

LOCATION MAP

N.T.S.

GENERAL NOTES:

1.

OBTAIN DIMENSIONS BY SCALING DRAWINGS. VERIFY SCALED DRAWINGS PRIOR TO OBTAINING DIMENSIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
2.

ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO STARTING WORK.
3.

STAGING AREAS ARE TO BE WITHIN THE DESIGNATED CONSTRUCTION LIMITS. IF THE CONTRACTOR REQUIRES ADDITIONAL AREA, THEY SHALL VERIFY WITH OWNER'S REPRESENTATIVE.
4.

VERIFY ALL SITE CONDITIONS BY SITE VISIT PRIOR TO PERFORMING WORK.
5.

PROVIDE UTILITY LOCATES PRIOR TO PERFORMING WORK.
6.

REFER TO DESIGN DRAWINGS FOR PROJECT REQUIREMENTS.
7.

CONTRACTOR OBTAIN APPROVED SUBMITTALS OF ALL PRODUCTS AND MATERIALS FROM OWNER'S REPRESENTATIVE PRIOR TO PURCHASING.
8.

INSTALL ALL VALVES, RESTRAINTS, SPRINKLER HEADS, AND WIRING PER MANUFACTURERS REQUIREMENTS / RECOMMENDATIONS.
9.

ALL ELECTRICAL WORK IS TO BE PERFORMED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. LICENSED ELECTRICIAN REQUIRED FOR ELECTRICAL WORK AS REQUIRED BY LOCAL CODE.
10.

BIDS TO INCLUDE CENTRAL CONTROL SOFTWARE (RAIN BIRD CIRRUSS PRO) AND ALL REQUIRED RAIN BIRD INTEGRATED CONTROL (IC) SYSTEM COMPONENTS AS SPECIFIED IN TECHNICAL SPECIFICATIONS. CONTRACTOR TO VERIFY CONTINUITY TO ALL RAIN BIRD IC COMPONENTS THROUGH SOFTWARE.
11.

THE IRRIGATION SYSTEM DESIGN DOCUMENTS ARE DESIGNED TO BE THE RAIN BIRD INTEGRATED CONTROL (IC) SYSTEM (OR APPROVED EQUAL). ALL PROVISIONS ARE TO BE MADE BY THE IRRIGATION CONTRACTOR TO INSTALL ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS. ANY INSTALLATION METHODS NOT ACCEPTABLE BY THE MANUFACTURER WILL RESULT IN THE CONTRACTOR FIXING OR REPLACING ALL WORK TO MANUFACTURER'S APPROVAL AT NO COST TO OWNER.
12.

INSTALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OF FINISH GRADES.
13.

6" MIN. SEPARATION ON ALL TRENCHING WITH TWO OR MORE PIPES IN SAME TRENCH REQUIRED.
14.

ADJUST HEAD LOCATIONS AS REQUIRED TO AVOID EXISTING FIXED OBJECTS.
15.

THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON PLANS.
16.

ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE AND FEDERAL REQUIREMENTS. IT SHALL BE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS OR APPROVALS.
17.

THIS PLAN IS SCHEMATIC DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
18.

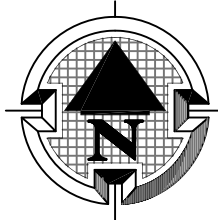
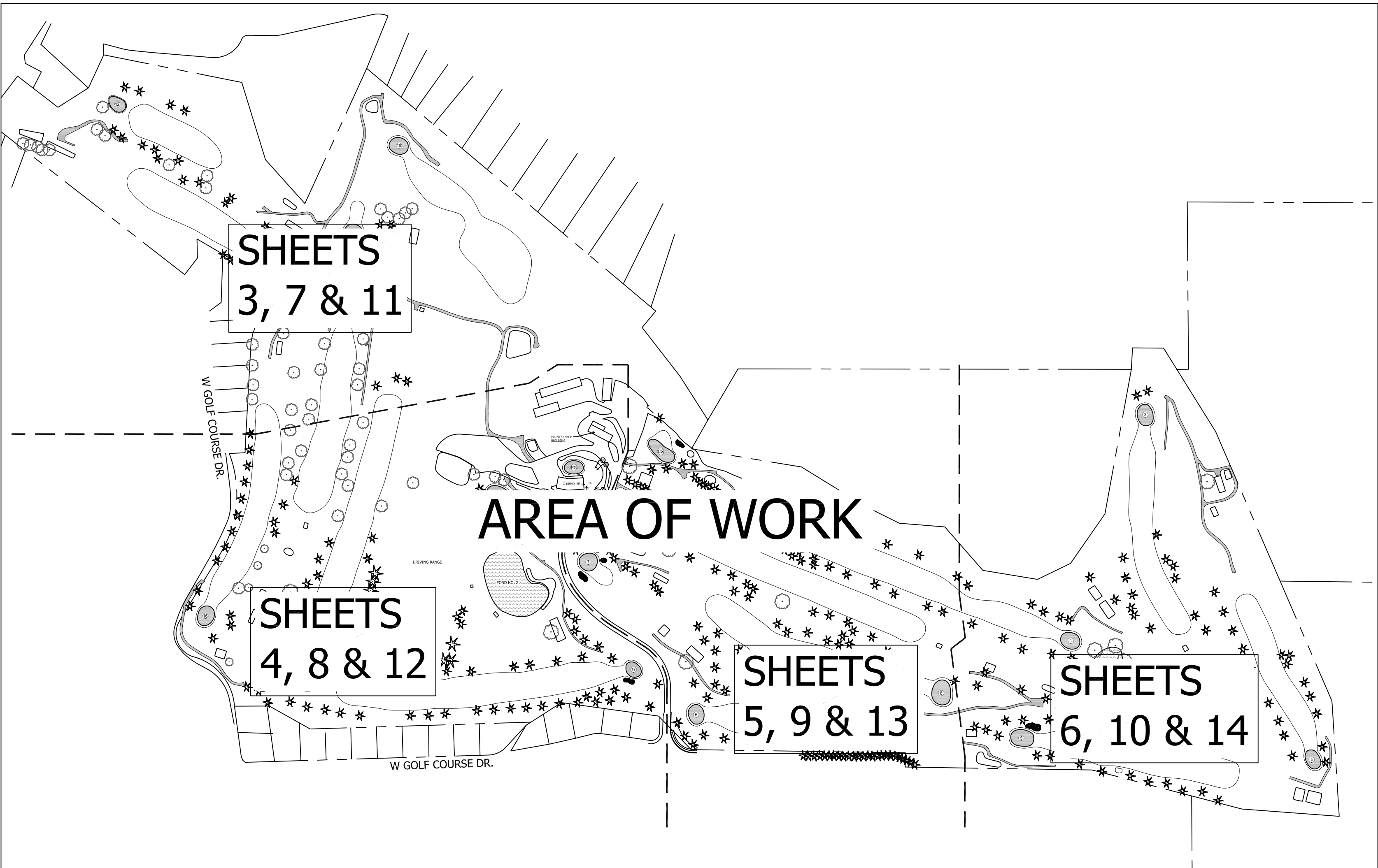
SINGLE (BLACK) TRACE WIRE REQUIRED ON TOP OF ALL IRRIGATION MAIN LINE.
19.

PLACE RAIN BIRD MAXI WIRE AND COMMUNICATION WIRE 3" TO 6" AWAY FROM IRRIGATION MAIN LINE.
20.

IRRIGATION CONTRACTOR IS TO AVOID TRENCHING WITHIN ROOT ZONE OF EXISTING TREES TO REMAIN. REFER TO TREE PROTECTION SPECIFICATIONS.
21.

IRRIGATION CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS OR ADDITIONS TO DESIGN WITHOUT PRIOR APPROVAL FROM IRRIGATION DESIGNER.
22.

RAIN BIRD PUMP STATION TO HAVE A MINIMUM 3 YEAR PUMP STATION WARRANTY.



AREA OF WORK MAP

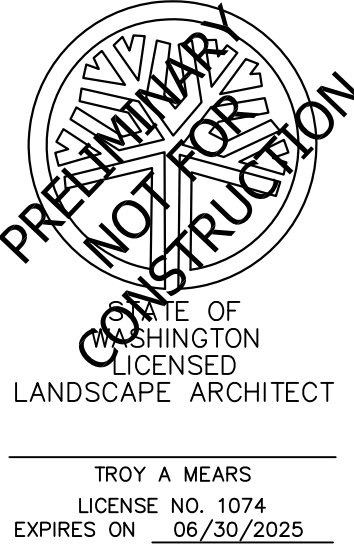
N.T.S.

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PROJECT TEAM

OWNER'S REPRESENTATIVE	IRRIGATION CONSULTANT
ERIN McCABE, SUPERINTENDENT LAKE CHELAN GOLF COURSE 1501 GOLF COURSE DRIVE CHELAN, WA 98816 (206) 818-3180	TROY MEARS, PLA, CID MEARS DESIGN GROUP, LLC PO BOX 23338 PORTLAND, OR 97281 (503) 601-4516 (503) 924-4688 FAX



LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

701 W GOLF COURSE DRIVE, CHELAN, WA 98816

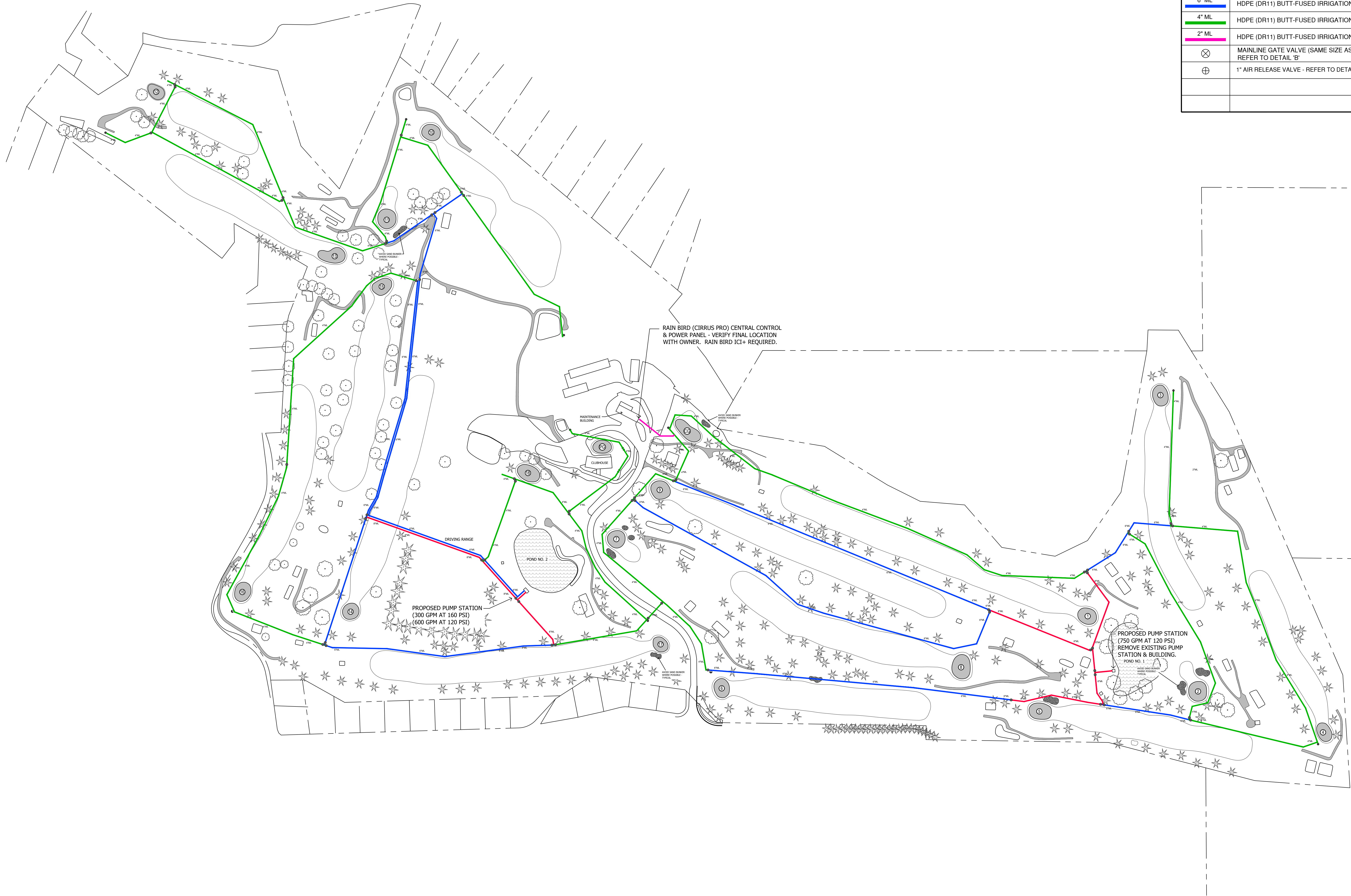


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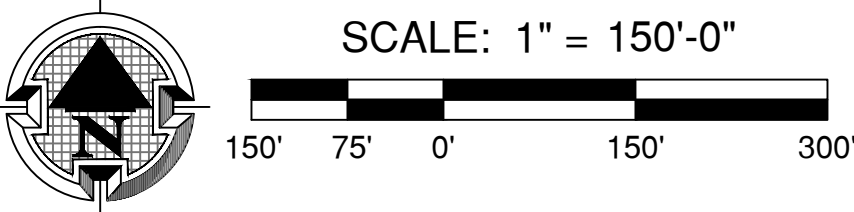
SHEET NAME:
COVER SHEET

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/21/2023
JOB NO.:	2311

SHEET:
1
OF 17
90% SET



GENERAL KEY	
8" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE
6" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE
4" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE
2" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE
⊗	MAINLINE GATE VALVE (SAME SIZE AS MAINLINE) - REFER TO DETAIL 'B'
⊕	1" AIR RELEASE VALVE - REFER TO DETAIL 'C'



MEARS
DESIGN & GROUP
IRRIGATION DESIGN AND CONSULTING
PO BOX 253339 11200 15TH AVENUE S.E. SUITE 107281
PHOENIX, AZ 85033-0339 1 FAX: 602.924.4666

TROY A. MEARS
LICENSE NO. 10714
EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

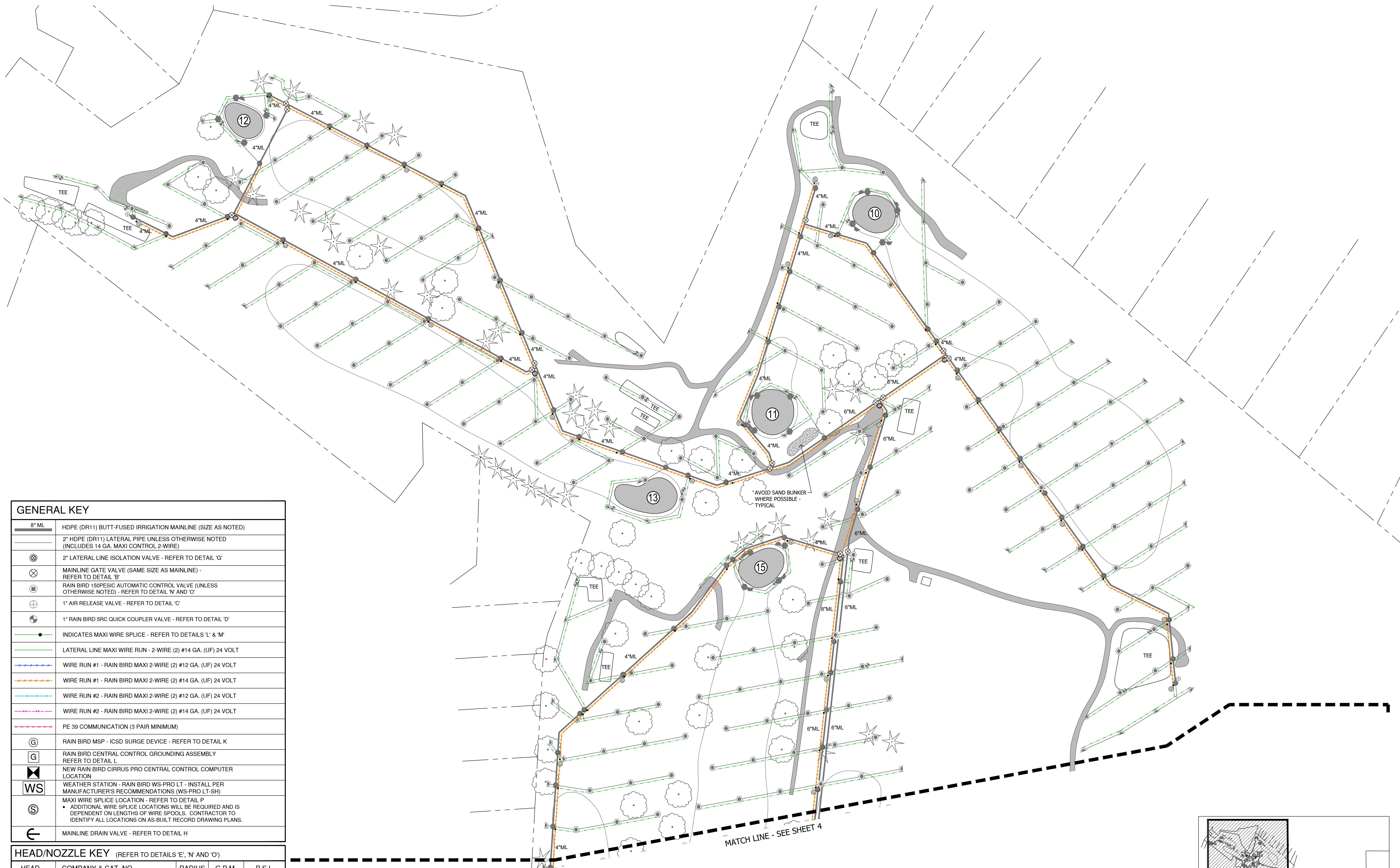
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SHEET NAME:
IRRIGATION
MAINLINE PLAN

DRAWN BY:	TAM
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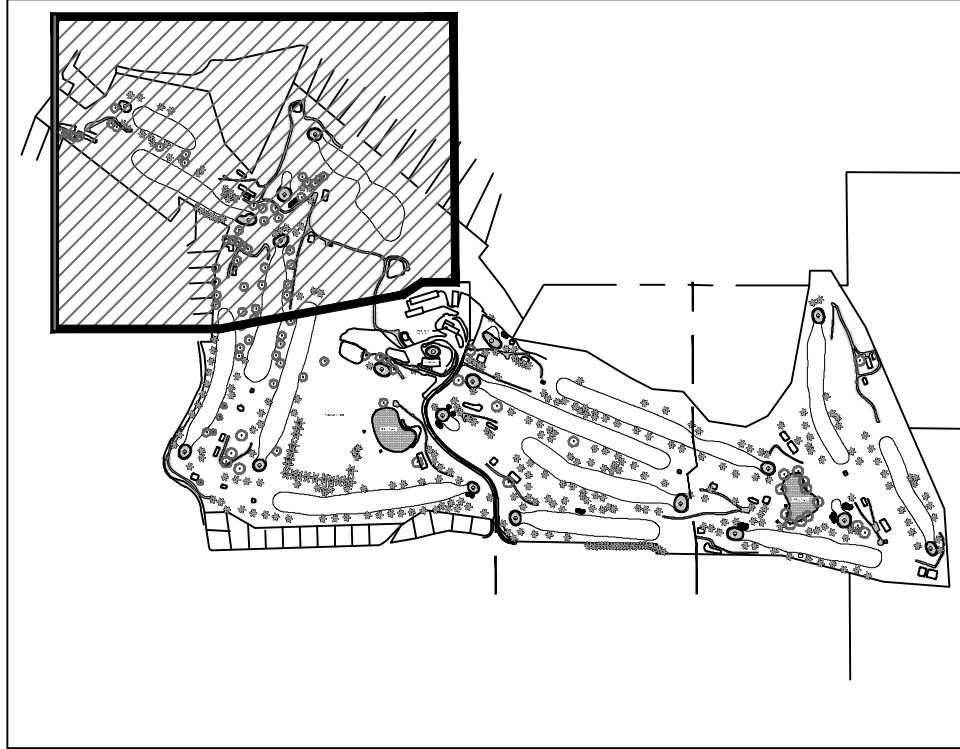
GENERAL KEY

8" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE (SIZE AS NOTED)
	2" HDPE (DR11) LATERAL PIPE UNLESS OTHERWISE NOTED (INCLUDES 14 GA. MAXI CONTROL 2-WIRE)
⊗	2" LATERAL LINE ISOLATION VALVE - REFER TO DETAIL 'G'
⊗	MAINLINE GATE VALVE (SAME SIZE AS MAINLINE) - REFER TO DETAIL 'B'
⊗	RAIN BIRD 150PESIC AUTOMATIC CONTROL VALVE (UNLESS OTHERWISE NOTED) - REFER TO DETAIL 'N' AND 'O'
⊕	1" AIR RELEASE VALVE - REFER TO DETAIL 'C'
⊕	1" RAIN BIRD 5RC QUICK COUPLER VALVE - REFER TO DETAIL 'D'
—●—	INDICATES MAXI WIRE SPLICE - REFER TO DETAILS 'L' & 'M'
—●—	LATERAL LINE MAXI WIRE RUN - 2-WIRE (2) #14 GA. (UF) 24 VOLT
—●—	WIRE RUN #1 - RAIN BIRD MAXI 2-WIRE (2) #12 GA. (UF) 24 VOLT
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—●—	PE 39 COMMUNICATION (3 PAIR MINIMUM)
ⓐ	RAIN BIRD MSP - ICSD SURGE DEVICE - REFER TO DETAIL K
ⓐ	RAIN BIRD CENTRAL CONTROL GROUNDING ASSEMBLY REFER TO DETAIL L
ⓐ	NEW RAIN BIRD CIRRUS PRO CENTRAL CONTROL COMPUTER LOCATION
WS	WEATHER STATION - RAIN BIRD WS-PRO LT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS (WS-PRO LT-SH)
Ⓢ	MAXI WIRE SPLICE LOCATION - REFER TO DETAIL P • ADDITIONAL WIRE SPLICE LOCATIONS WILL BE REQUIRED AND IS DEPENDENT ON LENGTHS OF WIRE SPOOLS. CONTRACTOR TO IDENTIFY ALL LOCATIONS ON AS-BUILT RECORD DRAWING PLANS.
⊖	MAINLINE DRAIN VALVE - REFER TO DETAIL H

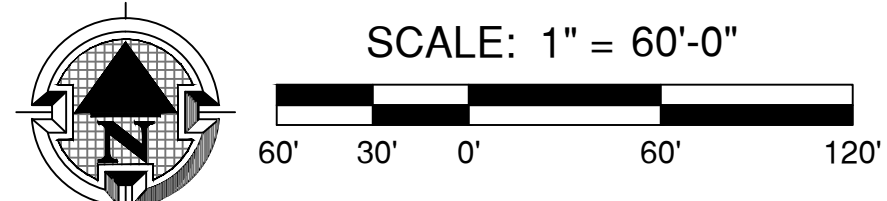
HEAD/NOZZLE KEY (REFER TO DETAILS 'E', 'N' AND 'O')

HEAD	COMPANY & CAT. NO.	RADIUS	G.P.M.	P.S.I.
⬢	RAIN BIRD A-752-IC-70-#28	58"	17.6	70
⬢	RAIN BIRD A-752-IC-70-#28	58"	17.6	70
⬢	RAIN BIRD A-702-IC-70-#36	70"	28.3	80
⬢	RAIN BIRD A-752-IC-70-#40	68"	27.9	80
⬢ 360° 90°-270°	HUNTER MP2000 ROTATOR	14'-20'	43-1.48	40
⬢ 360° 90°-270°	HUNTER MP3000 ROTATOR	22'-30'	86-3.64	40

- NOTES:
- IRRIGATION WIRING PLAN IS DIAGRAMMATIC IN NATURE. FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID CONFLICTS WITH PROPOSED IRRIGATION COMPONENTS AND EXISTING SITE FEATURES.
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 - DIFFERENT COLOR JACKET TO BE USED ON EACH OF THE WIRE PATHS AS SHOWN IN THE LEGEND.
 - REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



PLAN KEY



MEARS
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IRRIGATION DESIGN AND CONSULTING
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PRELIMINARY
STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT
TROY A MEARS
LICENSE NO. 10714
EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

701 W GOLF COURSE DRIVE, CHELAN, WA 98816



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SHEET NAME:
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WIRING PLAN

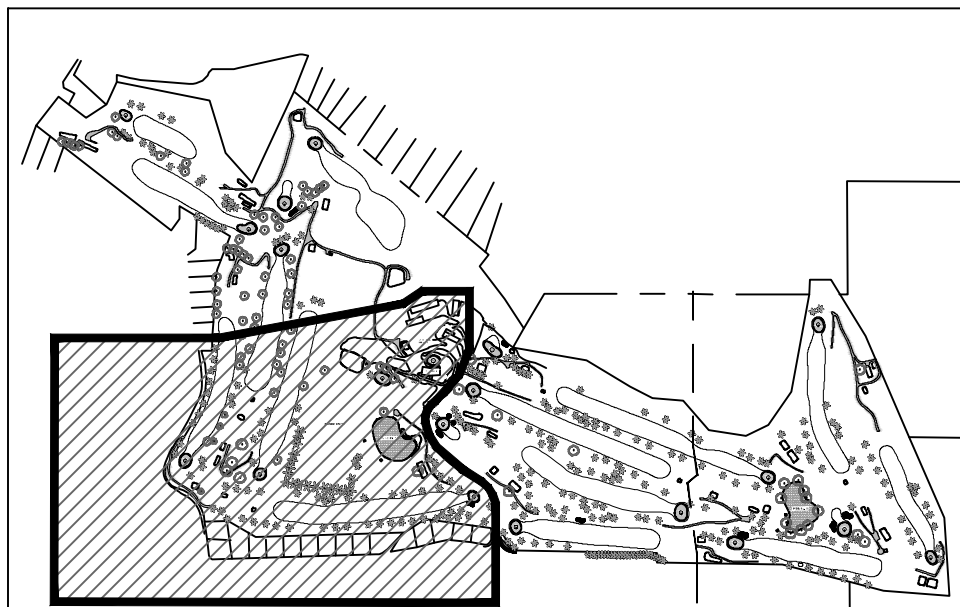
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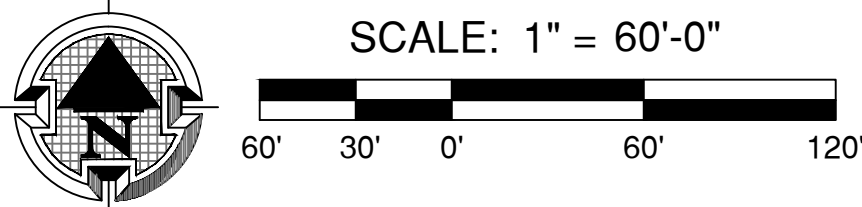
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PLAN KEY
NTS



LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



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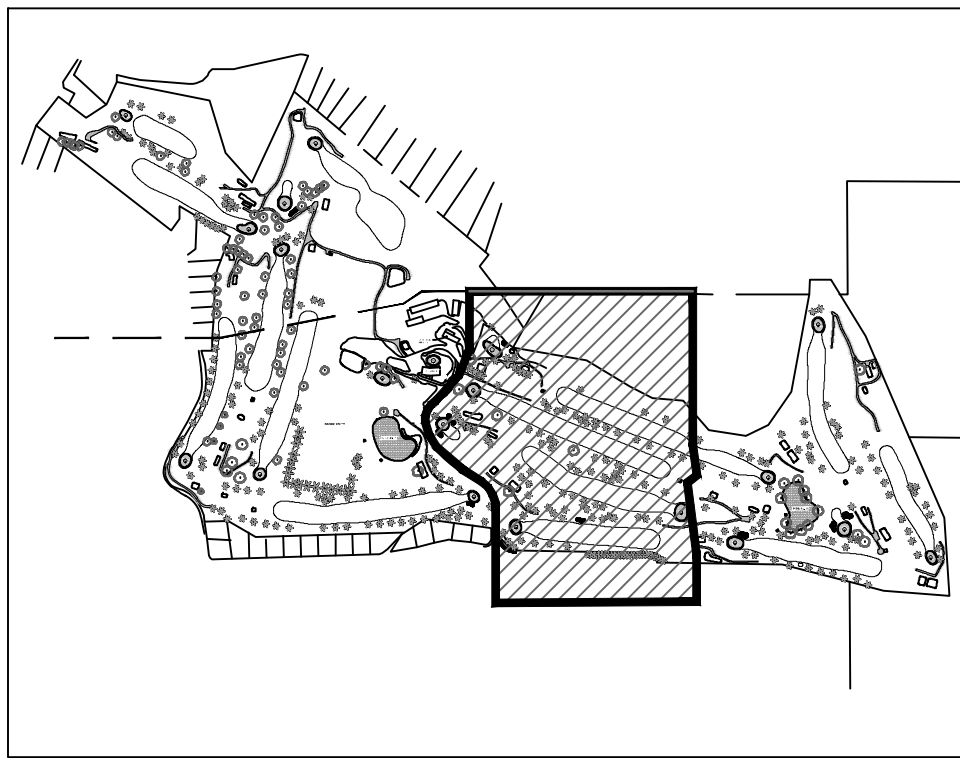
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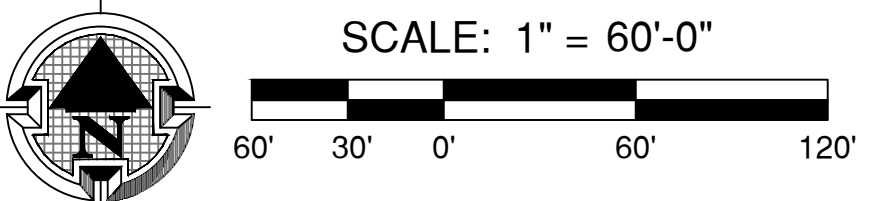
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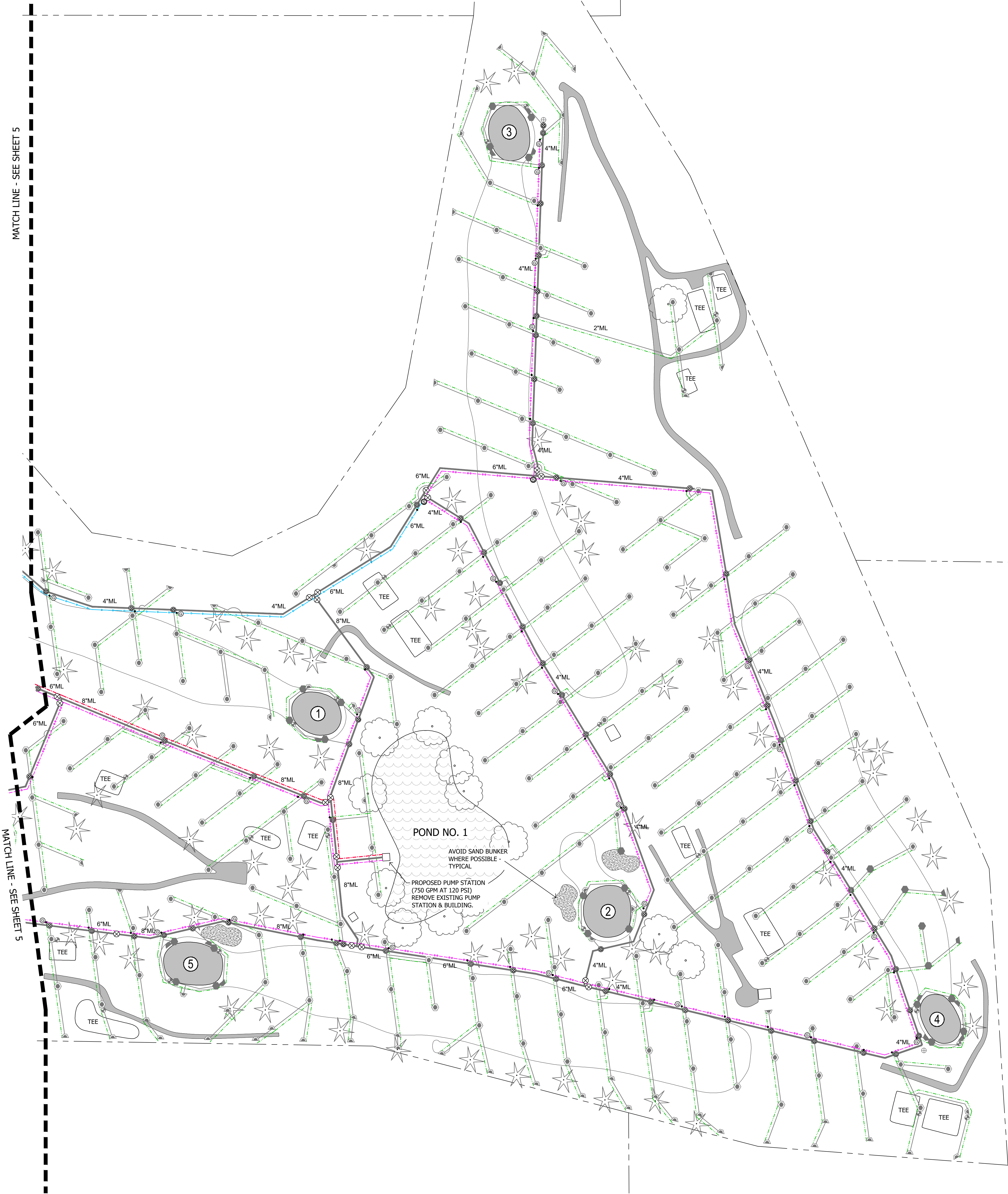
LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



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WIRING PLAN

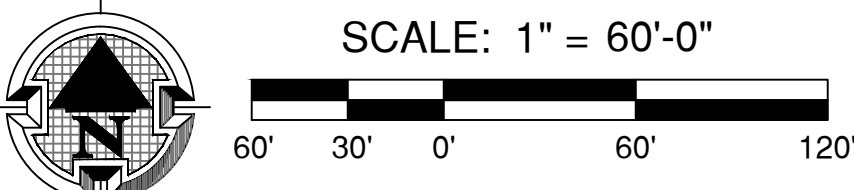
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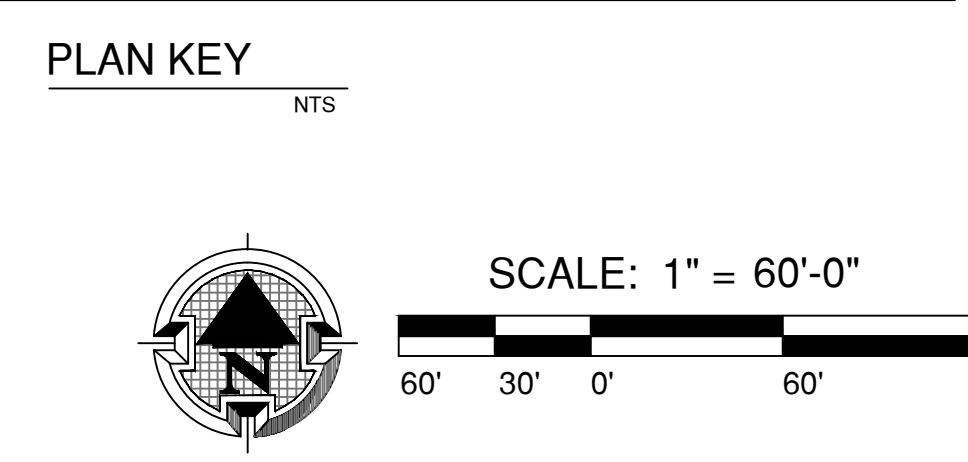
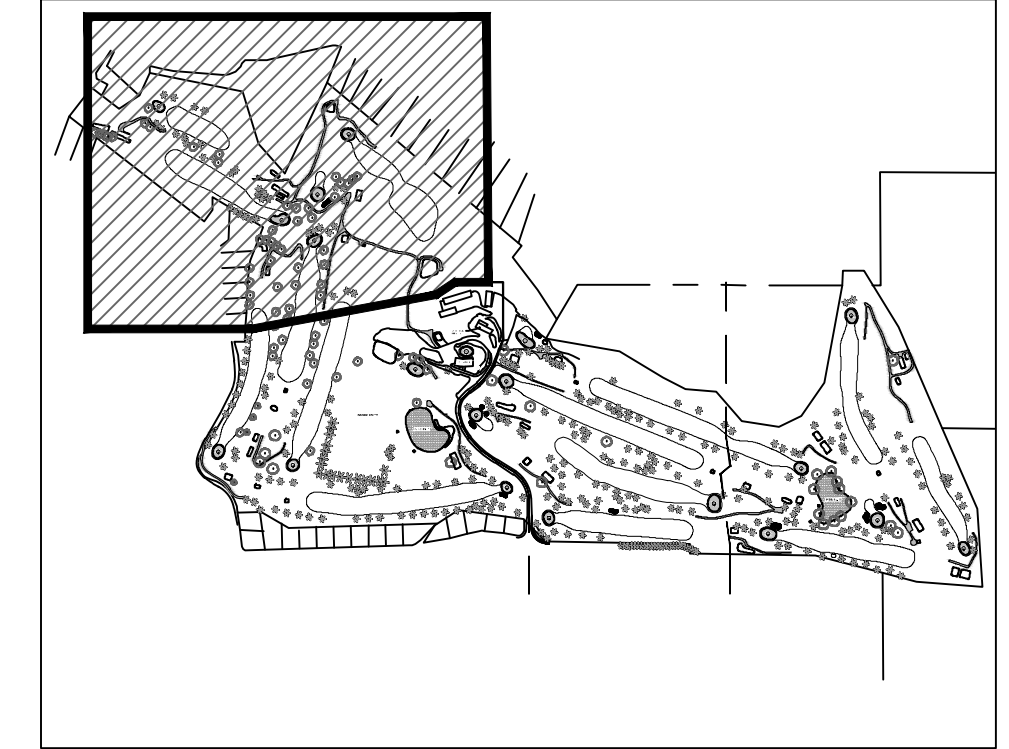
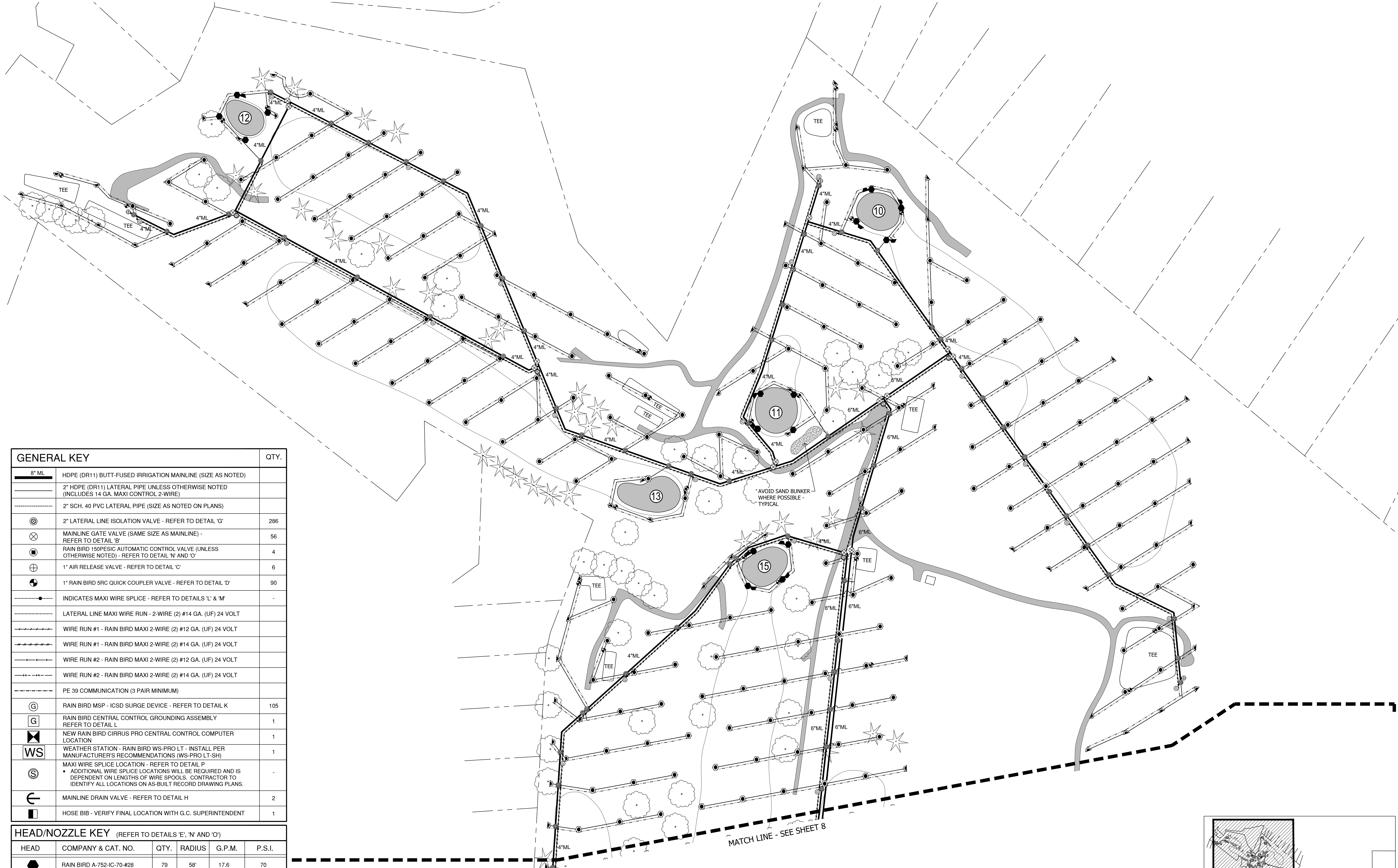
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GENERAL KEY		QTY.
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2" HDPE (DR11) LATERAL PIPE UNLESS OTHERWISE NOTED (INCLUDES 14 GA. MAXI CONTROL 2-WIRE)		
2" SCH. 40 PVC LATERAL PIPE (SIZE AS NOTED ON PLANS)		
2" LATERAL LINE ISOLATION VALVE - REFER TO DETAIL 'G'		286
MAINLINE GATE VALVE (SAME SIZE AS MAINLINE) - REFER TO DETAIL 'B'		56
RAIN BIRD 150PESIC AUTOMATIC CONTROL VALVE (UNLESS OTHERWISE NOTED) - REFER TO DETAIL 'N' AND 'O'		4
1" AIR RELEASE VALVE - REFER TO DETAIL 'C'		6
1" RAIN BIRD 5RC QUICK COUPLER VALVE - REFER TO DETAIL 'D'		90
INDICATES MAXI WIRE SPLICE - REFER TO DETAILS 'L' & 'M'		-
LATERAL LINE MAXI WIRE RUN - 2-WIRE (2) #14 GA. (UF) 24 VOLT		
WIRE RUN #1 - RAIN BIRD MAXI 2-WIRE (2) #12 GA. (UF) 24 VOLT		
WIRE RUN #1 - RAIN BIRD MAXI 2-WIRE (2) #14 GA. (UF) 24 VOLT		
WIRE RUN #2 - RAIN BIRD MAXI 2-WIRE (2) #12 GA. (UF) 24 VOLT		
WIRE RUN #2 - RAIN BIRD MAXI 2-WIRE (2) #14 GA. (UF) 24 VOLT		
PE 39 COMMUNICATION (3 PAIR MINIMUM)		
RAIN BIRD MSP - ICSD SURGE DEVICE - REFER TO DETAIL K		105
RAIN BIRD CENTRAL CONTROL GROUNDING ASSEMBLY REFER TO DETAIL L		1
NEW RAIN BIRD CIRRUS PRO CENTRAL CONTROL COMPUTER LOCATION		1
WEATHER STATION - RAIN BIRD WS-PRO LT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS (WS-PRO LT-SH)		1
MAXI WIRE SPLICE LOCATION - REFER TO DETAIL P		-
ADDITIONAL WIRE SPLICE LOCATIONS WILL BE REQUIRED AND IS DEPENDENT ON LENGTHS OF WIRE SPOOLS. CONTRACTOR TO IDENTIFY ALL LOCATIONS ON AS-BUILT RECORD DRAWING PLANS.		
MAINLINE DRAIN VALVE - REFER TO DETAIL H		2
HOSE BIB - VERIFY FINAL LOCATION WITH G.C. SUPERINTENDENT		1

