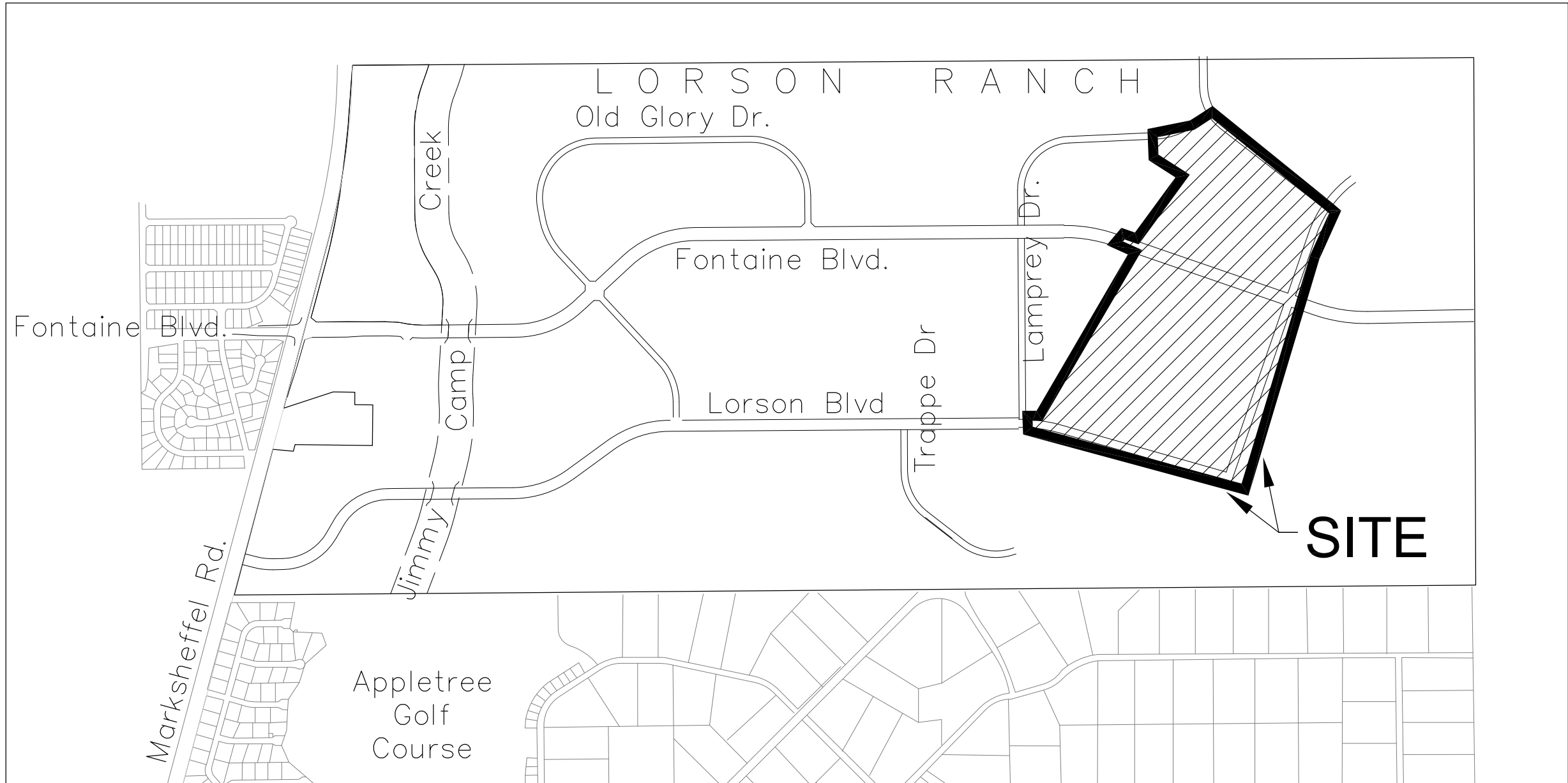
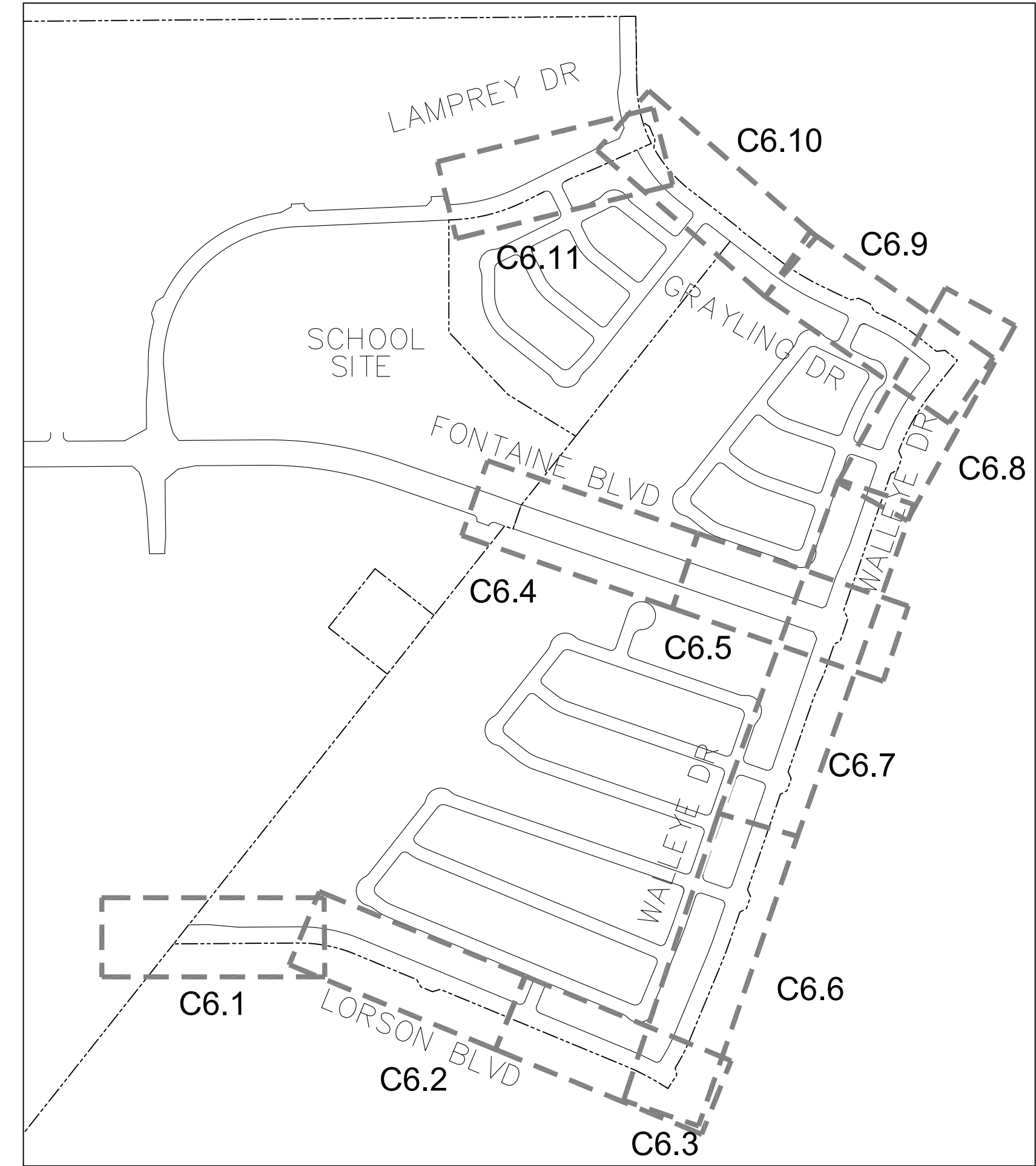


CONSTRUCTION PLANS  
FOR  
THE HILLS AT LORSON RANCH COLLECTOR STREETS  
STREET, STORM SEWER, WATERMAIN, SANITARY SEWER  
CONSTRUCTION PLANS



Know what's below.  
Call before you dig.

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

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
C1.1	COVER SHEET
C1.2a	NOTES – STREET AND STORM
C1.2b	NOTES – WATERMAIN AND SANITARY SEWER
C1.3	TYPICAL SECTIONS
C2.1–C2.2	STREET HORIZONTAL CONTROL
C5.1–C5.5	SIGNING/STRIPING PLANS
C6.1–C6.11	STREET/STORM PLAN AND PROFILES
C7.1–C7.4	PLAN AND PROFILE – STORM LATERALS
C8.1–C8.12	WATERMAIN AND SANITARY PLAN AND PROFILES
C9.1–C9.11	DETENTION POND LOW FLOW AND OUTLET DETAILS
C9.12–C9.15	DETENTION POND OUTLET STRUCTURE DETAILS
C10.1–C10.3	DETAILS – STREET AND STORM
C12.1–C12.2	DETAILS – WATERMAIN AND SANITARY

DEVELOPER'S STATEMENT

THE UNDERSIGNED OWNER/DEVELOPER HAS READ AND WILL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

BUSINESS NAME LORSON, LLC

BY \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_

ADDRESS 212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, CO 80903

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PHONE: 763-279-1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg.com

DATE \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS  
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. – GRAYLING DR  
LORSON BLVD – WALLEYE DR – LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

THE HILLS AT LORSON RANCH  
COLLECTOR STREET  
CONSTRUCTION PLANS

DATE:  
AUGUST 2, 2020  
PROJECT NO.  
100.061  
SHEET NUMBER  
C0.1  
TOTAL SHEETS: 58

**WATER / SANITARY**  
WIDEFIELD WATER AND SANITATION DISTRICT  
8495 FONTAINE BLVD.  
COLORADO SPRINGS, CO 80925  
719-390-7111

**CABLE**  
COMCAST  
P.O. BOX 173838  
DENVER, CO 80217  
970-641-4774

**ELECTRIC**  
MOUNTAIN VIEW ELECTRIC  
11140 E. WOODMEN RD.  
COLORADO SPRINGS, CO 80831  
719-495-2283

**TELEPHONE**  
CENTURYLINK  
7925 INDUSTRY ROAD  
COLORADO SPRINGS, CO 80939  
719-278-4651

**GAS**  
BLACK HILLS ENERGY  
7060 ALLEGRE ST.  
FOUNTAIN, CO 80817  
719-393-6639

**EL PASO COUNTY**  
PLANNING AND COMMUNITY DEVELOPMENT  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, CO 80910  
719-520-6300

**SECURITY FIRE PROTECTION DISTRICT**  
400 SECURITY BOULEVARD  
SECURITY, CO 80911  
719-392-7121

**BASIS OF BEARING**  
BEARINGS ARE BASED ON THE SOUTH LINE OF THE NORTH HALF OF SECTION 23, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEING SOUTH 89°15'2" WEST. THE EAST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 3-1/2" ALUMINUM CAP MONUMENT AND THE WEST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 2-1/2" ALUMINUM CAP MONUMENT

**BENCHMARK**  
FIMS MONUMENT F204 LOCATED AT THE NORTHWEST CORNER OF FONTAINE BLVD AND COTTONWOOD GROVE DR.  
ELEVATION 5724.072 (N.G.V.D. 29)

**TRAFFIC CONTROL NOTE**  
THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND MONITORING NECESSARY TO SAFELY COMPLETE THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS IN CONFORMANCE WITH M.U.T.C.D. GUIDELINES. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY WORK FOR PLAN REVIEW, PERMITS AND PROCESSING. TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY BUT IS INCLUDED IN THE COST OF THE PROJECT.

LEGEND

- SUBDIVISION BOUNDARY
- EXISTING AND PROPOSED RIGHT OF WAY
- EXISTING AND PROPOSED LOT LINES
- EXISTING AND PROPOSED EASEMENTS
- STREET CENTERLINE
- PROPOSED CURB AND GUTTER
- EX-W --- EXISTING WATERMAIN
- W-8 --- PROPOSED WATERMAIN
- SS-8 --- EXISTING SANITARY SEWER
- SS-8 --- PROPOSED SANITARY SEWER
- SS-24 --- EXISTING 24" SANITARY SEWER
- G --- EXISTING GASMAIN
- E --- EXISTING UNDERGROUND ELECTRIC
- OHE --- EXISTING OVERHEAD ELECTRIC
- TV --- EXISTING CABLE TV
- T --- EXISTING PHONE OR FIBER OPTIC
- EXISTING STORM DRAIN
- PROPOSED STORM SEWER
- --- EXISTING MANHOLES
- --- PROPOSED SANITARY AND STORM MANHOLES
- --- EXISTING AND PROPOSED WATERMAIN VALVES
- --- EXISTING AND PROPOSED FIRE HYDRANT
- EXISTING UTILITY POLE
- PROPOSED STORM SEWER INLET

PREPARED FOR:  
**LORSON, LLC**  
N. WAHSATCH AVE., SUITE 301  
COLORADO SPRINGS, CO 80903  
719-635-3200  
CONTACT: JEFF MARK

PREPARED BY:  
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
719-570-1100  
CONTACT: RICHARD L. SCHINDLER P.E.

DISTRICT APPROVAL (WATER)

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE WIDEFIELD WATER AND SANITATION DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT  
WATER DESIGN APPROVAL

DATE \_\_\_\_\_ BY \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

DISTRICT APPROVAL (WASTEWATER)

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE WIDEFIELD WATER AND SANITATION DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT  
WATER DESIGN APPROVAL

DATE \_\_\_\_\_ BY \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

PUDSP-20-003  
CDR 20-007

ENGINEER'S APPROVAL

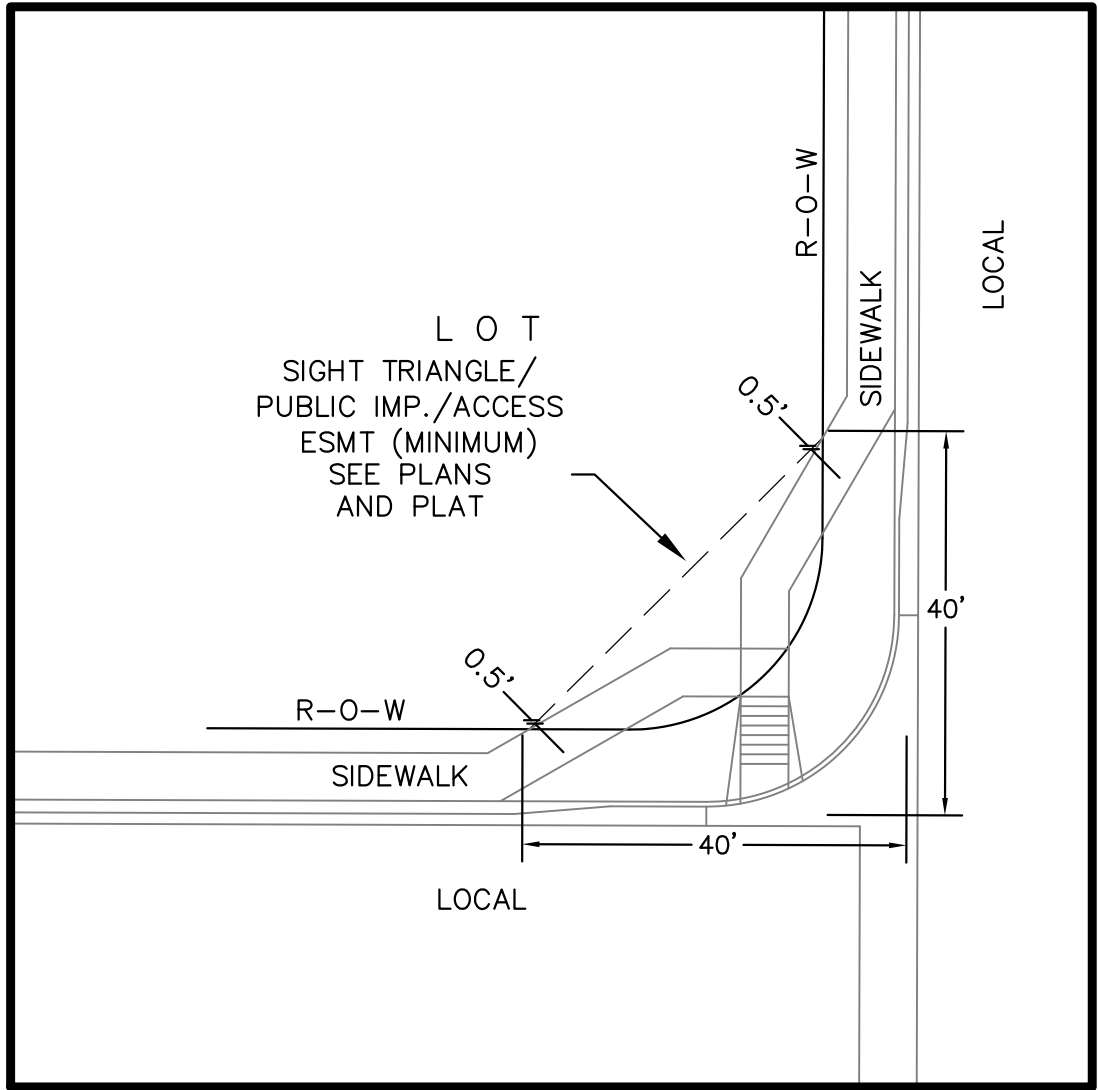
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS 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 CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

RICHARD L. SCHINDLER, P.E. # 33997  
FOR AND ON BEHALF OF CORE ENGINEERING GROUP



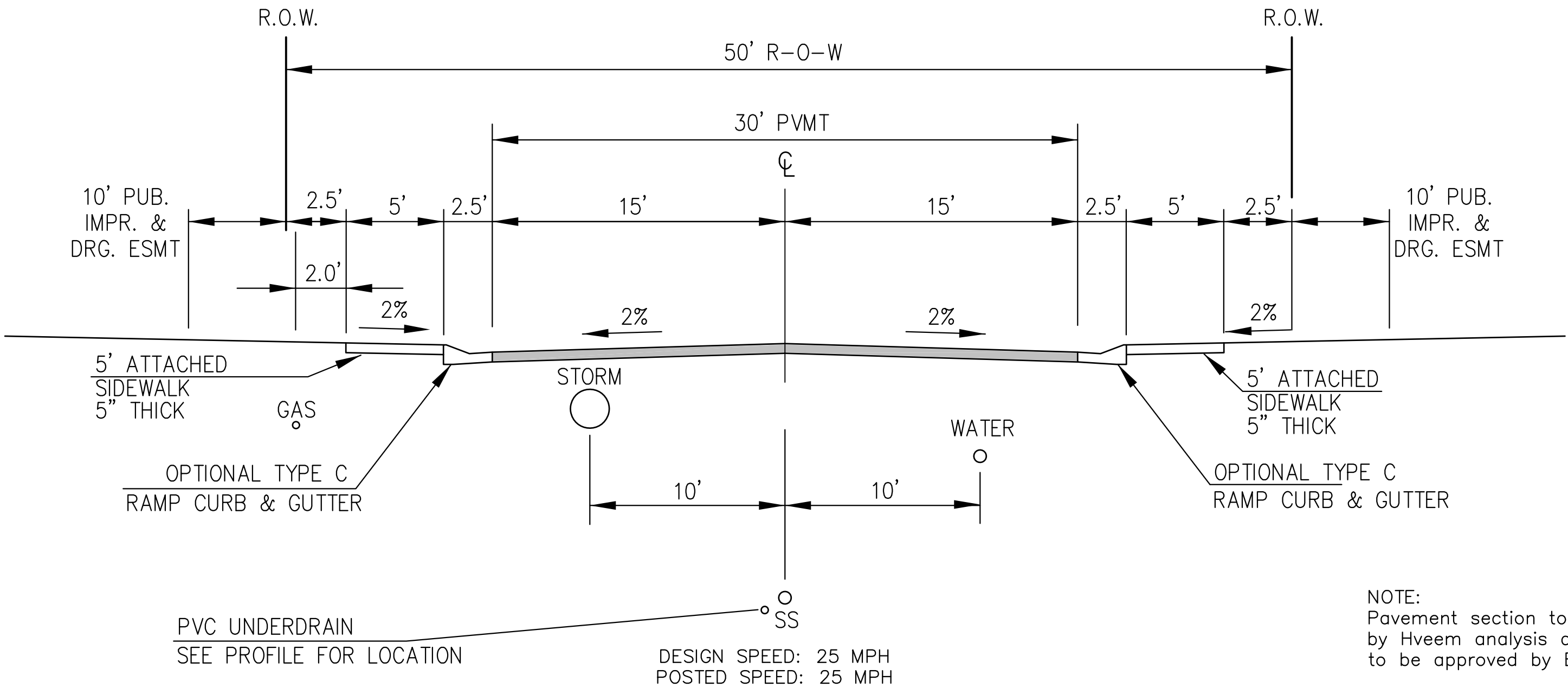
<div>WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES</div> <div><div><div>1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WIDEFIELD WATER AND SANITATION DISTRICT SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE WIDEFIELD WATER AND SANITATION DISTRICT OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION.</div><div>2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE WIDEFIELD WATER AND SANITATION DISTRICT. THE WIDEFIELD WATER AND SANITATION DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.</div><div>3. THE DEVELOPER OR HIS ENGINEER HAS LOCATED ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS. ANY REQUIRED REALIGNMENT, EITHER HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER.</div><div>4. ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHEYLENE TUBING, BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.</div><div>5. ALL DUCTILE IRON PIPE SHALL BE DOUBLE BONDED. DIP SHALL HAVE CATHODIC PROTECTION USING NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET.</div><div>6. PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.</div><div>7. ALL FITTINGS SHALL BE DUCTILE IRON –MECHANICAL JOINT AND HAVE 9 LB. MAGNESIUM ANODES AT EVERY FITTING.</div><div>8. THE CONTRACTOR IS REQUIRED TO NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT (390–7111) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.</div><div>9. THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.</div><div>10. THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE–INS. CONTRACTOR SHALL NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.</div><div>11. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.</div><div>12. ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.</div><div>13. THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY EITHER THE CONTRACTOR OR THE WIDEFIELD WATER AND SANITATION DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.</div><div>14. ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY BOTH THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER.</div><div>15. DISINFECTION SHALL BE ACCOMPLISHED BY GLUING TABLETS TO THE TOP OF THE LINE. POWDER OR GRANULER HTH SHALL NOT BE USED. SEE WIDEFIELD SPECS FOR FURTHER DEFINITION OF DISINFECTION TECHNIQUES.</div><div>16. CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.</div><div>17. ALL WATER LINES 6” AND LARGER, AND ALL SEWER LINES 8” AND LARGER, SHALL HAVE AS “AS–BUILT” PLANS PREPARED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY THE WIDEFIELD WATER AND SANITATION DISTRICT.</div><div>18. PRIOR TO CONSTRUCTION, A <u>PRE–CONSTRUCTION CONFERENCE IS REQUIRED</u> A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. TO SET THE PRE–CONSTRUCTION CONFERENCE, CONTACT BRANDON BERNARD–WATER DEPARTMENT MANAGER AND/OR JASON DREESEN, WASTEWATER DEPARTMENT MANAGER OF THE WIDEFIELD WATER AND SANITATION DISTRICT AT 719–955–0548 FOR A TIME. <u>NO PRE–CONSTRUCTION CONFERENCE TIMES WILL BE SET UNTIL 4 SETS OF SIGNED DRAWINGS ARE RECEIVED BY THE WIDEFIELD W &amp; S DISTRICT.</u> PRE–CONSTRUCTION DATE /INITIALS</div></div></div> <div><div>WIDEFIELD WATER AND SANITATION DISTRICT UTILITY CONSTRUCTION NOTES</div><div><div>1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE CATHODIC PROTECTION AND 9 LB MAGNESIUM ANODES AT EVERY FITTING.</div><div>2. ALL FIRE HYDRANTS SHALL BE GUARDIAN K–81D HYDRANT KENNEDY VALVE OR AMERICAN AVK SERIES 2700, (MODERN)</div></div></div> <div><div>UNDERDRAIN CONSTRUCTION NOTES</div><div><div>1. SUMP PUMP DISCHARGES FROM HOUSES MUST DISCHARGE TO UNDERGROUND UNDERDRAIN LATERALS, OPEN SPACE, PONDS, OR SWALES AND ARE NOT ALLOWED TO FLOW OVER PUBLIC SIDEWALK OR CURB/GUTTER.</div><div>2. ALL PVC UNDERDRAIN MAINS SHALL BE 4” PVC, SDR 35.</div><div>3. UNDERDRAIN LATERALS SHALL BE 3” PVC, SDR 35</div><div>4. UNDERDRAIN CLEANOUT BOXES ON THE MAINS SHALL BE A CAST IRON TWO PIECE HEAVY DUTY VALVE BOX MANUFACTURED BY STAR PIPE PRODUCTS OR APPROVED EQUAL. THE TOP PIECE SHALL BE 16” TALL AND THE BOTTOM PIECE SHALL BE 36” TALL.</div><div>5. PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.</div><div>6. ALL FITTINGS SHALL BE DUCTILE IRON –MECHANICAL JOINT AND HAVE 1 LB. MAGNESIUM ANODES AT EVERY FITTING.</div><div>7. THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.</div><div>8. THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE–INS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.</div><div>9. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.</div><div>10. THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY THE CONTRACTOR AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.</div></div></div>									
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LOCAL ROADWAY SIGHT TRIANGLE  
PUBLIC IMPROVEMENT ESMT.  
NOT TO SCALE

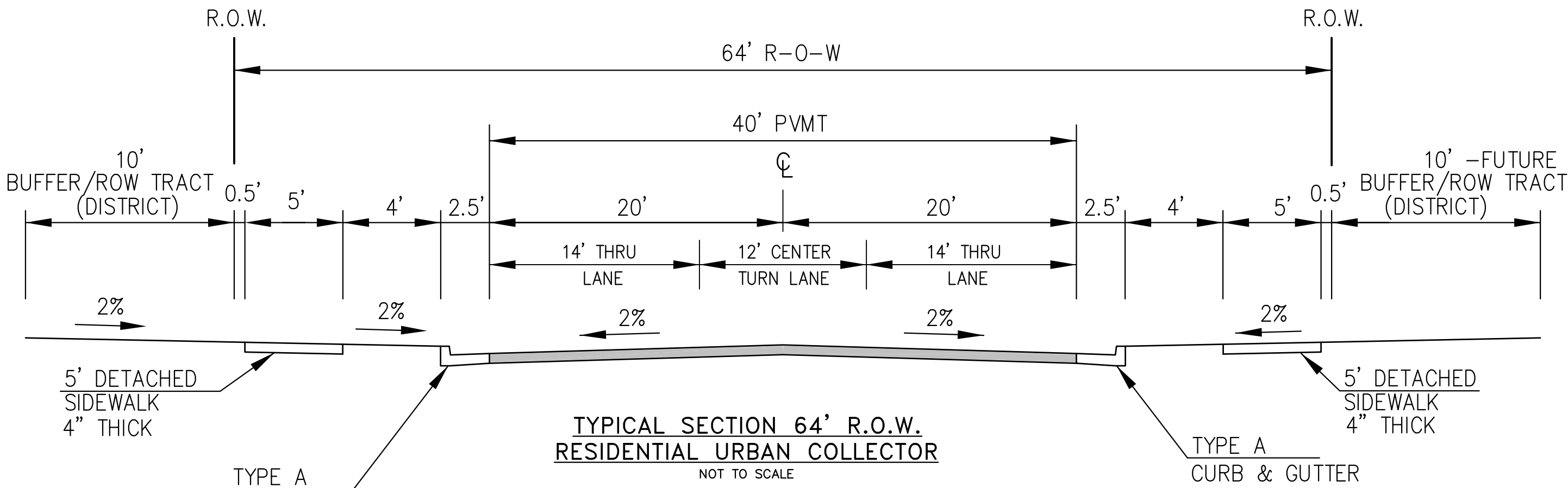
NOTE:  
ADDITIONAL PUBLIC IMPROVEMENT EASEMENTS ARE REQUIRED WHERE  
SIDEWALK ENCROACHES INTO THE PRIVATE LOTS. SEE CONSTRUCTION DRAWINGS  
AND THE FINAL PLAT. SEE CONSTRUCTION DRAWINGS AND PLAT FOR SIGHT TRIANGLES



TYPICAL SECTION 50' R.O.W.  
RESIDENTIAL URBAN LOCAL  
NOT TO SCALE

BROOKTROUT TR, SPLAKE ST, LAKE TROUT DR,  
SANDERLING ST, SCRUB JAY TR, YELLOWTHROAT TER, MURRELET DR

NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by El Paso County PCD Engineering

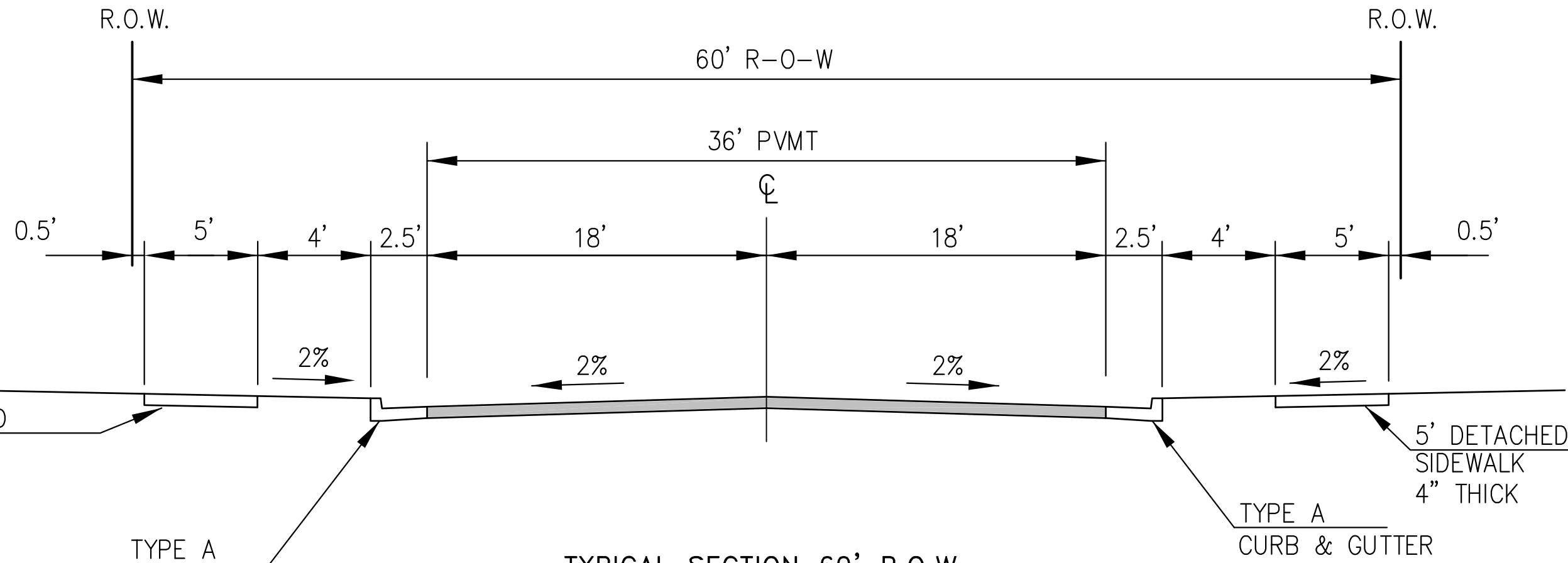


TYPICAL SECTION 64' R.O.W.  
RESIDENTIAL URBAN COLLECTOR  
NOT TO SCALE

LORSON BOULEVARD (LAMPREY DR TO WALLEYE DR)  
WALLEYE DRIVE (SOUTH OF FONTAINE BLVD)

DESIGN SPEED: 40 MPH  
POSTED SPEED: 35 MPH

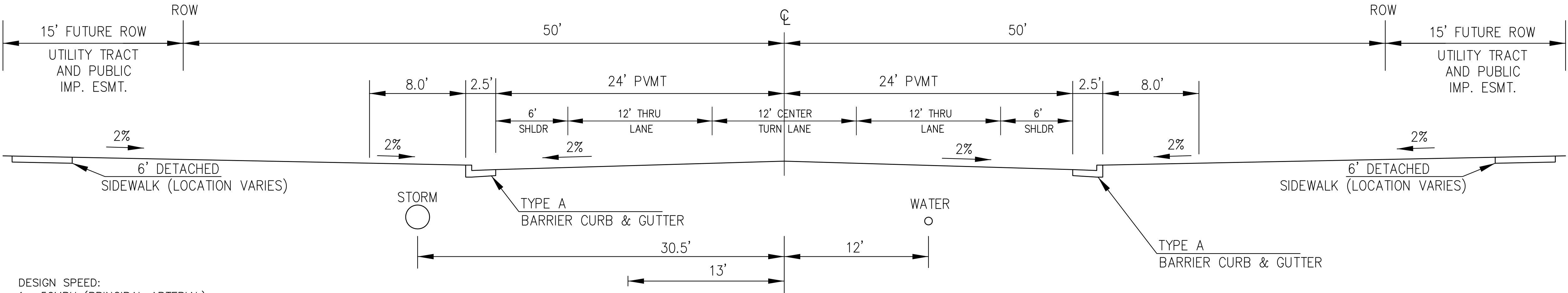
NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by PCD Engineering



TYPICAL SECTION 60' R.O.W.  
RESIDENTIAL URBAN COLLECTOR  
NOT TO SCALE

WALLEYE DRIVE (NORTH OF FONTAINE)  
GRAYLING DRIVE  
LAMPREY DRIVE

DESIGN SPEED: 40 MPH  
POSTED SPEED: 35 MPH



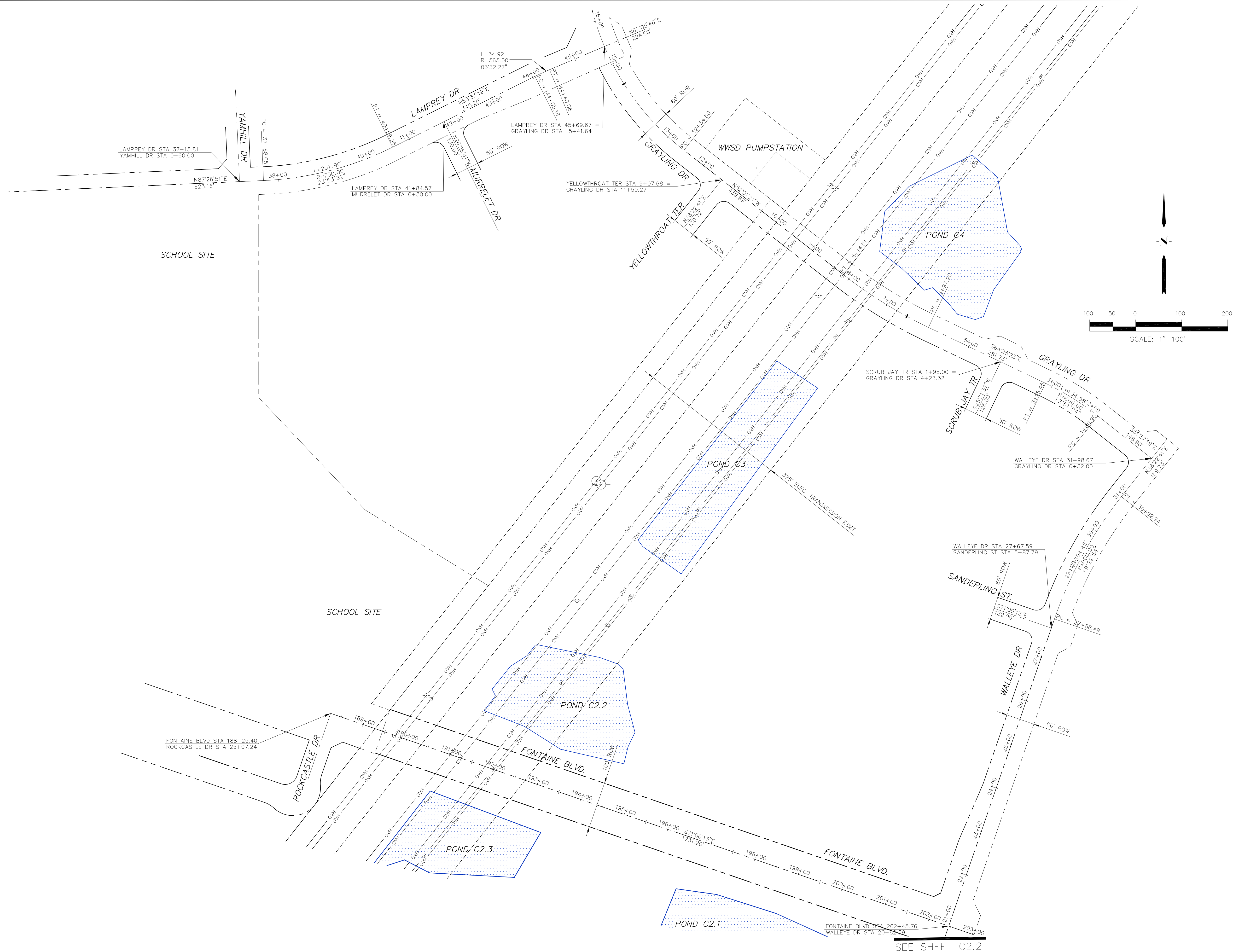
TYPICAL SECTION 100' R.O.W.  
FONTAINE BLVD  
NOT TO SCALE

DESIGN SPEED:  
1. 50MPH (PRINCIPAL ARTERIAL)  
2. 40MPH FOR TAPERS (WESTBOUND) (NON-RES COLLECTOR)

NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by El Paso County PCD and Engineering

CORE		ENGINEERING GROUP	
DATE		15004 1ST AVENUE S. BURNSVILLE, MN 55306 PH: 763.570.1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: rich@cegi.com	
DESCRIPTION		PREPARED FOR: LORSON, LLC 212 N. WAHSAATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: JEFF MARK	
NO.		PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD - GRAYLING DR LORSON BOULEVARD - WALLEYE DR COLORADO SPRINGS, COLORADO	
TYPICAL SECTIONS		DRAWN: RLS DESIGNED: RLS CHECKED: RLS	
		DATE: AUGUST 2, 2020	
		PROJECT NO. 100.061	
		SHEET NUMBER C1.3	
		TOTAL SHEETS: 58	

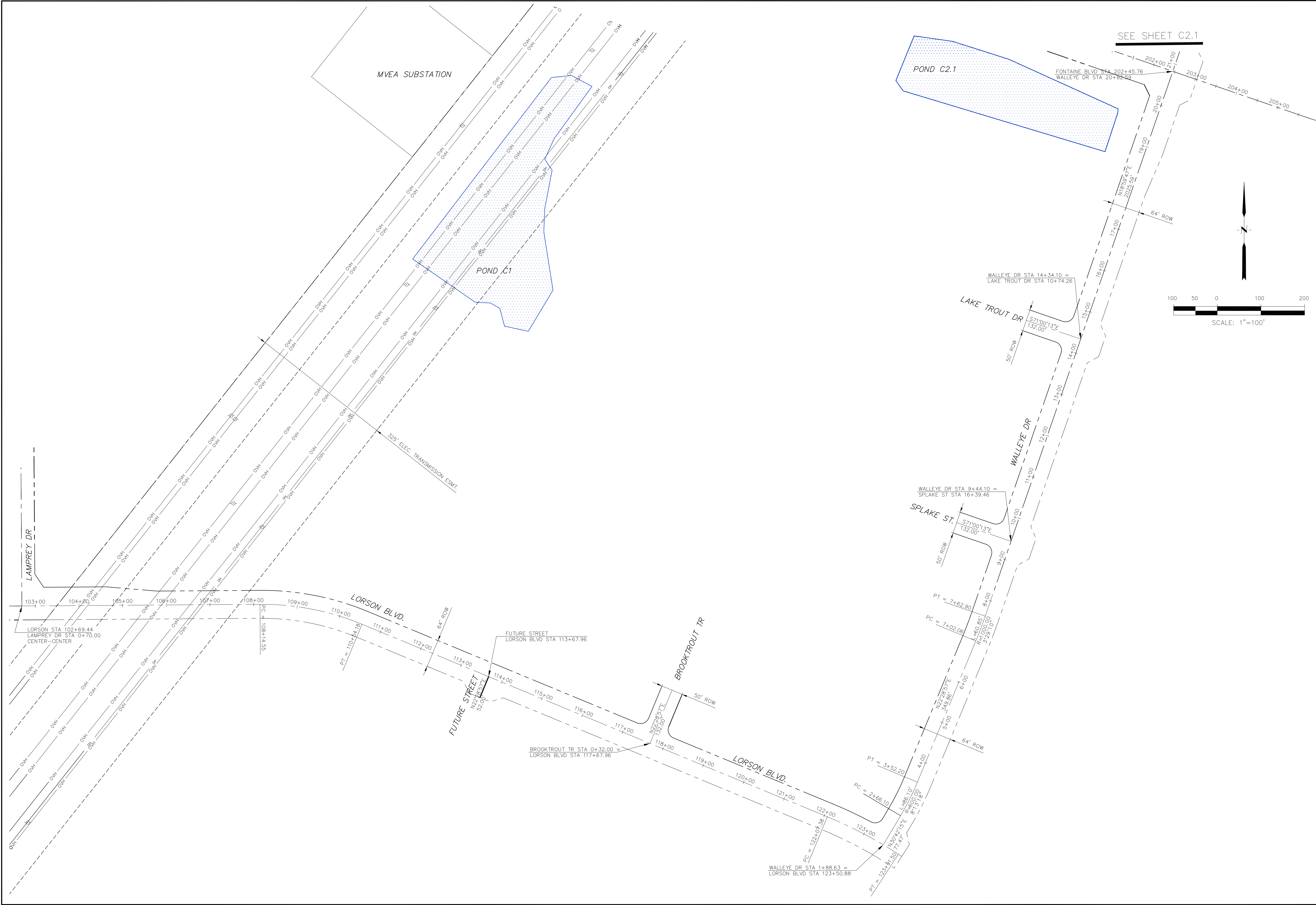




<b>CORE</b>	
<b>ENGINEERING GROUP</b>	
15004 1ST AVENUE S. DENVER, CO 80202 PHONE: 303.750.1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@cog1.com	
DATE	
DESCRIPTION	
NO.	
DRAWN: RLS DESIGNED: RLS CHECKED: RLS	
HORIZONTAL CONTROL PLAN	
DATE: AUGUST 2, 2020	
PROJECT NO. 100.061	
SHEET NUMBER C2.1	
TOTAL SHEETS: 58	

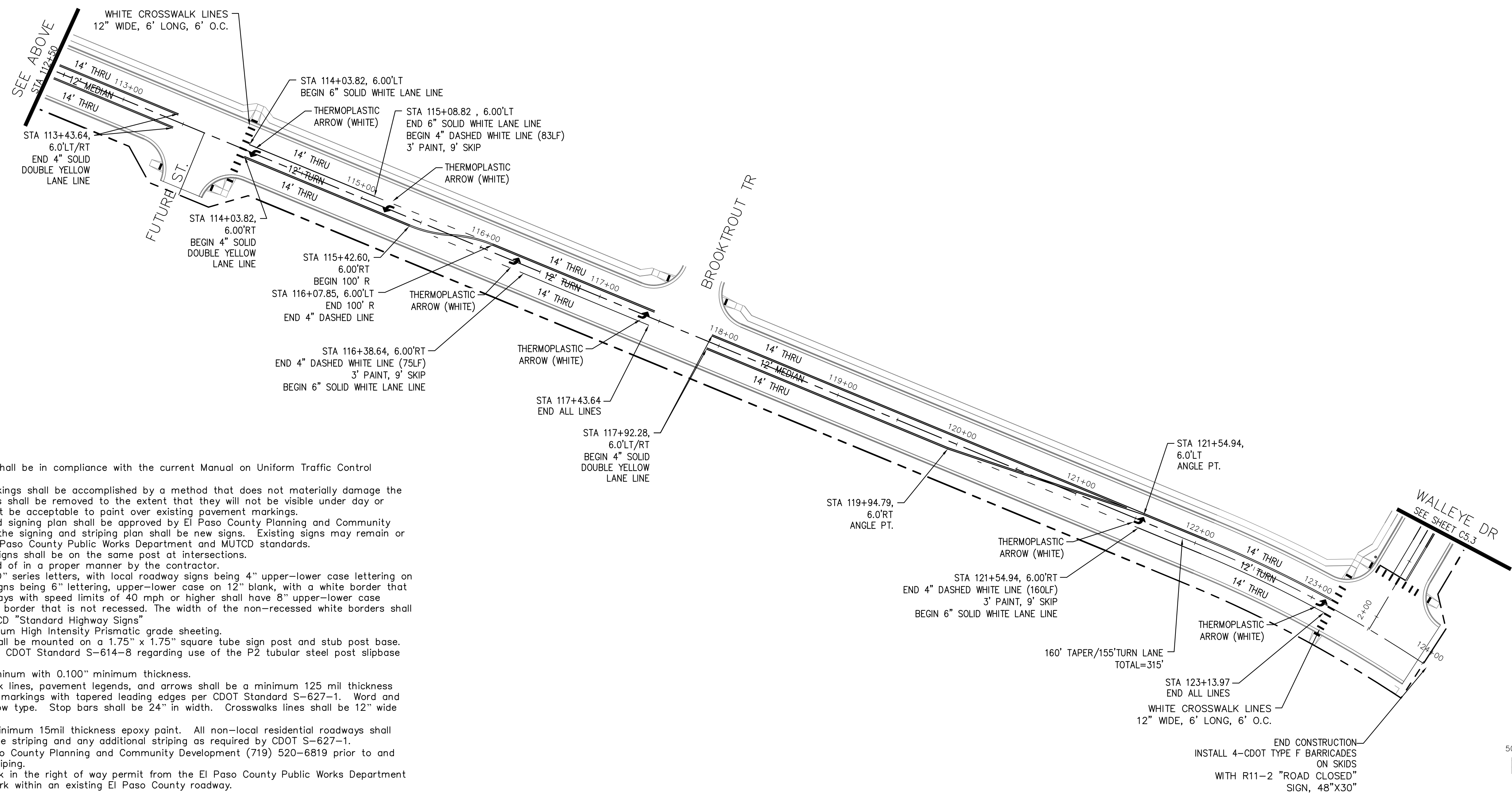
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO



CORE ENGINEERING GROUP 15004 1ST AVENUE S. BURNING WOOD, CO 80903 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com		DATE			
		DESCRIPTION			
NO.	PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD. - GRAYLING DR LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO	PREPARED FOR: LORSON, LLC 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK			
		DRAWN: RLS DESIGNED: RLS CHECKED: RLS			
HORIZONTAL CONTROL PLAN					
				DATE: AUGUST 2, 2020	
				PROJECT NO. 100.061	
SHEET NUMBER C2.2		TOTAL SHEETS: 58			

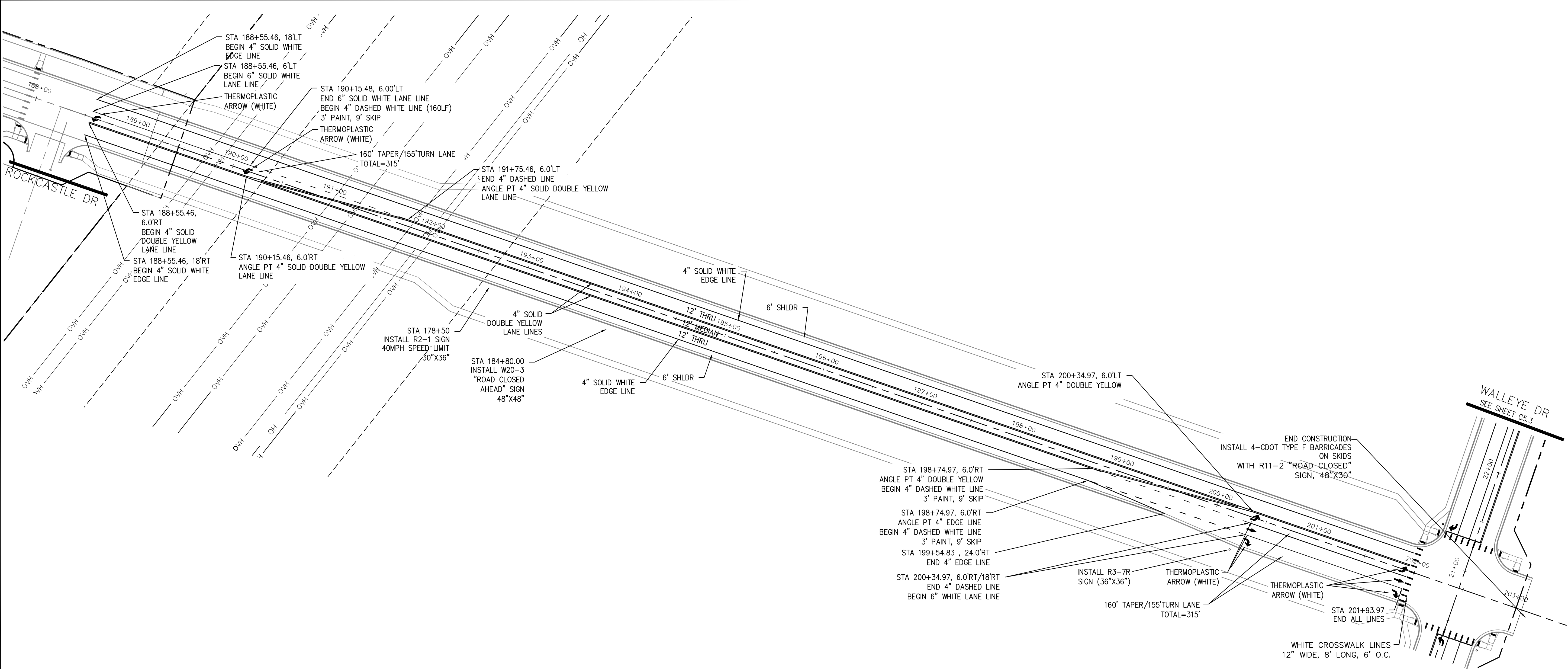




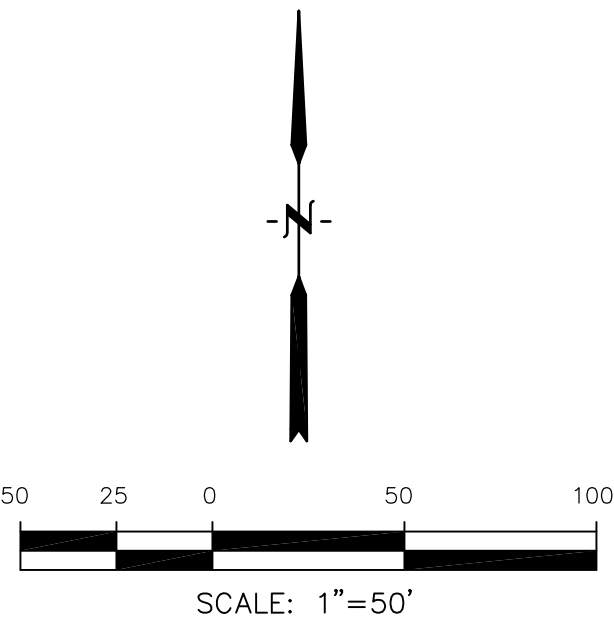
1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that 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. 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 Public Works Department and MUTCD standards.
4. Street name and regulatory stop signs shall be on the same post at intersections.
5. All removed signs shall be disposed of in a proper manner by the contractor.
6. 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"
7. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
8. 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.
9. All signs shall be single sheet aluminum with 0.100" minimum thickness.
10. 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.
11. 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.
12. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
13. The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.

<p style="text-align: center;"><b>LORSON BLVD</b></p> <p style="text-align: center;"><b>SIGNING &amp; STRIPING PLAN</b></p>		<p>DATE: AUGUST 2, 2020</p>	
<p>PROJECT NO. <b>100.061</b></p>		<p>SHEET NUMBER <b>C5.1</b></p>	
<p>TOTAL SHEETS: 58</p>		<p>DATE: AUGUST 2, 2020</p>	
<p>DRAWN: RLS DESIGNED: RLS CHECKED: RLS</p>		<p>PROJECT: <b>THE HILLS COLLECTOR STREET CONSTRUCTION</b> FONTAINE BLVD. - GRAYLING DR LORSON BLVD-WALLEYE DR-LAMPREY DR COLORADO SPRINGS, COLORADO</p>	
<p>NO.</p>		<p>DESCRIPTION</p>	
<p>DATE</p>		<p>PREPARED FOR: <b>LORSON, LLC</b> 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK</p>	
<p><b>CORE</b></p>		<p><b>ENGINEERING GROUP</b></p>	
<p>15004 1ST AVENUE S. SUITE 100 DENVER, CO 80202 PHONE: 720.570.1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com</p>			

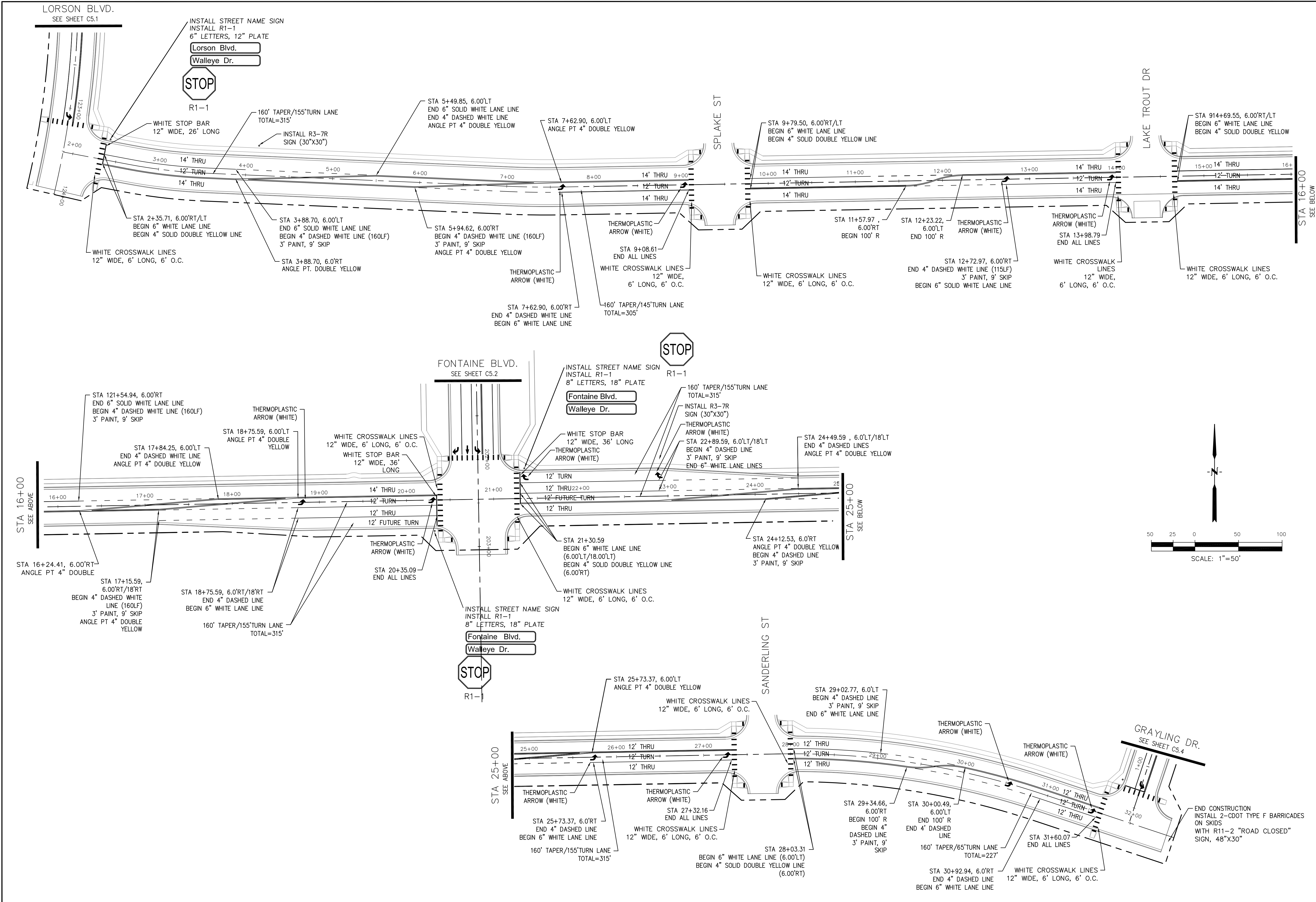




- Signing and Striping Notes:
1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings 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. 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 Public Works Department and MUTCD standards.
  4. Street name and regulatory stop signs shall be on the same post at intersections.
  5. All removed signs shall be disposed of in a proper manner by the contractor.
  6. 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".
  7. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  8. 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.
  9. All signs shall be single sheet aluminum with 0.100" minimum thickness.
  10. 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.
  11. 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.
  12. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  13. The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.

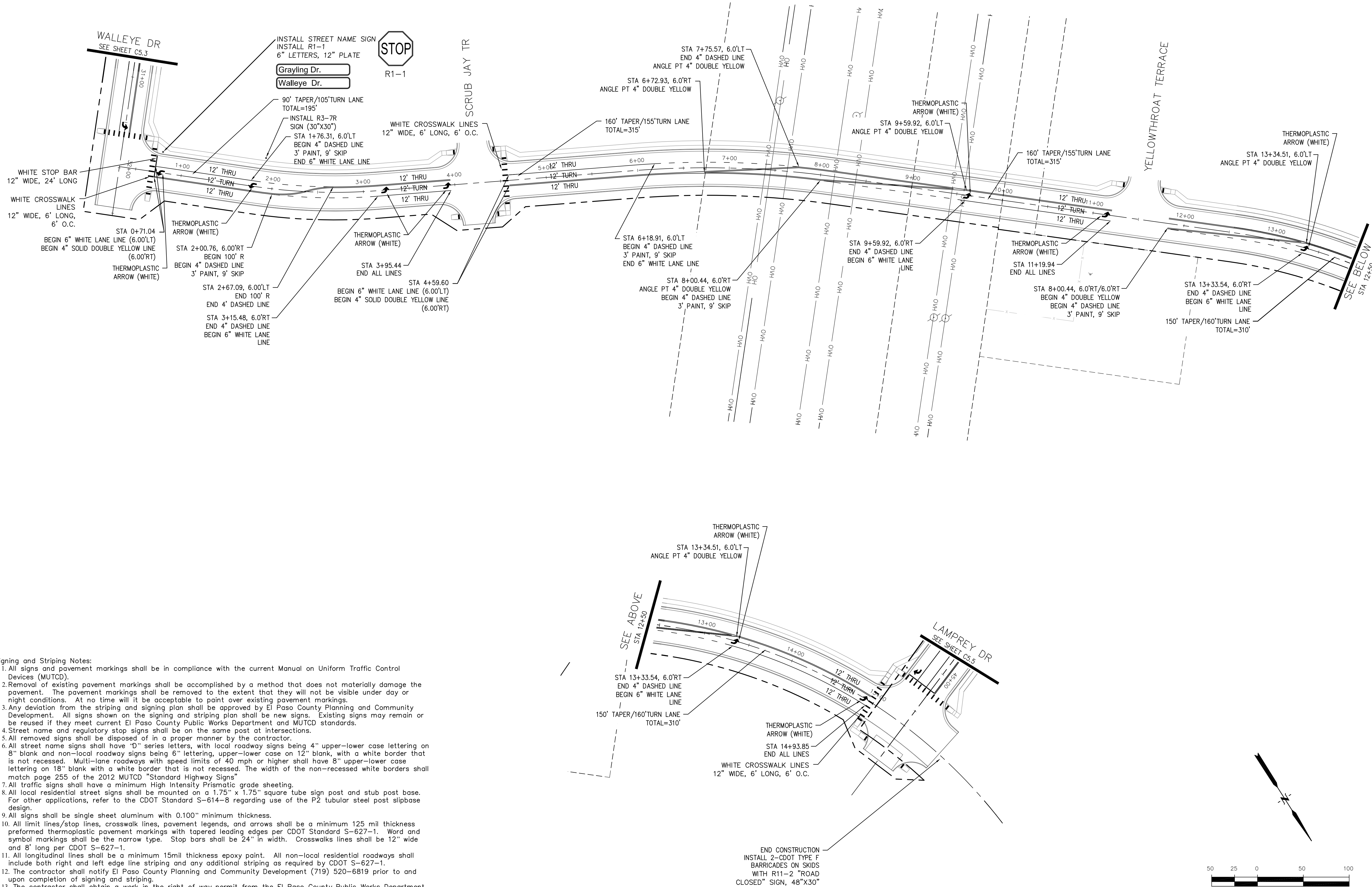


<b>CORE</b> <b>ENGINEERING GROUP</b> 15004 1ST AVENUE S. BURNESVILLE, MO 65306 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg.com	
DATE	
DESCRIPTION	
NO.	
DRAWN: RLS DESIGNED: RLS CHECKED: RLS	
PROJECT: <b>THE HILLS COLLECTOR STREET CONSTRUCTION</b> 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: JEFF MARK	
PREPARED FOR: <b>LORSON, LLC</b> 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: JEFF MARK	
FONTAINE BLVD. - SIGNING & STRIPING PLAN	
DATE: AUGUST 2, 2020	
PROJECT NO. 100.061	
SHEET NUMBER C5.2	
TOTAL SHEETS: 58	



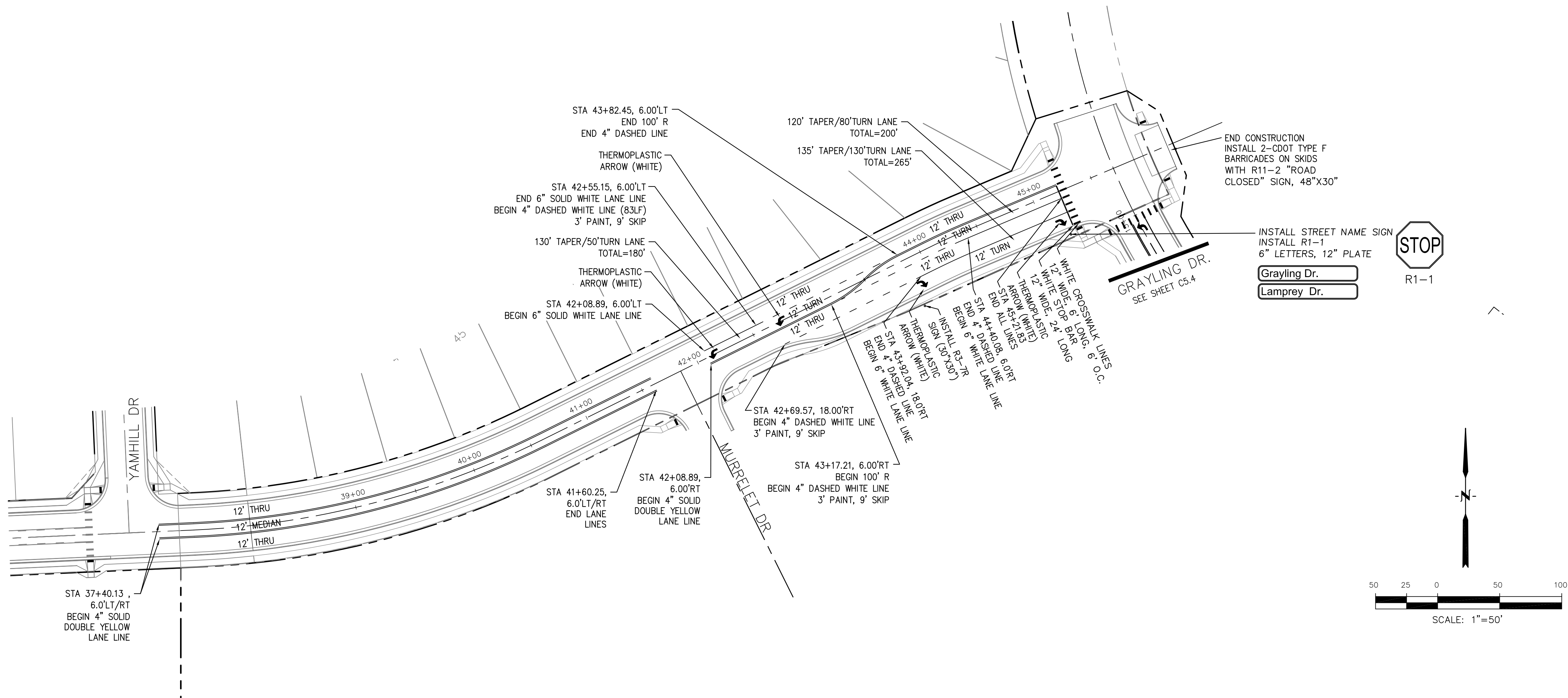
<b>CORE</b>	
<b>ENGINEERING GROUP</b>	
15004 1ST AVENUE S. BURNING WOOD, MO 65506 PHONE: 636-336-5536 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	
NO.	1.
DATE	4/20/2018
DESCRIPTION	ADD WARNING SIGNS PER COUNTY COMMENTS
PROJECT	THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD - GRAYLING DR LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO
PREPARED FOR:	LORSON, LLC 212 N. WAHATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK
DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS
WALLEYE DR SIGNING & STRIPING PLAN	
DATE: AUGUST 2, 2020	
PROJECT NO. 100.061	
SHEET NUMBER C5.3	
TOTAL SHEETS: 58	

- 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. 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 Public Works Department and MUTCD standards.
  4. Street name and regulatory stop signs shall be on the same post at intersections.
  5. All removed signs shall be disposed of in a proper manner by the contractor.
  6. 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".
  7. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  8. 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.
  9. All signs shall be single sheet aluminum with 0.100" minimum thickness.
  10. 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.
  11. 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.
  12. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  13. The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.



