

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 6, 2023

Genny Donart, P.E.
Isaacson & Arfman, P.A.
128 Monroe St. N.E
Albuquerque, NM 87108

**RE: TLC Batch Plant
Revised Grading & Drainage Plans
Engineer's Stamp Date: 12/01/22
Hydrology File: G15D205**

Dear Ms. Donart:

Based upon the information provided in your submittal received 02/13/2023, the Revised Grading & Drainage Plans are approved for Grading Permit and Paving Permit. Once the grading and foundations of the project is complete, please provide an as-built for the City's records since there is no CO attached to the project.

Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol. Once the review is done, Hydrology will send back an email stating our approval/comments.

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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: TLC Batch Plant **Building Permit #** _____ **Hydrology File #** G15D205

DRB# _____ **EPC#** _____

Legal Description: TRACTS 4-A AND 4-B, LANDS OF LAFARGE **City Address OR Parcel** 705 Carmony Rd NE
AND TRACT B-1, LAND OF JR NANCE

Applicant/Agent: Isaacson & Arfman, Inc. **Contact:** Genny Donart / Justin Thor Simenson

Address: 128 Monroe St NE, ABQ, NM 87108 **Phone:** (505) 268-8828

Email: gennyd@iacivil.com / thors@iacivil.com

Applicant/Owner: TLC Plumbing & Heating **Contact:** Paul Layer

Address: 5000 Edith Blvd. NE Albuquerque, NM 87107 **Phone:** (505) 761-5531

Email: paull@tlcplumbing.com

TYPE OF DEVELOPMENT: PLAT (#of lots) RESIDENCE DRB SITE ADMIN SITE: X

RE-SUBMITTAL: X YES NO

DEPARTMENT: TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that apply:

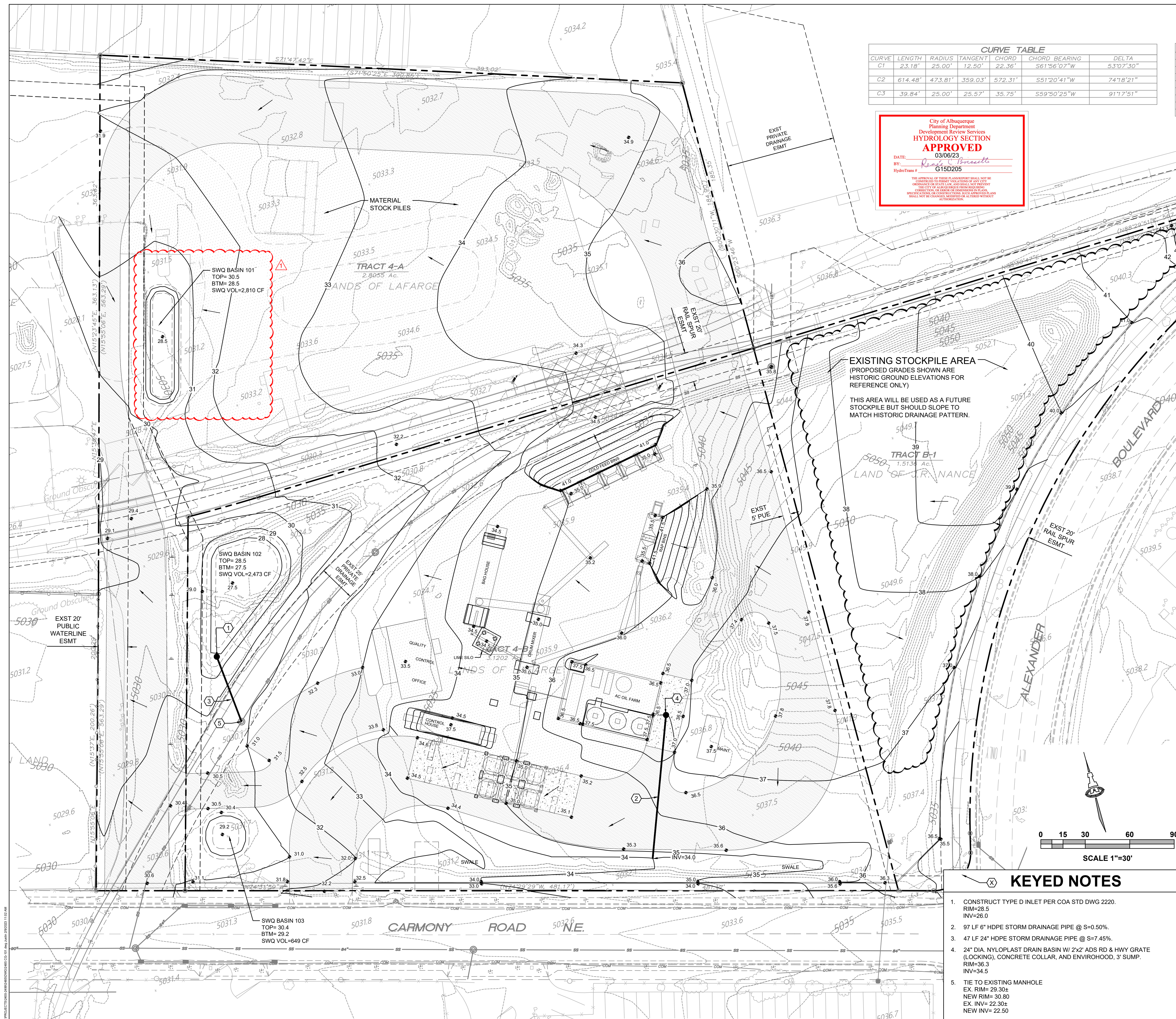
TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G&D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ FLOOD PLAN DEVELOPMENT PERMIT APP.
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ADMINISTRATIVE
- ☐ TRAFFIC CIRCULATION LAYOUT FOR DRB APPROVAL
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY)
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ CONCEPTUAL TCL DRB APPROVAL
- ☐ 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
- ☐ FLOOD PLAN DEVELOPMENT PERMIT
- ☐ OTHER (SPECIFY) _____

