CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



July 2, 2018

Matt Satches, P.E. Bohannan Huston, Inc. 7500 Jefferson St NE Albuquerque, NM 87109

RE: Presbyterian San Pedro FSED 6400 Paseo Del Norte NE Grading and Drainage Plan Engineer's Stamp Date: 06/26/18 Hydrology File: D18D056

Dear Mr. Satches:

PO Box 1293

Based upon the information provided in your submittal received 06/27/2018, the Grading and Drainage Plan **is not** approved for Building Permit and Grading Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

NM 87103

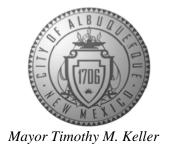
www.cabq.gov

- 1. The site currently shows more than 1 acre of disturbance is being proposed. An Erosion and Sediment Control Plan is required and has to be submitted to the storm water quality engineer (Curtis Cherne, PE, ccherne@cabq.gov). Hydrology's approval for Grading or Building Permit will not be given until the submittal of the ESC Plan.
- 2. Per the DPM Chapter 22 Section 7, 24"x36" is currently the City's standard. This applies to all site plans, Grading & Drainage Plans, Traffic Circulation Plans, DRC Plans etc. Please resubmit with this plan size.
- 3. Please provide the benchmark information for the survey contour information provided.
- 4. Please provide the weir calculations for the curb cuts and concrete rundown.
- 5. Please label the storm sewer within the existing drainage easement as "public storm drain to be constructed in the work order plans".
- 6. How is the bend connection from the private 24" HDPE to the public 24" storm drain being handled? If needed please provide a detail.
- 7. Is inlet IN2 part of the work order since it is within the existing drainage easement? Please provide a detail of how you are installing this inlet over the existing 84" storm drain. Is this going to be a manhole with an inlet top?

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director

Sincerely,



If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov .

Renée C. Brissette Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 3/2018)

Project Title:	Building Pe	ermit #: Hydrology File #:
DRB#:	EPC#:	Work Order#:
Legal Description:		
Applicant:		Contact:
Address:		
		E-mail:
Other Contact:		Contact:
Address:		
		E-mail:
Check all that Apply:		IS THIS A RESUBMITTAL?: Yes No
DEPARTMENT: HYDROLOGY/ DRAINAC TRAFFIC/ TRANSPORTA TYPE OF SUBMITTAL: ENGINEER/ARCHITECT OF PAD CERTIFICATION CONCEPTUAL G & D PLACE OF THE PARTY OF THE PART	TION CERTIFICATION IN IN IENT PERMIT APPLIC E LAYOUT (TCL) (TIS)	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT
DATE SUBMITTED:	D.,,	OTHER (SPECIFY)

FEE PAID:

ARCHITECTURE / DESIGN / INSPIRATION

ARCHITECT

PERMIT

REVISIONS

DRAWING NAME

DRAINAGE **MANAGEMENT** PLAN

6/26/2018

DRAWN BY REVIEWED BY DATE PROJECT NO. 18-0005.001

SHEET NO.

NEW MEXICO STATE SANTA MONICA

FEMA FIRM MAP # 35001C0137H

VICINITY MAP-C-18

DRAINAGE MANAGEMENT NARRATIVE

BACKGROUND:

BOTH REPORTS WERE USED IN THE ANALYSIS OF THIS SITE

THE SITE IS LOCATED IN THE CITY OF ALBUQUERQUE, THEREFORE, THE DEVELOPMENT PROCESS MANUAL SECTION 22.2 WAS USED TO ANALYZE THE SITE'S PROPOSED DRAINAGE. PRECIPITATION 22.2 OF THE DPM.

