

CITY OF GRAND JUNCTION / MESA COUNTY
PERSIGO WASH WASTEWATER TREATMENT PLANT

PERSIGO WASTEWATER TREATMENTS
DIFFUSER OUTFALL IMPROVEMENTS

FINAL CONSTRUCTION DRAWINGS



JULY 2017

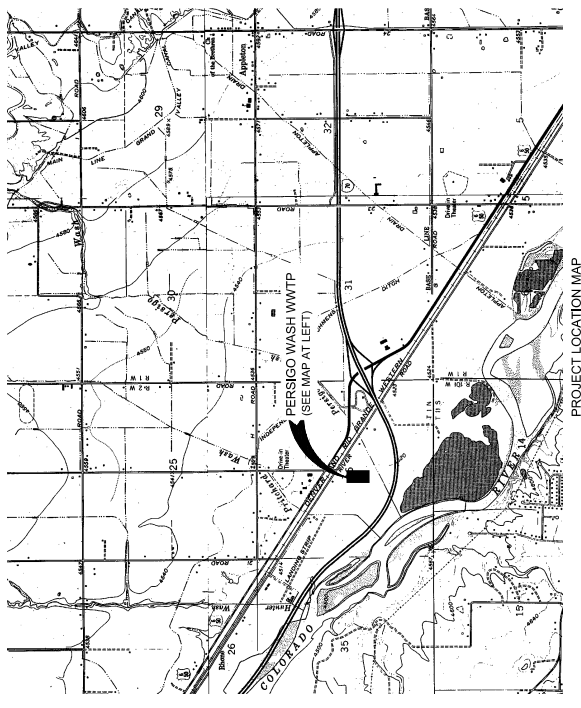
Project Number: 205305055

| Revision | By | App'd | Checked | Drawn | Date |
|----------|----|-------|---------|-------|------|
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THIS PROJECT LOCATION MAP, GENERAL NOTES AND LIST OF DRAWINGS IS PART OF THE PERISGO WASTEWATER TREATMENT PLANT DIFFUSER OUTFALL IMPROVEMENTS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.



Permit-No: 2023030505
 Drawing No. G002
 Revision: Sheet
 Date: 08/13/23
 City: GRAND JUNCTION
 County: MESA COUNTY



PROJECT LOCATION MAP

N.T.S.

DRAWING INDEX

| REVISION | SHEET NUMBER | DRAWING NUMBER | DRAWING TITLE |
|----------|--------------|----------------|--|
| 1 | G001 | | COVER SHEET |
| 2 | G002 | | PROJECT LOCATION MAP, GENERAL NOTES, AND LIST OF DRAWINGS |
| 3 | G003 | | LEGEND AND SYMBOLS |
| 4 | G000 | | PROJECT ASSESSMENT PLAN |
| 5 | C100 | | OVERALL SITE PLAN AND PROJECT CONTROL MAP |
| 6 | C101 | | PROVISION CONTROL NOTES SHEET 1 OF 3 |
| 7 | C102 | | PROVISION CONTROL NOTES SHEET 2 OF 3 |
| 8 | C103 | | PROVISION CONTROL NOTES SHEET 3 OF 3 |
| 9 | C200 | | OUTFALL PIPELINE PLAN AND PROFILE STA. 20+00.00 TO 20+86.86 |
| 10 | C201 | | OUTFALL PIPELINE PLAN AND PROFILE STA. 20+86.86 TO 30+00.00 |
| 11 | C202 | | DIFFUSER PIPELINE PLAN AND PROFILE STA. 20+86.86 TO 30+00.00 |
| 12 | C300 | | DIFFUSER DETAILS |
| 13 | C500 | | PIPE AND MANHOLE DETAILS |
| 14 | C501 | | PROVISION CONTROL DETAILS |
| 15 | C502 | | EXISTING EFFLUENT BOX STRUCTURAL PLAN, SECTIONS AND DETAILS |
| 16 | C503 | | |
| 17 | S100 | | |

