

## Nelson, Dan

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**From:** Roxanne Brown <RBrown@spfwater.com>  
**Sent:** Friday, January 19, 2018 12:19 PM  
**To:** Nelson, Dan  
**Cc:** Alexis Clark  
**Subject:** RE: Question on Field Report for Permit 63-33669

Dan – The applicant is currently discussing how to proceed with ownership. It's a big organization and this process is taking longer than expected. I'll contact them today and see if I can move it forward!

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### Roxanne Brown | Sr. Water Right Specialist

SPF Water Engineering, LLC

300 E Mallard Drive, Suite 350 | Boise, ID 83706

p. 208.383.4140 | f. 208.383.4156 | d. 208.489.2136

e. [rbrown@spfwater.com](mailto:rbrown@spfwater.com) | c. 208.859.8428

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**From:** Nelson, Dan [mailto:Dan.Nelson@idwr.idaho.gov]  
**Sent:** Friday, January 19, 2018 12:01 PM  
**To:** Roxanne Brown <RBrown@spfwater.com>  
**Cc:** Alexis Clark <AClark@spfwater.com>  
**Subject:** RE: Question on Field Report for Permit 63-33669

Roxanne,

I am trying to provide this type of feedback to the certified examiners, so we can reduce the number of field exams we have to return. It costs everyone time and money, and it really does tax are limited resources. We need to understand the overlapping water rights and how they integrate with the system. In this case, the blue prints show that there is actually very little if any irrigation storage happening in this system. Once the pond level starts dropping the float valve on the pond kicks on the well, so we really have a flow through type system, and then the canal water brings the pond back up to level after the irrigation system is done. We need to understand how that works to determine if we need to account for multiple fills or not. I am always trying to find a way to give everyone as much water as they are legally entitled to get.

**On another note:** I did just receive the file back from Shelley's review and he expressed some concern that we have not received the change of ownership from them yet. The reason he asked is that there are overlapping conditions that need to be placed on this permit, and were not positive of what portion of the right the church owns until we receive the change of ownership document. Do you know when they will get the change of ownership for water right 63-4935 filed? Typically, the change of ownership is filed at the same time the field report is filed. Any gentle nudges you give them to submit the change of ownership would be helpful.

Thank you.

Daniel Nelson  
Water Right Analyst 3  
Idaho Department of Water Resources  
Telephone (208) 287-4856  
Fax (208) 287-6700 (attn: Dan Nelson)

Dan Nelson

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**From:** Roxanne Brown [<mailto:RBrown@spfwater.com>]  
**Sent:** Friday, January 19, 2018 10:35 AM  
**To:** Nelson, Dan <[Dan.Nelson@idwr.idaho.gov](mailto:Dan.Nelson@idwr.idaho.gov)>  
**Subject:** FW: Question on Field Report for Permit 63-33669

Dan – Thank you for your attention to detail in your communication with Alexis. It helps us understand what level of detail IDWR would like to see in the future. My goal is to provide field exams to you that don't require additional clarification...we'll see if we can get closer to that goal!

Happy Friday!

Roxanne

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**Roxanne Brown | Sr. Water Right Specialist**

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**From:** Alexis Clark  
**Sent:** Thursday, January 18, 2018 10:03 AM  
**To:** 'Nelson, Dan' <[Dan.Nelson@idwr.idaho.gov](mailto:Dan.Nelson@idwr.idaho.gov)>  
**Cc:** Roxanne Brown <[RBrown@spfwater.com](mailto:RBrown@spfwater.com)>  
**Subject:** RE: Question on Field Report for Permit 63-33669

Dan,

Yes, that is my understanding of the system as well based on the as-built documents. Thanks again for providing review comments. We look forward to the review findings.

