

# PAINT BRUSH HILLS FILING 13E

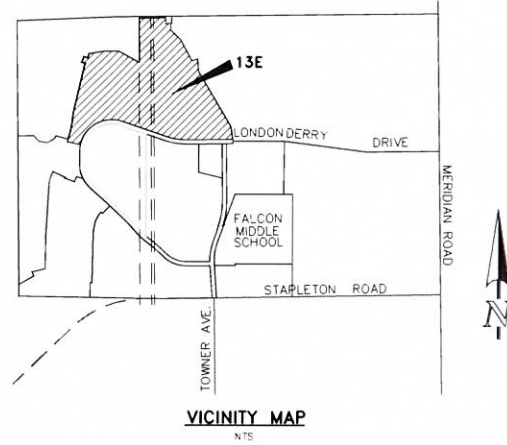
## COUNTY OF EL PASO, STATE OF COLORADO

### CONSTRUCTION PLANS

JULY 2018

#### GENERAL CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY DEVELOPMENT SERVICES DEPARTMENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
- ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FINISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
- ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR ROODING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25" OR 22.5" BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35; PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN)



*Responses*

A geotech report was not included with the application. Design engineer to verify if the report included recommendations to provide underdrain.

If no underdrain is provided then add a note that if underdrain is needed in the future then it shall be installed by the developer behind the sidewalk. This will be identified as either a notation or condition of approval.

- #### AGENCIES:
- OWNER/DEVELOPER: AEROPLAZA FOUNTAIN LLC & HEIDI LLC, 212 NORTH WAHSATCH AVENUE, SUITE 301, COLORADO SPRINGS, CO 80903, MR. JEFF MARK, (719) 635-3200
- CIVIL ENGINEER: CLASSIC CONSULTING ENGINEERS & SURVEYORS, 619 N. CASCADE AVENUE, SUITE 200, COLORADO SPRINGS, COLORADO 80903, MR. MARC A. WHORTON, P.E. (719) 785-2802
- COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT, 2880 INTERNATIONAL CIRCLE, SUITE 110, COLORADO SPRINGS, COLORADO 80910, MR. GILBERT LAFFORCE (719) 520-7945
- METRO DISTRICT: PAINT BRUSH HILLS METRO DISTRICT, 9830 LIBERTY GROVE DR, FALCON, CO 80831, MR. LEON GOMES (719) 495-8188
- GAS COMPANY: BLACKHILLS ENERGY, 37 WIDEFIELD BOULEVARD, WIDEFIELD, COLORADO 80911, MR. GEORGE M. PETERSON, (719) 392-3491
- ELECTRIC COMPANY: MOUNTAIN VIEW ELECTRIC, P.O. BOX 1600, LIMON, COLORADO 80828, MR. LES ULFERS, (719) 495-2283
- FIRE DEPARTMENT: FALCON FIRE PROTECTION DISTRICT, 7030 N. MERIDIAN RD., FALCON, COLORADO 80831, CHIEF HARMG (719) 495-4050
- TELEPHONE COMPANY: CENTURY LINK (LOCATORS) 811, AT & T (LOCATORS) 811

#### STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL, VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III ROP UNLESS OTHERWISE NOTED AND APPROVED BY DSD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DSD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

#### BENCHMARKS:

- SOUTH 1/4 CORNER OF SECTION 26, TOP OF 2 1/2" ALUMINUM CAP, ELEV. = 7140.91, VERTICAL DATUM = NVD 1929
- SOUTHWEST CORNER OF SECTION 25, TOP OF 3 1/4" ALUMINUM CAP, ELEV. = 7136.34, VERTICAL DATUM = NVD 1929

#### BASIS OF BEARINGS:

THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEING MONUMENTED AT THE EAST BY A 3.25" ALUMINUM CAP STAMPED P.L.S. 12103, PRINCIPAL MERIDIAN AND AT THE WEST END BY A NO. 6 REBAR WITH 2.5" ALUMINUM CAP STAMPED P.L.S. 4842, ASSUMED TO BEAR N89°02'00"W, A DISTANCE OF 2614.11 FEET AS SHOWN ON A LAND SURVEY PLAT BY W. K. CLARK & ASSOCIATES, DATED AUGUST 13, 1999.

#### APPROVALS:

##### DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLECT, ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

MARC A. WHORTON, COLORADO P.E. #37155 DATE \_\_\_\_\_  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

##### OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

MR. JEFF MARK DATE \_\_\_\_\_  
AEROPLAZA FOUNTAIN LLC AND HEIDI LLC

##### EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JENNIFER IRVINE, P.E. DATE \_\_\_\_\_  
COUNTY ENGINEER / ECM ADMINISTRATOR

#### SIGNING AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON B" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-B REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8" LONG PER CDOT S-627-1.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

*See new sheet 2*

*Provide typical roadway cross sections*

*Add sheet index.*

SF189

PCD PROJECT NO. SF-18-005

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION OF COLORADO IT'S THE LAW	NO. REVISION	DATE	REVIEW:		PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS TITLE SHEET
	PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC				
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	MARC A. WHORTON, COLORADO P.E. # 37155 DATE _____		619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0789(Fax)		

N:\2015\05\UP\BANKS\CONSTRUCTION\Paint Brush Hills Filing 13E\Construction Plans\000117\_SUBMIT FIA\_7\_20\_18\2053.50\_SHEET 1 of 15.dwg, 7/20/2018 5:26:26 PM, 1:1

Provide a key map.

See sheet 2 new

CURB RETURN CURVE TABLE	CENTERLINE CURVE TABLE	CENTERLINE TABLE																																																																						
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Tangent length does not meet the min. 200' per ECM 2.3.3.F.3. Revise or submit a deviation for the county engineers' consideration.

Original plat approved by BOCC

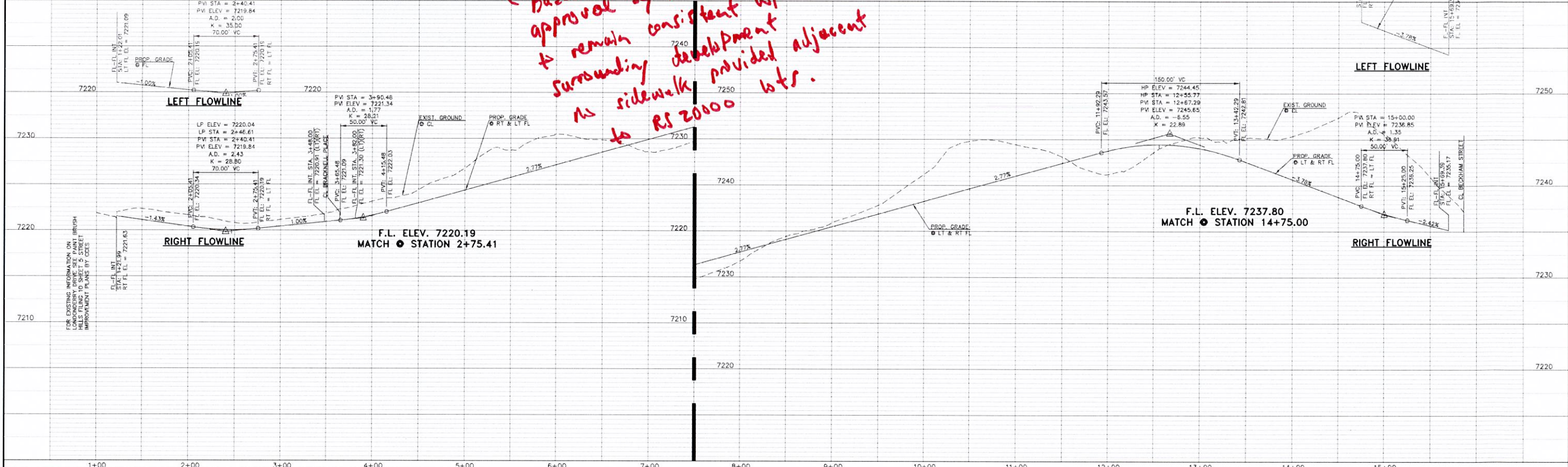
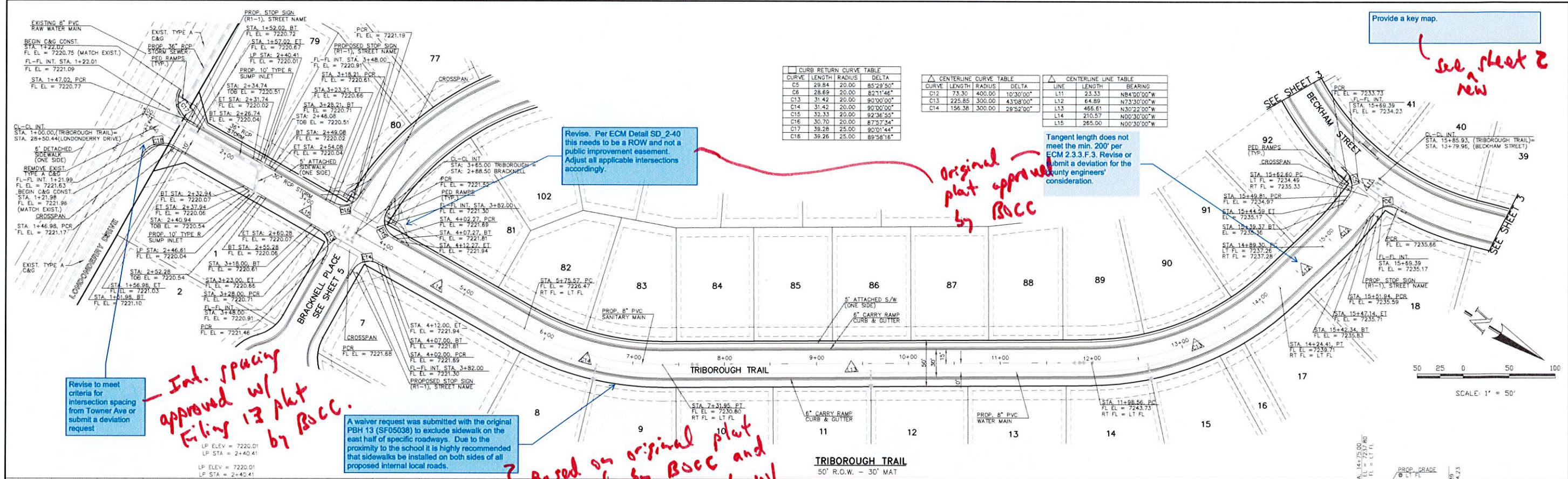
Revise. Per ECM Detail SD 2-40 this needs to be a ROW and not a public improvement easement. Adjust all applicable intersections accordingly.

Revise to meet criteria for intersection spacing from Tower Ave or submit a deviation request

Int. spacing approved w/ Filing 13 Plat by BOCC.

A waiver request was submitted with the original PBH 13 (SF05038) to exclude sidewalk on the east half of specific roadways. Due to the proximity to the school it is highly recommended that sidewalks be installed on both sides of all proposed internal local roads.

Based on original plat approval by BOCC and to remain consistent w/ surrounding development as sidewalk provided adjacent to RS 20000 lots.



DESIGN DATA: TRIBOROUGH TRAIL

SIDEWALKS: WIDTH: 5'

LOCATION:  Attached  Detached

CURB TYPE:  1  5  3  A  C

R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: URBAN LOCAL HVEEM

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

**811**

UTILITY NOTIFICATION OF COLORADO IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES

NO.	REVISION	DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

**CLASSIC**  
CONSULTING ENGINEERS & SURVEYORS

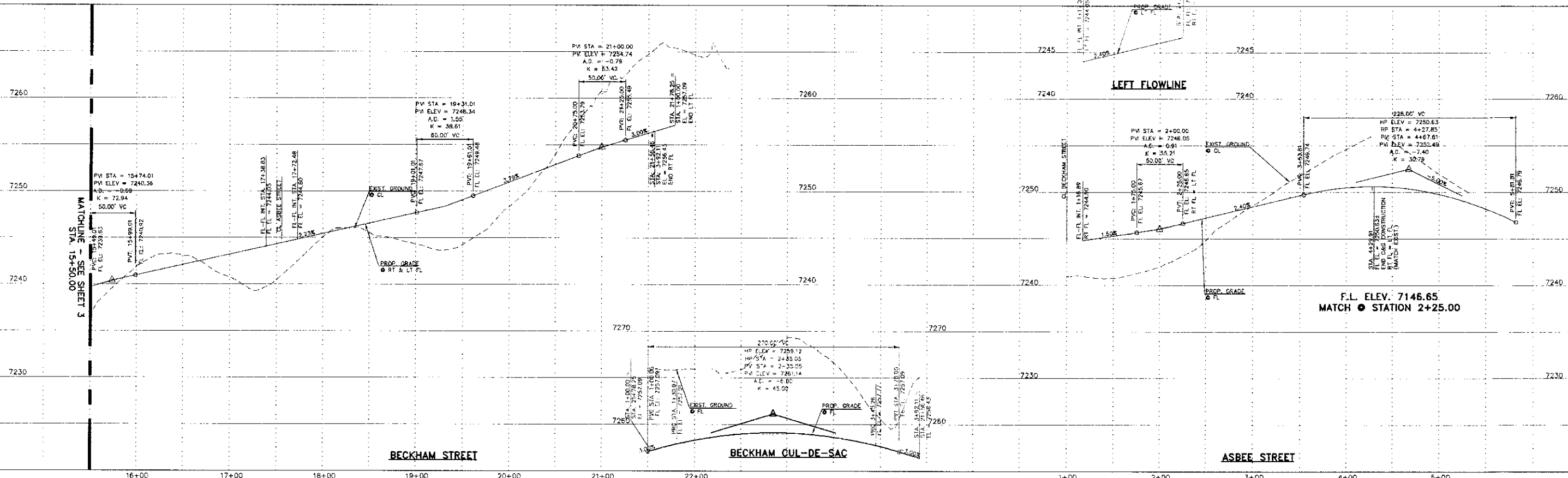
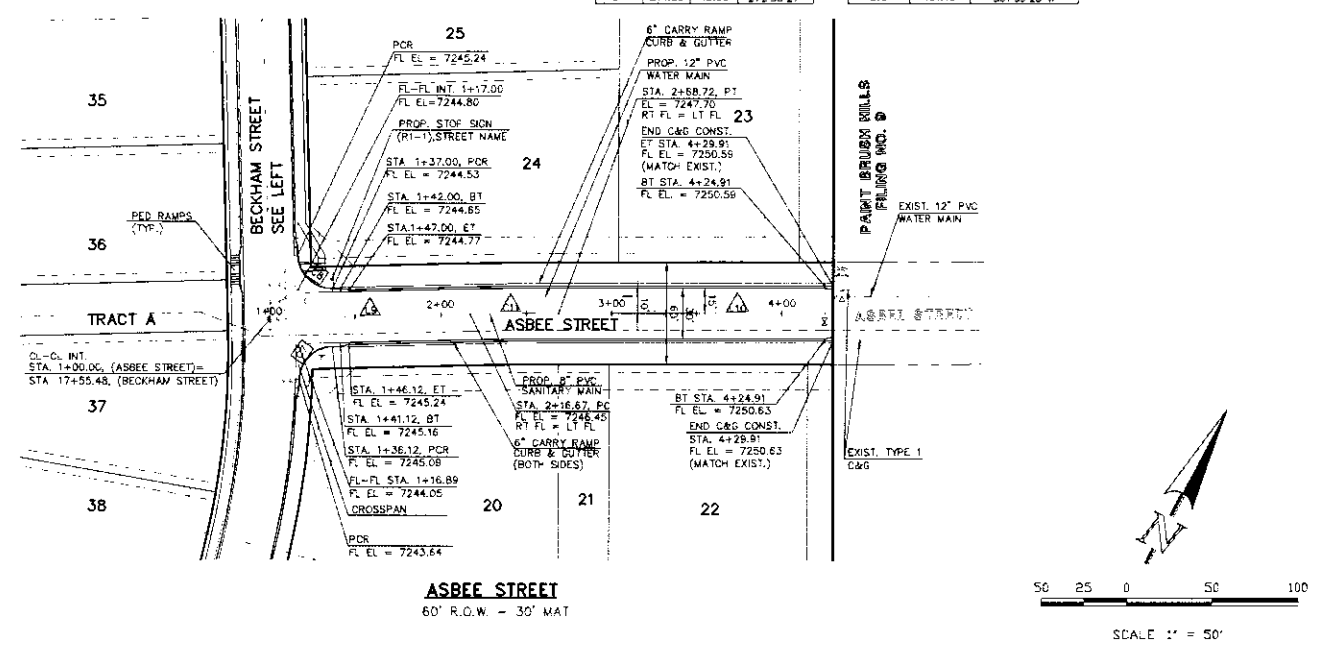
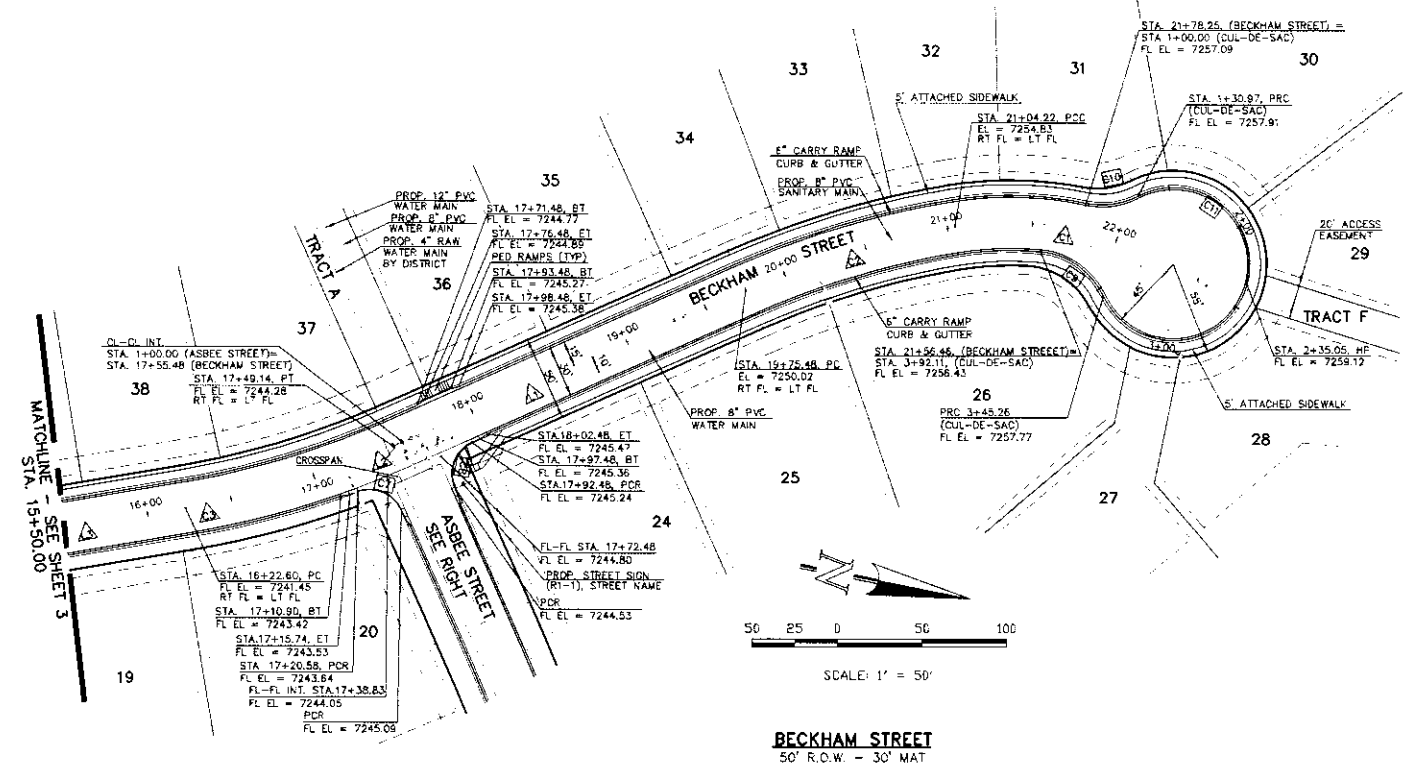
618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING 13E  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
TRIBOROUGH TRAIL

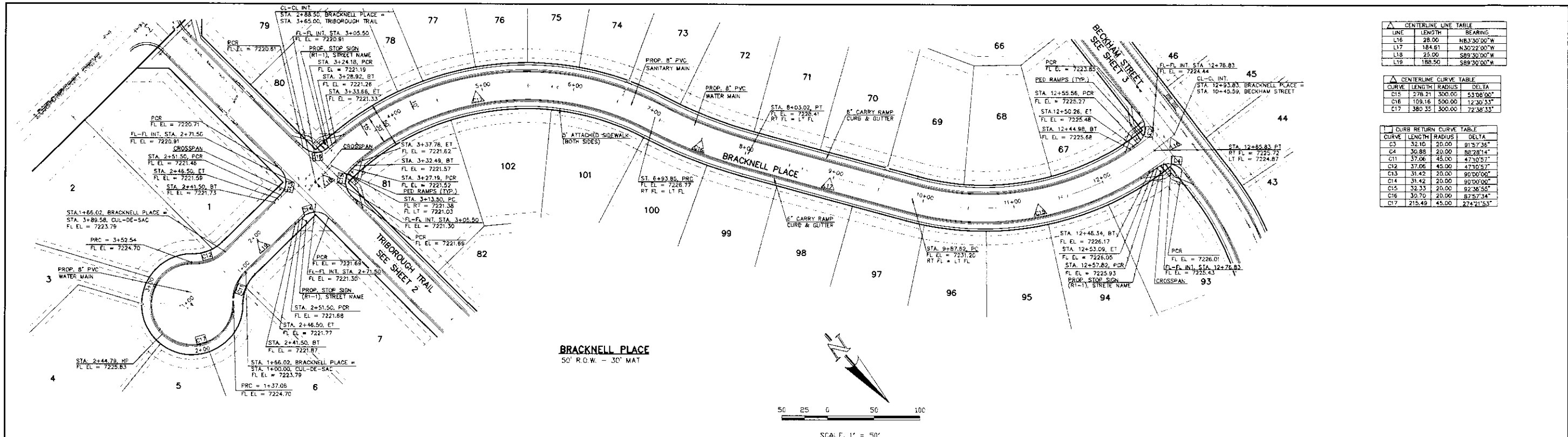
DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 50'	7-20-18
CHECKED BY	(V) 1" = 5'	SHEET 2 OF 15	JOB NO. 2053.50



CURB RETURN CURVE TABLE				CENTERLINE LINE TABLE			CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA	LINE	LENGTH	BEARING	CURVE	LENGTH	RADIUS	DELTA
C7	30.27	20.00	86°43'38"	L1	220.50	S28°30'00"E	C1	132.00	200.00	37°48'55"
C8	31.43	20.00	90°00'00"	L2	6.34	S29°30'00"E	C2	128.74	500.00	14°43'08"
C9	46.85	45.00	59°39'04"	L3	132.69	S15°00'00"E	C3	126.54	500.00	14°30'00"
C10	30.97	45.00	38°25'57"	L9	116.87	S60°30'00"W	C11	52.05	2000.00	1°29'28"
C11	214.29	45.00	272°50'27"	L10	181.19	S61°59'28"W				



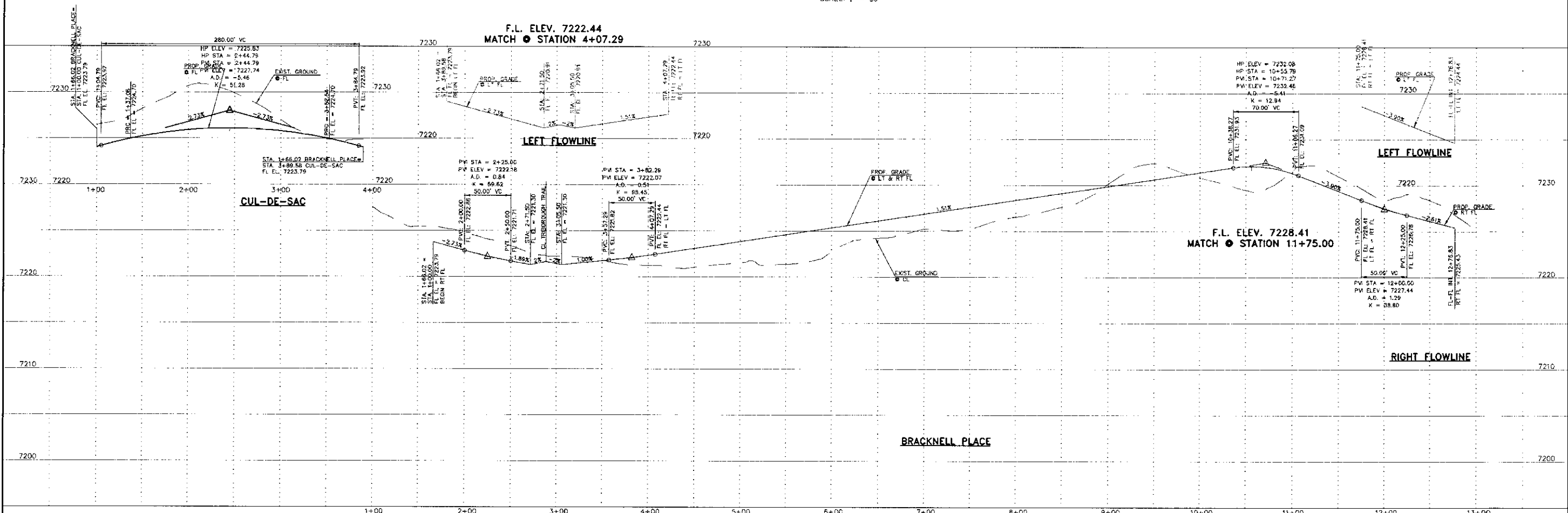
DESIGN DATA: BECKHAM ROAD/ASBEE STREET SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 R/W WIDTH: 50' / 60' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL - RESV	PAYMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: COMPOSITE SECTION: BASE: SUBGRADE STABILIZATION: CHEMICAL: <input type="checkbox"/> MEDIC: <input type="checkbox"/> TYPE: THICKNESS:	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION OF COLORADO IS THE LAW. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION: _____ DATE: _____ REVIEW: _____ PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC WARC A. WHORTON, COLORADO PE #27755 DATE: _____		PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS BECKHAM STREET/ASBEE STREET DESIGNED BY: MAW SCALE: DATE: 7-20-18 DRAWN BY: MAK (H) 1" = 50' SHEET 4 OF 15 CHECKED BY: (V) 1" = 5' JOB NO.: 2053.50



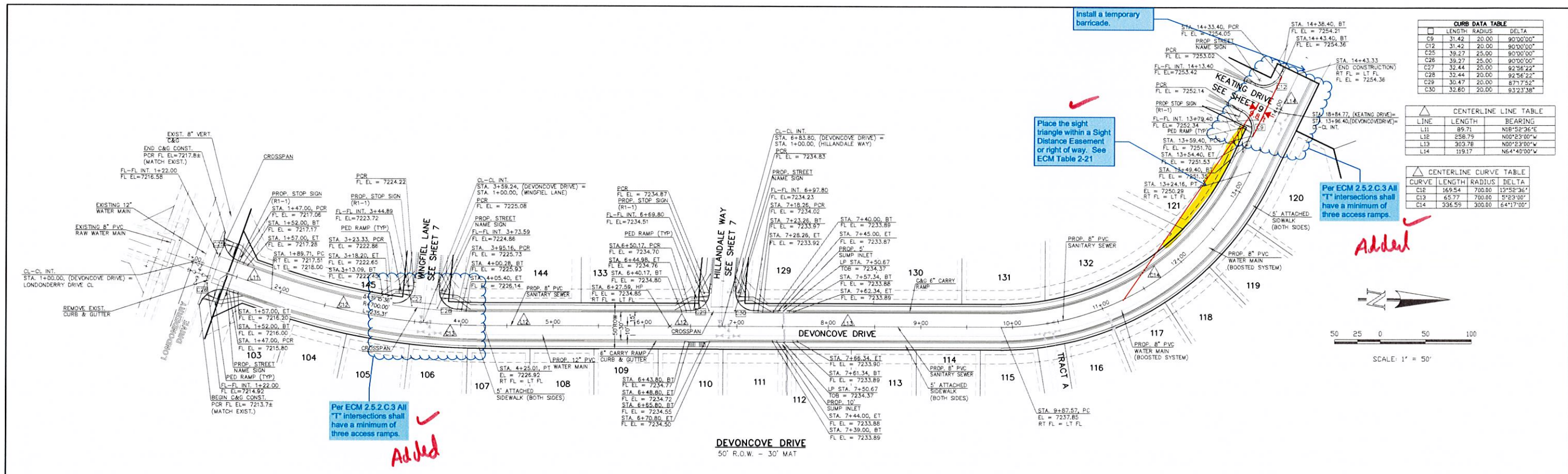
LINE	LENGTH	BEARING
L16	28.00	N83°30'00"W
L17	184.61	N30°22'00"W
L18	25.00	S89°30'00"W
L19	188.50	S89°30'00"W