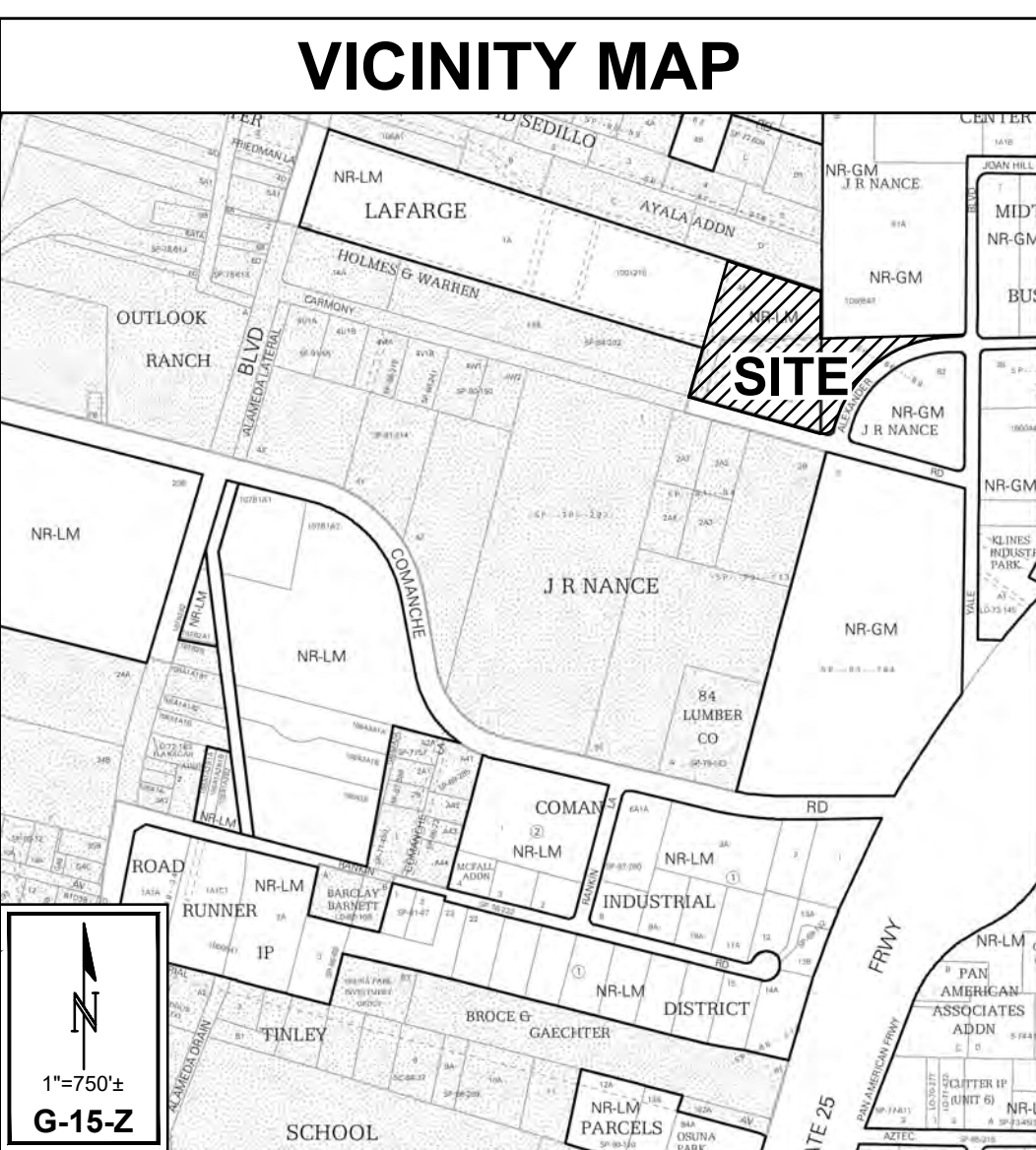
DATE SUBMITTED: 02/10/2023



CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	23.18'	25.00'	12.50'	22.36'	S61°56'07"W	53°07'30"
C2	614.48'	473.81'	359.03'	572.31'	S51°20'41"W	74°18'21"
C3	39.84'	25.00'	25.57'	35.75'	S59°50'25"W	91°17'51"

City of Albuquerque
Planning Department
Development Review Section
HYDROLOGY SERVICES
APPROVED
DATE: 03/06/23
BY: *Renee Brissette*
HydroTrans # G15D205

THE APPROVAL OF THESE PLANS/PRESENTATION SHALL NOT BE
CONSIDERED A GUARANTEE OF ACCURACY OR A STATEMENT OF
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM BEING HELD RESPONSIBLE FOR
CORRECTION, OR ERROR OR OMISSIONS IN PLANS,
SPECIFICATIONS, OR CONDITIONS. ANY APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.



PROJECT INFORMATION

