SOUTH PLATTE

[Image 12x11 to 716x545]

[43x69]Unit Information

Print Date: 1612 SPECHT POINT ROAD, SUITE 105
(970) 484-7477 / info@f-w.com
FORT COLLINS, COLORADO  80525

GROUP
Engineers | Architects | Surveyors | Scientists

UTILITIES
UNDERGROUND MEMBER
(NOT INCLUDING THE DAY
OF NOTIFICATION) IN
CALL 3 BUSINESS DAYS
THE MARKING OF
ADVANCE BEFORE YOU DIG,
CALL UTILITY NOTIFICATION
www.f-w.com
FORT COLLINS, COLORADO 80525

G0 COVER SHEET 01814793.00.dwg
N.T.S.
TABULATION OF LENGTH AND DESIGN DATA

MAXIMUM DESIGN SPEED
MINIMUM S.S.D. VERTICAL
MAXIMUM GRADE
MINIMUM RADIUS OF CURVE

PROJECT GROSS
BEGIN PROJECT
CONSTRUCTION CLEAR ZONE
CLEAR ZONE DISTANCE (RADIUS)
CLEAR ZONE DISTANCE (TANGENT)
% TRUCKS
CURRENT TRAFFIC COUNTS
20 YEAR PROJECTED COUNTS

TOTAL (LF)
WCR 39
STATION
1+56.14
0.38
2015.64
WCR 39
10'
150
N/A
N/A
370
200'
45
4.94%

Date:
PHOTO FROM
GOOGLE EARTH

Sheet Revisions
Contractor: Weld County Public Works Department

As Constructed
No Revisions:
Resident Engineer:

Revised: WENDY GORE
Project Engineer:

Comments: Void:

Comments: Project Started: Accepted:

Date: JUNE 17, 2019

Sheet Number 1.0

TABULATION OF LENGTH AND DESIGN DATA
ROADWAY
PROJECT GROSS LENGTH (MILES)
0.36

DESIGN DATA
WCR 36

MEMBERSHIP OF CURVE
MAXIMUM RADIUS
MINIMUM S.S.D. HORIZONTAL
MINIMUM S.S.D. VERTICAL
MAXIMUM DESIGN SPEED
CURRENT TRAFFIC COUNTS
30 YEAR PROJECTED COUNTS
9 TRUCKS
CLEAN ZONE DISTANCE (TANGENT)
X
CLEAN ZONE DISTANCE (RADIUS)
X
CONSTRUCTION CLEAR ZONE
N/A

WELD COUNTY, STATE OF COLORADO
HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED
WELD COUNTY ROAD 39
WELD COUNTY

PHOTO FROM GOOGLE EARTH

DATE: JUNE 17, 2019

WCR 85
NEG W 150’
EVANS, CO.
SOUTH PLATTE RIVER
WCR 52
PROJECT LOCATION
WCR 39
STA 156.14
BEGIN PROJECT
WCR 50.5
PROJECT LOCATION
WCR 39
STA 21+83
END PROJECT

SCALE: 1"=2000'

Revised:
No Revisions:
Void:

SCALE: 1*=2000'

Sheet List Table
Sheet Number
Sheet Title
0.3
CROSS SECTIONS STA 27+51.490
0.4
CROSS SECTIONS STA 27+51.490
0.4
CROSS SECTIONS STA 27+52.090
0.4
CROSS SECTIONS STA 27+52.090
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0.4
CROSS SECTIONS STA 27+52.090
0.4
CROSS SECTIONS STA 27+52.090
1) ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE 2017 CDOT “STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION” AND 2012, UPDATED DECEMBER 2018 /M & S STANDARDS, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. IF ANY SPECIFICATION CONFLICTS WITH ANOTHER SPECIFICATION, THE MOST STRINGENT SHALL APPLY AS DETERMINED BY WELD COUNTY.

2) THE CONTRACTOR SHALL HAVE, ON-SITE AT ALL TIMES, ONE (1) COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHOERING, TRAFFIC CONTROL, AND SECURITY; REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING.

4) PROTECT ALL SURVEY MONUMENTS OUTSIDE OF THE CONSTRUCTION LIMITS FROM DAMAGE. DAMAGED MONUMENTS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXTRA COST TO THE PROJECT.

5) THE CONTRACTOR SHALL MAINTAIN ACCESS TO AFFECTED PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE PROJECT.

6) CONSTRUCTION CONTRACTOR AGREES IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL, CDOT, AND WELD COUNTY HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL, CDOT OR WELD COUNTY.

7) THE CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE PERMANENT R.O.W., TEMPORARY CONSTRUCTION EASEMENTS, AND THE STAGING AREA INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. WORK LIMITS THAT RESULT IN DISTURBANCE GREATER THAN 1 ACRE WILL REQUIRE THE CONTRACTOR TO OBTAIN PERMITTING AND NPDES CONFORMANCE AT NO ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR SHALL KEEP EQUIPMENT AND MATERIALS WITHIN THESE ESTABLISHED LIMITS.

8) WASTE MATERIALS GENERATED BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO OBTAIN A DISPOSAL SITE FOR ALL UNSUBS MINERAL MATERIALS. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL LAWS WHEN DISPOSING OF MATERIALS.

9) CONTRACTOR IS RESPONSIBLE FOR ACQUIRING A RIGHT-OF-WAY PERMIT FROM WELD COUNTY, DEWATERING AND A DEMOLITION PERMIT FROM CDPHE.

10) THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH CHAPTER 6 OF THE MUTCD AND CDOT STANDARDS FOR TRAFFIC CONTROL S-630-1, TO WELD COUNTY FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES. ALLOW A MINIMUM OF 3 WEEKS TO OBTAIN A RIGHT-OF-WAY PERMIT.

11) DETOUR SIGNING, BARRICADES AND CONSTRUCTION SIGNING SHALL BE FURNISHED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

12) EXISTING ROADWAY SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OR REPLACED AS APPROPRIATE. THIS WORK WILL BE MEASURED AND PAID FOR WITH ITEM NO. 202, REMOVAL OF GROUND SIGN AND 614, SIGN PANEL (CLASS 1) AND 614, STEEL SIGN POST (2X2 INCH TUBING). ANY REMOVED SIGNS SHALL REMAIN THE PROPERTY OF WELD COUNTY.

13) IT IS ESTIMATED THAT REMOVAL OF 2 GROUND SIGNS AND RESET OF 1 GROUND SIGN WILL BE REQUIRED WITHIN THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER.

14) FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
   a. TACKCOAT DILUTED EMULSIFIED ASPHALT (SLOW-SETTING) @ 0.10 GALLONS PER SQUARE YARD (DILUTED)
   b. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE (1) PART EMULSIFIED ASPHALT AND ONE (1) PART WATER. THIS WILL NOT BE PAID FOR SEPARATELY AND IS INCLUDED IN THE COST FOR ITEM 403, HOT MIX ASPHALT.
   c. HOT MIX ASPHALT @ 147 POUNDS PER CUBIC FOOT
   d. AGGREGATE BASE COURSE @ 135 POUNDS PER CUBIC FOOT
   e. MULCH TACKIFIER @ 100 POUNDS PER ACRE

15) ANY LAYER OF ASPHALT PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE THE SUCCESSING LAYER IS PLACED. A TACK COAT IS REQUIRED PRIOR TO THE PLACEMENT OF EACH LIFT OF HMA. ROADWAY TO BE SWEEP CLEAN PRIOR TO THE APPLICATION OF THE TACK COAT.

16) WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE. USING A SAW OR OTHER METHOD AS APPROVED, TO CREATE A CLEAN CONSTRUCTION T-JOINT. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAINT THE EDGE WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. THE RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. CONTRACTOR SHALL MILL EXISTING WCR 52 TO A DEPTH OF WCR 30 HMA TOP COURSE. THE MILLING ON WCR 52 SHALL BE A MINIMUM OF 2 FEET WIDE OR A GREATER WIDTH TO PUT THE NORTH EDGE OF MILLING OUTSIDE THE WHEEL PATH OF THE EAST BOUND LANE. A TACK COAT SHALL BE APPLIED TO ALL EXISTING ASPHALT WITH WHICH THE NEW WCR 39 WILL INTERACT.

17) ALL EMBANKMENT MATERIAL SHALL CONSIST OF MATERIAL WHICH IS A NON-EXPANSIVE, GRANULAR SOIL. EMBANKMENT MATERIAL SHALL HAVE A MINIMUM “R” VALUE OF 40. THE CONTRACTOR SHALL FURNISH EVIDENCE THAT THE EMBANKMENT MATERIAL IS FROM THE SITE OR OTHER SOURCES, FOR USE IN THE ROADWAY EMBANKMENT, MEETS THE REQUIREMENTS AND SHALL PAY FOR SUCH TESTS AS MAY BE REQUIRED TO SHOW COMPLIANCE.

18) AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFICIENTLY WATED SO AS TO MINIMIZE WIND BLOWN SEDIMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN AND REQUIRED IN THE RELEVANT PERMITS ACQUIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

19) WATER SHALL BE USED AS A DUST PALLIATIVE AS DIRECTED BY THE ENGINEER. ASSUME FOUR (4) DAILY WATERINGS FOR THE DURATION OF THE PROJECT. LOCATIONS SHALL BE AS DIRECTED. COST FOR DUST PALLIATIVE SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK.

20) WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.

21) ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY WATERS OF THE UNITED STATES.

22) ALL SOIL Stockpiles SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER EROSION CONTROL.

23) THE CONTRACTOR SHALL AT ALL TIMES TAKE WHAT MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

24) CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMPLEMENT WHAT MEASURES ARE DETERMINED NECESSARY AS DIRECTED BY WELD COUNTY.

25) A VEHICLE TRACKING CONTROL PAD SHALL BE INSTALLED WHEN NEEDED FOR CONSTRUCTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING ROADWAYS.
26) A STATE CONSTRUCTION Dewatering Wastewater Discharge Permit is required for water that is discharged into a stream. Storm sewer, channel, irrigation ditch or any waters of the United States. The contractor shall comply with all terms and conditions of the Colorado Permit for Storm Water Discharge (Contact Colorado Department of Public Health and Environment, Water Quality Control Division, (303) 629-5995, the Storm Water Management Plan, and the Erosion Control Plan. All erosion control measures shall be maintained in good repair by the contractor, until such time as the entire disturbed areas are stabilized with hard surface or landscaping.

27) Seeding and mulching will be required for all disturbed areas not surfaced, including, but not limited to roadway embankment, site grading and channel shaping. Seed and mulch shall be furnished and placed by the contractor.

28) The contractor shall maintain drainage during construction. This work will not be paid for separately but will constitute a subsidiary obligation of the contractor under other contract items. 603-02545. Dewatering inside Cofferdam will not be paid for separately, but as part of this bid item.

29) Deliverables are required at approach corners of culvert. It is estimated that 10 deliverables (Type 3) will be required, using yellow Carsonite posts.

30) It is estimated that 2 concrete washout structures shall be required on the project. Washout areas shall be checked by the erosion control supervisor and maintained as required. Baby-pools and wooden boxes lined with heavy duty plastic are not allowed. After use, structures must be removed from the project site.

31) For concrete to be placed on the project, the sulphate exposure level is ADI-318-11 Class 50. (CDOT Class 6) ASTM C150 Type I Portland cement shall be specified for all project concrete.

32) Pavement smoothness shall be mean roughness index (MRI) category 1.

EARTHWORK NOTES:

1) Topsoil will be tracked by the cubic yard excavated, stockpiled, and redistributed. This item will be paid through the "STOCKPILE TOPSOIL & TOPSOIL REDISTRIBUTE" line items. Payment will be as measured in the field. Underdrains will credit to weld county and overdrains will be paid at the contract unit price.

2) Topsoil will be required for final roadway sideslopes and backsoles and graded areas not covered with riprap. The minimum thickness of topsoil shall be 4 inches.

3) Unsuitable material encountered shall be excavated and filled back in using approved materials. Cost of unsuitable material excavation shall include any geo-fabric required to stabilize the area. Additional excavation shall be tracked by the amount of material removed. All other work required to complete the backfilling, compaction, and stabilization shall be subsidiary to the unsuitable material line item. Payment will be as measured in the field. Underdrains will credit weld county and overdrains will be paid at the contract unit price.

FENCING NOTES:

1) All fencing removals and installations within or along the edge of wetland areas shall be completed by hand work.

UTILITY NOTES:

1) The location of utility facilities as shown on the plan sheets, and herein described, were obtained from the best available information.

2) The contractor is responsible for making his own determination as to the type and location of above-ground and underground utilities as may be necessary to avoid damage thereto.

3) The contractor shall comply with article 1.5 of Title 9, CRS (excavation requirements). When excavation or grading is planned in the area of underground utility facilities, the contractor shall notify all affected utilities at least three (3) business days prior to commencing such operations. Contractors of the utility notification center of Colorado (UNCC) to have locations of UNCC registered lines marked by member companies. Contact the UNCC at 811 at least three (3) days (not including the day of notification) prior to any excavation or other earthwork. Contractor shall contact union Pacific railroad's call before you dig (1-800-336-9193) for all utility locates within the union Pacific railroad property limits. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning excavation or grading.

4) The contractor shall cooperate and coordinate all work with any affected utility company or agency. Pot holing of utilities shall be the responsibility of the contractor and shall be paid for under line item 203 (POTHOLING SPECIAL). Contractor shall coordinate all utility relocation work required by the project with the respective utility companies and their contractors.

5) The contractor shall have the responsibility of protecting live utilities during their construction operations and shall hold weld county harmless for any and all damages to live utilities arising from their construction operations.

6) All costs incidental to the foregoing requirements will not be paid for separately but shall be included in the work.

7) Within union Pacific railroad property, utilities will be relocated by contractor or be protected in place in coordination with the railroad. Utility relocations within the weld county right of way will be relocated by utility owners at utility owner's expense.

8) The subsurface utilities shown on the subsurface utility investigation were identified using appropriate industry standard detection methodologies in accordance with the American society of civil engineers (ASCE) standard for collection of existing subsurface utility data and quality levels and definitions per CI/ASCE Standard No. 38-02.

9) Quality level "D" - QL-D - depict according to utility record information and in-field visual inspection. No electronic designating information was obtained.

10) Quality level "C" - QL-C - existing utility structures have been field located and surveyed to assist in the depicting of the utilities shown on the records. No electronic designating information was obtained.

11) Quality levels "B" - QL-B - Information was obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of the subsurface utilities. QL-B data should be reproducible by surface geophysics at any point of their depiction.

12) Quality level "A" - QL-A - information was obtained by actual exposure (or verification of previously exposed or surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Minimally intrusive excavation equipment is typically used to minimize the potential for utility damage.

13) Utilities are depicted on these plans in accordance with their achieved "Quality Levels" as defined in the American society of civil engineers document ASCE 38-02 "Standard guideline for the collection and depiction of existing subsurface utility data".

14) Reliance upon this data for risk management purposes during bidding does not relieve the excavator or utility owner from following all applicable utility damage prevention statutes, policies, and/or procedures during excavation. It is important that the contractor investigates and understands the scope of work between the project owner and their engineer regarding the scope and limits of the utility investigations leading to these utility depictions.

15) All utilities are quality level B unless otherwise noted. An attempt to achieve QL-B data was made for all utilities within the project limits except for service lines less than 1.25" in diameter.
26) UTILITY CONTACTS:

<table>
<thead>
<tr>
<th>UTILITY OWNER</th>
<th>UTILITY TYPE</th>
<th>CONTACT</th>
<th>PHONE</th>
<th>EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vivax-Metrotech</td>
<td>Fiber Optic</td>
<td>ULT</td>
<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
</tr>
<tr>
<td>USA, Inc.</td>
<td>Fiber Optic</td>
<td>ULT</td>
<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
</tr>
<tr>
<td>SRC Energy</td>
<td>Natural Gas</td>
<td>Reddick</td>
<td>(303) 281-5555</td>
<td><a href="mailto:reddick@reddick.com">reddick@reddick.com</a></td>
</tr>
<tr>
<td>Total Protection</td>
<td>Fiber Optic</td>
<td>ULT</td>
<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
</tr>
<tr>
<td>Mag Bandwidth</td>
<td>Fiber Optic</td>
<td>Ultimate</td>
<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
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</tr>
<tr>
<td>Telco Networks</td>
<td>Fiber Optic</td>
<td>Clay Abdelnour</td>
<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
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<td>(303) 270-7822</td>
<td><a href="mailto:jim@vivaxmetrotech.com">jim@vivaxmetrotech.com</a></td>
</tr>
</tbody>
</table>

1. STA 7+00 - STA 9+00, for the two east-most existing fiber optic utilities:

   Prior to proceeding with any earthwork grading activities between STA 7+00 and STA 9+00, the Contractor shall contact Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to coordinate a standby representative of CenturyLink to be on site during these activities.

2. Culvert Area, for the two east-most existing fiber optic utilities:

   Prior to proceeding with installation of the cofferdam and/or any earthwork grading activities related to the culvert installation, the Contractor shall contact Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to coordinate a standby representative of CenturyLink to be on site during these activities.

3. Prior to proceeding with installation of the 12" RCP under proposed WCR 50.5 the Contractor shall contact CenturyLink and Mag Energy to coordinate standby representatives to be on site during these activities.

