

CONSTRUCTION PLANS  
FOR

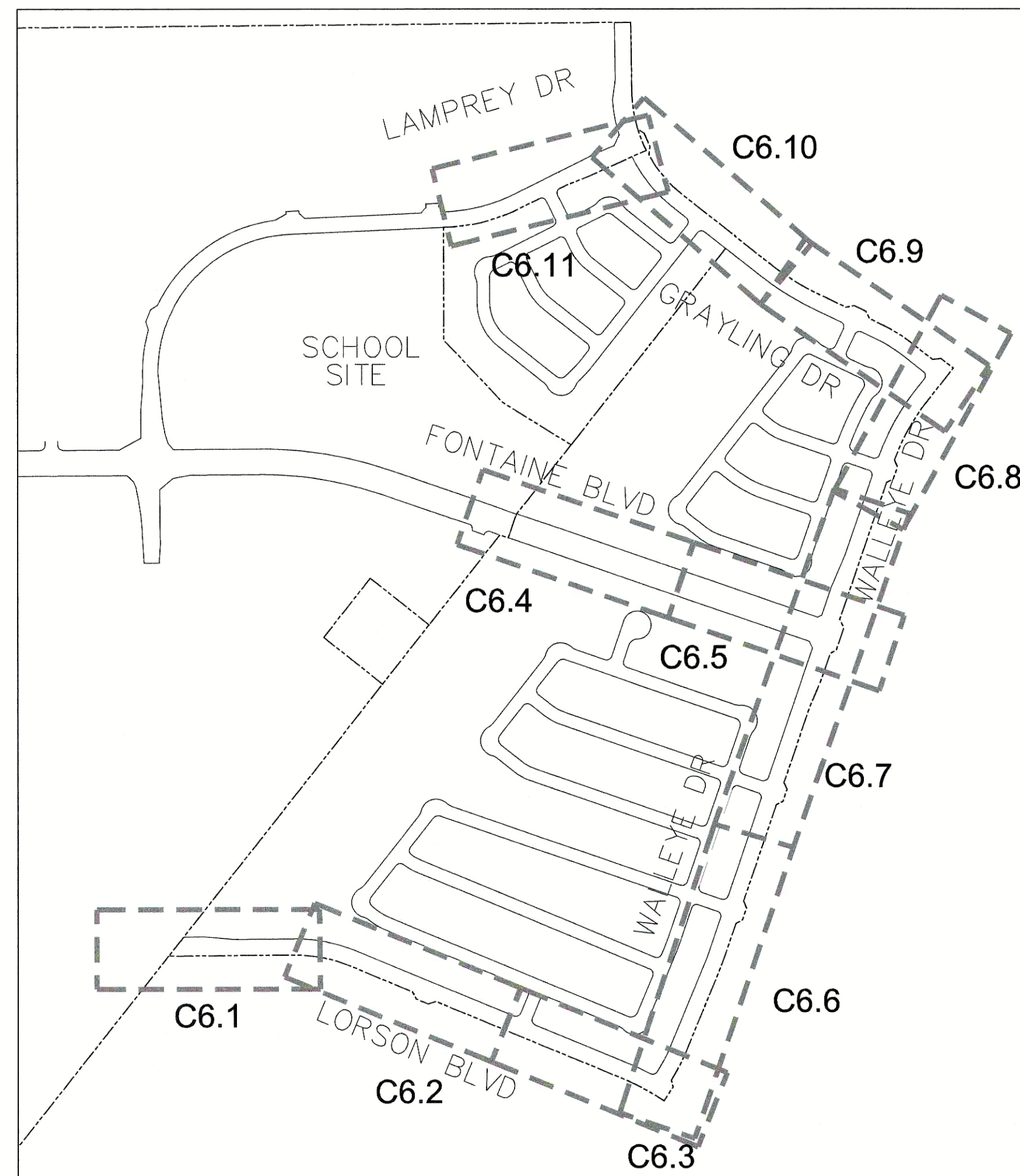
# THE HILLS AT LORSON RANCH COLLECTOR STREETS

## STREET, STORM SEWER, WATERMAIN, SANITARY SEWER CONSTRUCTION PLANS

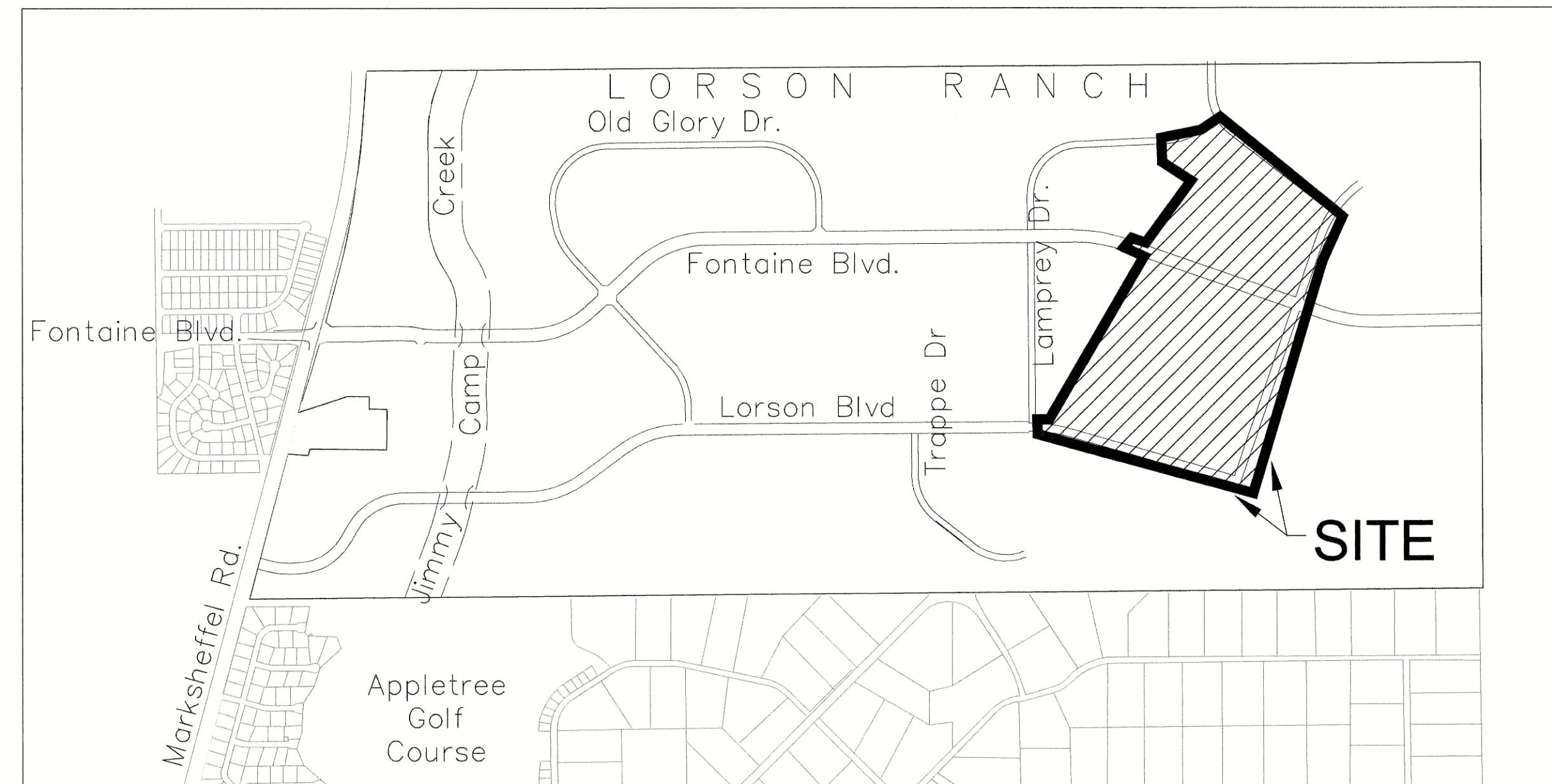


Know what's below.  
Call before you dig.

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



KEY MAP  
NO SCALE



VICINITY MAP  
NO SCALE

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**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 JEFF MARK DATE NOVEMBER 12, 2020  
 TITLE MANAGER  
 ADDRESS 212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, CO 80903

**AS-BUILT FOR  
WATER / SANITARY SEWER  
JULY 12, 2022**

**ACCEPTED FOR FILE**  
 Engineering Review  
 06/16/2023 1:16:24 PM  
 Jeff Rice - EPC Engineering  
 EPC Department of Public Works

**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°41'52" 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-B	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 11/18/2020 BY Robert R. Banerji  
 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 11/18/2020 BY Robert R. Banerji  
 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

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUALS VOLUME 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED. IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE TWO YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

**\* APPROVED**  
 Engineering Department  
 12/16/2020 7:36:05 AM  
 dsdnijkamp  
 EPC Planning & Community Development Department

**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 OF ANY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

**AS-BUILT**  
 STREET-STM  
 DEC 29, 2022

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

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

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

**THE HILLS AT LORSON RANCH  
 COLLECTOR STREET  
 CONSTRUCTION PLANS**



DATE: **NOV 12, 2020**  
 PROJECT NO: **100.061**  
 SHEET NUMBER: **C0.1**  
 TOTAL SHEETS: 58

**CONSTRUCTION NOTES**

- ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
- EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM DREXEL, BARRELL & CO., JULY, 2005. SUPPLEMENTAL SURVEY DATA WAS OBTAINED FOR MARKSHEFFEL ROAD FROM M&S CIVIL GROUP IN NOVEMBER, 2016. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:  
BASE OF ALL CUTS AND FILLS - 12 INCHES,  
FULL DEPTH OF ALL EMBANKMENTS
- THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER Tired VEHICLE (GVW OF 50,000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.
- SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
- FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
  - HAY BALE BARRIERS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY SEDIMENTATION BASINS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
  - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
  - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
  - CONCRETE WASH AREAS.
  - INLET PROTECTION.
 THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.
- FINISHED CONTOURS/SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES. ALL PAVEMENT SUBGRADES ARE BASED ON THE COMPOSITE ASPHALT PAVEMENT RECOMMENDATIONS MADE IN THE "GEOTECHNICAL STUDY" FOR LORSON RANCH.

**EL PASO COUNTY STANDARD CONSTRUCTION NOTES:**

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

**STORM SEWER NOTES:**

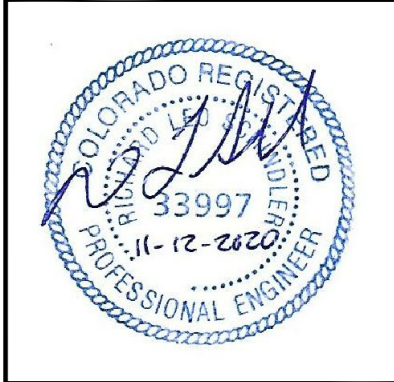
- CONTRACTOR SHALL USE "TYLOX SUPER SEAL" OR APPROVED EQUIL JOINT GASKET FOR ALL RCP STORM SEWER JOINTS

**CORE ENGINEERING GROUP**  
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CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rls@cegi.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
PREPARED FOR: LORSON, LLC  
212 N. WASHATCH AVE., SUITE 301  
COLORADO SPRINGS, CO 80903  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
FONTAINE BLVD GRAYLING DR. INTERSECTION  
LORSON RANCH, SECTION 17 DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

THE HILLS AT LORSON RANCH  
STREET / STORM SEWER  
NOTES



**AS-BUILT**  
**STREET-STM**  
**DEC 29, 2022**

DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C1.2a  
TOTAL SHEETS: 58

WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES

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.
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.
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.
4. ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHYLENE TUBING, BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
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.
6. PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
7. ALL FITTINGS SHALL BE DUCTILE IRON –MECHANICAL JOINT AND HAVE 9 LB. MAGNESIUM ANODES AT EVERY FITTING.
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.
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.
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.
11. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
12. ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.
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.
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.
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.
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.
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.
18. PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION CONFERENCE IS REQUIRED 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. NO PRE-CONSTRUCTION CONFERENCE TIMES WILL BE SET UNTIL 4 SETS OF SIGNED DRAWINGS ARE RECEIVED BY THE WIDEFIELD W & S DISTRICT. PRE-CONSTRUCTION DATE /INITIALS

WIDEFIELD WATER AND SANITATION DISTRICT UTILITY CONSTRUCTION NOTES

1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE CATHODIC PROTECTION AND 9 LB MAGNESIUM ANODES AT EVERY FITTING.
2. ALL FIRE HYDRANTS SHALL BE GUARDIAN K-81D HYDRANT KENNEDY VALVE OR AMERICAN AVK SERIES 2700, (MODERN)

UNDERDRAIN CONSTRUCTION NOTES

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.
2. ALL PVC UNDERDRAIN MAINS SHALL BE 4" PVC, SDR 35.
3. UNDERDRAIN LATERALS SHALL BE 3" PVC, SDR 35
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.
5. PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
6. ALL FITTINGS SHALL BE DUCTILE IRON –MECHANICAL JOINT AND HAVE 1 LB. MAGNESIUM ANODES AT EVERY FITTING.
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.
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.
9. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
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.

**AS-BUILT  
STREET-STM  
DEC 29, 2022**

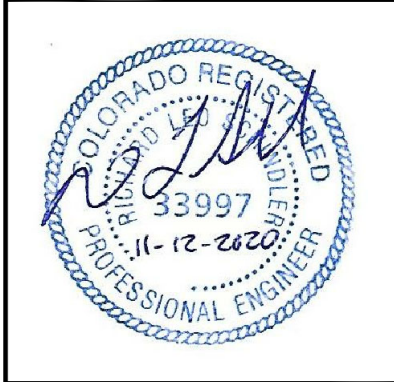
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rlen@cegi.com

DATE  
DESCRIPTION  
NO.  
PREPARED FOR:  
**LORSON, LLC**  
212 N. WASHATCH AVE., SUITE 301  
COLORADO SPRINGS, CO 80903  
CONTACT: JEFF MARK

PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD GRAYLING DR. INTERSECTION  
LORSON RANCH, COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**THE HILLS AT LORSON RANCH  
SANITARY SEWER/WATERMAIN  
NOTES**

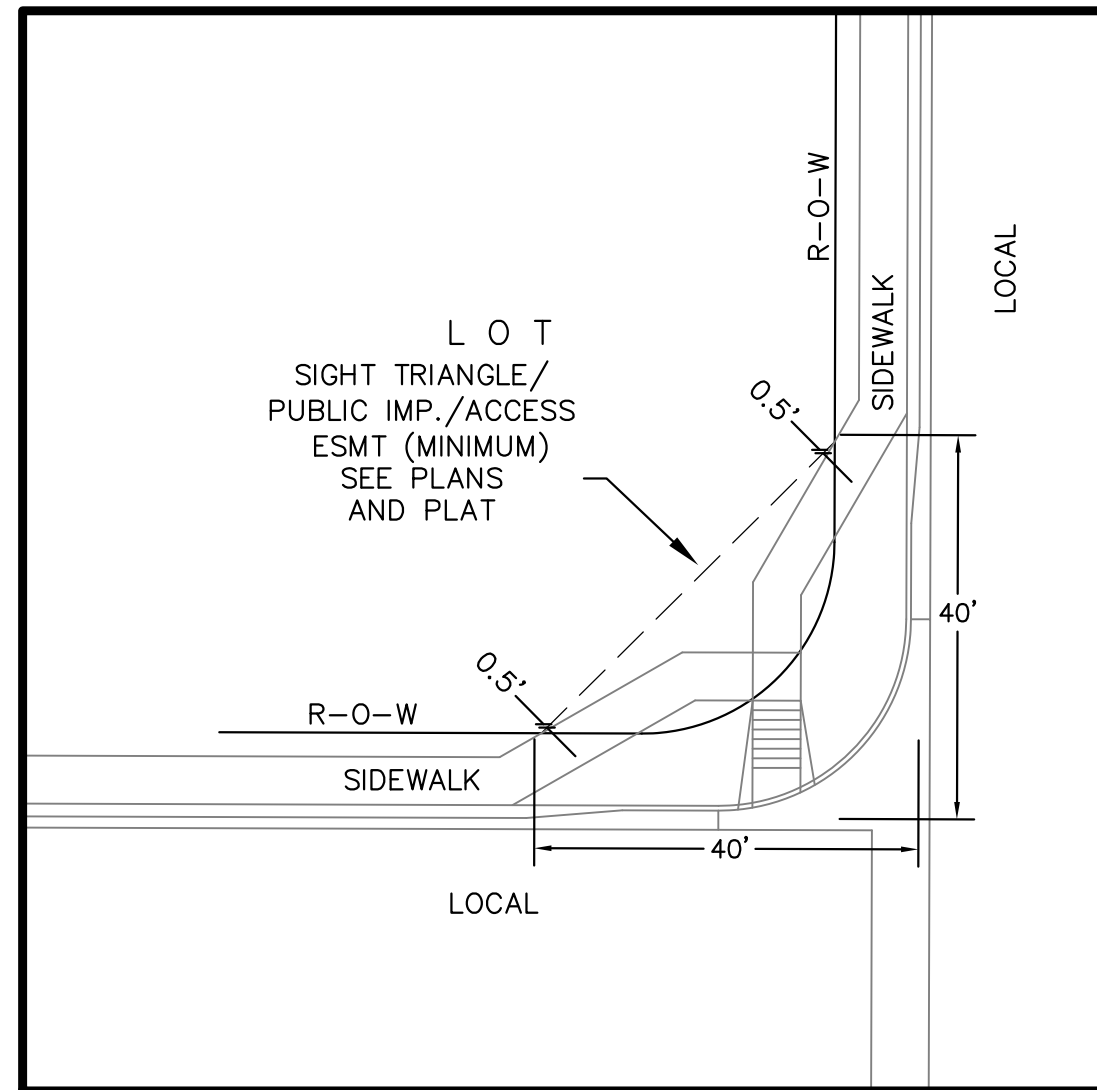


DATE:  
NOV 12, 2020

PROJECT NO.  
100.061

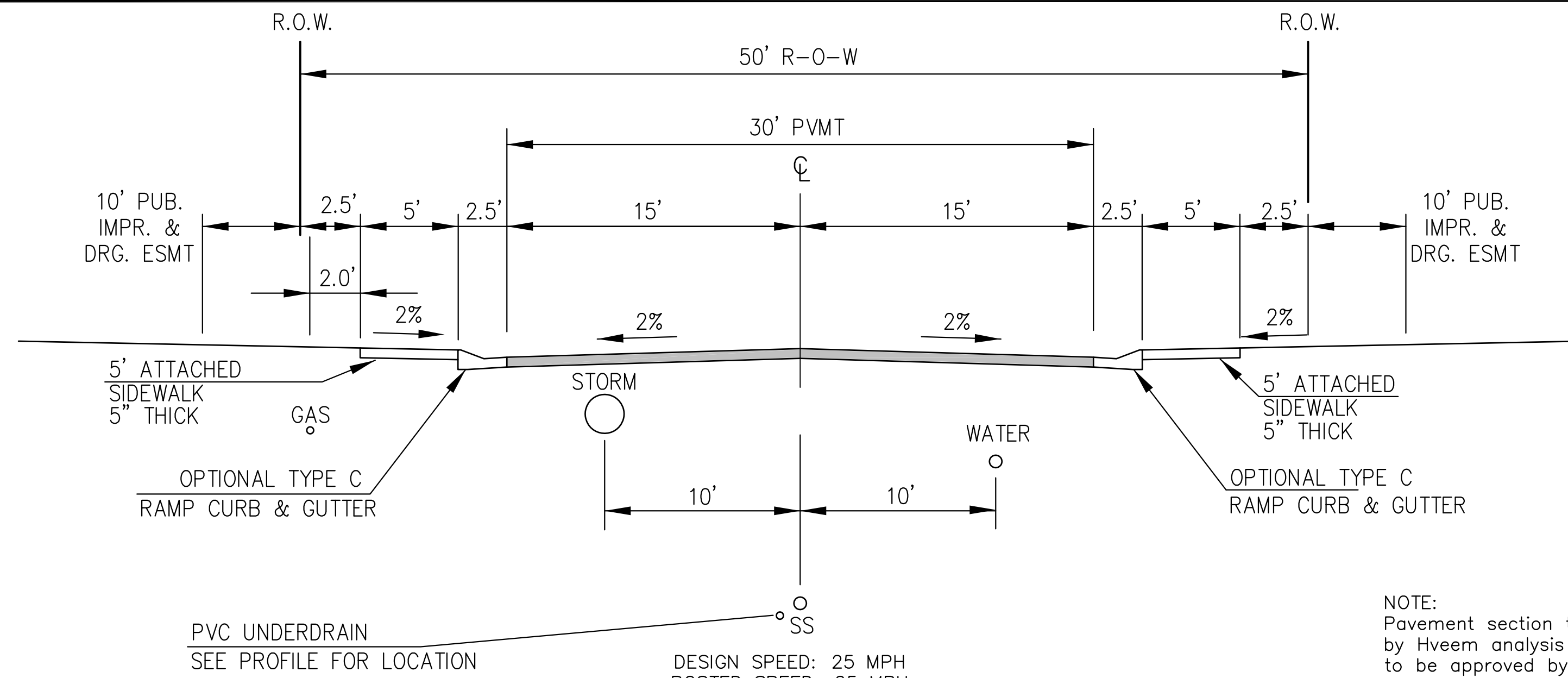
SHEET NUMBER  
C1.2b

TOTAL SHEETS: 58



**LOCAL ROADWAY SIGHT TRIANGLE  
PUBLIC IMPROVEMENT ESMT.**  
NOT TO SCALE

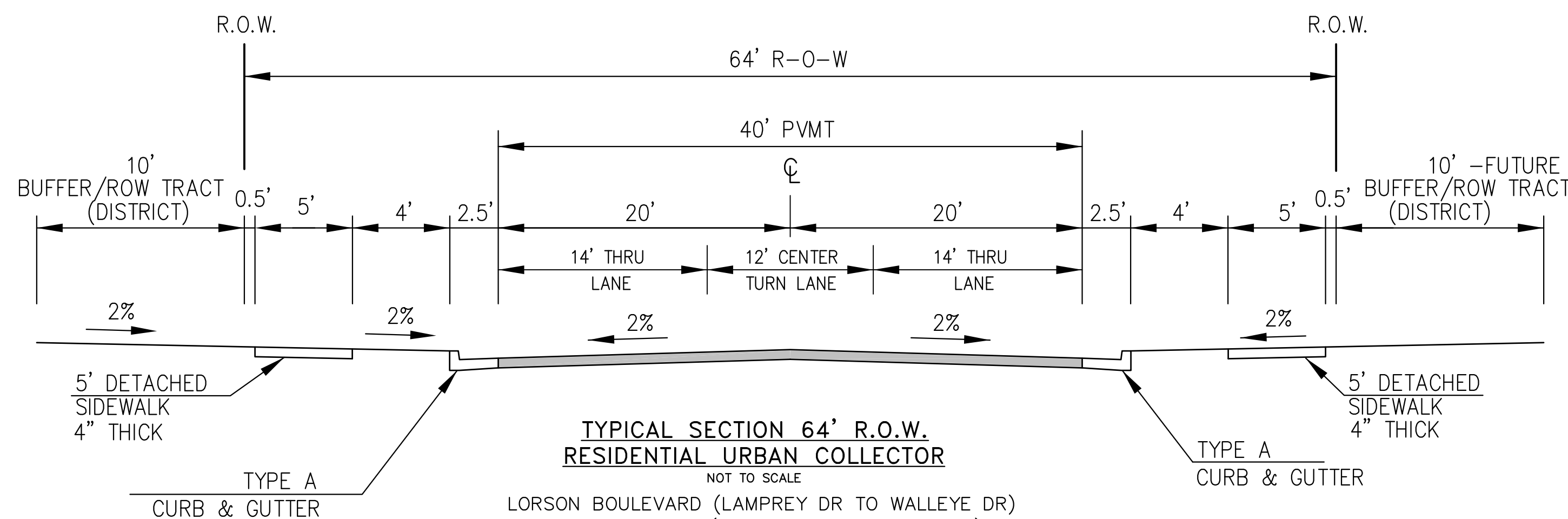
NOTE:  
ADDITIONAL PUBLIC IMPROVEMENT EASEMENTS ARE REQUIRED WHERE  
SIDEWALK ENCLOSES INTO THE PRIVATE LOTS. SEE CONSTRUCTION DRAWINGS  
AND THE FINAL PLAT. SEE CONSTRUCTION DRAWINGS AND PLAT FOR SIGHT TRIANGLES



**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

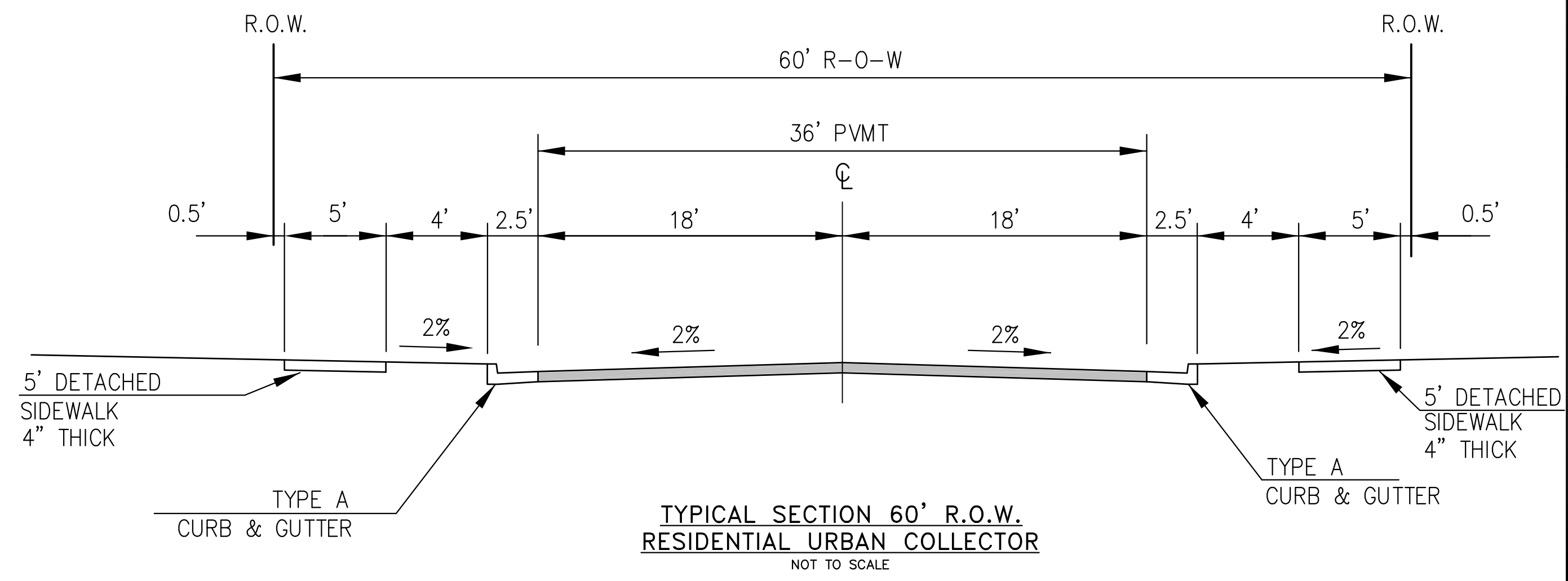


**TYPICAL SECTION 64' R.O.W.  
RESIDENTIAL URBAN COLLECTOR**  
NOT TO SCALE

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

DESIGN SPEED: 40 MPH  
POSTED SPEED: 35 MPH

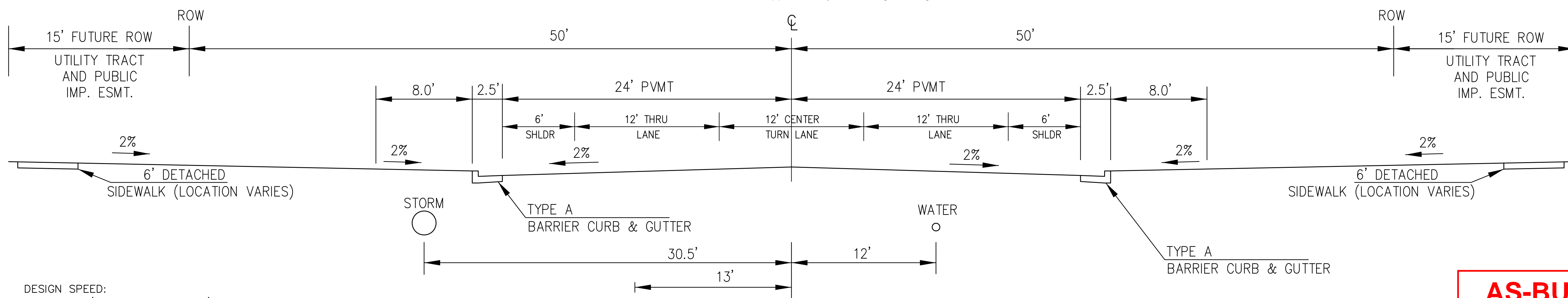
NOTE:  
Pavement section to be determined  
by Hveem analysis and design. Design  
to be approved by PCD Engineering



**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



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

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

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

**AS-BUILT  
STREET-STM  
DEC 29, 2022**

**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. WASHBACH AVE., SUITE 301  
COLORADO SPRINGS, COLORADO 80903

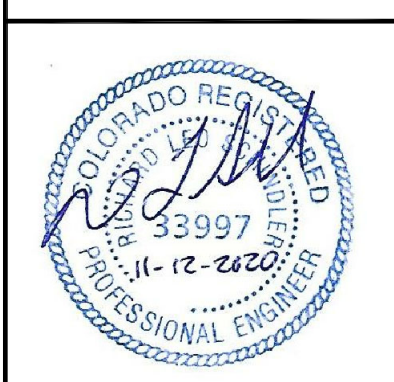
PROJECT:  
**THE HILLS COLLECTOR  
STREET CONSTRUCTION**  
FONTAINE BLVD TO GRAYLING DR. DR  
COLORADO SPRINGS, COLORADO

CONTACT: JEFF MARK

NO.	DESCRIPTION	DATE

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**TYPICAL SECTIONS**

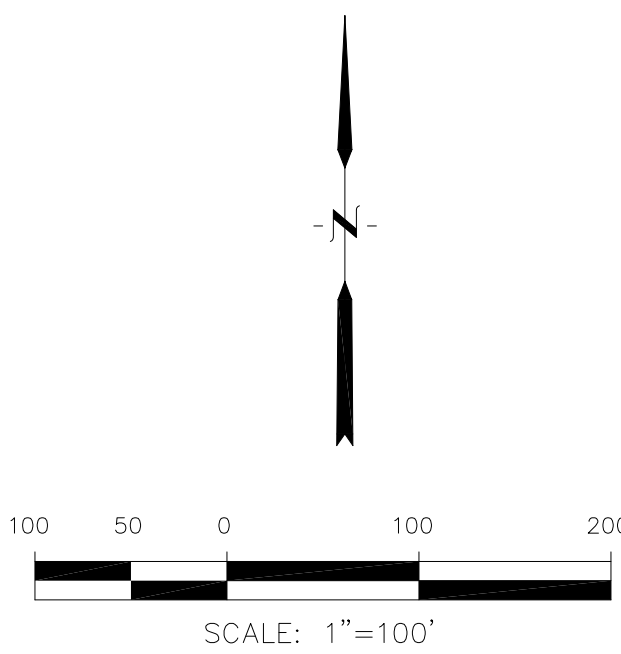
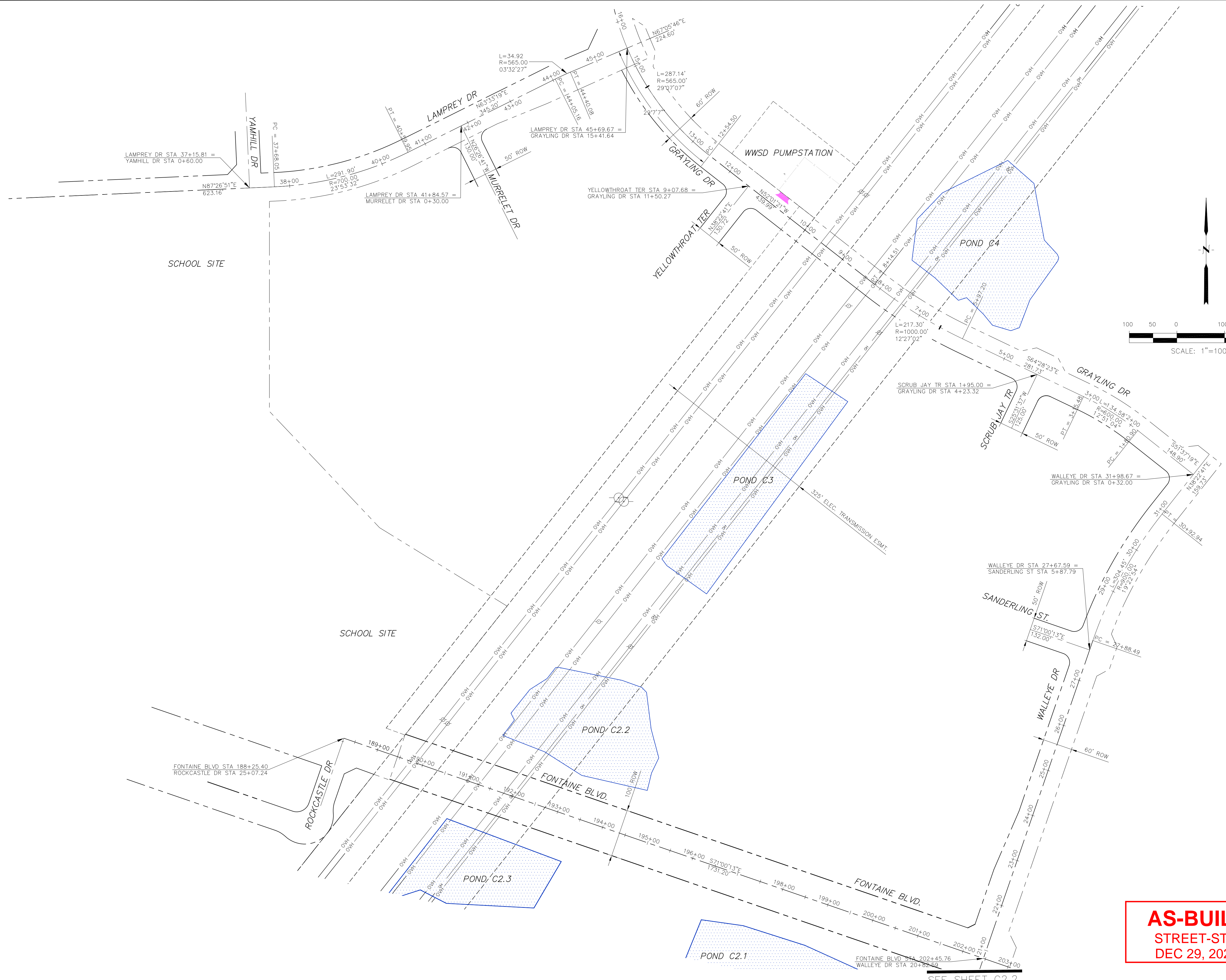


DATE:  
NOV 12, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
C13

TOTAL SHEETS: 58



AS-BUILT  
STREET-STM  
DEC 29, 2022

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cog1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO. \_\_\_\_\_

