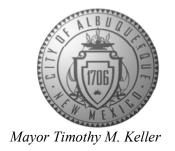
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 9, 2025

Graeme Means, P.E. High Mesa, a Bowman Company 6010-B Midway Park Blvd NE Albuquerque, NM 87109

RE: Brillante! Early Learning Center

1005-B 18th Street NW Grading and Drainage Plan Engineer's Stamp Date: 02/28/2025

Hydrology File: J13D218 Case # HYDR-2025-00076

Dear Mr. Means:

PO Box 1293

Based upon the information provided in your submittal received 3/7/2025, the Grading and Drainage Plans are approved for Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

www.cabq.gov

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E. Senior Engineer, Hydrology

anth Mars

Planning Department, Development Review Services

DRAINAGE PLAN:

INTRODUCTION AND EXECUTIVE SUMMARY

THIS SITE IS LOCATED IN THE SAWMILL AREA ON THE WEST SIDE OF 18th STREET NW, NORTH OF THE NM MUSEUM OF NATURAL HISTORY, AND IS OWNED BY THE EXPLORA EDUCATIONAL DEVELOPMENT, LLC. THIS PLAN HAS BEEN PREPARED AND SUBMITTED FOR BUILDING PERMIT APPROVAL FOR THE NEW BRILLANTE EARLY LEARNING CENTER (CPN 7011.95). THIS NEW BUILDING WILL BE PART OF THE CITY OF ALBUQUERQUE'S DEVELOPMENT OF LOT 1-B-2 OLDTOWN-FREEWAY, LIMITED. THE PROPOSED IMPROVEMENTS REFERENCED HEREIN ARE IN ACCORDANCE WITH THE OVERALL DRAINAGE CONCEPTS SET FORTH IN THE APPROVED 2023 CONCEPTUAL GRADING AND DRAINAGE PLAN FOR LOTS 1-B-1 AND 1-B-2, OLDTOWN-FREEWAY, LIMITED, DATED 05-12-2023 (J13-D101)

THE BRILLANTE SITE IS DESIGNED AND WILL BE CONSTRUCTED BY A CITY PROJECT. THE PROPOSED OVERALL DRAINAGE CONCEPT WILL BE TO USE SUBSURFACE INFILTRATION SYSTEMS TO INITIALLY RETAIN APPROXIMATELY 60% OF THE 100-YEAR RUNOFF FROM THE LOT, WITH EXCESS RUNOFF FROM LARGER EVENTS OVERFLOWING TO THE EAST TO 18^{IH} STREET AND TO THE WEST TO LOT 1-B-1.

THERE IS AN EXISTING LINEAR RETENTION POND ALONG THE EASTERN FRONTAGE OF THE SITE THAT RECEIVES RUNOFF FROM THE EASTERN THIRD OF THE LOT UNTIL THE POND CAPACITY IS EXCEEDED AND IT WILL THEN OVERFLOW TO THE WEST ONTO PROPOSED LOT 1-B-1. THIS LINEAR POND CONTINUES TO THE NORTH ACROSS THE EASTERN FRONTAGE OF ADJACENT LOT 2-A AND RECEIVES RUNOFF FROM MOST OF LOT 2-A UNTIL THE POND CAPACITY IS EXCEEDED AND IT WILL THEN OVERFLOW TO THE SOUTH ONTO THE SUBJECT SITE. THE SITE IS SUBJECT TO A PRIVATE CROSS-LOT DRAINAGE EASEMENT WITH LOT 2-A TO THE NORTH ESTABLISHED BY PRIOR PLATTING AND CURRENTLY ACCEPTS RUNOFF FROM THE SW CORNER OF LOT 2-A DURING LARGE STORMWATER EVENTS THAT EXCEED RETENTION POND CAPACITY. THESE EXISTING FLOWS WILL CONTINUE TO BE ACCEPTED AT THE NW CORNER OF LOT 1-B-2 / NE CORNER OF LOT 1-B-1.

II. PROJECT DESCRIPTION

THE EXISTING LEGAL DESCRIPTION IS LOT 1-B-2, OLDTOWN-FREEWAY, LIMITED. THIS LOT WAS CREATED BY 2024 PLATTING ACTION (24C-0023). LOTS 1-B-1, 1-B-2, AND 2-A ALL HAVE CROSS-LOT DRAINAGE EASEMENTS THAT WILL BE MAINTAINED AND HONORED WITH THIS PROPOSED BUILDING PROJECT.

AS INDICATED BY PANEL 331 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY. NEW

MEXICO. EFFECTIVE AUGUST 16. 2012. A PORTION OF THE SITE IS ENCUMBERED BY A DESIGNATED FLOOD HAZARD ZONE (AH 4959). THE PROPOSED BUILDING WILL LIE OUTSIDE OF THE AH ZONE LIMITS AND BE ELEVATED TO A PROPOSED FF OF 4962, THIS PROJECT WILL NOT GRADE WITHIN OR DISPLACE ANY OF THE EXISTING FLOODPLAN.

III. BACKGROUND DOCUMENTS & RESEARCH

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS

• CONCEPTUAL GRADING AND DRAINAGE PLAN FOR LOTS 1-B-1 AND 1-B-2, OLDTOWN-FREEWAY LIMITED, PREPARED BY HMCG DATED 05/12/2023, NMPE 13676. THIS CONCEPTUAL PLAN WAS APPROVED BY CITY HYDROLOGY ON 5-26-23 AND RECORDED IN DRAINAGE FILE J13-D218. THIS PLAN ADDRESSED THE EXISTING DRAINAGE CONCEPTS FOR BASIN 1-B-1 AND 1-B-2, INCLUDING THE EXISTING ONSITE STORMWATER PONDS, PRIVATE SUBSURFACE STORMDRAIN SYSTEMS, AND IMPACT OF THE EXISTING FLOODPLAIN ALONG THE WEST BORDER OF LOTS 1-B-1 AND 1-B-2. THIS PLAN ESTABLISHED THE CRITERIA FOR A NEW SUBSURFACE STORMWATER INFILTRATION SYSTEM WITH A CAPACITY OF 14,000 CF TO REPLACE THE EXISTING 7,785 CF POND ALONG THE EAST EDGE OF THE SITE THAT WILL BE REMOVED DURING SITE DEVELOPMENT. THIS SUBSURFACE STORMWATER INFILTRATION SYSTEM MUST ALSO CAPTURE THE STORMWATER QUALITY VOULUME GENERATED BY THE SITE. THE 2023 PLAN ALSO DENOTES THAT THE OVERFLOW FROM THIS BASIN IS PERMITTED TO RELEASE TO 18^{1H} STREET NW AT 2.75 CFS/ACRE AS ESTABLISHED BY THE COA DPM SECTION 6-5(C) FOR NON-SINGLE FAMILY RESIDENTIAL AND COMMERCIAL DEVELOPMENT. FINALLY, THE APPROVED 2023 PLAN DENOTES THAT LOT 1-B-2 ACCEPT OVERFLOW RUNOFF FROM LOT 2-A VIA THE EXISTING FLOOD PLAIN ALONG THE WEST EDGE OF LOT 1-B-2

IV. EXISTING CONDITIONS

THE SITE IS BOUNDED ON THE EAST BY 18TH STREET <u>N</u>W, A FULLY DEVELOPED PUBLIC STREET WITH CURB AND GUTTER. THERE IS NO PUBLIC STORM DRAIN IN THE 18TH STREET FRONTAGE, AND THERE IS HIGH POINT IN 18TH STREET NEAR THE NE CORNER OF THE SITE WHEREBY 18TH STREET DRAINS FROM NORTH TO SOUTH TO THE INTERSECTION AT MOUNTAIN ROAD NW WHERE EXISTING STORM INLETS INTRODUCE RUNOFF INTO THE MOUNTAIN STORM DRAIN. LOT 2-A TO THE NORTH IS A PAVED STORAGE LOT THAT IS TOPOGRAPHICALLY HIGHER THAN LOT 1-B-2. THE SITE IS BOUNDED ON THE WEST BY AN OLD RAIL SPUR. THE SITE IS BOUNDED ON THE SOUTH BY THE EXISTING NATURAL HISTORY MUSEUM.

THE SITE IS ALMOST ENTIRELY IMPERVIOUS - PAVED WITH ASPHALT PAVEMENT EXCEPT FOR THE EXISTING RETENTION POND ON THE EAST SIDE. IT WAS PREVIOUSLY USED AS A STORAGE FACILITY. THE SITE IS DIVIDED INTO TWO EXISTING DRAINAGE BASINS WITH THE EASTERN PORTION OF BASIN 1-B-2 (APPROXIMATELY 1/2 OF THE SITE AREA) GENERALLY SLOPING TO THE EAST TO AN EXISTING LINEAR RETENTION POND FRONTING THE LOT ALONG 18^{1H} STREET. THIS POND HAS A CAPACITY OF 7,785 CF THAT IS LESS THAN THE 15,560 CF 100 YEAR 6-HR VOLUME GENERATED BY THE OVERALL LOT. THE WESTERN 1/2 OF THE BASIN 1-B-2 GENERALLY DRAINS TO THE WEST TO THE EXISTING FLOOD HAZARD ZONE ALONG THE RAILROAD SPUR AND THEN SOUTH WITHIN THE FLOODPLAIN WHERE IT DISCHARGES NEAR THE SE CORNER OF LOT 1-B-1 TO AN EXISTING CONCRETE CHANNEL. THE CHANNEL RUNS ALONG THE NORTHERN PROPERTY LINE OF THE NATURAL HISTORY MUSEUM, AND WAS CONSTRUCTED TO ACCEPT RUNOFF FROM THE SITE PURSUANT TO THE AFOREMENTIONED 1983 AGREEMENT. ALL RUNOFF IS SURFACE DRAINAGE AND THERE ARE NO SUBSURFACE STORM DRAINS.

OFFSITE FLOWS DO NOT ENTER THE SITE FROM 18TH STREET THAT HAS CURB AND GUTTER, OR FROM THE NATURAL HISTORY MUSEUM TO THE SOUTH. THE RAIL SPUR AREA TO THE WEST EXHIBITS PARALLEL TOPOGRAPHY AT A SLIGHLY LOWER ELEVATION AND DOES NO CONTRIBUTE OFFISTE FLOWS.

OFFSITE FLOWS ENTER THE SITE FROM THE NORTH FROM LOT 2-A. AS FURTHER DESCRIBED BY THE FOLLOWING: THERE IS A LINEAR RETENTION POND THAT RUNS ALONG THE EAST SIDE OF LOTS 2-A AND 1-B-2. THE MAJORITY (3/4) OF THE LOT DRAINS TO THE EAST DIRECTLY TO THE RETENTION POND, AND THE WESTERN ¼ OF THE LOT DRAINS TO THE WEST TO FLOOD ZONE AREA AND THEN SOUTH ALONG THE OLD RAILROAD SPUR TO A SET OF SINGLE "D" INLETS NEAR THE SE CORNER OF LOT 1-A THAT ARE THEN PIPED TO THE EAST BACK TO THE RETENTION POND. RUNOFF IN EXCESS OF THE ONSITE LOT 2-A PONDING (10,745 CF) WILL OVERFLOW AND CONTINUE TO THE SOUTH ONTO EXISTING LOT 1-B-1 WITHIN THE RAILROAD SPUR FLOODPLAIN AREA. THIS FLOW MUST CONTINUE TO BE ACCEPTED AND CONVEYED ALONG THE FLOODPLAIN AREA.

IN SUMMARY, THE COMBINED RETENTION PONDS ON LOTS 2-A AND 1-B-2 HAVE A CAPACITY OF 18,530 CF WHEREAS THE COMBINED 100 YEAR, 6 HOUR VOLUME IS 28,030 CF AND THE COMBINED 100 YEAR, 10-DAY VOLUME IS 42,795 CF. COMBINED RUNOFF IN EXCESS OF 18,530 AT WSL 4958 WILL RESULT IN EITHER BACK-UP OR BYPASS INTO THE EXISTING RAILROAD SPUR FLOODPLAIN AREA BETWEEN LOTS 1-B-1 AND 1-B-2 THAT WILL OUTFALL TO THE DRAINAGE CHANNEL ON THE NATURAL

V. DEVELOPED CONDITIONS

LOT 1-B-2 WILL BE DEVELOPED AS THE BRILLANTE EXPLORA EARLY CHILDHOOD CENTER BY THE CITY OF ALBUQUERQUE CPN 7011.95. IT WILL BE A 13,400 SF BUILDING. THE BUILDING WILL BE CENTRALLY LOCATED, WITH PAVED PARKING ON THE NORTH AND SOUTH SIDES OF THE BUILDING, AND LANDSCAPED PLAY AREAS TO THE EAST AND WEST SIDES. DEVELOPMENT OF THE SITE WILL FILL IN THE EXISTING LINEAR RETENTION POND ALONG THE 18TH STREET FRONTAGE FOR THIS LOT AND INSTALL A NEW SUBSURFACE RETENTION / INFILTRATION STORAGE SYSTEM WITH CAPCITY FOR 14,000 CF, LOCATED IN THE SOUTH PARKING LOT. THIS 14,000 CF SYSTEM GREATLY EXCEEDS THE EXISTING 7,785 CF POND BEING REMOVED AND WILL HAVE INITIAL STORAGE (NOT COUNTING INFILTRATION) FOR 100% OF THE 100 YEAR, 6-HOUR EVENT. AN OVERFLOW FOR THE SYSTEM IS DESIGNED TO DISCHARGE THE EXCESS V10 DAY VOLUME (20,770 CF) TO 18^{1H} STREET VIA BUBBLER INLET AND SIDEWALK CULVERT THAT IS LIMITED TO LESS THAN THE 2.75 CFS/ACRE ALLOWED IN THE VALLEY PER DPM 6-5(C). LOT 1-B-2 IS 2.04 ACRE, SO THE ALLOWABLE OVERFLOW DISCHARGE EQUATES TO 5.6 CFS; THE 12" OVERFLOW STORM DRAIN IS CALCULATED TO DISCHARGE AT 4.4 CFS.