Alexis

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**From:** Nelson, Dan [<mailto:Dan.Nelson@idwr.idaho.gov>]  
**Sent:** Thursday, January 18, 2018 9:33 AM  
**To:** Alexis Clark <[AClark@spfwater.com](mailto:AClark@spfwater.com)>  
**Subject:** RE: Question on Field Report for Permit 63-33669

Alexis,

Thank you for these diagrams. I had to go over it with our in-house engineer to figure it out, but I think I understand now. I wanted to let you know what we determined, so you could correct us if our conclusions are incorrect. Here is what we found:

The water from the canal comes onto the property at an elevation of approximately 2571 feet. This creates a head in the pipeline to Irrigation diversion structure #1. At irrigation diversion structure #1, the water elevation is kept at 2564.74 feet by allowing water to go through the Bodily Property diversions. Water from irrigation structure #1 can then go to the irrigation pump station (Elevation 2556) or go to the ponds. The pond level is at 2564.45 feet. Therefore, the water in the pipeline between the pond and irrigation structure #1 is relatively static. If the water from the pond exceeds the 2564 elevation level, water from the pond is pushed down to irrigation structure #1. If the pond falls below 2564 feet in elevation, water from the canal is pushed to the pond. The entire concept is based on maintaining the water elevation in irrigation structure #1 at 2564 feet.

Judging from the diagrams, that is how we think the system works. If you don't agree, please let know.

With this information, I have everything that I need, so I am going to move forward with process. I have everything ready to go, so I will give it to my supervisor for final review today.

Thank you for the additional information. I really appreciate it.

Daniel Nelson  
Water Right Analyst 3  
Idaho Department of Water Resources  
Telephone (208) 287-4856  
Fax (208) 287-6700 (attn: Dan Nelson)

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**From:** Alexis Clark [<mailto:AClark@spfwater.com>]  
**Sent:** Wednesday, January 17, 2018 4:31 PM  
**To:** Nelson, Dan <[Dan.Nelson@idwr.idaho.gov](mailto:Dan.Nelson@idwr.idaho.gov)>  
**Cc:** Roxanne Brown <[RBrown@spfwater.com](mailto:RBrown@spfwater.com)>  
**Subject:** RE: Question on Field Report for Permit 63-33669

Dan,

Thanks again for the follow up questions in your email below. We have sought input from The Land Group (for an as-built drawing set) and the facility manager with the LDS Meridian Temple (for clarification on the system operations). Please refer to the attached pdf as-built drawings and a pdf diagram (prepared by SPF) of the system components.

Based on site observations during the field exam and my conversations with the onsite facility manager, the following summarizes canal, well, and waste water flow:

- Canal water from Zinger Lateral is piped via gravity onsite (from the east canal) and ties into a control box with 3 gate valves ("three-way control" on diagram). From there, the canal water can either flow via a pipe to the north where it feeds into the lower pond, or to the south to serve the irrigation system.
- Well water is pumped through a smaller pipe (separate from the pipe delivering water from the Zinger Lateral) into the upper pond. From the upper pond, well water can supply the irrigation system by flowing into the lower pond through a weir controlled by water levels in the upper vs. lower pond, and then from the lower pond to the irrigation system, controlled via a pump in the irrigation control room (shown on the diagram).
- Irrigation water flows through the same pipe that delivers water to the pond from the Zinger Lateral (the pipe is designed to flow in both directions, to and from the pond as needed) and into the three-way control, then

south through a pipe to a wet well in the irrigation control room. Irrigation water is distributed throughout the property from this point. One control serves the temple and a separate control serves the meeting house.

- Overflow or wastewater flows south to the wasteway from the irrigation control room.

Please let us know if additional information is needed to support your review of the water right field exam or if you have questions. I've also cc'd Roxanne Brown as she is the project manager for our work with LDS.

Thanks,  
Alexis

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**Alexis Clark, P.G. | Project Manager | Hydrogeologist**

SPF Water Engineering, LLC

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**From:** Nelson, Dan [<mailto:Dan.Nelson@idwr.idaho.gov>]

**Sent:** Friday, January 12, 2018 9:05 AM

**To:** Alexis Clark <[AClark@spfwater.com](mailto:AClark@spfwater.com)>

**Subject:** Question on Field Report for Permit 63-33669

Hello Alexandra,

First of All I would like to thank you for a very well done field report on water right permit 63-33669 for the LDS Church.

