

CONSTRUCTION DRAWINGS

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

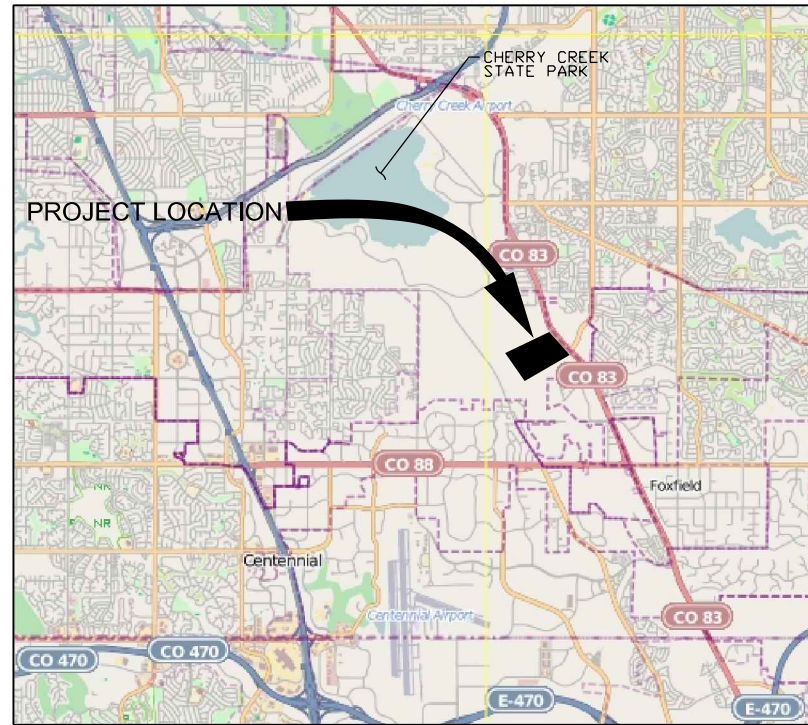
CHERRY CREEK STREAM RECLAMATION

AT 12-MILE PARK

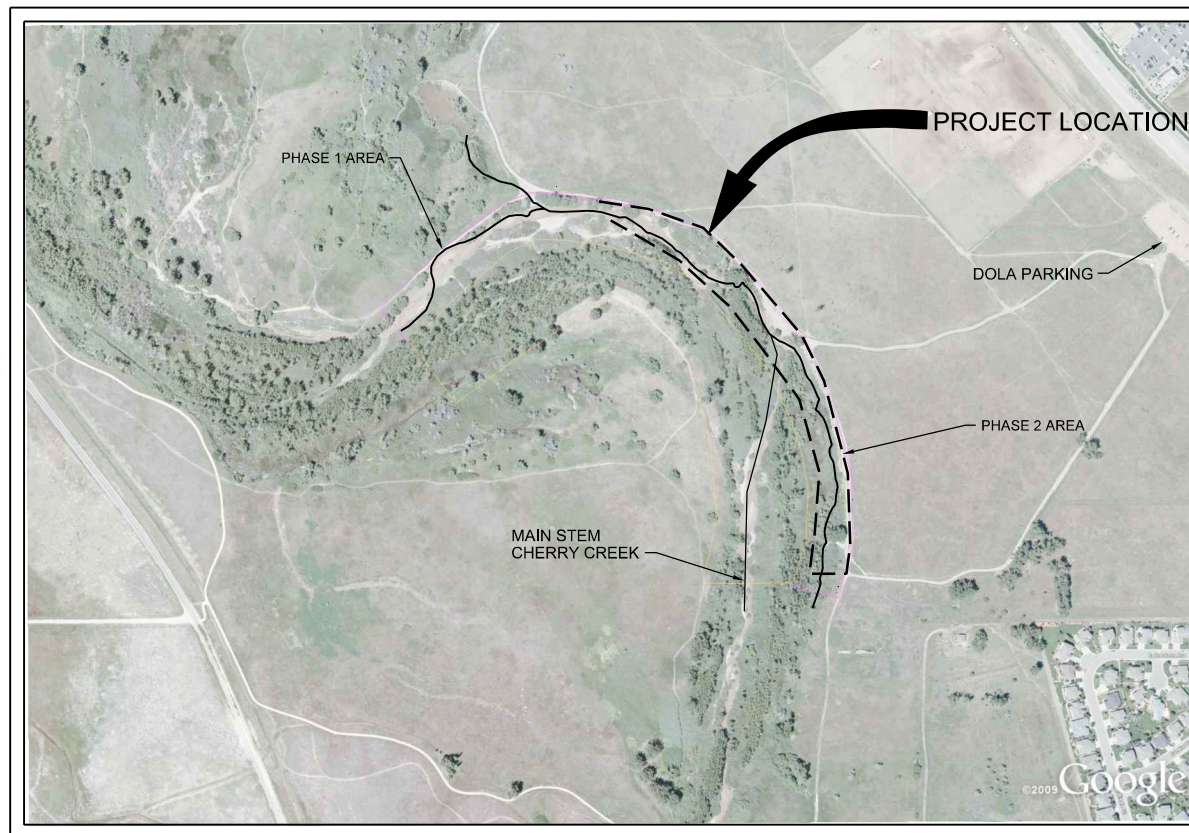
PHASE 2



OCTOBER 2012



VICINITY MAP: ARAPAHOE COUNTY, CO
NTS
SOURCE: EXPERT GPS



LOCATION MAP: ARAPAHOE COUNTY, CO
NTS
SOURCE: GOOGLE EARTH

INDEX OF DRAWING

SHEET NO	DWG NO	SHEET TITLE
1	G-1	COVER
2	G-2	GENERAL NOTES
3	G-3	SURVEY CONTROL AND SITE PLAN
4	G-4	HORIZONTAL AND VERTICAL CONTROL TABLES
5	G-5	HORIZONTAL AND VERTICAL CONTROL TABLES
6	C-1	GRADING PLAN 1
7	C-2	GRADING PLAN 2
8	C-3	GRADING PLAN 3
9	C-4	GRADING PLAN 4
10	C-5	GRADING PLAN 5
11	C-6	GRADING PLAN 6
12	C-7	CROSS SECTIONS
13	C-8	CROSS SECTIONS
14	C-9	DETAILS
15	C-10	DETAILS
16	C-11	DETAILS
17	C-12	DETAILS
18	C-13	STANDARD DETAILS
19	C-14	STANDARD DETAILS.
20	L-1	LANDSCAPE PLAN 1
21	L-2	LANDSCAPE PLAN 2
22	L-3	LANDSCAPE PLAN 3
23	L-4	LANDSCAPE PLAN 4
24	L-5	LANDSCAPE PLAN 5
25	L-6	LANDSCAPE PLAN 6

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

BILL RUZZO, TECHNICAL MANAGER DATE

CH2M HILL

SCOTT YANAGIHARA, PROJECT MANAGER DATE

CHERRY CREEK BASIN WATER QUALITY AUTHORITY CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY	CH2MHILL	COVER	NO. DATE NO. DATE DSGN	DR A COOK	REVISION CHK S MILLER	APVD BY S YANAGIHARA	N APVD
	<small>REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2004. ALL RIGHTS RESERVED.</small>						
VERIFY SCALE <small>BAR IS ONE INCH ON ORIGINAL DRAWING.</small>							
DATE		OCTOBER 2012		PROJ		240050	
DWG		G-1		SHEET		1	

GENERAL NOTES

- IT IS THE INTENT OF THESE PLANS TO SHOW ALL EXISTING UTILITIES, HOWEVER IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811, PRIOR TO DIGGING. THE ENGINEER AND CCBWQA SHALL BE NOTIFIED OF ANY POTENTIAL CONFLICTS.
- EXISTING FACILITIES AND UTILITIES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED IN PLACE OR REMOVED AND REPLACED IN KIND, AS APPROVED BY THE ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY CCBWQA, CCSP AND/OR ITS AUTHORIZED REPRESENTATIVES. CCBWQA AND CCSP RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY CCBWQA 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (ACCEPTED BY CCBWQA), AND ONE (1) COPY OF ALL REQUIRED PERMITS AT THE JOB SITE AT ALL TIMES.
- THE FINAL FILL AND EXCAVATION SLOPES, LINES AND GRADES SHOWN ON THE DRAWINGS ARE THE NEAT LINES FOR PAY PURPOSES AND ARE THE STEEPEST SLOPES PERMITTED UNLESS APPROVED BY THE ENGINEER. FLATTER SLOPES MAY BE NECESSARY, AS DETERMINED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES AND FOR SATISFYING ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. TEMPORARY EXCAVATIONS SHALL PROVIDE AT MINIMUM, THE TRENCH DIMENSIONS AND CLEARANCES SHOWN OR SPECIFIED. TEMPORARY CONSTRUCTION SLOPES SHALL BE SLOPED, SHORED, SHEETED, AND/OR BRACED IN ACCORDANCE WITH STABILITY REQUIREMENTS AND APPLICABLE REGULATIONS, AND SHALL BE NO STEEPER THAN THE MINIMUM SLOPES SHOWN OR SPECIFIED WITHOUT THE APPROVAL OF THE ENGINEER. ANY SUCH APPROVALS BY THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM SOLE RESPONSIBILITY FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCEPTANCE AND CONTROL OF DRAINAGE WATER FROM AREAS ADJACENT TO THE CREEK AND FOR STREAM FLOW WITHIN THE CREEK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING METHODS BY WHICH CHANNEL FLOW, SURFACE RUNOFF, AND SUBSURFACE SEEPAGE WILL BE TEMPORARILY DIVERTED, OR OTHERWISE CONTROLLED. WATER CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, AS WELL AS ALL APPLICABLE PERMIT CONDITIONS. TEMPORARY WATER CONTROL SYSTEMS SHALL NOT CAUSE INCREASED FLOODING OR AFFECT NORMAL FLOW CHARACTERISTICS DURING CONSTRUCTION. ANY DAMAGE TO THE WORK RESULTING FROM BASE FLOWS OR FLOOD FLOWS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE COST.
- THE CONTRACTOR IS ADVISED THAT THE STOCKPILING AND USE OF MATERIAL AND/OR EQUIPMENT WITHIN THE CHANNEL CREATES POTENTIAL OBSTRUCTIONS TO THE FLOW OF THE STREAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT THE WORK IN A MANNER THAT MINIMIZES THE REDUCTION IN CHANNEL CAPACITY AT ALL TIMES. THE CONTRACTOR IS ADVISED THAT THE STORAGE OF FUELS, CHEMICALS, TRASH, DEBRIS, CONSTRUCTION MATERIAL, VEHICLES, AND EQUIPMENT SHALL BE PROHIBITED WITHIN THE CHANNEL AT ALL TIMES EXCEPT AS IS ESSENTIAL TO THE PROGRESS OF THE WORK. UNDER NO CIRCUMSTANCE SHALL ANY OF THE ABOVE MENTIONED MATERIALS BE STORED OVERNIGHT OR DURING OFF WORK HOURS WITHIN THE CHANNEL.
- CONTRACTOR SHALL PROVIDE PEDESTRIAN AND VEHICULAR SIGNAGE THAT CLEARLY IDENTIFIES THE CONSTRUCTION ZONE THROUGHOUT PROJECT. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY.
- CONTRACTOR SHALL PROTECT ALL EXISTING CURB, GUTTER AND PAVEMENT AT ALL ACCESS POINTS FROM DAMAGE BY EQUIPMENT OR CONSTRUCTION OPERATIONS. ALL CURB, GUTTER AND PAVEMENT DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- SOIL RIPRAP SHALL CONSIST OF 65% RIPRAP AND 35% SOIL, AND SHALL BE COMPACTED.
- NATIVE FILL SHALL BE COMPACTED TO 95% STD PROCTOR.
- CONSTRUCTION STAKING AND SURVEY SHALL BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THIS PROJECT, EXCEPT FOR THE 404 PERMIT AND THE GESG PERMIT.
- CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN ARAPAHOE COUNTY, AS REQUIRED.
- NEW FILL SHOULD BE CONTINUOUSLY BENCHED INTO EXISTING SLOPES EXCEEDING 4 HORIZONTAL TO 1 VERTICAL. A BENCH HEIGHT BETWEEN 1 AND 2 FEET SHOULD BE USED. PROPER COMPACTION IS FREQUENTLY DIFFICULT TO ACHIEVE AT THE EDGES OF FILL SLOPES. FOR THIS REASON OVERBUILD FILL SLOPES 1 TO 2 FEET AND CUT THE SLOPE SURFACE BACK TO THE GRADES SHOWN. FILLS SHOULD BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES LOOSE AND SHOULD BE COMPACTED TO THE MOISTURE AND DENSITY REQUIREMENTS PER THE SPECIFICATIONS.
- VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT THE ENGINEER IS GUARANTOR OF CONTRACTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, NOR THE SAFETY AT THE JOB SITE.
- SITE ACCESS AND STAGING SHALL BE PER THE CONSTRUCTION DOCUMENTS, UNLESS ALTERNATIVE ACCESS AND STAGING ARE APPROVED BY CCBWQA AND/OR ITS AUTHORIZED REPRESENTATIVES.
- CONTRACTOR SHALL INSTALL TWO PROJECT SIGNS PER THE PROJECT SPECIFICATIONS. SIGNS WILL BE FURNISHED BY THE CCBWQA.
- SEE PROJECT SPECIFICATIONS FOR REQUIRED SUBMITTALS AND MEASUREMENT AND PAYMENT REQUIREMENTS.

CULTURAL AND HISTORICAL FINDINGS

- IF ANY SUSPECTED CULTURAL OR HISTORIC FINDINGS ARE UNCOVERED DURING CONSTRUCTION, STOP CONSTRUCTION IMMEDIATELY AND NOTIFY: MARY POWELL/ERO RESOURCES AT 303-830-1188 THE ENGINEER AND THE CCBWQA.

CONSTRUCTION SEQUENCING

- CONTRACTOR SHALL CONSTRUCT BIO-SWALE AND CRUSHER FINES TRAIL PRIOR TO CONSTRUCTION OF BANK STABILIZATION.
- CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION FENCING DURING CONSTRUCTION.
- UPON APPROVAL OF OWNER AND ENGINEER OF BIO-SWALE AND CRUSHER FINES TRAIL, BEGIN BANK STABILIZATION.

SEEDING AND PLANTING NOTES

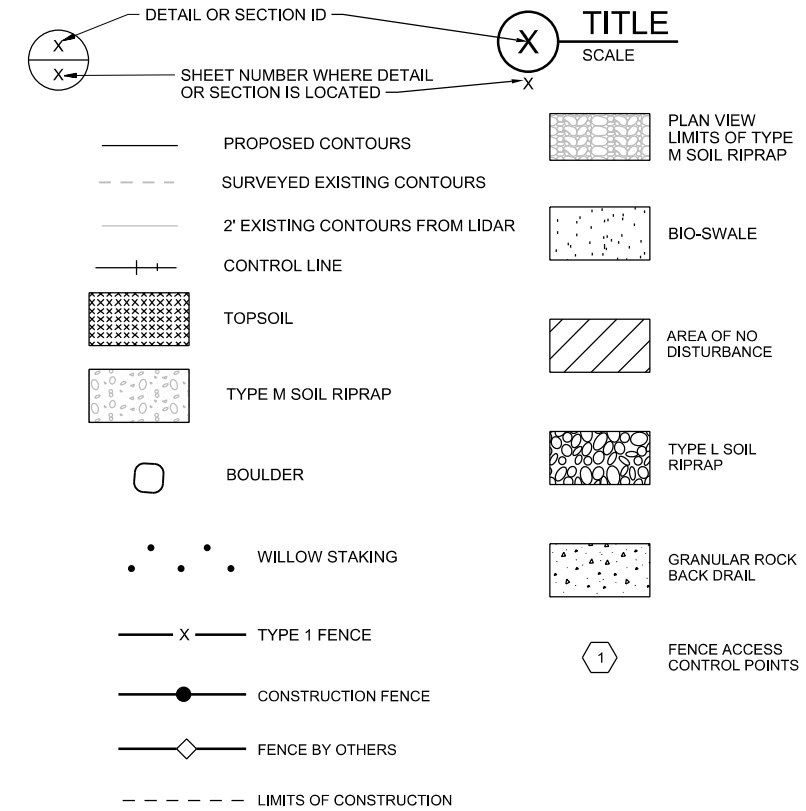
- ADJUST SITE GRADING AS APPROPRIATE SO THAT IMPACTS TO WOODY VEGETATION AND TREES TO BE PROTECTED CAN BE AVOIDED.
- AVOID CLEARING AND GRUBBING WOODY VEGETATION IN AREAS OF TEMPORARY IMPACTS. IF NECESSARY, PRUNE WOODY VEGETATION TO GROUND LEVEL SO THAT IT MAY GROW BACK FOLLOWING CONSTRUCTION.
- AVOID THE UNNECESSARY REMOVAL OF TREES OR SHRUBS; FOR EXAMPLE, PRUNE THE AERIAL PORTIONS OF TREES AND SHRUBS THAT HANG OVER A PROJECT AREA AND INTERFERE WITH EQUIPMENT.
- ALL DISTURBED AREAS SHALL BE SEEDED WITH EITHER THE UPLAND OR WETLAND SEED MIX LISTED BELOW. NO SUBSTITUTIONS SHALL BE ALLOWED, INCLUDING ADDITION OF A COVER CROP, WITHOUT WRITTEN PERMISSION OF CCBWQA REPRESENTATIVE. OVERLAP THE SEED MIXES A MINIMUM OF 1 FEET. THE CONTRACTOR SHALL LIMIT DISTURBANCE TO THE CONSTRUCTION LIMITS SHOWN ON THE PLAN. SEED TAGS MUST BE SUBMITTED TO THE ENGINEER WITH COPIES TO THE CCBWQA.
- CONTRACTOR SHALL THOROUGHLY SATURATE SOILS BEFORE SEEDING OPERATIONS PER THE SPECIFICATIONS.
- NATIVE SEED MAY BE DRILLED OR BROADCAST. SEED WHICH IS BROADCAST SHALL BE HAND RAKED IMMEDIATELY FOLLOWING SEEDING TO COVER WITH 1/8" TO 1/2" OF TOPSOIL. SEEDING RATES SHOWN SHALL BE DOUBLED IF BROADCAST.
- LIVE SANDBAR WILLOW STAKES - WILLOWS SHALL BE CUT FROM EXISTING SANDBAR WILLOWS WITHIN THE PROJECT AREA AS LOCATED BY CCSP PERSONNEL. THE EXISTING WILLOWS WILL BE CUT 8 TO 10 INCHES FROM THE GROUND WITH LOPPERS OR HANDSAWS. THE CUTS WILL BE AT A 45-DEGREE ANGLE. WILLOW STAKES WILL BE APPROXIMATELY 3 TO 4 FEET LONG AND BETWEEN 1/2 INCH AND 1 INCH IN DIAMETER. ALL SIDE BRANCHES AND THE TERMINAL BUD SHALL BE TRIMMED OFF FOR WILLOW STAKES. SIDE BRANCHES SHALL BE LEFT ON FOR WILLOW FASCINES. IMMEDIATELY AFTER CUTTING, ALL LIVE STAKES WILL BE PLACED IN WATER SO THAT THE CUT ENDS ARE COVERED WITH WATER, AND THE CUTTINGS SHALL BE STORED IN A COOL LOCATION, TO STORE CUT WILLOWS STAKES GREATER THAN 3 DAYS, CUT STAKES WILL BE WRAPPED IN WET BURLAP AND STORED IN A COOL PLACE. BURLAP WILL REMAIN DAMP AT ALL TIMES DURING STORAGE. WILLOW STAKES SHALL BE PLANTED USING A PIECE OF REBAR TO CREATE A VERTICAL HOLE APPROXIMATELY 1 TO 2 FEET DEEP. APPROXIMATELY 2/3 OF THE STAKE SHALL BE INSERTED INTO THE HOLE SO THAT THE STAKE IS IN CONTACT WITH THE WATER TABLE. AFTER THE WILLOW CUTTING IS INSERTED, THE HOLE SHALL BE BACKFILLED WITH NATIVE SOILS AND LIGHTLY TAMPED TO PREVENT AIR POCKETS. THE STAKE SHALL THEN BE WATERED TO HELP FILL IN THE AIR POCKETS. IT IS IMPORTANT TO PLANT WILLOW STAKES DEEP ENOUGH SO THAT THE BOTTOM OF THE CUTTING REACHES SATURATED SOIL THROUGHOUT THE GROWING SEASON.
 - HARVEST AND PLANT WILLOW LIVE STAKES DURING DORMANT SEASON. WILLOWS SHALL BE PLANTED ON OR BEFORE APRIL 1ST.
 - USE HEALTHY, STRAIGHT, AND LIVE WOOD AT 2 TO 3 YEARS OLD.
 - MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION.
 - SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.
 - STORE CUT WILLOWS WITH LOWER ENDS IN WAER FOR NO LONGER THAN 7 DAYS BEFORE PLANTING.
 - BUNDLE WILLOW STAKES, APPROXIMATELY 3 TO 4 FEET LONG, IN 8 TO 10 INCH DIAMETER BUNDLES TO CREATE WILLOW FASCINES. TIE WILLOW FASCINES WITH TWINE EVERY 24 INCHES. PLACE WILLOW FASCINES SO THE BOTTOM OF THE BUNDLE IS SATURATED THROUGH THE GROWING SEASON.
- TOPSOIL SHALL CONSIST OF ON-SITE MATERIAL. APPLY SOIL AMENDMENT TO TOPSOIL PER THE SPECIFICATIONS.

