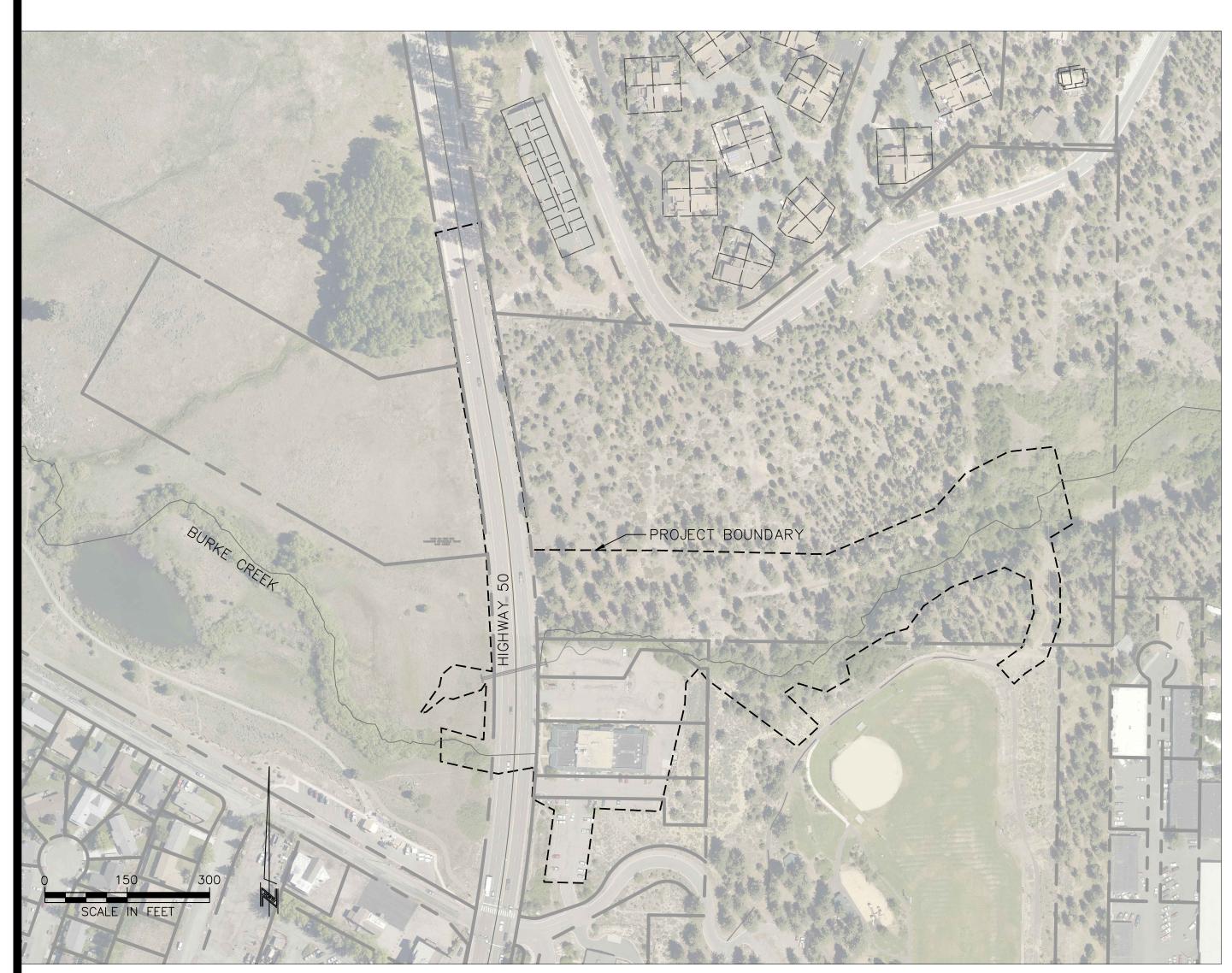
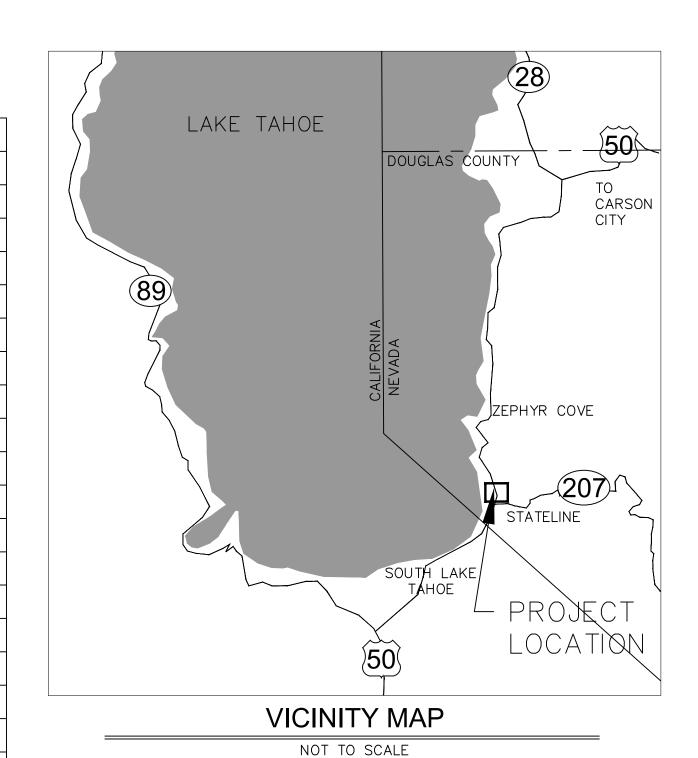
# NEVADA TAHOE CONSERVATION DISTRICT BURKE CREEK HIGHWAY 50 CROSSING AND REALIGNMENT PROJECT - PHASE 1

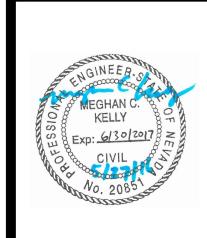
IN THE COUNTY OF DOUGLAS EIP # 01.02.03.0001



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TITLE JRKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT

# PLAN

SCALE: 1" = 150'















# ENGINEER:





MEGHAN C. KELLY, P.E.
REGISTERED CIVIL ENGINEER
STATE OF NEVADA, NO. 20851
NEVADA TAHOE CONSERVATION DISTRICT
400 DORLA CT.
ZEPHYR COVE, NV 89448
(775) 586-1610

RECORD DRAWINGS 1/20/17

DESIGNED/DRAWN
MK/MK
CHECKED
MG
DATE
05/13/2016
SCALE
AS SHOWN
PROJECT BCC
CLIEET

HEET

1
1 OF 2

LUMP SUM

MANHOLE

MAXIMUM

CABLE TELEVISION

NATURAL GAS

STORM DRAIN

ELECTRIC

**SEWER** 

WATER

PHONE

USA DIGS

- CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON SITE SHOWING "AS CONSTRUCTED" CHANGES. UPON COMPLETION, CONTRACTOR SHALL SUPPLY NDOT, DOUGLAS COUNTY, AND NTCD A SET OF "AS BUILT" PLANS. SEE SPECIAL PROVISIONS.
- MOBILIZATION/STAGING AND STORAGE AREAS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPS.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY BMP MEASURES AT LOCATIONS WHERE NEEDED TO CONTROL EROSION AND WATER POLLUTION DURING THE CONSTRUCTION OF THE PROJECT. THE BMP MEASURES SHALL REMAIN IN PLACE AND SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION FOR THE DURATION OF THE CONSTRUCTION. DURING CONSTRUCTION ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL, AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES. SILT FENCE OR SEDIMENT LOGS WILL BE REQUIRED AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS OR STAKED IN THE FIELD BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL MEET OR EXCEED TRPA REQUIREMENTS.
- ALL EXISTING VEGETATION SHALL BE PRESERVED UNLESS SPECIFICALLY IDENTIFIED BY THE ENGINEER FOR REMOVAL. BMP'S TO PROTECT VEGETATION SHALL BE INSTALLED BY THE CONTRACTOR IF REQUIRED BY TRPA. CONTRACTOR TO REVEGETATE ANY AREAS OUTSIDE THE DISTURBED AREA SHOWN ON THE PLANS WITH PLANTS APPROVED BY TRPA AT THEIR OWN EXPENSE.
- NTCD WILL PROVIDE ONE SET OF CONSTRUCTION STAKES AT NTCD'S EXPENSE. ADDITIONAL CONSTRUCTION STAKES WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. LIMITS FOR ALL ITEMS OF WORK SHALL BE STAKED IN THE FIELD BY THE ENGINEER. THESE LIMITS AND THE RESULTING TREATMENT LENGTH/AREAS MAY VARY FROM THOSE SHOWN ON THE DRAWINGS. PAYMENT FOR ITEMS OF WORK WILL BE MADE FOR THE AMOUNT AUTHORIZED BY THESE FIELD STAKED LIMITS AND THE SPECIAL TECHNICAL PROVISIONS.
- UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. WHERE EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND ALL AFFECTED UTILITY COMPANIES TO LOCATE ALL BURIED UTILITIES AT LEAST 48 HOURS PRIOR TO EXCÁVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF UTILITIES AS REQUIRED BY THE WORK. WHENEVER CONNECTIONS TO OR CLEARANCE FROM ANY UTILITY IS REQUIRED, THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, SIZE AND MATERIAL OF THE UTILITY PRIOR TO CONSTRUCTION.
- ASPHALT REPLACEMENT SHALL INCORPORATE A 4%  $\pm 1\%$  CROSS SLOPE BETWEEN THE SAWCUT AND THE NEW ROADSIDE TREATMENT. NEW ROADSIDE FLOW CONVEYANCES SHALL INCORPORATE SUCH GRADE AS NECESSARY TO GUARANTEE WATER CONTINUES TO FLOW IN THE PRESENT DIRECTION, WITHOUT PONDING OR
- ANY DAMAGE DONE BY THE CONTRACTOR OR HIS SUBCONTRACTORS TO PRIVATE PROPERTY AND/OR OUTSIDE OF THE NOTED LIMITS OF WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND/OR HIS SUBCONTRACTORS.
- 10. NTCD WILL PROVIDE INITIAL TESTING AND INSPECTION OF WORK AND MATERIAL AT NTCD'S EXPENSE. THE COST OF REMOVAL AND/OR REPLACEMENT OF ANY DEFECTIVE WORK OR MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF RETESTING AND/OR INSPECTING OF REPLACED WORK AND MATERIAL IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. SUCH COSTS WILL BE DEDUCTED FROM ANY MONEYS DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
- STANDARD WORK DAYS SHALL BE MONDAY THROUGH FRIDAY, SATURDAY AND SUNDAY MAY BE WORKED ON OCCASION ONLY TO MAKE UP FOR WEATHER DELAYS OR OTHER SCHEDULE DELAYS WITH TRPA APPROVAL. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- 12. NOISE SHALL BE REDUCED BY THE MANDATORY USE OF MUFFLERS ON ALL CONSTRUCTION VEHICLES AND EQUIPMENT. WHERE FEASIBLE, SOLENOIDAL PAVEMENT BREAKERS WILL BE USED IN LIEU OF AIR POWERED JACK HAMMERS. NOISE GENERATING ACTIVITIES WILL BE LIMITED TO THE HOURS OF 8:00 AM TO 6:30 PM.
- 13. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. THE CONTRACTOR WILL PROVIDE SWEEPING PER SPECIFICATION.
- 14. ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED PER TRPA.
- 15. SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANGER OF VIOLATING THIS CONDITION EXISTS.

MATERIAL SHALL BE STORED IN ANY STREAM ENVIRONMENT ZONE (SEZ) OR WET AREA.

- 16. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY TRPA.
- 17. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREA WHENEVER POSSIBLE. NO
- 18. ONLY EQUIPMENT OF A SIZE AND TYPE THAT WILL DO THE LEAST AMOUNT OF DAMAGE, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL BE USED.
- 19. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.
- 20. NO VEHICLE OR HEAVY EQUIPMENT SHALL BE ALLOWED IN A STREAM ENVIRONMENT ZONE OR WET AREA EXCEPT AS AUTHORIZED BY TRPA.
- 21. ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER.
- 22. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE NDOT RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
- 23. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LONGER THAN 24 HOURS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED.
- 24. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMP'S WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OF SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.g. AND THE PROJECT SWPPP

- 26. TRAFFIC CONTROL AND LANE CLOSURES WILL BE PER NDOT STANDARD SPECIFICATIONS.
- 27. ACCESS TO BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION

## ABBREVIATIONS

		O	
NOT ALL ABE	BREVIATIONS LISTED ARE USED IN THESE PLANS		
A.B.	AGGREGATE BASE	MDD	MAXIMUM DRY DENSITY
AC.	ACRE	MJ	MECHANICAL JOINT
	ASPHALT CONCRETE OR ASBESTOS CEMENT	MI.	MILE
@ APPROX.	AT APPROXIMATE	MIN. MISC.	MINIMUM MISCELLANEOUS
AVG.	AVERAGE	N	NORTH
AWWA	AMERICAN WATER WORKS ASSOCIATION	NAC	NEVADA ADMINISTRATIVE CODE
BC	BEGIN CURVE	N.I.C.	NOT IN CONTRACT
BGN	BEGIN	NDOT	NEVADA DEPT OF TRANSPORTATION
	CURB AND GUTTER	NTCD N.T.S.	NEVADA TAHOE CONSERVATION DISTRICT
	CABLE TELEVISION CATCH BASIN	N. 1. 5. NO.	NOT TO SCALE NUMBER
CBM	CHANNEL BED MATERIAL	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLF	CONSTRUCTION LIMIT FENCE	OFF	OFFSET
CLR.	CLEAR	OG	ORIGINAL GRADE
CO.	CLEAN OUT	OH(E/T) ±	OVERHEAD ELECTRIC OR TELEPHONE LINES PLUS OR MINUS
CONST.	CONSTRUCT CUBIC FEET	PT.	POINT
CMP	CORRIGATED METAL PIPE	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMEN
CMAP	CORRIGATED METAL ARCH PIPE	PC	POINT OF CURVATURE
CY	CUBIC YARD	PI	POINT OF INFLECTION
DBH	DIAMETER AT BREAST HEIGHT	PIP	PROTECT IN PLACE
DEG D.G.	DEGREE(S)	PVC PVMT	POLYVINYL CHLORIDE
D.G.	DECOMPOSED GRANITE DROP INLET	POC	PAVEMENT POINT ON CURVE
DIA.	DIAMETER	POS	POSITIVE
DR	DIMENSION RATIO	PRC	POINT OF REVERSE CURVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
	DRIVEWAY	PL	PROPERTY LINE
EA. EASE.	EACH EASEMENT	PO DUE	PUSH ON
EG	EXISTING GRADE	PUE R	PUBLIC UTILITY EASEMENT RADIUS
ELEC	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REVEG	REVEGATATION
ELEV. OR EL		RLC	ROCK LINED CHANNEL
EC EWEF	END CURVE EACH WAY EACH FACE	RT,R	RIGHT
EX.	EXISTING	R/W, ROW	
	FINISH GRADE	S SD	SLOPE OR SOUTH STORM DRAIN
	FIRE HYDRANT	SDMH	STORM DRAIN MANHOLE
	FLANGE COUPLER ADAPTER	SDR	STANDARD DIMENSION RATIO
	FLARED END SECTION (METAL) FILTER FENCE	SF	SQUARE FOOT/FEET
	FLOWLINE	SHT	SHEET
	FLANGED	STA STD	STATION
FT.	FOOT, FEET	SS	STANDARD SANITARY SEWER, STAINLESS STEEL
FTG	FOOTING	SSCO.	·
FV •	FLUSH VALVE	SSMH	SANITARY SEWER MANHOLE
G	DEGREE GAS	SSPWC	
GV	GATE VALVE	SWPPP	
GB	GRADE BREAK	SY TBC	SQUARE YARD TOP BACK OF CURB
	HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
	NON-PERFORATED HIGH DENSITY POLYETHYLENE	TRPA	TAHOE REGIONAL PLANNING AGENCY
	PERFORATED HIGH DENSITY POLYETHYLENE HIGH POINT	TW	TOP OF WALL
HOR., HORIZ.		(TYP)	TYPICAL
HWY	HIGHWAY	UGE	UNDERGROUND TELEPHONE LINES
IN.	INCH	UGT VC	UNDERGROUND TELEPHONE LINES VERTICAL CURVE
IE .	INVERT ELEVATION	VG VG	VALLEY GUTTER
	IRRIGATION	VPC	VERTICAL POINT OF CURVATURE
IVGID L	INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT LEFT	VPI	VERTICAL POINT OF INFLECTION
	LENGTH	VPT W	VERTICAL POINT OF TANGENT
LF	LINEAR FEET	W WL	WATER WATERLINE
	LOW IMPACT DEVELOPMENT	W	WEST
LP IS	LUMP SUM	w/	WITH

**UTILITIES** 

NV ENERGY, (775) 834-4444

FRONTIER (775) 782-0966

(800) 642-2444 OR 811

SOUTHWEST GAS, (877) 860-6022

KINSGBURY GID, (775) 588-3548

CHARTER COMMUNICATIONS, (775) 588-1077

DOUGLAS COUNTY PUBLIC WORKS (775) 782-9989

DOUGLAS COUNTY SEWER IMPROVEMENT DISTRICT (775) 588-3558

WATER METER

# STORM DRAIN MANHOLE WATER LINE WATER METER / VALVE

EXISTING

5+00

——— MAJOR CONTOUR

---- PROPERTY LINE

EXISTING FENCE

- SD - STORM DRAIN LINE

MINOR CONTOUR

OR — PAVEMENT

CATCH BASIN

EXISTING ALIGNMENT

EXISTING MAJOR CONTOUR LABEL

EXISTING GRADE (SECTION VIEW)

--- SS --- SANITARY SEWER LINE SANITARY SEWER MANHOLE --- OH E--- OVERHEAD ELECTRIC LINE

POWER POLE ---- UG T---- UNDER GROUND TELEPHONE LINES.

