SITE SPECIFIC CONDITIONS AS NEEDED.
3. SEE DRAWING 2446 FOR DETECTABLE WARNING SURFACE STANDARDS.

CONSTRUCTION NOTES

A. SIDEWALK ADJACENT TO CURB.
B. OFFSET SIDEWALK.
C. 1/2" EXPANSION JOINT ADJACENT TO EXISTING CONCRETE OR STRUCTURES ON REPLACEMENT WORK.
D. NOT USED
E. SLOPE TO BE ADJUSTED TO PROVIDE A UNIFORM TRANSITION BETWEEN SIDEWALK AND DRIVEPAD (NOT TO EXCEED 8.3%, 7% PREFERRED SLOPE).
F. TOP OF DRIVEPAD.
G. TOP OF CURB.
H. PROPERTY LINE/RIGHT-OF-WAY LINE.
J. 5' MIN SIDEWALK WIDTH.
K. SLOPE 2% MAX. 1.5% PREFERRED SLOPE.
L. NOT USED
M. NOT USED
N. EXPOSED CUT EDGES SHALL BE GROUND SMOOTH/ROUNDED TO REMOVE SHARP EDGE.
P. OUTSIDE EDGE OF SIDEWALK.
Q. SLOPE REQUIRED TO MEET GIVEN OR SET BOUNDARY ELEVATIONS (PROPERTY LINE OR BOC. ETC.).
R. FLARED SIDES ARE TO HAVE 10% MAXIMUM SLOPE.
S. HEADER CURB AS REQUIRED TO MEET GRADE AT BACK OF SIDEWALK.
T. LONGITUDINAL SLOPE TO MATCH ROADWAY WITH 8.3% MAX.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING ISOMETRIC DRIVEPAD VIEWS DWG. 2425B JUNE 2019



