

CONSTRUCTION PLANS FOR CITY OF LARAMIE

LINFORD SCHOOL DRAINAGE IMPROVEMENTS

AMEC FOSTER WHEELER PROJECT NUMBER 32710207
MAY 2016



PREPARED BY

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CONTACT: ERIC JAAP

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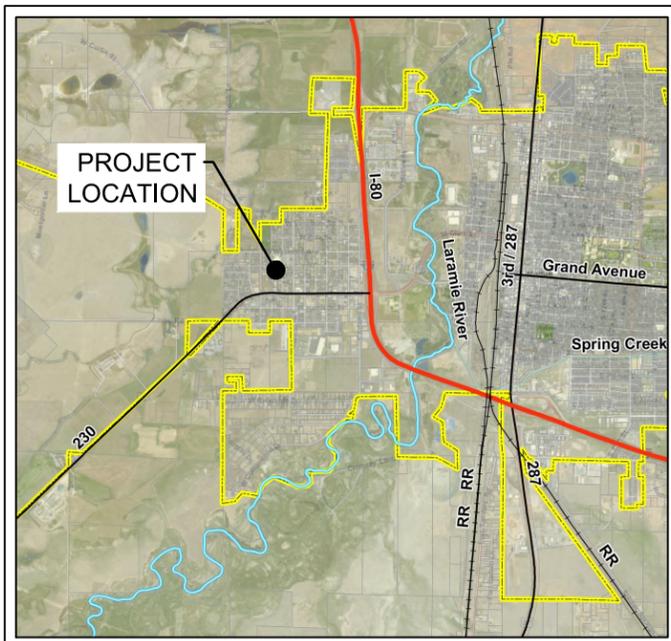
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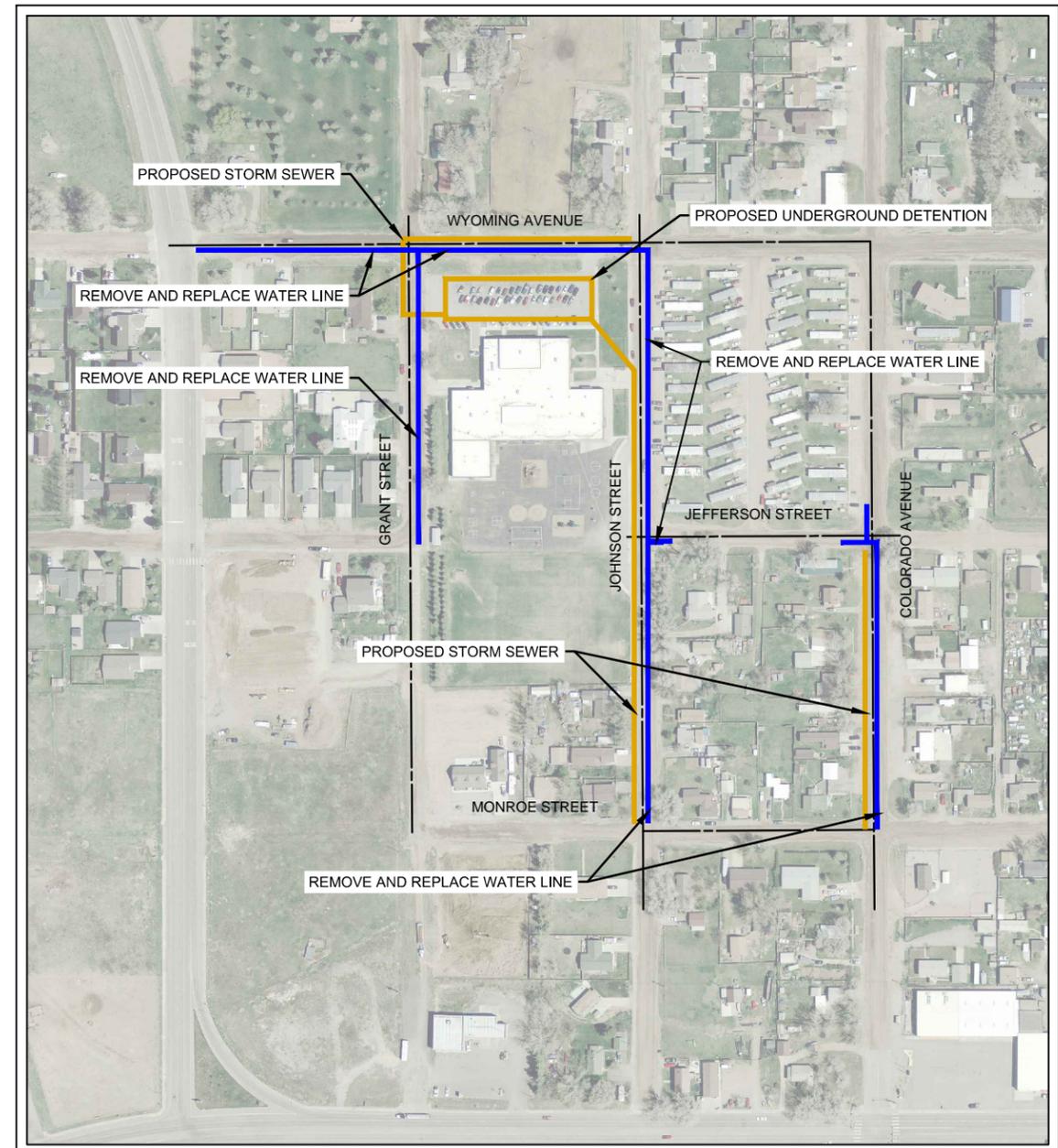
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74	DT-06	CoL STANDARD DETAILS			
75	DT-07	CoL STANDARD DETAILS			
76	DT-08	CoL STANDARD DETAILS			
77	DT-09	CoL STANDARD DETAILS			

VICINITY MAP CITY OF LARAMIE



NOT TO SCALE

PROJECT SITE MAP PROJECT LOCATION: SEC 31 TOWNSHIP 16N RANGE 73W, ALBANY COUNTY WYOMING



ENGINEER'S CERTIFICATE



I, AARON G. MURRAY, STATE THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF WYOMING

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED
PROJECT NO.		32710207	
CITY		LARAMIE	
COUNTY		ALBANY	
STATE		WYOMING	
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CHECKED BY		AGM	

COVER SHEET
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

SHEET
01 OF 77
G-01

P:\32710207 Linford School Drainage\D-CAD\CAD\SheetFiles\O-COVER.dwg



GENERAL NOTES:

1. ALTHOUGH ATTEMPTS HAVE BEEN MADE TO LOCATE AND DEFINE ALL UTILITIES, IT IS ULTIMATELY THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. CONTACT WYOMING ONE CALL AT 1-800-849-2476 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
2. ALL WORK TO BE IN ACCORDANCE WITH THE CITY OF LARAMIE STANDARD DETAILS AND SPECIFICATIONS AND THE LATEST EDITION OF WYOMING PUBLIC WORKS.
3. REPLACE ANY ASPHALT OR CONCRETE WHICH IS DISTURBED BY EXCAVATION TO CITY OF LARAMIE STANDARDS.
4. REPLACE ANY CHAIN LINK AND WIRE FENCING THAT IS DISTURBED BY EXCAVATION.
5. ANY DAMAGE TO EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED AS DIRECTED BY THE ENGINEER OR AFFECTED AGENCIES.
6. CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL AND SUBMIT A TRAFFIC CONTROL PLAN TO BE APPROVED PRIOR TO ANY EXCAVATION. ACCESS TO LOCAL BUSINESSES AND HOMES TO BE MAINTAINED.
7. SPECIAL CARE TO BE TAKEN FOR PROTECTING EXCAVATION FROM UNAUTHORIZED ENTRY.
8. CONTRACTOR TO BE AWARE OF POSSIBLE CLEARANCE ISSUES WITH OVERHEAD LINES AT VARIOUS LOCATIONS ALONG THE PROJECT.
9. ALL UTILITIES CROSSINGS SHOWN ARE APPROXIMATE AND WILL BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL ENSURE THAT EXCAVATION WORK DOES NOT INTERFERE WITH FLOOD CONTROL EFFORTS BY CITY OF LARAMIE PERSONNEL.
11. CONTRACTOR SHALL PROVIDE ALL SUPPORT AND BRACING AS NECESSARY TO PRESERVE AND PROTECT EXISTING PIPES THAT MAY CROSS ABOVE THE PROPOSED ALIGNMENT.
12. NOTE THAT INVERTS ARE AS MEASURED AT CENTER OF THE STRUCTURE AND THE PIPES' RESPECTIVE SLOPES SHALL BE AS PROJECTED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
13. THE CITY OF LARAMIE SOIL ZONE MAP / PAVEMENT STUDY INDICATES THAT THE CBR WITHIN THE PROJECT LIMITS IS BETWEEN 5 AND 10.
14. ALL EXPOSED SOILS THAT WILL RECEIVE BASE MATERIALS SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES, CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND RE-COMPACTED TO 95% OF ASTM D. CRUSHED AGGREGATE BASE OR PAVING SHOULD NOT BE PLACED ON FROZEN OR IMPROPERLY MOISTURE CONDITIONED SUBGRADE.
15. TEMPORARY DEWATERING MAY BE REQUIRED DURING PLACEMENT OF BASE MATERIALS IF SHALLOW GROUNDWATER IS ENCOUNTERED. WE STRONGLY RECOMMEND DEWATERING PRIOR TO CONSTRUCTION IF THIS SITUATION ARISES. DEWATERING MAY REQUIRE INSTALLATION OF SUMPS, SHALLOW WELLS, OR WELL POINTS. THE GROUNDWATER SURFACE ELEVATION SHOULD BE CONTROLLED TO A MINIMUM OF 2-FEET BELOW THE BOTTOM OF ALL SUBGRADE FINISH ELEVATIONS TO ENSURE PROPER COMPACTION OF NATURAL SUBGRADE AND FILL MATERIALS.
16. DEPENDING ON FINAL GRADES, SUBGRADE SOILS MAY BE SOFT AND MOIST TO WET, PARTICULARLY DURING TIMES OF ELEVATED PRECIPITATION. THE USE OF HEAVY EQUIPMENT MAY CAUSE RUTTING OR PUMPING OF THE WET, FINE-GRAINED SUBSOILS. IF COMPACTION OR PROOF ROLLING (STATIC WHEEL ROLLING TO AN UNYIELDING STATE) OF SUBGRADE SOILS IS NOT PRACTICAL DUE TO EXCESSIVE MOISTURE OR IF THE CONTRACTOR'S USE OF EXCESSIVELY HEAVY EQUIPMENT CAUSES PUMPING/RUTTING OR A OTHERWISE "FAILED" SUBGRADE, THE SUBSOILS SHOULD BE OVER-EXCAVATED WITH LOW-GROUND PRESSURE EQUIPMENT AND REPLACED WITH IMPORTED FILL MATERIAL IN ACCORDANCE WITH ONE OF THE FOLLOWING OPTIONS (SEE NOTES 17 AND 18). THE RECOMMENDED PAVEMENT SECTIONS MAY BE PLACED ON THE IMPROVED SUBGRADE.
 - 16.1. SUBSOILS SHOULD BE OVER-EXCAVATED TO A DEPTH OF 2 FEET AND REPLACED WITH COMPACTED PITRUN TYPE MATERIAL. A SEPARATION/STABILIZATION FABRIC IS RECOMMENDED AT THE BASE OF THE 2- FOOT OVER-EXCAVATION TO PREVENT FINES MIGRATION INTO THE PIT-RUN GRAVEL. A WOVEN FABRIC SUCH AS PROPEX 250ST OR EQUIVALENT IS RECOMMENDED.
 - 16.2. SUBSOILS SHOULD BE OVER-EXCAVATED TO A DEPTH OF 18 INCHES AND REPLACED WITH COMPACTED STRUCTURAL FILL MEETING THE GRADING L GRADATION. GEOGRID IS RECOMMENDED AT THE BASE OF THE 18 INCH OVER-EXCAVATION TO PROVIDE SEPARATION/STABILIZATION. A GEOGRID SUCH AS TENSAR BX 1200 IS RECOMMENDED.
17. CONTRACTOR SHALL PROVIDE A CONCRETE EDGE STRIP 6" WIDE BY 12" DEEP AT ALL LOCATIONS WHERE STREET PAVING TIES INTO UNPAVED STREETS.

<u>SURVEY CONTROL TABLE</u>			
CONTROL POINT	NORTHING	EASTING	ELEVATION (FT)
1	295338.6	537164.4	7147.081
2	291448.7	538056.9	7155.460
3	294088.2	536321.5	7145.378
4	293266.9	536992.5	7148.947
5	290233.2	538993.9	7169.831
6	289975.4	538327.6	7167.310
7	290241.5	538964.3	7170.383
8	289038.7	539349.7	7171.827

BENCHMARK :
 PROJECT CONTROL IS BASED ON THE NGS BENCHMARK DESIGNATED "S 343", PID M00983 WITH A NAVD88 PRINTED ELEVATION OF 7139.38 AND NGS B HARN POINT DESIGNATED "LARAMIE", PID M00594 WITH A NAVD88 PRINTED ELEVATION OF 7263.42

DATUM:
 HORIZONTAL COORDINATE VALUES ARE BASED ON STATE PLANE COORDINATES WYOMING EAST ZONE IN U.S. SURVEY FOOT UNITS. WHEN RAISED TO GROUND COORDINATES USE A DATUM ADJUSTMENT FACTOR (DAF) OF 1.00038610

VERTICAL COORDINATE VALUES ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88)

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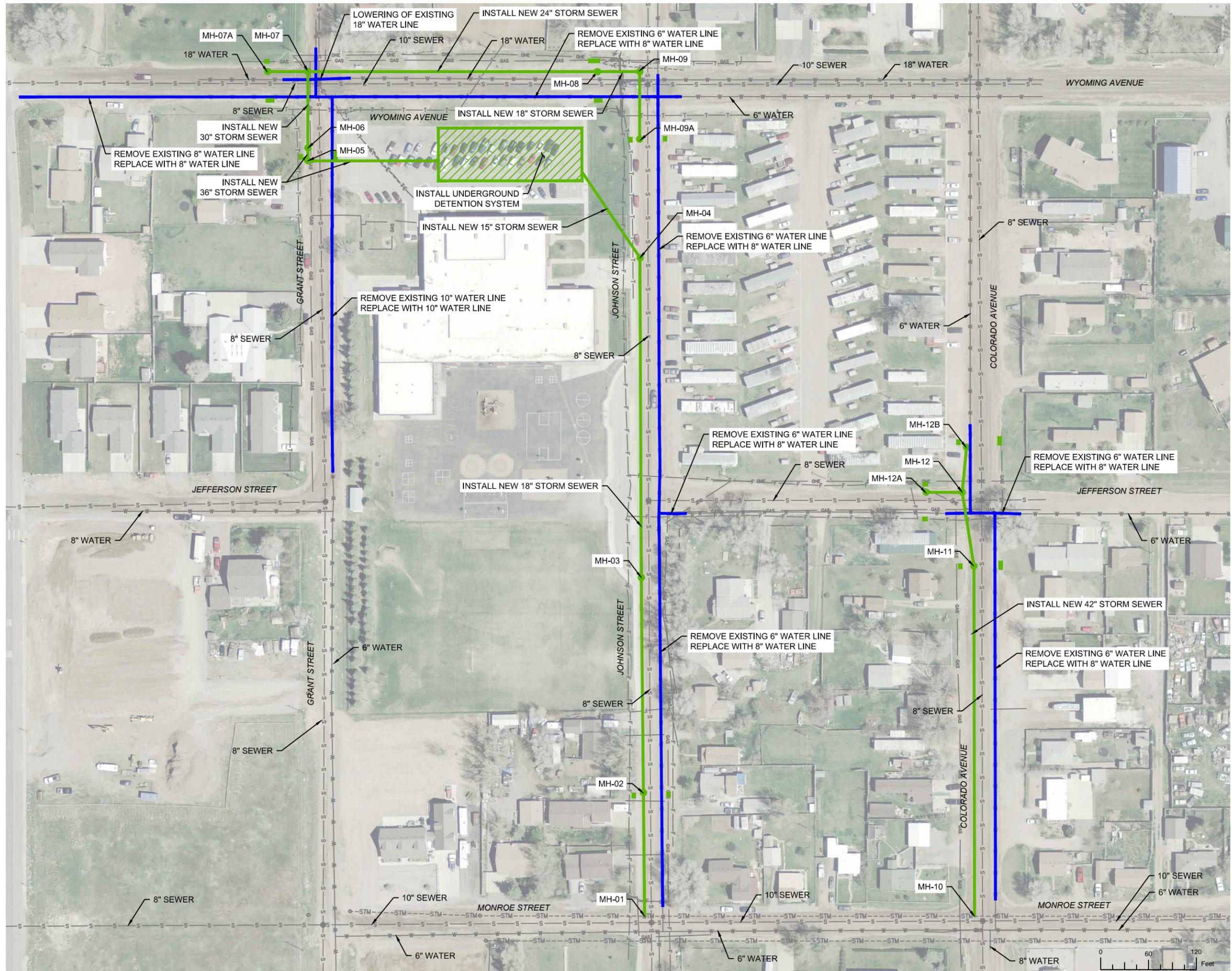
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STATE		WYOMING	
DESIGNED BY		RED	
CHECKED BY		AGM	

GENERAL NOTES
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- S—S—S— EXISTING SANITARY SEWER
- W—W—W— EXISTING WATER
- STM—STM—STM— EXISTING STORM SEWER
- F—F—F— EXISTING FIBER OPTIC
- OHE— EXISTING OVERHEAD POWER
- GAS— EXISTING GAS
- T—T—T— EXISTING TELEPHONE
- PROPOSED WATER
- PROPOSED STORM SEWER



Know what's below.
Call before you dig.



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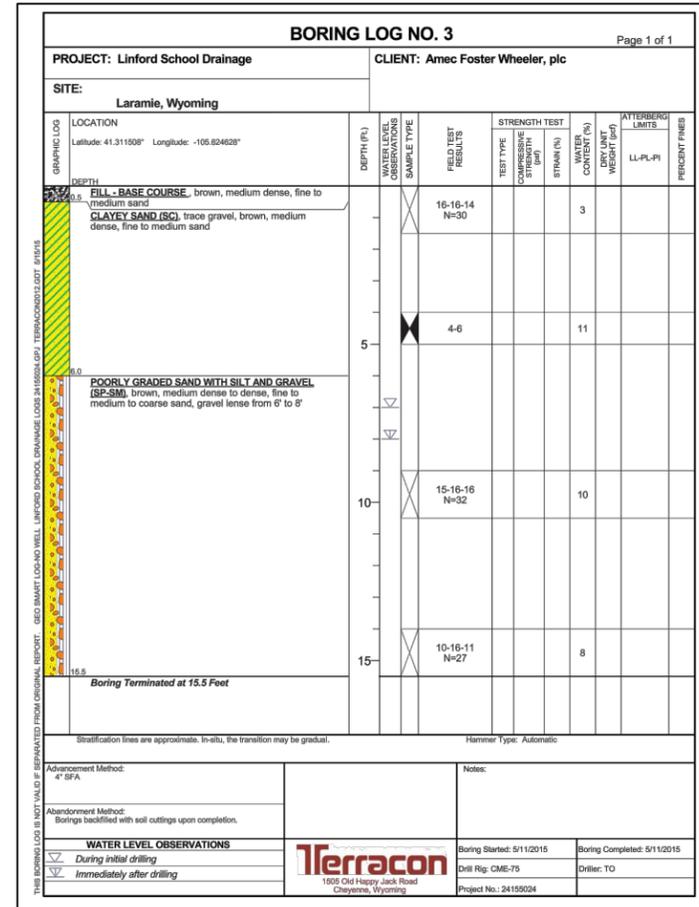
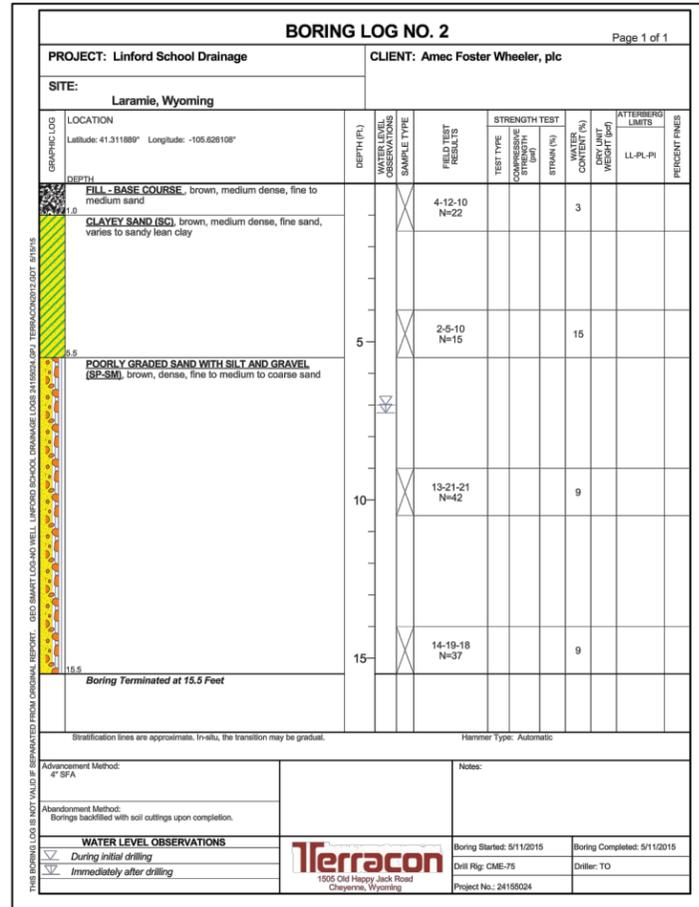
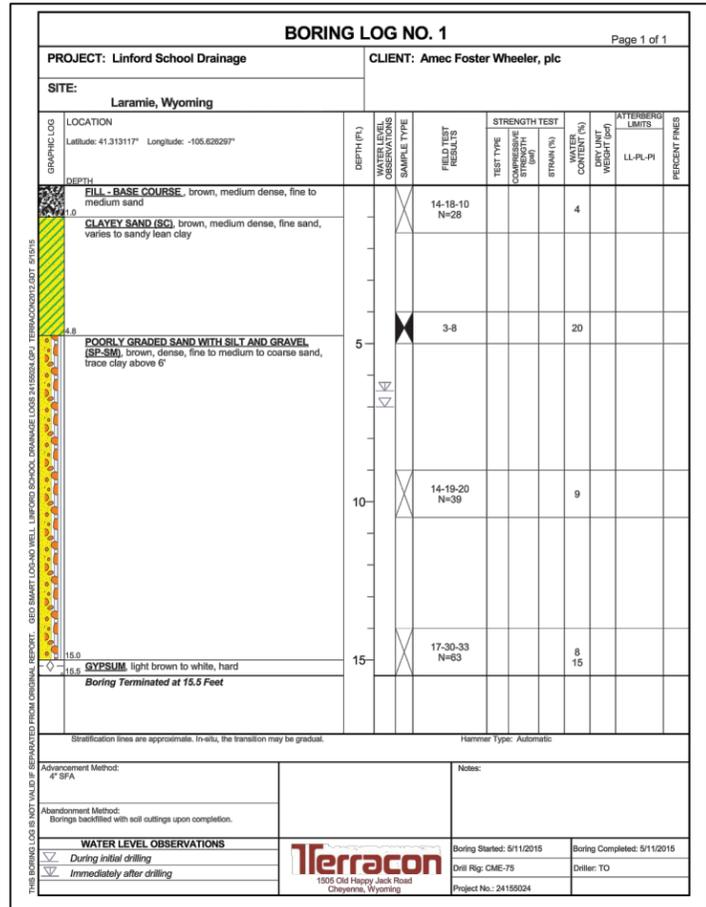
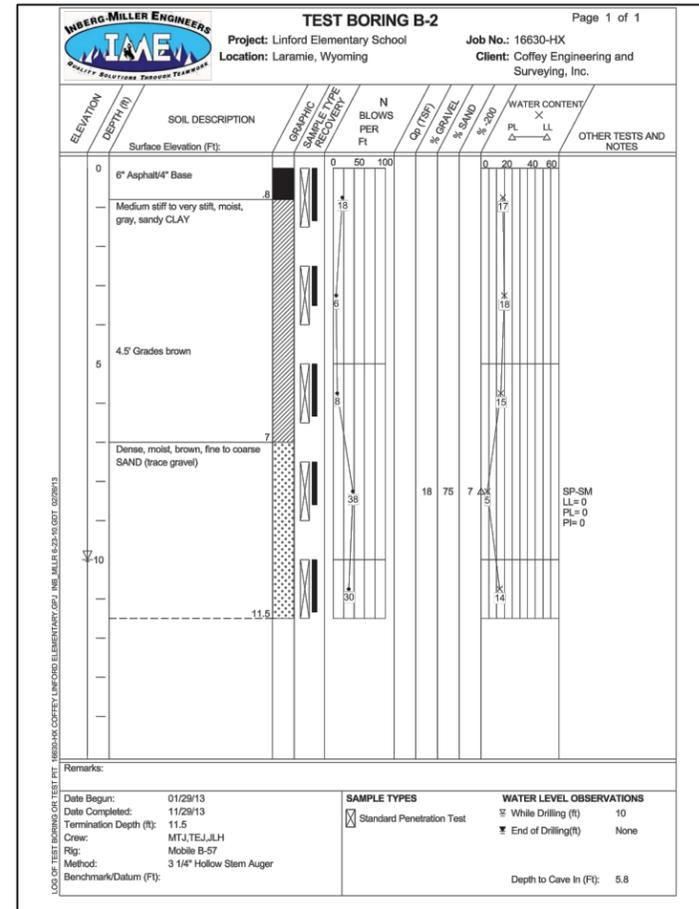
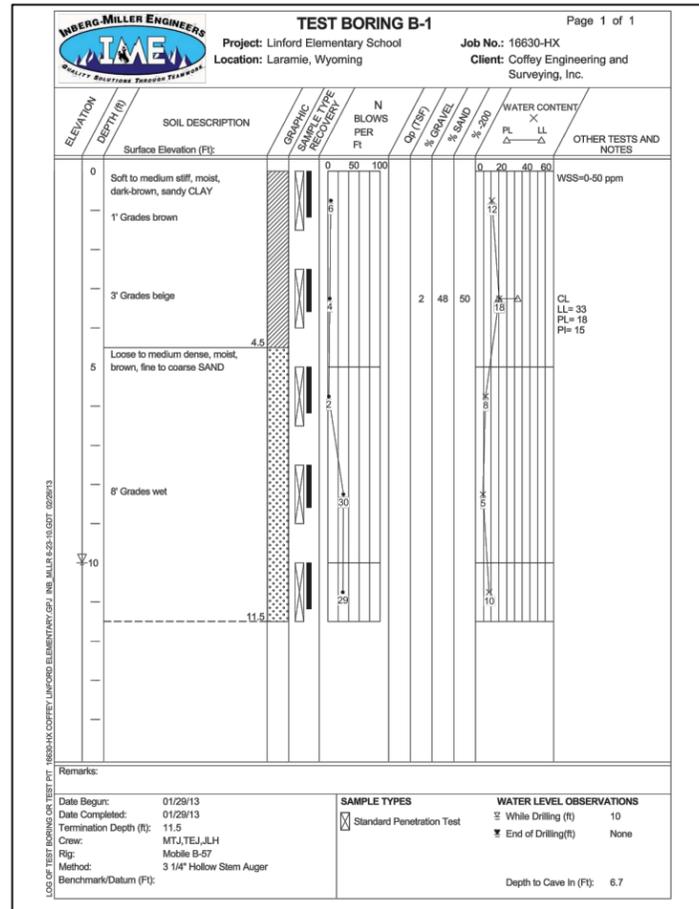
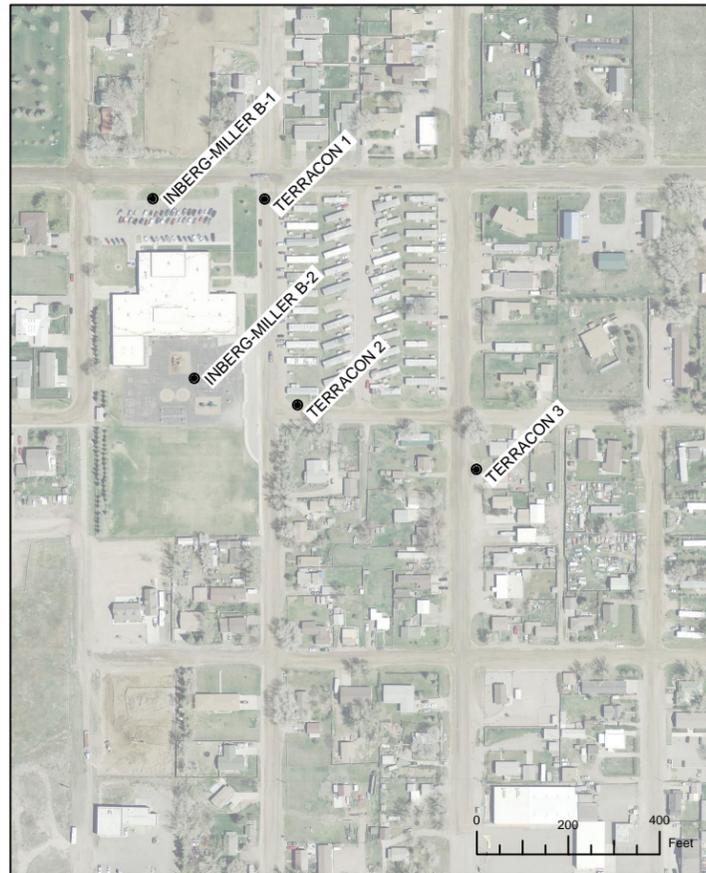
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DESIGNED BY	RED
CHECKED BY	AGM

PROPOSED
CONSTRUCTION PLAN
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

GEOTECHNICAL BORING LOCATION MAP



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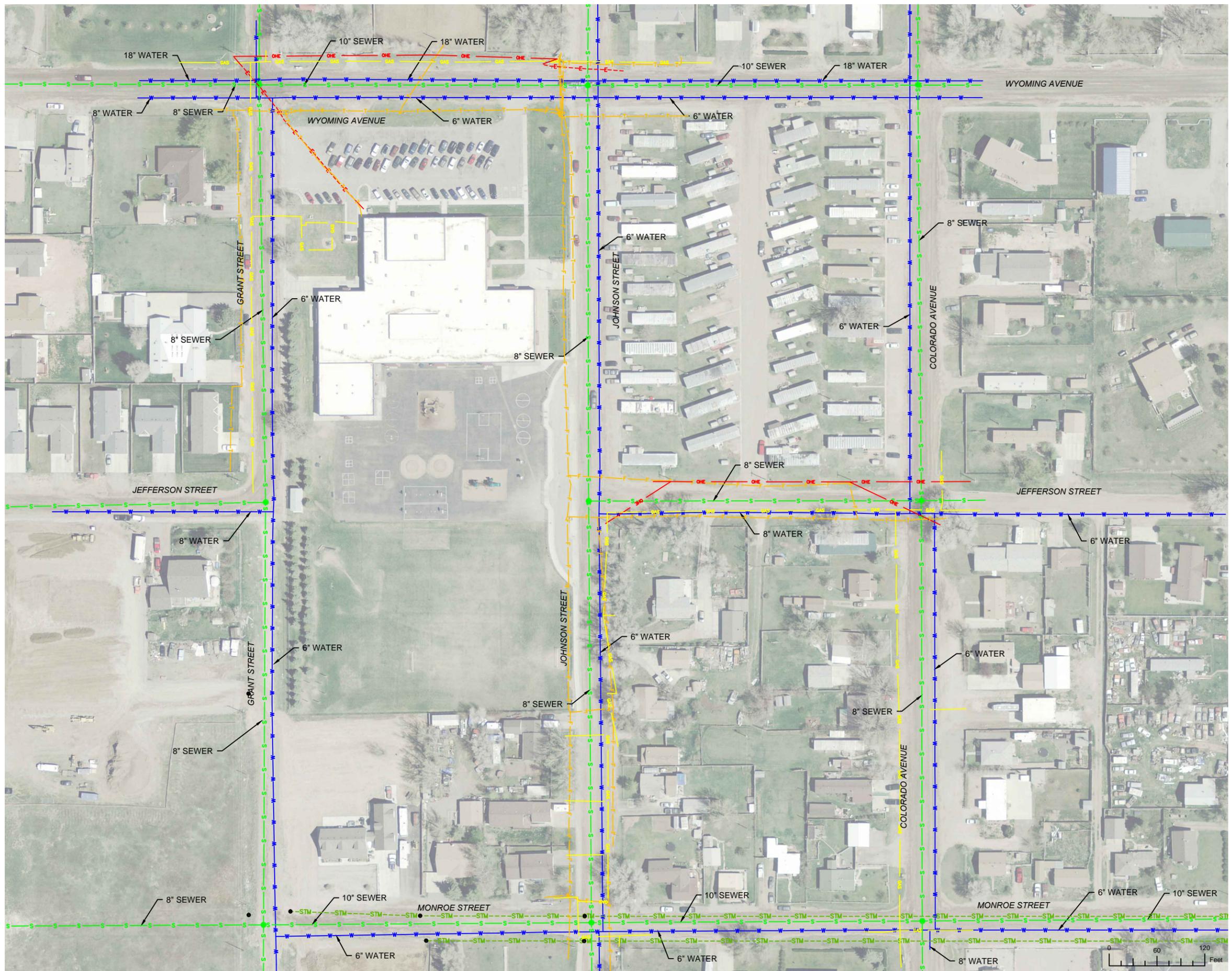
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BORING LOGS
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

SHEET
 04 OF 77
 G-04

- S—S—S— EXISTING SANITARY SEWER
- W—W—W— EXISTING WATER
- - -STM- - -STM- - -STM- EXISTING STORM SEWER
- F—F—F— EXISTING FIBER OPTIC
- OHE—OHE—OHE— EXISTING OVERHEAD POWER
- GAS—GAS—GAS— EXISTING GAS
- T—T—T— EXISTING TELEPHONE



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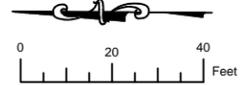
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EXISTING UTILITIES PLAN
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- S — S — S — PROP STORM SEWER
- W — W — W — EX SANITARY SEWER
- — — — — EX WATER
- - - - - STM - - - - - EX STORM SEWER
- - - - - F - - - - - EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊙ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

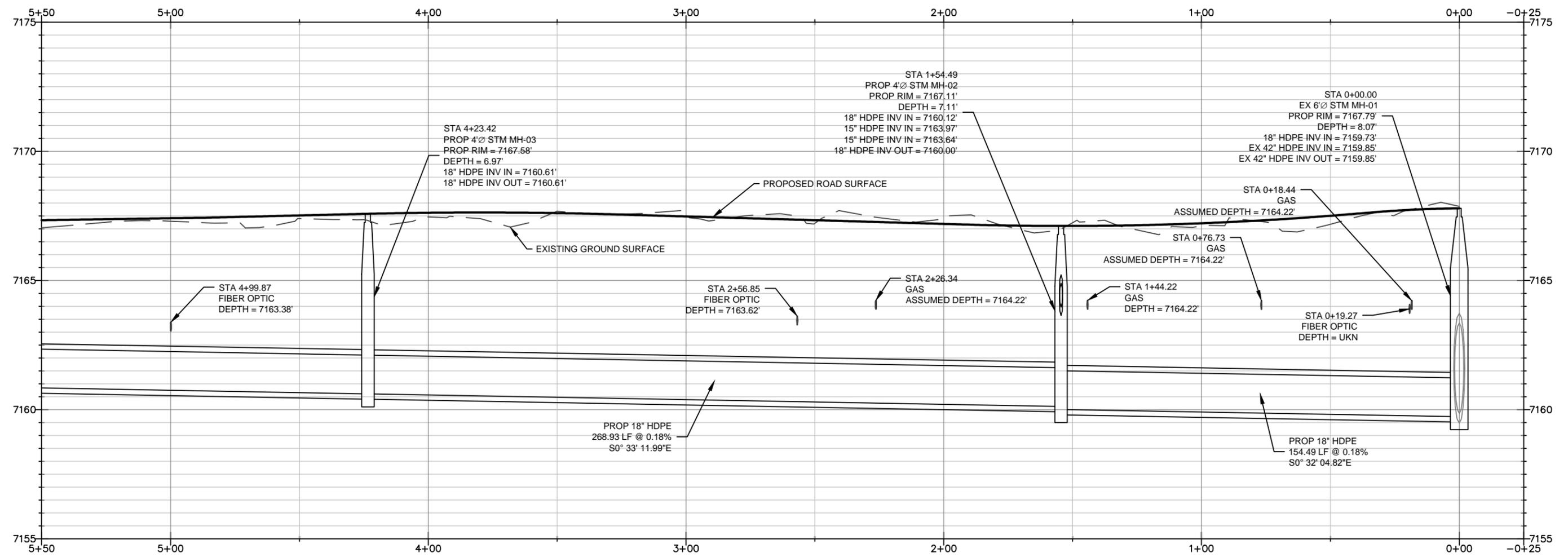
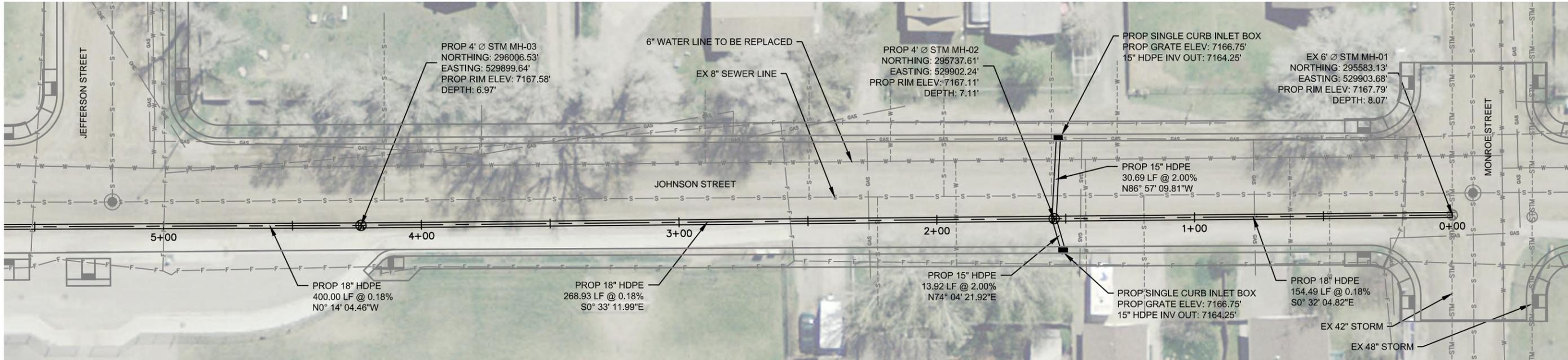
NOTE:
ALL WATER AND SEWER SERVICE LINES ARE APPROXIMATE,
CONTRACTOR SHALL VERIFY LOCATION AND DEPTH.



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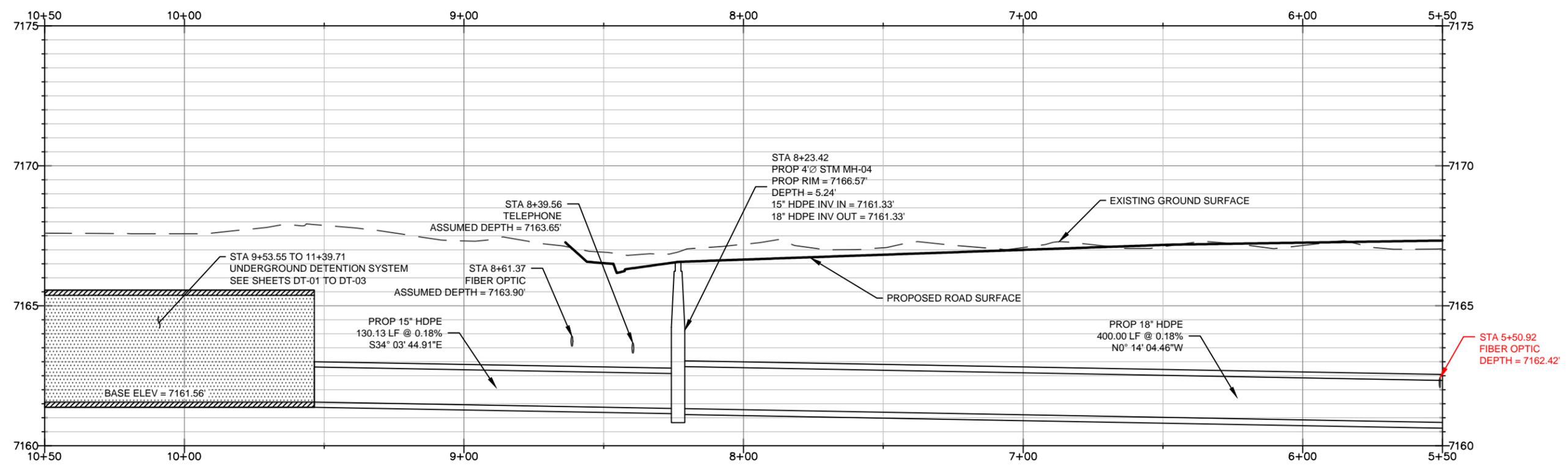
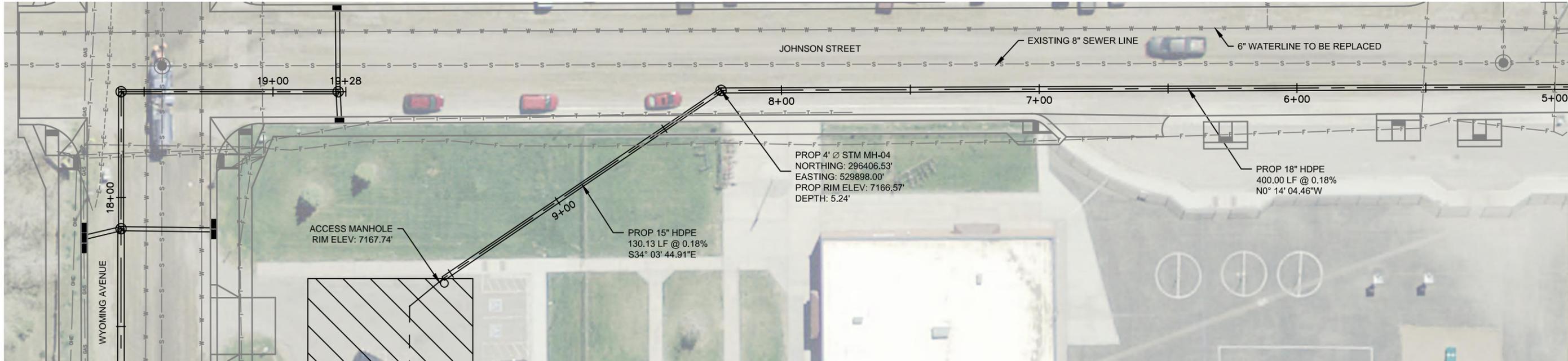
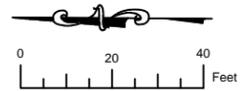
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STORM SEWER PLAN AND PROFILE
JOHNSON - MONROE TO JEFFERSON
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- PROP STORM SEWER
- S — S — S — EX SANITARY SEWER
- W — W — W — EX WATER
- - - STM - - - STM - - - EX STORM SEWER
- F — F — F — EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊕ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

NOTE:
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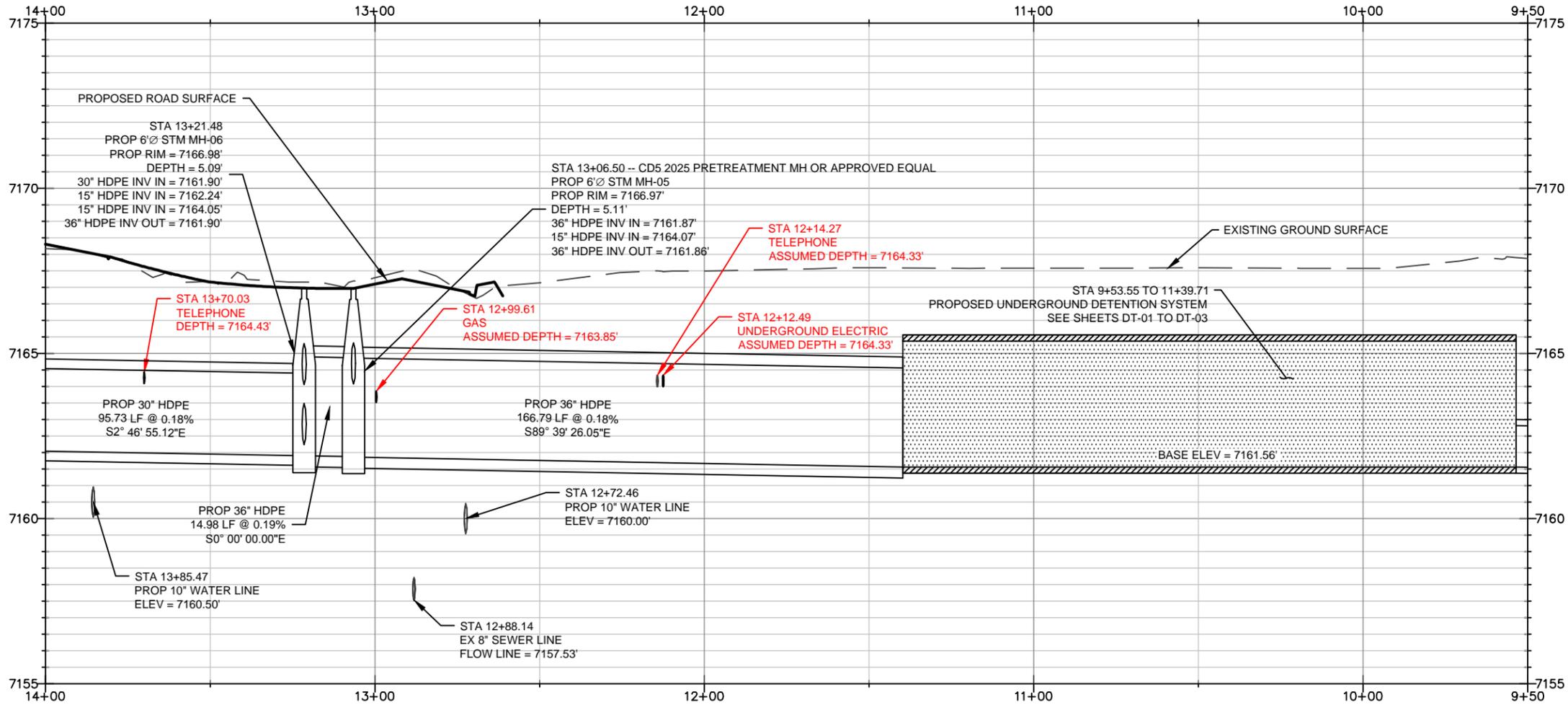
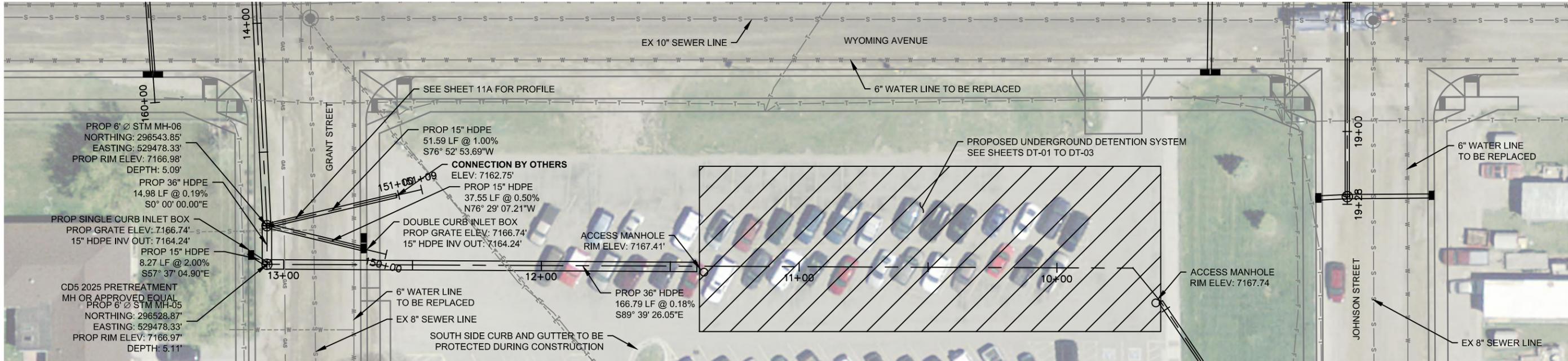
STORM SEWER PLAN AND PROFILE
JOHNSON - JEFFERSON TO WYOMING
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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- S — S — S — PROP STORM SEWER
- S — S — S — EX SANITARY SEWER
- W — W — W — EX WATER
- STM --- STM --- EX STORM SEWER
- F — F — F — EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊙ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

NOTE:
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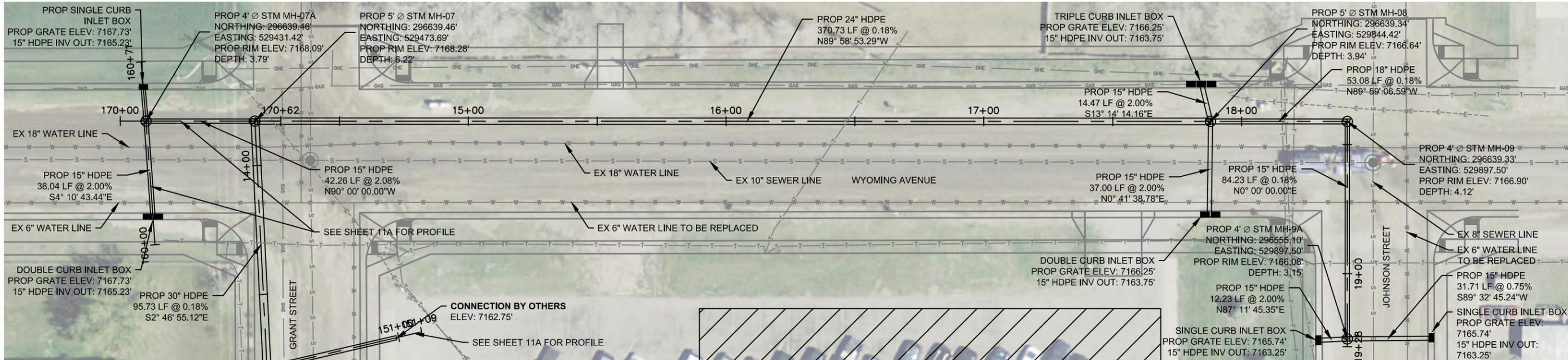
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- PROP STORM SEWER
- S — S — S — EX SANITARY SEWER
- W — W — W — EX WATER
- - - - - EX STORM SEWER
- F — F — F — EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊕ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

NOTE:
ALL WATER AND SEWER SERVICE LINES ARE APPROXIMATE,
CONTRACTOR SHALL VERIFY LOCATION AND DEPTH.