— OH T— OVERHEAD TELEPHONE LINES — UG FO— UNDERGROUND FIBER OPTIC LINES — GAS — UNDERGROUND GAS LINES

TREE

DRAINAGE

OR — CONCRETE

FIRE HYDRANT

CONTROL POINT BUILDING --- PRIVATE DRIVEWAY

ROCK LINED CHANNEL

EXISTING ROCK WALL ASSESSOR PARCEL NUMBER 125-382-13

958 TYNER ST. PHYSICAL ADDRESS (PRIVATE LOT)

SECTION OR DETAIL IDENTIFICATION NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN SECTION OR DETAIL IDENTIFICATION

# HORIZONTAL AND VERTICAL PROJECTION

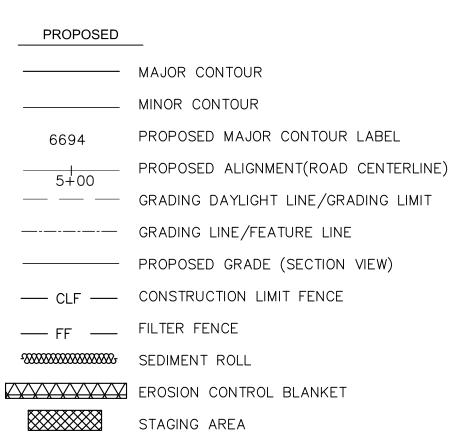
VERTICAL CONTROL IS DATUM NGVD 29 US FEET; HORIZONTAL CONTROL IS NDOT CONTROL LINE LPN 907 HORIZONTAL DATUM NAD 83/94 (aka NAD 83HARN) STATE PLANE COORDINATE SYSTEM NEVADA ZONE WEST (U.S. FEET) AND MODIFIED TO GROUND COMBINED SCALE FACTOR OF 0.9997370692

> RECORD DRAWINGS 1/20/17

- SYMBOL FOR DETAIL ON THE SAME SHEET

# **LEGEND**

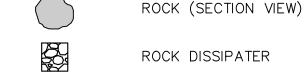
NOTE: LEGENDS PROVIDED ON INDIVIDUAL PLAN SHEETS OVERRIDE THIS LEGEND



PROPOSED PIPE PROPOSED CONCRETE PROPOSED VEGETATION/WILLOW

ROCK LINED CHANNEL (PLAN VIEW)

\_ + \_ + \_ + \_ + \_ + SEDIMENT REMOVAL



PROJECT BOUNDARY

PROPOSED FENCE (TYPE SPECIFIED ON PLAN)

KELLY Exp: 6/30/2017

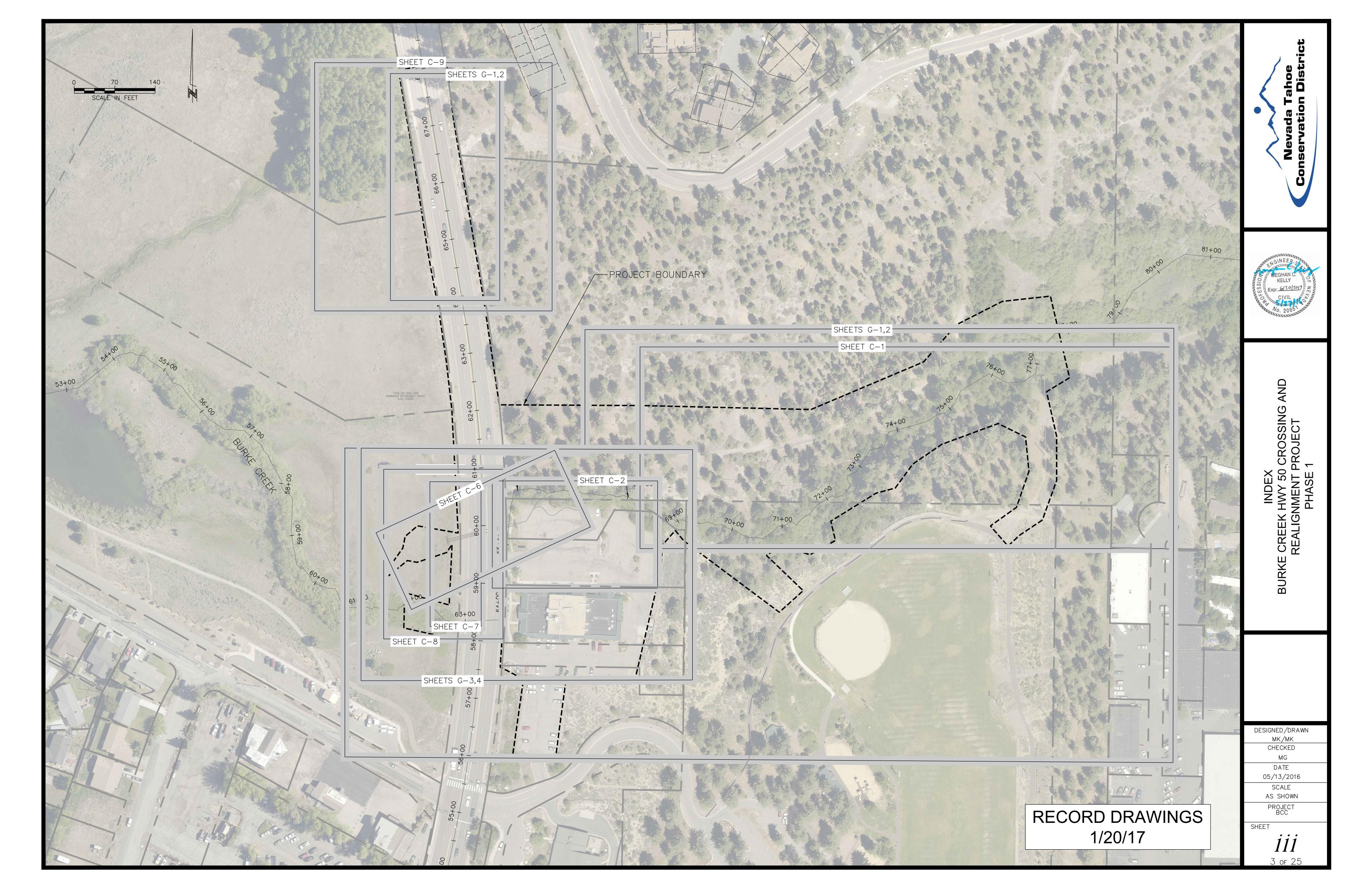
> GENE REEK H EALIGNN URKE

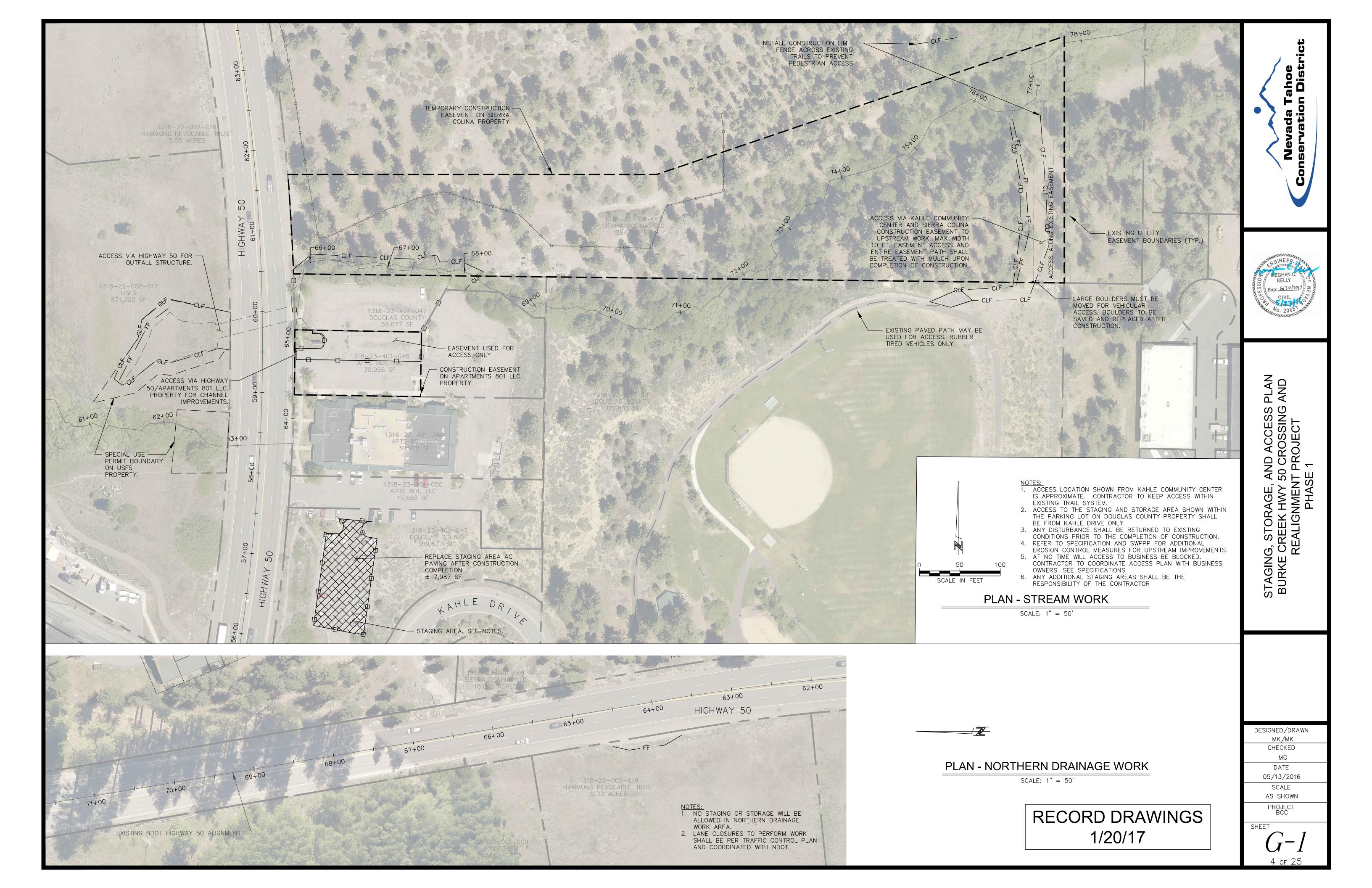
DESIGNED/DRAWN MK/MK CHECKED MG DATE 05/13/2016 SCALE