<b>CORE</b> <b>ENGINEERING GROUP</b> 15004 1ST AVENUE S. BURNING WOOD, CO 80903 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	DATE	
	DESCRIPTION	
	NO.	
	DRAWN: RLS DESIGNED: RLS CHECKED: RLS	
PREPARED FOR: <b>LORSON, LLC</b> 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: JEFF MARK	PROJECT: <b>THE HILLS COLLECTOR STREET CONSTRUCTION</b> FONTAINE BLVD - GRAYLING DR LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO	
<b>GRAYLING DRIVE SIGNING &amp; STRIPING PLAN</b>		
DATE: AUGUST 2, 2020		
PROJECT NO. 100.061		
SHEET NUMBER C5.4		
TOTAL SHEETS: 58		

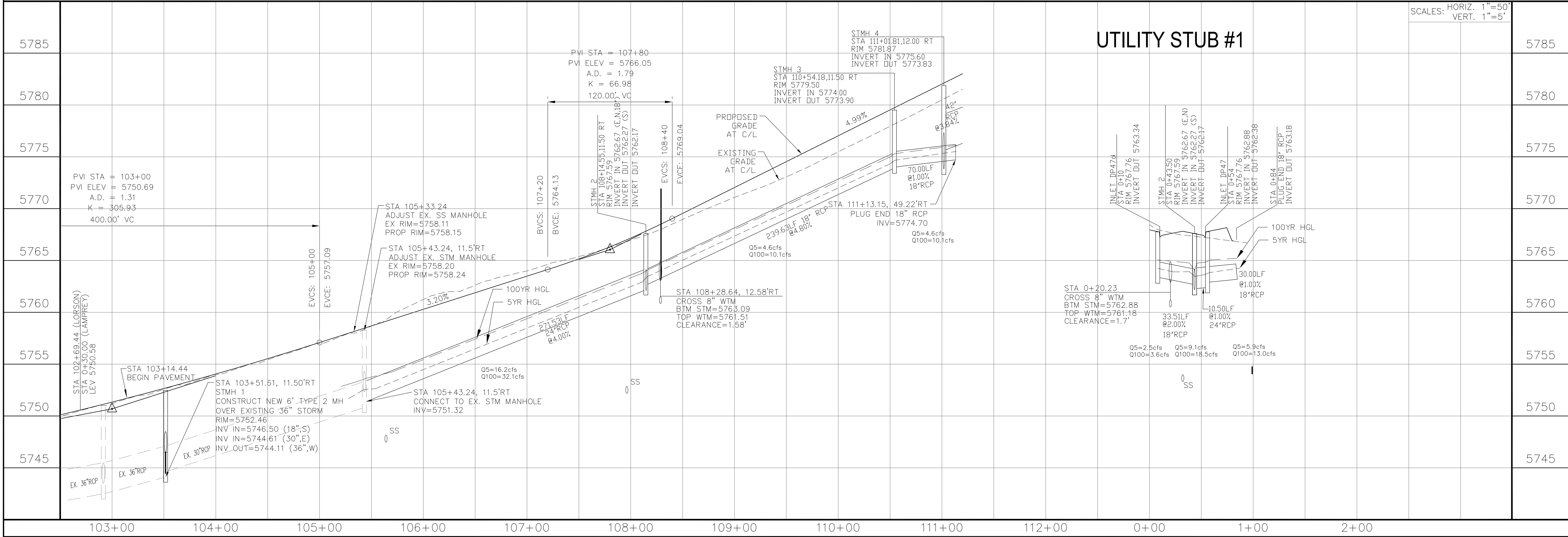
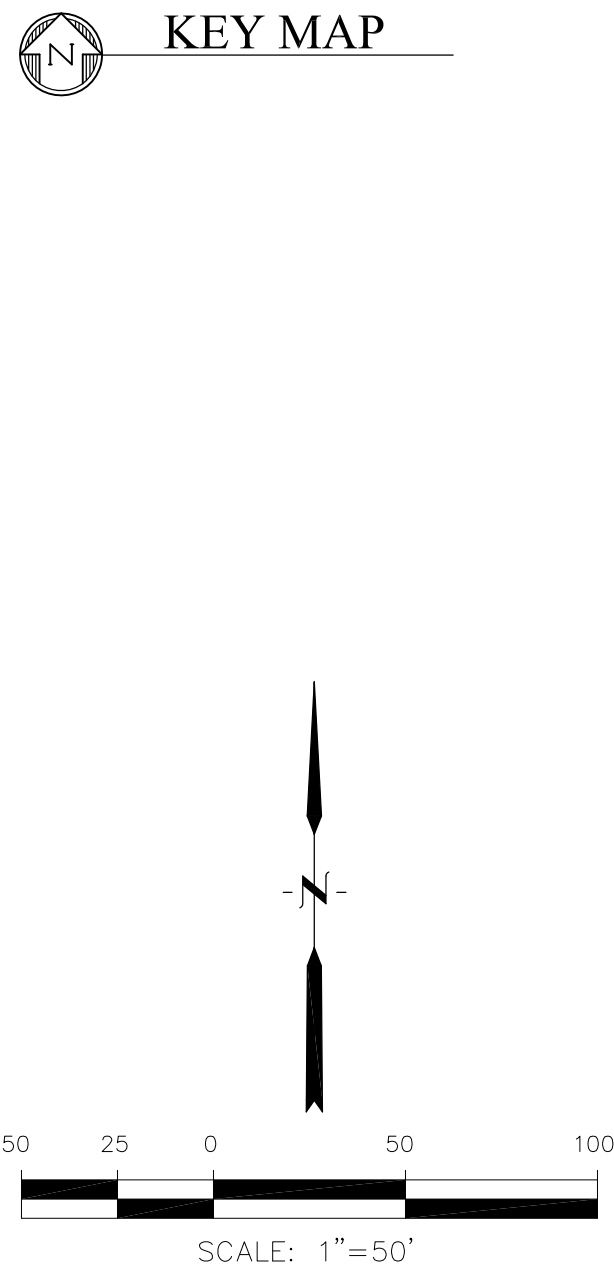
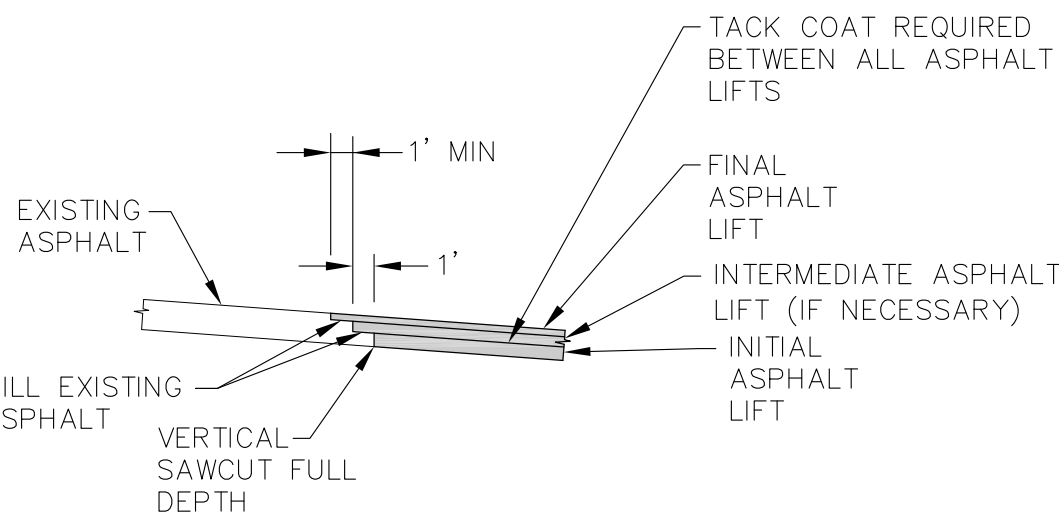
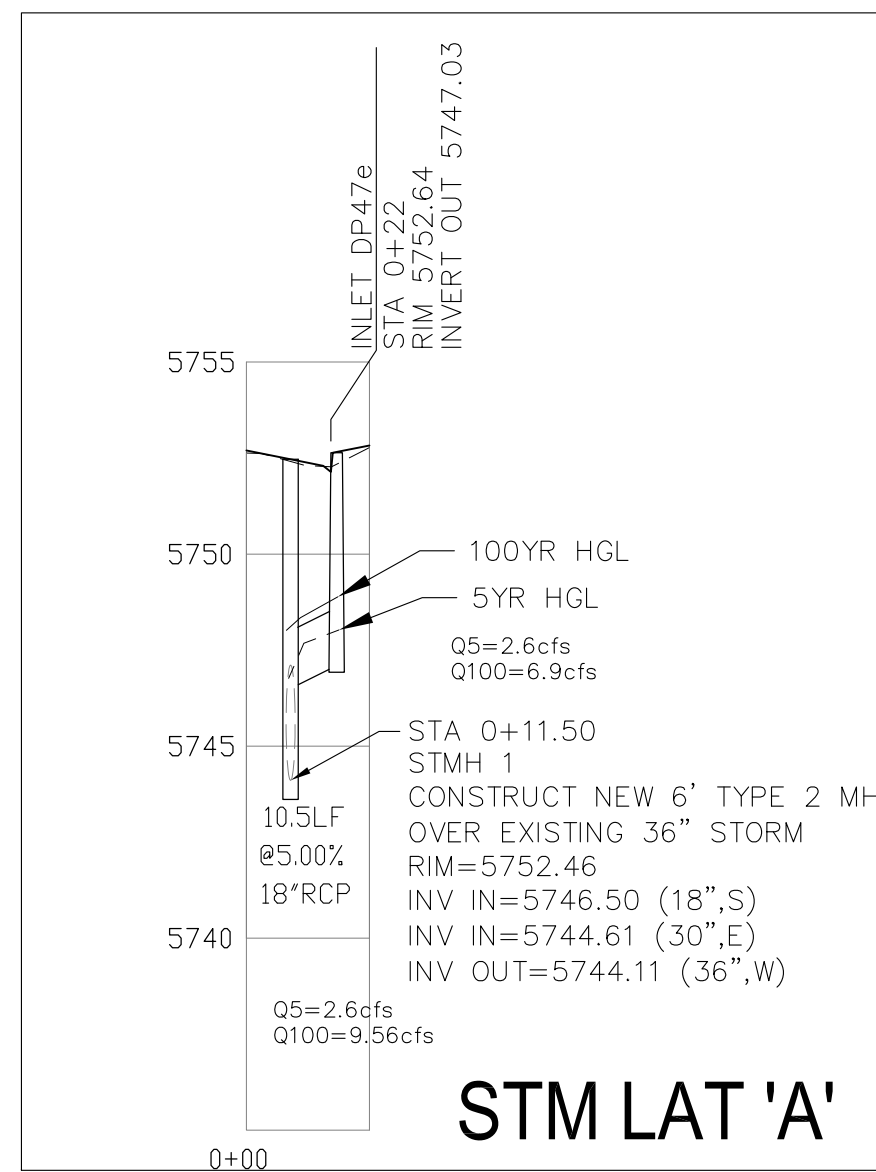
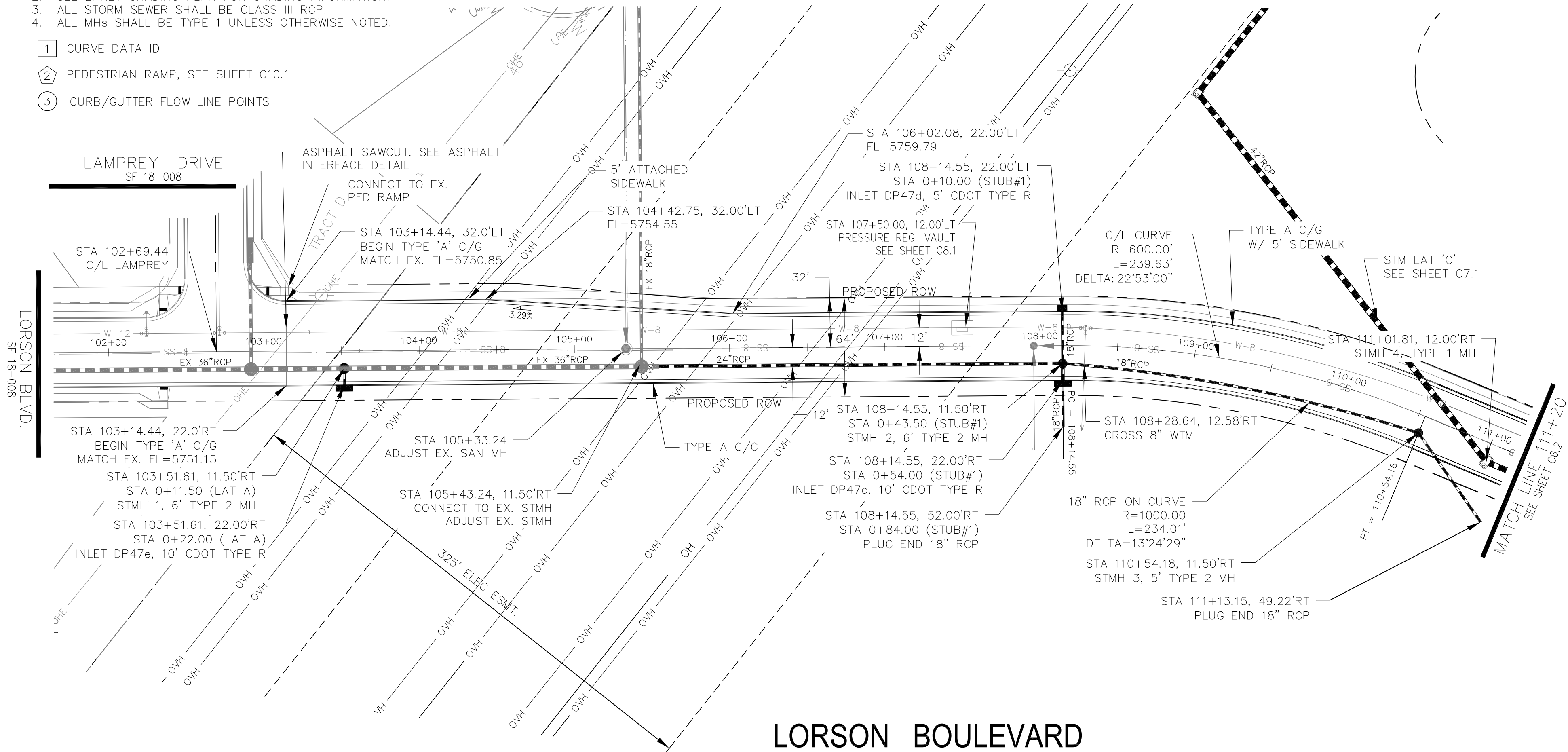




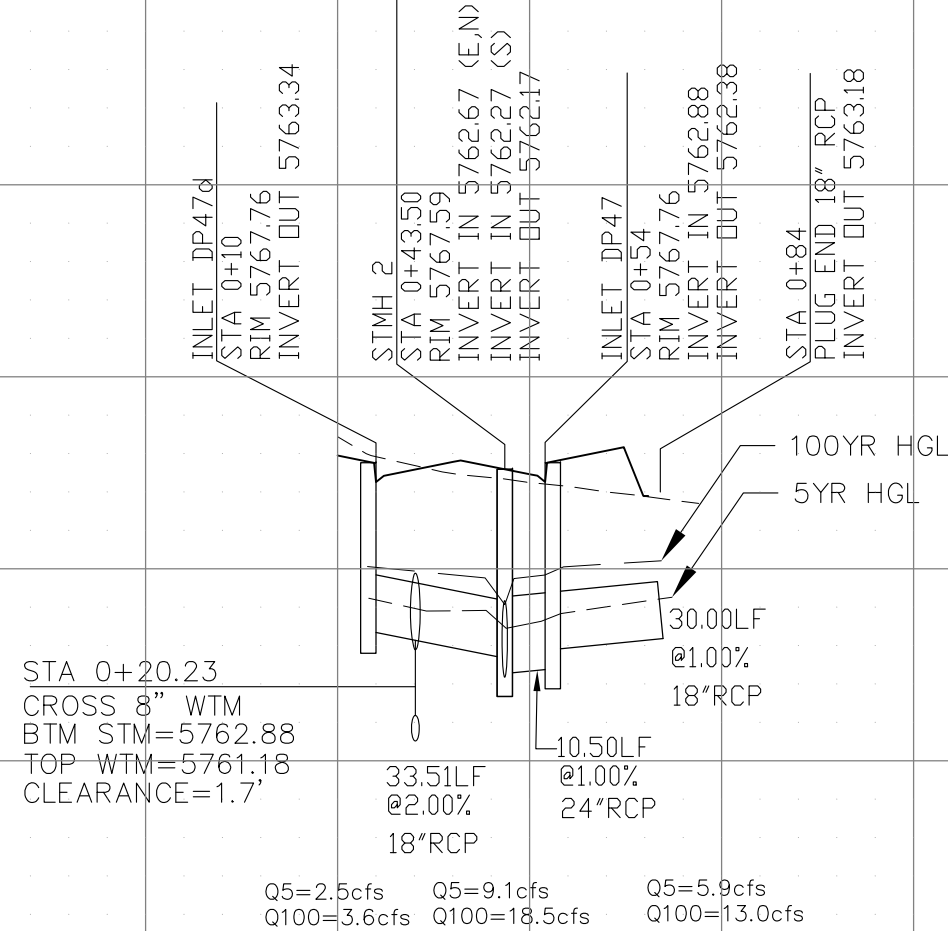
CORE ENGINEERING GROUP 15004 1ST AVENUE S. BURNING WOOD, MO 65506 PHONE: 636-251-1000 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com		DATE 4/20/2018
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD - GRAYLING DR LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO		NO. 1.
DRAWN: RLS DESIGNED: RLS CHECKED: RLS		DESCRIPTION ADD WARNING SIGNS PER COUNTY COMMENTS
LAMPREY DR SIGNING & STRIPING PLAN		PREPARED FOR: LORSON, LLC 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK
DATE: AUGUST 2, 2020		
PROJECT NO. 100.061		
SHEET NUMBER C5.5		
TOTAL SHEETS: 58		

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS



UTILITY STUB #1



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
SUITE 100  
DENVER, CO 80202  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg1.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION

PREPARED FOR: LORSON, LLC

212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

LORSON BOULEVARD

STA 103+00 TO STA 111+20

DATE:

AUG 2, 2020

PROJECT NO.

100.061

SHEET NUMBER

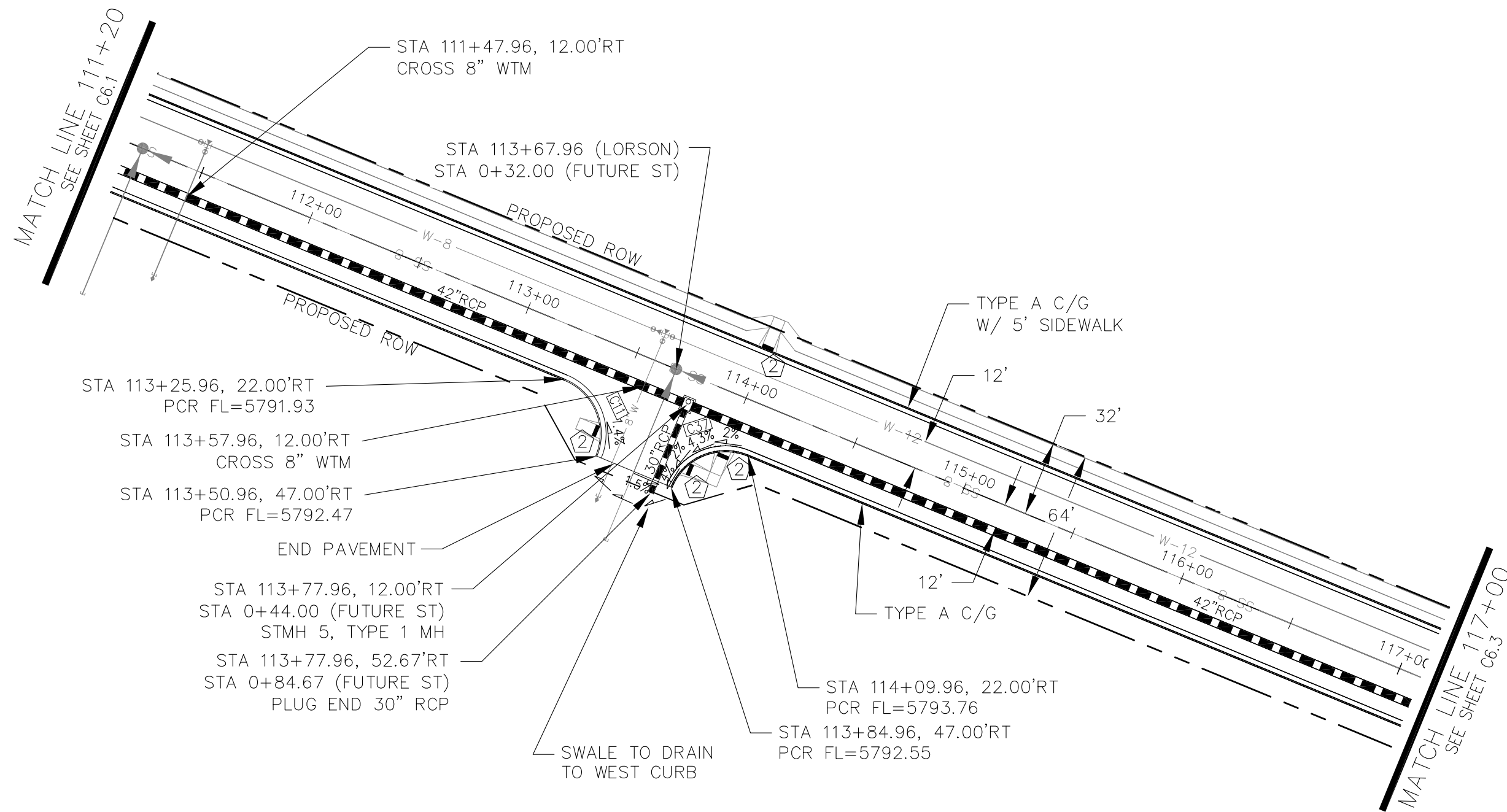
C6.1

TOTAL SHEETS: 58

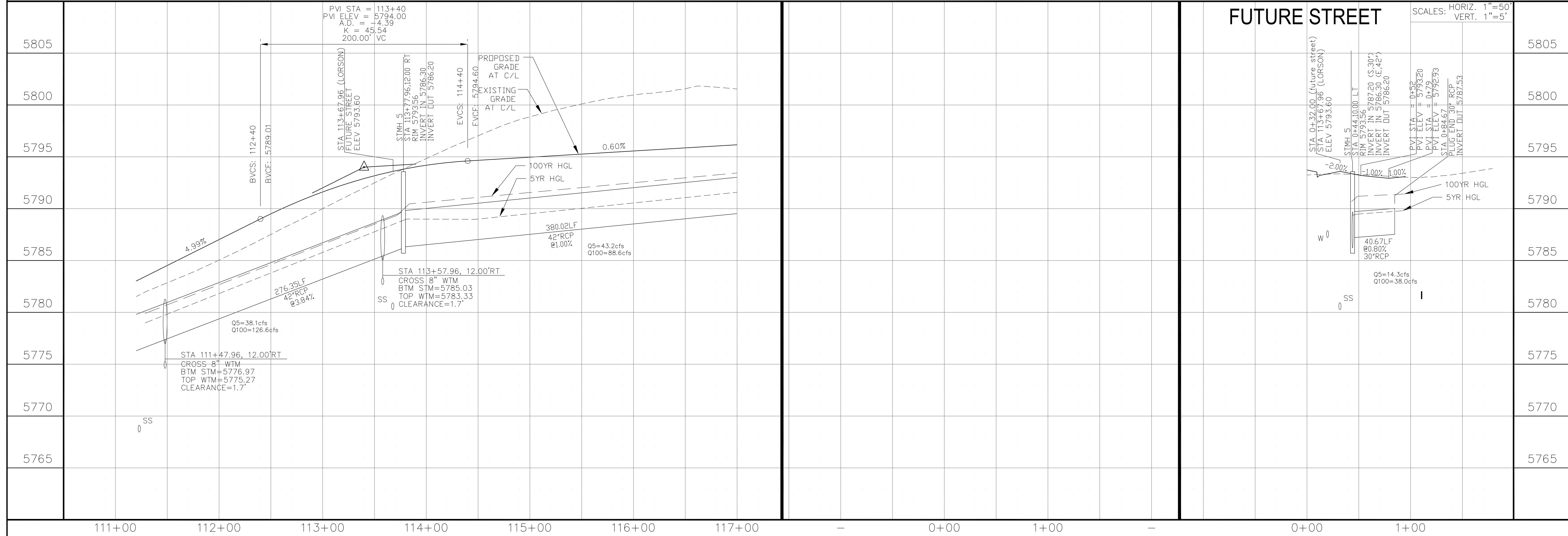
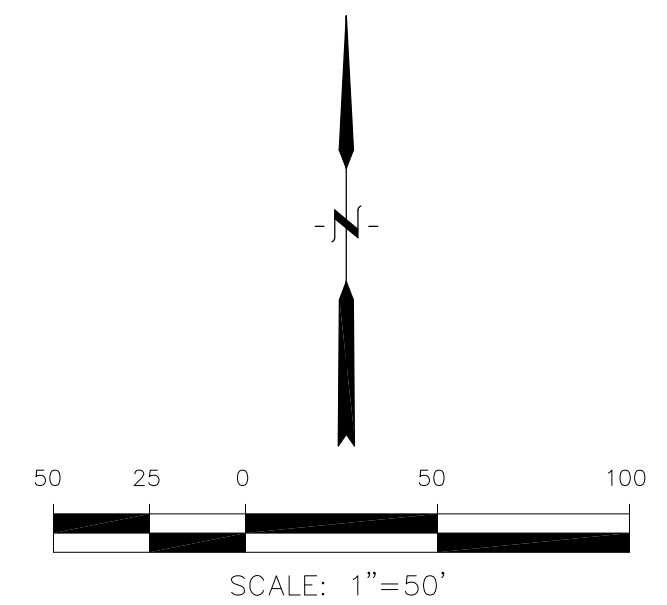
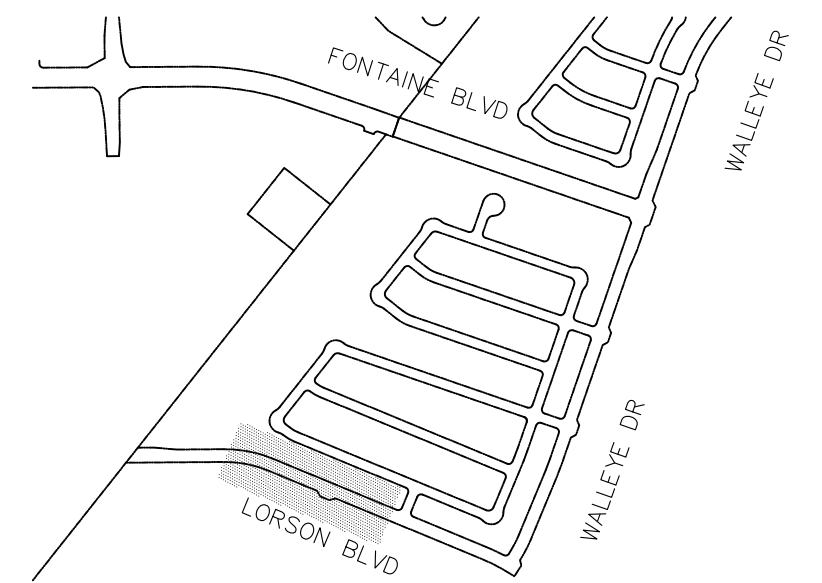
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
3. ALL STORM SEWER SHALL BE CLASS III RCP.
4. ALL MHs SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID  
2 PEDESTRIAN RAMP, SEE SHEET C10.1  
3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C11	39.27'	25.00	90°00'00"
C37	39.27'	25.00	90°00'00"



LORSON BOULEVARD



STREET & STORM SEWER PLAN/PROFILE  
LORSON BOULEVARD  
STA 111+20 TO STA 117+00

DATE:  
AUG 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C6.2

TOTAL SHEETS: 58

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 761.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cog1.com

ON	DATE
PREPARED FOR: <b>LORSON, LLC</b> 212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903	

NO.	DESCR.

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 FONTAINE BLVD - GRAY ING DR

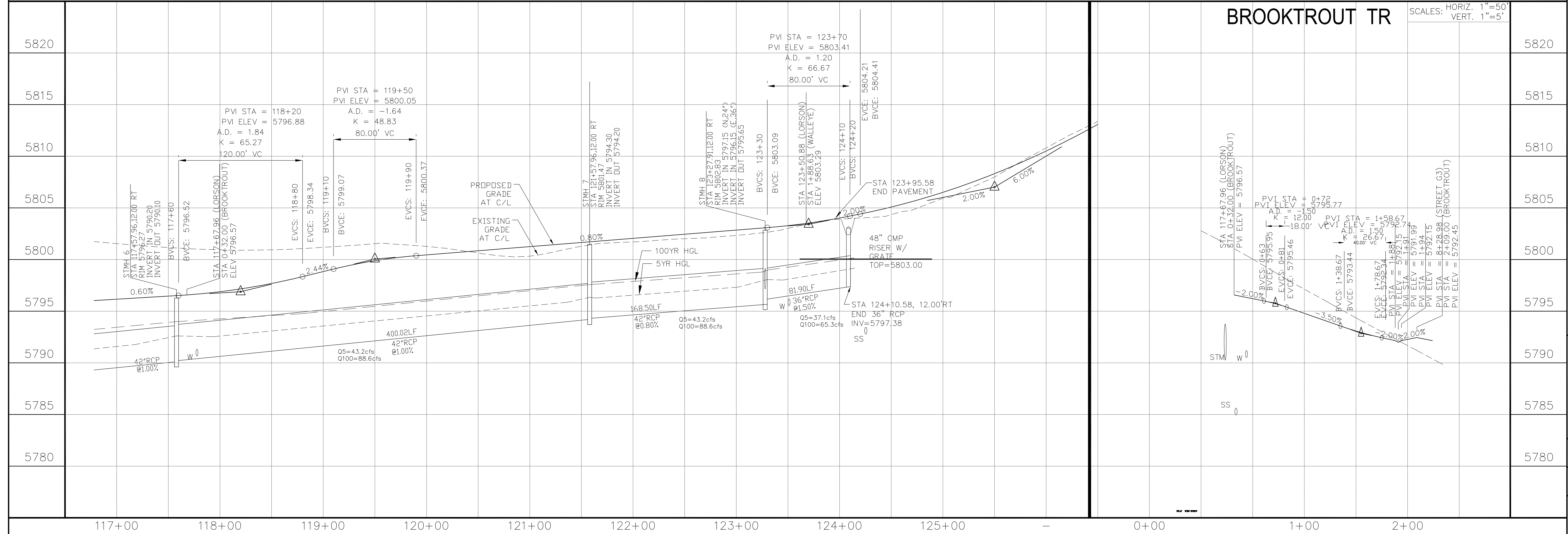
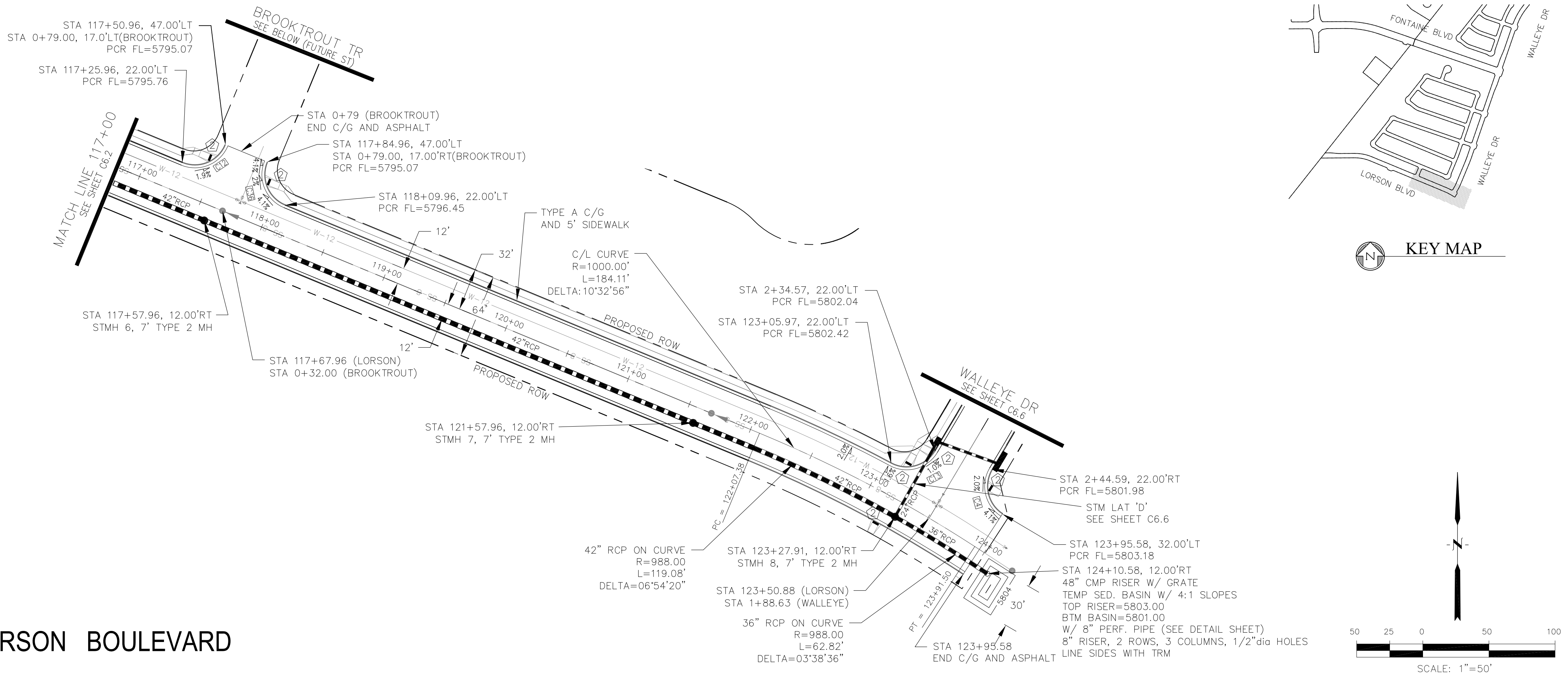
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS



1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
3. ALL STORM SEWER SHALL BE CLASS III RCP.
4. ALL MHs SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID  
2 PEDESTRIAN RAMP, SEE SHEET C10.1  
3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C4	38.25'	25.00	87°40'22"
C12	39.27'	25.00	90°00'00"
C13	38.15'	25.00	87°25'38"
C36	39.27'	25.00	90°00'00"



PROJECT:		PREPARED FOR:	
THE HILLS COLLECTOR		LORSON, LLC	
STREET CONSTRUCTION		212 N. WAHSATCH AVE. SUITE 301	
FONTAINE BLVD. - GRAYLING DR		COLORADO SPRINGS, COLORADO 80903	
LORSON BLVD - WALLEE DR - LAMPREY DR		(719) 635-3200	
COLORADO SPRINGS, COLORADO		CONTACT: JEFF MARK	
NO.	DESCRIPTION	DATE	

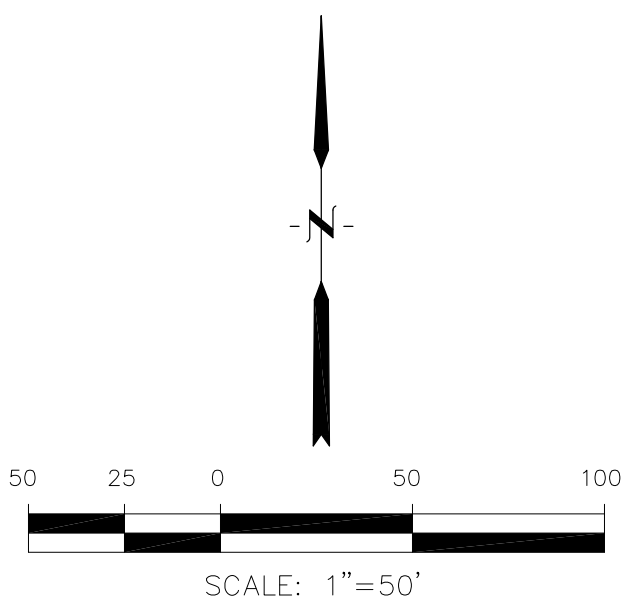
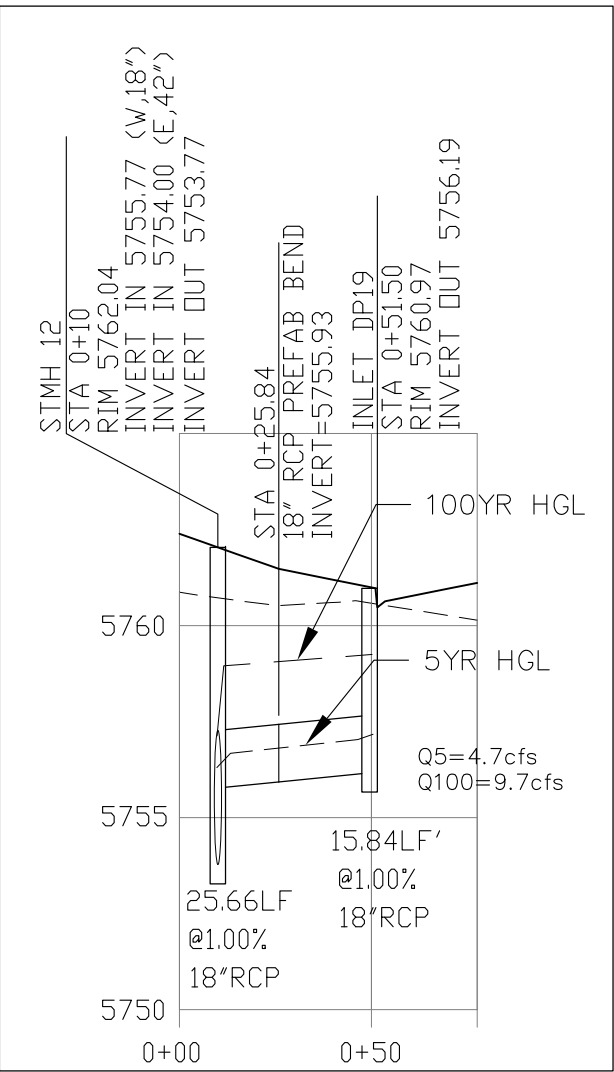
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

STREET & STORM SEWER PLAN/PROFILE  
LORSON BOULEVARD  
STA 117+00 TO STA 124+25

DATE: AUG 2, 2020	
PROJECT NO. 100.061	
SHEET NUMBER <b>C6.3</b>	
TOTAL SHEETS: 58	



- 1 CURVE DATA ID  
2 PEDESTRIAN RAMP, SEE SHEET C10.1  
3 CURB/GUTTER FLOW LINE POINTS

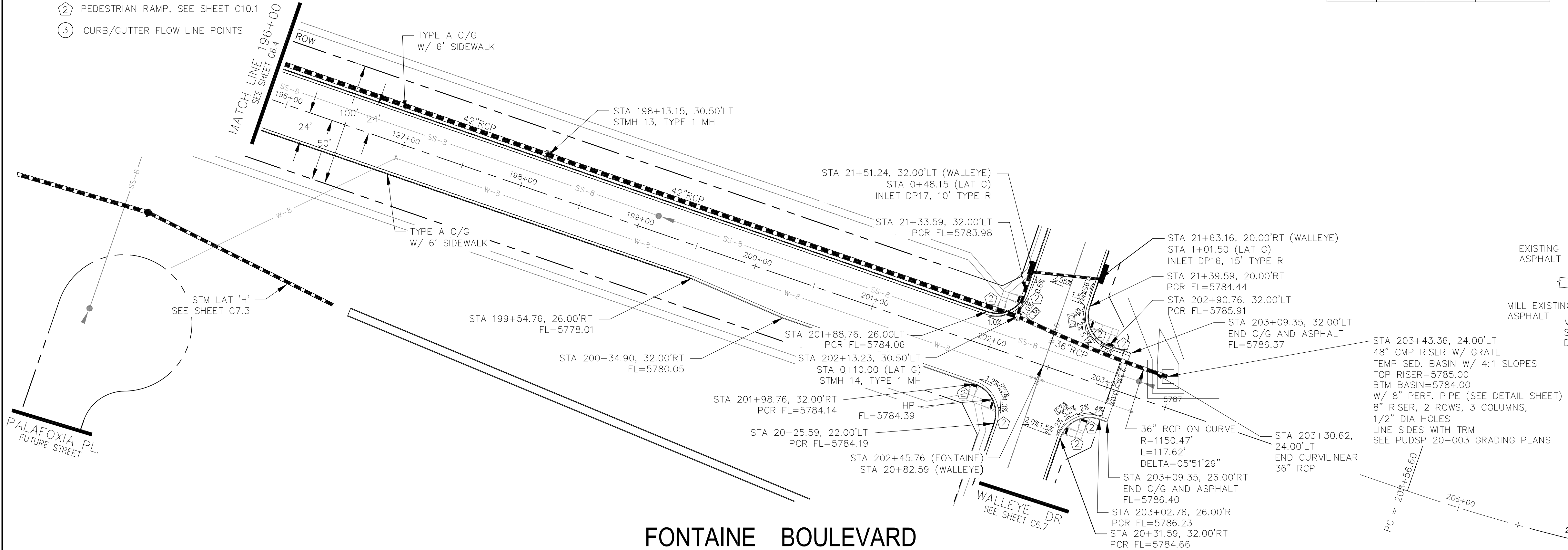
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<p><b>STREET &amp; STORM SEWER PLAN/PROFILE</b></p> <p><b>FONTAINE BOULEVARD</b></p> <p><b>STA 189+16 TO STA 196+00</b></p>		<p><b>CORE</b></p> <p><b>ENGINEERING GROUP</b></p> <p>15004 1ST AVENUE S. BURNING WOODS, MO 63306 PHONE: 636-947-1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@eg1.com</p>	
<p>DATE: AUG 2, 2020</p>		<p>PROJECT NO. 100.061</p>	
<p>SHEET NUMBER <b>C6.4</b></p>		<p>TOTAL SHEETS: 58</p>	



- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

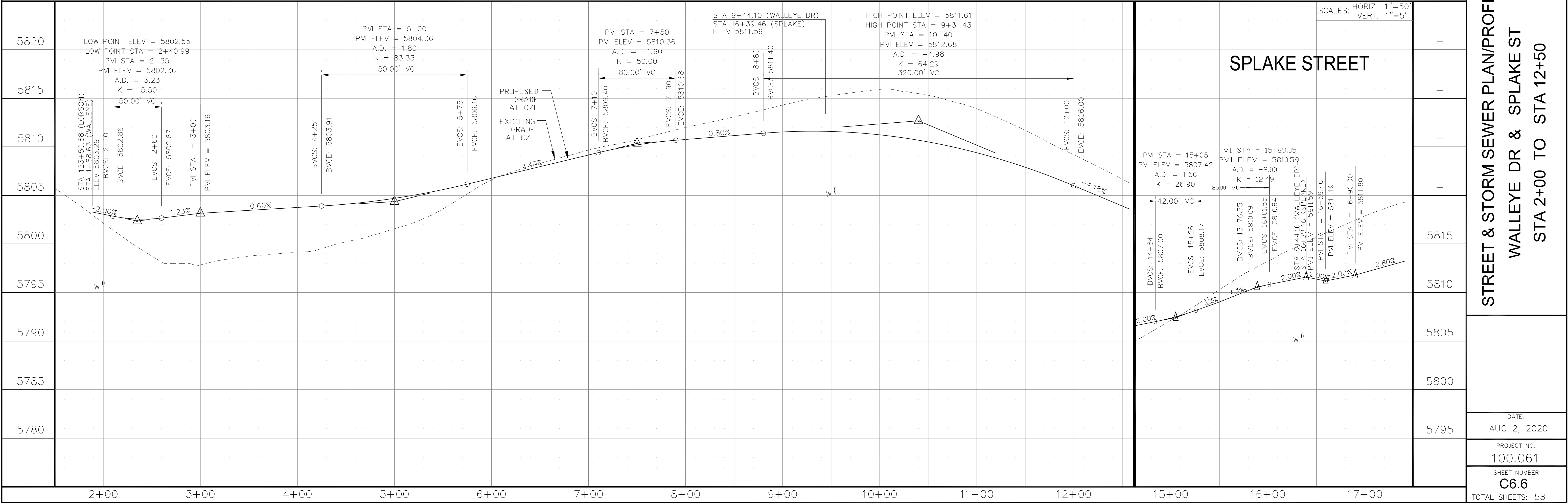
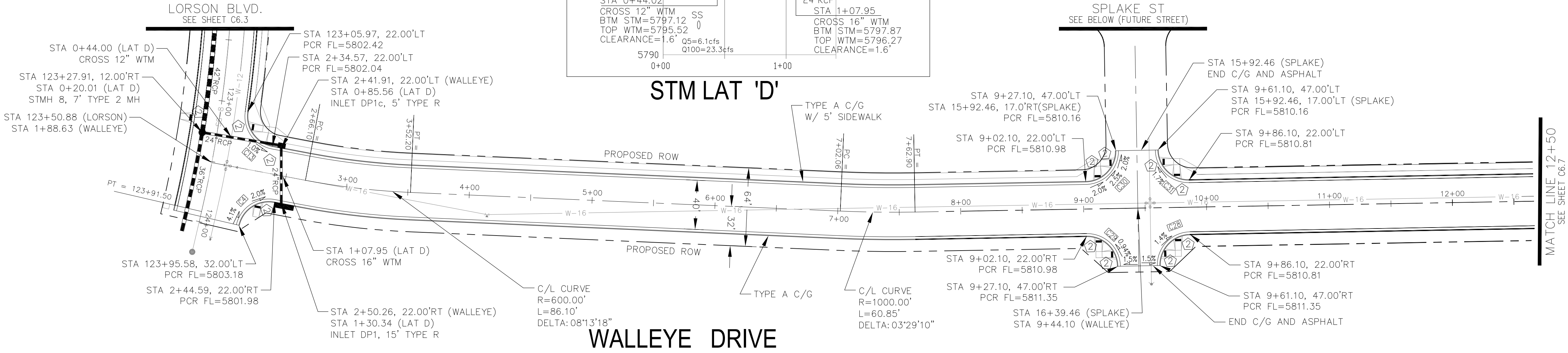
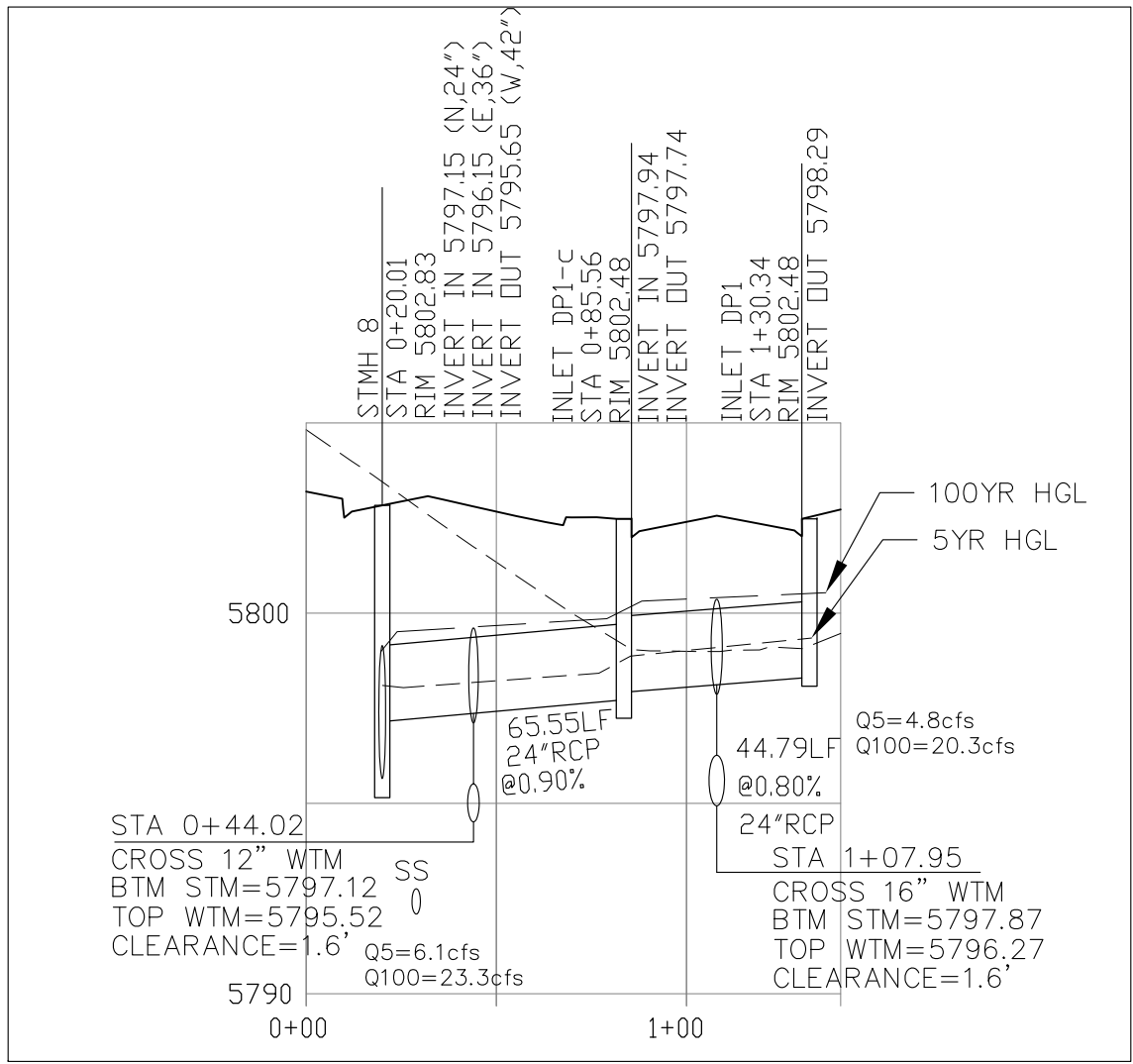
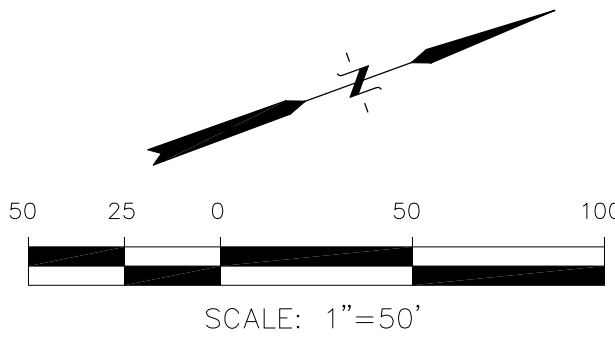
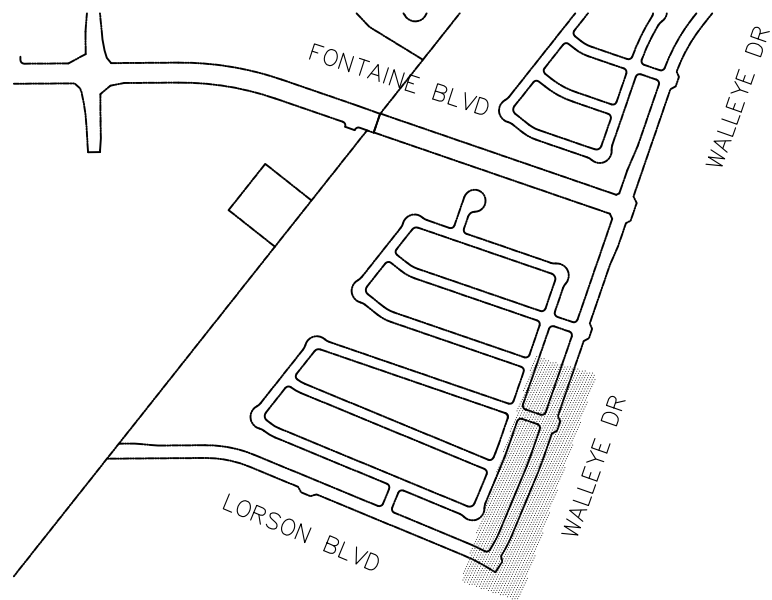




- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C4	38.25'	25.00	87°40'22"
C13	38.15'	25.00	87°25'38"
C28	39.27'	25.00	90°00'00"
C29	39.27'	25.00	90°00'00"
C30	39.27'	25.00	90°00'00"
C31	39.27'	25.00	90°00'00"



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

WALLEYE DR & SPLAKE ST

STA 2+00 TO STA 12+50

DATE:

AUG 2, 2020

PROJECT NO.

100.061

SHEET NUMBER

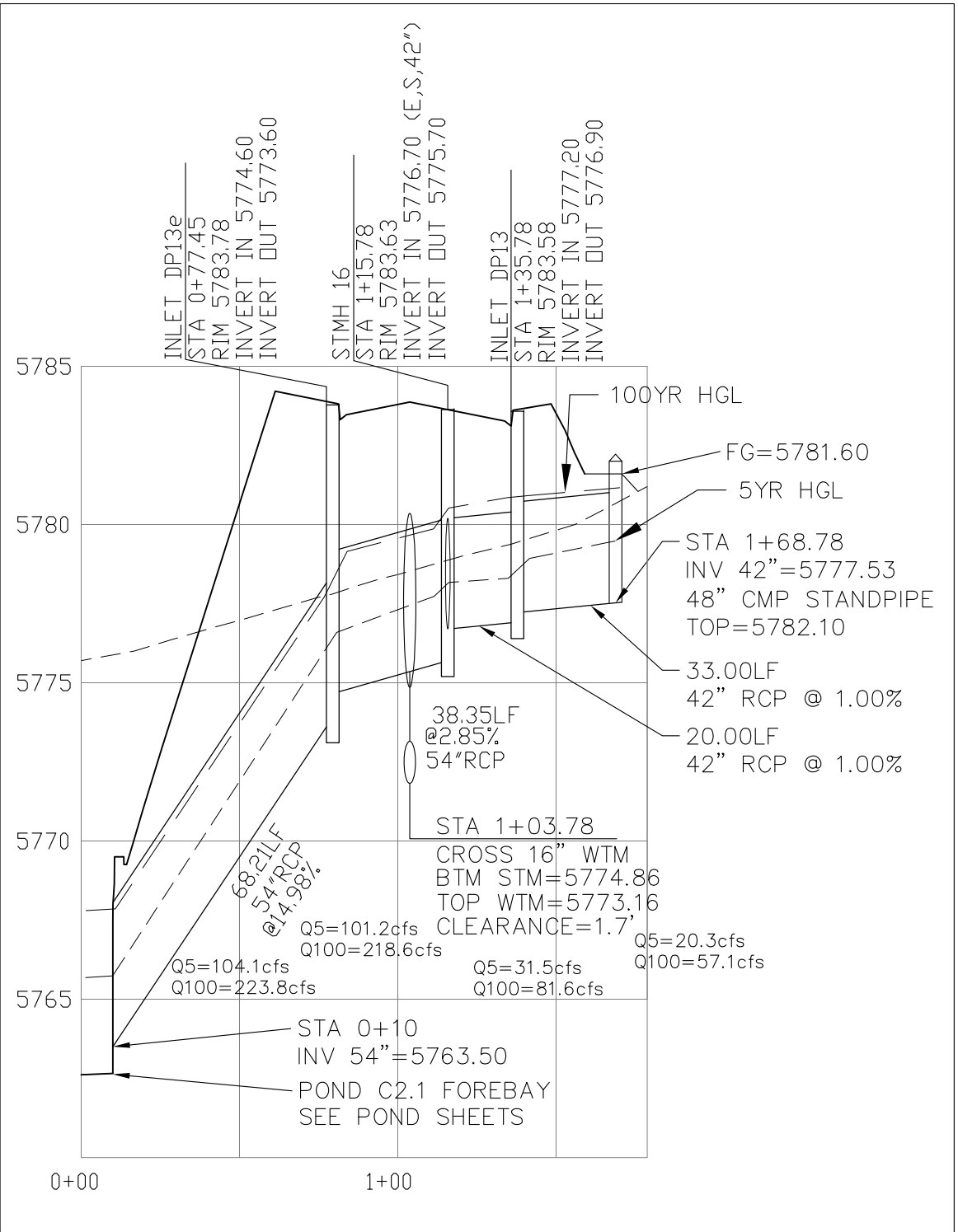
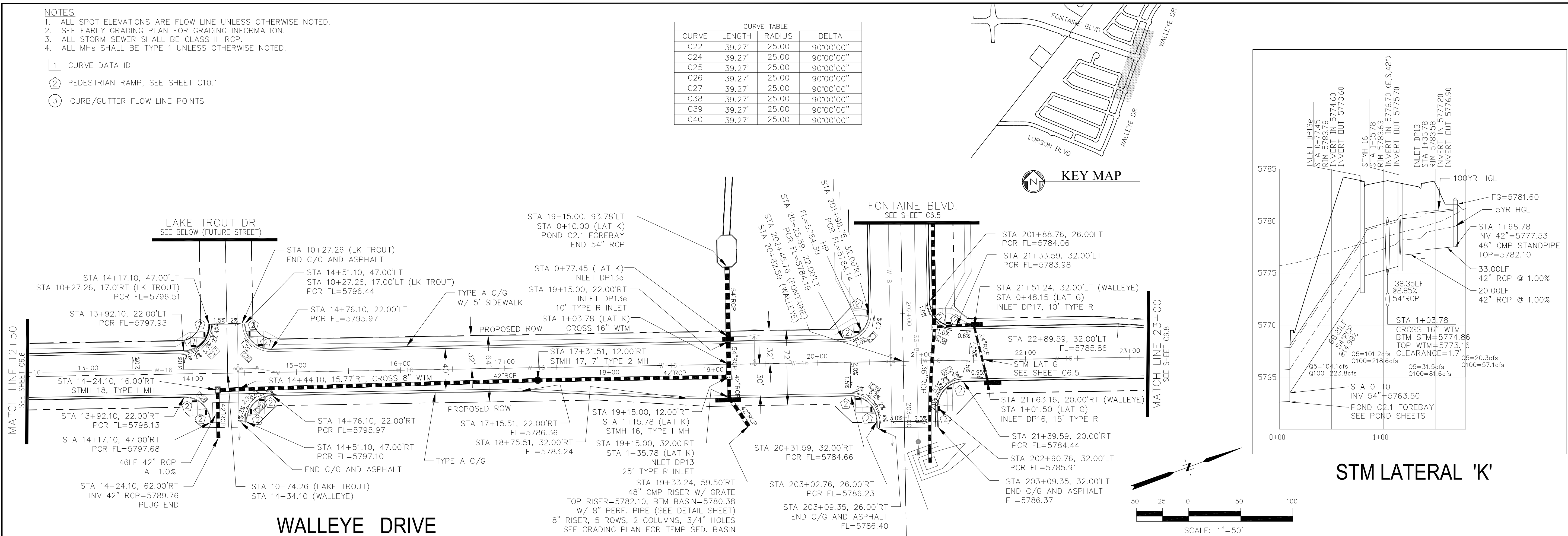
C6.6

TOTAL SHEETS: 58

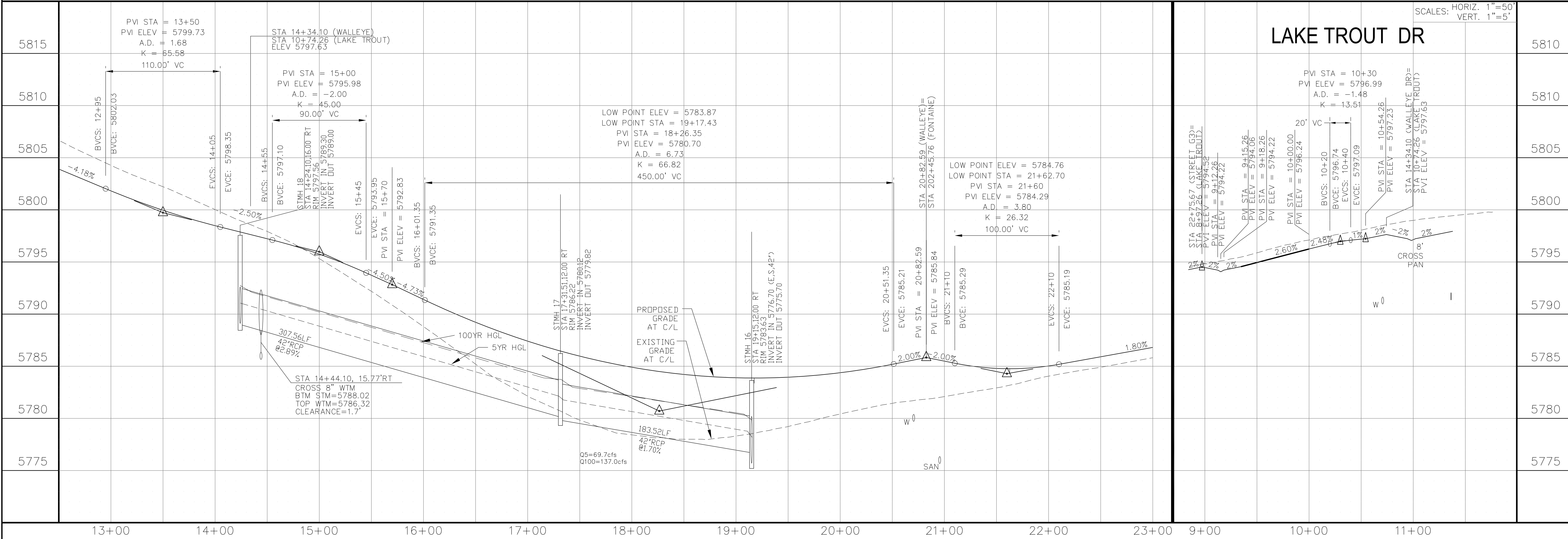
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C22	39.27'	25.00	90°00'00"
C24	39.27'	25.00	90°00'00"
C25	39.27'	25.00	90°00'00"
C26	39.27'	25.00	90°00'00"
C27	39.27'	25.00	90°00'00"
C38	39.27'	25.00	90°00'00"
C39	39.27'	25.00	90°00'00"
C40	39.27'	25.00	90°00'00"



STM LATERAL 'K'



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg.com

DATE

NO.

DESCRIPTION

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION

PREPARED FOR: LORSON, LLC

212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

WALLEYE DR & LAKE TROUT DR

STA 12+50 TO STA 23+00

DATE:

AUG 2, 2020

PROJECT NO.

