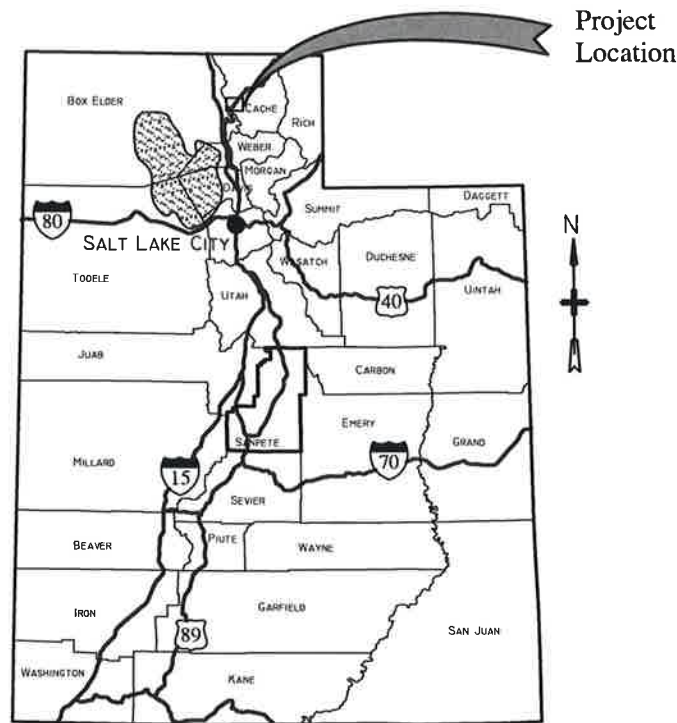


Logan City

Center Street Bridge Foundation Stabilization

VOLUME 1 OF 1
DRAWINGS
APRIL 2019

Issued For
Bidding
Plot Date: 6/3/2019



Utah

SIGNATURES

THESE PLANS HAVE BEEN REVIEWED AND APPROVED BY THE FOLLOWING:

PUBLIC WORKS DIRECTOR:

Paul Lindhardt 6-4-19
PAUL LINDHARDT, P.E. DATE

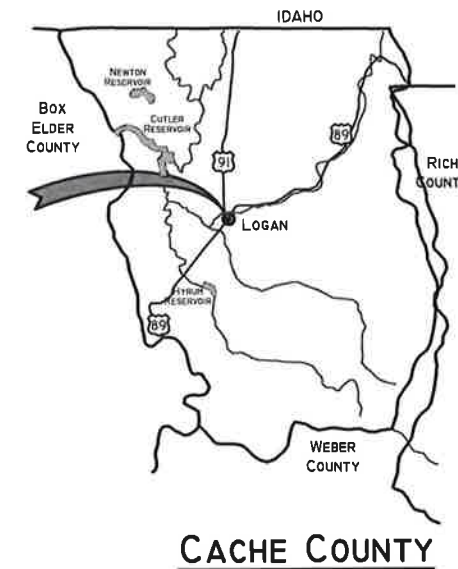
STREETS DIVISION MANAGER:

Paul Lindhardt for Jed A. 6-4-19
JED AL-IMARI DATE

CITY ENGINEER:

Bill Young 6/4/19
BILL YOUNG, P.E. DATE

PROJECT LOCATION



CACHE COUNTY



FRANSON
CIVIL ENGINEERS



1276 South 820 East, Suite 100
American Fork, UT 84003
T 801 756-0309 F 801 756-0481



NO.	DATE	INTS.	DESCRIPTION
DESIGNER:	LANCE HOUSER		
DRAFTSMAN:	MATT GUMM		
CHECKED:		CHECKED:	
REVIEWED:		REVIEWED:	
PROJECT LEADER:	LANCE HOUSER	PROJECT LEADER:	LANCE HOUSER
PRINT DATE:	JUNE 3, 2019	PRINT DATE:	JUNE 3, 2019

LOGAN CITY
CENTER STREET BRIDGE FOUNDATION STABILIZATION
COVER, LOCATION MAPS

Generals.dwg
PATY\Nishem\Logan City Special Services\Logan City Center Street
Bridge\Drawings\Design Drawings
LAYOUTL Cover

JOB NO.
NU 0064

SHEET INDEX

GENERAL SET

- G1 COVER, LOCATION MAPS
- G2 SHEET INDEX, LEGEND, GENERAL NOTES
- G3 PROJECT SPECIFIC NOTES
- G4 STORM WATER NOTES

PLAN AND PROFILES

- P1 PLAN AND PROFILE
- P2 SECTIONS 1
- P3 SECTIONS 2

DETAILS

- D1 DETAILS 1
- D2 DETAILS 2

LEGEND

SECTION/VIEW/DETAIL TITLE LABELS



SECTION REFERENCES

- A REFERS TO THE SECTION DESIGNATION LABEL (TOP)
- 4 REFERS TO THE SHEET WHERE THE VIEW/SECTION IS SHOWN (BOTTOM)



VIEW/DETAIL REFERENCES

- A REFERS TO THE VIEW/DETAIL DESIGNATION LABEL (TOP)
- 7 REFERS TO THE SHEET WHERE THE DETAIL IS SHOWN (BOTTOM)