ROOF DRAINAGE AND HARDSCAPE AREAS WILL DRAIN VIA A COMBINATION OF SURFACE FLOW TO STORM INLETS, AND DIRECT ROOF DRAIN PIPING PIPING TO A NEW PRIVATE SUBSURFACE STORM DRAIN SYSTEM THAT DISCHARGES INTO THE 14,000 CF STORAGE SYSTEM.

THE SITE GENERATES 2,130 CF OF STORMWATER QUALITY VOLUME THAT WILL BE CONVEYED TO / MANAGED BY THE 14,000 CF STORMWATER STORAGE SYSTEM.

OVERFLOW RUNOFF FROM LOT 2-A WILL BE ACCEPTED AT THE NW CORNER OF LOT 1-B-2 AND FLOW THROUGH THE WEST EDGE OF THE SITE IN THE EXISTING RAILROAD SPUR FLOODPLAIN AREA. THE FLOODPLAIN AREA NOT BE CHANGED, AND NO OBSTRUCTIONS WILL BE CONSTRUCTED WITHIN THE FLOODPLAIN. A NEW STORM INLET WILL BE INSTALLED NEAR THE SOUTHWEST CORNER OF THE SITE WITHIN THE FLOODPLAIN AREA TO ACCEPT RUNOFF FROM THE FUTURE PLAY AREAS ON THE WEST SIDE OF THE BUILDING AND CONNECT TO THE NEW 14,000 CF INFILTRATION SYSTEM. A CHECKVALVE WILL BE INSTALLED ON THE PIPING FROM THE FLOODPLAIN AREA TO THE 14,000 CF STORAGE SYSTEM TO AVOID OVERFLOW FROM THAT SYSTEM DISCHARGING TO THE FLOODPLAIN.

VI. CALCULATIONS

CALCULATIONS ANALYZING THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100 YEAR, 6-HOUR RAINFALL EVENT HAVE BEEN PREPARED FOR BASIN 1-B-2. IN ADDITION, 100 YEAR 10-DAY CALCULATIONS HAVE BEEN PREPARED FOR BASIN 1-B-2 AS THEY DRAIN TO A SUBSURFACE INFILTRATION / DETENTION SYSTEM. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN DPM 6-2(A) HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED DEVELOPMENT WILL RESULT IN A DECREASE IN PEAK RATE AND VOLUME OF RUNOFF GENERATED VIA THE CONVERSION OF MOSTLY INPERVIOUS PAVING TO A SITE WITH A RELATIVELY SIGNIFICANT PERCENTAGE OF LANDSCAPING. THE PROPOSED V100, AND Q100 (14,000 CF AND 7.9 CFS) ARE LESS THAN THE VOLUME AND RATE ANTICIPATED BY THE CONCEPTUAL PLAN (15,060 CF AND 8.1 CFS).

VII. CONCLUSIONS

RETENTION.

- 1. THIS DRAINAGE PLAN ADDRESSES THE DEVELOPMENT OF PROPOSED LOT 1-B-2 TO SUPPORT BUILDING PERMIT APPROVAL. 2. SITE DEVELOPMENT WILL RESULT IN A DECREASE IN STORMWATER VOLUME GENERATED AND PEAK RATE OF DISCHARGE AS COMPARED TO BOTH THE EXISTING CONDITION AND THE CONDITION ANTICIPATED BY THE CONCEPTUAL PLAN.
- 3. LOT 1-B-2 WILL CONTINUE TO ACCEPT OFFSITE FLOWS FROM THE NORTH (BASIN 2-A), AND WILL PROVIDE NEW SUBSURFACE RETENTION / INFILTRATION STORAGE SYSTEM WITH CONTROLLED OVERFLOW RELEASE TO 18^{TH} STREET NW AT THE ALLOWABLE RATE ($Q_{OVERFLOW} = 4.4$ CFS < $Q_{ALLOW 2.5}$ CFS/AC = 5.6 CFS).
- 4. PORTIONS OF THE FLOODPLAIN AREA AT THE WEST EDGE OF THE SITE WILL BE RE-DEVELOPED FROM ASPHALT PAVEMENT TO GRAVEL MULCH LANDSCAPING, HOWEVER, THE GRADE WITHIN THAT AREA WILL NOT BE CHANGED AND NO NEW OBSTRUCTIONS WILL BE CONSTRUCTED WITHIN THE FLOODPLAIN LIMITS. 5. STORMWATER QUALITY VOLUME GENERATED BY THE SITE (2,130 CF) WILL BE MANAGED ON SITE VIA DISCHARGE TO THE 14,000 CF SUBSURFACE INFILTRATION /

CALCULATIONS:

. SITE CHARACTERISTICS

PRECIPITATION ZONE = 2.29 IN $P_{100, 6 HR} = P_{360} =$ TOTAL PROJECT AREA (A_T)

1.	EXISTING LAND TREATMENT		DEVELOPED LAND TREATMENT				
	BASIN 1-B-2	88,910 SF BASIN 4 B 2	BASIN 1-B-2	88,910 SF			
	BASIN 1-B-2	2.04 AC		BASIN 1-B-2	2.04 AC		
	LAND TREATMENT	AREA (SF/AC)	%	LAND TREATMENT	AREA (SF/AC)	%	
	Α			Α			
	В			В	11,000 SF	12%	
				ı	0.25 AC		
	С	16,000 SF	18%	18%	С	17,020 SF	20%
	9	0.37 AC		Ŭ	0.39 AC	2070	
	D	72,910 SF	82%	D	60,890 SF	68%	
	U	1.67 AC			1.40 AC		

II. HYDROLOGY A. EXISTING CONDITION 100 YEAR STORM

BASIN 1-B-2 A VOLUME 100 VD & HD

\Rightarrow (0.62 • 0.00) + (0.80 • 0.00) +	(1.03 • 0.37) + (2.33 • 1.67)/2.04 =	2.10 IN
$V_{100,6 \text{ HR}} = (E_W/12) \cdot A_T \Rightarrow$	(2.10/12) • 2.04 = 0.3572 AC-FT =	15,560 CF
b. VOLUME 100-YR, 10-DAY		
$V_{10Day} = V_{100,6HR} + A_D * (P_{10Day} - P_{360}) /$	12 in/ft	
V _{10Day} = 0.3572 + 1.67 * (3.62 - 2.29) / 12	? in/ft = 0.5423 AC-FT =	23,620 CF
. PEAK DISCHARGE 100-YR		
$Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D$	• A _D	
⇒ (1.71 • 0.00) + (2.36 • 0	$.00) + (3.05 \cdot 0.37) + (4.34 \cdot 1.67) =$	8.4 CFS

B. DEVELOPED CONDITION 100 YEAR STORM BASIN 1-B-2

<u>a. VOLUME 100-YR, 6-HR</u>

$\overline{WT_E = (E_A \cdot A_A + E_B \cdot A_B + E_C \cdot A_C)}$	+ E _D • A _D)/A _T	
⇒ (0.62 • 0.00) + (0.80 • 0.2	1.89 IN	
$V_{100,6 HR} = (E_W/12) \cdot A_T$	\Rightarrow (1.89/12) • 2.04 = 0.3215 AC-FT =	14,000 CF
b. VOLUME 100-YR, 10-DAY		
$V_{10Day} = V_{100,6HR} + A_D * (P_{10Day} - P_{10Day} - P_{10Da$		20.770.CE

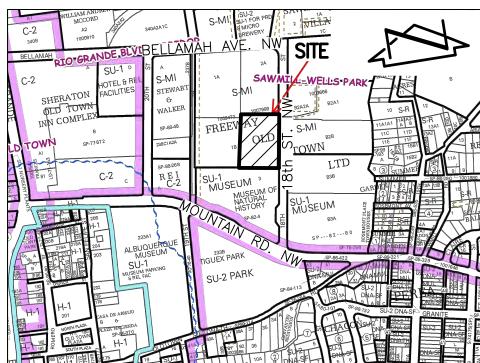
 $V_{10Day} = 0.3215 + 1.40 * (3.62 - 2.29) / 12 in/ft =$ 0.4767 AC-FT = 20,770 CF c. STORM WATER QUALITY VOLUME $V_{SWQV} = ((P_{SWQV})/12) \cdot A_D$ \Rightarrow ((0.42)/12) • (1.40) = 0.0489 AC-FT =2,130 CF $Q_{100} = Q_A \cdot A_A + Q_B \cdot A_B + Q_C \cdot A_C + Q_D \cdot A_D$

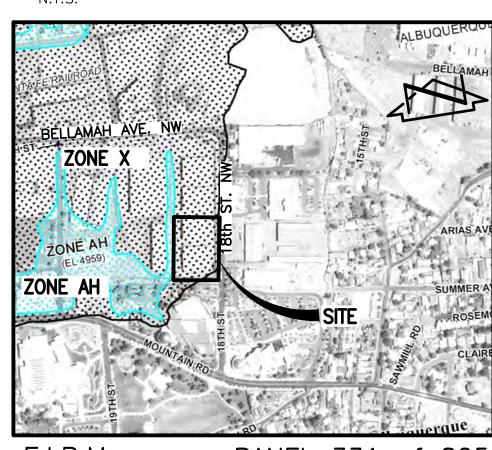
\Rightarrow (1.71 • 0.00) + (2.36 • 0.25) + (3.05 • 0.39) + (4.34 • 1.40) = 7.9 CFS e. 12" OVERFLOW STORM DRAIN CAPACITY (ORIFICE EQUATION FOR PIPE ENTRANCE CA

$Q_{12"OVERFLOW} = C*A*(2g*h)^{0.5}$ \Rightarrow 0.98 * 0.79 FT² * (2 * 32.2 FT/\$² * 0.5 FT)^{0.5} = 4.4 CFS $Q_{ALLOW 2.75 CES/AC} = 5.6 CFS > Q_{12' OVERFLOW} = 4.4 CFS$

C. COMPARISON 100 YEAR STORM 1. BASIN A-1

-1,560 CF	(DECREASE)
	-
-0.5 CFS	(DECREASE)





F.I.R.M. N.T.S.

PANEL 331 of 825 DATED 08-16-2012

LEGAL DESCRIPTION

LOT 1-B-2, FREEWAY-OLDTOWN LIMITED

PROJECT BENCHMARK

AN AGRS BRASS DISK STAMPED "5-J13A", SET IN A CONCRETE CURB, NORTH OF THE INTERSECTION OF MOUNTAIN ROAD NW AND 19TH STREET NW.

ELEVATION = 4960.499 FEET (NAVD 1988)

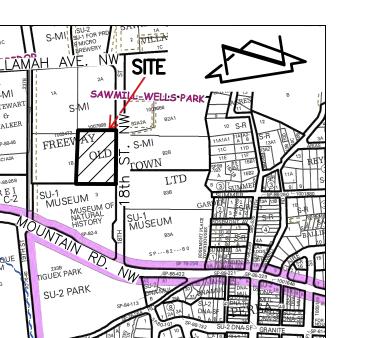
ELEVATION = 4959.78 FEET (NAVD 1988)

TEMPORARY BENCHMARK #210 (T.B.M.) A MAG NAIL SET IN ASPHALT PAVEMENT IN THE NORTHEAST QUADRANT OF THE PROJECT SITE, AS SHOWN ON SHEET 2. ELEVATION = 4960.43 FEET (NAVD 1988)

TEMPORARY BENCHMARK #211 (T.B.M.) A MAG NAIL SET IN ASPHALT PAVEMENT IN THE SOUTHEAST QUADRANT

OF THE PROJECT SITE, AS SHOWN ON SHEET 2. ELEVATION = 4959.90 FEET (NAVD 1988)

TEMPORARY BENCHMARK #212 (T.B.M.) A MAG NAIL SET IN ASPHALT PAVEMENT IN THE SOUTHWEST QUADRANT OF THE PROJECT SITE, AS SHOWN ON SHEET 2.





ARCHITECTURE, PC

DESCRIPTION

SPEC. KEY

THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES AS SHOWN ARE DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY MAPS, OR DEEDS REFERENCED HEREON AND ARE NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES.

THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 09/05/2023 (2022.066.2) AND THE PLAT OF LOTS 1-B-1 AND 1-B-2 FREEWAY-OLDTOWN, LIMITED RECORDED 3/11/24. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING

GROUP, NMPS NO. 11184, DATED 09/05/2023 (2022.066.2).

HIGH **MESA** a Bowman company

2023.057.1

SHEET NUMBER 6010-B Midway Park Blvd. NE, Albuquerque, NM 87109 P:505.345.4250 **highmesacg.com | bowman.com CG-100**

NO.