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405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
CONTACT: ERIC JAAP

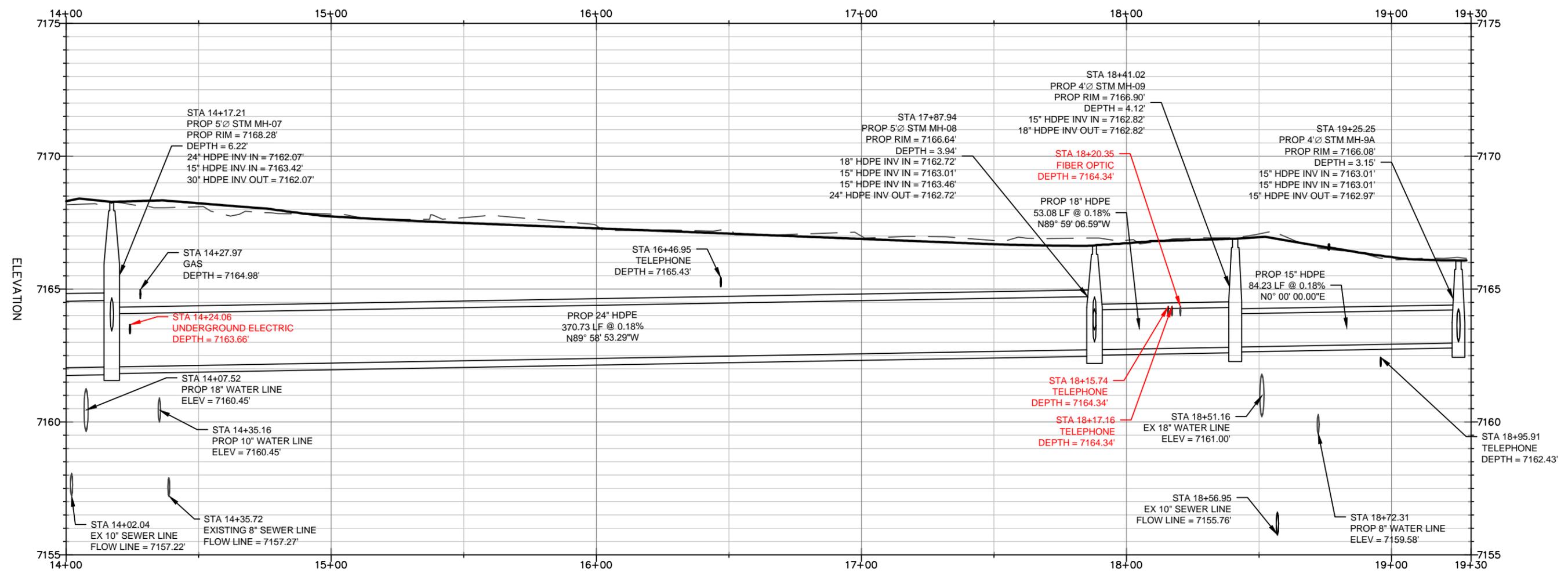
DATE	BY
MAR 2016	RED
MAY 2016	RED

NO.	DESCRIPTION
1	CONSTRUCTION PLAN SET
2	REVISED CONSTRUCTION PLAN SET

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

STORM SEWER PLAN AND PROFILE
WYOMING - GRANT TO JOHNSON
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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- S — S — S — PROP STORM SEWER
- S — S — S — EX SANITARY SEWER
- W — W — W — EX WATER
- STM --- STM --- EX STORM SEWER
- F — F — F — EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊕ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

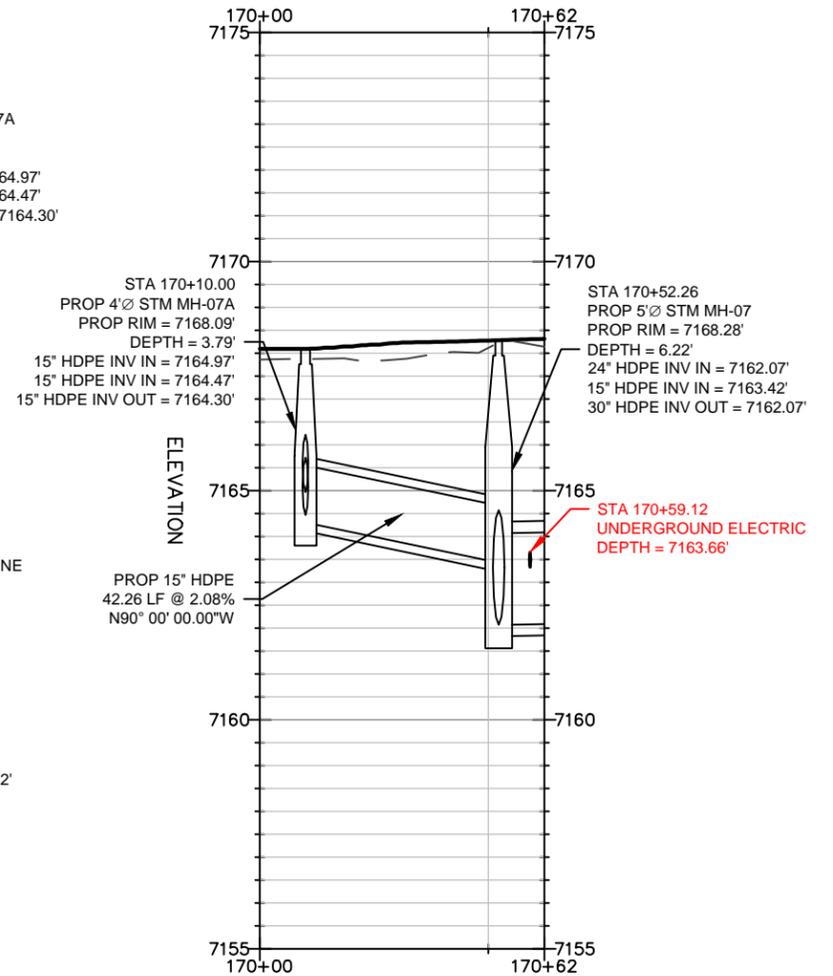
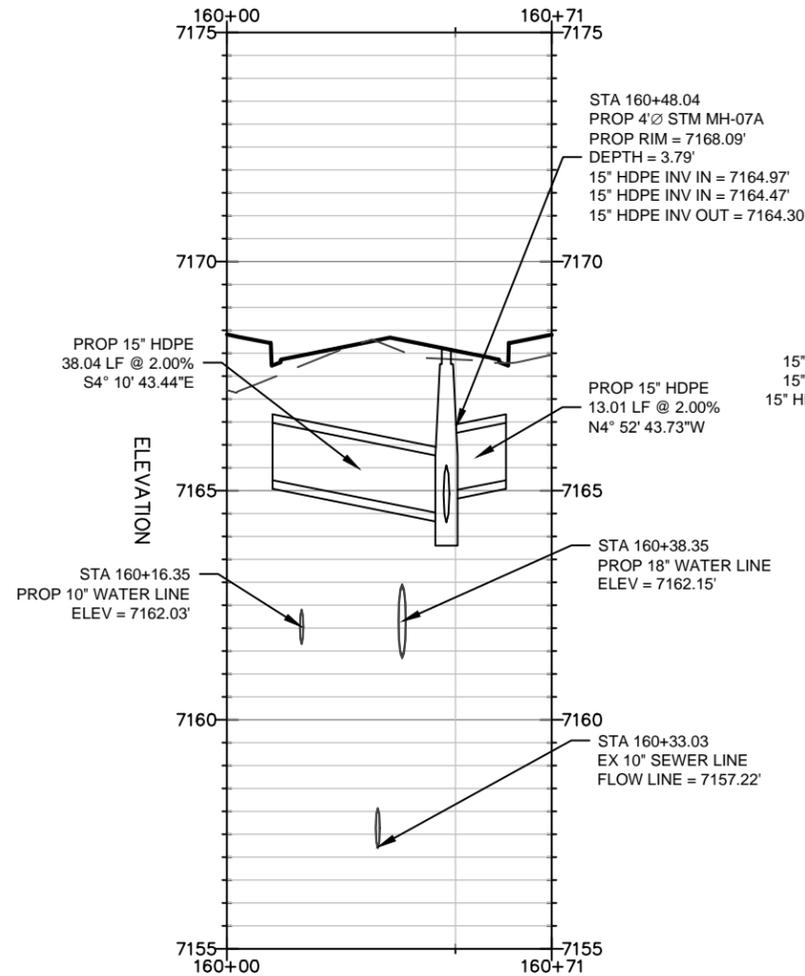
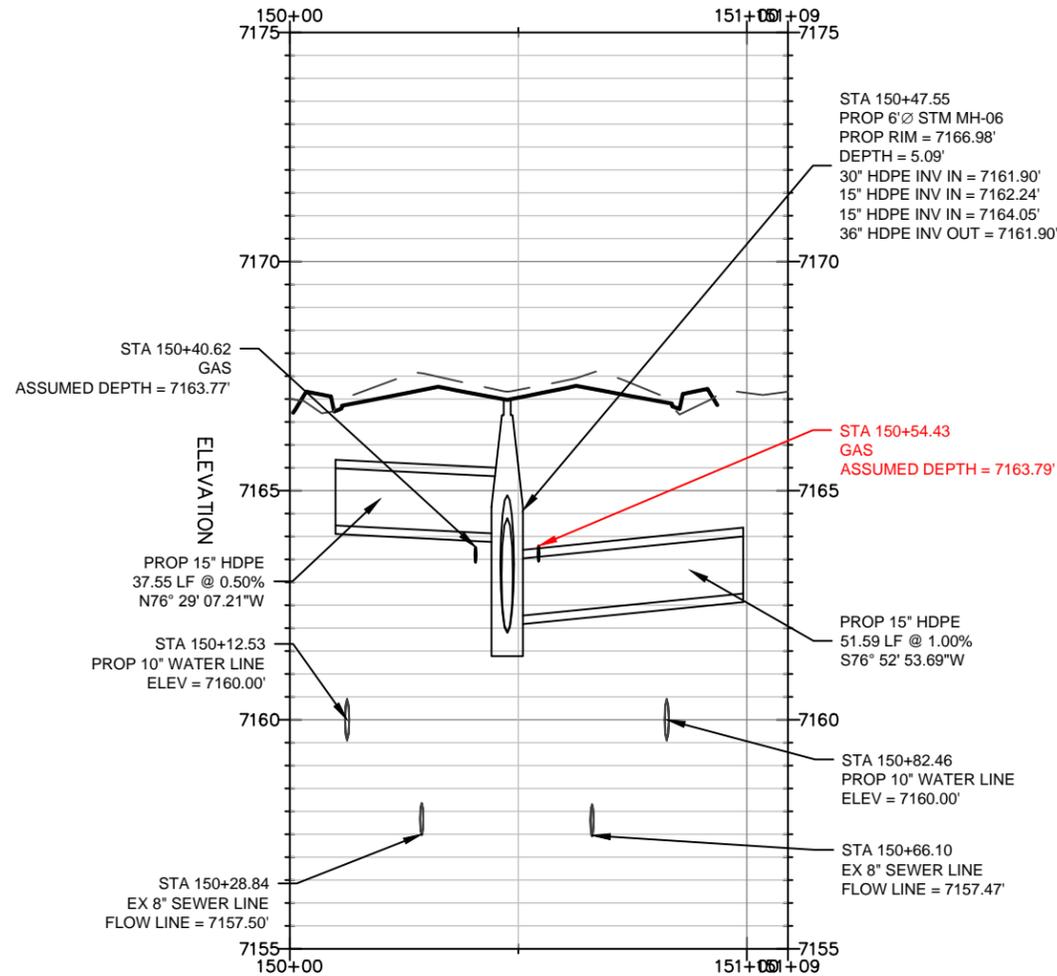
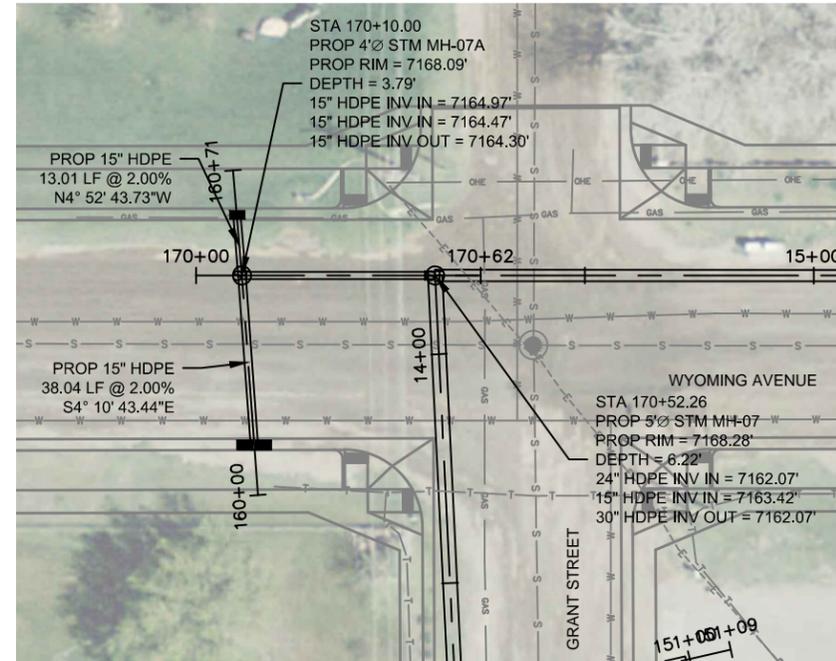
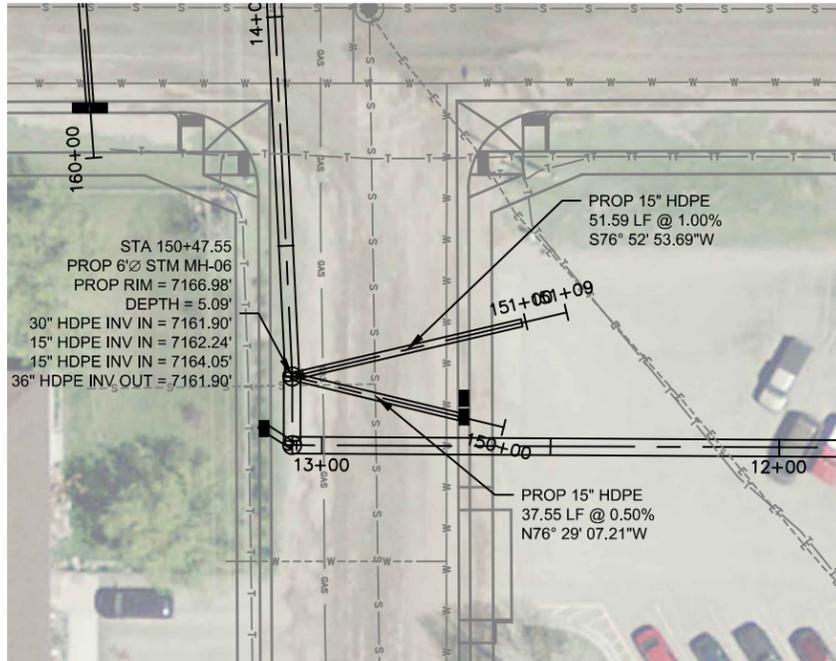
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CONTACT: ERIC JAAP



NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

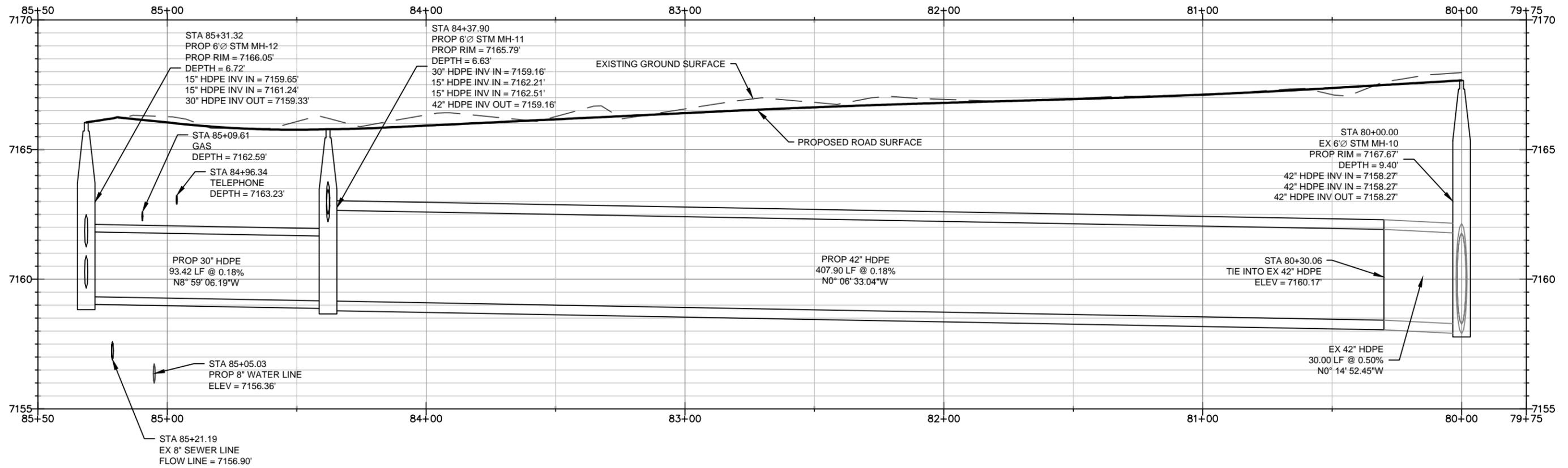
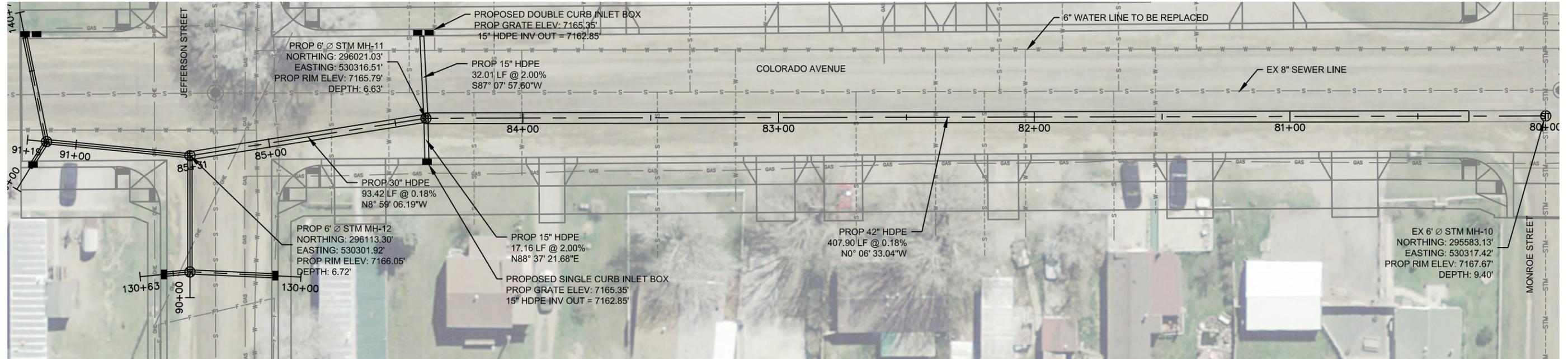
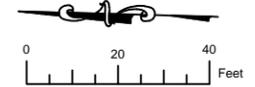
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

STORM SEWER PLAN AND PROFILE
WYOMING - GRANT INTERSECTION
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- PROP STORM SEWER
- S — S — S — EX SANITARY SEWER
- W — W — W — EX WATER
- - - STM - - - STM - - - EX STORM SEWER
- F — F — F — EX FIBER OPTIC
- OHE — EX OVERHEAD POWER
- GAS — EX GAS
- T — T — T — EX TELEPHONE

- ⊕ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

NOTE:
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NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016
2	REVISED CONSTRUCTION PLAN SET	MAY 2016
PROJECT NO.		32710207
CITY		LARAMIE
COUNTY		ALBANY
STATE		WYOMING
DESIGNED BY		RED
CHECKED BY		AGM

STORM SEWER PLAN AND PROFILE
COLORADO - MONROE TO JEFFERSON
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- S—S—S— PROP STORM SEWER
- W—W—W— EX SANITARY SEWER
- W—W—W— EX WATER
- STM---STM--- EX STORM SEWER
- F—F—F— EX FIBER OPTIC
- OHE— EX OVERHEAD POWER
- GAS— EX GAS
- T—T—T— EX TELEPHONE

- ⊕ PROP STORM SEWER MANHOLE
- ⊙ EX SANITARY SEWER MANHOLE

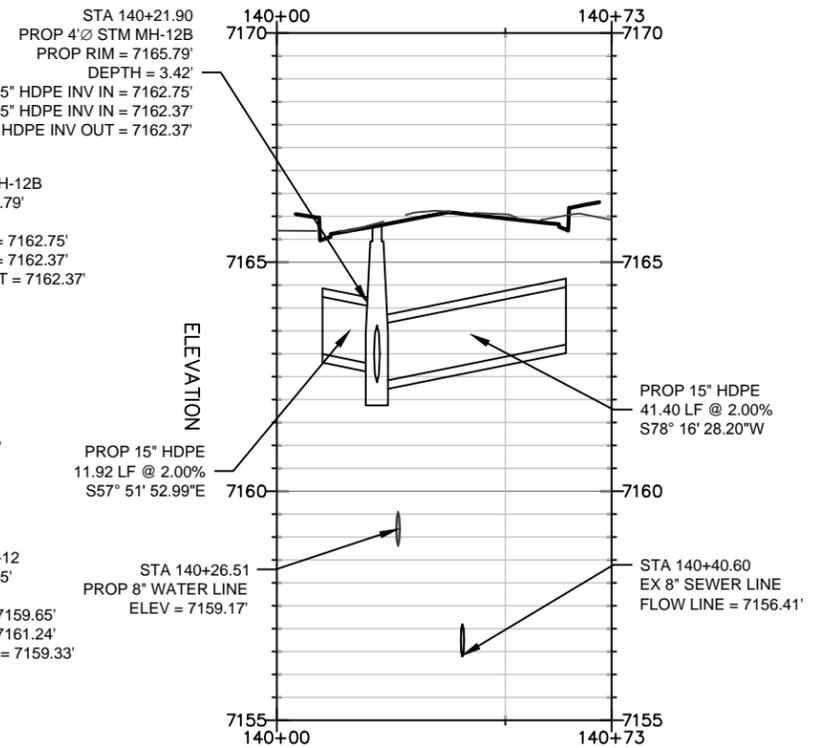
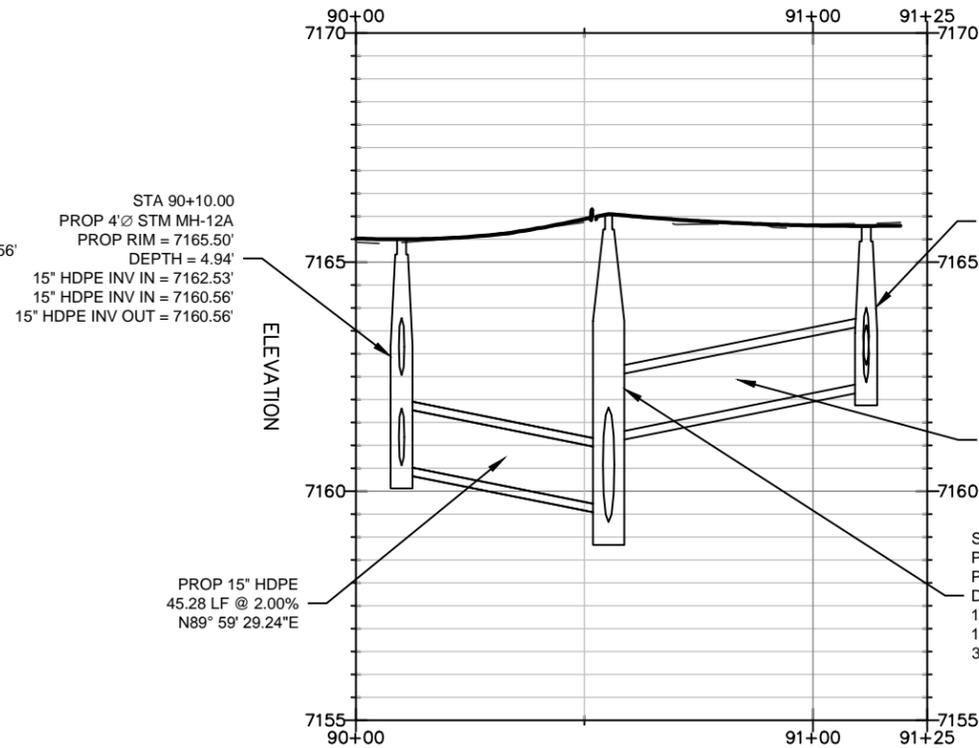
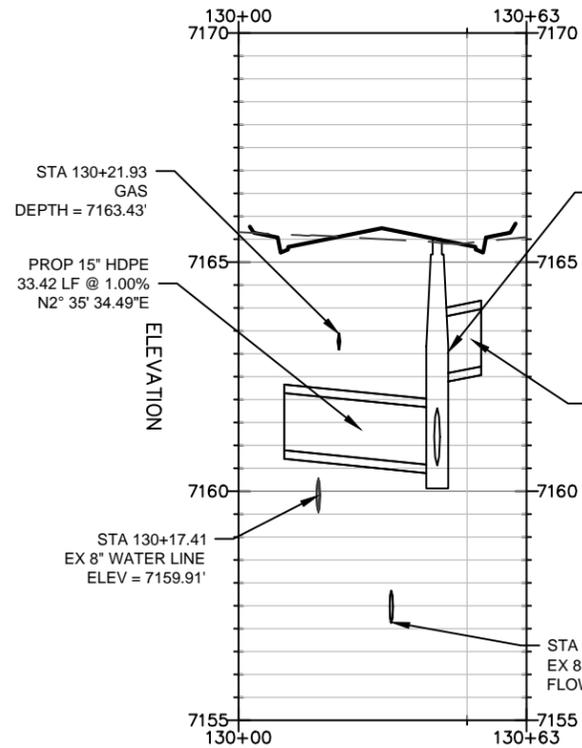
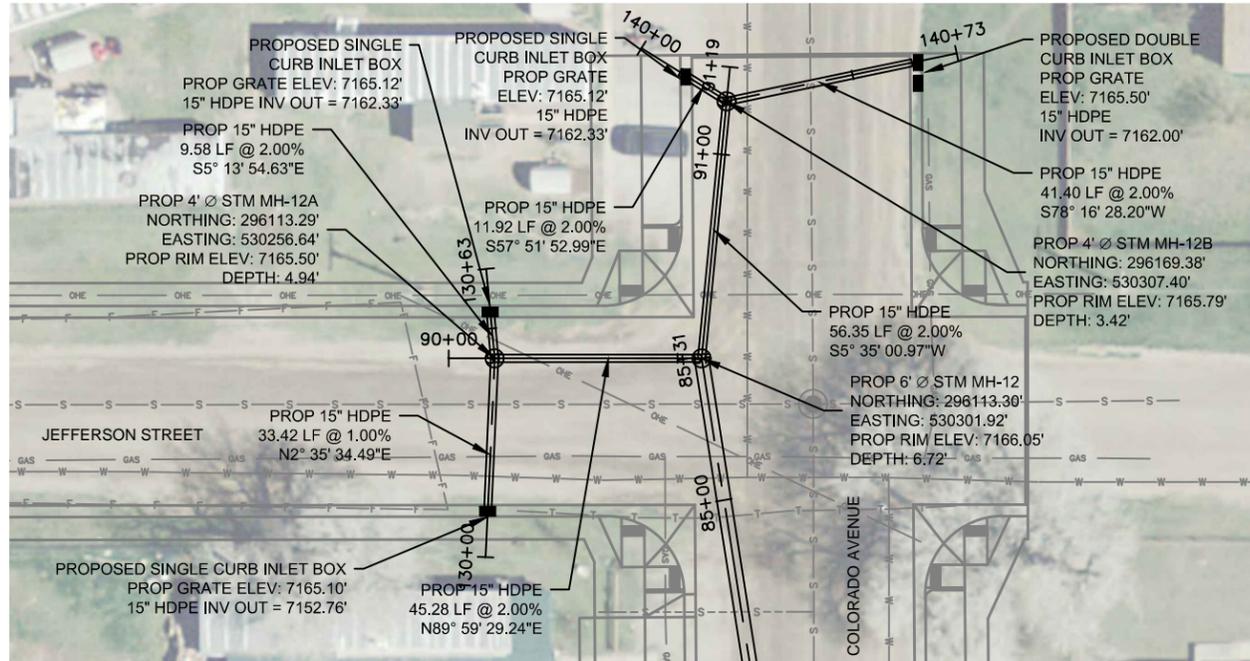
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

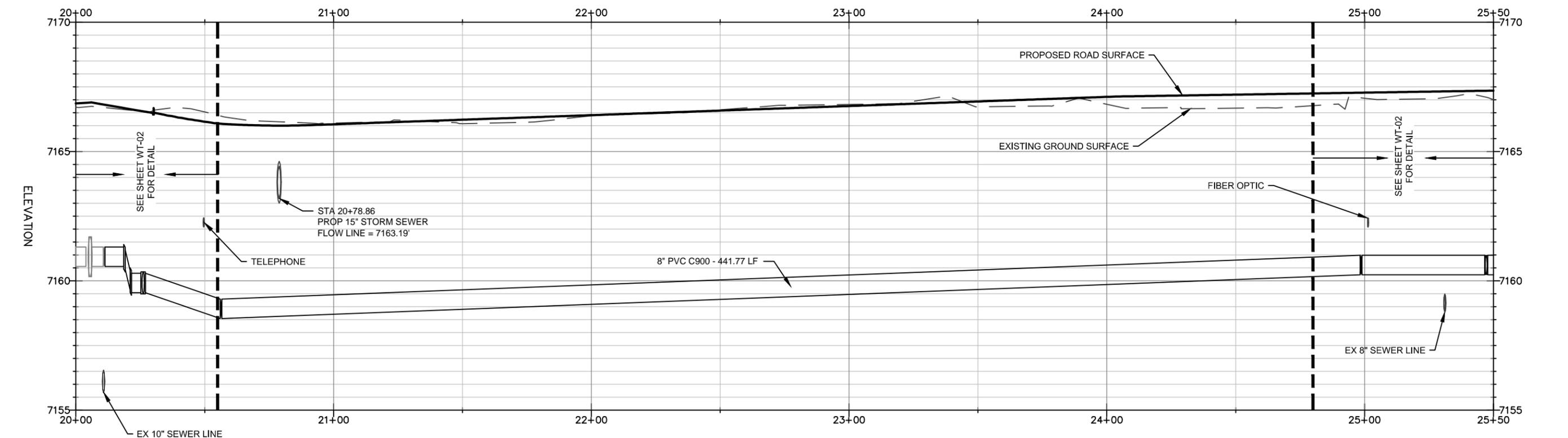
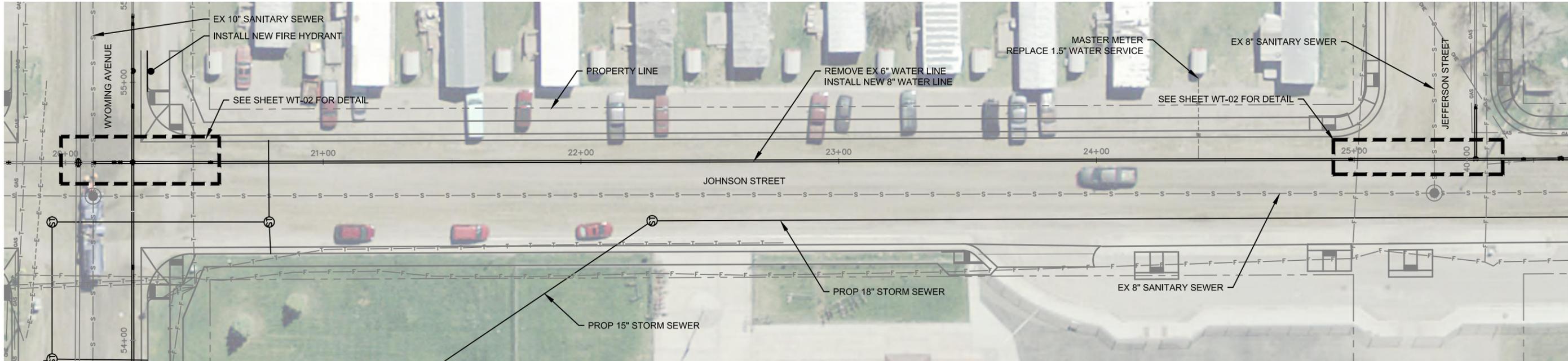
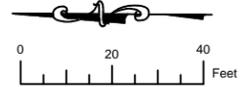
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

STORM SEWER PLAN AND PROFILE
COLORADO - MONROE TO JEFFERSON
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM-STM- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE- EXISTING OVERHEAD POWER
- GAS- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

NOTE:
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 3. ALL WATER SERVICE LINES CROSSING STORM SEWER SHALL BE INSULATED.



NOTE:
 MAXIMUM DEFLECTION BETWEEN FITTINGS SHALL BE NO GREATER THAN 5°



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NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016
2	REVISED CONSTRUCTION PLAN SET	MAY 2016

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
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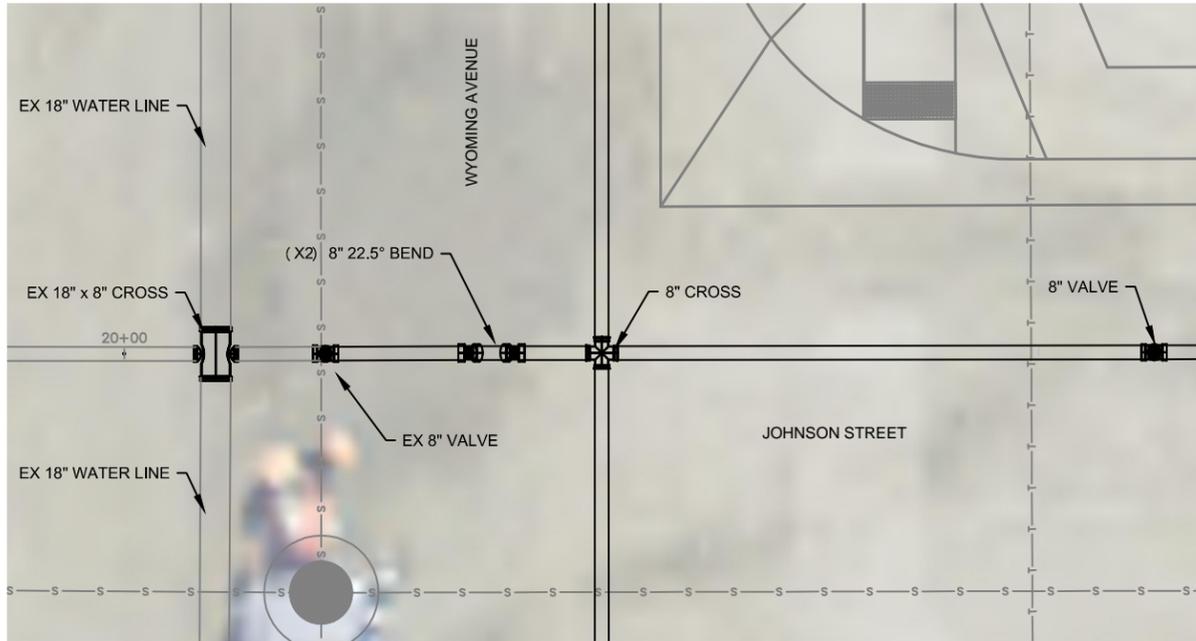
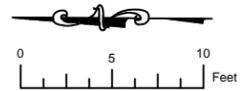
WATER LINE PLAN AND PROFILE
 JOHNSON - WYOMING TO JEFFERSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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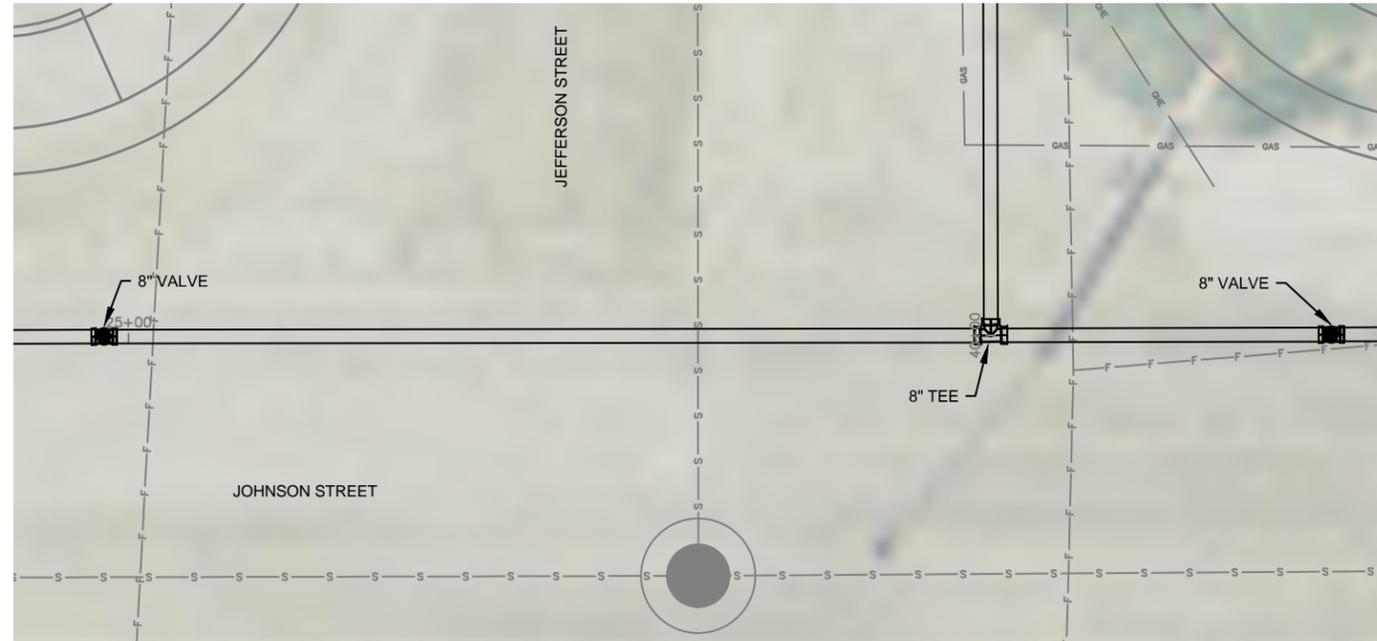
- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- - - - - EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE--- EXISTING OVERHEAD POWER
- GAS--- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

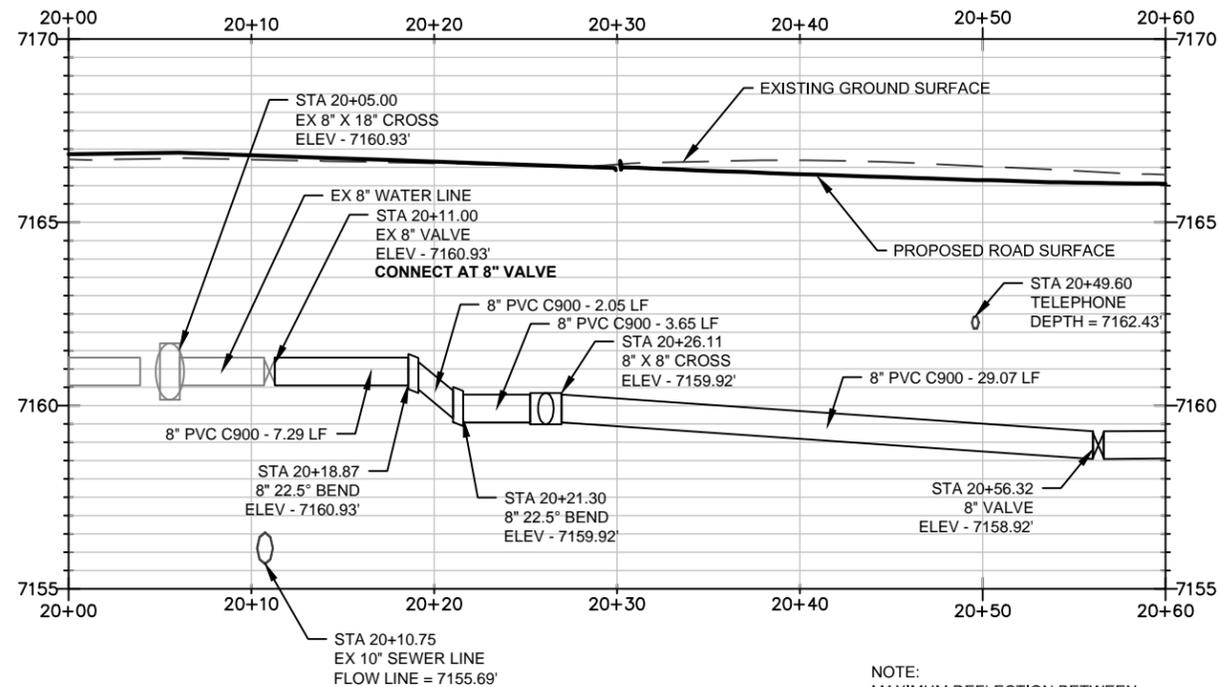
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JOHNSON AND WYOMING



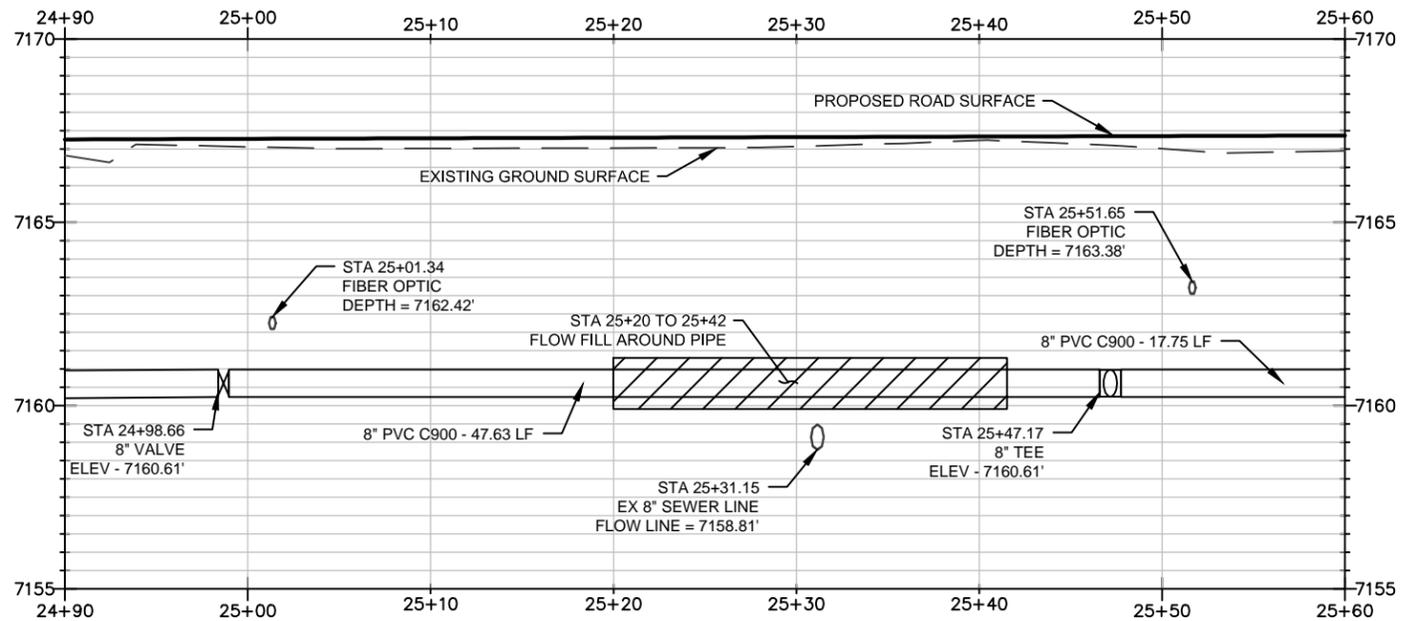
JOHNSON AND JEFFERSON



ELEVATION



NOTE:
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

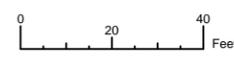
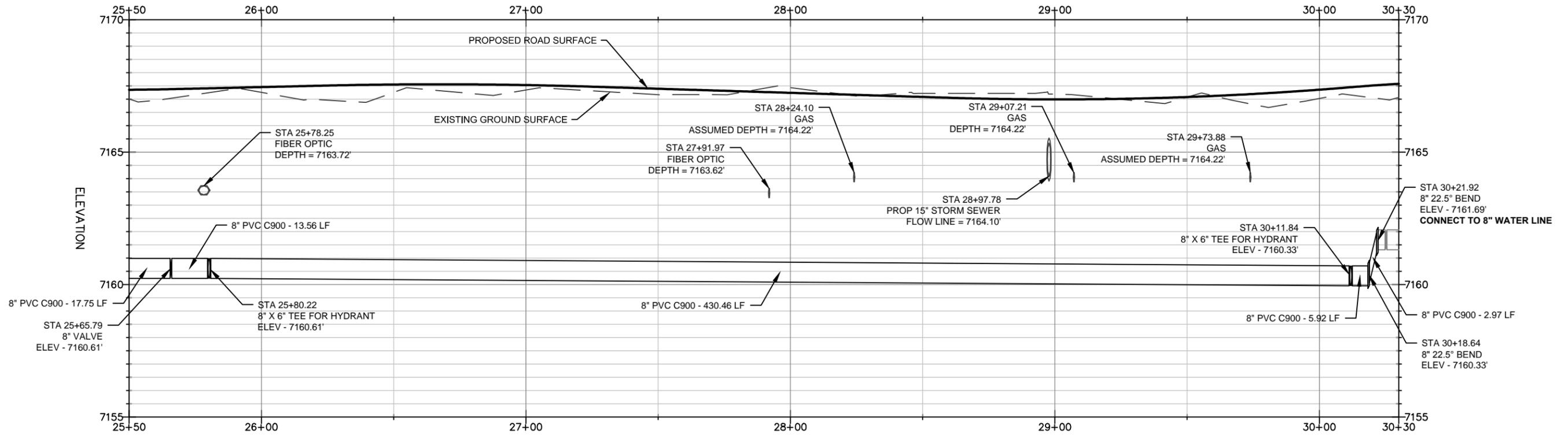
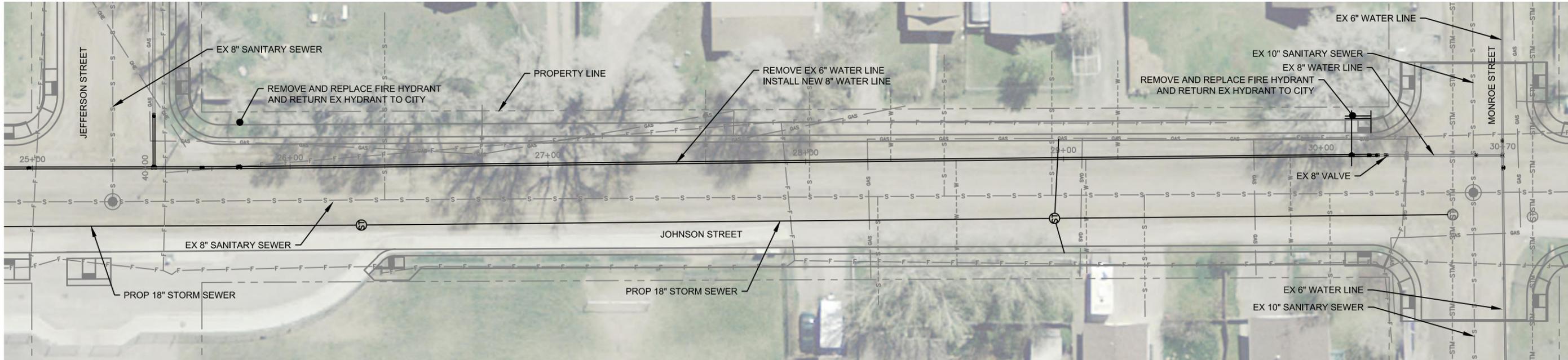
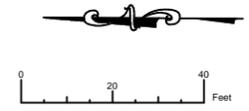
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE - DETAIL
 JOHNSON - WYOMING TO JEFFERSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM-STM- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE- EXISTING OVERHEAD POWER
- GAS- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

NOTE:
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DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
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WATER LINE PLAN AND PROFILE
 JOHNSON - JEFFERSON TO MONROE
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
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- ===== EXISTING WATER

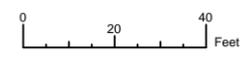
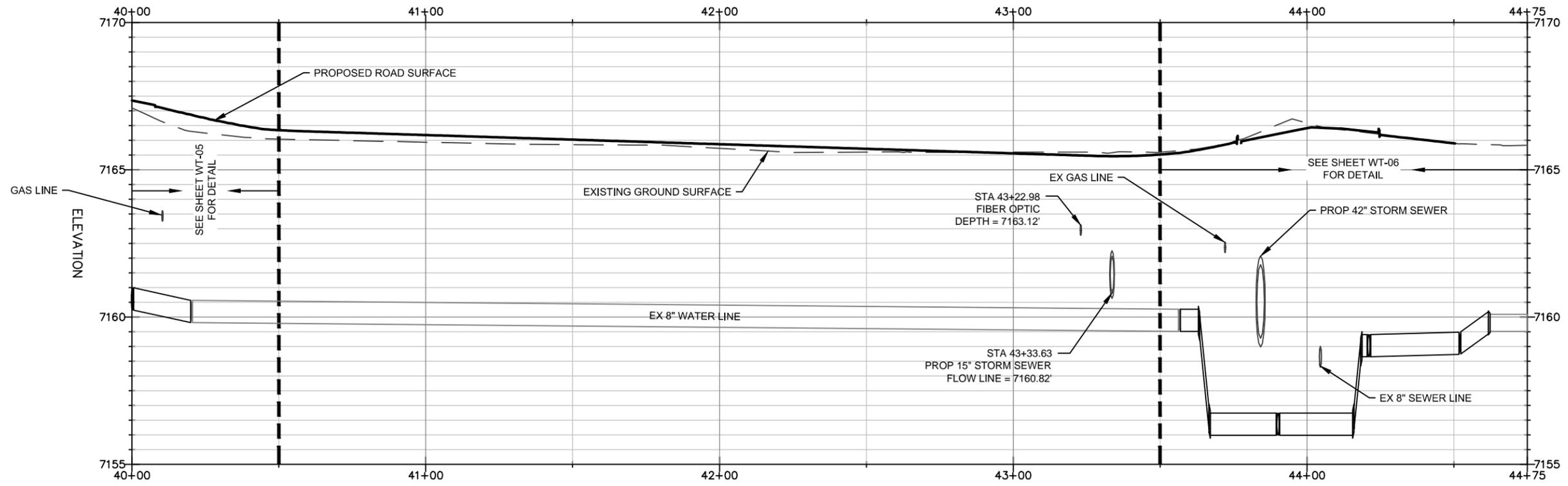
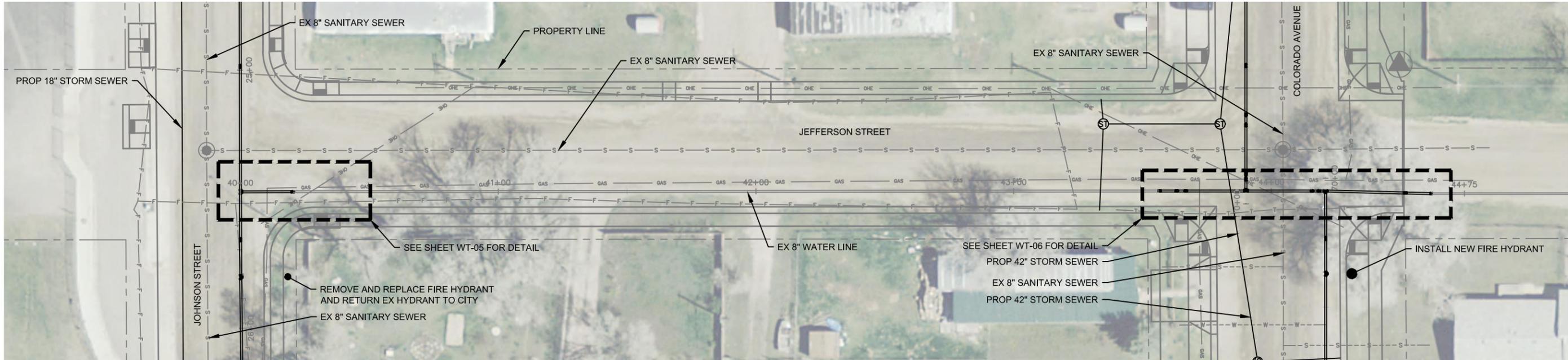
- (S) PROPOSED STORM SEWER MANHOLE
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NOTE:
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
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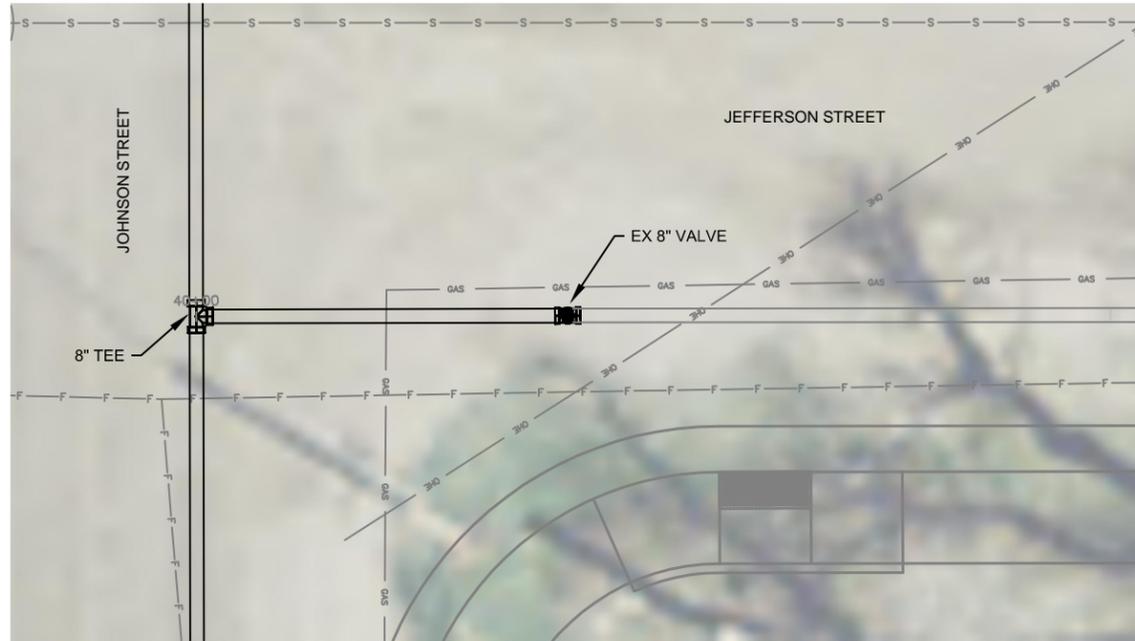
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
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WATER LINE PLAN AND PROFILE
 JEFFERSON - JOHNSON TO COLORADO
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

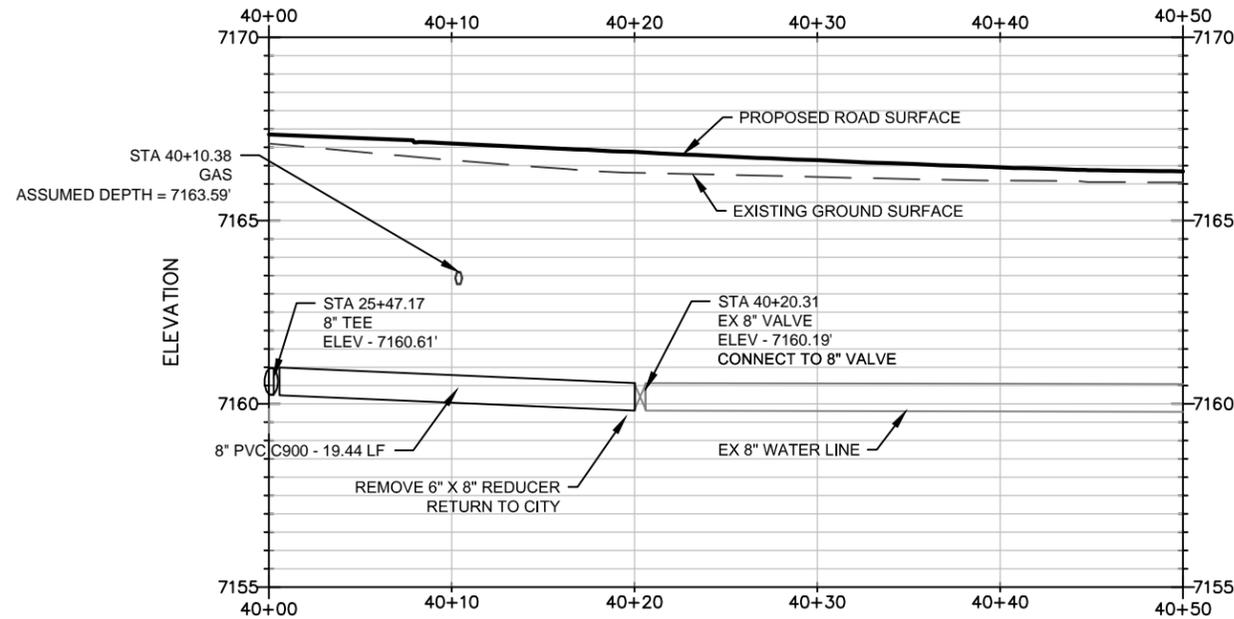
- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
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JEFFERSON AND JOHNSON



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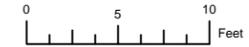
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CITY	LARAMIE
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WATER LINE PLAN AND PROFILE - DETAIL
JEFFERSON - JOHNSON TO COLORADO
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

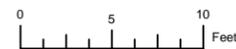
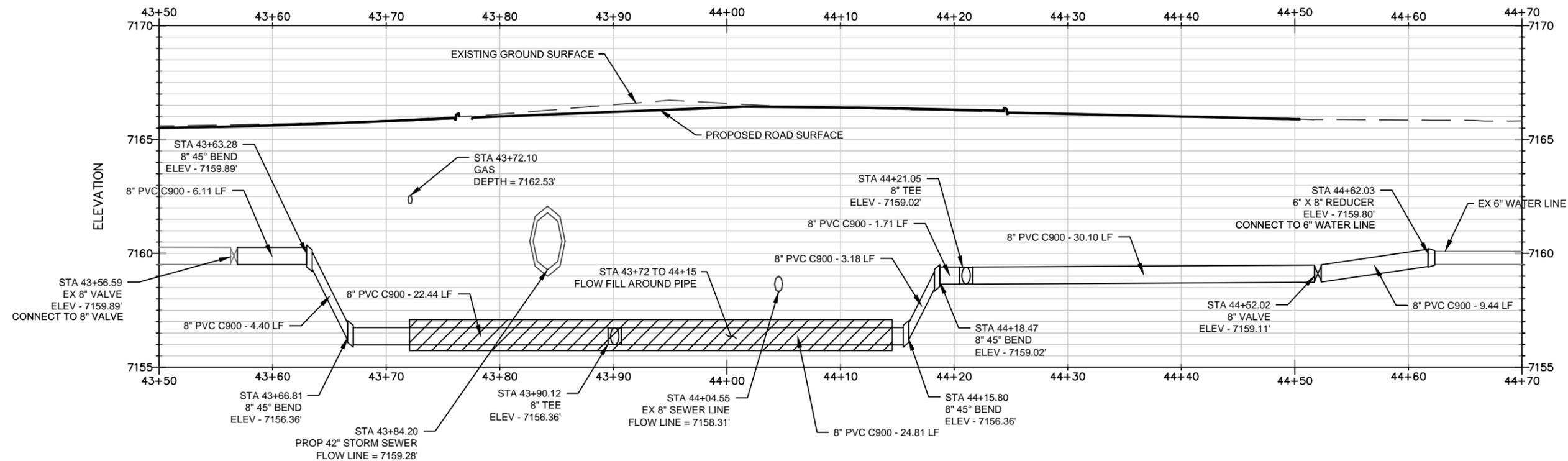
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JEFFERSON AND COLORADO



NOTE:
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PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
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DATE	MAY 2016
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WATER LINE PLAN AND PROFILE - DETAIL
JEFFERSON - JOHNSON TO COLORADO
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM-STM- EXISTING STORM SEWER
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- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

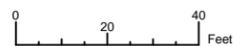
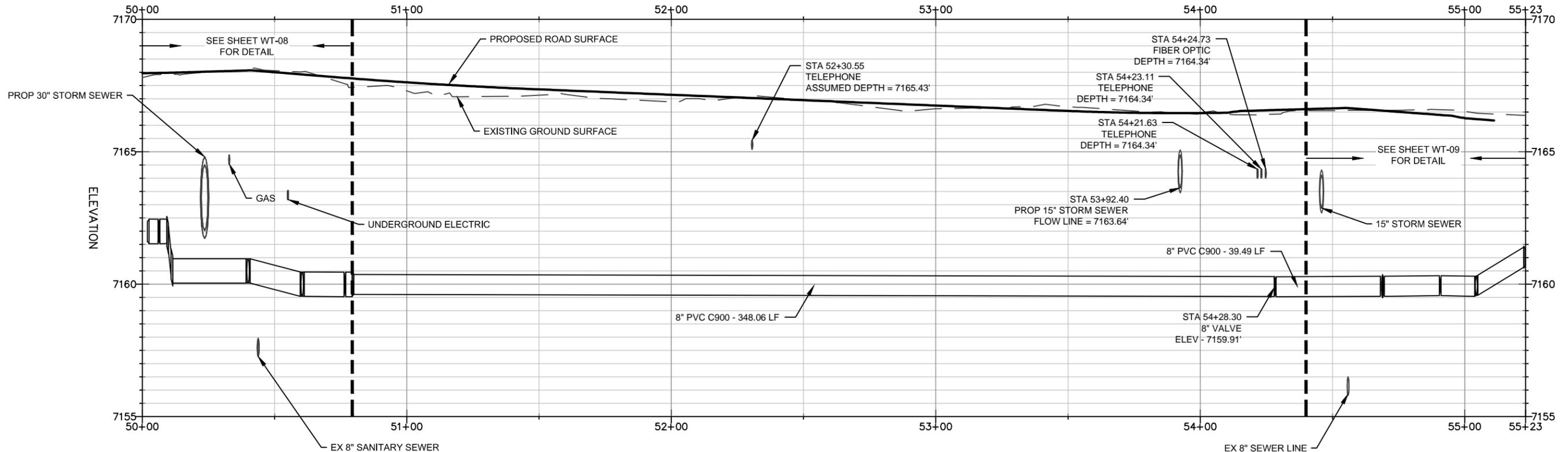
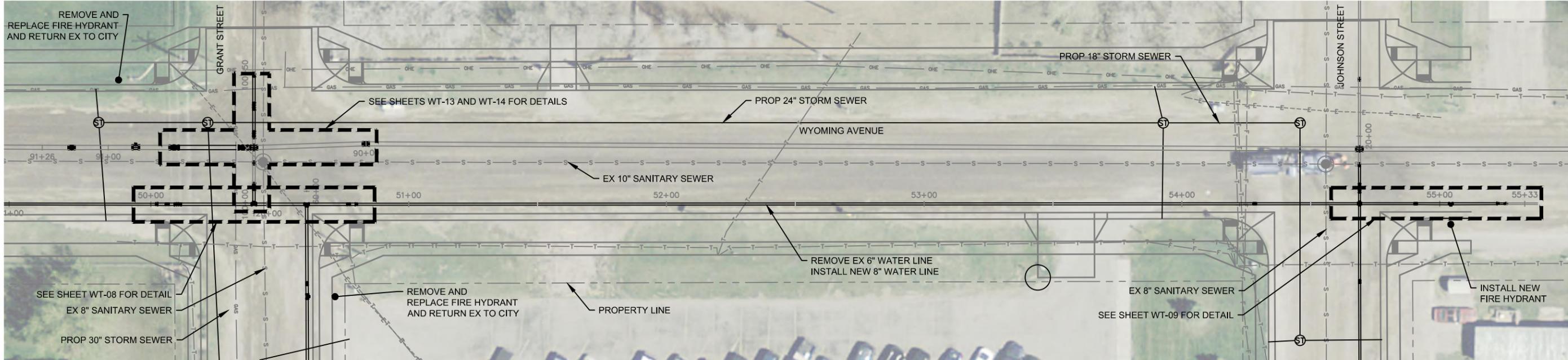
NOTE:
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 2. ALL WATER AND SEWER SERVICE LINES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH.
 3. ALL WATER SERVICE LINES CROSSING STORM SEWER SHALL BE INSULATED.



