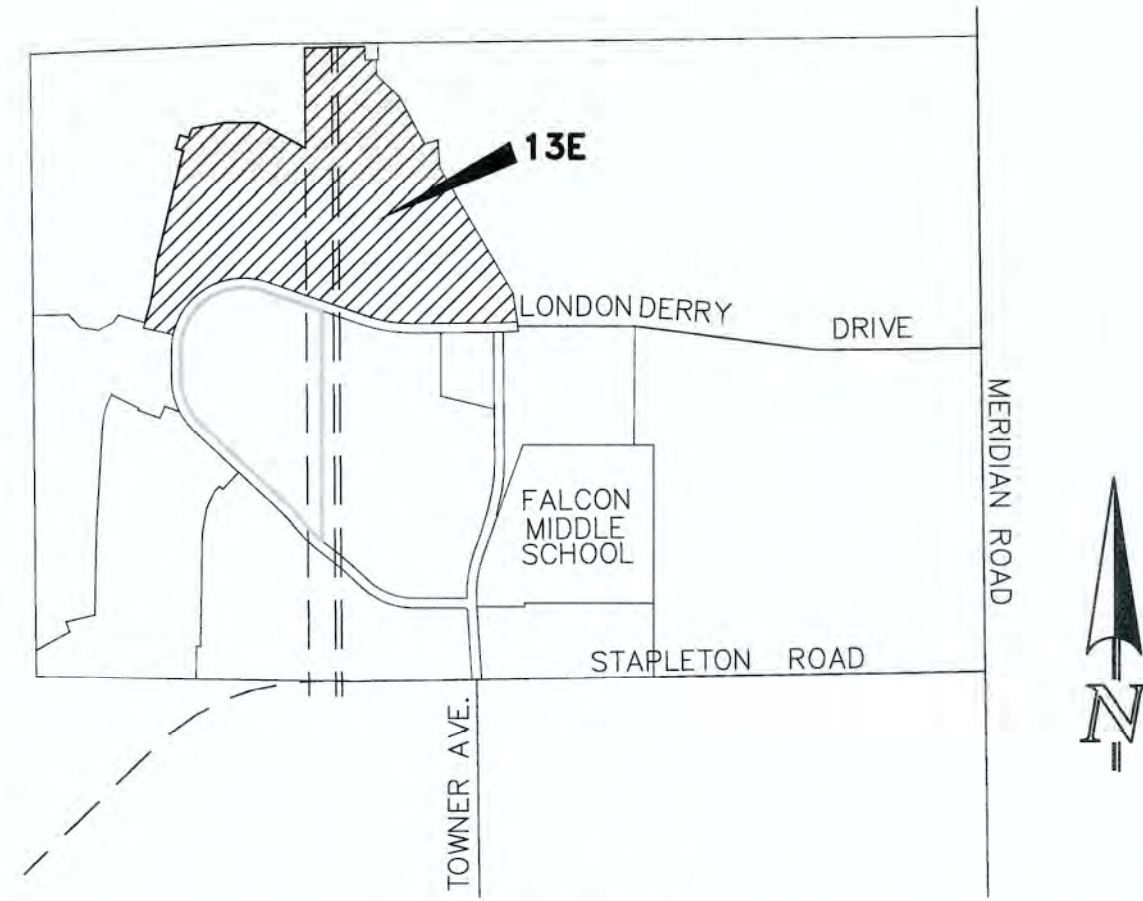


PAINT BRUSH HILLS FILING 13E

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

JULY 2018



VICINITY MAP
NTS

GENERAL CONSTRUCTION NOTES:

1. 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.
2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
3. 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.
4. 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.
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
6. 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.
7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC EGM APPENDIX K - 1.2C.
8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
10. 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.
11. 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.
12. 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.
13. 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.
14. ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
15. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
16. 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 RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
17. 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.
18. 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.
19. 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)

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

1. 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.
2. 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).
3. 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:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - d. CDOT M & S STANDARDS
4. 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 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.
5. 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.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. 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.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCO. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCO.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER EGM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCO PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. 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.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. 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.

SIGNING AND STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. 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.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. 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.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" 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."
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. 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-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. 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. WORK 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.
12. 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.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-8819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

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 LAFORCE (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
7030 N. MERIDIAN RD.
LIMON, COLORADO 80828
MR. LES ULFERS, (719) 495-2283
- FIRE DEPARTMENT:** FALCON FIRE PROTECTION DISTRICT
7030 N. MERIDIAN RD.
FALCON, COLORADO 80831
CHIEF HARMIG (719) 495-4050
- TELEPHONE COMPANY:** CENTURY LINK
(LOCATORS) 811
AT & T
(LOCATORS) 811

BENCHMARKS:

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

CONSTRUCTION PLAN SHEET INDEX

SHEET 1	OF 15	TITLE SHEET
SHEET 1A	OF 15	KEY MAP WITH SIDEWALK LOCATIONS INCLUDING TYPICAL STREET SECTIONS
SHEET 2	OF 15	STREET IMPROVEMENT PLAN (TRIBOROUGH TRAIL)
SHEET 3	OF 15	STREET IMPROVEMENT PLAN (BECKHAM STREET)
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SHEET 13	OF 15	DETENTION FACILITY D POND PLAN
SHEET 14	OF 15	DETENTION FACILITY D OUTLET BOX DETAILS
SHEET 15	OF 15	DETAIL SHEET

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 AND 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 NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.



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

10/19/18
DATE

OWNER/DEVELOPER'S STATEMENT:

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

Jeff Mark
MR. JEFF MARK
AEROPLAZA FOUNTAIN LLC AND HEIDI
LLC

9/25/18
DATE

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 EGM 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.
COUNTY ENGINEER / EGM ADMINISTRATOR

DATE

PCD PROJECT NO. SF-189

<p style="text-align: center;">48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p style="font-size: small;">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.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th style="font-size: x-small;">NO. REVISION</th><th style="font-size: x-small;">DATE</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	NO. REVISION	DATE									<p>REVIEW:</p> <p style="font-size: x-small;">PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <div style="text-align: center;"> MARC A. WHORTON, COLORADO P.E. # 37155 </div> <p style="text-align: right;">10/19/18 DATE</p>	<div style="text-align: center;"> CLASSIC CONSULTING </div>	<p style="text-align: center;">PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS</p> <p style="text-align: center;">TITLE SHEET</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td>DESIGNED BY</td><td>MAW</td><td>SCALE</td><td>DATE</td></tr> <tr> <td>DRAWN BY</td><td>MAW</td><td>(H) 1"= N/A</td><td>7-12-18</td></tr> <tr> <td>CHECKED BY</td><td></td><td>(V) 1"= N/A</td><td>SHEET 1 OF 15</td></tr> <tr> <td></td><td></td><td></td><td>JOB NO. 2053.50</td></tr> </table>	DESIGNED BY	MAW	SCALE	DATE	DRAWN BY	MAW	(H) 1"= N/A	7-12-18	CHECKED BY		(V) 1"= N/A	SHEET 1 OF 15				JOB NO. 2053.50
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PAIN BRUSH HILLS
FILING NO. 3
BOOK US, PAGE 79

PAIN BRUSH HILLS
FILING NO. 2
BOOK PS, PAGE 51

PAIN BRUSH HILLS
FILING NO. 2

EXIST OPEN SPACE

FUTURE
PAIN BRUSH HILLS DEVELOPMENT

TRACT E

TRACT A

TRACT F

TRACT A

PAIN BRUSH HILLS
FILING NO. 2
RECEPTION NO. 201034663

PAIN BRUSH
HILLS FIL. 2

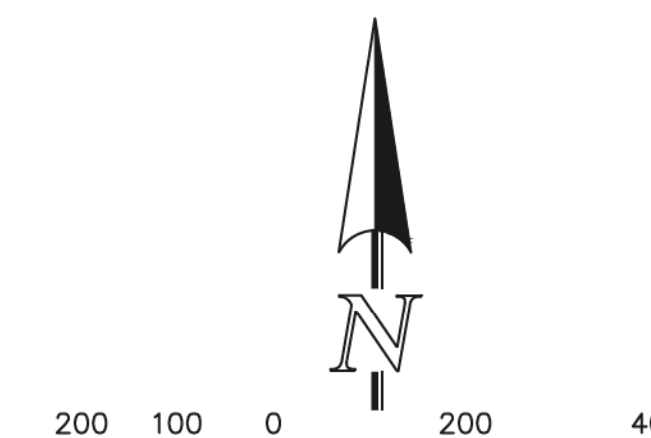
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RECEPTION NO. 218714078

PAIN BRUSH HILLS
FILING NO. 12

CONSTRUCTION PLAN SHEET INDEX

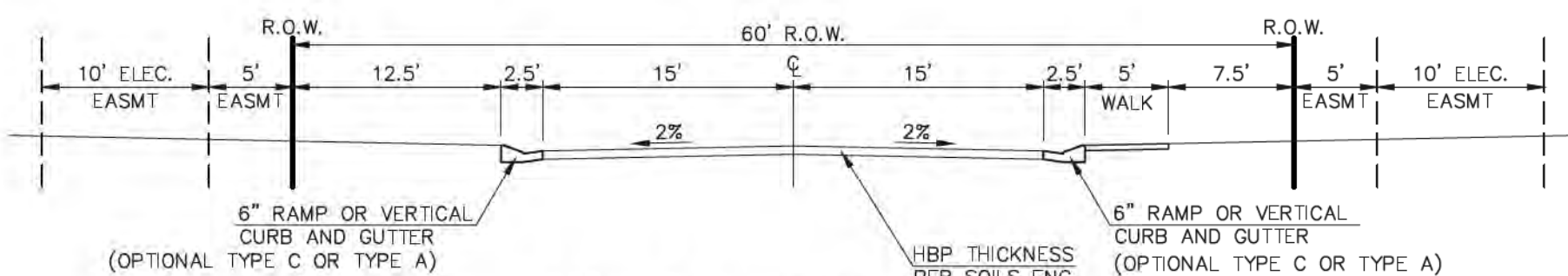
SHEET 1	OF 17	TITLE SHEET
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SHEET 15	OF 17	DETENTION FACILITY D POND PLAN
SHEET 16	OF 17	DETENTION FACILITY D OUTLET BOX DETAILS
SHEET 17	OF 17	DETAIL SHEET



SCALE: 1" = 200'

SIDEWALK LEGEND

- 5' ATTACHED SIDEWALK
- 5' DETACHED SIDEWALK

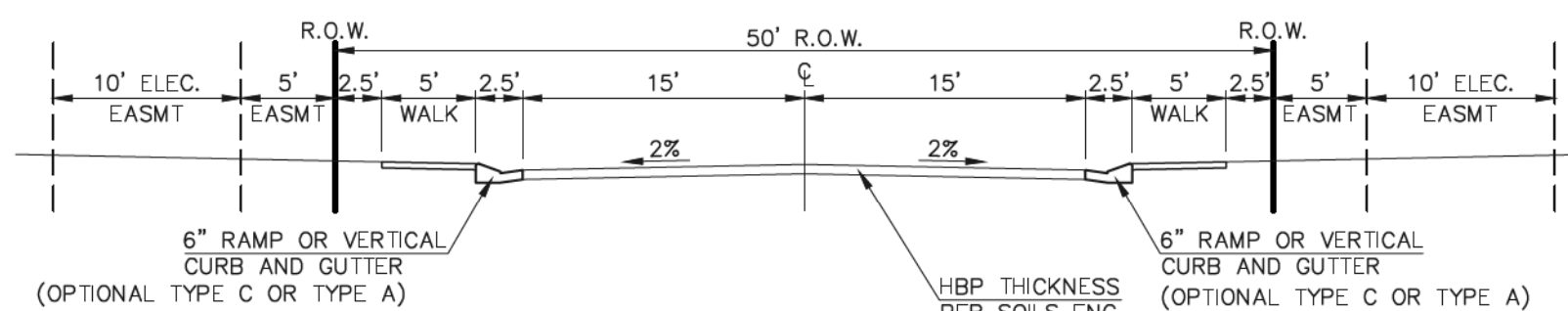


60' R.O.W. STREET SECTION

(URBAN LOCAL)

SCALE: 1" = 10'

-ASBEE STREET & KEATING DRIVE

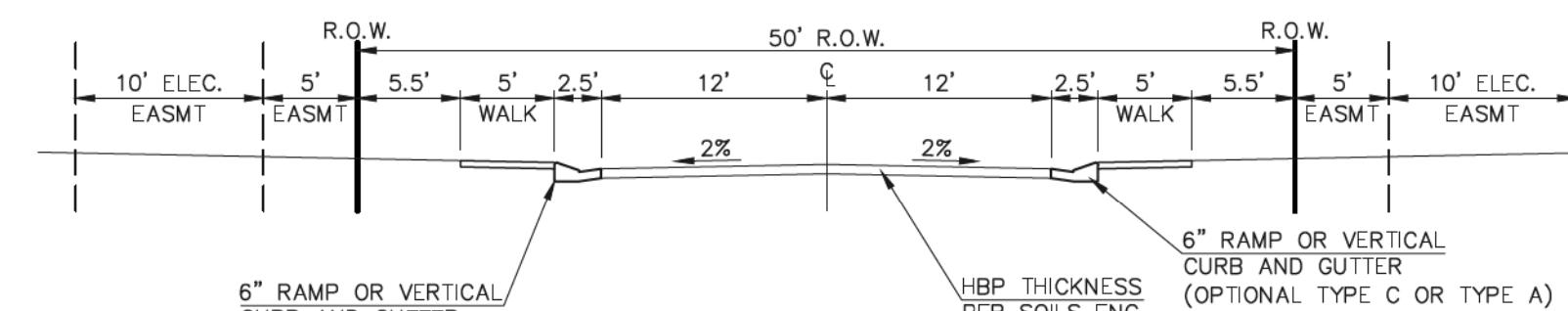


TYPICAL SECTION - 50' R.O.W.

(URBAN LOCAL)

SCALE: 1" = 10'

-DEVONCOVE DRIVE, BECKHAM STREET, BRACKNELL PLACE, TRIBOROUGH TRAIL



TYPICAL SECTION - 50' R.O.W.

(URBAN LOCAL-LOW VOLUME)

SCALE: 1" = 10'

-HILLDALE WAY & WINGFIEL LANE

SIDEWALK NOTES:

1. INSTALL 5' ATTACHED SIDEWALK ONLY WHERE IDENTIFIED ON THE CONSTRUCTION PLANS.

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS

811

UTILITY NOTIFICATION CENTER 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
1	REVISED PER COUNTY COMMENTS	10-18-18

REVIEW:

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



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

10/19/18

DATE



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

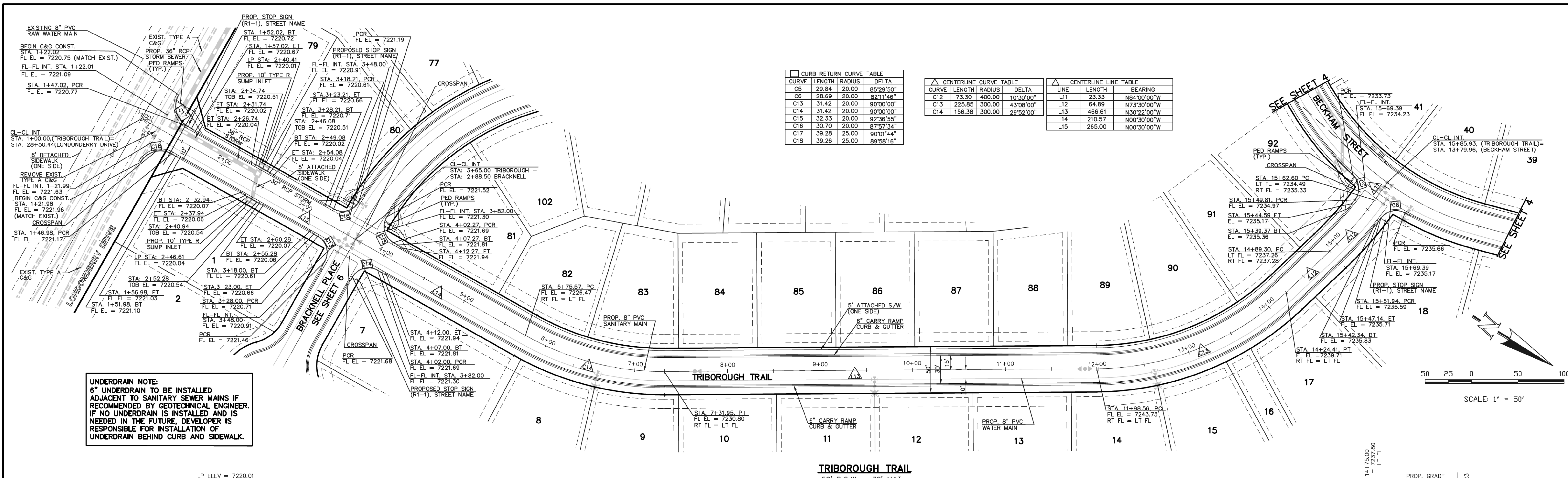
PAIN BRUSH HILLS FILING NO. 13E

CONSTRUCTION PLANS

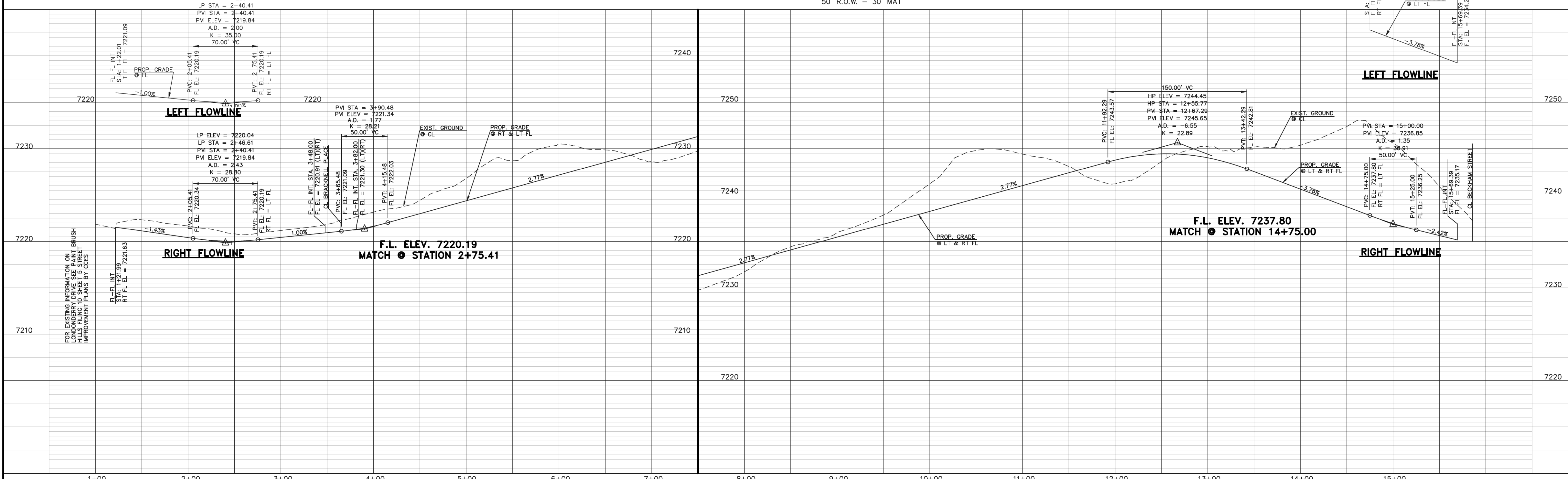
KEY MAP WITH SIDEWALK LOCATIONS
INCLUDING TYPICAL ROAD SECTIONS

DESIGNED BY	MAW	SCALE	DATE	09-18-18
DRAWN BY	PRA	(H) 1" = 200'	SHEET	2 OF 17
CHECKED BY	(V)	1" = N/A	JOB NO.	2053.50

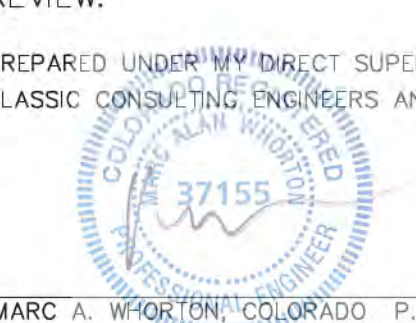


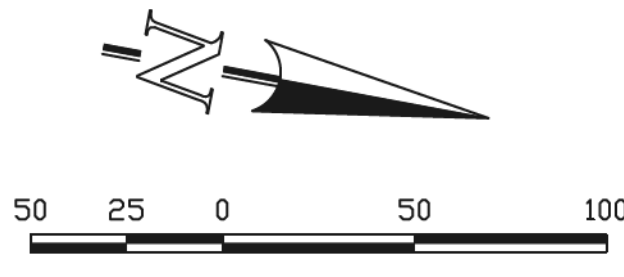


UNDERDRAIN NOTE:
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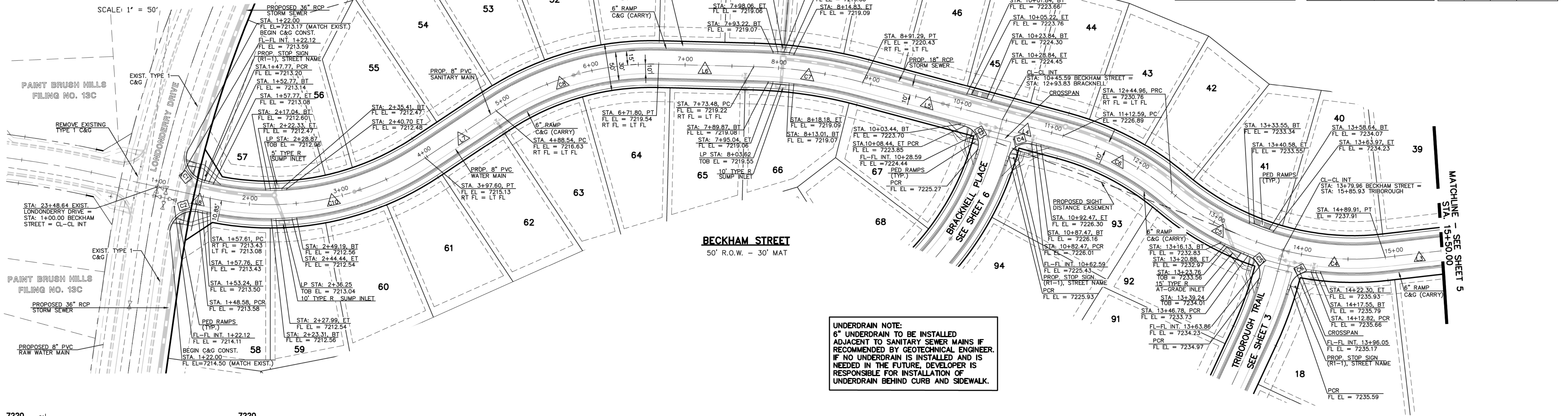


N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM.CDS\053550-501-SHEET 3.dwg, 10/19/2018 11:21:36 AM, 1:1

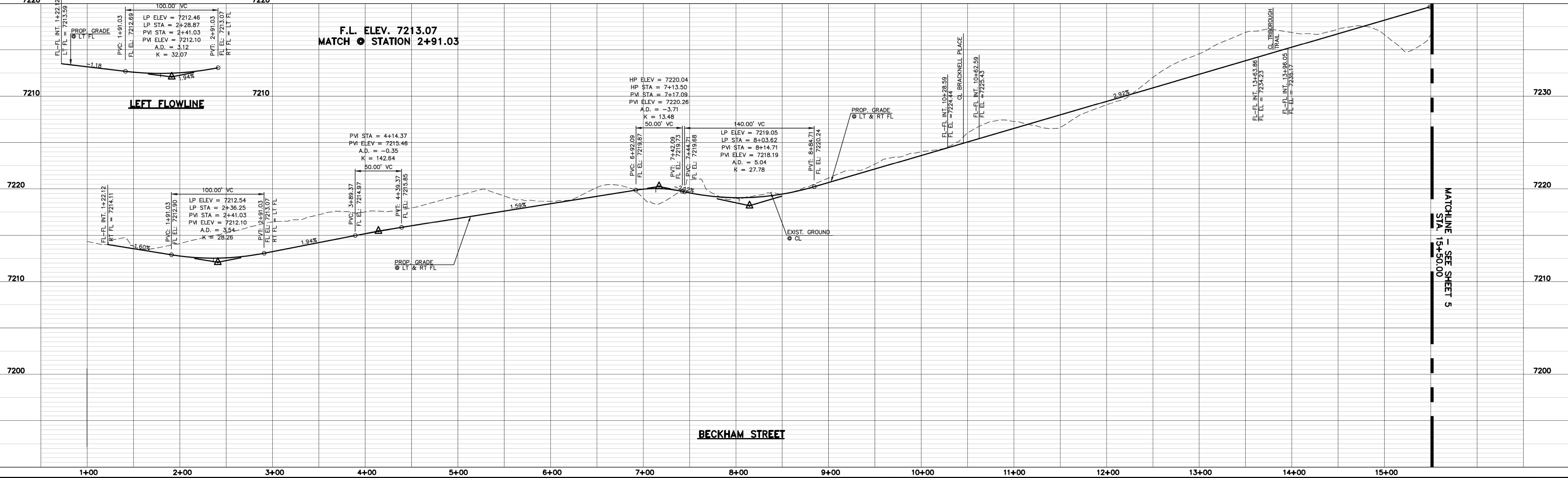
<p>DESIGN DATA: TRIBOROUGH TRAIL</p> <p>SIDEWALKS: WIDTH: 5'</p> <p>LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached</p> <p>CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C</p> <p>R/W WIDTH: 50' MAT WIDTH: 30'</p> <p>STREET TYPE: URBAN LOCAL HVEEM</p>	<p>PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/></p> <p>THICKNESS: _____</p> <p>COMPOSITE SECTION: _____</p> <p>BASE: _____</p> <p>SUBGRADE STABILIZATION: _____</p> <p>CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/></p> <p>TYPE: _____</p> <p>THICKNESS: _____</p>	<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p style="text-align: center;">811</p> <p style="text-align: center;">UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>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.</p>	<p>NO. REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1 REVISED PER COUNTY COMMENTS</td> <td style="width: 50%;">DATE 9-21-18</td> </tr> </table>	1 REVISED PER COUNTY COMMENTS	DATE 9-21-18	<p>REVIEW:</p> <p>PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="text-align: center;">  MARC A. WHORTON, COLORADO P.E. #37155 </p> <p style="text-align: right;">DATE 10/19/18</p>	<p style="text-align: center;">CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)</p>	<p>PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS TRIBOROUGH TRAIL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>MAW</td> <td>SCALE</td> <td>DATE</td> </tr> <tr> <td>DRAWN BY</td> <td>MAW</td> <td>(H) 1" = 50'</td> <td>SHEET 3 OF 17</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = 5'</td> <td>JOB NO.</td> <td>2053.50</td> </tr> </table>	DESIGNED BY	MAW	SCALE	DATE	DRAWN BY	MAW	(H) 1" = 50'	SHEET 3 OF 17	CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50
1 REVISED PER COUNTY COMMENTS	DATE 9-21-18																			
DESIGNED BY	MAW	SCALE	DATE																	
DRAWN BY	MAW	(H) 1" = 50'	SHEET 3 OF 17																	
CHECKED BY	(V) 1" = 5'	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
C1	40.18	25.00	92°05'15"	L3	132.69	S15°00'00"E	C4	109.96	300.00	21°00'00"
C2	40.18	25.00	92°05'15"	L4	67.00	S06°30'00"W	C5	134.99	300.00	29°46'53"
C3	32.10	20.00	91°57'36"	L5	154.30	S06°30'00"W	C6	132.37	300.00	25°16'53"
C4	30.88	20.00	88°28'14"	L6	101.68	S07°00'00"E	C7	117.81	500.00	13°30'00"
C5	29.84	20.00	85°28'50"	L7	90.94	S42°00'00"E	C8	183.26	300.00	35°00'00"
C6	28.69	20.00	82°11'46"	L8	57.61	S03°50'00"W	C10	239.98	300.00	45°00'00"



UNDERDRAIN NOTE:
 6" UNDERDRAIN TO BE INSTALLED ADJACENT TO SANITARY SEWER MAINS IF RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.



