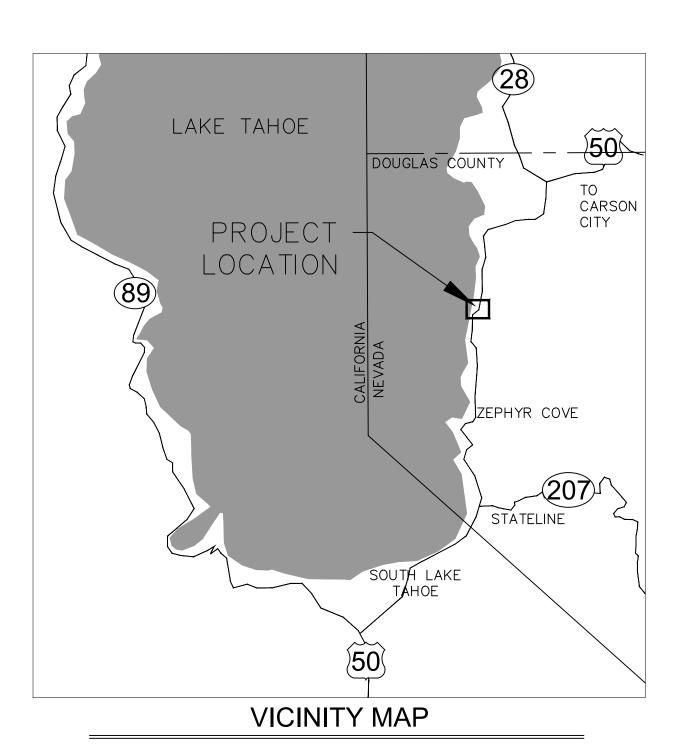
NEVADA TAHOE CONSERVATION DISTRICT PITTMAN TERRACE WATER QUALITY IMPROVEMENT PROJECT

IN THE COUNTY OF DOUGLAS EIP #01.01.01.17



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NOT TO SCALE

ENGINEER:



4/10/18

DATE

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

APPROVAL:

ERIK NILSSEN, P.E. DOUGLAS COUNTY ENGINEER DATE







SCALE: 1" = 150'









TITLE PITTMAN TERRACE WATER QUALIT IMPROVEMENT PROJECT

DESIGNED/DRAWN
MBG/CFW
CHECKED
MCK
DATE
04/2018
SCALE
AS SHOWN

SCALE
AS SHOWN
PROJECT
PT
SHEET

GENERAL NOTES

- ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF (NDOT). IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("ORANGE BOOK" OR "STANDARD SPECIFICATIONS"). ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE AMENDED SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL TECHNICAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK. CONSTRUCTION OR INSTALLATIONS ASSOCIATED WITH THIS PERMIT, THE PERMITTEE SHALL NOTIFY THE DOUGLAS COUNTY INSPECTOR AT (775)782-62370F INTENT TO BEGIN AND REQUEST/SCHEDULE PRECONSTRUCTION MEETING AT THE PROJECT SITE WITH DOUGLAS COUNTY CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED ABOVE SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- CONTRACTOR'S SHALL COMPLY WITH THE REQUIREMENTS TO OBTAIN THE NECESSARY SITE IMPROVEMENT PERMITS AND SHALL COMPLY WITH THE SITE IMPROVEMENT PERMIT CONDITIONS AS FOUND ON THE BACK OF THE PERMIT FORM.
- THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES
- THE CONTRACTOR IS ADVISED THAT DAMAGE TO PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEERING INSPECTOR. UNLESS OTHERWISE APPROVED BY THE COUNTY, ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES AND SYSTEMS AS A RESULT OF CONTRACTOR'S ACTIVITIES 29. REINFORCING STEEL SHALL BE GRADE 40 AND 1.5 INCHES MINIMUM CLEAR COVER. SHALL BE BORNE BY THE CONTRACTOR.
- 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
- MOBILIZATION/STAGING AND STORAGE AREAS ARE TO BE SECURED BY THE CONTRACTOR AND APPROVED BY TRPA. THE 32. GRATES SHALL BE PLACED OUTSIDE OF THE PEDESTRIAN TRAVELED WAY. GRATE OPENINGS SHALL NOT EXCEED 0.5 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF MOBILIZATION SITES, INCLUDING PLACEMENT AND MAINTENANCE OF BMPS.
- 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. 34. FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND DEBRIS, SCARIFIED, AND BE APPROVED BY THE ENGINEER OF 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.
- O. 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 EXCAVATION. 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. NOTE THAT MANY OF THE UTILIZES ARE PRIVATE AND MAY NOT BE IDENTIFIED BY USA.
- 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 BREAKOUTS.
- 13. 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.
- 4. THE CONTRACTOR WILL PROVIDE INITIAL TESTING AND INSPECTION OF WORK AND MATERIAL AT CONTRACTOR'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.
- 5. 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.
- . 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.
- . ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS. ALL OPERATIONS SHALL COMPLY WITH PERMIT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. THE CONTRACTOR WILL PROVIDE SWEEPING PER SPECIFICATION.
- 18. ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED PER TRPA.
- 19. 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.
- 20. 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.
- 21. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREA WHENEVER POSSIBLE. NO MATERIAL SHALL BE STORED IN ANY STREAM ENVIRONMENT ZONE (SEZ) OR WET AREA.
- 22. 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.
- 23. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.

25. ALL CONSTRUCTION SHALL BE WINTERIZED BY OCTOBER 15 TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH

- 24. NO VEHICLE OR HEAVY EQUIPMENT SHALL BE ALLOWED IN A STREAM ENVIRONMENT ZONE OR WET AREA EXCEPT AS AUTHORIZED BY TRPA.
- 26. 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.

27. 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.

- NEVADA TAHOE CONSERVATION DISTRICT (NTCD), DOUGLAS COUNTY, & THE NEVADA DEPARTMENT OF TRANSPORTATION 28. 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.q. AND THE PROJECT
 - 25. TRAFFIC CONTROL AND LANE CLOSURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PER NDOT STANDARD SPECIFICATIONS OR DOUGLAS COUNTY STANDARDS WHERE APPICABLE. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN ALL APPICABLE PERMITS. ANY ROAD CLOSURES REQUIRE THE CONTRACTOR TO OBTAIN A ROAD CLOSURE PERMIT FROM DOUGLAS COUNTY.
 - 26. ACCESS TO HOMES AND PUMP STATIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION
 - 27. IF A FIRE HYDRANT IS NEEDED TO OBTAIN CONSTRUCTION WATER. THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT METER FROM DOUGLAS COUNTY PUBLIC WORKS OR APPLICABLE WATER PURVEYOR AND PAY ALL APPLICABLE FEES AND CHARGES.
 - 28. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI), MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SECTION 202.

MANHOLE

MAXIMUM

- 30. ALL STORM DRAIN PIPE AND STRUCTURES SHALL BE CLEANED OF SEDIMENT AND DEBRIS PRIOR TO ISSUANCE OF A NOTICE OF COMPLETION OR CERTIFICATE OF OCCUPANCY.
- 31. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE STORM DRAIN UTILITY.
- INCHES IN WIDTH OR 4 INCHES IN LENGTH, GRATES SHALL BE TRAFFIC RATED AND ADA COMPLIANT.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL INSTALL TEMPORARY BMP MEASURES AT LOCATIONS WHERE NEEDED 33. SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, OR AS DETERMINED BY THE GEOTECHNICAL TO CONTROL EPOSION AND WATER POLICY OF THE GOVERNMENT OF THE GEOTECHNICAL
 - RECORD PRIOR TO THE PLACING OF FILL.

ABBREVIATIONS

NOT ALL AB	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
©	AT	MIN.	MINIMUM
APPROX.	APPROXIMATE	MISC.	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
C&G	CURB AND GUTTER	NTCD	NEVADA TAHOE CONSERVATION DISTRICT
CATV	CABLE TELEVISION	N.T.S.	NOT TO SCALE
C.B.	CATCH BASIN	NO.	NUMBER
CBM	CHANNEL BED MATERIAL	00	ON CENTER
CL	CENTERLINE	OD OFF	OUTSIDE DIAMETER
CLF	CONSTRUCTION LIMIT FENCE	OG	OFFSET ORIGINAL GRADE
CLR.	CLEAR	OH(E/T)	OVERHEAD ELECTRIC OR TELEPHONE LINES
CO.	CLEAN OUT	±	PLUS OR MINUS
CONST. CF	CONSTRUCT CUBIC FEET	PT.	POINT
CMP	CORRIGATED METAL PIPE	PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT
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	DEGREE(S)	PVC	POLYVINYL CHLORIDE
D.G.	DECOMPOSED GRANITE	PVMT	PAVEMENT
DI	DROP INLET	POC	POINT ON CURVE
DIA.	DIAMETER	POS	POSITIVE
DR	DIMENSION RATIO	PRC	POINT OF REVERSE CURVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DW, DWY	DRIVEWAY	PL	PROPERTY LINE
EA.	EACH	PO	PUSH ON
EASE.	EASEMENT	PUE	PUBLIC UTILITY EASEMENT
EG	EXISTING GRADE	R	RADIUS
ELEC	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
EP OB EL	EDGE OF PAVEMENT	REVEG	REVEGATATION
ELEV. OR EL EC		RLC	ROCK LINED CHANNEL
	END CURVE EACH WAY EACH FACE	RT,R	RIGHT
EX.	EXISTING	R/W, ROW	RIGHT-OF-WAY
FG	FINISH GRADE	S	SLOPE OR SOUTH
FH	FIRE HYDRANT	SD	STORM DRAIN MANUALE
	FLANGE COUPLER ADAPTER	SDMH	STORM DRAIN MANHOLE
	FLARED END SECTION (METAL)	SDR SF	STANDARD DIMENSION RATIO
FF	FILTER FENCE	SHT	SQUARE FOOT/FEET SHEET
FL	FLOWLINE	STA	STATION
FLG	FLANGED	STD	STANDARD
FT.	FOOT, FEET	SS	SANITARY SEWER, STAINLESS STEEL
FTG	FOOTING	SSCO.	SANITARY SEWER CLEAN OUT
F۷	FLUSH_VALVE	SSMH	SANITARY SEWER MANHOLE
	DEGREE	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS
G	GAS	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GV	GATE VALVE	SY	SQUARE YARD
GB	GRADE BREAK	TBC	TOP BACK OF CURB
HDPE ND	HIGH DENSITY POLYETHYLENE NON—PERFORATED HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
HDPE_P	PERFORATED HIGH DENSITY POLYETHYLENE	TRPA	TAHOE REGIONAL PLANNING AGENCY
HP	HIGH POINT	ŢW	TOP OF WALL
HOR., HORIZ.		(TYP)	TYPICAL
HWY	HIGHWAY	UGE	UNDERGROUND ELECTRIC LINES
IN.	INCH	UGT	UNDERGROUND TELEPHONE LINES
ΪΕ	INVERT ELEVATION	VC	VERTICAL CURVE
iRR.	IRRIGATION	VG VPC	VALLEY GUTTER
L	LEFT	VPC VPI	VERTICAL POINT OF CURVATURE VERTICAL POINT OF INFLECTION
LEN.	LENGTH	VPT	VERTICAL POINT OF INFLECTION VERTICAL POINT OF TANGENT
	LINEAR FEET	W	WATER
	LOW IMPACT DEVELOPMENT	WL	WATERLINE
	LOW POINT	W	WEST
LS MH	LUMP SUM MANHOLF	W/	WITH
N/I I	MANIHUU E	,	

