

BOULDER COUNTY TRANSPORTATION DEPARTMENT

ENGINEERING DIVISION

60% PLANS OF PROPOSED FOURMILE CANYON DRIVE CONSTRUCTION BOULDER CANYON DRIVE TO SALINA JUNCTION BOULDER COUNTY

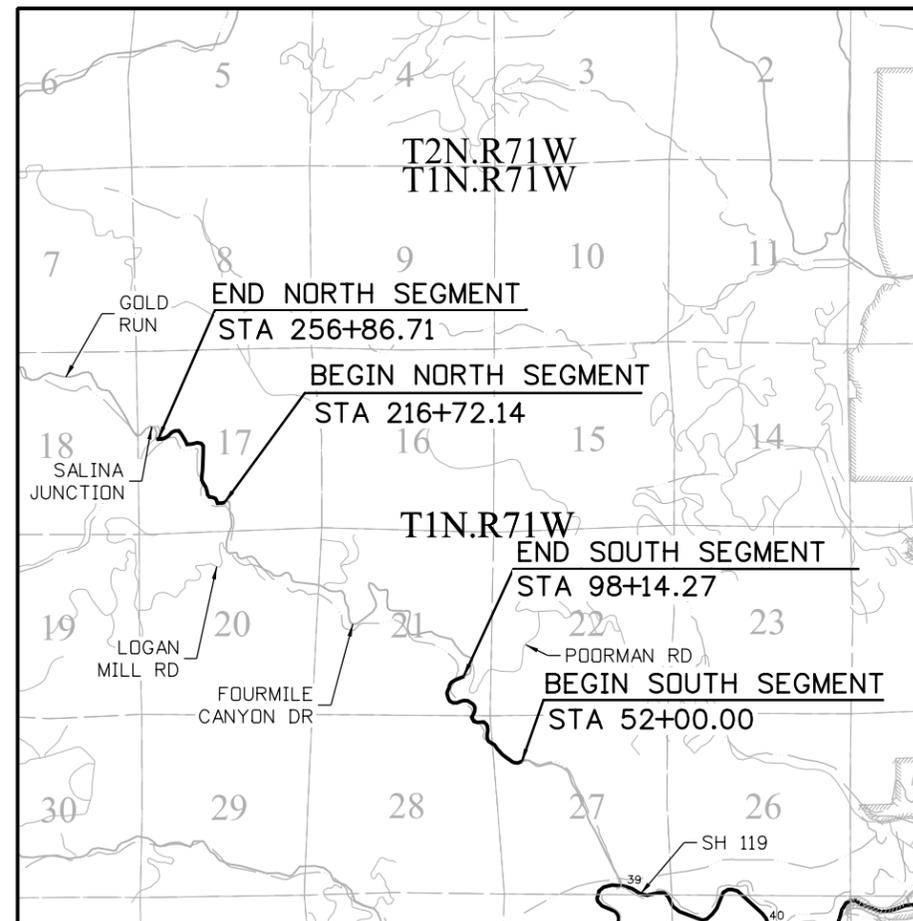
BOULDER COUNTY PROJECT NO. 4043.SEPT12C36

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RIGHT OF WAY	
	RIGHT OF WAY PLANS (NOT INCLUDED IN 60% SUBMITTAL)

TABULATION OF LENGTH & DESIGN DATA		
STATION	FEET	
	ROADWAY	STRUCTURE
BEGIN SOUTH SEGMENT FOURMILE CANYON DR STA 52+00.00 (HCL S FOURMILE) END SOUTH SEGMENT FOURMILE CANYON DR STA 98+14.27 (HCL S FOURMILE)	4,614.27	
BEGIN NORTH SEGMENT FOURMILE CANYON DR STA 216+72.14 (HCL N FOURMILE) END NORTH SEGMENT FOURMILE CANYON DR STA 256+86.71 (HCL N FOURMILE)	4,014.57	
TOTAL	8,628.84	
SUMMARY OF PROJECT LENGTH	FEET	MILES
ROADWAY (NET LENGTH)	8,628.84	1.63
MAJOR STRUCTURE (NET LENGTH)	0.00	0.00
PROJECT GROSS LENGTH	8,628.84	1.63

DESIGN DATA	HCL S FOURMILE	HCL N FOURMILE
ROADWAY CLASSIFICATION	LOCAL/COLLECTOR	LOCAL/COLLECTOR
EXISTING SURFACE TYPE	PAVED	PAVED
MINIMUM RADIUS OF CURVE	90.00'	80.00'
MAXIMUM GRADE	8.06%	7.98%
MINIMUM S.S.D. HORIZONTAL	81'	81'
MINIMUM S.S.D. VERTICAL	196'	325'
DESIGN SPEED	25 MPH	25 MPH
CLEAR ZONE DISTANCE	7' TO 10'	7' TO 10'
MAXIMUM SUPERELEVATION (emax)	6%	6%



PROJECT LOCATION MAP



60% SET	 <small>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</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REVISIONS:</th> <th style="text-align: left;">NO.</th> <th style="text-align: left;">DATE</th> <th style="text-align: left;">REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:													 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">DESIGNED:</th> <th style="text-align: left;">CAD:</th> <th style="text-align: left;">CHECKED:</th> <th style="text-align: left;">DATE:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EAV</td> <td style="text-align: center;">EAV</td> <td style="text-align: center;">DTW</td> <td style="text-align: center;">08/30/16</td> </tr> </tbody> </table>	DESIGNED:	CAD:	CHECKED:	DATE:	EAV	EAV	DTW	08/30/16	FOURMILE CANYON DR TITLE SHEET <small>PROJECT NO: 4043.SEPT12C36 SHEET NO: 1</small>
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EAV	EAV	DTW	08/30/16																										

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PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
M-100-1		STANDARD SYMBOLS (3 SHEETS).....	1-3
M-100-2		ACRONYMS AND ABBREVIATIONS (4 SHEETS).....	4-7
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M-203-2		DITCH TYPES.....	9
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M-208-1	<input checked="" type="checkbox"/>	TEMPORARY EROSION CONTROL (11 SHEETS) (REVISED ON MARCH 29, 2016).....	19-30
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M-216-1	<input type="checkbox"/>	SOIL RETENTION COVERING (2 SHEETS) (NEW ON JULY 16, 2015).....	
M-412-1	<input type="checkbox"/>	CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 24, 2012).....	34-38
M-510-1		STRUCTURAL PLATE PIPE H-20 LOADING.....	39
M-601-1	<input checked="" type="checkbox"/>	SINGLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015).....	40-41
M-601-2	<input type="checkbox"/>	DOUBLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015).....	42-43
M-601-3	<input type="checkbox"/>	TRIPLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015).....	44-45
M-601-10		HEADWALL FOR PIPES.....	46
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M-601-12		HEADWALLS AND PIPE OUTLET PAVING.....	48
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M-603-1	<input type="checkbox"/>	METAL PIPE (4 SHEETS). (REVISED ON OCTOBER 02, 2014).....	50-53
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M-603-3		PRECAST CONCRETE BOX CULVERT.....	55
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M-603-5	<input type="checkbox"/>	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) (REVISED ON OCT. 02, 2014).....	57
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M-607-4	<input type="checkbox"/>	DEER FENCE, GATES, AND GAME RAMPS (5 SHEETS).....	107-109
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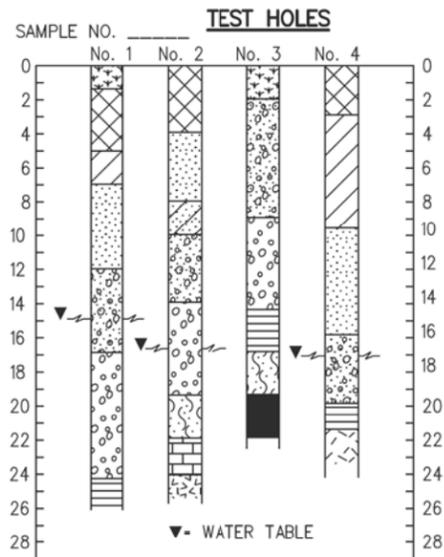
PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
S-612-1		DELINEATOR INSTALLATIONS (7 SHEETS).....	151-157
S-614-1	<input checked="" type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS) (REVISED ON DECEMBER 12, 2014).....	158-159
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S-614-3		CLASS II SIGNS.....	161
S-614-4	<input type="checkbox"/>	CLASS III SIGNS (3 SHEETS) (REVISED ON DECEMBER 17, 2014).....	162-164
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S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS) (REVISED ON SEPTEMBER 16, 2013).....	167-168
S-614-8	<input type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (6 SHEETS).....	169-173
S-614-9	<input type="checkbox"/>	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (REVISED ON MAY 24, 2016).....	174
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S-614-40	<input type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS) (REVISED ON JUNE 17, 2016).....	184-188
S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS) (REVISED ON JUNE 17, 2016).....	189-192
S-614-41	<input type="checkbox"/>	TEMPORARY SPAN WIRE SIGNALS (REVISED ON APRIL 2, 2015).....	193
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COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on June 24, 2016

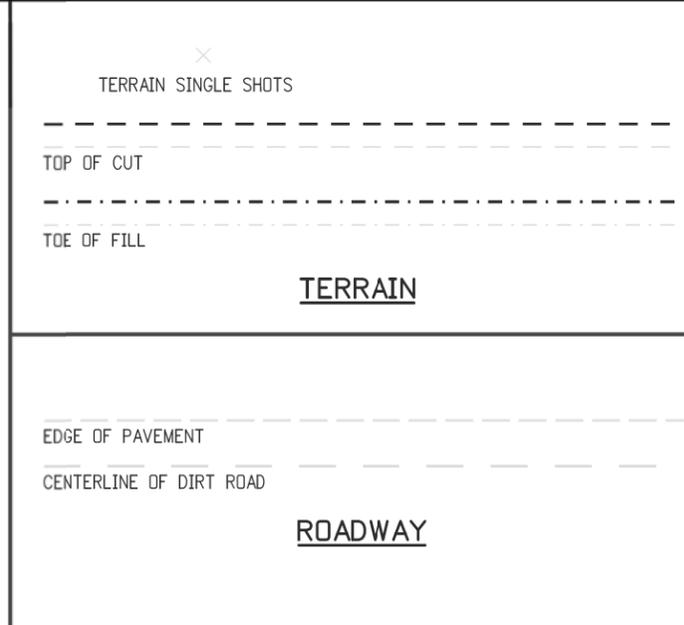
ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

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- LEGEND**
- TOPSOIL
 - OVERBURDEN
 - CLAY
 - SILT
 - SAND
 - GRAVEL
 - SHALE
 - LIMESTONE
 - SANDSTONE
 - SOLID ROCK (IGNEOUS)
 - SOLID ROCK (METAMORPHIC)
 - COAL
 - SANDY CLAY
- COMPOSITE MATERIALS ARE REPRESENTED BY COMBINATIONS OF THE ABOVE SYMBOLS, SUCH AS:



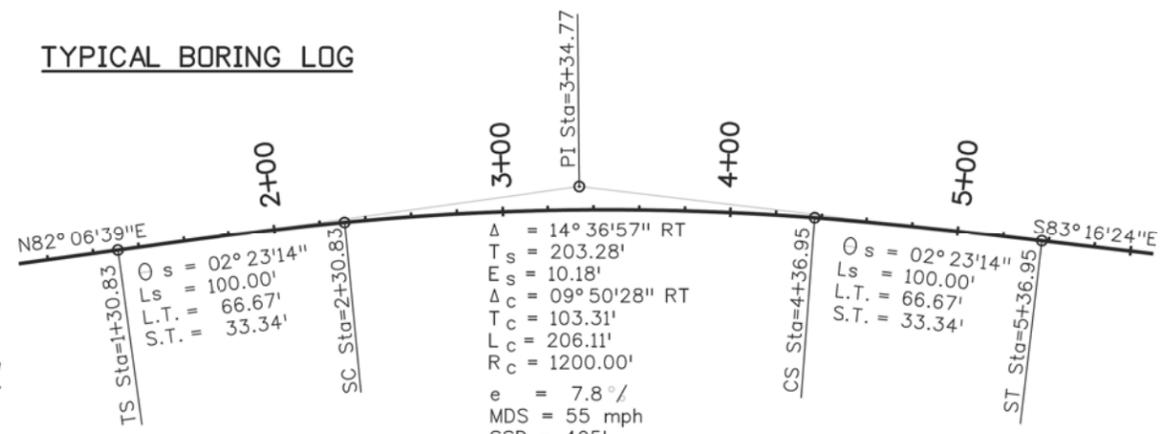
TYPICAL BORING LOG



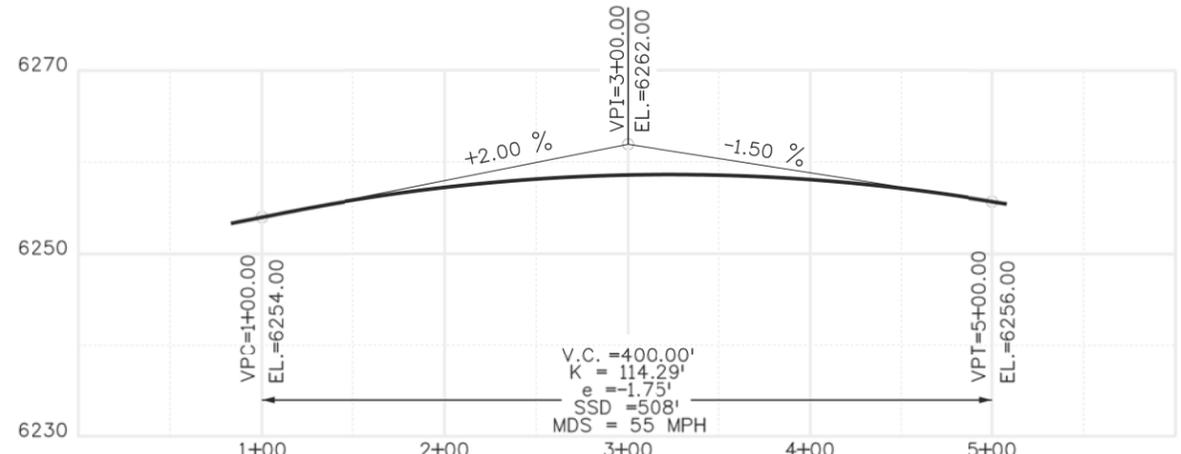
- BRIDGES**
- PROPOSED
 - EXISTING
- PROPERTY PIN**
- FED
 - WC
 - WC
 - BM
 - USGS
- FEDERAL MONUMENT WITNESS CORNER BENCH MARK USGS MARKER
- LOCAL OR PLSS MONUMENT SECONDARY CONTROL MONUMENT RIGHT OF WAY MARKER
- PROJECT CONTROL MONUMENT
- N 9.88
E 3.81
EL 0.00

GENERAL NOTES

- EXISTING FEATURES SHOWN AS SCREENED WEIGHT (LIGHT GRAY SCALE), EXCEPT AS NOTED WITH THE WORD (EXISTING). PROPOSED OR NEW FEATURES SHOWN AS FULL WEIGHT WITHOUT SCREENING, EXCEPT AS NOTED WITH THE WORD (PROPOSED).
- THESE SYMBOLS ARE INTENDED TO EXPLAIN THE VARIOUS TOPOGRAPHIC FEATURES INVOLVED ON THE DESIGN PLAN SHEETS WHICH ARE PREPARED AT VARIOUS SCALES. NOTES ARE ADDED WHERE NECESSARY TO CLARIFY THE SYMBOL. A LEGEND IS PROVIDED IN THE PLANS FOR SYMBOLS NOT SHOWN ON THE STANDARD SYMBOLS SHEETS.
- GUARDRAIL, CURB AND GUTTER, ETC., ARE REPRESENTED BY A SYMBOL WITH TYPE GIVEN BY NOTE.