GENERAL NOTES

STANDARDS AND SPECIFICATIONS

1. ALL CONSTRUCTION SHALL MEET CITY OF LOGAN STANDARDS AND SPECIFICATIONS (APWA 2017, AS AMENDED BY LOGAN CITY AS OF DATE APPROVED FOR CONSTRUCTION BY ENGINEER). STANDARDS AND SPECIFICATIONS CAN BE VIEWED AND PRINTED AT: [HTTP://WWW.LOGANUTAH.ORG/GOVERNMENT/DEPARTMENTS/PUBLIC_WORKS/ENGINEERING/ENGINEERING_DOCS.PHP](http://www.loganutah.org/government/departments/public_works/engineering/engineering_docs.php)
2. ANY AMBIGUITIES OR CONFLICTS IDENTIFIED BY THE CONTRACTOR, CONTRACTOR'S REPRESENTATIVE, ENGINEER, OR ENGINEER'S REPRESENTATIVE SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY. THESE SHALL BE RESOLVED AT NO ADDITIONAL COST TO THE CITY BASED ON THE FOLLOWING ORDER OF PRECEDENCE (PER APWA 2007 SECTION 00 72 00, PART 3, SECTION 3.3) EXCEPT AS NOTED HEREIN:
 - 2.1. CONTRACT FOR CONSTRUCTION (FROM BID DOCUMENTS)
 - 2.2. MODIFICATIONS, ADDENDUMS, OR CHANGE ORDERS SHALL TAKE PRECEDENCE OVER ALL PREVIOUS MODIFICATIONS, ADDENDUMS, OR CHANGE ORDERS.
 - 2.3. APWA 2007 GENERAL CONDITIONS SECTION 00 72 00 AS AMENDED BY LOGAN CITY
 - 2.4. SPECIAL OR SUPPLEMENTAL SPECIFICATIONS
 - 2.5. PLANS (DRAWINGS)
 - 2.5.1. WRITTEN DIMENSIONS OVER MEASURED DIMENSIONS
 - 2.5.2. SPECIAL DETAILS OVER PLANS AND PROFILES EXCEPT THAT LOGAN CITY STANDARD DETAILS SHALL TAKE PRECEDENT OVER CONSTRUCTION DETAILS UNLESS STATED OTHERWISE BY CITY ENGINEER.
 - 2.6. STORM WATER POLLUTION PREVENTION PLAN AND OTHER PERMITS
 - 2.7. LOGAN CITY AMENDMENTS TO APWA 2007 STANDARD DRAWINGS
 - 2.9. LOGAN CITY AMENDMENTS TO APWA 2007 STANDARD SPECIFICATIONS
 - 2.10. APWA 2017 STANDARD DRAWINGS
 - 2.11. APWA 2017 STANDARD SPECIFICATIONS
3. CONTRACTOR IS SOLELY RESPONSIBLE TO REVIEW AND FULLY UNDERSTAND THE PLANS DURING BIDDING. DEVIATIONS OR DISCREPANCIES ARE TO BE IDENTIFIED DURING BIDDING IF AND WHEN IDENTIFIED.

SAFETY IN THE WORK ZONE

1. ALL PERSONNEL ARE REQUIRED TO WEAR HARD-HATS AND STEEL TOE BOOTS WITHIN THE WORK ZONE. ADDITIONAL SAFETY TO INCLUDE WORKING UNDER BRIDGE AND IN WATER.
2. ORANGE OR FLORESCENT YELLOW VESTS OR CLOTHING SHALL BE WORN WHILE WORKING ON THIS PROJECT COMPLIANT WITH THE FOLLOWING:
 - 2.1. CLASS 3 WHILE WORKING AT NIGHT WITHIN UDOT RIGHT-OF-WAY OR WHERE VEHICLE VELOCITIES MAY EXCEED 50 MPH.
 - 2.2. CLASS 2 WHILE WORKING WITHIN LOGAN CITY RIGHT-OF-WAY AND WHERE VEHICLE VELOCITIES ARE LESS THAN 50 MPH.
3. ALL EXCAVATION SHALL BE IN COMPLIANCE WITH OSHA 29 CFS, PART 1926. ALL SOILS SHALL BE CONSIDERED TYPE C WHILE PREPARING TRENCH SHORING CALCULATIONS UNLESS GEOTECHNICAL REPORT SPECIFIES A TYPE D.
4. CONFORM TO ALL OTHER APPLICABLE OSHA RULES AND REGULATIONS WHILE WORKING ON THIS PROJECT.

EXISTING UTILITIES

1. UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY.
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS BY CONTACTING BLUE STAKES AT 1-800-662-4111 OR 811 AND OTHER APPLICABLE UTILITIES PRIOR TO EXCAVATION.
3. UTILITY CONTACTS ARE AS FOLLOWS:
 - 3.1. WATER AND SANITARY SEWER: CAMERON DRANEY (435) 716-9622 OR KASEY ERICKSON (435) 994-0316.
 - 3.2. STORM WATER: JED AL-IMARI (435) 881-4327 OR SHAWN HANSEN (435) 994-0526.
 - 3.3. LOGAN CITY LIGHT AND POWER: STEVE CROSBY (435) 716-9745 OR (435) 757-8530.
 - 3.4. COMCAST: ALEX VASQUEZ (801) 245-5314
 - 3.5. CENTURY LINK: PAUL HIGBY (435) 232-3916
 - 3.6. QUESTAR: NICK WHITE (435) 213-5662 OR (435) 755-2205
4. CONTRACTOR SHALL POT-HOLE AND LOCATE EXISTING UTILITIES WHEN NECESSARY TO ENSURE CONSTRUCTION DOES NOT IMPACT EXISTING UTILITIES AND THAT THE LOCATION OF EXISTING UTILITIES DOES NOT AFFECT CONSTRUCTION. POT-HOLING SHALL BE DONE AT THE BEGINNING OF THE PROJECT IN ORDER TO PROVIDE UTILITY OWNERS ADEQUATE TIME TO RELOCATE SERVICES IF NECESSARY OR TO ALLOW ENGINEER TO REDESIGN PRIOR TO FABRICATION OF PRE-CAST STRUCTURES.
5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS AND REPAIRS DUE TO DAMAGE OF EXISTING UTILITIES. ALL UTILITIES MAY NOT BE SHOWN ON PLANS.
6. ALL UTILITIES SHALL BE KEPT IN WORKING ORDER EXCEPT FOR THE MINIMUM TIME NEEDED FOR EXCAVATION, TRENCHING, CONNECTIONS, ETC.
7. APPROVAL FROM THE CITY ENGINEER IS REQUIRED PRIOR TO WATER AND SEWER SHUT-DOWNS IF REQUIRED TO COMPLETE THIS PROJECT. ALL AFFECTED ENTITIES AND PROPERTY OWNERS SHALL BE NOTIFIED 72 HOURS PRIOR TO APPROVED SHUTDOWNS.

