CHALLENGER COMMUNITIES, LLC
BENT GRASS RESIDENTIAL FILING NO. 2
BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD - FALCON, CO
FINAL GRADING & EROSION CONTROL PLANS

SF-19-014
EGP-19-005

PROJECT CONTACTS

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EL PASO COUNTY
EL PASO COUNTY, PLANNING & COMMUNITY DEVELOPMENT
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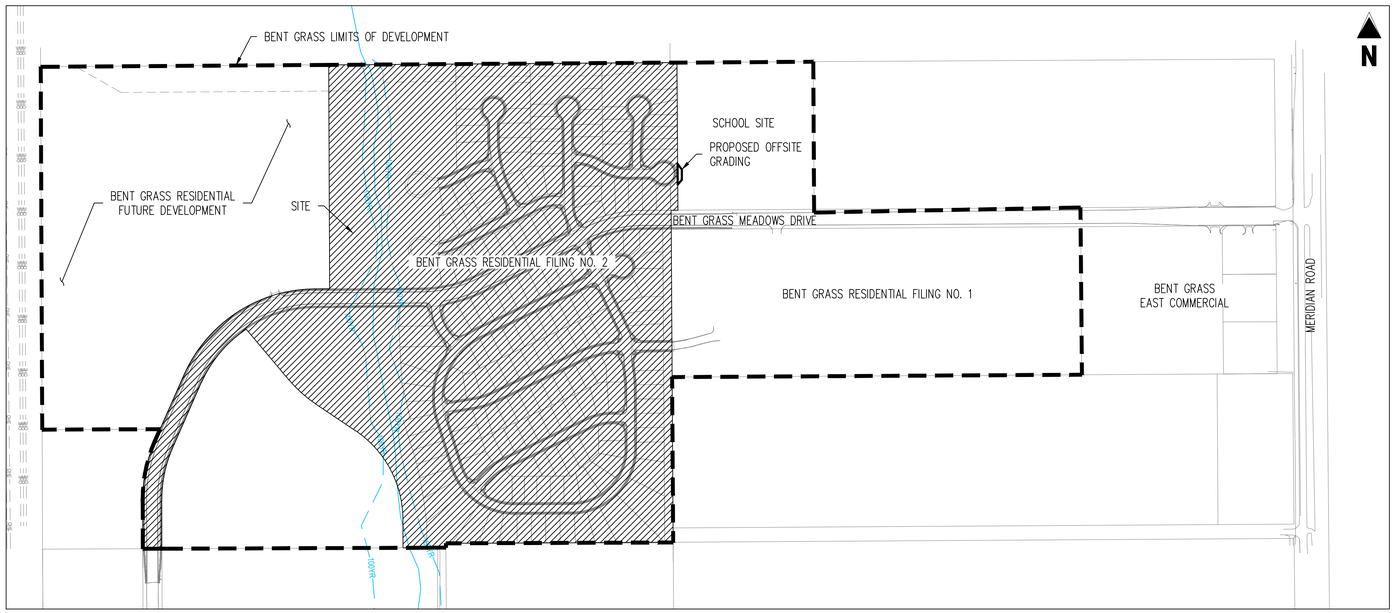
FIRE DISTRICT
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN ROAD
PEYTON, COLORADO 80831
TEL: (719) 495-4050
EMAIL: FALCONFIRE@FALCONFIREPD.ORG



SITE MAP
SCALE: 1"=300'

VICINITY MAP
1"=2,000'

Engineering Review
04/08/2020 2:05:28 PM
dsdrice
JeffRice@elpasoco.com
(719) 520-7877
EPC Planning & Community Development Department