CURVE	LENGTH	RADIUS	DELTA
C15	278.21	300.00	53°08'00"
C16	109.16	500.00	12°30'53"
C17	385.35	300.00	72°38'33"

CURB RETURN	CURVE	LENGTH	RADIUS	DELTA
C11	37.06	45.00	47°10'57"	
C12	37.06	45.00	47°10'57"	
C13	31.42	20.00	90°00'00"	
C14	31.42	20.00	90°00'00"	
C15	32.33	20.00	92°38'54"	
C16	30.70	20.00	82°57'34"	
C17	215.49	45.00	274°21'53"	



DESIGN DATA: BRACKNELL PLACE SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> C S/A WIDTH: 30' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL - FLEEV	PAYMENT: TYPE: HMA <input type="checkbox"/> PUC <input type="checkbox"/> THICKNESS: COMPOSITE SECTION: HMA <input type="checkbox"/> BASE <input type="checkbox"/> SUBGRADE STABILIZATION: <input type="checkbox"/> CHEMICAL: <input type="checkbox"/> MED: <input type="checkbox"/> TYPE: TACKERS:	<b>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811</b> UTILITY NOTIFICATION OF COLORADO ITS THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION: _____ DATE: _____ REVIEW: _____ PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC WARC & WHORTON, COLORADO P.E. #3755 ST#	<b>CLASSIC</b> CONSULTING ENGINEERS & SURVEYORS 818 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0750 (719) 785-0793 (fax)	<b>PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS BRACKNELL PLACE</b> DESIGNED BY: MAW SCALE: DATE: 7-26-18 DRAWN BY: MAW (+) 1" = 50' SHEET: 5 OF 15 CHECKED BY: (V) 1" = 5' JOB NO.: 2053.56
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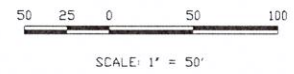


CURB DATA TABLE		
LINE	LENGTH	BEARING
C9	31.42	20.00 90°00'00"
C12	31.42	20.00 90°00'00"
C25	39.27	25.00 90°00'00"
C26	39.27	25.00 90°00'00"
C27	32.44	20.00 92°56'22"
C28	32.44	20.00 92°56'22"
C29	30.47	20.00 87°17'52"
C30	32.60	20.00 93°23'38"

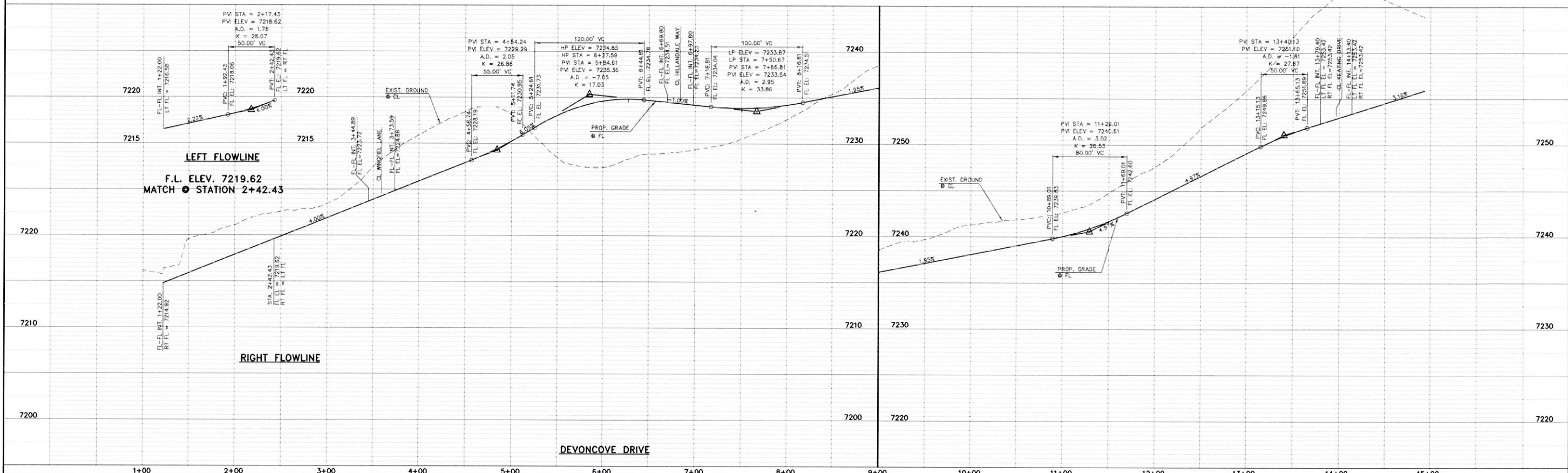
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L11	89.71	N16°58'26"E
L12	258.75	N00°23'00"W
L13	303.78	N00°23'00"W
L14	119.17	N64°40'00"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C12	169.54	700.00	13°52'36"
C13	65.77	700.00	5°23'00"
C14	336.59	300.00	64°17'00"

Per ECM 2.5.2.C.3 All "T" intersections shall have a minimum of three access ramps.



Per ECM 2.5.2.C.3 All "T" intersections shall have a minimum of three access ramps. **Added**



LEFT FLOWLINE  
F.L. ELEV. 7219.62  
MATCH @ STATION 2+42.43

RIGHT FLOWLINE

DEVONCOVE DRIVE

DESIGN DATA: DEVONCOVE DRIVE

SIDEWALKS: WIDTH: 5' LOCATION:  Attached  Detached

CURB TYPE:  1  5  3  A  C

R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: URBAN LOCAL HUEVM THICKNESS: \_\_\_\_\_

PAVEMENT: TYPE: HMA  PCC  THICKNESS: \_\_\_\_\_

COMPOSITE SECTION: HMA BASE SUBGRADE STABILIZATION: CHEMICAL:  MECH.:  TYPE: \_\_\_\_\_ THICKNESS: \_\_\_\_\_

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE: \_\_\_\_\_

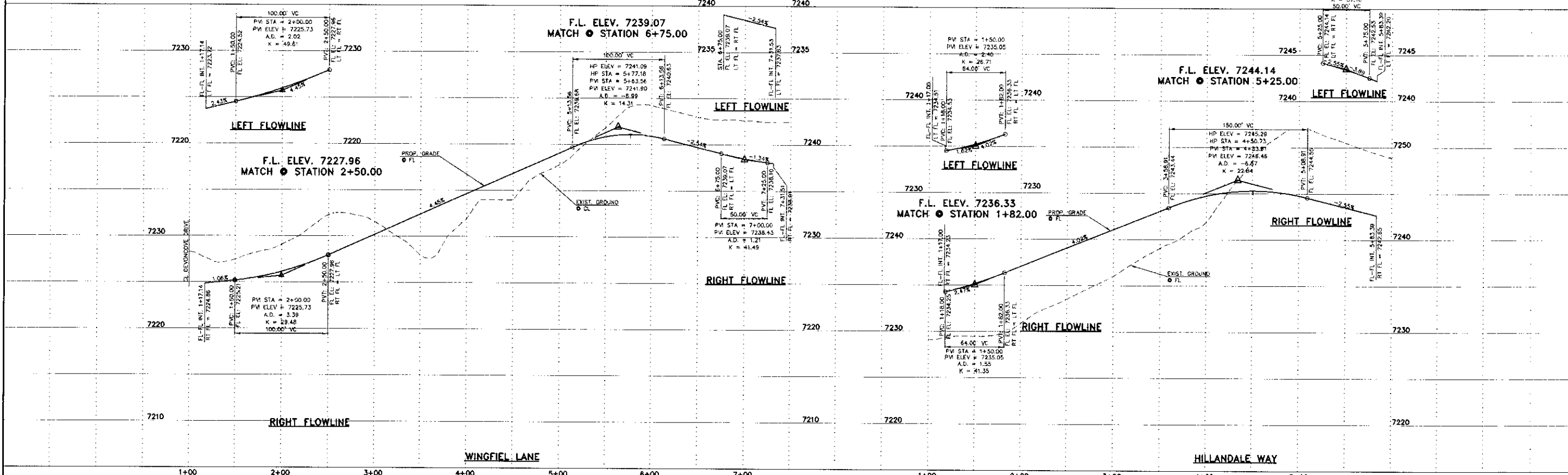
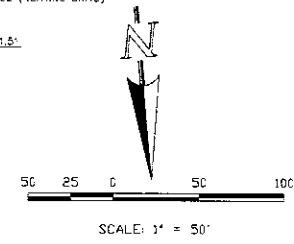
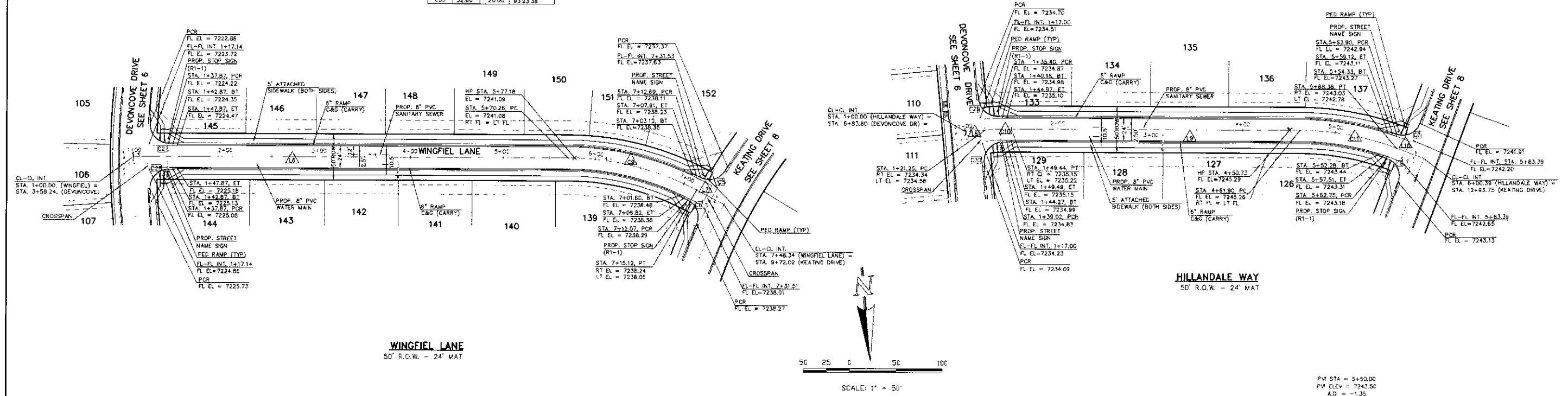
PAINT BRUSH HILLS FILING 13E  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
DEVONCOVE DRIVE

DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 50'	7-20-16
CHECKED BY	(V) 1" = 5'	SHEET 6 OF 15	JOB NO. 2053.50

LENGTH	RADIUS	DELTA
C5	29.89	20.00 85°54'26"
C6	30.35	20.00 86°57'02"
C7	31.12	20.00 89°08'48"
C8	31.79	20.00 91°04'17"
C9	32.44	20.00 92°56'22"
C10	33.44	20.00 95°36'27"
C11	30.47	20.00 87°17'52"
C12	32.60	20.00 93°23'38"

LINE	LENGTH	BEARING
L6	470.26	S85°00'00"E
L7	33.28	N57°20'00"W
L8	21.25	N89°37'00"E
L9	318.46	S85°00'00"E
L10	32.03	N64°40'00"W

CURVE	LENGTH	RADIUS	DELTA
C9	144.86	300.00 87°40'00"	
C10	28.19	300.00 1°20'00"	
C11	106.47	300.00 20°20'00"	



DESIGN DATA: WINGFIELD LANE/HILLDALE WAY SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 R/W WIDTH: 50' MAT WIDTH: 24' STREET TYPE: URBAN LOCAL LV = REV	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: COMPOSITE SECTION: HMA BASE: SUBGRADE STABILIZATION: CHEMICAL: <input type="checkbox"/> MED: <input type="checkbox"/> TYPE: THICKNESS:	NO. REVISION: _____ DATE: _____ REVIEW: _____ PREPARED UNDER THE DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WIGGORTON, COLORADO P.E. #37-55 DATE: _____	<table border="1"> <tr> <td colspan="2"> <b>CLASSIC</b>            CONSULTING ENGINEERS &amp; SURVEYORS         </td> </tr> <tr> <td>           PAINT BRUSH HILLS FILING 13E            CONSTRUCTION PLANS            STREET IMPROVEMENT PLANS            WINGFIELD LANE / HILLDALE WAY         </td> <td>           DESIGNED BY: MAW SCALE: DATE: 7-20-18            DRAWN BY: MAW SHEET: 7 OF 15            CHECKED BY: (CV) 1" = 5' JOB NO.: 2053.50         </td> </tr> </table>	<b>CLASSIC</b> CONSULTING ENGINEERS & SURVEYORS		PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS WINGFIELD LANE / HILLDALE WAY	DESIGNED BY: MAW SCALE: DATE: 7-20-18 DRAWN BY: MAW SHEET: 7 OF 15 CHECKED BY: (CV) 1" = 5' JOB NO.: 2053.50
<b>CLASSIC</b> CONSULTING ENGINEERS & SURVEYORS							
PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS WINGFIELD LANE / HILLDALE WAY	DESIGNED BY: MAW SCALE: DATE: 7-20-18 DRAWN BY: MAW SHEET: 7 OF 15 CHECKED BY: (CV) 1" = 5' JOB NO.: 2053.50						

Approved on original plot by BOCC

Tangent length does not meet the min. 200' per ECM 2.3.3.F.3. Revise or submit a deviation for the county engineers' consideration.