WETLAND SEED MIX			
COMMON NAME, VARIETY	SCIENTIFIC NAME	LBS/ACRE	% OF TOTAL
WOOLLY SEDGE	CAREX LANUGINOSA	0.25	0.41
ALKALI SACATION	SPOROBOLUS AIROIDES	3.00	4.98
PRAIRIE CORDGRASS	SPARTINA PECTINATA	6.00	9.96
GREEN NEEDLEGRASS	NASSELLA VIRIDULA	15.00	24.90
SWITCHGRASS	PANICUM VIRGATUM	15.00	24.90
WESTERN WHEATGRASS	PASCOPIRUM SMITHII	10.00	16.60
HIGH PLAINS WET MEADOW MIX	WESTERN NATIVE SEED CO	10.00	16.60
LOUISIANA SAGE	ARTEMISIA LUDOVICIANA	0.25	0.41
NUTTALL'S SUNFLOWER	NELIANTUS NUTTALLII	0.25	0.41
BLUE VERVAIN	VERBANA HASTATA	0.25	0.41
YARROW	ACHILLEA LANULOSA	0.25	0.41
TOTAL		60.25	100.00

UPLAND SEED MIX			
COMMON NAME, VARIETY	SCIENTIFIC NAME	LBS/ACRE	% OF TOTAL
WESTERN WHEATGRASS, ARRIBA	PASCOPIRUM SMITHII	13.47	44.03
BLUE GRAMA, LOVINGTON	BOUTELOUA GRACILIS	1.92	6.29
SIDEOTS GRAMA, HACHITA	BOUTELOUA CURTIPENDULA	2.89	9.43
SWITCHGRASS, TRAILBLAZER	PANICUM VIRGATUM	0.96	3.14
YELLOW INDIANGRASS, HOLT	SORGHASTRUM NUTANS	2.31	7.55
JUNEGRASS	KOELERIA MACRANTHERA		
	ELYMUS TRACHYCAULUS	0.19	0.63
SLENDER WHEATGRASS	SUBSP, TRACHYCAULUS	3.85	12.58
BIG BLUESTEM, KAW	ANDROPOGON GERARDII	2.70	8.81
CANADA WILDRYE	ELYMUS CANADENSIS	2.31	7.55
TOTAL		30.60	100.00

LEGEND

TYPICAL SECTIONS AND DETAIL CALLOUTS FOLLOW THE GENERAL FORMAT SHOWN BELOW. DETAILS ARE IDENTIFIED WITH NUMBERS AND CROSS SECTION CUTS ARE IDENTIFIED BY LETTERS. SEE GESG SHEETS FOR ASSOCIATED SYMBOLOLOGY.



ABBREVIATIONS

B & B	BAG AND BURLAP	H	HORIZONTAL
CCBWQA	CHERRY CREEK BASIN WATER QUALITY AUTHORITY	INV	INVERT
CCSP	CHERRY CREEK STATE PARK	LBS	POUNDS
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	MAX	MAXIMUM
		MIN	MINIMUM
		N	NORTHING
CMP	CORRUGATED METAL PIPE	NAVD	NORTH AMERICAN CONTROL POINT
CP	CONTROL POINT		
CLR	CLEAR	NGVD	NATIONAL GEODETIC VERTICAL DATUM
DIA	DIAMETER		
DOLA	DOG OFF LEASH AREA	NTS	NOT TO SCALE
DWG	DRAWING	OC	ON CENTER
E	EASTING	PJF	PREMOLDED JOINT FILLER
EA	EACH	REINF	REINFORCING
EC	EROSION CONTROL	S	SLOPE
EF	EACH FACE	SST	STAINLESS STEEL
ELEV	ELEVATION	STA	STATION
EW	EACH WAY	STD	STANDARD
EWEF	EACH WAY EACH FACE	TYP	TYPICAL
EXST	EXISTING	UDFCD	URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
FES	FLARED END SECTION		
FT	FOOT	V	VERTICAL
GESG	GRADING, EROSION, AND SEDIMENT CONTROL	VPI	VERTICAL POINT OF INTERSECTION

LANDSCAPE ABBREVIATIONS

POS-G	5 GALLON PLAINS COTTONWOOD, 1" CALIPER
POS-1	BAG BURLAP PLAINS COTTONWOOD, 1" CALIPER
POS-2	BAG BURLAP PLAINS COTTONWOOD, 2" CALIPER
CHNA	RABBITBRUSH (5 GALLON)
PRAM	WILD PLUM (5 GALLON)
PRVI	CHOKECHERRY (5 GALLON)
RHTR	THREE LEAF SUMAC (5 GALLON)
RFAN	GOLDEN CURRANT (5 GALLON)

CH2MHILL

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY

GENERAL NOTES

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE OCTOBER 2012

PROJ 240050

DWG G-2

SHEET 2

SURVEY CONTROL POINTS

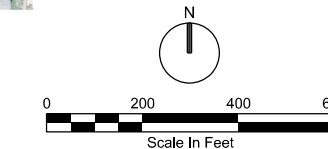
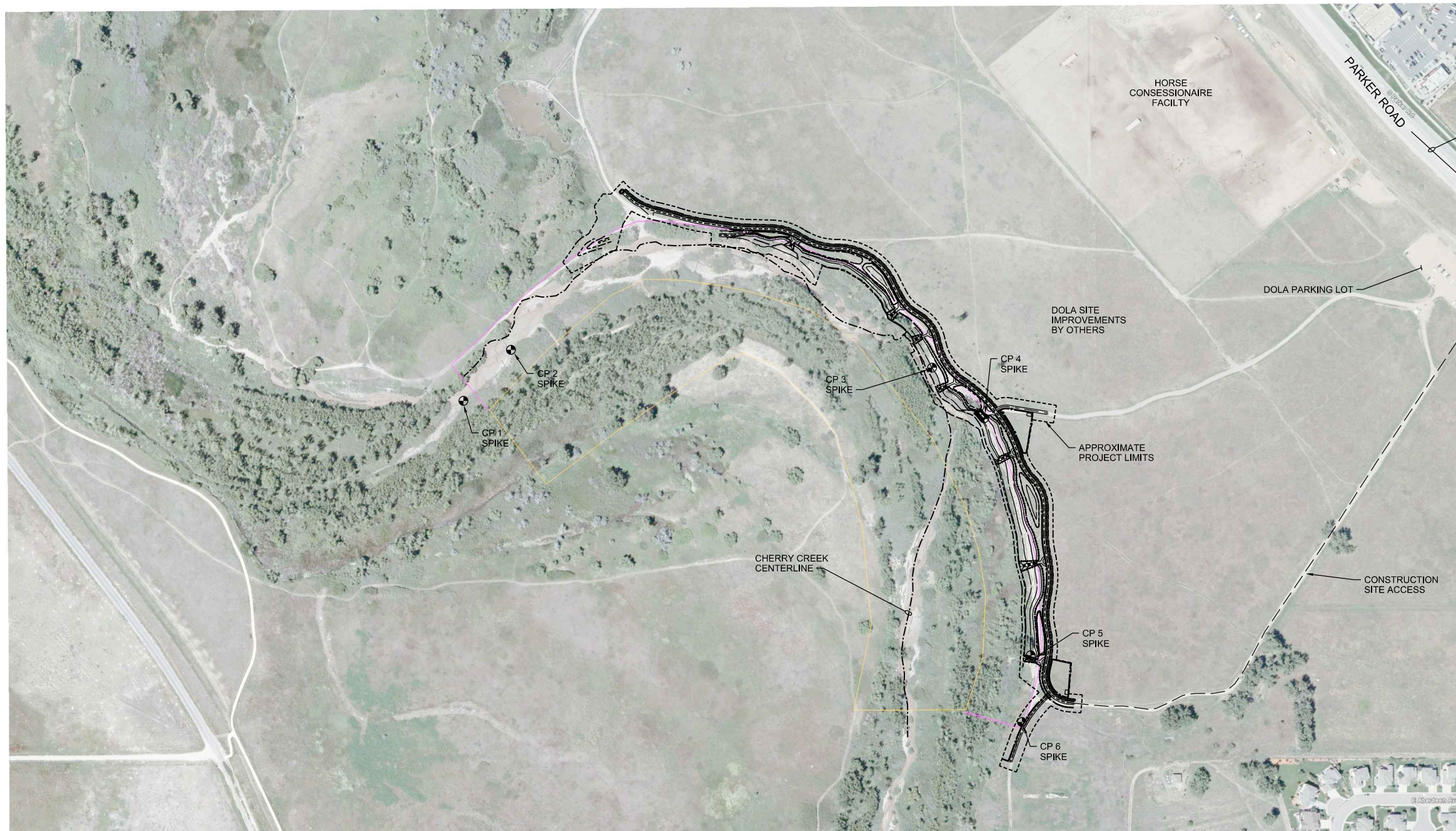
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	1649267.00	3190343.83	5597.07	SPIKE
CP 2	1649436.82	3190502.66	5597.77	SPIKE
CP 3	1649377.43	3191905.98	5610.48	SPIKE
CP 4	1649209.00	3192079.55	5612.93	SPIKE
CP 5	1648418.36	3192234.35	5617.6	SPIKE
CP 6	1648195.89	3192205.43	5616.45	SPIKE

SURVEY NOTES

- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 2007 (NSRS2007) ACQUIRED FROM VRS NETWORK
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 ACQUIRED FROM VRS NETWORK. CONVERSION FROM NAVD 88 TO NGVD 29: NAVD 88 ELEV -2.97 FT = NGVD 29 ELEV.
- PROJECTION: COLORADO COORDINATE SYSTEM OF 1983, CENTRAL ZONE
- GEOID - 2009
- COMBINED SCALE FACTOR (GRID TO GROUND) 1.000289002
- UNITS: US SURVEY FEET
- INITIAL SURVEY PERFORMED BY CRITIGEN, UPDATED BY CH2M HILL
- DATE OF SURVEY: JULY 1, 2010 UPDATED FOR BORROW AREA JUNE 2, 2011.
- ADDITIONAL DETAILED SURVEY CONDUCTED JUNE 2012.
- SEE DWGS G-4, G-5 FOR CONSTRUCTION CONTROL LINES.

SITE NOTES:

- SEE GESC PLANS FOR EROSION CONTROL MEASURES AND ACCESS REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN PARK ACCESS AND TRAIL ACCESS DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH STATE PARKS REQUIREMENTS FOR WORK HOURS AND SITE ACCESS.
- CONTRACTOR SHALL REMOVE ALL WEEDS AND DIRT FROM CONSTRUCTION EQUIPMENT PRIOR TO ACCESSING SITE TO PREVENT THE SPREAD OF WEEDS.
- CONSTRUCTION TRAFFIC SHALL UTILIZE IDENTIFIED ROUTE. IF ALTERNATE ROUTE IS REQUESTED IT MUST BE APPROVED BY CCSP PRIOR TO USE OF NEW ROUTE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIR TO PARK ROADS, PARKING LOT AND IMPROVED TRAILS USED DURING CONSTRUCTION.



CHERRY CREEK BASIN WATER QUALITY AUTHORITY CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY	NO. DATE D5GN	REVISION CHK	DESCRIPTION APVD	NO. DATE BY APVD
	A COOK	S MILLER	C HOOPER	S YANAGIHARA
CH2MHILL SURVEY CONTROL AND SITE PLAN				
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.				
DATE: OCTOBER 2012 PROJ: 240050 DWG: G-3 SHEET: 3				

TS6 HORIZONTAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PC, PI, PT, POE with various stationing and alignment data.

TS6 VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, ELEVATION, NORTHING, EASTING. Rows include POB, PVI, POE with stationing and elevation data.

H2 HORIZONTAL AND VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PVI, POE with stationing and alignment data.

H3 HORIZONTAL AND VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PVI, POE with stationing and alignment data.

H6 HORIZONTAL AND VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PVI, POE with stationing and alignment data.

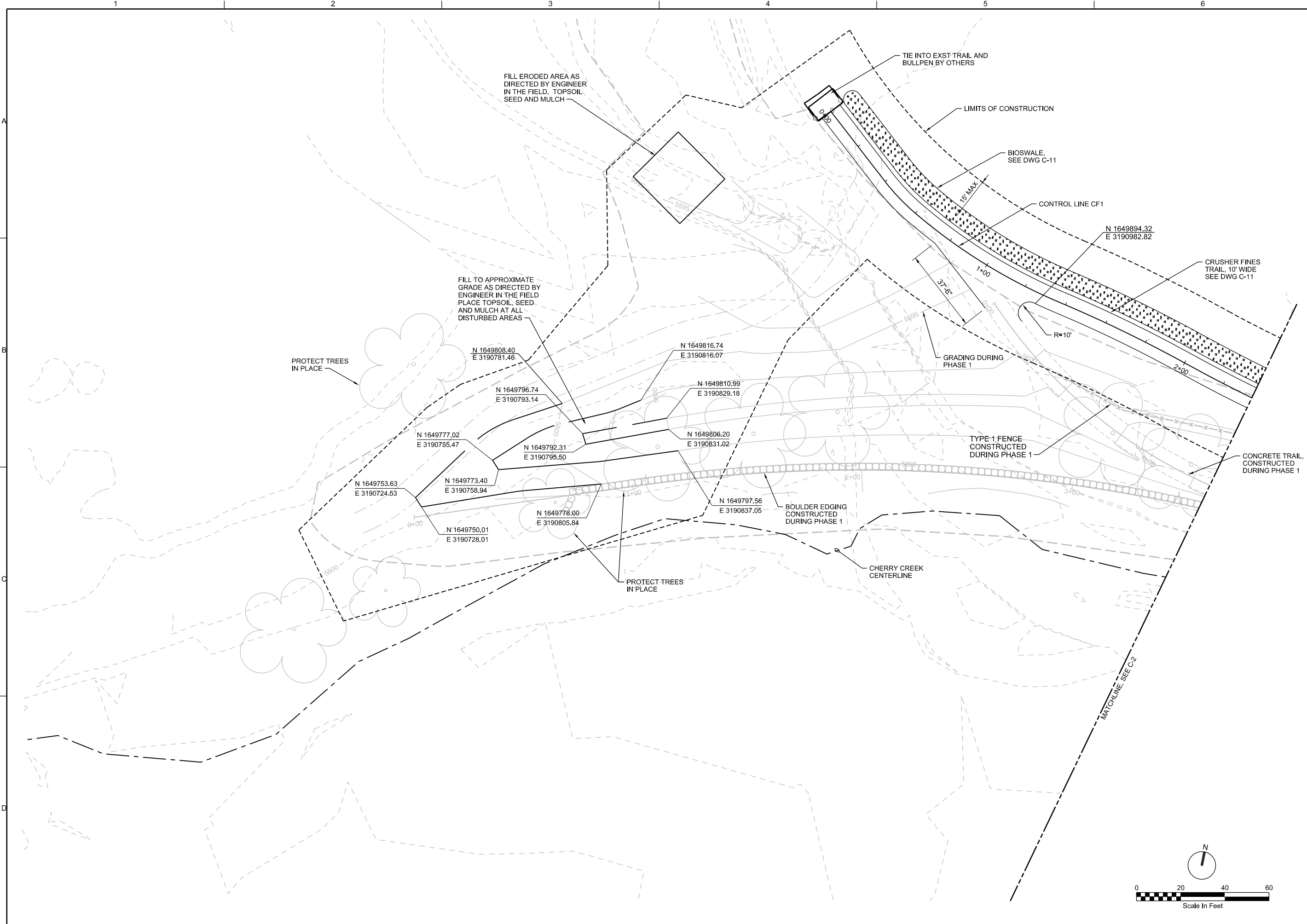
H1 HORIZONTAL AND VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PVI, POE with stationing and alignment data.

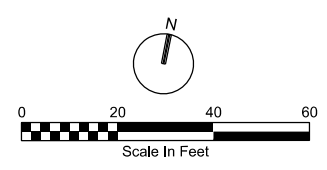
H4 HORIZONTAL AND VERTICAL CONTROL TABLE

Table with columns: TYPE, STATION, NORTHING, EASTING, RADIUS (FT), LENGTH (FT), TANGENT. Rows include POB, PVI, POE with stationing and alignment data.

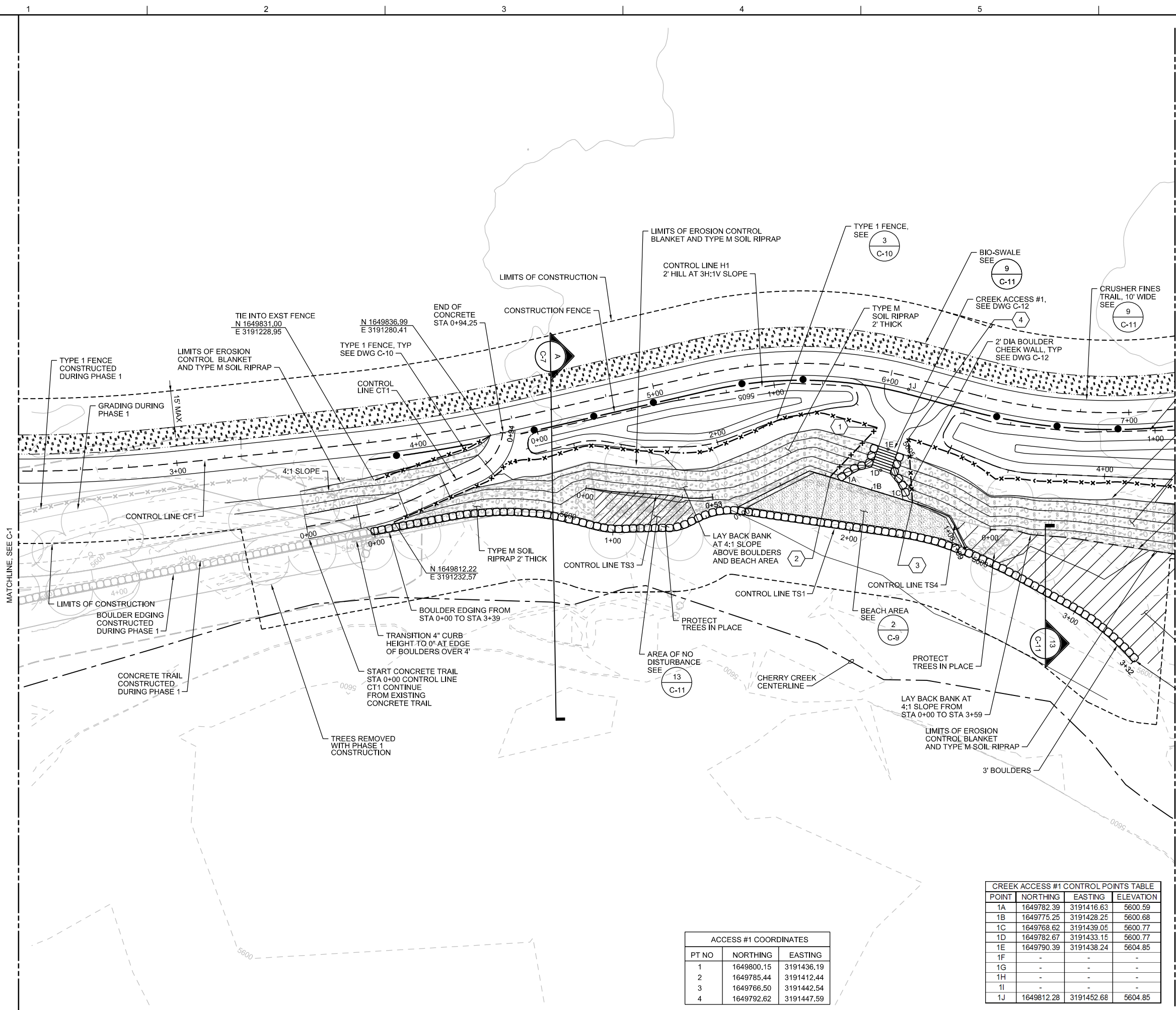
Project information and title block including: CHERRY CREEK BASIN WATER QUALITY AUTHORITY, CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK, CHERRY CREEK STATE PARK, ARAPAHOE COUNTY, HORIZONTAL AND VERTICAL CONTROL TABLES, VERIFY SCALE, DATE: OCTOBER 2012, PROJ: 240050, DWG: G-5, SHEET: 5.