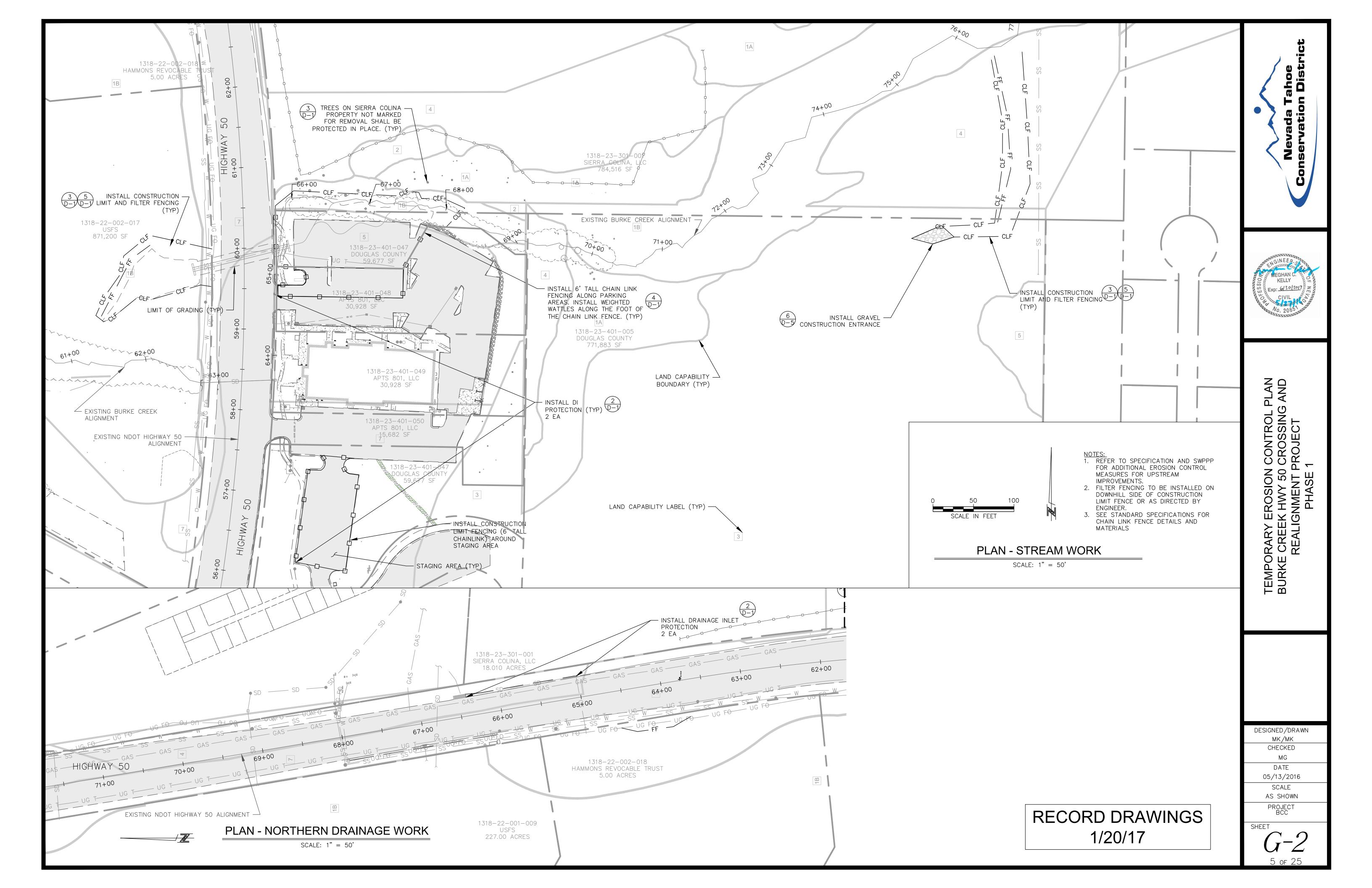
PROJECT BCC

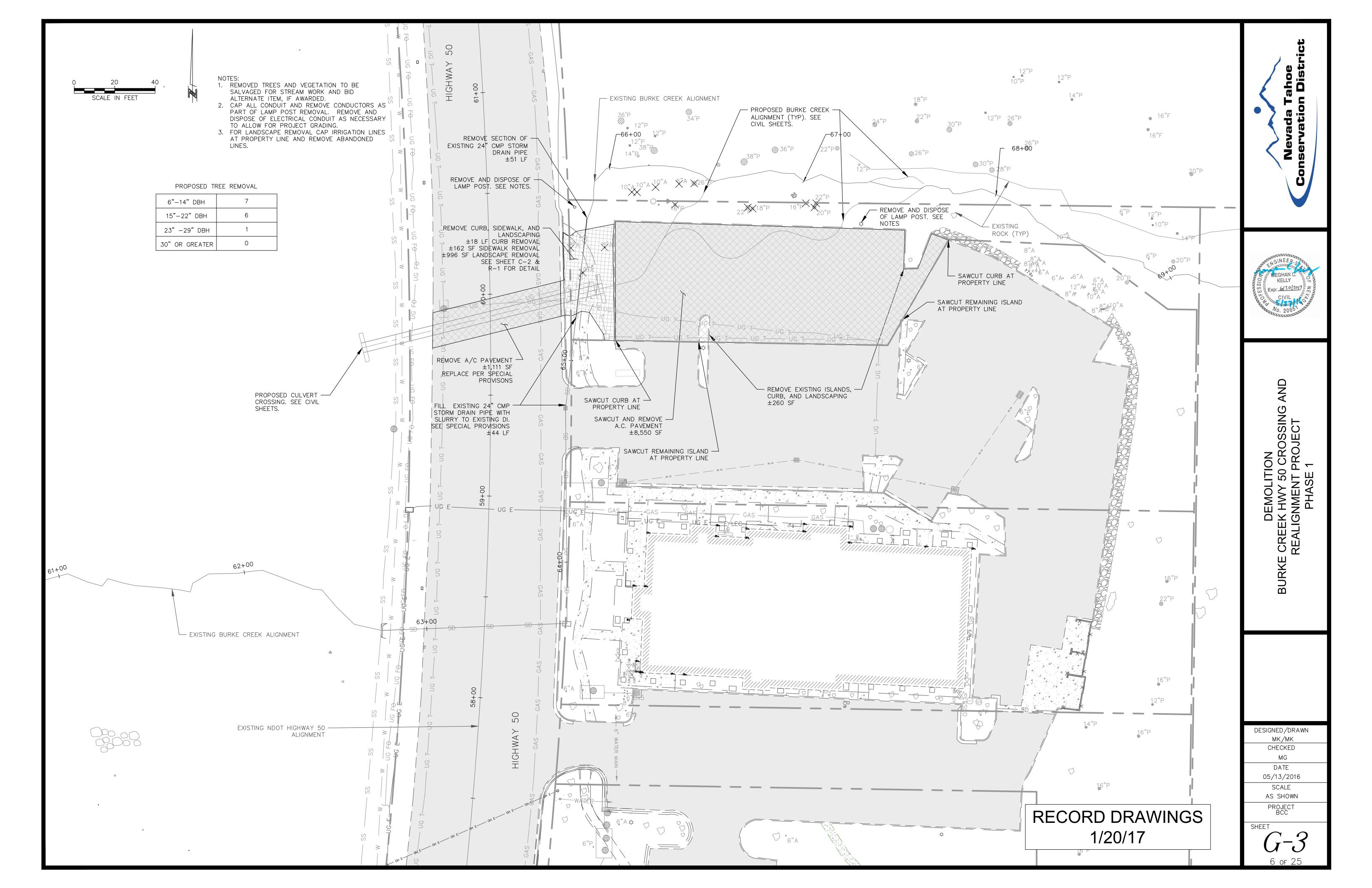
AS SHOWN

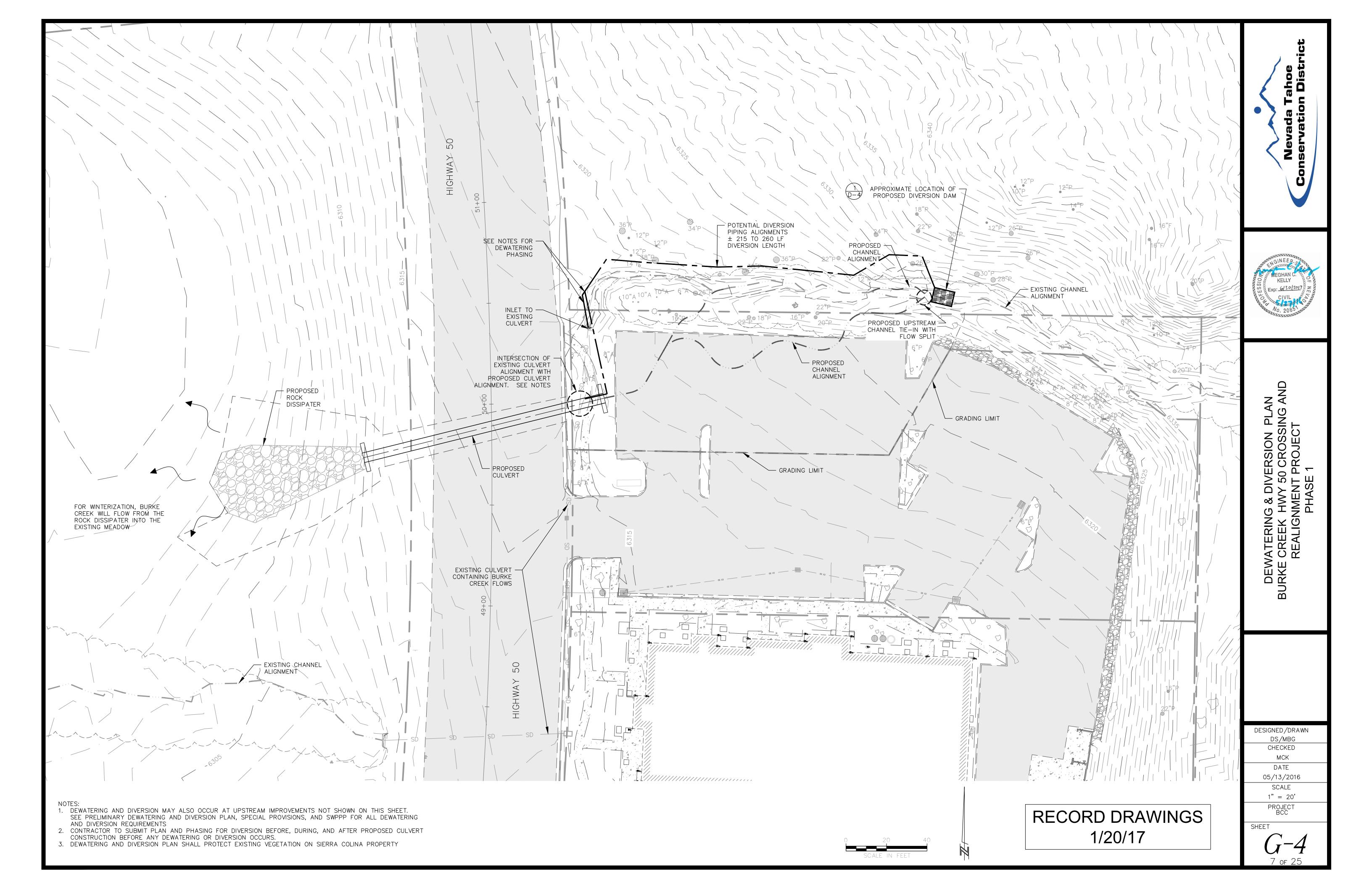
SHEET 2 of 25

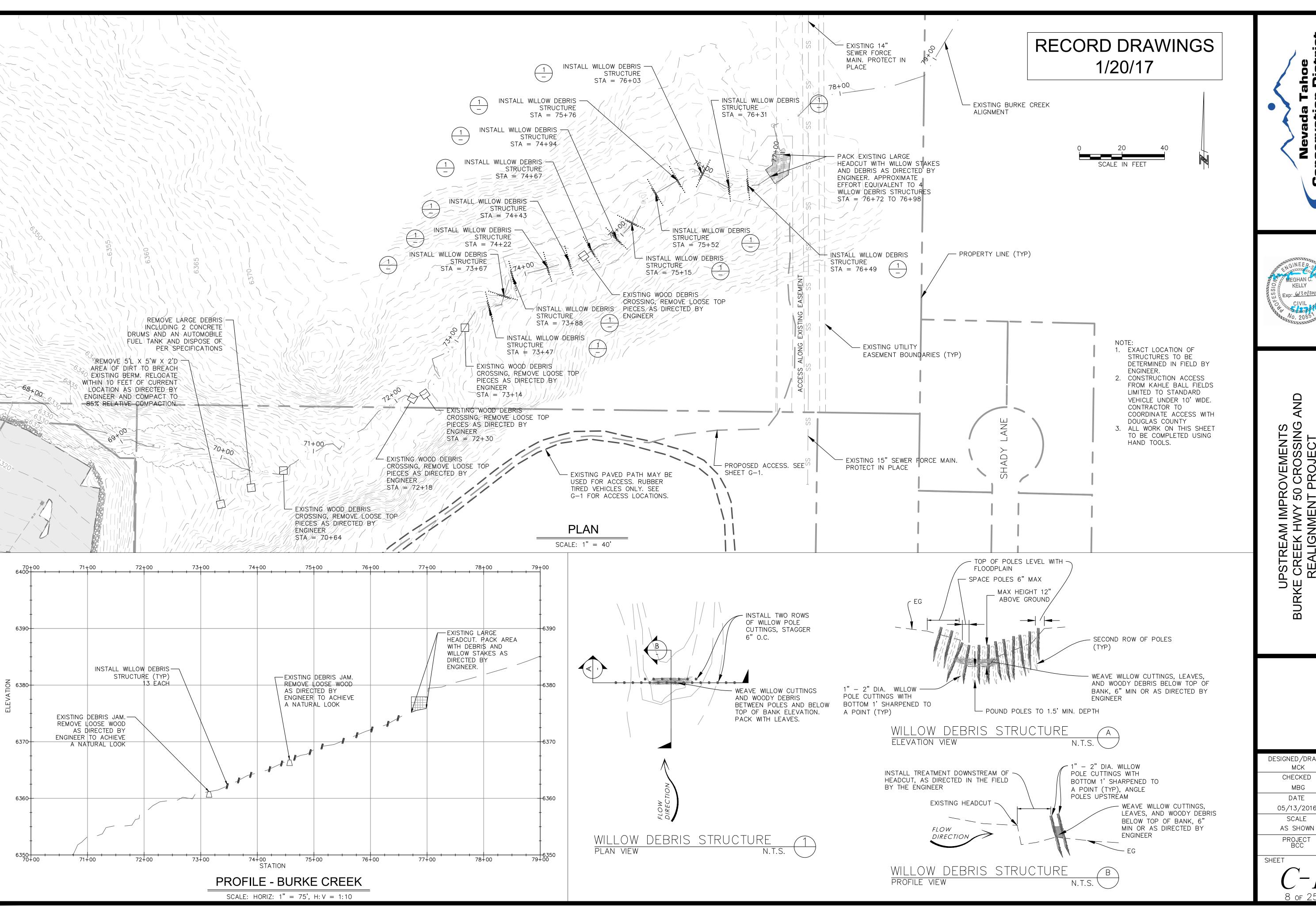












ahoe Dist Ŭ

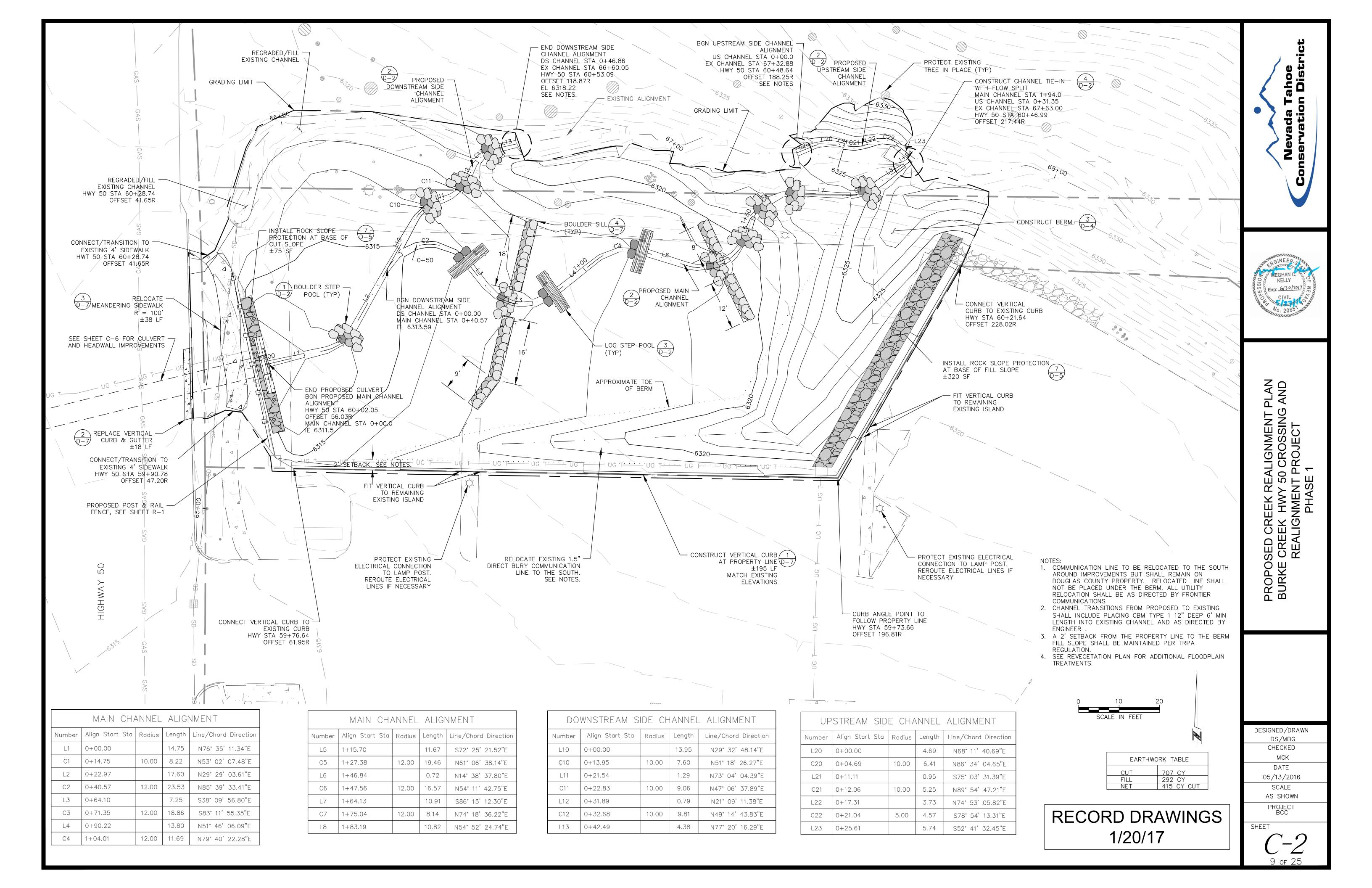


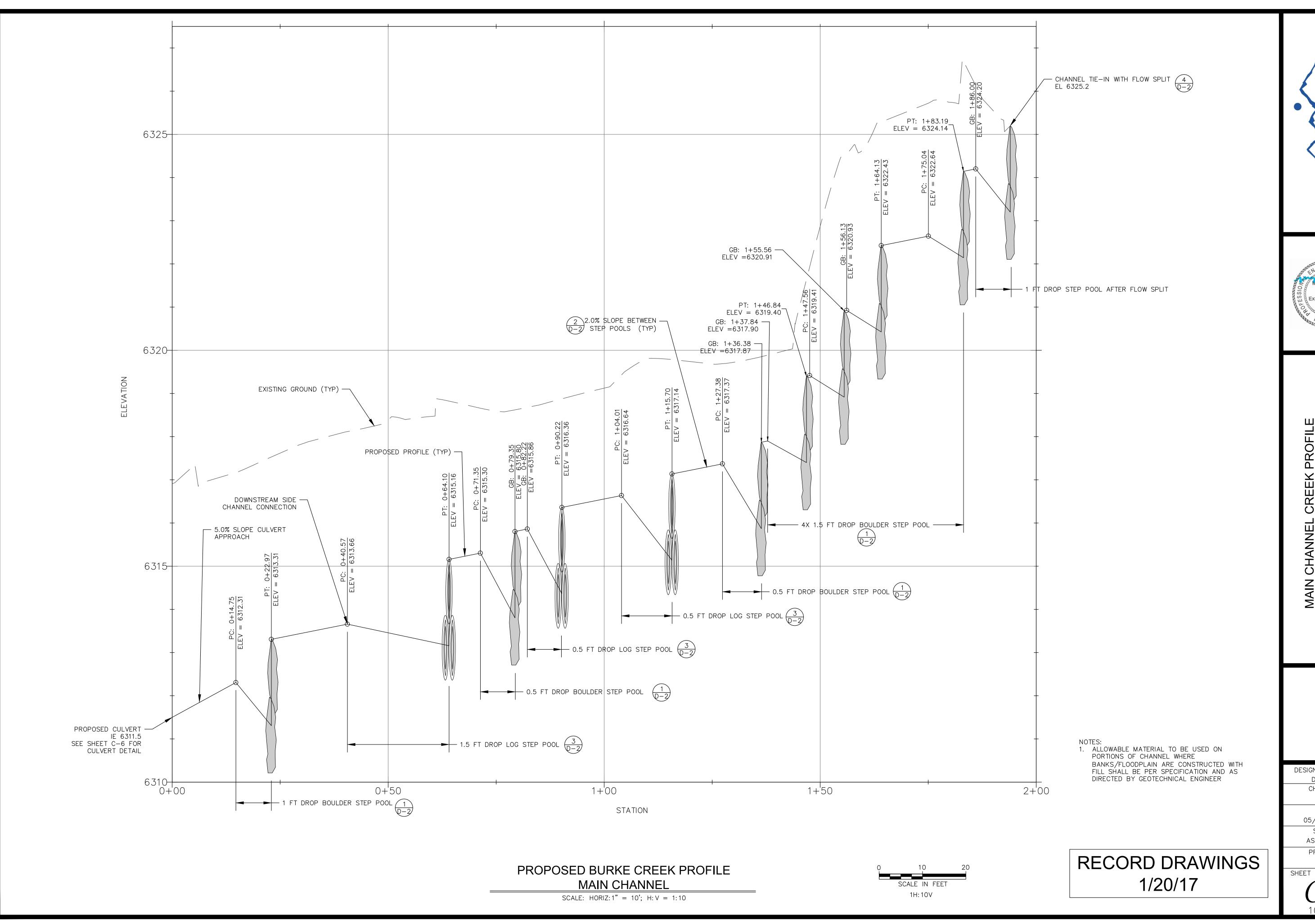
UPSTREAM IMPROVEMENTS
BURKE CREEK HWY 50 CROSSING
REALIGNMENT PROJECT
PHASE 1

DESIGNED/DRAWN MCK

CHECKED MBG DATE

05/13/2016 SCALE





Nevada Tahoe
Conservation District



MAIN CHANNEL CREEK PROFILE BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT PHASE 1

DESIGNED/DRAWN
DS/MBG
CHECKED
MCK
DATE

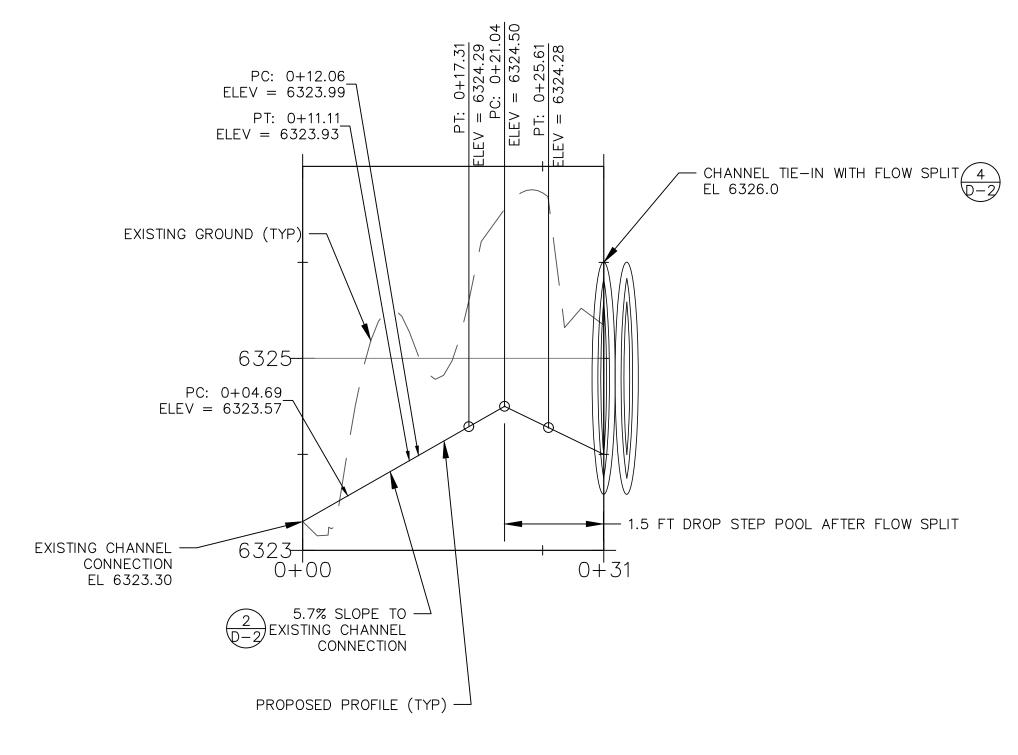
05/13/2016 SCALE AS SHOWN

PROJECT BCC

C-3
10 of 25

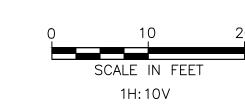
PROPOSED BURKE CREEK PROFILE DOWNSTREAM SIDE CHANNEL

SCALE: HORIZ:1" = 10'; H:V = 1:10



# PROPOSED BURKE CREEK PROFILE UPSTREAM SIDE CHANNEL

SCALE: HORIZ: 1" = 10'; H: V = 1:10



RECORD DRAWINGS 1/20/17



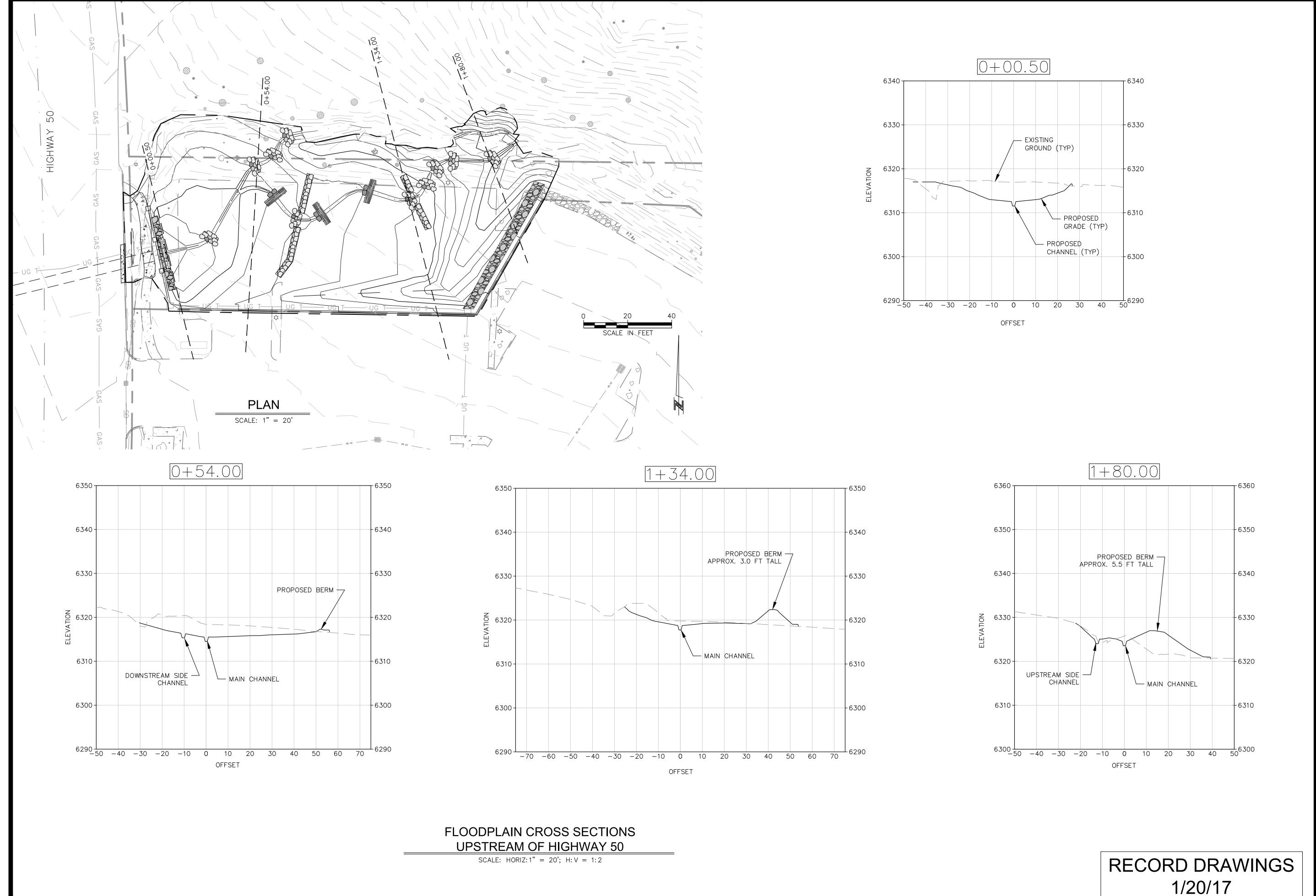


SIDE CHANNEL CREEK PROFILE BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT PHASE 1

DESIGNED/DRAWN
DS/MBG
CHECKED
MCK
DATE
05/13/2016
SCALE

AS SHOWN
PROJECT

SHEET C-4



Nevada Tahoe
Conservation Distric



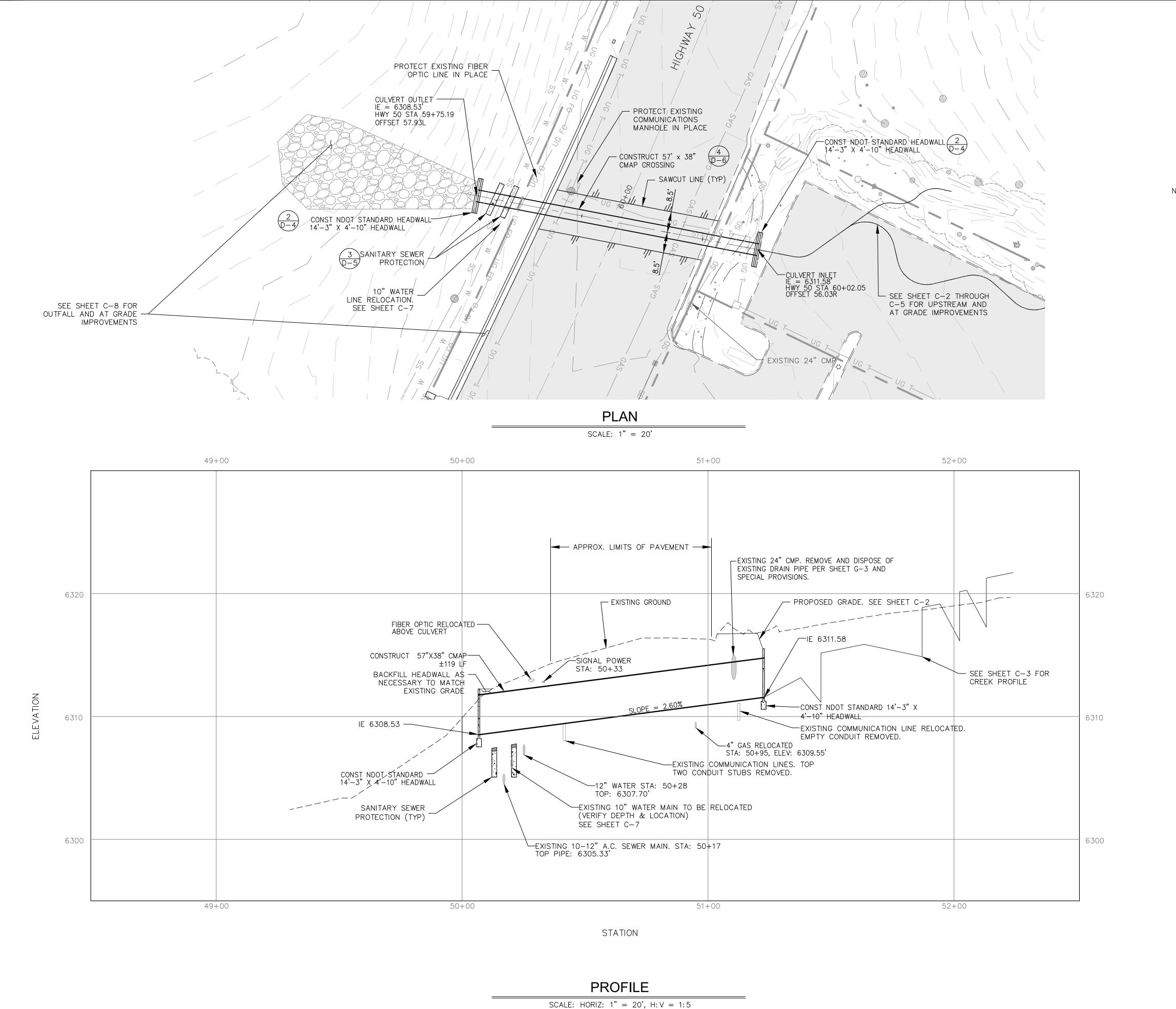
PROPOSED FLOODPLAIN CROSS SECTIC BURKE CREEK HWY 50 CROSSING ANI REALIGNMENT PROJECT PHASE 1