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 CONTACT: ERIC JAAP



NOTE:
 MAXIMUM DEFLECTION BETWEEN FITTINGS SHALL BE NO GREATER THAN 5°

P:\32710207 Linford School Drainage\0-CAD\CAD\SheetFiles\C-PR-WATER PROPOSED.dwg

NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016
2	REVISED CONSTRUCTION PLAN SET	MAY 2016

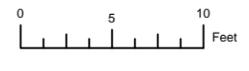
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
 WYOMING - GRANT TO JOHNSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE--- EXISTING OVERHEAD POWER
- GAS--- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

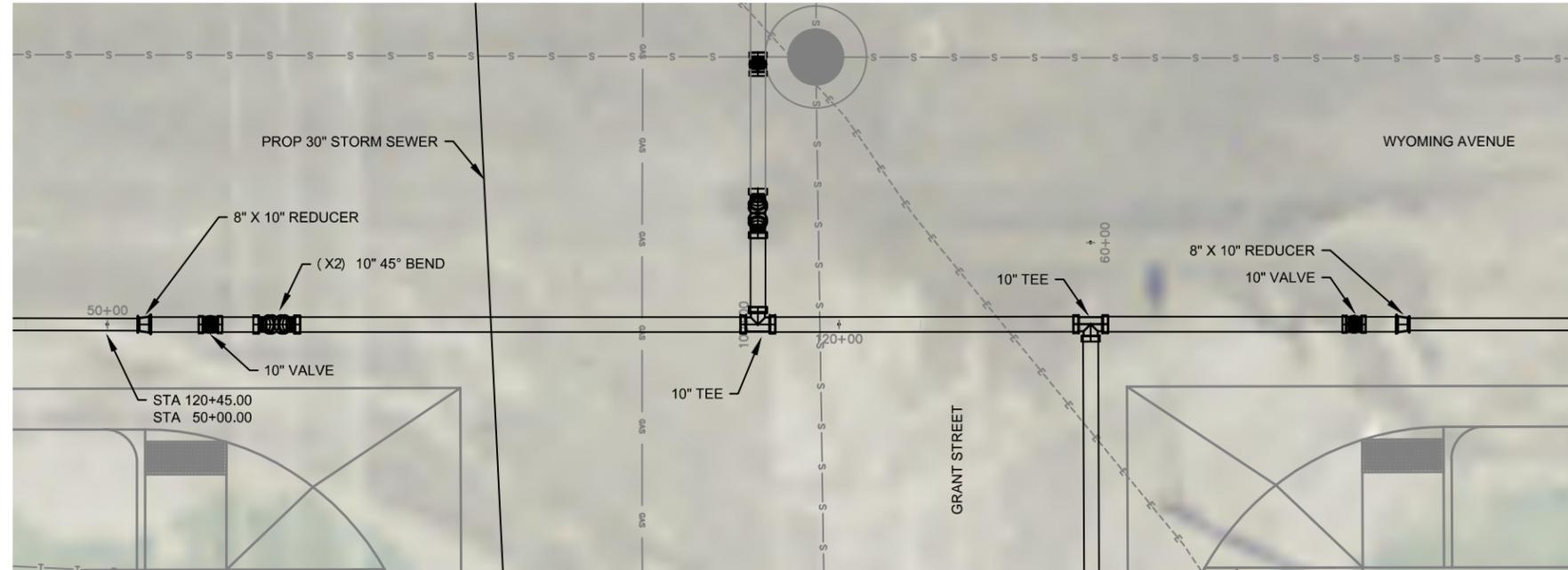
- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

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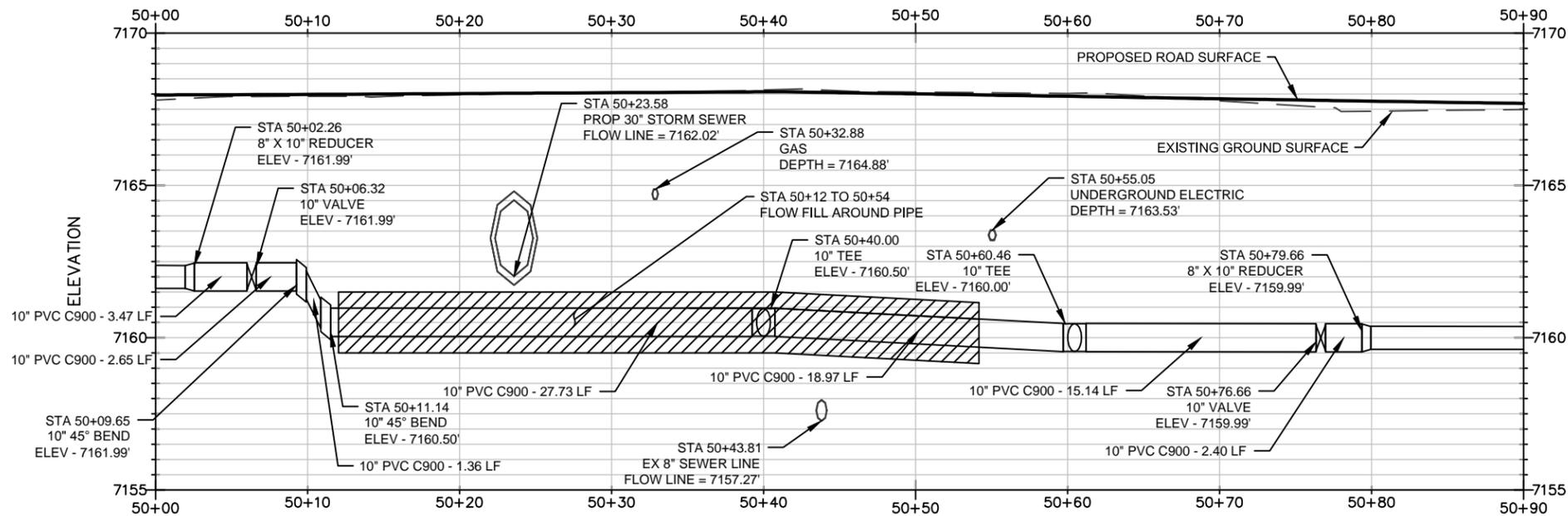


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WYOMING AND GRANT



NOTE:
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 FITTINGS SHALL BE NO GREATER THAN 5°

P:\32710207 Linford School Drainage\DWG\CAD\CAD\SheetFiles\C-PR-WATER PROPOSED.dwg

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE - DETAIL
 WYOMING - GRANT TO JOHNSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE- EXISTING OVERHEAD POWER
- GAS- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

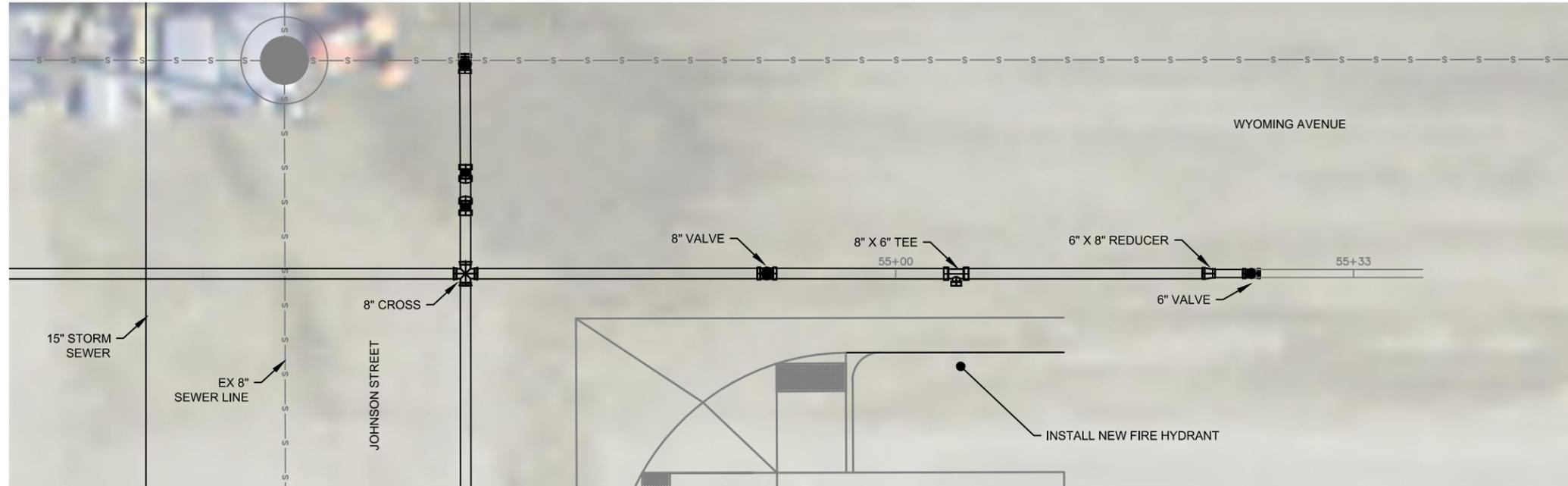
NOTE:
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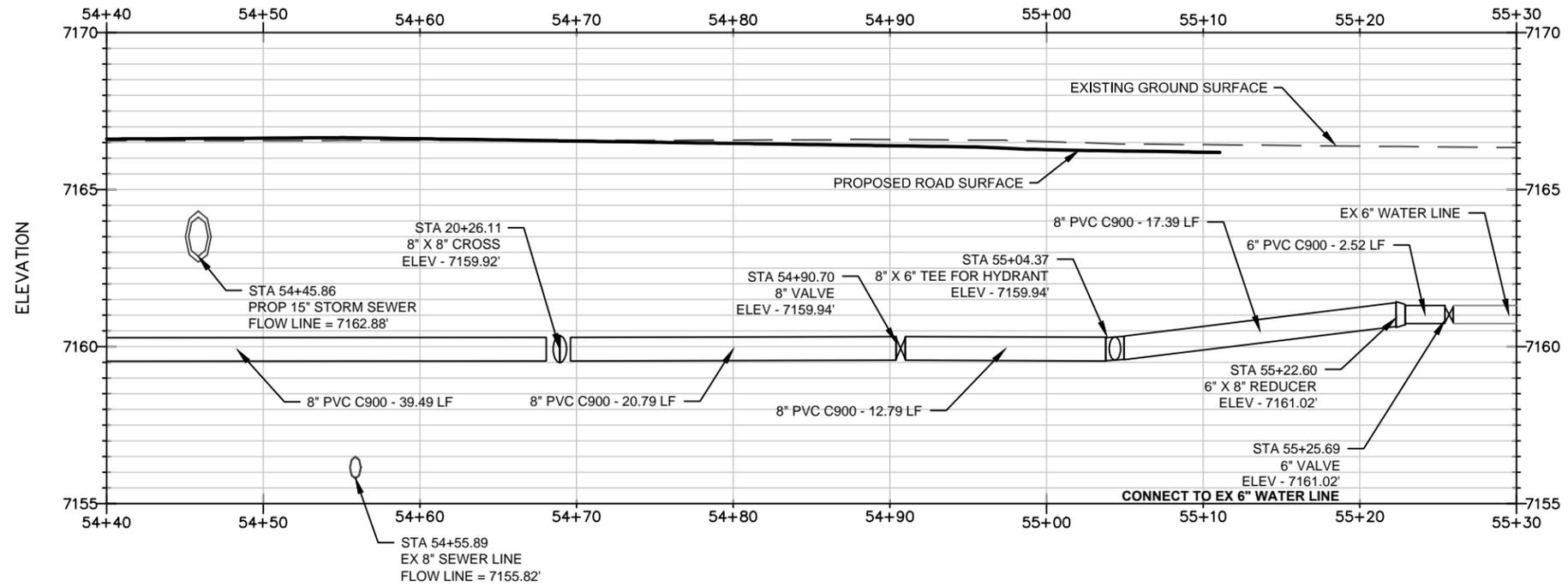
PREPARED BY

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WYOMING AND JOHNSON



NOTE:
 MAXIMUM DEFLECTION BETWEEN FITTINGS SHALL BE NO GREATER THAN 5°

P:\32710207 Linford School Drainage\D-CAD\CAD\SheetFiles\C-PR-WATER PROPOSED.dwg

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

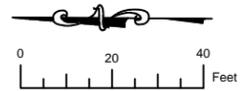
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE - DETAIL
 WYOMING - GRANT TO JOHNSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
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- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

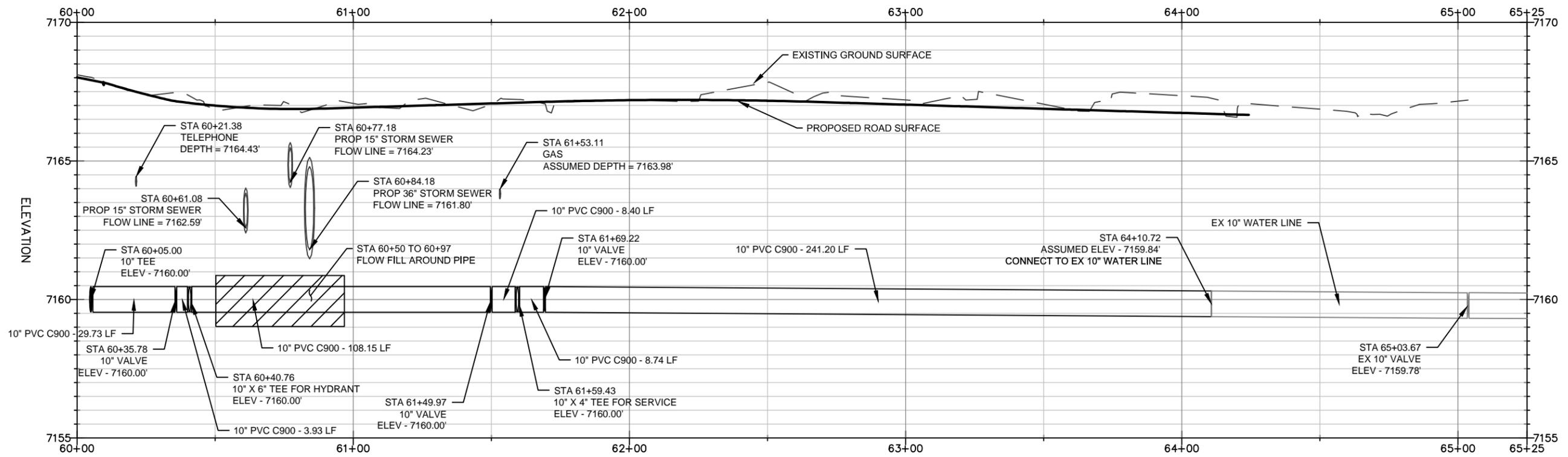
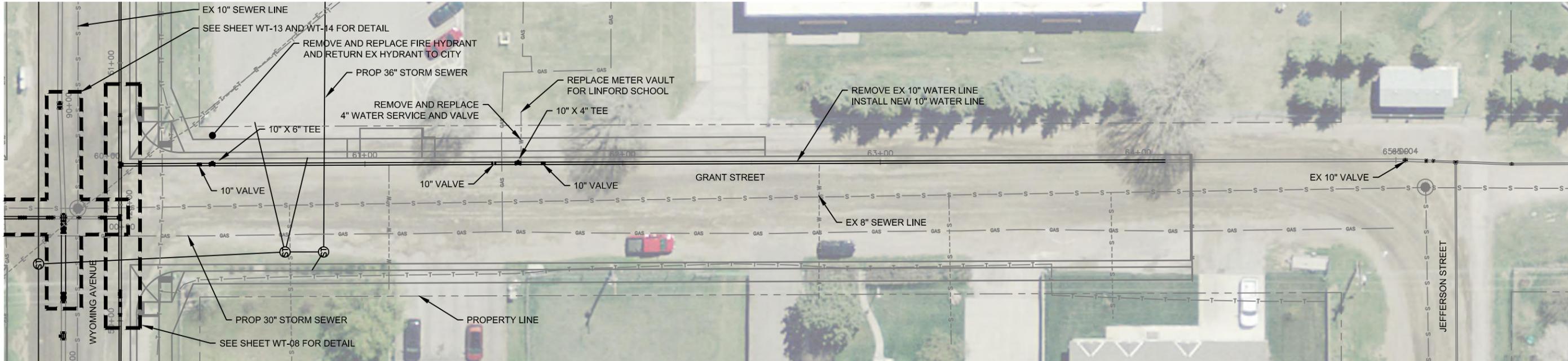
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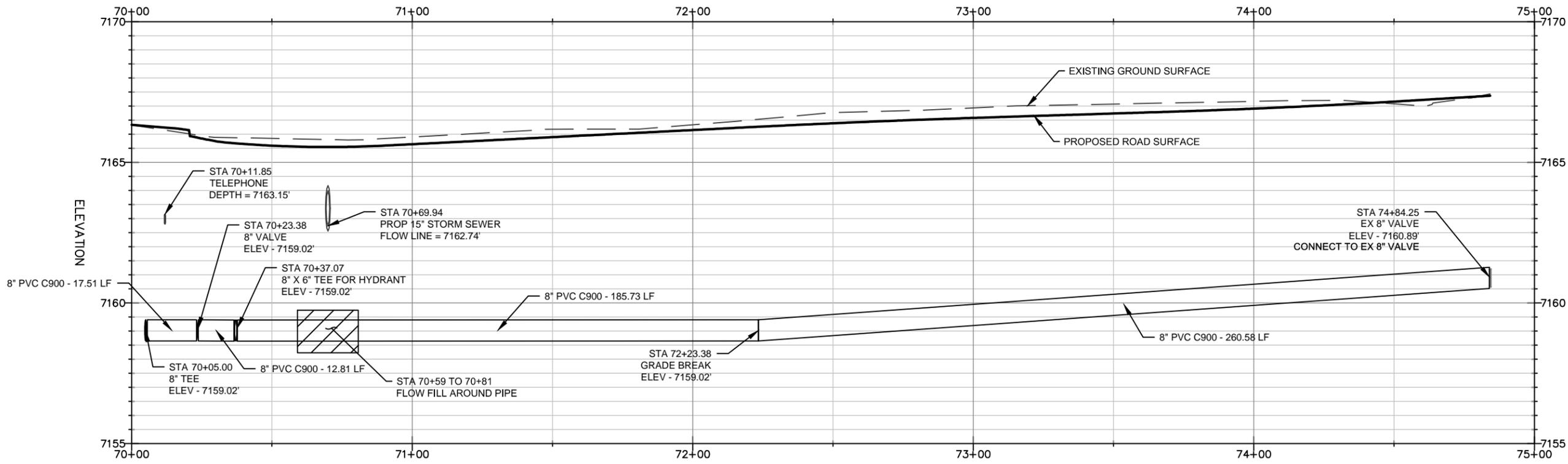
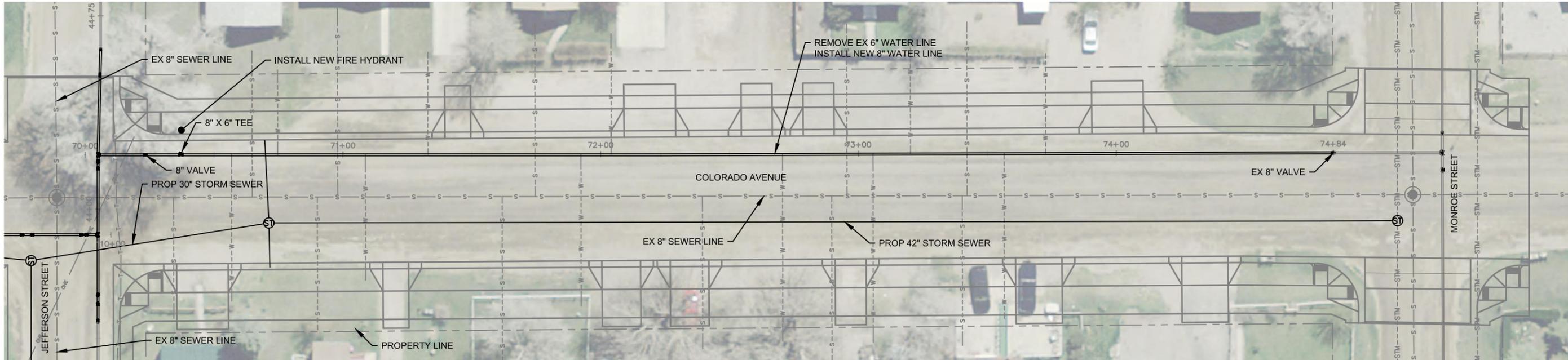
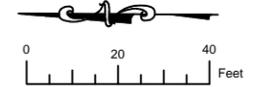
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
 GRANT - WYOMING TO JEFFERSON
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE- EXISTING OVERHEAD POWER
- GAS- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

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 PO BOX C
 LARAMIE, WY 82073
 CONTACT: ERIC JAAP

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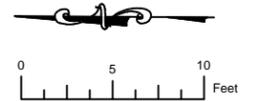
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
 COLORADO - JEFFERSON TO MONROE
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE--- EXISTING OVERHEAD POWER
- GAS--- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

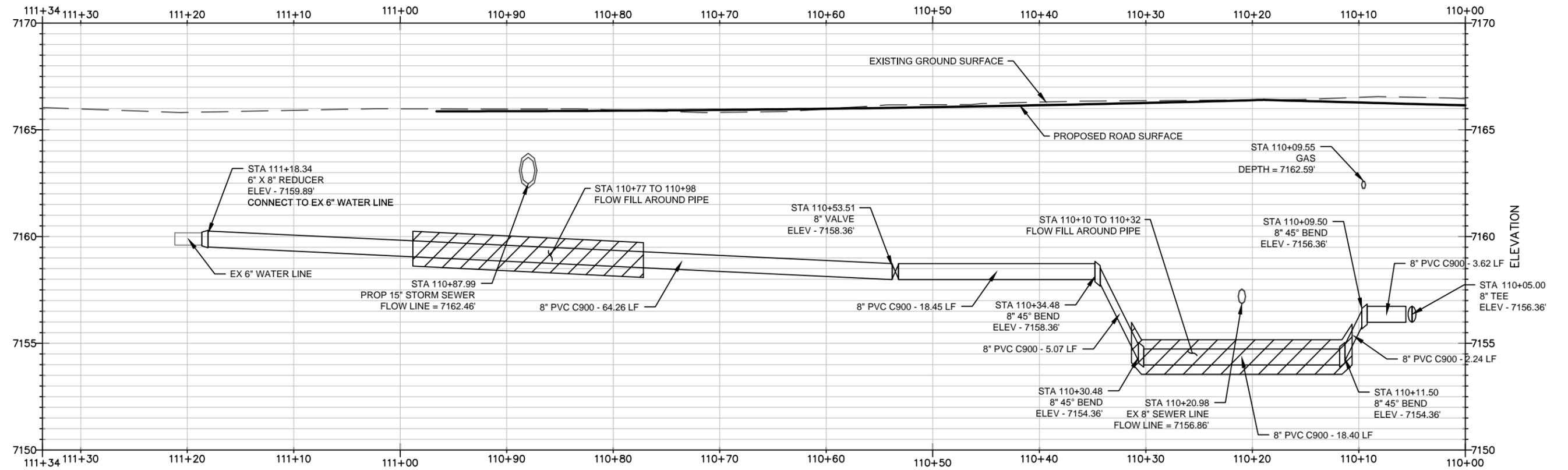
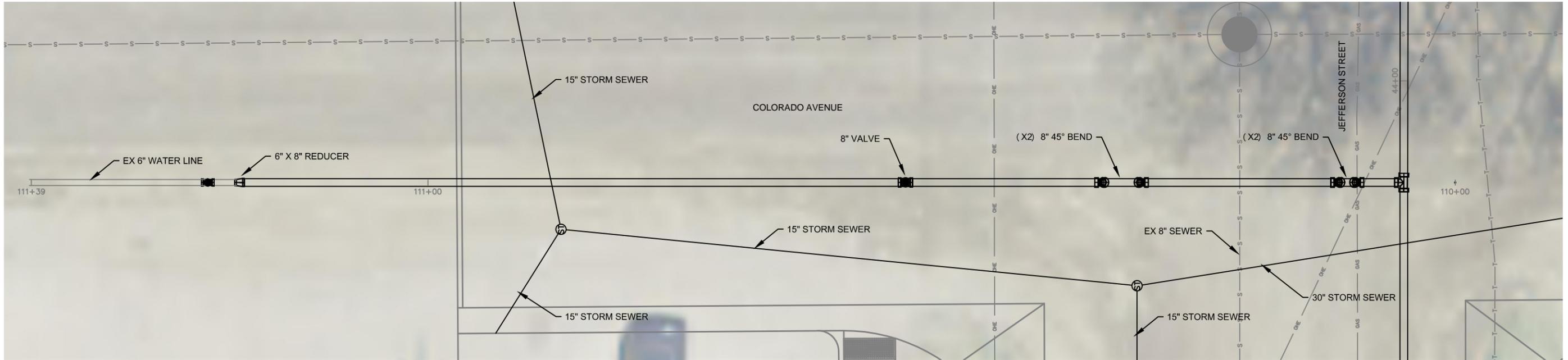
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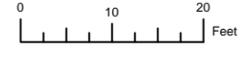
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
COLORADO NORTH
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
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- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

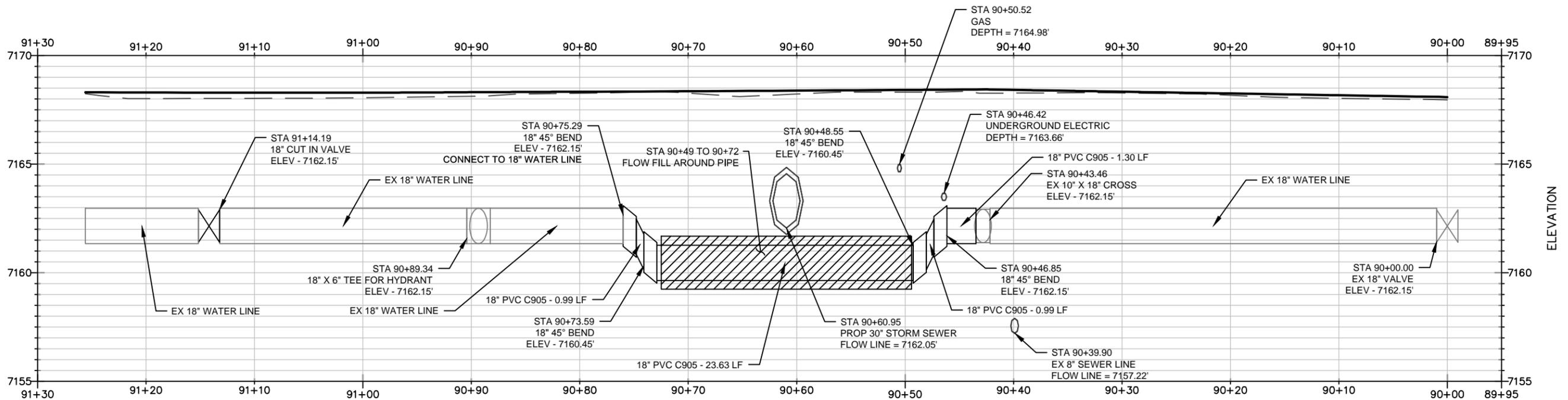
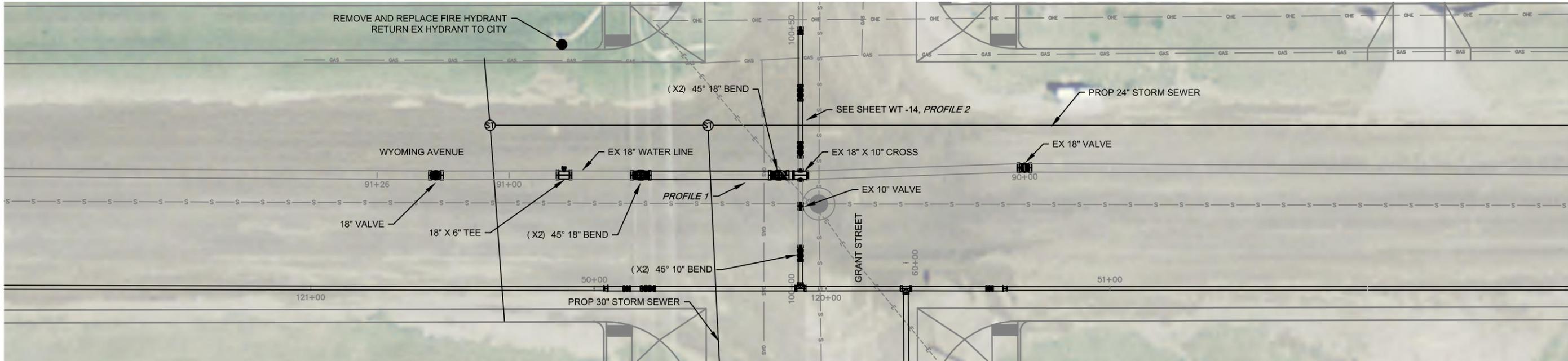
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PROFILE 1



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P:\32710207 Linford_School_Drainage\0-CAD\CAD\SheetFiles\C-PR-WATER PROPOSED.dwg

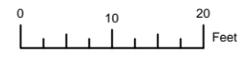
NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
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PROJECT NO.		32710207	
CITY		LARAMIE	
COUNTY		ALBANY	
STATE		WYOMING	
DESIGNED BY		RED	
CHECKED BY		AGM	

WATER LINE PLAN AND PROFILE
 INTERSECTION - GRANT AND WYOMING
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM--STM-- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
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- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE

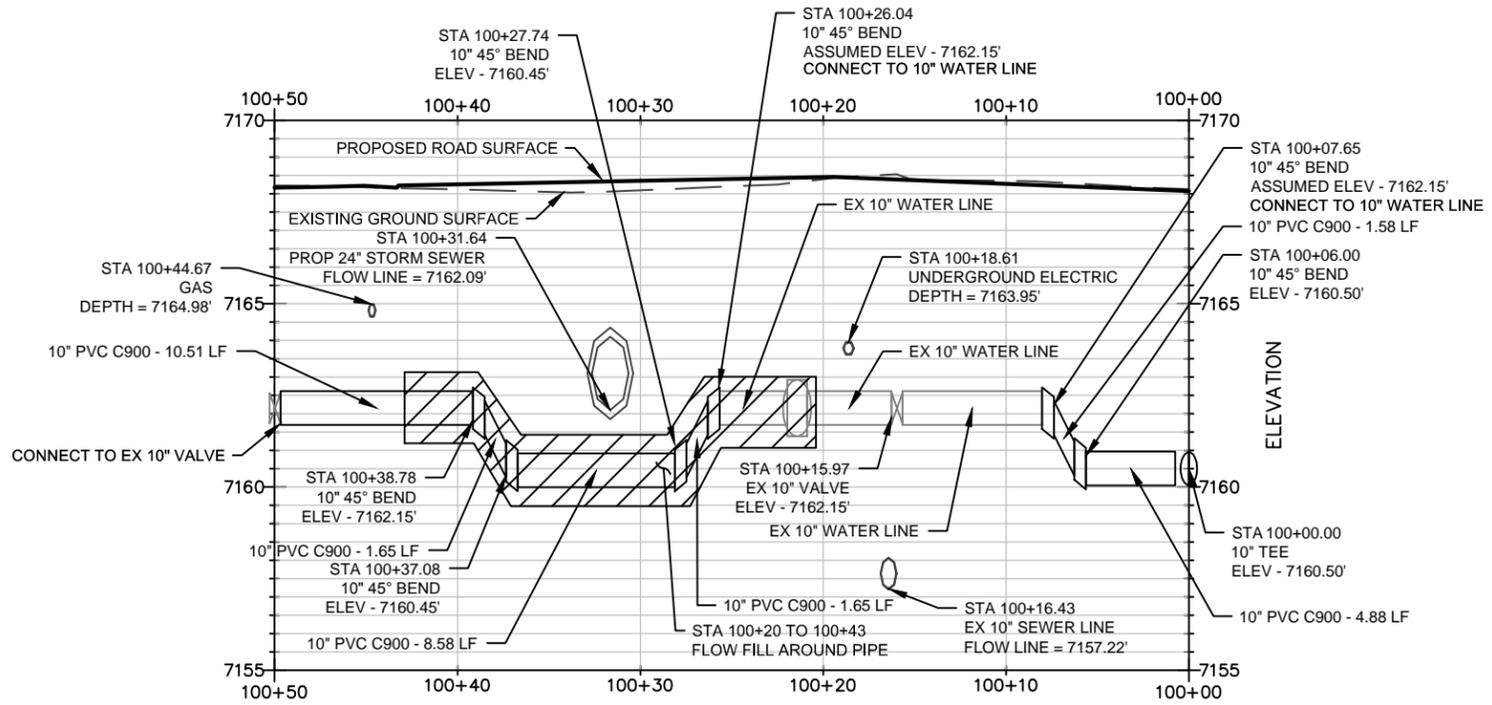
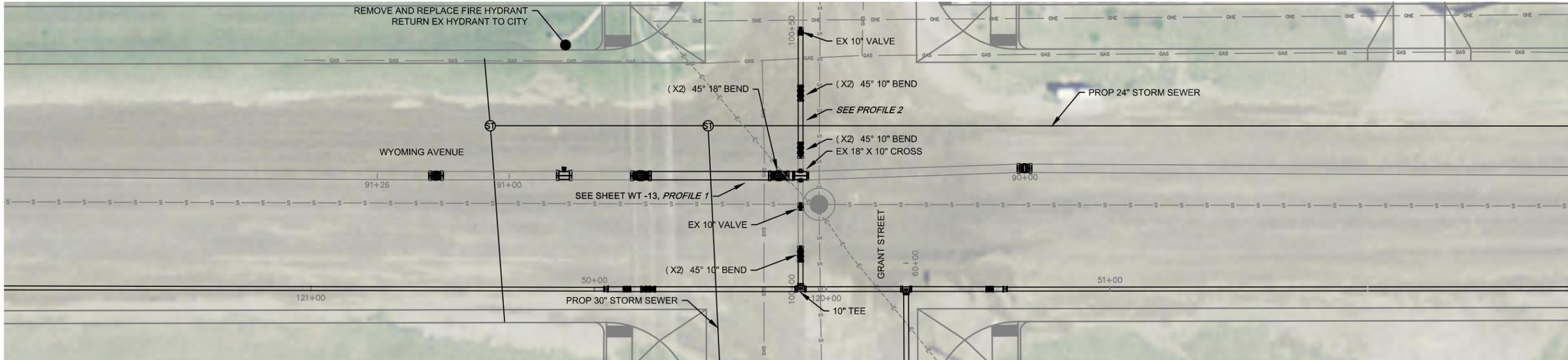
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PROFILE 2



NOTE:
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
INTERSECTION - GRANT AND WYOMING
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

- ===== PROPOSED WATER
- PROPOSED STORM SEWER
- S-S-S- EXISTING SANITARY SEWER
- STM-STM- EXISTING STORM SEWER
- F-F-F- EXISTING FIBER OPTIC
- OHE- EXISTING OVERHEAD POWER
- GAS- EXISTING GAS
- T-T-T- EXISTING TELEPHONE
- ===== EXISTING WATER

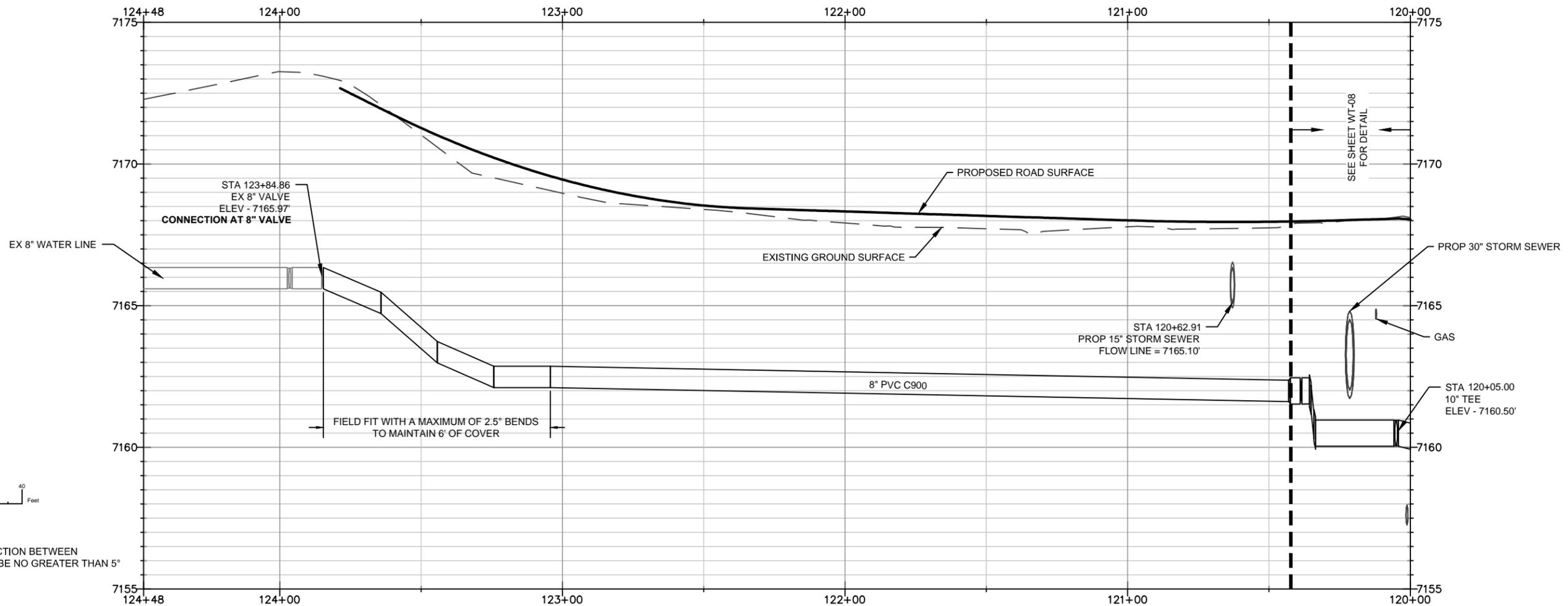
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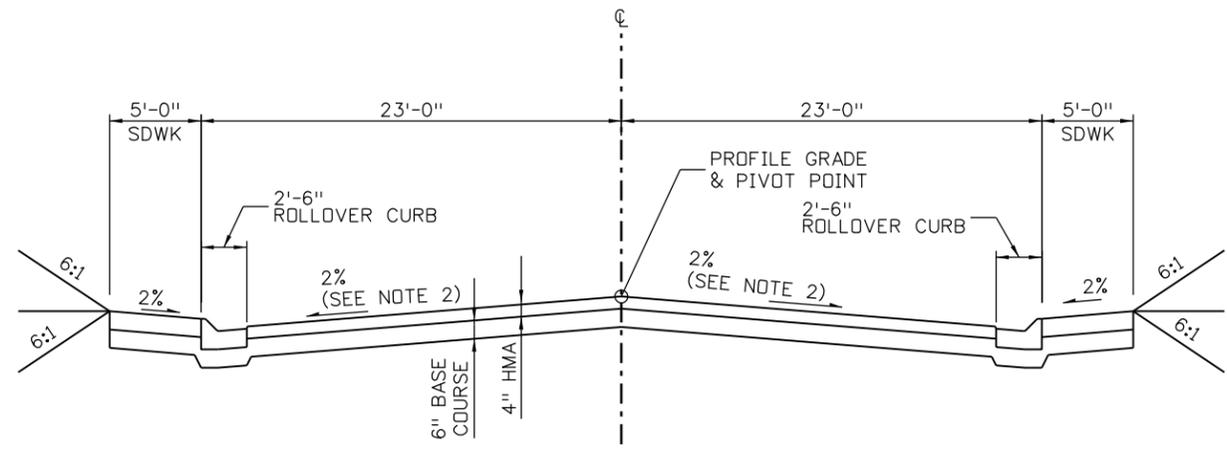


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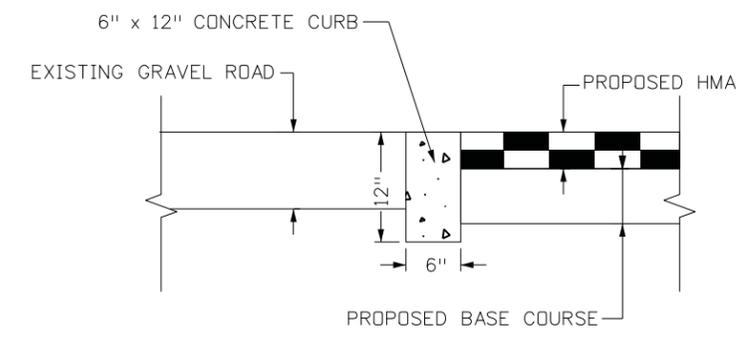
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

WATER LINE PLAN AND PROFILE
 WYOMING - GRANT TO SNOWY RANGE
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.



LOCAL STREET
(GRANT ST, JEFFERSON ST,
JOHNSON ST, AND MONROE ST.)

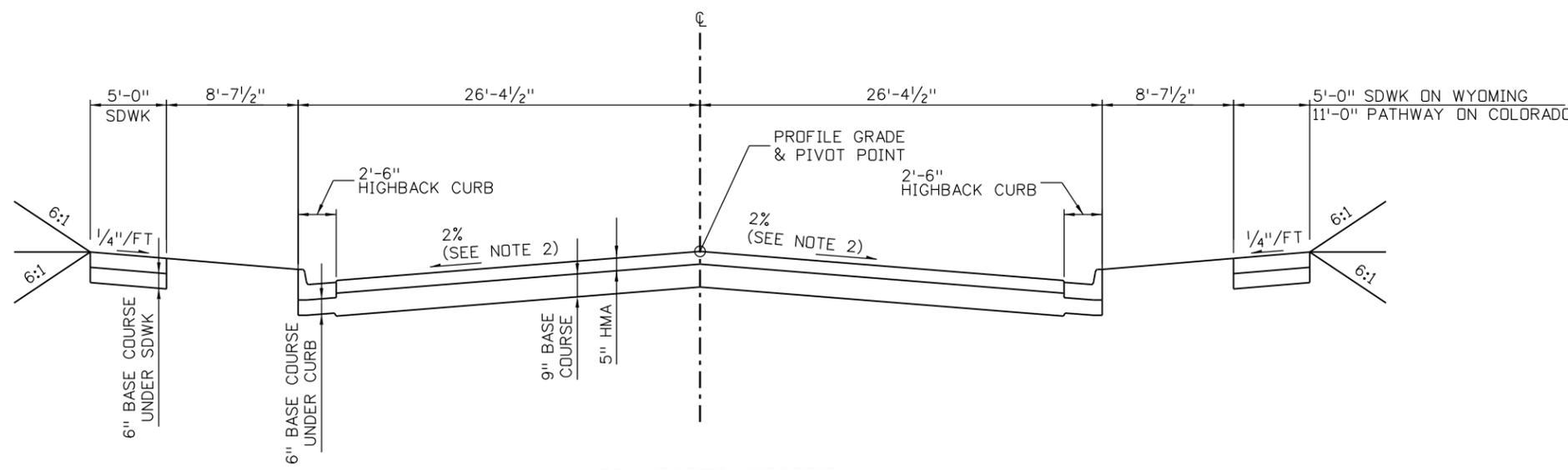


6"x12" CURB

USE WHERE NEW PAVEMENT ABUTS
EXISTING GRAVEL ROAD. CURB SHALL BE
FLUSH WITH PROPOSED HMA ACROSS ENTIRE
WIDTH OF ROADWAY.

NOTES:

1. SEE GENERAL NOTES FOR BASE COURSE AND HMA REQUIREMENTS
2. ROADWAY CROSS SLOPE VARIES AT INTERSECTIONS. SEE ROADWAY PLAN AND PROFILE SHEETS AND ROADWAY DETAILS.

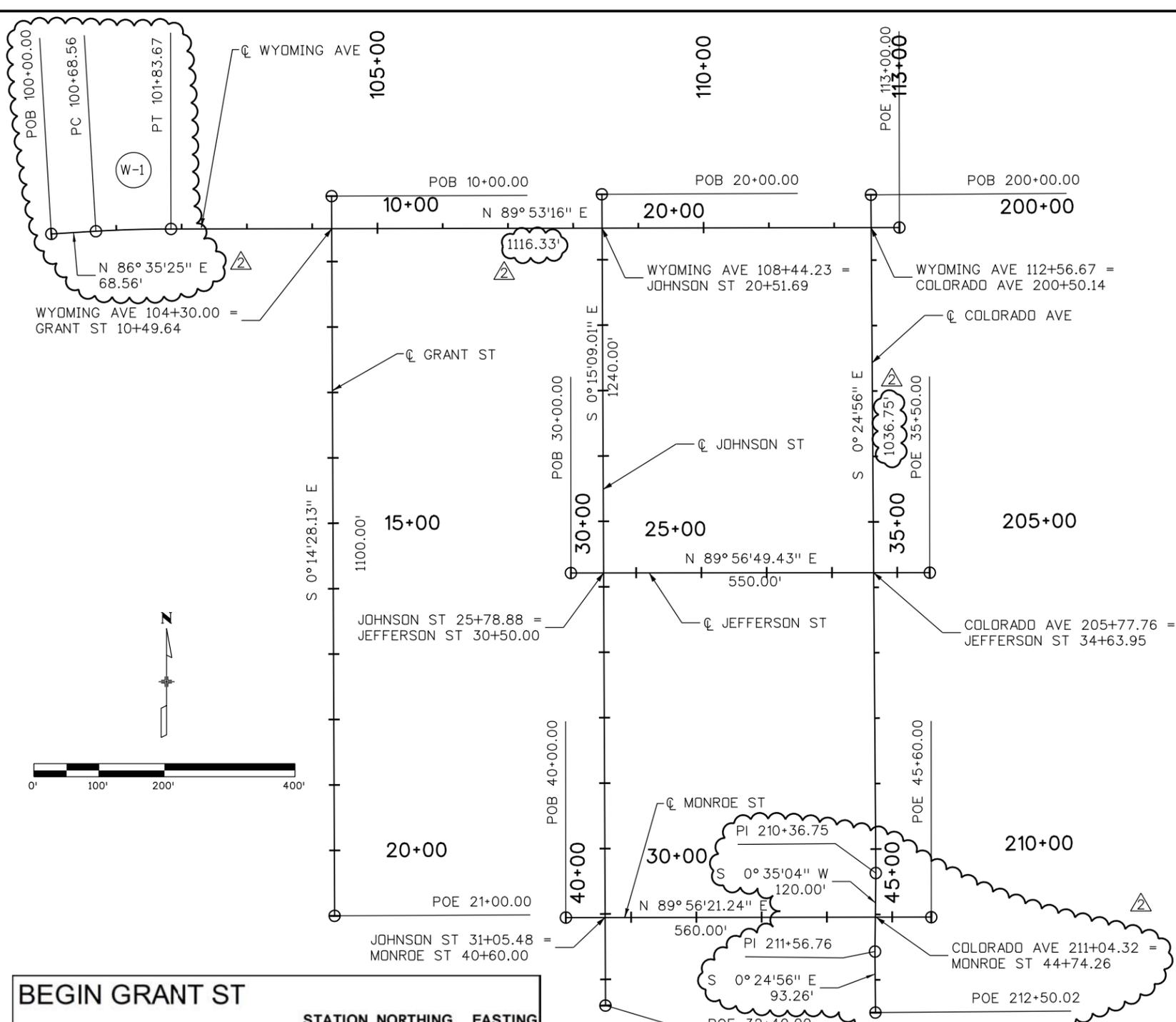


COLLECTOR STREET
(COLORADO AVE AND WYOMING ST)

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW
DATE		MAY 2016	
PROJECT NO.		32710207	
CITY		LARAMIE	
COUNTY		ALBANY	
STATE		WYOMING	
DESIGNED BY		JJW	
CHECKED BY		AGM	

ROADWAY TYPICAL SECTIONS
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

justin.wierema 4:07:04 PM P:\Project\Transportation\Laramie\2015_Linford_School\9.0_CADD\9.2_Design\02_20668.01_Geometric\01.dgn



BEGIN GRANT ST			
POB	10+00.00	296677.48	529493.52
POE	21+00.00	295577.48	529498.15
Tangential Direction:	S 0°14'28.13" E		
Tangential Length:	1100		

BEGIN JOHNSON ST			
POB	20+00.00	296680.34	529907.72
POE	32+40.00	295440.35	529913.19
Tangential Direction:	S 0°15'09.01" E		
Tangential Length:	1240		

BEGIN JEFFERSON ST			
POB	30+00.00	296101.42	529860.28
POE	35+50.00	296101.93	530410.28
Tangential Direction:	N 89°56'49.43" E		
Tangential Length:	550		

BEGIN WYOMING AVE			
Linear	POB	100+00.00	296619.74 529063.92
	PC	100+68.56	296623.82 529132.35
	Tangential Direction:	N 86°35'25" E	
	Tangential Length:	68.56	
Circular	PC	100+68.56	296623.82 529132.35
	PI	101+26.13	296627.24 529189.82
	CC	294627.36	529251.31
	PT	101+83.67	296627.36 529247.4
	Radius:	2000	
	Delta:	3°17'52" Right	
	Degree of Curvature(Arc):	2°51'53"	
	Length:	115.11	
	Tangential:	57.57	
	Chord:	115.1	
	Middle Ordinate:	0.83	
	External:	0.83	
	Tangential Direction:	N 86°35'25" E	
	Radial Direction:	S 3°24'35" E	
	Chord Direction:	N 88°14'21" E	
	Radial Direction:	S 0°06'44" E	
	Tangential Direction:	N 89°53'16" E	
Linear	PT	101+83.67	296627.36 529247.4
	POE	113+00.00	296629.54 530363.73
	Tangential Direction:	N 89°53'16" E	
	Tangential Length:	1116.33	

BEGIN COLORADO AVE			
Linear	POB	200+00.00	296679.59 530320.03
	PI	210+36.75	295642.87 530327.55
	Tangential Direction:	S 0°24'56" E	
	Tangential Length:	1036.75	
Linear	PI	210+36.75	295642.87 530327.55
	PI	211+56.76	295522.87 530326.33
	Tangential Direction:	S 0°35'04" W	
	Tangential Length:	120	
Linear	PI	211+56.76	295522.87 530326.33
	POE	212+50.02	295429.61 530327
	Tangential Direction:	S 0°24'56" E	
	Tangential Length:	93.26	

BEGIN MONROE ST			
POB	40+00.00	295574.80	529852.60
POE	45+60.00	295575.39	530412.60
Tangential Direction:	N 89°56'21.24" E		
Tangential Length:	560		



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PREPARED FOR: CITY OF LARAMIE, 405 GRAND AVENUE, LARAMIE, WY 82073, (307) 721-5345, CONTACT: ERIC JAAP

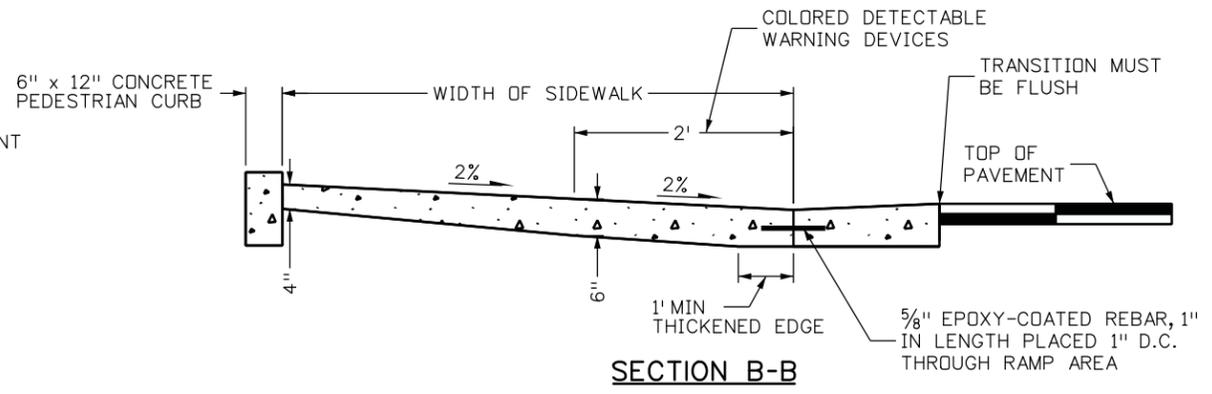
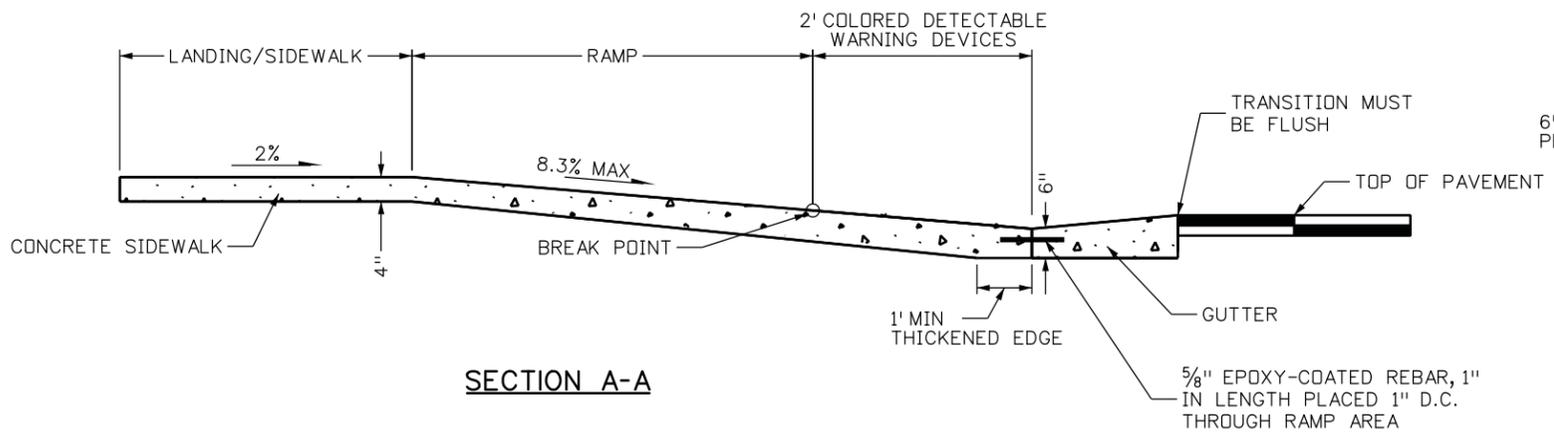
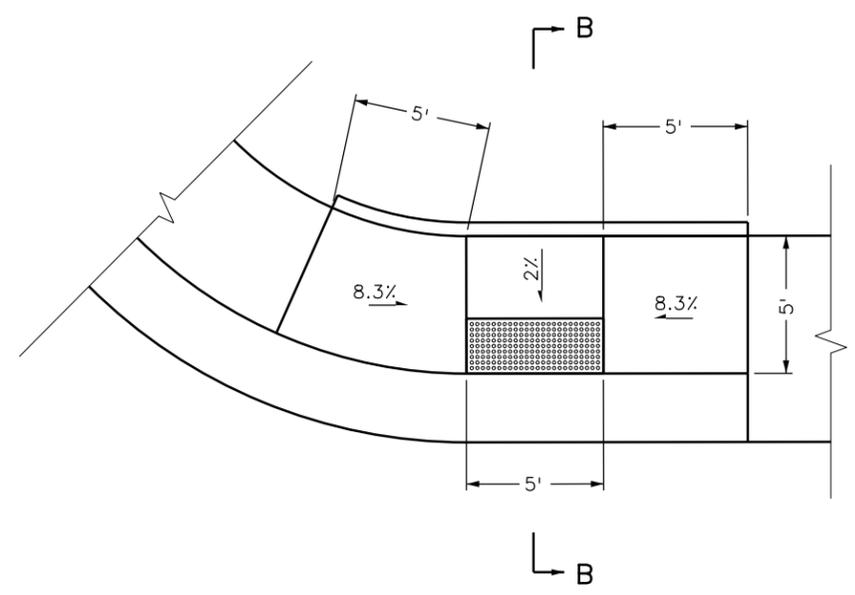
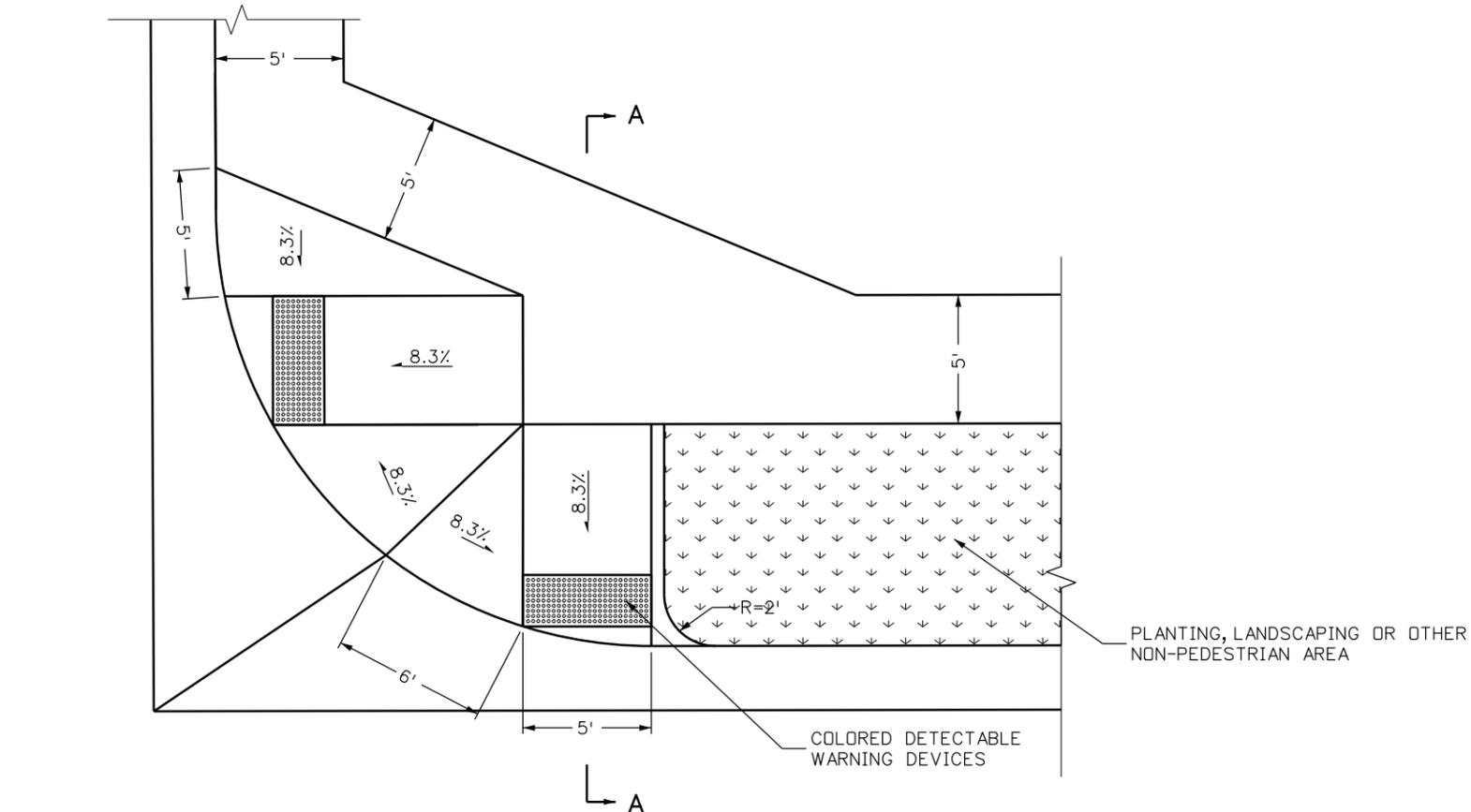
NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

GEOMETRIC LAYOUT AND DATA
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

29 SHEET OF 77
 GL-01

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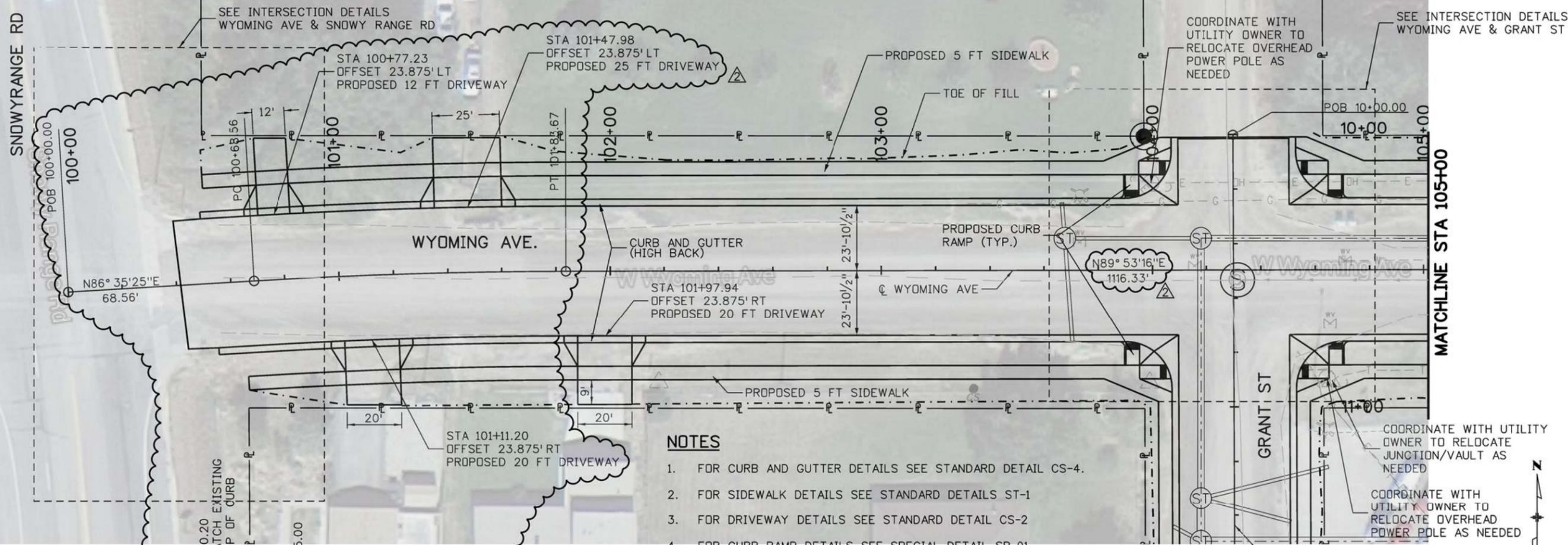
PREPARED FOR
 CITY OF LARAMIE
 405 GRAND AVENUE
 PO BOX C
 LARAMIE, WY 82073
 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
CHECKED BY	AGM

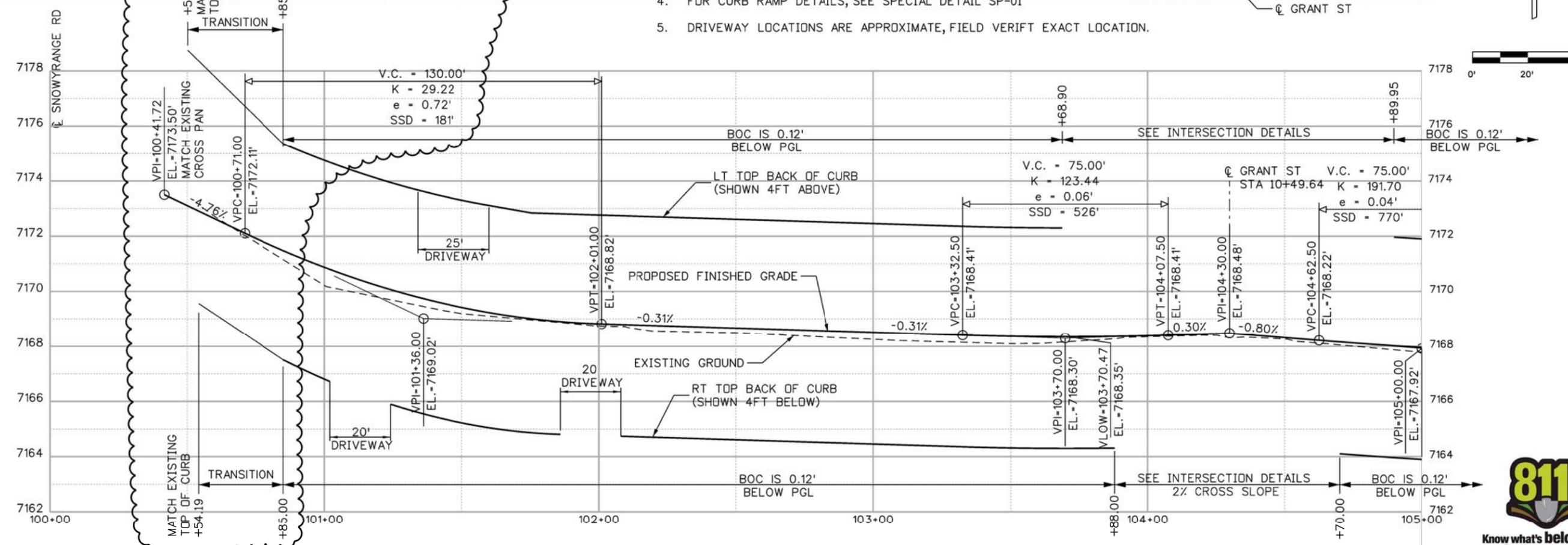
CURB RAMP DETAILS
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2
4. FOR CURB RAMP DETAILS, SEE SPECIAL DETAIL SP-01
5. DRIVEWAY LOCATIONS ARE APPROXIMATE, FIELD VERIFY EXACT LOCATION.



