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COLORADO
 DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on March 29, 2016

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX , WILL BE ATTACHED TO THE PLANS.

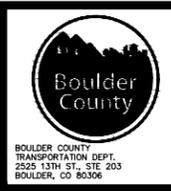


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CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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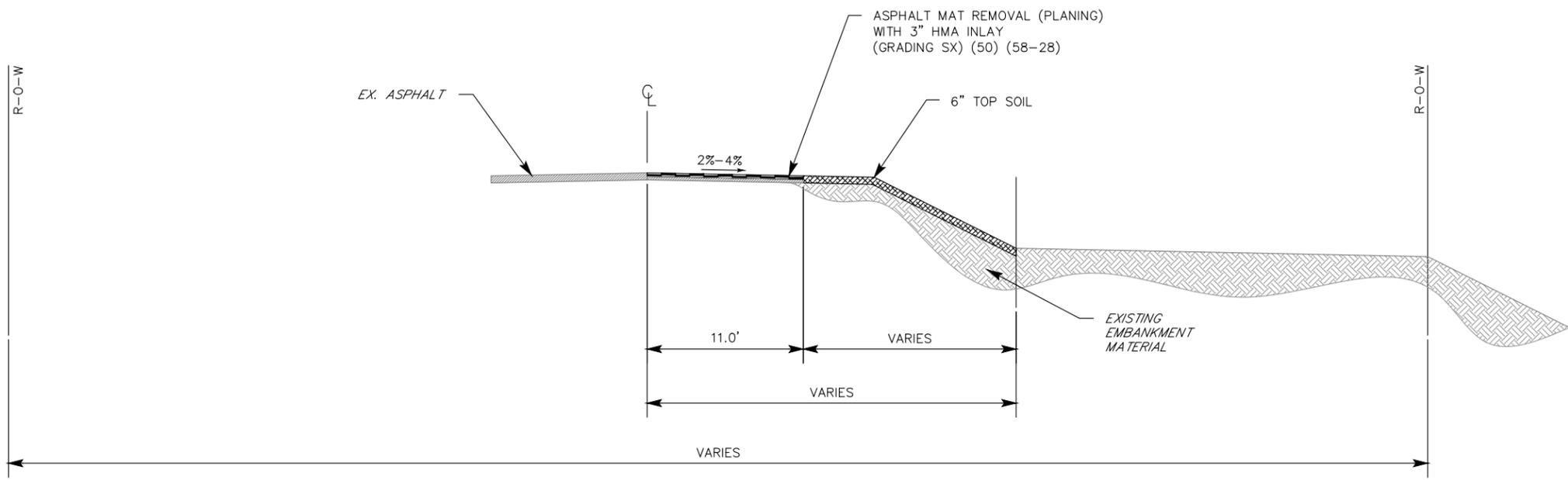
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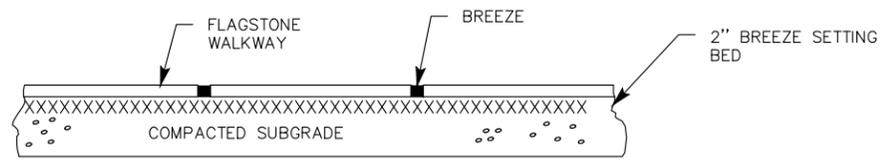
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REVISED: TBD
VOID:

STANDARD PLAN LIST	
DESIGNER:	STRUCTURE NUMBERS:
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE
PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP112C13-74030
SHEET NUMBER: 2



PROPOSED TYPICAL ROAD SECTION
SCALE: 1"=10'



TYPICAL SECTION FOR FLAGSTONE WALKWAY

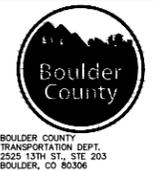


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CALL UTILITY NOTIFICATION CENTER OF COLORADO
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INDEX OF REVISIONS	
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NO. REVISIONS: 0
REVISED: TBD
VOID:

TYPICAL SECTION	
DESIGNER:	STRUCTURE NUMBERS
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE
PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP12C13-74030
SHEET NUMBER: 3

General Drawing Notes

- ONLY CONSTRUCTION PLAN SETS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF COLORADO ARE TO BE USED FOR CONSTRUCTION. THESE PLANS ARE INTENDED TO BE USED AS A COMPLETE SET AND ARE STAMPED AND CERTIFIED TO AS SUCH. ALL BUILDERS, CONTRACTORS AND SUB-CONTRACTORS ARE REQUIRED TO HAVE COMPLETE CONSTRUCTION PLAN SETS PRESENT AT THE JOB SITE DURING CONSTRUCTION.
- WHEN CONFLICTING, INCONSISTENT OR INCORRECT INFORMATION IS FOUND IN THIS CONSTRUCTION PLAN SET BY ANY PARTY, SAID PARTY IS REQUIRED TO CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR CLARIFICATION AS TO WHICH INFORMATION IS CORRECT. NEW INFORMATION MAY BE GIVEN AT THE DISCRETION OF THE DESIGN ENGINEER.
- THE CERTIFYING ENGINEER MUST APPROVE ANY CHANGES, MODIFICATION OR DEVIATION FROM THE ORIGINAL CERTIFIED DESIGN BY ANY PERSON, PERSONS, GROUP, ORGANIZATION OR AGENCY IN WRITING.
- ANY PARTY WHICH FINDS ANY SURVEY INFORMATION THAT CONFLICTS WITH DESIGN INFORMATION IN THE CONSTRUCTION PLAN SET OR BOULDER COUNTY MULTIMODAL TRANSPORTATION STANDARDS IS REQUIRED TO CONTACT THE DESIGN ENGINEER AND THE SURVEYOR FOR CLARIFICATION OF THE CORRECT INFORMATION.
- ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND WITH THE STATE OF COLORADO DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS". CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE EXISTENCE AND APPROXIMATE LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES OR STRUCTURES EXCEPT AS SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITIES OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK ON EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES. PURSUANT TO C.R.S. SEC. 9-1.5-103, ALL UNDERGROUND UTILITIES MUST BE FIELD LOCATED BY THE APPROPRIATE AGENCY OR UTILITY COMPANY PRIOR TO ANY EXCAVATION; CONTRACTOR TO CALL U.N.C.C. AT 811.
- SCALED MEASUREMENTS ARE APPROXIMATE DIMENSIONS AND SHOULD NOT BE USED FOR CONSTRUCTION, BID OR REVIEW.

General Construction Notes

- ALL BUILDERS, CONTRACTORS AND SUBCONTRACTORS SHALL CONSTRUCT ALL IMPROVEMENTS IN ACCORDANCE WITH COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2011, OR SUBSEQUENT REVISION, THE CDOT STANDARD PLANS DATED JULY, 2012, BOULDER COUNTY MULTIMODAL TRANSPORTATION STANDARDS DATED JULY 2012, AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATION INCLUDED HEREIN.
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED BY THE CONTRACTOR AT THEIR EXPENSE PRIOR TO BEGINNING CONSTRUCTION. FLOOD PLAIN DEVELOPMENT PERMIT HAS BEEN OBTAINED BY THE COUNTY.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULES.
- THE CONTRACTOR SHALL HAVE ON THE JOB SITE AT ALL TIMES:
 - ONE (1) COPY OF THE PLANS
 - ONE (1) COPY OF THE CONSTRUCTION SPECIFICATIONS
 - ONE (1) COPY OF ANY PERMITS OR EXTENSION AGREEMENTS WHICH ARE NEEDED FOR THE PROJECT
 - ONE (1) COPY OF THE UP TO DATE STORMWATER MANAGEMENT PLAN.
- CONTRACTOR SHALL PROTECT ALL SURVEY AND RIGHT-OF-WAY MONUMENTATION DURING THE CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONSTRUCTION SHALL BE RE-SET BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNER MONUMENTS AND REPLACING ALL SURVEY MONUMENTS (PINS) ELIMINATED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE PROJECT.
- LIMITS OF CONSTRUCTION SHALL BE CONFINED TO PUBLIC RIGHT-OF-WAYS, TEMPORARY OR PERMANENT CONSTRUCTION EASEMENTS, OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND OR TOES OF SLOPES AS SHOWN ON THE PLANS AND CROSS-SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT CONDUCT ANY OPERATIONS OR STAGING OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY AND COORDINATE THE WORK WITH ALL ADJACENT PROPERTY OWNERS. CONTRACTOR SHALL PROVIDE SAFE, LOCAL ACCESS FOR ALL ADJACENT PROPERTY OWNERS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BENCHMARK AND/OR RELOCATING BENCHMARK, IF DAMAGED. BENCHMARK SHALL BE RELOCATED TO ORIGINAL ELEVATION AND AT THE CONTRACTOR'S EXPENSE.
- REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS, IRRIGATION, OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ASSOCIATED COSTS FOR THE IMPROVEMENTS SHALL BE PAID FOR BY THE CONTRACTOR, AT NO EXPENSE TO THE PROJECT.
- ALL CONSTRUCTION ACTIVITIES INCLUDING DEWATERING MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY." FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF HEALTH, WATER QUALITY CONTROL DIVISION, WQCD-PE-B2, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO 80222-1530. ATTENTION: PERMITS AND ENFORCEMENT SECTION. PHONE (303) 692-3500.

- THE CONTRACTOR SHALL NOTIFY THE OWNER TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL TEMPORARY FENCING PROTECTION AROUND EXISTING TREES AND PLANTS AT THEIR DRIPLINES IN THE PROJECT AREAS.
- ALL STATIONING IS BASED ON CENTERLINE OF STREET UNLESS OTHERWISE NOTED ON PLANS.
- WHERE CUTTING OF ASPHALT PAVEMENT IS REQUIRED THE CUTTING SHALL BE DONE BY SAW OR WHEEL CUT TO A NEAT WORK LINE AS APPROVED BY THE ENGINEER. PAYMENT FOR CUTTING AND REMOVAL SHALL BE INCLUDED IN THE WORK.
- FOR PLANS QUANTITIES OF PAVEMENT STRUCTURE MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
 - HOT MIX ASPHALT 150 LBS/CF
- APPLE VALLEY ROAD SHALL BE KEPT FREE OF MUD AND CONSTRUCTION DEBRIS BY THE END OF EACH WORKING DAY.
- CONSTRUCTION INSPECTION AND MATERIAL TESTING WILL BE PROVIDED BY BOULDER COUNTY.
- THE CONTRACTOR SHALL REQUEST INSPECTION OF THE SUBGRADE AND BASE COURSE AT LEAST ONE DAY PRIOR TO INSTALLING THE INITIAL LAYER OF ASPHALT OR CONCRETE.
- SWEEPING OF DIRT AND GRAVEL FROM THE EXISTING ASPHALT SURFACE PRIOR TO PLACEMENT OF HOT MIX ASPHALT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK AND SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED TO IMPROVE BOND AT THE FOLLOWING LOCATION:
 - PRIOR TO PLACEMENT OF NEW ASPHALT OVER EXISTING ASPHALT
 - ALONG THE FACE OF ALL CURBS, GUTTERS, MANHOLES, EXISTING PAVEMENT, AND ANY OTHER SURFACE AGAINST WHICH NEW ASPHALT WILL BE PLACED
 - BETWEEN PAVEMENT COURSES

TACK COAT WILL NOT BE REQUIRED FOR NEW PAVEMENT WHICH IS PLACED ON AN AGGREGATE BASE COURSE
- UNLESS OTHERWISE SPECIFIED, REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL ITEMS SHALL BE DISPOSED OF OR RECYCLED OUTSIDE OF THE PROJECT LIMITS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- EXISTING SITE CONDITIONS AND TOPOGRAPHY IS BASED ON SURVEY PREPARED BY FLATIRONS, INC. DATED MARCH 4, 2016, PROJECT NO. 16-100,549.

Utility Notes

- UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO PARAGRAPH 105.11 OF THE STANDARD SPECIFICATION CONCERNING UTILITIES. FOR UTILITY LOCATES, THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 AT LEAST TWO (2) WORKING DAYS (NOT INCLUDING THE INITIAL DAY OF CONTACT) PRIOR TO DIGGING, GRADING, OR EXCAVATING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCY. ALL CONFLICTING UTILITIES SHALL BE EXPOSED BY CONTRACTOR PRIOR TO CONSTRUCTION AND INSPECTED BY THE ENGINEER TO VERIFY CONFORMANCE WITH THE PLANS. THIS PARTICULARLY APPLIES TO UNDERGROUND WORK TO BE COMPLETED ON THIS PROJECT BY THE CONTRACTOR. RELOCATION OF EXISTING UTILITIES IS NOT PART OF THIS CONTRACT EXCEPT AS SHOWN ON THESE DRAWINGS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION MUST BE APPROVED BY BOULDER COUNTY PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH BOULDER COUNTY, AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS, ADJUSTMENTS, EXTENSIONS, AND RE-ARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING UTILITY WORK IN A TIMELY FASHION AND WITH MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING IN ADVANCE ALL PARTIES AFFECTED BY ANY DISRUPTION IN SERVICES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONTACTING ANY AFFECTED UTILITY COMPANIES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES (POWER POLES, MANHOLES, UTILITY VAULTS, IRRIGATION DITCH FACILITIES, ETC.) IN THE GENERAL AREA OF CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OPERATION AT NO COST TO THE PROJECT.

Utility Contact List

THE FOLLOWING IS A LIST OF KNOWN UTILITIES WITHIN IN THE PROJECT AREA AND THE RESPECTIVE CONTACT. ADDITIONAL UTILITIES MAY BE ENCOUNTERED WITH THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK WITHIN ALL UTILITY COMPANIES WITHIN THE PROJECT AREA.