100.061

SHEET NUMBER

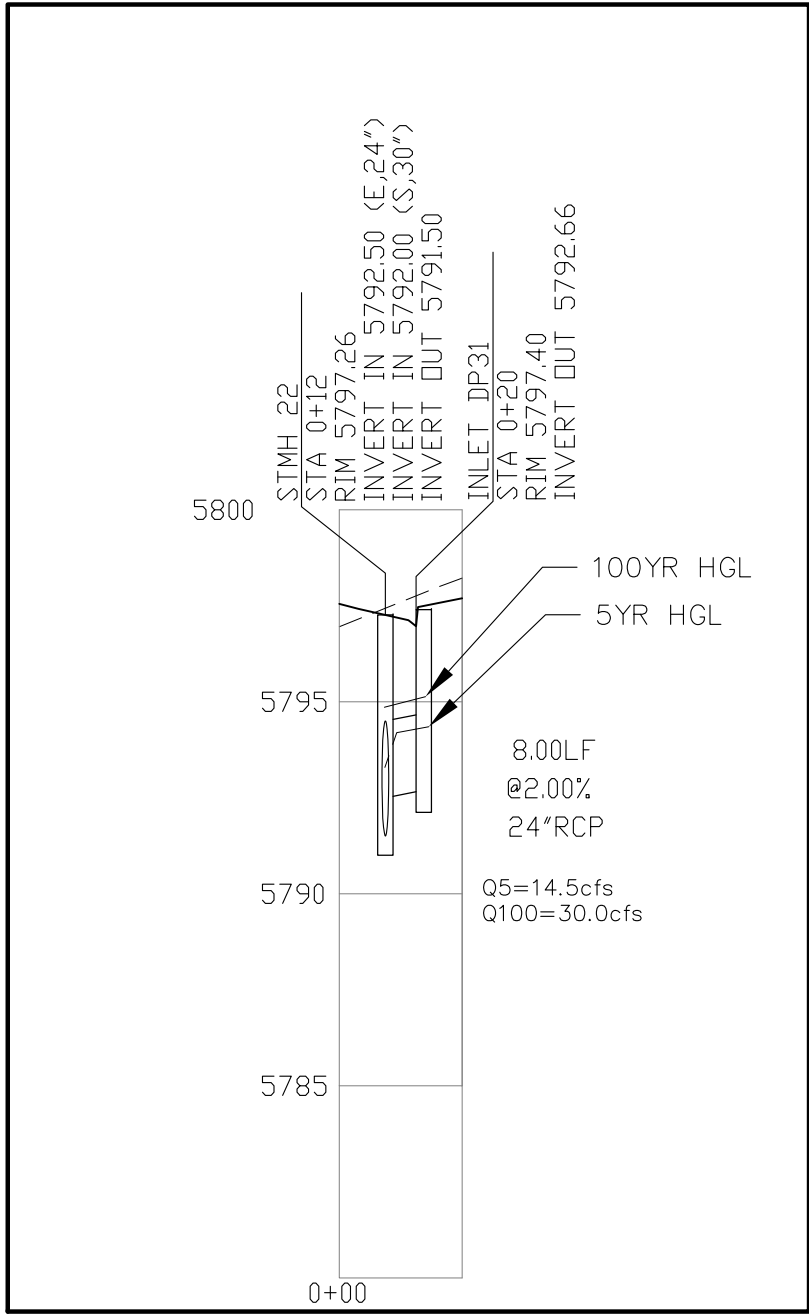
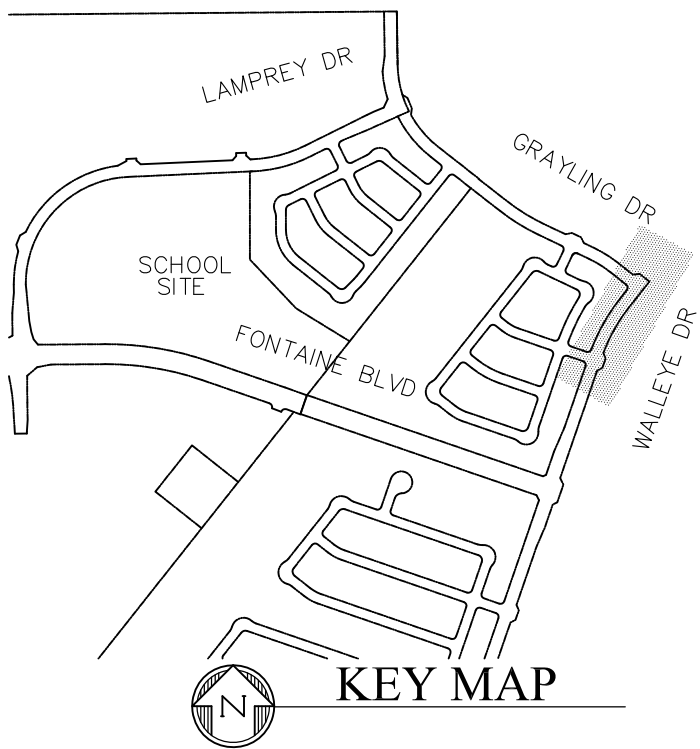
C6.7

TOTAL SHEETS: 58

- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

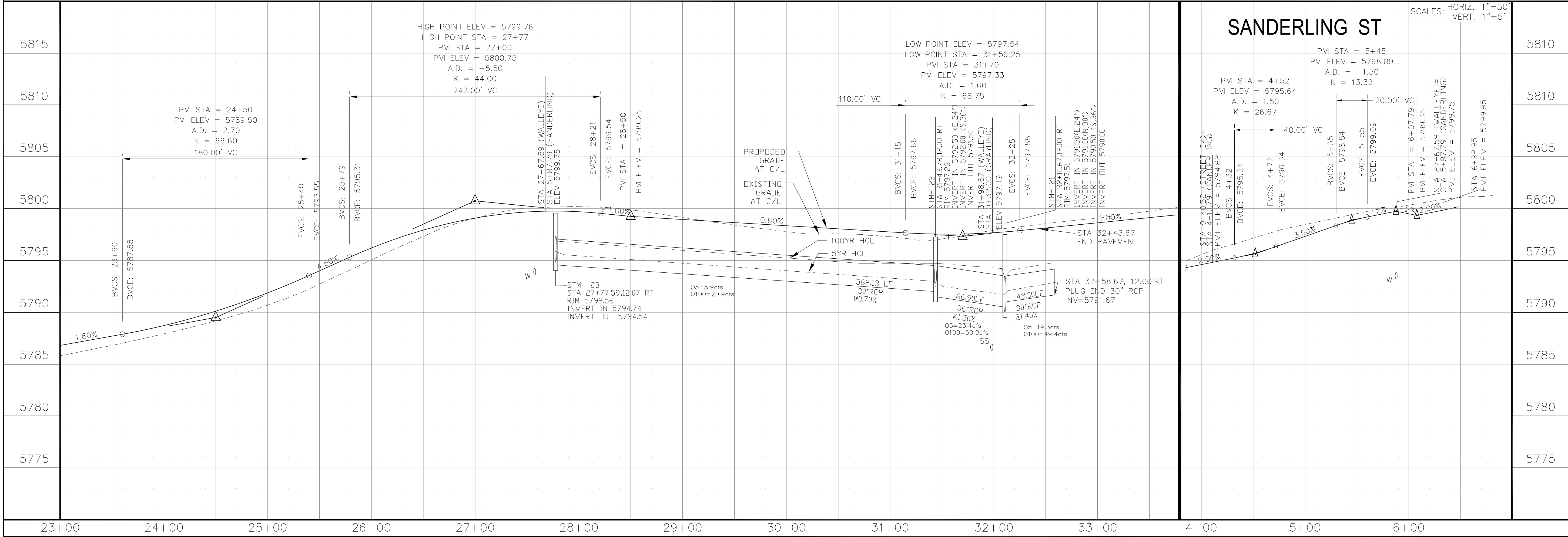
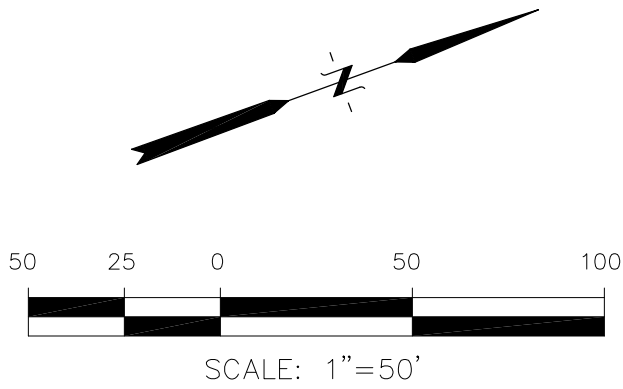
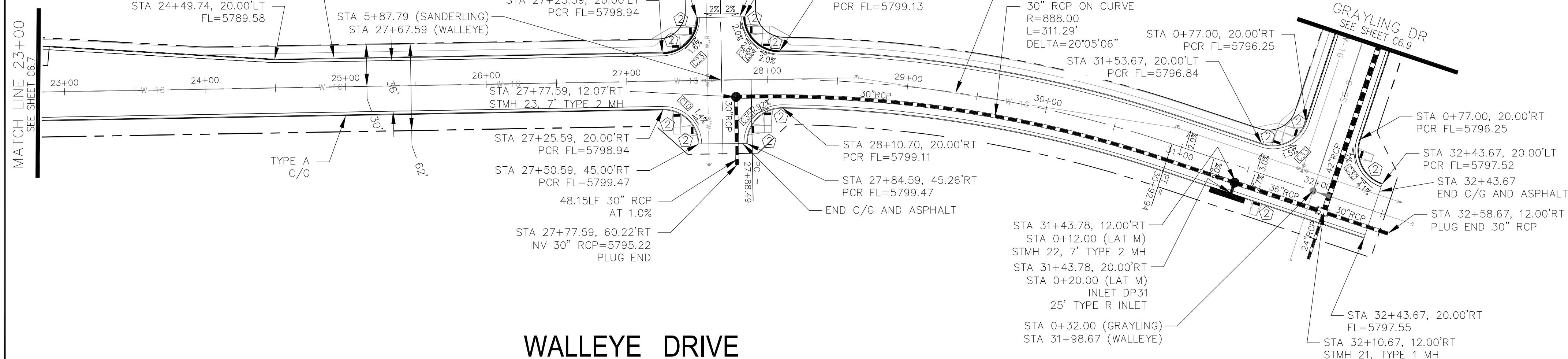
- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C10	39.27'	25.00	90°00'00"
C23	39.27'	25.00	90°00'00"
C32	39.27'	25.00	90°00'00"
C33	39.27'	25.00	90°00'00"
C34	38.71'	25.00	88°43'15"
C35	39.89'	25.00	91°24'50"



STM LATERAL 'M'

WALLEYE DRIVE



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
SUITE 301  
DENVER, CO 80232  
PHONE: 719.576.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg1.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION

PREPARED FOR: LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

WALLEYE DR & SANDERLING ST

STA 23+00 TO STA 32+75

DATE:

AUG 2, 2020

PROJECT NO.

100.061

SHEET NUMBER

C6.8

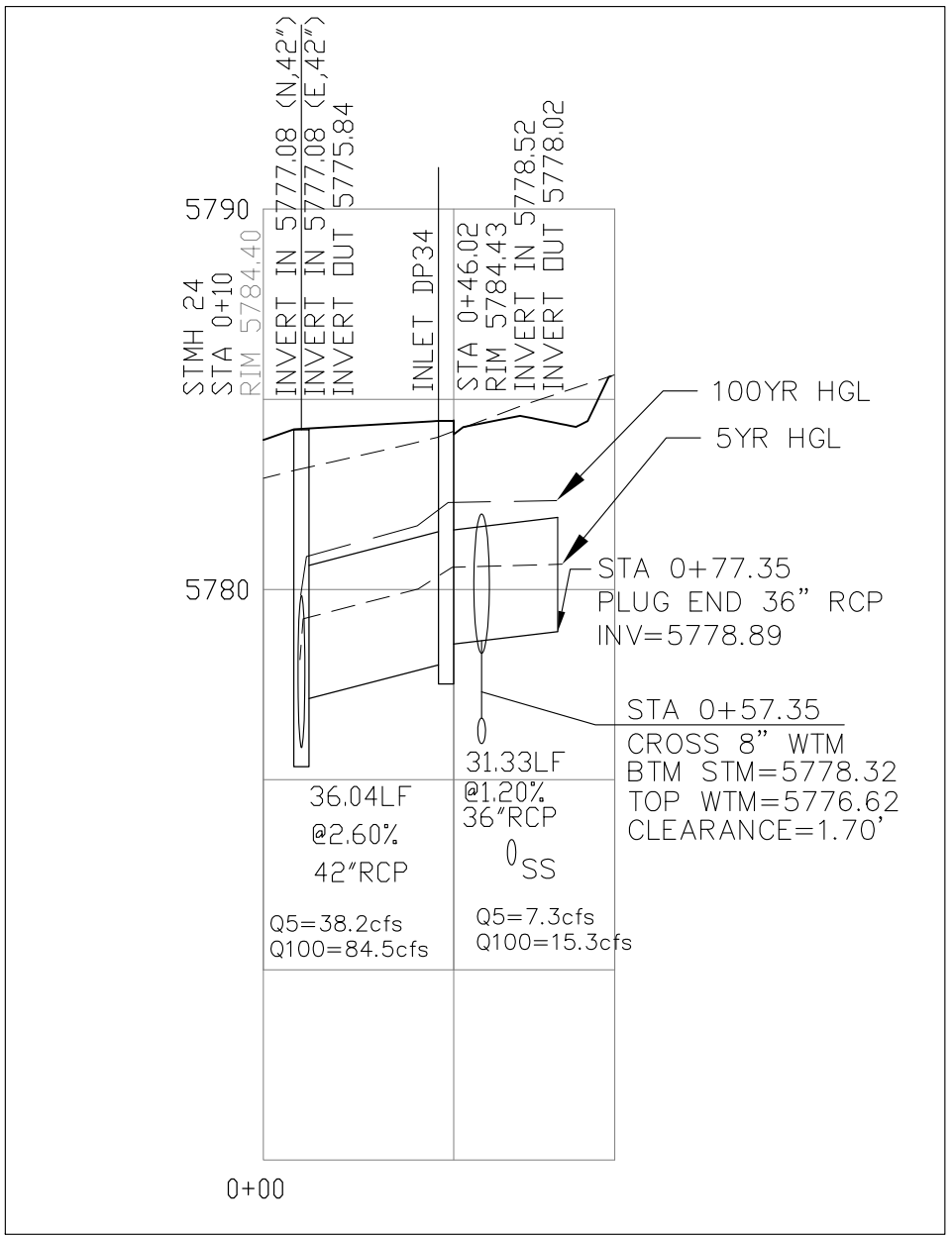
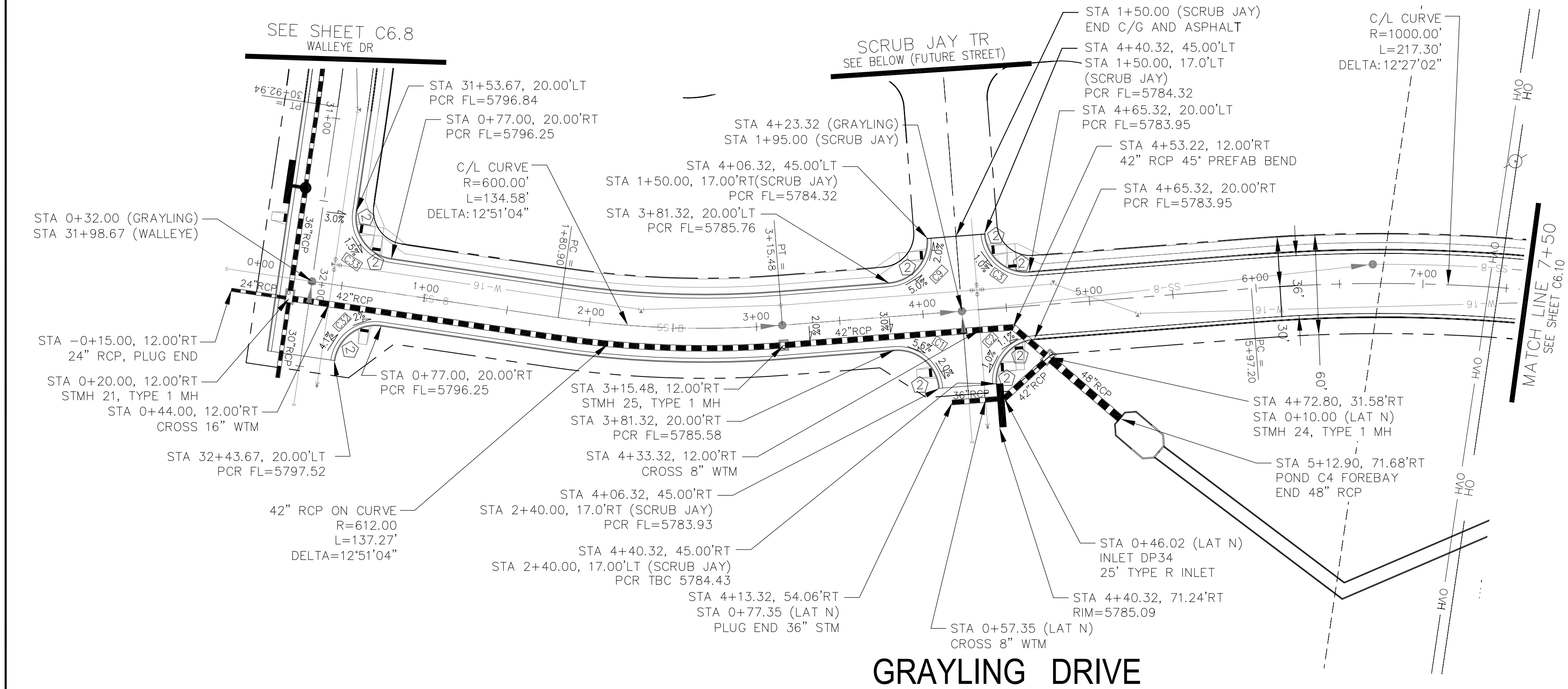
TOTAL SHEETS: 58



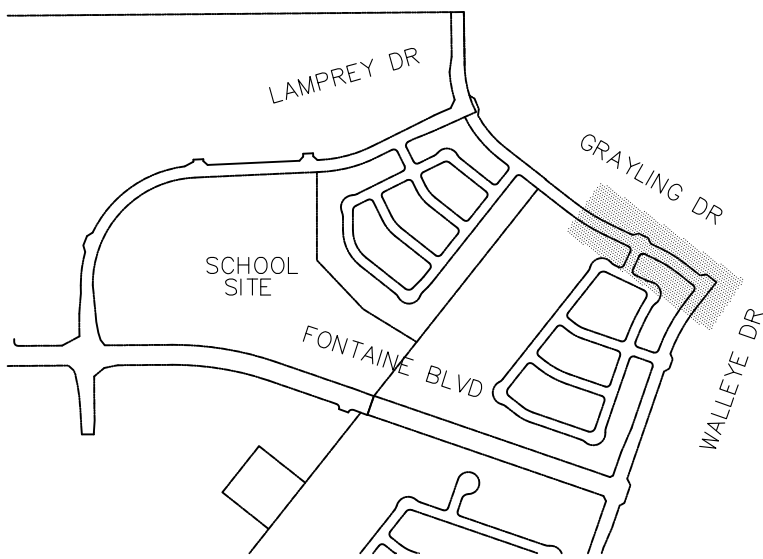
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

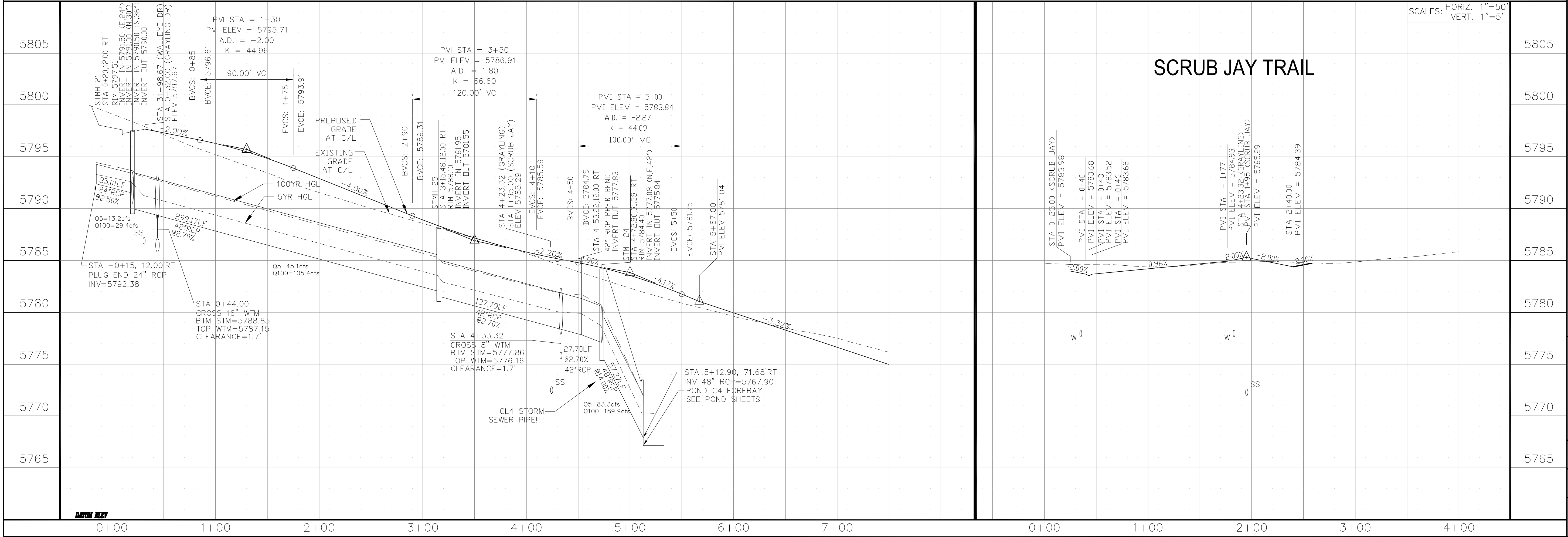
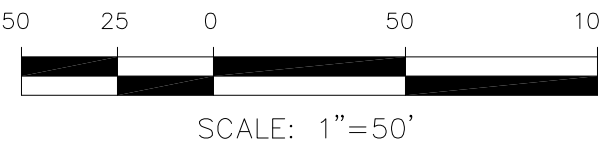
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	39.27'	25.00	90°00'00"
C2	39.27'	25.00	90°00'00"
C3	39.27'	25.00	90°00'00"
C9	39.27'	25.00	90°00'00"
C32	39.27'	25.00	90°00'00"
C33	39.27'	25.00	90°00'00"



STM LAT 'N'



KEY MAP



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT:  
THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

GRAYLING DR & SCRUB JAY TR

STA 0+00 TO STA 7+50

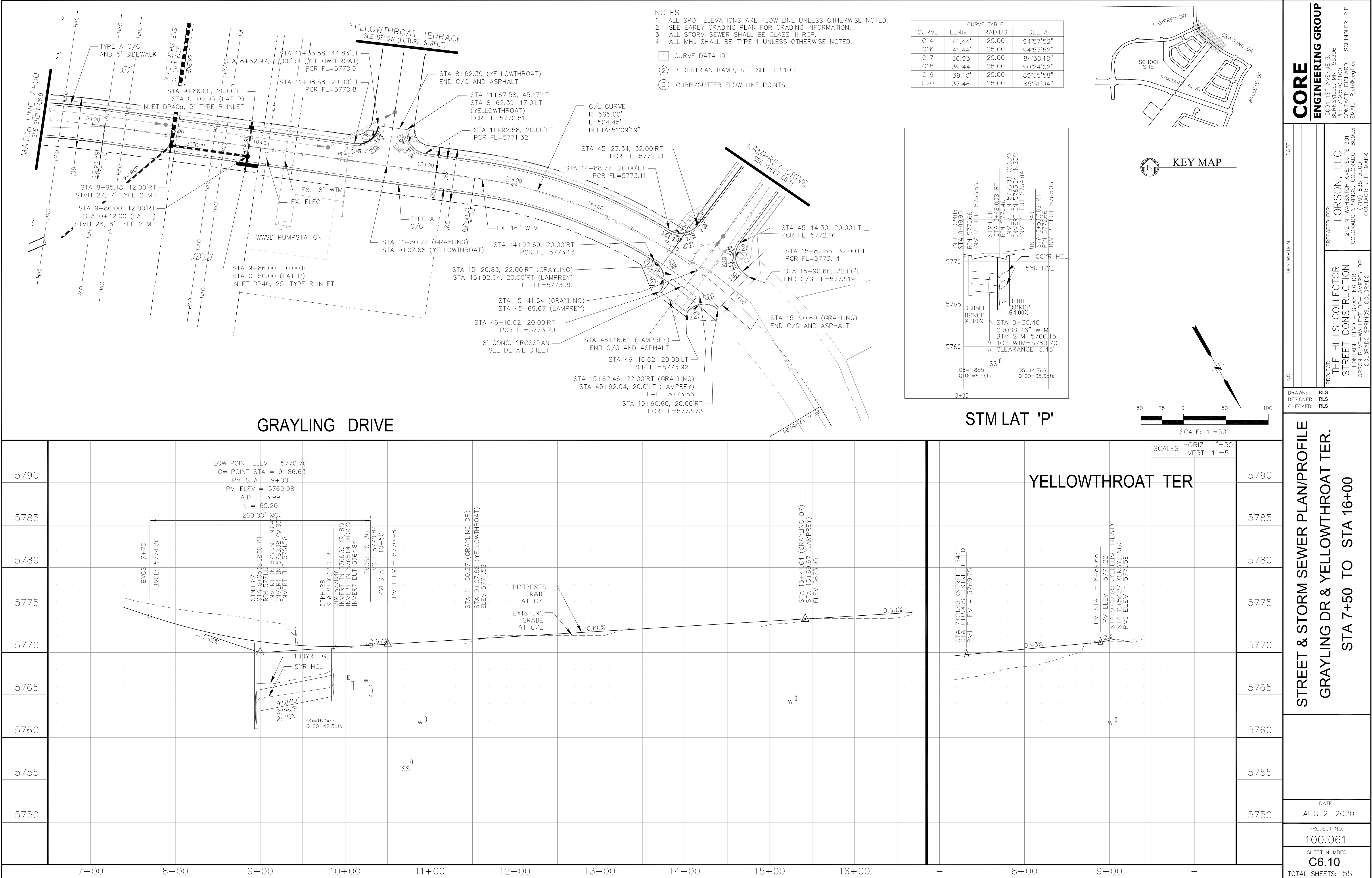
DATE:  
AUG 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C6.9

TOTAL SHEETS: 58

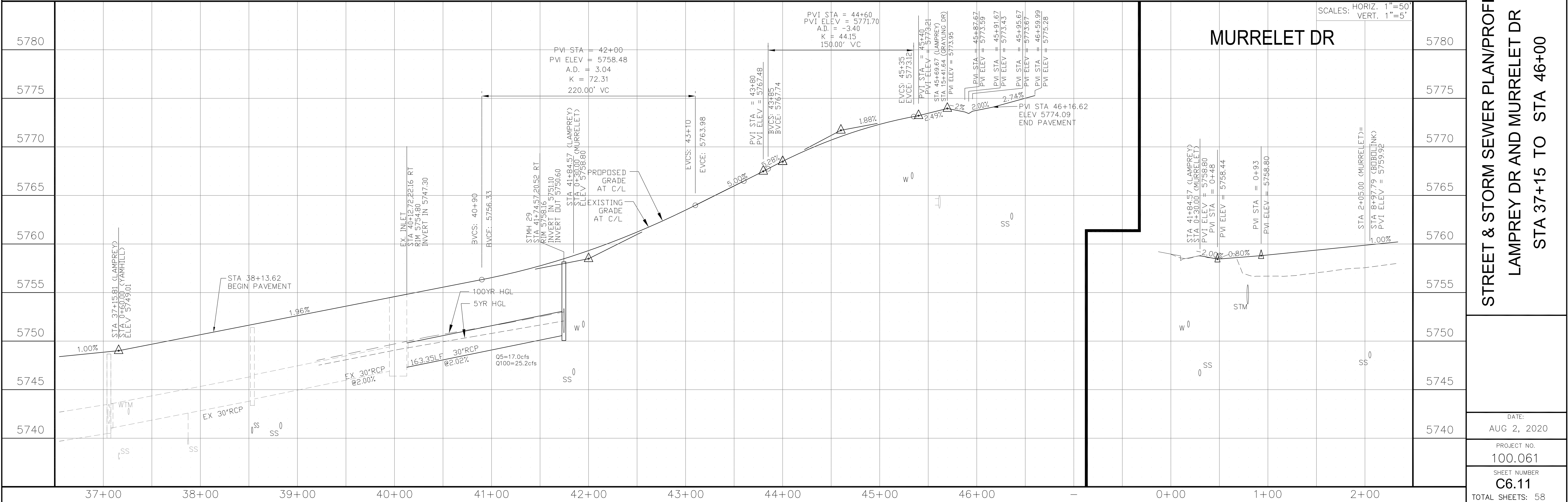
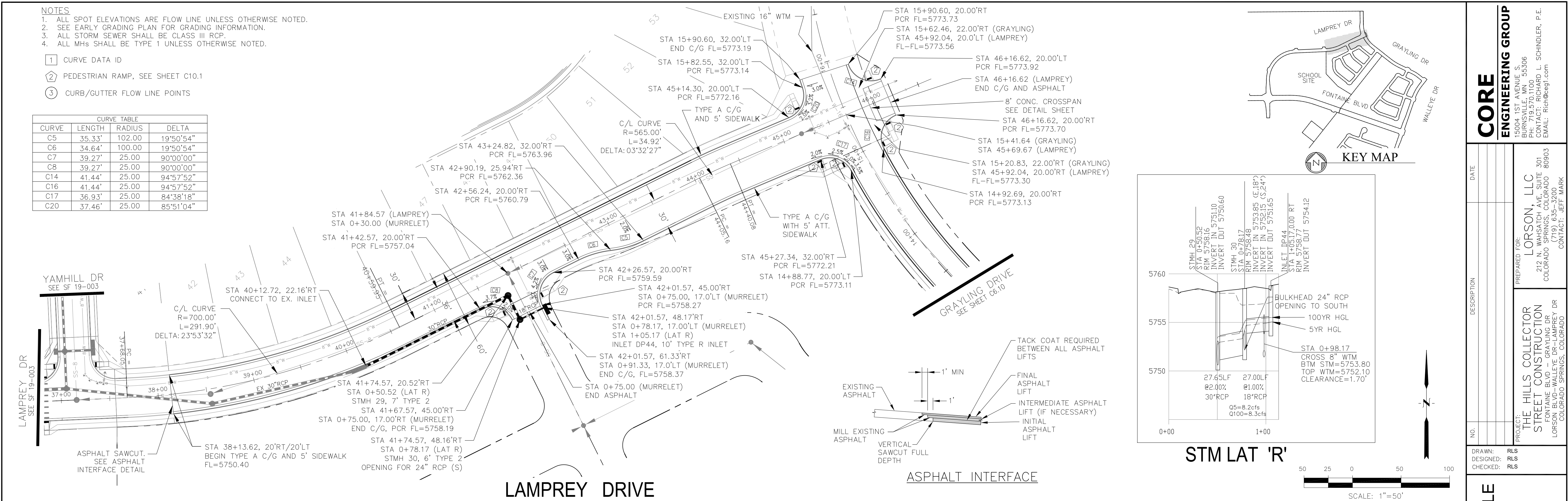




- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C5	35.33'	102.00	19°50'54"
C6	34.64'	100.00	19°50'54"
C7	39.27'	25.00	90°00'00"
C8	39.27'	25.00	90°00'00"
C14	41.44'	25.00	94°57'52"
C16	41.44'	25.00	94°57'52"
C17	36.93'	25.00	84°38'18"
C20	37.46'	25.00	85°51'04"



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
SUITE 100  
DENVER, CO 80202  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION

212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

STREET & STORM SEWER PLAN/PROFILE

LAMPREY DR AND MURRELET DR

STA 37+15 TO STA 46+00

DATE:

AUG 2, 2020

PROJECT NO.

100.061

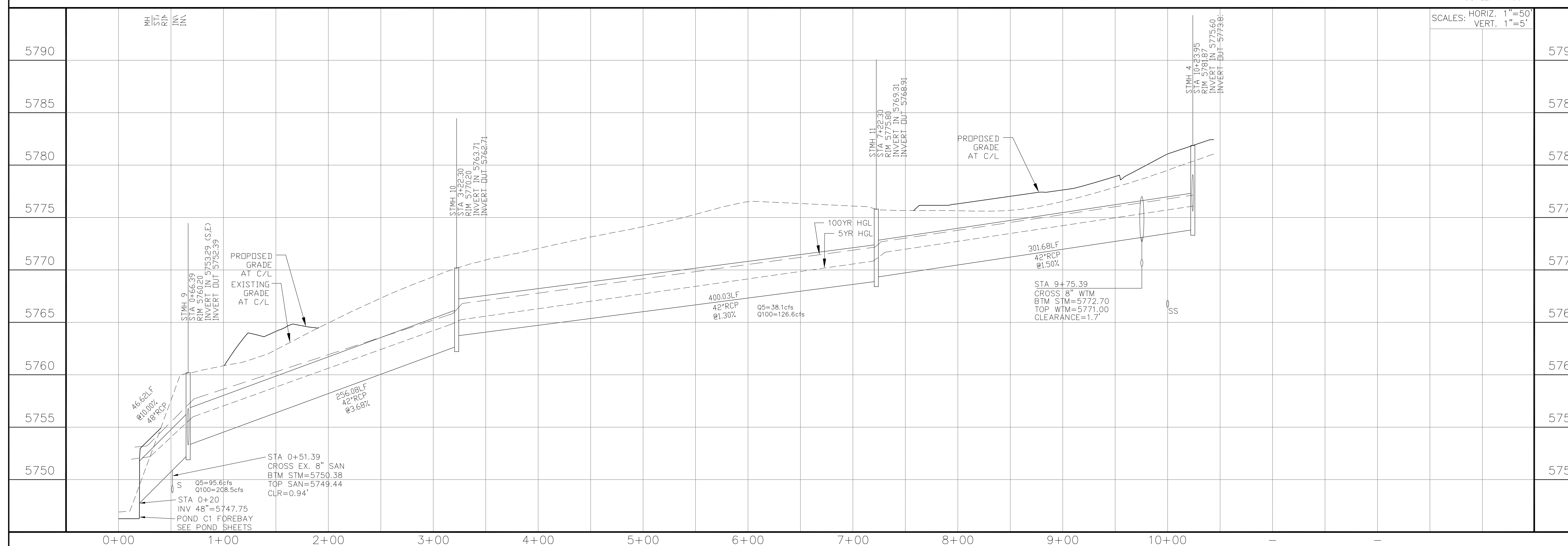
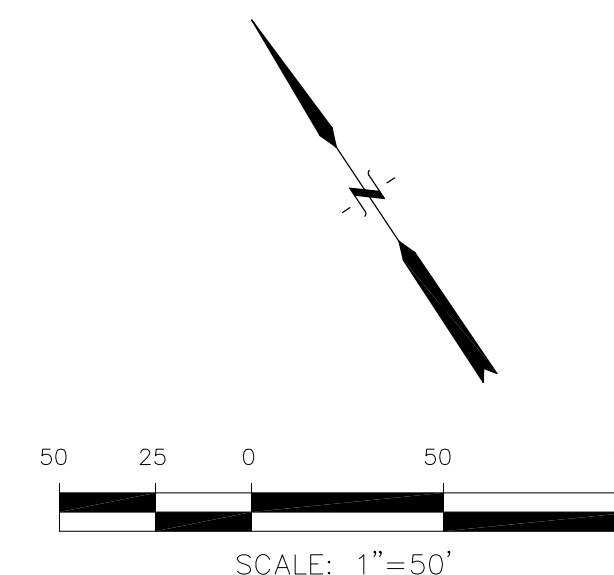
SHEET NUMBER

C6.11

TOTAL SHEETS: 58



- 1 CURVE DATA ID  
2 PEDESTRIAN RAMP, SEE SHEET C10.1  
3 CURB/GUTTER FLOW LINE POINTS

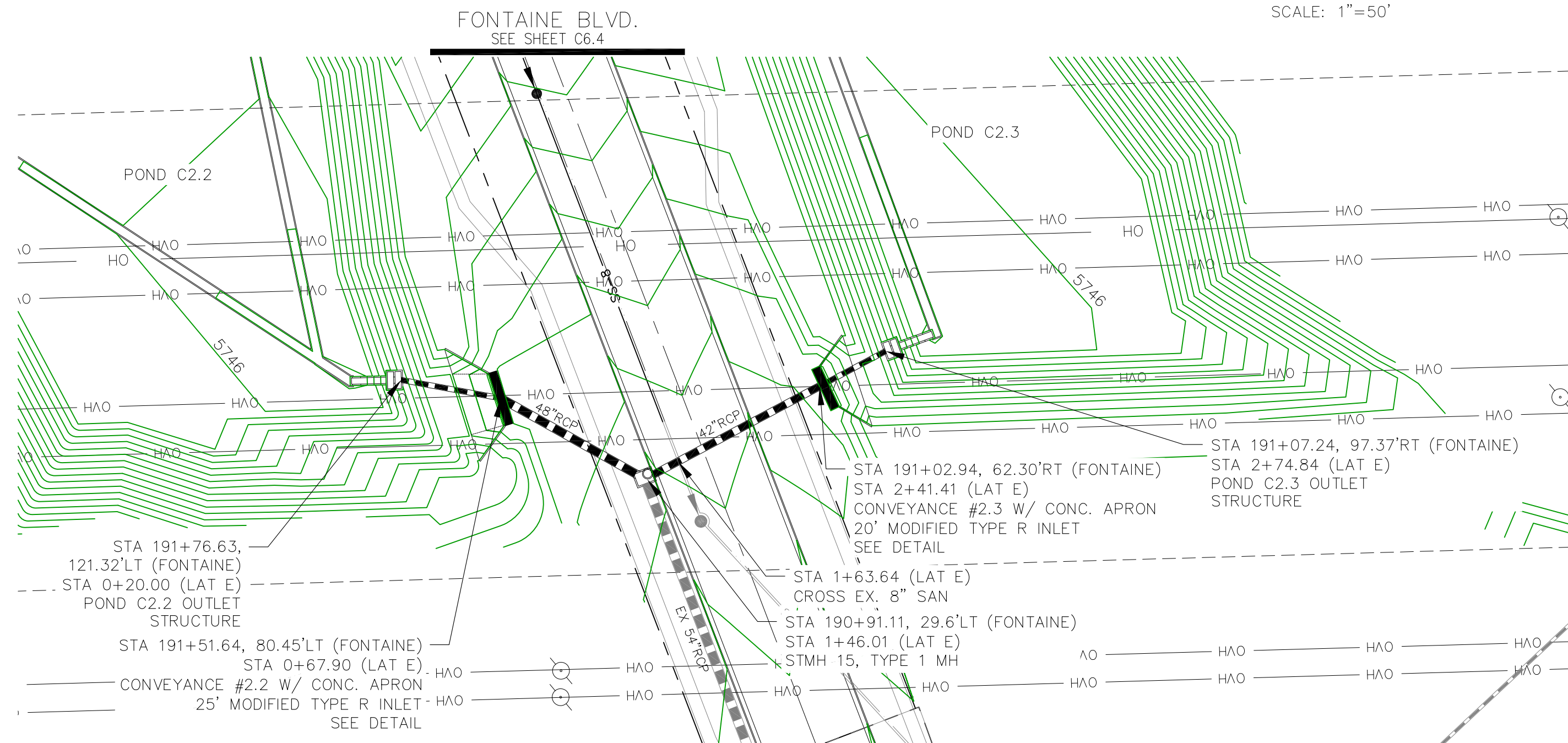
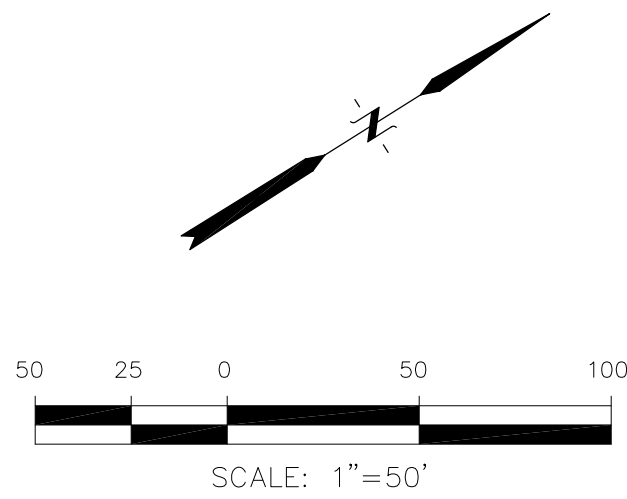


STREET & STORM SEWER PLAN/PROFILE		DATE: AUGUST 2, 2020	
STORM LATERAL 'C'		PROJECT NO. 100.061	
-		SHEET NUMBER C7.1	
		TOTAL SHEETS: 58	



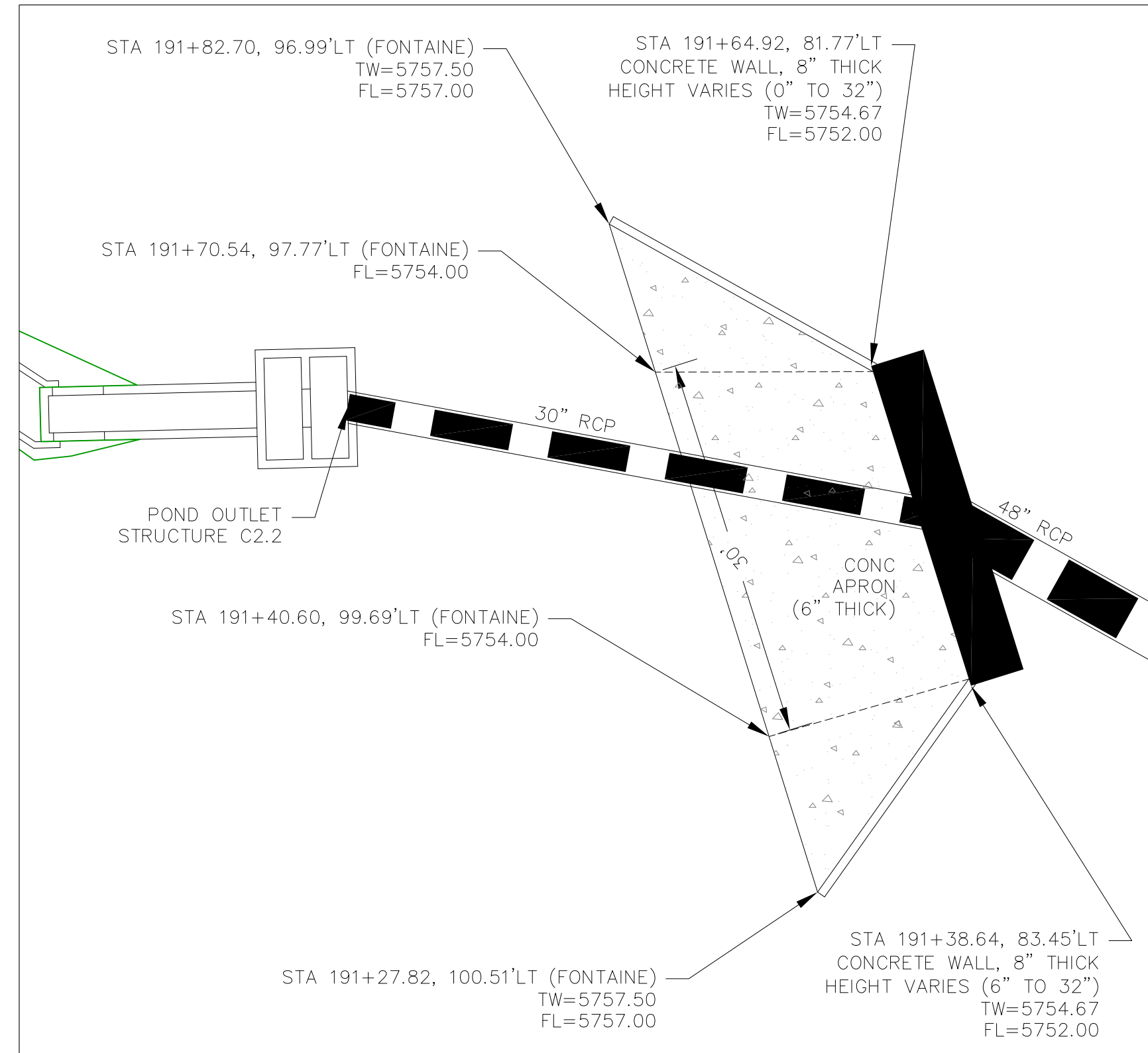
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
3. ALL STORM SEWER SHALL BE CLASS III RCP.
4. ALL MHs SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 1 CURVE DATA ID  
2 PEDESTRIAN RAMP, SEE SHEET C10.1  
3 CURB/GUTTER FLOW LINE POINTS

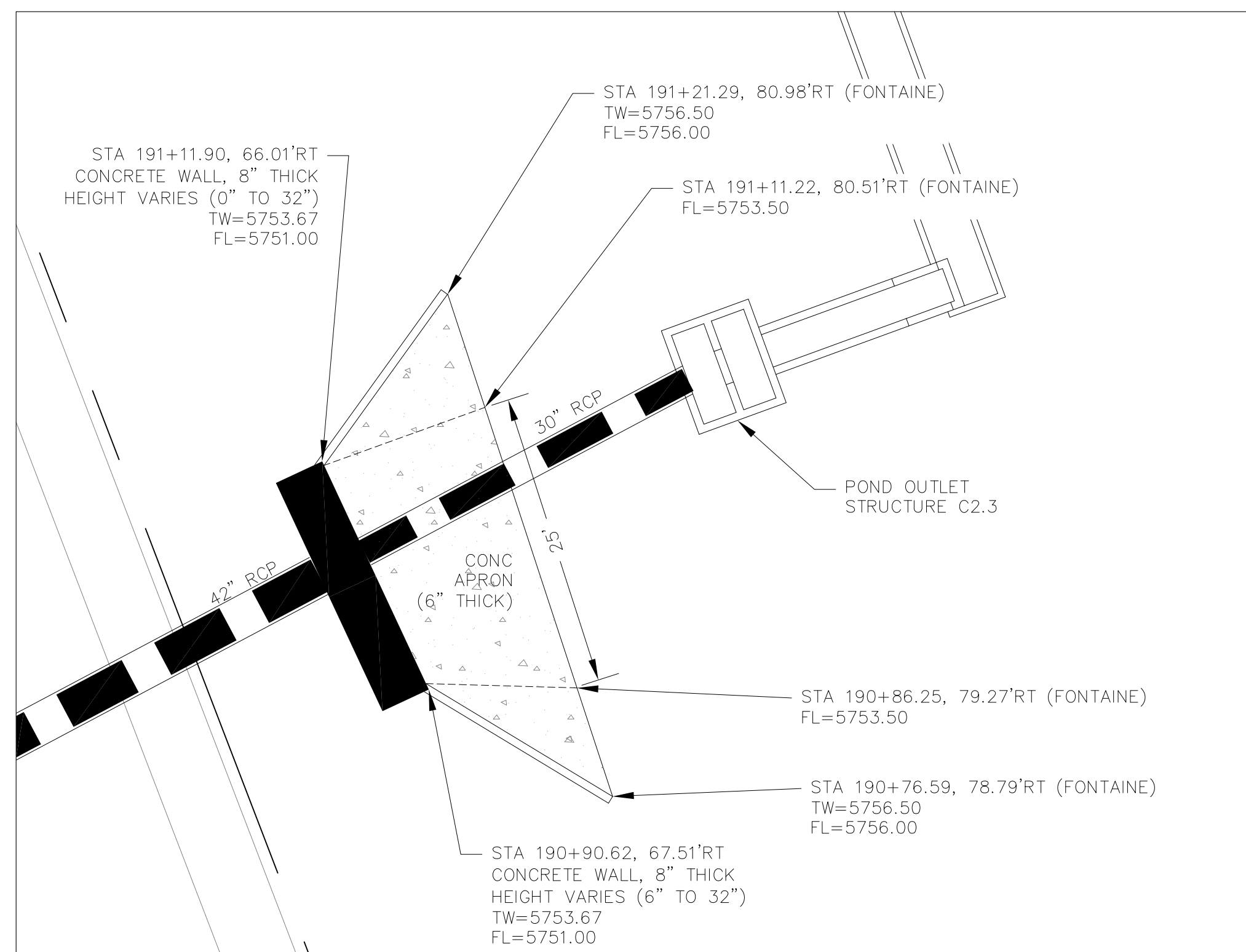


The profile view shows the bridge structure with the following data points and labels:

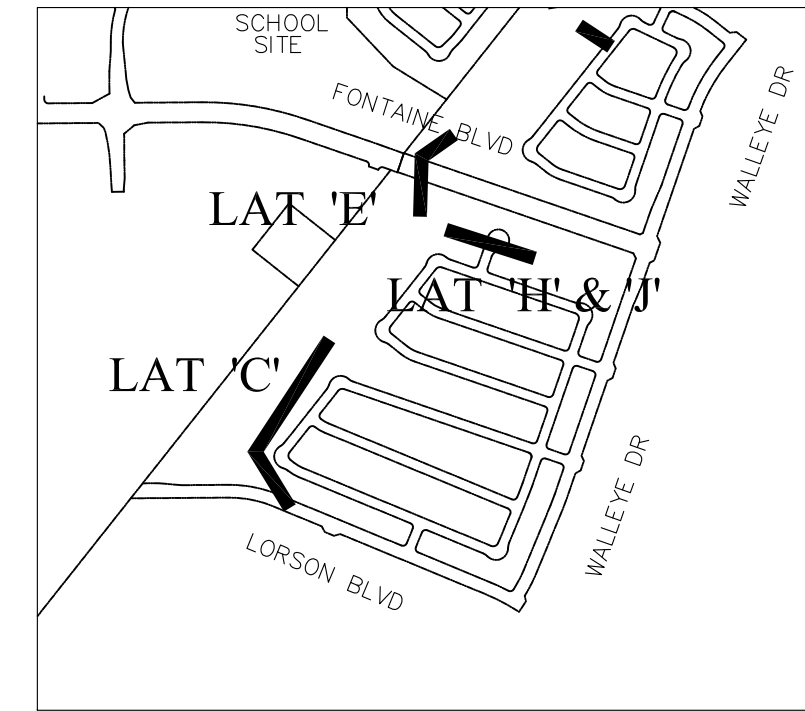
- Left Abutment:** STA 0+20.00, INV=5744.00, Q5=2.7cfs, Q100=42.9cfs. It features a 30° RCP and a 48° RCP.
- Bridge Piers:**
  - PIER 1: STA 1+63.64, CROSS "8" SAN, BTM STM=5742.06, TOP SAN=5741.06, CLEARANCE=1.0'. It includes a 42° RCP, Q5=5.6cfs, and Q100=64.9cfs.
  - PIER 2: STA 2+74.84, INV=5744.17, Q5=5.6cfs, Q100=64.9cfs. It includes a 30° RCP.
- Right Abutment:** STA 2+41.41, INV=5743.91, Q5=5.6cfs, Q100=64.9cfs. It features a 30° RCP.
- Hydraulic Data:**
  - 100YR HGL (High Water Level)
  - 5YR HGL (5-Year Return Period High Water Level)
  - Flow rates: 47.90LF, 78.12LF, 95.40LF.
  - Gradients: @0.80%, @0.60%, @0.51%.
- Structural Details:**
  - CONV 2.2, STA 0+67.90, INV=5743.62, INVERT IN 5743.62, INVERT OUT 5742.39.
  - STM 1.5, STA 1+32.01, INV=5742.37, INVERT IN 5742.42 (S.42°), INVERT IN 5741.92 (N.48°), INVERT OUT 5741.42 (S.4°).
  - CONV 2.3, STA 2+41.41, INV=5743.67, INVERT IN 5743.91, INVERT OUT 5742.91.
- Other Labels:** POND C2.2 OUTLET STRUCTURE, POND C2.3 OUTLET STRUCTURE.



SCALE: 1"=10'



SCALE: 1"=10'



1. 25" CDOT TYPE R INLET WITH MODIFIED THROAT OPENING
2. THROAT OPENING = 24"
3. EXTEND 1.25" GALVANIZED STEEL ROD SUPPORTS (TYPE R INLET) TO ACCOMMODATE 24" THROAT OPENING
4. CONCRETE APRON TO BE REINFORCED WITH NO. 4 REBAR, 24" O.C. BOTH WAYS. REBAR TO EXTEND INTO CONCRETE WALL W/ NO. 4 "L" BARS, 18" O.C.
5. CONCRETE WALLS SHALL HAVE A MINIMUM OF TWO HORIZONTAL NO. 4 BARS
6. 24" THROAT OPENING TO INCLUDE SAFETY GRATE.

1. 20' CDOT TYPE R INLET WITH MODIFIED THROAT OPENING
2. THROAT OPENING = 24"
3. EXTEND 1.25" GALVANIZED STEEL ROD SUPPORTS (TYPE R INLET) TO ACCOMMODATE 24" THROAT OPENING
4. CONCRETE APRON TO BE REINFORCED WITH NO. 4 REBAR, 24" O.C. BOTH WAYS. REBAR TO EXTEND INTO CONCRETE WALL W/ NO. 4 "L" BARS.
5. CONCRETE WALLS SHALL HAVE A MINIMUM OF TWO HORIZONTAL NO. 4 BARS
6. 24" THROAT OPENING TO INCLUDE SAFETY GRATE.

STREET & STORM SEWER PLAN/PROFILE		DATE: AUGUST 2, 2020	
STORM LATERAL 'E'		PROJECT NO. 100.061	
CONVEYANCE #2.2 & #2.3		SHEET NUMBER C7.2	
TOTAL SHEETS: 58			

DRAWN: RLS		NO.		DESCRIPTION		DATE	
DESIGNED: RLS							
CHECKED: RLS							

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD. - GRAYLING DR LORSON BLVD - VALLEY DR - LAMPREY DR COLORADO SPRINGS, COLORADO		PREPARED FOR: LORSON, LLC 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK	
--	--	--	--

<b>CORE</b>		<b>ENGINEERING GROUP</b>	
15004 1ST AVENUE S. BURNSVILLE, MN. 55306 TEL: 763-251-9370 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@eg1.com			

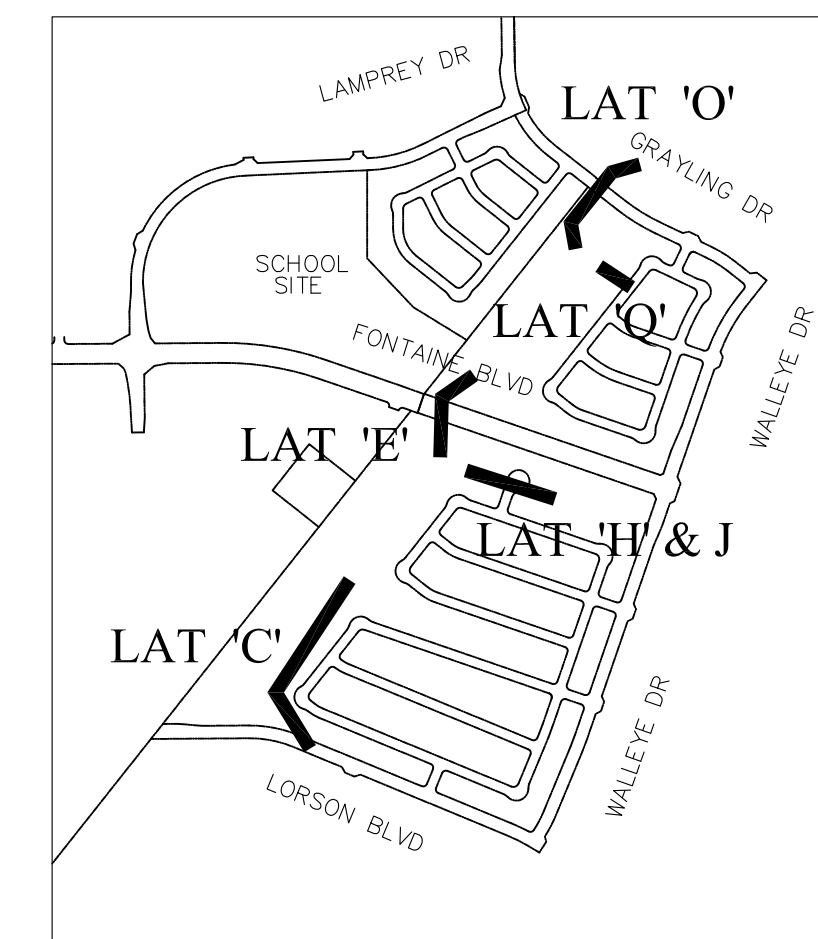
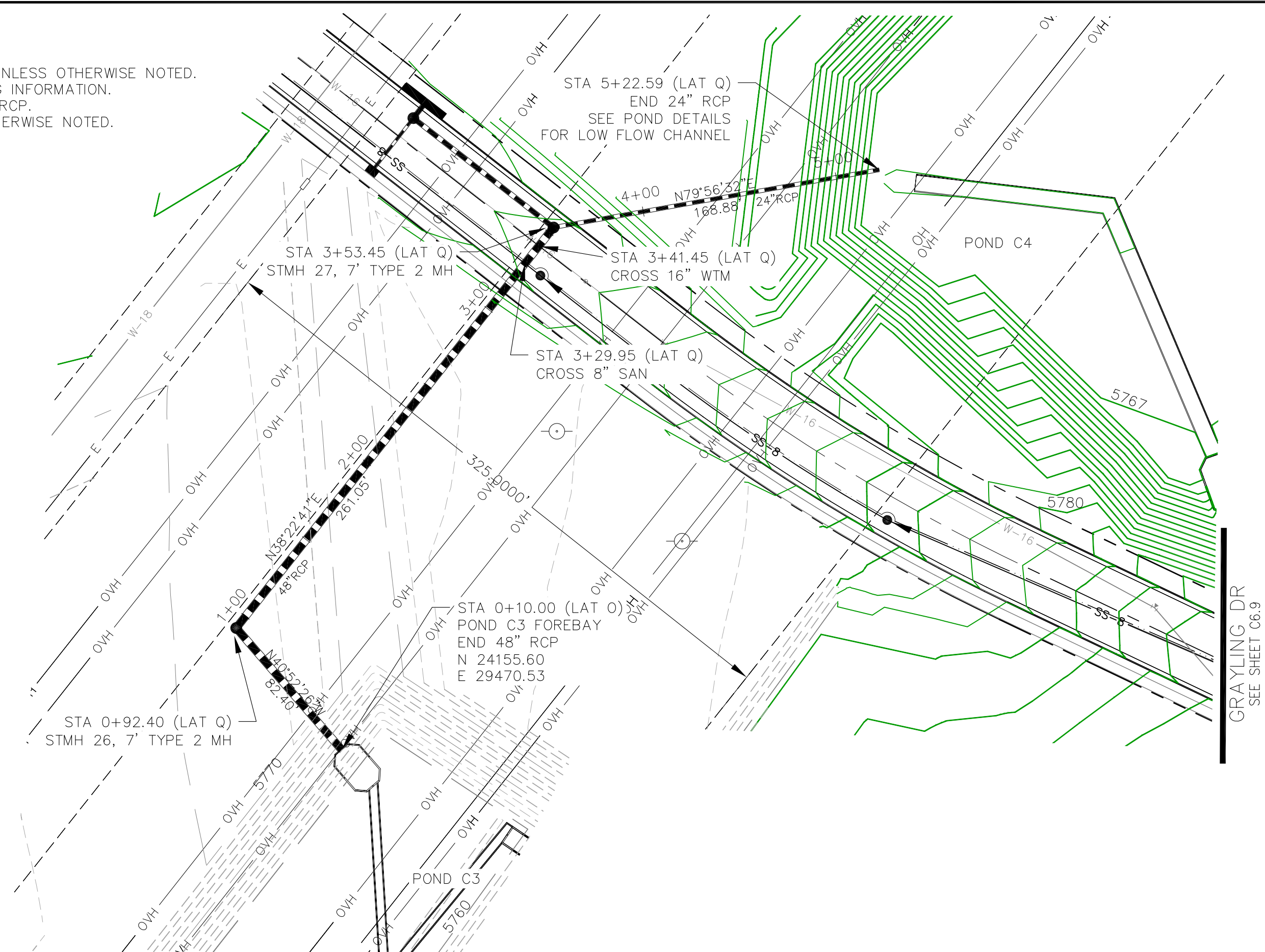




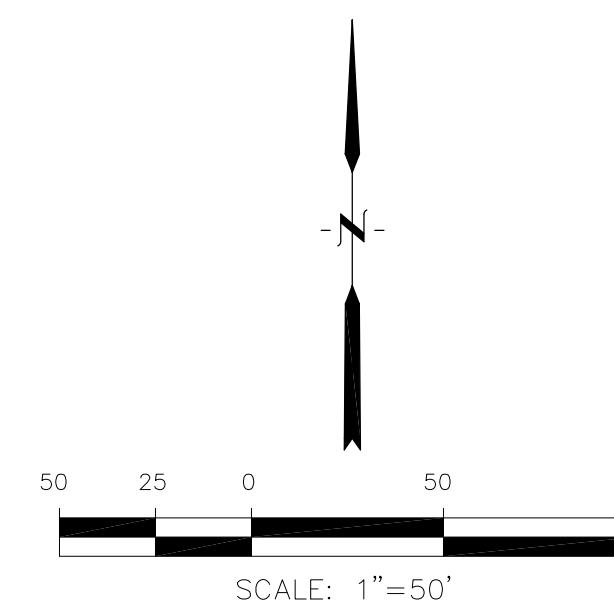


1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
3. ALL STORM SEWER SHALL BE CLASS III RCP.
4. ALL MHs SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

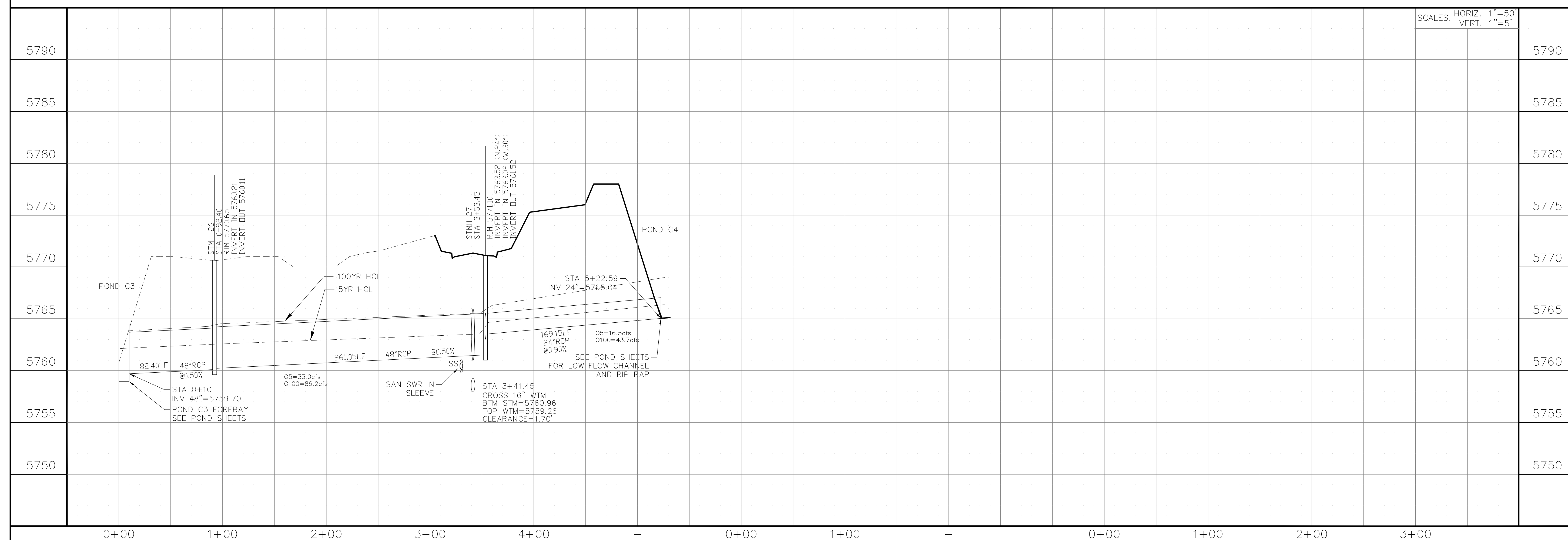
- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS



KEY MAP



STORM LATERAL 'O'



**CORE**  
**ENGINEERING GROUP**

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT: THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD-WALLEYE DR-LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS

STREET & STORM SEWER PLAN/PROFILE  
STORM LATERAL 'O'