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 CITY OF LARAMIE
 405 GRAND AVENUE
 PO BOX C
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 (307) 721-5345
 CONTACT: ERIC JAAP

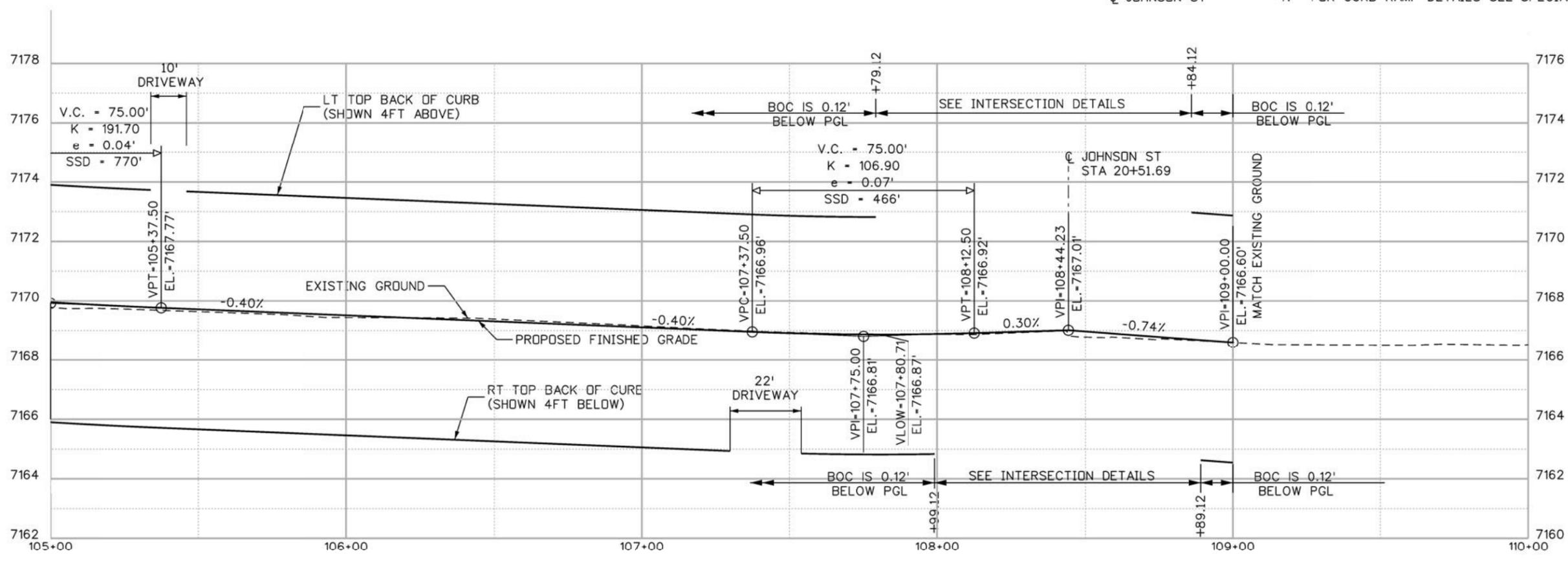
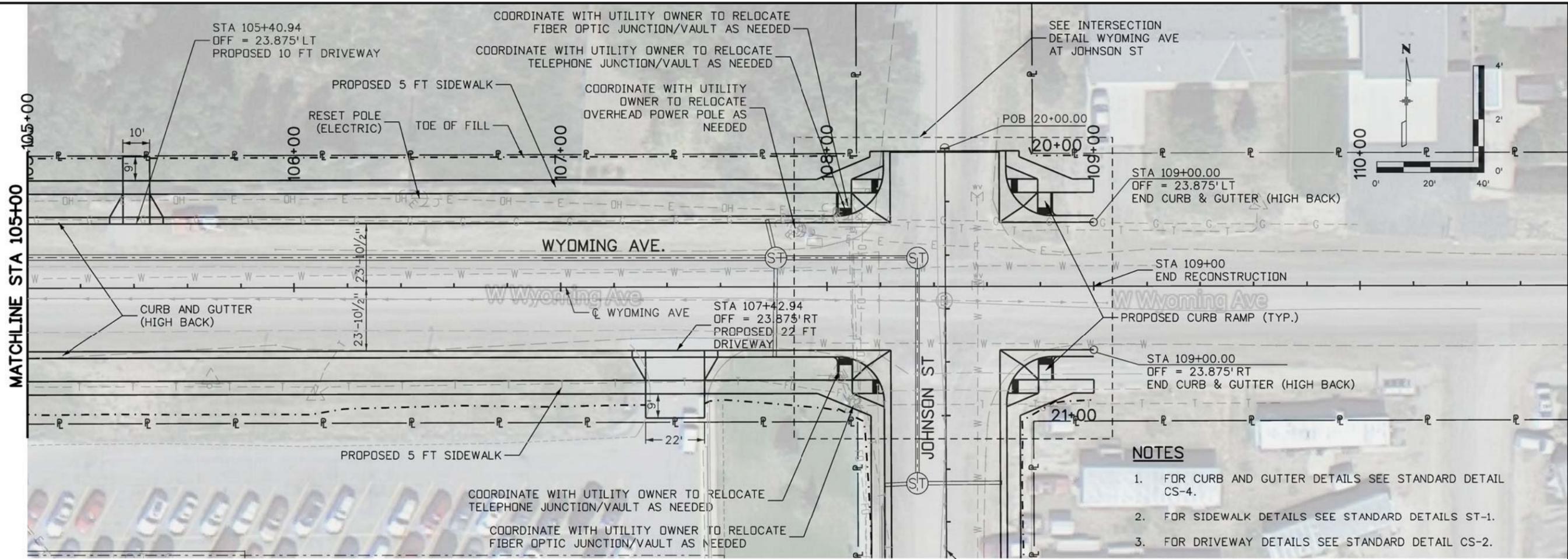
920 E. SHERIDAN, STE. A
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 Fax: (307) 745-8204

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

ROADWAY PLAN AND PROFILE
WYOMING AVE.
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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PO BOX C
LARAMIE, WY 82073
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CONTACT: ERIC JAAP

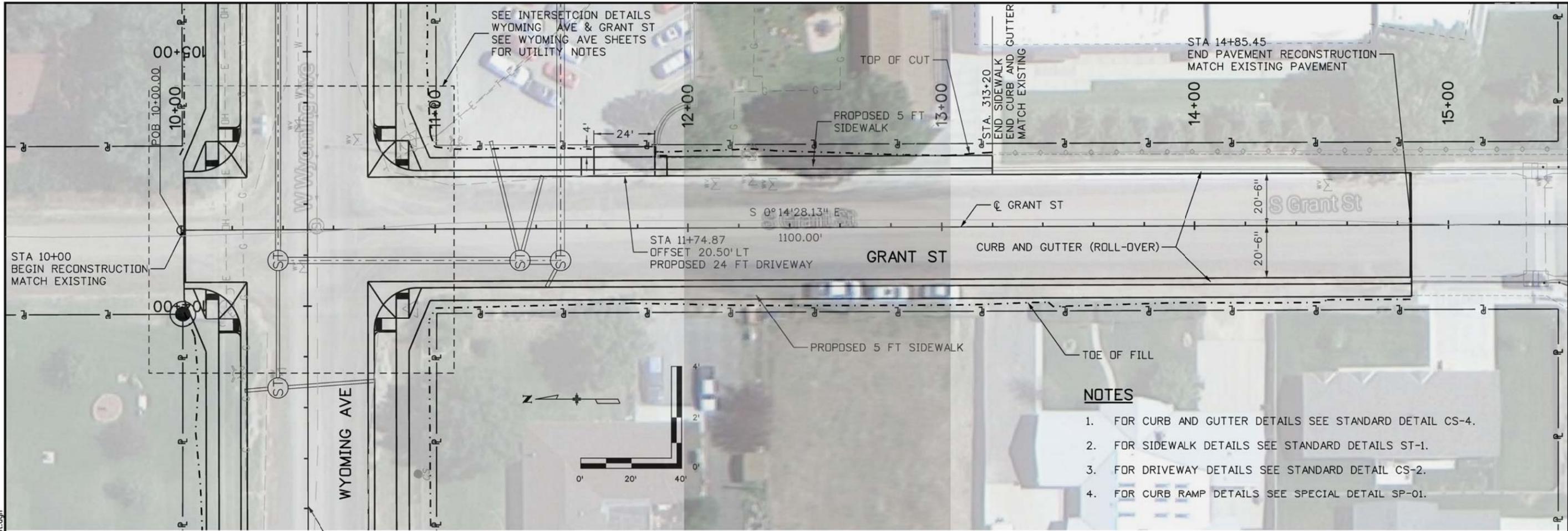
NO.	DESCRIPTION	DATE
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJW

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
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ROADWAY PLAN AND PROFILE
WYOMING AVE
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.



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NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
4. FOR CURB RAMP DETAILS SEE SPECIAL DETAIL SP-01.



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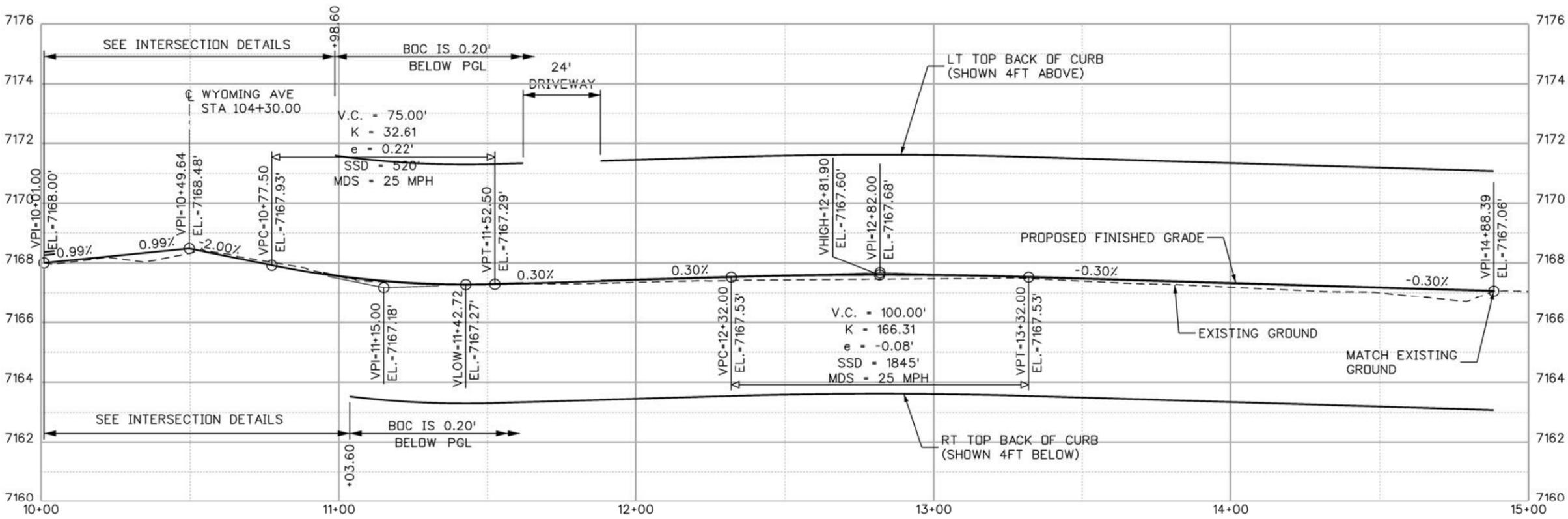
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405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

DATE	BY
MAR 2016	JJW
MAY 2016	JJW

NO.	DESCRIPTION
1	CONSTRUCTION PLAN SET
2	REVISED CONSTRUCTION PLAN SET

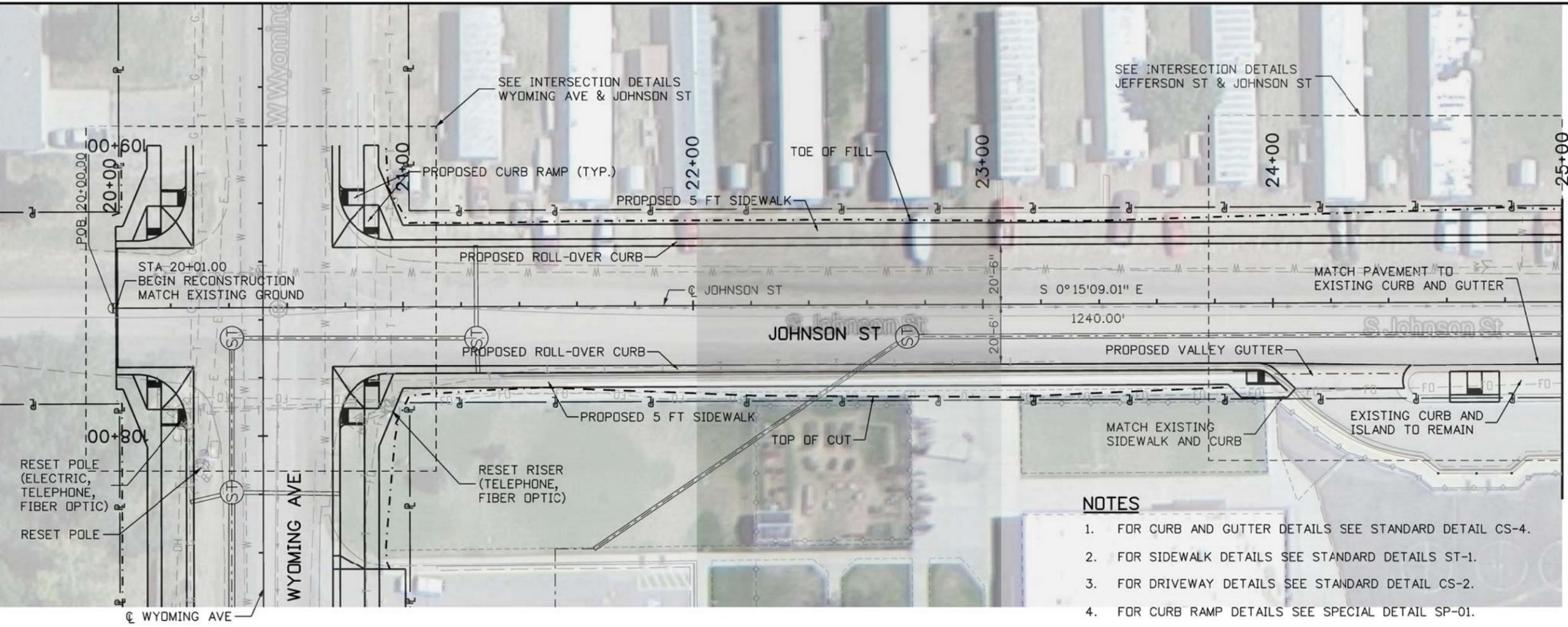
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
CHECKED BY	AGM

ROADWAY PLAN AND PROFILE
GRANT ST
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.



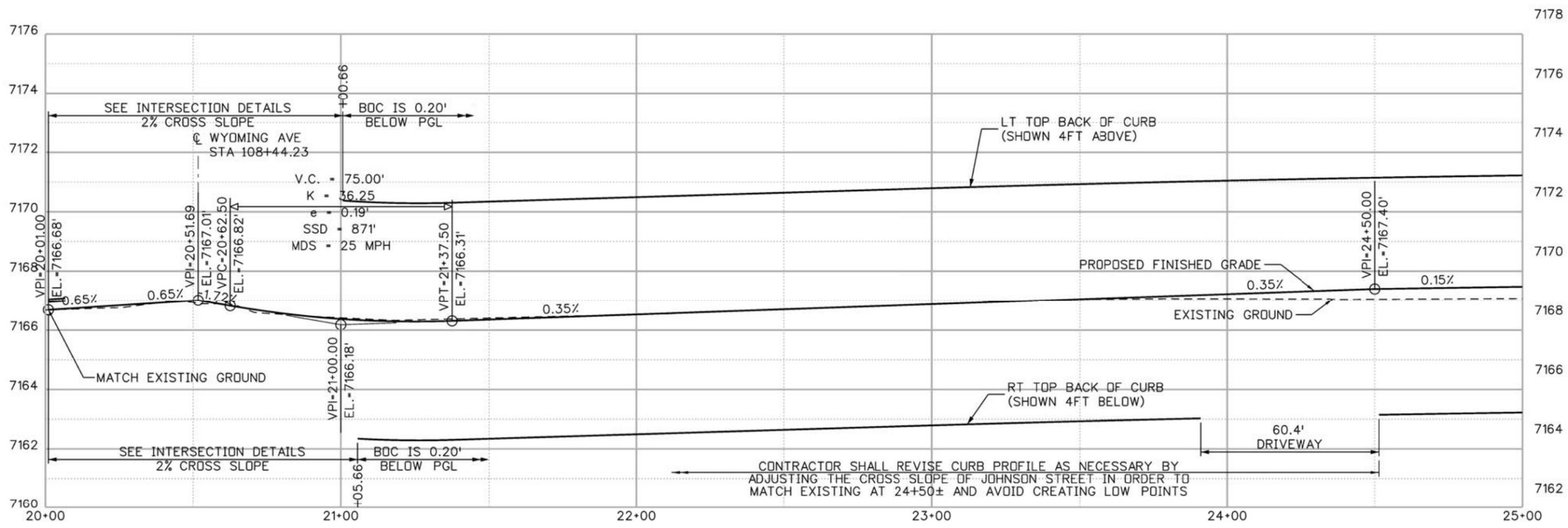
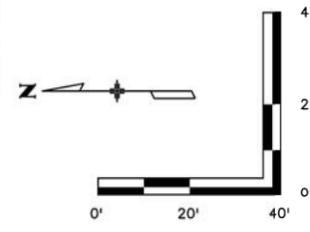
Know what's below.
Call before you dig.

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NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
4. FOR CURB RAMP DETAILS SEE SPECIAL DETAIL SP-01.
5. FOR VALLEY GUTTER DETAILS SEE STANDARD DETAIL CS-1. THE VALLEY GUTTER DEPTH SHALL BE 1 INCH.



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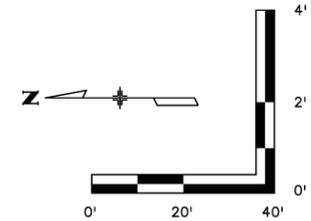
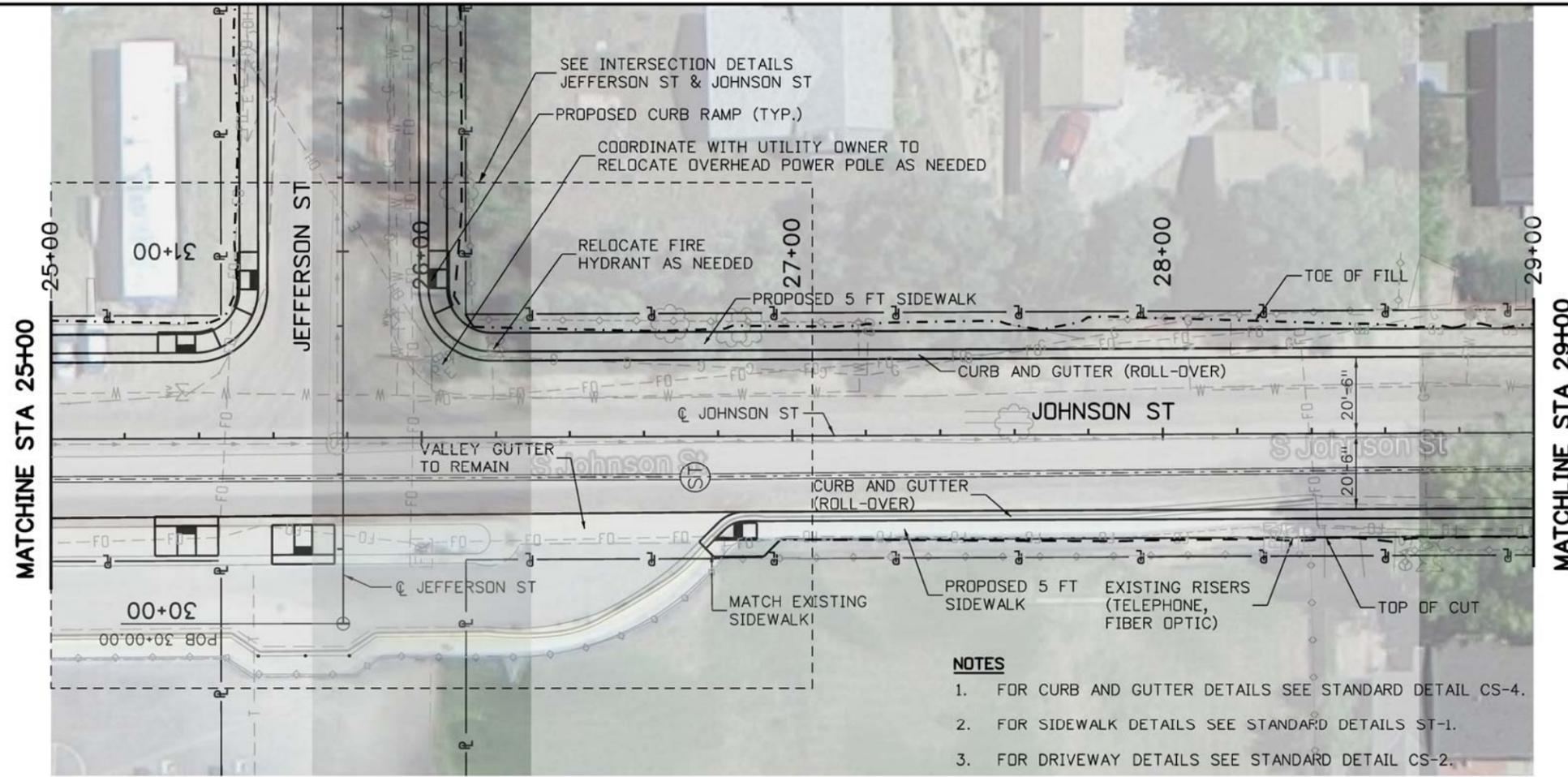
NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJW

PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
CHECKED BY	AGM

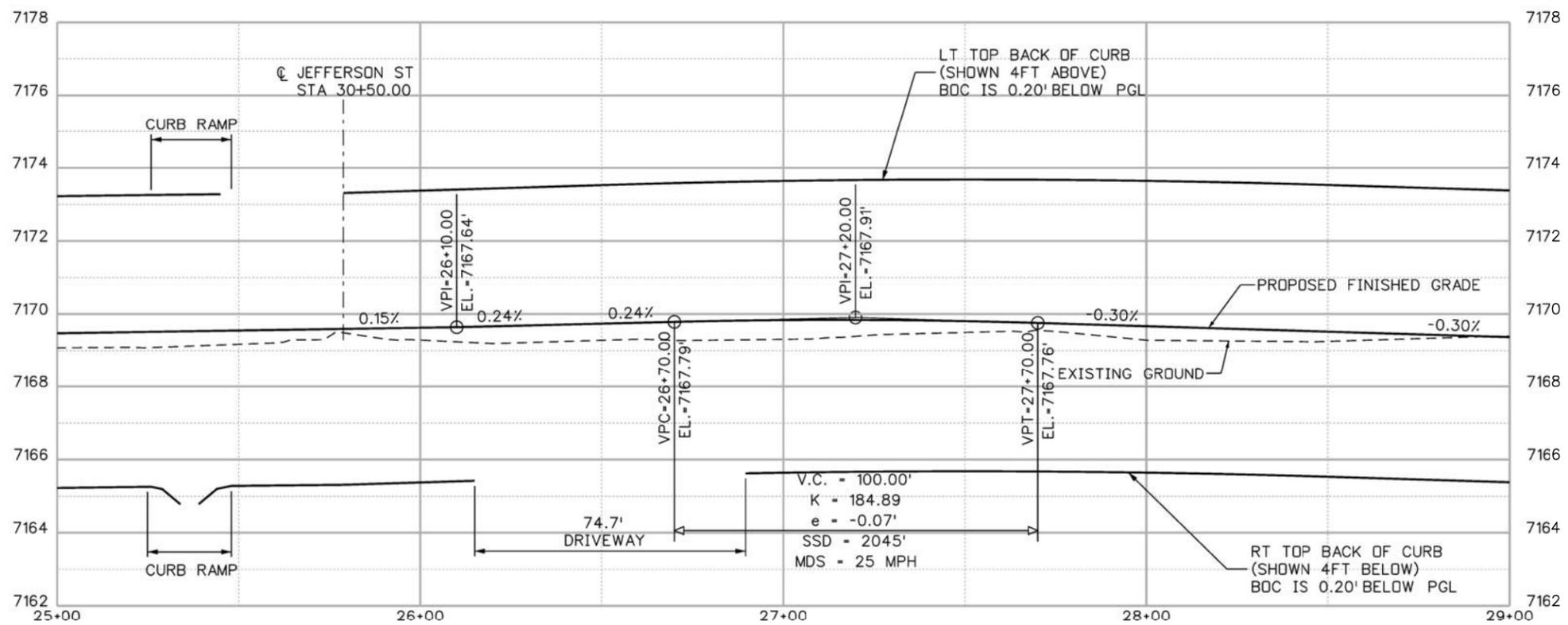
ROADWAY PLAN AND PROFILE
JOHNSON ST
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.



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- NOTES**
1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
 2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
 3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
 4. FOR CURB RAMP DETAILS SEE STANDARD DETAIL CR-3.
 5. FOR VALLEY GUTTER SEE STANDARD DETAIL CS-1.



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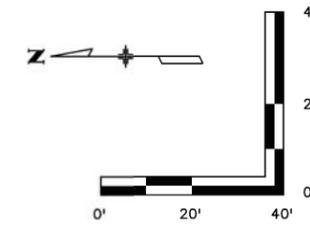
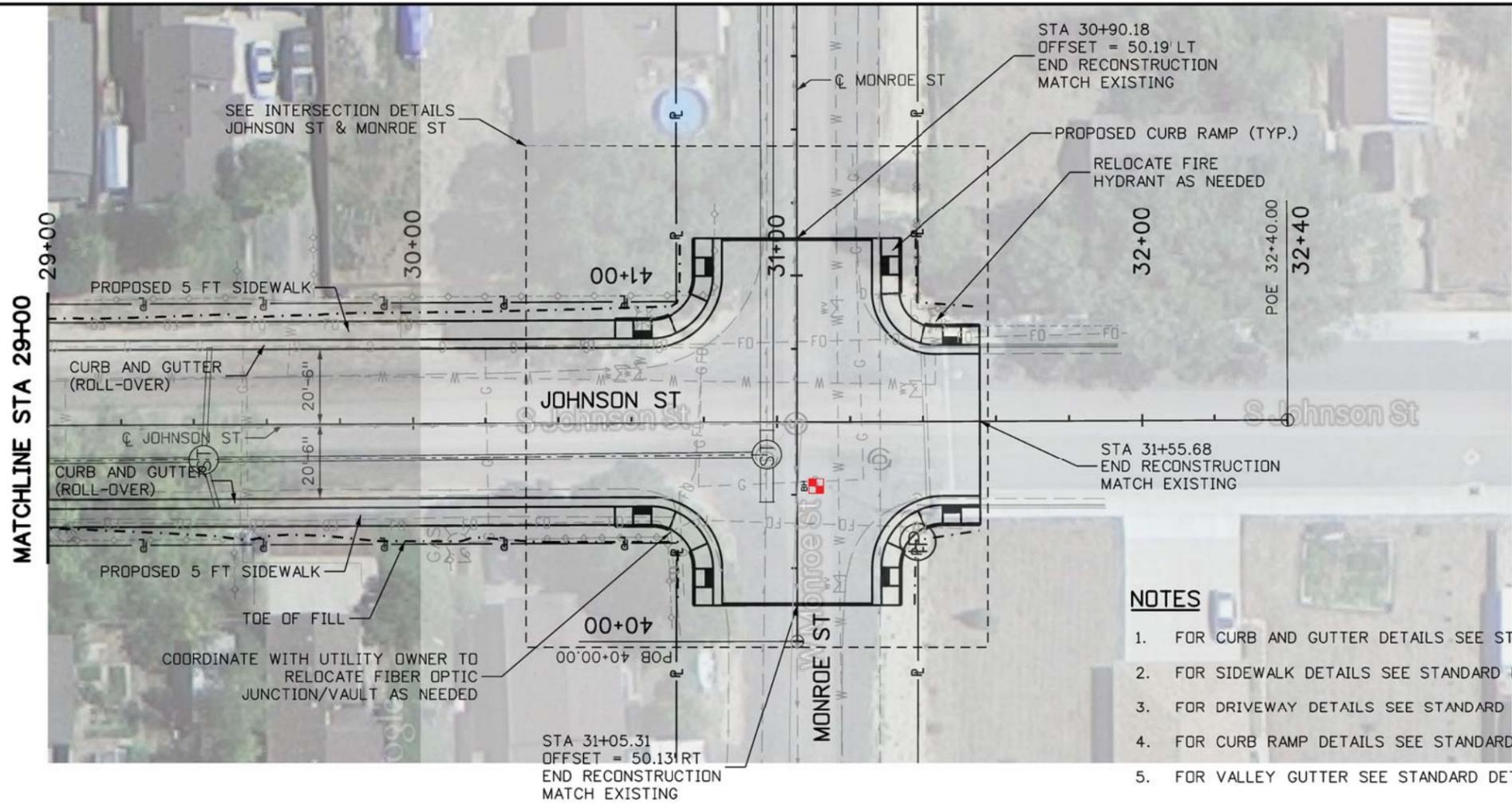
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 405 GRAND AVENUE
 PO BOX C
 LARAMIE, WY 82073
 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

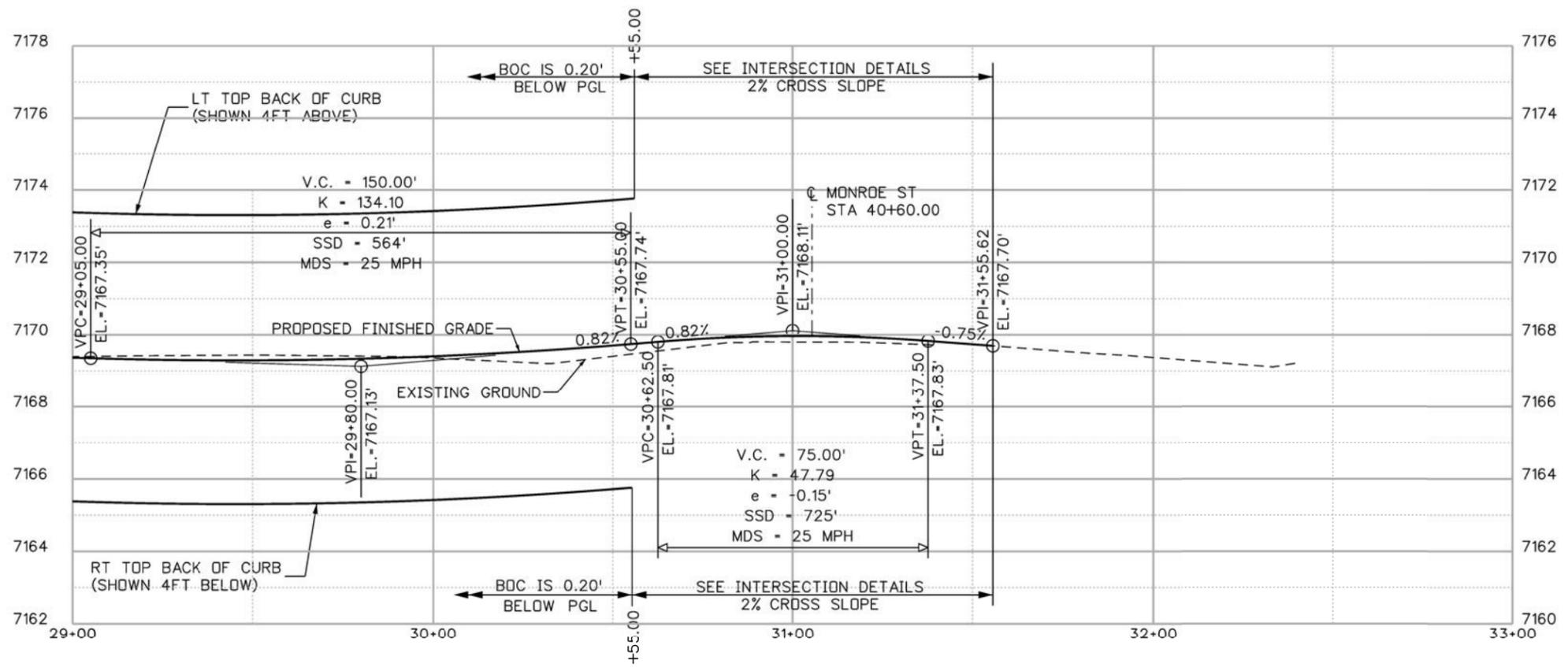
DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
CHECKED BY	AGM

ROADWAY PLAN AND PROFILE
JOHNSON ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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- NOTES**
1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
 2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
 3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
 4. FOR CURB RAMP DETAILS SEE STANDARD DETAIL CR-3.
 5. FOR VALLEY GUTTER SEE STANDARD DETAIL CS-1.



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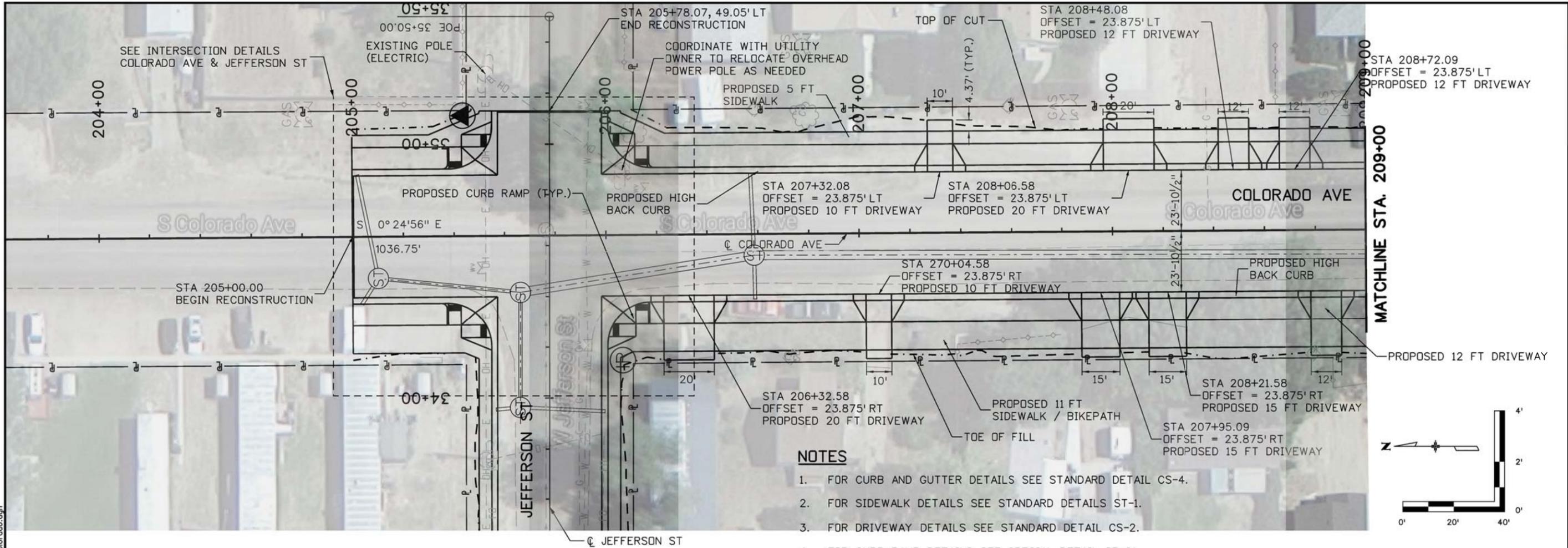
PREPARED FOR
 CITY OF LARAMIE
 405 GRAND AVENUE
 PO BOX C
 LARAMIE, WY 82073
 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

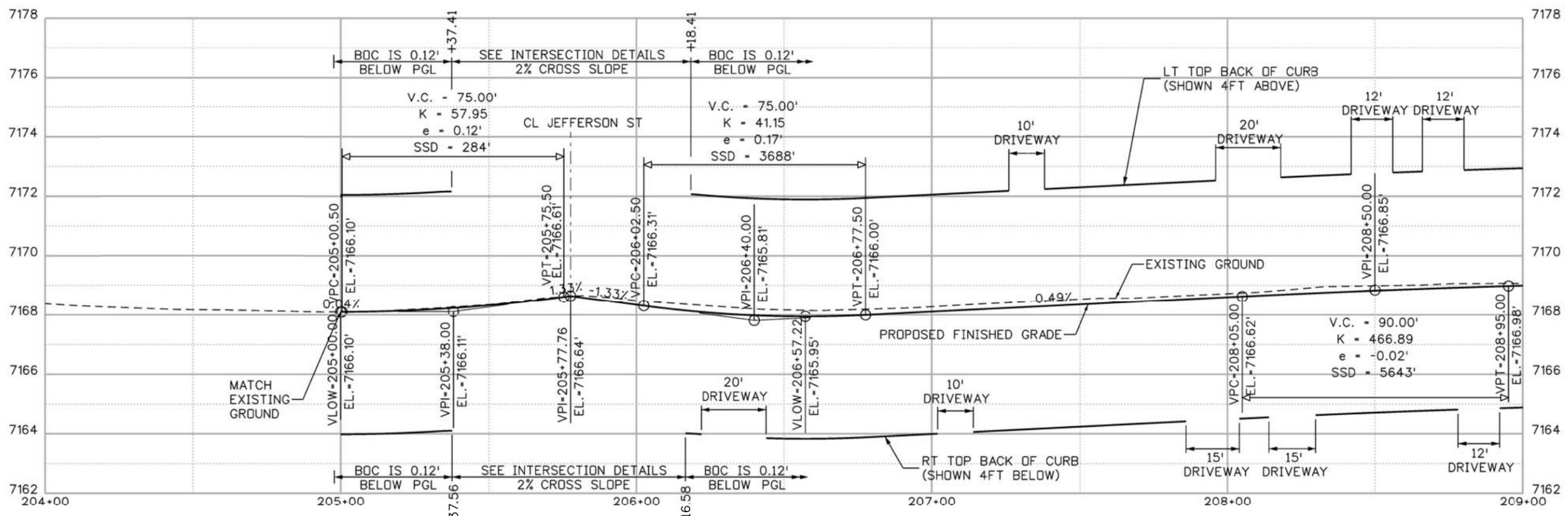
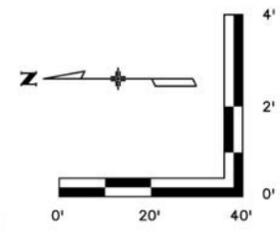
ROADWAY PLAN AND PROFILE
JOHNSON ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.





NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
4. FOR CURB RAMP DETAILS SEE SPECIAL DETAIL SP-01.



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NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJW

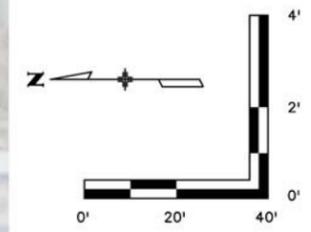
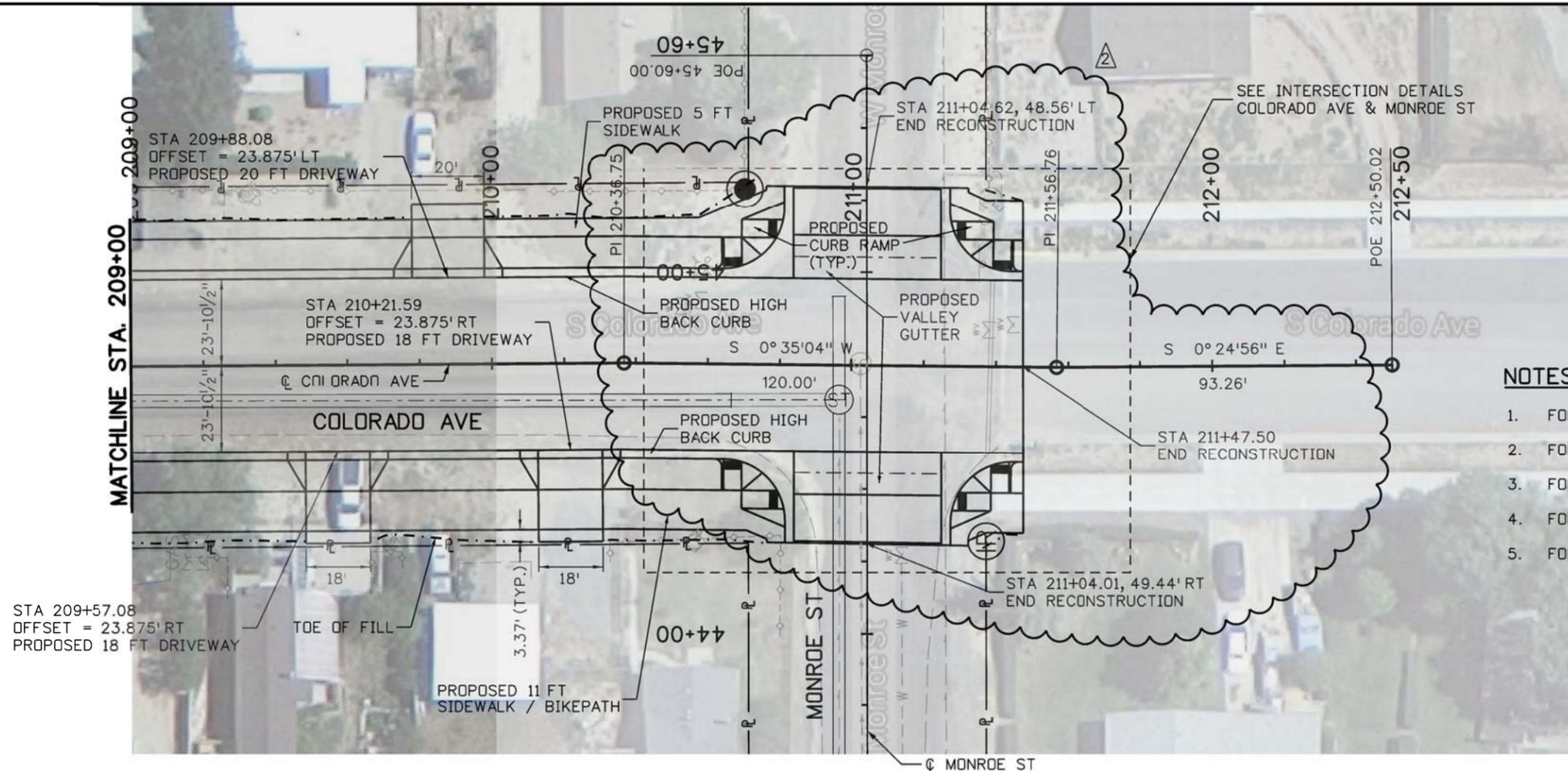
DATE: MAY 2016
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 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

ROADWAY PLAN AND PROFILE
COLORADO AVE
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

37 SHEET OF 77
 PP-07

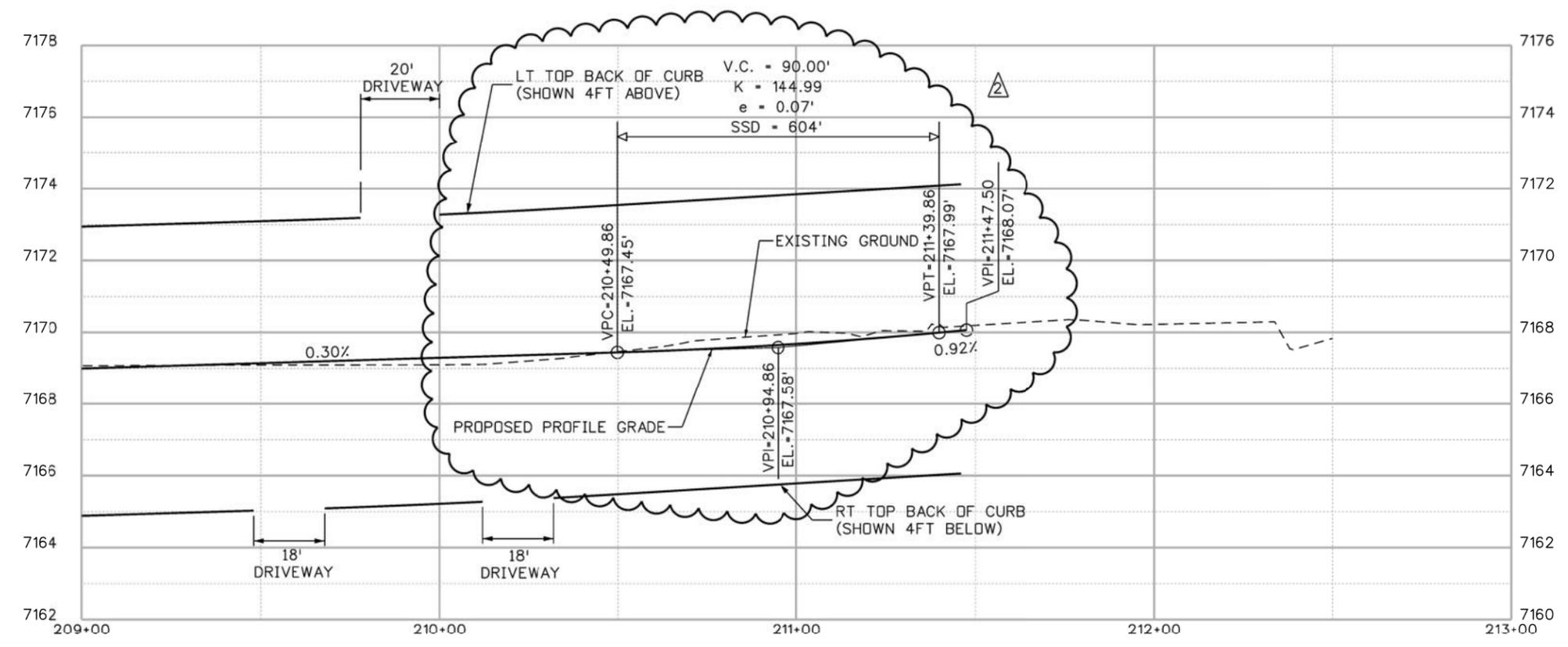
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NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
4. FOR CURB RAMP DETAILS SEE SPECIAL DETAIL SP-01.
5. FOR VALLEY GUTTER DETAILS SEE STANDARD DETAIL CS-1.




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 CONTACT: ERIC JAAP

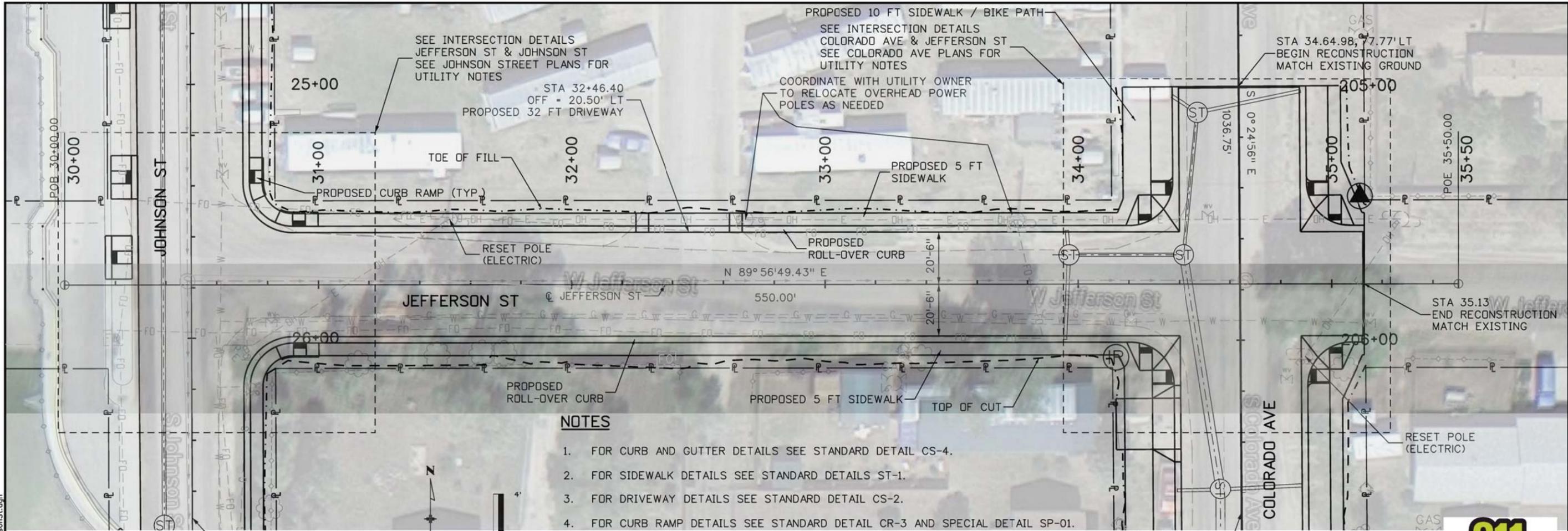
NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

ROADWAY PLAN AND PROFILE
COLORADO AVE
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

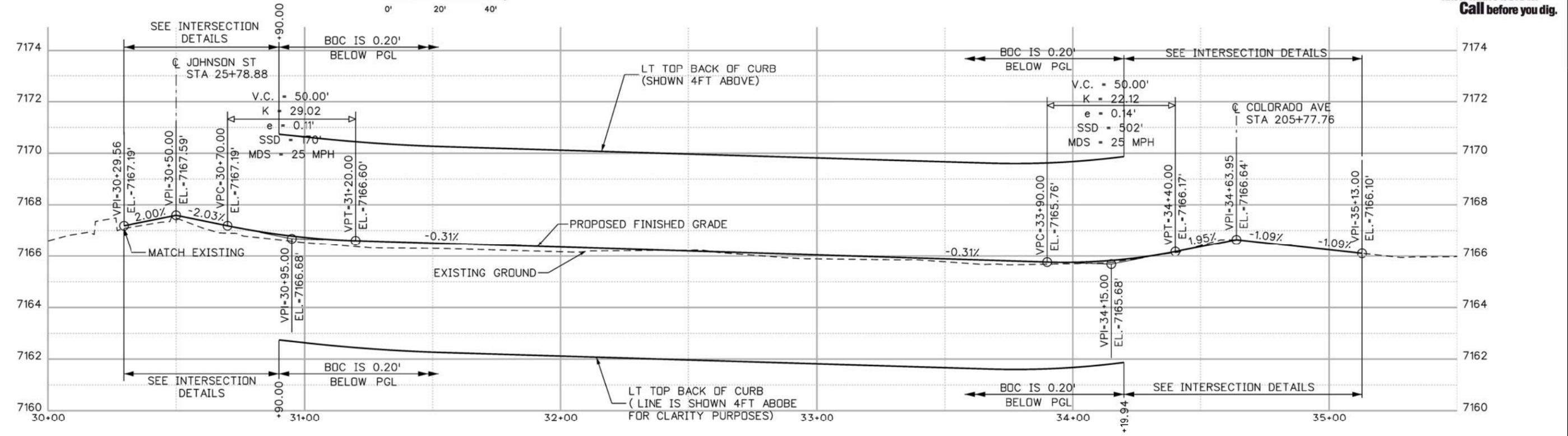
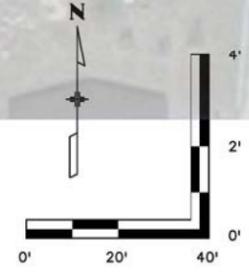
38 SHEET OF 77
 PP-08

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NOTES

1. FOR CURB AND GUTTER DETAILS SEE STANDARD DETAIL CS-4.
2. FOR SIDEWALK DETAILS SEE STANDARD DETAILS ST-1.
3. FOR DRIVEWAY DETAILS SEE STANDARD DETAIL CS-2.
4. FOR CURB RAMP DETAILS SEE STANDARD DETAIL CR-3 AND SPECIAL DETAIL SP-01.



