



JOHNSON LANE DRAINAGE BASINS

BASIN INDEX SHEET

000000

MINDEN

[illegible]

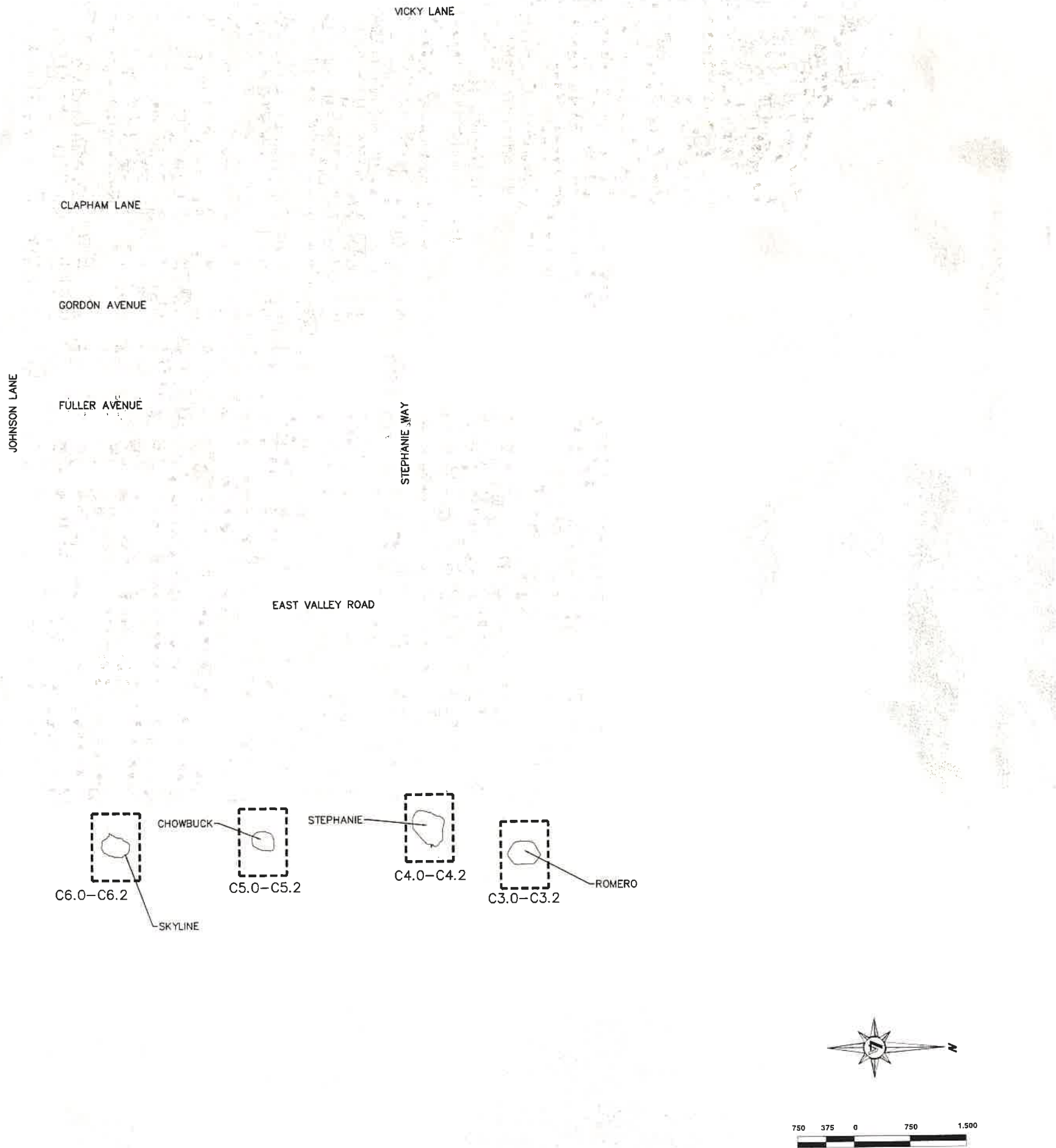
BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

1/4" = 1" ON ORIGINAL DRAWING

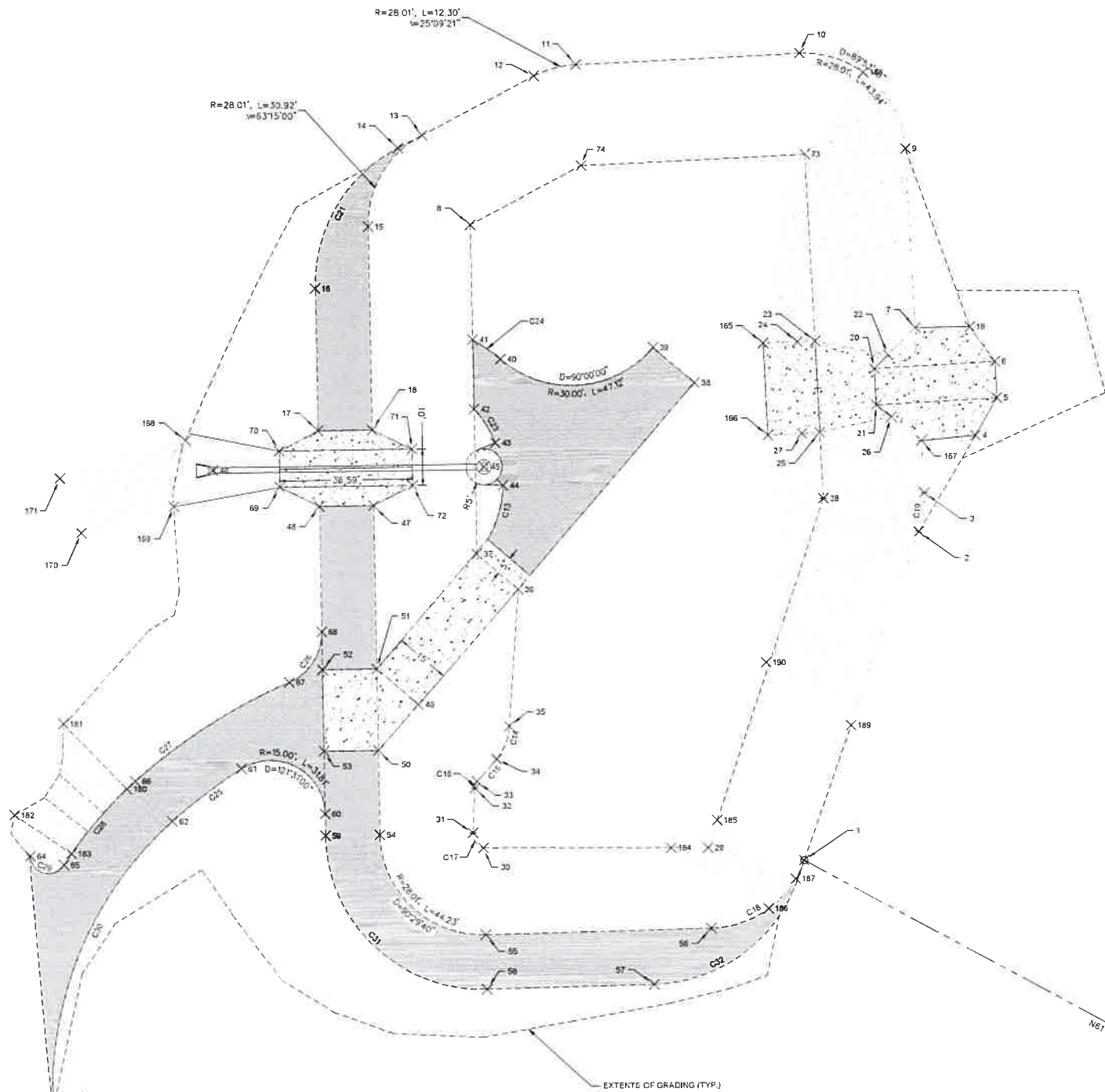
NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

C2.0

DRAWN BY IKM
DESIGNED BY IKM
CHECKED BY TLR
JOB NO. 9950 001



I:\Projects\2022\06\Johnson Lane Drainage Basins\Johnson Lane Drainage Basins.dwg (C3.0)
10/17/2022 10:27 am msh



PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
613	14675802.53	2291434.88	4704.09'	3 5" BRASS CAP USGS BM D 323
701	14691613.97	2306965.75	5000.07	REBAR & CAP
705	14688174.06	2306446.49	5015.20	REBAR & CAP
754	14690329.52	2306472.44	4976.04	REBAR & CAP
760	14686275.79	2306579.15	5000.54	600 NAIL

CONTROL (POINT 701)
14691613.97 N
2306665.75 E
5000.07' ELEV
REBAR & CAP

GRADING NOTES

1. ADD 4.900 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CONTROL POINT REFERENCE TABLE			
Point #	NORTHING	EASTING	Description
1	14691742.67	2306730.80	Top of Slope
2	14691833.10	2306763.24	Top of Slope
3	14691843.87	2306764.85	Top of Slope
4	14691859.56	2306779.14	Top of Slope
5	14691869.84	2306785.09	Edge of Concrete
6	14691879.83	2306784.59	Edge of Concrete
7	14691889.33	2306762.72	Top of Slope
8	14691818.22	2306639.63	Bottom of Slope
9	14691938.61	2306750.42	Top of Slope
10	14691965.27	2306731.18	Top of Slope
11	14691962.49	2306669.36	Top of Slope
12	14691959.30	2306657.59	Top of Slope
13	14691943.01	2306626.60	Top of Slope
14	14691939.47	2306618.89	Top of Slope
15	14691917.74	2306611.63	Top of Slope
16	14691903.68	2306596.92	Top of Slope
17	14691861.54	2306597.59	Top of Slope
18	14691861.50	2306612.59	Top of Slope
19	14691889.47	2306777.74	Top of Slope
20	14691878.19	2306751.28	Top of Slope
21	14691858.20	2306751.77	Edge of Concrete
22	14691881.90	2306755.10	Edge of Concrete
23	14691885.87	2306734.85	Bottom of Slope
24	14691885.71	2306728.85	Bottom of Slope
25	14691860.72	2306738.03	Bottom of Slope
26	14691864.87	2306755.91	Bottom of Slope
27	14691860.49	2306731.05	Bottom of Slope
28	14691842.56	2306736.88	Bottom of Slope
29	14691746.24	2306734.41	Bottom of Slope
30	14691746.46	2306642.72	Bottom of Slope
31	14691750.57	2306638.83	Bottom of Slope
32	14691762.91	2306640.31	Bottom of Slope
33	14691764.81	2306640.99	Bottom of Slope
34	14691770.95	2306646.41	Bottom of Slope
35	14691780.01	2306649.95	Bottom of Slope
36	14691817.85	2306652.52	Bottom of Slope
37	14691827.66	2306641.17	Bottom of Slope
38	14691874.63	2306701.53	Edge of Pavement
39	14691884.43	2306690.17	Edge of Pavement
40	14691881.32	2306647.86	Edge of Pavement
41	14691886.67	2306640.17	Bottom of Slope
42	14691867.62	2306640.49	Bottom of Slope
43	14691858.33	2306646.34	Bottom of Slope
44	14691846.59	2306648.45	Bottom of Slope
45	14691851.71	2306643.21	Utility Location
46	14691850.57	2306598.57	Utility Location
47	14691841.00	2306612.95	Top of Slope
48	14691840.75	2306597.95	Top of Slope
49	14691786.06	2306625.08	Edge of Concrete
50	14691773.35	2306614.11	Top of Slope