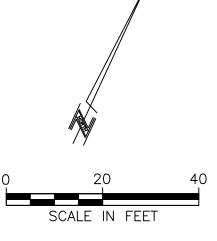
DESIGNED/DRAWN
MBG/MBG
CHECKED
MCK
DATE
05/13/2016

SCALE AS SHOWN

SHEET

-5





NOTES:

1. SEE C-2, C-7, DEMOLITION, AND LANDSCAPING SHEETS FOR ADDITIONAL IMPROVEMENTS ABOVE CMAP AT STREET

2. ALL UTILITY HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.





CULVERT CROSSING PLAN AND PROFIL BURKE CREEK HWY 50 CROSSING AND REALIGNMENT PROJECT PHASE 1

REVISIONS
NO DATE DESCRIPTION
3 9/15/16 CHANGE ORDER 1

DESIGNED/DRAWN
AL
CHECKED

CHECKED

MG/MK

DATE

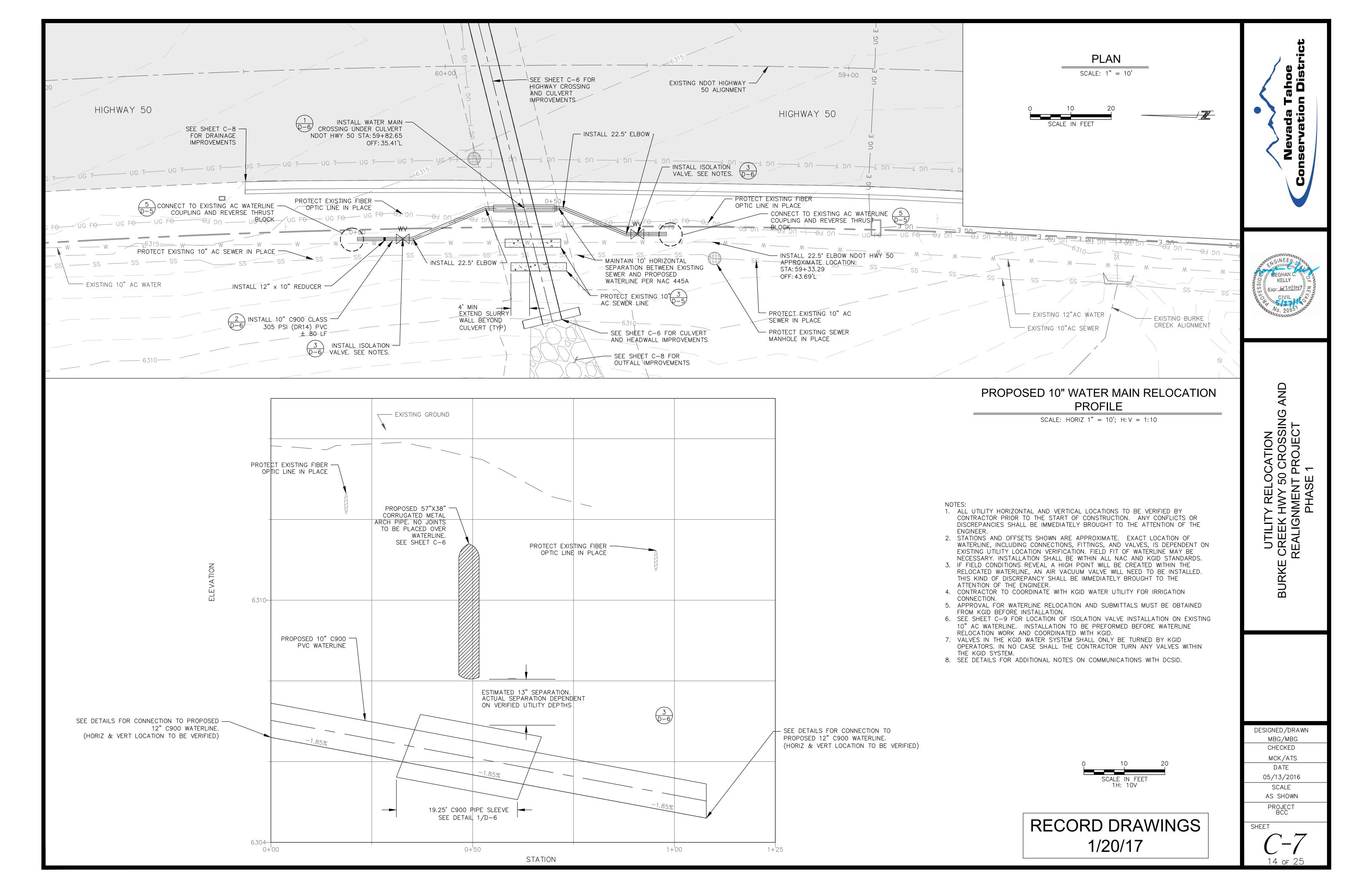
09/15/2016

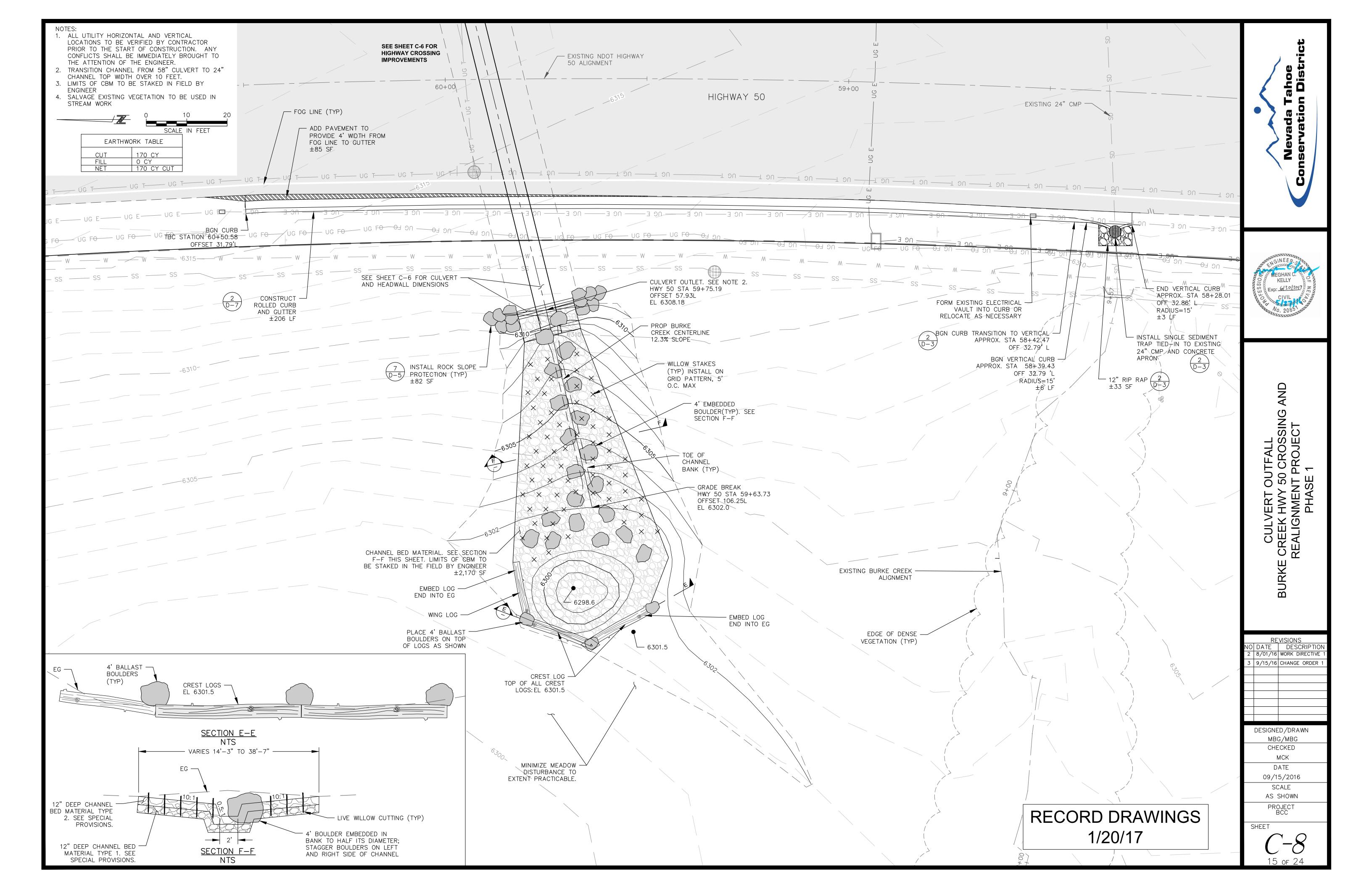
SCALE 1"=20' H, H: V=1: 5

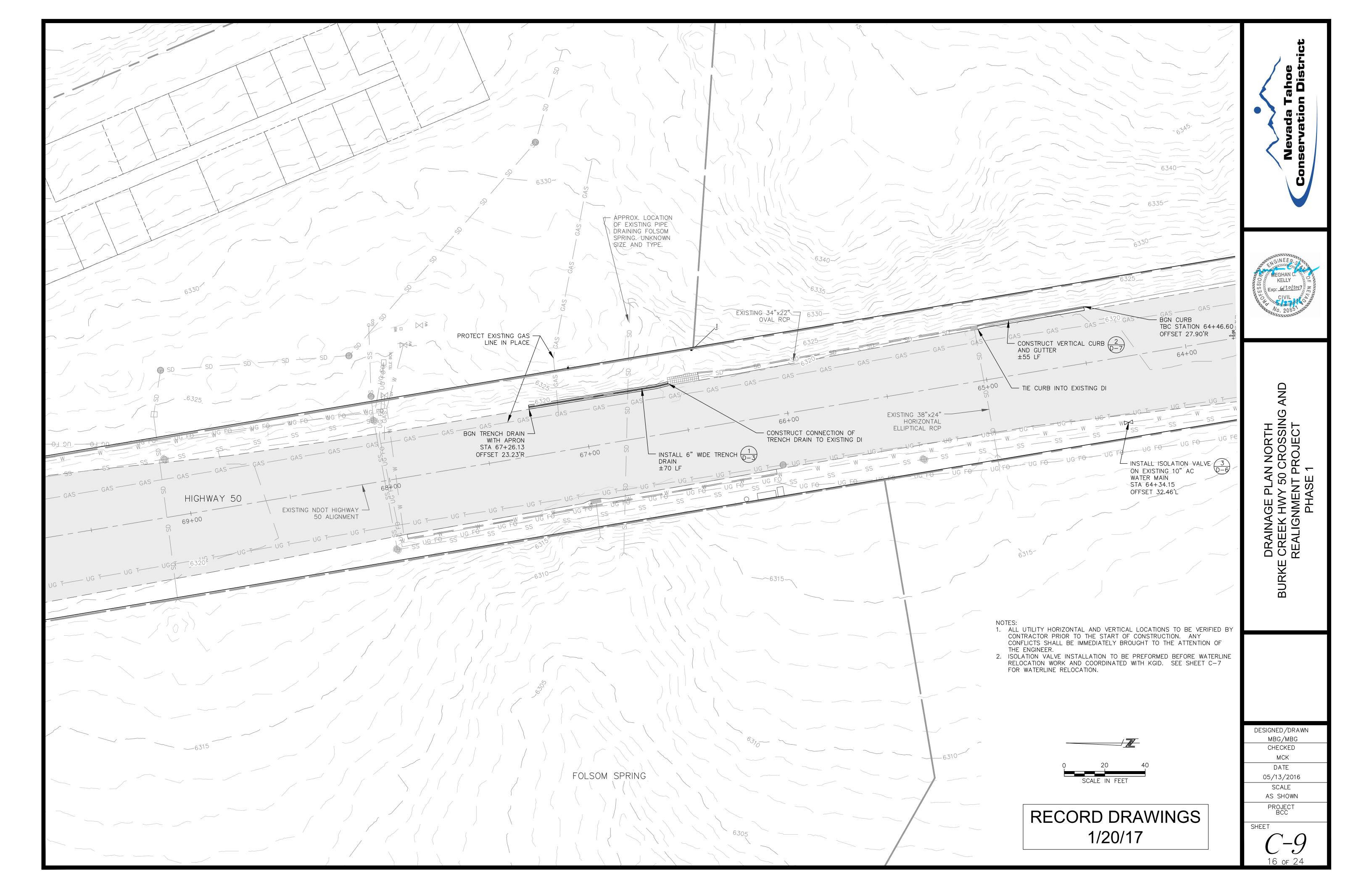
PROJECT BCC

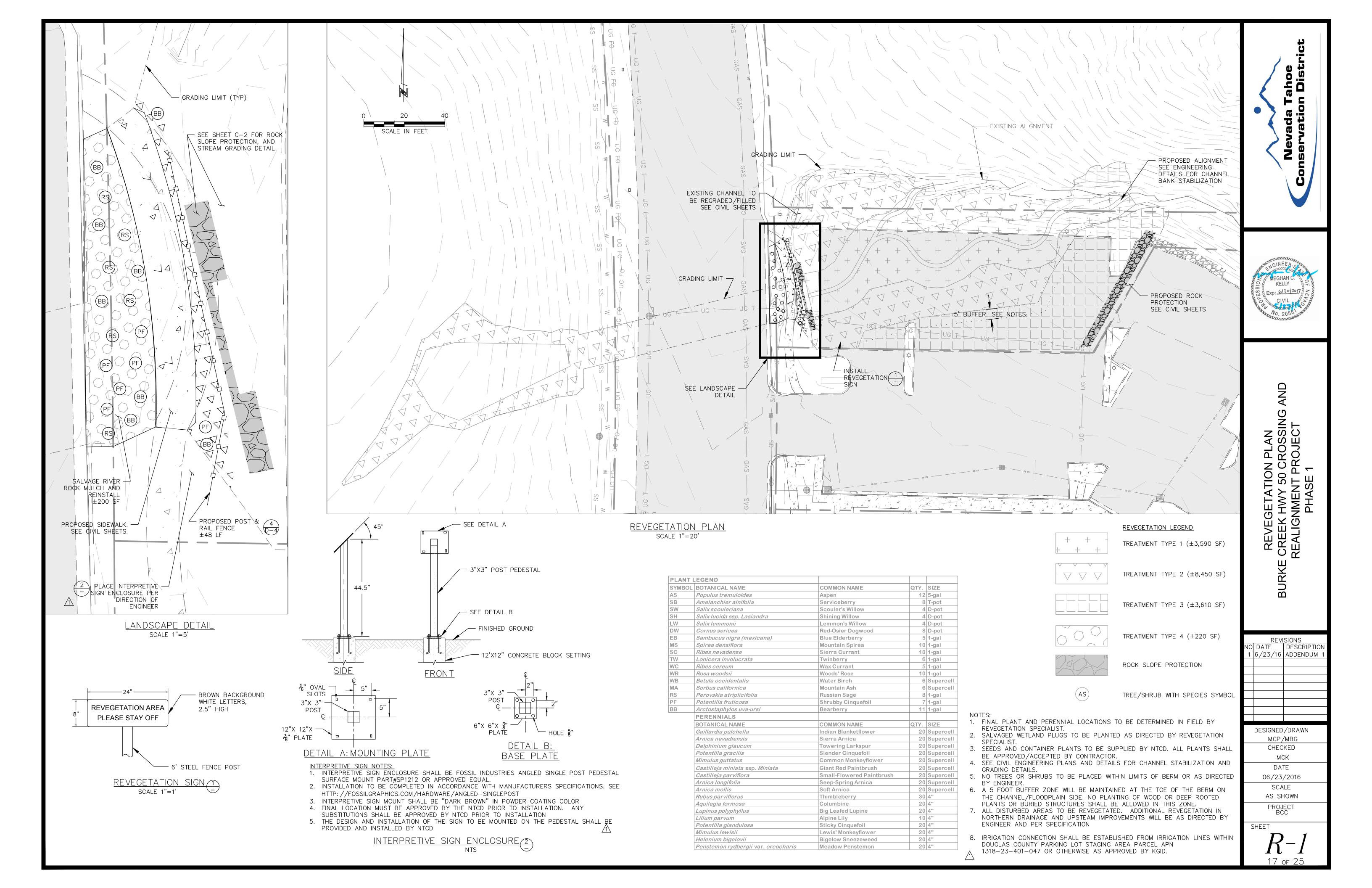
13 OF 25

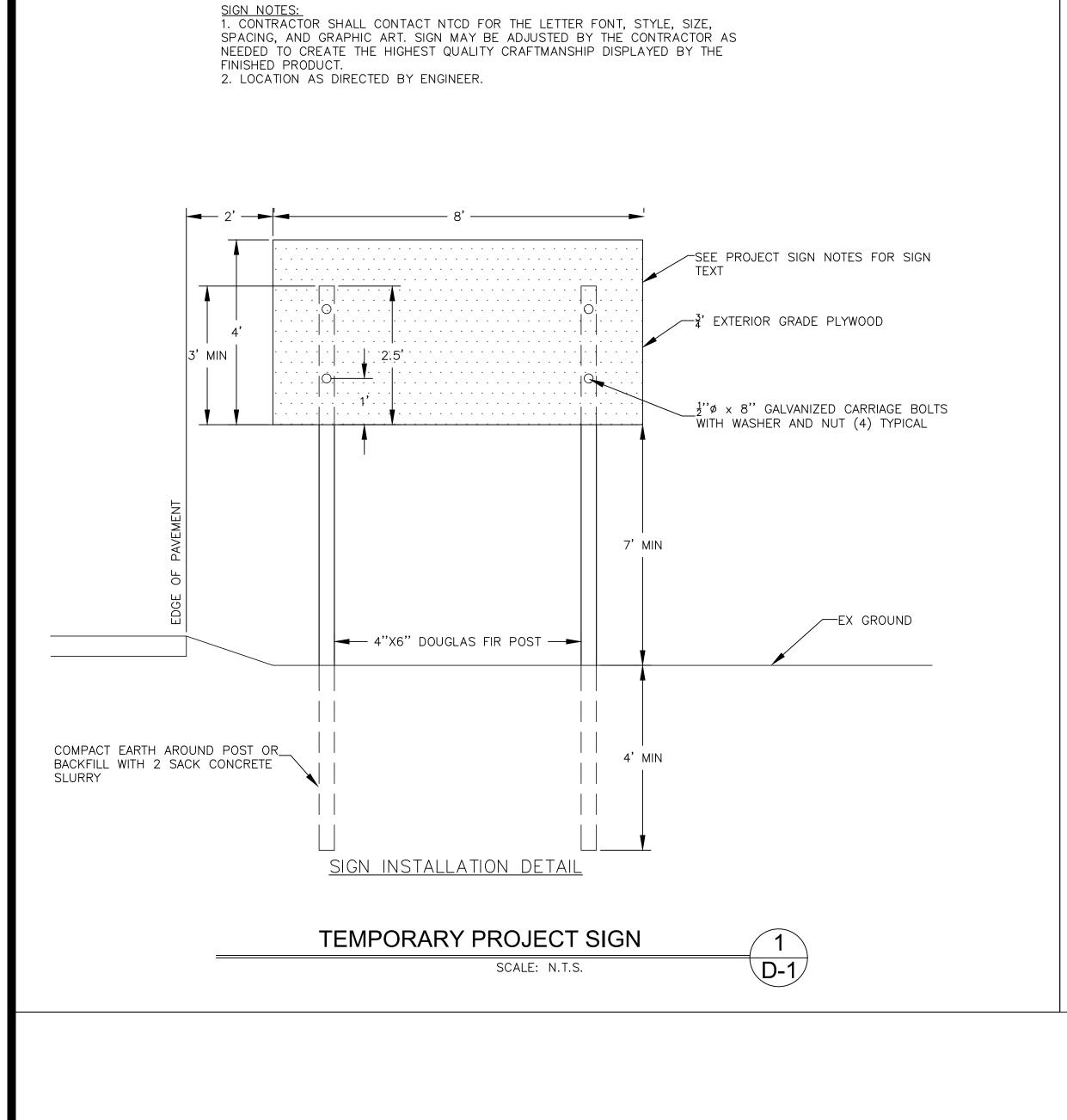
RECORD DRAWINGS 1/20/17

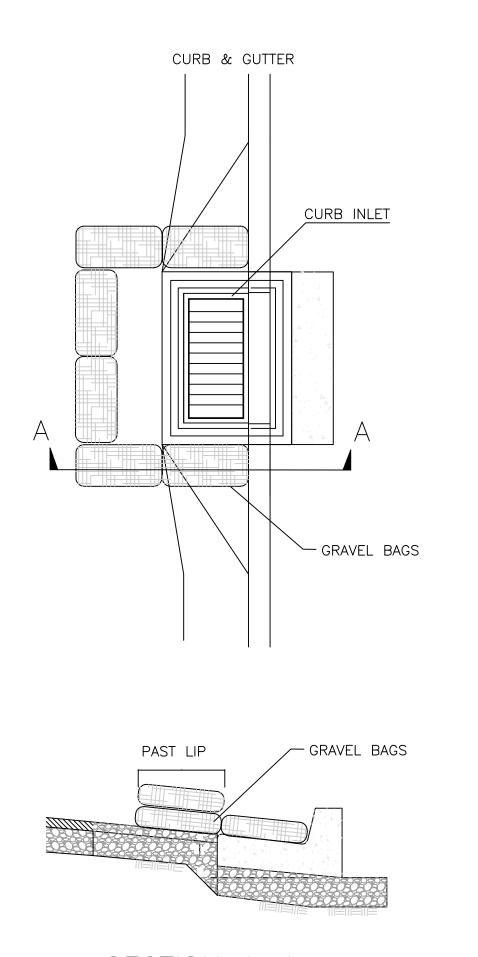


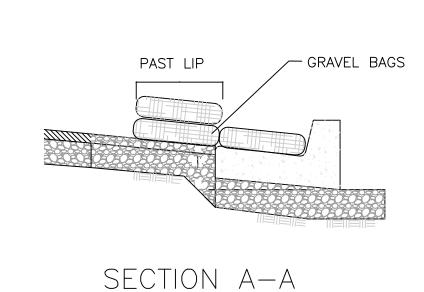






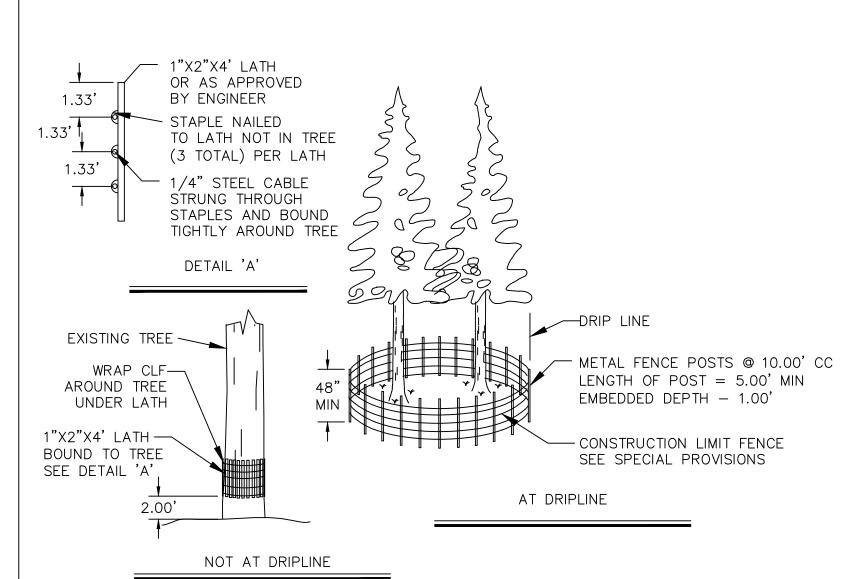








# RECORD DRAWINGS 1/20/17

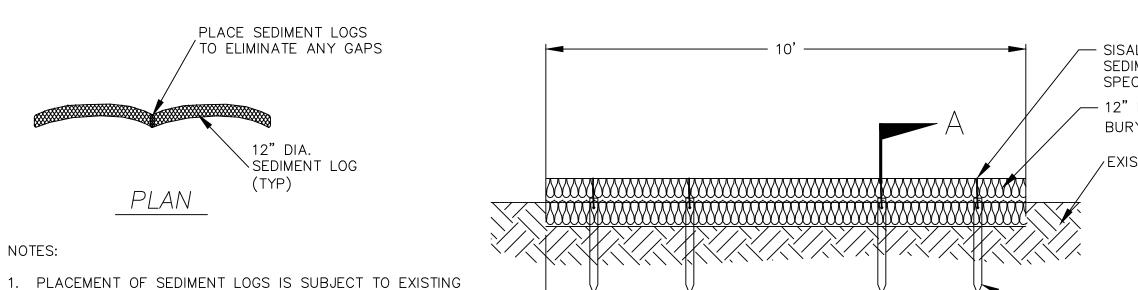


- 1. CLF AND TREE PROTECTION FENCE SHALL BE A MINIMUM OF 48" HIGH. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR THE TRPA AT THE PREGRADE MEETING.
- 2. THE DETAIL SHOWN IS FOR TREE PROTECTION. MATERIAL AND SPACING SHOWN ALSO APPLIES
- 3. QUANTITY OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.

# CONSTRUCTION LIMIT AND TREE PROTECTION FENCING

NOT TO SCALE





CONDITIONS. FINAL LOCATIONS TO BE DETERMINED BY

2. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING

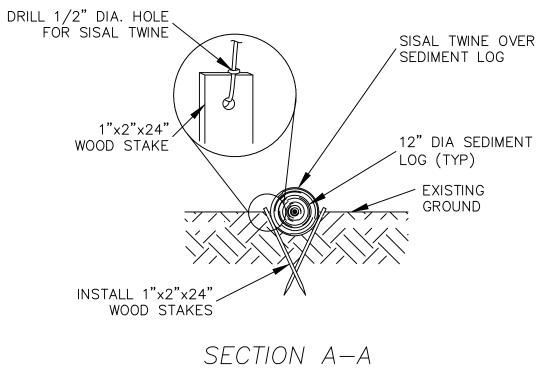
3. WEIGHTED SEDIMENT LOGS MAY BE NECESSARY ON PAVED

THE ENGINEER IN THE FIELD.

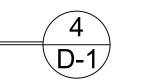
AREAS.

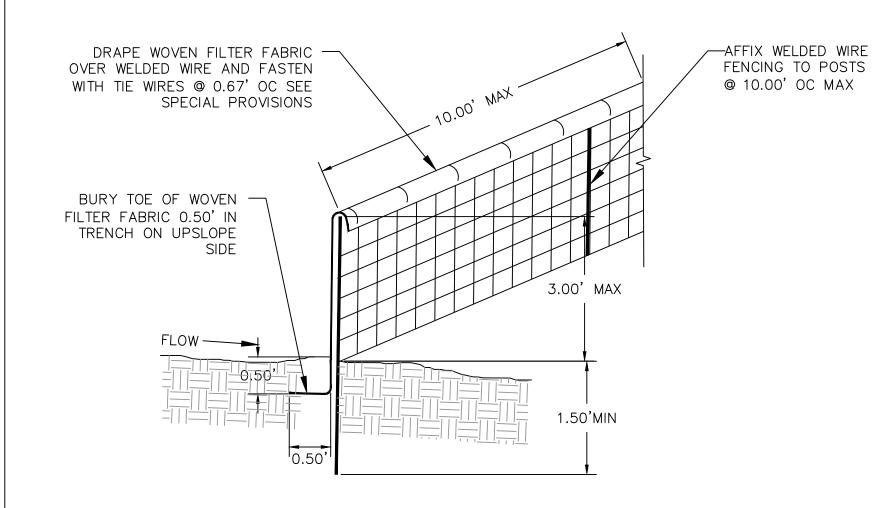
SEDIMENT LOG MATERIAL REQUIREMENTS.

SISAL TWINE OVER SEDIMENT LOG, SEE SPECIAL PROVISIONS - 12" DIA. SEDIMENT LOG BURY  $\frac{1}{2}$  DIA. (TYP) EXISTING GROUND INSTALL 1"x2"x24" WOOD STAKES 2' (TYP) PROFILE



SEDIMENT ROLL (COIR LOG) NOT TO SCALE





NOTES: 1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY TRPA. SEE SPECIAL PROVISIONS.

> 2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

FILTER FENCE \D-1 NOT TO SCALE

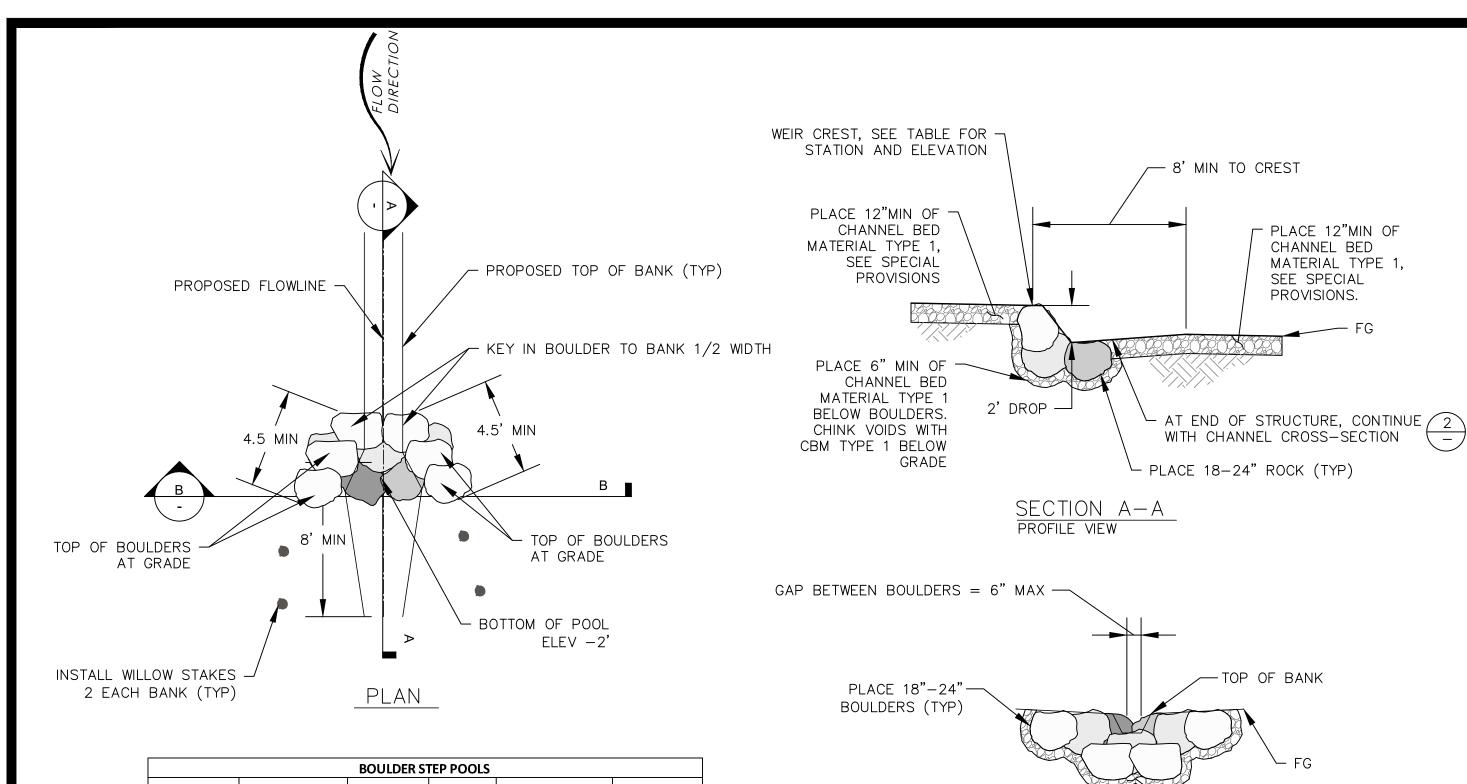


BURKE

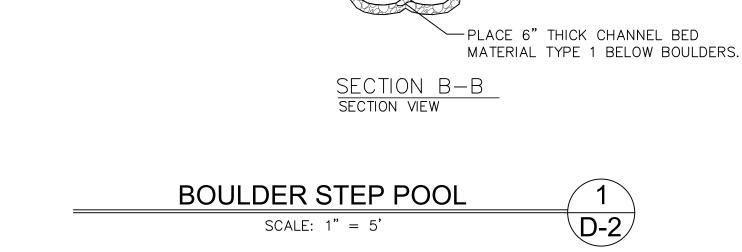
DESIGNED/DRAWN MK/MK CHECKED MG DATE

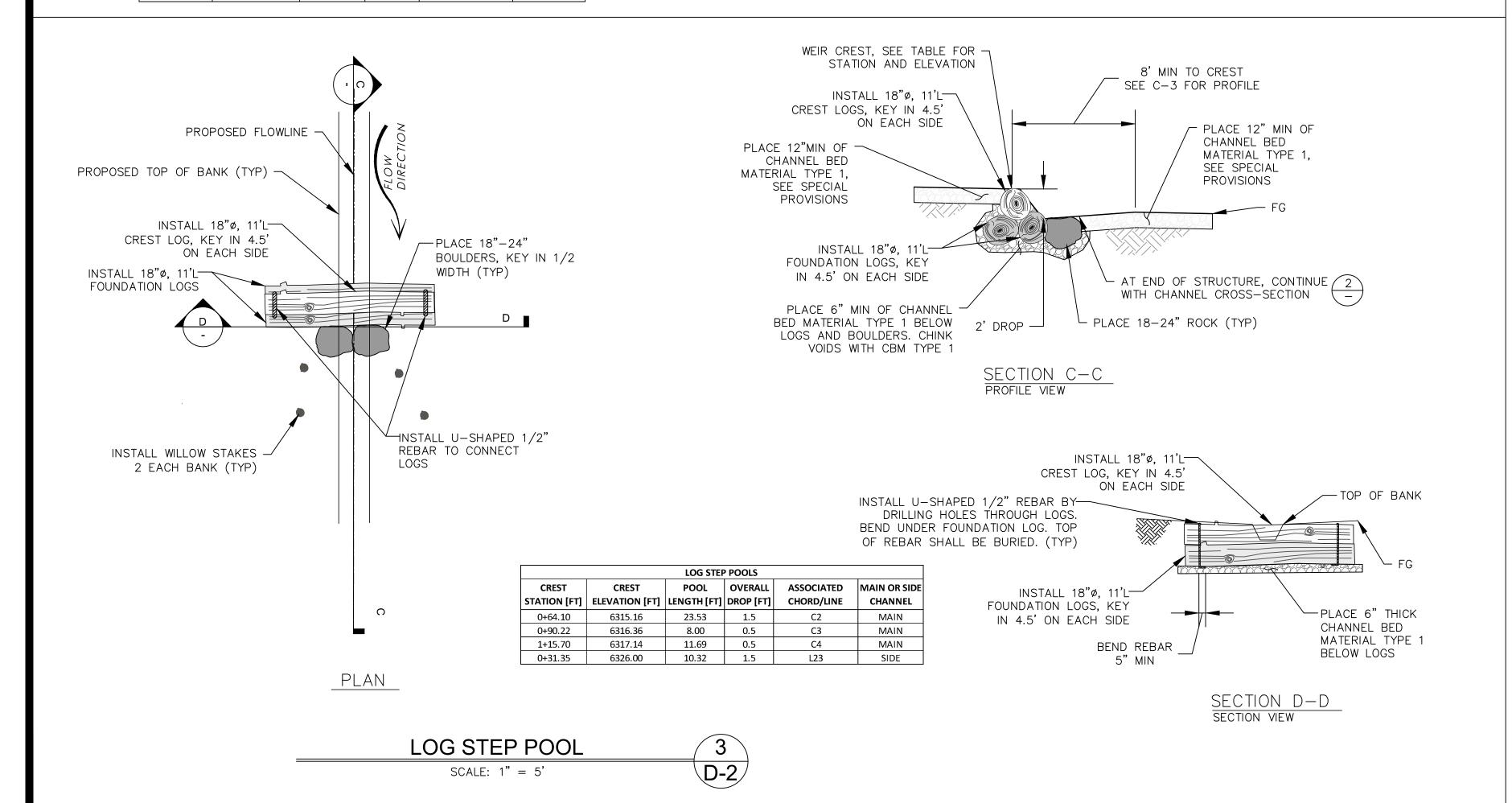
05/13/2016 SCALE AS SHOWN

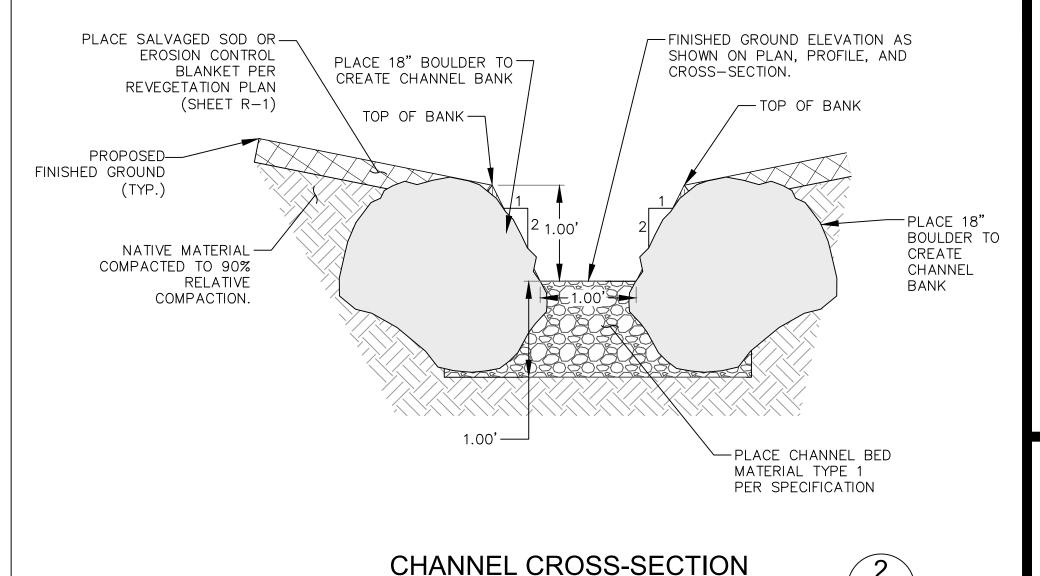
SHEET



BOULDER STEP POOLS							
CREST STATION [FT]	CREST ELEVATION [FT]	POOL LENGTH [FT]	OVERALL DROP [FT]	ASSOCIATED CHORD/LINE	MAIN OR SIDE		
STATION [F1]	ELEVATION			CHORD/LINE	CHAININEL		
0+22.97	6316.24	8.22	1.0	C1	MAIN		
0+79.35	6315.80	8.00	0.5	C3	MAIN		
1+36.38	6317.87	9.00	0.5	C5	MAIN		
1+46.84	6319.40	9.00	1.5	C5	MAIN		
1+55.56	6320.91	8.00	1.5	C6	MAIN		
1+64.13	6322.43	8.00	1.5	C6	MAIN		
1+83.19	6324.14	8.14	1.5	C7	MAIN		
1+94.00	6325.20	8.00	1.0	L8	MAIN		
0+21.54	6315.46	7.59	1.0	C10	SIDE		
0+31.89	6316.48	9.06	1.0	C11	SIDE		
0+42.49	6318.00	9.80	1.5	C12	SIDE		







