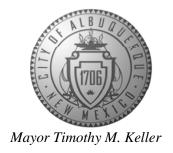
CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



November 29, 2018

Glenn Broughton PE Bohannan Huston, Inc. 7500 Jefferson St NE Albuquerque, NM 87109

RE: **Oso Bio Syringe Line** 4401 Alexander Blvd NE Grading and Drainage Plan for Building Permit Engineer's Stamp Date 11/29/2018 Approved Hydrology File: F16D003B1

Dear Mr. Broughton,

PO Box 1293

Based on the submittal received on 11/29/2018 the above-referenced Grading Plan and Drainage Plan is approved for Building Permit and SO-19.

Prior to Certificate of Occupancy (For Information):

Albuquerque

1. Engineer's Certification, per the DPM Chapter 22.7: Engineer's Certification Checklist For Non-Subdivision is required. The Engineer's Certification must be placed on the approved Grading and Drainage Plan after the revised plan gets approved. It should include as-built survey information from a registered professional surveyor and a certification statement from a registered professional engineer.

www.cabq.gov

NM 87103

- 2. The sidewalk culverts must be inspected and approved by storm drain maintenance (Jason Rodriguez, jtrodriguez@cabq.gov or 857-8607).
- 3. Bernalillo County Recorded Drainage Covenants (No Public Easement) are required for the stormwater control pond (one for each side of the property line). The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants. The routing and recording process for covenants can take a month or longer; Hydrology recommends beginning this process as soon as possible as to not delay approval for certificate of occupancy.

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director

Sincerely,



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

Dana M. Peterson Senior Engineer, Planning Dept. Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

DRB#:	FPC#·		
Land Daniellan	Li Cπ.		Work Order#:
Legal Description:			
City Address:			
Applicant:			Contact:
Address:			
			E-mail:
Owner:			Contact:
Address:			
			E-mail:
TYPE OF SUBMITTAL:PLAT (_	# OF LOTS)	_ RESIDENCE	DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No	
DEPARTMENT: TRAFFIC/ TRA	NSPORTATION _	HYDROLO	GY/ DRAINAGE
Check all that Apply:		түре оғ	APPROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL:		_	LDING PERMIT APPROVAL
ENGINEER/ARCHITECT CERTIFI	CATION	CER	TIFICATE OF OCCUPANCY
PAD CERTIFICATION		PRE	LIMINARY PLAT APPROVAL
CONCEPTUAL G & D PLAN		SITE	E PLAN FOR SUB'D APPROVAL
GRADING PLAN		SITE	EPLAN FOR BLDG. PERMIT APPROVAL
DRAINAGE MASTER PLAN		FINA	AL PLAT APPROVAL
DRAINAGE REPORT		SIA/	RELEASE OF FINANCIAL GUARANTEE
FLOODPLAIN DEVELOPMENT PE	ERMIT APPLIC	FOU	NDATION PERMIT APPROVAL
ELEVATION CERTIFICATE		GRA	ADING PERMIT APPROVAL
CLOMR/LOMR		SO-1	9 APPROVAL
TRAFFIC CIRCULATION LAYOU'	T (TCL)	PAV	ING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)		GRA	ADING/ PAD CERTIFICATION
OTHER (SPECIFY)		WOF	RK ORDER APPROVAL
PRE-DESIGN MEETING?		CLO	MR/LOMR
		FLO	ODPLAIN DEVELOPMENT PERMIT
		OTH	IER (SPECIFY)
DATE SUBMITTED:			
COA STAFF:		VIC SUBMITTAL REC	

COA STAFF:

FEE PAID:___



Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

November 29, 2018

Dana M. Peterson, PE Senior Engineer, Planning Department City of Albuquerque 600 2nd Street NW Albuquerque, NM 87102

Re: Oso Bio Syringe Line Grading Plan Submittal; Hydrology File F16D003B1

Dear Mr. Peterson:

Enclosed for your review is a copy of the Oso Bio Syringe Line Drainage Management Plan and Grading Plan Resubmittal. Below is a brief description of how the comments from your letter dated November 14, 2018 were addressed:

- 1. The HEC-HMS model has been updated to correct the time of concentration and to adjust pond outlet pine invert elevation and discrepancy in the pond bottom elevation. An updated model has been provided with the electronic submittal.
- 2. The proposed MWSE has been added to the plan view on sheet C1.4. This information is also shown on Section A-A.

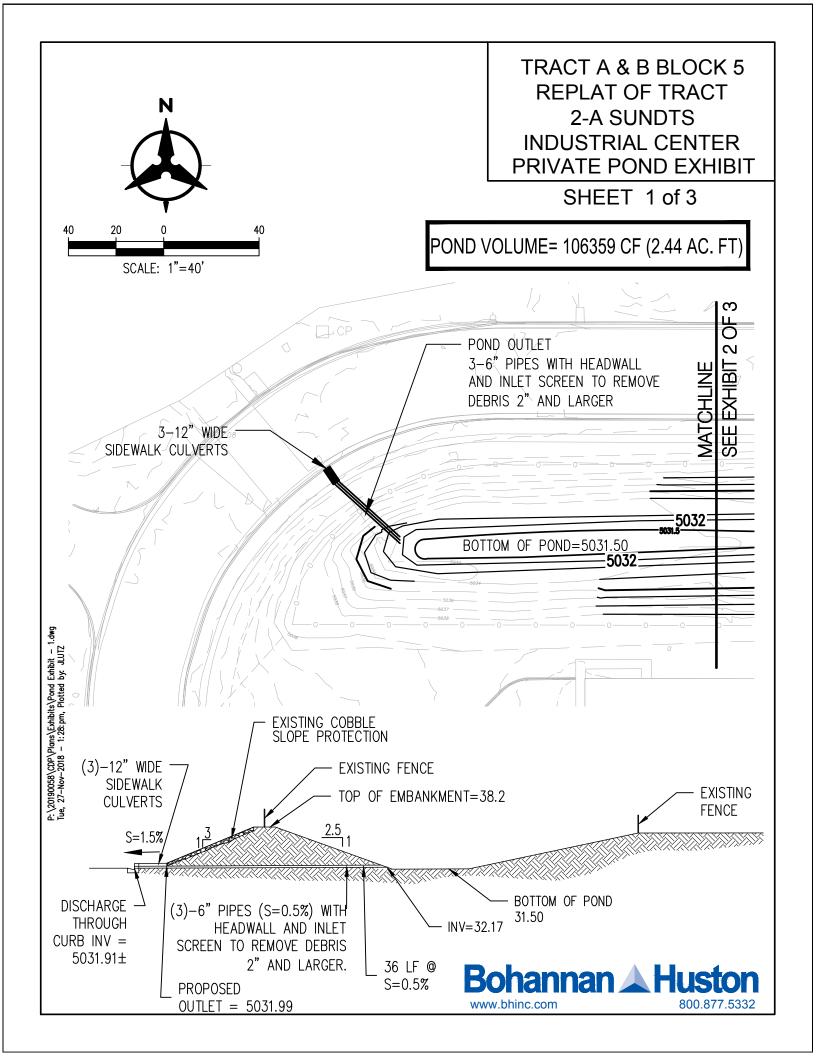
With this submittal, we are requesting City of Albuquerque Hydrology Building Permit Approval. If you have any questions or require further information, please feel free to contact me.

