

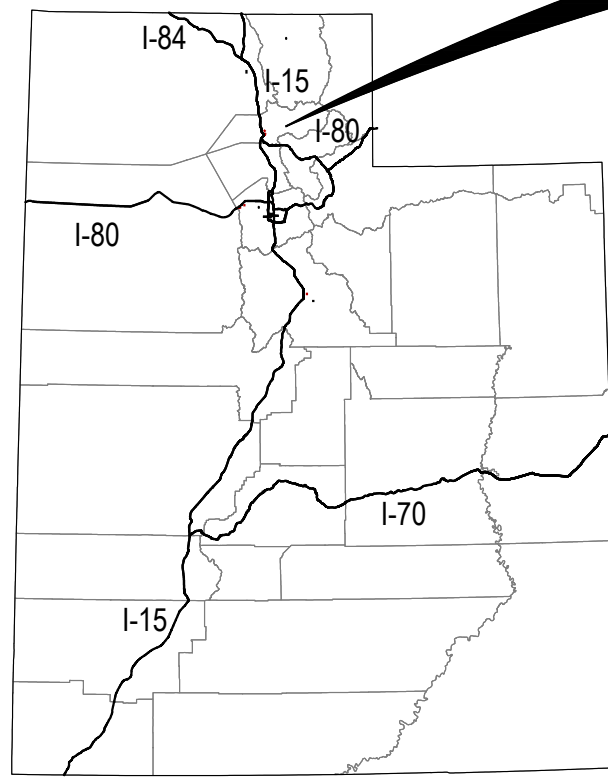
OGDEN CITY WHEELER CREEK DIVERSION CONSTRUCTION PLANS

OGDEN CANYON, SR39 & PINEVIEW RESERVOIR

ISSUE DATE: AUGUST 2, 2018

STATE OF UTAH

PROJECT LOCATION



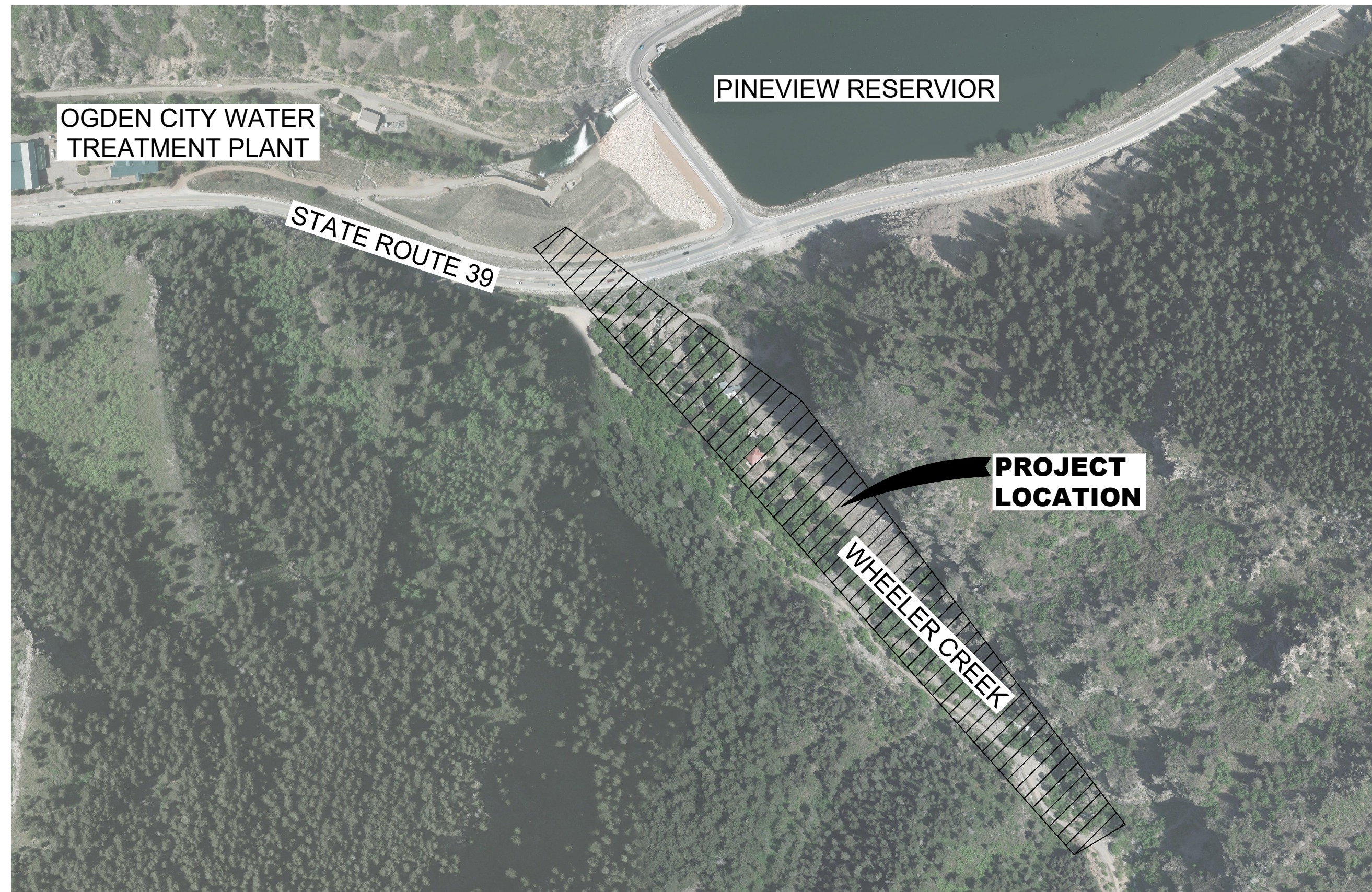
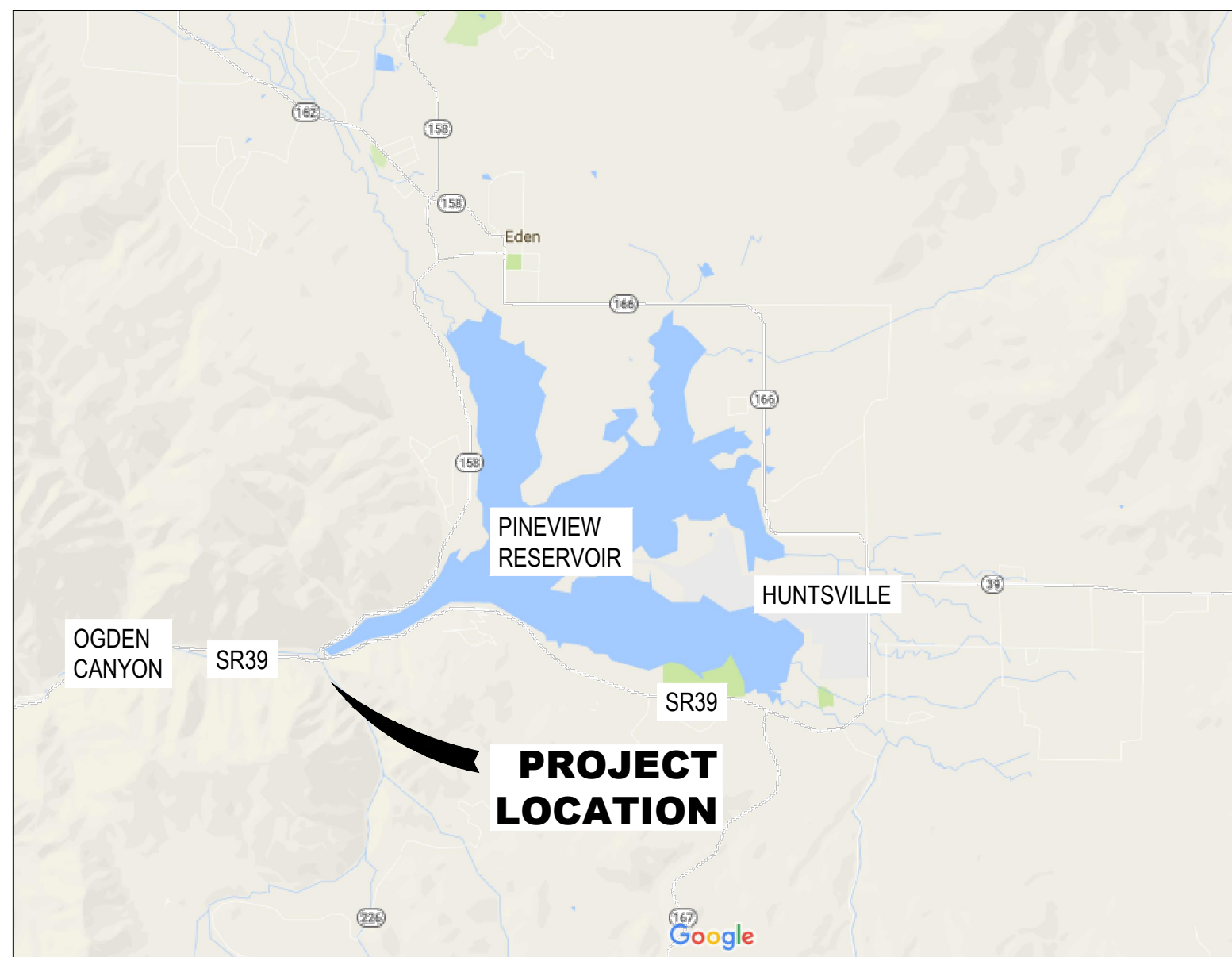
LEGEND

- MAJOR HIGHWAY
- COUNTY LINE



NOT TO SCALE

VICINITY MAP



WHEELER CREEK
DIVERSION
PROJECT VICINITY MAP

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File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Sheets\G101-G102 TITLE SHEET & NOTES.dwg Apr 01, 2019 - 2:45pm

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CHECKED BY: C. ALLEN, PE
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DRAWING SCALE: AS SHOWN
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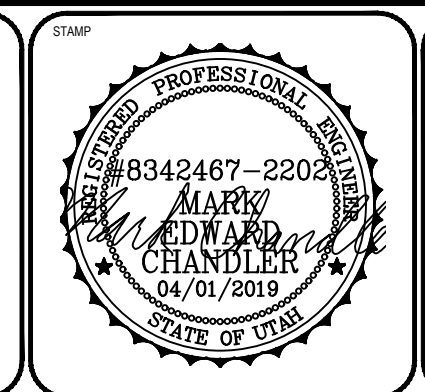
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OGDEN CITY
WHEELER CREEK DIVERSION
TITLE SHEET

SR39 & PINEVIEW RESERVOIR

OGDEN CANYON



PROJECT NUMBER	16111C
SHEET	1 OF 21
SHEET NUMBER	G101

THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATIONS. THE CONTRACTOR SHALL BE SATISFIED AS TO THEIR TRUE MEANING AND INTENT AND SHALL BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

- 1) ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH ALL JURISDICTIONAL AUTHORITIES.
2) CONTRACTOR SHALL COMPLY WITH THE STANDARDS INDICATED ABOVE AND WITHIN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES, OWNERS, ENGINEERS, AND UTILITY COMPANIES 5 DAYS PRIOR TO A PRE-CONSTRUCTION MEETING:
3) IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
4) WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
5) THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR, IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE.
6) THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE, AND HAVE SPECIAL SKILLS ON THE NATURE, EXTENT, AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN CONSTRUCTION OF PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR PECULIAR SAFETY CONDITIONS, WHICH CONDITIONS COULD BE HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
8) CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHTS-OF-WAY OR EASEMENTS FROM OGDEN, UT, US ARM CORP OF ENGINEERS AND UDOT. CONTRACTOR SHALL NOTIFY CITY, COUNTY, AND/OR STATE, 24 HOURS IN ADVANCE OF COMMENCING THE WORK, OR AS REQUIRED BY SAID PERMITS.
9) THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS.
10) CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF, AND AT, THE SITE OF WORK. IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING

- THEIR BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE RELIED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING THEIR BID.
11) THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
12) THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.
13) THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND/OR ENGINEER.
14) THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, SECTION CORNERS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY UNNECESSARY LOSS OR DISTURBANCE.
15) THE CONTRACTOR AGREES THAT:
A) THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH DAY.
B) THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
C) THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
D) THEY SHALL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
E) THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND RE-INSPECTIONS AT THEIR OWN EXPENSE.
16) THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE AND GROSS NEGLIGENCE OF THE OWNER OR THE ENGINEER.
17) DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OGDEN CITY.
18) WHEN CONSTRUCTION STAKING IS REQUIRED THE CONTRACTOR SHALL NOTIFY THE ENGINEER/LAND SURVEYOR 1 WEEK IN ADVANCE OF THE NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND STANDARD STAKING NEEDS, INCLUDING RE-STAKING WILL BE SUBJECT TO A CONTRACTOR CHANGE ORDER AND THE IMPACT COSTS OF WORK PERFORMED
19) FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAYS OR EASEMENTS, THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES, THE NEED FOR ANY TRAFFIC ROUTING PLAN. IF PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE PROPER APPROVALS PRIOR TO BEGINNING CONSTRUCTION.
20) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
21) IF EXISTING FEATURES NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FEATURES FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING FEATURES SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT.

- 22) THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL FACILITIES. AS-BUILT DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
23) WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHTS-OF-WAY.
24) NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED. VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING, AND ANSWER ANY QUESTIONS BEFORE CONSTRUCTION.
25) FURNISH, MAINTAIN, AND RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE. CONTACT THE CITY OR COUNTY SURVEYOR FOR MONUMENT LOCATIONS AND CONSTRUCTION DETAILS.
26) PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH CITY, COUNTY, AND STATE REGULATIONS FOR WORKING IN THE PUBLIC WAY.
27) FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
28) TRAFFIC CONTROL IS TO CONFORM TO THE CURRENT MUTCD AND UDOT STANDARDS.
29) CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
30) ALL EXISTING ASPHALT WILL BE SAW CUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION.
31) STRIPING WILL BE PER THE PLANS AND/OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. STRIPING TO INCLUDE HANDICAP INSIGNIAS, SIGNS, CROSS-HATCHING, DIRECTION ARROWS, ETC. AS SHOWN OR AS DIRECTED.

GENERAL CLEARING AND GRADING NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO OWNER FOR APPROVAL PRIOR TO BEGINNING ANY CLEARING AND GRUBBING ACTIVITIES.
2. CONTRACTOR IS TO AVOID ANY DISCHARGE OF SEDIMENT OR OTHER CONSTRUCTION MATERIALS INTO ANY PORTION OF THE CREEK CHANNEL.
3. CLEARING, GRUBBING AND DISPOSAL OF VEGETATIVE MATERIAL NEEDS TO BE IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS, WHICH APPLY TO SOLID WASTE.
4. CONTRACTOR SHALL PERFORM EARTHWORK IN ACCORDANCE WITH OGDEN CITY STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS, EROSION, SEDIMENT, RE-VEGETATION REQUIREMENTS, AND THE SWPP PLAN AS REQUIRED BY THE STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY AND DIVISION OF AIR QUALITY.
5. THE CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS OUTLINED IN THE CONSTRUCTION STANDARDS
6. EROSION CONTROL AND SEDIMENT CONTROL PLANS (STORM WATER POLLUTION PREVENTION PLAN) TO BE INSTALLED WITHIN THE SAME WORKING DAY THE LAND DISTURBANCE OCCURS.
7. DUST CONTROL BMP'S ARE TO BE ON SITE AND IMPLEMENTED AS SOON AS LAND DISTURBANCE OCCURS.
8. THE EXISTING TOPOGRAPHY SHOWN ON THESE PLANS IS BASED ON DRAWINGS AND A TOPOGRAPHIC SURVEY PERFORMED BY CRS ENGINEERS. IF THE EXISTING GRADE IS DIFFERENT FROM WHAT IS SHOWN ON THE GRADING PLAN, STOP WORK AND CONTACT CRS ENGINEERS. WORK IS TO REMAIN STOPPED UNTIL THE ENGINEER PROVIDES A WRITTEN NOTICE TO RESUME WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STREETS, STORM DRAINS, CHANNELS, DITCHES, AND SWALES FREE FROM DEBRIS, SOIL, MUD, OR OTHER MATERIAL THAT WOULD CAUSE A PUBLIC SAFETY CONCERN OR VIOLATE ANY CITY, STATE, OR FEDERAL LAWS.
10. BMP'S ARE TO BE IN PLACE AND MAINTAINED UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM OGDEN CITY.
11. NO DISTURBANCE WILL BE ALLOWED IN THE AREA SOUTH WEST OF THE EXISTING PATH. DUE TO THE EXISTENCE OF ENVIRONMENTALLY SENSITIVE VEGETATION. SEE ENVIRONMENT ASSESSMENT BY CRS DATED...
12. IF DISTURBANCE OCCURS OUTSIDE THE LIMITS OF DISTURBANCE, WORK WILL STOP AND REMAIN STOPPED UNTIL A WRITTEN RESPONSE IS RECEIVED FROM THE ENGINEER.
13. THE CONTRACTOR SHALL REMOVE ALL VEGETATION AND DELETERIOUS

- 14. MATERIALS FROM THE SITE UNLESS NOTED OTHERWISE.
NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER.

GENERAL UTILITY NOTES

- 1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY CONTRACTORS WORK FORCE.
2. START AT THE LOW END OF ALL GRAVITY FED LINES AND WORK UPHILL. FAILURE TO COMPLY WITH THIS NOTE SHALL RELEASE THE CIVIL ENGINEER OF ALL LIABILITY.
3. CONTRACTOR SHALL LAYOUT AND POTHOLE FOR ALL POTENTIAL CONFLICTS WITH UTILITY LINES ON OR OFF SITE AS REQUIRED PRIOR TO ANY CONSTRUCTION.
4. STORM DRAIN - SEE OGDEN CITY STANDARDS & SPECIFICATIONS FOR ALL DETAILS & SPECIFICATIONS GOVERNING THE CONSTRUCTION & INSPECTION OF THE STORM DRAIN & APPURTENANCES WITHIN THE PUBLIC RIGHT-OF-WAY AS SHOWN ON THIS PLAN. SEE THE DETAILS PROVIDED ON THIS SET OF DRAWINGS FOR ALL OTHER STORM DRAIN CONSTRUCTION. APWA STANDARDS WILL BE USED IN THE ABSENCE OF ANY STANDARDS AND DETAILS.
5. ALL DIMENSIONS AND GRADES OF EXISTING STORM DRAIN PIPES, BOX CULVERTS, STRUCTURES, ETC. SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
6. THESE PLANS SHOW THE LOCATION OF POWER, NATURAL GAS, AND COMMUNICATIONS UTILITIES, BUT ARE NOT DESIGN DRAWINGS FOR THE RELOCATION OR REMOVAL OF EXISTING DRY UTILITIES, NOR FOR ANY NEW DRY UTILITY STUBS. CONTRACTOR IS TO SUBMIT SITE PLAN TO DRY UTILITIES FOR DESIGN OF SERVICE CONNECTIONS TO BUILDING. ACTUAL CONSTRUCTION OF SAID SERVICES TO BE DONE BY RESPECTIVE UTILITY PROVIDERS.
7. VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POT HOLING A MINIMUM OF 300 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POTHOLE UTILITIES THE CONTRACTOR WILL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.
8. ALL DIMENSIONS, GRADES, AND UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
10. ALL EXISTING MANHOLES, WATER VALVES, CLEAN OUTS, ETC., ARE TO BE RAISED OR LOWERED TO GRADE.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like APPROX, ASTM, ANSI, APWA, AWWA, BOW, BF, BLDG, C TO C, CB, CI, CL, CLR, CMP, CO, CONC, DI, DIM, E, EA, EG, EL, ELEV, EP, EW, EX, FG, FL, FLG, FT, HOPE, HORIZ, HP, ID, IE, INV, IR, IRR, LT, L, LBS, L.F., LIN, LP, MAX, MEG, MIN, MJ, N, N/A, NIC, NO, NTS, OC, OD, OSHA, PE, PG, PI, PJDI, PSF, PSI, PUE, PVC, RCP, R, RT, RJ, S, SEC, SS, STA, T, TB, TBA, TBC, TOC, TOW, TYP, UDOT, VERT, W, W, W/W, WWF, LINEAR, LOW POINT, MAXIMUM, MATCH EXISTING GRADE, MINIMUM, MECHANICAL JOINT, NORTH, NOT APPLICABLE, NOT IN CONTACT, NUMBER, NOT TO SCALE, ON CENTER, OUTSIDE DIAMETER, OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, PLAIN END, PAGE, POINT OF INTERSECTION, PUSH-ON JOINT, DUCTILE IRON, POUNDS PER FOOT, POUNDS PER SQUARE INCH, PUBLIC UTILITY, EASEMENT, POLYVINYL CHLORIDE, REINFORCED CONCRETE PIPE, RADIUS, RIGHT, RESTRAINED JOINT, SOUTH, SECTION, SANITARY SEWER, STATION, TOP, THRUST BLOCK, TO BE ABANDONED, TOP BACK CURB, TOP OF CONCRETE, TOP OF WALL, TYPICAL, UTAH DEPARTMENT OF TRANSPORTATION, VERTICAL, WATER, WEST, WITH, WELDED WIRE FABRIC.

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RECORD OF REVISIONS table with columns for revision number, description, and date.

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DRAWN BY: D. ZOLLINGER
DRAWING SCALE: AS SHOWN
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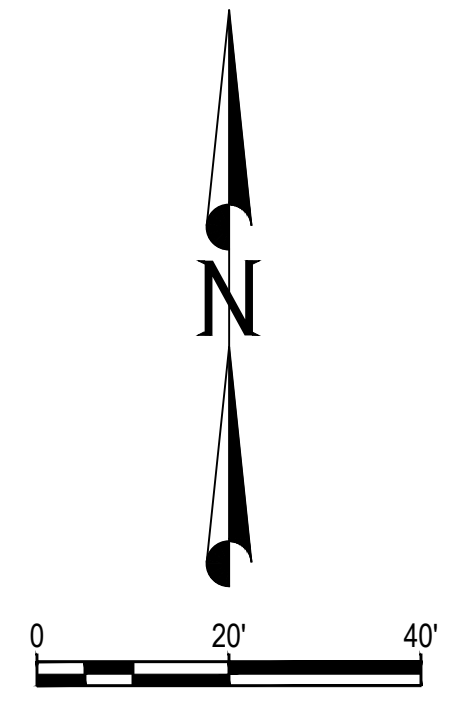
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OGDEN CITY WHEELER CREEK DIVERSION NOTES, LEGEND, AND ABBREVIATIONS. SR39 & PINEVIEW RESERVOIR OGDEN CANYON



Project information table: PROJECT NUMBER 16111C, SHEET 2 OF 21, SHEET NUMBER G102

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GENERAL NOTES

1. THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO LOCATE ALL EXISTING UTILITY LINES FROM RECORDS PROVIDED BY OTHERS AND EVIDENCE IN THE FIELD. CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO COMMENCING WORK.

**APPROVED
FOR CONSTRUCTION**

NO.	DATE	REVISIONS

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DRAWN BY
D. ZOLLINGER

DRAWING SCALE
AS SHOWN

ISSUE DATE
AUGUST 2, 2018

CRS ENGINEERS
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OGDEN CITY
WHEELER CREEK DIVERSION
EXISTING CONDITIONS & DEMOLITION

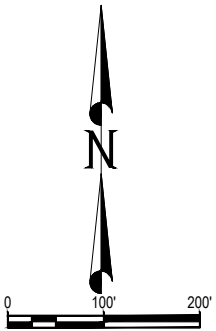
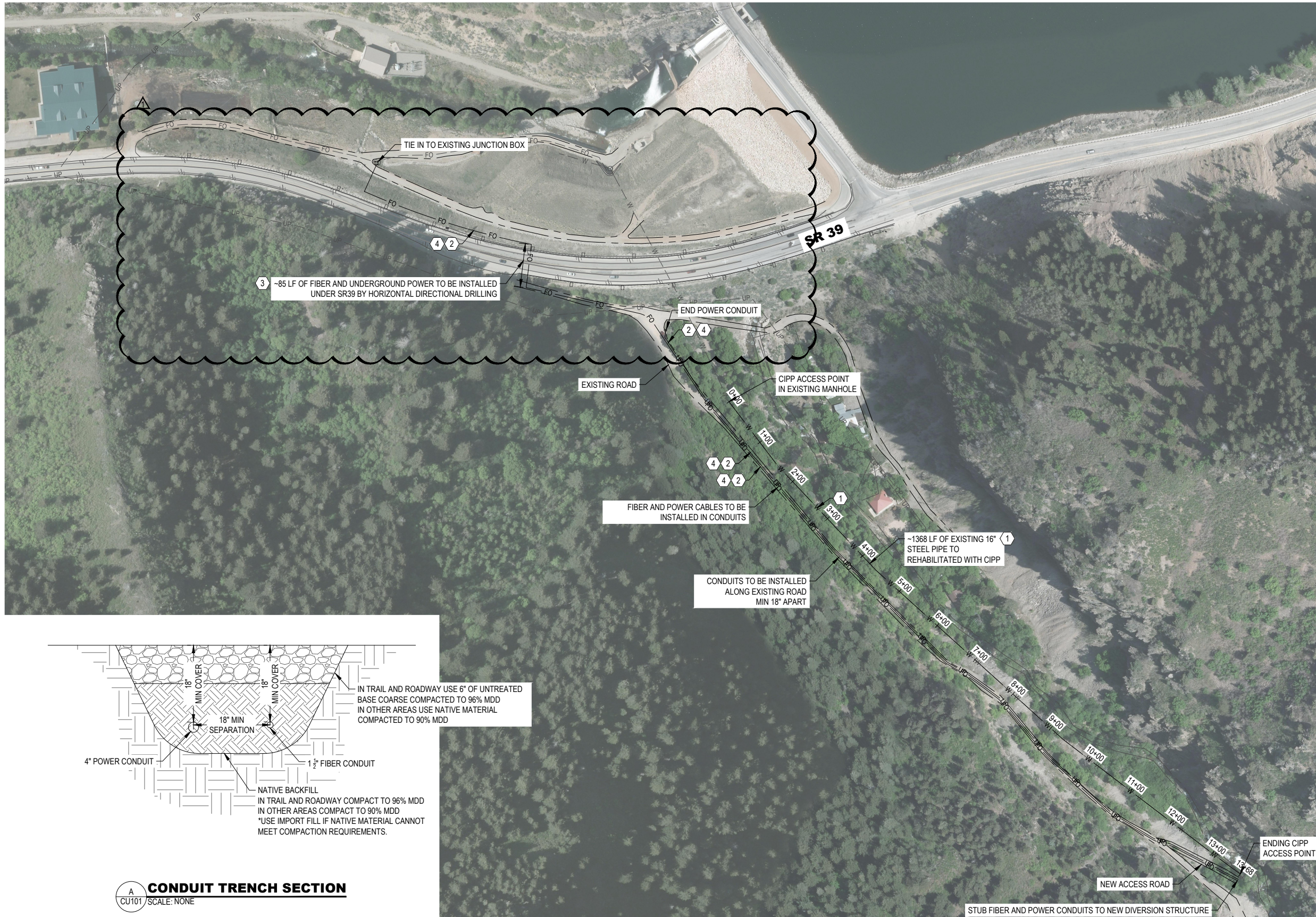
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SHEET NUMBER CS101	

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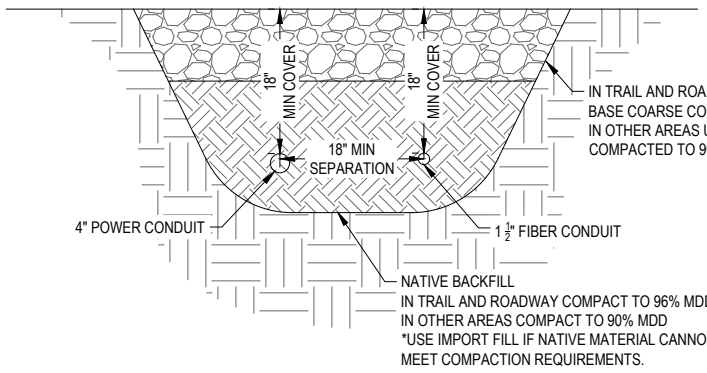
KEYNOTES

- ① EX STEEL WATERLINE TO BE REHABILITATED WITH CIPP
- ② NEW 1 1/2" UNDERGROUND CONDUIT FOR FIBER OPTIC CABLE AND NEW 4" UNDERGROUND CONDUIT FOR POWER CABLE. INSTALL PULL BOXES AT ALL BENDS GREATER THAN 45° AND AS NEEDED ON STRAIGHT SECTIONS
- ③ UTILITY INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING
- ④ FIBER AND UNDERGROUND POWER TRENCH SECTION - PER DETAIL A:CU101

GENERAL NOTES

- 1. THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO LOCATE ALL EXISTING UTILITY LINES FROM RECORDS PROVIDED BY OTHERS AND EVIDENCE IN THE FIELD. CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO COMMENCING WORK.