PROPERTY: THE SITE IS A PREVIOUSLY DEVELOPED PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP G-15. THE SITE IS BOUND TO THE EAST BY ALEXANDER BLVD. NE, TO THE SOUTH BY CARMONY RD. NE, TO THE NORTH AND WEST BY DEVELOPED COMMERCIAL PROPERTIES.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE AN ASPHALT BATCH PLANT, MATERIAL STOCKPILES, AND ROADWAYS. THE ASPHALT BATCH PLANT EQUIPMENT IS MODULAR AND MOBILE BUT WILL BE PLACED ON FOUNDATION PADS. THE AREA UNDER AND AROUND THE PLANT EQUIPMENT WILL BE ASPHALT.

LEGAL: TRACTS 4-A AND 4-B, LANDS OF LAFARGE AND TRACT B-1, LAND OF JR NANCE.

SITE AREA: 7.4393 AC.

BENCHMARK: VERTICAL DATUM IS BASED UPON ALBUQUERQUE
CONTROL SURVEY MONUMENT "NM47-10", ELEVATION = 4970.252 FEET
(NAVD 88).

OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY. THE FLOWS FROM THE ADJACENT PROPERTY TO THE NORTHEAST (TRACT A) AS CONVEYED THROUGH THIS PROPERTY IN A PRIVATE STORM DRAIN.