In reviewing the field exam, I was a bit confused on how the canal water, waste water, and well water intermingle. From your narrative and the system diagram, it appears as though there is only one supply/waste pipeline. Allowing the water to travel up or down the pipeline as needed. However, I am not sure if water from the canal is gravity fed, or is pumped, or if the pond water is pumped or gravity fed. If there is only one pipeline, then how is overflow from the ponds dealt with? Can they fill the pond and the operate the irrigation system at the same time? Can they fill and overflow the pond at the same time? Is there an irrigation vault that water is pumped from that allows a bit of slack on the system? It appears to me that they would need at least 2 pipelines, one that supplies water up to the ponds, and one that delivered water from the ponds to the irrigation system. Typically we see the irrigation pump system at or near the ponds with all the water flowing through the ponds. However, there is approximately 800 feet between the pond and the irrigation pump house, so I am a bit confused on how the could gravity feed a single pipeline both ways. Even with the a pipeline that is dead level, I would assume you would be having inflow and out flow water fighting for space in the pipeline. Could you give me a bit more information on how this pipeline works?

Once the delivery system has been clarified, we can move forward with the review of the field exam, and possible licensing of the water right permit. The IDAPA Beneficial Use Rule 37.03.02.02.c states the following:

- c. If the Director determines that a field report prepared by a certified water right examiner is acceptable but that additional information is needed to clarify the field report, he will notify the examiner in writing of the information required. If the additional information is not submitted within thirty (30) days or within the time specified in the written notice, the priority date of the permit will be advanced one (1) day for each day the information submittal is late. Failure to submit the required information within one

(1) year of the date of the department's request is cause for the Director to take action to cancel the permit.

To avoid advancing the priority date of the permit, you will need to supply the needed information by September 28, 2015. If you have any questions, please don't hesitate to contact me.

Thank you again for a well done field report. It is truly appreciated.