HEAD/NOZZLE KEY (REFER TO DETAILS 'E', 'N' AND 'O')					
HEAD	COMPANY & CAT. NO.	QTY.	RADIUS	G.P.M.	P.S.I.
	RAIN BIRD A-752-IC-70-#28	79	58"	17.6	70
	RAIN BIRD A-752-IC-70-#28	44	58"	17.6	70
	RAIN BIRD A-702-IC-70-#36	945	70"	28.3	80
	RAIN BIRD A-752-IC-70-#40	296	68"	27.9	80
HUNTER MP2000 ROTATOR	4	14'-20'	.43-1.48	40	
HUNTER MP3000 ROTATOR	13	22'-30'	.86-3.64	40	

NOTES:

- IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID CONFLICTS WITH PROPOSED IRRIGATION COMPONENTS AND EXISTING SITE FEATURES.
- SPLICES IN 2-WIRE PATH ALONG MAINLINE SHALL BE PLACED WITHIN 10" ROUND VALVE BOX WITH GRAY LIDS ONLY. DO NOT USE ISOLATION VALVE BOXES, ETC FOR SPLICES.
- DIFFERENT COLOR JACKET TO BE USED ON EACH OF THE WIRE PATHS AS SHOWN IN THE LEGEND.
- IRRIGATION PIPING FOR AUTOMATIC CONTROL VALVES 1B7, 1B8, 1B9 AND 1B10 IS TO BE SCH. 40 PVC FROM VALVE TO SPRINKLER HEADS. CONNECTION TO MEET REQUIREMENTS PER DETAIL M.
- ALL CART PATH CROSSINGS TO BE SAW CUT AND PATCHED AS SHOWN IN DETAIL 'J'.
- REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



MEARS
DESIGN GROUP
IRRIGATION DESIGN AND CONSULTING
PO BOX 253339 | TACOMA, WA 98151-0739
PHONE: 509.861.4516 | FAX: 509.864.4666

TROY A. MEARS
LICENSE NO. 10714
EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

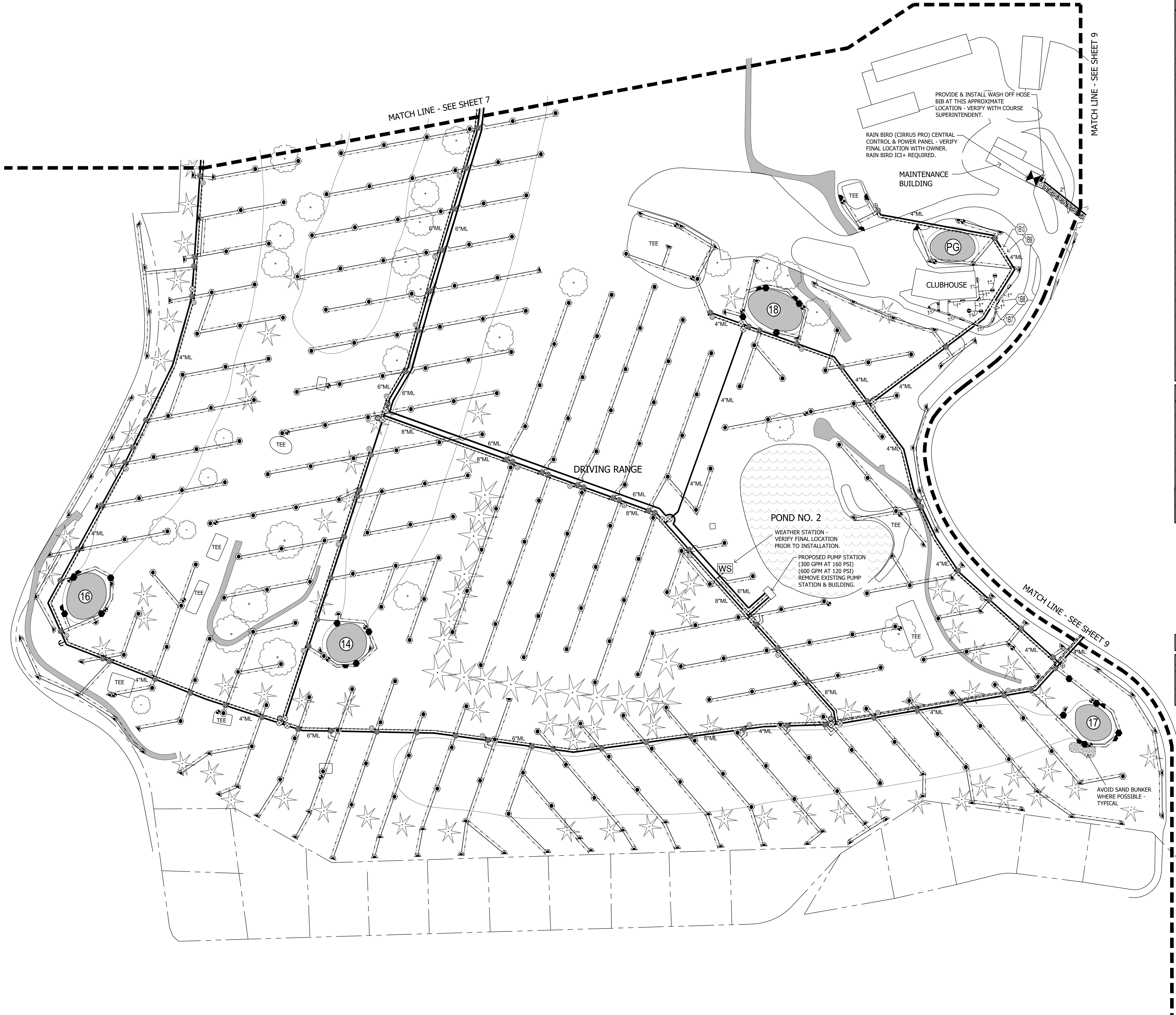
REVISIONS

REV.	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
LAYOUT PLAN

DRAWN BY:	TAM
CHECKED BY:	TAM
ISSUE DATE:	11/21/2023
JOB NO.:	2311

SHEET:
7
OF 17
90% SET



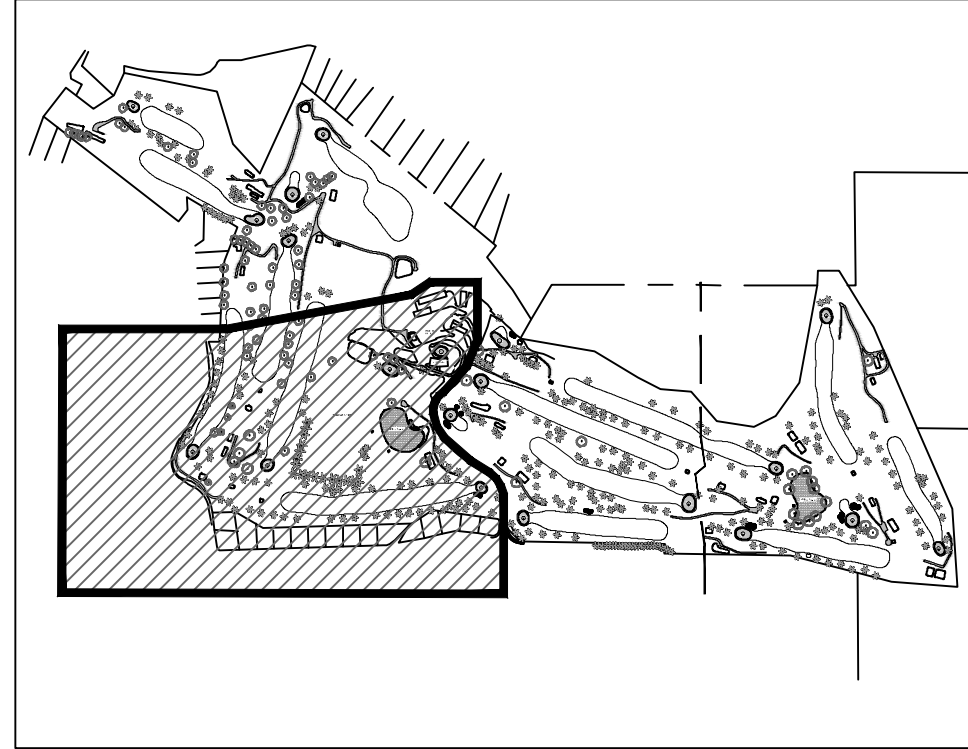
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---	PE 39 COMMUNICATION (3 PAIR MINIMUM)	
ⓖ	RAIN BIRD MSP - ICSD SURGE DEVICE - REFER TO DETAIL K	105
ⓖ	RAIN BIRD CENTRAL CONTROL GROUNDING ASSEMBLY REFER TO DETAIL L	1
ⓖ	NEW RAIN BIRD CIRBUS PRO CENTRAL CONTROL COMPUTER LOCATION	1
WS	WEATHER STATION - RAIN BIRD WS-PRO LT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS (WS-PRO LT-SH)	1
Ⓢ	MAXI WIRE SPLICE LOCATION - REFER TO DETAIL P • ADDITIONAL WIRE SPLICE LOCATIONS WILL BE REQUIRED AND IS DEPENDENT ON LENGTHS OF WIRE SPOOLS. CONTRACTOR TO IDENTIFY ALL LOCATIONS ON AS-BUILT RECORD DRAWING PLANS.	-
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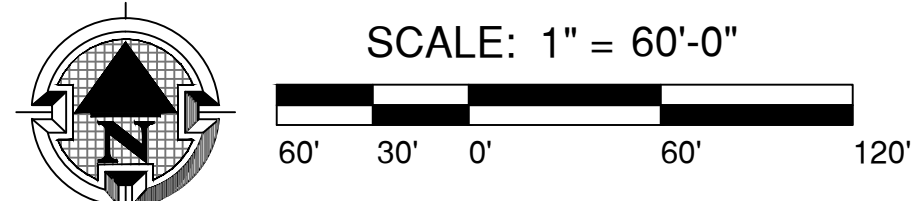
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AUTOMATIC CONTROL VALVE KEY									
CONTROL VALVE NO.	1B7	1B8	1B9	1B10					
P=PLANTS, L=LAWN									
G.P.M.	11.3	13.6	F	F					
F= FUTURE									
CONTROL VALVE SIZE	1.0	1.0	1.5	1.5					

MATCH LINE - SEE SHEET 9



PLAN KEY
NTS



MEARS

DESIGN & GROUP

IRRIGATION DESIGN AND CONSULTING

PO BOX 253339 | TACOMA, WA 98151 | TEL: 253.833.1073 | FAX: 253.833.1074

PRELIMINARY

STATE OF WASHINGTON

LANDSCAPE ARCHITECT

TROY A. MEARS

LICENSE NO. 10714

EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE

IRRIGATION RENOVATION PROJECT

701 W GOLF COURSE DRIVE, CHELAN, WA 98816

CITY OF CHELAN

LOGO

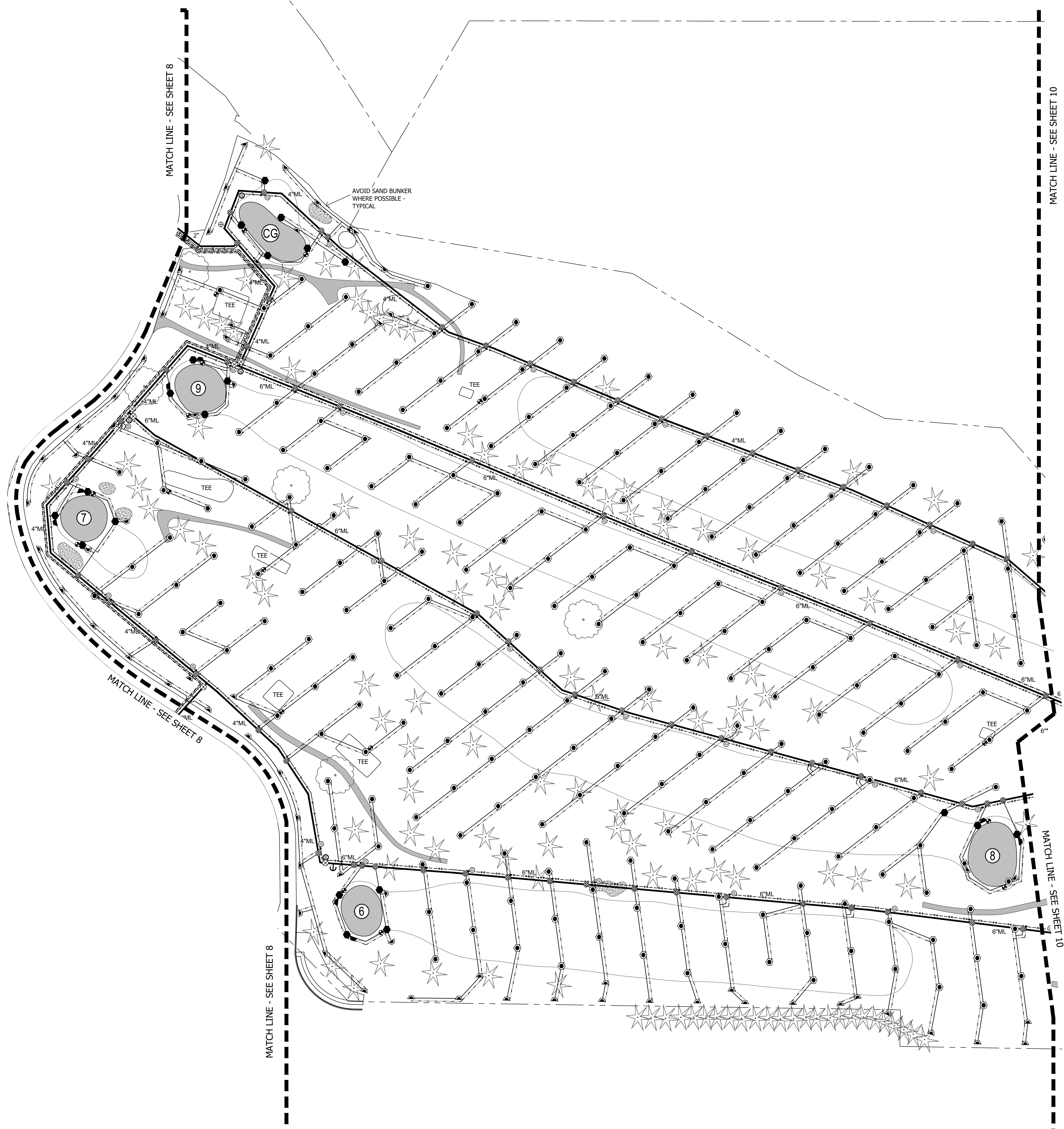
REVISIONS

REV	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
LAYOUT PLAN

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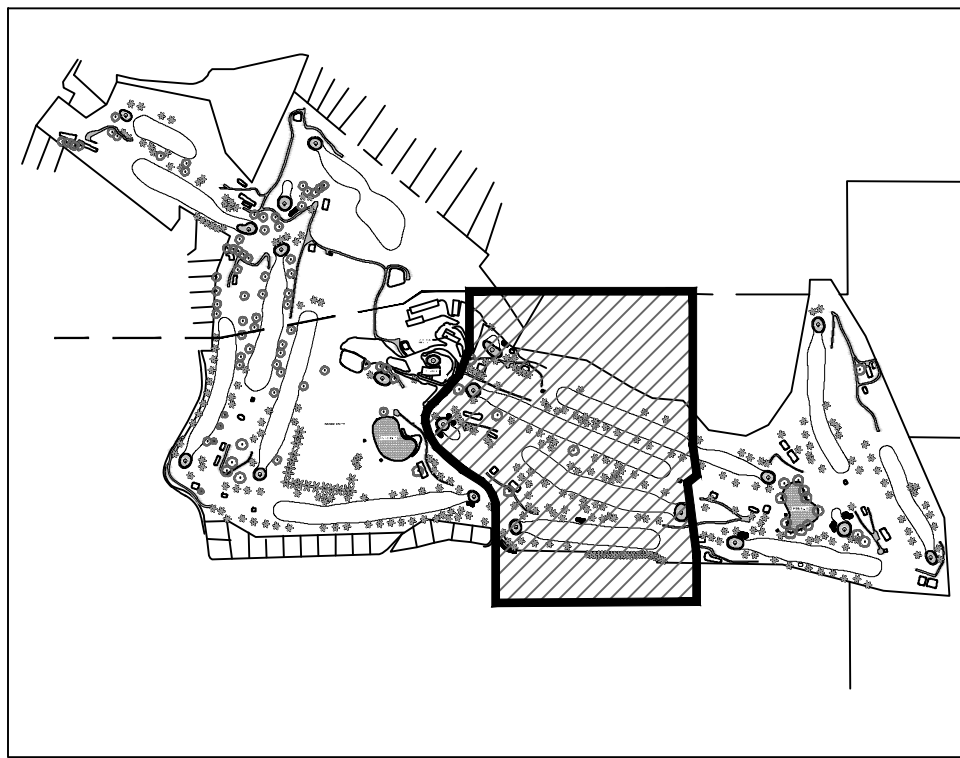
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OF 17
90% SET



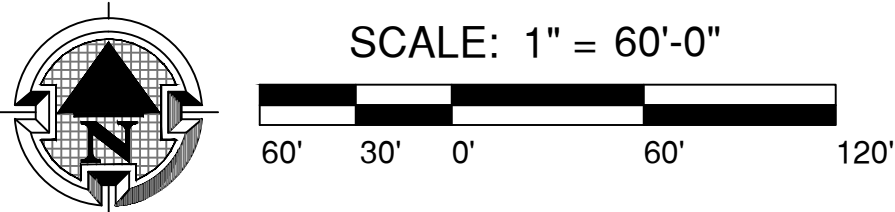
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Ⓜ	MAINLINE DRAIN VALVE - REFER TO DETAIL H	2
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⬢ 360° 90°-270°	HUNTER MP2000 ROTATOR	4	14'-20'	.43-1.48	40
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PLAN KEY
NTS



