

# PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT

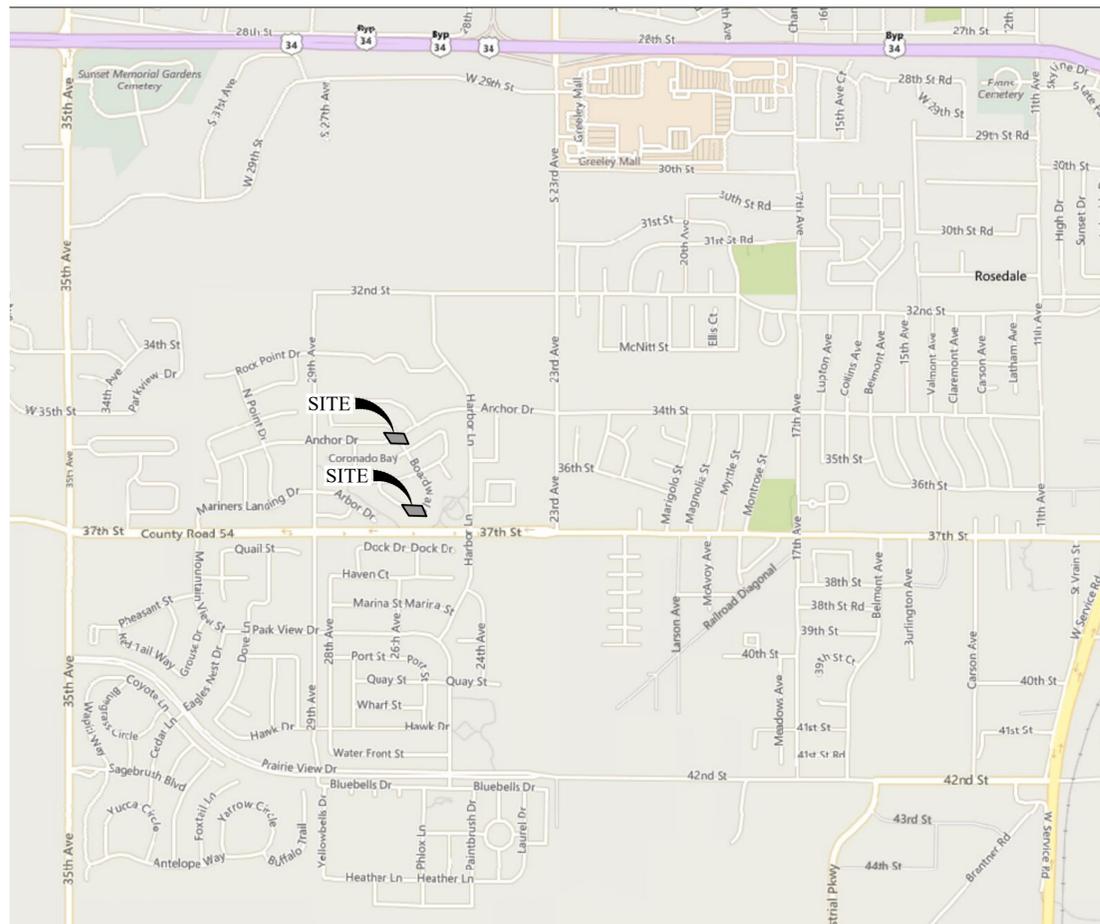
LOCATED IN THE SE 1/4 OF SECTION 24, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH P.M.  
CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO  
BAY AT THE LANDINGS SUBDIVISION  
August 2020



Know what's below.  
Call before you dig.

### LEGEND:

	EXISTING SIGN
	EXISTING TELEPHONE PEDESTAL
	EXISTING CABLE/TV PEDESTAL
	EXISTING ELECTRICAL PEDESTAL
	EXISTING IRRIGATION VALVE
	EXISTING GAS METER
	EXISTING WATER METER
	EXISTING LIGHT POLE
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	NUMBER OF PROPOSED PARKING SPACES
	PROPERTY BOUNDARY
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	SPILL CURB & GUTTER
	SIDEWALK CHASE
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	EXISTING ASPHALT TO BE REMOVED
	EXISTING SWALE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	PROPOSED WATER LINE
	PROPOSED FIRE LINE
	EXISTING WATER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED STORM SEWER LINE (12" & UNDER)
	PROPOSED STORM SEWER LINE (15" & ABOVE)
	EXISTING STORM SEWER LINE
	EXISTING FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING SLOPE LABEL
	EXISTING SPOT ELEVATION



### VICINITY MAP

SCALE: 1"=1000'

### SURVEY CONTROL NOTES

#### BASIS OF ELEVATION:

NAVD88 ADJUSTED ELEVATION. CITY OF EVANS BM#5 A 2" ALUMINUM CAP IN NORTHWEST CORNER OF INTERSECTION 37TH STREET AND HARBOR LANE, 2" ALUMINUM CAP SET IN SOUTH WING WALL OF 42" ROP, 247' NORTH OF TBC 37TH STREET, 330' WEST OF WEST TBC HARBOR LANE. ELEVATION=4726.84

#### BASIS OF BEARING:

CONSIDERING THE EAST LINE OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 9, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEARING NORTH 00°39'24" WEST, MEASURED FROM A NO. 6 REBAR OF UNKNOWN LENGTH WITH AN ATTACHED 3 1/4" ALUMINUM CAP MARKED BY LICENSE NO. 7242 IN MONUMENT BOX AT THE SOUTH END TO A NO. 6 REBAR OF UNKNOWN LENGTH WITH AN ATTACHED 2" ALUMINUM CAP MARKED BY LICENSE NO. 8259 IN MONUMENT BOX AT THE NORTH END, AS SHOWN ON THE RECORDED SUBDIVISION PLAT FOR PLATTE VALLEY SUBDIVISION 3RD FILING, ON RECORD AT THE WELD COUNTY CLERK AND RECORDER'S OFFICE, RECEPTION NO. 1796736.

### PROJECT TEAM

#### CIVIL ENGINEER

TODD G. RAND, P.E.  
COFFEY ENGINEERING & SURVEYING  
4045 ST. CLOUD DR., STE 180  
LOVELAND, CO 80538  
970-622-2095

#### SURVEYOR

READE ROSELLES, L.S.  
COFFEY ENGINEERING & SURVEYING, LLC  
4045 ST. CLOUD DR., STE 180  
LOVELAND, CO 80538  
970-622-2095

#### OWNER

MARK OBERSCHMIDT, P.E.  
CITY ENGINEER  
CITY OF EVANS  
1100 37TH STREET  
EVANS, CO 80620-2036  
970-475-1110

RICK PICKARD, P.E.  
PROJECT MANAGER,  
CITY OF EVANS  
1100 37TH STREET  
EVANS, CO 80620-2036  
970-475-1113

### SHEET INDEX

#	DWG	SHEET TITLE
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NO.	REVISION	DATE
	FOR CONSTRUCTION	8/14/2020

PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR  
 BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT  
**COVER SHEET**  
 BAY AT THE LANDINGS SUBDIVISION  
 SE 1/4 OF SECTION 24, T5N, R66W, 6TH P.M., CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY OF EVANS CONSTRUCTION STANDARDS CURRENT AT THE TIME OF CONSTRUCTION. THE CITY'S ACCEPTANCE ALLOWS FOR PLAN DISTRIBUTION AND PERMIT APPLICATION. THE CITY'S ACCEPTANCE SHALL NOT RELIEVE THE DESIGN ENGINEER'S RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DESIGN DEFICIENCIES FOR WHICH THE CITY IS HELD HARMLESS.

APPROVED DATE **09/09/2020**  
CITY ENGINEER

### CERTIFICATION:

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE CITY OF EVANS AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR THE ACCURACY OF ALL DESIGN, REVISIONS, AND RECORD CONDITIONS THAT I HAVE NOTED ON THESE PLANS.