RAILROAD REQUIREMENTS:

1) ALL WORK PERFORMED WITHIN THE RAILROAD R.O.W. SHALL BE PERFORMED IN ACCORDANCE WITH THE AGREEMENT BETWEEN THE UNION PACIFIC RAILROAD COMPANY AND WELD COUNTY. APPPLICABLE PORTIONS OF THIS AGREEMENT ARE AVAILABLE IN THE PROJECT SPECIFICATIONS AND BY REQUEST TO WELD COUNTY. ALL COORDINATION REQUIRED FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE WORK.

2) ALL INSURANCE COVERAGES REQUIRED BY WELD COUNTY AND UNION PACIFIC RAILROAD COMPANY SHALL BE OBTAINED BY CONTRACTOR PRIOR TO ENTRANCE TO RAILROAD RIGHT OF WAY, AND BEFORE CONSTRUCTION BEGINS. REQUIRED INSURANCE COVERAGE SHALL BE MAINTAINED BY CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL BEAR THE COST OF THE REQUIRED INSURANCE COVERAGE.

3) UNION PACIFIC RAILROAD CONTACT INFORMATION IS AS FOLLOWS:

<table>
<thead>
<tr>
<th>NAME</th>
<th>UNIVERSITY</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>KYLAN CRAWFORD</td>
<td>UNION PACIFIC RAILROAD COMPANY</td>
<td>1400 DOUGLAS STREET</td>
<td>OMAHA, NE 68179-1690</td>
<td>PHONE: 402-544-8536</td>
</tr>
<tr>
<td>GREGG LARSEN</td>
<td>UNION PACIFIC RAILROAD COMPANY</td>
<td>1400 DOUGLAS STREET</td>
<td>OMAHA, NE 68179-1690</td>
<td>PHONE: 402-544-8536</td>
</tr>
</tbody>
</table>
OIL & GAS ACCESS ROAD
TYPICAL SECTION
STA 13+25.44

NOTE: THE ACCESS ROAD SHALL BE ASPHALT TO THE R.O.W. ONLY. THEN COMPACTED ROAD BASE TO THE TCE LINE. THE REMAINING PORTION OF ROAD IS THE OIL AND GAS COMPANY'S RESPONSIBILITY TO BUILD.

1. THE FORESLOPES AND BACKSLOPES SHALL BE NO STEEPER THAN 3:1 WITH A PREFERENCE OF 4:1 - 6:1. REFER TO CROSS SECTIONS.
2. CONTRACTOR SHALL INSTALL TRM ON ALL SLOPES STEEPER THAN 4:1 IN EMBANKMENT AREAS.
3. CONTRACTOR SHALL INSTALL SRB ON ALL SLOPES 4:1 OR FLATTER IN EMBANKMENTS.
4. ** ALL SIDESLOPES SHALL BE SEEDED AND MULCHED.
5. SIGNING AND STRIPING PER PLAN SHEETS 2.10 & 2.11.

TYPICAL CROSS SECTION
STA 2+06.19 TO STA 15+50.25

TYPICAL CROSS SECTION
STA 15+50.25 TO STA 17+50.25
TYPICAL SUPER ELEVATION
R.O.W. VARIES
STA 17+50.25 TO STA 18+37.64
2.0%
15'
TRAVEL LANE
15'
TRAVEL LANE
1'
4'
30'
VARIES
VARIES
SHOULDER
SHOULDER
4:1
1'
4'
VARIES
VARIES
SHOULDER
SHOULDER
36'
2.0%
VARIES
5" HMA
ABC
(CLASS 6)
6" HMA
ABC
(CLASS 6)

ROAD SIDE DITCH STA 17+50.25 TO STA 18+17

TYPICAL CROSS SECTION
STA 17+50.25 TO STA 18+37.64

TYPICAL CROSS SECTION
STA 18+37.64 TO STA 19+12.64

TYPICAL CROSS SECTION
STA 19+12.64 TO STA 20+94.47

NOTES:
1. THE FORESLOPES AND BACKSLOPES SHALL BE NO STEEPER THAN 3:1 WITH A PREFERENCE OF 4:1 - 6:1. REFER TO CROSS SECTIONS.
2. CONTRACTOR SHALL INSTALL TRM ON ALL SLOPES STEEPER THAN 4:1 IN EMBANKMENT AREA.
3. CONTRACTOR SHALL INSTALL SRB ON ALL SLOPES 4:1 OR FLATTER IN EMBANKMENT AREAS.
4. ** ALL SIDESLOPES SHALL BE SEEDED AND MULCHED.
5. SIGNING AND STRIPING PER PLAN SHEETS 2.10 & 2.11.

SLOPE VARIES AROUND CULVERTS
TRANSITIONS 2.0% - 1.5% FROM STA. 18+37.64 TO STA. 19+12.64

SEE NOTE 2

** SEE NOTE 2

FIELD BOOK NO.:

WELD COUNTY COLORADO

PROJECT:

WCR 39 IMPROVEMENTS

DESCRIPTION:

DATE:

# ISSUE:

GROUP

www.f-w.com

Engineers | Architects | Surveyors | Scientists

1612 SPECHT POINT ROAD, SUITE 105
FORT COLLINS, COLORADO  80525
(970) 484-7477 / info@f-w.com
TYPICAL ROAD STRUCTURE SECTION

STA 2+06.19 to 9+25.00

(NOT TO SCALE)

NOTES:
1. OVERLAP OF GEOSYNTHETIC MATERIAL SHALL BE AT THE DIRECTION OF WELD COUNTY AND MEET MANUFACTURER SPECIFICATIONS.
2. THE SECTION SHOWN SHALL BE EXTENDED TO THE EAST RIGHT-OF-WAY (ROW) FOR THE ACCESS ROAD SHOWN AT STATION 13+25.44.
3. REFER TO SEPARATE ROCK TRANSITION PROFILE DETAIL FOR ROCK AND GEOSYNTHETIC MATERIAL TRANSITIONS IN THE HERCP CULVERT AREA.
4. THE CONTRACTOR SHALL REMOVE THE TOPSOIL AND DELETERIOUS MATERIAL AND PREPARE THE TOP 12 INCHES OF SUBGRADE AS SHOWN IN THE DETAIL AND DESCRIBED IN THE GEOTECH REPORT.

EXISTING GROUND (CUT)

6" Min. (REMOVE TOPSOIL AND DELETERIOUS MATERIAL)

MIN. R40 EMBANKMENT MATERIAL (VARIES 0 FEET IN CUT CONDITION TO 5 FEET IN FILL CONDITION)

TYPICAL ROAD STRUCTURE SECTION

STA 9+25 TO STA 21+71.78

(NOT TO SCALE)

NOTES:
1. OVERLAP OF GEOSYNTHETIC MATERIAL SHALL BE AT THE DIRECTION OF WELD COUNTY AND MEET MANUFACTURER SPECIFICATIONS.
2. THE SECTION SHOWN SHALL BE EXTENDED TO THE EAST RIGHT-OF-WAY (ROW) FOR THE ACCESS ROAD SHOWN AT STATION 13+25.44.
3. REFER TO SEPARATE ROCK TRANSITION PROFILE DETAIL FOR ROCK AND GEOSYNTHETIC MATERIAL TRANSITIONS IN THE HERCP CULVERT AREA.
4. THE CONTRACTOR SHALL REMOVE THE TOPSOIL AND DELETERIOUS MATERIAL AND PREPARE THE TOP 12 INCHES OF SUBGRADE AS SHOWN IN THE DETAIL AND DESCRIBED IN THE GEOTECH REPORT.

EXISTING GROUND (CUT)
6" Min. (REMOVE TOPSOIL AND DELETERIOUS MATERIAL)

MIN. R40 EMBANKMENT MATERIAL (VARIES 0 FEET IN CUT CONDITION TO 5 FEET IN FILL CONDITION)
ROCK TRANSITION PROFILE AT HERCP CULVERT
(NOT TO SCALE)

NOTES:

1. OVERLAP OF GEOSYNTHETIC MATERIAL SHALL BE AT THE DIRECTION OF WELD COUNTY AND MEET MANUFACTURER SPECIFICATIONS.

2. REFER TO HERCP CULVERT STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
POTHOLE TABLE (QL A)

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ALL UTILITIES DEPICTED AT QUALITY LEVEL B (QL B) EXCEPT, WHERE NOTED.
### SUMMARIES OF APPROXIMATE QUANTITIES

**FOR INFORMATIONAL PURPOSES ONLY**

The Contractor submitting a bid agrees to the quantities in the bid schedule for the work.