CHERRY CREEK BASIN WATER QUALITY AUTHORITY		NO. DATE		DESCRIPTION REVISION		APVD BY	
		DGN	DATE	CHK	REVISION	APVD	BY
CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY		NO. DATE		DESCRIPTION REVISION		APVD BY	
		DGN	DATE	CHK	REVISION	APVD	BY
CH2MHILL		NO. DATE		DESCRIPTION REVISION		APVD BY	
		DGN	DATE	CHK	REVISION	APVD	BY
GRADING PLAN 1		NO. DATE		DESCRIPTION REVISION		APVD BY	
		DGN	DATE	CHK	REVISION	APVD	BY
VERIFY SCALE		NO. DATE		DESCRIPTION REVISION		APVD BY	
BAR IS ONE INCH ON ORIGINAL DRAWING.		DGN	DATE	CHK	REVISION	APVD	BY
DATE		NO. DATE		DESCRIPTION REVISION		APVD BY	
OCTOBER 2012		DGN	DATE	CHK	REVISION	APVD	BY
PROJ		NO. DATE		DESCRIPTION REVISION		APVD BY	
240050		DGN	DATE	CHK	REVISION	APVD	BY
DWG		NO. DATE		DESCRIPTION REVISION		APVD BY	
C-1		DGN	DATE	CHK	REVISION	APVD	BY
SHEET		NO. DATE		DESCRIPTION REVISION		APVD BY	
6		DGN	DATE	CHK	REVISION	APVD	BY



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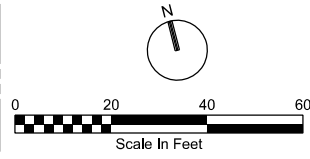


ACCESS #1 COORDINATES

PT NO	NORTHING	EASTING
1	1649800.15	3191436.19
2	1649785.44	3191412.44
3	1649766.50	3191442.54
4	1649792.62	3191447.59

CREEK ACCESS #1 CONTROL POINTS TABLE

POINT	NORTHING	EASTING	ELEVATION
1A	1649782.39	3191416.63	5600.59
1B	1649775.25	3191428.25	5600.68
1C	1649768.62	3191439.05	5600.77
1D	1649782.67	3191433.15	5600.77
1E	1649790.39	3191438.24	5604.85
1F	-	-	-
1G	-	-	-
1H	-	-	-
1I	-	-	-
1J	1649812.28	3191452.68	5604.85



CH2MHILL

GRADING PLAN 2

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

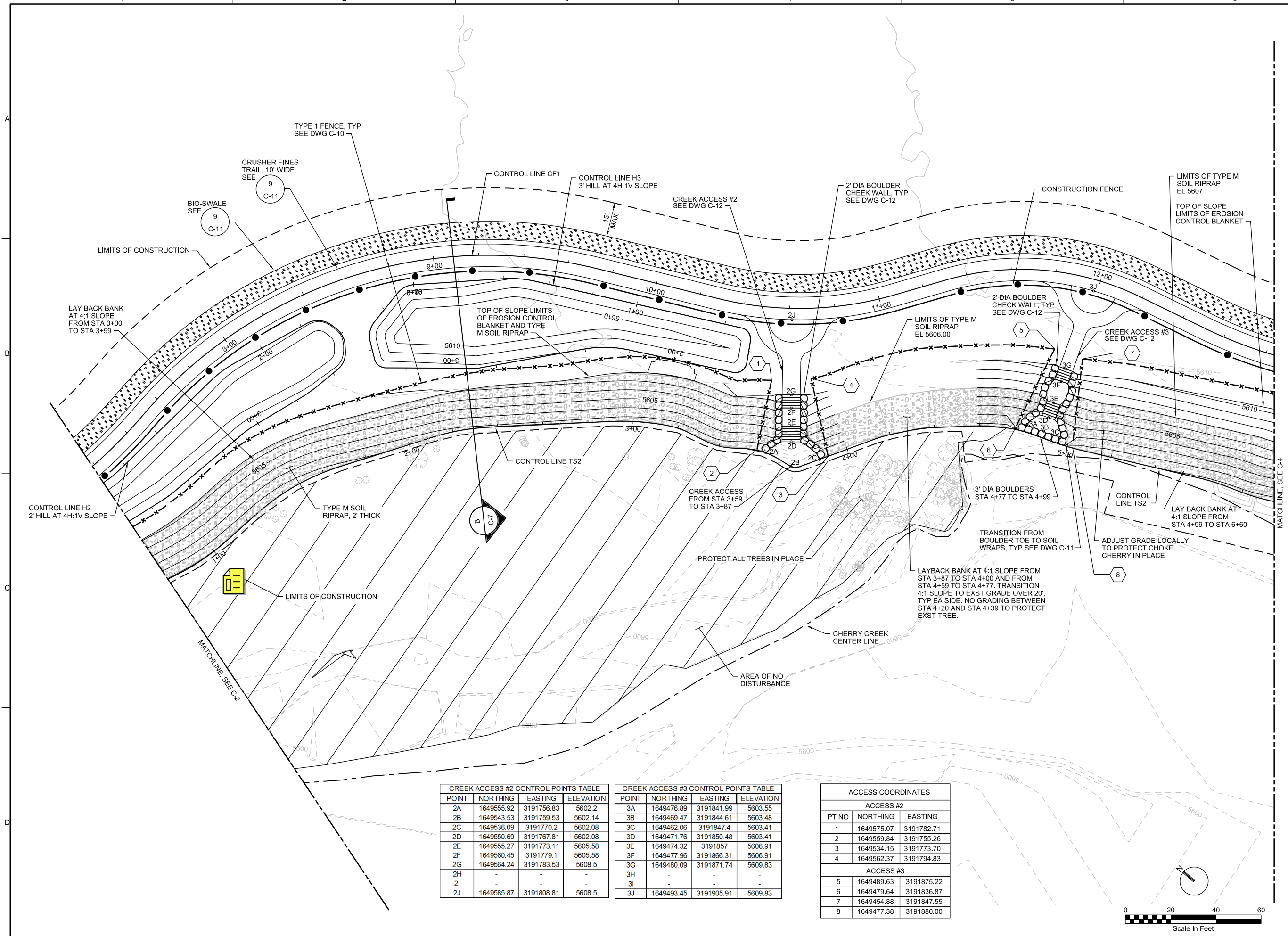
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S. MILLER
 C. HOOPER
 S. YAMAGIHARA

NO	DATE	DESCRIPTION	BY	APPROVED

VERIFY SCALE
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DATE: OCTOBER 2012
 PROJ: 240050
 DWG: C-2
 SHEET: 7



CREEK ACCESS #2 CONTROL POINTS TABLE

POINT	NORTHING	EASTING	ELEVATION
2A	1649555.92	3191756.83	5602.2
2B	1649543.53	3191759.53	5602.14
2C	1649536.09	3191770.2	5602.08
2D	1649550.69	3191767.81	5602.08
2E	1649555.27	3191773.11	5605.58
2F	1649560.45	3191779.1	5605.58
2G	1649564.24	3191783.53	5608.5
2H	-	-	-
2I	-	-	-
2J	1649585.87	3191808.81	5608.5

CREEK ACCESS #3 CONTROL POINTS TABLE

POINT	NORTHING	EASTING	ELEVATION
3A	1649476.89	3191841.99	5603.55
3B	1649469.47	3191844.61	5603.48
3C	1649462.06	3191847.4	5603.41
3D	1649471.76	3191850.48	5603.41
3E	1649474.32	3191857	5606.91
3F	1649477.96	3191866.31	5606.91
3G	1649480.09	3191871.74	5609.83
3H	-	-	-
3I	-	-	-
3J	1649493.45	3191905.91	5609.83

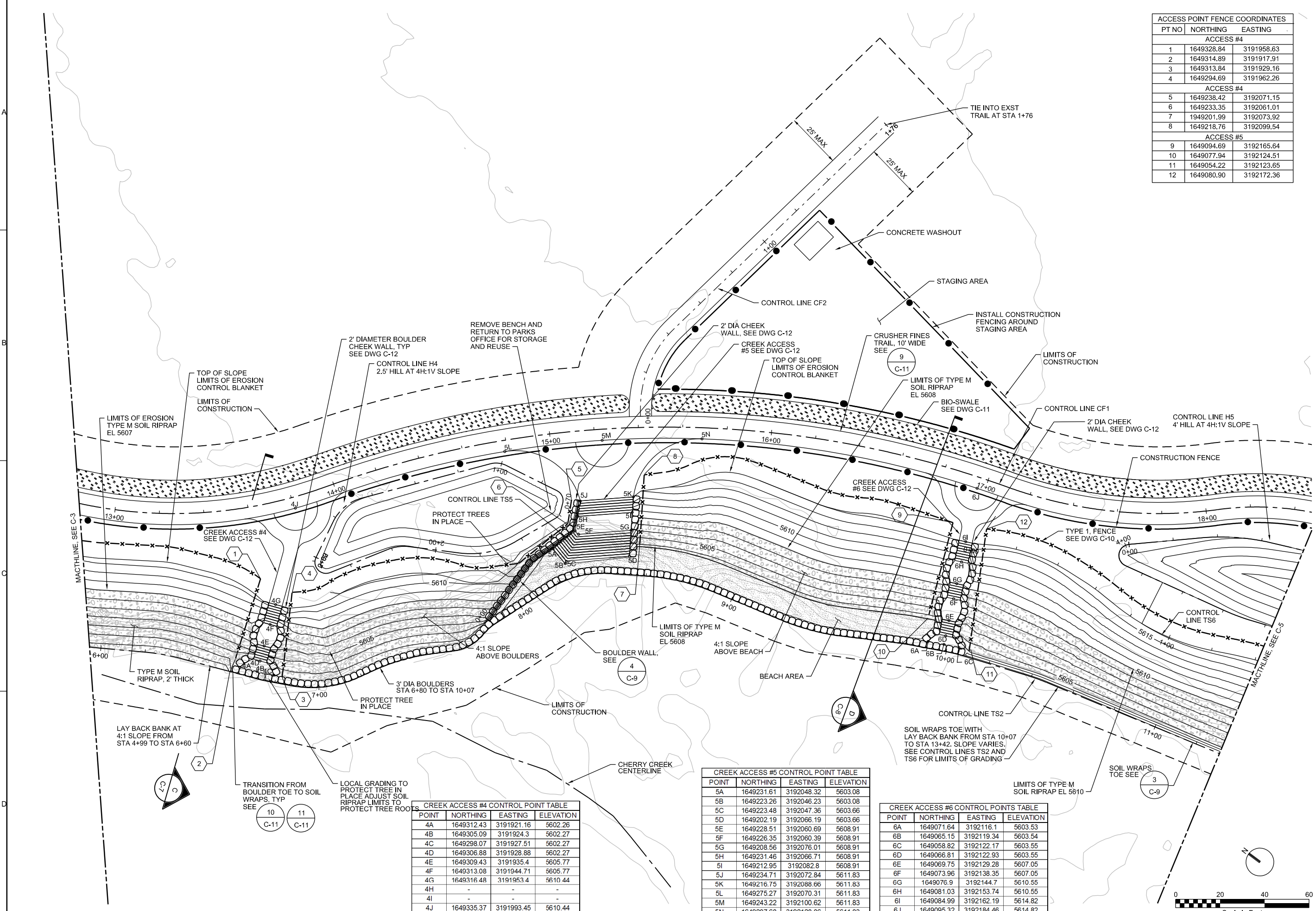
ACCESS COORDINATES

ACCESS #2		
PT NO	NORTHING	EASTING
1	1649575.07	3191782.71
2	1649559.84	3191755.26
3	1649534.15	3191773.70
4	1649562.37	3191794.83
ACCESS #3		
5	1649489.63	3191875.22
6	1649479.64	3191836.87
7	1649454.88	3191847.55
8	1649477.38	3191880.00



CH2MHILL	CHERRY CREEK BASIN WATER QUALITY AUTHORITY	CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY	GRADING PLAN 3
	CHERRY CREEK BASIN WATER QUALITY AUTHORITY	CHERRY CREEK BASIN WATER QUALITY AUTHORITY	CHERRY CREEK BASIN WATER QUALITY AUTHORITY
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: OCTOBER 2012 PROJ: 240050 DWG: C-3 SHEET: 8	
NO DATE NO. DATE DSGN		DESCRIPTION REVISION CHK APVD	
A COOK		S MILLER	
C HOOPER		S YAMAGIHARA	
APVD		APVD	
BY		BY	
N		N	

ACCESS POINT FENCE COORDINATES		
PT NO	NORTHING	EASTING
ACCESS #4		
1	1649328.84	3191958.63
2	1649314.89	3191917.91
3	1649313.84	3191929.16
4	1649294.69	3191962.26
ACCESS #4		
5	1649238.42	3192071.15
6	1649233.35	3192061.01
7	1949201.99	3192073.92
8	1649218.76	3192099.54
ACCESS #5		
9	1649094.69	3192165.64
10	1649077.94	3192124.51
11	1649054.22	3192123.65
12	1649080.90	3192172.36



POINT	NORTHING	EASTING	ELEVATION
4A	1649312.43	3191921.16	5602.26
4B	1649305.09	3191924.3	5602.27
4C	1649298.07	3191927.51	5602.27
4D	1649306.88	3191928.88	5602.27
4E	1649309.43	3191935.4	5605.77
4F	1649313.08	3191944.71	5605.77
4G	1649316.48	3191953.4	5610.44
4H	-	-	-
4I	-	-	-
4J	1649335.37	3191993.45	5610.44

POINT	NORTHING	EASTING	ELEVATION
5A	1649231.61	3192048.32	5603.08
5B	1649223.26	3192046.23	5603.08
5C	1649223.48	3192047.36	5603.66
5D	1649202.19	3192066.19	5603.66
5E	1649228.51	3192060.69	5608.91
5F	1649226.35	3192060.39	5608.91
5G	1649208.56	3192076.01	5608.91
5H	1649231.46	3192066.71	5608.91
5I	1649212.95	3192082.8	5608.91
5J	1649234.71	3192072.84	5611.83
5K	1649216.75	3192088.66	5611.83
5L	1649275.27	3192070.31	5611.83
5M	1649243.22	3192100.62	5611.83
5N	1649207.68	3192128.06	5611.83

POINT	NORTHING	EASTING	ELEVATION
6A	1649071.64	3192116.1	5603.53
6B	1649065.15	3192119.34	5603.54
6C	1649058.82	3192122.17	5603.55
6D	1649066.81	3192122.93	5603.55
6E	1649069.75	3192129.28	5607.05
6F	1649073.96	3192138.35	5607.05
6G	1649076.9	3192144.7	5610.55
6H	1649081.03	3192153.74	5610.55
6I	1649084.99	3192162.19	5614.82
6J	1649095.32	3192184.46	5614.82

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY

CH2MHILL

GRADING PLAN 4

NO DATE

DESCRIPTION REVISION

APVR N

NO. DATE

CHK

BY APVD

DGSN

A COOK

DR

S MILLER

C HOOPER

S YANAGIHARA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE

OCTOBER 2012

PROJ

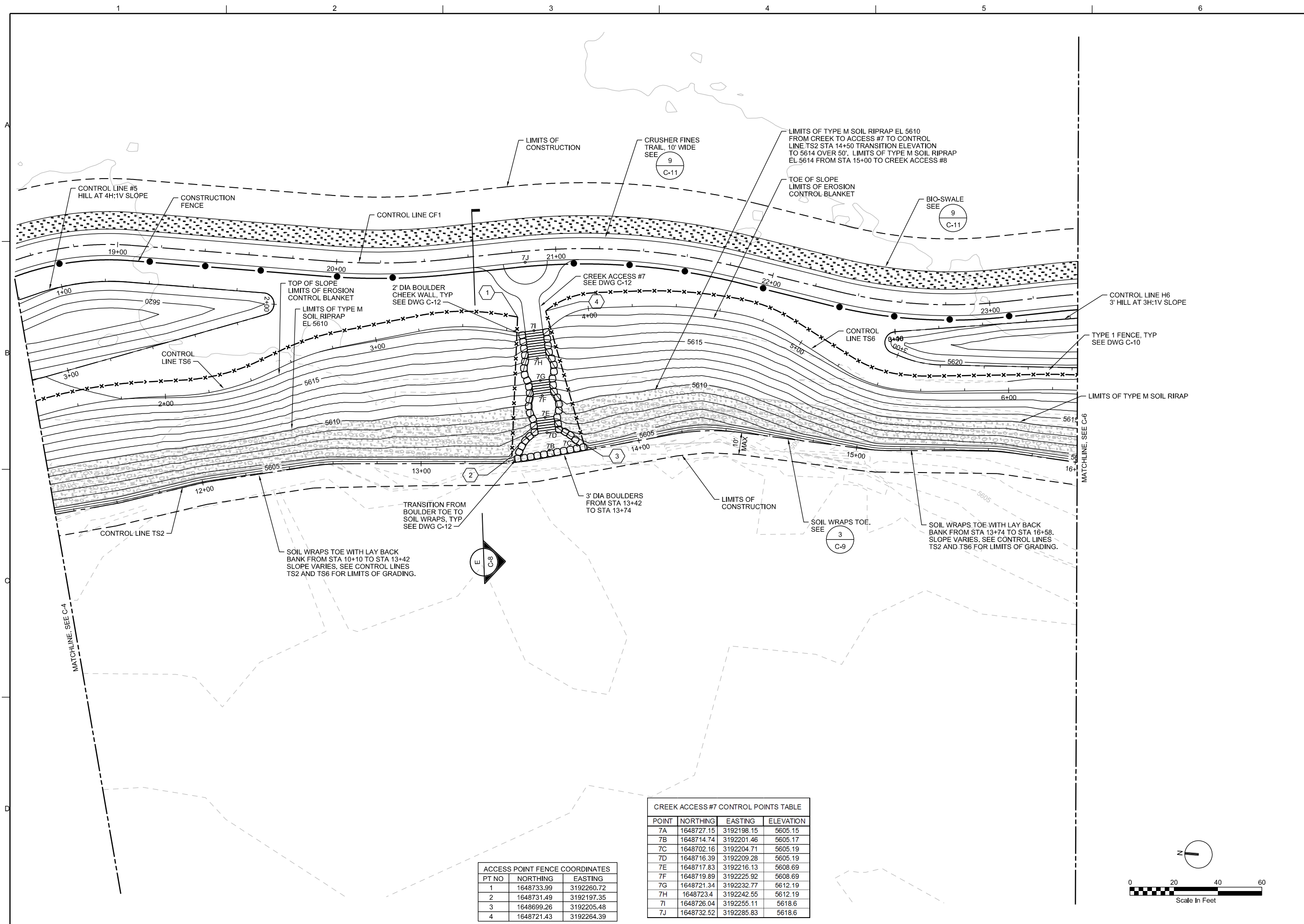
240050

DWG

C-4

SHEET

9

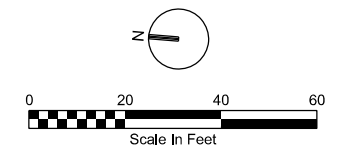


ACCESS POINT FENCE COORDINATES

PT NO	NORTHING	EASTING
1	1648733.99	3192260.72
2	1648731.49	3192197.35
3	1648699.26	3192205.48
4	1648721.43	3192264.39

CREEK ACCESS #7 CONTROL POINTS TABLE

POINT	NORTHING	EASTING	ELEVATION
7A	1648727.15	3192198.15	5605.15
7B	1648714.74	3192201.46	5605.17
7C	1648702.16	3192204.71	5605.19
7D	1648716.39	3192209.28	5605.19
7E	1648717.83	3192216.13	5608.69
7F	1648719.89	3192225.92	5608.69
7G	1648721.34	3192232.77	5612.19
7H	1648723.4	3192242.55	5612.19
7I	1648726.04	3192255.11	5618.6
7J	1648732.52	3192285.83	5618.6