**APPROVED
FOR CONSTRUCTION**



A
CU101
CONDUIT TRENCH SECTION
SCALE: NONE

NO.	DATE	DESCRIPTION
1	2019.4.18	FIBER AND POWER TIE IN CHANGED

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PRINCIPAL: D. ANDERSON, PE
 PROJECT MANAGER: M. CHANDLER, PE
 CHECKED BY: C. ALLEN, PE
 DRAWN BY: D. ZOLLINGER
 DRAWING SCALE: AS SHOWN
 ISSUE DATE: AUGUST 2, 2018

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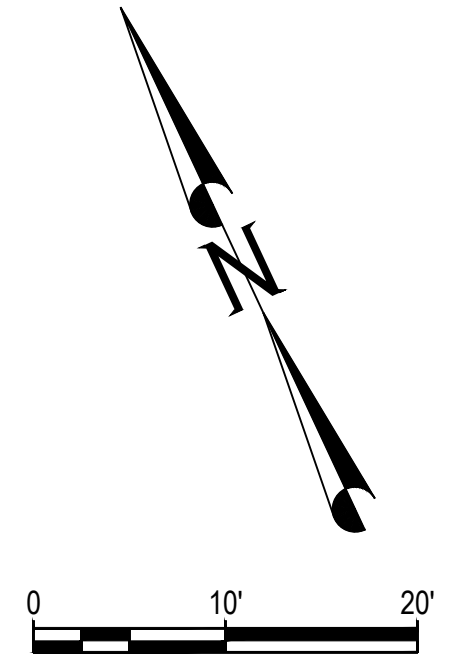
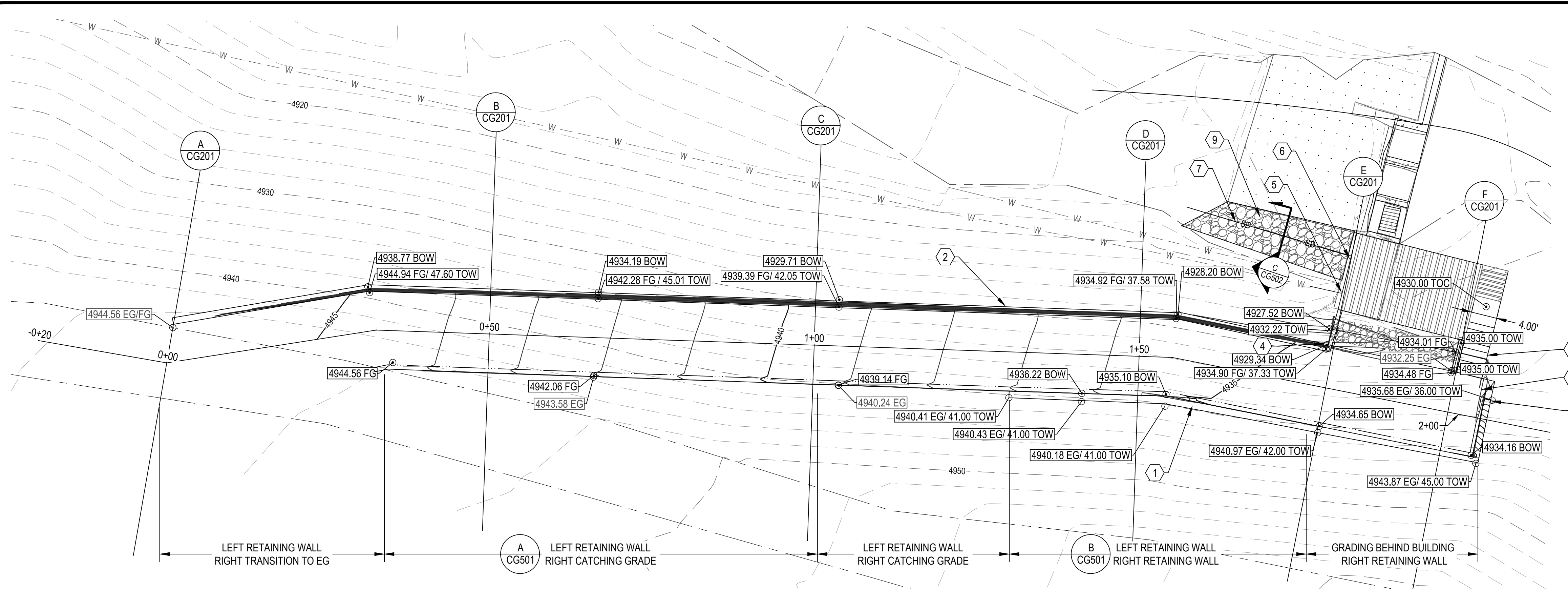
OGDEN CITY
 WHEELER CREEK DIVERSION
 UTILITY DESIGN

SR39 & PINEVIEW RESERVOIR

OGDEN CANYON

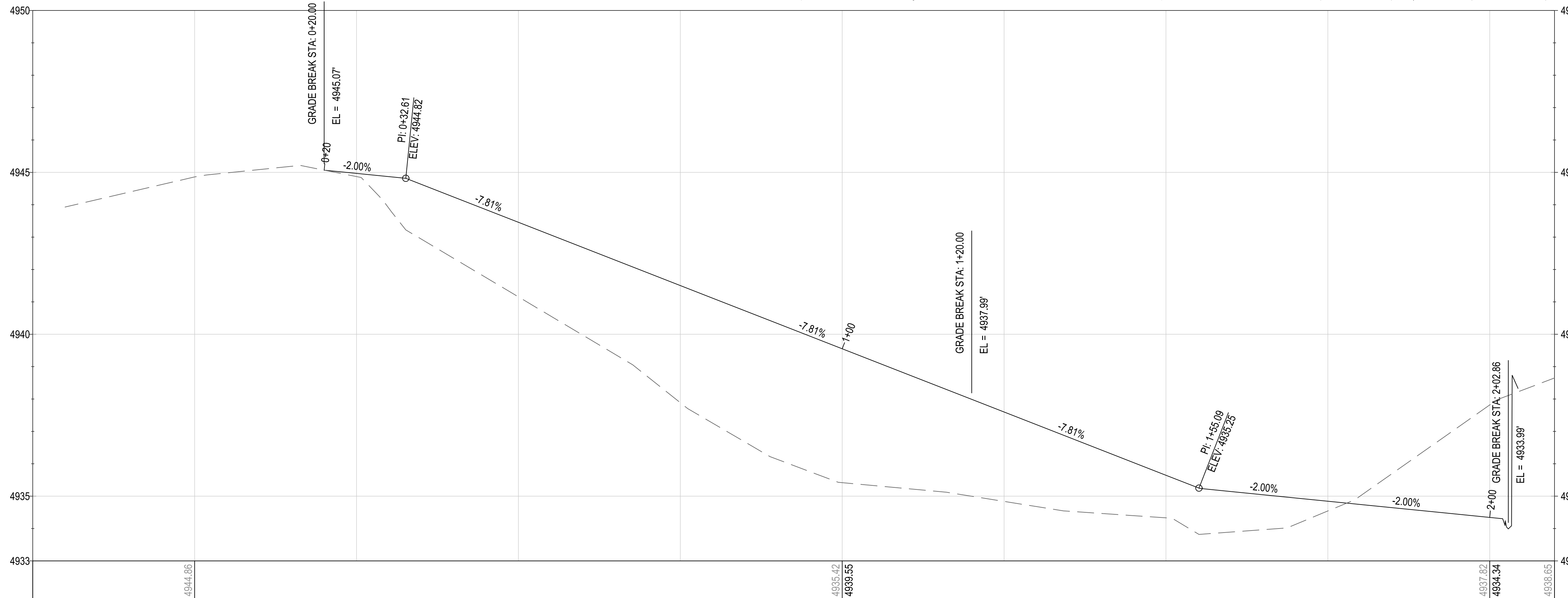
PROJECT NUMBER	16111C	
SHEET	4	OF 21
SHEET NUMBER	CU101	

File Path: P:\16111C Ogden City Wheeler Creek Diversion\Drawings\Sheets\Grading\PLAN.dwg Apr 01, 2019 - 2:48pm



GRADING KEYNOTES

- 1 12" THICK CONCRETE RETAINING WALL SEE DETAILS A&B SHEET CG502
- 2 8" THICK CONCRETE RETAINING WALL SEE DETAIL B SHEET CG501
- 3 4' WIDE CONCRETE STAIRS
- 4 END RETAINING WALL
- 5 INSTALL 5' LONG X 16" Ø PE X FL DUCTILE IRON SPOOL CONNECT TO EXISTING 16" STEEL PIPE W/ 16" ALPHA COUPLER
- 6 INSTALL 5' LONG X 16" Ø PE X FL DUCTILE IRON SPOOL CONNECT TO 16" PRESSURE CLASS 250 DUCTILE IRON DRAIN PIPE W/ 16" ALPHA COUPLER
- 7 INSTALL 25' OF 16" PRESSURE CLASS 250 DUCTILE IRON DRAIN PIPE SEE DETAIL C SHEET CG502
- 8 1' WIDE DRAINAGE CHANNEL, SLOPE @ 2% TO NE CORNER OF ACCESS ROAD
- 9 24" THICK D50 12" COBBLE RIP RAP OVER DRAIN PIPE, KEY INTO EXISTING CHANNEL BED WITH 18" WIDE X 18" DEEP TRENCH SEE DETAIL C SHEET CG502



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NO.	DATE	DESCRIPTION

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 PROJECT MANAGER: M. CHANDLER, PE
 CHECKED BY: C. ALLEN, PE
 DRAWN BY: D. ZOLLINGER
 DRAWING SCALE: AS SHOWN
 ISSUE DATE: AUGUST 2, 2018

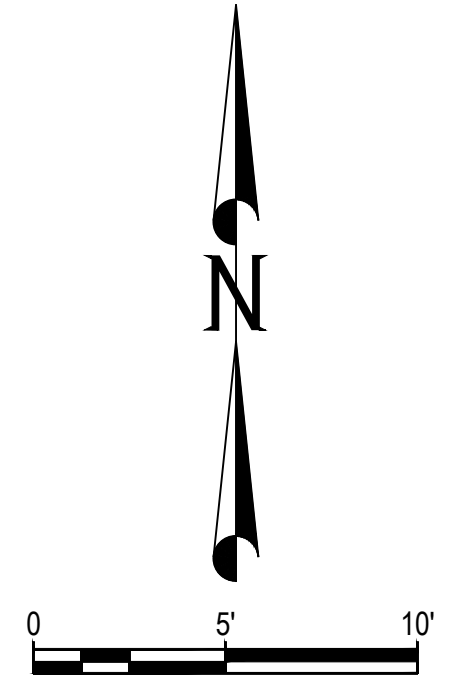
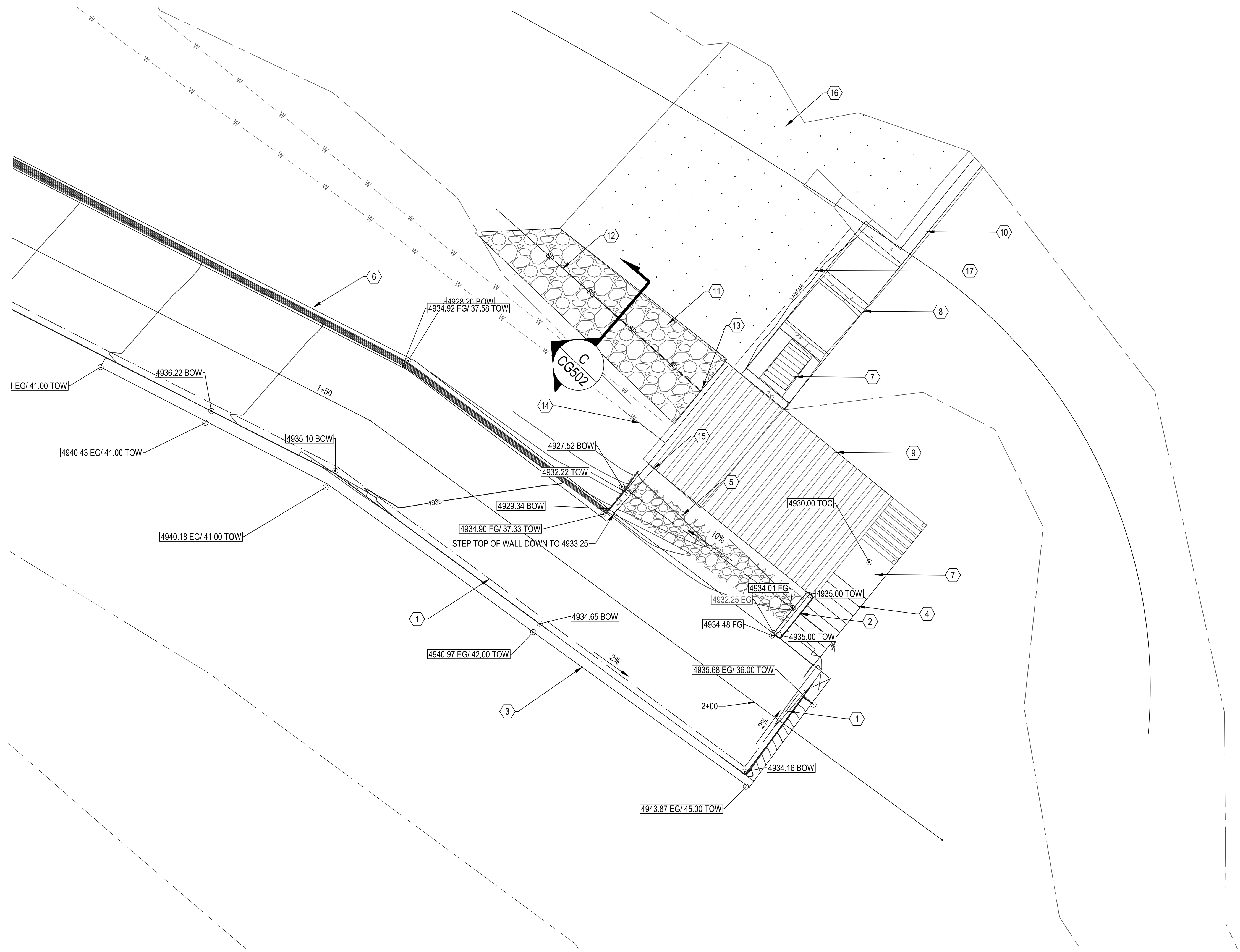
OGDEN CITY
 WHEELER CREEK DIVERSION
 ACCESS ROAD GRADING

SR39 & PINEVIEW RESERVOIR

OGDEN CANYON

PROJECT NUMBER 16111C	
SHEET 5	OF 21
SHEET NUMBER CG101	

File Path: P:\16111C Ogdem City-Wheeler Creek Diversion\Drawings\Sheets\GRADING PLAN.dwg Apr 01, 2019 - 2:49pm



GRADING KEYNOTES

- ① 1' WIDE DRAINAGE CHANNEL, SLOPE @ 2% TO NE CORNER OF ACCESS ROAD
- ② 6" THICK CONCRETE RETAINING WALL SEE DETAIL F SHEET CG503
- ③ 12" THICK CONCRETE RETAINING WALL SEE DETAIL B SHEET CG502
- ④ CONCRETE STEPS SEE DETAIL SHEET CG503
- ⑤ 12" THICK D50 6" COBBLE RIP RAP
- ⑥ 8" THICK CONCRETE RETAINING WALL SEE DETAIL SHEET CG502
- ⑦ DIVERSION BOX W/ BAR GRATE SCREEN
- ⑧ CONCRETE DIVERSION STRUCTURE
- ⑨ DIVERSION BUILDING
- ⑩ ABUTMENT WALL SEE DETAIL SHEET CG503
- ⑪ 24" THICK D50 12" COBBLE RIP RAP OVER DRAIN PIPE, KEY INTO EXISTING CHANNEL BED WITH 18" WIDE X 18" DEEP TRENCH SEE DETAIL C ON SHEET CG502
- ⑫ INSTALL 25' OF 16" PRESSURE CLASS 250 DUCTILE IRON DRAIN PIPE
- ⑬ INSTALL 5' LONG X 16" Ø PE X FL DUCTILE IRON SPOOL CONNECT TO 16" PRESSURE CLASS 250 DUCTILE IRON DRAIN PIPE W/ 16" ALPHA COUPLER
- ⑭ INSTALL 5' LONG X 16" Ø PE X FL DUCTILE IRON SPOOL CONNECT TO EXISTING 16" STEEL PIPE W/ 16" ALPHA COUPLER
- ⑮ TIE REBAR FROM 8" RETAINING WALL TO BAR IN BUILDING WALL AT CORNER
- ⑯ DRILL SPILL PAD AT 2' O.C. SPACING AND INJECT WITH NON SHRINKING GROUT TO FILL VOIDS AND STABILIZE SLAB
- ⑰ SAWCUT AND REMOVE DAMAGED CONCRETE AND REBAR ALONG EDGE OF SPILL PAD. DRILL AND EPOXY NEW REBAR 12" INTO SPILL PAD. TIE TO NEW DIVERSION SPILL WAY

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 PROJECT MANAGER: M. CHANDLER, PE
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 DRAWN BY: D. ZOLLINGER
 DRAWING SCALE: AS SHOWN
 ISSUE DATE: AUGUST 2, 2018

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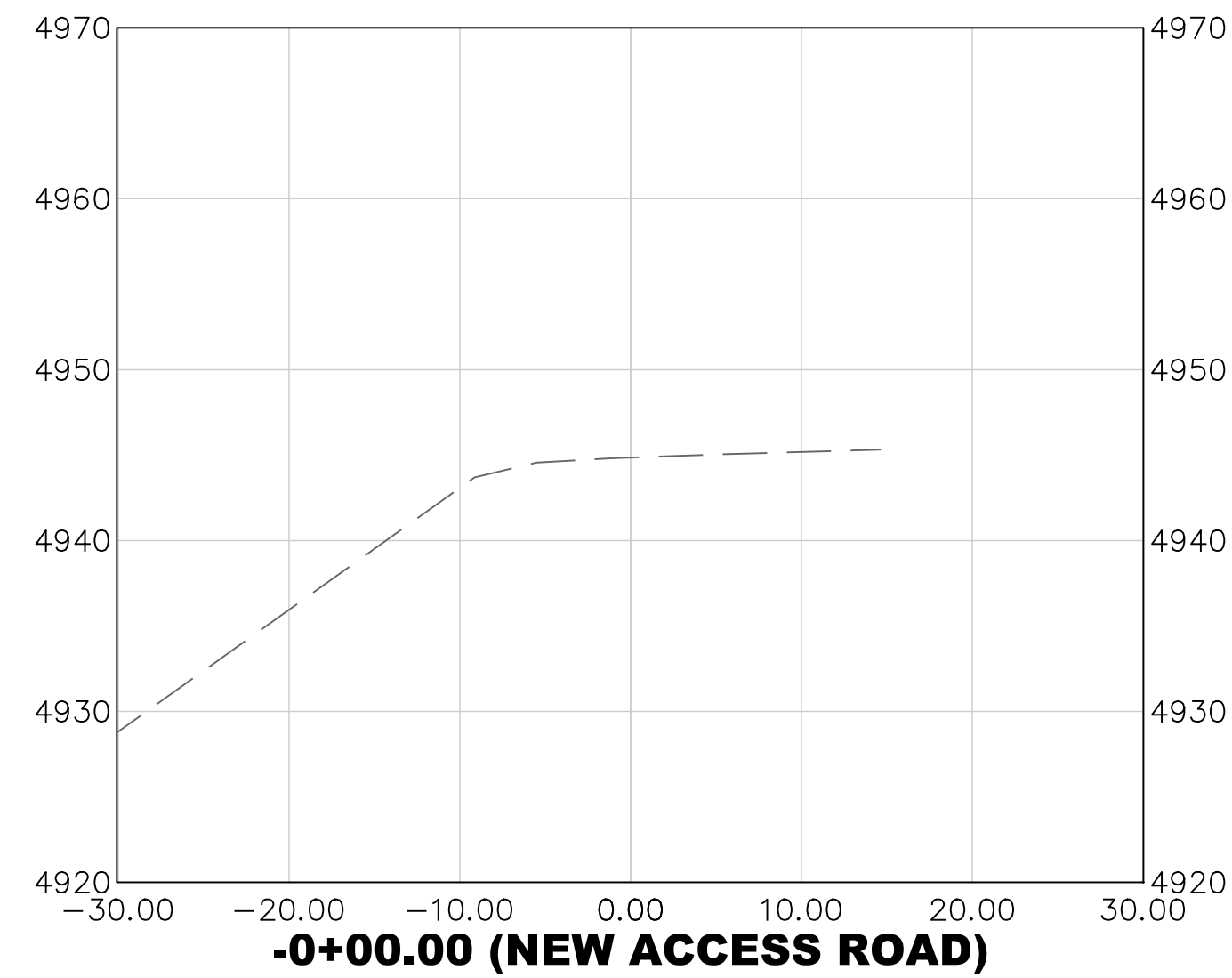
OGDEN CITY
 WHEELER CREEK DIVERSION
 DIVERSION BUILDING SITE PLAN

SR39 & PINEVIEW RESERVOIR

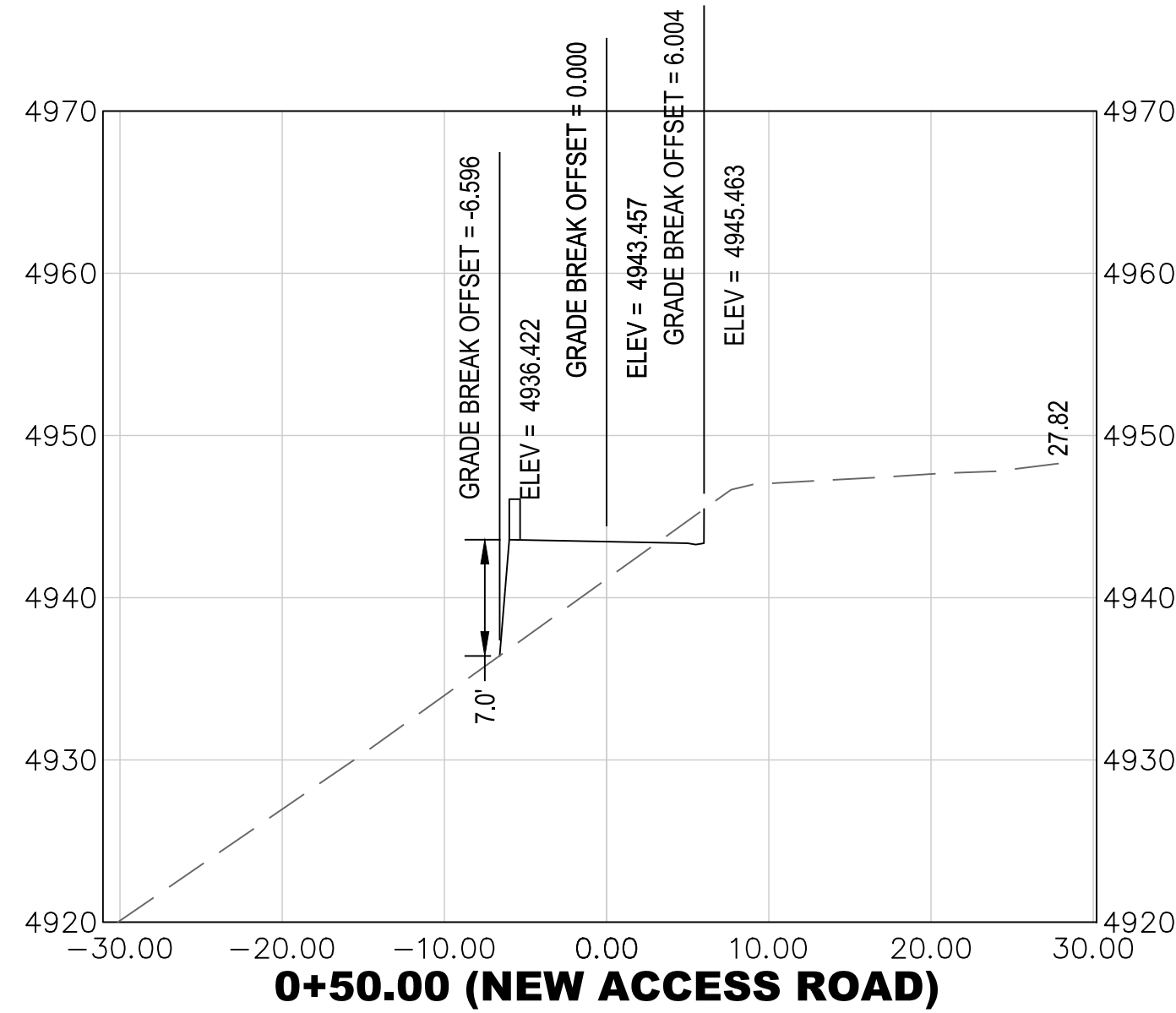
OGDEN CANYON

PROJECT NUMBER	16111C	
SHEET	6	OF 21
SHEET NUMBER	CG102	

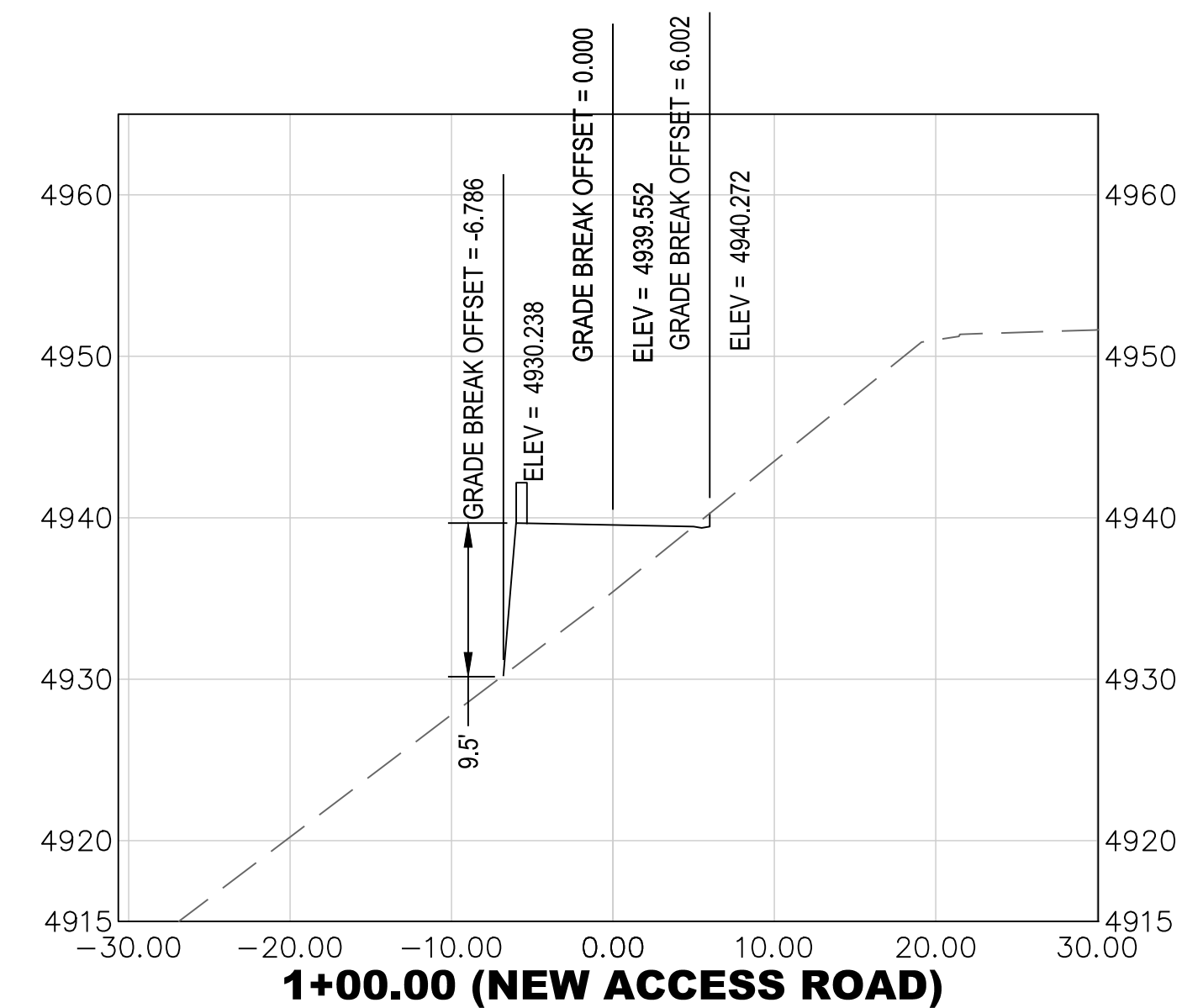
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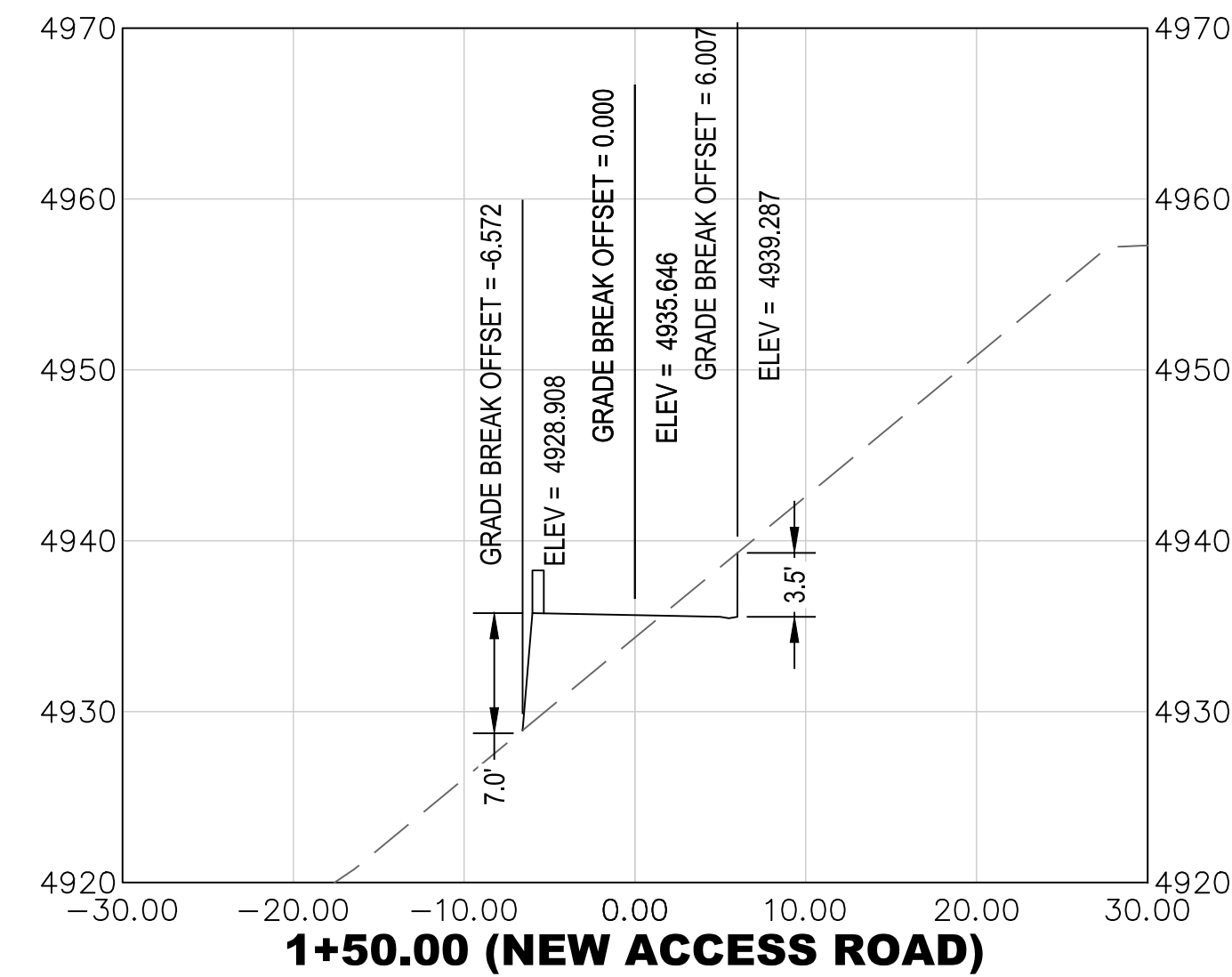
A SECTION VIEW 1
CG201 SCALE: 1:10