DESIGN DATA: BECKHAM STREET

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

PAVEMENT: TYPE: HMA PCC

THICKNESS: _____

COMPOSITE SECTION: _____

BASE: _____

SUBGRADE STABILIZATION: _____

CHEMICAL: MECH.:

TYPE: _____

THICKNESS: _____

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
1	REVISED PER COUNTY COMMENTS	9-21-18

REVIEW: _____

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

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

DATE: 10/19/18

CLASSIC CONSULTING

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
 BECKHAM STREET

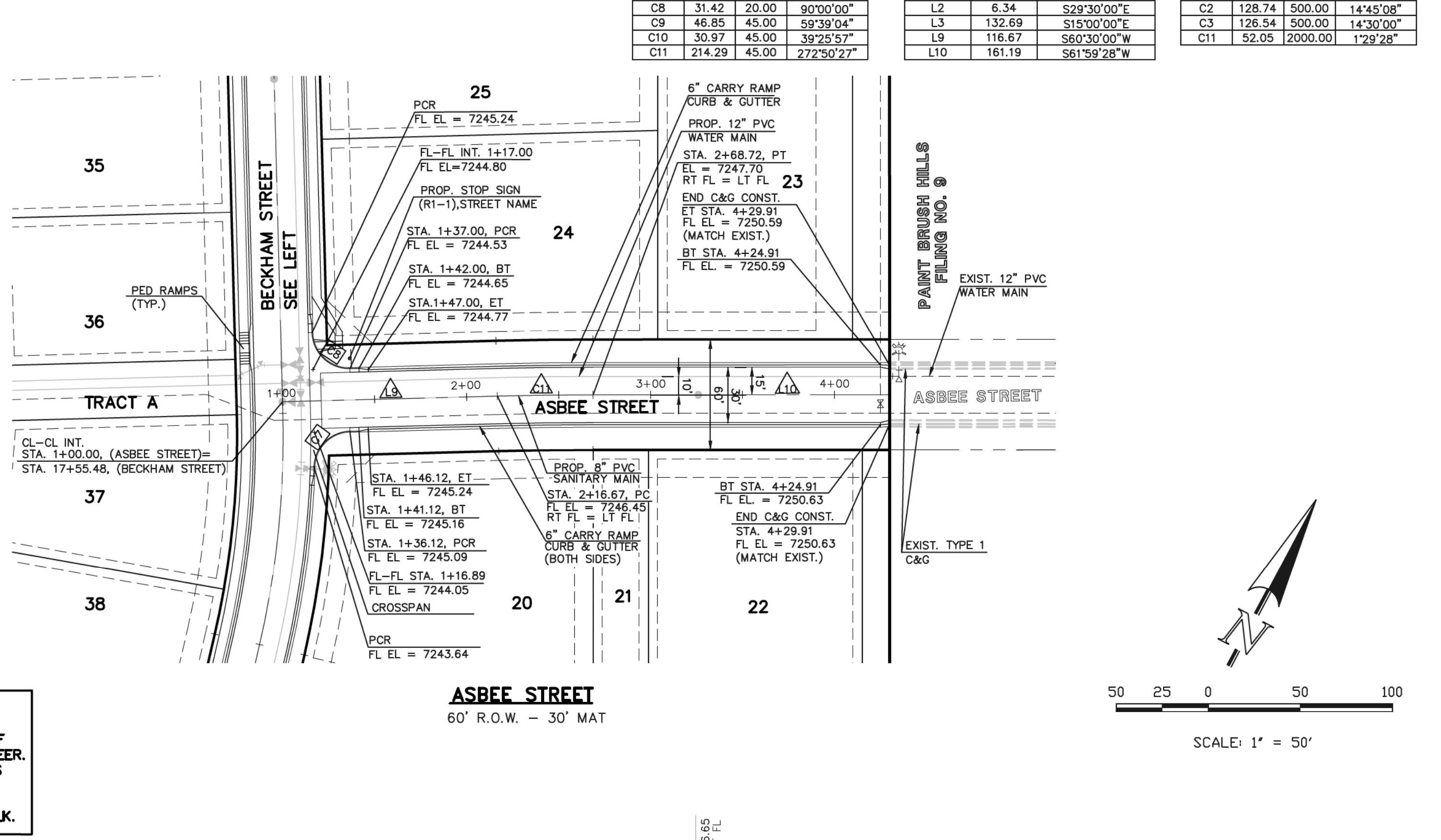
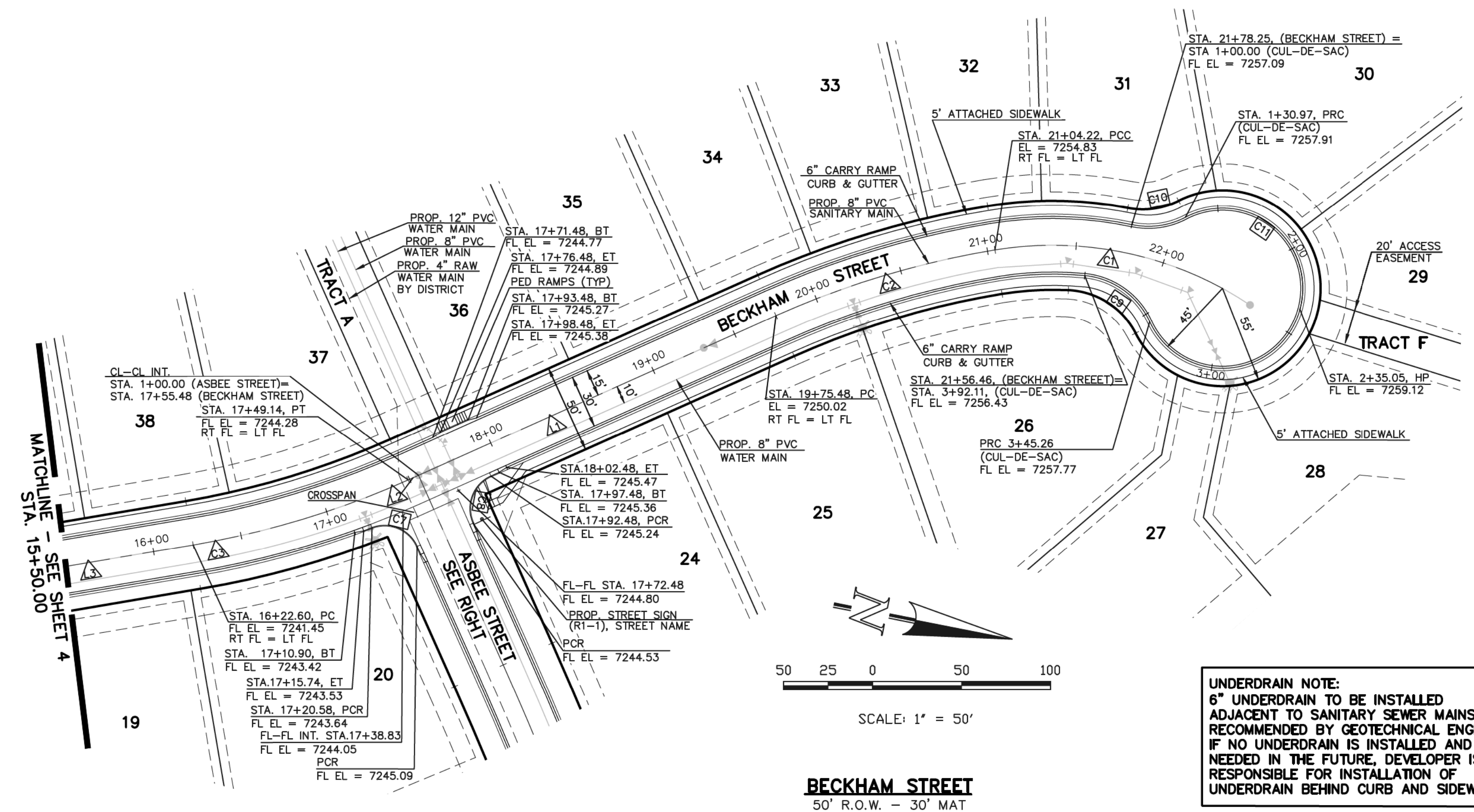
DESIGNED BY	MAW	SCALE	DATE	7-20-18
DRAWN BY	MAW	(H) 1" = 50'	SHEET	4 OF 17
CHECKED BY		(V) 1" = 5'	JOB NO.	2053.50

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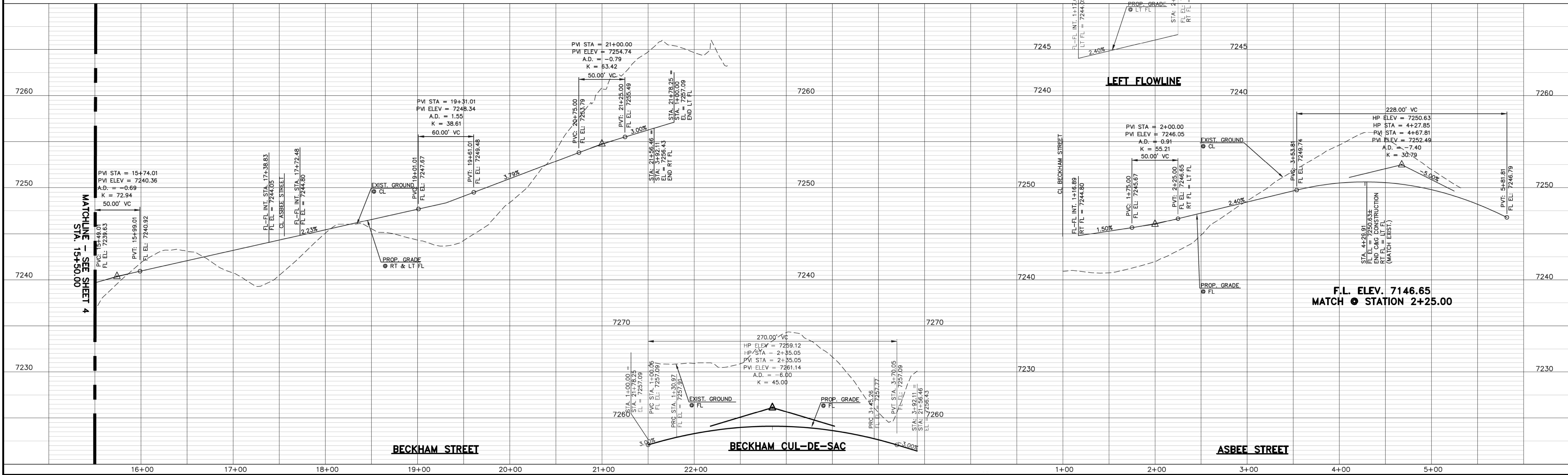
CURVE	LENGTH	RADIUS	DELTA
C7	30.27	20.00	86°43'38"
C8	31.42	20.00	90°00'00"
C9	46.85	45.00	59°39'04"
C10	30.97	45.00	39°25'57"
C11	214.29	45.00	272°50'27"

LINE	LENGTH	BEARING
L1	220.00	S29°30'00"E
L2	6.34	S29°30'00"E
L3	132.69	S15°00'00"E
L9	116.67	S60°30'00"W
L10	161.19	S61°59'28"W

CURVE	LENGTH	RADIUS	DELTA
C1	132.00	200.00	37°48'55"
C2	128.74	500.00	14°45'08"
C3	126.54	500.00	14°30'00"
C11	52.05	2000.00	1°28'28"



UNDERDRAIN NOTE:
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DESIGN DATA: BECKHAM ROAD/ASBEE STREET	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>
SIDEWALKS: WIDTH: 5'	THICKNESS: _____
LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	COMPOSITE SECTION: _____
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C	BASE: _____
R/W WIDTH: 50' / 60' MAT WIDTH: 30'	SUBGRADE STABILIZATION: _____
STREET TYPE: URBAN LOCAL HVEEM _____	CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/>
	TYPE: _____
	THICKNESS: _____

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NO.	REVISION	DATE
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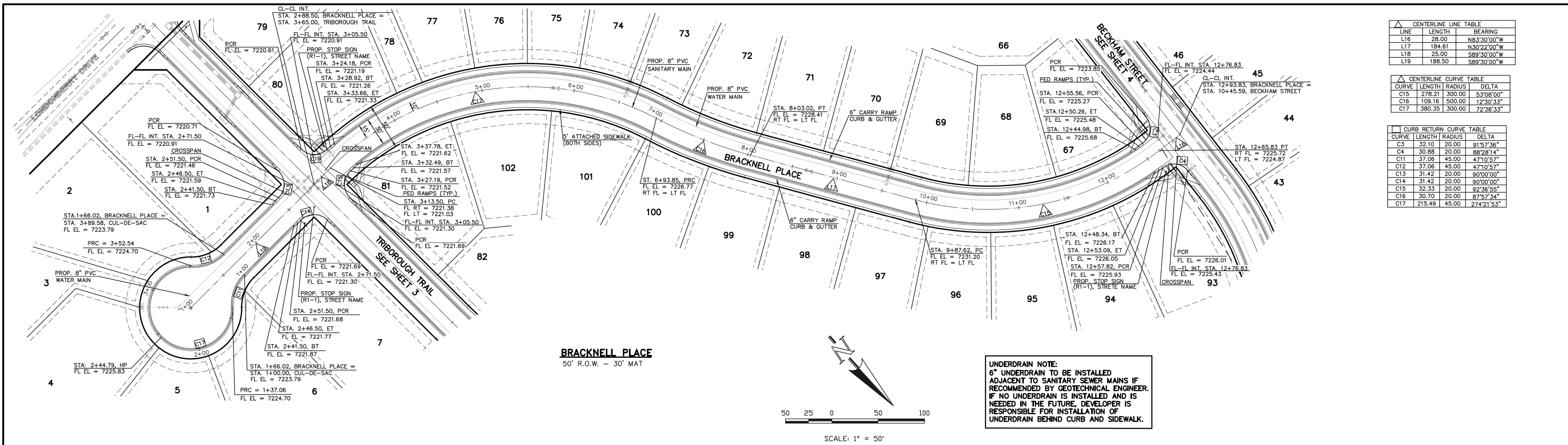
REVIEW: PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

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

DATE: 10/19/18



PAINT BRUSH HILLS FILING 13E			
CONSTRUCTION PLANS			
STREET IMPROVEMENT PLANS			
BECKHAM STREET/ASBEE STREET			
DESIGNED BY	MAW	SCALE	DATE 7-20-18
DRAWN BY	MAW	(H) 1" = 50'	SHEET 5 OF 17
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

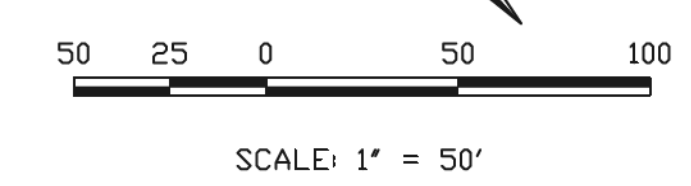


CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L16	28.00	N83°30'00"W
L17	184.61	N30°22'00"W
L18	25.00	S89°30'00"W
L19	188.50	S89°30'00"W

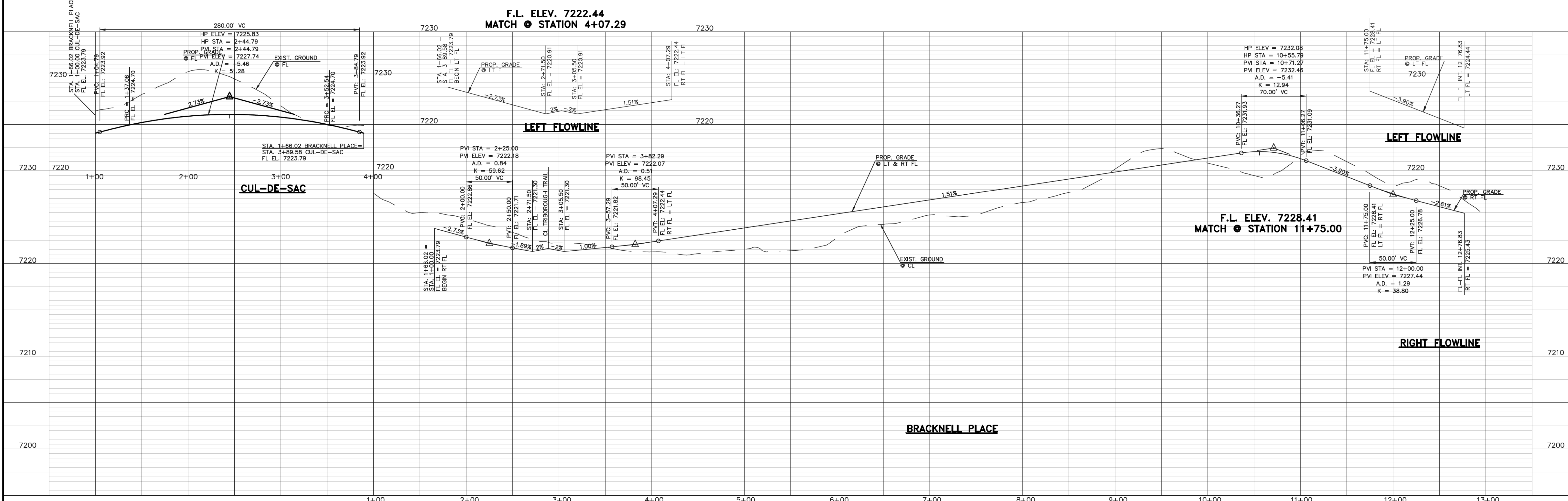
CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C15	278.21	300.00	83°08'00"
C16	109.16	500.00	12°30'33"
C17	380.35	300.00	72°38'33"

CURB RETURN CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C3	32.10	20.00	91°57'36"
C4	30.88	20.00	88°28'14"
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°36'55"
C16	30.70	20.00	87°57'34"
C17	215.49	45.00	274°21'53"

BRACKNELL PLACE
50' R.O.W. - 30' MAT



UNDERDRAIN NOTE:
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DESIGN DATA: BRACKNELL PLACE

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

PAVEMENT: TYPE: HMA PCC

THICKNESS: _____

COMPOSITE SECTION: HMA _____ BASE _____ SUBGRADE STABILIZATION: _____ CHEMICAL: MECH.:

TYPE: _____ THICKNESS: _____

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DATE: 10/19/18



PAINT BRUSH HILLS FILING 13E

CONSTRUCTION PLANS

STREET IMPROVEMENT PLANS

BRACKNELL PLACE

DESIGNED BY: MAW SCALE: DATE: 7-20-18

DRAWN BY: MAW (H) 1" = 50' SHEET 6 OF 17

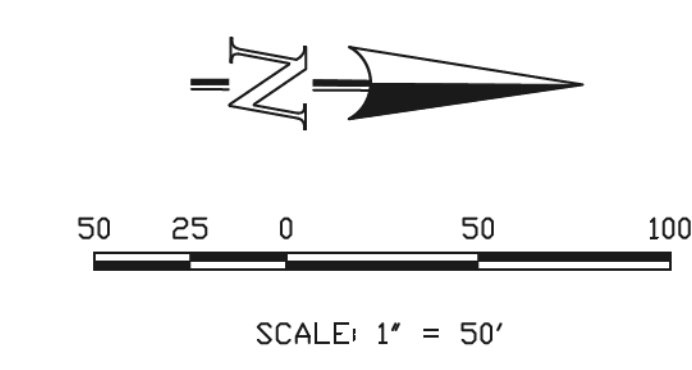
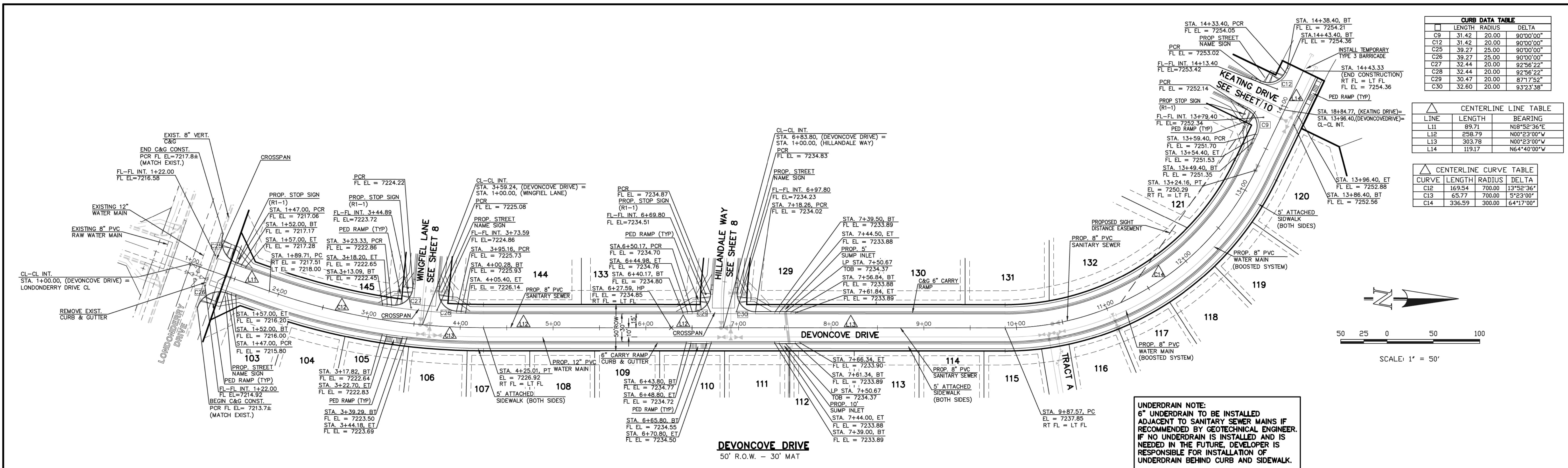
CHECKED BY: (V) 1" = 5' JOB NO.: 2053.50

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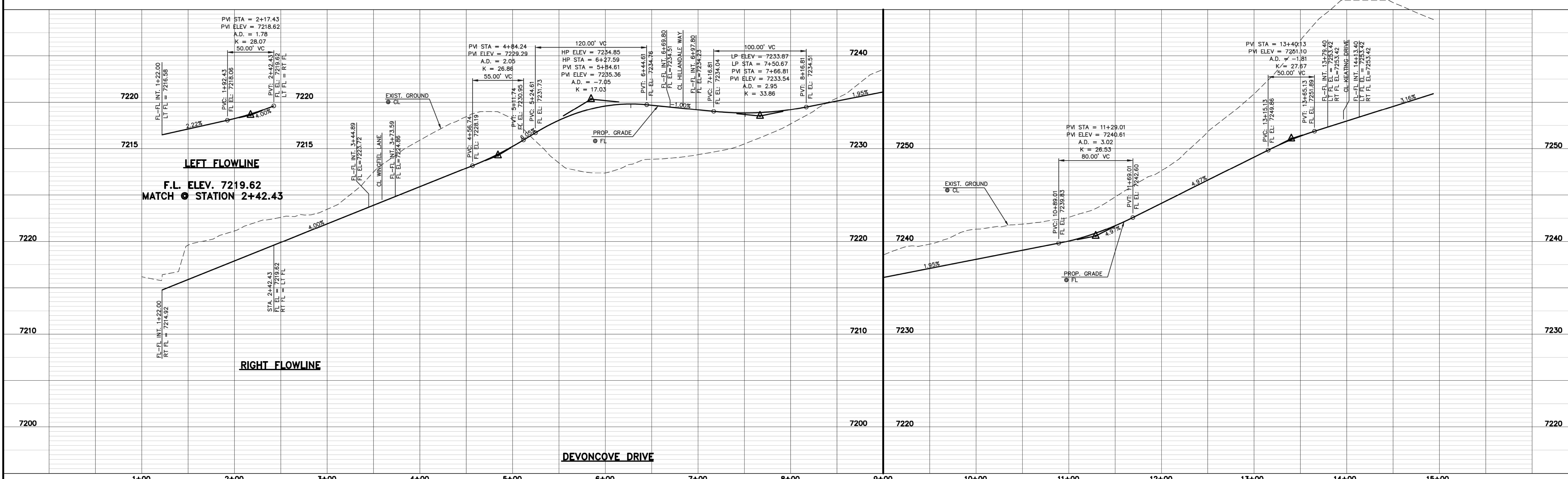
CURB DATA TABLE			
LENGTH	RADIUS	DELTA	
C9	31.42	20.00	90°00'00"
C12	31.42	20.00	90°00'00"
C25	39.27	25.00	90°00'00"
C26	39.27	25.00	90°00'00"
C27	32.44	20.00	92°56'22"
C28	32.44	20.00	92°56'22"
C29	30.47	20.00	87°17'52"
C30	32.60	20.00	93°23'38"



CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L11	89.71	N18°52'36"E
L12	258.79	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	137°55'36"
C13	65.77	700.00	51°23'00"
C14	336.59	300.00	64°17'00"



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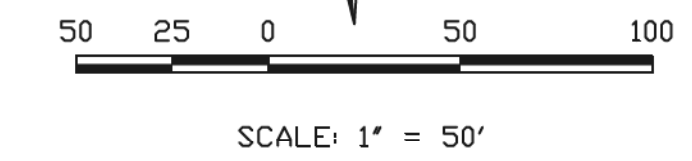
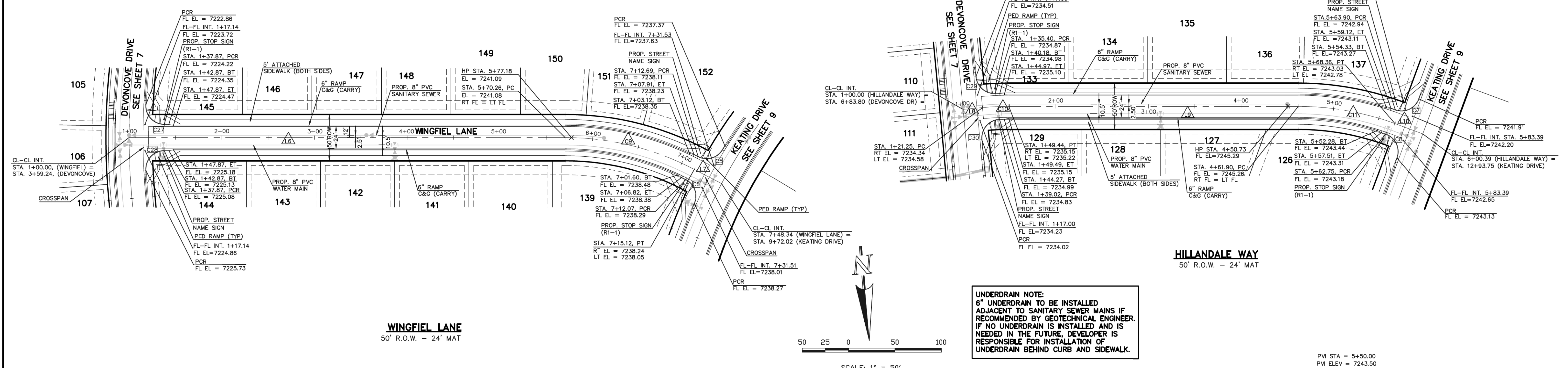
DESIGN DATA: DEVONCOVE DRIVE SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C R/W WIDTH: 50' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: HMA _____ BASE: _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	<p style="text-align: center;">811</p> <p style="text-align: center;">UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>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.</p>	NO. REVISION 1 REVISED PER COUNTY COMMENTS DATE: 9-20-18	REVIEW: PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  MARC A. WHORTON, COLORADO P.E. #37155 DATE: 10/19/18	 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 DEVONCOVE DRIVE DESIGNED BY: MAW DRAWN BY: MAW CHECKED BY: _____ SCALE: (H) 1" = 50' (V) 1" = 5' DATE: 7-20-18 SHEET 7 OF 17 JOB NO. 2053.50
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N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM_CDS\205350-505-SHEET 7.dwg, 10/19/2018 11:27:07 AM, 1:1