CONTROL POINT REFERENCE TABLE			
Point #	NORTHING	EASTING	Description
51	14691795.86	2306613.72	Top of Slope
52	14691795.61	2306598.72	Top of Slope
53	14691773.10	2306598.11	Top of Slope
54	14691750.05	2306614.51	Top of Slope
55	14691722.53	2306643.23	Top of Slope
56	14691724.13	2306705.16	Top of Slope
57	14691708.71	2306689.47	Top of Slope
58	14691707.53	2306643.62	Top of Slope
59	14691749.79	2306599.51	Top of Slope
60	14691755.76	2306599.40	Top of Slope
61	14691768.15	2306576.35	Edge of Pavement
62	14691753.60	2306557.35	Edge of Pavement
63	14691674.18	2306524.68	Edge of Pavement
64	14691743.93	2306518.49	Edge of Pavement
65	14691741.46	2306527.70	Edge of Pavement
66	14691764.68	2306547.23	Edge of Pavement
67	14691792.10	2306589.53	Edge of Pavement
68	14691906.11	2306598.54	Edge of Pavement
69	14691845.96	2306587.05	Edge of Pavement
70	14691855.96	2306586.89	Edge of Concrete
71	14691856.58	2306623.47	Edge of Concrete
72	14691846.58	2306623.64	Edge of Concrete
73	14691937.30	2306732.44	Edge of Concrete
74	14691934.51	2306670.62	Edge of Concrete
165	14691885.41	2306720.38	Edge of Concrete
166	14691860.05	2306721.57	Edge of Concrete
167	14691858.22	2306764.18	Edge of Concrete
168	14691858.76	2306561.04	Edge of Rip Rap
169	14691840.56	2306557.90	Edge of Rip Rap
170	14691833.24	2306532.68	Edge of Rip Rap
171	14691848.26	2306526.76	Edge of Rip Rap
180	14691762.53	2306544.95	Edge of Rip Rap
181	14691780.48	2306527.63	Edge of Rip Rap
182	14691755.30	2306514.27	Edge of Rip Rap
183	14691744.65	2306529.81	Edge of Rip Rap
184	14691746.27	2306694.40	Edge of Rip Rap
185	14691753.84	2306706.97	Edge of Rip Rap
186	14691729.43	2306720.85	Edge of Rip Rap
187	14691737.57	2306728.37	Edge of Rip Rap
188	14691959.90	2306748.98	Edge of Rip Rap
189	14691779.79	2306744.12	Edge of Rip Rap
190	14691777.34	2306720.66	Edge of Rip Rap

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	CHORD LENGTH
C13	15.67	30.00	29.93	15.49
C14	9.88	15.91	35.59	9.72
C15	8.19	104.07	4.51	8.19
C16	2.08	2.49	47.80	2.02
C17	5.39	4.14	74.68	5.02
C18	33.62	28.01	68.79	31.64
C19	10.66	28.01	22.42	10.69
C21	47.46	43.00	63.23	45.06
C22	11.04	30.00	21.08	10.56
C24	9.36	45.00	11.95	9.37
C25	23.66	136.66	9.90	23.63
C26	17.66	15.00	67.46	16.66
C27	50.64	153.66	18.88	50.41
C28	20.43	119.70	15.67	20.24
C29	12.66	5.00	145.67	6.64
C30	68.72	100.70	50.46	66.66
C31	67.83	43.01	90.49	67.00
C32	51.63	43.00	66.76	46.58



20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL. 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY

JOHNSON LANE DRAINAGE BASINS

ROMERO HORIZONTAL CONTROL PLAN

NEVADA

DOUGLAS

MINDEN

REV. DATE DESCRIPTION

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

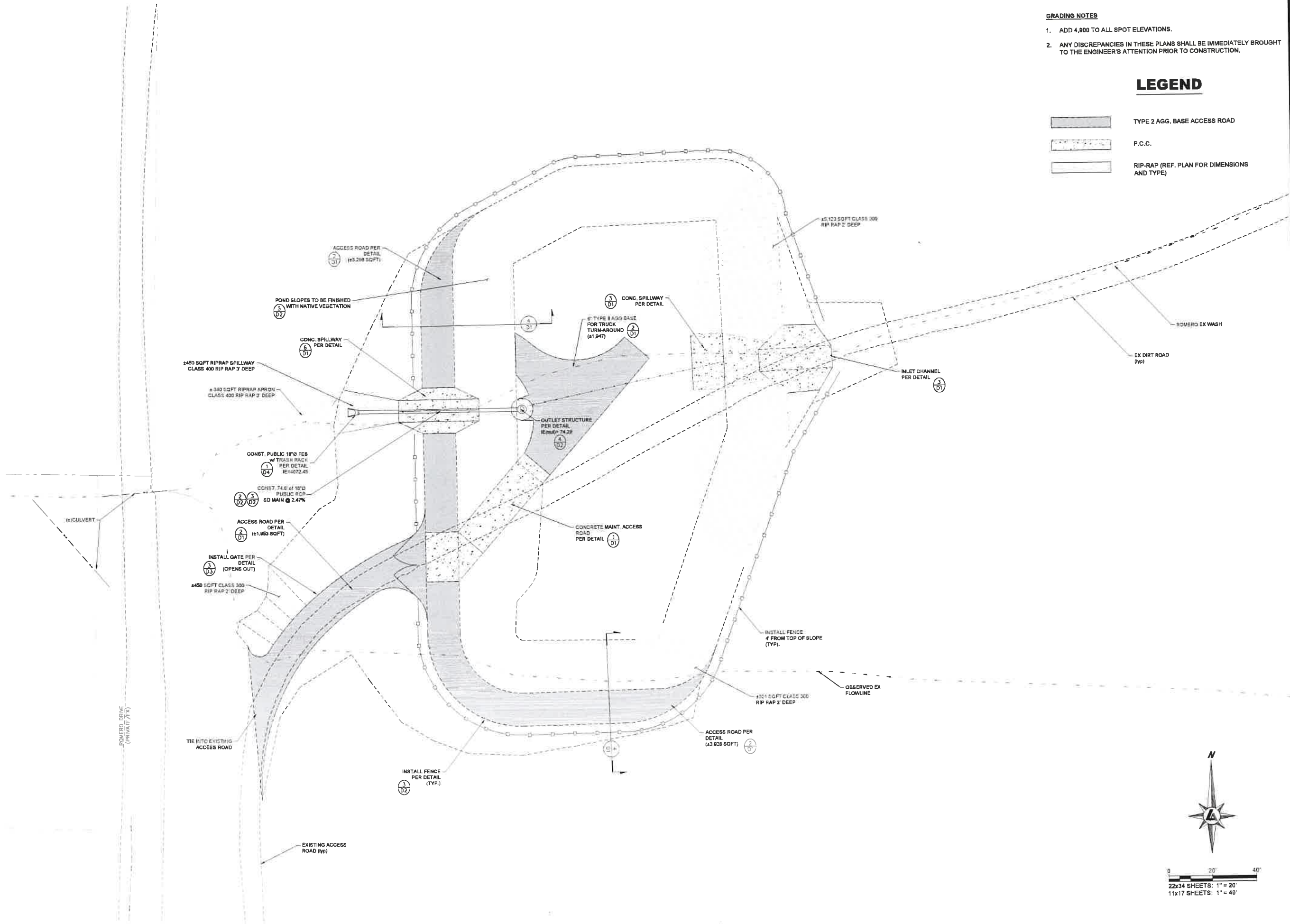
BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C3.0

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9952.001

I:\AP\09553\001 - Douglas County Johnson Lane Basin\DWG\Johnson Lane Basin\DWG\Johnson Lane Basin\DWG\C3.1.dwg, C3.1, 06/21/2022 08:27 am mshults



GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

LEGEND

- TYPE 2 AGG. BASE ACCESS ROAD
- P.C.C.
- RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.8111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS

ROMERO SITE PLAN

BY
REV
DATE
DESCRIPTION

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C3.1

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001



RIP-RAP (REF. PLAN FOR DIMENSIONS
AND TYPE)

1
02

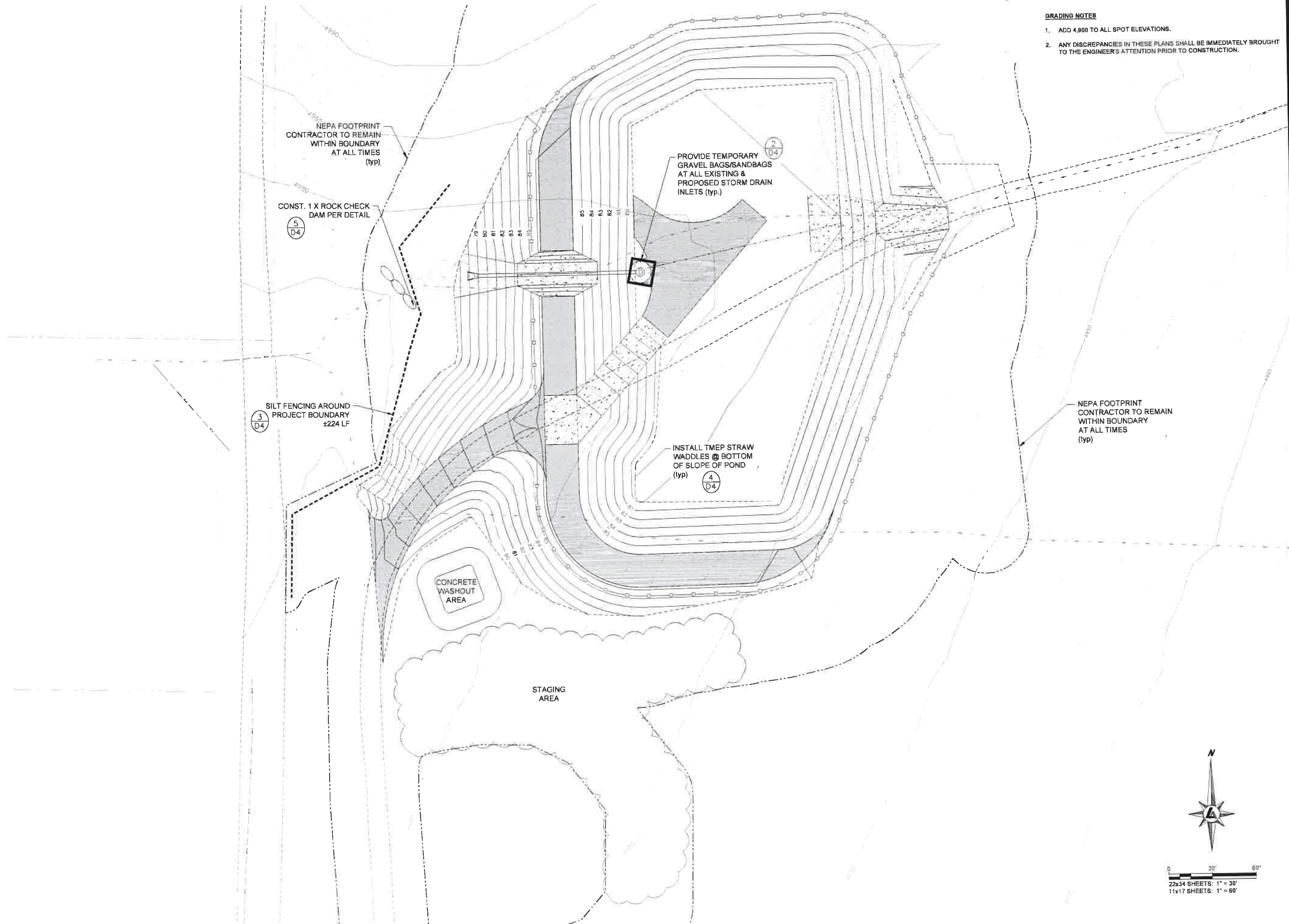
MINDEN

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

L:\AP\9953.001 - Douglas County Johnson Lane Basin\DWG\Civil\9953.000BASIS_NORTH.dwg, C3, 06/21/2022 08:27 am mshults



GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.