Sincerely,

Glenn S. Broughton, PE Senior Project Manager

Community Development & Planning

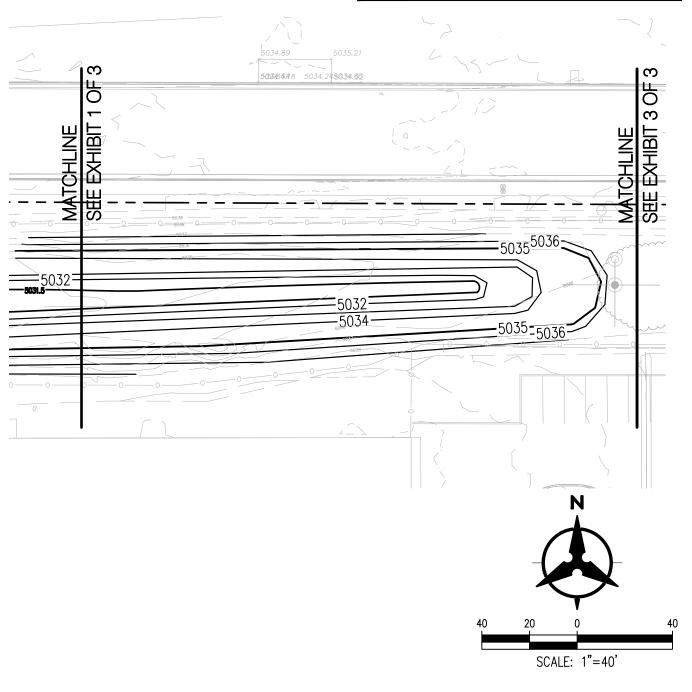
GSB/jcm Enclosures



TRACT A & B BLOCK 5 REPLAT OF TRACT 2-A SUNDTS INDUSTRIAL CENTER PRIVATE POND EXHIBIT

SHEET 2 of 3

POND VOLUME= 106359 CF (2.44 AC. FT)



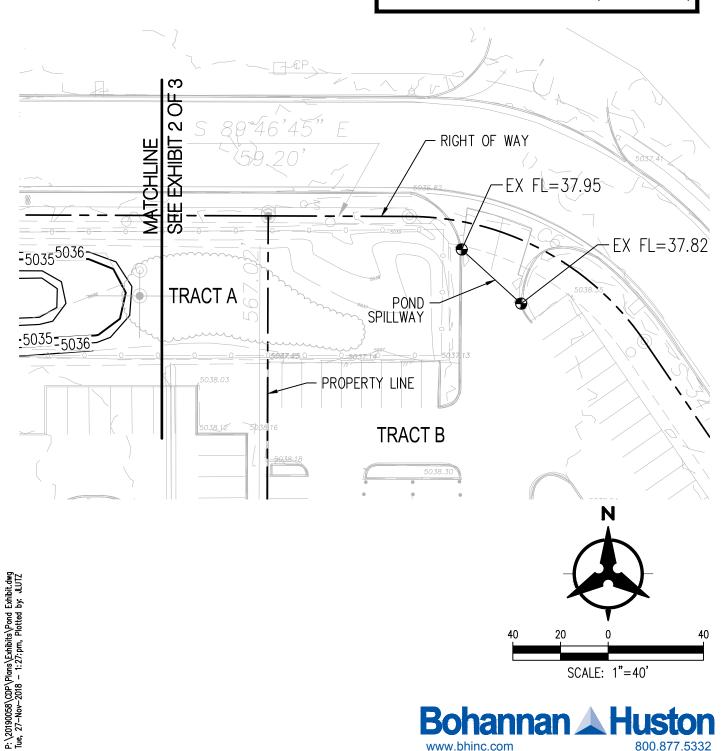
P:\20190058\CDP\Plans\Exhibits\Pond Exhibit.dwg Tue, 27-Nov-2018 - 1:27:pm, Plotted by: JLUTZ