PERMITS

1. CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS REQUIRED FOR THIS PROJECT.
2. CONTRACTOR SHALL OBTAIN AND KEEP COPIES OF ALL REQUIRED PERMITS AT PROJECT LOCATION DURING REASONABLE WORKING HOURS.
3. CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT (CITY OF LOGAN) PRIOR TO INITIATING ANY SITE DISTURBANCE OR CONSTRUCTION IN LOGAN CITY RIGHT OF WAY.
4. IF DEWATERING IS REQUIRED, CONTRACTOR SHALL OBTAIN DEWATERING PERMITS FROM THE STATE OF UTAH DIVISION OF WATER QUALITY AND COMPLY WITH ALL STATE REQUIREMENTS.
5. CONTRACTOR SHALL OBTAIN A LOGAN CITY LAND DISTURBANCE PERMIT.
6. LOGAN CITY IS OBTAINING A STREAM ALTERATION PERMIT IN ACCORDANCE WITH SECTION 404 OF THE CLEAN WATER ACT. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL REQUIREMENTS OF THE STREAM ALTERATION PERMIT. A COPY OF THIS SUBMITTED PERMIT APPLICATION IS INCLUDED WITH THE BID DOCUMENTS. THE FINAL PERMIT AND REQUIREMENTS WILL BE IN INCLUDED IN THE CONTRACT.

CONSTRUCTION NOTES

SURVEY AND CONSTRUCTION STAKING

1. ALL CONSTRUCTION SURVEY ON THIS PROJECT WILL BE PROVIDED BY LOGAN CITY PUBLIC WORKS.
2. CONTRACTOR SHALL SCHEDULE ALL SURVEY REQUESTS A MINIMUM OF 24 HOURS IN ADVANCE.

ACCESS RESTRICTIONS, ROAD AND LANE CLOSURES, PEDESTRIAN ACCESS AND TRAFFIC CONTROL PLAN

1. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN, ADEQUATE TRAFFIC CONTROL, SIGNING, BARRICADING, AND PEDESTRIAN DIRECTION THROUGH AND AROUND THE CONSTRUCTION WORK ZONE IN COMPLIANCE WITH THE UDOT MUTCD AS REQUIRED BY UTAH STATE LAW (R920-1).
2. THE TRAFFIC CONTROL PLANS SHALL BE PROVIDED TO THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO THE PRE-CONSTRUCTION MEETING TO ALLOW REVIEW FOR APPROVAL. COMMENTS AND REQUIRED CHANGES SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ALL CORRECTIONS SHALL BE INCORPORATED INTO THE TRAFFIC CONTROL PLAN BEFORE A WORK IN THE RIGHT-OF-WAY PERMIT WILL BE ISSUED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TRAFFIC CONTROL AS PART OF THIS PROJECT.
4. CONTRACTOR SHALL INSPECT TRAFFIC CONTROL DAILY TO ENSURE A SAFE WORK ZONE.
5. ANY SIGNIFICANT MODIFICATIONS TO THE TRAFFIC CONTROL PLAN DURING CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
6. PROPERTY OWNERS, RESIDENTS, AND BUSINESSES SHALL BE GIVEN 48 HOURS NOTICE OF ANY DRIVEWAY ACCESS RESTRICTIONS DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING HOMEOWNERS, RESIDENTS, AND BUSINESSES AS NEW PIPING AND CONCRETE ARE INSTALLED.
7. ACCESS TO ALL RESIDENCES WITHIN THE PROJECT AREA SHALL BE COORDINATED WITH OWNERS AND REASONABLY MAINTAINED DURING CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE NOTICE OF ROAD CLOSURE TO LOCAL AREA RESIDENTS, EMERGENCY SERVICES, CACHE COUNTY SCHOOL DISTRICT, LOGAN RIVER ENVIRONMENTAL DEPARTMENT, AND CACHE VALLEY TRANSIT DISTRICT AT LEAST 48-HOURS IN ADVANCE OF CLOSURE. THROUGH TRAFFIC MUST BE MAINTAINED TO THE GREATEST EXTENT REASONABLE AND SAFE.
9. CONTRACTOR SHALL COORDINATE LANE CLOSURES AND PARTIAL AND COMPLETE ROAD CLOSURES WITH THE CITY ENGINEER.
10. ROAD CLOSURE IS ALLOWED ON CONDITION OF CONTINUAL WORK IN THE ROADWAY. THE ROADWAY SHALL BE OPENED TO THROUGH TRAFFIC AT EVERY OPPORTUNITY WHEN CONDITIONS ARE SAFE AND WORK CREWS ARE NOT ACTIVELY WORKING IN THE ROADWAY.

QUALITY CONTROL TESTING

1. CONTRACTOR SHALL EMPLOY AN APPROVED QUALITY CONTROL TESTING AGENCY TO PROVIDE TESTING FOR THE SITE IN ACCORDANCE WITH THE APPROPRIATE SECTIONS OF APWA MANUAL OF STANDARDS AND SPECIFICATIONS AS AMENDED BY LOGAN CITY.
2. THE CONTRACTOR QUALITY CONTROL TESTING AGENCY SHALL PROVIDE PROCTOR, GRADATION, AND CBR VALUES FOR PROPOSED GRANULAR BACKFILL BORROW AND UNTREATED BASE COURSE AT THE PRE-CONSTRUCTION MEETING. COMPACTION TESTS SHALL BE PROVIDED AT LEAST AT THE INTERVALS REQUIRED IN APWA 2017 STANDARD SPECIFICATIONS AS AMENDED BY LOGAN CITY.
3. CONTRACTOR QUALITY CONTROL TESTING AGENCY SHALL PROVIDE CONCRETE TESTING INCLUDING AIR, SLUMP, 7 DAY BREAK TEST, AND 28 DAY BREAK TESTS AS REQUIRED BY APWA SECTION 03 30 05.
4. FIELD TEST RESULTS SHALL BE IMMEDIATELY SUBMITTED TO THE CITY ENGINEER, THE DESIGNATED PUBLIC WORKS INSPECTOR FOR THE PROJECT, AND A COPY OF EACH REPORT KEPT ONSITE. EACH FAILED FIELD TEST AND ITS CORRESPONDING PASSING TEST SHALL BE CLEARLY IDENTIFIED IN EACH FIELD TEST REPORT.
5. LABORATORY TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR THE CITY OF LOGAN WITHIN 48 HOURS OF DETERMINATION.
6. A FINAL SUMMARY REPORT, IN TABULAR FORM, SHALL BE SUBMITTED TO THE ENGINEER FOR THE CITY OF LOGAN PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE FINAL SUMMARY REPORT SHALL INCLUDE TABULAR RESULTS SHOWING EACH FAILED TEST AND ITS CORRESPONDING PASSING TEST.