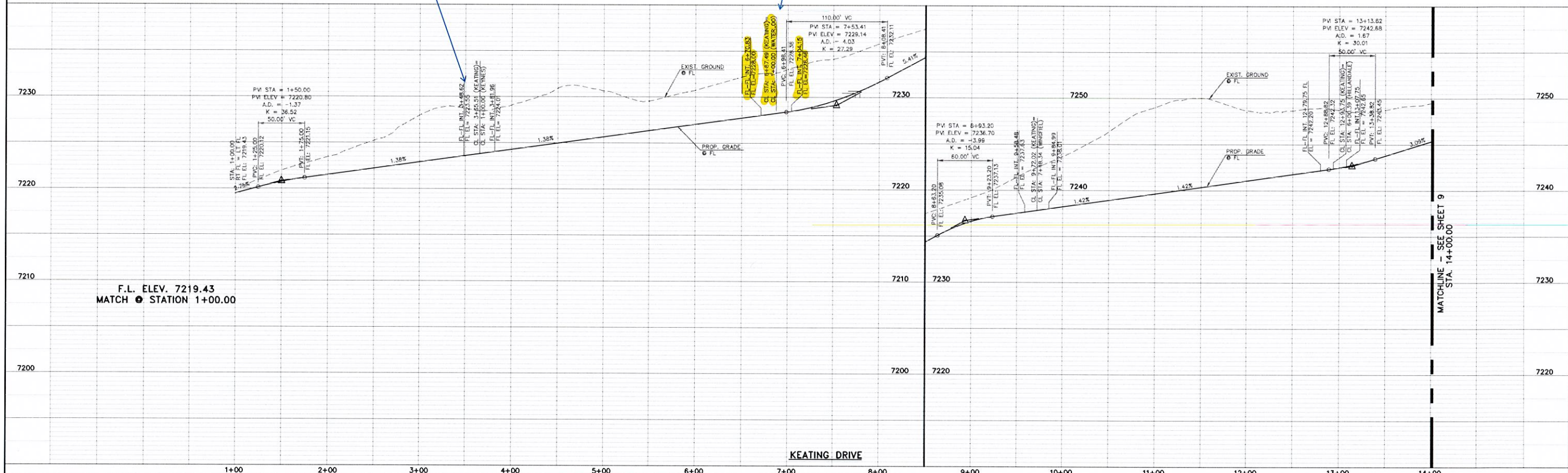
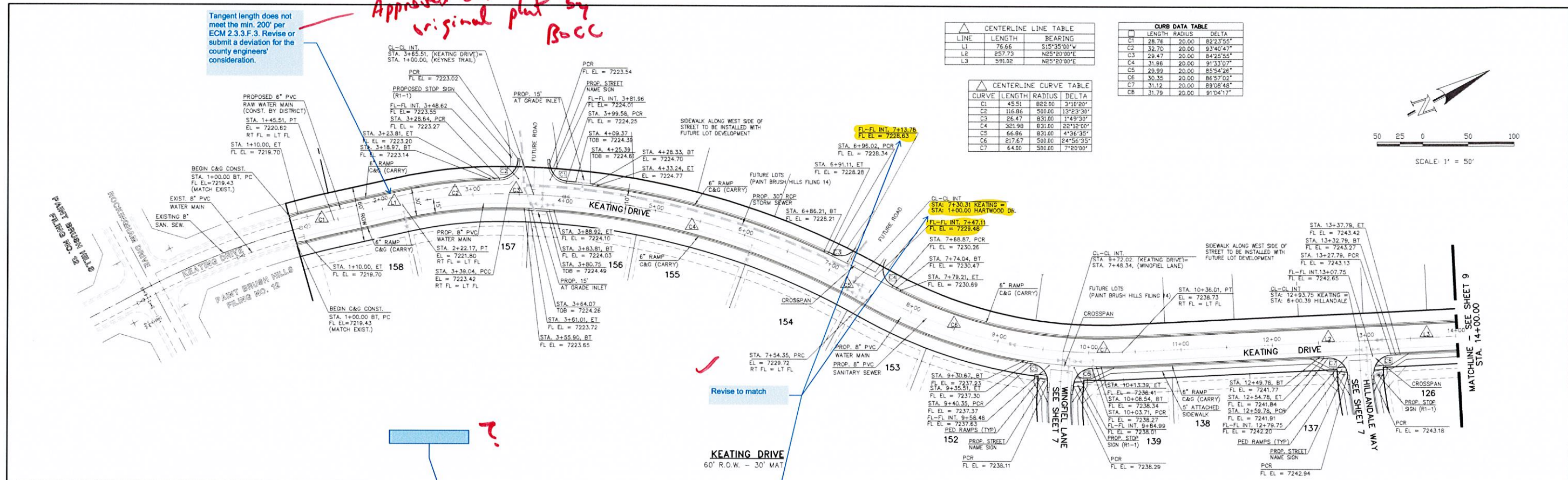
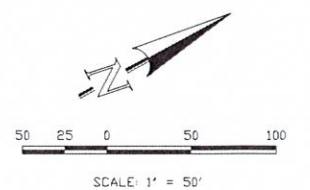
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L1	76.66	S15°35'00"W
L2	257.73	N25°20'00"E
L3	591.02	N25°20'00"E

CURB DATA TABLE			
CURB	LENGTH	RADIUS	DELTA
C1	28.76	20.00	82°23'55"
C2	32.70	20.00	93°40'47"
C3	29.47	20.00	84°25'55"
C4	31.86	20.00	91°33'07"
C5	28.99	20.00	85°54'26"
C6	30.35	20.00	86°57'02"
C7	31.12	20.00	89°08'48"
C8	31.79	20.00	91°04'17"

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	45.51	822.00	3°10'20"
C2	116.86	500.00	13°23'30"
C3	26.47	831.00	1°49'30"
C4	321.98	831.00	22°12'00"
C5	66.86	831.00	4°36'35"
C6	217.67	500.00	24°56'35"
C7	64.00	300.00	7°20'00"



F.L. ELEV. 7219.43  
MATCH @ STATION 1+00.00

MATCHLINE - SEE SHEET 9  
STA. 14+00.00

DESIGN DATA: KEATING DRIVE

PAVEMENT: TYPE: HMA  PCC

THICKNESS: \_\_\_\_\_

COMPOSITE SECTION: HMA

BASE: \_\_\_\_\_

SUBGRADE STABILIZATION: CHEMICAL:  MECH:

TYPE: \_\_\_\_\_

THICKNESS: \_\_\_\_\_

SIDEWALKS: WIDTH: 5'

LOCATION:  Attached  Detached

CURB TYPE:  1  5  3  A  C

R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: URBAN LOCAL HVEEM: \_\_\_\_\_

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW: \_\_\_\_\_

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

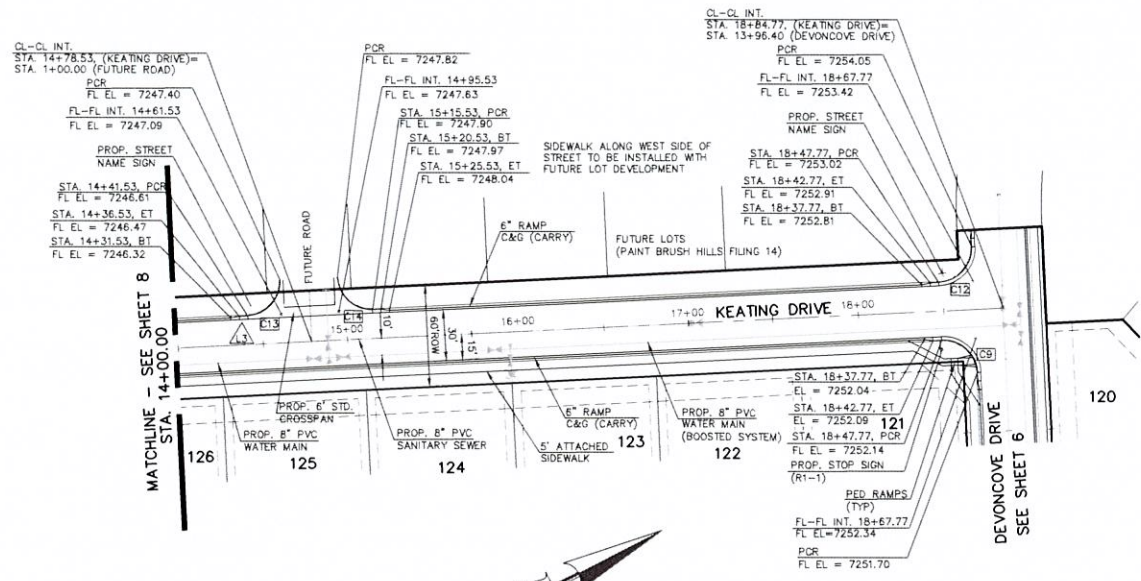
MARC A. WHORTON, COLORADO P.E. #37155 DATE: \_\_\_\_\_



PAINT BRUSH HILLS FILING 13E  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
KEATING DRIVE

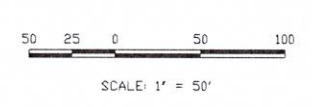
DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 50'	7-20-18
CHECKED BY	(V) 1" = 5'	SHEET B OF 15	JOB NO. 2053.50



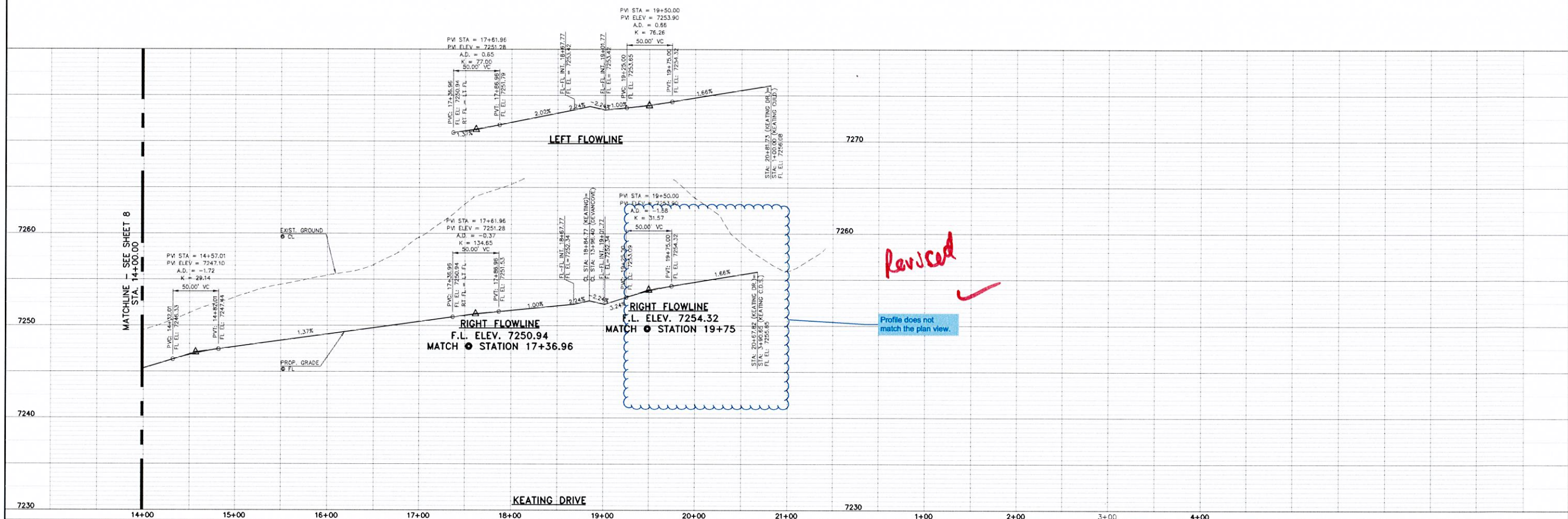


CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L3	591.02	N25°20'00"E

CURB DATA TABLE			
LINE	LENGTH	RADIUS	DELTA
C9	31.42	20.00	90°00'00"
C12	31.42	20.00	90°00'00"
C13	31.42	20.00	90°00'00"
C14	31.42	20.00	90°00'00"



**KEATING DRIVE**  
60' R.O.W. - 30' MAT



MATCHLINE - SEE SHEET 8  
STA. 14+00.00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

7230

14+00

15+00

16+00

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R:\205\500\DRAWING\CONSTRUCTION\TOPIC\Construction Plans\COURTY SURF.DWG 7/22/2018 10:46:58 AM 1 1

DESIGN DATA: KEATING DRIVE

PAVEMENT: TYPE: HMA  PCC

THICKNESS: \_\_\_\_\_

COMPOSITE SECTION: HVA \_\_\_\_\_

BASE: \_\_\_\_\_

SUBGRADE STABILIZATION: CHEMICAL:  MECH:

TYPE: \_\_\_\_\_

THICKNESS: \_\_\_\_\_

SIDEWALKS: WIDTH: 5'

LOCATION:  Attached  Detached

CURB TYPE:  1  5  3  A  C

R/W WIDTH: 50' & 60' MAT WIDTH: 30'

STREET TYPE: URBAN LOCAL HVEEM \_\_\_\_\_

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NO.	REVISION	DATE

REVIEW: \_\_\_\_\_

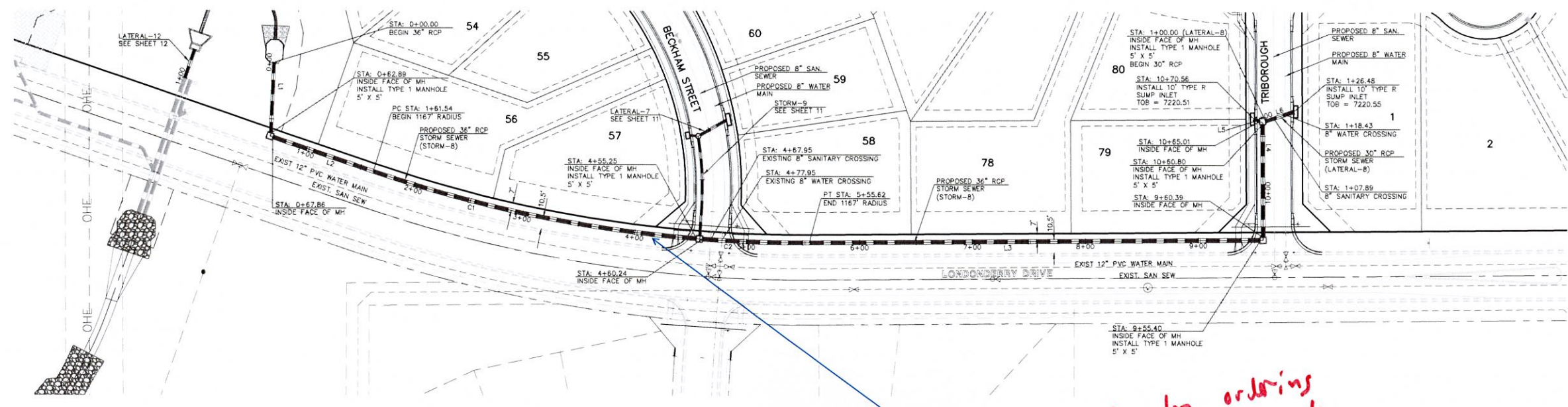
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE \_\_\_\_\_