#### SUMMARY OF APPROXIMATE QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>ITEM CATEGORY</th>
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<th>QUANTITY</th>
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**DETAILED LIST OF QUANTITIES**

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**NOTES:**

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- The Contractor submitting a bid agrees to the quantities in the bid schedule for the work.
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* For Informational Purposes Only

The Contractor submitting a bid agrees to the quantities in the bid schedule for the work.
### Tabulation of Signs

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<th>REMOVE SIGN (EACH)</th>
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**Tabulation of Pavement Marking**

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<th>4-INCH DOUBLE YELLOW</th>
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<th>4-INCH BROKEN YELLOW</th>
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**Tabulation of Delineators**

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<th>DELINETER (EA)</th>
<th>ANCHOR (EA)</th>
<th>YELLOW CARBONITE POST LENGTH (FT)</th>
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*For informational purposes only*

The Contractor submitting a bid agrees to the quantities in the bid schedule for work.
**TABULATION OF ROADWAY QUANTITIES**

The Contractor submitting a bid agrees to the quantities in the bid schedule for the work.

**TABULATION OF EARTHWORK QUANTITIES (Table A)**

<table>
<thead>
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<th>LOCATION</th>
<th>STATION RANGE</th>
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**TABULATION OF EARTHWORK QUANTITIES (Table B)**

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**TABULATION OF EXTRA LAYER OF MIRAFI RS580I**

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**TABULATION OF RIPRAP QUANTITIES**

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**TABULATION OF MAINLINE CULVERT ANCILLARY QUANTITIES**

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Quantities within this tab may be replicated on Sheet 2.18.

**FOR INFORMATIONAL PURPOSES ONLY**

*This quantity has been accounted for within another Table.*
### Tabulation of Topsoil Removal

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### Tabulation of Unsuitable Material

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### Tabulation of Topsoil Redistribute

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### Tabulation of Steel Plates

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**For Informational Purposes Only**

The Contractor submitting a bid agrees to the quantities in the bid schedule for the work.
DEMOLITION NOTES:

1. COORDINATE ALL REMOVAL LIMITS WITH THE COUNTY INSPECTOR.
2. REMOVAL OF PIPE INCLUDES END SECTIONS.
3. SAW-CUTTING IS NOT PAID FOR SEPARATELY, AND SHALL BE INCLUDED WITHIN THE ASSOCIATED REMOVAL BID ITEM.
4. SEE UTILITY PLANS FOR ASSOCIATED REMOVALS AND RELOCATIONS TO BE COMPLETED BY OTHERS.
5. REMOVAL OF TREES (LESS THAN 24" Ø DBH), SHRUBS, AND OTHER VEGETATION TO BE PAID FOR WITHIN THE CLEARING AND GRUBBING BID ITEM.
6. REMOVAL OF DELINEATORS, RIP RAP, CONCRETE CHUNKS AND OTHER ITEMS FOR WHICH THERE IS NO SPECIFIC BID ITEM TO BE PAID FOR WITHIN THE CLEARING AND GRUBBING BID ITEM.

NOTE:
ANY DAMAGE TO THE WETLANDS WILL RESULT IN A $1000 FINE PER INCIDENT TO THE CONTRACTOR.
NOTE:
ANY DAMAGE TO THE
WETLANDS WILL RESULT IN A
$1000 FINE PER INCIDNET TO
THE CONTRACTOR.

STATE HIGHWAY 85

UNION PACIFIC RAILROAD

INSTALL 483 LF OF
CONSTRUCTION FENCING
AROUND WETLANDS PER
DETAIL SHEET 4.2 PRIOR
TO ANY REMOVALS OR
OTHER WORK. (TYP)

INSTALL 222 LF OF
CONSTRUCTION FENCING
AROUND WETLANDS PER
DETAIL SHEET 4.2 PRIOR
TO ANY REMOVALS OR
OTHER WORK. (TYP)

INSTALL 515 LF OF
CONSTRUCTION FENCING
AROUND WETLANDS PER
DETAIL SHEET 4.2 PRIOR
TO ANY REMOVALS OR
OTHER WORK. (TYP)

REMOVE 314 LF
OF FENCE

REMOVE 202 LF
FENCE

REMOVE 234 LF
FENCE

REMOVE AND
RELOCATE SIGN
(HORSEBACK
RIDING & 35 MPH
SPEED LIMIT)

PARTIAL DEPTH
SAWCUT AND REMOVAL
OF ASPHALT FOR
"T-JOINT" REFER TO
DETAIL ON SHEET 2.15.

TREE TO REMAIN
INSTALL 40 LF
CONSTRUCTION
FENCING AROUND
TREE PER DETAIL
SHEET 4.2.

REMOVE WOODEN FENCE
POST

WELD COUNTY ROAD 39 DEMOLITION PLAN

SCALE: 1"=100'

U.S. SURVEY FEET

PROJECT:
DATE:
PROJECT NO.

DESCRIPTION:

# ISSUE:

WELD COUNTY COLORADO
WCR 39
IMPROVEMENTS

05/20/19
0181479.00

06/17/19
06/17/19
FIELD BOOK NO.

www.f-w.com
Engineers | Architects | Surveyors | Scientists
1612 SPECHT POINT ROAD, SUITE 105
FORT COLLINS, COLORADO 80525
(970) 484-7477 / info@f-w.com

NOTE:
ANY DAMAGE TO THE
WETLANDS WILL RESULT IN A
$1000 FINE PER INCIDENT TO
THE CONTRACTOR.
NOTE:
ANY DAMAGES TO THE WETLANDS WILL RESULT IN A $1,000 FINE PER INCIDENT TO THE CONTRACTOR.

MITIGATION AREAS.
SEE WETLAND MITIGATION DESIGN AND PLAN PREPARED BY DARCY TIGLAS.

GRADING AND EROSION CONTROL

SLOPE TO CULVERT
SRB ALONG 4:1
$1000 FINE PER INCIDENT TO THE CONTRACTOR.
SIGNING NOTE

ALL SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SHALL CONFORM TO WELD COUNTY STANDARDS.

WARNING SIGN SPACING AND LOCATION ARE BASED ON TABLE 2C-4 OF THE MUTCD AND WHERE CONDITIONS WARRANT, ADJUSTMENTS HAVE BEEN MADE TO ACCOMODATE PROSPECTIVE FIELD CONDITIONS.

PAVEMENT STRIPING NOTE

ALL LONG-LINE PAVEMENT STRIPING SHALL BE EPOXY PAINT IN ACCORDANCE WITH SECTION 708.05 & APPLICATION IN ACCORDANCE WITH SECTION 627 OF COST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. PAVEMENT WORD AND SYMBOL MARKINGS SHALL BE IN ACCORDANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION, SYMBOLS.

ARROWS, STOP BARS, & CROSS WALK BARS SHALL BE INSTALLED USING PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL IN ACCORDANCE WITH CDOT SPECIFICATIONS SECTION 713.13 (MATERIAL) AND SECTION 627.07 (APPLICATION).

ALL STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SHALL CONFORM TO WELD COUNTY & CDOT STANDARDS.

DO NOT EXTEND LANE OR CENTER LINES THROUGH INTERSECTIONS,

FINAL LOCATIONS OF SIGNS TO BE DETERMINED BY WELD COUNTY.

STRIPING & SIGNAGE CONTRACTOR TO NOTIFY WELD COUNTY PRIOR TO INSTALLATION OF SIGNS AND PAVEMENT MARKINGS.

Delineates Sign Number
See Sheet 1.12 for Details

SCALE: 1"=60' U.S. SURVEY FEET

SIGNING AND STRIPING PLAN

Famsworth GROUP
1413 SOUTH POINT ROAD, STE 105
FORT COLLINS, COLORADO 80525
(970) 484-7477 / info@f-w.com
TEMPORARY TRAFFIC CONTROL NOTES

1. The typical details depicted on the standard sheets and in the MUTCD, reflect the minimum requirements.

2. The Contractor must submit to the Project Engineer, in writing, proposed revisions to the Traffic Control Plan for review and approval by the County Engineer or his/her designee three (3) weeks minimum prior to the planned implementation of such proposed revisions, except for changes that alter the scope of the Traffic Control Plan. Such changes in scope must be submitted to the Project Engineer for approval by the County Engineer or his/her designee thirty (30) working days prior to implementation of such revisions.

3. The locations of the signs shown on the work zone traffic control plans and details may be adjusted based on sight distance and other considerations. The final locations of signs are subject to approval by the County Engineer.

4. Any existing signs, including overhead signs, which conflict with the temporary traffic control sign layout shall be removed or repositioned, as approved by the County Engineer. Any appropriate existing signs shall be restored to their original condition and/or location unless otherwise replaced in this Contract.

5. Signs at or near intersections shall be placed so that they do not obstruct a motorist’s line of sight.

6. All warning and regulatory signs shall be posted on both sides of multi-lane divided highways, multi-lane ramps, and one-way streets. In cases where lane restrictions reduce the travel lane to one lane, signs shall be posted on the right side of the active travel lane, unless otherwise authorized by the Engineer.

7. The dimensions of work zone traffic control signs are described in the MUTCD. Any changes to the dimensions shall be approved by the County Engineer or by his/her designee.