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

**HORIZONTAL CONTROL PLAN**



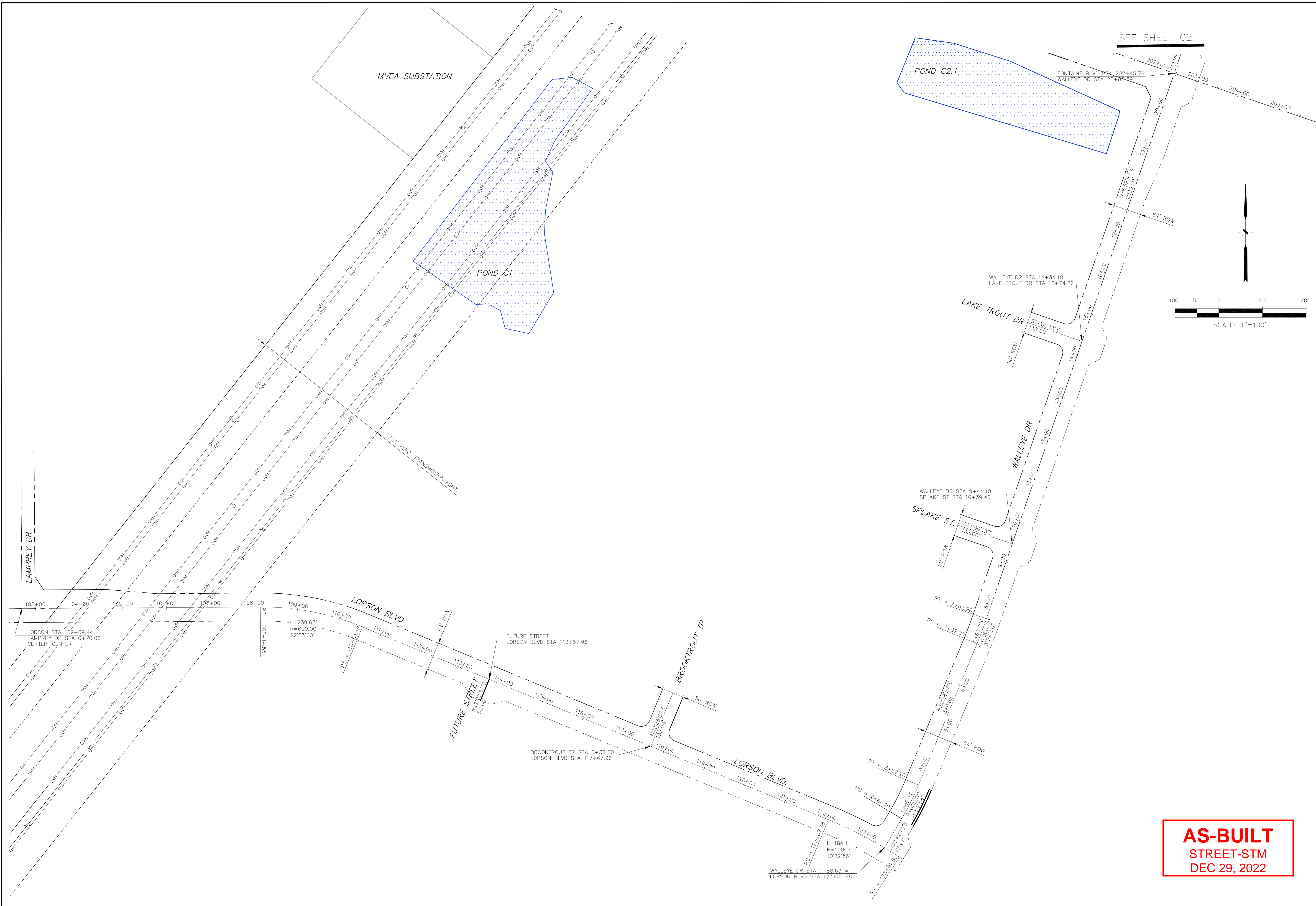
DATE:  
NOV 12, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
**C2.1**

TOTAL SHEETS: 58

SEE SHEET C2.2



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cog1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO. \_\_\_\_\_

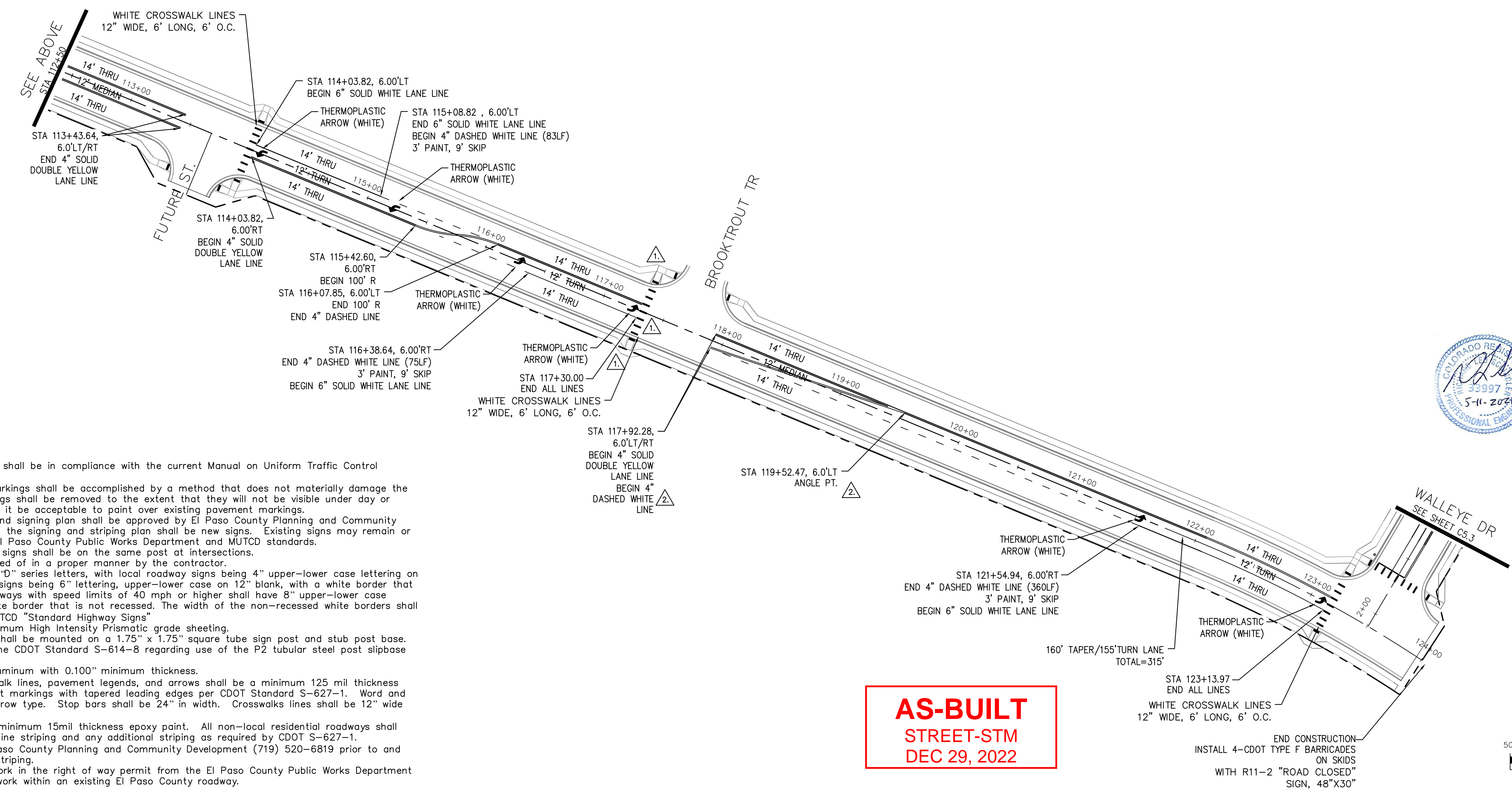
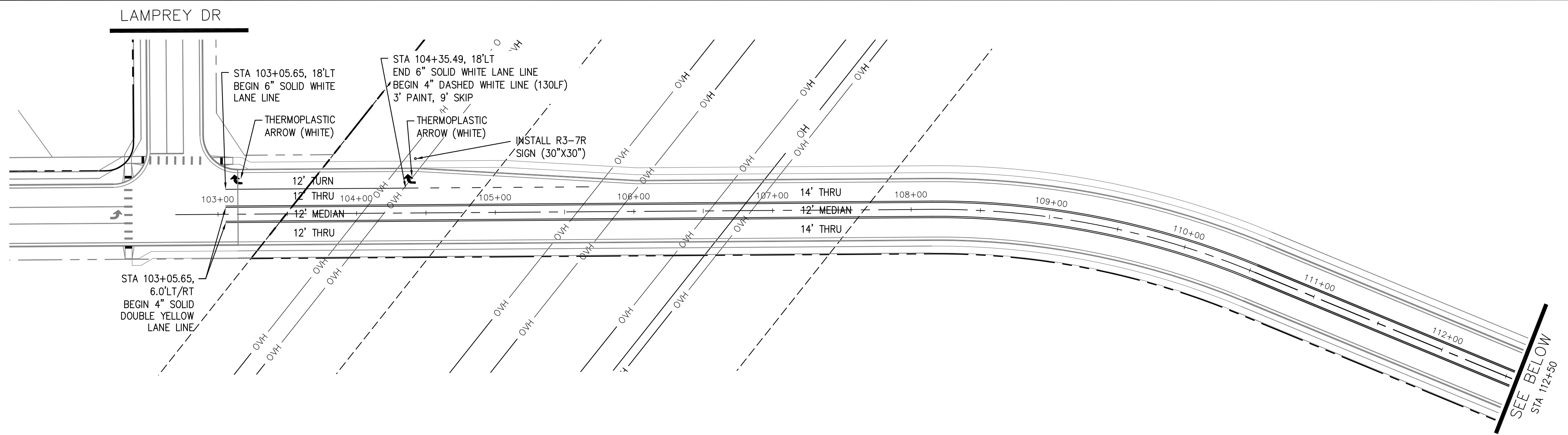
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**HORIZONTAL CONTROL PLAN**

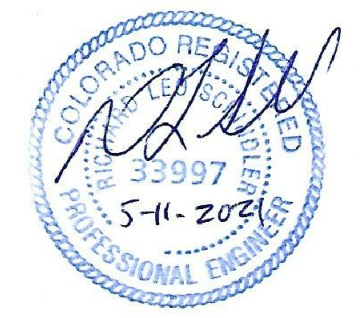


DATE: NOV 12, 2020  
PROJECT NO: 100.061  
SHEET NUMBER: C2.2  
TOTAL SHEETS: 58



- Signing and Striping Notes:**
- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  - Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
  - Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
  - Street name and regulatory stop signs shall be on the same post at intersections.
  - All removed signs shall be disposed of in a proper manner by the contractor.
  - All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 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".
  - All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  - All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
  - All signs shall be single sheet aluminum with 0.100" minimum thickness.
  - All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
  - All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
  - The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  - The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.

**AS-BUILT  
STREET-STM  
DEC 29, 2022**



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNING WOODS, CO 80903  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: 12/17/2020  
05/11/2021  
DESCRIPTION: ADD PEDESTRIAN RAMPS/CROSSINGS  
MODIFY STRIPING FOR TURN LANES

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

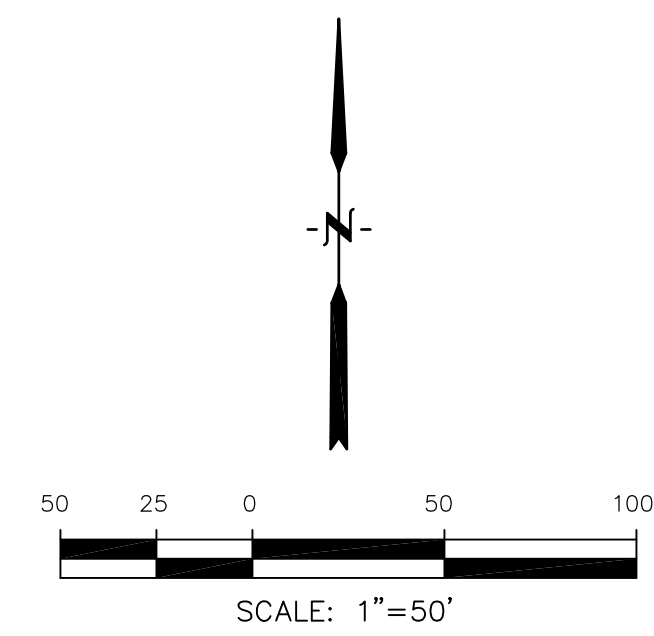
PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

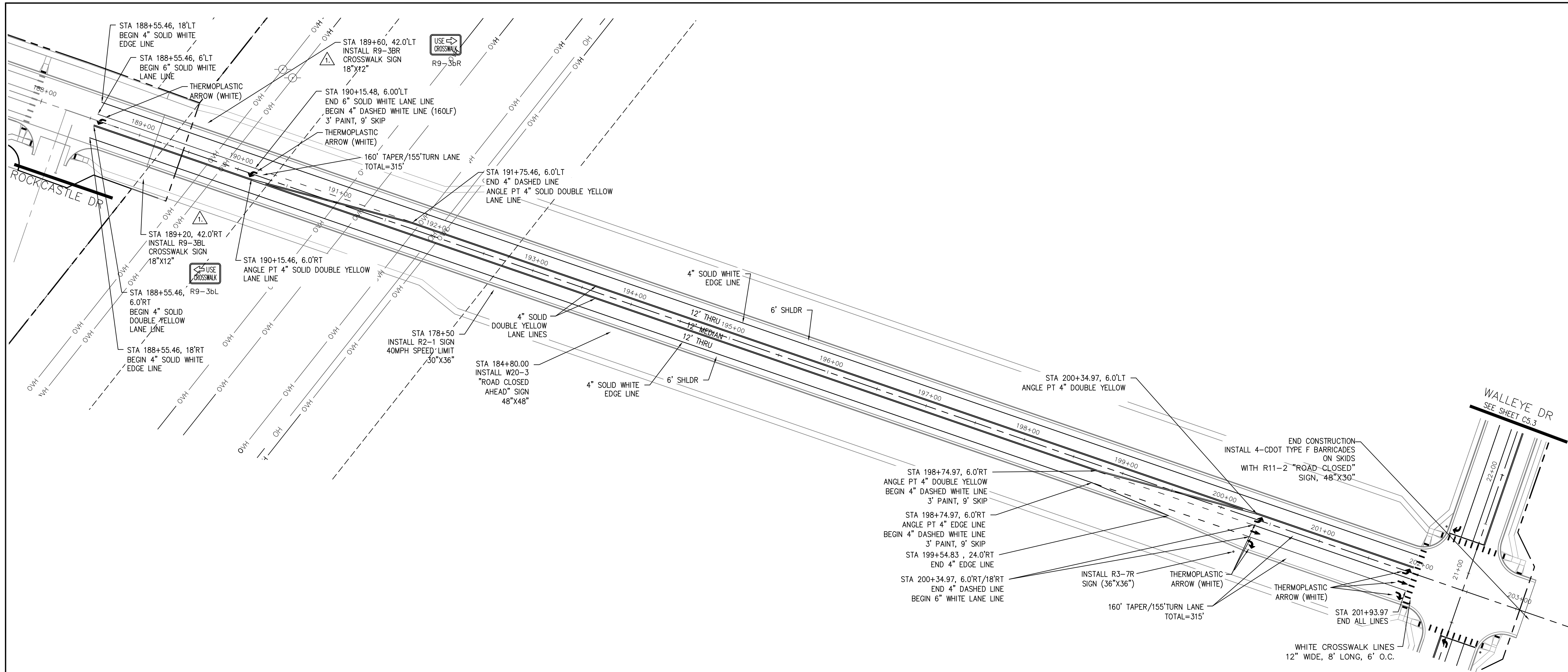
**LORSON BLVD  
SIGNING & STRIPING PLAN**



DATE: NOV 12, 2020  
PROJECT NO: 100.061  
SHEET NUMBER: C5.1  
TOTAL SHEETS: 58

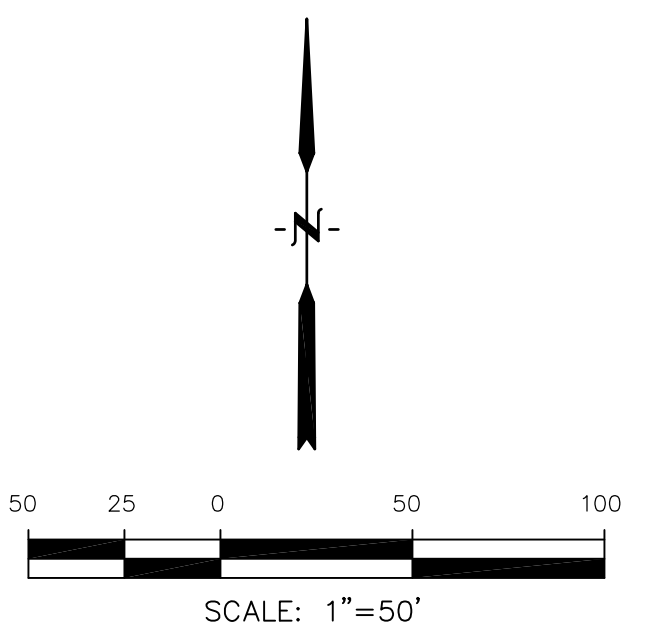


END CONSTRUCTION  
INSTALL 4-CDOT TYPE F BARRICADES  
ON SKIDS  
WITH R11-2 "ROAD CLOSED"  
SIGN, 48"x30"



- Signing and Striping Notes:**
- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  - Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
  - Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
  - Street name and regulatory stop signs shall be on the same post at intersections.
  - All removed signs shall be disposed of in a proper manner by the contractor.
  - All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 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"
  - All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  - All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
  - All signs shall be single sheet aluminum with 0.100" minimum thickness.
  - All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
  - All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
  - The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  - The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.

**AS-BUILT  
STREET-STM  
DEC 29, 2022**



**CORE  
ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNING WOODS, CO 80906  
PHONE: 719.576.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: 12/17/2020  
DESCRIPTION: MOVE PEDESTRIAN CROSSING SIGNS  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
FOR: LORSON, LLC  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

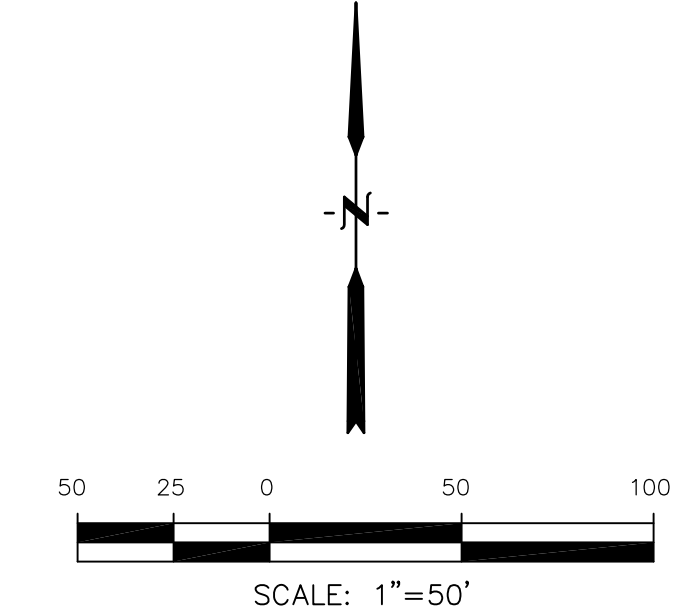
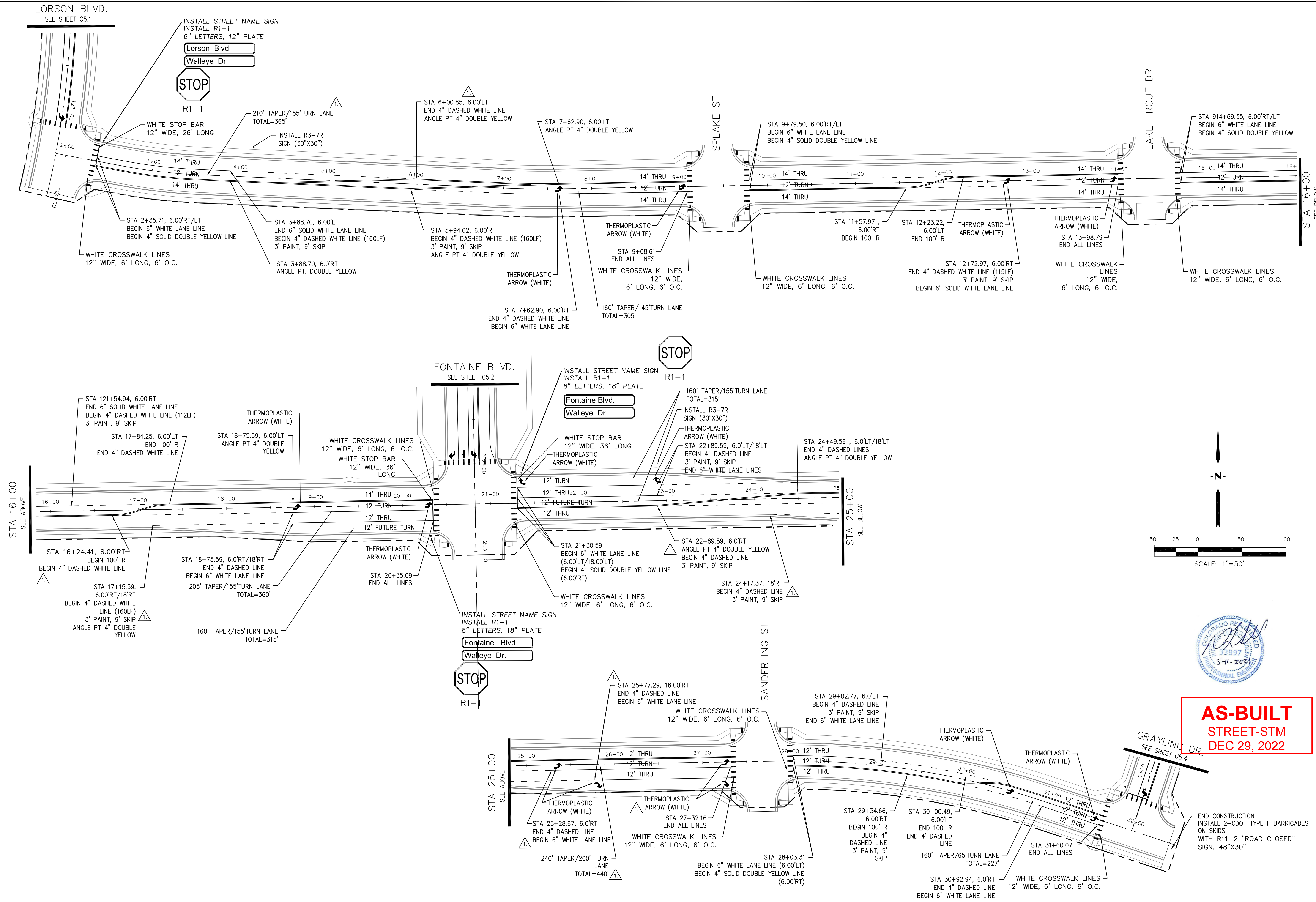
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**FONTAINE BLVD.  
SIGNING & STRIPING PLAN**



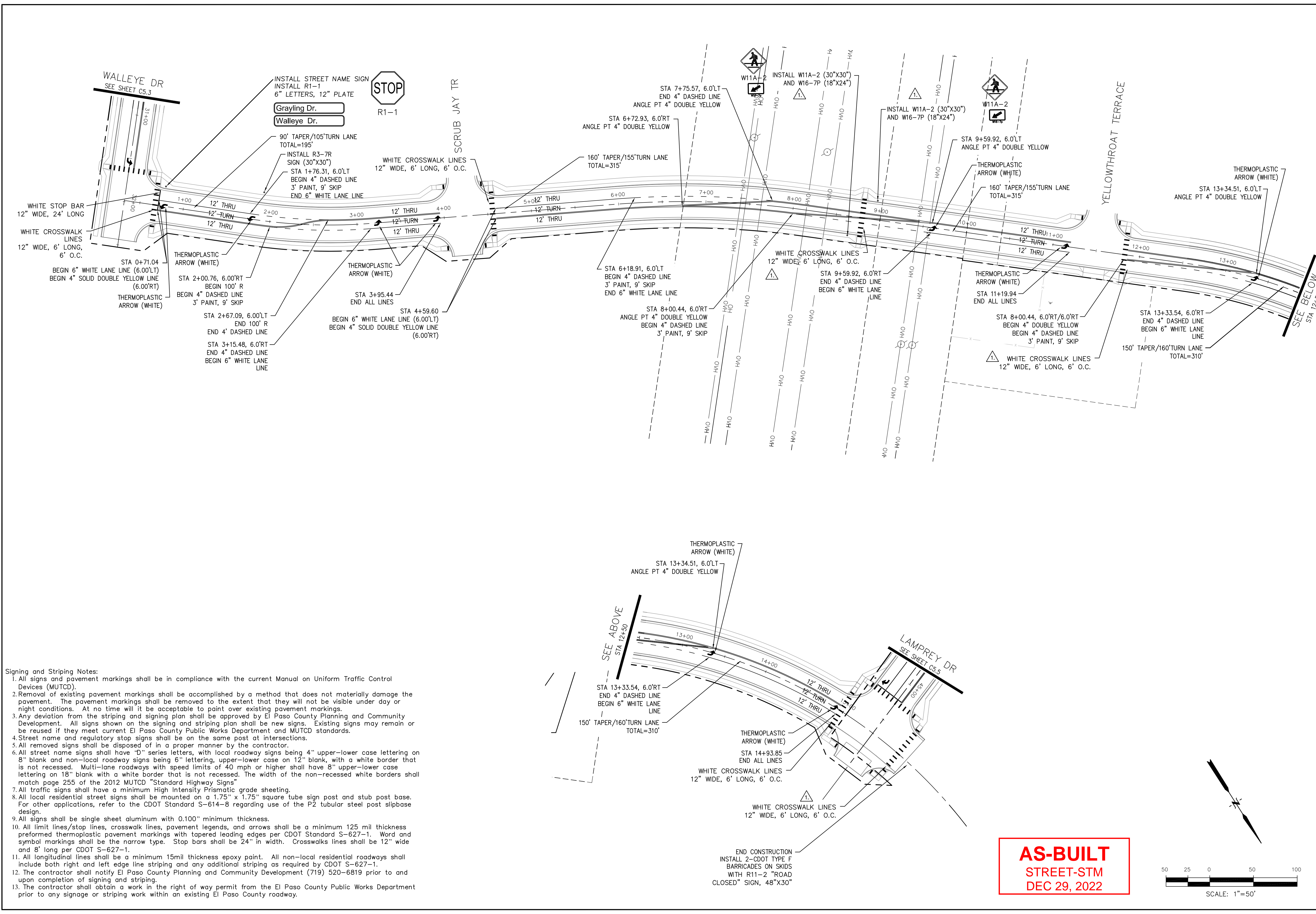
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C5.2  
TOTAL SHEETS: 58



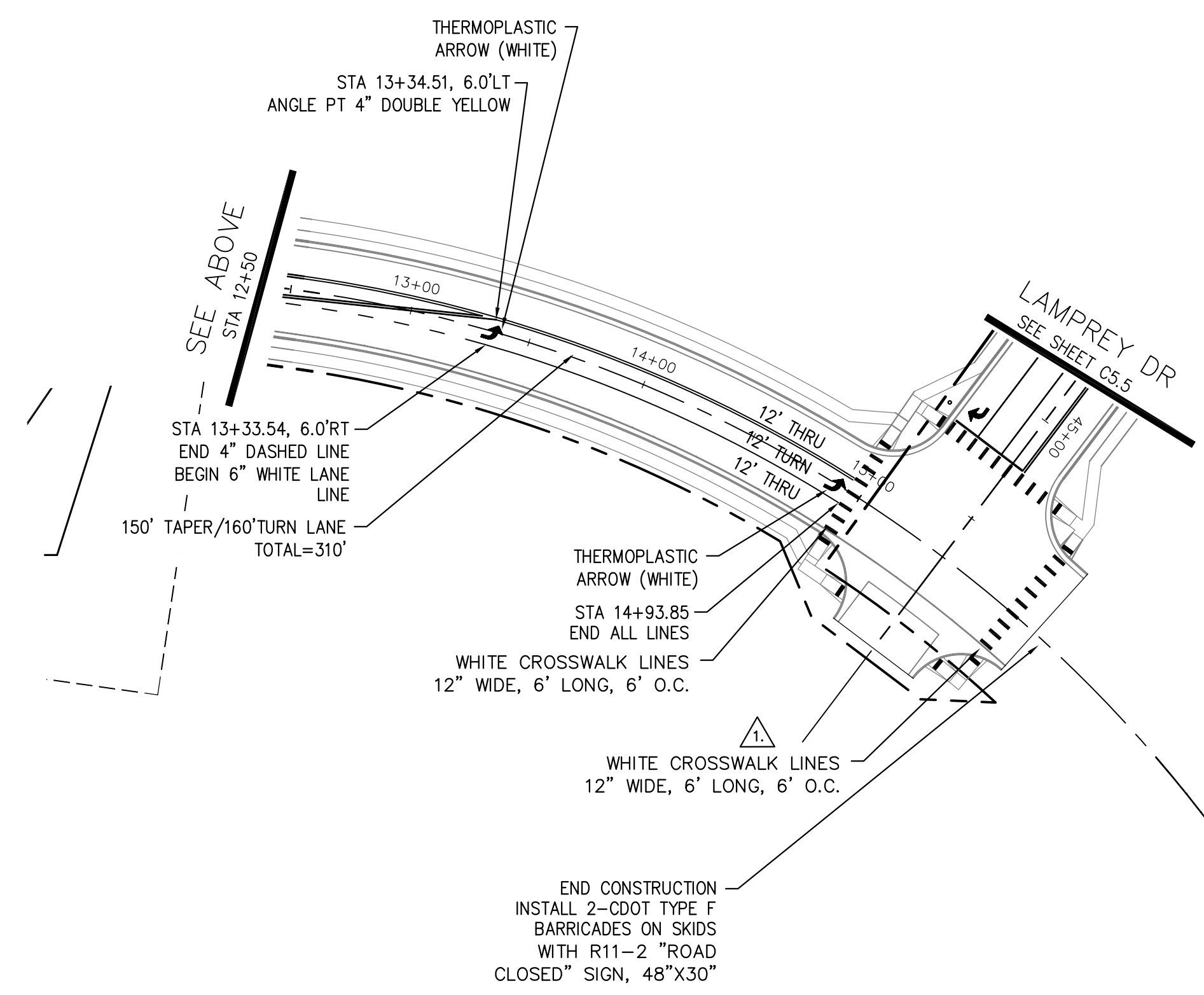


**AS-BUILT**  
STREET-STM  
DEC 29, 2022

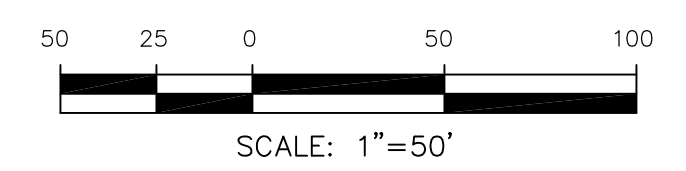
<b>CORE ENGINEERING GROUP</b>	
15004 1ST AVENUE S. DENVER, CO 80202 PHONE: 303.757.1100 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com	
NO. 1	DESCRIPTION
1	MODIFY STRIPING FOR TURN LANES
DATE	05/11/2021
PREPARED FOR:	<b>LORSON, LLC</b> 212 N. WAHSATCH AVE., SUITE 301 COLORADO SPRINGS, COLORADO 80903 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com
PROJECT:	<b>THE HILLS COLLECTOR STREET CONSTRUCTION</b> FONTAINE BLVD. - GRAYLING DR LORSON BLVD. - WALLEYE DR. - LAMPREY DR COLORADO SPRINGS, COLORADO
DRAWN:	RLS
DESIGNED:	RLS
CHECKED:	RLS
<b>WALLEYE DR SIGNING &amp; STRIPING PLAN</b>	
DATE:	NOV 12, 2020
PROJECT NO.	100.061
SHEET NUMBER	C5.3
TOTAL SHEETS:	58



- Signing and Striping Notes:**
- All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
  - Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement. The pavement markings shall be removed to the extent that they will not be visible under day or night conditions. At no time will it be acceptable to paint over existing pavement markings.
  - Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development. All signs shown on the signing and striping plan shall be new signs. Existing signs may remain or be reused if they meet current El Paso County Public Works Department and MUTCD standards.
  - Street name and regulatory stop signs shall be on the same post at intersections.
  - All removed signs shall be disposed of in a proper manner by the contractor.
  - All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 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".
  - All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
  - All local residential street signs shall be mounted on a 1.75" x 1.75" square tube sign post and stub post base. For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post slipbase design.
  - All signs shall be single sheet aluminum with 0.100" minimum thickness.
  - All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard S-627-1. Word and symbol markings shall be the narrow type. Stop bars shall be 24" in width. Crosswalks lines shall be 12" wide and 8' long per CDOT S-627-1.
  - All longitudinal lines shall be a minimum 15mil thickness epoxy paint. All non-local residential roadways shall include both right and left edge line striping and any additional striping as required by CDOT S-627-1.
  - The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.
  - The contractor shall obtain a work in the right of way permit from the El Paso County Public Works Department prior to any signage or striping work within an existing El Paso County roadway.