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY THE CITY OF GRAND JUNCTION AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES THAT WILL BE AFFECTED PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ELEVATIONS, DIMENSIONS FOR THE EXISTING PIPING SHOWN ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
- EXISTING WASTEWATER TREATMENT SYSTEM SHALL REMAIN ACTIVE FOR THE DURATION OF THE PROJECT. COORDINATE WITH THE OWNER IF INTERFERENCE OR CONFLICTS WITH THE EXISTING WASTEWATER TREATMENT SYSTEM IS NEEDED FOR CONSTRUCTION.
- THE MAIN ACCESS ROAD, ACCESS SOUTH OF 170, SHALL BE AS SHOWN ON DWS, G100.
- EFFORTS TO SHOW EXISTING PIPING IN THEIR APPROPRIATE LOCATION HAVE BEEN MADE AND ARE SHOWN HEREIN. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES.

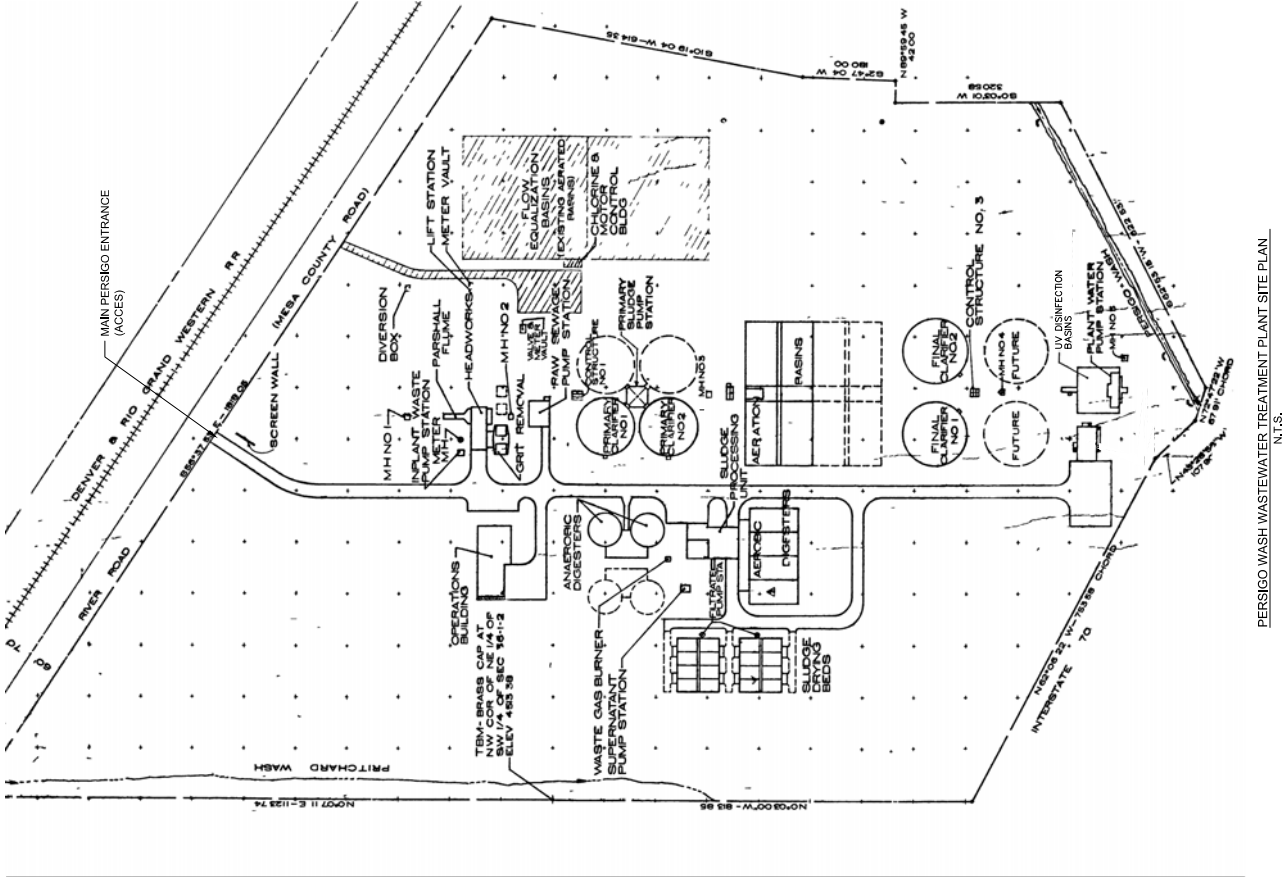
CONTACT INFORMATION:

DESIGN ENGINEER
 STANTEC
 2000 S. COLOrado BLVD, SUITE 2-300
 DENVER, CO 80202
 (303) 285-4594

OWNER
 LEE COPPER, P.E.
 CITY OF GRAND JUNCTION
 GRAND JUNCTION CO, 81501
 (970) 256-4155

US FISH & WILDLIFE SERVICE
 448 WEST CUNNINGHAM BLVD, SUITE 240
 GRAND JUNCTION CO, 81501
 (970) 628-7189

QDOT PERMISSARIES
 UTILITY AND SPECIAL USE PERMIT COORDINATOR
 222 SOUTH 6TH STREET ROOM 100
 GRAND JUNCTION CO, 81501
 (970) 683-6288



PERISGO WASH WASTEWATER TREATMENT PLANT SITE PLAN

N.T.S.



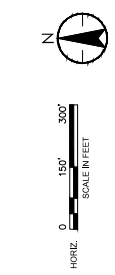
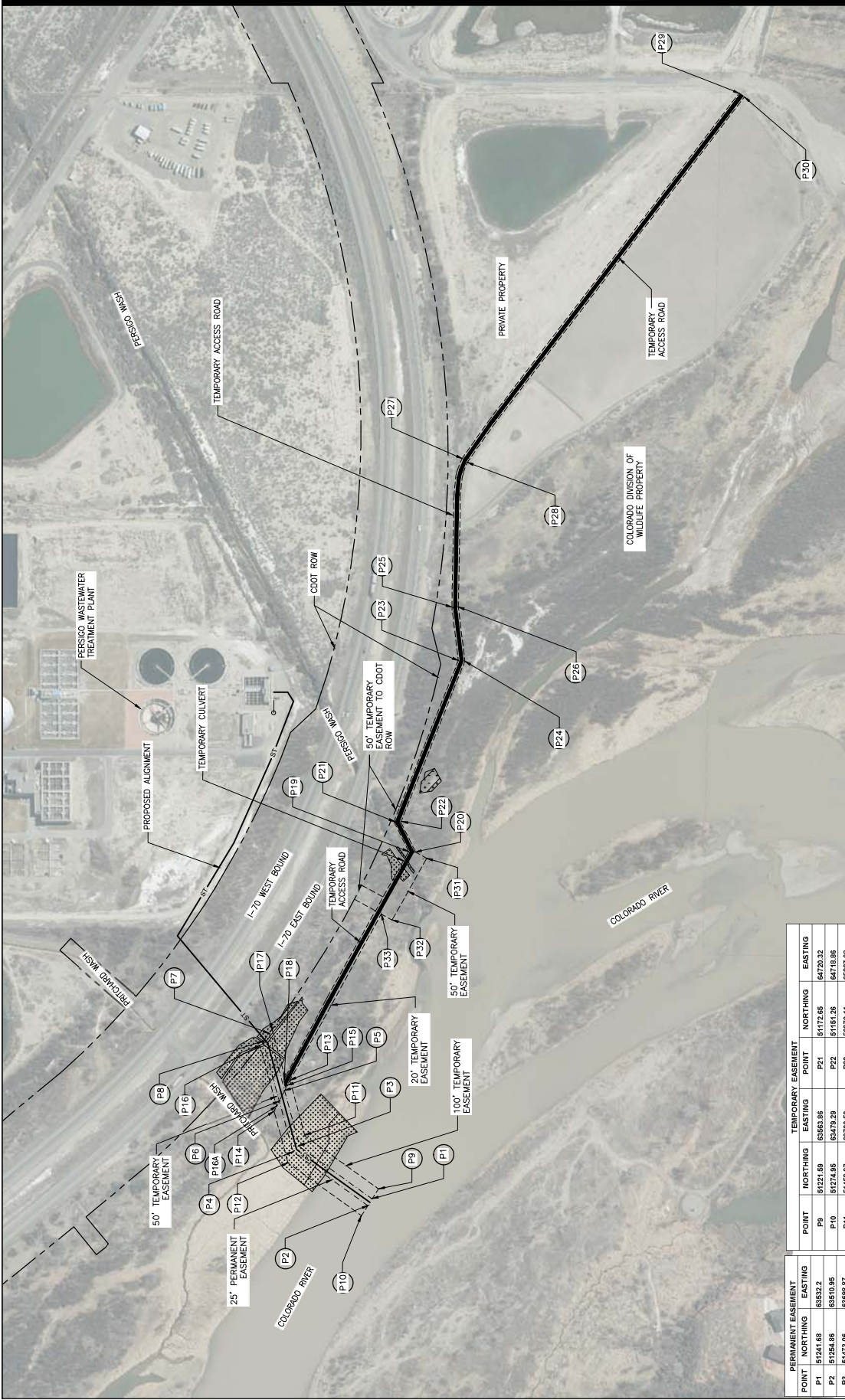
2000 South Colorado Boulevard Suite 2000
 Denver, CO 80202
 WWW.STANTEC.COM
 THE DESIGN OF THIS PROJECT HAS BEEN REVIEWED BY AN ENGINEER AND THE DESIGN IS APPROVED FOR CONSTRUCTION.
 NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION FROM STANTEC.