PRIVATE ENTRANCE — MINIMAL R.O.W. FOR SIDEWALK AT BACK OF CURB PARALLEL RAMP — SECTION A–A

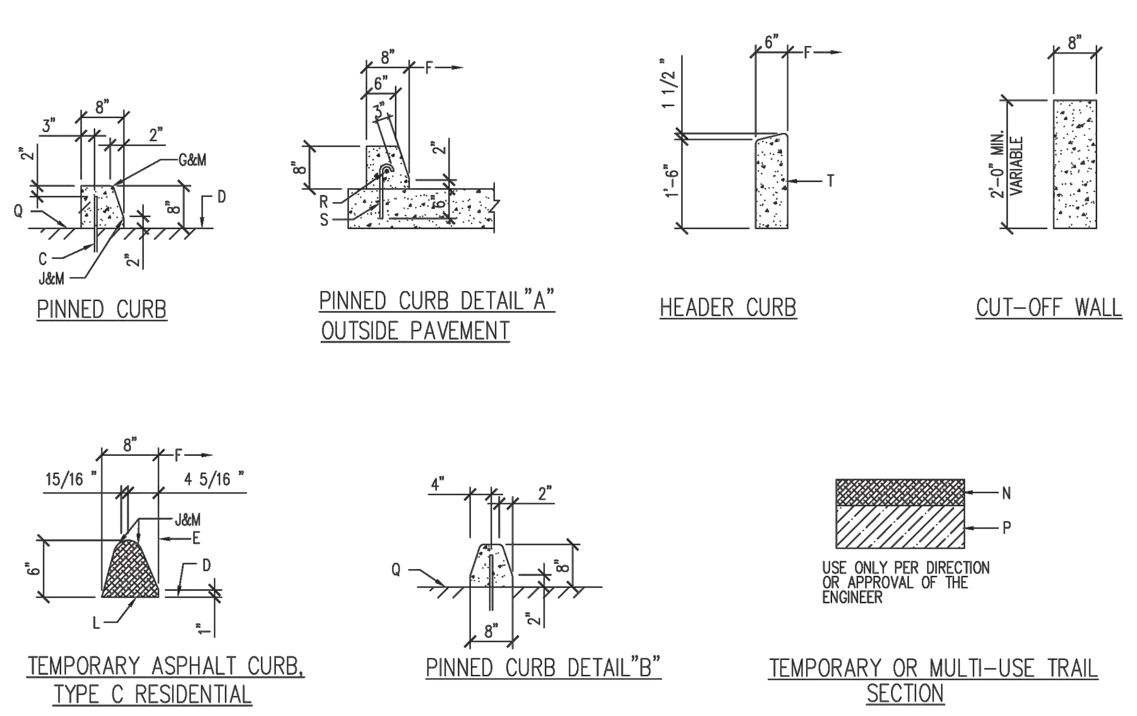
GENERAL NOTES

1. THESE DETAILS ARE PROVIDED FOR HIGH TRAFFIC VOLUME PRIVATE ENTRANCES SUCH AS ENTRANCES TO COMMERCIAL SITES, IN LIEU OF STANDARD DRIVE PAD PER CHAPTER 7 OF THE DEVELOPMENT PROCESS MANUAL.
2. SEE STD. DWGS. 2441 TO 2445 FOR ALTERNATE CURB ACCESS RAMP DETAILS. SEE DETAIL 2446 FOR DETECTABLE WARNING DEVICE DETAILS.

CONSTRUCTION NOTES

A. INCLUDE QUARTER POINT ELEVATIONS. SEE STD. DETAIL DWG. 2420. SEE LOCATION FOR QUARTER POINTS ON PLAN VIEW BELOW.
B. WHERE INTERIOR SIDEWALK CONNECTION IS TO BE PROVIDED – CONSTRUCT CURB ACCESS RAMPS PER STD. DETAIL DWGS. 2440 – 2445.
C. INITIAL GRADE TO BE 4% OR LESS WHEN CONNECTING TO COLLECTOR OR ARTERIAL STREETS. 6% OR LESS WHEN CONNECTING TO LOCAL STREETS. INCLUDE A 4-FOOT WIDE ADA ACCESSIBLE PATHWAY ACROSS ENTIRE WIDTH OF PRIVATE ENTRANCE.
D. INCLUDE ELEVATIONS AT EACH END OF CURB RETURN AND INTERSECTIONS OF PROJECTED FLOWLINES. SEE STD. DWG. 2420.
E. AT PROPERTY LINE, CONSTRUCT HEADER CURB. SEE STD. DWG. 2415B AND SECTION A–A, THIS SHEET.
F. IF SIDEWALK IS AGAINST CURB, THE SIDEWALK SHOULD BE TRANSITIONED TO KEEP THE CURB ACCESS RAMP IN THE LOCATION SHOWN.
G. 1/2" EXPANSION JOINT.
H. THEORETICAL FACE OF CURB OR FLOWLINE.
J. DETECTABLE WARNING DEVICES FOR DRIVE ENTRANCES ≥30 FEET BETWEEN FACES OF CURB (SEE STD. DWG. 2446 FOR PLACEMENT DETAILS).
K. LEVEL LANDING (2% MAXIMUM SLOPE).
L. 8.3% MAXIMUM SLOPE, 7% PREFERRED SLOPE.
M. SLOPE OF GUTTER NOT TO EXCEED 2% ADJACENT TO RAMP.
N. FLUSH WITH RAMP AND GUTTER.
P. CURB AND GUTTER (SEE STD. DWG. 2415 – GUTTER AT CURB ACCESS RAMP).
Q. 2% MAXIMUM CROSS-SLOPE. 1.5% PREFERRED CROSS-SLOPE.
R. NOT USED
S. VARIES WITH AVAILABLE RIGHT-OF-WAY.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING PRIVATE ENTRANCE DETAILS– ILLUSTRATING TWO R/W CONDITIONS DWG. 2426 JUNE 2019



PINNED CURB — PINNED CURB DETAIL"A" OUTSIDE PAVEMENT — HEADER CURB — CUT-OFF WALL — TEMPORARY ASPHALT CURB, TYPE C RESIDENTIAL — PINNED CURB DETAIL"B" — TEMPORARY OR MULTI-USE TRAIL SECTION