**AS-BUILT**  
**STREET-STM**  
**DEC 29, 2022**



**CORE**  
**ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BLDG 790 STB 1100  
 P.O. BOX 790  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

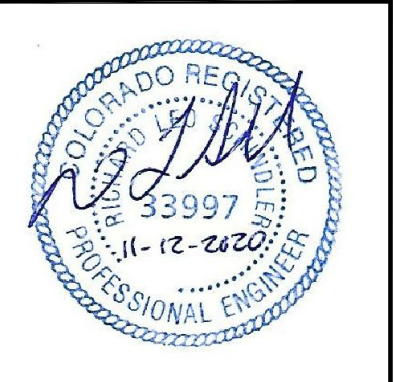
DATE: 12/17/2020  
 DESCRIPTION: ADD PEDESTRIAN RAMPS/CROSSINGS  
 NO. 1  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

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

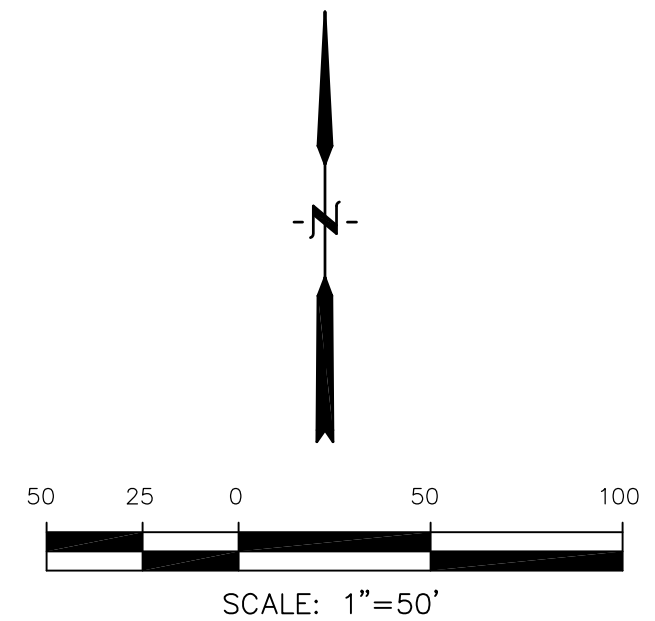
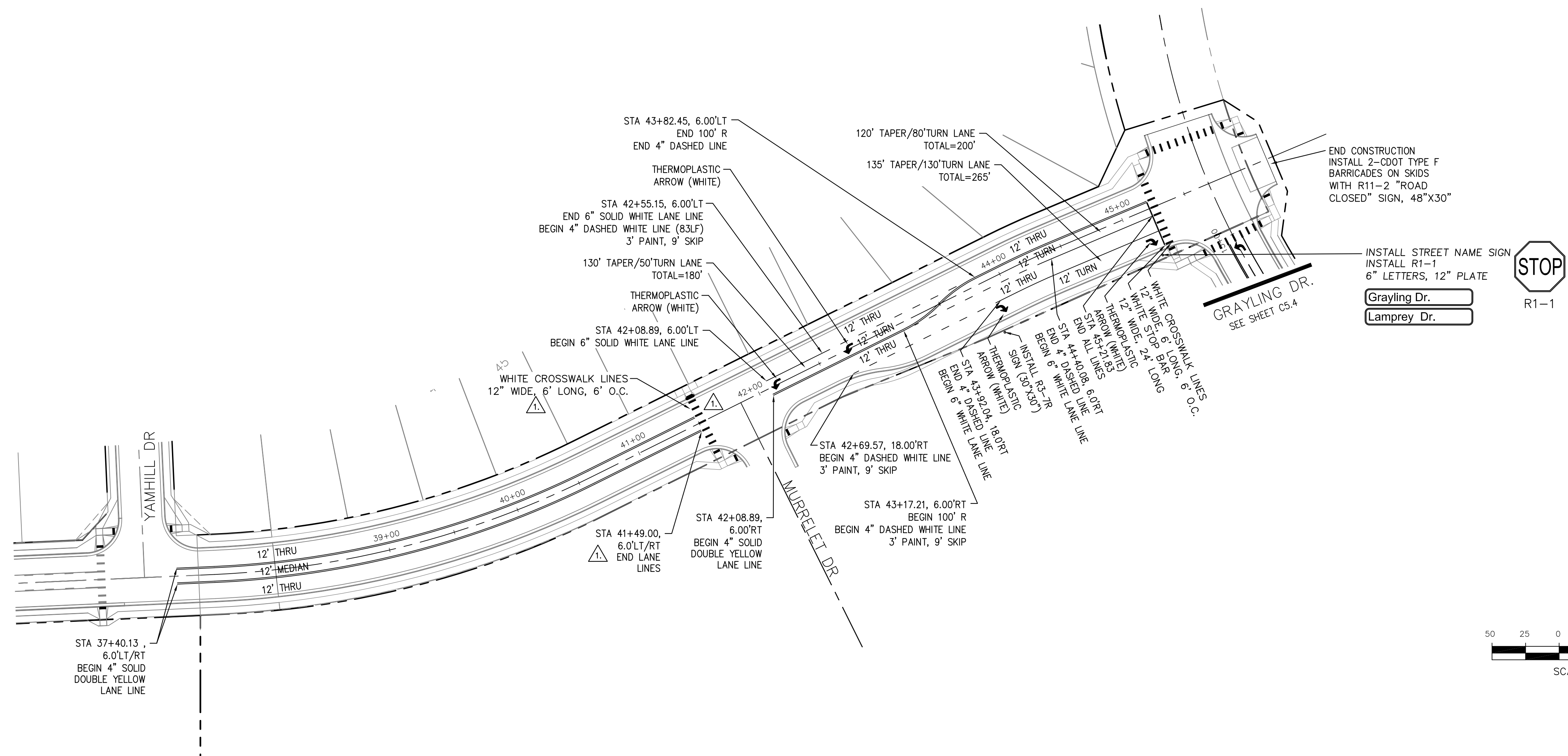
PROJECT:  
**THE HILLS COLLECTOR**  
**STREET CONSTRUCTION**  
 FONTAINE BLVD - GRAYLING DR  
 LORSON BLVD - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO

NO. 1  
 DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**GRAYLING DRIVE**  
**SIGNING & STRIPING PLAN**



DATE: NOV 12, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C5.4  
 TOTAL SHEETS: 58



END CONSTRUCTION  
INSTALL 2-CDOT TYPE F  
BARRICADES ON SKIDS  
WITH R11-2 "ROAD  
CLOSED" SIGN, 48"X30"

INSTALL STREET NAME SIGN  
INSTALL R1-1  
6" LETTERS, 12" PLATE

Grayling Dr.  
Lamprey Dr.

STOP  
R1-1

**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE**  
**ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: 12/17/2020

DESCRIPTION: ADD PEDESTRIAN RAMPS/CROSSINGS

NO. 1

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

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

LAMPREY DR  
SIGNING & STRIPING PLAN



DATE: NOV 12, 2020

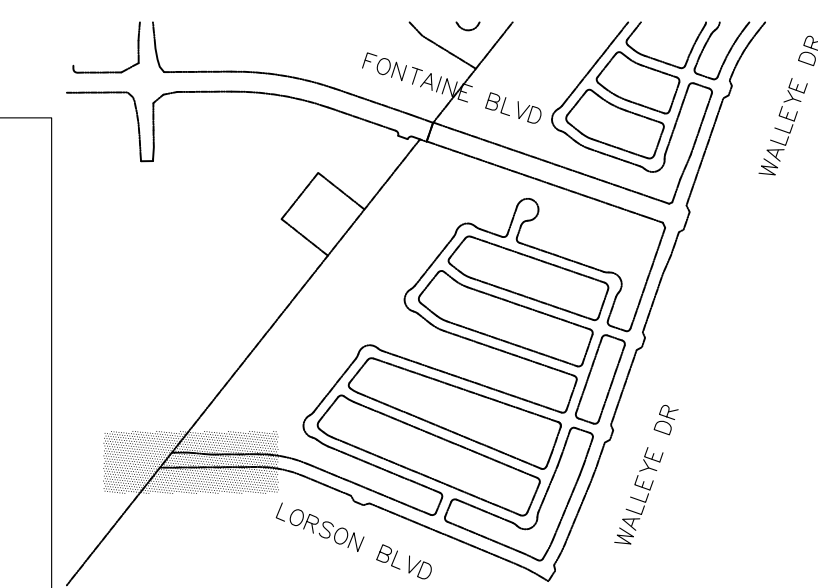
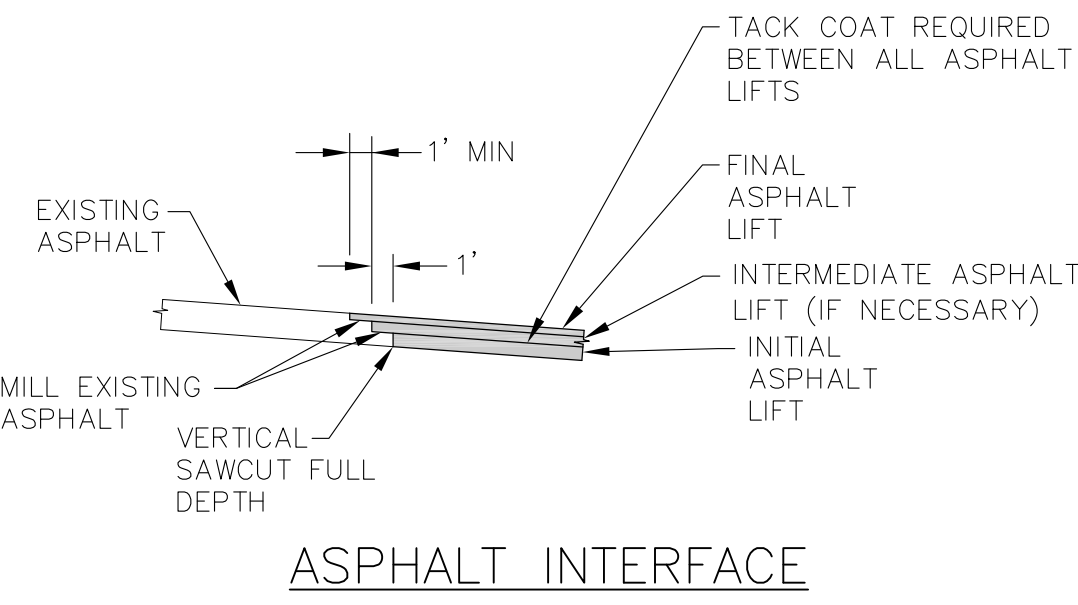
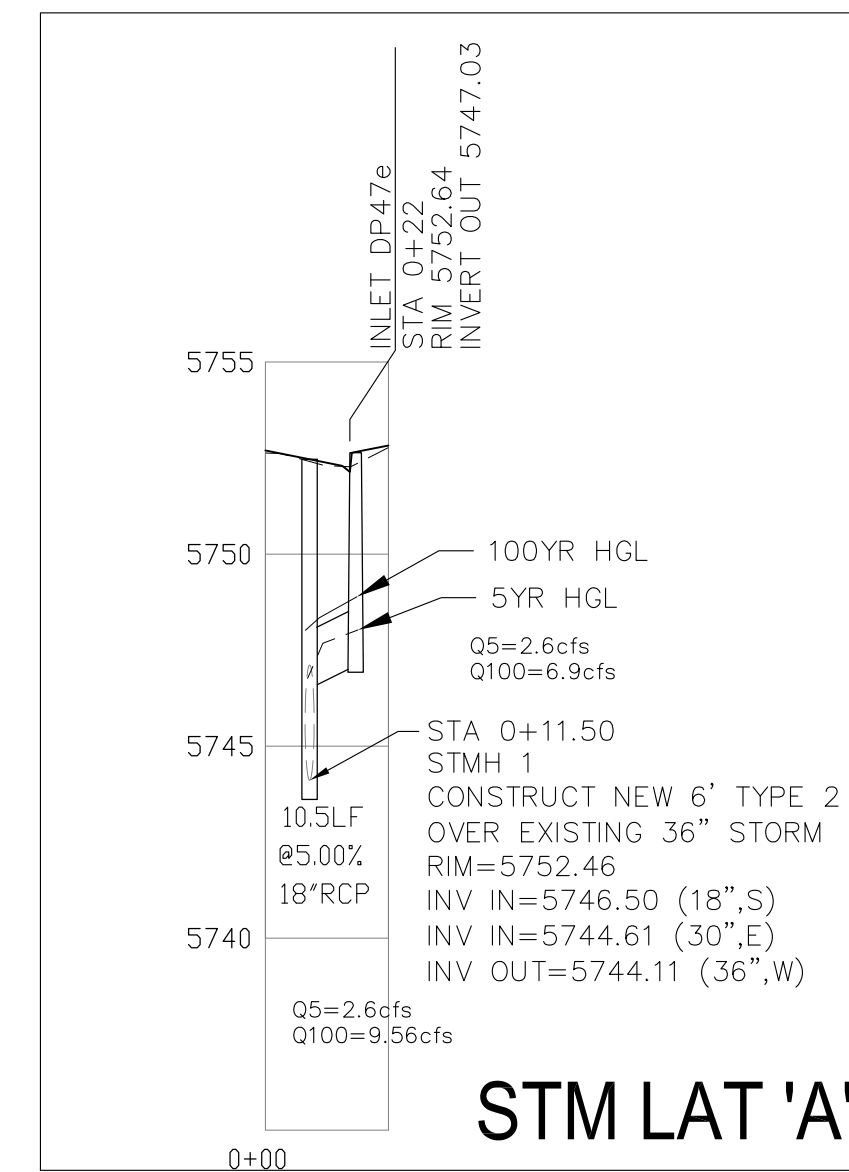
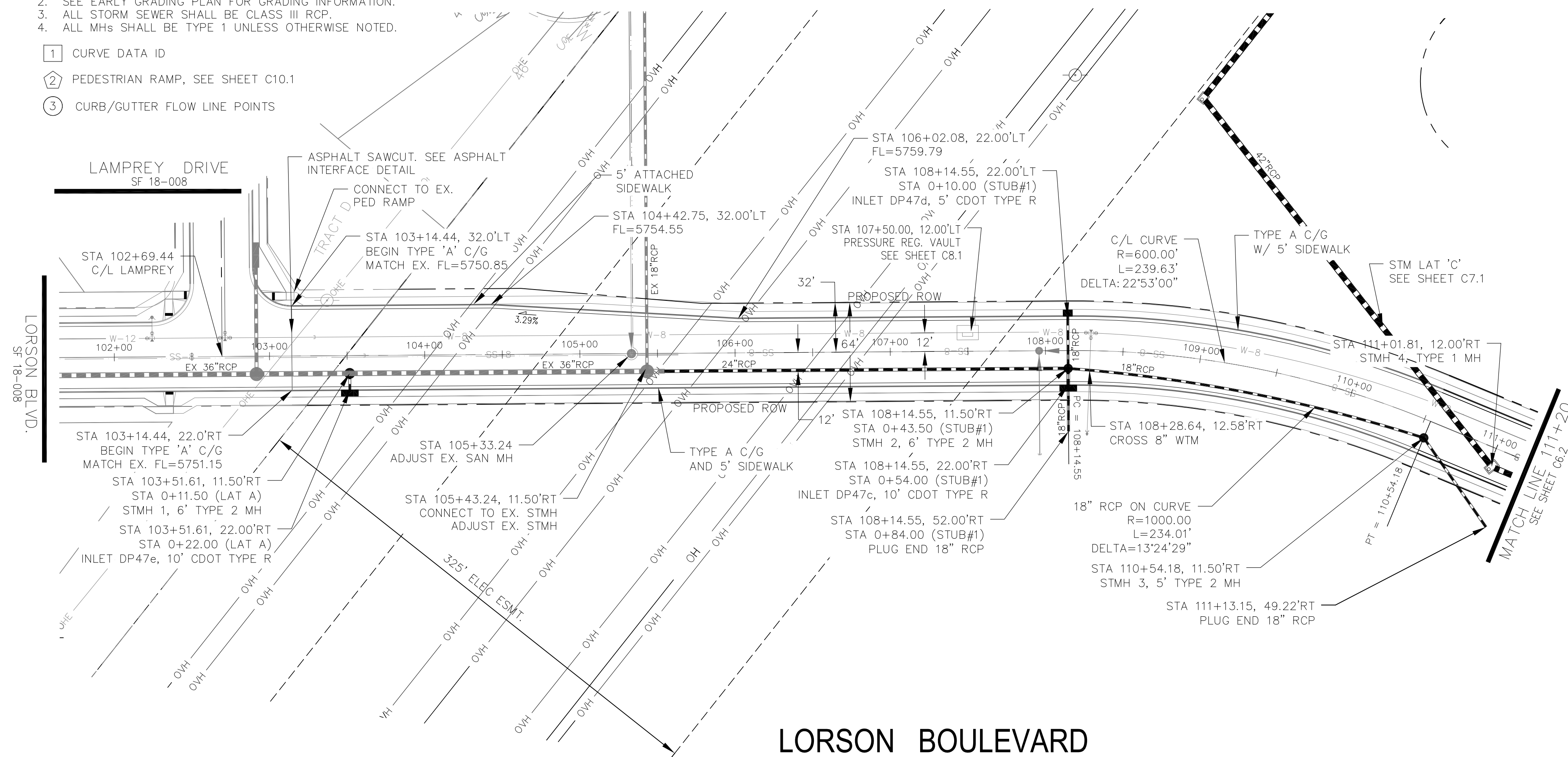
PROJECT NO. 100.061

SHEET NUMBER C5.5

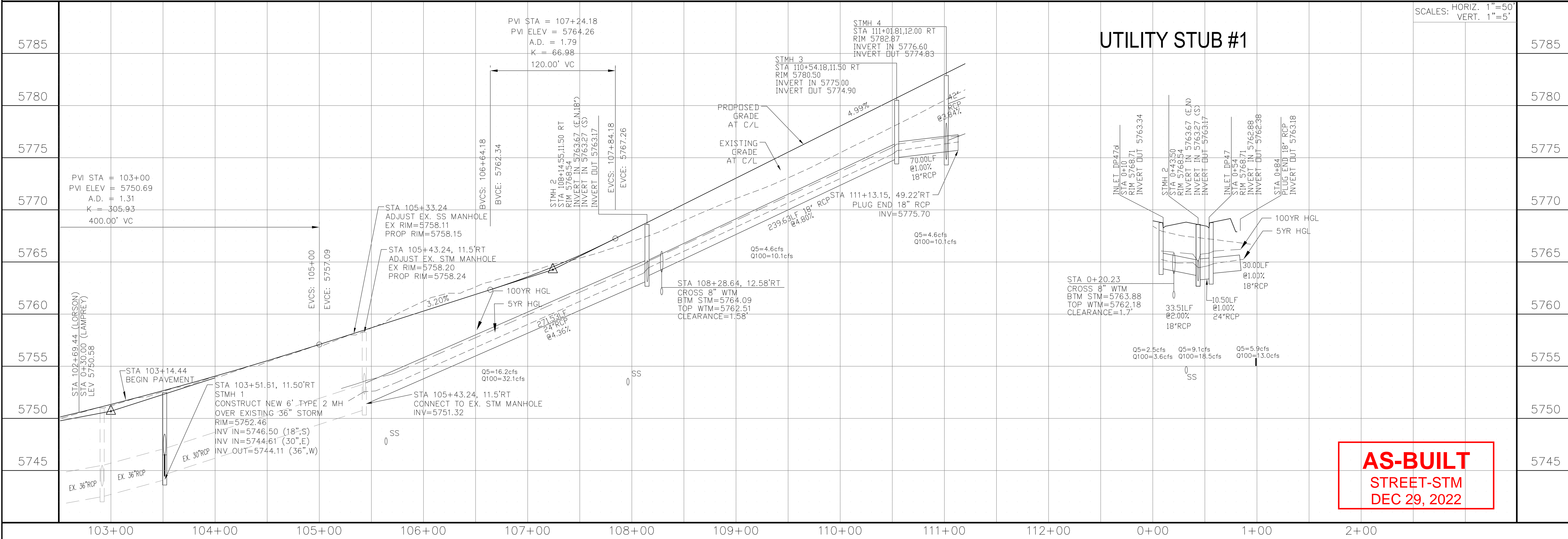
TOTAL SHEETS: 58

- 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



LORSON BOULEVARD



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE**  
ENGINEERING GROUP

15004 151<sup>ST</sup> AVENUE, SUITE 301  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021

DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES

NO. 1

PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
LORSON, LLC  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
LORSON BLVD - WALLEVE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO  
CONTACT: JEFF MARK

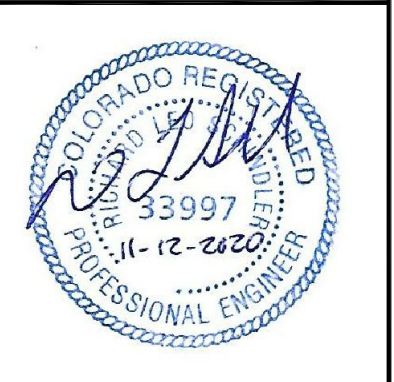
PREPARED FOR: LORSON, LLC

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

STREET & STORM SEWER PLAN/PROFILE

LORSON BOULEVARD

STA 103+00 TO STA 111+20



DATE: NOV 12, 2020

PROJECT NO. 100.061

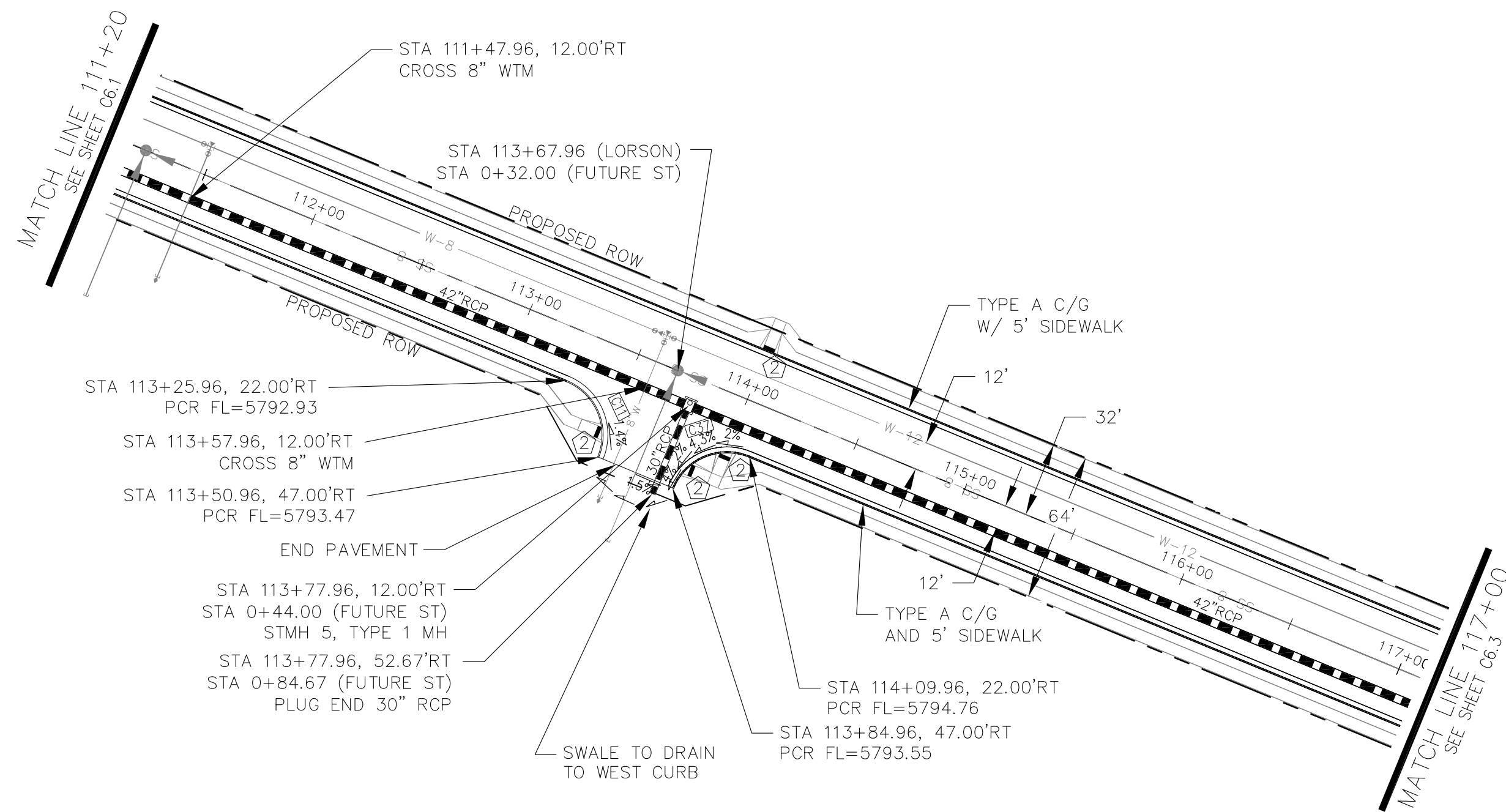
SHEET NUMBER C6.1

TOTAL SHEETS: 58

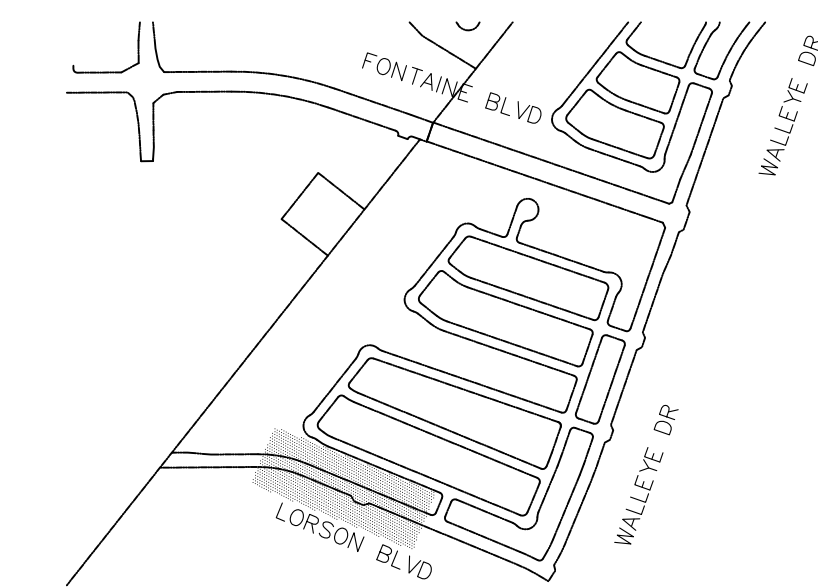
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

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

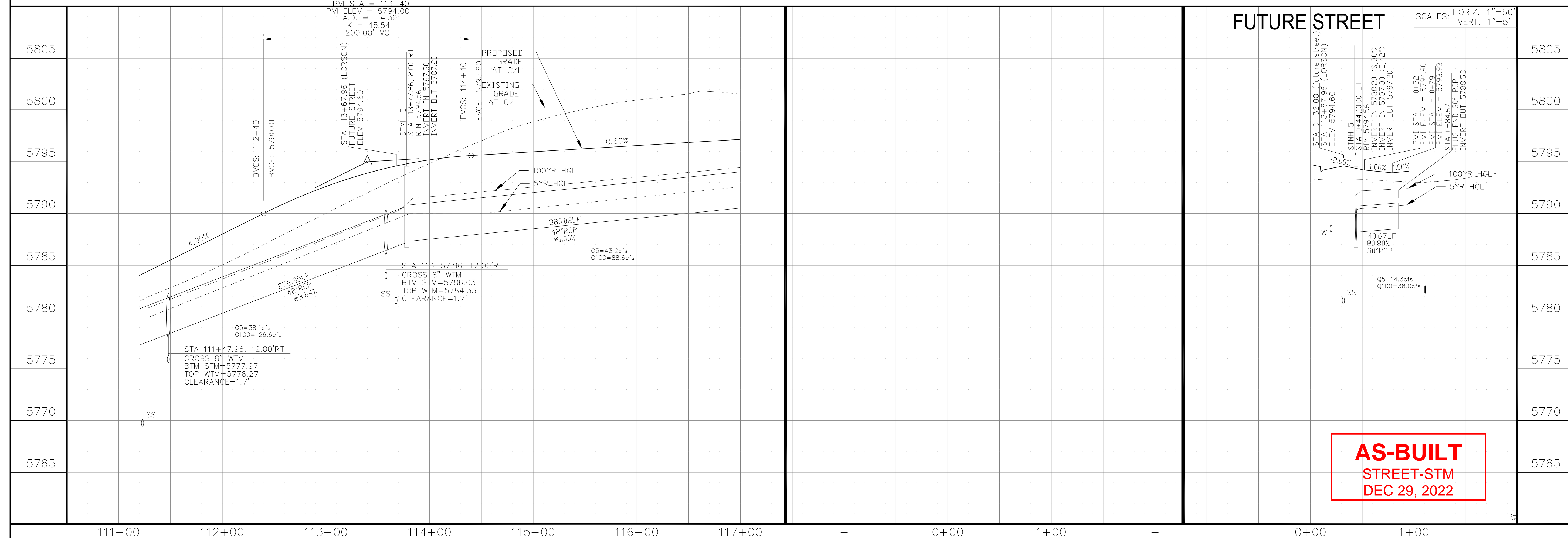
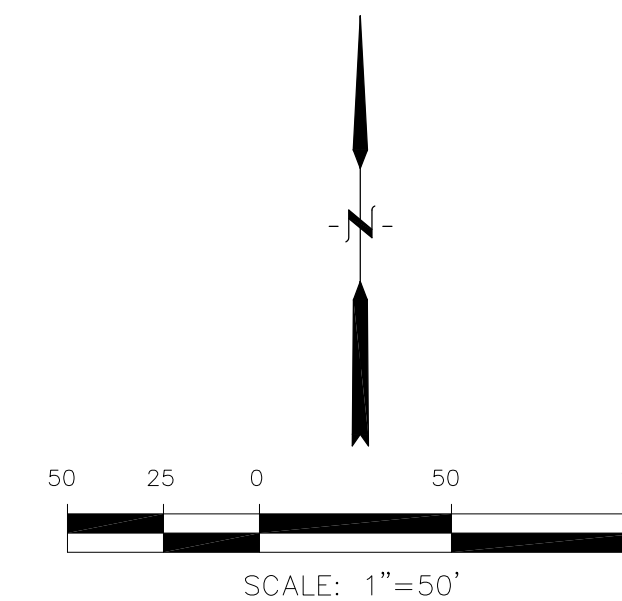
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C11	39.27'	25.00	90°00'00"
C37	39.27'	25.00	90°00'00"



LORSON BOULEVARD



KEY MAP



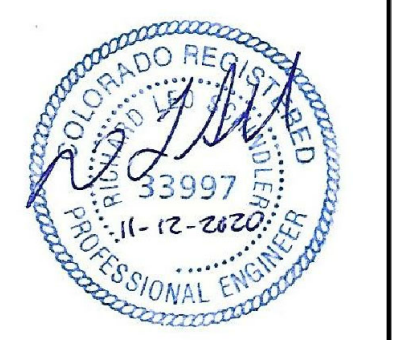
**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE**  
ENGINEERING GROUP  
15004 151<sup>ST</sup> AVENUE S.  
DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
PROJECT: THE HILLS COLLECTOR LORSON, LLC  
STREET CONSTRUCTION  
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

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

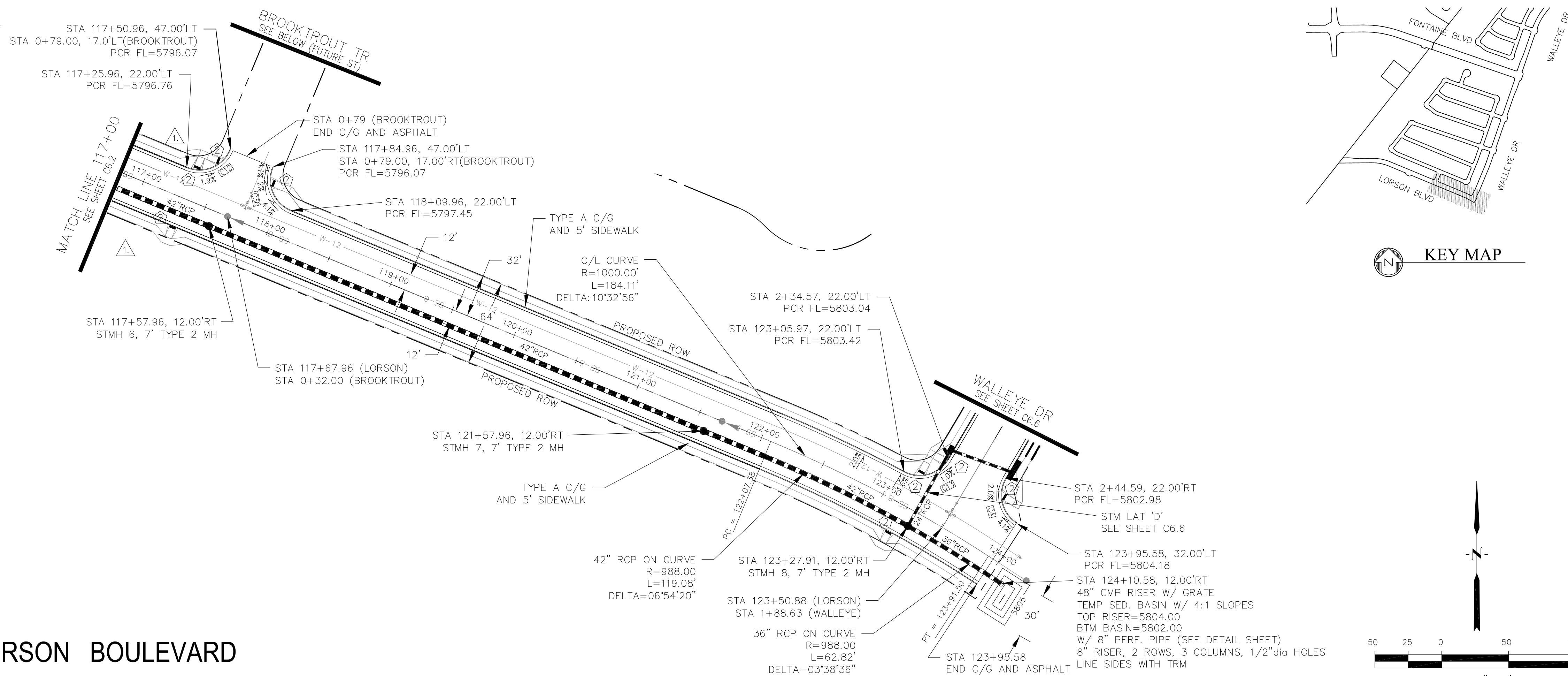


DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C6.2  
TOTAL SHEETS: 58

- 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.