WATER METER

LEGEND

NOTE: LEGENDS PROVIDED ON INDIVIDUAL PLAN SHEETS OVERRIDE THIS LEGEND

CONTROL POINT

PRIVATE DRIVEWAY

ASSESSOR PARCEL NUMBER

BUILDING

ROCK LINED CHANNEL

EXISTING ROCK WALL

JOHN A. SMITH OWNER (PRIVATE LOT)

EXISTING	_	PROPOSED	_
	MAJOR CONTOUR		MAJOR CONTOUR
	MINOR CONTOUR		MINOR CONTOUR
6695	EXISTING MAJOR CONTOUR LABEL	6694	PROPOSED MAJOR CONTOUR LABEL
	EXISTING ALIGNMENT		PROPOSED ALIGNMENT(ROAD CENTERLIN
	EXISTING GRADE (SECTION VIEW)		GRADING DAYLIGHT LINE/GRADING LIMIT
	PROPERTY LINE		GRADING LINE/FEATURE LINE
	EXISTING FENCE		PROPOSED GRADE (SECTION VIEW)
	OR PAVEMENT	— CLF —	CONSTRUCTION LIMIT FENCE
— SD —	STORM DRAIN LINE	— FF —	FILTER FENCE
	CATCH BASIN	·	SEDIMENT ROLL
(MH)	STORM DRAIN MANHOLE		EROSION CONTROL BLANKET
W	WATER LINE		STAGING AREA
[WM]	WATER METER/ VALVE		PROPOSED PIPE
SS	SANITARY SEWER LINE		PROPOSED CONCRETE
SS	SANITARY SEWER MANHOLE	Ψ Ψ Ψ	PROPOSED VEGETATION/WILLOW
OH E	OVERHEAD ELECTRIC LINE		ROCK LINED CHANNEL (PLAN VIEW)
-0-	POWER POLE	+ + + + + + +	SEDIMENT REMOVAL
	UNDER GROUND TELEPHONE LINES		DOCK (SECTION VIEW)
— ОН Т—	OVERHEAD TELEPHONE LINES		ROCK (SECTION VIEW)
—— UG F O —	UNDERGROUND FIBER OPTIC LINES		ROCK DISSIPATER
—— GAS ——	UNDERGROUND GAS LINES		
	DRAINAGE		PROJECT BOUNDARY
	TREE	-0	PROPOSED FENCE (TYPE SPECIFIED ON PLAN)
8	FIRE HYDRANT		
	CURB		
A A	OR —— CONCRETE		
^			

UTILITIES

CHARTER COMMUNICATIONS, (775) 588-1077 CABLE TELEVISION NATURAL GAS ELECTRIC NV ENERGY, (775) 834-4444 STORM DRAIN DOUGLAS COUNTY PUBLIC WORKS (775) 782-9989 SEWER DOUGLAS COUNTY SEWER IMPROVEMENT DISTRICT (775) 588-3558 WATER PRIVATE SYSTEMS PHONE FRONTIER (775) 782-0966 USA DIGS (800) 642-2444 OR 811

HORIZONTAL AND VERTICAL PROJECTION

VERTICAL CONTROL IS DATUM NAVD 88 (US FEET); HORIZONTAL CONTROL IS HORIZONTAL DATUM NAD 83 STATE PLANE COORDINATE SYSTEM NEVADA ZONE WEST (U.S. FEET).

DESIGNED/DRAWN MBG/CFW CHECKED MCK DATE 04/2018 SCALE AS SHOWN PROJECT SHEET



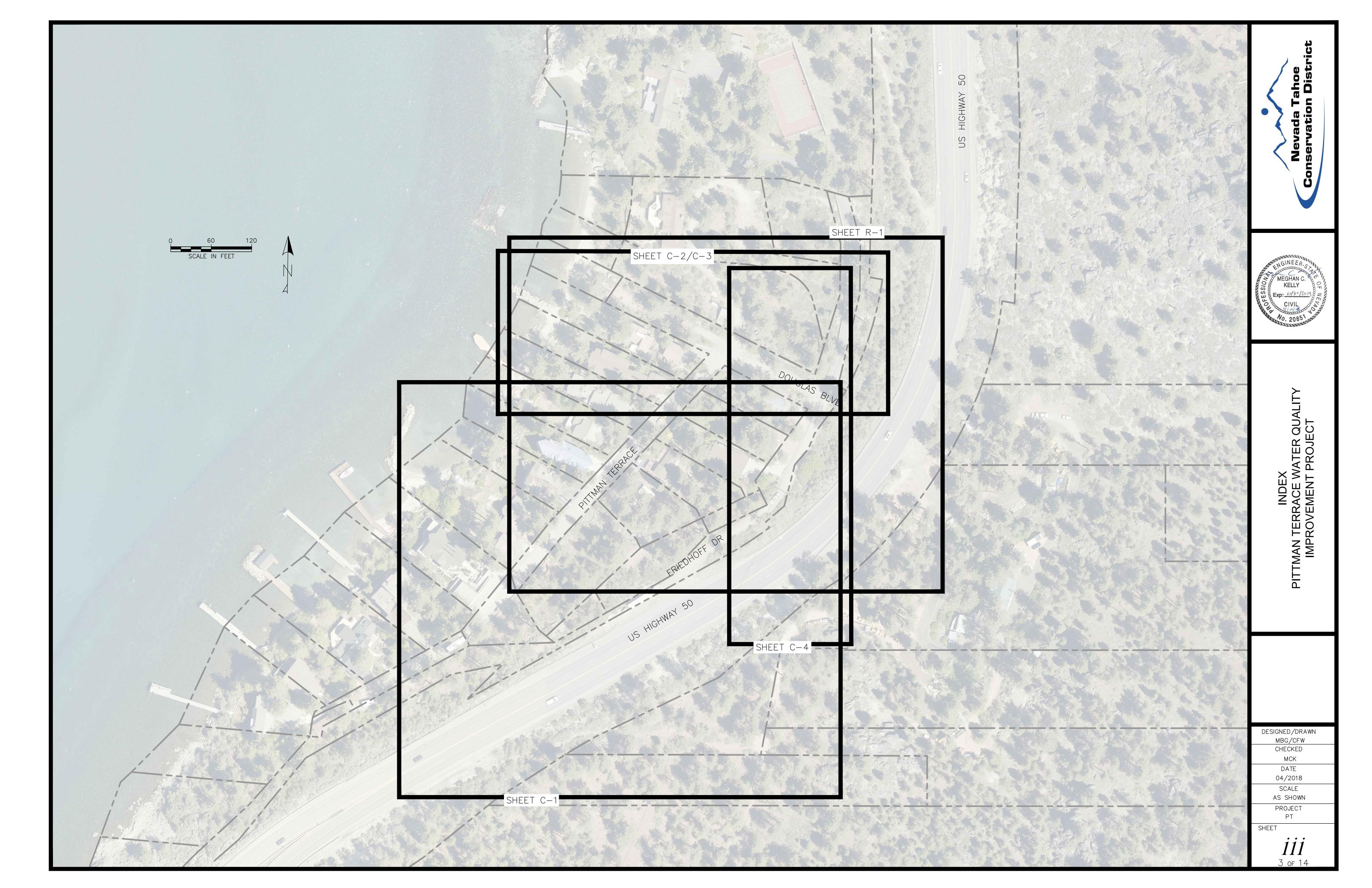
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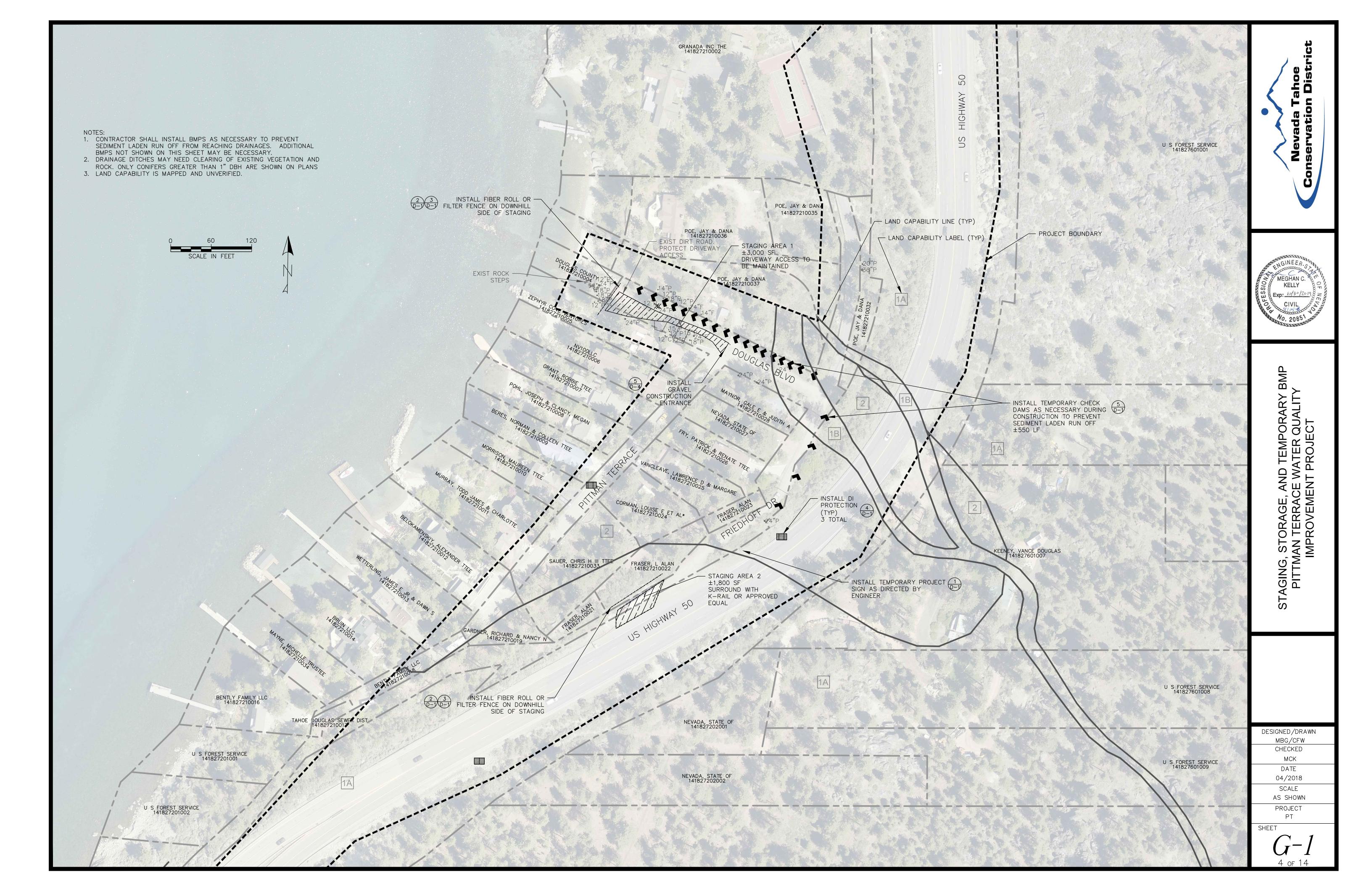
SECTION OR DETAIL IDENTIFICATION