AGENCY	CONTACT	PHONE
CENTURYLINK	SAMUEL BANULIS	970-395-4838
XCEL ENERGY - ELECTRIC	TANYA MACBAIN	303-245-2281
XCEL ENERGY - GAS	JASON GILLAND	303-245-2279

CALL UTILITY NOTIFICATION CENTER OF COLORADO



CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



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ACAD VER. 2016	SCALE: SHOWN UNITS: FEET

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BOULDER COUNTY TRANSPORTATION DEPT. 2525 13TH ST., STE 203 BOULDER, CO 80306



Flatirons, Inc.
Surveying, Engineering & Geomatics

FINAL

NO. REVISIONS: 0
REVISED: TBD
VOID:

GENERAL NOTES (1)

DESIGNER:	STRUCTURE NUMBERS:
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE

PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP12C13-74030
SHEET NUMBER:	4

Earthwork Notes

1. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITY.
2. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS.
3. ANY GRADING OF DISTURBED AREAS SHALL RECEIVE SUFFICIENT EROSION PROTECTION TO INHIBIT WIND AND WATER EROSION. UNLESS OTHERWISE NOTED.
4. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATION SHALL BE ORDERED BY THE ENGINEER AND WILL NOT BE PAID FOR SEPARATELY.
5. PRIOR TO MOISTURE DENSITY CONTROL, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL AND SOFT OR DISTURBED SOILS. DEPTH OF MOISTURE – DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 - FULL DEPTH OF ALL EMBANKMENTS
 - BASES OF CUTS AND FILL – 6 INCHES.
6. SUBGRADE SHALL BE COMPACTED AND SHAPED PER SPECIFICATIONS PRIOR TO APPLICATION OF BASE MATERIAL.
7. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUT AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE SITE GRADING IN A MANNER CONSISTENT WITH PLANS REGARDING SITE DRAINAGE.
9. DEPTH OF TOPSOIL REMOVAL SHALL BE AS DIRECTED BY ENGINEER. FINAL GRADES SHOWN REFLECT A MINIMUM OF SIX (6) INCHES OF TOPSOIL BEING PLACED ON ALL DISTURBED AREAS NOT SURFACED. TOPSOIL TO BE USED IS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
10. ALL BORROW MATERIAL IMPORTED FOR USE ON THIS PROJECT IS SUBJECT TO REVIEW AND APPROVAL BY ENGINEER FOR BOULDER COUNTY PRIOR TO ITS INCORPORATION INTO THE PROJECT.
11. OFF-SITE DISPOSAL OF EXCESS MATERIAL OR THE ON-SITE IMPORTING OF FILL MATERIALS, REGARDLESS OF PROPERTY OWNERSHIP, MUST BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND COUNTY ENVIRONMENTAL REGULATIONS.
12. ANY EXCESS MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE AT NO ADDITIONAL COST TO THE PROJECT.

Drainage/Storm Notes

1. THE CONTRACTOR IS REQUIRED TO KEEP ALL EXISTING DRAINAGE AND IRRIGATION STRUCTURES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE STRUCTURES AT ALL TIMES DURING CONSTRUCTION.

Signing, Striping, Traffic Control Notes

1. CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE 2009 MANUAL (OR CURRENT EDITION) ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CDOT STANDARD S-630-1. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A METHOD OF HANDLING TRAFFIC (MHT) TO THE ENGINEER FOR APPROVAL FOR EACH APPLICABLE PHASE AND ONE WEEK IN ADVANCE OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING THE CONSTRUCTION ZONE TRAFFIC CONTROL ZONES.
2. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY SIGNS THAT ARE DAMAGED OR LOST DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE PROJECT.
3. ANY NEW SIGNS SHALL HAVE A MINIMUM THICKNESS OF 0.100".
4. SIGN POSTS SHALL BE 2" X 2" X 10' (14 GAUGE) GALVANIZED PERFORATED SQUARE STEEL TUBING. SIGN POST BASES SHALL BE 2 1/4" X 2 1/4" (12 GAUGE, 3 FEET IN LENGTH) GALVANIZED SQUARE STEEL TUBING. BASES SHALL BE INCLUDED IN THE COST OF THE SIGN POSTS. TOP OF THE BASE SHALL BE 3"(+/-) ABOVE THE FINISHED GRADE.
5. SIGN POSTS LOCATED IN CONCRETE MEDIANS, SIDEWALKS OR ISLANDS SHALL HAVE A 6" PVC COLLAR IN PLACE PRIOR TO THE POURING OF THE CONCRETE.
6. SIGN POST LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ROAD MAINTENANCE SIGN SHOP REPRESENTATIVE PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL VERIFY STRIPING LAYOUT WITH ENGINEER TWO WORKING DAYS PRIOR TO STRIPING.
8. ALL FINAL PAVEMENT STRIPING SHALL BE EPOXY PER CDOT STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL MAINTAIN PAVEMENT MARKINGS ON THE PROJECT AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
10. CONTRACTOR SHALL USE THE PRESENT ROADWAY DURING CONSTRUCTION AND MAINTAIN TWO LANES OF TRAFFIC DURING ALL NON-WORKING HOURS. ONLY ONE LANE MAY BE CLOSED TO TRAFFIC AT ANY TIME, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
11. SPEED LIMITS SHALL BE REDUCED TO 25 MPH WHEN BIKE SHOULDERS ARE CLOSED. REQUEST FOR SPEED REDUCTION SHALL BE MADE TO BOULDER COUNTY ONE WEEK (WORKING DAYS) PRIOR TO THE START OF WORK. SIGNING SUCH AS "BIKES MERGE WITH TRAFFIC", "SPEED LIMIT 25 MPH" , AND "FINES DOUBLED IN CONSTRUCTION ZONE" SHALL BE INCLUDED IN THE COST OF THE WORK.
12. ANY TRAFFIC CONTROL MEASURES THAT ARE IN PLACE DURING CONSTRUCTION, SHALL BE ADJUSTED TO ALLOW HOMEOWNERS DAILY DRIVEWAY ACCESS.

Environmental Notes

1. NOXIOUS WEEDS: NOXIOUS WEEDS MAY PERSIST ON OR ADJACENT TO THE PROJECT LOCATION. ALL WEED SPECIES ON THE STATE WEED LAW LIST A AND B SHALL BE ADDRESSED ACCORDING TO STATUTE. INFORMATION REGARDING NOXIOUS WEEDS IS AVAILABLE THROUGH THE BOULDER COUNTY NOXIOUS WEED MANAGEMENT PLAN.
2. ENVIRONMENTAL WALK THROUGH: ONCE CONSTRUCTION HAS BEEN COMPLETED THE BOULDER COUNTY PROJECT MANAGER, AND THE CONTRACTOR WILL CONDUCT A WALK THROUGH OF THE PROJECT SITE. THE PURPOSE OF THE WALK THROUGH IS TO IDENTIFY ANY AREAS WHERE BMPS NEED TO BE REMOVED OR MAINTAINED, AND IDENTIFICATION OF RESPONSIBLE PARTY.
3. WATER QUALITY: IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN EXISTING BMPS AND ENSURE THEIR COMPLETE REMOVAL ONCE 70% OF PRE-EXISTING VEGETATION HAS BEEN RE-ESTABLISHED.
4. PERMITS: PROJECT ACTIVITIES ARE (1.49 AC) MORE THAN ONE ACRE OF EARTH DISTURBANCE. A COLORADO DEPARTMENT OF PUBLIC HEALTH AND THE ENVIRONMENT (CDPHE) COLORADO DISCHARGE PERMIT SYSTEM (CDPS) PERMIT IS REQUIRED. A STORM WATER MANAGEMENT PLAN (SWMP) IS REQUIRED. A STORMWATER MANAGEMENT PLAN IS PROVIDED IN THIS PLAN SET FOR INFORMATION ONLY. BMPS SHALL BE INSTALLED PER CDOT AND BOULDER COUNTY STANDARDS.
5. THE MIGRATORY BIRD TREATY ACT (MBTA): PROTECTS MIGRATORY BIRDS AND THEIR NESTS AND EGGS. FOR PROJECTS THAT COULD POTENTIALLY HAVE AN IMPACT, THE FOLLOWING CONDITIONS APPLY:

CLEARING/GRUBBING ACTIVITIES
 CLEARING AND GRUBBING OF VEGETATION THAT MAY DISTURB GROUND NESTING BIRDS SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IF WORK ACTIVITIES ARE PLANNED BETWEEN APRIL 1 AND AUGUST 31, VEGETATION SHALL BE REMOVED AND/OR TRIMMED TO A HEIGHT OF SIX (6) INCHES OR LESS PRIOR TO APRIL 1. ONCE VEGETATION HAS BEEN REMOVED AND/OR TRIMMED, APPROPRIATE MEASURES, I.E. REPEATED MOWING/TRIMMING, SHALL BE IMPLEMENTED TO ASSURE VEGETATION DOES NOT GROW MORE THAN SIX (6) INCHES. FAILURE TO MAINTAIN VEGETATION HEIGHT OF SIX (6) INCHES OR LESS MAY POSTPONE PROJECT CONSTRUCTION.
6. 404 PERMIT: THE PROPOSED WORK AS SHOWN ON THE PLANS HAS BEEN PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS UNDER SECTION 404 OF THE CLEAN WATER ACT. THE CONTRACTOR SHALL COMPLY WITH ALL SPECIAL AND GENERAL CONDITIONS ATTACHED TO THE PERMIT.

Erosion Control Notes

1. CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT AND EROSION CONTROL DEVICES INCLUDING SILT FENCING, SEDIMENT BASINS, AND STORM WATER TREATMENT BASINS BEFORE COMMENCING ANY LAND CLEARING ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE SILT FENCES THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL PERMANENT GROUND VEGETATION HAS BEEN ESTABLISHED TO THE SATISFACTION OF THE ENGINEER. FOLLOWING THE PLACEMENT OF SILT FENCES, SEDIMENT BASINS, AND STORM WATER TREATMENT BASINS, THE CONTRACTOR MAY BEGIN CLEARING AND GRUBBING OPERATIONS. THIS OPERATION DOES NOT INCLUDE TOPSOIL STRIPPING.
2. AT ALL TIMES DURING CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL SYSTEMS TO PREVENT DAMAGING FLOWS ON THE SITE AND IN THE AREAS BELOW. SILT FENCING MUST BE INSTALLED PRIOR TO ANY GRADING ACTIVITIES.
3. CONTRACTOR SHALL INSTALL SEDIMENT BASINS AND STORM WATER TREATMENT BASINS IMMEDIATELY AFTER CONSTRUCTING SILT FENCES.
 - A. SEDIMENTATION BASINS ARE TEMPORARY CONSTRUCTION FACILITIES AND SHALL BE REMOVED PRIOR TO REMOVAL OF THE SILT FENCES.
 - B. CONTRACTOR SHALL MAINTAIN SEDIMENT BASINS BY CLEANING THEM WHEN THEY BECOME HALF FULL WITH SEDIMENT.
 - C. STORM WATER TREATMENT BASINS ARE PERMANENT FACILITIES AND SHALL BE MAINTAINED BY CLEANING THEM WHEN THEY BECOME HALF FULL WITH SEDIMENT.
4. THE CONTRACTOR SHALL LIMIT TOPSOIL STRIPPING OPERATIONS WITHIN THE AREAS IN WHICH THEY ARE IMMEDIATELY WORKING.
5. THE CONTRACTOR SHALL ROUGHEN THE SURFACE OR PROVIDE EITHER TEMPORARY OR PERMANENT GROUND COVER WITHIN FOURTEEN (14) DAYS OF EXPOSING ANY AREA. THIS REQUIREMENT SHALL BE IMPOSED IF THE CONTRACTOR HAS AN AREA EXPOSED FOR FOURTEEN (14) DAYS OR MORE WITHOUT PERFORMING GRADING OPERATIONS WITHIN THE AREA.
6. ANY AND ALL FINES ASSOCIATED WITH DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS CAUSED BY THIS WORK SHALL BE PAID AT NO COST TO THIS PROJECT.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CDOT AND BOULDER COUNTY STANDARDS AND SPECIFICATIONS, AND PROJECT DRAWINGS. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE ABOVE, AS A MINIMUM STANDARD, AND SHALL REMOVE ANY SILT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITY. ADDITIONAL ON-SITE PROTECTION, IN ADDITION TO ABOVE, MUST BE PROVIDED TO PREVENT SILT FROM LEAVING THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED PER THE SWMP.
9. SHOULD WIND EROSION CONDITIONS EXIST AT ANY TIME DURING CONSTRUCTION, CONTRACTOR SHALL UTILIZE A WATER TRUCK AND OTHER APPROVED MEASURES FOR DUST CONTROL.
10. EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE UNTIL ALL PAVING AND PERMANENT LANDSCAPING IS COMPLETED AND SEEDING AREAS ARE ESTABLISHED.

11. ALL UNLANDSCAPED AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED TO STABILIZE ANY EXPOSED SOIL SURFACE AT NO COST TO THE PROJECT.
12. EROSION CONTROL BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER SEDIMENT BARRIER REMOVAL SHALL BE REMOVED FROM THE SITE OR DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDING.
13. WHERE PUBLIC STREETS ARE USED TO HAUL DIRT OR MATERIALS TO AND FROM THE SITE, THE CONTRACTOR/PERMITEE IS RESPONSIBLE FOR CLEANING THE PUBLIC STREETS. CLEANING OF PUBLIC STREETS SHALL BE DONE ON A DAILY BASIS OR MORE FREQUENTLY IF DIRECTED BY THE COUNTY.
14. ANY EARTH CHANGES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION AND SHOULD NOT EXCEED THE LIMITS OF ALLOWABLE EROSION.
15. ALL EARTH CHANGES SHALL BE DESIGNED, CONSTRUCTED AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST POSSIBLE PERIOD OF TIME.
16. SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE REMOVED FROM THE RUNOFF WATER BEFORE LEAVING THE SITE.
17. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH OR FROM THE EARTH CHANGE AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
18. TEMPORARY EROSION CONTROL FACILITIES SHALL BE REMOVED, AND EARTH CHANGE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO APPROVED PLANS AND SPECIFICATIONS.