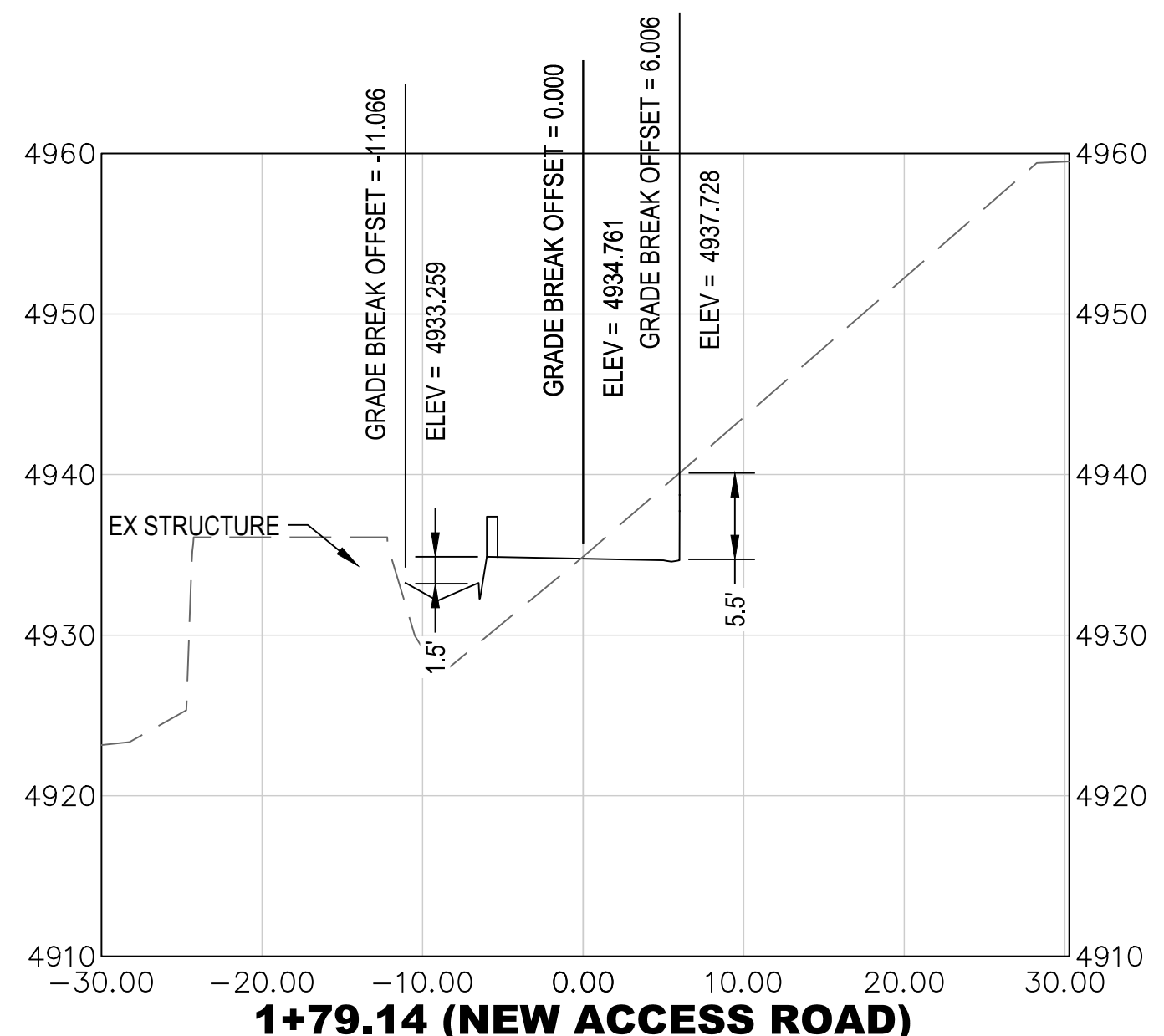
B SECTION VIEW 2
CG201 SCALE: 1:10



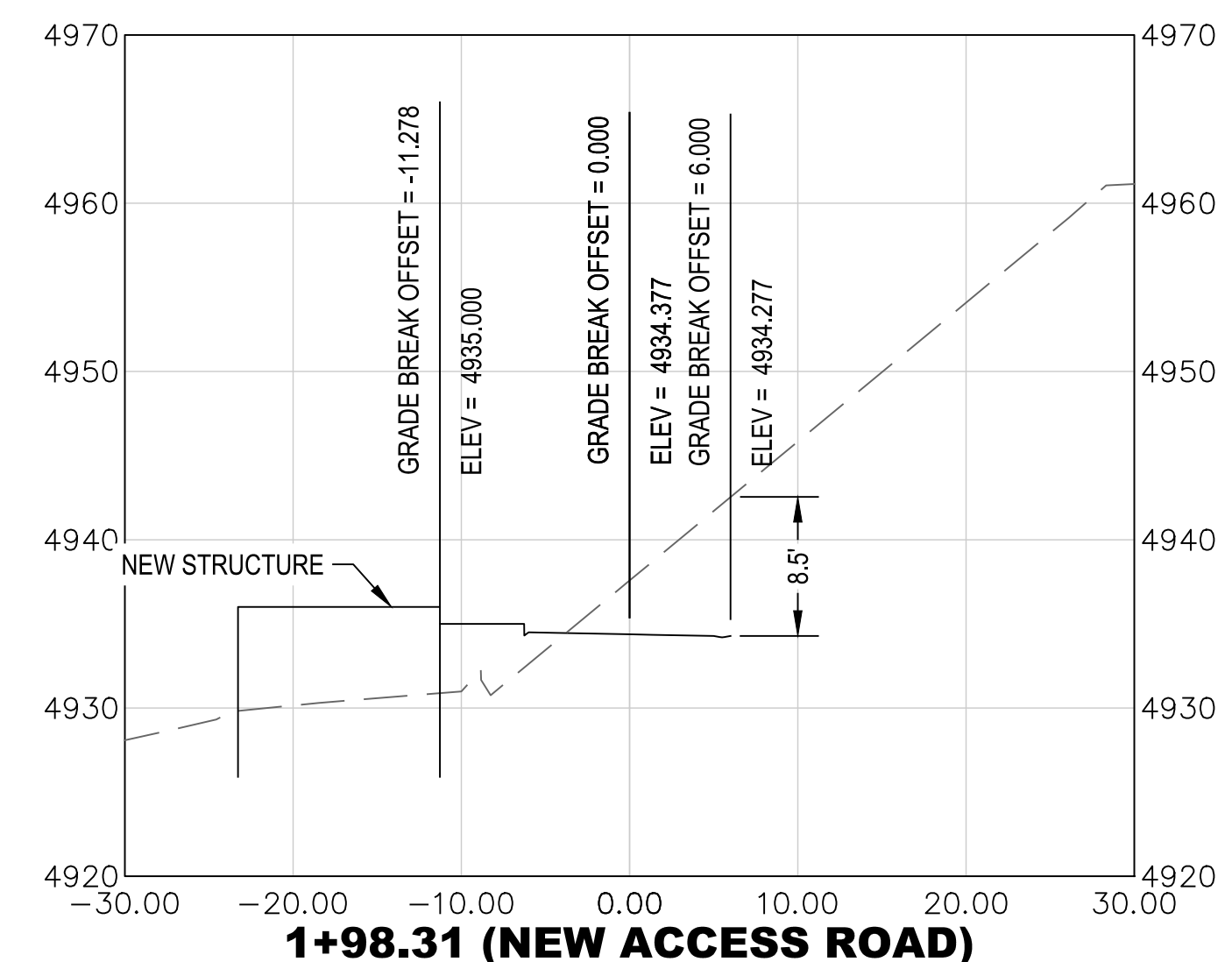
C SECTION VIEW 3
CG201 SCALE: 1:10



D SECTION VIEW 4
CG201 SCALE: 1:10



E SECTION VIEW 5
CG201 SCALE: 1:10



F SECTION VIEW 6
CG201 SCALE: 1:10

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PROJECT MANAGER: **M. CHANDLER, PE**
CHECKED BY: **C. ALLEN, PE**
DRAWN BY: **D. ZOLLINGER**
DRAWING SCALE: **AS SHOWN**
ISSUE DATE: **AUGUST 2, 2018**

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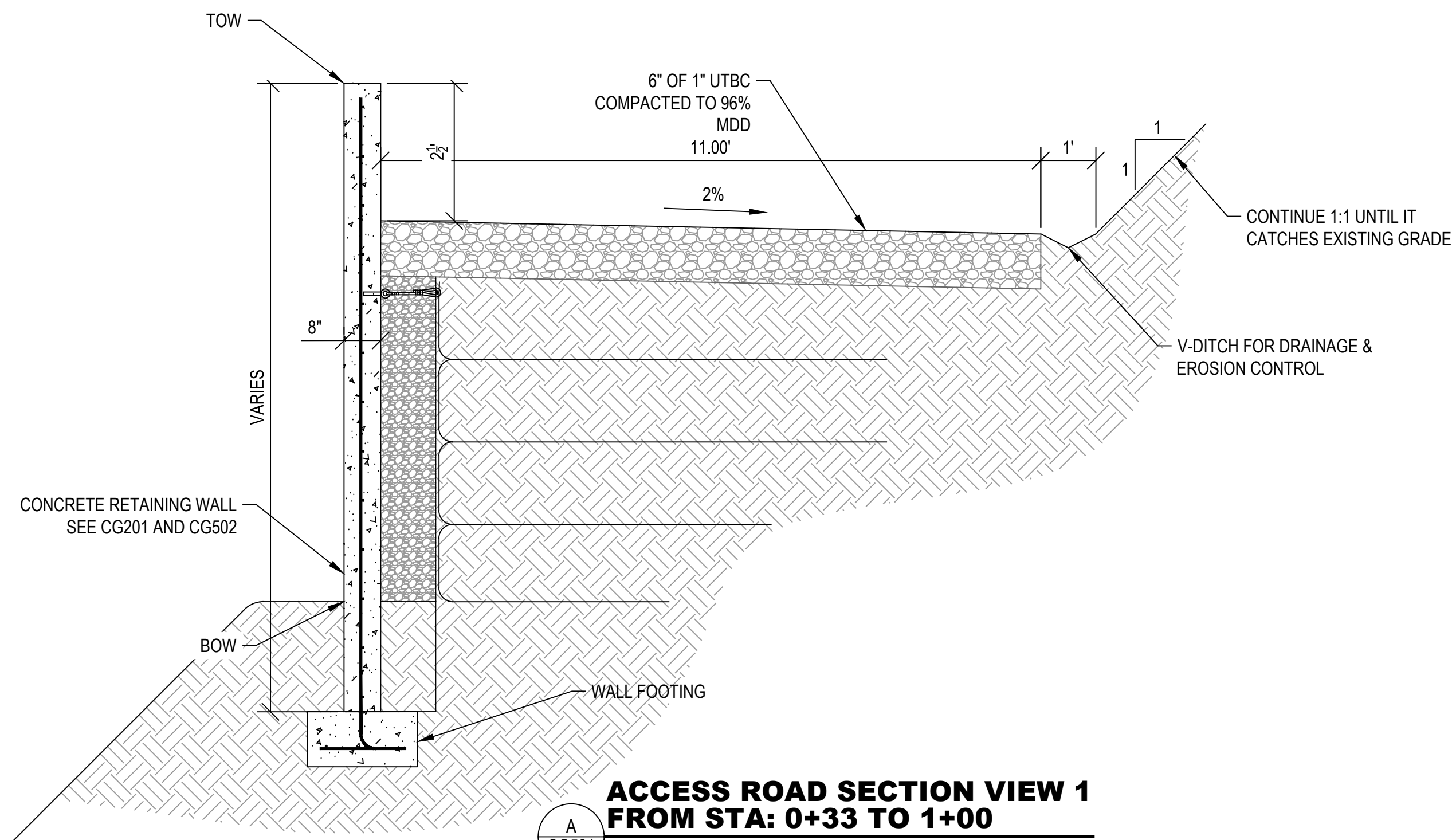
OGDEN CITY
WHEELER CREEK DIVERSION
GRADING SECTION VIEWS

SR39 & PINEVIEW RESERVOIR

OGDEN CANYON

PROJECT NUMBER 16111C	
SHEET 7	OF 21
SHEET NUMBER CG201	

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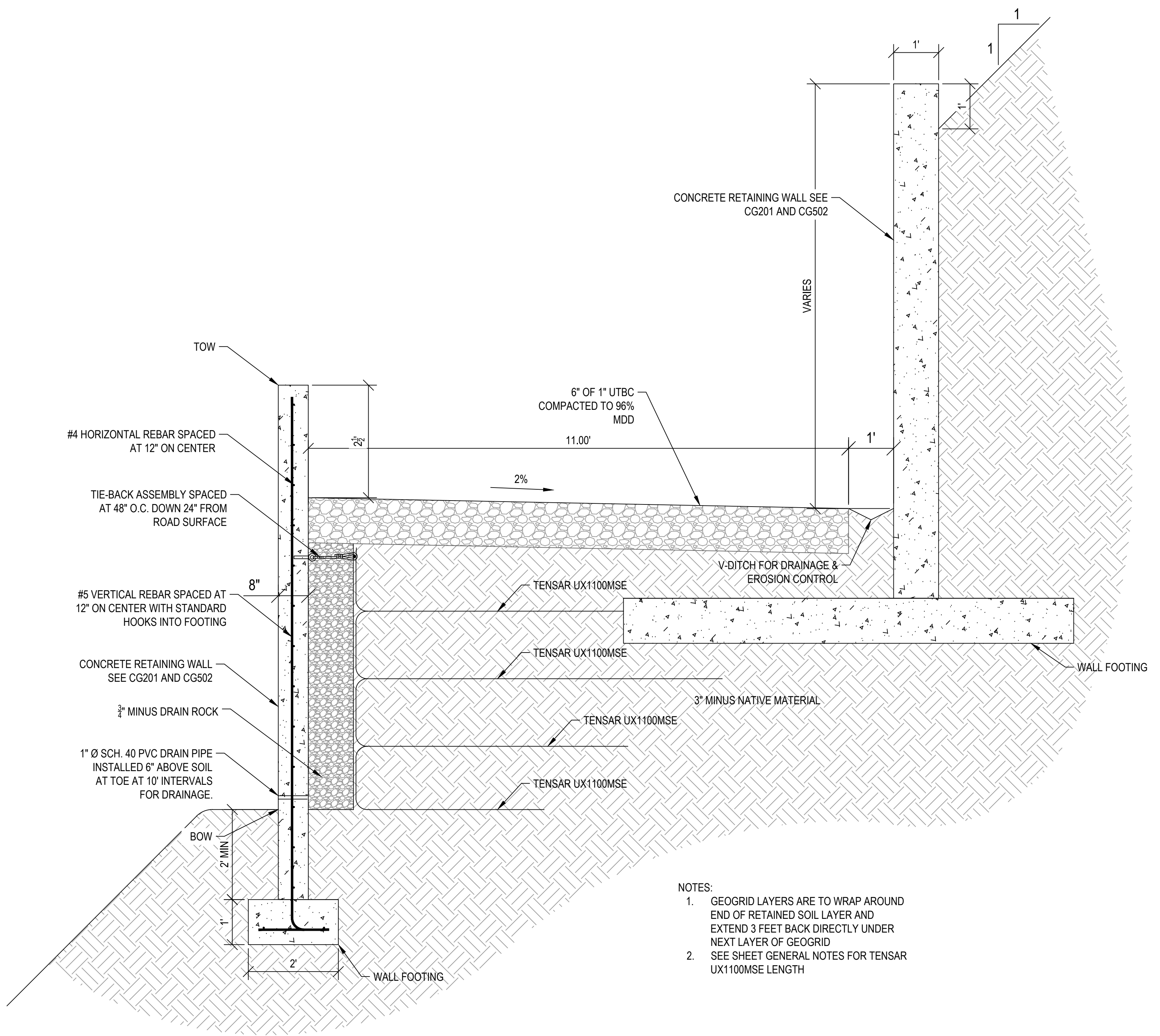
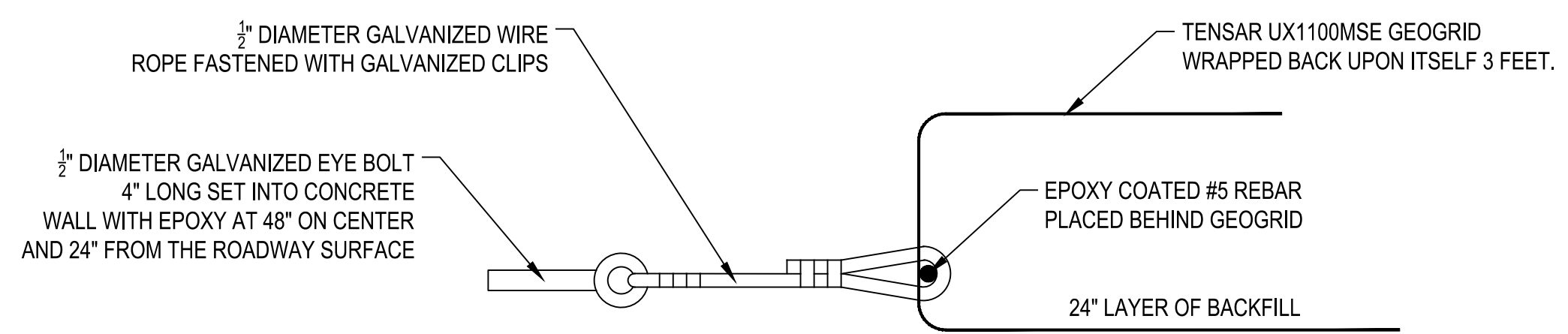


ACCESS ROAD SECTION VIEW 1
FROM STA: 0+33 TO 1+00
 A
 CG501 SCALE: NONE

GENERAL NOTES

WALL HEIGHT	GEOGRID	GRID LAY LENGTH
2'	TENSAR UX1100 MSE	6'
4'	TENSAR UX1100 MSE	9'
6'	TENSAR UX1100 MSE	12'
8'	TENSAR UX1100 MSE	12'
10'	TENSAR UX1100 MSE	15'

NOTE:
 ALL GRID IS TO BE BACKFILLED WITH A MINIMUM OF 2 FT OF COVER.
 BACKFILL IS TO CONSIST OF 1" MINUS UNTREATED BASE COURSE COMPACTED TO 95% MAX DRY DENSITY.



ACCESS ROAD SECTION VIEW 2
FROM STA: 1+30 TO 1+98
 B
 CG501 SCALE: NONE

NOTES:
 1. GEOGRID LAYERS ARE TO WRAP AROUND END OF RETAINED SOIL LAYER AND EXTEND 3 FEET BACK DIRECTLY UNDER NEXT LAYER OF GEOGRID
 2. SEE SHEET GENERAL NOTES FOR TENSAR UX1100MSE LENGTH

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 PROJECT MANAGER: M. CHANDLER, PE
 CHECKED BY: C. ALLEN, PE
 DRAWN BY: D. REYNOLDS
 DRAWING SCALE: AS SHOWN
 ISSUE DATE: AUGUST 2, 2018

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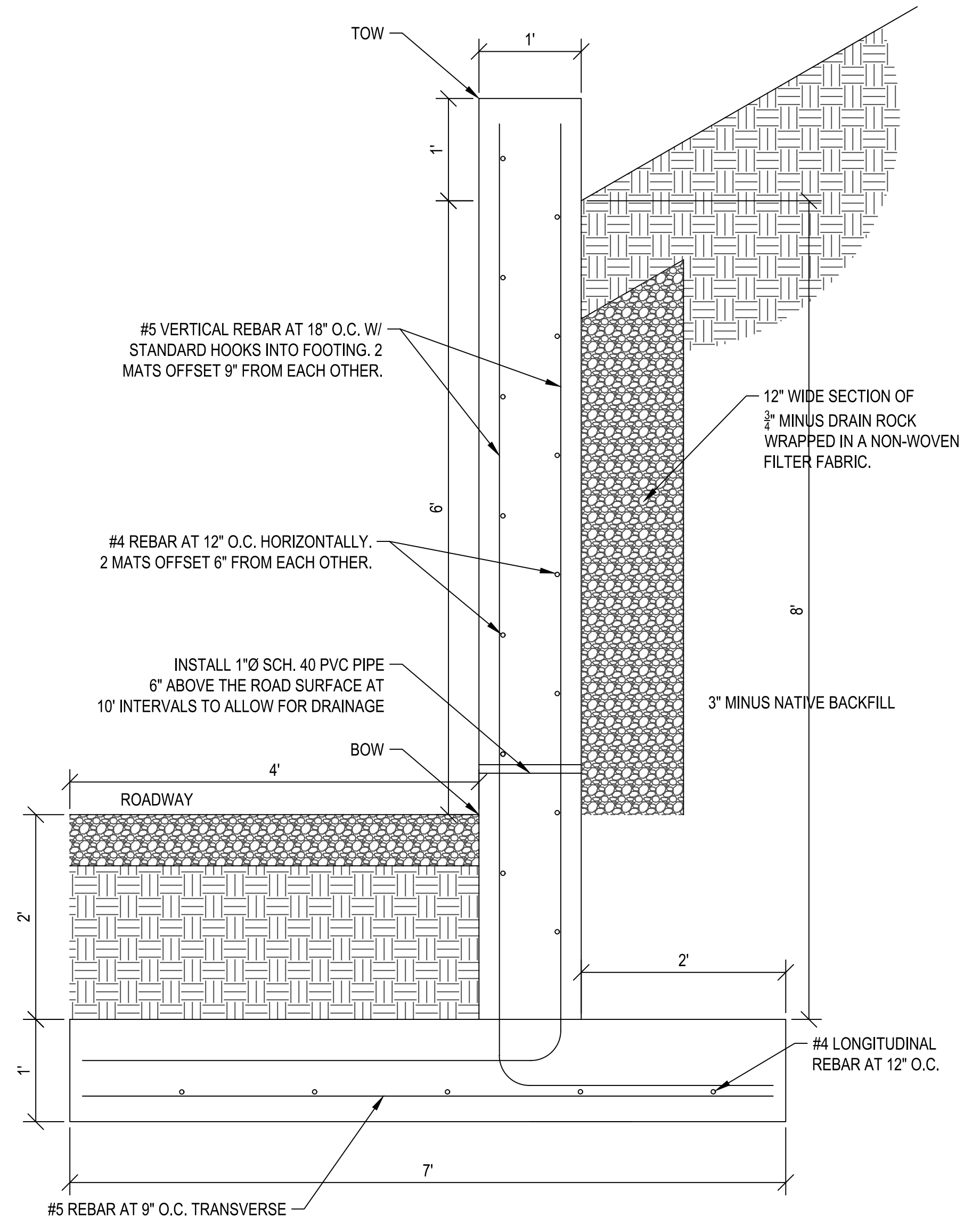
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OGDEN CITY
 WHEELER CREEK DIVERSION
 RETAINING WALL SECTIONS