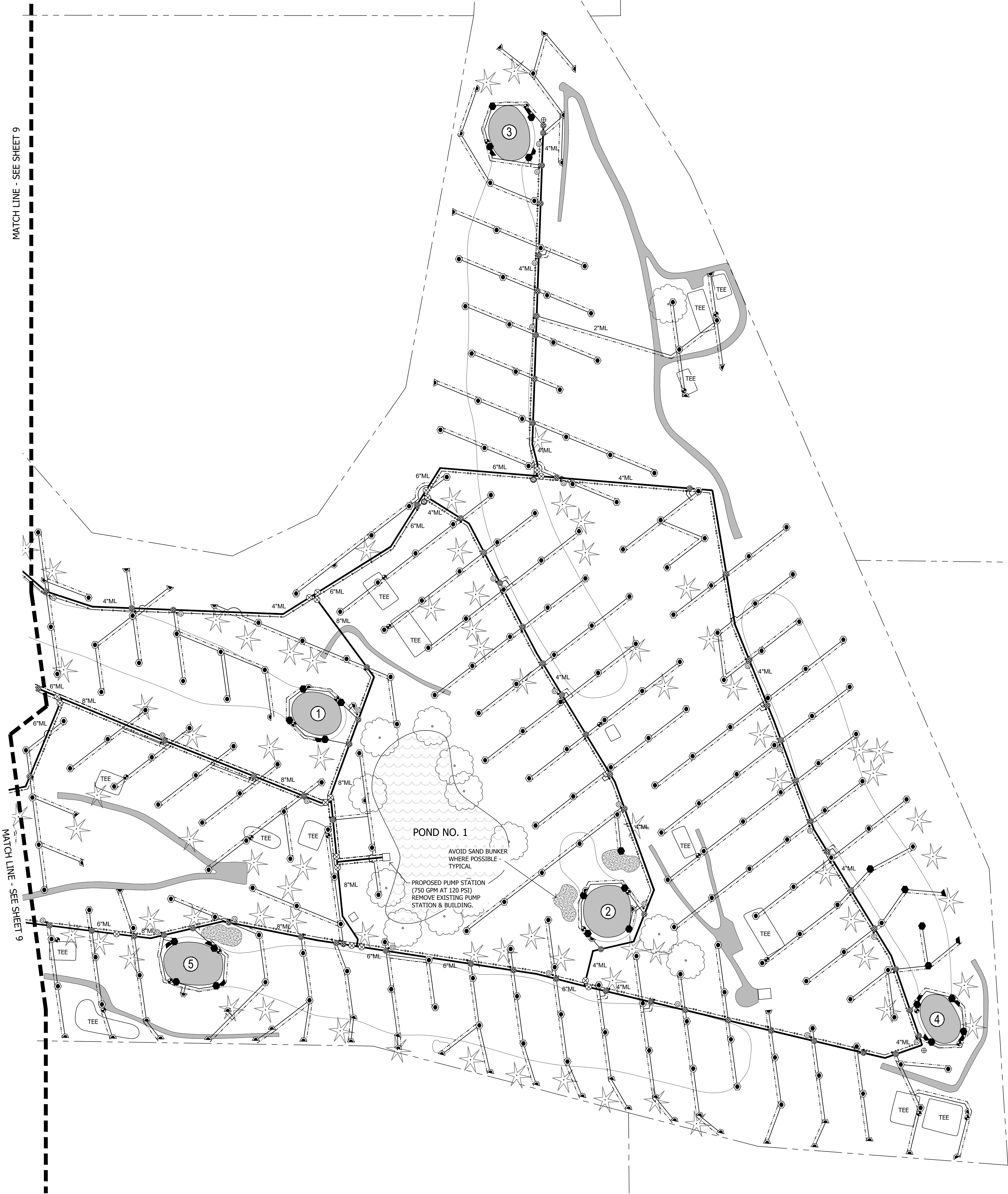
LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
LAYOUT PLAN

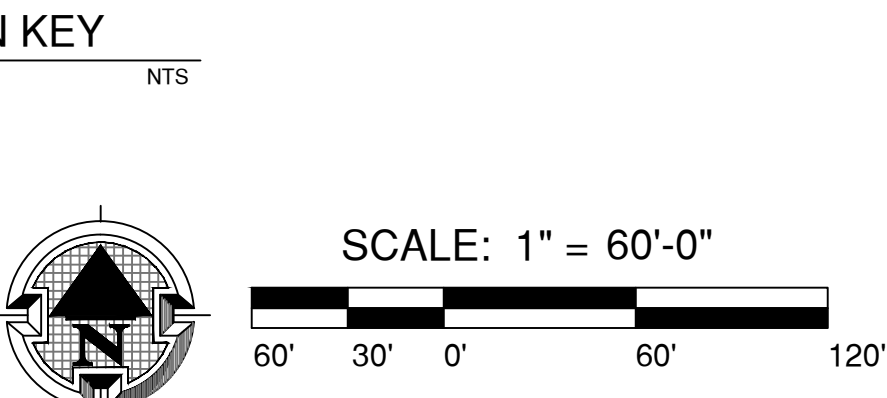
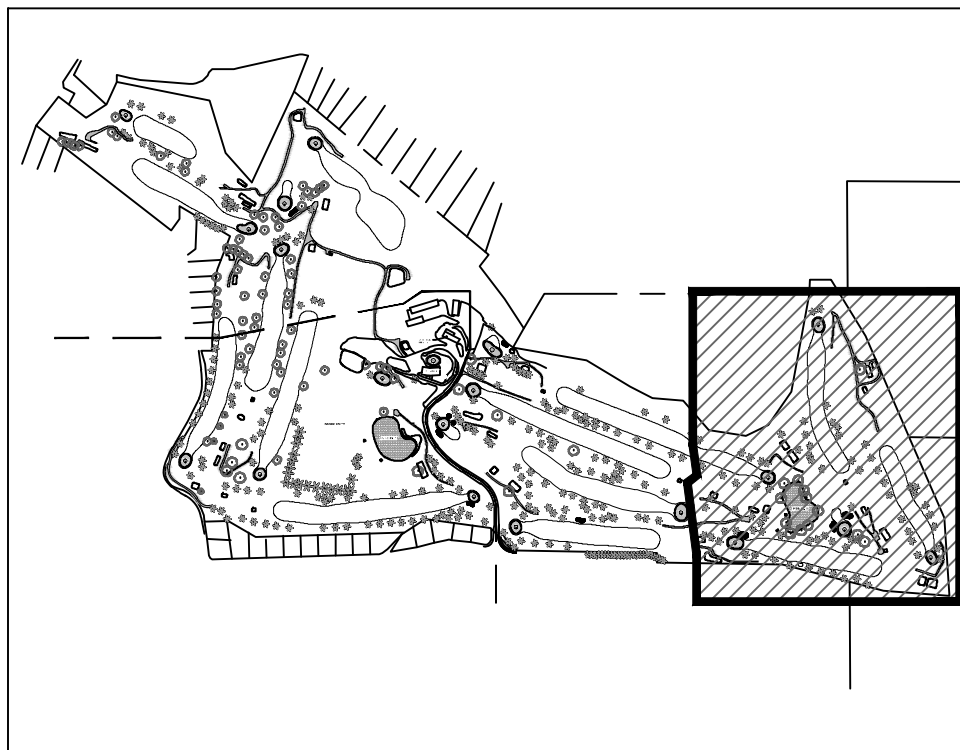
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ISSUE DATE: 11/21/2023
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GENERAL KEY		QTY.
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NEW RAIN BIRD CIRRUS PRO CENTRAL CONTROL COMPUTER LOCATION		1
WEATHER STATION - RAIN BIRD WS-PRO LT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS (WS-PRO LT-SH)		1
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HOSE BIB - VERIFY FINAL LOCATION WITH G.C. SUPERINTENDENT		1

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MEARS

DESIGN & CONSULTING

IRRIGATION DESIGN AND CONSULTING

PO BOX 253339 | TACOMA, WA 98151-0739 | PHONE: 509.861.4516 | FAX: 509.861.4666

PRELIMINARY

NO FOR CONSTRUCTION

CITY OF CHELAN

LANDSCAPE ARCHITECT

TROY A MEARS

LICENSE NO. 1074

EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE

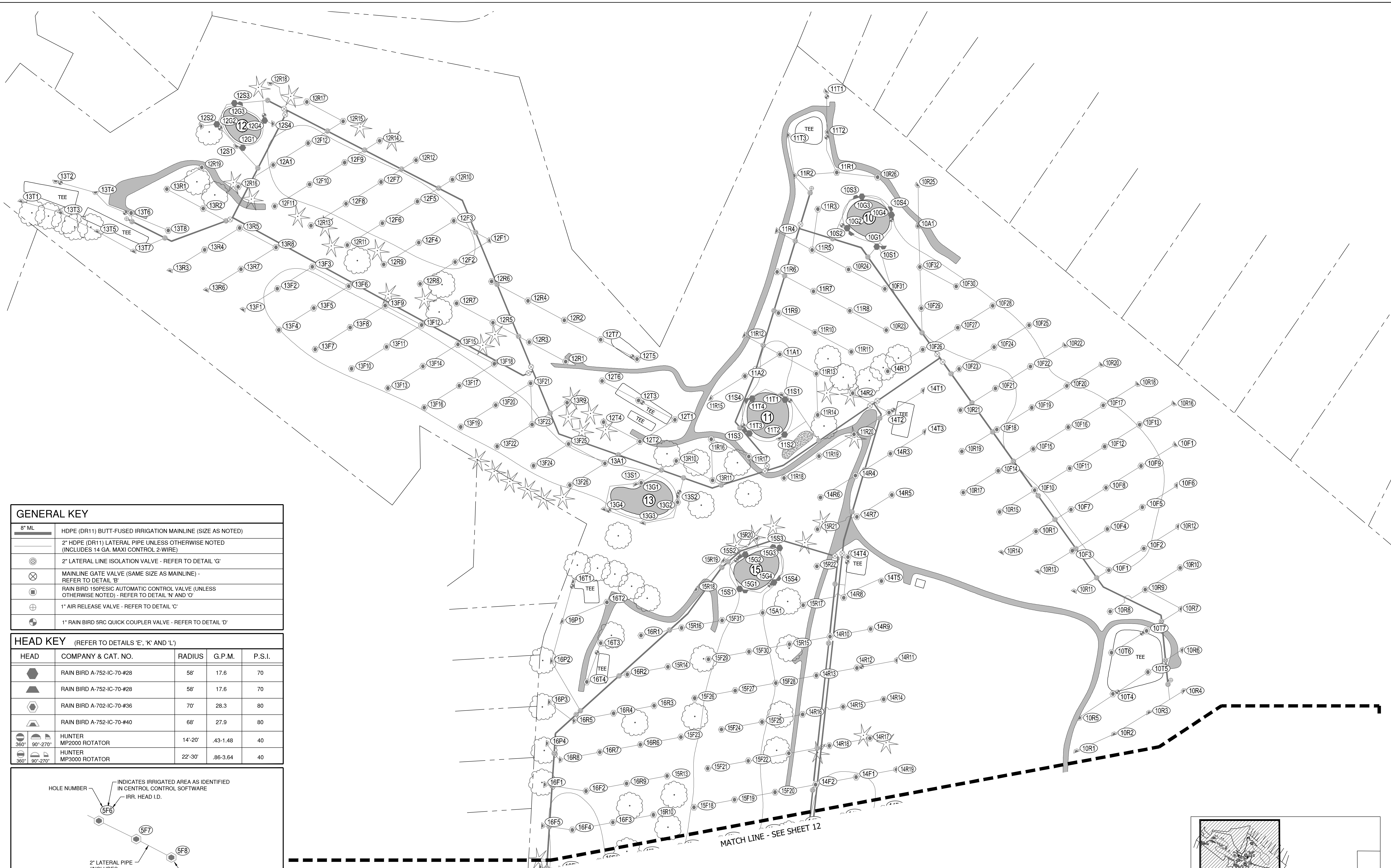
IRRIGATION RENOVATION PROJECT



REVISIONS		
REV	DATE	DESCRIPTION

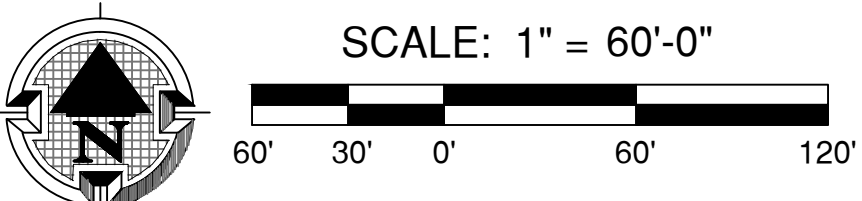
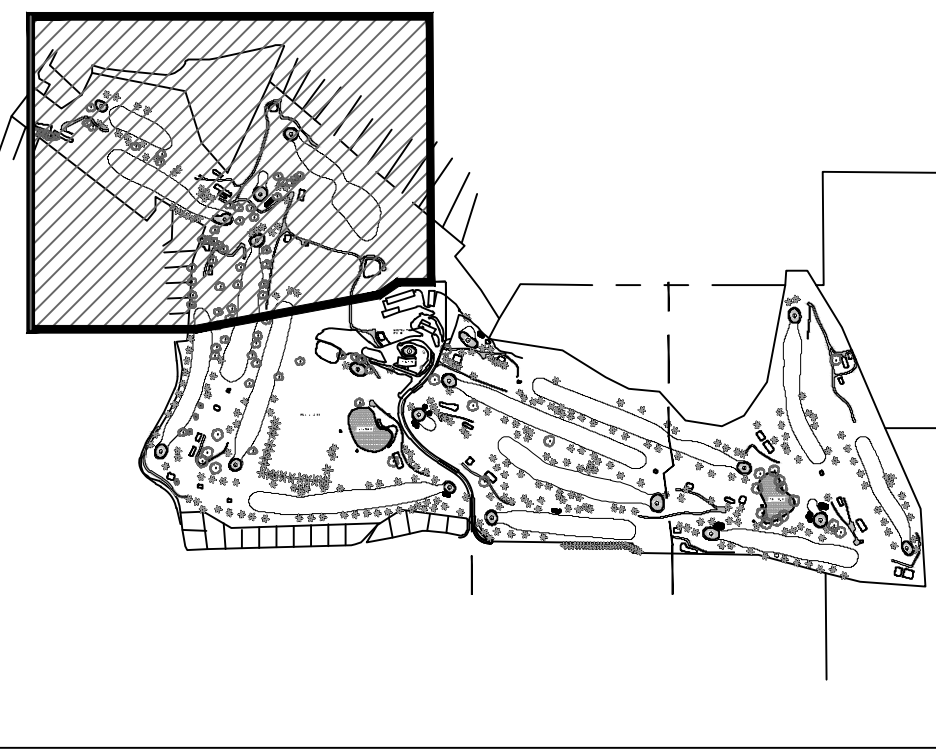
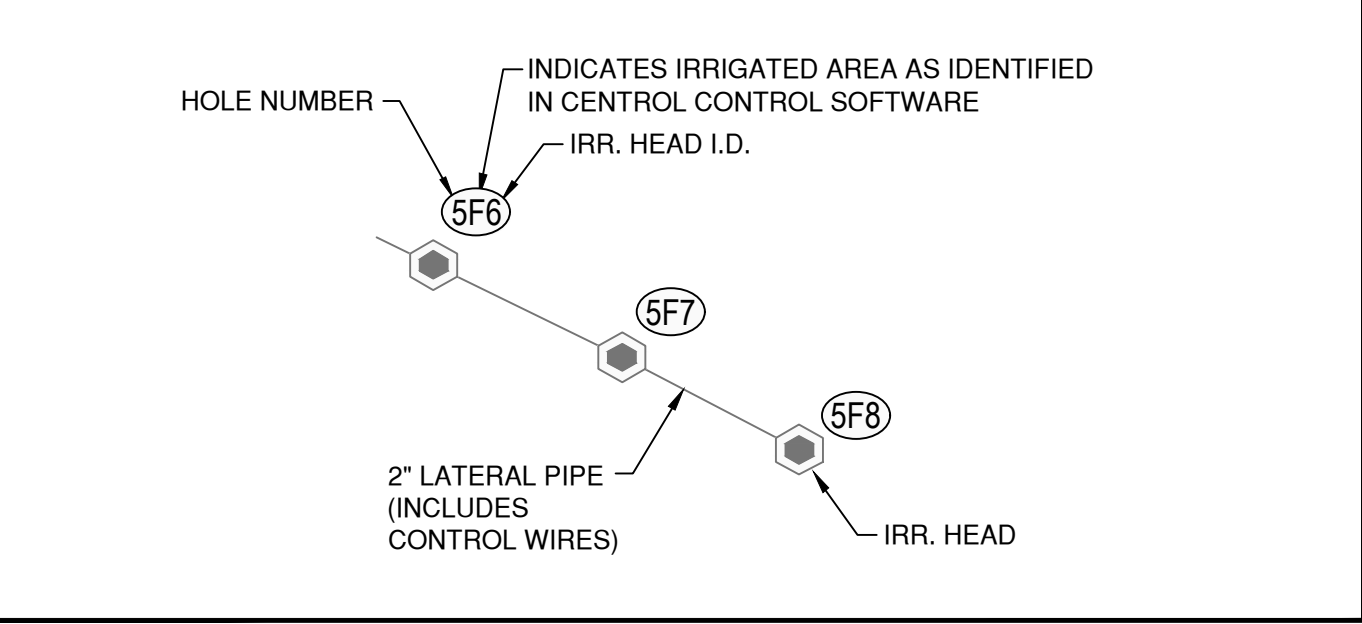
SHEET NAME:
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MEARS
DESIGN GROUP
IRRIGATION DESIGN AND CONSULTING
PO BOX 253339 11500 15TH AVE SE
TROY, WA 98061-4516 | FAX: 509.924.4669

PRELIMINARY
NOT FOR
CONSTRUCTION

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LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

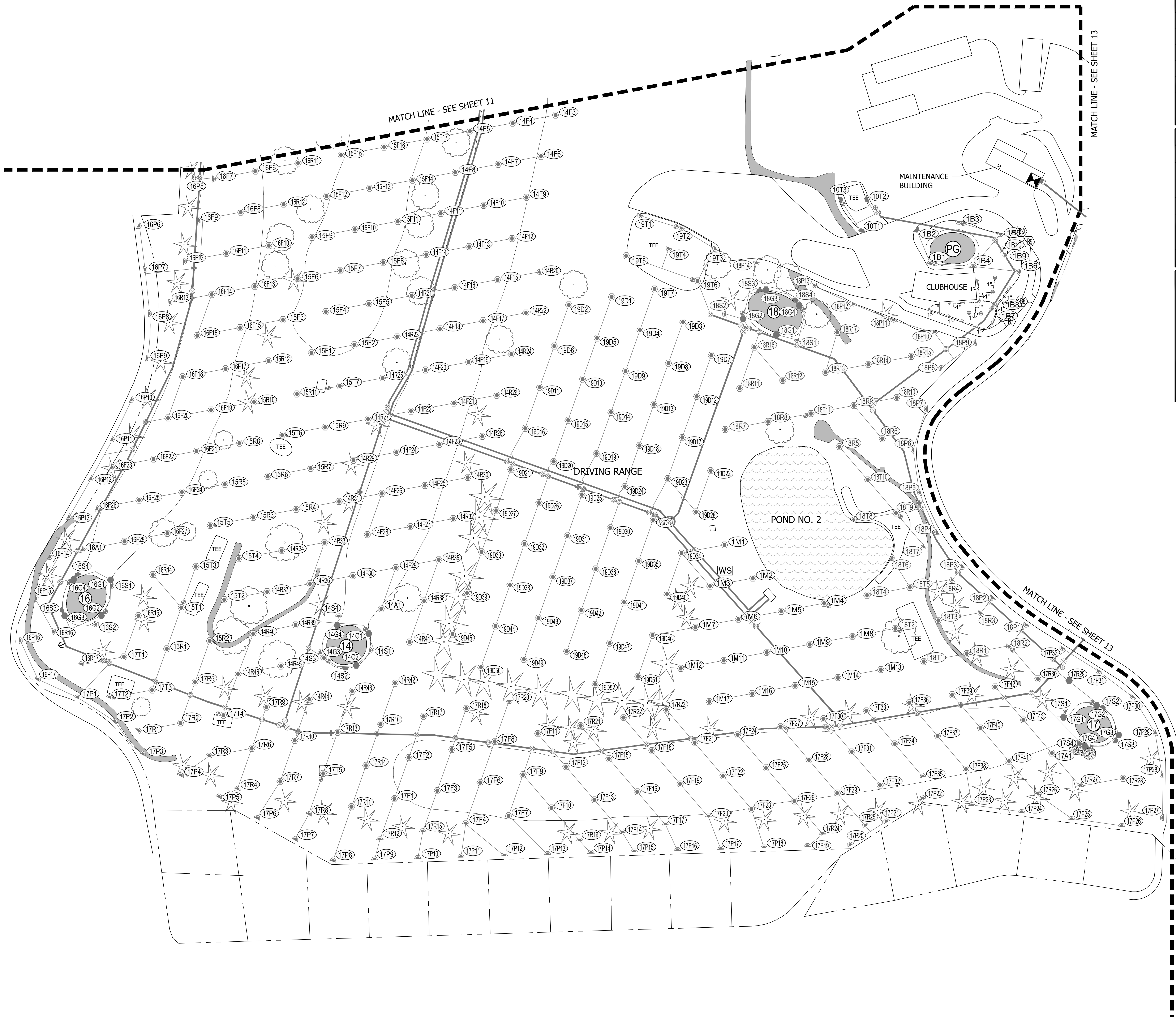
701 W GOLF COURSE DRIVE, CHELAN, WA 98816