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 405 GRAND AVENUE
 PO BOX C
 LARAMIE, WY 82073
 (307) 721-5345
 CONTACT: ERIC JAAP

DATE	BY
MAR 2016	JW
MAY 2016	JW

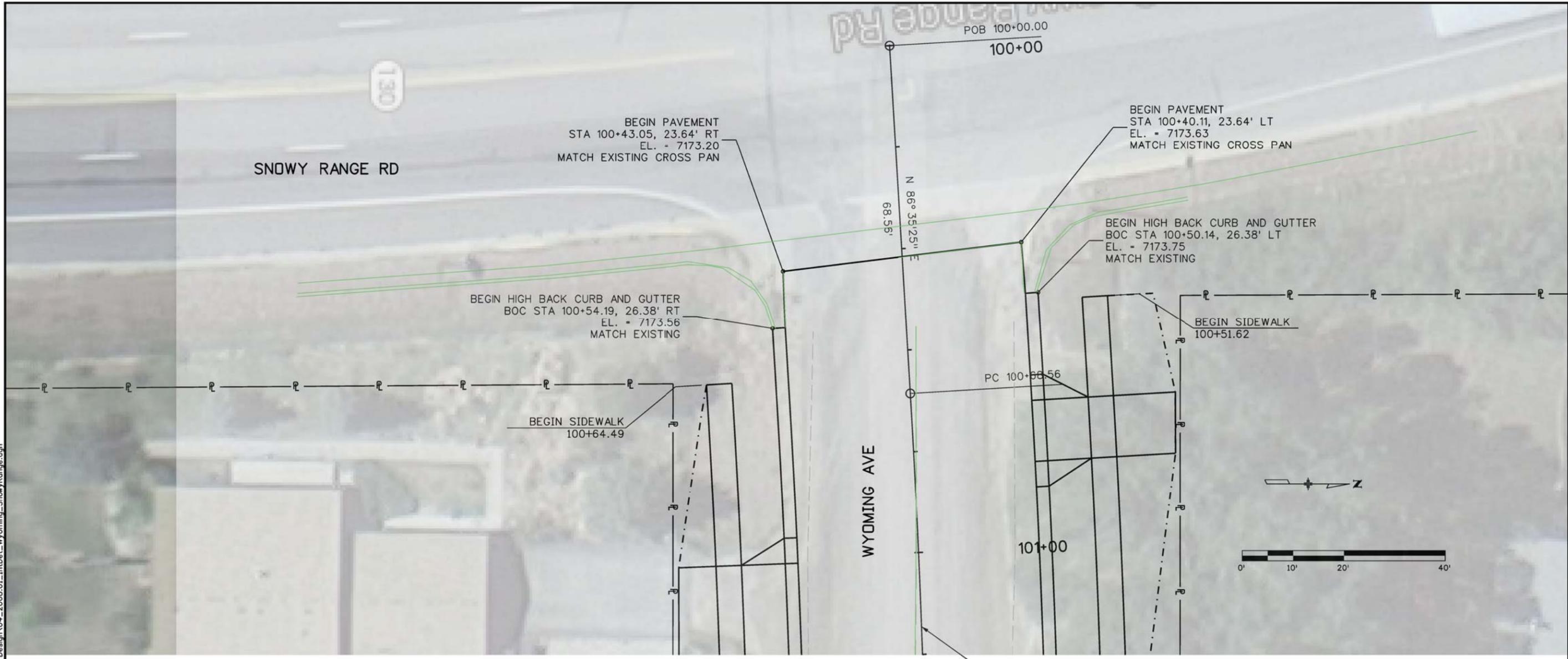
NO. 1 CONSTRUCTION PLAN SET
 2 REVISED CONSTRUCTION PLAN SET

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JW
 CHECKED BY: AGM

ROADWAY PLAN AND PROFILE
JEFFERSON ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

39 SHEET OF 77
 PP-09

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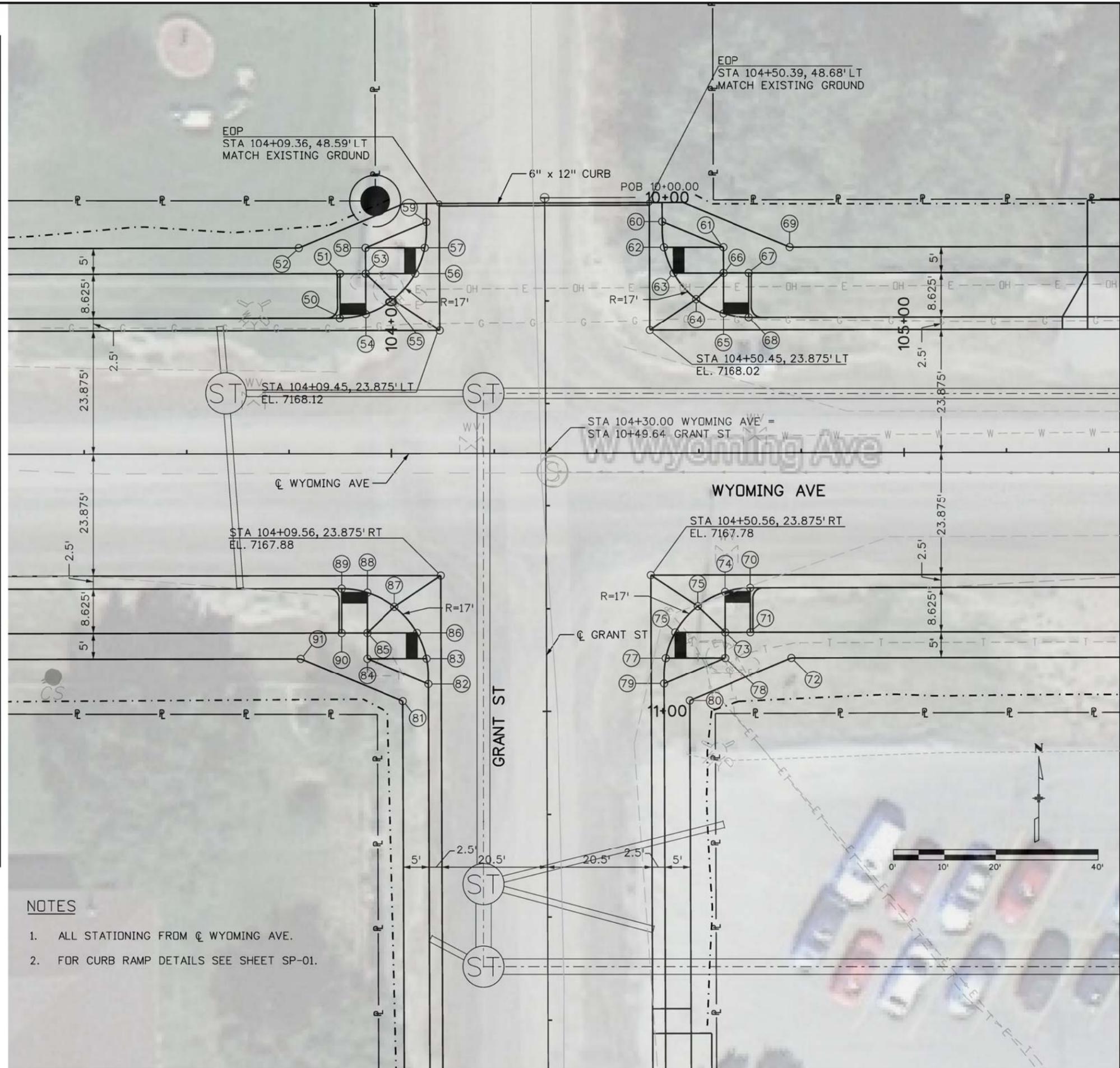
NOTES

1. ALL STATIONING FROM \varnothing WYOMING AVE.

 PREPARED BY amec foster wheeler www.amecfrw.com	
PREPARED FOR CITY OF LARAMIE 405 GRAND AVENUE PO BOX C LARAMIE, WY 82073 (307) 721-5345 CONTACT: ERIC JAAP	
920 E. SHERIDAN, STE. A LARAMIE, WYOMING 82070 Phone: (307) 460-3249 Fax: (307) 745-8204	
NO. 1 DESCRIPTION CONSTRUCTION PLAN SET REVISED CONSTRUCTION PLAN SET	DATE MAR 2016 JJW MAY 2016 JJW
PROJECT NO. 32710207	DATE MAY 2016
CITY LARAMIE	
COUNTY ALBANY	
STATE WYOMING	
DESIGNED BY JJW	
CHECKED BY AGM	
INTERSECTION DETAILS WYOMING & SNOWY RANGE RD CITY OF LARAMIE LINFORD SCHOOL DRAINAGE IMP.	
40 SHEET OF 77	
RD-01	

CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
50	WYOMING AVE	103+89.98	26.37	LT	7167.99
51	WYOMING AVE	103+89.96	35.00	LT	7168.67
52	WYOMING AVE	103+81.98	40.00	LT	7168.67
53	WYOMING AVE	103+94.96	35.00	LT	7168.63
54	WYOMING AVE	103+94.98	27.15	LT	7168.00
55 (TOC)	WYOMING AVE	104+00.30	29.93	LT	7168.49
56	WYOMING AVE	104+04.70	35.00	LT	7167.96
57	WYOMING AVE	104+06.57	40.00	LT	7167.91
58	WYOMING AVE	103+94.95	40.00	LT	7168.73
59	WYOMING AVE	104+06.90	44.99	LT	7168.19
60	WYOMING AVE	104+52.90	44.99	LT	7168.09
61	WYOMING AVE	104+64.84	40.00	LT	7168.54
62	WYOMING AVE	104+53.24	40.00	LT	7167.81
63	WYOMING AVE	104+55.11	35.00	LT	7167.85
64 (TOC)	WYOMING AVE	104+59.51	29.93	LT	7168.34
65	WYOMING AVE	104+64.83	27.15	LT	7167.82
66	WYOMING AVE	104+64.84	35.00	LT	7168.44
67	WYOMING AVE	104+69.84	35.00	LT	7168.46
68	WYOMING AVE	104+69.83	26.38	LT	7167.78
69	WYOMING AVE	104+77.82	40.00	LT	7168.41
70	WYOMING AVE	704+70.02	26.37	RT	7167.54
71	WYOMING AVE	104+70.04	35.00	RT	7168.22
72	WYOMING AVE	104+78.01	40.00	RT	7168.26
73	WYOMING AVE	104+65.04	35.00	RT	7168.21
74	WYOMING AVE	104+65.02	27.15	RT	7167.58
75 (TOC)	WYOMING AVE	104+59.70	29.93	RT	7167.95
76	WYOMING AVE	104+55.31	35.00	RT	7167.41
77	WYOMING AVE	104+53.44	40.00	RT	7167.26
78	WYOMING AVE	104+65.04	40.00	RT	7168.31
79	WYOMING AVE	104+53.10	44.99	RT	7167.47
80	WYOMING AVE	104+58.11	48.32	RT	7167.49
81	WYOMING AVE	104+02.11	48.32	RT	7167.55
82	WYOMING AVE	104+07.10	44.99	RT	7167.53
83	WYOMING AVE	104+06.76	40.00	RT	7167.34
84	WYOMING AVE	103+95.16	40.00	RT	7168.49
85	WYOMING AVE	103+95.16	35.00	RT	7168.39
86	WYOMING AVE	104+04.89	35.00	RT	7167.48
87 (TOC)	WYOMING AVE	104+00.50	29.93	RT	7168.12
88	WYOMING AVE	103+95.18	27.15	RT	7167.76
89	WYOMING AVE	103+90.18	26.37	RT	7167.75
90	WYOMING AVE	103+90.16	35.00	RT	7168.43
91	WYOMING AVE	103+82.18	40.00	RT	7168.52



NOTES

1. ALL STATIONING FROM ϕ WYOMING AVE.
2. FOR CURB RAMP DETAILS SEE SHEET SP-01.



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 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJW

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

INTERSECTION DETAILS
WYOMING AVE & GRANT ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

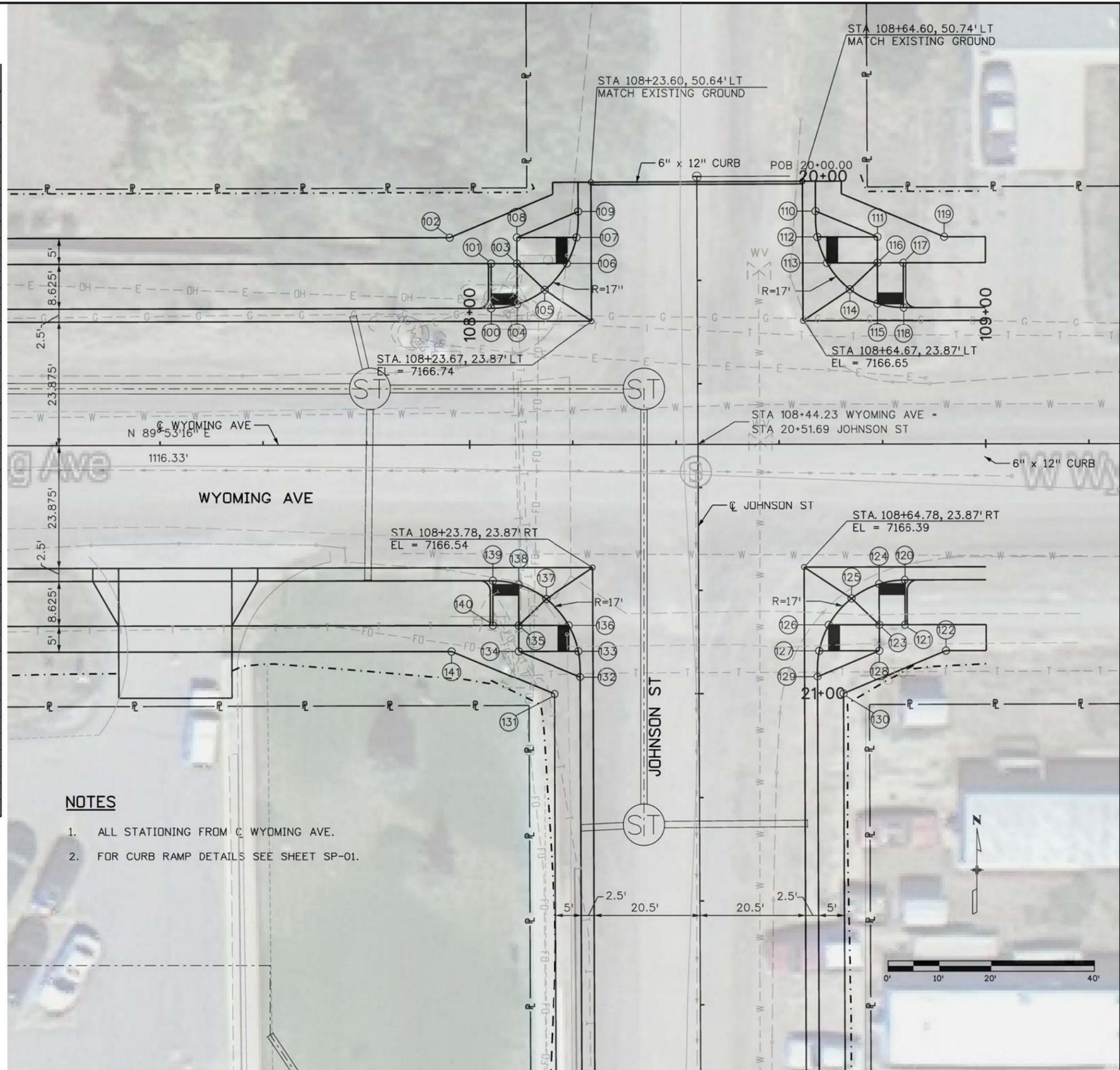
41 SHEET
 OF 77
 RD-02

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CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
100	WYOMING AVE	108+04.20	26.37	LT	7166.60
101	WYOMING AVE	108+04.18	35.00	LT	7167.28
102	WYOMING AVE	107+96.21	40.00	LT	7167.26
103	WYOMING AVE	108+09.18	35.00	LT	7167.24
104	WYOMING AVE	108+09.20	27.15	LT	7166.61
105 (TOC)	WYOMING AVE	108+14.52	29.93	LT	7167.19
106	WYOMING AVE	108+18.91	35.00	LT	7166.60
107	WYOMING AVE	108+20.78	40.00	LT	7166.57
108	WYOMING AVE	108+09.18	40.00	LT	7167.34
109	WYOMING AVE	108+21.12	44.99	LT	7166.87
110	WYOMING AVE	108+67.12	44.99	LT	7166.78
111	WYOMING AVE	108+79.06	40.00	LT	7167.19
112	WYOMING AVE	108+67.46	40.00	LT	7166.48
113	WYOMING AVE	108+69.33	35.00	LT	7166.51
114 (TOC)	WYOMING AVE	108+73.72	29.93	LT	7166.54
115	WYOMING AVE	108+79.04	27.15	LT	7166.46
116	WYOMING AVE	108+79.06	35.00	LT	7167.09
117	WYOMING AVE	108+84.06	35.00	LT	7167.10
118	WYOMING AVE	108+84.04	26.37	LT	7166.42
119	WYOMING AVE	108+92.03	40.00	LT	7167.14
120	WYOMING AVE	108+84.25	26.37	RT	7166.16
121	WYOMING AVE	108+84.27	35.00	RT	7166.84
122	WYOMING AVE	108+92.24	40.00	RT	7166.82
123	WYOMING AVE	108+79.27	35.00	RT	7166.83
124	WYOMING AVE	108+79.26	27.15	RT	7166.20
125 (TOC)	WYOMING AVE	108+73.94	29.93	RT	7166.22
126	WYOMING AVE	108+69.54	35.00	RT	7166.10
127	WYOMING AVE	108+67.67	40.00	RT	7166.00
128	WYOMING AVE	108+79.27	40.00	RT	7166.93
129	WYOMING AVE	108+67.34	44.99	RT	7166.24
130	WYOMING AVE	108+72.34	48.31	RT	7166.28
131	WYOMING AVE	108+16.34	48.32	RT	7166.34
132	WYOMING AVE	108+21.34	44.99	RT	7166.30
133	WYOMING AVE	108+20.99	40.00	RT	7166.07
134	WYOMING AVE	108+09.39	40.00	RT	7167.09
135	WYOMING AVE	108+09.39	35.00	RT	7166.99
136	WYOMING AVE	108+19.13	35.00	RT	7166.18
137 (TOC)	WYOMING AVE	108+14.73	29.93	RT	7166.77
138	WYOMING AVE	108+09.41	27.15	RT	7166.36
139	WYOMING AVE	108+04.41	26.37	RT	7166.35
140	WYOMING AVE	108+04.39	35.00	RT	7167.03
141	WYOMING AVE	107+96.42	40.00	RT	7167.04



- NOTES**
- ALL STATIONING FROM C WYOMING AVE.
 - FOR CURB RAMP DETAILS SEE SHEET SP-01.

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CONTACT: ERIC JAAP

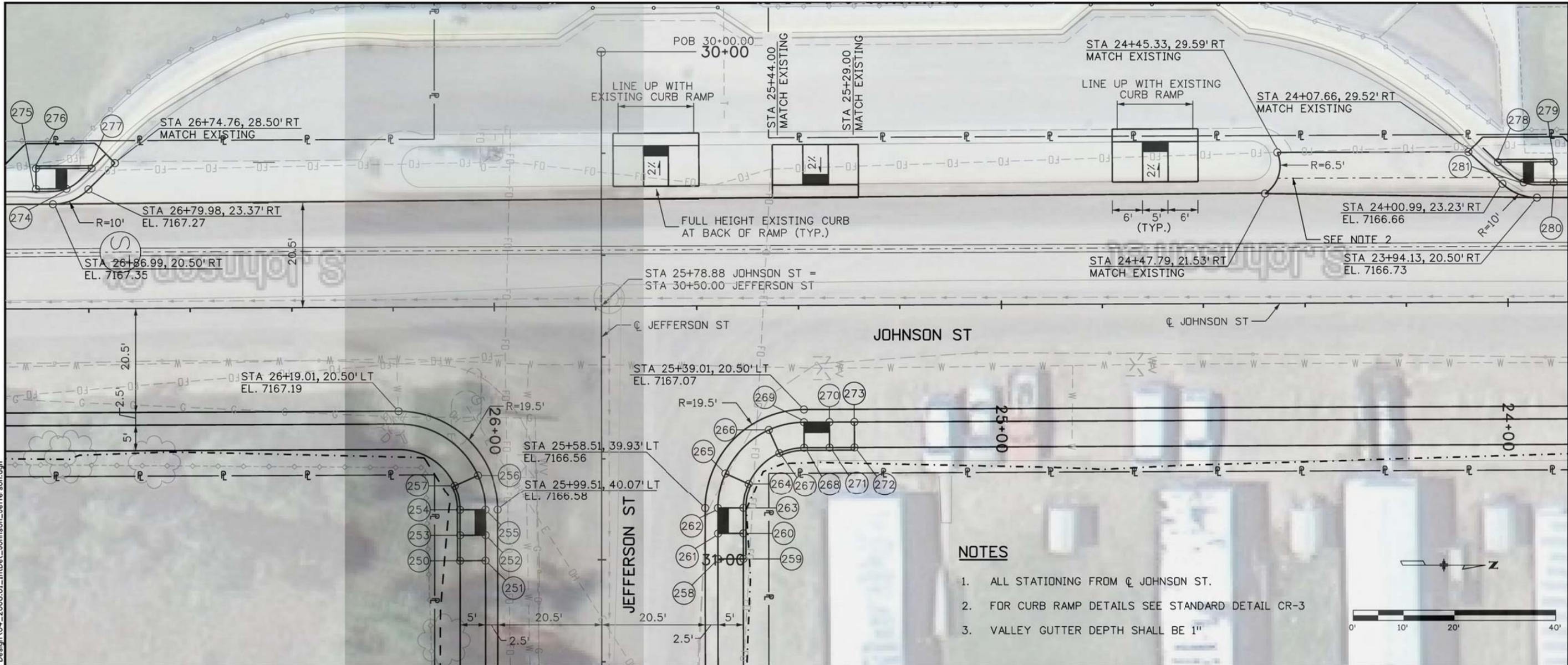
NO.	DESCRIPTION	DATE	
		BY	DATE
1	CONSTRUCTION PLAN SET	JJW	MAR 2016
2	REVISED CONSTRUCTION PLAN SET	JJW	MAY 2016

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	JJW
CHECKED BY	AGM

INTERSECTION DETAILS
WYOMING AVE & JOHNSON ST
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

42 SHEET OF 77
RD-03

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CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
250	JOHNSON ST	26+07.05	50.07	LT	7166.72
251	JOHNSON ST	26+02.05	50.06	LT	7166.62
252	JOHNSON ST	26+02.01	45.06	LT	7166.40
253	JOHNSON ST	26+07.03	45.07	LT	7166.50
254	JOHNSON ST	26+07.01	40.07	LT	7166.62
255	JOHNSON ST	26+02.01	40.06	LT	7166.52
256	JOHNSON ST	26+03.45	33.16	LT	7166.97
257	JOHNSON ST	26+08.03	35.17	LT	7167.07
258	JOHNSON ST	25+56.05	49.94	LT	7166.61
259	JOHNSON ST	25+51.05	49.93	LT	7166.71
260	JOHNSON ST	25+51.03	44.93	LT	7166.49
261	JOHNSON ST	25+56.01	44.94	LT	7166.39
262	JOHNSON ST	25+56.01	39.94	LT	7166.51
263	JOHNSON ST	25+51.01	39.93	LT	7166.61
264	JOHNSON ST	25+49.95	35.05	LT	7167.03
265	JOHNSON ST	25+54.50	32.99	LT	7166.93
266	JOHNSON ST	25+45.93	24.47	LT	7167.24
267	JOHNSON ST	25+43.90	29.04	LT	7167.34
268	JOHNSON ST	25+39.01	28.00	LT	7167.10
269	JOHNSON ST	25+39.01	23.00	LT	7167.00

CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
270	JOHNSON ST	25+34.01	23.00	LT	7166.99
271	JOHNSON ST	25+34.01	28.17	LT	7167.09
272	JOHNSON ST	25+29.01	28.00	LT	7167.42
273	JOHNSON ST	25+29.01	23.00	RT	7167.32
274	JOHNSON ST	26+84.30	23.50	RT	7167.29
275	JOHNSON ST	23+90.30	23.50	RT	7167.63
276	JOHNSON ST	26+90.30	27.50	RT	7167.73
277	JOHNSON ST	26+79.34	27.50	RT	7167.31
278	JOHNSON ST	24+01.88	27.50	RT	7166.97
279	JOHNSON ST	23+90.82	27.50	RT	7167.09
280	JOHNSON ST	23+90.82	23.50	RT	7166.99
281	JOHNSON ST	23+96.82	23.50	RT	7166.67


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 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

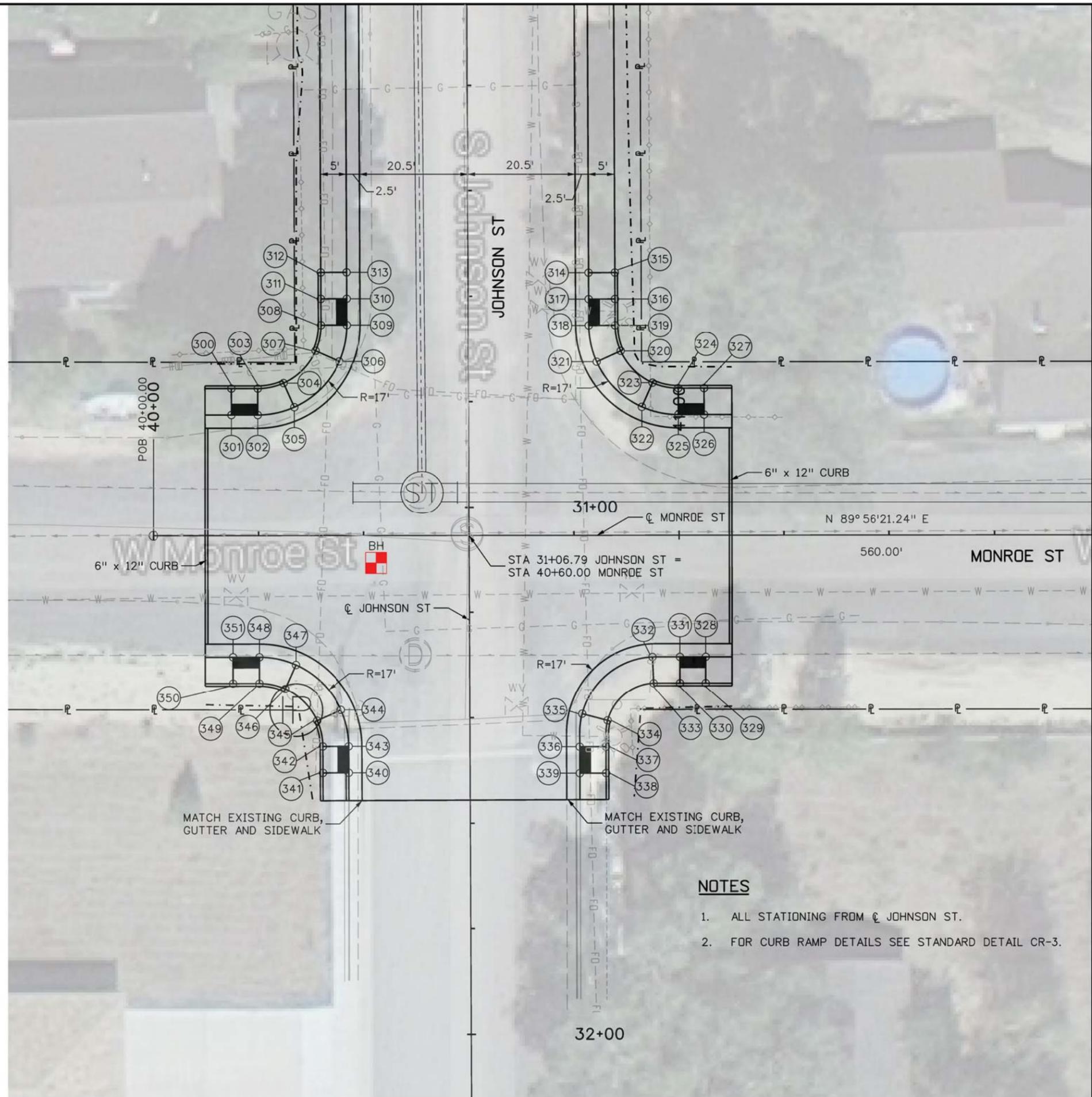
DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

INTERSECTION DETAILS
JEFFERSON ST & JOHNSON ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

43 SHEET OF 77
 RD-04

CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
300	JOHNSON ST	30+77.33	45.04	RT	7167.01
301	JOHNSON ST	20+82.33	45.06	RT	7166.91
302	JOHNSON ST	30+82.35	40.06	RT	7167.01
303	JOHNSON ST	30+77.35	40.04	RT	7167.11
304	JOHNSON ST	30+76.32	25.15	RT	7167.58
305	JOHNSON ST	30+80.90	33.12	RT	7167.48
306	JOHNSON ST	30+72.28	24.48	RT	7167.68
307	JOHNSON ST	30+70.24	29.04	RT	7167.78
308	JOHNSON ST	30+65.35	28.00	RT	7167.40
309	JOHNSON ST	30+65.35	23.00	RT	7167.30
310	JOHNSON ST	30+60.35	23.00	RT	7167.26
311	JOHNSON ST	30+60.35	28.00	RT	7167.36
312	JOHNSON ST	30+55.35	28.00	RT	7167.65
313	JOHNSON ST	30+55.35	23.00	RT	7167.55
314	JOHNSON ST	30+55.62	23.00	LT	7167.55
315	JOHNSON ST	30+55.62	28.00	LT	7167.65
316	JOHNSON ST	30+60.62	28.00	LT	7167.36
317	JOHNSON ST	30+60.62	23.00	LT	7167.26
318	JOHNSON ST	30+65.62	23.00	LT	7167.30
319	JOHNSON ST	30+65.62	28.00	LT	7167.40
320	JOHNSON ST	30+70.51	29.04	LT	7167.78
321	JOHNSON ST	30+72.54	24.48	LT	7167.68
322	JOHNSON ST	30+81.12	33.02	LT	7167.49
323	JOHNSON ST	30+76.56	35.07	LT	7167.59
324	JOHNSON ST	30+77.62	39.96	LT	7167.12
325	JOHNSON ST	30+82.62	39.94	LT	7167.02
326	JOHNSON ST	30+82.63	44.94	LT	7166.92
327	JOHNSON ST	30+77.63	44.96	LT	7167.01
328	JOHNSON ST	31+28.63	45.06	LT	7166.90
329	JOHNSON ST	31+33.63	45.04	LT	7167.00
330	JOHNSON ST	30+33.62	40.04	LT	7167.10
331	JOHNSON ST	31+28.62	40.06	LT	7167.00
332	JOHNSON ST	31+28.61	34.84	LT	7167.46
333	JOHNSON ST	31+33.61	35.04	LT	7167.56
334	JOHNSON ST	31+40.64	26.25	LT	7167.81
335	JOHNSON ST	31+39.35	21.42	LT	7167.71
336	JOHNSON ST	31+45.62	20.93	LT	7167.34
337	JOHNSON ST	31+45.62	25.93	LT	7167.44
338	JOHNSON ST	31+50.62	25.93	LT	7167.41
339	JOHNSON ST	31+50.62	20.93	LT	7167.31
340	JOHNSON ST	31+50.35	23.00	RT	7167.20
341	JOHNSON ST	30+50.35	28.00	RT	7167.30
342	JOHNSON ST	31+45.35	28.00	RT	7167.34
343	JOHNSON ST	31+45.35	23.00	RT	7167.24
344	JOHNSON ST	31+38.42	24.48	RT	7167.63
345	JOHNSON ST	31+40.46	29.04	RT	7167.73
346	JOHNSON ST	31+34.41	35.07	RT	7167.56
347	JOHNSON ST	31+29.85	33.02	RT	7167.46
348	JOHNSON ST	31+28.35	39.94	RT	7167.00
349	JOHNSON ST	31+33.35	39.96	RT	7167.10
350	JOHNSON ST	31+33.33	44.96	RT	7167.00
351	JOHNSON ST	31+28.33	44.94	RT	7166.90



NOTES

1. ALL STATIONING FROM CL JOHNSON ST.
2. FOR CURB RAMP DETAILS SEE STANDARD DETAIL CR-3.



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 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJW

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJW
 CHECKED BY: AGM

INTERSECTION DETAILS
JOHNSON ST & MONROE ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

44 SHEET OF 77
 RD-05

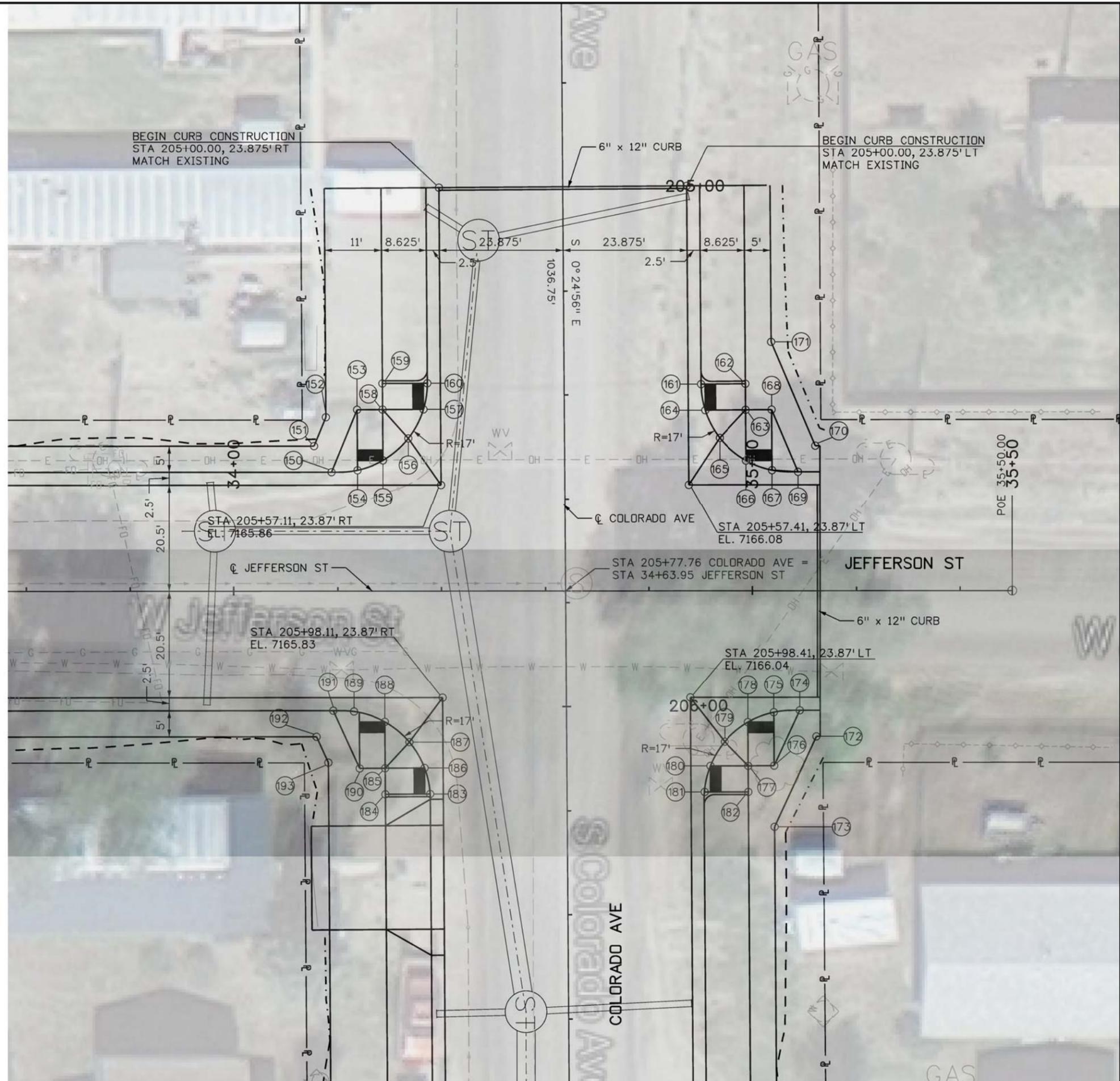
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CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
150	COLORADO AVE	205+54.48	44.99	RT	7165.66
151	COLORADO AVE	205+49.45	48.31	RT	7165.73
152	COLORADO AVE	205+43.93	46.00	RT	7166.40
153	COLORADO AVE	205+42.55	40.00	RT	7166.29
154	COLORADO AVE	205+54.15	40.00	RT	7165.42
155	COLORADO AVE	205+52.28	35.00	RT	7165.51
156 (TOC)	COLORADO AVE	205+48.10	30.10	RT	7166.01
157	COLORADO AVE	205+42.56	27.15	RT	7165.66
158	COLORADO AVE	205+42.55	35.00	RT	7166.29
159	COLORADO AVE	205+37.55	35.00	RT	7166.29
160	COLORADO AVE	205+37.56	26.37	RT	7165.61
161	COLORADO AVE	205+38.11	26.37	LT	7165.85
162	COLORADO AVE	205+38.09	35.00	LT	7166.51
163	COLORADO AVE	205+43.09	35.00	LT	7166.50
164	COLORADO AVE	205+43.11	27.15	LT	7165.87
165 (TOC)	COLORADO AVE	205+48.43	29.93	LT	7166.37
166	COLORADO AVE	205+52.83	35.00	LT	7165.87
167	COLORADO AVE	205+54.70	40.00	LT	7165.81
168	COLORADO AVE	205+43.09	40.00	LT	7166.70
169	COLORADO AVE	205+55.05	44.99	LT	7166.09
170	COLORADO AVE	205+50.07	48.33	LT	7166.15
171	COLORADO AVE	205+30.11	40.00	LT	7166.56
172	COLORADO AVE	206+06.07	48.15	LT	7166.15
173	COLORADO AVE	206+23.33	40.00	LT	7166.24
174	COLORADO AVE	206+01.05	44.99	LT	7166.08
175	COLORADO AVE	206+01.37	40.00	LT	7165.81
176	COLORADO AVE	206+11.62	40.00	LT	7166.36
177	COLORADO AVE	206+11.62	35.00	LT	7166.26
178	COLORADO AVE	206+03.24	35.00	LT	7165.86
179 (TOC)	COLORADO AVE	206+06.96	30.47	LT	7166.17
180	COLORADO AVE	206+11.57	27.65	LT	7165.67
181	COLORADO AVE	206+11.57	27.65	LT	7165.55
182	COLORADO AVE	206+16.62	35.00	LT	7166.23
183	COLORADO AVE	206+16.57	26.40	RT	7165.53
184	COLORADO AVE	206+16.57	35.00	RT	7166.21
185	COLORADO AVE	206+11.57	35.00	RT	7166.20
186	COLORADO AVE	206+11.57	27.44	RT	7165.59
187 (TOC)	COLORADO AVE	206+06.60	30.32	RT	7166.04
188	COLORADO AVE	206+02.69	35.00	RT	7165.54
189	COLORADO AVE	206+00.83	40.00	RT	7165.41
190	COLORADO AVE	206+11.57	40.00	RT	7166.30
191	COLORADO AVE	206+00.47	45.00	RT	7165.66
192	COLORADO AVE	206+05.46	48.23	RT	7165.73
193	COLORADO AVE	206+10.42	46.00	RT	7166.35

NOTES

- ALL STATIONING FROM C COLORADO AVE.
- SEE SP-01 FOR CURB RAMP DETAILS





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(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JWW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JWW

DATE: MAY 2016

PROJECT NO.: 32710207

CITY: LARAMIE

COUNTY: ALBANY

STATE: WYOMING

DESIGNED BY: JWW

CHECKED BY: AGM

INTERSECTION DETAILS
COLORADO AVE & JEFFERSON ST
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

45 SHEET OF 77
RD-06

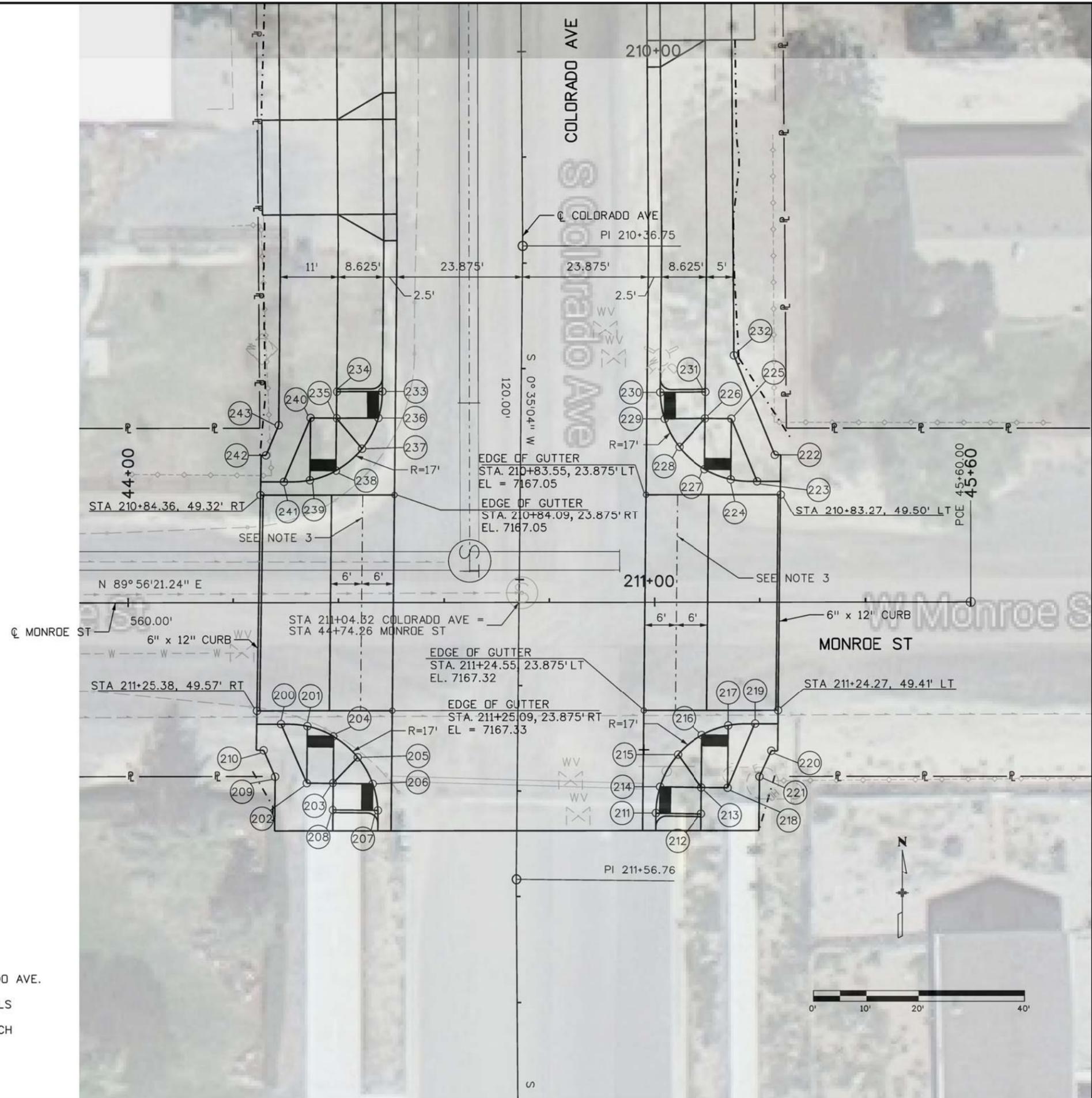
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CURB RAMPS GEOMETRIC DATA

POINT NUMBER	ROADWAY	STATION	OFFSET	SIDE	ELEVATION
200	COLORADO AVE	211+27.84	45.00	RT	7167.42
201	COLORADO AVE	211+28.19	40.00	RT	7167.19
202	COLORADO AVE	211+38.97	40.00	RT	7168.08
203	COLORADO AVE	211+38.97	35.00	RT	7167.98
204	COLORADO AVE	211+30.05	35.00	RT	7167.29
205 (TOC)	COLORADO AVE	211+33.92	30.32	RT	7167.85
206	COLORADO AVE	211+38.93	27.44	RT	7167.37
207	COLORADO AVE	211+43.95	26.40	RT	7167.42
208	COLORADO AVE	211+43.95	35.00	RT	7168.10
209	COLORADO AVE	211+37.81	46.00	RT	7168.26
210	COLORADO AVE	211+32.84	48.23	RT	7167.58
211	COLORADO AVE	211+43.91	26.38	LT	7167.43
212	COLORADO AVE	211+43.98	35.00	LT	7168.11
213	COLORADO AVE	211+38.99	35.00	LT	7168.00
214	COLORADO AVE	211+38.92	27.11	LT	7167.37
215 (TOC)	COLORADO AVE	211+32.81	30.48	LT	7167.76
216	COLORADO AVE	211+29.08	35.00	LT	7167.28
217	COLORADO AVE	211+27.22	40.00	LT	7167.18
218	COLORADO AVE	211+38.97	40.00	LT	7168.10
219	COLORADO AVE	211+26.88	44.99	LT	7167.42
220	COLORADO AVE	211+31.93	48.20	LT	7167.52
221	COLORADO AVE	211+36.80	46.00	LT	7168.20
222	COLORADO AVE	210+75.77	48.28	LT	7167.24
223	COLORADO AVE	210+80.81	45.00	LT	7167.14
224	COLORADO AVE	210+80.55	40.00	LT	7166.91
225	COLORADO AVE	210+69.05	40.00	LT	7167.62
226	COLORADO AVE	210+69.05	35.00	LT	7167.52
227	COLORADO AVE	210+78.63	35.00	LT	7167.01
228 (TOC)	COLORADO AVE	210+74.46	30.15	LT	7167.51
229	COLORADO AVE	210+69.23	27.28	LT	7166.90
230	COLORADO AVE	210+64.27	26.38	LT	7166.88
231	COLORADO AVE	210+64.04	35.00	LT	7167.56
232	COLORADO AVE	210+57.13	40.36	LT	7167.69
233	COLORADO AVE	210+64.58	26.37	RT	7166.88
234	COLORADO AVE	210+64.71	35.00	RT	7167.56
235	COLORADO AVE	210+69.71	35.00	RT	7167.54
236	COLORADO AVE	210+69.63	27.06	RT	7166.90
237 (TOC)	COLORADO AVE	210+75.37	30.10	RT	7167.40
238	COLORADO AVE	210+79.59	35.00	RT	7167.01
239	COLORADO AVE	210+81.51	40.00	RT	7166.91
240	COLORADO AVE	210+69.71	40.00	RT	7167.64
241	COLORADO AVE	210+81.82	45.00	RT	7167.14
242	COLORADO AVE	210+76.80	48.35	RT	7167.24
243	COLORADO AVE	210+71.14	46.00	RT	7167.74

NOTES

1. ALL STATIONING FROM C COLORADO AVE.
2. SEE SP-01 FOR CURB RAMP DETAILS
3. CROSS PAN DEPTH SHALL BE 1 INCH




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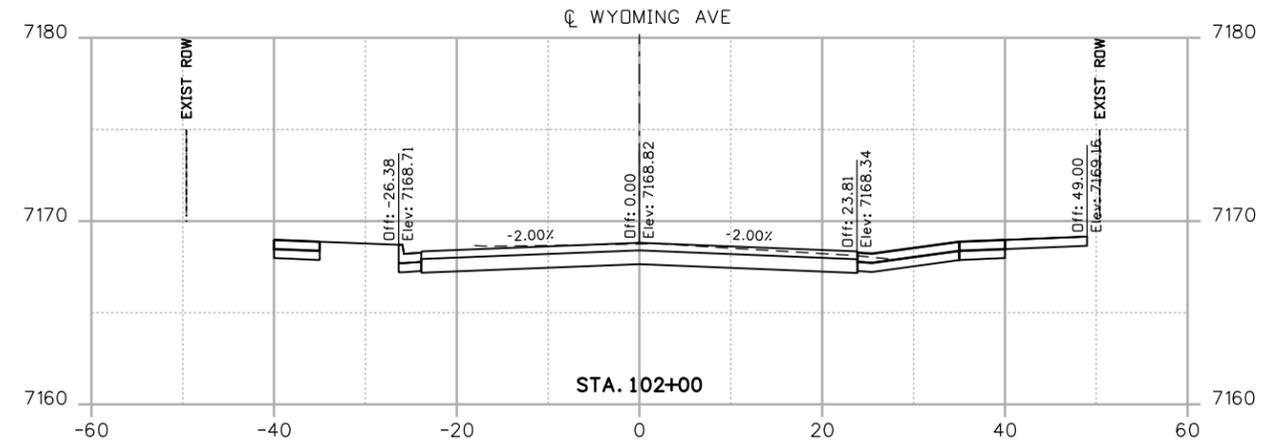
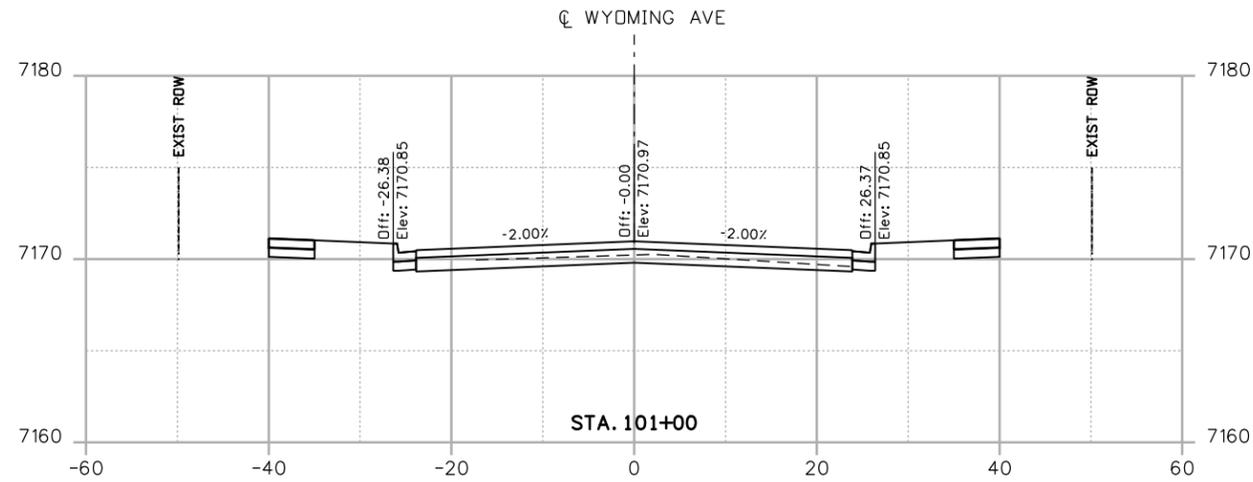
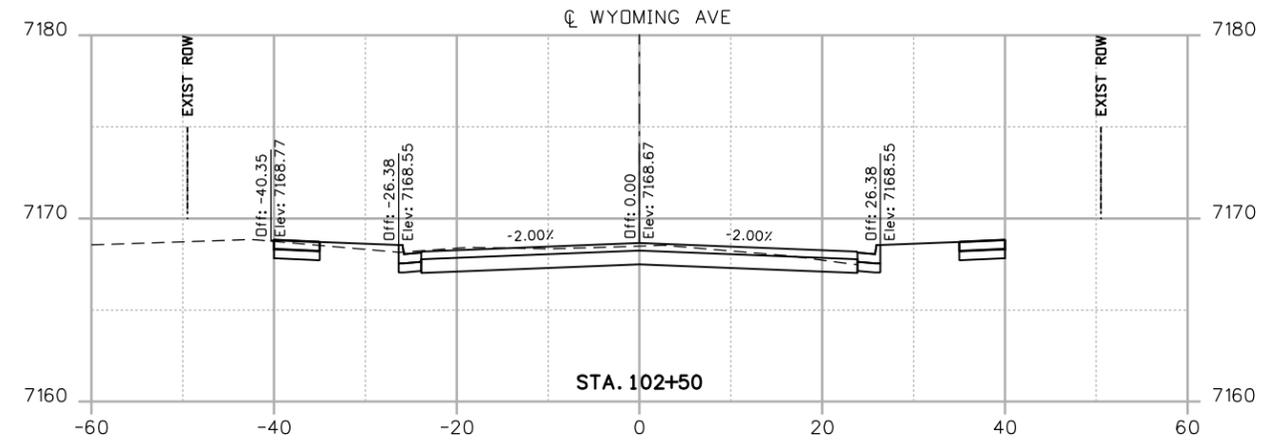
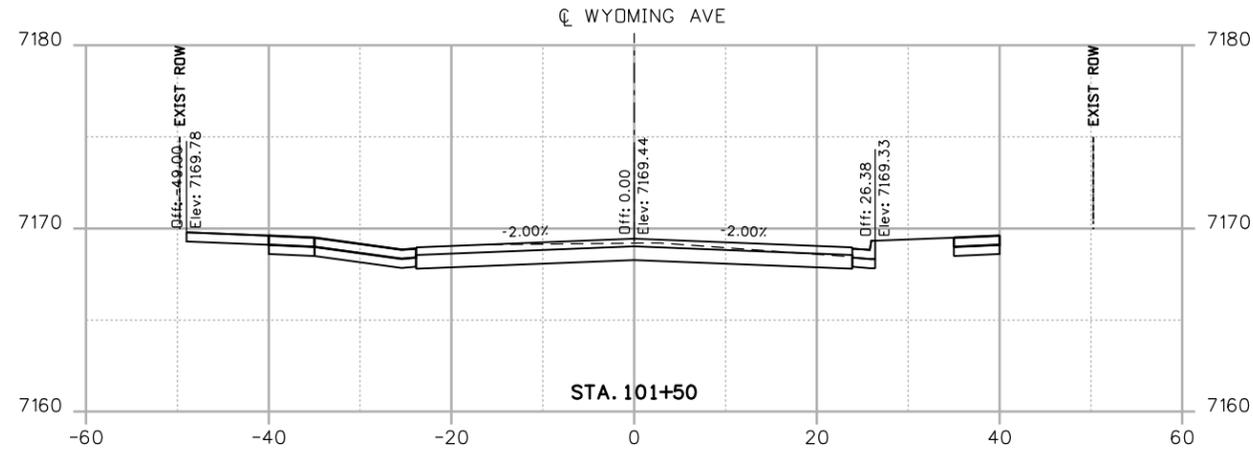
NO.	DESCRIPTION	DATE
1	CONSTRUCTION PLAN SET	MAR 2016 JJJ
2	REVISED CONSTRUCTION PLAN SET	MAY 2016 JJJ

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: JJJ
 CHECKED BY: AGM

INTERSECTION DETAILS
COLORADO AVE & MONROE ST
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

46 SHEET OF 77
 RD-07

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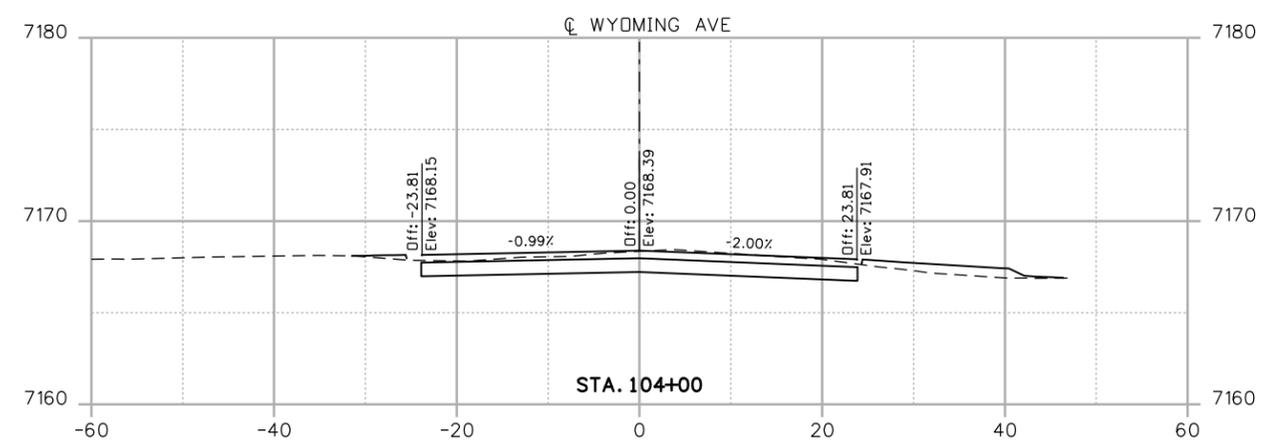
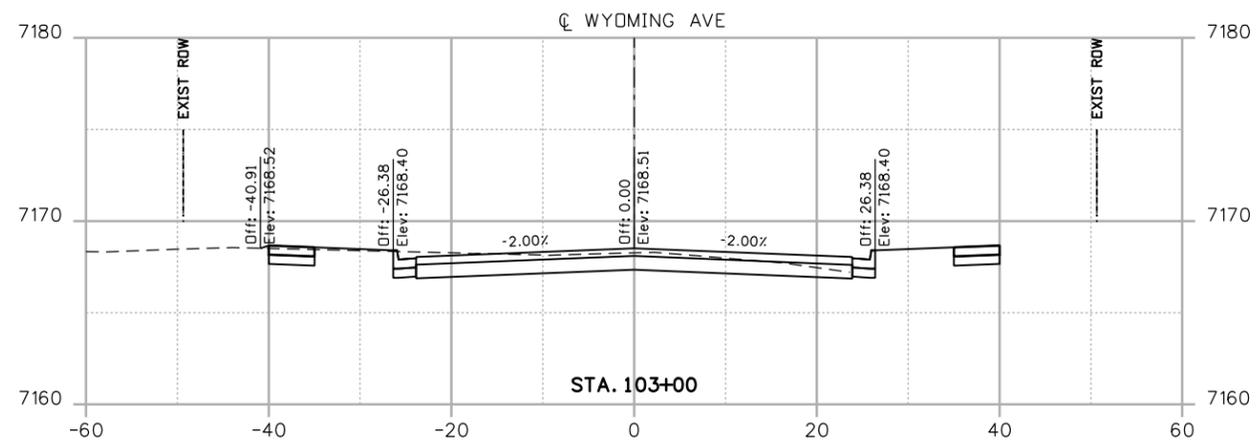
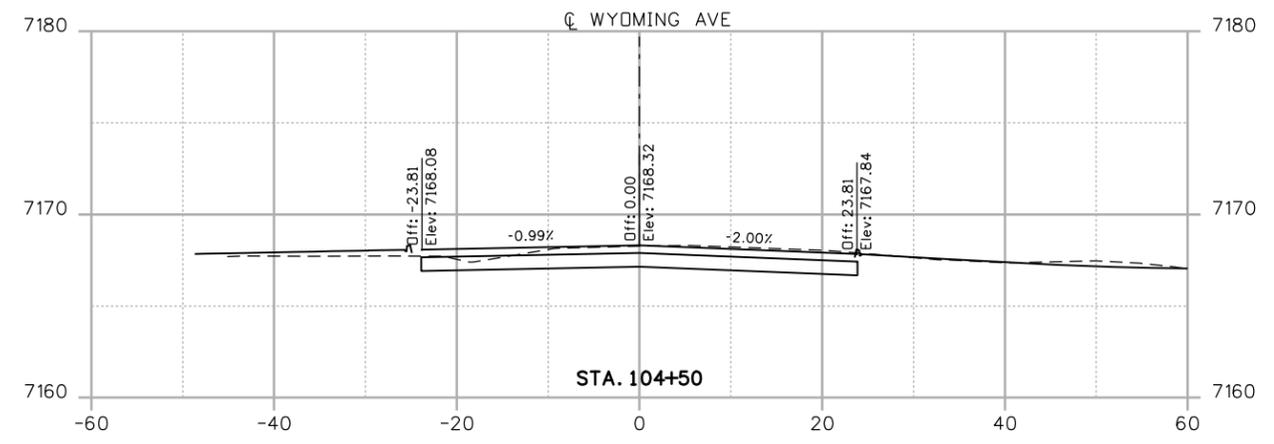
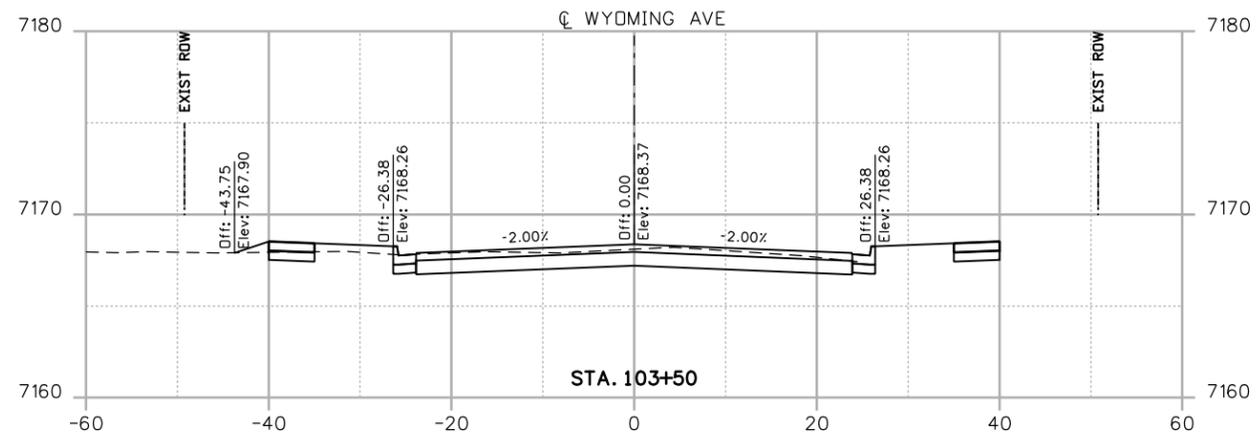
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CITY OF LARAMIE
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LARAMIE, WY 82073
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CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
WYOMING AVE 1 OF 5
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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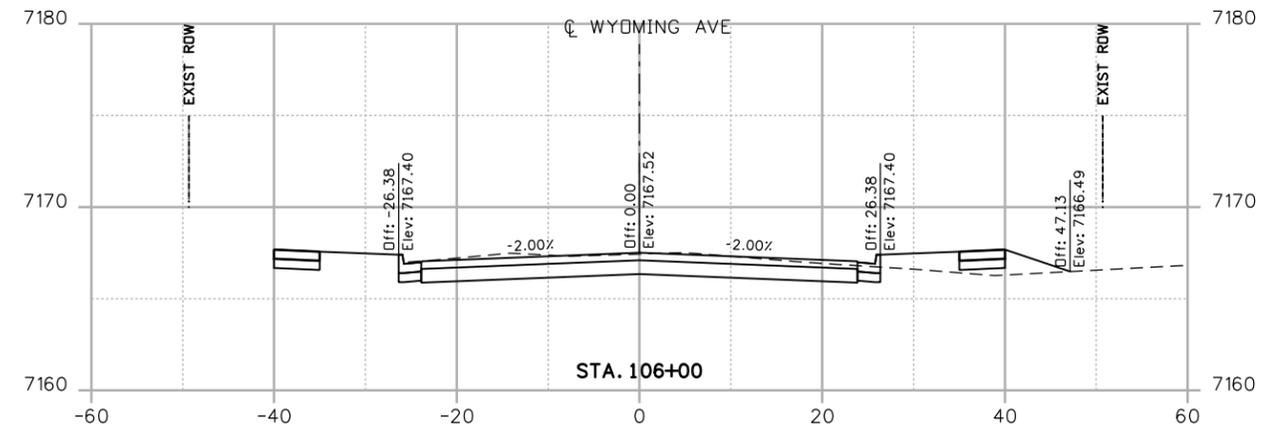
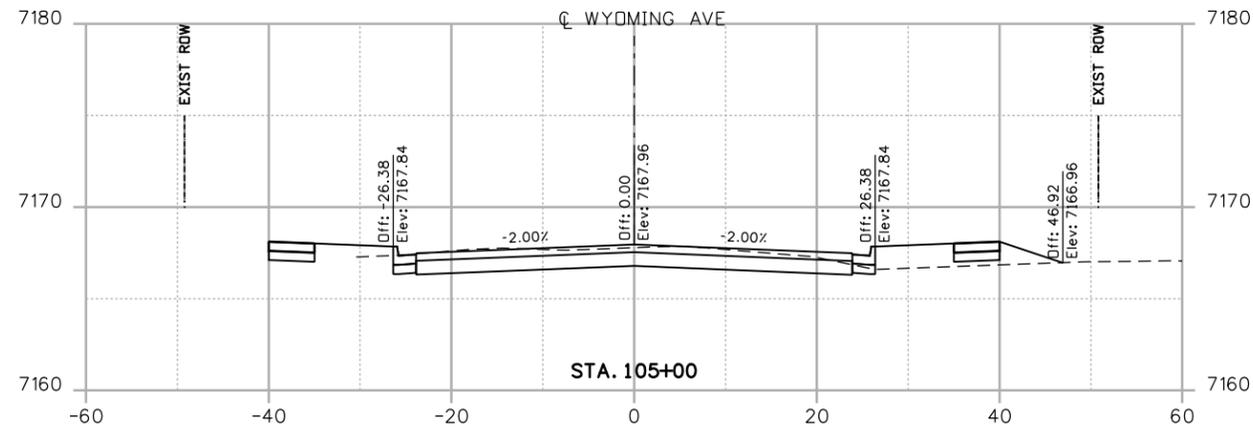
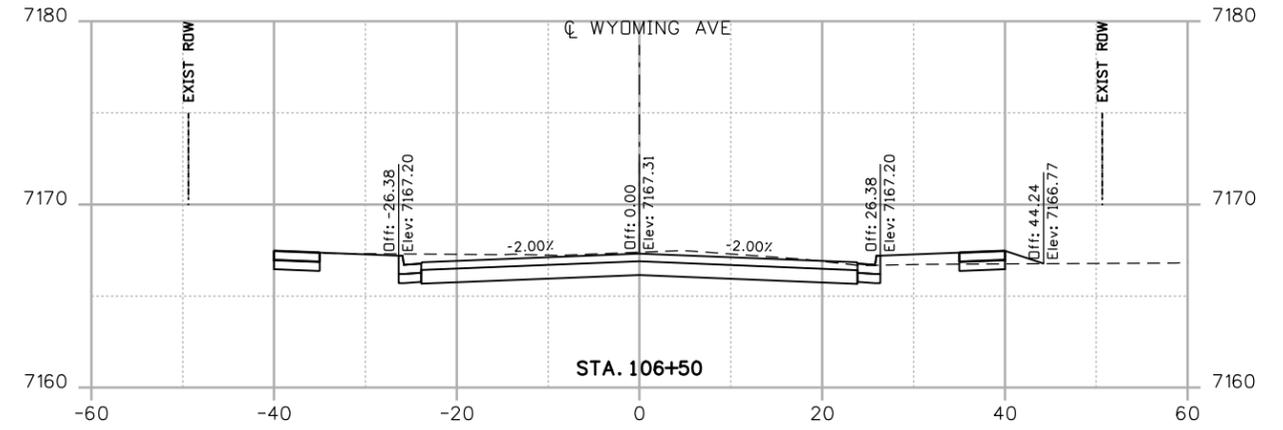
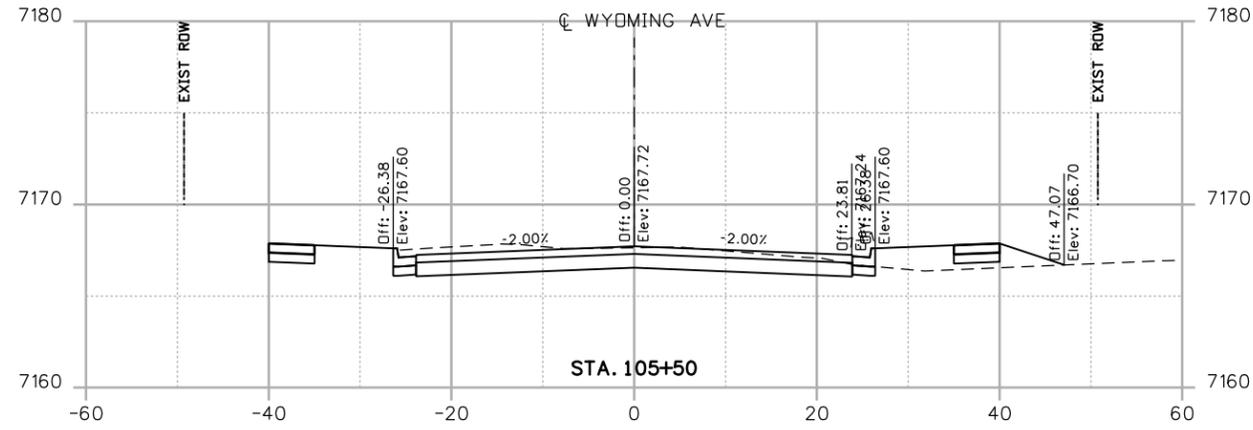
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 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO. 2068.01
 CITY LARAMIE
 COUNTY ALBANY
 STATE WYOMING
 DESIGNED BY
 CHECKED BY

CROSS SECTIONS
 WYOMING AVE 2 OF 5
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.