Issued For Bidding
 Plot Date: 6/3/2019

1276 South 820 East, Suite 100
American Fork, UT 84003
T 801.756.0309 F 801.756.0481

PROFESSIONAL ENGINEER
LANCE ERIC HOUSER
No. 18507-2802
EXPIRES 12/31/2019

DESIGNER	DRAFTSMAN	CHECKED	REVIEWED	REVISIONS	
				NO.	DESCRIPTION
LANCE HOUSER	MATT GUER				
PROJECT LEADER	FRONT DATE				
LANCE HOUSER	JUNE 3, 2019				

LOGAN CITY

CENTER STREET BRIDGE FOUNDATION STABILIZATION

General.dwg

Logan City Special Services/Logan City Center Street

SHEET

G2 OF G4

JOB NO.

NU 0064

LAYOUT: Index Notes

STORM WATER POLLUTION PREVENTION INFORMATION

SITE EVALUATION, ASSESSMENT, AND PLANNING

PROJECT SITE/NAME: CENTER STREET BRIDGE REPAIR
 PROJECT LOCATION: SEE COVER SHEET
 CITY: LOGAN, UTAH 84321
 COUNTY: CACHE
 LATITUDE/LONGITUDE (GOOGLE EARTH)
 LAT: 41°43'51.85" NORTH LONG: 111°48' 54.49" WEST

CONTACT INFORMATION AND RESPONSIBLE PARTIES:

OWNER: LOGAN CITY
 290 NORTH 100 WEST
 LOGAN, UT 84321
 (435) 716-9152 (PUBLIC WORKS)

PROJECT MANAGER:
 BILL YOUNG,
 LOGAN CITY ENGINEER
 290 NORTH 100 WEST
 LOGAN, UT 84321
 (435) 716-9160
 BILL.YOUNG@LOGANUTAH.ORG

STORMWATER MANAGER AND SWPPP CONTACT
 TBD-THIS IS TO BE FILLED IN BY THE CONTRACTOR

LOGAN CITY REGULATORY STORMWATER INSPECTOR
 LYNN MAYS
 LOGAN CITY STREETS AND STORMWATER FOREMAN
 290 NORTH 100 WEST
 LOGAN, UT 84321
 (435) 716-9167 (DAY)
 (435) 716-9090 (AFTER HOURS EMERGENCY)
 LYNN.MAYS@LOGANUTAH.ORG

NATURE AND SEQUENCE OF CONSTRUCTION

THE CITY IS STABILIZING THE CRITICAL BRIDGE ON CENTER STREET CROSSING THE LOGAN RIVER. THIS BRIDGE IS THE ONLY CROSSING OF THE LOGAN RIVER SERVING THE CLIFF SIDE AREA OF LOGAN. WATER SHALL BE DIVERTED TO ONE SIDE OF THE RIVER, THEN CONCRETE RUBBLE AND DEBRIS REMOVED, THE FOUNDATION VOIDS EXCAVATED, CONCRETE FORMED AND PLACED, AND HAND PLACED RIP RAP INSTALLED. THE LOGAN RIVER SHALL THEN BE DIVERTED TO THE OTHER SIDE OF THE RIVER AND REPEAT THE PROCESS. AT THIS POINT, THE BANKS SHALL BE STABILIZED, ROCK WALLS INSTALLED, AND THE CHANNEL REPAIRED AS THE EQUIPMENT WORKS BACK OUT THROUGH THE ACCESS. THE BANKS SHALL BE RESTORED.

THE FUNCTION OF THIS ACTIVITY IS PUBLIC.
 ESTIMATED START DATE: JULY 2019
 ESTIMATED COMPLETION: SEPTEMBER 2019

SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

THE SOILS ON THIS SITE ARE STEED GRAVELY LOAM AS OBTAINED BY THE NRCS SOILS SURVEY WEBSITE. INFILTRATION RATES AVERAGE 9.9 INCHES PER HOUR ACCORDING TO THE NRCS.

SLOPES ON THIS PROJECT ARE FROM 0 TO 2 PERCENT OUTSIDE OF THE RIVER CHANNEL. HOWEVER, SOME OF THE RIVER CHANNEL BANKS APPROACH VERTICAL.

DRAINAGE PATTERNS: DRAINAGE PATTERNS ARE FROM EAST TO WEST

VEGETATION: VEGETATION RANGES FROM WILLOWS AND DOGWOOD TO LANDSCAPED.

CONSTRUCTION SITE ESTIMATES

CONSTRUCTION SITE AREA TO BE DISTURBED:	0.44 ACRES
TOTAL PROJECT AREA:	0.44 ACRES
PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION:	0%
PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION:	0%
RUNOFF CN NUMBER AFTER CONSTRUCTION:	20 SAME AS BEFORE CONSTRUCTION
100-YEAR PEAK RUNOFF BEFORE CONSTRUCTION:	N/A
100-YEAR PEAK RUNOFF AFTER CONSTRUCTION:	N/A
DETENTION REQUIREMENTS:	0 ACRE-FEET

RECEIVING WATERS

THE RECEIVING WATER FOR THIS PROJECT IS THE LOGAN RIVER.

SITE FEATURES AND SITE SENSITIVE AREAS TO BE PROTECTED

THE LOGAN RIVER BOTH UPSTREAM AND DOWNSTREAM ARE PROTECTED BY THE STREAM ALTERATION PERMIT.

ENDANGERED SPECIES

THERE ARE NO ENDANGERED SPECIES ASSOCIATED WITH THIS SITE. IT IS ALL DEVELOPED ROADWAY.

HISTORIC PRESERVATION

THERE ARE NO HISTORIC SITES LISTED ON THIS PROJECT

GENERAL LOCATION MAP

FOR THE GENERAL LOCATION MAP, SEE COVER SHEET.

BMP EVALUATION FOR 90TH PERCENTILE STORM

THE GENERAL STORMWATER PERMIT DOES NOT APPLY. THIS PROJECT IS GOVERNED BY THE SECTION 404 STREAM ALTERATION PERMIT.