SCALE: 1" = 1'



AND

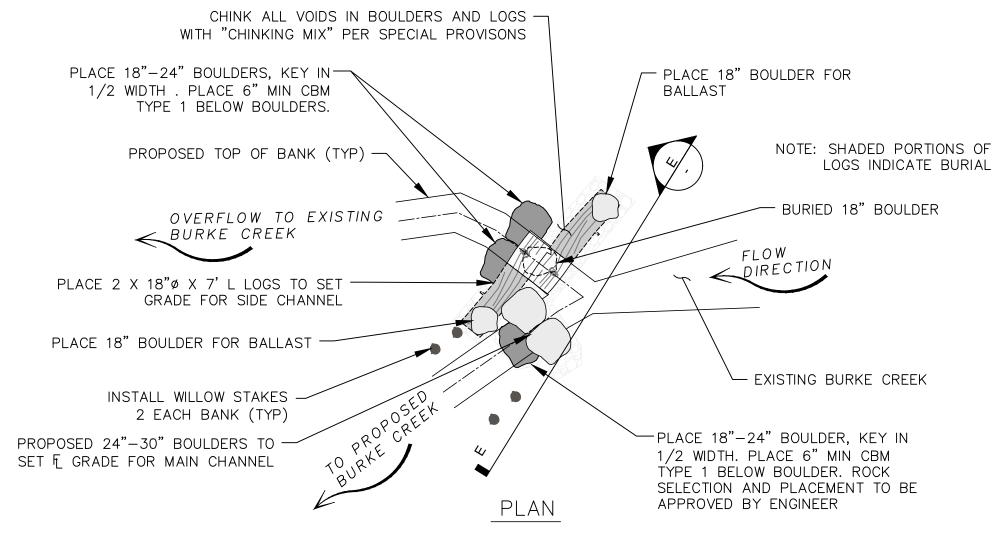
CROSSING / PROJECT

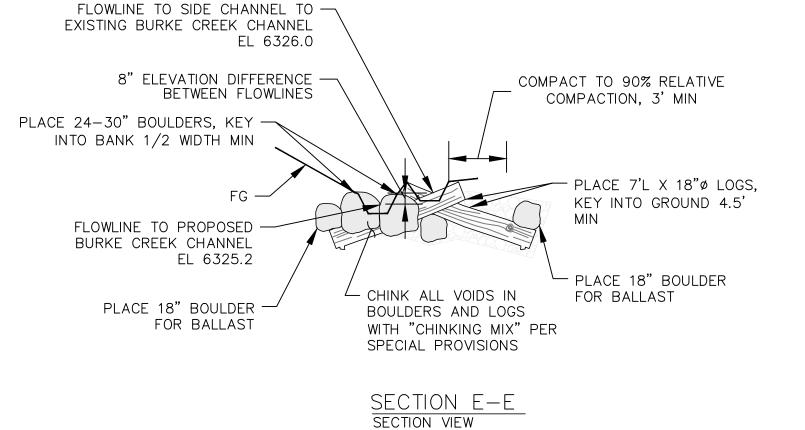
BURKE

D-2

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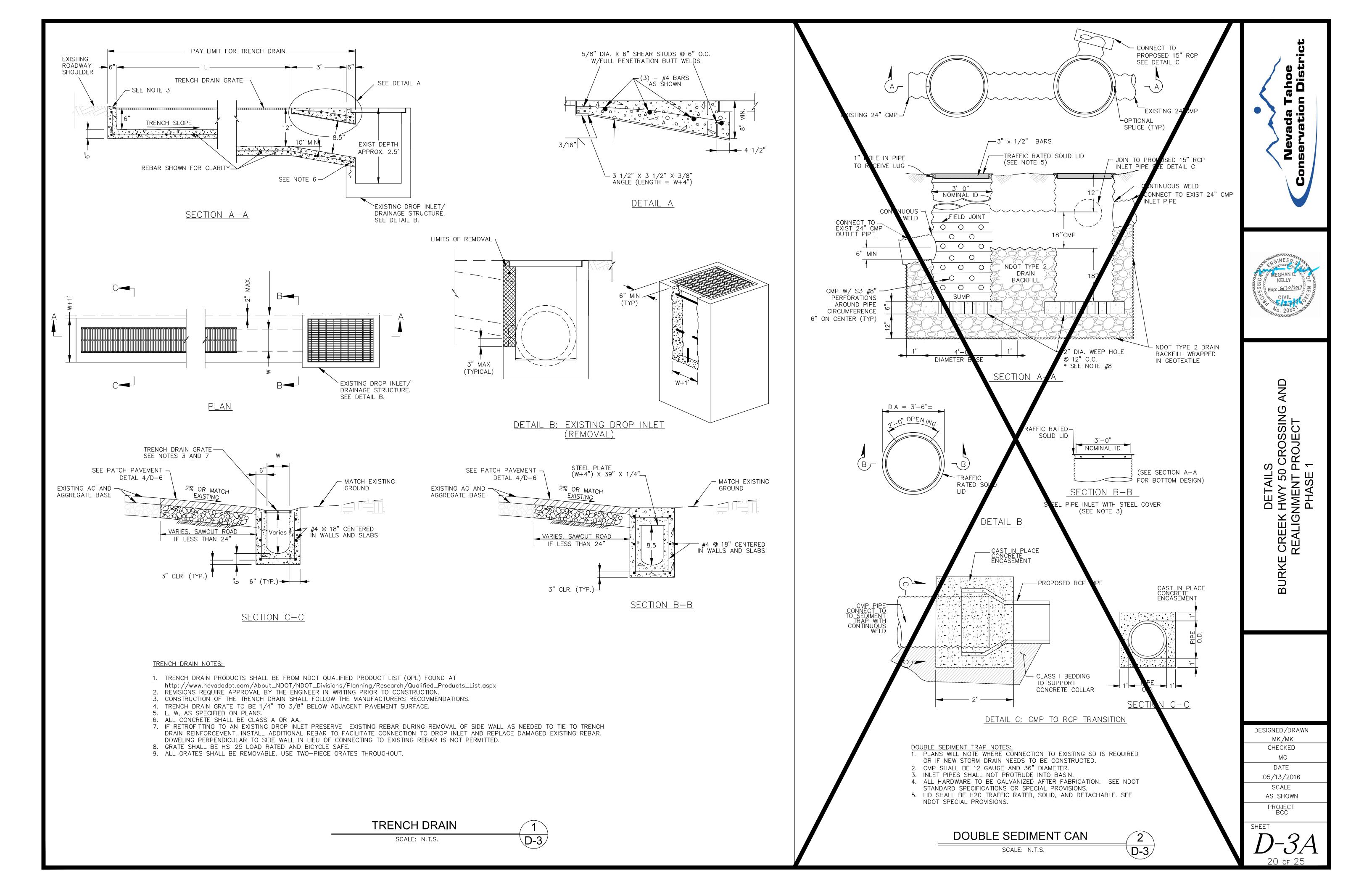
CHANNEL TIE-IN WITH FLOW SPLIT 4

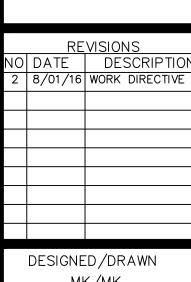
NOT TO SCALE

D-2

RECORD DRAWINGS 1/20/17 DESIGNED/DRAWN
MCK
CHECKED
MBG
DATE
05/13/2016
SCALE
AS SHOWN
PROJECT
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D-2 \\
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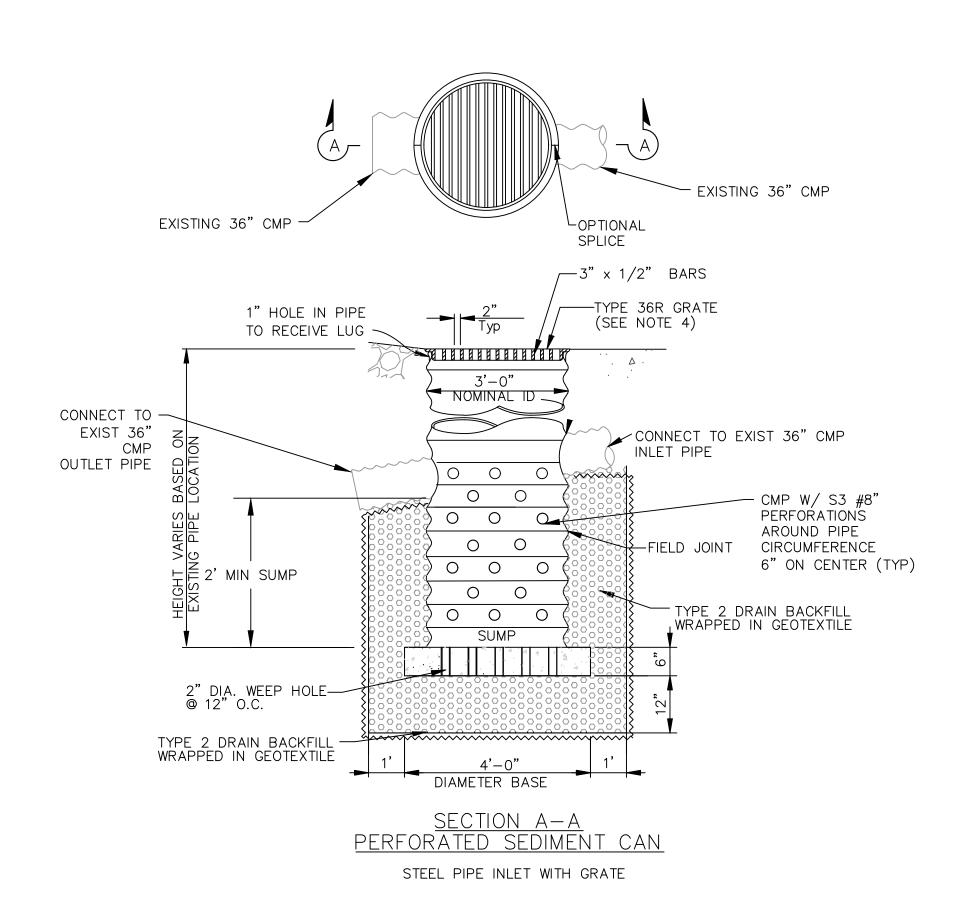


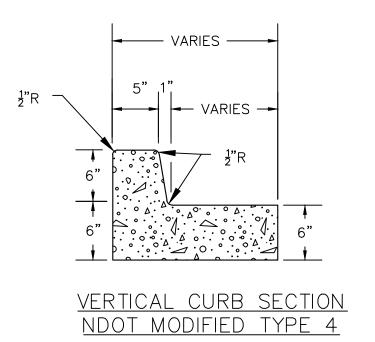
MK/MK CHECKED

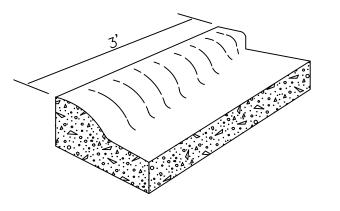
MG DATE

08/01/2016 SCALE AS SHOWN

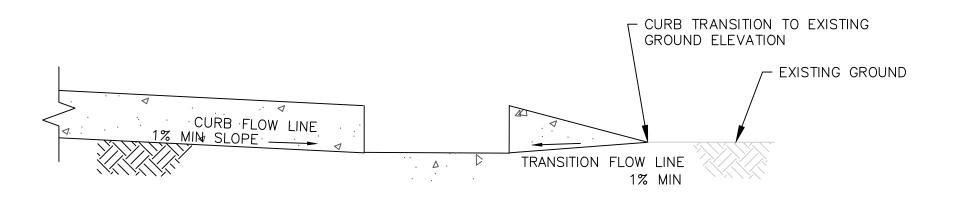
SHEET



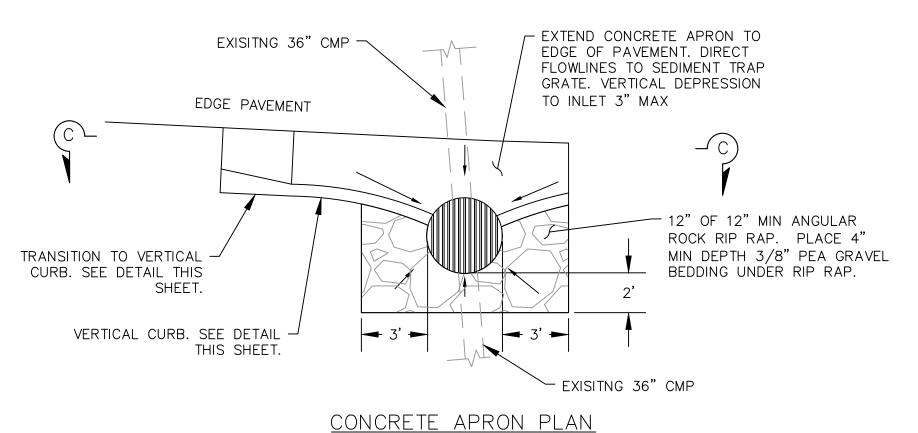


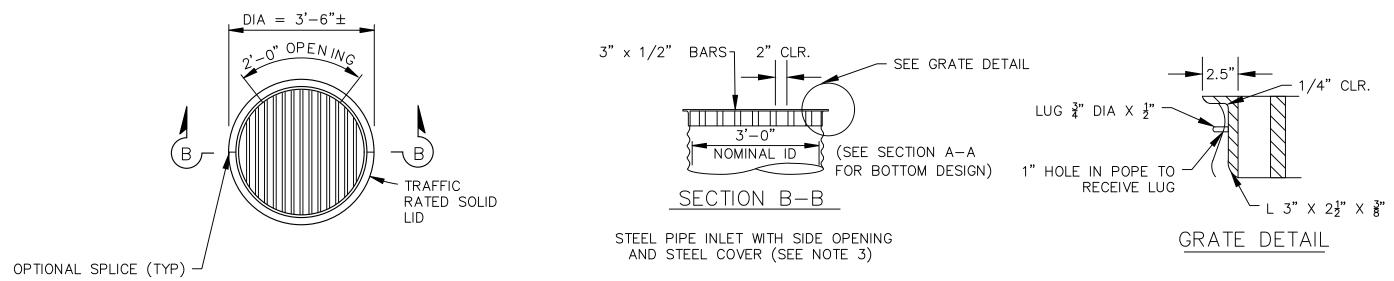


TRANSITION FROM ROLLED CURB TO VERTICAL FACE



# SECTION C-C

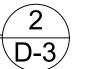




DETAIL B

- SEDIMENT TRAP NOTES:

  1. PLANS WILL NOTE WHERE CONNECTION TO EXISTING SD IS REQUIRED OR IF NEW STORM DRAIN NEEDS TO BE CONSTRUCTED.
- CMP SHALL BE 12 GAUGE AND 36" DIAMETER.
   INLET PIPES SHALL NOT PROTRUDE INTO BASIN.
   ALL HARDWARE TO BE GALVANIZED AFTER FABRICATION. SEE NDOT
- STANDARD SPECIFICATIONS OR SPECIAL PROVISIONS.
- 5. DEPRESSION FROM FLOW LINE TO SEDIMENT TRAP GRATE SHALL BE



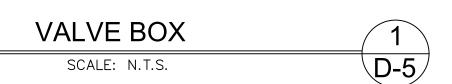
VALVE BOX NOTES:

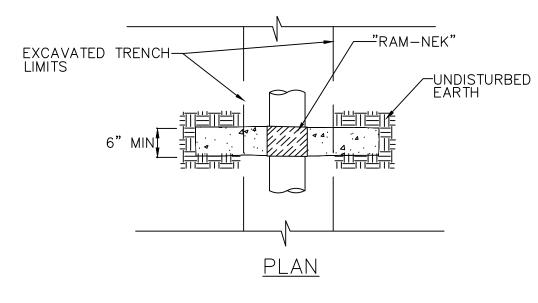
1. VALVE BOX MUST BE TRAFFIC RATED (CHRISTY G-5 BOX OR APPROVED

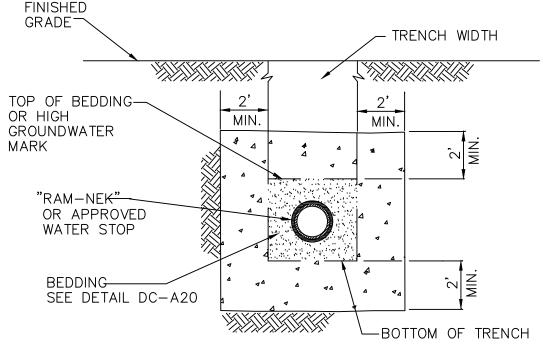
2. MINIMUM OF 10" INSIDE DIAMETER.

3. CAST IRON LID MARKED "WATER" FOR WATER LINE APPLICATIONS. CAST IRON LID MARKED "RECLAIMED WATER" OR "RCW" WHEN INSTALLED ON A RECLAIMED WATER MAIN. LID SHALL BE MARKED "SS FORCE MAIN" OR "SS FM" WHEN INSTALLED ON A SANITARY SEWER FORCE MAIN.

4. RISER OF 6" MAX PVC EXTENDED IN VALVE CAN A MINIMUM OF 6". 5. ALL NEW VALVE BOXES TO BE SET TO GRADE PER DETAIL 3/D-6. 6. SET VALVE BOX AND ONE POINT OF TRIANGULAR LID TO POINT IN DIRECTION OF WATER MAIN.







### WATER STOP NOTES:

1. WATER STOPS SHALL BE CONSTRUCTED AT 200' MAXIMUM SPACING IN GROUNDWATER CONDITIONS AND WHERE TYPE "C" BEDDING IS USED, AS DIRECTED BY THE ENGINEERING DIVISION.