9222 PROTOTYPE DRIVE
RENO, NV 88521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

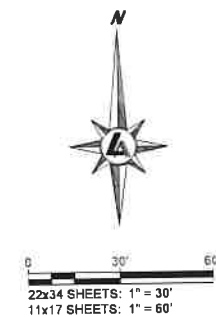
© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. NO REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS
ROMERO EROSION CONTROL PLAN
NEVADA
DOUGLAS
MINDEN

REV	DATE	DESCRIPTION

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022



BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

C3.3

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO: 9953.001

APN: 142000002013
BLM

GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

LEGEND

- TYPE 2 AGG. BASE ACCESS ROAD
- P.C.C.
- RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



8222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.927.8111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS

STEPHANIE SITE PLAN

NEVADA
DOUGLAS
MINDEN

REV	DATE	DESCRIPTION	BY

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C4.1

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

I:\APN\9953.001 - Douglas County Johnson Lane Basins\DWG\C4.1\9953.001\AKF_NORTH.dwg, C4.1, 06/21/2022 10:28 am maballs

APN: 142000002013
9LM

GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
3. RIP RAP AND FENCING NOT SHOWN FOR CLARITY.
4. CUT/FILL QUANTITIES ARE GROSS AND DON'T ACCOUNT FOR BASE / CONCRETE/RIP RAP/SHRINK/SWELL/ETC.

CUT: 5,628 YDS
FILL: 5,125 YDS
NET: 503 YDS CUT



LEGEND

TYPE 2 AGG. BASE ACCESS ROAD



P.C.C.



RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL. 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

8 LUMOS & ASSOCIATES INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



06/21/2022

NEVADA

DOUGLAS

MINDEN

JOHNSON LANE DRAINAGE BASINS

STEPHANIE GRADING PLAN

BY

DESCRIPTION

REV DATE

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C4.2

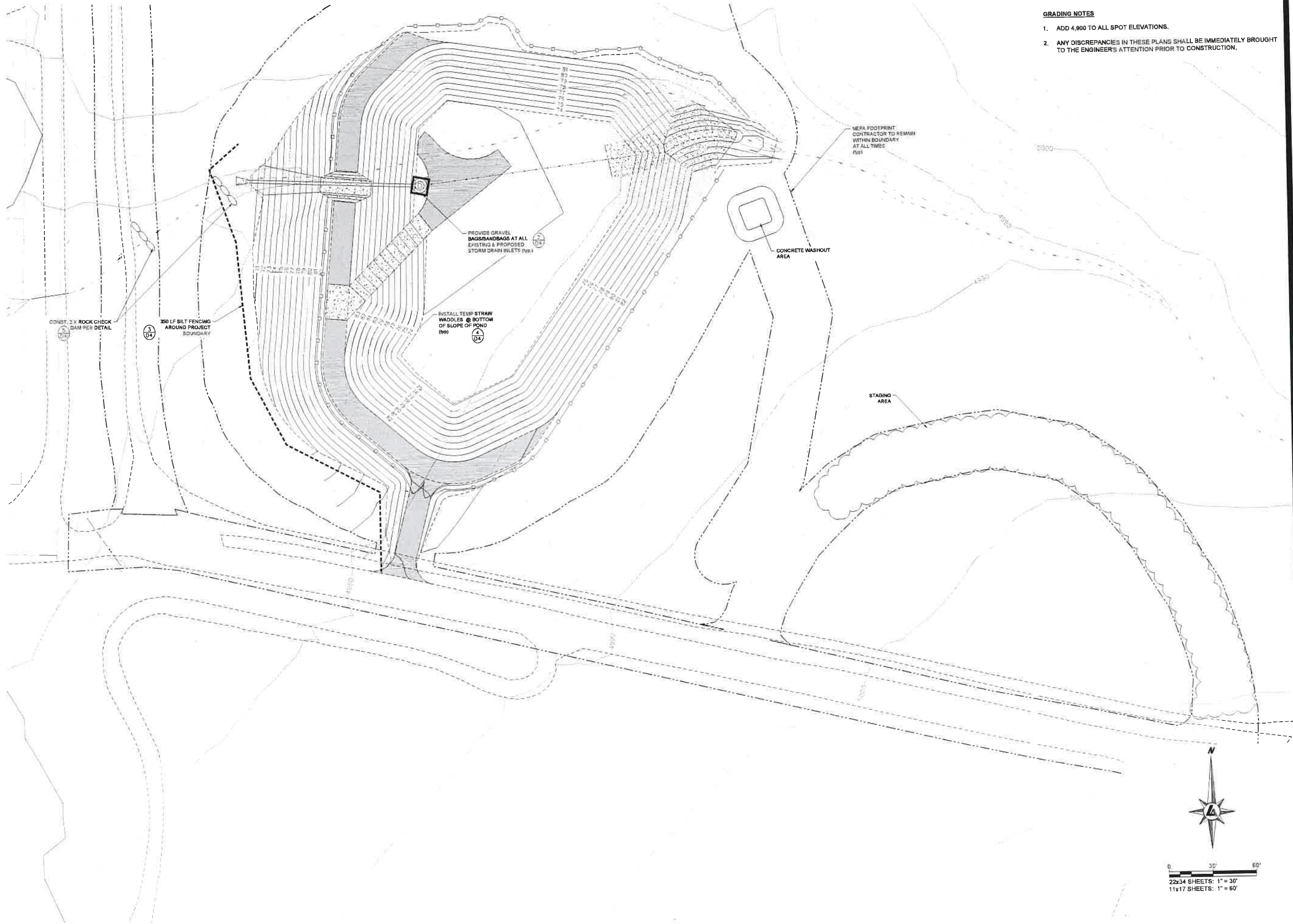
DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

I:\MINDEN\0351.001 - Douglas County Johnson Lane Basin\DWG\JOHNSON LANE DRAINAGE BASIN C4.2.dwg
06/21/2022 10:28 am ikm

L:\APR\9953.001 - Douglas County Johnson Lane Basins\JMC\Civil\9953.000\AS5_NORTH.dwg, C4.3, 06/21/2022 09:28 am mshults



GRADING NOTES

1. ADD 4,900 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.



8222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.8111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS
STEPHANIE EROSION CONTROL PLAN
NEVADA
DOUGLAS
MINDEN

REV	DATE	DESCRIPTION

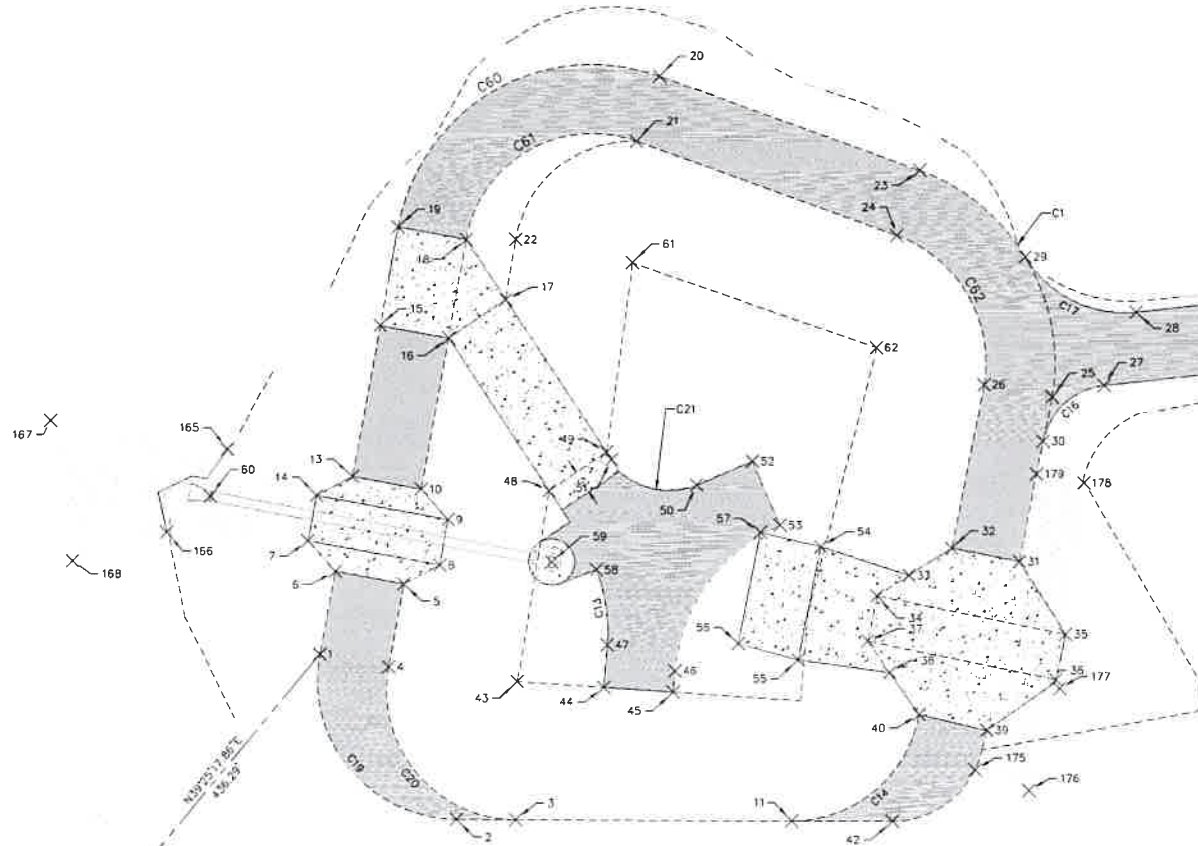
BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C4.3

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

I:\Projects\2022\22-001\22-001.dwg
15/05/2022 10:28 am
15/05/2022 10:28 am



CONTROL (POINT 705)
14688174.06 N
2306446.49 E
5015.20' ELEV
REBAR & CAP

PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
613	14675802.53	2291434.88	4704.09'	3.5" BRASS CAP USGS BM D 323
701	14691613.97	2306965.75	5000.07	REBAR & CAP
705	14688174.06	2306446.49	5015.20	REBAR & CAP
754	14690329.52	2306472.44	4976.04	REBAR & CAP
760	14686275.79	2306579.15	5000.54	60D NAIL