TYPICAL HORIZONTAL CURVE



TYPICAL VERTICAL CURVE

- PERMANENT, PROPERTY, SLOPE, & UTILITY EASEMENT LINE
- TEMPORARY EASEMENT LINE (EXISTING)
- PROPERTY BOUNDARY LINE (EXISTING AND PROPOSED)
- RIGHT OF WAY LINE
- VIRGIN RIGHT OF WAY LINE (PROPOSED)
- CITY LIMIT LINE (EXISTING)
- COUNTY LINE (EXISTING)
- QUARTER SECTION LINE
- SECTION LINE
- SIXTEENTH SECTION LINE
- STATE LINE (EXISTING)
- TOWNSHIP LINE (EXISTING)

SURVEY/ROW

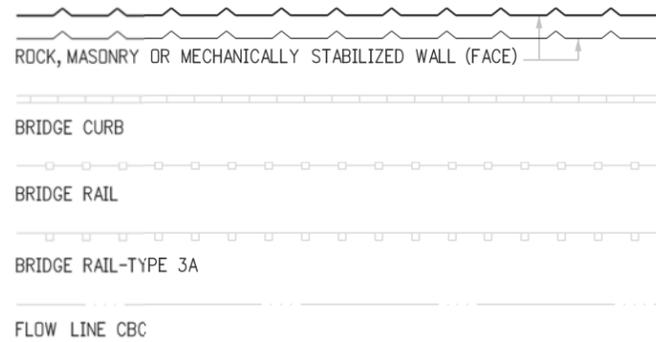
- BACK OF CURB
- TOP OF CURB
- FLOW LINE (FL)
- EDGE OF PAVEMENT
- CURB AND GUTTER
- CURB AND GUTTER-TYPE 2, 4 OR 6
- GUTTER
- CURB CUT

CURB AND GUTTER

- GUARDRAIL END ANCHOR
- GUARD POST
- GUARDRAIL-TYPE 3 OR 6
- GUARDRAIL-TYPE 4 OR 7
- GUARDRAIL-TYPE 5 OR HANDRAIL

GUARDRAIL

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STRUCTURE



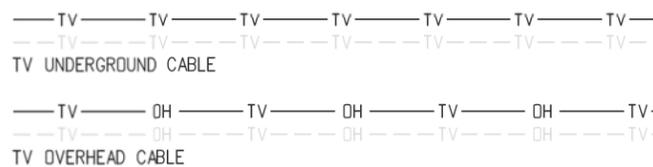
LIGHTING



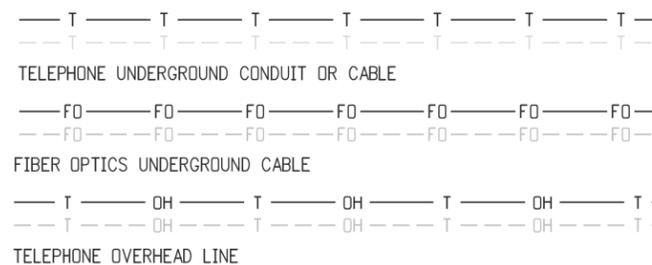
BUILDING STRUCTURES



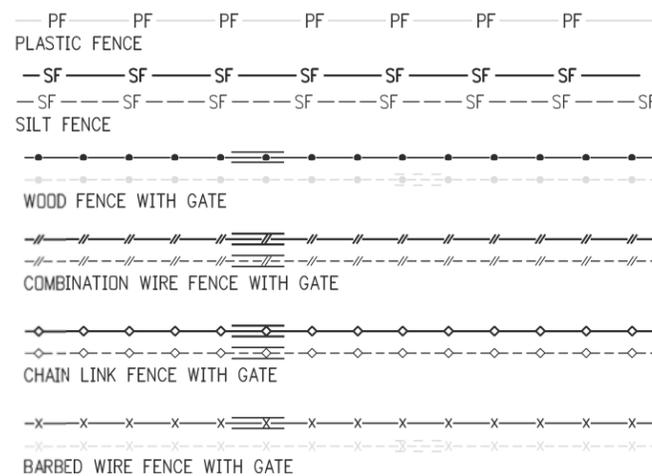
LANDSCAPING



TELEVISION



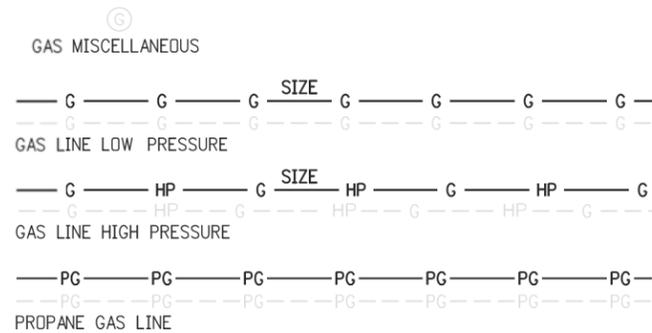
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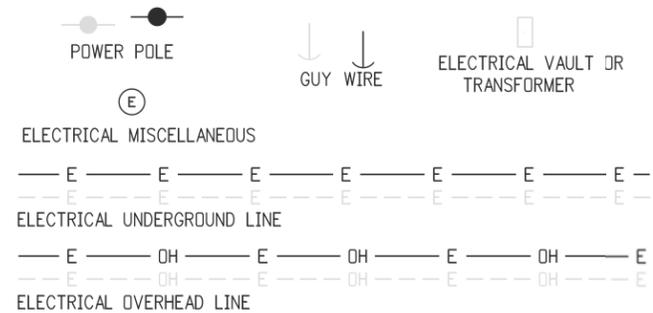
FENCE



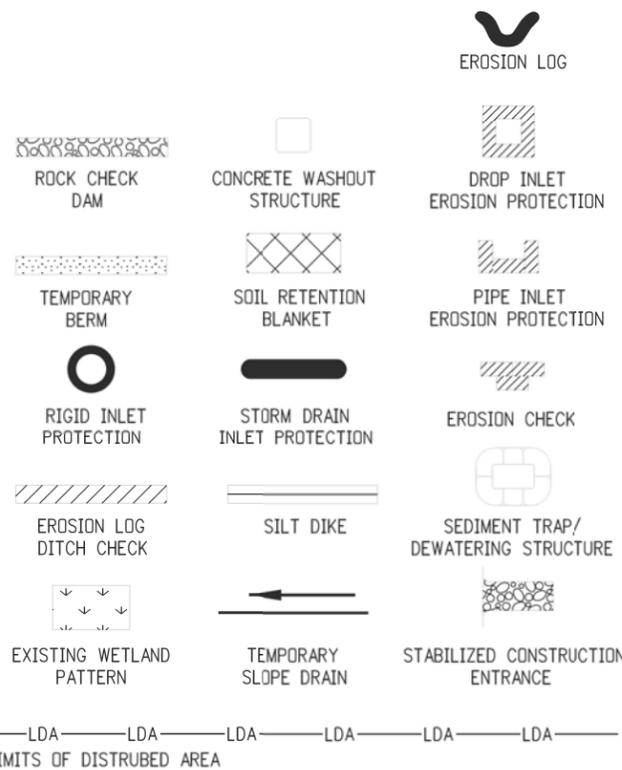
TRAFFIC STRIPING



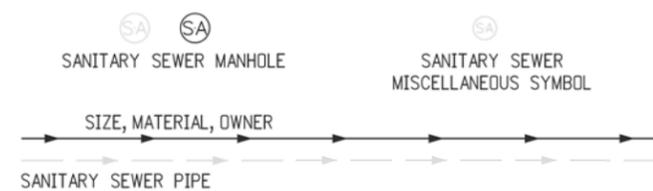
GAS



ELECTRICAL



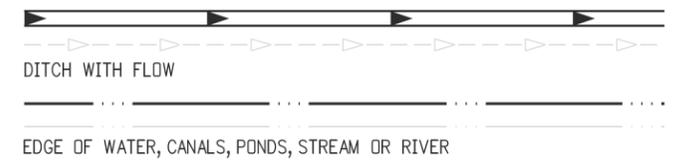
SANITARY SEWER



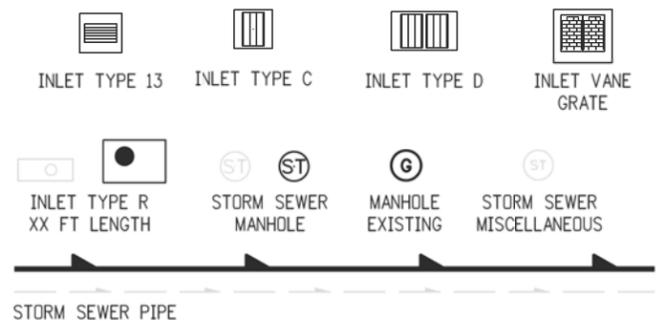
PIPES



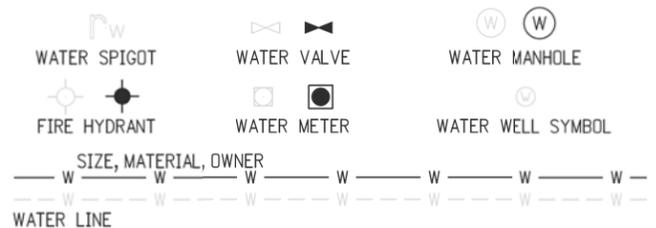
TRAFFIC CONTROL



DITCHES AND WATERWAY



STORM SEWER



WATER

60% SET

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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

 DESIGNED: **MEM** CAD: **EAV** CHECKED: **DTW** DATE: **08/30/16**

FOURMILE CANYON DR
STANDARD SYMBOLS
(2 OF 2)
 PROJECT NO: 4043.SEPT12C36 SHEET NO: 4

GENERAL NOTES:

- THE INTENT OF THIS CONTRACT IS TO RESTORE THE AREA AFFECTED BY THE 2013 FLOOD TO PRE- FLOOD CONDITIONS AND AS MODIFIED BY THESE PLANS.
- PROJECT BENCHMARK: ALL ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO THE PROJECT BENCHMARKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING THE PROJECT BENCHMARKS AND OTHER SURVEY MONUMENTS. DAMAGED MONUMENTS SHALL BE REESTABLISHED AND REPLACED BY THE LICENSED LAND SURVEYOR AT THE EXPENSE OF THE PARTY RESPONSIBLE FOR THE DAMAGE.
- GEOTECHNICAL INFORMATION FOR THIS PROJECT IS BASED UPON THE GEOTECHNICAL INVESTIGATION REPORT BY YEH AND ASSOCIATES, DATED JULY 8, 2014. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.
- FOR PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
HOT MIX ASPHALT.....@ 110 LBS./SQ.YD./INCH
AGGREGATE BASE COURSE CLASS 6.....@ 133 LBS./CU.FT.
TACK COAT DILUTED EMULSIFIED ASPHALT.....@ 0.10 GALS/SQ.YD. (DILUTED)
- BOULDER COUNTY SHALL OBTAIN THE BOULDER COUNTY FLOODPLAIN DEVELOPMENT PERMIT. THE CONTRACTOR SHALL OBTAIN, AT THEIR EXPENSE, ALL OTHER PERMITS REQUIRED TO PERFORM THE PROPOSED WORK PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2011; AND AS SUBSEQUENTLY REVISED; THE CDDT STANDARD PLANS M&S STANDARDS DATED JULY, 2012 AND REVISED; AND THE BOULDER COUNTY MULTI-MODAL TRANSPORTATION STANDARDS; AND THE BOULDER COUNTY STORM DRAINAGE CRITERIA MANUAL.
- THE CONTRACTOR SHALL HAVE: ONE (1) SIGNED COPY OF THE PLANS ACCEPTED BY THE BOULDER COUNTY ENGINEER, ONE (1) COPY OF THE CONSTRUCTION SPECIFICATIONS FOR THE PROJECT, ONE (1) COPY OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLANS (M&S STANDARDS), AND ONE (1) COPY OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH BOULDER COUNTY AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION. THOSE IN ATTENDANCE SHALL INCLUDE ENGINEER, CONTRACTOR AND ANY OTHER AFFECTED AGENCIES. CONSTRUCTION PLANS WILL BE DISTRIBUTED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTORS NEED TO USE THE DESIGN PLANS IN CONJUNCTION WITH THE DIGITAL TERRAIN MODEL (DTM). IN THE EVENT OF A CONFLICT, DESIGN PLANS SHALL ALWAYS GOVERN OVER DATA FROM THE DTM.
- IN THE EVENT THE CONTRACTOR ALLOWS, AUTHORIZES, APPROVES OR CONSTRUCTS ITEMS THAT DIFFER FROM THE APPROVED PLANS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, WITHOUT WRITTEN APPROVAL BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LIABILITY ARISING FROM SUCH CHANGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, AND ANY OTHER NEEDED ACTION TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROTECTION OF PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED ONLY TO WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE ENGINEER AND THE GOVERNING JURISDICTION HARMLESS FOR ANY AND ALL LIABILITY, IN CONNECTION WITH THE PERFORMANCE OF WORK, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER OR THE GOVERNING JURISDICTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IN THE EVENT OF A DISCREPANCY BETWEEN CRITERIA PRIOR TO CONSTRUCTION.

GENERAL NOTES CONT'D:

- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL CONTAIN ALL WORK WITHIN THE RIGHT OF WAY AND TEMPORARY OR PERMANENT EASEMENTS AS SHOWN ON THE PLANS AND CROSS SECTIONS (ROW SHOWN ON PLANS IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD). ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT CONTRACTOR'S OWN EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- UNLESS OTHERWISE INDICATED ON THE PLANS, THE DECISION TO BRACE, SHORE AND/OR SHEET PILE FOR STRUCTURE EXCAVATION SHALL BE ENTIRELY THE CONTRACTOR'S RESPONSIBILITY AND WILL BE INCLUDED IN THE COST OF LABOR. HOWEVER, IF THE ENGINEER IS OF THE OPINION THAT AT ANY POINT THE TRENCH WALLS ARE NOT PROPERLY SUPPORTED; THE ENGINEER MAY ORDER THE PLACEMENT OF ADDITIONAL SUPPORTS BY AND AT THE EXPENSE OF THE CONTRACTOR. COMPLIANCE WITH SUCH ORDER SHALL NOT RELIEVE OR RELEASE THE CONTRACTOR FROM RESPONSIBILITIES FOR THE SAFETY OF THE WORK. ALL WORK SHALL BE IN ACCORDANCE WITH ALL STATE AND FEDERAL OSHA REGULATIONS. THE CONTRACTOR SHALL TAKE NOTE THAT EXISTING UTILITIES NEAR THE PROPOSED EXCAVATION SHALL BE PROTECTED DURING CONSTRUCTION. TEMPORARY SHORING IS RECOMMENDED TO LIMIT TRENCH WIDTH AND POTENTIAL DAMAGE TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DEWATERING IF NEEDED AT NO ADDITIONAL COSTS TO THE PROJECT. DEWATERING METHODS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION DEWATERING PERMIT FOR ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT (1-800-922-1987) OR 811 FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY OTHER APPLICABLE UTILITY COMPANIES AS WELL TO OBTAIN FIELD LOCATES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS WERE TAKEN FROM THE RECORDS OF THE CONTROLLING AGENCIES OR FROM AGENCY MARKINGS IN THE FIELD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR COMPLETENESS OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES AND PARTICIPATE IN THE RESOLUTION OF ANY CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY USING EVERY REASONABLE MEANS, INCLUDING FIELD LOCATION OF THE UTILITY. REPAIR OF DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DOCUMENT THE CONDITION OF EXISTING UTILITIES (VISIBLE FACILITIES) WITH THE ENGINEER AND UTILITY REPRESENTATIVES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR MUST KEEP ALL EQUIPMENT OPERATION A MINIMUM OF 10 FEET FROM EXISTING OVERHEAD ELECTRIC LINES. IF THIS IS NOT FEASIBLE, OR CONDITIONS WARRANT ADDITIONAL PROTECTION OR POLE STABILIZATION, THE CONTRACTOR MUST CONTACT THE UTILITY OWNER TO ARRANGE PROTECTIVE COVERING AND POLE STABILIZATION. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- ALL EXISTING UTILITY FACILITIES TO REMAIN IN PLACE WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED BY THE CONTRACTOR.
- THE SULFATE EXPOSURE CLASS FOR THIS PROJECT IS CLASS 0. SEE SECTION 601 - STRUCTURAL CONCRETE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING NEARBY PUBLIC OR PRIVATE STREETS OF MUD AND DEBRIS, DUE TO CONSTRUCTION ACTIVITIES, ON A DAILY BASIS OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF OTHER WORK.
- IT IS ANTICIPATED THAT ONE (1) LUMP SUM (LS) ITEM 625 CONSTRUCTION SURVEYING SHALL BE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH SPECIFICATIONS 625 AND 629. ALONG WITH OTHER DUTIES SPECIFIED IN THE PLANS AND SPECIFICATIONS, THE SURVEYOR SHALL STAKE ALL EASEMENTS AND BOULDER COUNTY RIGHT OF WAY FIRST.