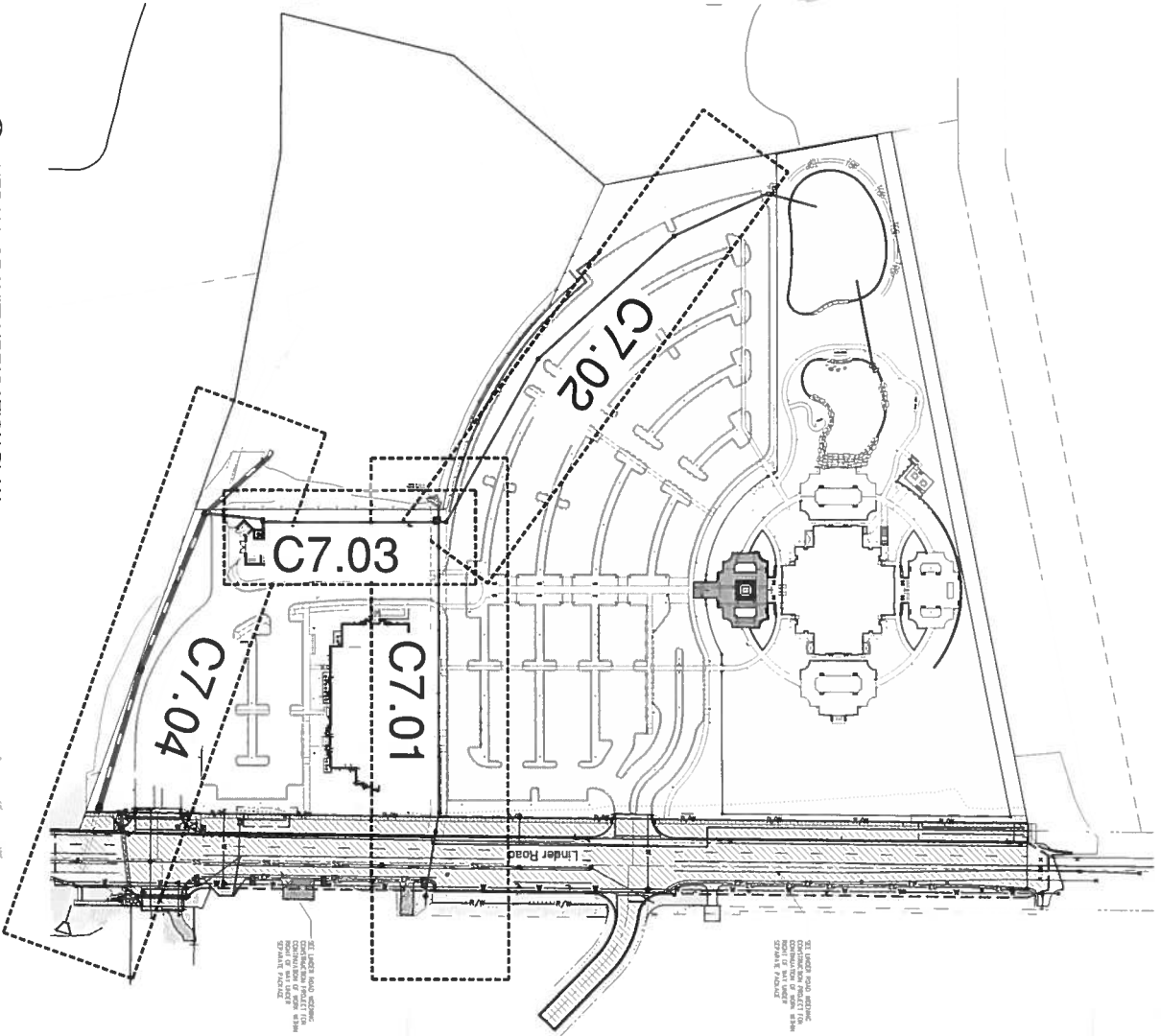
Respectfully,

Daniel Nelson  
Water Right Analyst 3  
Idaho Department of Water Resources  
Telephone (208) 287-4856  
Fax (208) 287-6700 (attn: Dan Nelson)

OVERALL GRAVITY IRRIGATION PLAN

NOTES: SEE SHEET C7.01 FOR

1" = 40'



- Sheet Notes**
1. CONSTRUCTION TO BE DONE BY THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL GOVERNMENTS. THE OWNER SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE.
  2. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL GOVERNMENTS. THE OWNER SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE.
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OVERALL GRAVITY IRRIGATION PLAN

C7.00

PROJECT # 11-1646  
DRAWN BY: BJD  
CHECKED BY: UK

MERIDIAN, IDAHO TEMPLE  
7385/7346 NORTH LINDER ROAD  
ADA COUNTY, IDAHO

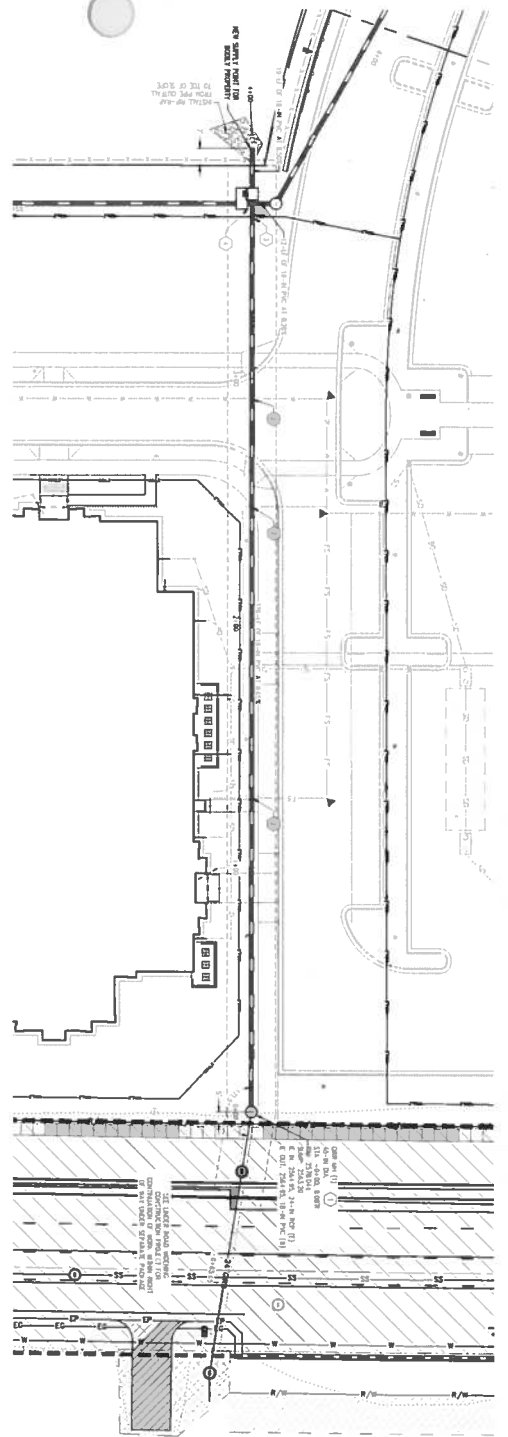
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