CH2MHILL

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

GRADING PLAN 5

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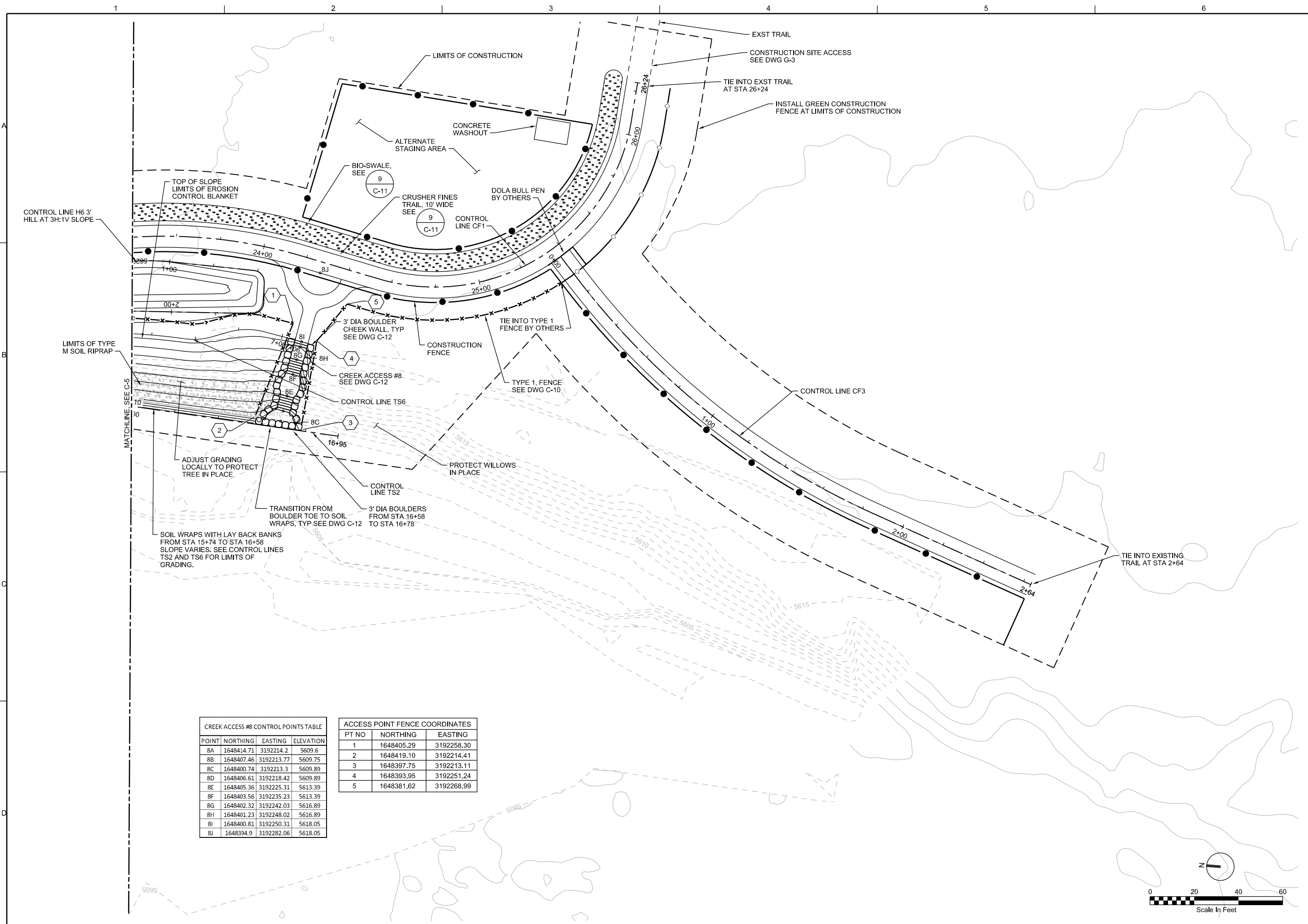
S. YAMAGIHARA
APVR BY
C. HOOPER
CHK
S. MILLER
DR
A. COOK

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE: OCTOBER 2012
 PROJ: 240050
 DWG: C-5
 SHEET: 10

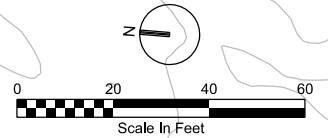


CREEK ACCESS #8 CONTROL POINTS TABLE

POINT	NORTHING	EASTING	ELEVATION
8A	1648414.71	3192214.2	5609.6
8B	1648407.46	3192213.77	5609.75
8C	1648400.74	3192213.3	5609.89
8D	1648406.61	3192218.42	5609.89
8E	1648405.36	3192225.31	5613.39
8F	1648403.56	3192235.23	5613.39
8G	1648402.32	3192242.03	5616.89
8H	1648401.23	3192248.02	5616.89
8I	1648400.81	3192250.31	5618.05
8J	1648394.9	3192282.06	5618.05

ACCESS POINT FENCE COORDINATES

PT NO	NORTHING	EASTING
1	1648405.29	3192258.30
2	1648419.10	3192214.41
3	1648397.75	3192213.11
4	1648393.95	3192251.24
5	1648381.62	3192268.99



CH2MHILL

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

GRADING PLAN 6

NO	DATE	DESCRIPTION	APVD	
			BY	DATE

NO	DATE	DESCRIPTION	CHK	DR	APVD

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE: OCTOBER 2012

PROJ: 240050

DWG: C-6

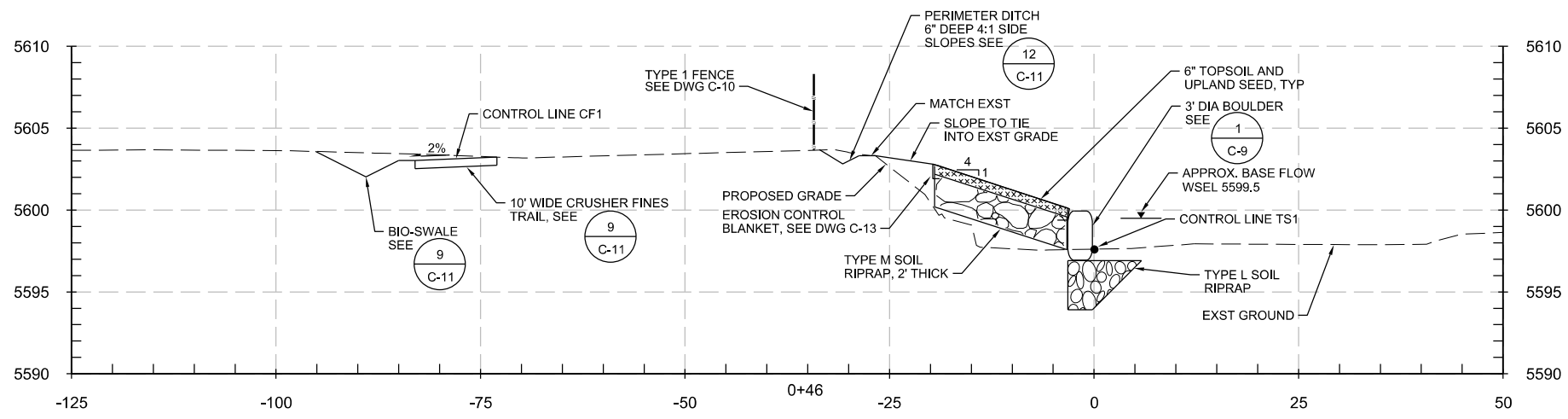
SHEET: 11

FILENAME: 12P2-005-C-006.dgn

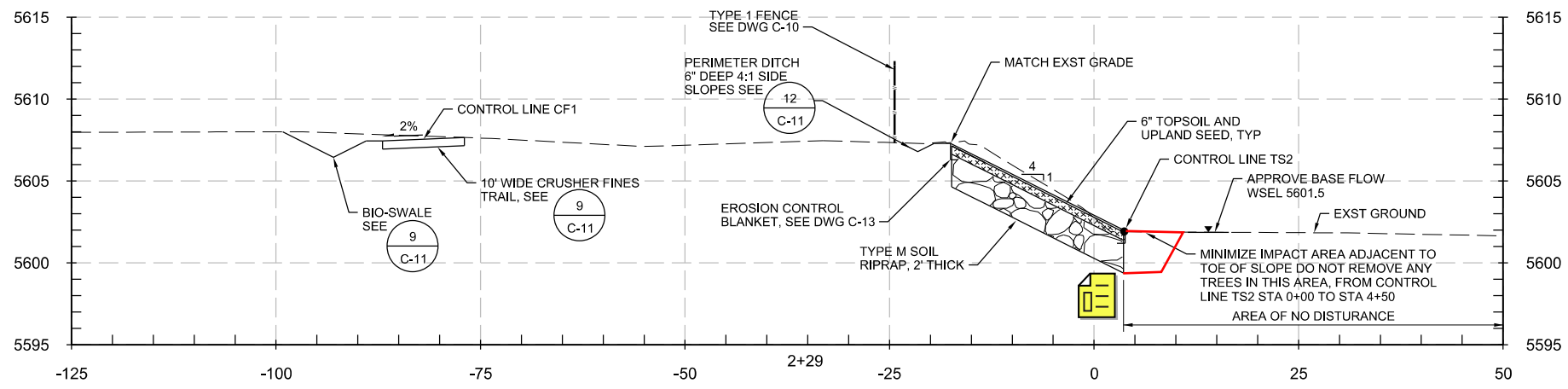
PLOT DATE: 2012/10/29

PLOT TIME: 10:59:33 AM

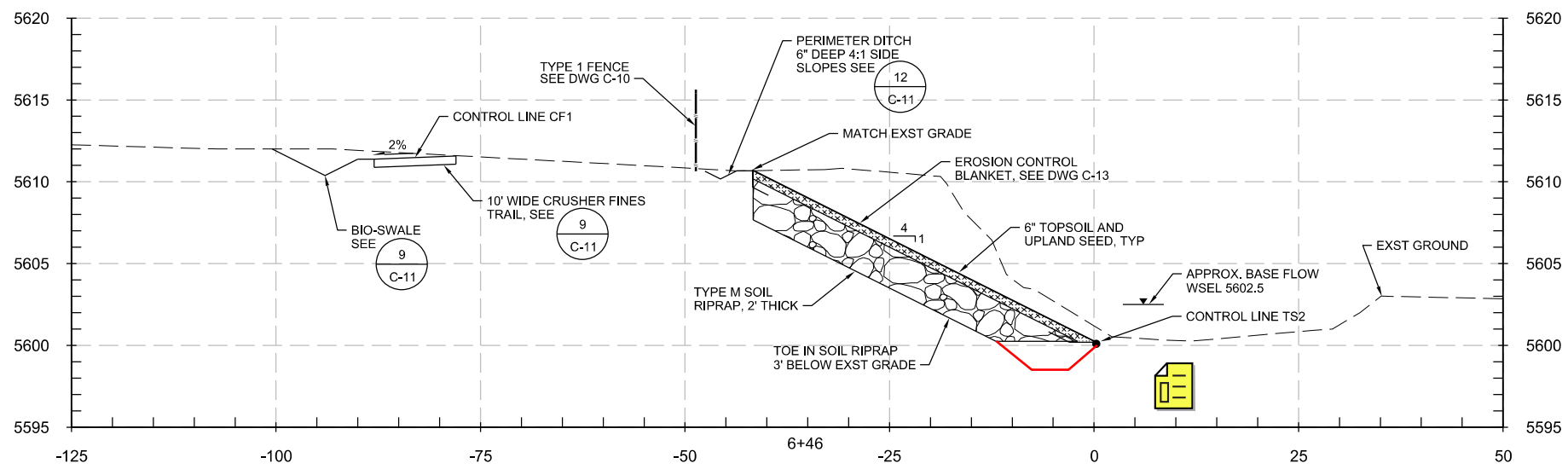
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A BOULDER TOE SECTION
H:1"=10' V:1"=5'
C-2

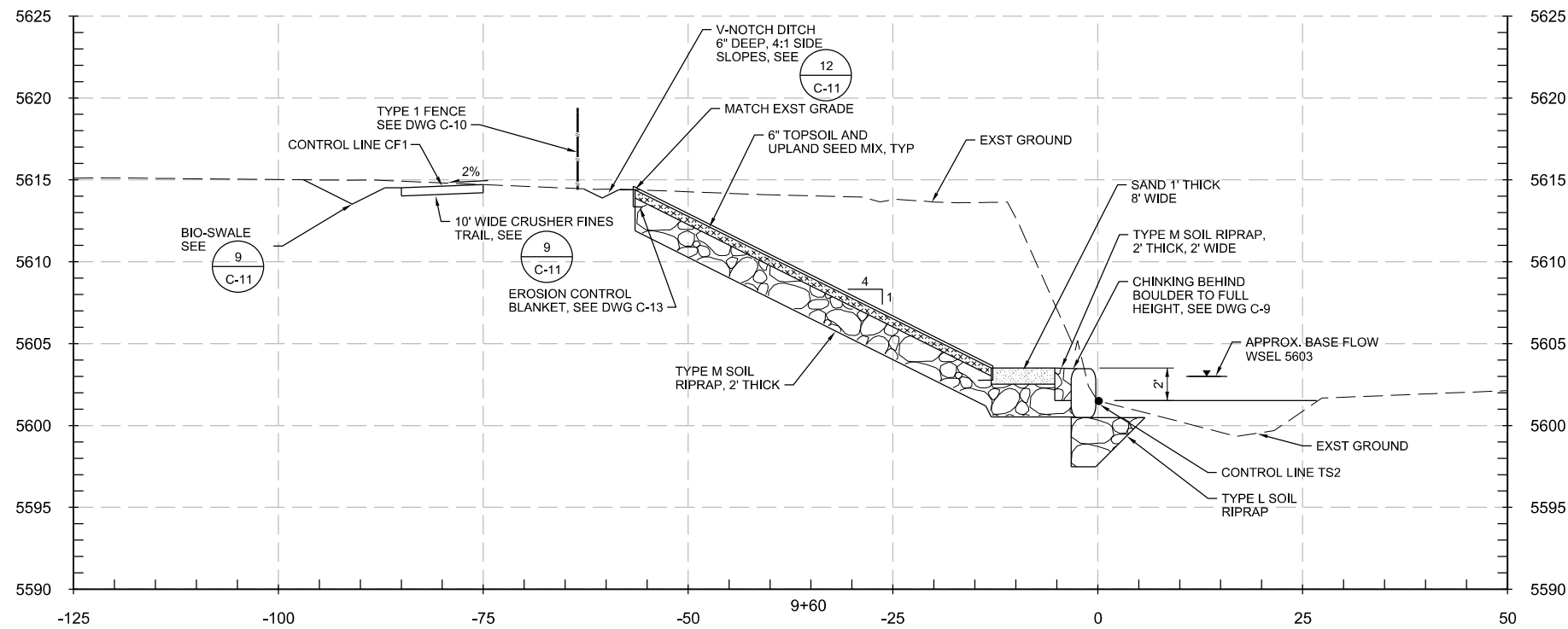


B LAYBACK SLOPES SECTION
H:1"=10' V:1"=5'
C-3

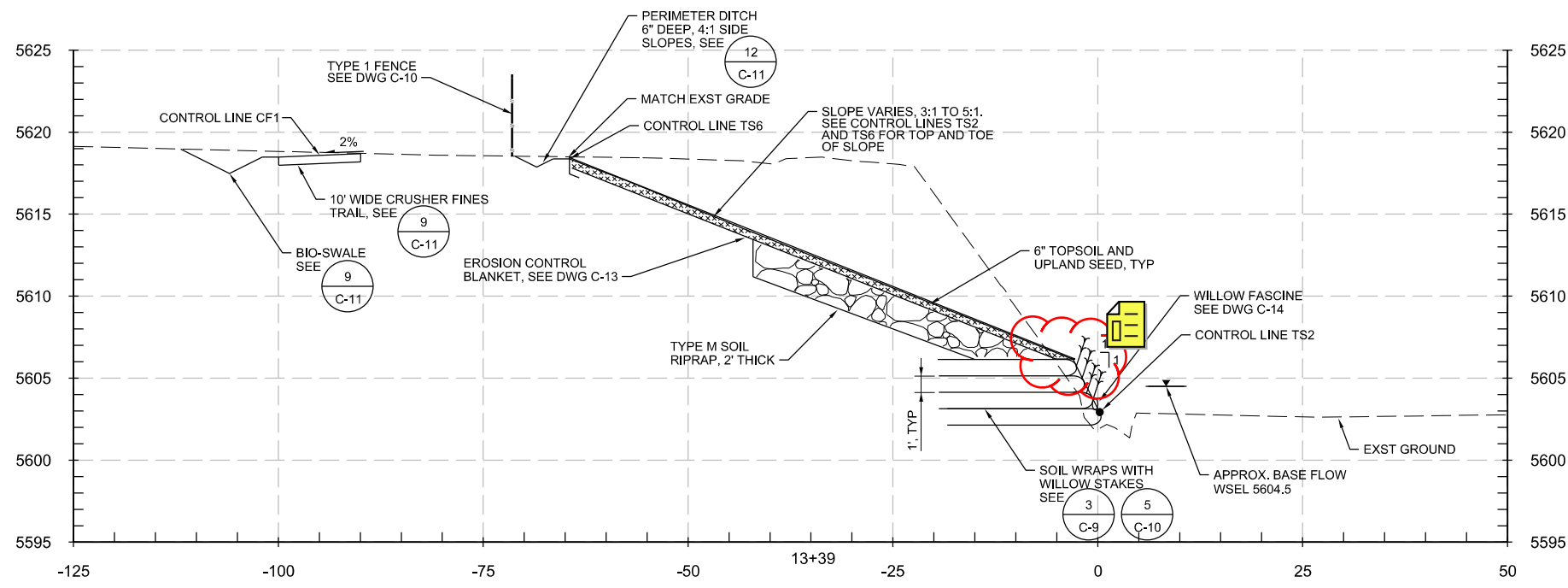


C LAYBACK SLOPES SECTION
H:1"=10' V:1"=5'
C-4

CH2MHILL CHERRY CREEK BASIN WATER QUALITY AUTHORITY CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY	DESCRIPTION REVISION CHK S MILLER	APVD N BY APVD S YAMAGIHARA
	NO DATE DSGN A COOK	DATE DR A COOK
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	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 10'	
DATE OCTOBER 2012		PROJ 240050
DWG C-7		SHEET 12