| Region | | Issued | |
|--------|-------|--------|-------|
| BY | DATE | BY | DATE |
| _____ | _____ | _____ | _____ |
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CITY OF GRAND JUNCTION / MESA COUNTY
 PERSIGO WASTEWATER TREATMENT PLANT
 PERMITS
 PROJECT EASEMENT PLAN



| | |
|---------------------------|---------|
| Permit Number: 2023030505 | Sheet |
| Revision | B |
| Drawing No. G100 | 4 of 17 |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |
| DATE | |



LEGEND

| | |
|--|--------------------|
| | WETLANDS |
| | CDOT ROW |
| | PERMANENT EASEMENT |
| | OUTFALL |
| | TEMPORARY EASEMENT |
| | TEMPORARY ACCESS |

| PERMANENT EASEMENT | | TEMPORARY EASEMENT | |
|--------------------|-------------------|--------------------|-------------------|
| POINT | NORTHING EASTING | POINT | NORTHING EASTING |
| P1 | 51241.68 63832.2 | P21 | 51172.66 64203.32 |
| P2 | 51254.86 63846.96 | P22 | 51157.26 64176.96 |
| P3 | 51473.06 63958.87 | P23 | 50970.11 65227.86 |
| P4 | 51490.01 63968.77 | P24 | 50946.89 65226.86 |
| P5 | 51516.09 63973.17 | P25 | 50950.43 65395.86 |
| P6 | 51533.07 63946.29 | P26 | 50970.08 65396.76 |
| P7 | 51585.78 64053.32 | P27 | 68863.94 60986.15 |
| P8 | 51584.92 64029.38 | P28 | 50944.77 68882.01 |
| | | P29 | 50808.32 67014.74 |
| | | P30 | 50868.93 67022.81 |
| | | P31 | 51070.14 64604.81 |
| | | P32 | 51176.38 64410.51 |
| | | P33 | 51212.71 64429.34 |

| Region | By | Approved | Scale | Date |
|--------|-----------------|-----------------------|----------------|---------------|
| | BY: [Signature] | APPROVED: [Signature] | SCALE: [Blank] | DATE: [Blank] |