TODD G. RAND, P.E. #37686

**COFFEY**  
ENGINEERING & SURVEYING  
4045 St. Cloud Drive, Suite 180  
Loveland, CO 80538  
[P] 970-622-2095 [F] 307-742-7403

DWG. NAME  
**C-1**

SHEET NO.  
1 of 7

DRAWING FILENAME: E:\2020\202003\City of Evans Waterline and Inlet Replacement\WORKS\CON\SUBSETS\TOP\NET\2020-09-09-COY-01\NET.dwg LAYOUT NAME: PLS\_Sht DATE: Aug 13, 2020 - 11:00am CAD OPERATOR: rpkobard  
 LIST OF SHEETS: [P]-2020-TBLK-INLET

## GENERAL CONSTRUCTION NOTES - CITY OF EVANS

1. THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.
2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF EVANS, AND THE APPROVED PROJECT DOCUMENTS.
4. THE GENERAL CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCOC) AT 1-(800)-922-1987, OR THE NATIONWIDE UTILITY CONTACT NUMBER (811), TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.
5. ALL VERTICAL AND HORIZONTAL DATUM INFORMATION SHOULD BE OBTAINED USING THE EVANS GEODETIC SURVEY CONDUCTED BY ALBERS, DREXEL & POHLY, INC. JANUARY 9, 1998. A COPY OF FINAL COORDINATES, ELEVATIONS, AND MONUMENT DESCRIPTIONS CAN BE OBTAINED BY CONTACTING THE CITY OF EVANS ENGINEERING DIVISION AT (970) 475-1160.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN, ALL EXISTING UTILITIES NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE PLANS.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRECONSTRUCTION STATE.
8. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
9. IDENTIFYING THE NEED FOR A PERMIT, PREPARING THE APPLICATION, AND PAYING THE SUBMITTAL AND REVIEW FEES NECESSARY TO SECURE PERMITS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. A COPY OF ALL PERMITS MUST BE ON SITE AT ALL TIMES.
10. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR STORM WATER DISCHARGE, ASSOCIATED WITH CONSTRUCTION ACTIVITY. FOR INFORMATION, CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH, AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, S0CD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3500. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSED AT [WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMTHTML](http://WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMTHTML).
11. IF DEWATERING IS TO BE USED, THEN A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED IF DISCHARGE IS INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH, OR ANY WATERS OF THE UNITED STATES.
12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL SOILS REPORT AND PAVEMENT DESIGN REPORT, PRODUCED, OR REFERENCED FOR THIS PROJECT.
13. THE GENERAL CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO ALL CITY, COUNTY, STATE, AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR, THE "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
14. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS LATEST REVISION THEREOF. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT [WWW.EVANS.COLORADO.GOV](http://WWW.EVANS.COLORADO.GOV).
15. THE CITY OF EVANS FOLLOWS ALL TRAFFIC CONTROL STANDARDS SET FORTH IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
16. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED FOR ANY AND ALL UTILITY WORK PERFORMED WITH THE CITY OF EVANS RIGHT-OF-WAY. TRAFFIC CONTROL PLANS CAN BE EMAILED TO THE ENGINEERING DIVISION ATTENTION MARK OBERSCHMIDT [MOBERSCHMIDT@EVANS.COLORADO.GOV](mailto:MOBERSCHMIDT@EVANS.COLORADO.GOV).
17. ALL STREET LIGHTING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF EVANS RESIDENTIAL NEIGHBORHOOD DESIGN STANDARDS.
18. ALL PLANTINGS SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION APPROVED LANDSCAPING PLANTING LIST.
19. ALL SEEDING SHALL UTILIZE THE CITY OF EVANS IRRIGATION DESIGN GUIDELINES AND THE LAWN AND GRASS SPECIFICATIONS SECTION 02930.
20. ALL WORK INCLUDING WARRANTY WORK, SHALL BE INSPECTED BY A CITY REPRESENTATIVE WHO SHALL HAVE AUTHORITY TO HALT CONSTRUCTION WHEN PROPER CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.
21. THERE SHALL BE NO WORK PERFORMED ON THE WEEKENDS, OR HOLIDAYS EXCEPT BY APPROVAL OF THE CITY OF EVANS WITH A MINIMUM OF 24 HOURS NOTICE.
22. THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER AND THE NAME OF A CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
23. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THEIR OWN DISPOSAL SITE FOR ALL DISPOSED MATERIALS.
24. THE ENGINEER WHO HAS PREPARED THESE PLANS, BY EXECUTION AND/ OR SEAL HEAROF DOES HEREBY AFFIRM RESPONSIBILITY TO THE CITY OF EVANS, AS A BENEFICIARY OF SAID ENGINEER'S WORK, FOR ANY ERRORS OR OMISSIONS CONTAINED IN THESE PLANS. ACCEPTANCE OF THESE PLANS BY THE CITY OF EVANS SHALL NOT RELIEVE THE ENGINEER WHO HAS PREPARED THESE PLANS OF SUCH RESPONSIBILITY.

## EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITY COMMENCES.
2. A VEHICLE TRACKING CONTROL STRIP 25' X 50'X 6" WITH 1 1/2" TO 3" ROCK IS TO BE PLACED AND MAINTAINED BY THE GENERAL CONTRACTOR AT ALL ACCESS POINTS INTO THE CONSTRUCTION SITE.
3. A 20' X 20' CONCRETE WASH OUT AREA OR APPROVED EQUAL SHALL BE ESTABLISHED NEAR THE EXIT TO THE SITE. THE AREA SHALL BE FENCED WITH ORANGE SAFETY FENCING ON THREE SIDES AND HAVE AN EARTHEN BERM, OR DEPRESSION CUT INTO THE GRADE TO PREVENT WATER AND CONCRETE FROM LEAVING THE AREA. A SIGN DIRECTING ALL CONCRETE TRUCKS TO THE WASHOUT MUST BE ERRECTED AT ALL ENTRIES TO THE SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE WASHOUT AREA PRIOR TO LEAVING THE SITE ONCE INITIAL SITE CONSTRUCTION IS COMPLETE. BURYING OF THE DEBRIS IS STRICTLY PROHIBITED.
4. SILT FENCE OR APPROVED EQUAL SHALL BE PLACED ALONG THE DOWN- GRADIENT PERIMETER OF SITE.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.
6. NO SOIL STOCKPILE SHALL EXCEED 10 FEET IN HEIGHT, ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING OR EARTHEN BERM. ANY SOIL STOCKPILES REMAINING AFTER THREE MONTHS FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SHALL BE SEEDED WITH A TEMPORARY COVER CROP OR REMOVED FROM THE SITE.
7. ONCE FINAL GRADING IS COMPLETE, ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RIPPED BY A GRADER IN CORN FURROW FASHION OR SEEDING. THE FURROWS SHALL BE PERPENDICULAR TO THE GRADE OF THE LAND. IT IS THE RESPONSIBILITY OF THE DEVELOPER/OWNER TO MAINTAIN THIS EROSION CONTROL MEASURE FOR THE DURATION OF THE 2 YEAR WARRANTY PERIOD.
8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT WILL REMAIN AS OUTLOTS, OPEN SPACE, DETENTION PONDS, FOREBAYS, OR TRAILS SHALL RECEIVE 4 INCHES OF TOPSOIL AND SHALL BE SEEDDED. SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING WILL BE REQUIRED. SEED TAGS WILL BE COLLECTED BY THE CITY OF EVANS.
9. GRASS SEED SHALL BE PLANTED WITH A GRASS SEED DRILL (NOT A GRAIN DRILL) AT A DEPTH OF 1/4" TO 1/2". BROADCAST SEEDING OF GRASS SEED IS NOT ACCEPTABLE. STRAW MULCH SHALL BE SPREAD AND CRIMPED INTO THE SOIL AT A RATE OF 4,000 LBS/ACRE. HYDROSEEDING AND HYDROMULCHING IS ACCEPTABLE IN LIEU OF DRILL SEEDING AND CRIMPING OF MULCH STRAW, ONLY IN AREAS THAT ARE INACCESSIBLE TO LANDSCAPING EQUIPMENT, AND MUST BE APPROVED BY THE CITY OF EVANS.
10. THE DEVELOPER/OWNER IS RESPONSIBLE FOR HIRING A CONTRACTOR TO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND ALL OPEN SPACE AREAS, OUTLOTS, DETENTION PONDS, FOREBAYS, AND TRAIL CORRIDORS ARE STABILIZED WITH AT LEAST 80 PERCENT GROWTH OF SEEDED GROUND COVER.