FLOOD HAZARD: THE SUBJECT PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREA WITH REDUCED FLOOD RISK DUE TO LEVEE) AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NUMBERS 35001C0119G, EFFECTIVE DATE SEPTEMBER 26, 2008 AND 35001C0138H, EFFECTIVE DATE AUGUST 16, 2012.

DRAINAGE PLAN CONCEPT: BASED ON A PREDESIGN MEETING WITH COA HYDROLOGY, (RENÉE BRISETTE - SENIOR ENGINEER) THE PROPERTY IS PERMITTED FREE DISCHARGE TO THE PUBLIC STREETS AND THE EXISTING PUBLIC STORM DRAINS THAT ARE WITHIN THE PROPERTY AND IN CARMONY ROAD NE.

SURVEYOR: RUSS P. HUGG, NMPS NO. 9750, SURV-TEK, INC.

STORMWATER QUALITY PONDS

BASED ON HISTORICAL GOOGLE IMAGERY, THIS PROPERTY HAS BEEN PREVIOUSLY DEVELOPED AS A COMMERCIAL BUSINESS. FOR REDEVELOPMENT SITES, THE CABQ STORMWATER QUALITY VOLUME (SWQV) IS BASED ON THE 80TH PERCENTILE STORM EVENT OR 0.26".

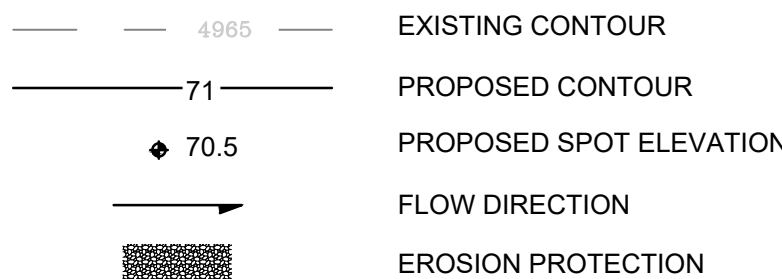
THE ESTIMATED IMPERVIOUS AREA FOR THIS PROPERTY IS CALCULATED AS 45% OF TOTAL AREA: $(0.45 * 7.4393 \text{ AC} * 43,560 \text{ FT}^2/\text{AC}) = 144,461 \text{ SF}$. THE TOTAL REQUIRED S.Q. RETENTION VOLUME = $0.26' * \text{TYPE 'D' AREA: } 0.26/12 * 144,461 \text{ SF}) = 3,130 \text{ CF}$. THIS MAY CHANGE DEPENDING ON THE FINAL IMPERVIOUS AREA TO BE CONSTRUCTED WITHIN EACH BASIN.

THE SWQ BASIN 101 WILL CAPTURE THE REQUIRED SWQ VOLUME OF 2,469 CF FROM BASIN 101. THE SWQ BASIN 102 WILL CAPTURE THE REQUIRED SWQ VOLUME OF 2,056 CF FROM BASIN 102. THE SWQ BASIN 103 WILL CAPTURE THE REQUIRED SWQ VOLUME OF 525 CF FROM BASIN 103.

PRIOR TO BUILDING PERMIT APPROVAL, A "PAYMENT IN-LIEU FOR S.Q. VOLUME REQUIREMENT" TREASURY DEPOSIT SLIP MAY BE PROVIDED BY C.O.A. HYDROLOGY BASED ON THE PORTION OF S.Q. VOLUME (@ \$8.00 / CU YD) THAT IS NOT RETAINED ON-SITE. A COPY OF THE PAID RECEIPT WILL BE REQUIRED PRIOR TO RECEIVING HYDROLOGY APPROVAL FOR BUILDING PERMIT.

A DRAINAGE COVENANT MAY BE REQUIRED FOR THE SWQ PONDS AND THEIR OUTFALL STRUCTURES. IF SO, THE ORIGINAL NOTARIZED FORM, EXHIBIT A (LEGIBLE ON 8.5X11) AND RECORDING FEE (PAYABLE TO CITY OF ALBUQUERQUE) WILL BE SUBMITTED AS DIRECTED.