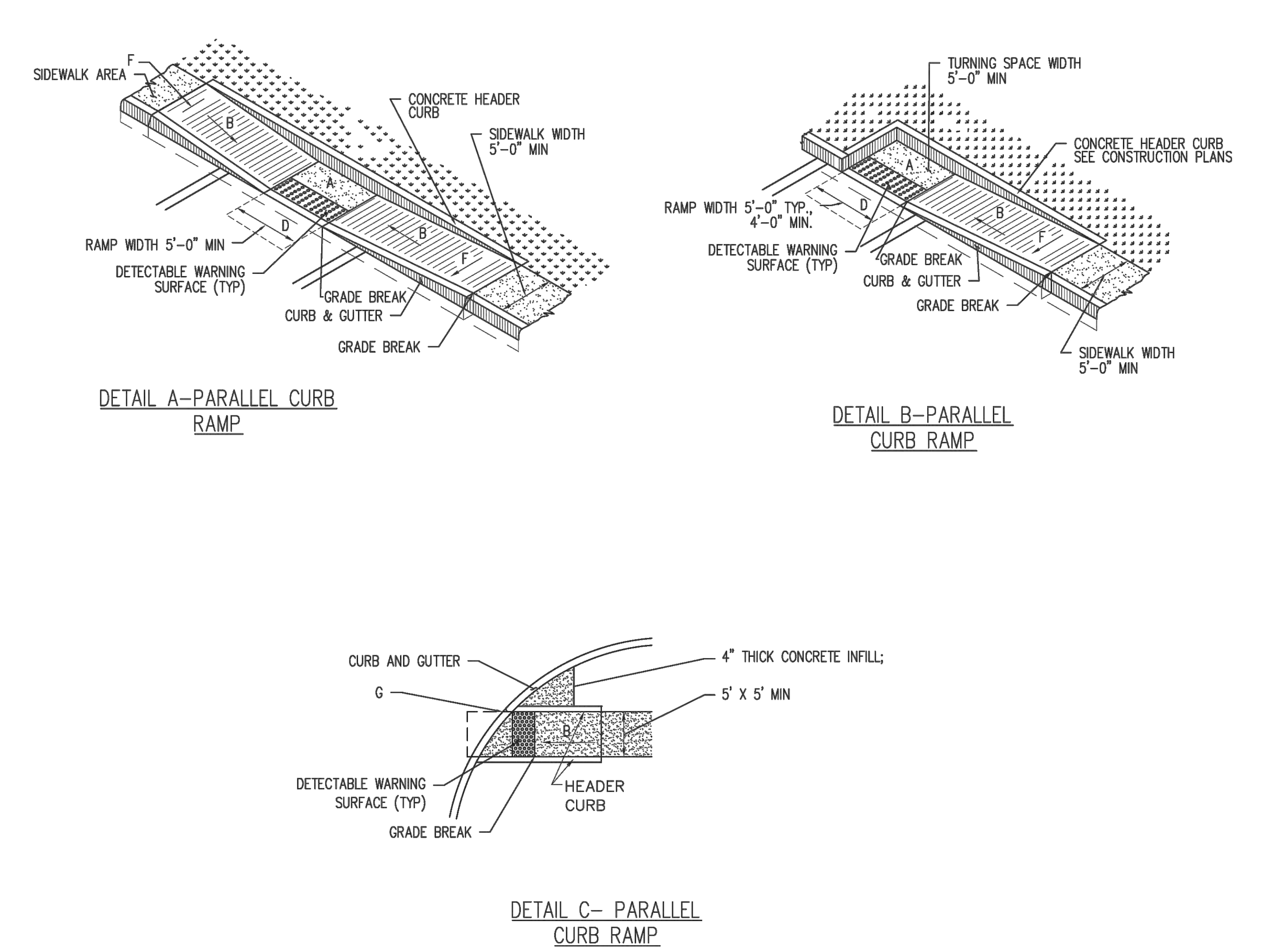
GENERAL NOTES

SEE COA DRAWING 2415A

CONSTRUCTION NOTES

A. REQ. CONC. CHANNEL LINING, OR CUT-OFF WALL, PROVIDE 1/4" EXP JOINT BETWEEN BACK OF CURB & CHANNEL LINING AND/OR WALL.
B. VARIABLE, DEPRESS AS NEEDED.
C. DRIVE NO. 4 PINS 18" DEEP IN HOLES DRILLED @ 2" O.C. IN EXISTING PAVEMENT, SEAL WITH EPOXY.
D. EXISTING ASPHALT CONCRETE (AC) OR PORTLAND CEMENT CONCRETE (PCC) PAVEMENT.
E. FACE OF CURB.
F. TRAFFIC SIDE.
G. 3/4" RADIUS.
H. 1-1/2" RADIUS.
J. 2" RADIUS.
K. 24" RADIUS.
L. TACK COAT.
M. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
N. 4" AC: MAJOR LOCAL OR LARGER (SP-III)
   3" AC: LOCAL RESIDENTIAL STREET (TYPE C)
   2" AC: BICYCLE PATH (TYPE C, RESIDENTIAL OR SP-IV)
P. 8" SCARIFIED AND COMPACTED SUBGRADE. 95% MINIMUM COMPACTION PER SECTION 301.
Q. AC PAVEMENT.
R. #4 CONT. BETWEEN JOINTS 3" COVER AT JOINTS.
S. #3 PINS @ 3'-0" O.C. W/STD. HOOK.
T. MAY BE POURED MONOLITHICALLY WITH THE CURB.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING CURB AND GUTTER AND TEMPORARY PAVING SECTIONS DWG. 2415C JUNE 2019