EXISTING CONDITIONS:

CURRENTLY THE SITE IS UNDEVELOPED AND SLOPES AT AN APPROXIMATE GRADE OF 3.0% FROM EAST TO WEST. THE ADJACENT LOT TO THE EAST DISCHARGES ONTO THE SITE AS WELL. THE PROPERTY AND THE ADJACENT LOT SHEET FLOW TO THE WEST BEFORE DISCHARGING TO SAN PEDRO DRIVE WHERE IT ENTERS A 24" STORM DRAIN VIA AN INLET AT THE INTERSECTION OF SAN PEDRO DRIVE AND PALOMAS AVENUE WHICH ULTIMATELY DISCHARGES TO AN EXISTING 84" STORM DRAIN. THIS EXISTING 84" STORM DRAIN CROSSES THE NORTHWEST CORNER OF THE SITE. THIS STORM DRAIN CONVEYS RUNOFF FROM UPSTREAM DRAINAGE BASINS PRIOR TO DISCHARGING INTO THE SOUTH DOMINGO BACA ARROYO.

THE SITE IS NOT LOCATED WITHIN A DESIGNATED FEMA FLOOD ZONE (FEMA FIRM # 35001C0137H). PROPOSED CONDITIONS:

THE SITE IS SEPARATED INTO 3 OVERALL ONSITE DRAINAGE BASINS. EACH BASIN WAS DELINEATED TO DETERMINE THE FLOW CONTRIBUTING TO CURB OPENINGS, RUNDOWNS, INLETS, AND STORM

THE SITE IS DESIGNED FOR A MAJORITY OF THE SITE'S RUNOFF TO DISCHARGE INTO THE EXISTING 84" STORM DRAIN IN THE NORTHWEST CORNER OF THE SITE. PER THE PREVIOUSLY APPROVED DRAINAGE REPORTS FOR THE SITE, THIS SITE IS ALLOWED FULL DISCHARGE TO THE EXISTING 84" STORM DRAIN. DUE TO THE SITE HAVING UNRESTRICTED DISCHARGE, THE ONLY ONSITE PONDING REQUIRED IS DUE TO THE CITY OF ALBUQUERQUE'S FIRST FLUSH REQUIREMENT. SEE BELOW FOR DESCRIPTIONS ON HOW THE RUNOFF FROM EACH BASIN FLOWS:

BASIN 1 IS A MAJORITY OF THE SITE. BASIN 1 GENERALLY DRAINS FROM NORTH TO SOUTH PRIOR TO ENTERING A FIRST FLUSH POND ON THE SOUTH AND WEST SIDE OF THE SITE. THIS BASIN WAS DELINEATED TO INCLUDE TWO SUBBASINS TO SIZE THE STORM DRAIN ASSOCIATED WITH THE ROOF DRAINAGE AND THE CONCRETE RUNDOWN THAT CONVEYS RUNOFF FROM THE PARKING LOT. THE RUNOFF FROM BASIN 1A SURFACE FLOWS TO THE SOUTHWEST CORNER OF THE PARKING LOT PRIOR TO ENTERING THE FIRST FLUSH POND. THE RUNOFF FROM BASIN 1B DISCHARGES BELOW GRADE TO A STORM DRAIN SYSTEM THAT OUTFALLS INTO THE SAME FIRST FLUSH POND. AN INLET WITHIN THE POND IS SIZED TO CONVEY THE RUNOFF FROM BASIN 1. SEE DATA TABLE BELOW FOR HYDRAULIC

BASIN 2 IS A SMALLER AREA ON THE NORTH SIDE OF THE SITE. THIS BASIN INCLUDES THE NORTHERN PORTION OF THE NEW BUILDING. ROOF DRAINAGE ENTERS VARIOUS CONCRETE RIBBON CHANNELS PRIOR TO DISCHARGING TO THE NORTHERN FIRST FLUSH POND. THIS FIRST FLUSH POND WAS SIZED FOR THE IMPERVIOUS AREA WITHIN THE BASIN. THE POND WILL OVERFLOW TO THE WEST VIA A LANDSCAPED SWALE. A NEW MANHOLE WILL BE CONSTRUCTED VIA THE PUBLIC WORK ORDER OVER THE TOP OF THE EXISTING 84" STORM DRAIN. THIS MANHOLE WILL HAVE A SLOTTED GRATE INSTALLED INSTEAD OF A MANHOLE COVER. THE RUNOFF FROM THE POND OVERFLOW WILL ENTER

BASIN 3 IS THE AREA TO THE NORTH, WEST, AND SOUTH EDGES OF THE SITE. DUE TO THE SITE'S RESTRAINTS, THIS RUNOFF WILL DISCHARGE DIRECTLY TO THE RIGHT OF WAY. THIS IS CONSISTENT WITH THE SITE'S HISTORICAL FLOW PATH.