TRACT A & B BLOCK 5 REPLAT OF TRACT 2-A SUNDTS **INDUSTRIAL CENTER** PRIVATE POND EXHIBIT

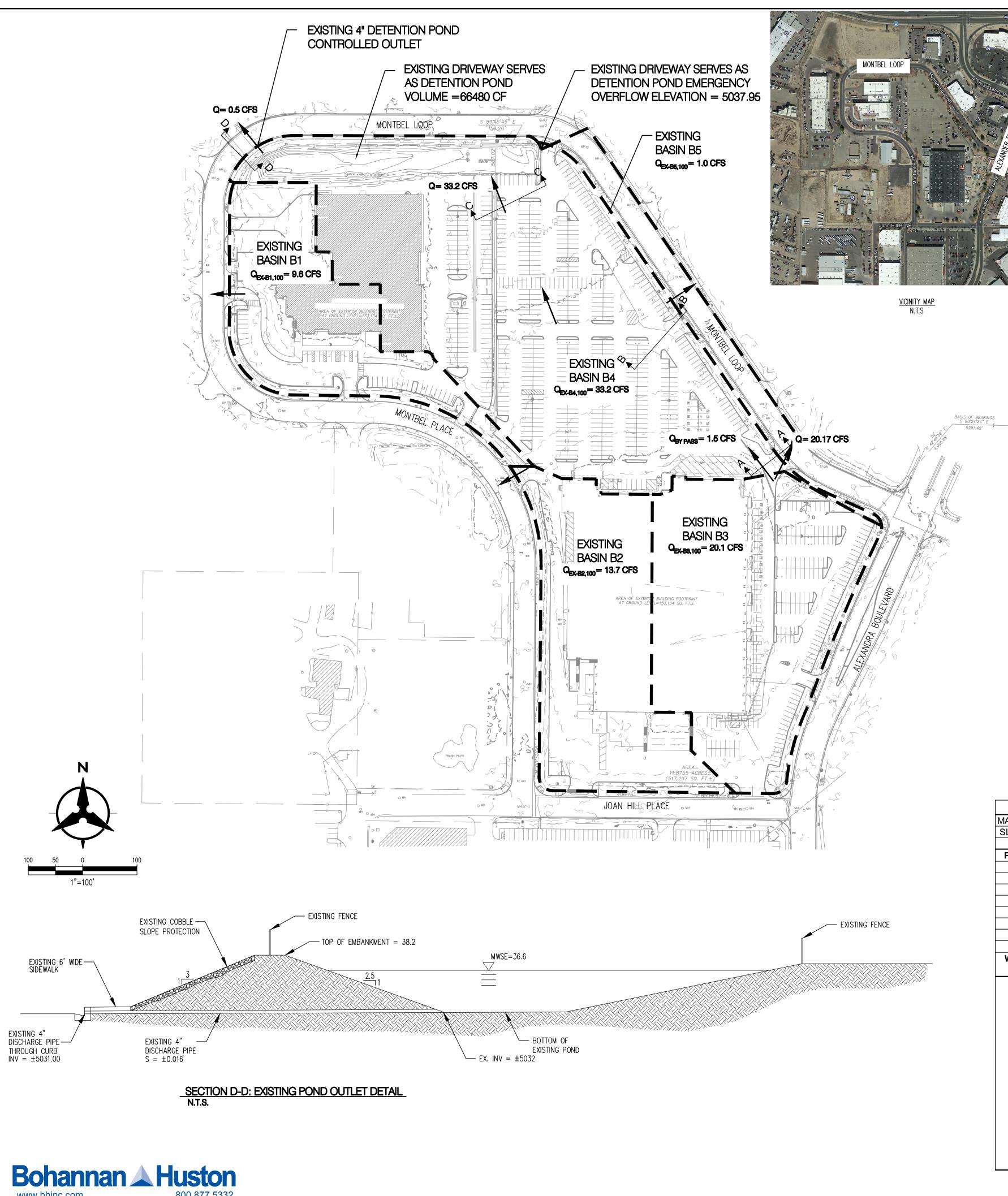
SHEET 3 of 3

POND VOLUME= 106359 CF (2.44 AC. FT)



Bohannan A Huston

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Basin	Area	Area	SCS Curve	Q100	Q/Acre	Volume
	(sq ft)	(sq mi)	Number	(cfs)	(cfs/acre)	(ac-ft)
EX-B1	103121	0.00370	94	9.6	4.06	0.39
EX-B2	132690	0.00477	97	13.7	4.51	0.59
EX-B3	195110	0.00700	97	20.1	4.49	0.86
EX-B4	331107	0.01188	96	33.2	4.37	1.4
EX-B5	11923	0.00042	89	1.0	3.65	0.03

Paved Swale/ Valley Gutter Capacity Calculation

MANNING'S N = 0.016

SLOPE = 0.010

POINT	DIST	ELEV						
1	-16	2						
2	0	0						
3	7	0.2						
WSEL	DEPTH	FLOW	FLOW	WETTED	FLOW	TOPWID	TOTAL	FROUDE
	INC	AREA	RATE	PER	VEL	WATER	ENERGY	NO.
(FT)	(FT)	(SQ.FT)	(CFS)	(FT)	(FPS)	(FT)	(FT)	
0.01	0.01	0.002	0.001	0.431	0.271	0.43	0.011	0.676
0.02	0.02	0.009	0.004	0.862	0.431	0.86	0.023	0.759
0.03	0.03	0.019	0.011	1.292	0.564	1.29	0.035	0.812
0.04	0.04	0.034	0.024	1.723	0.683	1.72	0.047	0.852
0.05	0.05	0.054	0.043	2.154	0.793	2.15	0.06	0.884
0.06	0.06	0.077	0.069	2.585	0.896	2.58	0.072	0.912
0.07	0.07	0.105	0.105	3.015	0.993	3.01	0.085	0.935
0.08	0.08	0.138	0.149	3.446	1.085	3.44	0.098	0.956
0.09	0.09	0.174	0.204	3.877	1.174	3.87	0.111	0.975
0.1	0.1	0.215	0.271	4.308	1.259	4.3	0.125	0.993
0.11	0.11	0.26	0.349	4.738	1.342	4.73	0.138	1.009
0.12	0.12	0.31	0.44	5.169	1.422	5.16	0.151	1.023
0.13	0.13	0.363	0.545	5.6	1.5	5.59	0.165	1.037
0.14	0.14	0.421	0.664	6.031	1.576	6.02	0.179	1.05
0.15	0.15	0.484	0.798	6.461	1.65	6.45	0.192	1.062
0.16	0.16	0.55	0.948	6.892	1.722	6.88	0.206	1.074
0.17	0.17	0.621	1.114	7.323	1.793	7.31	0.22	1.084
0.18	0.18	0.697	1.298	7.754	1.863	7.74	0.234	1.095
0.19	0.19	0.776	1.499	8.185	1.931	8.17	0.248	1.105