LEGEND



KEYED NOTES

1. CONSTRUCT TYPE D INLET PER COA STD DWG 2220.
RIM=28.5
INV=20.0
2. 97 LF 6" HDPE STORM DRAINAGE PIPE @ S=0.50%.
3. 47 LF 24" HDPE STORM DRAINAGE PIPE @ S=7.45%.
4. 24" DIA. NYLOPLAST DRAIN BASIN W/ 2"x2" ADS RD & HWY GRATE (LOOKING), CONCRETE COLLAR, AND ENVIROHOOD, 3' SUMP.
RIM=36.3
INV=34.5
5. TIE TO EXISTING MANHOLE
EX. RIM= 29.30;
NEW RIM= 30.80
EX. INV= 22.30;
NEW INV= 22.50

Arfman & Associates, Inc.
Civil Engineering Consultants

128 Monroe Street NE
Albuquerque, NM 87108
505-268-8828 | www.iacivil.com



© 2020 Isaacson & Arfman, Inc.
This design, calculations, and
concepts are owned by and
remain the property of Isaacson &
Arfman, Inc. and no part thereof
shall be utilized by any person,
firm or corporation for any
purpose whatsoever except with
the written permission of
Isaacson & Arfman, Inc.

Engineer 12/01/2022

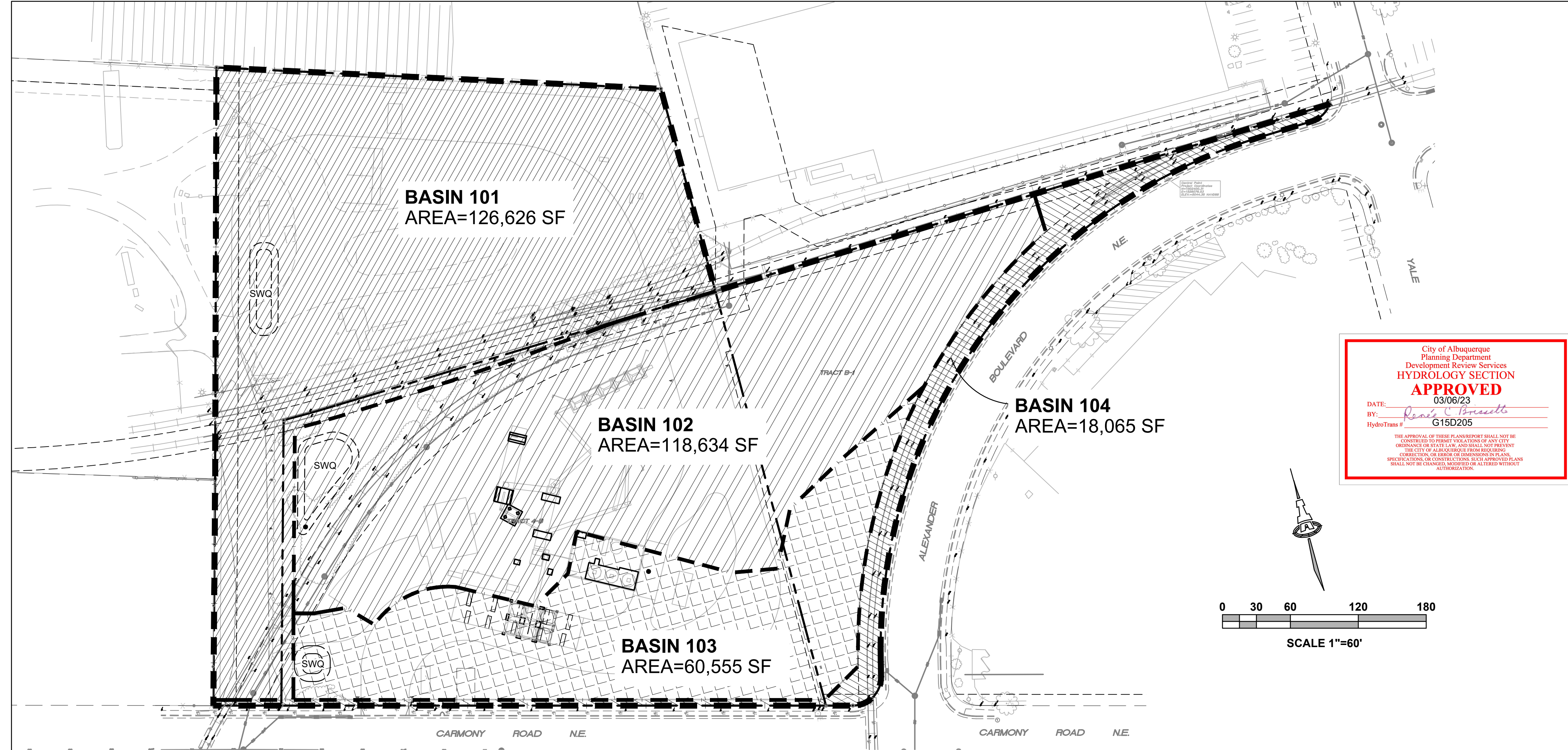
TLC BATCH PLANT
705 Carmony Road NE

No	Date	Description
1	02/2023	REVISED PAYING LIMITS
<div> <div>CONSTRUCTION</div> <div>ISSUE: DOCUMENTS</div> </div>		
PROJECT NUMBER: IA 2485		
FILE: -		
DRAWN BY: thor		
CHECKED BY: FCA		
DATE: 02/03/2023		

GRADING & DRAINAGE PLAN

SHEET NUMBER

CG-101



SWQ BASIN 101 STAGE STORAGE TABLE						
ELEV	AREA (sq. ft.)	DEPTH (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
5,028.50	897.74	N/A	N/A	0.00	N/A	0.00
5,029.50	1,399.18	1.00	1148.46	1148.46	1139.23	1139.23
5,030.50	1,957.16	1.00	1678.17	2826.63	1670.39	2809.61

SWQ BASIN 102 STAGE STORAGE TABLE						