DETAIL A–PARALLEL CURB RAMP — DETAIL B–PARALLEL CURB RAMP — DETAIL C– PARALLEL CURB RAMP

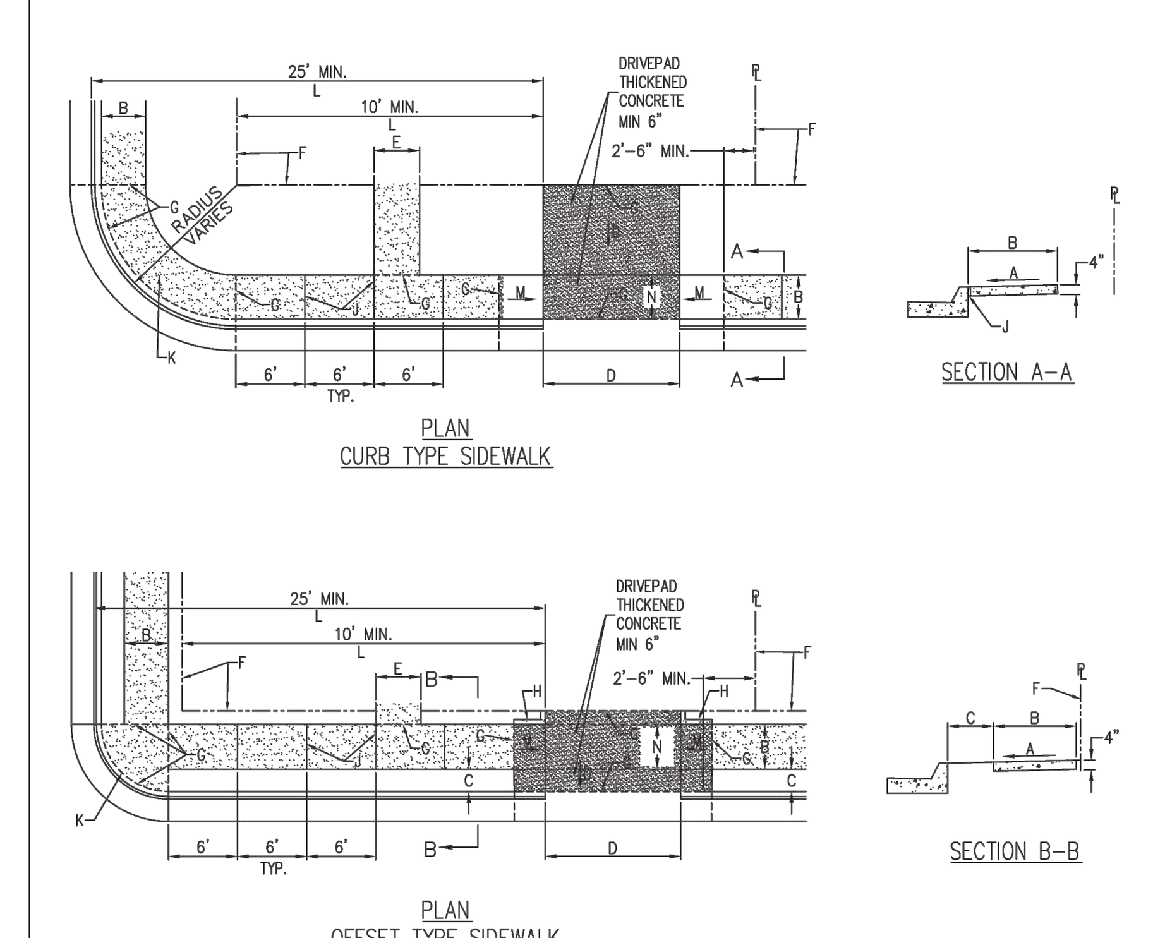
GENERAL NOTES

1. RUNNING SLOPE OF A CURB RAMP SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15-FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE EXTENDED AS FLAT AS THE MAXIMUM EXTENT AS FEASIBLE.
2. SEE COA STD. DWG. 2446 FOR DETECTABLE WARNING DEVICE DETAILS.

CONSTRUCTION NOTES

A. TURNING SPACE SHALL HAVE MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0% (PREFERRED SLOPE OF 1.5%). TURNING SPACE SHALL BE 5.0 FT BY 5.0 FT AT THE TOP OF THE CURB RAMP.
B. 8.3% MAX. SLOPE OF RAMP, 7% PREFERABLE SLOPE OF RAMP.
C. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
D. COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, RUN OR TURNING SPACE SHALL BE 5% MAX.
E. FLARED SIDES ARE TO HAVE A SLOPE OF 10% MAX, MEASURED PARALLEL TO THE BACK OF THE CURB.
F. 2% MAXIMUM CROSS-SLOPE. 1.5% PREFERRED CROSS-SLOPE.