DATE:  
AUGUST 2, 2020

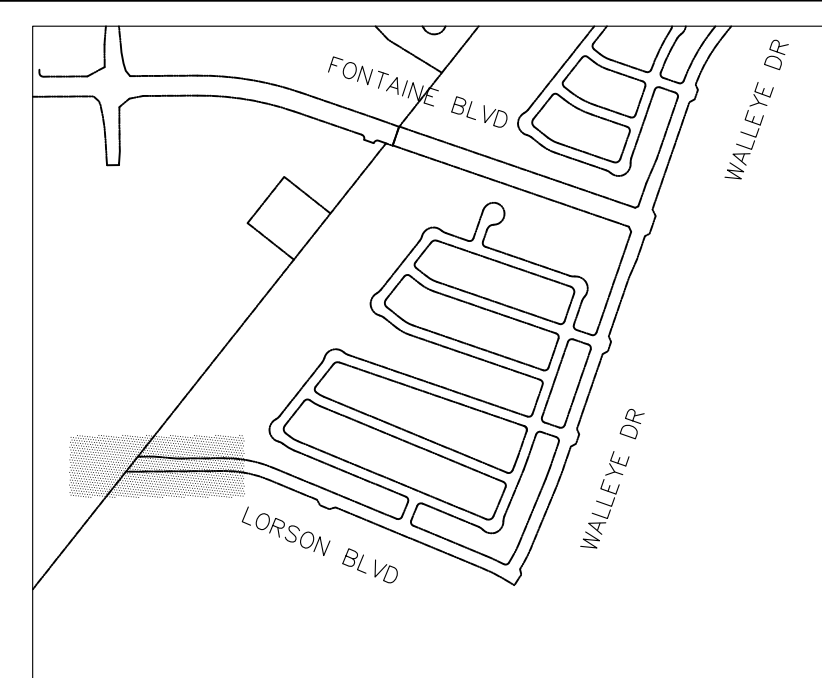
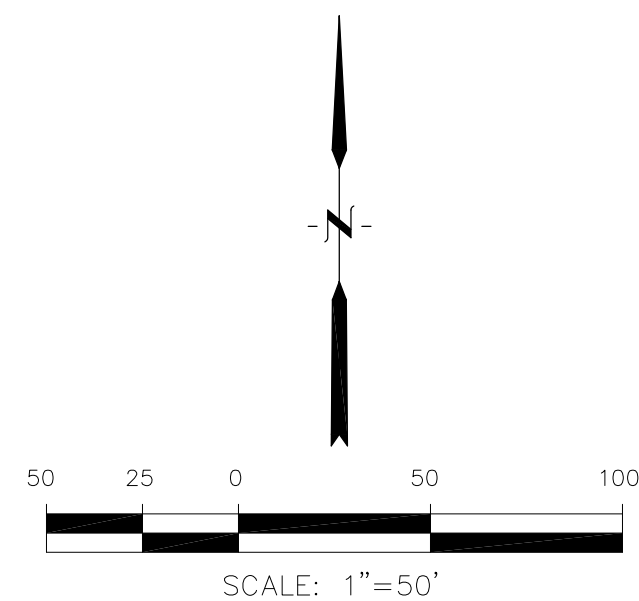
PROJECT NO.	100.061
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SHEET NUMBER  
**C7.4**

TOTAL SHEETS: 58



1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S

 KEY MAP

15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

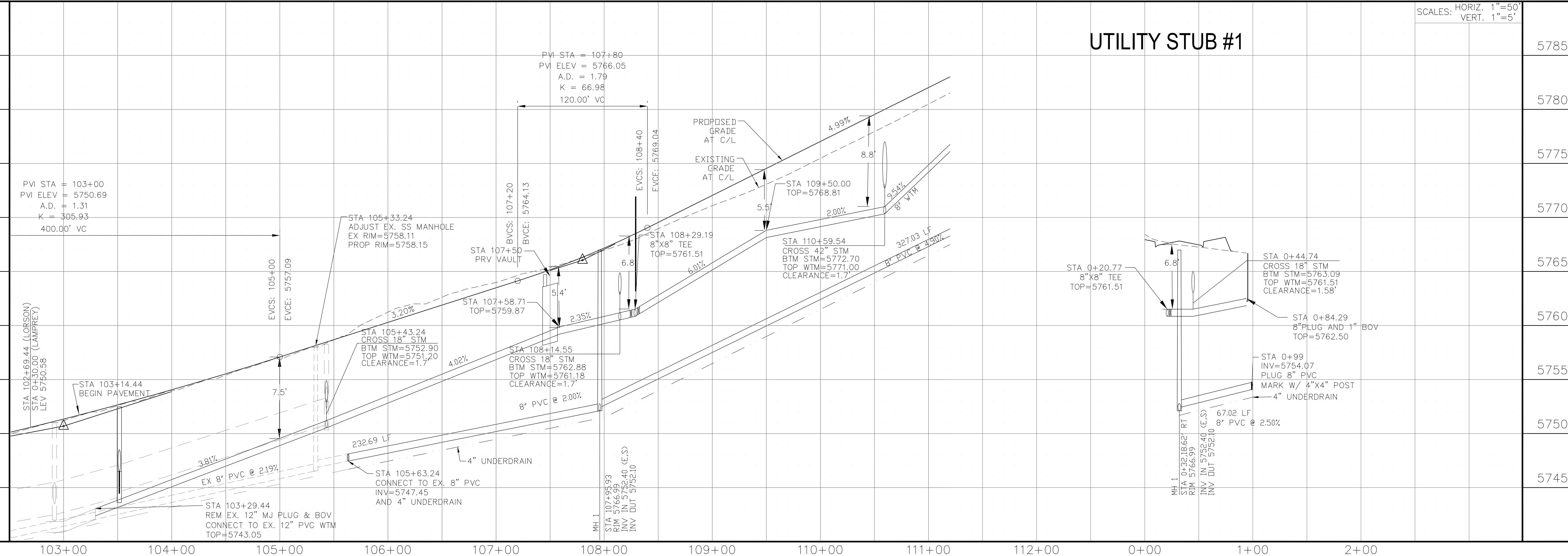
PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903

PROJECT: THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR

LS  
LS  
LS

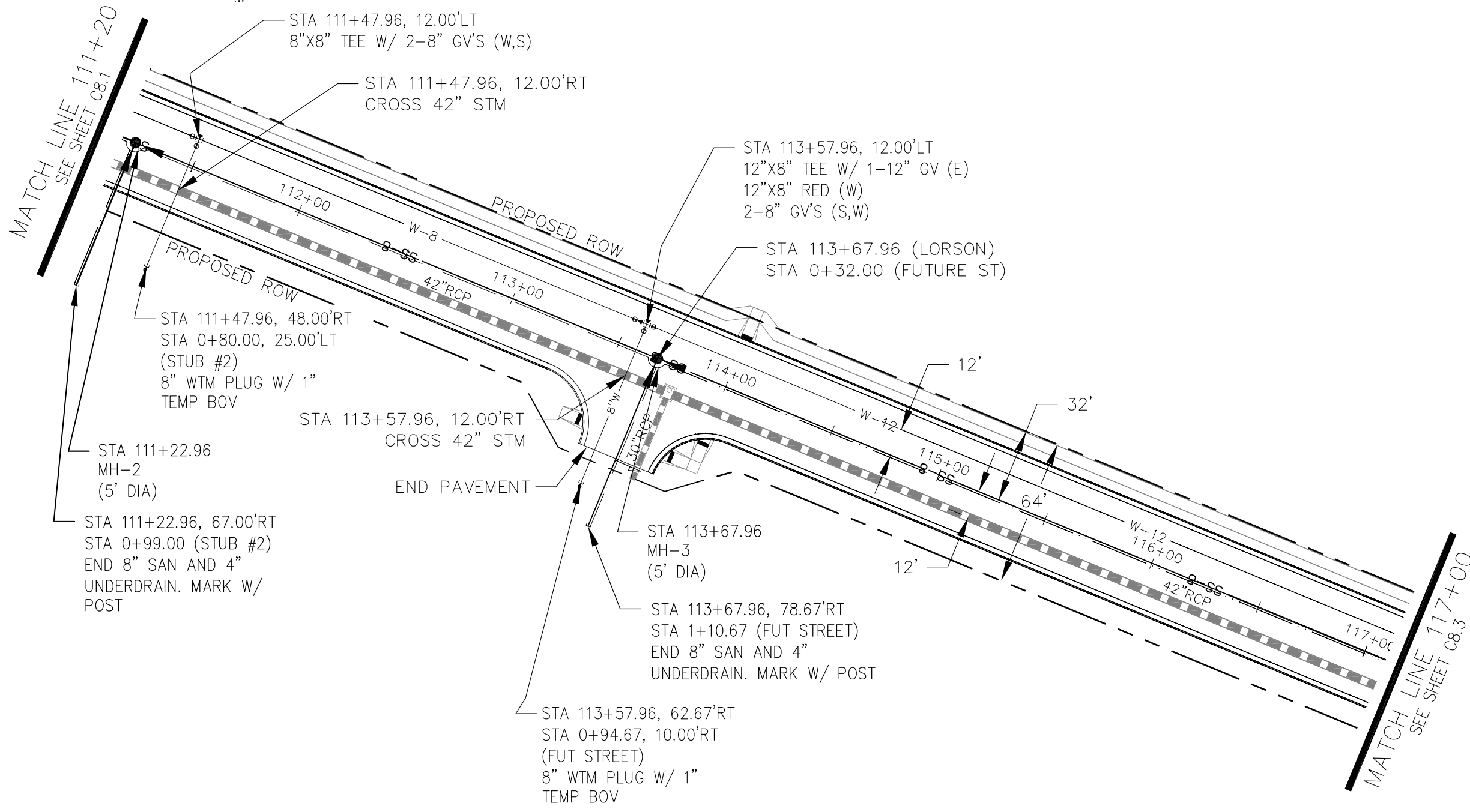
W T M   A N D   S A N I T A R Y   P L A N / P R O F I L E  
L O R S O N   B O U L E V A R D  
S T A 1 0 3 + 0 0   T O   S T A 1 1 1 + 2 0

SHEET NUMBER  
**C8.1**

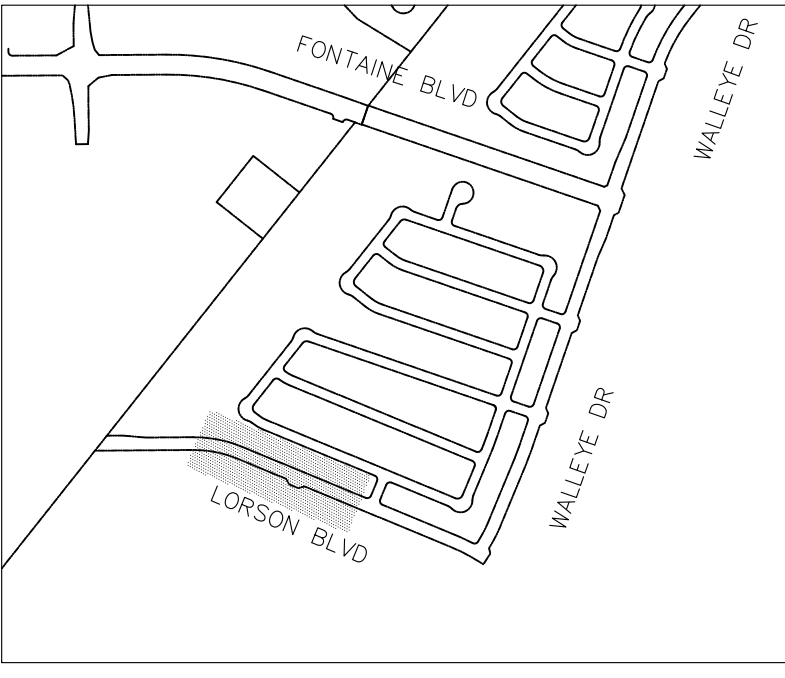


NOTES

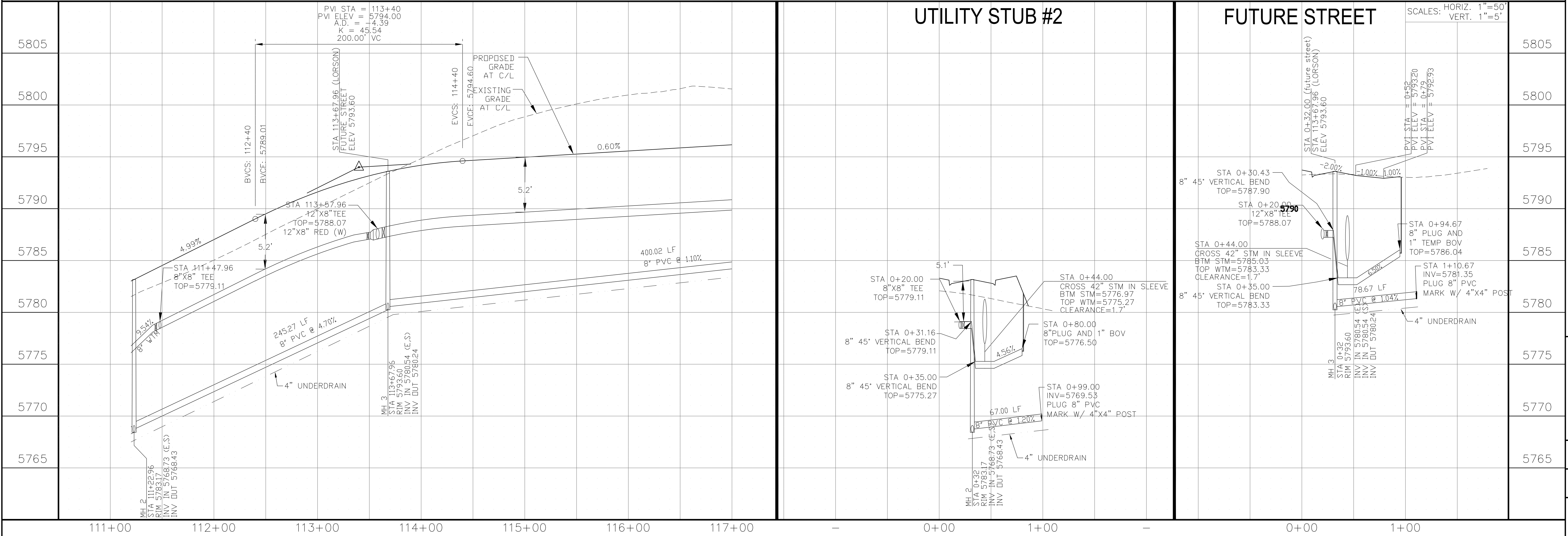
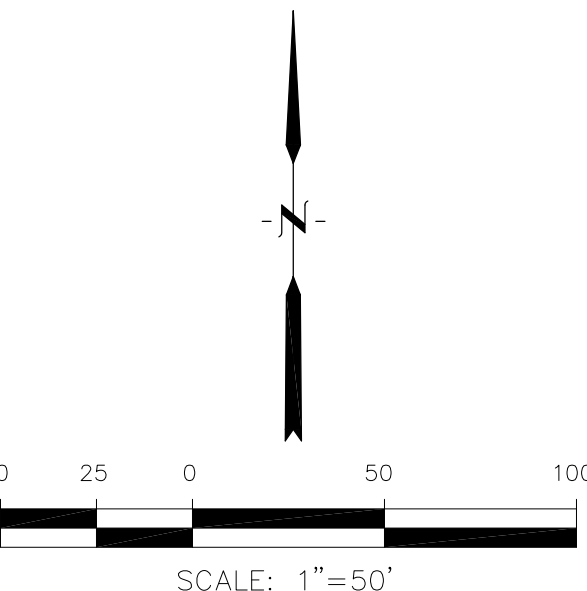
1. STATIONING IS AT ROADWAY CENTERLINE.  
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.  
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18.  
4. ALL WATERMAIN FITTINGS ARE MJ DIP.  
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



LORSON BOULEVARD



KEY MAP



UTILITY STUB #2

FUTURE STREET

CORE  
ENGINEERING GROUP

15004 1ST AVENUE S.  
SUITE 301  
DENVER, CO 80232  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg.com

DATE

NO.

DESCRIPTION

PROJECT:  
THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

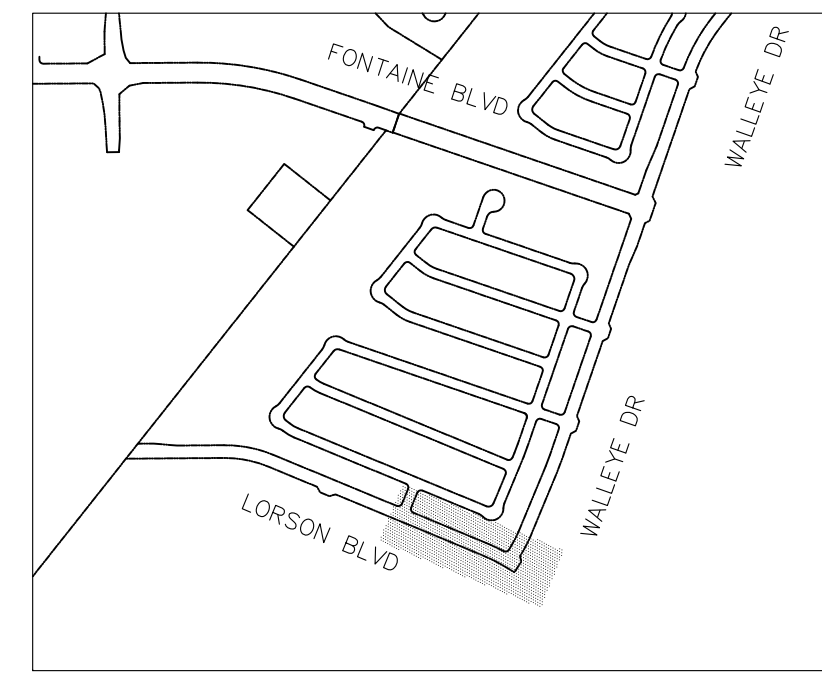
DATE:  
AUG 2, 2020

PROJECT NO.  
100.061

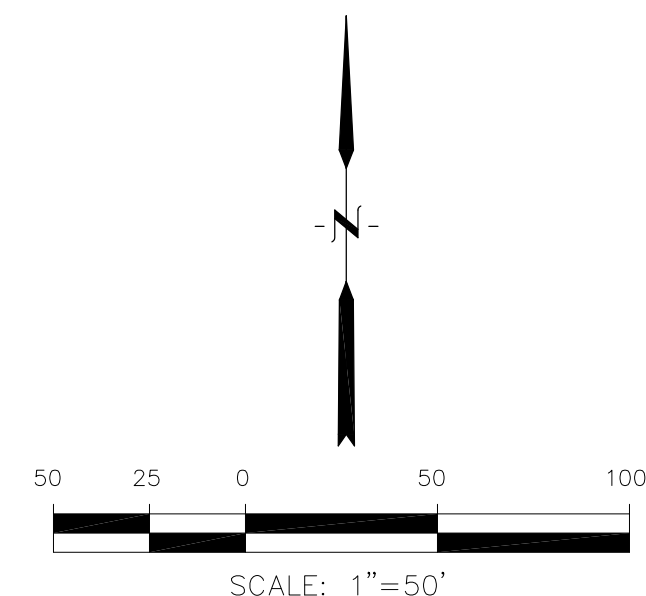
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C8.2

TOTAL SHEETS: 58

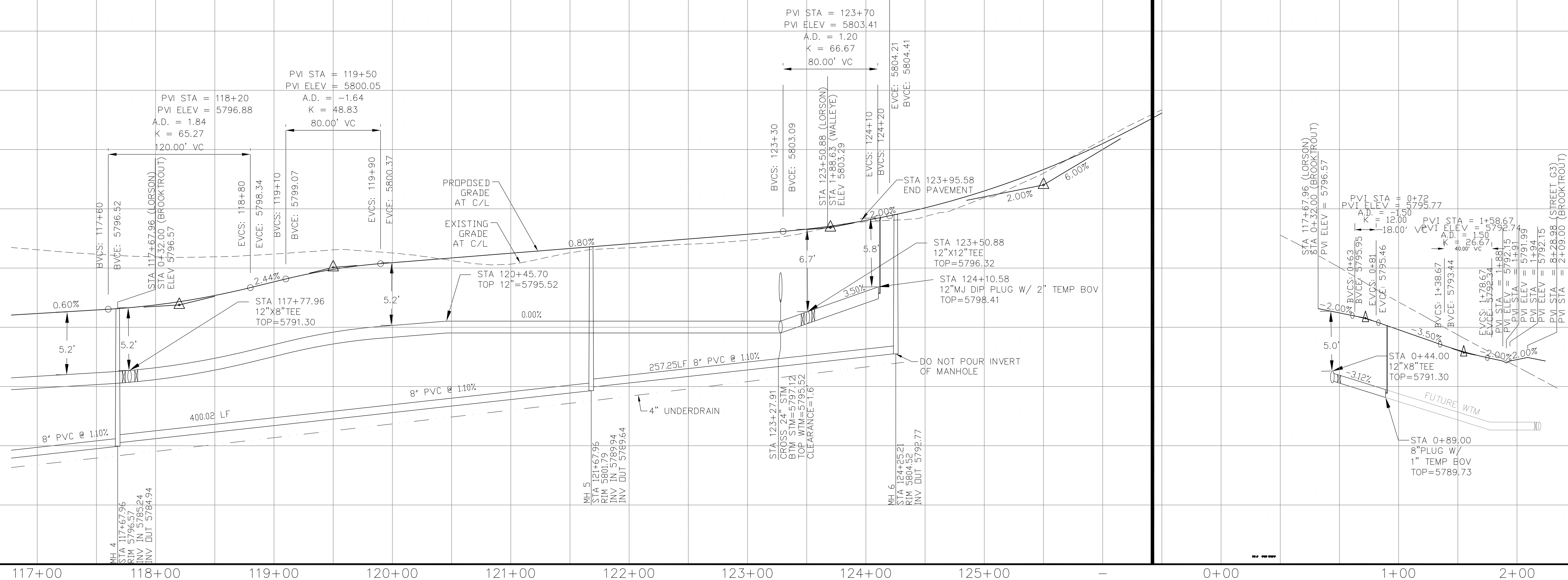
1. STATIONING IS AT ROADWAY CENTERLINE
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



## KEY MAP



## BROOKTROUT TR



WWTM AND SANITARY PLAN/PROFILE  
LORSON BOULEVARD  
STA 117+00 TO STA 124+25

DATE:  
AUG 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
**C8.3**

TOTAL SHEETS: 58

**CORE**  
**ENGINEERING GROUP**

15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
FONTAINE BLVD -- GRAYLING DR  
LORSON BLVD--WALLEYE DR--LAMPREY DR  
COLORADO SPRINGS, COLORADO

ATE

DESCRIPTION

No.

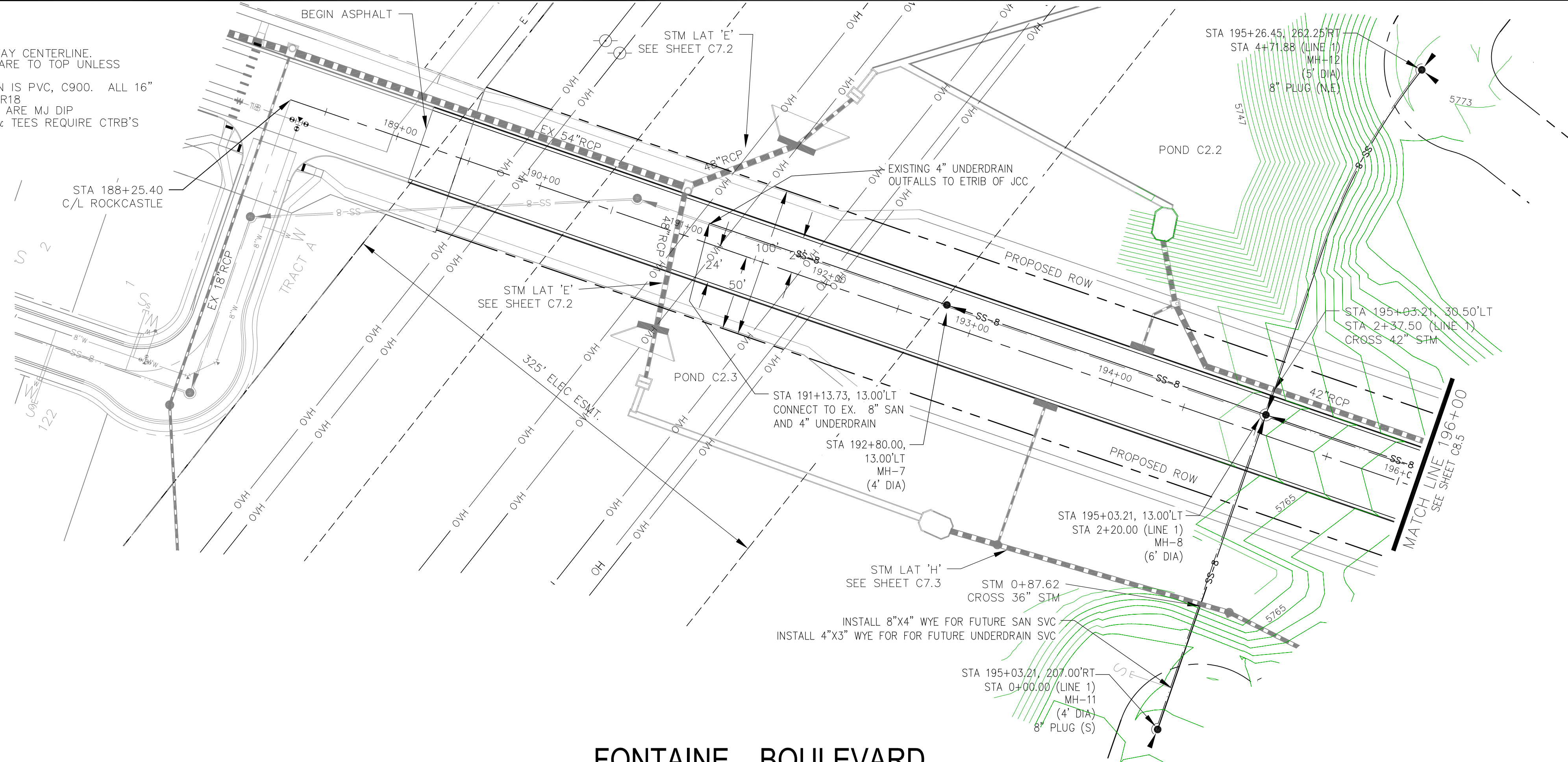
DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS

CHECKED: RLS

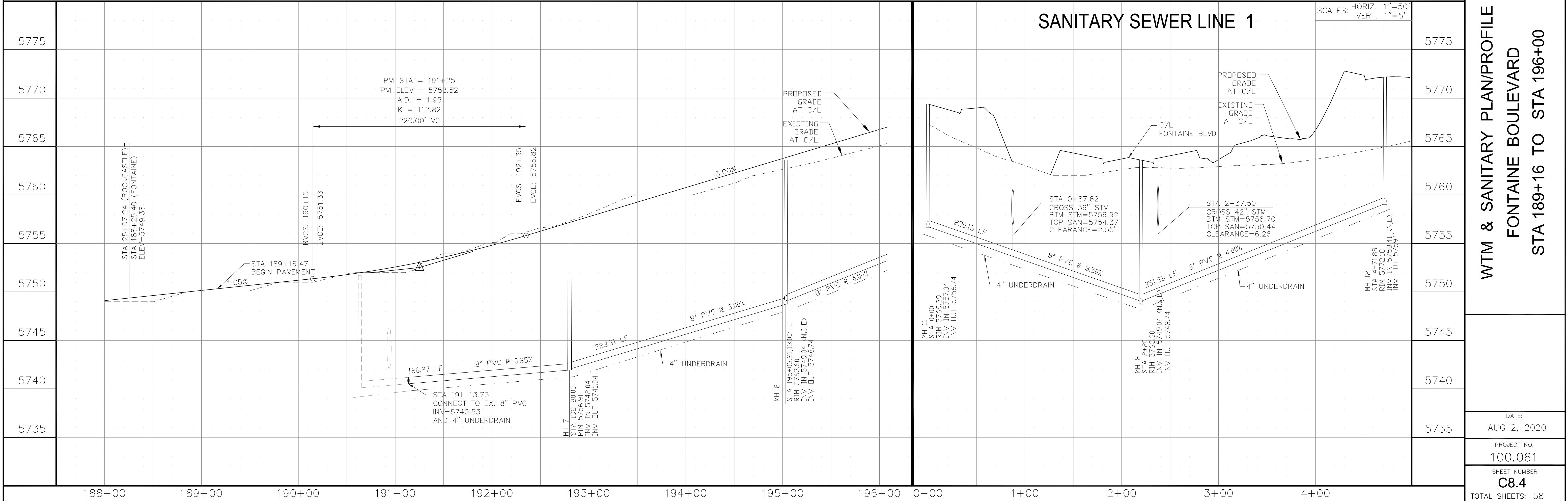


NOTES

1. STATIONING IS AT ROADWAY CENTERLINE.  
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE  
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18  
4. ALL WATERMAIN FITTINGS ARE MJ DIP  
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



FONTAINE BOULEVARD



CORE

ENGINEERING GROUP

15004 1ST AVENUE S,  
DENVER, CO 80202  
PHONE: 303.733.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@ceg1.com

DATE

DESCRIPTION

NO.

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PROJECT:  
THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

WTM & SANITARY PLAN/PROFILE

FONTAINE BOULEVARD

STA 189+16 TO STA 196+00

DATE:  
AUG 2, 2020

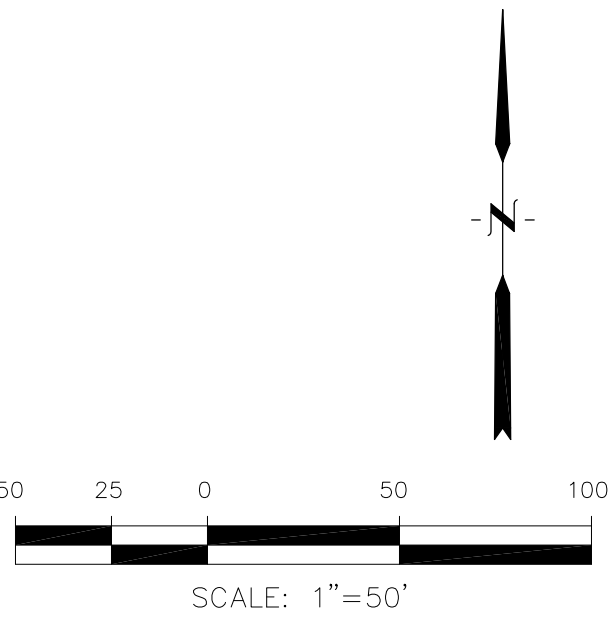
PROJECT NO.  
100.061

SHEET NUMBER  
C8.4

TOTAL SHEETS: 58



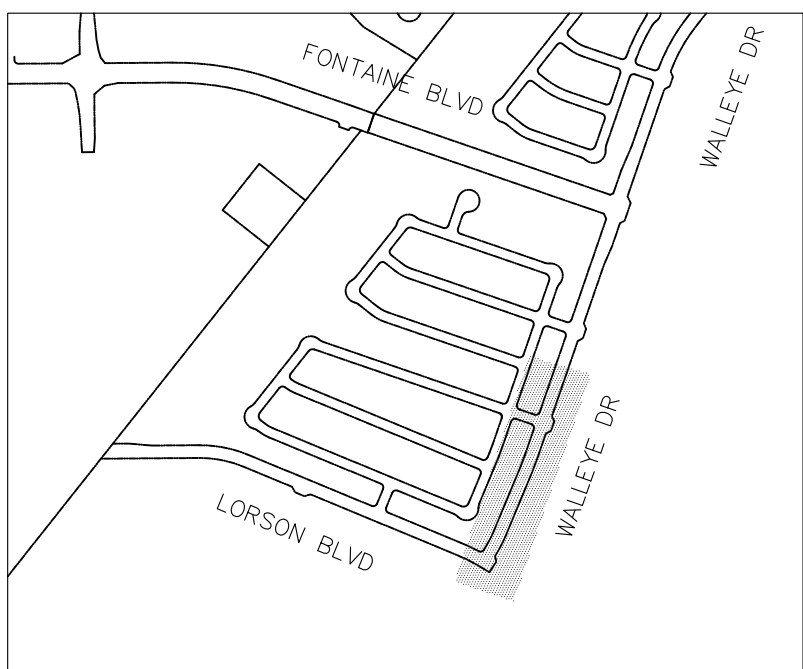
1. STATIONING IS AT ROADWAY CENTERLINE.
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3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
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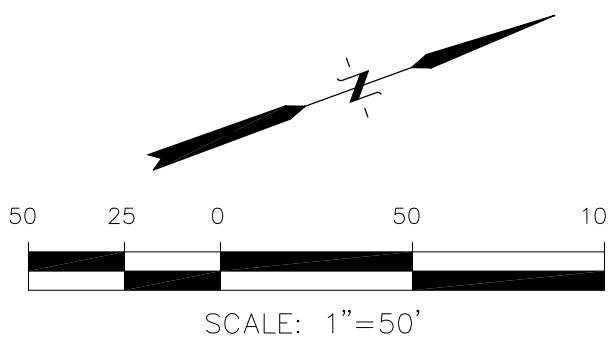
SCALES: HORIZ. 1"=50'  
VERT 1"=5'

[illegible]

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



### KEY MAP

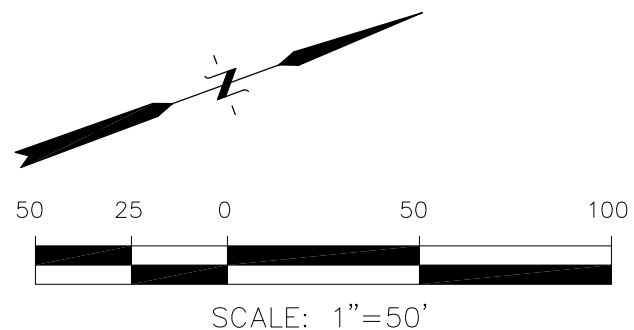
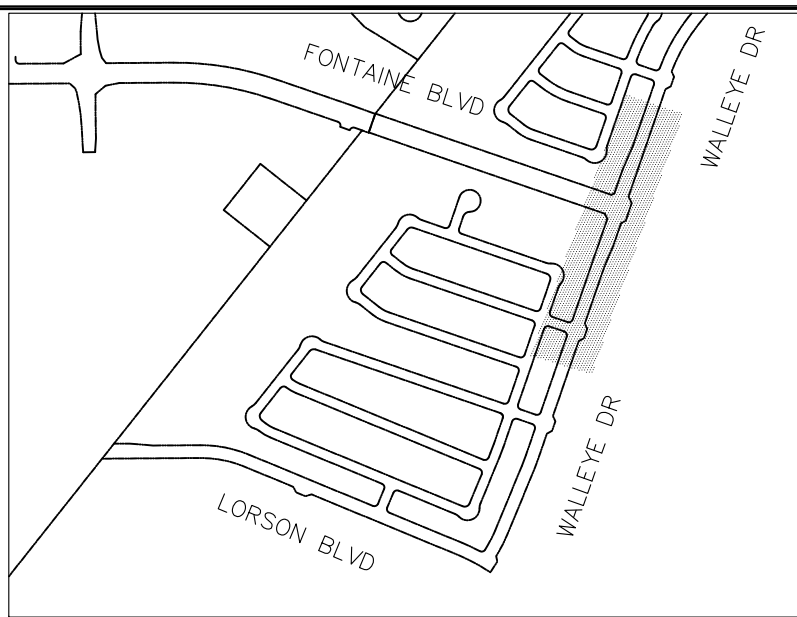


WWTM AND SANITARY PLAN/PROFILE  
WALLEYE DR & SPLAKE ST  
STA 2+00 TO STA 12+50

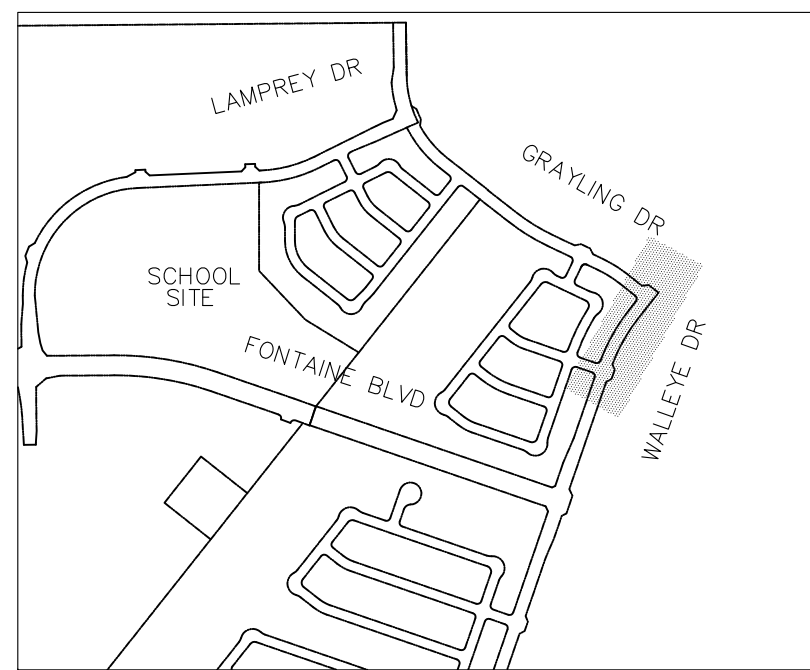
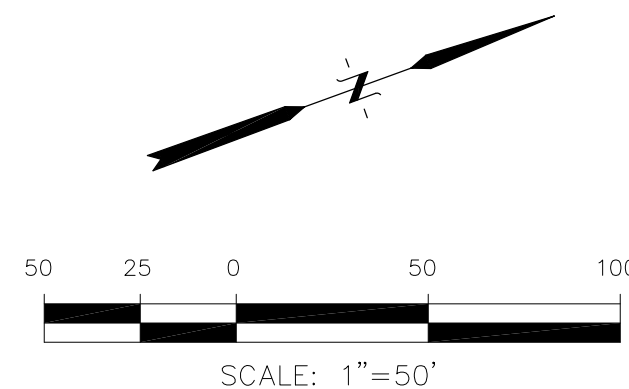
DATE:	AUG 2, 2020
PROJECT NO.	100.061
SHEET NUMBER	C8.6
TOTAL SHEETS:	58



1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
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[illegible]

1. STATIONING IS AT ROADWAY CENTERLINE.
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5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S

 KEY MAP

**SANDERLING ST**

SCALES: HORIZ. 1"=50' VERT. 1"=5'

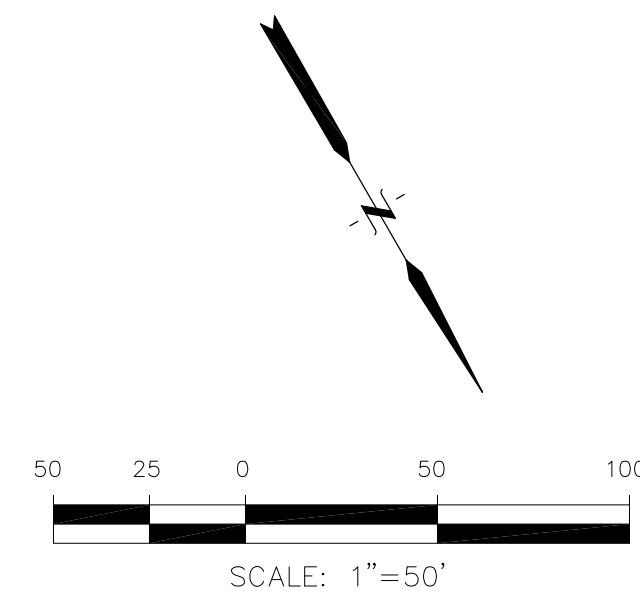
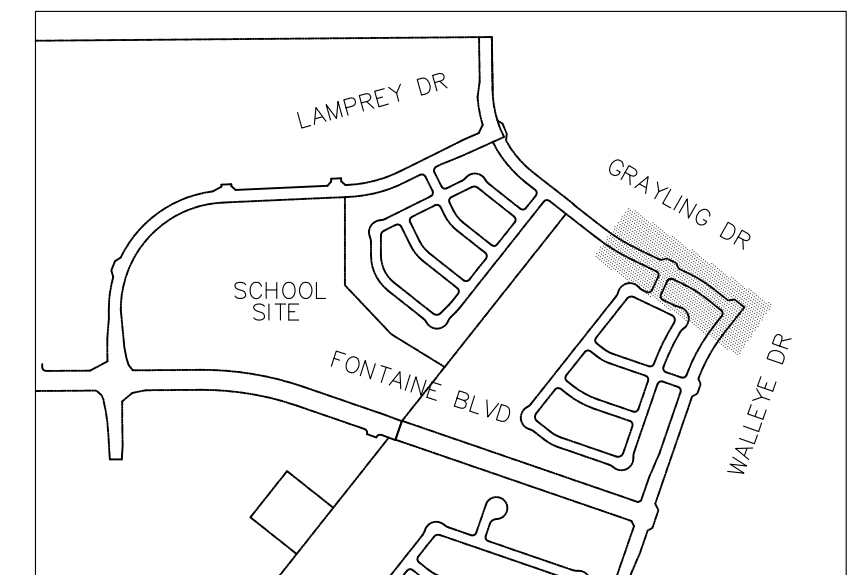
**Profile Data:**

- Station 23+00 to 27+00:**
  - PVI STA = 24+50, PVI ELEV = 5789.50, A.D. = 2.70, K = 66.60, 180.00' VC
  - BVCS: 23+60, BVCE: 5787.88
  - EVCS: 25+40, EVCE: 5793.55
  - BVCS: 25+79, BVCE: 5795.31
  - High Point ELEV = 5799.76, High Point STA = 27+77, PVI STA = 27+00, PVI ELEV = 5800.75, A.D. = -5.50, K = 44.00, 242.00' VC
- Station 27+00 to 31+00:**
  - STA 27+67.59 (WALLEYE), STA 27+67.59 (SANDERLING), ELEV 5799.75
  - EVCS: 28+21, EVCE: 5799.54
  - PVI STA = 28+50, PVI ELEV = 5799.25
  - 110.00' VC
  - Low Point ELEV = 5797.54, Low Point STA = 31+56.25, PVI STA = 31+70, PVI ELEV = 5797.33, A.D. = 1.60, K = 68.75
- Station 31+00 to 33+00:**
  - BVCS: 31+15, BVCE: 5797.66
  - STA 31+98.67 (WALLEYE), STA 31+98.67 (SANDERLING), ELEV 5797.19
  - EVCS: 32+25, EVCE: 5797.88
- Station 33+00 to 34+00:**
  - STA 32+43.67 END PAVEMENT
  - STA 32+58.67 16" MJ DIP PLUG W/ 1" TEMP BOV TOP=5792.65
  - STA 32+21.45 16" 45" VERTICAL BEND TOP=5791.93
  - STA 32+73.67 INV=5787.29 PLUG 8" PVC MARK W/ 4"X4" POST
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 34+00 to 35+00:**
  - STA 31+99.89 16" 45" VERTICAL BEND TOP=5791.93
  - STA 32+04.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+10.67 CROSS 42" STM IN SLEEVE BTM STM=5788.85 TOP WTM=5787.15 CLEARANCE=1.7'
  - STA 31+98.67 0.00' RT R/W 5797.67 INV IN 5786.51 (N.E) INV OUT 5786.21
  - 75.00 LF
  - 8" PVC @ 1.04%
  - 4" UNDERDRAIN
- Station 35+00 to 36+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 36+00 to 37+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 37+00 to 38+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 38+00 to 39+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 39+00 to 40+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 40+00 to 41+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 41+00 to 42+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 42+00 to 43+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 43+00 to 44+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 44+00 to 45+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 45+00 to 46+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 46+00 to 47+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 47+00 to 48+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 48+00 to 49+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 49+00 to 50+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 50+00 to 51+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 51+00 to 52+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 52+00 to 53+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 53+00 to 54+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 54+00 to 55+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5787.15
- Station 55+00 to 56+00:**
  - STA 32+16.67 16" 45" VERTICAL BEND TOP=5

WWTM AND SANITARY PLAN/PROFILE  
WALLEYE DR & SANDERLING ST  
STA 23+00 TO STA 32+75

DATE:	AUG 2, 2020
PROJECT NO.	100.061
SHEET NUMBER	<b>C8.8</b>
TOTAL SHEETS: 58	

1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

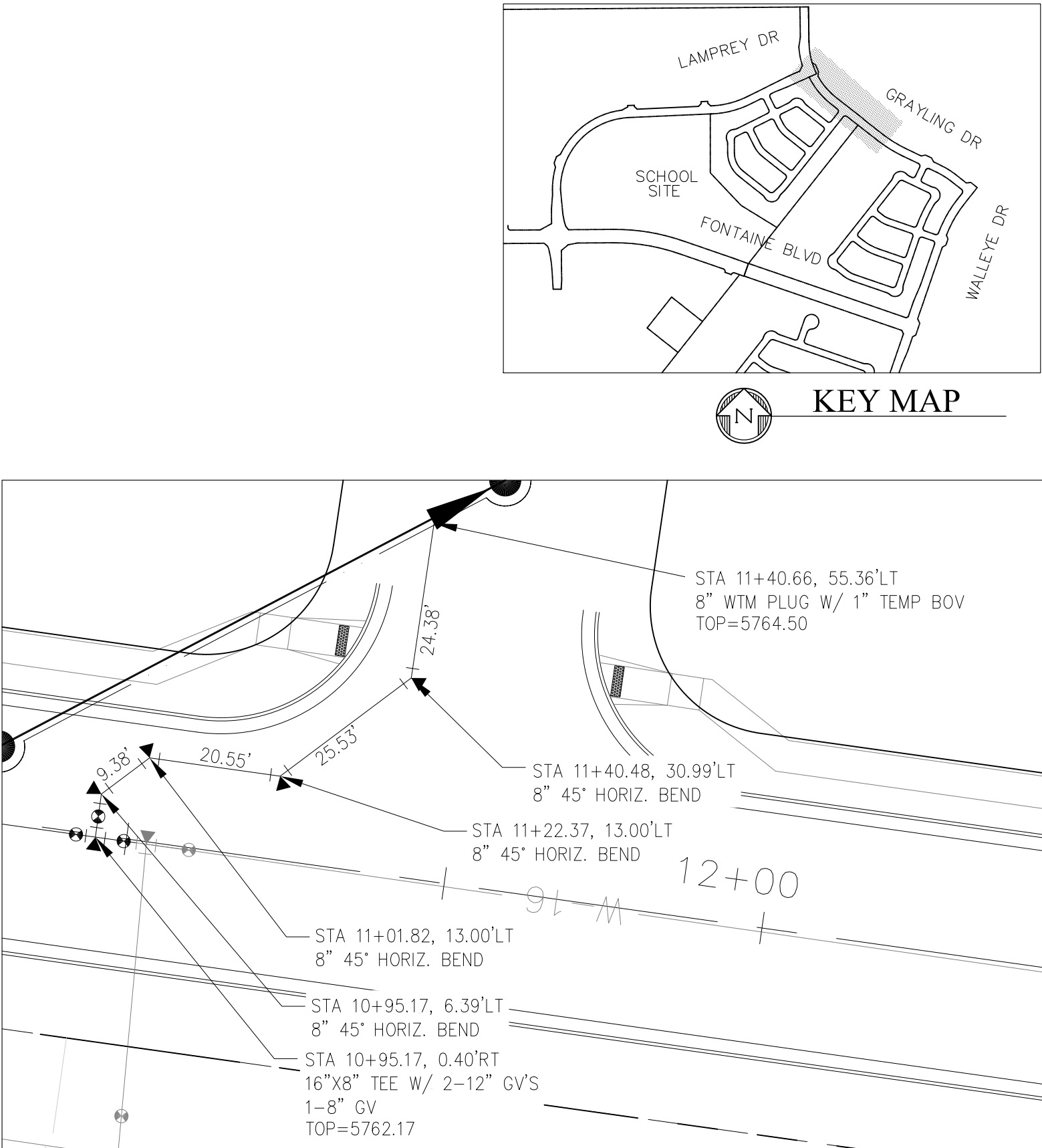
WTM AND SANITARY PLAN/PROFILE  
GRAYLING DR & SCRUB JAY TR  
STA 0+00 TO STA 7+50

PROJECT NO.  
100.061

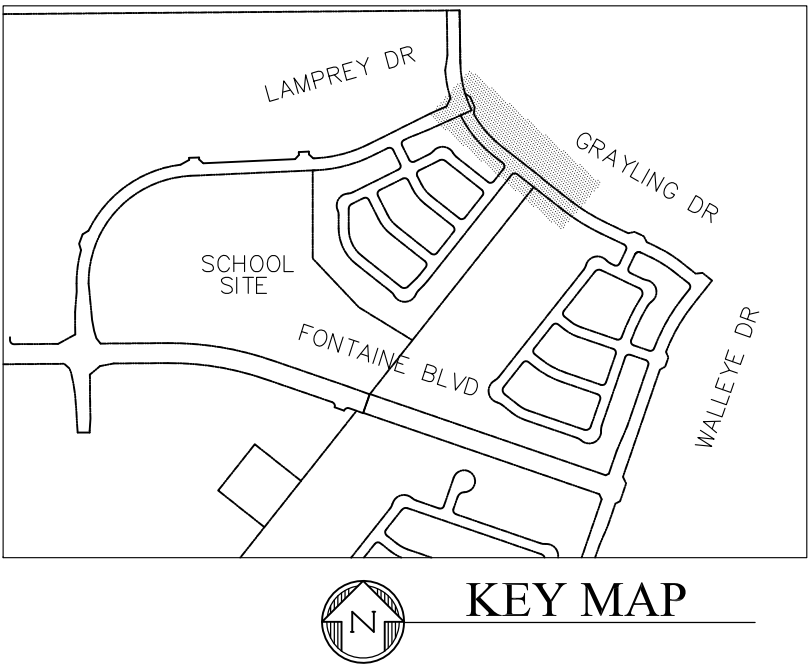
SHEET NUMBER  
**C8.9**

TOTAL SHEETS: 58





- ## NOTES
1. STATIONING IS AT ROADWAY CENTERLINE.
  2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
  3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
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**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@eg1.com

NO.	DESCRIPTION	DATE
<div> <div> PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD. - GRAYLING DR LORSON BLVD.-WALLEYE DR-LAMPREY DR COLORADO SPRINGS, COLORADO </div> <div> PREPARED FOR: LORSON, LLC 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK </div> </div>		

DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS

WTM AND SANITARY PLAN/PROFILE  
GRAYLING DR & YELLOWTHROAT TER  
STA 7+50 TO STA 16+00

DATE:  
AUG 2, 2020

PROJECT NO.  
100.061

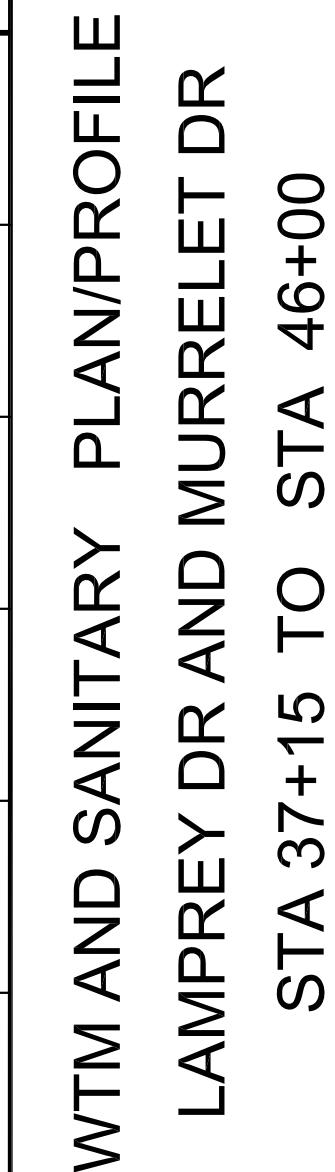
SHEET NUMBER  
**C8.10**

TOTAL SHEETS: 58

1. STATIONING IS AT ROADWAY CENTERLINE.
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5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



SCALE: 1"=20'



DATE:  
AUG 2, 2020

PROJECT NO.	100.061
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SHEET NUMBER  
**C8.11**

TOTAL SHEETS: 58

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceal.com

DATE	DESCRIPTION

PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903

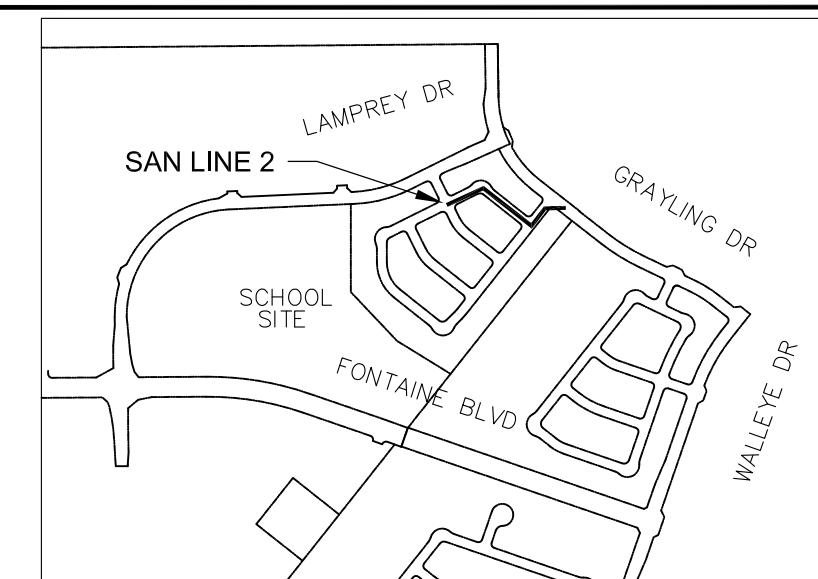
NO.	DESCRIPTION

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 FONTAINE BLVD. - SPRAYING OF

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS



1. STATIONING IS AT ROADWAY CENTERLINE.
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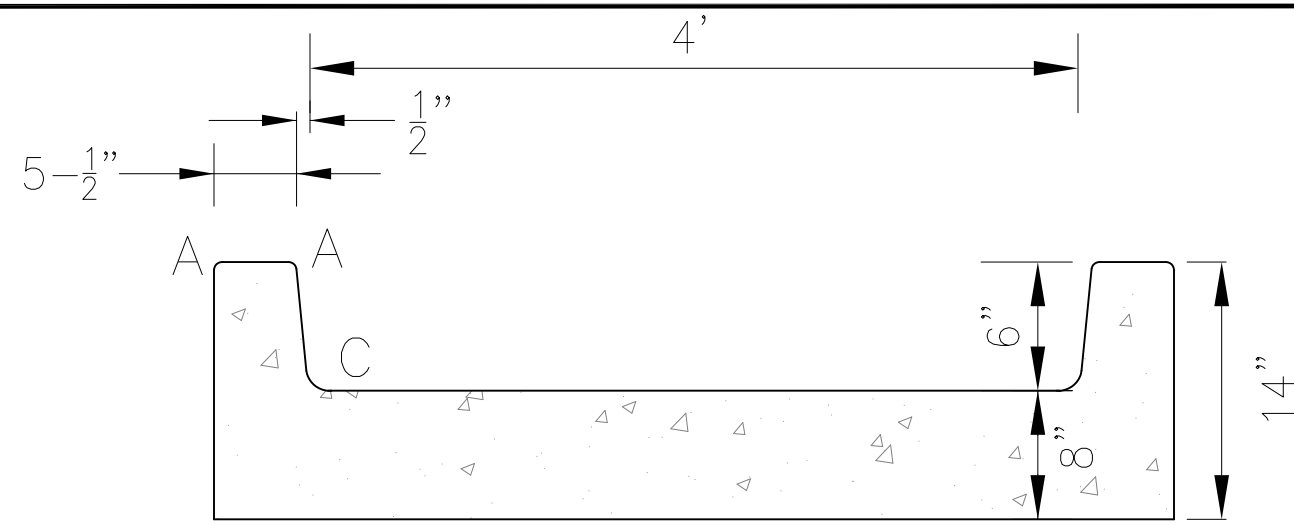
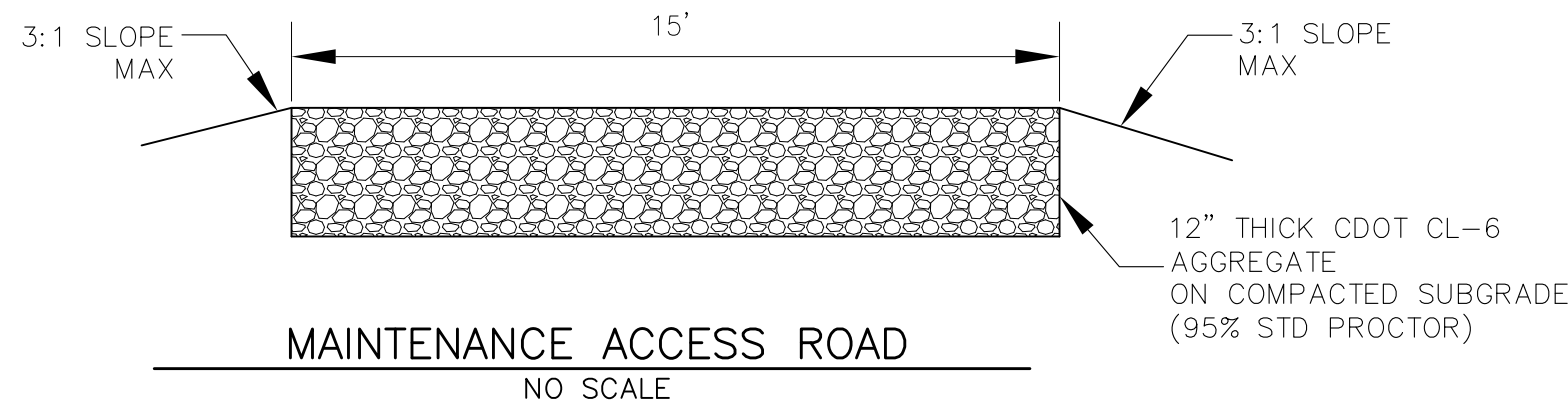


SAN SWR LINE 2



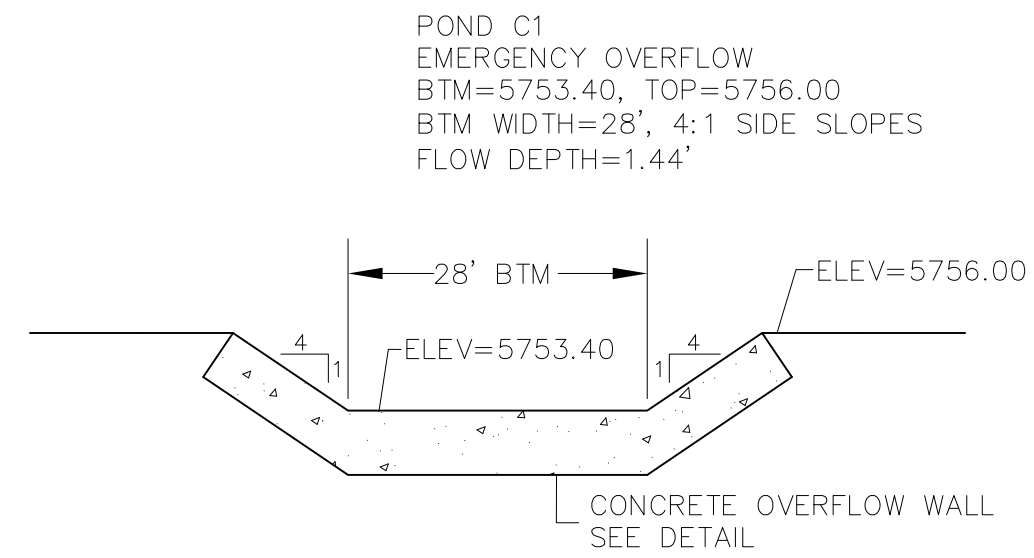
DATE:	AUG 2, 2020
PROJECT NO.	100.061
SHEET NUMBER	<b>C8.12</b>
TOTAL SHEETS: 58	



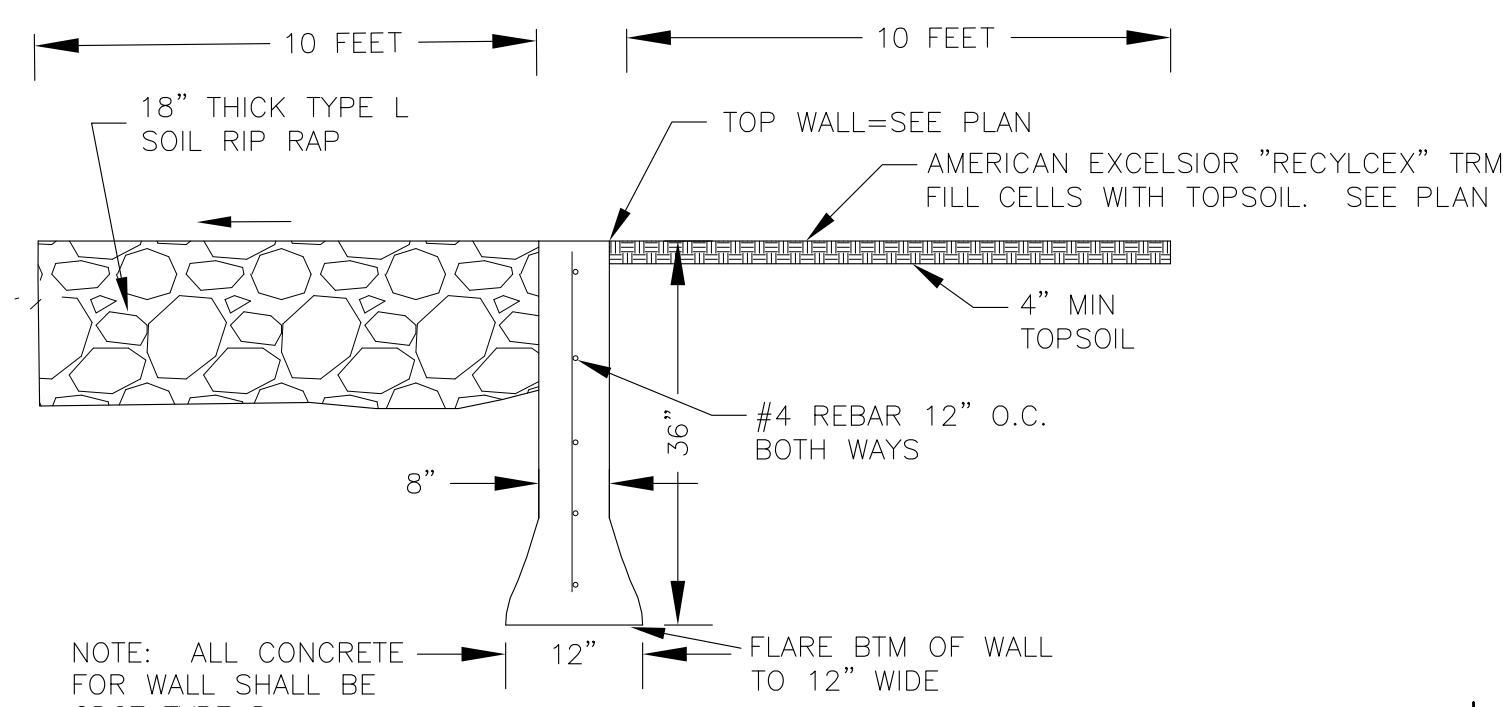


CONCRETE LOW FLOW CHANNEL DETAIL  
NO SCALE

LENGTH FOR RADII	
A	= 1/2"
C	= 1-1/2"