GENERAL NOTES CONT'D:

- STATIONING LATH WILL BE REMOVED AS DIRECTED AND AT NO ADDITIONAL COST TO THE PROJECT.
- IT IS ANTICIPATED THAT PUBLIC INFORMATION SERVICES WILL BE REQUIRED FOR THIS PROJECT AND BE PROVIDED BY THE COUNTY.
- THE FOLLOWING ITEMS ARE REQUIRED:
ITEM NO. 201-00000 CLEARING AND GRUBBING 1 (LUMP SUM)
ITEM NO. 203-01100 PROOF ROLLING 10 (HOUR)
ITEM NO. 203-01597 POTHOLING 10 (HOUR)
ITEM NO. 217-00020 HERBICIDE TREATMENT 16 (HOUR)
ITEM NO. 240-00000 WILDLIFE BIOLOGIST 10 (HOUR)
ITEM NO. 240-00010 REMOVAL OF NESTS 20 (HOUR)
ITEM NO. 620-00002 FIELD OFFICE (CLASS 2) 1 (EACH)
ITEM NO. 620-00020 SANITARY FACILITY 1 (EACH)
ITEM NO. 626-00000 MOBILIZATION 1 (LUMP SUM)
ITEM NO. 626-01000 PUBLIC INFORMATION SERVICES 1 (LUMP SUM)

MAINTENANCE OF THE SANITARY FACILITY SHALL INCLUDE CLEANING AT LEAST TWICE A WEEK.
- NOTE: ALL ITEMS LISTED AND DESCRIBED HEREIN AS REQUIRED FOR THE COMPLETION OF THE PROJECT SHALL BE PLACED AS DIRECTED BY THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL REMOVE DEBRIS AS NEEDED FOR CONSTRUCTION OF THE PROJECT. ALL WORK ASSOCIATED WITH THIS CONSTRUCTION ACTIVITY WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CLEARING AND GRUBBING IN ITEM 201.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE EXISTING VEGETATION INSIDE AND OUTSIDE THE PROJECT LIMITS. THE CONTRACTOR SHALL FENCE ALL VEGETATION TO BE UNDISTURBED PRIOR TO COMMENCING WORK. ANY COST INCURRED FOR DAMAGE OF SUCH MATERIAL DUE TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PAVEMENT CONSTRUCTION NOTES:

- DILUTED EMULSIFIED ASPHALT FOR THE TACK COAT SHALL CONSIST OF 1 PART WATER AND 1 PART EMULSIFIED ASPHALT. RATES OF APPLICATION SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION. TACK COAT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CONSTRUCTION.
- ANY LAYER OF HOT MIX ASPHALT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- ASPHALT JOINTS SHALL FALL ON LANE LINES, SHOULDER LINES OR MEDIAN LINES, EXCEPT WHERE STATED IN THE PLANS.
- PRIOR TO PLACING HOT MIX ASPHALT, THE PAVED SURFACE SHALL BE SWEEP AND CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE HOT MIX ASPHALT PAVEMENT ITEMS.
- THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF 1 DAY. THE JOINT SHALL CONSIST OF A VERTICAL FACE 1 INCH DEEP, AND AT THE BOTTOM OF THE VERTICAL FACE, A 3:1 SLOPE TO EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SLOPE SHALL BE 2 INCHES. AT THE END OF THE FOLLOWING DAY, PLACEMENT OF THE HMA ON THE ADJACENT LANE IS REQUIRED.
- THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
A. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
B. SHORT SKI OR SHOE
C. 1500 FEET OF CONTROL LINE AND STAKES
- EMULSIFIED ASPHALT, IF REQUIRED, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

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60% SET	 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	REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:										 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: MEM</td> <td>CAD: EAV</td> <td>CHECKED: DTW</td> <td>DATE: 08/30/16</td> </tr> </table>	DESIGNED: MEM	CAD: EAV	CHECKED: DTW	DATE: 08/30/16	FOURMILE CANYON DR GENERAL NOTES (1 OF 3) PROJECT NO: 4043.SEPT12C36 SHEET NO: 5
NO.	DATE	REVISION DESCRIPTION:																			
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EARTHWORK/GRADING NOTES:

- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
BASES OF CUTS AND FILLS - 1 FOOT
FULL DEPTH OF ALL EMBANKMENTS ON THIS PROJECT.
- EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- GRADING WILL BE INSPECTED BY AN OWNER'S REPRESENTATIVE DURING ALL EXCAVATIONS TO EVALUATE CHANGING CONDITIONS.
- TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-180. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

DRAINAGE NOTES:

- ALL PIPE LENGTHS ARE GIVEN AND PAID FOR IN THE HORIZONTAL DIMENSION, AND HAVE BEEN ROUNDED TO THE NEAREST FOOT. THE CONTRACTOR SHALL SUPPLY THE ADDITIONAL LENGTH OF PIPE TO ACCOUNT FOR SLOPES AND INCLUDED IN THE COST OF THE WORK. THE PIPE LENGTHS PROVIDED DO NOT INCLUDE THE LENGTH OF FLARED END SECTIONS.
- ALL DOWNSTREAM CONCRETE FLARED END SECTIONS MUST BE INSTALLED WITH JOINT FASTENERS. IN ADDITION, JOINT FASTENERS SHALL BE INSTALLED ON ALL PIPE JOINTS WITHIN 15- FEET OF THE DOWNSTREAM END OF ALL CULVERTS.
- ALL PIPE MATERIAL SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE SPECIFIED. STRENGTH CLASS OF ALL RCP SHALL BE IN ACCORDANCE WITH CDOT M-603-2 AND SECTION 706.02 OF THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND DIVERSION INCLUDING, BUT NOT LIMITED TO, LIVE STREAM FLOW AND GROUNDWATER. THE CONTRACTOR SHALL OBTAIN THE APPLICABLE DEWATERING PERMIT FOR CONSTRUCTION AT THE SITE. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
- THE CONTRACTOR IS REQUIRED TO KEEP EXISTING CULVERTS FUNCTIONAL AND MAINTAIN PROPER STORMWATER CONVEYANCE UNTIL THE PROPOSED DRAINAGE FACILITIES ARE CONSTRUCTED AND FUNCTIONING PROPERLY. EXISTING CULVERT LOCATIONS FOR REMOVAL AND/OR ABANDONMENT ARE CALLED OUT ON THE PLANS. EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NON CDOT/BOULDER COUNTY STANDARD DRAINAGE STRUCTURES FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE STRUCTURE.
- THE INFORMATION PROVIDED ON THE DRAINAGE PLAN SET REPRESENTS THE FINAL STORM DRAIN SYSTEM AND CULVERTS.
- OTHER UTILITIES MAY BE CROSSED OR OTHERWISE IMPACT DRAINAGE CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE. UNLESS NOTED OTHERWISE, PROTECTION OF EXISTING UTILITIES, INCLUDING INCIDENTAL SHORING, WILL NOT BE MEASURED OR PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- CONCRETE TOE WALLS SHALL BE REQUIRED AS INDICATED IN THE PLANS. TOE WALLS WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PIPE SIZES, LENGTHS AND LOCATIONS PRIOR TO ORDERING AND DELIVERY OF THE PIPE MATERIAL TO THE SITE.

SIGNING AND PAVEMENT MARKING NOTES:

POSTS:

- SIGN POSTS SHALL BE 2"x2"x10" (14 GAUGE) GALVANIZED PERFORATED SQUARE STEEL TUBING. SIGN POST BASES SHALL BE 2 1/4" x 2 1/4" (12 GAUGE, 3' IN LENGTH) GALVANIZED PERFORATED SQUARE STEEL TUBING.
- SIGN POST BASES SHALL BE 2 1/4" x 2 1/4" (12 GAUGE, 3' IN LENGTH) GALVANIZED PERFORATED SQUARE STEEL TUBING.
- BASES SHALL BE INCLUDED IN THE COST FOR SIGN POSTS. TOP OF BASES SHALL BE 3" ABOVE FINISHED GRADE. THE SIGN POST SHALL BE INSTALLED 4" IN TO THE BASE AND BOLTED BOTH WAYS.

SIGNING & PAVEMENT MARKING NOTES CONT'D:

- SIGN POST LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ROAD MAINTENANCE SIGN SHOP REPRESENTATIVE PRIOR TO INSTALLATION.
- POST LOCATIONS IN CONCRETE MEDIAN OR ISLANDS SHALL HAVE 6" PVC INSTALLED PRIOR TO POURING CONCRETE.

SIGNS:

- THICKNESS OF ALL SIGN PANELS SHALL BE 0.100".

PAVEMENT MARKINGS:

- FINAL PAVEMENT STRIPING SHALL BE EPOXY PER CDOT STANDARD SPECIFICATIONS.
- ALL STOP LINES, CROSSWALKS AND PAVEMENT MARKING SYMBOLS SHALL BE WHITE, PREFORMED THERMOPLASTIC, PREMARK OR EQUIVALENT.
- STOP LINES SHALL BE 2' WIDE; CROSSWALKS SHALL BE 2' x 9', UNLESS OTHERWISE NOTED.
- PAVEMENT MARKING ARROWS SHALL BE ELONGATED.
- BICYCLE DETECTOR PAVEMENT MARKINGS SHALL BE PER MUTCD FIG. 9C-7 B WITH HELMETED BICYCLE SYMBOL.
- PAVEMENT MARKINGS FOR BIKE LANES SHALL BE PER MUTCD FIG. 9C-3 B WITH HELMETED BICYCLE SYMBOL.
- PREFORMED THERMOPLASTIC INSTALLATION ON CONCRETE SHALL HAVE THE CONCRETE CURE REMOVED PRIOR TO INSTALLATION OR A BONDING AGENT APPLIED TO THE CONCRETE BEFORE INSTALLATION. INSTALLATION SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT (MBTA) AND THE BALD AND GOLDEN EAGLE PROTECTION ACT (BGEPA), AT ALL TIMES, INCLUDING CONDUCTING PRE-CONSTRUCTION SURVEYS FOR NESTING BIRDS SET FORTH BY U.S. FISH AND WILDLIFE SERVICE (USFWS). THE CONTRACTOR SHALL SCHEDULE WORK TO AVOID TAKING (PURSUE, HUNT, TAKE, CAPTURE OR KILL; ATTEMPT TO TAKE, CAPTURE, KILL OR POSSESS) MIGRATORY BIRDS PROTECTED BY THE MBTA AND BGEPA. THE INCIDENTAL TAKING OF A MIGRATORY BIRD SHALL BE REPORTED TO USFWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PENALTIES LEVIED BY THE USFWS FOR THE TAKING OF A MIGRATORY BIRD. THE CONTRACTOR SHALL RETAIN A QUALIFIED WILDLIFE BIOLOGIST, WITH A MINIMUM OF THREE YEARS' EXPERIENCE CONDUCTING MIGRATORY BIRD SURVEYS, TO IMPLEMENT THE REQUIREMENTS OF THE MBTA AND BGEPA. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION OF THE BIOLOGIST'S EDUCATION AND EXPERIENCE TO THE ENGINEER FOR ACCEPTANCE PRIOR TO COMMENCEMENT OF ANY ASSOCIATED WORK. A BIOLOGIST WITH LESS EXPERIENCE MAY BE USED BY THE CONTRACTOR SUBJECT TO THE ACCEPTANCE OF THE ENGINEER BASED ON REVIEW OF THE BIOLOGIST'S QUALIFICATIONS. DOCUMENTATION OF THE NEST SURVEYS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- THE WILDLIFE BIOLOGIST RETAINED BY THE CONTRACTOR SHALL COMPLETE RAPTOR NEST SURVEYS TO EVALUATE THE PRESENCE OF ACTIVE RAPTOR NESTS WITHIN THE STUDY AREA. IF AN ACTIVE NEST IS LOCATED IN OR NEAR THE STUDY AREA, THE USFWS AND CPW SHALL BE CONTACTED REGARDING USE OF SEASONAL BUFFERS TO PREVENT DISTURBANCE TO NESTING BIRDS DURING CONSTRUCTION.
- TREE TRIMMING AND/OR REMOVAL ACTIVITIES SHALL BE TIMED TO AVOID THE BREEDING SEASON AND TO AVOID IMPACTS TO ACTIVE BIRD NESTS. IF REQUIRED, TREES SHALL BE CLEARED PRIOR TO FEBRUARY 15 OR AFTER AUGUST 31 TO PREVENT RAPTORS (AND OTHER BIRDS) FROM NESTING ON-SITE AND TO AVOID THE TAKING OF, OR DISTURBANCE TO, ACTIVE NESTS DURING THE BREEDING SEASON. WHERE WORK IS TO BE COMPLETED DURING THE NESTING SEASON, MIGRATORY BIRD SURVEYS WILL BE REQUIRED.
- 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 3, 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 TO MORE THAN SIX (6) INCHES. FAILURE TO MAINTAIN VEGETATION HEIGHT OF SIX (6) INCHES OR LESS MAY POSTPONE PROJECT CONSTRUCTION.
- THE FOLLOWING WEED MANAGEMENT STRATEGIES WILL BE IMPLEMENTED:
 - VEHICLES SHALL BE INSPECTED BEFORE THEY ARE USED FOR CONSTRUCTION TO ENSURE THAT THEY ARE FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS. HEAVY CONSTRUCTION EQUIPMENT SHALL BE CLEANED AND POWER WASHED PRIOR TO USE ON THE PROJECT SITE AND BEFORE LEAVING THE SITE.

ENVIRONMENTAL NOTES CONT'D:

- MATERIAL FOR EROSION BALES, MULCHING, OR COMPOST SHALL CONSIST OF CERTIFIED WEED-FREE MATERIAL. COLORADO CERTIFIED WEED-FREE STRAW IS IDENTIFIED BY BLUE AND ORANGE TWINE BINDING THE BALES (CDOT STANDARD SPECIFICATIONS, PAGE 190). MATERIALS FOR MULCHING SHALL CONSIST OF CERTIFIED WEED-FREE STRAW OF OATS, BARLEY, WHEAT OR TRITICALE CERTIFIED UNDER THE CDA WEED-FREE FORAGE CERTIFICATION PROGRAM (CDOT STANDARD SPECIFICATIONS, PAGE 231). IN ADDITION, CERTIFIED WEED-FREE STRAW SHALL BE FREE OF CHEATGRASS.
- FERTILIZER WILL NOT BE USED IN SEEDING AREAS BECAUSE IT CAN ENHANCE THE GROWTH OF NOXIOUS WEEDS AT THE EXPENSE OF DESIRED VEGETATION.
- TOPSOIL WILL NOT BE IMPORTED DUE TO THE POTENTIAL FOR SPREAD OF NOXIOUS WEEDS.
- ADDITIONALLY THE PROJECT PROPONENT SHALL WORK WITH THE COUNTY WEED COORDINATOR (STEVE SAUER 303-678-6110) TO DEVELOP A LONG TERM PLAN FOR SUPPRESSING NOXIOUS WEEDS THAT MAY SPROUT AT THE CONSTRUCTION SITE.
- AQUATIC INVASIVE SPECIES MAY BE SPREAD BY CONSTRUCTION EQUIPMENT. SPECIFIC BMPS DEVELOPED BY CPW SHALL BE OBSERVED WHERE PRACTICABLE TO MINIMIZE THE RISK OF SPREADING OF NEW ZEALAND MUD SNAILS, ZEBRA MUSSELS, QUAGGA MUSSELS, WHIRLING DISEASE, AND ANY OTHER AQUATIC INVASIVE SPECIES. SPECIFICALLY, IF HEAVY EQUIPMENT IS USED THAT WAS PREVIOUSLY WORKING IN ANOTHER STREAM, RIVER, LAKE, POND, OR WETLAND ONE OF THE FOLLOWING PROCEDURES WILL BE NECESSARY:
 - REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT (TRACKS, TURRETS, BUCKETS, DRAGS, TEETH, ETC.) AND SPRAY/SOAK EQUIPMENT WITH A SOLUTION OF COMMERCIAL GRADE QUATERNARY AMMONIUM DISINFECTANT COMPOUND CONTAINING AT LEAST 8.0% ACTIVE INGREDIENT DILUTED IN SOLUTION TO ACHIEVE AT LEAST 0.8% CONCENTRATION (ROUGHLY 12 OUNCES OF PRODUCT PER GALLON OF WATER). SPECIFICALLY, A 1:15 SOLUTION OF QUAT 4 OR SUPER HDQ NEUTRAL INSTITUTIONAL CLEANER AND WATER, CAN BE USED FOR EFFECTIVE TREATMENT. TREATED EQUIPMENT SHOULD BE KEPT MOIST FOR AT LEAST 10 MINUTES, MANAGING RINSATE AS A SOLID WASTE IN ACCORDANCE WITH LOCAL, COUNTY, STATE, OR FEDERAL REGULATIONS, OR
 - REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT (TRACKS, TURRETS, BUCKETS, DRAGS, TEETH, ETC.) AND SPRAY/SOAK EQUIPMENT WITH WATER HOTTER THAN 140 DEGREES FAHRENHEIT FOR AT LEAST 10 MINUTES.
 - CLEAN HAND TOOLS, BOOTS, AND ANY OTHER EQUIPMENT THAT WILL BE USED IN THE WATER WITH ONE OF THE ABOVE OPTIONS AS WELL. DO NOT MOVE WATER FROM ONE WATER BODY TO ANOTHER. BE SURE EQUIPMENT IS DRY BEFORE USE.
- IN ORDER TO COMPLY WITH THE ENDANGERED SPECIES ACT (ESA), THE FOLLOWING CONSERVATION MEASURES SHALL BE IMPLEMENTED FOR THE DURATION OF THE PROJECT TO PREVENT AND OFFSET ANY AFFECTS THE PROPOSED ACTION MAY HAVE ON FEDERALLY LISTED PREBLE'S MEADOW JUMPING MOUSE, UTE LADIES'-TRESSES, COLORADO BUTTERFLY PLANT, AND OTHER BIOLOGICAL RESOURCES.
 - THE USFWS WILL BE CONTACTED BY TELEPHONE AT (303) 236-4773, IF ANY LISTED SPECIES ARE ENCOUNTERED DURING CONSTRUCTION.
 - VEGETATION WILL NOT BE REMOVED OR DISTURBED DURING THIS PROJECT, EXCEPT FOR AREAS WITHIN THE PLANNED LIMITS OF DISTURBANCE. THESE AREAS SHALL BE RESEEDING IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
 - EQUIPMENT WILL BE OPERATED AND MAINTAINED WITHIN PLANNED LIMITS OF DISTURBANCE. THE STAGING AREA SHALL BE LOCATED WITHIN AREAS WHICH HAVE BEEN SEVERELY DISTURBED BY THE FLOODING. AT THE END OF THE PROJECT, GROUND WITHIN THE CONSTRUCTION FOOTPRINT SHALL BE PREPARED, COVERED WITH TOPSOIL, AND RESEEDING.
 - WASTE SHALL BE PROMPTLY REMOVED IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS TO MINIMIZE SITE DISTURBANCE AND AVOID ATTRACTING PREDATORS. THE CONTRACTOR SHALL COVER EXPOSED HOLES OR PILES OF LOOSE DIRT WITH BOARDS, TARPS, OR OTHER MATERIALS TO PREVENT ENTRAPMENT.
 - THE CONTRACTOR SHALL USE THE NATIVE SEED MIX PROVIDED BY BOULDER COUNTY AND USE ONLY WEED FREE CERTIFIED MATERIALS, INCLUDING GRAVEL, SAND, TOP SOIL, SEED AND MULCH. CONSTRUCTION SHALL BE COMPLETED BEFORE ANY RESTORATION/SEEDING EFFORTS BEGIN. RIPRAP BEING INSTALLED TO PROTECT THE CREEK SHALL BE COVERED WITH SOIL AND REVEGETATED WITH A NATIVE SEED MIX TO IMPROVE THE RIPARIAN HABITAT.

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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

NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker
INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
MEM	EAV	DTW	08/30/16

FOURMILE CANYON DR
GENERAL NOTES
(2 OF 3)

PROJECT NO: 4043.SEPT12C36 SHEET NO: 6

ENVIRONMENTAL NOTES CONT'D:

8. WATER-RELATED ACTIVITIES/USE IN THE SOUTH PLATTE RIVER BASIN MAY AFFECT LISTED SPECIES IN NEBRASKA AND THESE ACTIVITIES/USES ARE SUBJECT TO THE PROVISIONS OF THE ESA. THEREFORE, THE CONTRACTOR SHALL NOT USE ON-SITE SOURCES OF WATER FOR ANY CONSTRUCTION ACTIVITY, INCLUDING STORING OR USING ON-SITE WATER FOR DUST ABATEMENT, SOIL COMPACTION, CONCRETE MIXING, OR OTHER ACTIVITIES.
9. THE CONTRACTOR SHALL ENSURE THAT NO MATERIALS, EQUIPMENT, OR VEHICLES ARE STAGED OR PARKED NEAR WETLANDS OR DRAINAGE AREAS, UNLESS SPECIFICALLY ALLOWED AS NOTED IN THE PLANS.
10. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER; THE CONTRACTOR SHALL ADHERE TO THE CONSTRUCTION LIMITS AS NOTED IN THE PLANS AND DEMARCATHE THE WORK AREA TO PREVENT GROUND DISTURBANCE OUTSIDE THOSE PRESCRIBED AREAS.
11. THE CONTRACTOR SHALL REMOVE IN A TIMELY MANNER ALL SEDIMENT, MUD, DEBRIS, OR OTHER POTENTIAL POLLUTANTS WHICH MAY BE DISCHARGED TO, OR ACCUMULATE IN, THE FLOW LINES AND PUBLIC RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
12. ALL EROSION/SEDIMENT CONTROL AND STORMWATER RESPONSIBILITIES SHALL BE IMPLEMENTED AS STATED IN THE SWMP. BIODEGRADABLE HYDRAULIC FLUID SHALL BE USED WHEN WORKING IN OR ADJACENT TO SURFACE WATER AS SPECIFIED BY THE BOULDER COUNTY STORMWATER DRAINAGE CRITERIA.
13. ORANGE PLASTIC FENCING WILL BE USED TO DEFINE NO-WORK AREAS AND TO PROTECT ADJACENT RIPARIAN AREAS AND ENVIRONMENTAL AREAS OF CONCERN.
14. CONTAMINATED MATERIAL, INCLUDING ASBESTOS-CONTAINING SOIL AND PETROLEUM-IMPACTED SOIL AND/OR GROUNDWATER MAY BE ENCOUNTERED DURING PROJECT ACTIVITIES IN THIS AREA. WORKERS SHALL BE ALERT DURING EXCAVATIONS FOR VISUAL AND OLFACTORY SIGNS OF PETROLEUM CONTAMINATION. IF SOIL AND/OR GROUNDWATER CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION, WORK WILL STOP IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) SPECIFICATION 250 AND SUBSECTION 107.25 SHALL BE FOLLOWED. IN THE EVENT THAT SUSPECT ACMS ARE ENCOUNTERED (I.E., DEBRIS WITH BUILDING MATERIALS), WORKERS MUST FOLLOW CDOT SPECIFICATION 250.07 - ASBESTOS -CONTAINING MATERIAL MANAGEMENT AND THE CDOT ASBESTOS-CONTAMINATED SOIL MANAGEMENT STANDARD OPERATING PROCEDURE.
15. IF PALEONTOLOGICAL (E.G., ANIMAL BONES OR FOSSILS) RESOURCES ARE DISCOVERED OR UNCOVERED DURING CONSTRUCTION, WORK WILL STOP IMMEDIATELY AND THE ENGINEER NOTIFIED SO FURTHER ACTIONS MAY BE TAKEN, INCLUDING RETAINING A CERTIFIED PALEONTOLOGIST.
16. IF ANY ARCHAEOLOGICAL RESOURCES ARE FOUND (E.G., ARTIFACTS SUCH AS, BUT NOT LIMITED TO, HISTORIC TRASH LIKE BOTTLES, DISHWARE, HOUSEHOLD OR MINING ITEMS, ETC.; PREHISTORIC STONE TOOLS SUCH AS PROJECTILE POINTS OR OTHER FLAKED STONE ITEMS; OR FEATURES SUCH AS BUILDING FOUNDATIONS, TRAILS, WAGON ROADS, RAILROAD GRADES, STONE WALL REMAINS, MINE ADITS, OR PROSPECT PITS; OR PREHISTORIC FEATURES LIKE HEARTHES, ETC.), WORK WILL BE IMMEDIATELY HALTED IN THE VICINITY OF THE FIND, THE ENGINEER NOTIFIED, AND A CERTIFIED ARCHEOLOGIST WILL BE PROMPTLY NOTIFIED.
17. IF BONES OF POTENTIAL HUMAN ORIGIN ARE DISCOVERED DURING CONSTRUCTION, GROUND-DISTURBING WORK MUST BE STOPPED IN THE VICINITY OF THE DISCOVERY, AND THE COUNTY CORONER, THE COUNTY SHERIFF, THE COLORADO STATE HISTORIC PRESERVATION OFFICER (SHPO), AND THE COLORADO STATE ARCHAEOLOGIST WILL BE PROMPTLY NOTIFIED. WORK CANNOT RESUME IN THE VICINITY OF THE FIND UNTIL CLEARANCE IS GRANTED.
18. ALL EQUIPMENT SHALL BE CLEANED AND FREE OF CONTAMINANTS PRIOR TO WORK IN AND ADJACENT TO FOURMILE CREEK.

60% SET	 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	REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:										 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DESIGNED:</td> <td style="width: 15%;">CAD:</td> <td style="width: 15%;">CHECKED:</td> <td style="width: 15%;">DATE:</td> </tr> <tr> <td style="text-align: center;">MEM</td> <td style="text-align: center;">EAV</td> <td style="text-align: center;">DTW</td> <td style="text-align: center;">08/30/16</td> </tr> </table>	DESIGNED:	CAD:	CHECKED:	DATE:	MEM	EAV	DTW	08/30/16	FOURMILE CANYON DR GENERAL NOTES (3 OF 3) PROJECT NO: 4043.SEPT12C36 SHEET NO: 7
NO.	DATE	REVISION DESCRIPTION:																							
DESIGNED:	CAD:	CHECKED:	DATE:																						
MEM	EAV	DTW	08/30/16																						

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TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

- Format *
- Horizontal Control Plans
 - Vertical Control Plans
 - Roadway Alignment Plans
 - Original Terrain Data _____
 - Other: _____

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: Flood Recovery and Restoration

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- GPS/RTS (Global Positioning System/Robotic Total Station) Construction Machine Control
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
 - Unclassified
 - Stripping
 - Muck
 - Rock
 - Borrow
 - Other: _____
 - Potholing

- Embankment
- Site Grading
- Erosion Control (Perm)
- Other: _____
- As Staked Earthwork Quantities (See General Notes)

- Landscaping
 - Top Soil (Section 207)
 - Seeding (Section 212)
 - Mulching (Section 213)
 - Planting (Section 214)
 - Herbicide (Section 217)
 - Other: Seeding Boundaries

- Erosion Control (Section 208)
 - Seeding (Temp)
 - Silt Fence
 - Erosion Bales
 - Erosion Logs
 - Riprap (Temp)
 - Other: _____

- Roadway Bases
 - Untreated Subgrade
 - Treated Subgrade
 - Aggregate Base Course (Section 304)
 - Reconditioning
 - PMBB - Plant Mix Bituminous Base
 - Other: _____

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	Y	N	Y	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Embankment	Y	N	Y	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
-	-	-	-	-
N	Y	-	-	-
-	-	-	-	-
-	-	-	-	-

- Pavements
 - HMA - Hot Mix Asphalt (Section 403)
 - Concrete (Section 412)
 - Heating & Scarifying Treatment
 - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 - Seal Coat or Chip Seal (Section 409)
 - Other: _____

Pavements	Grid (Y/N)	Special Interval	Special Offset
N	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

- Roadway Elements
 - Curb and Gutter (Section 609)
 - Drop inlets - alignment and grades (Section 604)
 - Retaining Walls
 - Guard Rail (Section 606)
 - Sidewalk (Section 608)
 - Overlay Stationing
 - Other: Fire Department Pullouts

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
-	-	-	-

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

Stationing	Left Interval	Center Interval	Right Interval
-	-	-	-

- Minor Structures
 - Structure Excavation limits (Section 206)
 - Culverts (Section 603)
 - Culverts w/ Headwalls and Wingwalls (Section 601)
 - Concrete Box Culverts w/ Headwalls and Wingwalls
 - Pipes (Section 603)
 - Sanitary Sewer
 - Storm Sewer
 - Water
 - Irrigation
 - Miscellaneous
 - Manholes (Section 604)
 - Inlets (Section 604)
 - Permanent Water Quality BMP (Section 208)
 - Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 - Structure Excavation limits (Section 206)
 - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 - Piling locations and cut off elevations (Section 502)
 - Caisson locations and elevations (Section 503)
 - Footing locations, alignment, and elevations
 - Abutment/Pier locations, alignment, and elevations
 - Wingwall skew angles/offsets
 - Structural concrete form locations
 - Substructure As-constructed survey required for Bridges (Subsection 601.12) and Overhead signs (S-614-50)
 - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 - Deck grades at Girder 10th or "n" th point locations and elevations
 - Slope and Ditch Paving (Section 507)
 - Other: Retaining Walls, Moment Slab

- Fencing (Section 607)
 - Temporary
 - Permanent
 - Sound Barrier
 - Other: _____

- Delineators (Section 612)
 - Temporary
 - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 - Signal pole locations and elevations
 - Light pole locations and elevations
 - Sign locations
 - Field verify sign post locations, elevations, and lengths before fabrication.
 - Other: _____

- Pavement Marking (Section 627)
 - Striping (Temp)
 - Striping (Perm)
 - Symbols
 - Other: _____
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
 - Signal pole locations and elevations (Temp)
 - Light pole locations and elevations (Temp)
 - Sign Locations (Temp)
 - Other: _____
- All Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 - Control
 - Right of Way
 - Land corners, Aliquot corners
 - Easements
 - Reference the specified existing monuments: ** _____
 - Replace the specified existing monuments: ** _____
 - Locate monuments. It is estimated _____ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