SHEET INDEX

SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
1	COVER SHEET	G0.01
2	NOTES	G0.02
3	TYPICAL ROADWAY SECTIONS AND LOT TEMPLATES	G0.03
4	INITIAL OVERALL EROSION CONTROL PLAN	G1.00
5	INTERIM OVERALL GRADING & EROSION CONTROL PLAN	G2.00
6	INTERIM GRADING & EROSION CONTROL PLAN	G2.01
7	INTERIM GRADING & EROSION CONTROL PLAN	G2.02
8	INTERIM GRADING & EROSION CONTROL PLAN	G2.03
9	INTERIM GRADING & EROSION CONTROL PLAN	G2.04
10	INTERIM GRADING & EROSION CONTROL PLAN	G2.05
11	FINAL OVERALL GRADING & EROSION CONTROL PLAN	G3.00
12	CUT AND FILL AREAS	G4.00
13	DRAINAGE SWALE DETAILS	G5.01
14	STORM SEWER OUTFALL DETAILS	G5.02
15	WATER QUALITY DETENTION POND (NORTH)	G6.01
16	POND DETAILS (NORTH)	G6.02
17	WATER QUALITY DETENTION POND (SOUTH)	G6.03
18	POND DETAILS (SOUTH)	G6.04
19	WATER QUALITY DETENTION POND (POND WU)	G6.05
20	POND WU DETAILS	G6.06
21	GRADING & EROSION CONTROL DETAILS	G7.01
22	GRADING & EROSION CONTROL DETAILS	G7.02
23	GRADING & EROSION CONTROL DETAILS	G7.03
24	GRADING & EROSION CONTROL DETAILS	G7.04
25	GRADING & EROSION CONTROL DETAILS	G7.05
26	GRADING & EROSION CONTROL DETAILS	G7.06

SEE BENT GRASS RESIDENTIAL FILING NO. 2 CONSTRUCTION PLANS FOR PUBLIC AND PRIVATE ROADWAY IMPROVEMENTS

SEE BENT GRASS RESIDENTIAL FILING NO. 2 UTILITY CONSTRUCTION PLANS FOR WATER AND SANITARY IMPROVEMENTS

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY AN NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

RONALD G. DENNIS, COLORADO P.E. NO. 0051622 DATE

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

LEE EISENHEIM DATE
CHALLENGER COMMUNITIES, LLC

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. DATE
COUNTY ENGINEER / ECM ADMINISTRATOR

LEGAL DESCRIPTION

BENT GRASS RESIDENTIAL FILING NO. 2. LOCATED IN THE NORTHWEST QUARTER AND SOUTHWEST QUARTER OF SECTION 1 T13S R65W OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

BASIS OF BEARINGS

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE BEARING OF THE LINE BETWEEN THE SOUTHWEST CORNER OF SECTION 1, T13S, R65W AND THE WEST QUARTER CORNER SECTION 1, T13S, R65W IS N00°13'46"W AND MONUMENTED AS SHOWN:

BENCHMARK

THE SOUTHWESTERLY CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4. MONUMENTED BY A YELLOW PLASTIC SURVEYORS CAP ON A NO. 4 REBAR LS# 24954 ELEVATION = 6947.67

CAUTION – NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's below. Call before you dig.

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CHALLENGER HOMES

FINAL GRADING & EROSION CONTROL PLANS
BENT GRASS RESIDENTIAL FILING NO. 2
FOR
CHALLENGER COMMUNITIES, LLC.