8. Property owners whose driveways will be made inaccessible shall be notified by the Contractor at least 48 hours prior to restricting use of the driveway. Where possible, all channelizing and guiding devices are to be placed so as to provide a minimum 2’ lateral clearance to the traveled way.

9. The Contractor must submit to the Project Engineer, in writing, proposed revisions to the Traffic Control Plan for approval by the County Engineer or his/her designee three (3) weeks minimum prior to the planned implementation of such proposed revisions, except for changes that alter the scope of the Traffic Control Plan. Such changes in scope must be submitted to the Project Engineer for approval by the County Engineer or his/her designee thirty (30) working days prior to implementation of such revisions.

10. All warning and regulatory signs shall be posted on both sides of multi-lane divided highways, multi-lane ramps, and one-way streets. In cases where lane restrictions reduce the travel lane to one lane, signs shall be posted on the right side of the active travel lane, unless otherwise authorized by the Engineer.

11. The dimensions of work zone traffic control signs are described in the MUTCD. Any changes to the dimensions shall be approved by the County Engineer or by his/her designee.

12. Property owners whose driveways will be made inaccessible shall be notified by the Contractor at least 48 hours prior to restricting use of the driveway. Where possible, all channelizing and guiding devices are to be placed so as to provide a minimum 2’ lateral clearance to the traveled way.

Legend:
- Direction of travel
- Work space
- Channelizing device
- Sign
- Flagger
- Changeable message sign

NOTE: TO BE USED WHEN NO INTERSECTION WORK OF WCR 39 AND WCR 52 IS END PERFORMED, WORKED TYPICAL APPLICATION 6 IN THE 2009 MUTCD MANUAL.
This Plan to be used during intersection work and is based on 2009 MUTCD 'Typical Application 13'.

CONSTRUCTION TRAFFIC CONTROL PLAN
SCALE: 1"=200'
U.S. SURVEY FEET
This Plan to be used when no intersection work is being performed and is based on 2009 MUTCD 'Typical Application 6 (Modified)."
60" CULVERT INV. = 4650.67

60" CULVERT INV. = 4650.668

60" CULVERT INV. = 4650.761

60" CULVERT INV. = 4650.35

60" CULVERT INV. = 4650.06

HEADWALL TOP ELEV. = 4666.12

HEADWALL TOP ELEV. = 4650.76

HEADWALL TOP ELEV. = 4650.35

HEADWALL TOP ELEV. = 4650.06

3-112 LF 43"x68" HERCP CULVERTS

3'-43"x68" HERCP CULVERTS

SOIL RIP RAP

13'x80' D = 18" TYPE H WITH A 36" DEPTH

FLOODPLAIN ELEV. = 4652.87

100-YR SURFACE ELEV. = 4655.26

112 LF @ S=0.0%

3 - 43"x68" HERCP CULVERTS

PROPOSED WCR 39

60" CULVERT INV. = 4650.35

HEADWALL TOP ELEV. = 4650.67

HEADWALL TOP ELEV. = 4650.76

60" CULVERT INV. = 4650.67

INV. = 4647.15

SAN BK

RIM = 4653.3

INV. = 4650.76
NOTE: WHERE PAVEMENT IS TO ADJUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE. USING A SAW OR OTHER METHOD AS APPROVED, TO CREATE A CLEAN CONSTRUCTION T-JOINT. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAINT THE EDGE WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. THE RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. CONTRACTOR SHALL MILL EXISTING WCR 52 TO A DEPTH OF WCR 39 HMA TOP COURSE. THE MILLING ON WCR 52 SHALL BE A MINIMUM OF 2 FEET WIDE OR A GREATER WIDTH TO PUT THE NORTH EDGE OF MILLING OUTSIDE THE WHEEL PATH OF THE EAST BOUND LANE. A TACK COAT SHALL BE APPLIED TO ALL EXISTING ASPHALT WITH WHICH THE NEW WCR 39 WILL INTERACT.

WHERE PAVEMENT IS TO ADJUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE. USING A SAW OR OTHER METHOD AS APPROVED, TO CREATE A CLEAN CONSTRUCTION T-JOINT. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAINT THE EDGE WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. THE RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. CONTRACTOR SHALL MILL EXISTING WCR 52 TO A DEPTH OF WCR 39 HMA TOP COURSE. THE MILLING ON WCR 52 SHALL BE A MINIMUM OF 2 FEET WIDE OR A GREATER WIDTH TO PUT THE NORTH EDGE OF MILLING OUTSIDE THE WHEEL PATH OF THE EAST BOUND LANE. A TACK COAT SHALL BE APPLIED TO ALL EXISTING ASPHALT WITH WHICH THE NEW WCR 39 WILL INTERACT.

WHERE PAVEMENT IS TO ADJUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE. USING A SAW OR OTHER METHOD AS APPROVED, TO CREATE A CLEAN CONSTRUCTION T-JOINT. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAINT THE EDGE WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. THE RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. CONTRACTOR SHALL MILL EXISTING WCR 52 TO A DEPTH OF WCR 39 HMA TOP COURSE. THE MILLING ON WCR 52 SHALL BE A MINIMUM OF 2 FEET WIDE OR A GREATER WIDTH TO PUT THE NORTH EDGE OF MILLING OUTSIDE THE WHEEL PATH OF THE EAST BOUND LANE. A TACK COAT SHALL BE APPLIED TO ALL EXISTING ASPHALT WITH WHICH THE NEW WCR 39 WILL INTERACT.

NOTE: WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE. USING A SAW OR OTHER METHOD AS APPROVED, TO CREATE A CLEAN CONSTRUCTION T-JOINT. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAINT THE EDGE WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. THE RATE OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. CONTRACTOR SHALL MILL EXISTING WCR 52 TO A DEPTH OF WCR 39 HMA TOP COURSE. THE MILLING ON WCR 52 SHALL BE A MINIMUM OF 2 FEET WIDE OR A GREATER WIDTH TO PUT THE NORTH EDGE OF MILLING OUTSIDE THE WHEEL PATH OF THE EAST BOUND LANE. A TACK COAT SHALL BE APPLIED TO ALL EXISTING ASPHALT WITH WHICH THE NEW WCR 39 WILL INTERACT.
INSTALL 5-STRAND BARBED WIRE FENCE SEE DETAIL SHEET 4.3 - 65 LF

END CONSTRUCTION OF OIL & GAS ACCESS AT T.C.E.

END ASPHALT
N 374602.13
E 224669.19
ELEV. = 4655.20
SEE SHEET 2.17 FOR CULVERT DESIGN

RIGHT OF ENTRY AREA

INSTALL 5-STRAND BARBED WIRE FENCE SEE DETAIL SHEET 4.3 - 65 LF

GRADE BREAK
CULVERT AT WCR 50.5 PLAN

SCALE: 1"=20'

CULVERT AT WCR 50.5 PROFILE

SCALE: 1"=20' HZ. 1"=2' VT.

CONTRACTOR TO PROVIDE MMIN. OF 1 FT. OF TEMPORARY MOUNDING OVER CULVERT DURING CONSTRUCTION.

EXISTING GRADE

PROPOSED GRADE

EXISTING 200 PAIR PHONE CABLE TO BE LOWERED IN PLACE BY UTILITY OWNER

CAUTION EXISTING 2" HIGH PRESSURE GAS (PROTECT IN PLACE)

84 LF ~12" RCP (STRENGTH CLASS 4) @ S=0.49% W/2 - FES

STA 1+00 PIPE ELEV = 4672.84

STA 1+06 PIPE ELEV = 4672.43

WCR 39 IMPROVEMENTS

PROJECT:

DATE:

PROJECT NO.:

DESCRIPTION:

DATE:

# ISSUE:

www.f-w.com

Engineers | Architects | Surveyors | Scientists

1612 SPECHT POINT ROAD, SUITE 105
FORT COLLINS, COLORADO  80525
(970) 484-7477 / info@f-w.com

REVIEWED:

DESIGNED:

DRAWN:

SHEET TITLE:

SHEET NUMBER:

FIELD BOOK NO.

CULVERT AT WCR 50.5 PLAN & PROFILE

2.17A
WETLAND MITIGATION AREAS

NOTE:
ANY DAMAGE TO THE WETLANDS WILL RESULT IN A $1,000 FINE PER INCIDENT TO THE CONTRACTOR.
NOTES:

1. STA 7+00 - STA 9+00, for the two east-most existing fiber optic utilities:
   Prior to proceeding with any earthwork grading activities between STA 7+00 and STA 9+00, the Contractor shall contact
   Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to coordinate a standby
   representative of CenturyLink to be on site during these activities.

2. Culvert Area, for the two east-most existing fiber optic utilities:
   Prior to proceeding with installation of the cofferdam and/or any earthwork grading activities related to the culvert installation,
   the Contractor shall contact Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to
   coordinate a standby representative of CenturyLink to be on site during these activities.

