

APN: 027-011-07, 08 and 09

When Recorded Mail To:

Orr Ditch Water and Extensions Company
c/o McDonald Carano
P.O. Box 2670
Reno, NV 89505

The undersigned hereby affirms that this document submitted for recording does not contain the personal information of any person or persons per N.R.S. 239B.030.

AGREEMENT

April, 2019

Article 1 PARTIES AND RECITALS

1.1 Parties

Washoe County
(“County”)

County of Washoe
A political subdivision of the State of Nevada
1001 East 9th Street
Reno, Nevada 89512
Attn: Dave Solaro, Assistant County Manager

Washoe County School
District (“School
District”)

Washoe County School District
A political subdivision of the State of Nevada
14101 Old Virginia Road
Reno, Nevada 895
Attn: Pete Etchart, Chief Operating Officer

Orr Ditch and Extensions
Water Company
(“Company”)

Orr Ditch and Extensions Water Company,
A Nevada a domestic corporation
P.O. Box 50404
Sparks, Nevada 89435
Attention: Ron Gribble, Director

Reno Sparks Convention
and Visitors’ Authority
(“RSCVA”)

Reno Sparks Convention and Visitors’ Authority, a
County Fair and Recreation Board created
pursuant to NRS Chapter 244A
4001 S. Virginia Street

Reno, NV 89502
Attention: Phil DeLone, President/CEO

1.2 Recitals

1.2.1 The County is the owner and operator of a certain parcel of real property located in Section 29, 30, 31 and 32, T20N, R20E, M.D.B.&M., more particularly described as Parcel No. 3 of that certain parcel map (Parcel Map No. 5369), recorded on September 12, 2018, File # 4850128 (the "County Parcel.")

1.2.2 The School District is the owner and operator of a certain parcel of real property located in Section 29, 30, 31 and 32, T20N, R20E, M.D.B.&M., more particularly described as Parcel No. 2 of that certain parcel map (Parcel Map No. 5369), recorded on September 12, 2018, File # 4850128 (the "School District Parcel.")

1.2.3 The Company is the owner of that certain waterway commonly known as the Orr Ditch (the "Orr Ditch") which in its current and historical alignment includes easements or rights-of-way traversing portions of the School District Parcel and the County Parcel. The typical period of use and operation of the Orr Ditch by Company for irrigation purposes is from April 1st through November 1st (the "Irrigation Season").

1.2.4 The County, the School District, and the RSCVA are parties to a Cooperative Agreement for the transfers of property rights relating to the County Parcel and the School District Parcel and which contemplates the construction of a school on the School Parcel. The school project requires the realignment of the Orr Ditch onto the County Parcel. The School District's construction of the school project will also include engineered improvements to the flow of storm water across the School District Parcel which shall have the effect of diverting storm flows away from the Orr Ditch.

1.2.5 The School District's contemplated realignment of a portion of the Orr Ditch involves constructing a new channel across the County Parcel roughly from west to east, constructing an inverted siphon and underground pipe and appurtenant facilities through such new channel, ("Siphon Facilities") and grading over the portion of the Orr Ditch that traverses the School District Parcel (collectively, the "Realignment Work"). The Realignment Work will reduce the overall length of Orr Ditch. A portion of the Realignment Work will direct the ditch flows through the Siphon Facilities which is intended to help prevent infiltration of surface water and reduce leakage from the ditch. For this Agreement the underground segment in the new channel, the historical above-ground portion of the Orr Ditch being perpetuated and the connections of those segments of the Orr Ditch which are or will be located on the County Parcel are referred to as the "County Parcel Ditch Segment."

1.2.6 The Company and the RSCVA are parties to a 1978 agreement (as amended) involving maintenance and liability of the portion of the Orr Ditch which traverses the County Parcel and the School District Parcel which agreement places certain duties and other obligations on RSCVA.

1.2.7 The proper functioning of irrigation ditches in the Northern Nevada climate require certain volumes and velocities of water flow which, in turn, require maintenance and repair of ditch facilities.

1.2.8 School District and County have requested Company abandon portions of the Orr Ditch right of way on the School District Parcel, and consent to the Realignment Work, the realignment of portions of the Orr Ditch on the County Parcel, and the diversion of the Orr Ditch through the Siphon Facilities.

1.2.9 The Parties desire by this Agreement to memorialize their agreements with respect to the Realignment Work and certain rights and duties related to the realignment of the Orr Ditch, abandonment of portions of the Orr Ditch right of way, and ongoing maintenance and liability with respect to the Orr Ditch where it traverses the School District Parcel and the County Parcel.

NOW, THEREFORE, THAT PARTIES AGREE IT IS HEREBY AGREE:

Article 2 RIGHTS AND DUTIES

2.1 The Company.

1. The Company grants to the School District and the County the right to perform the Realignment Work in accordance with this Agreement and relocate a portion of the Orr Ditch in the alignment shown on Exhibit A. The design of the Realignment Work is subject to review and approval of the Company which approval shall not be unreasonably withheld if the redesigned and reconstructed Orr Ditch meets or exceeds Company's historic flow capacity requirements and minimizes interference with and access to the Orr Ditch, and imposes no new maintenance obligations on Company.

2. The Company will cooperate with the School District and take all reasonably required actions to abandon, transfer, or otherwise extinguish the Company's property rights to the portion of the Orr Ditch on the School District Parcel within thirty (30) days of the later of i) final completion of the Siphon Facilities, including connection into the Orr Ditch; and ii) County's conveyance of the New Easement to Company.

3. Company shall have no duties, liability or responsibility with respect to the operation, maintenance, repair or replacement of the Siphon Facilities; provided, however, Company shall have the perpetual right and easement to convey water through the Siphon Facilities in accordance with the New Easement.

4. Company hereby grants County a license to enter over, upon and across any property owned, operated or controlled by Company within the Orr Ditch in connection with the cleaning, repair or maintenance of the Orr Ditch on the County Parcel as contemplated by this Agreement, provided County's entrance and repair or maintenance of the Orr Ditch does not impair, impede or in any manner disrupt any use of the Orr Ditch by Company, including without limitation, the delivery of irrigation water through the Orr Ditch.

5. The Company agrees that the March 23, 1973 agreement between the RSCVA and the Orr Ditch Company, including the June 12, 1978 addendum, is terminated effective upon the effective date of this Agreement, and the RSCVA is hereby released of any and all liability, claims or obligations arising from, or related to, the Orr Ditch accruing after the effective date of this Agreement.

6. The Company agrees that except as otherwise expressly provided in this Agreement, nothing changes any duty or right the Company has for the Orr Ditch.

2.2 The County.

1. County shall be solely responsible for performing and for payment of all costs incurred in connection with performing: i) all maintenance, cleaning, repairs, and replacement of the Siphon Facilities, cleaning all debris from any intake facilities, and keeping the Siphon Facilities in good condition and operating at their intended flow capacity such that they do not impair or impede the conveyance of water through the Orr Ditch; and ii) maintenance and cleaning of the Orr Ditch on the County Parcel, including:

A. Cleaning all debris which may collect from the mud banks, sides and bottom which may impede water flow of the Orr Ditch.

B. Trimming and removing vegetation above and below the water line of the Orr Ditch so as not to impede water flow of the Orr Ditch which may include the removal of roots or portions thereof.

C. Repairing cave-ins along banks of the Orr Ditch and removing such cave-ins where repair appears impossible to perform.

D. Removing all large rocks which may fall into the Orr Ditch and which may impede the water flow in the Orr Ditch.

E. Taking reasonable steps to prevent any washouts at bridge cross sites which may occur during times when there is high water flow in the Orr Ditch.

F. Managing the water flow from the Sun Valley area of Washoe County, Nevada during periods when there may be excessive water runoffs from that area, particularly to maintain and manage such runoffs by eliminating obstructions to keep such water above and below ground open and flowing.

The County accepts responsibility for the duties described in this paragraph 1 of Section 2.2, above and shall perform all such work with its employees, contractors or other agents in a workmanlike manner to the reasonable satisfaction of the maintenance supervisors of the Company. Except in the event of an emergency or routine cleaning of the Orr Ditch or Siphon Facilities, County shall not perform any other repairs or replacement work on the Siphon Facilities or Orr Ditch during the Irrigation Season without Orr Ditch prior written consent.

2. The County agrees to provide to the School District access to the portions of the County Parcel necessary for the School District to survey, design, construct and inspect the realignment of the Orr Ditch on the County Parcel.

3. The County shall grant Company a perpetual non-exclusive easement across, under, and through portions of the County Parcel i) to use, operate and convey water through the Siphon Facilities, provided Company's right to convey water through the Siphon Facilities shall at all times be superior to and senior in right to any other flows through the Siphon Facilities it being the express intention that Company at all times have sufficient capacity within the Siphon Facilities for conveyance of irrigation water; and ii) granting the right, but not the obligation, to access, maintain and repair the Siphon Facilities in the event of an emergency or in the event County fails to timely do so; and iii) as otherwise necessary for the realignment of the Orr Ditch contemplated by this Agreement (the "New Easement"). The New Easement shall be forty (40) feet in width along the centerline of the Siphon Facilities and any portion of the realigned ditch. The scope of the New Easement set forth above is for an irrigation ditch and shall include all other rights necessary thereto including the right of the Company to access the ditch. The form and substance of the New Easement shall be mutually agreed upon by County and Company and prior to commencement of the Relocation Work County shall deliver to the Company a deed for the New Easement fully executed in recordable form.

4. County shall be the sole and exclusive owner of the Siphon Facilities, subject to the New Easement and rights granted Company under this Agreement.

5. County shall not and shall not authorize any other person to discharge or convey storm water into, or dump any hazardous materials into, the Orr Ditch on the County Parcel.

6. The County agrees to indemnify, defend and hold harmless the Company from and against any and all losses, claims, liabilities, damages to persons or property, costs and expenses, including reasonable attorneys' fees, made against or incurred by County or Company resulting or arising from:

- (i) any willful or negligent act or omission of County related to or affecting the use, operation, repair or maintenance of the Siphon Facilities;
- (ii) water escaping from or overflowing the Siphon Facilities;
- (iii) any point source pollution attributable to or arising from County's work on the Siphon Facilities;
- (iv) asserted by any person as a result of an incident on or within the Siphon Facilities which is the result of the acts or omissions of County, its officers, employees, or agents or any use by any person of the Siphon Facilities;
- (v) any failure of the Siphon Facilities, or unplanned impairment or interruption in the delivery of water caused by County, excluding therefrom claims arising from physical damage to the Siphon Facilities directly caused solely by the negligent or willful misconduct of Company; and
- (vi) death or injury or damage to property in or around the County Parcel Ditch Segment.

As to the Company only, County expressly waives, and acknowledges and agrees it shall not assert against the Company any liability limitation otherwise available to the County under NRS Chapter 41 or other similar sovereign immunity provisions of Nevada law, including without limitation NRS 41.032 and NRS 41.033. County acknowledges and agrees the foregoing indemnification is a material inducement to Company to enter this Agreement. The foregoing shall not benefit any third party, and County expressly reserves all rights to assert NRS chapter 41 or other similar

sovereign immunity provisions of Nevada law against all persons other than the Company. The foregoing shall be construed at all times for the benefit of Company, and unless Company agrees otherwise shall not be severable from this Agreement for any reason, including any determination that any portion of the foregoing release and indemnity is unenforceable or invalid.

7. County shall provide at its expense and keep in force so long as this Agreement remains in force and/or the Siphon Facilities remain in operation, a commercial general liability policy protecting Company against liability occasioned by the Siphon Facilities or negligent acts or omissions by County, its officers, employees, agents or its invitees, including County's obligations to indemnify, defend and hold Company harmless in Section 6. The amount of such liability insurance shall be not less than One Million Dollars (\$1,000,000) combined single limit per occurrence for bodily injury and property damage under commercial general liability and \$1,000,000 combined single limit for bodily injury and damage under commercial automobile liability. County's commercial general liability shall be primary coverage for Company as the additional insured and any insurance, or self-insurance maintained by Company shall be excess of and noncontributory with any insurance, or self insurance carried or offered by County on behalf of Company. Insurance coverage, or any self-insurance or other coverage maintained by the County, or its subcontractors shall apply on a first dollar basis. A waiver of subrogation shall be provided in favor of Company from any and all claims of damages alleged by County, or its insurance company against Company, as an additional insured. Copies of the insurance coverage, any self-insurance or other program referenced in this paragraph shall be provided to Company by Certificate of Coverage, including copies of program endorsements clearly indicating that required in this paragraph. To the extent County is self-insured, County may satisfy County's insurance obligations through such self-insurance, and County agrees that all the foregoing insurance requirements apply to and will be covered by County's self-insurance programs and that County has sufficient assets to cover any insured losses if they occur.

2.3 The School District.

1. The School District shall be solely responsible for all design, plans and construction of the Realignment Work consistent with the alignment shown in Exhibit _A; provided, however, the Realignment Work shall be designed and constructed in full conformance with Company's specifications and requirements and shall be designed and constructed to meet Company's historic or present flow capacity requirements and to minimize interference with and access to, and the regular cleaning and maintenance of, the Orr Ditch. All designs and plans shall be submitted to Company for review and approval. All work performed by School District on or about the Orr Ditch, including without limitation construction of the Realignment Work, must be reviewed and approved in writing in advance by Company. School District shall be solely responsible for prosecuting the Realignment Work, and agrees to coordinate such construction with Company in advance so as to minimize adverse impacts on Company's irrigation operations. County shall notify Company no later than 48 hours prior to commencing any construction or other work on the Orr Ditch. The School District shall perform the Realignment Work in a workmanlike manner according to a construction-ready design approved by the Company and the County.

2. No construction may commence on any portion of the Orr Ditch on the School District Parcel until the Siphon Facilities are constructed, fully operational for conveyance of water from the Orr Ditch, and have been inspected and approved by the Company, it being expressly agreed that at all times during the Irrigation Season Company must have the ability to convey water through the Orr Ditch. School District shall perform the Realignment Work diligently, expeditiously, and with adequate resources so as to complete all the work in a manner that does not delay, impair, or adversely affect Company's delivery of irrigation water. If School District fails to complete any portion of the Realignment Work and such failure interferes, impedes or prevents Company from fully utilizing the Orr Ditch for irrigation purposes during the Irrigation Season, School District shall pay Company, as liquidated damages, and not as a penalty, the sum of \$1,000 per day for the first seven (7) days, \$5,000 per day for the next ten (10) days, and \$10,000.00 per day thereafter until the earlier of the completion of the work or the restoration of the Orr Ditch to full operational capacity, which sum, in view of the difficulty of estimating such damages with exactness, is hereby expressed, fixed, computed, determined, and agreed upon as the damages that will be suffered by the Company by reason of such default. It is understood and agreed by the parties that the liquidated damages herein mentioned are in lieu of the actual damages arising from such delay breach.