CONTROL POINT REFERENCE TABLE			
Point #	NORTHING	EASTING	Description
1	14688511.09	2306723.55	Top of Slope
2	14688475.38	2306752.82	Top of Slope
3	14688475.31	2306765.68	Top of Slope
4	14688508.38	2306738.30	Top of Slope
5	14688526.36	2306741.61	Top of Slope
6	14688529.07	2306726.88	Top of Slope
7	14688535.82	2306731.11	Edge of Concrete
8	14688530.42	2306749.36	Edge of Concrete
9	14688540.25	2306751.17	Edge of Concrete
10	14688546.81	2306745.37	Top of Slope
11	14688474.95	2306825.14	Top of Slope
13	14688549.53	2306730.62	Top of Slope
14	14688545.45	2306722.95	Edge of Concrete
15	14688582.13	2306736.82	Top of Slope
16	14688579.42	2306751.37	Top of Slope
17	14688587.71	2306763.87	Edge of Concrete
18	14688600.66	2306755.28	Top of Slope
19	14688603.38	2306740.52	Top of Slope
20	14688636.00	2306797.57	Top of Slope
21	14688621.91	2306792.42	Top of Slope
22	14688600.59	2306766.11	Top of Slope
23	14688615.44	2306853.89	Top of Slope
24	14688601.34	2306848.75	Top of Slope
25	14688566.31	2306882.18	Top of Slope
26	14688569.11	2306867.44	Top of Slope
27	14688568.71	2306893.47	Edge of Pavement
28	14688564.47	2306900.56	Edge of Pavement
29	14688596.57	2306876.66	Top of Slope
30	14688556.79	2306880.23	Top of Slope
31	14688530.84	2306874.92	Top of Slope
32	14688533.85	2306860.22	Top of Slope
33	14688528.04	2306850.86	Edge of Concrete
34	14688523.88	2306843.90	Edge of Concrete
35	14688515.03	2306884.72	Edge of Concrete
36	14688505.27	2306882.51	Edge of Concrete
37	14688512.89	2306841.82	Edge of Concrete
38	14688507.05	2306846.56	Edge of Concrete
39	14688494.39	2306867.51	Top of Slope
40	14688467.83	2306852.87	Top of Slope
42	14688474.82	2306846.52	Top of Slope
43	14688505.29	2306766.18	Bottom of Slope
44	14688503.98	2306784.67	Bottom of Slope
45	14688500.94	2306795.83	Bottom of Slope
46	14688507.54	2306600.21	Edge of Pavement
47	14688513.18	2306785.63	Edge of Pavement
48	14688546.58	2306773.16	Bottom of Slope
49	14688554.85	2306785.66	Bottom of Slope
50	14688547.71	2306805.07	Edge of Pavement
51	14688553.24	2306786.73	Edge of Pavement
52	14688552.82	2306817.13	Edge of Pavement

GRADING NOTES

- ADD 4,900 TO ALL SPOT ELEVATIONS.
- ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CONTROL POINT REFERENCE TABLE			
Point #	NORTHING	EASTING	Description
53	14688538.00	2306832.98	Edge of Pavement
54	14688534.32	2306831.73	Edge of Concrete
55	14688509.88	2306826.73	Edge of Concrete
56	14688513.43	2306813.84	Edge of Concrete
57	14688537.46	2306818.76	Edge of Concrete
58	14688529.44	2306783.38	Edge of Pavement
59	14688531.14	2306773.67	Utility Location
60	14688545.30	2306700.14	Utility Location
61	14688595.59	2306791.45	Bottom of Slope
62	14688577.14	2306844.18	Bottom of Slope
63	14688594.85	2307005.22	Edge of Pavement
64	14688598.07	2307040.46	Edge of Pavement
65	14688561.02	2307020.10	Edge of Pavement
66	14688577.60	2306884.86	Edge of Pavement
67	14688606.09	2307125.38	Edge of Pavement
68	14688591.10	2307125.83	Edge of Pavement
69	14688590.71	2307119.68	Edge of Pavement
70	14688605.65	2307118.22	Edge of Pavement
71	14688609.03	2307222.70	Edge of Pavement
72	14688594.09	2307224.85	Edge of Pavement
73	14688615.83	2307227.21	Edge of Pavement
74	14688584.49	2307239.30	Edge of Pavement
165	14688555.42	2306703.83	Edge of Rip Rap
166	14688537.48	2306690.75	Edge of Rip Rap
167	14688561.57	2306665.85	Edge of Rip Rap
168	14688531.29	2306670.47	Edge of Rip Rap
175	14688485.83	2306864.90	Edge of Rip Rap
176	14688481.26	2306876.55	Edge of Rip Rap
177	14688503.25	2306883.36	Edge of Rip Rap
178	14688547.64	2306888.99	Edge of Rip Rap
179	14688549.73	2306878.79	Edge of Rip Rap

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	CHORD LENGTH
C1	61.57	44.08	80.04	56.88
C13	16.55	37.50	25.28	16.41
C14	39.01	28.37	78.77	36.01
C16	19.08	15.00	72.86	17.82
C17	28.27	25.00	64.80	26.78
C18	52.69	30.00	100.82	46.18
C20	48.92	28.01	100.08	42.92
C21	17.83	15.98	114.01	16.81
C22	7.17	107.50	3.82	7.17
C23	6.17	102.50	3.82	6.17
C24	9.54	5.00	109.37	8.16
C25	18.48	15.00	70.63	17.34
C60	74.78	43.01	100.83	65.71
C61	46.70	28.01	100.83	42.79
C62	40.44	29.08	79.86	37.26



0 20' 40'
22x34 SHEETS 1" = 20'
11x17 SHEETS: 1" = 40'



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



JOHNSON LANE DRAINAGE BASINS CHOWBUCK HORIZONTAL CONTROL PLAN

REV	DATE	DESCRIPTION

BID/PERMIT SET CONSTRUCTION DOCUMENTS JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C5.0

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

APN: 142000002013
BLM

GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CUT: 1,545 YDS
FILL: 1,205 YDS
NET: 340 YDS CUT



8222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY

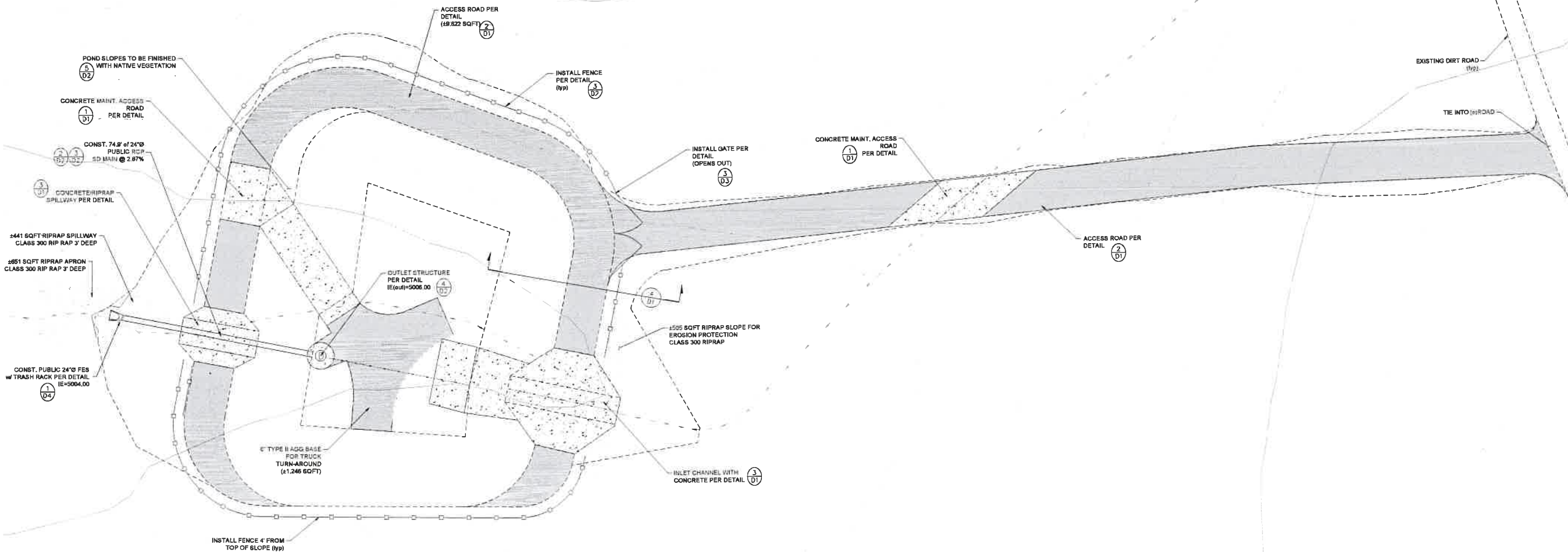
JOHNSON LANE DRAINAGE BASINS

CHOWBUCK SITE PLAN

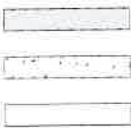
NEVADA

DOUGLAS

MINDEN



LEGEND



TYPE 2 AGG. BASE ACCESS ROAD

P.C.C.

RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

REV	DATE	DESCRIPTION

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C5.1

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9853 001

APN: 142000002013
BLM

GRADING NOTES

1. ADD 4,000 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
3. RIP RAP AND FENCING NOT SHOWN FOR CLARITY.
4. CUT/FILL QUANTITIES ARE GROSS AND DON'T ACCOUNT FOR BASE / CONCRETE/RIP RAP/SHRINK/SWELL/ETC.

CUT: 1,545 YDS
FILL: 1,205 YDS
NET: 340 YDS CUT



8222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.8111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



06.21.2022

DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS

CHOWBUCK GRADING PLAN

NEVADA

DOUGLAS

MINDEN

REV	DATE	DESCRIPTION	BY

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

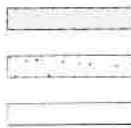
BAR IS 1 INCH ON ORIGINAL DRAWING
0 N/A

IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

C5.2

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

LEGEND



TYPE 2 AGG. BASE ACCESS ROAD
P.C.C.
RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

NEPA FOOTPRINT
CONTRACTOR TO REMAIN
WITHIN BOUNDARY
AT ALL TIMES
(typ)

SILT FENCING ③
04

CONSTR 3 X ROCK
CHECK DAM
PER DETAIL ③
04

INSTALL TEMP. STRAW
WADDLES @ BOTTOM OF
SLOPE OF POND
(typ) ④
04

PROVIDE GRAVEL
BAGS/SANDBAGS AT ALL
EXISTING & PROPOSED
STORM DRAIN INLETS (typ.) ⑦
10.4

CONCRETE
WASHOUT
AREA

STAGING AREA

SILT FENCING PROJECT
BOUNDARY ③
04

GRADING NOTES

1. ADD 4,900 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CONSTRUCTION DETAILS:

- ③ 04: SILT FENCING PROJECT BOUNDARY
- ③ 04: CONSTRUCTION 3 X ROCK CHECK DAM PER DETAIL
- ④ 04: INSTALL TEMP. STRAW WADDLES @ BOTTOM OF SLOPE OF POND (typ)
- ⑦ 10.4: PROVIDE GRAVEL BAGS/SANDBAGS AT ALL EXISTING & PROPOSED STORM DRAIN INLETS (typ.)