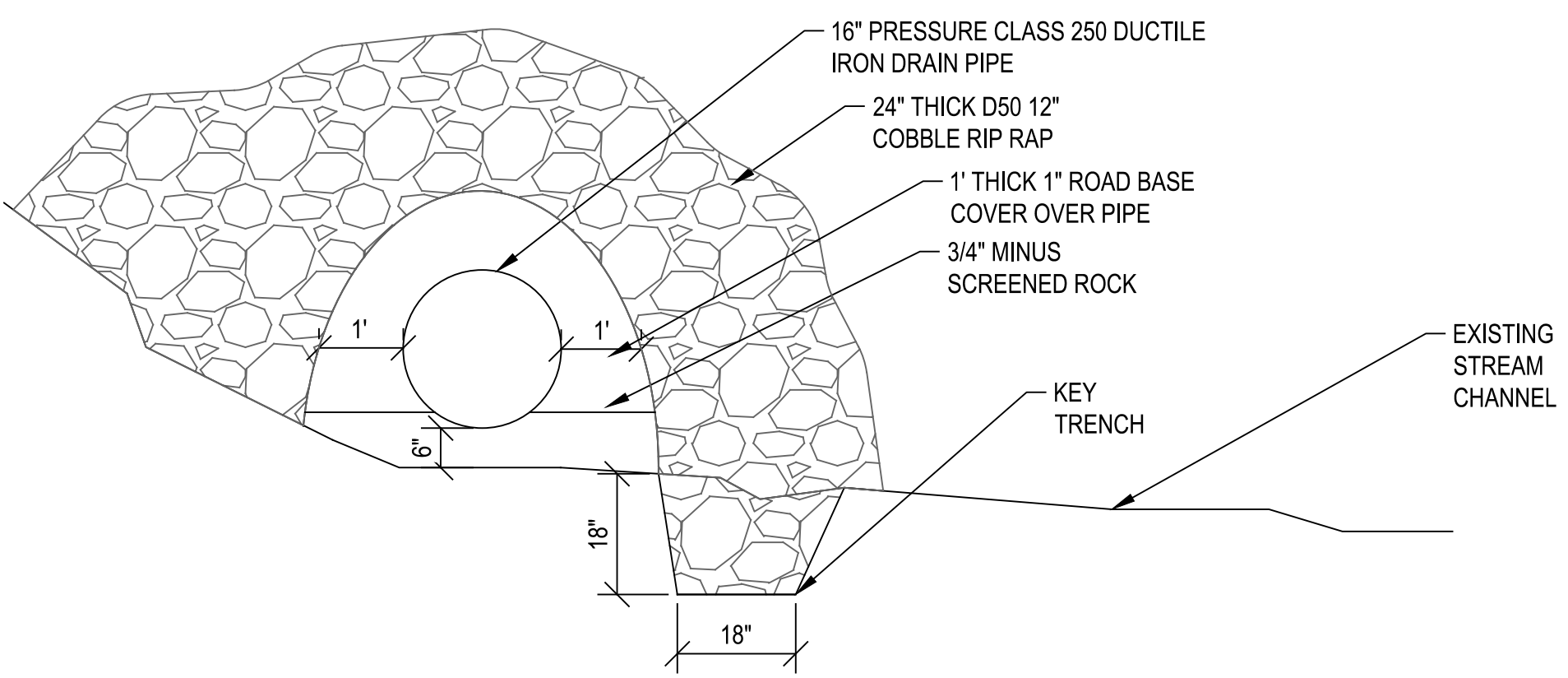
OGDEN CANYON
 OGDEN, UTAH

PROJECT NUMBER	16111C
SHEET	8 OF 21
SHEET NUMBER	CG501

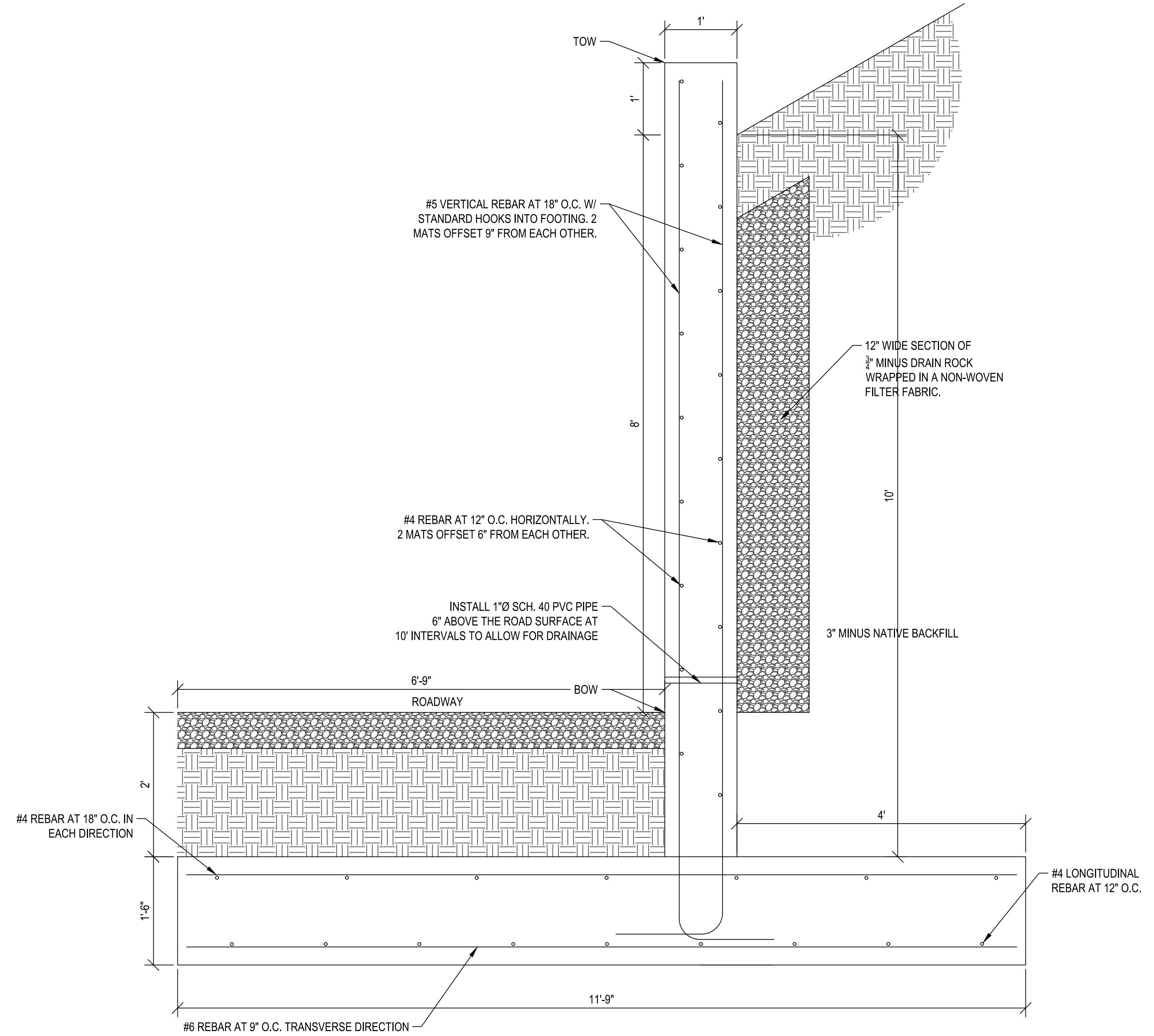
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A 8' RETAINING WALL (WEST SIDE)
CG502 SCALE: 1" = 1'-0"



C DRAIN PIPE COVER DETIAL
CG502 SCALE: 1:2



B 10' RETAINING WALL (WEST SIDE)
CG502 SCALE: 1" = 1'-0"

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PROJECT MANAGER: M. CHANDLER, PE
CHECKED BY: C. ALLEN, PE
DRAWN BY: C. NEBEKER
DRAWING SCALE: AS SHOWN
ISSUE DATE: AUGUST 2, 2018

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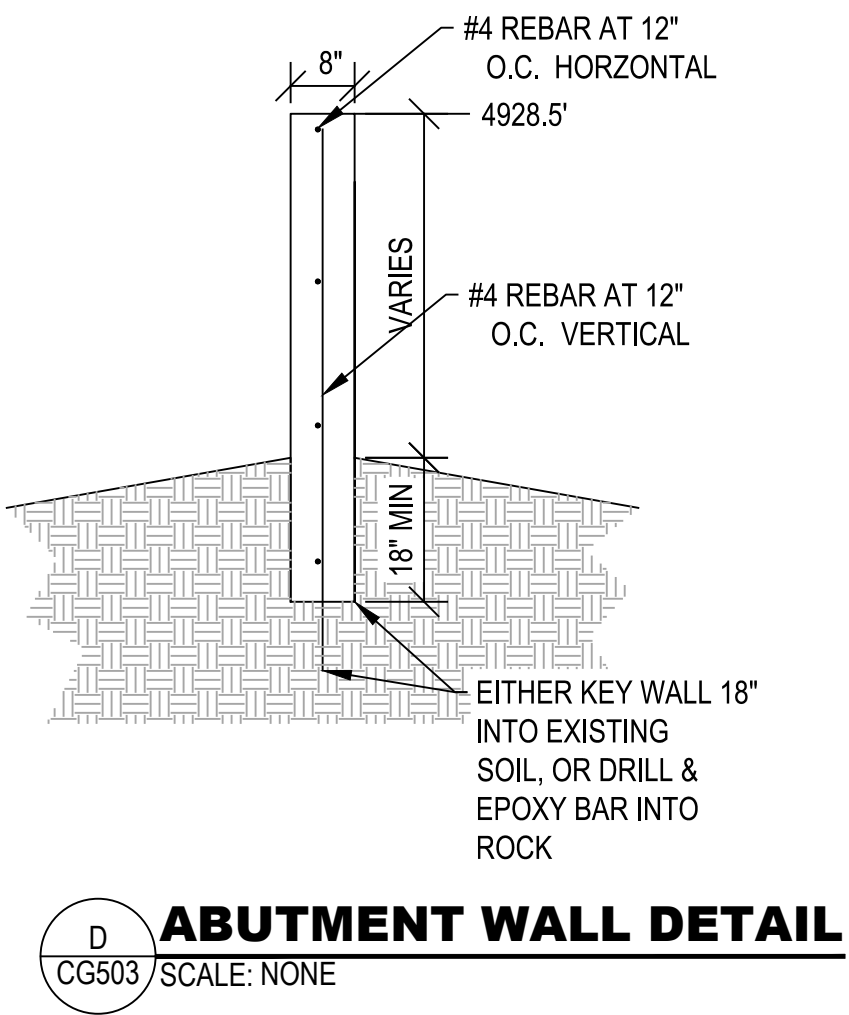
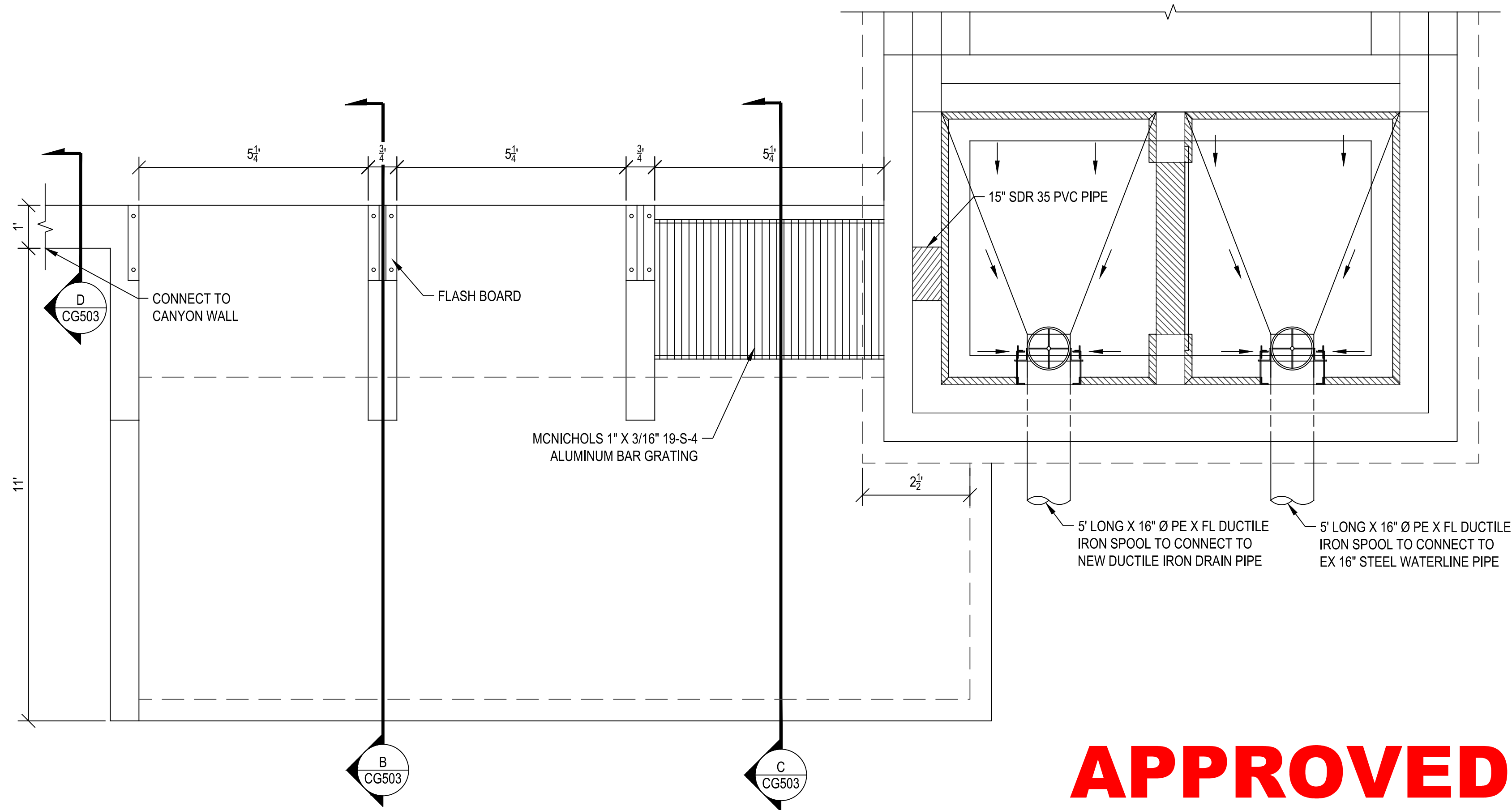
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OGDEN CITY
WHEELER CREEK DIVERSION
RETAINING WALL DETAILS

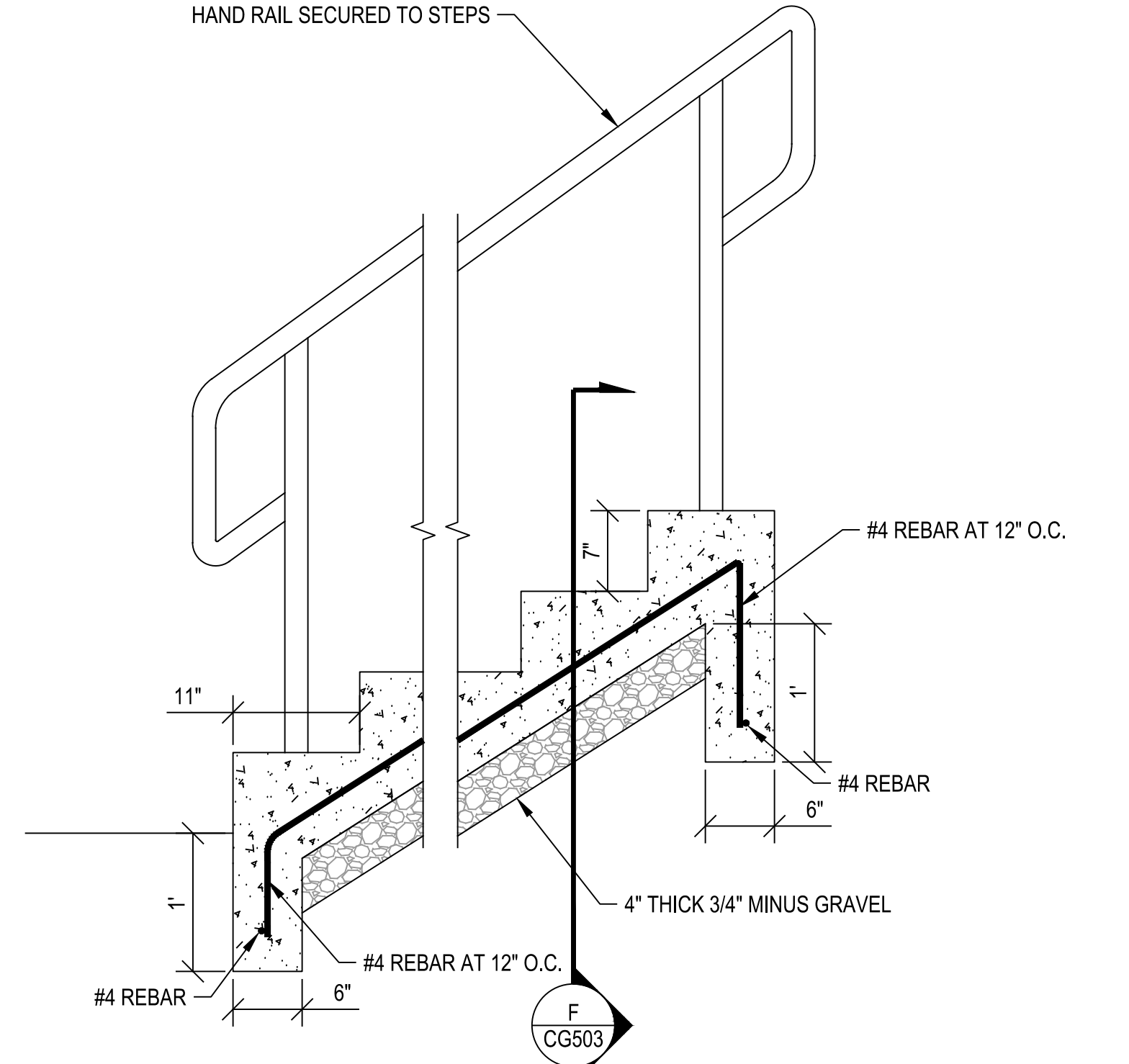
OGDEN CANYON
OGDEN, UTAH

PROJECT NUMBER	16111C
SHEET	9 OF 21
SHEET NUMBER	CG502

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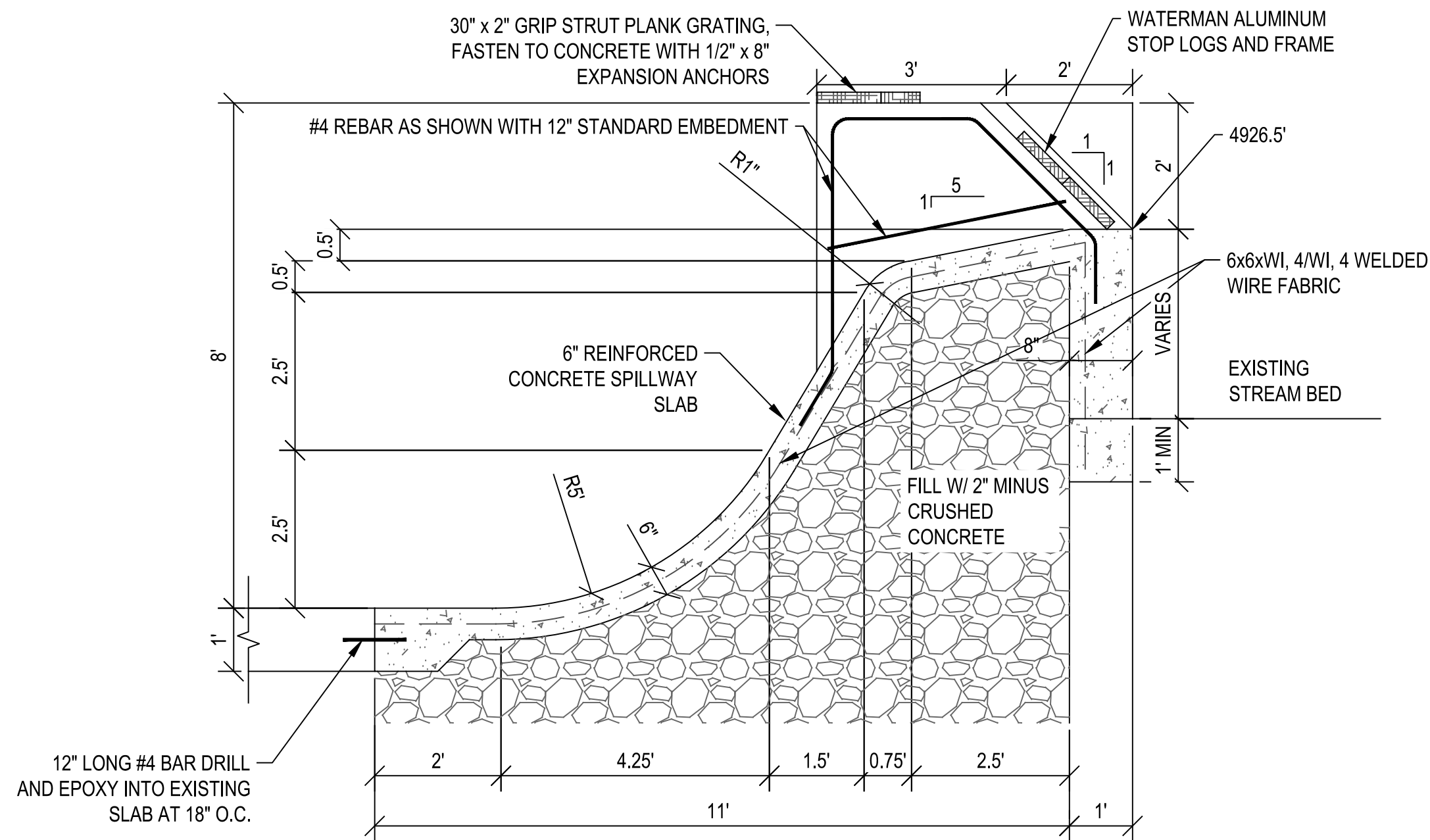
D ABUTMENT WALL DETAIL
CG503 / SCALE: NONE



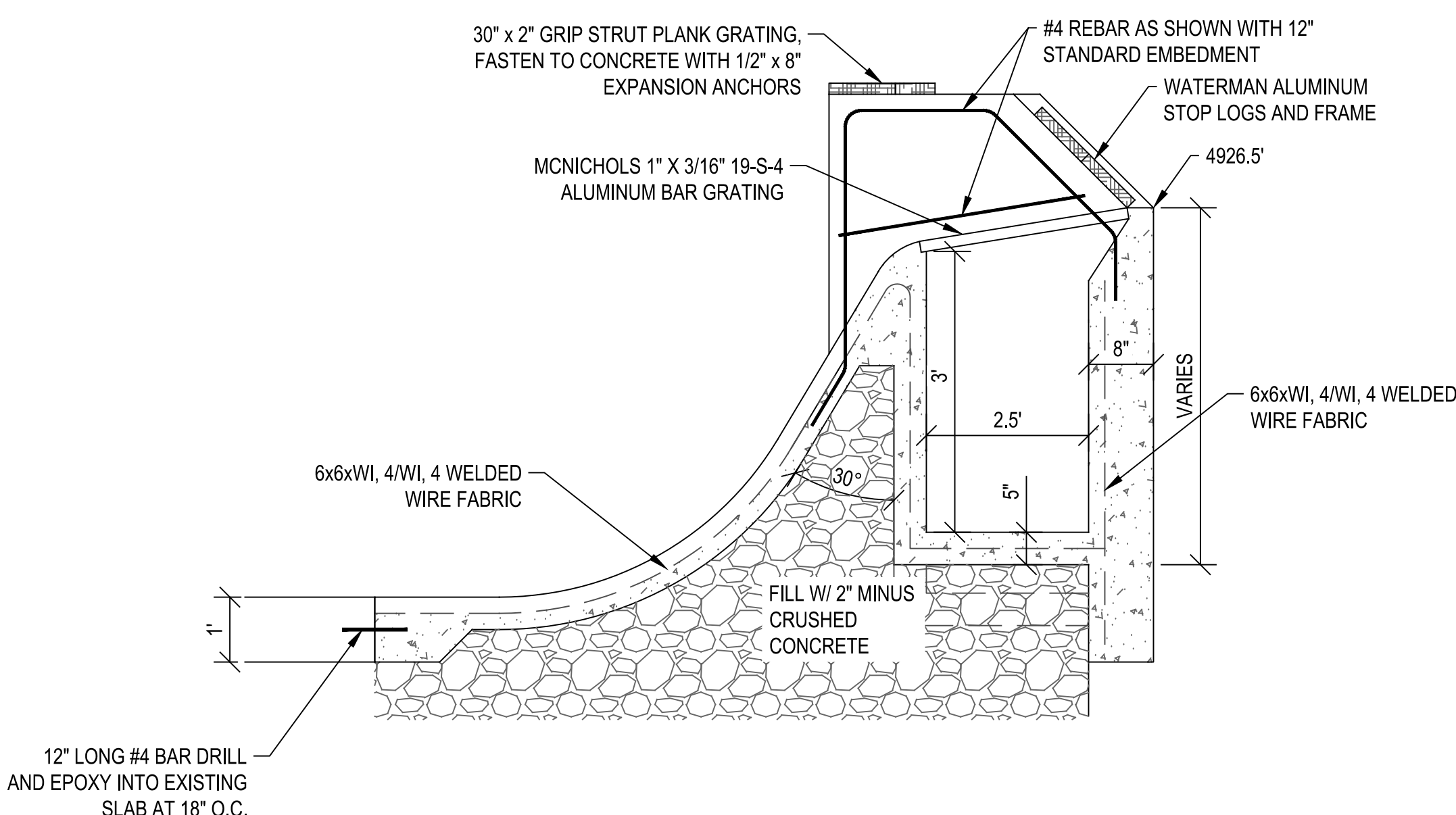
E STAIRWAY PROFILE VIEW
CG503 / SCALE: NONE

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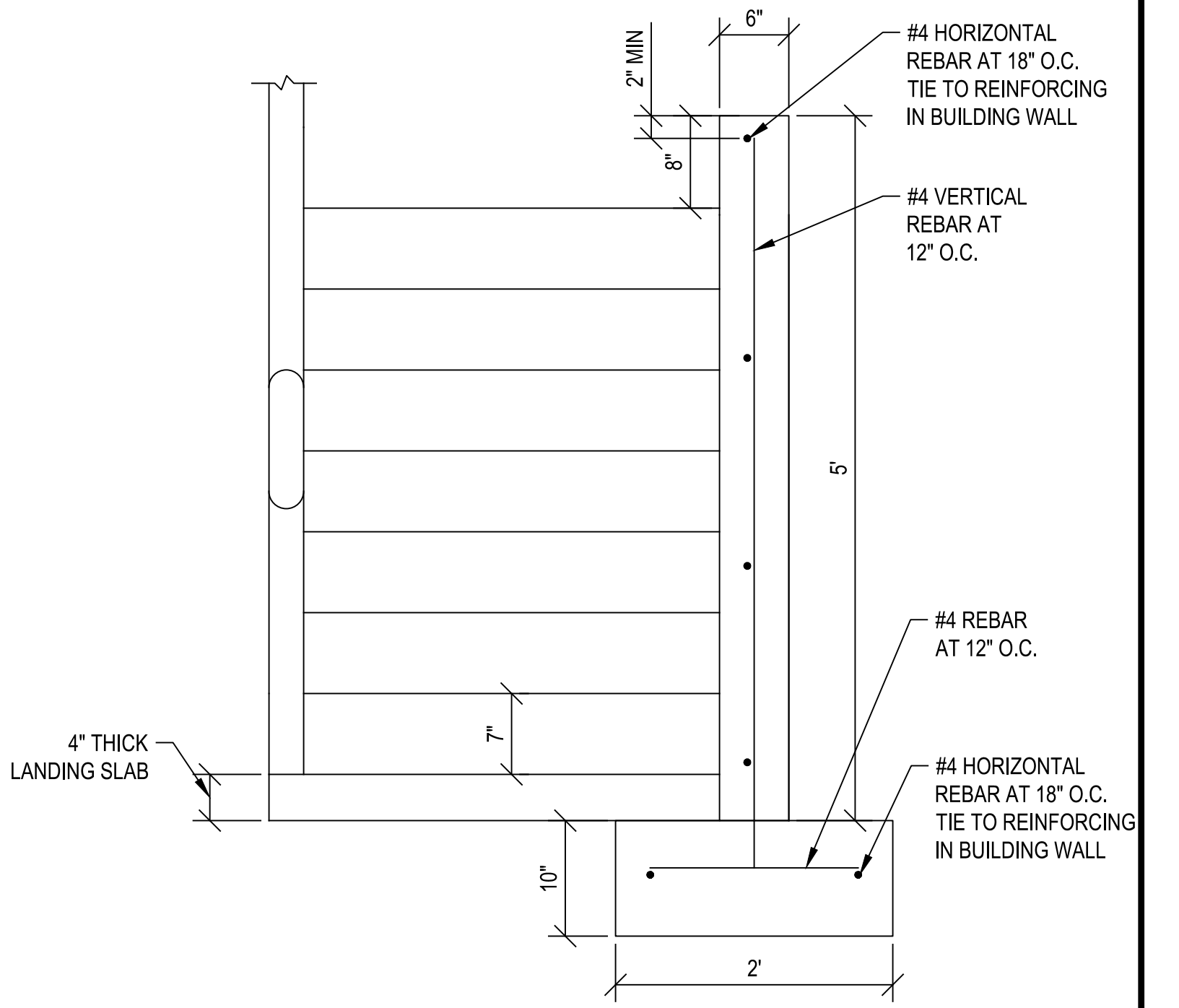
A DIVERSION PLAN VIEW
CG503 / SCALE: NONE



B SPILLWAY/DIVERSION SECTION DETAIL
CG503 / SCALE: NONE



C DIVERSION BOX SECTION DETAIL
CG503 / SCALE: NONE



F STAIRWAY SECTION VIEW
CG503 / SCALE: NONE

NO.	DESCRIPTION	DATE

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PROJECT MANAGER M. CHANDLER, PE
CHECKED BY C. ALLEN, PE
DRAWN BY D. REYNOLDS
DRAWING SCALE AS SHOWN
ISSUE DATE AUGUST 2, 2018

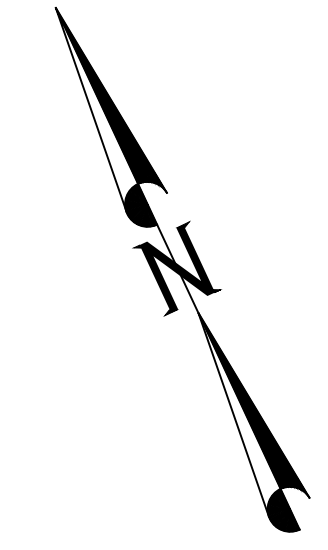
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OGDEN CITY
WHEELER CREEK DIVERSION
DIVERSION STRUCTURE DETAILS

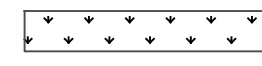

OGDEN CANYON

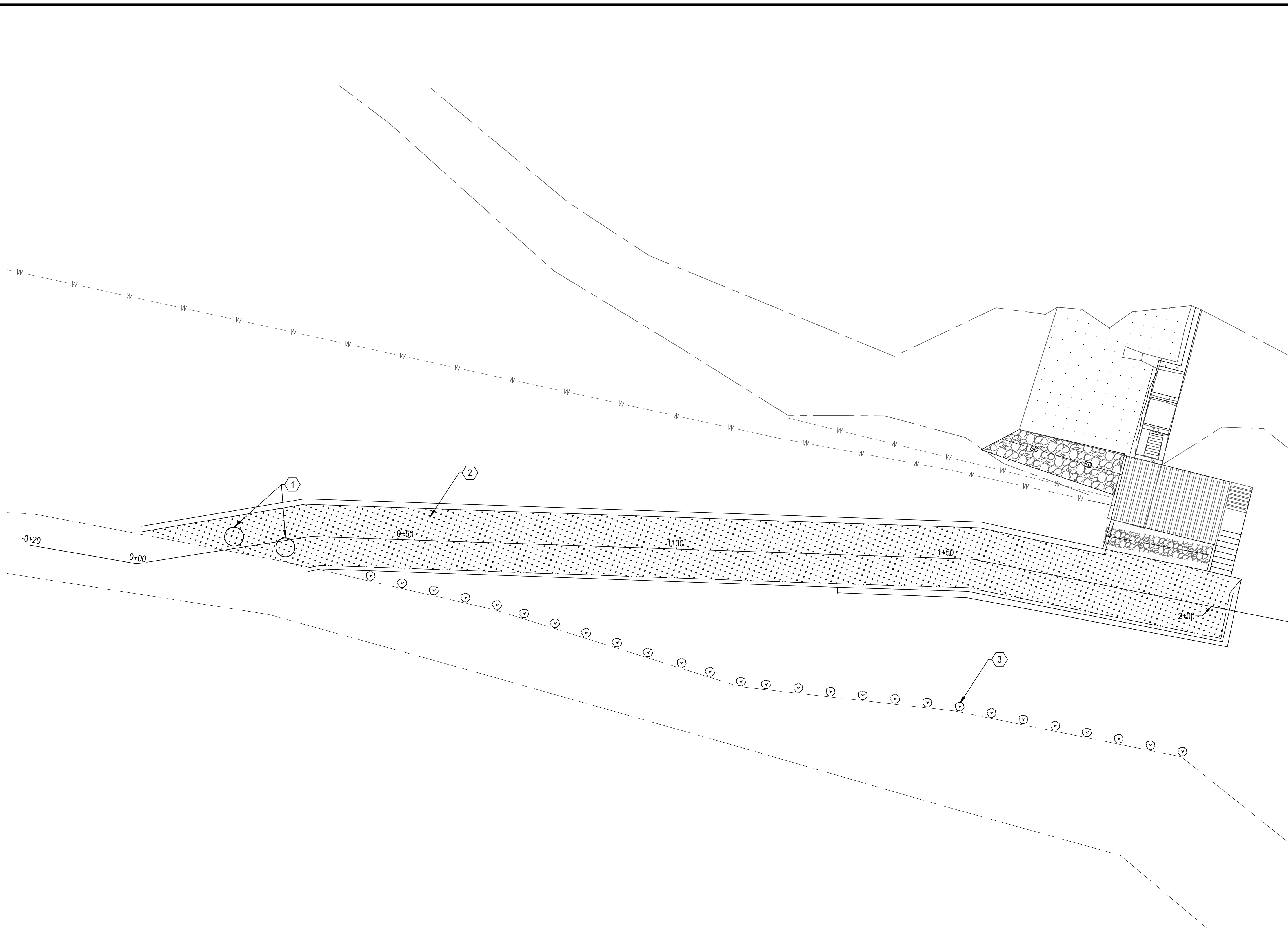
OGDEN, UTAH

PROJECT NUMBER 16111C
SHEET 10 OF 21
SHEET NUMBER CG503






LEGEND

-  GRASS
-  1 GALLON NATIVE SHRUB



LANDSCAPE KEYNOTES

-  42" DIAMETER BOULDERS
-  2' OF TOPSOIL SEEDED WITH NATIVE SPECIES OF GRASS
-  1 GALLON NATIVE SHRUBS SPACED AT 6' O.C.