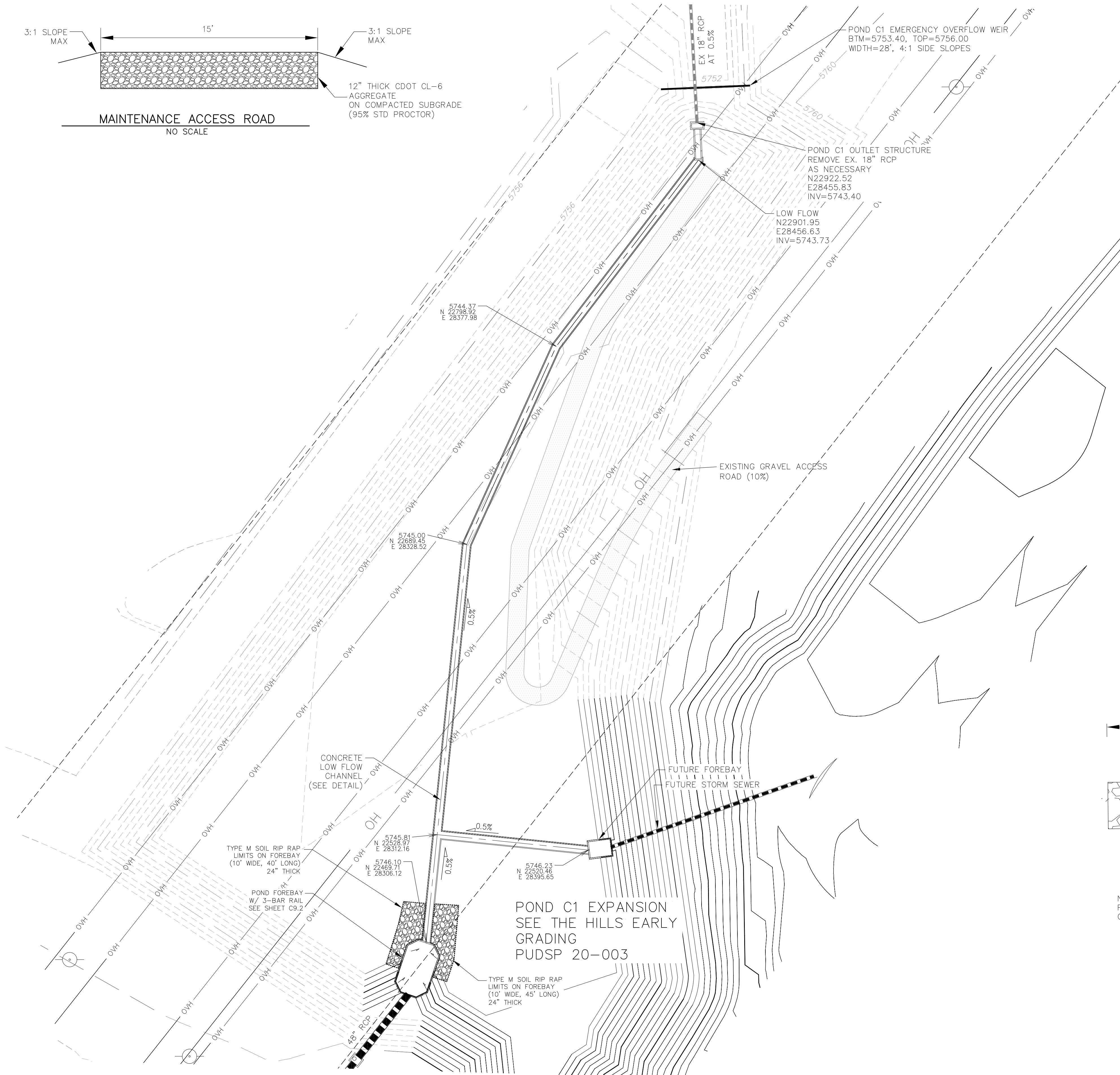
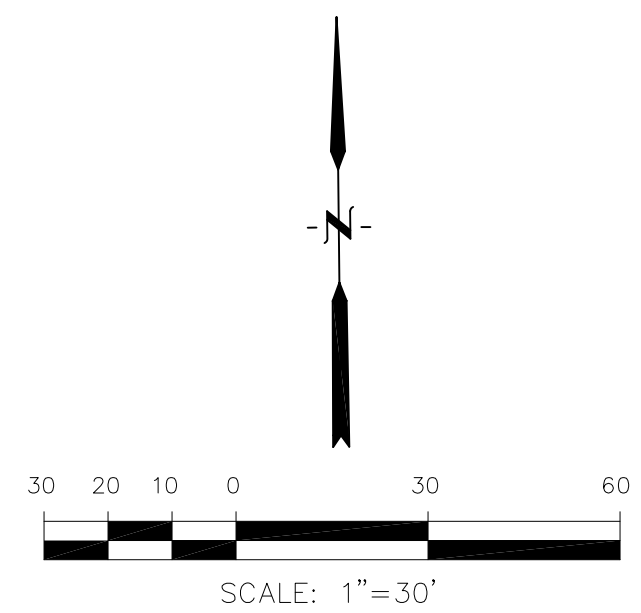


POND C1  
EMERGENCY OVERFLOW  
PROFILE  
SCALE: NTS



NOTE: ALL CONCRETE FOR WALL SHALL BE CDOT TYPE D

POND CONCRETE OVERFLOW WALL  
NO SCALE



**CORE**  
ENGINEERING GROUP  
15004 1ST AVENUE S.  
BURNING WOOD, CO 80906  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg.com

DATE: \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

DATE: \_\_\_\_\_

NO. \_\_\_\_\_

DATE: \_\_\_\_\_

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE., SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

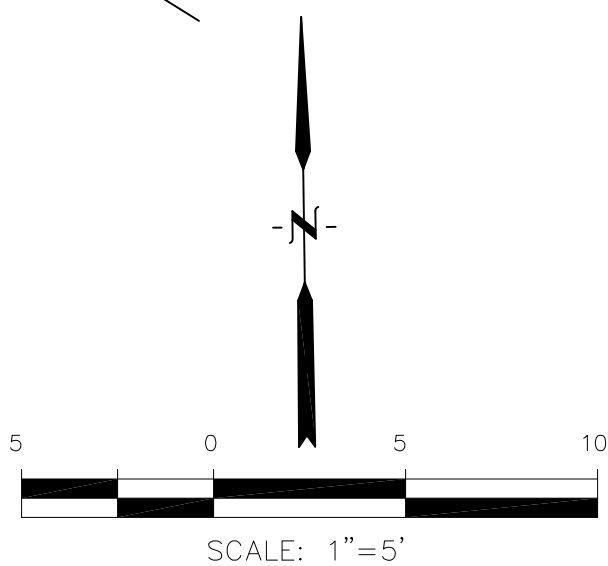
**POND C1  
FOREBAY, LOW FLOW CHANNEL  
AND OUTLET STRUCTURE LAYOUT**

DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

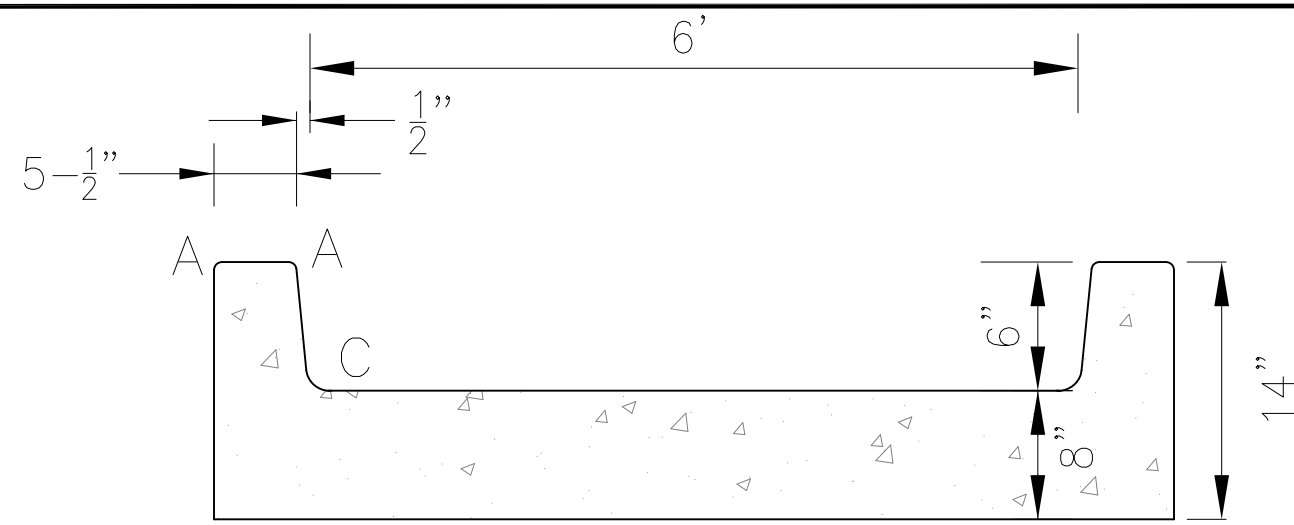
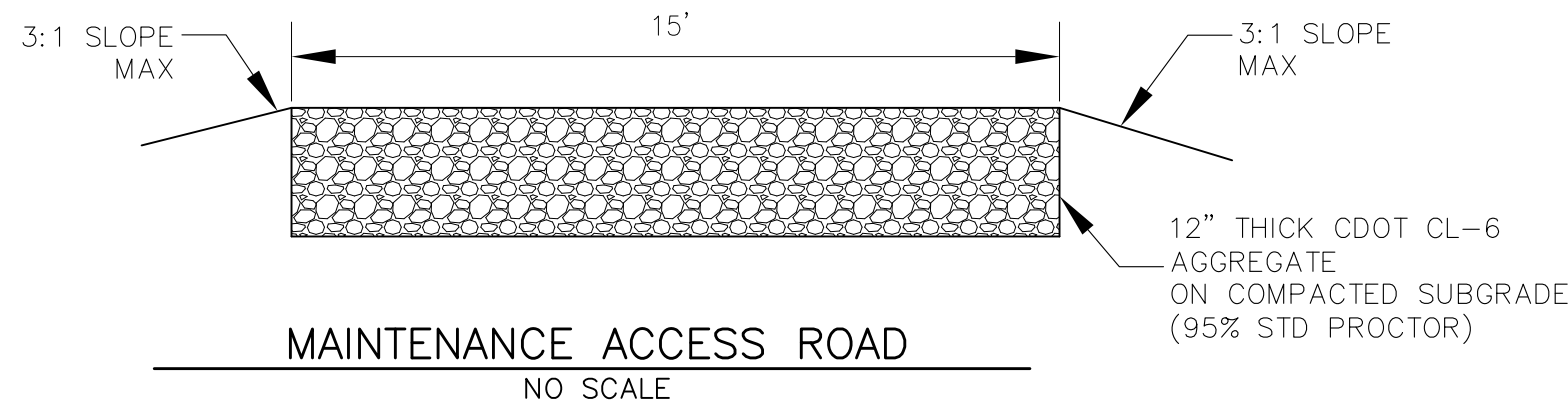
SHEET NUMBER  
**C9.1**

TOTAL SHEETS: 58



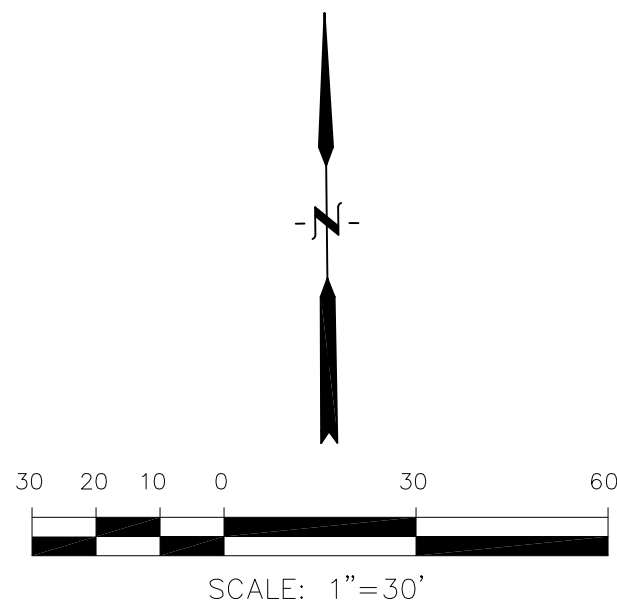
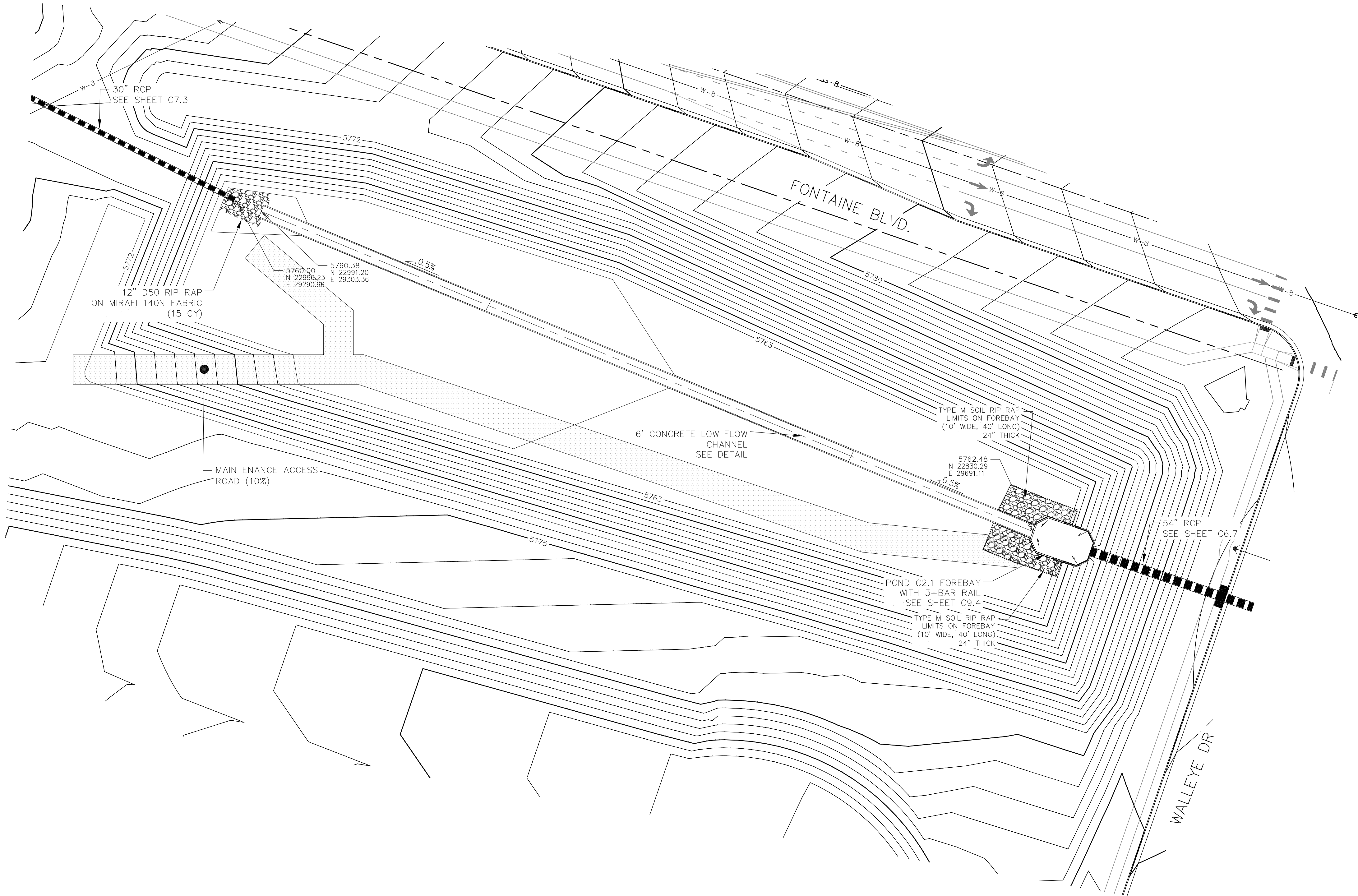
POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	22469.08	28305.90	5746.10	FOREBAY BOTTOM
2	22440.71	28296.15	5746.30	FOREBAY BOTTOM, INV 48"=5747.75





CONCRETE LOW FLOW CHANNEL DETAIL  
NO SCALE

LENGTH FOR RADII
A = 1/2"
C = 1-1/2"



**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNING WOOD, CO 80906  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: \_\_\_\_\_

PROJECT NO: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE., SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

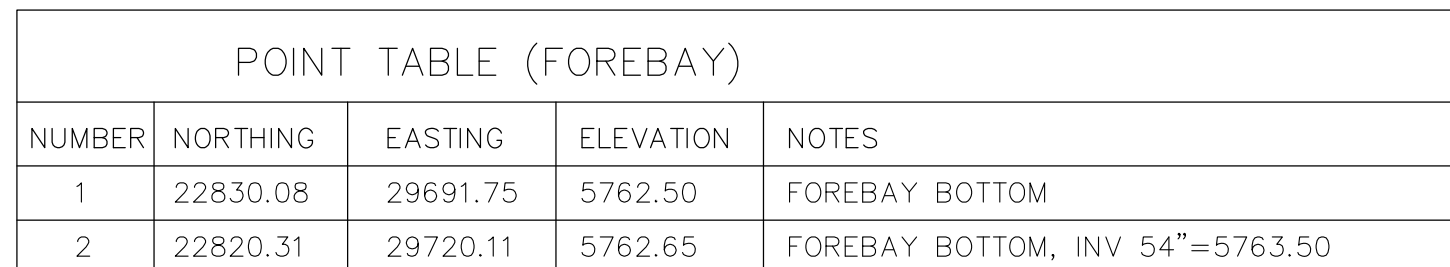
**POND C2.1**  
**FOREBAY AND LOW FLOW CHANNEL**  
**LAYOUT**

DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
**C9.3**

TOTAL SHEETS: 58



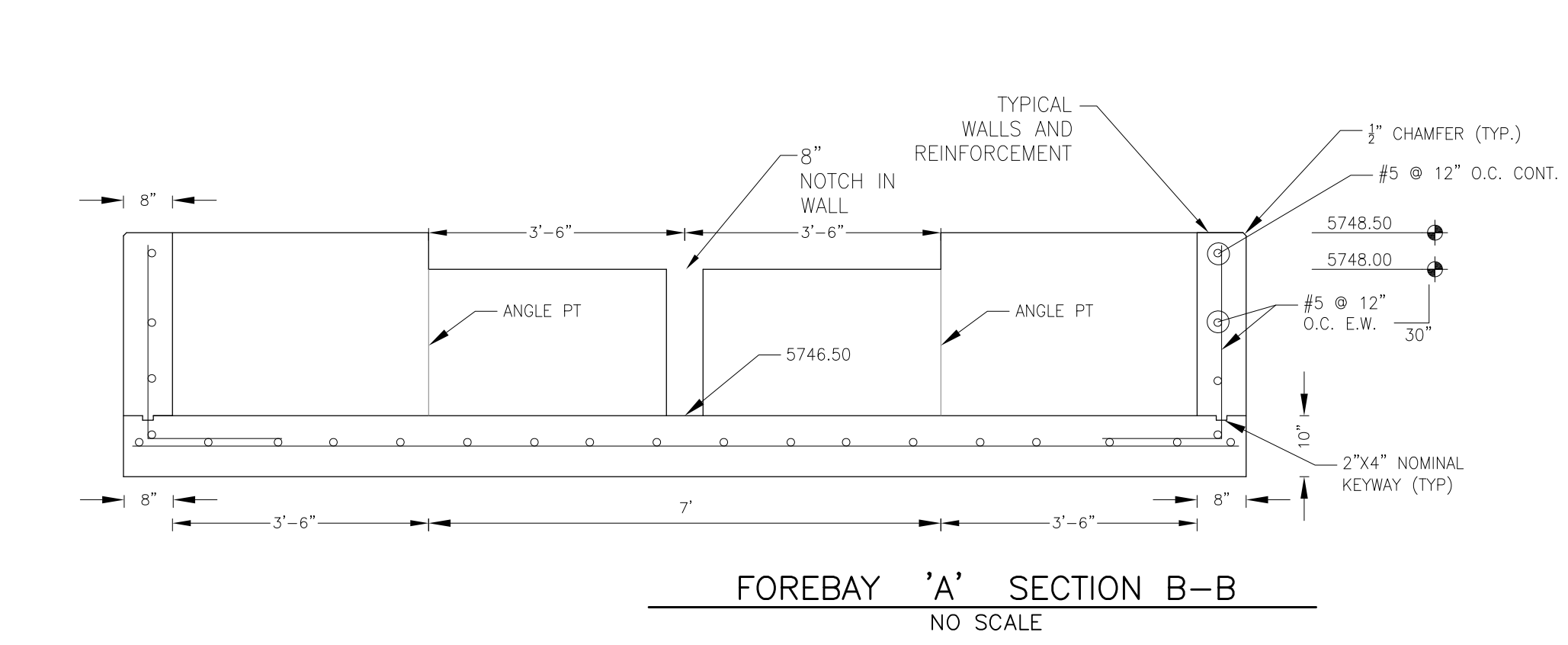
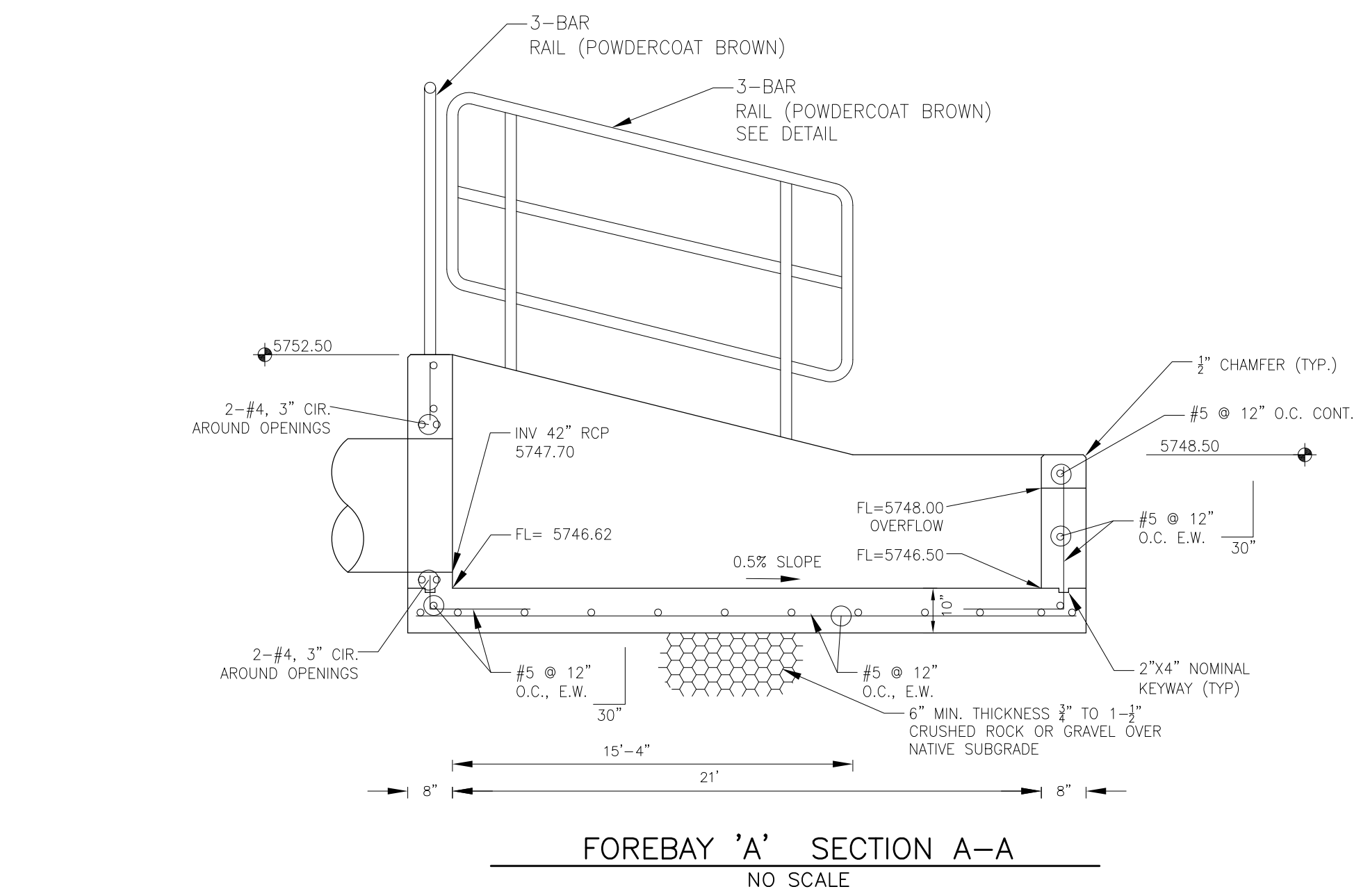
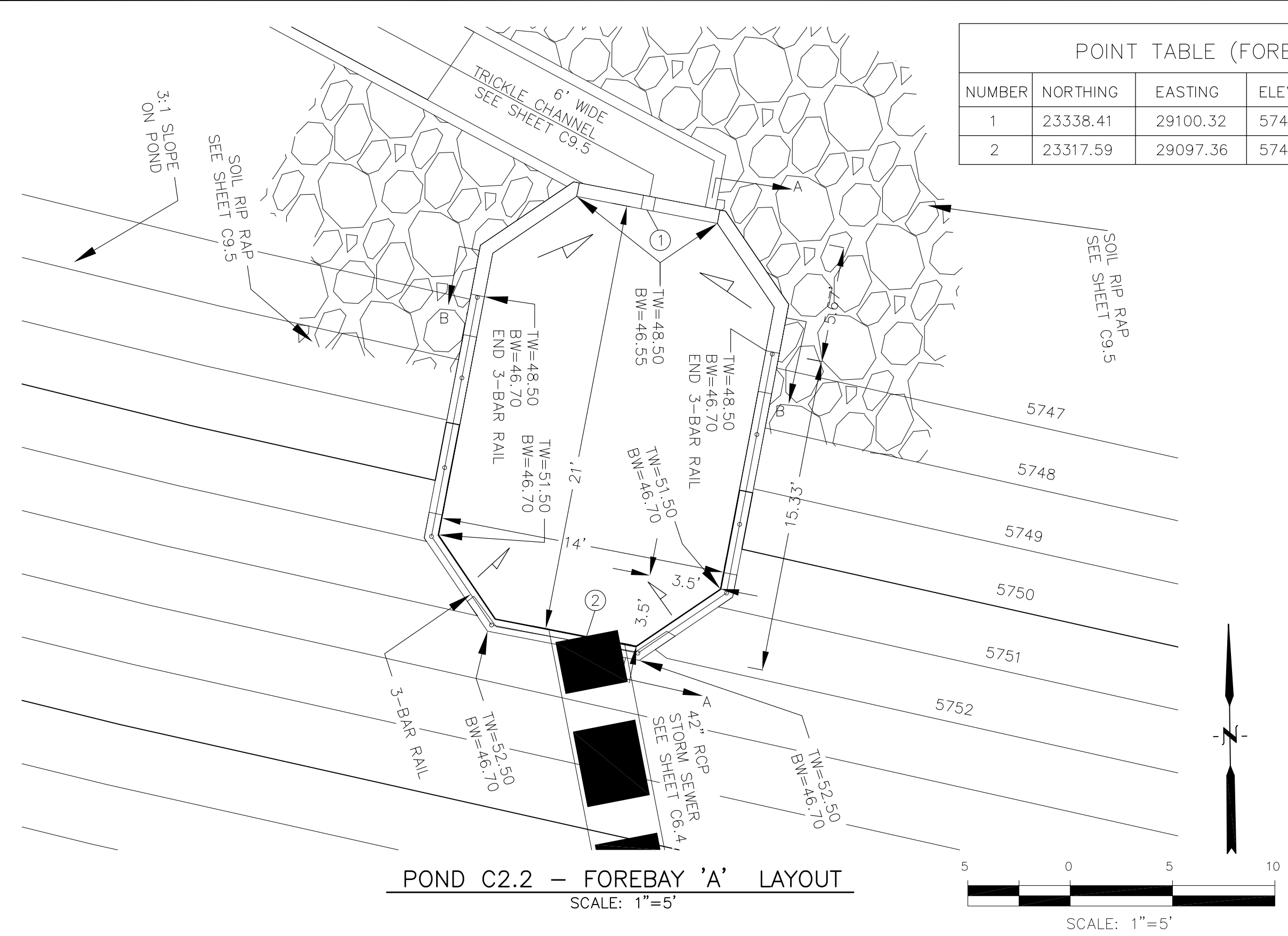
POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	22830.08	29691.75	5762.50	FOREBAY BOTTOM
2	22820.31	29720.11	5762.65	FOREBAY BOTTOM, INV 54"=5763.50

NOTE: ALL CONCRETE  
FOR FOREBAY SHALL BE  
CDOT TYPE D

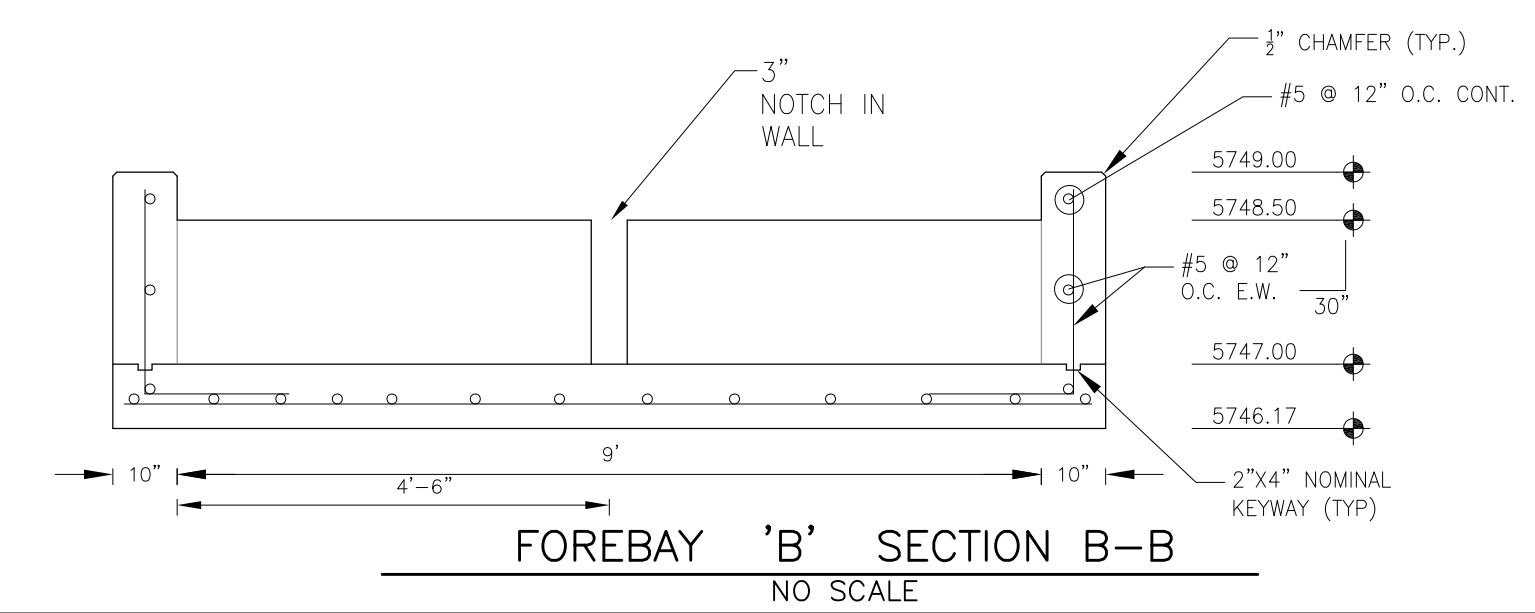
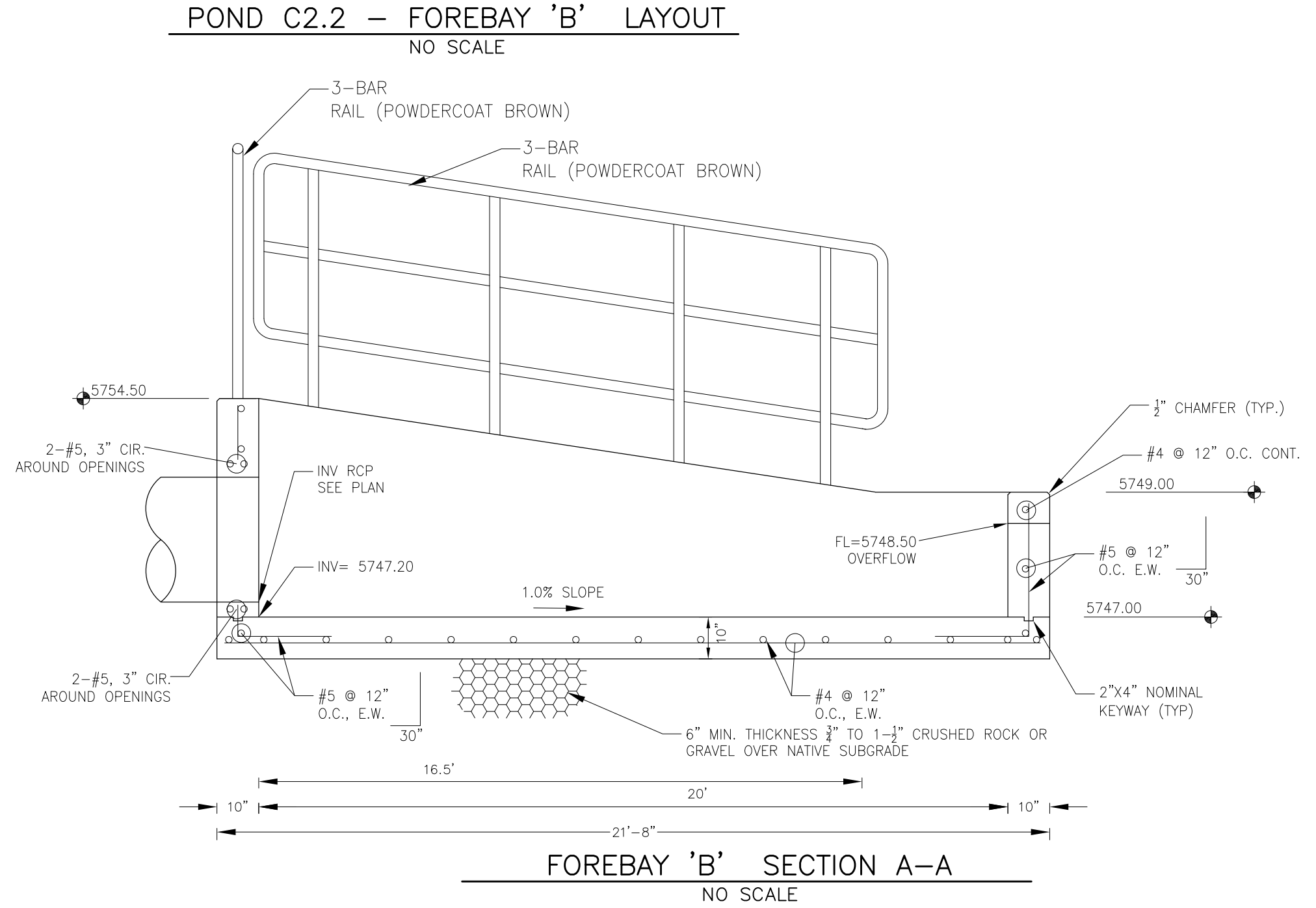
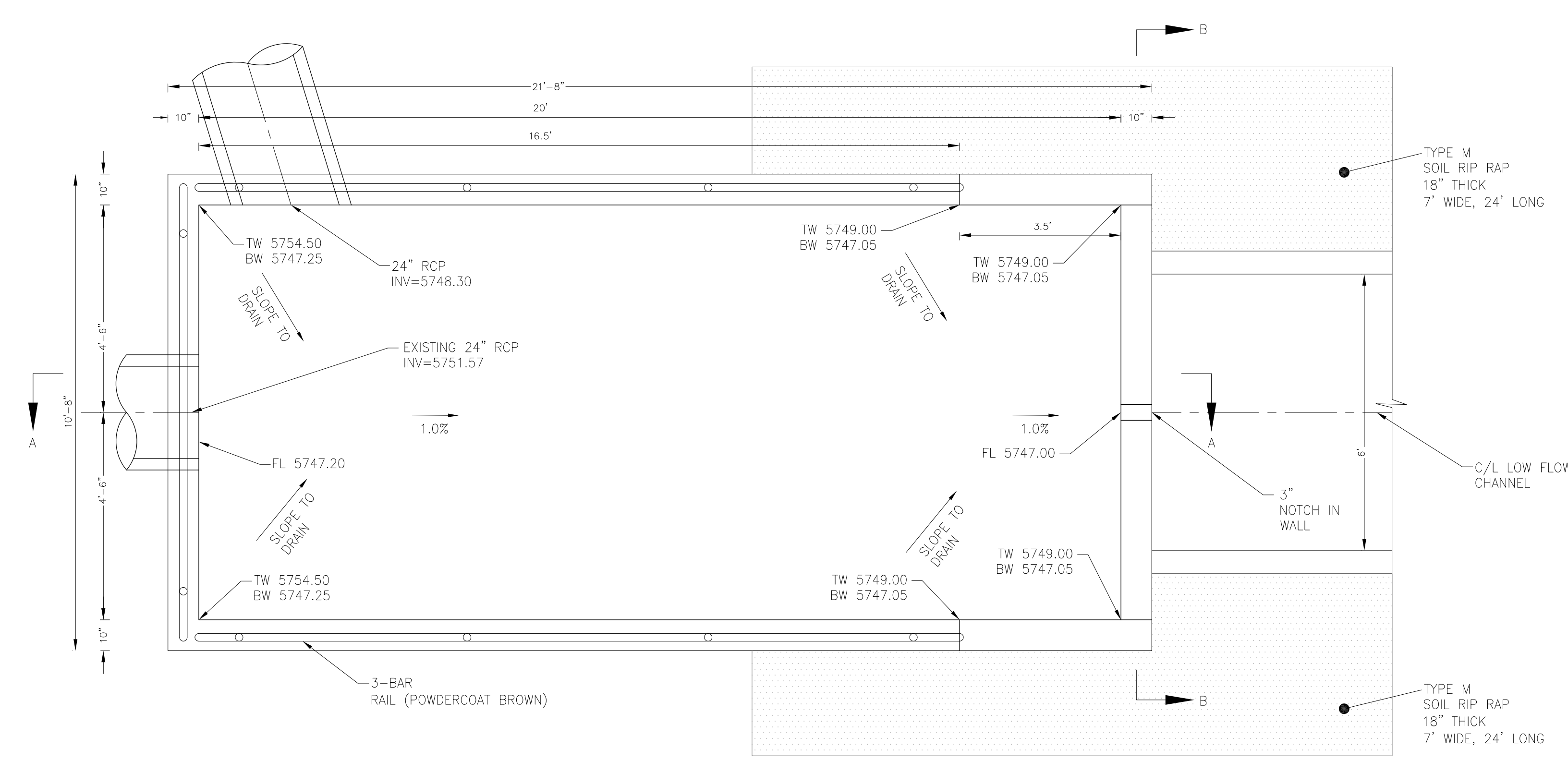




<div> <div>DATE:</div> <div>AUGUST 2, 2020</div> </div>		<div> <div>PROJECT NO.</div> <div>100.061</div> </div>		<div> <div>SHEET NUMBER</div> <div>C9.5</div> </div>		<div> <div>TOTAL SHEETS:</div> <div>58</div> </div>							
<div> <div>POND C2.2 &amp; C2.3</div> <div>FOREBAY, LOW FLOW CHANNEL</div> <div>AND OUTLET STRUCTURE LAYOUT</div> </div>						<div> <div>DRAWN: RLS</div> <div>DESIGNED: RLS</div> <div>CHECKED: RLS</div> </div>		<div> <div>NO.</div> <div></div> <div></div> <div></div> <div></div> </div>		<div> <div>DESCRIPTION</div> <div></div> <div></div> <div></div> <div></div> </div>		<div> <div>DATE</div> <div></div> <div></div> <div></div> <div></div> </div>	
<div> <div>PROJECT:</div> <div>THE HILLS COLLECTOR STREET CONSTRUCTION</div> <div>FONTAINE BLVD - GRAYLING DR</div> <div>LORSON BLVD-WALLEYE DR-LAMPREY DR</div> <div>COLORADO SPRINGS, COLORADO</div> </div>		<div> <div>PREPARED FOR:</div> <div>LORSON, LLC</div> <div>212 N. WAHSATCH AVE., SUITE 301</div> <div>COLORADO SPRINGS, COLORADO 80903</div> <div>(719) 635-3200</div> <div>CONTACT: JEFF MARK</div> </div>		<div> <div>15004 1ST AVENUE S.</div> <div>BURNSVILLE, MN 55506</div> <div>CONTACT: RICHARD L. SCHINDLER, P.E.</div> <div>EMAIL: Rich@ceg1.com</div> </div>		<div> <div><b>CORE</b></div> <div><b>ENGINEERING GROUP</b></div> </div>							



POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	23338.41	29100.32	5746.50	FOREBAY BOTTOM
2	23317.59	29097.36	5746.62	FOREBAY BOTTOM, INV 42"=5747.70



NOTE: ALL CONCRETE  
FOR FOREBAY SHALL BE  
CDOT TYPE D

CORE

ENGINEERING GROUP

15004 1ST AVENUE S.  
BURNING WOOD, CO 80903  
PHONE: 303.550.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE:

DESCRIPTION:

NO:

DRAWN: RLS

DESIGNED: RLS

CHECKED: RLS

PROJECT:

PREPARED FOR:

THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

LORSON, LLC  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

POND C2.2

FOREBAY DETAILS

DATE:

AUGUST 2, 2020

PROJECT NO.

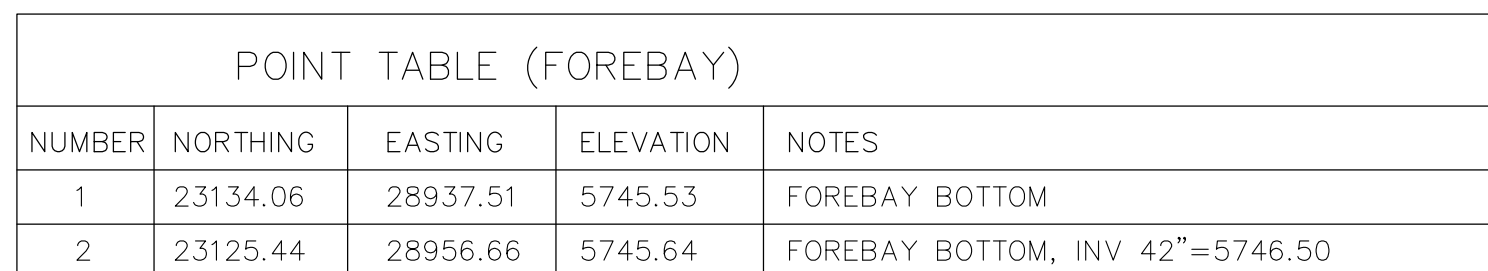
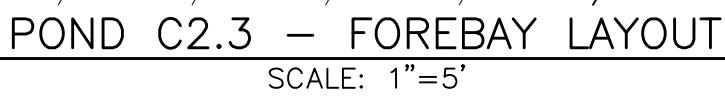
100.061

SHEET NUMBER

C9.6

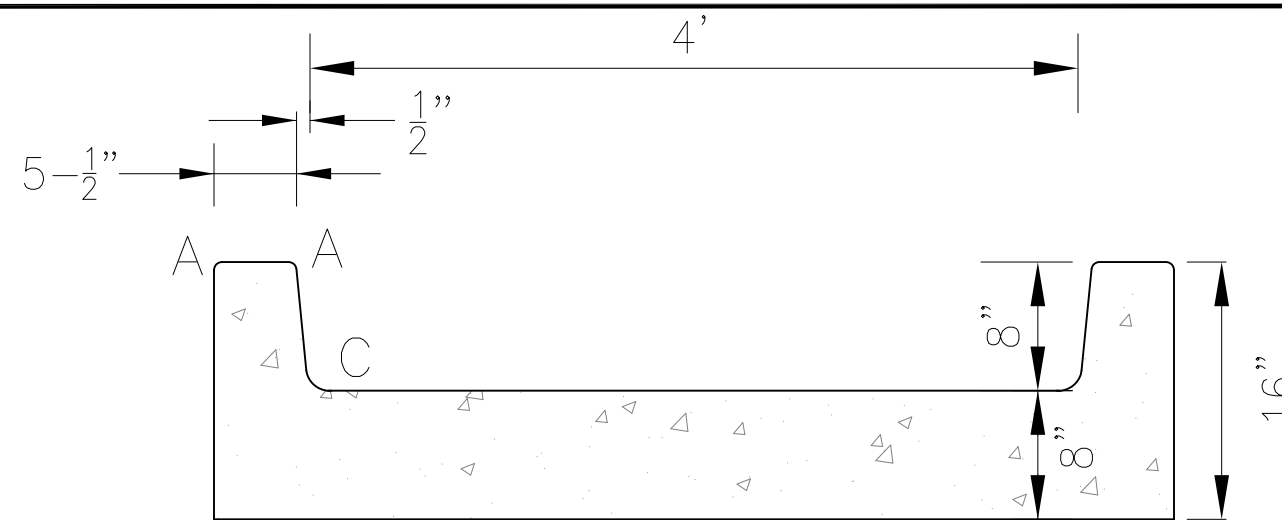
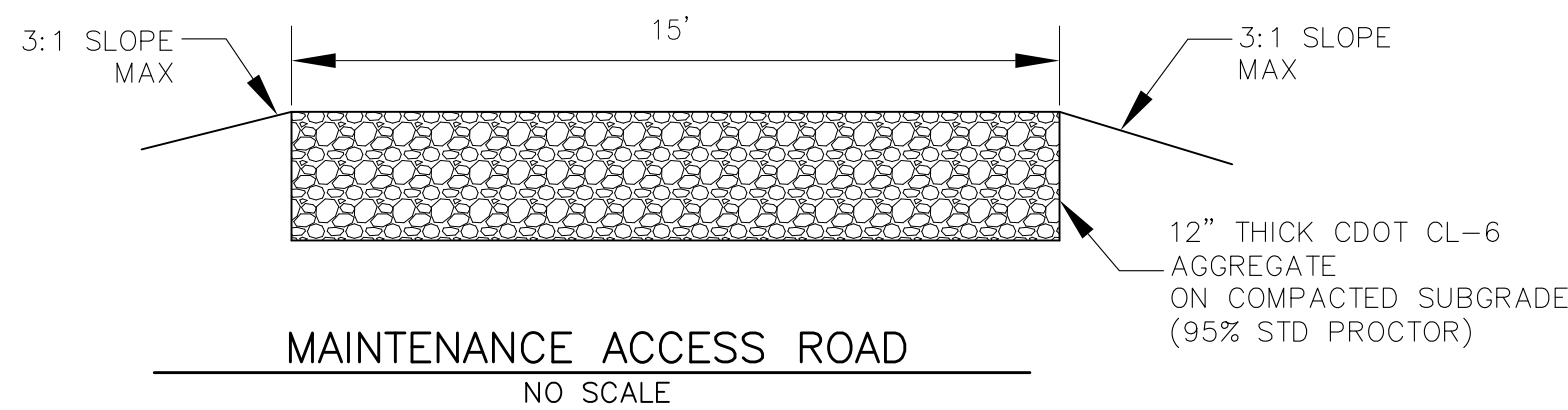
TOTAL SHEETS: 58





POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	23134.06	28937.51	5745.53	FOREBAY BOTTOM
2	23125.44	28956.66	5745.64	FOREBAY BOTTOM, INV 42"=5746.50

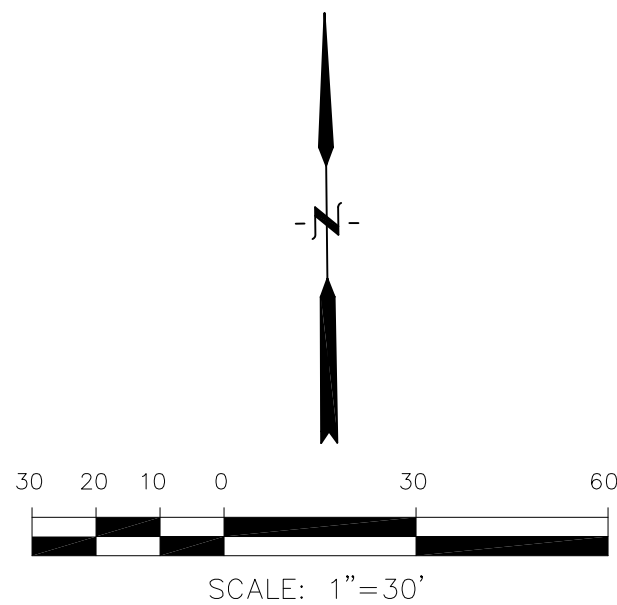
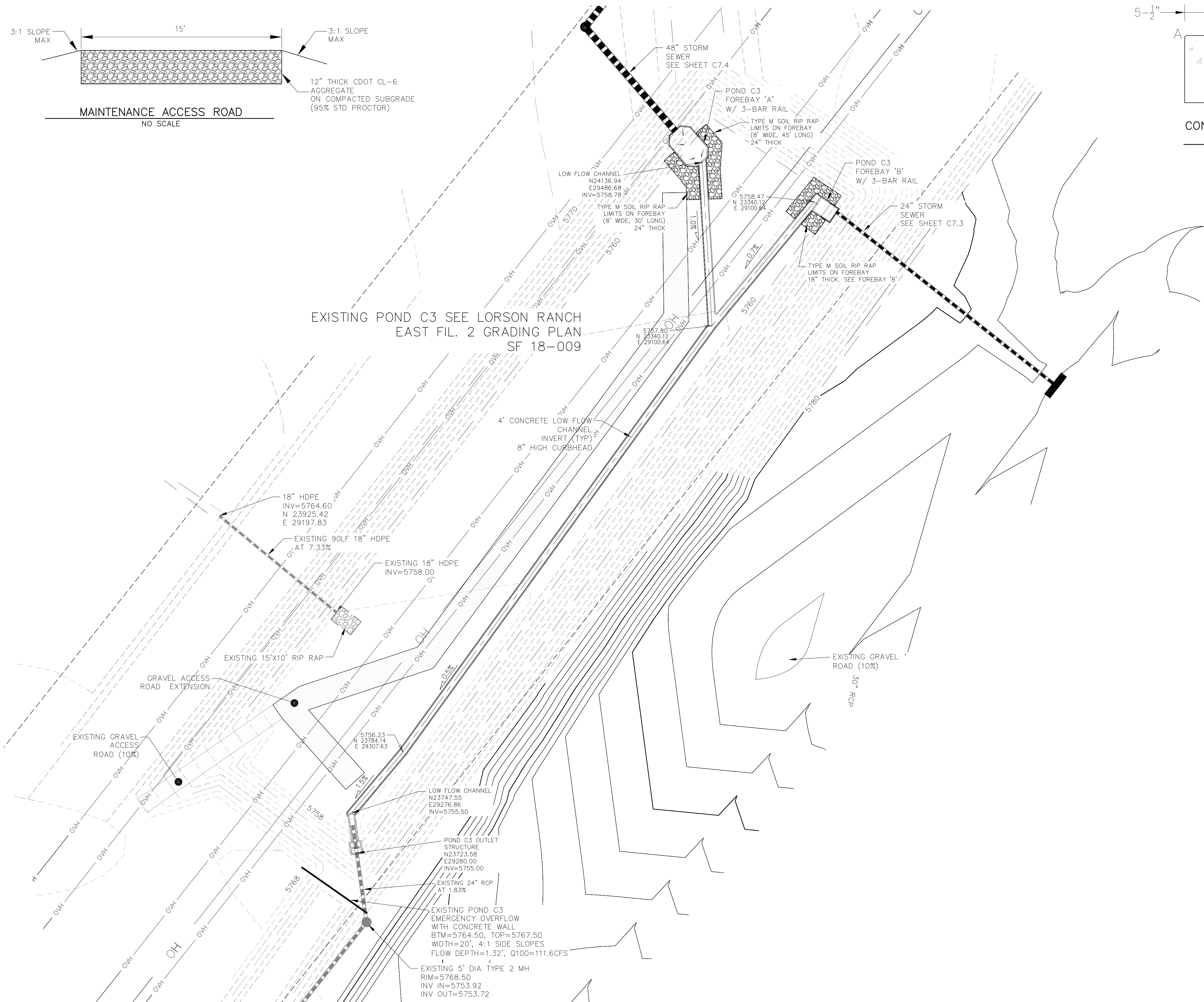
NOTE: ALL CONCRETE  
FOR FOREBAY SHALL BE  
CDOT TYPE D



CONCRETE LOW FLOW CHANNEL  
WITH 8" CURBHEAD  
NO SCALE

LENGTH FOR RADII
A = 1/2"
C = 1-1/2"

EXISTING POND C3 SEE LORSON RANCH  
EAST FIL. 2 GRADING PLAN  
SF 18-009



CORE

ENGINEERING GROUP

15004 1ST AVENUE S.  
BURNING WOOD, CO 80903  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE

DESCRIPTION

NO.

DRAWN: RLS

DESIGNED: RLS

CHECKED: RLS

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:

THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DATE:

AUGUST 2, 2020

PROJECT NO.

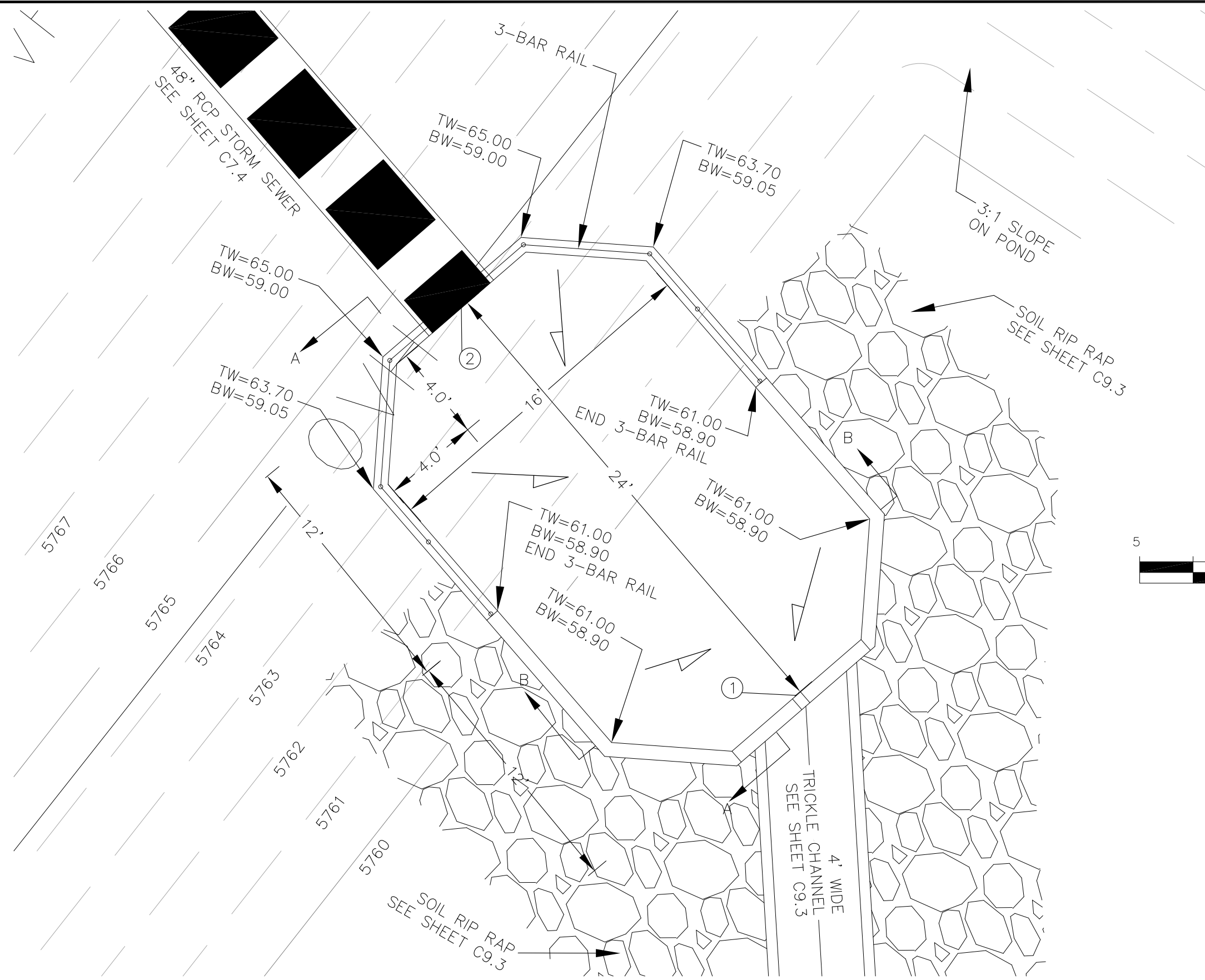
100.061

SHEET NUMBER

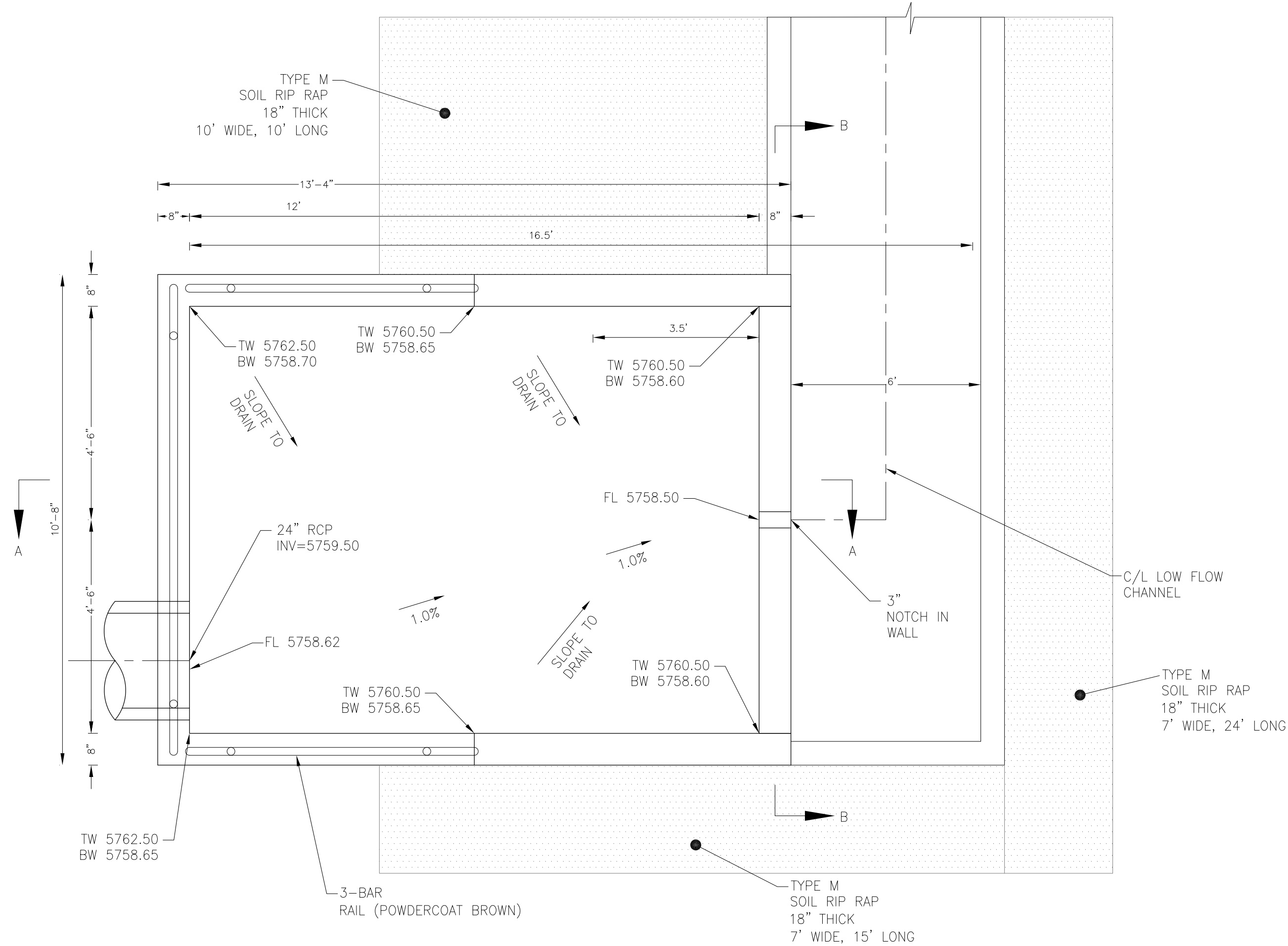
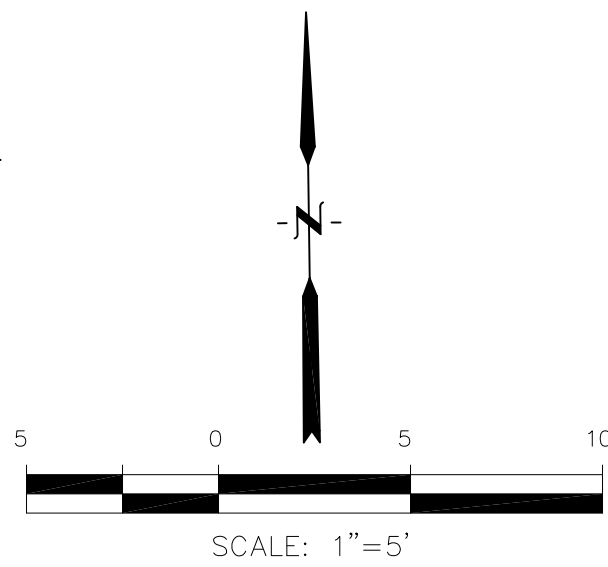
C9.8

TOTAL SHEETS: 58

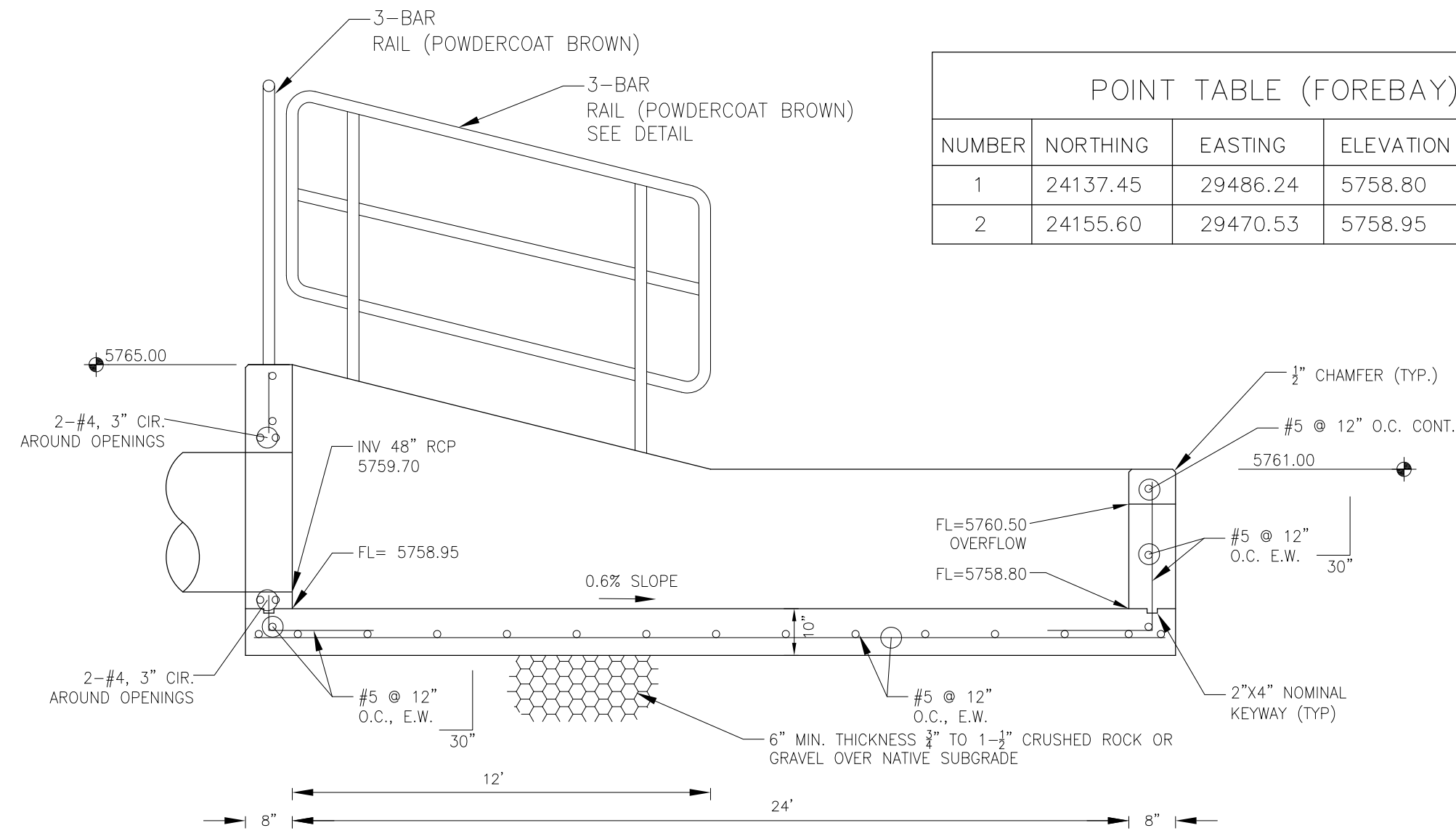




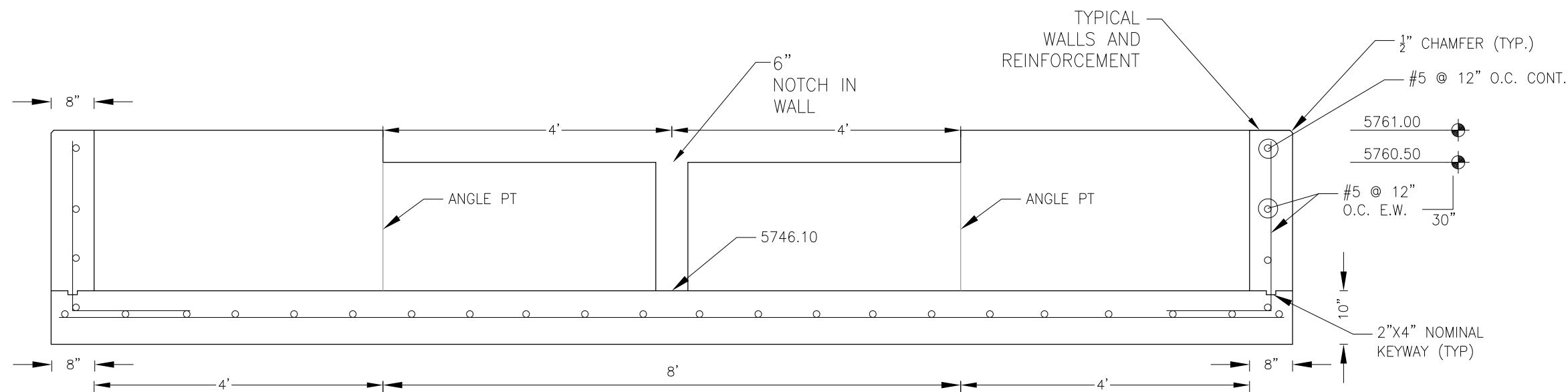
POND C3 – FOREBAY 'A' LAYOUT  
SCALE: 1"=5'