16.0' ANAL DISCH COMF EXISTING RIDGE MONTBEL LOOP 2.0' EXISTING VALLEY 0.2'

SECTION A-A

		I.T.S.					
Existing Pond Analysis Output							
Peak Inflow	Peak Discharge	Peak Storage	Existing Detention Pond	Maximum Water Surface	Spillway Elevation		
CFS	CFS	CF	CF	FT	FT		
33.20	0.50	52272	66480	5036.60	5037.95		

SECTION B-B Capacity Calculation MANNING'S N = 0.016 SLOPE = 0.014

POINT	DIST	ELEV	POINT	DIST	ELEV
1	40.8	42.287	9	86.26	41.746
2	40.94	42.275	10	88.55	41.779
3	46.88	42.255	11	92.08	41.802
4	47.24	42.271	12	97.2	41.776
5	47.96	42.283	13	100.66	41.773
6	61.76	41.931	14	103.54	41.813
7	83.66	41.789	15	106.63	41.837
8	84.61	41.782	16	133.2	42.138

8	84.61	41.782	16	133.2	42.138	
WSEL	DEPTH	FLOW	FLOW	WETTED	FLOW	TOTA
	INC	AREA	RATE	PER	VEL	ENER
(FT)	(FT)	(SQ.FT)	(CFS)	(FT)	(FPS)	(FT)
41.986	0.24	8.351	24.597	60.182	2.945	0.3
41.996	0.25	8.959	27.271	61.457	3.044	0.3
42.006	0.26	9.58	30.078	62.732	3.14	0.4
42.016	0.27	10.214	33.021	64.007	3.233	0.4
42.026	0.28	10.86	36.099	65.282	3.324	0.4
42.036	0.29	11.519	39.314	66.557	3.413	0.4
42.046	0.3	12.191	42.666	67.832	3.5	0.4
42.056	0.31	12.876	46.158	69.107	3.585	0.
42.066	0.32	13.573	49.789	70.382	3.668	0.5
42.076	0.33	14.283	53.561	71.657	3.75	0.5
42.086	0.34	15.006	57.474	72.932	3.83	0.5
42.096	0.35	15.742	61.532	74.207	3.909	0.5
42.106	0.36	16.49	65.733	75.481	3.986	0.6
42.116	0.37	17.251	70.08	76.756	4.062	0.6
42.126	0.38	18.025	74.574	78.031	4.137	0.6
42.136	0.39	18.812	79.216	79.306	4.211	0.6
·		·		·	·	·



INTRODUCTION:

THE PURPOSE OF THIS SUBMITTAL IS TO PRESENT THE EXISTING DRAINAGE MANAGEMENT PLAN FOR THE OSO BIO AND THE ALBUQUERQUE AMBULANCE SITES. THIS ANALYSIS WILL QUANTIFY DISCHARGE RATES, ASSOCIATED VOLUMES AND CAPACITY OF THE DETENTION POND.