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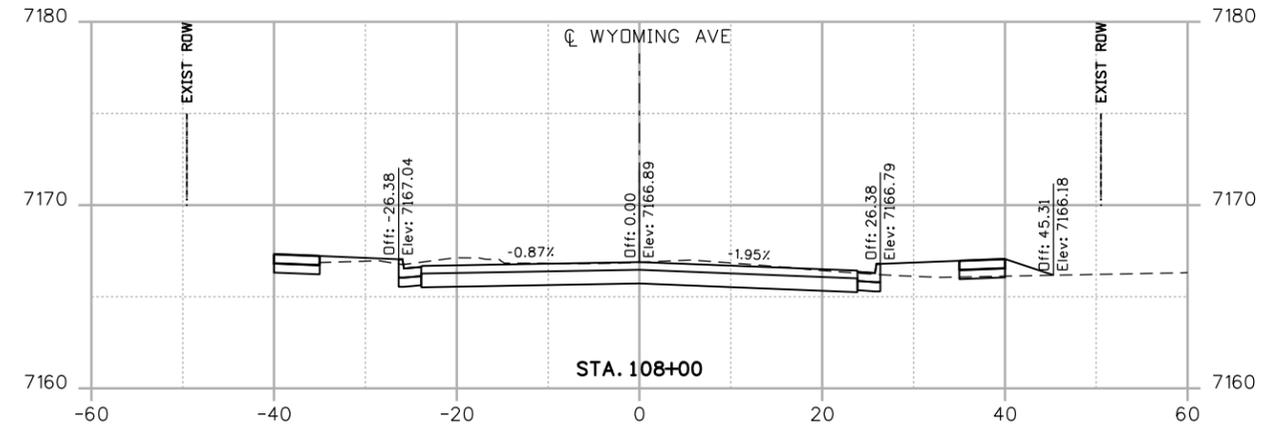
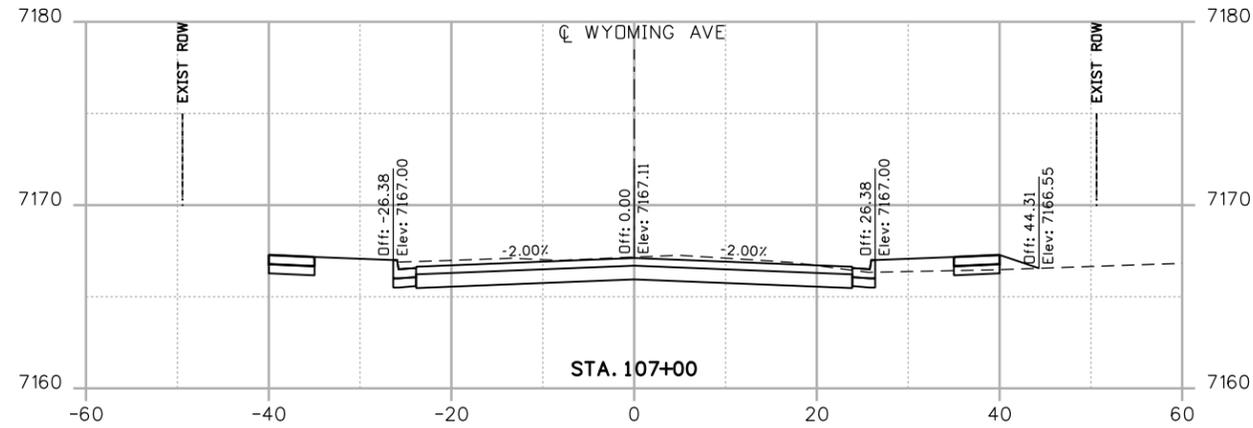
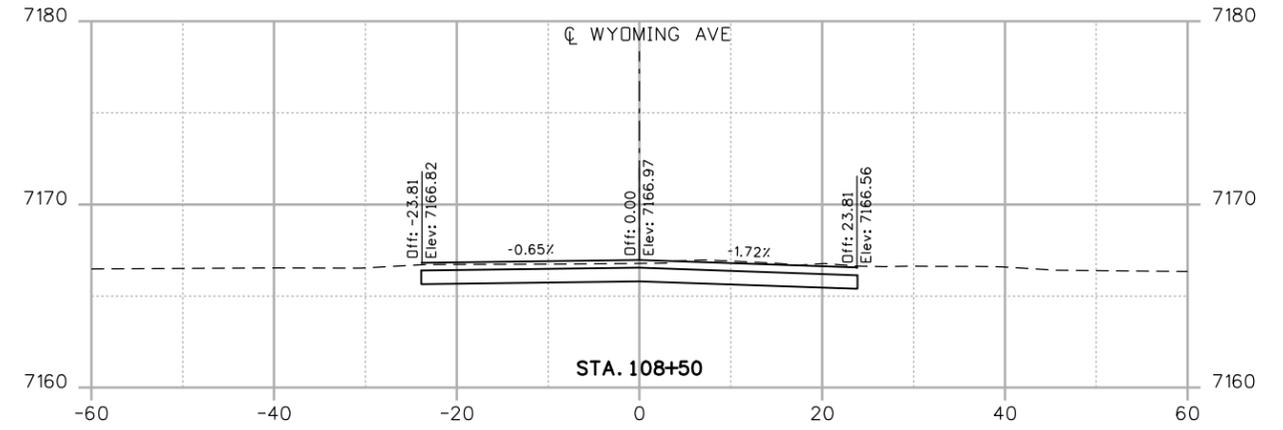
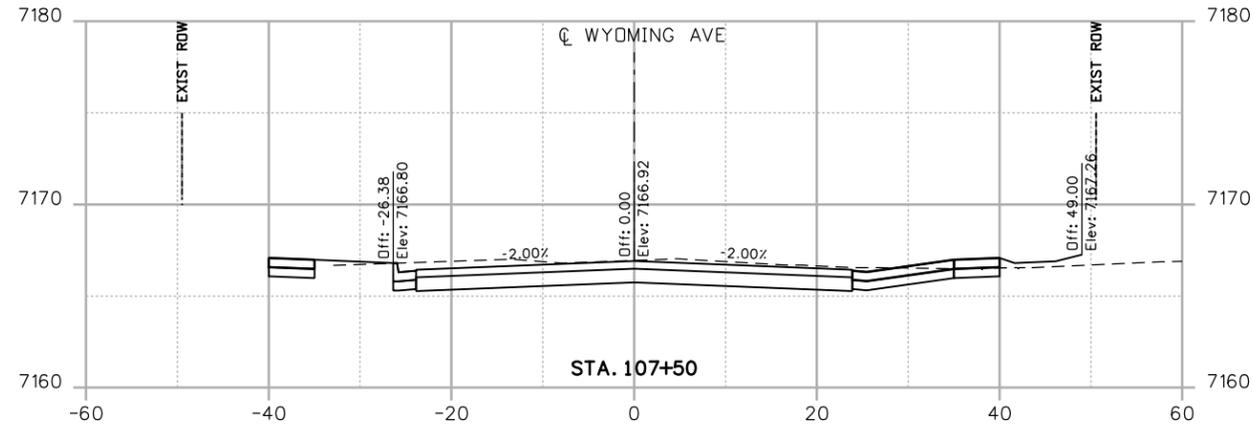
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
WYOMING AVE 3 OF 5
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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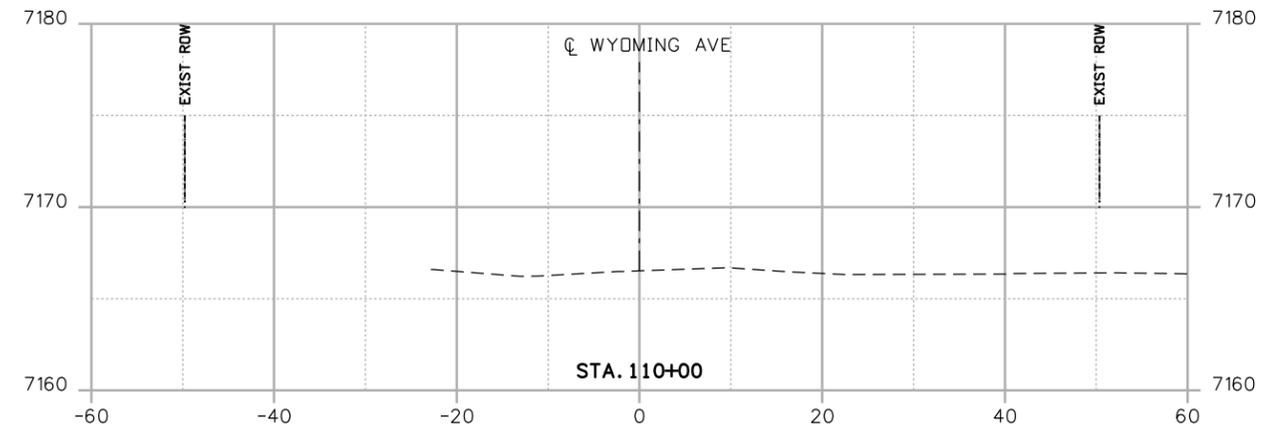
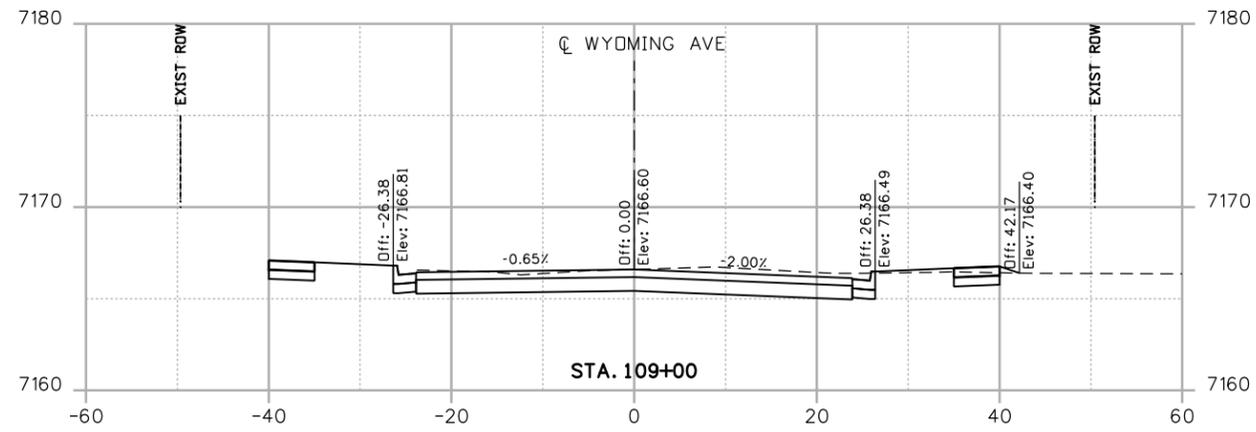
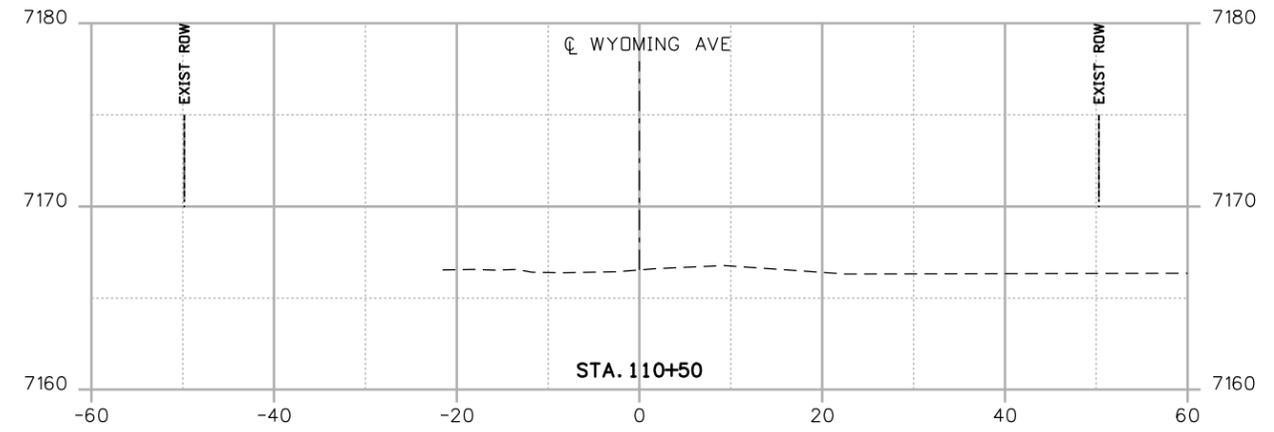
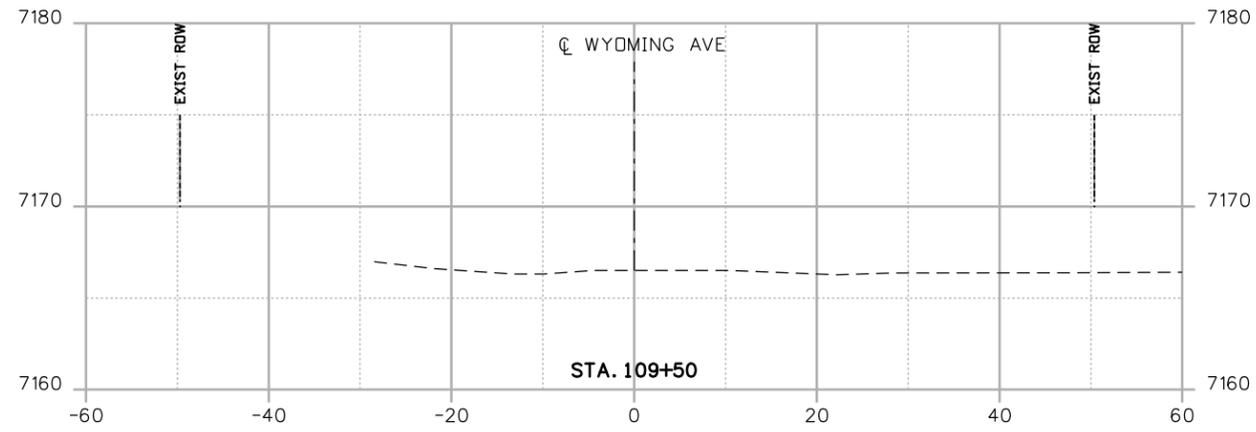
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
WYOMING AVE 4 OF 5
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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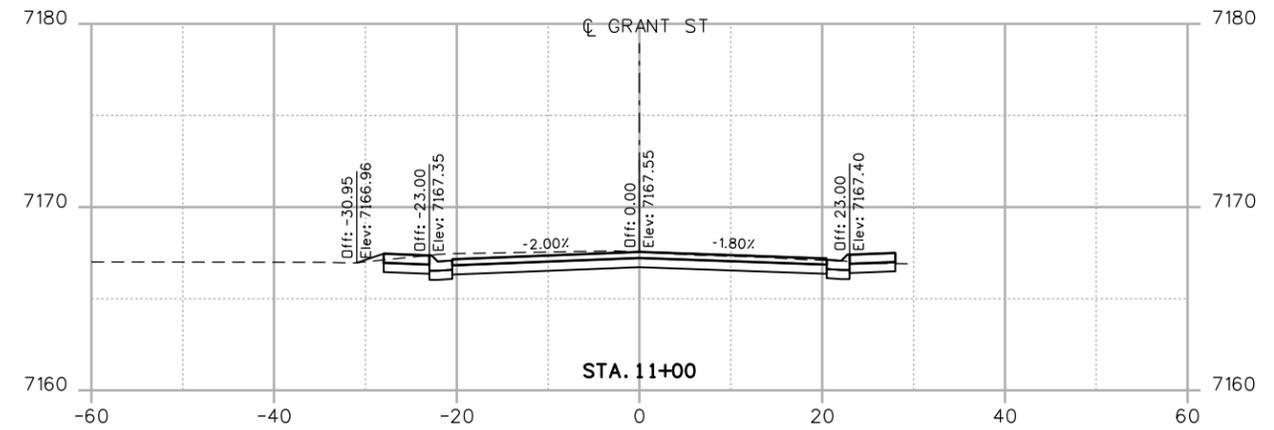
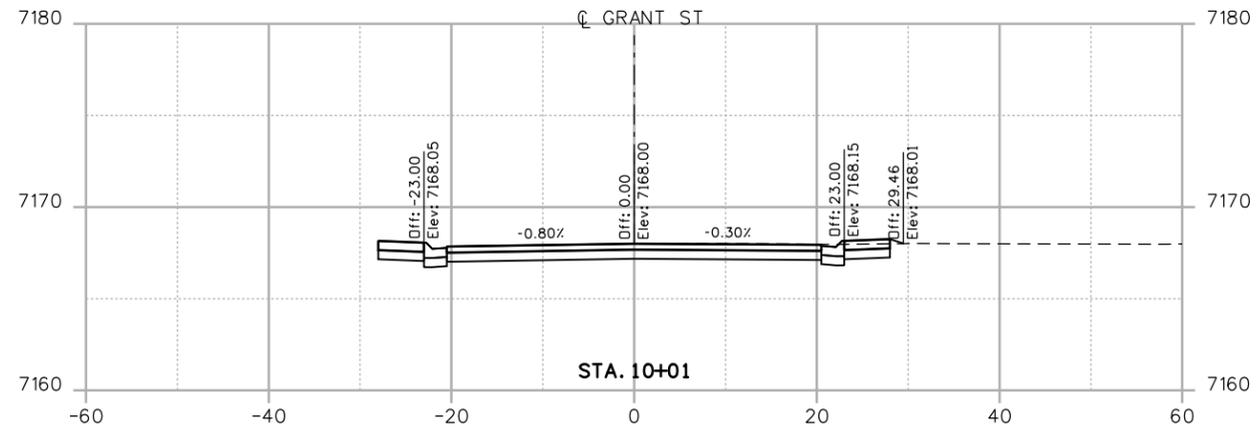
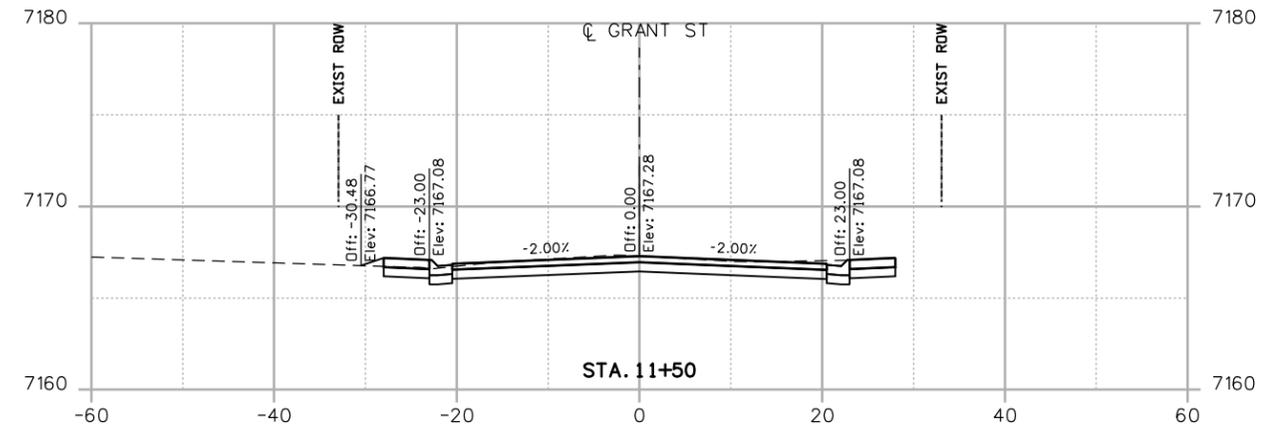
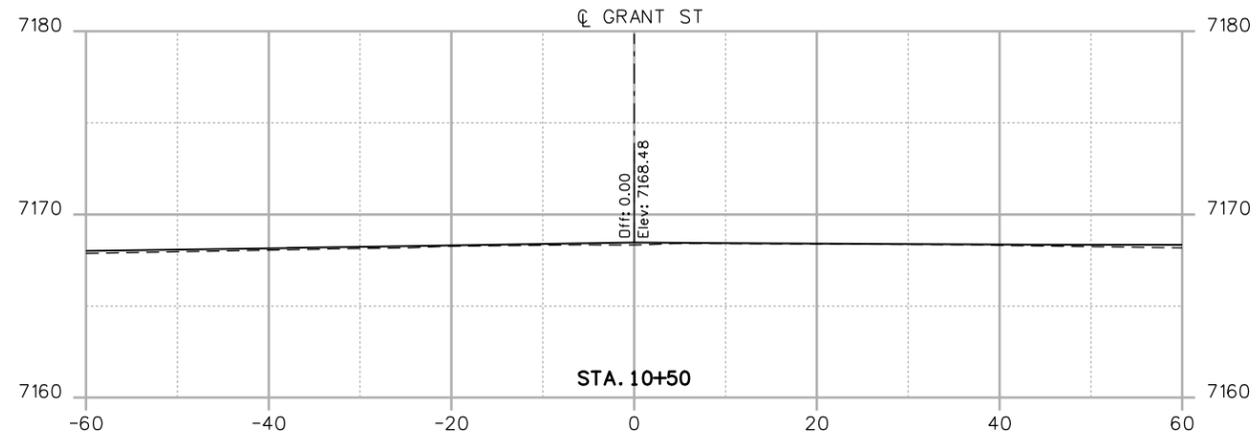
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405 GRAND AVENUE
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(307) 721-5345
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
WYOMING AVE 5 OF 5
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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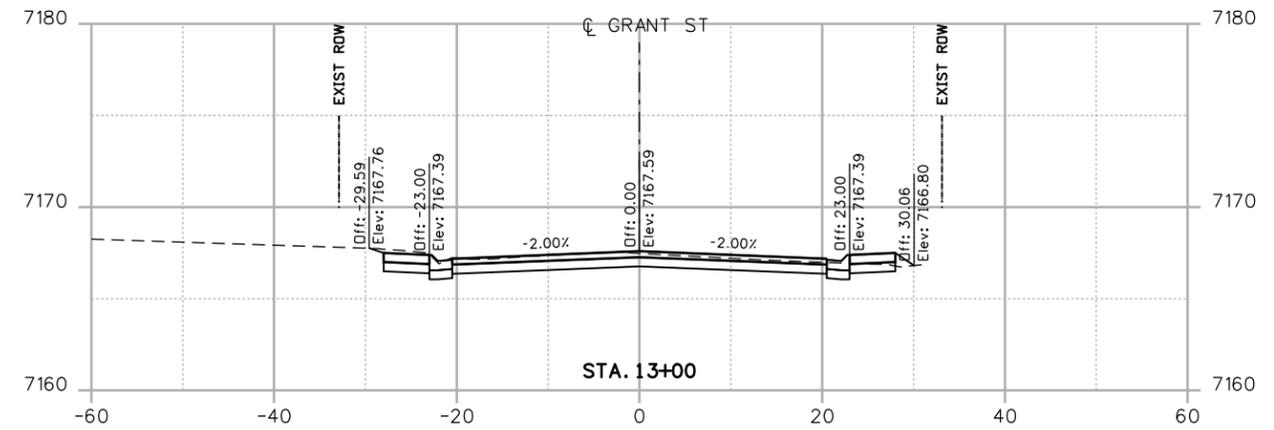
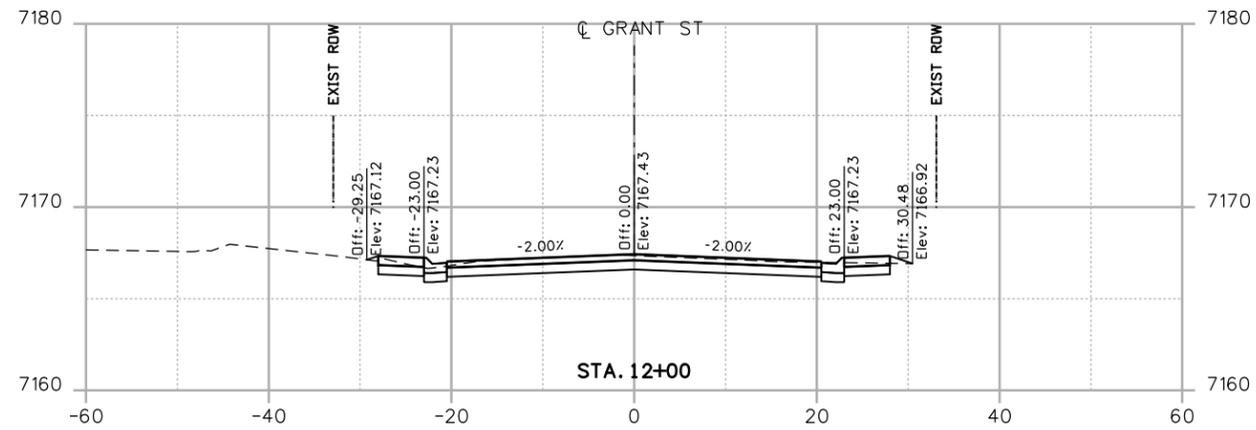
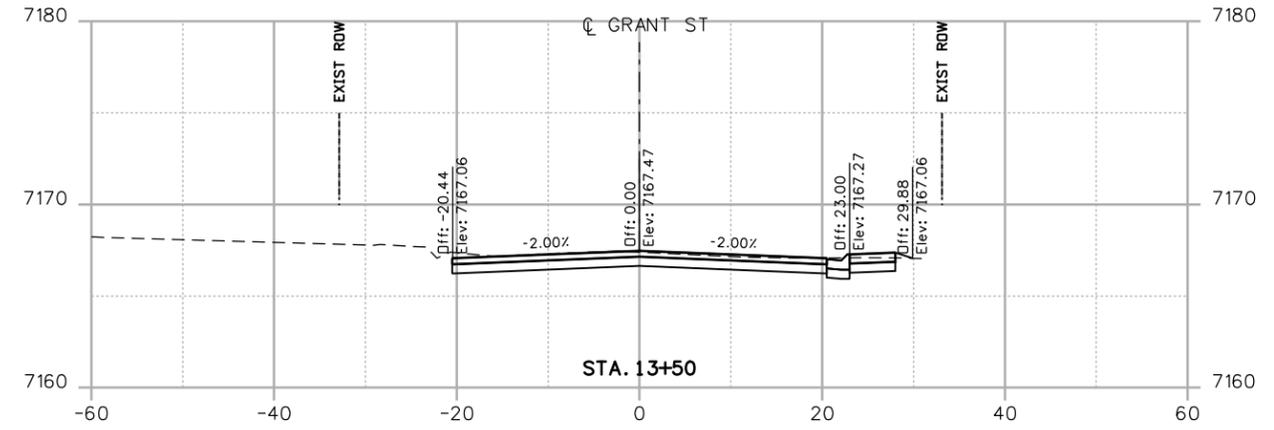
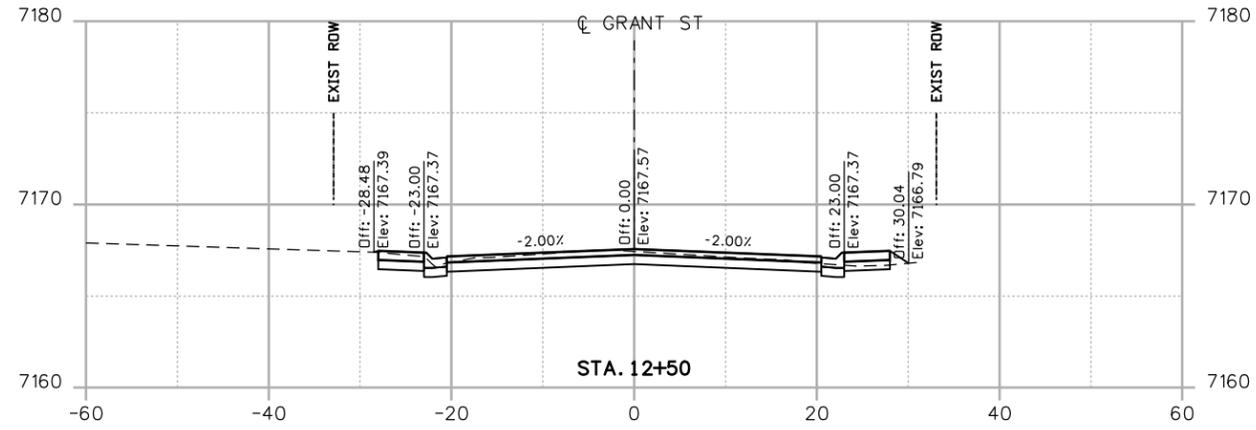
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405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
GRANT ST 1 OF 3
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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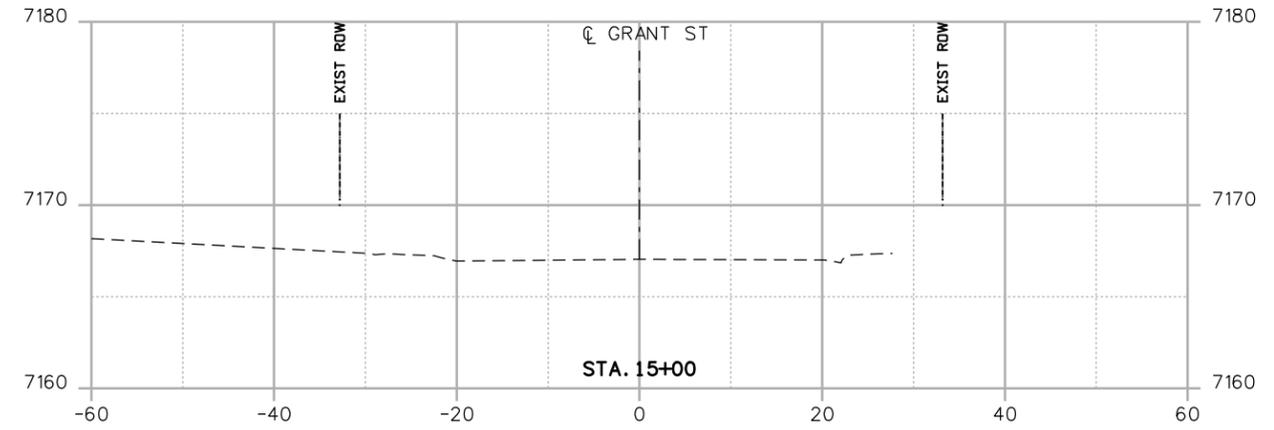
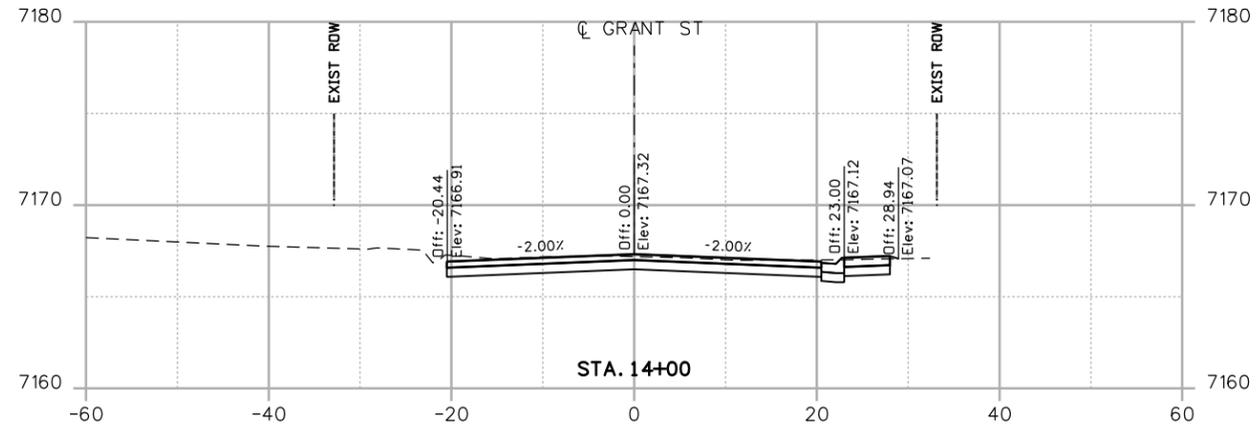
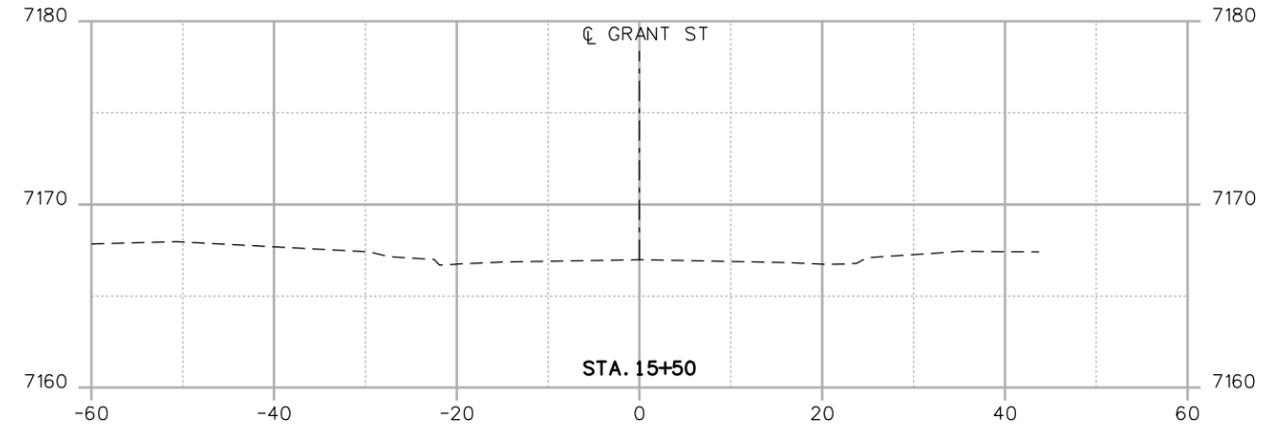
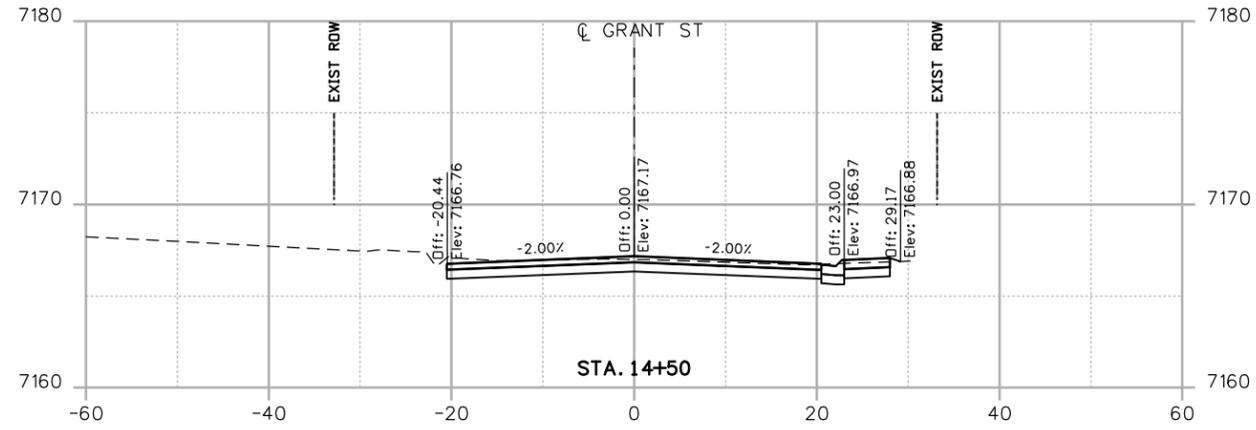
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PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
GRANT ST 2 OF 3
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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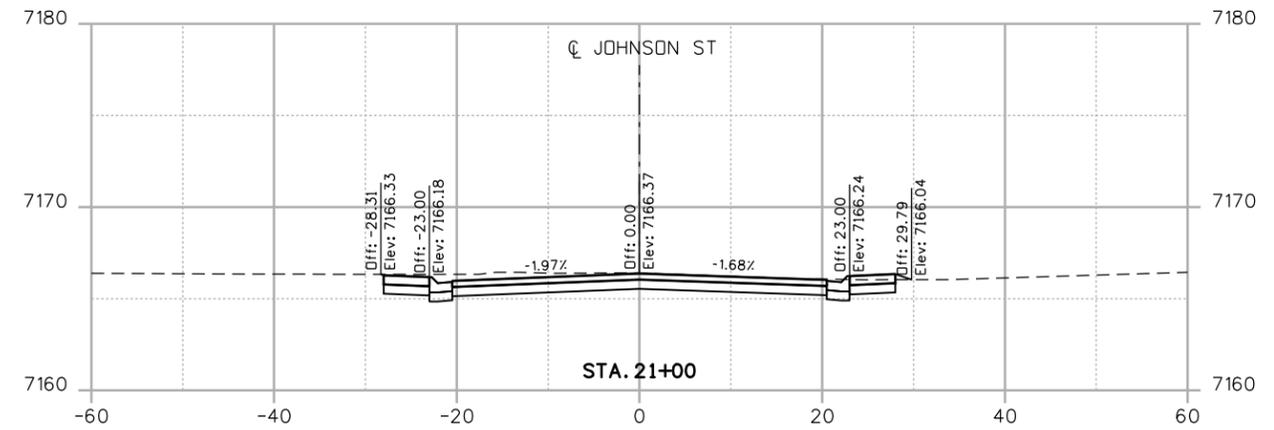
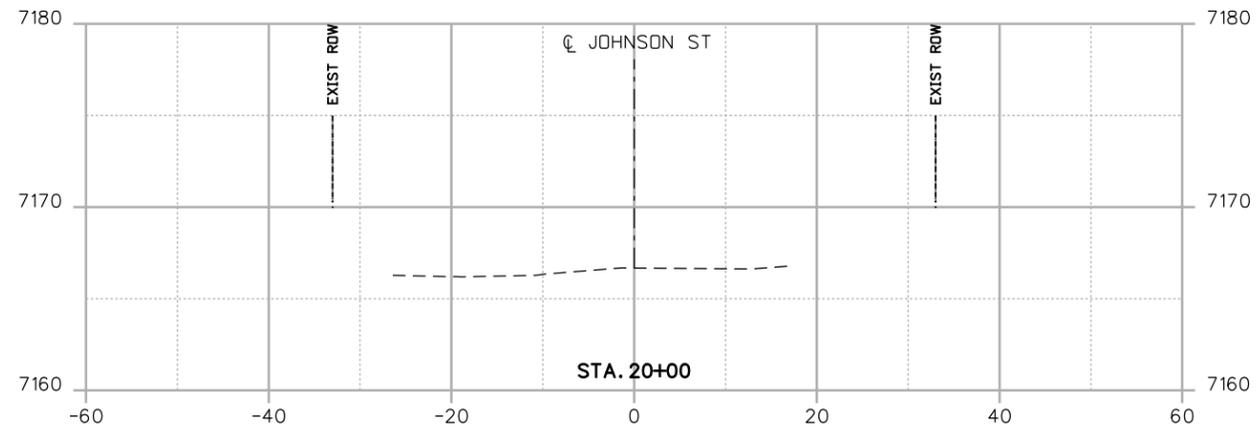
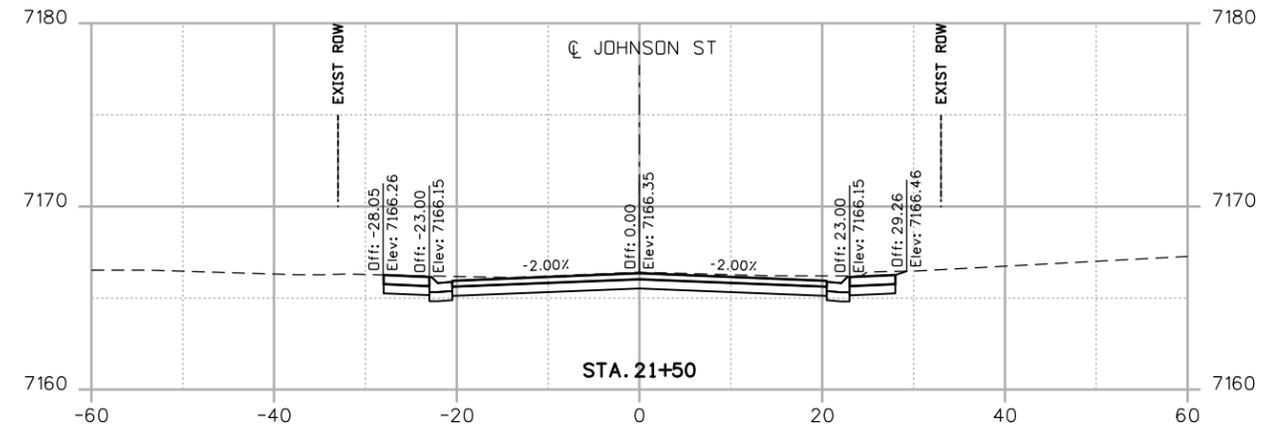
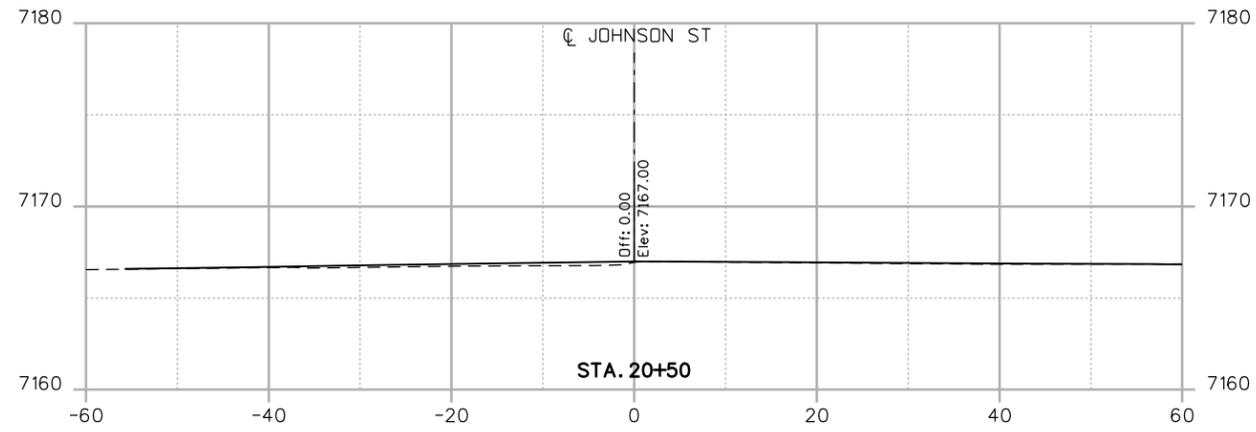
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PO BOX C
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(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