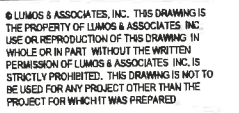
Scale and Orientation:

0 20' 40'

22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

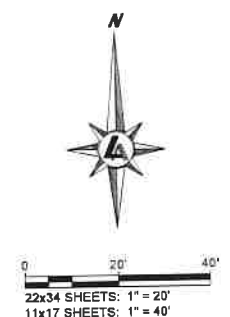
N

1. ADD 4,900 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

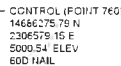
[illegible]

IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953 001



$\Delta H_{\text{f}}^{\circ} \text{ (kJ/mol)}$



PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
613	14675802.53	2291434.88	4704.09'	3.5" BRASS CAP USGS BM D 32
706	14691613.97	2306965.75	5000.07	REBAR & CAP
705	14688174.06	2306446.49	5015.20	REBAR & CAP
754	14690329.52	2306472.44	4976.04	REBAR & CAP
760	14686275.79	2306579.15	5000.54	60D NAIL

BMP NOTES

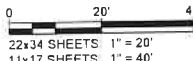
1. ALL SILT FENCING TO REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD.

Point #	NORTHING	EASTING	Description
75	14868494.86	2306861.97	Bottom of Slope
76	14868532.73	2306911.08	Bottom of Slope
77	14868611.70	2306946.76	Bottom of Slope
78	14868610.71	2306957.81	Bottom of Slope
79	14868609.01	2306976.61	Bottom of Slope
80	14868608.19	2306985.76	Bottom of Slope
81	14868502.32	2306985.50	Bottom of Slope
82	14868500.33	2306983.85	Bottom of Slope
83	14868499.73	2306975.53	Bottom of Slope
84	14868492.85	2306960.75	Bottom of Slope
85	14868474.34	2306942.67	Bottom of Slope
86	14868497.13	2306911.37	Edge of Pavement
87	14868502.09	2306912.04	Edge of Pavement
88	14868474.64	2306928.52	Edge of Pavement
89	14868474.00	2306937.58	Edge of Pavement
90	14868475.53	2306977.31	Edge of Concrete
91	14868477.60	2306994.04	Edge of Concrete
92	14868461.58	2306978.26	Edge of Concrete
93	14868459.35	2306943.63	Bottom of Slope
94	14868456.15	2306933.70	Bottom of Slope
95	14868449.93	2306913.21	Bottom of Slope
96	14868444.34	2306888.45	Bottom of Slope
97	14868438.51	2306885.09	Edge of Concrete
98	14868465.39	2306910.50	Edge of Concrete
99	14868443.18	2306884.39	Bottom of Slope
100	14868462.00	2306864.44	Bottom of Slope
101	14868466.93	2306873.52	Edge of Pavement
102	14868481.99	2306874.01	Edge of Pavement
103	14868483.50	2306862.83	Bottom of Slope
104	14868499.14	2306895.50	Edge of Pavement
105	14868504.10	2306897.17	Edge of Pavement
106	14868451.04	2306898.96	Top of Slope
107	14868467.08	2307004.73	Top of Slope
108	14868470.00	2307007.61	Top of Slope
109	14868480.93	2307011.91	Top of Slope
110	14868506.43	2307011.21	Top of Slope
111	14868605.87	2307008.48	Top of Slope
112	14868626.38	2307007.91	Top of Slope
113	14868631.01	2306985.28	Top of Slope
114	14868645.79	2306989.27	Top of Slope
115	14868645.99	2306986.29	Top of Slope
116	14868657.42	2306974.73	Edge of Concrete
117	14868658.26	2306969.79	Edge of Concrete
118	14868618.58	2306965.56	Edge of Concrete
119	14868618.26	2306970.86	Edge of Concrete
120	14868623.73	2306976.86	Edge of Concrete
121	14868624.16	2306976.36	Edge of Concrete
122	14868595.82	2306956.14	Edge of Concrete
123	14868625.64	2306960.46	Edge of Concrete
124	14868625.73	2306963.77	Edge of Concrete

CONTROL POINT REFERENCE TABLE			
Point #	NORTHING	EASTING	Description
125	14868648.58	2306954.91	Top of Slope
126	14868638.19	2306929.21	Top of Slope
127	14868547.13	2306903.94	Top of Slope
128	14868516.55	2306905.40	Top of Slope
129	14868476.36	2306822.97	Top of Slope
130	14868493.27	2306837.47	Top of Slope
131	14868458.19	2306816.45	Edge of Concrete
132	14868463.32	2306823.37	Top of Slope
133	14868466.46	2306838.29	Top of Slope
134	14868464.24	2306845.19	Edge of Concrete
135	14868454.36	2306846.82	Edge of Concrete
136	14868448.35	2306818.27	Edge of Concrete
137	14868444.41	2306826.51	Top of Slope
138	14868449.58	2306841.59	Top of Slope
139	14868424.73	2306867.33	Top of Slope
140	14868413.49	2306857.40	Top of Slope
141	14868404.64	2306895.27	Top of Slope
142	14868419.16	2306891.34	Top of Slope
143	14868420.20	2306895.34	Top of Slope
144	14868405.61	2305893.86	Top of Slope
145	14868409.26	2305938.72	Edge of Concrete
146	14868430.08	2306901.50	Edge of Concrete
147	14868432.73	2306911.15	Edge of Concrete
148	14868408.36	2306918.23	Edge of Concrete
149	14868413.09	2306926.46	Top of Slope
150	14868427.33	2306922.07	Top of Slope
151	14868419.47	2306935.07	Top of Slope
152	14868433.95	2306946.14	Top of Slope
153	14868440.82	2306957.89	Top of Slope
154	14868430.30	2306968.58	Top of Slope
155	14868439.00	2306971.44	Top of Slope
156	14868453.41	2307020.59	Top of Slope
157	14868447.67	2307304.85	Top of Slope
158	14868467.48	2307003.76	Top of Slope
159	14868515.64	2306924.49	Top of Slope
160	14868512.15	2306842.87	Top of Slope
161	14868441.25	2306837.29	Top of Slope
162	14868442.48	2306847.23	Top of Slope
163	14868459.42	2306928.98	Edge of Pavement
164	14868459.03	2306938.64	Edge of Pavement
169	14868456.14	2306776.14	Edge of Rip Rap
170	14868437.13	2306783.27	Edge of Rip Rap
171	14868438.13	2306776.14	Edge of Rip Rap
172	14868450.25	2306770.39	Edge of Rip Rap
173	14868417.46	2306749.83	Edge of Rip Rap
174	14868452.29	2306737.38	Edge of Rip Rap
175	14868403.28	2306886.99	Edge of Rip Rap
182	14868264.64	2306661.67	Edge of Rip Rap
183	14868264.64	2306661.67	Edge of Rip Rap
184	14868264.64	2306661.67	Edge of Rip Rap
185	14868264.64	2306661.67	Edge of Rip Rap
186	14868264.64	2306661.67	Edge of Rip Rap
187	14868264.64	2306661.67	Edge of Rip Rap
188	14868264.64	2306661.67	Edge of Rip Rap
189	14868264.64	2306661.67	Edge of Rip Rap
190	14868264.64	2306661.67	Edge of Rip Rap
191	14868264.64	2306661.67	Edge of Rip Rap
192	14868264.64	2306661.67	Edge of Rip Rap
193	14868264.64	2306661.67	Edge of Rip Rap
194	14868264.64	2306661.67	Edge of Rip Rap
195	14868264.64	2306661.67	Edge of Rip Rap
196	14868264.64	2306661.67	Edge of Rip Rap
197	14868264.64	2306661.67	Edge of Rip Rap
198	14868264.64	2306661.67	Edge of Rip Rap
199	14868264.64	2306661.67	Edge of Rip Rap
200	14868264.64	2306661.67	Edge of Rip Rap

Point #	NORTHING	EASTING	Description
185	14586406.51	2306923.74	Edge of Rip R
186	14586410.23	2306921.50	Edge of Rip R

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	CHORD LENGTH
C27	43.00	40.00	61.99	40.96
C28	9.09	26.01	20.02	9.04
C29	25.69	26.01	56.61	24.66
C30	12.07	15.00	46.10	11.75
C31	29.52	20.00	84.57	26.91
C34	31.42	20.00	90.00	28.28
C35	31.42	20.00	90.00	28.28
C36	7.42	37.50	11.34	7.41
C37	18.75	41.01	26.20	18.99
C39	27.95	25.01	61.59	26.63
C40	35.10	26.01	77.34	32.50
C41	37.33	26.01	82.25	34.21
C42	20.92	35.01	48.10	20.36
C44	2.99	2.00	85.65	2.72
C45	16.66	23.00	41.50	16.30
C48	40.52	41.91	56.61	38.89
C55	13.76	26.63	29.60	13.60
C63	74.3	19.20	22.18	77.39
C64	10.02	48.14	11.93	10.00
C65	21.70	41.01	30.32	21.45
C66	19.30	52.50	11.34	19.32



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY

JOHNSON LANE DRAINAGE BASINS

SKYLINE HORIZONTAL CONTROL PLAN

[illegible]

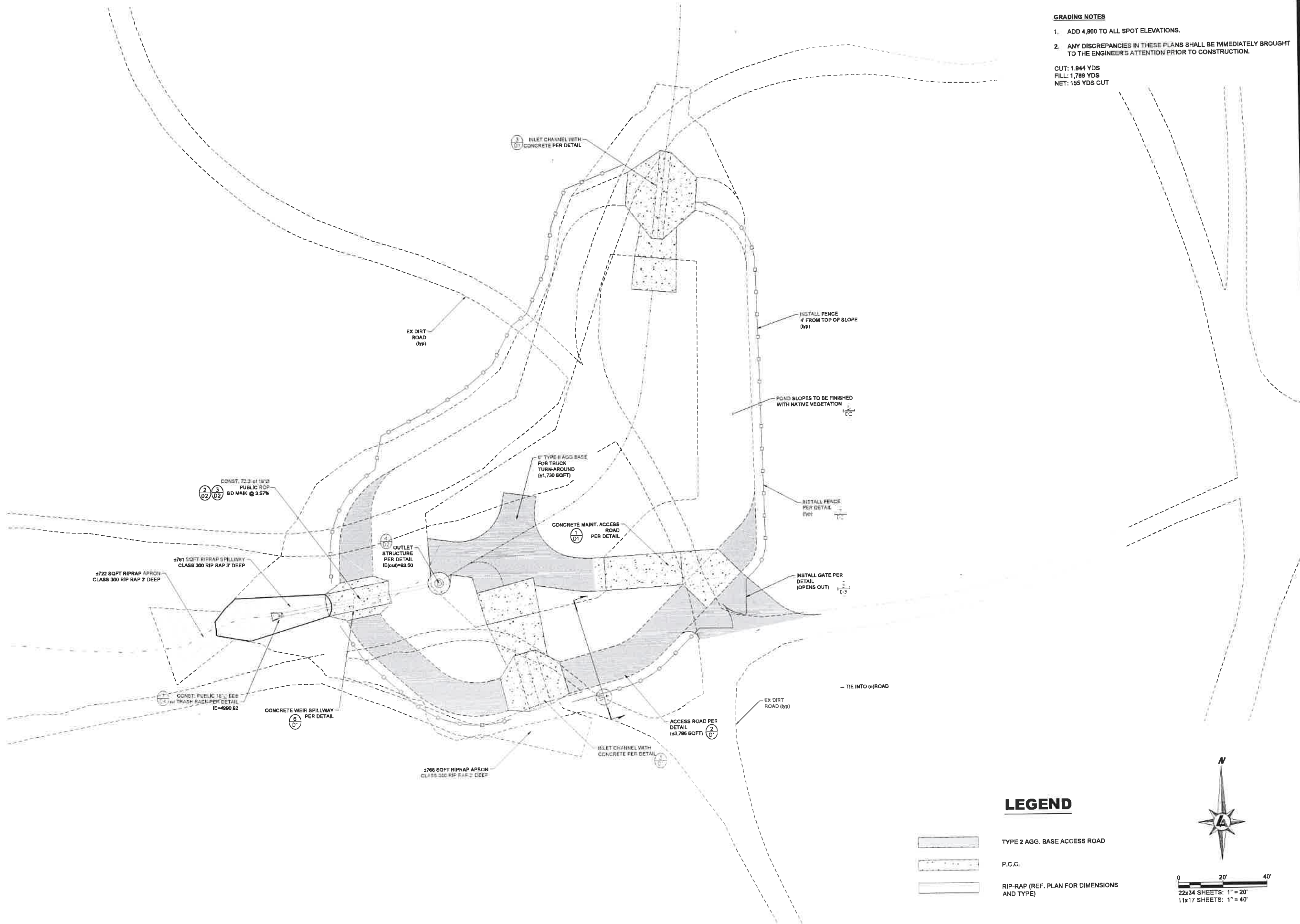
BAR IS 1 INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET

C6.0

DRAWN BY: IK
DESIGNED BY: IK
CHECKED BY: T
JOB NO.: 9953.0

I:\Lumos\9953.001 - Douglas County Johnson Lane Basins\DWG\Johnson Lane Basins\9953.000BASE_SOUTH.dwg, 05/21/2022 09:28 am mshults



GRADING NOTES

1. ADD 4,800 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.

CUT: 1,944 YDS
FILL: 1,789 YDS
NET: 155 YDS CUT

LEGEND

- TYPE 2 AGG. BASE ACCESS ROAD
- P.C.C.
- RIP-RAP (REF. PLAN FOR DIMENSIONS AND TYPE)



0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY
JOHNSON LANE DRAINAGE BASINS
SKYLINE SITE PLAN
NEVADA
DOUGLAS
MINDEN

REV	DATE	DESCRIPTION	BY

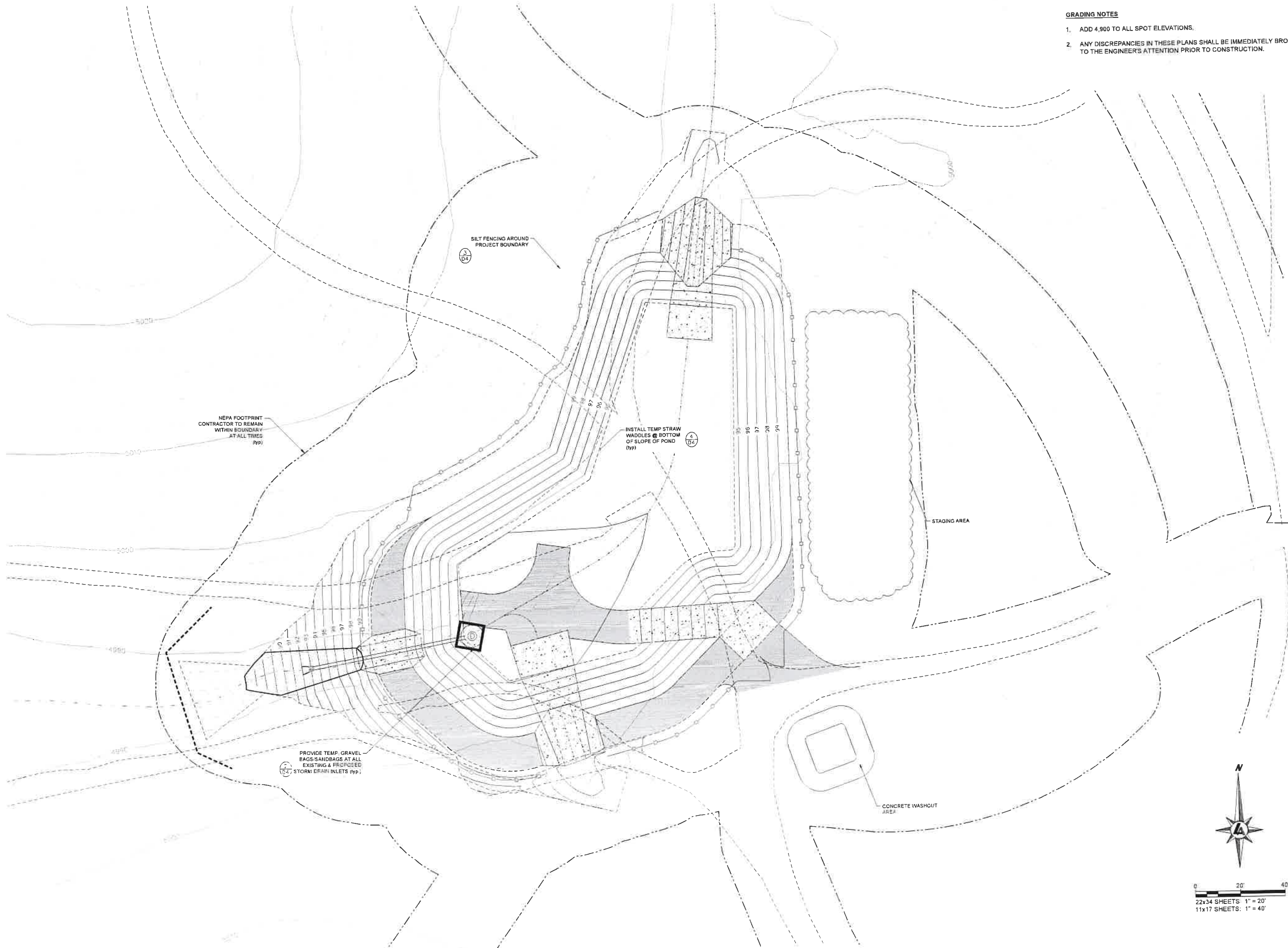
BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

C6.1

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

\\APR\proj\1001 - Douglas County Johnson Lane Basin\DWG\1001\1001.dwg 16/21/2022 03:28 am mshalls



GRADING NOTES

1. ADD 4,900 TO ALL SPOT ELEVATIONS.
2. ANY DISCREPANCIES IN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.8111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. NO REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



06/21/2022

DOUGLAS COUNTY

JOHNSON LANE DRAINAGE BASINS

SKYLINE EROSION CONTROL PLAN

NEVADA

DOUGLAS

MINDEN

REV	DATE	DESCRIPTION	BY

BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

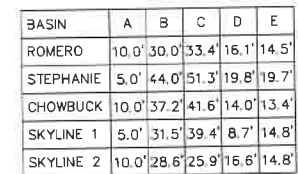
BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

C6.3

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001





9222 PROTOTYPE DRIVE
RENO NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



DOUGLAS COUNTY

JOHNSON LANE DRAINAGE BASINS

DETAILS

Sweden

MINDEN

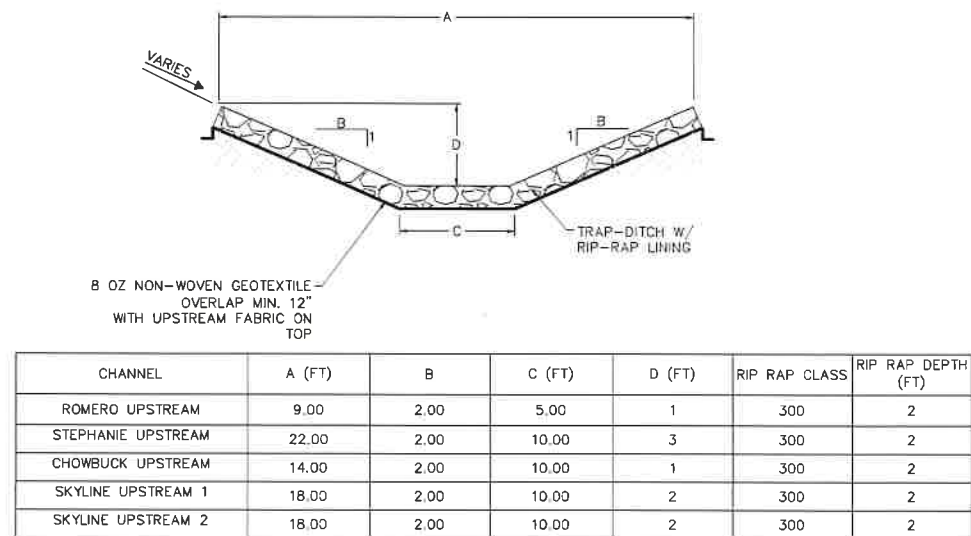
BID/PERMIT SET
CONSTRUCTION DOCUMENTS
JUNE 2022