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IRRIGATION
HEAD ID PLAN

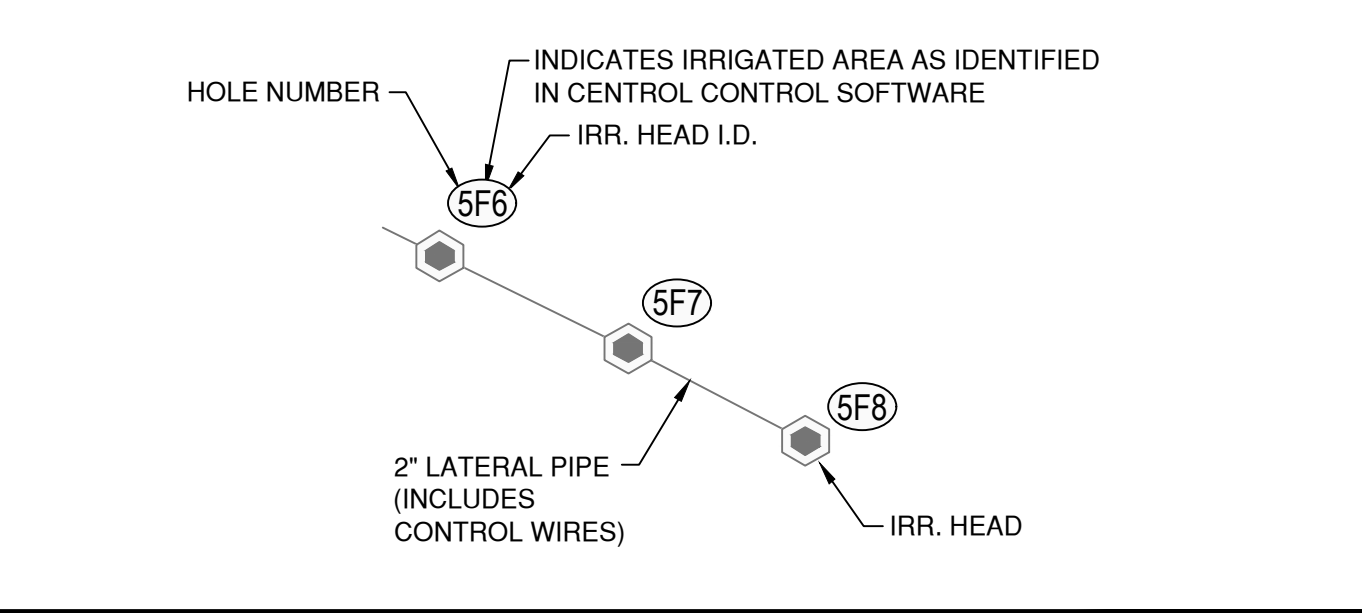
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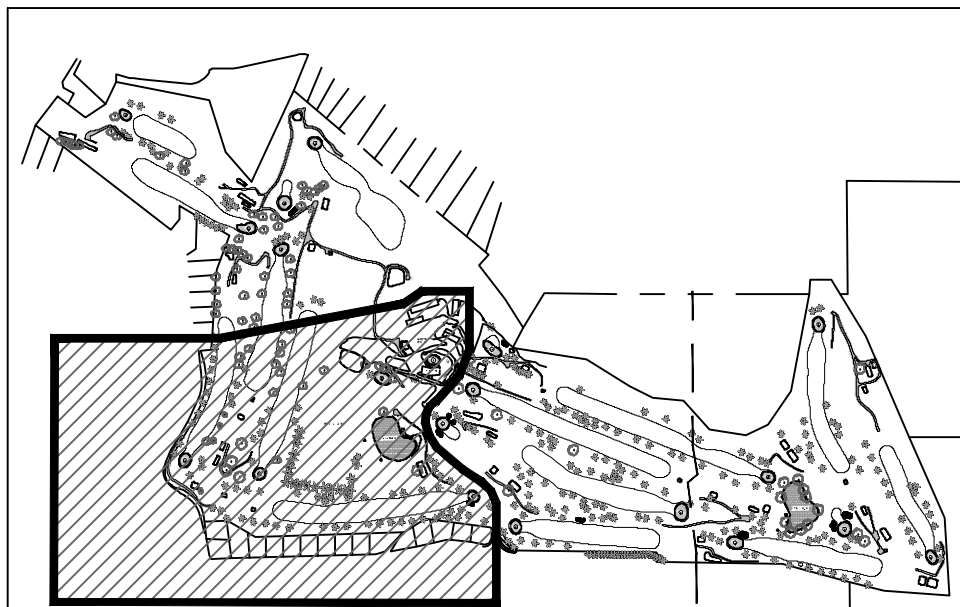


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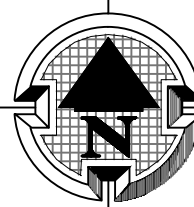
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HEAD	COMPANY & CAT. NO.	RADIUS	G.P.M.	P.S.I.
⬢	RAIN BIRD A-752-IC-70-#28	58'	17.6	70
⬢	RAIN BIRD A-752-IC-70-#28	58'	17.6	70
⬢	RAIN BIRD A-702-IC-70-#36	70'	28.3	80
⬢	RAIN BIRD A-752-IC-70-#40	68'	27.9	80
⬢	HUNTER MP2000 ROTATOR	14'-20'	43-1.48	40
⬢	HUNTER MP3000 ROTATOR	22'-30'	86-3.64	40



MATCH LINE - SEE SHEET 13



PLAN KEY



SCALE: 1" = 60'-0"

60' 30' 0' 60' 120'

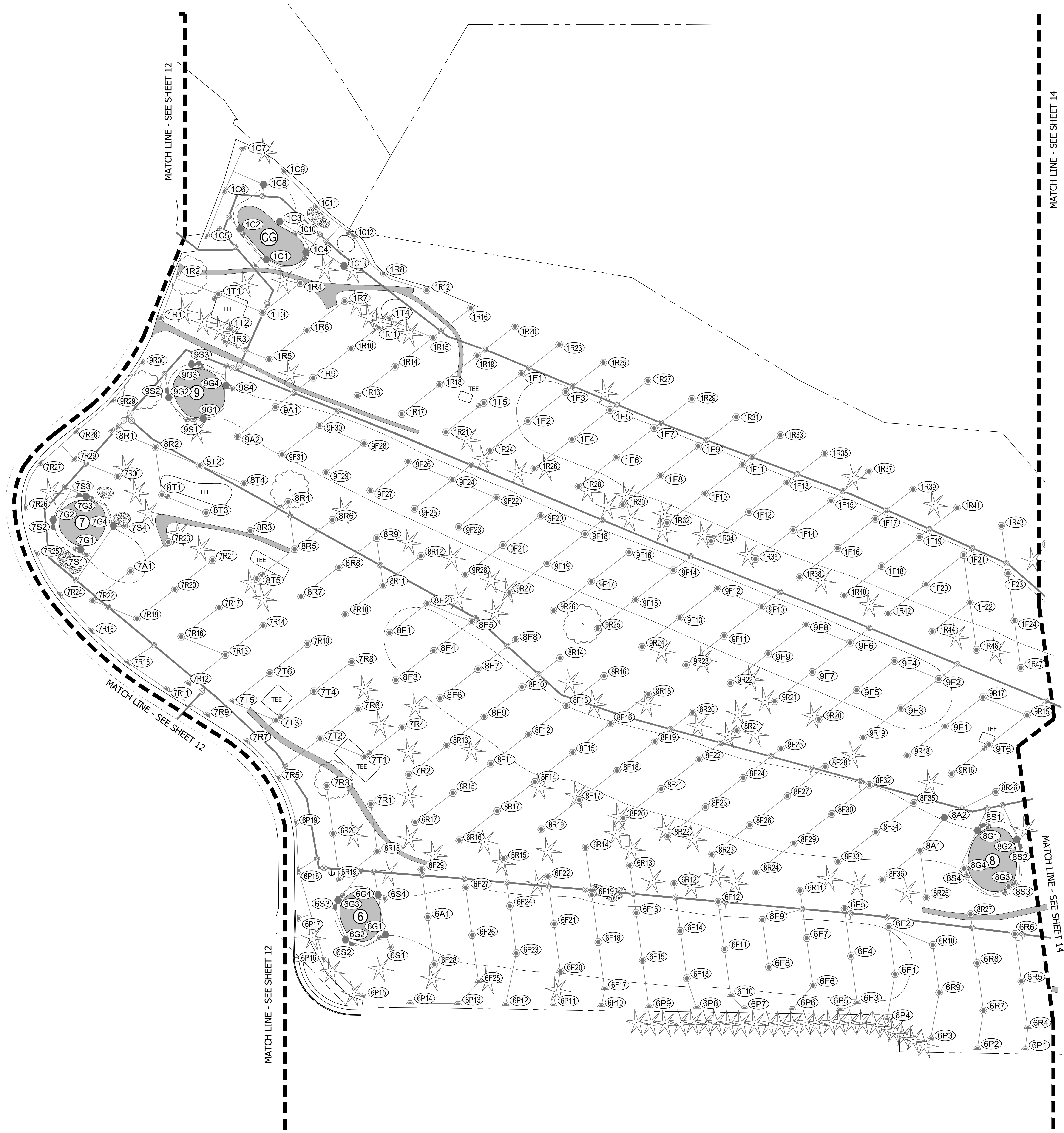
LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



REVISIONS		
REV.	DATE	DESCRIPTION

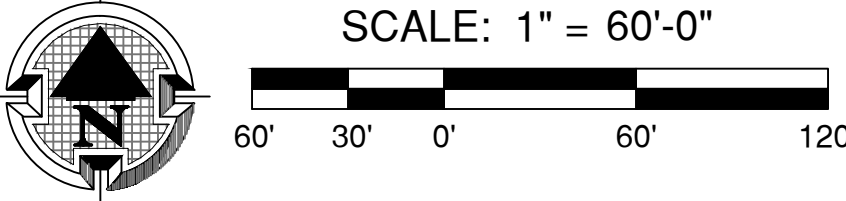
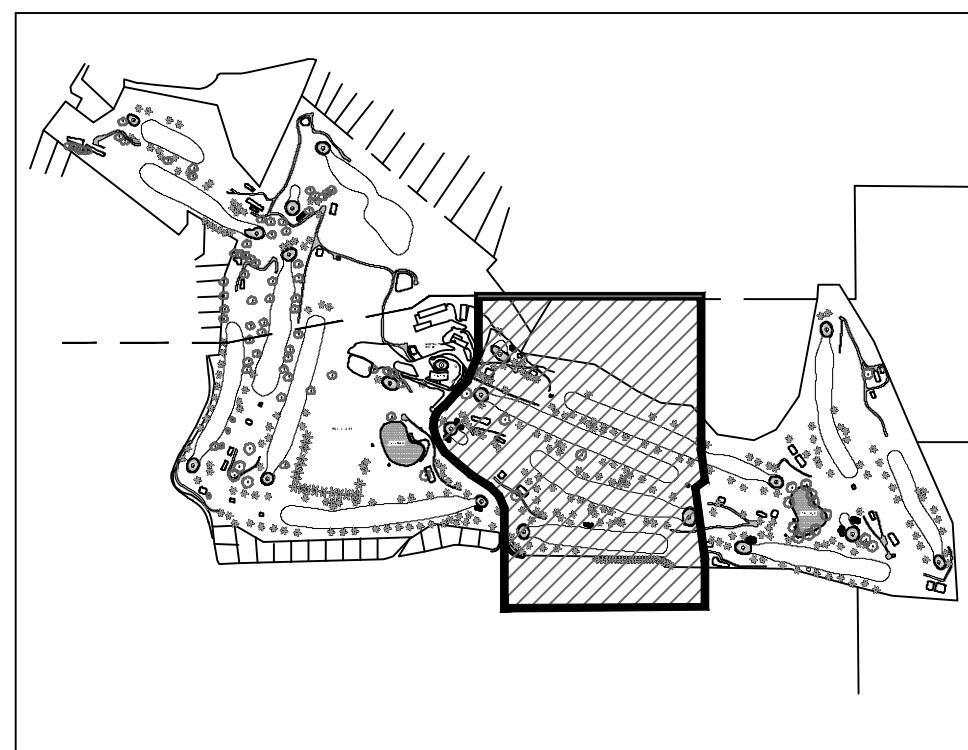
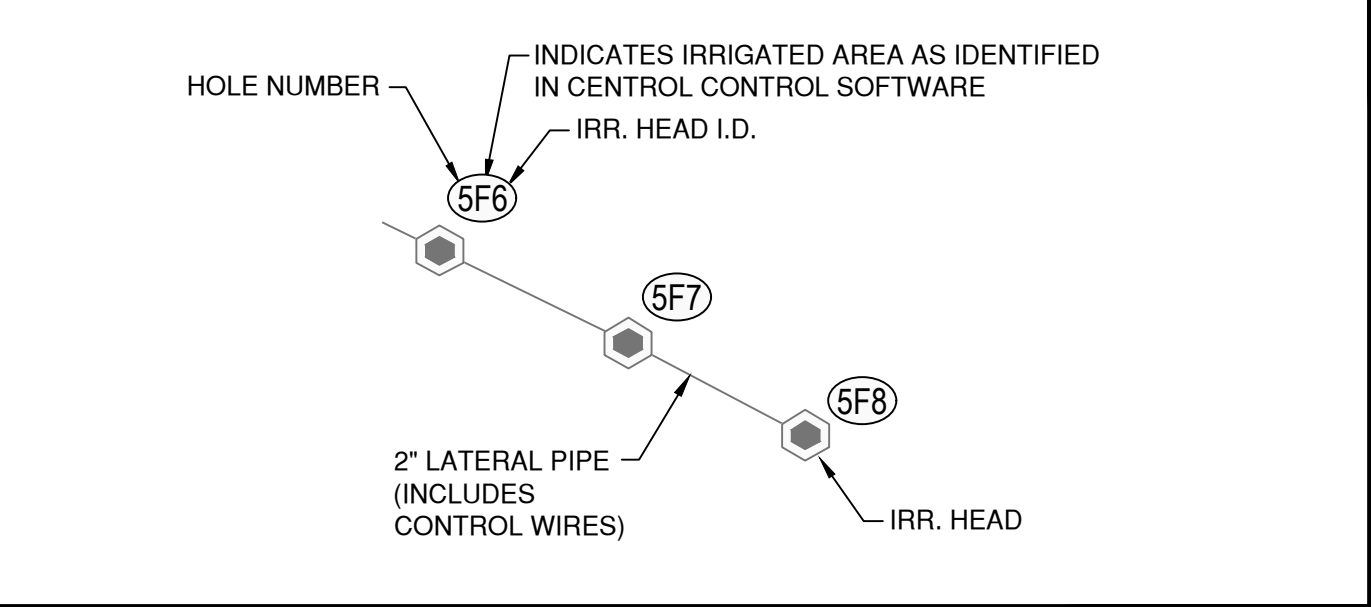
SHEET NAME:
IRRIGATION
HEAD ID PLAN

DRAWN BY: TAM
CHECKED BY: TAM
ISSUE DATE: 11/21/2023
JOB NO.: 2311



GENERAL KEY	
8" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE (SIZE AS NOTED)
2" Lateral Line	2" HDPE (DR11) LATERAL PIPE UNLESS OTHERWISE NOTED (INCLUDES 14 GA. MAXI CONTROL 2-WIRE)
⊗	2" LATERAL LINE ISOLATION VALVE - REFER TO DETAIL 'G'
⊗	MAINLINE GATE VALVE (SAME SIZE AS MAINLINE) - REFER TO DETAIL 'B'
⊗	RAIN BIRD 150PSI AUTOMATIC CONTROL VALVE (UNLESS OTHERWISE NOTED) - REFER TO DETAIL 'N' AND 'O'
⊕	1" AIR RELEASE VALVE - REFER TO DETAIL 'C'
⊕	1" RAIN BIRD 50C QUICK COUPLER VALVE - REFER TO DETAIL 'D'

HEAD KEY (REFER TO DETAILS 'E', 'K' AND 'L')				
HEAD	COMPANY & CAT. NO.	RADIUS	G.P.M.	P.S.I.
⬢	RAIN BIRD A-752-IC-70-#28	58'	17.6	70
⬢	RAIN BIRD A-752-IC-70-#28	58'	17.6	70
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⬢	RAIN BIRD A-752-IC-70-#40	68'	27.9	80
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⬢	HUNTER MP3000 ROTATOR	22'-30'	86-3.64	40



LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



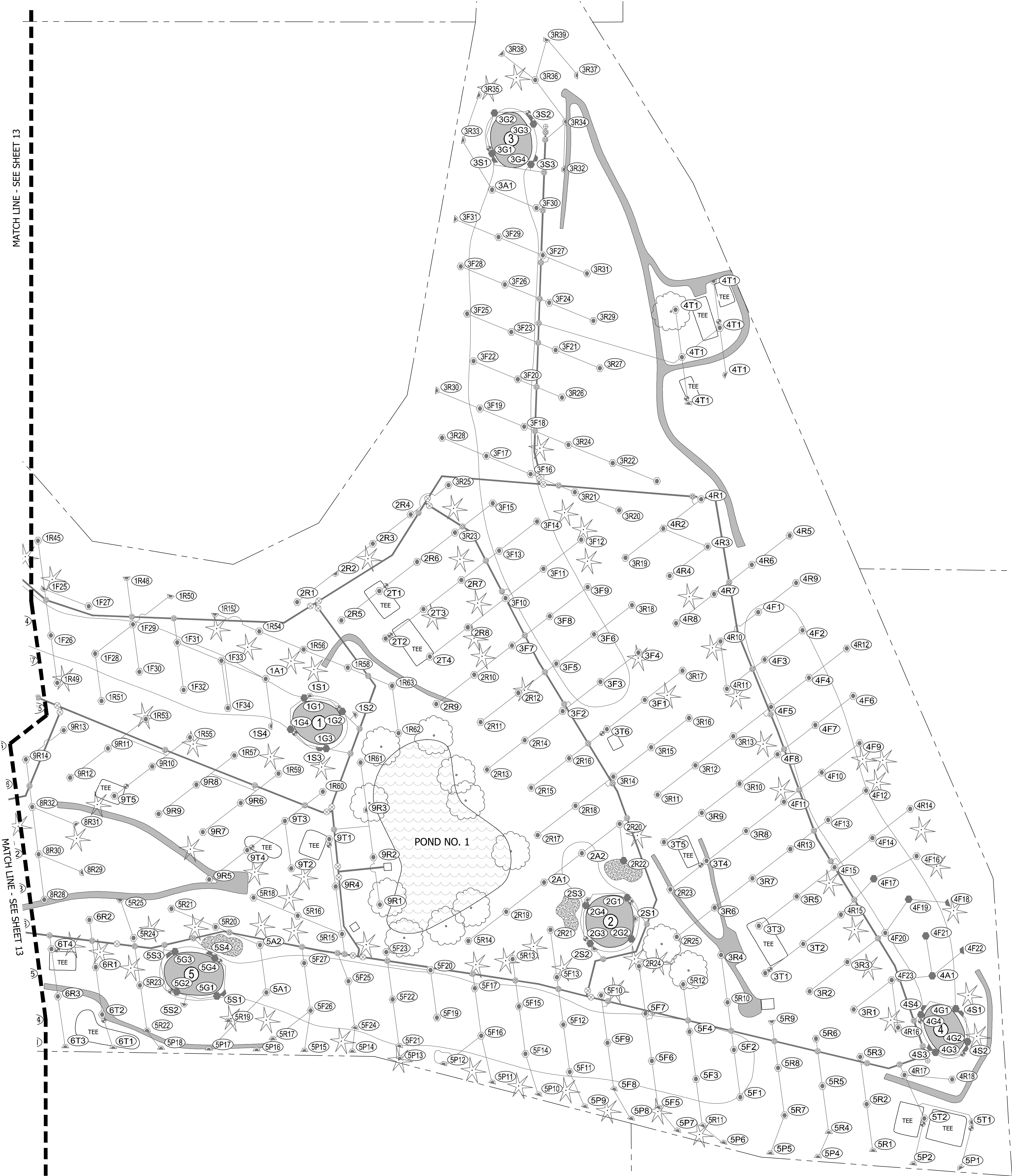
REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
HEAD ID PLAN