**CROSS SECTIONS
GRANT ST 3 OF 3**
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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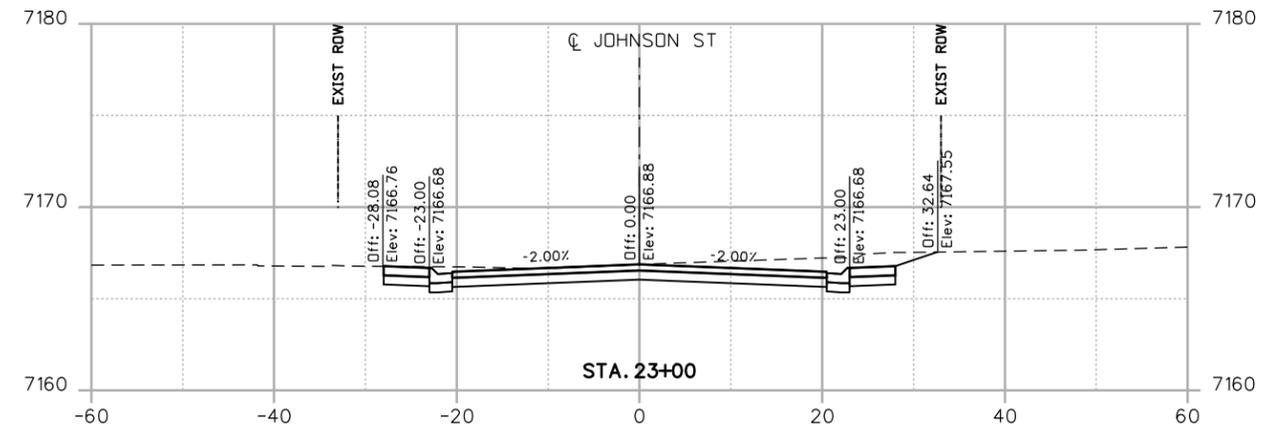
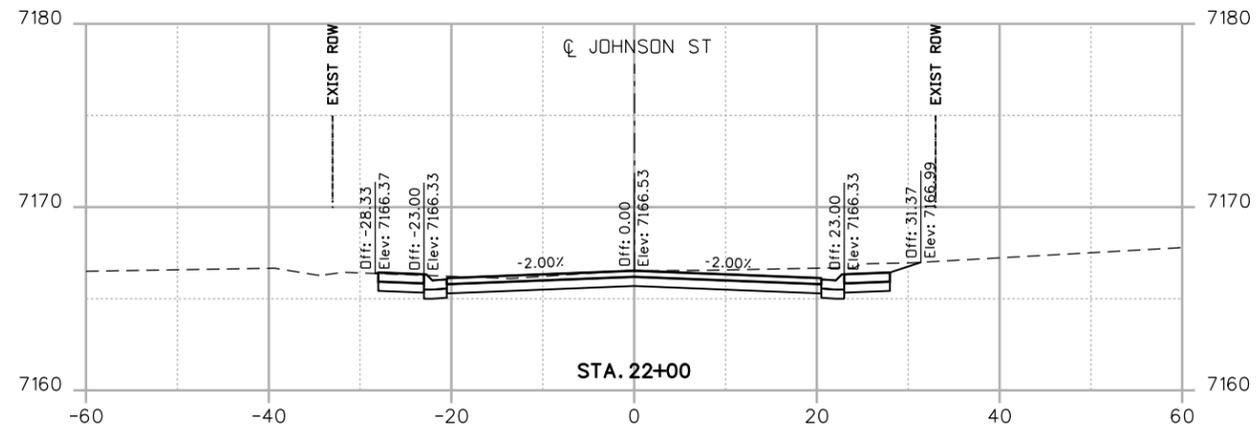
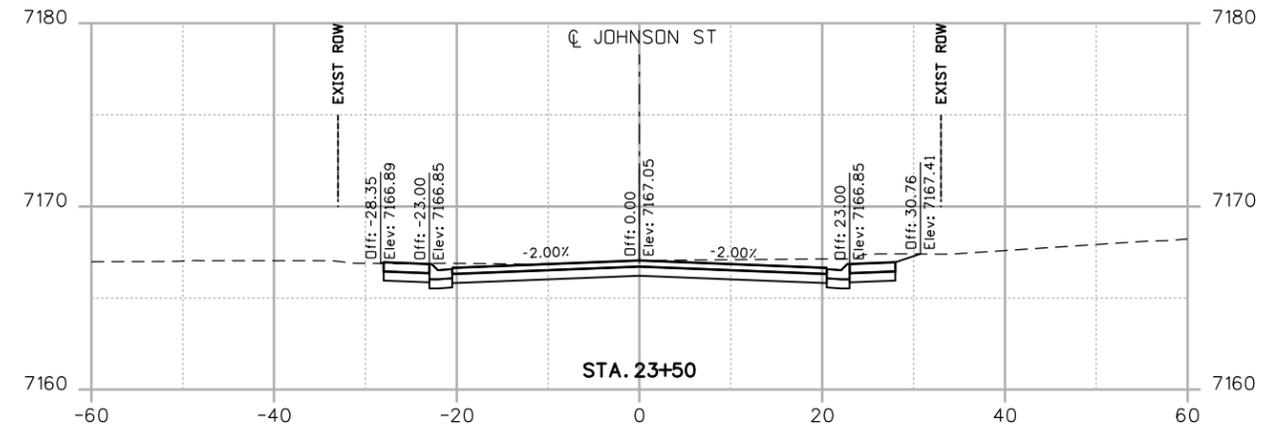
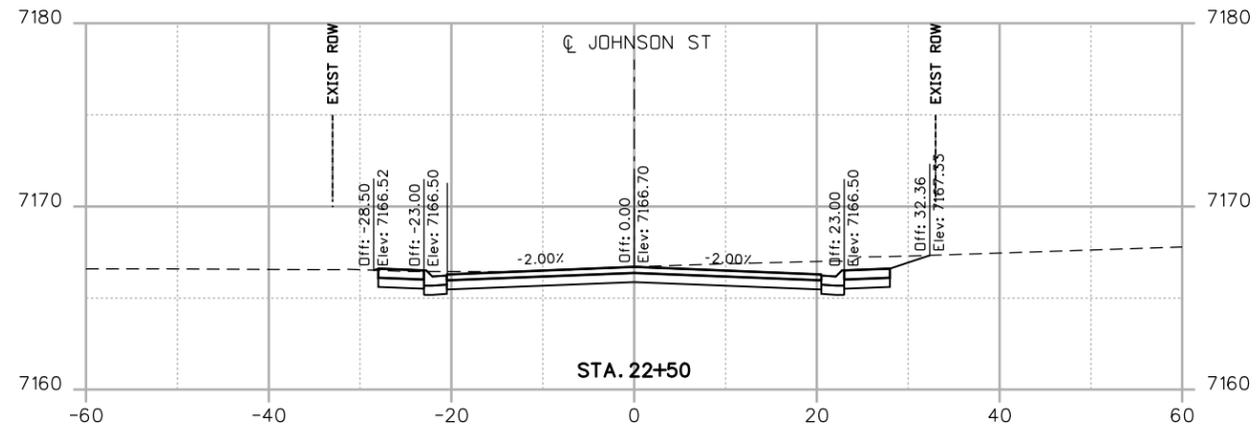
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(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
JOHNSON ST 1 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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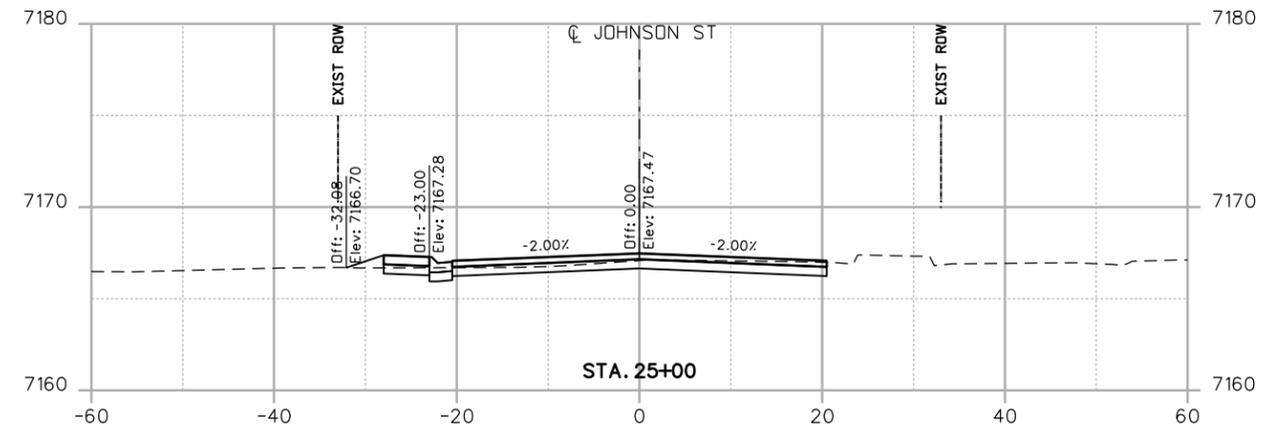
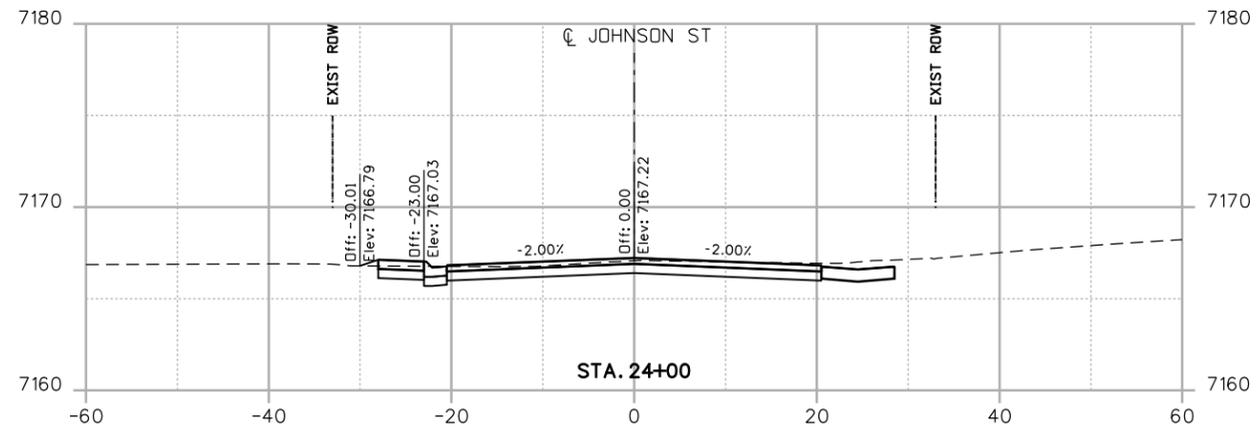
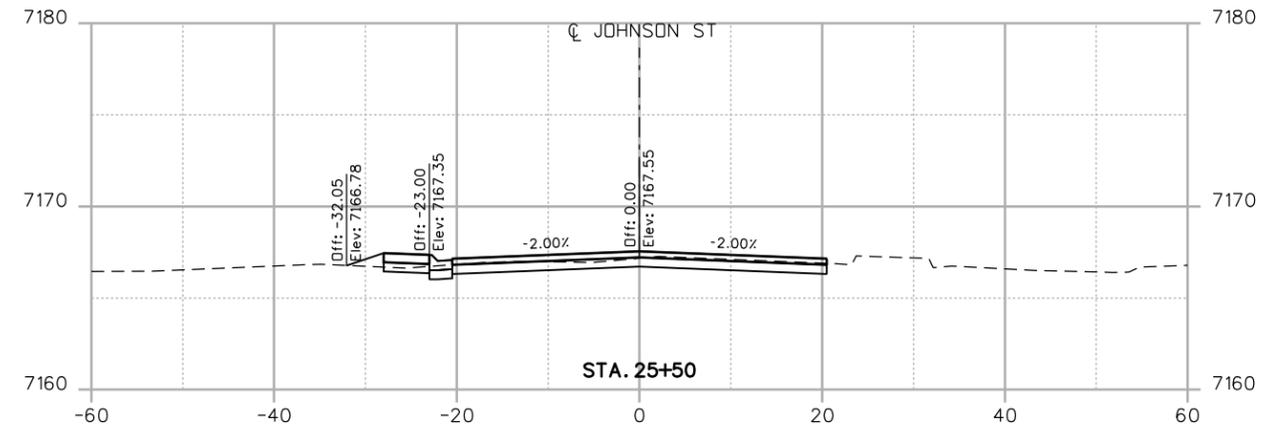
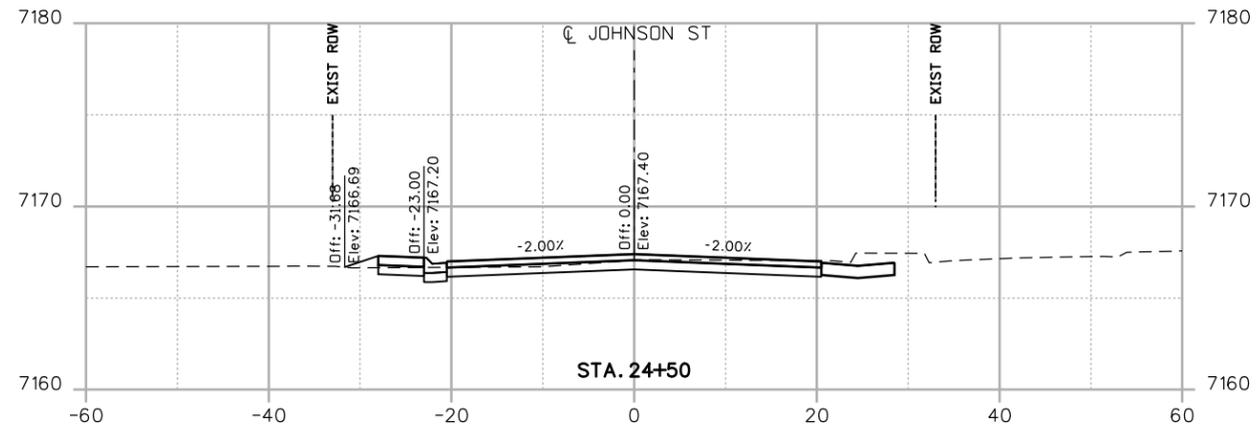
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405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
JOHNSON ST 2 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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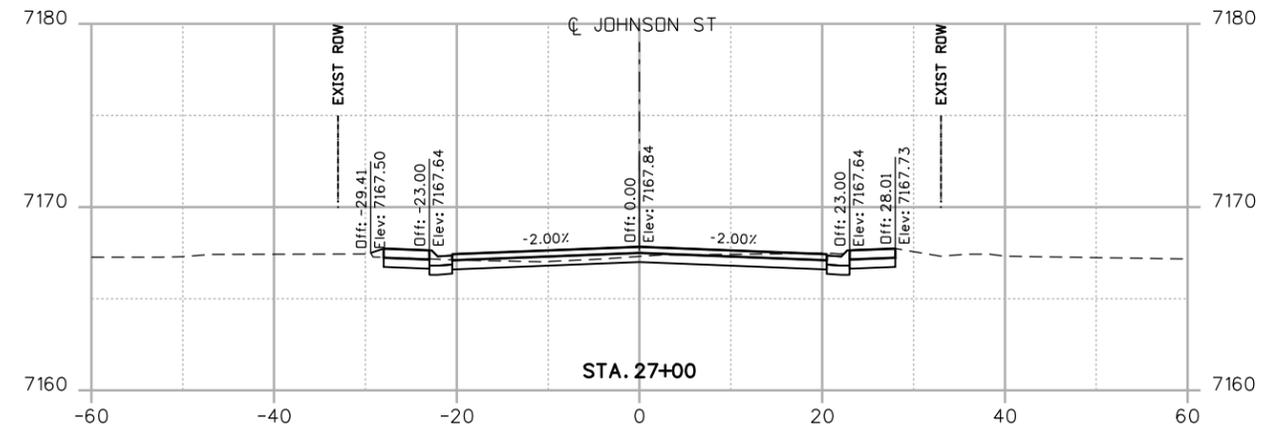
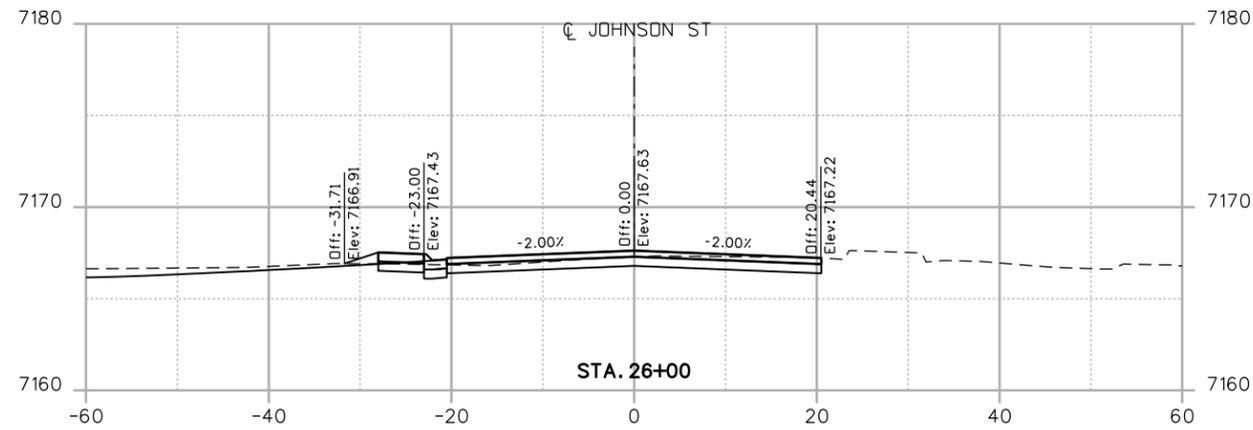
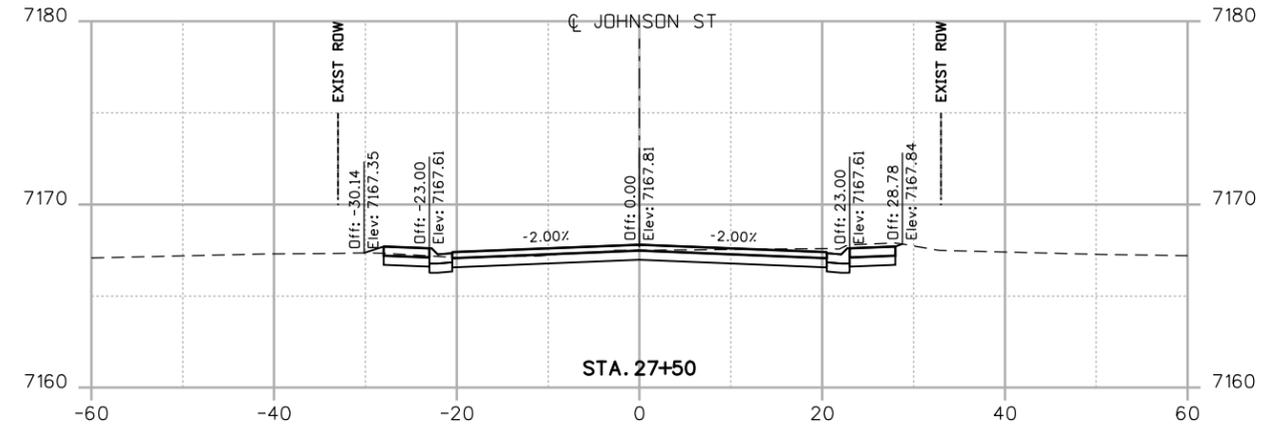
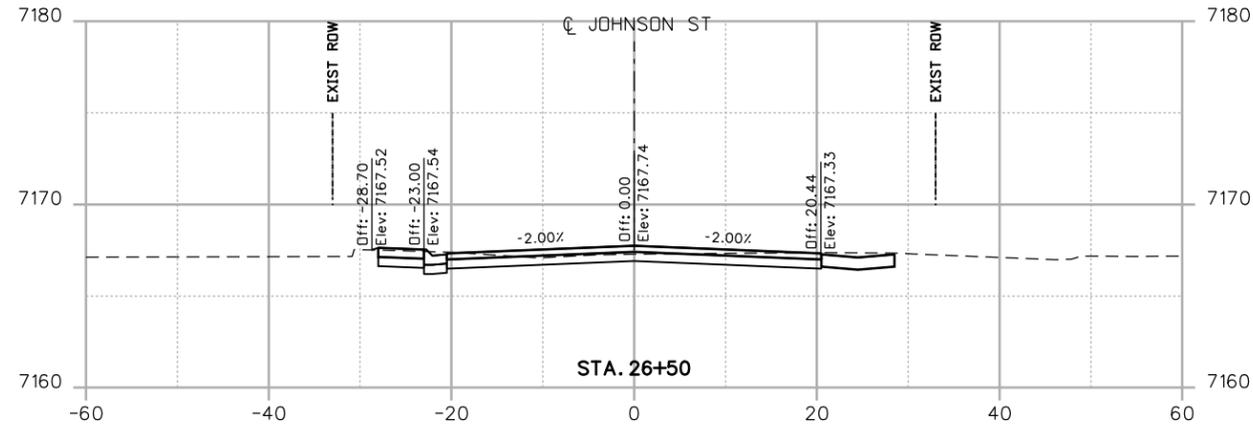
PREPARED FOR
CITY OF LARAMIE
405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
JOHNSON ST 3 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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900 E. SHERIDAN, STE. A
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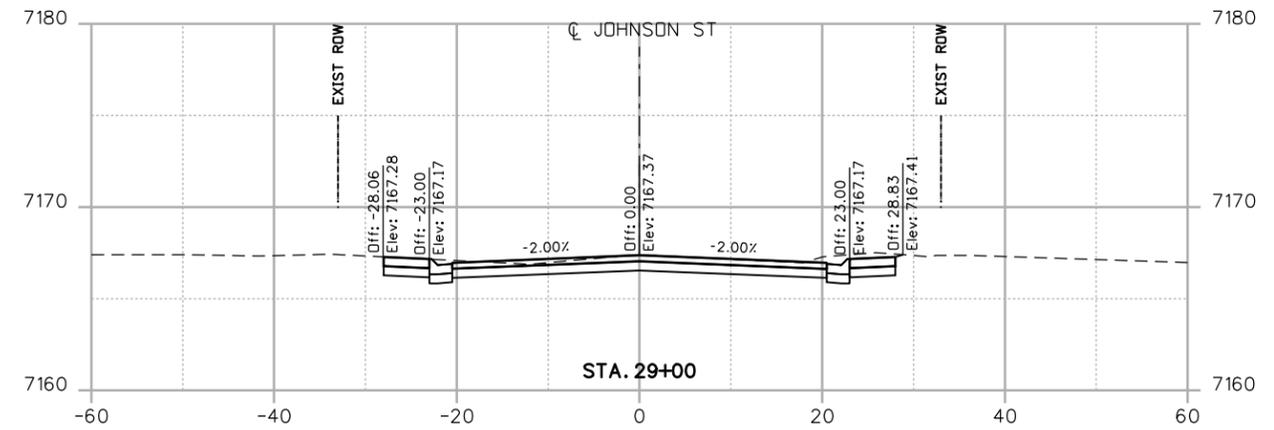
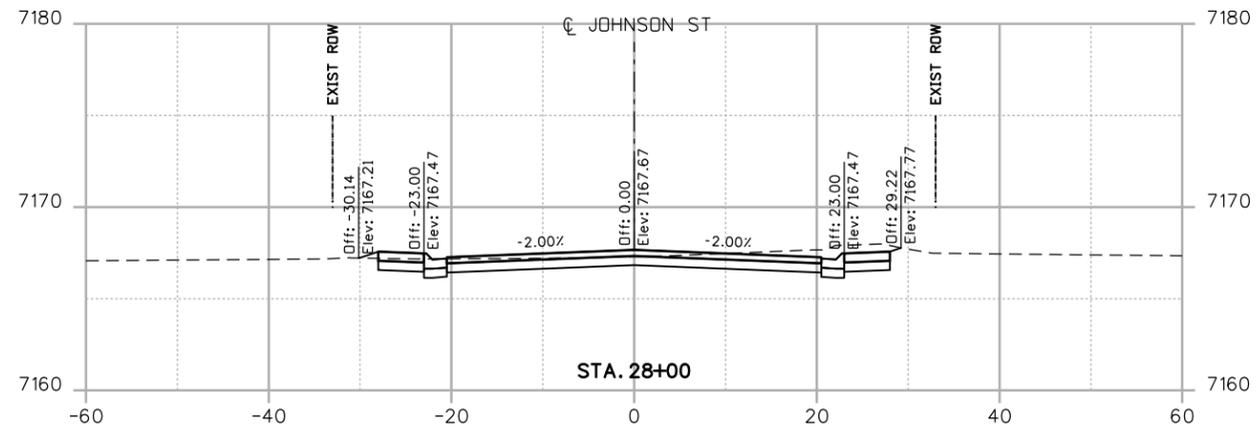
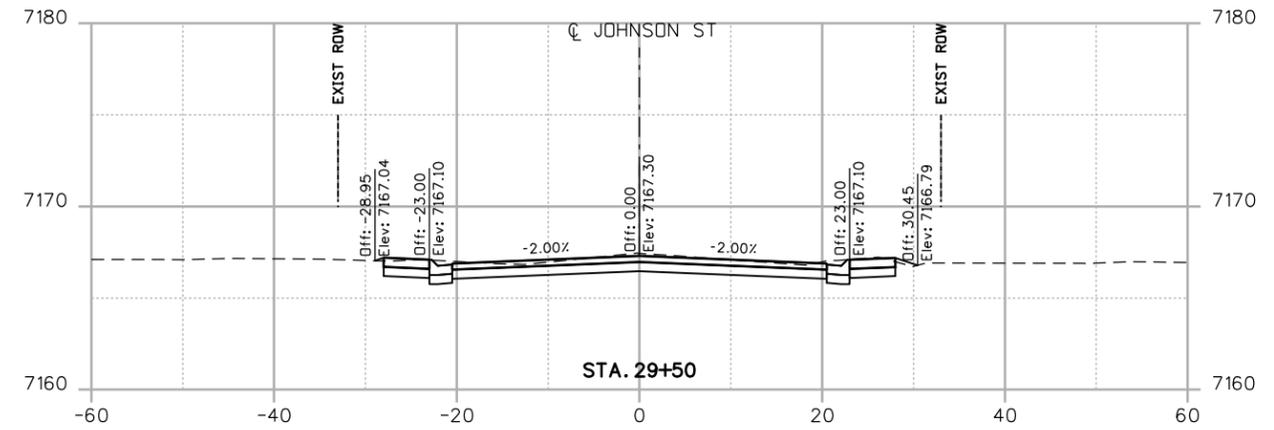
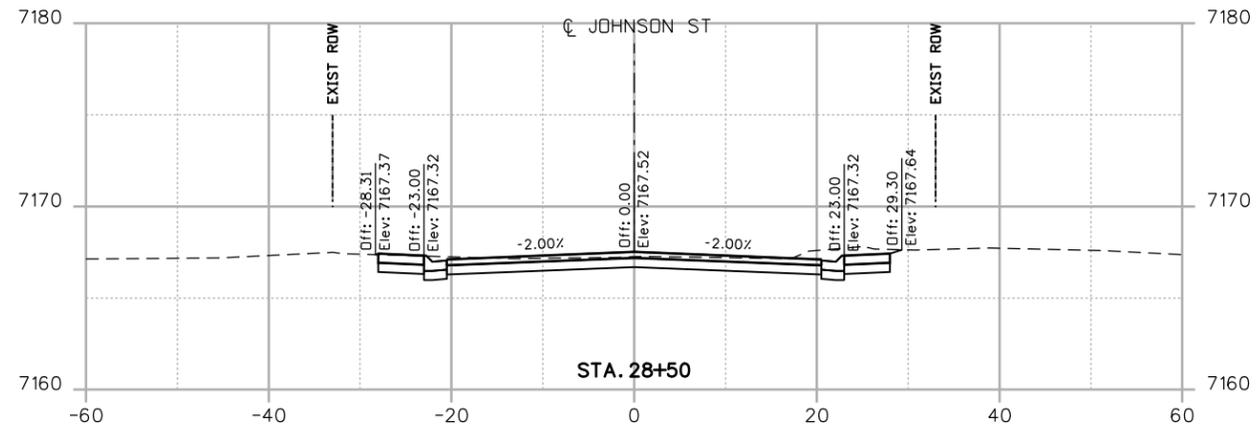
PREPARED FOR
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PROJECT NO.	2068.01
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COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
JOHNSON ST 4 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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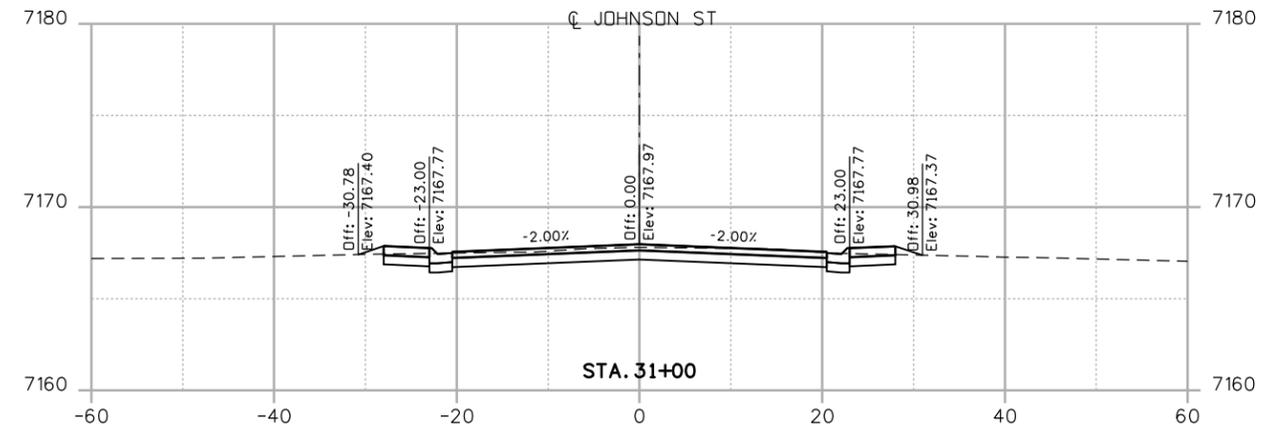
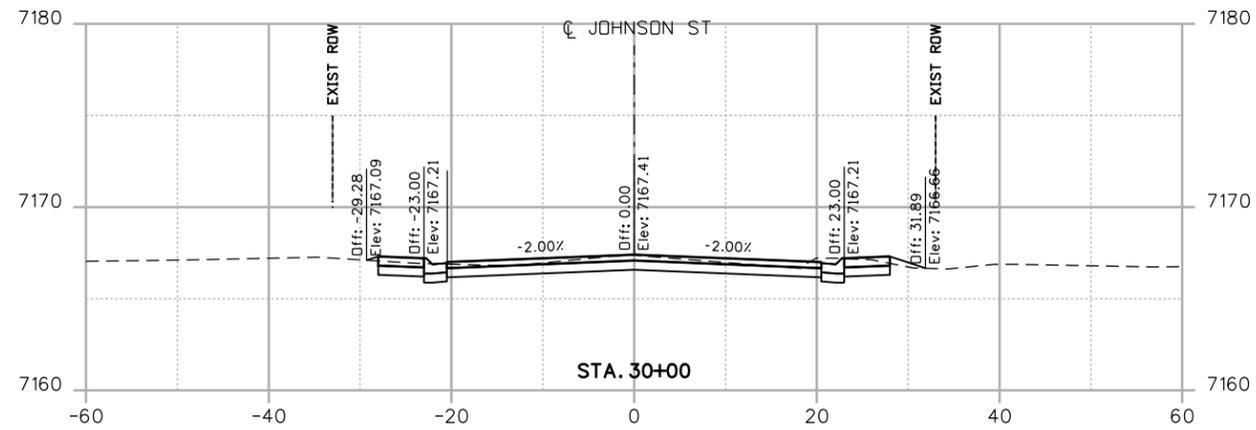
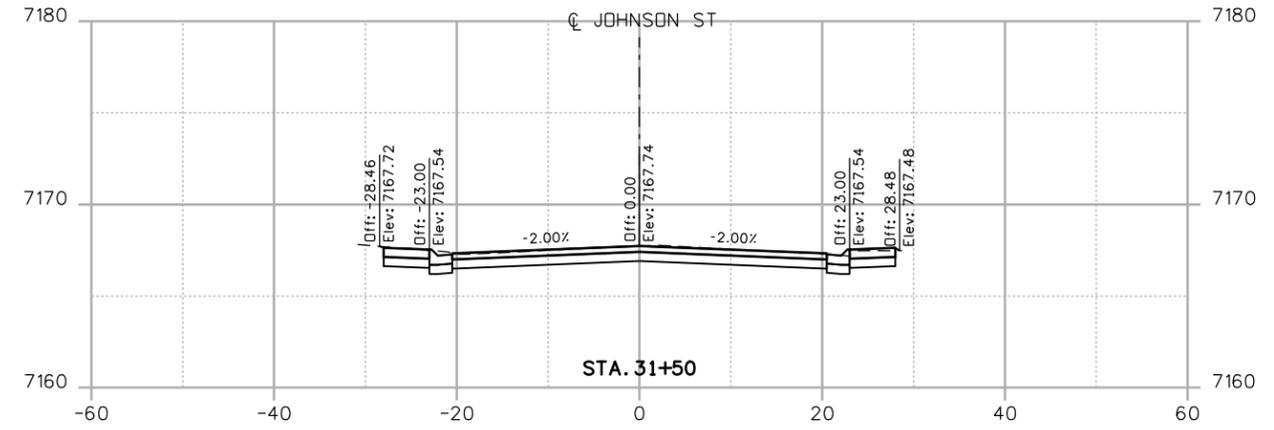
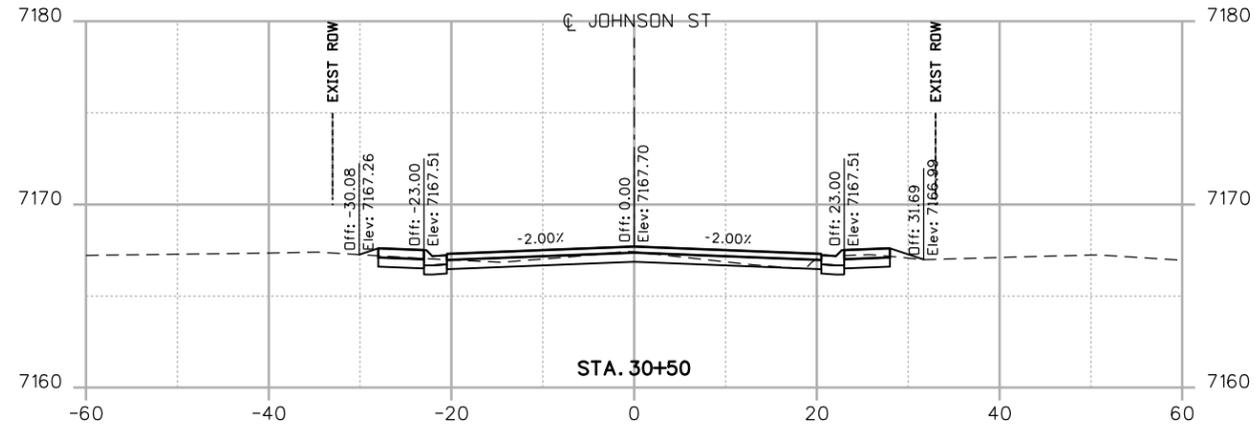
PREPARED FOR
CITY OF LARAMIE
405 GRAND AVENUE
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LARAMIE, WY 82073
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1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
JOHNSON ST 5 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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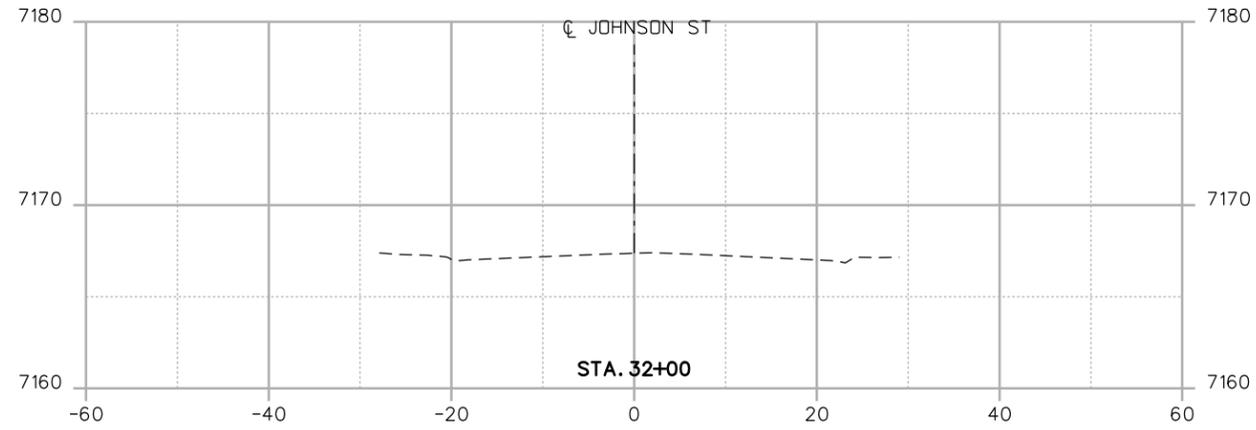
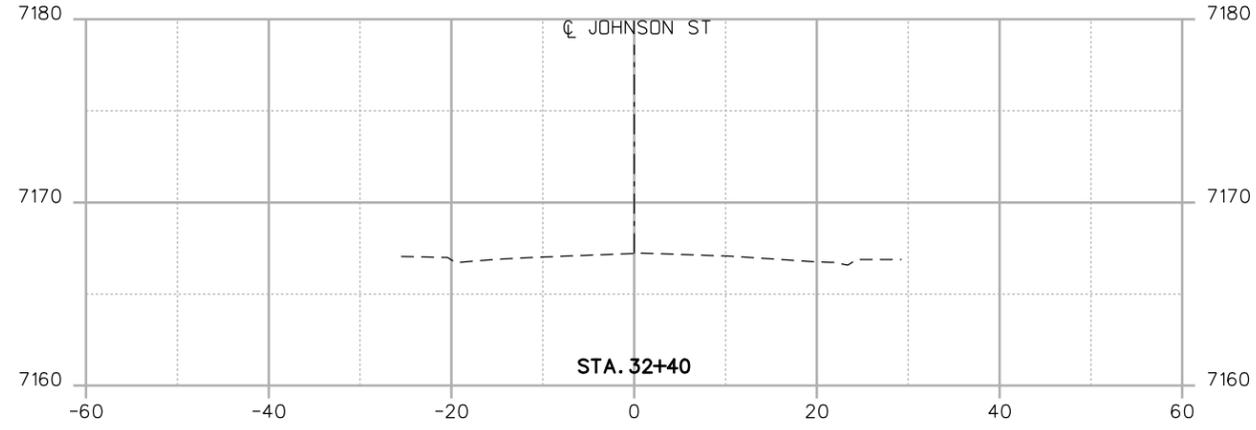
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PO BOX C
LARAMIE, WY 82073
(307) 721-5345
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NO.	DESCRIPTION	DATE	BY
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
JOHNSON ST 6 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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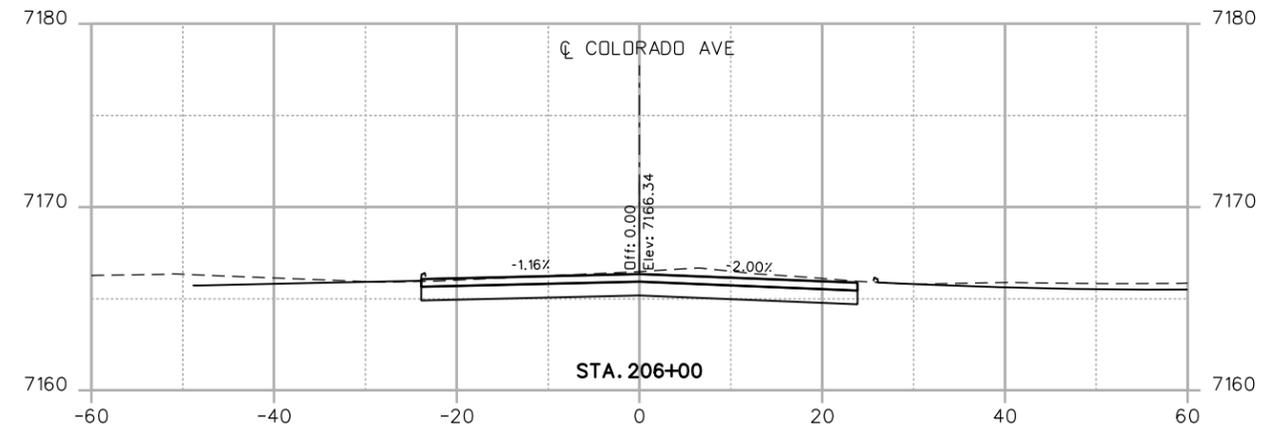
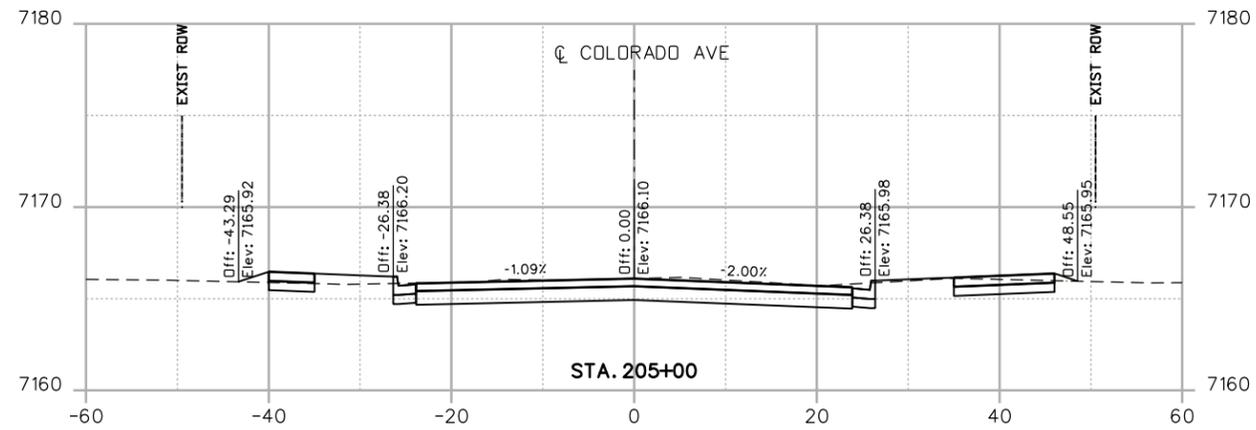
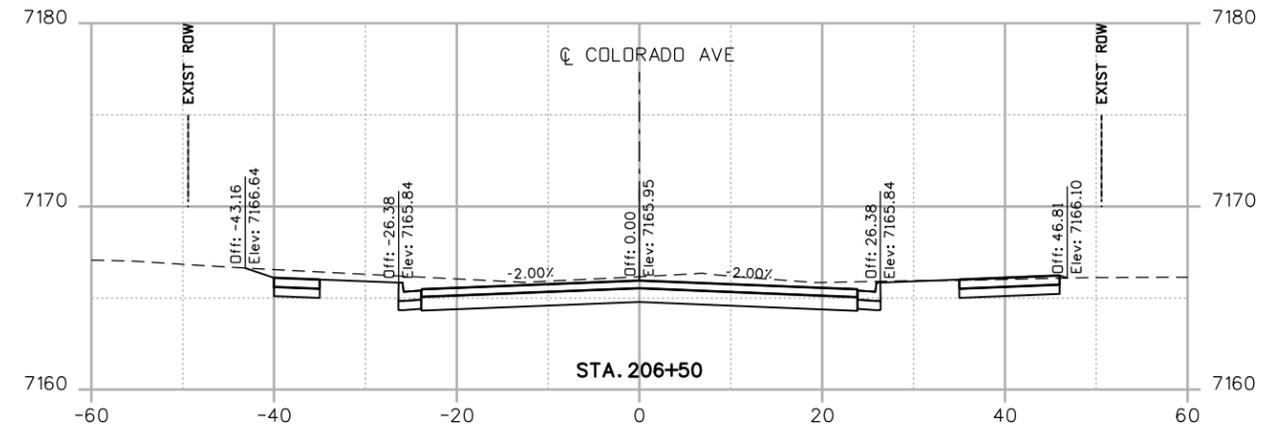
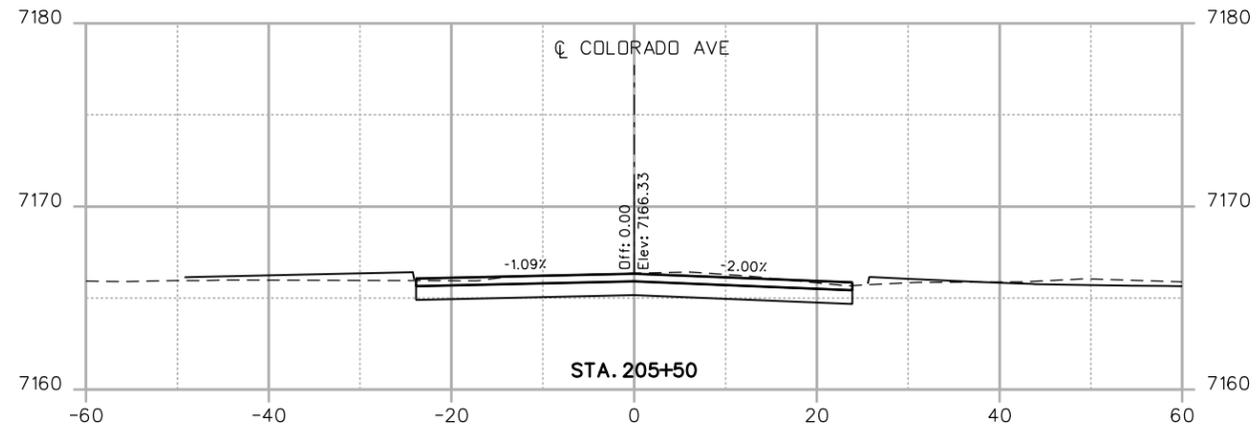
PREPARED FOR
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PROJECT NO.	2068.01
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STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
JOHNSON ST 7 OF 7
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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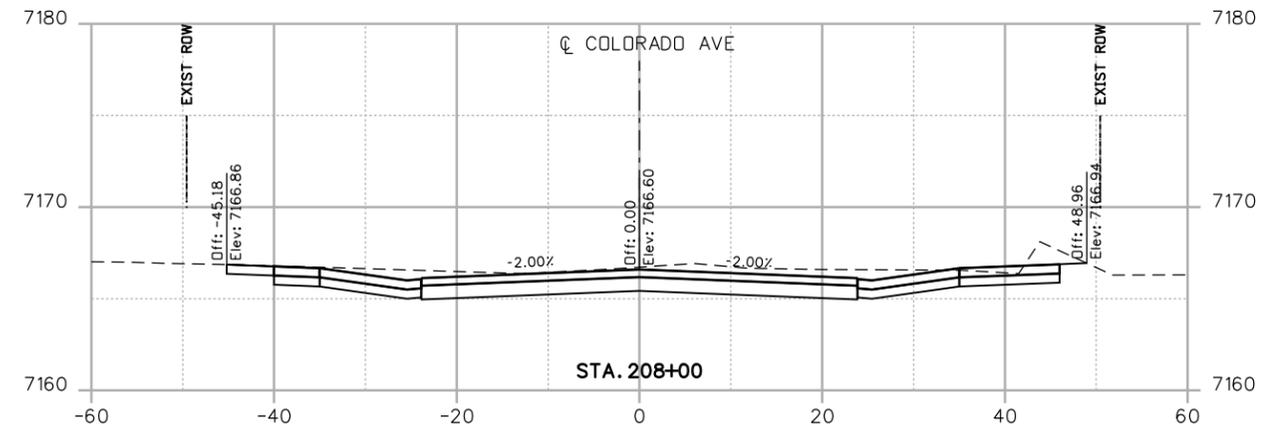
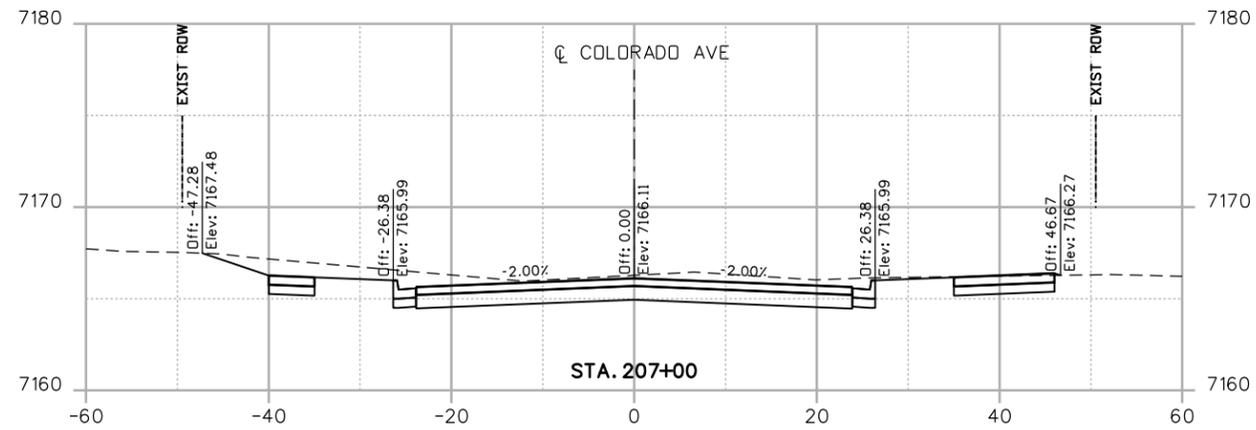
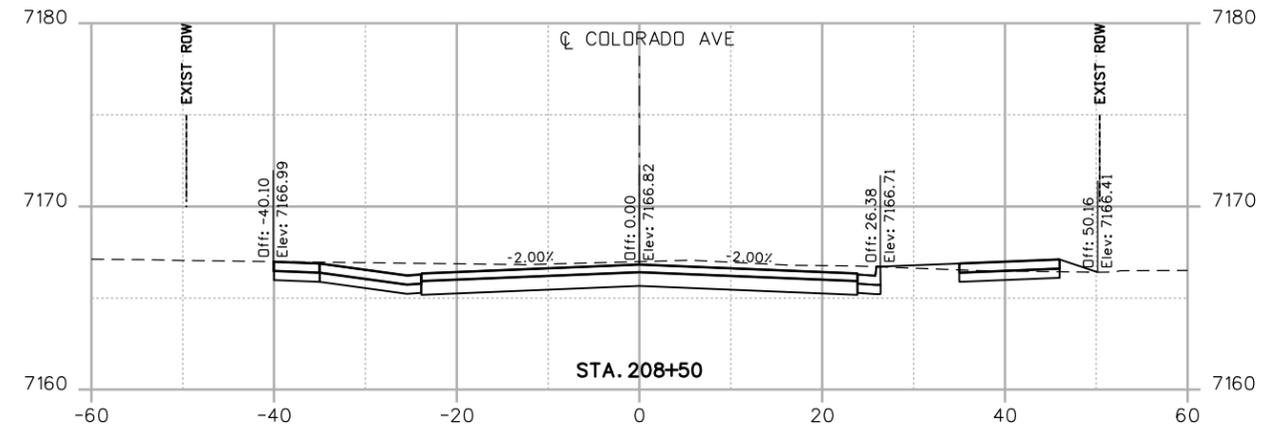
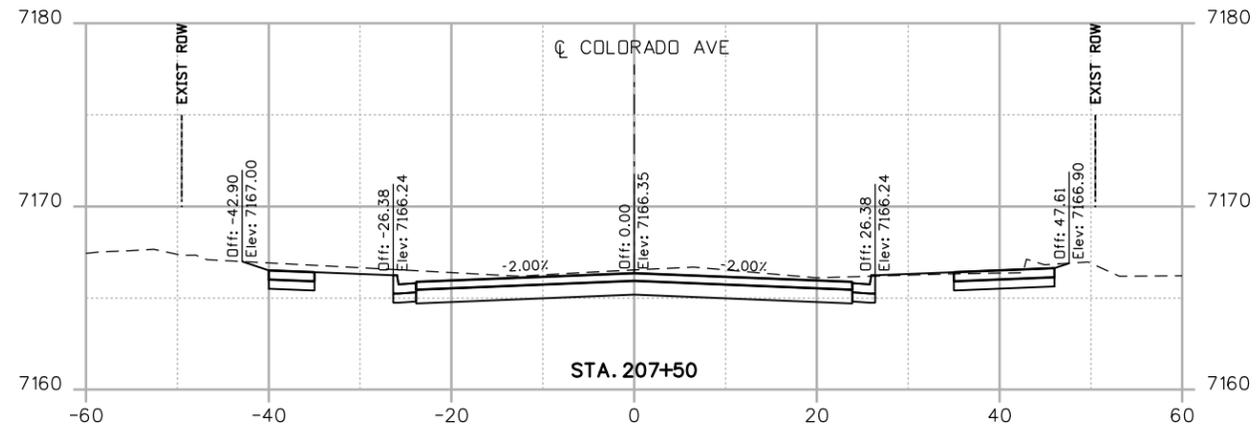
PREPARED FOR
CITY OF LARAMIE
405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
COLORADO AVE 1 OF 4
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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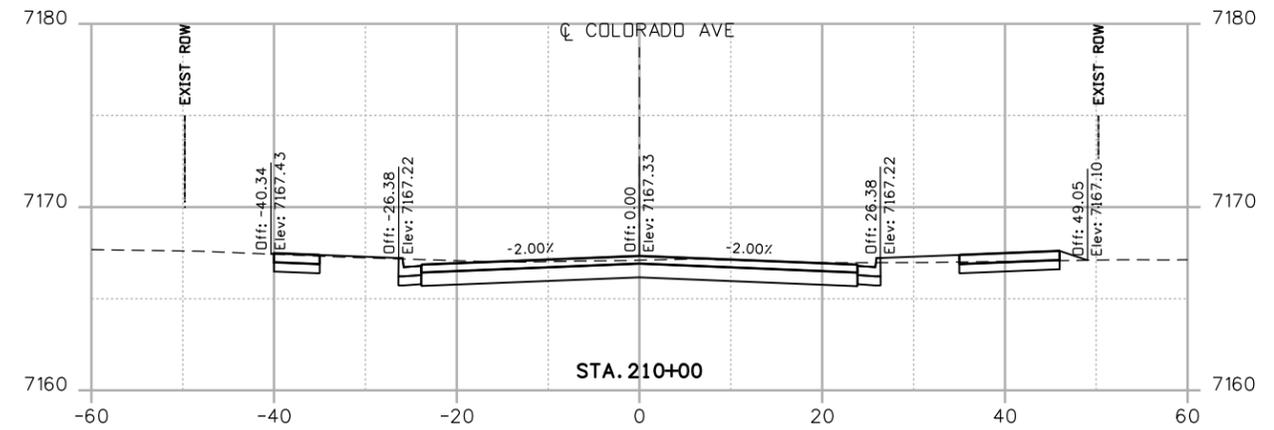
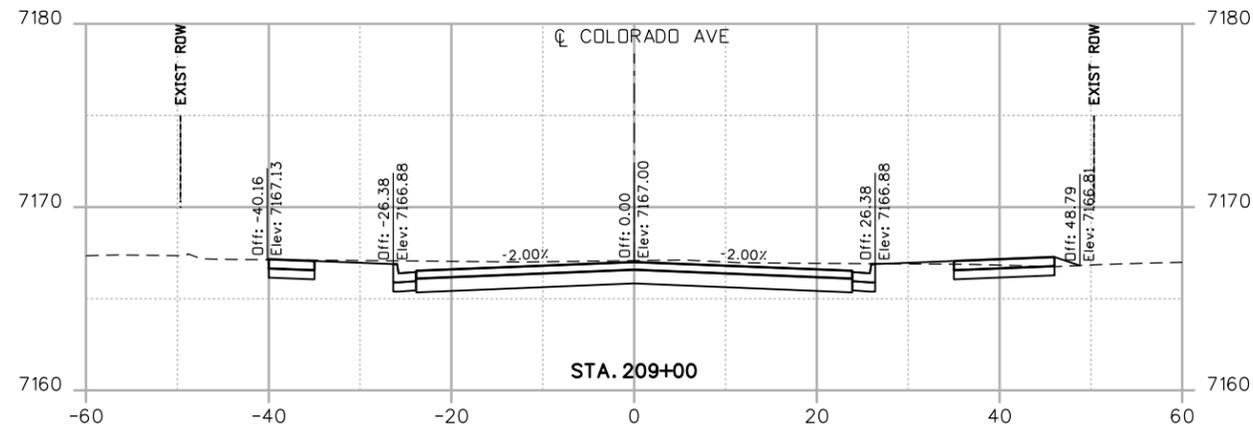
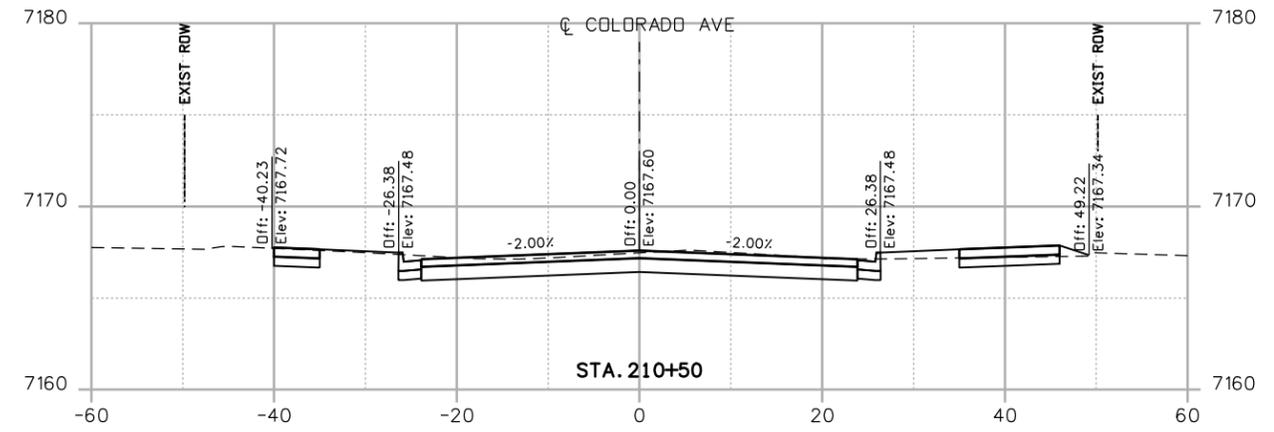
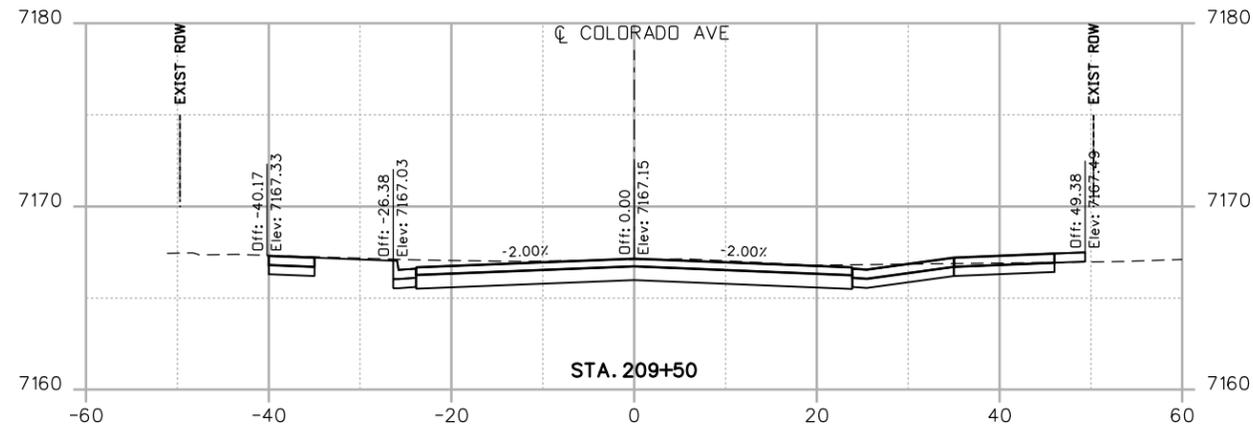
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LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
COLORADO AVE 2 OF 4
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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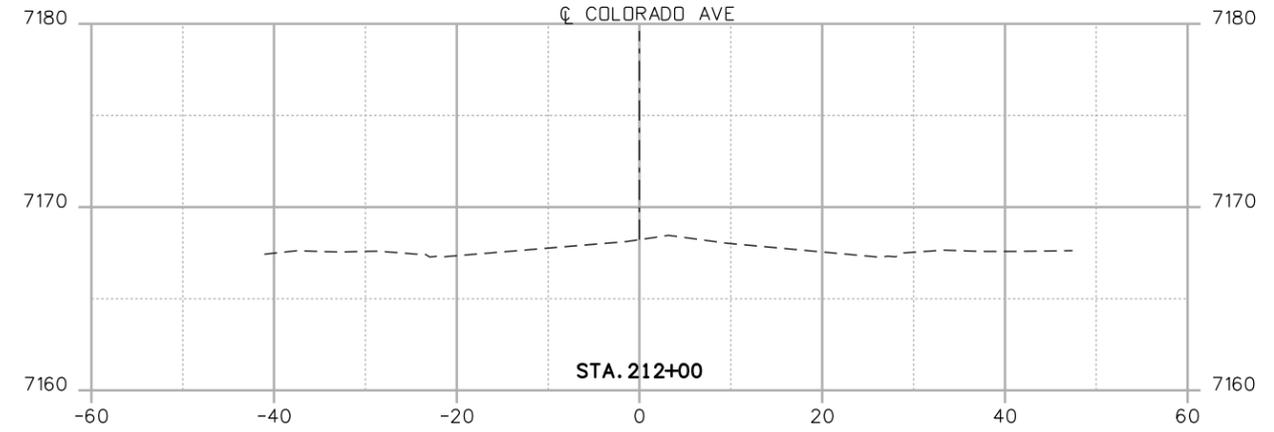
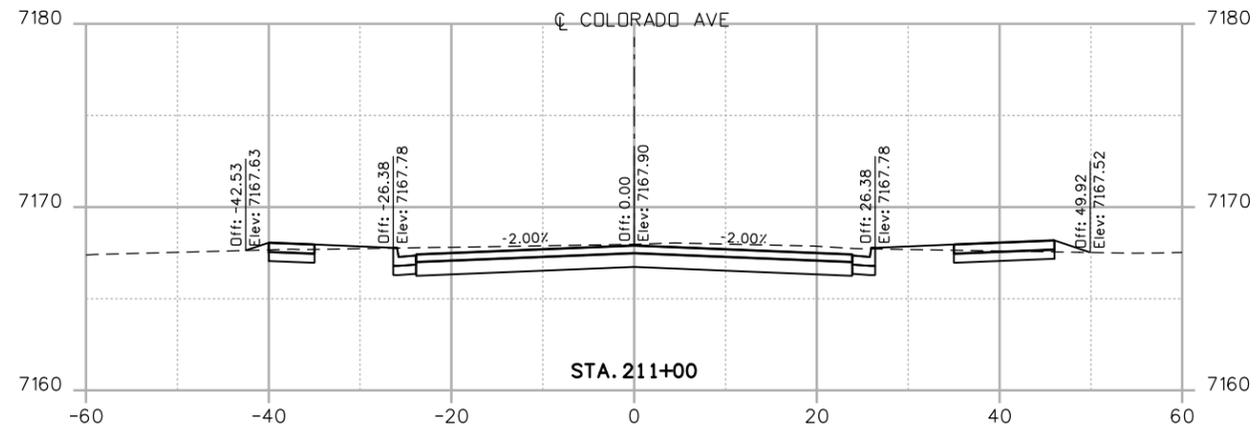
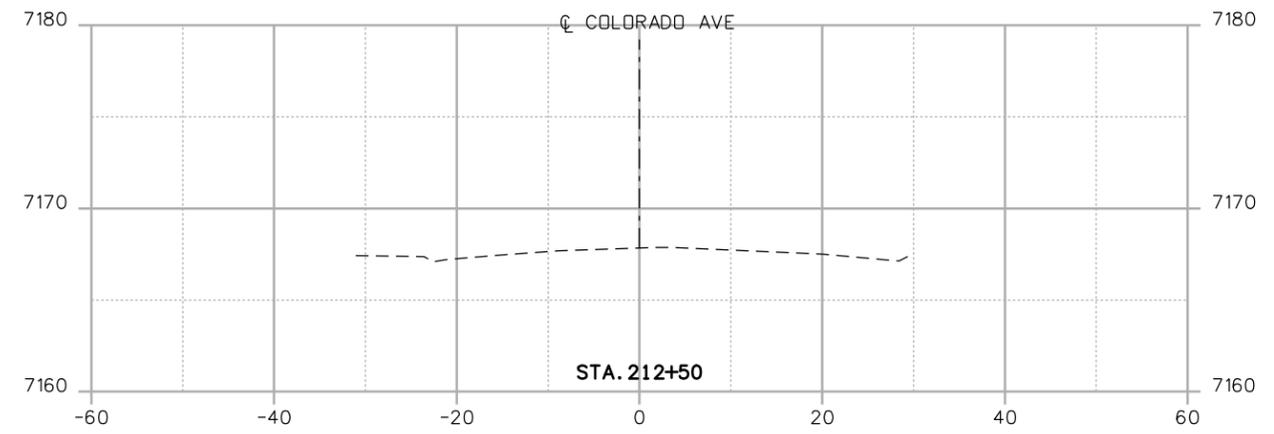
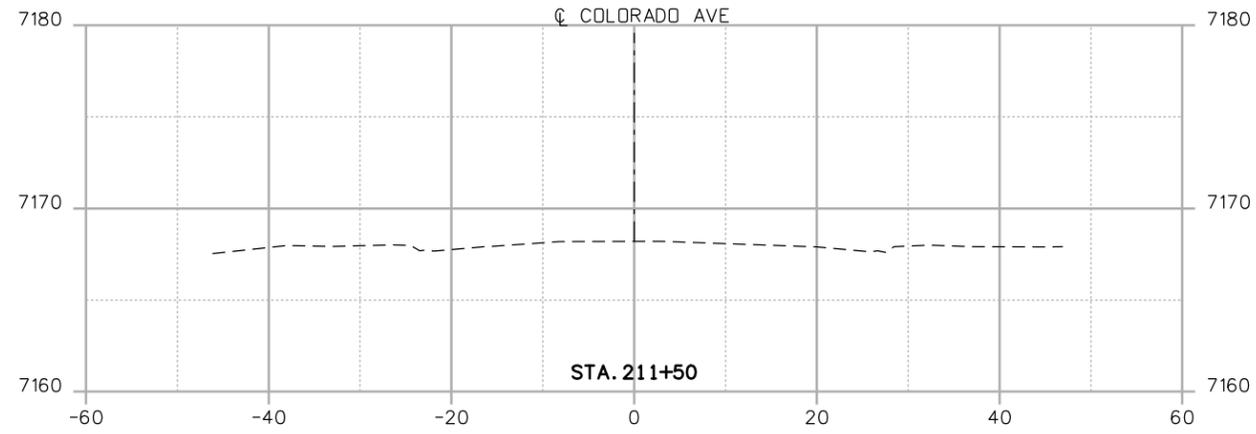
PREPARED FOR
CITY OF LARAMIE
405 GRAND AVENUE
PO BOX C
LARAMIE, WY 82073
(307) 721-5345
CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
COLORADO AVE 3 OF 4
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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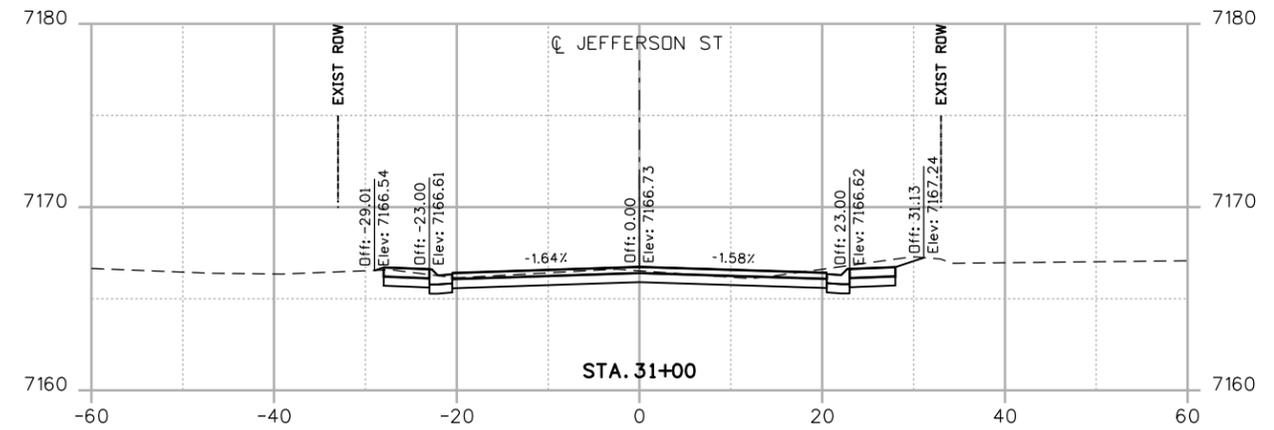
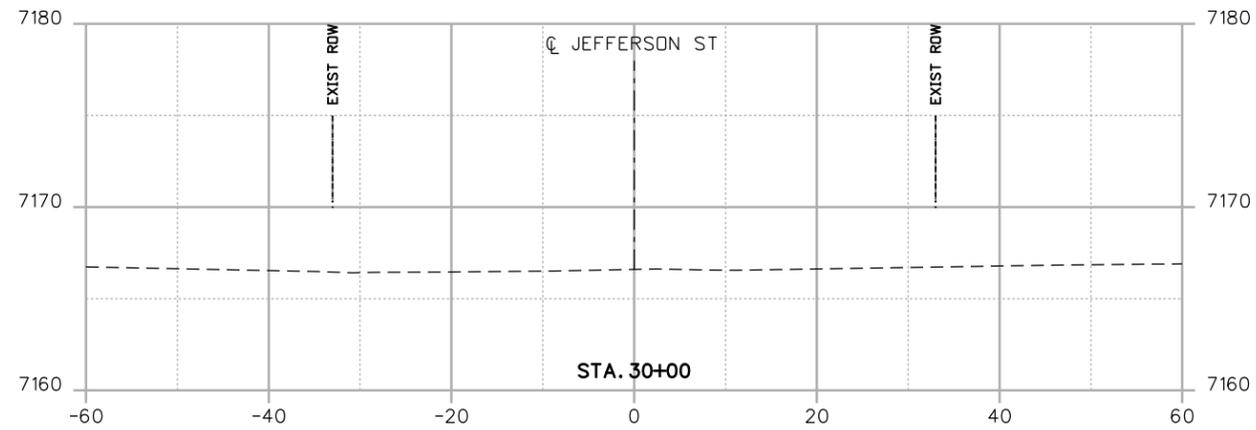
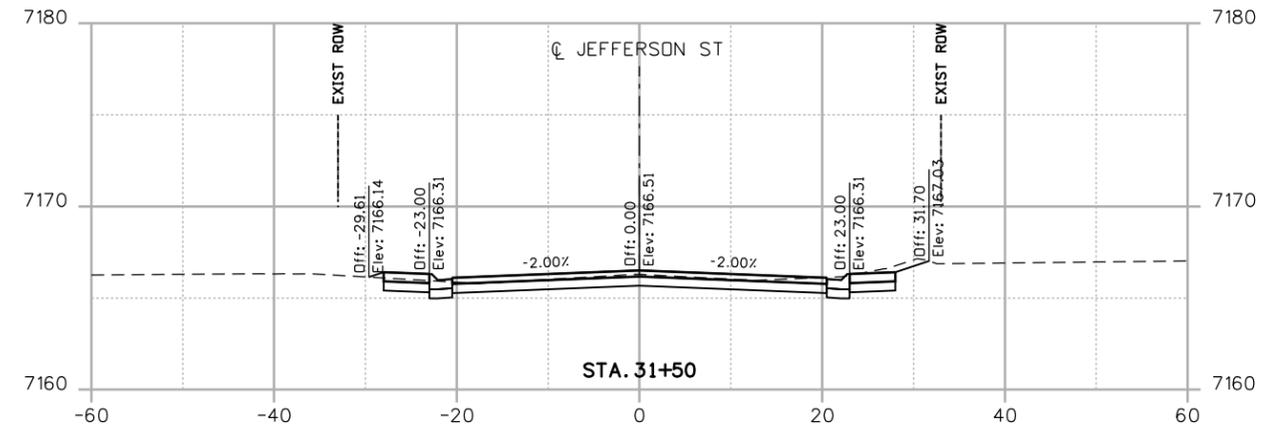
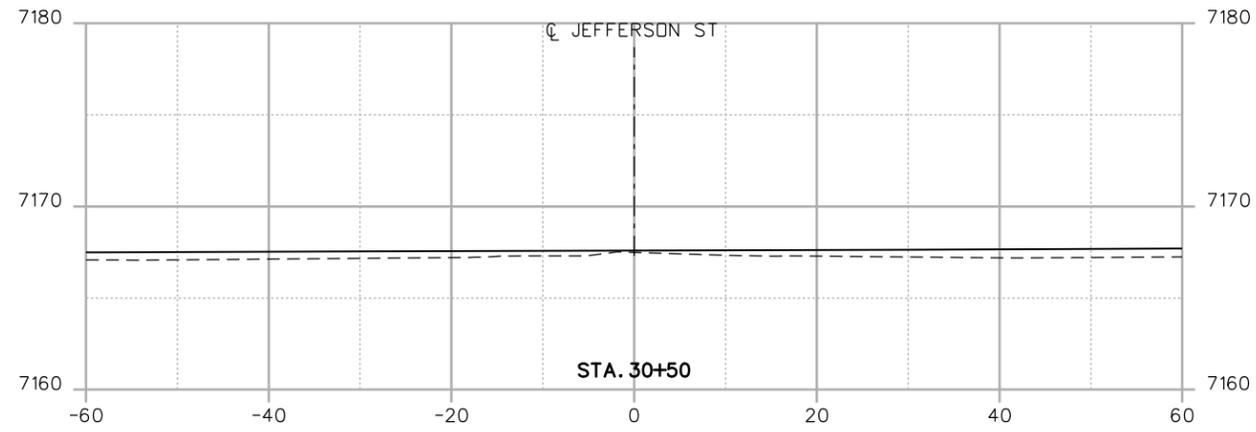
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405 GRAND AVENUE
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
COLORADO AVE 4 OF 4
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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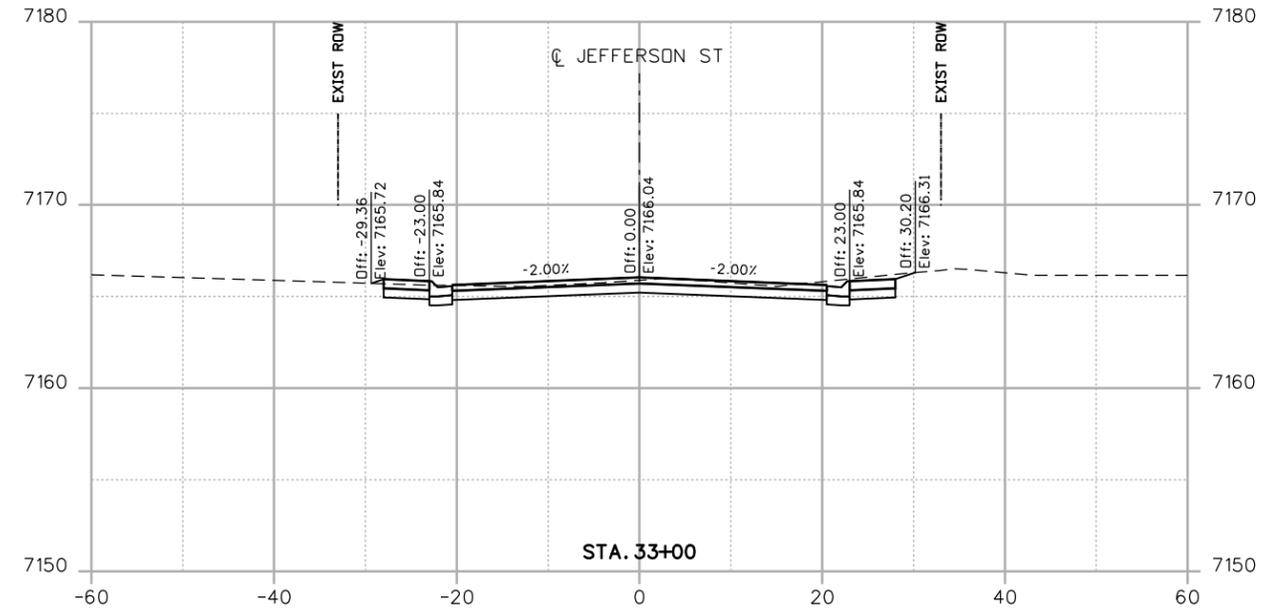
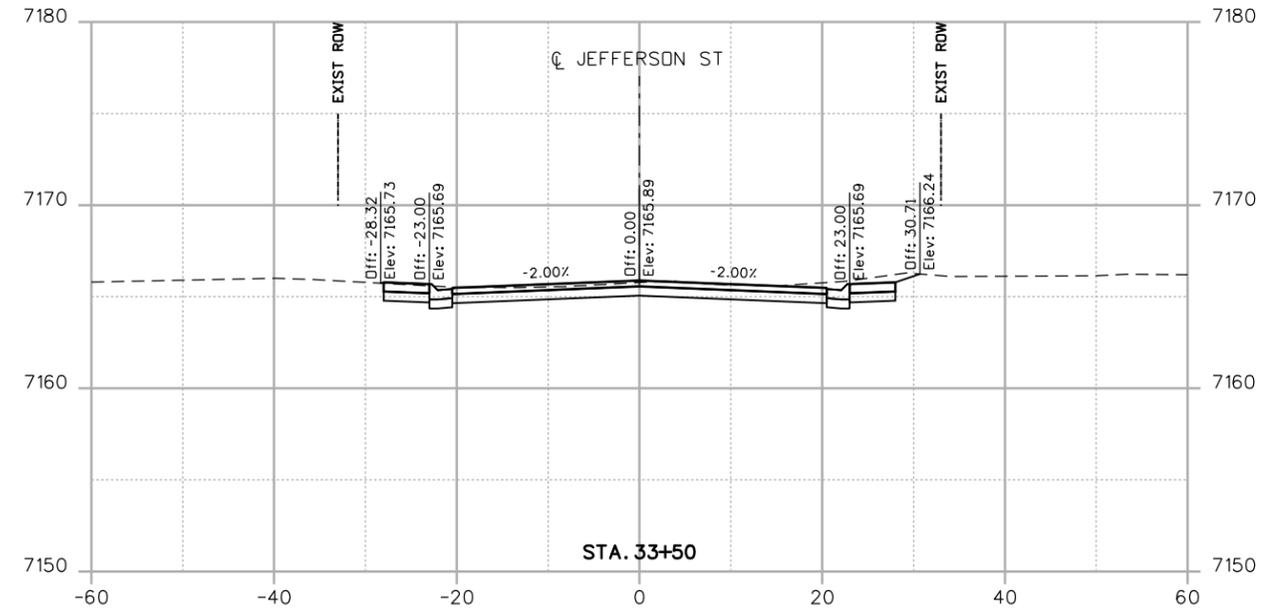
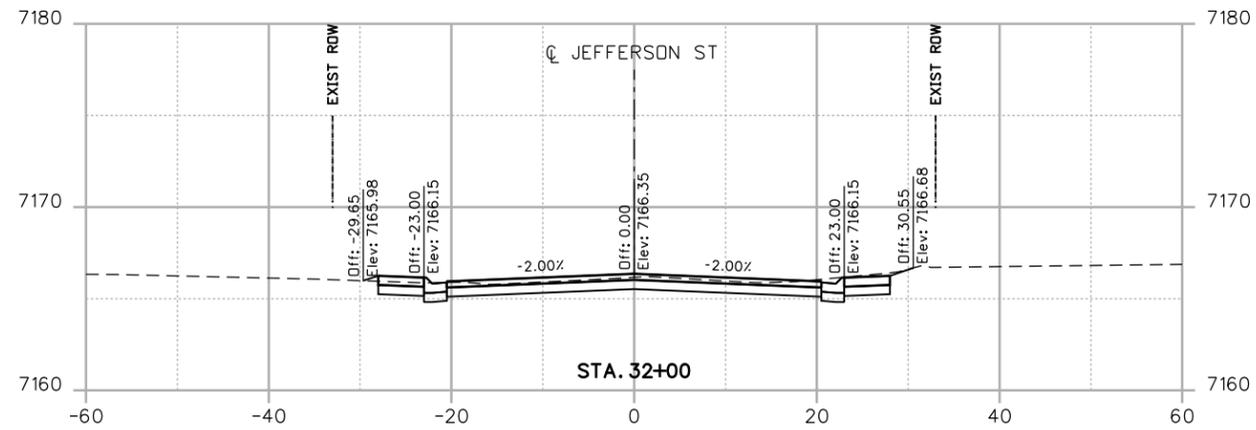
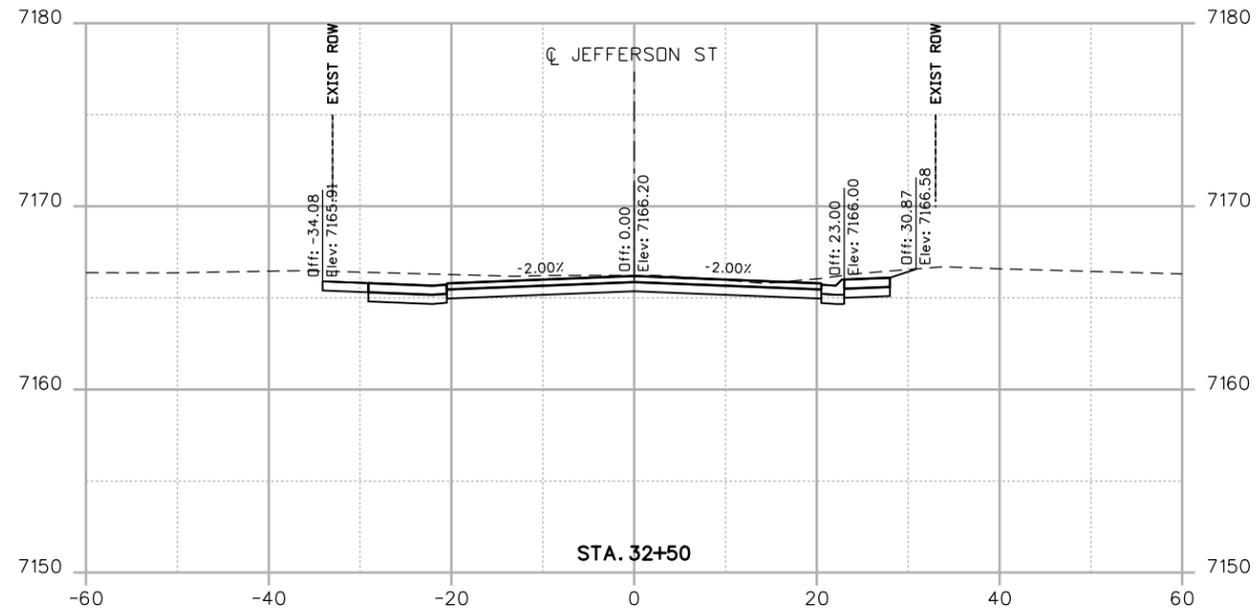
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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	JJW
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	JJW