3. School District shall be independently and solely responsible for, and indemnify Company from all claims arising from or related to, all costs and expenses, including without limitation labor, material, maintenance, operation, reconstruction and construction related costs and expenses, arising from the Realignment Work, including without limitation any claims, disputes, lawsuits, changes in work, unforeseen conditions or other claims arising from or in connection with such work, and any adverse impacts on the structure or integrity of the Orr Ditch. School District shall also pay Company's encroachment application fees to review plans and specifications for the Realignment Work.

4. The School District will cooperate with the Company and take all reasonably required actions to abandon, transfer, or otherwise extinguish the Company's property rights to the Orr Ditch on the School District Parcel.

5. The School District acknowledges that the County is or may be operating a golf course on the County Parcel and the Realignment Work will temporarily interfere with that use of the property. The School District agrees to coordinate with the County the commencement of the construction of the realigned ditch which, based on currently available information, is expected to start in January of 2020.

6. The School District will cooperate with the County and take all reasonably required actions to transfer the Siphon Facilities to County upon completion.

7. No storm water drainage or dumping of any hazardous materials shall be permitted into the Orr Ditch from the School District Parcel and the development of the School District Parcel shall be designed, constructed and maintained to ensure that no storm water drainage from School District Parcel is discharged into the Orr Ditch.

8. To the fullest extent provided by law, the School District shall indemnify, hold harmless and defend the County and Company from and against all liability arising out of all actions taken by or omissions in the performance the School District's duties under this Agreement to design and construct the Realignment Work.

2.4 The RSCVA.

1. The RSCVA agrees that the March 23, 1973 agreement between the RSCVA and the Orr Ditch Company, including the June 12, 1978 addendum, is terminated effective upon the effective date of this agreement.

2. The RSCVA agrees to cooperate with the Parties to this Agreement by taking all reasonably required actions to abandon, transfer, or otherwise extinguish the Company's property rights to the Orr Ditch on the School District Parcel.

Article 3 GENERAL TERMS

3.1 Assignment. No party may assign any right or delegate any obligation under this Agreement without the written consent of all the other parties obtained in advance of the assignment or delegation. Consent is subject to the sole and absolute discretion of the consenting party but shall not be unreasonably withheld.

3.2 Binding effect; no third party beneficiary. This Agreement shall be binding on and runs to the benefit of the Parties, their respective successors and any assignees or delegates if the assignment or delegation is permitted. Unless otherwise specifically identified in this Agreement, there are no third party beneficiaries intended by this Agreement including individual members of the public and public groups and no third parties have any standing to enforce any of the provisions of this Agreement.

3.3 Standards for approvals. Unless otherwise specified (such as with the words "sole discretion") wherever this Agreement requires the approval of a party, or any of a party's officers, agents or employees, such approval shall not be unreasonably withheld.

3.4 Notices.

A. Unless otherwise provided herein, formal notices, demands and communications between the Parties must be in writing and must be sent to the addresses or facsimile numbers stated in Article 1 or to any address or number subsequently communicated to the sending party in writing.

B. If notice is sent by regular mail to the correct address, it will be deemed sufficiently given only when actually received by the correct addressee.

C. If notice is sent by registered or certified mail to the correct address, postage prepaid, it will be deemed sufficiently given when actually received by the addressee or three

business days after it is received by the U.S. Post Office as indicated on the receipt, whichever is earlier.

D. If notice is sent by courier, or overnight delivery service (Federal Express, UPS Overnight, U.S. Postal Priority Mail), it will be deemed sufficiently given when delivered to the address as indicated in the records of the courier or service.

3.5 Further documents. Each party agrees to honor any reasonable requests by the other party to complete, execute and deliver any document necessary to accomplish the purposes hereof at the expense of the requesting party.

3.6 Timing provisions. Time is of the essence in the performance of this Agreement. Unless otherwise specified, the term “days” means calendar days. If a deadline falls on a weekend, holiday or day when the recipient of performance is not open for business, then performance is due on the first business day of the recipient thereafter. Unless otherwise specified, performance is due by the later of 5 p.m. local time or close of business of the recipient on the day it is due.

3.7 Applicable law; jurisdiction and venue. The laws of the State of Nevada, without regard to conflicts of law principles, shall govern the interpretation and enforcement of this Agreement. All actions brought to enforce this Agreement shall be brought in the Second Judicial District Court for the State of Nevada in and for Washoe County.

3.8 Severability.

A. Each term and provision of this Agreement shall be valid and shall be enforced to the extent permitted by law, taking into account permissible waivers or provisions which may be upon agreement of the Parties. If any term or provision of this Agreement or the application thereof shall be deemed by a court of competent jurisdiction to be in violation of law or public policy, then it shall be deemed modified, ipso facto, to bring it within the limits of validity or enforceability, but if it cannot be so modified, then it shall be excised from this Agreement and the remainder of this Agreement, or the application of such term or provision to circumstances other than those to which it is invalid or unenforceable, shall not be affected.

B. To prevent windfall or unintended consideration, if any term or provision of this Agreement is deemed invalid or unenforceable or enforceable only to a limited extent, the Parties agree to negotiate in good faith to adjust any counter-performance, condition, or corresponding consideration.

3.9 Construction of Agreement.

A. Titles and headlines of this Agreement are intended for editorial convenience and are not to be construed as a part of this Agreement.

B. The word “include” or “including” is not intended as a limitation and shall be construed to include the words “but not limited to.”

C. Any reference to the masculine genders includes, where appropriate in the context, the feminine gender. Any term in the singular includes, where appropriate in the context, the plural.

D. The Parties hereto were each advised by counsel in drafting and negotiating this Agreement, and both Parties contributed to its contents. No presumptions against or in favor of either party are appropriate based on who drafted this Agreement or any provision herein.

3.10 Modifications and Amendments. This Agreement may be modified or amended only by a writing signed by an authorized agent of the party to be bound by the modification or amendment.

3.11 Authority to Execute and Ratification. Each person who signs this Agreement below warrants and represents that he or she has the legal capacity to enter into this Agreement and if signing in a representative capacity, has the actual authority to bind the principal for which he or she signs and that his or her signature has the effect of binding the principal. Any action taken by the officers or agents of any of the Parties prior to the effective date of this Agreement and which is authorized by this Agreement is hereby ratified by the Party for whom that person acted.

3.12 Entire Agreement; Attachments; counterparts.

A. This Agreement (together with the recitals, attachments and documents incorporated by reference) integrates all of the terms and conditions mentioned herein or incidental hereto, and supersedes all negotiations or previous agreements between the Parties with respect to all or any part of the subject matter hereof.

B. All attachments hereto and/or referred to in this Agreement are incorporated herein as though set forth in full.

C. This Agreement may be executed in counterparts and is deemed duly executed when original signature pages of all Parties are delivered to and assembled by the County.

3.13 Waiver. No failure or delay on the part of any Party to this Agreement to enforce the provisions hereof shall operate as a waiver thereof, nor shall a single or partial enforcement of any provision hereof preclude any other or further enforcement or exercise of any other right, power or remedy that any party of this Agreement may have.

3.14 Effective Date and Term. This Agreement shall become effective once it has been executed by each of the Parties on the date last written below.

3.15 Run With Land. The terms contained herein shall be appurtenant to and run with the land of the School District Parcel and County Parcel into perpetuity and shall be binding upon and shall inure to the benefit of the Parties and the permitted successors, agents and assigns.

EXECUTED on the dates indicated:

WASHOE COUNTY

By _____ Date _____
Chairman, Board of County Commissioners

Attest:

By _____ Date _____

Approved as to form and content:

By _____ Date _____
Deputy District Attorney

RENO SPARKS CONVENTION AND VISITORS' AUTHORITY

By _____ Date _____
President/CEO

Attest:

By _____ Date _____

Approved as to form and content:

By _____ Date _____
Attorney

WASHOE COUNTY SCHOOL DISTRICT

By _____ Date _____
Board Chair

Attest:

By _____ Date _____

Approved as to form and content:

By _____ Date _____
Attorney

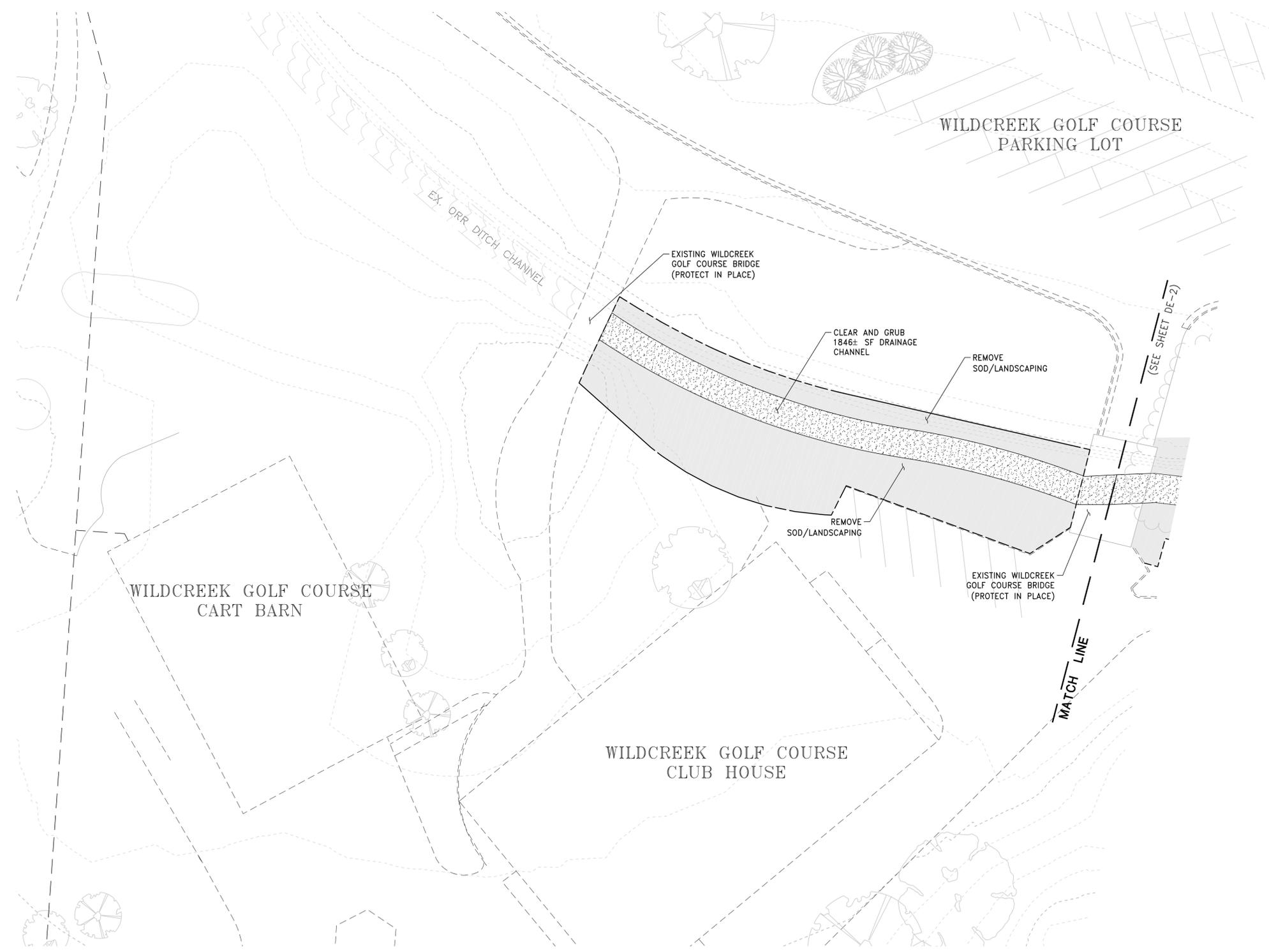
ORR DITCH AND EXTENSIONS WATER COMPANY

By _____ Date _____
Director

Attest:

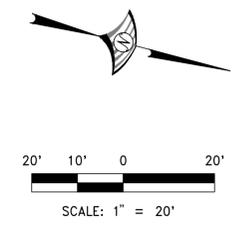
By _____ Date _____

Exhibit "A"
Orr Ditch Realignment
(Attached)



LEGEND:

- FULL DEPTH SAWCUT
- EXISTING ASPHALT TO BE REMOVED
- REMOVE SOD/LANDSCAPING
- CLEAR AND GRUB EXISTING DRAINAGE CHANNEL



PRELIMINARY - FOR REVIEW ONLY

NO.	DESCRIPTION	DATE

DATE: APRIL 2019
 SCALE: 1" = 20'
 DRAWN BY: DAD
 DESIGNED BY: DAD
 CHECKED BY: MAC



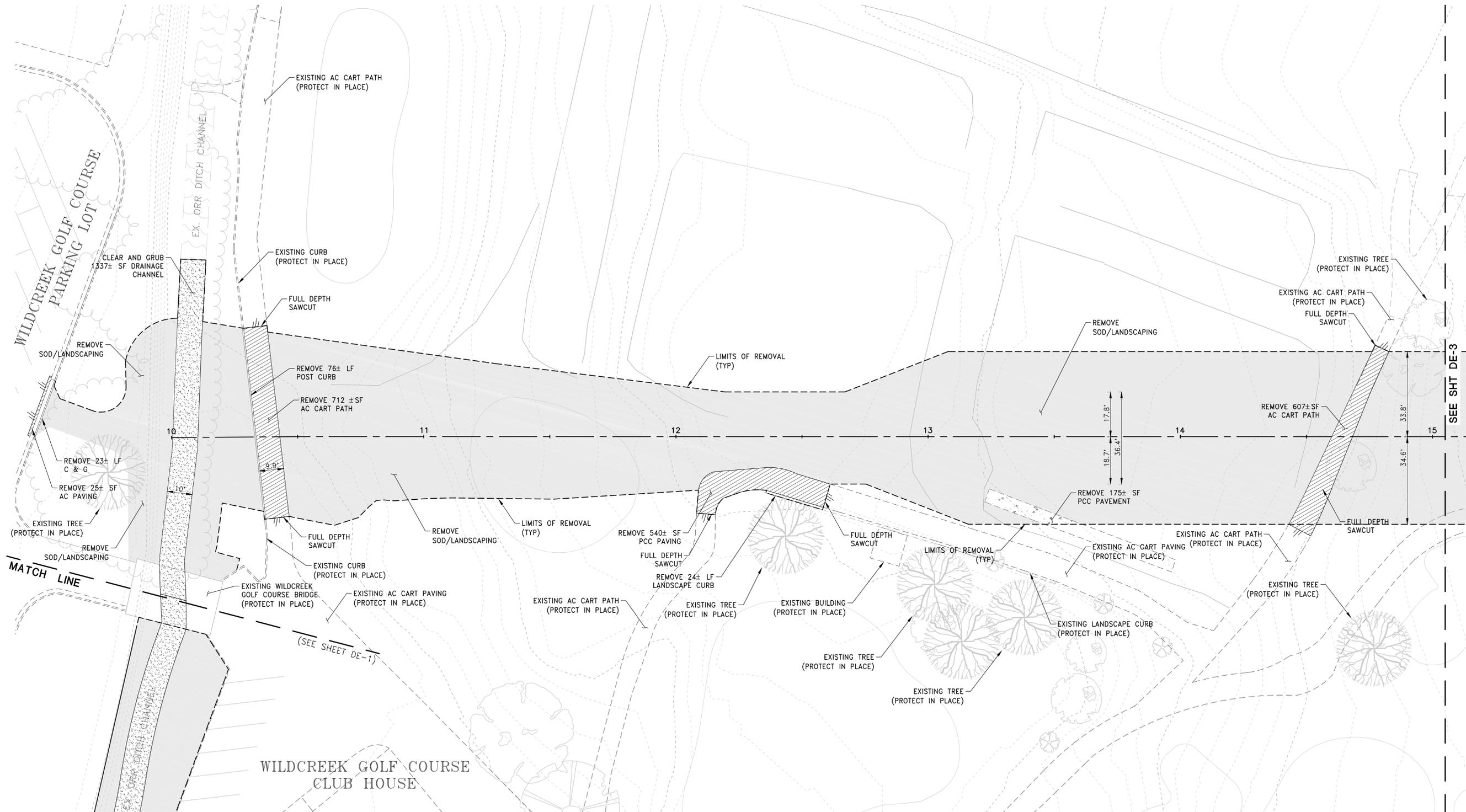
WOOD RODGERS
 BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
 1361 Corporate Blvd
 Reno, NV 89502
 Tel: 775.825.4068
 Fax: 775.823.4066



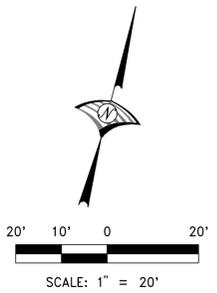
IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
DEMOLITION PLAN

PROJECT NO.
8052.001
 DRAWING
DE-1

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- LEGEND:**
- FULL DEPTH SAWCUT
 - EXISTING ASPHALT TO BE REMOVED
 - REMOVE SOD/LANDSCAPING
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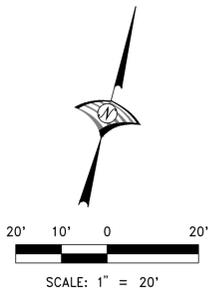
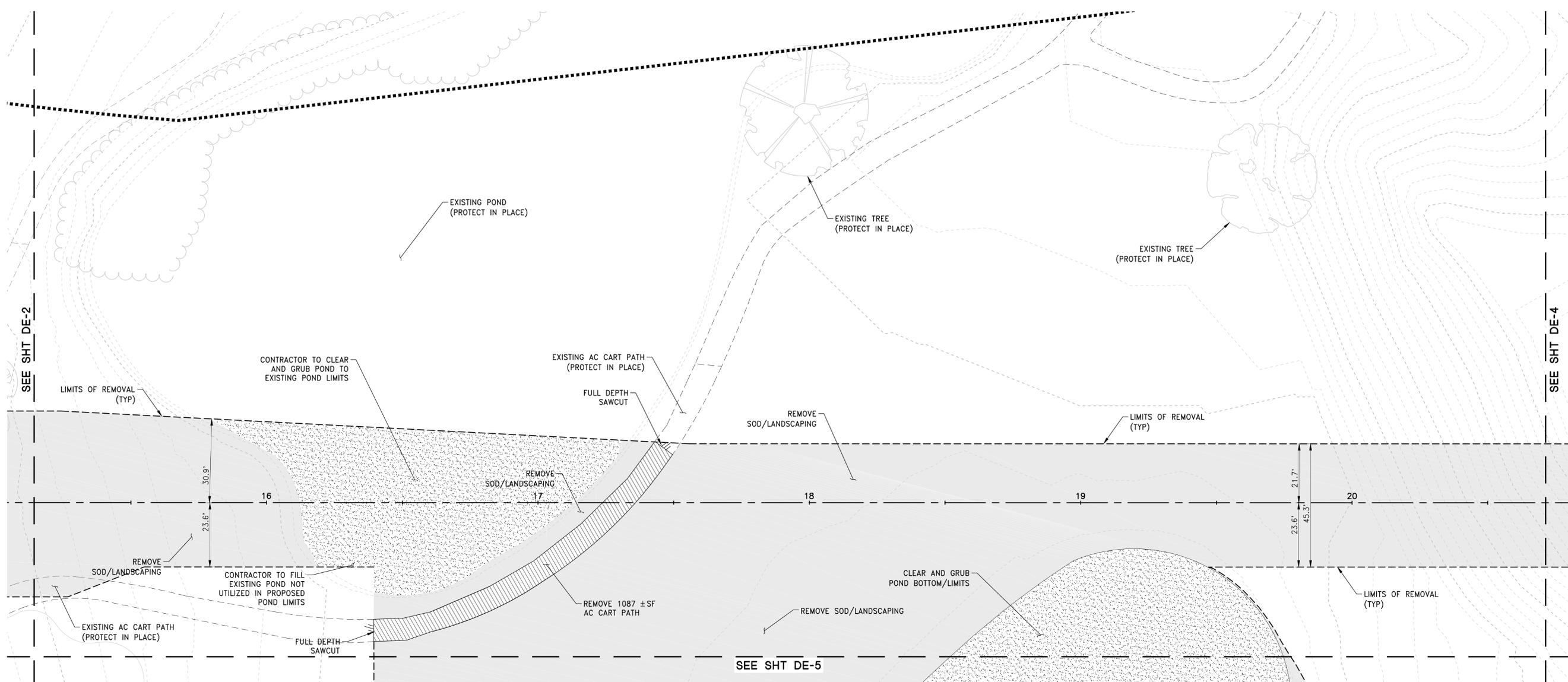
Washoe County School District
 Every Child, By Name And Face, To Graduation™
 PROJECT NO. 8052.001

**ORR DITCH REALIGNMENT
 INVERTED SIPHON
 DEMOLITION PLAN**

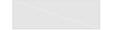
IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON
 DEMOLITION PLAN**

PROJECT NO. 8052.001
 DRAWING DE-2

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LEGEND:

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PRELIMINARY - FOR REVIEW ONLY

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NO.	
DESCRIPTION	
DATE	



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IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
DEMOLITION PLAN

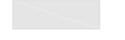
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8052.001
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DE-3

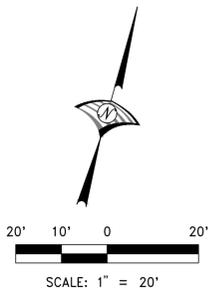
J:\Users\8052\Washoe County School District\Widcreek High School\ - Widcreek HS Orr Ditch Realignment\Civil\Draw\06_DEMO03_WCHS_BPI.dwg 4/18/2019 1:56 PM Doug Pal Peris



SEE SHT DE-3

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-  REMOVE SOD/LANDSCAPING
-  CLEAR AND GRUB EXISTING DRAINAGE CHANNEL



PRELIMINARY - FOR REVIEW ONLY

DATE:	APRIL 2019
SCALE:	1" = 20'
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Reno, NV 89502
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Fax: 775.823.4066



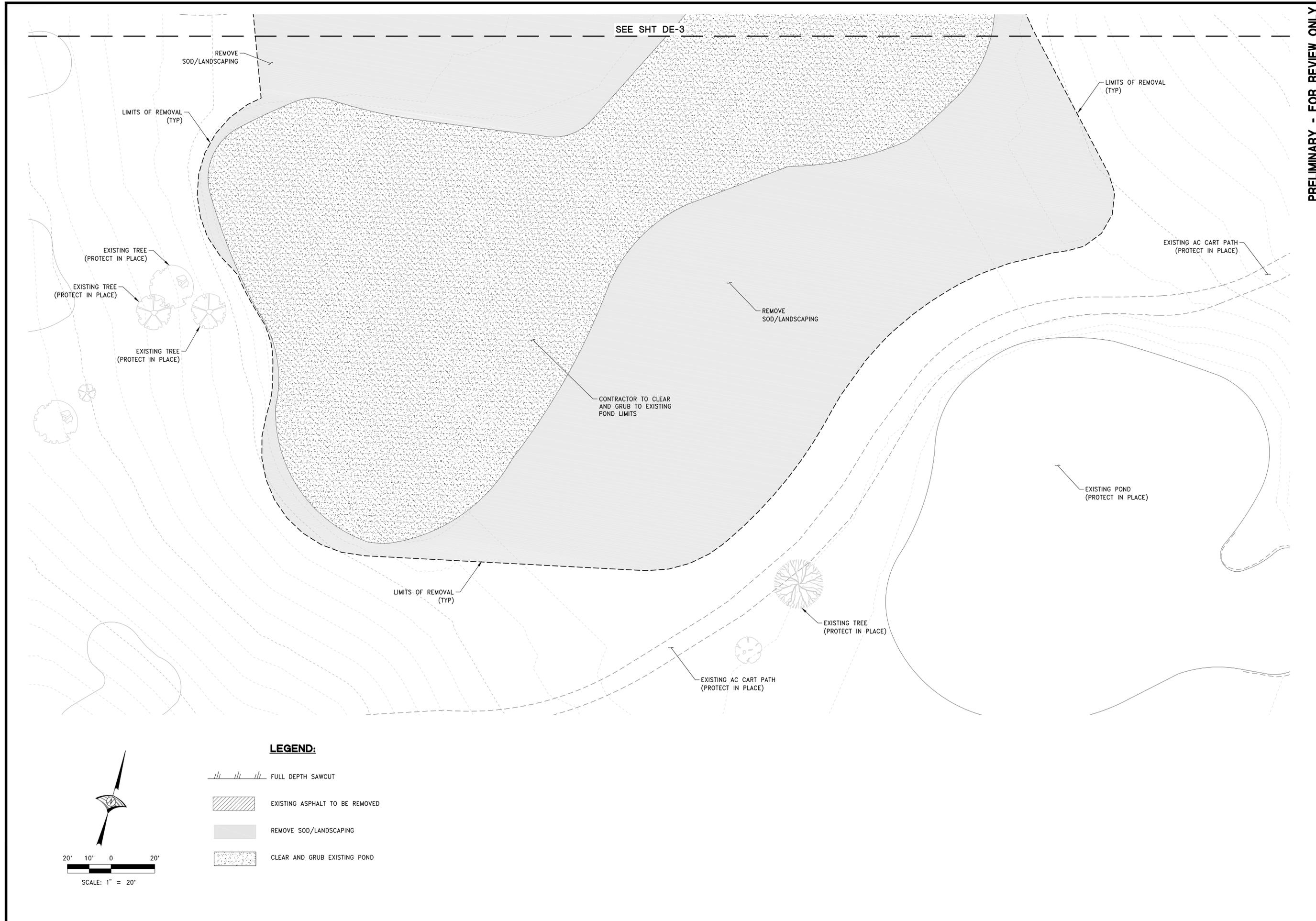
Washoe County School District
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IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
INVERTED SIPHON**
DEMOLITION PLAN

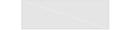
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8052.001

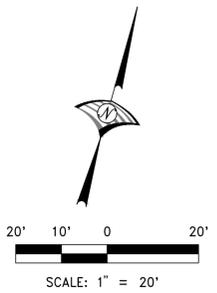
DRAWING
DE-4

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LEGEND:

-  FULL DEPTH SAWCUT
-  EXISTING ASPHALT TO BE REMOVED
-  REMOVE SOD/LANDSCAPING
-  CLEAR AND GRUB EXISTING POND

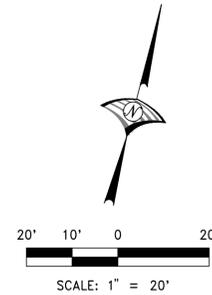


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PROJECT NO.	8052.001
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ORR DITCH OPERATING FLOWS