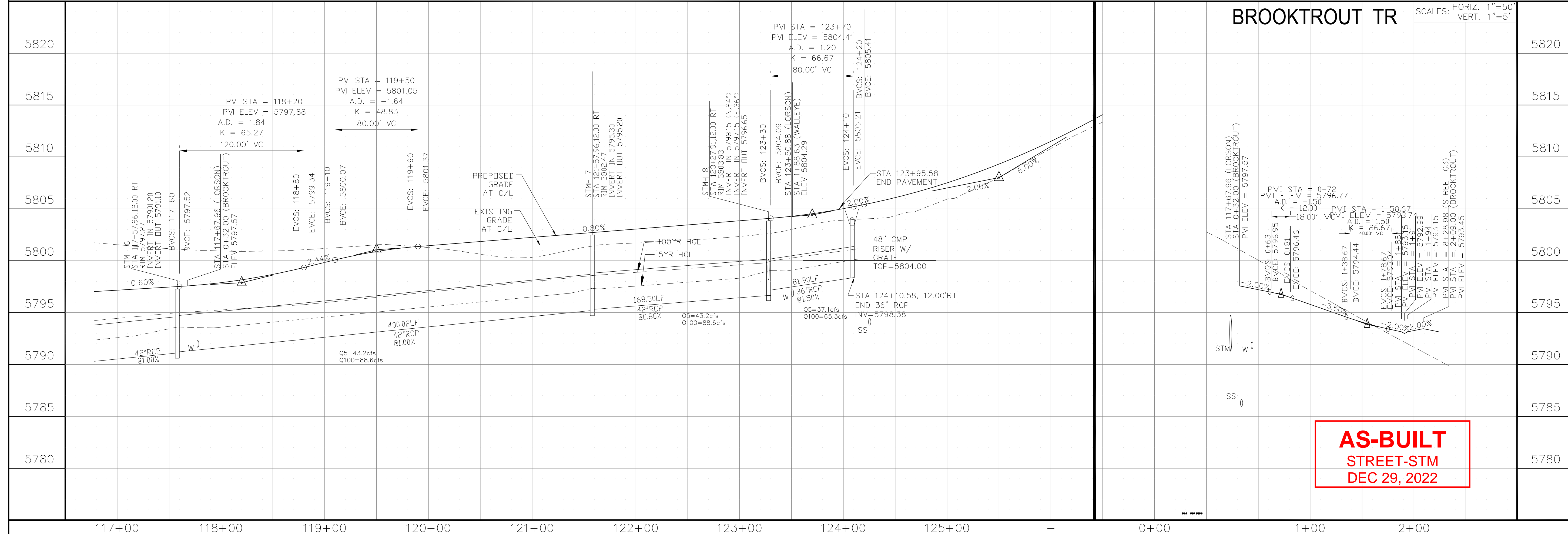
- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
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"



LORSON BOULEVARD

BROOKTROUT TR



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE**  
ENGINEERING GROUP  
15004 151<sup>ST</sup> AVENUE, SUITE 301  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: 12/17/2020  
DESCRIPTION: 1. ADD PEDESTRIAN RAMPS/CROSSINGS  
2. RAISE SITE 1' EAST OF POWERLINES  
NO. 1. 2.  
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

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

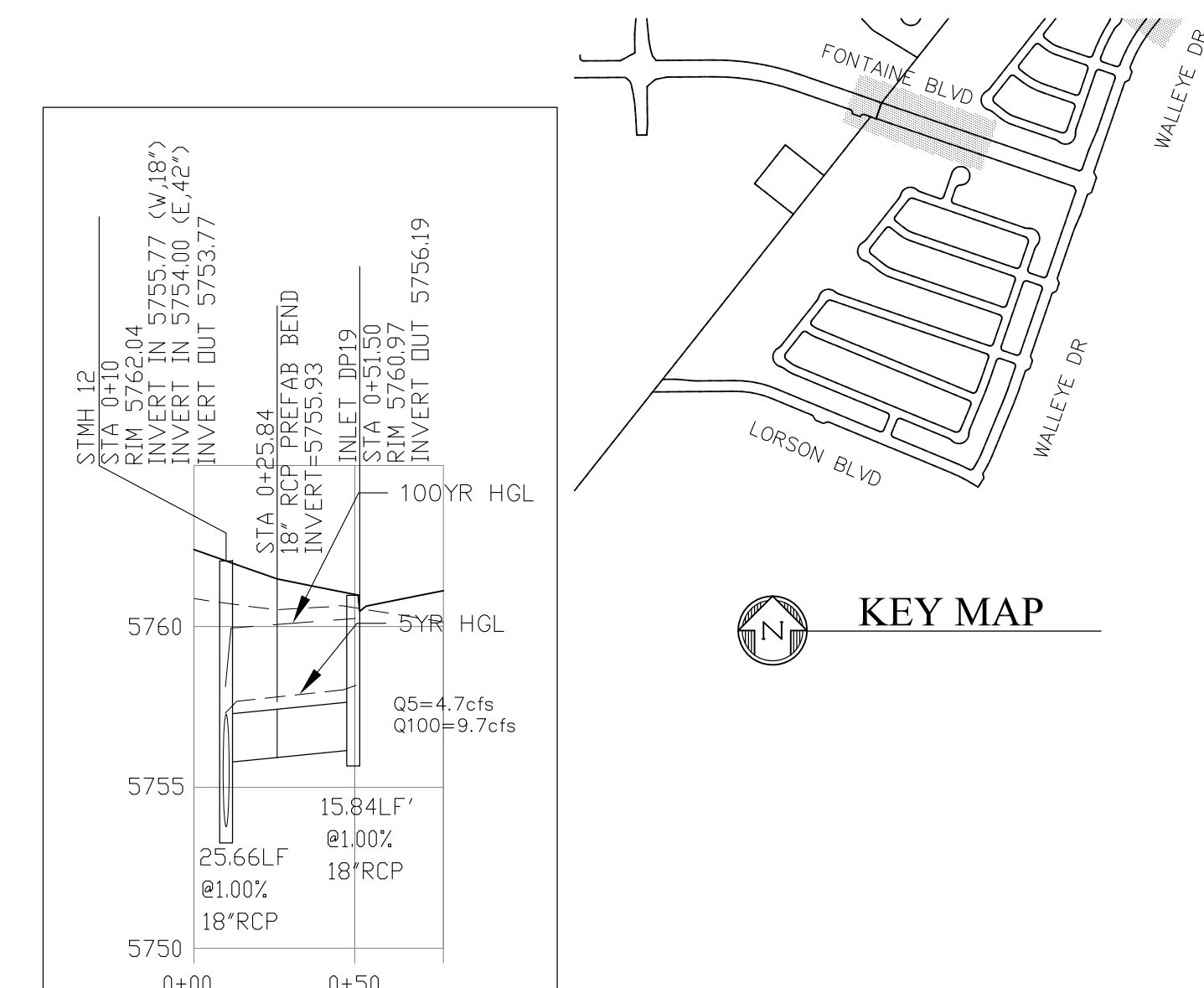
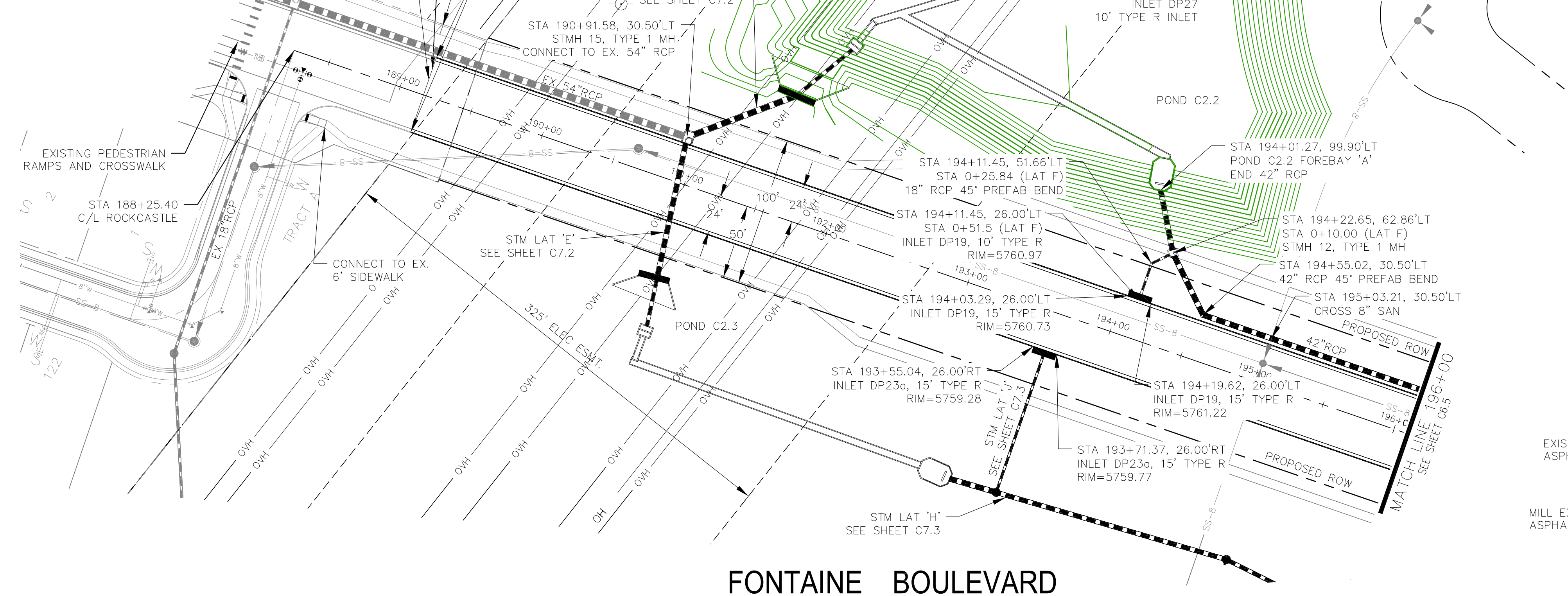


DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C6.3  
TOTAL SHEETS: 58

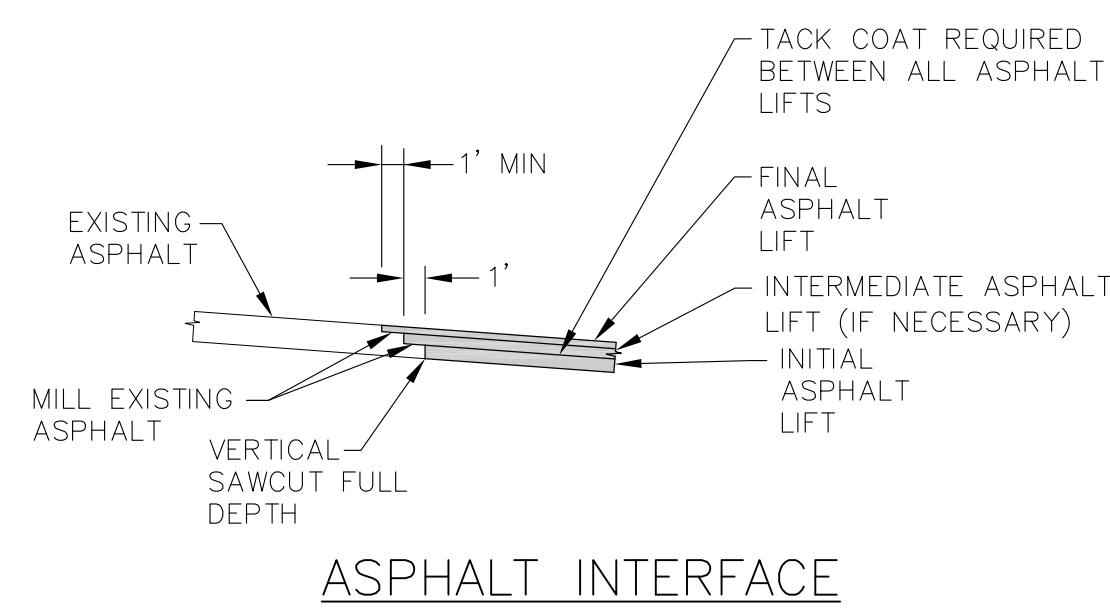
- NOTES**
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

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

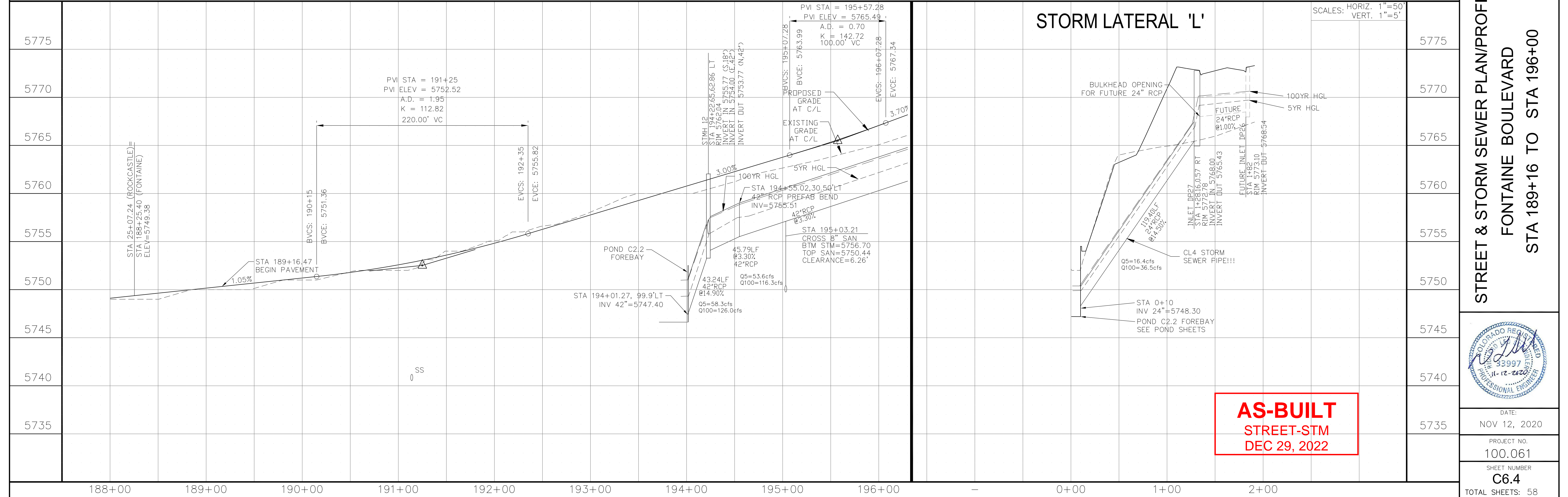
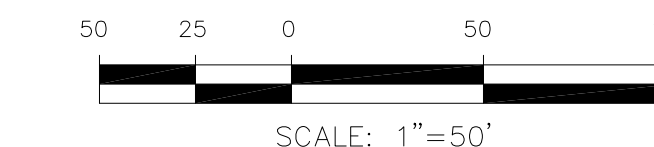
ASPHALT SAWCUT. SEE ASPHALT INTERFACE DETAIL



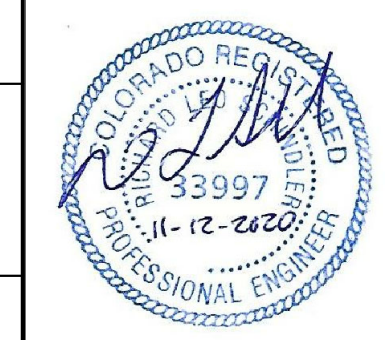
**STORM LATERAL 'F'**



**ASPHALT INTERFACE**



NO.	1.	RAISE SITE 1' EAST OF POWERLINES	DATE	JAN 12, 2021
	DESCRIPTION		PROJECT	THE HILLS COLLECTOR STREET CONSTRUCTION
DRAWN:		RLS	DESIGNED:	RLS
CHECKED:		RLS	DATE:	NOV 12, 2020
PROJECT:		THE HILLS COLLECTOR STREET CONSTRUCTION	PROJECT NO.:	100.061
PREPARED FOR:		LORSON, LLC	SHEET NUMBER:	C6.4
PROJECT:		212 N. WAHSATCH AVE, SUITE 301 COLORADO SPRINGS, COLORADO 80903 LORSON BLVD - WALLEYE DR - LAMPREY DR COLORADO SPRINGS, COLORADO	TOTAL SHEETS:	58
CONTACT:		RICHARD L. SCHINDLER, P.E. EMAIL: Rich@eg1.com		
CONTACT:		JEFF MARK		

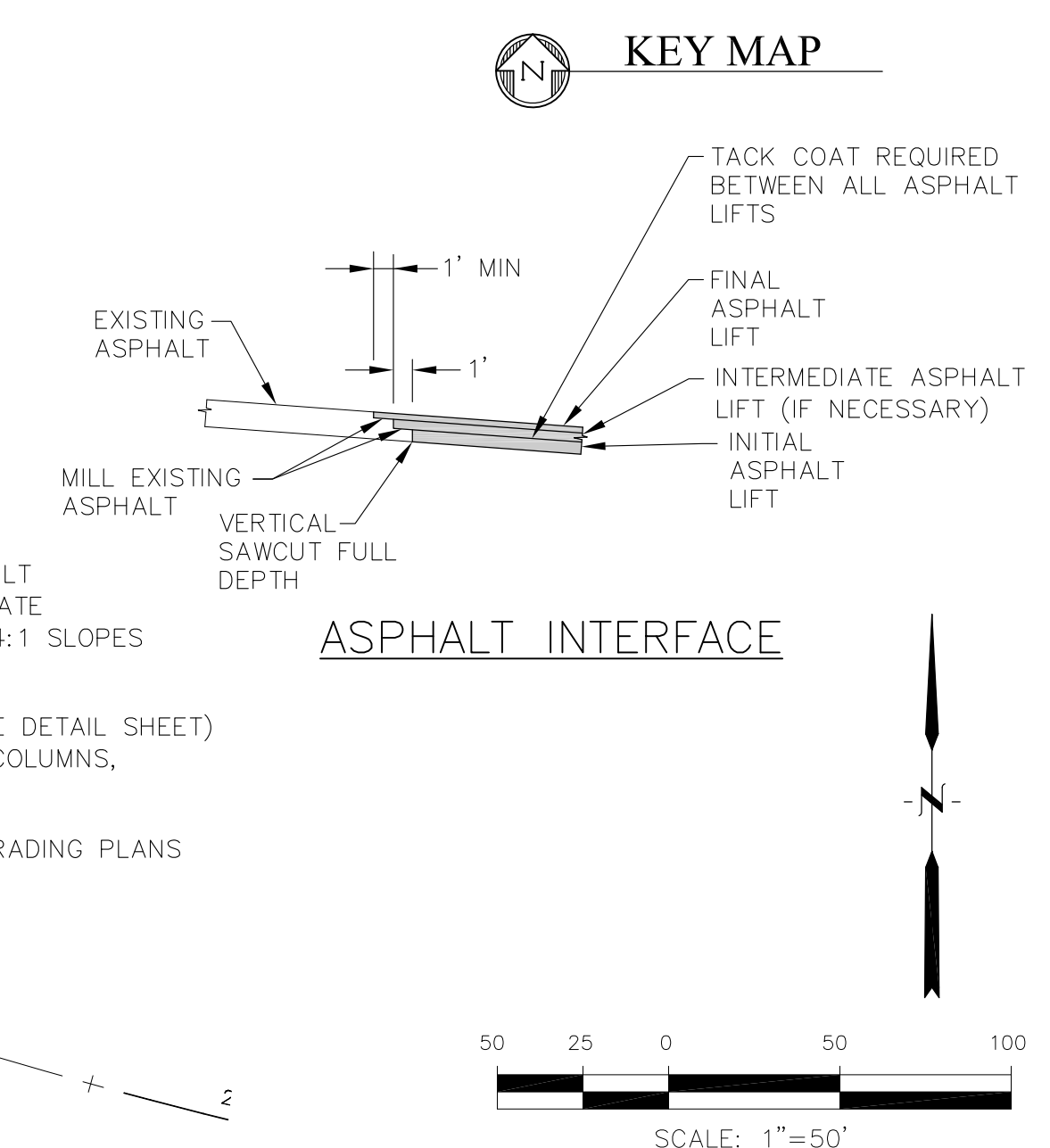
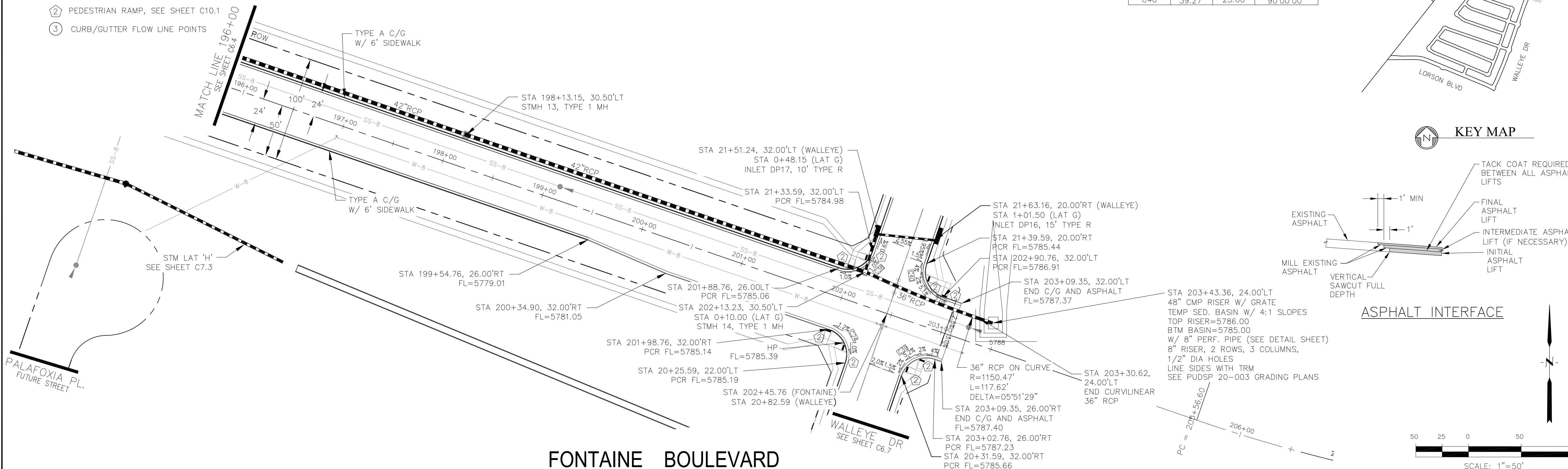
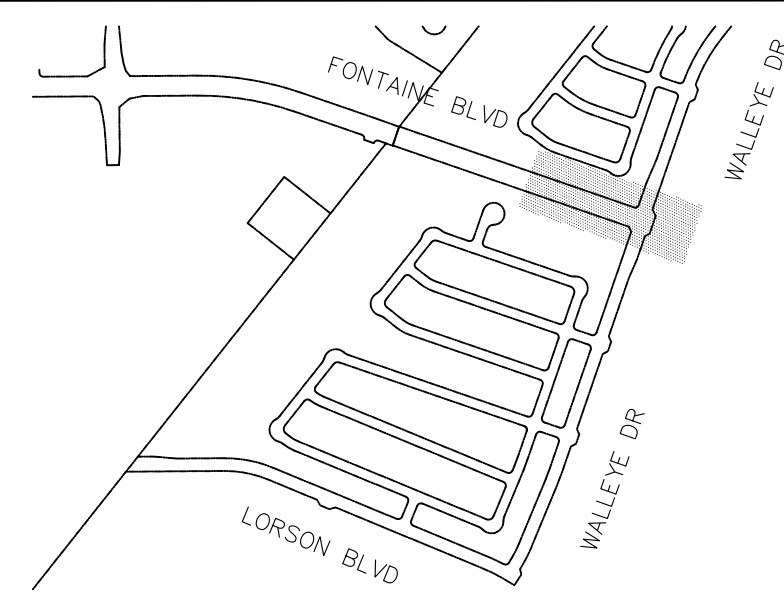


**AS-BUILT**  
STREET-STM  
DEC 29, 2022

- 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.

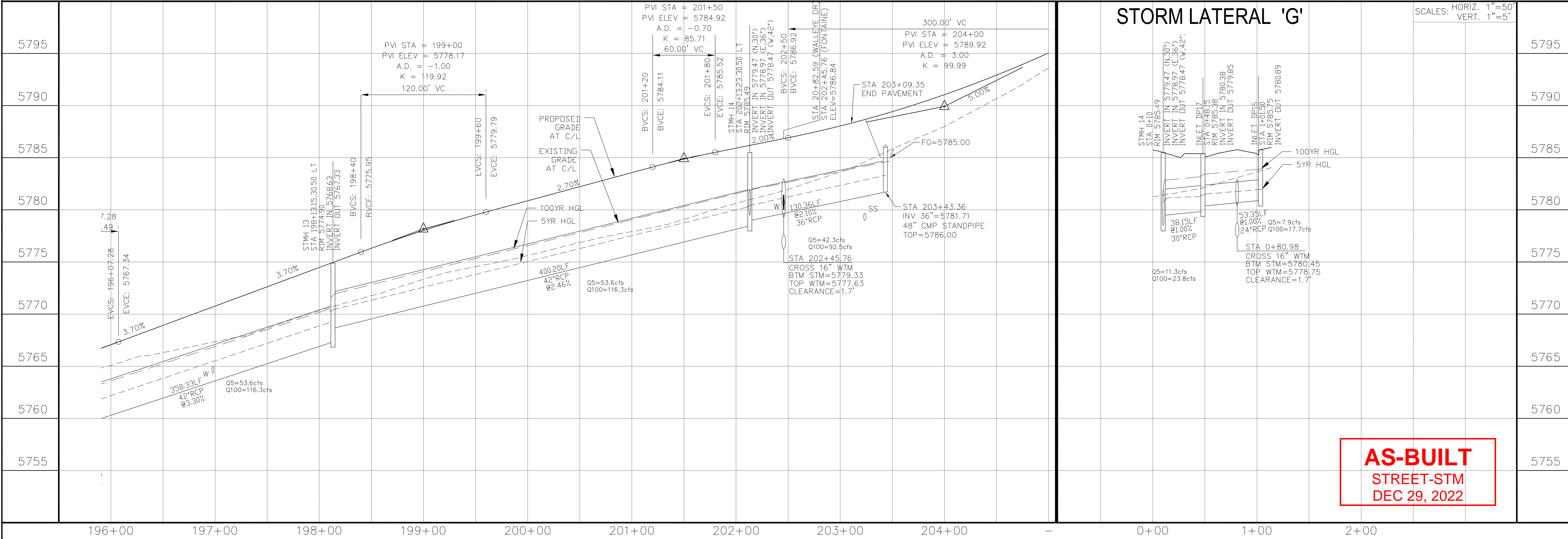
- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C24	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"



FONTAINE BOULEVARD

STORM LATERAL 'G'



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
PREPARED FOR: 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

STREET & STORM SEWER PLAN/PROFILE  
FONTAINE BOULEVARD  
STA 196+00 TO STA 203+25



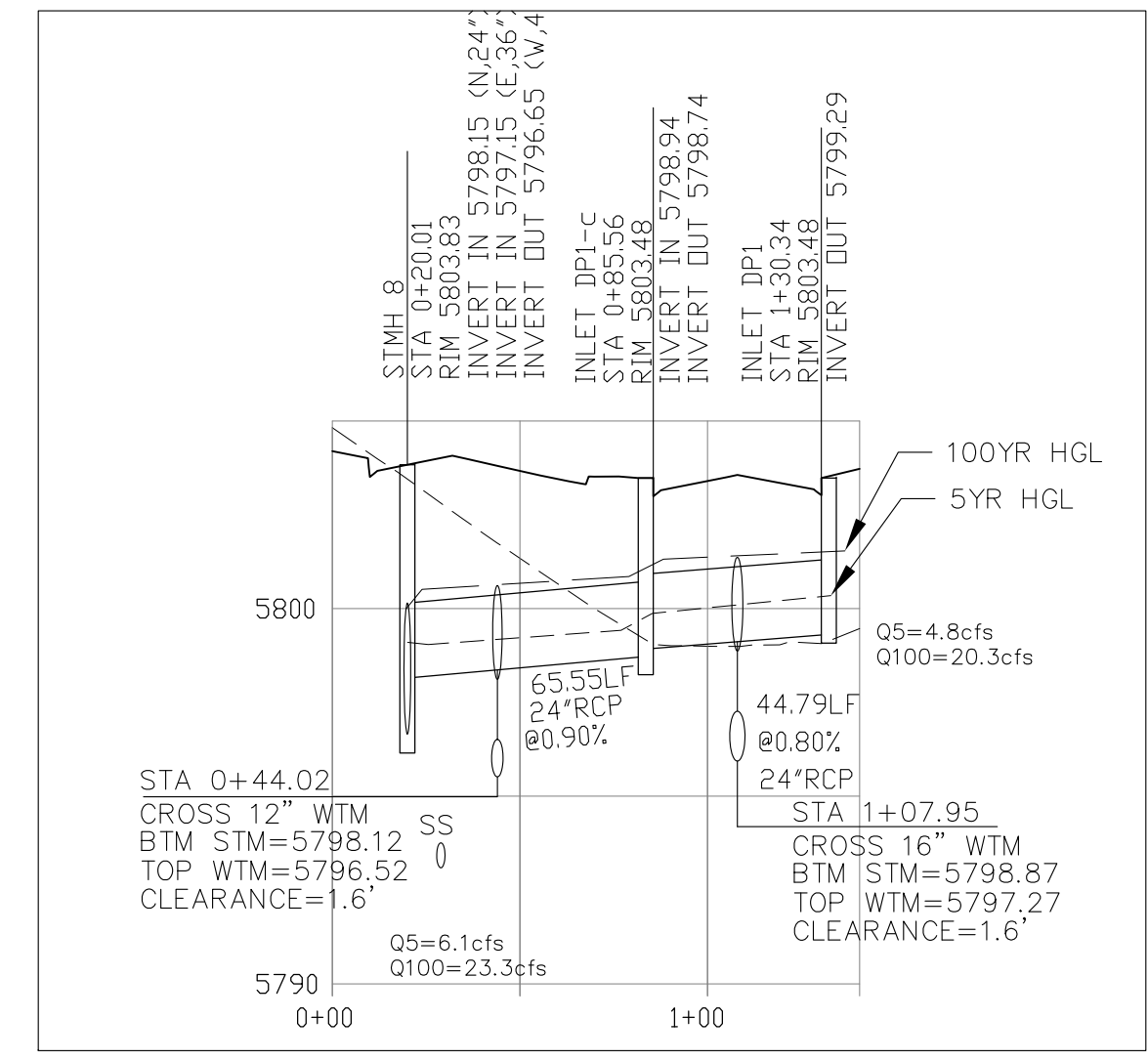
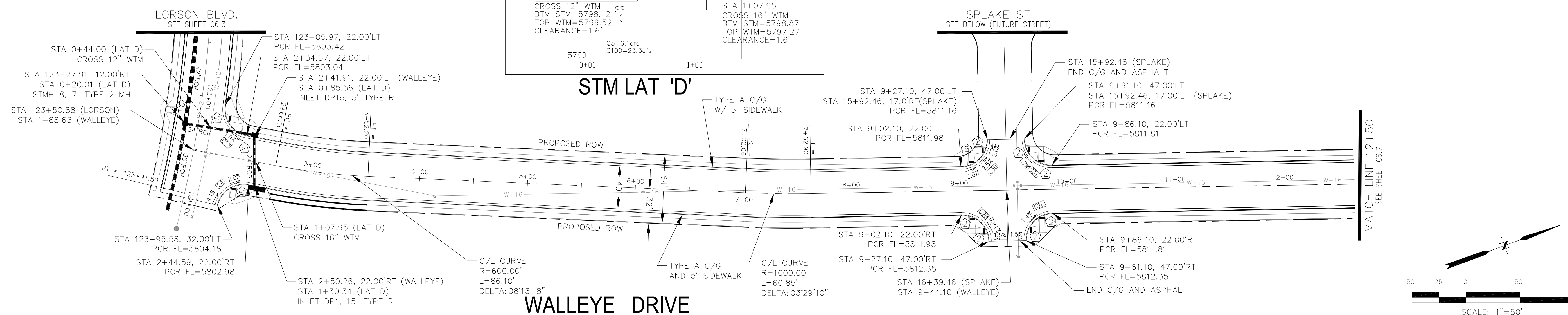
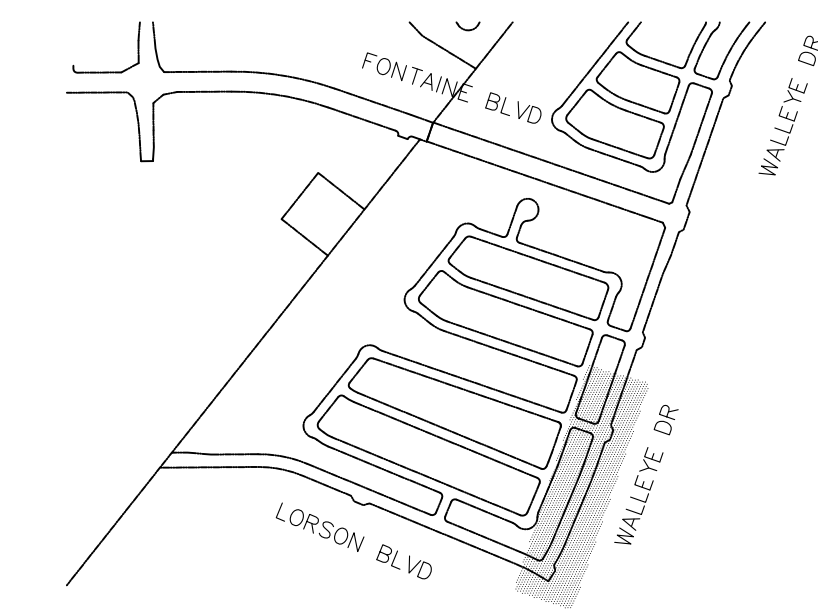
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C6.5  
TOTAL SHEETS: 58



- 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

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"



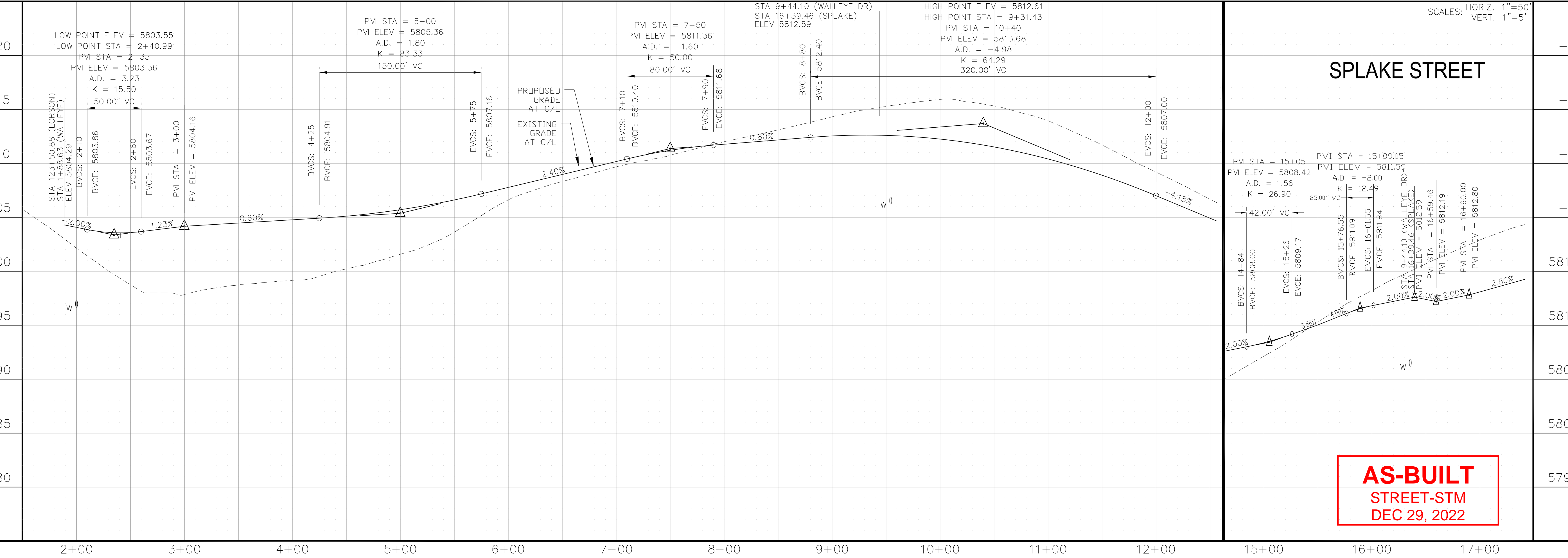
**CORE ENGINEERING GROUP**  
 15004 151<sup>st</sup> AVENUE, SUITE 301  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 NO. 1  
 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

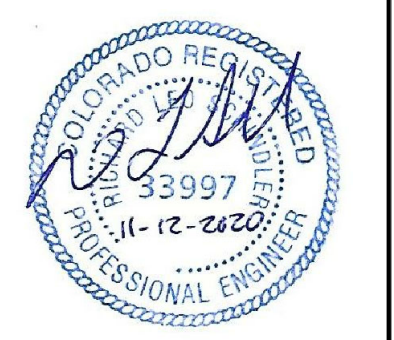
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

SCALE: 1"=50'