3. Prior to proceeding with installation of the 12" RCP under proposed WCR 50.5 the Contractor shall contact CenturyLink and
   Xcel Energy to coordinate standby representatives to be on site during these activities.

POWER POLE TO
BE RELOCATED
BY UTILITY OWNER

EXISTING 200 PAIR PHONE
CABLE TO BE LOWERED IN
PLACED BY UTILITY OWNER

EXISTING 2" HIGH
PRESSURE GAS LINE CAUTION!
PROTECT IN PLACE

WELD COUNTY R.O.W. LINE

POWER POLE TO BE RELOCATED
BY UTILITY OWNER

GUY WIRE TO BE
RELOCATED BY
UTILITY OWNER

NOTES:

1. CONTRACTOR SHALL INSTALL MINIMUM
   5"x8"x1" STEEL PLATES OVER THE SEWER LINE DURING CONSTRUCTION.
   CONTRACTOR SHALL DEFINE THE AREA THAT WILL BE CROSSED WITH CONSTRUCTION EQUIPMENT AND LIMIT CROSSING TO THIS AREA.

2. THE SEWER LINE WILL BE CAMERADO PRIOR TO CONSTRUCTION AND AFTER CONSTRUCTION.

APPROXIMATE LOCATION OF NEW POWER POLE BY UTILITY OWNER

APPROXIMATE LOCATION OF NEW POWER POLE BY UTILITY OWNER

SAN. SEWER
PROTECT IN PLACE. SEE NOTE 1

APPROXIMATE LOCATION OF NEW POWER POLE BY UTILITY OWNER

RELOCATE
POWER POLE BY UTILITY OWNER

APPROXIMATE LOCATION OF NEW POWER POLE BY UTILITY OWNER

SCALE: 1"=40'
U.S. SURVEY FEET

WELD COUNTY ROAD 39 UTILITY PLAN SUPPLEMENT

SCALE: 1"=40'
NOTES:

1. STA 7+00 - STA 9+00, for the two east-most existing fiber optic utilities:
   
   Prior to proceeding with any earthwork grading activities between STA 7+00 and STA 9+00, the Contractor shall contact 
   Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to coordinate a standby 
   representative of CenturyLink to be on site during these activities.

2. Culvert Area, for the two east-most existing fiber optic utilities:
   
   Prior to proceeding with installation of the cofferdam and/or any earthwork grading activities related to the culvert installation, 
   the Contractor shall contact Thomas Longan with Century Link at (720) 878-6311 or thomas.longan@centurylink.com to 
   coordinate a standby representative of CenturyLink to be on site during these activities.

3. Prior to proceeding with installation of the 12" RCP under proposed WCR 50.5 the Contractor shall contact CenturyLink 
   and Xcel Energy to coordinate standby representatives to be on site during these activities.

SEE NOTES FOR EXISTING UTILITIES IN THIS AREA.

SEE NOTES FOR BURIED UTILITIES IN THIS AREA.
**INDEX OF STRUCTURES SUBJECT SHEETS**

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**SUMMARY OF QUANTITIES**

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**WEED COUNTY COLORADO**

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**LEGAL NOTICES**

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**GENERAL NOTES**

A. All notes shall be in accordance with the Standard Specifications for Roads and Streets Construction.
B. The project shall be constructed in accordance with the Standard Specifications for Roads and Streets Construction.
C. All changes shall be noted on the plans and specifications.
D. All work shall be performed in accordance with the Standard Specifications for Roads and Streets Construction.
E. All work shall be performed in accordance with the Standard Specifications for Roads and Streets Construction.
F. All notes shall be in accordance with the Standard Specifications for Roads and Streets Construction.
G. All work shall be performed in accordance with the Standard Specifications for Roads and Streets Construction.
H. All work shall be performed in accordance with the Standard Specifications for Roads and Streets Construction.

**CONTACT INFORMATION**

Weld County Colorado
613 Commercial Parkway, Suite 210
Lakewood, Colorado 80228
970-484-8708
info@weldcountyco.gov
CROSS SECTIONS
SCALE: 1"=20'

MATERIALS LEGEND
- HOT MIX ASPHALT (HMA) TOP LIFT
- HOT MIX ASPHALT (HMA) BOTTOM LIFT
- AGGREGATE BASE COURSE (ABC)

STA 21+25 - 21+71.35

21+71.35

3.24

WCR 39
IMPROVEMENTS

WELD COUNTY COLORADO

PROJECT:
DATE:
PROJECT NO.:

06/17/19
05/20/19
0181479.00

DESCRIPTION:

06/17/19
05/20/19
0181479.00

REVIEWED:
DESIGNED:
DRAWN:

BGC/JCC
BGC
WHERE CONSTRUCTION FENCE IS UTILIZED ALONG WETLAND BOUNDARIES, GREEN FLAGGING SHALL BE TIED TO THE TOP OF THE FENCE AT A MAXIMUM SPACING OF 10 FEET.
1. Reference CDOT Detail M-407-1 for fence installation details. WCR 39 fence to be a 47" field fence with 2 strands of 12 gauge barbed or barbless wire (owner preference). Provide 6" between the top of the field fence and the barbed wire strands.

2. Fence post length above ground to be 60" min. The field fence is to be installed flush to the ground or a maximum of 1/2" off the ground. Provide field fence spacing as shown above (or similar). Provide 6" between the top of the field fence and the barbed wire fence strands.

3. Wooden posts shall be placed at a maximum spacing of 48 ft. All end and line posts shall be pressure treated wood. All end wood posts shall be 8 inches in diameter and shall be 30 inches above grade and a minimum of 60 inches below grade. All wood line posts shall be 6 inches in diameter and shall be 60 inches above grade and a minimum of 36 inches below grade. All wooden gate posts shall be 8 inches in diameter and shall be a minimum of 12 ft long.

4. Steel posts spaced at 16 ft centers shall be used between the wooden posts. Steel posts shall be ASTM A420 certified #133. Steel posts shall be a minimum of 7 ft. Steel posts shall be 60 inches above grade and a minimum of 36 inches below grade.

5. Line bracing should maintain a spacing of 500 ft but can be extended up to 900 ft depending on obstacles.

6. The permanent fence is being set on the right-of-way line after the project is complete, but before seeding.

7. Fencing is being fastened to the landowner's side of the fence.

8. Fasten fencing to wood posts with 6 gauge, double barbed, 2", class 3 galvanized staples or approved equal. A staple shall be used on all cross strands of field fence and each barbed wire strand (min).

9. Fasten fencing to steel posts with fencing clips per manufacturer's recommendations.

10. All post spacing shall be 5; the distances shown where fence is to be placed on a curve.

11. All horizontal bracing members shall be notched into the vertical posts.

NOTES:
1. Reference CDOT Detail M-407-1 for fence installation details. WCR 39 fence to be a 47" field fence with 2 strands of 12 gauge barbed or barbless wire (owner preference). Provide 6" between the top of the field fence and the barbed wire strands.

2. Fence post length above ground to be 60" min. The field fence is to be installed flush to the ground or a maximum of 1/2" off the ground. Provide field fence spacing as shown above (or similar). Provide 6" between the top of the field fence and the barbed wire fence strands.

3. Wooden posts shall be placed at a maximum spacing of 48 ft. All end and line posts shall be pressure treated wood. All end wood posts shall be 8 inches in diameter and shall be 30 inches above grade and a minimum of 60 inches below grade. All wood line posts shall be 6 inches in diameter and shall be 60 inches above grade and a minimum of 36 inches below grade. All wooden gate posts shall be 8 inches in diameter and shall be a minimum of 12 ft long.

4. Steel posts spaced at 16 ft centers shall be used between the wooden posts. Steel posts shall be ASTM A420 certified #133. Steel posts shall be a minimum of 7 ft. Steel posts shall be 60 inches above grade and a minimum of 36 inches below grade.

5. Line bracing should maintain a spacing of 500 ft but can be extended up to 900 ft depending on obstacles.

6. The permanent fence is being set on the right-of-way line after the project is complete, but before seeding.

7. Fencing is being fastened to the landowner's side of the fence.

8. Fasten fencing to wood posts with 6 gauge, double barbed, 2", class 3 galvanized staples or approved equal. A staple shall be used on all cross strands of field fence and each barbed wire strand (min).

9. Fasten fencing to steel posts with fencing clips per manufacturer's recommendations.

10. All post spacing shall be 5; the distances shown where fence is to be placed on a curve.

11. All horizontal bracing members shall be notched into the vertical posts.
1. Refer to CDOT Detail M-607-1 for fence installation details. WCR 39 fence to be a 5 strand barbed wire fence.

2. Fence post length above ground to be 50" min. The first line is spaced 16" off of the ground. Second line is 8" above the first line. Third line is 8" above the second, fourth is 8" above the third, and the fifth line is 8" above the fourth line. The fifth line is also 2 inches below the top of the fence post.