## PROJECT CONTROL NOTES

1. ALL VERTICAL AND HORIZONTAL DATUM INFORMATION SHALL BE OBTAINED USING THE EVANS GEODETIC SURVEY CONDUCTED BY ALBERS, DREXEL & POHLY, INC. JANUARY 9, 1998. A COPY OF FINAL COORDINATES, ELEVATIONS, AND MONUMENT DESCRIPTIONS CAN BE OBTAINED BY CONTACTING THE CITY OF EVANS AT (970) 475-1160.
2. ALL PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DISTURBED DURING CONSTRUCTION MUST BE REFERENCED AND REPLACED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING LOST OR DAMAGED PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DUE TO CONSTRUCTION ACTIVITY.
4. ALL INTERSECTION MONUMENTS AND SECTION CORNERS THAT ARE LOCATED WITHIN A ROADWAY SHALL HAVE A MONUMENT BOX PLACED OVER THE MONUMENT AND SHALL HAVE A ONE FOOT CONCRETE COLLAR PLACED AROUND THE BOX FOR PROTECTION AND EASY ACCESS.

## GRADING NOTES

1. GRADES SHOWN ON PLANS ARE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, REFER TO THE PAVING SECTIONS AND DETAILS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PRODUCED OR REFERENCED FOR THIS PROJECT.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STORM WATER DISCHARGE PERMIT ISSUED FOR THIS PROJECT.
4. EROSION CONTROL MEASURES OUTLINED ON THE EROSION CONTROL/GRADING PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY. (STOCKPILING, STRIPPING, GRADING, ETC.)
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF EVANS, AND THE APPROVED PROJECT CONSTRUCTION DOCUMENTS.
6. A VEHICLE TRACKING CONTROL STRIP IS TO BE PLACED AND MAINTAINED BY THE GENERAL CONTRACTOR AT ALL ACCESS POINTS TO THE CONSTRUCTION SITE.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.
8. NO SOIL STOCKPILE SHALL EXCEED 10 FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING OR EARTHEN BERM. ANY SOIL STOCKPILES REMAINING AFTER THREE MONTHS FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SHALL BE SEEDDED WITH A TEMPORARY COVER CROP OR REMOVED FROM THE SITE.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PLAN ALIGNMENT AND GRADE IN ALL ROADWAYS, PARCELS/LOTS, OPEN SPACES, DITCHES, SWALES, DETENTION PONDS, AND FOREBAYS SO THAT ALL DRAINAGE IS DIRECTED IN A POSITIVE FLOW TO ALL DRAINAGE STRUCTURES INDICATED ON THE CONSTRUCTION PLANS AT THE COMPLETION OF CONSTRUCTION.
10. ALL UTILITIES (NON-POTABLE WATER LINES, POTABLE WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE, DRY UTILITY CROSSINGS (GAS, ELECTRIC, TELEPHONE, AND CABLE T.V.), MANHOLES, AND INLETS) WITHIN THE ROAD RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO ROADWAY SUBGRADE PREPARATION.
11. SUBGRADE SHALL BE RIPPED, COMPACTED, AND SHAPED PER CITY STANDARDS AND SPECIFICATIONS. THE CITY OF EVANS ENGINEERING DIVISION SHALL BE NOTIFIED 24 HOURS IN ADVANCE TO SCHEDULE A PROOF ROLL OF ALL SUBGRADE WHERE ROADWAYS, SIDEWALKS, PANS, APRONS, CURB AND GUTTER, AND OTHER PUBLIC IMPROVEMENTS WILL BE PLACED.
12. ALL PARKWAYS, AND PROPERTIES ADJACENT TO SIDEWALKS, SHALL BE BACKFILLED AND COMPACTED IN A TIMELY MANNER TO PREVENT WEATHER RELATED STANDING WATER FROM ENTERING THE ROADWAY SUBGRADE. THE GENERAL CONTRACTOR SHALL BE HELD LIABLE FOR ANY AND ALL DAMAGE CAUSED BY FAILURE TO BACKFILL THESE AREAS IN A TIMELY MANNER.
13. TESTING DATA BY A THIRD-PARTY TESTING COMPANY FOR COMPACTION OF ALL UTILITY TRENCHES, SUBGRADE, AND BASE MATERIAL IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. EMAIL REPORTS TO THE ENGINEERING DIVISION ATTENTION MARK OBERSCHMIDT AT [MOBERSCHMIDT@EVANS.COLORADO.GOV](mailto:MOBERSCHMIDT@EVANS.COLORADO.GOV).

## POTABLE WATER LINE NOTES

1. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT [WWW.EVANS.COLORADO.GOV](http://WWW.EVANS.COLORADO.GOV).
2. ALL WATER DISTRIBUTION LINE PIPE SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE. TRANSMISSION LINES 16 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE, STEEL, OR PRE-TENSIONED CONCRETE STEEL CYLINDER PIPE.
3. ALL PVC PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C-900 AND C-905, LATEST REVISIONS, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS AND / OR EXCEPTIONS: ALL AWWA CLASS 150 PIPE SHALL MEET THE REQUIREMENT OF AWWA DR-18 AND AWWA CLASS 200 SHALL MEET THE REQUIREMENT OF AWWA DR-14. SOLVENT CEMENT JOINTS ARE STRICTLY PROHIBITED. EACH LENGTH OF PIPE WILL BE A STANDARD LENGTH OF 20 FEET. RANDOM LENGTHS SHALL NOT BE ACCEPTABLE.
4. PIPE THAT WILL BE STORED OUTSIDE FOR MORE THAN 30 DAYS SHALL BE COVERED WITH AN OPAQUE MATERIAL, AND AIR CIRCULATION PROVIDED TO PROTECT THE PIPE FROM EXPOSURE TO WEATHERING ELEMENTS.
5. THE MINIMUM DIAMETER FOR WATER MAINS IN RESIDENTIAL AREAS, INCLUDING CUL-DE-SACS, SHALL BE 8 INCHES. ALL SCHOOLS, SHOPPING CENTERS, BUSINESS PARKS, INDUSTRIAL PARKS, AND HIGH- DENSITY RESIDENTIAL AREAS SHALL BE LOOPED WITH MAINS AT LEAST 8 INCHES IN DIAMETER.
6. ALL WATER MAINS, FIRE HYDRANTS, AND TRACER SERVICES SHALL HAVE A MINIMUM COVER OF 4.5 FEET, AND A MAXIMUM COVER OF 5.5 FEET.
7. ALL PVC PIPE SHALL HAVE COPPER TRACER WIRE PLACED ON TOP OF THE PIPE AND DAYLIGHTED AT A LOCATOR BOX LOCATED BEHIND ALL FIRE HYDRANTS.
8. PIPE DEFLECTION FOR DUCTILE IRON PIPE 8 INCHES TO 12 INCHES IN DIAMETER SHALL BE 5 DEGREES AND 3 DEGREES FOR PIPE 14 INCHES TO 64 INCHES. PIPE DEFLECTION FOR PVC PIPE SHALL BE NO GREATER THAN 3 DEGREES.
9. ALL MAINS SHALL BE INSTALLED IN DEDICATED STREETS. POTABLE WATER LINES ARE TO MAINTAIN A 10 FEET MINIMAL HORIZONTAL SEPARATION (EDGE TO EDGE) BETWEEN SANITARY SEWER LINES, AND NON-POTABLE WATER LINES.
10. DURING CONSTRUCTION WHENEVER THE NEW WATER LINE PIPE IS LEFT UNATTENDED TEMPORARY PLUGS MUST BE INSTALLED AT ALL OPENINGS.
11. WATER LINE DISINFECTION SHALL BE ACCOMPLISHED USING TABLET-FORM HYPOCHLORITE OR BY CONTINUOUS FEED. THE HYPOCHLORITE TABLET SHALL BE AFFIXED TO THE INSIDE (TOP) OF PIPE WITH AN APPROVED ADHESIVE. DOSAGE SHALL BE CALCULATED FOR CONCENTRATION OF CHLORINE EQUAL TO 25 MG PER LITER OF WATER VOLUME OF INSTALLED PIPE. REFER TO TABLE 5.04 OF THE EVANS STANDARDS AND SPECIFICATIONS TO CALCULATE THE DOSE OF CHLORINE REQUIRED.
12. VALVES SHALL NOT BE LOCATED IN CONCRETE AREAS, SUCH AS SIDEWALKS, CROSSPANS, APRONS, OR CURB AND GUTTER. VALVES SHALL BE INSTALLED AT A DISTANCE OF 5 FEET FROM TEES AND CROSSES. INSTALL DUCTILE IRON PIPE BETWEEN THE TEE / CROSS AND THE VALVE. REFER TO DETAIL WA-11.
13. ONCE ASPHALT PAVING IS COMPLETE ALL VALVES SHALL BE RAISED TO 1/4 INCH BELOW FINAL PAVEMENT GRADE AND HAVE A 12 INCH CONCRETE COLLAR PLACED AROUND THE VALVE LID FOR REINFORCEMENT. THE CONCRETE COLLAR SHOULD BE MEASURED FROM THE OUTSIDE DIAMETER OF THE VALVE LID.
14. ALL WATER VALVE LIDS SHALL BE CAST DUCTILE IRON AND LABELED WITH THE WORD "WATER".
15. ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, FIRE HYDRANTS, AND BLOWOFF ASSEMBLIES SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS.
16. THE STANDARD FIRE HYDRANT ASSEMBLY SHALL INCLUDE A SWIVEL TEE WITH GATE VALVE, RESTRAINED JOINTS, THRUST BLOCKS, AND USE 6 INCH DUCTILE IRON PIPE TO THE HYDRANT.
17. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS SHALL BE 500 FEET IN RESIDENTIAL AREAS, AND 300 FEET IN BUSINESS AREAS.
18. FIRE HYDRANT BRANCH LINES SHALL BE INSTALLED AT 90 DEGREES TO THE STREET MAINS. THE HYDRANT SHALL BE SET AT THE END OF THE BRANCH LINE AND SHALL FACE THE BRANCH LINE. FIRE HYDRANTS SHALL BE SET SO THAT THE MAIN PUMPER VALVE NUT IS BETWEEN 21 INCHES TO 25 INCHES ABOVE FINISHED GRADE.
19. ALL RESIDENTIAL WATER SERVICES SHALL BE 1/2 INCH TYPE "K" COPPER AND USE COMPRESSION FITTINGS ONLY. UNLESS OTHERWISE NOTED, OR APPROVED.
20. WATER LINE TESTING DOCUMENTS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. TYPICAL TESTING DATA INCLUDES BUT ARE NOT LIMITED TO THIRD PARTY PRESSURE TESTING, BACTERIAL TESTING, HIGH AND LOW CHLORINE TESTING, AND TRENCH COMPACTION TESTING.
21. THE CITY OF EVANS IS RESPONSIBLE FOR COLLECTING AND SENDING THE BACTERIAL WATER SAMPLE TO THE WELD COUNTY HEALTH DEPARTMENT FOR TESTING. THE CITY OF EVANS ALSO CONDUCTS THE HIGH AND LOW CHLORINE TESTING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SCHEDULE ALL TESTING.
22. ALL NEW WATER LINES ARE TO BE ISOLATED, TESTED, AND APPROVED BY THE CITY OF EVANS PRIOR TO OPENING THE NEW LINE TO THE EXISTING WATER SYSTEM.
23. WATER VALVE ELEVATIONS ARE APPROXIMATE AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS.