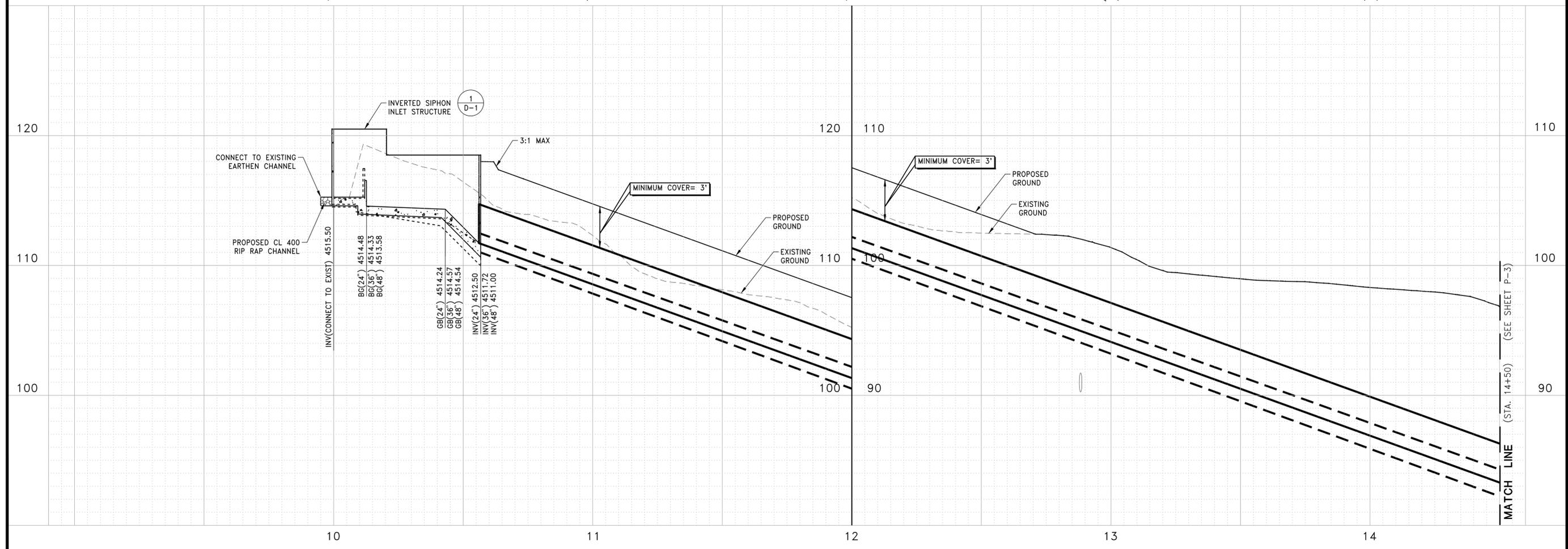
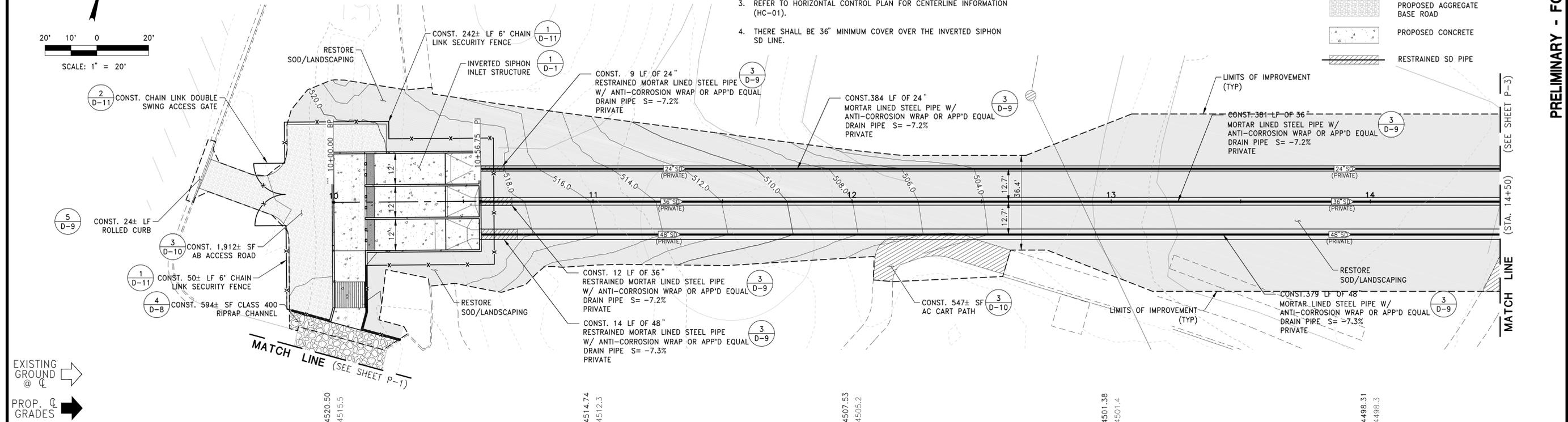
- | | |
|--------------------------------------|--------------|
| 1. AVERAGE FLOW CONDITION: | Q = 15.0 CFS |
| 2. FLUSHING FLOW CONDITION: | Q = 40.0 CFS |
| 3. MAXIMUM OPERATING FLOW CONDITION: | Q = 51.0 CFS |
| 4. SYSTEM CAPACITY FLOW: | Q = 160 CFS |

CONSTRUCTION NOTES:

- ALL SEWER AND STORM DRAIN IMPROVEMENTS ARE PUBLIC UNLESS NOTED OTHERWISE.
- EXISTING UTILITY TIE-IN INFORMATION HAS BEEN OBTAINED FROM BOTH RECORD DRAWINGS AND FIELD SURVEY WHERE EXISTING IMPROVEMENTS COULD BE LOCATED. CONTRACTOR TO VERIFY ACCURACY OF INFORMATION PRIOR TO CONSTRUCTION AND TO NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND BEFORE COMMENCING WORK.
- REFER TO HORIZONTAL CONTROL PLAN FOR CENTERLINE INFORMATION (HC-01).
- THERE SHALL BE 36" MINIMUM COVER OVER THE INVERTED SIPHON SD LINE.
- REFERENCE DM SHEETS FOR GENERAL PROTECT IN PLACE NOTES.
- ALL DIMENSIONS AND DISTANCES ARE TO BACK OF CURB, CURB RETURN, FACE OF WALL, FLOW LINE, PROPERTY LINE, CENTER OF STRIPING, CENTER LINE OF PIPE, OR END OF IMPROVEMENTS.
- ALL SLOPES ARE 3:1 OR LESS UNLESS NOTED OTHERWISE.
- ADD 4400 FEET TO ALL ELEVATIONS.

LEGEND:

- PROPOSED ASPHALT CART PATH
- RESTORE SOD/LANDSCAPING
- PROPOSED RIPRAP
- PROPOSED AGGREGATE BASE ROAD
- PROPOSED CONCRETE
- RESTRAINED SD PIPE



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NO.	DESCRIPTION	DATE

DATE: APRIL 2019
 SCALE: H:1"=20' V:1"=5'
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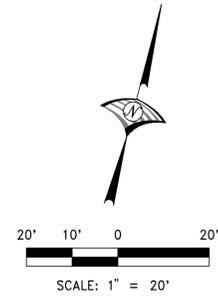
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IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
 PLAN AND PROFILE

PROJECT NO.
8052.001
 DRAWING
P-2

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ORR DITCH OPERATING FLOWS

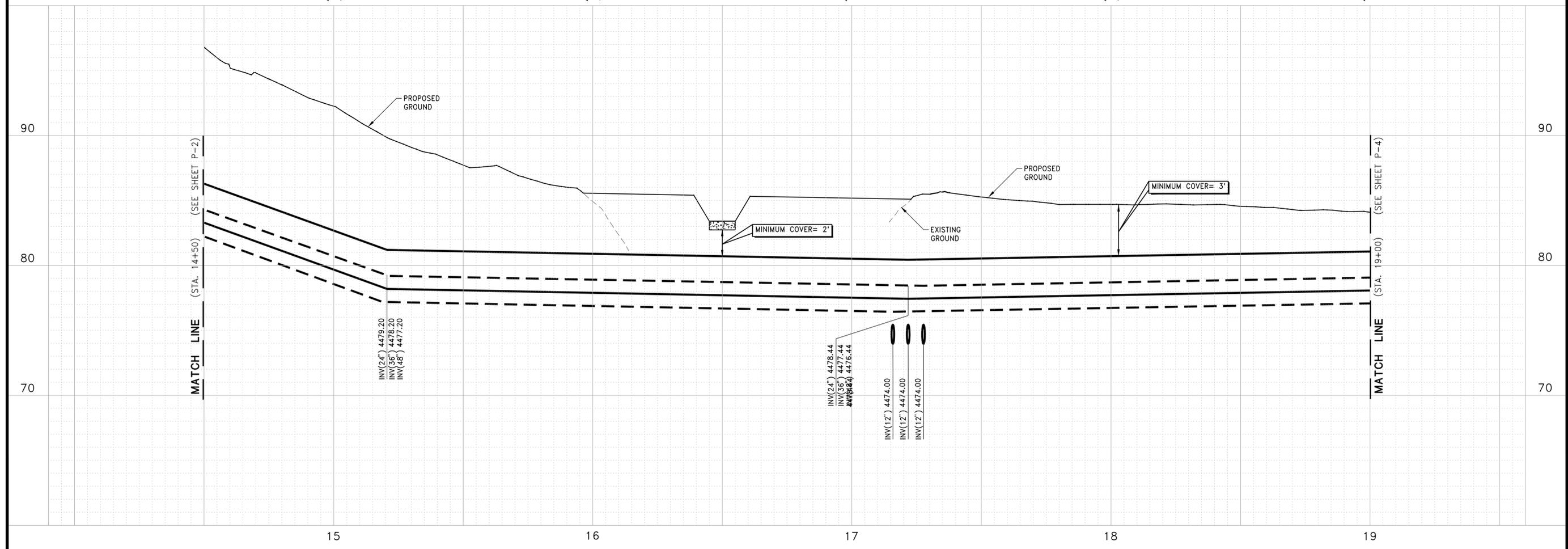
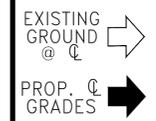
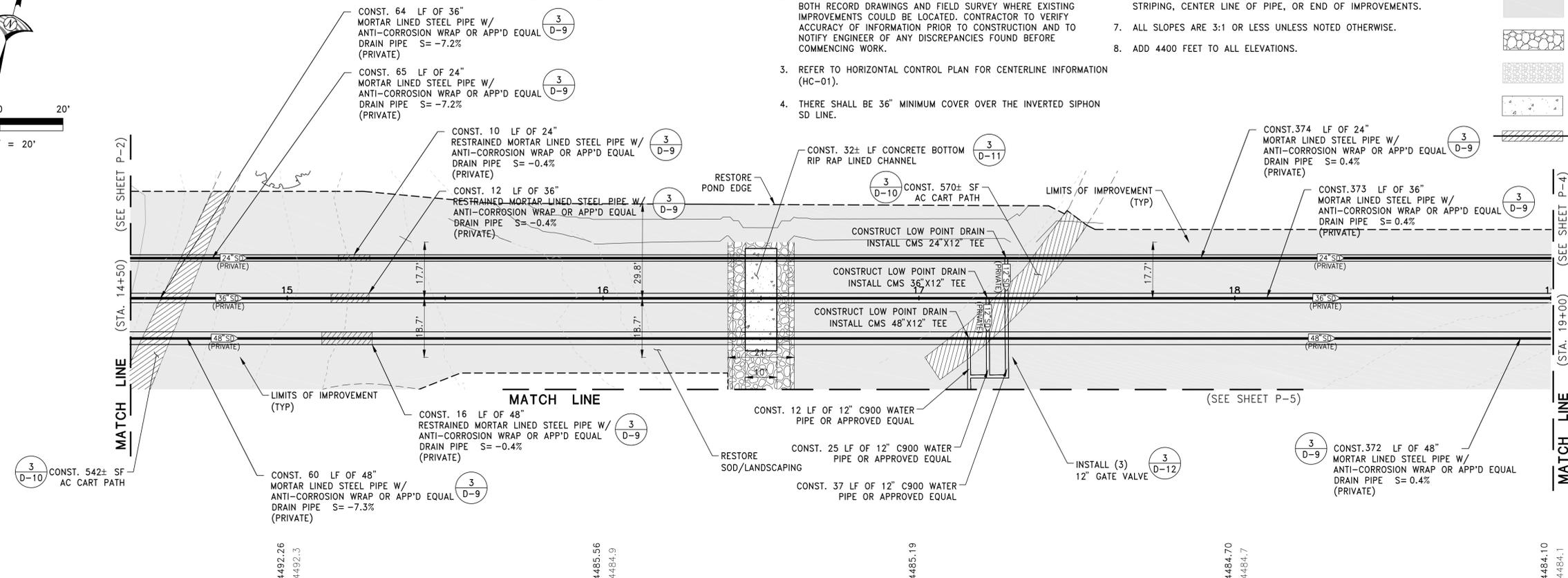
1. AVERAGE FLOW CONDITION: Q = 15.0 CFS
2. FLUSHING FLOW CONDITION: Q = 40.0 CFS
3. MAXIMUM OPERATING FLOW CONDITION: Q = 51.0 CFS
4. SYSTEM CAPACITY FLOW: Q = 160 CFS

CONSTRUCTION NOTES:

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4. THERE SHALL BE 36" MINIMUM COVER OVER THE INVERTED SIPHON SD LINE.
5. REFERENCE DM SHEETS FOR GENERAL PROTECT IN PLACE NOTES.
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7. ALL SLOPES ARE 3:1 OR LESS UNLESS NOTED OTHERWISE.
8. ADD 4400 FEET TO ALL ELEVATIONS.

LEGEND:

-  PROPOSED ASPHALT CART PATH
-  RESTORE SOD/LANDSCAPING
-  PROPOSED RIPRAP
-  PROPOSED AGGREGATE BASE ROAD
-  PROPOSED CONCRETE
-  RESTRAINED SD PIPE



PRELIMINARY - FOR REVIEW ONLY

NO.	DESCRIPTION	DATE

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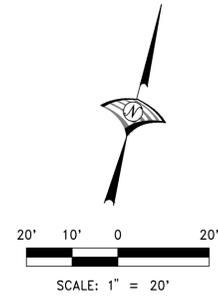
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**

PLAN AND PROFILE

PROJECT NO.
8052.001

DRAWING
P-3

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ORR DITCH OPERATING FLOWS

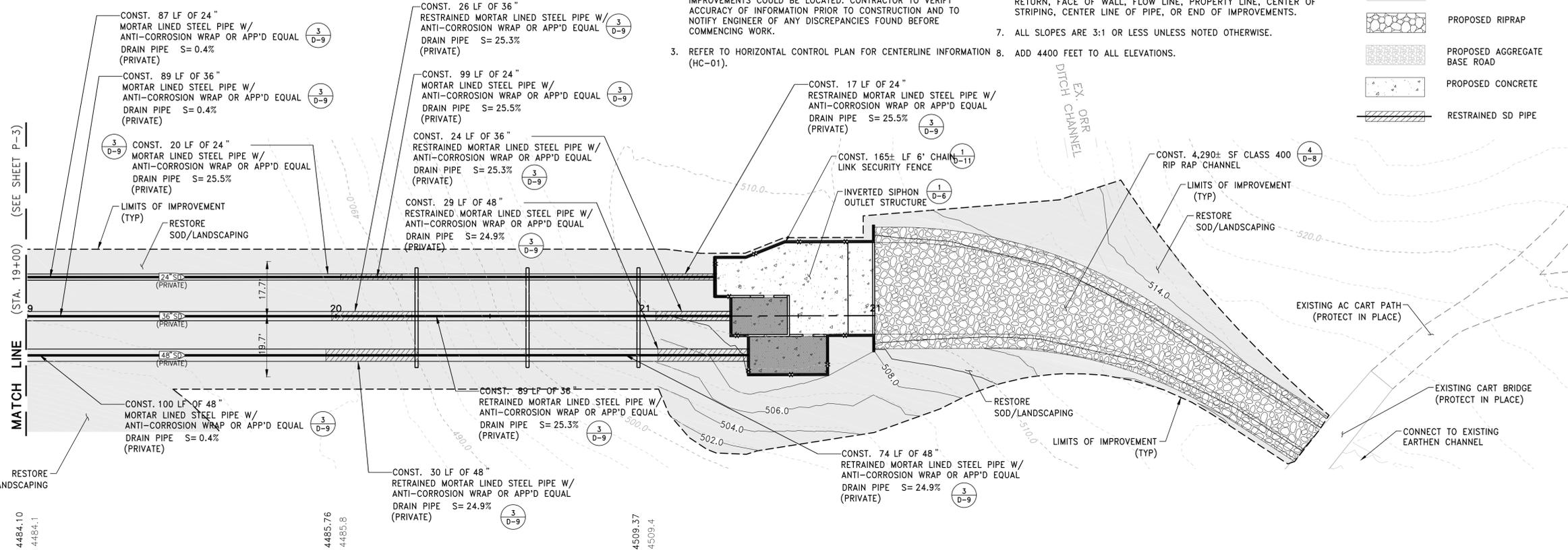
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- ADD 4400 FEET TO ALL ELEVATIONS.