THE SITE IS LOCATED AT THE NORTHWEST CORNER OF JOAN HILL PLACE AND ALEXANDRA BOULEVARD. IT IS BORDERED ON THE NORTH BY MONTBEL LOOP, ON THE WEST BY MONTBEL PLACE, ON THE SOUTH BY JOAN HILL PLACE AND ON THE EAST BY ALEXANDRA BOULEVARD. THE TOTAL ANALYSIS AREA IS APPROXIMATELY 18 ACRES AND ALL OF WHICH IS FULLY DEVELOPED.

METHODOLOGY:

THE CITY IS IN THE PROCESS OF UPDATING THE DPM. ALTHOUGH THE DPM UPDATE HAS NOT BEEN OFFICIALLY ADOPTED, THE ANALYSIS METHODOLOGY IS PER THE PROPOSED UPDATE.

THE METHODOLOGY SELECTED TO COMPUTE RUNOFF VOLUME IS BASED ON THE SCS UNIT HYDROGRAPH. RAINFALL VALUES WERE BASED ON THE PROPOSED VALUES FROM THE DPM. THE SITE WAS ANALYZED FOR THE 100 YEAR 24 HOUR STORM EVENT USING THE US ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER'S HYDROLOGIC MODELING SYSTEM (HEC-HMS, VERSION 4.2). SURFACE CHARACTERISTICS AFFECTING INITIAL ABSTRACTION AND INFILTRATION RATES ARE PRESENTED BY CURVE NUMBERS. CURVE NUMBERS ARE BASED ON LAND TREATMENT AND AS SPECIFIED IN THE DPM UPDATE.

EXISTING CONDITIONS:

A DRAINAGE REPORT FOR PRICE CLUB SITE IMPROVEMENTS DATED SEPTEMBER 1990 IS THE BASIS OF THE ALLOWABLE PEAK DISCHARGE FROM THE SITE. BASED ON THIS REPORT THE ALLOWABLE DISCHARGE FROM THE SITE IS 32.35 CFS.

BASED ON THE EXISTING TOPOGRAPHY, THE ENTIRE SITE IS DIVIDED INTO 5 BASINS.

EXISTING BASIN 1 IS APPROXIMATELY 2.37 ACRES AND CONSISTS PAVED AREA, ROOF AREA AND SOME LANDSCAPED AREA. DRAINAGE OF THIS BASIN DISCHARGES TO MONTBEL LOOP.

EXISTING BASIN 2 IS LOCATED NORTH OF JOAN HILL PLACE. THIS BASIN IS APPROXIMATELY 3.05 ACRES AND CONSISTS LARGE AMOUNT OF ROOF AREA, PAVED AREA AND VERY LIMITED AMOUNT OF LANDSCAPED AREA. DRAINAGE OF THIS BASIN DISCHARGES TO MONTBEL PLACE.

EXISTING BASIN 3 IS APPROXIMATELY 4.48 ACRES. IT IS LOCATED WEST OF ALEXANDRA BOULEVARD. ACCORDING TO THE DRAINAGE REPORT FOR PRICE CLUB SITE IMPROVEMENTS, SEPTEMBER 1990, THIS BASIN WAS ORIGINALLY DESIGNED TO FLOW TOWARD THE POND. HOWEVER, THE EXISTING PAVED SWALE AND VALLEY GUTTER IS UNDERSIZED TO CONVEY THE CALCULATED PEAK FLOW FOR THIS BASIN TO BASIN A. IT IS DIRECTING MAJORITY OF THE FLOW INTO MONTBEL LOOP. ONLY 1.5 CFS OF THE DISCHARGE FLOWS INTO EXISTING BASIN 4. SEE THE TABLE BELOW FOR THE CAPACITY OF PAVED SWALE/ VALLEY GUTTER.

EXISTING BASIN 4 IS APPROXIMATELY 7.60 ACRES AND COMPOSED OF ROOF, PAVEMENT AND LANDSCAPED POND. RUNOFF OF THIS BASIN FLOWS NORTHWEST AND TOTALLY CONTAINED BY THE POND AND DISCHARGED AT A CONTROLLED RATE.

EXISTING BASIN 5 IS APPROXIMATELY 0.27 ACRES. IT CONSISTS LANDSCAPE AREA AND VERY LIMITED CONCRETE. THIS BASIN DOES NOT CONTRIBUTE ANY SIGNIFICANT AMOUNT OF RUNOFF.

THE DETENTION POND IS LOCATED AT THE NORTH WEST CORNER OF THE SITE. THE POND DISCHARGES TO THE FLOWLINE OF THE GUTTER THROUGH A 4 INCH PVC PIPE. ACCORDING TO THE ORIGINAL DESIGN, THE VOLUME OF THE DETENTION POND WAS 66,717 CF WITH A PEAK DISCHARGE OF 0.5 CFS. BASED ON THIS ANALYSIS THE TOTAL PEAK FLOW DISCHARGING FROM THE SITE IS 44.95 CFS. THE CALCULATED PEAK DISCHARGE FROM THE SITE CURRENTLY EXCEEDS THE ALLOWABLE PEAK DISCHARGE AND IS NOT IN COMPLIANCE WITH THE APPROVED PRICE CLUB DRAINAGE REPORT.

	POND - ORIFICE ANALYSIS						
Orifice Coef		0.62					
Orifice Diam (inches)		4					
Outflow (cfs)	*Head (ft)	Water Surface Elevation	Storage (ac-ft)				
0.0	0.00	5033.00	0.00				
0.0	0.00	5033.17	0.00				
0.3	0.50	5033.50	0.00				
0.4	1.00	5034.00	0.02				
0.5	1.50	5034.50	0.07				
0.6	2.00	5035.00	0.16				
0.7	2.50	5035.50	0.28				
0.8	3.00	5036.00	0.40				
0.8	3.50	5036.50	0.58				
0.9	4.00	5037.00	0.77				
0.9	4.50	5037.50	1.06				
1.0	5.00	5038.00	1.53				
* HEAD MEASURED * OUTFLOW IS BASE							