BAR IS 1 INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET

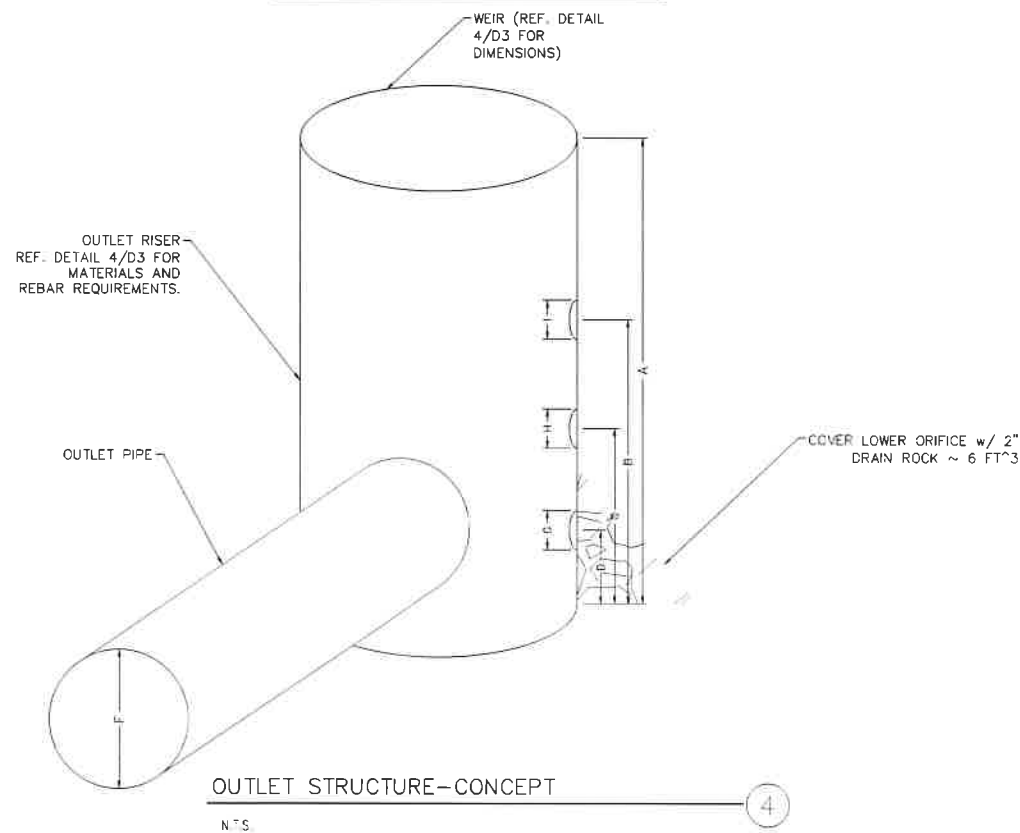
D1

DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953.001

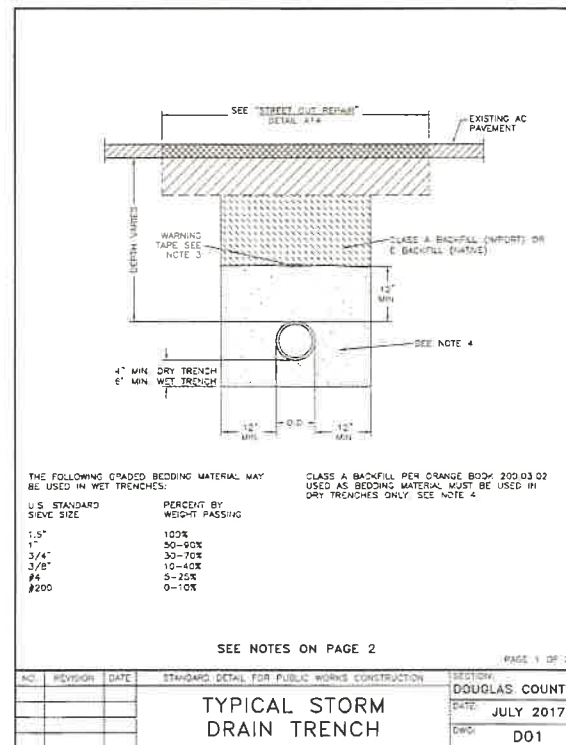


MINOR CHANNEL W/ RIPRAP LINING SECTION VIEW

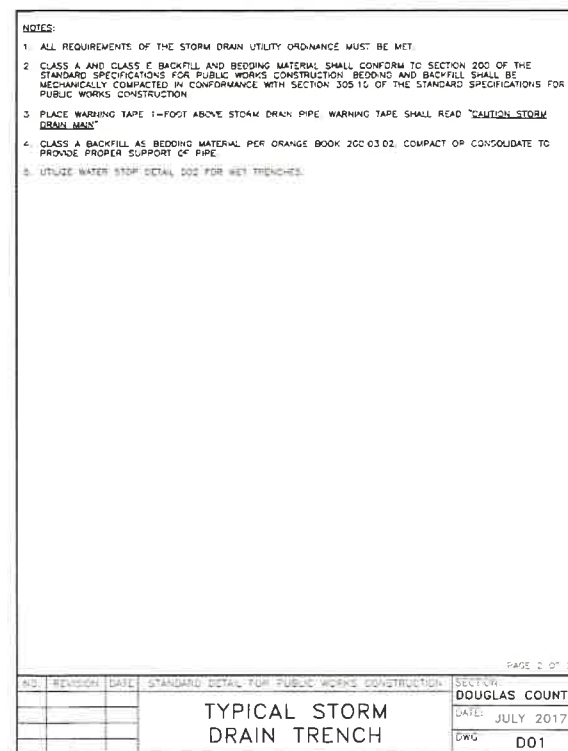
BASIN	A	B	C	D	F	G	H	I
ROMERO	3.8'	3'	2'	1 ³	18"	2"	2"	2"
STEPHANIE	7"	3'	2'	1 ³	24"	2"	2"	2"
CHOWBUCK	4.8'	3'	2'	1 ³	18"	2"	2"	2"
SKYLINE	4'	3'	2'	1 ³	18"	2"	2"	2"



NFS



TYPICAL STORM DRAIN TRENCH (1/2) 2



TYPICAL STORM DRAIN TRENCH (2/2)

REVEGETATION SEED MIXTURE		
BOTANICAL NAME	COMMON NAME/VARIETY	PLS lbs./acre
AHILLEA MILLEFOLIUM	YARROW	0.25
ACHNATHERUM OCCIDENTALIS	WESTERN NEEDLEGRASS	1.00
ARTEMISIA TRIDENTATA SSP. VASEYANA	MTN. SAGEBRUSH	0.50
BROMUS CARINTUS	CALIFORNIA BROME	4.00
ELYMUS ELYMOIDES	BLUE WILDRYE 'STANISLAUS'	4.00
ELYMUS TRACHYCAULUS	SLENDER WHEATGRASS, 'PRYOR'	6.00
ERICAMERIA NAUSEOSA	RUBBER RABBITBRUSH	1.00
POA SECUNDA	SANDBERG BLUEGRASS 'SHERMAN'	2.00
PURSHIA TRIDENTATA	BITTERBRUSH	3.00
	TOTAL	21.70

REVEGETATION SPECIFICATIONS:

1. GENERAL

CONTRACTORS SHALL LOCATE AND STAKE TREATMENT BOUNDARIES. THE LANDSCAPE ARCHITECT AND ALL OTHERS OR THEIR REPRESENTATIVE SHALL APPROVE CONTRACTORS STAKING PRIOR TO PROGRESSING WITH THE WORK. FENCE THE ENTIRE AREA TO BE DISTURBED WITH SAFETY FENCING. STORE ALL MATERIAL AND EQUIPMENT ON HARD SURFACE AREAS OUTSIDE OF THE EXISTING SHOWN ON THE PLANS. THERE SHALL BE NO PAY ITEM OR CLAIM FROM THE CONTRACTOR FOR THEIR RESTORATION OF DISTURBED AREAS BEYOND THOSE DESIGNATED ON THE PLANS AND IN THE FIELD.

THE REVEGETATION WORK SHALL CONSIST OF APPLICATION OF SOIL STRIPPING AND GRINDINGS, SOIL, SEEDING AND APPLICATION OF WOOD FIBER MULCH WITH TACKIFIERS.

LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE WILL INSPECT MATERIALS AND WORKMANSHIP THROUGHOUT THE PROJECT.

2. TREATMENTS

APPLY SEED, WOOD FIBER AND TACKIFIER AS SPECIFIED BELOW. ALL SEEDING TO TAKE PLACE AFTER NOVEMBER 15TH

3. SUBMITTALS

SUBMIT THE FOLLOWING MATERIAL SAMPLES OR LABELS AND RATES OR QUANTITIES OF APPLICATION FOR ACCEPTANCE BY THE LANDSCAPE ARCHITECT OR THEIR REPRESENTATIVE:

- SEED (SAMPLES, TAGS, LOT TEST RESULTS)
- WOOD FIBER MULCH
- TACKIFIER
- HYDRO GEL CRYSTALS--FINN HYDRO GEL B, OR EQUIVILANT

4. MATERIALS

A. SEED

ALL SEED SHALL CONFORM WITH THE LAWS AND REGULATIONS PERTAINING TO THE SALE AND SHIPMENT OF SEED REQUIRED BY THE NEVADA STATE DEPARTMENT OF AGRICULTURE AND THE FEDERAL SEED ACT. DELIVER SEED TO THE SITE TAGGED AND LABELED IN ACCORDANCE WITH THE STATE AGRICULTURE CODE AND ACCEPTABLE TO THE COUNTY AGRICULTURE COMMISSION.

WEED SEED SHALL NOT EXCEED 0.25 PERCENT OF THE PURE LIVE SEED AND INERT MATERIAL AND SHALL NOT INCLUDE ANY SEED OF CHEATGRASS, (BROMES TECTORUM) OR SWEET CLOVER (MELILITUS OFFICINALIS, W. ALBA). CROP SEED SHALL NOT EXCEED .50 PERCENT UNLESS OTHERWISE APPROVED. INDIVIDUAL SEED TEST RESULTS, BY SPECIES, AND LOT NUMBER SHALL BE PROVIDED 30 DAYS PRIOR TO COMMENCING THE WORK PRIOR TO ACCEPTANCE AND BEFORE SEED IS BLENDED. ALL SEED IS SUBJECT TO INSPECTION AND TAGS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT OR THEIR REPRESENTATIVE FOR APPROVAL AND ACCEPTANCE. SPECIES AND/OR VARIETIES MAY ONLY BE SUBSTITUTED UPON THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT OR THEIR REPRESENTATIVE.

IMMEDIATE EROSION CONTROL SHALL BE ACCOMPLISHED BY THE USE OF A NURSE GRASS CROP WHICH WILL PROVIDE 50% COVERAGE IN THE FIRST YEAR OF GROWTH. NURSE GRASS CROP MUST BE A MINIMUM OF 15% ON THE OVERALL SEED BLEND.

B. WOOD FIBER MULCH

WOOD FIBER MULCH SHALL CONSIST OF DEGRADABLE GREEN DYED WOOD CELLULOSE FIBER, 100% RECYCLED LONG FIBER PULP, AND SHALL BE FREE FROM WEEDS OR OTHER FOREIGN MATTER.

MATERIAL SHALL BE OF AN ORGANIC, PLANT DERIVED SUBSTANCE CONTAINING PSYLLIUM, GUAR GUM, OR CORNSTARCH SUCH AS PT-TAC, SUPERTAK RECLAMARE2400,M-BINDER, ECO-TAK, FISCH-STICK, OR APPROVED EQUAL. MATERIAL SHALL FORM A TRANSPARENT 3-DIMENSIONAL FILM LIKE CRUST PERMEABLE TO WATER AND AIR AND CONTAINING NO AGENTS TOXIC TO SEED GERMINATION.

5: IMPLEMENTATION

A. BROADCAST SEEDING

AFTER STAKING THE CLEARING LIMITS CONTRACTOR TO CLEAR AND GRINDING THE EXISTING VEGETATION WITH A BRUSH HOG, STOCKPILE THE MATERIAL IN A PAVED OR CLEARED AREA. CONTRACTOR TO THEN STRIP THE TOP 4" OF ROOTS AND TOPSOIL AND STOCKPILE THE MATERIAL WITH CLEARED VEGETATION PILE. MIX BOTH MATERIALS COMPLETELY. CONTRACTOR TO THEN RE-APPLY STRIPPINGS TO THE AREAS SHOWN ON THE LANDSCAPE PLANS. SEEDED AREAS TO BE COMPACTED TO NO GREATER THAN 90% AND LEFT IN A ROUGHENED CONDITION, WITH ANY SITE BOULDERS LEFT IN THE BERM AREA. RE-APPLY THE STRIPPING AND TOPSOIL, AND THEN SPREAD EVENLY. FOLLOW WITH AN APPLICATION OF SPECIFIED SEED AND 1/2 OF THE HYDRO MULCH MATERIAL (250 LBS PER ACRE). FOLLOW WITH THE SECOND PASS OF THE REMAINING HYDRO MULCH MATERIAL. APPLY A TACKIFYER AS SPECIFIED TO HOLD THE SEED BED IN PLACE, AT THE SPECIFIED RATE. SEED MUST NOT BE LEFT UNCOVERED MORE THAN 24 HOURS UNLESS OTHERWISE APPROVED. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW THE SEED TO BECOME WIND BORNE. THE SECOND PASS TO APPLY WOOD FIBER MULCH USING 3,000 LBS./ACRE HYDRO STRAW AND 150 LBS./ACRE PSYLLIUM TACKIFYER.