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File Path: P:\16111C Ogdem City-Wheeler Creek Diversion\Drawings\Sheets\LS101.dwg Apr 01, 2019 - 2:50pm

NO.	DATE	DESCRIPTION

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PRINCIPAL: **D. ANDERSON, PE**
 PROJECT MANAGER: **M. CHANDLER, PE**
 CHECKED BY: **C. ALLEN, PE**
 DRAWN BY: **D. ZOLLINGER**
 DRAWING SCALE: **AS SHOWN**
 ISSUE DATE: **AUGUST 2, 2018**

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OGDEN CITY
WHEELER CREEK DIVERSION
LANDSCAPING

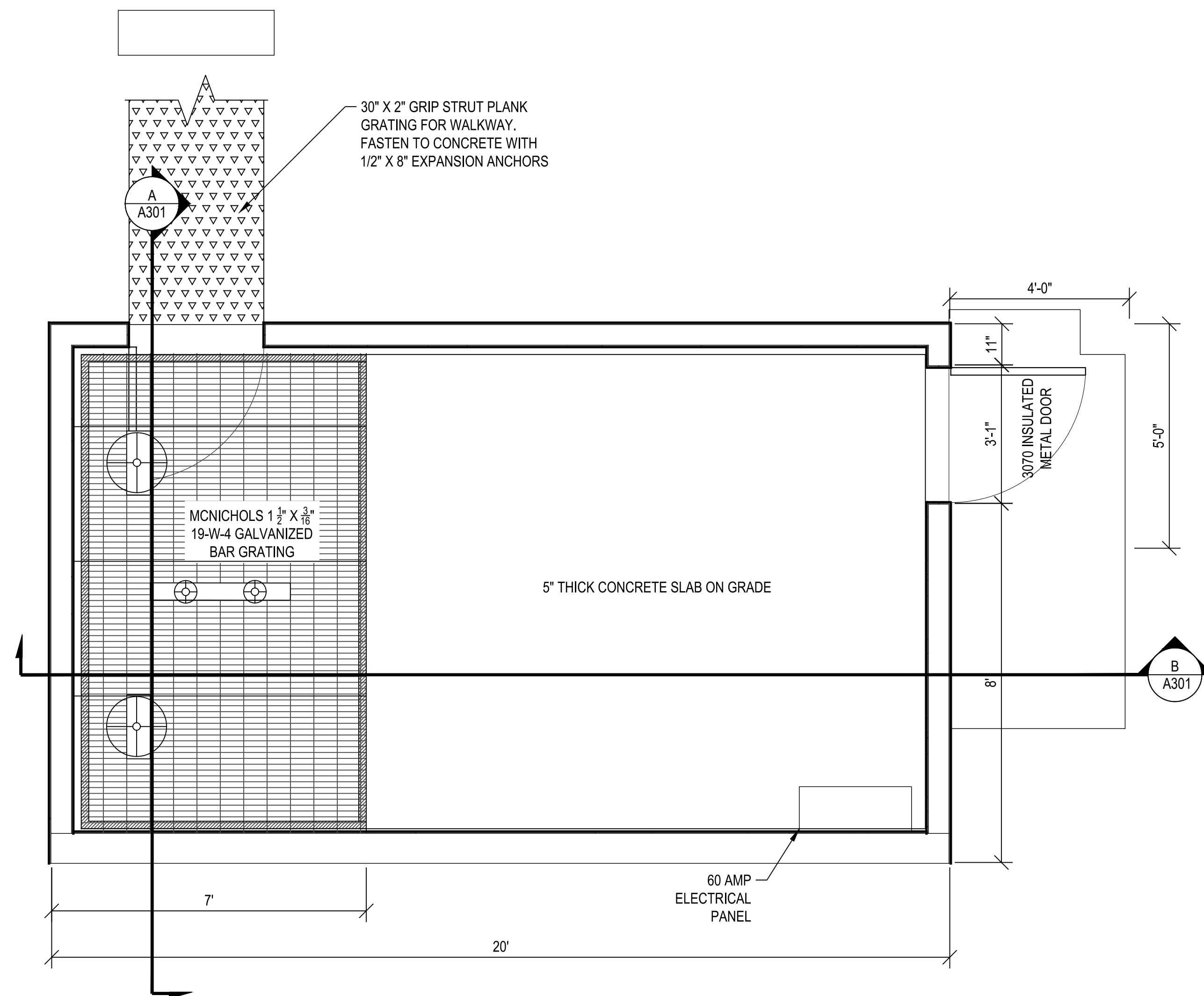
SR39 & PINEVIEW RESERVOIR

OGDEN CANYON

STAMP

PROJECT NUMBER 16111C	
SHEET 11	OF 21
SHEET NUMBER LS101	

File Path: P:\16111C Ogdem City-Wheeler Creek Diversion\Drawings\Structure Design\A101-FLOOR PLAN.dwg Apr 01, 2019 - 2:52pm



A FLOOR PLAN
A101 SCALE: 1/2" = 1'-0"

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FOR CONSTRUCTION

NO.	DATE	REVISIONS

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PRINCIPAL: M. HIRST
PROJECT MANAGER: M. CHANDLER
CHECKED BY: M. PORTER
DRAWN BY: K. ACHTER
DRAWING SCALE: AS SHOWN
ISSUE DATE: AUGUST 2, 2018

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OGDEN CITY
WHEELER CREEK DIVERSION
FLOOR PLAN

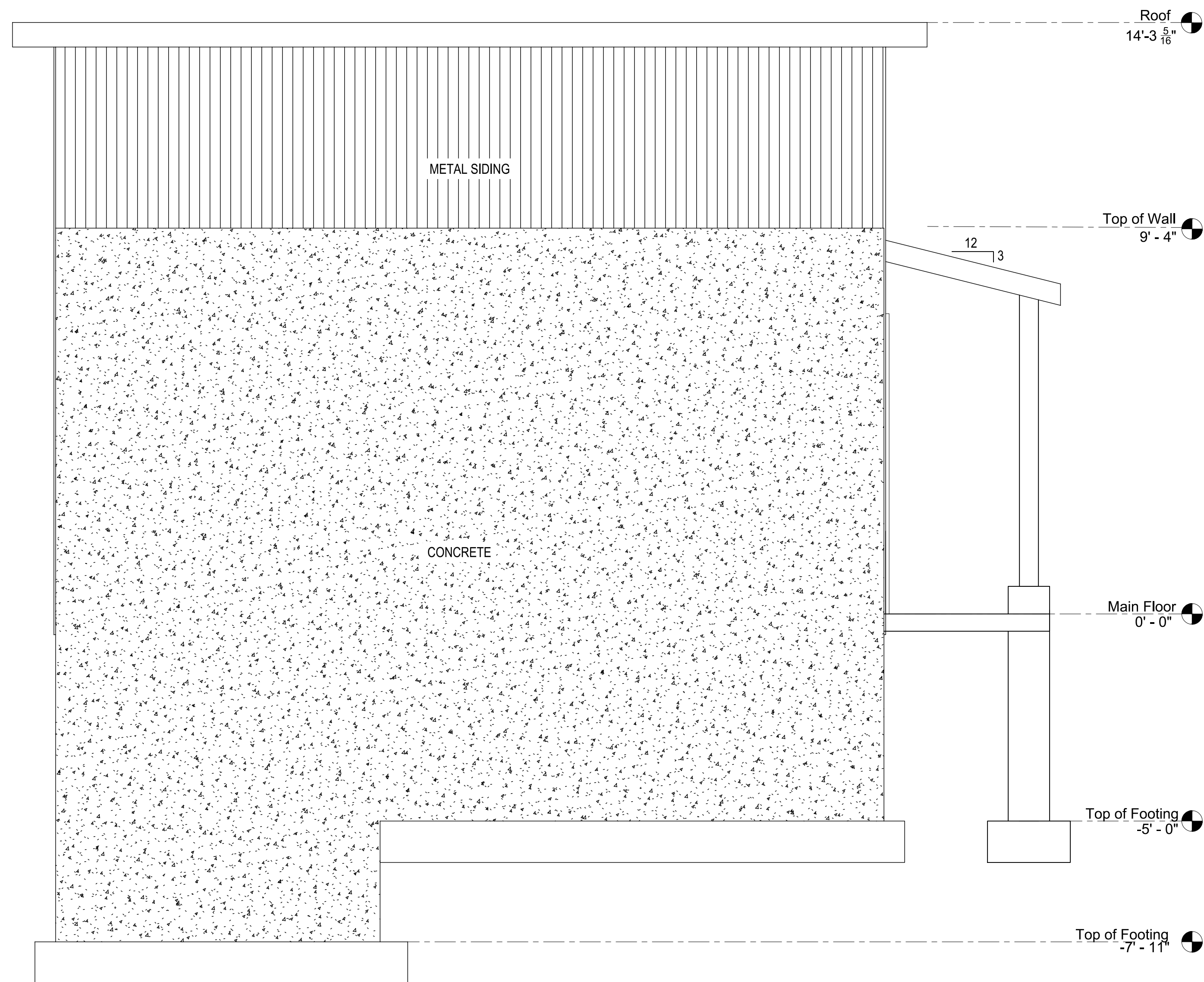
OGDEN CANYON

OGDEN, UTAH

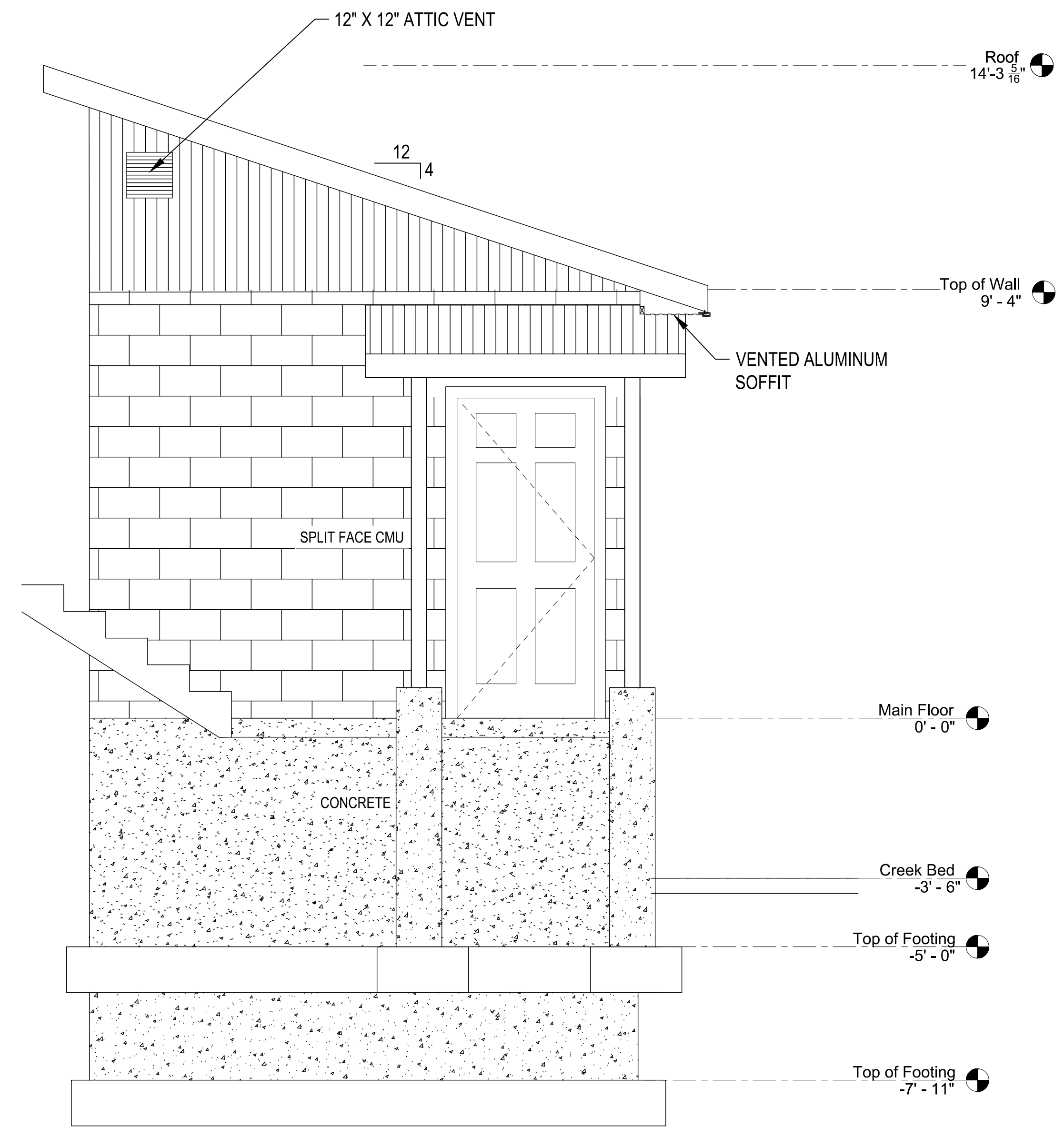
STAMP

PROJECT NUMBER	16111C	
SHEET	12	OF 21
SHEET NUMBER	A101	

File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Structure Design\A201-ELEVATIONS.dwg Apr 01, 2019 - 2:52pm



A WEST ELEVATION
SCALE: 1/2" = 1'-0"



B SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

APPROVED
FOR CONSTRUCTION

NO.	DATE	DESCRIPTION

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PROJECT MANAGER: M. CHANDLER
CHECKED BY: M. PORTER
DRAWN BY: K. ACHTER
DRAWING SCALE: AS SHOWN
ISSUE DATE: AUGUST 2, 2018

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OGDEN CITY
WHEELER CREEK DIVERSION
ARCHITECTURAL ELEVATIONS

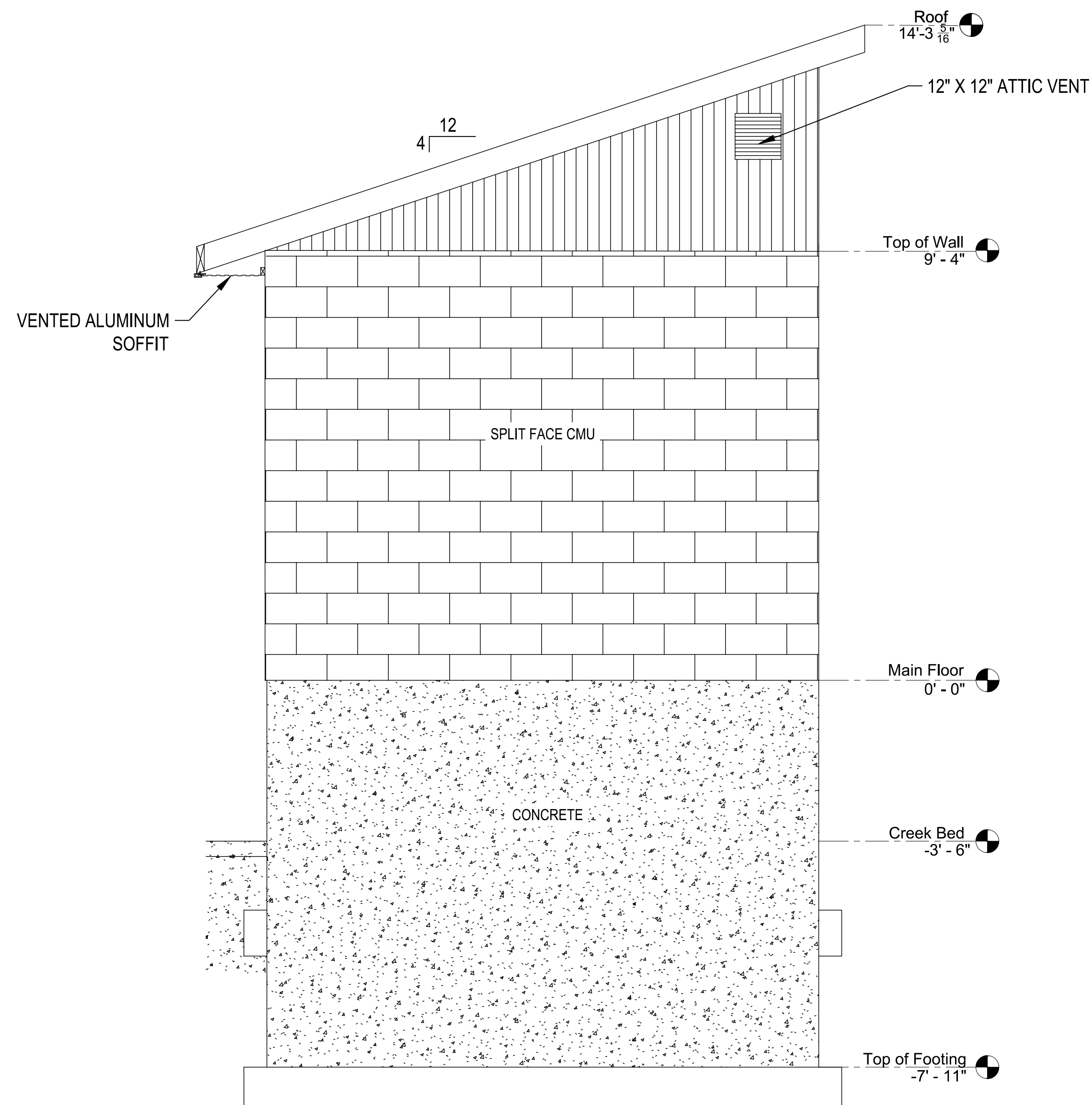
OGDEN CANYON

OGDEN, UTAH

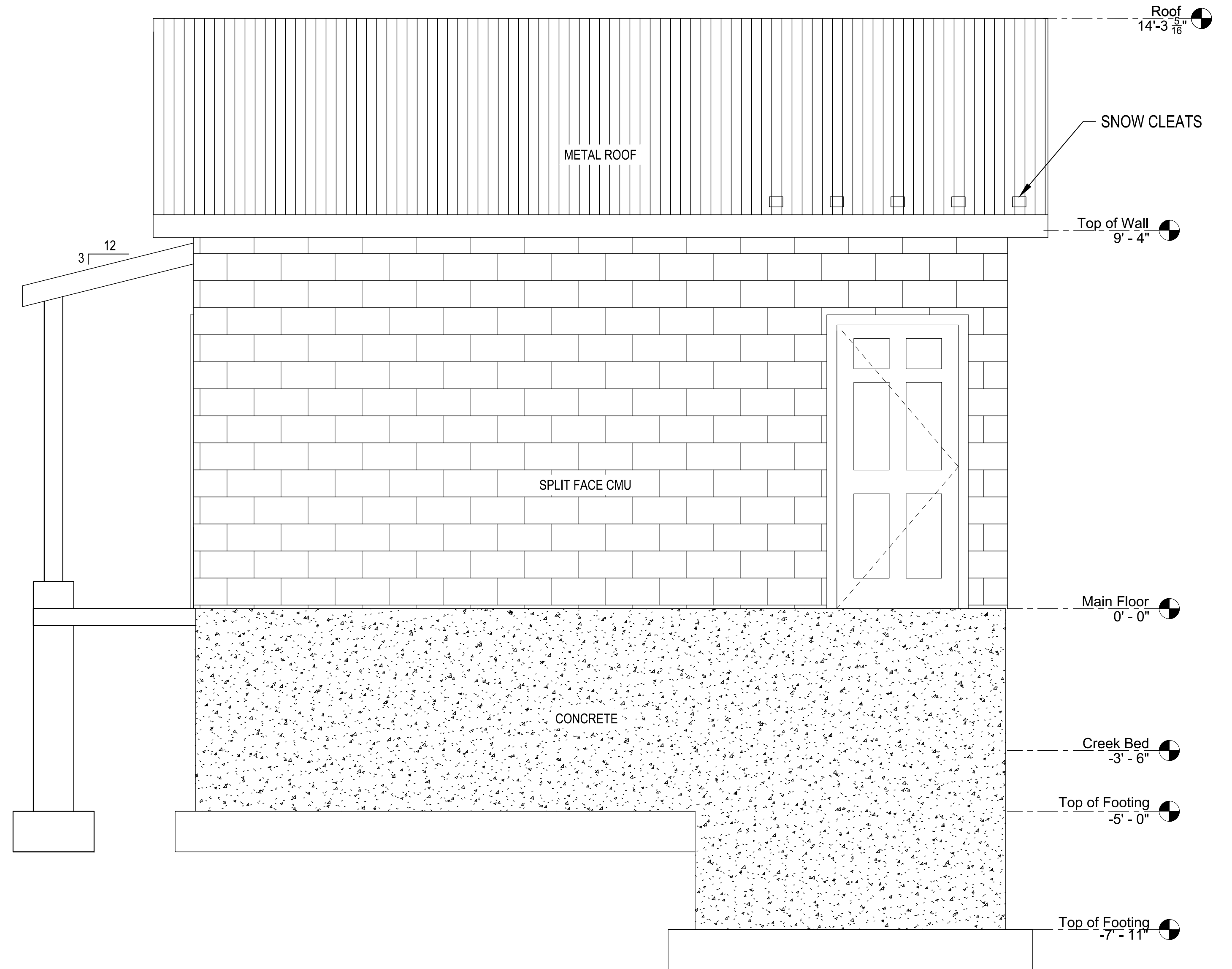
PROJECT NUMBER: 16111C
SHEET: 13 OF 21
SHEET NUMBER: A202

PROJECT NUMBER: 16111C
SHEET: 13 OF 21
SHEET NUMBER: A202

File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Structure Design\A201-ELEVATIONS.dwg Apr 01, 2019 - 2:53pm



A NORTH ELEVATION
A201 SCALE: 1/2" = 1'-0"



B EAST ELEVATION
A201 SCALE: 1/2" = 1'-0"

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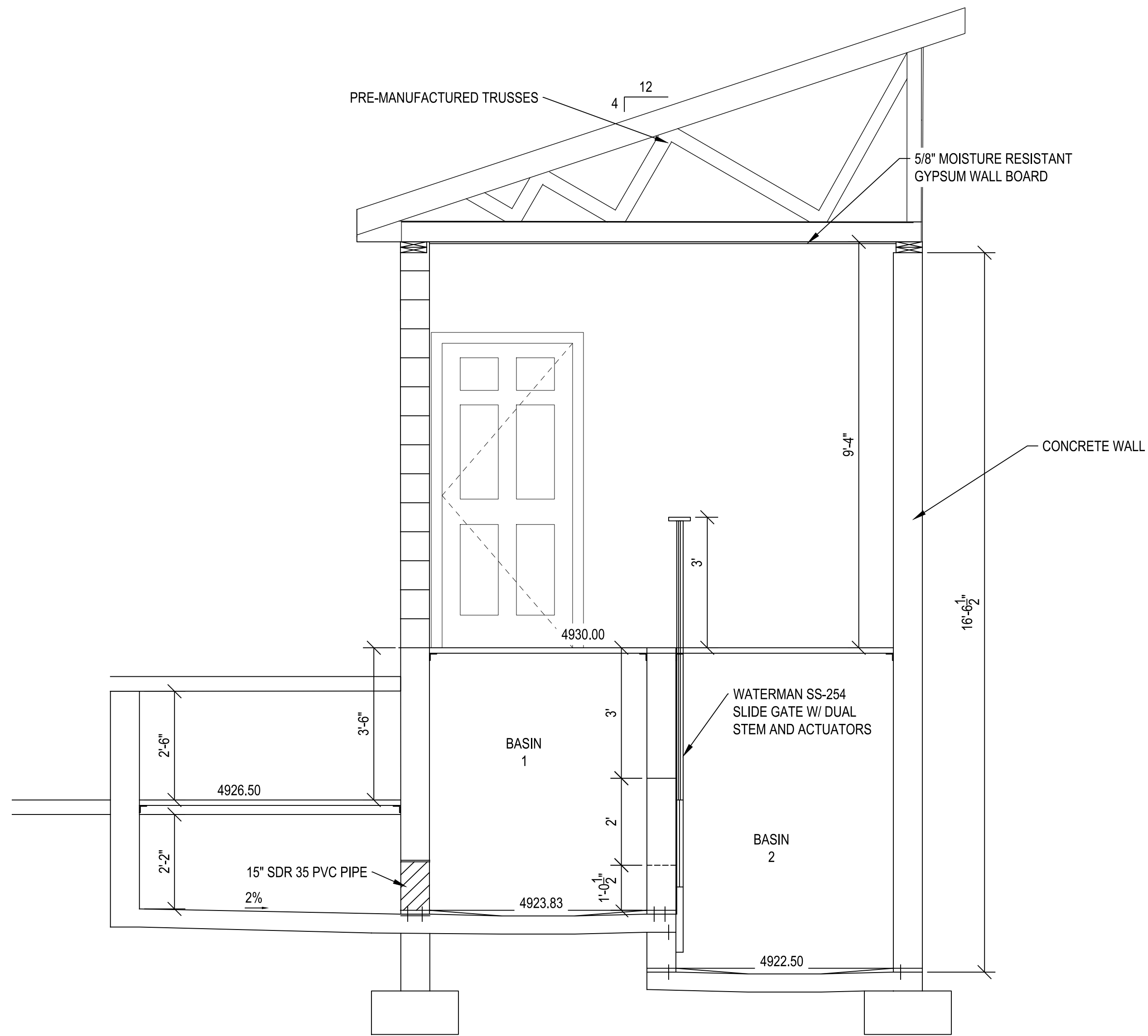
OGDEN CANYON