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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

COMPUTER FILE INFORMATION

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DRAWING FILE NAME: 100549-NOTES SOQ SECTIONS.DWG	
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INDEX OF REVISIONS

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BOULDER COUNTY TRANSPORTATION DEPT. 2525 13TH ST., STE 203 BOULDER, CO 80306



Flatirons, Inc.
Surveying, Engineering & Geomatics

FINAL

NO. REVISIONS: 0
REVISED: TBD
VOID:

GENERAL NOTES (2)

DESIGNER:	STRUCTURE NUMBERS:
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE

PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP112C13-74030
SHEET NUMBER: 5



BY: JBLASINGAME FILE: 100549-NOTES_SOQ SECTIONS.DWG DATE: 8/4/2016 12:02 PM

BY:JBLASINGAME FILE:100549-NOTES_S0Q SECTIONS.DWG DATE:8/4/2016 12:02 PM

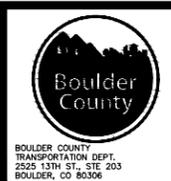
CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Bridge/Park		Roadway		Project Totals	
				Plan	As Const.	Plan	As Const.	TOTAL UNITS	As Const.
1	201-00000	Clearing & Grubbing	LS	0.30		0.70		1	
2	202-00240	Removal of Asphalt Mat (Planing)	SY			65		65	
3	203-00000	Unclassified Excavation	CY	4				4	
4	203-00060	Embankment Material (Complete in Place)	CY	30				30	
5	207-00205	Topsoil	CY	40		38		78	
6	208-00005	Erosion Log (Biodegradable)	LF	97		170		267	
7	208-00020	Silt Fence	LF	107				107	
8	208-00205	Erosion Control Supervisor	HR	90		90		180	
9	212-00006	Seeding (Native)	AC	0.03		0.05		0.08	
10	212-01201	Seeding Establishment	LS					1	
11	214-00100	Tree Retention and Protection	LS	1				1	
12	214-00700	Landscape Boulder	EA	4				4	
13	216-00042	Soil Retention Blanket (Biodegradable) (Coconut)	SY	118		236		354	
14	403-34621	Hot Mix Asphalt (Grading SX) (50) (PG 58-28)	TON			3		3	
38	408-01000	Hot Poured Joint and Crack Sealant	TON	0.25				0.25	
15	504-03411	Retaining Wall (Boulder)	SF	72				72	
16	504-08050	Stone Landscape Wall - 7"X5" Flagstone Retaining Wall Cap	LF	68				68	
17	506-00224	Riprap (24 Inch)	CY	16				16	
39	508-90001	Paint Existing Structure (Special)	LS	1				1	
40	508-90005	Stain Existing Structure (Special)	LS	1				1	
18	514-01020	Pedestrian Railing (Timber)	LS	1				1	
19	514-XXXX1	F1 - 3 1/8" X 24" Glulam Facia	EA	3				3	
20	514-XXXX2	R1 - 2 1/4" X 6" Glulam Pedestrian Rail	EA	3				3	
21	514-XXXX3	P1 - 3 1/8" X 6" Glulam Post	EA	6				6	
22	514-XXXX4	B1 - 2" X 2" R Sawn Ballister	EA	45				45	
23	514-XXXX5	OL1 - 5 1/8" X 24" Glulam Outlooker	EA	2				2	
41	606-00305	Guardrail Type 3 (Special)	LF	14				14	
42	606-02000	End Anchorage (Special)	EACH	2				2	
24	608-20000	Flagstone Walkway	SF	974				974	
25 / 44	608-20001	Flagstone Walkway (Reset)	SF	1,153				1,153	
26	608-20010	Flagstone Walkway Edging - 9"X4"	LF	179				179	
43	614-00012	Sign Panel (Class II)	SF	18				18	
44	614-00200	Steel Sign Post (U-2)	LF	20				20	
46	622-00048	Historical Sign Structure	LS	1				1	
27	625-00000	Construction Surveying	LS					1	
28	626-00000	Mobilization	LS					1	
29	627-00004	Epoxy Pavement Marking	GAL			1		1	
30	630-00000	Flagging	HOUR			200		200	
31	630-00007	Traffic Control Inspection	DAY	7		7		14	
32	630-00012	Traffic Control Management	DAY	16		16		32	
33	630-80336	Barricade (Type 3 M-B) (Temporary)	EACH	6				6	
34	630-80342	Construction Traffic Sign (Panel Size B)	EACH	2		4		6	
35	630-80355	Portable Message Sign Panel	EACH	1				1	
36	630-80360	Drum Channelizing Device	EACH			10		10	



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811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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NO. REVISIONS: 0	
REVISED: TBD	
VOID:	

SUMMARY OF QUANTITIES	
DESIGNER:	STRUCTURE NUMBERS
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP12C13-74030
SHEET NUMBER:	6

CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Bridge/Park	
				Plan	As Const.
1	201-00000	Clearing & Grubbing	LS	0.30	
3	203-00000	Unclassified Excavation	CY	4	
4	203-00060	Embankment Material (Complete in Place)	CY	30	
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42	606-02000	End Anchorage (Special)	EACH	2	
24	608-20000	Flagstone Walkway	SF	974	
25 / 44	608-20001	Flagstone Walkway (Reset)	SF	1,153	
26	608-20010	Flagstone Walkway Edging - 9"x4"	LF	179	
43	614-00012	Sign Panel (Class II)	SF	18	
44	614-00200	Steel Sign Post (U-2)	LF	20	
46	622-00048	Historical Sign Structure	LS	1	

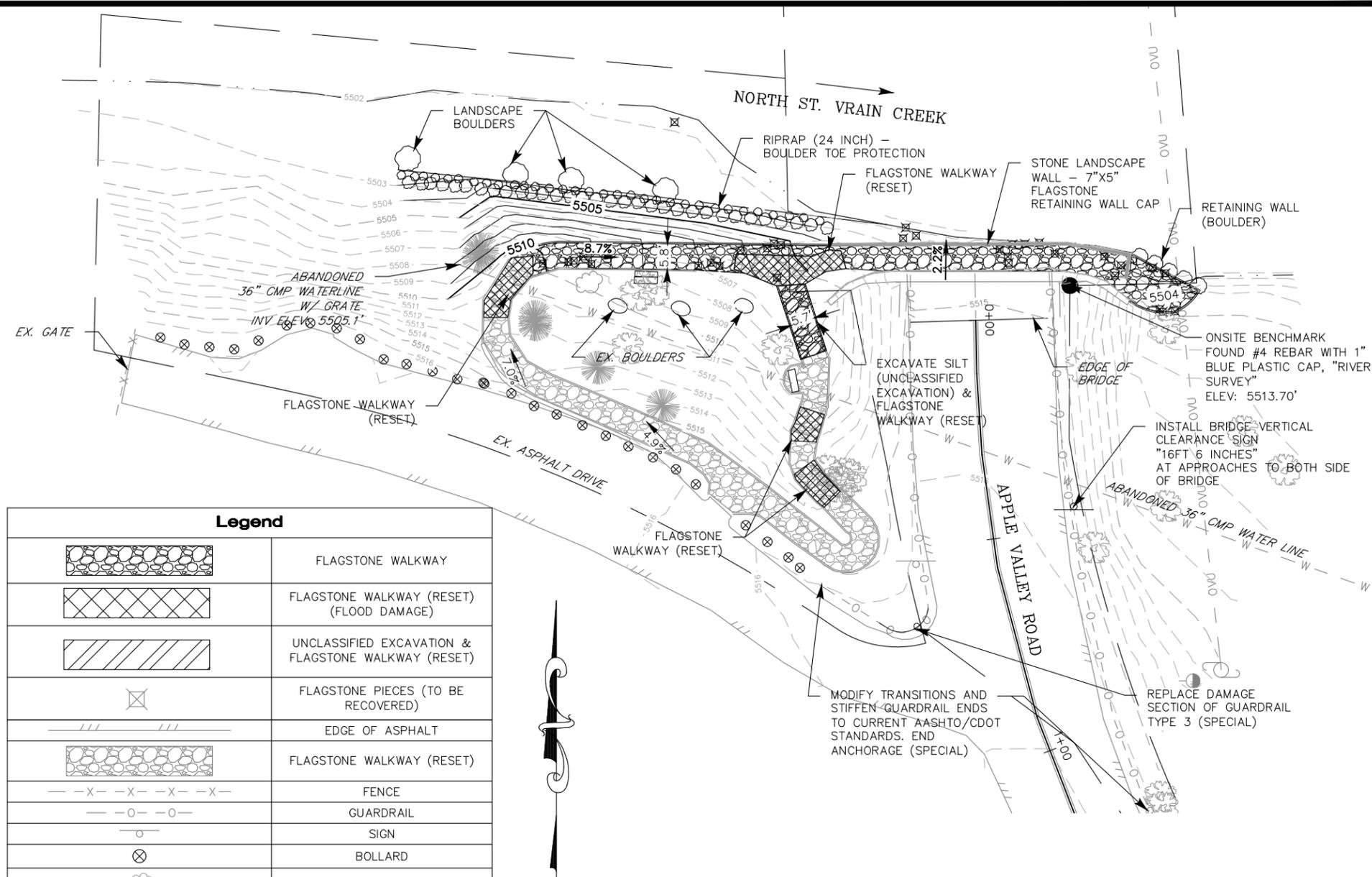
NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL DEDICATION MONUMENT. LOCATION AND SPECIFICATIONS TO BE SPECIFIED BY COUNTY.
- CONTRACTOR SHALL REMOVE ALL EXISTING FLAGSTONE. FLAGSTONE SHALL BE REMOVED IN SUCH A MANNER THAT ALLOWS FOR THE FLAGSTONE TO BE RESET IN THE SAME LOCATION AS BEFORE REMOVAL.
- SEE SHEET 18 FOR PROPERTY OWNERSHIP
- SEE SHEET 8 FOR FLAGSTONE DETAIL AND FURTHER INFORMATION.
- ALL EXISTING TREES SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

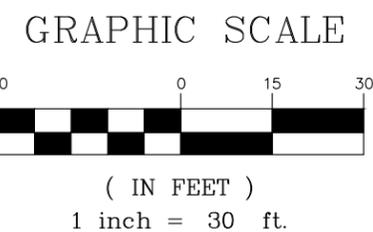
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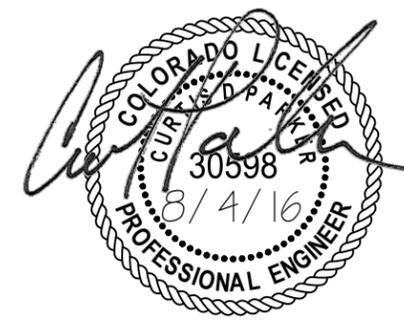


Legend	
	FLAGSTONE WALKWAY
	FLAGSTONE WALKWAY (RESET) (FLOOD DAMAGE)
	UNCLASSIFIED EXCAVATION & FLAGSTONE WALKWAY (RESET)
	FLAGSTONE PIECES (TO BE RECOVERED)
	EDGE OF ASPHALT
	FLAGSTONE WALKWAY (RESET)
	FENCE
	GUARDRAIL
	SIGN
	BOLLARD
	SHRUB/BUSH
	TREE (DECIDUOUS)
	TREE (CONIFEROUS)
	WATER LINE
	OVERHEAD UTILITY LINE
	SIGN
	EXISTING 5-FOOT CONTOUR
	EXISTING 1-FOOT CONTOUR
	PROPOSED 5-FOOT CONTOUR
	PROPOSED 1-FOOT CONTOUR
	RIGHT-OF-WAY / ADJACENT PROPERTY LINE



EARTHWORK NOTES

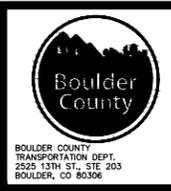
- EARTHWORK QUANTITIES ARE IN PLACE MEASUREMENT. NO SHRINK OR SWELL FACTORS WERE APPLIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INTERPRET THE SOIL CONDITIONS AND APPLY COMPACTION SWELL FACTORS.
- TOP SOIL SHALL BE IMPORTED MATERIAL.



BY:JBLASINGAME FILE:100549-SITE PLANS.DWG DATE:8/4/2016 12:03 PM

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POCKET PARK RECONSTRUCTION	
DESIGNER:	
DETAILER:	
SHEET SUBSET:	
STRUCTURE NUMBERS:	
SUBSET SHEET:	
OF	

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP12C13-74030
SHEET NUMBER:	7



FLAGSTONE WALKWAY PATTERN OR SIMILAR

FLAGSTONE NOTES:

1. FLAGSTONE SHOULD BE RECOVERED FROM SITE WHEN POSSIBLE. APPROXIMATELY 177 SQ. FT. OF FLAGSTONE WAS OBSERVED ON-SITE DURING SURVEY.
2. CONTRACTOR SHALL MATCH EXISTING PATTERN AND SUBMIT PRIOR TO INSTALLATION.
3. EXISTING PATTERN IS MADE FROM THREE (3) MAIN SIZES OF STONE, AS FOLLOWS:
 - 18" X 18"
 - 18" X 36"
 - 36" X 36"

FLAGSTONE SHALL BE CUT IN RECTANGULAR AND SQUARE PIECE TO MATCH EXISTING SIZES AND PATTERN.
4. WALKWAY IS CONTAINED BY 4"x9" SANDSTONE EDGING IN VARIOUS LENGTHS.
5. FLAGSTONE WALKWAY, EDGING, AND BASE BREEZE SHALL BE COLORADO RED. COLOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
6. FLAGSTONE SLAB SHALL BE SET ON A 2 INCH (APPROX) BREEZE BED.
7. MINIMUM THICKNESS OF FLAGSTONE SHALL BE 2 INCHES.
8. LONGITUDINAL JOINTS ARE NOT ALLOWED IN FLAGSTONE WALKWAYS SET ON COMPACTED SUBGRADE OR BREEZE BED.
9. FLAGSTONE SLABS SHALL BUTT UP AGAINST ONE ANOTHER, WITH A 1/2 INCH MAXIMUM GAP BETWEEN STONES IS ALLOWED ON WALKS.
10. A BREEZE MIX SHALL BE SWEEP DRY BETWEEN OPEN CRACKS, THEN WETTED DOWN.
11. NO MORE THAN 1/4 INCH VERTICAL DISPLACEMENT BETWEEN FLAGSTONE SLABS.
12. FLAGSTONE SHALL BE COLORADO RED AND BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.