G. FILLET SHARP CURVES EXPOSED TO TRAFFIC TO 6" MINIMUM RADIUS.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING PARALLEL AND DIAGONAL CURB RAMPS DWG. 2443 JUNE 2019



PLAN CURB TYPE SIDEWALK — SECTION A–A — PLAN OFFSET TYPE SIDEWALK — SECTION B–B

GENERAL NOTES

1. DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER AND/OR CITY TRAFFIC ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. SUBGRADE UNDER SIDEWALKS AND DRIVEPADS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 301.
3. FOR SIDEWALKS LESS THAN 60" WIDE ON ACCESSIBLE ROUTE, PASSING SPACE AT LEAST 60" X 60" SHALL BE PROVIDED AT LEAST EVERY 200 FT.
4. GRATINGS LOCATED IN WALKING SURFACE SHALL HAVE SPACES NO GREATER THAN ½" WIDE IN DIRECTION OF TRAVEL. IF OPENINGS ARE ELONGATED, LONG DIMENSION SHALL BE PLACED PERPENDICULAR TO DIRECTION OF TRAVEL.
5. ALONG THE ACCESSIBLE ROUTE, CHANGES IN LEVEL BETWEEN ¼" AND ½" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2H:1V. CHANGES IN LEVEL GREATER THAN ½" REQUIRE A RAMP.
6. PROVIDE A MINIMUM SIDEWALK WIDTH OF 4' AROUND OBSTACLES FOR ADA ACCESS.
7. SEE COA STD DWG 2425A AND 2425B FOR DRIVEPAD DETAILS.