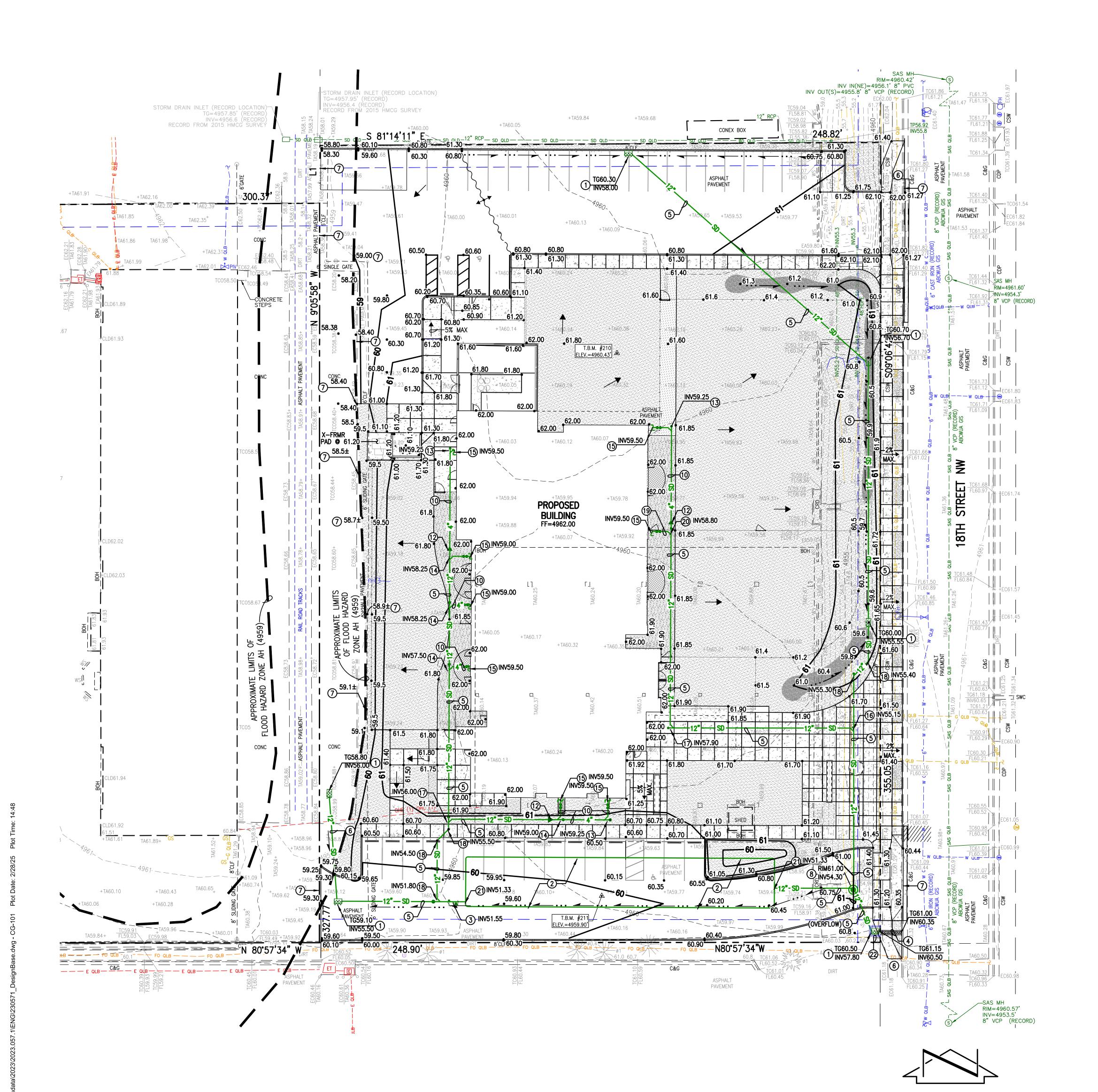
PROJECT SCALE 7011.95 CITY OF ALBUQUERQUE BRILLANTE! EARLY RMKM PROJECT NO. LEARNING CENTER 2301 - 7011.95 PROJECT MANAGER G.M. 1005-B 18th St NW MODELED BY ALBUQUERQUE, NM 87104 J.Y.R.

ISSUE

DRAINAGE PLAN, CALCULATIONS &, VICINITY MAP

DESIGN PHASE 100% CONSTRUCTION DOCUMENTS

DATE





DESCRIPTION

- TYPICAL DETAILS, SHEETS CG-502 & 503 (INVERT @ 4951.33)
- CONSTRUCT 12" SIDEWALK CULVERT PER TYPICAL SECTION, SHEET

- MATCH EXISTING ASPHALT PAVEMENT GRADE
- DETAILS, SHEET CG-501
- 9. NOT USED
- 10. INSTALL 4" PVC SDR-35 STORM DRAIN PIPE

- 13. INSTALL 4" 90 DEGREE WYE WITH SINGLE CLEANOUT TO GRADE
- 15. INSTALL DOUBLE CLEANOUT TO GRADE; CONNECT TO BUILDING
- 16. INSTALL 12" 90 DEGREE WYE
- 17. INSTALL 12" 90 DEGREE WYE WITH SINGLE CLEANOUT TO GRADE
- 18. INSTALL 12" 45 DEGREE BEND
- 19. INSTALL 6" PVC SDR-35 STORM DRAIN PIPE
- 20. INSTALL 6"x12" 90 DEGREE WYE WITH SINGLE CLEANOUT TO GRADE
- 22. CONSTRUCT 6" TALL HEADER CURB AROUND NORTH, WEST, AND

KEYED NOTES:

TO EAST ONLY)

CONSTRUCT SINGLE 'D' STORM INLET PER TYPICAL DETAILS, SHEET

- INSTALL SUBSURFACE INFILTRATION SYSTEM (STORMTRAP) PER
- INSTALL 12" CHECK VALVE (STORMWATER INTENDED TO FLOW WEST
- INSTALL 12" PVC SDR-35 STORM DRAIN
- MATCH EXISTING CONCRETE SIDEWALK GRADE
- CONSTRUCT 4' DIAMETER STORM DRAIN MANHOLE PER TYPICAL

- 11. NOT USED
- 12. INSTALL 4"x12" REDUCER
- 14. INSTALL 4"x12" 90 DEGREE WYE WITH SINGLE CLEANOUT TO GRADE
- ROOF DRAIN (FOR CONTINUATION, SEE PLUMBING PLAN)

- CONNECT 12" STORM DRAIN TO SUBSURFACE STORAGE SYSTEM
- SOUTH SIDES OF NEW SINGLE 'D' STORM DRAIN (OVERFLOW). TOP OF CURB 61.15.

CONSTRUCTION NOTES:

SPEC. KEY

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR APPROVED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS
- CONSTRUCTION-2020 EDITION (JUNE 2020). 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQÚERQUE PUBLIC
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE
- ENGINEER AS REQUIRED ABOVE. 4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION
- 5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE TOPOGRAPHIC AND UTILITY
- SURVEY CONDUCTED BY THIS FIRM DATED 09/05/2023 AND INCLUDED AS SHEET VF-101 OF THIS PLAN SET. THAT UTILITY SURVEY AND SUBSURFACE UTILITY ENGINEERING EFFORT IS NOT ALL-INCLUSIVE AND MAY NOT REPRESENT UTILITIES/INFRASTRUCTURE THAT HAVE BEEN ABANDONED-IN-PLACE, WERE INACCESSIBLE, OR OTHERWISE UNDETECTABLE DUE TO UNFORESEEN AND UNCONTROLLABLE SITE AND/OR UTILITY CONDITIONS. FURTHER, THAT UTILITY INVESTIGATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE PROPERTY OWNER, DEVELOPER, OR CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING
- CONTRACTOR SHALL COMPLY WITH STATE STATUES, NEW MEXICO EXCAVATION LAWS (NM811), MUNICIPAL AND LOCAL ORDINANCES, SITE SPECIFIC RULES AND REGULATIONS, IF ANY, PÉRTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
- 6. ALL UTILITIES WITHIN THE PROJECT LIMITS THAT ARE RENDERED OBSOLETE AND / OR UNUSED AS A RESULT OF THIS PROJECT SHALL NOT BE ABANDONED IN PLACE, BUT SHALL INSTEAD BE COMPLETELY REMOVED WITHIN THE PROJECT AREA AND CAPPED AT THE PROJECT LIMITS, UNLESS OTHERWISE NOTED.

UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE

- 7. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
- 8. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.
- 9. ALL KNOWN EXISTING UTILITIES ARE SHOWN HEREON FOR REFERENCE AND INFORMATION. ALTHOUGH REMOVALS OF CONFLICTING UTILITIES MAY BE ACCOUNTED FOR BY OTHER SHEETS AND OTHER DISCIPLINES, THEY ARE SHOWN HEREON TO HELP PREVENT INADVERTENT DAMAGE AND INFORM THE GENERAL CONTRACTOR OF UTILITIES THAT MAY NOT HAVE BEEN OTHERWISE ACCOUNTED FOR.

DESIGN GRADING LEGEND:

INV	INVERT
TA	TOP OF ASPHALT PAVEMENT
TC	TOP OF CURB
TG	TOP OF GRATE
+ 20.05	EXISTING SPOT ELEVATION
• 17.25	PROPOSED SPOT ELEVATION
	EXISTING FLOWLINE
— · · ·	PROPOSED FLOWLINE
— — -4962- — —	EXISTING CONTOUR
20	PROPOSED CONTOUR
<	EXISTING DIRECTION OF FLOW
←	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
	HIGH POINT / DIVIDE
<u> </u>	PROPOSED CHECK VALVE
SD	DDODOCED CTORM DDAIN
	PROPOSED STORM DRAIN
•	PROPOSED INFILTRATION PIT
	PROPOSED STORM INLET

Planning Department **Development Review Services** HYDROLOGY SECTION 4/9/2025 anth Mars HydroTrans # J13D218 THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUCT

ISSUE DATE 7011.95 CITY OF ALBUQUERQUE **BRILLANTE! EARLY** RMKM PROJECT NO. LEARNING CENTER 2301 - 7011.95 PROJECT MANAGER G.M. 1005-B 18th St NW MODELED BY ALBUQUERQUE, NM 87104 J.Y.R.

SHEET TITLE 2023.057. **GRADING PLAN**

> **DESIGN PHASE** DOCUMENTS SHEET NUMBER

100% CONSTRUCTION

CG-101



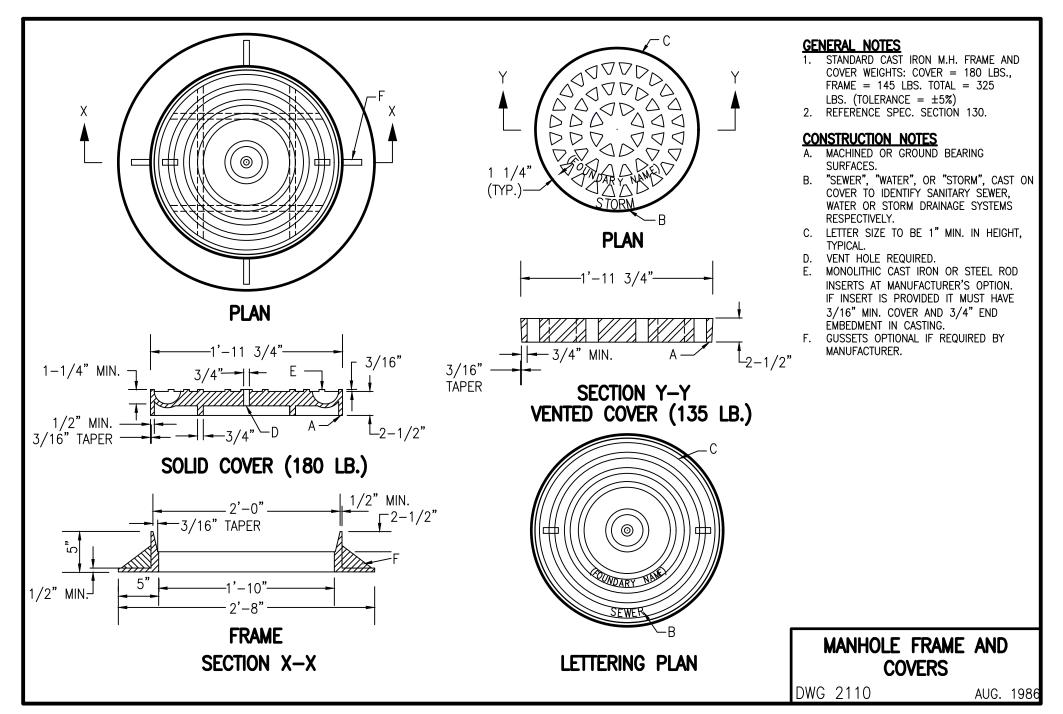
REFERENCED HEREON AND ARE NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES. HIGH THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS **MESA** a Bowman company 11184, DATED 09/05/2023 (2022.066.2) AND THE PLAT OF LOTS 1-B-1 AND 1-B-2 FREEWAY-OLDTOWN, LIMITED RECORDED 3/11/24. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE 6010-B Midway Park Blvd. NE, Albuquerque, NM 87109 TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING P:505.345.4250 **highmesacg.com | bowman.com**