D BOULDER TOE WITH BEACH SECTION
 H:1"=10' V:1"=5'
 C-4

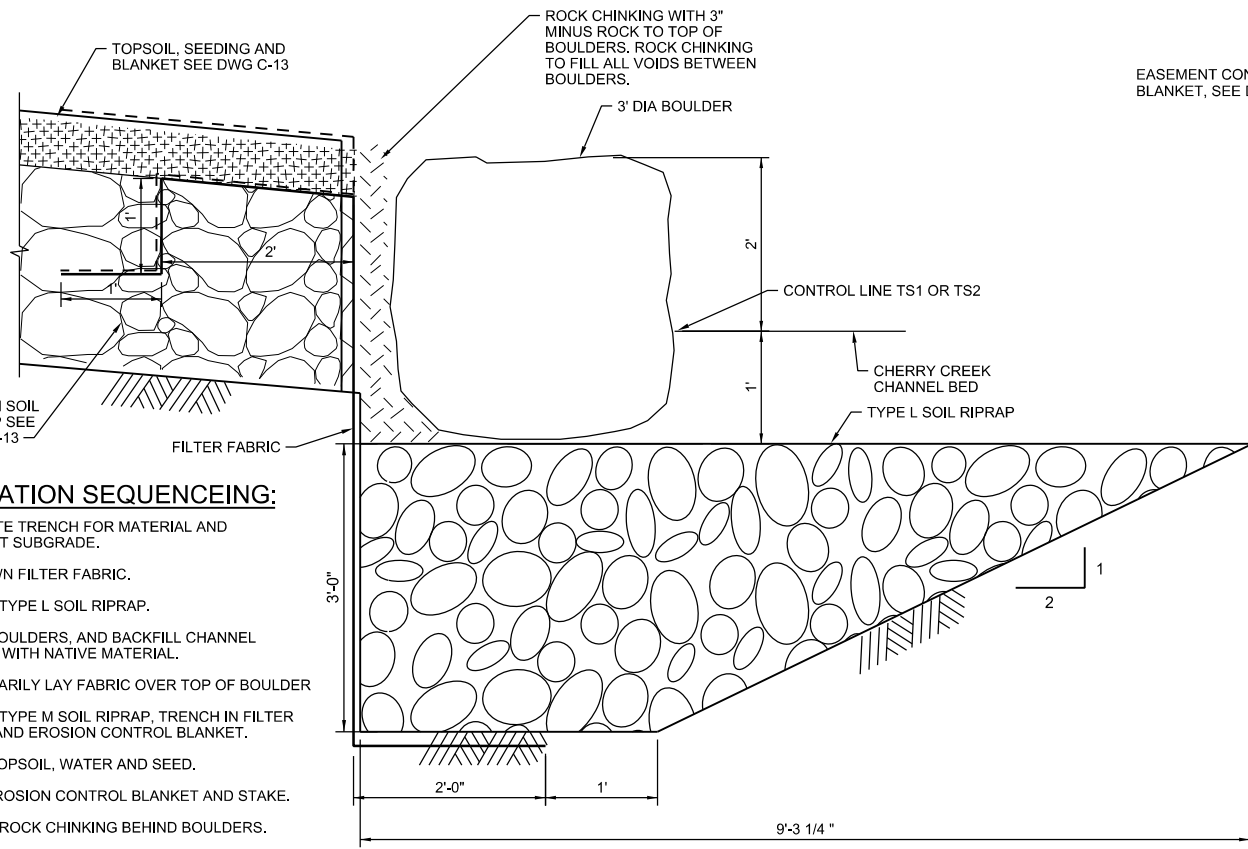


E SOIL WRAPS WITH LAYBACK SLOPES SECTION
 H:1"=10' V:1"=5'
 C-5

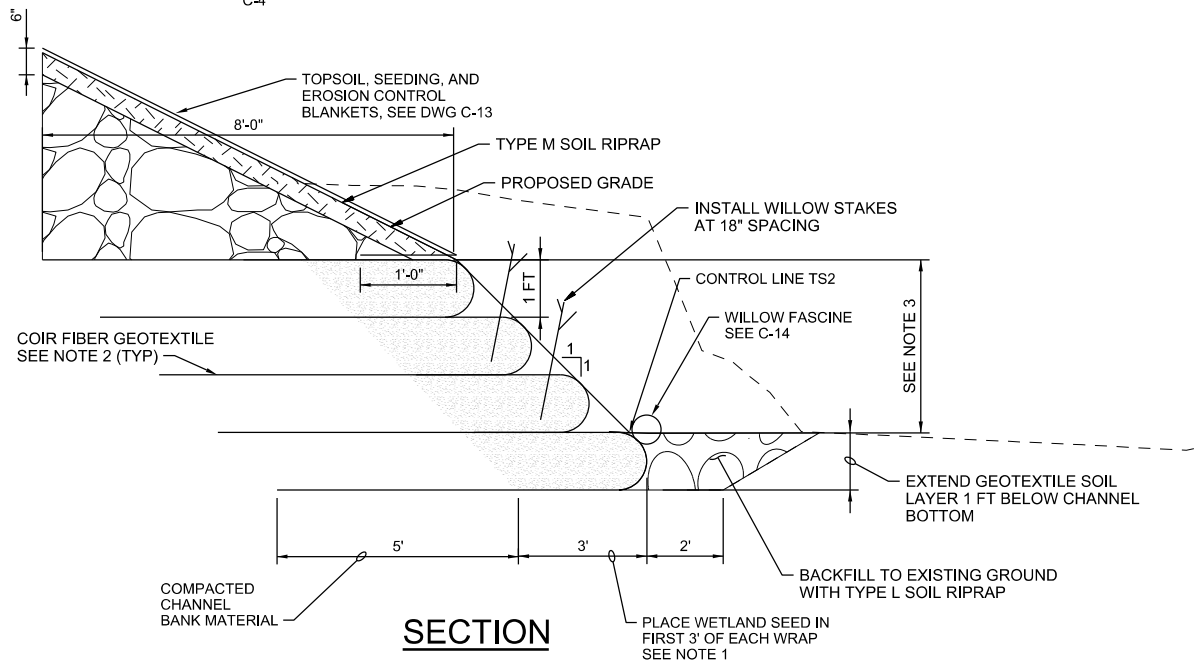
CHERRY CREEK BASIN WATER QUALITY AUTHORITY		DESCRIPTION		APVD	
		NO.	DATE	BY	DATE
CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY		REVISION		APVD	
		DGN	CHK	DR	APVD
CH2MHILL		CROSS SECTIONS		S. YAMAGISHI	
		CROSS SECTIONS		C. HOOPER	
VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING		1"	
DATE	OCTOBER 2012	PROJ	240050	DWG	C-8
SHEET	13				

INSTALLATION SEQUENCEING:

1. EXCAVATE TRENCH FOR MATERIAL AND COMPACT SUBGRADE.
2. LAY DOWN FILTER FABRIC.
3. INSTALL TYPE L SOIL RIPRAP.
4. PLACE BOULDERS, AND BACKFILL CHANNEL BOTTOM WITH NATIVE MATERIAL.
5. TEMPORARILY LAY FABRIC OVER TOP OF BOULDER
6. INSTALL TYPE M SOIL RIPRAP, TRENCH IN FILTER FABRIC AND EROSION CONTROL BLANKET.
7. PLACE TOPSOIL, WATER AND SEED.
8. WRAP EROSION CONTROL BLANKET AND STAKE.
9. INSTALL ROCK CHINKING BEHIND BOULDERS.
10. INSTALL WILLOW STAKING WHERE APPLICABLE.

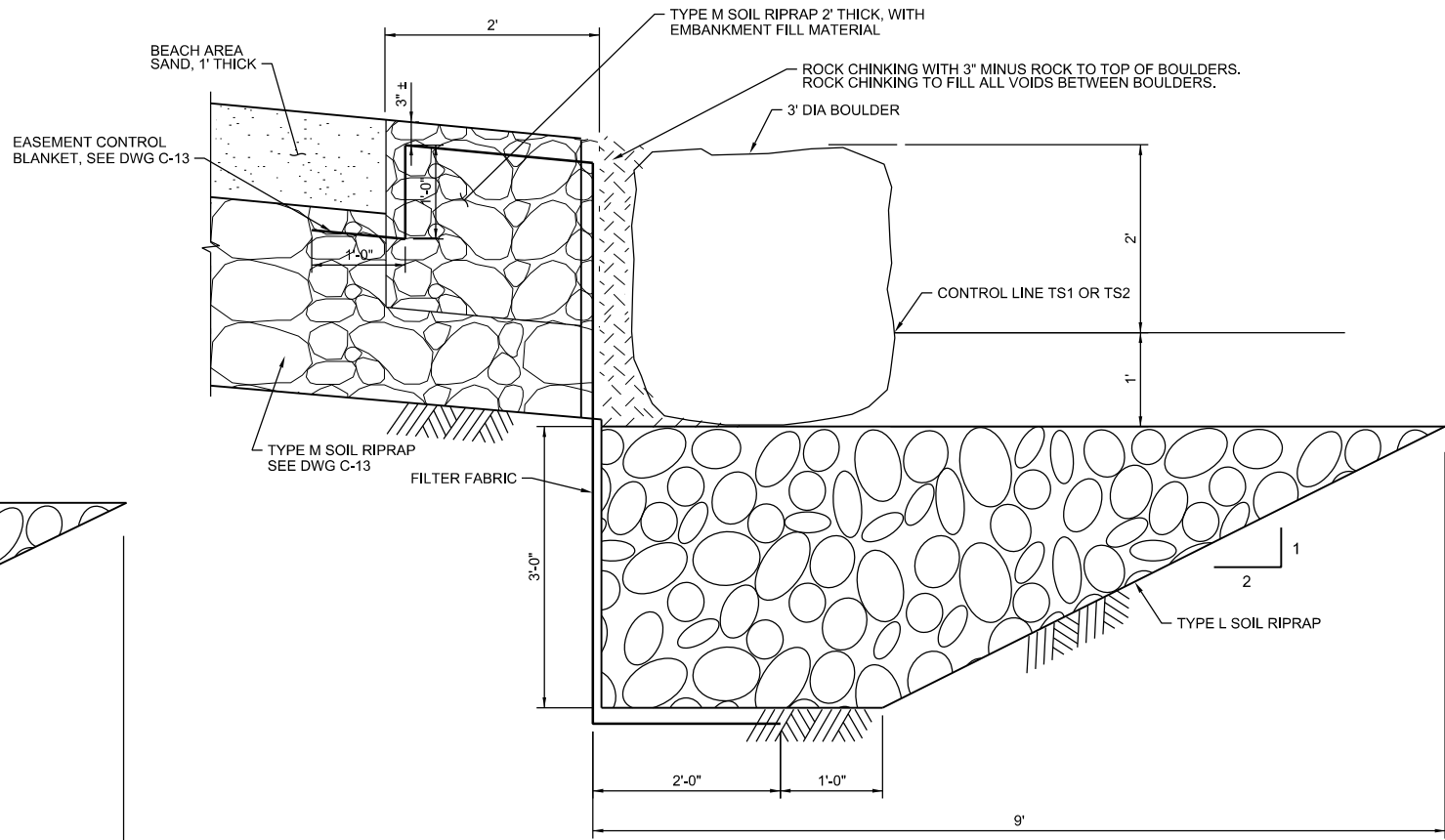


1 BOULDER EDGING DETAIL
1"=1'-0"

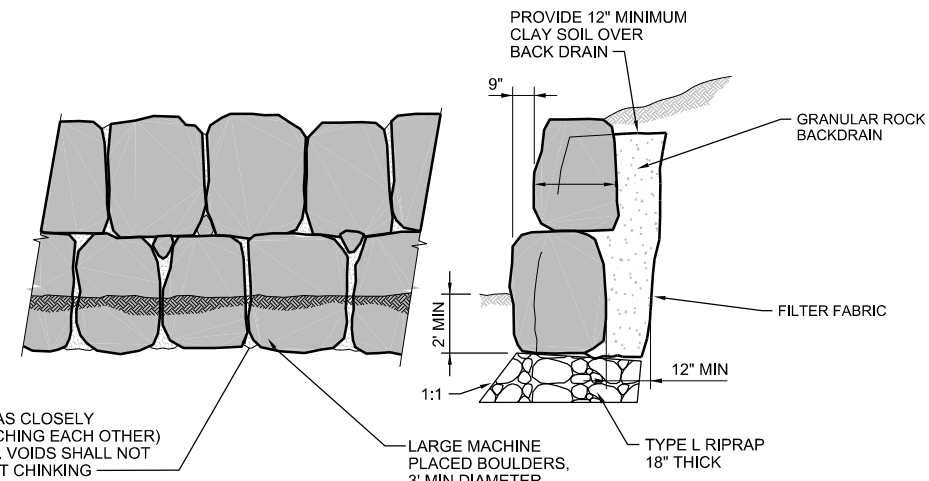


1. COMPACTED SOIL BACKFILL SHALL CONSIST OF 50% BY VOLUME OF SOIL TAKEN FROM BANKS OF CHANNEL, THAT IS MIXED WITH 50% BY VOLUME OF TOPSOIL ON SITE, BEFORE PLACEMENT AS CHANNEL LINER.
2. BUILD GEOTEXTILE SOIL LAYERS APPROXIMATELY 3 FT ABOVE TOE OF SLOPE.

3 SOIL WRAPS DETAIL
NTS



2 BOULDER EDGING WITH BEACH DETAIL
1"=1'-0"

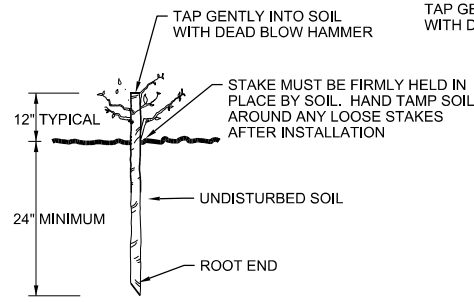


NOTE:
1. BOULDER WALL DETAIL ONLY APPLIES TO BOULDER WALL ON DWG C-4 ADJACENT TO CREEK ACCESS #5
2. TOE OF BOULDER WALL MAY BE ADJUSTED IN THE FIELD TO AVOID TREES AND ROOTS, AS DIRECT BY THE ENGINEER.

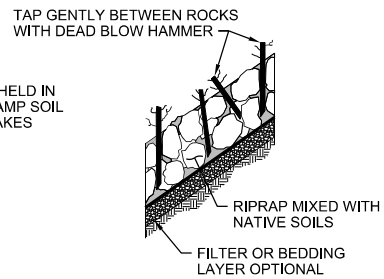
4 BOULDER WALL DETAIL
NTS

CHERRY CREEK BASIN WATER QUALITY AUTHORITY		CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY	
NO	DATE	DESCRIPTION	APVR
NO.	DATE	REVISION	BY
DGN		CHK	APVD
		DR	APVD
		S MILLER	C HOOPER
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CH2MHILL			
DETAILS			
VERIFY SCALE			
BAR IS ONE INCH ON ORIGINAL DRAWING.			
DATE	OCTOBER 2012		
PROJ	240050		
DWG	C-9		
SHEET	14		

BARE GROUND INSTALLATION



RIPRAP "JOINT" INSTALLATION



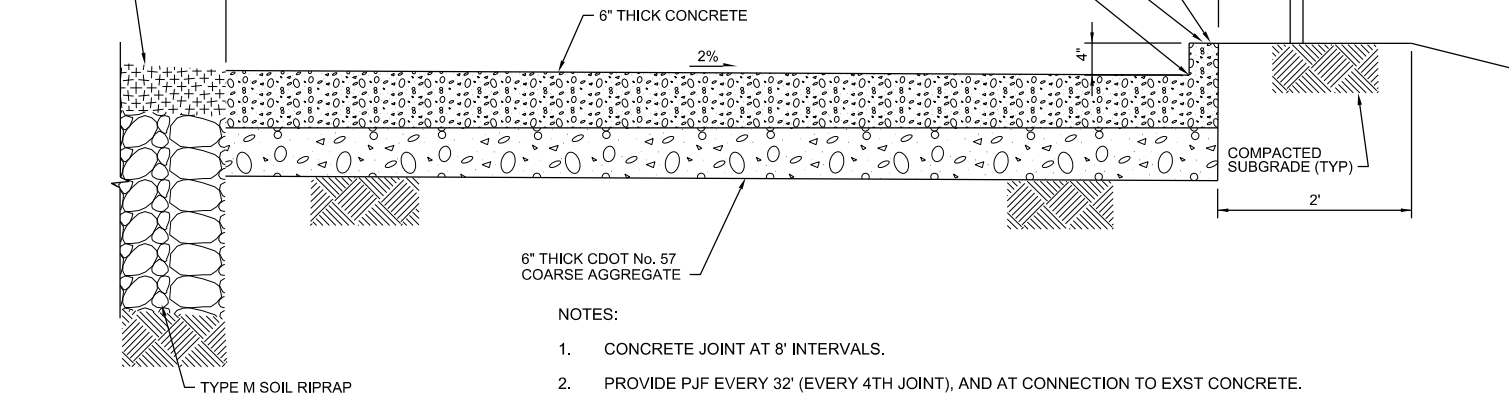
NOTES:

1. THE STAKE SHALL BE INSERTED INTO THE HOLE SO STAKE IS IN CONTACT WITH WATER TABLE.
2. CUT STAKE AND INSTALL STAKES WITH A MINIMUM OF 4 BUDS ABOVE AND 4 BUDS BELOW FINISHED GRADE.

5 WILLOW STAKE DETAIL

NTS
C-3
C-4
C-5
C-6

TOPSOIL, SEEDING,
AND BLANKET
SEE DWG C-13



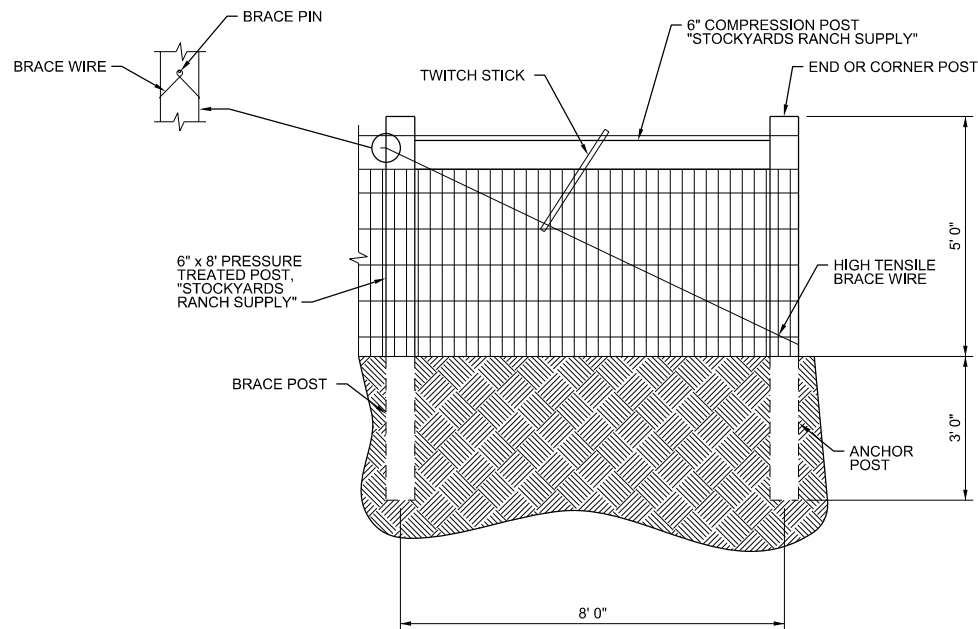
NOTES:

1. CONCRETE JOINT AT 8' INTERVALS.
2. PROVIDE PJF EVERY 32' (EVERY 4TH JOINT), AND AT CONNECTION TO EXST CONCRETE.
3. JOINTS SHALL BE SAW CUT NOT TOOLED JOINTS.
4. CONCRETE SHALL MEET REQUIREMENTS OF SPECIFICATION SECTIONS 3000.