POND C3 – FOREBAY 'B' LAYOUT  
SCALE: 1"=5'

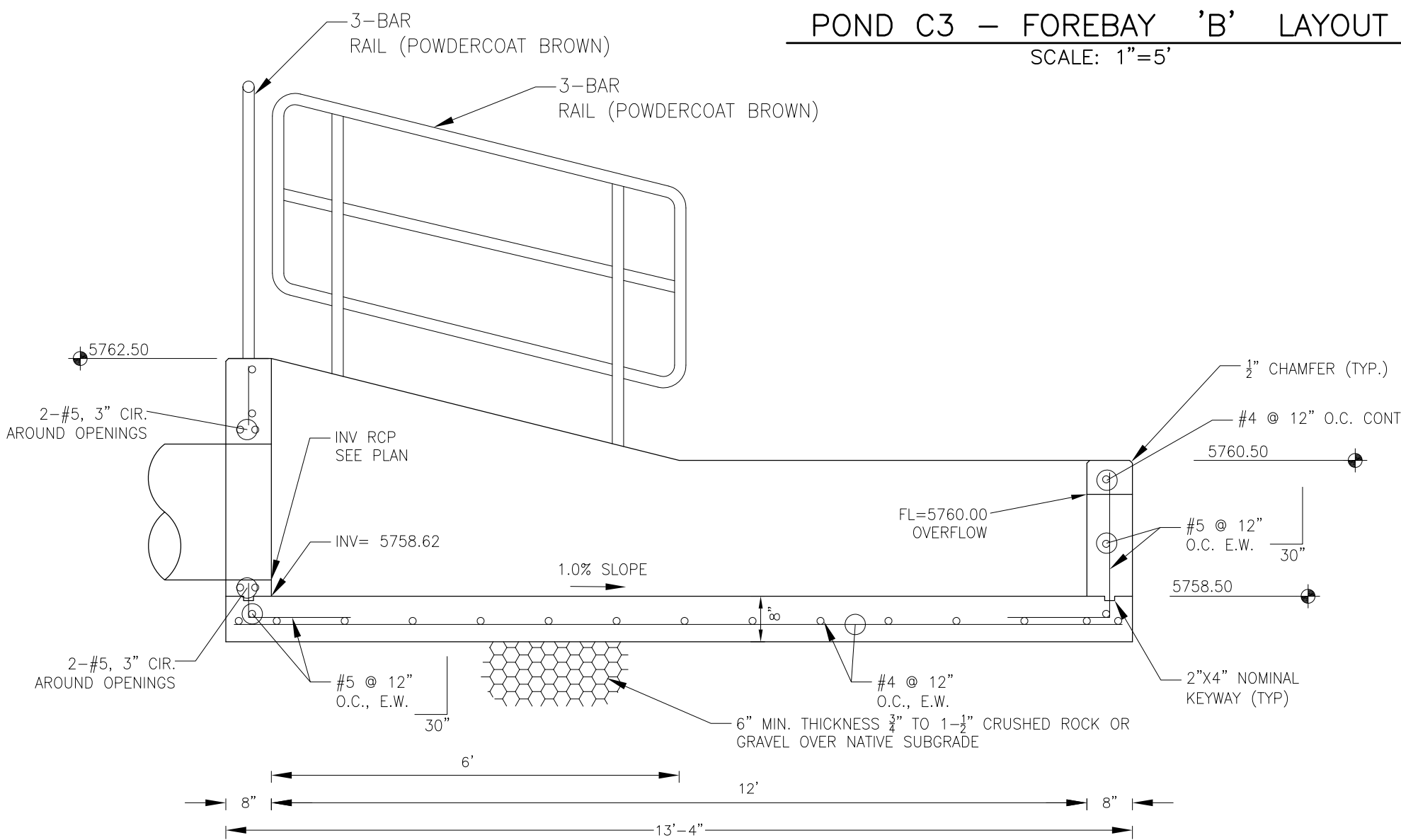


FOREBAY 'A' SECTION A-A  
NO SCALE

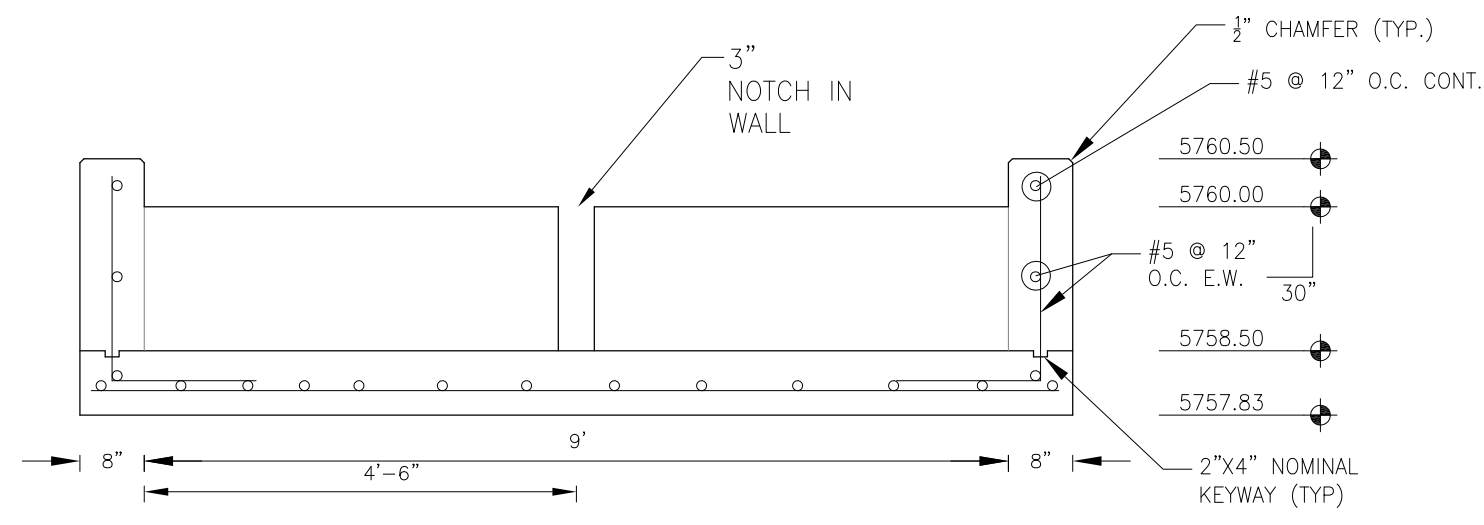


FOREBAY 'A' SECTION B-B  
NO SCALE

POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	24137.45	29486.24	5758.80	FOREBAY BOTTOM
2	24155.60	29470.53	5758.95	FOREBAY BOTTOM, INV 48\"=5759.70



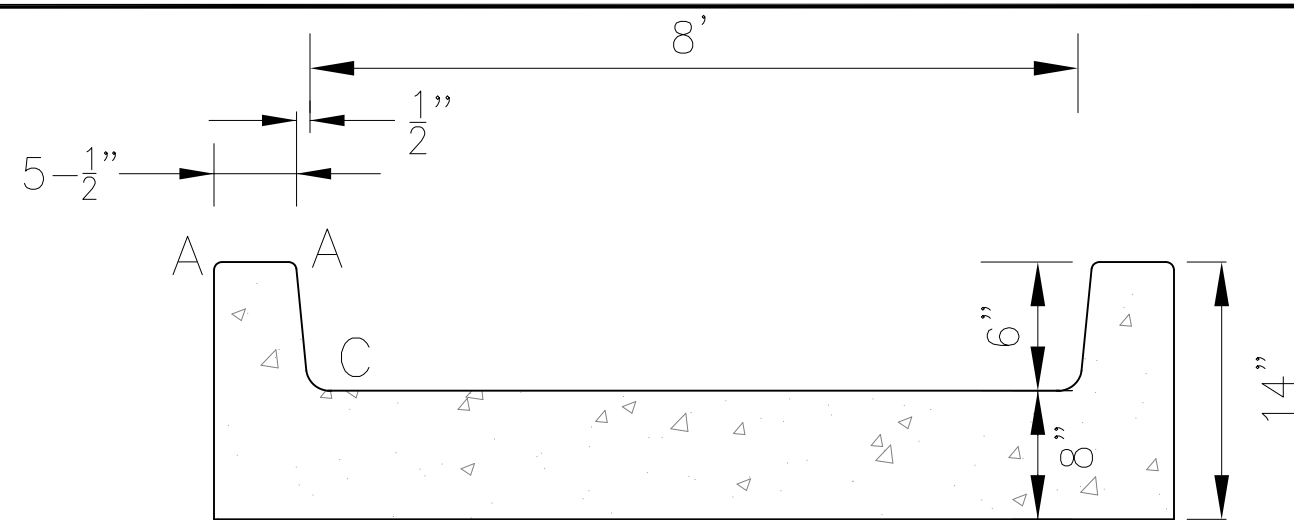
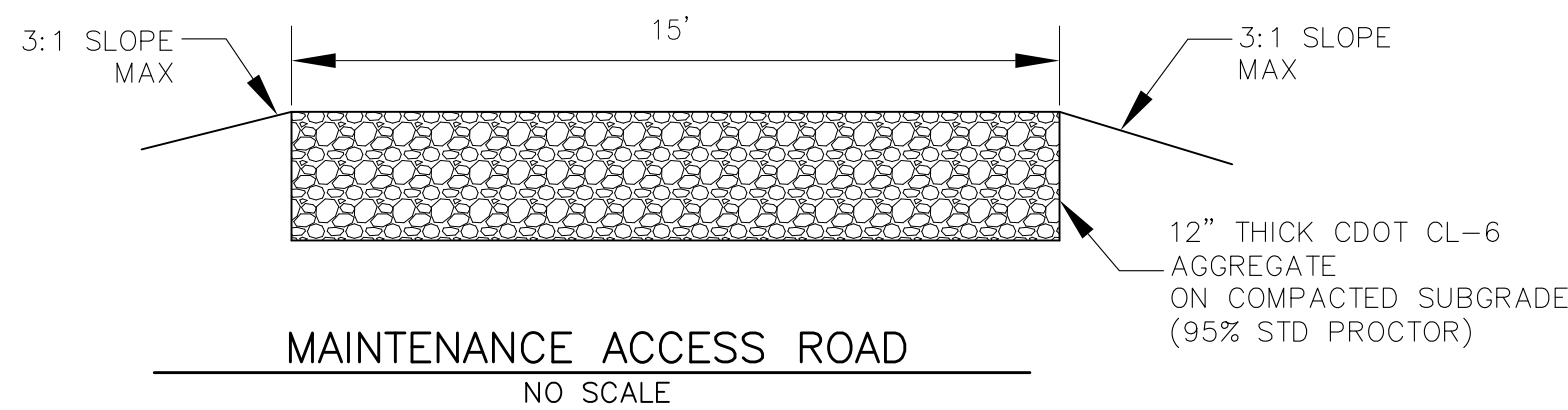
FOREBAY 'B' SECTION A-A  
NO SCALE



FOREBAY 'B' SECTION B-B  
NO SCALE

NOTE: ALL CONCRETE  
FOR FOREBAY SHALL BE  
CDOT TYPE D

CORE ENGINEERING GROUP 15004 1ST AVENUE S. BURNING WOOD, CO 80903 PHONE: 303.553.0600 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	DATE	
	DESCRIPTION	
	NO.	
	DRAWN: RLS DESIGNED: RLS CHECKED: RLS	
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 LORSON BLVD-WALLEYE DR-LAMPREY DR COLORADO SPRINGS, COLORADO CONTACT: JEFF MARK	PREPARED FOR: LORSON, LLC 212 N. WAHSATCH AVE. SUITE 301 COLORADO SPRINGS, COLORADO 80903 (719) 635-3200 CONTACT: JEFF MARK	
POND C3 FOREBAY DETAILS		
DATE: AUGUST 2, 2020		
PROJECT NO. 100.061		
SHEET NUMBER C9.9		
TOTAL SHEETS: 58		



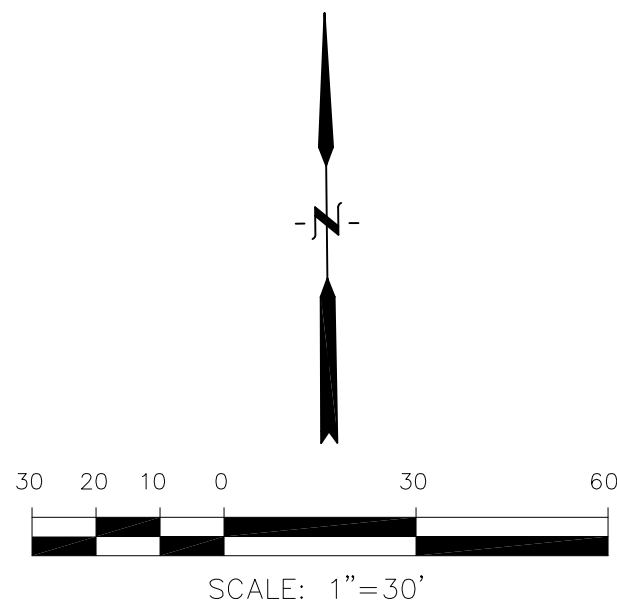
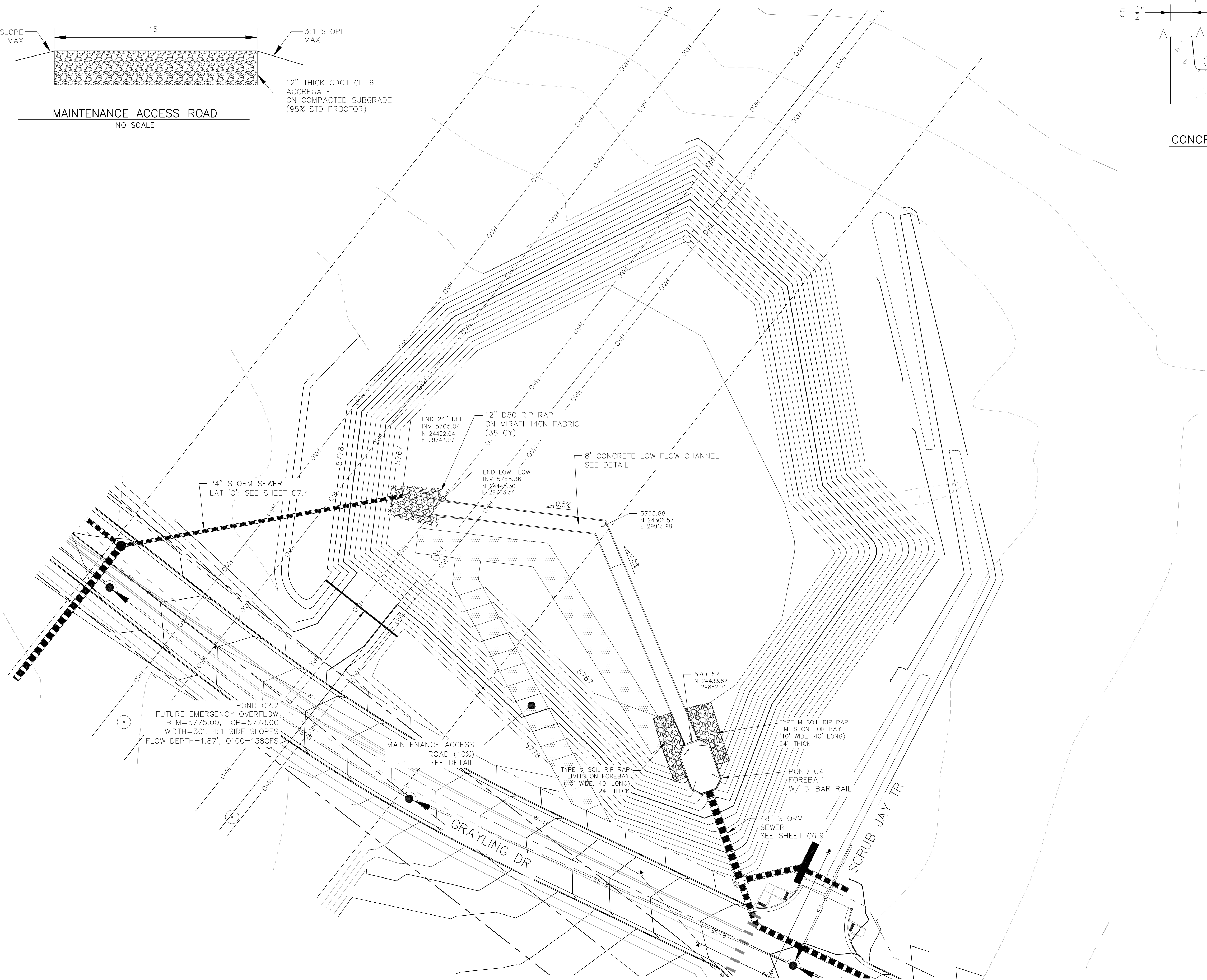
CONCRETE LOW FLOW CHANNEL DETAIL

NO SCALE

LENGTH FOR RADII

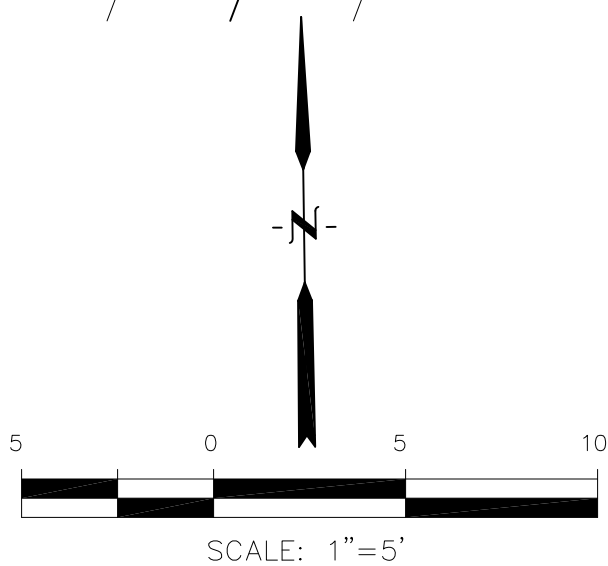
A = 1/2"

C = 1-1/2"

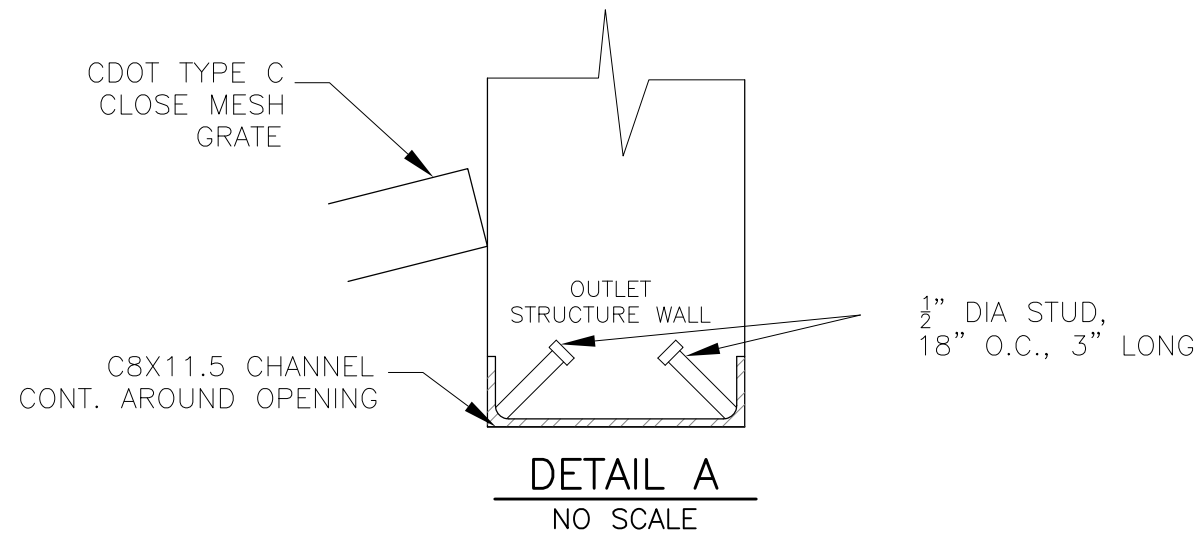


<b>CORE</b> <b>ENGINEERING GROUP</b> 15004 1ST AVENUE S. BURNING WOOD, CO 80906 PHONE: 719.570.1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	
DATE:	
DESCRIPTION:	
NO:	
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION LORSON, LLC 212 N. WAHSATCH AVE., SUITE 301 COLORADO SPRINGS, COLORADO 80903 LORSON BLVD-WALLEYE DR-LAMPREY DR COLORADO SPRINGS, COLORADO CONTACT: JEFF MARK	
DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS
POND C4 FOREBAY & LOW FLOW CHANNEL LAYOUT	
DATE: AUGUST 2, 2020	
PROJECT NO. 100.061	
SHEET NUMBER C9.10	
TOTAL SHEETS: 58	

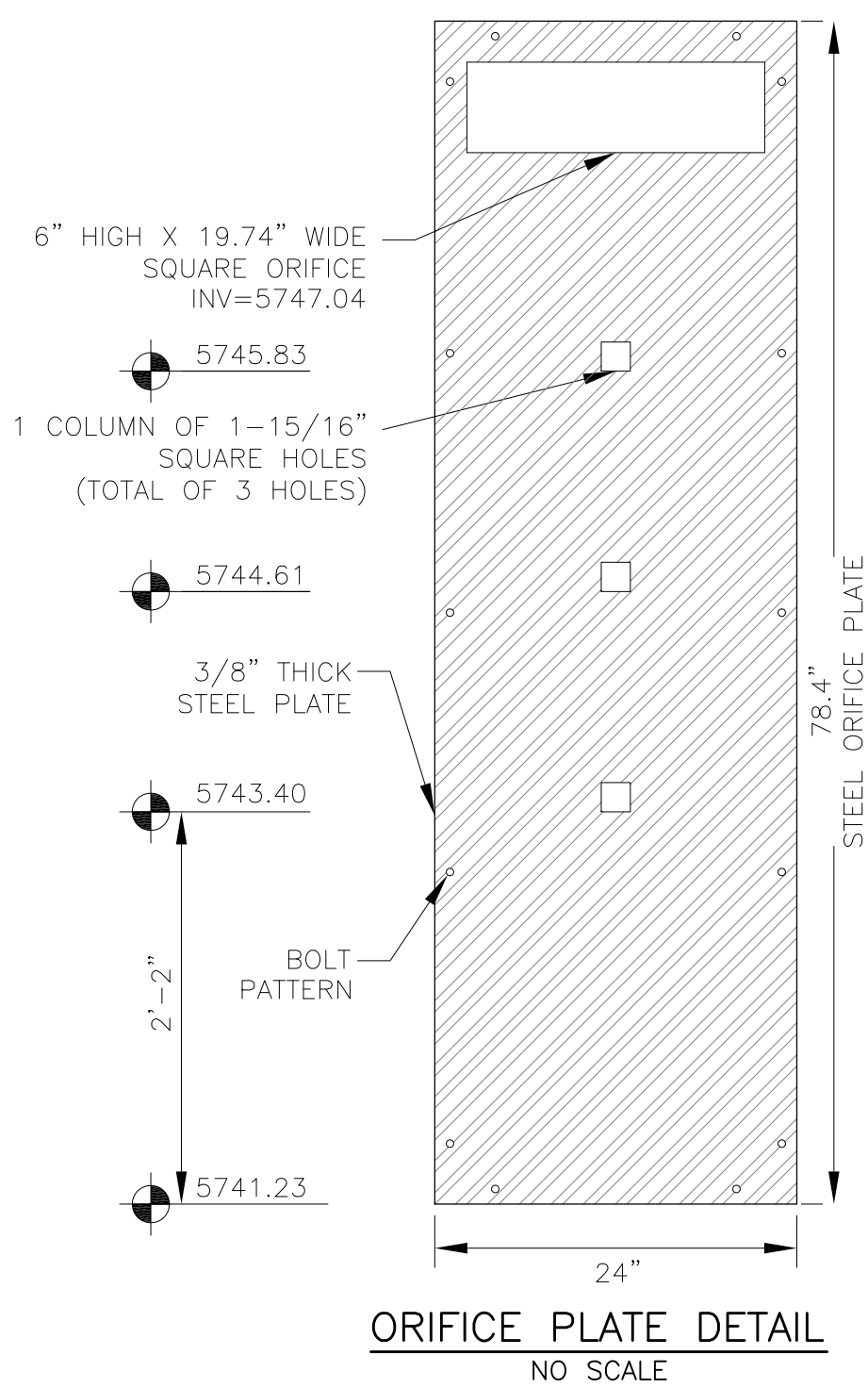
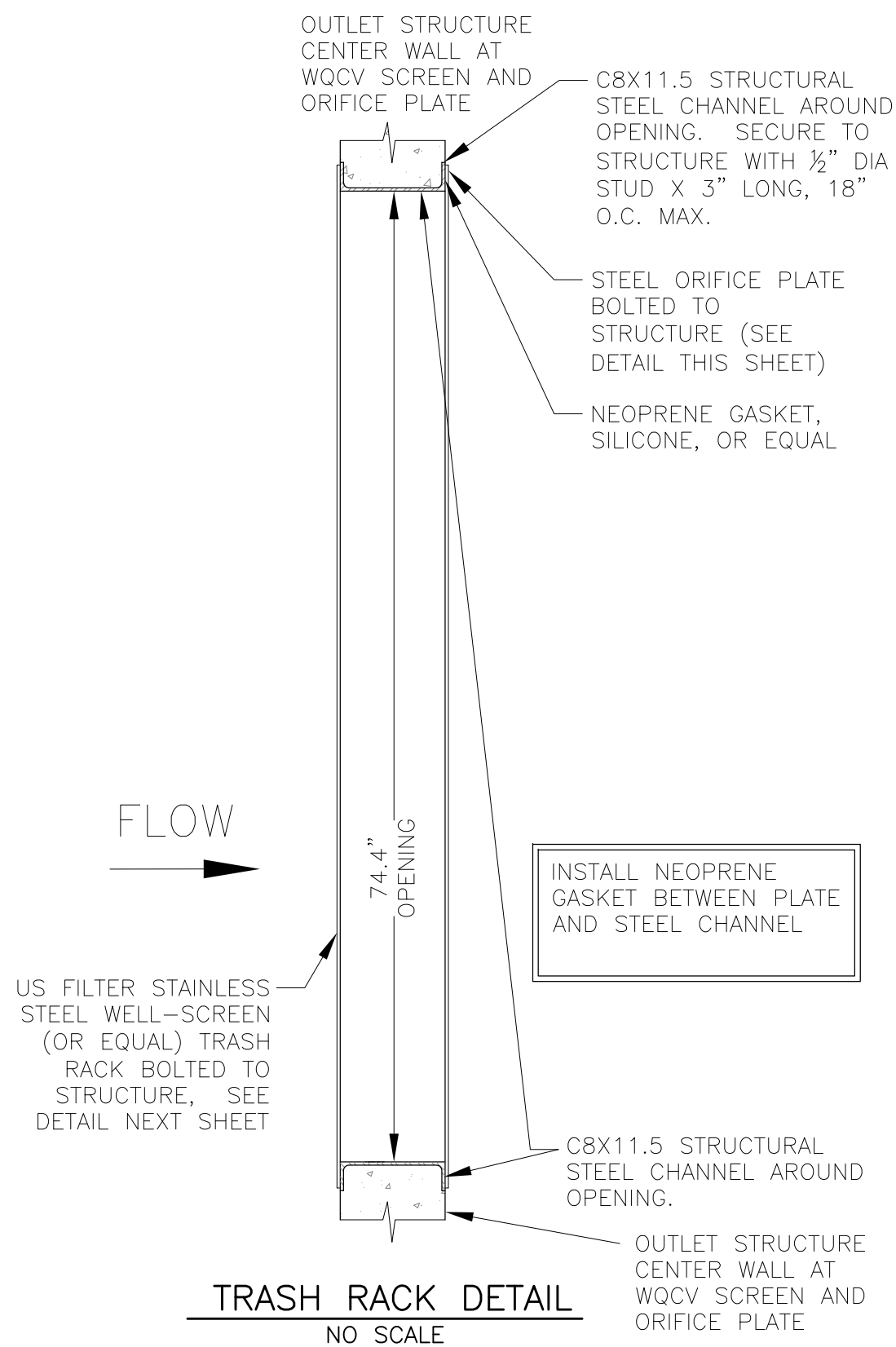
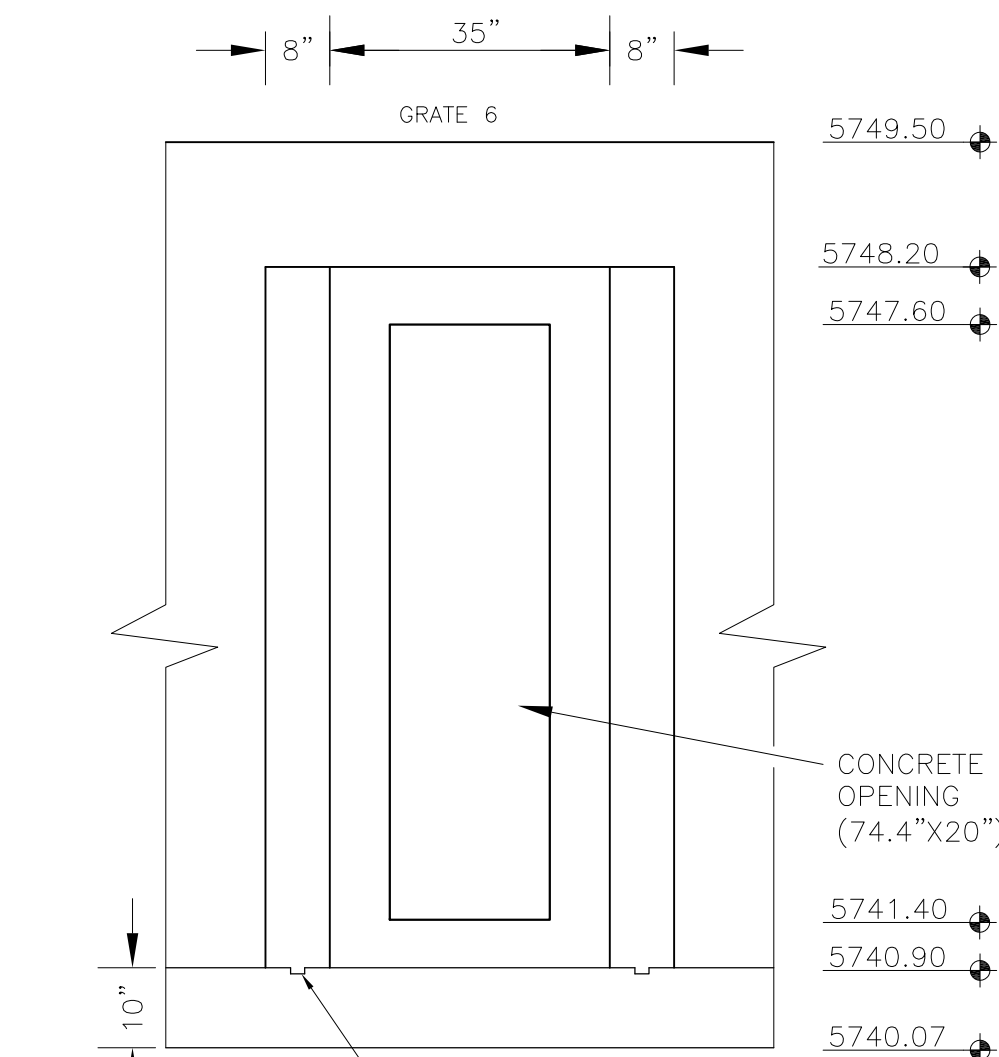
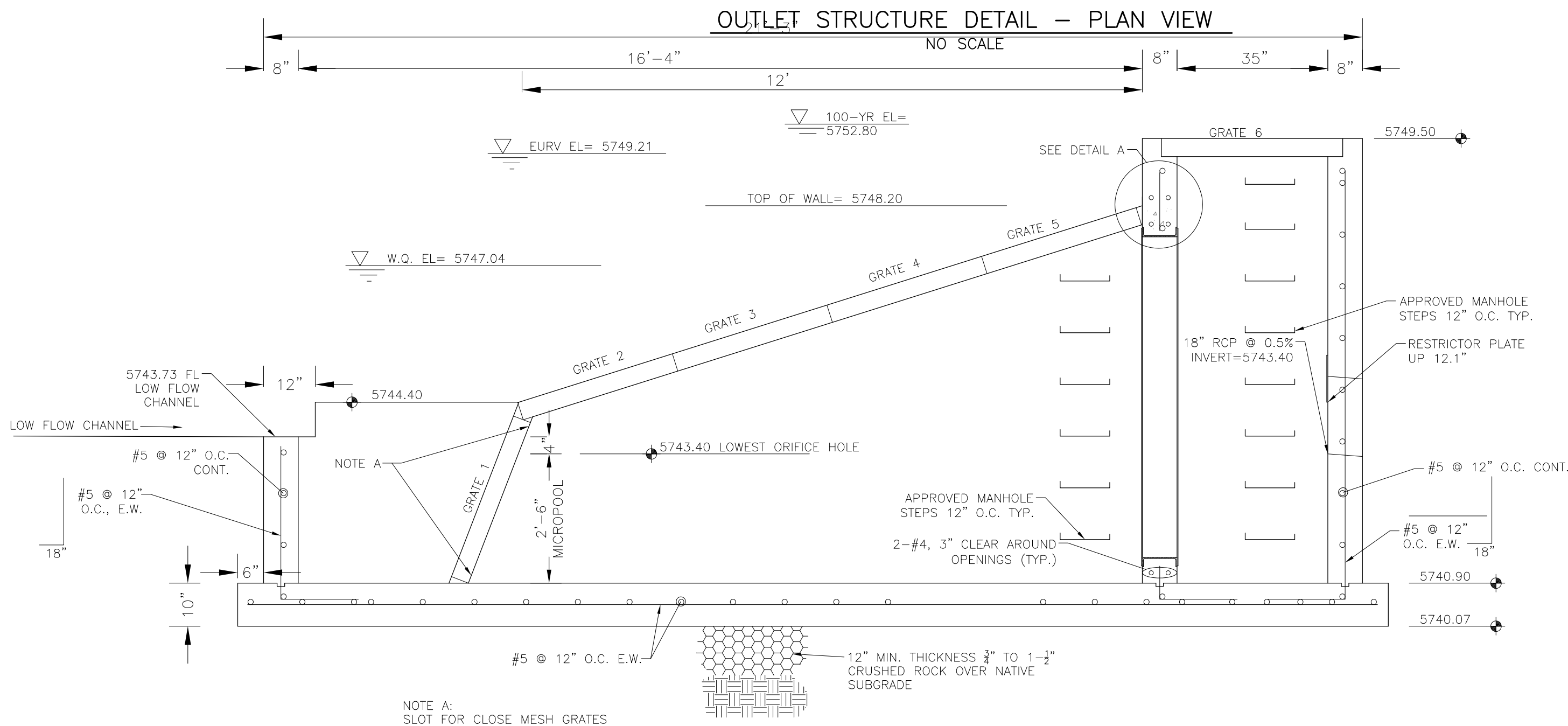
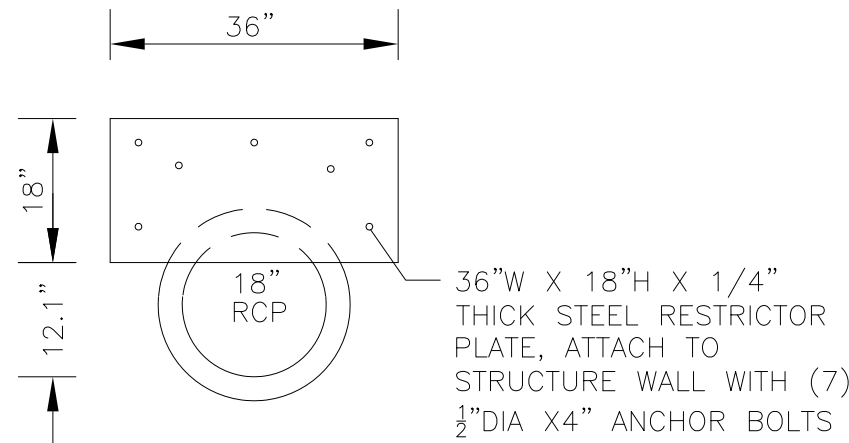
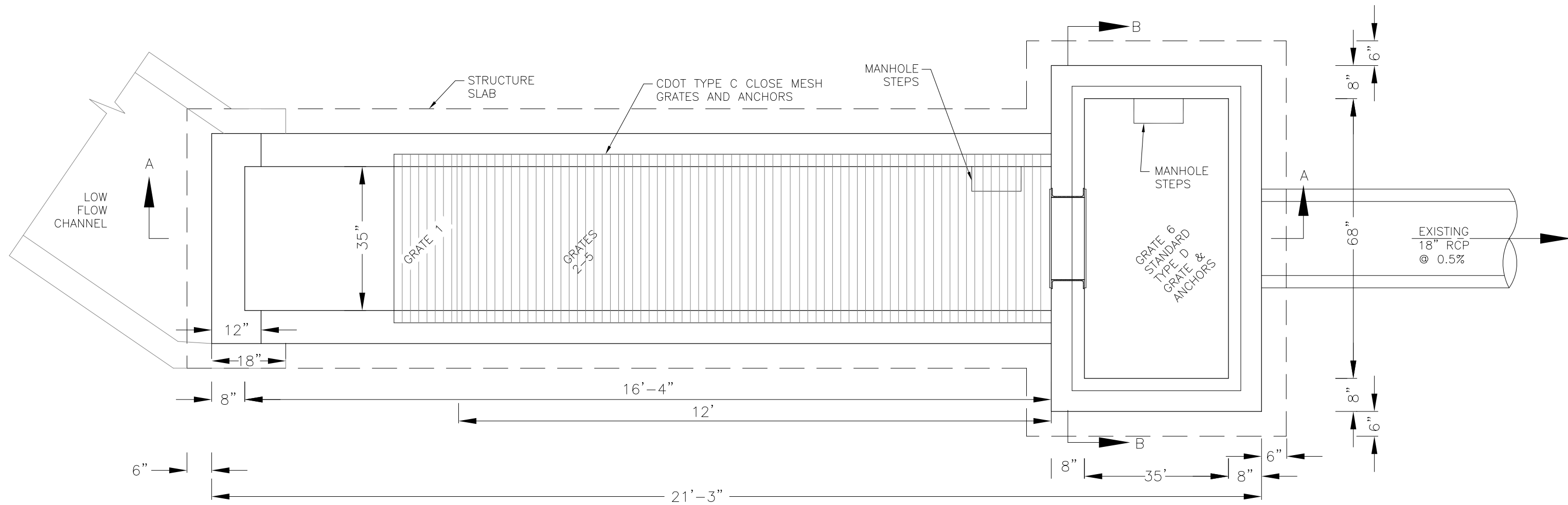
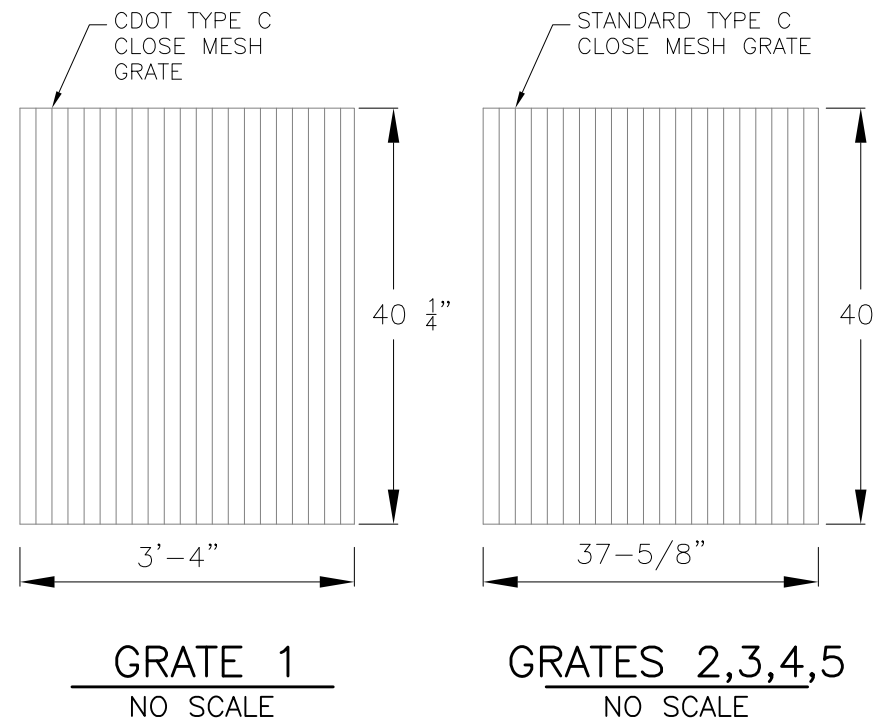




NOTE: ALL CONCRETE  
FOR FOREBAY SHALL BE  
CDOT TYPE D



NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION



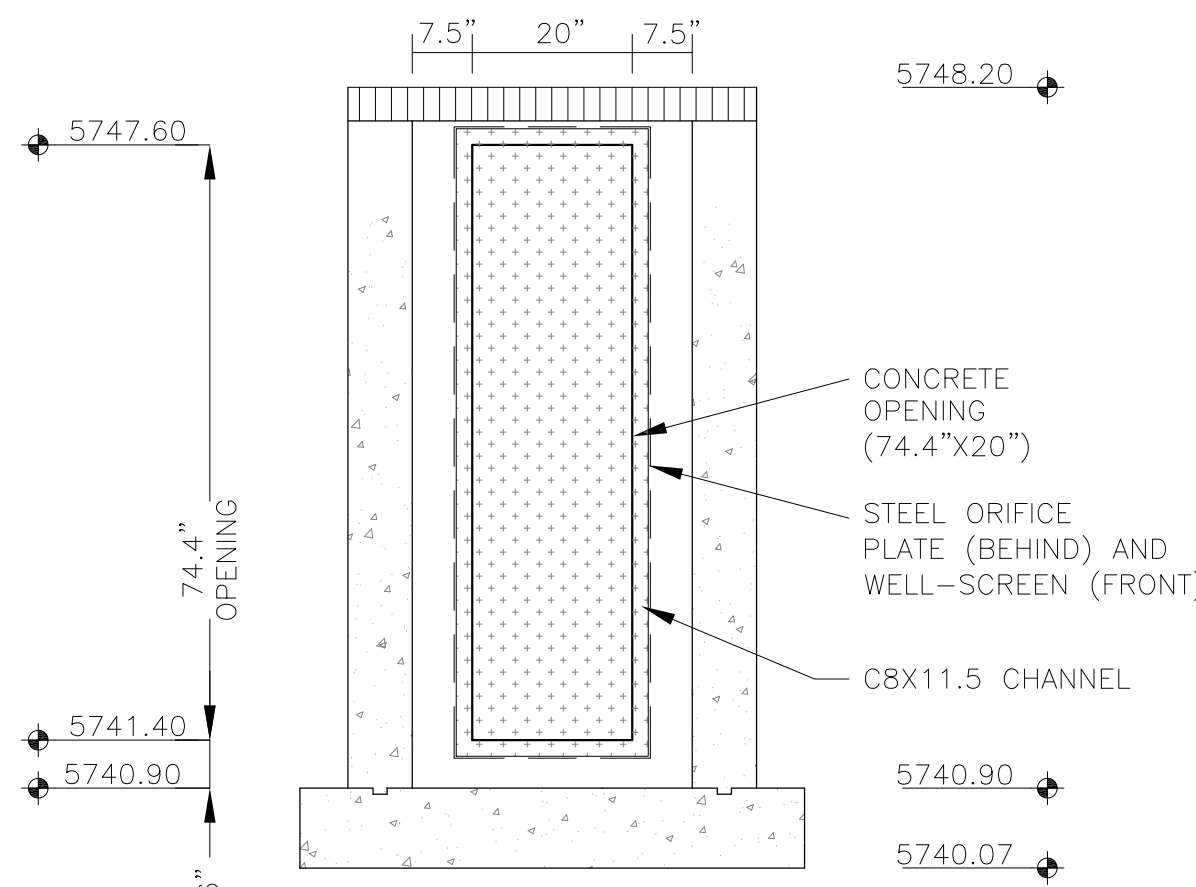
### OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
- GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
- CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
- EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/8" CHAMFER UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
- REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
- ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

BAR SIZE	#4	#5	#6
MIN. SPLICE LENGTH	1'-3"	1'-7"	2'-0"

#### WQCV WELL-SCREEN NOTES:

- Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
- WQCV Well Screen
  - Type of Screen: Stainless steel #93 Vee Wire (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
  - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
  - Type and Size of Support Rod: TE 0.074"x0.50"
  - Spacing of Support Rod (O.C.): 1.0 Inch
  - Total Screen Thickness: 0.655"
  - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle



**CORE**  
ENGINEERING GROUP

15004 1ST AVENUE S.  
BURNING WOOD, CO 80903  
PHONE: 303.553.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE

DESCRIPTION

NO.

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - VALLEY DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

POND C1

FULL SPECTRUM

OUTLET STRUCTURE DETAILS

DATE:

AUGUST 2, 2020

PROJECT NO.

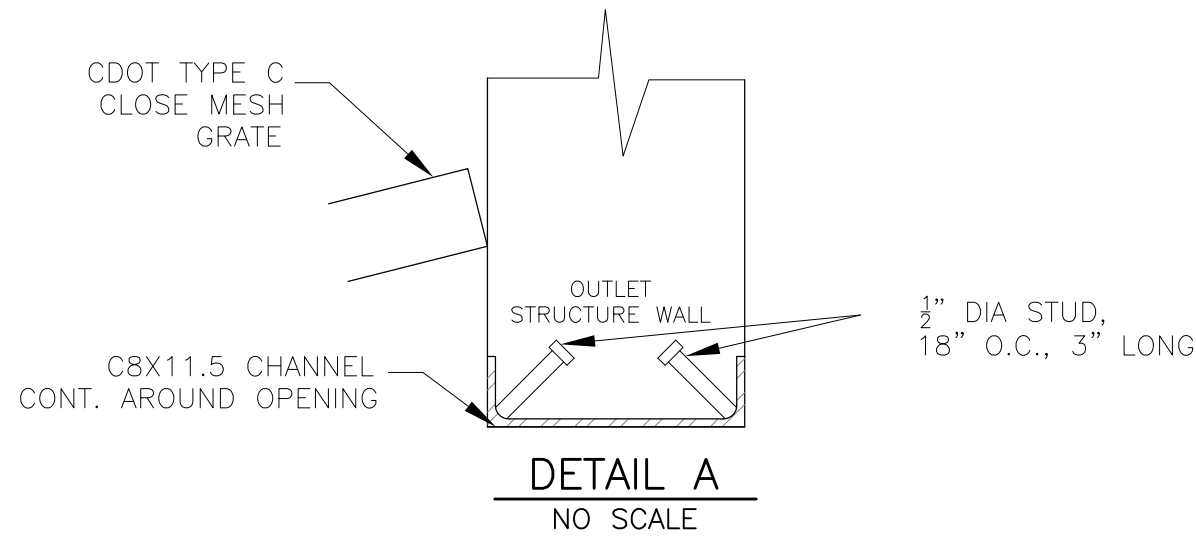
100.061

SHEET NUMBER

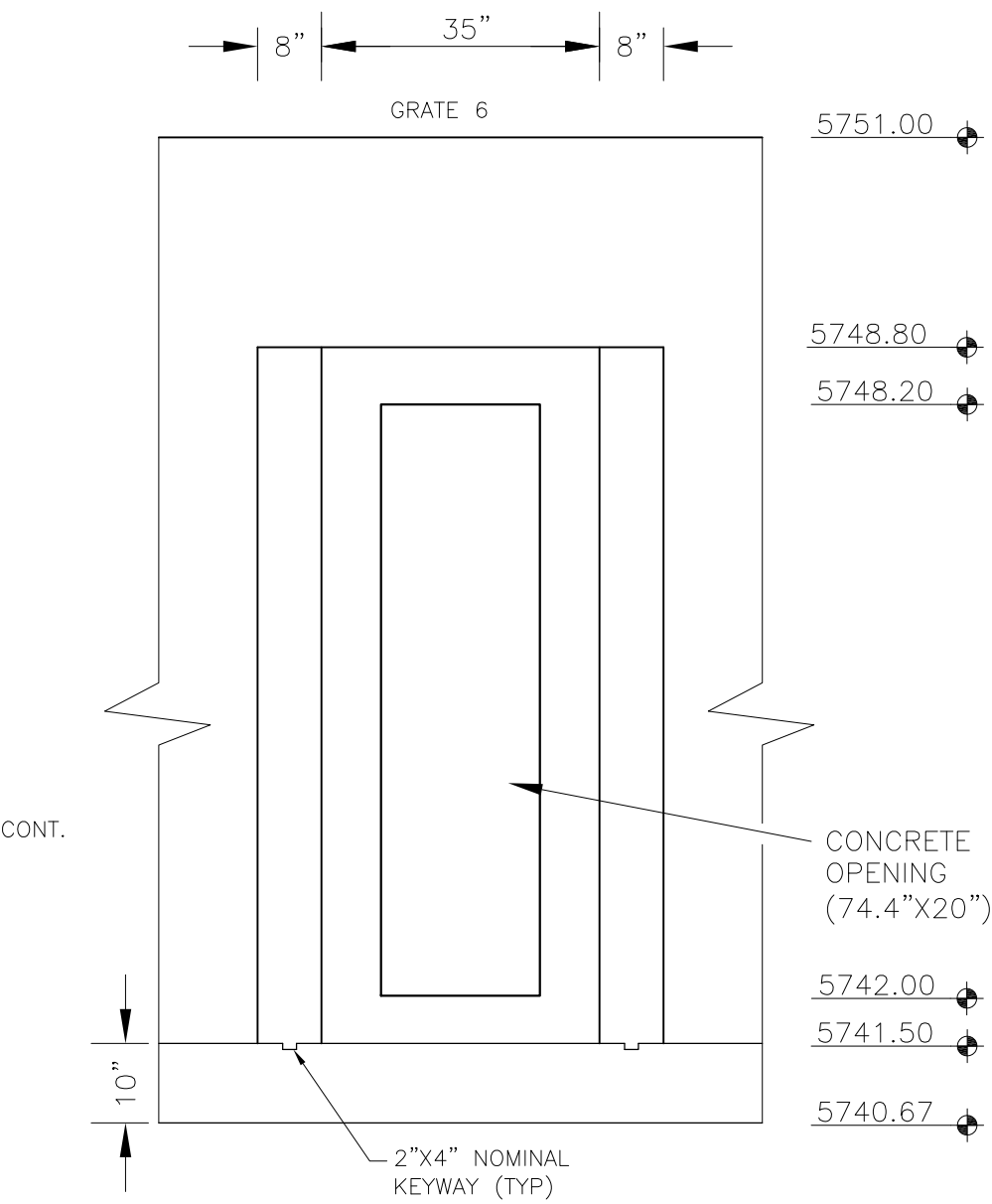
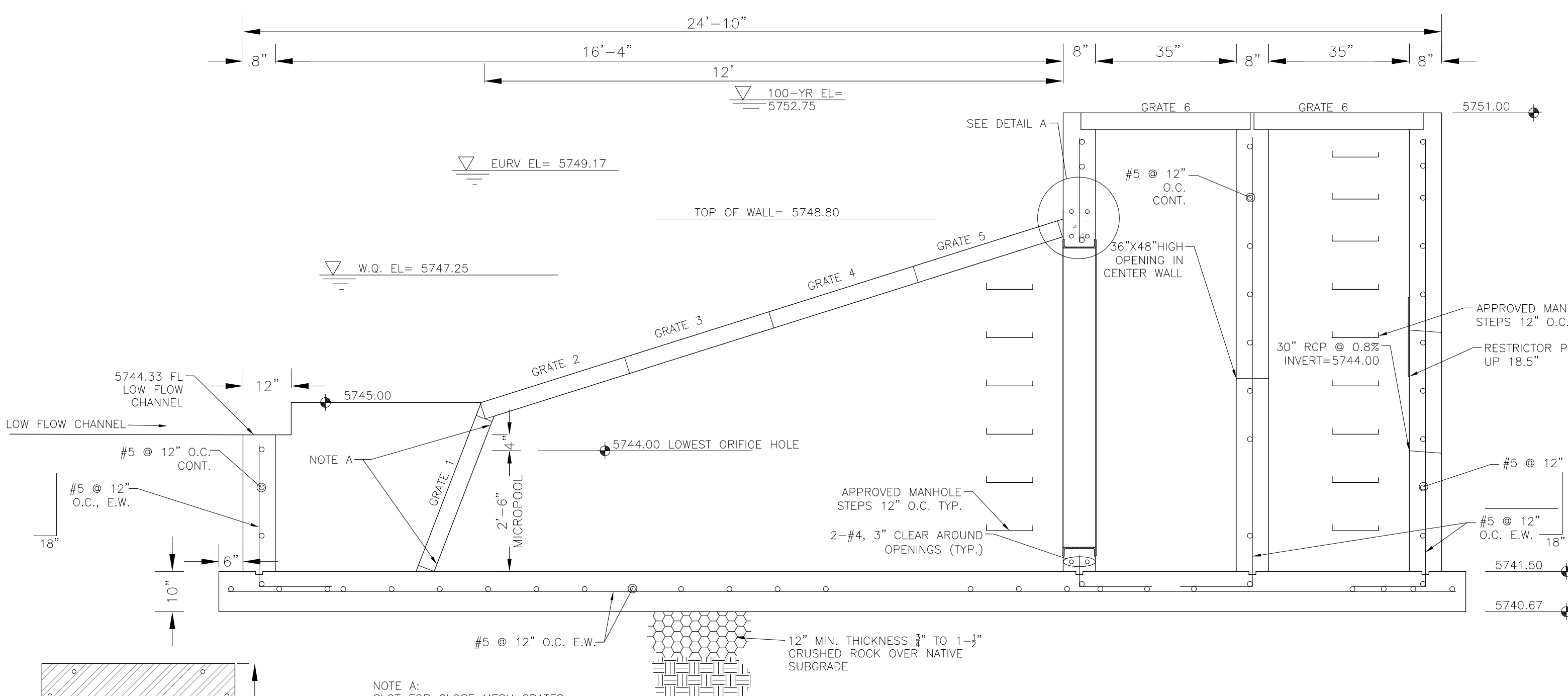
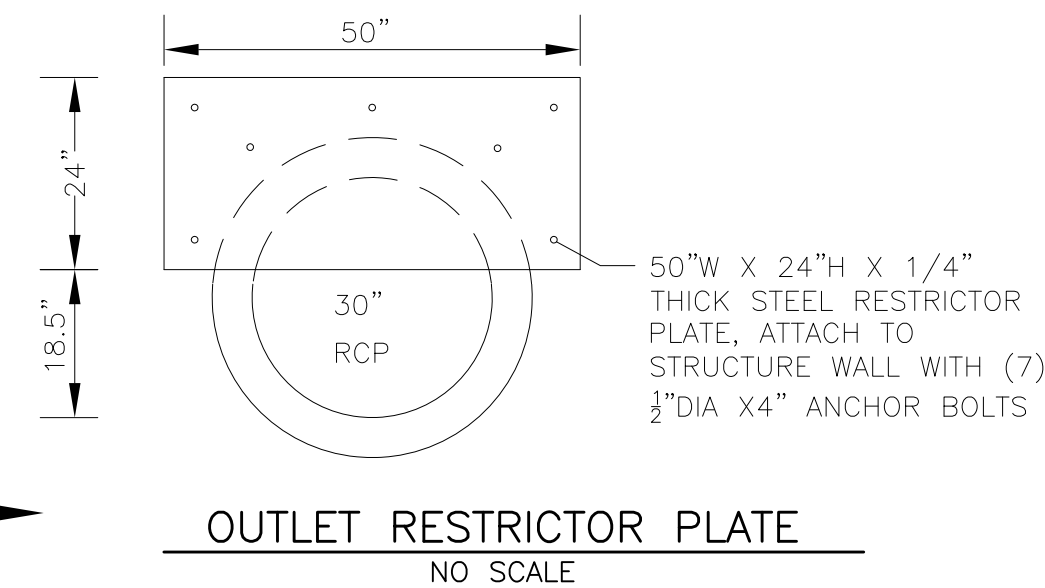
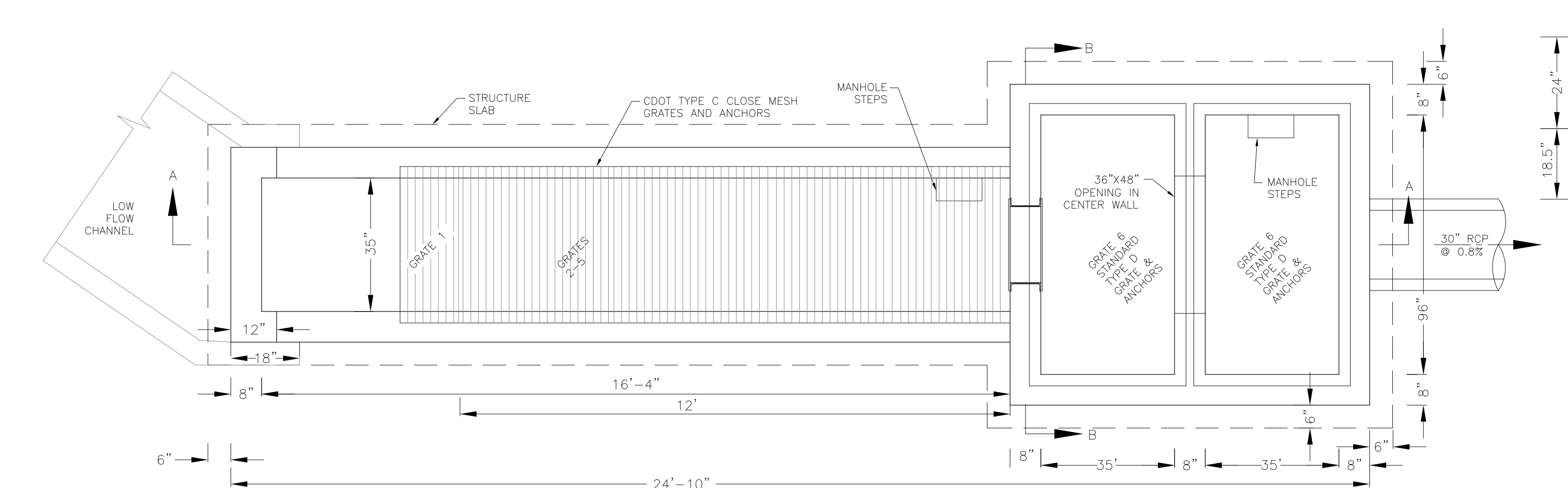
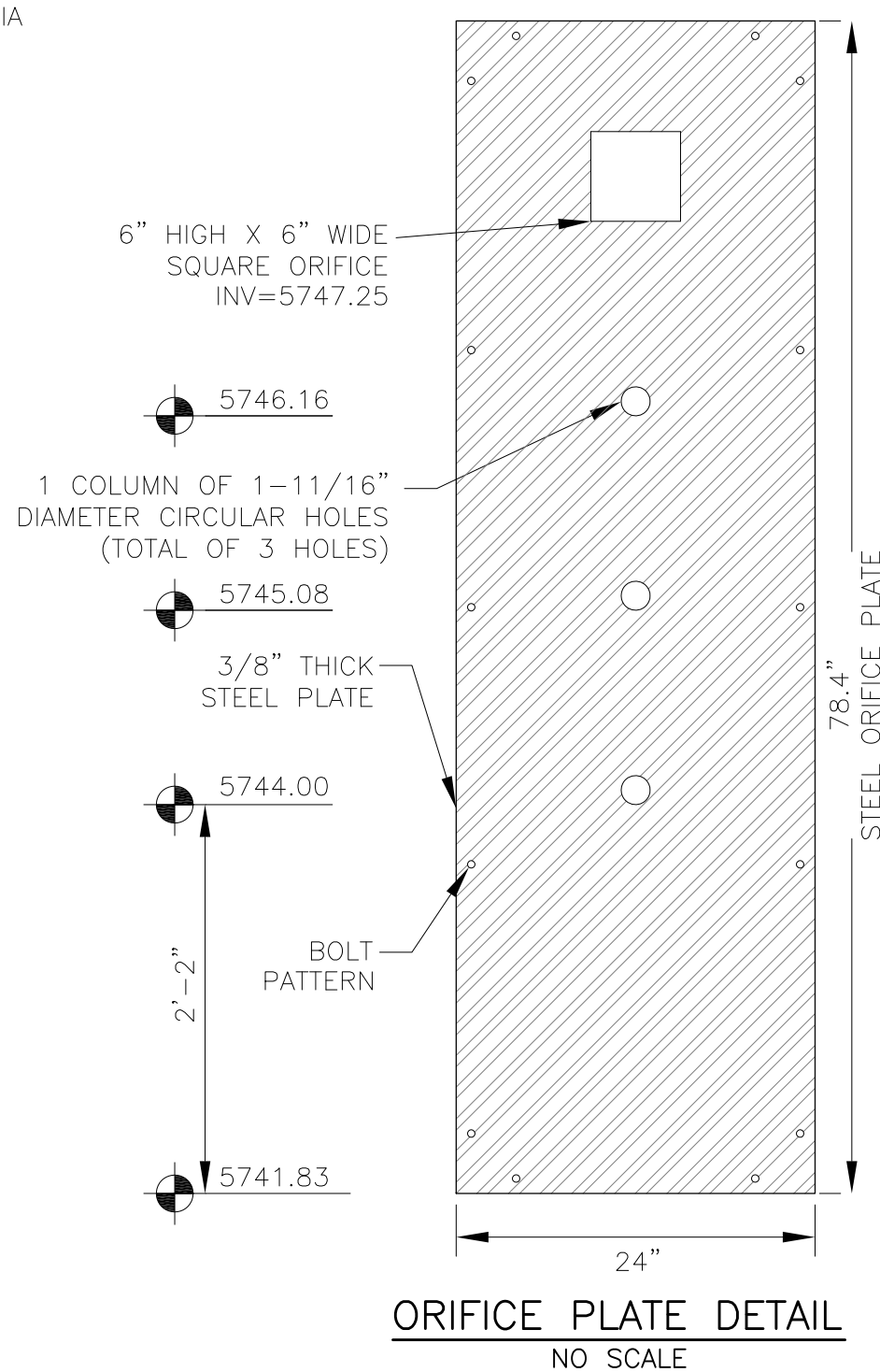
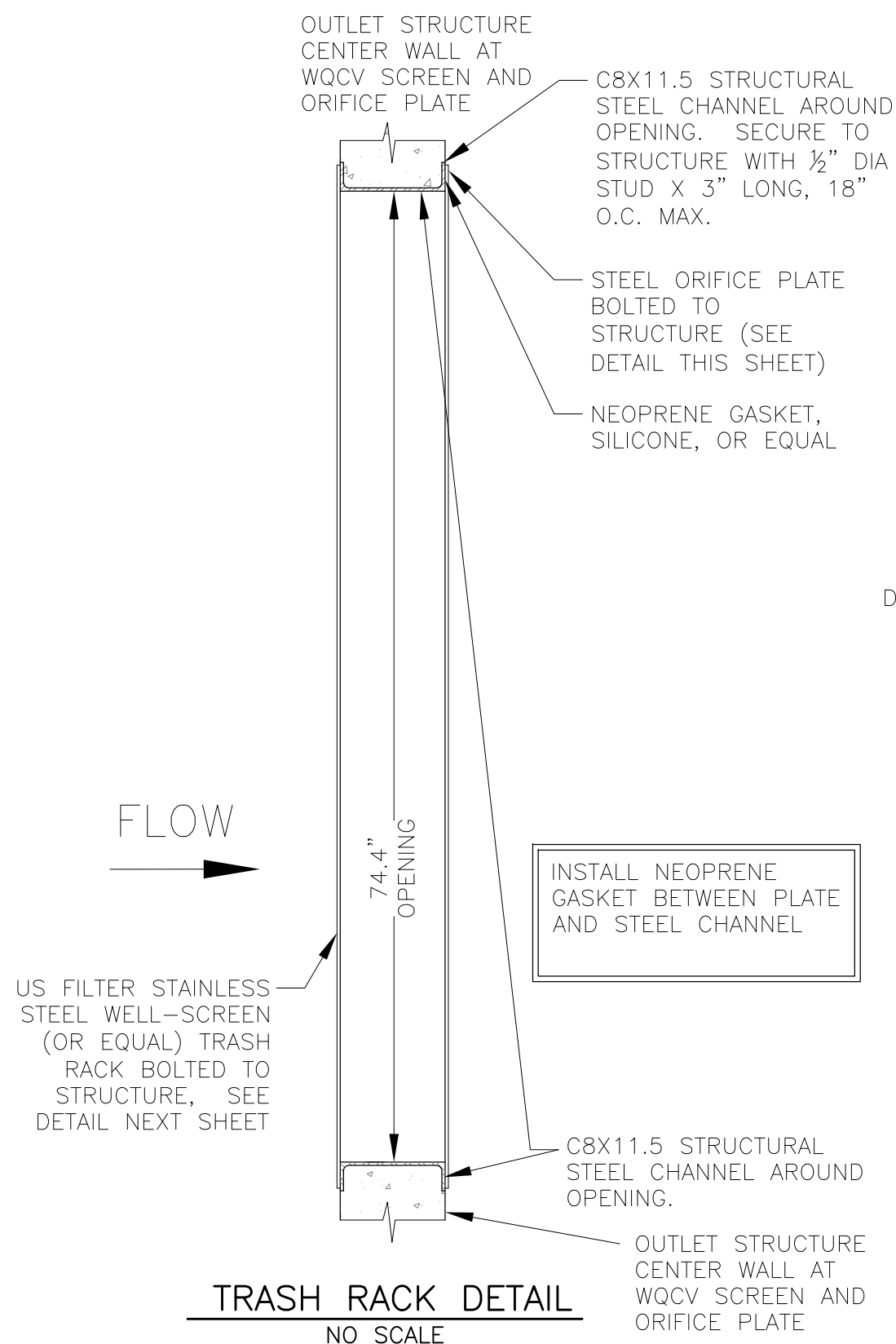
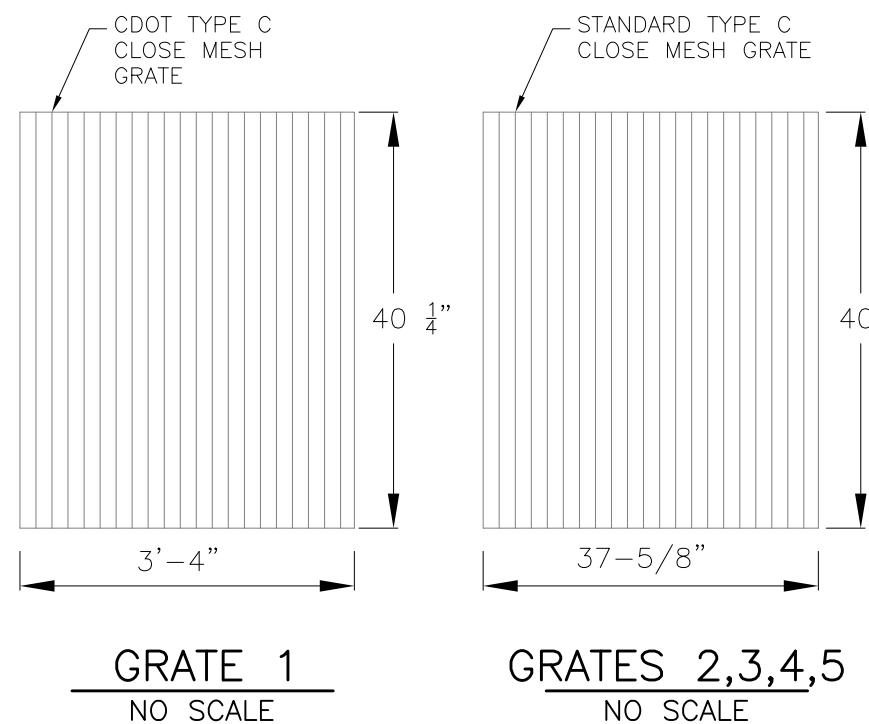
C9.12