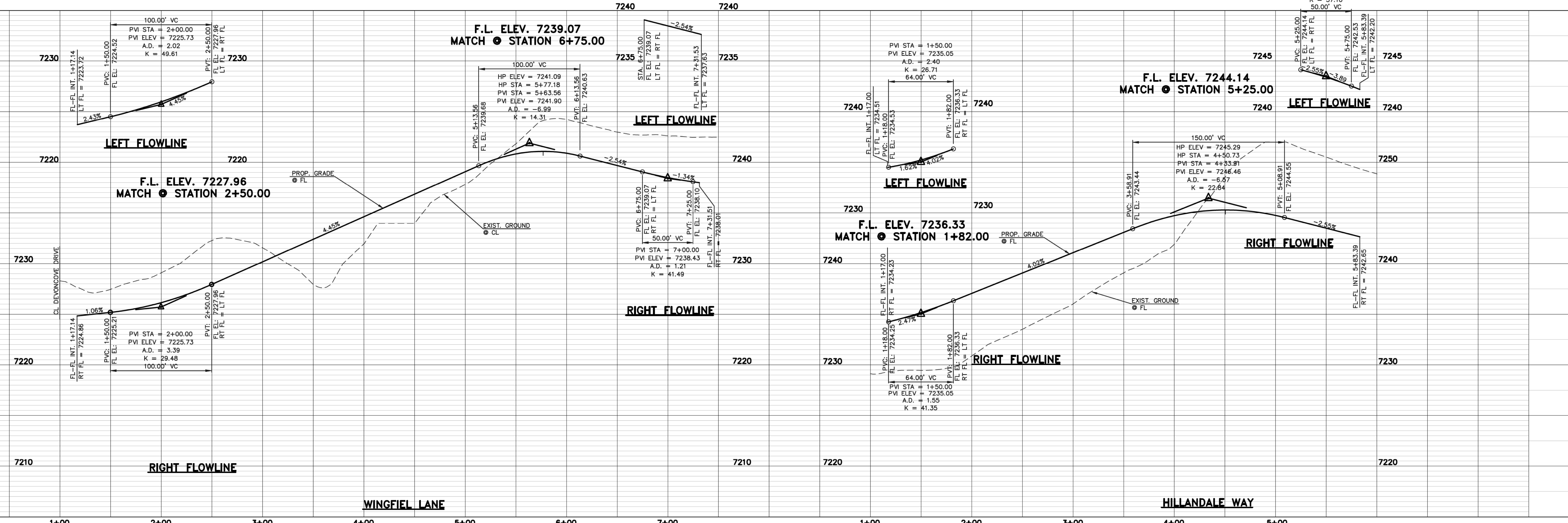
CURB DATA TABLE			
NO.	LENGTH	RADIUS	DELTA
C5	29.99	20.00	85°54'26"
C6	30.35	20.00	86°57'02"
C7	31.12	20.00	89°08'48"
C8	31.79	20.00	91°04'17"
C27	32.44	20.00	92°56'22"
C28	32.44	20.00	92°56'22"
C29	30.47	20.00	87°17'52"
C30	32.60	20.00	93°23'38"

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L6	470.26	S85°00'00"E
L7	33.22	N57°20'00"W
L8	21.25	N89°37'00"E
L9	312.46	S85°00'00"E
L10	32.03	N64°40'00"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C9	144.86	300.00	27°40'00"
C10	28.19	300.00	5°23'00"
C11	106.47	300.00	20°20'00"



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DESIGN DATA: WINGFIEL LANE/HILLDALE WAY
 SIDEWALKS: WIDTH: 5'
 LOCATION: Attached Detached
 CURB TYPE: 1 2 3 A C
 R/W WIDTH: 50' MAT WIDTH: 24'
 STREET TYPE: URBAN LOCAL LV HVEEM

PAVEMENT: TYPE: HMA PCC
 THICKNESS: _____
 COMPOSITE SECTION: HMA _____ BASE _____ SUBGRADE STABILIZATION: _____ CHEMICAL: MECH.: TYPE: _____ THICKNESS: _____

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

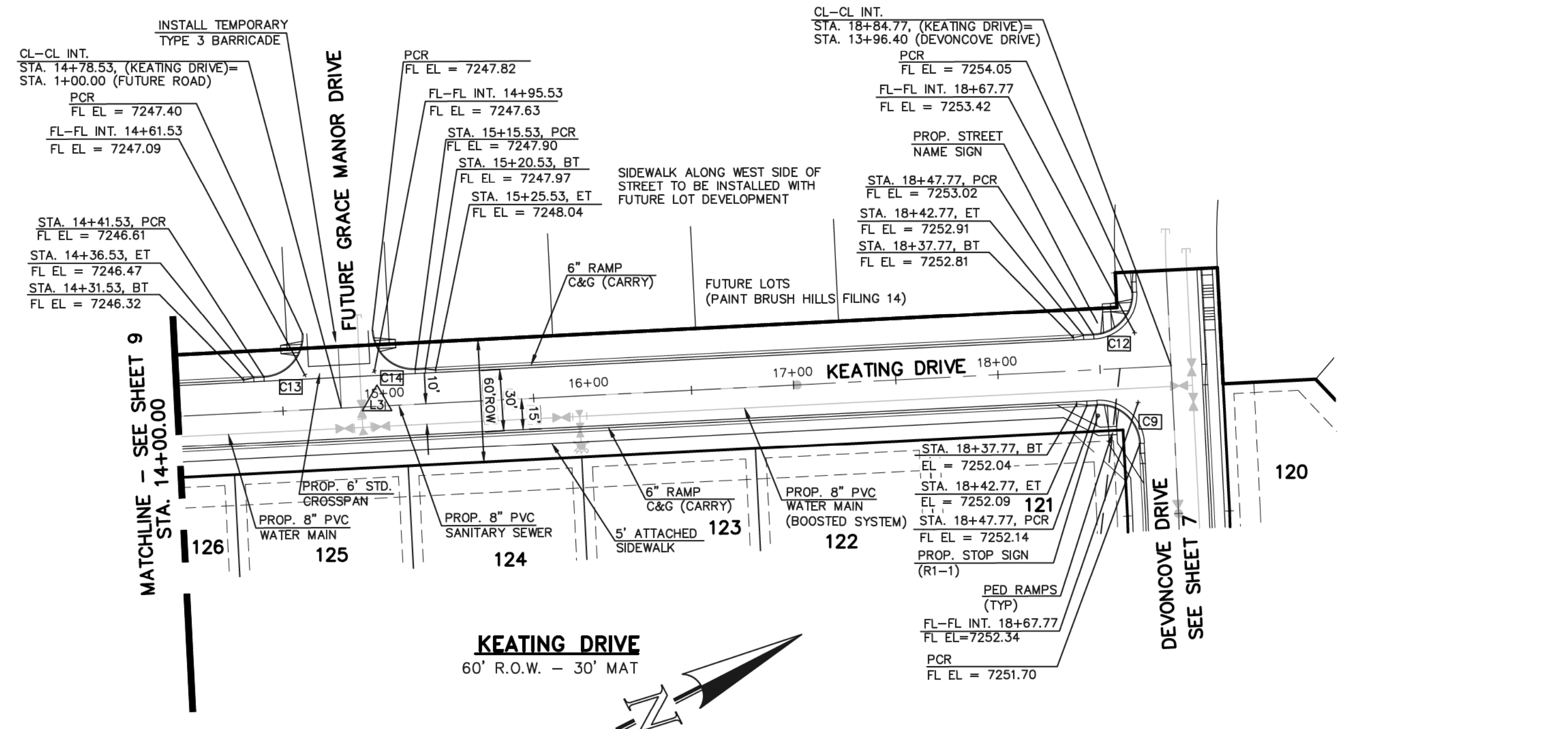
DATE: 10/19/18



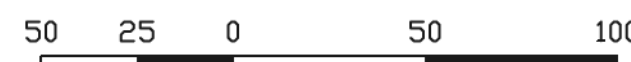
PAINT BRUSH HILLS FILING 13E
 CONSTRUCTION PLANS
 STREET IMPROVEMENT PLANS
 WINGFIEL LANE / HILLDALE WAY

DESIGNED BY: MAW SCALE: (H) 1" = 50' DATE: 7-20-18
 DRAWN BY: MAW SCALE: (V) 1" = 5' SHEET 8 OF 17
 CHECKED BY: _____ JOB NO.: 2053.50

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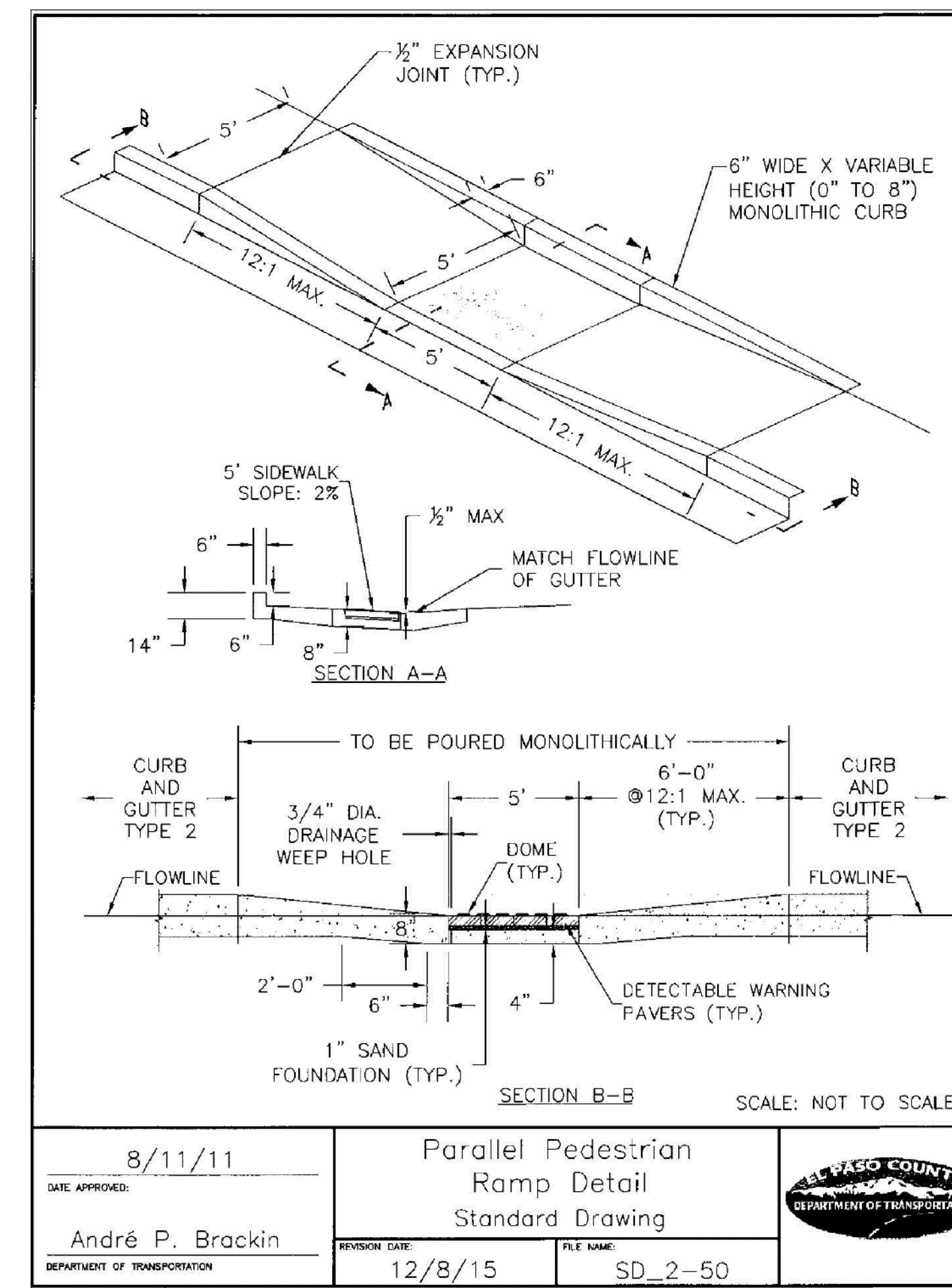
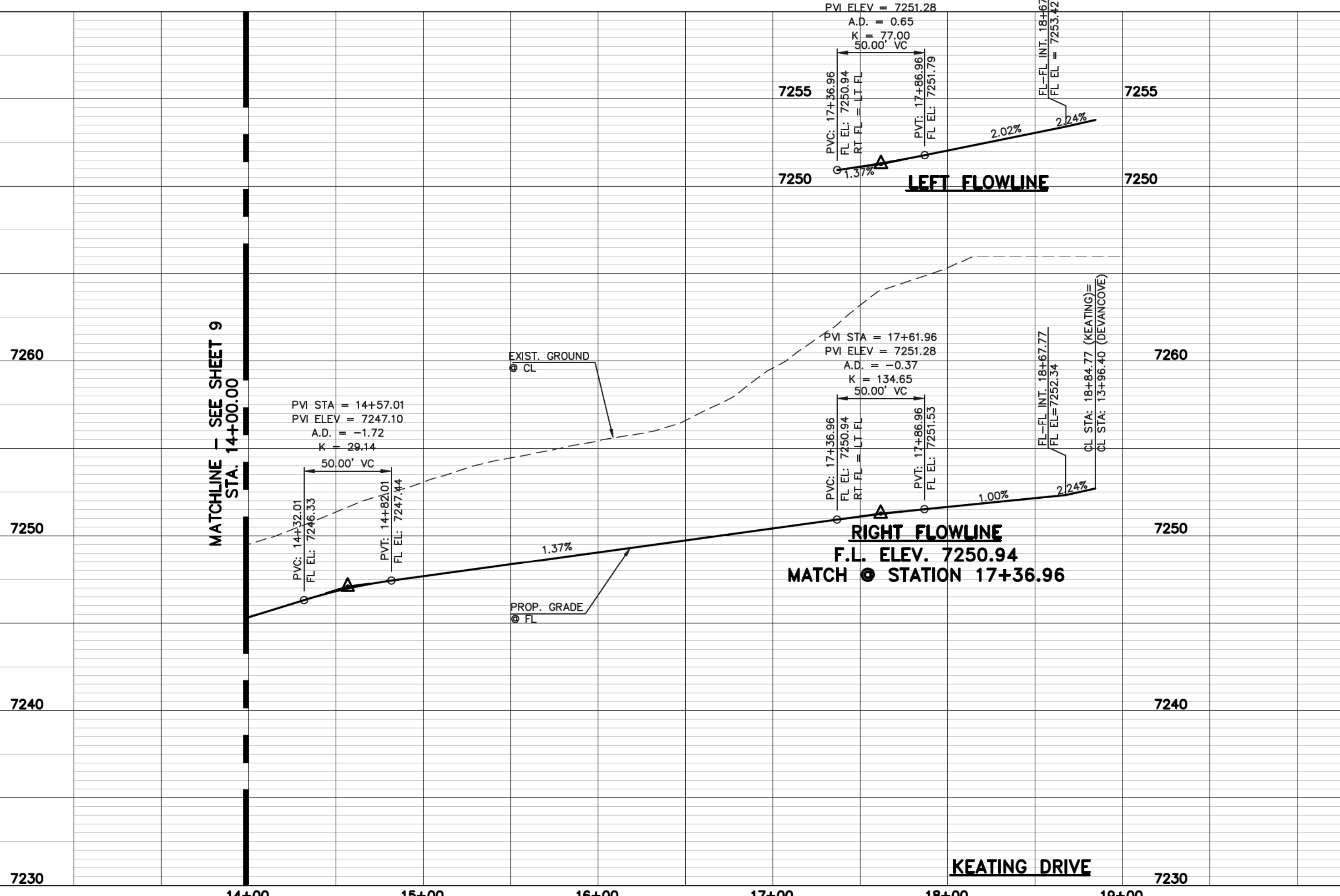
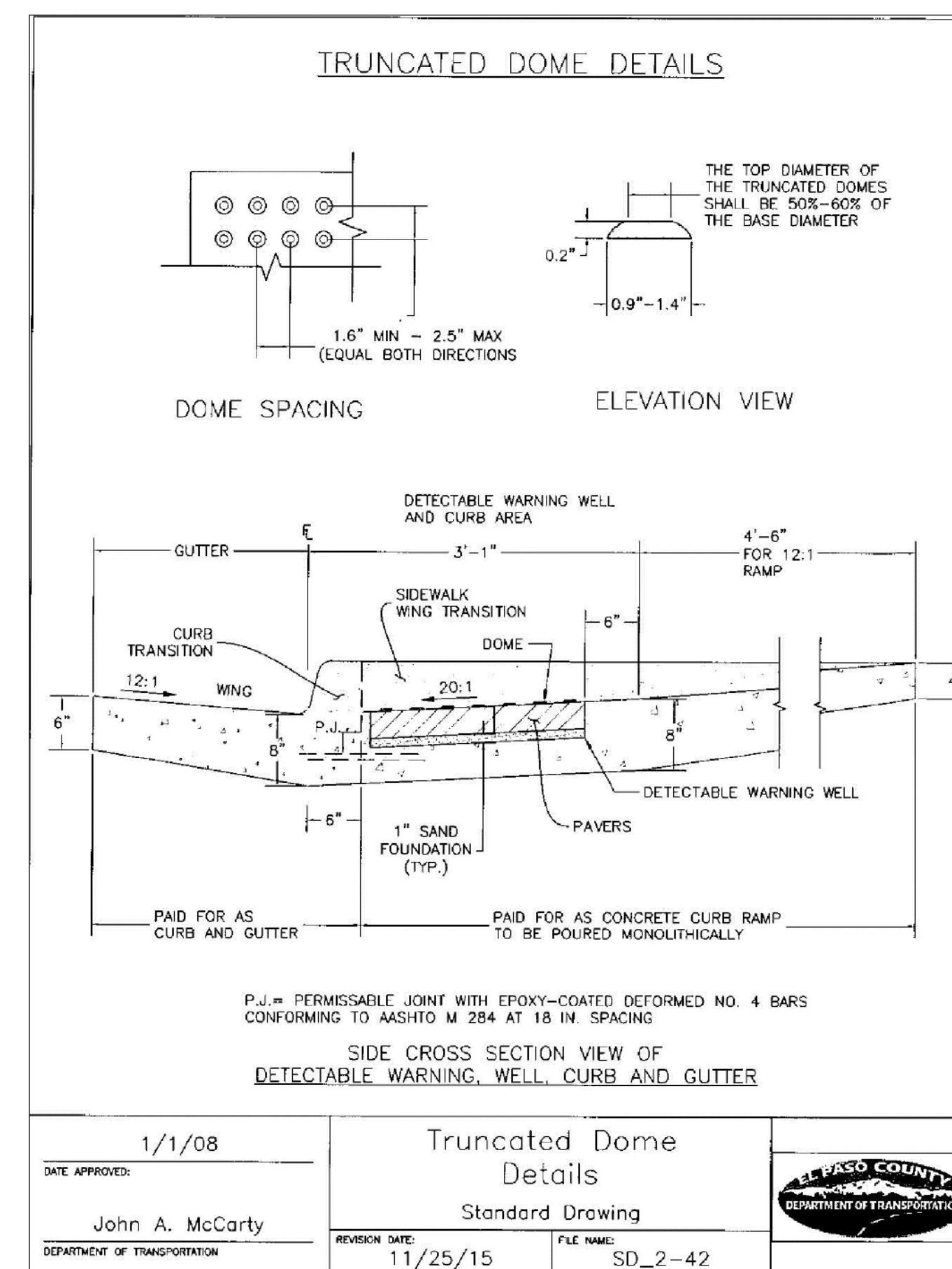
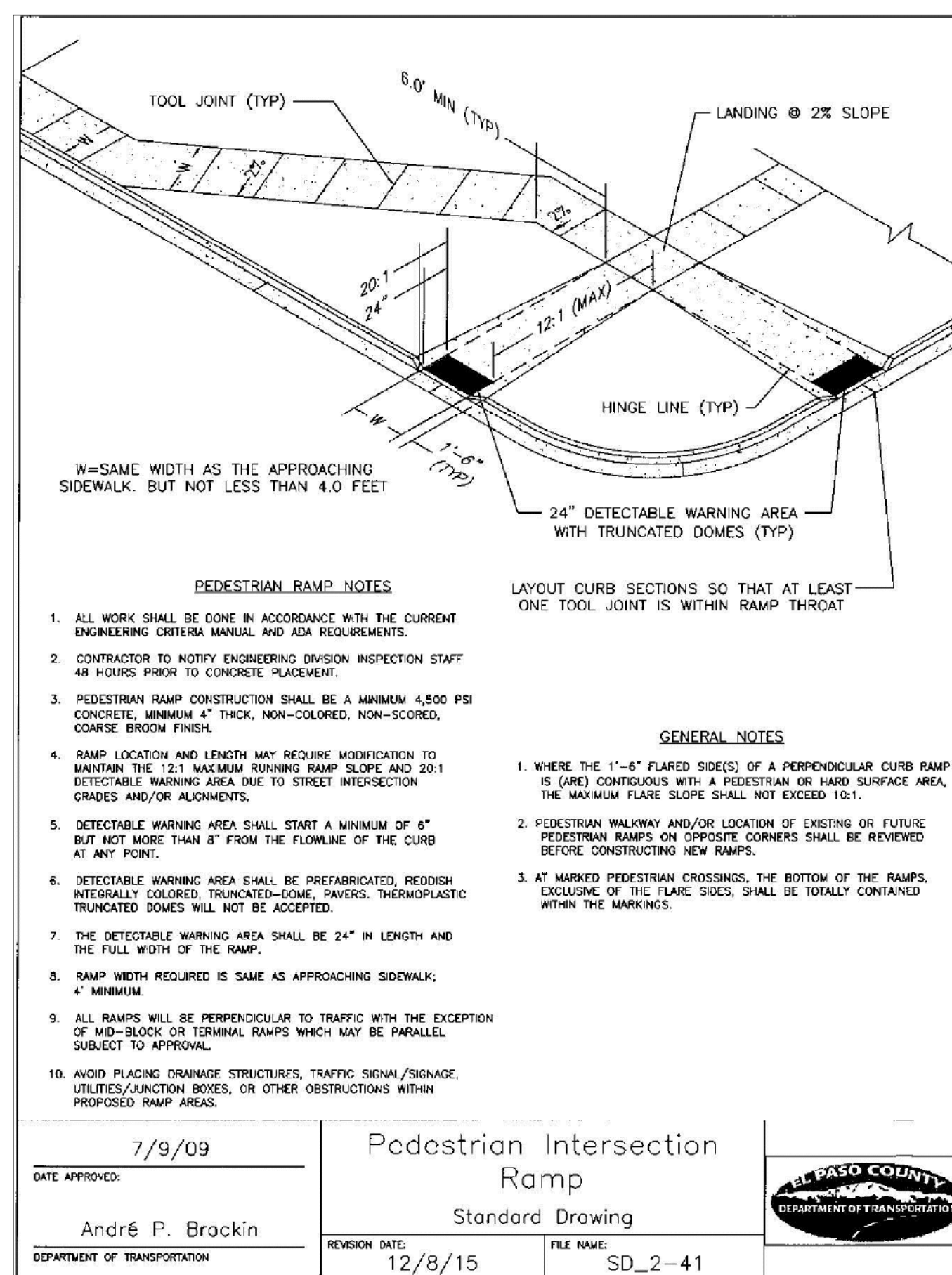
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L3	591.02	N25°20'00"E



SCALE: 1" = 50'

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"

UNDERDRAIN NOTE:
 6" UNDERDRAIN TO BE INSTALLED ADJACENT TO SANITARY SEWER MAINS IF RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.