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING 13E			
CONSTRUCTION PLANS			
STREET IMPROVEMENT PLANS			
KEATING DRIVE			
DESIGNED BY	MAW	SCALE	DATE
			7-20-18
DRAWN BY	MAW	(H) 1" = 50'	SHEET 9 OF 15
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

CLASSIC CONSULTING ENGINEERS & SURVEYORS

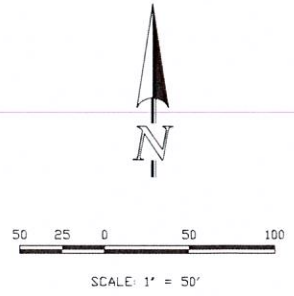


STORM LINE TABLE		
LINE	LENGTH	BEARING
L1	62.89'	S22°22'44"W
L2	93.69'	N71°07'24"W
L3	399.78'	S82°31'44"W
L4	100.41'	N0°30'00"W
L5	5.55'	N68°22'41"W
L6	26.48'	S71°27'12"W

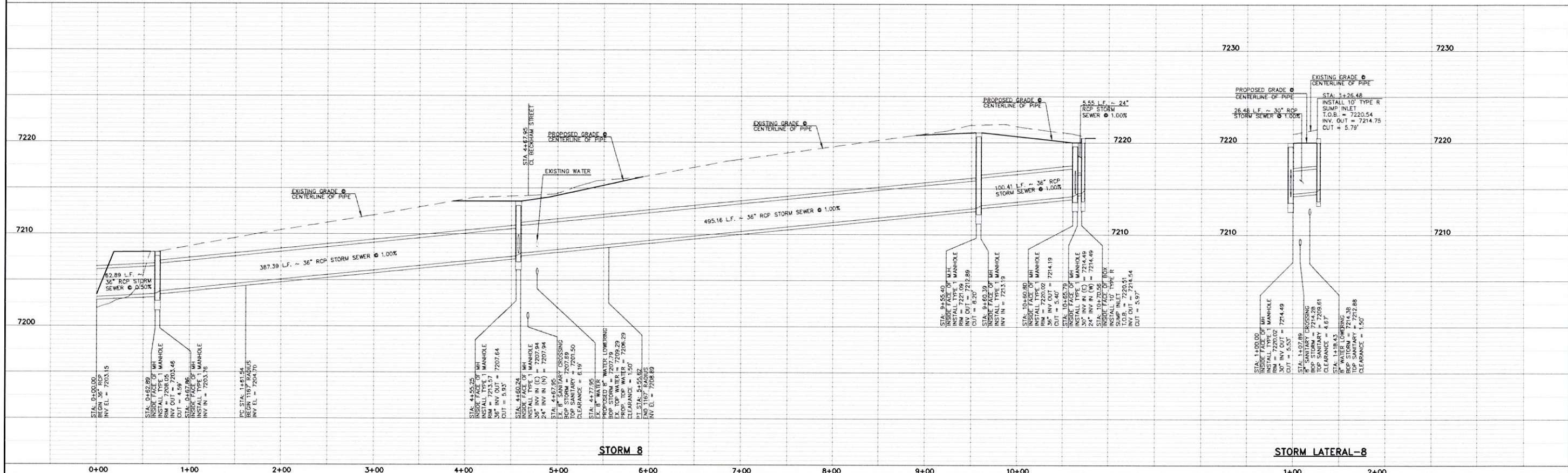
STORM CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	293.70'	1167.00'	142°51'12"
C2	95.38'	1167.00'	4°40'59"

Per detail SD-4-2, storm line must be located within the road. This area is typically reserved for Tel, CATV, underground power, and gas.

*Contractor ordering utility locator to confirm storm alignment.*



**STORM-8 & LATERAL-8**



**STORM 8**

**STORM LATERAL-8**

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

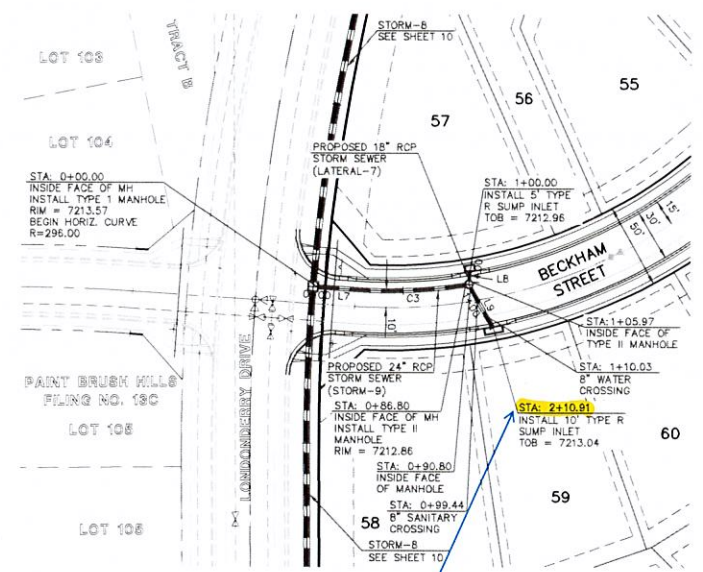
NO.	REVISION	DATE

REVIEW:  
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
 MARC A. WHORTON, COLORADO P.E. #37155 DATE

6385 Corporate Drive, Suite 304  
 Colorado Springs, Colorado 80919  
 (719) 785-0790  
 (719) 785-0799 (Fax)

PAINT BRUSH HILLS FILING NO. 13E CONSTRUCTION PLANS STORM SEWER PLAN			
DESIGNED BY	ESO	SCALE	DATE
DRAWN BY	ESO	(H) 1" = 50'	7-20-16
CHECKED BY	(V) 1" = 5'	SHEET 10 OF 15	JOB NO. 2053.50

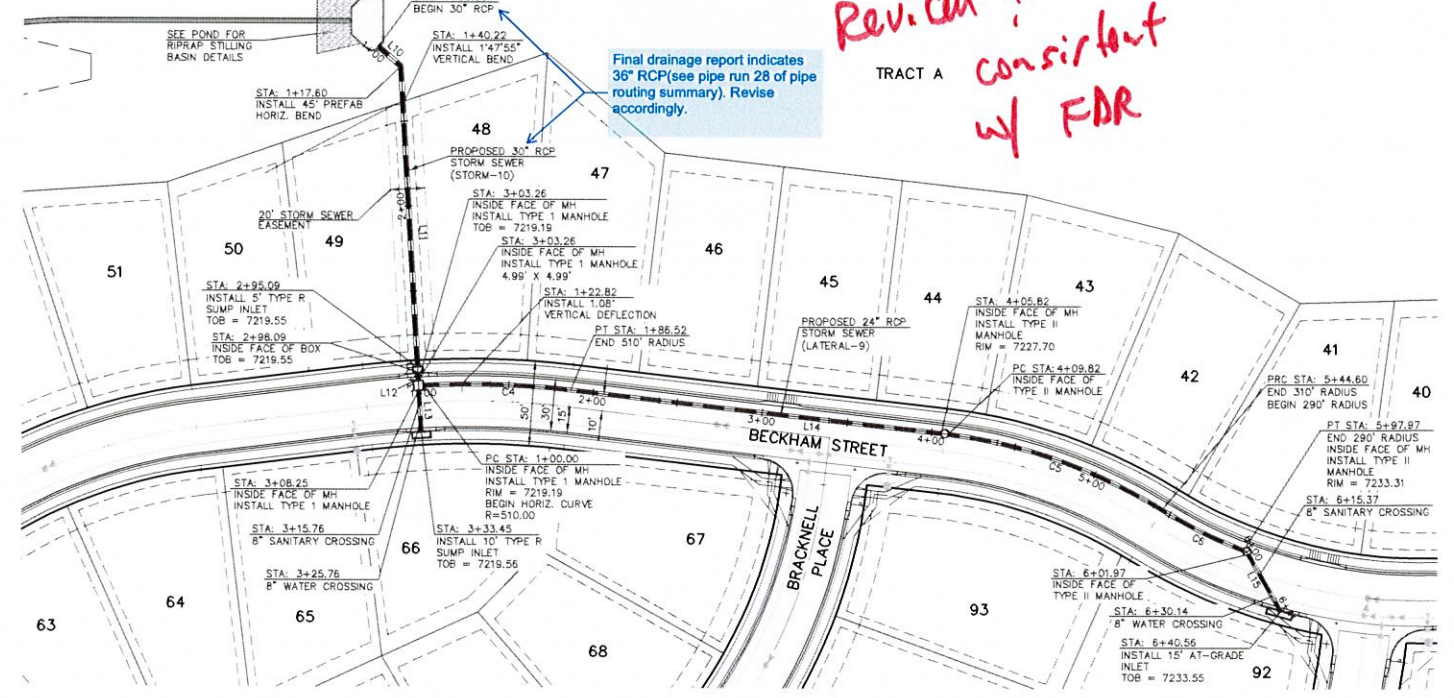
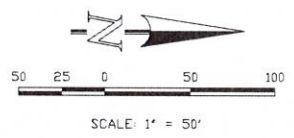
*Revised & consistent w/ FAR*



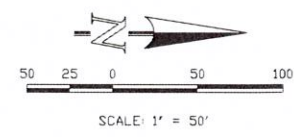
LINE	LENGTH	BEARING
L7	22.07'	N03°50'00"E
L8	5.97'	N84°05'36"W
L9	27.28'	N67°19'23"E
L10	17.60'	N41°30'00"E
L11	173.16'	N86°30'00"E
L12	5.17'	N86°30'00"E
L13	25.20'	N86°30'00"E
L14	219.30'	N06°30'00"E
L15	38.69'	N60°10'23"E

CURVE	LENGTH	RADIUS	DELTA
C3	64.73'	290.00'	12°47'18"
C4	86.55'	510.00'	09°43'11"
C5	134.79'	310.00'	24°57'42"
C6	53.36'	290.00'	10°32'37"

STORM-9 & STORM LATERAL-7



STORM-10 & STORM LATERAL-9

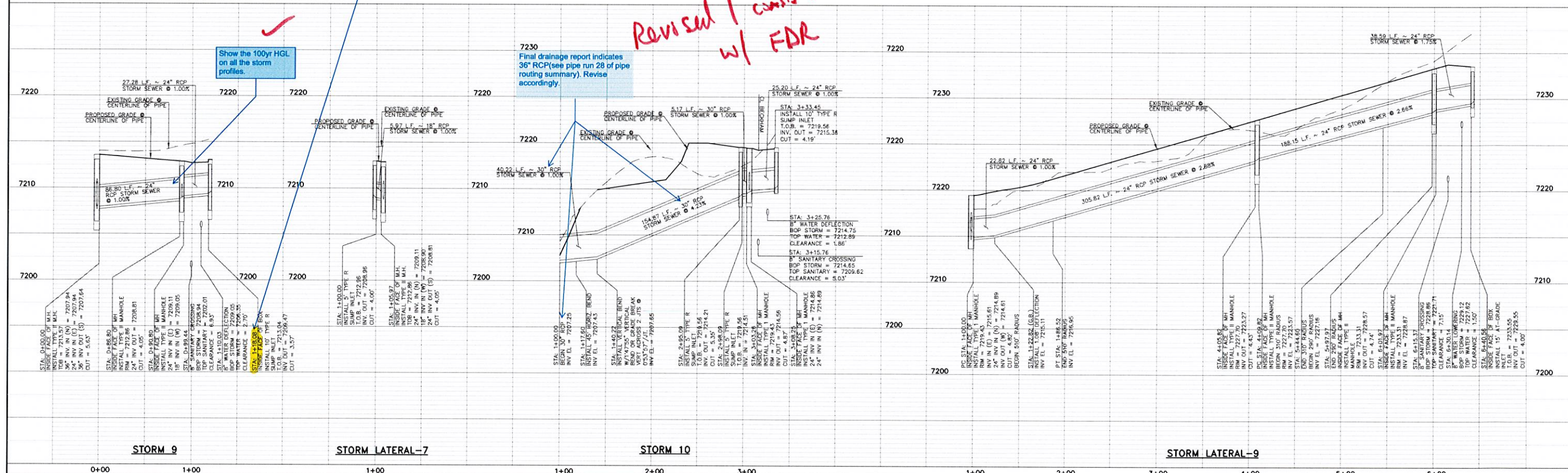


Revise to match ✓

*Revised / consistent w/ FAR*

Show the 100yr HGL on all the storm profiles.

Final drainage report indicates 36" RCP (see pipe run 28 of pipe routing summary). Revise accordingly.



STORM 9

STORM LATERAL-7

STORM 10

STORM LATERAL-9

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:  
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 MARC A. WHORTON, COLORADO P.E. #37155 DATE

PAINT BRUSH HILLS FILING NO. 13E CONSTRUCTION PLANS STORM SEWER PLAN			
DESIGNED BY	ESO	SCALE	DATE
DRAWN BY	ESO	(+) 1" = 50'	SHEET 11 OF 15
CHECKED BY	(V) 1" = N/A	DATE	JOB NO. 2053.50

Revise. Per the FDR (pg 9), interim condition has the pipe daylighting to a natural channel. Provide erosion protection at the outlet. Update the FAE accordingly.

Final Drainage Report indicates 36" RCP. Revise accordingly.

Revise. Per the FDR (pg 9) this is a future connection.

Label stormlines as public.

Revise. Per DCM 1 Section 6.3.4 manholes shall be located as required for changes in grade, and changes in alignment.