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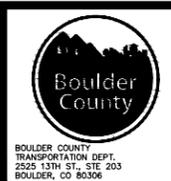


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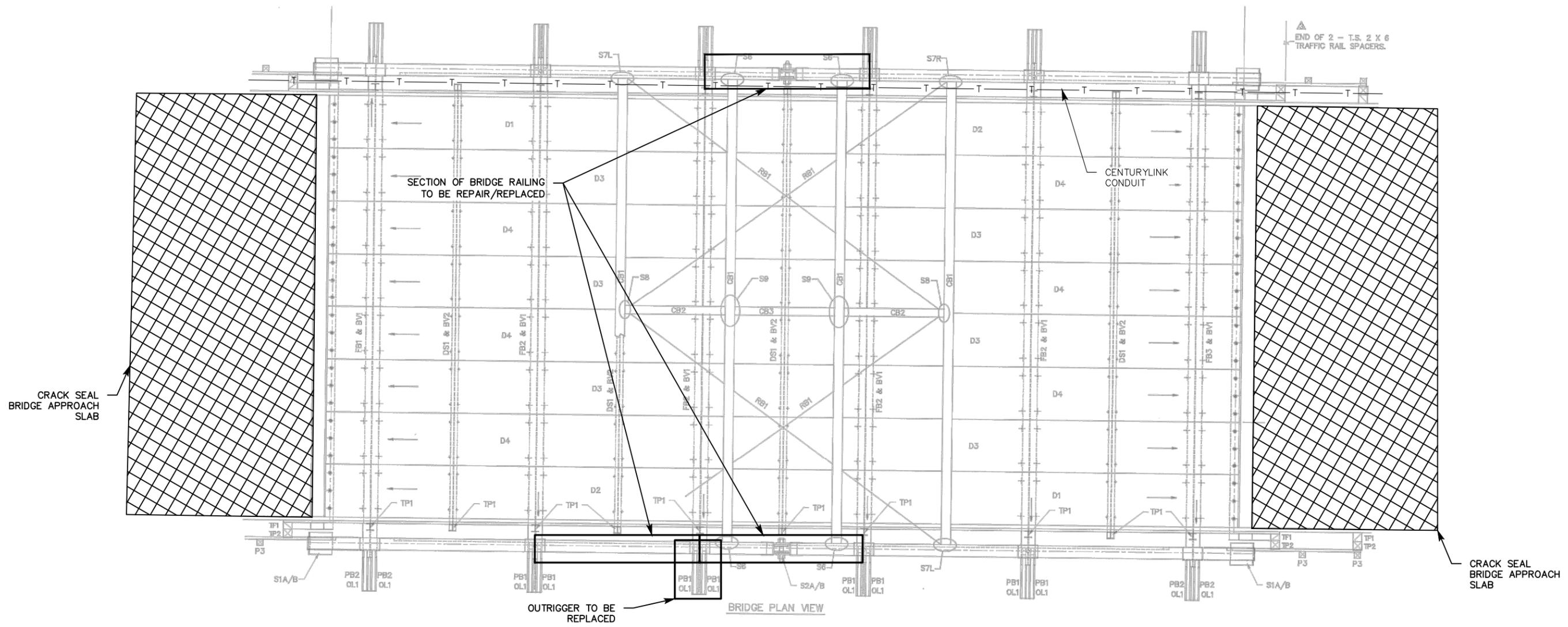
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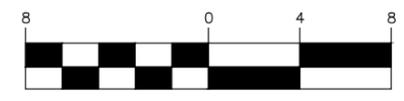
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FLAGSTONE WALKWAY PATTERN AND NOTES	
DESIGNER:	STRUCTURE NUMBERS
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE
PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP12C13-74030
SHEET NUMBER: 8



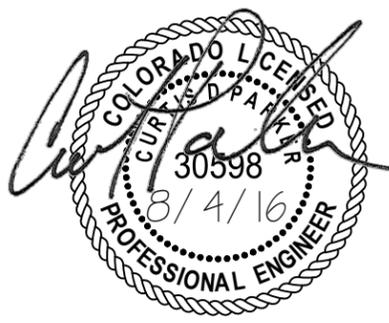
GRAPHIC SCALE



(IN FEET)
1/8 inch = 1 ft.

NOTES

1. CONTRACTOR TO REPAINT/REFINISH ENTIRE BRIDGE PER SPECIFICATION PROVIDED BY BOULDER COUNTY. COLOR TO BE SPECIFIED BY ENGINEER.
2. SAFETY TARP TO BE INSTALLED AFTER THE REPAIR OF STRUCTURE AND PRIOR TO THE PAINTING/STAINING TO PROTECT THE STREAM FROM DEBRIS AND CONTAMINANTS.
3. BRIDGE PLANS PROVIDED BY WESTERN WOOD STRUCTURES, INC. DATED JUNE 10, 1991.
4. BRIDGE REPAIR PARTS AND INSTALLATION HARDWARE SHALL BE OBTAINED FROM WESTERN WOOD STRUCTURES, INC. OR APPROVED EQUAL. SHEET 10 FOR MORE INFORMATION.

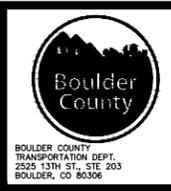


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CALL UTILITY NOTIFICATION CENTER OF COLORADO
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

COMPUTER FILE INFORMATION	
CREATION DATE: MAY 16, 2016	INITIALS: JPB
LAST MODIFICATION: AUGUST 4, 2016	INITIALS: JPB
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DRAWING FILE NAME: 100549-BRIDGE REPAIR.DWG	
ACAD VER. 2016	SCALE: SHOWN UNITS: FEET

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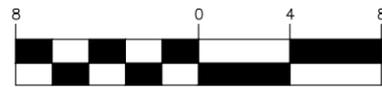
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DESIGNER:	STRUCTURE NUMBERS
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

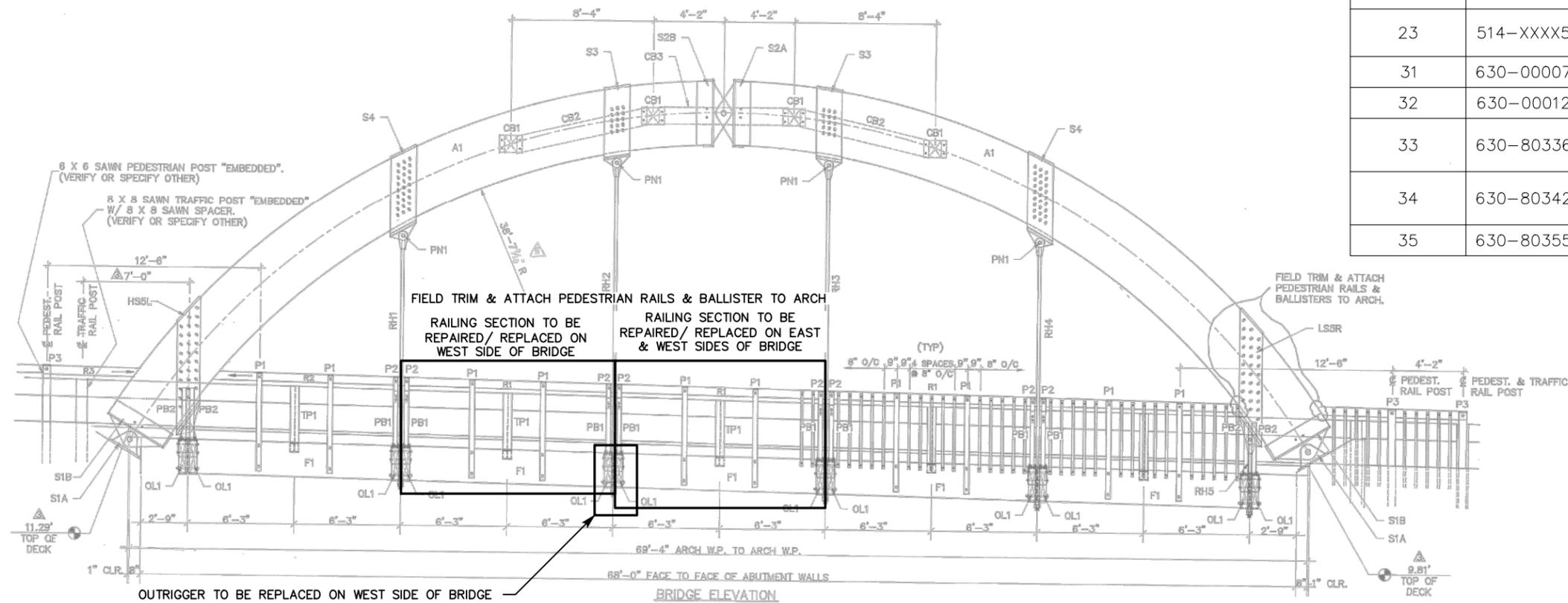
PROJECT NO./CODE
PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP12C13-74030
SHEET NUMBER: 9

CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Bridge/Park	
				Plan	As Const.
38	408-01000	Hot Poured Joint and Crack Sealant	TON	0.25	
39	508-90001	Paint Existing Structure (Special)	LS	1	
40	508-90005	Stain Existing Structure (Special)	LS	1	
18	514-01020	Pedestrian Railing (Timber)	LS	1	
19	514-XXXX1	F1 - 3 1/8" X 24" Glulam Facia	EA	3	
20	514-XXXX2	R1 - 2 1/4" X 6" Glulam Pedestrian Rail	EA	3	
21	514-XXXX3	P1 - 3 1/8" X 6" Glulam Post	EA	6	
22	514-XXXX4	B1 - 2" X 2" R Sawn Ballister	EA	45	
23	514-XXXX5	OL1 - 5 1/8" X 24" Glulam Outlooker	EA	2	
31	630-00007	Traffic Control Inspection	DAY	7	
32	630-00012	Traffic Control Management	DAY	16	
33	630-80336	Barricade (Type 3 M-B) (Temporary)	EACH	6	
34	630-80342	Construction Traffic Sign (Panel Size B)	EACH	2	
35	630-80355	Portable Message Sign Panel	EACH	1	

GRAPHIC SCALE



(IN FEET)
1/8 inch = 1 ft.



BY: JBLASINGAME FILE: 100549-BRIDGE_REPAIR.DWG DATE: 8/4/2016 12:03 PM

CALL UTILITY NOTIFICATION CENTER OF COLORADO



CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



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ACAD VER. 2016	SCALE: SHOWN UNITS: FEET