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 60' MAT WIDTH 30'

STREET TYPE URBAN LOCAL HVEEM _____

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
1	REVISED PER COUNTY COMMENTS	9-20-18

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

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

10/19/18

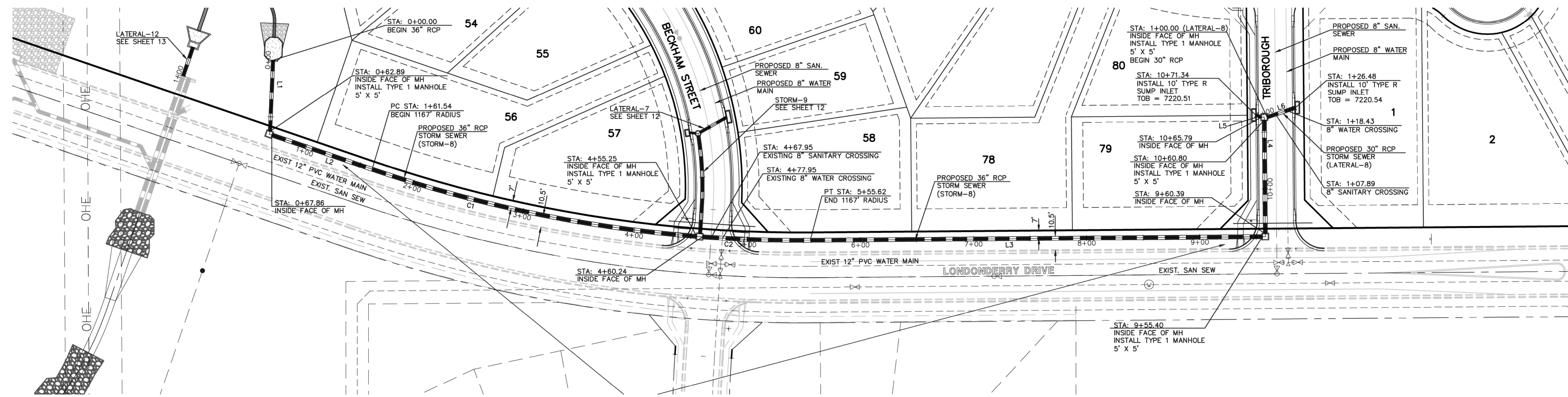
CLASSIC CONSULTING

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 10 OF 17
 CHECKED BY (V) 1" = 5' JOB NO. 2053.50

CLASSIC CONSULTING

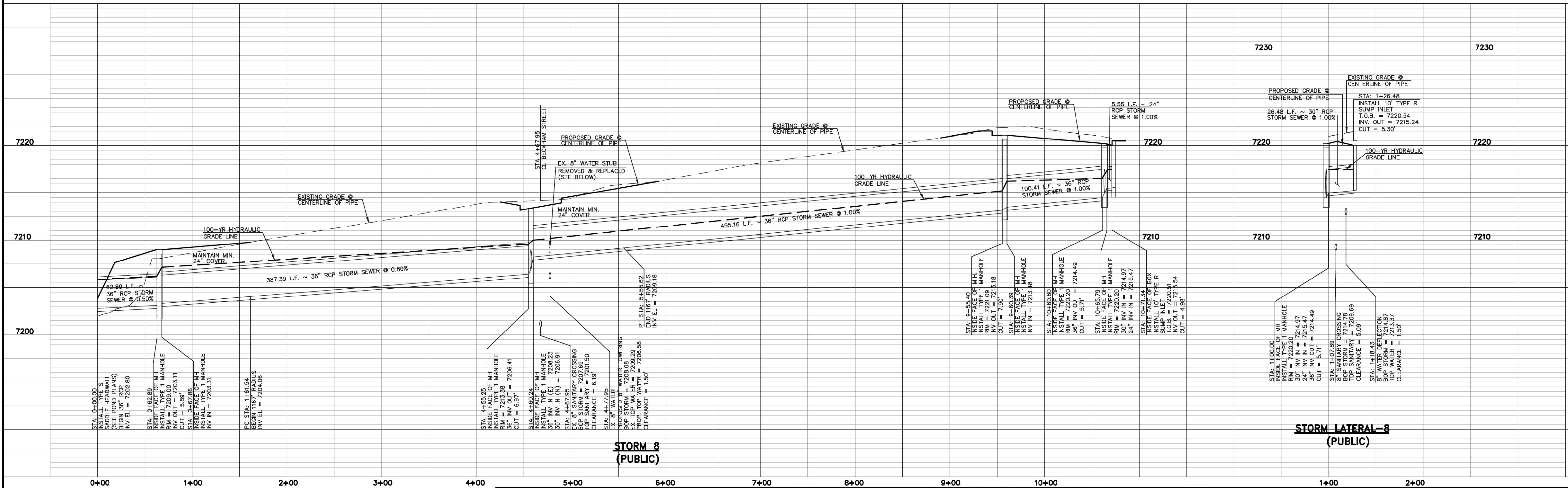
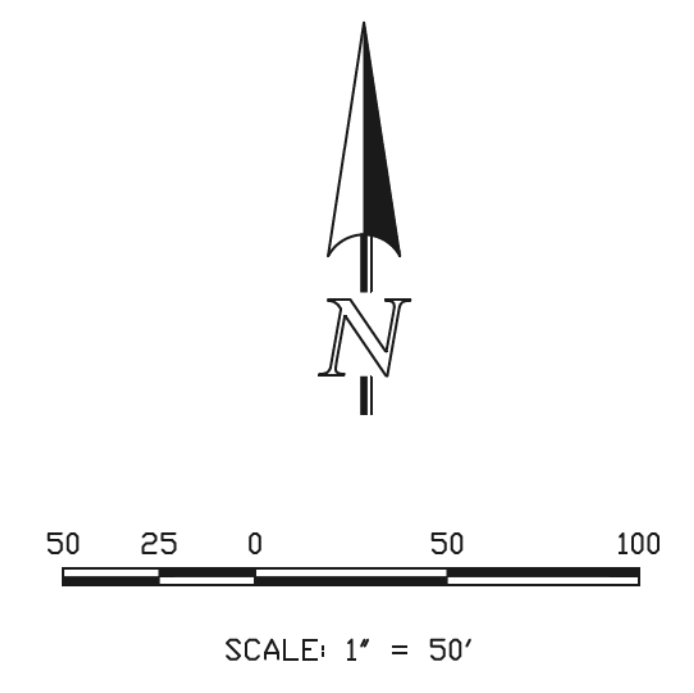


STORM LINE TABLE		
LINE	LENGTH	BEARING
L1	62.89'	S02°22'24"W
L2	93.69'	S71°07'24"E
L3	399.78'	N89°31'44"E
L4	100.41'	N03°30'00"W
L5	5.55'	N89°22'41"W
L6	26.48'	N71°27'12"E

STORM CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	293.71'	1167.00'	14°25'12"
C2	95.38'	1167.00'	4°40'59"

UTILITY NOTE:
 BASED ON RECENT UTILITY LOCATES ALONG NORTH SIDE OF STREET, CONTRACTOR TO CONFIRM EXACT LOCATIONS OF ANY EXISTING UTILITIES PRIOR TO EXCAVATION FOR STORM SEWER WITHIN THE RIGHT-OF-WAY OF LONDONDERRY DR.

STORM-8 & LATERAL-8 (PUBLIC)



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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	8-30-18

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

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

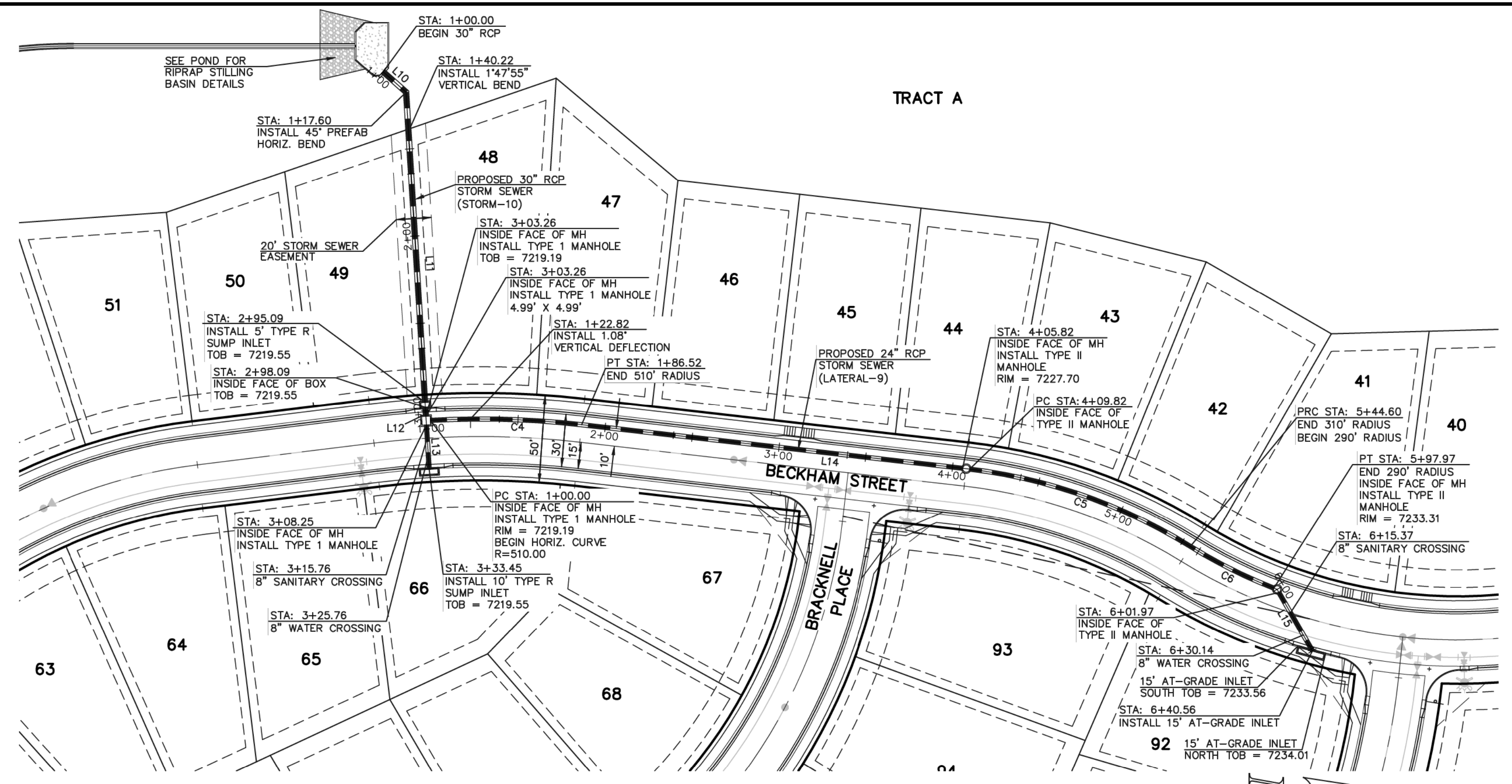
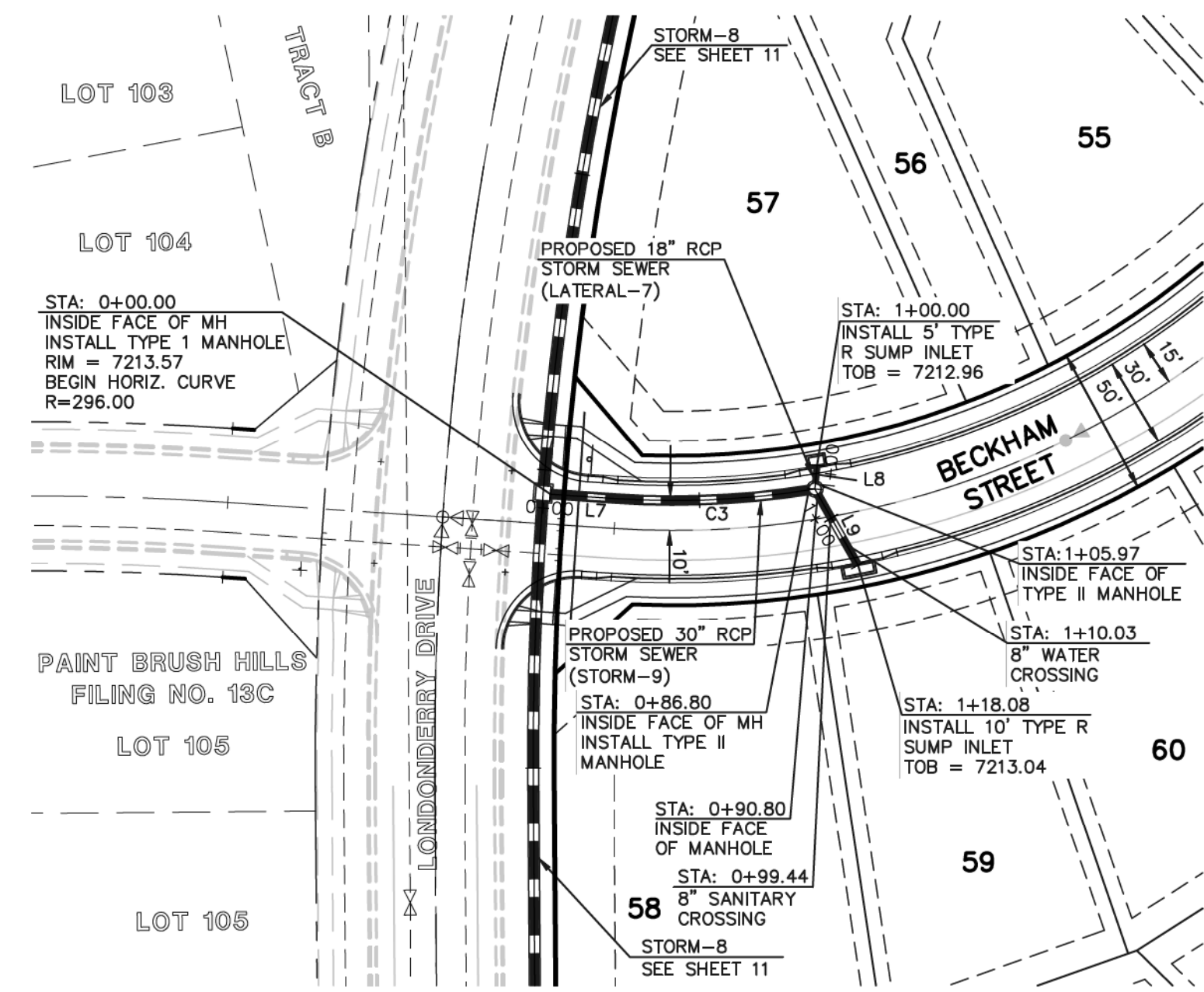
10/19/18 DATE



PAINT BRUSH HILLS FILING NO. 13E
 CONSTRUCTION PLANS
 STORM SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	7-20-18
DRAWN BY	ESO	(H) 1" = 50'	SHEET	11 OF 17
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50	

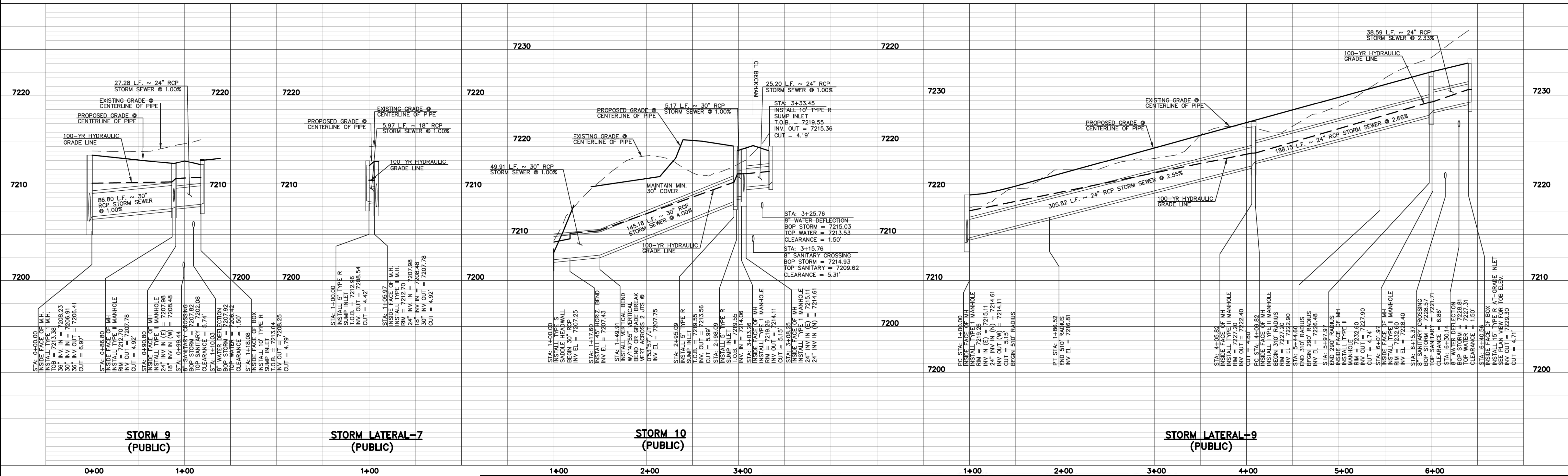
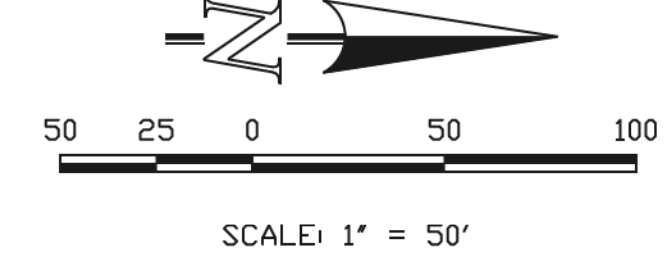
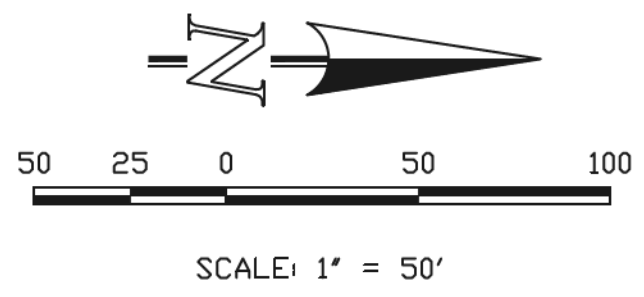
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LINE	LENGTH	BEARING
L7	22.07'	N03°50'00"E
L8	5.97'	N84°05'36"W
L9	27.28'	N60°19'23"E
L10	17.60'	N41°30'00"E
L11	173.16'	N86°30'00"E
L12	5.17'	N86°30'00"E
L13	25.20'	N86°30'00"E
L14	219.30'	N06°30'00"E
L15	38.59'	N60°10'23"E

CURVE	LENGTH	RADIUS	DELTA
C3	64.73'	290.00'	12°47'18"
C4	86.52'	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 (PUBLIC)



STORM 9 (PUBLIC)

STORM LATERAL-7 (PUBLIC)

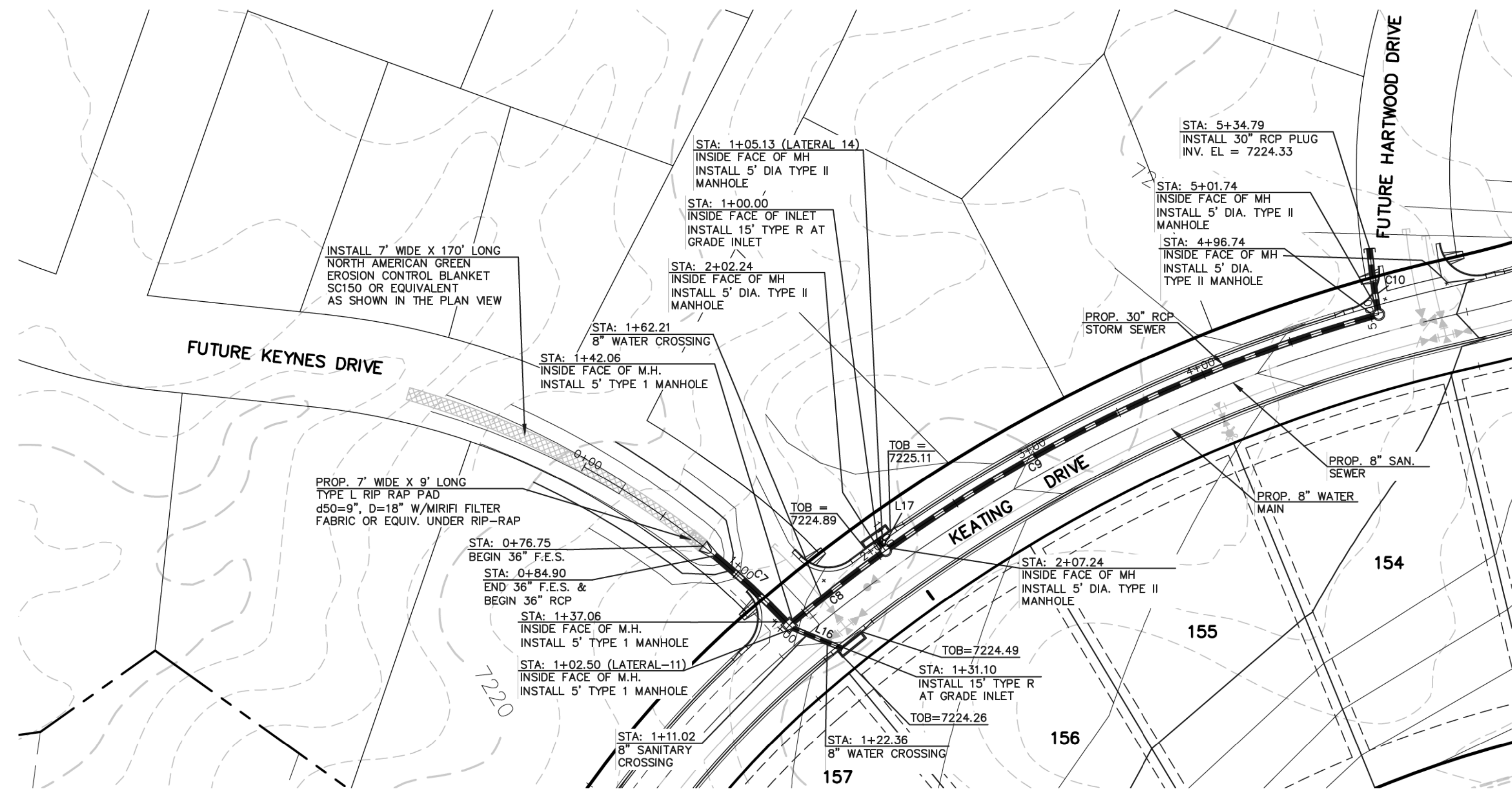
STORM 10 (PUBLIC)

STORM LATERAL-9 (PUBLIC)

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>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.</p>		<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>REVISED PER COUNTY COMMENTS</td> <td>8-30-18</td> </tr> <tr> <td>2</td> <td>REVISED PER COUNTY COMMENTS</td> <td>10-18-18</td> </tr> </tbody> </table>	NO.	REVISION	DATE	1	REVISED PER COUNTY COMMENTS	8-30-18	2	REVISED PER COUNTY COMMENTS	10-18-18	<p>REVIEW:</p> <p>PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WILGORTON, COLORADO P.E. #37155</p>	<p>10/19/18</p> <p>DATE</p>	<p>PAINT BRUSH HILLS FILING NO. 13E CONSTRUCTION PLANS STORM SEWER PLAN</p> <p>DESIGNED BY: ESO SCALE: DATE: 7-20-18</p> <p>DRAWN BY: ESO SCALE: (H) 1" = 50' SHEET 12 OF 17</p> <p>CHECKED BY: ESO SCALE: (V) 1" = N/A JOB NO.: 2053.50</p>
NO.	REVISION	DATE												
1	REVISED PER COUNTY COMMENTS	8-30-18												
2	REVISED PER COUNTY COMMENTS	10-18-18												

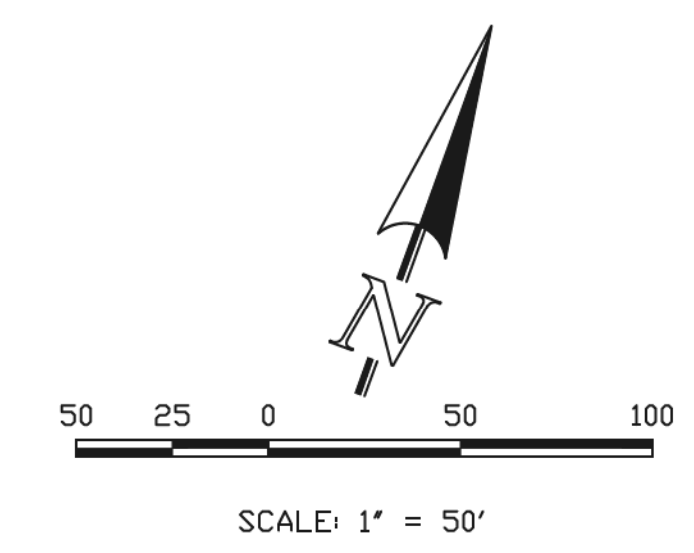


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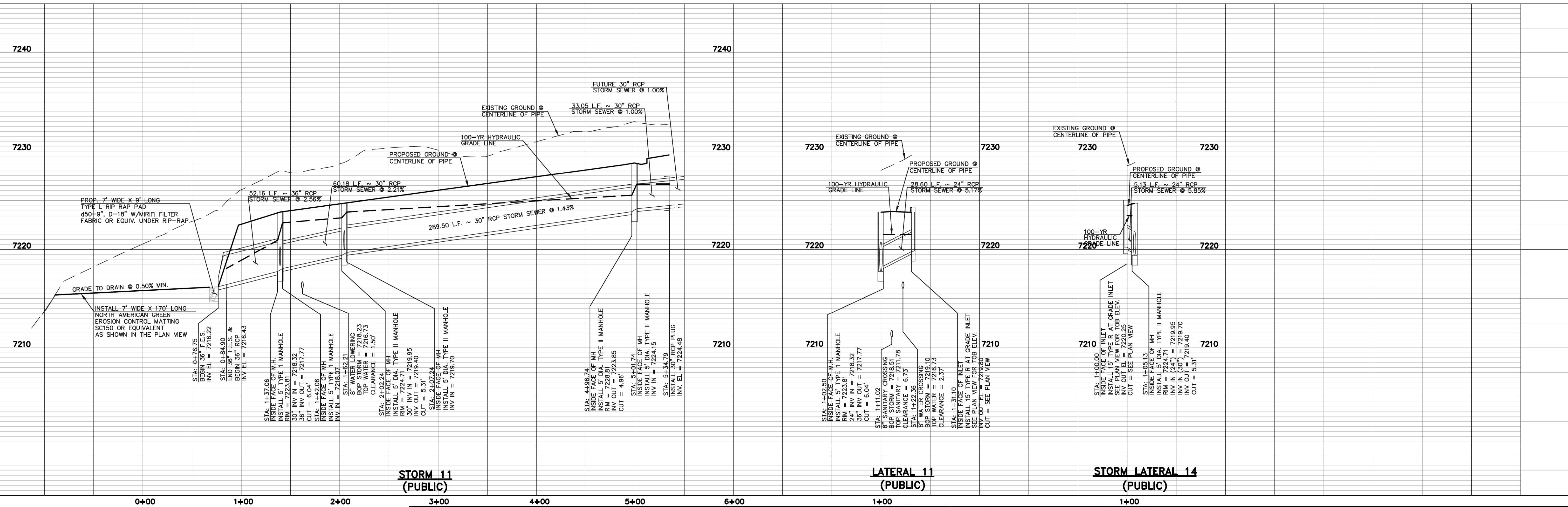


STORM LINE TABLE		
LINE	LENGTH	BEARING
L16	28.60'	S87°41'10"E
L17	5.13'	N55°37'24"W

STORM CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C7	52.16'	452.00'	06°36'44"
C8	60.18'	841.00'	04°06'00"
C9	289.50'	841.00'	19°43'22"
C10	33.05'	373.00'	05°04'35"