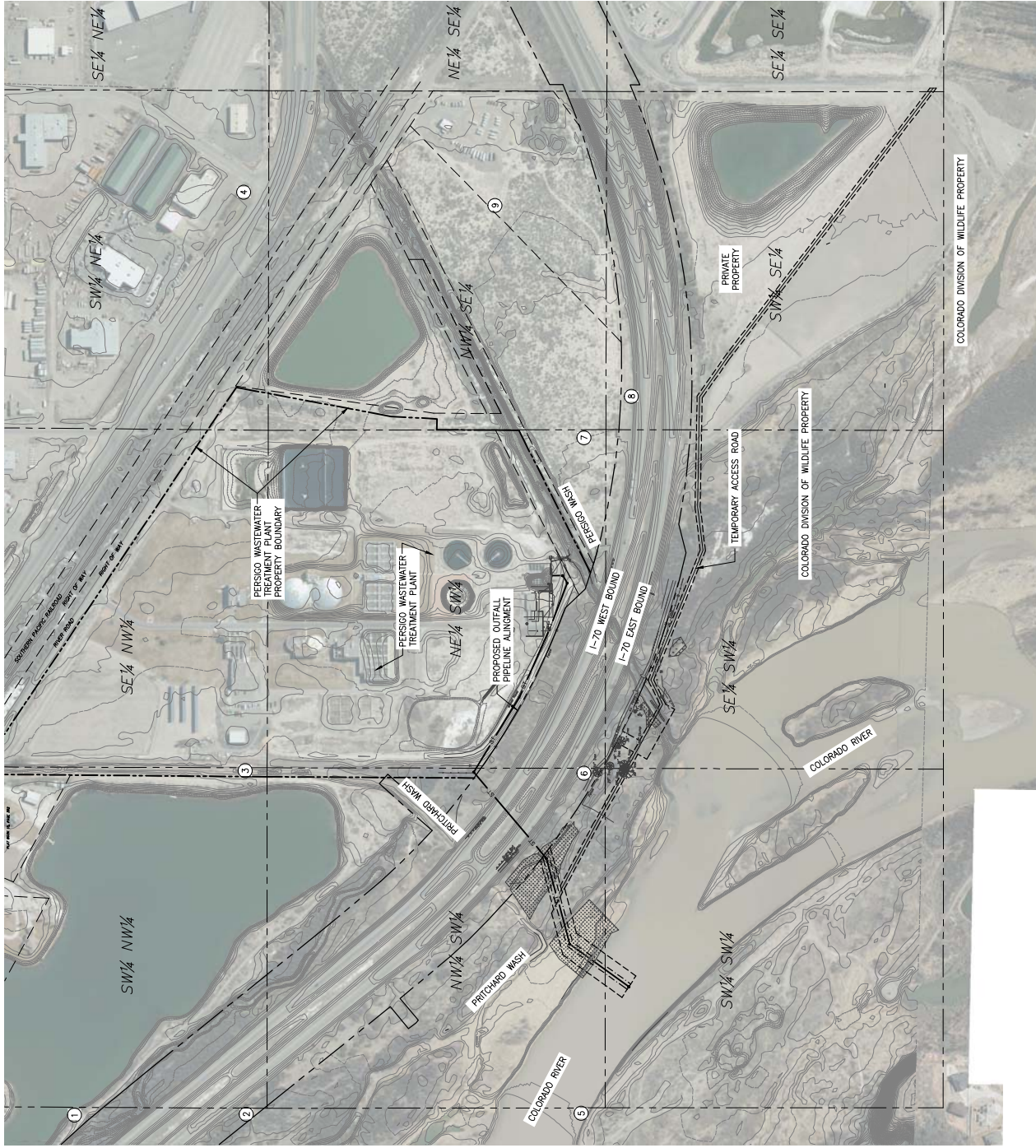
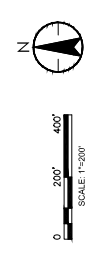
Client/Project: CITY OF GRAND JUNCTION / MESA COUNTY
 Permit-No: [Blank]
 PERSIGO WASTEWATER TREATMENT PLANT
 DIFFUSER OUTFALL IMPROVEMENTS
 OVERALL SITE PLAN AND
 PROJECT CONTROL MAP