**STREET & STORM SEWER PLAN/PROFILE**  
**WALLEYE DR & SPLAKE ST**  
**STA 2+00 TO STA 12+50**



**AS-BUILT**  
**STREET-STM**  
**DEC 29, 2022**

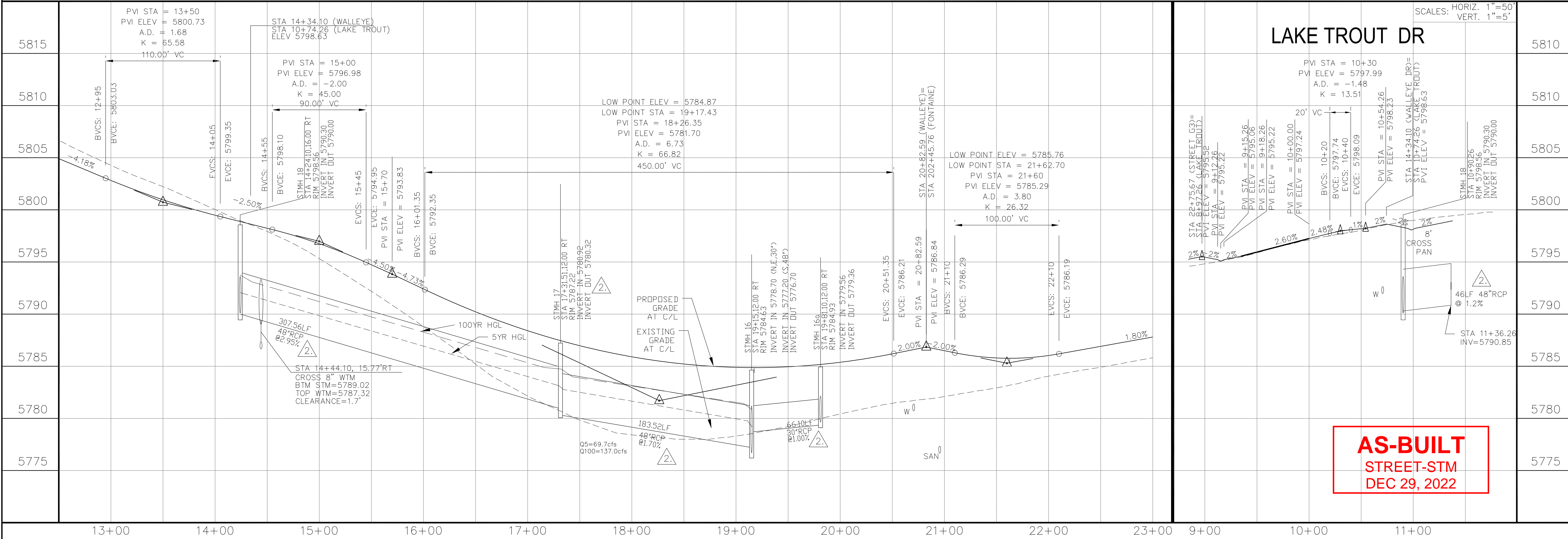
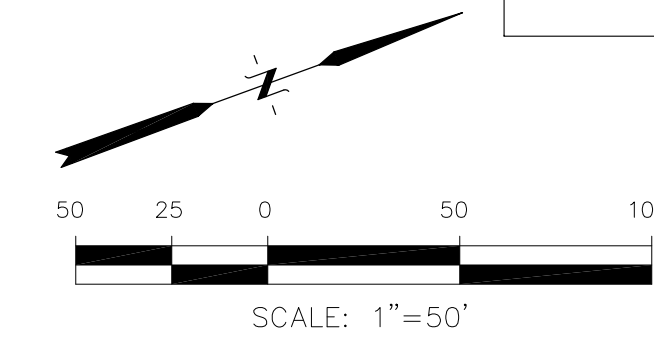
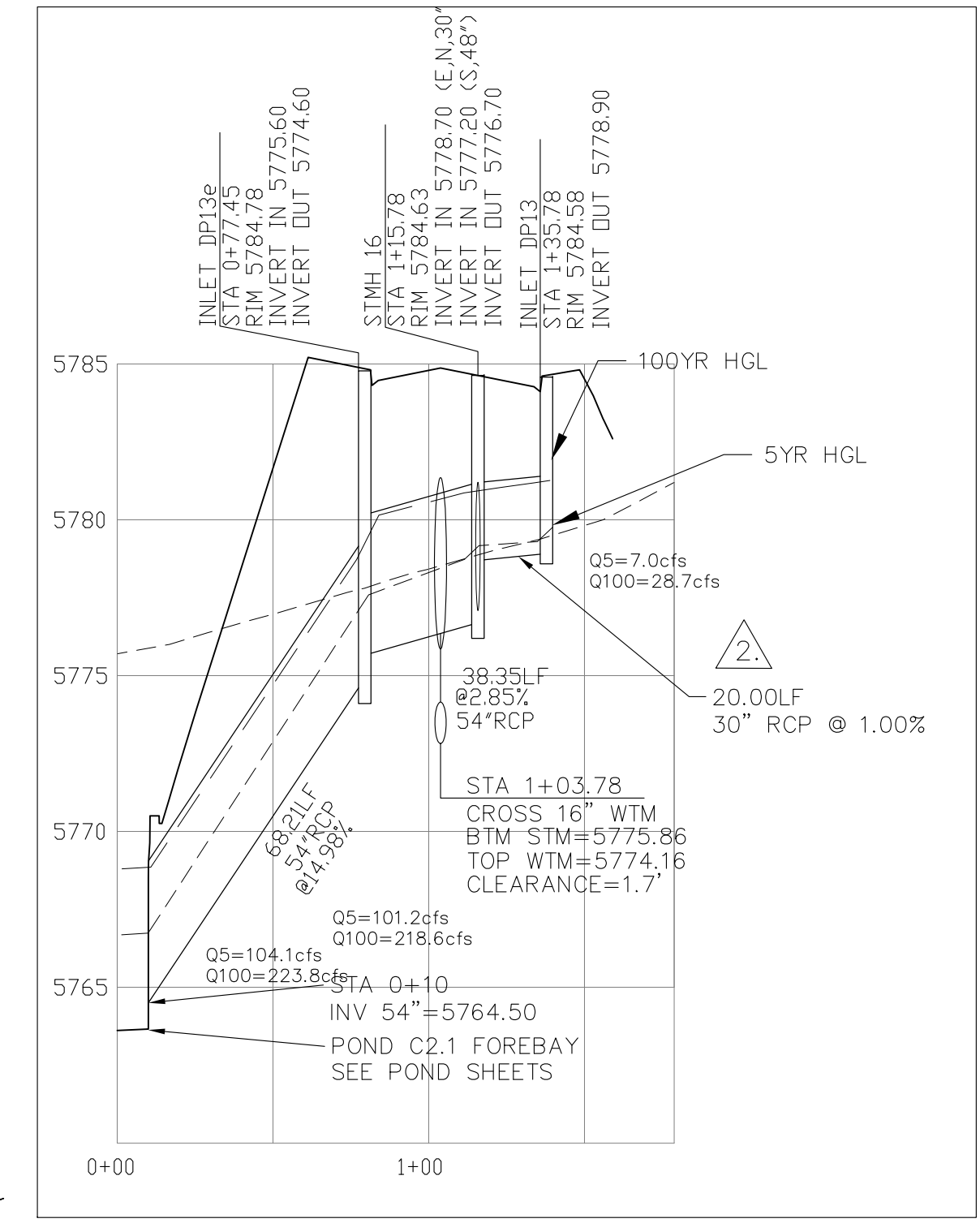
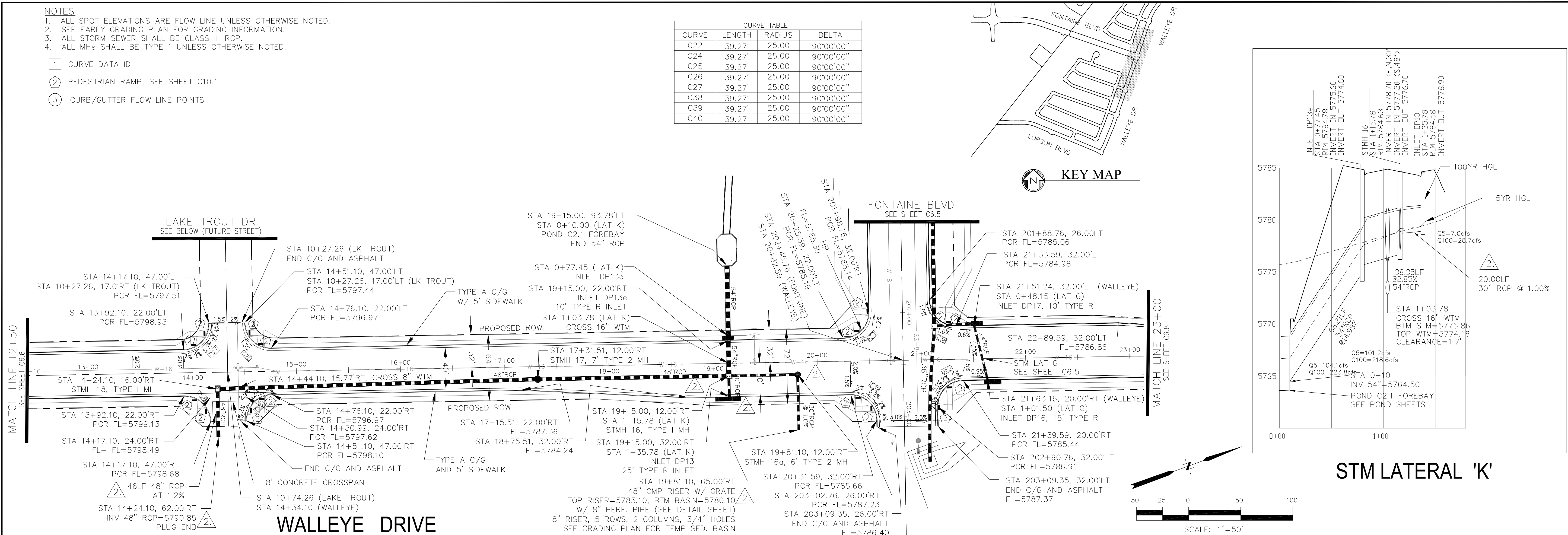
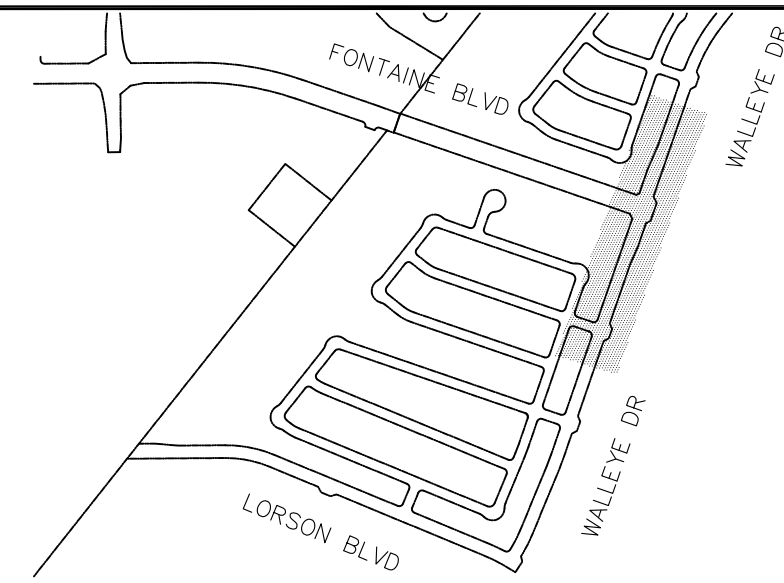


DATE: NOV 12, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER **C6.6**  
 TOTAL SHEETS: 58

- 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	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"



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 151st Avenue S, Suite 300  
Plymouth, CO 80453  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

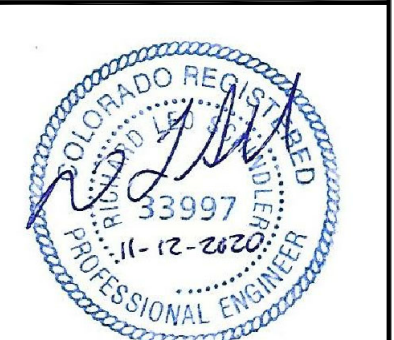
DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1. UPSIZE TO 48" IN WALLEYE, ADD 30" STM AND MH.  
2. CHANGED TO 30" AT INLET DP13

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

PROJECT: STREET CONSTRUCTION  
STREET CONSTRUCTION  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**  
WALLEYE DR & LAKE TROUT DR  
STA 12+50 TO STA 23+00

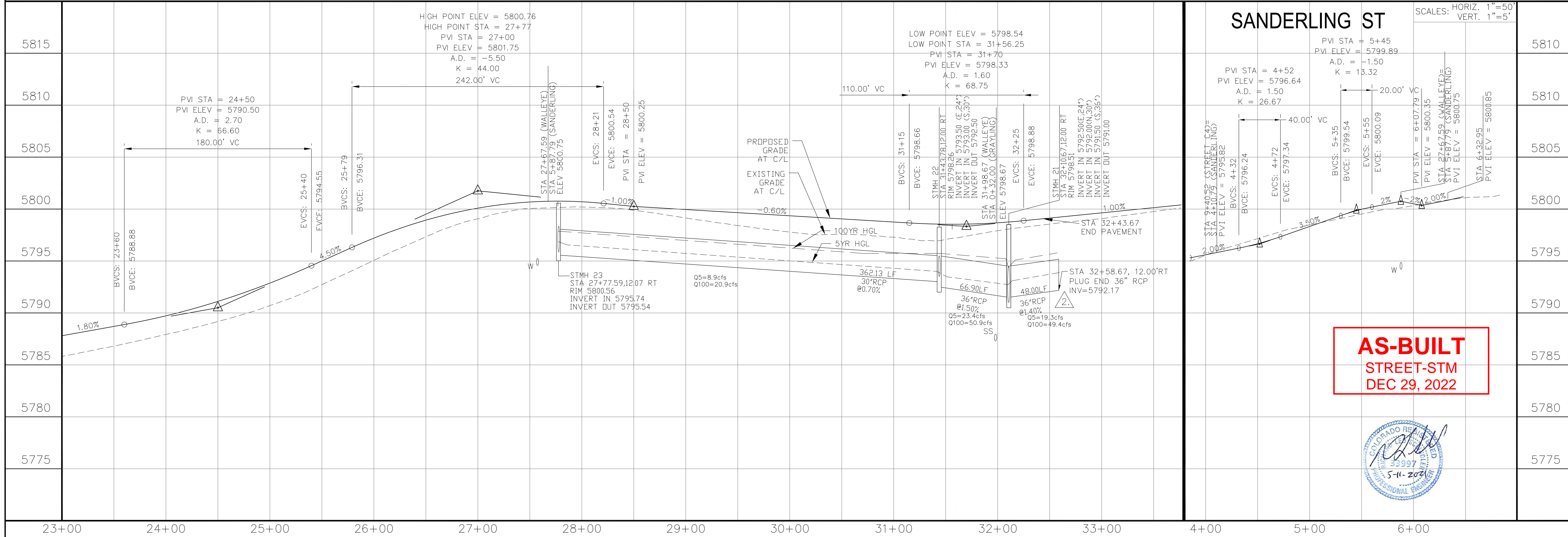
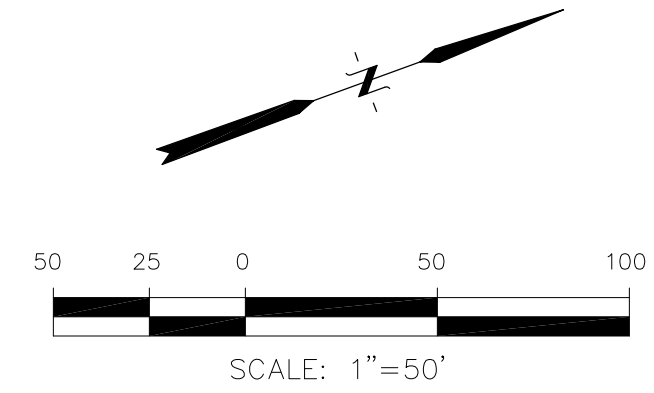
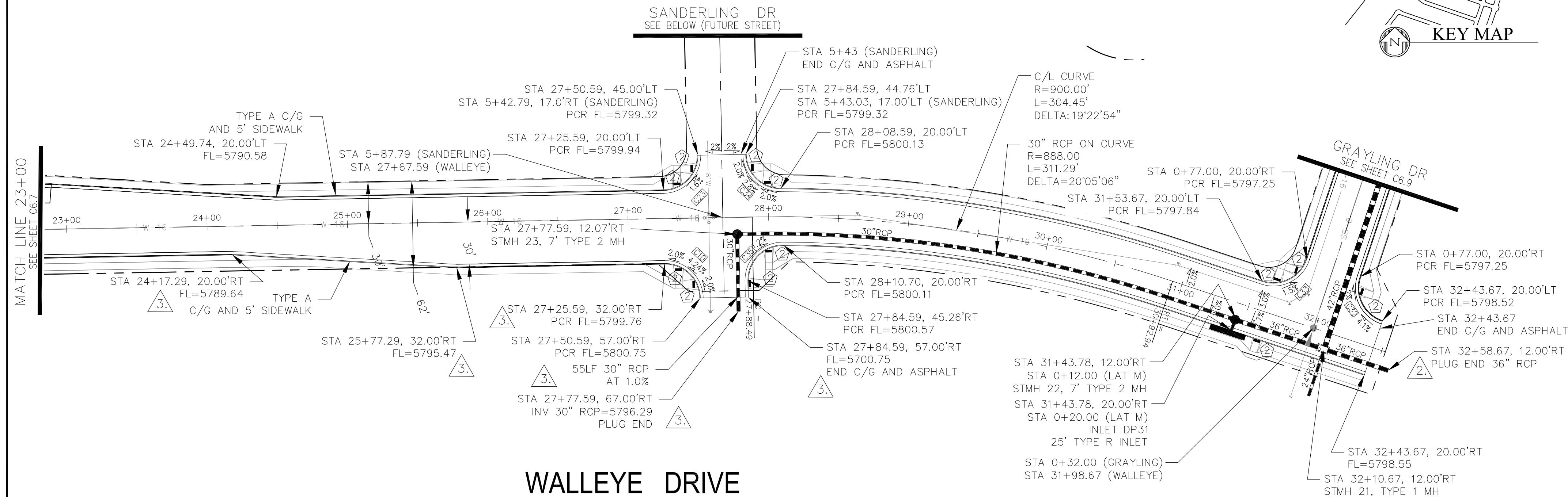
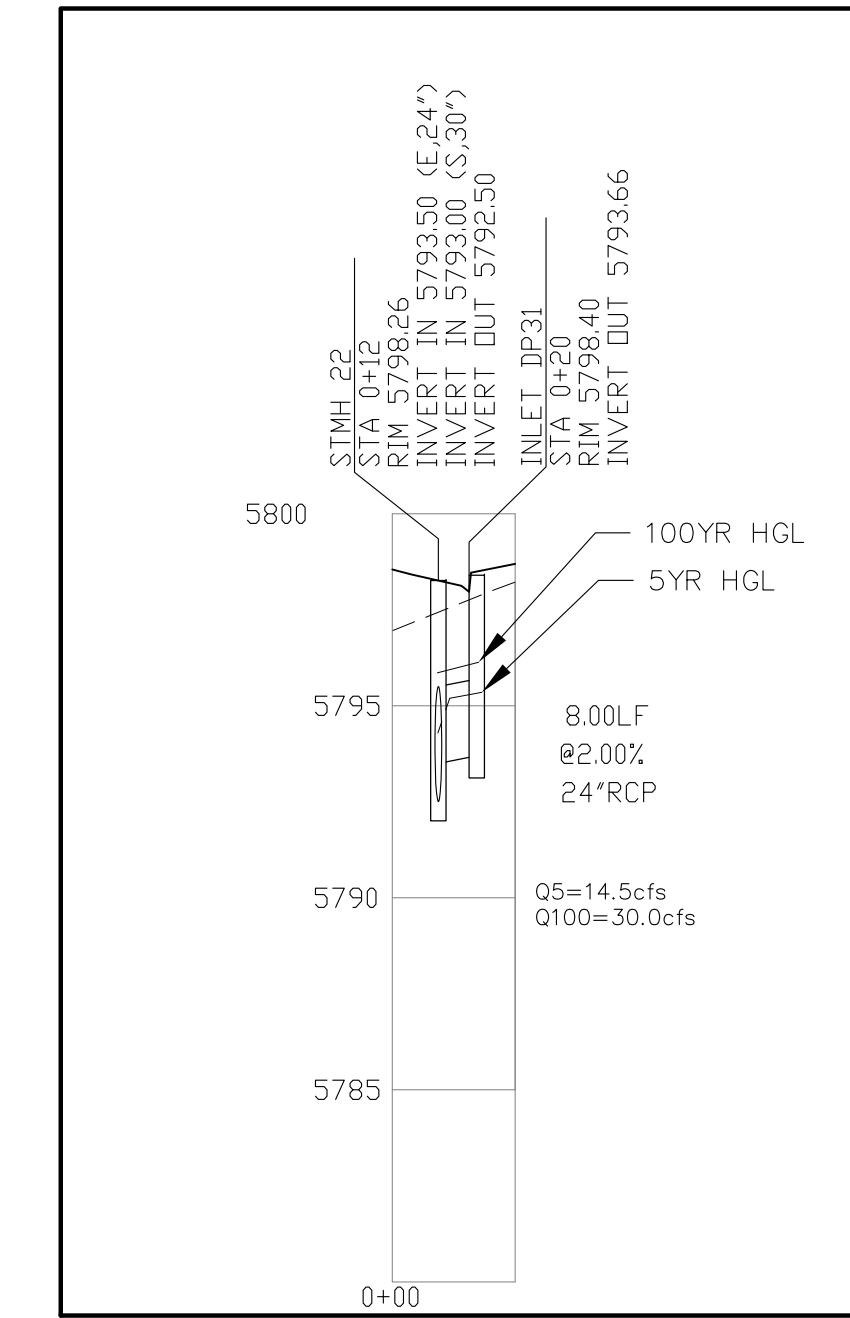
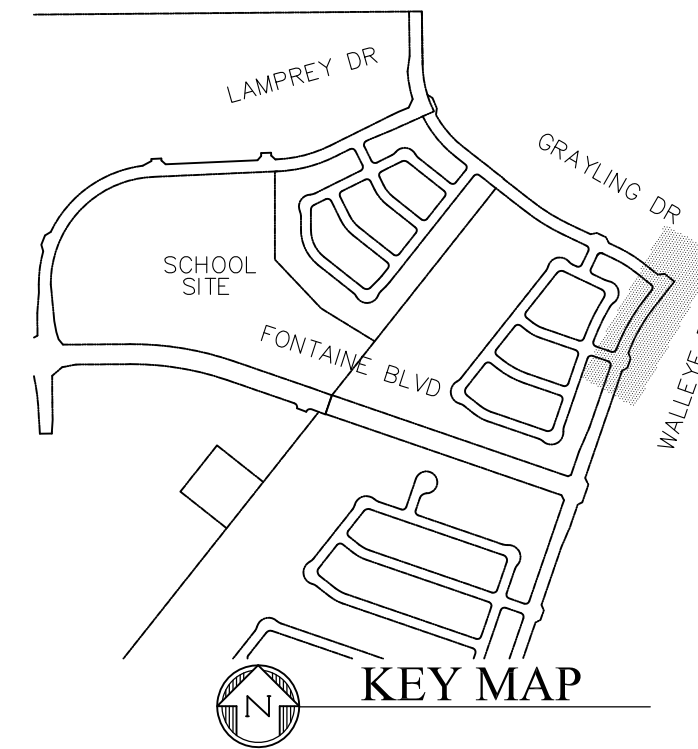


DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C6.7  
TOTAL SHEETS: 58

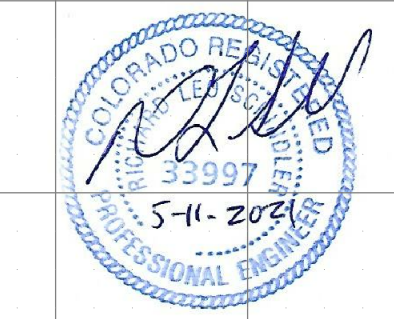
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 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"



**AS-BUILT**  
STREET-STM  
DEC 29, 2022



**CORE**  
**ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: JAN 12, 2021  
MARCH 18, 2021  
MAY 11, 2021

DESCRIPTION: RAISE SITE 1 EAST OF POWERLINES  
CHANGE STUD TO 36"  
ADD RIGHT TURN LANE AT SANDERLING

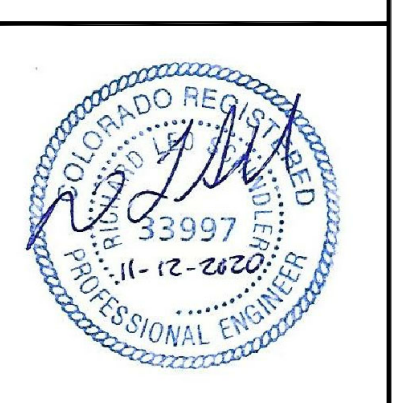
NO. 1.  
2.  
3.

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

**STREET & STORM SEWER PLAN/PROFILE**  
**WALLEYE DR & SANDERLING ST**  
**STA 23+00 TO STA 32+75**



DATE: NOV 12, 2020

PROJECT NO. 100.061

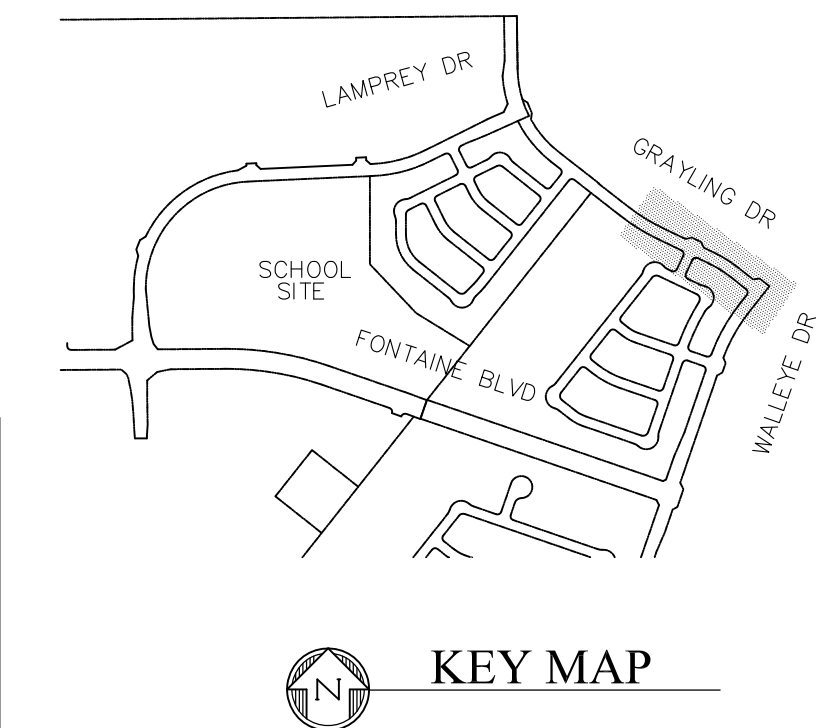
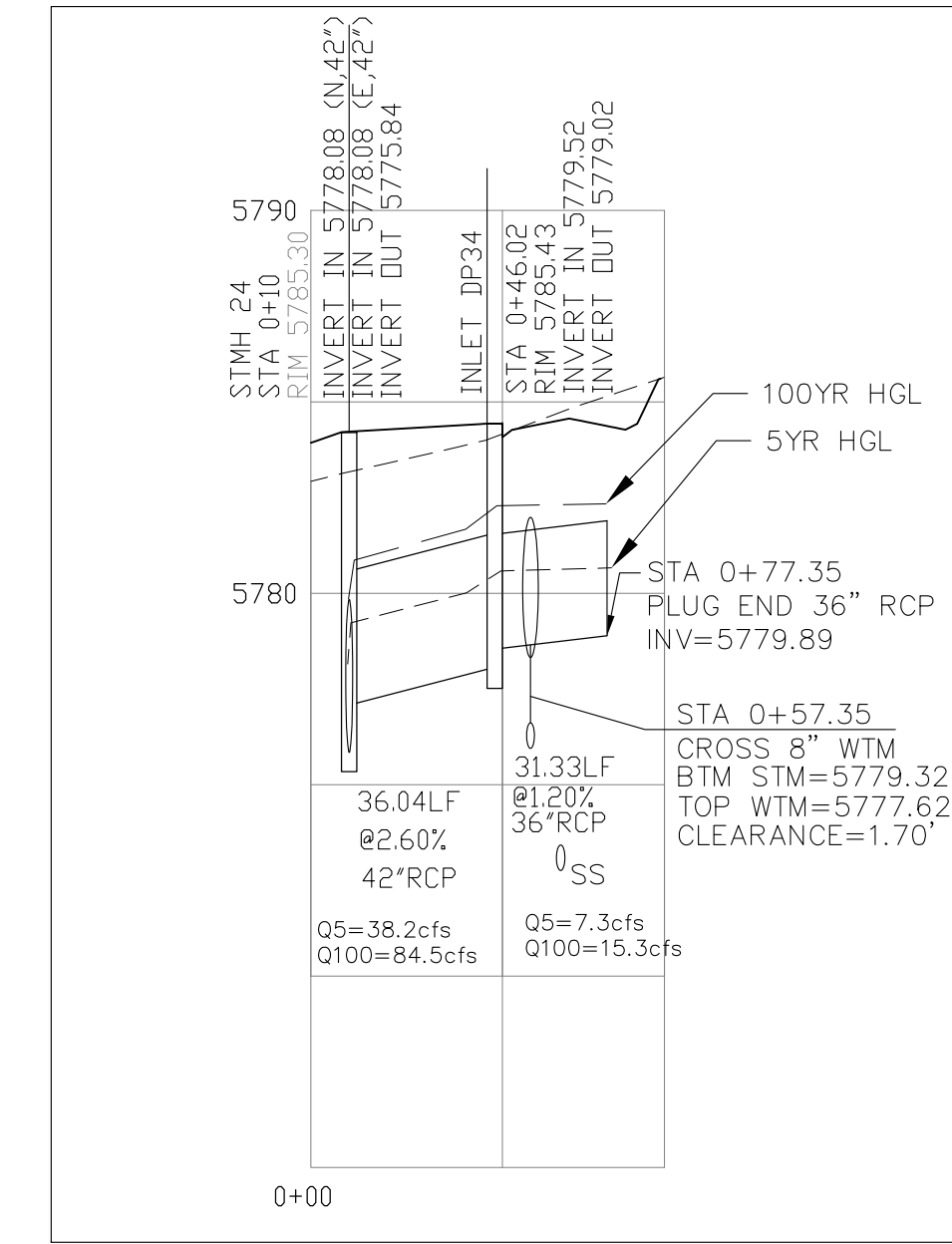
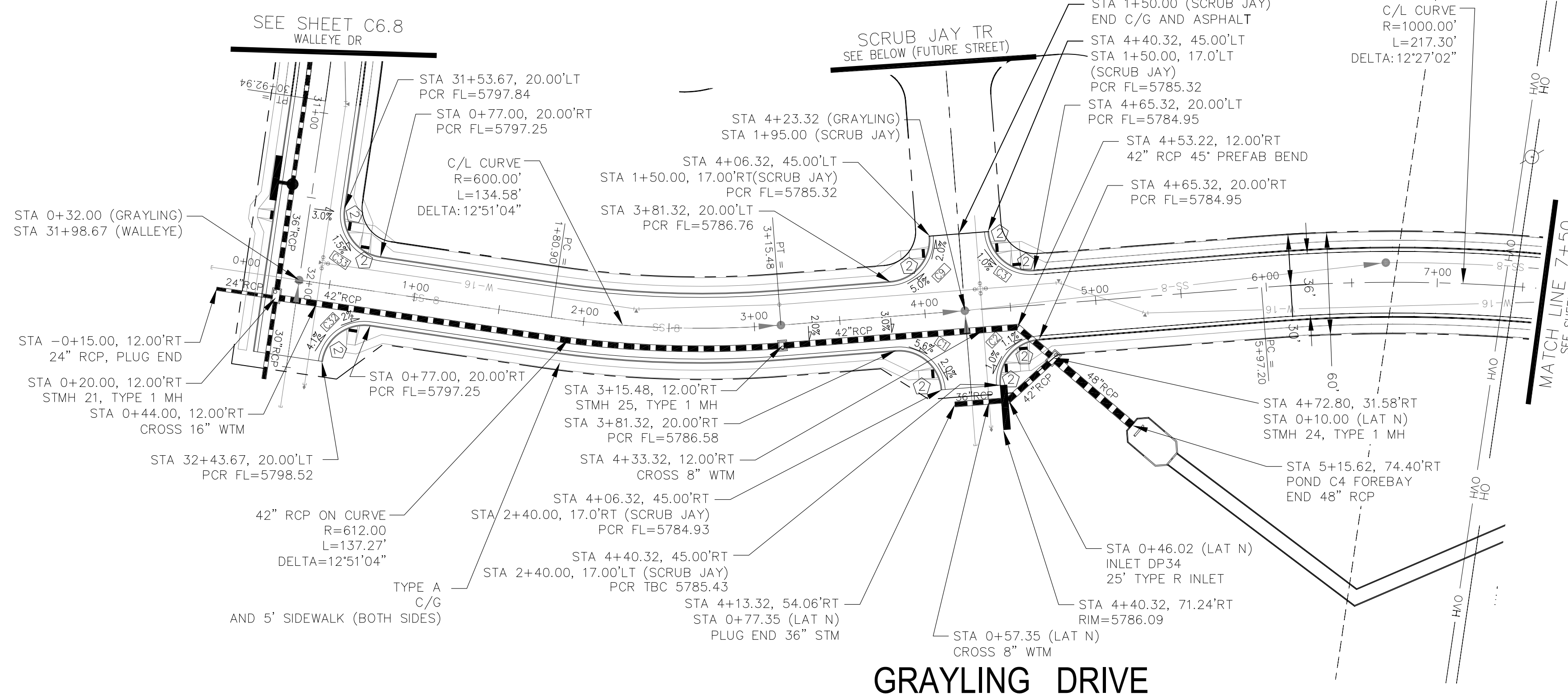
SHEET NUMBER **C6.8**

TOTAL SHEETS: 58

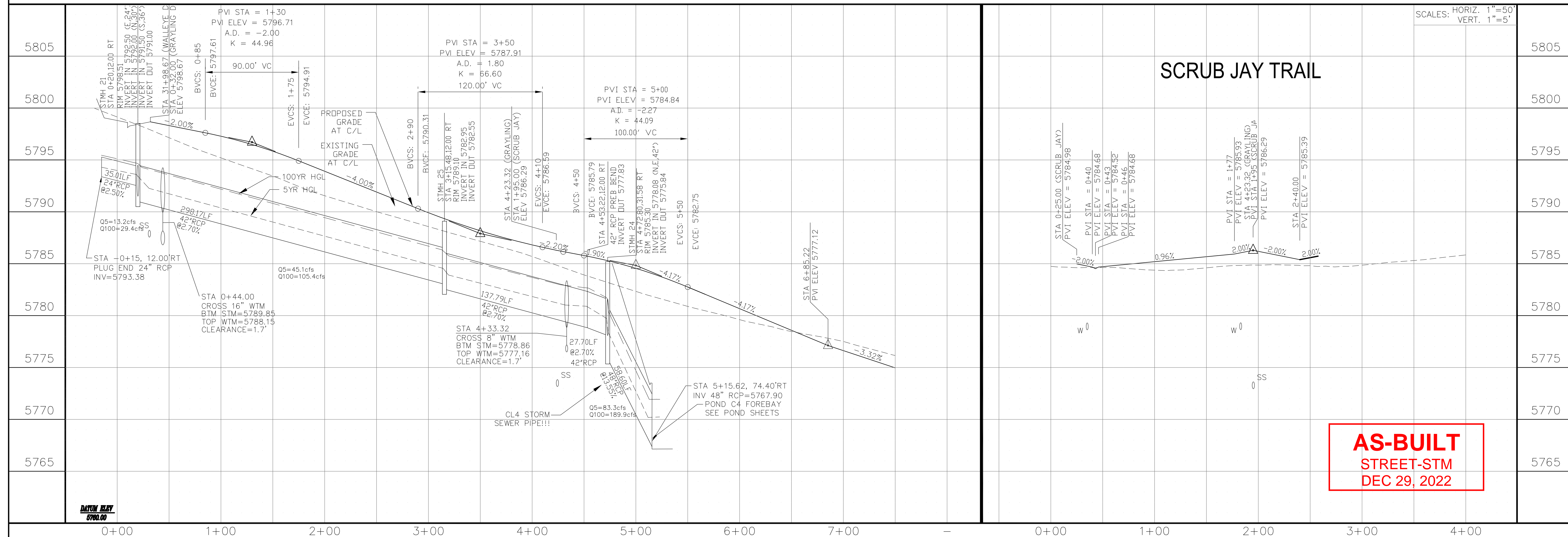
- NOTES
1. ALL SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE NOTED.
  2. SEE EARLY GRADING PLAN FOR GRADING INFORMATION.
  3. ALL STORM SEWER SHALL BE CLASS III RCP.
  4. ALL MHS SHALL BE TYPE 1 UNLESS OTHERWISE NOTED.