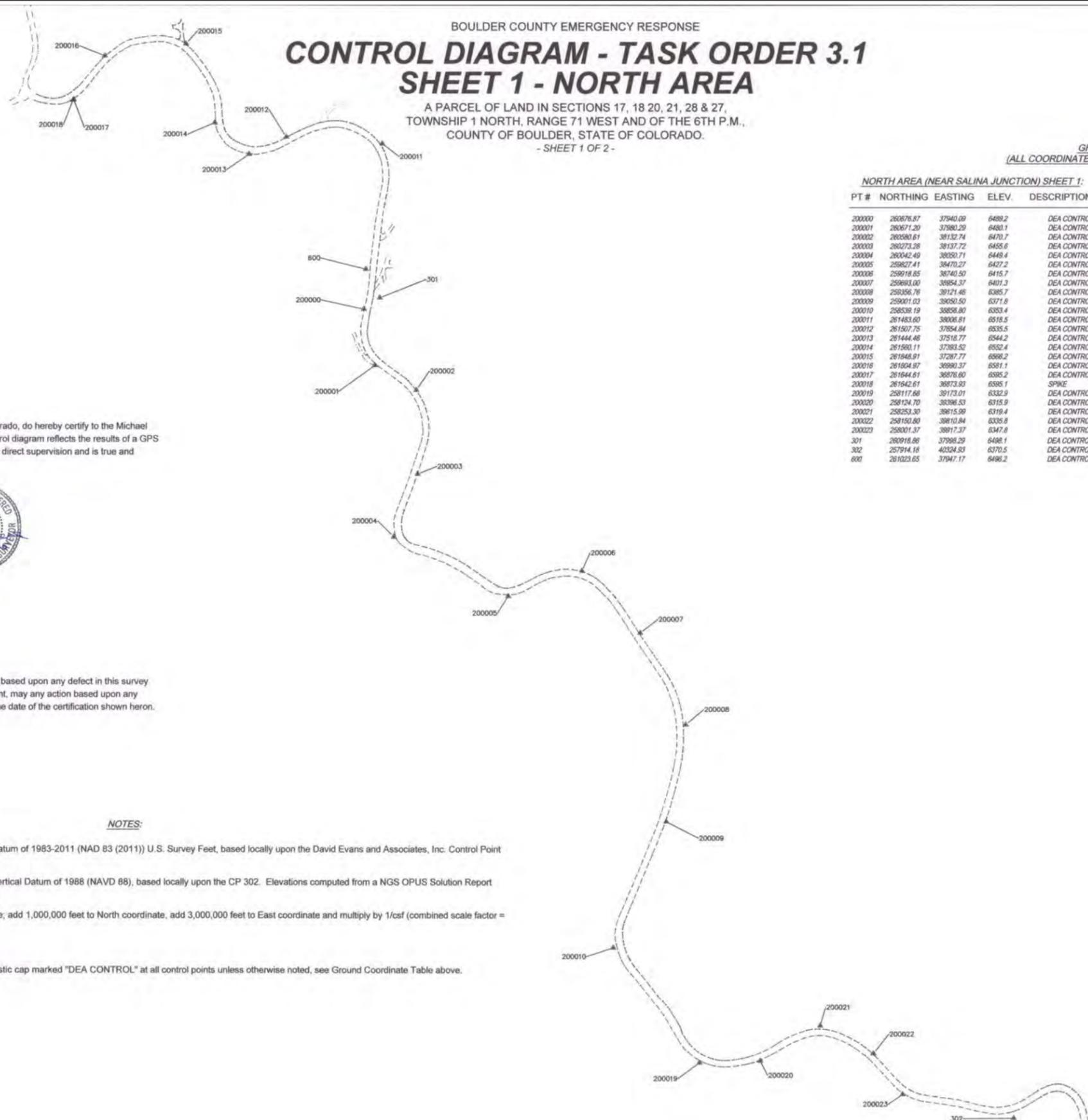
- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 3 days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or GPS/RTS Construction Machine Control) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or GPS/RTS Construction Machine Control) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - Horizontal Control (Primary & Secondary)
 - Vertical Control (i.e. Benchmarks)
 - Property Pin Ties
 - Horizontal Alignment
 - Grading
 - Slope Staking
 - Minor Structures
 - Major Structures
 - One fieldbook for each work category shown on this sheet
 - Other Fieldbook(s): _____

60% SET	 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	REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:										 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED: DEA CAD: DEA CHECKED: DATE: 08/30/16	FOURMILE CANYON DR SURVEY TABULATION PROJECT NO: 4043.SEPT12C36 SHEET NO: 8
NO.	DATE	REVISION DESCRIPTION:															

BOULDER COUNTY EMERGENCY RESPONSE CONTROL DIAGRAM - TASK ORDER 3.1 SHEET 1 - NORTH AREA

A PARCEL OF LAND IN SECTIONS 17, 18 20, 21, 28 & 27,
TOWNSHIP 1 NORTH, RANGE 71 WEST AND OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO.

- SHEET 1 OF 2 -



GROUND COORDINATE TABLE
(ALL COORDINATES AND ELEVATIONS ARE U.S. SURVEY FEET)

NORTH AREA (NEAR SALINA JUNCTION) SHEET 1:					SOUTH AREA (NEAR HWY 119) SHEET 2:				
PT #	NORTHING	EASTING	ELEV.	DESCRIPTION	PT #	NORTHING	EASTING	ELEV.	DESCRIPTION
200000	260676.87	37940.09	6489.2	DEA CONTROL	100024	250346.27	49628.87	5778.8	DEA CONTROL
200001	260671.20	37980.29	6480.1	DEA CONTROL	100025	250594.07	49585.56	5782.8	DEA CONTROL
200002	260580.61	38132.74	6470.7	DEA CONTROL	100026	250804.54	49454.93	5785.6	DEA CONTROL
200003	260273.28	38137.72	6455.6	DEA CONTROL	100027	250954.12	49289.71	5789.4	DEA CONTROL
200004	260042.49	38050.71	6449.4	DEA CONTROL	100028	251448.15	49154.43	5804.0	DEA CONTROL
200005	259827.41	38470.27	6427.2	DEA CONTROL	100029	251775.98	48956.33	5813.3	DEA CONTROL
200006	259718.85	38740.50	6415.7	DEA CONTROL	100030	252138.37	48818.35	5819.7	DEA CONTROL
200007	259693.00	38854.37	6401.3	DEA CONTROL	100031	252386.11	48633.73	5833.5	DEA CONTROL
200008	259356.76	39121.46	6385.7	DEA CONTROL	100032	252368.93	48448.51	5838.5	DEA CONTROL
200009	259001.03	39050.50	6371.6	DEA CONTROL	100033	252539.38	48137.93	5844.6	DEA CONTROL
200010	258538.19	38856.80	6353.4	DEA CONTROL	100034	252404.68	47776.29	5854.4	DEA CONTROL
200011	261483.60	38006.81	6518.5	DEA CONTROL	100035	252587.78	47473.35	5864.2	DEA CONTROL
200012	261507.75	37854.84	6535.5	DEA CONTROL	100036	252653.89	47306.24	5871.4	DEA CONTROL
200013	261444.48	37518.77	6544.2	DEA CONTROL	100037	252419.86	47133.40	5878.9	DEA CONTROL
200014	261580.11	37383.52	6552.4	DEA CONTROL	100038	252722.08	46943.57	5885.1	DEA CONTROL
200015	261848.91	37287.77	6568.2	DEA CONTROL	100039	252974.75	46500.09	5904.2	DEA CONTROL
200016	261804.97	36980.37	6581.1	DEA CONTROL	100040	253150.97	46243.37	5927.2	DEA CONTROL
200017	261844.61	36876.60	6595.2	DEA CONTROL	100041	253471.20	46306.88	5938.1	DEA CONTROL
200018	261842.61	36873.83	6595.1	SPIKE	100042	253729.30	45913.88	5956.6	DEA CONTROL
200019	258117.68	39173.01	6332.9	DEA CONTROL	100043	254038.92	45883.37	5967.8	DEA CONTROL
200020	258124.70	39386.53	6315.9	DEA CONTROL	100044	254102.28	45803.49	5977.0	DEA CONTROL
200021	258253.30	39815.99	6319.4	DEA CONTROL	100045	254091.47	45343.27	5984.2	DEA CONTROL
200022	258150.80	39810.84	6335.8	DEA CONTROL	100046	254393.02	45181.84	5995.4	DEA CONTROL
200023	258001.37	39917.37	6347.8	DEA CONTROL	100047	254546.20	45253.45	5999.5	DEA CONTROL
301	260918.86	37996.29	6488.1	DEA CONTROL	100080	261804.11	39954.36	6583.1	DEA CONTROL
302	257914.18	40324.83	6370.5	DEA CONTROL	100485	261591.18	37329.25	6557.8	DEA CONTROL
800	261023.65	37947.17	6496.2	DEA CONTROL	100486	261447.49	37386.42	6532.1	DEA CONTROL
					100809	261381.20	37589.77	6523.8	DEA CONTROL
					101071	260638.48	38026.63	6478.4	DEA CONTROL
					101188	260011.76	38071.33	6448.3	DEA CONTROL
					101185	258876.02	38358.17	6431.5	DEA CONTROL
					101184	258958.71	38213.78	6438.4	DEA CONTROL
					101255	259728.03	38483.34	6407.2	DEA CONTROL
					102081	259786.42	38814.89	6385.8	DEA CONTROL
					102181	259788.31	38588.82	6388.3	DEA CONTROL
					102182	259855.25	38696.38	6391.5	DEA CONTROL
					102183	259855.84	38794.09	6410.3	DEA CONTROL
					102235	259749.65	38830.01	6383.8	#5 REBAR NO CAP
					102344	261144.17	37855.05	6502.8	DEA CONTROL
					102422	248022.28	51625.47	5995.2	3-1/2" ALUMINUM CAP
					102423	248010.54	49178.72	5997.9	STONE IN MOUND
					102494	260145.40	38047.32	6448.4	DEA CONTROL
					102532	260425.78	38125.45	6458.6	#5 REBAR OPC 'DEA INC'
					102582	260916.04	38053.09	6473.9	60# NAIL
					102721	261635.00	38673.71	6598.9	60# NAIL
					102827	261066.65	37866.27	6408.1	60# NAIL
					102954	261386.63	37997.17	6512.5	60# NAIL
					500008	258358.78	39121.46	6385.8	DEA CONTROL
					500009	259001.03	39050.50	6371.9	DEA CONTROL

I, Todd G. Beers, A Licensed Land Surveyor in the State of Colorado, do hereby certify to the Michael Baker International and Boulder County, Colorado, that this control diagram reflects the results of a GPS Control Survey completed on October 20, 2014, made under my direct supervision and is true and correct to the best of my knowledge and belief.



Todd G. Beers, Professional Land Surveyor
State of Colorado P.L.S. Number 30822
Fore and on behalf of David Evans and Associates, Inc.

Notice:

According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown herein.

NOTES:

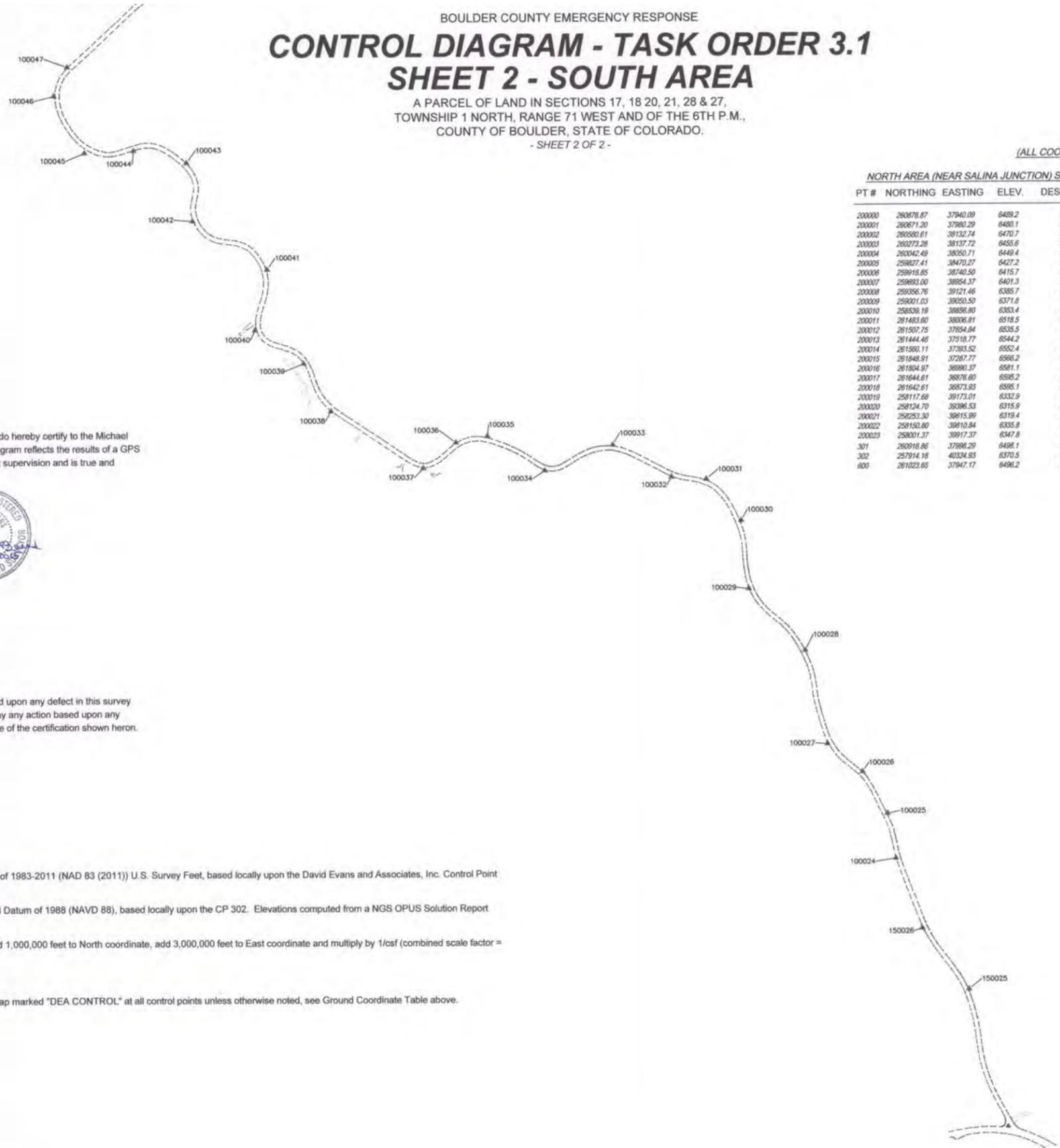
- 1.) The basis of coordinates for this map is the North America Datum of 1983-2011 (NAD 83 (2011)) U.S. Survey Feet, based locally upon the David Evans and Associates, Inc. Control Point DEA CP 302 for ground coordinate scale factor determination.
- 2.) The basis of elevations for this map is the North American Vertical Datum of 1988 (NAVD 88), based locally upon the CP 302. Elevations computed from a NGS OPUS Solution Report using a four (4) hour occupation data set at DEA CP 302.
- 3.) To modify ground control to Colorado State Plane North Zone; add 1,000,000 feet to North coordinate, add 3,000,000 feet to East coordinate and multiply by 1/csf (combined scale factor = 1/1.000328515 = 0.999671593).
- 4.) Fieldwork for control was completed October, 2014.
- 5.) Set 18" long #5 rebar with 1-1/4" outside diameter yellow plastic cap marked "DEA CONTROL" at all control points unless otherwise noted, see Ground Coordinate Table above.



60% SET	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	NO.	DATE	REVISION DESCRIPTION:	BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION	DESIGNED:	CAD:	CHECKED:	DATE:	FOURMILE CANYON DR SURVEY CONTROL DIAGRAM	PROJECT NO: 4043.SEPT12C36	SHEET NO: 9
		MJK	MJK	MJK		08/30/16						

BOULDER COUNTY EMERGENCY RESPONSE
CONTROL DIAGRAM - TASK ORDER 3.1
SHEET 2 - SOUTH AREA

A PARCEL OF LAND IN SECTIONS 17, 18 20, 21, 28 & 27,
 TOWNSHIP 1 NORTH, RANGE 71 WEST AND OF THE 6TH P.M.,
 COUNTY OF BOULDER, STATE OF COLORADO.
 - SHEET 2 OF 2 -



GROUND COORDINATE TABLE:
 (ALL COORDINATES AND ELEVATIONS ARE U.S. SURVEY FEET)