## ROADWAY IMPROVEMENT NOTES

1. IMPROVEMENT PROJECTS WHICH DO NOT HAVE A DEVELOPER'S AGREEMENT SHALL BE REQUIRED BY THE CITY OF EVANS TO EXECUTE AN APPLICATION AND PERMIT FOR EXCAVATION / CONSTRUCTION IN PUBLIC RIGHT OF WAY.
2. CONCRETE AND ASPHALTIC MIX DESIGN SHALL BE SUBMITTED BY THE SUPPLIER AND APPROVED BY THE CITY OF EVANS PRIOR TO ROADWAY CONSTRUCTION.
3. ALL EXISTING CURB AND GUTTER, SIDEWALK, AND ADA RAMPS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE GENERAL CONTRACTOR'S EXPENSE, PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
4. WHEN AN EXISTING STREET IS TO BE CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. SAW CUTS SHOULD BE A CLEAN STRAIGHT VERTICAL LINE PARALLEL OR PERPENDICULAR TO THE FLOW OF TRAFFIC. PATCHES SHALL BE 1 INCH GREATER IN DEPTH THAN THE EXISTING ASPHALT MATERIAL THAT WAS REMOVED.
5. ALL LARGE PATCHES (GREATER THAN 10' WIDE AND 20' LONG) SHALL BE PAVED WITH BY AN ASPHALT LAY-DOWN MACHINE. IN STREETS WHERE MORE THAN ONE CUT IS MADE, AN OVERLAY OF THE ENTIRE STREET WIDTH, INCLUDING THE PATCHED AREA MAY BE REQUIRED.
6. STREET SUBGRADES SHALL BE SCARIFIED THE TOP 12 INCHES AND RE-COMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED BY SCHEDULING A PROOF ROLL WITH THE CITY OF EVANS AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION.
7. PRIOR TO PAVEMENT INSTALLATION BASE MATERIAL SHALL BE INSPECTED BY A PROOF ROLL SCHEDULED WITH THE CITY OF EVANS AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION.
8. VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES ARE REQUIRED TO BE BROUGHT UP TO THE SUBGRADE LEVEL PRIOR TO PAVEMENT INSTALLATION. ALL LOCATIONS AND DISTANCES OF THE VALVE BOXES AND MANHOLES SHOULD BE CLEARLY LABELED ON THE CURB AND GUTTER IN WHITE PAINT. ONCE THE PAVEMENT IS INSTALLED ALL VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES SHALL BE RAISED TO 1/4" BELOW ASPHALT GRADE AND HAVE A ONE FOOT CONCRETE COLLAR INSTALLED AROUND THE OUTER DIAMETER OF THE FITTINGS.
9. NUCLEAR GAUGE TESTING DATA BY A THIRD-PARTY TESTING COMPANY FOR COMPACTION AND MOISTURE CONTENT OF ALL UTILITY TRENCHES, SUBGRADE, AND BASE MATERIAL IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. EMAIL REPORTS TO [MOBERSCHMIDT@EVANS.COLORADO.GOV](mailto:MOBERSCHMIDT@EVANS.COLORADO.GOV).
10. CONCRETE CURB AND GUTTER, SIDEWALKS, AND STREET PAVING SHALL NOT BEGIN UNTIL ALL TESTING DATA HAS BEEN RECEIVED BY THE CITY OF EVANS, AND SUBGRADE PROOF ROLLS BY THE CITY OF EVANS ENGINEERING DIVISION HAS BEEN COMPLETED.
11. NUCLEAR GAUGE TESTING DATA BY A THIRD-PARTY TESTING COMPANY FOR COMPACTION, VOIDS, AND SEGREGATION OF THE ASPHALT MAT IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. EMAIL REPORTS TO [MOBERSCHMIDT@EVANS.COLORADO.GOV](mailto:MOBERSCHMIDT@EVANS.COLORADO.GOV).
12. THE GENERAL CONTRACTOR SHALL MAINTAIN ALL NECESSARY BARRICADES, PERMANENT SIGNS, TEMPORARY SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES DAILY DURING CONSTRUCTION AND BETWEEN PHASES OF CONSTRUCTION.
13. THE ROADWAY AND RELATED WORK AREAS SHALL BE LEFT WITH A CLEAN AND FINISHED APPEARANCE. IN NO CASE SHALL MATERIAL REMOVED FROM THE RIGHT-OF-WAY BE STOCKPILED AND LEFT IN SUCH A MANNER AS TO POSE A HAZARD TO THE PUBLIC. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SIDEWALKS, CURB AND GUTTERS, PANS, AND DRIVEWAYS AT THE CONSTRUCTION SITE AND DISPOSE OF THE DEBRIS IN AN APPROPRIATE LOCATION.