- 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'



SCRUB JAY TRAIL

**AS-BUILT**  
STREET-STM  
DEC 29, 2022

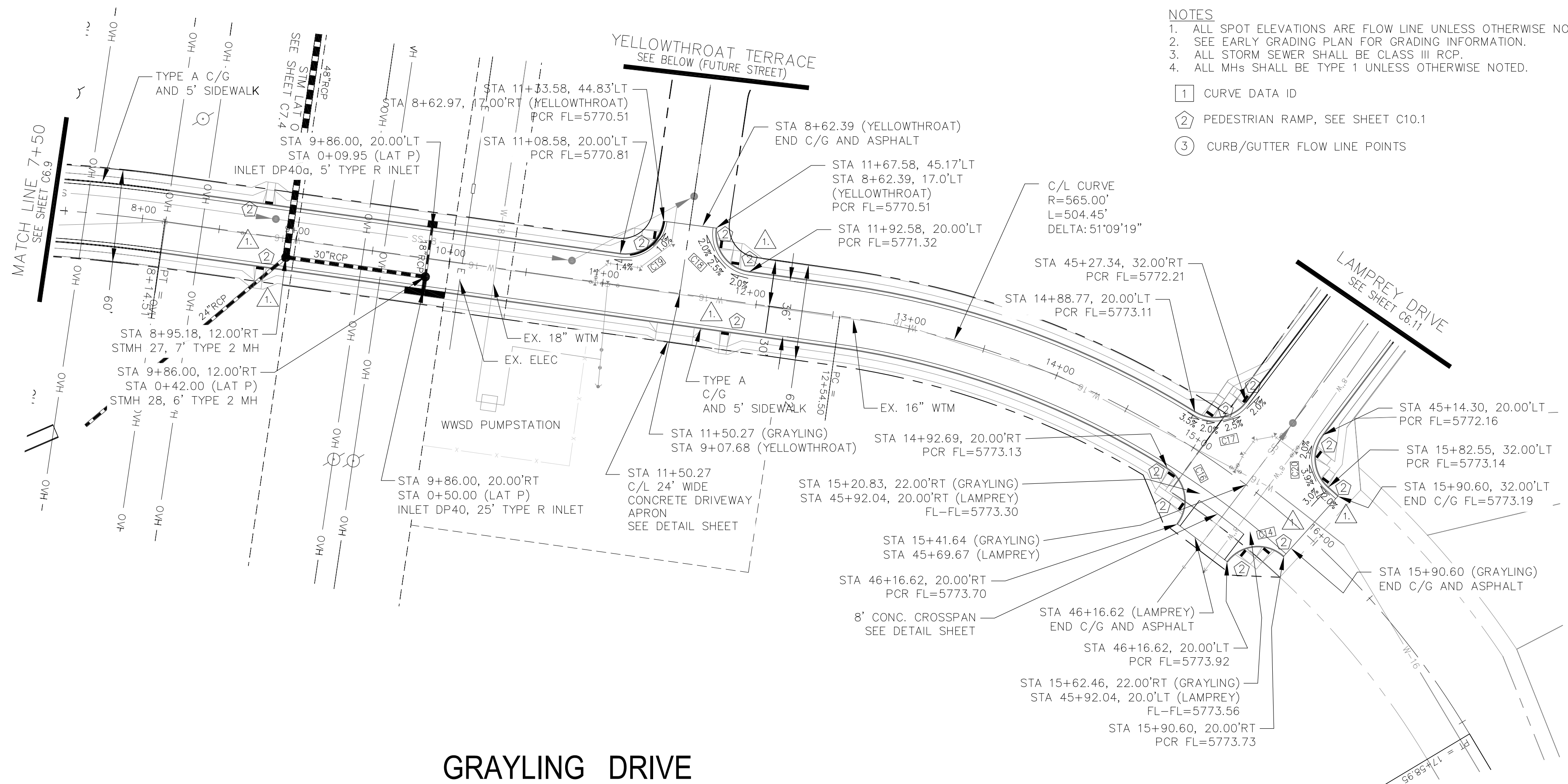
**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE S.  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
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

**STREET & STORM SEWER PLAN/PROFILE**  
**GRAYLING DR & SCRUB JAY TR**  
**STA 0+00 TO STA 7+50**



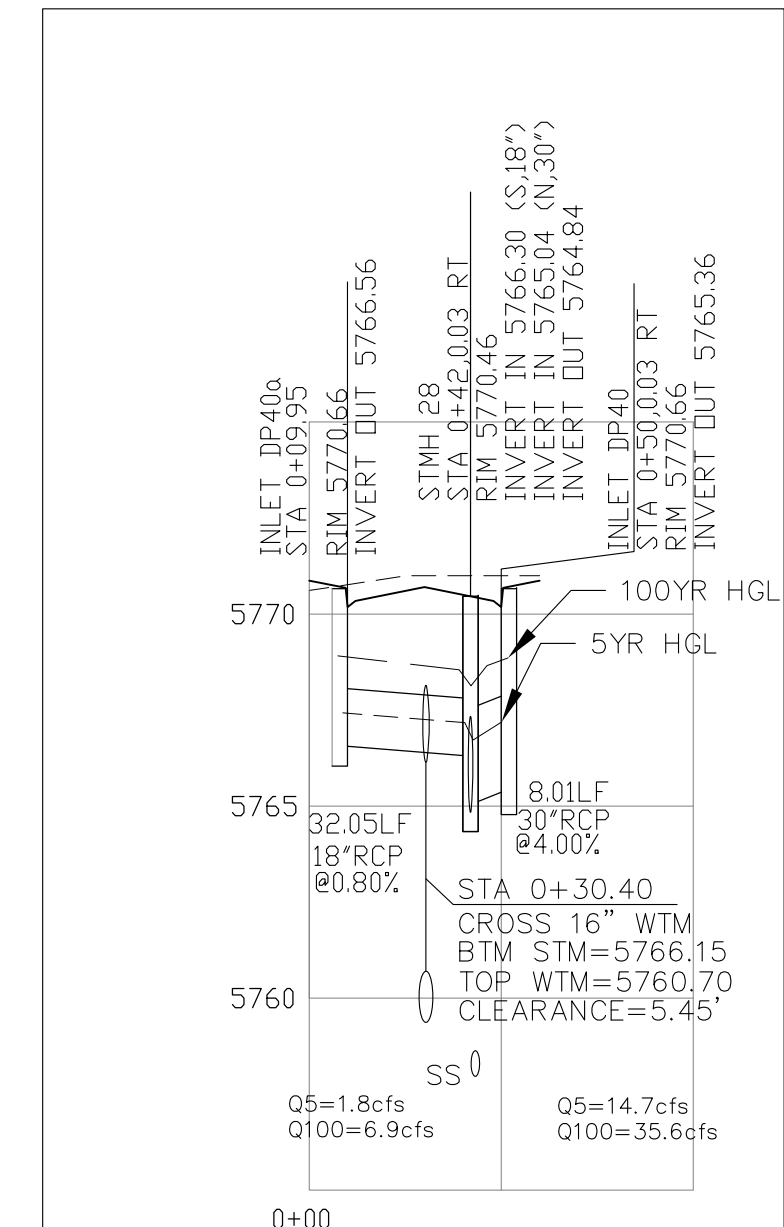
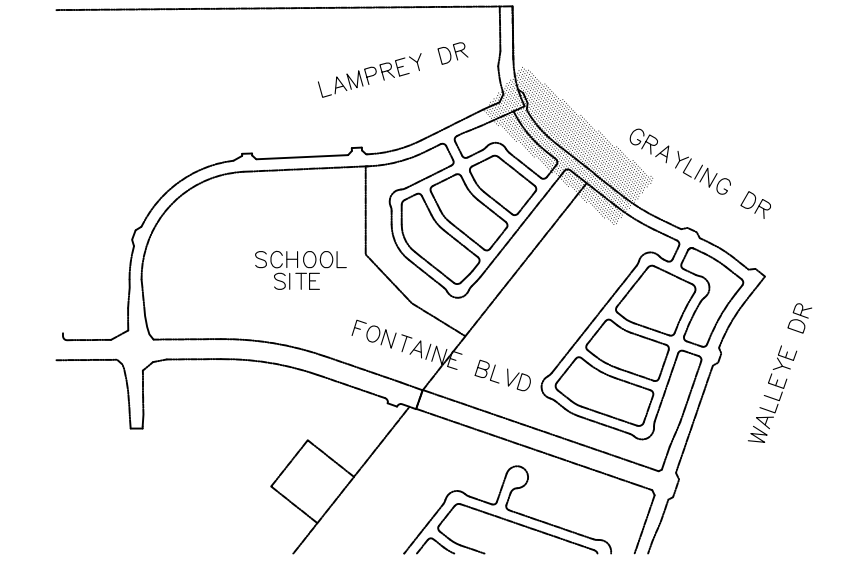
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER **C6.9**  
TOTAL SHEETS: 58



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

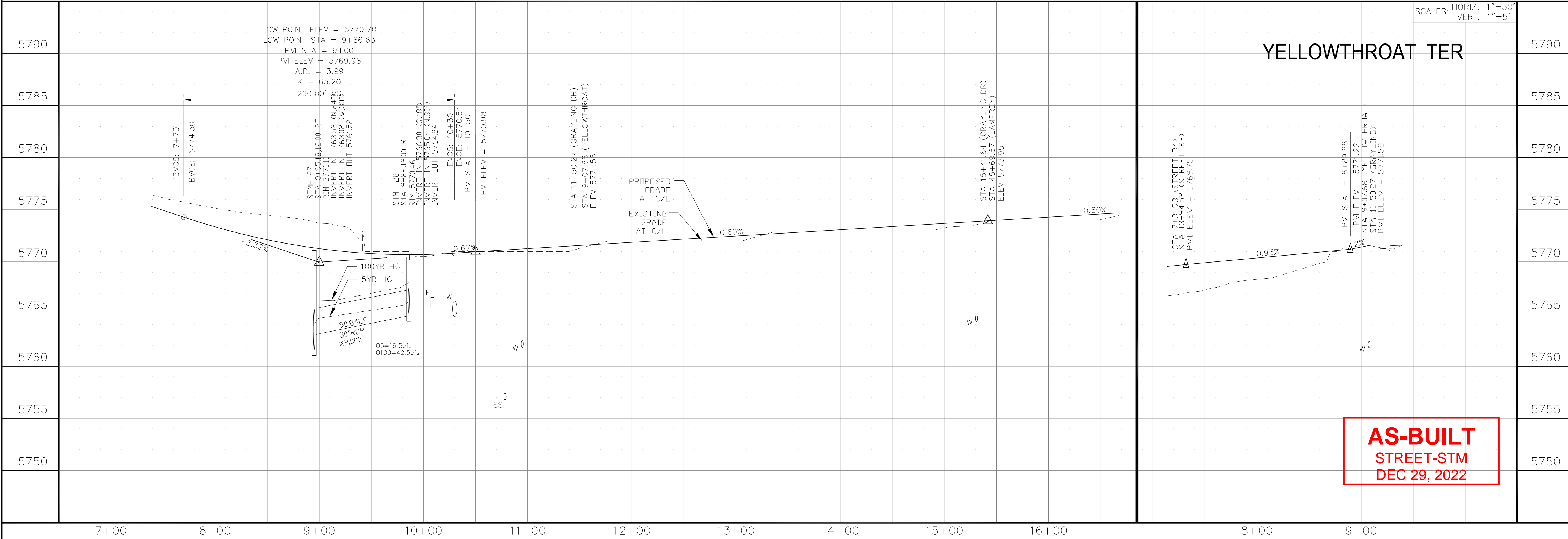
**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C14	41.44'	25.00	94°57'52"
C16	41.44'	25.00	94°57'52"
C17	36.93'	25.00	84°38'18"
C18	39.44'	25.00	90°24'02"
C19	39.10'	25.00	89°35'58"
C20	37.46'	25.00	85°51'04"



**GRAYLING DRIVE**

**STM LAT 'P'**



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 151st AVENUE, SUITE 300  
DENVER, CO 80242  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: 12/17/2020

DESCRIPTION: ADD PEDESTRIAN RAMPS/CROSSINGS

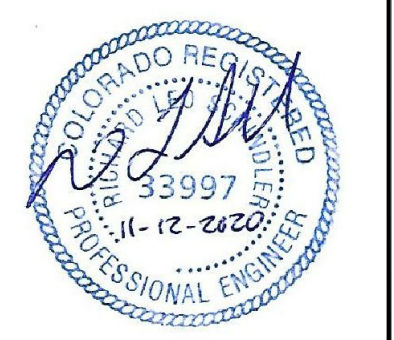
NO. 1

PROJECT FOR: **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  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**STREET & STORM SEWER PLAN/PROFILE**  
**GRAYLING DR & YELLOWTHROAT TER.**  
**STA 7+50 TO STA 16+00**



DATE: NOV 12, 2020

PROJECT NO. 100.061

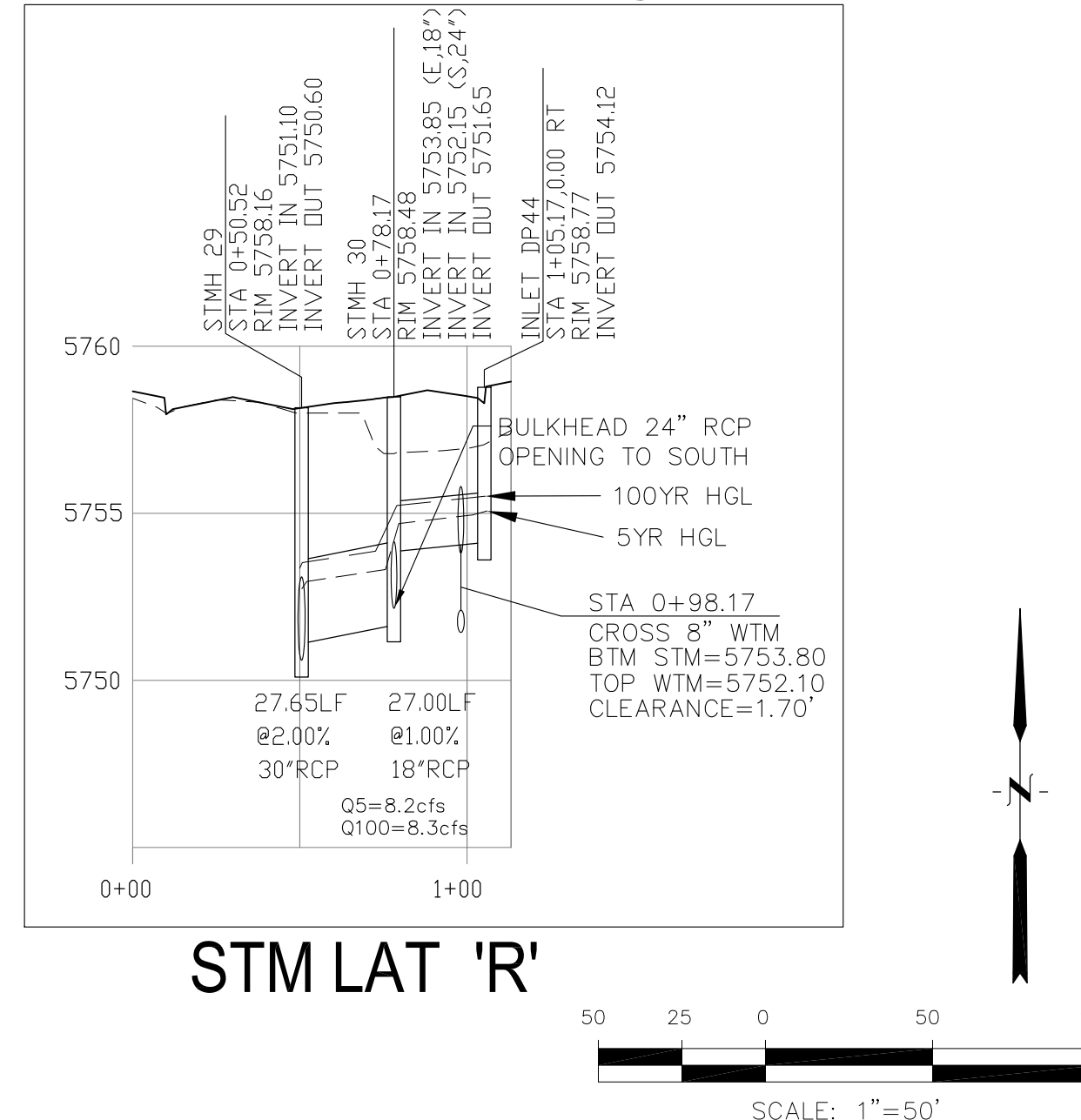
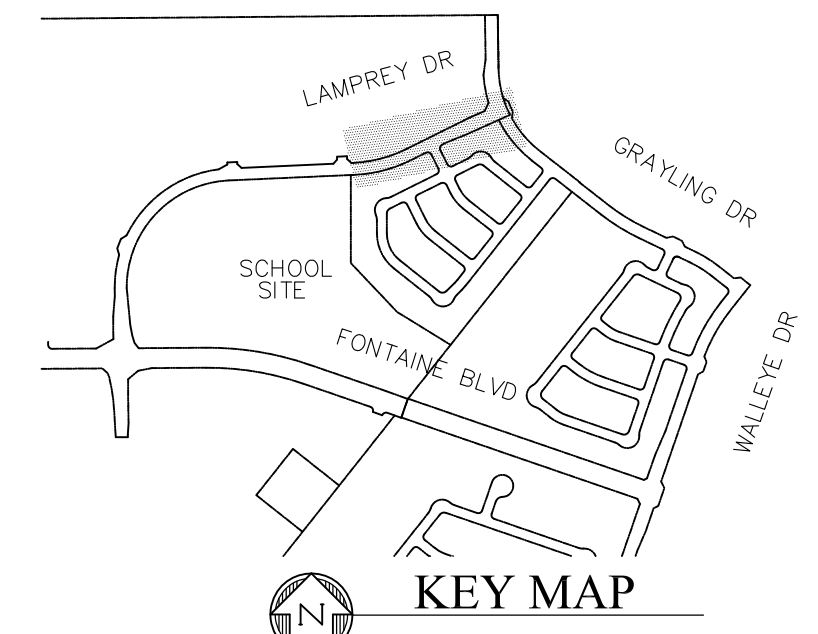
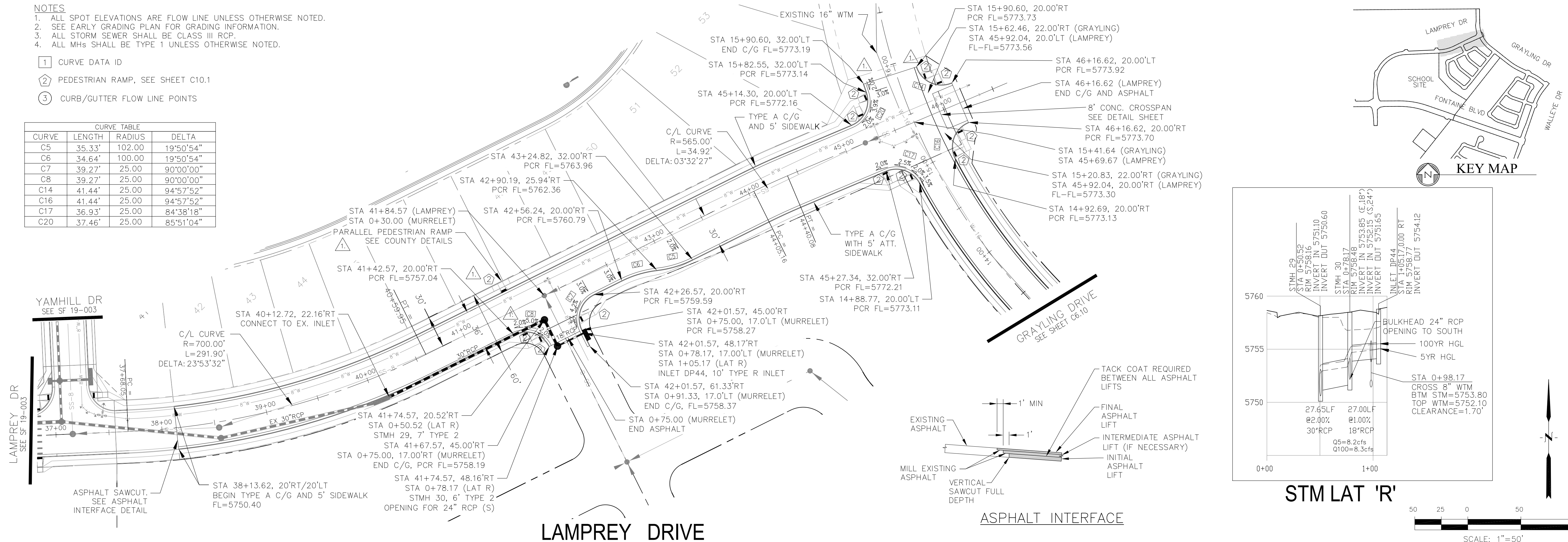
SHEET NUMBER **C6.10**

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 151<sup>ST</sup> AVENUE, S.  
 P.O. BOX 100  
 PHOENIX, AZ 85006  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: 12/17/2020

DESCRIPTION: ADD PEDESTRIAN RAMPS/CROSSINGS

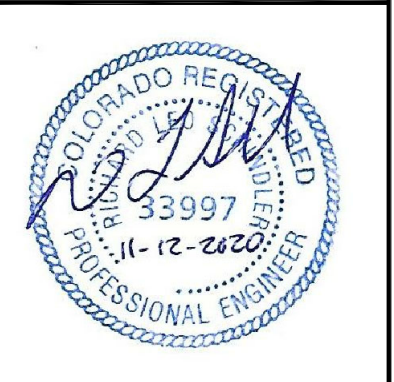
NO. 1

PREPARED FOR:  
**LORSON, LLC**  
 212 N. WAHATCH 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

**STREET & STORM SEWER PLAN/PROFILE**  
**LAMPREY DR AND MURRELET DR**  
**STA 37+15 TO STA 46+00**



DATE: NOV 12, 2020

PROJECT NO. 100.061

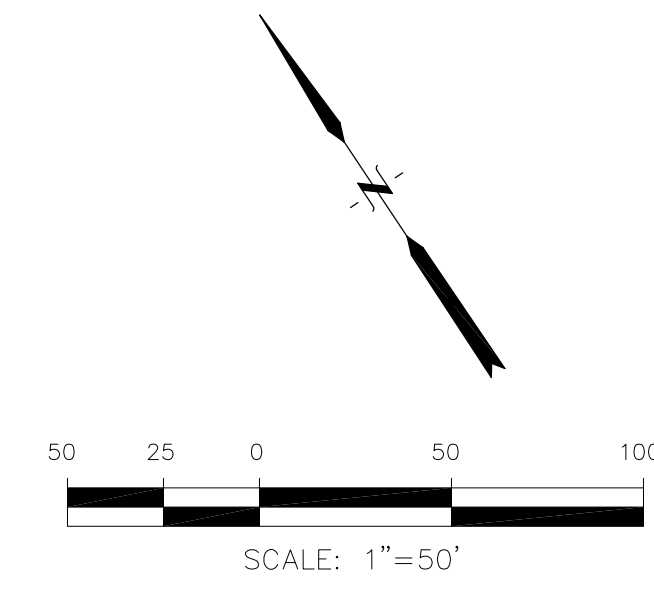
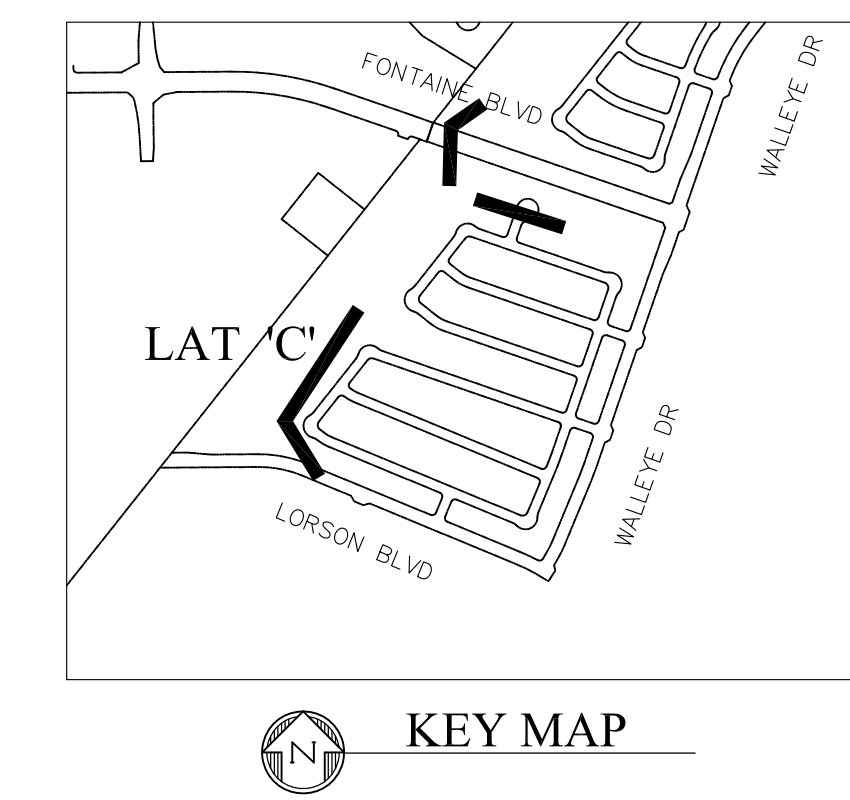
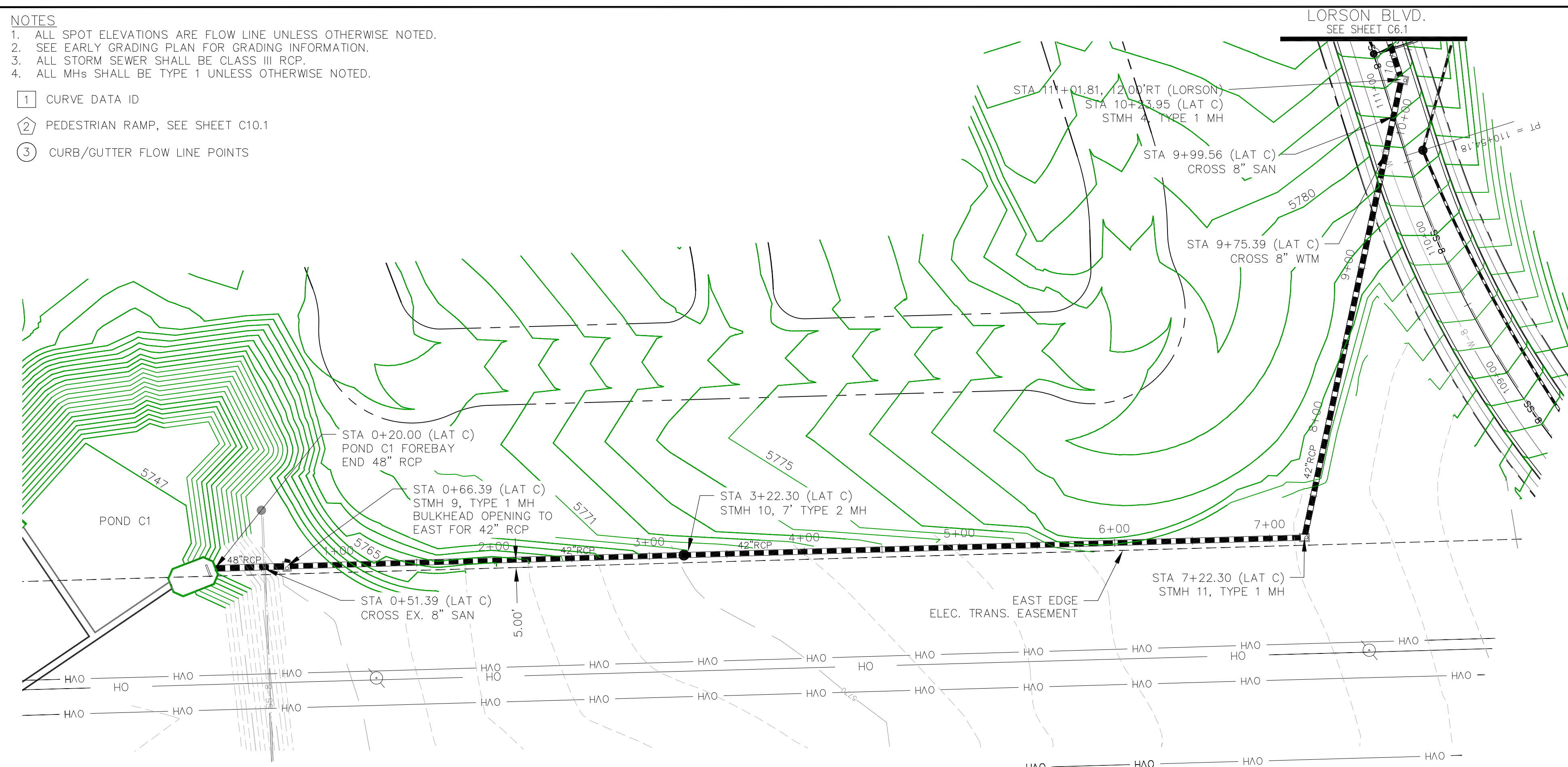
SHEET NUMBER **C6.11**

TOTAL SHEETS: 58

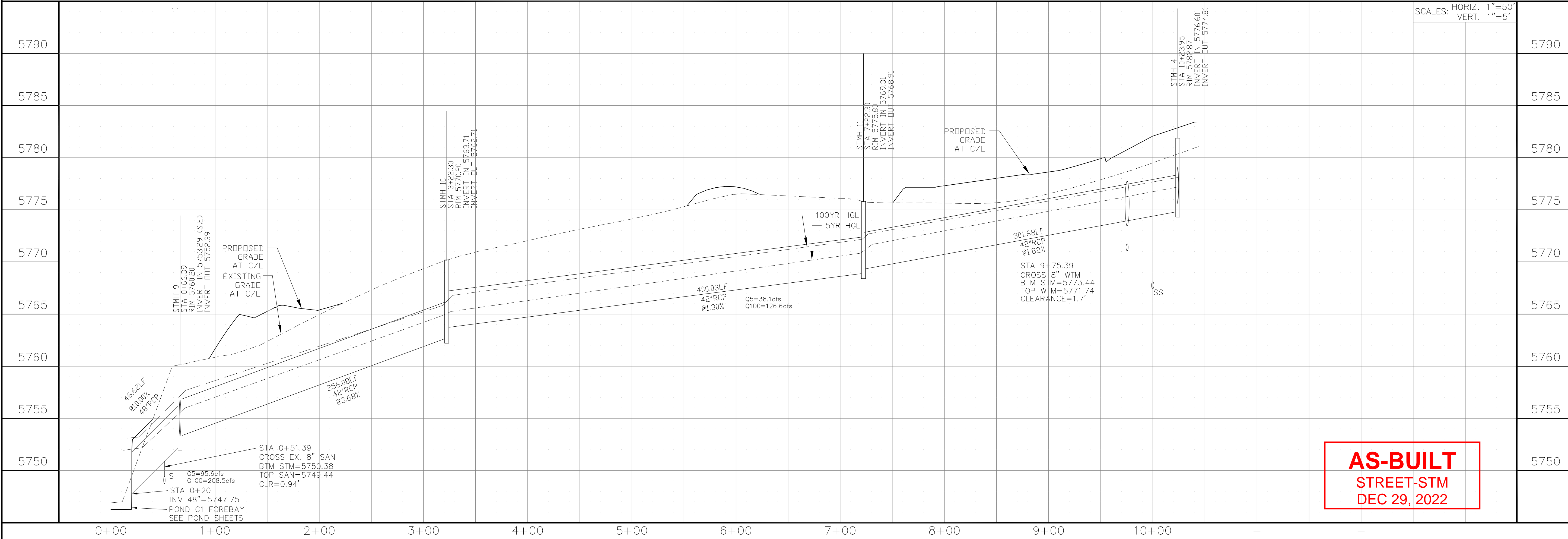
**AS-BUILT**  
**STREET-STM**  
**DEC 29, 2022**

- 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



STORM LATERAL 'C'



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE**  
ENGINEERING GROUP  
15004 151<sup>ST</sup> AVENUE, S.  
DENVER, CO 80230  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cg1.com

DATE: JAN 12, 2021  
NO. 1  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
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

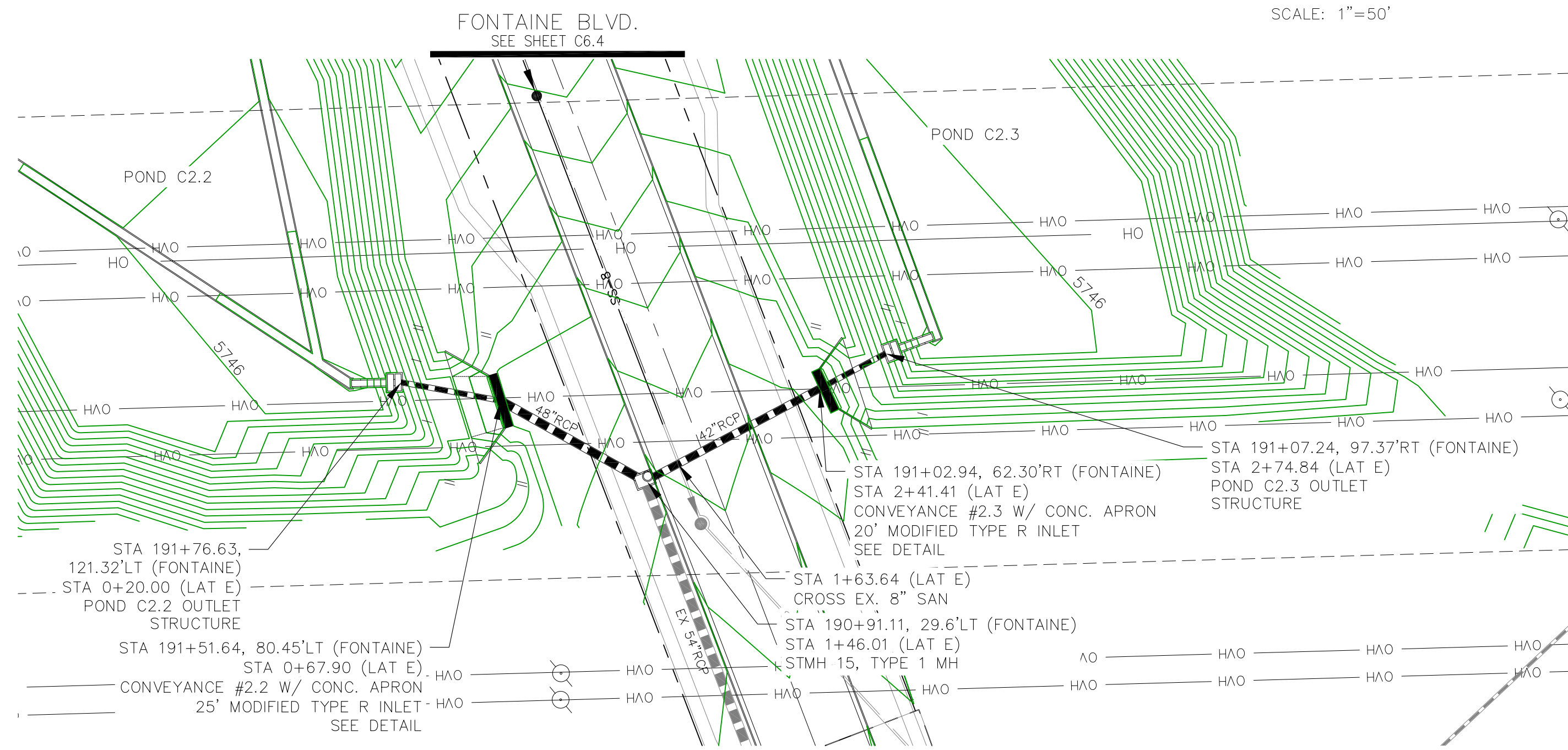
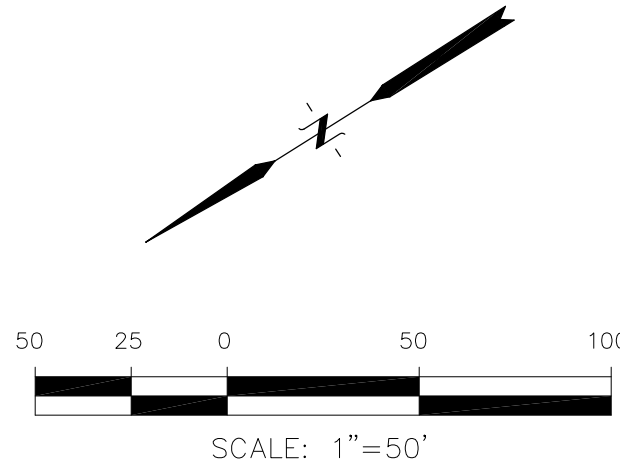
STREET & STORM SEWER PLAN/PROFILE  
STORM LATERAL 'C'