SECTION C-C Capacity Calculation MANNING'S N = 0.016 SLOPE = 0.012

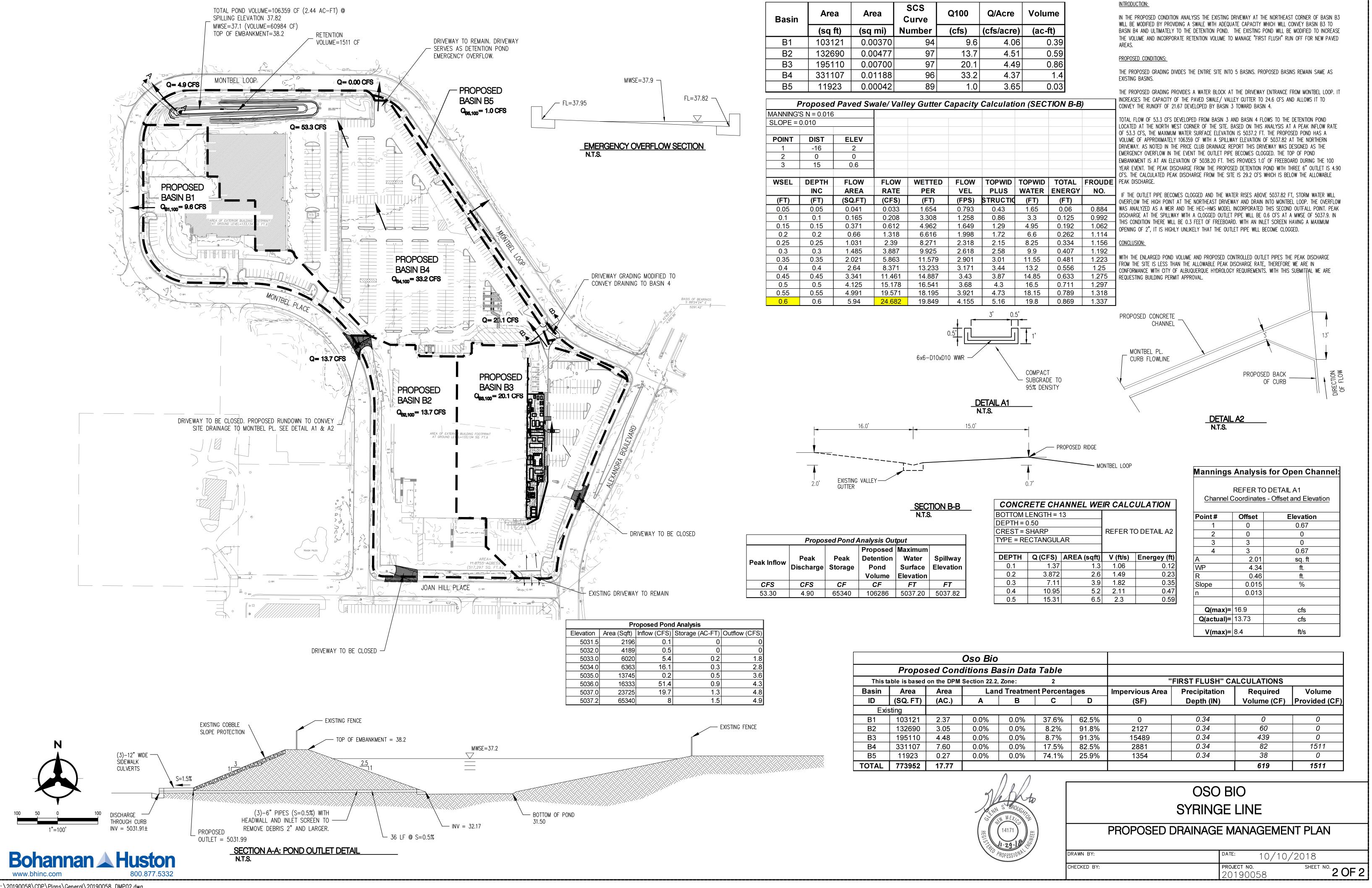
						_
POINT	DIST	ELEV	POINT	DIST	ELEV	
1	139.85	5037.754	8	187.34	5037.422	
2	157.44	5037.592	9	191.44	5037.404	
3	158.49	5037.589	10	211.99	5037.302	
4	163.87	5037.579	11	222.21	5037.296	
5	165.51	5037.557	12	228.12	5037.326	
6	168.64	5037.519	13	233.4	5037.466	
7	184.49	5037.447	14	264.232	5037.8	
WSEL	DEPTH	FLOW	FLOW	WETTED	FLOW	TOT
	INC	AREA	RATE	PER	VEL	ENEF
(FT)	(FT)	(SQ.FT)	(CFS)	(FT)	(FPS)	(F1
5037.396	0.1	8.995	17.754	105.26	1.974	0.
5037 496	0.2	8 908	18 704	95 019	21	0

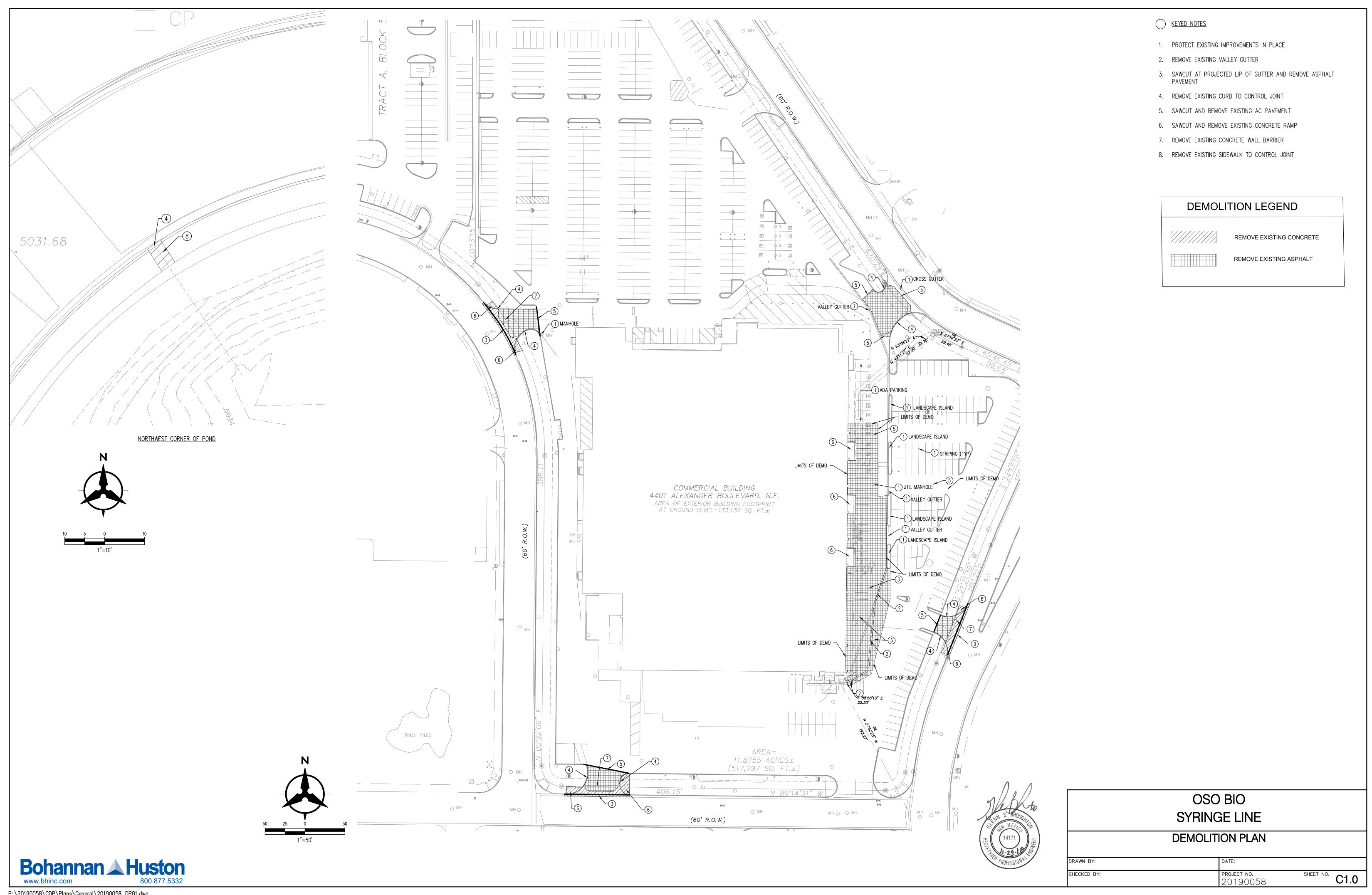
	INC	AREA	KAIL	PER	VEL	ENERG
(FT)	(FT)	(SQ.FT)	(CFS)	(FT)	(FPS)	(FT)
5037.396	0.1	8.995	17.754	105.26	1.974	0.16
5037.496	0.2	8.908	18.704	95.019	2.1	0.26
5037.596	0.3	14.85	45.996	88.398	3.097	0.44
5037.696	0.4	24.694	93.657	108.489	3.793	0.62