**STORM-11 & STORM LATERAL 11 & LATERAL 14
(PUBLIC)**



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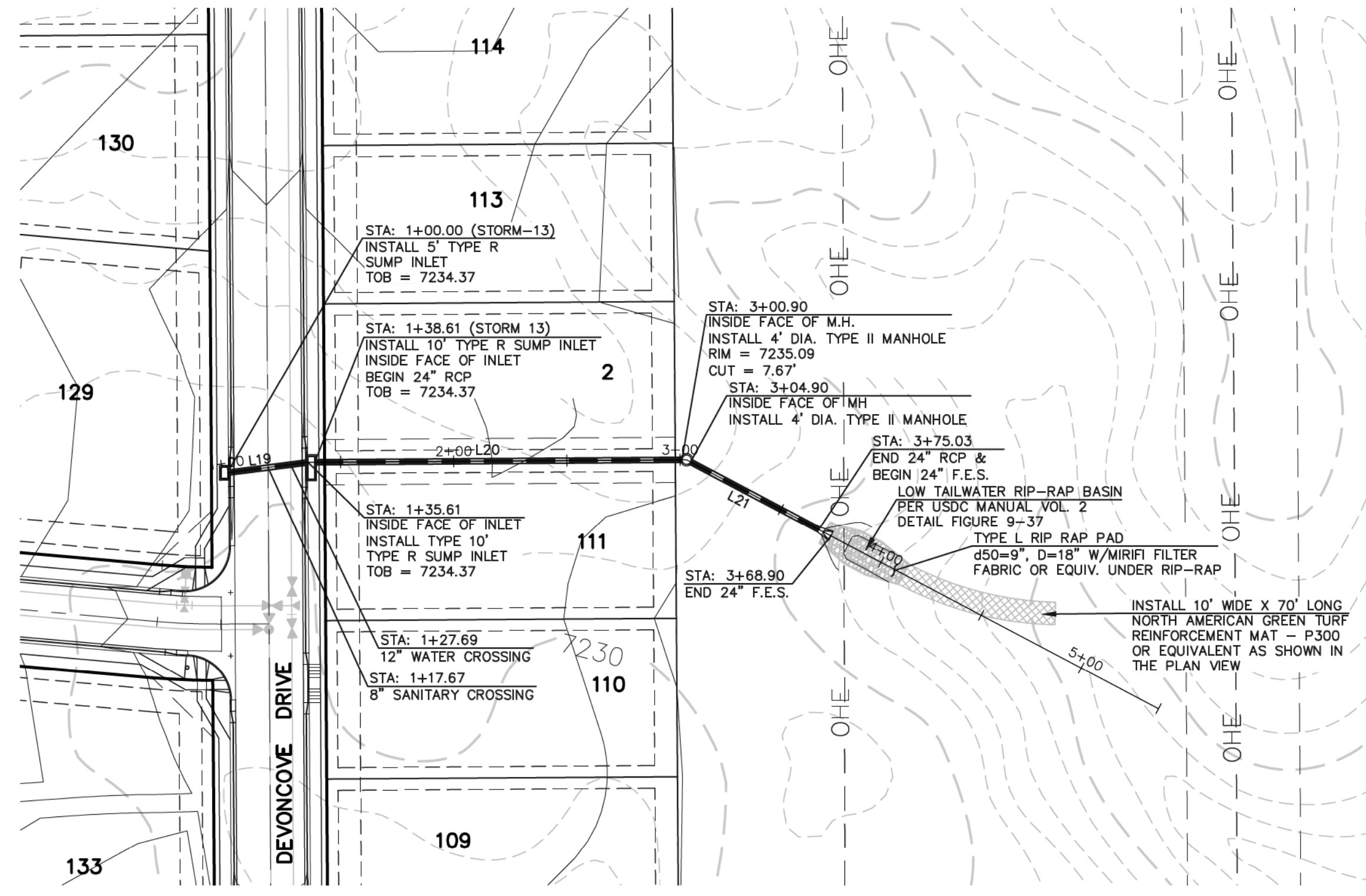
MARC A. WHARTON, COLORADO P.E. #37155 DATE: 10/19/18

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

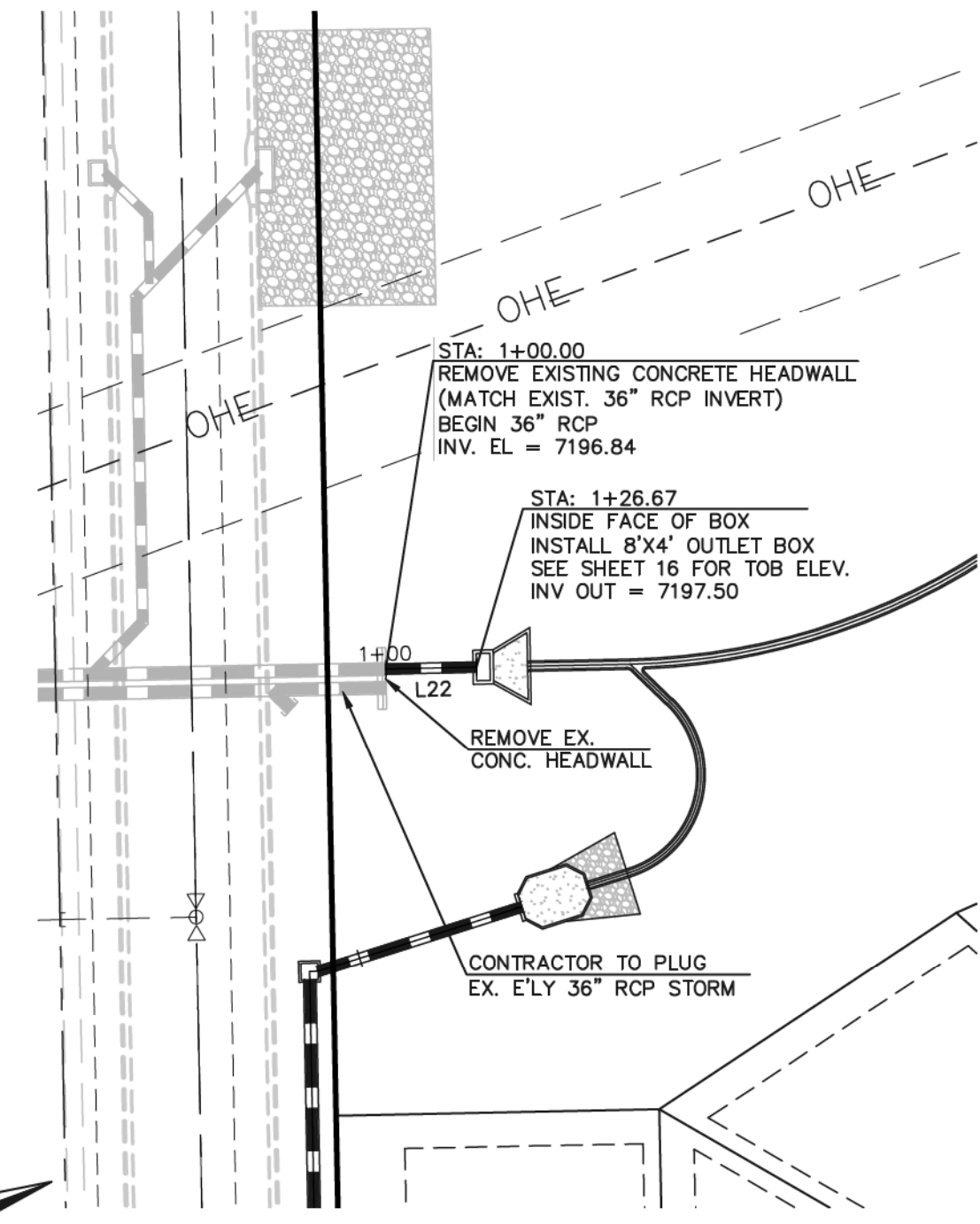
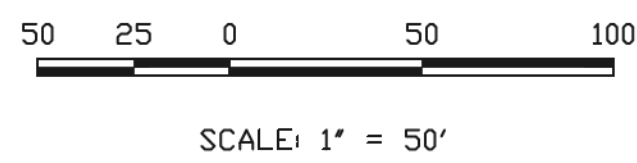
PAINT BRUSH HILLS FILING NO. 13E CONSTRUCTION PLANS STORM SEWER PLAN			
DESIGNED BY	ESO	SCALE	DATE 8-10-12
DRAWN BY	ESO	(H) 1" = 50'	SHEET 13 OF 17
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

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LINE	LENGTH	BEARING
L19	35.61'	N82°36'44"E
L20	162.27'	N89°37'00"E
L21	64.00'	S62°10'18"E
L22	26.67'	N18°52'36"E



**STORM-13 & STORM LATERAL 13
(PUBLIC)**



STORM LATERAL 12

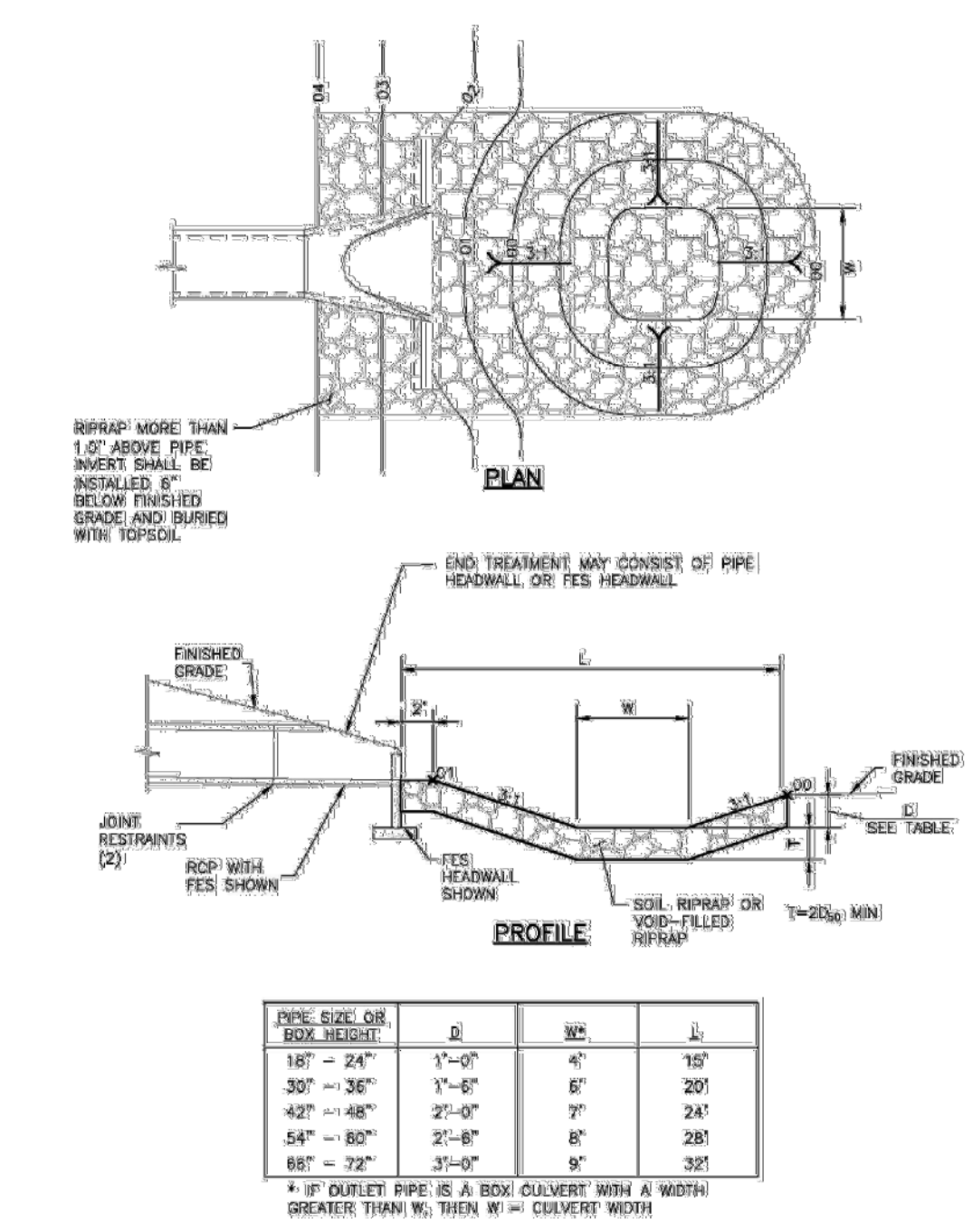
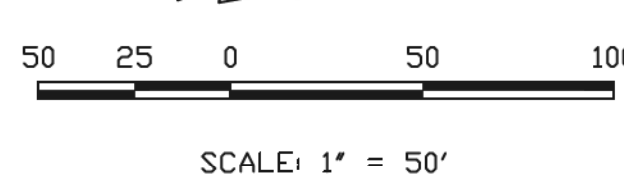
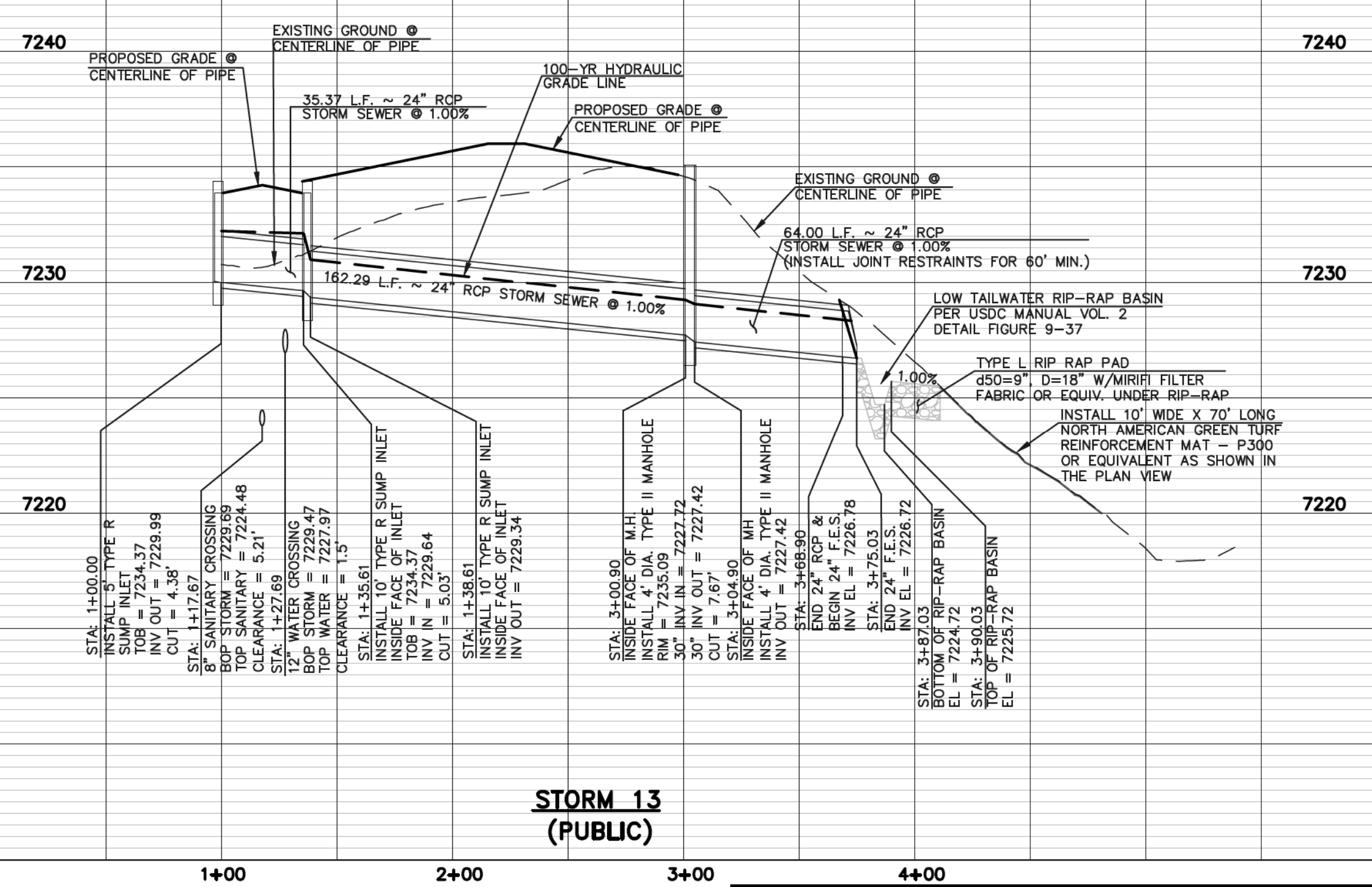
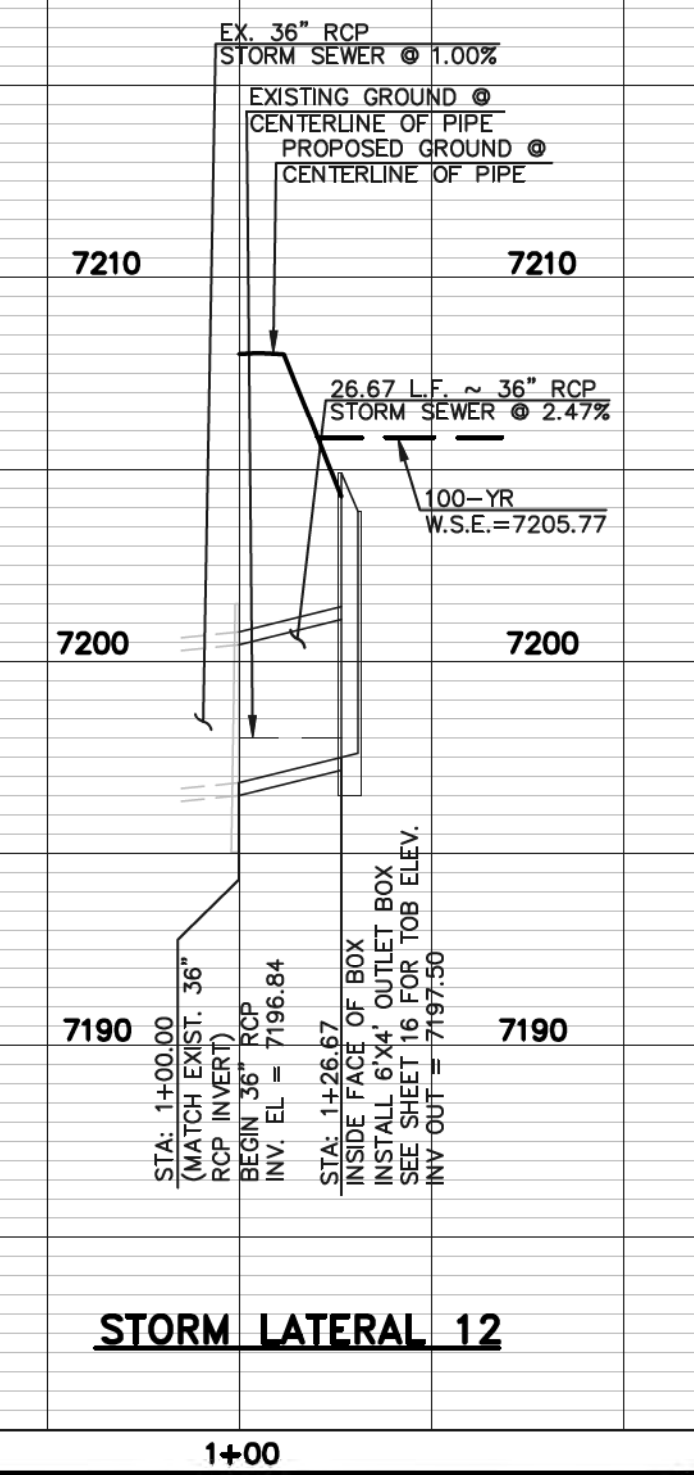


Figure 9-37. Low tailwater riprap basin



**STORM 13
(PUBLIC)**



STORM LATERAL 12

48 HOURS BEFORE YOU DIG,
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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-26-18
2	REVISED PER COUNTY COMMENTS	10-18-18

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

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

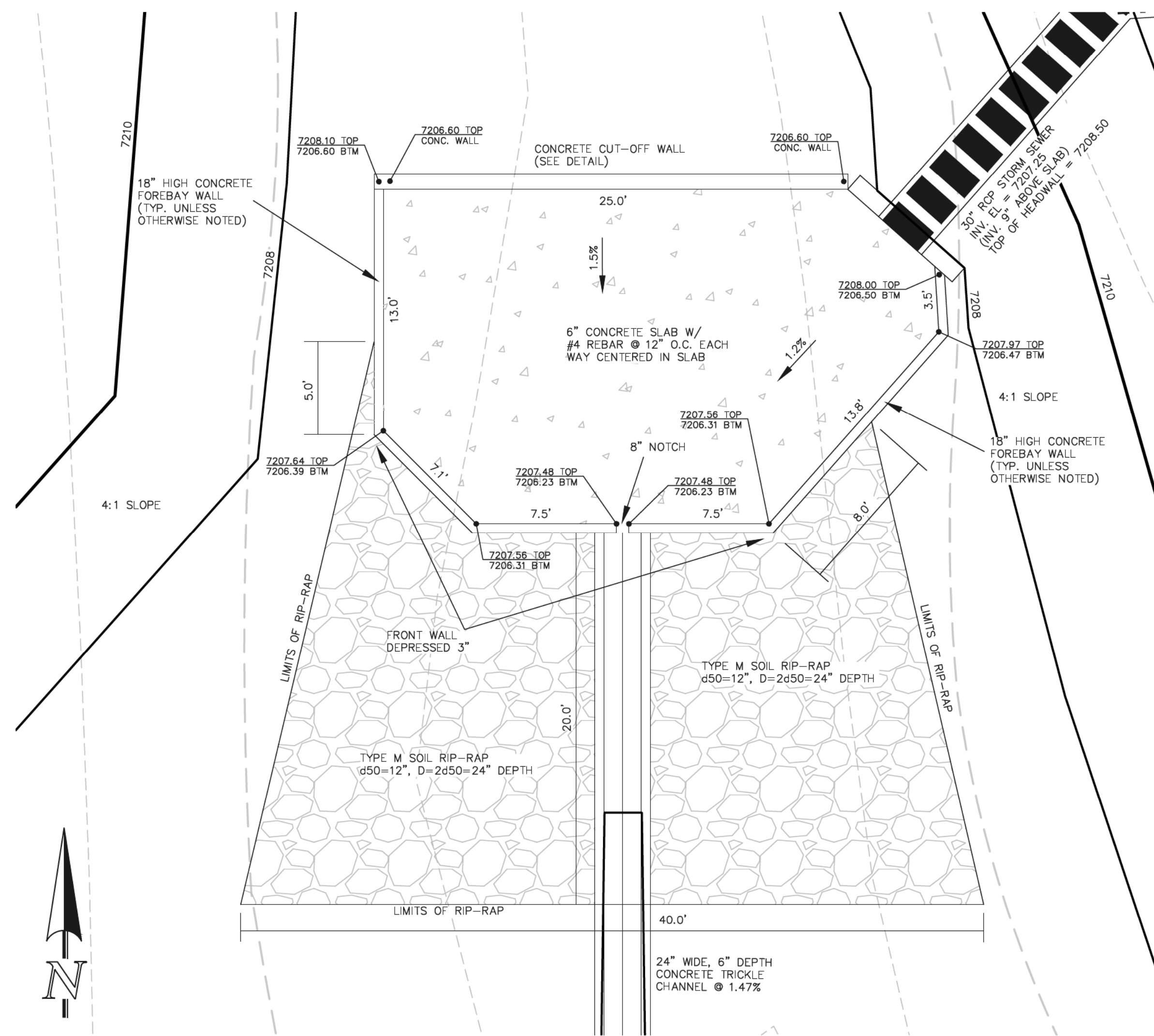
10/19/18 DATE



PAINT BRUSH HILLS FILING NO. 13E
CONSTRUCTION PLANS
STORM SEWER PLAN

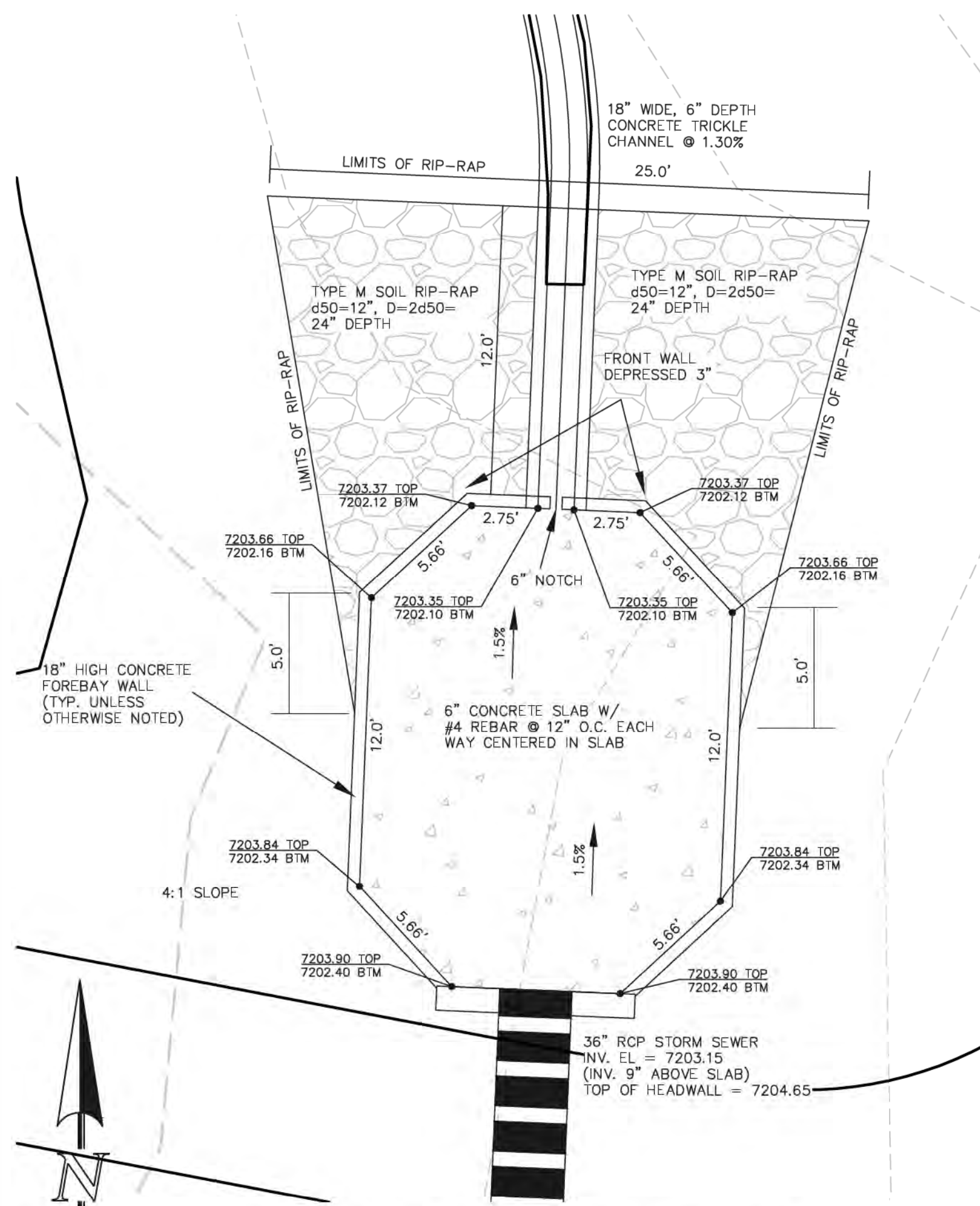
DESIGNED BY	ESO	SCALE	DATE	8-10-12
DRAWN BY	ESO	(H) 1" = 50'	SHEET 14 OF 17	
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50	