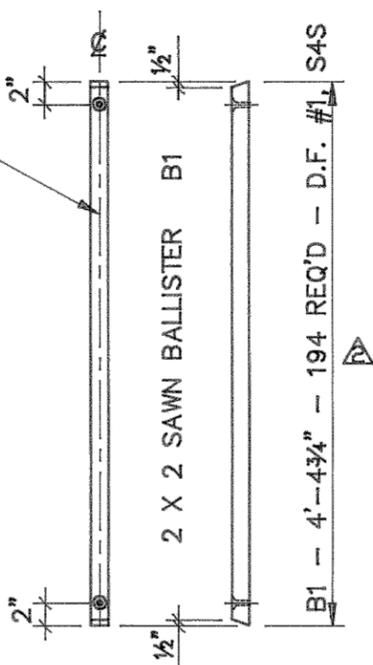
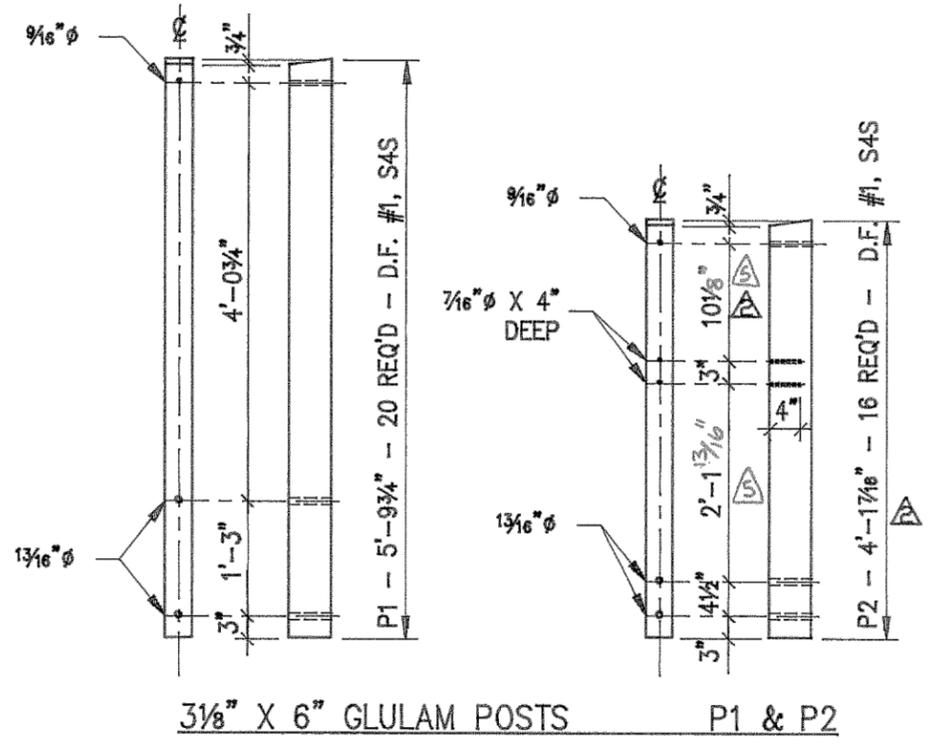
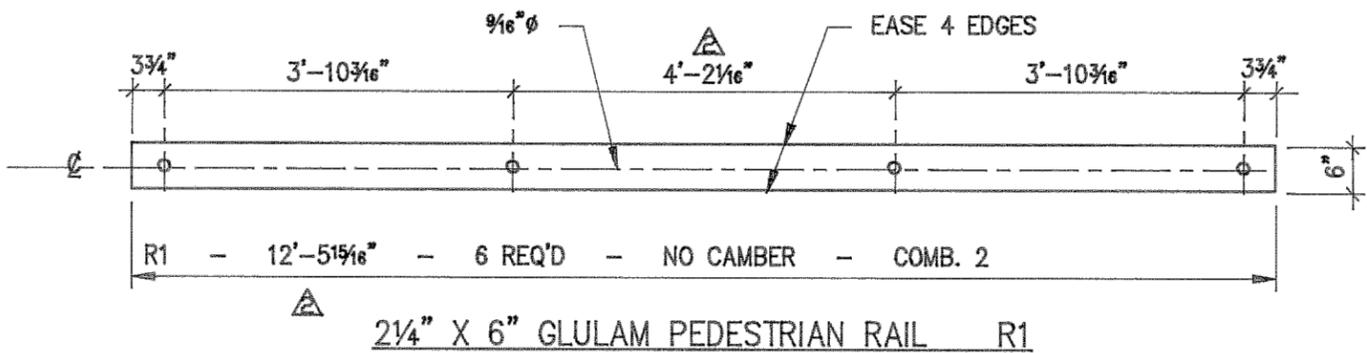
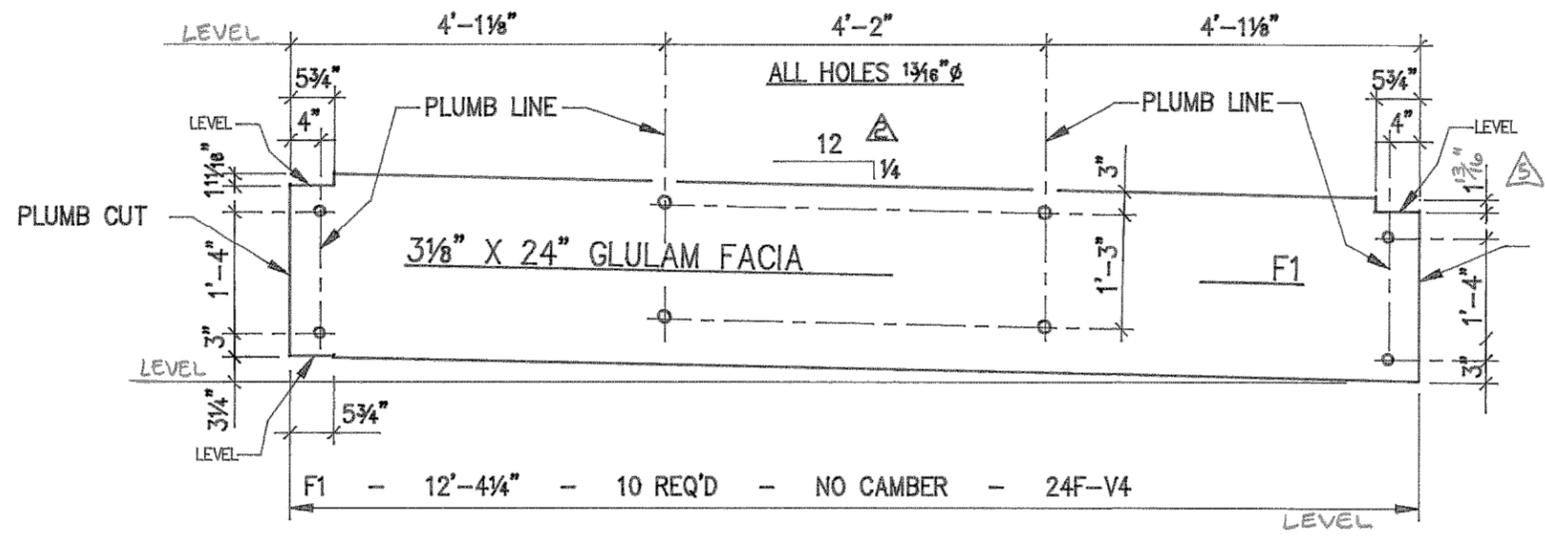
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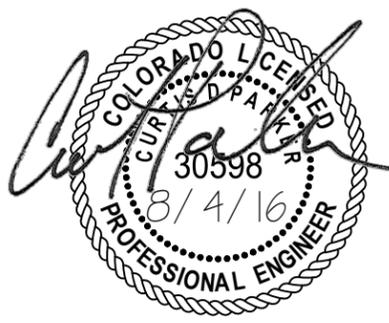
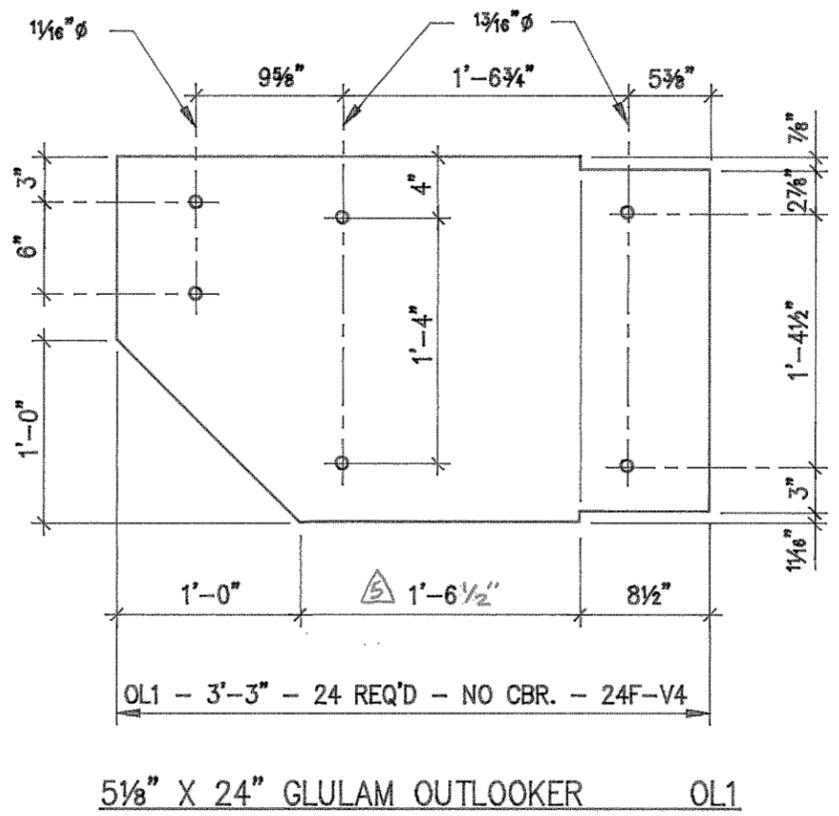
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BRIDGE REPAIR (2)	
DESIGNER:	STRUCTURE NUMBERS:
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP112C13-74030
SHEET NUMBER:	10



NOTE
 1. DETAILS PROVIDED BY WESTERN WOOD STRUCTURES, INC DATED JUNE 10, 1991. CONTRACTOR SHALL REFER PLANS FOR MORE INFORMATION.

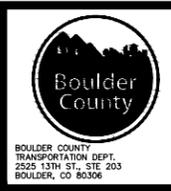


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CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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ACAD VER. 2016	SCALE: SHOWN UNITS: FEET

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FINAL	
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REVISED: TBD	
VOID:	

BRIDGE PART DETAILS	
DESIGNER:	
DETAILER:	
SHEET SUBSET:	

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP12C13-74030
SHEET NUMBER:	11

CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Roadway	
				Plan	As Const.
1	201-00000	Clearing & Grubbing	LS	0.70	
2	202-00240	Removal of Asphalt Mat (Planing)	SY	65	
5	207-00205	Topsoil	CY	38	
14	403-34621	Hot Mix Asphalt (Grading SX) (50) (PG 58-28)	TON	3	
29	627-00004	Epoxy Pavement Marking	GAL	1	
30	630-00000	Flagging	HOUR	200	
31	630-00007	Traffic Control Inspection	DAY	7	
32	630-00012	Traffic Control Management	DAY	16	
34	630-80342	Construction Traffic Sign (Panel Size B)	EACH	4	
36	630-80360	Drum Channelizing Device	EACH	10	

Legend	
	REMOVAL OF ASPHALT MAT (PLANING) & HMA OVERLAY
	6" SOIL AND SEED (NATIVE)
	EDGE OF ASPHALT
	OVERHEAD UTILITY LINE
	STORM CULVERT
	MAILBOX
	RIGHT-OF-WAY / ADJACENT PROPERTY LINE

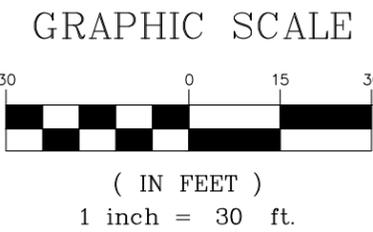
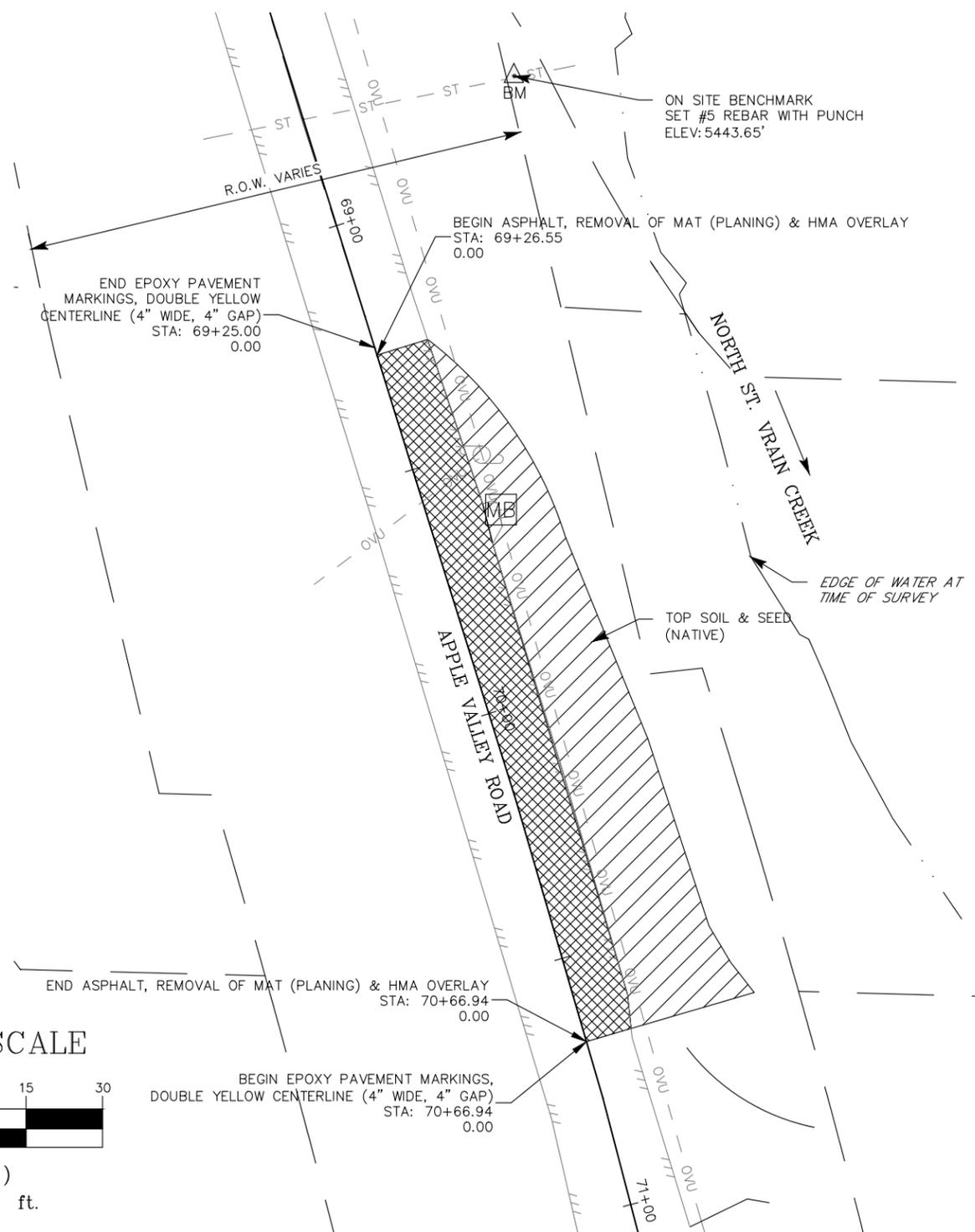
EARTHWORK NOTES

- EARTHWORK QUANTITIES ARE IN PLACE MEASUREMENT. NO SHRINK OR SWELL FACTORS WERE APPLIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INTERPRET THE SOIL CONDITIONS AND APPLY COMPACTION SWELL FACTORS.
- TOP SOIL SHALL BE IMPORTED MATERIAL.