PERMITS REQUIREMENTS AND BMPS

1. THE CONTRACTOR SHALL COMPLY WITH THE STREAM ALTERATION PERMIT.
2. THE CONTRACTOR SHALL ENSURE THAT NO POLLUTION LEAVES THE DESIGNATED WORK ZONE BY IMPLEMENTING STANDARD BMP'S AND COMMON PRACTICES APPROVED BY THE ENGINEER AND DOCUMENTED.
3. CONTRACTOR SHALL NOT DISTURB ANY PORTION OF THE SITE UNTIL THE DEWATERING PLAN IS APPROVED BY THE LOGAN CITY STORM WATER INSPECTOR, CITY ENGINEER, AND CONTRACTOR OBTAINS A LOGAN CITY LAND DISTURBANCE PERMIT.
4. BMPS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL INCLUDE THE ASSOCIATED BMPS FOR EACH OF THE POSSIBLE CONTAMINANT SOURCES INCLUDED IN THE ASSOCIATED POTENTIAL POLLUTANTS INCLUDED ON THIS SHEET. THE POTENTIAL SOURCES IN BOLD TYPE ARE EXPECTED BY THE ENGINEER TO BE THE MOST LIKELY TO CAUSE CONTAMINATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE INSPECTIONS BY A CERTIFIED RSI, OR EQUIVALENT, INSPECTOR WHILE WORK IS OCCURRING ON THIS PROJECT.
7. ALL INSPECTIONS AND LOGS SHALL BE RECORDED ON A UTAH DWQ APPROVED INSPECTION FORM.
8. INSPECTIONS SHALL BE CONTINUED UNTIL SITE OBTAINS PERMANENT STABILIZATION WHICH SHALL BE DEFINED AS 70 PERCENT OF VEGETATIVE RESTORATION OR NON-EROSIVE CONDITIONS ESTABLISHED OVER 100 PERCENT OF THE SITE.
9. FINAL PAYMENT SHALL NOT BE PROCESSED UNTIL STABILIZATION IS APPROVED BY ENGINEER.

POTENTIAL SOURCES OF POLLUTION

POTENTIAL POLLUTANT MATERIAL	ACTUAL POLLUTANT	POLLUTANT SOURCE	MANAGEMENT PRACTICE
SEDIMENT/TOTAL SUSPENDED SOLIDS	SEDIMENT	EROSION OF DISTURBED SOILS	PAUSE DISTURBANCES UNTIL WATER CLEARS. INSTALL BMPS ALONG THE BANKS.
SOILS STABILIZATION MATERIAL	VARIOUS MATERIALS BOTH FLOATABLE AND SOLUBLE	DISTURBED AREAS WHERE SLOPES OR SUSCEPTIBLE SOIL TYPES ARE EXPOSED	INSTALL SEDIMENT CONTROL BMPS
CONCRETE-WHITE/GREY	LIMESTONE, SAND, pH, CHROMIUM	EXTRA CONCRETE WHEN POURING CONCRETE	CLEAN UP EXCESS AND EXTRA CONCRETE AND DISPOSE OF AT SPECIFIED LOCATION. SEE ALSO CONCRETE WASHOUT
OILS-BROWN OILY PETROLEUM AND HYDROCARBONS	MINERAL OIL, HYDRAULIC FLUID, MOTOR OIL, ETC.	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	NO OILS WILL BE CHANGED ON SITE. LEAKS WILL BE REPAIRED IMMEDIATELY.
ASPHALT AND PAVING-BLACK SOLIDS	OIL AND PETROLEUM DISTILLATES	ASPHALT PAVING OPERATIONS	PAVING OPERATIONS WILL NOT BE PERFORMED WITHIN 8 HOURS OF EXPECTED STORMS EXCEEDING 0.5 INCH.
GREASE	GREASE AND LUBE OIL	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	KEEP EQUIPMENT CLEAN AND WIPED DOWN
ANTIFREEZE	ETHYLENE GLYCOL	ENGINE COLLUANT	FIX LEAKS IMMEDIATELY. REPAIRS WILL NOT BE MADE ON SITE
CONSTRUCTION DEWATERING	TSS/SEDIMENTS	DEWATERING ACTIVITIES	CONTRACTOR TO OBTAIN PERMIT IF DEWATERING IS REQUIRED.
FUELS	BENZENE, ETHYL BENZENE, TOULENE, XYLENE, MTBE, PETROLEUM DISTALLATE, OILS/GREASES, NAPHTHALEN, COAL OIL	USED IN VEHICLES AND POWER EQUIPMENT	FUELING WILL NOT BE ALLOWED ON SITE UNLESS OVER AN IMPERMEABLE SURFACE WITH AN EMERGENCY CLEANUP KIT AT THE LOCATION
PESTICIDES AND INSECTICIDES, FUNGICIDES, HERBICIDES, AND RODENTICIDES	CHLORINATED HYDROCARBONS, ORANOPHOSPHATES, CARBAMATES, ARSENIC	USED FOR CONTROL OF PESTS DURING REVEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER PESTICIDES WILL BE IMMEDIATELY REMOVED FROM SITE
CONCRETE CURING COMPOUNDS - CREAMY WHITE LIQUID	WHITE PIGMENTED LIQUID TYPE 2 (VARIES BY MANUFACTURER)	USED FOR CONTROL OF CONCRETE CURING	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER WILL BE REMOVED FROM SITE
CONCRETE WASHOUT WATER	pH	CONCRETE TRUCKS AND PUMP TRUCKS	WASH WATER FROM CONCRETE TRUCKS WILL BE CONTAINED IN A LEAK PROOF LOCATION DESIGNATED BY THE CONTRACTOR
TRASH	SOLID WASTES	TRASH LEFT OVER FROM CONSTRUCTION ACTIVITIES	REMOVE ALL TRASH FROM SITE DAILY. DO NOT DISPOSE OF TRASH IN HOLES OR TRENCHES
SANITARY WASTE MANAGEMENT	BACTERIA, PARASITES, VIRUSES	FECAL COLIFORM, BACTERIA ASSOCIATED WITH HUMAN OR ANIMAL WASTES	NO PUBLIC RESTROOMS AVAILABLE. CONTRACTOR SHALL PROVIDE PORTABLE FACILITIES AND ENSURE THEY ARE SECURED FROM TIPPING AND ARE MAINTAINED
FERTILIZERS - LIQUID AND SOLID GRAIN	NITROGEN, PHOSPHORUS	FERILIZERS USED IN RESTORING VEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS WILL BE PROMPTLY REMOVED FROM SITE