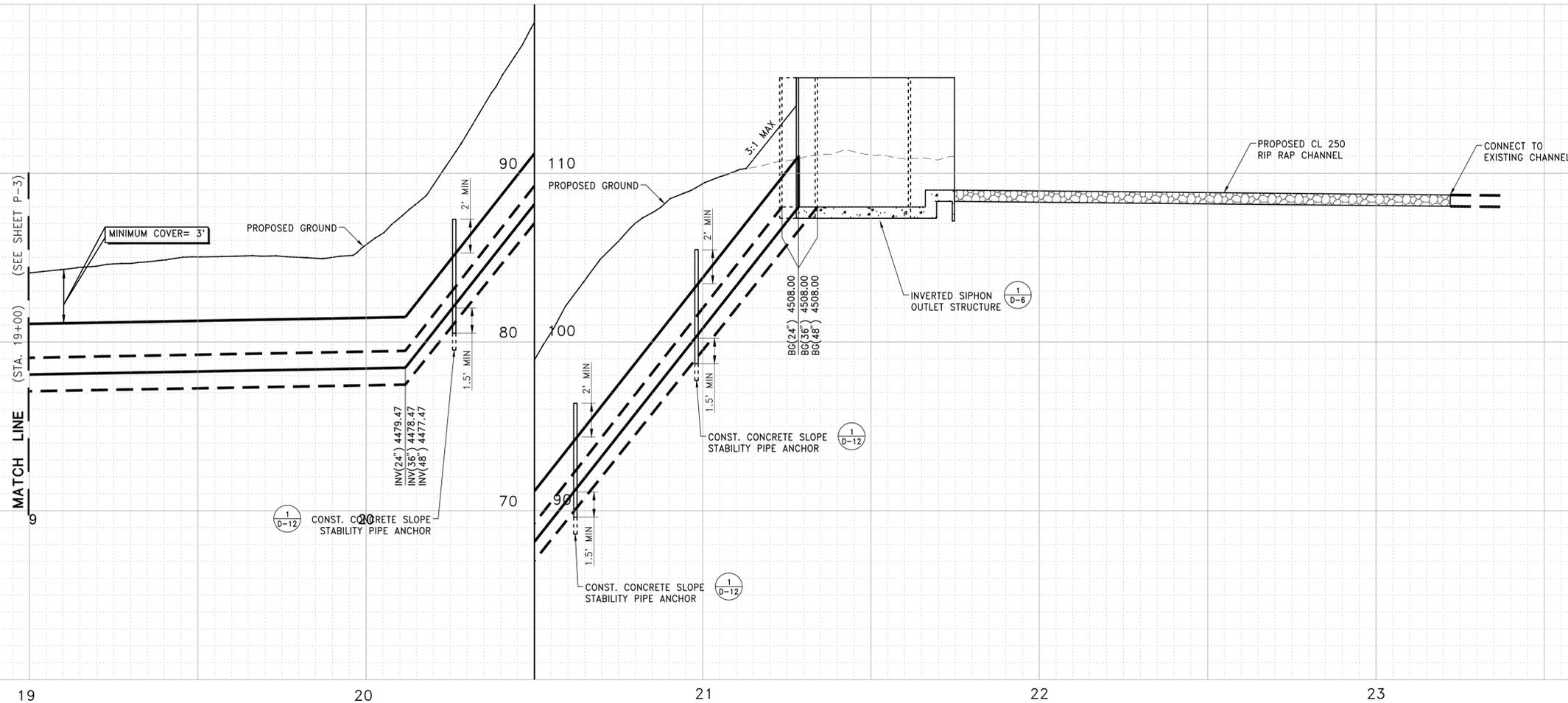
LEGEND:

- PROPOSED ASPHALT CART PATH
- RESTORE SOD/LANDSCAPING
- PROPOSED RIPRAP
- PROPOSED AGGREGATE BASE ROAD
- PROPOSED CONCRETE
- RESTRAINED SD PIPE



EXISTING GROUND @

PROP. GRADES @



PRELIMINARY - FOR REVIEW ONLY

NO.	DESCRIPTION	DATE

DATE: APRIL 2019
 SCALE: H:V = 20' : 1" V:1" = 5'
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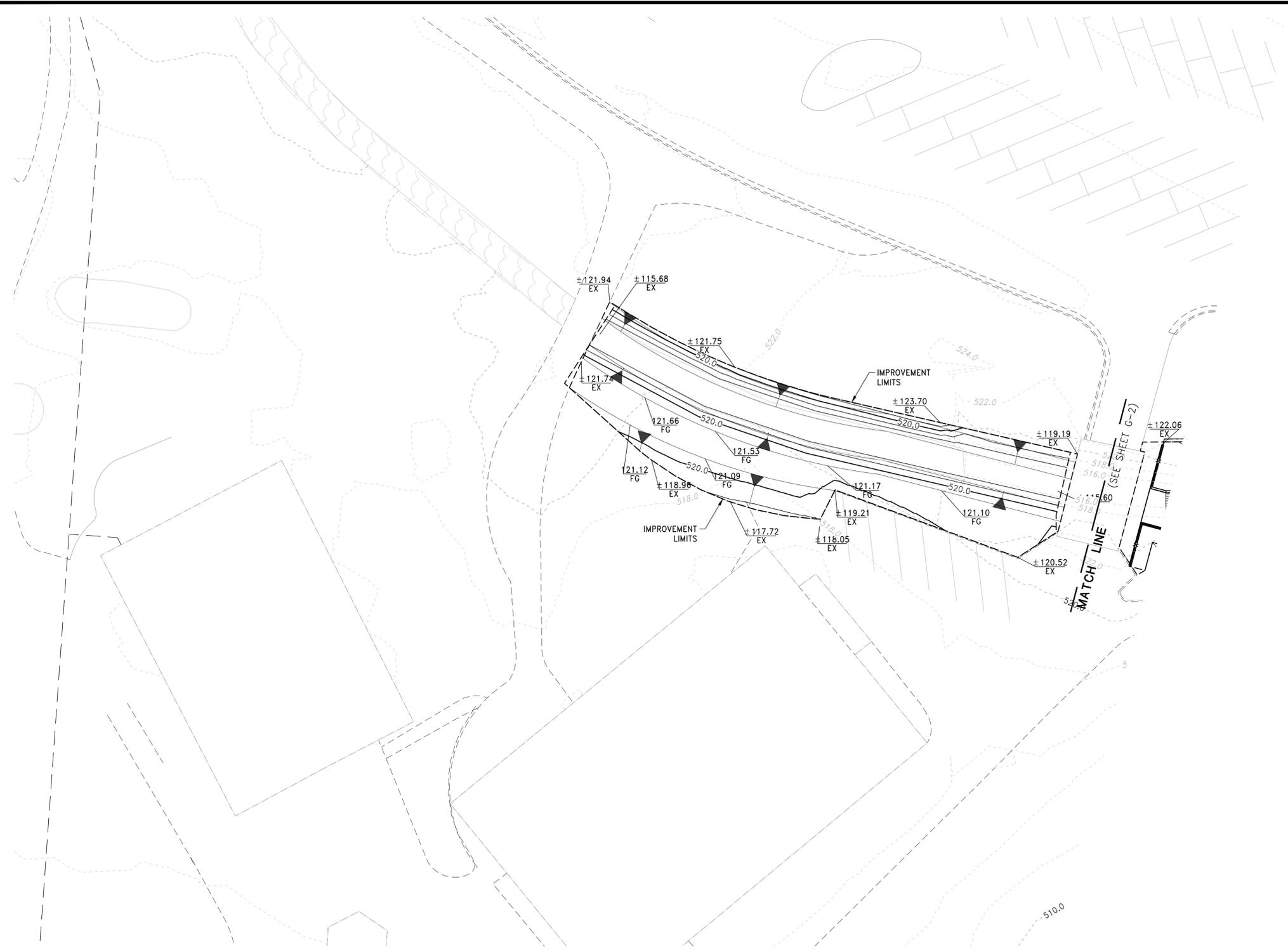


IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
 PLAN AND PROFILE

PROJECT NO.
8052.001

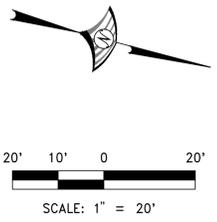
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NOTES:

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- ALL MANHOLE RIM ELEVATIONS ARE APPROXIMATE. RIMS TO BE SET AT FINISH GRADE.
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PRELIMINARY - FOR REVIEW ONLY

DATE:	APRIL 2019
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DATE	

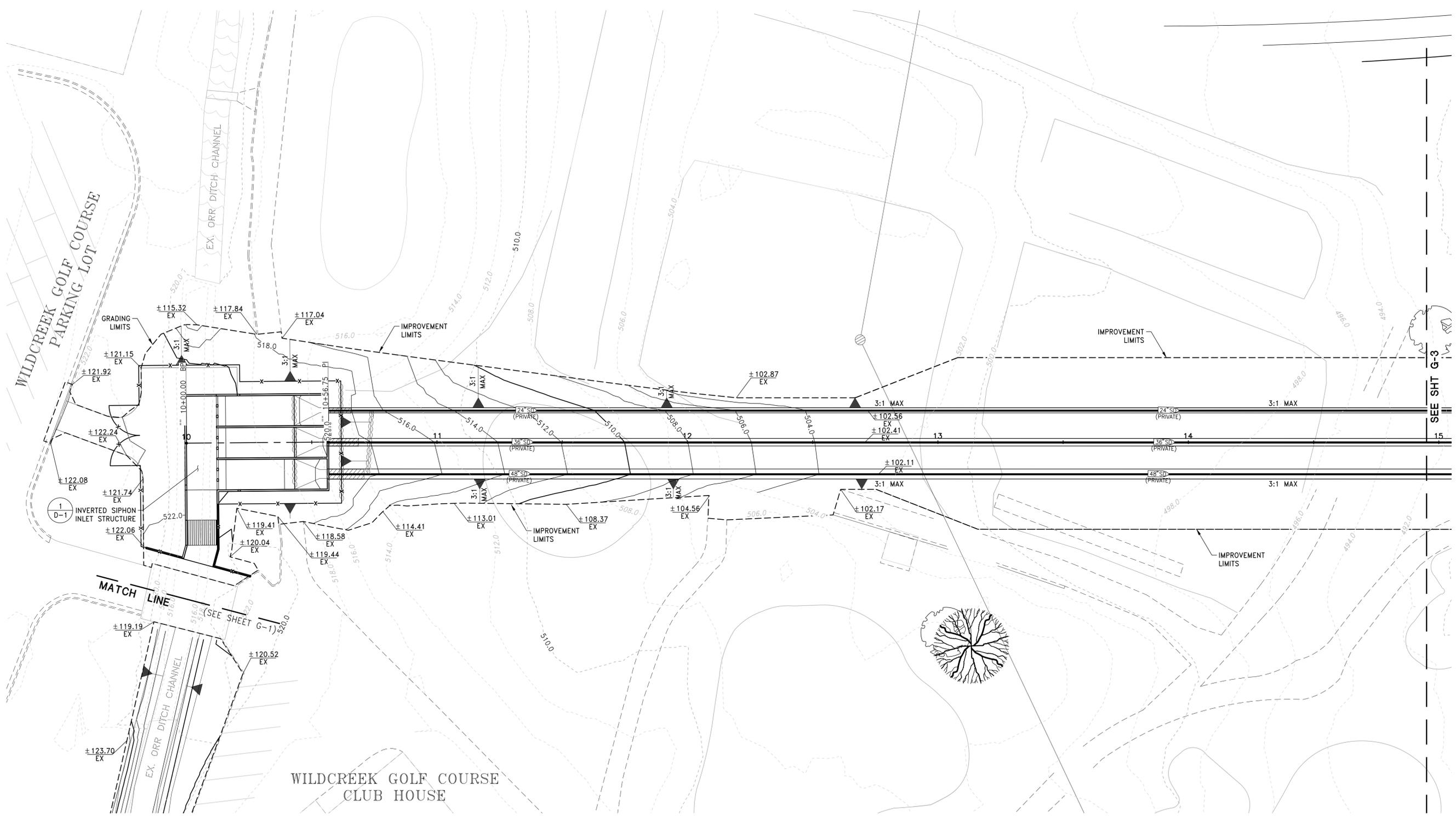
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 Reno, NV 89502
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 Washoe County School District (Washoe High School)
 4718/2019 2:00 PM Desig Dal Paris

IMPROVEMENT PLANS FOR
ORR DITCH REALIGNMENT
INVERTED SIPHON
GRADING PLAN

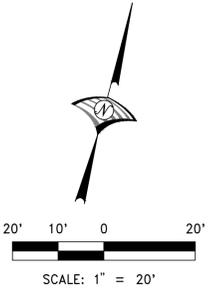
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8052.001

DRAWING
G-1



NOTES:

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WILDCREEK GOLF COURSE
CLUB HOUSE