CONSTRUCTION NOTES

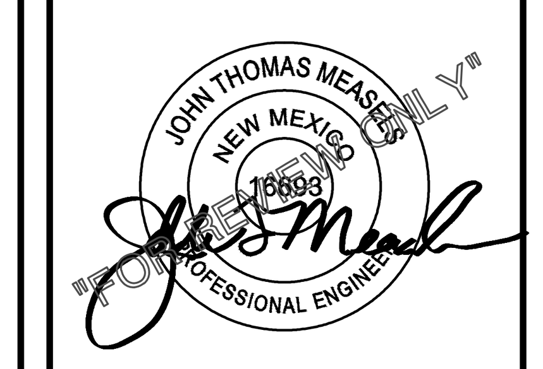
A. SLOPE 2% MAX. 1.5% PREFERRED SLOPE.
B. 5' MIN. SIDEWALK WIDTH. SIDEWALK WIDTH SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF DEVELOPMENT PROCESS MANUAL.
C. SETBACK TO BE DETERMINED BY AVAILABLE RIGHT-OF-WAY. SEE CHAPTER 7 OF DEVELOPMENT PROCESS MANUAL. ALSO SEE COA STD. DWG. 2414 FOR LANDSCAPE BUFFER.
D. SEE DRIVEPAD DETAILS, DWG. 2425A AND 2425B.
E. WALKWAY VARIABLE (4' MINIMUM).
F. PROPERTY LINE.
G. 1/2" EXPANSION JOINTS WHERE SIDEWALK OR DRIVEPAD ABUTS BUILDINGS, FENCES, WALLS OR OTHER IMMOVABLE OBJECTS.
H. HEADER CURB OR INTEGRAL CURB AS REQUIRED TO MEET GRADE AT BACK OF SIDEWALK. SEE STD. DWG. 2415.
J. CONTRACTION JOINTS.
K. FOR CURB ACCESS RAMPS, SEE DWGS. 2440 THROUGH 2445.
L. CHECK DIMENSION FROM BOTH PROPERTY LINE AND FLOW LINE. USE IN AREAS WHERE DRIVEPAD IS FARTHEST FROM INTERSECTION.
M. RAMP AS REQUIRED TO MEET DRIVEPAD GRADE. 8.3% MAX. SLOPE, 7% PREFERRED SLOPE.
N. ADA ACCESSIBLE PATHWAY. 2% MAX. CROSS-SLOPE. 1.5% PREFERABLE CROSS-SLOPE.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING SIDEWALK DETAILS DWG. 2430 JUNE 2019