FIRST FLUSH POND VOLUME:

CALCULATIONS.

BASIN 1 REQUIRED = 277 CF BASIN 1 PROVIDED = 720 CF

> BASIN 2 REQUIRED = 1,627 CF BASIN 2 PROVIDED = 1,750 CF

OF THE ADJACENT TRACT.

OFFSITE CONDITIONS: THE PROPERTY TO THE EAST OF THE SITE PER THE PREVIOUSLY APPROVED PLANS IS REQUIRED TO DISCHARGE TO THE 84" STORM DRAIN TO THE NORTH OF THE SITE. A NEW STORM DRAIN WILL BE

THE PRESBYTERIAN SITE AND ADJACENT TRACT WILL BE MASS GRADED AT THE SAME TIME. WITH THIS GRADING, THE ADJACENT TRACT WILL CONSTRUCT A BERM TO CONVEY FLOW TO THE NORTHWEST CORNER OF THE SITE WHERE IT WILL ENTER THE NEW STORM DRAIN, PREVENTING OFFSITE RUNOFF ONTO THE PRESBYTERIAN SITE.

CONSTRUCTED WITHIN AN EASEMENT ON THE NORTH SIDE OF THE PRESBYTERIAN SITE FOR THE USE

CONCLUSION: THE SITE ADHERES TO THE APPROVED DRAINAGE MASTER PLAN FOR THE SITE BY FREE DISCHARGING TO THE 84" STORM DRAIN. RETENTION PONDS ARE CONSTRUCTED TO ADHERE TO THE COA FIRST FLUSH REQUIREMENT. GIVEN THE ABOVE INFORMATION, WE ARE IN CONFORMANCE WITH

LEGEND

THE CITY HYDROLOGY REQUIREMENTS AND REQUEST BUILDING PERMIT APPROVAL.

	PROPERTY LINE
<u> </u>	LIMITS OF GRADING
———— <i>5025</i> ————	EXISTING INDEX CONTOUR
——————————————————————————————————————	EXISTING INTERMEDIATE CONTOUR
5025	PROPOSED INDEX CONTOUR
5024	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED STORM DRAIN LINE
•	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLETS

DIRECTION OF FLOW

BASIN BOUNDARY

STORM DRAIN PIPE TABLE					
PIPE#	INLET/SD/BASIN	Size in.	Slope	Capacity* cfs	ACTUAL FLOW cfs
SD1	1-2 - B1B	6	1.55%	0.70	0.34
\$02	1·2 - B1B	6	4.75%	1.22	0.34
SD3	SD-1, SD-2	-2	1.55%	4.44	0.67
S:04	31A. B1B	24	2.50%	35.77	7.98
Capacity Based on Manning's Ec w/ N=3.013					

Concrete Rundown									
undown #	Basin ID	Rundown Type	Actual Flow (Q100)	Min Weir** Length ft	Weir Opening Width ft	Channel Height ft	Channel Width ft	Minimum Slope	Capacity* CFS
R1	B1A	Rectang	7.3	8.00	8.00	0.50	2.00	33.33%	31.73
Weir Eq: Q=2.65L(h^1.5) - ** Capacity Based on Manning's Eq w/ N=0.013 - *									

INLET TABLE					
in is 1	L	Basin	Actual	Arail	Capacity
ŧ	in'et Type"		Floar - cls _.	∹ंस्कः तोष्	·ck-
P.	CCASMGETMED NET	€.	7.85	2.50	137
řě	WAY-OLE A SLOTTED GRATE	32	<u>::-</u>	• 11	275

1 YACRUST KLETS BASED OWWALPACTURER VOVOGRAPHS IZ INLETS PLACED MISIMS CONCITON AND CAPACITES BASED ON LESSER OF DEPICE AND INER EQUATORS.