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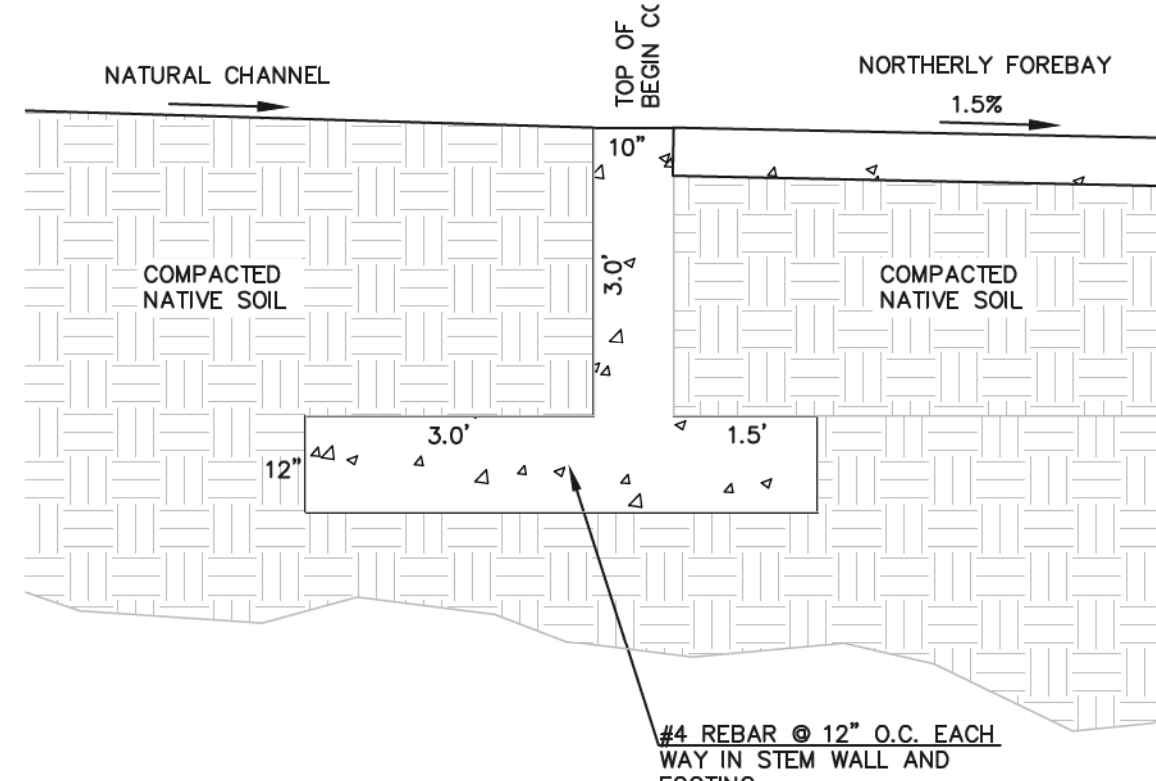
NORTHERLY CONCRETE FOREBAY

SCALE: 1" = 5'



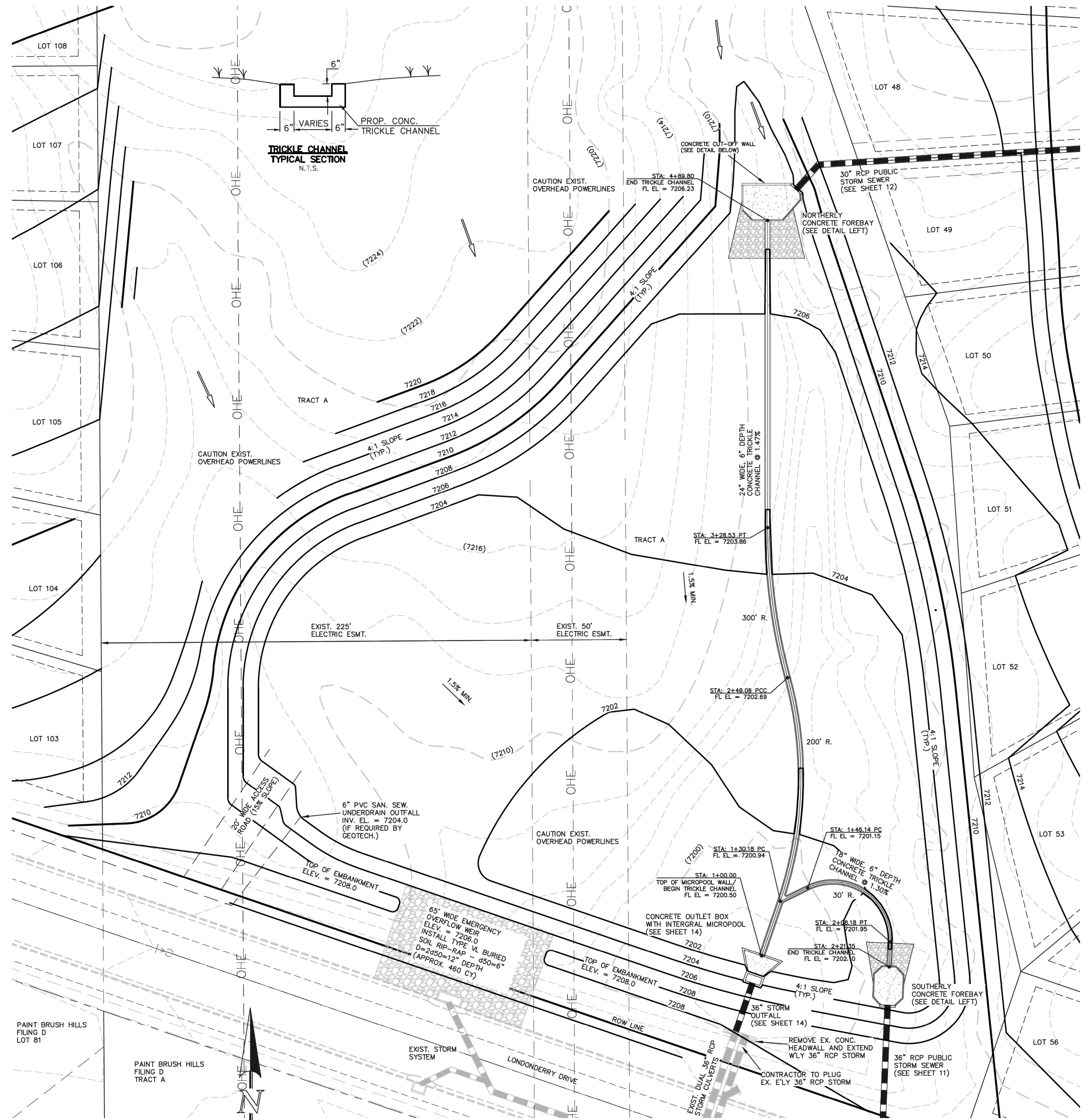
SOUTHERLY CONCRETE FOREBAY

SCALE: 1" = 5'



CONCRETE CUT-OFF WALL

SCALE: 1" = 2'



DETENTION FACILITY D

SCALE: 1" = 30'

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

DATE: 10/19/18

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Colorado Springs, Colorado 80903

(719) 785-0790
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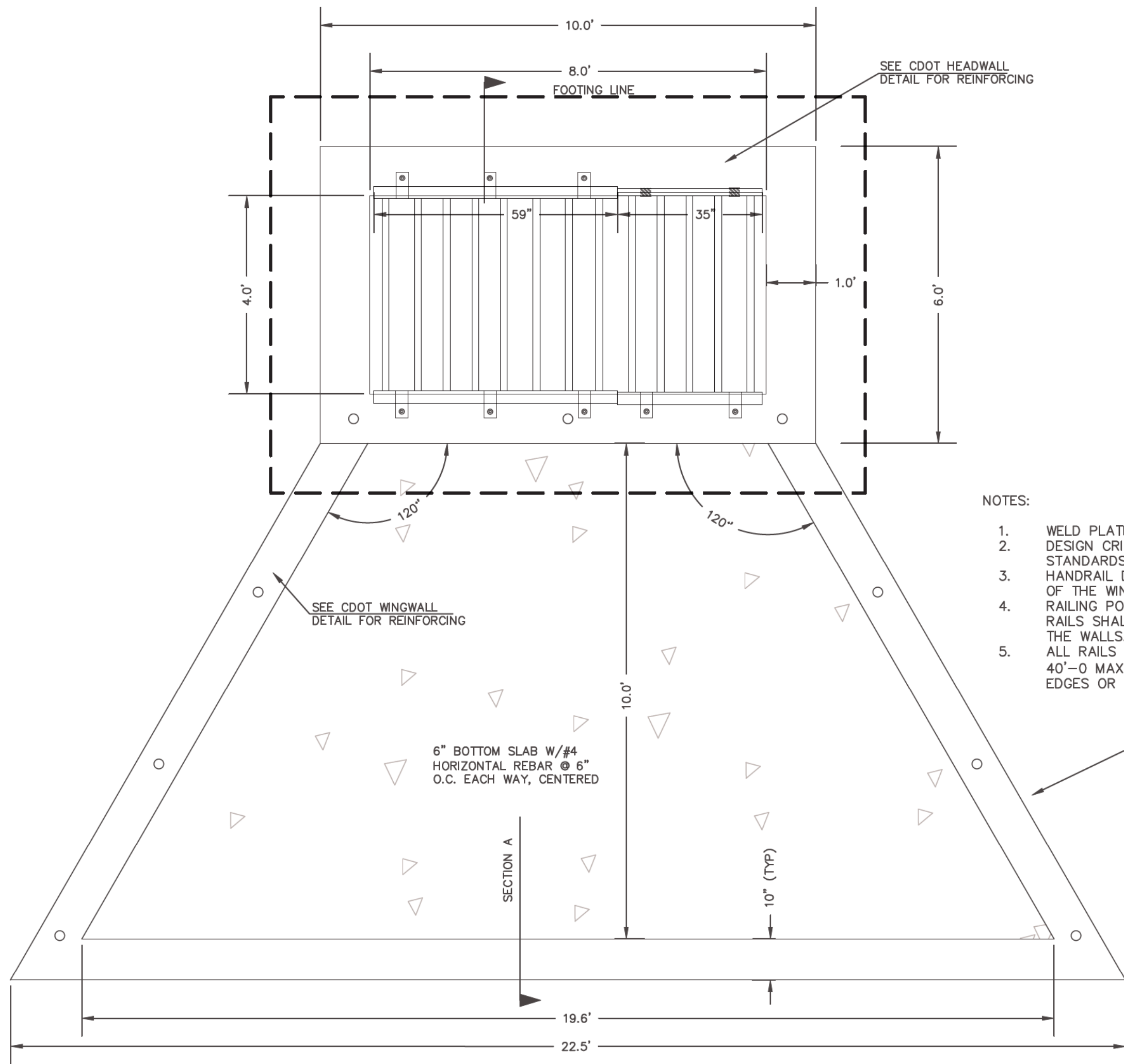
PAINT BRUSH HILLS FILING 13A
CONSTRUCTION PLANS
DETENTION FACILITY D
POND PLAN

DESIGNED BY: MAW
DRAWN BY: MAW
CHECKED BY: (V)

SCALE: (H) 1" = 30'
(V) 1" = N/A

DATE: 7-12-18
SHEET 15 OF 17
JOB NO. 2053.50

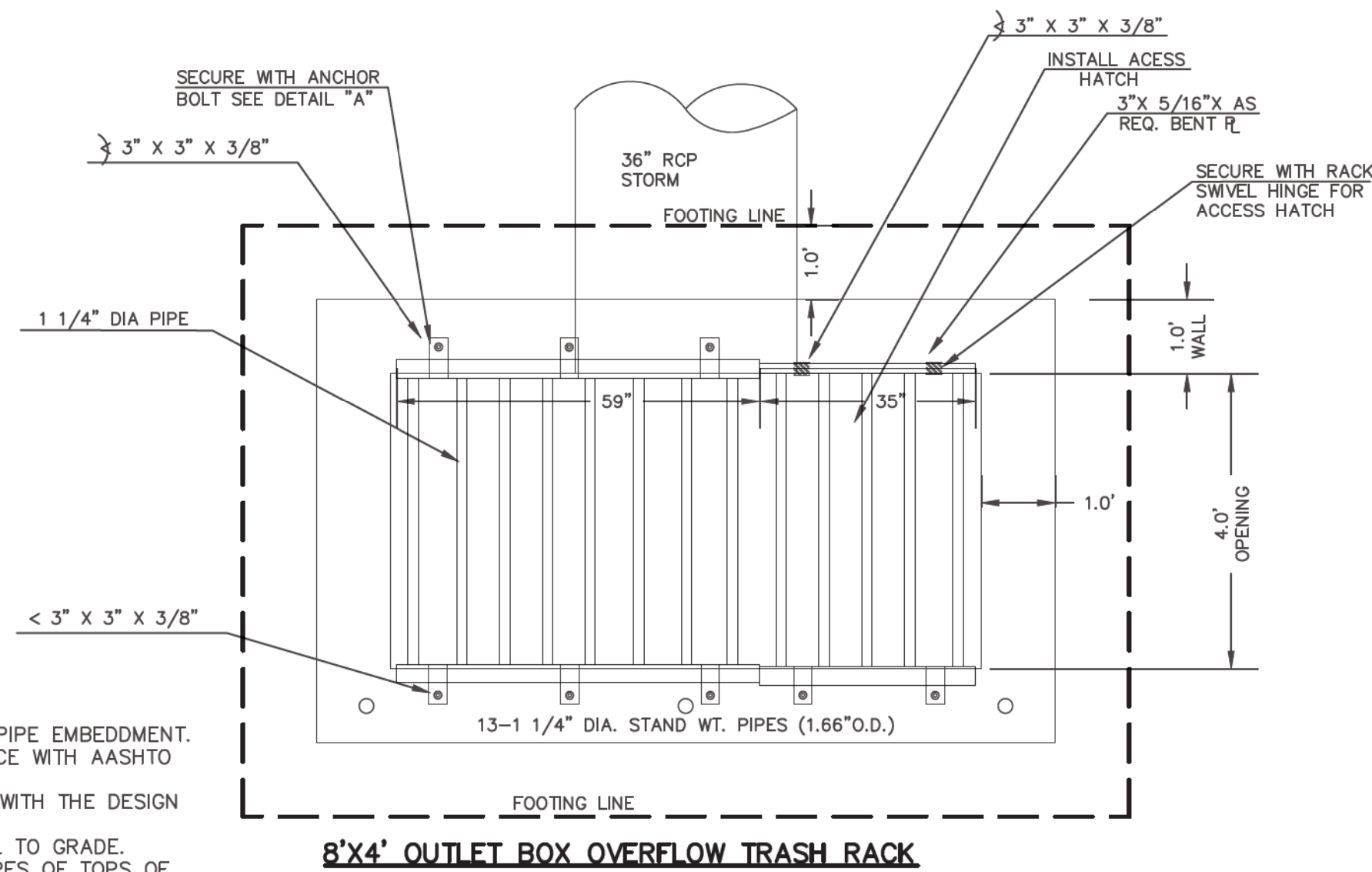
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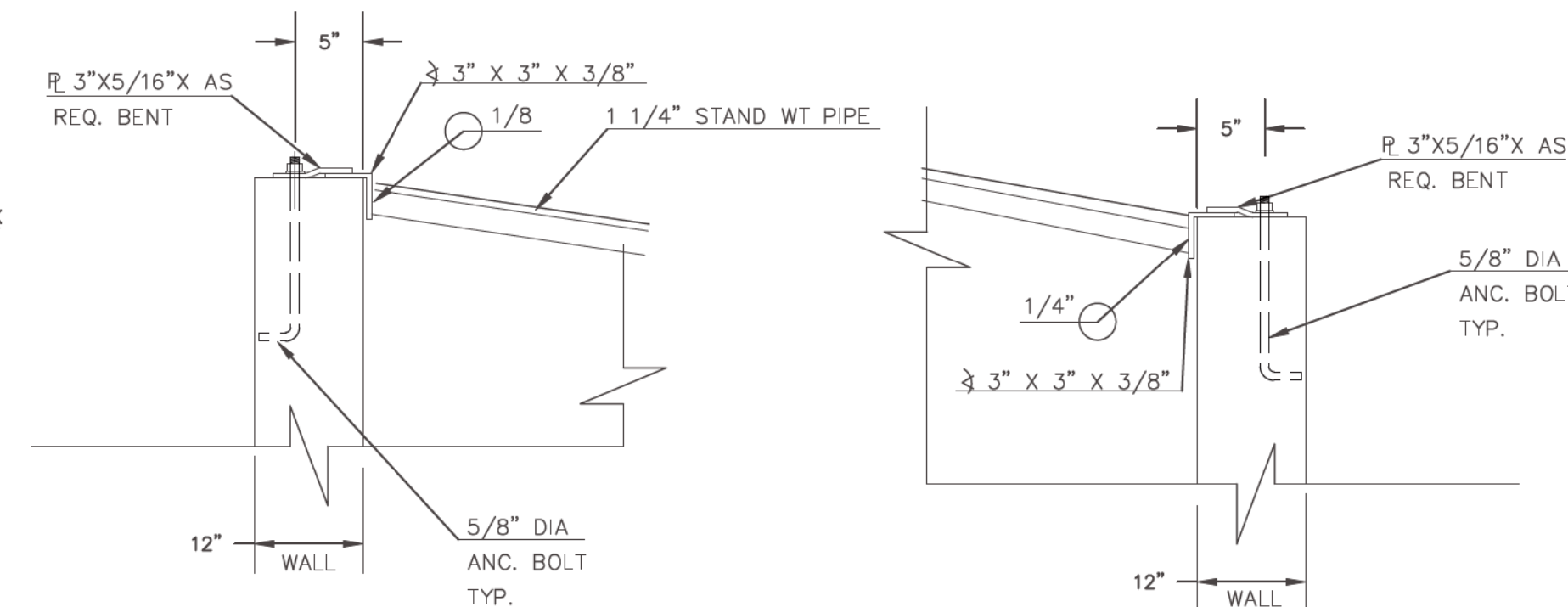
CONCRETE MICROPOOL
SCALE 1" = 2"

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.

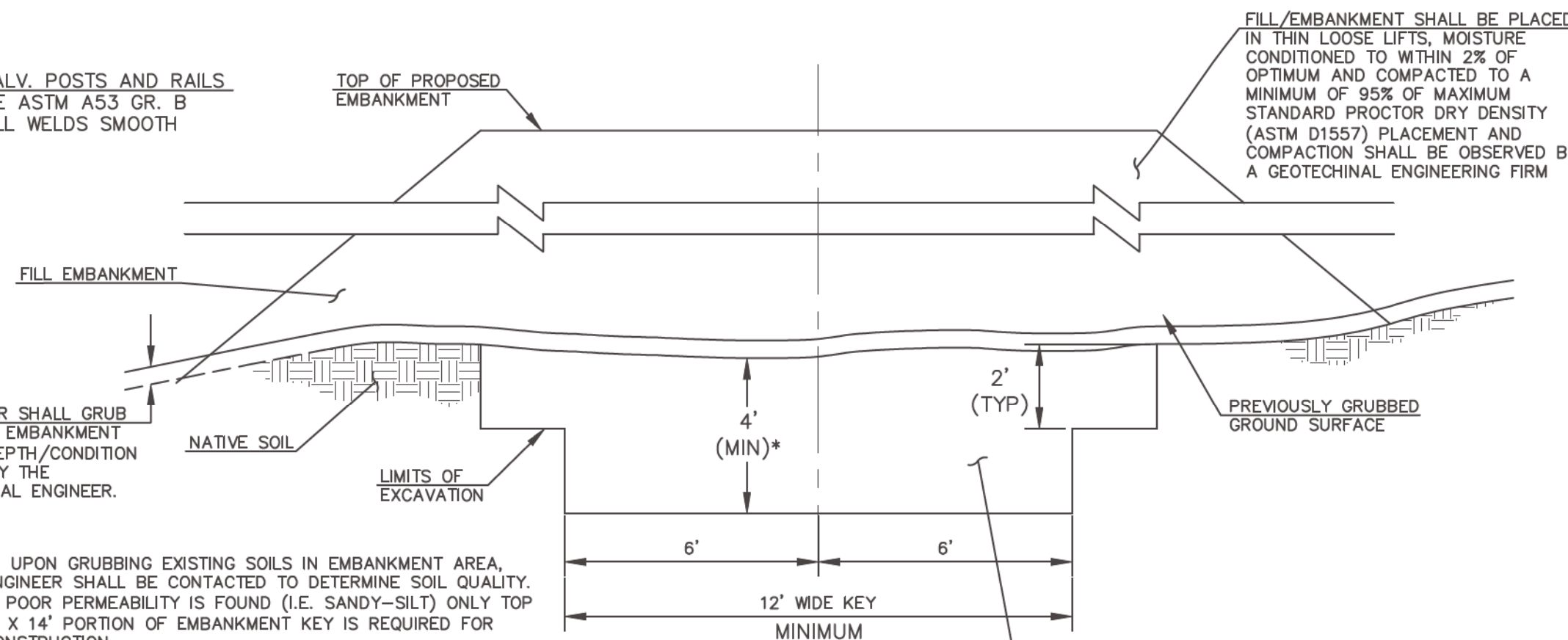


8'X4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2"

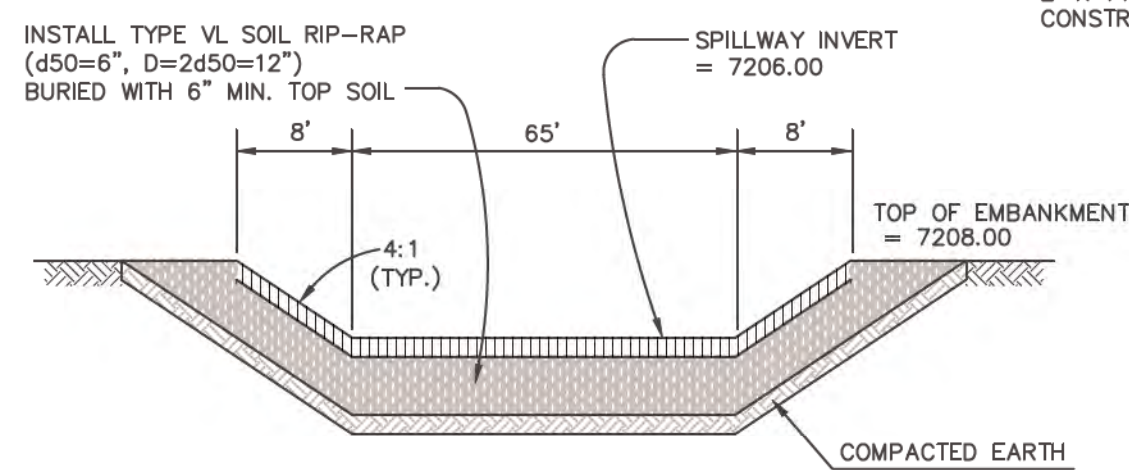


MICROPOOL RAILING

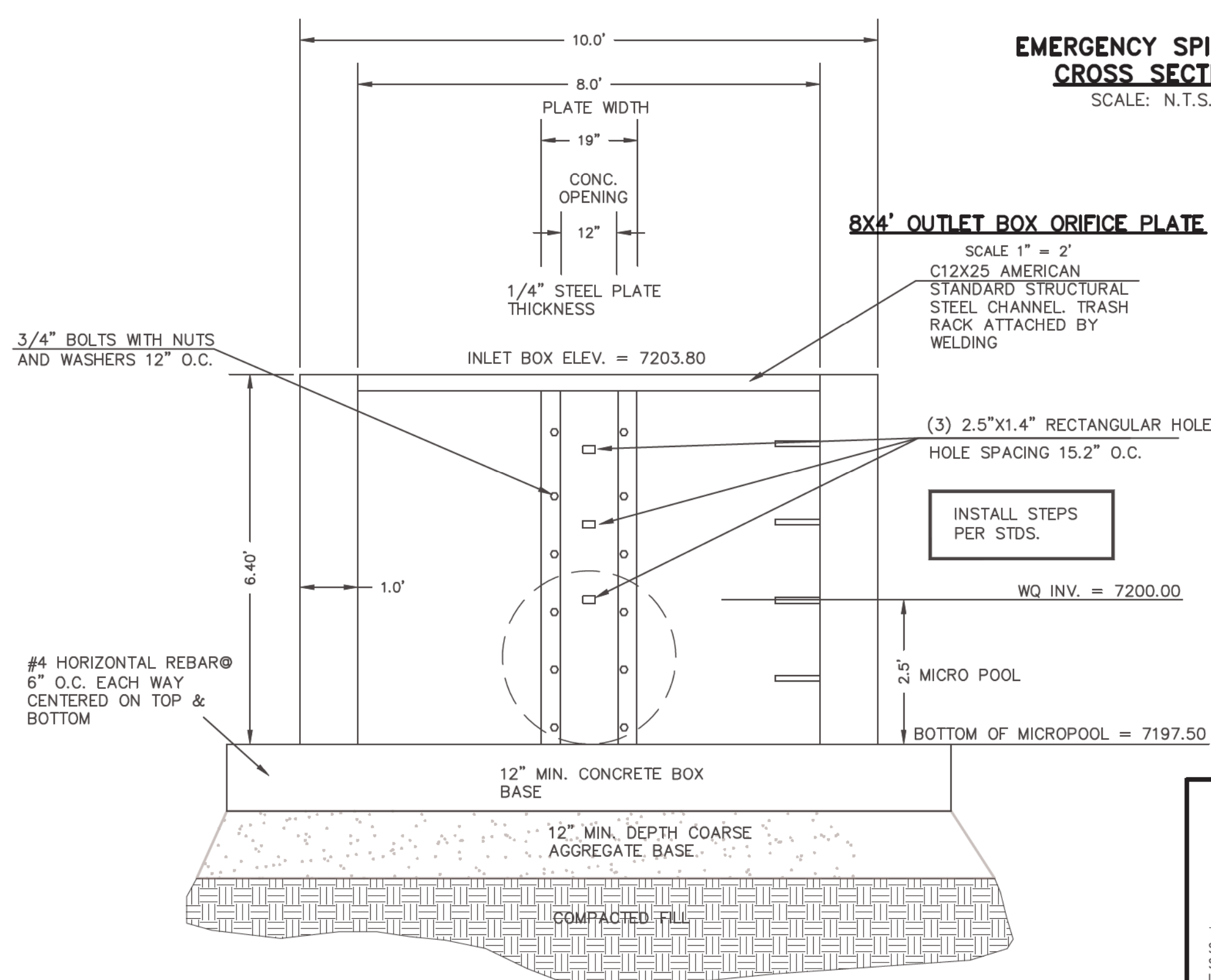
OUTLET BOX RAILING
N.T.S.



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



EMERGENCY SPILLWAY CROSS SECTION
SCALE: N.T.S.