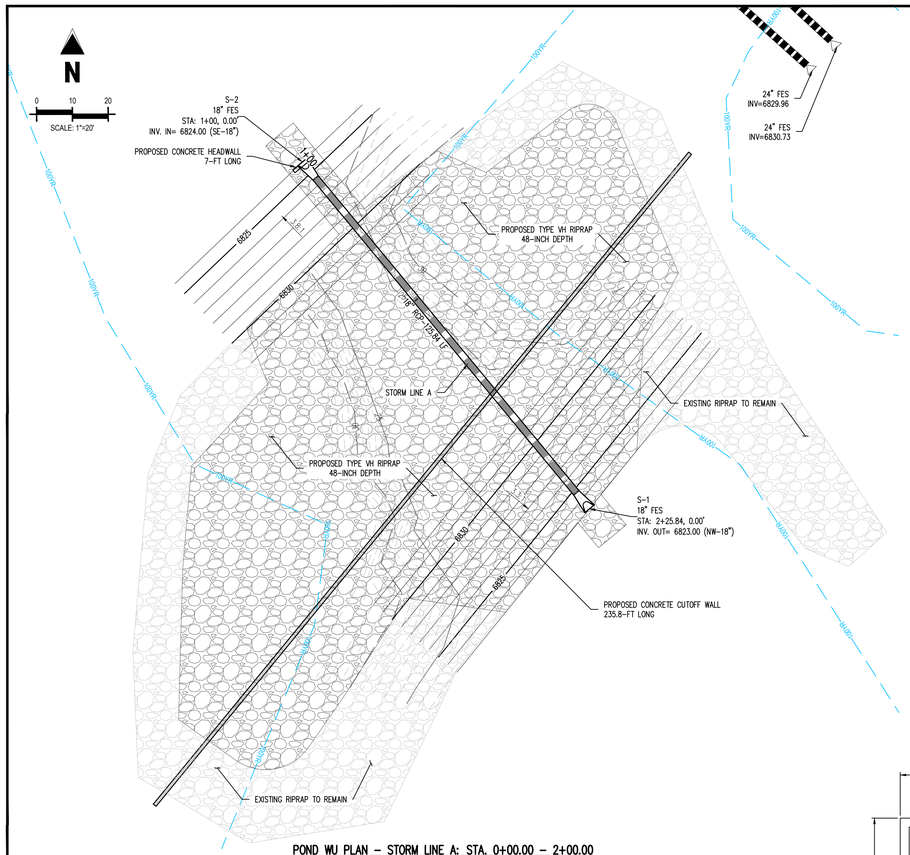
BENT GRASS MEADOWS DRIVE & MERIDIAN ROAD
FALCON, CO 80831 - EL PASO COUNTY

#	Date	Issue / Description	Init.

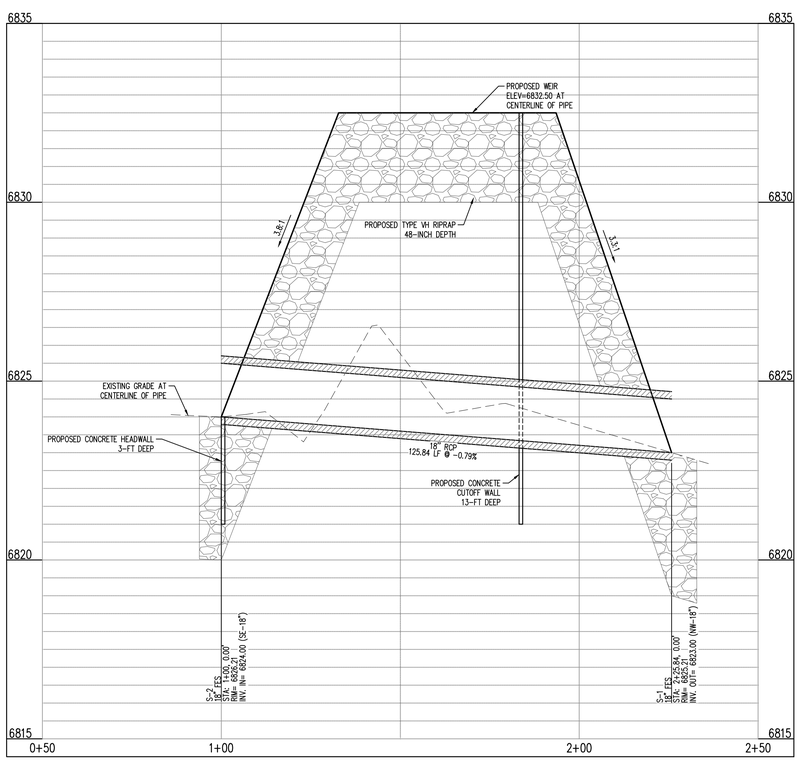
Project No:	CLH000014.20
Drawn By:	JDP
Checked By:	RGD
Date:	3/29/2020