JM CIVIL
1101 Central Expressway South
Suite 215
Allen, TX 75013

Ph. 214-491-1830

John Measels, PE
CIVIL ENGINEER



11/12/2025

CITY DETAILS

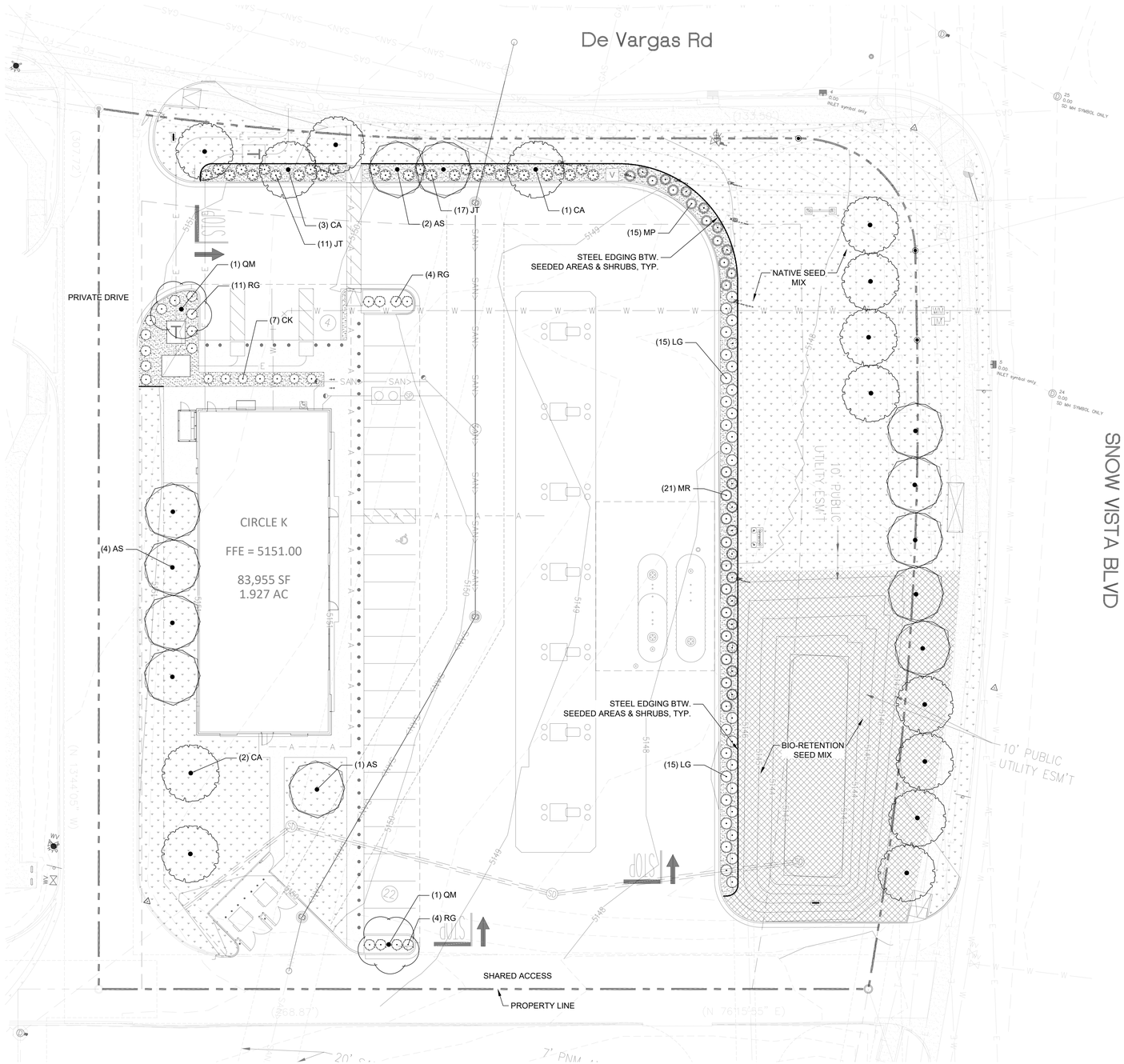
CIRCLE K, INC
LOT 1A, SNOW VISTA INVESTORS
9800 DE VARGAS RD.
ALBUQUERQUE, NEW MEXICO 87121

REV	DATE	DESCRIPTION	NAME
	11/12/25	INITIAL SUBMITTAL	GPK

PROJECT NO: JM-DIM25001
DRAWN BY: ASB, JK, GPK
CHECKED BY: KWF
ISSUE DATE: 11/20/2025

DETAILS

C 720



NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

LANDSCAPE CALCULATIONS

JURISDICTION:	CITY OF ALBUQUERQUE, NM
ZONING:	NR-C NON-RESIDENTIAL COMMERCIAL
NET SITE AREA:	83,942 SF / 1.92 AC
LANDSCAPE AREA REQUIRED:	12,591.3 SF (15% OF SITE AREA)
LANDSCAPE AREA PROVIDED:	34,786 SF (41% OF SITE AREA)

STREET FRONTAGE LANDSCAPING

FRONTAGE LENGTH - DE VARGAS RD.:	297 LF
STREET TREES REQUIRED:	12 TREES (1 PER 25 LF OF FRONTAGE)
STREET TREES PROVIDED:	12 TREE*

*SOME TREES LOCATED IN ALTERNATIVE LOCATIONS DUE TO UTILITY CONFLICTS

FRONTAGE LENGTH - SNOW VISTA BLVD.:	313 LF
STREET TREES REQUIRED:	13 TREES (1 PER 25 LF OF FRONTAGE)
STREET TREES PROVIDED:	13 TREE*