BEST MANAGEMENT PRACTICES

SPECIFIC BMPS WILL BE SPECIFIED IN THE DE-WATERING PLAN



FRANSON
 CIVIL ENGINEERS



1276 South 820 East, Suite 100
 American Fork, UT 84003
 T 801 756-0309 F 801 756-0481

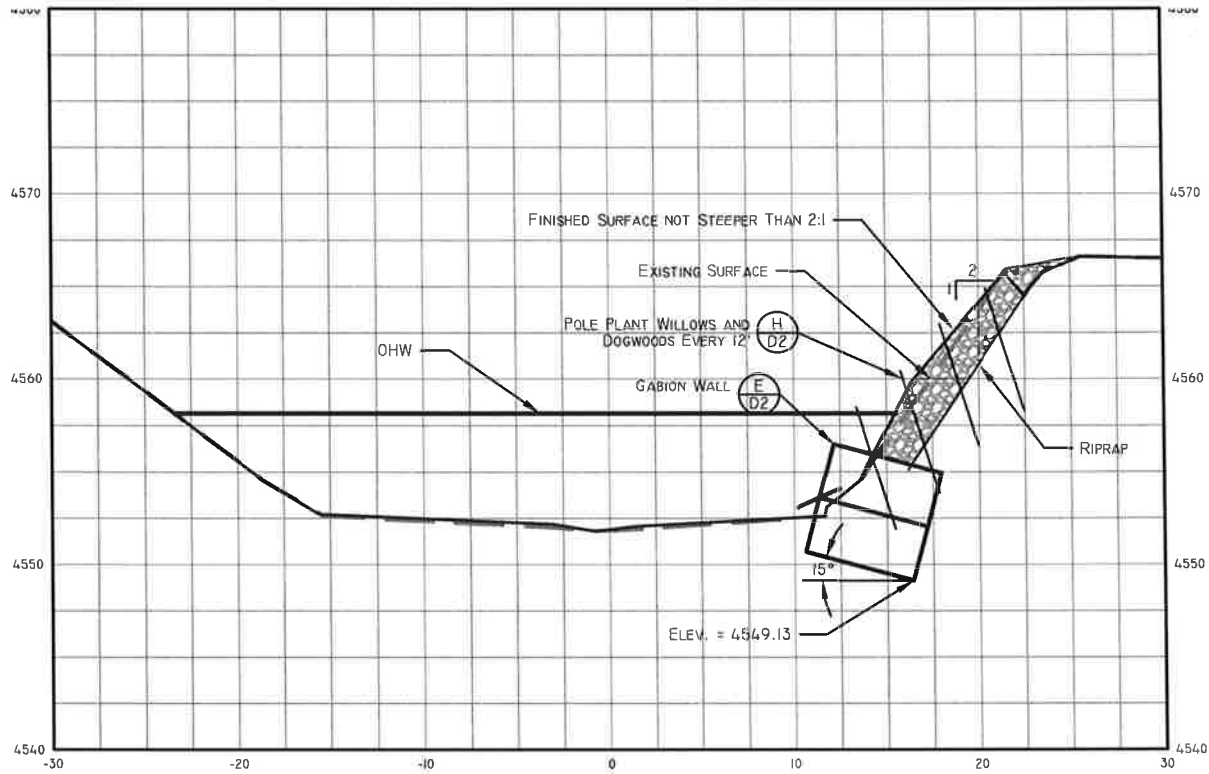


NO.	DATE	INTS	REVISIONS	DESCRIPTION

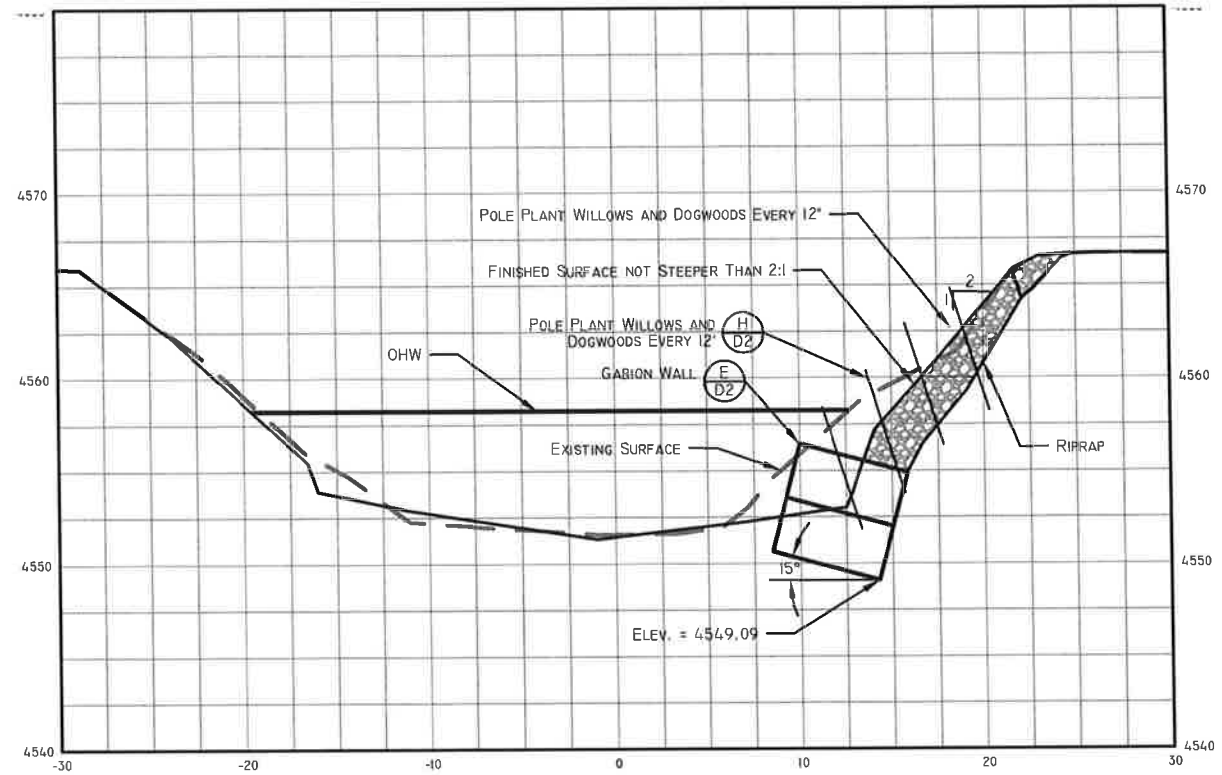
LOGAN CITY
CENTER STREET BRIDGE FOUNDATION STABILIZATION
STORM WATER NOTES

General.dwg
 P:\UT\Northern\Logan City Special Services\Logan City Center Street
 Bridge\Drawings\Design Drawings
 LAYOUT: SD Notes