SECTION

6 CONCRETE TRAIL DETAIL

1"=1'-0"
C-2

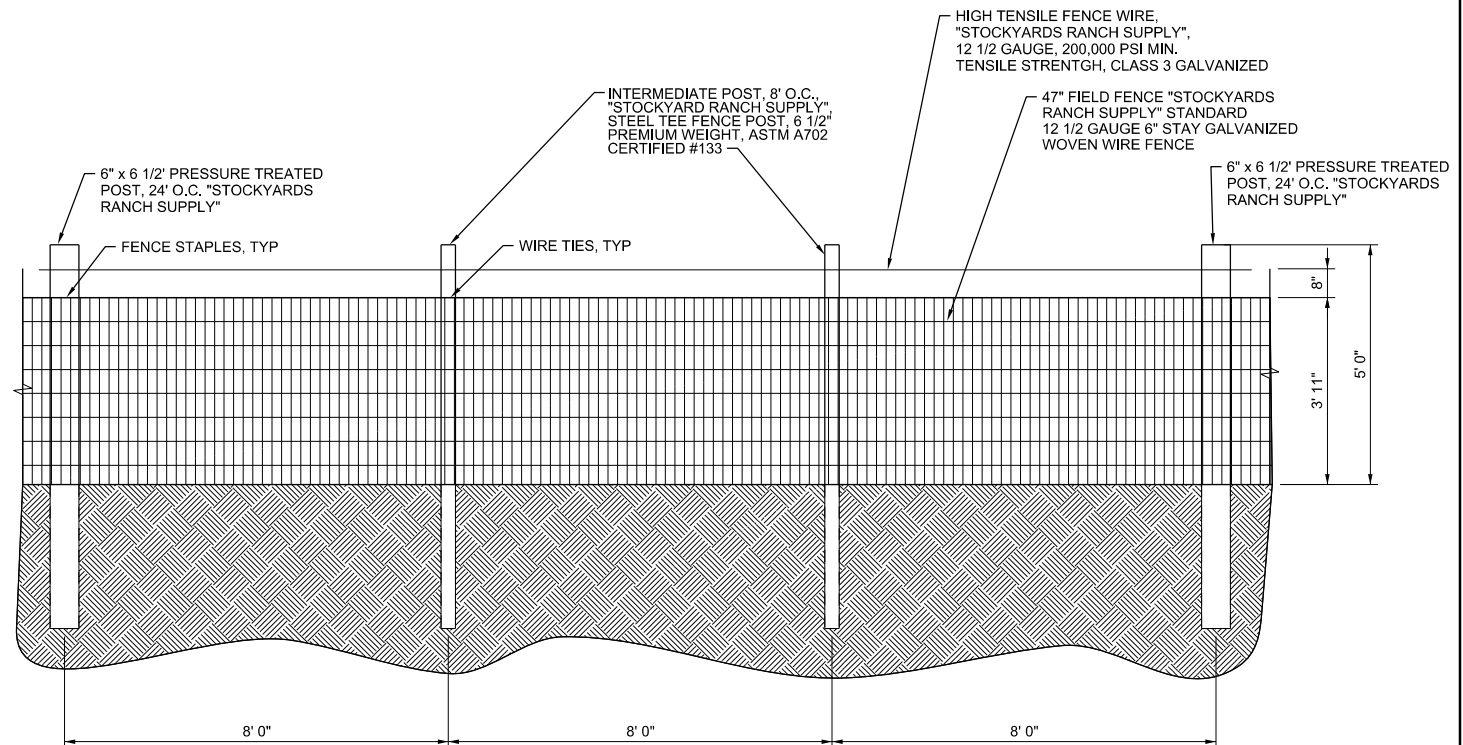


7 FENCE CORNER BRACE DETAIL

NTS
C-1
C-2
C-3
C-4
C-5
C-6

NOTES:

1. USE AT HORIZONTAL ALIGNMENT BREAKS GREATER THAN OR EQUAL TO 45° AND AT END POINTS.
2. USE FENCE CORNER BRACE AT VERTICAL ALIGNMENT BREAKS FROM FENCE AT THE TOP OF SLOPE TO FENCE ALONG THE BANK SLOPE.



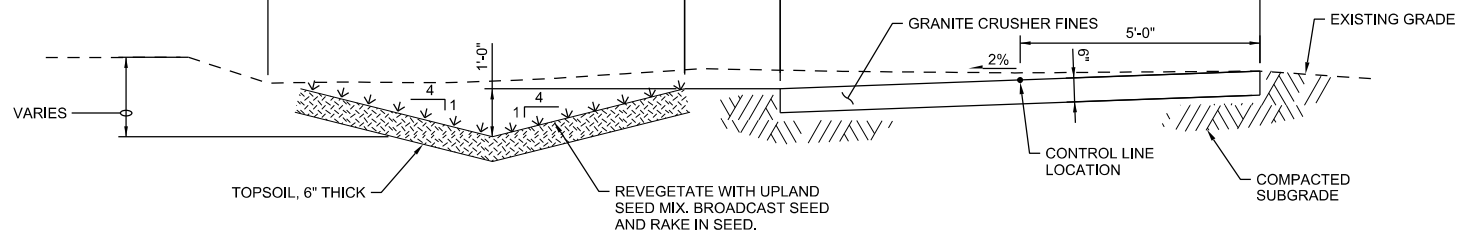
8 DOG PARK FENCE, TYPE 1

NTS
C-2
C-3
C-4
C-5
C-6

NOTE:

- FENCE POSTS ALONG BANK SLOPES SHALL BE VERTICAL WOVEN WIRE FENCE SHALL BE INSTALLED AT THE SAME SLOPE AS THE BANK.

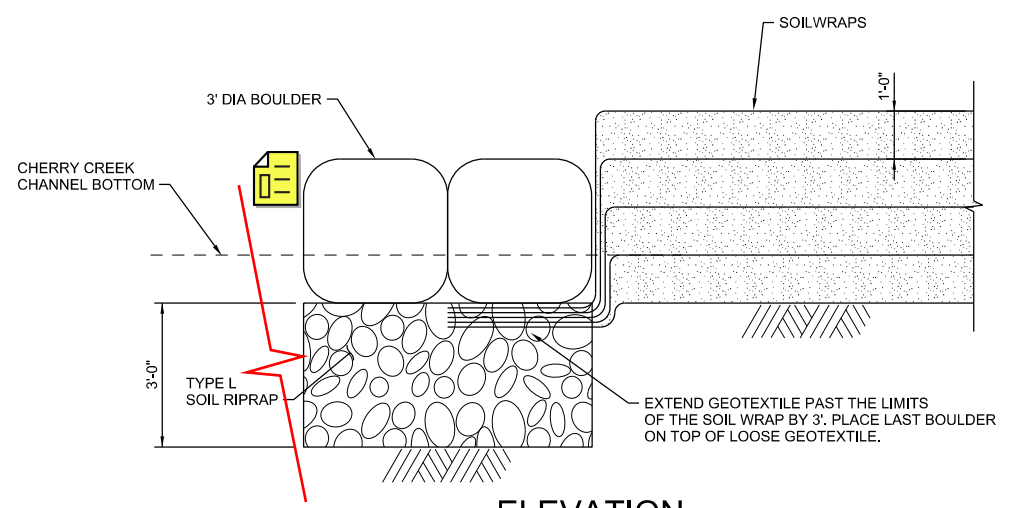
CHERRY CREEK BASIN WATER QUALITY AUTHORITY	CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY	NO.	DATE	DESCRIPTION	BY	DATE	
		DSGN	NO.	REVISION	CHK	DATE	
CH2MHILL		DR		APVD		S. YAMAGIHARA	
		A. COOK		C. HOOPER		S. YAMAGIHARA	
DETAILS		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE	
		DATE		OCTOBER 2012		PROJ	
		PROJ		240050		DWG	
		DWG		C-10		SHEET	
		SHEET		15		FILENAME: 12P2-095-DT-001.dgn	
		PLOT DATE:		2012/10/29		PLOT TIME:	
		PLOT TIME:		11:32:35 AM		© CH2M HILL 2004. ALL RIGHTS RESERVED.	



SECTION

9 TRAIL AND BIO-SWALE DETAIL
1/2"=1'-0"

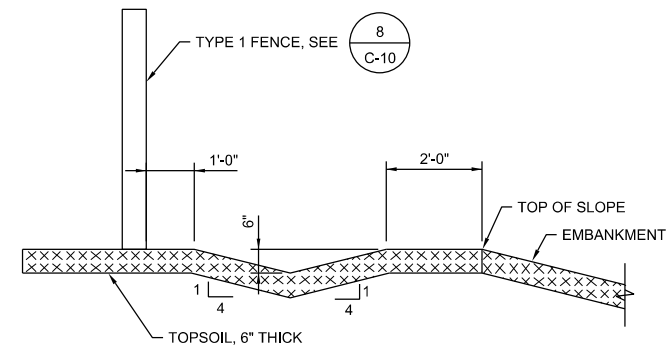
- C-1
- C-2
- C-3
- C-4
- C-5
- C-6



ELEVATION

10 TRANSITION FROM SOIL WRAPS TO BOULDER EDGING ELEVATION
1/2"=1'-0"

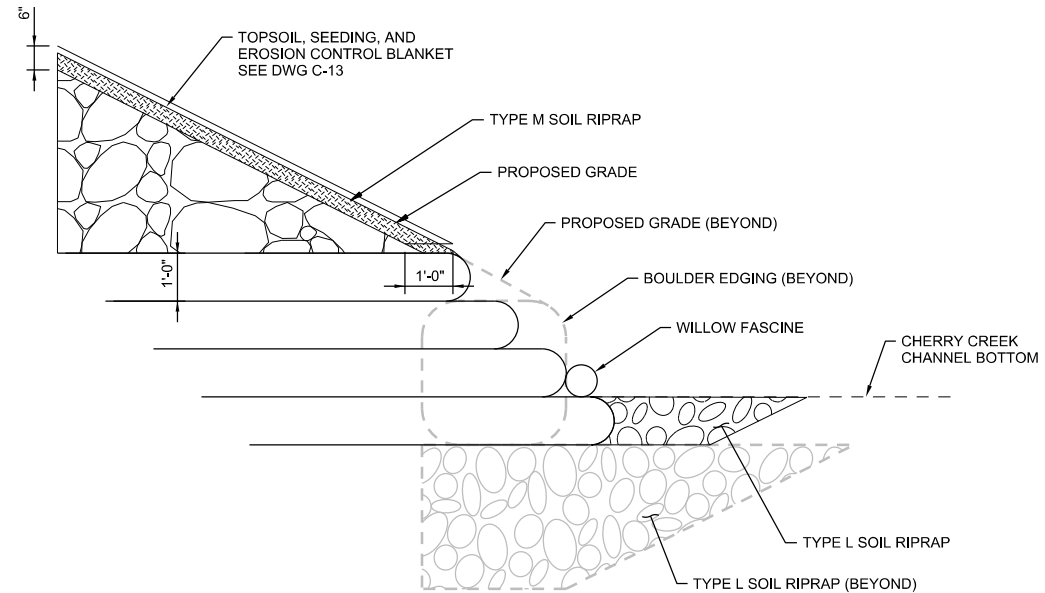
- C-4
- C-5
- C-6



SECTION

12 PERIMETER DITCH DETAIL
1/2"=1'-0"

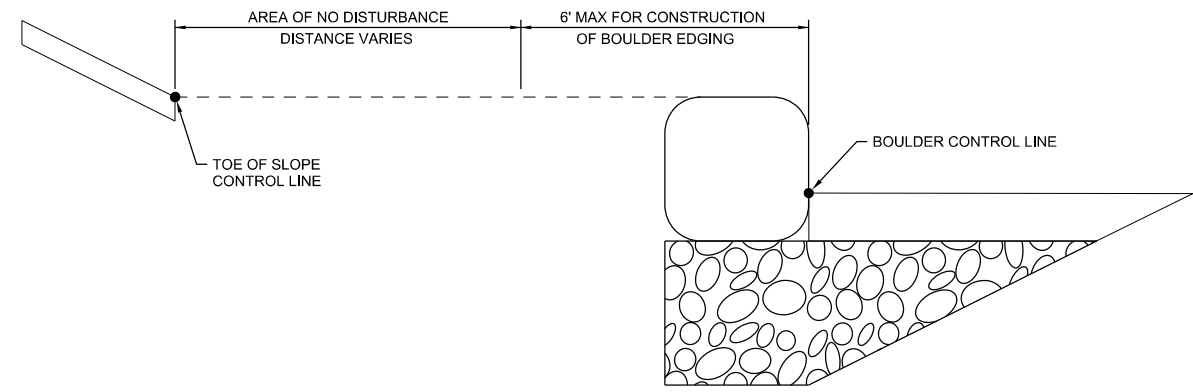
- C-7
- C-8



SECTION

11 TRANSITION FROM SOIL WRAPS TO BOULDER EDGING DETAIL
1/2"=1'-0"

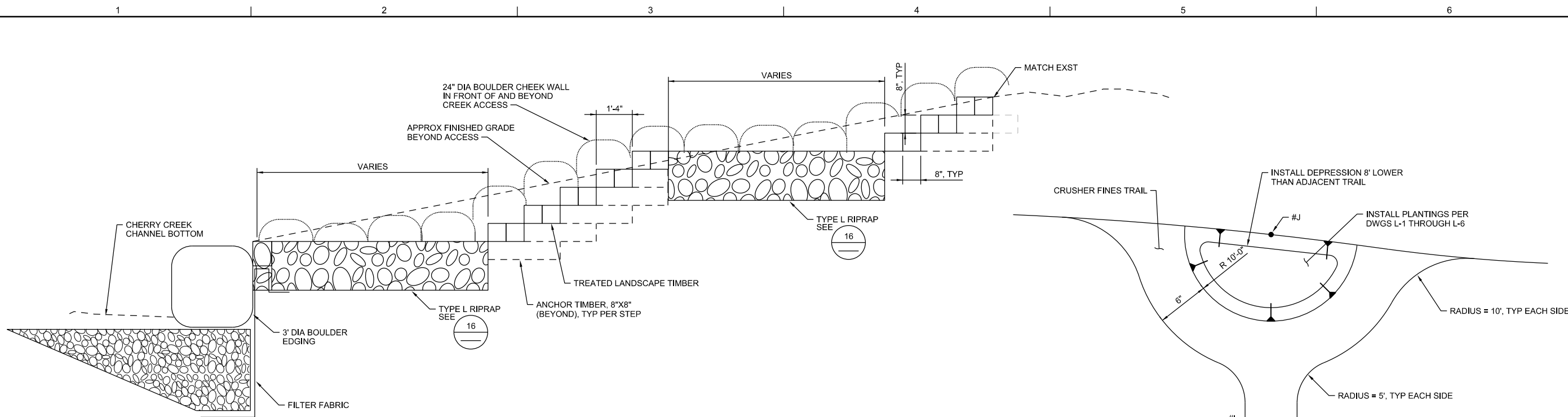
- C-4
- C-5
- C-6



13 AREA OF NO DISTURBANCE DETAIL
1/2"=1'-0"

- C-4
- C-5
- C-6

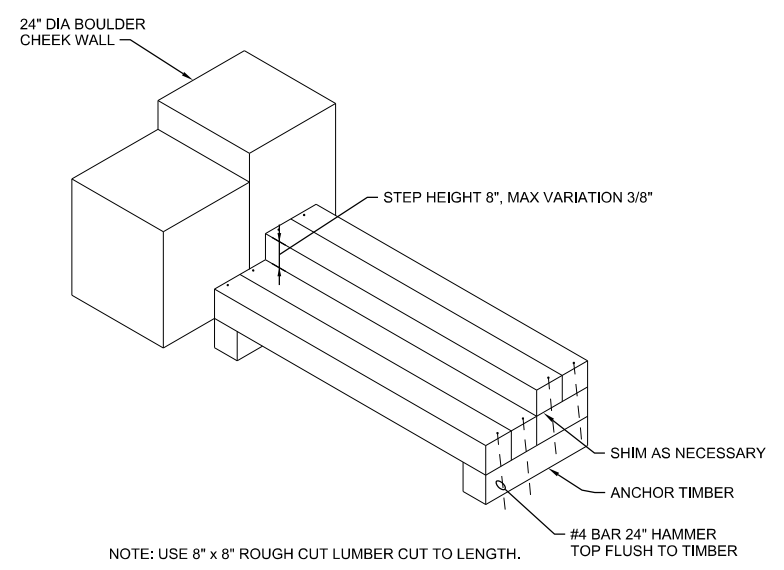
CHERRY CREEK BASIN WATER QUALITY AUTHORITY		CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY		CH2MHILL		DETAILS	
NO.	DATE	DESCRIPTION	REVISION	CHK	APVD	DR	APVD
				S MILLER	C HOOPER	A COOK	S YAMAGIHARA
REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2004. ALL RIGHTS RESERVED.							
VERIFY SCALE							
BAR IS ONE INCH ON ORIGINAL DRAWING.							
DATE	OCTOBER 2012						
PROJ	407259						
DWG	C-11						
SHEET	16						



NOTES:
 1. NUMBER OF STEPS VARIES PER ACCESS.
 2. BOULDER CHEEK WALLS ARE NECESSARY ON EACH SIDE OF THE CREEK ACCESS TO TIE INTO PROPOSED GRADE.

14 CREEK ACCESS SECTION
 1/2"=1'-0"

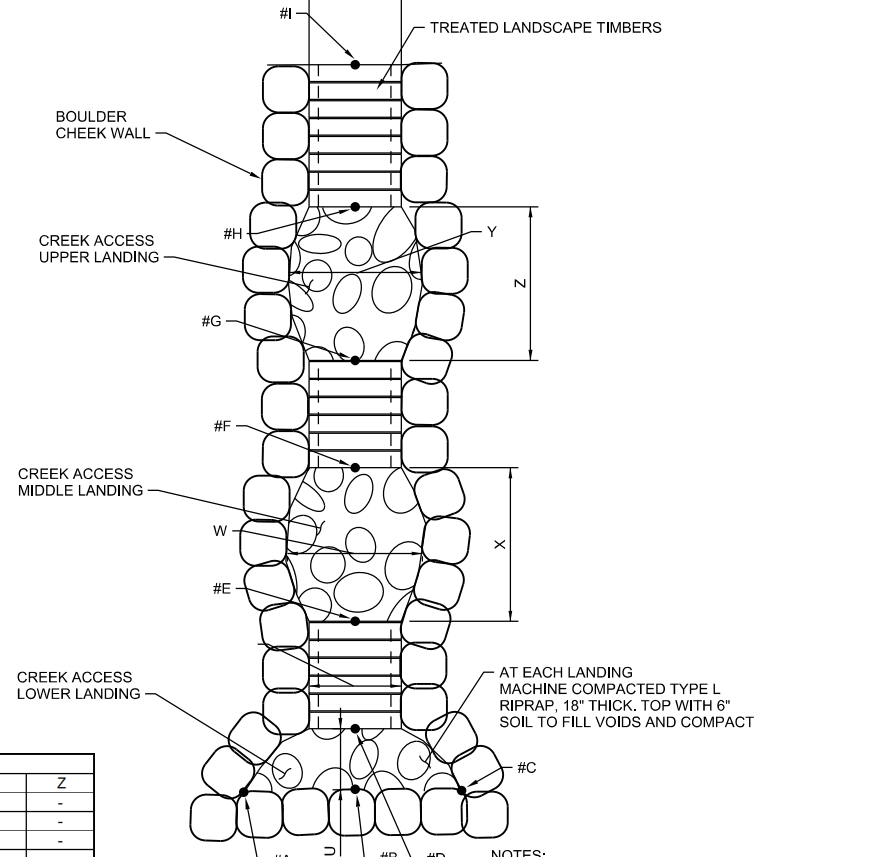
C-2
 C-3
 C-4
 C-5
 C-6



15 TIMBER STEP ISOMETRIC
 NTS

C-2
 C-3
 C-4
 C-5
 C-6

ACCESS #	U	V	W	X	Y	Z
1	9	8	-	-	-	-
2	11	8	8	-	-	-
3	6.5	6	9	10	-	-
4	5	6	9	10	-	-
5	SEE DWG C-4 FOR CREEK ACCESS #5					
6	4	6	9	10	9	10
7	8	8	10.5	10	10.5	10
8	5	6	9	10	6	6

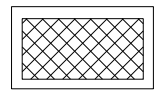


16 CREEK ACCESS PLAN
 NTS

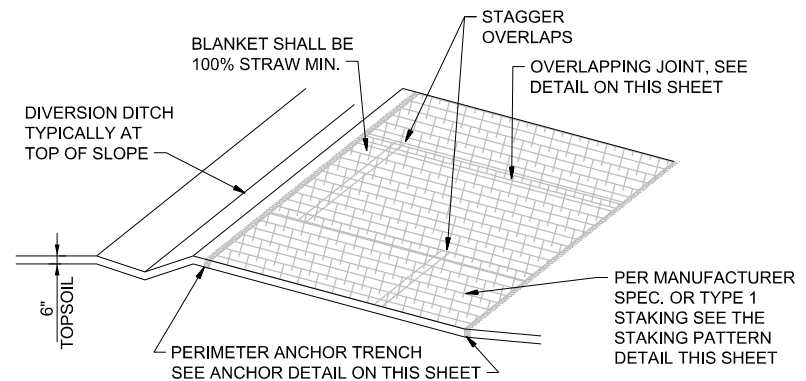
C-2
 C-3
 C-4
 C-5
 C-6

NOTES:
 1. #A THROUGH #J ARE ACCESS SPECIFIC CONTROL POINTS SHOWN ON PLAN VIEW DRAWINGS. # REPRESENTS ACCESS NUMBER.
 2. NUMBER OF LANDINGS VARIES BY CREEK ACCESS
 3. SEE CREEK ACCESS DIMENSIONS TABLE FOR DIMENSION U THROUGH Z.