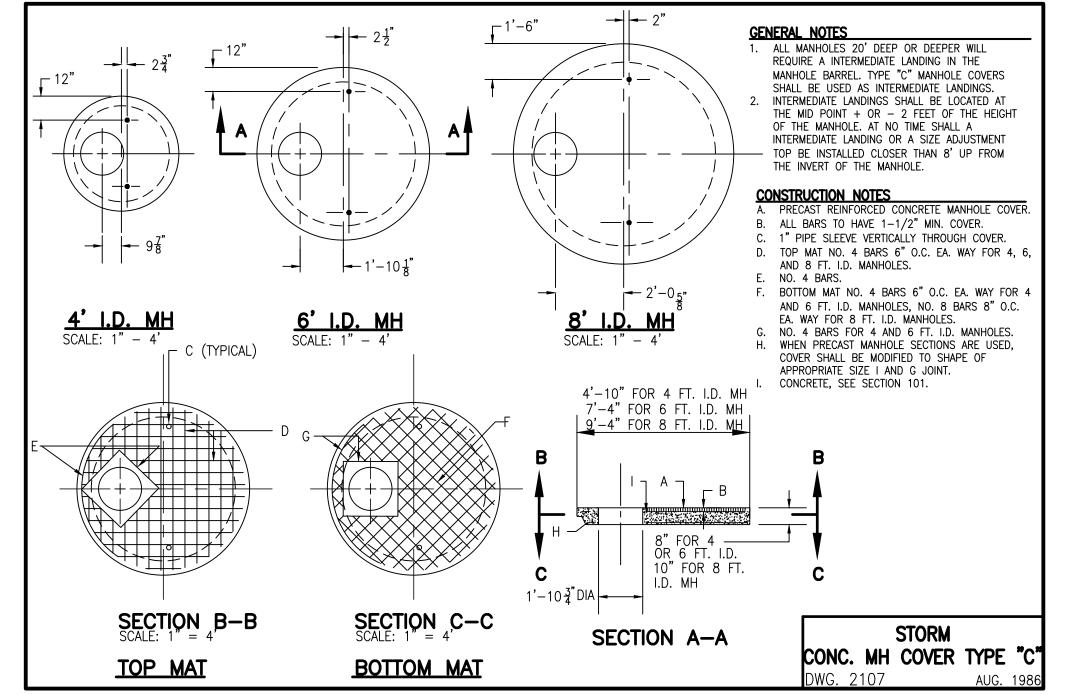
THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. APPARENT

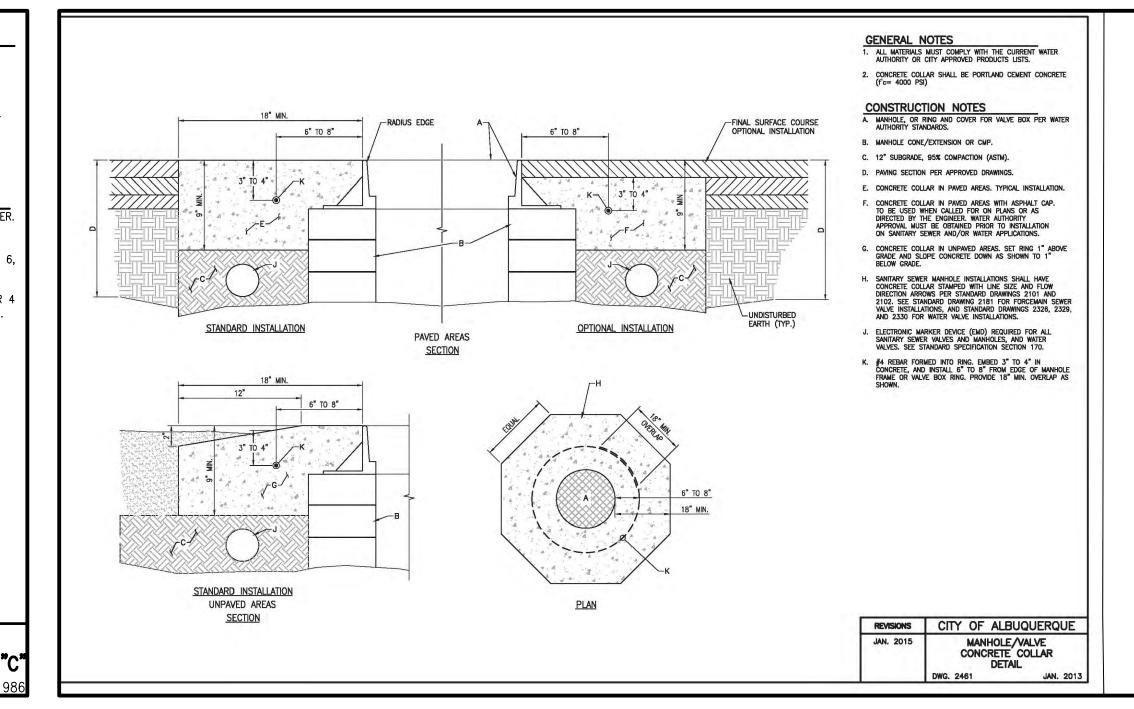
PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES AS SHOWN

ARE DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY MAPS, OR DEEDS

GROUP, NMPS NO. 11184, DATED 09/05/2023 (2022.066.2).