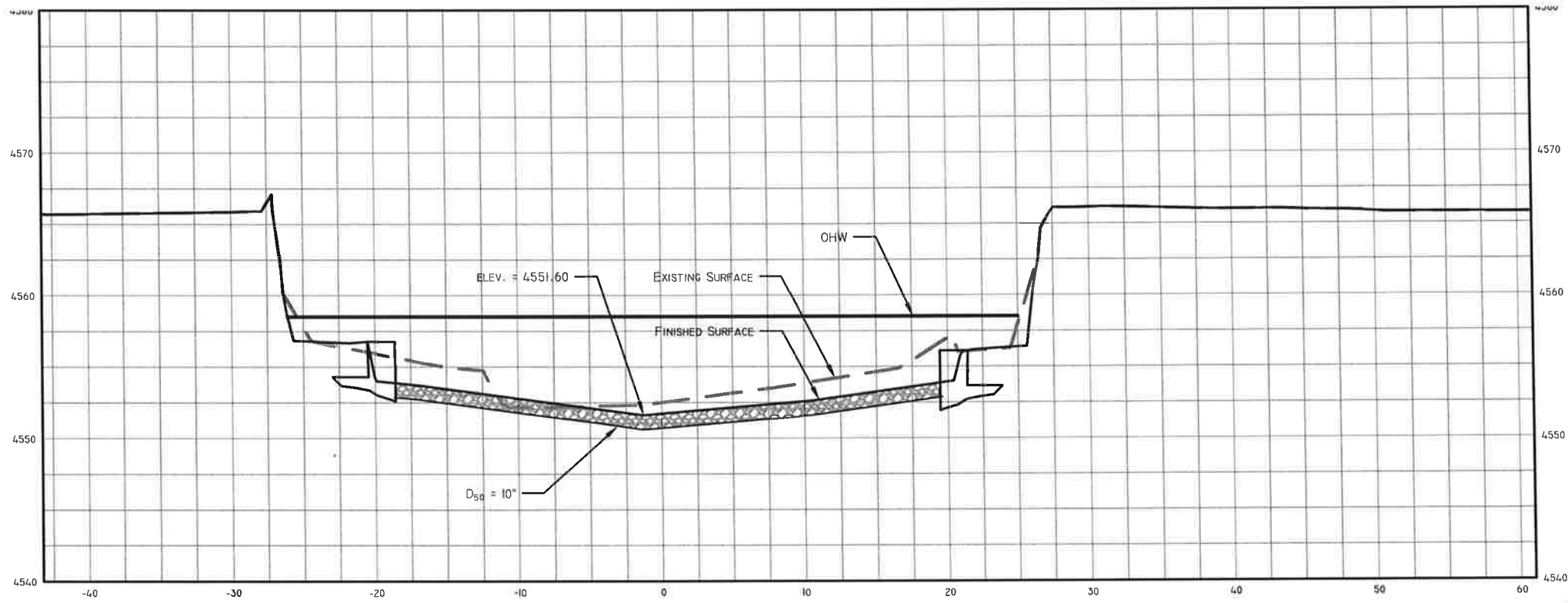
JOB NO.
 NU 0064



B SECTION I
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 SCALE



C SECTION 2
 0 2.5' 5' 10'
 SCALE



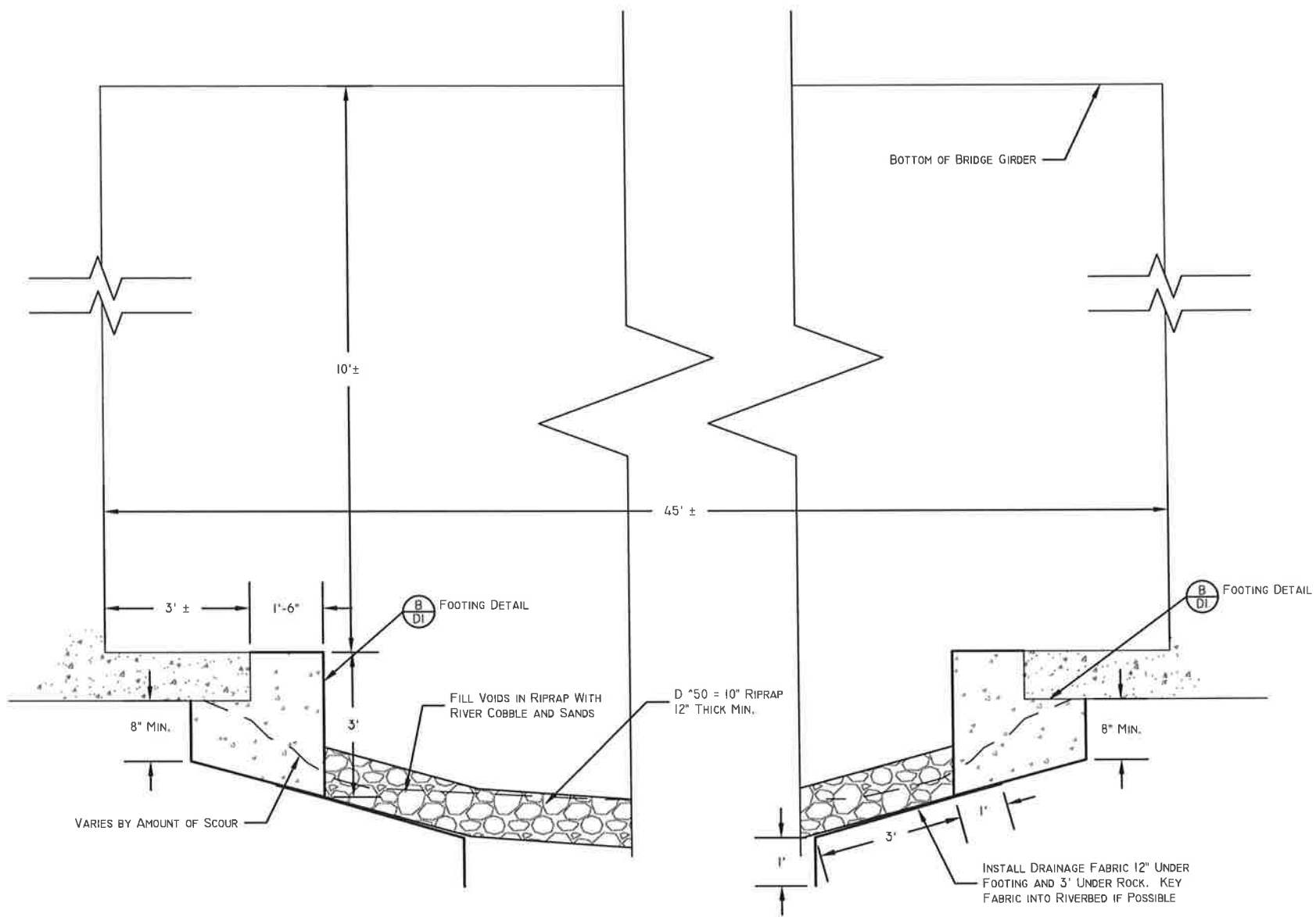
D SECTION 3
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 SCALE