WILDCREEK GOLF COURSE
PARKING LOT

SEE SHT G-3

PRELIMINARY - FOR REVIEW ONLY

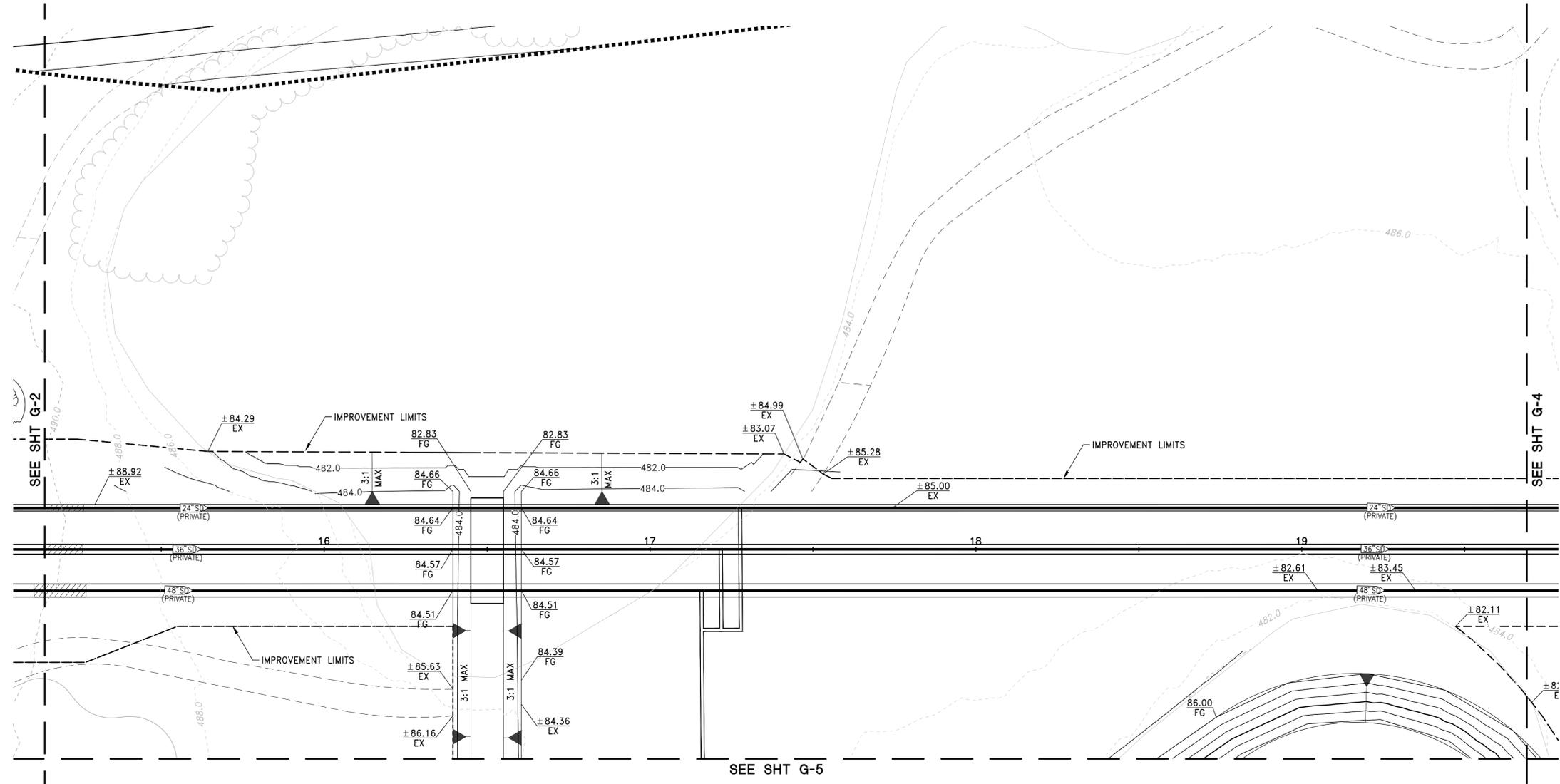
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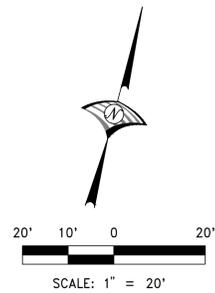
IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
INVERTED SIPHON
GRADING PLAN**
DRAWING
G-2

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NOTES:

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PRELIMINARY - FOR REVIEW ONLY

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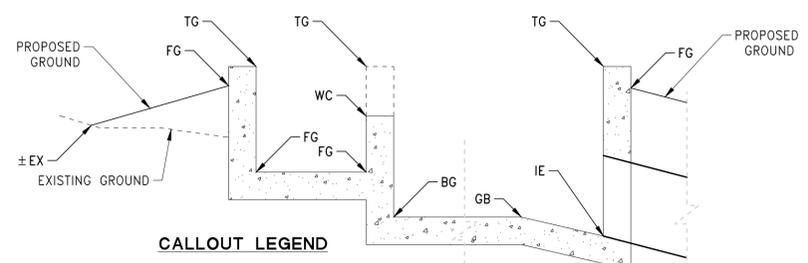
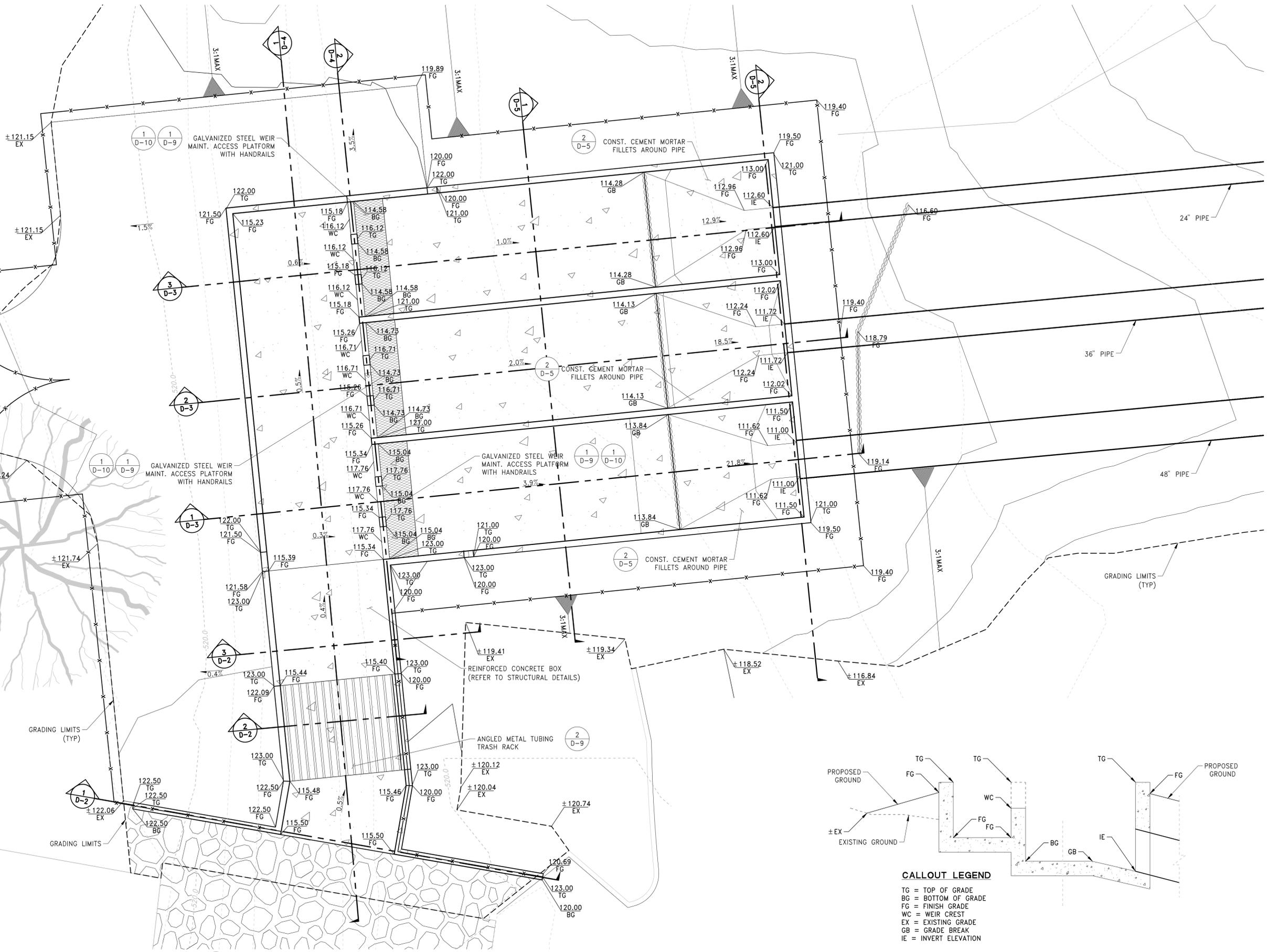
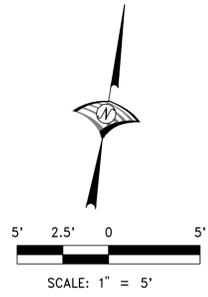
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**ORR DITCH REALIGNMENT
 INVERTED SIPHON
 GRADING PLAN**

IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON
 GRADING PLAN**

PROJECT NO.
8052.001

DRAWING
G-3



CALLOUT LEGEND

TG = TOP OF GRADE
 BG = BOTTOM OF GRADE
 FG = FINISH GRADE
 WC = WEIR CREST
 EX = EXISTING GRADE
 GB = GRADE BREAK
 IE = INVERT ELEVATION

1 TYPE 5 INLET STRUCTURE
 D-1
 1" = 5'

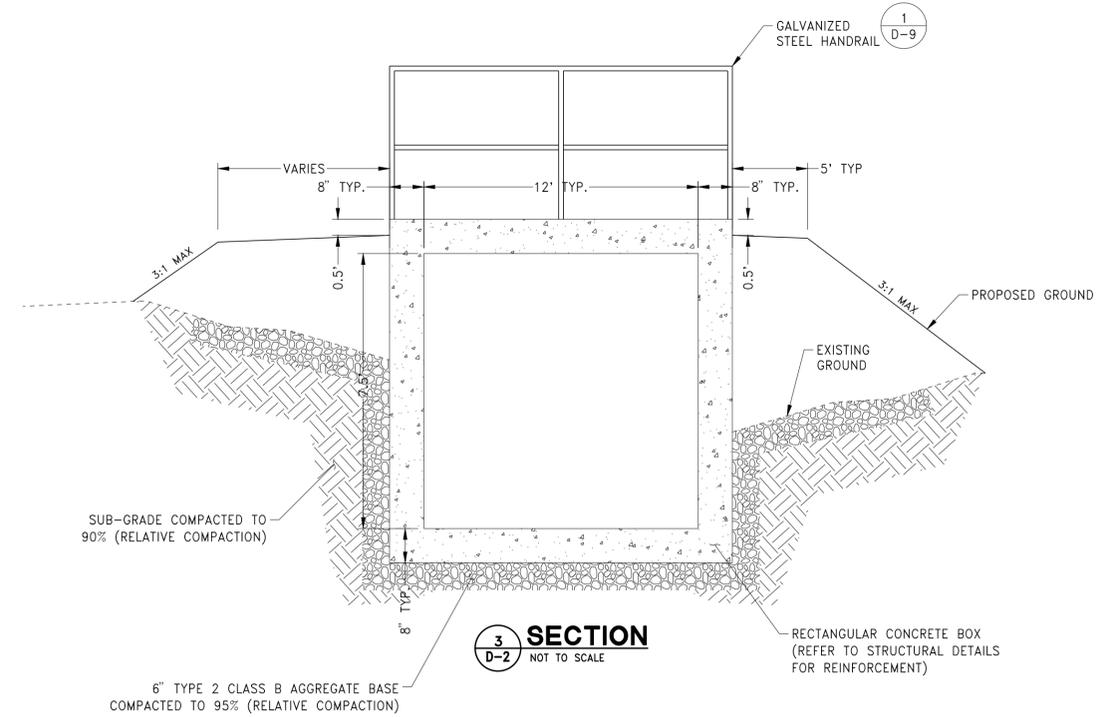
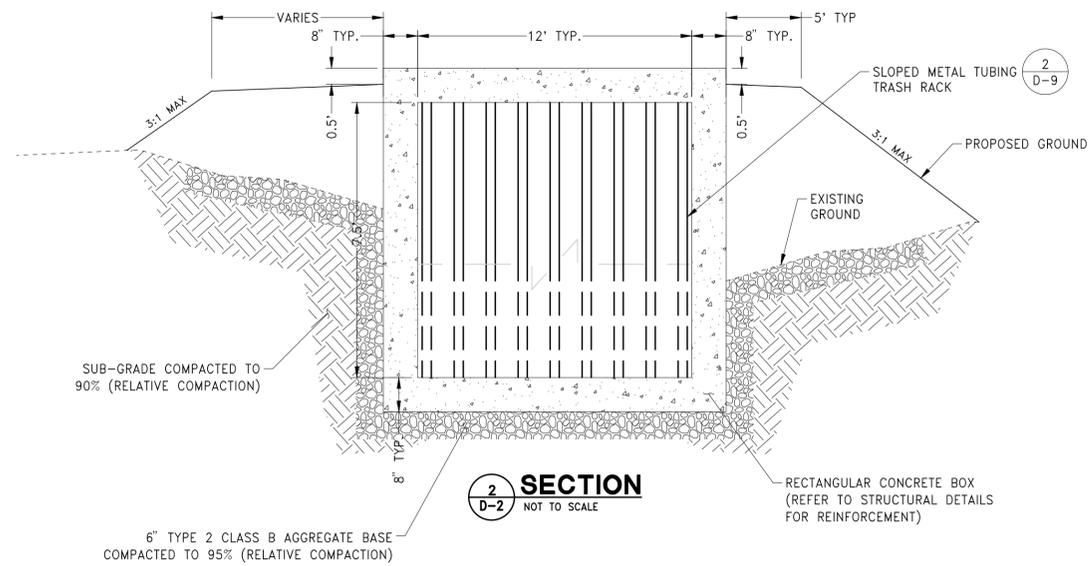
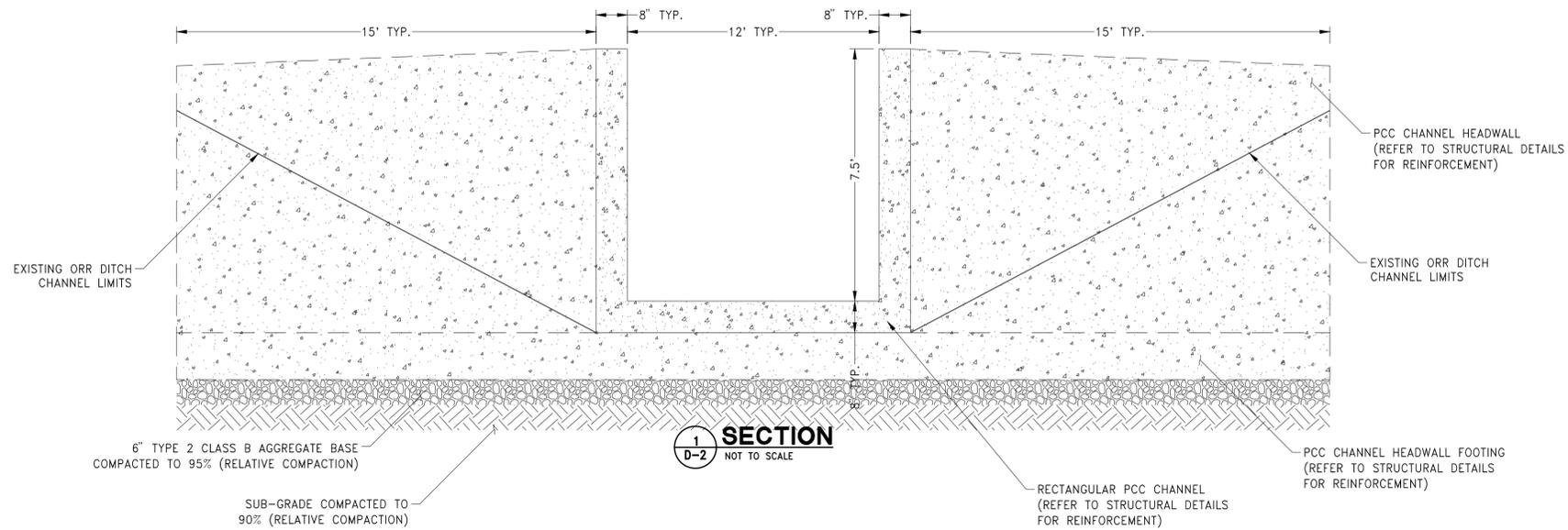
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PROJECT NO. 8052.001	DRAWING D-1			