COVER SHEET

G0.01

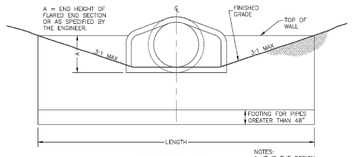


POND WU PLAN – STORM LINE A: STA. 0+00.00 – 2+00.00



POND WU PROFILE – STORM LINE A: STA. 0+00.00 – 2+00.00

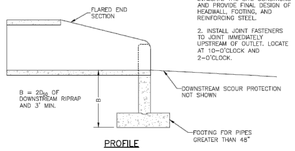
SCALE: H:1"=20', V:1"=10'



ELEVATION VIEW

NOTES:
1. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO EVALUATE THE SITE CONDITIONS AND PROVIDE FINAL DESIGN OF HEADWALL, FOOTING, AND REINFORCING STEEL.

2. INSTALL JOINT FASTENERS TO JOINT IMMEDIATELY UPSTREAM OF OUTLET. LOCATE AT 10-O'CLOCK AND 2-O'CLOCK.



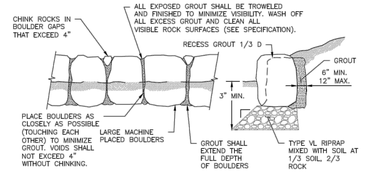
PROFILE

HEADWALL DESIGN TABLE

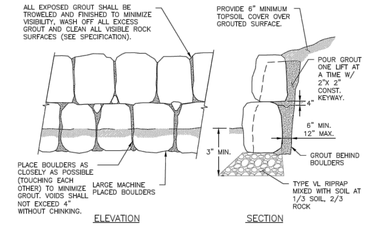
PIPE SIZE	LENGTH, MIN
18"	7'-0"
24"	8'-0"
30"	10'-0"
36"	12'-6"
42"	15'-9"
48"	17'-8"
54"	19'-8"
60"	21'-6"
66"	22'-6"
72"	24'-0"