THE LATTER-DAY SAINTS  
CHURCH OF JESUS CHRIST  
OF LATTER-DAY SAINTS  
151 East Second Street, Salt Lake City, Utah 84143  
Phone: (801) 241-2000  
Fax: (801) 241-2001  
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DESIGN  
PARTNERSHIP  
LLC  
1100 West 1000 South  
Salt Lake City, Utah 84119  
Phone: (801) 466-1100  
Fax: (801) 466-1101  
WWW.REDAKCH.COM





- Sheet Notes:**
1. CONSTRUCTION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IRRIGATION ENGINEERING HANDBOOK, 1980 EDITION, PUBLISHED BY THE IRRIGATION ENGINEERING SOCIETY OF AMERICA.
  2. THE LOCATION OF ALL LATERALS, SUBLATERALS, VALVES, AND OTHER STRUCTURES SHALL BE SHOWN ON THIS PLAN. THE LOCATION OF ALL LATERALS, SUBLATERALS, VALVES, AND OTHER STRUCTURES SHALL BE SHOWN ON THIS PLAN. THE LOCATION OF ALL LATERALS, SUBLATERALS, VALVES, AND OTHER STRUCTURES SHALL BE SHOWN ON THIS PLAN.
  3. ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE.
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- Keyed Notes:**
1. MATERIAL OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IRRIGATION ENGINEERING HANDBOOK, 1980 EDITION, PUBLISHED BY THE IRRIGATION ENGINEERING SOCIETY OF AMERICA.
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**GRAVITY IRRIGATION SUPPLY - PLAN VIEW**



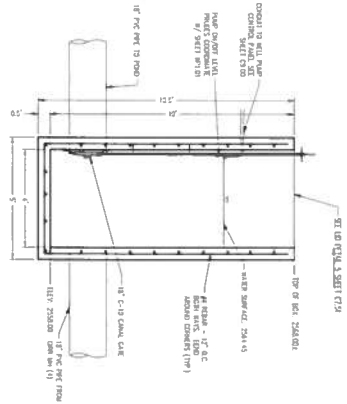
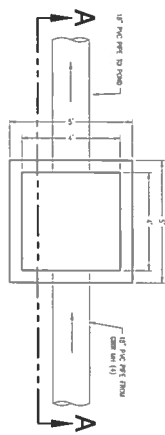
**GRAVITY IRRIGATION SUPPLY - PROFILE VIEW**



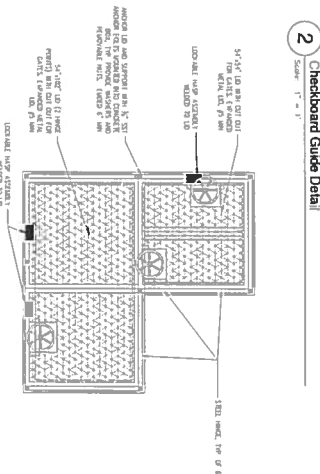


## SECTION A

## SECTION B

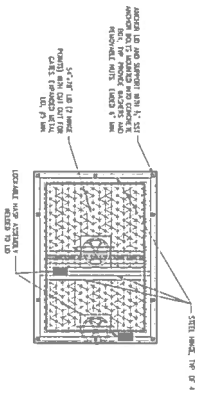


SECTION A

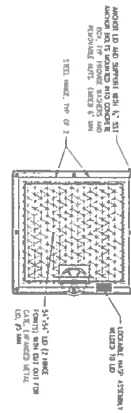


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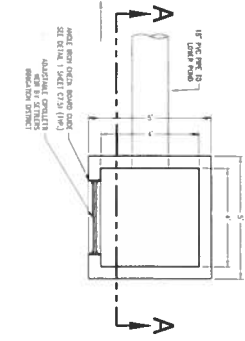
3 Irrigation Diversion Structure No. 1 Ltd Detail



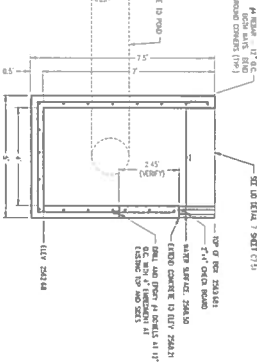
4 Irrigation Diversion Structure No. 2 Ltd Detail