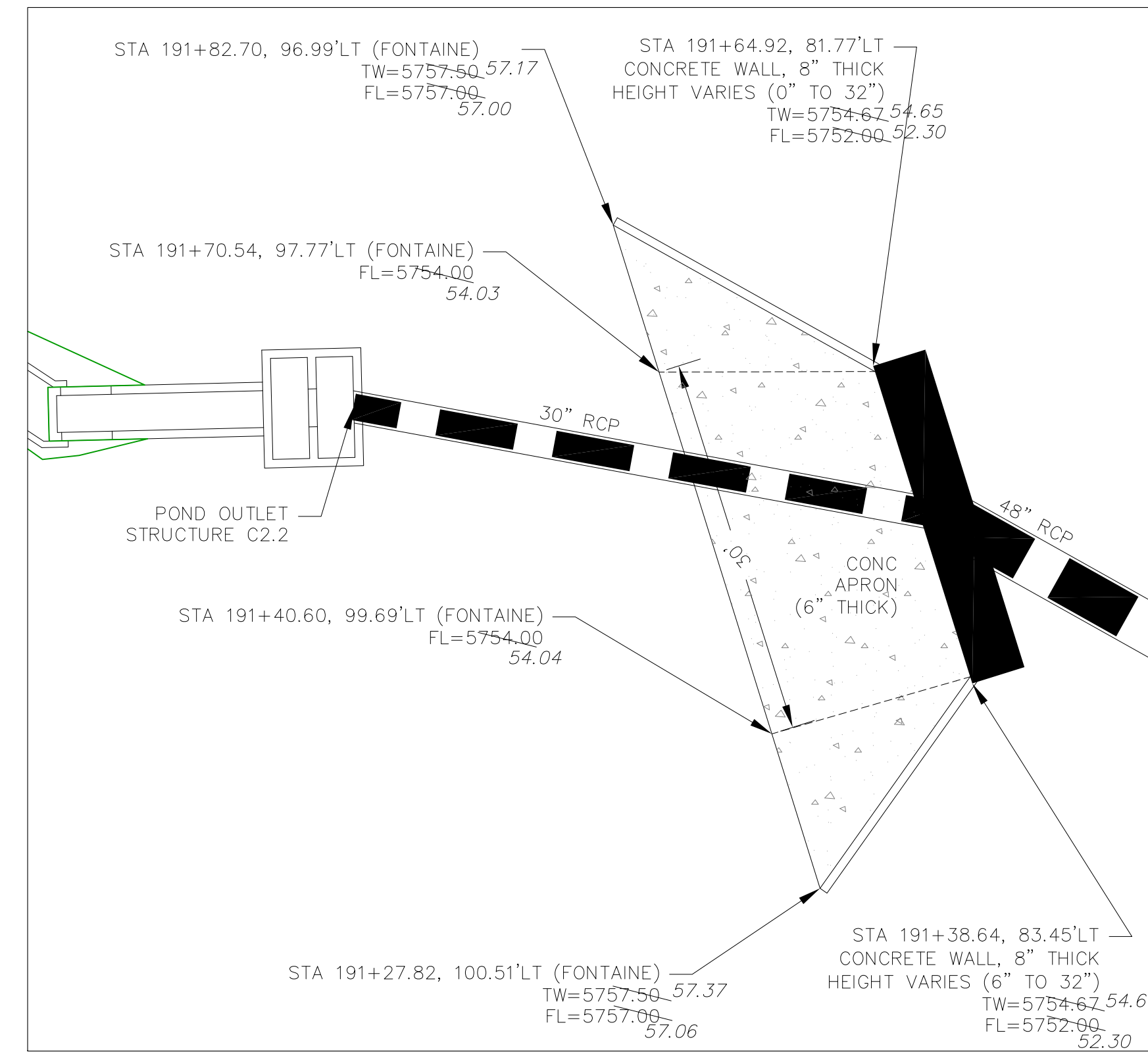
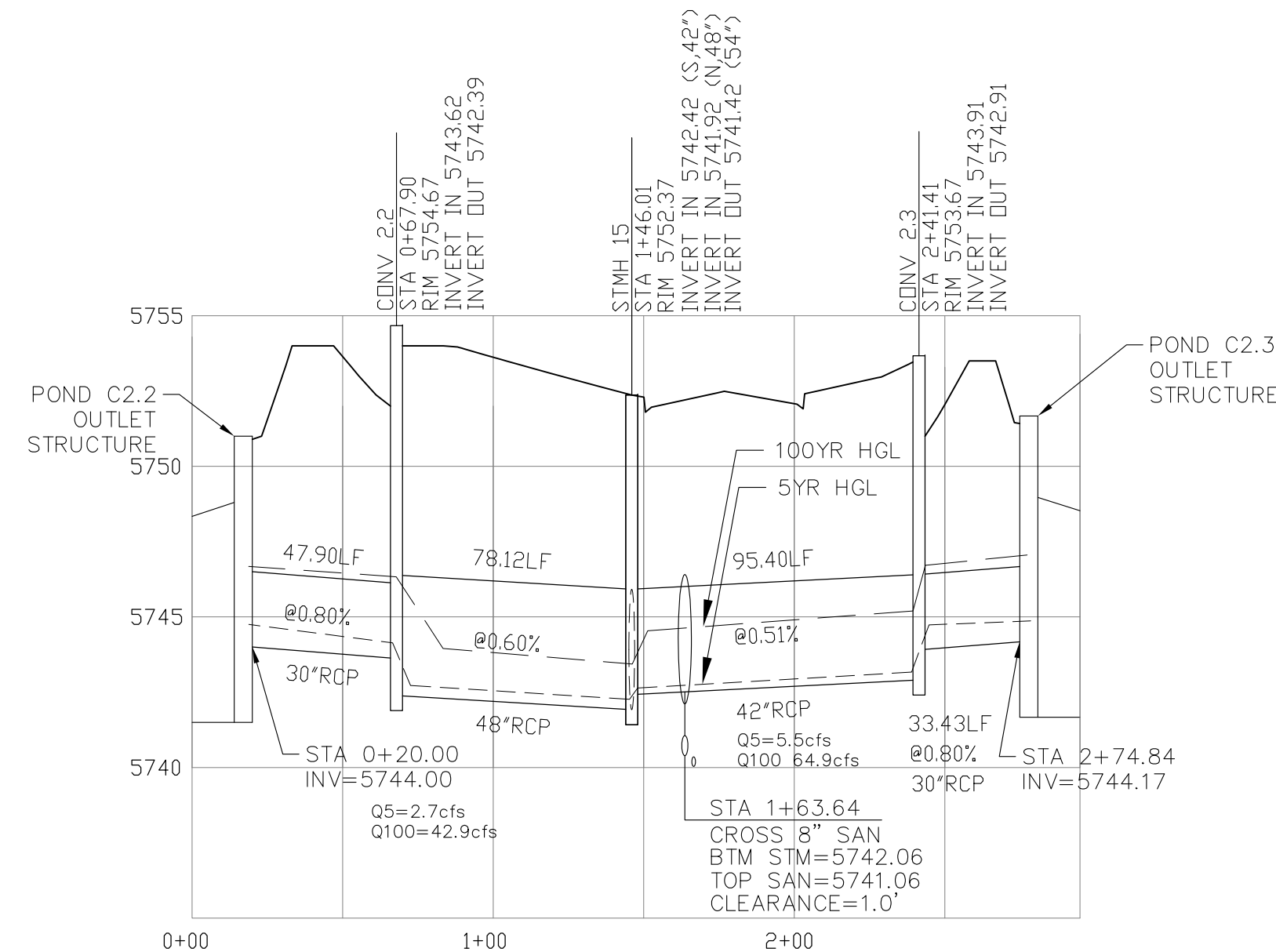
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C7.1  
TOTAL SHEETS: 58

- 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.

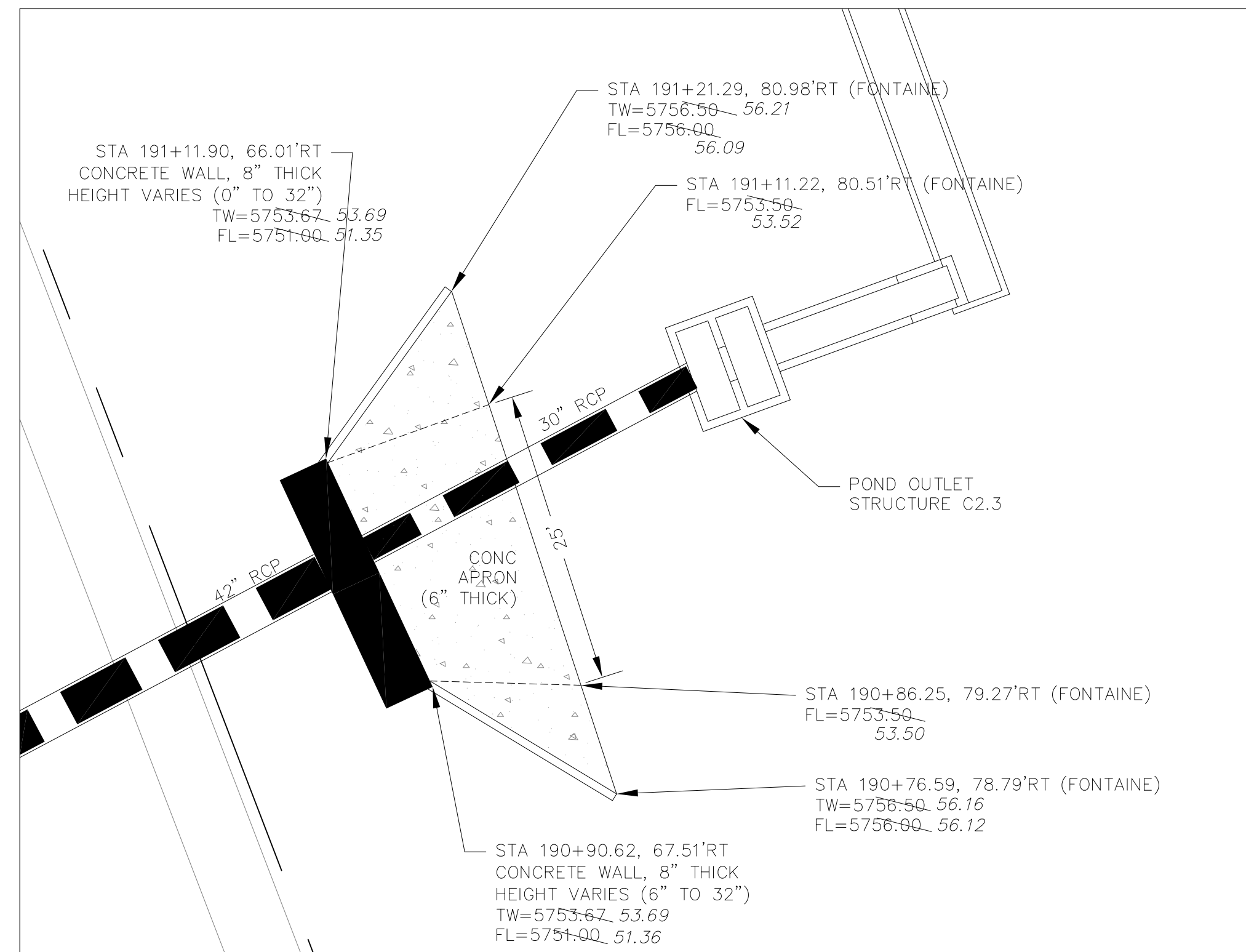
- 1 CURVE DATA ID
- 2 PEDESTRIAN RAMP, SEE SHEET C10.1
- 3 CURB/GUTTER FLOW LINE POINTS



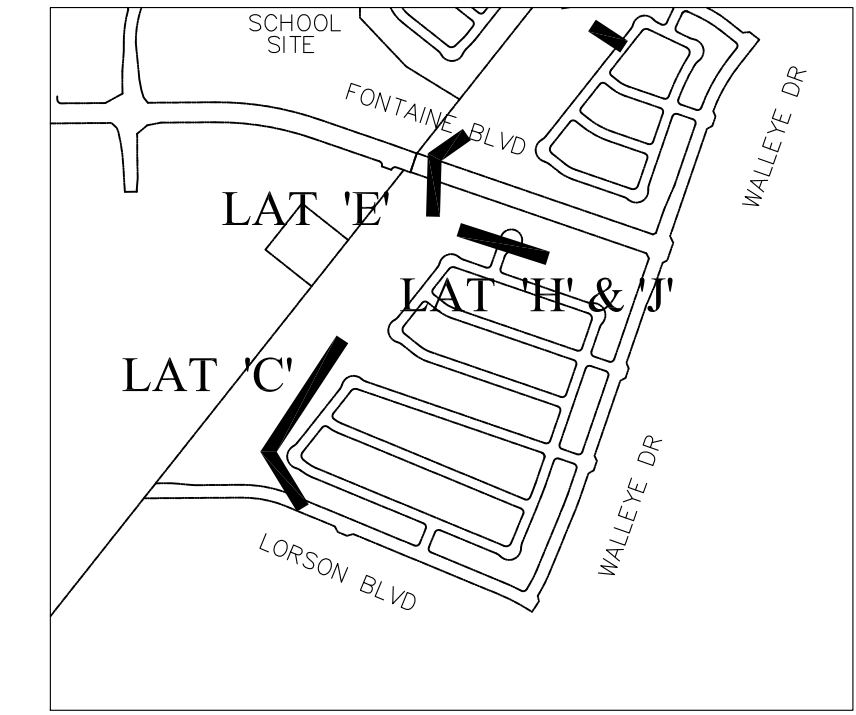
**STORM LATERAL 'E'**



**CONVEYANCE STRUCTURE #2.2**  
SCALE: 1"=10'



**CONVEYANCE STRUCTURE #2.3**  
SCALE: 1"=10'



**KEY MAP**

**CONVEYANCE STRUCTURE #2.2 NOTES:**

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.

**CONVEYANCE STRUCTURE #2.3 NOTES:**

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.

**AS-BUILT**  
DATE: 09/30/2022

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cge1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
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

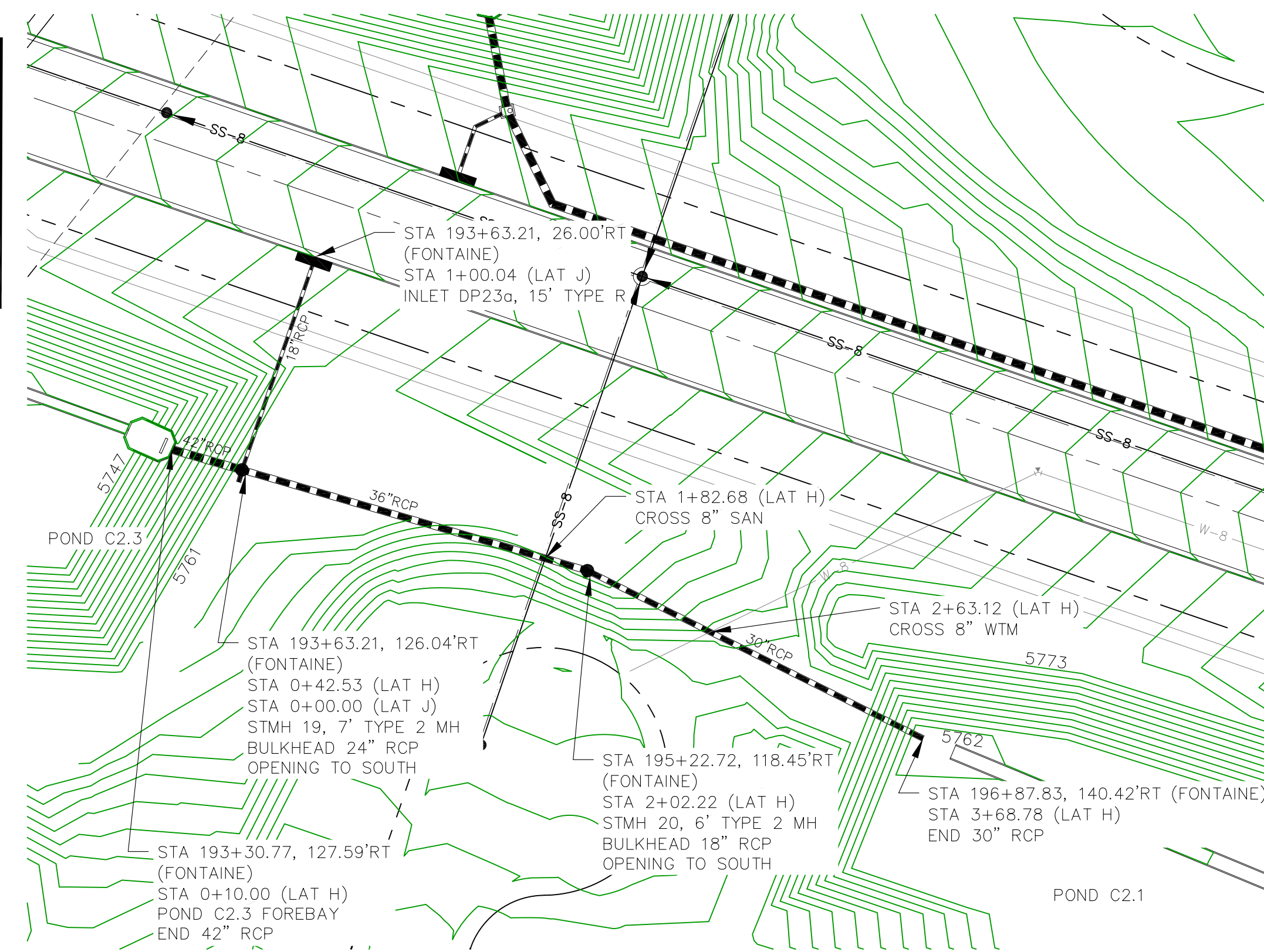
**STREET & STORM SEWER PLAN/PROFILE**  
**STORM LATERAL 'E'**  
**CONVEYANCE #2.2 & #2.3**



DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C7.2  
TOTAL SHEETS: 58



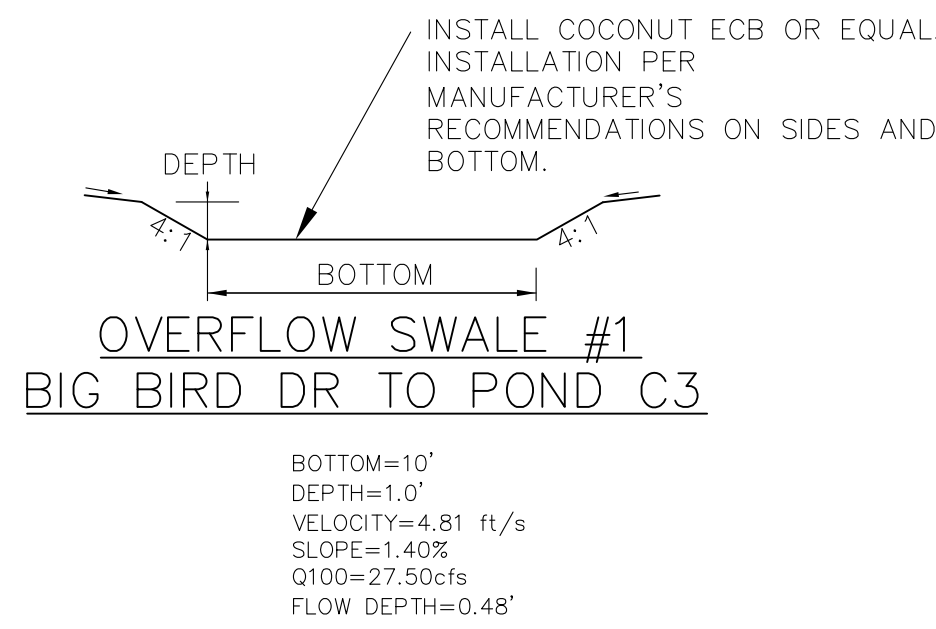
FONTAINE BLVD.  
SEE SHEET C6.4



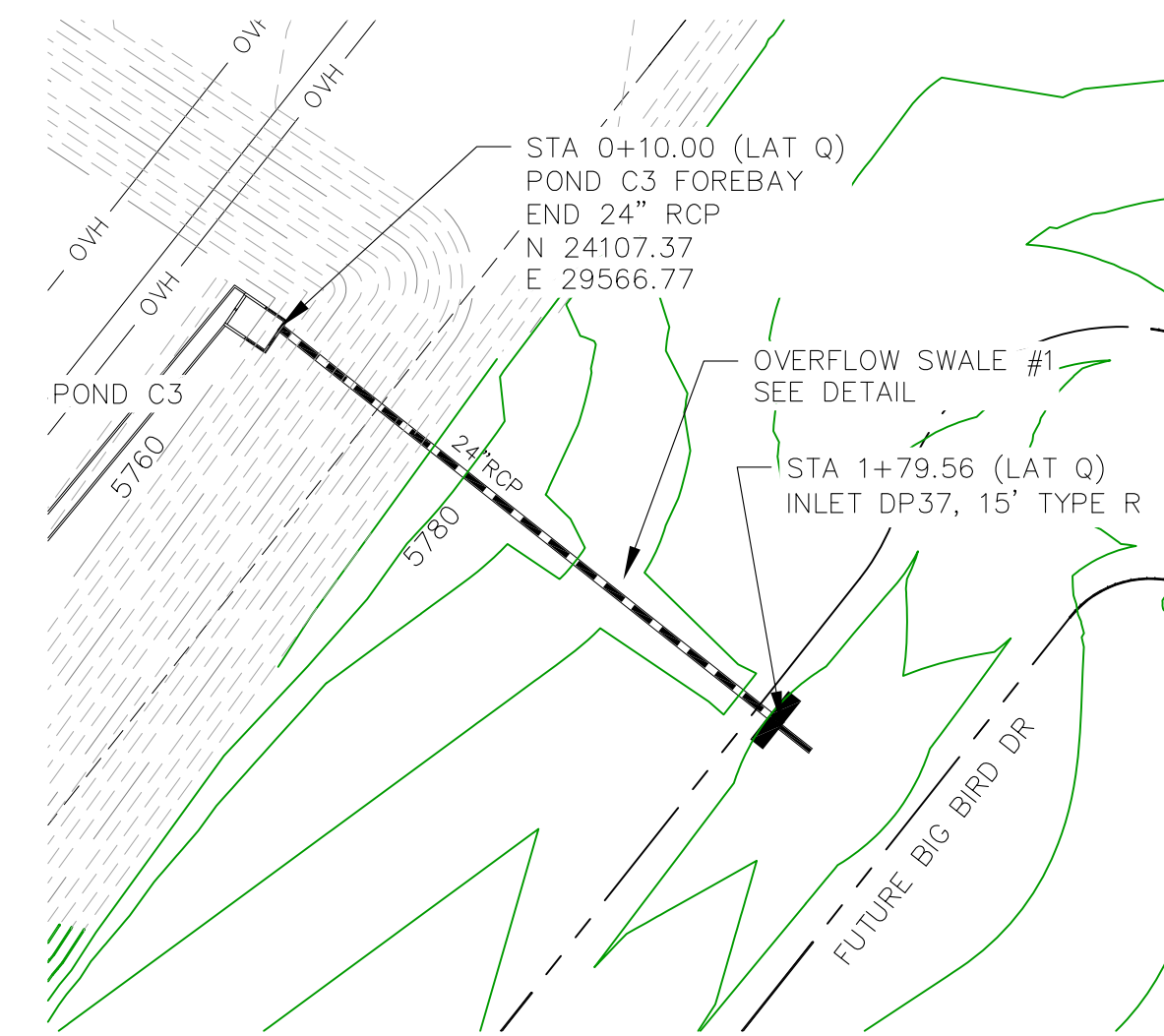
**STORM LATERAL 'H'**

- 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.

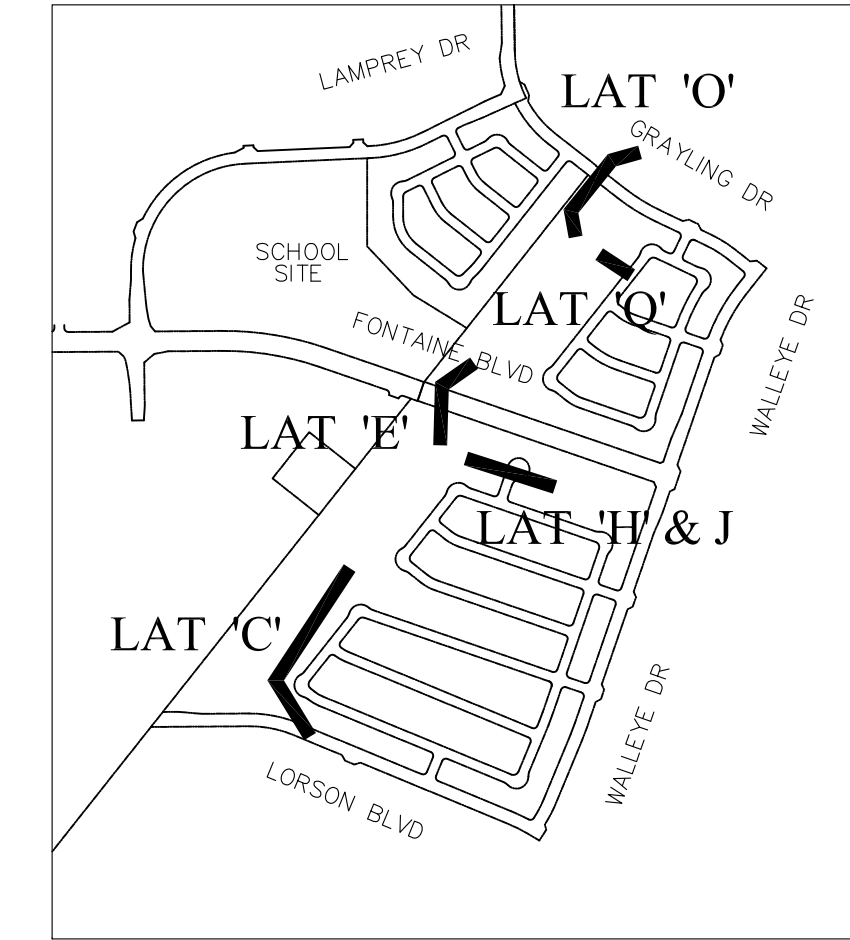
- ① CURVE DATA ID
- ② PEDESTRIAN RAMP, SEE SHEET C10.1
- ③ CURB/GUTTER FLOW LINE POINTS



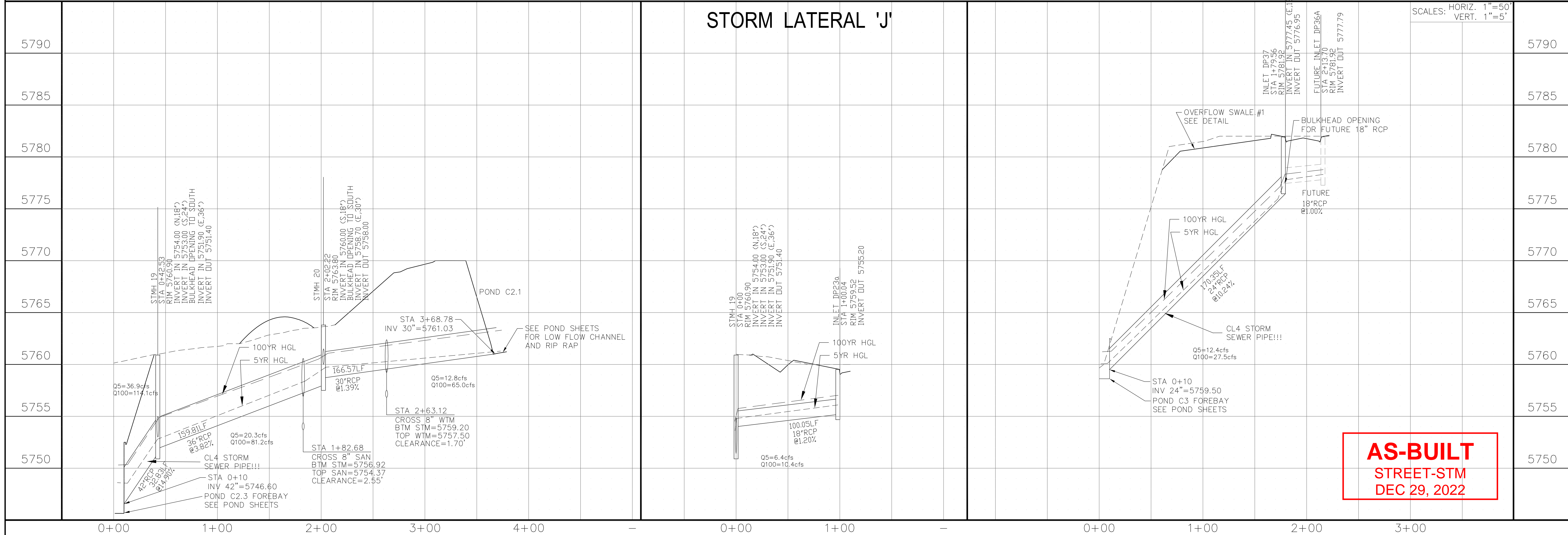
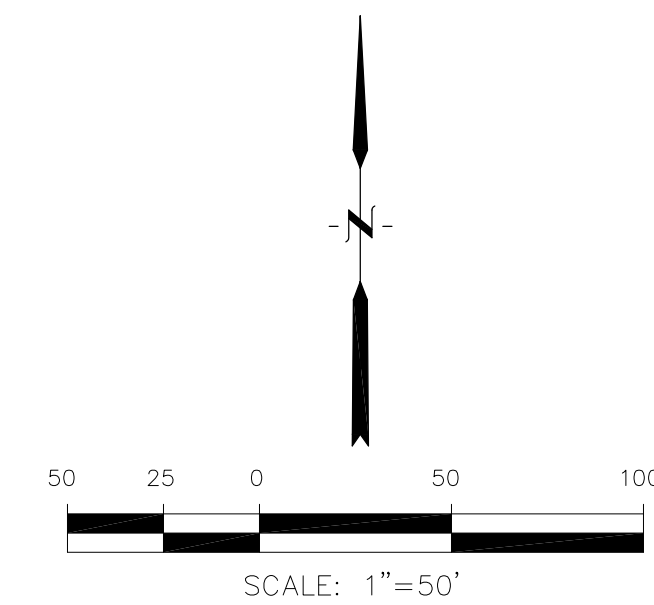
**OVERFLOW SWALE #1  
BIG BIRD DR TO POND C3**



**STORM LATERAL 'Q'**



**KEY MAP**



**STORM LATERAL 'J'**

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

**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 301  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cgl.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
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

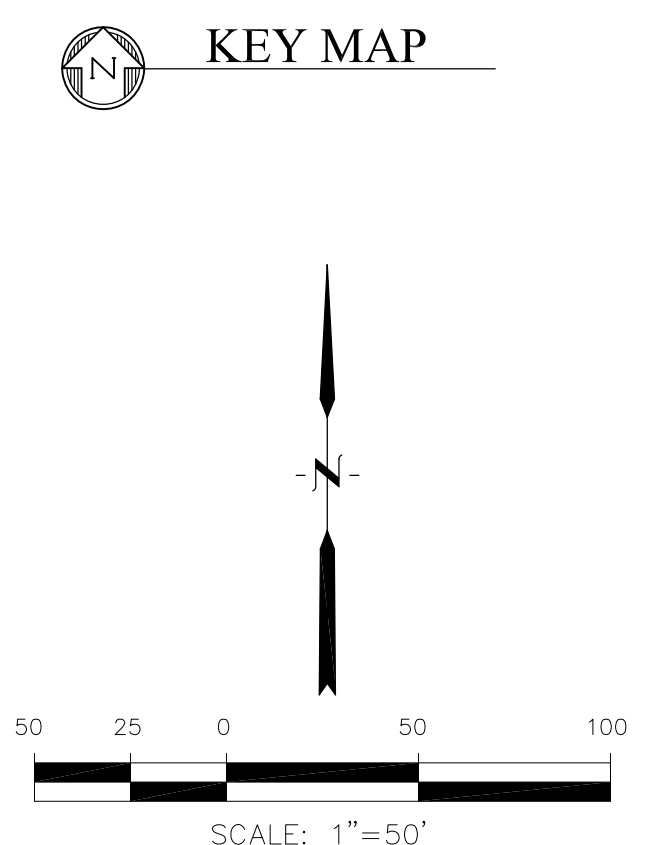
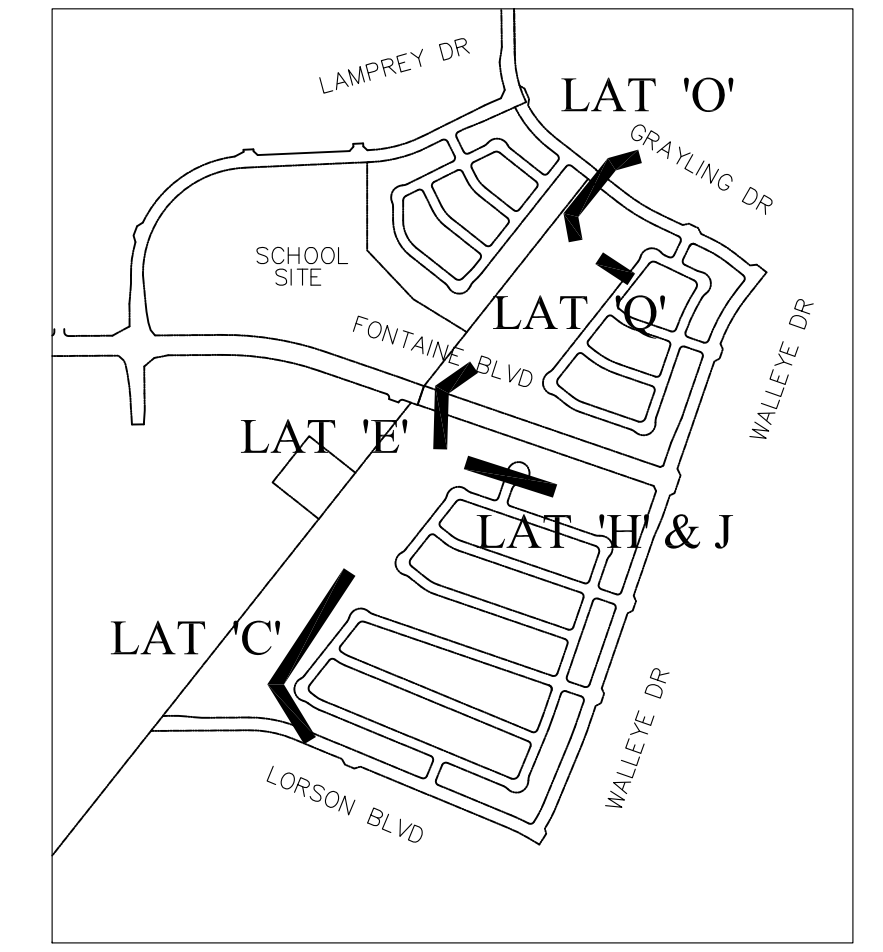
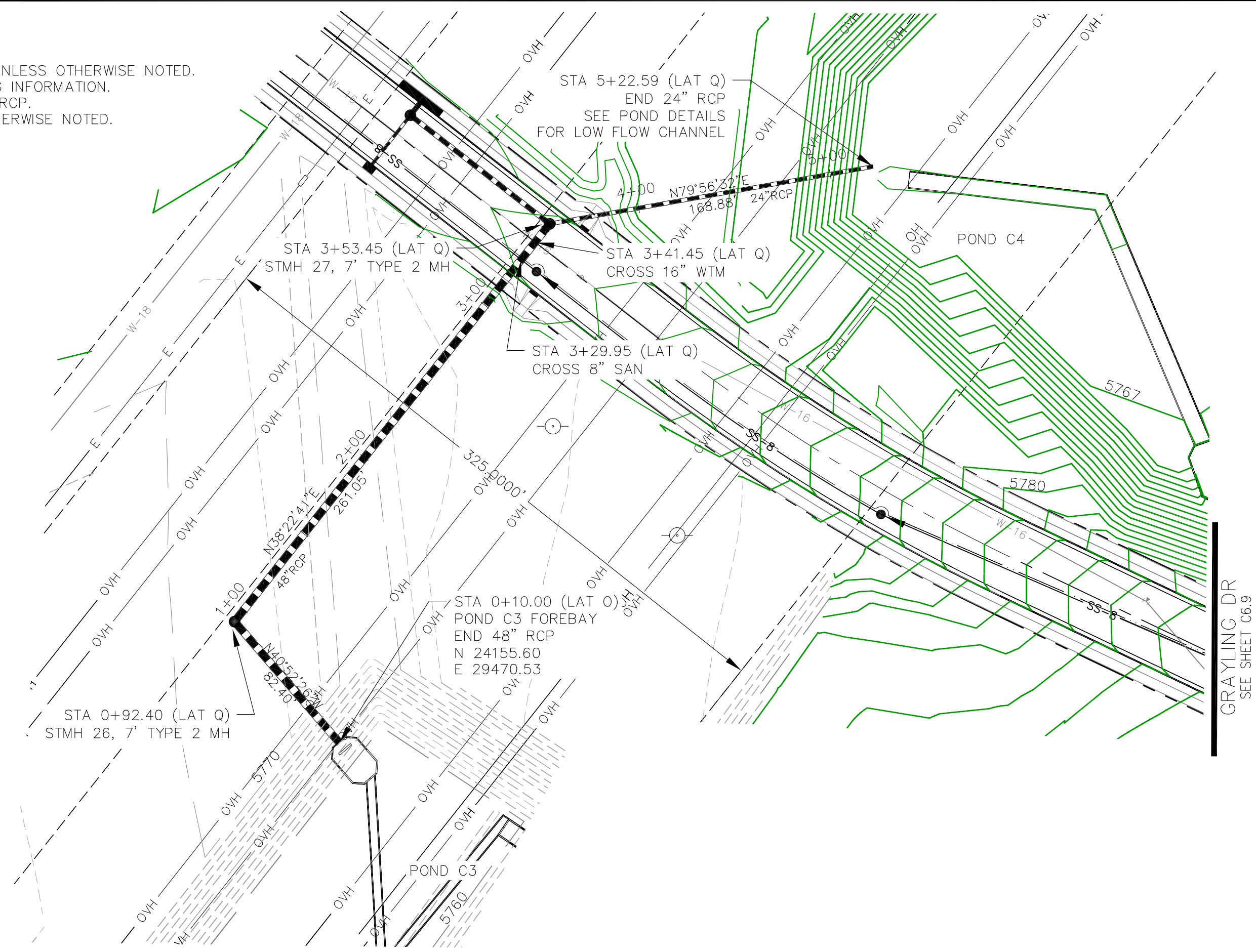
**STREET & STORM SEWER PLAN/PROFILE**  
**STORM LATERAL 'H' & 'J'**  
**STORM LATERAL 'Q'**