ELEV	AREA (sq. ft.)	DEPTH (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
5,027.50	1,848.19	N/A	N/A	0.00	N/A	0.00
5,028.50	3,156.39	1.00	2502.29	2502.29	2473.29	2473.29

SWQ BASIN 103 STAGE STORAGE TABLE						
ELEV	AREA (sq. ft.)	DEPTH (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
5,029.20	278.63	N/A	N/A	0.00	N/A	0.00
5,030.40	855.74	1.20	680.62	680.62	649.07	649.07

CALCULATIONS: TLC Batch Plant : 43504						
100-YEAR, 6-HOUR CALCULATIONS						
AREA OF SITE:	323880	SF	=	7.44	ACRE	
100-year, 6-hour						
DEVELOPED FLOWS:			EXCESS PRECIP:			
			Treatment SF	%	Precip. Zone	2
Area A	=		0	0%	E _A = 0.62	
Area B	=		0	0%	E _B = 0.80	
Area C	=		90787	28%	E _C = 1.03	
Area D	=		233093	72%	E _D = 2.33	
Total Area	=		323880	100%		
On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)						
Weighted E =	$\frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$					
	<div>Developed E = 1.97 in.</div>					
On-Site Volume of Runoff: V ₃₆₀ =						
	$\frac{E \cdot A}{12}$					
	<div>Developed V₃₆₀ = 53051 CF</div>					
On-Site Peak Discharge Rate: Q _p = Q _{1A} A _A + Q _{1B} A _B + Q _{1C} A _C + Q _{1D} A _D / 43,560						
For Precipitation Zone 2						
	Q _{1A}	=	1.71	Q _{1C}	=	3.05
	Q _{1B}	=	2.36	Q _{1D}	=	4.34
	<div>Developed Q_p = 29.6 CFS</div>					

Job Name:	TLC Batch Plant		
Client:	TLC Plumbing & Utility		
Date Prepared:	5/3/2022	Stormwater Quality Multi	
Date Modified:	2/9/2023	0.26	
Precipitation Zone:	2		
For Zone 2			
EA =	0.62	QpA =	1.71
EB =	0.80	QpB =	2.36
EC =	1.03	QpC =	3.05
ED =	2.33	QpD =	4.34