DRAWN BY: TAM
CHECKED BY: TAM
ISSUE DATE: 11/21/2023
JOB NO.: 2311

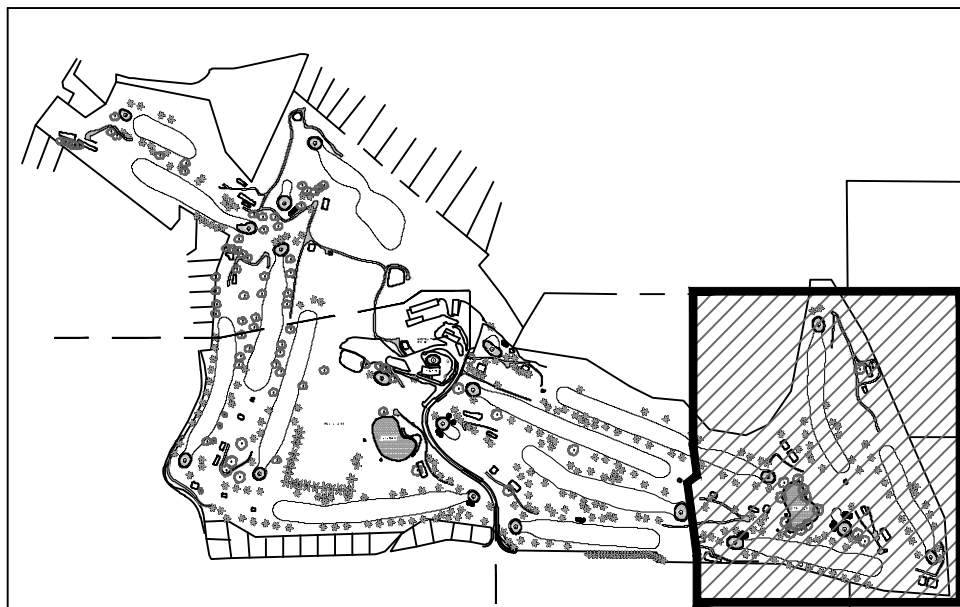
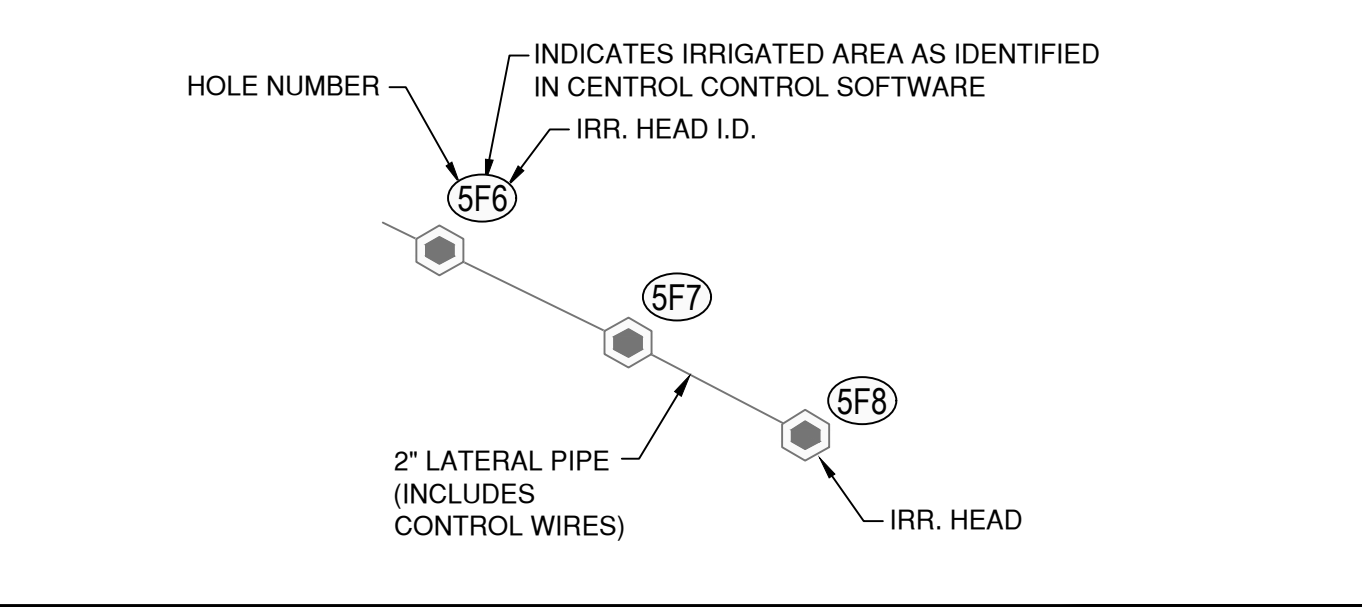
MATCH LINE - SEE SHEET 13

MATCH LINE - SEE SHEET 13



GENERAL KEY	
8" ML	HDPE (DR11) BUTT-FUSED IRRIGATION MAINLINE (SIZE AS NOTED)
2" HDPE (DR11) LATERAL PIPE UNLESS OTHERWISE NOTED (INCLUDES 14 GA. MAXI CONTROL 2-WIRE)	
2" LATERAL LINE ISOLATION VALVE - REFER TO DETAIL 'G'	
MAINLINE GATE VALVE (SAME SIZE AS MAINLINE) - REFER TO DETAIL 'B'	
RAIN BIRD 150PSI AUTOMATIC CONTROL VALVE (UNLESS OTHERWISE NOTED) - REFER TO DETAIL 'N' AND 'O'	
1" AIR RELEASE VALVE - REFER TO DETAIL 'C'	
1" RAIN BIRD SRC QUICK COUPLER VALVE - REFER TO DETAIL 'D'	

HEAD KEY (REFER TO DETAILS 'E', 'K' AND 'L')				
HEAD	COMPANY & CAT. NO.	RADIUS	G.P.M.	P.S.I.
	RAIN BIRD A-752-IC-70-#28	58'	17.6	70
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	RAIN BIRD A-752-IC-70-#40	68'	27.9	80
	HUNTER MP2000 ROTATOR	14'-20'	43-1.48	40
	HUNTER MP3000 ROTATOR	22'-30'	86-3.64	40



PLAN KEY



MEARS
DESIGN & CONSULTING
IRRIGATION DESIGN AND CONSULTING
PO BOX 55339 | SEASIDE, WA 98138
PHONE: 509.601.4516 | FAX: 509.924.4666

PRELIMINARY
NOT FOR
CONSTRUCTION
TROY A. MEARS
LICENSE NO. 1074
EXPIRES ON 06/30/2025
LANDSCAPE ARCHITECT

LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT

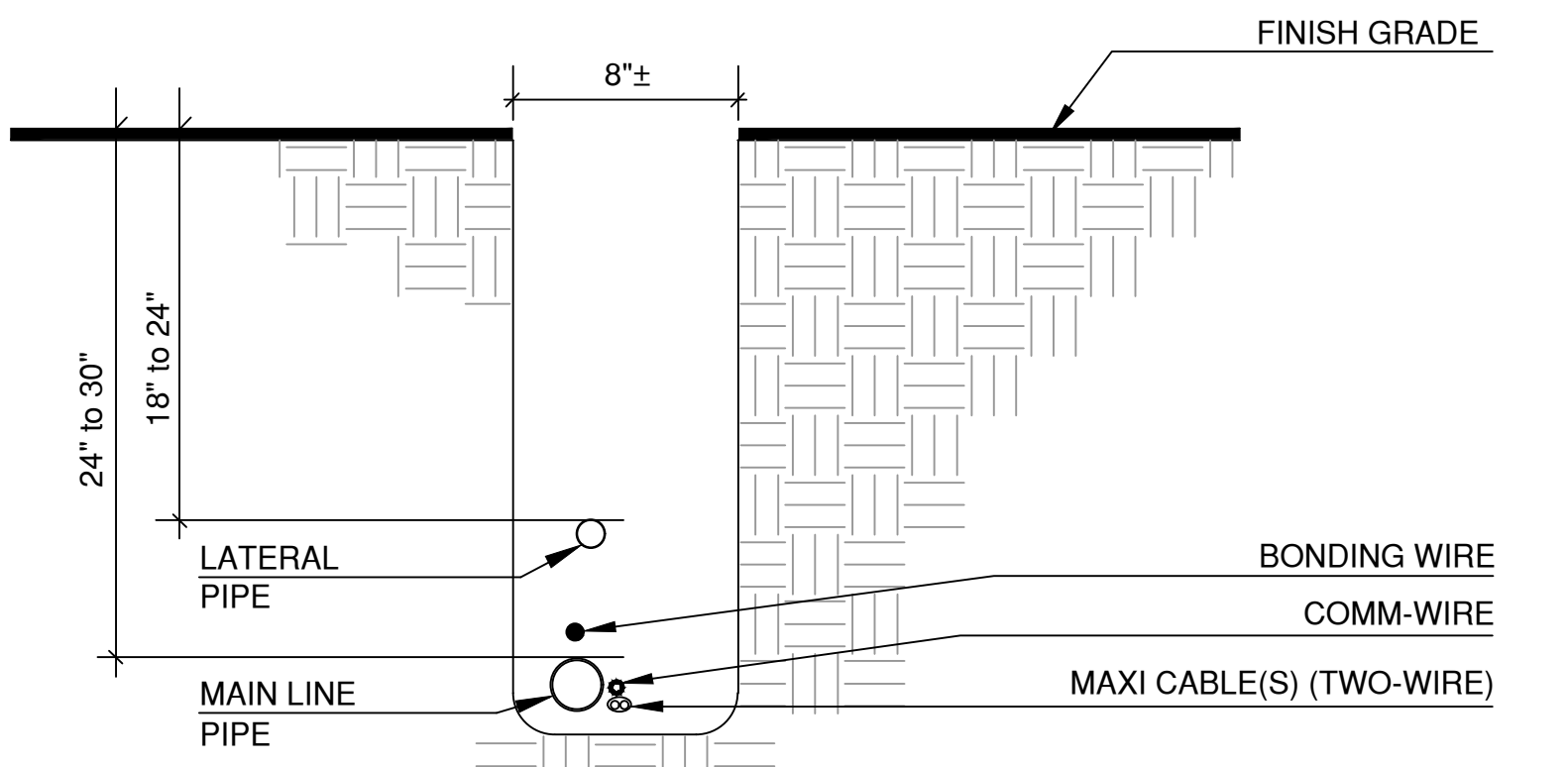


REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
HEAD ID PLAN

DRAWN BY: TAM
CHECKED BY: TAM
ISSUE DATE: 11/21/2023
JOB NO.: 2311

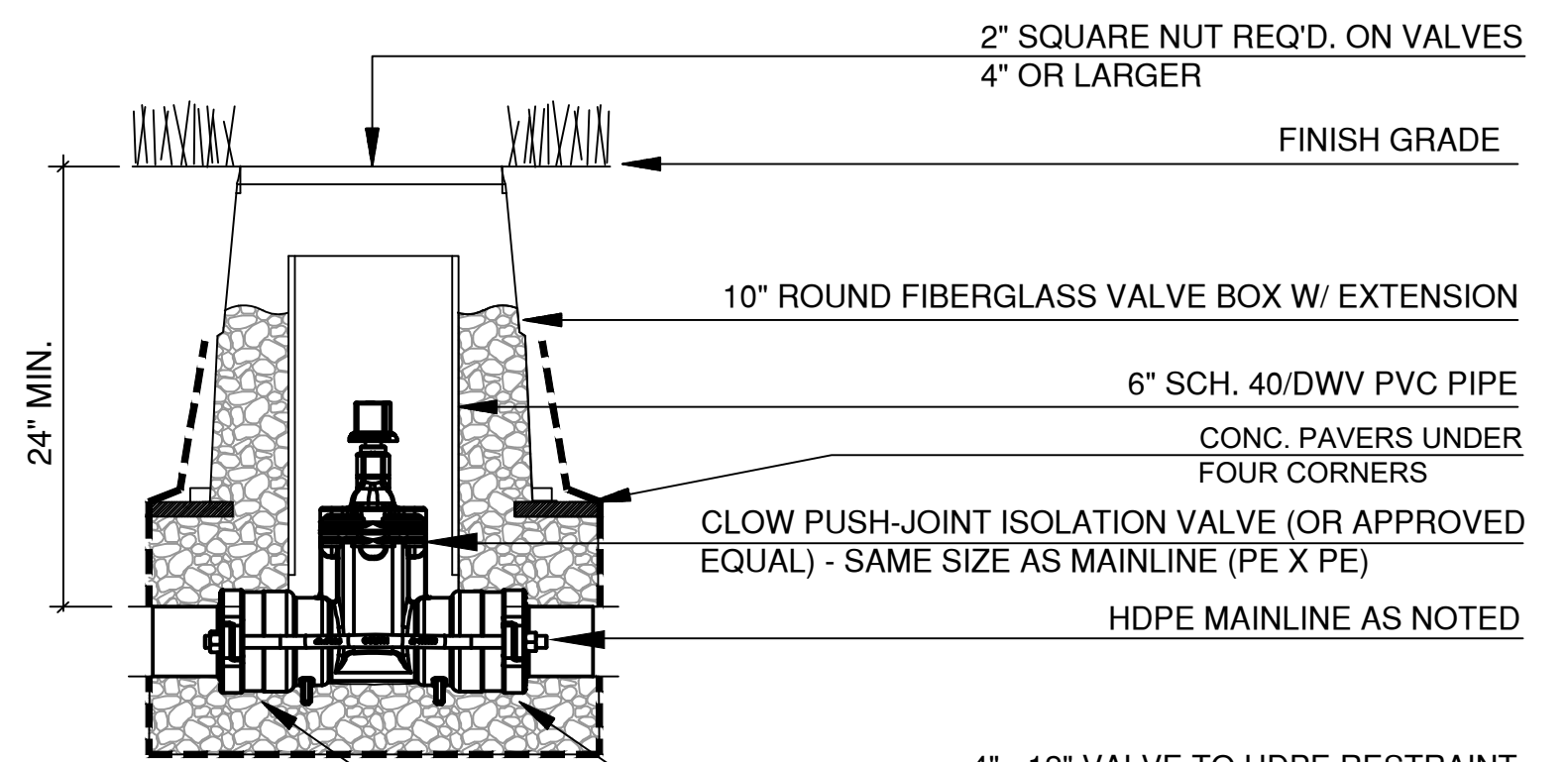
SHEET:
14
OF 17
90% SET



1. THE BONDING WIRE SHALL BE A #10 AWG SOLID CORE BARE COPPER WIRE.
2. THE BONDING WIRE SHALL BE LAID IN THE TRENCH AS STRAIGHT AS POSSIBLE AND POSITIONED APPROXIMATELY FOUR INCHES (4") ABOVE THE PIPE AND TWELVE TO EIGHTEEN INCHES (12" TO 18") BELOW GRADE.
3. ALL BENDS SHALL BE MADE AS A GENTLE SWEEP THEREBY REDUCING IMPEDANCE. THE BONDING WIRE SHALL BE CONNECTED TO ALL LSP-1 SURGE PROTECTORS USING A RAIN BIRD DB SERIES SPLICE KIT. CONNECTIONS TO A GROUND ROD SHALL BE MADE WITH A UL LISTED ACORN CLAMP.
4. GROUND RODS OR GROUND PLATES SHALL BE INSTALLED PER RAIN BIRD RECOMMENDATIONS OF ONE (1) ROD OR PLATE EVERY 500 FEET OR 8 DECODERS (WHICHEVER IS LESS) WITH 50 OHMS OR LESS OF GROUND RESISTANCE.

A TRENCH DETAIL

N.T.S.

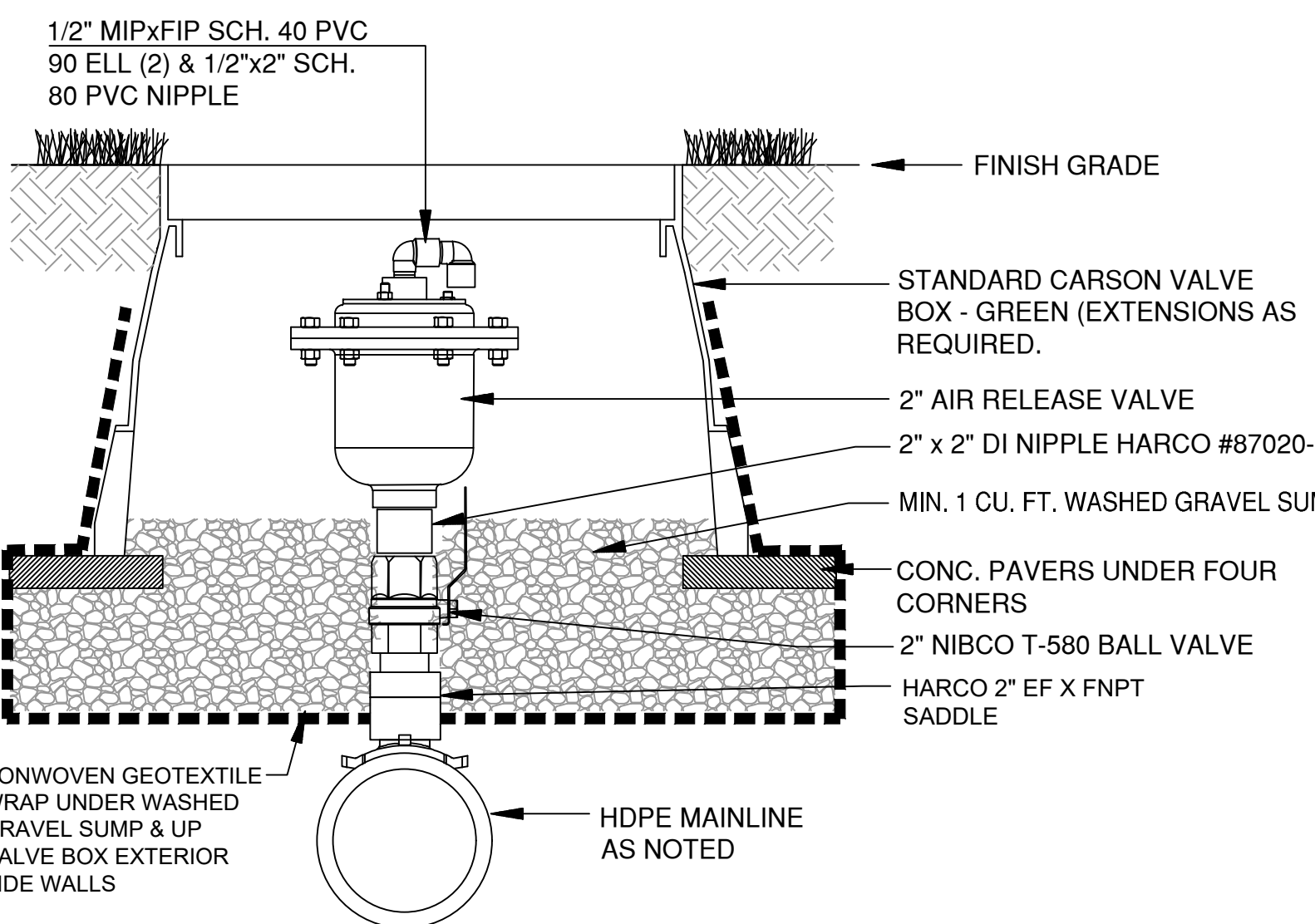


HARCO PE Push Joint Adapter for Push Joint Gate Valve.
3"-8" Utilize (2) Restraint Rods.
10" & 12" Utilize (4) Restraint Rods. (3" Shown)

2" SQUARE NUT REQ'D. ON VALVES
4" OR LARGER
FINISH GRADE
10" ROUND FIBERGLASS VALVE BOX W/ EXTENSION
6" SCH. 40/DWV PVC PIPE
CONC. PAVERS UNDER FOUR CORNERS
CLOW PUSH-JOINT ISOLATION VALVE (OR APPROVED EQUAL) - SAME SIZE AS MAINLINE (PE X PE)
HDPE MAINLINE AS NOTED
4" - 12" VALVE TO HDPE RESTRAINT, P.J. ADAPTER EACH SIDE
HARCO PT# 65-3175xx
P.J. RESTRAINT
HARCO PT# 65-0775xxS
"xx" - CODE FOR DIA OF MAINLINE PIPE