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20004	260242.49	38050.71	6448.4	DEA CONTROL	10008	251448.15	49154.43	5804.0	DEA CONTROL
20005	259827.41	38470.27	6427.2	DEA CONTROL	10009	251775.98	48896.33	5813.3	DEA CONTROL
20006	259918.85	38740.50	6415.7	DEA CONTROL	10010	252136.37	48818.35	5819.7	DEA CONTROL
20007	259893.00	38854.37	6401.3	DEA CONTROL	10011	252356.11	48633.73	5833.5	DEA CONTROL
20008	259356.76	39121.46	6385.7	DEA CONTROL	10012	252388.93	48448.51	5838.5	DEA CONTROL
20009	259001.03	39050.50	6371.8	DEA CONTROL	10013	252539.39	48137.93	5844.8	DEA CONTROL
20010	258329.19	38856.80	6353.4	DEA CONTROL	10014	252404.89	47776.29	5854.4	DEA CONTROL
20011	261483.80	38006.81	6518.5	DEA CONTROL	10015	252587.78	47473.35	5864.2	DEA CONTROL
20012	261507.75	37854.84	6535.5	DEA CONTROL	10016	252553.99	47306.24	5871.4	DEA CONTROL
20013	261444.48	37518.77	6544.2	DEA CONTROL	10017	252419.88	47133.40	5878.9	DEA CONTROL
20014	261580.11	37383.52	6552.4	DEA CONTROL	10018	252222.06	46843.57	5885.1	DEA CONTROL
20015	261848.91	37287.77	6566.2	DEA CONTROL	10019	252974.75	46600.09	5904.2	DEA CONTROL
20016	261804.97	36980.37	6581.1	DEA CONTROL	10020	261804.97	46243.37	5927.2	DEA CONTROL
20017	261644.61	36876.80	6585.2	DEA CONTROL	10021	253471.20	46308.88	5938.1	DEA CONTROL
20018	261642.61	36873.83	6595.1	SPIKE	10022	253729.30	45913.88	5956.6	DEA CONTROL
20019	258117.68	38173.01	6332.9	DEA CONTROL	10023	254036.92	45883.37	5967.8	DEA CONTROL
20020	258124.70	38396.53	6315.9	DEA CONTROL	10024	254102.26	45803.49	5977.0	DEA CONTROL
20021	258253.30	38615.99	6319.4	DEA CONTROL	10025	254091.47	45343.27	5984.2	DEA CONTROL
20022	259150.80	38810.84	6335.8	DEA CONTROL	10026	254383.02	45181.64	5995.4	DEA CONTROL
20023	259001.37	39917.37	6347.8	DEA CONTROL	10027	254546.20	45253.45	5999.5	DEA CONTROL
301	260918.86	37989.29	6498.1	DEA CONTROL	10028	261804.11	38954.36	6583.1	DEA CONTROL
302	257914.18	40324.83	6370.5	DEA CONTROL	10029	261591.18	37329.25	6557.3	DEA CONTROL
600	261823.65	37847.17	6496.2	DEA CONTROL	10030	261447.49	37386.42	6532.1	DEA CONTROL
					10031	261361.20	37589.77	6523.8	DEA CONTROL
					101071	260638.48	38026.83	6475.4	DEA CONTROL
					101186	260011.76	38071.33	6448.3	DEA CONTROL
					101185	259876.02	38358.17	6431.5	DEA CONTROL
					101184	259950.71	38213.78	6438.4	DEA CONTROL
					101255	259728.03	38483.34	6407.2	DEA CONTROL
					102091	259796.42	38614.89	6395.8	DEA CONTROL
					102181	259768.31	38588.82	6396.3	DEA CONTROL
					102182	259855.25	38996.38	6391.5	DEA CONTROL
					102183	259855.84	38794.09	6410.3	DEA CONTROL
					102235	259749.65	38830.01	6383.8	#5 REBAR NO CAP
					102344	261144.17	37955.05	6502.8	DEA CONTROL
					102422	248602.28	51625.47	5895.2	2-1/2" ALUMINUM CAP
					102423	248610.54	49179.72	5897.9	STONE IN MOUND
					102494	260145.40	38047.32	6449.4	DEA CONTROL
					102532	260425.78	38125.45	6456.6	#5 REBAR OPC "DEA INC"
					102592	260516.04	38053.09	6473.9	80# NAIL
					102721	261635.00	36875.71	6598.9	80# NAIL
					102827	261068.85	37856.27	6488.1	80# NAIL
					102854	261386.63	37997.17	6512.5	80# NAIL
					500008	259356.76	39121.46	6385.8	DEA CONTROL
					500009	259001.03	38950.50	6371.9	DEA CONTROL

I, Todd G. Beers, A Licensed Land Surveyor in the State of Colorado, do hereby certify to the Michael Baker International and Boulder County, Colorado, that this control diagram reflects the results of a GPS Control Survey completed on October 20, 2014, made under my direct supervision and is true and correct to the best of my knowledge and belief.



Todd G. Beers, Professional Land Surveyor
 State of Colorado P.L.S. Number 30822
 Fore and on behalf of David Evans and Associates, Inc.

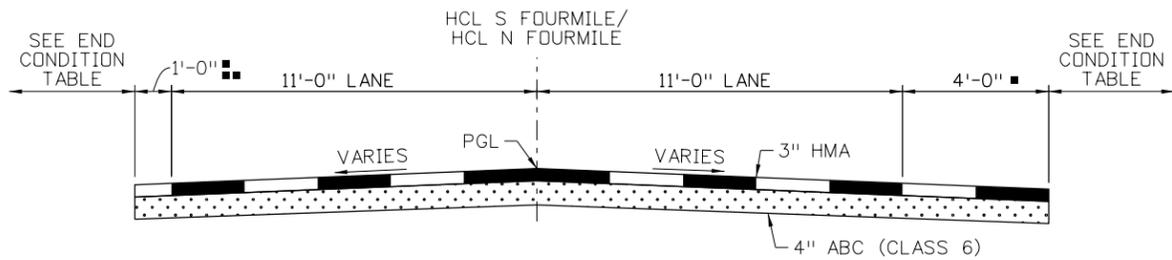
Notice:
 According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

- The basis of coordinates for this map is the North America Datum of 1983-2011 (NAD 83 (2011)) U.S. Survey Feet, based locally upon the David Evans and Associates, Inc. Control Point DEA CP 302 for ground coordinate scale factor determination.
- The basis of elevations for this map is the North American Vertical Datum of 1988 (NAVD 88), based locally upon the CP 302. Elevations computed from a NGS OPUS Solution Report using a four (4) hour occupation data set at DEA CP 302.
- To modify ground control to Colorado State Plane North Zone; add 1,000,000 feet to North coordinate, add 3,000,000 feet to East coordinate and multiply by 1/csf (combined scale factor = 1/1.000328515 = 0.999671593).
- Fieldwork for control was completed October, 2014.
- Set 18" long #5 rebar with 1-1/4" outside diameter yellow plastic cap marked "DEA CONTROL" at all control points unless otherwise noted, see Ground Coordinate Table above.



60% SET		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				 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION 	DESIGNED: MJM	CAD: MJM	CHECKED: MJK	DATE: 08/30/16	FOURMILE CANYON DR SURVEY CONTROL DIAGRAM PROJECT NO: 4043.SEPT12C36 SHEET NO: 10
		NO.	DATE	REVISION DESCRIPTION:							

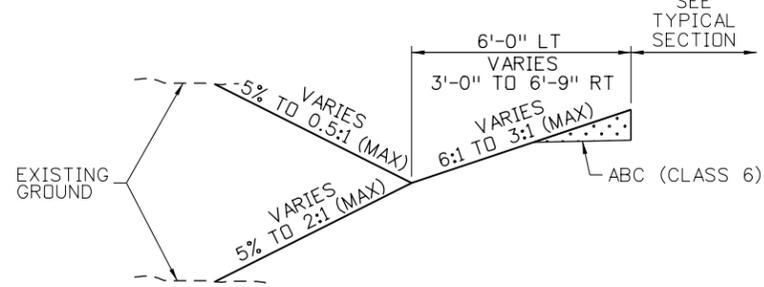
Mary_Monks 12/25/16 11:25:32 AM B:\28\2016 pwr\DCP\APP\BKR\mkbakercorp.com\prowod\Documents\Projects\Lakewood_Office\Boulder_County_Emergency_Transportation\103\08_Sheet_L_Files\05_Roadway\05N_SouthFourmile_Typicals_S-01.dgn



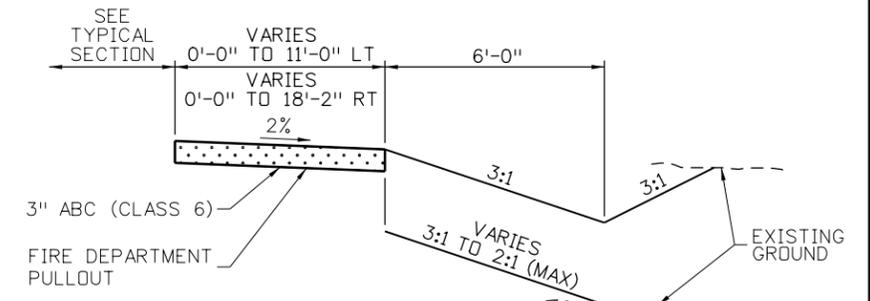
TYPICAL SECTION - FOURMILE CANYON DR

NTS
 STA 52+00 TO STA 89+15 - S FOURMILE
 STA 216+72 TO STA 256+87 - N FOURMILE

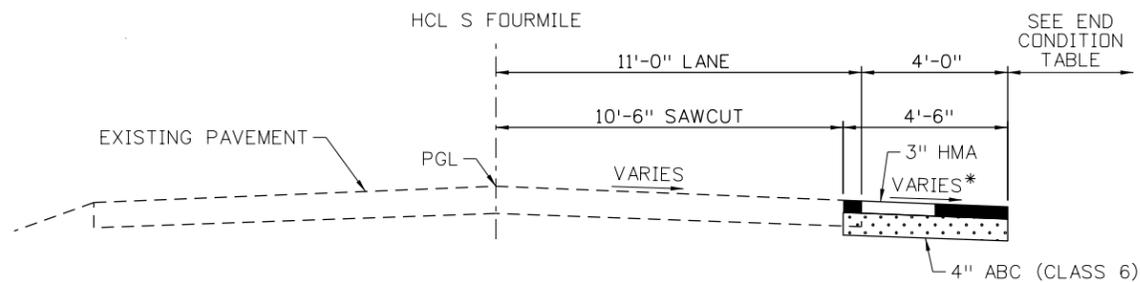
- VARIES AT PROJECT LIMITS TO MATCH EXISTING PAVEMENT
- STA 56+70 TO STA 58+30 VARIES 1'-0" TO 15'-4" (FIRE DEPARTMENT PULLOUT)



DETAIL A

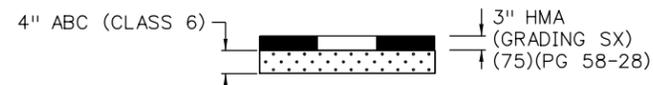


DETAIL B

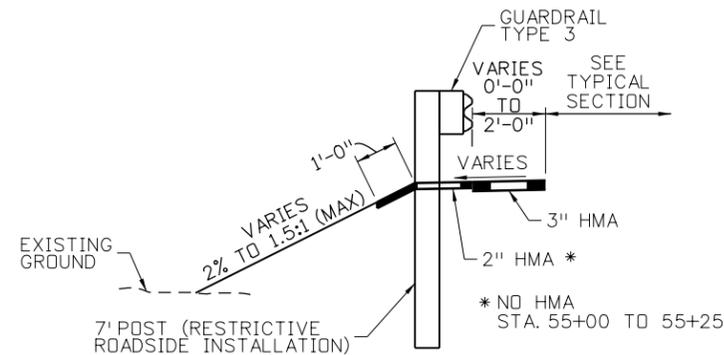


TYPICAL SECTION - FOURMILE CANYON DR

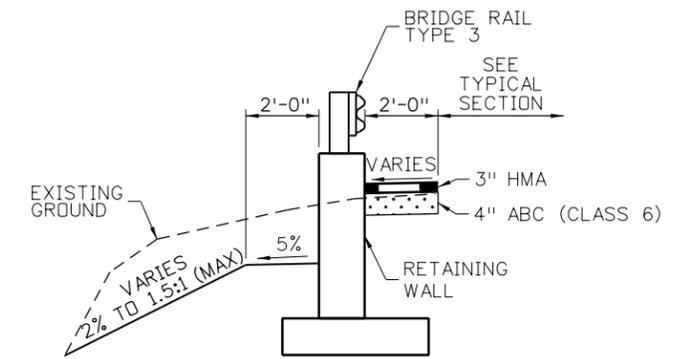
NTS
 STA 89+15 TO STA 98+11 - S FOURMILE * MATCH CROSS SLOPE OF ADJACENT LANE



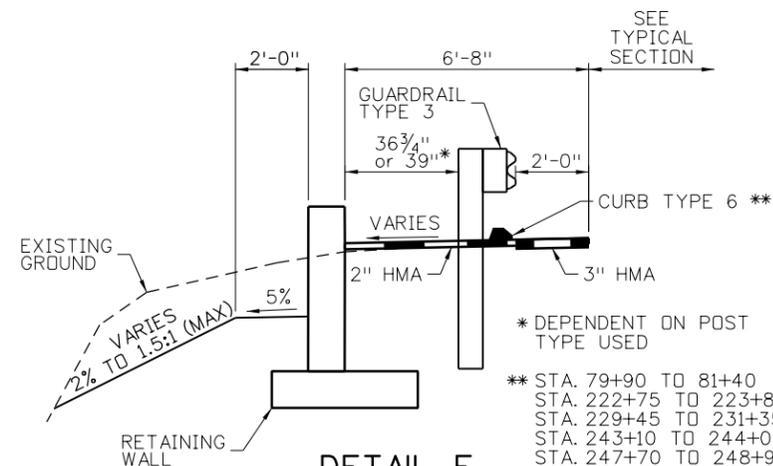
PAVEMENT DETAIL



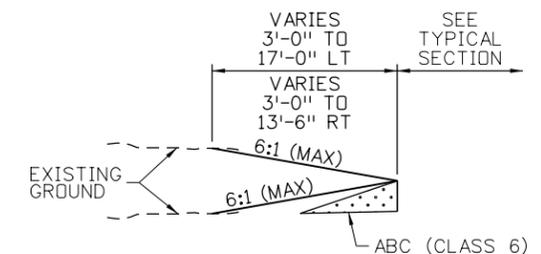
DETAIL C



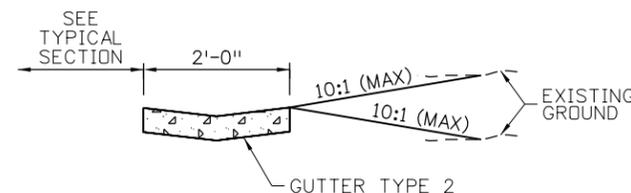
DETAIL D



DETAIL E



DETAIL F

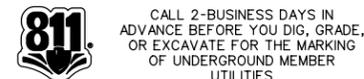


DETAIL G

NOTES:

- ROADWAY SUPERELEVATION VARIES, SEE PROFILE SHEETS.
- END CONDITION DETAILS MAY APPLY TO EITHER SIDE. THEY ARE TO BE MIRRORED AS APPROPRIATE.
- SEE END CONDITION TABLES ON SHEET 2 OF 2 FOR DETAIL STATION LIMITS.
- DRIVEWAYS CONNECTING TO EXISTING BRIDGES SHALL BE SURFACED WITH 3" HMA UP TO THE BRIDGE DECK. ALL OTHER DRIVEWAYS SHALL BE SURFACED WITH 3" ABC (CLASS 6) OR 3" HMA AS SHOWN ON THE PLANS.
- PULLOUTS SHALL BE SURFACED WITH 3" ABC (CLASS 6) UNLESS SPECIFIED OTHERWISE.
- ALL DETAILS SHOWN ARE NOT TO SCALE.
- SEE STRUCTURAL PLANS FOR RETAINING WALL DETAILS.