8'X4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2"

(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

ORIFICE PLATE NOTES:

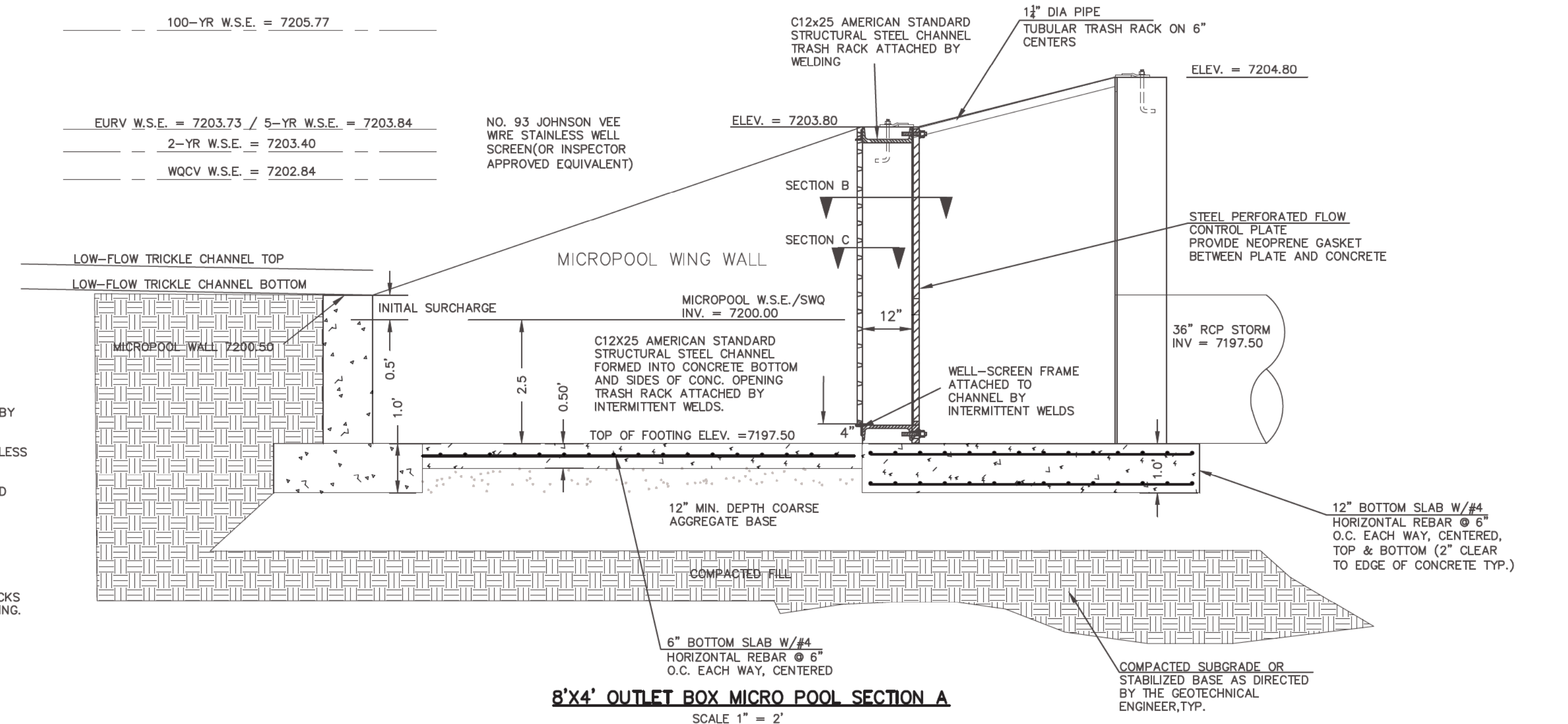
1. INSTALL HOLES AS SHOWN ON DETAIL TO RIGHT.
2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

EURV AND WOCV TRASH RACKS:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK

OVERFLOW TRASH RACKS:

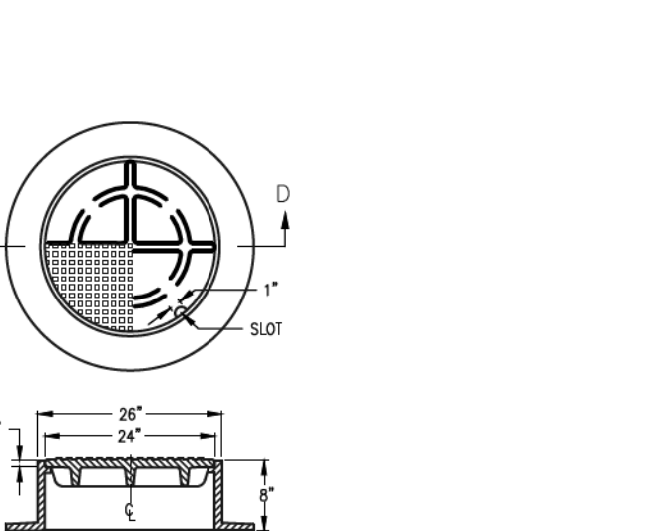
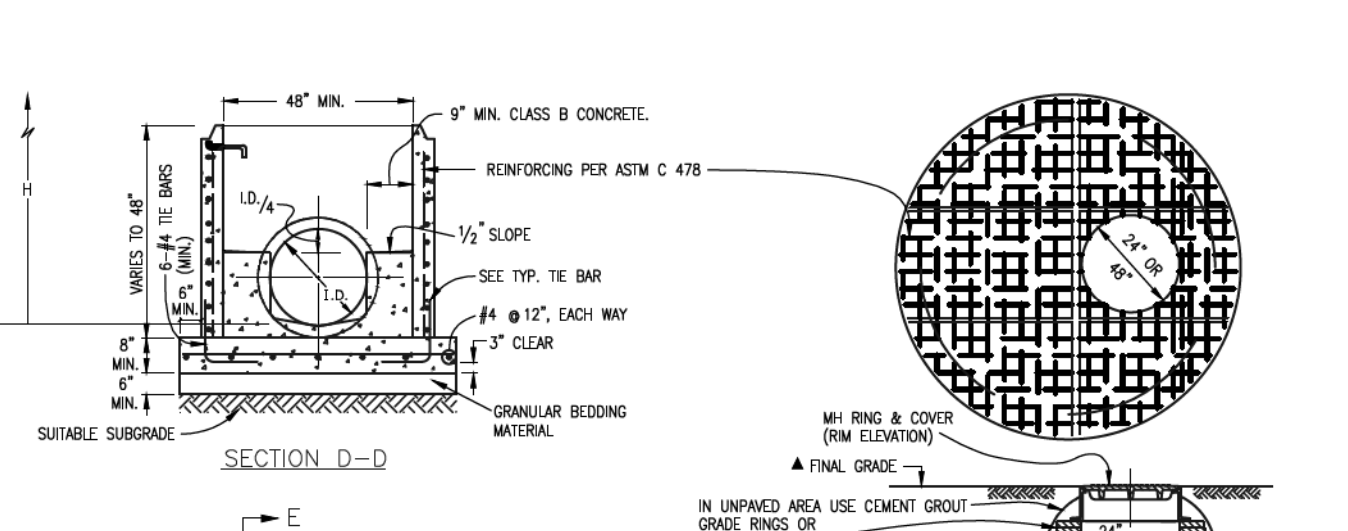
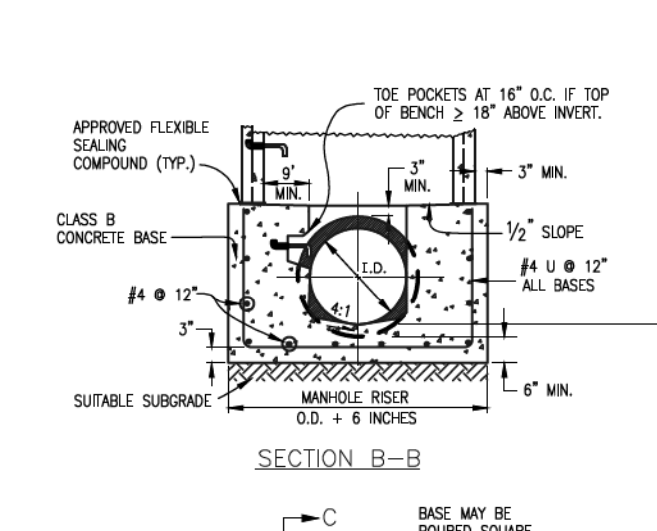
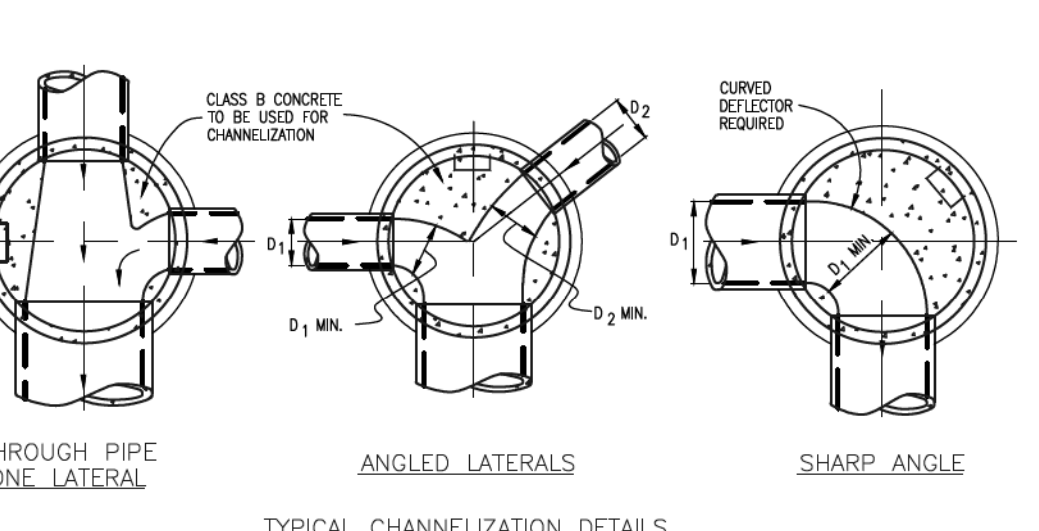
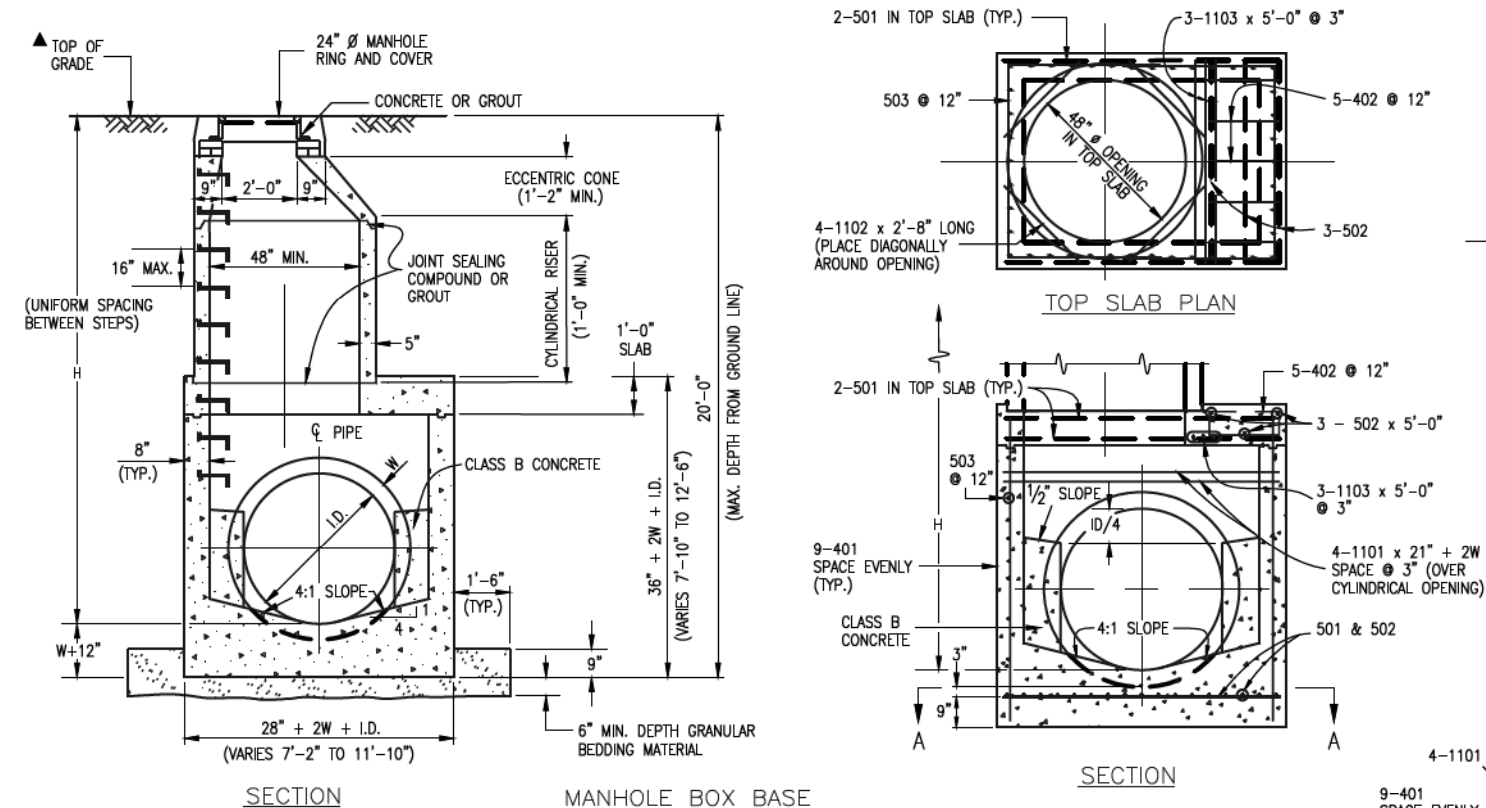
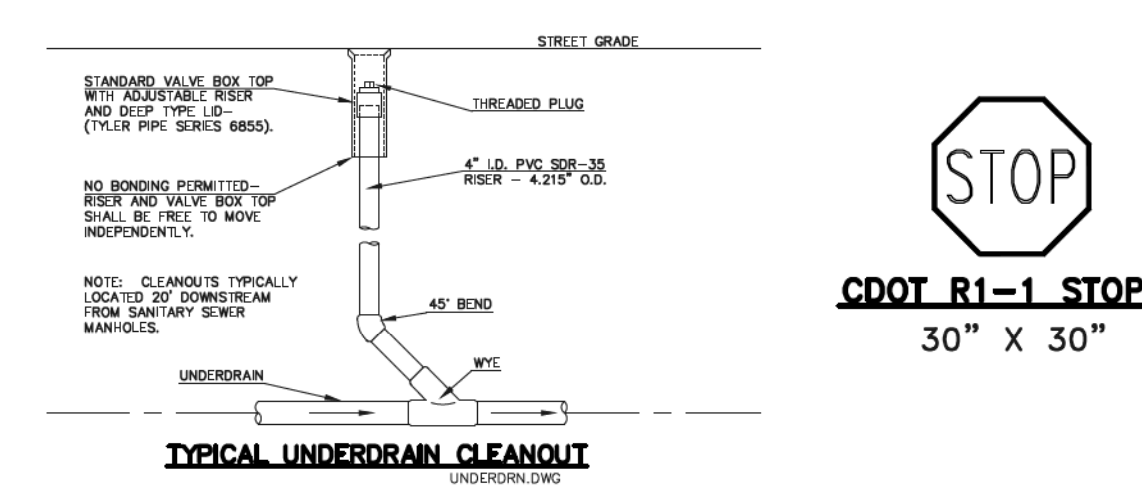
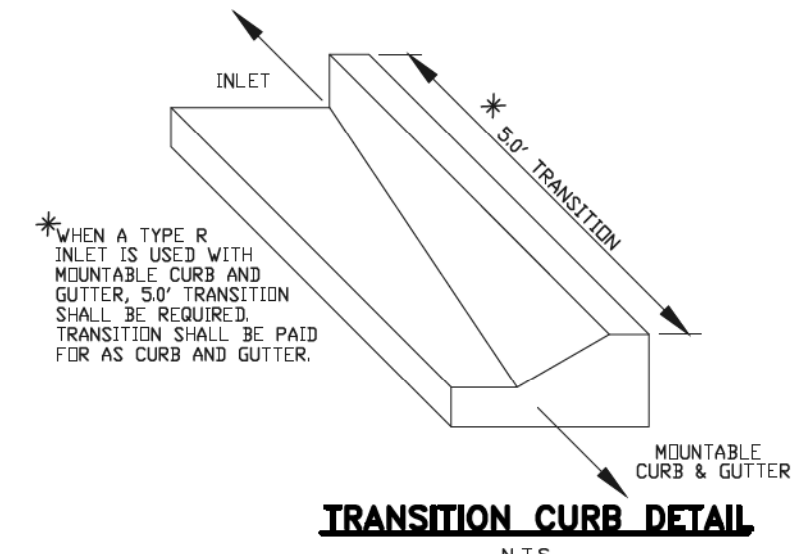
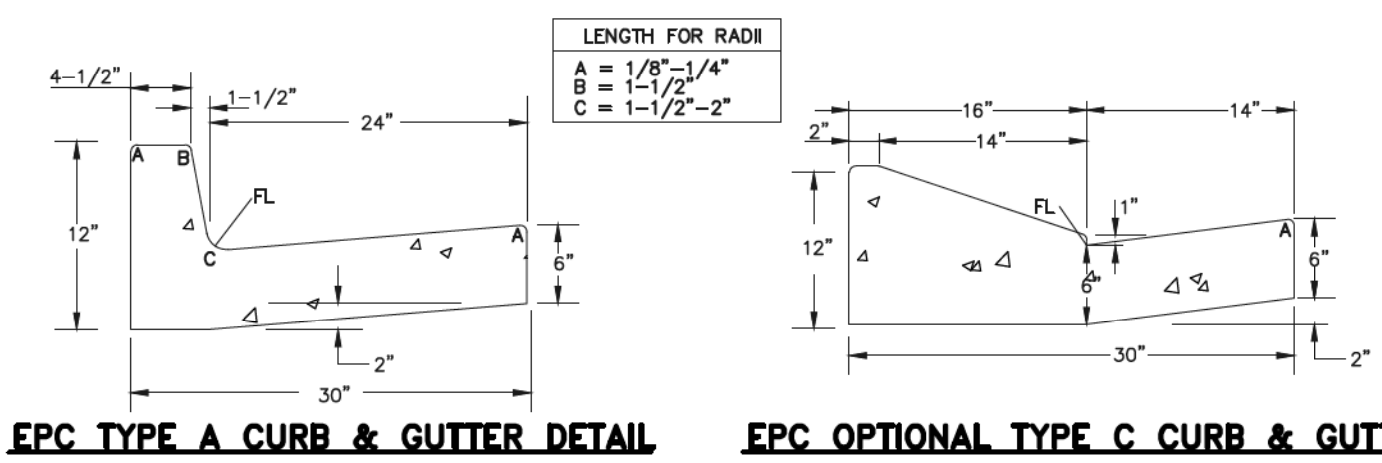
1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. TRASH RACKS 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.



8'X4' OUTLET BOX MICRO POOL SECTION A
SCALE 1" = 2"

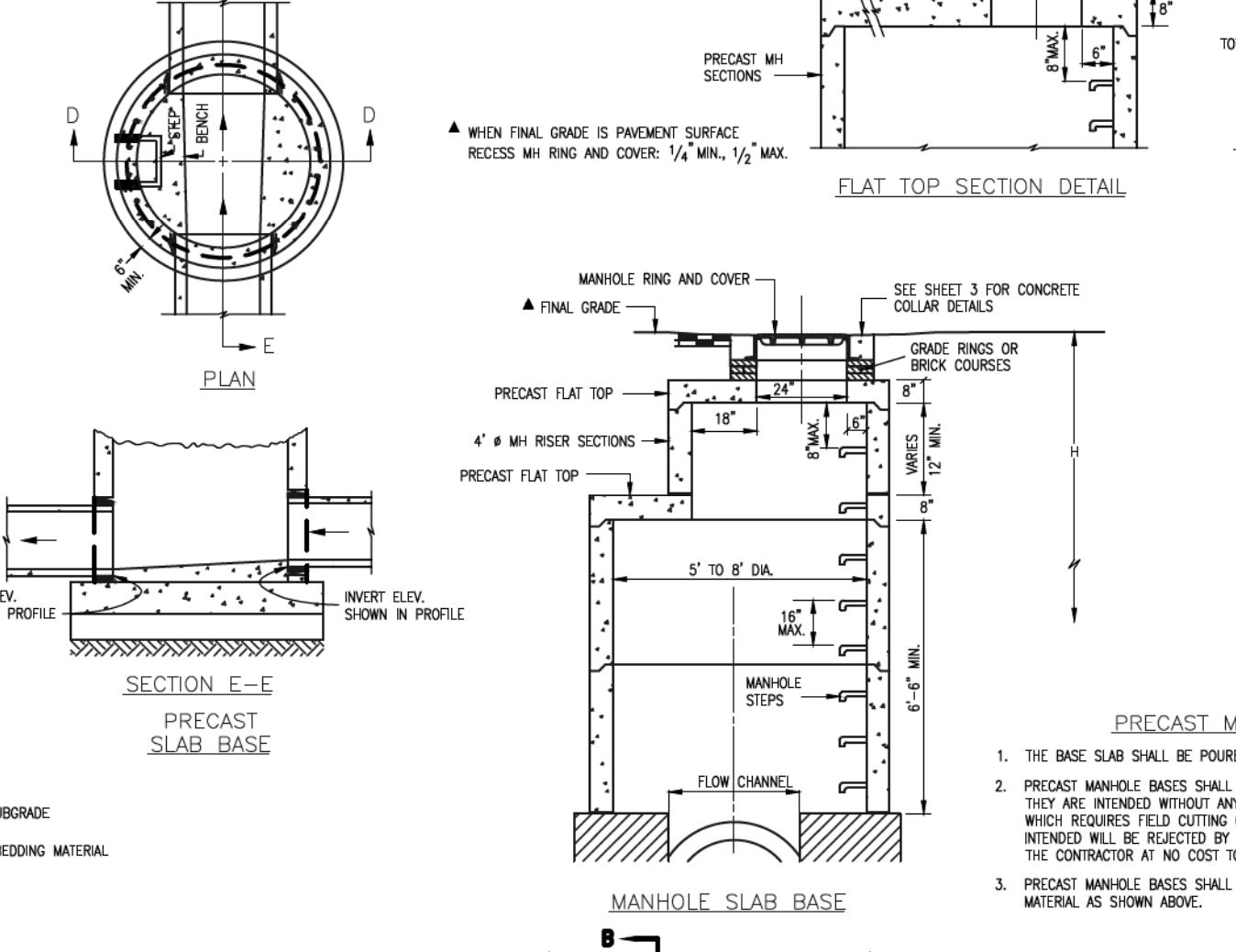
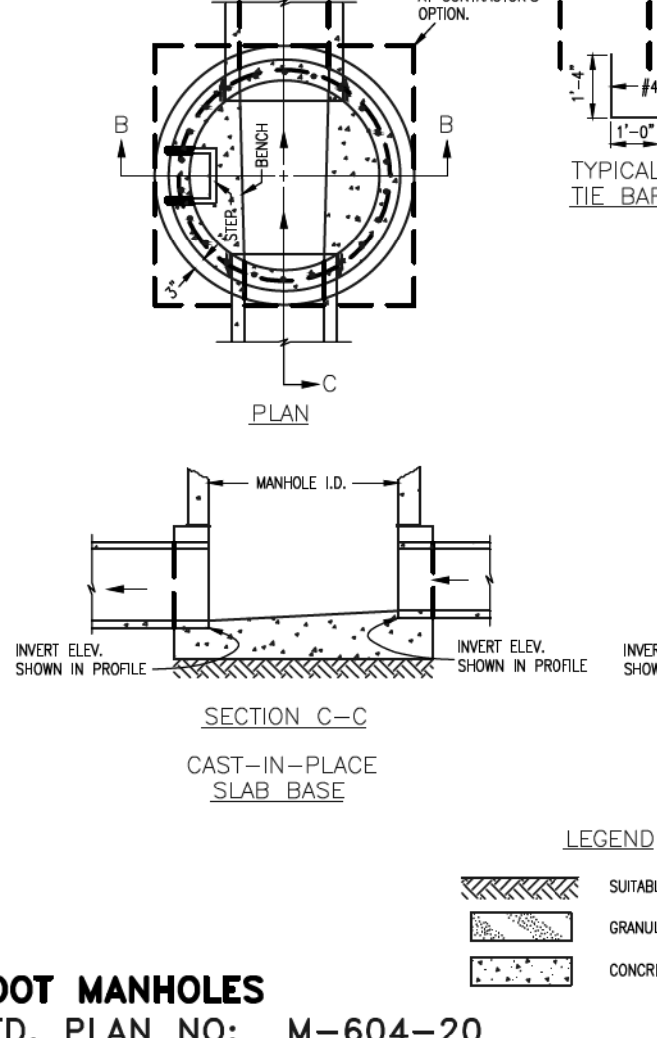
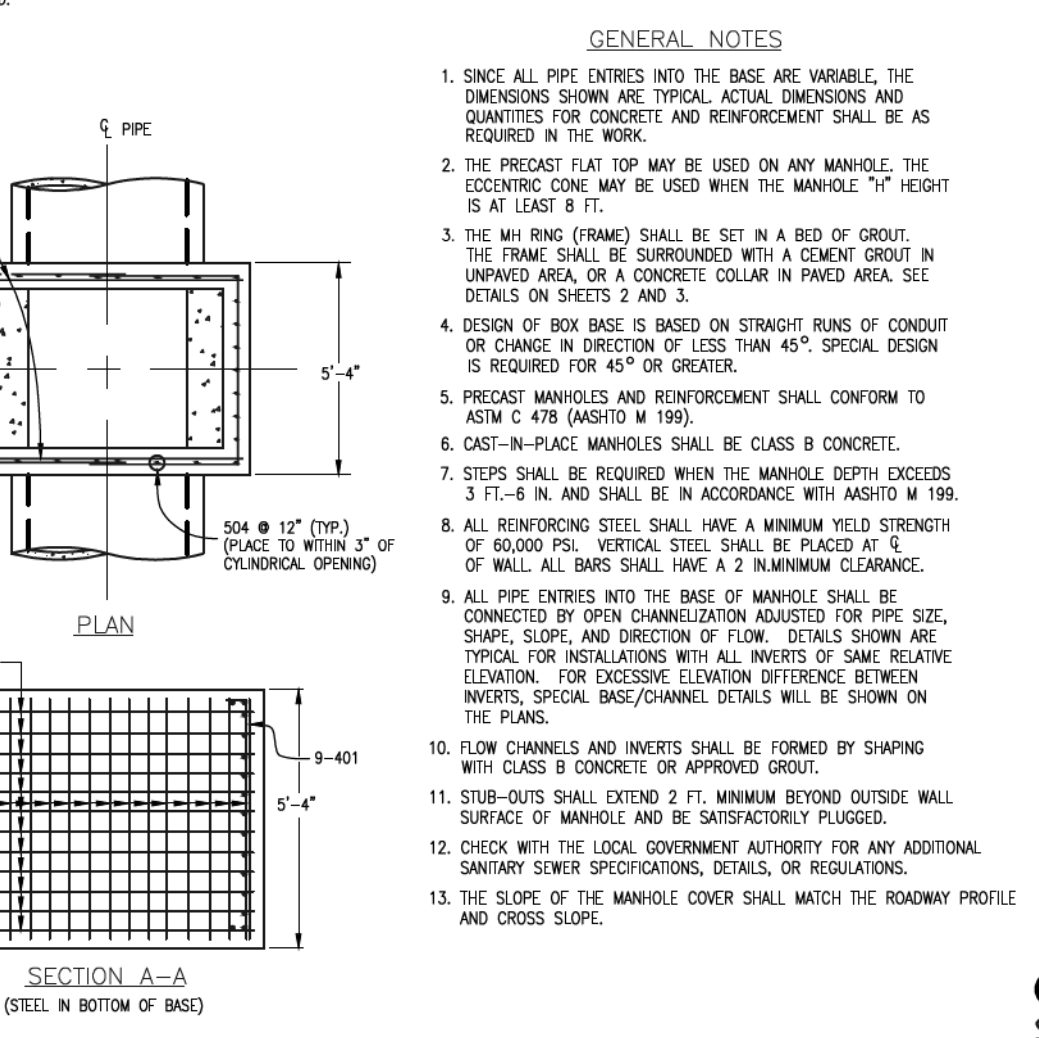
<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING 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.</p>	<p>NO. REVISION</p> <table border="1"> <tr> <td>1</td> <td>REVISED PER COUNTY COMMENTS</td> <td>9-21-18</td> </tr> <tr> <td>2</td> <td>REVISED PER COUNTY COMMENTS</td> <td>10-18-18</td> </tr> </table>	1	REVISED PER COUNTY COMMENTS	9-21-18	2	REVISED PER COUNTY COMMENTS	10-18-18	<p>DATE</p> <p>10/19/18</p>	<p>REVIEW:</p> <p>PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WORTON, COLORADO P.E. #37155</p>	<p>PAINT BRUSH HILLS FILING 13A</p> <p>CONSTRUCTION PLANS</p> <p>DETENTION FACILITY D</p> <p>OUTLET BOX DETAILS</p> <p>DESIGNED BY: MAW DRAWN BY: MAW CHECKED BY: (V)</p> <p>SCALE: (H) 1" = N/A (V) 1" = N/A</p> <p>DATE: 7-12-18 SHEET 16 OF 17 JOB NO. 2053.50</p>	<p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719) 785-0790 (719) 785-0799 (Fax)</p>
	1	REVISED PER COUNTY COMMENTS	9-21-18								
2	REVISED PER COUNTY COMMENTS	10-18-18									