OGDEN, UTAH

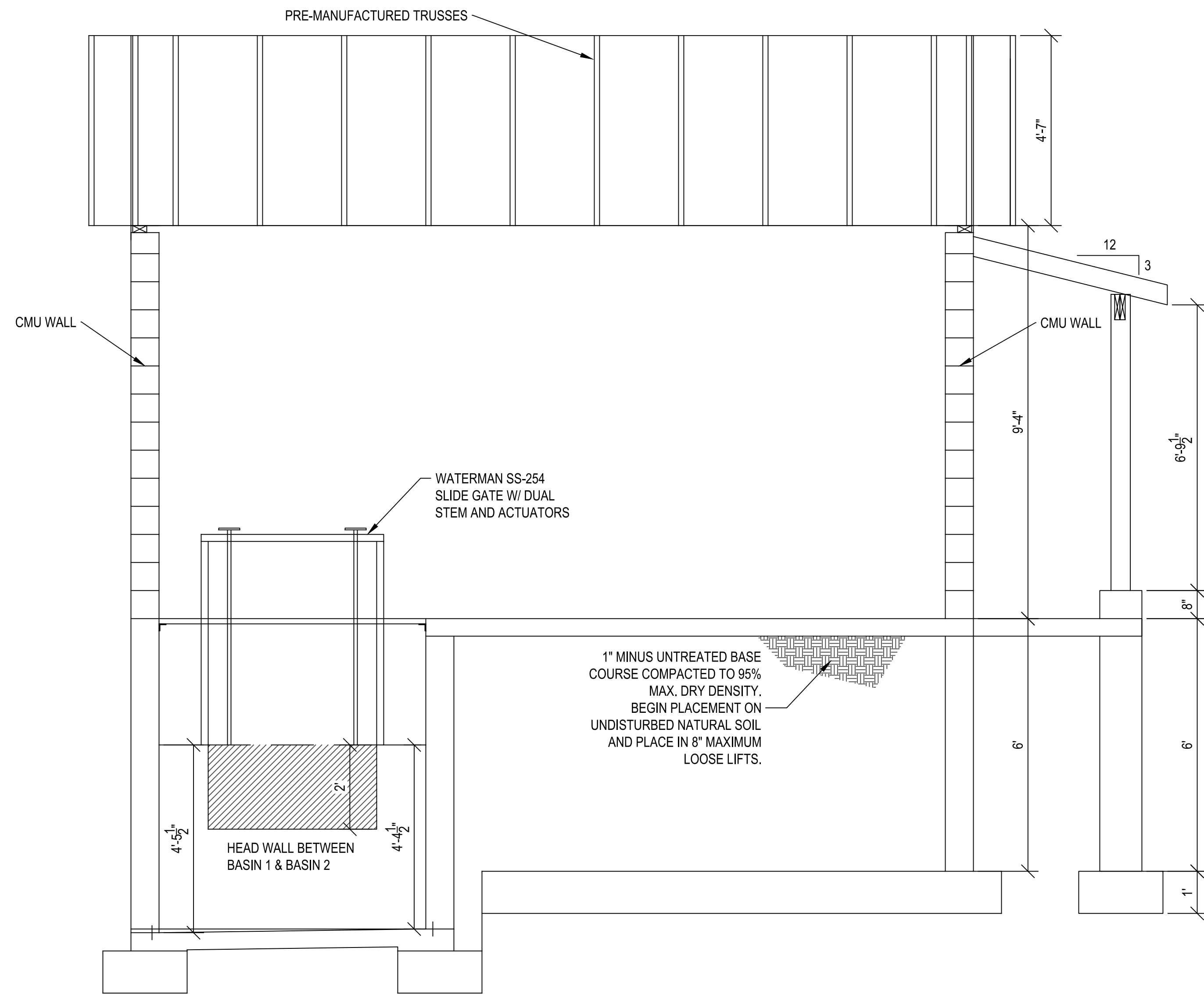
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PROJECT NUMBER 16111C	
SHEET 13	OF 21
SHEET NUMBER A201	

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A BUILDING SECTION A
A301 SCALE: 1/2" = 1'-0"



B BUILDING SECTION B
A301 SCALE: 1/2" = 1'-0"

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ARCHITECTURAL SECTIONS

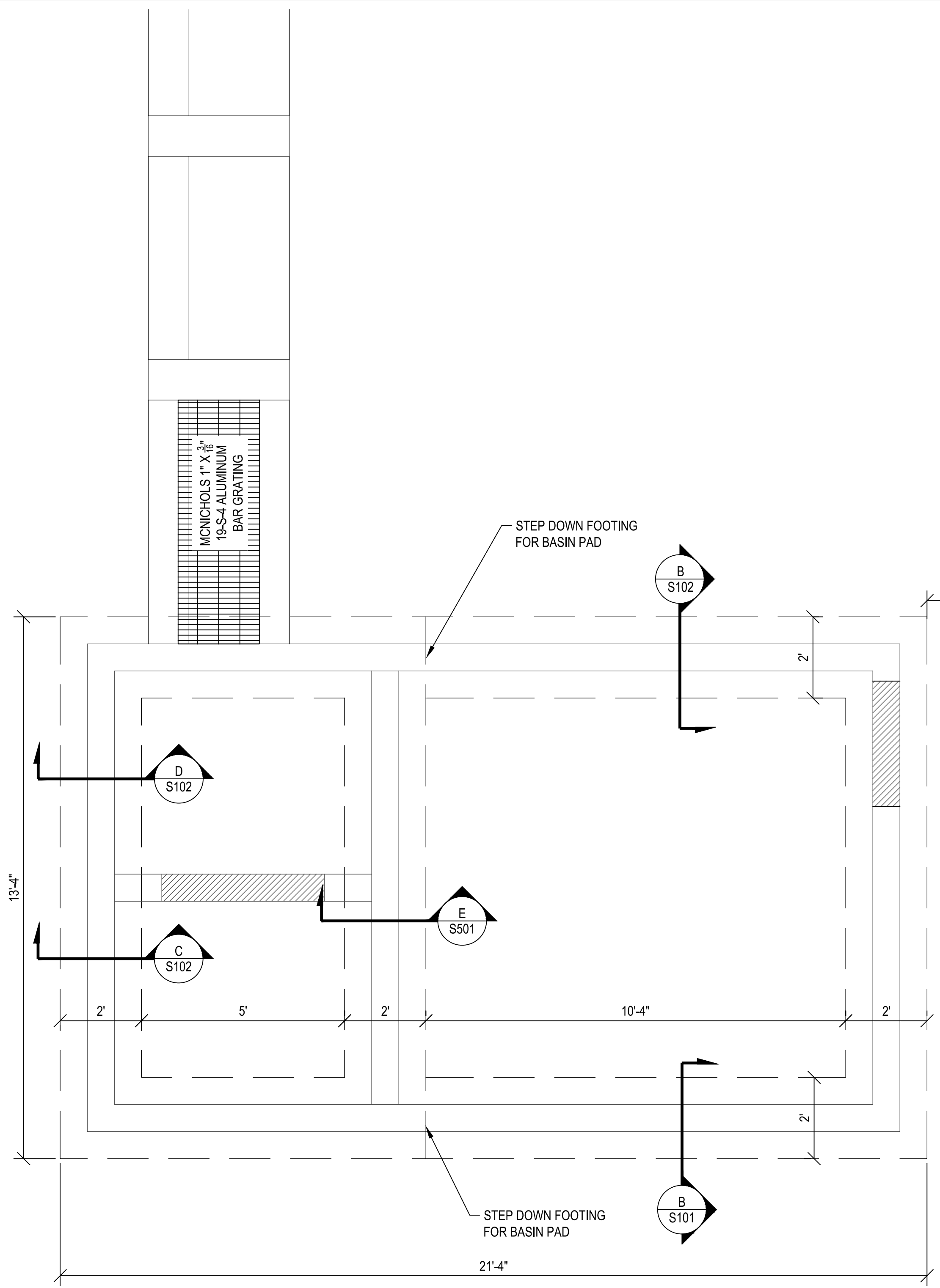
OGDEN CANYON

OGDEN, UTAH

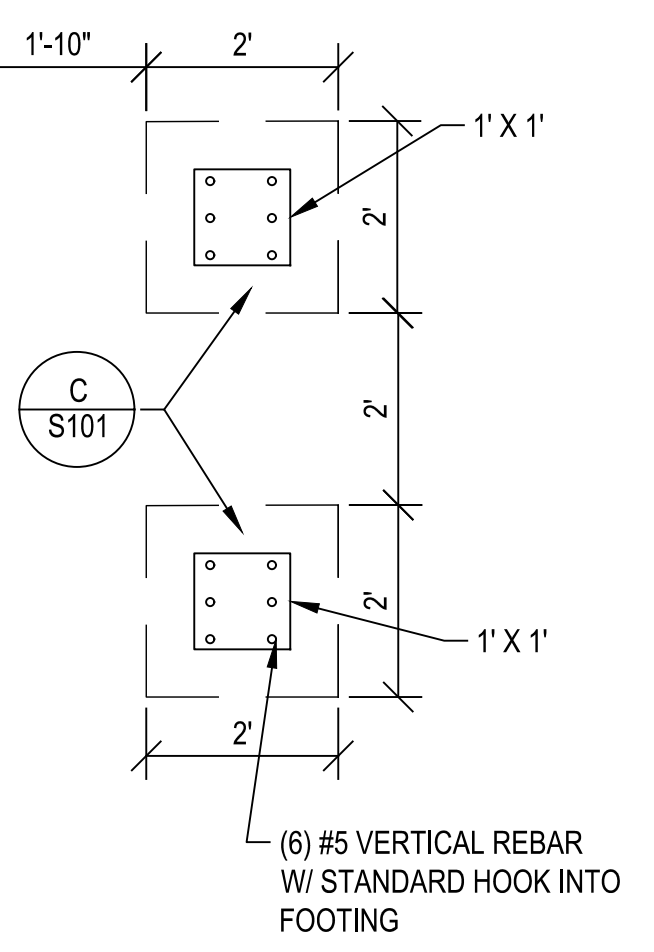
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PROJECT NUMBER	16111C	
SHEET	15	OF 21
SHEET NUMBER	A301	

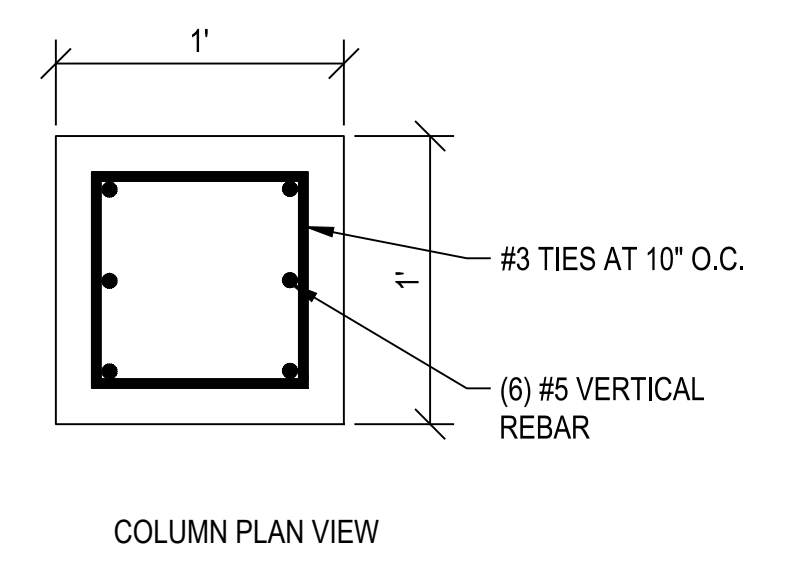
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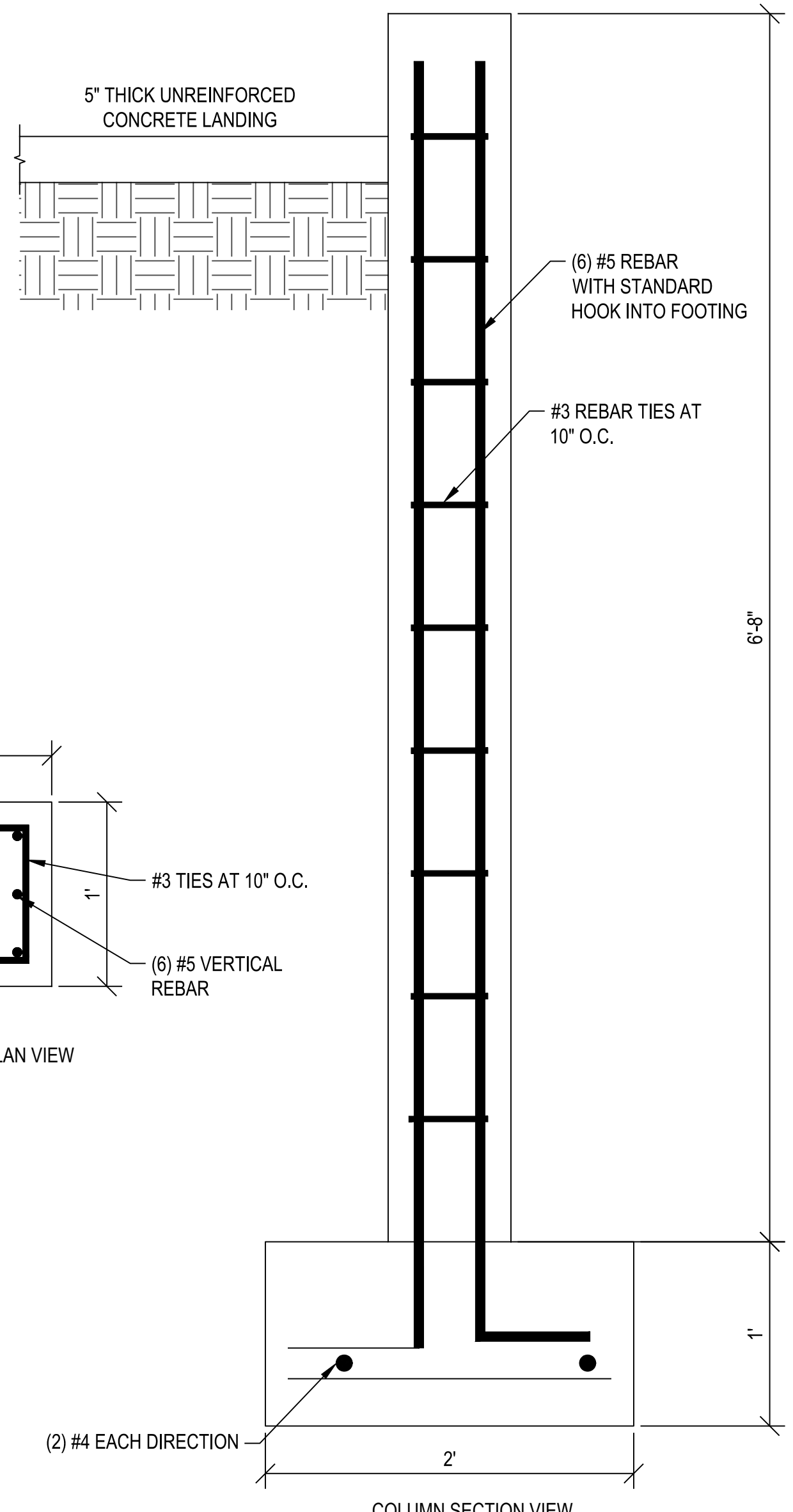
A FOOTING PLAN
S101 SCALE: 1/2" = 1'-0"



B FOOTING AND WALL DETAIL
S101 SCALE: 1/2" = 1'-0"



COLUMN PLAN VIEW



C OVERHANG SPOT FOOTING
S101 SCALE: 1 1/2" = 1'-0"

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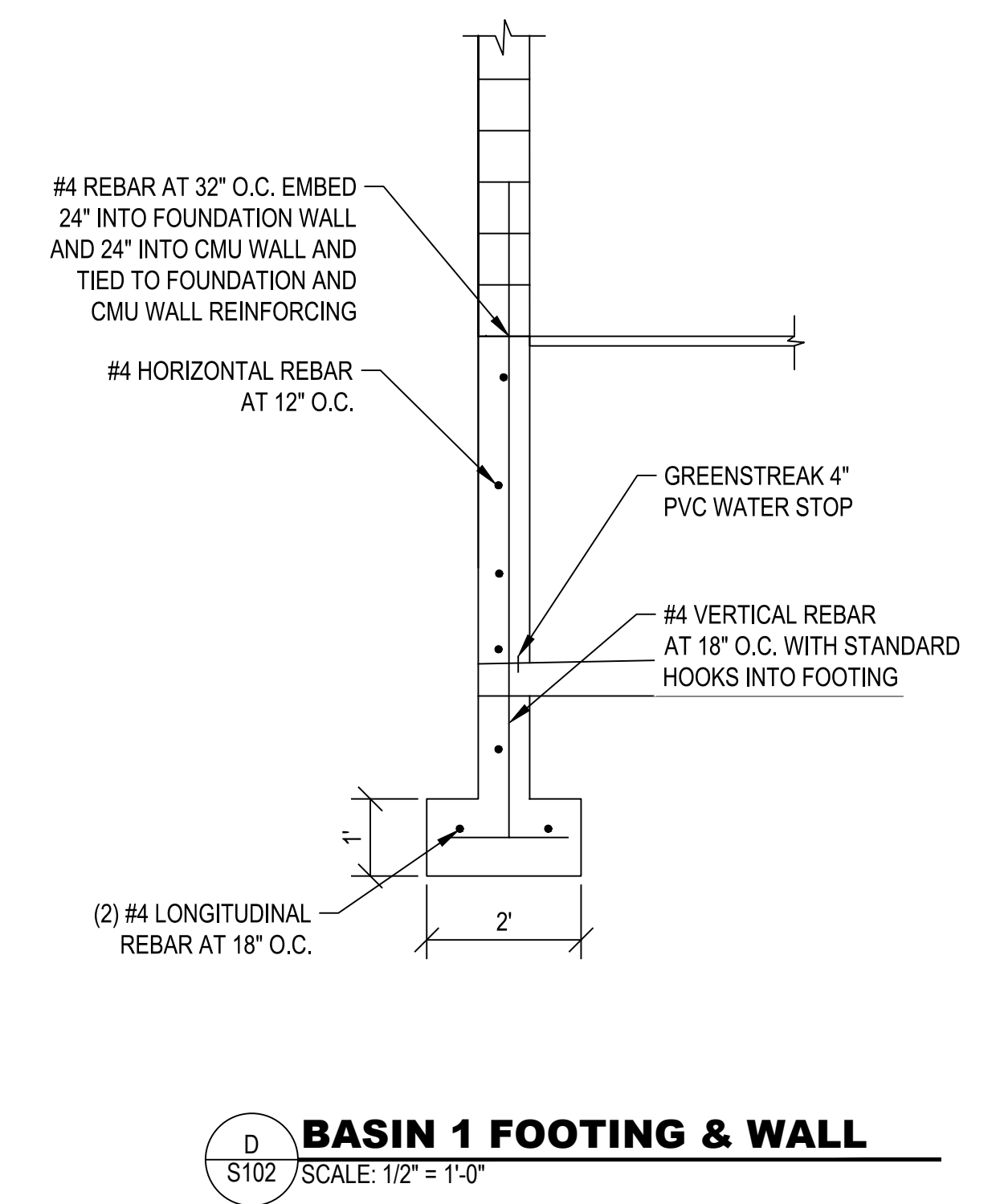
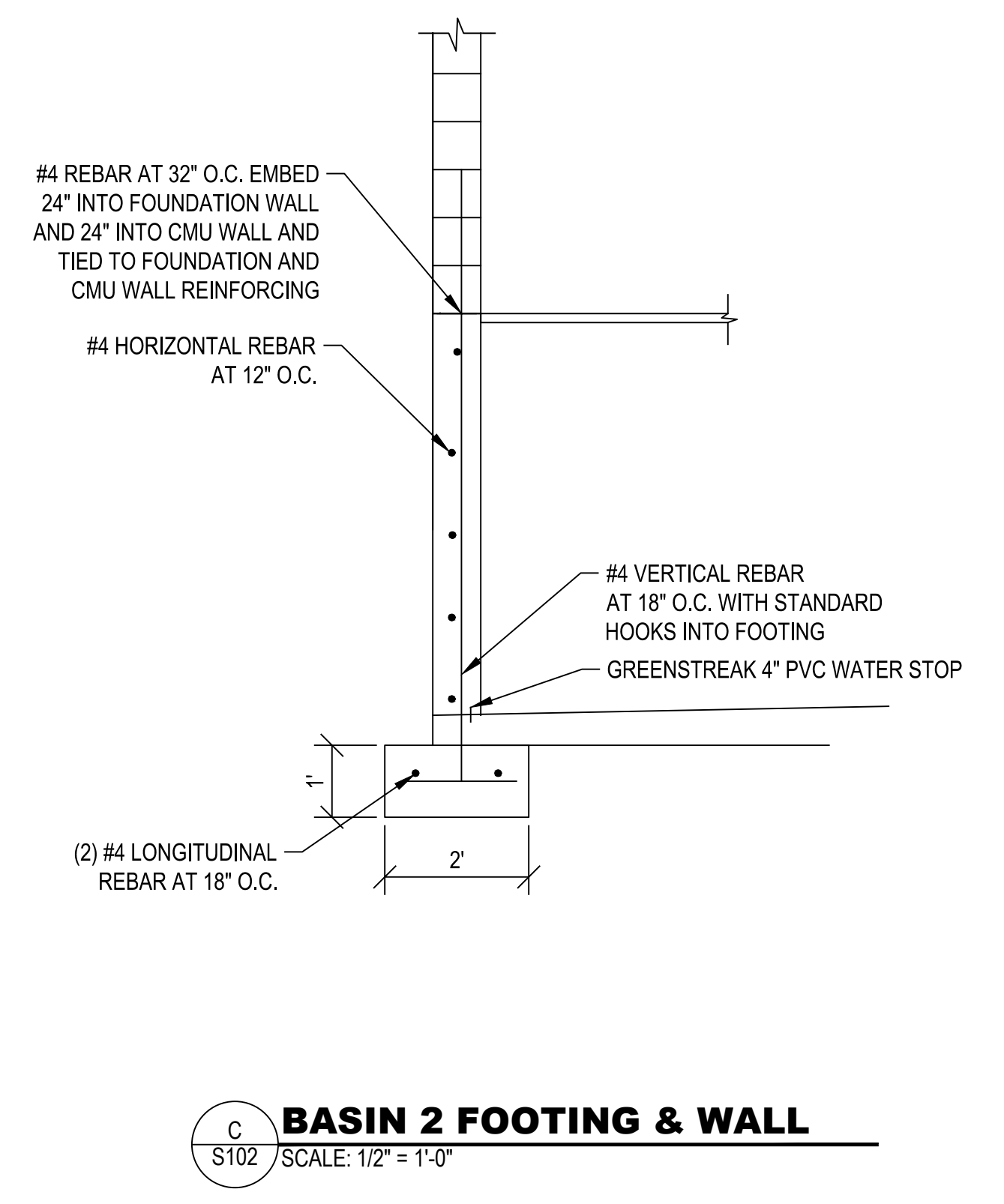
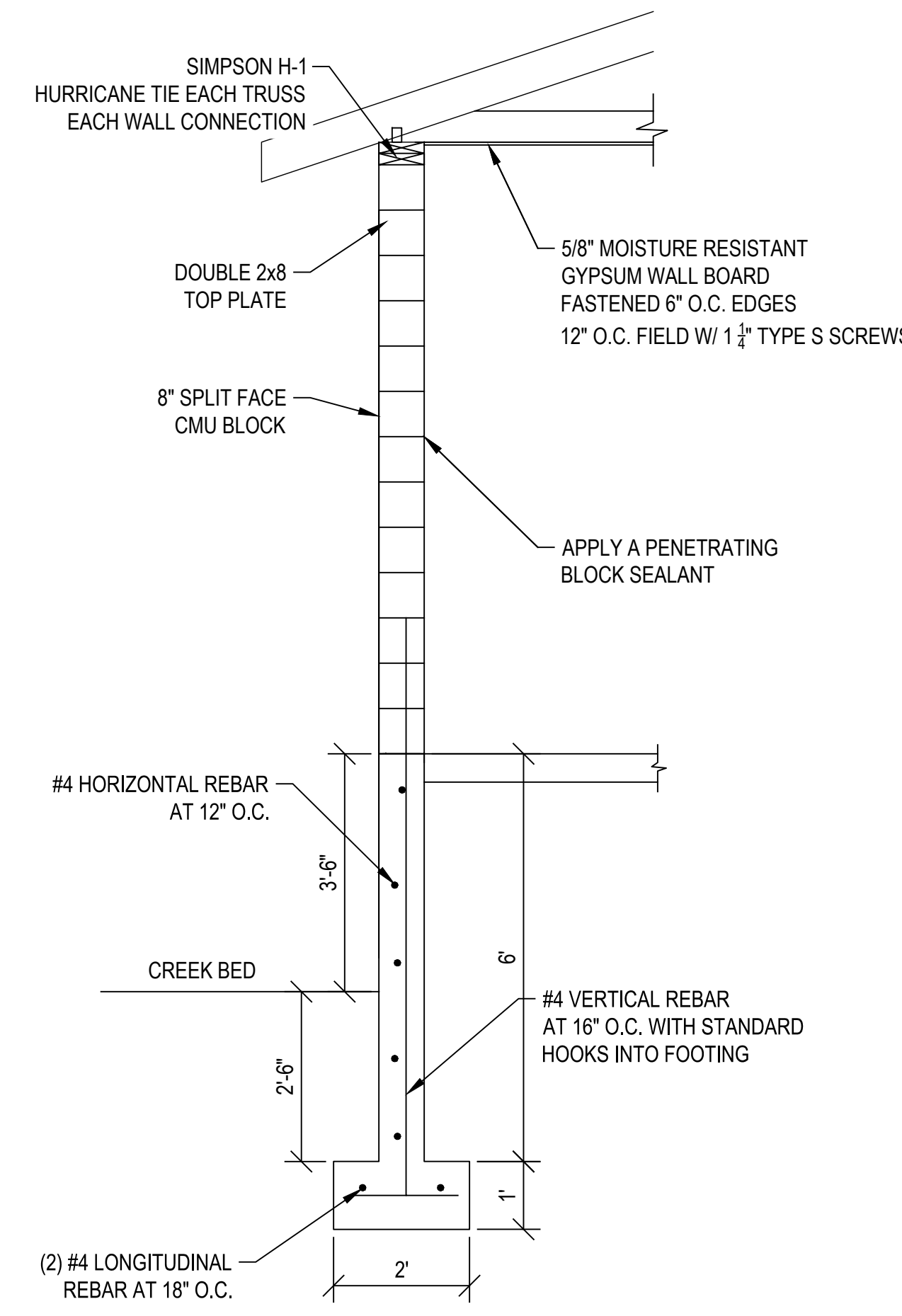
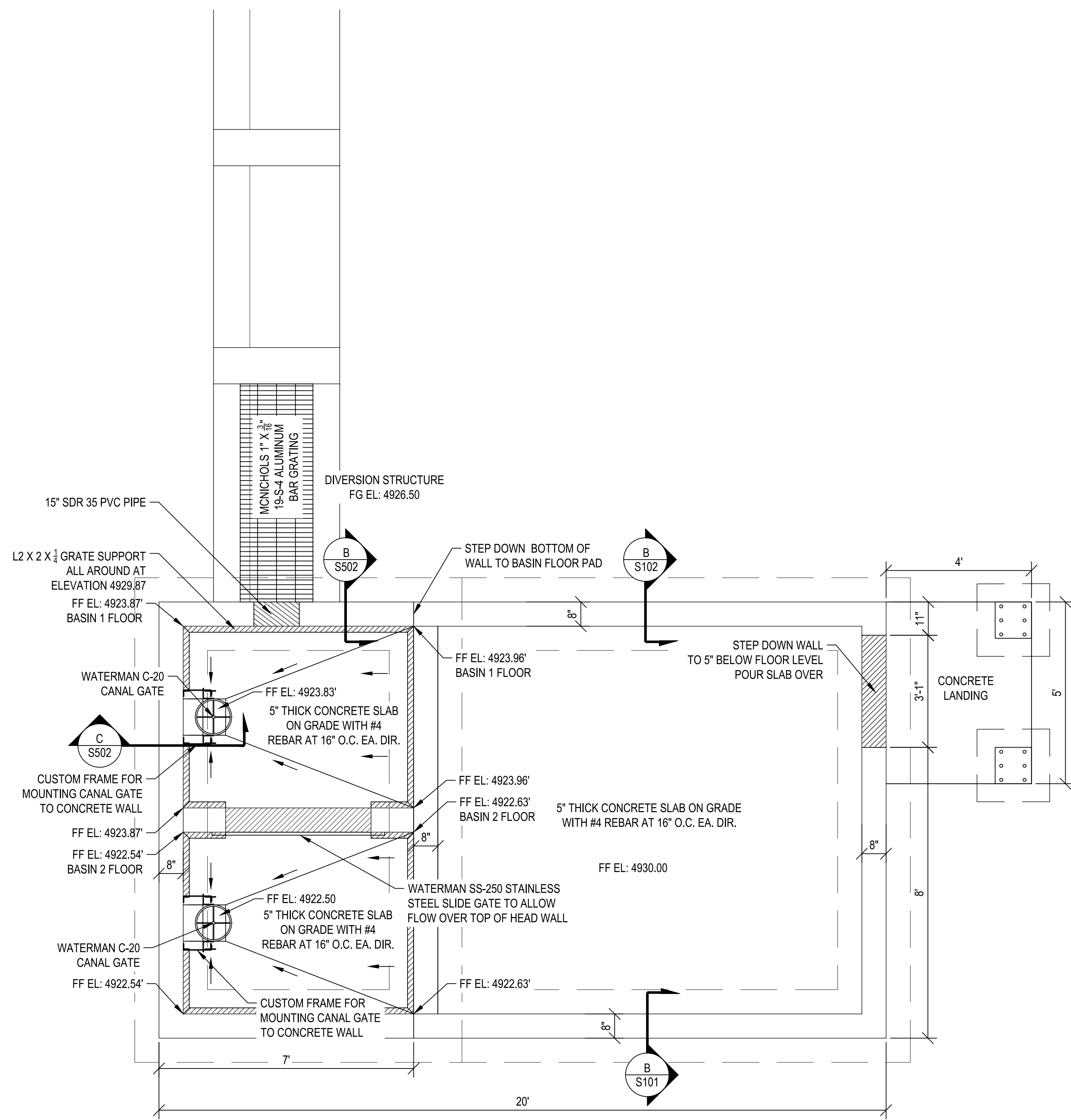
OGDEN CITY
WHEELER CREEK DIVERSION
FOOTING PLAN