| | |
|----------------------------|--|
| Project Number: 2020030505 | Revision: [Blank] |
| Sheet: [Blank] | Scale: 1"=200' |
| City: GRAND JUNCTION, CO | Drawing No: C1100 |
| Date: 11/15/2023 | Project Name: PERSIGO WASTEWATER TREATMENT PLANT |

| PROJECT CONTROL POINTS | | |
|------------------------|-----------|-----------|
| POINT NUMBER | NORTHING | EASTING |
| 1 | 53334.796 | 63048.300 |
| 2 | 53662.232 | 63046.578 |
| 3 | 53661.956 | 64376.875 |
| 4 | 53654.444 | 67022.782 |
| 5 | 51341.391 | 63048.302 |
| 6 | 51341.191 | 64374.572 |
| 7 | 51338.656 | 66688.425 |
| 8 | 51330.876 | 65455.710 |
| 9 | 51471.376 | 67025.650 |

- LEGEND**
- SECTION LINE
 - EXIST PROPERTY/EASEMENT LINE
 - PERSIGO WWTP PROPERTY LINE
 - I-70 RIGHT-OF-WAY
 - TEMPORARY EASEMENT
 - PERMANENT EASEMENT



| Region | By | Approved |
|--------|----|----------|
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|----------------|------------|
| Project Number | 2023030505 |
| Revision | Sheet |
| Scale | AS SHOWN |
| Drawing No. | C104 |
| Date | 11/20/23 |
| Drawn by | JL/MS |
| Checked by | |
| Approved by | |

[June 2016]

| Species and Status | Habitat | Area of Influence/Project Site | Status |
|---|---------|---|--------|
| Colorado pikeminnow (<i>Catostomus commersoni</i>) Endangered | FISH | Colorado River, downstream from Rifle, Colorado. | Yes |
| Brown darter (<i>Percina funebris</i>) Endangered | | Colorado River, downstream from Rifle, Colorado. | Yes |
| Longnose dace (<i>Leuciscus chalcoides</i>) Endangered | | Lower Colorado River, primarily Grand Valley and to the west. | Yes |
| Humpback chub (<i>Acyrtosoma maculatum</i>) Endangered | | Lower Colorado River, primarily Grand Valley and to the west. | Yes |
| Greenback cutthroat trout* (<i>Oncorhynchus clarkii</i>) Threatened | | Cold water streams, Grand Mesa area including Cadez Creek on the north side of Flatmeat Mesa. | No |

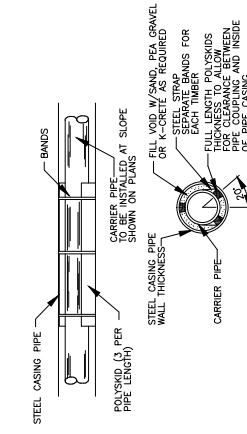
* These species were considered but dropped from further detailed analysis because they were not detected during surveys conducted for this project and are not known to occur within the project vicinity and/or would not be affected by project development.

4. If YES to any of the above items, are any permits required or additional actions needed (e.g., etc.)
404 permit has been approved. JW.2016.0077

[June 2016]

- Flows in the Colorado River and Perigo Wash will not be impeded and low flows will be maintained during project construction. A soil collar dam would be installed in the Colorado River to direct flows away from the construction area. To maintain low flows through Perigo Wash while the temporary access road is in use, a 5' CMP will be installed into the wash and the road crossing constructed above.
- All efforts to minimize restriction of water from the installation and removal of the collar will be documented in the project's construction report.
- The pre-construction report, condition, capacity, and location of the Colorado River or Perigo Wash will not be altered by the project.
- Site slopes of Perigo Wash will be graded to match the existing slopes upon removal of the 5' CMP.