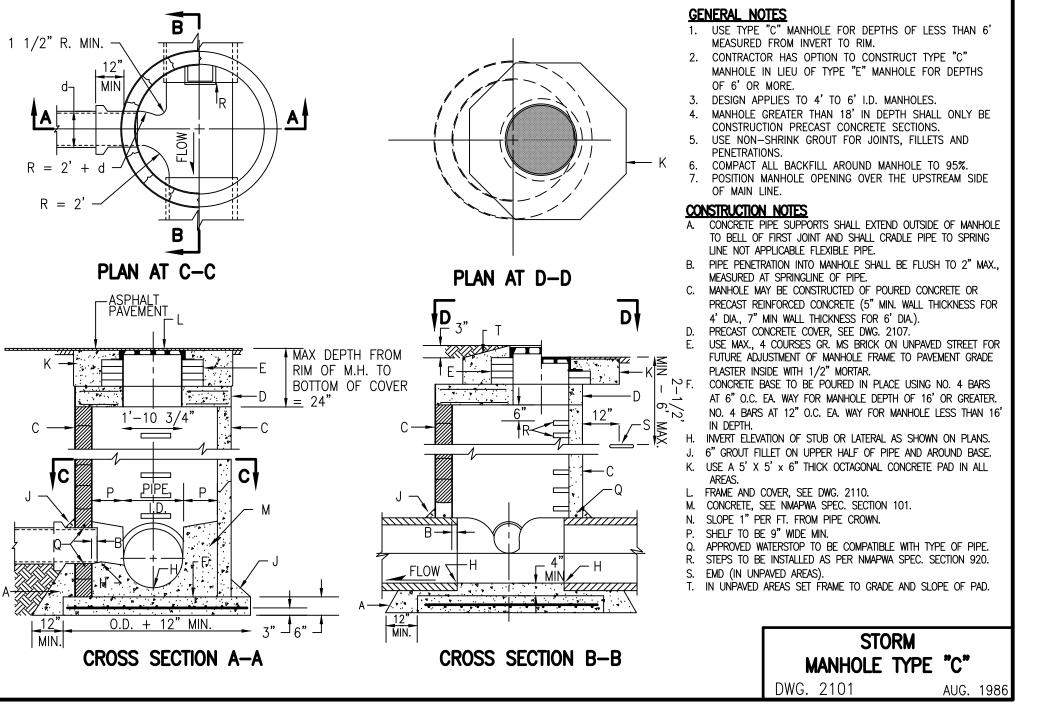


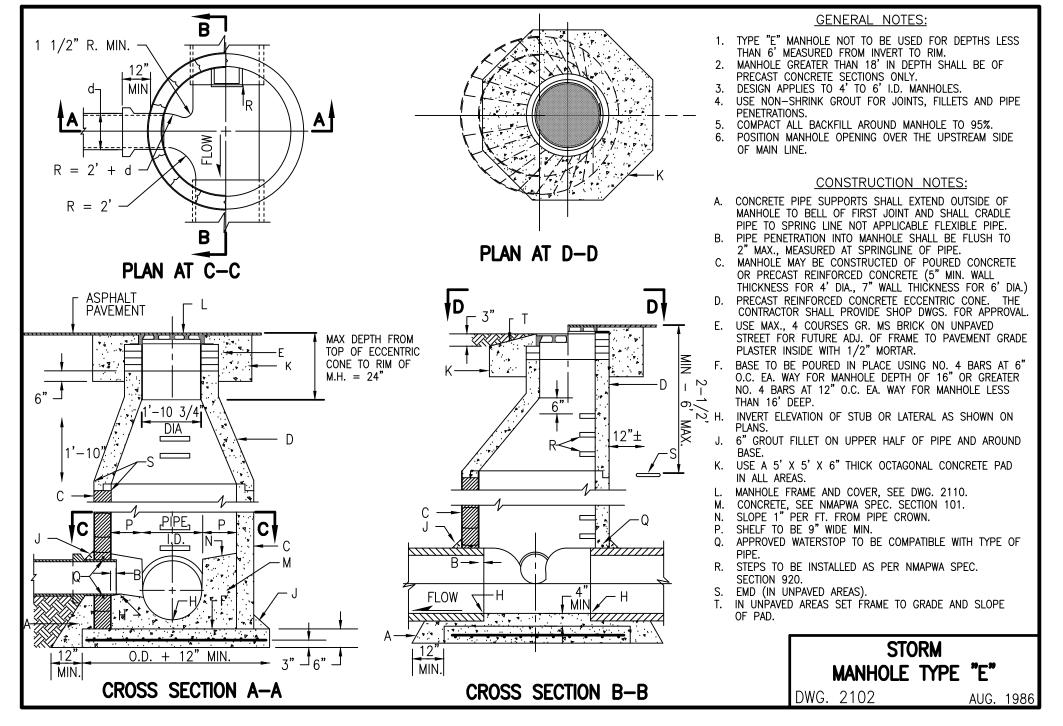


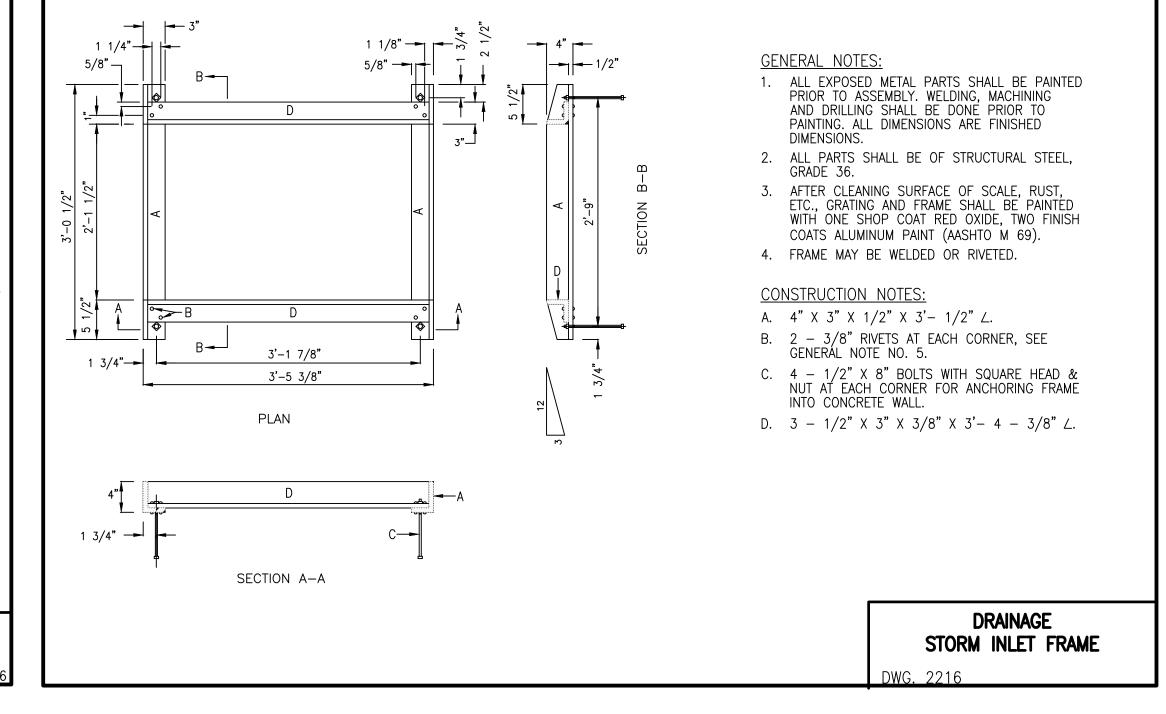


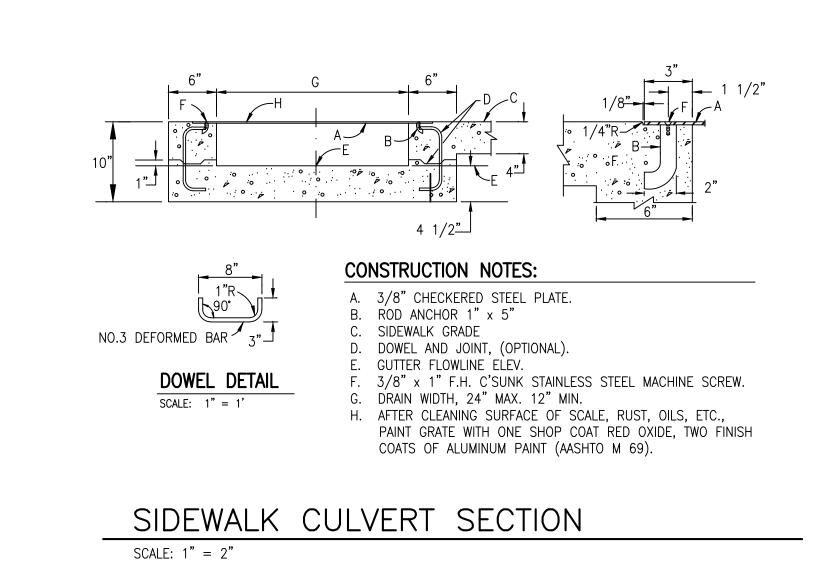
SPEC. KEY DESCRIPTION

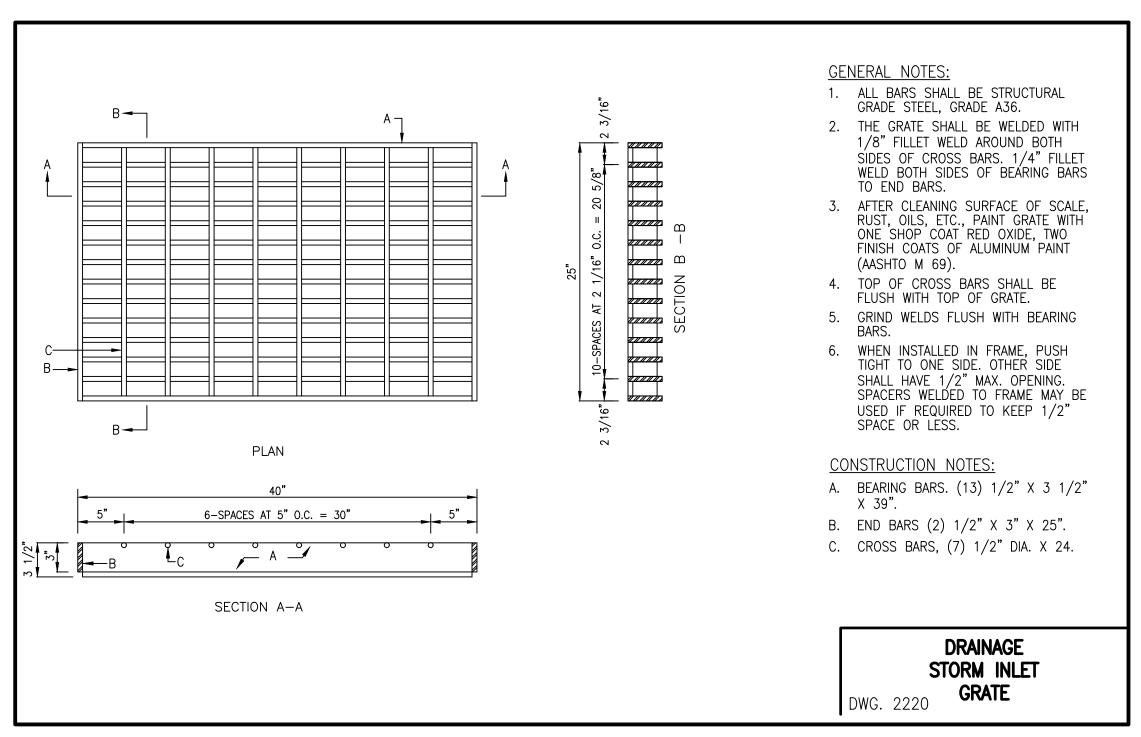
> City of Albuquerque **Planning Department Development Review Services** HYDROLOGY SECTION **APPROVED** 4/9/2025 anth Mars J13D218 HydroTrans # THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PREWIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT BE CONSTRUCTED STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHAINOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.











NO. ISSUE DATE 7011.95 CITY OF ALBUQUERQUE

BRILLANTE! EARLY LEARNING CENTER

PROJECT MANAGER G.M.

J.Y.R.

MODELED BY

RMKM PROJECT NO.

2301 - 7011.95

1005-B 18th St NW ALBUQUERQUE, NM 87104

SHEET TITLE

DRAINAGE SECTIONS AND DETAILS **DESIGN PHASE** 100% CONSTRUCTION

DOCUMENTS

SHEET NUMBER

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MESA a Bowman company 6010-B Midway Park Blvd. NE, Albuquerque, NM 87109 P:505.345.4250 **highmesacg.com | bowman.com**

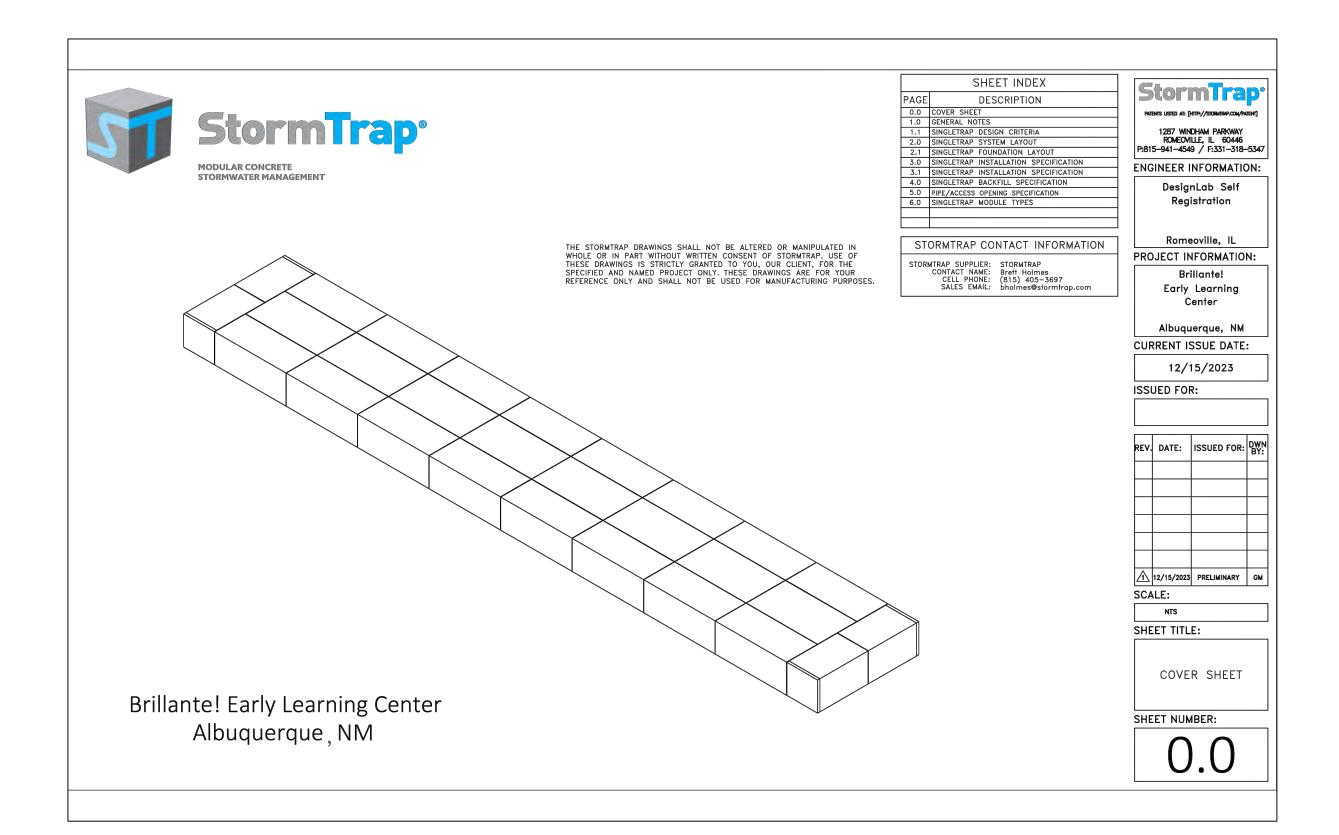
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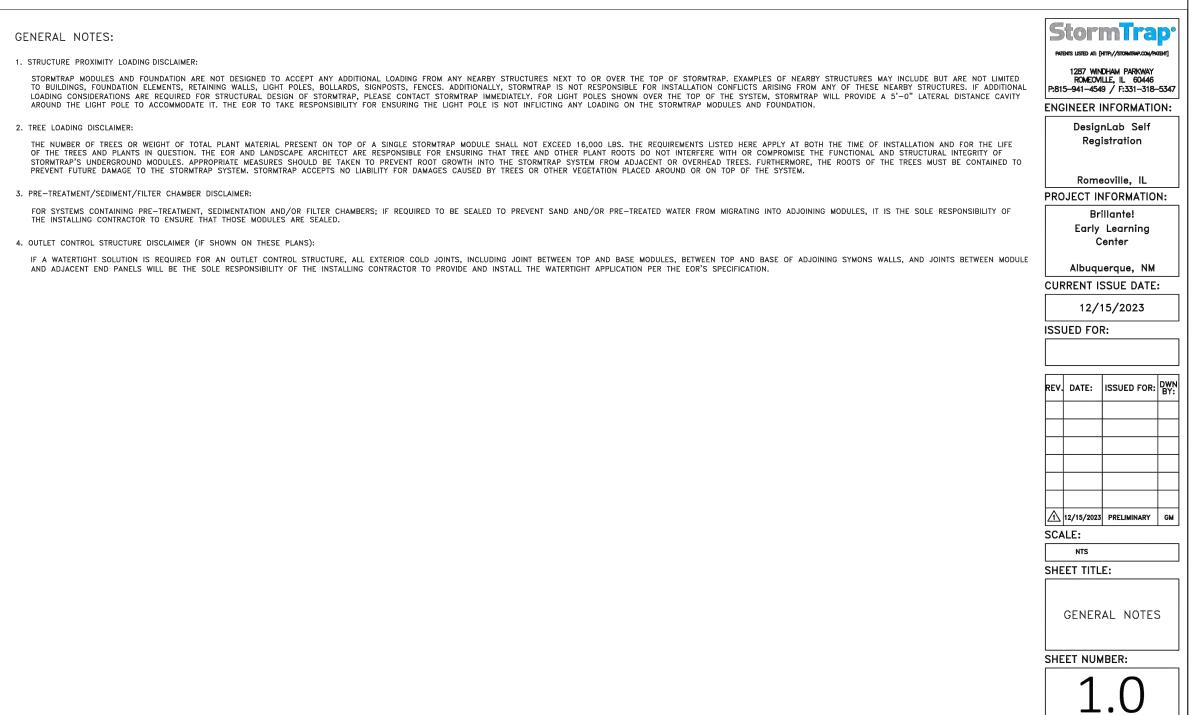
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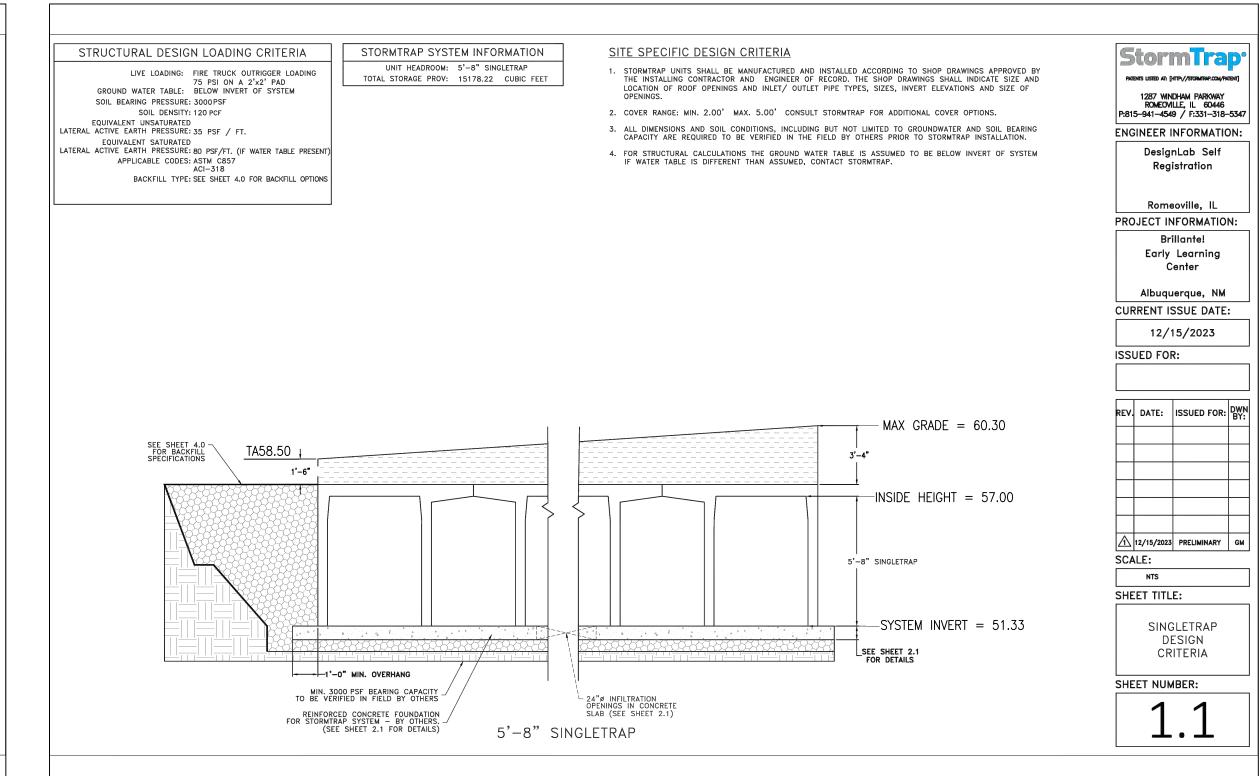