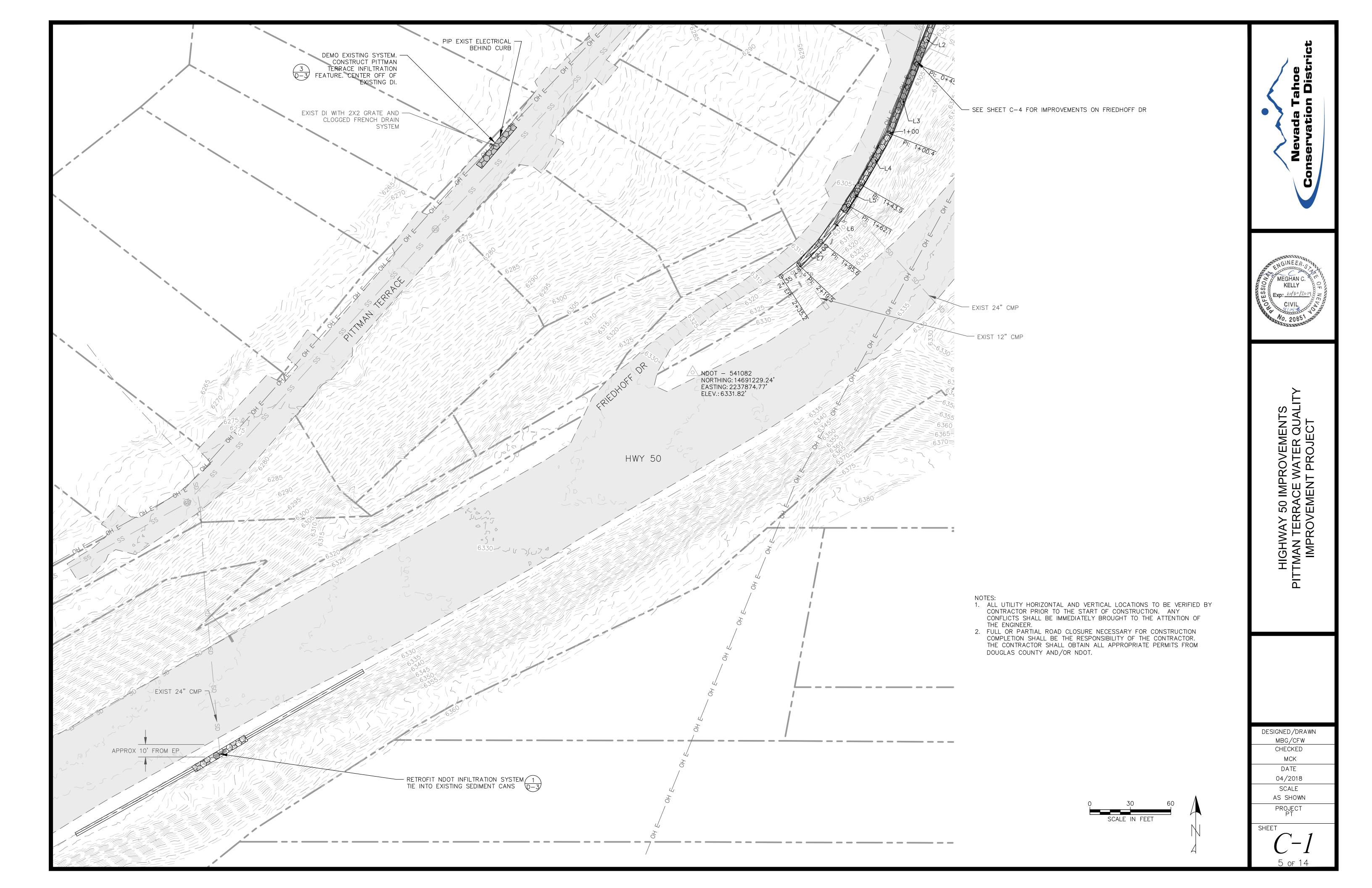
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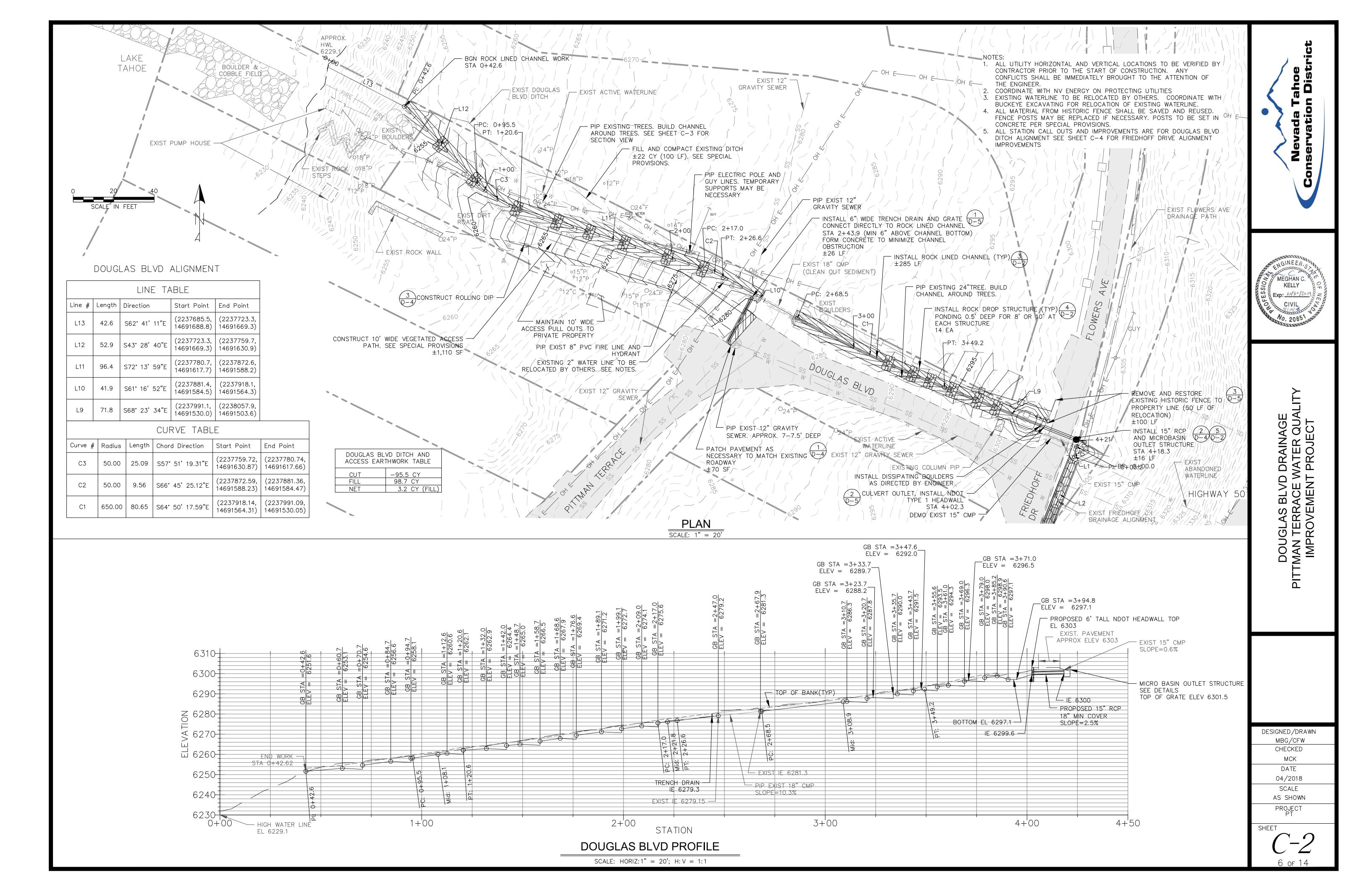
- SYMBOL FOR DETAIL ON THE SAME