CHERRY CREEK BASIN WATER QUALITY AUTHORITY		CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK		CHERRY CREEK STATE PARK		ARAPAHOE COUNTY	
CH2MHILL		DETAILS		APVD		S. YAMAGIHARA	
NO. DATE		DESCRIPTION REVISION		APVD		S. MILLER	
DSGN		CHK		DR		C. HOOPER	
NO. DATE		DESCRIPTION REVISION		APVD		S. YAMAGIHARA	
DSGN		CHK		DR		C. HOOPER	
NO. DATE		DESCRIPTION REVISION		APVD		S. YAMAGIHARA	
DSGN		CHK		DR		C. HOOPER	
VERIFY SCALE							
BAR IS ONE INCH ON ORIGINAL DRAWING.							
DATE		OCTOBER 2012		PROJ		407259	
DWG		C-12		SHEET		17	



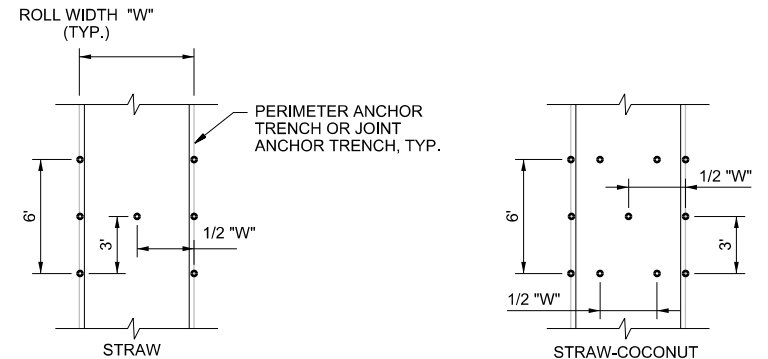
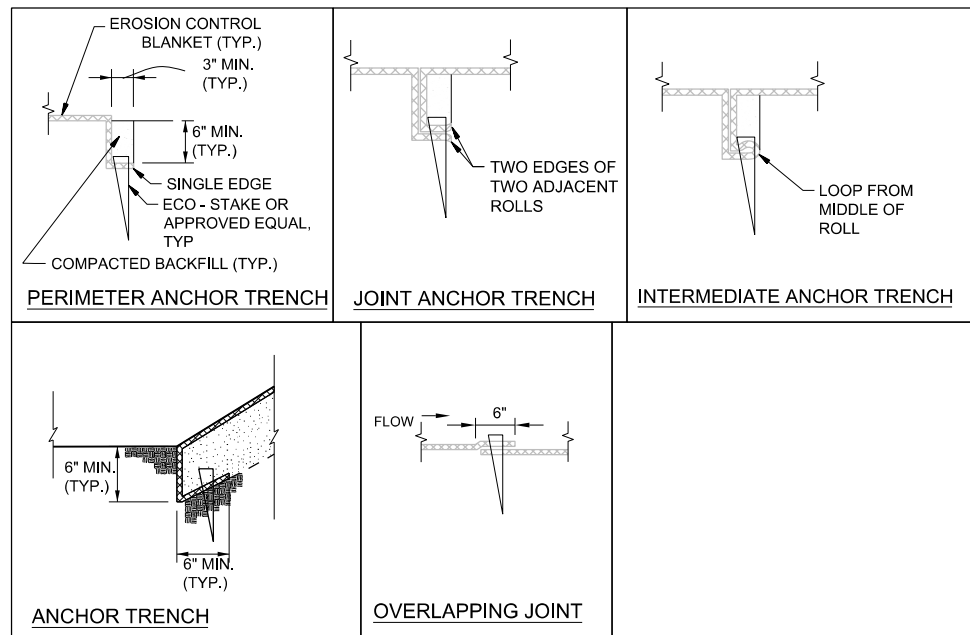
ECB



OUTSIDE OF STREAMS AND DRAINAGE CHANNELS

AT PIPE OUTLET AREAS OF STREAMS AND DRAINAGE CHANNELS - DETAIL A

ANCHOR DETAILS



STAKING PATTERNS

SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. IF NO MANUFACTURER'S SPECIFICATION IS AVAILABLE USE THE ACCEPTABLE STAKING PATTERN (AS SHOWN ABOVE)

EROSION CONTROL BLANKET INSTALLATION NOTES

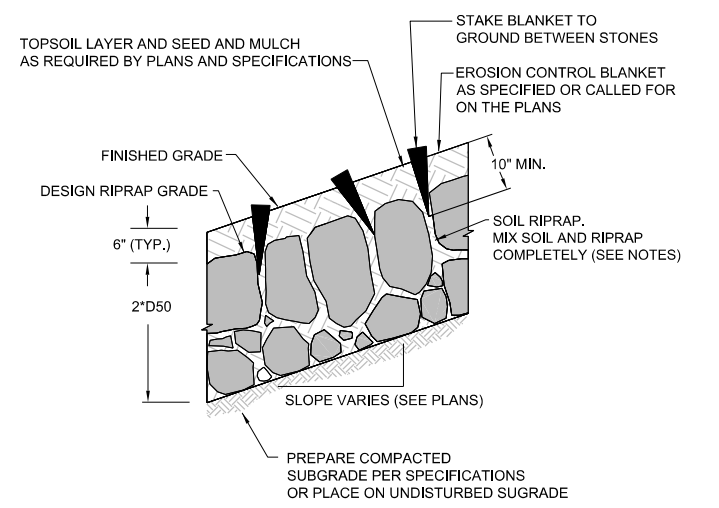
- SEE PLAN VIEW FOR:
 - LOCATION OF PERIMETER OF EROSION CONTROL BLANKET.
 - TYPE OF BLANKET C125BN OR APPROVED EQUAL
 - AREA "A" IN SQUARE YARDS OF EACH TYPE OF BLANKET.
- ALL EROSION CONTROL BLANKETS AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL (NOT INCLUDING COTTON) NO PLASTIC OR OTHER SYNTHETIC MATERIAL, EVEN IF PHOTO DEGRADABLE, SHALL BE ALLOWED.
- IN AREAS WHERE EROSION CONTROL BLANKET IS SHOWN ON THE PLANS, THE PERMITEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO THE BLANKET INSTALLATION AND THE BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE, NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED AT OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF BLANKET TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL BLANKETS EXCEPT STRAW, WHICH MAY USE AND OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF THE ROLL LENGTH FOR COCONUT AND EXCELSIOR BLANKETS.
- THE OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER FOR BLANKETS ON SLOPES.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKET SHALL BE RESEEDED AND MULCHED.

EROSION CONTROL BLANKET MAINTENANCE NOTES

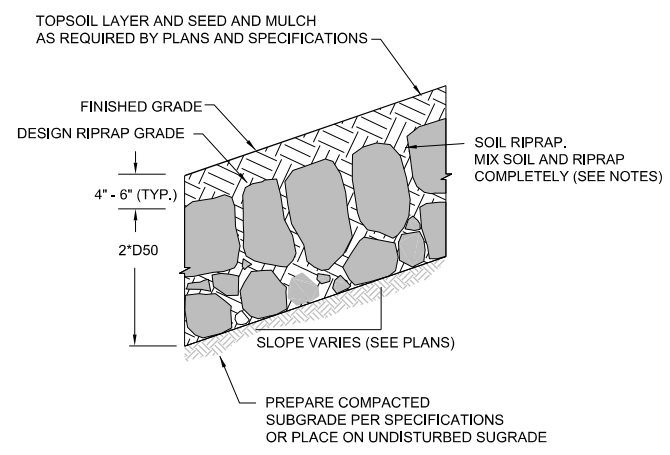
- THE SWMP MANAGER SHALL INSPECT EROSION CONTROL BLANKETS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.
- EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE RE-INSTALLED. ANY SUBGRADE AREAS BELOW THE BLANKET THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

EROSION CONTROL BLANKET

NTS



TYPICAL SECTION - SOIL RIPRAP WITH EROSION CONTROL FABRIC



TYPICAL SECTION - SOIL RIPRAP WITH MUCLH

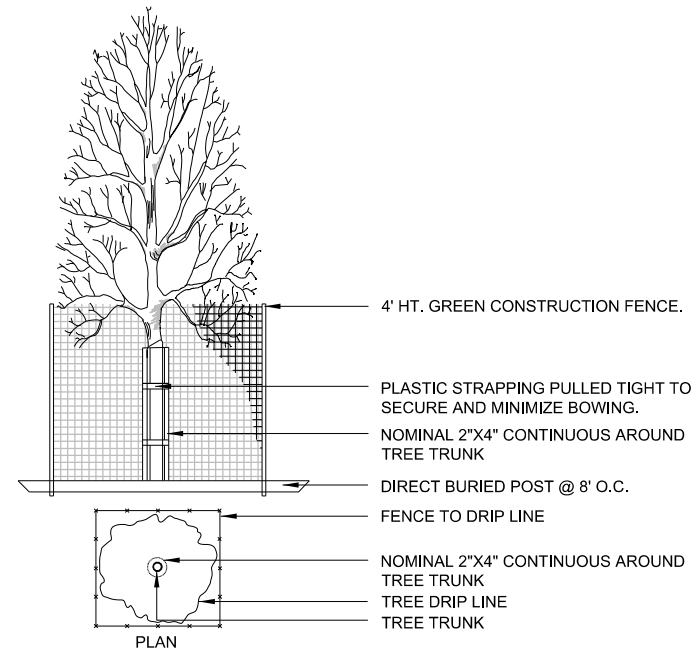
NOTES:

- SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
- MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
- PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
- CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.

SOIL RIPRAP

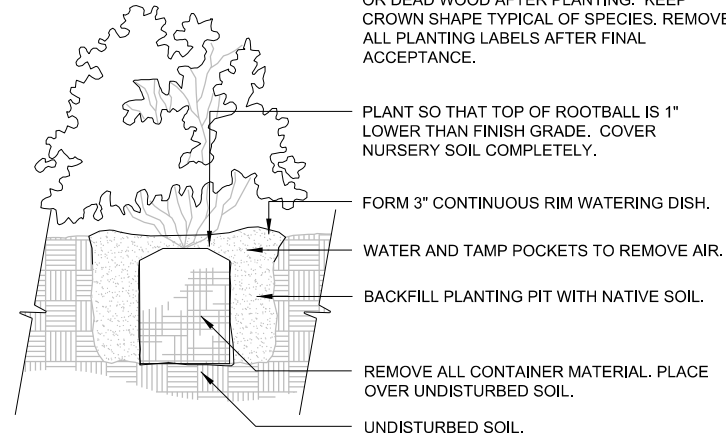
NTS

CHERRY CREEK BASIN WATER QUALITY AUTHORITY	CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY	NO. DATE	DR	A COOK	DESCRIPTION	APVR	N
		NO. DATE	DGN	S MILLER	REVISION	BY	APVD
				C HOOPER	CHK	APVD	S YANAGIHARA
						APVD	© CH2M HILL 2004. ALL RIGHTS RESERVED.
CH2MHILL		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.			
		DATE	OCTOBER 2012				
		PROJ	240050				
		DWG	C-13				
SHEET		18					



TREE PROTECTION

NTS

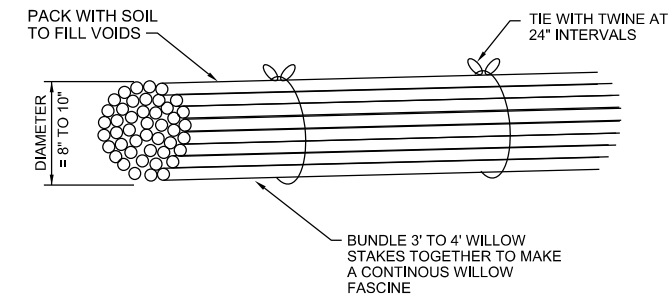


NATIVE SHRUB PLANTING

NTS

TREE PROTECTION NOTES:

- PRESERVATION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. CONSTRUCTION MAY BE HALTED IF TREE PRESERVATION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 3 INCH BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED. TREE PROTECTION ZONES SHALL HAVE A 6 FOOT MINIMUM DIAMETER.
- FENCING SHALL BE 4 FEET TALL SNOW FENCING WITH STEEL POST EMBEDDED IN THE GROUND.
- NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCES AREA OF EXISTING TREES.
- CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED.
- UNAUTHORIZED TREE REMOVAL OR DAMAGE IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF ALL EXISTING TREES TO REMAIN, PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE



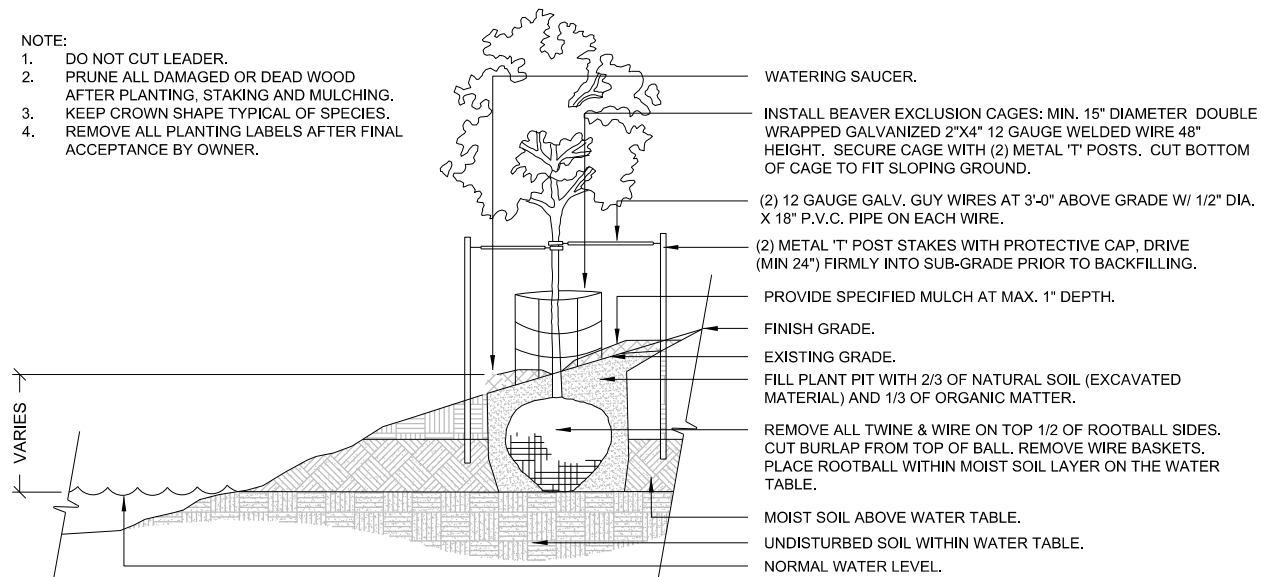
NOTES:

- PREPARE LIVE FASCINE WITH 1/2 INCH TO 1 INCH DIA WILLOW CUTTINGS WITH ALTERNATING BUTT ENDS AND TIE SECURELY WITH BIODEGRADABLE TWINE.
- OVERLAP THE TAPERED ENDS OF ADJACENT LIVE WILLOW FASCINES SO THAT OVERALL DIAMETER IS UNIFORM AND TIE TOGETHER.
- FASCINES SHALL BE STAKED FIRMLY IN PLACE WITH ONE ROW OF TWO (2) FT LONG DIAGONALLY CUT TWO (2) INCH BY FOUR (4) INCH WOODEN STAKES EVERY TWENTY FOUR (24) INCHES, ALTERNATING SIDES OF THE FASCINE.

WILLOW FASCINE DETAIL

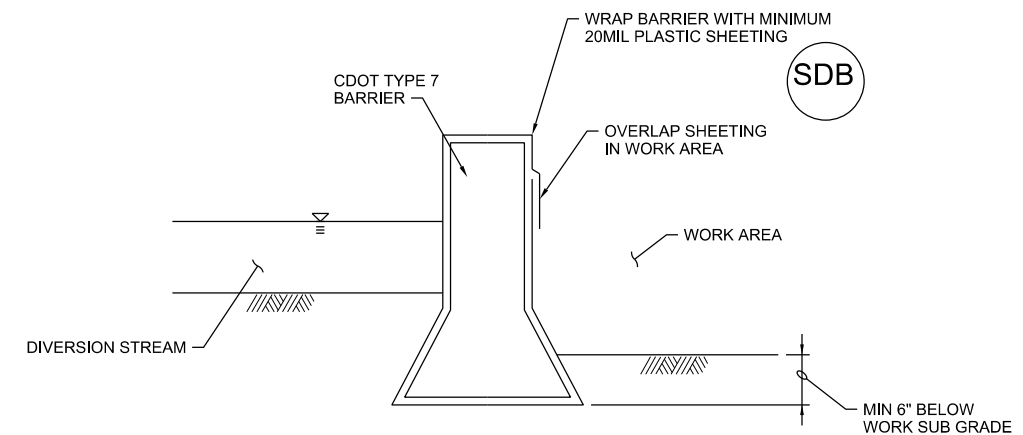
NTS

- NOTE:
- DO NOT CUT LEADER.
 - PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING AND MULCHING.
 - KEEP CROWN SHAPE TYPICAL OF SPECIES.
 - REMOVE ALL PLANTING LABELS AFTER FINAL ACCEPTANCE BY OWNER.



DEEP TREE PLANTING FOR B&B COTTONWOOD SPECIES

NTS



SECTION

- NOTES:
- CONTRACTOR MAY SUBMIT AN ALTERNATIVE WATER DIVERSION SYSTEM, BUT IS SUBJECT TO APPROVAL BY ENGINEER.

STREAM DIVERSION BARRIER

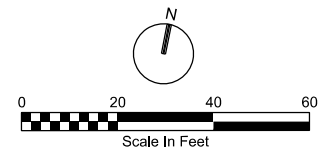
NTS

CHERRY CREEK BASIN WATER QUALITY AUTHORITY		CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK STATE PARK ARAPAHOE COUNTY		S. MILLER		C. HOOPER		S. YAMAGIHARA	
NO.	DATE	DESCRIPTION	BY	CHK	APVD	NO.	DATE	DESCRIPTION	BY
DSGN		REVISION				DR			
<p>CH2MHILL</p> <p>STANDARD DETAILS</p> <p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p> <p>DATE: OCTOBER 2012</p> <p>PROJ: 240050</p> <p>DWG: C-14</p> <p>SHEET: 19</p>									



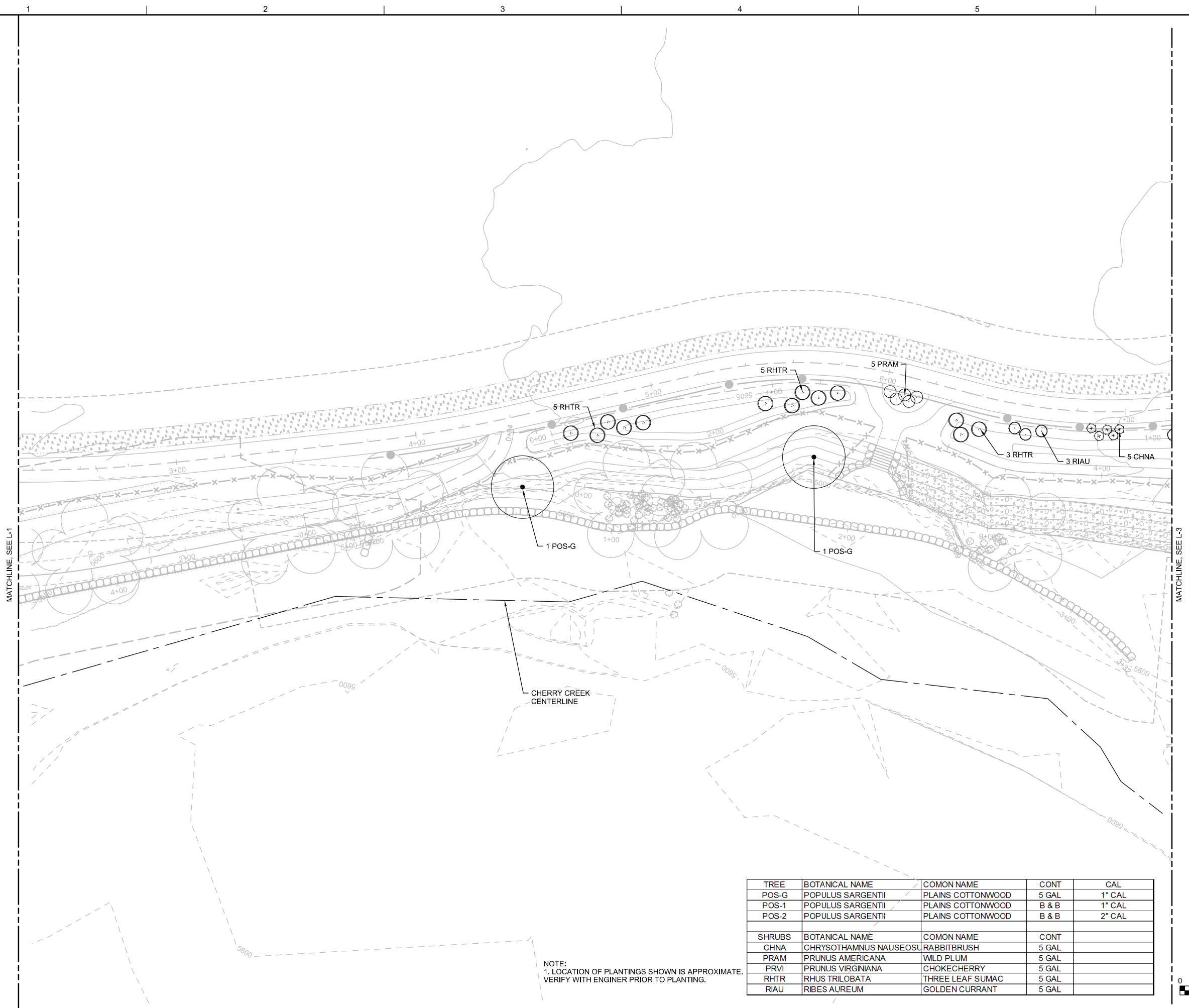
CHERRY CREEK CENTERLINE

NOTE:
NO ADDITIONAL LANDSCAPING FOR THE PHASE 1 PROJECT AREA.