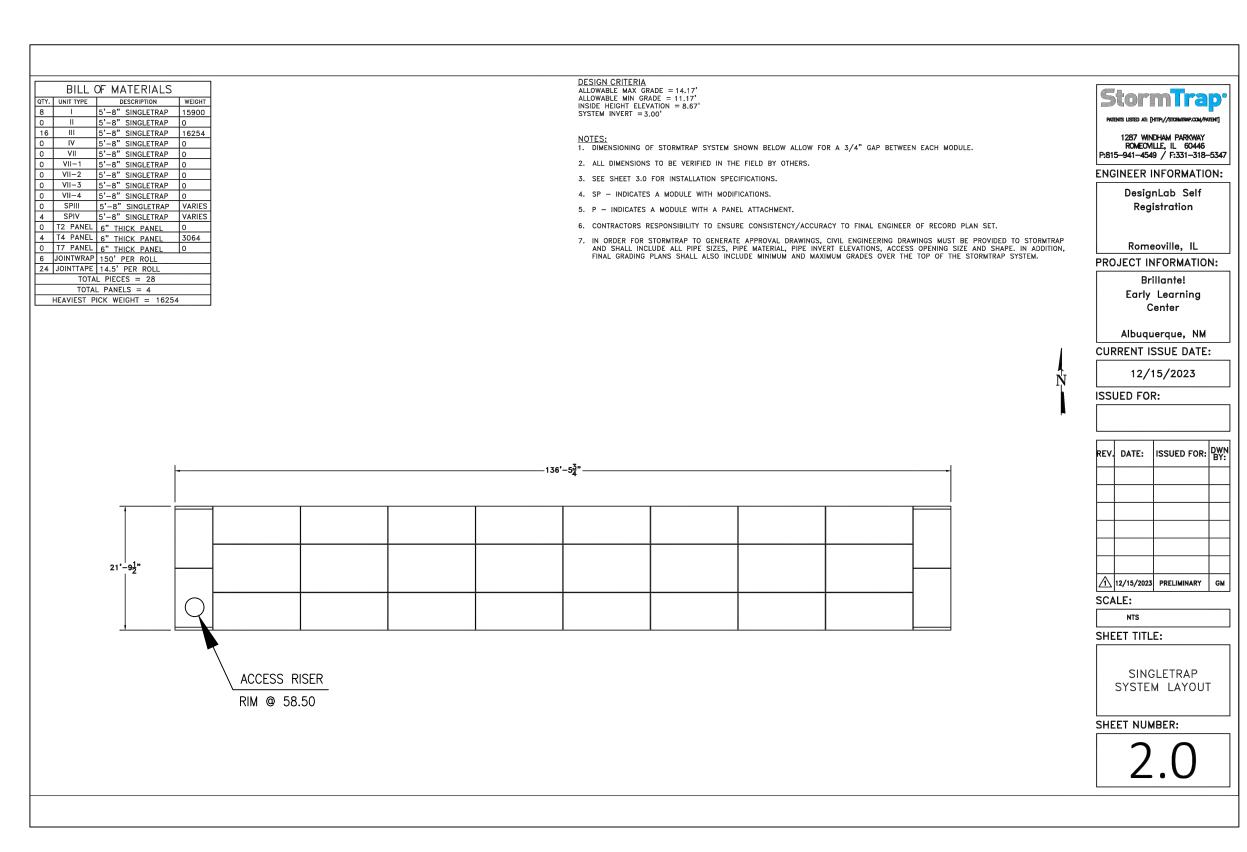
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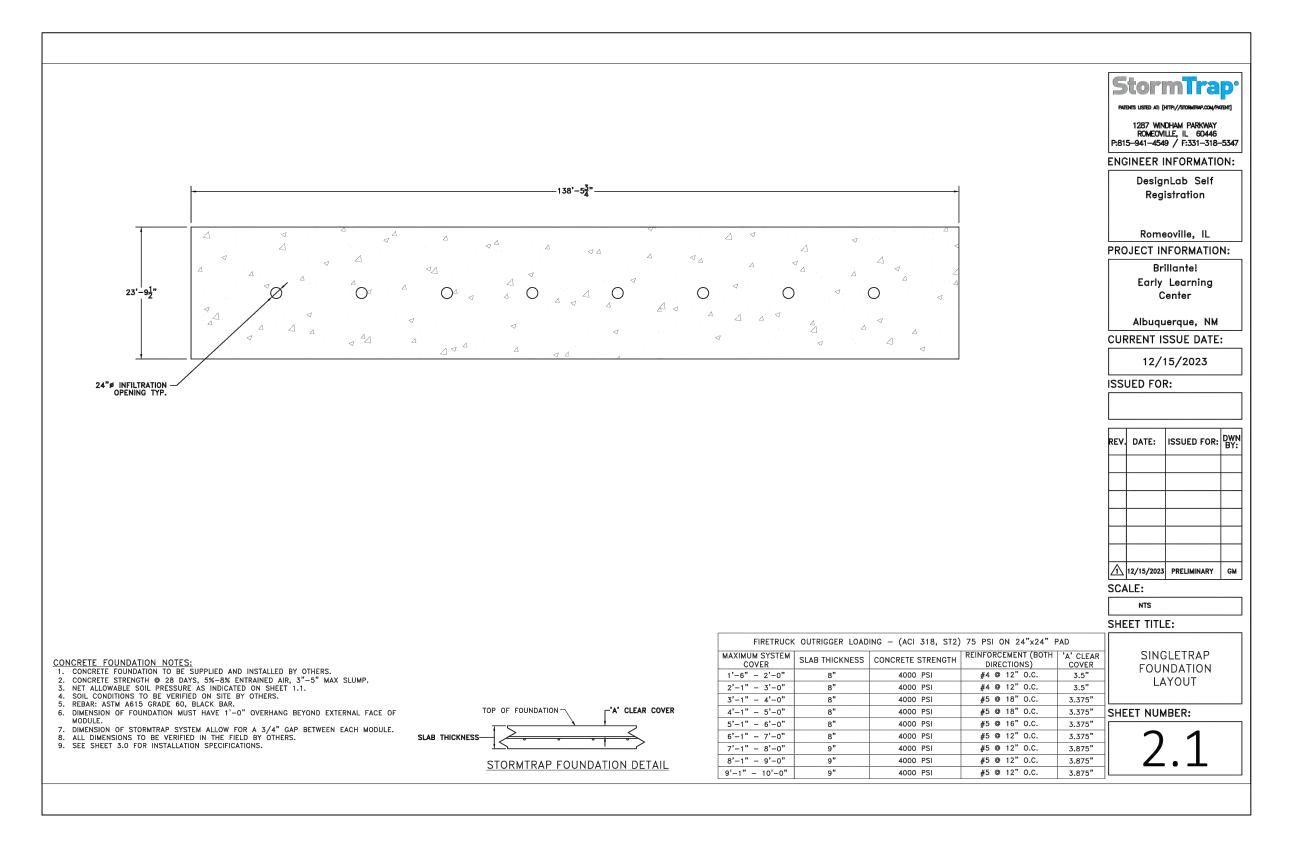
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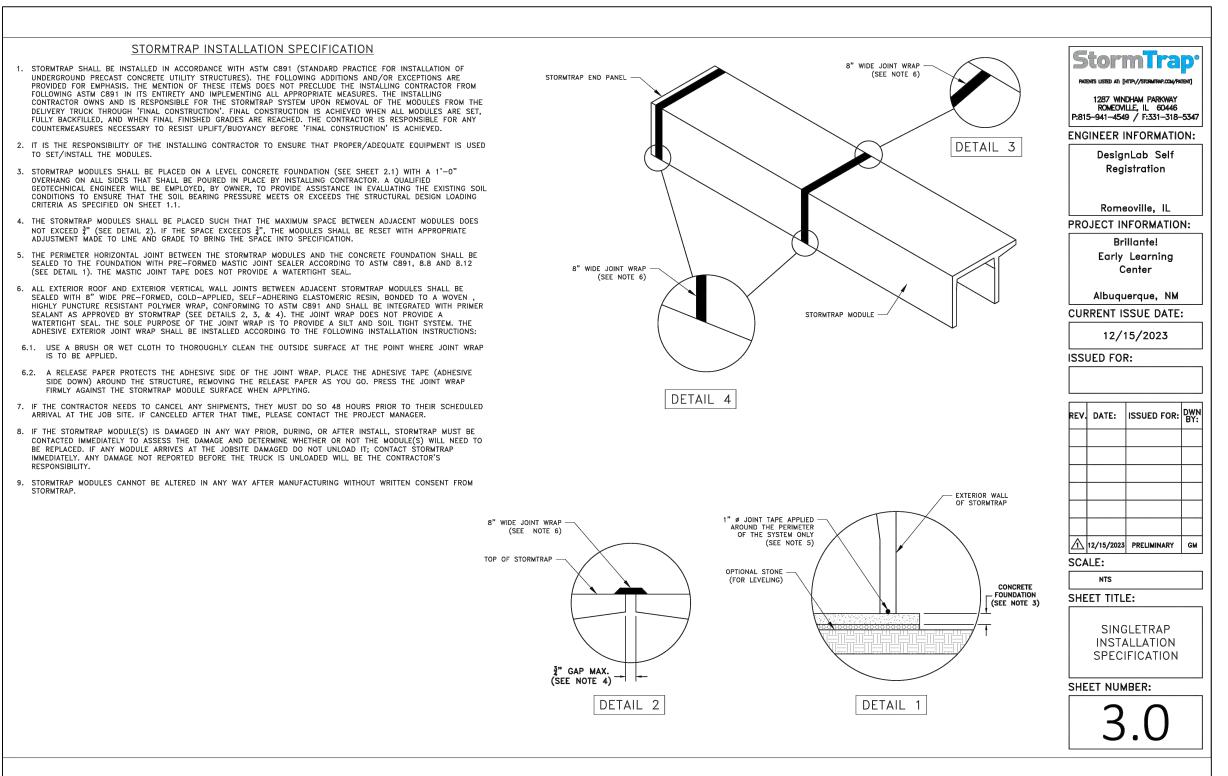


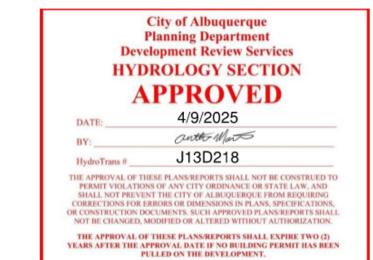












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MESA a Bowman company 6010-B Midway Park Blvd. NE, Albuquerque, NM 87109 P:505.345.4250 **highmesacg.com | bowman.com**

2023.057.1 **DESIGN PHASE** 100% CONSTRUCTION DOCUMENTS SHEET NUMBER

NO.