OGDEN CANYON

OGDEN, UTAH

PROJECT NUMBER	16111C	
SHEET	16	OF 21
SHEET NUMBER	S101	

File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Structure Design\S102-FOUNDATION PLAN.dwg Apr 01, 2019 - 2:54pm



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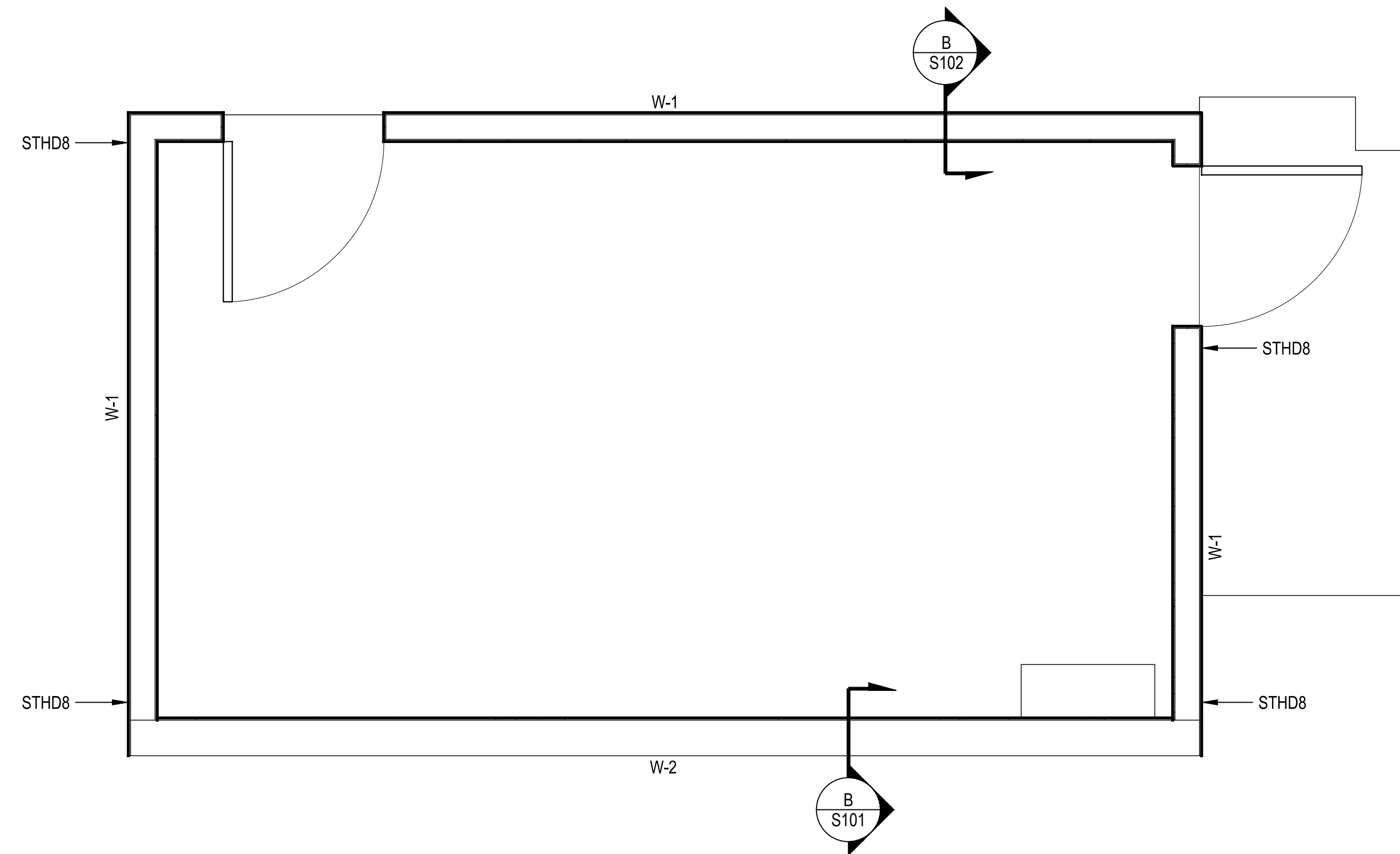
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OGDEN CITY
WHEELER CREEK DIVERSION
FOUNDATION PLAN

OGDEN CANYON
OGDEN, UTAH

PROJECT NUMBER	16111C	
SHEET	17	OF 21
SHEET NUMBER	S102	

File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Structure Design\S103 - BRACED WALL PLAN.dwg Apr 01, 2019 - 2:54pm



BRACED WALL SCHEDULE	
W-1	REINFORCED CMU WALL WITH #4 VERTICAL REBAR AT 32" O.C. AND #4 HORIZONTAL REBAR AT 48" O.C.. GROUT ALL CELLS CONTAINING REINFORCEMENT
W-2	REINFORCED CONCRETE WALL WITH #5 VERTICAL REBAR AT 12" O.C. AND #4 HORIZONTAL REBAR AT 12" O.C.

A
S103
BRACED WALL PLAN
SCALE: 1/2" = 1'-0"

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BRACED WALL PLAN

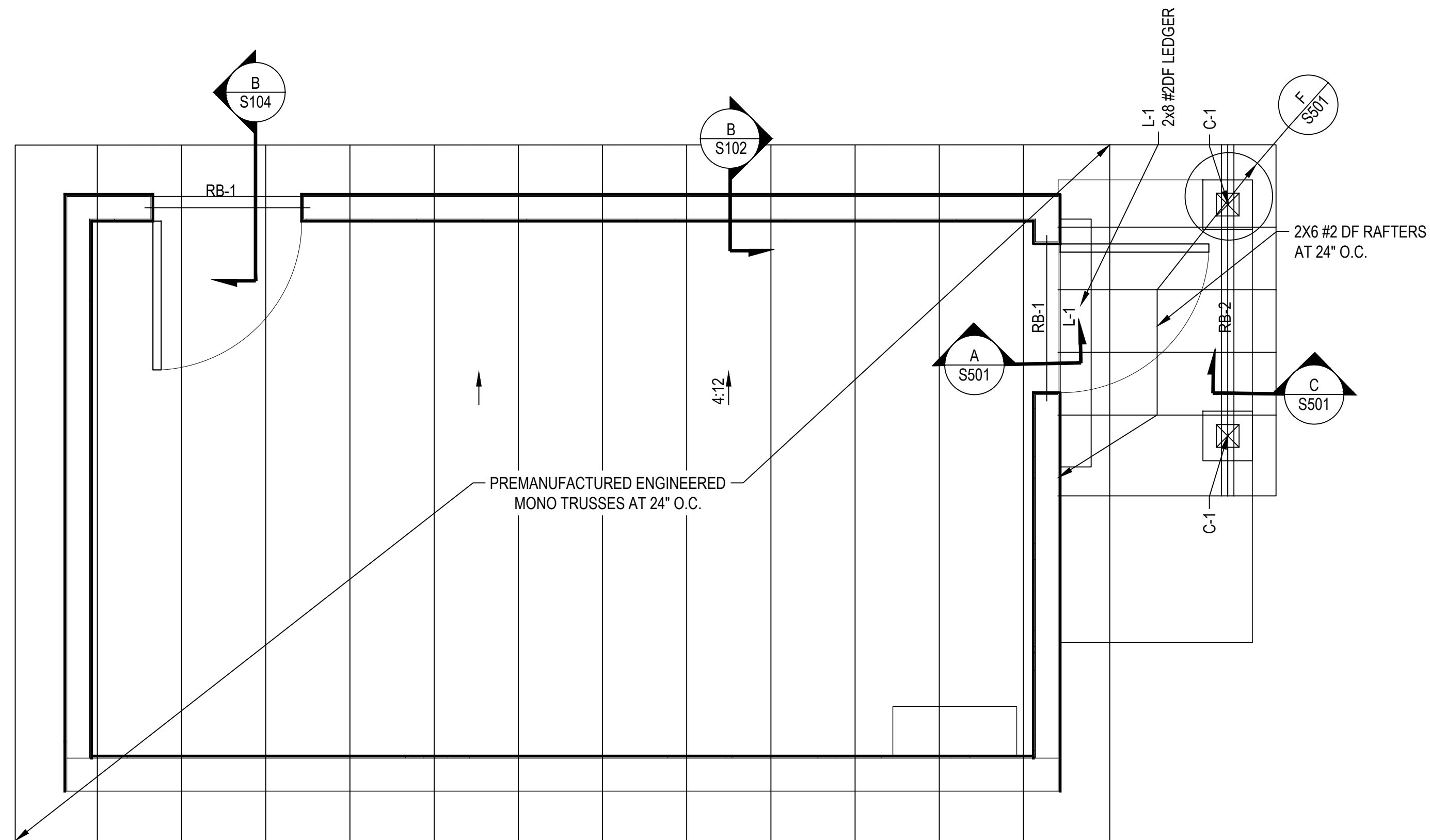
OGDEN CANYON

OGDEN, UTAH

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PROJECT NUMBER	16111C	
SHEET	18	OF 21
SHEET NUMBER	S103	

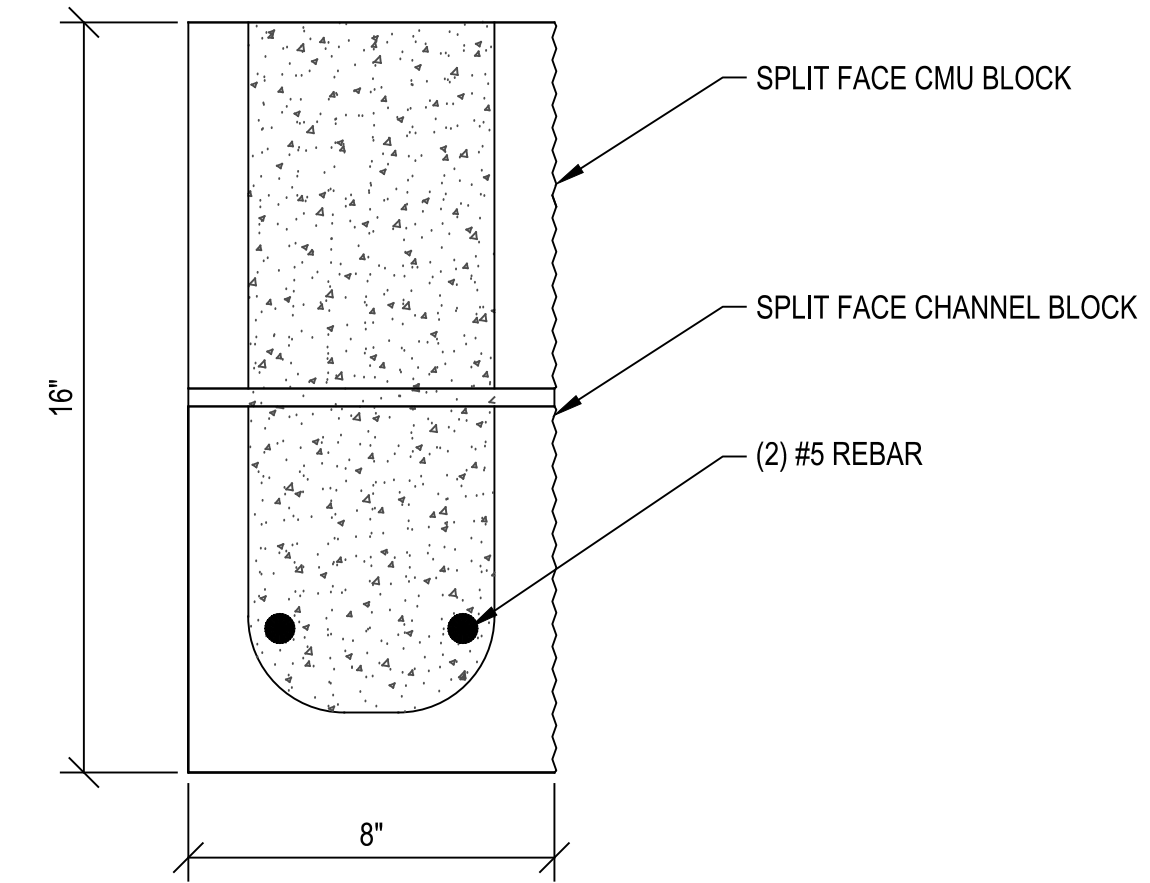
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A
S104 **ROOF FRAMING PLAN**
SCALE: 1/2" = 1'-0"

BEAM SCHEDULE	
RB-1	MASONRY LINTEL
RB-2	(2) 2x8 #2DF
L-1	2x8 #2DF LEDGER

COLUMN SCHEDULE	
C-1	6X6 #2DF



B
S104 **RB-1 MASONRY LINTEL DETAIL**
SCALE: 3" = 1'-0"

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OGDEN CITY
WHEELER CREEK DIVERSION
ROOF FRAMING PLAN

OGDEN CANYON

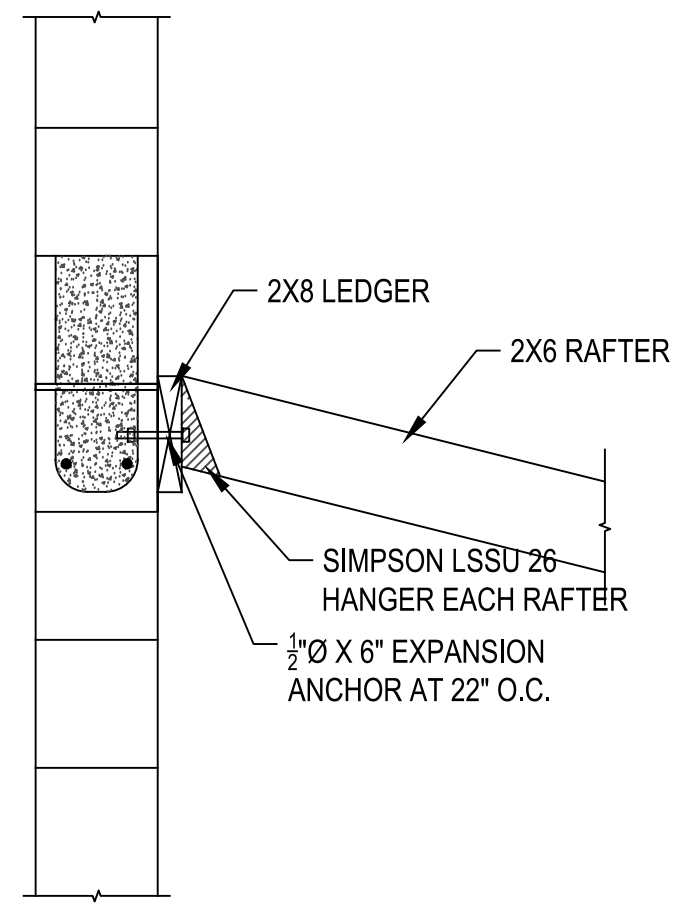
OGDEN, UTAH

PROJECT NUMBER: 16111C

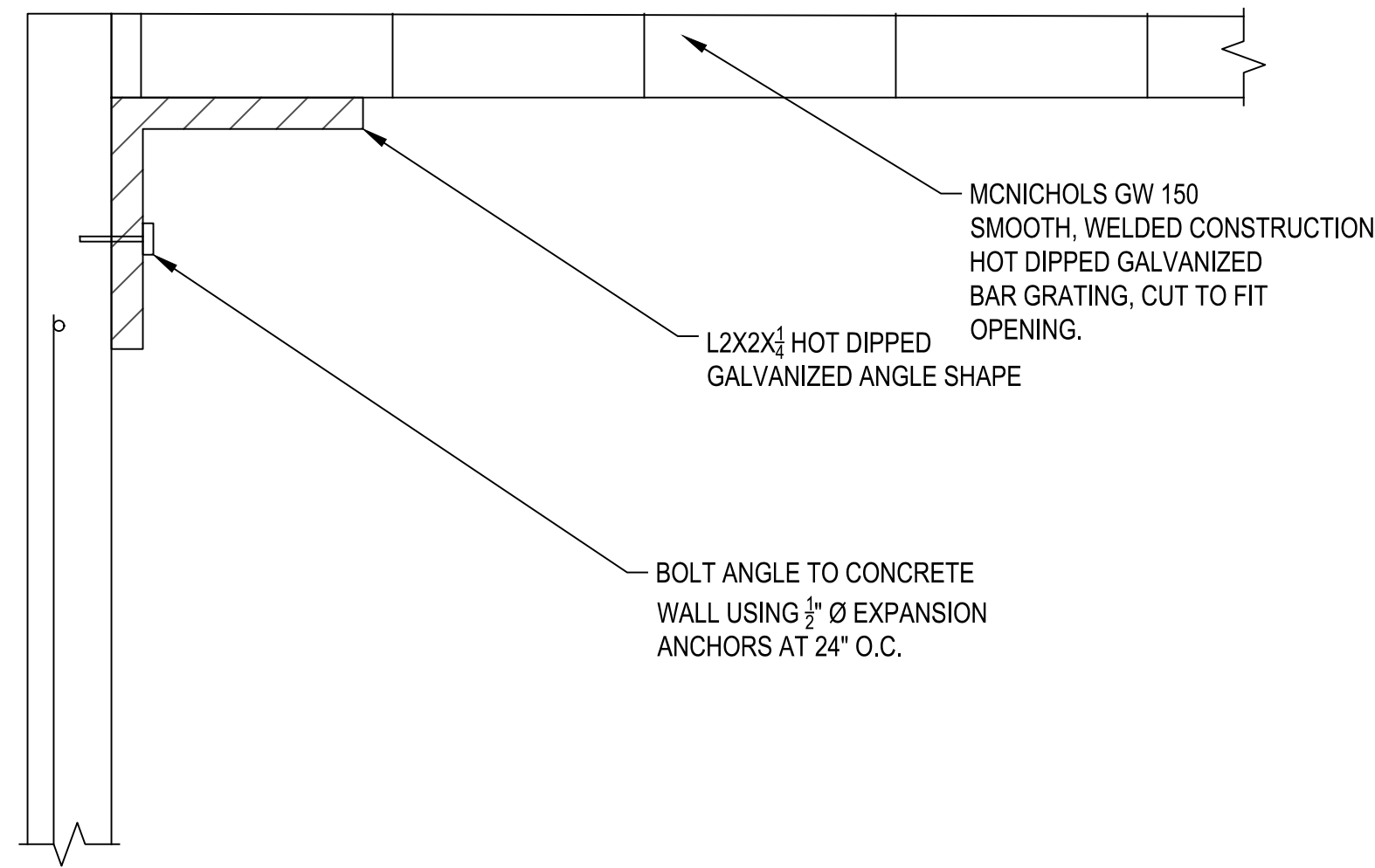
SHEET: 19 OF 21

SHEET NUMBER: S104

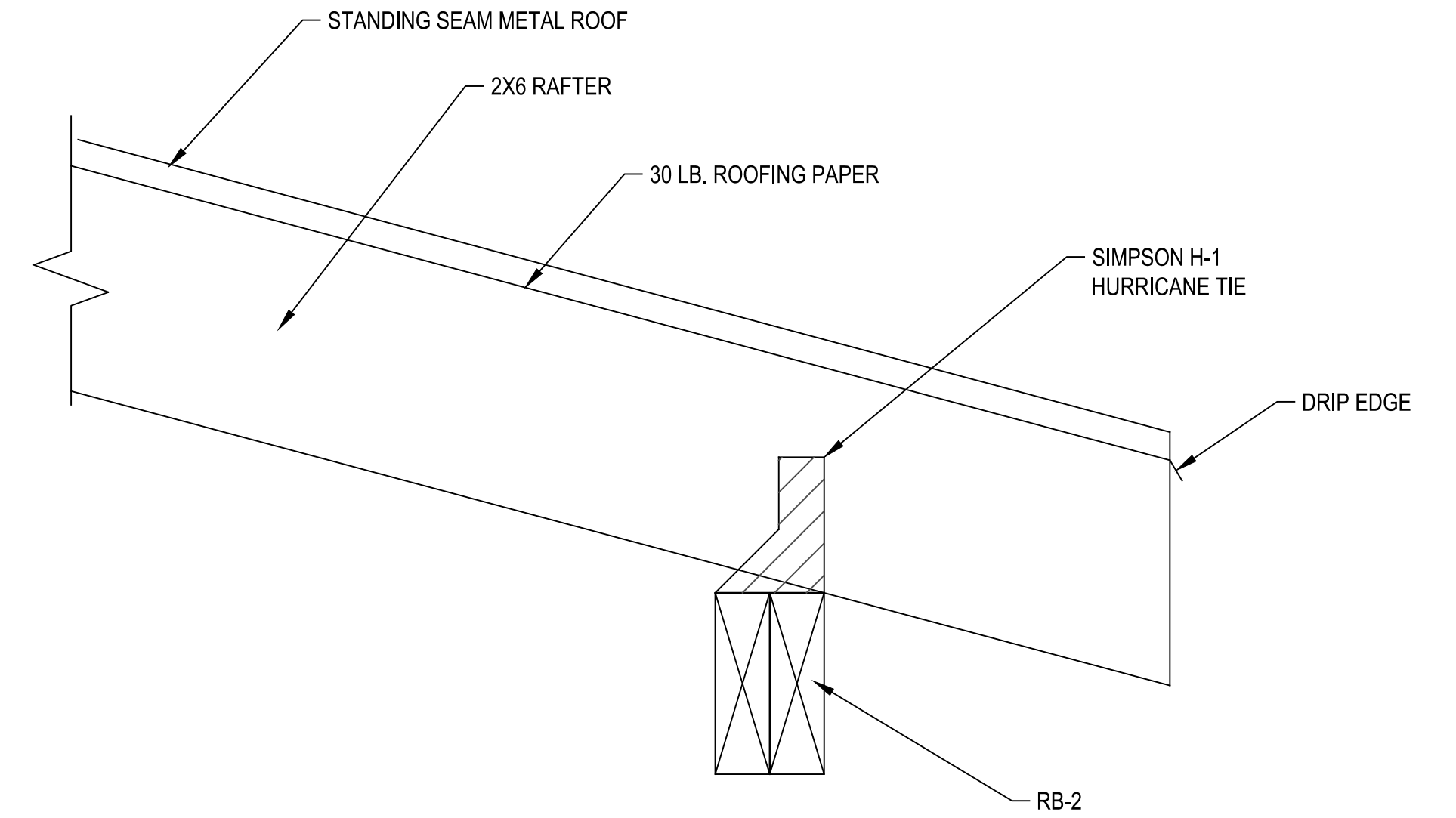
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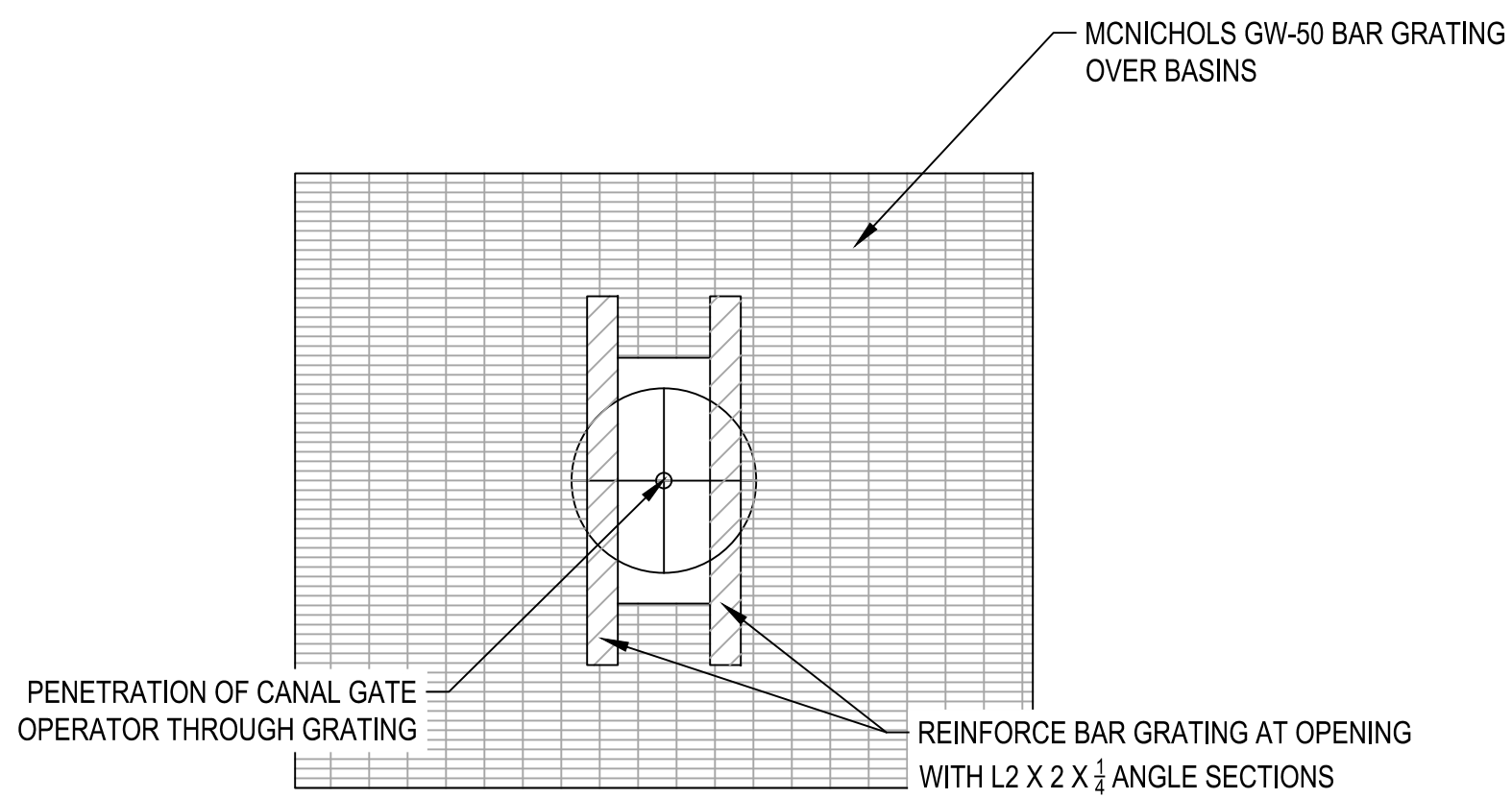
A LEDGER CONNECTION DETAIL
S502 SCALE: 1" = 1'-0"