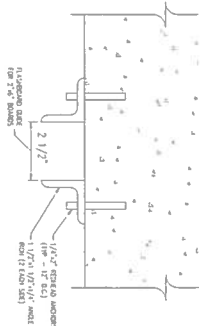
5 Irrigation Diversion Structure No. 3 Ltd Detail



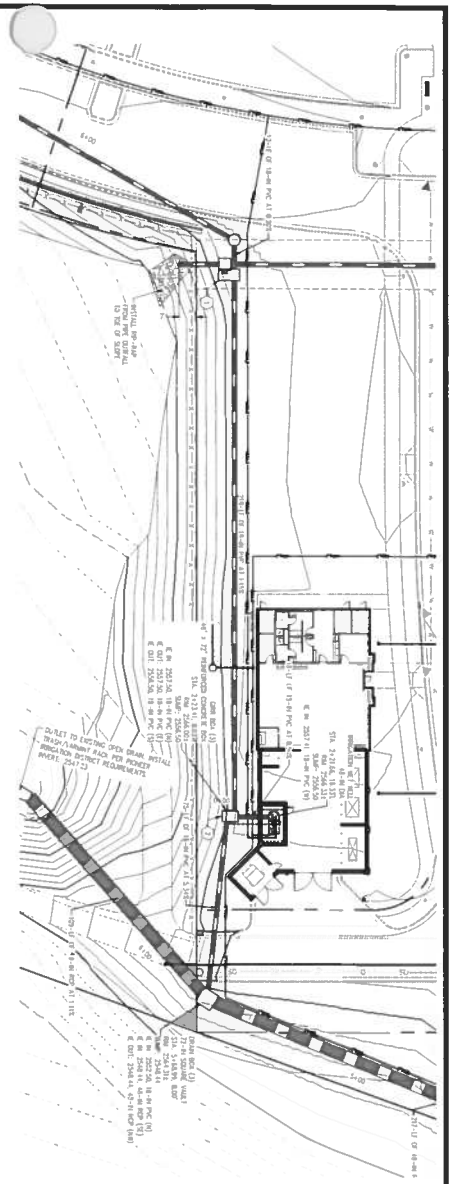
6 Pond Outlet Box Detail



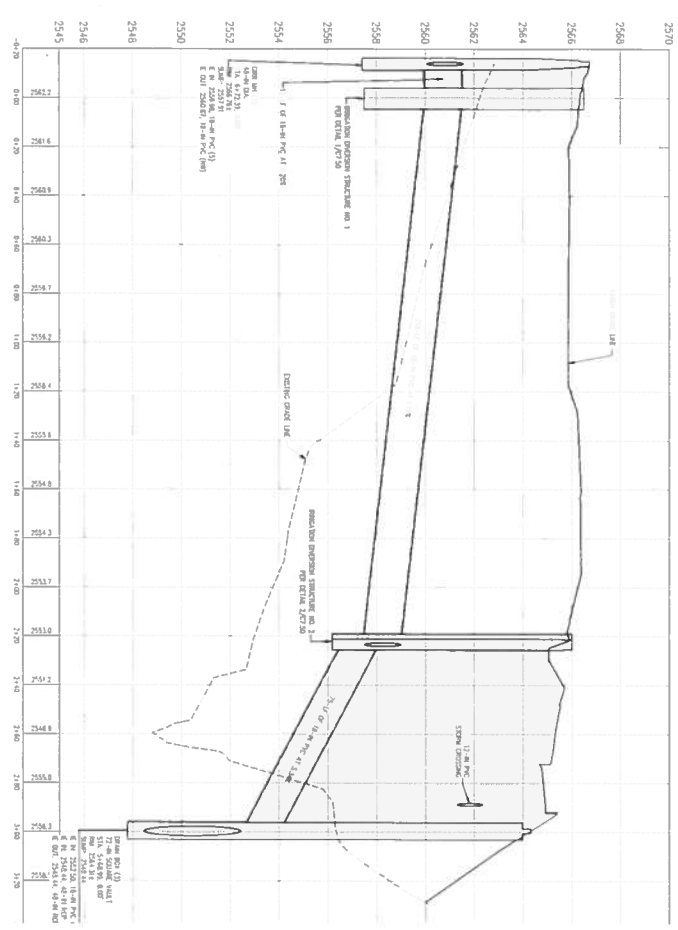
7 Pond Outlet Box Ltd Detail



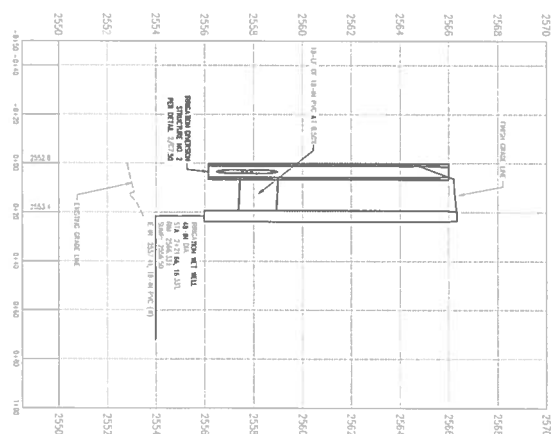
2 Checkboard Guide Detail



**GRAVITY IRRIGATION RETURN - PLAN VIEW**



**GRAVITY IRRIGATION RETURN - PROFILE VIEW**

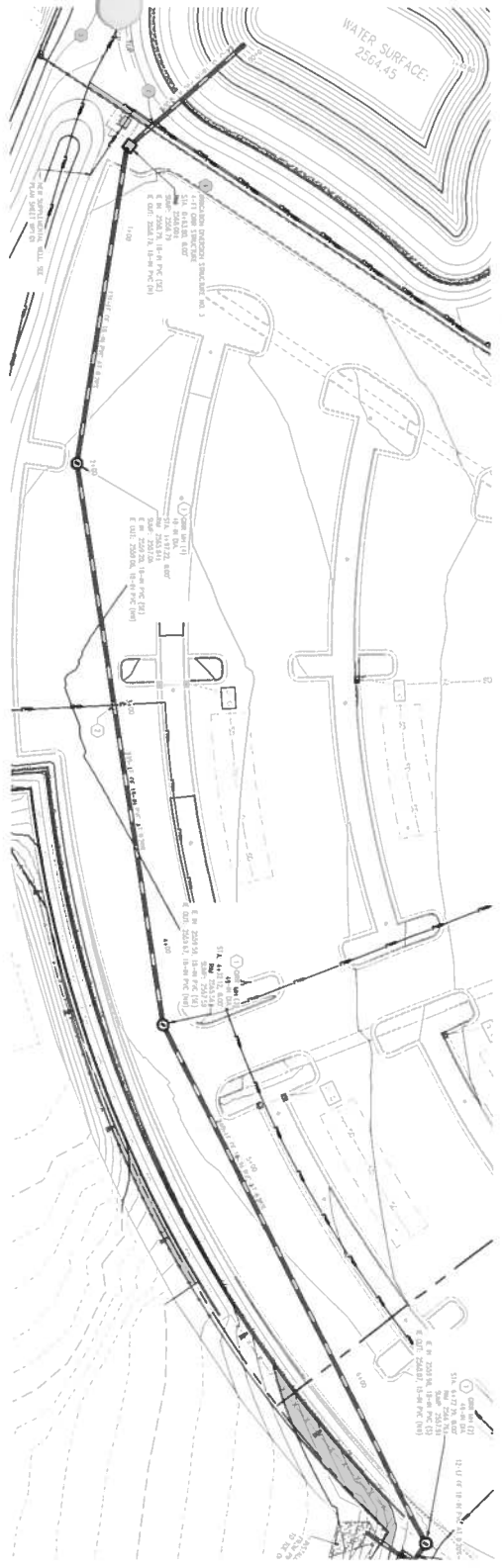


**GRAVITY IRRIGATION RETURN - WET WELL PROFILE**



- Sheet Notes:**
- CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS AND ADJUST TO MATCH EXISTING CONDITIONS.
  - THE LOCATION OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES ARE SHOWN BY EXISTING RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION.
  - ALL EXISTING UTILITIES SHALL BE DELETED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES.
  - ALL EXISTING STRUCTURES SHALL BE DEMOLISHED BY THE CONTRACTOR.
- Keyed Notes:**
1. GRAVITY IRRIGATION RETURN, STRUCTURE NO. 1, 1000 DETAILED, 1 SHEET.
  2. GRAVITY IRRIGATION RETURN, STRUCTURE NO. 2, 1000 DETAILED, 1 SHEET.
  3. WET WELL, STRUCTURE NO. 1, 1000 DETAILED, 1 SHEET.