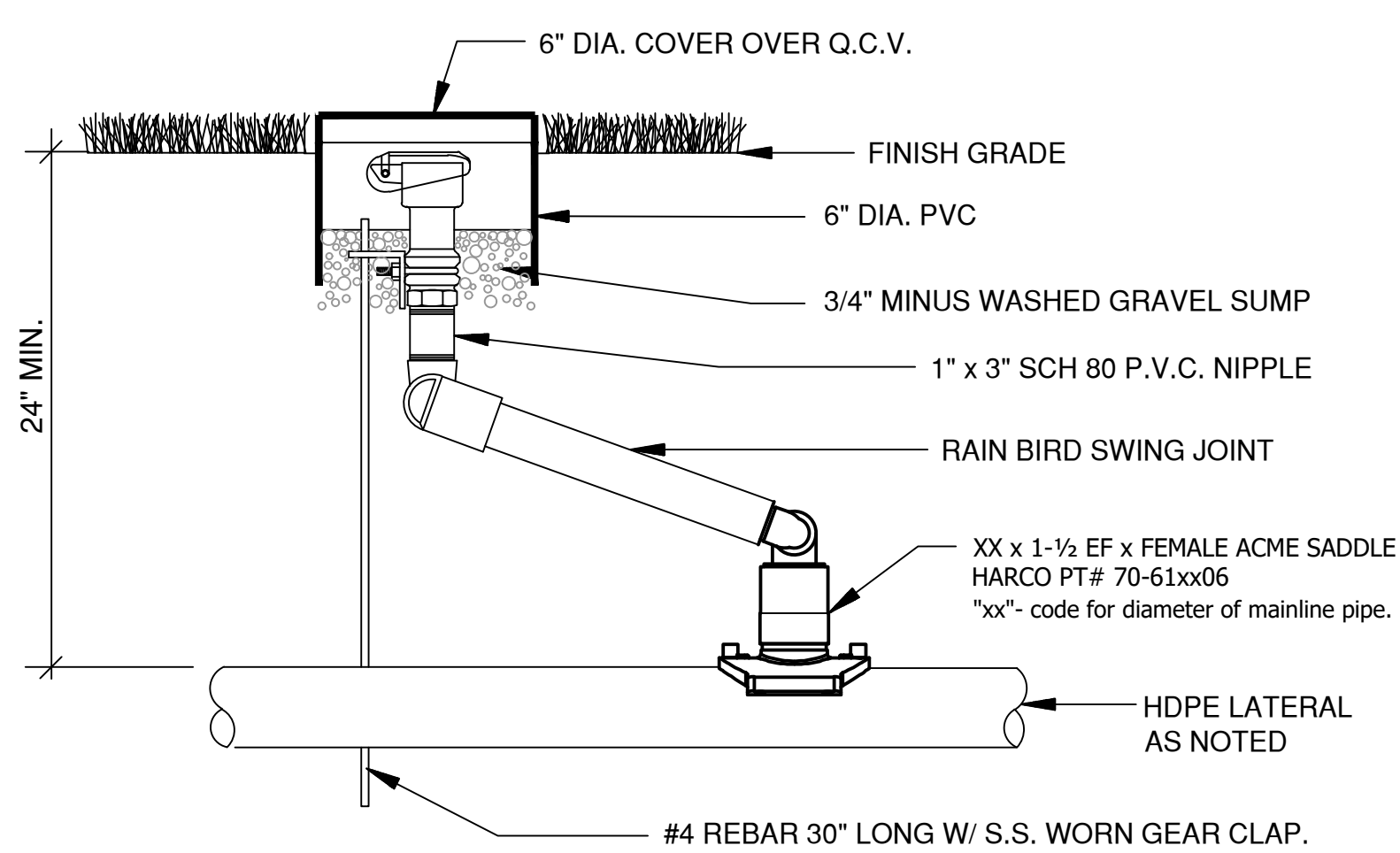
B ISOLATION / GATE VALVE DETAIL

NTS



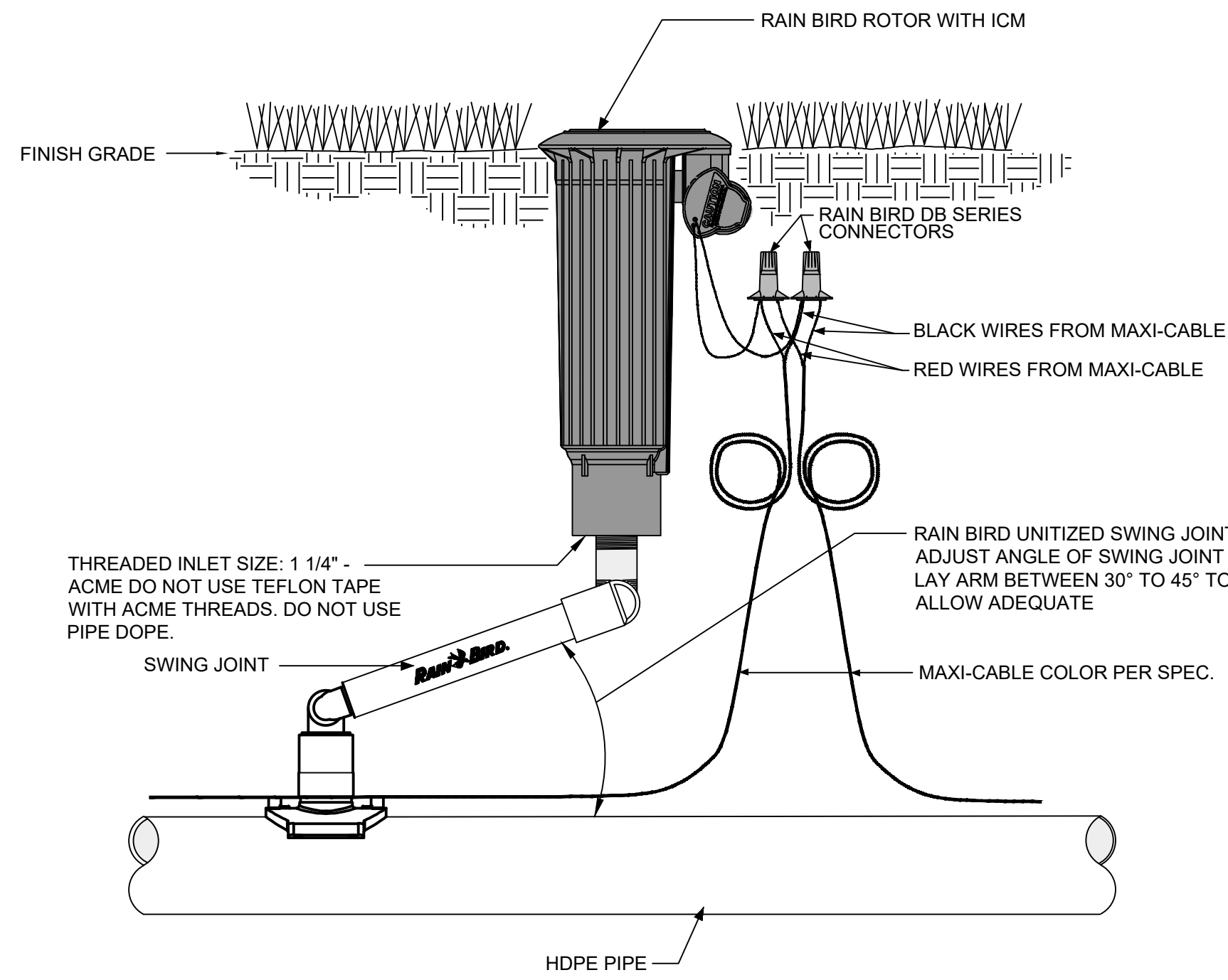
C AIR RELEASE VALVE DETAIL

NTS



D QUICK-COUPLING VALVE DETAIL (1")

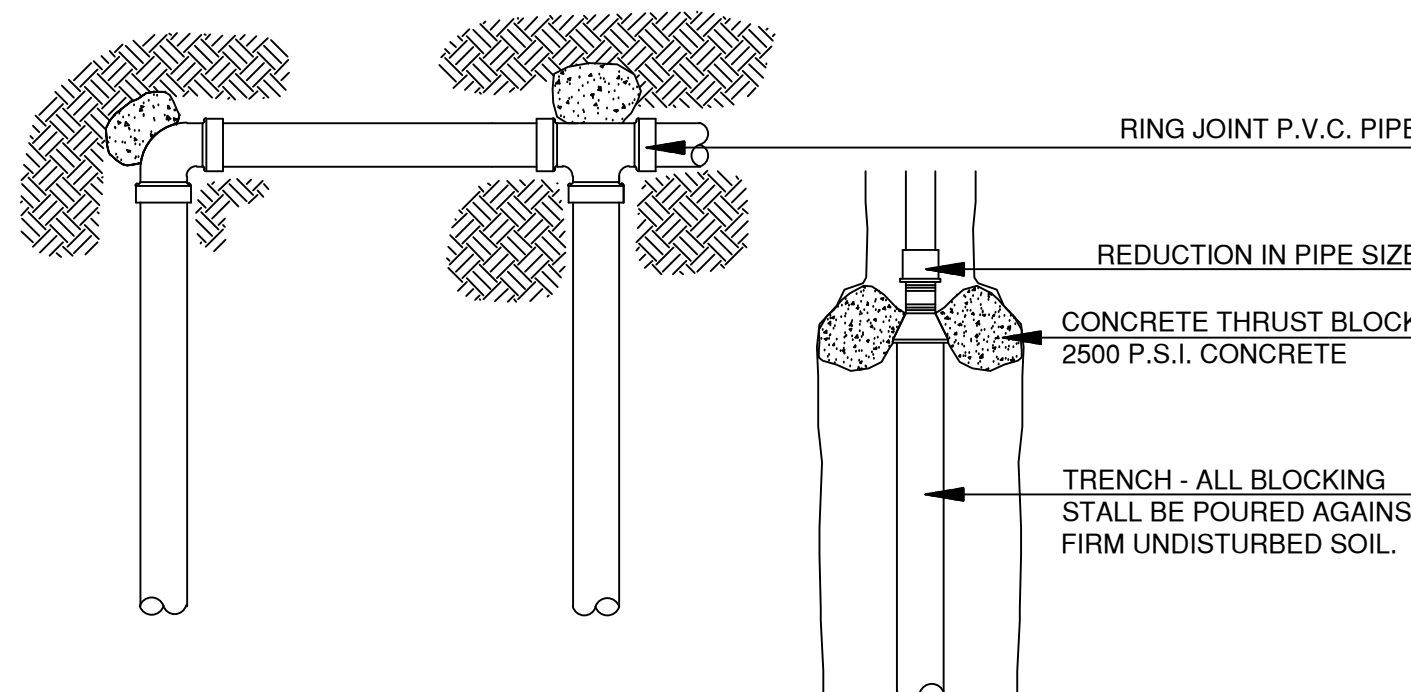
NTS



- NOTE:
1. AT ALL SPLICE LOCATIONS, PROVIDE SUFFICIENT SLACK TO ALLOW THE SPLICE TO BE RAISED A MINIMUM OF 24" ABOVE GRADE FOR INSPECTION.
 2. THE LOCATION OF THE WIRE CONNECTIONS SHALL BE SNUGLY PLACED BENEATH THE FLANGE OF THE ROTOR.

E ICM WITH VALVE IN HEAD ROTOR (OR APPROVED EQUAL)

N.T.S.

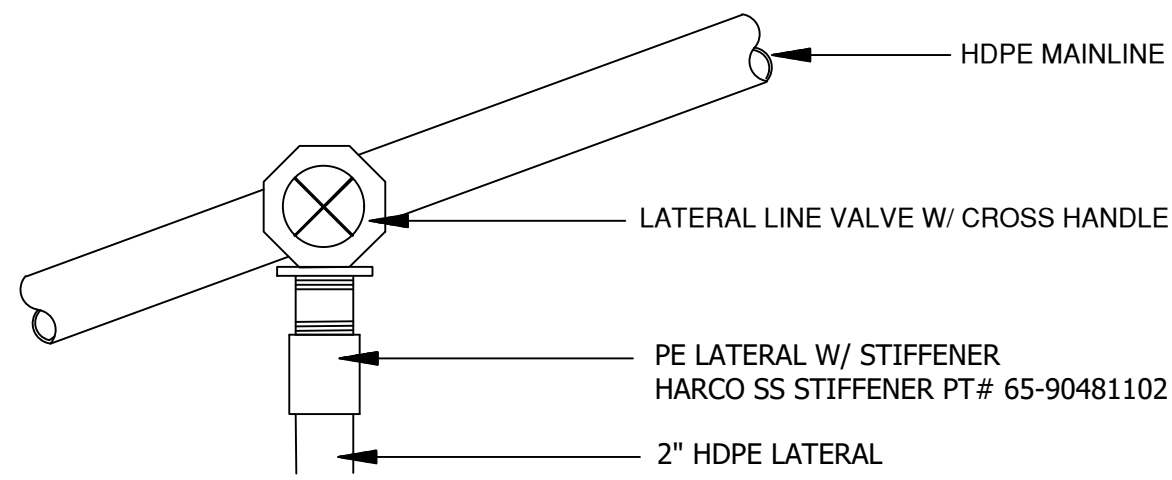


BEARING AREA OF THRUST BLOCKS IN SQ. FT.

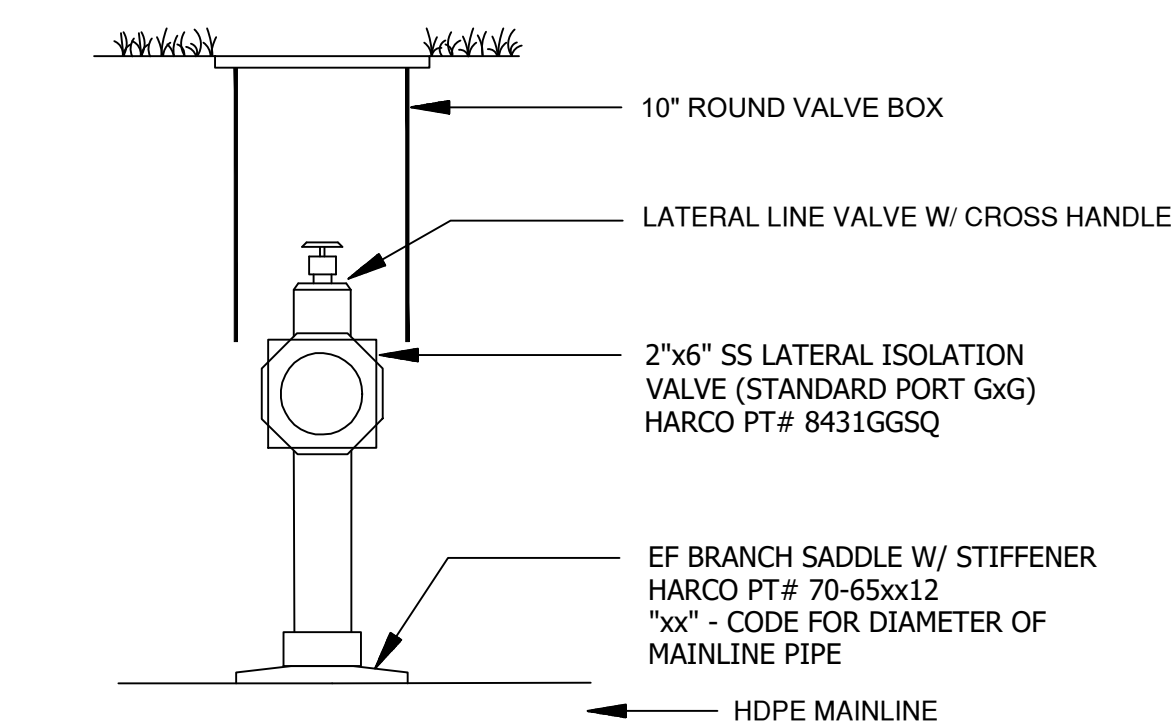
FITTING SIZE	TEE, WYE, PLUG OR CAP	90 BEND PLUGGED CROSS	TEE PLUGGED ON RUN	45 BEND	22-1/2 BEND	11-1/4 BEND
	A-1	A-2	A-1	A-2		
4	1.8	2.6	3.6	2.5	1.4	0.7
6	3.7	5.3	7.4	5.2	2.9	1.5
8	6.4	9.1	12.8	9.1	4.9	2.5
10	9.7	13.7	19.4	13.7	7.4	3.8
12	13.7	19.4	27.4	19.4	10.5	5.3

F THRUST BLOCKS DETAILS REQ'D. ON MAINLINE

NTS



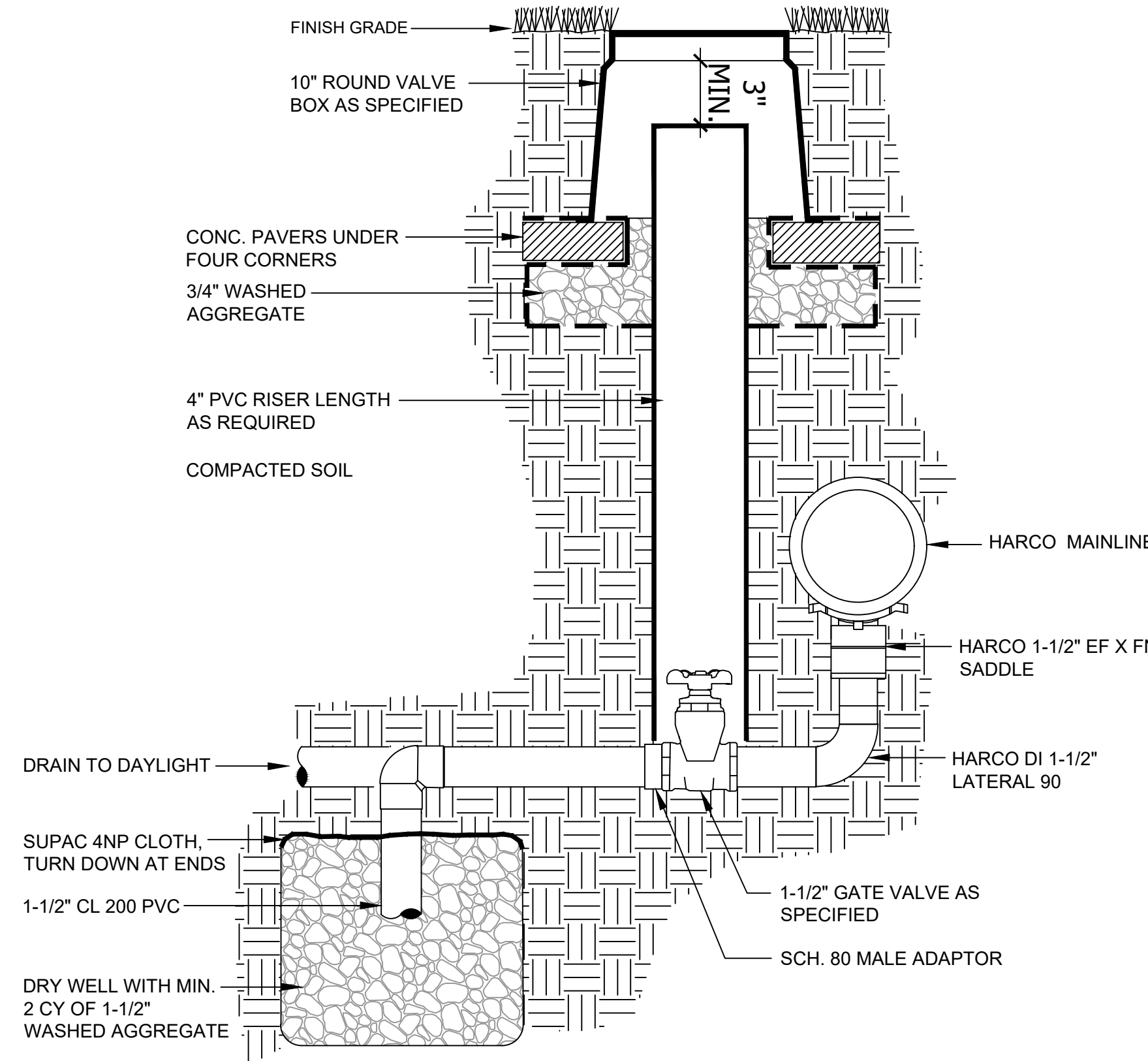
PLAN VIEW



ELEVATION VIEW

G LATERAL LINE VALVE DETAIL

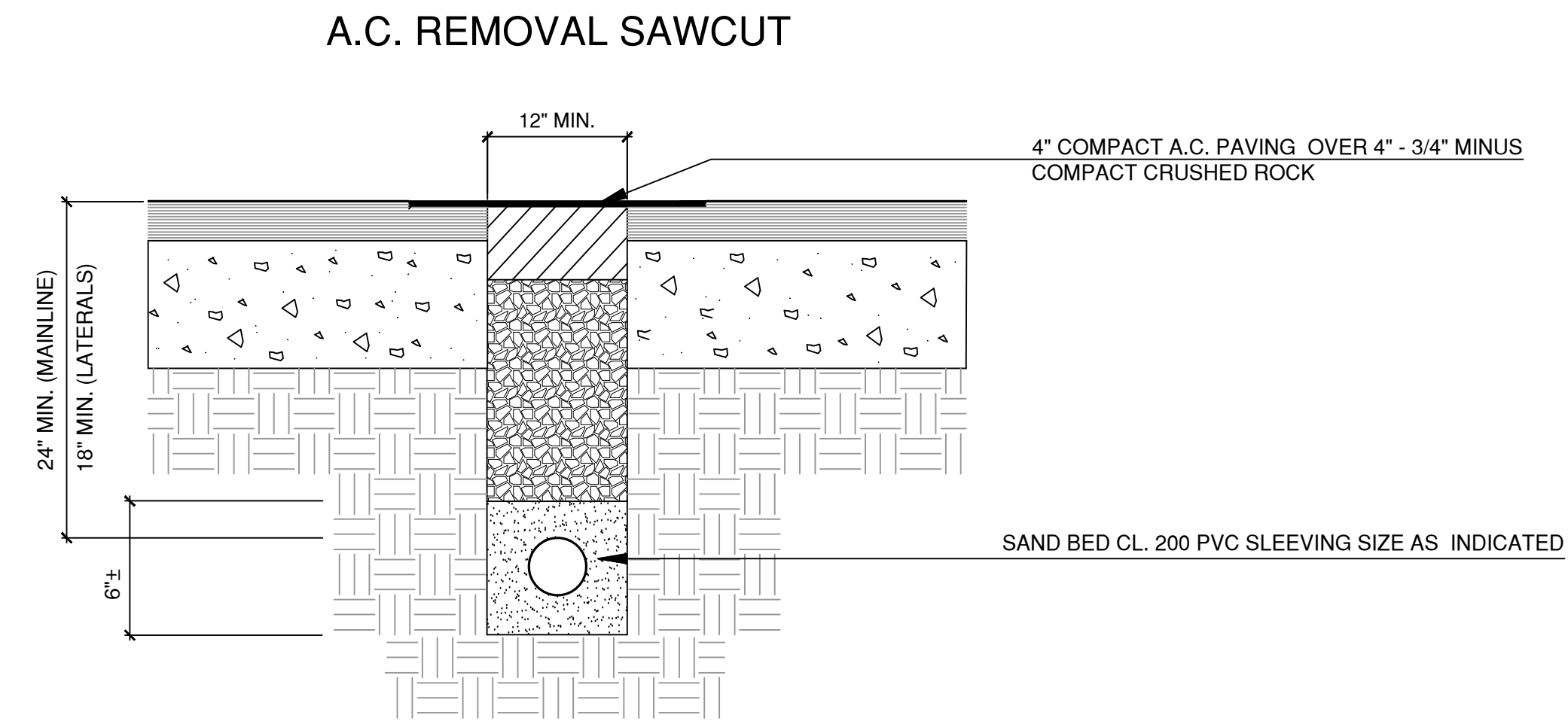
NTS



- NOTES:
1. DRAIN TO DAYLIGHT WHEREVER POSSIBLE. TRANSITION TO STEEL PIPE 36" BEFORE END OF PIPE.