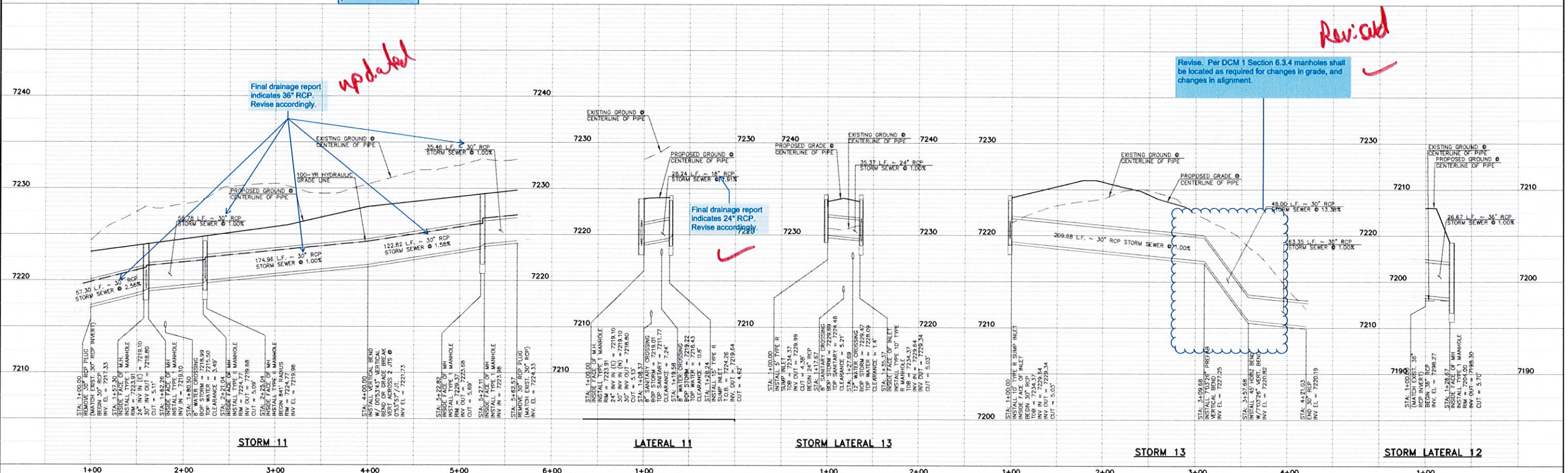
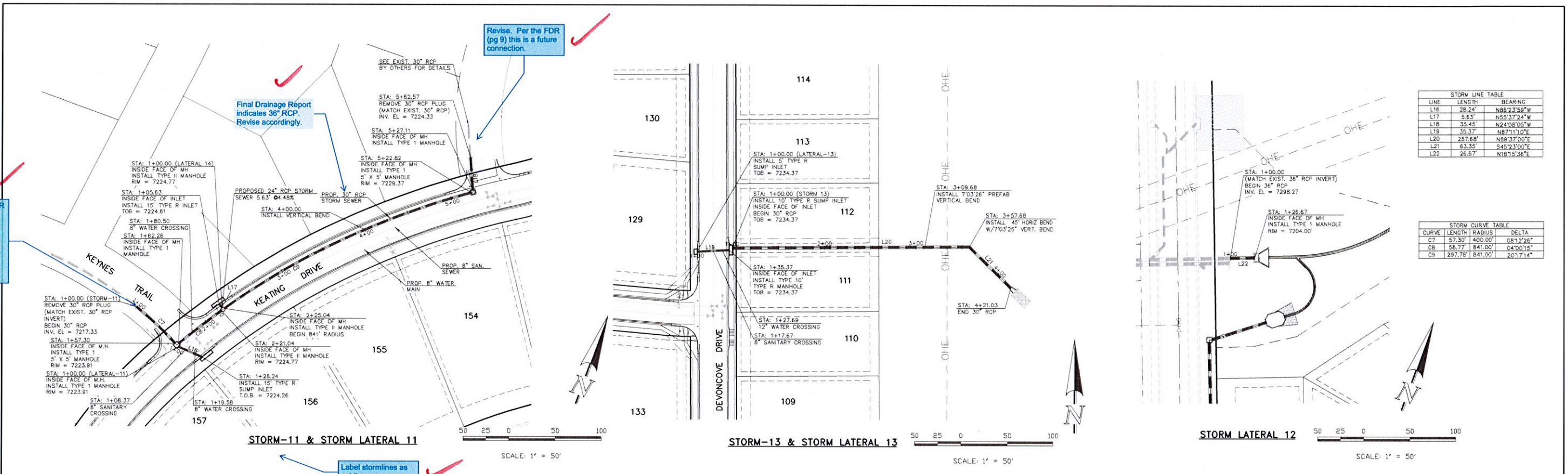
Final drainage report indicates 36" RCP. Revise accordingly.

Final drainage report indicates 24" RCP. Revise accordingly.

Revised

LINE	LENGTH	BEARING
L16	28.24'	N86°23'58"W
L17	5.63'	N55°37'24"W
L18	35.45'	N24°08'06"W
L19	35.37'	N87°11'01"E
L20	257.68'	N89°37'00"E
L21	63.35'	S45°23'00"E
L22	26.67'	N181°5'38"E

CURVE	LENGTH	RADIUS	DELTA
C7	57.30'	400.00'	08°12'28"
C8	58.77'	841.00'	04°00'15"
C9	287.76'	841.00'	20°17'14"

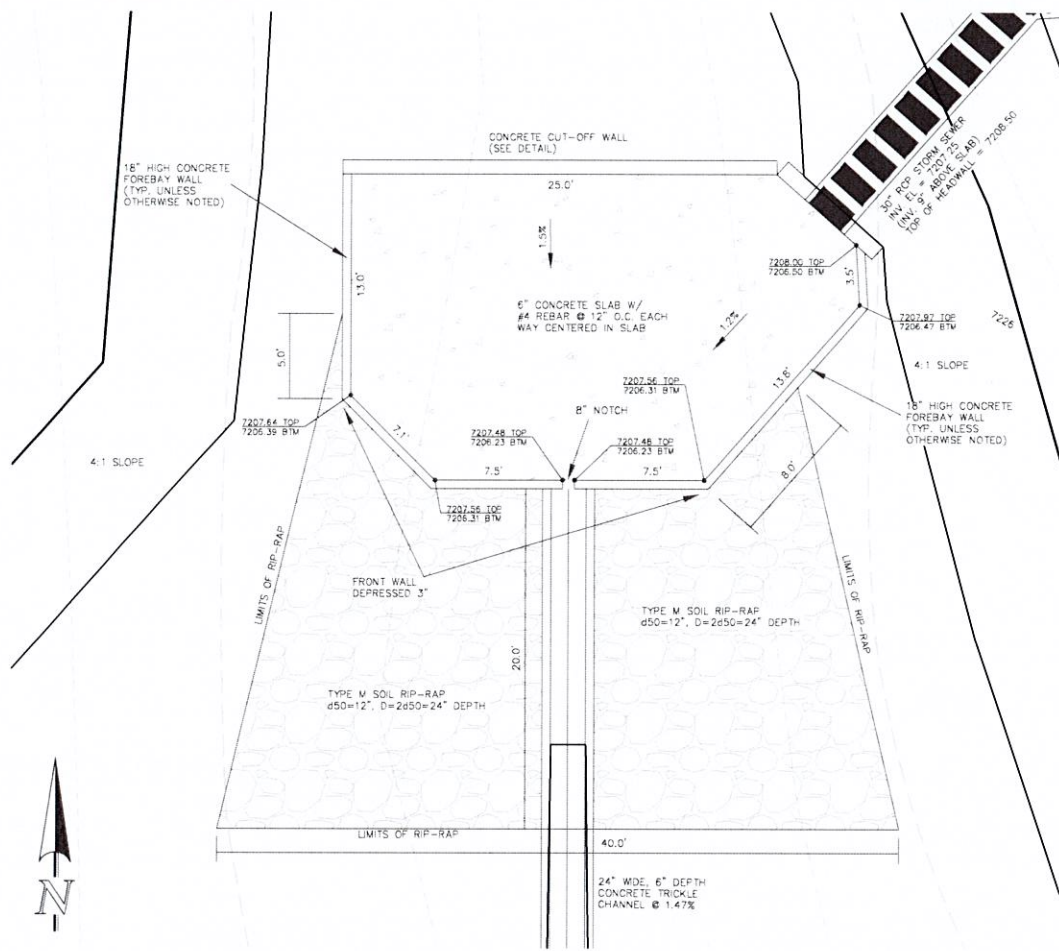


THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

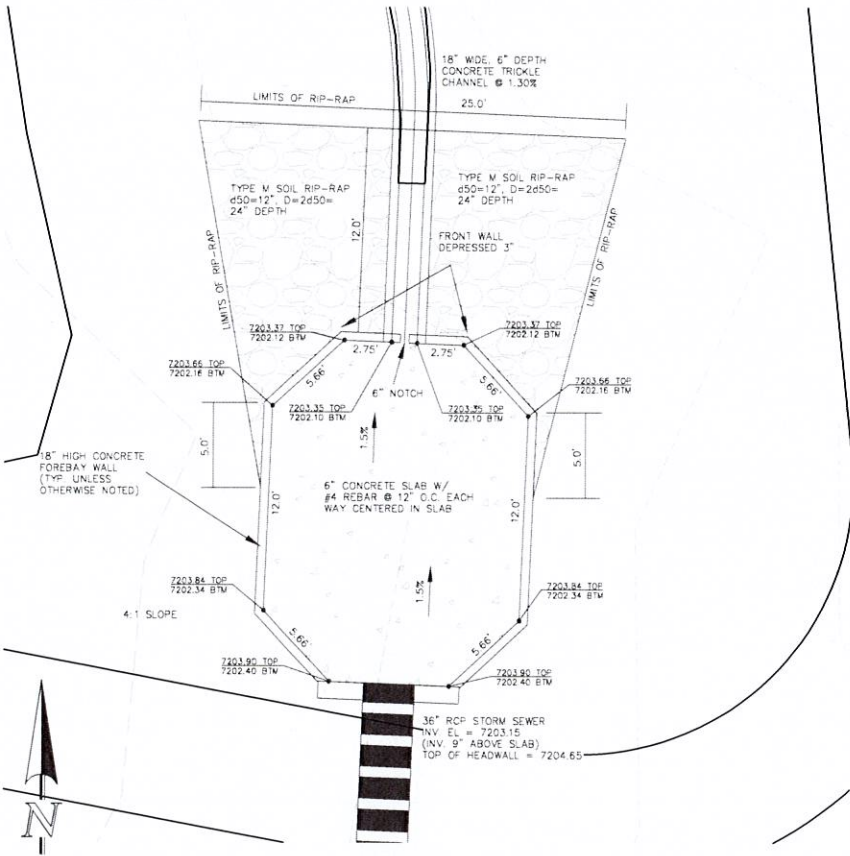
NO.	REVISION	DATE

REVIEW:  
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC.  
 MARC A. WHORTON, COLORADO P.E. #37155

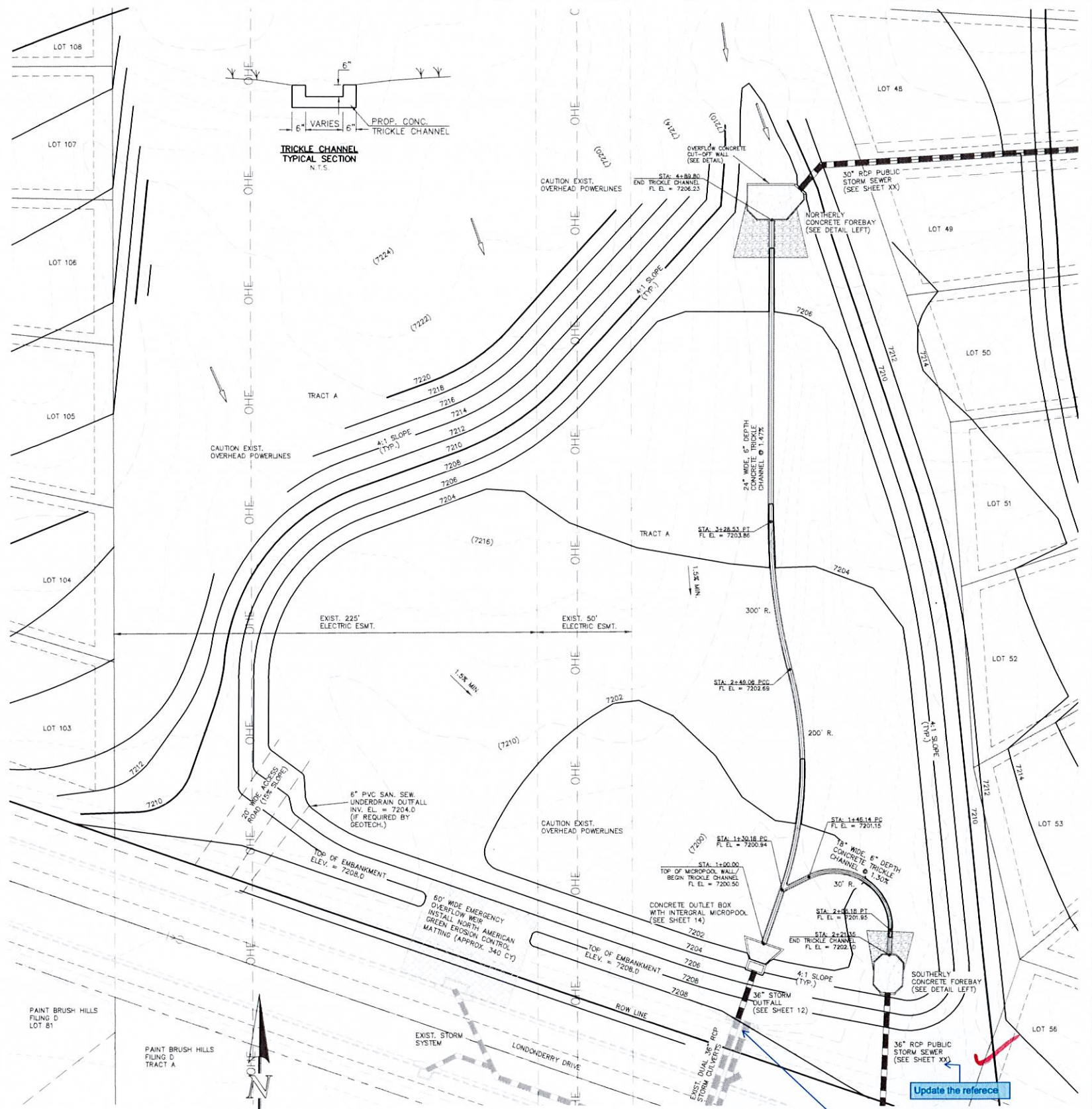
PAINT BRUSH HILLS FILING NO. 13E CONSTRUCTION PLANS STORM SEWER PLAN			
DESIGNED BY	ESO	SCALE	DATE
DRAWN BY	ESO	(+/-) 1" = 50'	8-10-12
CHECKED BY	(V) 1" = 5'	SHEET	12 OF 15
		JOB NO.	2053.50



**NORTHERLY CONCRETE FOREBAY**  
SCALE: 1" = 5'



**SOUTHERLY CONCRETE FOREBAY**  
SCALE: 1" = 5'



**DETENTION FACILITY D**

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION CENTER OF COLORADO  
IT'S THE LAW