## STORM DRAINAGE NOTES

1. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY". FOR INFORMATION CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, S0CD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3575. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSED AT [WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMTHTML](http://WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMTHTML).
2. IF THE CONSTRUCTION SITE IS ONE ACRE OR GREATER IN SIZE, OR IF ANY FORM OF DE-WATERING IS TO BE USED ON THE CONSTRUCTION SITE, THEN PROOF OF A STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT IS REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
3. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
4. THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.
5. ALL STORM WATER CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT [WWW.EVANS.COLORADO.GOV](http://WWW.EVANS.COLORADO.GOV).
6. ALL STORM WATER PIPE SHALL BE CONCRETE REINFORCED PIPE AND SHALL MEET ASTM C-76 CLASS III STANDARDS, UNLESS NOTED, OR APPROVED OTHERWISE. ALL STORM WATER PIPE JOINTS SHALL BE INTEGRAL BELL AND SPIGOT WITH RUBBER O-RING TYPE GASKETS PER ASTM C-361.
7. STORM SEWER MANHOLES SHALL BE 4 FOOT DIAMETER FOR 30 INCH PIPE OR LESS, AND 5 FOOT DIAMETER FOR 36 INCH PIPE OR LARGER. FOR SIZES ABOVE 36 INCH, CONCRETE JUNCTION BOXES, OR PRE-CAST MANHOLE TEES MUST BE DETAILED BY THE DESIGN ENGINEER.
8. ALL PIPES ENTERING THE MANHOLE SHALL BE COMPLETELY GROUTED WITH NON-SHRINK GROUT AROUND THE OUTSIDE DIAMETER OF THE PIPE AND THE MANHOLE WALLS.
9. ALL STORM SEWER MANHOLE LIDS AND STORM SEWER INLET LIDS SHALL BE CAST DUCTILE IRON AND BEAR THE "FISH" LOGO WITH THE WORDING "NO DUMPING DRAINS TO RIVER".
10. MANHOLE TESTING MAY BE NECESSARY IF THE MANHOLE IS LOCATED WITHIN AN AREA OF HIGH GROUND WATER.
11. MANHOLE ELEVATIONS ARE APPROXIMATE AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PAVING CONTRACTOR SHALL USE NO MORE THAN 4 CONCRETE ADJUSTMENT RINGS, OR AN APPROVED EQUAL TO MATCH FINAL PAVEMENT ELEVATIONS.
12. ALL MANHOLE OR INLET STATIONING REFERS TO THE CENTER OF THE MANHOLE, OR THE CENTER OF THE INLET. ALL PIPE LENGTHS ARE MEASURED TO THE CENTER OF THE MANHOLE AND THE INSIDE EDGE OF THE INLET.
13. THE CITY OF EVANS SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF STORM DRAINAGE FACILITIES LOCATED ON PRIVATE PROPERTY. MAINTENANCE OF ONSITE DRAINAGE STRUCTURES AND FACILITIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER / OWNER UNTIL THE FINAL ACCEPTANCE OF THE PROJECT IS COMPLETE.

## GENERAL UTILITY NOTES

1. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES. UNTIL SUCH TIME A PERMANENT PATCH CAN BE INSTALLED.
2. DURING CONSTRUCTION WHENEVER ANY PIPELINE IS LEFT UNATTENDED, TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS. TEMPORARY PLUGS SHALL BE WATERIGHT, AND OF SUCH DESIGN AS TO PREVENT CHILDREN AND ANIMALS FROM ENTERING THE PIPE.
3. THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER, THE NAME OF A CONTACT PERSON, AND AN EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
4. PIPE SHALL BE LAID UPSTREAM WITH THE SPIGOT ENDS POINTING DOWNSTREAM. ALL PIPES SHALL BE PLACED TRUE TO LINE AND GRADE WITH ENDS ABUTTING, CAREFULLY CENTERED, AND WITH A SMOOTH INVERT AT THE JOINT.
5. COMPACTION OF ALL UTILITY TRENCHES INCLUDING DRY UTILITIES SHALL BE PERFORMED TO 95% DENSITY OF THE STANDARD PROCTOR +/- 2%.
6. THE CONTRACTOR SHALL PROVIDE 4" PVC SLEEVES FOR DRY UTILITIES CROSSING THE ROADWAY RIGHT-OF-WAY. THE LOCATIONS AND AMOUNTS SHALL BE DETERMINED BY THE INDIVIDUAL UTILITY COMPANIES BUT SHALL APPEAR ON THE MASTER UTILITY PLAN OF THE NEW DEVELOPMENT. VERIFY LOCATIONS WITH ALL UTILITY COMPANIES SUPPLYING SERVICES TO THE DEVELOPMENT.
7. ALL CURB STOP BOXES (MUELLER VALVES) SHALL BE PLACED WITHIN UTILITY EASEMENTS IN FRONT YARDS LOCATED AT THE PROPERTY LINE.
8. ALL POTABLE WATER, NON-POTABLE WATER, AND SANITARY SEWER SERVICES SHALL HAVE THEIR APPROXIMATE LOCATIONS STAMPED IN THE CONCRETE CURB AND GUTTER WITH THE INITIALS "W", "NP", AND "S" RESPECTIVELY. ADDITIONAL STAMPS FOR GAS "G" AND ELECTRIC "E" MAY ALSO BE NECESSARY AND ARE AT THE DISCRETION OF THE CONTRACTOR TO PERFORM.



Know what's below.  
Call before you dig.

DATE	REVISION	NO.	PROJECT:
8/14/2020 <td>FOR CONSTRUCTION<td>2675-00<td>08/13/20</td></td></td>	FOR CONSTRUCTION <td>2675-00<td>08/13/20</td></td>	2675-00 <td>08/13/20</td>	08/13/20
			DATE:
			DESIGNER: JNR
			DRAFTER: JNR
			CHECKED BY: TGR
			APPROVED BY: TGR

PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR  
BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT

## GENERAL NOTES

BAY AT THE LANDINGS SUBDIVISION  
SE 1/2 OF SECTION 24, T5N, R66W, 6TH P.M., CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO

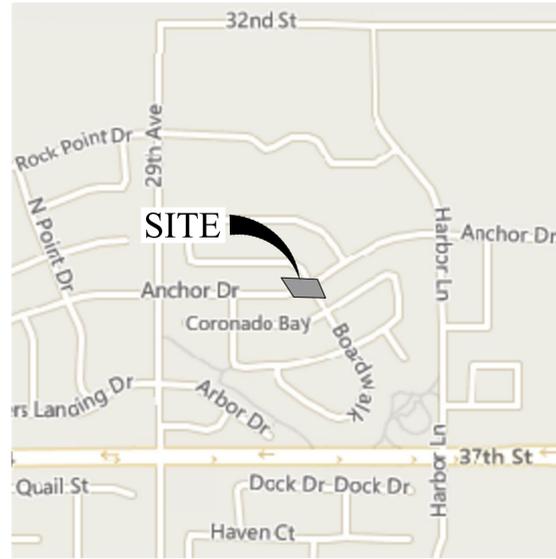


**COFFEY**  
ENGINEERING & SURVEYING  
4045 St. Cloud Drive, Suite 180  
Loveland, CO 80538  
[P] 970-622-2095 [F] 307-742-7403