3. Wooden posts shall be placed at a maximum spacing of 96 ft. All end and line posts shall be pressure treated wood. All end wood posts shall be 6 inches in diameter and shall be 80 inches above grade and a minimum of 80 inches below grade. All wood line posts shall be 5 inches in diameter and shall be 50 inches above grade and a minimum of 36 inches below grade. All wooden gate posts shall be 8 inches in diameter and shall be a minimum of 12 ft long.

4. Steel posts spaced at 16 ft centers shall be used between the wooden posts. Steel posts shall be ASTM A702 certified #133. Steel posts shall be a minimum of 7 ft, steel posts shall be 56 inches above grade and a minimum of 24 inches below grade.

5. Line bracing should maintain a spacing of 800 ft but can be extended up to 1,000 ft depending on obstacles.

6. The temporary fence is being set on the temporary construction easement (TCE). The permanent fence is being set on the right-of-way line after the project is complete, but before seeding.

7. Fencing is being fastened to the landowner side of the fence.

8. Barbed or barbless wire shall be per ASTM A121 12.5 gauge, 4 point barbs, 4" spacing min., 80 lbs spool, Class 1 galvanized, (coordinate with landowner as to which one they want)

9. Staples shall be double barbed, 8 gauge.

10. All post spacing shall be 1/2 the distances shown where fence is to be placed on a curve (STA 19+12.64 to STA 20+84.95)

11. All horizontal bracing members shall be notched into the vertical posts.

12. Every H-brace, corner, and gate post shall be concreted.

13. It is anticipated that a minimum of 8.5 - 80 lb bags of concrete will be required for each H-brace, corner, or gate post. This assumes a 15 inch diameter by 80 inch deep hole, 6 inch diameter post, and 0.6 cubic feet of concrete per 80 lb bag.
POSSIBLE CONSTRUCTION STAGING AREA NOTES

1. The entire possible construction staging area is located within the Union Pacific Railroad property.

2. Before utilizing the possible construction staging area for any construction staging purposes, and any other entry into the Union Pacific Railroad right of way, Contractor shall obtain an approved "Contractor Right of Entry Agreement" from Union Pacific Railroad Company. No assurance is made that the Contractor will receive permission from Union Pacific Railroad to utilize the possible construction staging area for construction staging purposes.

3. If allowed, construction staging must be located a minimum of 50 feet from the nearest railroad track rail.

4. Access must be maintained at all times for the traveling public along existing WCR 39/Walnut Street and WCR 50.5.
EROSION LOG INSTALLATION

SECTION A-A

NOTES:
1. Erosion Log shall be embedded 2 inches into the soil.
2. Gravel shall not be used.
3. V-shaped temporary ditches shall not be used. Ditches shall be drained in a parabolic or trapezoidal shape.

DRAINAGE DITCH APPLICATIONS

ELEVATION

NOTES:
1. Points A shall be a minimum of 4 in higher than point B.
2. Erosion Log shall not extend more than 2 inches above the tops of erosion logs.
3. Trench Log shall be drained in a parabolic or trapezoidal shape.

PLAN VIEW

EROSION CONTROL DETAILS

WELD COUNTY COLORADO

WCR 39 IMPROVEMENTS

PROJECT:
DATE:
PROJECT NO.:

1612 SPECHT POINT ROAD, SUITE 105
FORT COLLINS, COLORADO 80525
(970) 484-7477 / info@f-w.com
TYPICAL STAPLE PATTERN FOR CHANNEL APPLICATION

SOIL RETENTION BLANKET (CLASS D)

SOIL RETENTION BLANKETS/TURF REINFORCEMENT MATS (TRM)

SOIL FILLED TRM APPLICATION

1. Place 3" topsoil or soil amended with soil conditioning.
2. Apply seed and rake into soil.
3. Install TRM.
4. Place 0.5" to 1" topsoil, or soil amended with soil conditioning.
5. Apply seed and rake into soil.
6. Install soil retention blanket (CLASS D).

TYPICAL TURF REINFORCEMENT MAT (TRM)

SOIL RETENTION BLANKET (CLASS D)

SIDE SEAM OVERLAP

CHANNEL CHECK SLOT

TERMINATION OF CHANNEL

GENERAL NOTES

I. 2 SHAPED FOLDS TO BE SEEN ON SLOPE EVERY 30 FEET MAXIMUM.
II. STAPLE CHECK LOCATIONS SHOULD BE AT LEAST 15 FEET FROM THE BOTTOM OF SLOPE.

APPLY SEED AND ANY REQUIRED SOIL CONDITIONERS PRIOR TO COVERING WITH BLANKET.

TO BE USED WHENEVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS WITH UPSTREAM BLANKET PLACED ON TOP OF THE BLANKET ON THE DOWNSTREAM SIDE.

APPLY SEED AND ANY REQUIRED SOIL CONDITIONERS PRIOR TO COVERING COMPACTED SOIL WITH BLANKET.

TO BE USED AT THE BEGINNING AND END OF THE CHANNEL, ACROSS ITS ENTIRE WIDTH.

TO BE USED AT 30" INTERVALS IN CHANNEL FLOWLINE.
SOIL RETENTION BLANKETS/TURF REINFORCEMENT MATS (TRM) SLOPE APPLICATION

IN ACCORDANCE WITH SECTION 286.

1. EARTH ANCHORS WILL BE USED INSTEAD OF STAPLES WHEN SPECIFIED IN THE PLANS.
2. EARTH ANCHORS SHALL BE PAID FOR SEPARATELY AS SPECIFIED IN SECTION 286.

TYPICAL STAPLE OR EARTH ANCHOR PATTERN FOR SLOPE APPLICATION

IF EARTH ANCHORS ARE NOT SPECIFIED ON THE PLANS, ONLY STAPLES SHALL BE USED. SEE SUBSECTION 286.04
STRUCTURE EXCAVATION MEASUREMENT FOR PIPE CULVERTS

PLAN

LIMITS OF MEASUREMENT FOR STRUCTURE EXCAVATION

B{o} = INSIDE DIAMETER OR INSIDE SPAN OF PIPE
B{c} = OUTSIDE DIAMETER OR RISE OF PIPE

SUBGRADE

W = OUTSIDE WIDTH OF PIPE

PROFILE

FOR APPLICABLE LIMITS OF STRUCTURE EXCAVATION, SEE DETAILS ON SHEET 1 OF THESE DETAILS.
STRUCTURE EXCAVATION UP TO 1 FT. ABOVE THE TOP OF THE PIPE SHALL NOT INCLUDE THE TOP OF THE PIPE.

RETAINING WALL IN CUT & IN PARTIAL CUT

STRUCTURE EXCAVATION MEASUREMENT FOR CONCRETE BOX CULVERTS

W = OUTSIDE WIDTH OF STRUCTURE

PLAN

LIMITS OF MEASUREMENT FOR STRUCTURE EXCAVATION

SUBGRADE

W = OUTSIDE WIDTH OF STRUCTURE

PROFILE

FOR APPLICABLE LIMITS OF STRUCTURE EXCAVATION, SEE DETAILS ON SHEET 1 OF THESE DETAILS.
STRUCTURE EXCAVATION UP TO 1 FT. ABOVE THE TOP OF THE PIPE SHALL NOT INCLUDE THE TOP OF THE PIPE.

REVIEWED: DESIGNED: DRAWN: SHEET TITLE: SHEET NUMBER: FIELD BOOK NO.

STANDARD DETAILS

4.11
GENERAL NOTES

REINFORCED CONCRETE PIPE

1. Fill, headwalls greater than 0.5 ft. are allowed in the headwalls of fill. Tables on this sheet require special design of structure.

2. Pipe design is based on safety factor of 1.33 on ultimate strength.

3. The heights of fill over top of pipe are based on unit weight of soil at 120 lb/ft³ per cubic ft.

4. Pipe class is determined from 0.8 in. crack 2-D load.

5. Bending class is modified from concrete pipe design manual—American Concrete Pipe Association with settlement ratio B = 0.04 (cyldes, 900). Bending materials for rigid pipe in fill shall be 3 in. thick. The thickness of structure backfill class 2. Bending material for rigid pipe in rock shall be 12 in. thick. The thickness of structure backfill class 3.

6. Changes in design factors require compensating changes in pipe design.

7. Minimum wall thicknesses are based on inside w 170. Mill pipe shall be used for circular pipe, and inside w 270 for elliptical pipe.