*SOME TREES LOCATED IN ALTERNATIVE LOCATIONS DUE TO UTILITY CONFLICTS

PARKING LOT LANDSCAPING

TOTAL VEHICULAR USE AREA:	33,610 SF
SHARED ACCESS AREA:	3,756 SF
PARKING LOT AREA:	27,636 SF
LANDSCAPE AREA REQUIRED:	2,764 SF (10% OF PARKING AREA)
LANDSCAPE AREA PROVIDED:	2,764+ SF (10% OF PARKING AREA)
PERIMETER SCREENING:	PROVIDED
TOTAL PARKING SPACES:	26 SPACES
TREES REQUIRED:	3 TREE (1 TREE PER 10 SPACES)
TREES PROVIDED:	3 TREES*

*SOME TREES LOCATED IN ALTERNATIVE LOCATIONS DUE TO UTILITY CONFLICTS

TOTAL LANDSCAPE AREA:	34,786 SF
MINIMUM REQUIRED COVERAGE:	26,090 SF (75% OF LANDSCAPE AREA)
COVERAGE PROVIDED OVERALL:	32,739 SF (94%)
PROVIDED GROUND LEVEL COVERAGE:	32,739 SF (94%)

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
TREES					
	AS	Acer negundo 'Sensation' / Sensation Box Elder	2" Cal.	Cont. or B&B	12
	CA	Chilopsis linearis 'Art's Seedless' / Art's Seedless Desert Willow	2" Cal.	Cont. or B&B	14
	QM	Quercus muehlenbergii / Chinkapin Oak	2" Cal.	Cont. or B&B	2
SHRUBS					
	CK	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	3 gal.	Cont.	7
	JT	Juniperus chinensis 'Monlep' / Mint Julep® Chinese Juniper	5 gal.	Cont.	28
	LG	Leucophyllum frutescens 'Green Cloud' / Green Cloud Texas Sage	5 gal.	Cont.	30
	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	1 gal.	Cont.	19
GRASSES					
	MR	Muhlenbergia rigens / Deer Grass	3 gal.	Cont.	21
	MP	Muhlenbergia rigida / Purple Muhly	3 gal.	Cont.	15

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY
GROUND COVERS						
	LA	Bio-Retention Seed Mix Bouteloua gracilis 'Hachita' – 2 pls per 1 ac. Artemisia frigida – .25 pls per 1 ac Spaeralcea parvifolia – .25 pls per 1 ac Oenothera pallida – .25 pls per 1 ac Baileya multiradiata – .25 pls per 1 ac Berlandiera lyrata – .25 pls per 1 ac	seed			8,629 sf
	NM	Earthwise Seed Company / Southwest Native Meadowscaping Mix Alter 1 lbs per 1,000 sf	seed			22,564 sf
ROCK / STONE						
	DR	Buildology Brown Fine 3" Compacted Rock Mulch over weed barrier/landscape fabric.	---			2,047 sf

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Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER

National Presence. Local Expertise.
EVERGREEN DESIGN GROUP
(630) 690-6630
www.evergreendesigngroup.com
LANDSCAPE ARCHITECTURE
LAND PLANNING IRRIGATION DESIGN

STATE OF NEW MEXICO
KENNETH D. BATES
2024-0007
REGISTERED LANDSCAPE ARCHITECT
11/17/2025

LANDSCAPE PLANTING PLAN

CIRCLE K, INC
SWQ DE VARGAS RD AND SNOW VISTA BLVD
ALBUQUERQUE, NEW MEXICO

REV	DATE	DESCRIPTION	NAME
	05/07/25	SCHEMATIC SUBMITTAL	ASB
	05/09/25	ADD SEWER RE-ROUTE	ASB

PROJECT NO: JM-DW25001
DRAWN BY: JML
CHECKED BY: KB
ISSUE DATE: 11/17/2025

LP-1

P:\SHARED\PROJECTS\2025\CIRCLE K\CIRCLE K - ALBUQUERQUE NM - DEVARGAS & 98TH\CIRCLE K - ALBUQUERQUE NM - DEVARGAS & 98TH.DWG 11/17/2025 11:07 AM JEFFREY LUERS