DATE	MAY 2016
PROJECT NO.	2068.01
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
JEFFERSON ST 1 OF 3
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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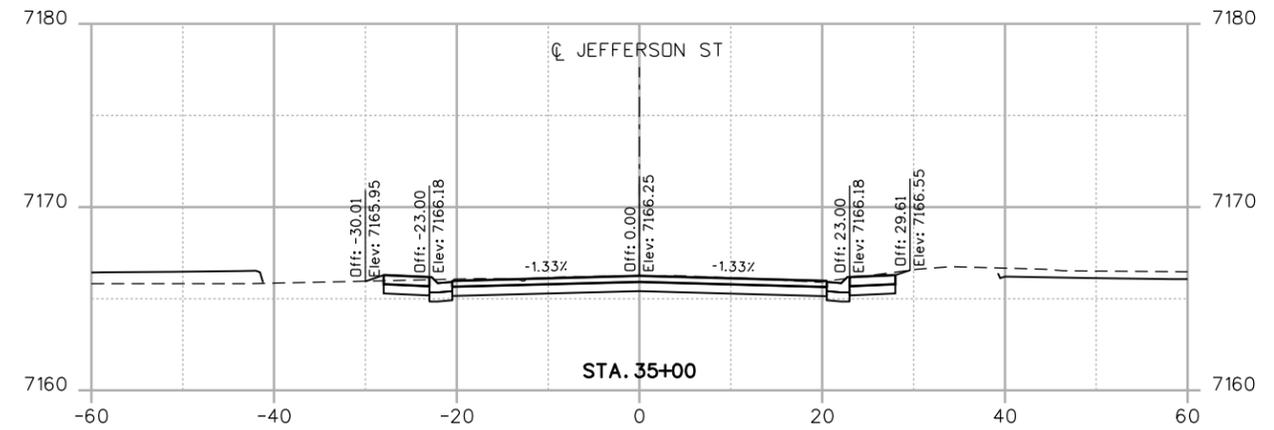
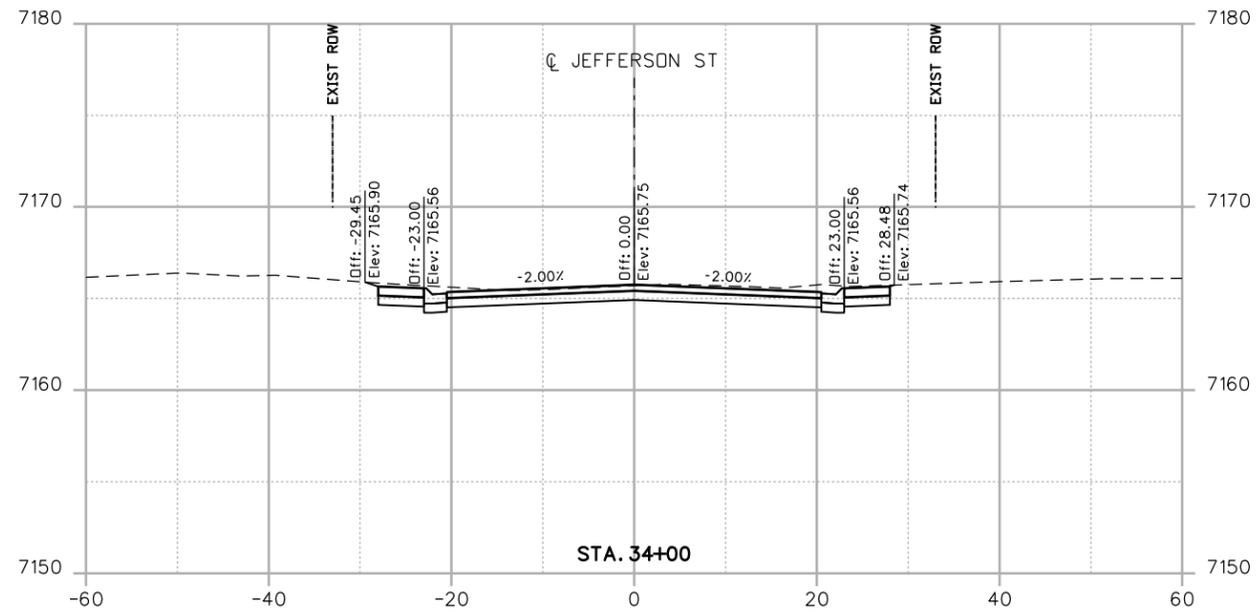
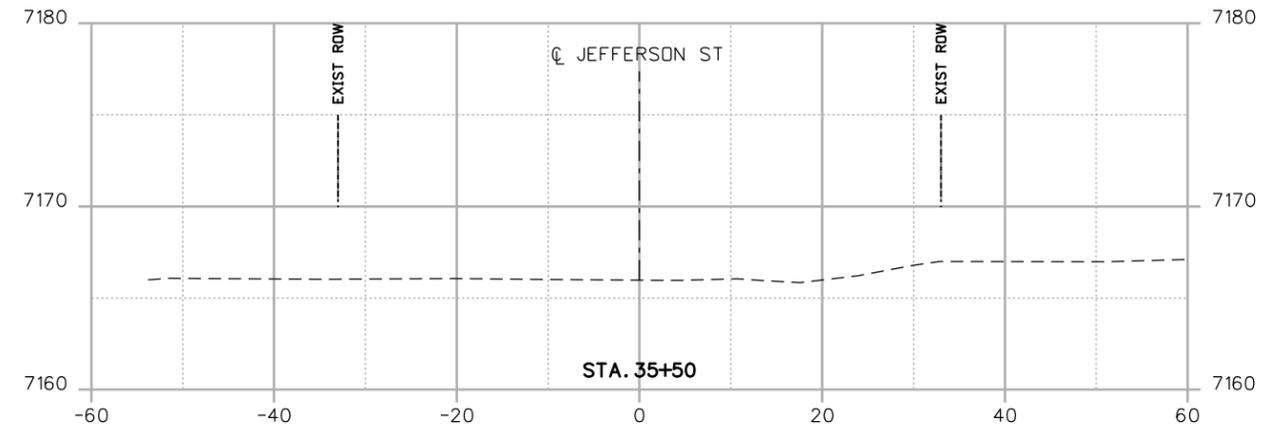
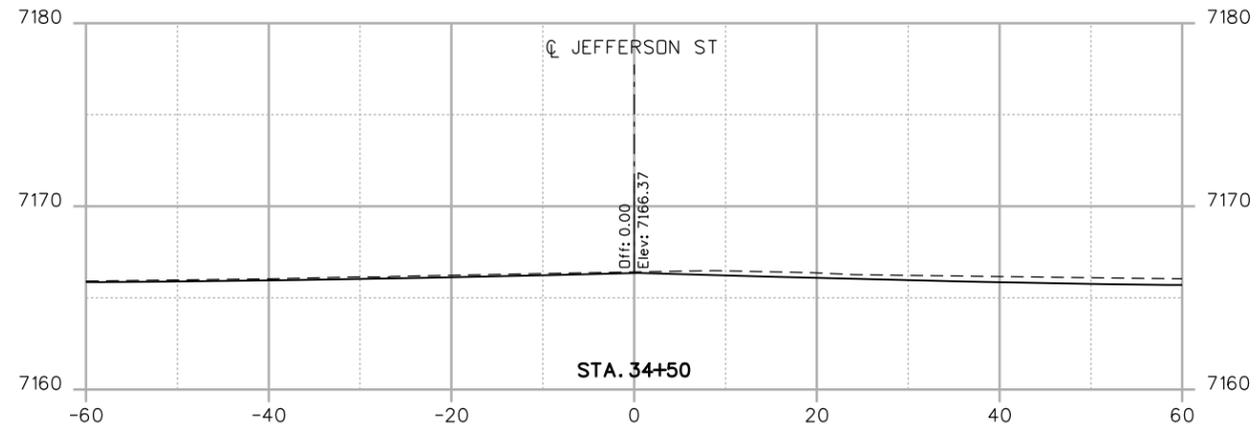
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PROJECT NO.	2068.01
CITY	LARAMIE
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STATE	WYOMING
DESIGNED BY	
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CROSS SECTIONS
JEFFERSON ST 2 OF 3
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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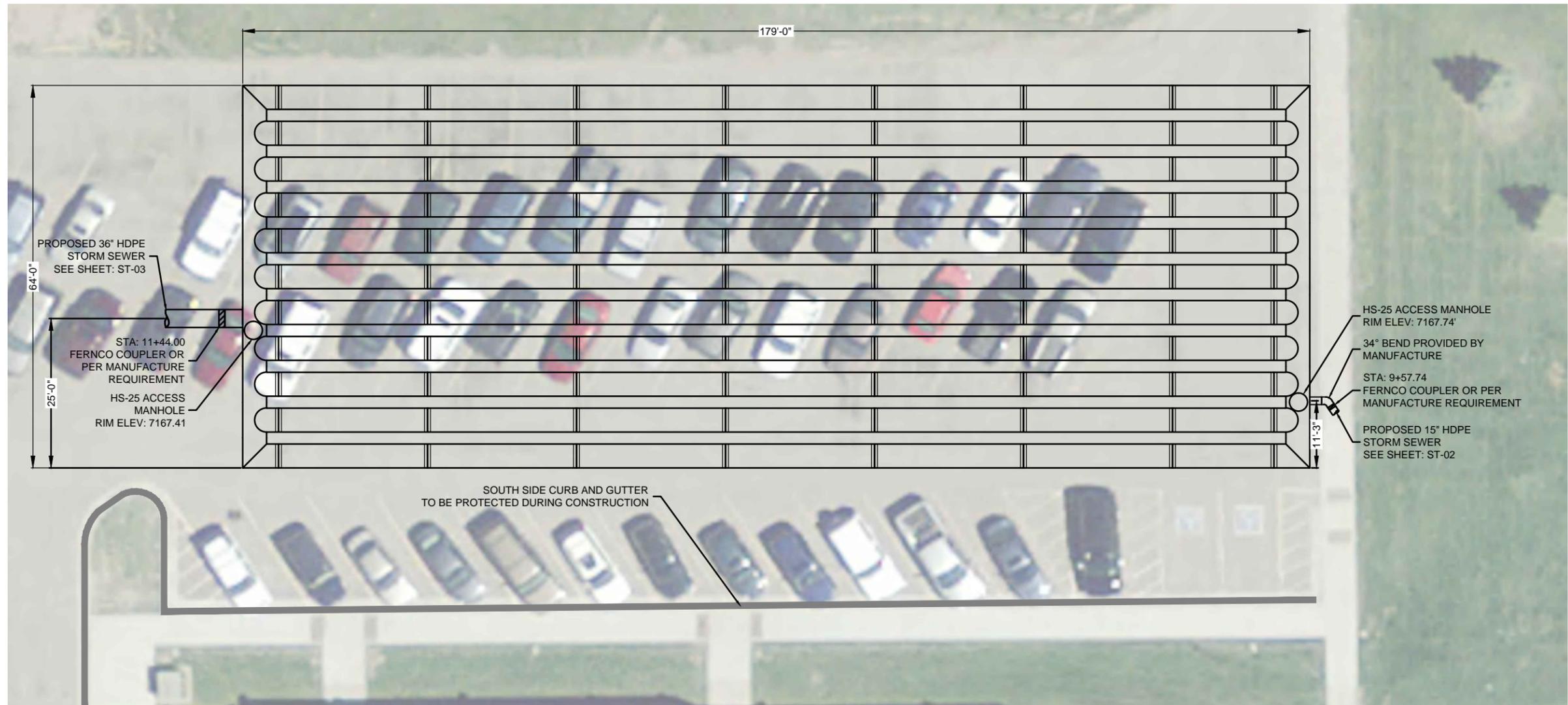
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PROJECT NO.	2068.01
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COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	
CHECKED BY	

CROSS SECTIONS
JEFFERSON ST 3 OF 3
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.



P:\32710207 Linford School Drainage\D-CAD\CAD\SheetFiles\C-DT-UNDR DETENTION-1.dwg

NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2 3/4" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- MAINLINE PIPE GAUGE = 16
- WALL TYPE = PERFORATED
- DIAMETER = 48"
- FINISH = ALT2

ASSEMBLY
 SCALE: 1" = 10'
 VOLUME: 25,246 CF
 LOADING: H20/H25
 SYSTEM INV = 7161.56'



PREPARED BY

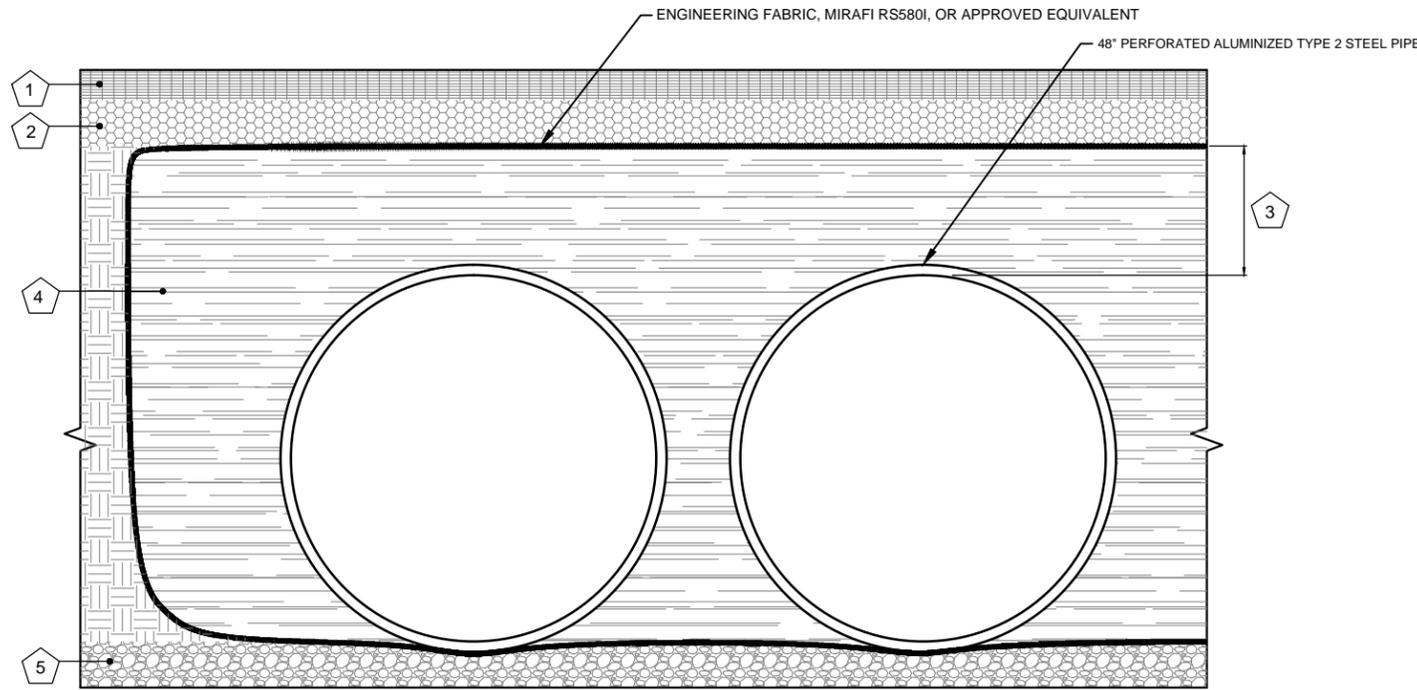
900 E. SIERRA, STE. A
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 Phone: (307) 460-3249
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PREPARED FOR
 CITY OF LARAMIE
 405 GRAND AVENUE
 PO BOX C
 LARAMIE, WY 82073
 (307) 721-5345
 CONTACT: ERIC JAAP

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

DATE: MAY 2016
 PROJECT NO.: 32710207
 CITY: LARAMIE
 COUNTY: ALBANY
 STATE: WYOMING
 DESIGNED BY: RED
 CHECKED BY: AGM

48" UNDERGROUND
 DETENTION SYSTEM
 CITY OF LARAMIE
 LINFORD SCHOOL DRAINAGE IMP.



FOUNDATION/BEDDING PREPARATION

PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, 4" - 6" OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

BACKFILL

THE BACKFILL SHALL BE FREE DRAINING ANGULAR WASHED STONE AS APPROVED BY THE SITE ENGINEER (SEE INSTALLATION GUIDELINES). THE MATERIAL SHALL BE PLACED IN 8" LOOSE LIFTS. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (16") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.

KEY

1. 6" CONCRETE PAVEMENT (BY OTHERS)
2. 6" GRANULAR ROAD BASE (BY OTHERS)
3. 6" MIN. WASHED STONE ABOVE TOP OF PIPE
4. FREE DRAINING ANGULAR WASHED STONE 3/8" MIN. PARTICLE SIZE
5. GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 4" TO 6" IN DEPTH

1 BACKFILL DETAIL
SCALE: N.T.S.

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

SCOPE

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

MATERIAL

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

PIPE

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

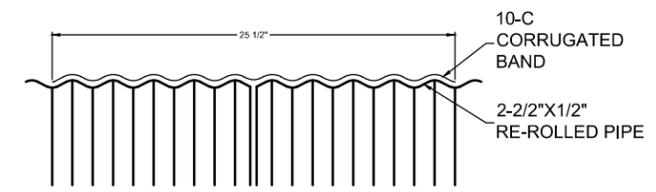
HANDLING AND ASSEMBLY

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSIPA)

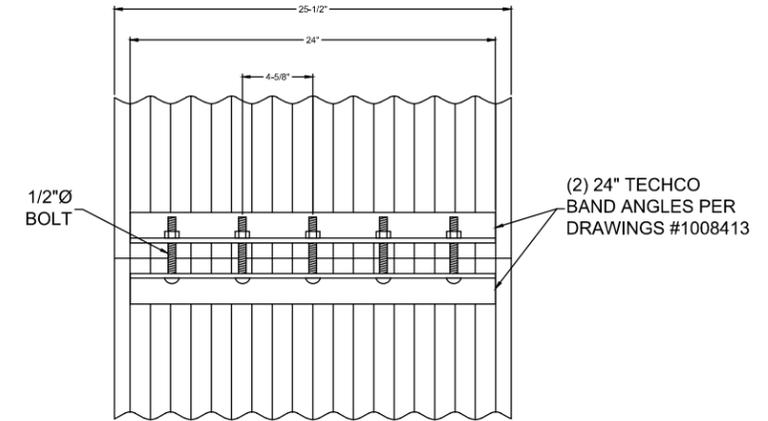
INSTALLATION

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.



SECTION

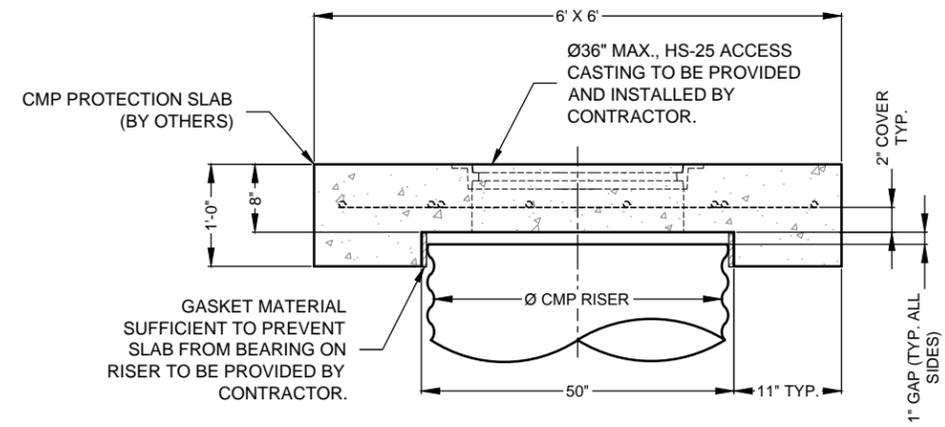


CONNECTION DETAIL

GENERAL NOTES:

1. BANDS ARE NORMALLY FURNISHED AS FOLLOWS: 12" THRU 48", 1-PIECE
2. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
3. REROLLED ANNULAR END CORRUGATIONS ARE NORMALLY 2-2/3" X 1/2". DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

2 10-C BAND DETAIL
SCALE: N.T.S.



SECTION VIEW

4 CMP MANHOLE CAP DETAIL
SCALE: N.T.S.



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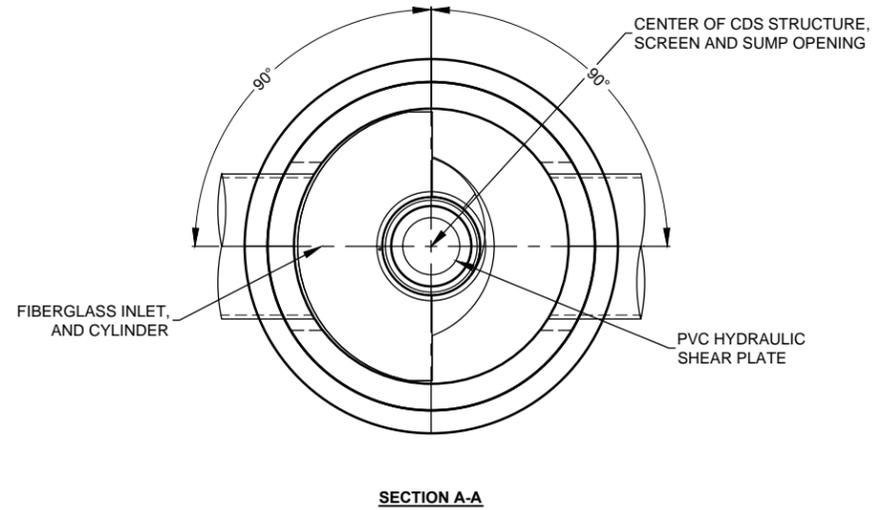
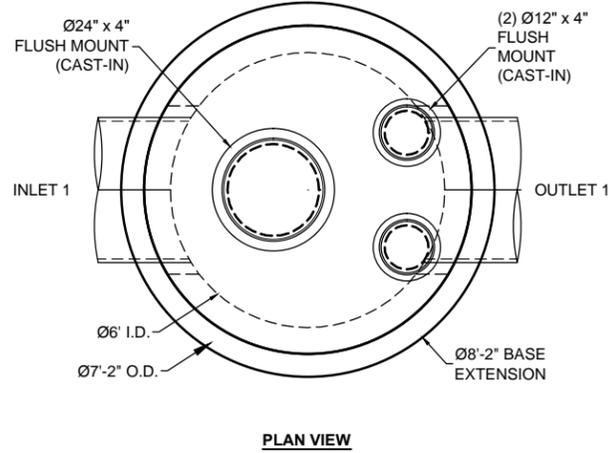
NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

DATE	MAY 2016
PROJECT NO.	32710207
CITY	LARAMIE
COUNTY	ALBANY
STATE	WYOMING
DESIGNED BY	RED
CHECKED BY	AGM

48" UNDERGROUND
DETENTION SYSTEM
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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P:\32710207 Linford School Drainage\D-CAD\CAD\SheetFiles\C-DT-UNDR DETENTION-2.dwg

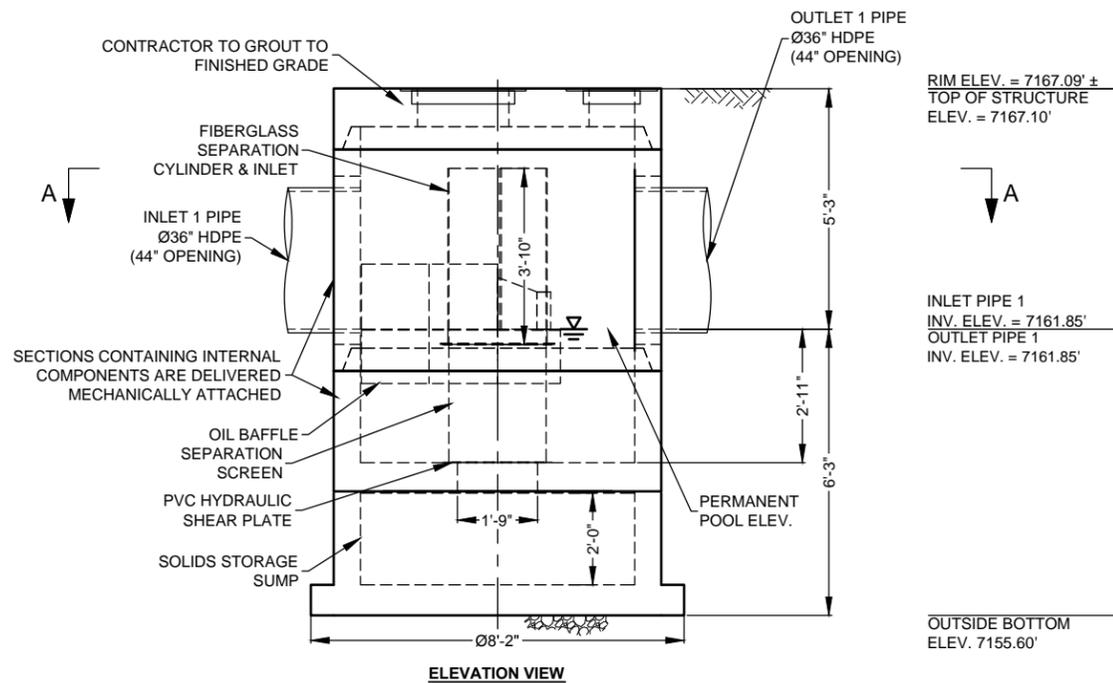


MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	2400 micron, 2' O.D. x 2.58' SEP. SCREEN	CONTECH
1	3/16 INCH PVC HYDRAULIC SHEAR PLATE	CONTRACTOR
1	SEALANT FOR JOINTS (BY PRECASTER)	CONTRACTOR
1	Ø24" x 4" FRAME & COVER, EJ#41600389, OR EQUIV. (CAST-IN)	CONTRACTOR
2	Ø12" x 4" FRAME & COVER, EJ#41610201, OR EQUIV. (CAST-IN)	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	0 CFS
PEAK FLOW RATE	28.3 CFS
RETURN PERIOD OF PEAK FLOW	100 YRS



GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 14000 LBS.
STRUCTURE IS DELIVERED IN 3 PIECES

MAX FOOTPRINT = Ø8'-2"

NO.	DESCRIPTION	DATE	BY
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2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAY 2016	RED
2	REVISED CONSTRUCTION PLAN SET		

DATE: MAY 2016

PROJECT NO.: 32710207

CITY: LARAMIE

COUNTY: ALBANY

STATE: WYOMING

DESIGNED BY: RED

CHECKED BY: AGM

PRE-TREATMENT MH
CITY OF LARAMIE
LINFORD SCHOOL DRAINAGE IMP.

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CITY OF LARAMIE APPROV. LPK MAR 2013

GENERAL NOTES

- CONCRETE SHALL BE TYPE II PORTLAND CEMENT, 3/4" MAX. AGGREGATE, 40% CRUSHED LIMESTONE OR GRANITE, MIN 28 DAY STRENGTH OF 4,500 PSI, 0.45 MAX WATER/CEMENT RATIO, 4-1/2" MAX SLUMP, AIR ENTRAINMENT 5 TO 7%. ALL PORTLAND CEMENT CONCRETE SHALL CONFORM TO SECTION 03304 OF THE WPSS.
- FIBER REINFORCEMENT SHALL BE FIBERMESH (OR APPROVED EQUAL), 3/4" LENGTH MINIMUM. POLYPROPYLENE FIBERS ADDED TO THE CONCRETE AT THE RATE OF 1.5 LBS PER CUBIC YARD.
- CURING COMPOUND SHALL BE APPLIED TO ALL CONCRETE. CONTRACTOR SHALL SELECT FROM THE FOLLOWING:
 - PENETRATING SILANE SEALER (EARLY CONSTRUCTION SEASON)
 - 40% SILANE BY WEIGHT
 - WEATHER WORKER S-40 (J-29), AS MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENTS. S-40 IS AN ALCOHOL-BASED PRODUCT.
 - WEATHER WORKER S-40 WB (J-29 WB), AS MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENTS. S-40 WB IS A WATER-BASED PRODUCT.
 - APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - CURE AND SEAL (LATE FALL CONSTRUCTION WHERE WINTER CONDITIONS MAY OCCUR PRIOR TO 30 DAYS OF AIR DRYING)
 - 30% SOLIDS ACRYLIC COPOLYMER
 - CURE & SEAL 1315 EF, AS MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENTS. THE 1315 EF PRODUCT IS WATER-BASED.
 - CURE & SEAL UV 30K (J-23 UV), AS MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENTS. THE J-23 U.V. PRODUCT IS SOLVENT BASED.
 - APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - CURE AND PENETRATING BLEND OF SILANES AND ACRYLIC COPOLYMERS
 - CURE & PENETRANT (J-21 CP), AS MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENTS.
 - APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- FRESHLY PLACED CONCRETE SHALL BE PROTECTED FROM EXCESSIVE MOISTURE LOSS BEFORE CURING WITH SHEET MATERIALS OR MISTING.
- EVAPORATION RETARDERS SHALL NOT BE USED AS A FINISHING AID TO FACILITATE THE FINISHING OF DRIED SURFACES.
- IF MISTING IS EMPLOYED, ANY ACCUMULATION OF WATER ON THE SURFACE OF THE CONCRETE MUST BE REMOVED, AND NOT FINISHED INTO SURFACE.

STREET NOTES

- ALL STREETS SHALL BE CONSTRUCTED WITH A MINIMUM OF 2" PLANT MIX ASPHALT.
- A RUBBER-TIRED ROLLER SHALL BE USED ON ALL PLANT MIX ASPHALT.

GENERAL NOTES STANDARD DETAIL GN-1

CITY OF LARAMIE APPROV. LPK MAR 2013

PAVEMENT NOTES

- SUBGRADE COMPACTION AND CONTRACTION JOINTS SHALL CONFORM TO SECTION 02528, WPSS.
- BASE COURSE SHALL BE GRADING W OR H AND SHALL COMPLY WITH SECTION 02190-2.03 OF THE WPSS. AGGREGATE SOURCE AND SIEVE ANALYSIS IS TO BE APPROVED BY THE CITY ENGINEER PRIOR TO USE. ~~STREETS SHALL HAVE A MINIMUM THICKNESS AS SHOWN BELOW, UNLESS SOIL TESTS AND INDEPENDENT STREET SECTION DESIGN ARE SUBMITTED AND APPROVED.~~ AGGREGATE FOR ROAD BASE FOR SURFACE APPLICATIONS (GRAVEL ROADS, ALLEYS, AND OTHER AREAS WHERE BASE IS NOT TO BE COVERED BY ASPHALT OR CONCRETE) SHALL HAVE AN L.A. ABRASION (AASHTO T 96) RATING OF 40% OR LESS, AND SHALL HAVE A NON-LIMESTONE SOURCE APPROVED BY THE CITY ENGINEER.

~~LOCAL AND PUD STREETS 12"~~
~~COLLECTOR STREETS 15"~~
~~ARTERIAL STREETS 16"~~
- HOT PLANT MIX ASPHALT SHALL BE CLASS 2, PG64-28 POLYMER MODIFIED WITH A MAXIMUM OF 5% POLYMERS. THE ASPHALT CEMENT SHALL COMPRISE 4 TO 7% OF THE MIXTURE. THE AGGREGATE SHALL CONFORM TO SECTION 02190 OF THE WPSS SECTION 02190-2.07.
- THE TACK COAT SHALL BE CSS1, A MINIMUM OF 57% ASPHALT, APPLIED AT A RATE OF 0.05 TO 0.15 GAL/SQ YD, AND SHALL CONFORM TO SECTION 02551 OF THE WPSS. TACK COAT SHALL BE PLACED BETWEEN ALL LIFTS OF ASPHALT AND BETWEEN ALL HORIZONTAL JOINTS.
- TYPE III SLURRY SEAL SHALL BE USED IF REQUIRED. SPECIFIC REQUIREMENTS SHALL BE APPROVED BY THE CITY OF LARAMIE STREET DIVISION MANAGER.
- CHIP SEAL SHALL BE USED IF REQUIRED. SPECIFIC REQUIREMENTS SHALL BE APPROVED BY THE CITY OF LARAMIE STREET DIVISION MANAGER. CHIP SEAL SHALL BE APPLIED ON ALL NEWLY PAVED STREETS AS A WEARING COURSE.
- BASE ASPHALT COURSES SHALL BE A MAXIMUM MATERIAL GRADING SPECIFICATION OF 3/4". ALL ASPHALT WEARING COURSES SHALL BE A MAXIMUM MATERIAL GRADING SPECIFICATION OF 1/2" OR 3/8". GRADATIONS SHALL CONFORM TO WPSS 02190-2.07-2.08.
- ~~CURB IS ASSUMED TO BE 3" UNLESS A GEOTECHNICAL REPORT IS SUBMITTED TO THE CITY ENGINEER.~~
- CONCRETE COLLARS SHALL BE INSTALLED ON ALL MANHOLES, VALVE RISERS, AND ALL OTHER APPURTENANCES. VALVE RISER COLLARS SHALL NOT BE INSTALLED WHEN ON A GRAVEL STREET SURFACE.
- SEPARATION FABRIC IS REQUIRED UNDER ALL STREET SECTIONS WHERE CURB IS LESS THAN 6" AND MUST CONFORM TO THE SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS OR SHALL BE MIRAFI 560X OR EQUIVALENT.
- ~~A GEOTEXTILE OR STABILIZATION MATERIAL IS REQUIRED UNDER ALL STREET SECTIONS WHEN THE CURB IS LESS THAN 6" AND MUST CONFORM TO THE SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS OR SHALL BE MIRAFI 56X OR EQUIVALENT.~~

GENERAL NOTES STANDARD DETAIL GN-2

CITY OF LARAMIE APPROV. LPK MAR 2013

CURB & GUTTER, SIDEWALK NOTES

- VALLEY GUTTERS AND CURB RETURNS SHALL HAVE A MINIMUM BASE DEPTH OF 8" OR EQUAL TO THE ADJOINING STREET(S) AND SHALL HAVE FIBER REINFORCING.
- 6" CONCRETE REQUIRED FOR ALL SIDEWALK, DRIVEWAY APPROACHES AND ACCESSES.
- SIDEWALK SHALL BE PLACED SEPARATELY FROM CURB & GUTTER WHERE MATCHING EXISTING CURB LINES. MONOLITHIC CURB, GUTTER, AND SIDEWALK CAN BE USED ON NEW SUBDIVISIONS OR UPON APPROVAL OF THE CITY ENGINEER.
- BASE COURSE, GRADING W OR H, 6" IN DEPTH, SHALL BE REQUIRED UNDER ALL SIDEWALKS, PATHWAYS, CURB AND GUTTER, AND DRIVEWAY/ALLEY APPROACHES. DEPTH OF BASE MAY BE INCREASED IF DIRECTED BY THE CITY ENGINEER.
- CONTRACTION JOINTS SHALL BE AT 5' INTERVALS FOR SIDEWALK, 10' FOR CURB AND GUTTER. A SPACING OF 7.5' IS ACCEPTABLE FOR MONOLITHIC CURB, GUTTER, AND SIDEWALK POURS ONLY.
- JOINTING SHALL BE DONE IN CONFORMANCE WITH SECTIONS 02520 & 02776 OF THE WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS.
- ALTERNATING CONTRACTION JOINTS TO ALIGN WITH JOINTS IN ADJACENT CURB AND GUTTER.
- SIDEWALK AND PARKWAY CROSS-SLOPE SHALL BE 2% UP FROM STREET SIDE.
- ~~ROLL-OVER CURB USED FOR 60' ROW IN RESIDENTIAL AND ALL PUD STREETS. HIGHBACK CURB USED FOR COLLECTORS AND ARTERIALS.~~
- CURB RETURN FILLETS ARE REQUIRED AT ALL INTERSECTION CORNERS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

CURB RAMP NOTES

- ADA MINIMUM SIDEWALK AND RAMP WIDTH SHALL BE 5 FT FOR A STANDARD SIDEWALK, 4 FT FOR EXISTING INFRASTRUCTURE WHERE IT IS NOT FEASIBLE TO CONSTRUCT 5 FT.
- A MAXIMUM OF 2% CROSS-SLOPES FOR SIDEWALKS AND LANDINGS MUST BE PROVIDED FOR DRAINAGE. SLOPE TOWARDS CURB AND GUTTER UNLESS OTHERWISE SHOWN.
- PROVIDE COLORED DETECTABLE WARNING DEVICES AT ALL LOCATIONS WHERE THE CURB RAMP ENTERS INTO A STREET OR PARKING LOT. PLATES MUST BE CAST IRON, TYPICALLY 2 FT SQUARE, 2"-PLATE MINIMUM PER 5 FT RAMP.
- RAMP SLOPES SHALL NOT EXCEED 8%.
- LANDINGS MUST BE PROVIDED WITH A MAXIMUM SLOPE OF 2% AND 5 FT WIDE TO ACCOMMODATE WHEEL CHAIR TURNING AT THE TOP OF THE RAMP. IF A 5 FT LANDING CANNOT BE PROVIDED AT THE TOP OF A PERPENDICULAR CURB RAMP, PROVIDE A 4 FT LANDING AND USE FLARES WITH AN 8% SLOPE.
- CONSTRUCT FLARED SIDE RETURNS WHEN A SIDEWALK IS ADJACENT TO THE RAMP. DO NOT EXCEED 8% SLOPE. IF RAMP SIDES ARE ADJACENT TO AN APPURTENANCE WHICH PRECLUDES PEDESTRIAN USE, CURB RETURNS MAY BE VERTICAL.
- VERTICAL TRANSITIONS FROM CURB RAMP TO GUTTER AND FROM GUTTER TO STREET SURFACE MUST BE FLUSH AT ALL RAMP LOCATIONS (P.C. TO P.T. ON STANDARD INTERSECTION CORNERS). ALL CONTACT TO CURB AND GUTTER SHALL BE FASTENED BY REBAR.

GENERAL NOTES STANDARD DETAIL GN-3

CITY OF LARAMIE APPROV. LPK MAR 2013

TYPE III ROAD CLOSED BARRICADE

NOTES:

- A SINGLE TYPE III BARRICADE SHALL BE USED FOR LOCAL STREETS.
- FOR COLLECTOR AND ARTERIAL STREETS, ONE TYPE III BARRICADE AS SHOWN SHALL BE ACCOMPANIED BY ONE EACH TYPE III-LEFT AND TYPE III-RIGHT BARRICADES. TYPE III-LEFT AND RIGHT BARRICADES SHALL BE MINIMUM 4' WIDE, SPACED EVENLY 4' TO 6' EACH SIDE OF THE TYPE III CENTER BARRICADE.
- TYPE III BARRICADES ARE ALTERNATING REFLECTIVE ORANGE AND WHITE STRIPING, 4" WIDE.
- FLASHERS MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.
- JERSEY BARRIERS ARE NOT ACCEPTABLE AND SHALL NOT BE USED.

GENERAL NOTES STANDARD DETAIL CN-1

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NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION PLAN SET	MAR 2016	RED
2	REVISED CONSTRUCTION PLAN SET	MAY 2016	RED

CITY OF LARAMIE APPROV. LPK MAR 2013

WATER LINE NOTES

- TRACE WIRE SHALL BE INSTALLED ALONG THE TOP CENTERLINE OF THE PIPE ON ALL PVC WATERLINES. WIRE SHALL BE TAPED TO THE TOP CENTER OF PIPE AND PROVIDE CONTINUITY THROUGHOUT THE SYSTEM. CONTINUITY SHALL BE DOCUMENTED BY TESTING PRIOR TO ACCEPTANCE. TRACE WIRE SHALL BE RUN UP OUTSIDE VALVE RISER, THEN INSIDE AND LOOPED FOR CONTINUITY.
- TRACE WIRE SHALL BE RAN ALONG THE FIRE LEG, THEN UP THE SIDE OF THE HYDRANT ASSEMBLY, AND ATTACHED TO STAINLESS STEEL BOLTS INSIDE TRACE WIRE ACCESS BOXES NEAR EACH HYDRANT.
- TRACE WIRE MUST BE INSTALLED WITH ALL VALVES AND HYDRANTS, INCLUDING BLOWOFF HYDRANTS PER THESE STANDARD DETAILS. TRACE WIRE SHALL BE EXTENDED 1 FOOT BEYOND THE FINISHED GRADE SURFACE FOR EASE OF ACCESS.
- TRACE WIRE SHALL BE A MINIMUM OF 12 GAUGE SOLID STRAND COPPER CONDUCTOR WITH A POLYVINYL CHLORIDE (PVC) INSULATION, OVER WHICH A NYLON (POLYAMIDE) JACKET IS APPLIED AND RATED FOR 600 VOLTS.
- ALL CAP SCREWS AND T-BOLTS BELOW FINISH GRADE SHALL BE STAINLESS STEEL. ANTI-SEIZE COMPOUND SHALL BE USED FOR STAINLESS STEEL BOLT INSTALLATION.
- ALL BURIED METALLIC APPURTENANCES EXCEPT VALVE BOXES AND CURB STOP BOXES SHALL BE APPROPRIATELY CATHODICALLY PROTECTED USING A MINIMUM 17# PACKAGED ANODE. ANODES SHALL BE CONNECTED TO THE APPURTENANCE BY THERMITE WELD SPECIFIC FOR APPLICATION, OR BY COPPER GROUND ROD CLAMP TO TAPPING SADDLE BOLT- THEN TAR COATED.
- D&L A-1019 FROST-PROOF MANHOLE RING AND COVER OR APPROVED EQUAL SHALL BE INSTALLED ON ALL VAULTS.
- VAULTS FOR METERS GREATER THAN 10" REQUIRED SHALL BE DESIGNED ON A CASE-BY-CASE BASIS.
- METER VAULTS SHALL BE TWO PIECE CONSTRUCTION WITH SEPARATE LID SECTION. LID SECTION SHALL HAVE TWO 24" DIAMETER ACCESS HOLES AT OPPOSITE CORNERS OF THE LONG DIMENSION. ACCESS OPENING SHALL BE FROST PROOF RING AND COVER. METER VAULT LID AND ACCESS SHALL BE RATED FOR HS-20-44 LOADING. METER VAULTS SHALL BE WATERTIGHT.
- ALL APPARATUS WITHIN A METER VAULT SHALL BE 2 FEET FROM ALL OBSTRUCTIONS, AND SHALL BE SUPPORTED AS SHOWN IN METER VAULT DETAIL.
- PRECAST CONCRETE VAULTS SHALL CONFORM TO 03480, WPSS. JOINT SEALANT SHALL CONFORM TO ASTM C-993. COMPRESSIVE STRENGTH TEST RESULTS MEETING THE REQUIREMENTS OF ASTM C-39 SHALL BE PROVIDED PRIOR TO DELIVERY.
- JOINTS IN VAULT WALLS SHALL BE SHIP-LAPPED AND WATERTIGHT.
- STEPS SHALL BE PROVIDED IN AT LEAST ONE ACCESS HOLE. STEPS SHALL BE WITHIN 24" OF THE TOP OF THE VAULT AND SHALL BE NO LESS THAN 12" AND NO MORE THAN 16" CENTER-TO-CENTER.
- BACKFLOW DEVICES SHALL MEET OR EXCEED ASSE STANDARDS.
- ALL WATER SERVICES SHALL BE BACKFLOW PROTECTED AT THE METER.

GENERAL NOTES STANDARD DETAIL GN-4

CITY OF LARAMIE APPROV. LPK MAR 2013

WATER LINE NOTES (CONT.)

- COMMERCIAL INTERIOR METER SETS SHALL INCLUDE A FLOOR DRAIN WITH CAPACITY EQUAL TO TWICE THE AREA TO PROVIDE FOR DRAINAGE.
- A WATER VALVE IS REQUIRED ON ALL SERVICE TAPS 4 INCHES OR GREATER AT THE MAIN AND AT PROPERTY LINE FOR ALL VAULTS.
- ALL VALVE BOXES SHALL BE WRAPPED IN A MINIMUM OF 8 MIL POLYETHYLENE WRAP.
- ALL MEGA-LUGS SHALL HAVE ANODE JUMPERS TO A CATHODICALLY PROTECTED FITTING. JUMPER WIRE SHALL BE SAME GAUGE AS CATHODE WIRES AND COATED TO PROTECT FROM DEGRADING.
- METER PITS ARE TO BE INSTALLED IN REPLACEMENT OF EXISTING PITS ONLY. WHEN POSSIBLE AND FEASIBLE, METER SETS ARE TO BE MOVED INSIDE THE BUILDING.
- NEW WATER SERVICE INSTALLATIONS CONNECTING TO EXISTING SERVICE LINES SHALL HAVE THE CURB STOP AND METER PIT INSTALLED AT 6 FOOT DEPTH AT FINISH GRADE. ADJUSTMENTS FOR DIFFERENCES IN ELEVATION OF EXISTING PIPELINES SHALL BE COMPLETED AFTER THE CURB STOP AND METER PIT OR AT THE PROPERTY LINE, WHICHEVER LOCATION IS FURTHER FROM THE WATER MAIN.
- EXISTING CURB STOPS ON PROPERTY SHALL BE FULLY REMOVED AND REPLACED WITHIN THE CITY RIGHT-OF-WAY.
- VAULTS ARE TO BE INSTALLED IN REPLACEMENT OF EXISTING VAULTS ONLY. WHEN POSSIBLE AND FEASIBLE, METER SETS ARE TO BE MOVED INSIDE THE BUILDING.
- NEW CONSTRUCTION FOR BOTH COMMERCIAL AND RESIDENTIAL BUILDINGS SHALL INCLUDE INTERIOR METER SETS.
- ALL DEAD-END LINES SHALL BE EXTENDED TO THE PROPERTY OR SUBDIVISION LINE. A FIRE HYDRANT OR BLOWOFF HYDRANT SHALL BE INSTALLED AT THE END OF THE WATERLINE EXTENSION. THE HYDRANT SHALL BE REPLACED WITH A VALVE AND REMOVED WHEN THE WATERLINE IS EXTENDED.
- ALL FITTINGS, VALVES, AND FIRE HYDRANT ASSEMBLIES SHALL USE MECHANICAL RESTRAINTS (EG. MEGALUGS) FOR CONNECTION TO THE SYSTEM. BOLTS AND NUTS USED SHALL BE STAINLESS STEEL ONLY.
- ALL HOT TAPS MADE TO THE EXISTING SYSTEM SHALL USE A STAINLESS STEEL TAPPING SADDLE THAT WILL ACCEPT A M&M VALVE.
- ALL NEW SUBDIVISIONS TAPPING THE EXISTING SYSTEM SHALL USE HOT TAPS. IN ADDITION TO THE TAPPING VALVE, AN ADDITIONAL VALVE SHALL BE INSTALLED AT THE PROPERTY LINE.
- CURB STOPS AND METER PITS SHALL NOT BE LOCATED WITHIN THE STREET, CURB, DRIVEWAY, OR SIDEWALK, AND SHALL BE 1 FOOT FROM ALL OBSTRUCTIONS. WHEN LOCATED WITHIN A PARKWAY, CURB STOP AND METER PIT SHALL BE CENTERED, AND 10 FEET FROM ANY OBSTRUCTION OR POLE IF POSSIBLE.
- MINIMUM PIPE LENGTH SHALL BE 10 FEET.
- COMMERCIAL FIRE AND DOMESTIC SERVICES SHALL BE RAN SEPARATELY FROM THE WATER MAIN TO THE BUILDING. MINIMUM OF 4 INCH FIRE LEG IS REQUIRED. RESIDENTIAL CONSTRUCTION MAY USE A SINGLE SERVICE, SPLITTING AT THE BUILDING FOR DOMESTIC AND FIRE SERVICES.
- DEAD-END LINES GREATER THAN 10 FEET MUST HAVE A BLOW-OFF HYDRANT INSTALLED.

GENERAL NOTES STANDARD DETAIL GN-5

CITY OF LARAMIE APPROV. LPK MAR 2013

AGGREGATE FOR HOT PLANT MIX ASPHALT
WPSS 02190-2.07

Sieve Designation	MM	3/4" MAX	1/2" MAX
1"	25	100	-
3/4"	19	97-100	100
1/2"	12.5	-	97-100
3/8"	9.5	60-85	-
#4	4.75	40-65	45-70
#8	2.36	25-55	25-55
#30	0.60	10-35	15-40
#200	0.075	2-10	2-11

AGGREGATE FOR UNTREATED SUB-BASE AND BASE
WPSS 02190-2.03

Sieve Designation	Grading H	Grading W
2"	-	-
1 1/2"	-	100
1"	100	95-100
3/4"	95-100	-
#4	45-65	45-65
#8	33-53	33-53
#200	3-12	3-12

NOTES:

- AGGREGATE SPECS ABOVE ARE SHOWN AS CRUSHER SPECIFICATIONS.
- AGGREGATE FOR HOT PLANT MIX SHALL MEET COMPOSITION OF MIXTURES AS DETAILED IN WPSS 2512, SECTION 2.01-D.

GENERAL NOTES - SIEVE ANALYSIS STANDARD DETAIL GN-6

CITY OF LARAMIE APPROV. LPK MAR 2013

THRUST BLOCK PLACEMENT FOR WATER MAIN

MINIMUM DIMENSIONS FOR THRUST BLOCKS

FITTING SIZE	TEES & PLUGS		90° BENDS		45° BENDS & WYES		REDUCERS & 22 1/2° BENDS		11 1/4° BENDS	
	A	B	A	B	A	B	A	B	A	B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"	0'-6"	0'-6"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"	0'-6"	0'-6"
8"	2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-11"	1'-9"	1'-8"	1'-0"	1'-0"
10"	3'-4"	3'-3"	4'-0"	3'-10"	3'-0"	2'-9"	2'-2"	1'-11"	1'-6"	1'-0"
12"	4'-0"	3'-10"	4'-8"	4'-8"	3'-8"	3'-3"	2'-7"	2'-3"	2'-0"	1'-0"
14"	5'-5"	3'-10"	6'-6"	4'-11"	4'-9"	3'-5"	3'-5"	2'-5"	2'-0"	1'-6"
16"	5'-0"	5'-0"	6'-0"	6'-0"	5'-0"	4'-0"	3'-6"	3'-0"	3'-0"	2'-0"
18"	5'-0"	5'-0"	6'-0"	6'-0"	5'-0"	4'-0"	3'-6"	3'-0"	3'-0"	2'-0"
20"	5'-0"	5'-0"	6'-0"	6'-0"	5'-0"	4'-0"	3'-6"	3'-0"	3'-0"	2'-0"
24"	6'-0"	6'-0"	7'-0"	7'-0"	5'-0"	5'-0"	4'-6"	3'-0"	3'-0"	3'-0"
30"	7'-6"	7'-6"	8'-0"	8'-0"	6'-3"	6'-3"	4'-9"	4'-6"	3'-3"	3'-3"
36"	8'-6"	8'-6"	9'-0"	9'-0"	7'-4"	7'-4"	5'-0"	5'-0"	3'-7"	3'-7"

GENERAL NOTES STANDARD DETAIL CN-2

CITY OF LARAMIE STANDARD DETAILS

CITY OF LARAMIE LINFORD SCHOOL DRAINAGE IMP.

PROJECT NO. 32710207

CITY LARAMIE

COUNTY ALBANY

STATE WYOMING

DESIGNED BY RED

CHECKED BY AGM

SHEET 72 OF 77

DT-04