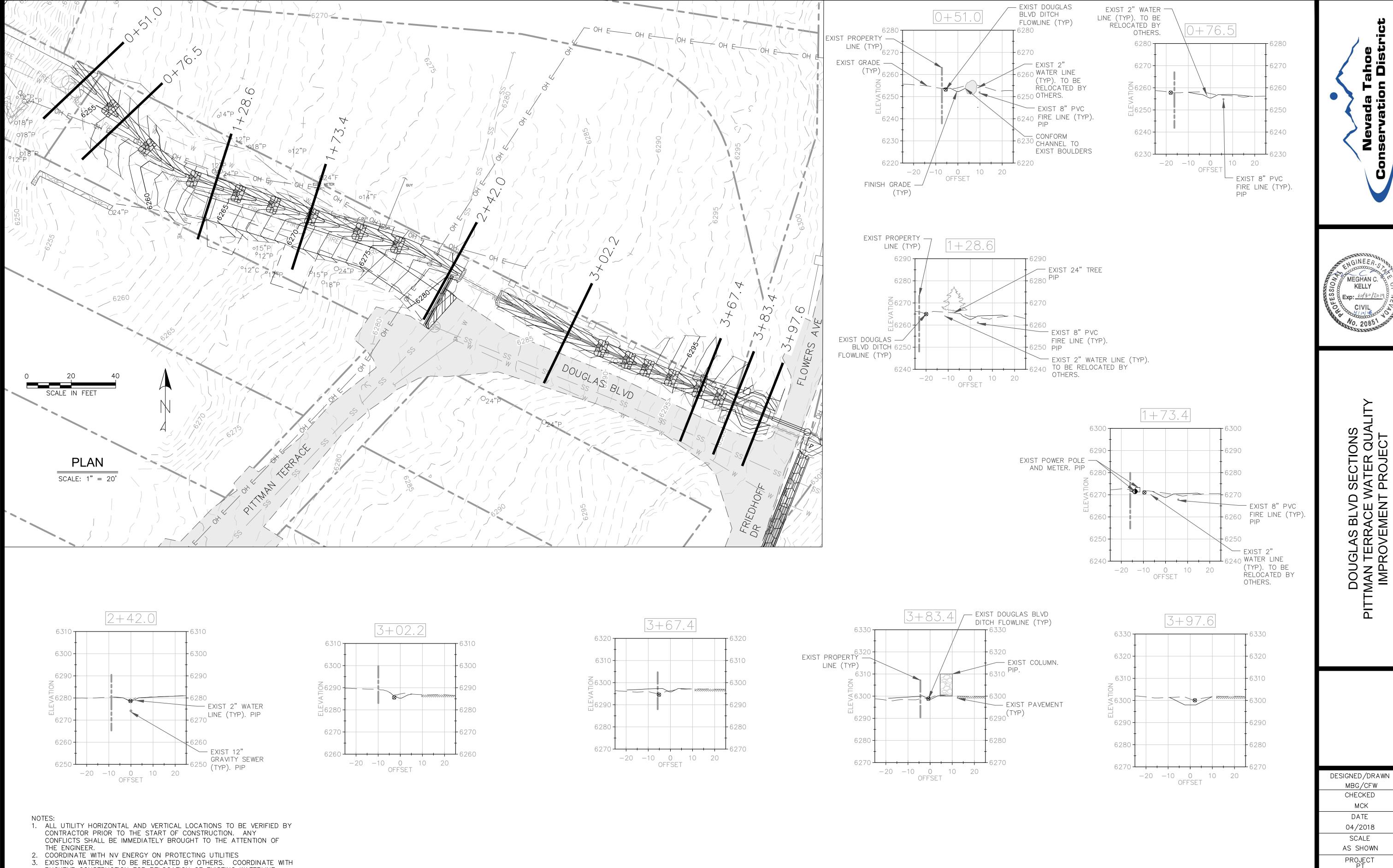
NUMBER OF SHEET ON WHICH SECTION OR DETAIL IS DRAWN











MCK DATE 04/2018 SCALE AS SHOWN PROJECT PT SHEET

KELLY

SCALE: HORIZ:1" = 20'; H:V = 1:1

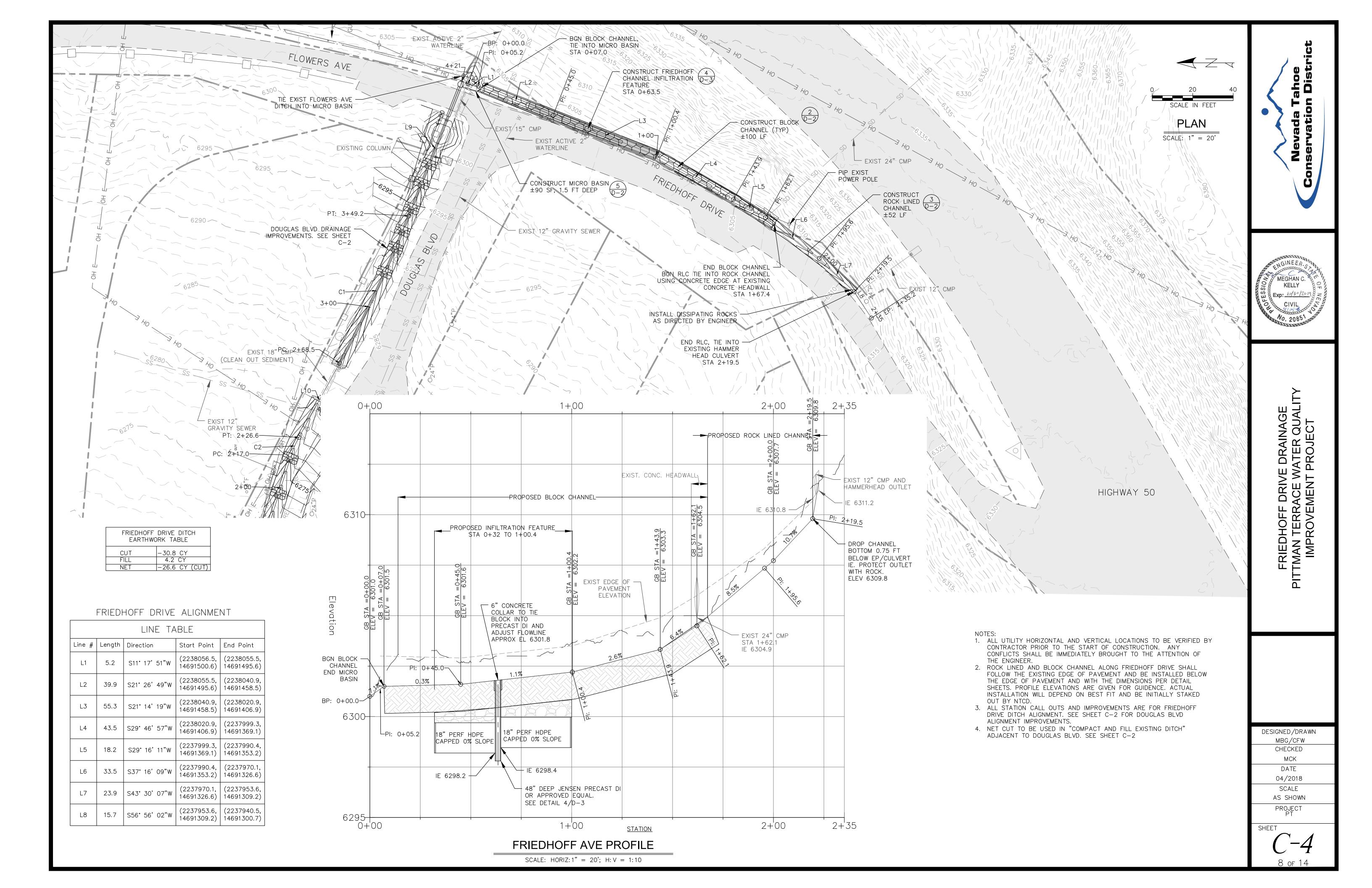
DOUGLAS BLVD SECTIONS

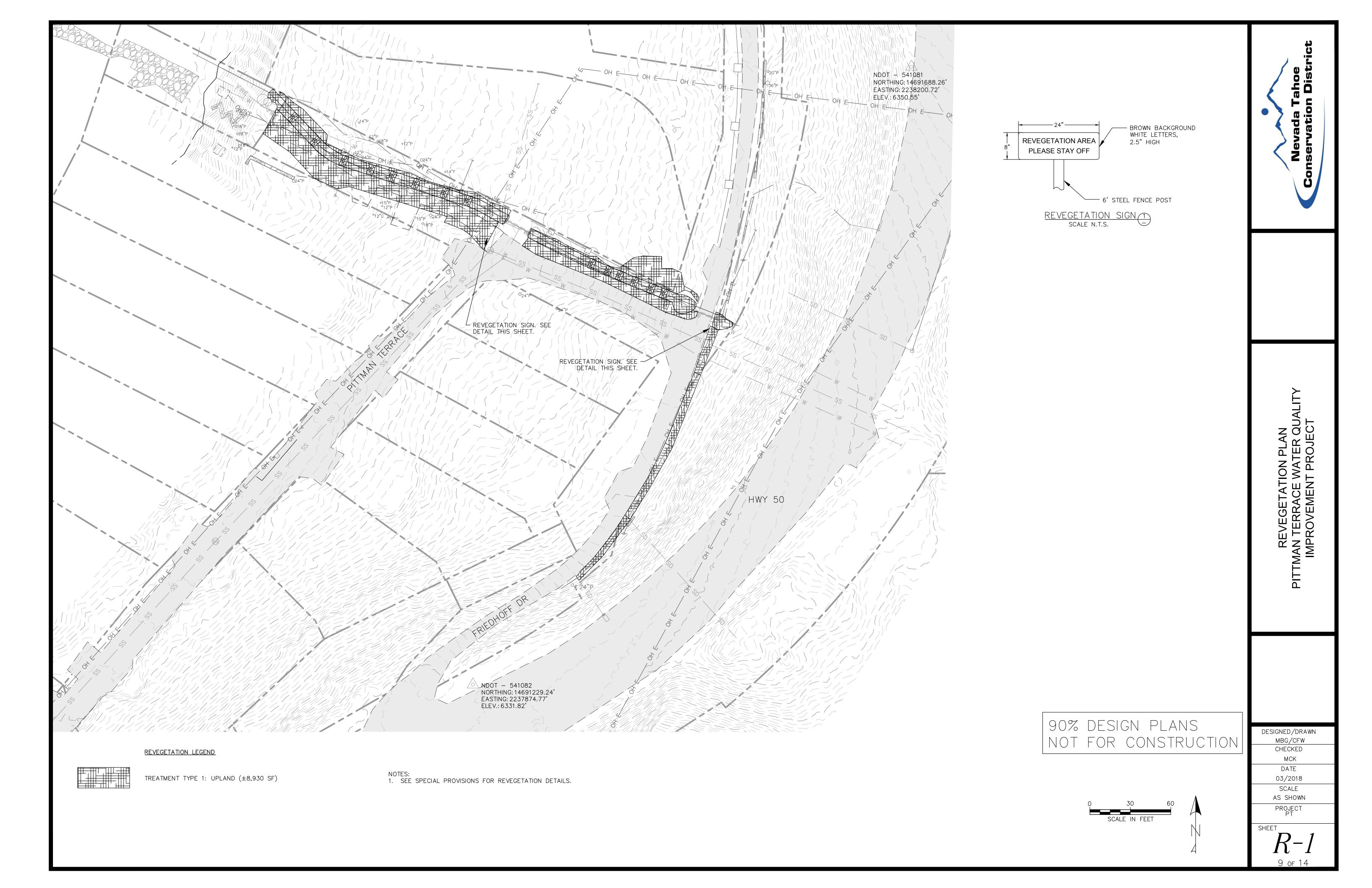
BUCKEYE CONSTRUCTION FOR RELOCATION OF EXISTING WATERLINE. LOCATION OF ABANDONED WATERLINE ON UPSTREAM PORTION OF