CALL UTILITY NOTIFICATION CENTER OF COLORADO



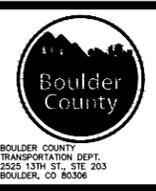
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



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ACAD VER. 2016	SCALE: SHOWN UNITS: FEET

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NO. REVISIONS: 0	
REVISED: TBD	
VOID:	

ROAD EMBANKMENT & ASPHALT REPAIR		
DESIGNER:	STRUCTURE NUMBERS:	
DETAILER:		
SHEET SUBSET:	SUBSET SHEET:	OF

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
CDOT PROJECT NO./CODE	4012.SEP12C13-74030
SHEET NUMBER:	12

Stormwater Management Plan -

1. SITE DESCRIPTION

THE CONTRACTOR SHALL COMPLY WITH ALL CDOT CONTRACTUAL REQUIREMENTS AND ALL REQUIREMENTS ASSOCIATED WITH THE CDPS-SCP ON THIS PROJECT. THE SWMP ADMINISTRATOR SHALL UPDATE TO REFLECT CURRENT PROJECT SITE CONDITIONS.

- A. PROJECT SITE LOCATION: THE BRIDGE AND PARK PORTION OF THE PROJECT IS LOCATED NEAR THE INTERSECTION OF US HIGHWAY 36 AND APPLE VALLEY ROAD. THE ROAD EMBANKMENT STABILIZATION AND ROAD REPAIR IS NEAR 850 APPLE VALLEY ROAD AND 923 APPLE VALLEY ROAD.
- B. PROJECT SITE DESCRIPTION: THE PROJECT INCLUDES THE RECONSTRUCTION OF A POCKET PARK NEAR THE SOUTH ABUTMENT FOR THE APPLE VALLEY ROAD BRIDGE, THE REPAIR AND PAINTING OF THE APPLE VALLEY ROAD BRIDGE, AND THE STABILIZATION OF THE EMBANKMENT AND REPAIR OF ASPHALT ALONG A PORTION OF APPLE VALLEY ROAD.
- C. MAJOR CONSTRUCTION ACTIVITIES WILL INCLUDE:
 - REMOVAL OF DAMAGED FLAGSTONE WALKWAY
 - IMPORT OF FILL
 - GRADING OF SIDEWALK AREA AND CREEK EMBANKMENT
 - PLACEMENT OF BOULDER TOE PROTECTION AND LANDSCAPE BOULDERS
 - CONSTRUCTION OF BOULDER RETAINING WALL
 - REPAIR OF EXISTING FLAGSTONE WALKWAY AND EXISTING FLAGSTONE RETAINING WALL CAP
 - PLACEMENT OF NEW FLAGSTONE WALKWAY
 - REPAIR OF DAMAGED RAILING SECTION ON EXISTING BRIDGE
 - PAINTING OF EXISTING BRIDGE
 - REMOVAL OF MAT OF EXISTING ASPHALT ROAD
 - PLACEMENT OF HOT MIX ASPHALT OVERLAY
 - PERMANENT SEEDING OF CREEK AND ROAD EMBANKMENT
 - TRAFFIC CONTROL THROUGHOUT THE PROJECT.
- D. ACRES OF DISTURBANCE
 TOTAL AREA OF CONSTRUCTION: 1.75 ACRES
 TOTAL AREA OF PROPOSED DISTURBANCE: 1.5 ACRES
 TOTAL ACRE OF SEEDING: 0.1 ACRES

E. EXISTING SOIL DATA:

THE EXISTING SOIL WITHIN THE POCKET PARK PORTION OF THE PROJECT ARE GENERALLY DEFINED AS PEYTON-JUGET VERY GRAVELLY LOAMY SANDS (PgE), WITH A HYDROLOGIC SOIL GROUP OF TYPE B, BY THE USDA.

THE EXISTING TERRAIN WITHIN THE ROAD AND EMBANKMENT REPAIR OF THE PROJECT ARE GENERALLY DEFINED AS COLLUVIAL LAND (Cu), WITH A HYDROLOGIC SOIL GROUP OF TYPE A, BY THE USDA.

F. EXISTING VEGETATION, INCLUDING PERCENT COVER:

A SURVEY INCLUDING GENERAL DESCRIPTION OF EXISTING VEGETATION SHALL BE CONDUCTED BY THE SWMP ADMINISTRATOR PRIOR TO ANY GROUND DISTURBANCE ON THE PROJECT. THE SWMP ADMINISTRATOR SHALL PHOTO-DOCUMENT EXISTING VEGETATION WHERE ALL WORK WILL BE OCCURRING.

PRE-CONSTRUCTION DATE OF SURVEY: _____ %DENSITY: _____
DESCRIPTION OF EXISTING VEGETATION: _____

POST-CONSTRUCTION DATE OF SURVEY: _____ %DENSITY: _____
DESCRIPTION OF EXISTING VEGETATION: _____

G. POTENTIAL POLLUTANTS SOURCES:

SEE FIRST CONSTRUCTION ACTIVITIES UNDER POTENTIAL POLLUTANT SOURCES. THE SWMP ADMINISTRATOR SHALL PREPARE A LIST OF ALL POTENTIAL POLLUTANTS AND THEIR LOCATIONS.

H. RECEIVING WATER:

NORTH ST. VRAIN CREEK – LOCATED TO THE NORTH AND EAST OF THE PROJECT LOCATIONS.

I. NON-STORMWATER DISCHARGES

ALLOWABLE:
 GROUNDWATER AND STORMWATER DEWATERING:
 DISCHARGES TO THE GROUNDWATER FROM CONSTRUCTION DEWATERING ACTIVITIES MAY BE AUTHORIZED PROVIDED THAT:

- A. THE SOURCE IS GROUNDWATER AND/OR GROUNDWATER COMBINED WITH STORMWATER THAT DOES NOT CONTAIN POLLUTANTS.
- B. THE SOURCE AND BMPS ARE IDENTIFIED IN THE SWMP.
- C. DISCHARGES DO NOT LEAVE THE SITE AS SURFACE RUNOFF OR TO SURFACE WATERS.
- D. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECT TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL OF ANY DEBRIS CAUSED BY FLOODING. ANY DEWATERING SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 107.25

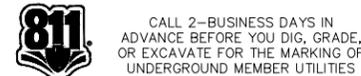
CONTAMINATED:
 IF DISCHARGES DO NOT MEET THE ABOVE CRITERIA A SEPARATE PERMIT FROM THE DEPARTMENT OF HEALTH WILL BE REQUIRED. CONTAMINATED GROUNDWATER REQUIRING COVERAGE UNDER A SEPARATE PERMIT MAY INCLUDE GROUNDWATER CONTAMINATED WITH POLLUTANTS FROM A LANDFILL, MINING ACTIVITIES, UN-INDUSTRIAL POLLUTANTS PLUMES, UNDERGROUND STORAGE TANKS, ETC.

2. SITE MAP COMPONENTS:

- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES: ALL CONSTRUCTION SHALL BE WITHIN THE EXISTING RIGHT-OF-WAY AND TEMPORARY OR PERMANENT EASEMENTS UNLESS OTHERWISE NOTED. SEE SWMP SITE PLAN.
- B. ALL AREAS OF GROUND DISTURBANCE: SEE SWMP SITE MAPS
- C. LOCATION OF BMPs/CONTROL MEASURES IDENTIFIED IN THE SWMP: SEE SWMP SITE MAPS

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BOULDER COUNTY TRANSPORTATION DEPT. 2525 13TH ST., STE 203 BOULDER, CO 80306

Stormwater Management Plan - Continued

3. SWMP ADMINISTRATOR

A. SWMP ADMINISTRATOR FOR CONSTRUCTION: (AS DEFINED IN SUBSECTION 208) THE CONTRACTOR SHALL DESIGNATE A SWMP ADMINISTRATOR FOR CONSTRUCTION UPON OWNERSHIP OF THE SWMP. THE SWMP ADMINISTRATOR SHALL BECOME THE OWNER/OPERATOR AND ASSUME RESPONSIBILITY FOR ALL DESIGN CHANGES TO THE SWMP IMPLEMENTATION AND MAINTENANCE IN ACCORDANCE TO 208.03. THE SWMP ADMINISTRATOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES AND RESPONSIBILITIES OF THE SWMP ADMINISTRATOR SHALL ADDRESS ALL ASPECTS OF THE PROJECTS SWMP. (UPDATE THE INFORMATION BELOW FOR EACH NEW SWMP ADMINISTRATOR) (COPY OF TECS CERTIFICATION MUST ALSO BE INCLUDED IN THE SWMP NOTEBOOK.)

NAME	CONTACT INFORMATION	CERTIFICATION #	START DATE	ENGINEER APPROVAL

B. EROSION CONTROL INSPECTOR: (AS DEFINED IN SUBSECTION 208) THE CONTRACTOR MAY DESIGNATE AN EROSION CONTROL INSPECTOR. THE EROSION CONTROL INSPECTOR SHALL COMPLETE DUTIES IN ACCORDANCE WITH SUBSECTION 208.03 (C) (COPY OF TECS CERTIFICATION MUST ALSO BE INCLUDED IN THE SWMP NOTEBOOK.)

NAME	CONTACT INFORMATION	CERTIFICATION #	START DATE	ENGINEER APPROVAL

4. STORMWATER MANAGEMENT CONTROLS

A. OFFSITE DRAINAGE (RUN ON WATER)

RUN-ON WATER IS NOT EXPECTED TO AFFECT THE POCKET PARK AND BRIDGE REPAIR PORTION OF THIS PROJECT. APPLE VALLEY ROAD CURRENTLY DRAINS OFF THE ROAD TO THE EAST AND THE EXISTING ASPHALT DRIVE DRAINS TO A ROAD SIDE DITCH ON THE SOUTH SIDE.

RUN-ON WATER IS EXPECTED TO AFFECT THE ROAD & EMBANKMENT REPAIR PORTION OF THE PROJECT. APPLE VALLEY ROAD CURRENTLY DRAINS FROM THE CENTERLINE CREST OFF THE ROAD AND DOWN THE EMBANKMENT TO THE CREEK. DIVERSION BMPs TO CONTROL RUN-ON WATER MAY CONSIST OF EROSION LOGS, SILT FENCE, OR OTHER BMPs AS APPROVED. BMPs SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

B. STABILIZED CONSTRUCTION ENTRANCE/VEHICLE TRACKING CONTROL

BMPs SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

C. PERIMETER CONTROL

PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS. PERIMETER CONTROL MAY CONSIST OF VEGETATION BUFFERS, BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER BMPs AS APPROVED. PERIMETER CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP DURING CONSTRUCTION

THE SWMP SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED. DURING CONSTRUCTION, THE FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE SWMP ADMINISTRATOR IN ACCORDANCE WITH SUBSECTION 208.

DURING CONSTRUCTION, INDICATE HOW ITEMS THAT HAVE NOT BEEN ADDRESSED DURING DESIGN ARE BEING HANDLED IN CONSTRUCTION. IF ITEMS ARE COVERED IN THE TEMPLATE OR OTHER SECTIONS OF THE SWMP NOTEBOOK INDICATE BELOW WHAT SECTION THE DISCUSSION TAKES PLACE.

A. MATERIALS HANDLING AND SPILL PREVENTION

ANY MATERIAL STOCKPILES SHALL BE CONFINED SO THAT NO MATERIAL OR THEIR RUN-OFF WILL ENTER STATE WATERS. LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

CONTAIN AND CLEANUP EQUIPMENT FUEL, OIL, AND LUBRICANTS LEAKS, BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS, AND ANY OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.

CONTRACTOR SHALL INSPECT AND CERTIFY EQUIPMENT AND VEHICLES DAILY TO ENSURE PETROLEUM, OILS, AND LUBRICANTS (POL) ARE NOT LEAKING ONTO THE SOIL OR PAVEMENT. ABSORBENT MATERIAL OR CONTAINERS APPROVED BY ENGINEER SHALL BE USED TO PREVENT LEAKING POL FROM REACHING THE SOIL OR PAVEMENT. CONTRACTOR SHALL HAVE READY APPROVED ABSORBENT MATERIAL OR CONTAINERS OF SUFFICIENT CAPACITY TO CONTAIN ANY POL LEAK THAT CAN REASONABLY BE FORESEEN. ALL MATERIAL RESULTING FROM POL LEAKAGE CONTROL AND CLEANUP SHALL BE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE. THE COST FOR CONTROL AND CLEANUP OF POL LEAKS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

B. STOCKPILE MANAGEMENT

SILT FENCE, BERMS, OR OTHER SEDIMENT CONTROL DEVICES SHALL BE PLACED AT THE TOE (OR JUST BEYOND TOE) OF ALL ERODIBLE STOCKPILES (INCLUDING TOPSOIL). SEDIMENT CONTROL OR STOCKPILES WILL NOT BE PAID FOR SEPARATELY.

THERE SHALL BE NO STOCKPILING OR SIDE CASTING OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO PAINT CHIPS, ASPHALT, AND CONCRETE ADJACENT TO ANY STATE WATERS.