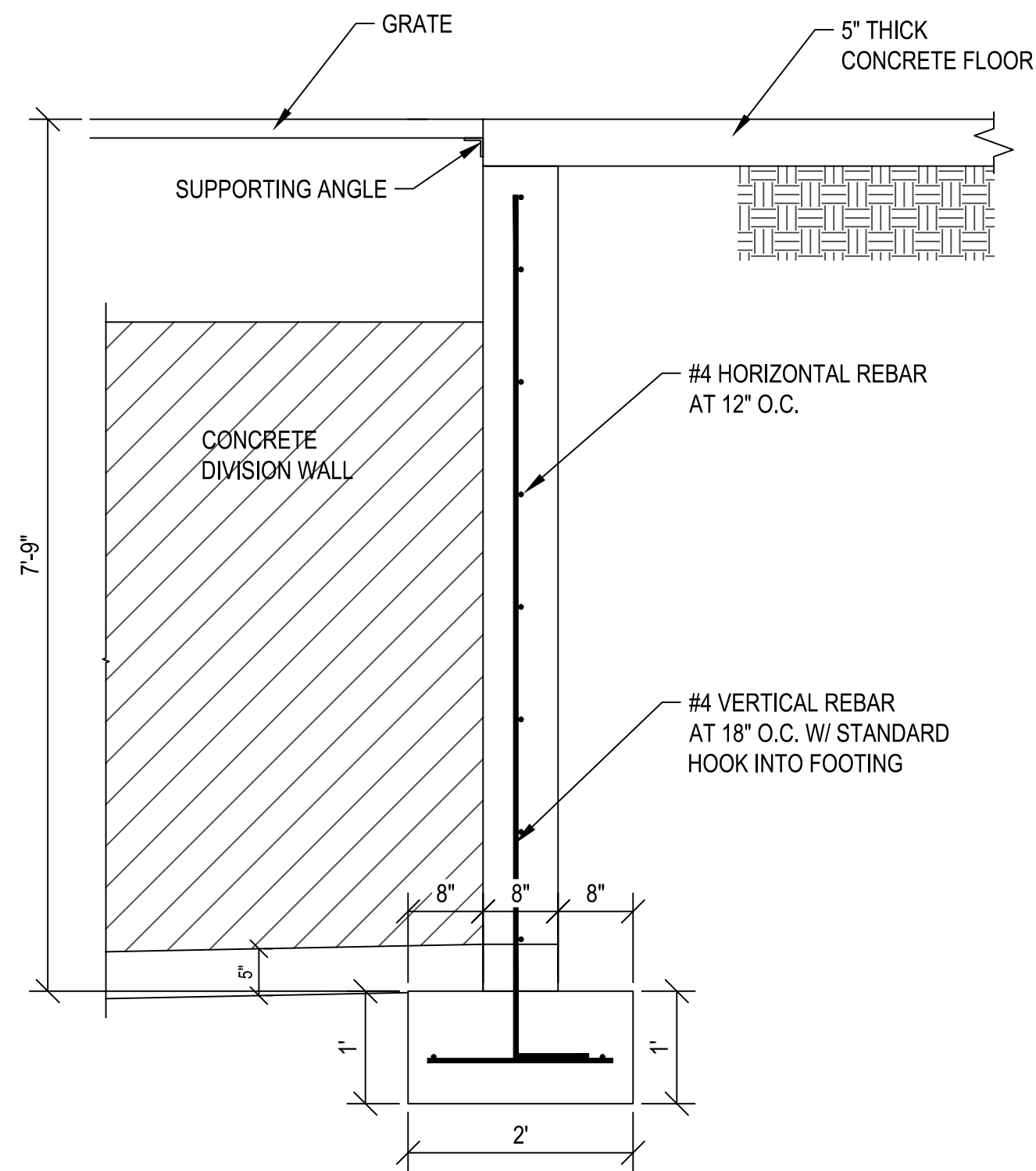
B BAR GRATE CONNECTION DETAIL
S501 SCALE: 3/4" = 1'-0"



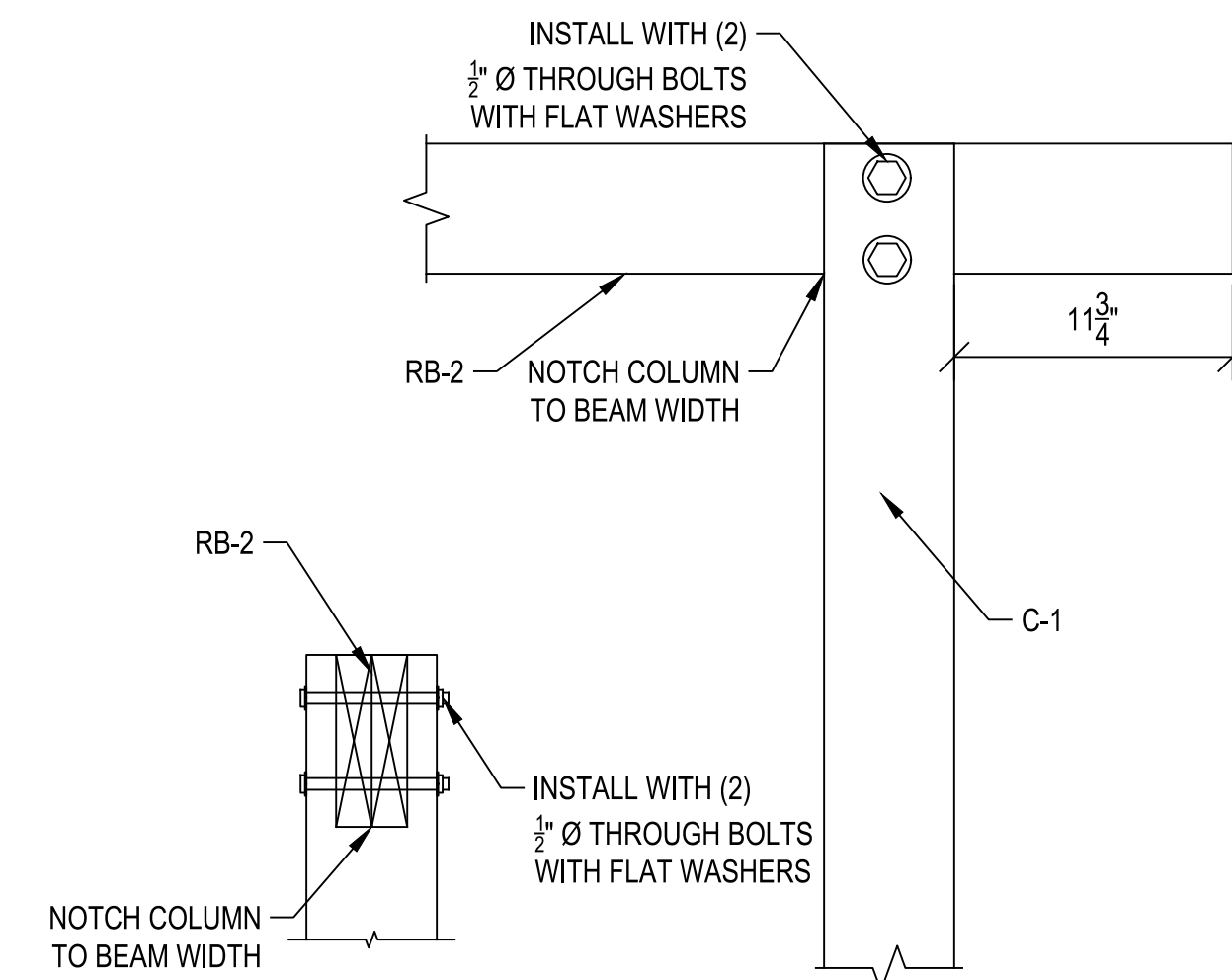
C RAFTER TO BEAM CONNECTION
S501 SCALE: 1-1/2" = 1'-0"



D GRATE PENETRATION DETAIL
S502 SCALE: 1" = 1'-0"



E CONCRETE WALL DETAIL
S501 SCALE: 3/4" = 1'-0"



F BEAM TO COLUMN CONNECTION
S501 SCALE: 1-1/2" = 1'-0"

File Path: P:\16111C Ogden City-Wheeler Creek Diversion\Drawings\Structure Design\S501 - STRUCTURAL DETAILS.dwg Apr 01, 2019 - 2:55pm

NO.	DESCRIPTION	DATE

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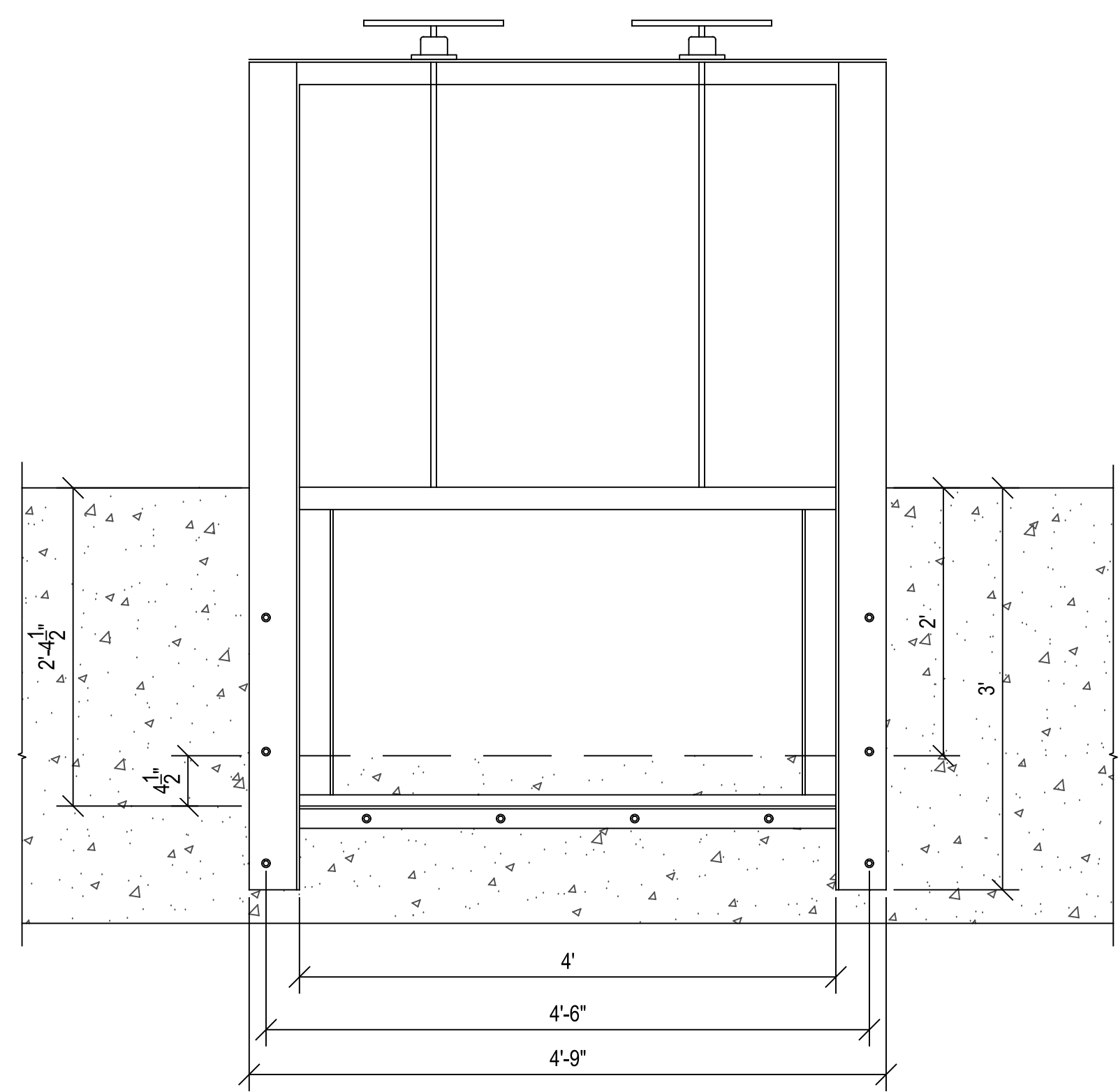
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WHEELER CREEK DIVERSION
STRUCTURAL DETAILS

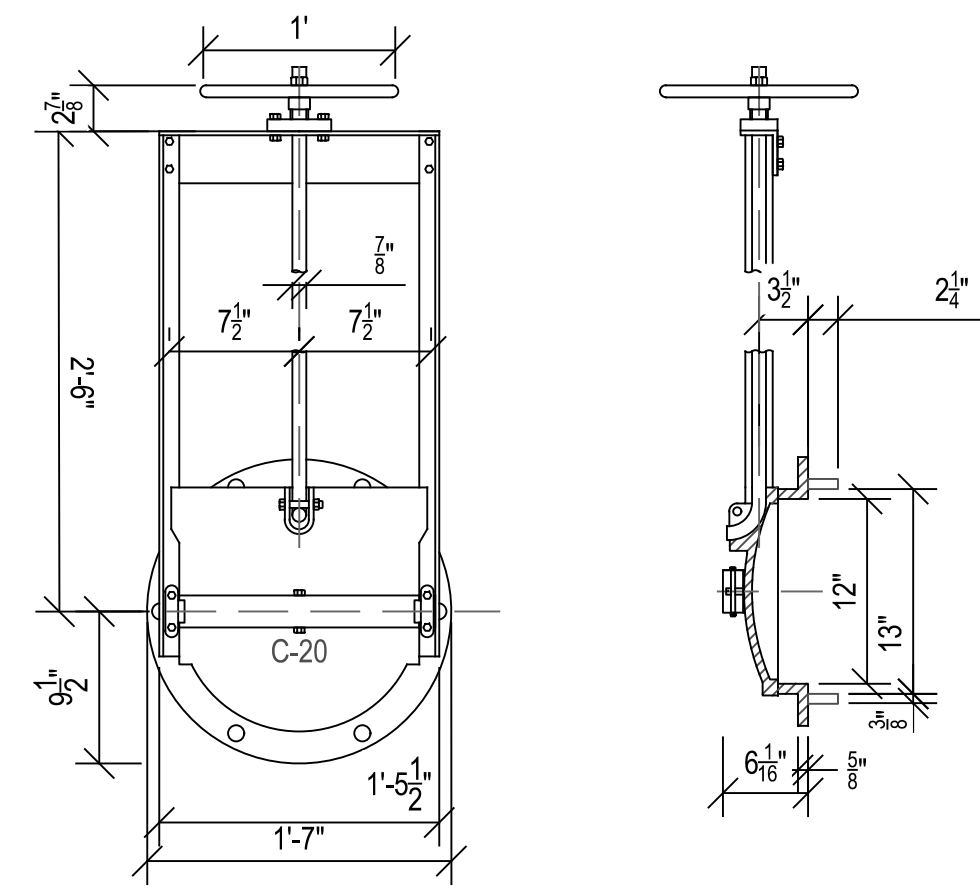
OGDEN CANYON
OGDEN, UTAH

PROJECT NUMBER: 16111C
SHEET: 20 OF 21
SHEET NUMBER: S501

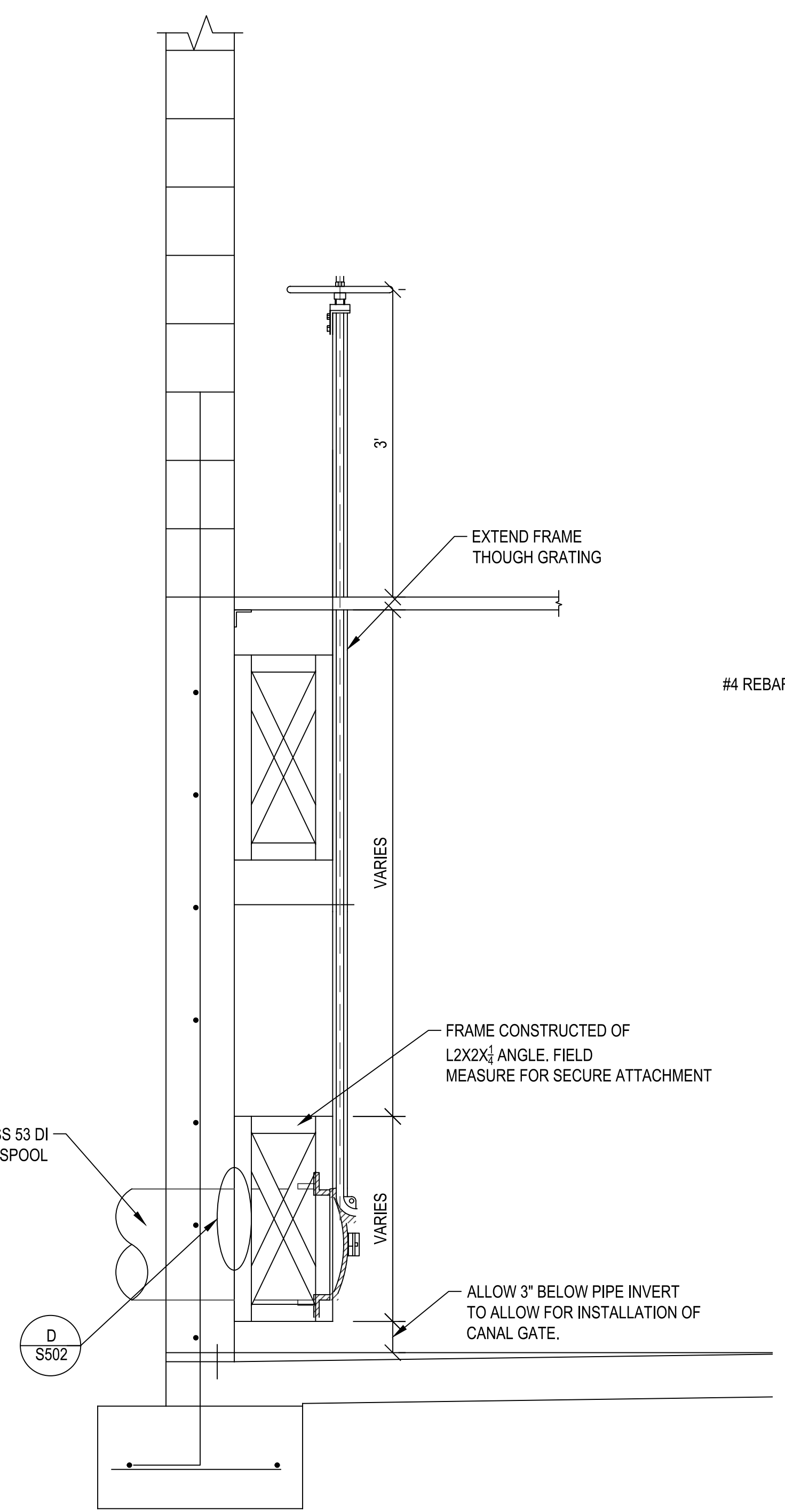
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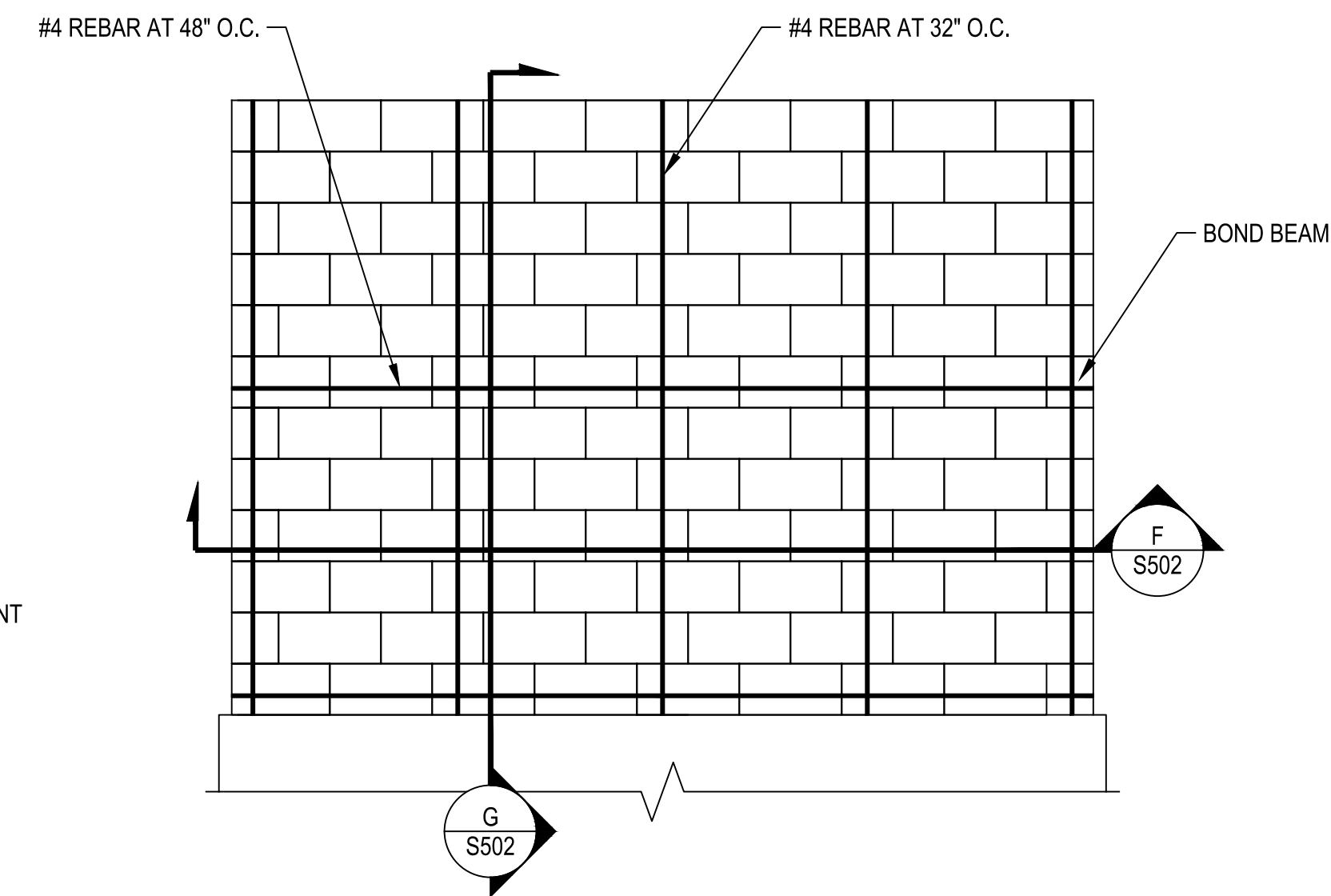
A WATERMAN SS-254-1 SLIDE WEIR GATE
S502 SCALE: 1" = 1'-0"



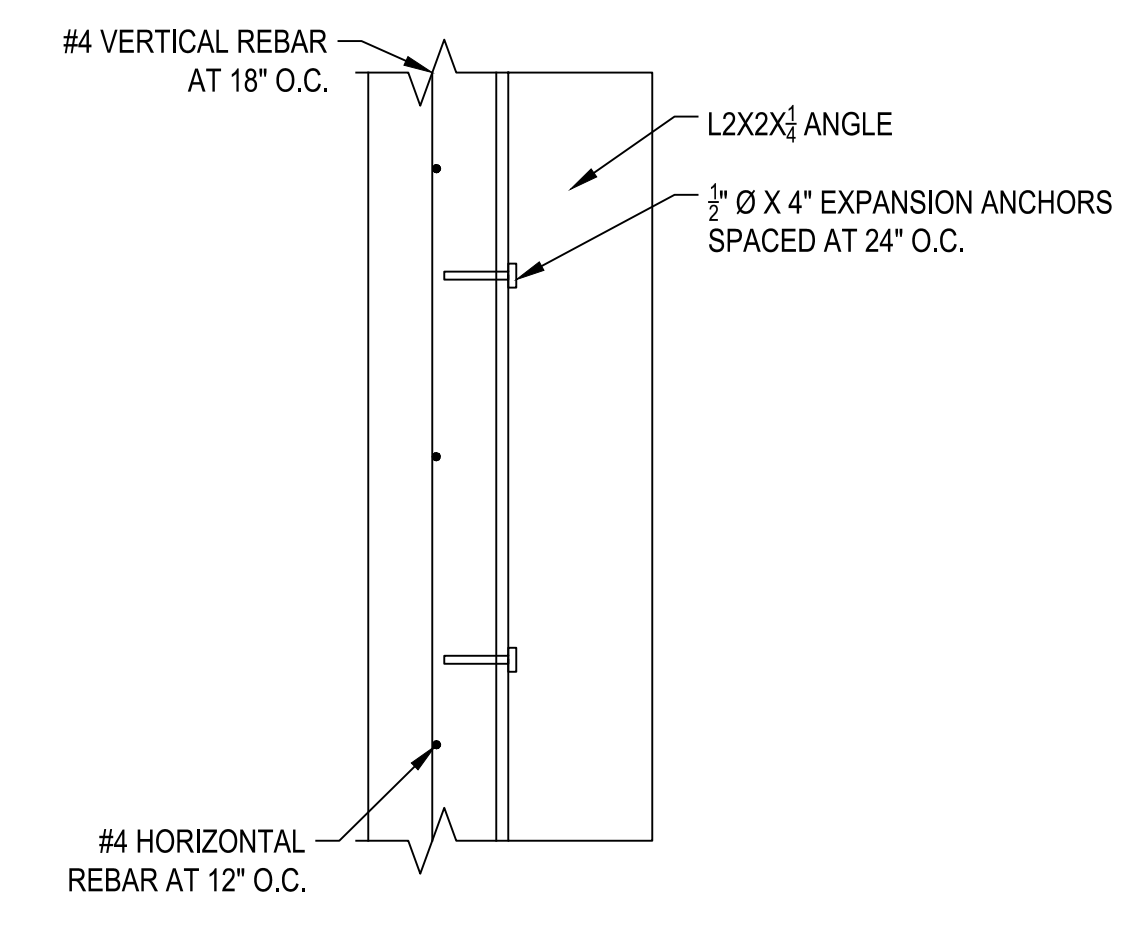
B DETAIL FOR WATERMAN C-20 CANAL GATE
S502 SCALE: 1" = 1'-0"



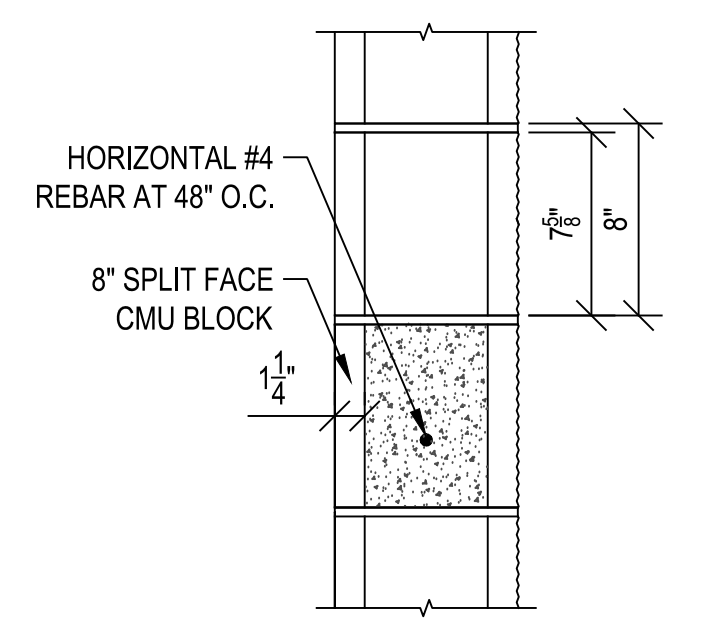
C CANAL GATE CONNECTION
S502 SCALE: 1" = 1'-0"



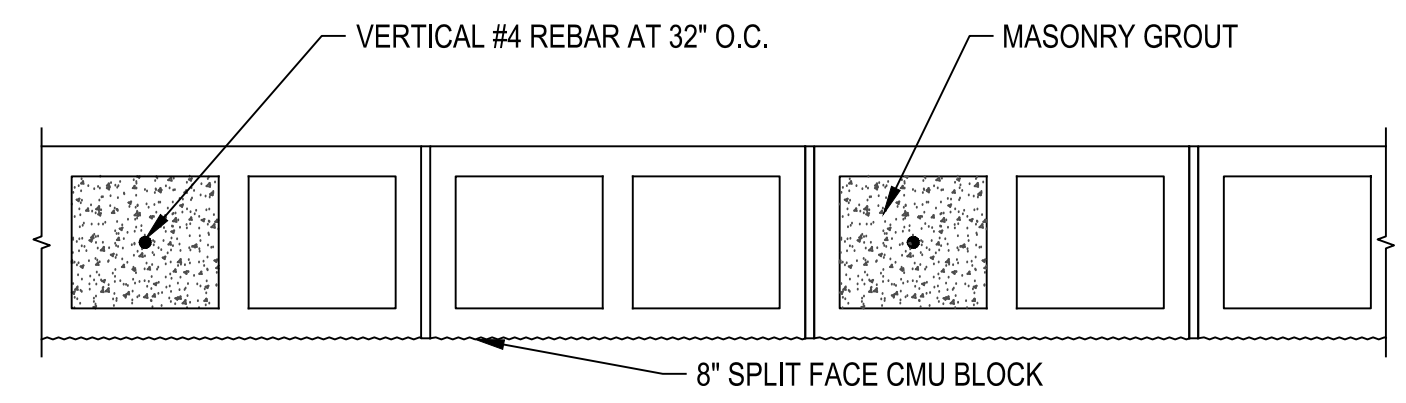
E REINFORCED CMU WALL ELEVATION
S502 SCALE: 1/2" = 1'-0"



D FRAME TO WALL CONNECTION
S502 SCALE: 1" = 1'-0"



G MASONRY WALL DETAIL SECTION
S502 SCALE: 1-1/2" = 1'-0"



F MASONRY WALL DETAIL (PLAN)
S502 SCALE: 1-1/2" = 1'-0"

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STRUCTURAL DETAILS

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OGDEN, UTAH

PROJECT NUMBER 16111C	
SHEET 21	OF 21
SHEET NUMBER S502	