DWG. NAME	C-2
SHEET NO.	2 of 7

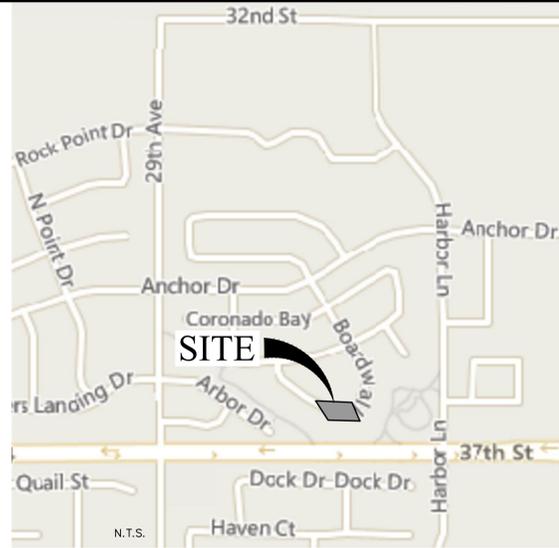






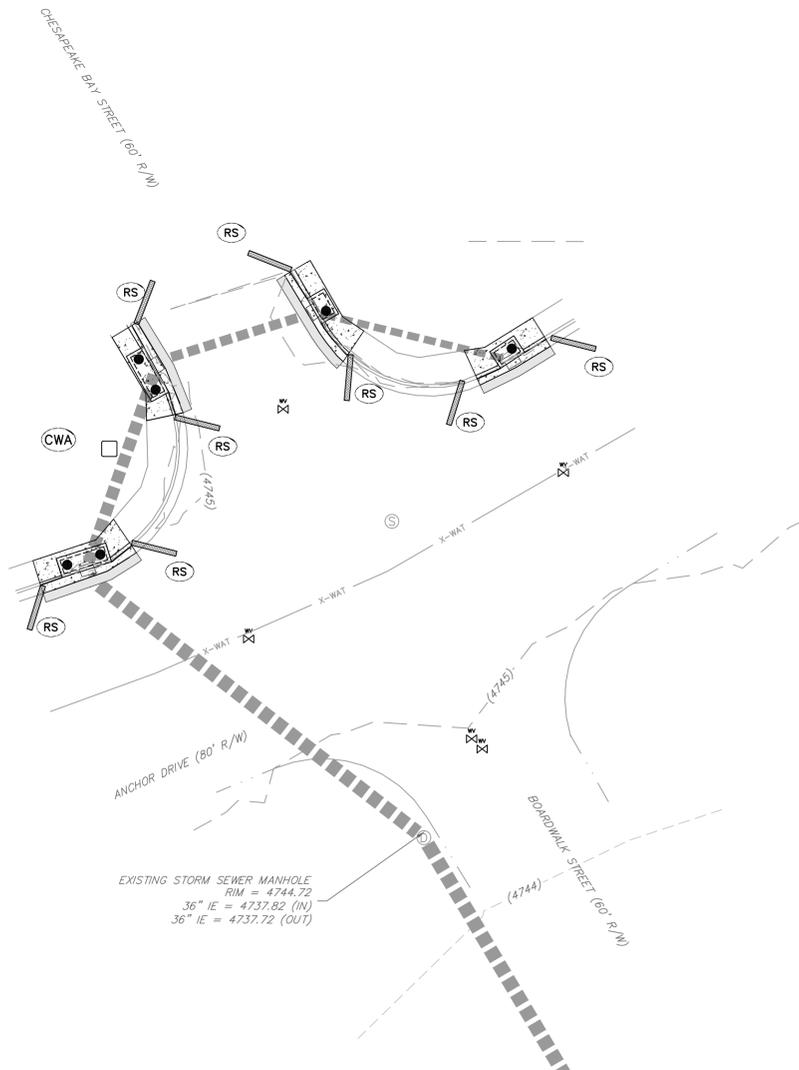
**KEY MAP**

N.T.S.



**KEY MAP**

N.T.S.



**LEGEND:**

- EXISTING SIGN
- EXISTING TELEPHONE PEDESTAL
- EXISTING CABLE/TV PEDESTAL
- EXISTING ELECTRICAL PEDESTAL
- EXISTING IRRIGATION VALVE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING LIGHT POLE
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- NUMBER OF PROPOSED PARKING SPACES
- PROPERTY BOUNDARY
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- SPILL CURB & GUTTER
- SIDEWALK CHASE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- EXISTING SWALE
- PROPOSED SWALE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING FIBER OPTIC LINE
- PROPOSED WATER LINE
- PROPOSED FIRE LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING FENCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SLOPE LABEL
- EXISTING SPOT ELEVATION

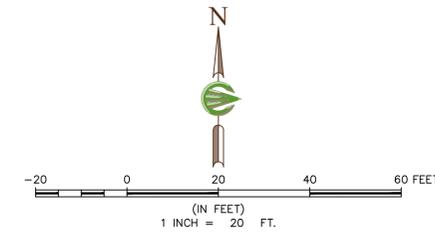
**EROSION BMP LEGEND**

- ROCK SOCK
- PROVIDE PORTABLE TEMPORARY CONCRETE WASHOUT ON SITE DURING POURS AND REMOVE CONCRETE DAILY.

**SURVEY CONTROL NOTES**

**BASIS OF ELEVATION:**  
 NAVD88 ADJUSTED ELEVATION. CITY OF EVAN BM#5 A 2" ALUMINUM CAP IN NORTHWEST CORNER OF INTERSECTION 37TH STREET AND HARBOR LANE, 2" ALUMINUM CAP SET IN SOUTH WING WALL OF 42" RCP, 247' NORTH OF TBC 37TH STREET, 330' WEST OF WEST TBC HARBOR LANE. ELEVATION=4726.84

**BASIS OF BEARING:**  
 CONSIDERING THE EAST LINE OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 9, TOWNSHIP 5 NORTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEARING NORTH 00°39'24" WEST, MEASURED FROM A NO. 6 REBAR OF UNKNOWN LENGTH WITH AN ATTACHED 3/4" ALUMINUM CAP MARKED BY LICENSE NO. 7242 IN MONUMENT BOX AT THE SOUTH END TO A NO. 6 REBAR OF UNKNOWN LENGTH WITH AN ATTACHED 2" ALUMINUM CAP MARKED BY LICENSE NO. 8259 IN MONUMENT BOX AT THE NORTH END, AS SHOWN ON THE RECORDED SUBDIVISION PLAT FOR PLATTE VALLEY SUBDIVISION 3RD FILING, ON RECORD AT THE WELD COUNTY CLERK AND RECORDER'S OFFICE, RECEPTION NO. 1796736.



DATE	8/14/2020
REVISION	
FOR CONSTRUCTION	
NO.	
PROJECT:	2675.00
DATE:	08/13/20
DESIGNER:	JMR
DRAFTER:	JMR
CHECKED BY:	TGR
APPROVED BY:	TGR

PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR  
 BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT

**EROSION CONTROL**

BAY AT THE LANDINGS SUBDIVISION  
 SE 1/4 OF SECTION 24, T5N, R66W, 6TH P.M., CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO



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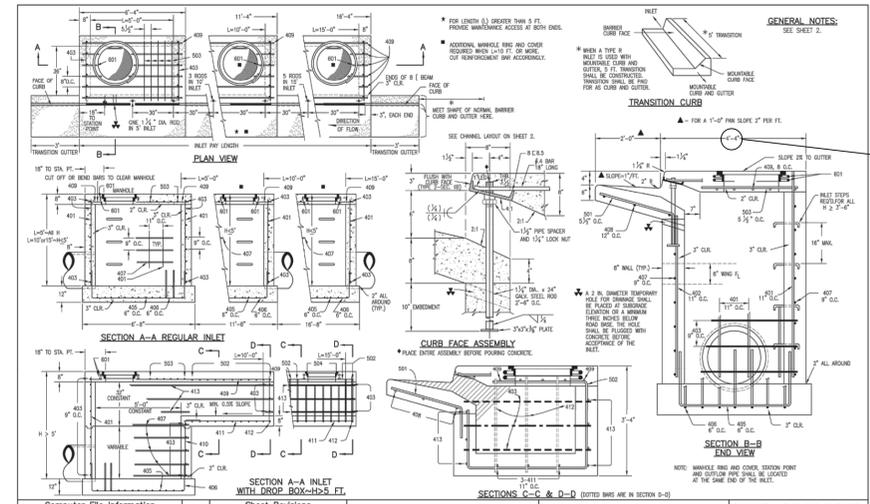
DWG. NAME  
**C-5**

SHEET NO.  
 5 OF 7

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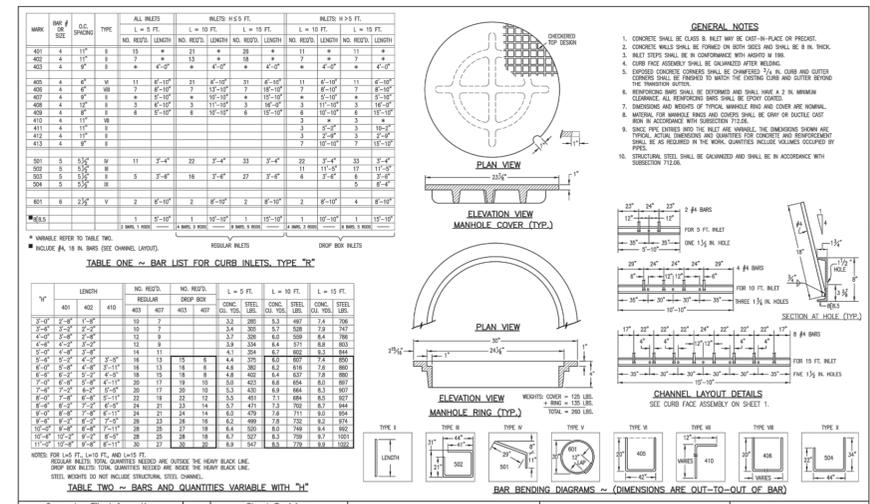
CITY OF EVANS DRAINAGE CRITERIA MANUAL  
 CDDOT TYPE R INLET (SHEET 1 OF 2)  
 FIGURE 6.2.1