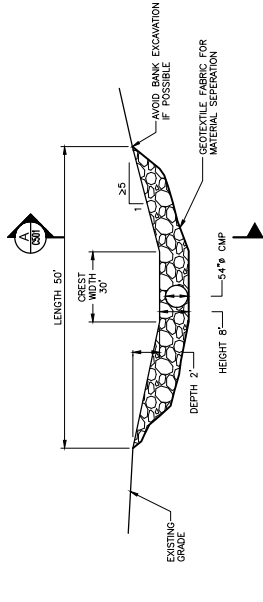
| Revision | | Issued | |
|----------|---------|--------|---------|
| By | DATE | By | DATE |
| AP02 | 7/15/20 | AP02 | 7/15/20 |
| CH | 7/15/20 | CH | 7/15/20 |
| SM | 7/15/20 | SM | 7/15/20 |
| AP02 | 7/15/20 | AP02 | 7/15/20 |



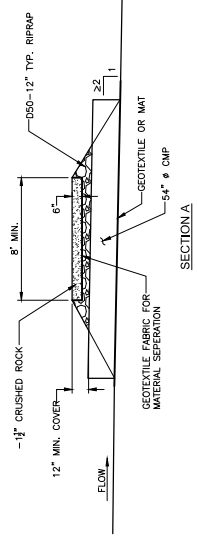
| STEEL CASING | CARRIER PIPE | STEEL MIN. I.D. DIA. | STEEL MIN. O.D. DIA. | HOPE WALL THICKNESS |
|--------------|--------------|----------------------|----------------------|---------------------|
| 60" | 54" | | | 0.75" |

- NOTES:
1. FINAL BORING DETAILS SHALL BE AS REQUIRED FROM GDOT.
 2. APPROVED WORK PERMITS SHALL BE OBTAINED PRIOR TO COMMENCING WORK.
 3. ALL PIPE JOINTS WITHIN THE PIPE CASING SHALL BE RESTRAINED PIPE JOINTS.

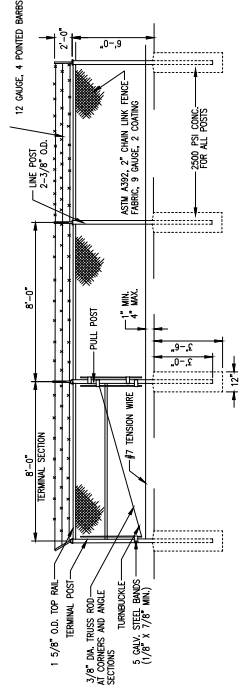
2 DETAIL
 INSTALLING PIPE INSTALLATION
 N.T.S.



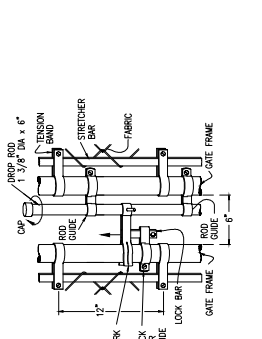
CULVERT CROSSING SECTION



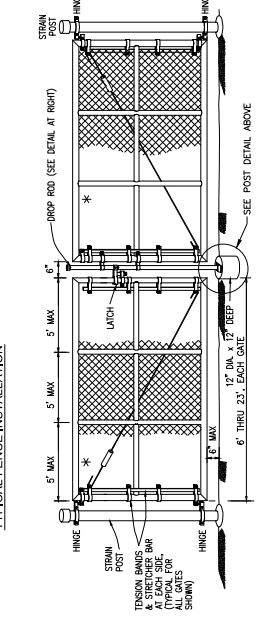
1 DETAIL
 STREAM CROSSING (TSC)
 SEE DWG. C-01
 N.T.S.



TYPICAL FENCE INSTALLATION



TYPICAL DROP ROD ASSEMBLY



TYPICAL CHAIN LINK FENCE

3 DETAIL
 CHAIN LINK FENCE
 N.T.S.



| | |
|-----------------|------------|
| Project Number: | 2020030005 |
| Revision: | Sheet |
| Date: | 08/04/20 |
| Drawn By: | AP02 |
| Checked By: | CH |
| Approved By: | SM |