IS INJETS MOLLOSSON CLOSSING PAOTOR

FUTURE STORM DRAIN FOR STORM D

FF=5245.85

NORTH POND -

BASIN 2

Q₁₀₀= 2.07 CFS

BASIN 1B

SD₁

BASIN 1A Q₁₀₀= 7.31 CFS

A B C 3 disect (CFS) inches (CF

PRES SAN PECRO

Processed Developed Conditions Sasan Data Table

10% 10% 됐다. 석유

Teace season to DN Seton A2 Dreit

-1. :--

5243 5243 5245 5245

·C=ı

V_{PROVIDED}= 720 CF

V_{REQUIRED}= 277 CF

SD 3

- SOUTH POND

V_{PROVIDED}= 1,700 CF VREQUIRED = 1,627 CF

Wed, 27-Jun-2018 - 1:31:pm, Plotted by: MSATCHES P:\20190027\CDP\Plans\General\20190027_DMP01.dwg

OURGENT ONSITE BASINS

54 SIN 74

54 S**I**N 15

5-5 5 5

3-5 h :

SQ FT: AC.

1954 D45

**567 12%

GENERAL NOTES

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND
- APPROVED BY THE CONSTRUCTION OBSERVER. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- AND OBTAIN APPROVAL OF SUCH PLAN FROM THE BERNALILLO COUNTY, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS

THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN

- OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- N. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE 1 HARD COPY AND 1 ELECTRONIC COPY OF THE EPA STORM WATER POLLUTION PREVENTION PLAN ALONG WITH THE APPROPRIATE SUBMITTAL FEE TO CITY OF ALBUQUERQUE TWO WEEKS PRIOR TO THE START OF SITE DISTURBANCE.

GRADING NOTES

GEOTEXTILE— NON-WOVEN

FILTER FABRIC

OF 95% MAXIMUM DENSITY

- A. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- B. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- C. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION." ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS (FIRST PRIORITY), AND/OR THE ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- D. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN
- E. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- F. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- G. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- H. PAD ELEVATION SHALL BE $\pm/-$ 0.05' FROM BUILDING PLAN ELEVATION.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

4'X4' OR WIDTH PER PLA

TYPICAL RIP RAP BLANKET

1' CURB TRANSITION

1' CURB TRANSITION-

WIDTH PER PLAN

CURB OPENING

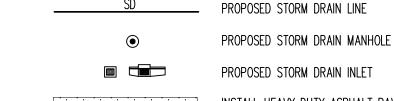
⟨X⟩ KEYED NOTES

- 1. INSTALL STORM DRAIN PIPE, SEE PLAN FOR SIZE & SLOPE.
- 2. CONSTRUCT SINGLE TYPE "D" INLET PER COA STD DWG 2206.
- 3. MITER PIPE TO SLOPE OF POND.
- 4. INSTALL RIP RAP BLANKET PER DETAIL B5/C-100. 5. CONSTRUCT CURB OPENING PER DETAIL A5/C-100
- 6. INSTALL CONCRETE RUNDOWN PER DETAIL A6/C-100
- 7. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
- 8. INSTALL PRE-MANUFACTURED STORM DRAIN FITTING.
- 9. SEE CITY OF ALBUQUERQUE PUBLIC WORK ORDER FOR CONTINUATION. CONTRACTOR TO COORDINATE WITH PUBLIC WORK ORDER CONTRACTOR.
- 10. INSTALL MANHOLE WITH SLOTTED GRATE PER CITY OF ALBUQUERQUE PUBLIC WORK ORDER.
- 11. INSTALL CONCRETE RUNDOWN PER DETAIL A6/C-100 WITHOUT TAPERED FLARE.
- 12. INSTALL CONCRETE RETAINING WALL. SEE STRUCTURAL PLAN FOR DETAILS.
- 13. APPROXIMATE LOCATION OF RIP RAP SWALE, SEE LANDSCAPE PLAN FOR DETAILS.
- 14. TRANSITION CURB FROM FLUSH TO 6" CURB.
- 15. CONNECT SIDEWALK TO EXISTING PUBLIC SIDEWALK.
- 16. INSTALL CONCRETE VALLEY GUTTER.
- 17. STORM DRAIN TO BE CONSTRUCTED FOR USE BY ADJACENT TRACT.