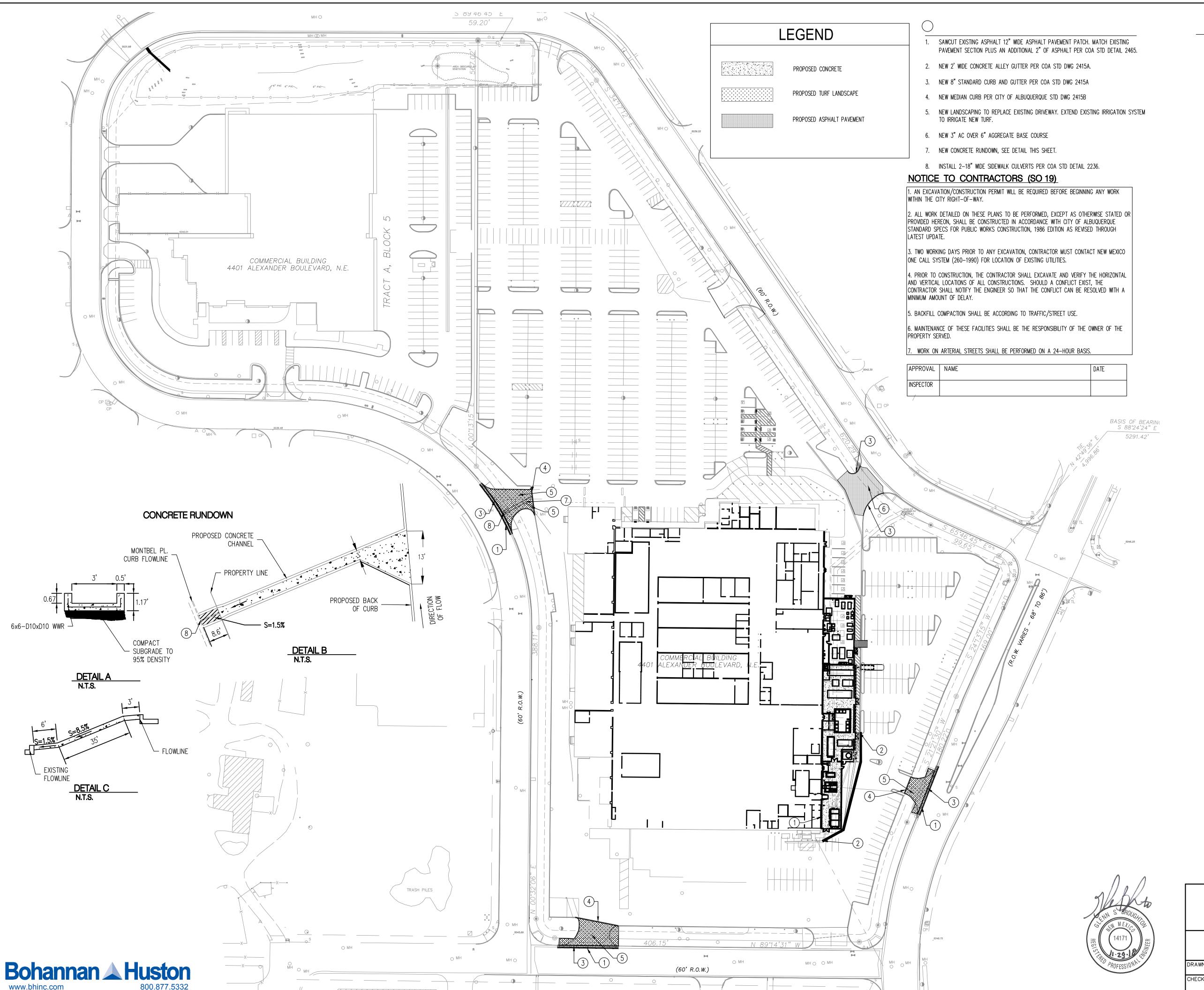
OSO BIO SYRINGE LINE

EXISTING DRAINAGE MANAGEMENT PLAN

DRAWN BY:	DATE: 06/21/201	8
CHECKED BY:	PROJECT NO. SI 20190058	1 OF 2

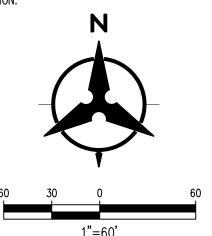






GENERAL NOTES

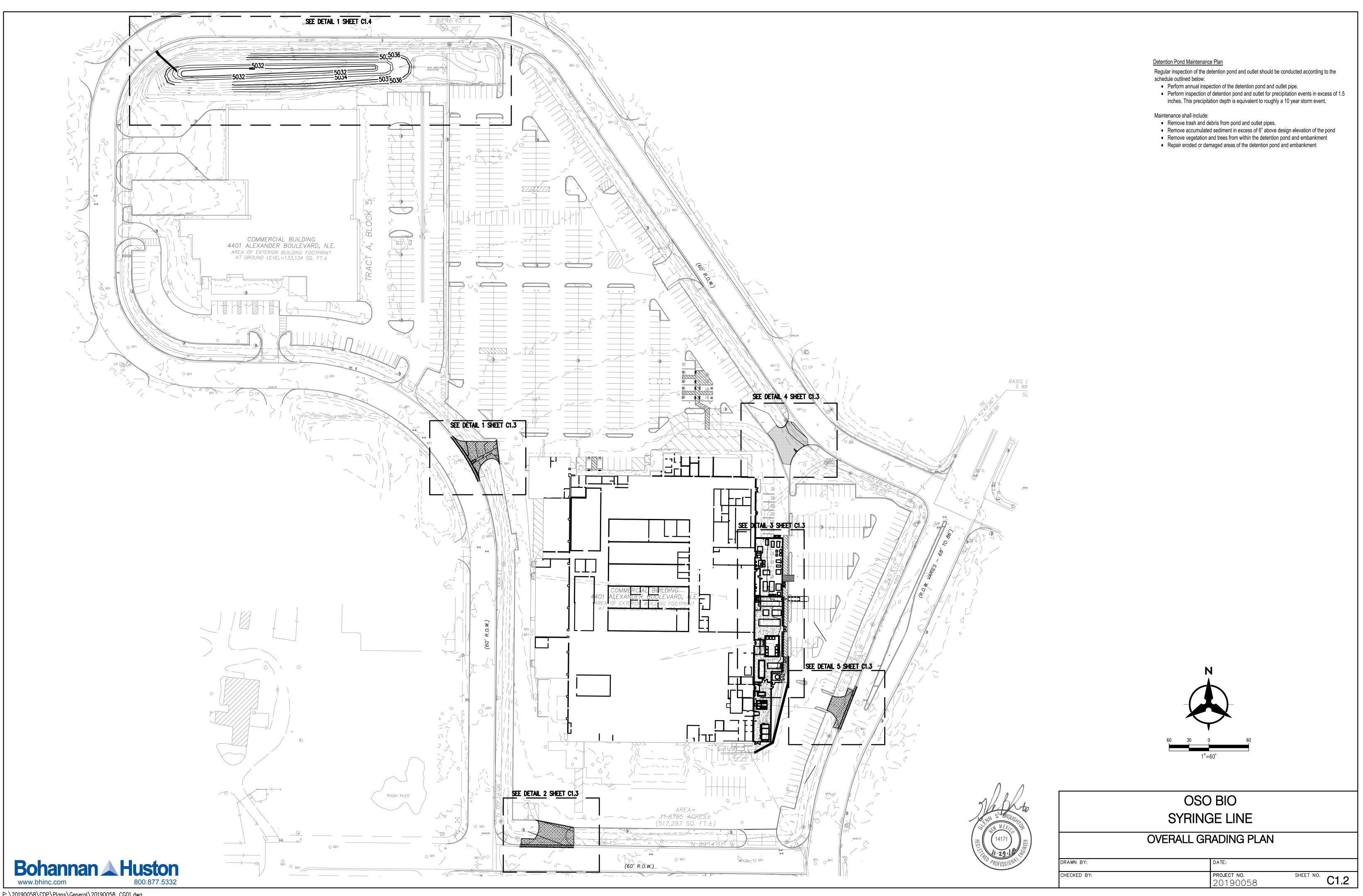
- 1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, NMAPWA PUBLIC WORKS STANDARDS SHALL APPLY.
- 2. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 3. 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.
- 4. 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.
- 5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 6. 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.
- 7. 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.
- 8. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 9. 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.
- 10. 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.).
- 11. 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.
- 12. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM BERNALILLO COUNTY, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 13. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 14. 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.
- 15. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- 16. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- 17. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- 18. 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, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE NMAPWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- 19. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- 20. 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.
- 21. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- 22. 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.
- 23. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- 24. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- 25. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