FLARED END SECTION (FES) HEADWALL DETAIL

Figure 9-29. Flared end section (FES) headwall concept

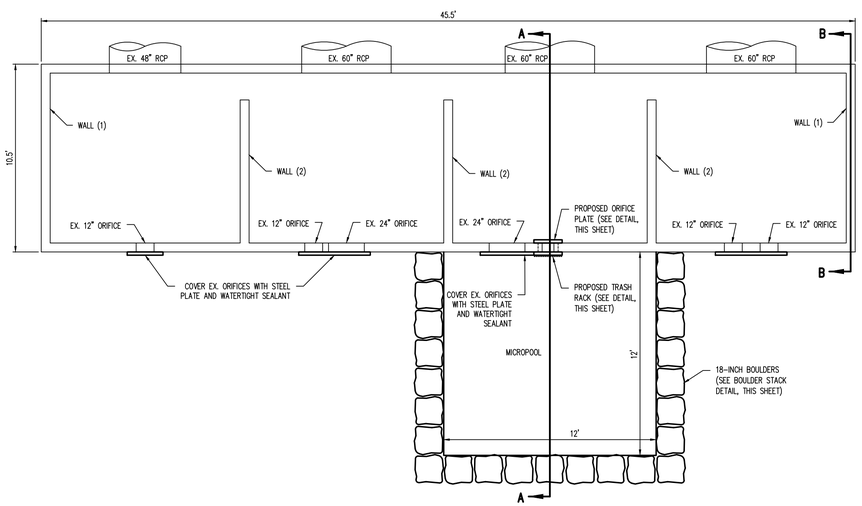


GROUTED BOULDER EDGE DETAIL



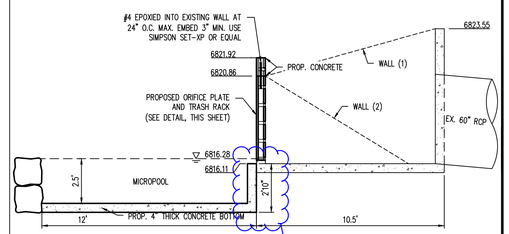
GROUTED BOULDER STACKED WALL EDGE

Figure 8-36. Sample grouted boulder section



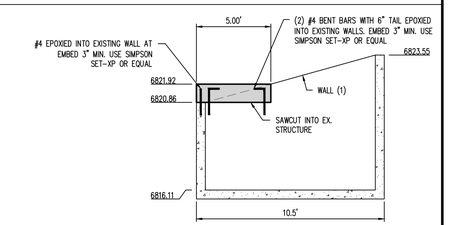
POND WU OUTLET STRUCTURE MODIFICATION – PLAN VIEW

NOT TO SCALE

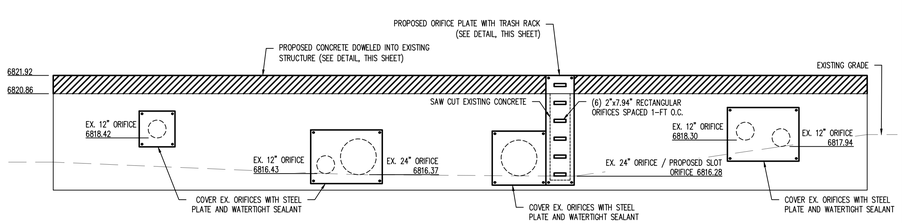


Should opening be extended into micropool? Please discuss.

SECTION A–A

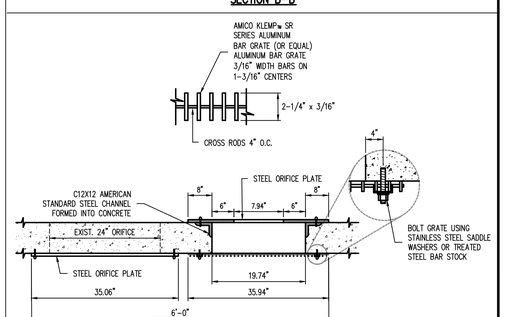


SECTION B–B



POND WU OUTLET STRUCTURE MODIFICATION – PROFILE VIEW

NOT TO SCALE



ORIFICE PLATE AND TRASH RACK DETAIL

NOT TO SCALE

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FALCON, CO 80831 - EL PASO COUNTY