GRATE OPEN AREA: (per COA std dwg #2220, single grate)	
GROSS AREA FOR ONE GRATE = (25 in/12)(40 in/12) =	6.94
LESS BEARING BARS = (0.5 in/12)(3.33 ft)(13) =	1.80
LESS CROSS BARS = (0.5 in/12)(7)[(25 in/12)-(13)(0.5 in/12)] =	0.45
NET GRATE OPEN AREA =	4.69
GRATE OPEN AREA (assuming 15% clogging factor) =	
	3.99

ORIFICE EQUATION:	
$Q = CA(2gh)^{1/2}$	
Where:	
C =	0.67
A =	3.99 ft ²
g =	32.2 ft/sec ²
h =	height of the water surface above the grate
CAPACITY CALCULATIONS:	
INLET # SWQ BASIN 102	
LOCATION:	
h =	0.5 ft
Q _(capacity) =	15.15971 cfs
REQUIRED Q =	11.1 cfs
NUMBER OF GRATES REQUIRED =	
	1

BASIN NO.	101	DESCRIPTION	North of tracks
Area of basin flows =	126626	SF	= 2.91 Ac.
The following calculations are based on Treatment %'s as shown in table to the right			
Sub-basin Weighted Excess Precipitation:			LAND TREATMENT
Weighted E =			A = 0%
Sub-basin Volume of Runoff:			B = 0%
V ₃₆₀ =			C = 10%
Sub-basin Peak Discharge Rate:			D = 90%
Q _p =			Stormwater Quality Volume
			2469 CF
BASIN NO.	102	DESCRIPTION	Main plant area
Area of basin flows =	118634	SF	= 2.7 Ac.
The following calculations are based on Treatment %'s as shown in table to the right			
Sub-basin Weighted Excess Precipitation:			LAND TREATMENT
Weighted E =			A = 0%
Sub-basin Volume of Runoff:			B = 0%
V ₃₆₀ =			C = 20%
Sub-basin Peak Discharge Rate:			D = 80%
Q _p =			Stormwater Quality Volume
			2056 CF
BASIN NO.	103	DESCRIPTION	southeast corner
Area of basin flows =	60555	SF	= 1.4 Ac.
The following calculations are based on Treatment %'s as shown in table to the right			
Sub-basin Weighted Excess Precipitation:			LAND TREATMENT
Weighted E =			A = 0%
Sub-basin Volume of Runoff:			B = 0%
V ₃₆₀ =			C = 60%
Sub-basin Peak Discharge Rate:			D = 40%
Q _p =			Stormwater Quality Volume
			525 CF
BASIN NO.	104	DESCRIPTION	along south property line between driveways
Area of basin flows =	18065	SF	= 0.4 Ac.
The following calculations are based on Treatment %'s as shown in table to the right			
Sub-basin Weighted Excess Precipitation:			LAND TREATMENT
Weighted E =			A = 0%
Sub-basin Volume of Runoff:			B = 0%
V ₃₆₀ =			C = 100%
Sub-basin Peak Discharge Rate:			D = 0%
Q _p =			Stormwater Quality Volume
			0 CF