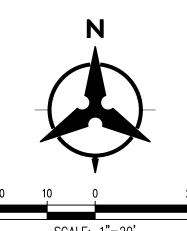


€ 65.23	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TS=TOP OF SIDEWALK, TA=TOP OF ASPHALT
	EX=EXISTING, FG=FINISHED GRADE TG=TOP OF GRATE, INV=INVERT FGH=FINISHED GRADE HIGH FGL=FINISHED GRADE LOW

S=2.0%	PROPOSED DIRECTION OF FLOW
~~~~	WATER BLOCK / RIDGE OR HIGH
	PROPOSED RETAINING WALL
	PROPOSED INDEX CONTOURS
	PROPOSED INTER CONTOURS
	PROPOSED CURB & GUTTER



INSTALL HEAVY DUTY ASPHALT PAVEMENT SEE PAVEMENT SECTION PER DETAIL A4, THIS SHEET INSTALL LIGHT DUTY ASPHALT PAVEMENT SEE PAVEMENT SECTION PER DETAIL A4, THIS SHEET



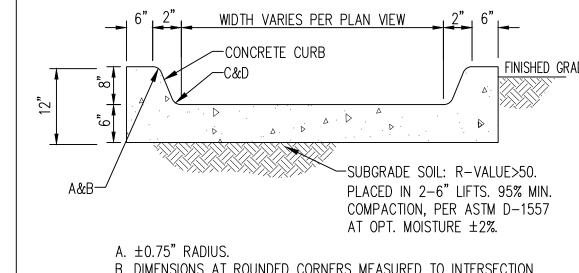
- COORDINATE COLOR WITH

LANDSCAPE PLAN

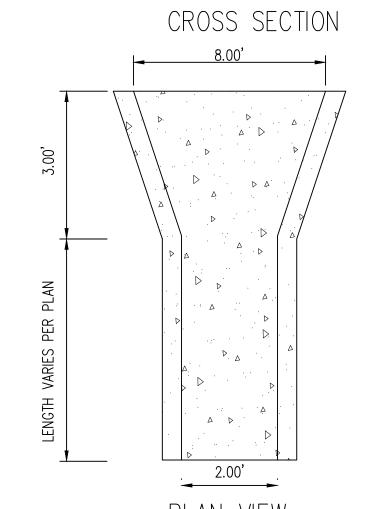
12" THICK PLAIN RIP-RAP,

D₅₀=6" PER COA STD SPEC

SECTION 109



B. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES. C. ±2" RADIUS. D. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.



A6 CONCRETE RUNDOWN

NOT TO SCALE A5 TYPICAL CURB OPENING

NOT TO SCALE

PLAN VIEW

PERICH SABATINI

ARCHITECTURE / DESIGN / INSPIRATION

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG

ARCHITECT

ENGINEER

PROJECT

ISSUED FOR CONSTRUCTION/ **PERMIT**

REVISIONS <u>/1</u> 6-26-2018 ADD001

> **DRAWN BY REVIEWED BY** MS DATE 6/26/2018 PROJECT NO. 18-0005.001 DRAWING NAME

GRADING & DRAINAGE

PLAN

SHEET NO. C-100

Wed, 27-Jun-2018 - 1:30:pm, Plotted by: MSATCHES P:\20190027\CDP\Plans\General\20190027_GP01.dwg