H TYPICAL MAINLINE DRAIN

N.T.S.



- NOTE:
- IRRIGATION CONTRACTOR RESPONSIBLE FOR ALL A.C. REMOVAL, SLEEVING, BACKFILL, & PAVING AS REQUIRED.

J IRRIGATION CART PATH CROSSING SAWCUT & PATCH DETAIL

(ONLY USE THIS DETAIL IF SAWCUT IS DESIRED AT CART PATH/WALKWAY CROSSINGS)

NTS



REVISIONS

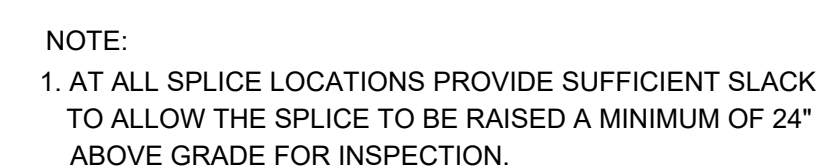
REV.	DATE	DESCRIPTION

SHEET NAME:
**IRRIGATION
DETAILS & NOTES**

DRAWN BY: TAM
CHECKED BY: TAM
ISSUE DATE: 11/21/2023
JOB NO.: 2311

SHEET:

1. EACH CENTRAL ASSEMBLY CAN ACCOMMODATE UP TO THREE (3) MGP-1 GROUND PLATES FOR A TOTAL OF SIX (6) WIRE PATHS.
2. IF REQUIRED, A SECOND GROUND ASSEMBLY SHALL BE INSTALLED WITHIN 10' (FT) OF THE FIRST ASSEMBLY TO ACCOMMODATE WIRE PATHS 7 THRU 12. RODS SHALL BE BONDED TOGETHER USING #6-1 BARE COPPER WIRE.
3. ADDITIONAL GROUND ELECTRODES MAY BE REQUIRED IF EARTH GROUND RESISTANCE EXCEEDS 5 OHMS.



M RAIN BIRD PEB ELECTRIC VALE WITH
INTEGRATED CONTROL MODULE (ICM)

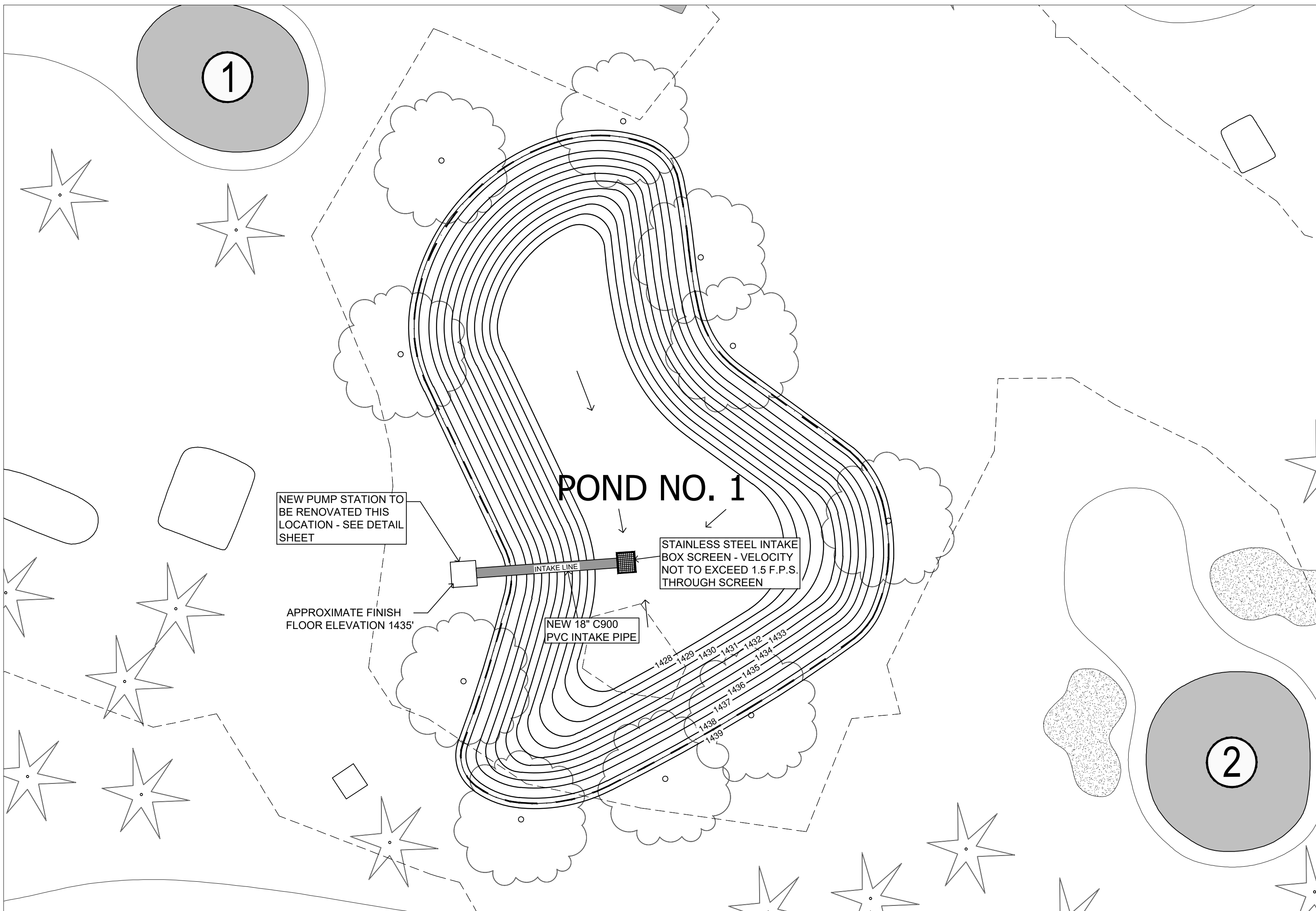
NTS



NTS



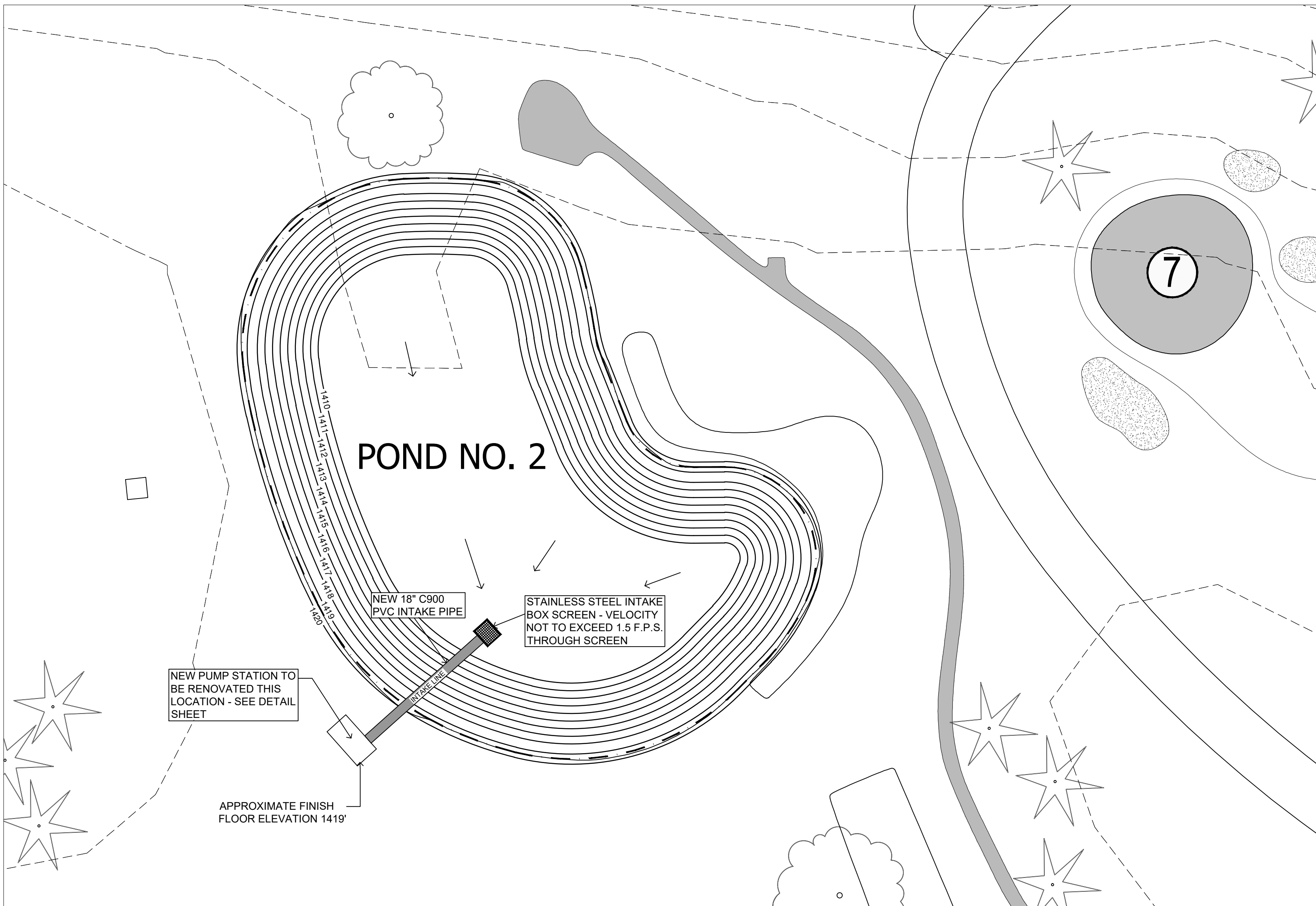
NTS



POND NO. 1 - POND LINER PLAN

APPROXIMATE VOLUME = 1.5 MILLION GALLONS

SCALE: 1" = 30'-0"



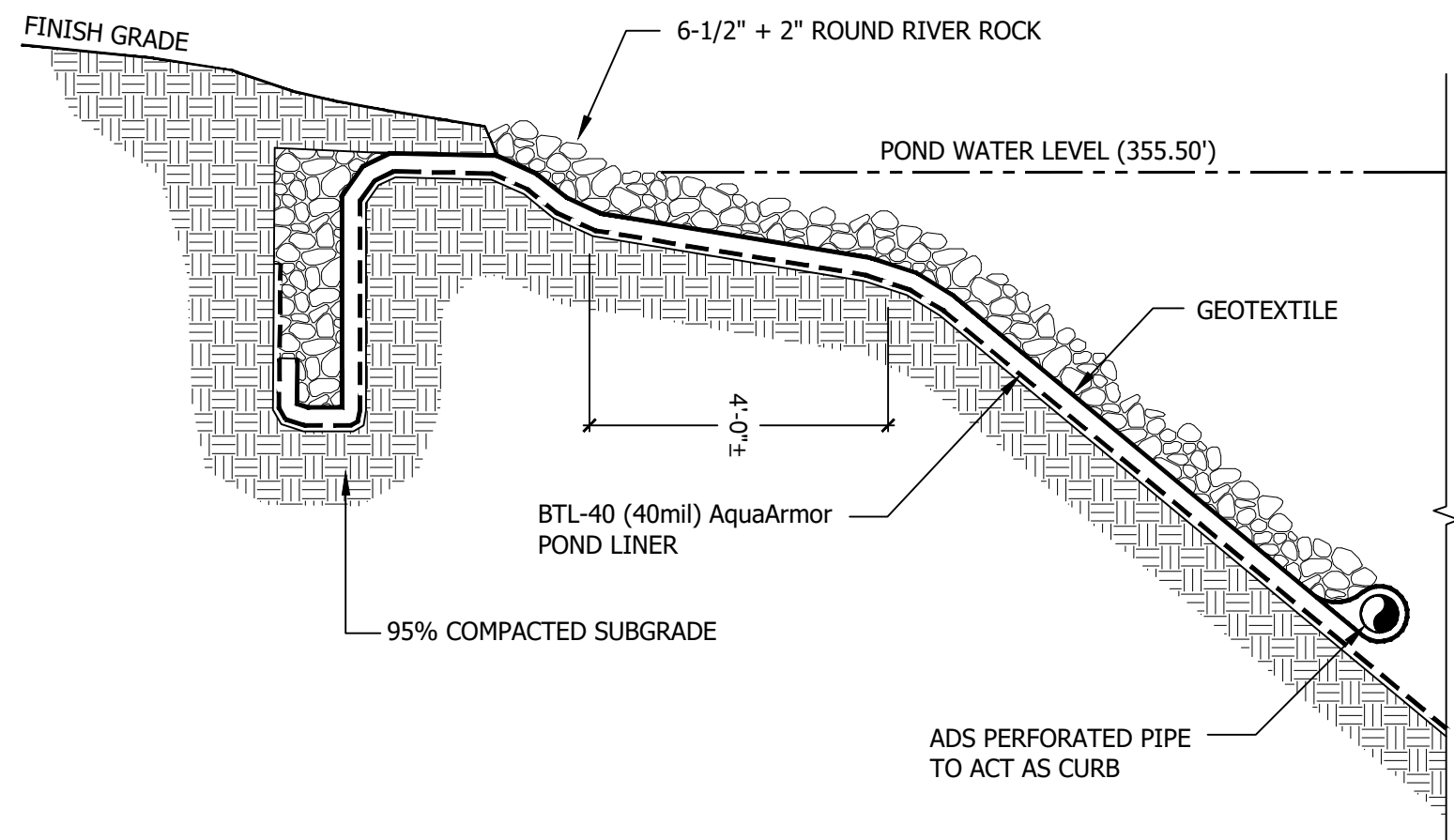
POND NO. 2 - POND LINER PLAN

APPROXIMATE VOLUME = 1.7 MILLION GALLONS

SCALE: 1" = 30'-0"



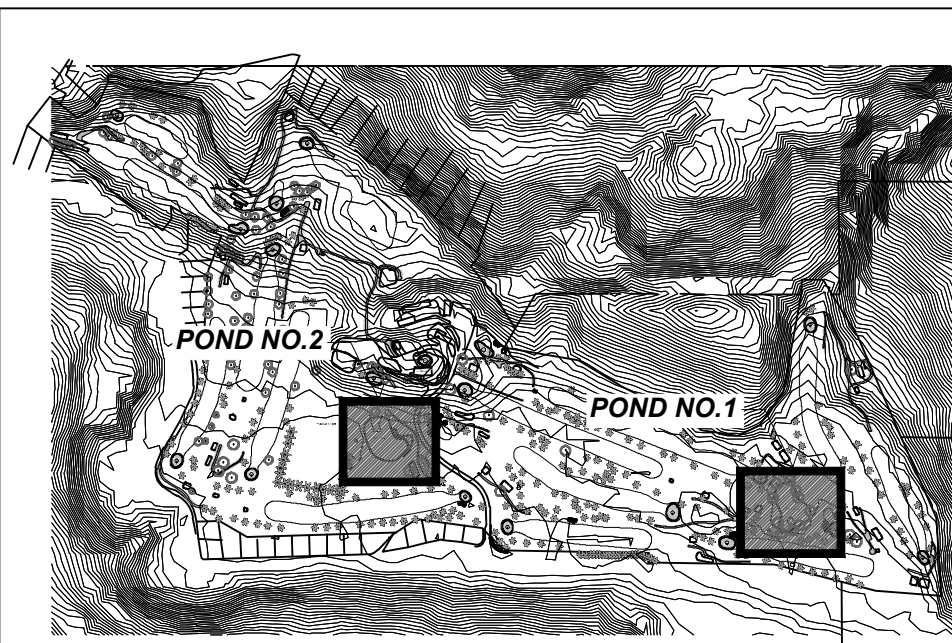
LEGEND	
SYM	DESCRIPTION
L.P. 1414.50	POND BOTTOM (LOW POINT)
1420	EXISTING CONTOURS
1420	PROPOSED CONTOURS
←	SLOPE DIRECTION



POND WATER EDGE DETAIL

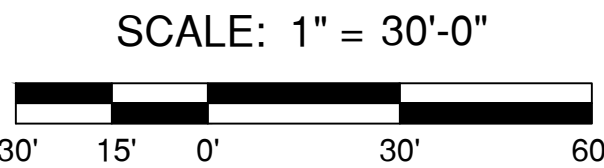
N.T.S.

- NOTES:
1. PROCEDURES FOR IRRIGATION POND WORK:
 - a. DRAIN POND AND REMOVE MINIMAL SEDIMENT FROM POND BOTTOM. SEDIMENT IS TO BE DISTRIBUTED ONSITE.
 - b. SMOOTH/SHAPE POND SIDE SLOPES AND BOTTOM IN PREPARATION FOR POND LINER TO BE PLACED.
 - c. PLACE POND LINER WITH ASSUMED (2) BOOTS, ONE FOR PUMP STATION INTAKE LINE AND ONE FOR WELL DISTRIBUTION LINE (SIZE TO BE DETERMINED).
 - d. FINALIZE POND EDGE.
 2. GRADES SHOWN ON PLANS ARE ASSUMED SIMILAR TO EXISTING. EXISTING POND IS APPROXIMATELY 10 FEET IN DEPTH.



PLAN KEY

N.T.S.



SCALE: 1" = 30'-0"

MEARS

DESIGN & GROUP

IRRIGATION DESIGN AND CONSULTING
PO BOX 253339 | TACOMA, WA 98151-0739
PHONE: 509.861.4516 | FAX: 509.864.4666

PRELIMINARY

NOT FOR CONSTRUCTION

STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT

TROY A MEARS
LICENSE NO. 10714
EXPIRES ON 06/30/2025

LAKE CHELAN GOLF COURSE
IRRIGATION RENOVATION PROJECT



REVISIONS		
REV	DATE	DESCRIPTION

SHEET NAME:
IRRIGATION
POND LINER PLAN

DRAWN BY: TAM
CHECKED BY: TAM
ISSUE DATE: 11/21/2023
JOB NO.: 2311

SHEET:
17
OF 17
90% SET