PROJECT

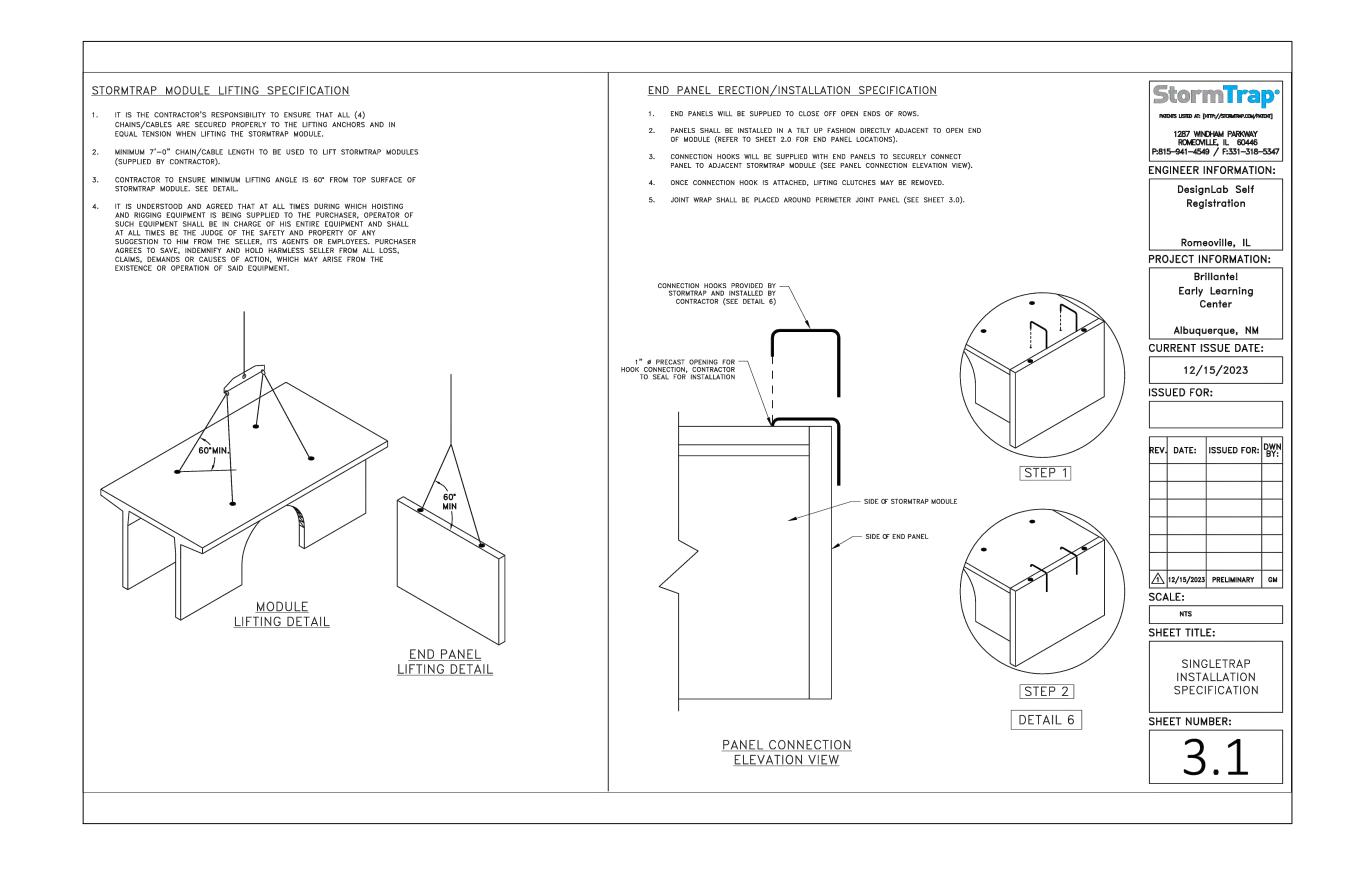
7011.95 CITY OF ALBUQUERQUE

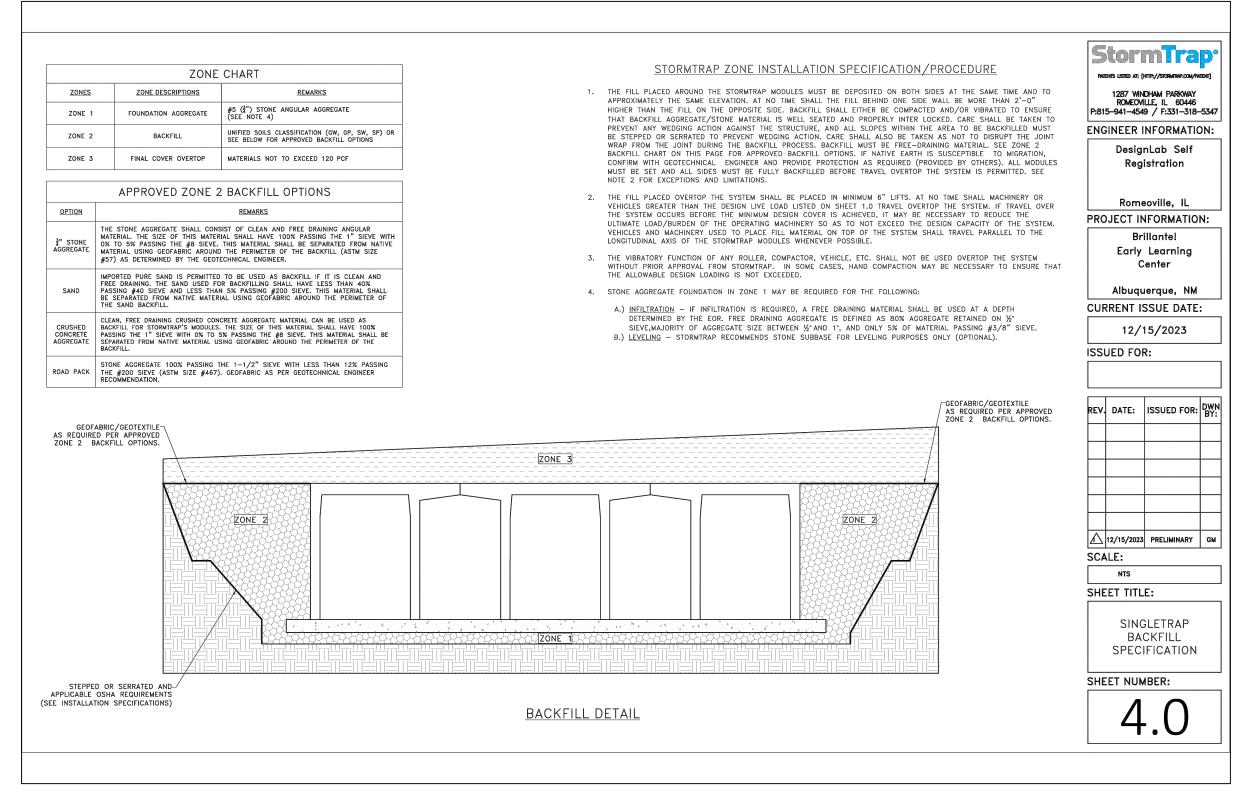
BRILLANTE! EARLY RMKM PROJECT NO. LEARNING CENTER 2301 - 7011.95 PROJECT MANAGER G.M. 1005-B 18th St NW MODELED BY ALBUQUERQUE, NM 87104 J.Y.R. SHEET TITLE STORMTRAP SECTIONS AND DETAILS

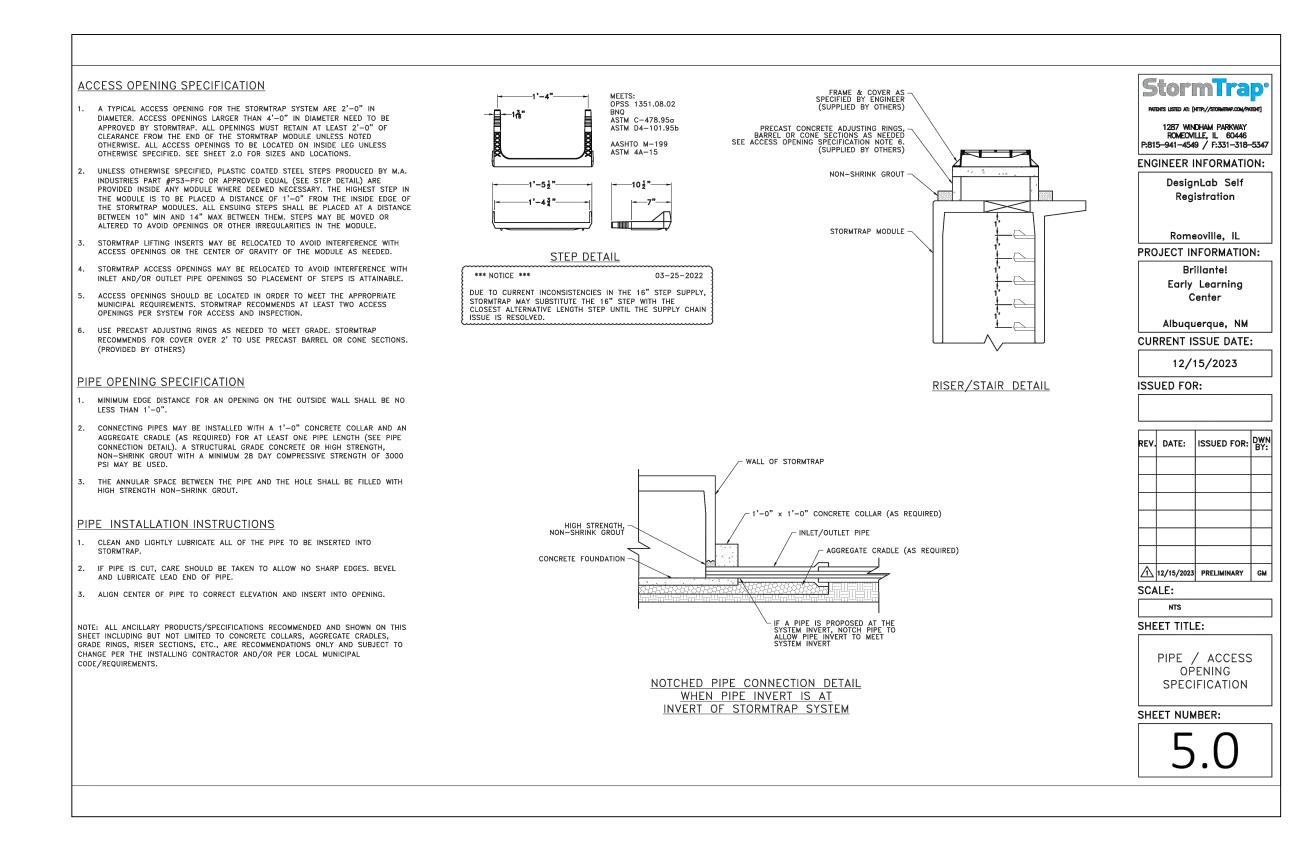
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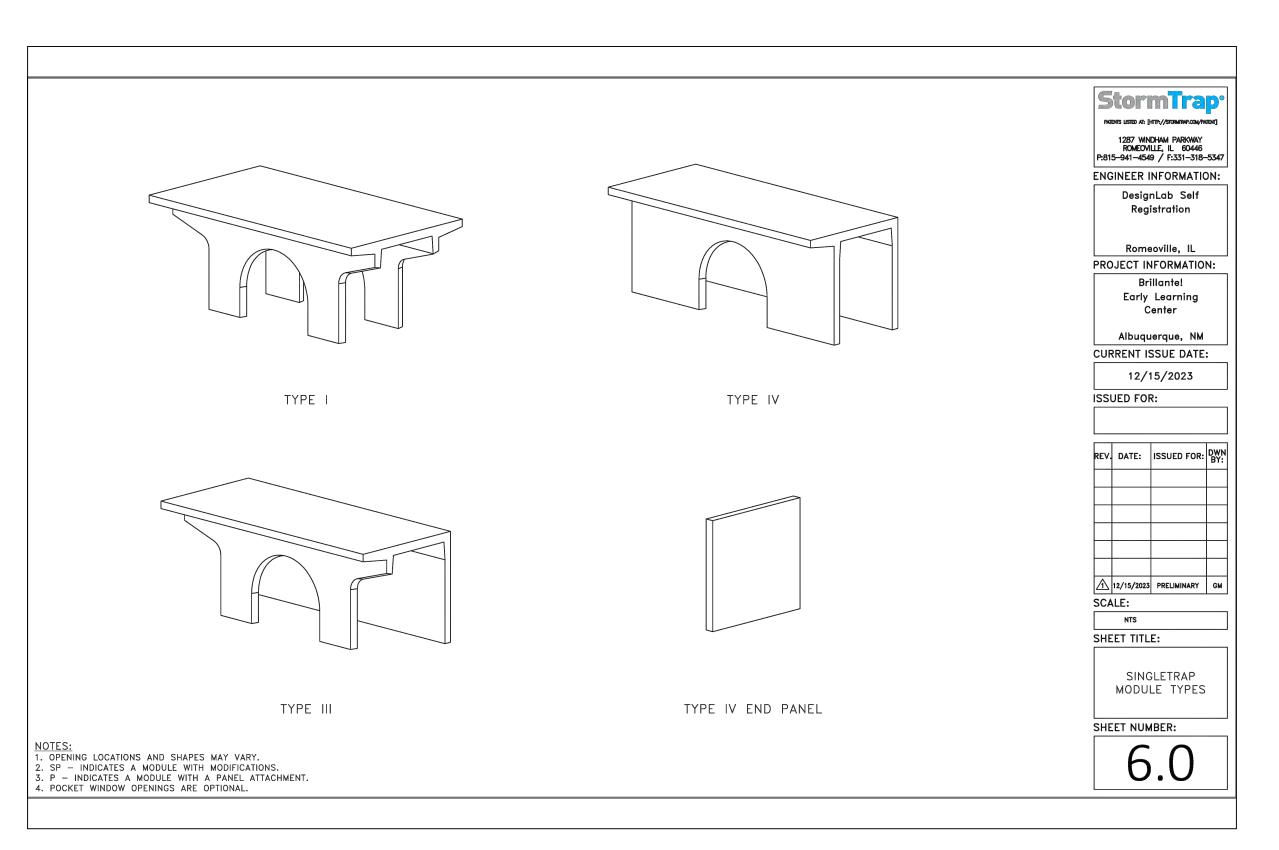
DATE

CG-502









City of Albuquerque **Planning Department Development Review Services** HYDROLOGY SECTION **APPROVED** 4/9/2025 anthe Mars HydroTrans # J13D218 THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

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HIGH **MESA** a Bowman company 6010-B Midway Park Blvd. NE, Albuquerque, NM 87109 P:505.345.4250 **highmesacg.com | bowman.com**

NO. ISSUE DATE PROJECT 7011.95 CITY OF ALBUQUERQUE **BRILLANTE! EARLY** RMKM PROJECT NO. LEARNING CENTER 2301 - 7011.95 PROJECT MANAGER G.M. 1005-B 18th St NW MODELED BY ALBUQUERQUE, NM 87104 J.Y.R.