60% SET



NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
 Michael Baker INTERNATIONAL
 DESIGNED: MEM CAD: EAV CHECKED: DTW DATE: 08/30/16

FOURMILE CANYON DR
TYPICAL SECTIONS

PROJECT NO: 4043.SEPT12C36 SHEET NO: 11

END CONDITION TABLE - SOUTH

HCL	STATION		SIDE	DETAIL
	FROM	TO		
S FOURMILE	52+00	53+59	RT	B
S FOURMILE	52+00	53+56	LT	F
S FOURMILE	53+56	54+06	LT	C
S FOURMILE	53+59	54+60	RT	A
S FOURMILE	54+06	54+79	LT	D
S FOURMILE	54+60	55+80	RT	F
S FOURMILE	55+00	55+25	LT	C
S FOURMILE	55+25	56+10	LT	D
S FOURMILE	55+80	71+90	RT	A
S FOURMILE	56+34	58+81	LT	F
S FOURMILE	59+09	60+00	LT	D
S FOURMILE	60+00	61+24	LT	C
S FOURMILE	61+24	62+30	LT	F
S FOURMILE	62+30	62+54	LT	A
S FOURMILE	62+54	62+56	LT	F
S FOURMILE	62+88	63+70	LT	F
S FOURMILE	63+70	65+91	LT	C
S FOURMILE	65+91	66+57	LT	F
S FOURMILE	66+57	67+17	LT	A
S FOURMILE	67+17	67+65	LT	F
S FOURMILE	67+65	67+88	LT	F
S FOURMILE	67+88	69+21	LT	A
S FOURMILE	69+21	70+43	LT	F
S FOURMILE	70+43	72+25	LT	A
S FOURMILE	71+90	72+65	RT	F
S FOURMILE	72+25	79+91	LT	F
S FOURMILE	72+65	76+00	RT	A
S FOURMILE	76+00	77+10	RT	F
S FOURMILE	77+10	91+24	RT	A
S FOURMILE	79+91	82+46	LT	E
S FOURMILE	82+46	83+42	LT	C
S FOURMILE	83+42	84+73	LT	A
S FOURMILE	84+73	87+01	LT	E
S FOURMILE	87+01	87+97	LT	C
S FOURMILE	87+97	89+00	LT	A
S FOURMILE	89+00	89+15	LT	F
S FOURMILE	91+42	91+84	RT	A
S FOURMILE	91+84	91+87	RT	F
S FOURMILE	91+87	93+52	RT	G
S FOURMILE	93+52	95+12	RT	F
S FOURMILE	95+64	98+11	RT	A

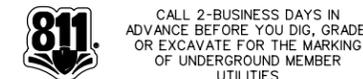
END CONDITION TABLE - NORTH

HCL	STATION		SIDE	DETAIL
	FROM	TO		
N FOURMILE	216+72	220+00	RT	A
N FOURMILE	216+72	219+56	LT	D
N FOURMILE	219+56	220+74	LT	C
N FOURMILE	220+00	220+22	RT	F
N FOURMILE	220+22	221+64	RT	A
N FOURMILE	220+74	221+00	LT	F
N FOURMILE	221+00	222+03	LT	E
N FOURMILE	221+64	223+80	RT	B
N FOURMILE	222+03	222+72	LT	C
N FOURMILE	222+72	224+59	LT	E
N FOURMILE	223+80	225+00	RT	A
N FOURMILE	224+59	225+54	LT	C
N FOURMILE	225+00	227+50	RT	F
N FOURMILE	225+54	225+61	LT	F
N FOURMILE	225+61	225+91	LT	A
N FOURMILE	225+91	226+20	LT	F
N FOURMILE	226+20	227+89	LT	A
N FOURMILE	227+50	235+09	RT	A
N FOURMILE	227+89	228+35	LT	F
N FOURMILE	228+35	229+46	LT	A
N FOURMILE	229+46	231+31	LT	E
N FOURMILE	231+69	233+69	LT	F
N FOURMILE	233+69	234+53	LT	A
N FOURMILE	234+53	235+61	LT	F
N FOURMILE	235+74	236+84	RT	A
N FOURMILE	236+41	238+05	LT	F
N FOURMILE	237+41	242+51	RT	A
N FOURMILE	239+39	240+14	LT	A
N FOURMILE	240+14	241+20	LT	F
N FOURMILE	241+20	243+10	LT	A
N FOURMILE	242+93	245+60	RT	A
N FOURMILE	243+10	246+49	LT	E
N FOURMILE	245+60	246+10	RT	F
N FOURMILE	246+10	250+53	RT	A
N FOURMILE	246+49	247+15	LT	C
N FOURMILE	247+15	248+88	LT	E
N FOURMILE	248+88	249+91	LT	C
N FOURMILE	249+91	253+86	LT	A
N FOURMILE	250+88	256+87	RT	A
N FOURMILE	254+83	255+70	LT	A
N FOURMILE	255+70	256+70	LT	E
N FOURMILE	256+70	256+87	LT	C

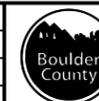
NOTES:

1. STA 93+21 TO 93+52 - FIRE STATION DRIVEWAY
2. GAPS IN STATIONING REPRESENT DRIVEWAY OPENINGS

60% SET



NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

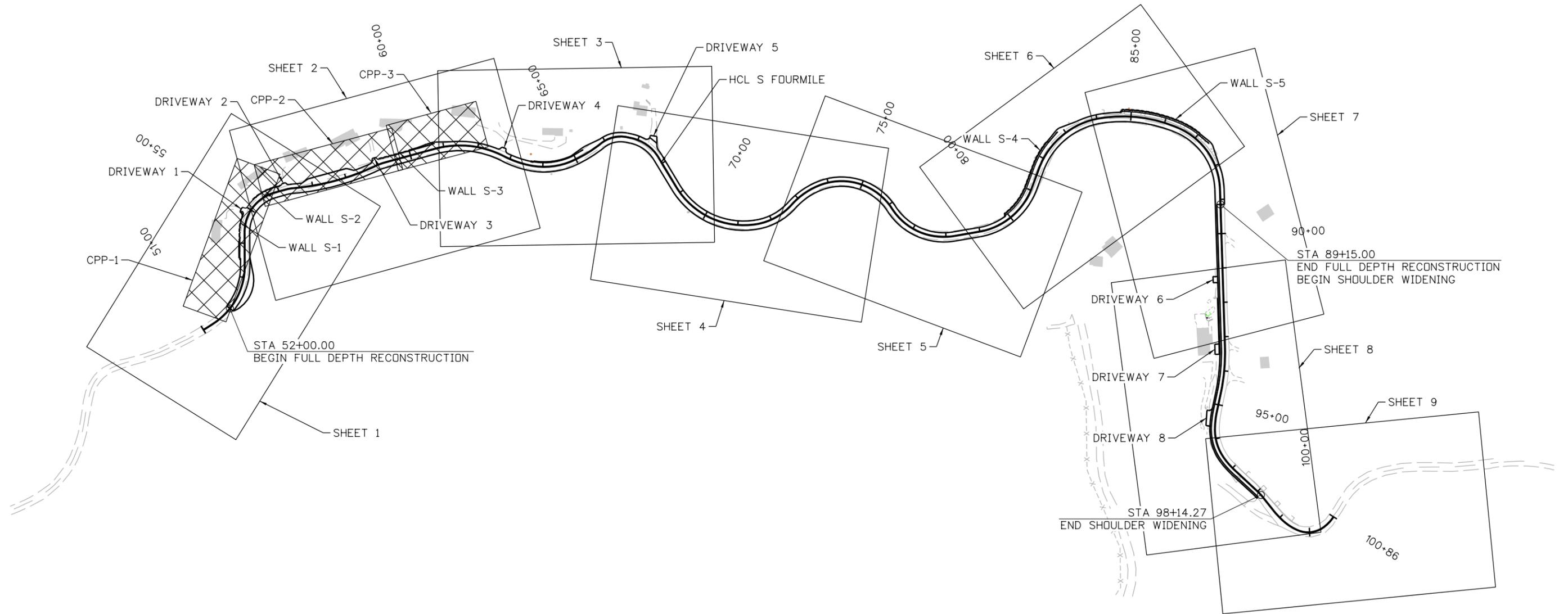
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FOURMILE CANYON DR
TYPICAL SECTIONS

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LEGEND

-  ROADWAY, DRAINAGE AND REMOVAL PLANS
-  CREEK PLAN AND PROFILE SHEETS



150 0 150 300 FT
HORIZONTAL SCALE: 1"=300'

60% SET

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



REVISIONS:	NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
MEM	EAV	DTW	08/30/16

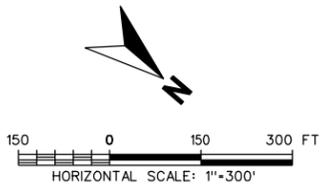
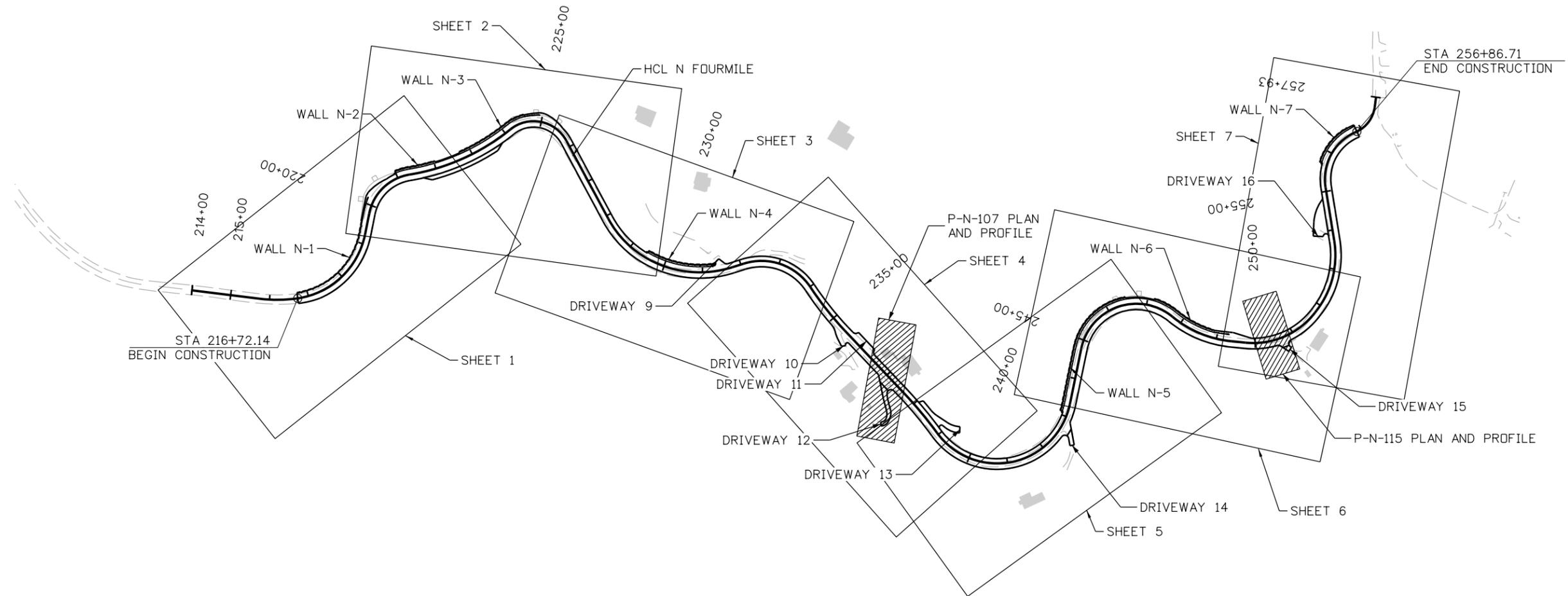
FOURMILE CANYON DR (SOUTH)
KEY MAP
PROJECT NO: 4043.SEPT12C36 SHEET NO: 13

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LEGEND

 ROADWAY, DRAINAGE AND REMOVAL PLANS

 DRAINAGE PLAN AND PROFILE SHEETS



60% SET

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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

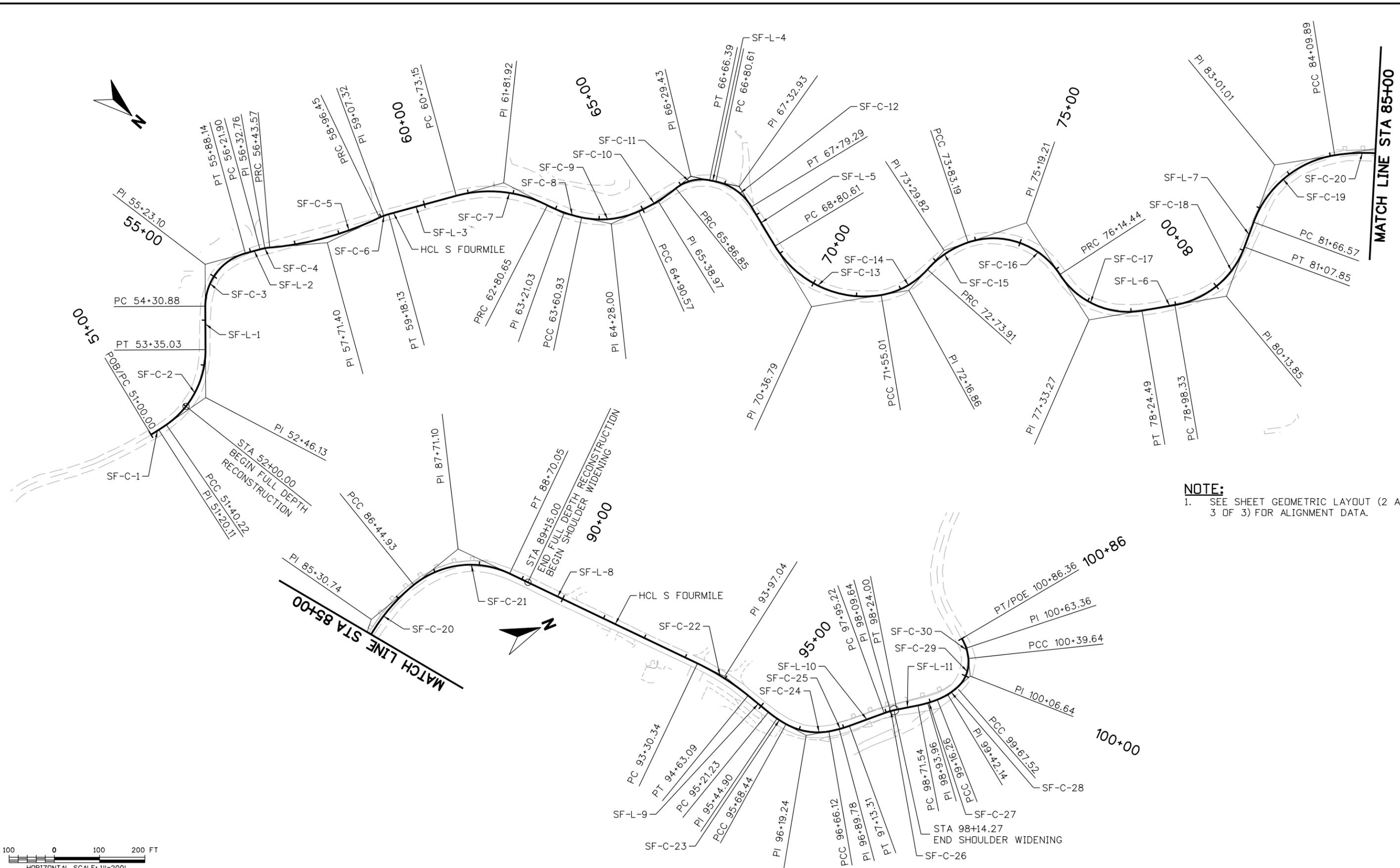
 **BOULDER COUNTY TRANSPORTATION DEPARTMENT**
ENGINEERING DIVISION
 **Michael Baker INTERNATIONAL**

DESIGNED:	CAD:	CHECKED:	DATE:
MEM	EAV	DTW	08/30/16

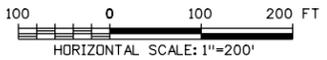
FOURMILE CANYON DR (NORTH)
KEY MAP
 PROJECT NO: 4043.SEPT12C36 SHEET NO: 14

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Mary_Monks 8/23/16 PM 8/29/2016 pm \\VCP\W\4911br.mbakercorp.com\p\proj\Documents\Projects\Lakewood\Office\Boulder_County_Emergency_Transportation\T03\08_Sheet_Files\05_Roadway\DM\SouthFourmile_Geo_S-Layout01.dgn



NOTE:
 1. SEE SHEET GEOMETRIC LAYOUT (2 AND 3 OF 3) FOR ALIGNMENT DATA.