8. Spacing for multiple pipe installations shall conform to the details shown on standard plan M-108-E.

9. When a pipe is to be extended, the same pipe material and size as in the original pipe installation shall be used.

NONREINFORCED CONCRETE PIPE

1. At the option of the contractor, non-reinforced concrete pipe conforming to AASHTO M 115 may be used in lieu of reinforced concrete pipe for all sizes 36 inches in diameter and smaller. The non-reinforced concrete pipe shall meet the same 2-D load produced on the ultimate load under the three load spreading method as specified for reinforced concrete pipe in conformance with AASHTO M 115. The contractor shall provide written certification of conformance. The wall thickness of the non-reinforced pipe may be increased as required to meet 2-D load requirements.

2. All requirements for reinforced concrete pipe, except those referring to reinforcement, shall apply to non-reinforced concrete pipe.

Weld County Colorado

WCR 39 Improvements

Circumference (CR)

Vertical Elliptical (VE)

Horizontal Elliptical (HE)

Allowable Range of Heights for Fill

Over Reinforced Concrete Pipe

(a) Std. Sizes

REINFORCED CONCRETE PIPE

STANDARD PLAN NO.

M-603-2

Sheet No. 1 of 1
WELD COUNTY
STATE OF COLORADO

RIGHT OF WAY PLANS OF PROPOSED
COUNTY ROAD 39
SECTION 32
TOWNSHIP 5 NORTH, RANGE 65 WEST OF 6TH P.M.

Length of Project = 2,245 Feet (0.43 Miles)

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N15°19'05"W
from the West 14th Corner of Section 32, T5N, R65W, being a 3.25" diameter cap stamped "B-4093 0040 061 056.000" to the
Center 14th Corner of Section 33, being a 3.25" diameter cap stamped "N15°30'44"W 009.000" survey data, was obtained
from a Global Navigation Satellite System (GNSS) survey
for the Colorado High Accuracy Reference Network (CHARN).

1. This Right-of-Way Plan is not a boundary survey of the
original property and is prepared for Weld County
Public Works Department purposes only.

2. For title information, the Public Works Department of
Weld County relies on Title Reports prepared by
Fidelity National Title Insurance Company.

3. This plan set is subject to change and may not be the
most current set, it is the user's responsibility to verify
with Weld County that the set is the most current. The
information contained on the attached drawing is not valid
unless this copy bears an original signature of the
Professional Land Surveyor herein named.

NOTICE: According to Colorado law you must commence
any legal action based upon any defect in this survey
within three years after you first discover such defect.
In no event may any action based upon any defect in this
survey be commenced more than ten years from the
date of the certification shown hereon.

WELD COUNTY PUBLIC WORKS DEPARTMENT

SURVEYOR'S STATEMENT FROM PLANS

1. Jeff P. Dedesky, a professional surveyor licensed in the
State of Colorado, did hereby stake to the Public Works Department
Weld County that upon my knowledge, information and belief,
recreational calculations and evaluation of the survey evidence were
performed and this Right-of-Way Plan was prepared under
my responsible charge in accordance with the standards of good
practice defined by Department of Transportation publications.

This statement is set as a warranty or warranty, either expressed or implied.

PLS No. 30934
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<th>Remainder Right</th>
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<tr>
<td>RV-02</td>
<td>0961323000028 JAMES E. CONLIN AND MARY ANN CONLIN</td>
<td>19055 COUNTY ROAD 50 1/2 LA SALLE, CO 80645</td>
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<td>SAME AS ABOVE</td>
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<td>19,600 +/- SQ. FT. 0.450 +/- ACRES</td>
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<td>19120 COUNTY ROAD 52 LA SALLE, CO 80645</td>
<td>LOT A OF RECORDERED EXEMPTION NO. 0985-32-3533-787</td>
<td>3,933 +/- SQ. FT. (0.877 +/- ACRES)</td>
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<td>RV-04</td>
<td>0961323000088 LAWRENCE &amp; JADE MURRAY ROSS</td>
<td>19120 COUNTY ROAD 52 LA SALLE, CO 80645</td>
<td>UNPLANNED LAND DESCRIBED AT RECEPTION NO. 4494121</td>
<td>43,727 +/- SQ. FT. (0.983 +/- ACRES)</td>
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<td>SAME AS ABOVE</td>
<td>3,854 +/- SQ. FT. (0.970 +/- ACRES)</td>
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<td>RV-05</td>
<td>0961323000078 PETROLEUM EXPLORATION &amp; MANAGEMENT LLC, A COLORADO LIMITED LIABILITY COMPANY</td>
<td>VACANT LAND UNPLANNED LAND DESCRIBED AT RECEPTION NO. 4827012</td>
<td>15,543 +/- SQ. FT. (0.357 +/- ACRES)</td>
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<td>15,543 +/- SQ. FT. 0.357 +/- ACRES</td>
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<td>RW-06</td>
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<td>141,127 +/- SQ. FT. (0.240 +/- ACRES)</td>
<td>0.240 +/- ACRES</td>
<td>141,127 +/- SQ. FT. 0.240 +/- ACRES</td>
<td>141,127 +/- SQ. FT. 0.240 +/- ACRES</td>
<td>141,127 +/- SQ. FT. 0.240 +/- ACRES</td>
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<td>FOR ROADWAY CONSTRUCTION PURPOSES</td>
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WELD COUNTY
STATE OF COLORADO
PROJECT/LAND SURVEY CONTROL DIAGRAM
COUNTY ROAD 39
SECTION 32
TOWNSHIP 5 NORTH, RANGE 65 WEST OF 6TH P.M.

PROJECT LOCATION MAP

Scale 1" = 1 Mile

SHEET NO. INDEX OF SHEETS
5.2 (1) Title Sheet
5.3 (1) Monument Coordinate Tables
5.4 (1) Plan Sheet
5.5 (1) Total Sheets

Project Control is based on CDT Project STE M46-004, Project Code 14264.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N9°20'30"W from the West 1/4 Corner of Section 33, TSN, R65W, being a 3.25° aluminum cap staked "1994 LS 220989", to the Center 1/4 Corran of said Section 32, being a 2.5° aluminum cap staked "1999 LS 232744". The survey data was obtained from a Global Navigation Satellite System (GNSS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on NGS Benchmark D 314, PBD: LID2009, a standard bench mark disk set in top of concrete monument with a NAVD88 elevation of 4650.431.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83 (00000) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000259933. The resulting project coordinates are truncated to 1,000,000th in the northing and 3,000,000th in the easting after converting from state plane coordinates to project coordinates.

Project Coordinates Northing US Survey Feet = [(State Plane Coordinate Northing * 1.000259933) - 1,000,000].

Project Coordinates Easting US Survey Feet = [(State Plane Coordinate Easting * 1.000259933) - 3,000,000].

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown herein.

PROJECT REVISIONS

Right of Way Plans
Project/Land Survey Control

FAUNSTOW
GROUP

5612 ETC Parkway, Suite 1100
GREENWOOD VILLAGE, CO 80111
(303) 685-8888 / (303) 499-0400/Fax
www.f-w.com

NOTE: For a complete listing of symbology used within this set of plans, please refer to the M-000-1 Standard Symbols of the Colorado Department of Transportation M&G Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full-weight without screening.

General Notes:
1. This Survey Control/Diagram is not a boundary survey of the adjoining property and is prepared for Weld County Public Works Department purposes only. No determination has been made to determine if the found monuments as shown are in their proper position or if they are at the corners they are intended to monument.
2. Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. The verification of the physical-evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with Weld County that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereinafter named.
4. Refer to the M-0629-1 Survey Monuments of the Standard Plans found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

SCALE 1" = 1 Mile

2003

PLS No. 29034
TABULATION OF R.O.W. MONUMENTS TO BE SET

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<th>Point No.</th>
<th>Northing(ft)</th>
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TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED

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QUANTITY OF MONUMENTS TO BE SET

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General Notes:

1. Accuracies and offset staking may not represent the centerline as constructed in the field.


COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone (NAD 1983/STK) coordinates. The combined scale/zone factor used to modify the coordinates from state plane to project coordinates is 1.000259383. The resulting project coordinates are translated by 1,000,0000 in the Northing and 3,000,000 in the Easting after converting from state plane coordinates to project coordinates. The QMB expects that project coordinates are generated using a scale/zone factor of 1.000259383 and a translation of 1,000,000 in the Northing and 3,000,000 in the Easting. The difference between the QMB's expected scale/zone factor and the factor used by the survey team may result in a discrepancy between the QMB's expected project coordinates and the project coordinates generated by the survey team. Therefore, the survey team is responsible for ensuring that the project coordinates generated by the survey team are compatible with the QMB's expected scale/zone factor and translation.

NOTICE: According to Colorado law, you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown herein.

SURVEYOR STATEMENT (R.O.W. MONUMENTS):

Jeffrey A. Sekatsky, a professional land surveyor licensed in the State of Colorado, hereby states this project was surveyed using state plane coordinates to project coordinates in accordance with all applicable standards of practice defined by the State of Colorado. This statement is not a warranty or guarantee; it is expressed implied.

PLT No. 20934