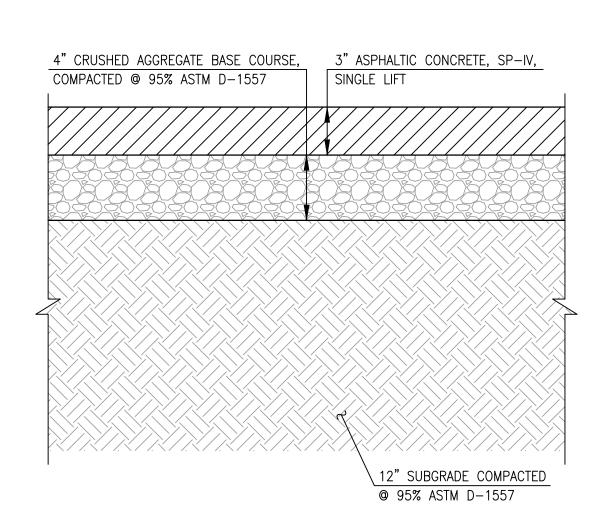
2023.057.1 STORMTRAP SECTIONS AND DETAILS DESIGN PHASE DOCUMENTS

SHEET TITLE

100% CONSTRUCTION SHEET NUMBER

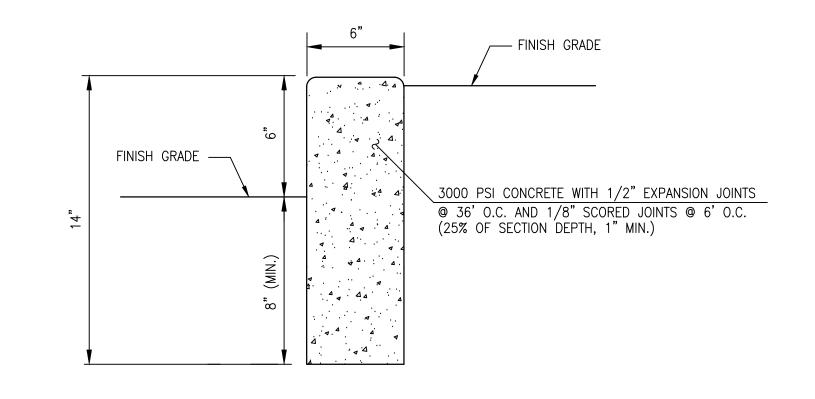
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02-28-2025



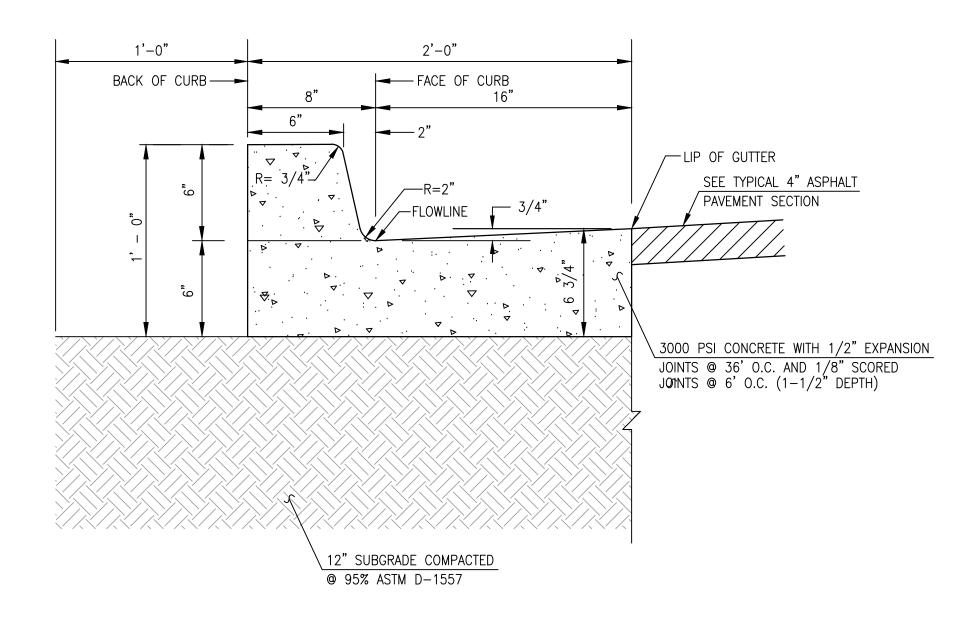
TYPICAL 3" ASPHALT PAVING SECTION

SCALE: 1" = 0'-5"



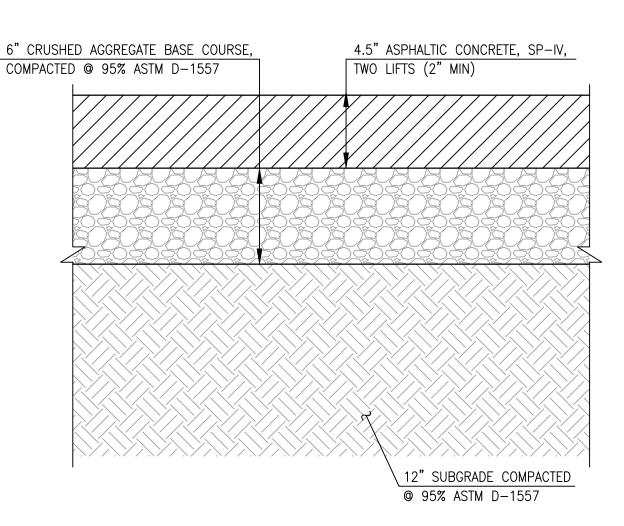
TYPICAL HEADER CURB SECTION

N.T.S.



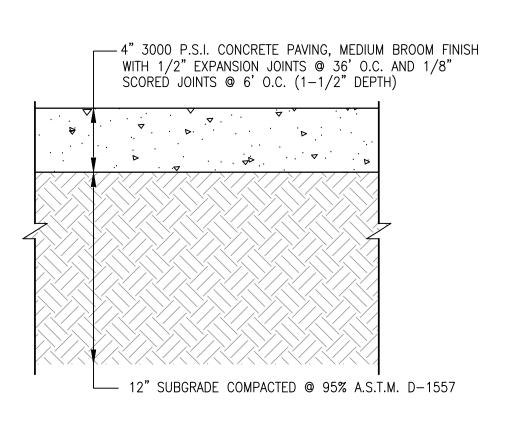
TYPICAL SIX—INCH CURB & GUTTER

SCALE: 1" = 0'-6"



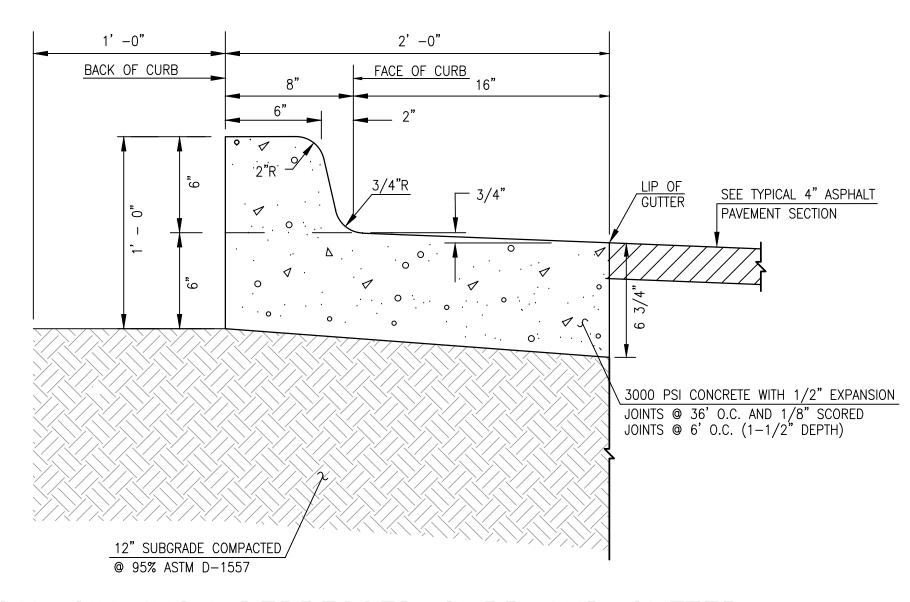
TYPICAL 4.5" ASPHALT PAVING SECTION

SCALE: 1" = 0'-5" (HEAVY DUTY AREAS)



TYPICAL CONCRETE SIDEWALK SECTION

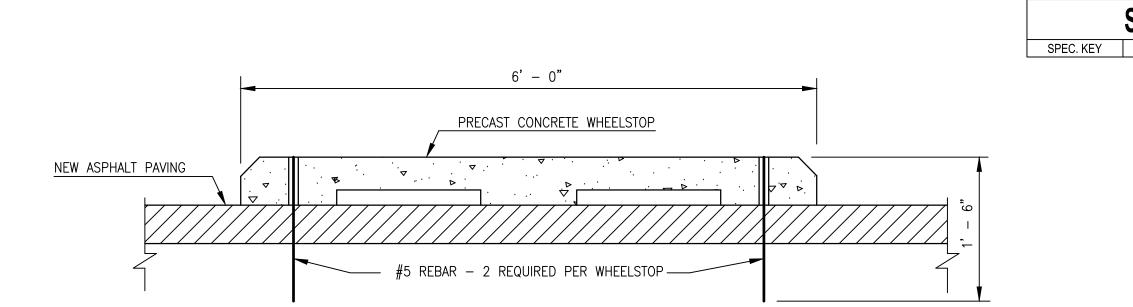
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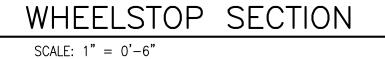


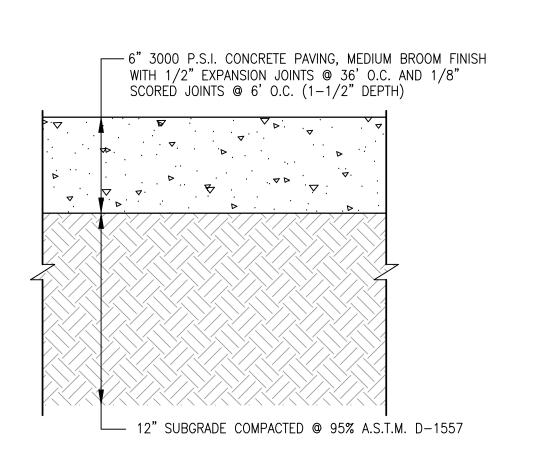
TYPICAL SIX—INCH DEPRESSED CURB AND GUTTER

SCALE: 1" = 0'-6"

NOTE: USE THIS SECTION FOR CASES WHERE PAVING SLOPES AWAY FROM FACE OF CURB

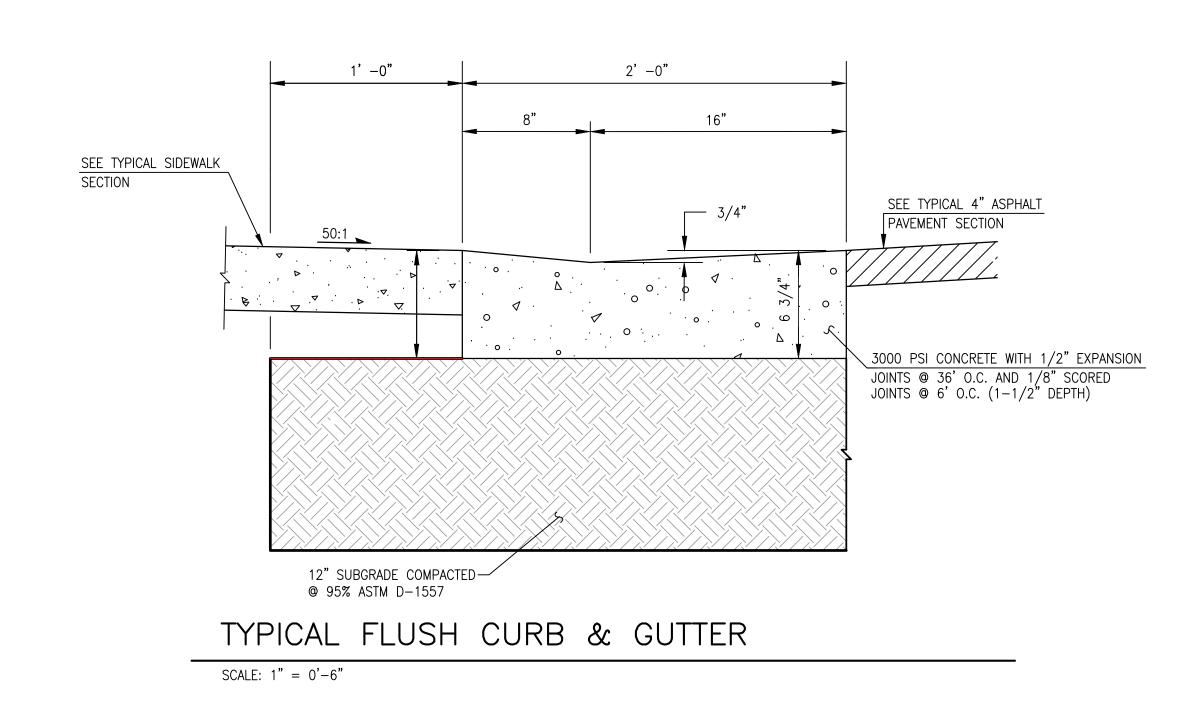






TYPICAL CONCRETE PAVEMENT SECTION

SCALE: 1" = 0'-6" (HEAVY DUTY)



PROJECT
7011.95 CITY OF ALBUQUERQUE
BRILLANTE! EARLY
LEARNING CENTER

PROJECT NO.
2301 - 7011.95

PROJECT MANAGER
G.M.

1005-B 18th St NW
ALBUQUERQUE, NM 87104

MODELED BY
J.Y.R.

ARCHITECTURE, PC

SPECIFICATION KEYED NOTES

DESCRIPTION

2023.057.1 SHEET TITLE PAVING SECTIONS AND

MESA a Bowman company

DETAILS

DESIGN PHASE
100% CONSTRUCTION
DOCUMENTS

SHEET NUMBER

CP-501

GRAEME MEANS

REPTORESSION

PROFESSION

PR

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 4/9/2025

BY: 4/9/2025

BY: J13D218

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P:505.345.4250 highmesacg.com | bowman.com