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IMPROVEMENT PLANS FOR ORR DITCH REALIGNMENT INVERTED SIPHON INLET STRUCTURE SECTIONS



PRELIMINARY - FOR REVIEW ONLY

NO.	DESCRIPTION	DATE

DATE: APRIL 2019
 SCALE: H/N/A
 DRAWN BY: DAD
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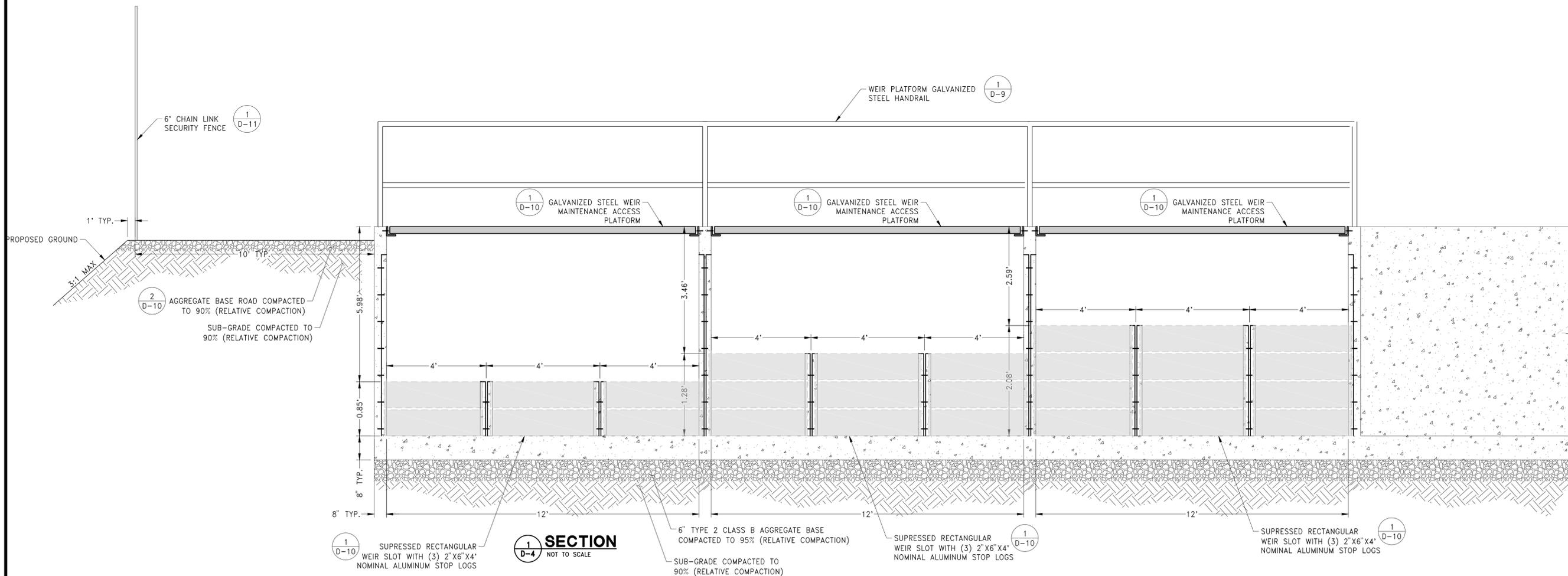
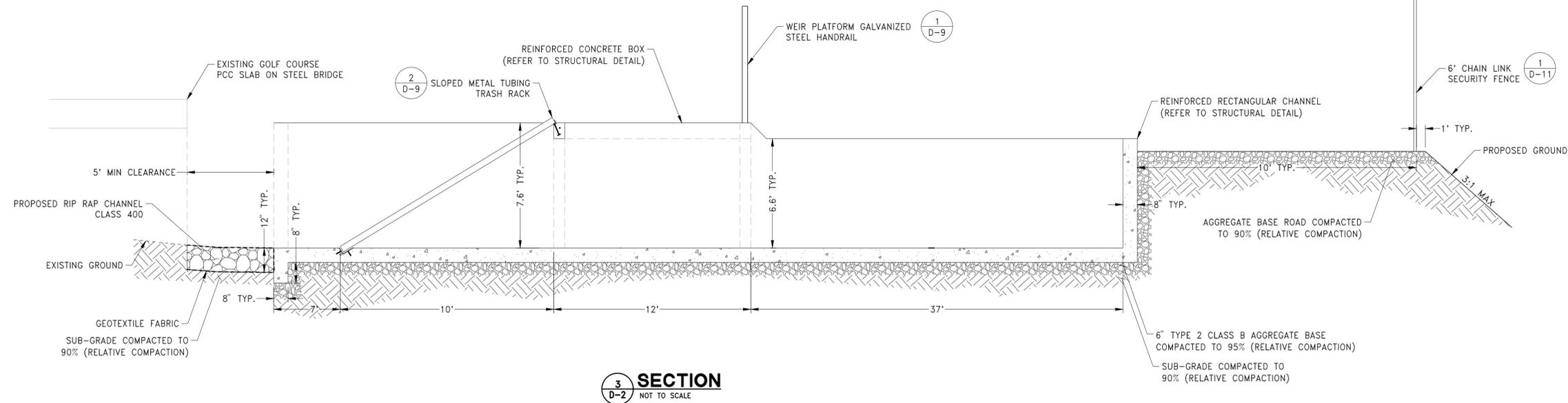
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 1361 Corporate Blvd
 Reno, NV 89502
 Tel: 775.823.4068
 Fax: 775.823.4066



IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
 INLET STRUCTURE SECTIONS

PROJECT NO.
8052.001
 DRAWING
D-2

J:\Users\8052_Washoe County School District\Widreack High School\ - Widreack HS Orr Ditch Realignement\Civil\Draw\020_002_WCHS_IPH.dwg 4/18/2019 2:03 PM Doug Del Porto



PRELIMINARY - FOR REVIEW ONLY

DATE:	APRIL 2019
SCALE:	H/N/A
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DESCRIPTION	
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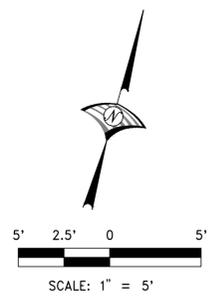
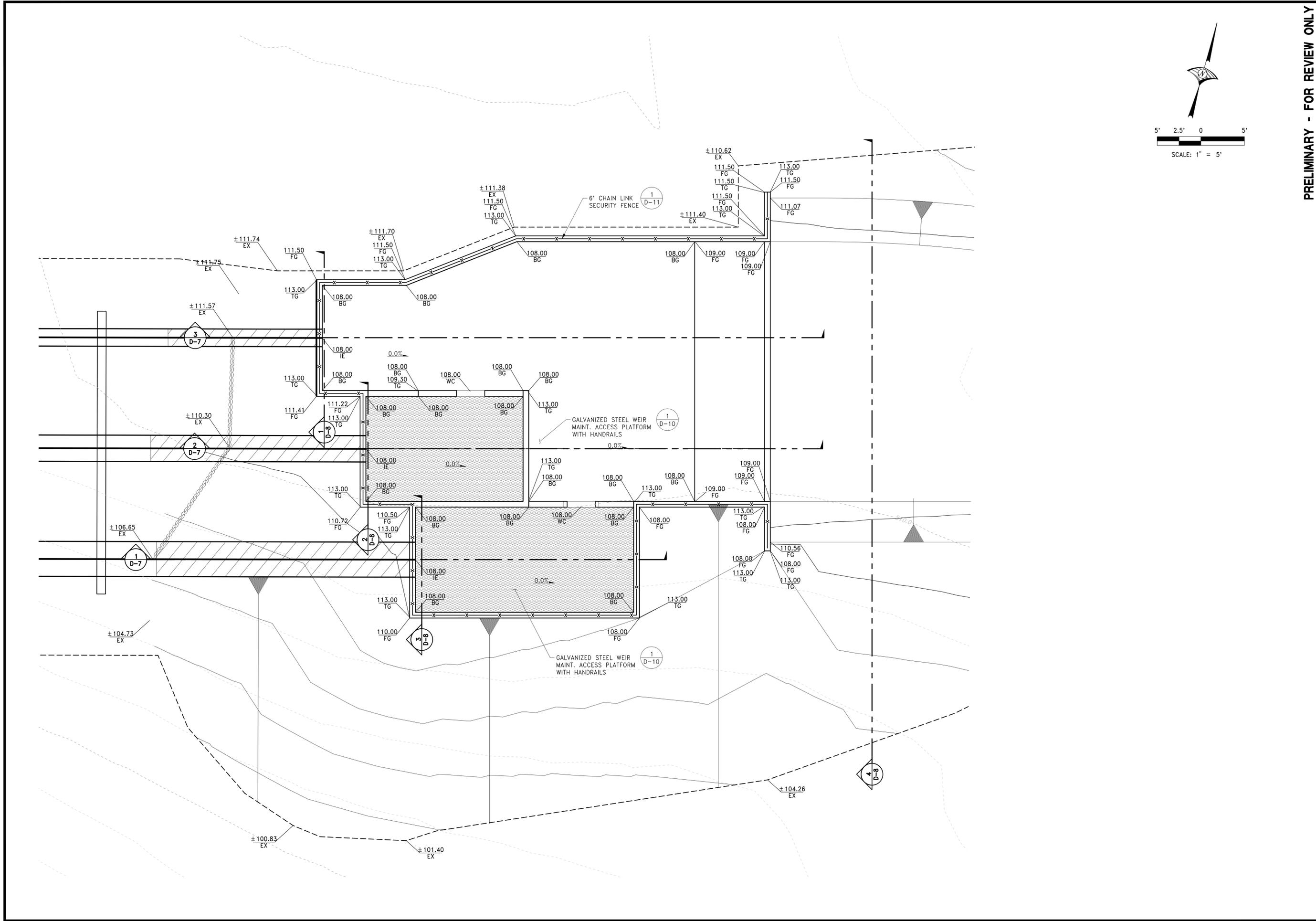
Washoe County School District
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**ORR DITCH REALIGNMENT
 INVERTED SIPHON**

INLET STRUCTURE SECTIONS

PROJECT NO.
8052.001

DRAWING
D-4



PRELIMINARY - FOR REVIEW ONLY

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DATE: APRIL 2019
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 DESIGNED BY: DAD
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PROJECT NO.
8052.001

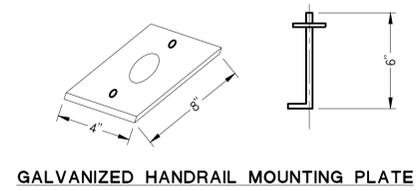
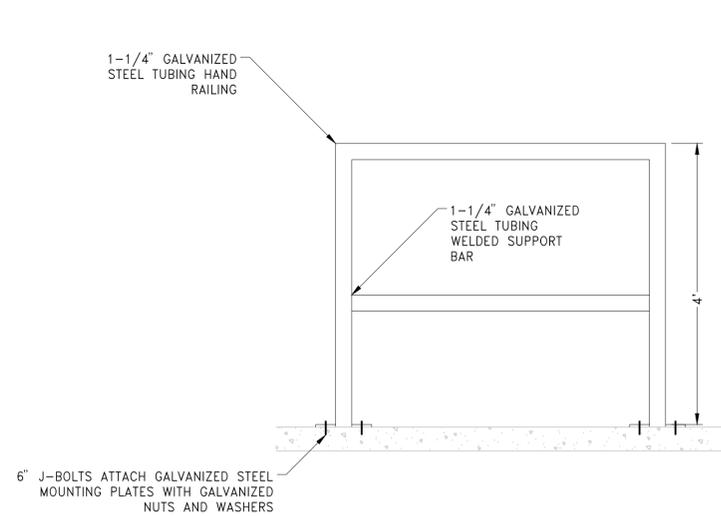
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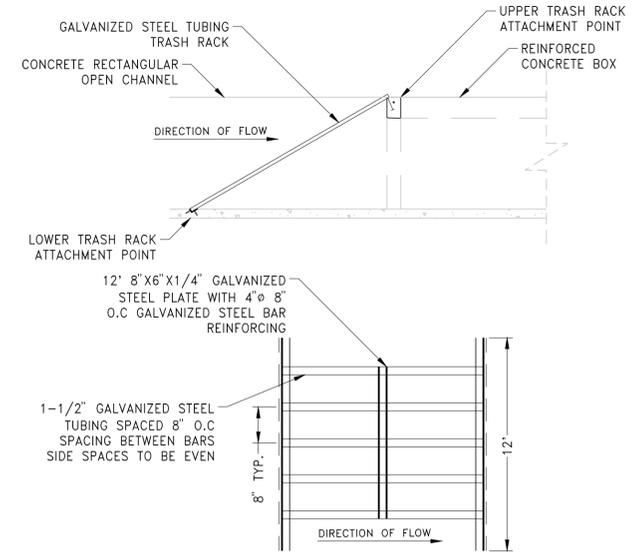
IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
 INVERTED SIPHON**
OUTLET STRUCTURE DETAIL