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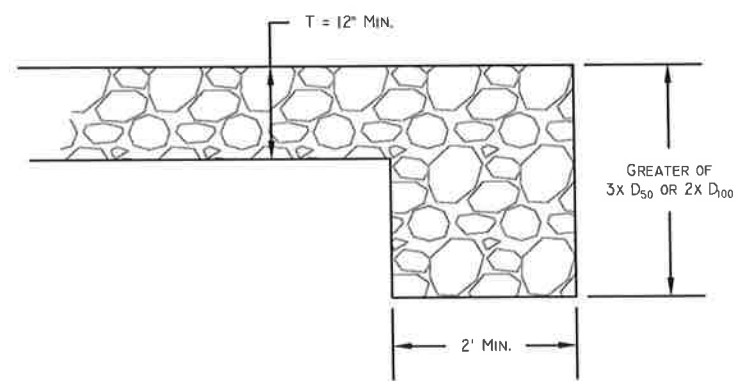


DESIGNER	CHECKED	PROJECT LEADER	PRINT DATE	DESCRIPTION
LANE HOUSER		LANE HOUSER	JUNE 3, 2019	
DRAFTSMAN				
MATT GURR				
NO.	DATE	INTS.		

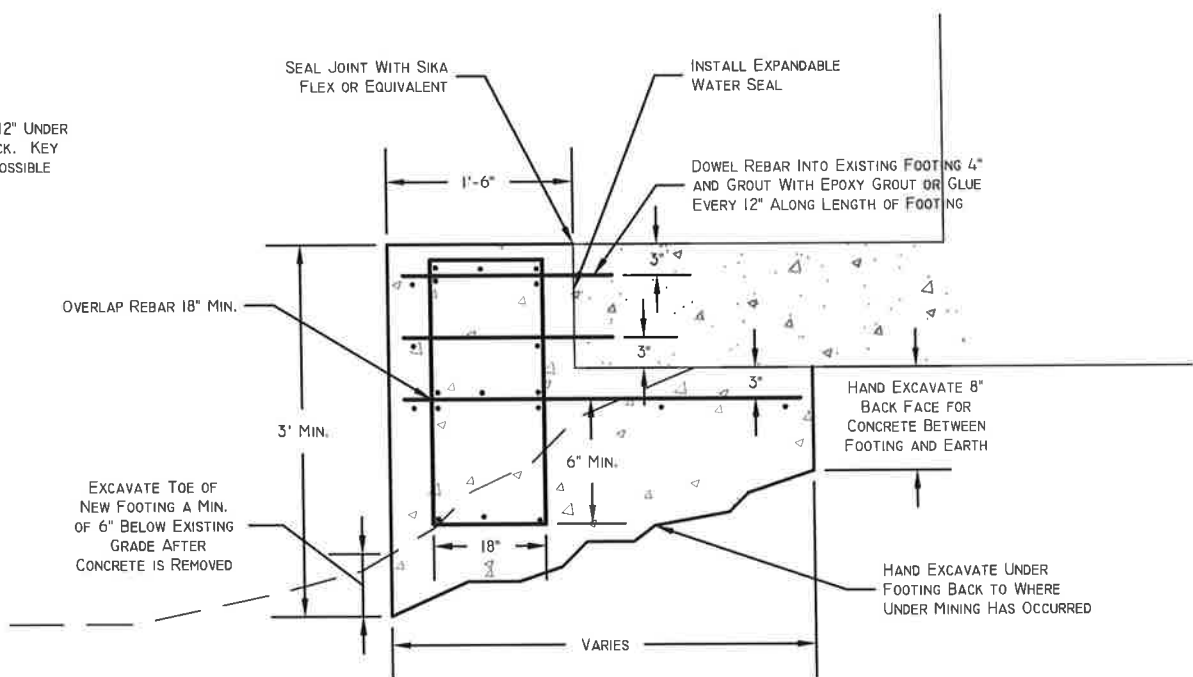
LOGAN CITY
CENTER STREET BRIDGE FOUNDATION STABILIZATION
 SECTIONS I
 Plan and Profiles.dwg
 P:\UT\Northern\Logan City Special Services\Logan City Center Street
 Bridge\Drawing\Design Drawings
 LAYOUT - Sections
 JOB NO.
 NU 0064



A CHANNEL SECTION
NOT TO SCALE



C RIPRAP KEYED INTO TOE OR BED
NOT TO SCALE



B FOOTING DETAIL
NOT TO SCALE

NOTE: ALL REBAR SHALL BE #5 BARS ON 12" CENTERS UNLESS CALLED OUT OTHERWISE.

Issued For Bidding
Plot Date: 6/3/2019



DESIGNER	DRAFTSMAN	DATE	INTS.	DESCRIPTION
LANCE HOUSER <td>HATT GURR <td></td> <td></td> <td></td> </td>	HATT GURR <td></td> <td></td> <td></td>			
CHECKED	REVIEWED	REVISIONS		
PROJECT LEADER	PRINT DATE			
LANCE HOUSER	JUNE 3, 2019			

LOGAN CITY
CENTER STREET BRIDGE FOUNDATION STABILIZATION
DETAILS
Details.dwg
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LAYOUT: DI
JOB NO. NU.0064
SHEET