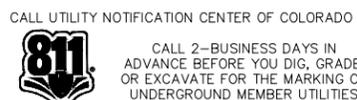
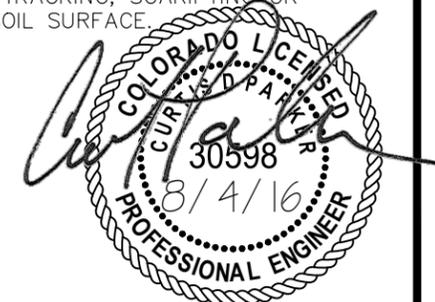
C. GRADING AND SLOPE STABILIZATION

PLACEMENT OF TOPSOIL OR SOIL CONDITIONER, SEED, MULCH AND MULCH TACKIFIER (OR BLANKETS) WILL NOT BE DONE IN A SINGLE OPERATION, BUT SHALL BE COMPLETED:

- a. WHEN AREAS OF WORK HAVE BEEN COMPLETED, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS.
- b. IN DISTURBED AREAS WHERE WORK IS TEMPORARILY HALTED, THE AREAS SHALL BE TEMPORARY STABILIZED WITHIN 7 DAYS AFTER ACTIVITY HAS CEASED, UNLESS WORK IS TO BE RESUMED WITHIN 30 CALENDAR DAYS AFTER THE ACTIVITY CEASED (AS AUTHORIZED BY ENGINEER).

D. SURFACE ROUGHENING

DISTURBED SURFACES SHALL BE LEFT IN A ROUGHENED CONDITION BY EQUIPMENT TRACKING, SCARIFYING OR DISKING THE SURFACE ON CONTOUR WITH A 2 TO 4 INCH MINIMUM VARIATION IN SOIL SURFACE.



BY:JBLASINGAME FILE:100549-SWMP.DWG DATE:8/4/2016 12:05 PM

COMPUTER FILE INFORMATION CREATION DATE: MAY 16, 2016 INITIALS: JPB LAST MODIFICATION: AUGUST 4, 2016 INITIALS: JPB PLOTTED DATE: August 4, 2016 DRAWING FILE NAME: 100549-SWMP.DWG ACAD VER. 2016 SCALE: SHOWN UNITS: FEET		INDEX OF REVISIONS <table border="1"> <tr><td> </td><td>-</td><td>-</td></tr> <tr><td> </td><td>-</td><td>-</td></tr> <tr><td> </td><td>-</td><td>-</td></tr> <tr><td> </td><td>-</td><td>-</td></tr> <tr><td> </td><td>-</td><td>-</td></tr> </table>			-	-		-	-		-	-		-	-		-	-			FINAL NO. REVISIONS: 0 REVISED: TBD VOID:		SWMP NOTES (2) DESIGNER: DETAILER: SHEET SUBSET:		PROJECT NO./CODE PROJECT NO./CODE RD-071-000-FLOOD CDOT PROJECT NO./CODE 4012.SEP12C13-74030 SHEET NUMBER: 14	
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Stormwater Management Plan - CONTINUED

E. VEHICLE TRACKING

CONTRACTOR SHALL CERTIFY THAT CONSTRUCTION EQUIPMENT HAS BEEN CLEANED PRIOR TO SITE ARRIVAL. VEHICLES SHALL BE FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS ONTO THE SITE.

F. TEMPORARY STABILIZATION

WHEN DISTURBED AREAS EXCEED LIMITS REFERENCED IN STANDARD SPECIFICATION 208 OR DURING THE SUMMER AND WINTER WHEN SEEDING IS NOT ALLOWED, TEMPORARY STABILIZATION SHALL OCCUR. TEMPORARY STABILIZATION SHALL NOT BE PAID FOR THE CONVENIENCE OF THE CONTRACTOR. TEMPORARY STABILIZATION SHALL CONSIST OF:

1.5 TONS OF CERTIFIED WEED FREE FORAGE PER ACRE, MECHANICALLY CRIMPED INTO THE SOIL.

G. STREET CLEANING

SHALL BE DONE IN ACCORDANCE WITH 208.05. WHENEVER SEDIMENT IS TRANSPORTED ONTO THE ROAD, THE ROAD SHALL BE CLEANED AS NEEDED. STREET WASHING WILL NOT BE ALLOWED. STORM DRAIN INLET PROTECTION SHALL BE IN PLACE PRIOR TO SHOVELING, SWEEPING, OR VACUUMING. STREET CLEANING WILL NOT BE PAID FOR SEPARATELY.

6. INSPECTIONS

A. INSPECTIONS SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.03(C)

7. BMP/CONTROL MAINTENANCE

A. MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04 (F)

8. RECORD KEEPING

A. RECORDS SHALL BE KEPT IN ACCORDANCE WITH SUBSECTION 208.03 (D)

9. INTERIM AND PERMANENT STABILIZATION

A. SEEDING PLAN

SOIL PREPARATION, SOIL CONDITIONING OR TOPSOIL, SEEDING (NATIVE), WILL BE REQUIRED FOR AN ESTIMATED 0.1 ACRES OF DISTURBED AREA WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT SURFACED. THE FOLLOWING TYPES AND RATES SHALL BE USED:

FOOTHILLS SEED MIX
(5,500 FEET TO 7,000 FEET ELEVATION)

COMMON NAME	SPECIES NAME	VARIETY	% OF MIX	#PLS/ACRE
SIDE OATS GRAMA	BOUTELOUA CURTIPENDULA	VAUGHN	10.0%	1.82
BLUE GRAMA	BOUTELOUA GRACILIS	NATIVE, ALMA, OR HACHITA	15.0%	0.63
SLENDER WHEATGRASS	ELYMUS TRACHCAULUS	SAN LUIS	20.0%	4.38
JUNEGRASS	KOELERIA MACRANTHA	NATIVE	10.0%	0.15
WESTERN WHEATGRASS	PASCOYRUM SMITHII	ARRIBA	10.0%	3.17
WESTERN WHEATGRASS	PASCOYRUM SMITHII	NATIVE	10.0%	3.17
SWITCHGRASS	PANICUM VIRGATUM	BLACKWELL OR NEBRASKA 28	7.0%	0.63
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	CIMARRON OR PASTURA	8.0%	1.07
GREEN NEEDLEGRASS	STIPA VIRIDULA	LODORM OR NATIVE	10.0%	1.93
TOTALS			100.0%	16.95

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RATES SHOWN ARE FOR BROADCAST SEEDING. IF USING A SEED DRILL, REDUCE RATES BY HALF.

PLS = PURE LIVE SEED

SOURCE – BOULDER COUNTY LAND USE DEPARTMENT – "NATIVE SEED MIXES"

B. SEEDING APPLICATION: DRILL SEED 0.25" – 0.5" INTO THE TOPSOIL. IN AREAS INACCESSIBLE TO A DRILL, HAND BROADCAST AT DOUBLE THE RATE AND RAKE 0.25 INCH TO 0.5 INCH INTO THE SOIL PER SUBSECTION 212.

C. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS: : MINIMUM REQUIREMENTS FOR ALL DISTURBANCES TO RECEIVE SEEDING (NATIVE).

SOIL CONDITIONER			
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) All areas <2:1	Spray on Amendment (lbs/acre) >2:1 slopes only
300	200	65	3500

D. SOIL RETENTION COVERING: ON SLOPES AND DITCHES REQUIRING A BLANKET OR TURF REINFORCEMENT MAT (TRM), THE BLANKET/TRM SHALL BE PLACED AFTER SEEDING (NATIVE). SEE SWMP SITE MAP FOR BLANKET/TRM LOCATIONS.

E. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION
PRIOR TO PARTIAL ACCEPTANCE

a. ALL SEEDED AREAS SHALL BE REVIEWED DURING THE 14 DAY INSPECTIONS BY THE SWMP ADMINISTRATOR AND OR EROSION CONTROL INSPECTOR FOR BARE SOILS CAUSED BY SURFACE OR WIND EROSION. BARE AREAS CAUSED BY SURFACE OR GULLY EROSION, BLOWN AWAY MULCH, ETC. SHALL BE RE-GRADED, SEEDED, AND HAVE THE DESIGNATED MULCHING APPLIED AS NECESSARY, AT NO ADDITIONAL COST TO THE PROJECT.

b. THE CONTRACTOR SHALL MAINTAIN SEEDING/MULCH/TACKIFIER/BLANKET/TRM, MOW TO CONTROL WEEDS OR APPLY HERBICIDE TO CONTROL WEEDS IN THE SEEDED AREAS UNTIL PARTIAL ACCEPTANCE OF THE STORMWATER CONSTRUCTION WORK.

10. PRIOR TO FINAL FINAL ACCEPTANCE

A. PARTIAL ACCEPTANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 107.25 (D), 208.10 AND 214.04 AT THE PARTIAL ACCEPTANCE OF THE PROJECT, IT SHALL BE DETERMINED BY THE SWMP ADMINISTRATOR AND THE ENGINEER WHICH TEMPORARY BMPS/CONTROL MEASURES SHALL REMAIN UNTIL 70% REVEGETATION IS ESTABLISHED OR WHICH SHALL BE REMOVED.

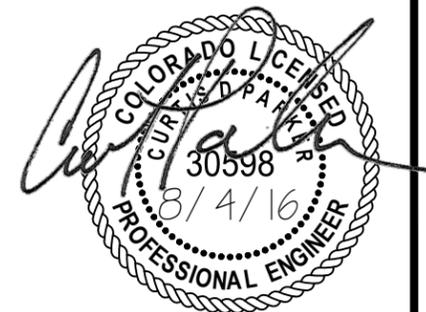
11. BIOLOGICAL IMPACTS

A. WETLANDS IMPACTS – NO

B. STREAM IMPACTS – YES, PROJECT INCLUDES WORK ON THE SOUTH BANK OF NORTH ST. VRAIN CREEK TO RESTORE THE BANK TO PRE-FLOOD CONDITIONS.

C. THREATENED AND ENDANGERED SPECIES IMPACTS – NO

D. HISTORICAL IMPACTS – NO



BY:JBLASINGAME FILE:100549-SWMP.DWG DATE:8/4/2016 12:05 PM

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NOTES

1. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE PER CDOT STANDARD PLAN NO. M-208-1.

Legend



SOIL RETENTION BLANKET (BIODEGRADABLE COCONUT)



SEEDING (NATIVE)



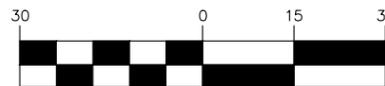
EROSION LOG (BIODEGRADABLE)



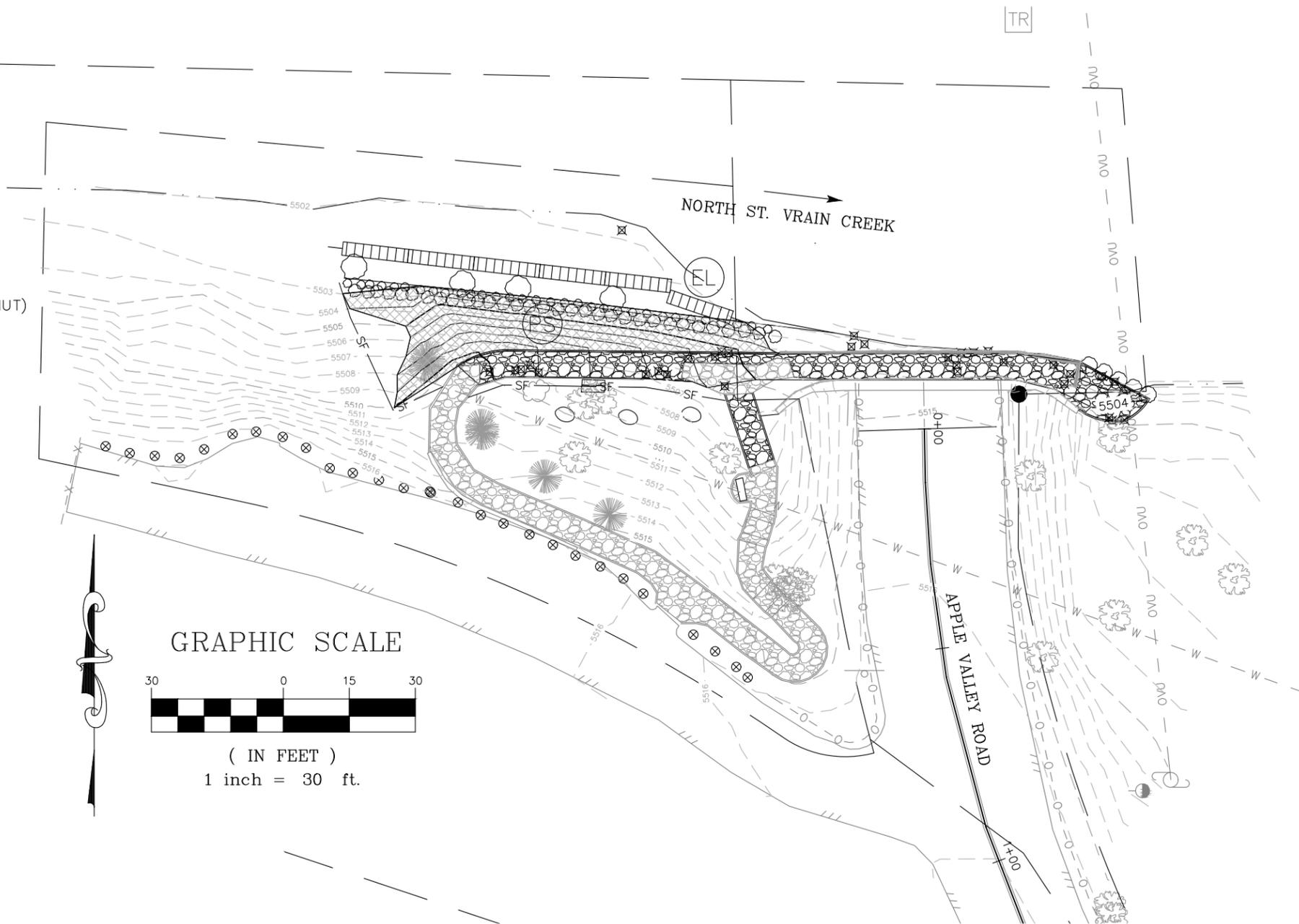
SILT FENCE

CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Bridge/Park	
				Plan	As Const.
6	208-00005	Erosion Log (Biodegradable)	LF	97	
7	208-00020	Silt Fence	LF	107	
8	208-00205	Erosion Control Supervisor	HR	90	
9	212-00006	Seeding (Native)	AC	0.03	
13	216-00042	Soil Retention Blanket (Biodegradable) (Coconut)	SY	118	

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.