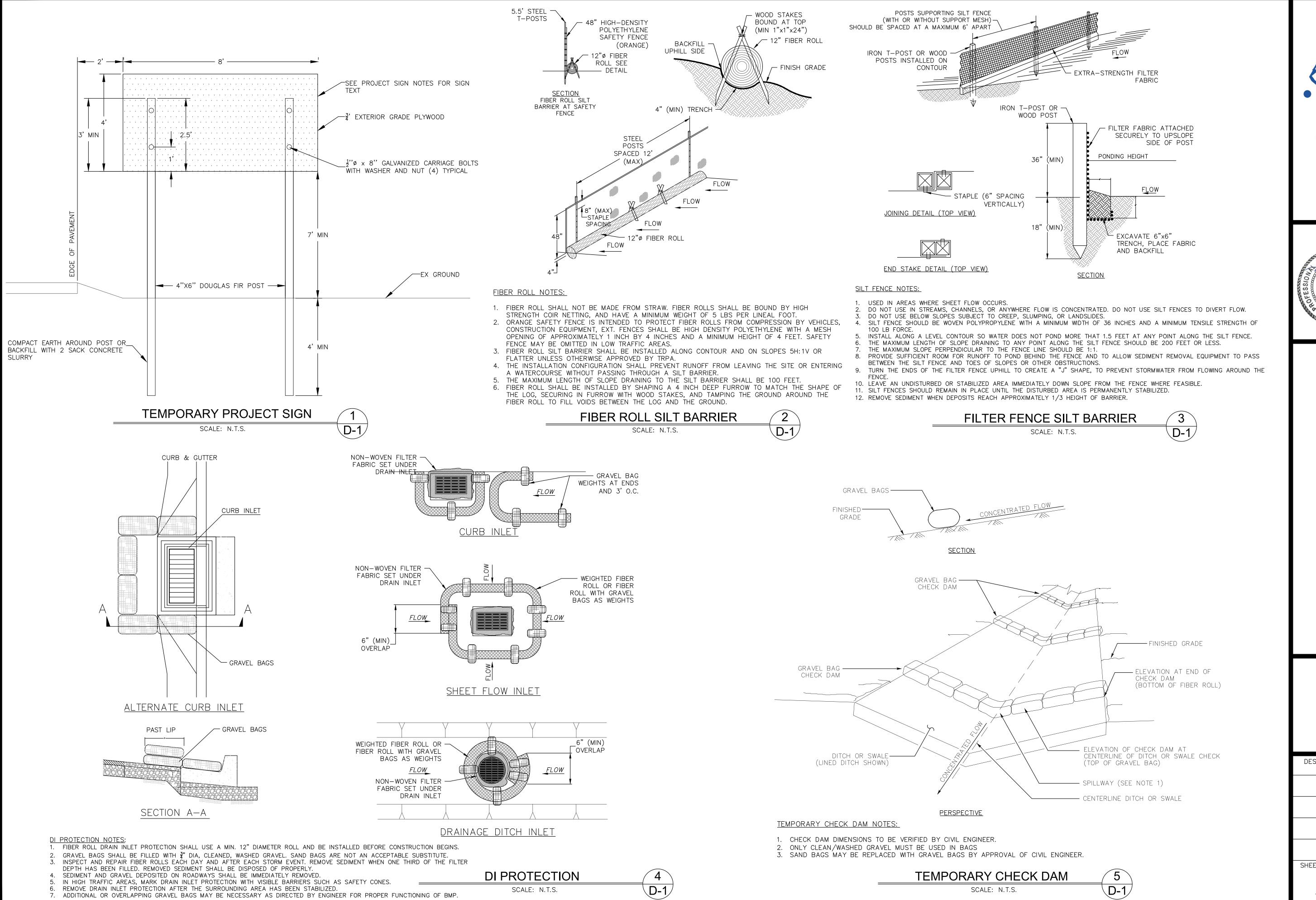
5. ALL STATION CALL OUTS ARE FOR DOUGLAS BLVD DITCH ALIGNMENT

IMMEDIATELY/

DOUGLAS BLVD DITCH (STA 3+00 AND HIGHER) IS UNKNOWN AND IS THEREFORE NOT SHOWN IN CROSS SECTIONS. CONTRACTOR TO TAKE CARE DURING EXCAVATION AND INFORM ENGINEER OF ANY CONFLICT







Nevada Tahoe Conservation District

MEGHAN C.

KELLY

CIVIL

CIVIL

Vo. 2085

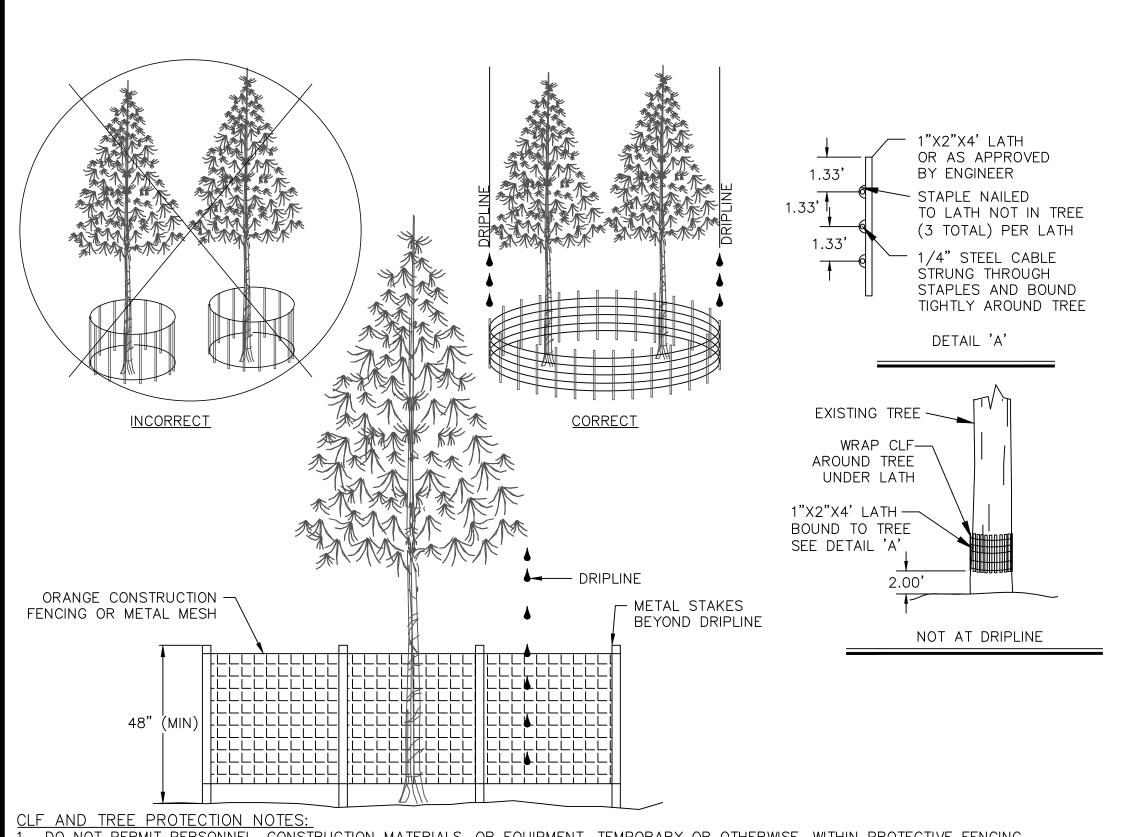
DETAILS
TIMAN TERRACE WATER QUALITY
IMPROVEMENT PROJECT

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SHEET

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DO NOT PERMIT PERSONNEL, CONSTRUCTION MATERIALS, OR EQUIPMENT, TEMPORARY OR OTHERWISE, WITHIN PROTECTIVE FENCING.

VEGETATION PROTECTION IS REQUIRED FOR ALL PROJECTS AS A CONDITION OF PROJECT APPROVAL.

METAL OR WIRE MESH FENCING MAY BE REQUIRED.

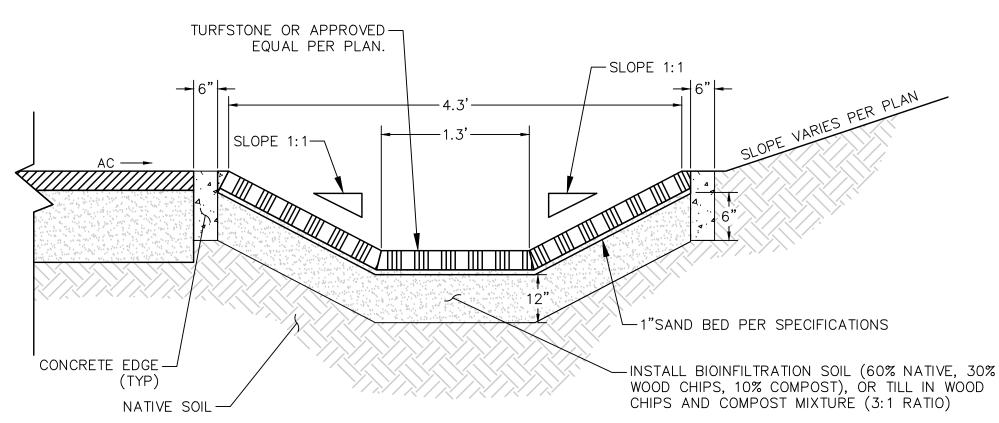
CALCULATE THE PROTECTIVE PERIMETER FOR SHIELDING LARGER SPECIMEN TREES MEASURING OVER 30" DBH AS FOLLOWS: COMPUTE THE PROTECTIVE RADIUS BY ADDING ONE FOOT, AS MEASURED OUT FROM THE TREE BOLE, FOR EVERY INCH IN DBH. (E.G. A TREE WITH A 30" DBH WOULD RECEIVE A 30' PROTECTIVE PERIMETER)

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

THE DETAIL SHOWN IS FOR TREE PROTECTION. MATERIAL AND SPACING SHOWN ALSO APPLIES TO CLF.