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NO.	REVISION	DATE

REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155      DATE

**CLASSIC**  
CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

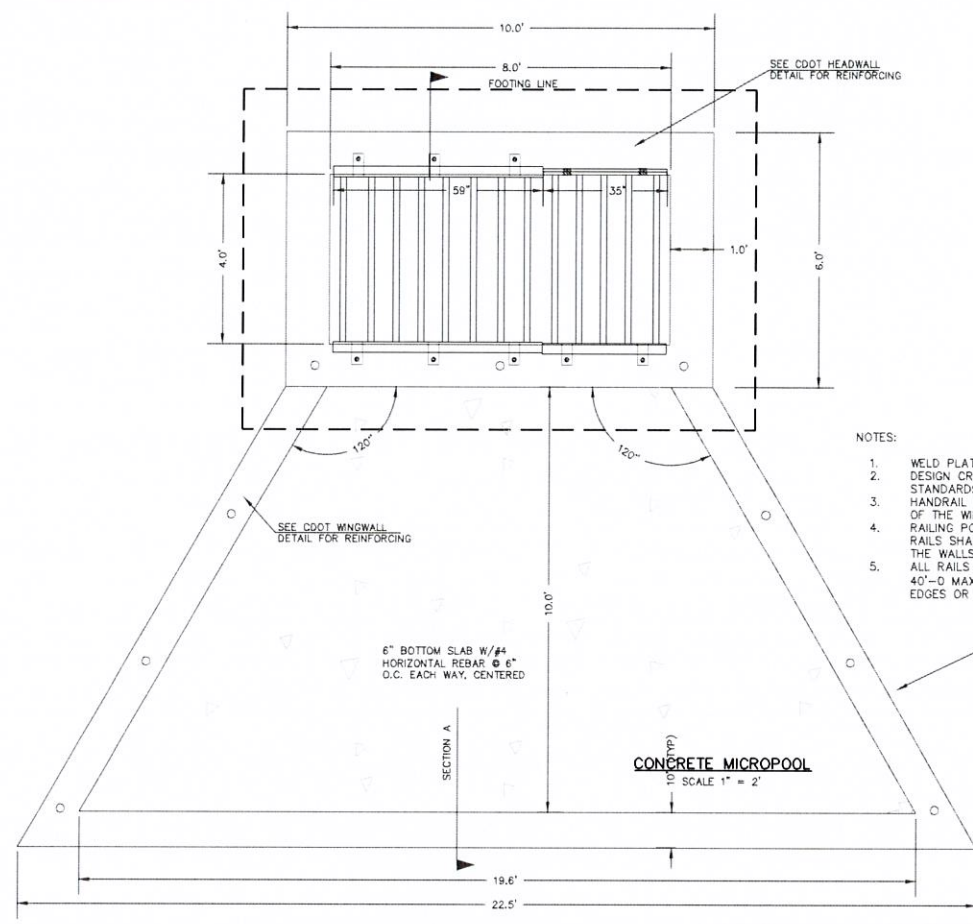
(719)785-0790  
(719)785-0799(Fax)

**PAINT BRUSH CONSTRUCTION**  
DETENTION FACILITY D  
POND PLAN

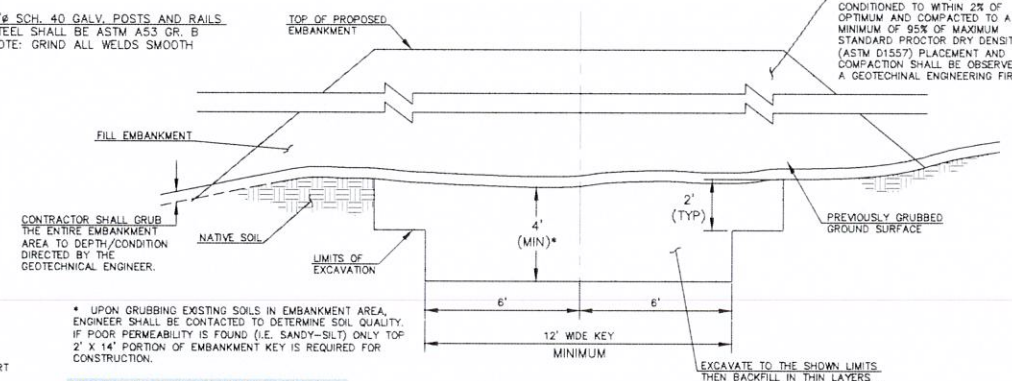
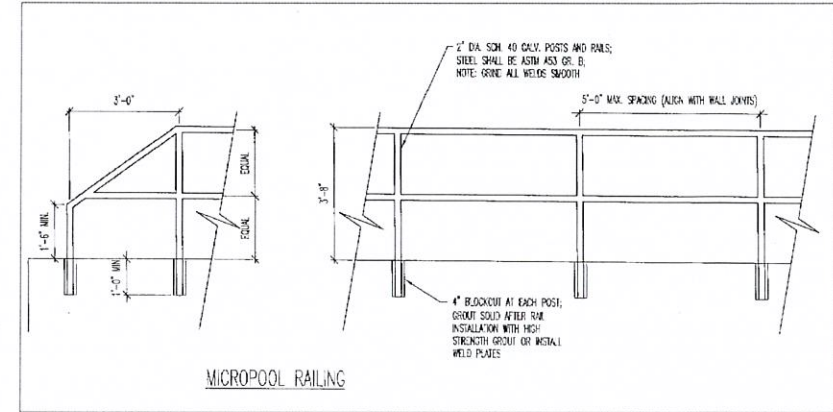
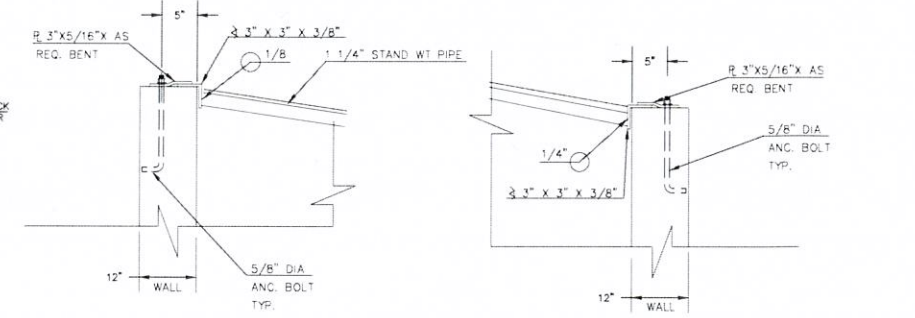
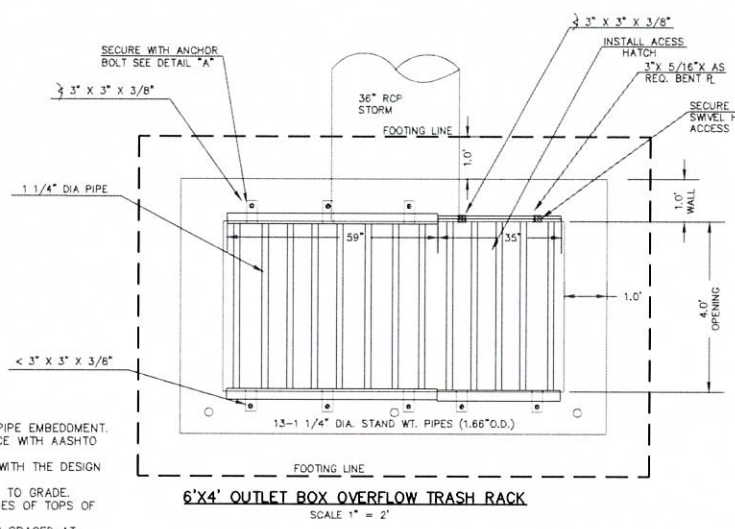
DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 30'	7-12-18
CHECKED BY	(V) 1" = N/A	SHEET 13 OF 15	JOB NO. 2053.50

Update the reference

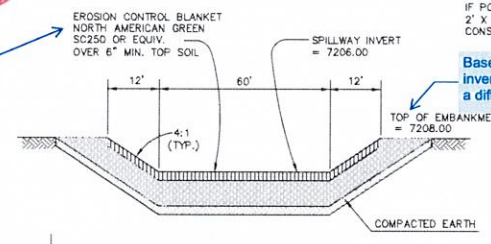
Provide details. Is the second 36" RCP going to be plugged? How does the proposed 36" RCP tie into the existing pipe/headwall?



- NOTES:
1. WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
  2. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
  3. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
  4. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.

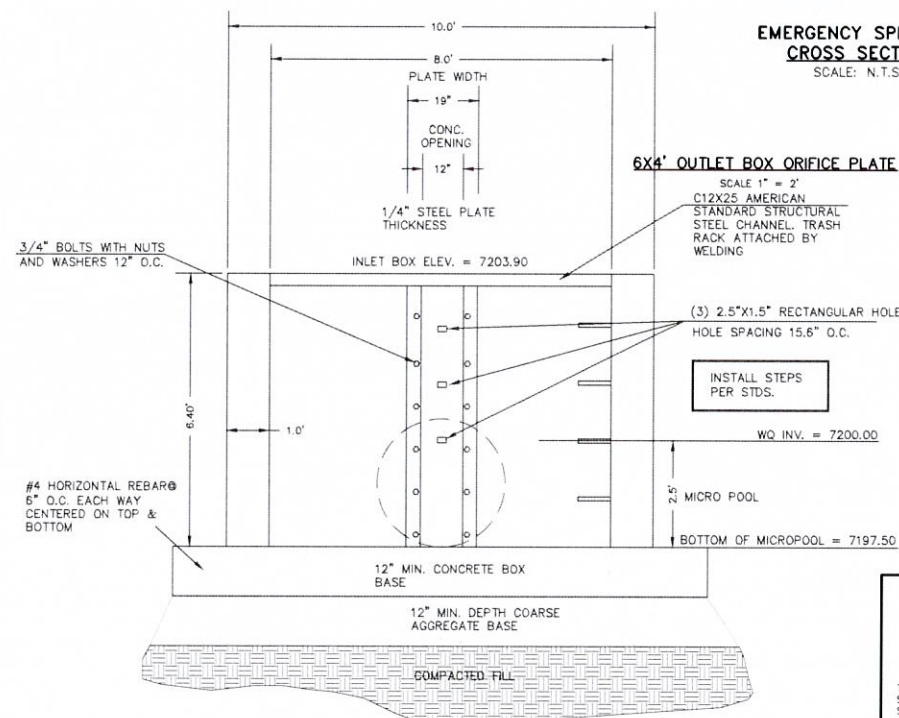


Revise to a soil riprap. See Urban Drainage Flood Control District DCM Volume 2 Figure 12-21



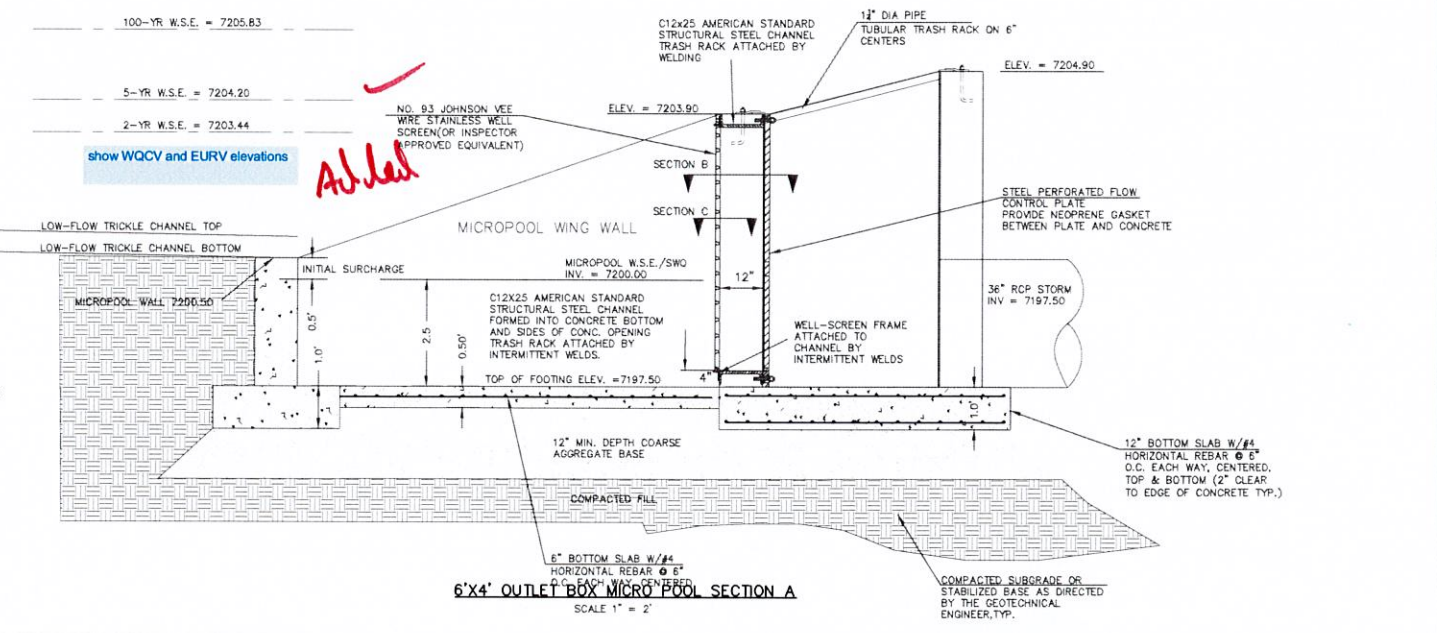
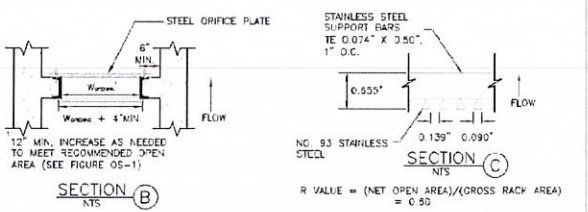
Based on the slope provided, the spillway invert and top of embankment would have a difference of 3'. Revise accordingly.

*adjust*



- (ALL MATERIALS PER TOWN OF MONUMENT SPECIFICATIONS)
- ORIFICE PLATE NOTES:
1. INSTALL HOLES AS SHOWN ON DETAIL TO RIGHT.
  2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
- EURV AND WQCV TRASH RACKS:
3. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
  4. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
  5. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK.
- OVERFLOW TRASH RACKS:
1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
  2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
  3. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
  4. STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

SECTION A  
TYPICAL EMBANKMENT  
WITH SOIL KEYWAY  
SCALE: N.T.S.