TOTAL SHEETS: 58





NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION

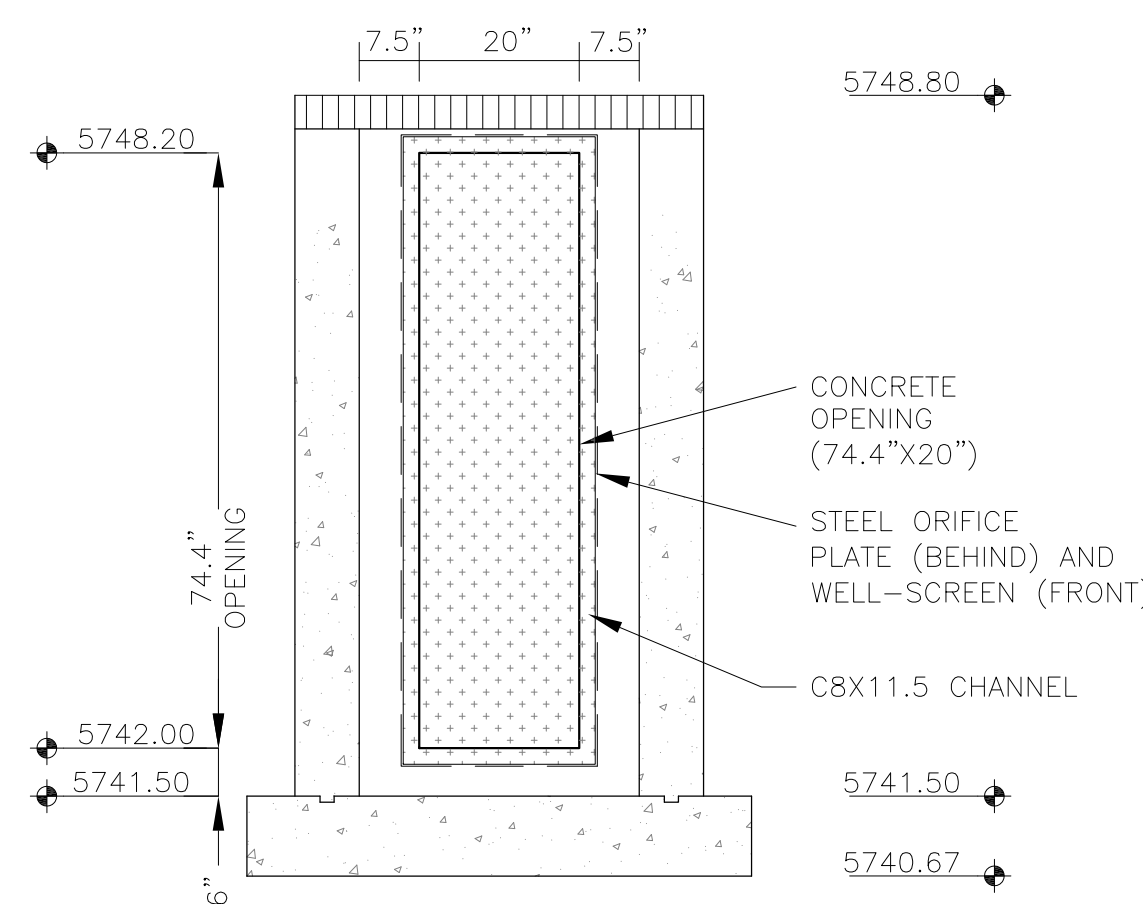


### OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
- GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
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- CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
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- REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
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- WQCV Well Screen
  - Type of Screen: Stainless steel #93 Vee Wire (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
  - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
  - Type and Size of Support Rod: TE 0.074"x0.50"
  - Spacing of Support Rod (O.C.): 1.0 Inch
  - Total Screen Thickness: 0.655"
  - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle



**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNING WOOD, CO 80903  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg.com

PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

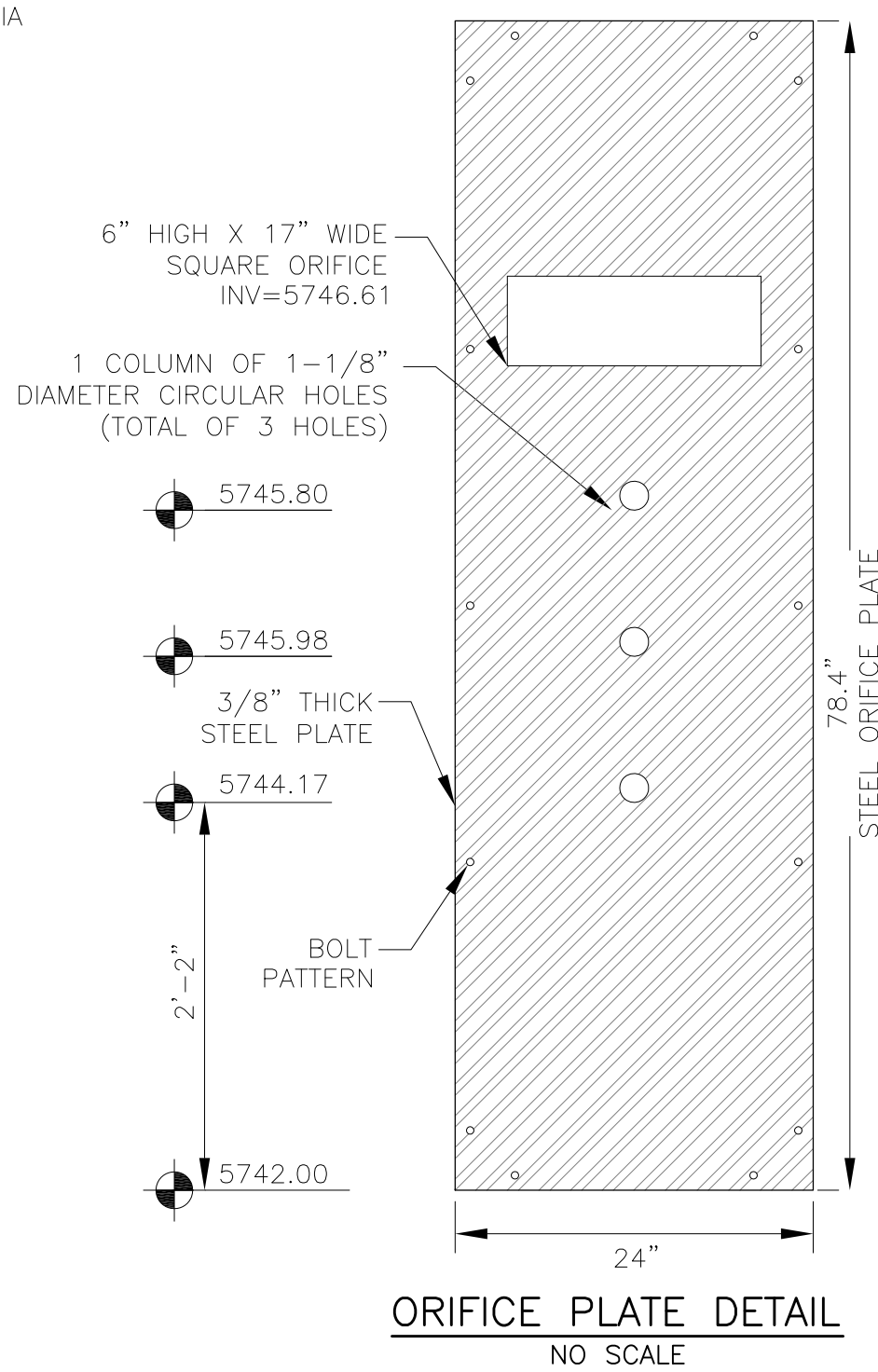
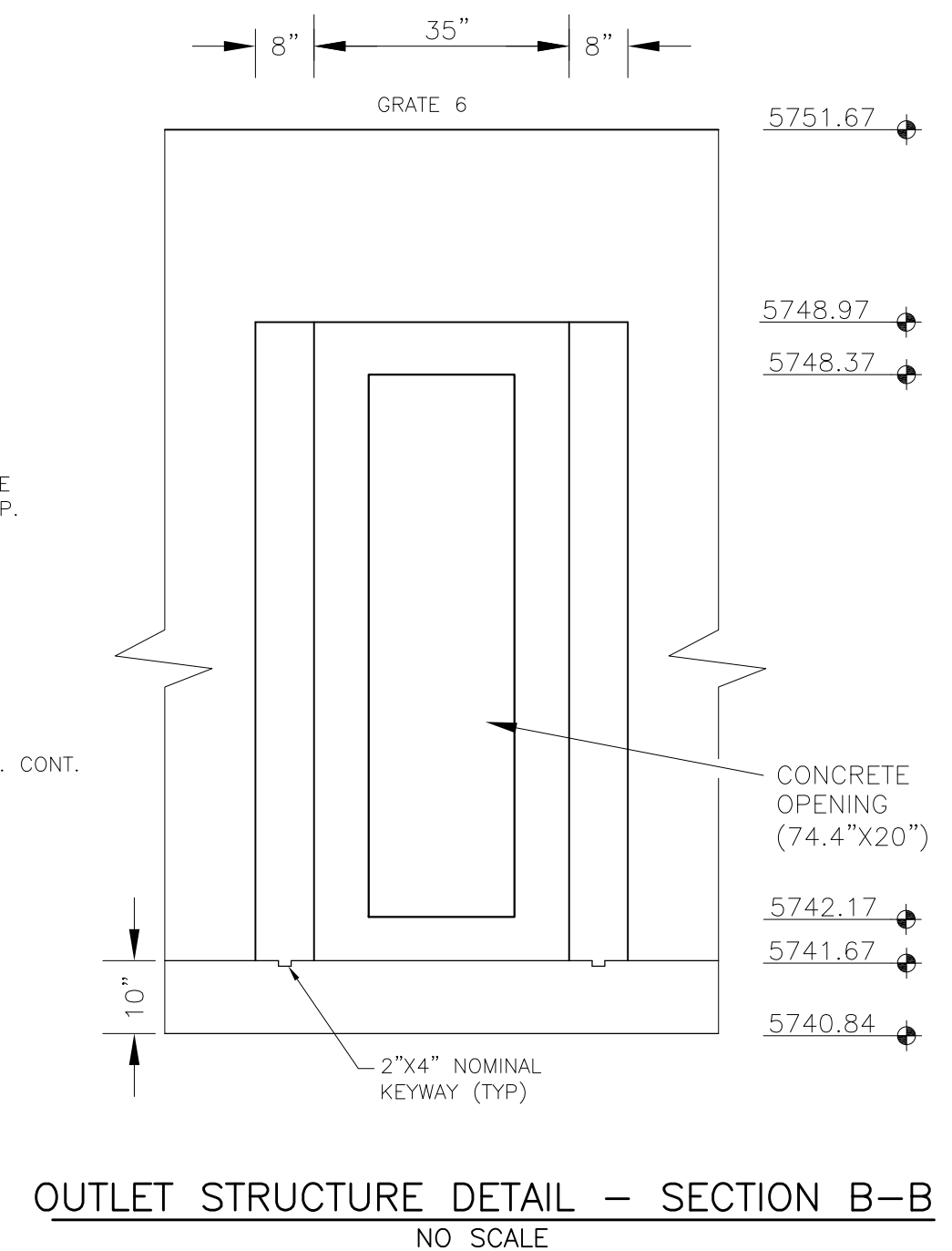
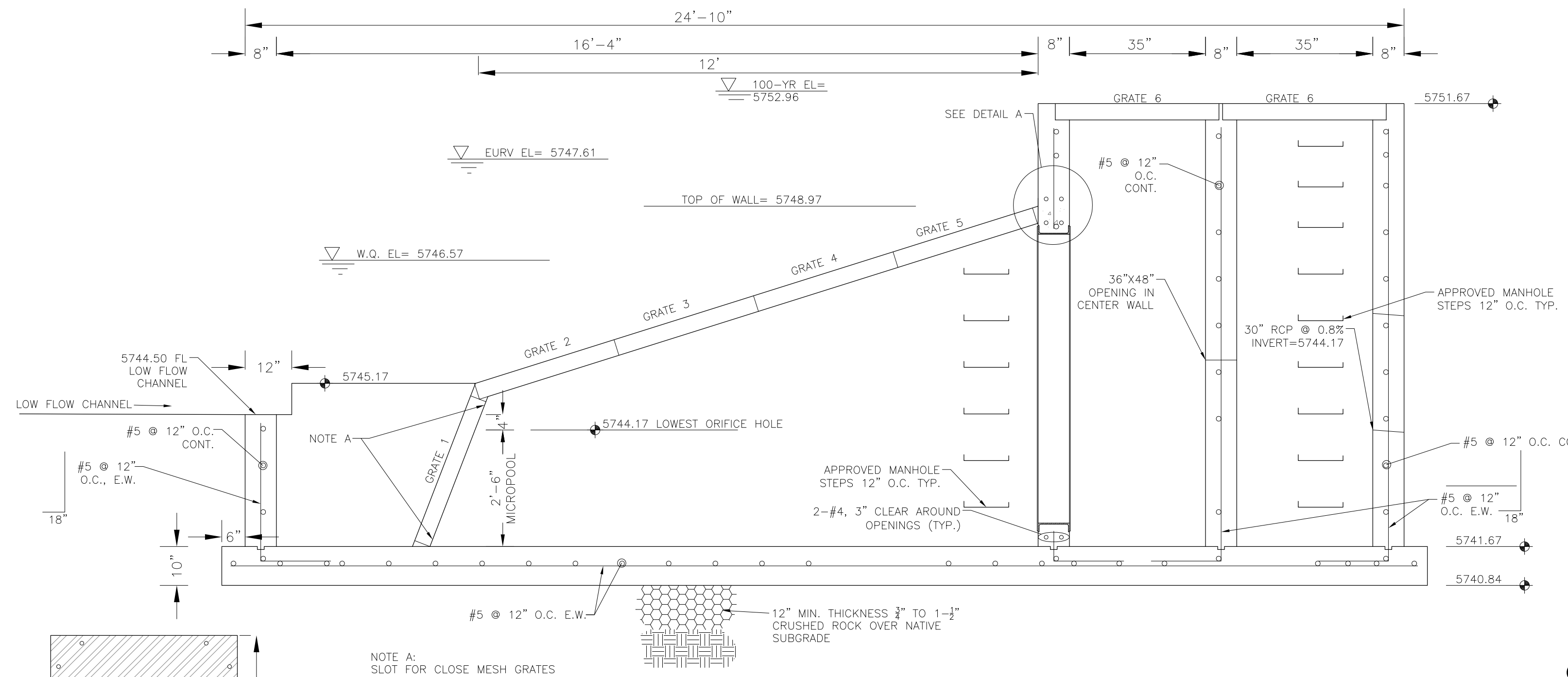
**POND C2.2**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**

DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C9.13

TOTAL SHEETS: 58

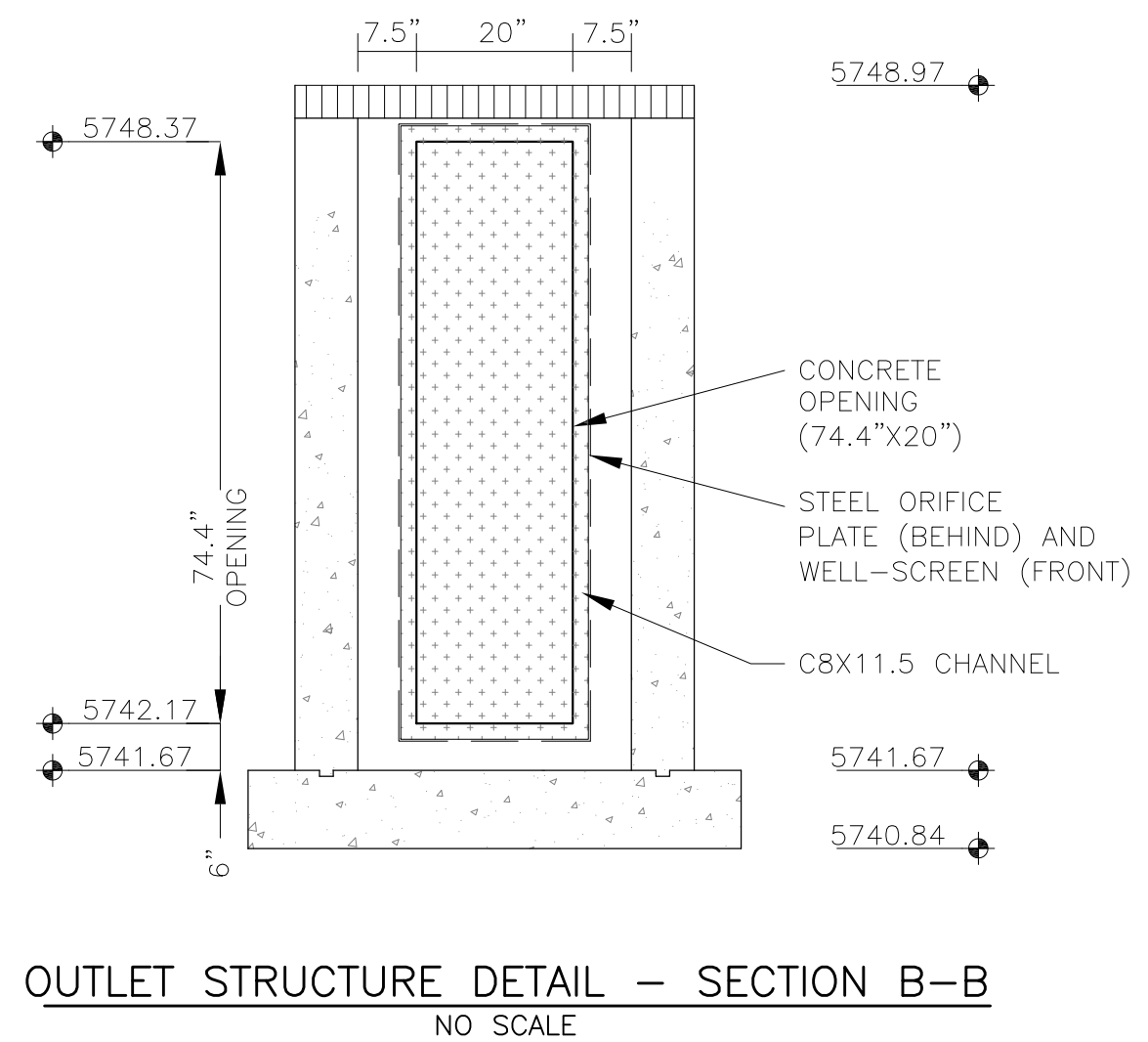


OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

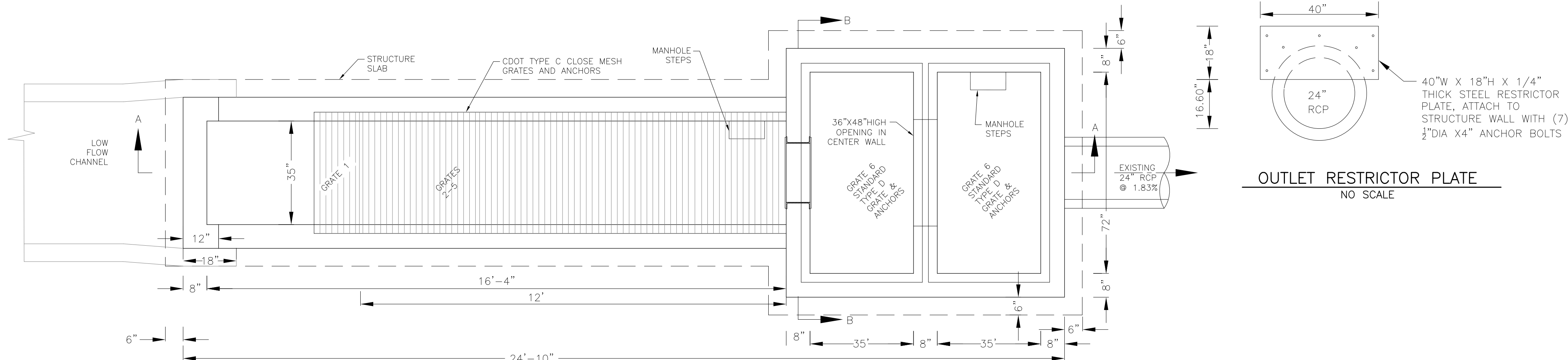
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
2. GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPlice LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
- | BAR SIZE           | #4    | #5    | #6    |
|--------------------|-------|-------|-------|
| MIN. SPlice LENGTH | 1'-3" | 1'-7" | 2'-0" |
3. CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
4. CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE
5. EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE  $\frac{1}{2}$ " THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
6. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A  $\frac{3}{8}$ " CHAMFER UNLESS OTHERWISE NOTED.
7. SUBGRADE TO BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
8. REFER TO POND DETAILS FOR PRESEDIMENTATION/FOREBAY DESIGN.
9. ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

## WQCV WELL-SCREEN NOTES:

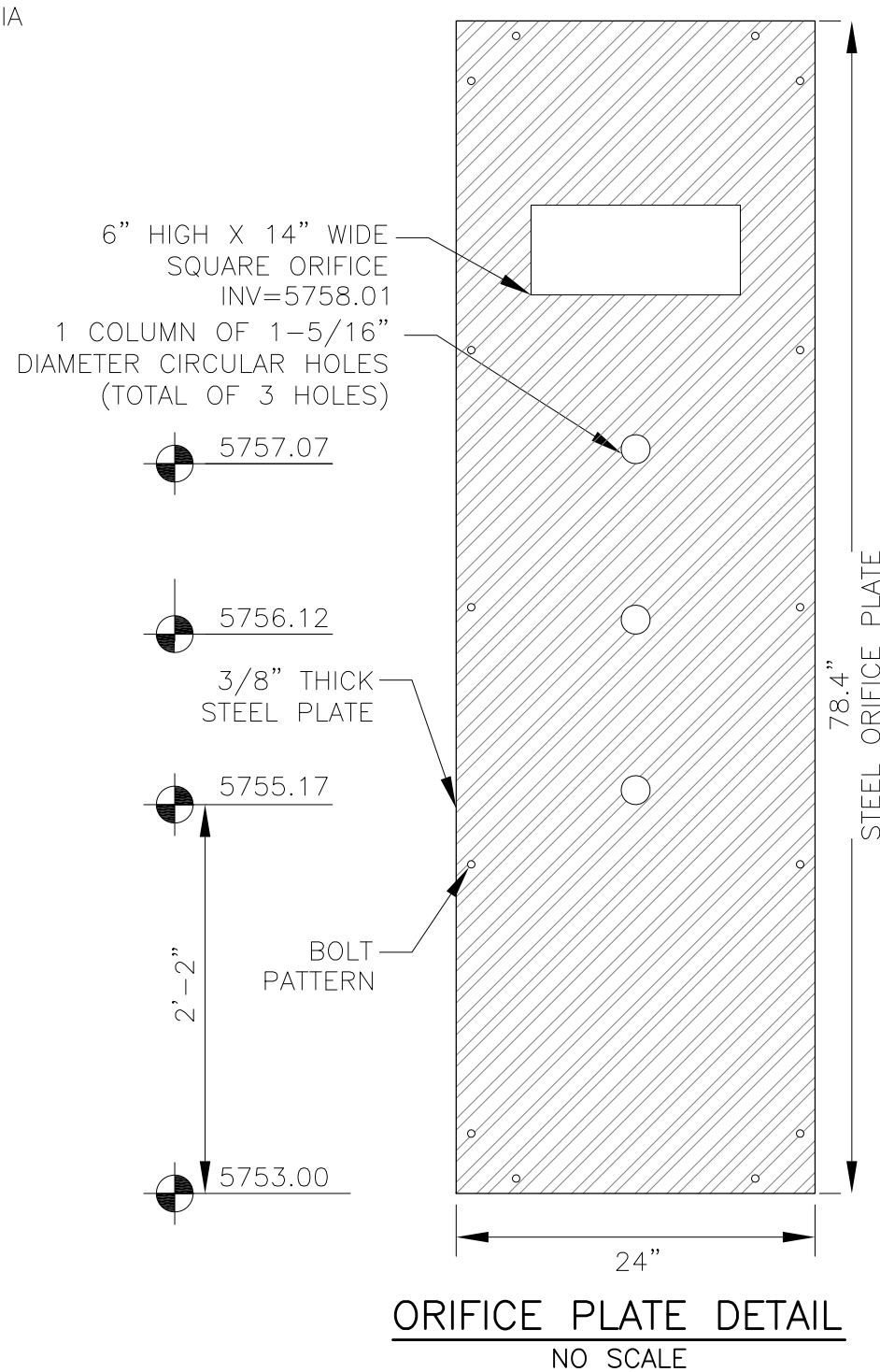
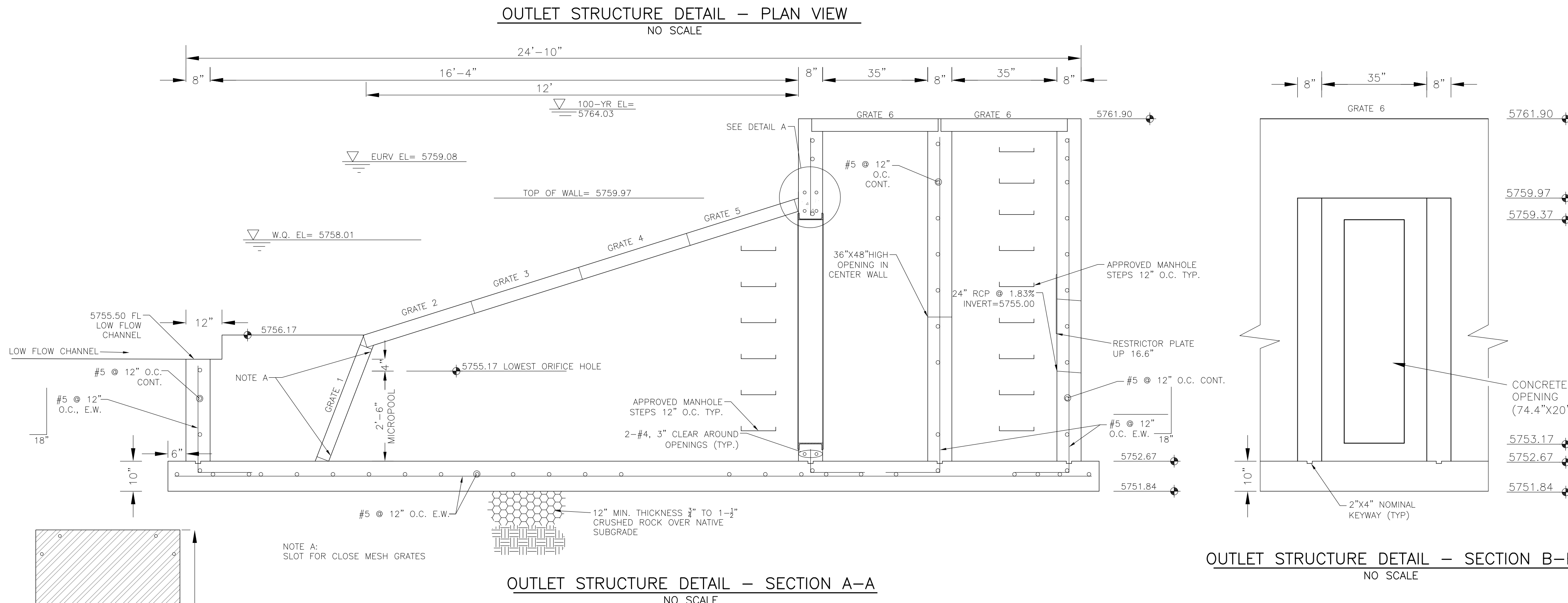
1. Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
2. WQCV Well Screen
  - Type of Screen: Stainless steel #93 Vee Wire (Johnson Vee Wire (tm) Stainless Steel Screen or equivalent with 60% open area)
  - Screen slot opening dimension: 0.139" (Screen #93 Vee Wire Slot Opening)
  - Type and Size of Support Rod: TE 0.074"x0.50"
  - Spacing of Support Rod (O.C.): 1.0 Inch
  - Total Screen Thickness: 0.655"
  - Carbon Steel Holding Frame Type: 3/4" x 1.0" angle







NOTE:  
AFTER CONCRETE STRUCTURE HAS BEEN POURED  
ALL GRATE DIMENSIONS SHALL BE FIELD VERIFIED  
PRIOR TO GRATE CONSTRUCTION



OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

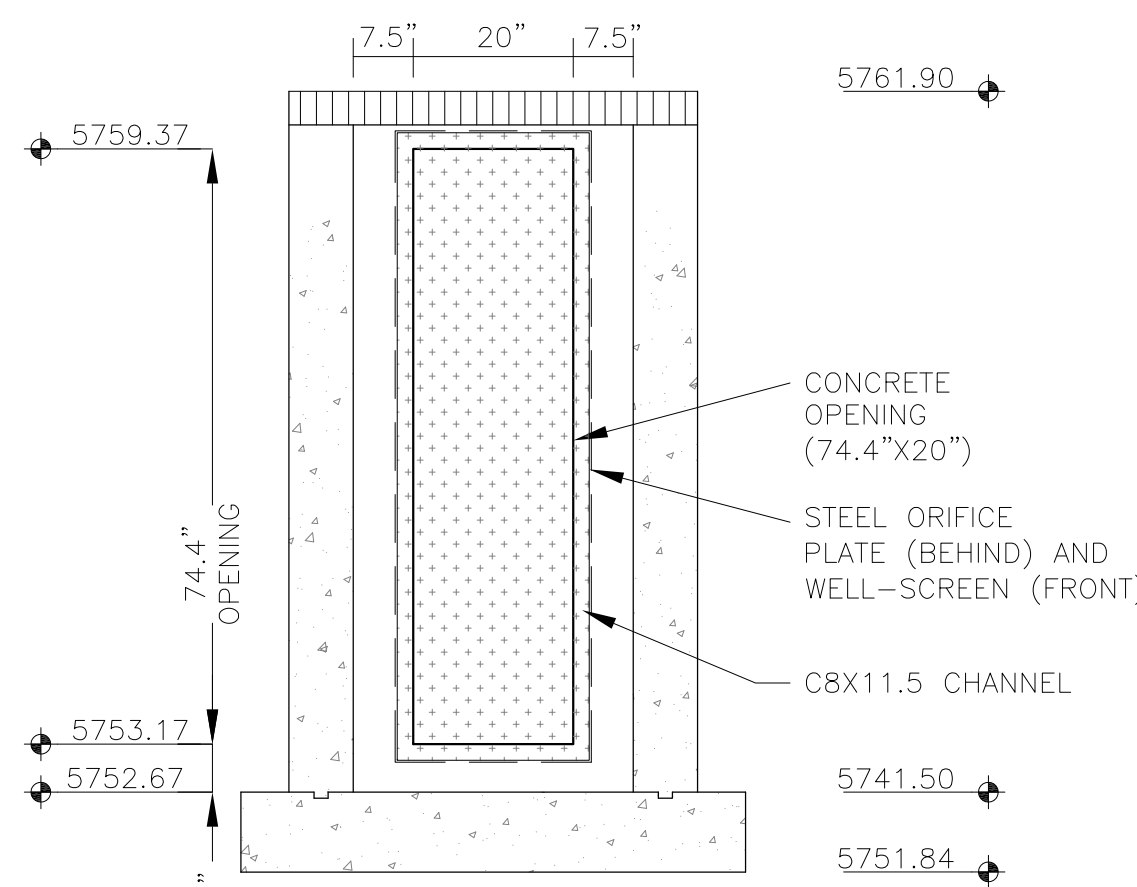
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS OF THE OUTLET STRUCTURE.
2. GRADE 60 REINFORCING STEEL REQUIRED. SEE TABLE FOR THE MINIMUM LAP SPlice LENGTH FOR REINFORCING BARS. ALL REINFORCING STEEL SHALL HAVE A TWO-INCH MINIMUM CLEARANCE FROM EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.

BAR SIZE	#4	#5	#6
MIN. SPlice LENGTH	1'-3"	1'-7"	2'-0"

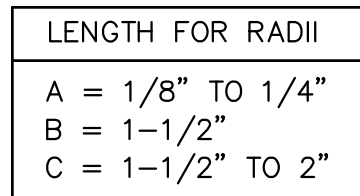
3. CONCRETE FOR THE OUTLET STRUCTURE AND FOREBAY SHALL BE CDOT CLASS D CONCRETE.
4. CONCRETE FOR DRAIN CHANNELS SHALL BE CDOT CLASS B CONCRETE.
5. EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213. EXPANSION JOINT MATERIAL SHALL BE  $\frac{3}{4}$ " THICK, SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE AND THE JOINT SHALL BE SEALED, REFER TO DETAILS.
6. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A  $\frac{3}{8}$ " CHAMFER UNLESS OTHERWISE NOTED.
7. SUBGRADE SHALL BE 12" THICK CLEAN FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM M698 UNDER STRUCTURE.
8. ALL FOUNDATION POINT DETAILS TO BE PRESENTED TO THE ENGINEER FOR REVIEW.
9. ENGINEER SHALL BE NOTIFIED PRIOR TO BEGINNING CONSTRUCTION OF OUTLET STRUCTURE TO SCHEDULE OBSERVATION VISITS FOR STRUCTURES.

## WQCV WELL-SCREEN NOTES:

1. Well-Screen shall be stainless steel and attached by stainless steel bolts along edge of the mounting frame.
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  - Type and Size of Support Rod: TE 0.074"x0.50"
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  - Total Screen Thickness: 0.655"
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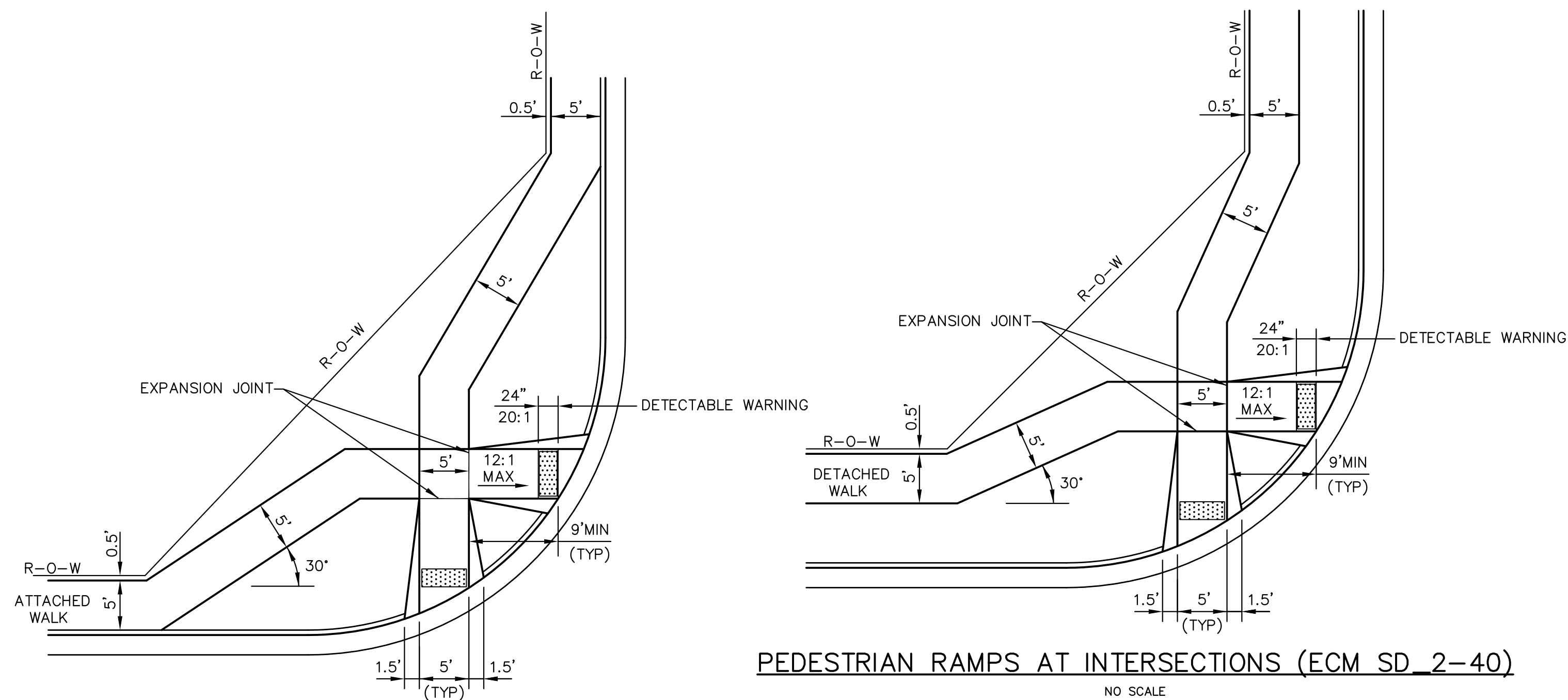




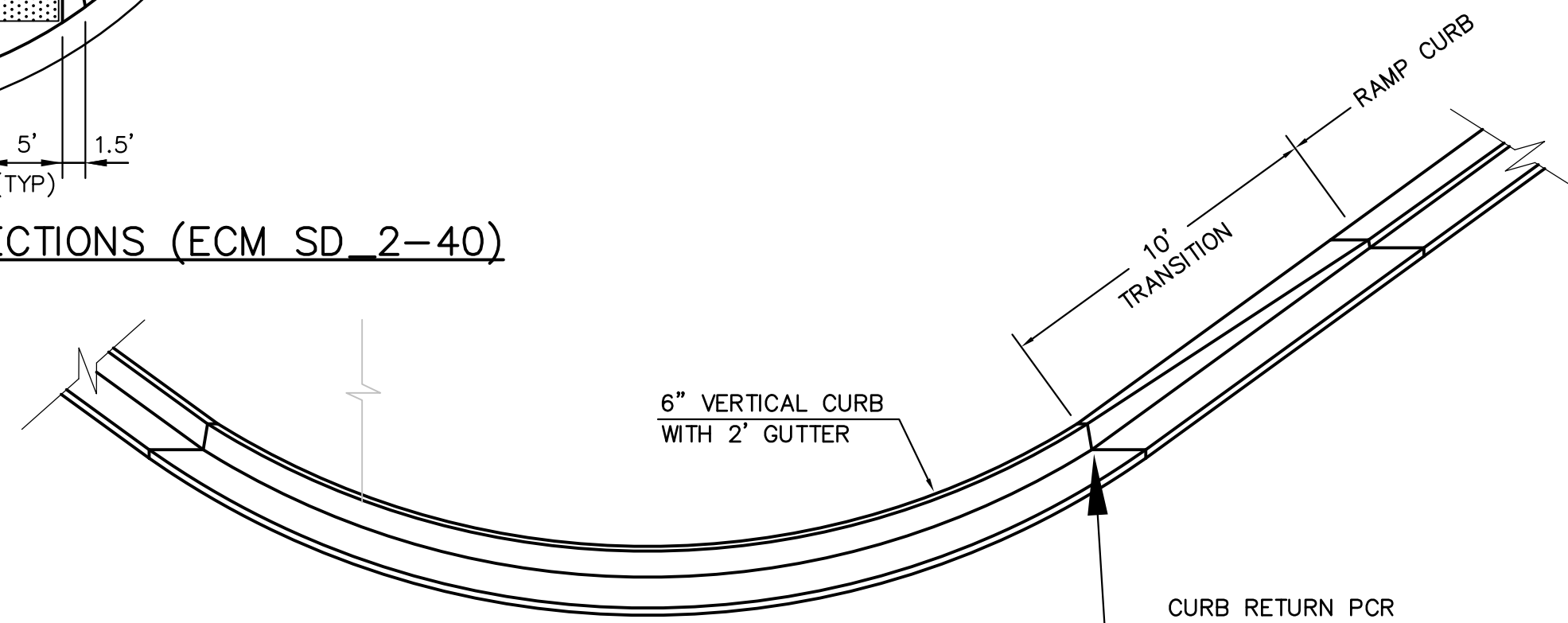
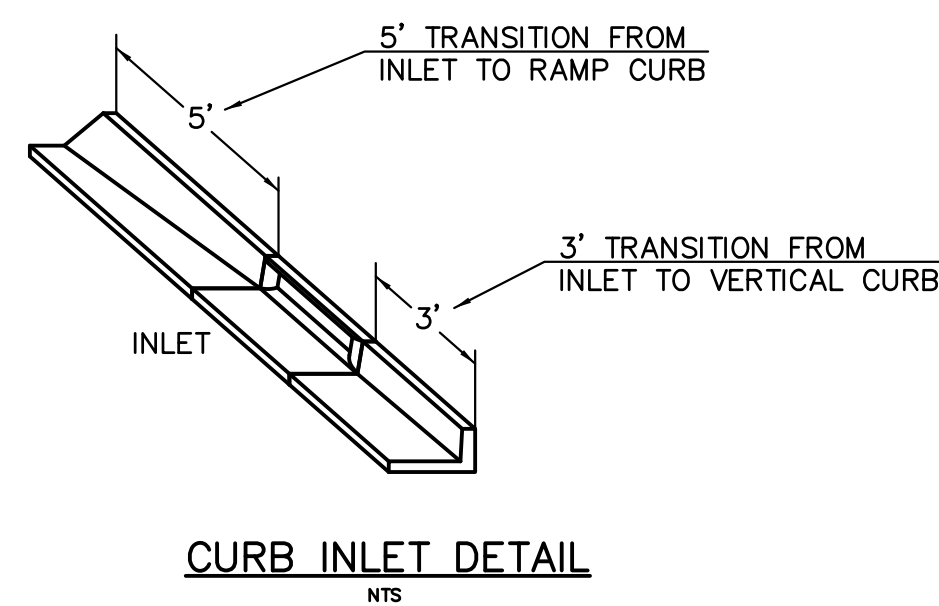
SCALE 1" = 1'-0"



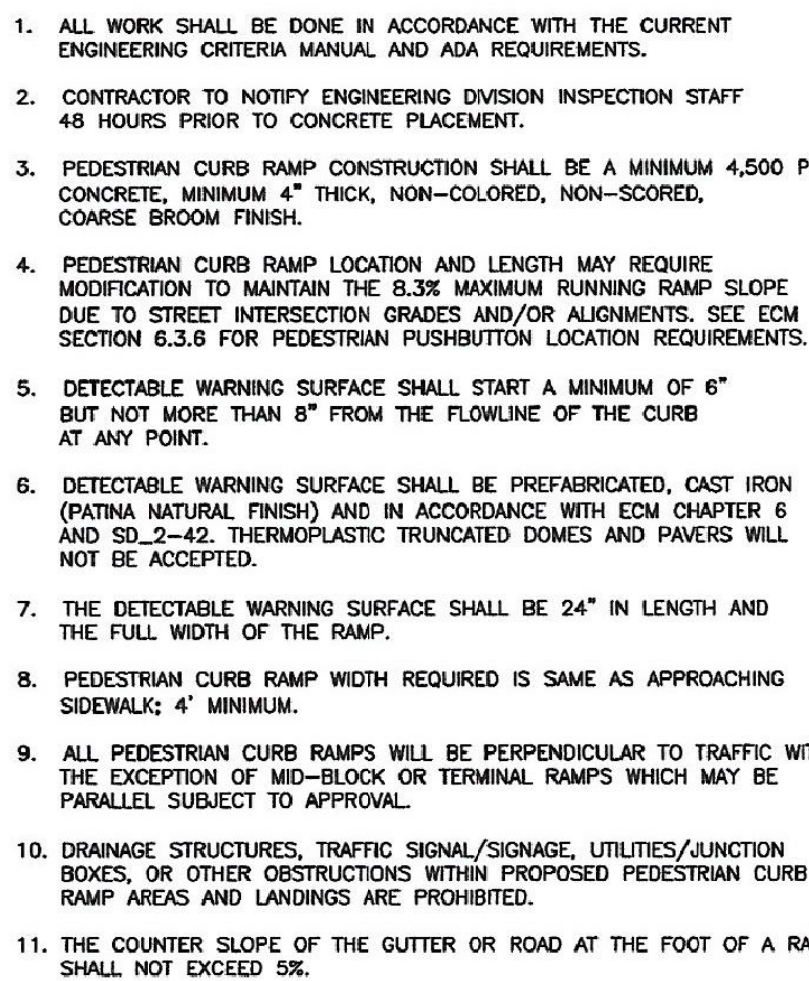
SCALE 1" = 1'



PEDESTRIAN RAMPS AT INTERSECTIONS (ECM SD\_2-40)



CURB TRANSITION DETAIL  
NTS

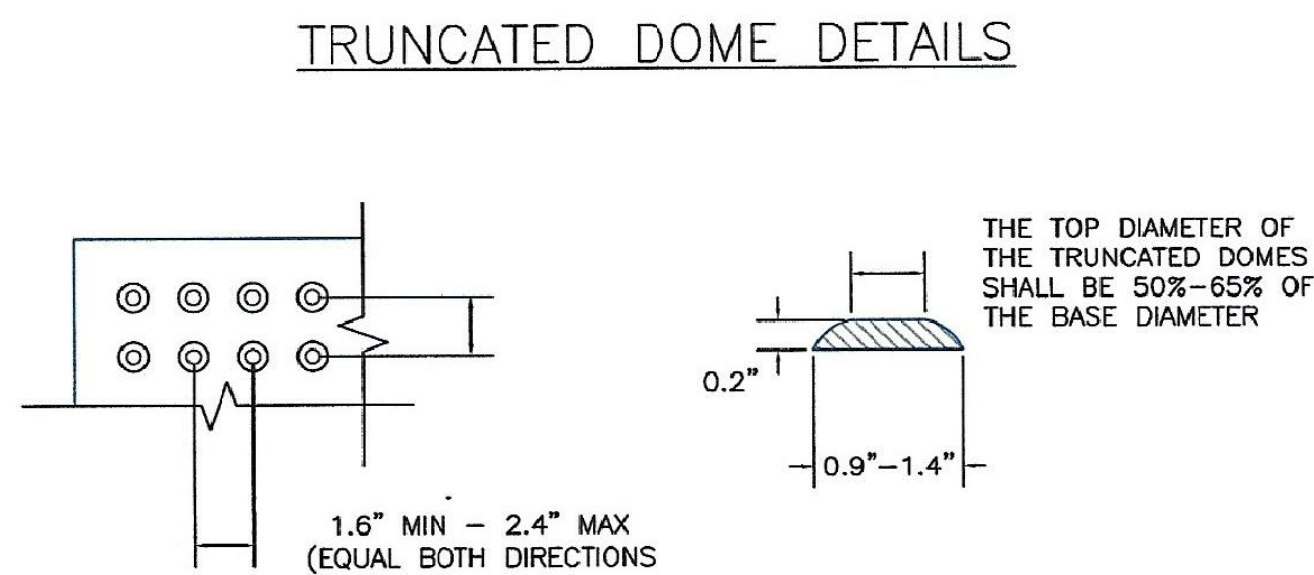


PEDESTRIAN RAMP NOTES

LAYOUT CURB SECTIONS SO THAT AT LEAST  
ONE TOOL JOINT IS WITHIN RAMP THROAT

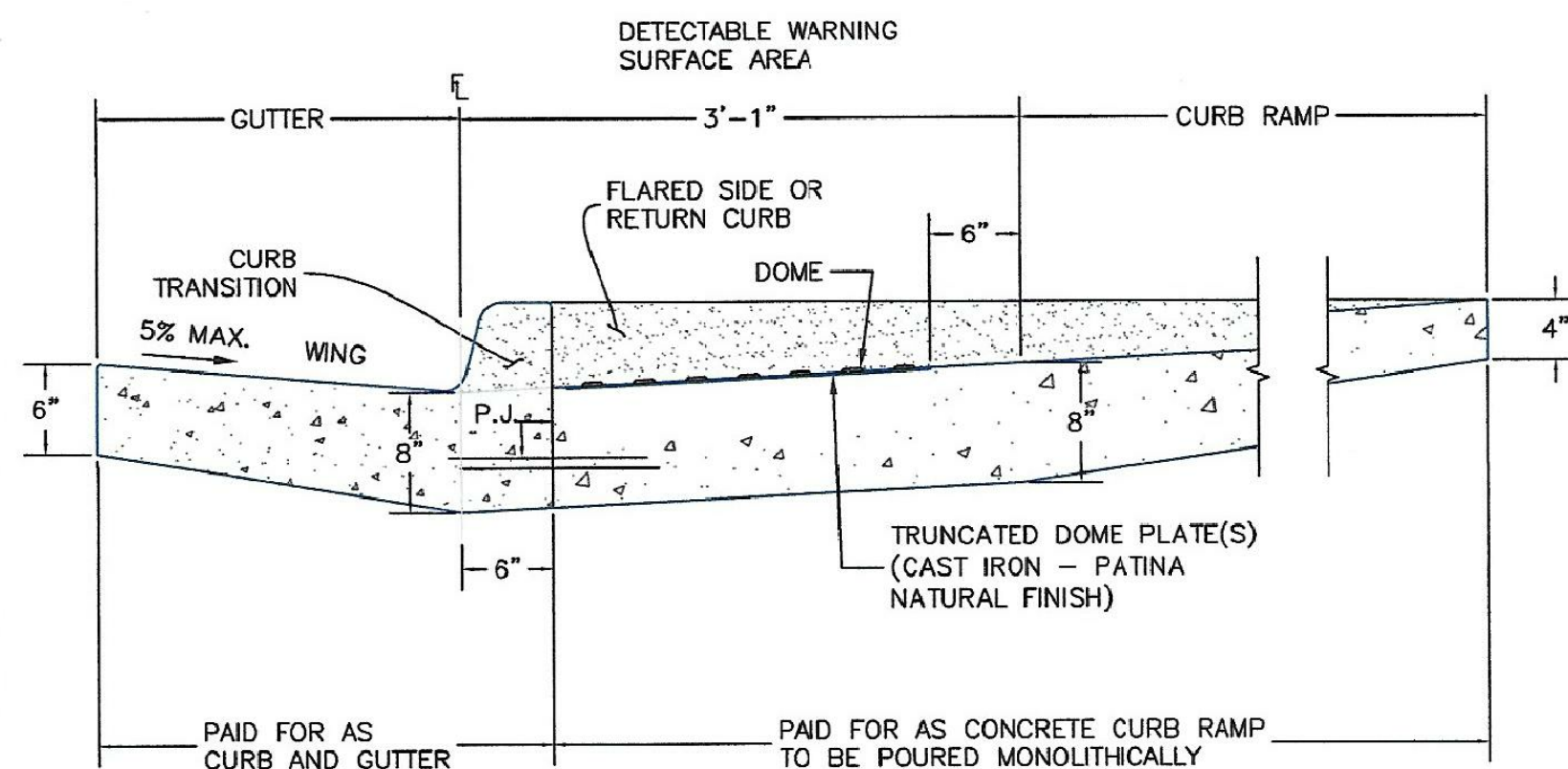
### GENERAL NOTES

1. WHERE THE 1"-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA (PEDESTRIAN CIRCULATION PATH), THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
2. PEDESTRIAN WALKWAY (PEDESTRIAN ACCESS ROUTE) AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
3. AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.