2. WRAP PIPE WITH "RAM-NEK" OR EQUIVALENT WHERE PIPE IS EXPOSED TO CONCRETE PRIOR TO POURING.

3. USE LIGHT CONCRETE, TWO SACK SLURRY. IF DRYWALL IS USED FOR CONCRETE FORMS, IT MAY BE LEFT IN PLACE.



MAKE CONNECTION AT —

FLEXIBLE COUPLING -

EXISTING JOINT ONLY. DO

NOT CUT OR BREAK PIPE

EXISTING 10" ASBESTOS

RETAINER JCM INDUSTRIES INC

JCM 630 OR APPROVED EQUAL

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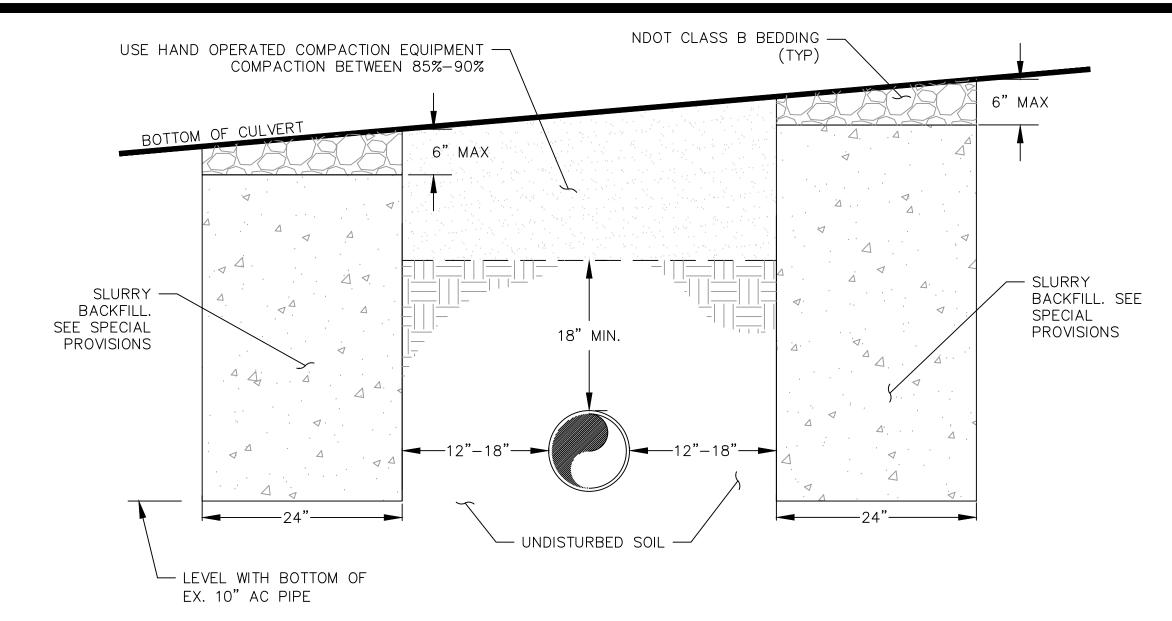
CEMENT PIPE

#5@2 12"

2' MIN 4' MAX

SCALE: N.T.S.

**EXISTING AC WATERLINE CONNECTION** 



1. PROVIDE 48 HOUR NOTIFICATION TO DCSID OF CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION, AS WELL AS FOR ANY CHANGES TO THAT SCHEDULE, TO ALLOW DCSID THE OPPORTUNITY TO INSPECT EACH STEP OF CONSTRUCTION IN THE VICINITY OF THEIR INFRASTRUCTURE PRIOR TO IT BEING COVERED

- 2. LOCATE EXISTING PIPE AT EACH END OF SLURRY SUPPORTS BY EXPOSING IT USING A NON-FORCE METHOD SUCH AS A VACTOR TRUCK OR HYDRO-EXCAVATION
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VERTICAL CURB-

(WHERE APPLICABLE)

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REVEGETATE BENEATH ROCK .

2' SETBACK FROM

CURB

(WHERE APPLICABLE)

PER REVEGETATION SPECIFICATIONS

LIMITS OF RIP-RAP PLACEMENT

DIRECTED BY ENGINEER

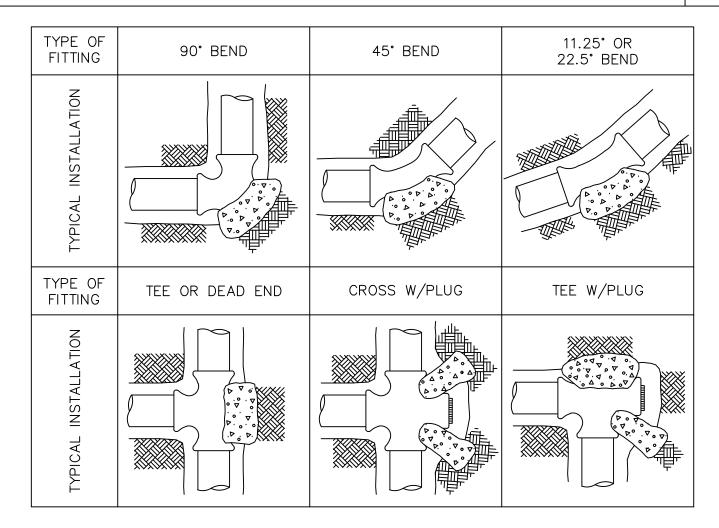
OF SLOPE

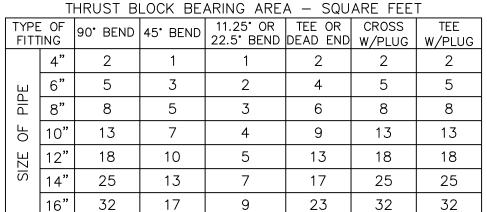
ROCKS TO ACHIEVE REQ'D HEIGHT

SUPPORT AS NECESSARY WITH SMALLER

CONTRACTOR SHALL PLACE TO TOP OF

SLOPE TO THE EXTENT POSSIBLE AND AS





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2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.

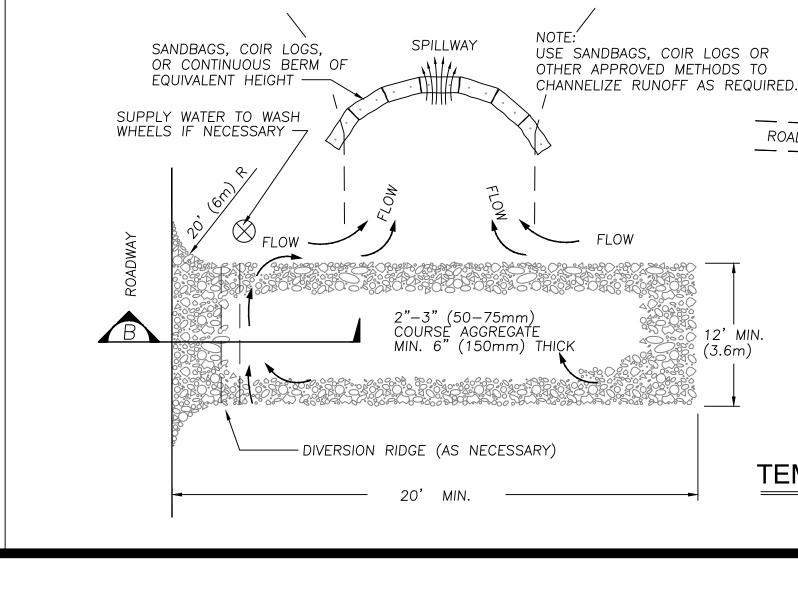
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SCALE: N.T.S.

THRUST BLOCKS

D-5



3/4 SST THREADED COUPLER AS NEEDED (TYP) - 3/4" SST ALL THREAD ROD (TYP) PROPOSED 10" C900 PVC (WHERE APPLICABLE) ROMAC INDUSTRIES DUCTILE IRON HARNESS LUG OR APPROVED EQUAL BACKFILL BEHIND CURB

D-5

SEDIMENT BASIN.

DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2% 2% OR GREATER TOWARD ROADWAY. 6" MIN HEIGHT ROADWAY -FILTER FABRIC ROCKED ENTRANCE SECTION B

**ROCKED ENTRANCE NOTES:** THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP

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TEMP. GRAVEL CONSTRUCTION ENTRANCE 6

NOT TO SCALE



# BURKE

SLOPES VARY

PLACE RIP-RAP WITH LARGEST

PROCEEDS TO TOP OF SLOPE

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DIAMETER SHALL BE CHINKED WITH ROCKS 3" TO 6" IN DIAMETER.

DECREASING SIZE AS PLACEMENT

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VOIDS LARGER THAN 4" IN

KELLY

Exp: 6/30/2017

ahoe Dist

DESIGNED/DRAWN MK/JB CHECKED MG DATE 05/13/2016 SCALE AS SHOWN

SHEET

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ROW OF CLASS 900 OR 20"Ø RIP-RAP

BOULDERS PLACED IN KEYTRENCH AT TOE

RECORD DRAWINGS 1/20/17

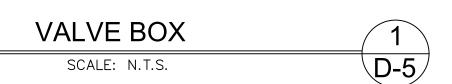
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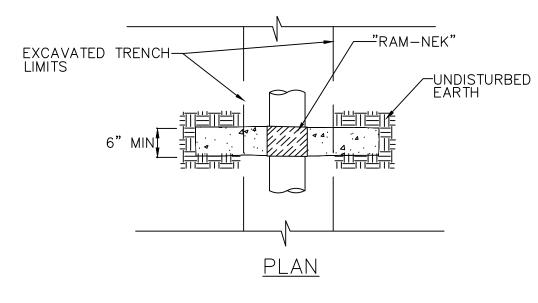
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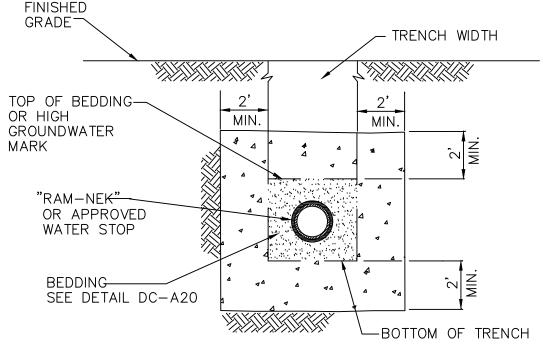
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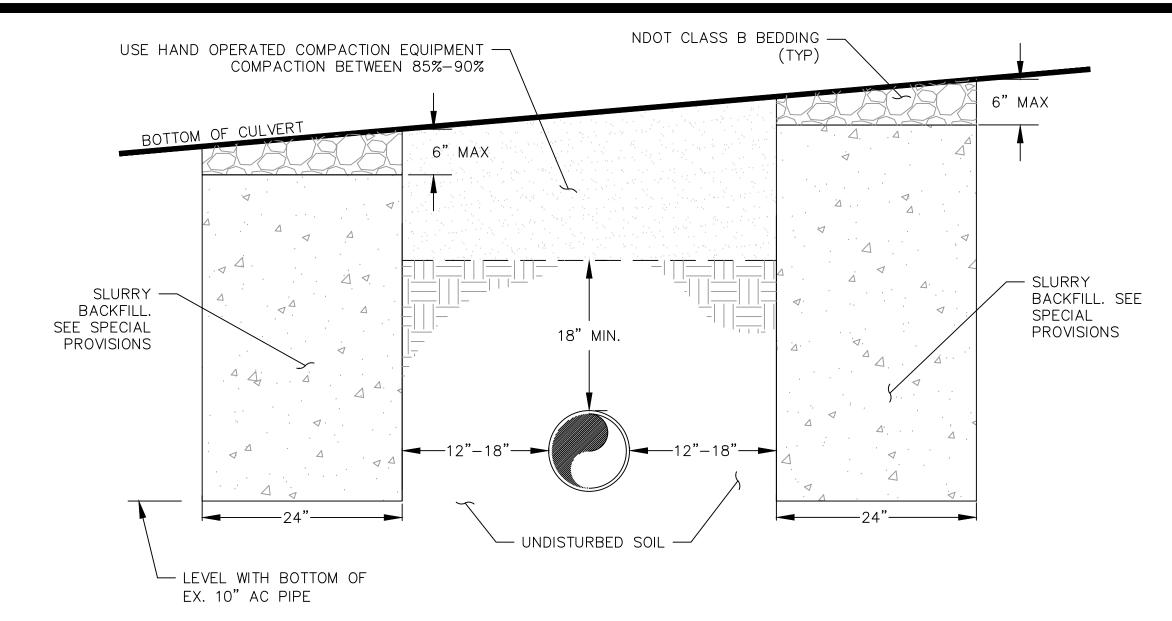
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LIMITS OF RIP-RAP PLACEMENT

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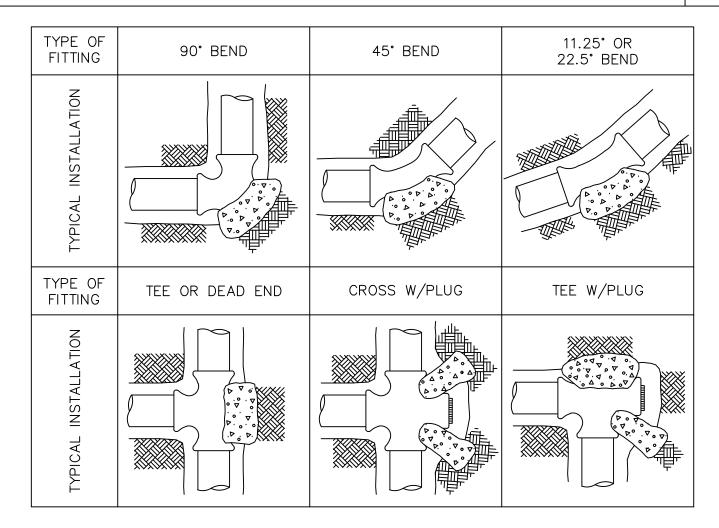
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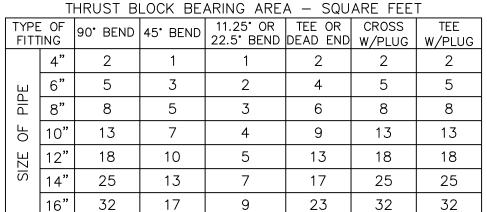
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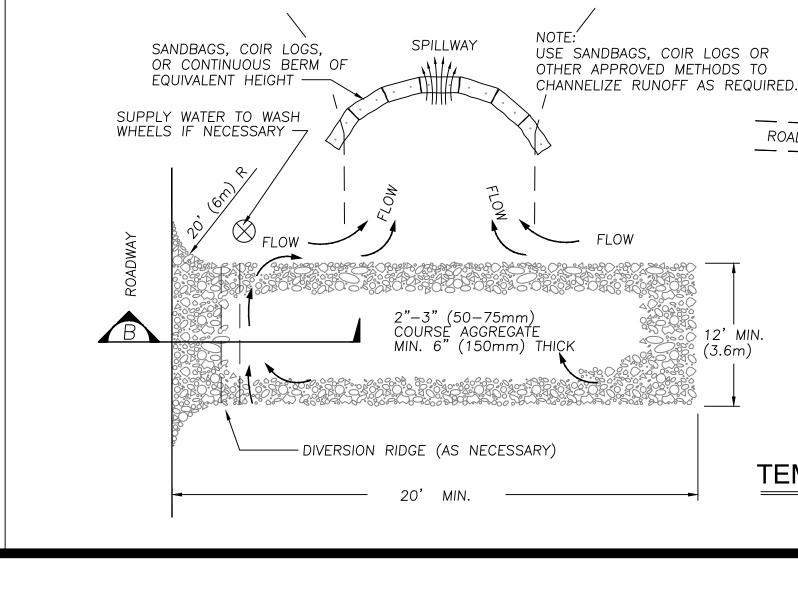
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SCALE: N.T.S.

THRUST BLOCKS

D-5



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NOT TO SCALE



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PLACE RIP-RAP WITH LARGEST

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DECREASING SIZE AS PLACEMENT

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Exp: 6/30/2017

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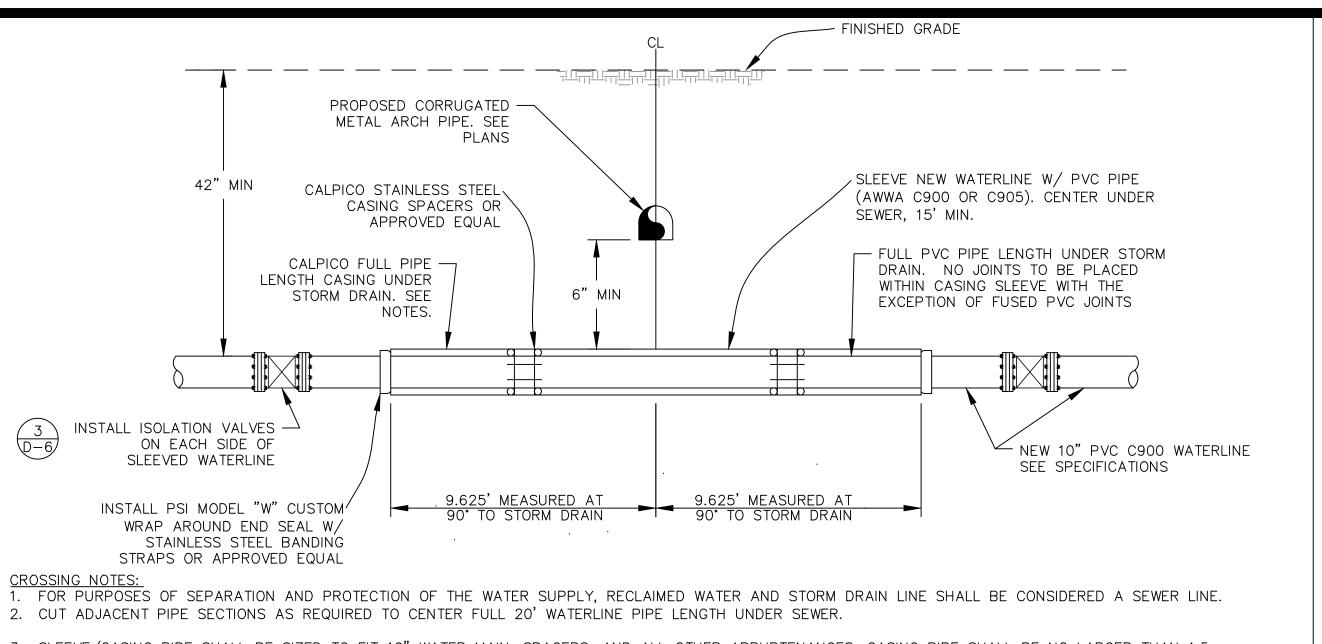
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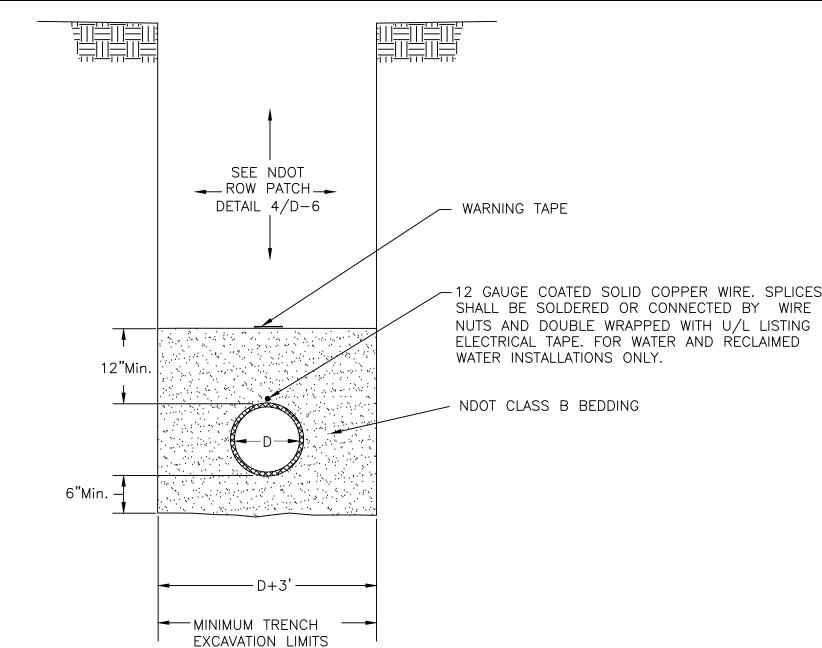
ROW OF CLASS 900 OR 20"Ø RIP-RAP

BOULDERS PLACED IN KEYTRENCH AT TOE

RECORD DRAWINGS 1/20/17



- 3. SLEEVE/CASING PIPE SHALL BE SIZED TO FIT 10" WATER MAIN, SPACERS, AND ALL OTHER APPURTENANCES. CASING PIPE SHALL BE NO LARGER THAN 1.5 TIMES THE O.D. OF THE WATER MAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE CORRECT DIAMETER OF CASING.
- 4. CONCRETE FOR THRUST BLOCKS SHALL NOT INTERFERE WITH THE REMOVAL OF BOLTED ASSEMBLIES.
- 5. ROUTING WATER LINE UNDER SEWER LINE REQUIRES APPROVAL BY THE WATER UTILITY.
- 6. CROSSING MUST COMPLY WITH NAC 445A
- 7. CMAP SHALL BE INSTALLED WITH NO JOINTS OVER WATERLINE



### WATER LINE TRENCH NOTES:

VARIES SEE

NOTE 1

BACKFILL 90%

(SEE NOTE 7&8)

12" MIN.