6x4' OUTLET BOX MICRO POOL SECTION A  
SCALE 1" = 2'

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NO.	REVISION	DATE	REVIEW:

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MARC A. WHORTON, COLORADO P.E. #37155 DATE

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

PAINT BRUSH HILLS FILING 13A  
CONSTRUCTION PLANS  
DETENTION FACILITY D  
OUTLET BOX DETAILS

DESIGNED BY	MAW	SCALE	DATE
			7-12-18
DRAWN BY	MAW	(H) 1" = N/A	SHEET 14 OF 15
CHECKED BY	(V) 1" = N/A	JOB NO.	2053.50

Revise to the standard County Pedestrian Intersection Ramp detail to SD\_2-41  
 Current detail identifies a detectable warning area with truncated domes

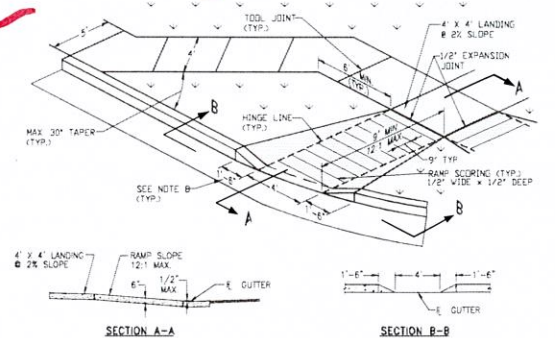
SPEED LIMIT 25



CDOT R1-1 STOP SIGN

CDOT R2-1 SPEED LIMIT SIGN (MINOR RES. STREETS)

Identify the size

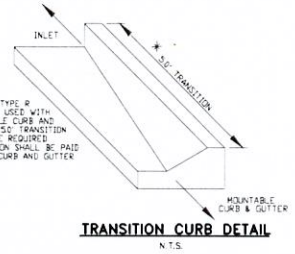


- GENERAL NOTES**
- All work to be done in accordance with current CDOT Standard Specifications.
  - Shoulder cross-slopes shall be 1/4%.
  - Contractor to obtain required Concrete Permit and Report as per Engineering Division Inspection Office prior to construction.
  - Contractor to notify Engineering Division Inspection Office at least 24 hours prior to placement of any concrete.
  - The ramp surfaces shall be finished with a coarse broom finish, parallel with the scoring, in accordance with Standard Specifications.
  - Contractor shall stamp the company name and construction date within the pedestrian ramp area.
  - Ramp location and length may require notification to maintain the 20' minimum running slope and intersection street grades and/or alignment.
  - Where the 1'-6" flared sides of a perpendicular curb ramp is found contiguous with a public walkway, their length shall be increased to 8' minimum and the maximum flare slope shall not exceed 10%.
  - Pedestrian walkway location of existing or future pedestrian ramps on opposite corners shall be reviewed before constructing new ramps. New ramps shall align with existing ramps and pedestrian walkway.
  - Marked pedestrian crossings, the bottom of the ramp, exclusive of the flare sides, shall be totally contiguous with the markings.
  - Shoulder cross-slopes shall be 1/4%.
  - Concrete color shall be L. M. Sealed Company "Santa Barbara Brown" or 2013 Santa Color Company. Pigment No. 578. 5 lbs/bag or an approved equal.
  - Concrete mix design shall conform to the requirements of the color concrete manufacturer and the following:
    - 28-day compressive strength = 4,500 PSI
    - Water/cement ratio = 0.45 (max)
    - Cement content = 6-1/2 sacks/cy (min)
    - Type II cement
    - Maximum aggregate size = 3/4"
    - Entrained air content = 6% - 10%
    - Slump = 1 inch (min) - 4 inches (max)

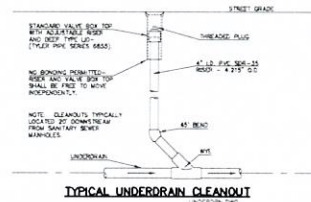
**STANDARD PEDESTRIAN RAMP**

NO SCALE

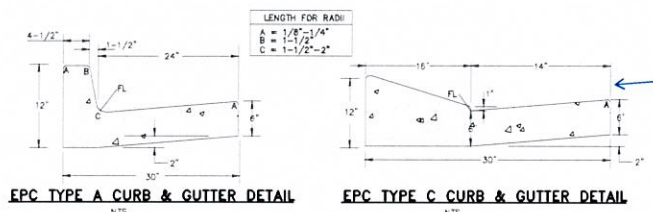
Include detail SD\_2-50 and SD\_2-42



TRANSITION CURB DETAIL

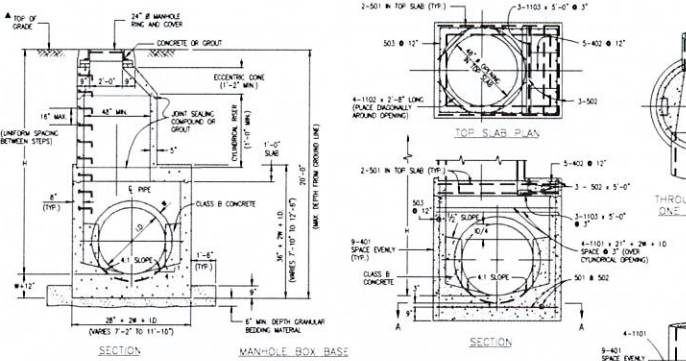


TYPICAL UNDERDRAIN CLEANOUT

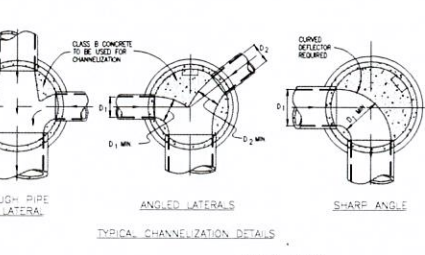


EPC TYPE C CURB & GUTTER DETAIL

EPC TYPE C CURB & GUTTER DETAIL



EPC TYPE A CURB & GUTTER DETAIL



TYPICAL MANHOLE DETAILS

**GENERAL NOTES**

- Since all pipe enters into the base and invertable, the dimensions shown are typical. Actual dimensions and quantities for concrete and reinforcement shall be as required in the work.
- The precast flat top may be used on any manhole, the eccentric cone may be used when the manhole "height" is at least 8' ft.
- The man ring (frame) shall be set in a bed of grout. The frame shall be surrounded with a concrete grout in an unconfined area of a concrete collar in fixed area. See details on sheets 2 and 3.
- Design of box base is based on strength ring of conduit of concrete of less than 45' special design is required for 45' or greater.
- Precast manholes and reinforcement shall conform to ASTM A 478 and Section 10.0 of the Standard Specifications.
- Cast-in-place manholes shall be class B concrete.
- Steps shall be required when the manhole depth exceeds 5' ft. - 8' in. and shall be in accordance with ASTM 1199.
- All reinforcing steel shall have a minimum yield strength of 60,000 PSI. Vertical steel shall be placed at 6" on center. All bars shall have a 2" minimum clearance.
- All pipe entries into the base of manhole shall be connected by open channelization adapted for pipe size, shape, location and direction of flow. Details shown are typical. For installations with all inserts of same relative diameter, for excessive elevation differences between inserts, special base/channel details shall be shown on the plans.
- Flow channels and inverts shall be formed by sawing with class B concrete or approved grout.
- Sub-lets shall extend 3' ft. minimum beyond outside wall surface of manhole and be satisfactory finished.
- Check with the local government authority for any additional sanitary sewer specifications, details or regulations.
- The slope of the manhole cover shall match the roadway profile and cross slope.

**CDOT MANHOLES**  
STD. PLAN NO: M-604-20

**QUANTITIES FOR CONCRETE MANHOLE BOX BASE**

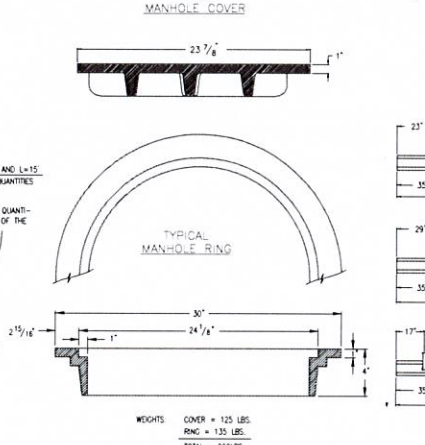
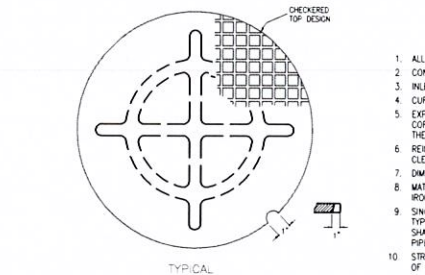
MARK	SIZE	TYPE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
401	4	I	0.668	8'-11"	18	18	18	18	18	18
402	4	II	0.668	8'-11"	18	18	18	18	18	18
501	5	I	1.043	10'-2"	20	20	20	20	20	20
502	5	II	1.043	10'-2"	20	20	20	20	20	20
503	5	III	1.043	10'-2"	20	20	20	20	20	20
504	5	IV	1.043	10'-2"	20	20	20	20	20	20
1101	11	I	5.313	11'-3"	22	22	22	22	22	22
1102	11	II	5.313	11'-3"	22	22	22	22	22	22
1103	11	III	5.313	11'-3"	22	22	22	22	22	22
1104	11	IV	5.313	11'-3"	22	22	22	22	22	22

**TABLE ONE - BAR LIST FOR CURB INLETS, TYPE "R"**

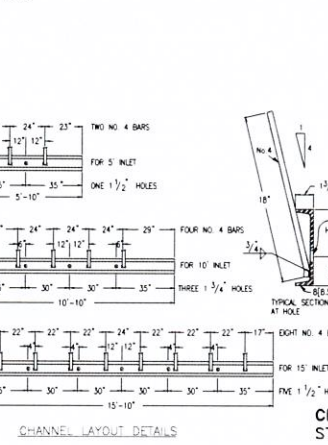
MARK	DIA. IN.	O.C. SPACING	TYPE	ALL INLETS		INLETS, H = 2'		INLETS, H = 5'	
				NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
401	11"	8"	I	15	21	26	31	11	11
402	11"	8"	II	7	13	18	23	7	7
403	9"	8"	III	4	7	9	11	4	4
405	6"	8"	IV	11	16	21	26	11	11
406	6"	8"	V	7	13	18	23	7	7
407	9"	8"	VI	5	10	13	16	5	5
408	12"	8"	VII	3	6	8	11	3	3
409	8"	8"	VIII	6	10	13	16	6	6
410	11"	8"	IX	4	7	9	11	4	4
411	11"	8"	X	4	7	9	11	4	4
412	11"	8"	XI	4	7	9	11	4	4
413	9"	8"	XII	6	10	13	16	6	6
501	5 1/2"	8"	I	11	16	21	26	11	11
502	5 1/2"	8"	II	7	13	18	23	7	7
503	5 1/2"	8"	III	5	10	13	16	5	5
504	5 1/2"	8"	IV	3	6	8	11	3	3
601	3 1/2"	8"	I	2	3	4	5	2	2
602	3 1/2"	8"	II	2	3	4	5	2	2
603	3 1/2"	8"	III	1	2	3	4	1	1
604	3 1/2"	8"	IV	1	2	3	4	1	1

**TABLE TWO - BARS AND QUANTITIES VARIABLE WITH "H"**

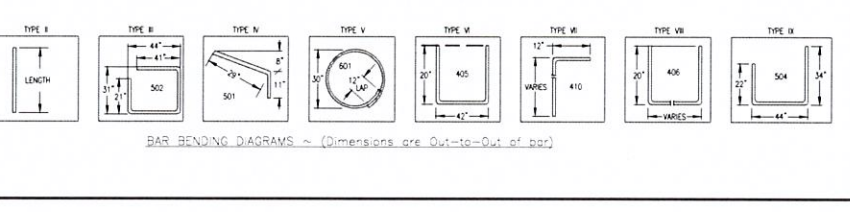
H'	NO. REQ'D		LENGTH		NO. REQ'D		LENGTH	
	REGULAR	DROP BOX	REGULAR	DROP BOX	REGULAR	DROP BOX	REGULAR	DROP BOX
3'-0"	2	2	2	2	2	2	2	2
3'-6"	3	3	3	3	3	3	3	3
4'-0"	4	4	4	4	4	4	4	4
4'-6"	5	5	5	5	5	5	5	5
5'-0"	6	6	6	6	6	6	6	6
5'-6"	7	7	7	7	7	7	7	7
6'-0"	8	8	8	8	8	8	8	8
6'-6"	9	9	9	9	9	9	9	9
7'-0"	10	10	10	10	10	10	10	10
7'-6"	11	11	11	11	11	11	11	11
8'-0"	12	12	12	12	12	12	12	12
8'-6"	13	13	13	13	13	13	13	13
9'-0"	14	14	14	14	14	14	14	14
9'-6"	15	15	15	15	15	15	15	15
10'-0"	16	16	16	16	16	16	16	16
10'-6"	17	17	17	17	17	17	17	17
11'-0"	18	18	18	18	18	18	18	18
11'-6"	19	19	19	19	19	19	19	19



- GENERAL NOTES**
- All concrete shall be class B.
  - Concrete walls shall be formed on both sides and shall be 8" in thick.
  - Inlet steps shall be in accordance with ASTM 1199.
  - Curb face assembly shall be galvanized after welding.
  - Exposed concrete corners shall be chamfered 3/4" in curb and gutter corners shall be finished to match the existing curb and gutter beyond the transition gutter.
  - Reinforcing bars shall be deformed and have a 2" in minimum clearance. All reinforcing bars shall be epoxy coated.
  - Dimensions and weights of typical manhole ring and cover are nominal.
  - Material for manhole rings and covers shall be gray or ductile cast iron conforming to 712.06.
  - Since pipe enters into the inlet are variable, the dimensions shown are typical. Actual dimensions and quantities for concrete and reinforcement shall be as required in the work. Quantities include volumes occupied by pipes.
  - Structural steel shall be galvanized and shall conform to the requirements of 712.06.



CDOT TYPE R INLET  
STD. PLAN NO: M-604-12



48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE	REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WORTON, COLORADO P.E. #37155

**CLASSIC CONSULTING ENGINEERS & SURVEYORS**

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(fax)

PAINT BRUSH HILLS FILING NO. 13E  
CONSTRUCTION PLANS  
DETAIL SHEET

DESIGNED BY: MAW  
SCALE: (H) 1" = NA  
DATE: 7-20-18

DRAWN BY: MAW  
SCALE: (V) 1" = NA  
SHEET 15 OF 15  
JOB NO. 2053.50