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 D-2 SCALE: N.T.S.

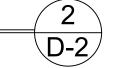


BLOCK CHANNEL NOTES:

1. SEE REVEGETATION PLAN AND SPECIAL PROVISIONS FOR REVEGETATION DETAILS

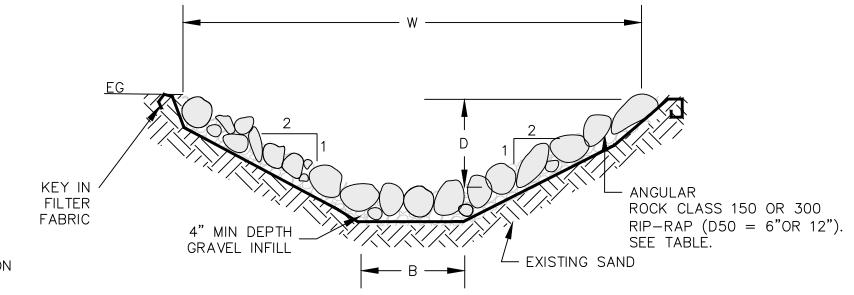
- 2. SAWCUT PAVEMENT ON FRIEDHOFF DRIVE TO CREATE SMOOTH TRANSITION BETWEEN ROAD AND CHANNEL. SEE STREET
- CUT REPAIR DETAIL 1/D-4.
- 3. CONCRETE EDGE TO BE INSTALLED ON UPSTREAM AND DOWNSTREAM EDGE OF BLOCK CHANNEL AS WELL AS ALONG THE SIDES OF THE CHANNEL AS SHOWN..

BLOCK CHANNEL SCALE: N.T.S.



		ROC	K LINED CHANNEL	TABLE		
ALIGNMENT	BGN STATION	END STATION				
NAME	[FT]	[FT]	W [FT]	B [FT]	D[FT]	RIP RAP
FRIEDHOFF DR.	1+67.4	2+19.5	3.5	0.5	0.75	CLASS 150
DOUGLAS BLVD.	2+67.9	3+85.2	7.0	1	1.5	CLASS 300
DOUGLAS BLVD.	3+85.2	3+90.6		TRANSITION		CLASS 300
DOUGLAS BLVD.	3+90.6	4+20.3	17.0	5.0	2.0	CLASS 300

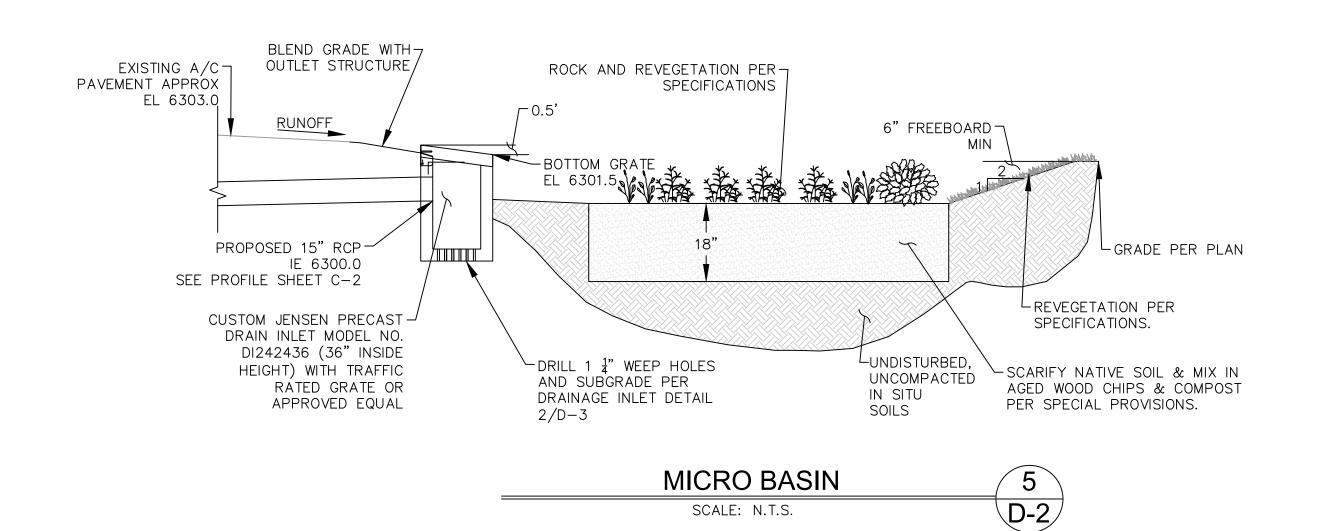
- 1. SEE REVEGETATION PLAN AND SPECIAL PROVISIONS FOR REVEGETATION DETAILS
- 2. SAWCUT PAVEMENT ON FRIEDHOFF DRIVE TO CREATE SMOOTH TRANSITION BETWEEN ROAD AND CHANNEL. SEE STREET CUT REPAIR DETAIL 1/D-4.



ROCK LINED CHANNEL SCALE: N.T.S.

	ROCK DROP STRUCTURE	TABLE		
CREST STATION CREST ELEVA			OVERALL DROP	
[FT] [FT]	[FT]	DROP [FT]	[FT]	
3+79.0 6298.0	8.0	2.0	1.5	
3+69.0 6296.3	8.0	2.5	2.0	WEIR CREST, SEE SHEET C−2 FOR ¬
3+55.6 6293.5	8.0	2.0	1.5	STATION AND ELEVATION \
3+43.4 6291.5	8.0	2.0	1.5	
3+33.7 6289.7	10.0	2.0	1.5	
3+20.7 6287.8	10.0	2.0	1.5	PLACE CLASS 150 — RIP RAP ANGULAR ROCK, SEE SPECIAL PROVISIONS PROVISIONS ROCK SEE SPECIAL ROCK SEE SPECIAL
STA 2+67.9 THRU 2+47.0: CULVER	RT			RIP RAP ANGULAR \ PLACE CLASS 150
2+17.0 6275.6	8.0	2.0	1.5	ROCK, SEE SPECIAL \ RIPRAP ANGULAR PROVISIONS \ ROCK, SEE SPECIAL
1+99.1 6272.7	10.0	2.0	1.5	PROVISIONS.
1+76.6 6269.4	8.0	2.0	1.5	
1+58.7 6266.5	10.0	2.0	1.5	
1+42.0 6264.4	10.0	2.0	1.5	FG FG
1+20.6 6262.1	. 8.0	2.0	1.5	THE TEN EARRIC SEE SPECIAL
0+94.7 6258.1	. 10.0	2.0	1.5	FILTER FABRIC SEE SPECIAL — PROVISIONS
0+70.7 6254.6	10.0	2.0	1.5	2' DROP
			TOP OF BO	A.5' MIN GAP BETWEEN BOULDERS = 6" MAX TOP OF 24" BOULDERS AT GRADE BOTTOM OF POOL ELEV -2' (OR -2.5') PLAN SECTION B-B SECTION VIEW PLACE 18-24" ROCK (TYP) SECTION A-A PROFILE VIEW TOP OF BANK (TYP) KEY IN FILTER FABRIC. SEE SPECIAL PROVISIONS SECTION B-B SECTION VIEW