N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM CD\205350-FOND DETAIL-SHEET 16.dwg, 10/18/2018 11:39:02 AM, 1:1



QUANTITIES FOR CONCRETE MANHOLE BOX BASE

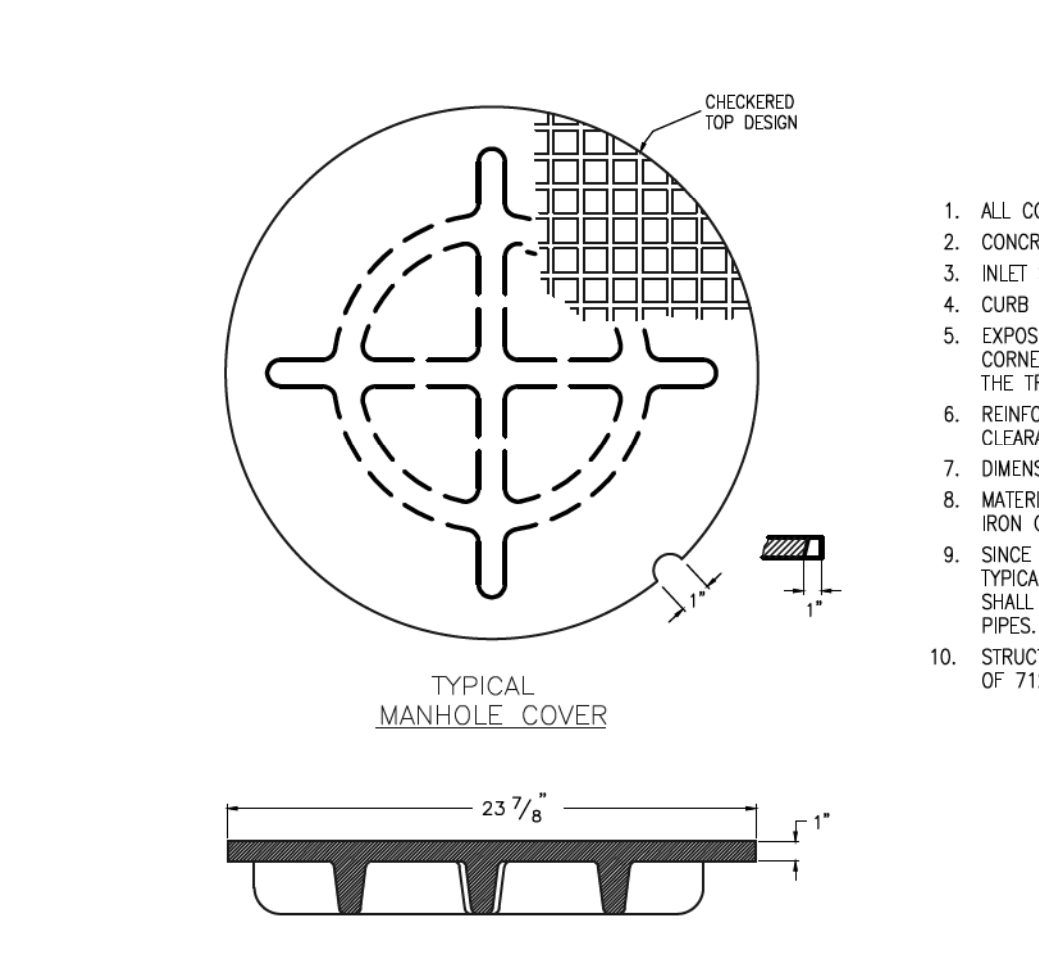
MARK	SIZE	TYPE	WT. PER YD.	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	FORMULAS
401	4	I	0.668	18	18	18	18	18	18	18	18	401 BAR LENGTH = 32" + 2W + I.D.
402	4	II	0.668	5	5	5	5	5	5	5	5	402 BAR LENGTH = I.D. + 2W
501	5	I	1.043	17	17	17	17	17	17	17	17	501 BAR LENGTH = 24" + I.D. + 2W
502	5	II	1.043	22	23	22	22	22	22	22	22	502 NUMBER BARS REQ'D. = 3 + (24 + I.D. + 2W) / L
503	5	II	1.043	12	12	12	12	12	12	12	12	503 NUMBER BARS REQ'D. = 2 + (12 + I.D. + 2W) / L
504	5	I	1.043	12	14	14	14	14	14	14	14	504 NUMBER BARS REQ'D. = 2 + (24 + I.D. + 2W) / L
1101	11	I	5.313	4	4	4	4	4	4	4	4	1101 BAR LENGTH = 21" + I.D. + 2W
1102	11	I	5.313	4	4	4	4	4	4	4	4	1102 BAR LENGTH = 21" + I.D. + 2W
1103	11	I	5.313	3	3	3	3	3	3	3	3	1103 BAR LENGTH = 21" + I.D. + 2W



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

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

MARK	DIA. IN.	O.C. SPACING	TYPE	INLETS, H = 5'				INLETS, H = 5'				
				L=5'	L=10'	L=15'	L=20'	L=5'	L=10'	L=15'	L=20'	
401	11"	II	15	21	26	11	11	11	11	11	11	11
402	11"	II	7	13	18	7	7	7	7	7	7	7
403	9"	II	4	10	14	4	4	4	4	4	4	4
406	6"	VI	11	8	10	11	8	10	11	8	10	11
405	6"	VIII	7	8	10	7	8	10	7	8	10	7
407	1 1/2"	III	3	5	10	3	5	10	3	5	10	3
408	12"	I	3	6	11	3	6	11	3	6	11	3
409	8"	II	6	5	10	6	5	10	6	5	10	6
410	11"	VII	11	8	10	11	8	10	11	8	10	11
411	11"	II	3	3	5	3	3	5	3	3	5	3
412	11"	II	3	3	5	3	3	5	3	3	5	3
413	9"	II	7	10	10	7	10	10	7	10	10	7
501	5 1/2"	IV	11	3	4	22	3	4	33	3	4	33
502	5 1/2"	III	5	3	6	16	3	6	27	3	6	27
503	5 1/2"	IX	5	3	6	16	3	6	27	3	6	27
504	5 1/2"	IX	5	3	6	16	3	6	27	3	6	27
601	2 1/2"	V	2	8	10	2	8	10	2	8	10	2
801	1	1	5	10	10	1	10	10	1	10	10	1

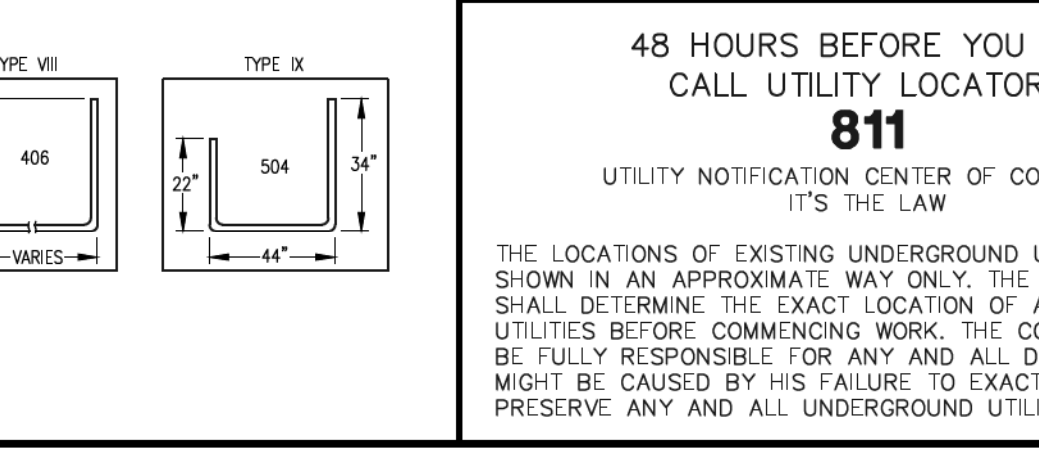
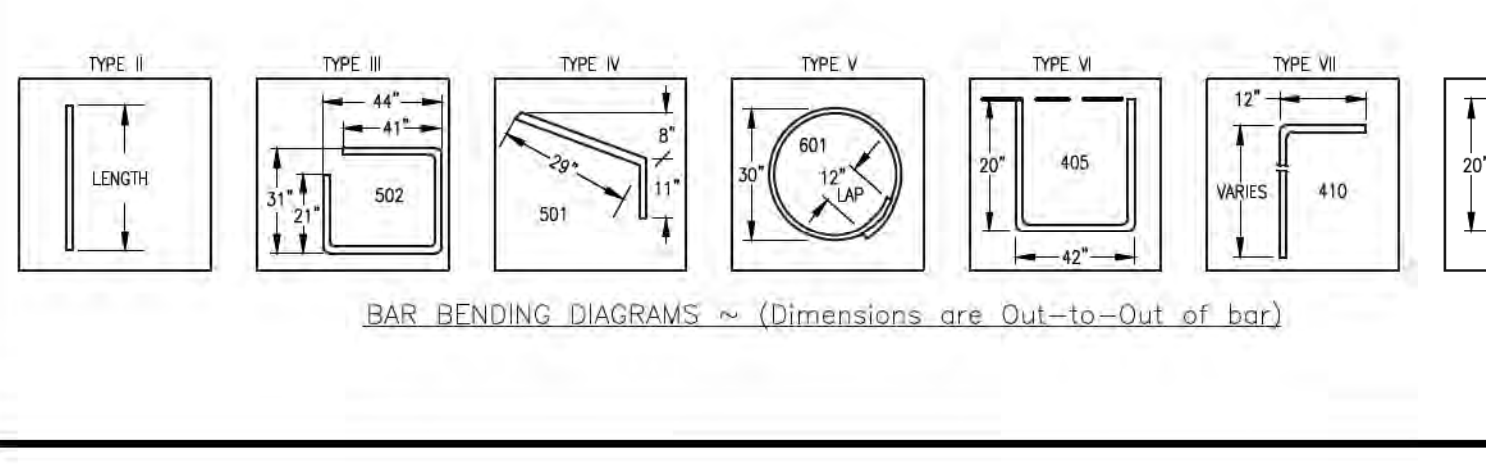
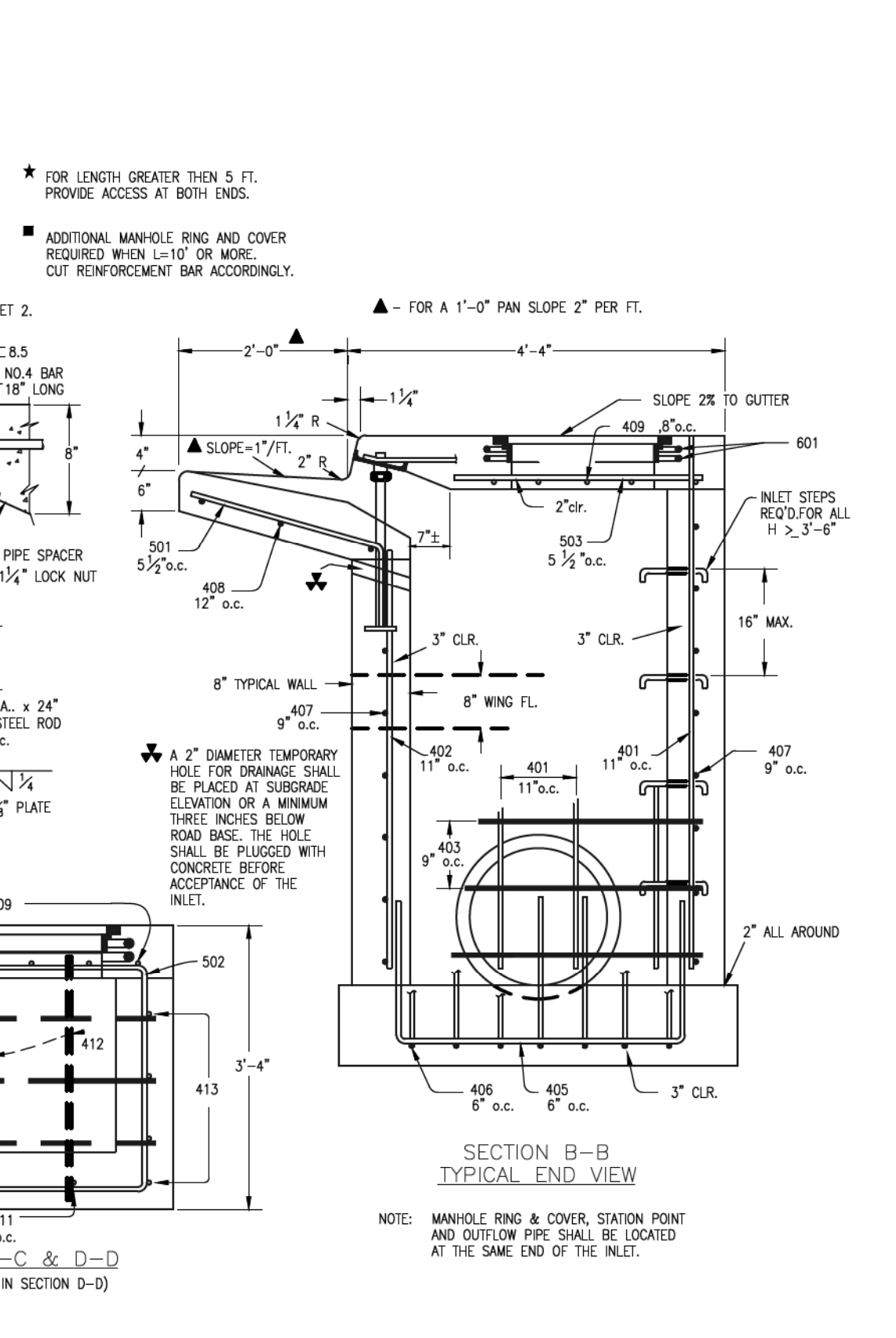
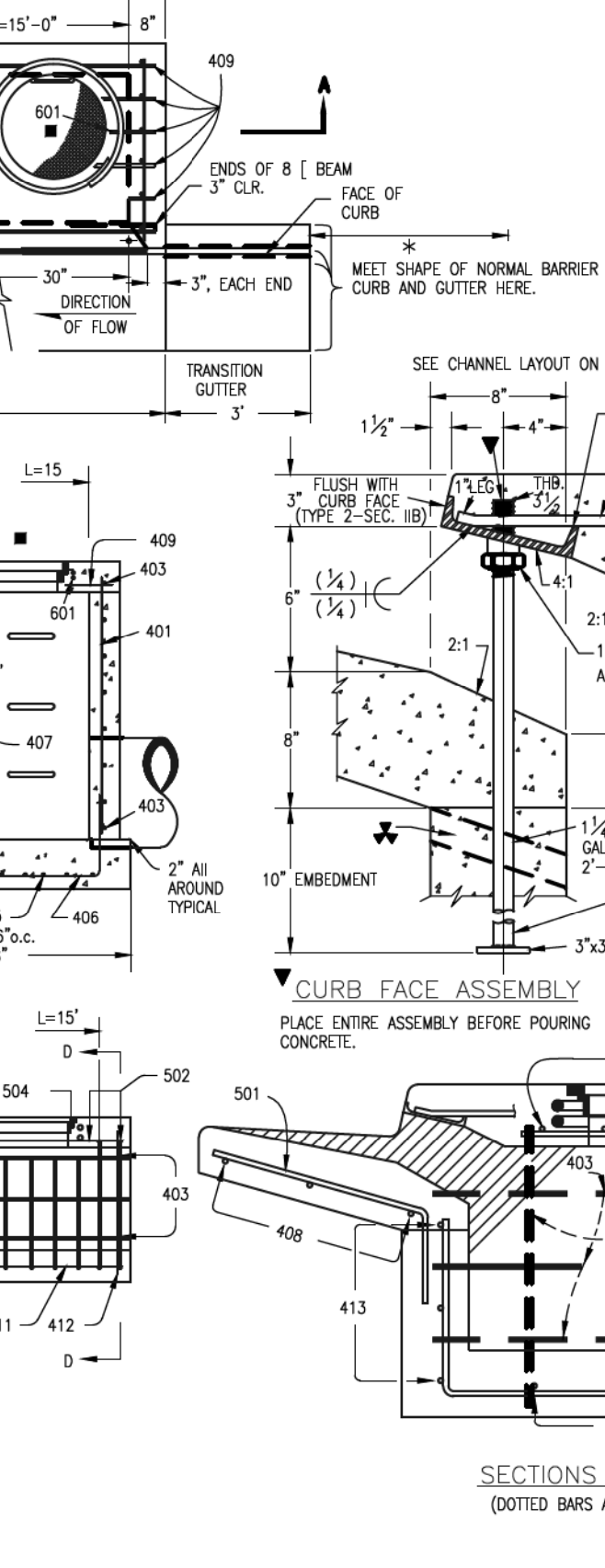
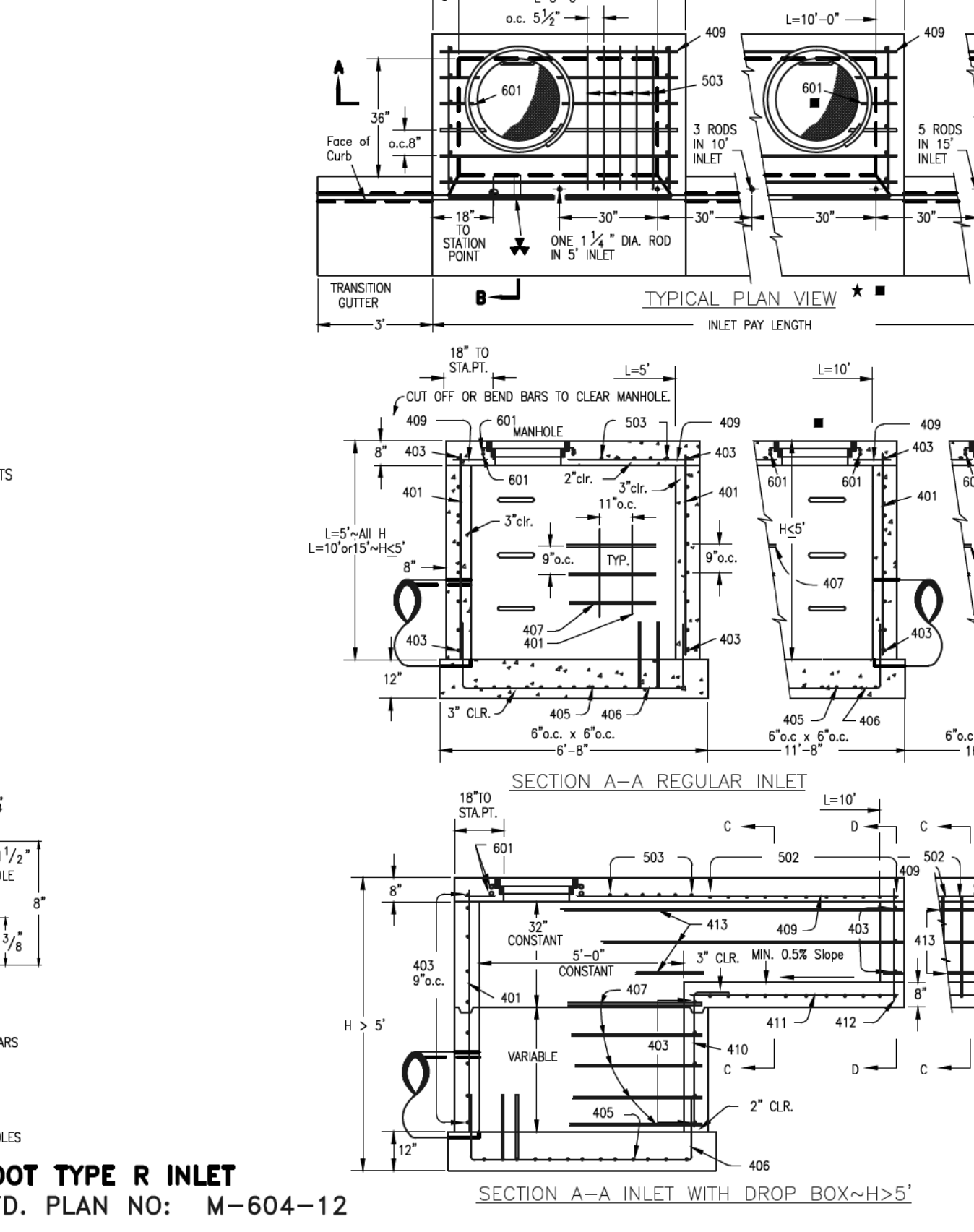
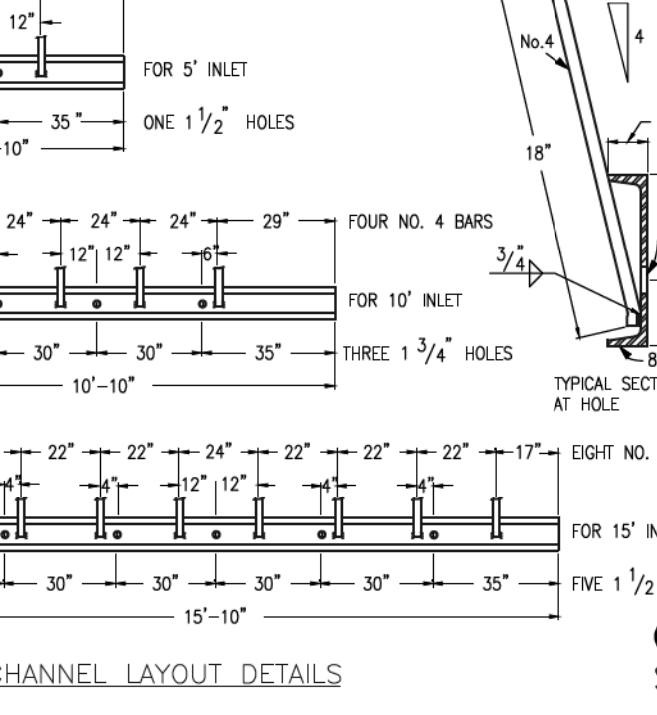
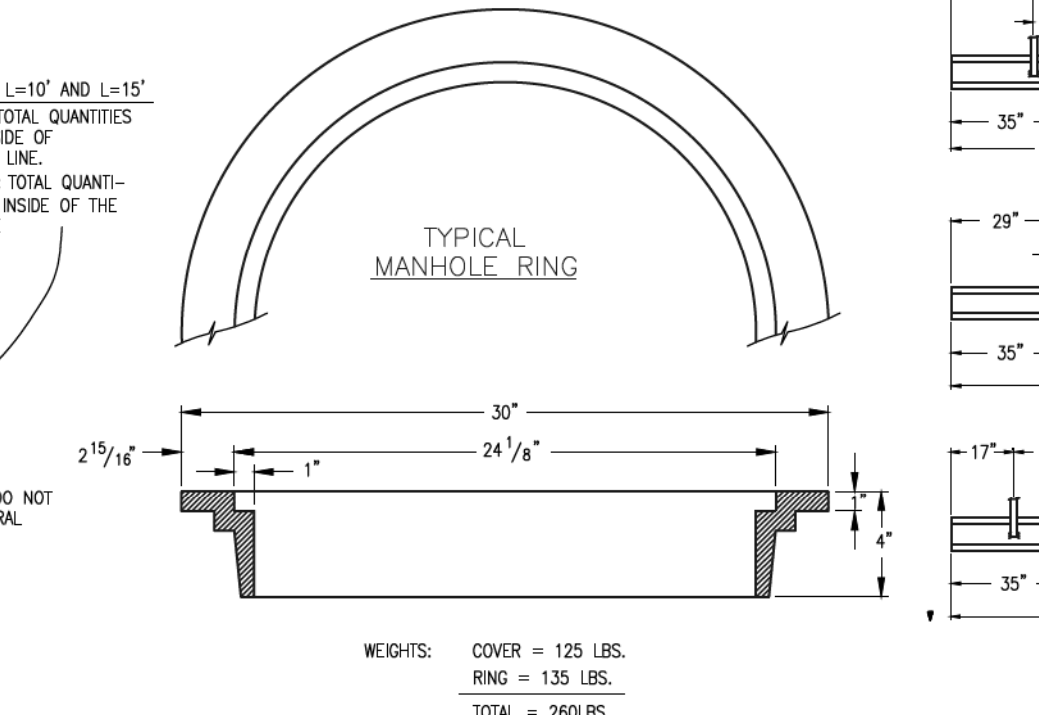


GENERAL NOTES

- 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 ASHOTO M 199.
- 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 SHALL 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 ENTRIES INTO THE BASE 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.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

H	LENGTH	REGULAR INLETS				DROPPED BOX INLETS			
		NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
3'-0"	2'-8"	10	7	3.4	305	5.3	497	7.4	708
3'-6"	3'-2"	10	7	3.4	305	5.7	528	7.9	747
4'-0"	3'-8"	12	9	3.7	326	6.0	559	8.4	786
4'-6"	4'-2"	12	9	3.7	324	6.4	571	8.8	803
5'-0"	4'-8"	14	11	4.1	354	6.7	602	9.3	844
5'-6"	5'-2"	16	13	4.4	375	6.0	607	7.4	850
6'-0"	5'-8"	16	13	4.4	382	6.2	616	7.8	860
6'-6"	6'-2"	18	15	4.8	402	6.4	637	7.8	880
7'-0"	6'-8"	20	17	5.0	423	6.6	654	8.0	897
7'-6"	7'-2"	20	17	5.0	430	6.9	664	8.3	907
8'-0"	7'-8"	22	19	5.5	451	7.1	684	8.5	927
8'-6"	8'-2"	24	21	5.7	471	7.3	702	8.7	944
9'-0"	8'-8"	24	21	5.7	479	7.6	711	9.0	954
9'-6"	9'-2"	26	23	6.2	499	7.8	732	9.2	974
10'-0"	9'-8"	28	25	6.4	520	8.0	749	9.4	992
10'-6"	10'-2"	28	25	6.4	527	8.3	759	9.7	1001
11'-0"	10'-8"	30	27	6.9	547	8.5	779	9.9	1022



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

NO. REVISION

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-26-18

REVIEW:

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

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

DATE: 10/19/18

CLASSIC CONSULTING

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	DATE	7-20-18
DRAWN BY	MAW	(H) 1" = NA	SHEET 17 OF 17	
CHECKED BY	(V) 1" = NA	JOB NO.	2053.50	