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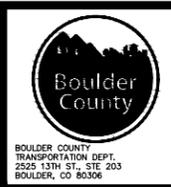


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DESIGNER:	STRUCTURE NUMBERS
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE	
PROJECT NO./CODE	RD-071-000-FLOOD
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NOTES

- ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE PER CDOT STANDARD PLAN NO. M-208-1.

Legend



SOIL RETENTION BLANKET (BIODEGRADABLE COCONUT)

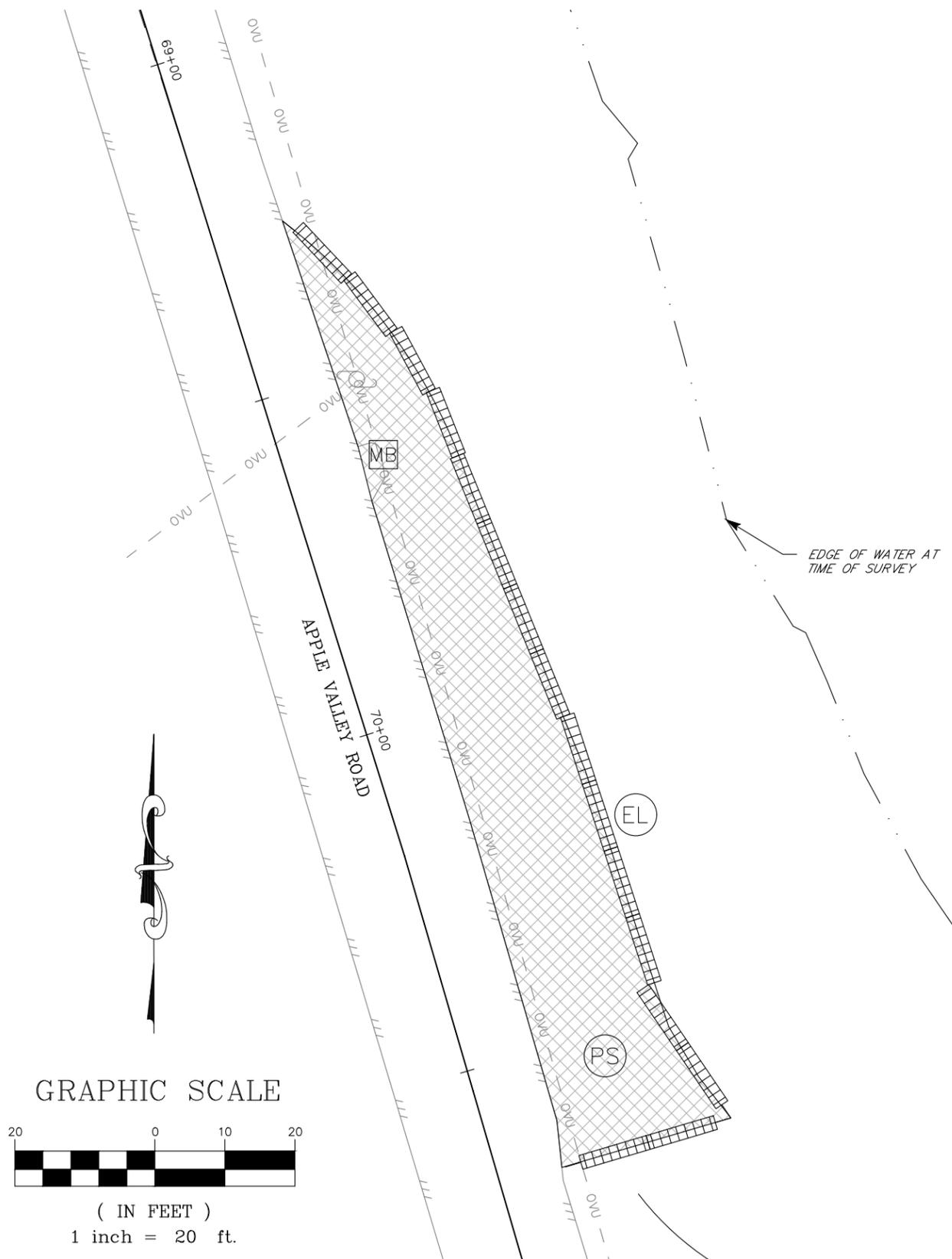


PERMANENT SEEDING

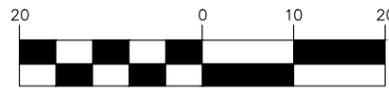


EROSION LOG (BIODEGRADABLE)

CONTRACT ITEM NUMBER	CONTRACT SECTION NO.	ITEM DESCRIPTION	UNIT	Roadway	
				Plan	As Const.
6	208-00005	Erosion Log (Biodegradable)	LF	170	
8	208-00205	Erosion Control Supervisor	HR	90	
9	212-00006	Seeding (Native)	AC	0.05	
13	216-00042	Soil Retention Blanket (Biodegradable) (Coconut)	SY	236	



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

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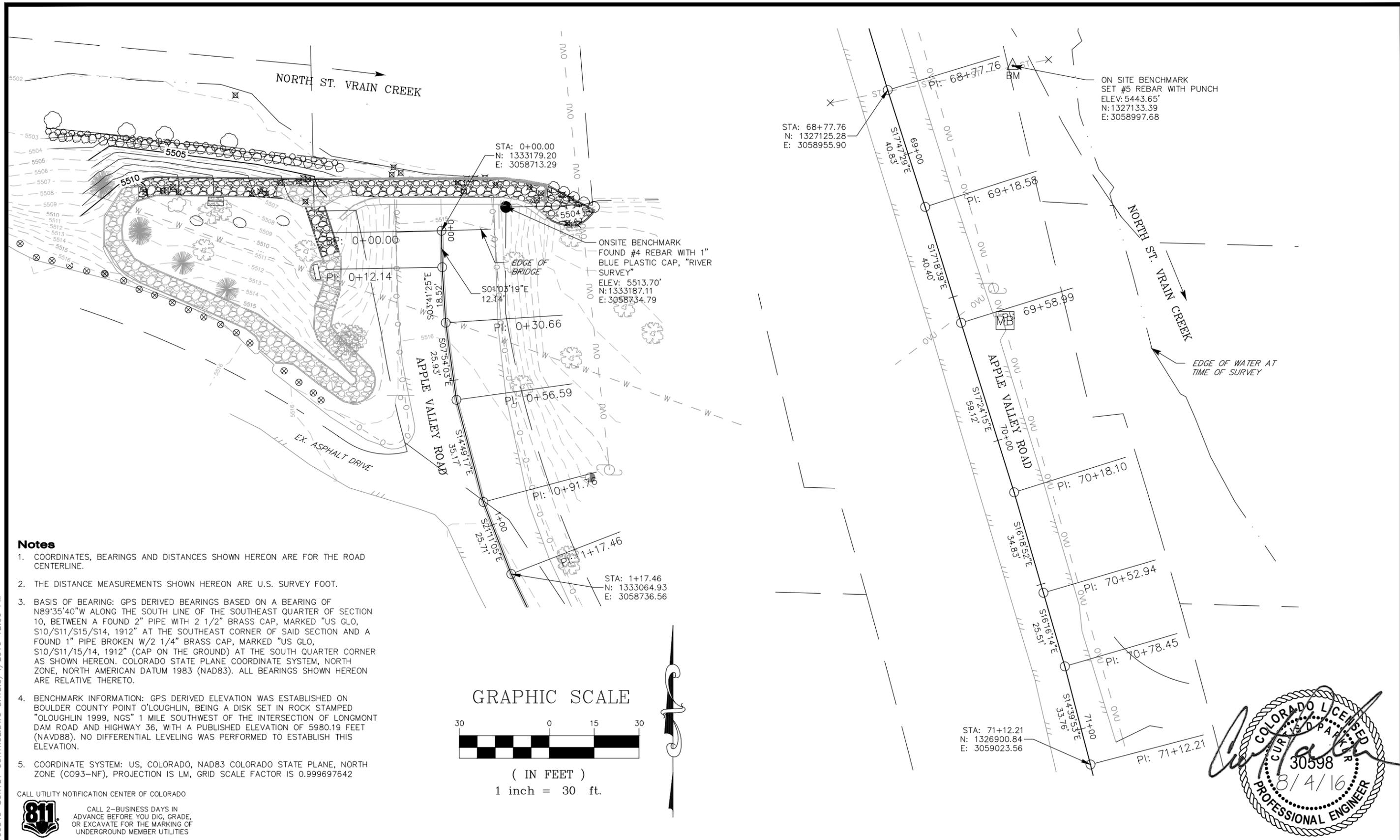
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BY: JBLASINGAME FILE: 100549-SURVEY CONTROL.DWG DATE: 8/4/2016 12:06 PM



Notes

- COORDINATES, BEARINGS AND DISTANCES SHOWN HEREON ARE FOR THE ROAD CENTERLINE.
- THE DISTANCE MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FOOT.
- BASIS OF BEARING: GPS DERIVED BEARINGS BASED ON A BEARING OF N89°35'40"W ALONG THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 10, BETWEEN A FOUND 2" PIPE WITH 2 1/2" BRASS CAP, MARKED "US GLO, S10/S11/S15/S14, 1912" AT THE SOUTHEAST CORNER OF SAID SECTION AND A FOUND 1" PIPE BROKEN W/2 1/4" BRASS CAP, MARKED "US GLO, S10/S11/15/14, 1912" (CAP ON THE GROUND) AT THE SOUTH QUARTER CORNER AS SHOWN HEREON. COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD83). ALL BEARINGS SHOWN HEREON ARE RELATIVE THERETO.
- BENCHMARK INFORMATION: GPS DERIVED ELEVATION WAS ESTABLISHED ON BOULDER COUNTY POINT O'LOUGHLIN, BEING A DISK SET IN ROCK STAMPED "OLOUGHLIN 1999, NGS" 1 MILE SOUTHWEST OF THE INTERSECTION OF LONGMONT DAM ROAD AND HIGHWAY 36, WITH A PUBLISHED ELEVATION OF 5980.19 FEET (NAVD88). NO DIFFERENTIAL LEVELING WAS PERFORMED TO ESTABLISH THIS ELEVATION.
- COORDINATE SYSTEM: US, COLORADO, NAD83 COLORADO STATE PLANE, NORTH ZONE (CO93-NF), PROJECTION IS LM, GRID SCALE FACTOR IS 0.999697642

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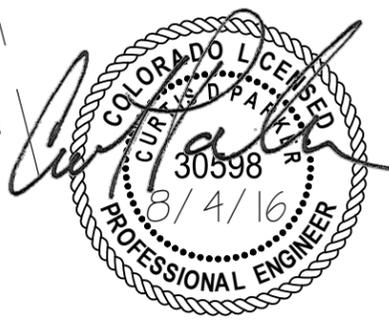
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REVISED: TBD	
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SURVEY CONTROL	
DESIGNER:	
DETAILER:	
SHEET SUBSET:	

PROJECT NO./CODE	
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SHEET NUMBER:	18



COLORADO STATE HIGHWAY 36

EXCLUSIVE BRIDGE EASEMENT

MARK & KATHLEEN BERTUZZI
2191 APPLE VALLEY RD
LYONS, CO 80540
PARCEL #120112000005

TOWN OF LYONS
PO BOX 49
LYONS, CO 80540-9999
PARCEL #120112000056

TOWN OF LYONS
PO BOX 49
LYONS, CO 80540-9999
PARCEL #120112000006

NANCY & ROBERT NOYES
953 APPLE VALLEY RD.
LYONS, CO 80540
PARCEL #120113000011

JERRY C & SHARON D DUST
923 APPLE VALLEY RD.
LYONS, CO 80540
PARCEL #120113000010

THOMAS D & CHARLETTE K MORAN
877 APPLE VALLEY RD.
LYONS, CO 80540
PARCEL #120113000024

BARTON L. & TERESA SUE MAYES
2337 DOYLE DR
BERTHOUD, CO 80513
PARCEL #120113000009

JERRY C & SHARON D DUST
923 APPLE VALLEY RD.
LYONS, CO 80540
PARCEL #120113000010

KENNETH & SANDRA SPELLMAN SINGER
850 APPLE VALLEY RD.
LYONS, CO 80540
PARCEL #120113000025

APPLE VALLEY ROAD

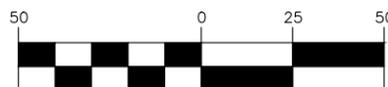
APPLE VALLEY ROAD

Notes

- OWNERSHIP INFORMATION IS PER BOULDER COUNTY WEBSITE AS RESEARCHED ON JUNE 8, 2016 AND IS SUBJECT TO CHANGE



GRAPHIC SCALE



(IN FEET)

1 inch = 50 ft.

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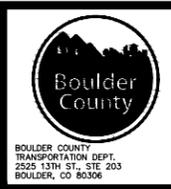
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REVISED: TBD
VOID:

OWNERSHIP INFO	
DESIGNER:	STRUCTURE NUMBERS:
DETAILER:	
SHEET SUBSET:	SUBSET SHEET: OF

PROJECT NO./CODE
PROJECT NO./CODE RD-071-000-FLOOD
CDOT PROJECT NO./CODE 4012.SEP12C13-74030
SHEET NUMBER: 19