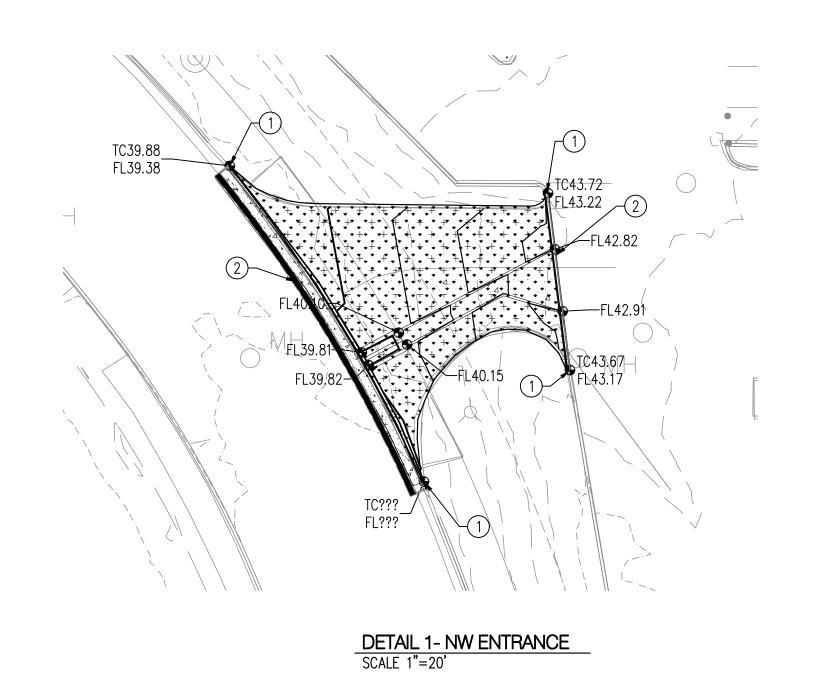


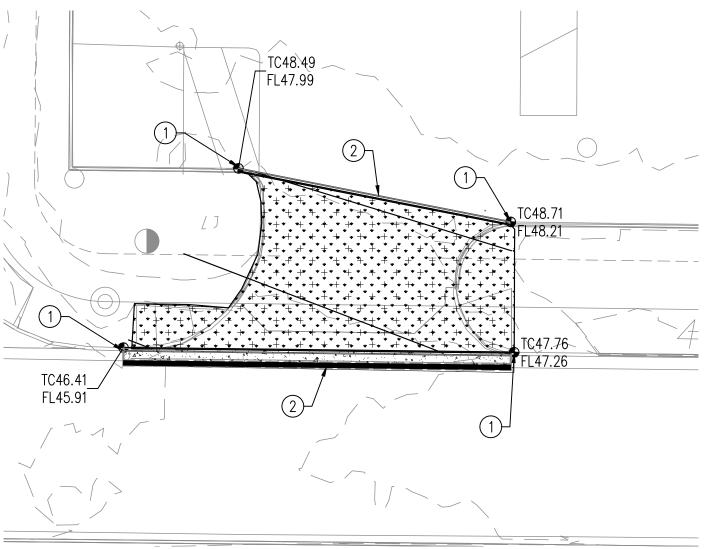
OSO BIO SYRINGE LINE

PAVING PLAN

DRAWN BY:	DATE:	
CHECKED BY:	PROJECT NO. 20190058	SHEET NO. C1.1



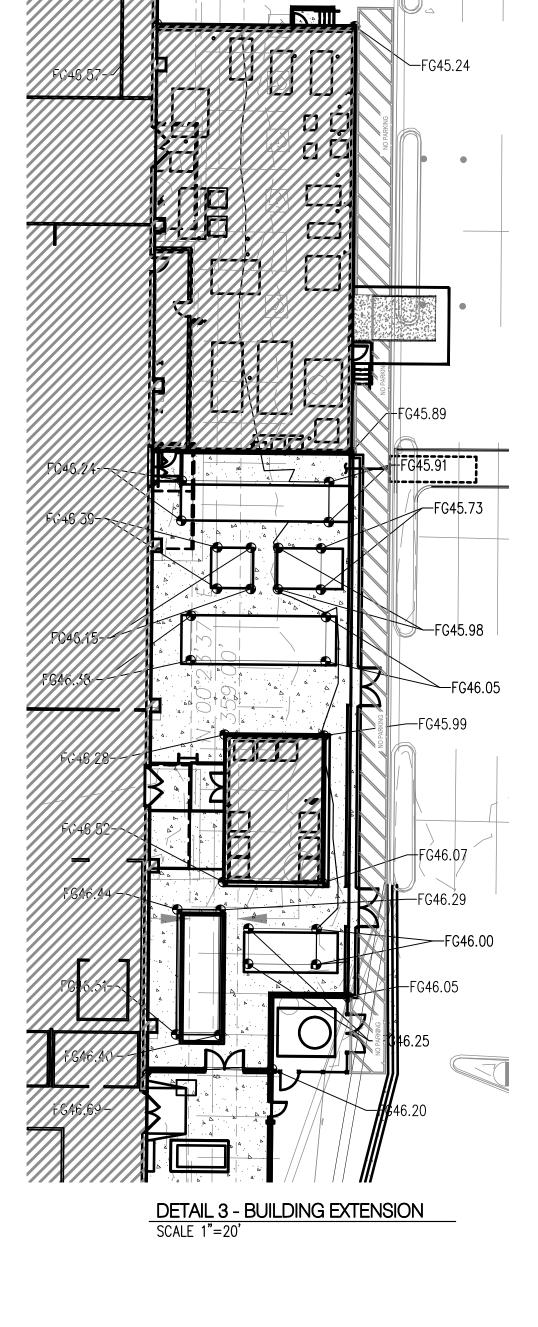


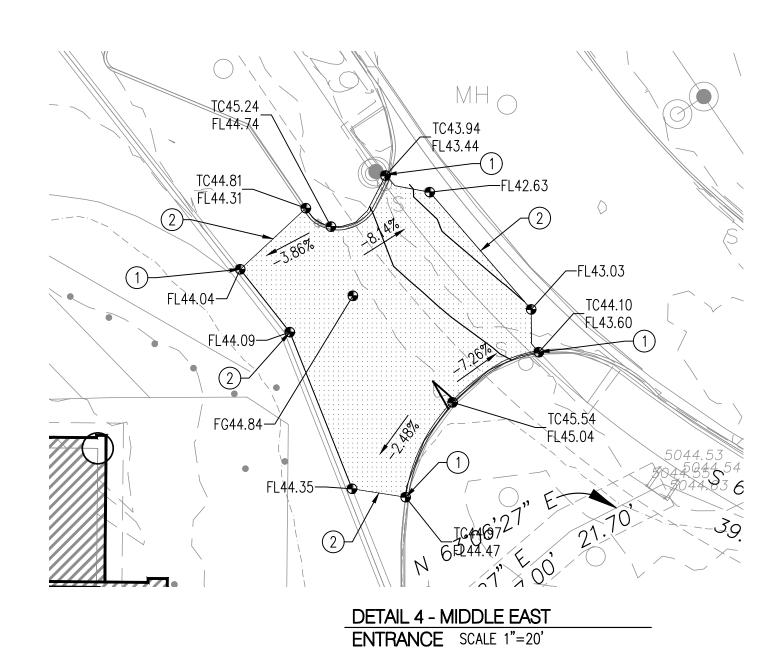


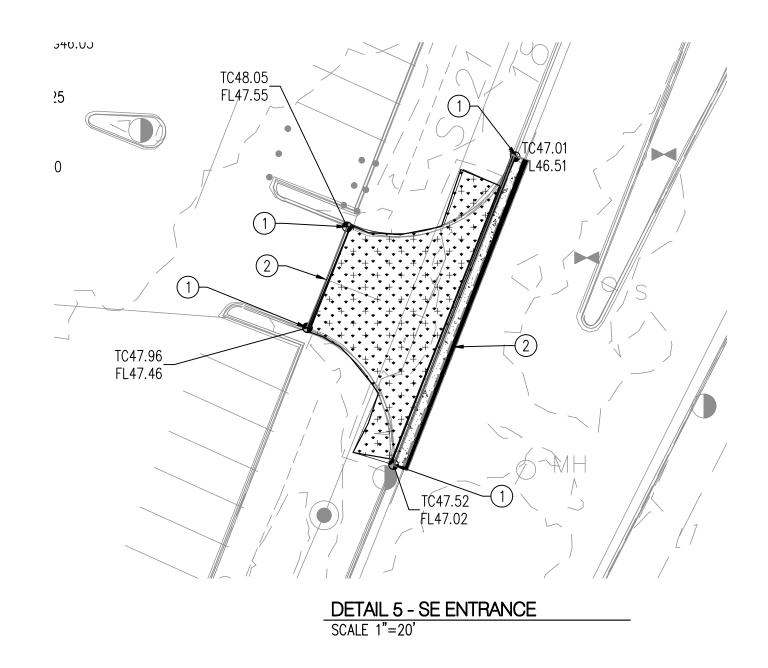
DETAIL 2 - SW ENTRANCE
SCALE 1"=20'



- 1. MATCH EXISTING CURB HORIZONTALLY AND VERTICALLY.
- 2. MATCH EXISTING PAVEMENT GRADE.







NOTICE TO CONTRACTORS (SO 19)

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH LATEST UPDATE.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

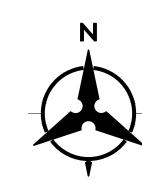
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.

6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVAL	NAME	DATE
INSPECTOR		





OSO BIO SYRINGE LINE

ENLARGED GRADING PLAN	

DRAWN BY:

CHECKED BY:

PROJECT NO.
20190058

C1.3