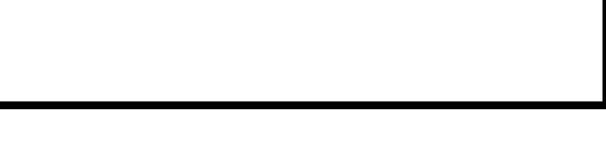
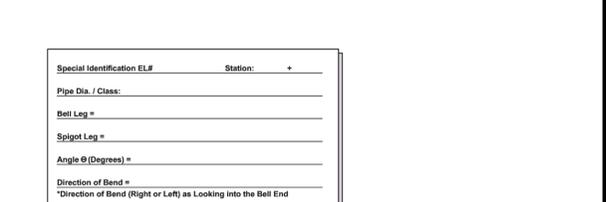
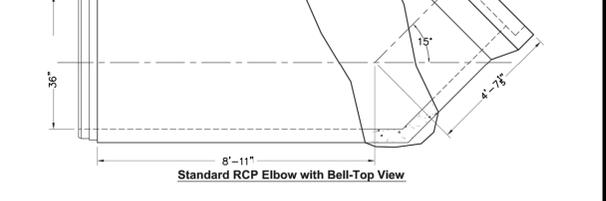
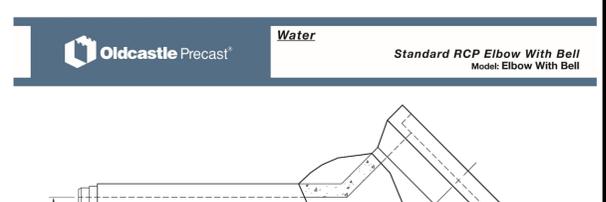
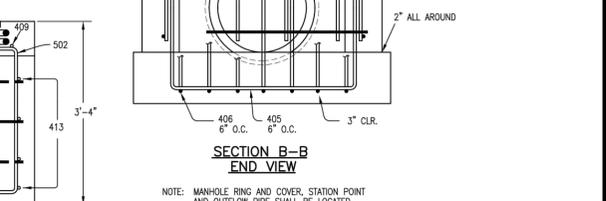
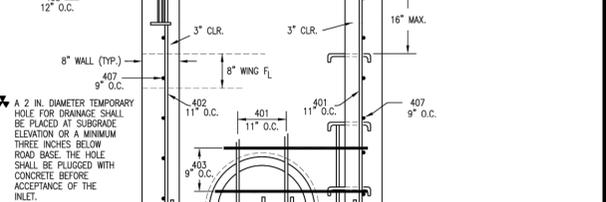
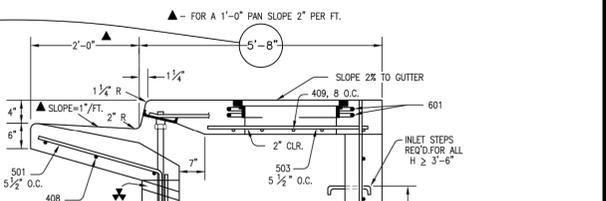
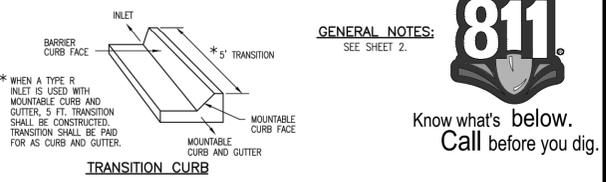
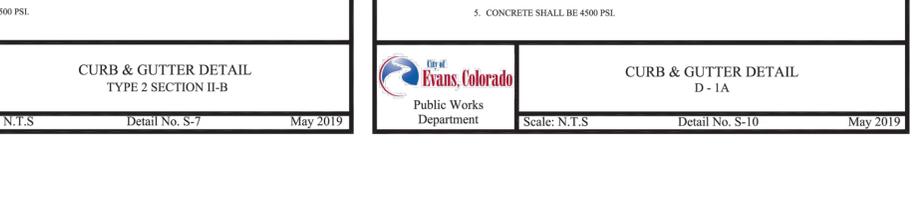
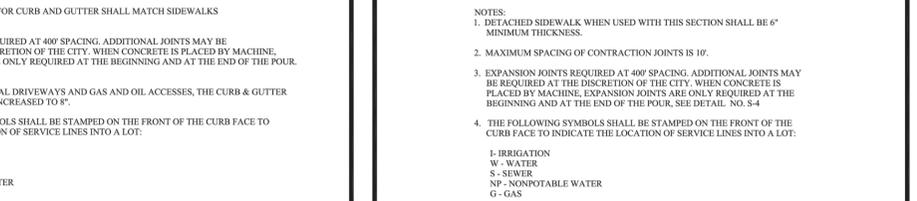
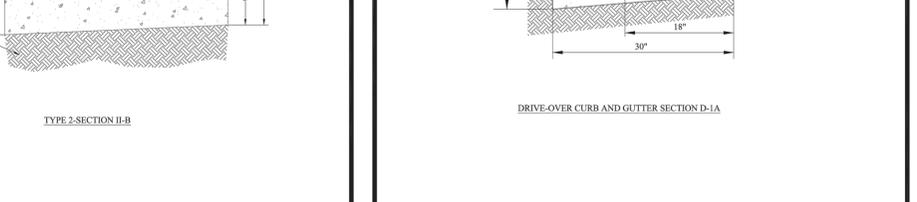
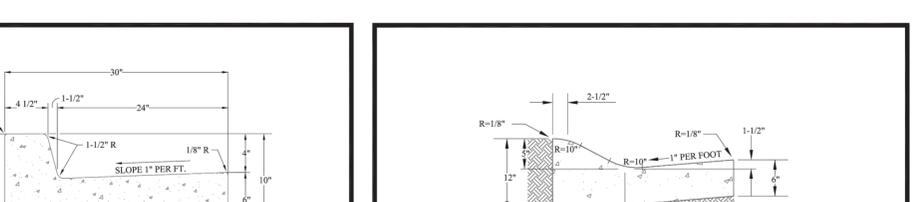
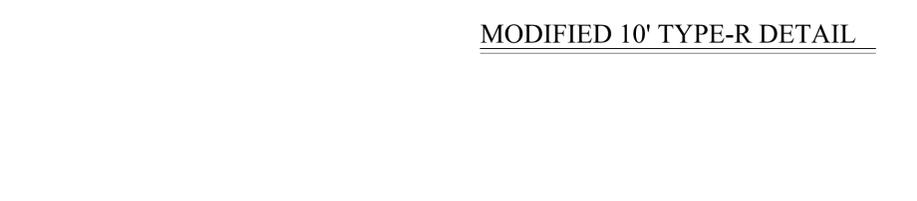
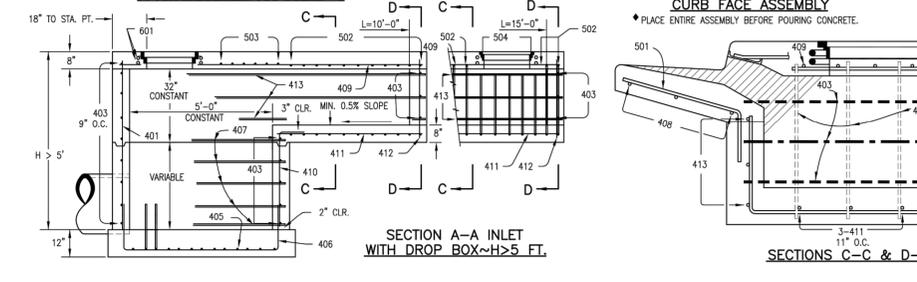
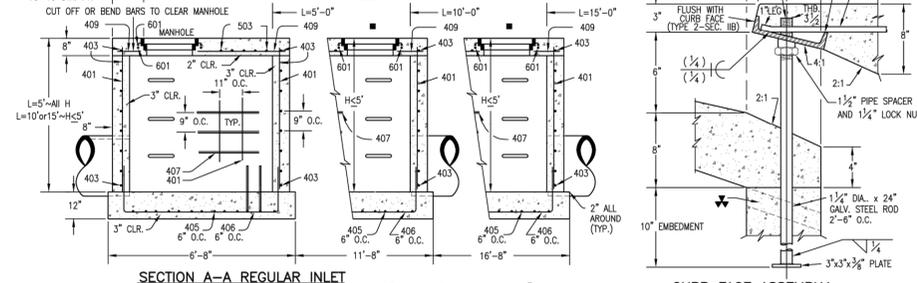
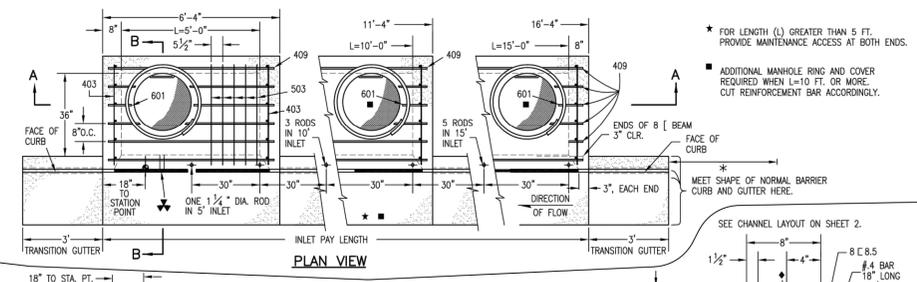
Computer File Information	Colorado Department of Transportation	STANDARD PLAN NO.
Revision Sheet: 01/04/08	2011 East Arapahoe Avenue Denver, Colorado 80202 Phone: (303) 792-9000 Fax: (303) 792-9000	M-604-12
Sheet Revisions	Project Development Branch SRJ/LTA	Sheet No. 1 of 2