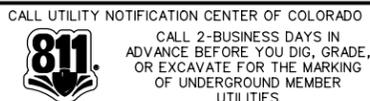


60% SET	 CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS:	NO. DATE REVISION DESCRIPTION:		BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED: MEM CAD: EAV CHECKED: DTW DATE: 08/30/16	FOURMILE CANYON DR (SOUTH) GEOMETRIC LAYOUT (1 OF 3) 15 PROJECT NO: 4043.SEPT12C36 SHEET NO:
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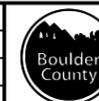
HORIZONTAL ALIGNMENT DATA (HCL S FOURMILE)											
LINE NUMBER	CURVE NUMBER	POINT TYPE	STATION	NORTHING	EASTING	BEARING	DISTANCE (FEET)	RADIUS (FEET)	LENGTH (FEET)	CURVE DELTA	CURVE DIRECTION
		PDB/PC	51+00.00	252554.69	47508.07						
	SF-C-1	PI	51+20.11	252560.95	47488.96			667	40.22	3° 27'17"	LEFT
		PCC	51+40.22	252566.04	47469.50						
	SF-C-2	PI	52+46.13	252592.85	47367.03			200	194.81	55° 48'31"	LEFT
		PT	53+35.03	252523.17	47287.27						
SF-L-1						S48° 51'24W	95.85				
		PC	54+30.88	252460.10	47215.09						
	SF-C-3	PI	55+23.10	252399.43	47145.64			120	157.26	75° 05'05"	RIGHT
		PT	55+88.14	252450.92	47069.13						
SF-L-2						N56° 03'30W	33.76				
		PC	56+21.90	252469.77	47041.13						
	SF-C-4	PI	56+32.76	252475.84	47032.11			120	21.68	10° 20'57"	RIGHT
		PRC	56+43.57	252483.42	47024.33						
	SF-C-5	PI	57+71.40	252572.69	46932.83			700	252.88	20° 41'54"	LEFT
		PRC	58+96.45	252623.85	46815.68						
	SF-C-6	PI	59+07.32	252628.20	46805.72			120	21.68	10° 20'57"	RIGHT
		PT	59+18.13	252634.27	46796.71						
SF-L-3						N56° 03'30W	155.02				
		PC	60+73.15	252720.82	46668.10						
	SF-C-7	PI	61+81.92	252781.56	46577.86			280	207.5	42° 27'39"	RIGHT
		PRC	62+80.65	252887.29	46552.29						
	SF-C-8	PI	63+21.03	252926.54	46542.79			300	80.28	15° 19'58"	LEFT
		PCC	63+60.93	252961.88	46523.26						
	SF-C-9	PI	64+28.00	253020.58	46490.81			205	129.64	36° 13'56"	LEFT
		PCC	64+90.57	253048.75	46429.95						
	SF-C-10	PI	65+38.97	253069.08	46386.02			380	96.28	14° 31'03"	LEFT
		PRC	65+86.85	253077.75	46338.41						
	SF-C-11	PI	66+29.43	253085.38	46296.52			90	79.54	50° 38'01"	RIGHT
		PT	66+66.39	253122.60	46275.85						
SF-L-4						N29° 02'47W	14.22				
		PC	66+80.61	253135.03	46268.94						
	SF-C-12	PI	67+32.93	253180.77	46243.54			120	98.68	47° 06'52"	RIGHT
		PT	67+79.29	253230.51	46259.77						
SF-L-5						N18° 04'04E	101.32				
		PC	68+80.61	253326.84	46291.19						
	SF-C-13	PI	70+36.79	253475.32	46339.63			230	274.4	68° 21'23"	LEFT
		PCC	71+55.01	253575.10	46219.48						
	SF-C-14	PI	72+16.86	253614.62	46171.90			175	118.91	38° 55'50"	LEFT
		PRC	72+73.91	253615.46	46110.06						
	SF-C-15	PI	73+29.82	253616.23	46054.16			210	109.27	29° 48'50"	RIGHT
		PCC	73+83.19	253644.68	46006.04						
	SF-C-16	PI	75+19.21	253713.91	45888.95			175	231.25	75° 42'47"	RIGHT
		PRC	76+14.44	253844.46	45927.15						
	SF-C-17	PI	77+33.27	253958.50	45960.51			180	210.05	66° 51'43"	LEFT
		PT	78+24.49	254034.00	45868.75						
SF-L-6						N50° 33'14W	73.84				
		PC	78+98.33	254080.92	45811.73						
	SF-C-18	PI	80+13.85	254154.31	45722.52			200	209.52	60° 01'21"	LEFT
		PT	81+07.85	254113.71	45614.37						
SF-L-7						S69° 25'25W	58.72				
		PC	81+66.57	254093.08	45559.40						

NOTE:
1. SEE SHEET GEOMETRIC LAYOUT (1 OF 3) FOR ALIGNMENT GRAPHICS.

60% SET



NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED: MEM CAD: EAV CHECKED: DTW DATE: 08/30/16

FOURMILE CANYON DR (SOUTH)
GEOMETRIC LAYOUT
(2 OF 3)
PROJECT NO: 4043.SEPT12C36 SHEET NO: 16

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HORIZONTAL ALIGNMENT DATA (HCL S FOURMILE)											
LINE NUMBER	CURVE NUMBER	POINT TYPE	STATION	NORTHING	EASTING	BEARING	DISTANCE (FEET)	RADIUS (FEET)	LENGTH (FEET)	CURVE DELTA	CURVE DIRECTION
	SF-C-19	PI	83+01.01	254045.83	45433.54			230	243.32	60° 36'50"	RIGHT
		PCC	84+09.89	254132.31	45330.61						
	SF-C-20	PI	85+30.74	254210.05	45238.08			410	235.04	32° 50'45"	RIGHT
		PCC	86+44.93	254325.54	45202.51						
	SF-C-21	PI	87+71.10	254446.13	45165.38			200	225.13	64° 29'38"	RIGHT
		PT	88+70.05	254531.57	45258.22						
SF-L-8						N47° 22'38E	460.29				
		PC	93+30.34	254843.27	45596.92						
	SF-C-22	PI	93+97.04	254888.43	45645.99			555	132.75	13° 42'16"	RIGHT
		PT	94+63.09	254920.68	45704.37						
SF-L-9						N61° 04'54E	58.14				
		PC	95+21.23	254948.79	45755.26						
	SF-C-23	PI	95+44.90	254960.24	45775.97			265	47.2	10° 12'22"	LEFT
		PCC	95+68.44	254975.17	45794.33						
	SF-C-24	PI	96+19.24	255007.23	45833.74			144	97.68	38° 51'55"	LEFT
		PCC	96+66.12	255056.92	45844.32						
	SF-C-25	PI	96+89.78	255080.06	45849.24			265	47.19	10° 12'12"	LEFT
		PT	97+13.31	255103.7	45849.98						
SF-L-10						N01° 48'25E	81.91				
		PC	97+95.22	255185.58	45852.57						
	SF-C-26	PI	98+09.64	255199.99	45853.02			185	28.77	8° 54'39"	RIGHT
		PT	98+24.00	255214.15	45855.7						
SF-L-11						N10° 43'04E	47.54				
		PC	98+71.54	255260.86	45864.54						
	SF-C-27	PI	98+93.96	255282.89	45868.71			250	44.73	10° 15'03"	LEFT
		PCC	99+16.26	255305.32	45868.9						
	SF-C-28	PI	99+42.14	255331.2	45869.11			150	51.26	19° 34'41"	LEFT
		PCC	99+67.52	255355.65	45860.63						
	SF-C-29	PI	100+06.64	255392.61	45847.83			75	72.12	55° 05'45"	LEFT
		PCC	100+39.64	255403.26	45810.18						
	SF-C-30	PI	100+63.36	255409.72	45787.36			110	46.72	24° 20'04"	LEFT
		PT/POE	100+86.36	255406.2	45763.9						

NOTE:

- SEE SHEET GEOMETRIC LAYOUT (1 OF 3) FOR ALIGNMENT GRAPHICS.

60% SET



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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION

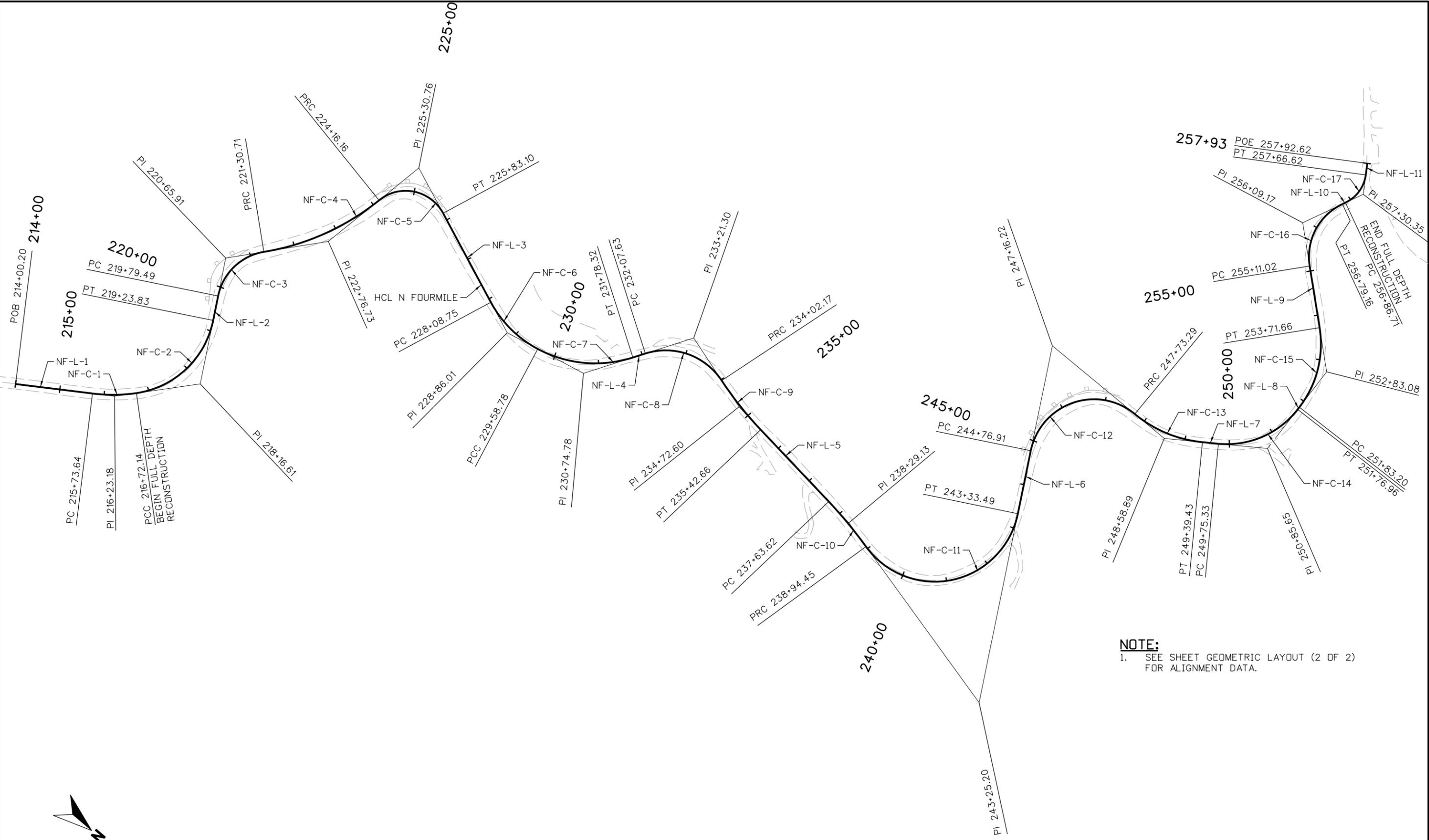
Michael Baker INTERNATIONAL

DESIGNED: MEM	CAD: EAV	CHECKED: DTW	DATE: 08/30/16
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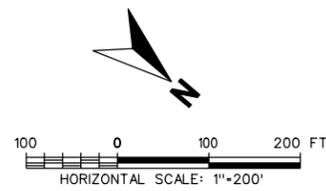
FOURMILE CANYON DR (SOUTH)
GEOMETRIC LAYOUT
(3 OF 3)

PROJECT NO: 4043.SEPT12C36 SHEET NO: 17

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NOTE:
 1. SEE SHEET GEOMETRIC LAYOUT (2 OF 2) FOR ALIGNMENT DATA.



60% SET	 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	NO.	DATE	REVISION DESCRIPTION:	BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED:	CAD:	CHECKED:	DATE:	FOURMILE CANYON DR (NORTH) GEOMETRIC LAYOUT (1 OF 2) PROJECT NO: 4043.SEPT12C36 SHEET NO:18
		MEM	EAV	DTW		08/30/16				

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HORIZONTAL ALIGNMENT DATA (HCL N FOURMILE)											
LINE NUMBER	CURVE NUMBER	POINT TYPE	STATION	NORTHING	EASTING	BEARING	DISTANCE (FEET)	RADIUS (FEET)	LENGTH (FEET)	CURVE DELTA	CURVE DIRECTION
		PDB	214+00.20	259638.90	38971.65						
NF-L-1						N33° 13'43W	173.45				
		PC	215+73.64	259783.98	38876.61						
	NF-C-1	PI	216+23.18	259825.42	38849.46			370	98.50	15° 15'09"	LEFT
		PCC	216+72.14	259858.26	38812.37						
	NF-C-2	PI	218+16.61	259954.03	38704.20			205	251.70	70° 20'50"	LEFT
		PT	219+23.83	259884.37	38577.63						
NF-L-2						S61° 10'17W	55.65				
		PC	219+79.49	259857.53	38528.88						
	NF-C-3	PI	220+65.91	259815.86	38453.17			125	151.23	69° 19'00"	RIGHT
		PRC	221+30.71	259871.97	38387.44						
	NF-C-4	PI	222+76.73	259966.78	38276.39			550	285.45	29° 44'12"	LEFT
		PRC	224+16.16	259994.02	38132.93						
	NF-C-5	PI	225+30.76	260015.40	38020.35			95	166.94	100° 40'59"	RIGHT
		PT	225+83.10	260122.07	38062.22						
NF-L-3						N21° 26'04E	225.64				
		PC	228+08.75	260332.11	38144.68						
	NF-C-6	PI	228+86.01	260404.02	38172.92			255	150.04	33° 42'42"	LEFT
		PCC	229+58.78	260479.52	38156.49						
	NF-C-7	PI	230+74.78	260592.86	38131.82			275	219.54	45° 44'23"	LEFT
		PT	231+78.32	260654.30	38033.44						
NF-L-4						N58° 01'00W	29.32				
		PC	232+07.63	260669.83	38008.57						
	NF-C-8	PI	233+21.30	260730.03	37912.16			150	194.54	74° 18'26"	RIGHT
		PRC	234+02.17	260839.13	37944.04						
	NF-C-9	PI	234+72.60	260906.73	37963.80			800	140.49	10° 03'43"	LEFT
		PT	235+42.66	260976.74	37971.44						
NF-L-5						N06° 13'43E	220.96				
		PC	237+63.62	261196.40	37995.41						
	NF-C-10	PI	238+29.13	261261.52	38002.52			1000	130.83	7° 29'45"	RIGHT
		PRC	238+94.45	261325.15	38018.06						
	NF-C-11	PI	243+25.20	261743.60	38120.26			190	439.04	132° 23'46"	LEFT
		PT	243+33.49	261536.93	37742.32						
NF-L-6						S61° 19'41W	143.42				
		PC	244+76.91	261468.12	37616.49						
	NF-C-12	PI	247+16.22	261353.30	37406.53			144	296.38	117° 55'35"	RIGHT
		PRC	247+73.29	261592.59	37403.41						
	NF-C-13	PI	248+58.89	261678.18	37402.30			280	166.14	33° 59'49"	LEFT
		PT	249+39.43	261748.51	37353.52						
NF-L-7						N34° 44'33W	35.90				
		PC	249+75.33	261778.02	37333.06						
	NF-C-14	PI	250+85.65	261868.67	37270.19			200	201.63	57° 45'43"	LEFT
		PT	251+76.96	261863.85	37159.97						
NF-L-8						S87° 29'44W	6.23				
		PC	251+83.20	261863.57	37153.74						
	NF-C-15	PI	252+83.08	261859.21	37053.96			230	188.46	46° 56'53"	LEFT
		PT	253+71.66	261783.31	36989.02						
NF-L-9						S40° 32'51W	139.36				
		PC	255+11.02	261677.41	36898.43						
	NF-C-16	PI	256+09.17	261602.83	36834.62			130	168.14	74° 06'23"	RIGHT
		PT	256+79.16	261643.78	36745.42						
NF-L-10						N65° 20'46W	7.55				
		PC	256+86.71	261646.92	36738.56						
	NF-C-17	PI	257+30.35	261665.13	36698.89			80	79.90	57° 13'35"	LEFT
		PT	257+66.62	261641.63	36662.12						
NF-L-11						S57° 25'39W	26.01				
		PDE	257+92.62	261627.63	36640.20						

NOTE:
1. SEE SHEET GEOMETRIC LAYOUT (1 OF 2) FOR ALIGNMENT GRAPHICS.

60% SET	 <small>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</small>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION 	DESIGNED:	CAD:	CHECKED:	DATE:	FOURMILE CANYON DR (NORTH) GEOMETRIC LAYOUT (2 OF 2) <small>PROJECT NO: 4043.SEPT12C36 SHEET NO: 19</small>
							MEM	EAV	DTW	08/30/16	