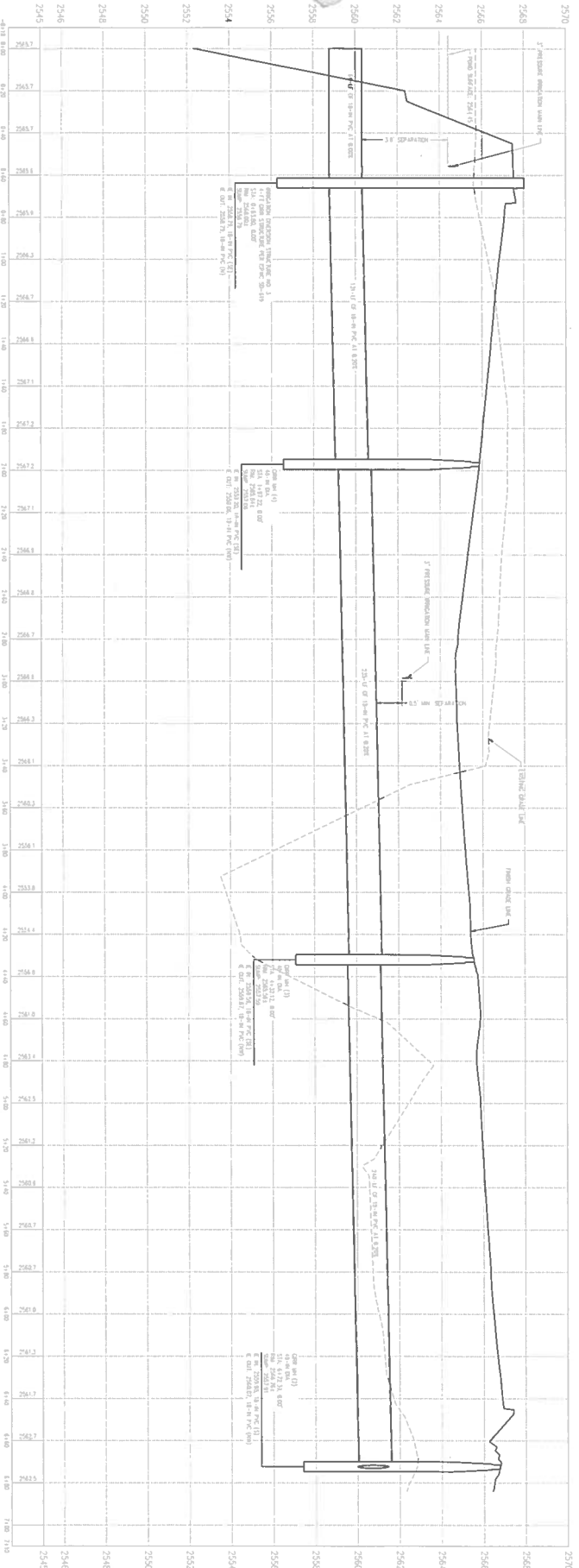




- ### Sheet Notes
- CONSTRUCTION IN THIS AREA WILL REQUIRE A PERMIT FROM THE IDAHO DEPARTMENT OF WATER RESOURCES, DIVISION OF WATER CONSTRUCTION, AND MUST BE SUBMITTED WITH APPLICATION ON THE LOCATION OF THE PROJECT.
  - PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE IDAHO DEPARTMENT OF WATER RESOURCES, DIVISION OF WATER CONSTRUCTION, AND MUST BE SUBMITTED WITH APPLICATION ON THE LOCATION OF THE PROJECT.
  - ALL REVISIONS SHALL BE PERMITTED BY THE IDAHO DEPARTMENT OF WATER RESOURCES, DIVISION OF WATER CONSTRUCTION, AND MUST BE SUBMITTED WITH APPLICATION ON THE LOCATION OF THE PROJECT.

- ### Keyed Notes
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## GRAVITY IRRIGATION SUPPLY - PLAN VIEW



## GRAVITY IRRIGATION SUPPLY - PROFILE VIEW