CITY OF EVANS DRAINAGE CRITERIA MANUAL  
 CDDOT TYPE R INLET (SHEET 2 OF 2)  
 FIGURE 6.2.1



Computer File Information	Colorado Department of Transportation	STANDARD PLAN NO.
Revision Sheet: 07/04/08	2011 East Arapahoe Avenue Denver, Colorado 80202 Phone: (303) 792-9000 Fax: (303) 792-9000	M-604-12
Sheet Revisions	Project Development Branch SRJ/LTA	Sheet No. 2 of 2



**811**  
 Know what's below.  
 Call before you dig.

**GENERAL NOTES:**  
 SEE SHEET 2.  
 \* FOR LENGTH (L) GREATER THAN 5 FT. PROVIDE MAINTENANCE ACCESS AT BOTH ENDS.  
 \* ADDITIONAL MANHOLE RING AND COVER REQUIRED WHEN L=10 FT. OR MORE. CUT REINFORCEMENT BAR ACCORDINGLY.  
 \* WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 5 FT. TRANSITION SHALL BE CONSTRUCTED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.  
 \* FOR A 1'-0" PAN SLOPE 2" PER FT.

DATE	8/14/2020
REVISION	
NO.	2675.00
PROJECT	08/13/20
DESIGNER	JMR
DRAFTER	JMR
CHECKED BY	TGR
APPROVED BY	TGR

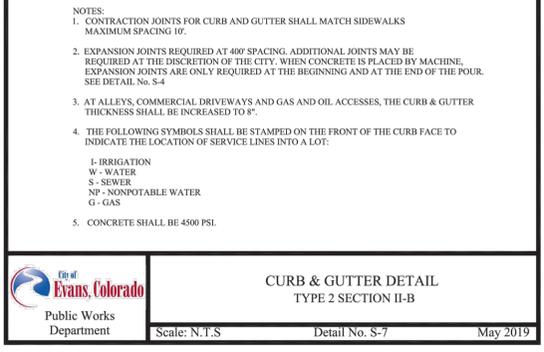
PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR  
 BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT  
**DETAILS SHEET 1**  
 BAY AT THE LANDINGS SUBDIVISION  
 SE 1/2 OF SECTION 24, T5N, R66W, 6TH P.M., CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO



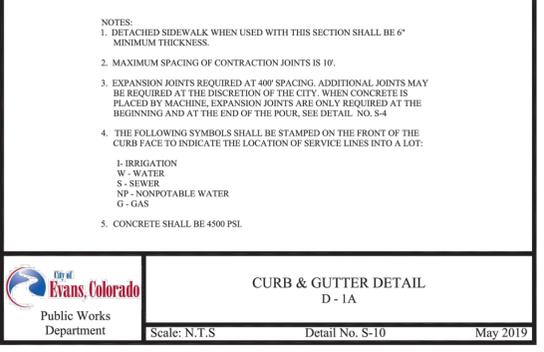
**COFFEY**  
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 4045 St. Cloud Drive, Suite 180  
 Loveland, CO 80538  
 [P] 970-622-2095 [F] 307-742-7403



DWG. NAME  
**C-6**  
 SHEET NO.  
 6 of 7



Public Works Department  
 Scale: N.T.S. Detail No. S-7 May 2019



Public Works Department  
 Scale: N.T.S. Detail No. S-10 May 2019

Special Identification EL# Station: +

Pipe Dia. / Class: \_\_\_\_\_

Bell Leg = \_\_\_\_\_

Spigot Leg = \_\_\_\_\_

Angle θ (Degrees) = \_\_\_\_\_

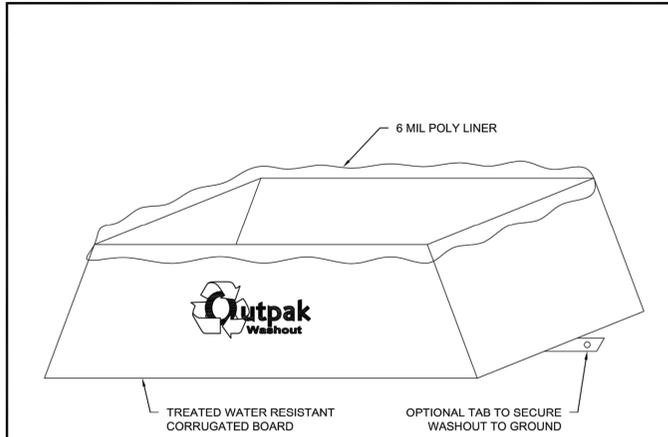
Direction of Bend = \_\_\_\_\_  
 \*Direction of Bend (Right or Left) as Looking into the Bell End

Drawing #	Project	Date

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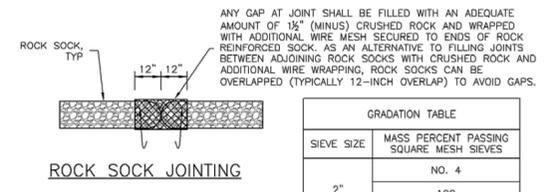
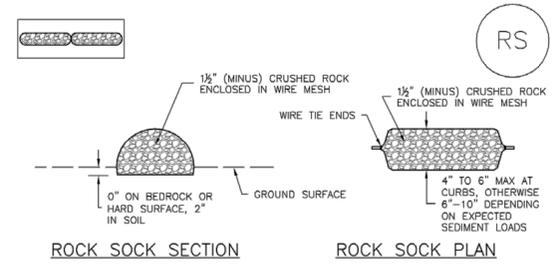
**NOTES:**

1. THE WASHOUT SHALL BE INSTALLED PRIOR TO USING MATERIALS THAT REQUIRE WASHOUT ON THIS PROJECT.
2. AS NECESSARY, SIGNS SHALL BE PLACED THROUGHOUT THE SITE TO INDICATE THE LOCATION OF THE WASHOUT.
3. THE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR LIQUID WASTE.
4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE FACILITY.
5. DO NOT WASHOUT INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
6. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
7. LOCATE WASHOUT AT LEAST 50' (15 METERS) FROM STORM DRAIN, OPEN DITCHES, OR WATER BODIES.
8. THE WASHOUT SHALL BE USED ONLY FOR NON-HAZARDOUS WASTES.

**CORRUGATED WASHOUT SPECIFICATIONS**



**SC-5 Rock Sock (RS)**



**GRADATION TABLE**

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
2"	100
1 1/2"	90 - 100
1"	20 - 55
3/4"	0 - 15
3/8"	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

**ROCK SOCK INSTALLATION NOTES**

1. SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

**RS-1. ROCK SOCK PERIMETER CONTROL**

**ROCK SOCK MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NO.	REVISION	DATE
	FOR CONSTRUCTION	8/14/2020

PROJECT: 2675.00  
 DATE: 08/13/20  
 DESIGNER: JMR  
 DRAFTER: JMR  
 CHECKED BY: TGR  
 APPROVED BY: TGR

PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR  
 BOARDWALK AND ANCHOR DRIVE INLET REPLACEMENT  
**DETAILS SHEET 2**  
 BAY AT THE LANDINGS SUBDIVISION  
 SE 1/2 OF SECTION 24, T5N, R66W, 6TH P.M., CITY OF EVANS, COUNTY OF WELD, STATE OF COLORADO



**COFFEY**  
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DWG. NAME: C-7  
 SHEET NO.: 7 of 7