DOME SPACING

ELEVATION VIEW



SIDE CROSS SECTION VIEW OF  
DETECTABLE WARNING SURFACE, CURB AND GUTTER

P.J.= PERMISSABLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BARS  
CONFORMING TO AASHTO M 284 AT 18 IN. SPACING

6/23/20

DATE APPROVED: \_\_\_\_\_

Jennifer E. Irvine

DEPARTMENT OF PUBLIC WORKS

## Detectable Warning Surface Details

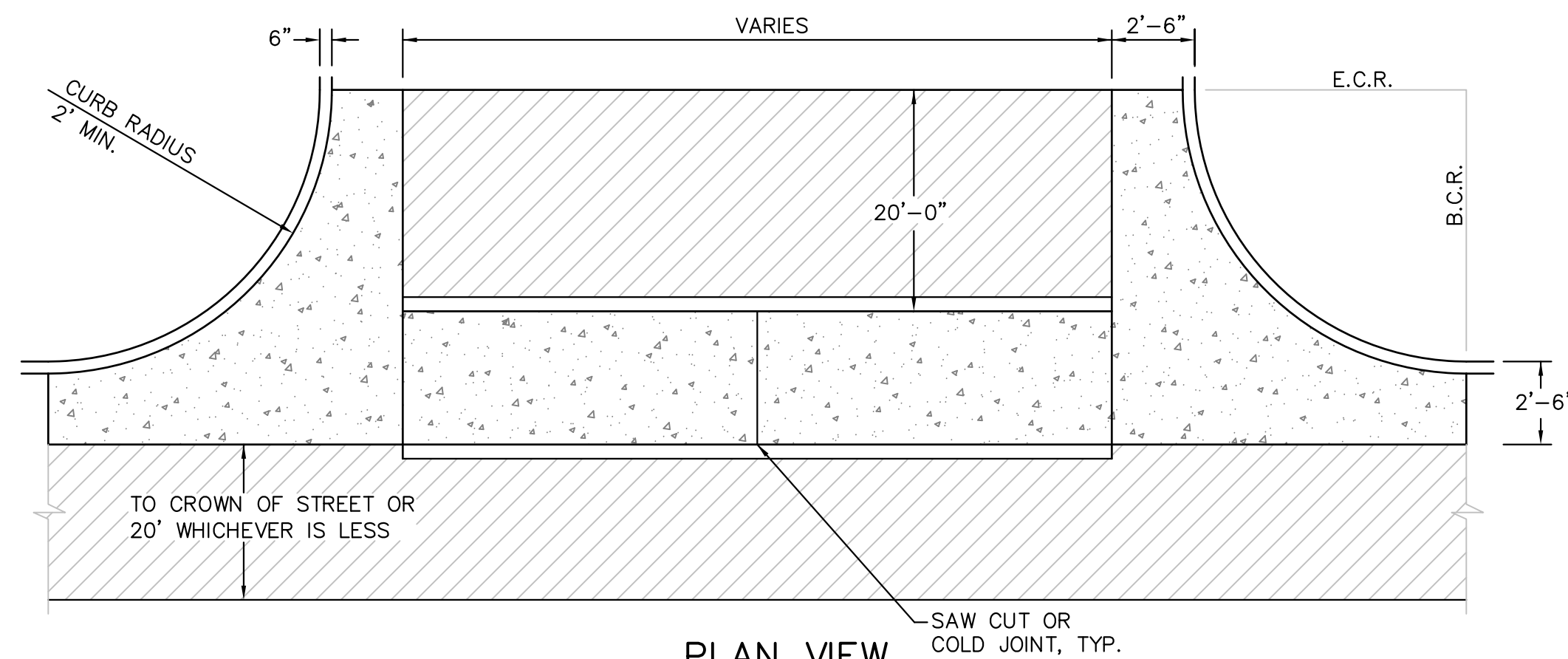
### Standard Drawing

REVISION DATE:

DATE: 6/23/20

FILE NAME:

SD\_2-42




### PLAN VIEW

SECTION A - A

TYPICAL CROSSSPAN LAYOUT (ECM SD\_2-26)

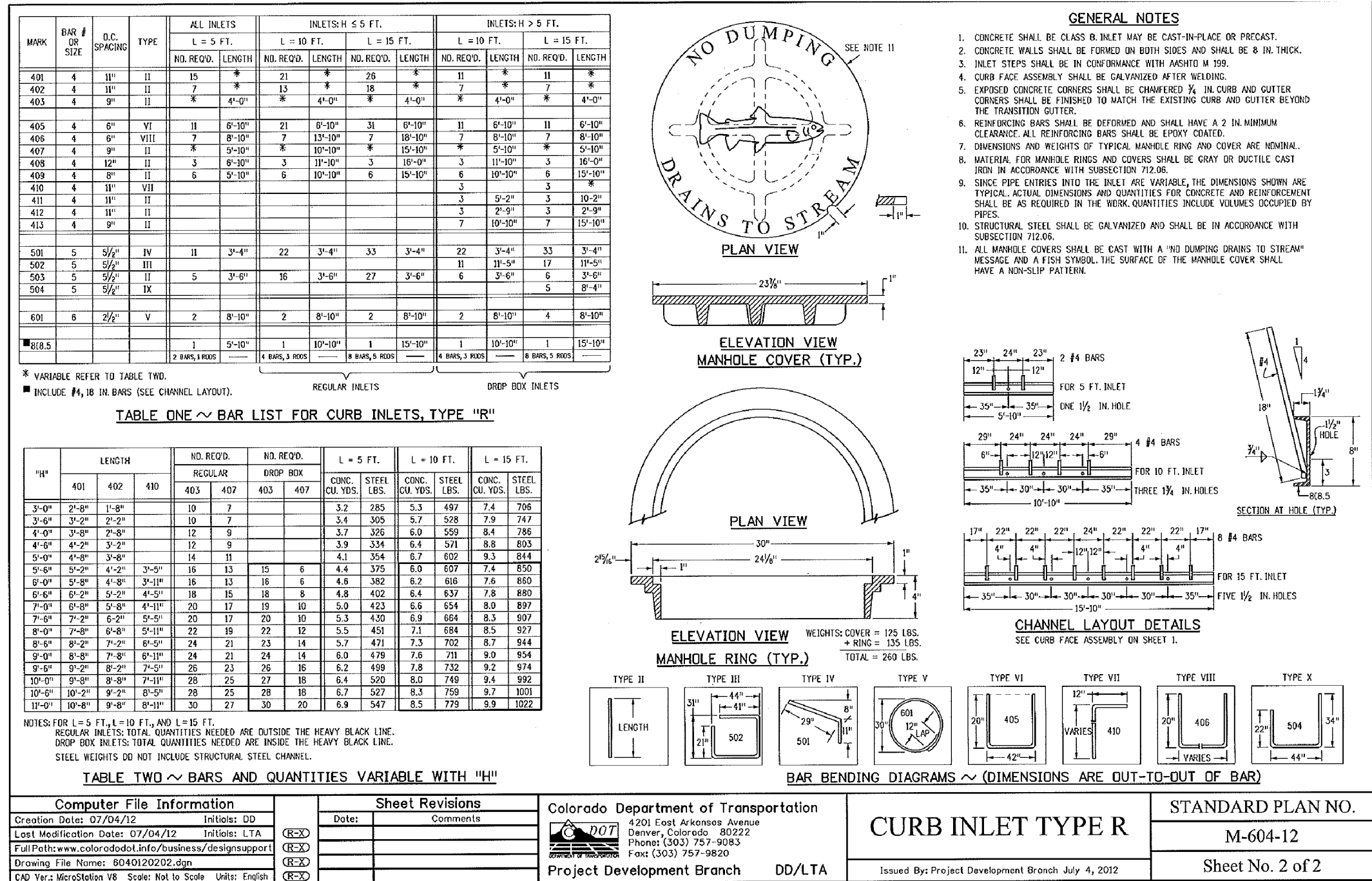
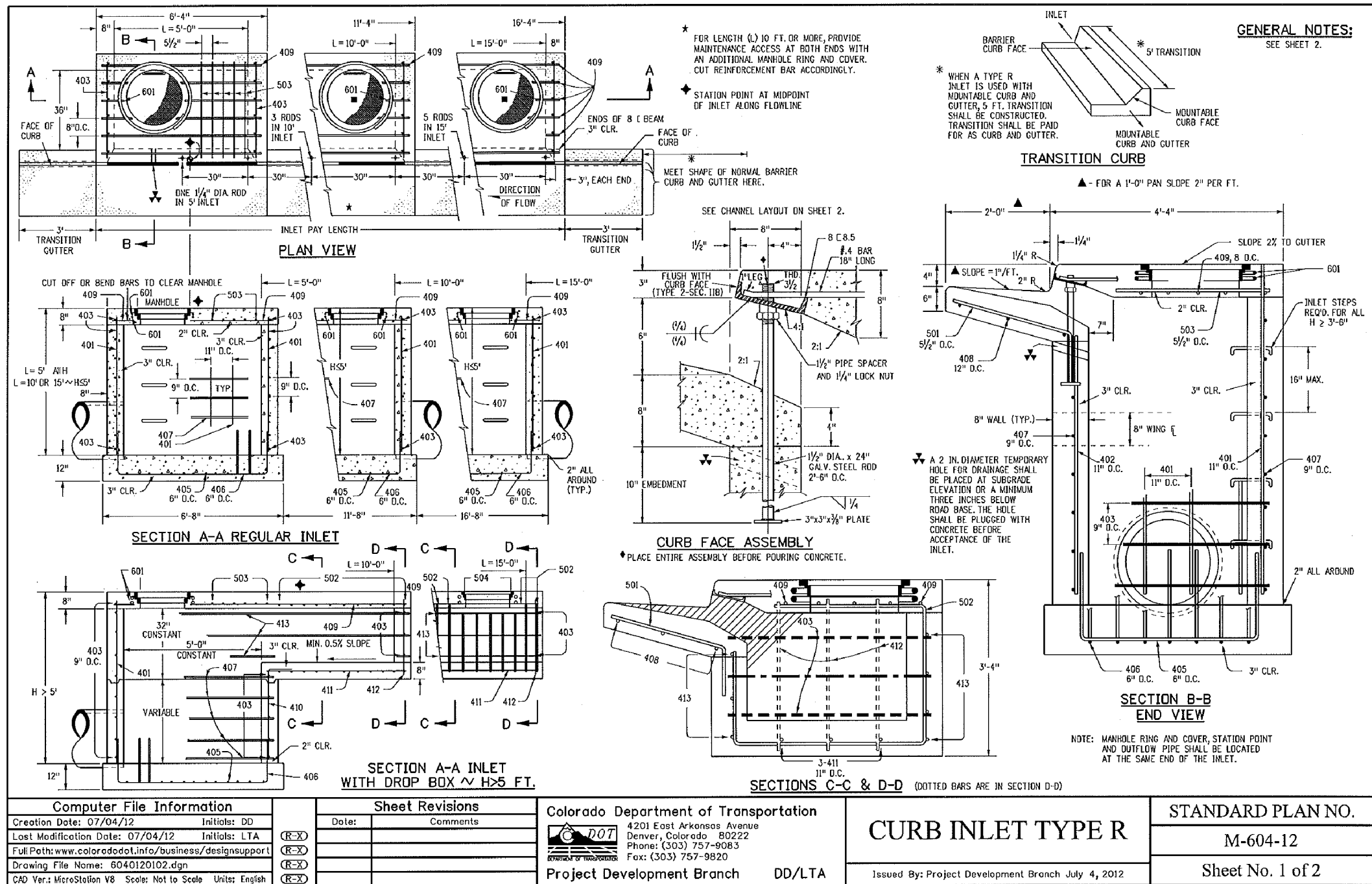
NO SCALE

## NOTES

1. W = WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, 10' FOR ARTERIAL ROADS.
2. T = SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8" PCC, OR 9" FOR COLLECTORS MINIMUM WITH 6x6 - 4.4 WWF OR #4 @ 18"E.W.
3.  = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

ROADWAY DETAIL SHEET		DATE:		AUGUST 2, 2020	
		PROJECT NO.		100.061	
		SHEET NUMBER		C10.1	
		TOTAL SHEETS:		58	
		DRAWN: RLS		THE HILLS COLLECTOR STREET CONSTRUCTION FONTAINE BLVD ~ GRAYLING DR LORSON BLVD-WALLEYE DR-LAMPREY DR COLORADO SPRINGS, COLORADO	
		DESIGNED: RLS			
		CHECKED: RLS			
		PROJECT: RLS			
		NO.		DESCRIPTION	
		PREPARED FOR:		LORSON, LLC	
				212 N. WAHSAATCH AVE, SUITE 301	
				COLORADO SPRINGS, COLORADO 80903	
				(719) 635-3200	
				CONTACT: JEFF MARK	
		<b>CORE</b>		<b>ENGINEERING GROUP</b>	
		15004 1ST AVENUE S.		15004 1ST AVENUE S.	
		BURNSVILLE, MN 55306		BURNSVILLE, MN 55306	
		CONTACT: RICHARD L. SCHINDLER, P.E.		CONTACT: RICHARD L. SCHINDLER, P.E.	
		EMAIL: Rich@cegi.com		EMAIL: Rich@cegi.com	





**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 SUITE 300  
 COLORADO SPRINGS, CO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

**THE HILLS COLLECTOR STREET CONSTRUCTION**  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

**PREPARED FOR:**  
 LORSON, LLC  
 212 N. WAHSATCH AVE., SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

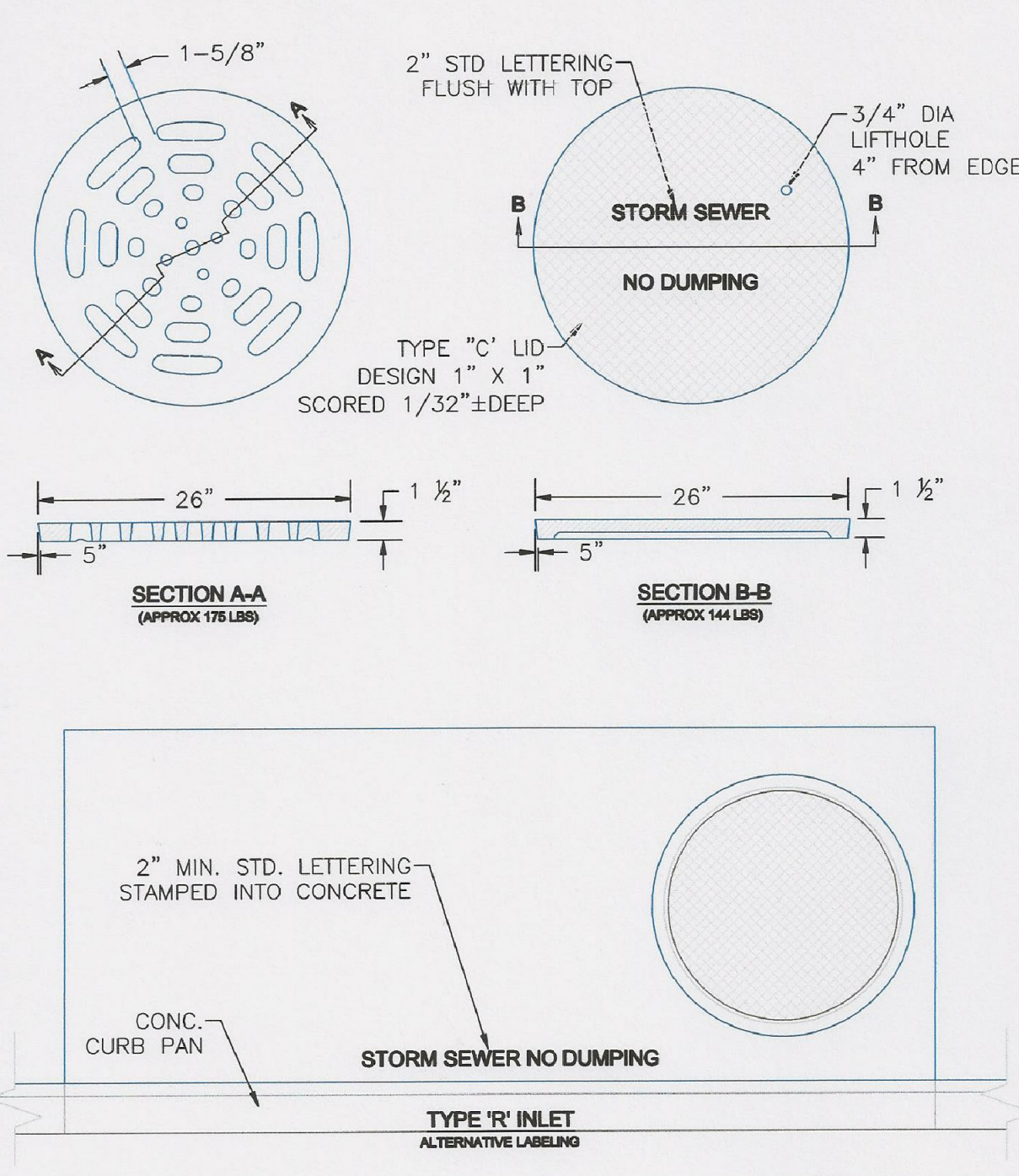
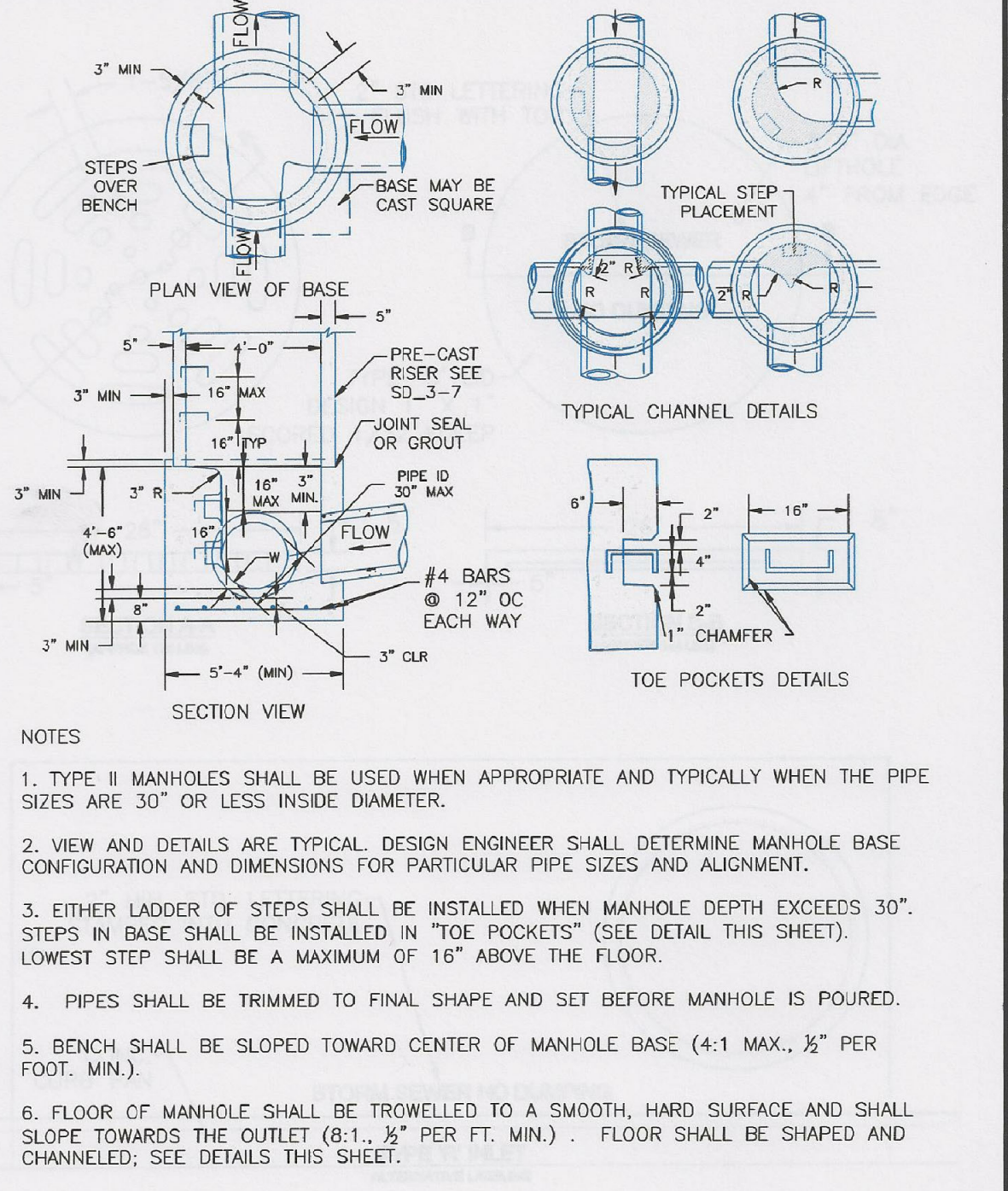
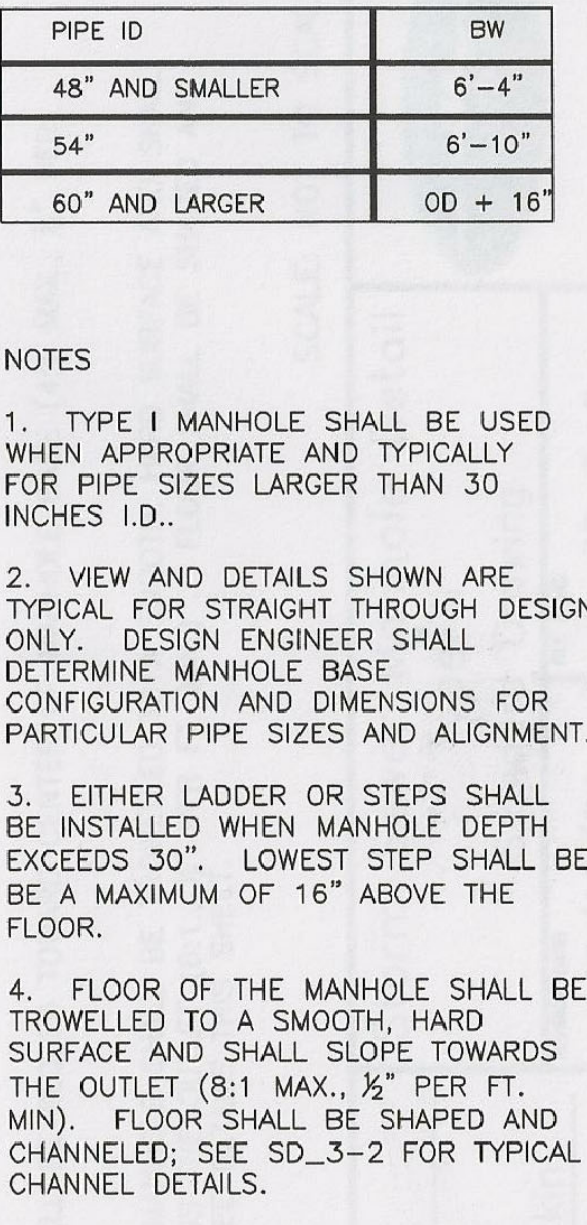
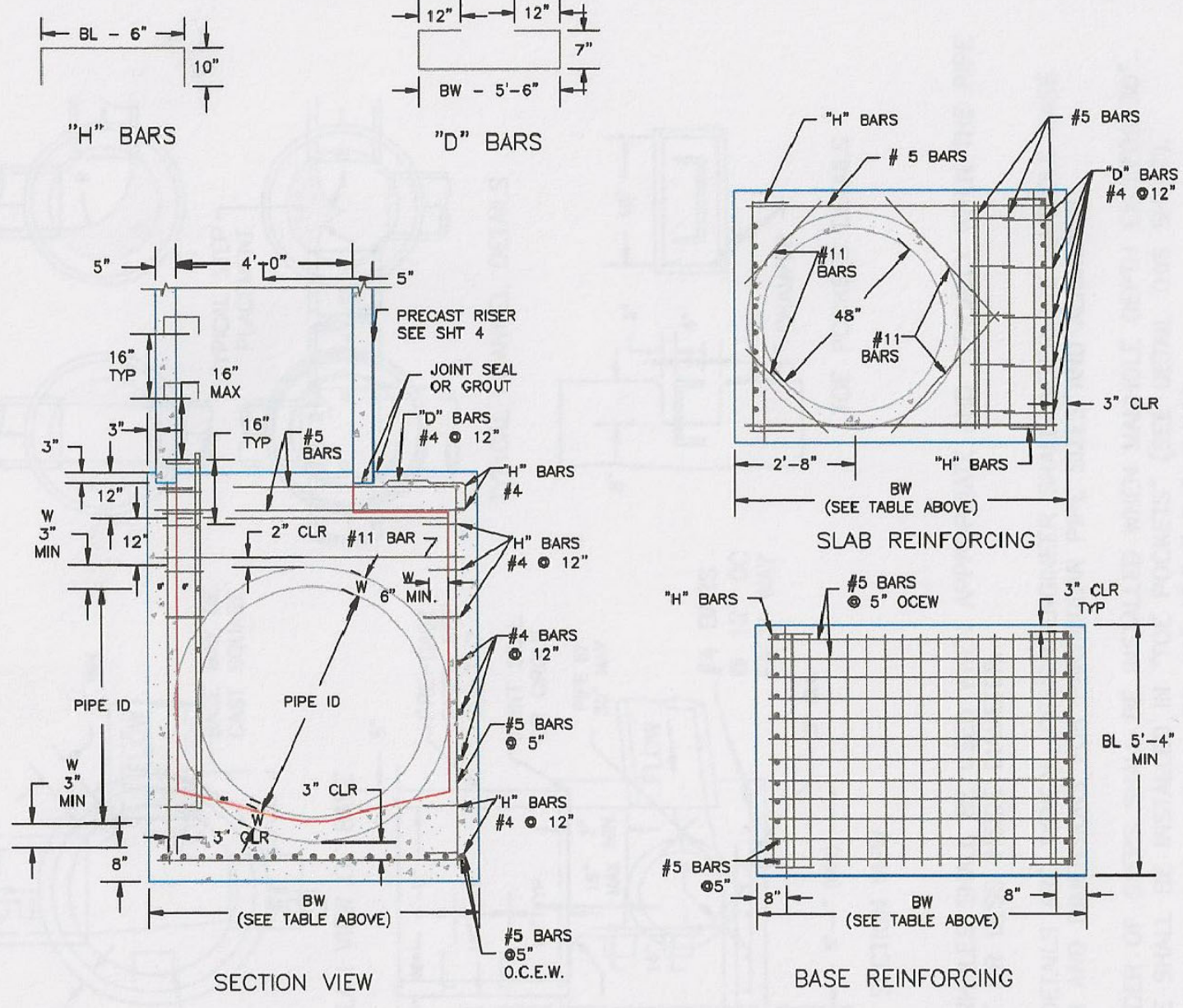
**DATE:**  
 7/9/09

**DESCRIPTION:**  
 CURB INLET TYPE R

**NO.:**  
 1

**DRAWN:** RLS  
**DESIGNED:** RLS  
**CHECKED:** RLS

STORM SEWER DETAILS



**7/9/09**  
 DATE APPROVED:  
 André Brackin  
 DEPARTMENT OF TRANSPORTATION

**Storm Sewer Manhole Detail Type I**  
 Standard Drawing

**REVISION DATE:** 7/9/09  
**FILE NAME:** SD\_3-1

**EL PASO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

**7/9/09**  
 DATE APPROVED:  
 André P. Brackin  
 DEPARTMENT OF TRANSPORTATION

**Storm Sewer Manhole Detail Type II**  
 Standard Drawing

**REVISION DATE:** 11/10/04  
**FILE NAME:** SD\_3-2

**EL PASO COUNTY**  
 DEPARTMENT OF TRANSPORTATION

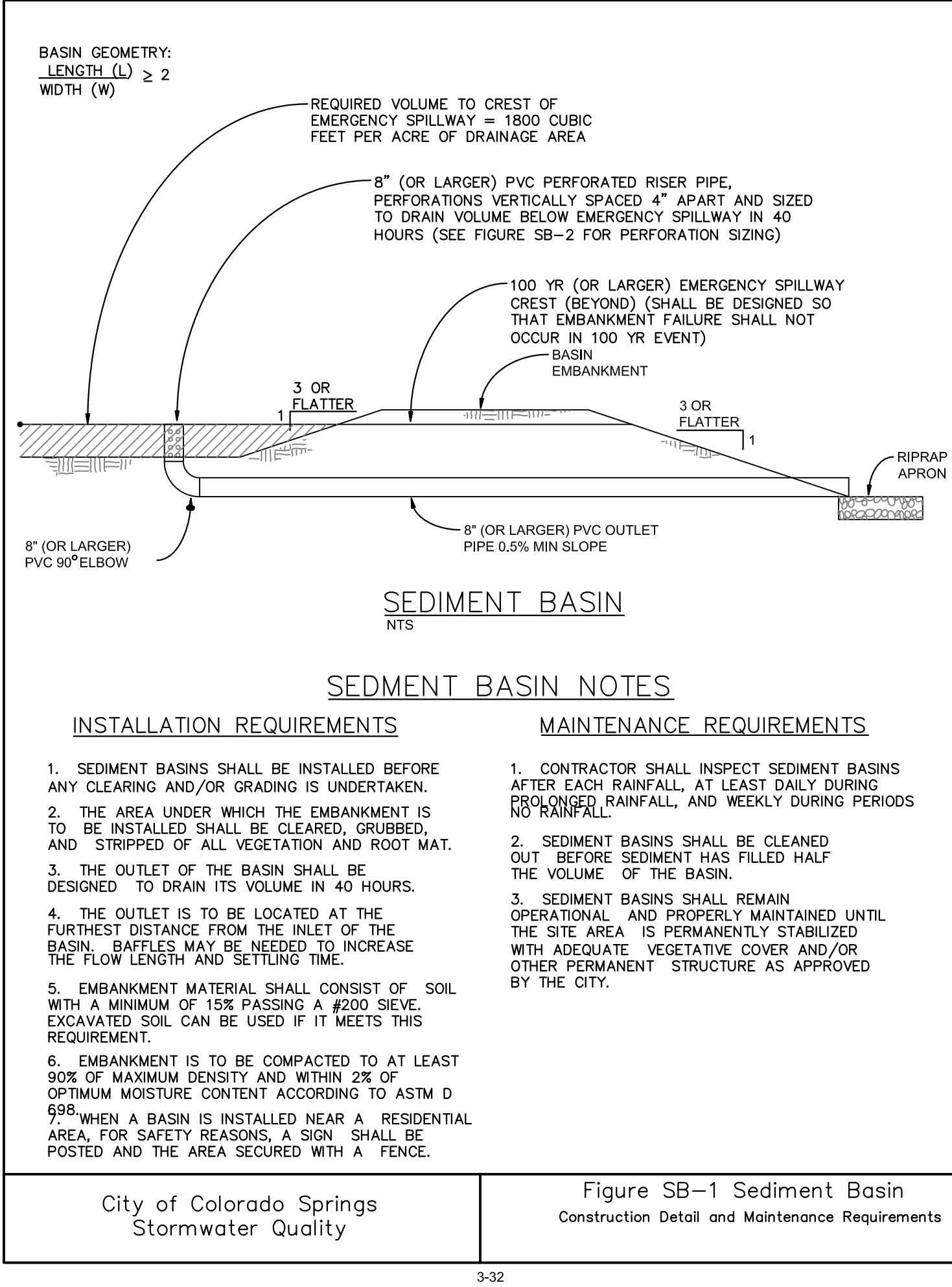
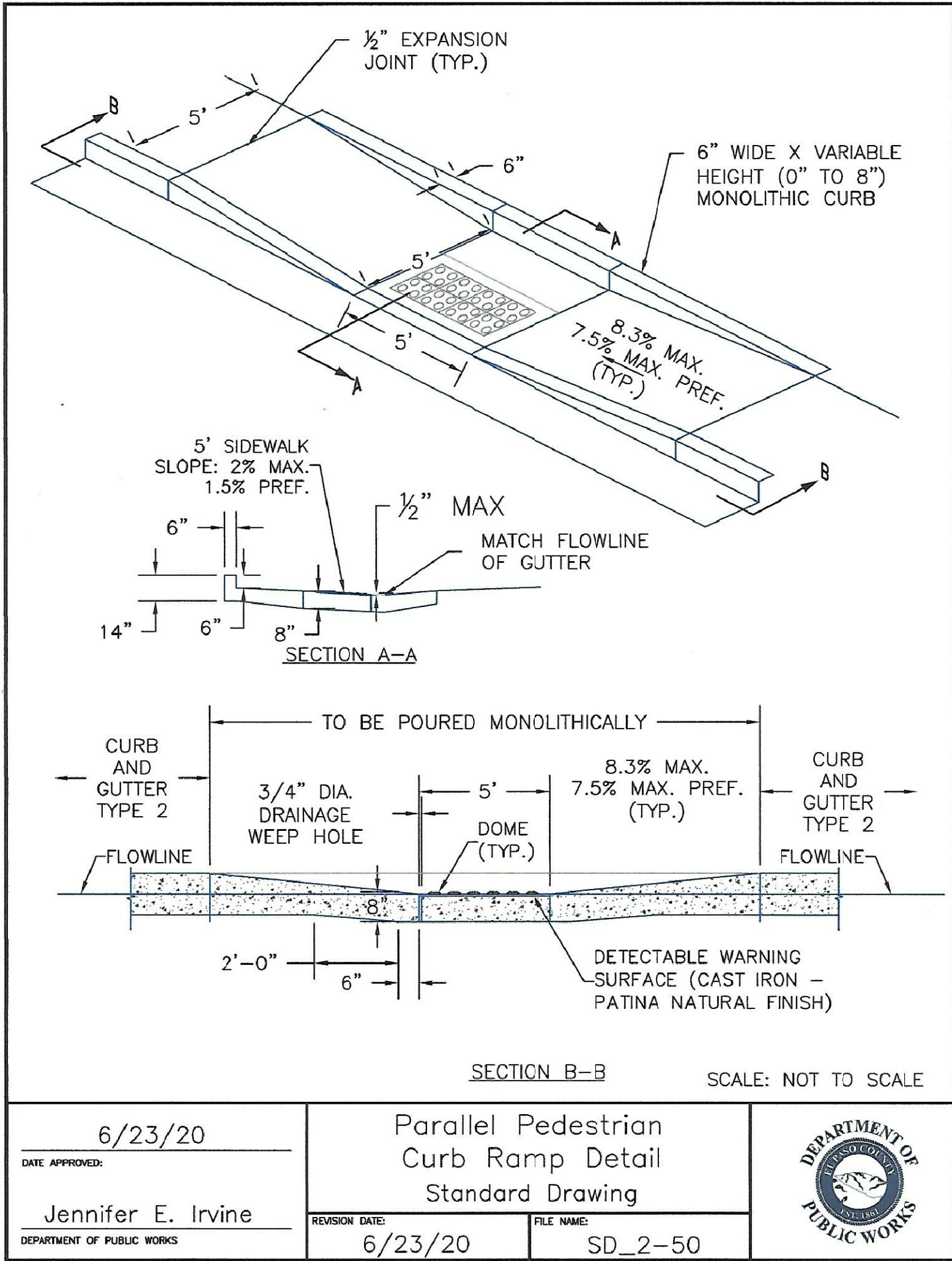
**9/16/10**  
 DATE APPROVED:  
 André P. Brackin  
 DEPARTMENT OF TRANSPORTATION

**Storm Sewer Manhole Details**  
 Standard Drawing

**REVISION DATE:** 9/16/10  
**FILE NAME:** SD\_3-5

**EL PASO COUNTY**  
 DEPARTMENT OF TRANSPORTATION





CREEKSIDE SOUTH AT  
LORSON RANCH FIL. NO. 1  
ROADWAY DETAIL SHEET

DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C10.3

TOTAL SHEETS: 58

CORE  
ENGINEERING GROUP

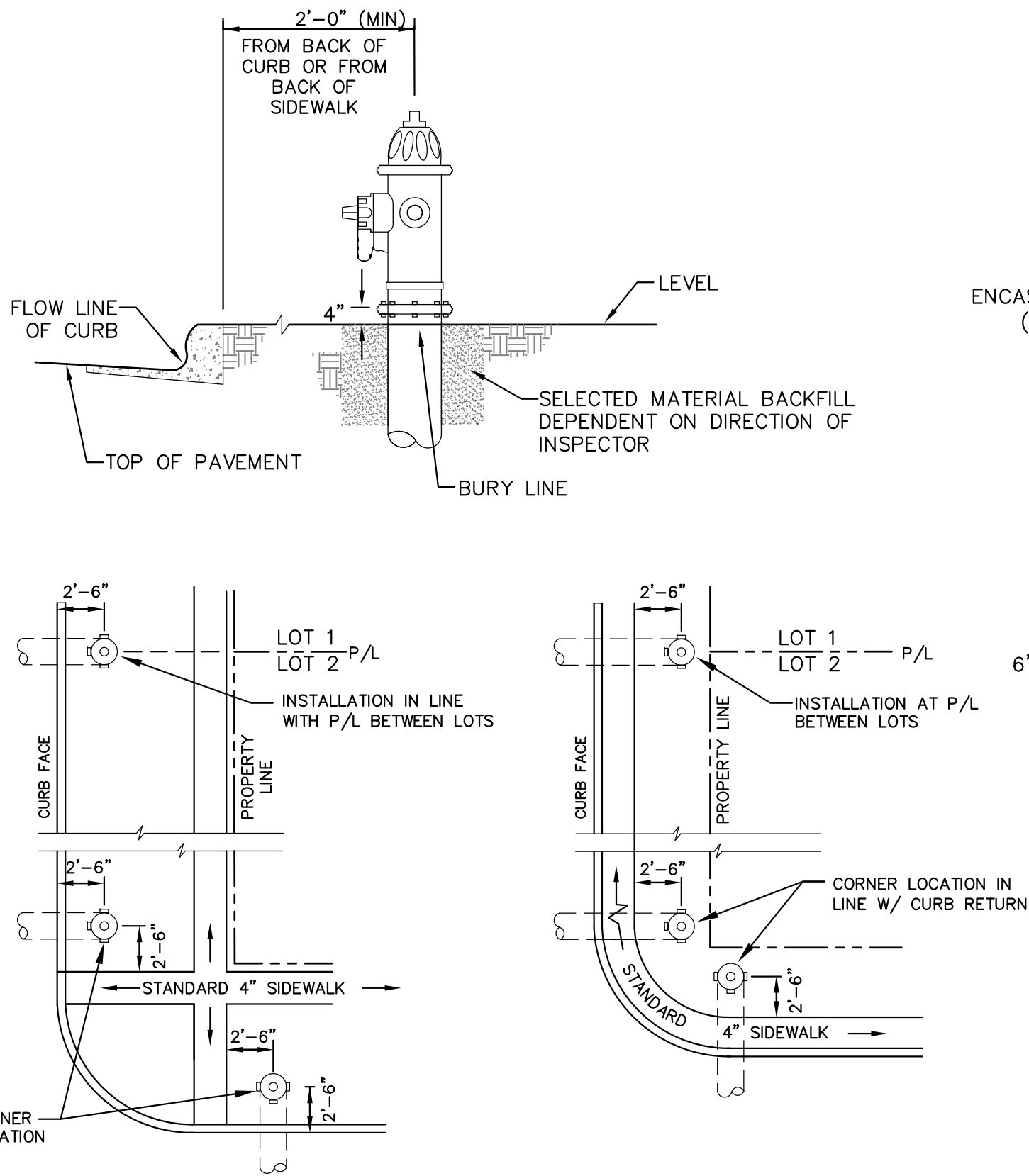
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

PROJECT:  
THE HILLS COLLECTOR  
STREET CONSTRUCTION  
LORSON BLVD - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS





DETACHED SIDEWALK LOCATION  
NO SCALE

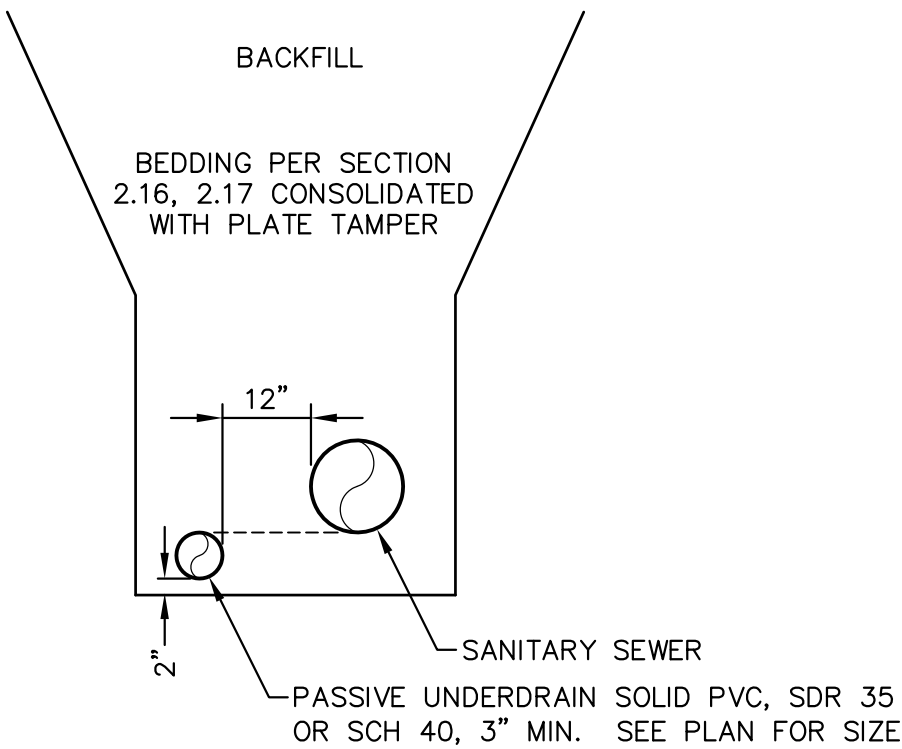
ATTACHED SIDEWALK LOCATION  
NO SCALE

NOTE  
ALL HYDRANTS SHALL BE GUARDIAN K-81D OR AVK SERIES 2700.

NOTES

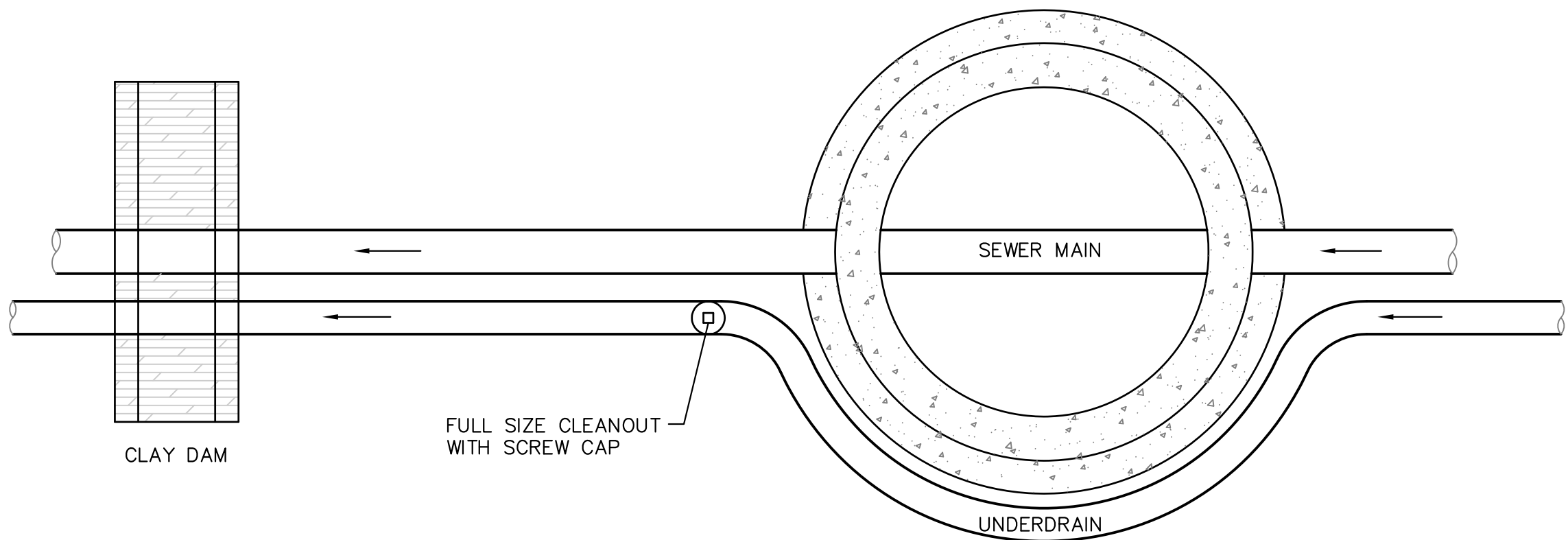
- HYDRANT NOZZLE SHALL BE POSITIONED AT RIGHT ANGLES TO CURB. IF NO CURB OR SIDEWALK EXIST, NOZZLE SHALL BE PLACED AT RIGHT ANGLE TO STREET OR ALLEY.
- HYDRANTS WILL BE PLACED A MINIMUM OF 5.0 FEET FROM ANY UTILITY OR DRAINAGE STRUCTURE (TO BE CO-ORDINATED WITH JOINT TRENCH INSTALLATION)
- ANY HYDRANT BEING INSTALLED WITH CONDITIONS OTHER THAN THOSE MENTIONED AND/OR DETAILED BELOW WILL REQUIRE SIGNED APPROVAL FROM SECURITY FIRE PROTECTION DISTRICT.

FIRE HYDRANT LOCATIONS  
NO SCALE

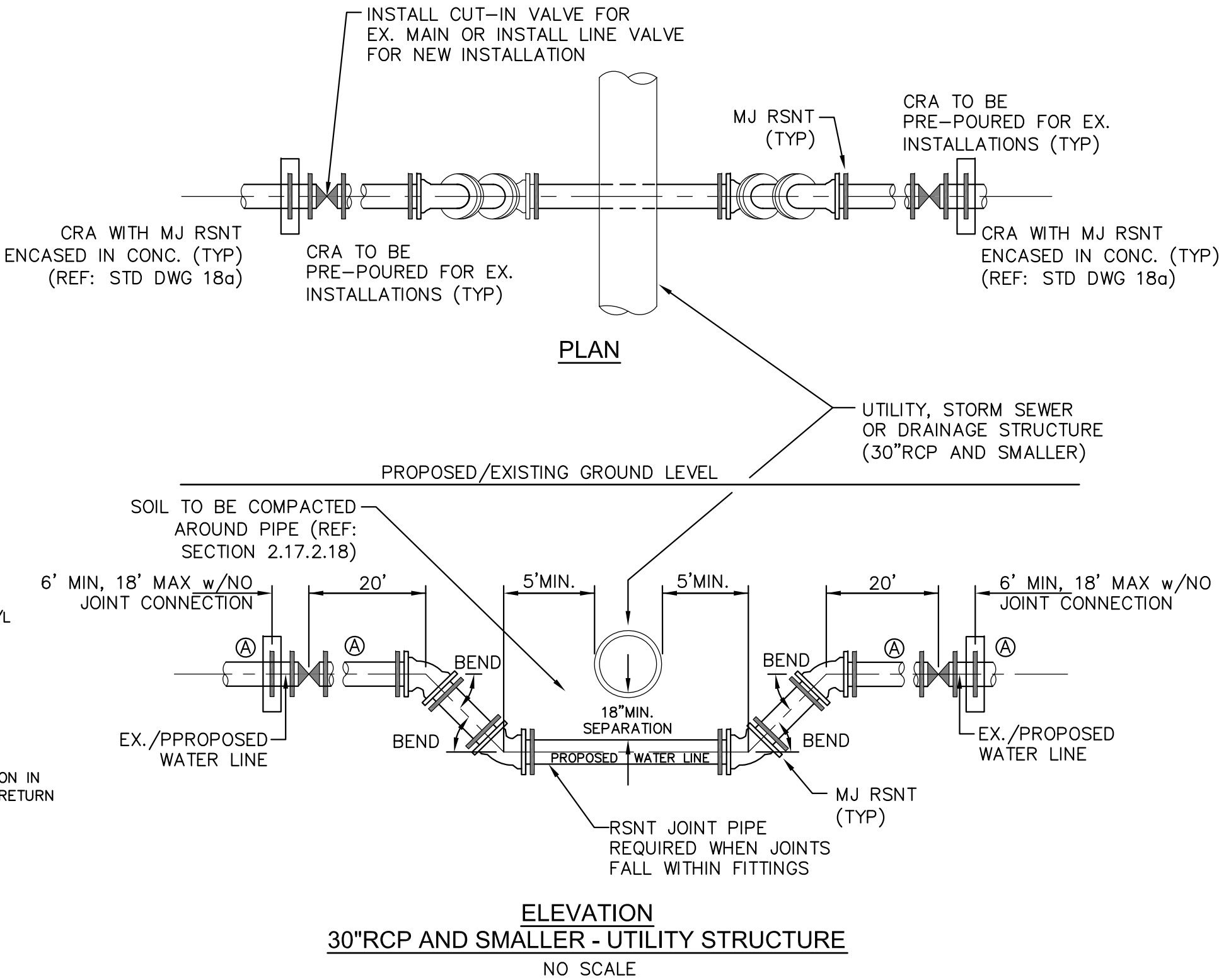


SANITARY SEWER  
PASSIVE UNDERDRAIN DETAIL  
(PER CSU STANDARD # WW-11A)  
NO SCALE

NOTE:  
POINT OF DISCHARGE TO PUBLIC SYSTEM IS REQUIRED.  
UNDERDRAIN CONNECTIONS SHALL BE 3" SCH 40.



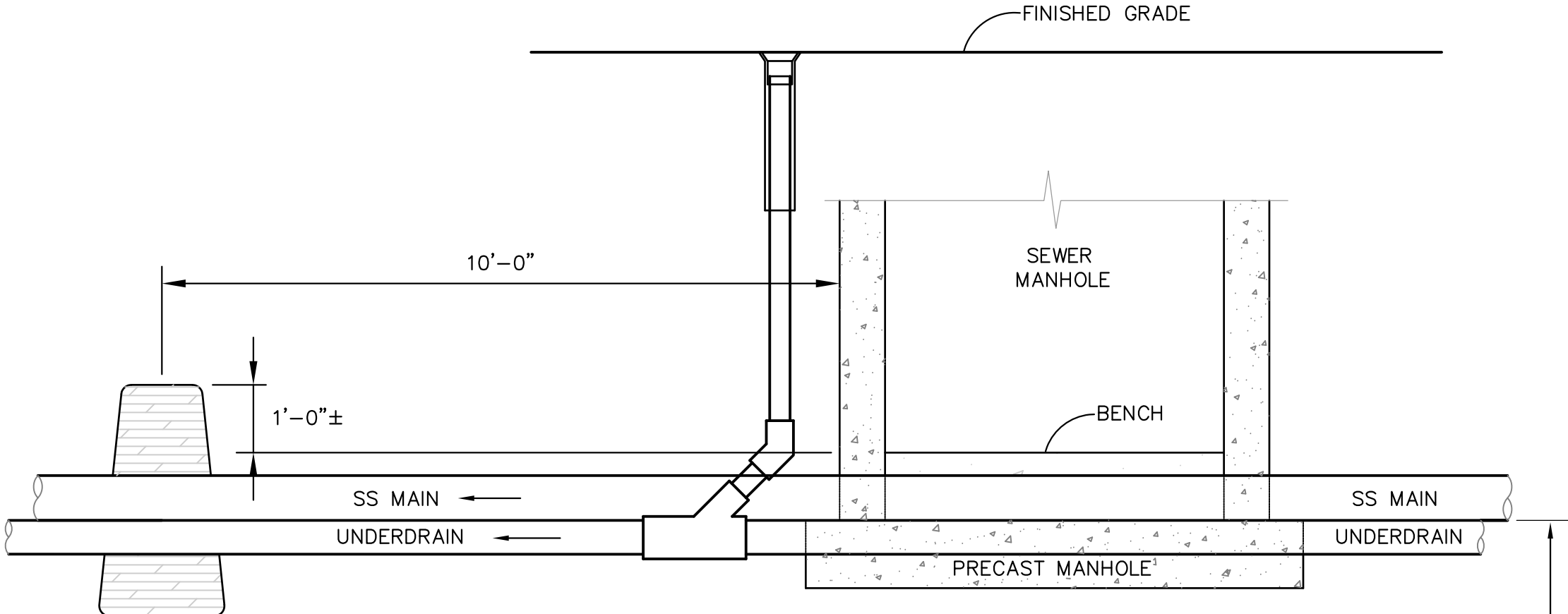
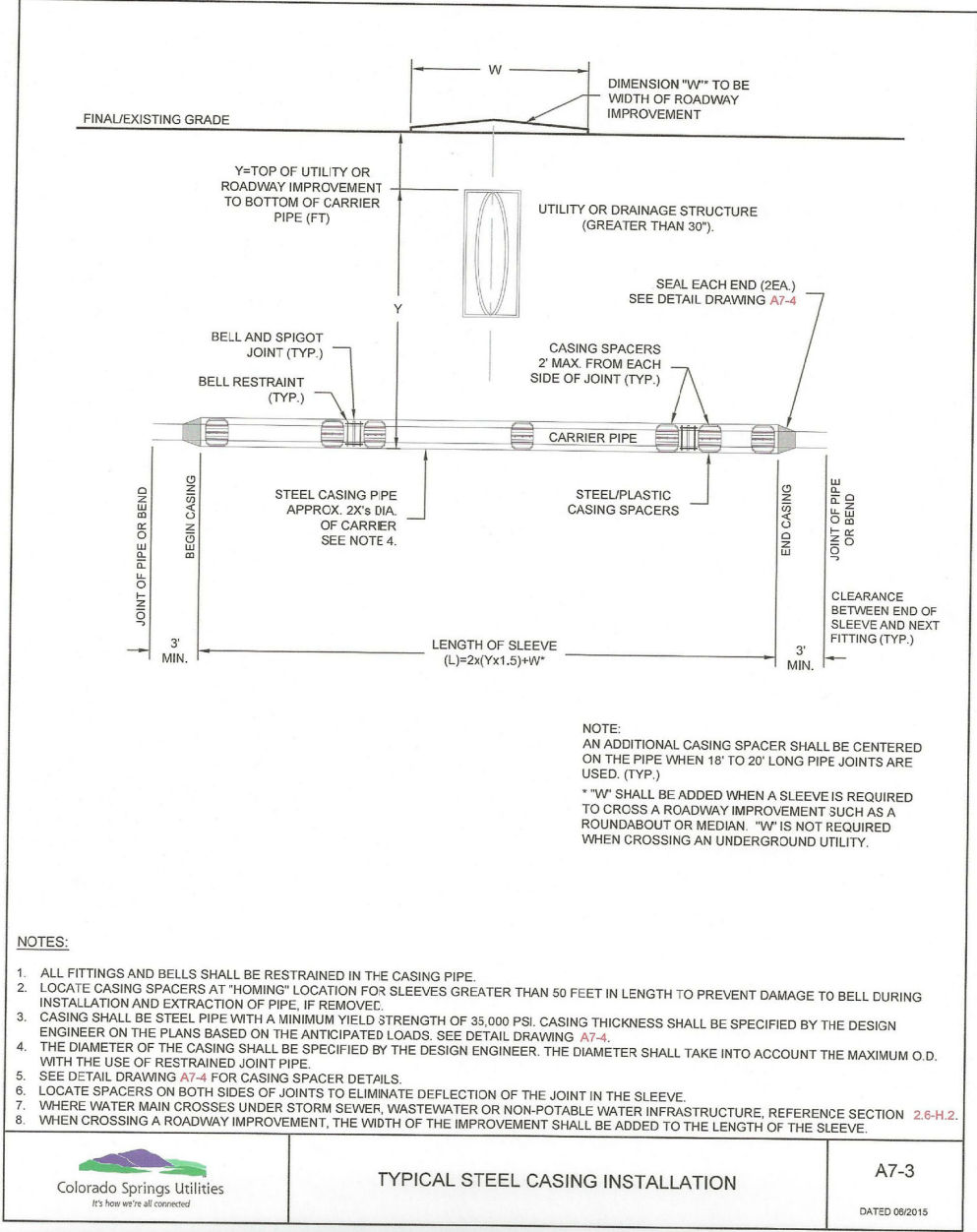
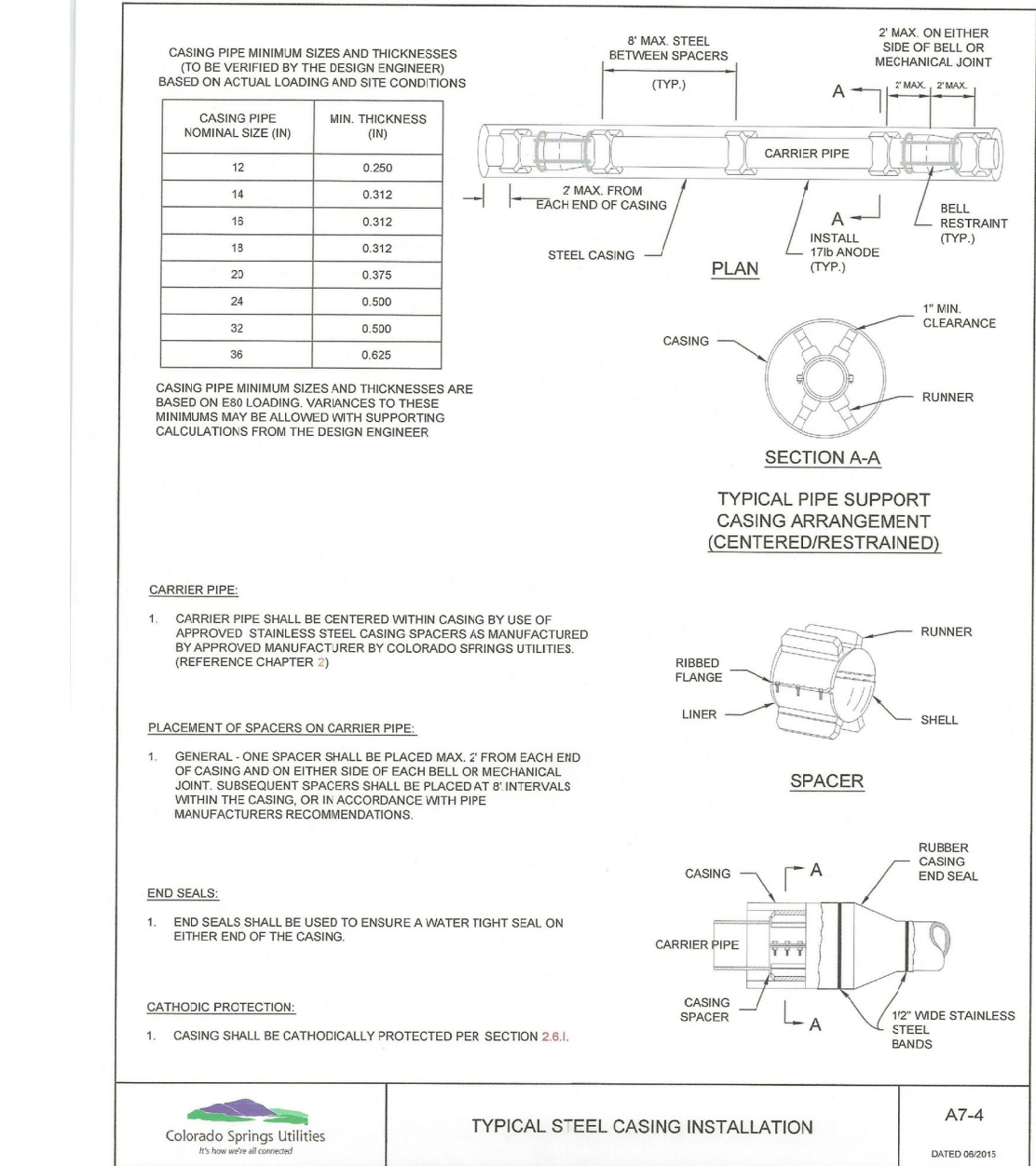
PLAN



GENERAL NOTES

- D.I.P. PIPE REQUIRED IN LOWERINGS (AT THE DISCRETION OF THE WRD/INSPECTOR PVC PIPE MAYBE APPROVED).
- Ⓐ LOWERINGS TO BE CATHODIC PROTECTED UNDER THE DIRECTION OF THE WRD INSPECTOR. (17 lb).
- ALL FITTINGS SHALL HAVE MJ RSNTS. SEE DRAWINGS NO. 27, 28 & SECTION 5.14 OF THE WRD SPECIFICATIONS.
- EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND INSPECTOR'S DIRECTION'S.

LOWERING DETAIL WITH  
MJ RSNT FITTINGS AND RSNT JOINT PIPE  
(w/APPROVAL OF W.R.D.)  
(PER CSU STANDARD # 20a)  
NO SCALE



GROUNDWATER UNDERDRAIN CLEANOUT ( PASSIVE )  
LOCATIONS OUTSIDE MANHOLE

(PER CSU STANDARD # WW-12)  
NO SCALE

WATER/SEWER  
DETAILS

CORE  
ENGINEERING GROUP  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE  
DESCRIPTION  
NO.

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSAATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-5500  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

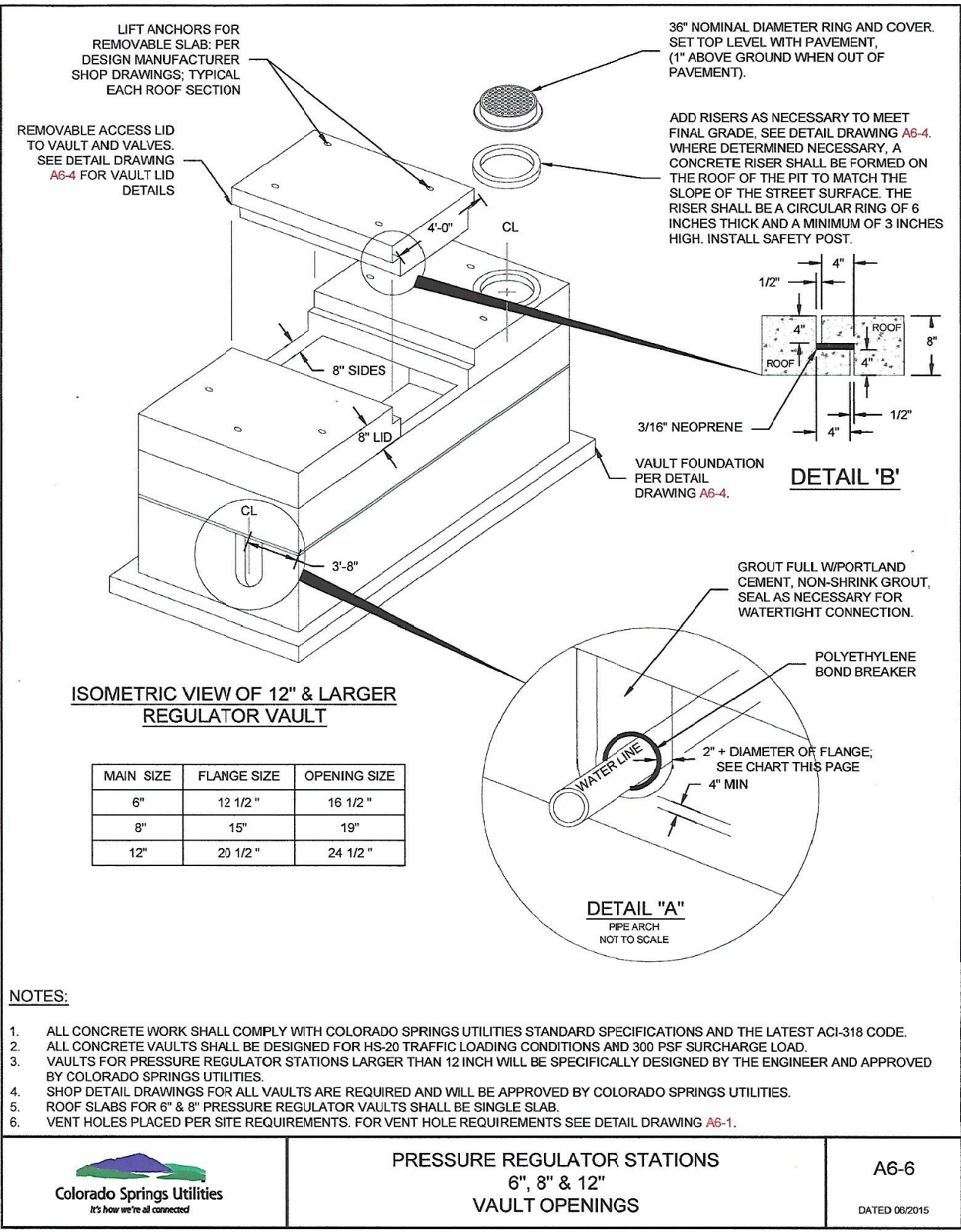
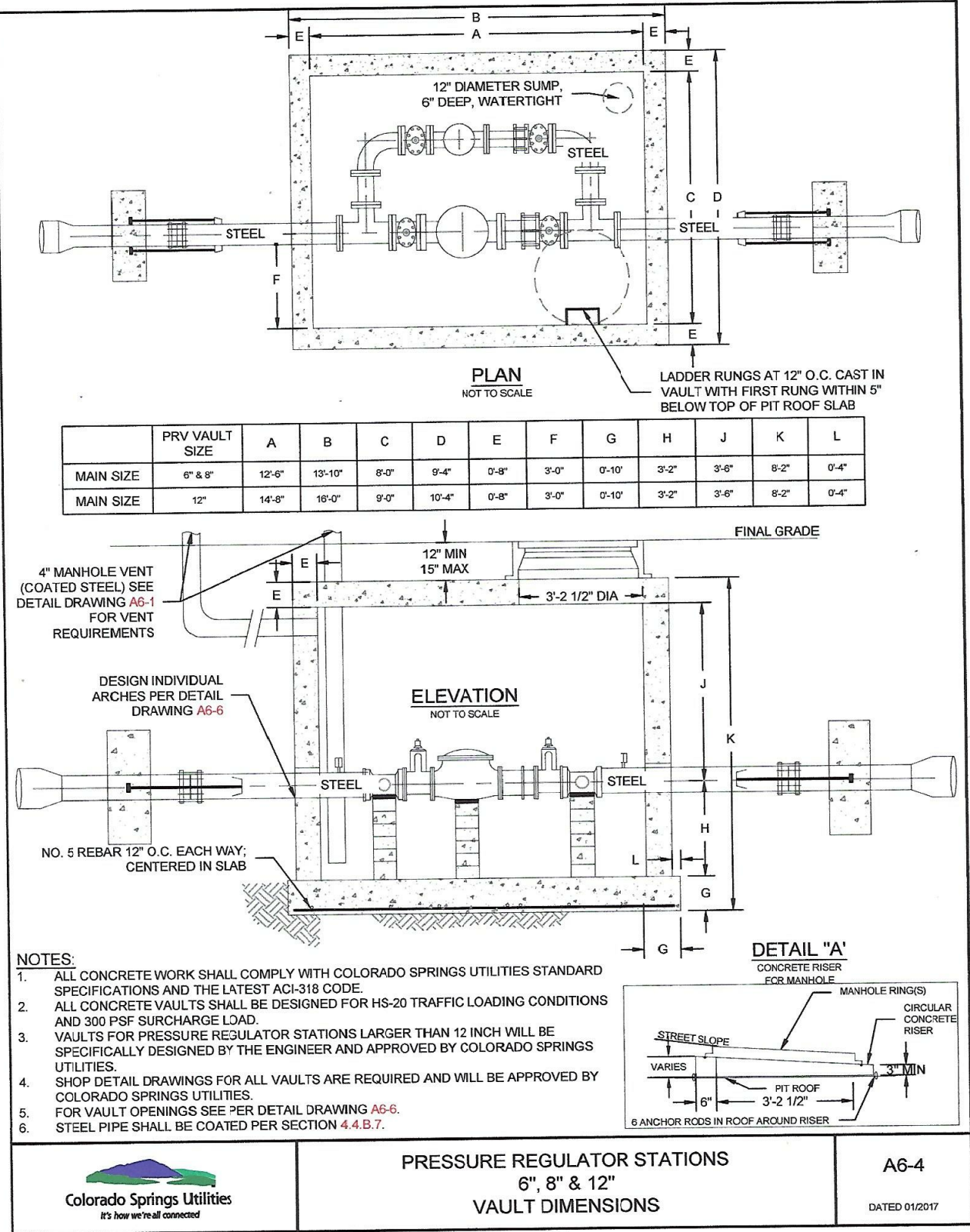
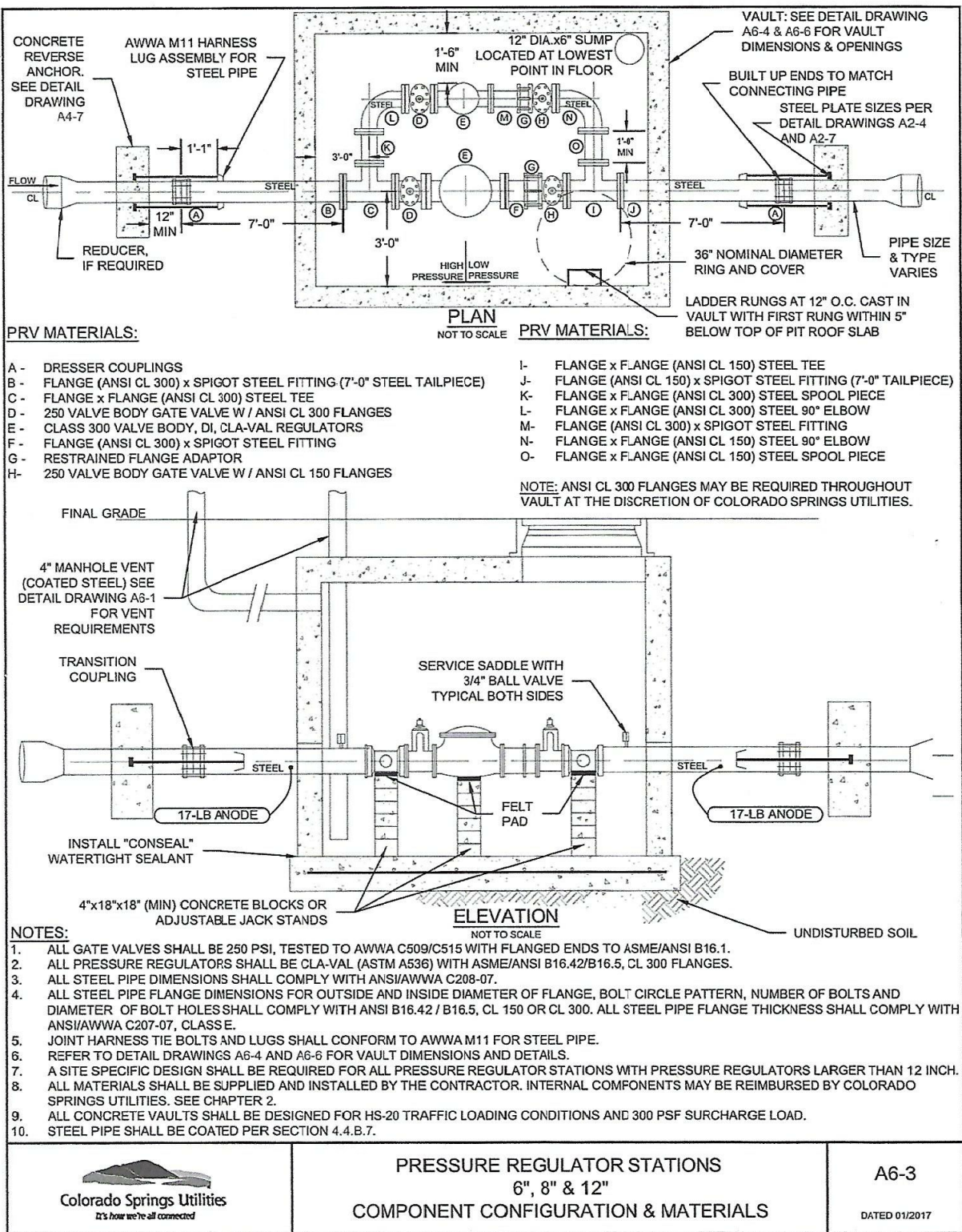
DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C12.1

TOTAL SHEETS: 58





WATER/SEWER  
DETAILS

CORE  
ENGINEERING GROUP  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE

DESCRIPTION

NO.

PREPARED FOR:  
LORSON, LLC  
212 N. WAHSAATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-5555  
CONTACT: JEFF MARK

PROJECT:  
THE HILLS COLLECTOR  
STREET CONSTRUCTION  
FONTAINE BLVD - GRAYLING DR  
LORSON BLVD - WALLACE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

DATE:  
AUGUST 2, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C12.2

TOTAL SHEETS: 58