B.GUAR TACKIFIER

MIX TACKIFIER IN A TANK EQUIPPED WITH AN AGITATOR SO A UNIFORM SUSPENSION IS ACHIEVED. APPLY THE SLURRY WITHIN 30 MINUTES OF MIXING. SEVERAL PASSES MAY BE REQUIRED TO ACHIEVE THE SPECIFIED RATES. CONTRACTOR TO PROVIDE TRAFFIC CONTROL WITH TEMPORARY FENCING TO KEEP ALL VEHICULAR AND PEDESTRIAN TRAFFIC OFF THE SITE AFTER APPLYING TACKIFIER.

MAINTENANCE-- CONTRACTOR SHALL MAINTAIN THE TREES AND SEEDED AREA ON THE BERM FOR A PERIOD OF 1 YEAR. MAINTENANCE SHALL CONSIST OF WEEDING THE SEEDED BERM AREA, TRASH AND DEBRIS REMOVAL, WATERING TREES, REPAIRING RABBIT FENCING, WEEDING AND RE--MULCHING TREE PITS, REMAKING BERMS AND REPLACING ANY DEAD TREES DURING THE MAINTENANCE PERIOD. CONTRACTOR SHALL MAINTAIN THE PROTECTIVE FENCE FOR THE 1 YEAR PERIOD. WATER TREES A MINIMUM OF 3 TIMES DURING THE FIRST GROWING SEASON.

6. GAURANTEE

FOR REVEGETATED AREAS COVERED BY TEMPORARY IRRIGATION (IF PROVIDED), CONTRACTOR SHALL GUARANTEE SEED GERMINATION OF NO LESS THAN 50% AND ADEQUATE COVERAGE ACHIEVED IN THE FIRST YEAR. FOR AREAS NOT TEMPORARILY IRRIGATED, CONTRACTOR SHALL GUARANTEE 20% COVERAGE IN THREE YEARS. CONTRACTOR SHALL RE-APPLY SEEDING TREATMENT IN AREAS OF COVERAGE-FAILURE AS NEEDED.

SEED MIX DETAIL AND SPECIFICATIONS

NTS



8222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

© LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.



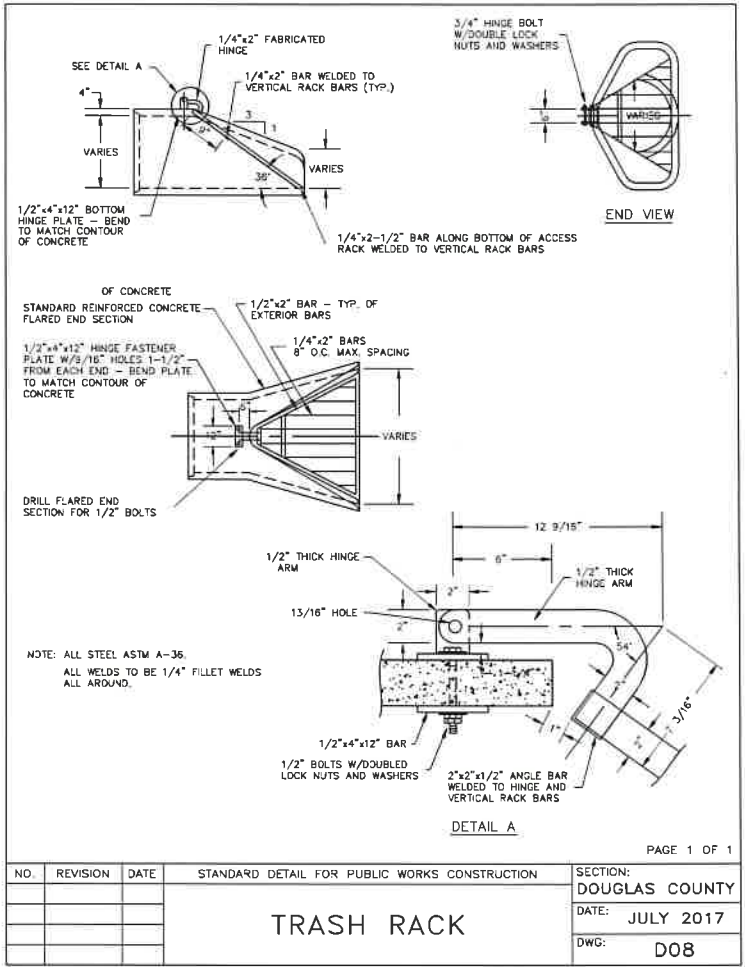
WINDEN	DOUGLAS	NEVADA
--------	---------	--------

[illegible]

BAR IS 1 INCH ON
ORIGINAL DRAWING
0 N/A
IF NOT ONE INCH ON THIS SHEET
ADJUST SCALES ACCORDINGLY

D2

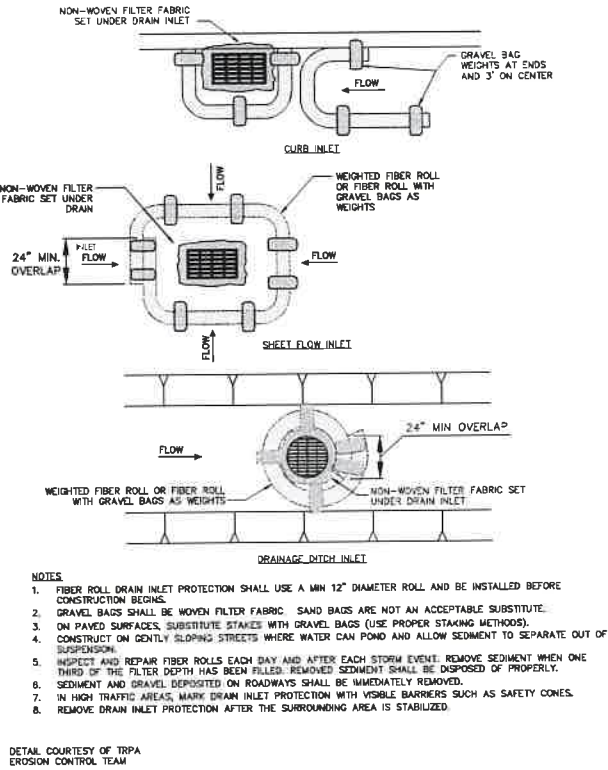
DRAWN BY: IKM
DESIGNED BY: IKM
CHECKED BY: TLR
JOB NO.: 9953 001



TRASH RACK

N.T.S.

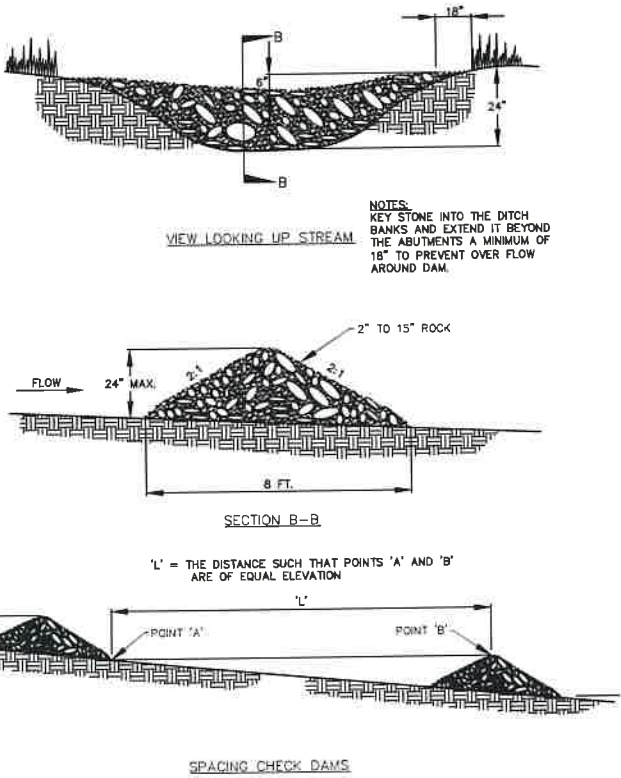
1



INLET PROTECTION

N.T.S.

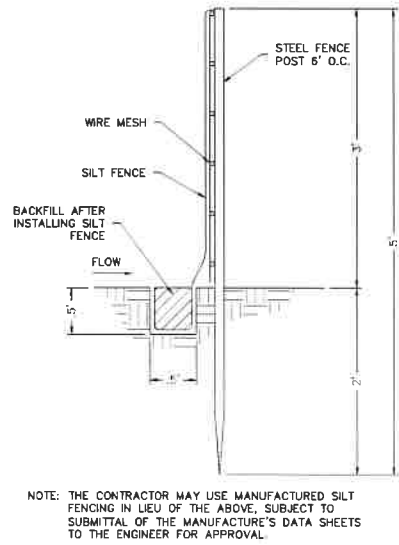
2



CHECK DAM DETAIL

N.T.S.

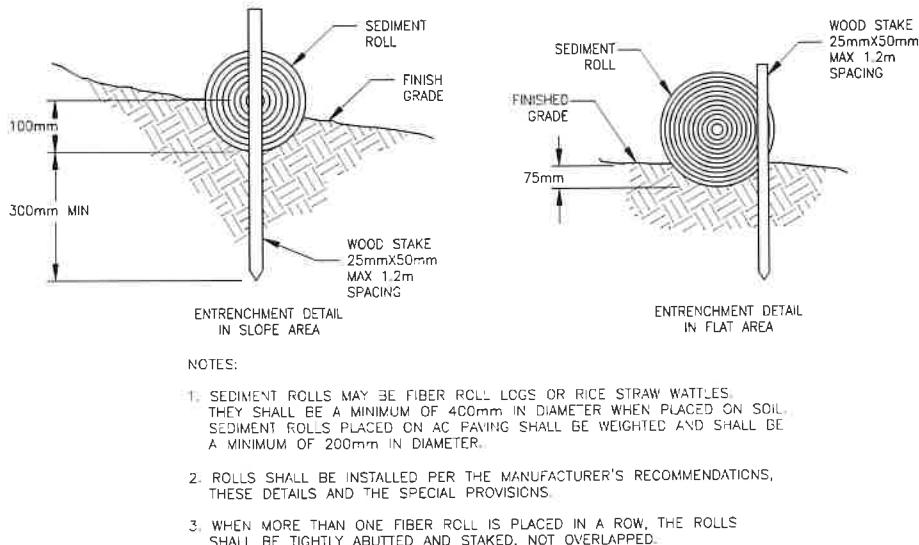
5



SILT FENCE

N.T.S.

3



SEDIMENT ROLL DETAIL

N.T.S.

4