PROJECT NO.
8052.001
 DRAWING
D-6

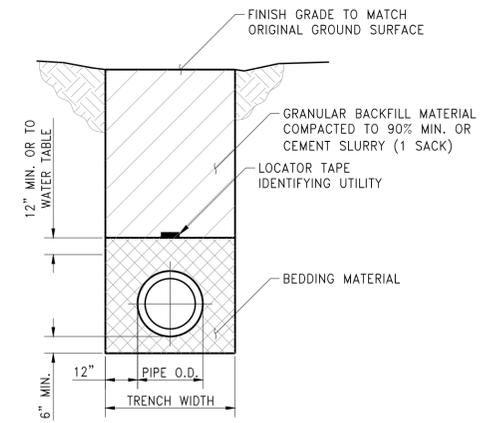
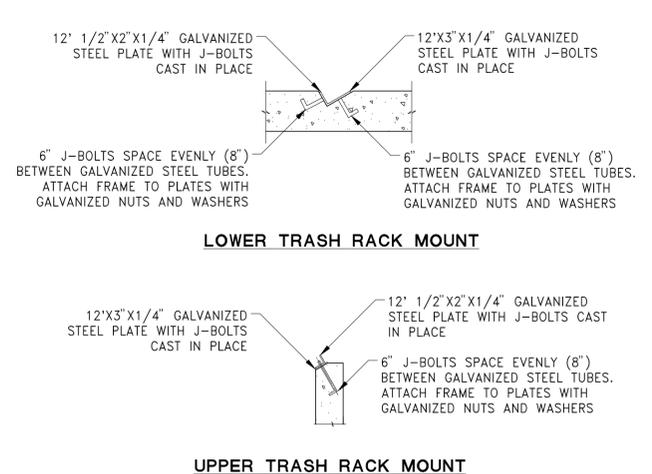
J:\Users\80522\Washoe County School District\Widbreak High School\1 - Widbreak HS Orr Ditch Realignment\Civil\Draw\024_006_WCHS_BPI.dwg 4/18/2019 2:04 PM Desq Del Porto



1 GALVANIZED STEEL TUBING HAND RAIL
D-9 N.T.S.

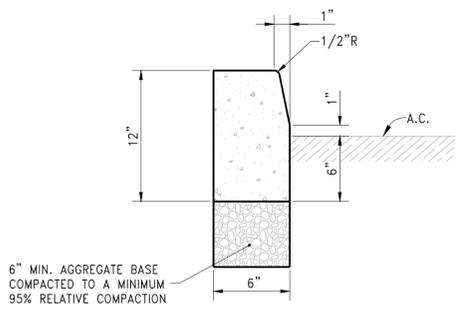


2 TRASH RACK
D-9 N.T.S.



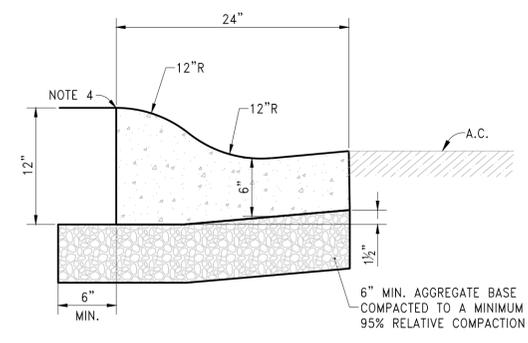
- NOTES:**
1. A PERMIT MUST BE OBTAINED FROM THE CITY ENGINEER PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITTEE MUST NOTIFY THE CITY EXCAVATION PERMIT INSPECTOR OR APPLICABLE ENGINEER OF RECORD.
 2. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION.
 3. BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE CITY OF SPARKS. CEMENT SLURRY BEDDING/BACKFILL MAY BE USED AS AN ALTERNATE TO CLASS "A", "B" OR "C" MATERIAL WITH WRITTEN APPROVAL FROM THE CITY ENGINEER FOR EACH SPECIFIC APPLICATION.
 4. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS. SHORING OR SLOPED CUT MAY BE NECESSARY, BUT THERE WILL BE NO PAYMENT FOR ADDITIONAL EXCAVATION, BEDDING, BACKFILL, OR SHORING.
 5. PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED.

3 PIPE TRENCH DETAIL
D-9 N.T.S.



- NOTES:**
1. RADIUS TO BE 1/2 INCH. OMIT ROUNDING IF CURBS ARE BACK TO BACK.
 2. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 3. AGGREGATE BASE MATERIAL UNDER POST CURBS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.

4 POST CURB
D-9 N.T.S.



- NOTES:**
1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 2. AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
 3. WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND LOCATED ON THE BACK, TOP AND FACE OF THE CURB AND THE TOP OF THE GUTTER PAN.

5 ROLLED CURB
D-9 N.T.S.

PRELIMINARY - FOR REVIEW ONLY

NO.	DESCRIPTION	DATE

DATE:	APRIL 2019
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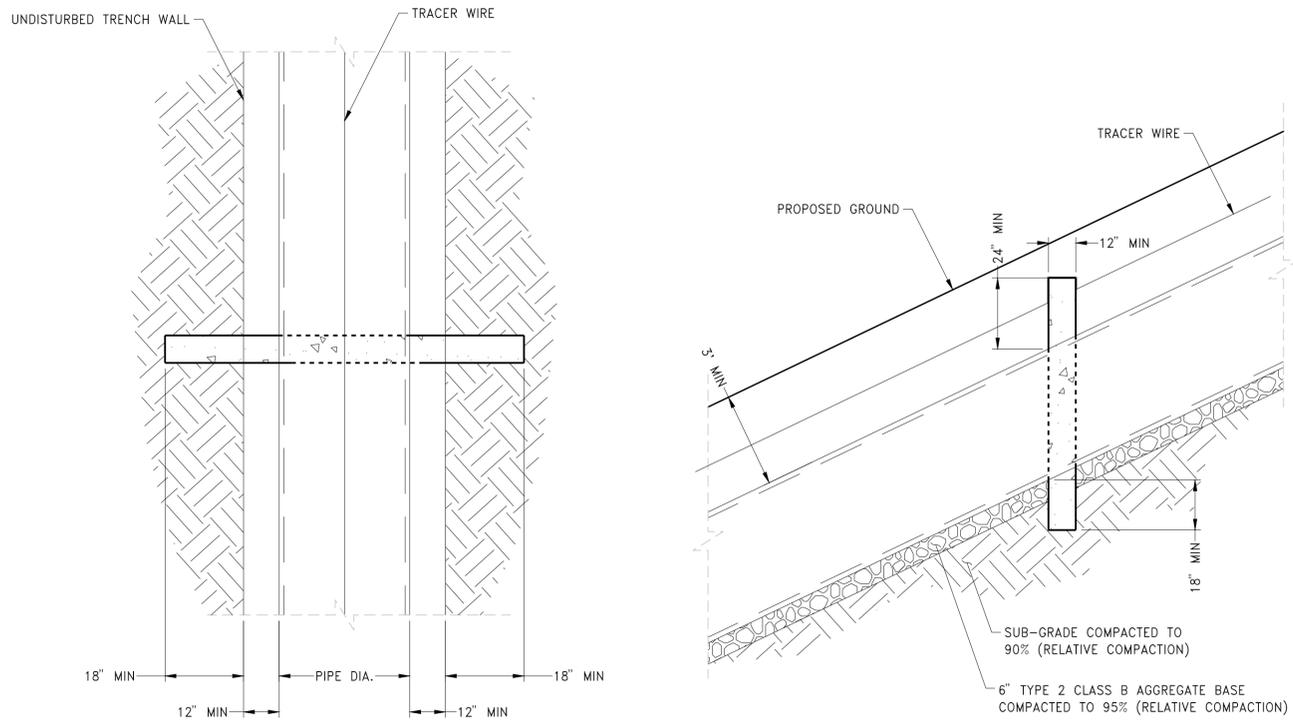
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IMPROVEMENT PLANS FOR
**ORR DITCH REALIGNMENT
INVERTED SIPHON**
DETAILS

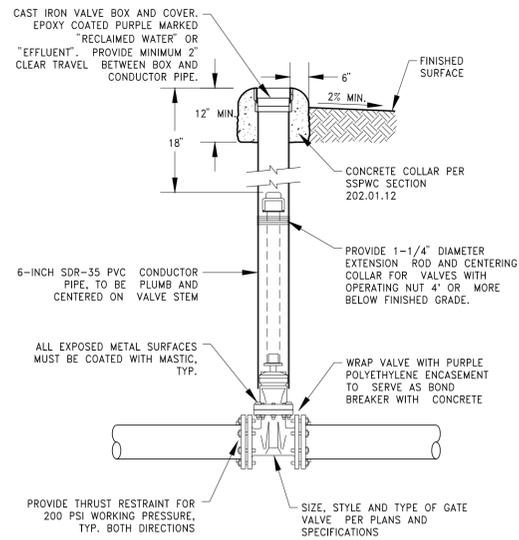
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DRAWING D-9



PLAN VIEW

ELEVATION VIEW

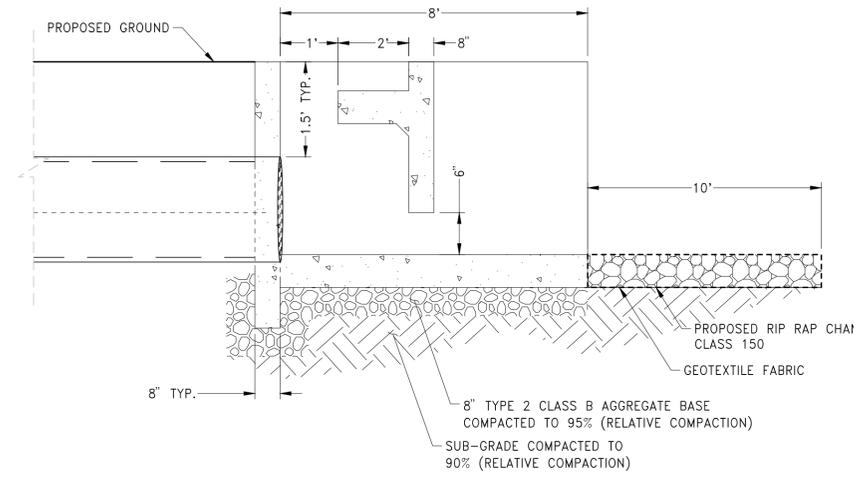
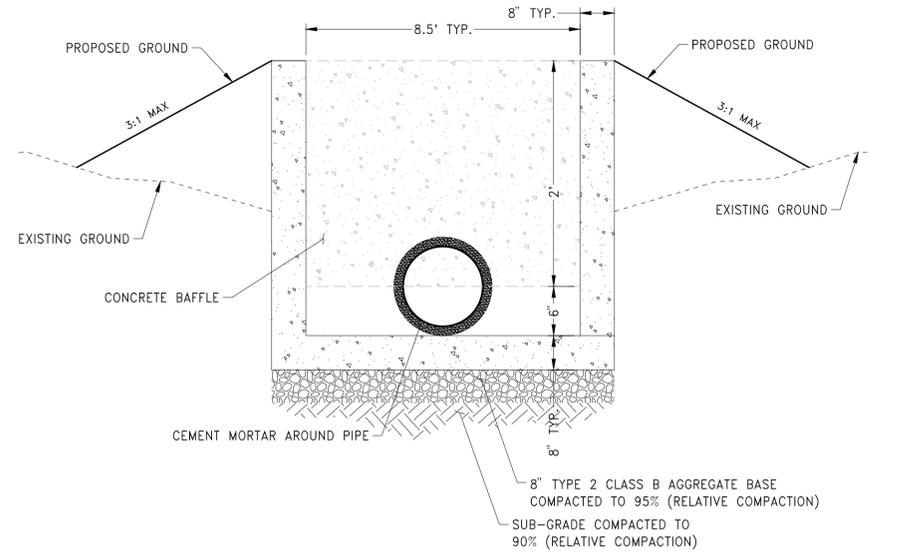
1 PIPE SLOPE ANCHOR
N.T.S.



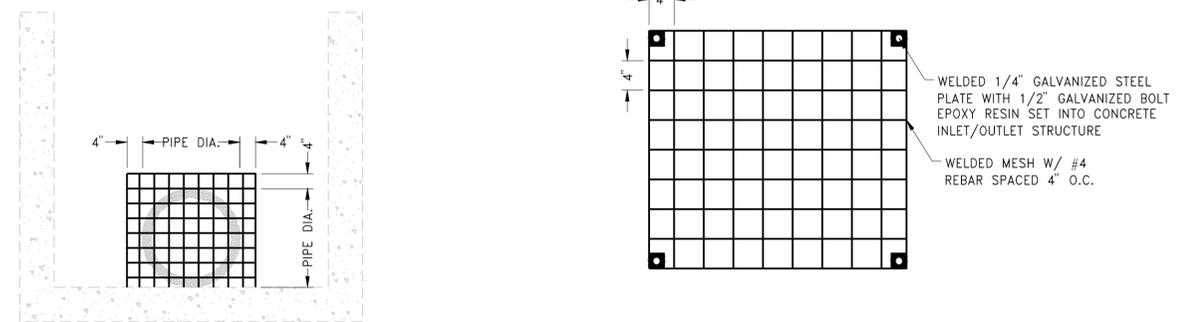
GATE VALVES 3-INCH TO 12-INCH. AWWA C509 OR C515. IRON BODY, FUSION BONDED EPOXY INTERIOR AND EXTERIOR COATING, BRONZE MOUNTED, NON-RISING STEM, SOLID WEDGED GATES, MINIMUM 200 PSIG WORKING PRESSURE, DOUBLE O-RING STEM SEALS, 2-INCH OPERATING NUT, COUNTERCLOCKWISE TO OPEN.

GATE VALVES, 2-INCH AND SMALLER. IRON BODY, NON-RISING STEM, SOLID WEDGED GATES, MINIMUM 200 PSIG WORKING PRESSURE, 2-INCH OPERATING NUT, COUNTERCLOCKWISE TO OPEN.

3 GATE VALE
N.T.S.



2 BAFFLED OUTLET
N.T.S.



4 PIPE ENTRANCE/EXIT GRATE
N.T.S.

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DATE:	APRIL 2019	NO.	DESCRIPTION	DATE	
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IMPROVEMENT PLANS FOR
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DETAILS

PROJECT NO.
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