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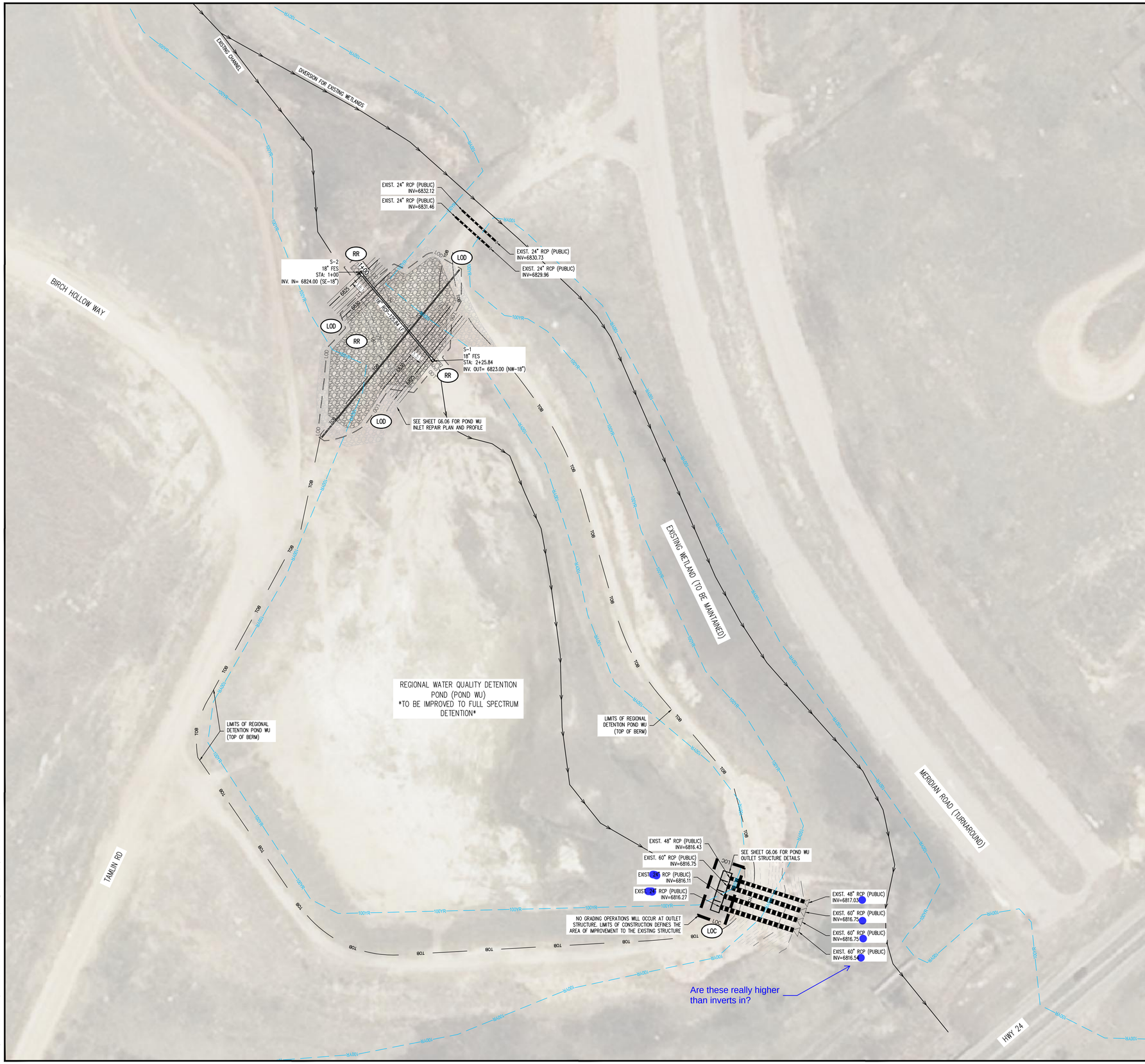
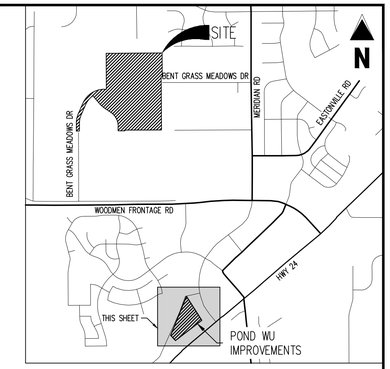
Project No:	CLH000014.20
Drawn By:	JDP
Checked By:	RGD
Date:	3/29/2020

POND WU DETAILS

G6.06

Sheet 20 of 26





VICINITY MAP
1"=2,000'

N

0 10 20 50
SCALE: 1"=50'

LEGEND

6930	EXISTING MINOR CONTOUR
6930	EXISTING MAJOR CONTOUR
6940	PROPOSED MINOR CONTOUR
6940	PROPOSED MAJOR CONTOUR
	EXISTING PROPERTY BOUNDARY
	PROPOSED PROPERTY BOUNDARY
100YR	100 - YR FLOODPLAIN LINE
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
TOB	TOP OF BANK
	APPROXIMATE FLOW PATH
LOD	LIMITS OF DISTURBANCE
LOC	LIMITS OF CONSTRUCTION
RR	RIP RAP / OUTFALL PADS
	EXISTING FLOW
	PROPOSED FLOW
×6930.42	PROPOSED SPOT ELEVATION

NOTES

1. STRAW ECB SHALL BE PLACED ON ALL DISTURBED POND SIDE SLOPES
2. STRAW ECB SHALL BE PLACED ON ALL DISTURBED 4:1 SLOPES AND STEEPER
3. UNLESS OTHERWISE NOTED, ALL RIPRAP SHOWN IS TO BE TYPE L-18" DEPTH.

LEGAL DESCRIPTION

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WATER QUALITY DETENTION POND (POND WU)

G6.05