GENERAL NOTES

- A. GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- B. ALL SITE PREPARATION, GRADING OPERATIONS, FOUNDATION CONSTRUCTION, AND PAVEMENT INSTALLATION WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, WHICH WILL BE PROVIDED BY THE OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE NOTED IN THE PLANS, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- C. PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- D. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- E. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AN NPDES PERMIT FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES MEET THE EPA THRESHOLD. (SWPPP, NPDES PERMIT BY OTHERS.). CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE WHO WILL PREPARE SWPPP AND INSPECT REQUIRED ELEMENTS.
- F. ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. PAVING AND ROADWAY GRADES SHALL BE ±0.1' FROM PLAN ELEVATIONS. BUILDING PAD ELEVATION SHALL BE ±0.05' FROM PLAN ELEVATION.
- G. WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±', TRANSITIONS SHALL BE SMOOTH.
- H. PAD ELEVATIONS SHALL BE WITHIN 0.1±
- I. POND DESIGN PARAMETERS AND STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN (TOP OF POND, BOTTOM OF POND, SIZE OF ORIFICE, AREA OF POND, ETC.) TO BE STRICTLY ADHERED TO FOR CERTIFICATION PURPOSES. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- J. POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES WILL BE THE RESPONSIBILITY OF THE FACILITIES OWNER. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.
- K. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. CONTRACTOR SHALL CONTACT NM-811 FOR UTILITY LINE SPOTS FIVE WORKING DAYS PRIOR TO CONDUCTING SITE FIELD WORK. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF NECESSARY DRY UTILITY ADJUSTMENTS.
- L. FOR ENGINEER'S CERTIFICATION OF SUBSTANTIAL COMPLIANCE (FOR CERTIFICATE OF OCCUPANCY) CONTRACTOR SHALL PROVIDE AN AUTOCAD FORMAT AS-BUILT SURVEY PREPARED BY A LICENSED SURVEYOR WHICH INCLUDES:
- L.A. AS-BUILT SPOT ELEVATIONS AT EACH DESIGN SPOT ELEVATION SHOWN ON THE APPROVED PLAN.
- L.B. TOP AND BOTTOM ELEVATIONS AS REQUIRED TO DEFINE THE PERIMETER OF PONDS (TO BE USED BY ENGINEER TO CALCULATE AS-BUILT VOLUME PROVIDED);
- L.C. ALL CONSTRUCTION, INCLUDING DRAIN INLETS, PIPES AND PONDS SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN IN ORDER TO RECEIVE ENGINEER'S CERTIFICATION.
- M. UPON WRITTEN REQUEST, THE ELECTRONIC FILE OF THE GRADING AND DRAINAGE WILL BE PROVIDED TO THE CONTRACTOR FOR VERTICAL CONTROL.
- N. SITE CONSTRUCTION LAYOUT / STAKING SHALL BE COORDINATED WITH THE OWNER.
- STORM DRAIN NOTES**
- O. ALL PRIVATE STORM DRAIN LINES AND FITTINGS SHALL BE THE FOLLOWING MATERIAL:
- < 12" DIA. SHALL BE ADS N-12 WT PIPE
 - = 12" DIA. SHALL BE EITHER ADS N-12 WT PIPE OR ADS MEGA GREEN WT PIPE
 - > 12" DIA. SHALL BE ADS N-12 WT PIPE OR ADS MEGA GREEN WT PIPE
- P. INSTALL ALL STORM DRAIN INLETS AND PIPE PER MANUFACTURER'S SPECIFICATIONS
- Q. STORM DRAIN SYSTEM WILL REQUIRE REGULAR MAINTENANCE TO ENSURE PROPER FUNCTIONING DURING STORM EVENTS. ENGINEER RECOMMENDS THAT OWNER PUT IN PLACE INSPECTION AND MAINTENANCE REQUIREMENTS SCHEDULED TO OCCUR YEARLY AND AFTER MAJOR STORM EVENTS

Isaacson & Arfman, Inc.
Civil Engineering Consultants

© 2020 Isaacson & Arfman, Inc.
This design, calculations, and concepts are owned by and remain the property of Isaacson & Arfman, Inc. and no part thereof shall be utilized by any person, firm or corporation for any purpose whatsoever except with the written permission of Isaacson & Arfman, Inc.

128 Monroe Street NE
Albuquerque, NM 87108
505-268-8828 | www.iacivil.com

15088
Professional Engineer
6/2/2022

Engineer 12/01/2022

TLC BATCH PLANT
705 Carmony Road NE

CONSTRUCTION DOCUMENTS

ISSUE: 1
DATE: 02/03/2023

PROJECT NUMBER: IA 2485
FILE: 1
DRAWN BY: thor
CHECKED BY: FCA
DATE: 02/03/2023

SHEET TITLE
BASIN EXHIBIT AND CALCS.

SHEET NUMBER
CG-102