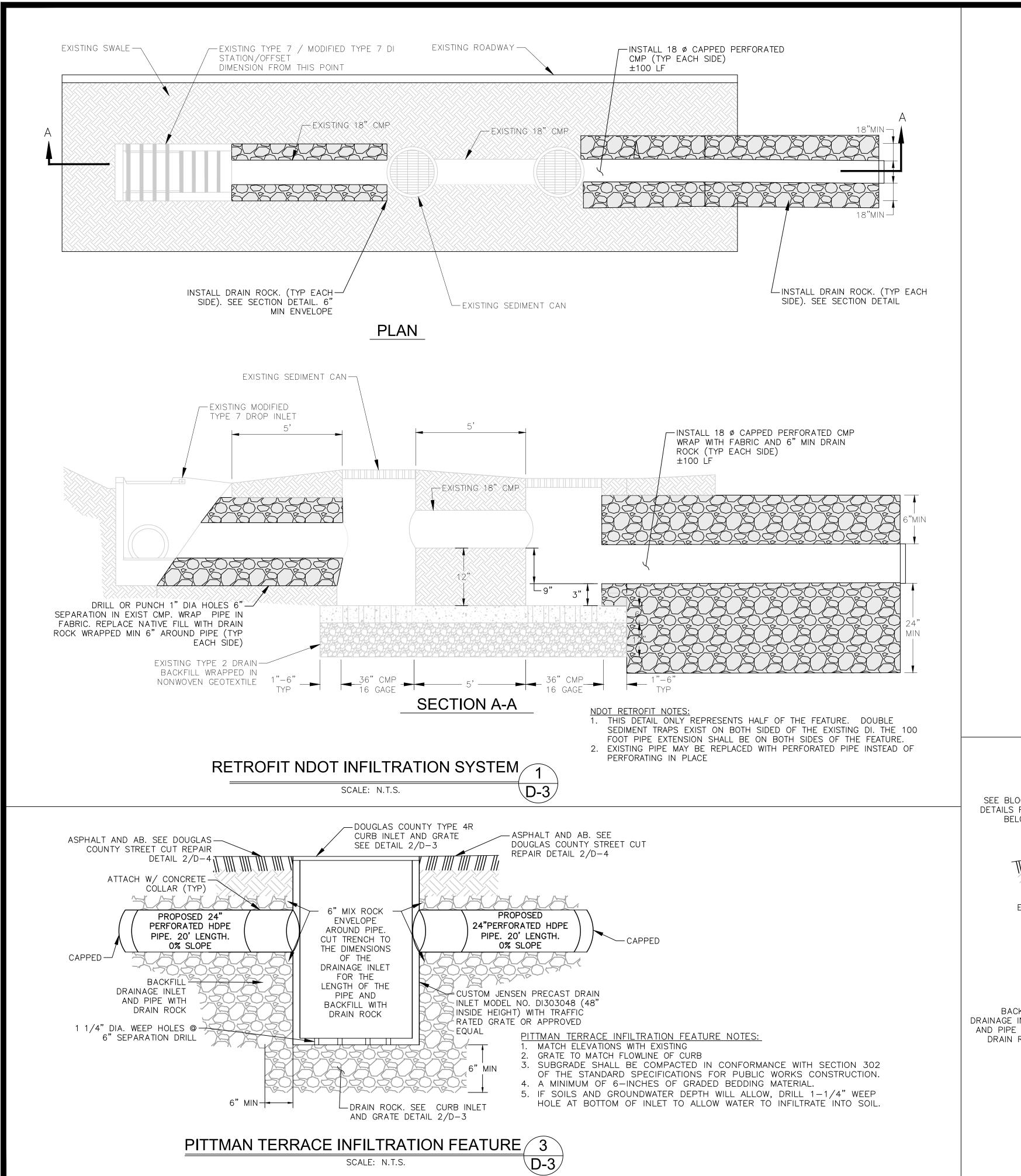


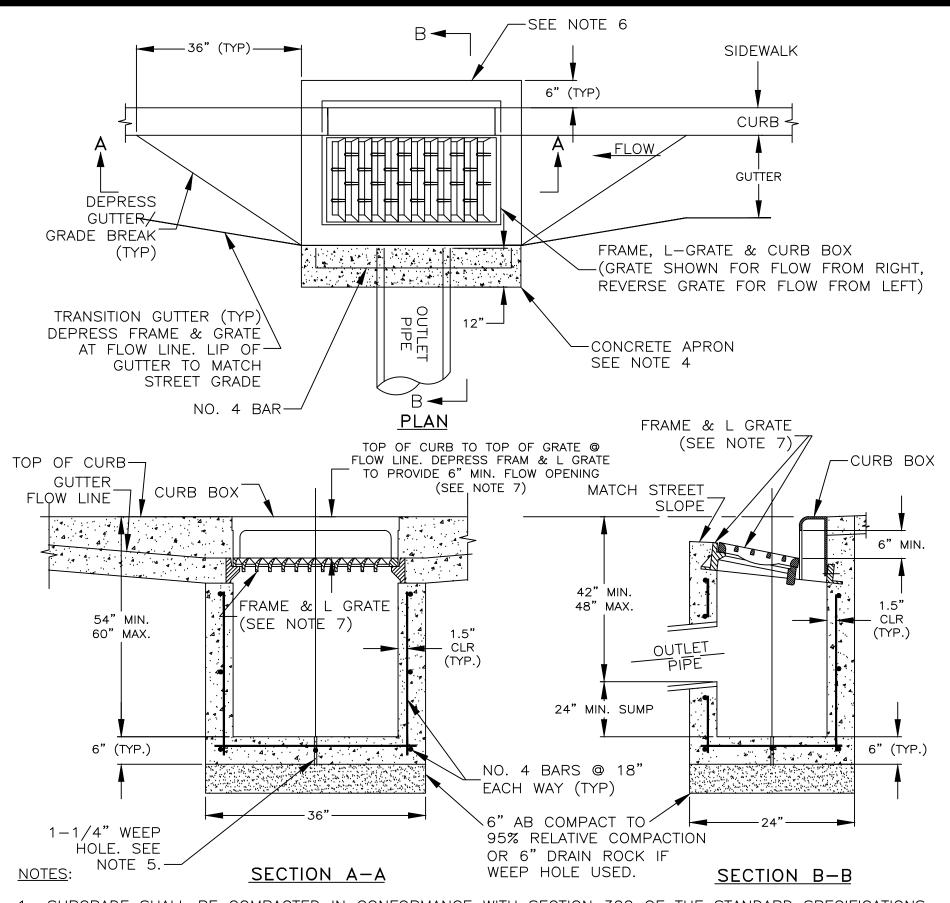


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DESIGNED/DRAWN MBG/CFW CHECKED MCK DATE 04/2018 SCALE AS SHOWN PROJECT PΤ

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1. SUBGRADE SHALL BE COMPACTED IN CONFORMANCE WITH SECTION 302 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

2. A MINIMUM OF 6-INCHES OF GRADED BEDDING MATERIAL AS DESCRIBED IN "TYPICAL STORM DRAIN TRENCH" DETAIL DO1 SHALL BE CONSTRUCTED.

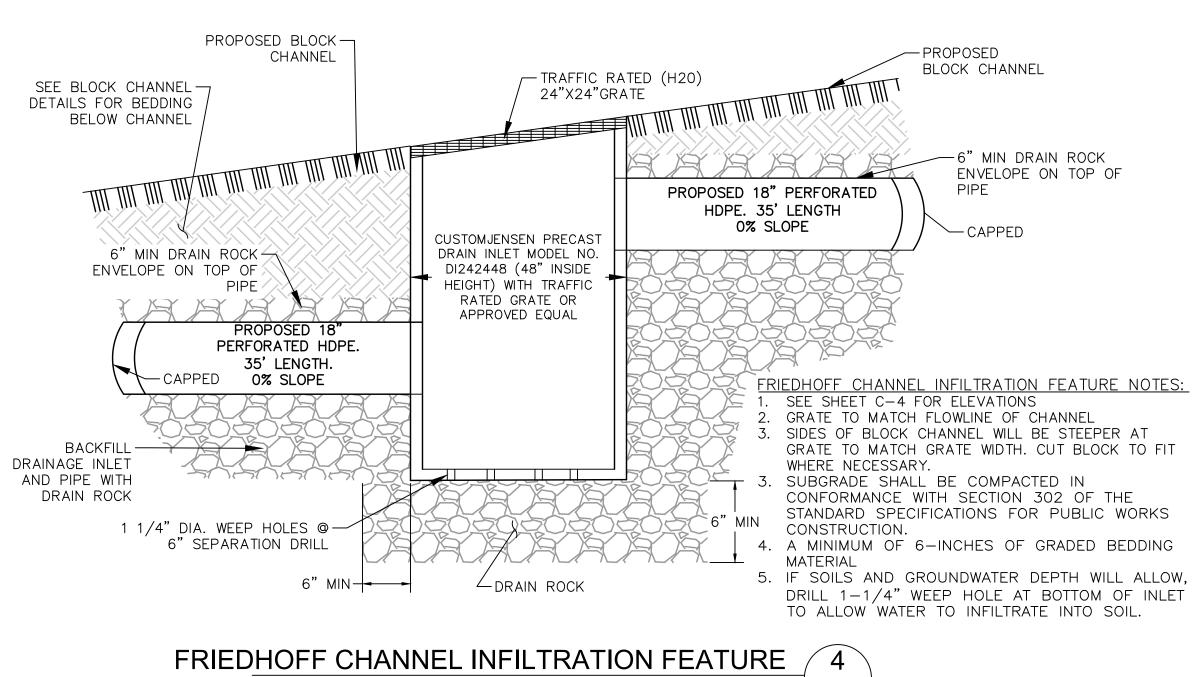
3. CONCRETE BOX SHALL BE DESIGNED FOR H-20 TRAFFIC LOAD.

4. IF FRAME AND GRATE EXTEND BEYOND LIP OF GUTTER, PROVIDE 8—INCH THICK CONCRETE APRON.
5. IF SOILS AND GROUNDWATER DEPTH WILL ALLOW, DRILL 1—1/4" WEEP HOLE AT BOTTOM OF INLET TO

ALLOW WATER TO INFILTRATE INTO SOIL.
6. IF NO SIDEWALK IS PRESENT, POUR 6—INCH CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM

7. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6—INCH MINIMUM FLOW OPENING AND INSTALL DURABLE SHIMS BETWEEN THE CURB BOX AND FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B—B).





SCALE: N.T.S.

Nevada Tahoe Conservation Distric



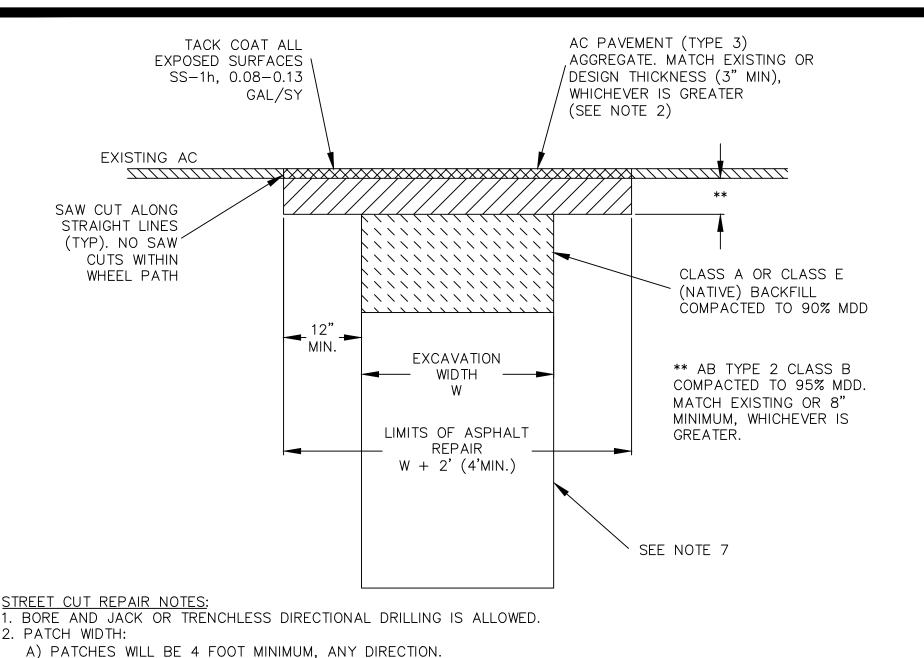
DETAILS
PITTMAN TERRACE WATER QUALITY
IMPROVEMENT PROJECT

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MBG/CFW
CHECKED
MCK
DATE
04/2018
SCALE
AS SHOWN

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STREET CUT REPAIR NOTES:

B) IF EDGE OF PATCHING IS WITHIN 3 FEET OF EDGE OF PAVEMENT OR LIP OF GUTTER, REMOVE AND REPLACE AC PAVEMENT FROM PATCH TO THAT EDGE.