NDOT CLASS B -

BEDDING

COMPACTION

- 1. TRENCHES MORE THAN 4' DEEP SHALL BE SHORED, LAID BACK TO AT LEAST THE ANGLE OF REPOSE FOR EXISTING FIELD CONDITIONS, OR SOME OTHER MEANS OF PROTECTION SHALL BE PROVIDED.
- 2. IF HAZARDOUS FIELD CONDITIONS INDICATE GROUND MOVEMENT MAY BE EXPECTED, TRENCHES LESS THAN 4' DEEP SHALL BE PROTECTED AS INDICATED IN NOTE 1.
- 3. A TRAVEL LANE SHALL BE MAINTAINED. TRENCH EXCAVATION INCLUDING SHIELD AND SHORING SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS,
- FEDERAL REGISTER 29 CFR, PART 1926, SUBPART P. 4. ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT).
- -12 GAUGE COATED SOLID COPPER WIRE. SPLICES 5. SLURRY BACKFILL TRENCH TO BE USED WHEN UNABLE TO MAINTAIN A 12' TRAVEL LANE WITH THE STANDARD TRENCH OR AS DIRECTED BY THE ENGINEER.
  - COMPACTION SHALL BE PERCENT RELATIVE COMPACTION BASED ON THE MAXIMUM DRY DENSITY DETERMINED WITH TEST METHOD NO. NEV. T101.
  - 7. IN HIGH GROUND WATER, GRANULAR BACKFILL WRAPPED IN AN APPROVED GEOTEXTILE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
  - 8. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR ANY ADDITIONAL EXCAVATION OR BACKFILL REQUIRED FOR EXCAVATIONS TO MEET OSHA REGULATIONS.
  - 9. PLACE WARNING TAPE 1 FT. ABOVE WATER, AND RECLAIMED WATER PIPE.

Ç OF

VARIES SEE

NOTE 1

PIPE

GRANULAR

**←**D--

\_D+3<u>'</u>\_

NON ROADWAY LOCATIONS

N.T.S.

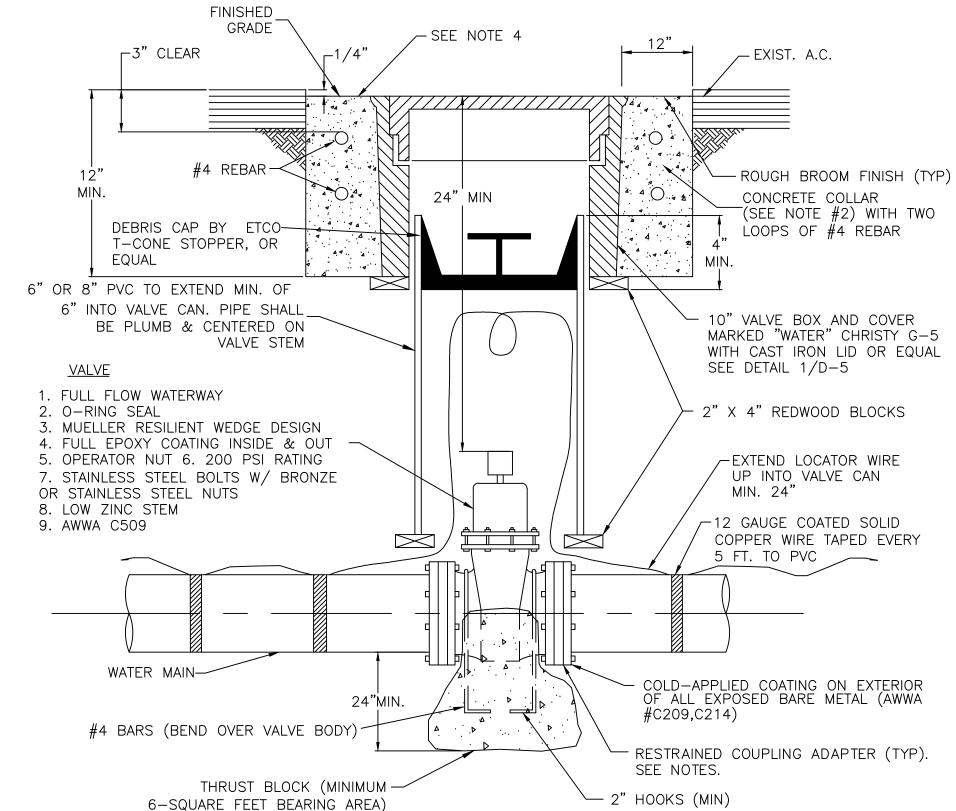
TRENCH EXCAVATION/BACKFILL

BACKFILL

10. WATER STOPS SHALL BE USED IN HIGH GROUND- WATER CONDITIONS PER DETAIL 2/D-5.



# WATER MAIN CROSSING \D-6 SCALE: N.T.S.

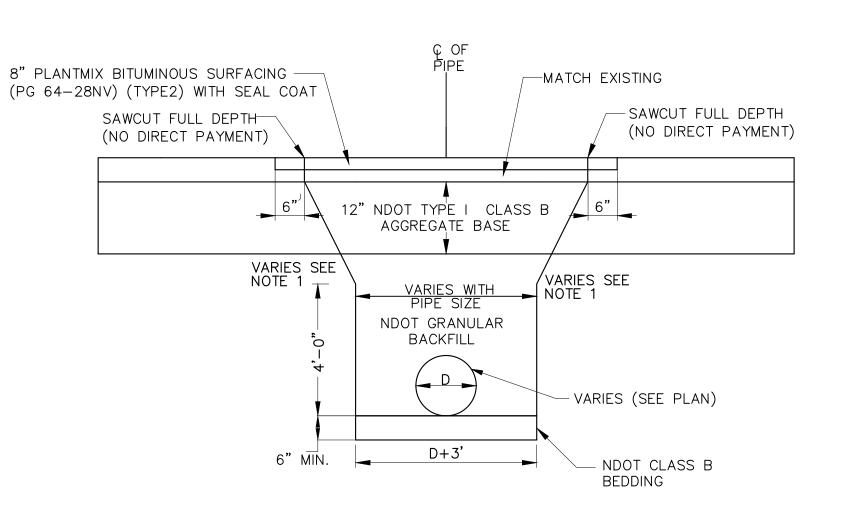


# <u>VALVE NOTES:</u>

- 1. MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY.
- 2. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 202.12 OF THE STANDARD SPECIFICATIONS.
- 3. IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED. 4. THE CONCRETE COLLAR SHALL BE 1/4" BELOW SURROUNDING PAVEMENT. APPLY BLACK COLORANT TO SURFACE OF CONCRETE.
- 5. SPLICES IN WIRE SHALL BE CONNECTED BY SOLDER OR WIRE NUTS AND WRAPPED WITH UL LISTED ELECTRICAL TAPE.
- 6. PROVIDE AND INSTALL EXTENSION STEMS SO THAT VALVE OPERATING NUT IS NOT GREATER THAN FIVE (5) FEET BELOW FINISHED GRADE.
- 7. THRUST BLOCK MAY BE ELIMINATED FOR FLANGED VALVES WITH MUELLER AQUAGRIP OR APPROVED EQUAL FLANGED RESTRAINT ADAPTOR. 8. PROVIDE PIPE POLYETHYLENE PROTECTIVE WRAP ON ALL VALVES, 8-MILS MINIMUM, SECURED WITH 2-INCH WIDE PRESSURE SENSITIVE

PLASTIC TAPE, 10-MILS MINIMUM.





TYPICAL PATCH DETAIL N.T.S.

# TRENCH/PATCHING NOTES:

- TRENCHES MORE THAN 4' DEEP SHALL BE SHORED, LAID BACK TO AT LEAST THE ANGLE OF REPOSE FOR EXISTING FIELD CONDITIONS, OR SOME OTHER MEANS OF PROTECTION SHALL BE PROVIDED.

  IF HAZARDOUS FIELD CONDITIONS INDICATE GROUND MOVEMENT MAY BE EXPECTED, TRENCHES LESS THAN 4' DEEP SHALL BE PROTECTED AS INDICATED IN NOTE 1.

  PAVING JOINTS IN ROADWAY TARE NOT THAT OF DATCH AREA.

- MATCH EXISTING STRIPING THROUGH LIMITS OF PATCH AREA.

  A TRAVEL LANE SHALL BE MAINTAINED. TRENCH EXCAVATION INCLUDING SHIELD AND SHORING SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS, FEDERAL REGISTER 29 CFR,
- PART 1926, SUBPART P.

  ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT).

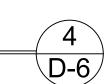
  SLURRY BACKFILL TRENCH TO BE USED WHEN UNABLE TO MAINTAIN A 12' TRAVEL LANE WITH THE STANDARD TRENCH OR AS DIRECTED BY THE ENGINEER.

  COMPACTION SHALL BE PERCENT RELATIVE COMPACTION BASED ON THE MAXIMUM DRY DENSITY DETERMINED WITH TEST METHOD NO. NEV. T101.
- 9. IN HIGH GROUND WATER, GRANULAR BACKFILL WRAPPED IN AN APPROVED GEOTEXTILE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.

  10. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR ANY ADDITIONAL EXCAVATION OR BACKFILL REQUIRED FOR EXCAVATIONS TO MEET OSHA REGULATIONS.

NDOT ROW TRENCH/PATCHING

SCALE: N.T.S.



RECORD DRAWINGS 1/20/17

ahoe Dist



CROSSING, PROJECT BURKE

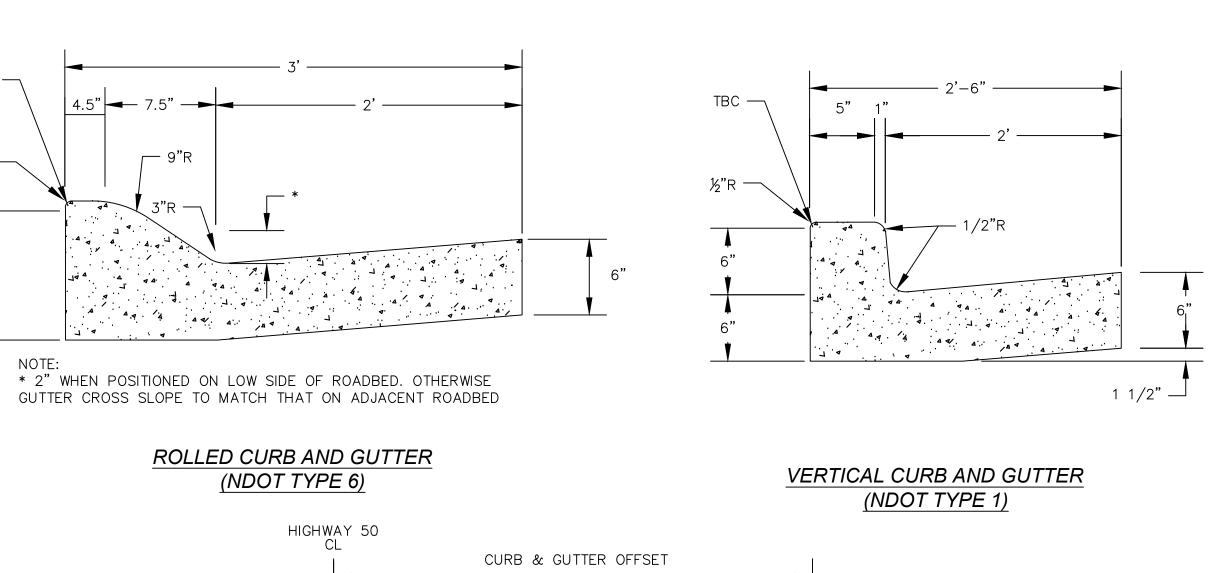
|DATE |DESCRIPTIO 6/23/16 ADDENDUM

> DESIGNED/DRAWN MK/JB CHECKED MG DATE

06/23/2016 SCALE AS SHOWN

PROJECT BCC

SHEET



## CURB & GUTTER SEE PLANS FOR TYPE EXISTING EOP > SAWCUT EXISTING AC. EXISTING ROADWAY-EXISTING SLOPE | | SEE NOTE 1 MATCH EXISTING SLOPE OR 2% - SEE NOTE EXISTING GROUND VARIES BACKFILL WITH NATIVE MATERIAL WHERE -6" MIN NDOT TYPE 1 NECESSARY TO MEET CLASS B AGGREGATE BASE GRADE UNDER CURB & GUTTER SEE NOTES FOR SUBGRADE PREPARATION 5" NDOT PLANTMIX BITUMINOUS SURFACE WITH SEAL COAT

NDOT ROW CURB AND

**GUTTER INSTALLATION** 

-8" NDOT TYPE 1 CLASS B AGGREGATE BASE

1/20/17

KELLY

Exp: 6/30/2017

CROSSING, ROJECT

BURKE

DESIGNED/DRAWN

MK/MK

CHECKED

DATE

05/13/2016

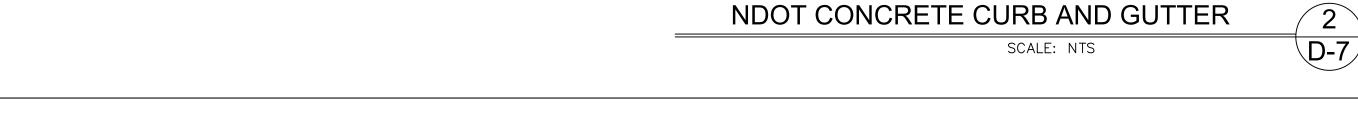
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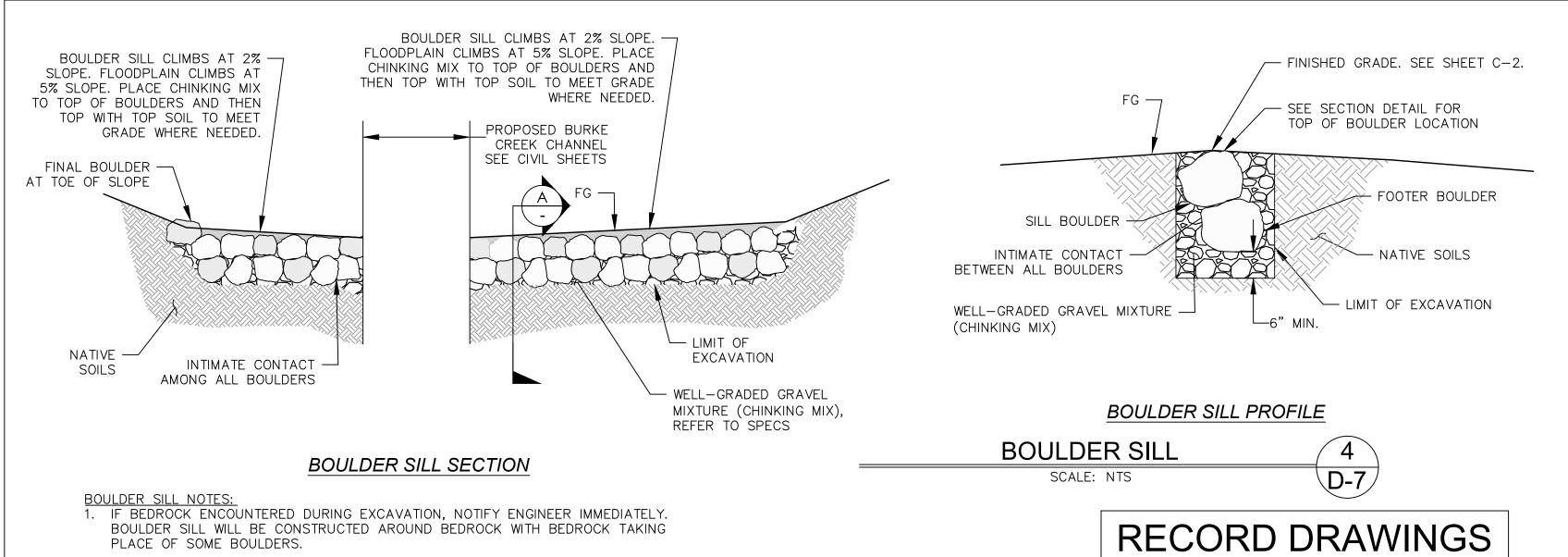
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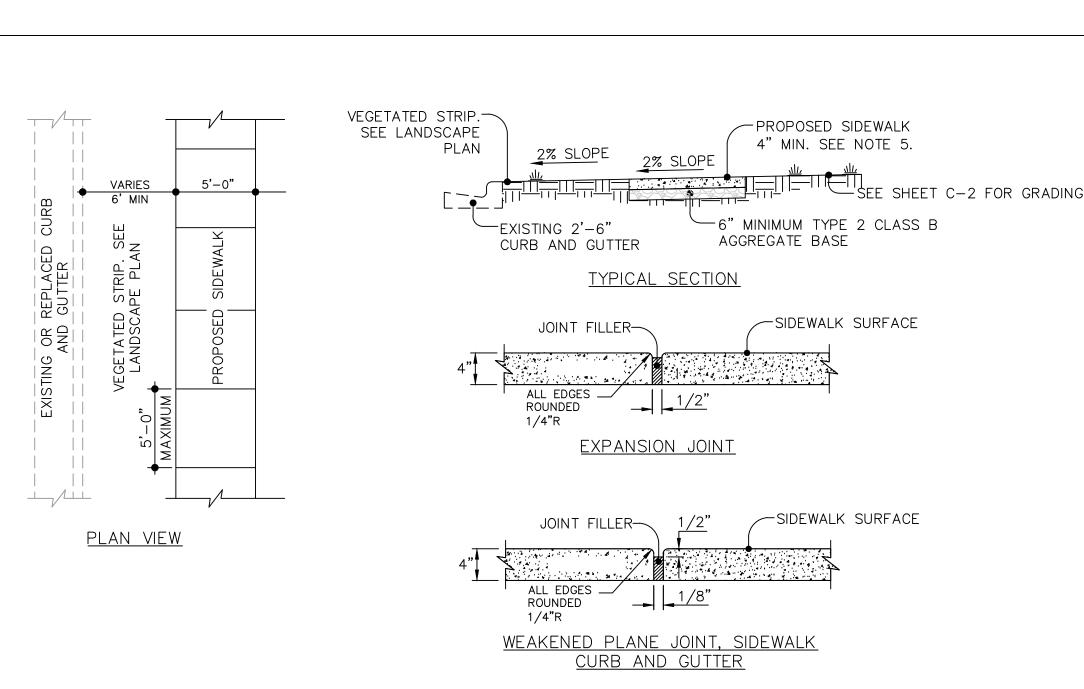
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SYSTEMS SHALL COMPLY WITH CURRENT OSHA SAFETY REGULATIONS, FEDERAL REGISTER 29 CFR, PART 1926, SUBPART P. ALL MATING SURFACES SHALL BE TACK COATED PRIOR TO PAVING (NO DIRECT PAYMENT) 6. PREPARE SUBGRADE 6" MIN PER NDOT STANDARD SPECIFICATION SECTION 302







1. ALL CONCRETE SHALL BE REMOVED AT EXISTING JOINTS. SEE SECTION 311.10.07 OF THE STANDARD SPECIFICATIONS "CONSTRUCTION JOINTS" FOR POURING CONCRETE NEXT TO EXISTING CONCRETE

2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.

3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED EVERY 5 FEET. THE JOINTS SHALL PENETRATE TO A DEPTH OF 2 INCHES AND BE CONSTRUCTED IN CONFORMANCE WITH SECTION 312.09.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

4. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED IN SECTION 312.09.01A OF THE STANDARD SPECIFICATIONS

FOR PUBLIC WORKS CONSTRUCTION.

5. TYPE 2, CLASS B AGGREGATE BASE SHALL CONFORM TO SETION 20 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

. CONCRETE SIDEWALKS ADJACENT TO DRIVEWAYS SHALL HAVE A MINIMUM THICKNESS OF 6".

NO OBSTRUCTIONS, SUCH AS UTILITY POLES, SIGNAL POLES AND CONTROLS, WATER METER BOXES, PULL BOXES, ETC. ARE ALLOWED WITHIN SIDEWALKS.

8. PROPOSED SIDEWALK SHALL BE TRANSITIONED TO EXISTING 4' SIDEWALK FOR 1' MINIMUM LENGTH.