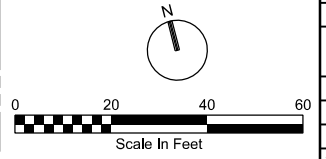
CH2MHILL		CHERRY CREEK BASIN WATER QUALITY AUTHORITY		NO. DATE		DESCRIPTION		APVR N	
		CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK CHERRY CREEK BASIN WATER QUALITY AUTHORITY		DGN		REVISION		BY APVD	
LANDSCAPE PLAN 1		A COOK		DR		CHK		S MILLER	
VERIFY SCALE		C HOOPER		APVD		S YANAGIHARA		BY APVD	
DATE		OCTOBER 2012		NO.		DATE		REVISION	
PROJ		240050		DGN		DATE		REVISION	
DWG		L-1		DGN		DATE		REVISION	
SHEET		20		DGN		DATE		REVISION	

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NOTE:
1. LOCATION OF PLANTINGS SHOWN IS APPROXIMATE.
VERIFY WITH ENGINEER PRIOR TO PLANTING.

TREE	BOTANICAL NAME	COMON NAME	CONT	CAL
POS-G	POPULUS SARGENTII	PLAINS COTTONWOOD	5 GAL	1" CAL
POS-1	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	1" CAL
POS-2	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	2" CAL
SHRUBS	BOTANICAL NAME	COMON NAME	CONT	
CHNA	CHRYSOTHAMNUS NAUSEOSU	RABBITBRUSH	5 GAL	
PRAM	PRUNUS AMERICANA	WILD PLUM	5 GAL	
PRVI	PRUNUS VIRGINIANA	CHOKECHERRY	5 GAL	
RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	5 GAL	
RIAU	RIBES AUREUM	GOLDEN CURRANT	5 GAL	



CH2MHILL

LANDSCAPE PLAN 2

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

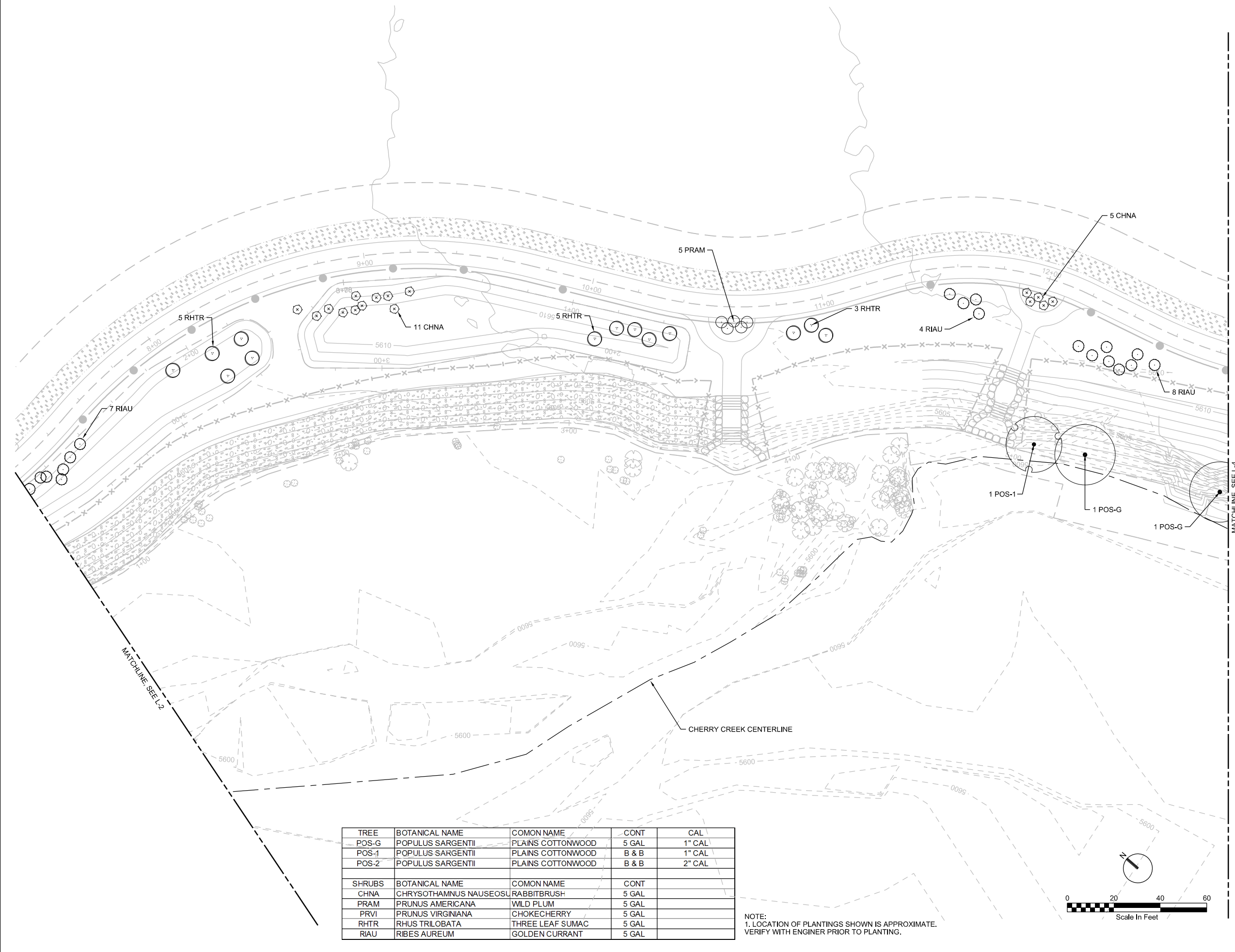
CHERRY CREEK STREAM RECLAMATION AT 12-MILE PARK

CHERRY CREEK BASIN WATER QUALITY AUTHORITY

NO	DATE	DESCRIPTION	APVR	N
			BY	APVD

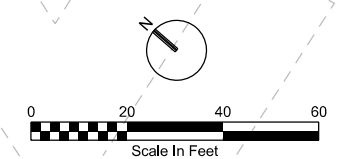
DR	CHK	APVD
A COOK	S MILLER	S YANAGIHARA
C HOOPER		

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TREE	BOTANICAL NAME	COMON NAME	CONT	CAL
POS-G	POPULUS SARGENTII	PLAINS COTTONWOOD	5 GAL	1" CAL
POS-1	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	1" CAL
POS-2	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	2" CAL
SHRUBS	BOTANICAL NAME	COMON NAME	CONT	
CHNA	CHRYSOTHAMNUS NAUSEOSU	RABBITBRUSH	5 GAL	
PRAM	PRUNUS AMERICANA	WILD PLUM	5 GAL	
PRVI	PRUNUS VIRGINIANA	CHOKECHERRY	5 GAL	
RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	5 GAL	
RIAU	RIBES AUREUM	GOLDEN CURRANT	5 GAL	

NOTE:
1. LOCATION OF PLANTINGS SHOWN IS APPROXIMATE.
VERIFY WITH ENGINEER PRIOR TO PLANTING.



CH2MHILL

LANDSCAPE PLAN 3

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

NO. DATE
NO. DATE
DSGN

DESCRIPTION
REVISION
CHK

APVR N
BY APVD

A COOK

S MILLER

C HOOPER

S YANAGIHARA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE

PROJ

DWG

SHEET

10/2012

240050

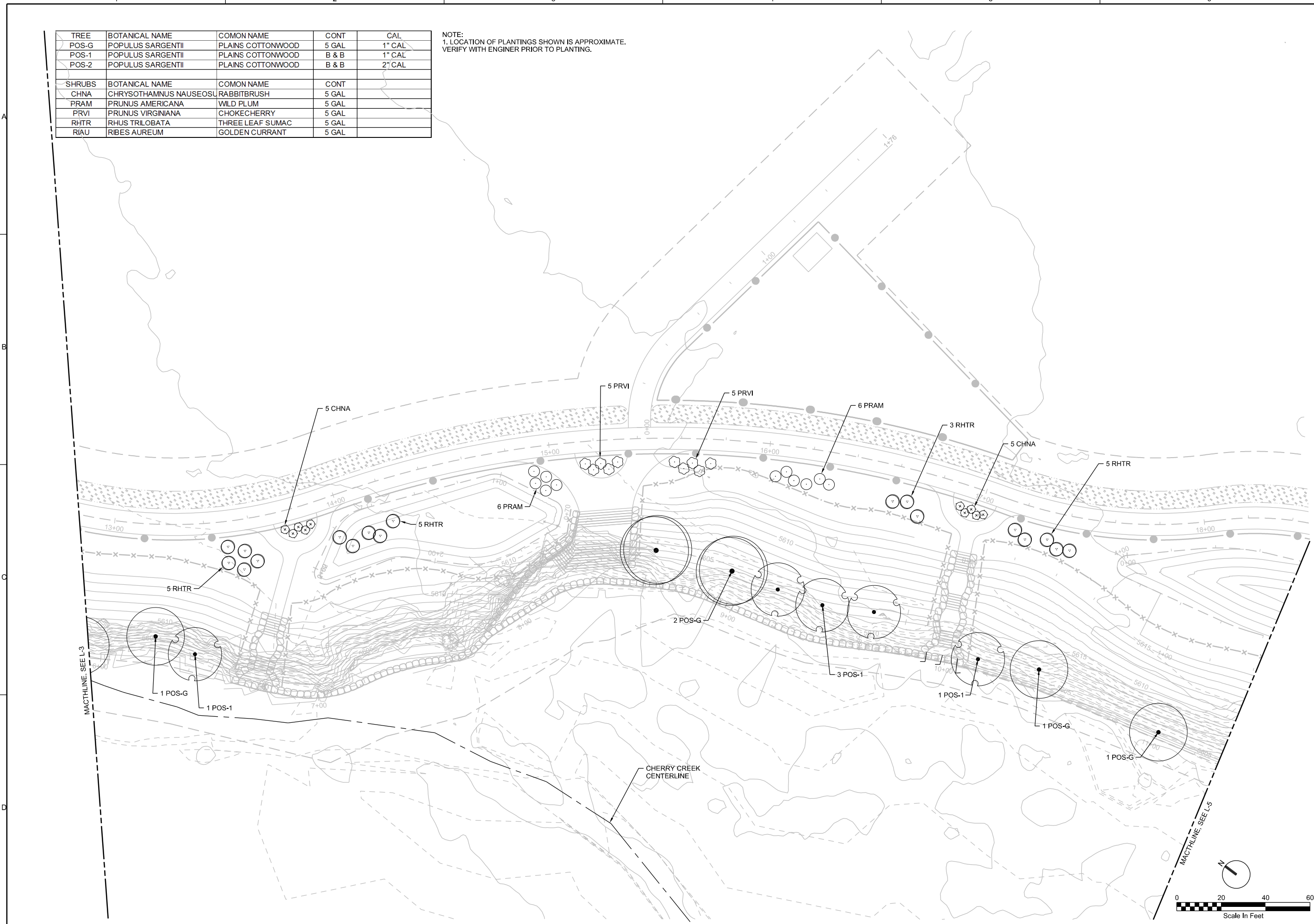
L-3

22

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TREE	BOTANICAL NAME	COMON NAME	CONT	CAL
POS-G	POPULUS SARGENTII	PLAINS COTTONWOOD	5 GAL	1" CAL
POS-1	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	1" CAL
POS-2	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	2" CAL
SHRUBS	BOTANICAL NAME	COMON NAME	CONT	
CHNA	CHRYSOTHAMNUS NAUSEOSI	RABBITBRUSH	5 GAL	
PRAM	PRUNUS AMERICANA	WILD PLUM	5 GAL	
PRVI	PRUNUS VIRGINIANA	CHOKECHERRY	5 GAL	
RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	5 GAL	
RIAU	RIBES AUREUM	GOLDEN CURRANT	5 GAL	

NOTE:
1. LOCATION OF PLANTINGS SHOWN IS APPROXIMATE.
VERIFY WITH ENGINEER PRIOR TO PLANTING.



CH2MHILL

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

LANDSCAPE PLAN 4

NO	DATE	DESCRIPTION	APVR	
			BY	N
DSGN		REVISION	CHK	APVD
			DR	APVD
			A COOK	S MILLER
			C HOOPER	S YANAGIHARA

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE: OCTOBER 2012

PROJ: 240050

DWG: L-4

SHEET: 23

FILENAME: 12P2-005-L-004.dgn

PLOT DATE: 2012/10/29

PLOT TIME: 1:02:56 PM

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TREE	BOTANICAL NAME	COMON NAME	CONT	CAL
POS-G	POPULUS SARGENTII	PLAINS COTTONWOOD	5 GAL	1" CAL
POS-1	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	1" CAL
POS-2	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	2" CAL
SHRUBS	BOTANICAL NAME	COMON NAME	CONT	
CHNA	CHRYSOTHAMNUS NAUSEOSI	RABBITBRUSH	5 GAL	
PRAM	PRUNUS AMERICANA	WILD PLUM	5 GAL	
PRVI	PRUNUS VIRGINIANA	CHOKECHERRY	5 GAL	
RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	5 GAL	
RIAU	RIBES AUREUM	GOLDEN CURRANT	5 GAL	

NOTE:
1. LOCATION OF PLANTINGS SHOWN IS APPROXIMATE.
VERIFY WITH ENGINEER PRIOR TO PLANTING.



CH2MHILL

LANDSCAPE PLAN 5

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

NO	DATE	DESCRIPTION	BY	APVD	CHK	DR	REVISION	
							NO	DATE

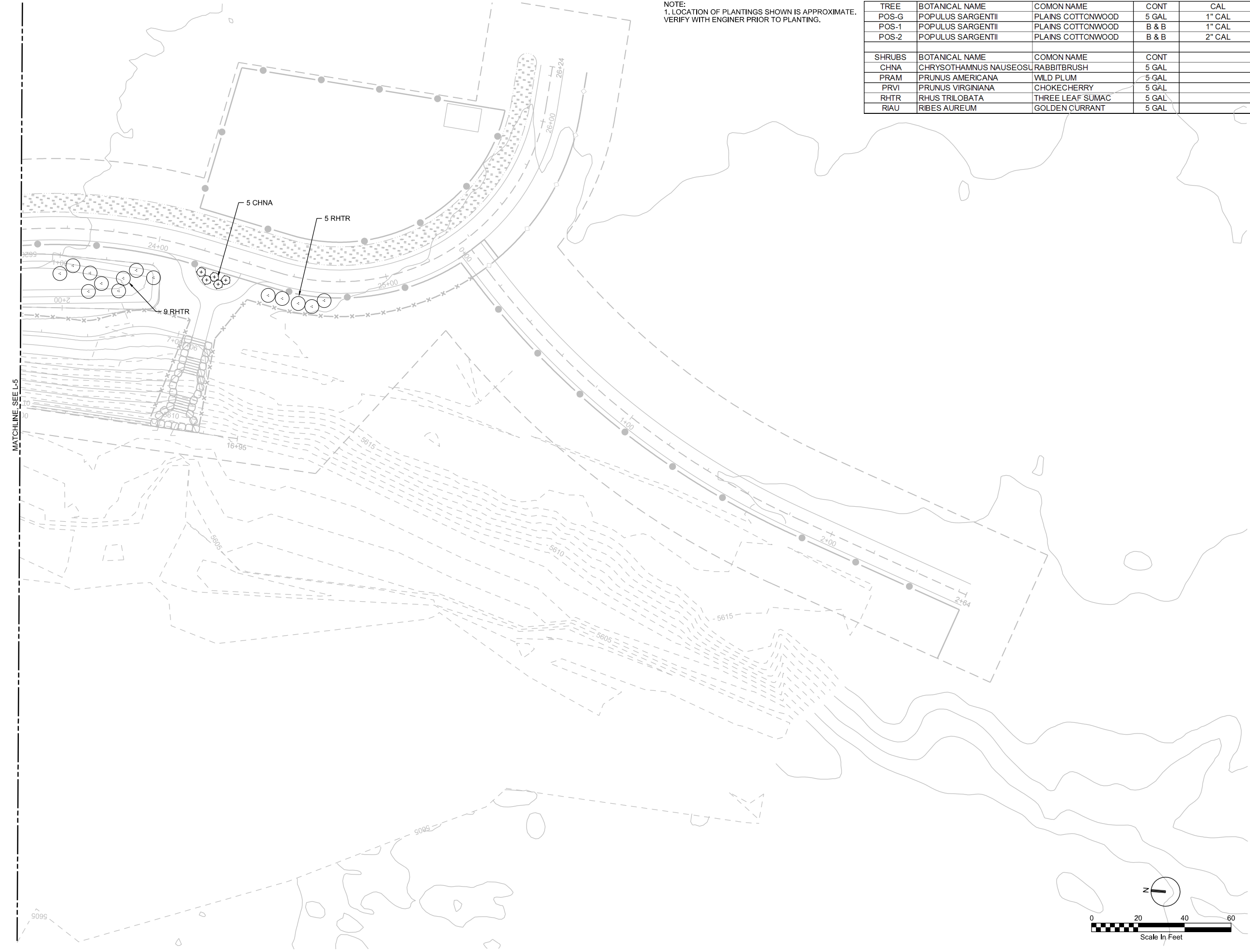
S. YAMAGIHARA
C. HOOPER
S. MILLER
A. COOK

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	OCTOBER 2012
PROJ	240050
DWG	L-5
SHEET	24

1 2 3 4 5 6

NOTE:
1. LOCATION OF PLANTINGS SHOWN IS APPROXIMATE.
VERIFY WITH ENGINEER PRIOR TO PLANTING.

TREE	BOTANICAL NAME	COMON NAME	CONT	CAL
POS-G	POPULUS SARGENTII	PLAINS COTTONWOOD	5 GAL	1" CAL
POS-1	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	1" CAL
POS-2	POPULUS SARGENTII	PLAINS COTTONWOOD	B & B	2" CAL
SHRUBS	BOTANICAL NAME	COMON NAME	CONT	
CHNA	CHRYSOTHAMNUS NAUSEOSU	RABBITBRUSH	5 GAL	
PRAM	PRUNUS AMERICANA	WILD PLUM	5 GAL	
PRVI	PRUNUS VIRGINIANA	CHOKECHERRY	5 GAL	
RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	5 GAL	
RIAU	RIBES AUREUM	GOLDEN CURRANT	5 GAL	



NO	DATE	DESCRIPTION	APVR	N
DSGN	NO. DATE	REVISION	BY	APVD
		CHK	APVD	
		DR		

CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CHERRY CREEK STREAM RECLAMATION
AT 12-MILE PARK
CHERRY CREEK BASIN
WATER QUALITY AUTHORITY

CH2MHILL

LANDSCAPE PLAN 6

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	OCTOBER 2012
PROJ	240050
DWG	L-6
SHEET	25

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