C) FOR PATCHING IN PAVEMENT SURFACE THAT IS LESS THAN FIVE (5) YEARS OLD OR PCI>80, ENTIRE TRAVEL LANE WIDTH FOR FULL LENGTH OF PAVEMENT PATCH SHALL RECEIVE 1.5" MILL AND OVERLAY. D) PLACE SLURRY SEAL OR CHIP SEAL ON STREETS WITH EXISTING SLURRY SEAL OR CHIP SEAL

SURFACE. SURFACE TOLERANCES FOR AC PAVEMENT REPAIR SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD

SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK). ASPHALT CONCRETE CONSTRUCTION MATERIALS AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS

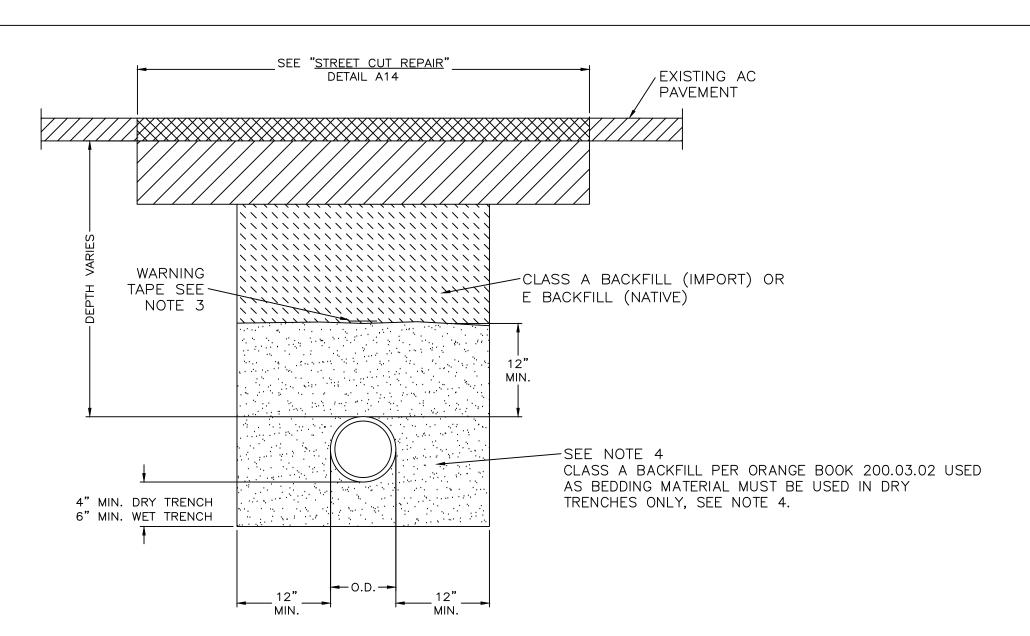
FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).

. TYPE 2 CLASS B AGGREGATE BASE SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK).

ASPHALT CEMENT SHALL BE PG 64-28 NV UNLESS OTHERWISE APPROVED BY DOUGLAS COUNTY ENGINEERING. WHEN PG 64-28 NV ASPHALT CEMENT IS NOT USED, NEW ASPHALT CONCRETE SURFACE SHALL BE FOG SEALED.

. FOR NON-COUNTY UTILITIES, PIPE ZONE BEDDING PER UTILITY PURVEYOR REQUIREMENTS. BACKFILL PER COUNTY REQUIREMENTS.





THE FOLLOWING GRADED BEDDING MATERIAL MAY BE USED IN WET TRENCHES:

10-40%

5-25%

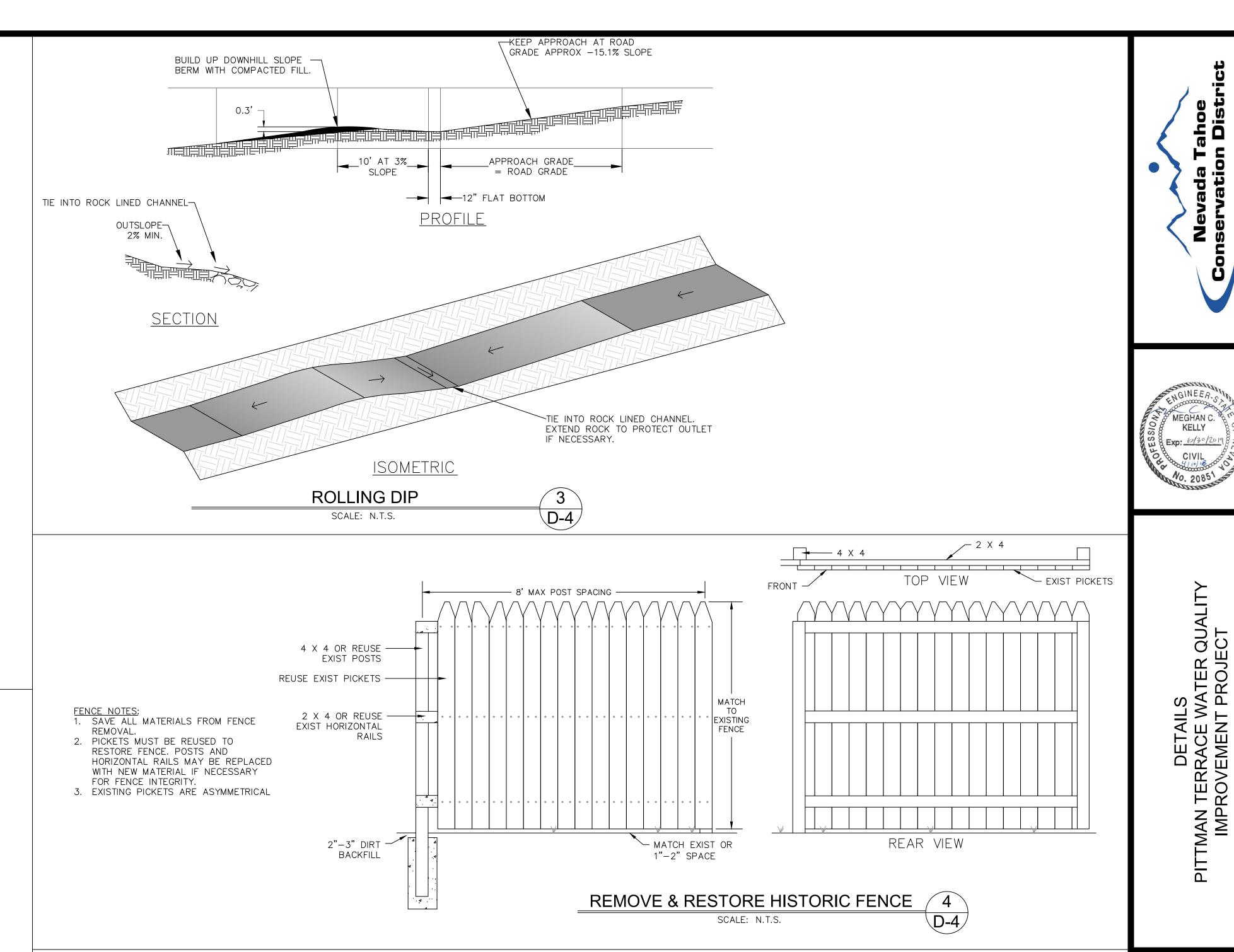
0-10%

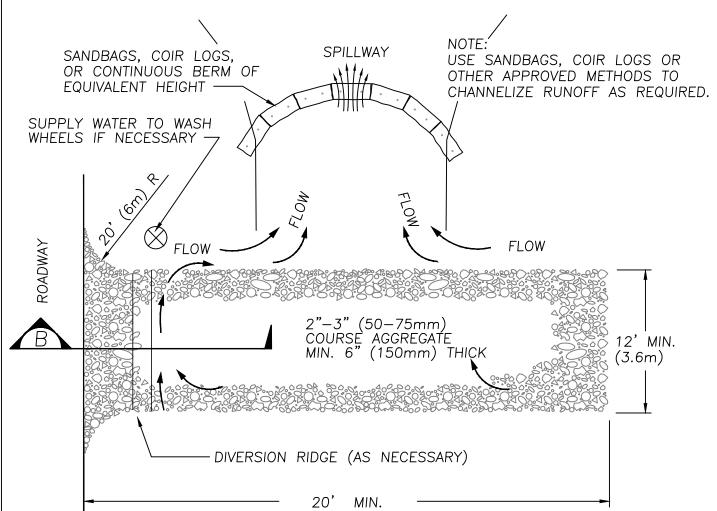
U.S. STANDARD PERCENT BY WEIGHT PASSING SIEVE SIZE 100% 50-90% 30-70%

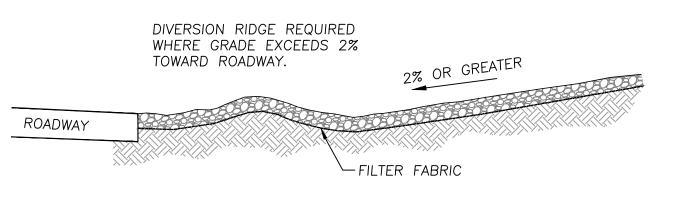
STORM DRAIN TRENCH NOTES:

- ALL REQUIREMENTS OF THE STORM DRAIN UTILITY ORDINANCE MUST BE MET. CLASS A AND CLASS E BACKFILL AND BEDDING MATERIAL SHALL CONFORM TO SECTION 200 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. BEDDING AND BACKFILL SHALL BE MECHANICALLY COMPACTED IN CONFORMANCE WITH SECTION 305.10 OF THE STANDARD SPECIFICATIONS
- FOR PUBLIC WORKS CONSTRUCTION. 3. PLACE WARNING TAPE 1-FOOT ABOVE STORM DRAIN PIPE. WARNING TAPE SHALL READ "CAUTION STORM DRAIN MAIN".
- 4. CLASS A BACKFILL AS BEDDING MATERIAL PER ORANGE BOOK 200.03.02. COMPACT OR CONSOLIDATE TO PROVIDE PROPER SUPPORT OF PIPE. 5. UTILIZE WATER STOP FOR WET TRENCHES.

DOUGLAS COUNTY STORM DRAIN TRENCH 2 SCALE: N.T.S.







ROCKED ENTRANCE SECTION B

ROCKED ENTRANCE NOTES 1. 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 SEDIMENT. 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC

RIGHT-OF-WAY. 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

> GRAVEL CONSTRUCTION ENTRANCE D-4 SCALE: N.T.S.

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CHECKED
MCK
DATE
04/2018
SCALE
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