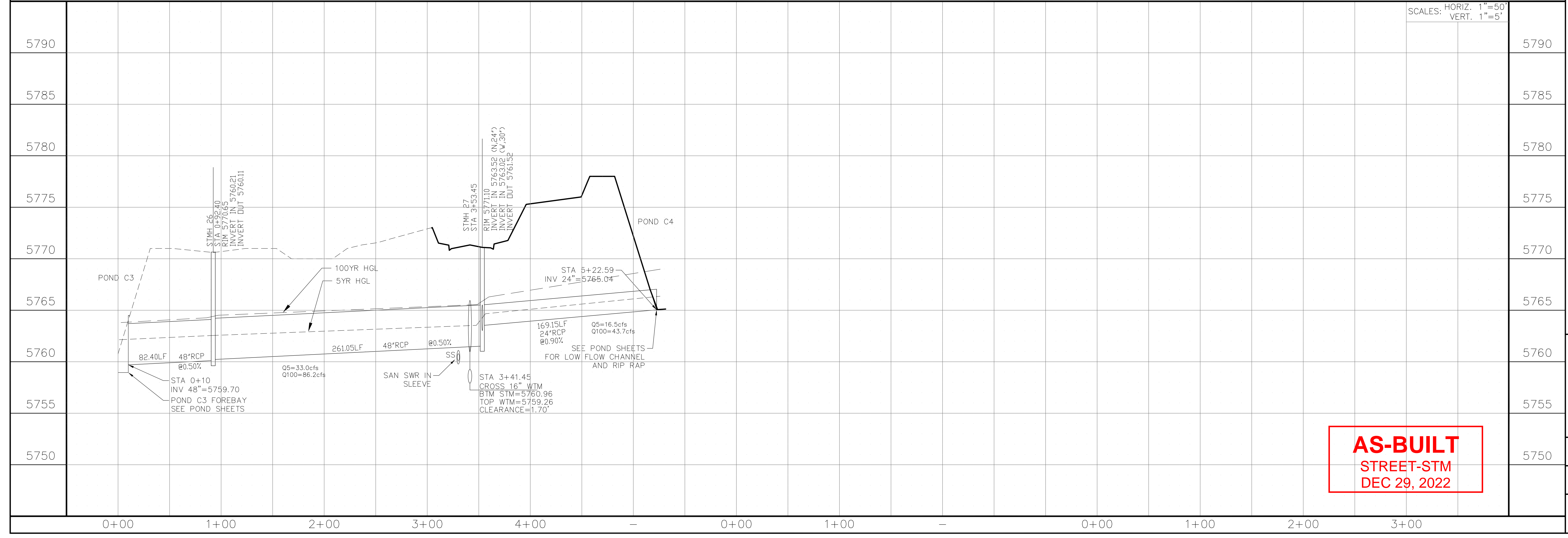
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER **C7.3**  
TOTAL SHEETS: 58

- 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



STORM LATERAL 'O'



**AS-BUILT**  
STREET-STM  
DEC 29, 2022

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
LORSON 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

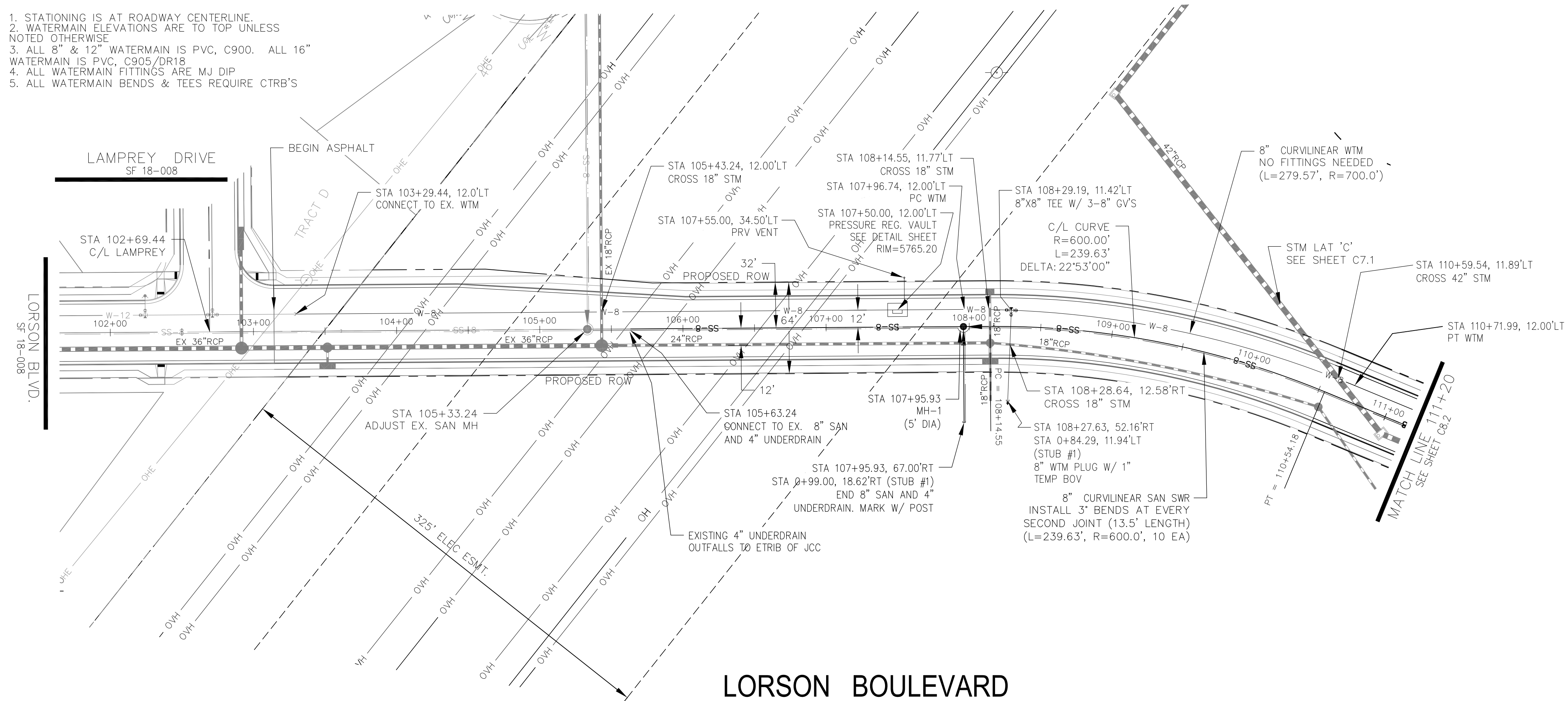
STREET & STORM SEWER PLAN/PROFILE  
STORM LATERAL 'O'



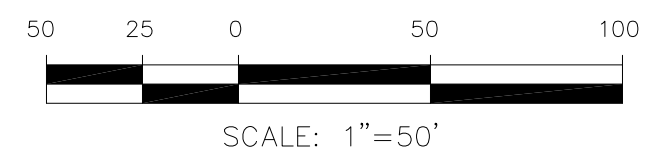
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C7.4  
TOTAL SHEETS: 58

**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
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**LORSON BOULEVARD**

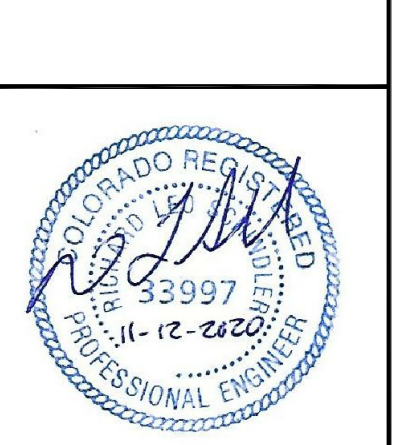


**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 301  
 PLYMOUTH, CO 80453  
 PHONE: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 NO. 1  
 PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 PREPARED FOR: 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

**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 103+00 TO STA 111+20**

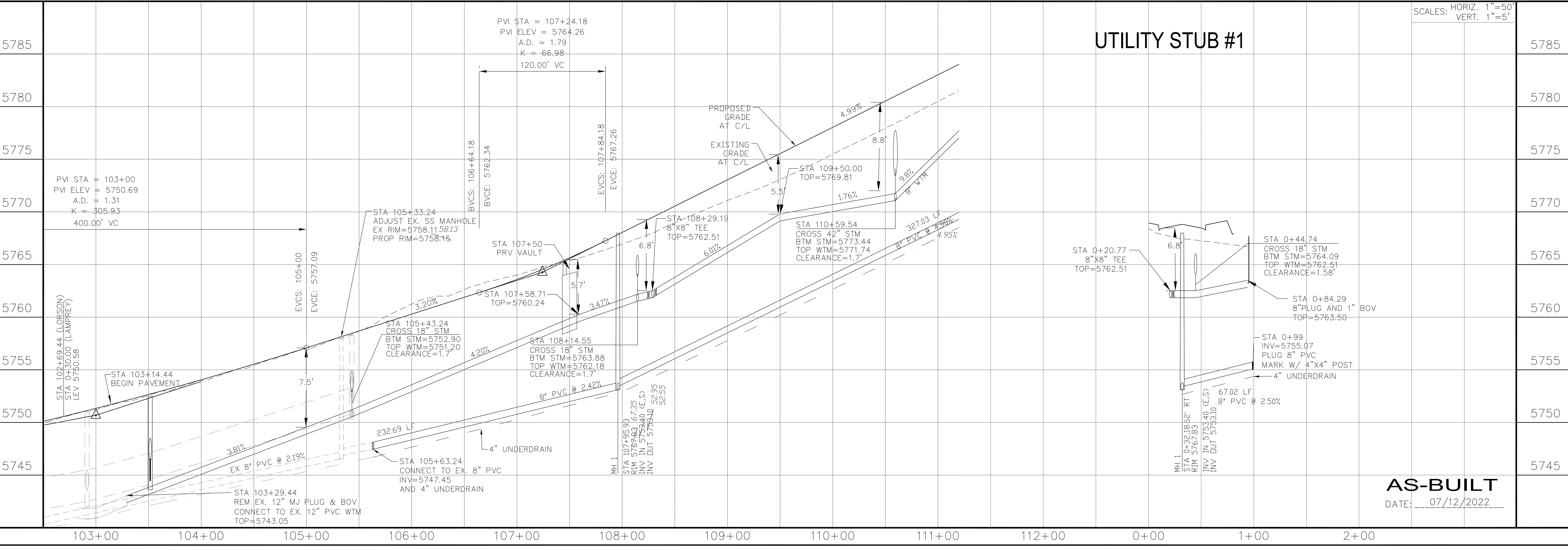


DATE: NOV 12, 2020

PROJECT NO. 100.061

SHEET NUMBER C8.1

TOTAL SHEETS: 58

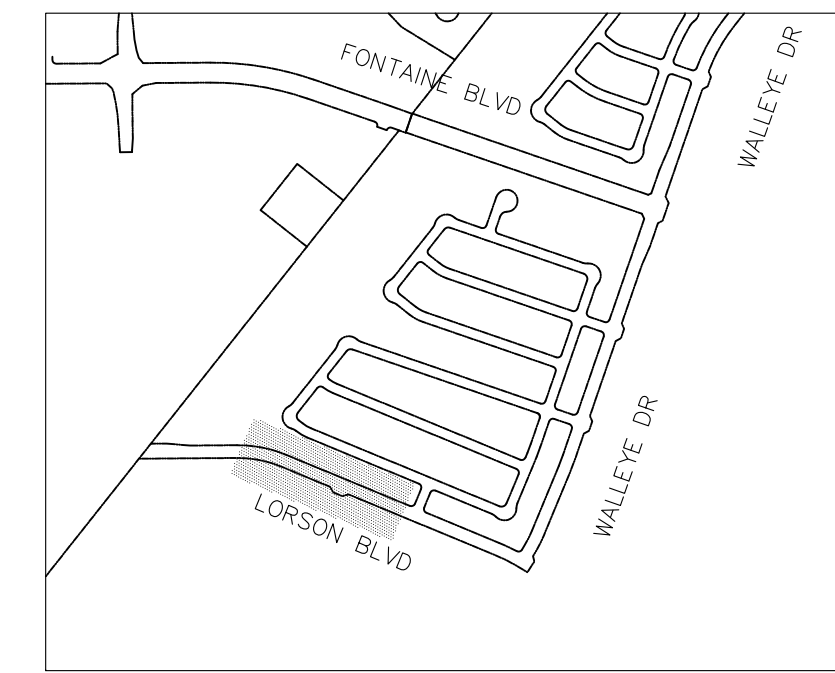
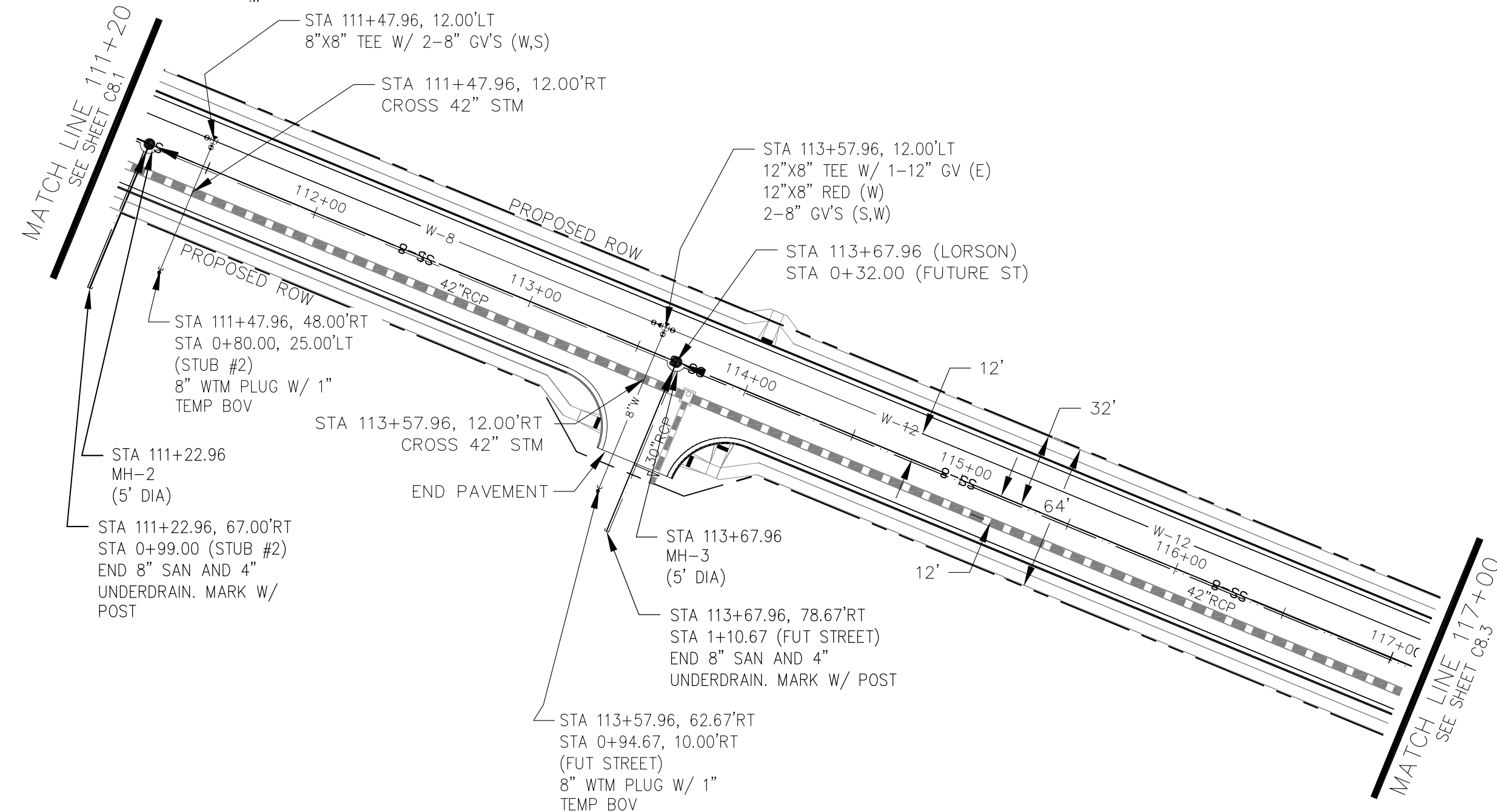


**AS-BUILT**  
 DATE: 07/12/2022

**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**

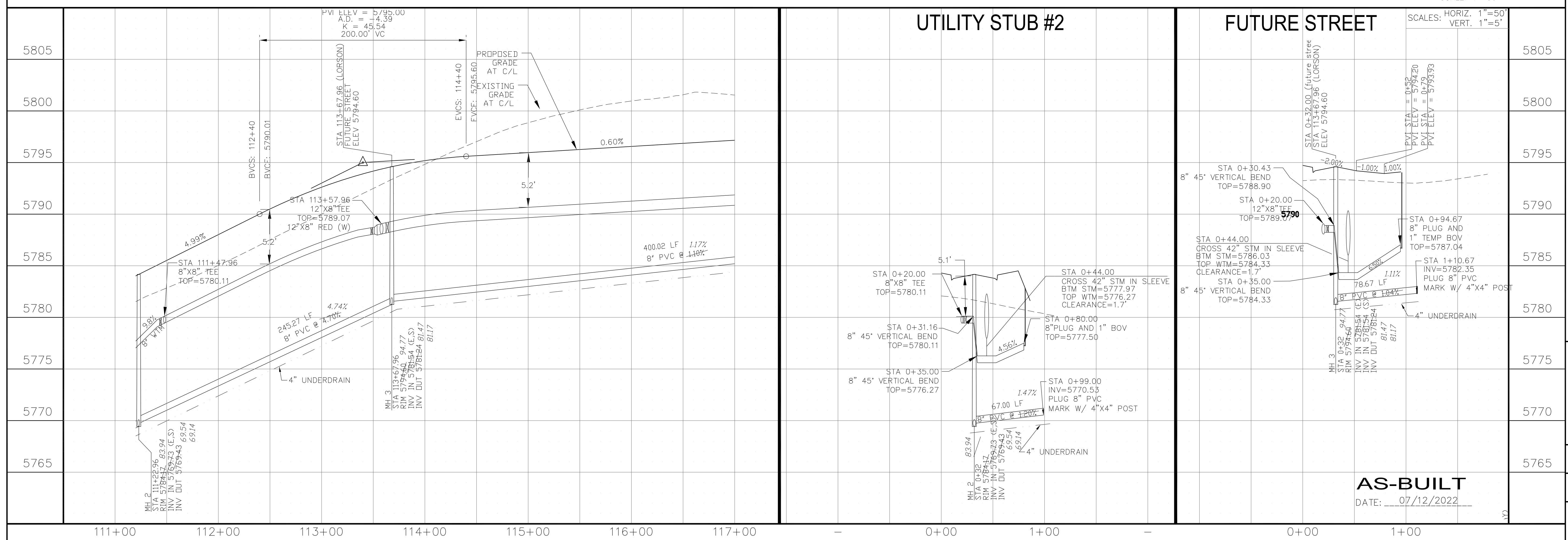


**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 300  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

NO. 1. DATE: JAN 12, 2021  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 PREPARED FOR: THE HILLS COLLECTOR LORSON, LLC  
 PROJECT: STREET CONSTRUCTION  
 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

**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 111+20 TO STA 117+00**

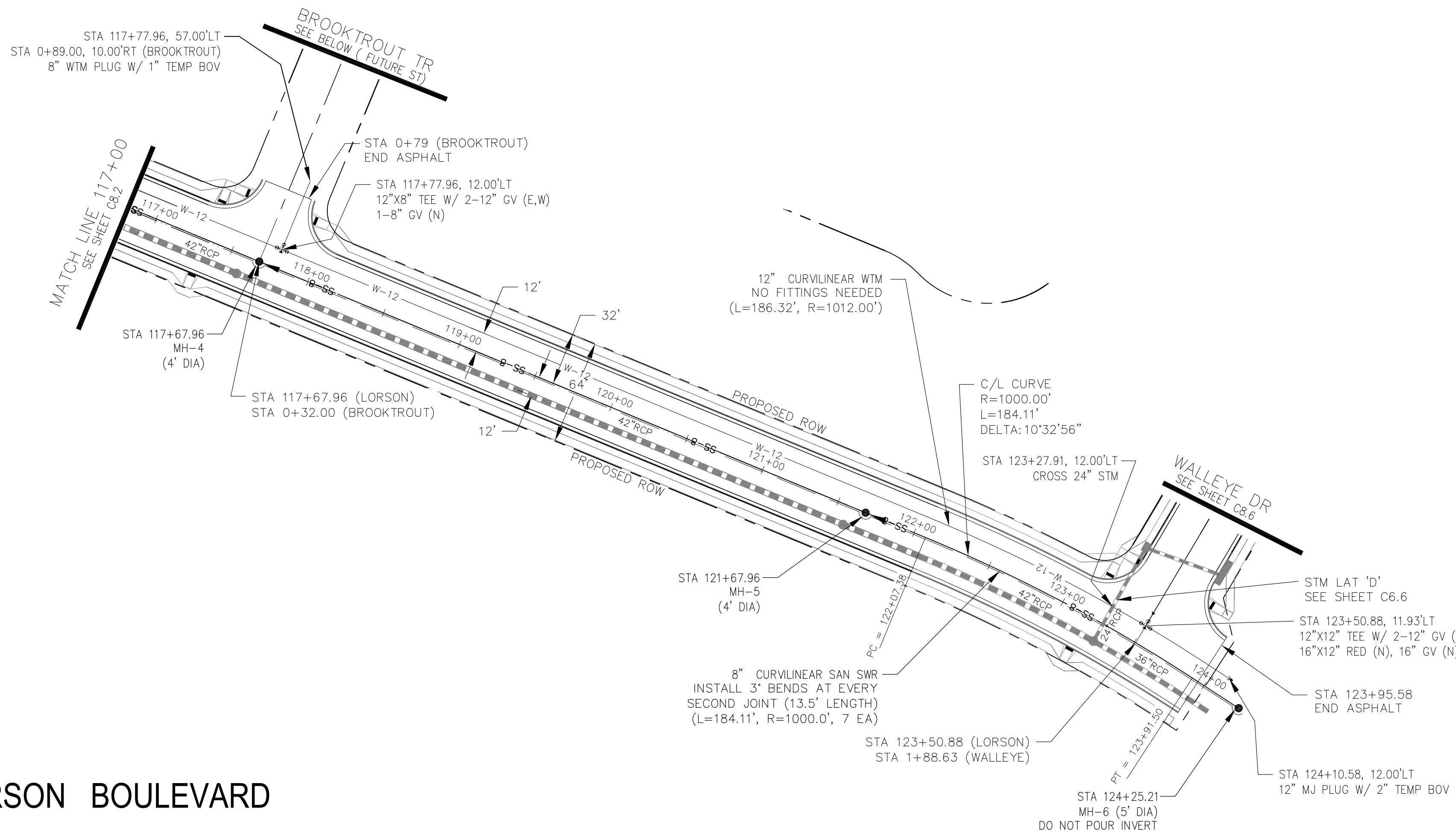


DATE: NOV 12, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C8.2  
 TOTAL SHEETS: 58

**AS-BUILT**  
 DATE: 07/12/2022

**NOTES**

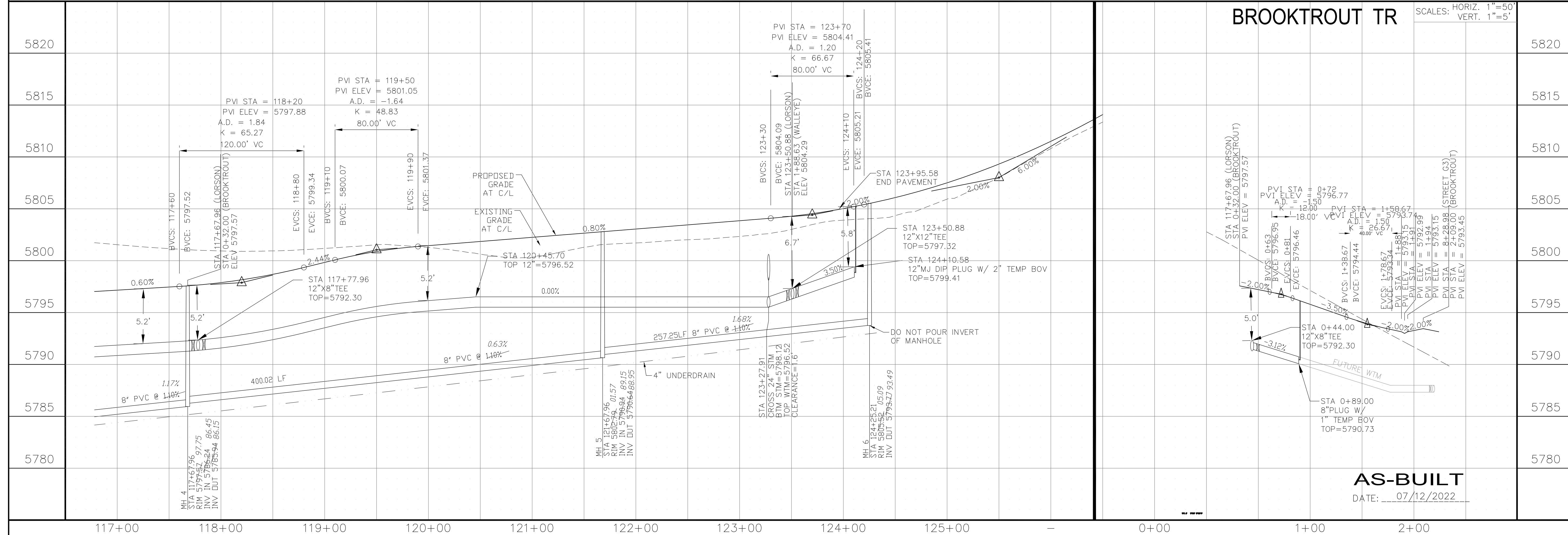
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18.
4. ALL WATERMAIN FITTINGS ARE MJ DIP.
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**LORSON BOULEVARD**

**BROOKTROUT TR**

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



**AS-BUILT**  
DATE: 07/12/2022

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, S.  
DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
FOR: 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

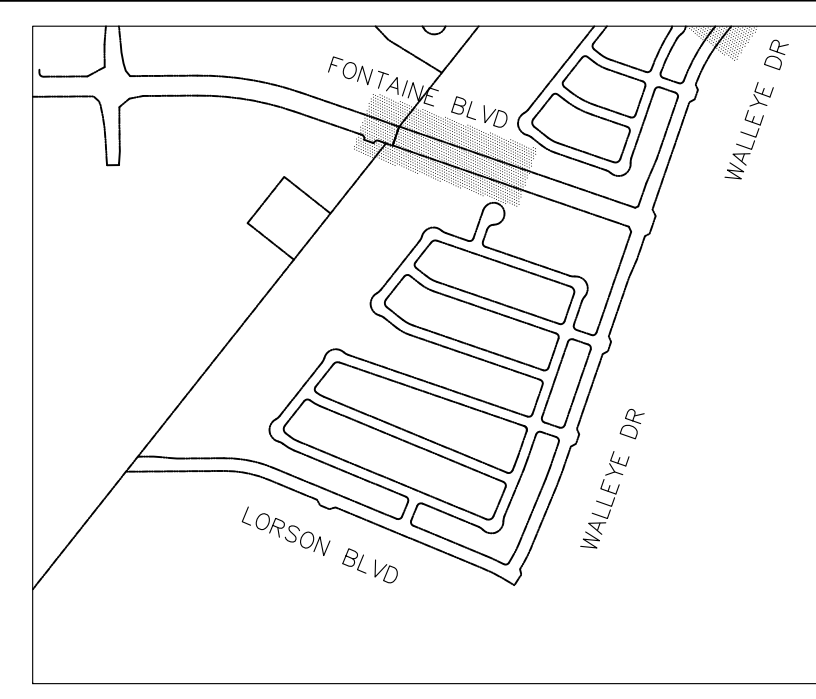
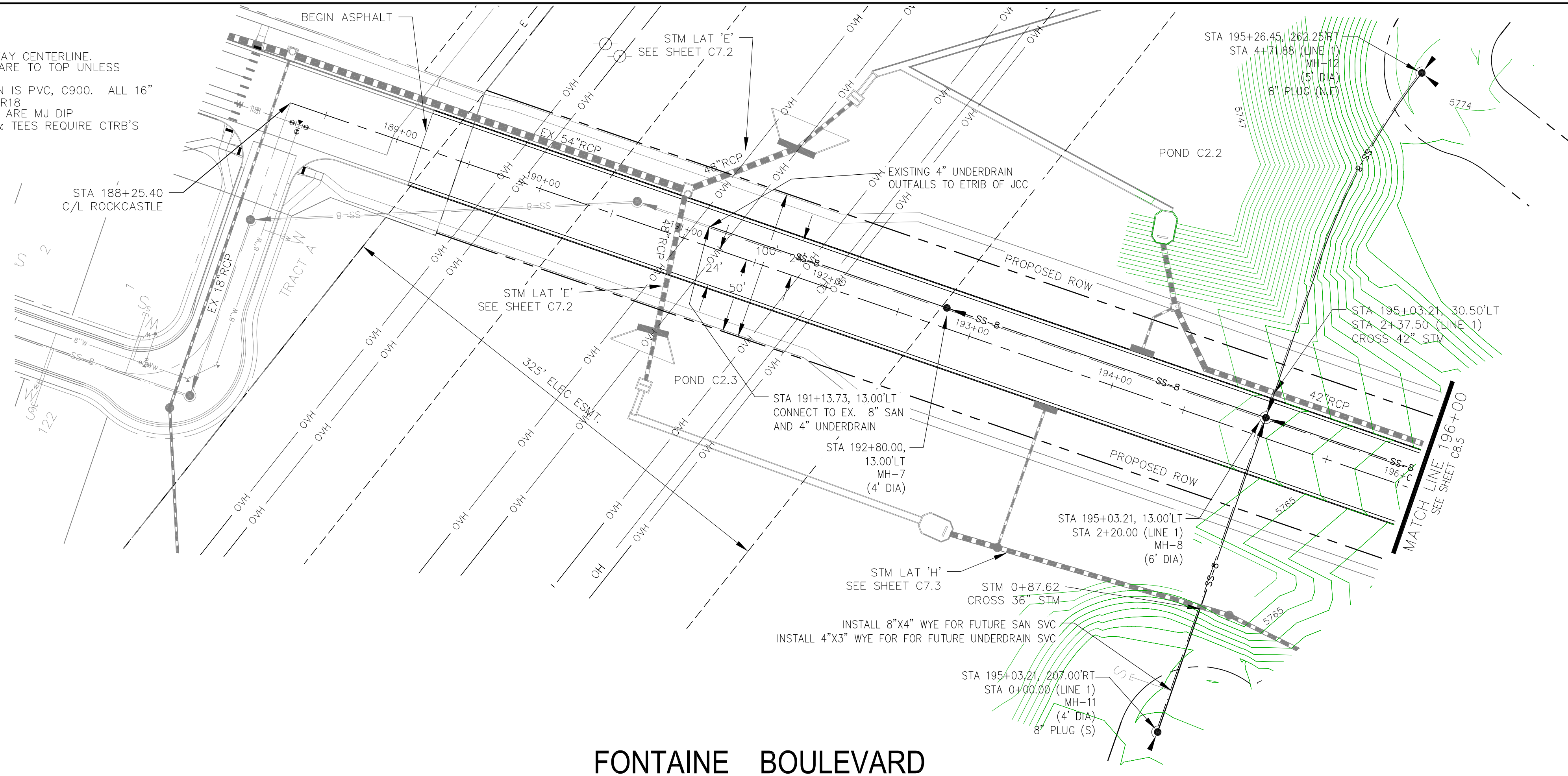
**WTM AND SANITARY PLAN/PROFILE**  
**LORSON BOULEVARD**  
**STA 117+00 TO STA 124+25**



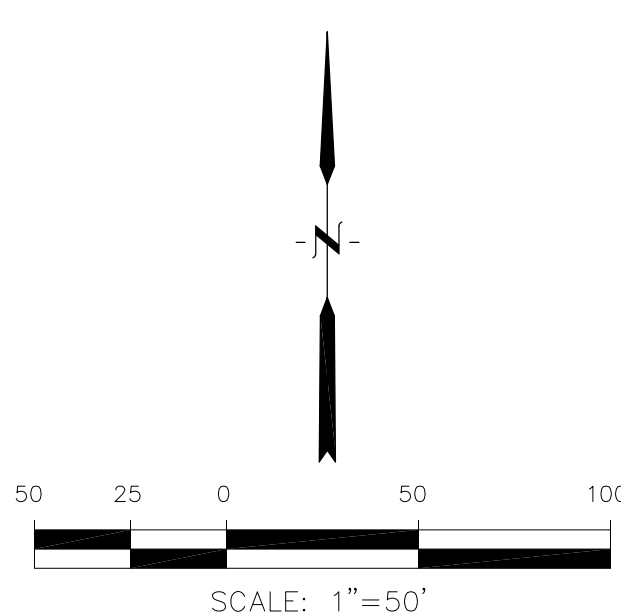
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C8.3  
TOTAL SHEETS: 58

**NOTES**

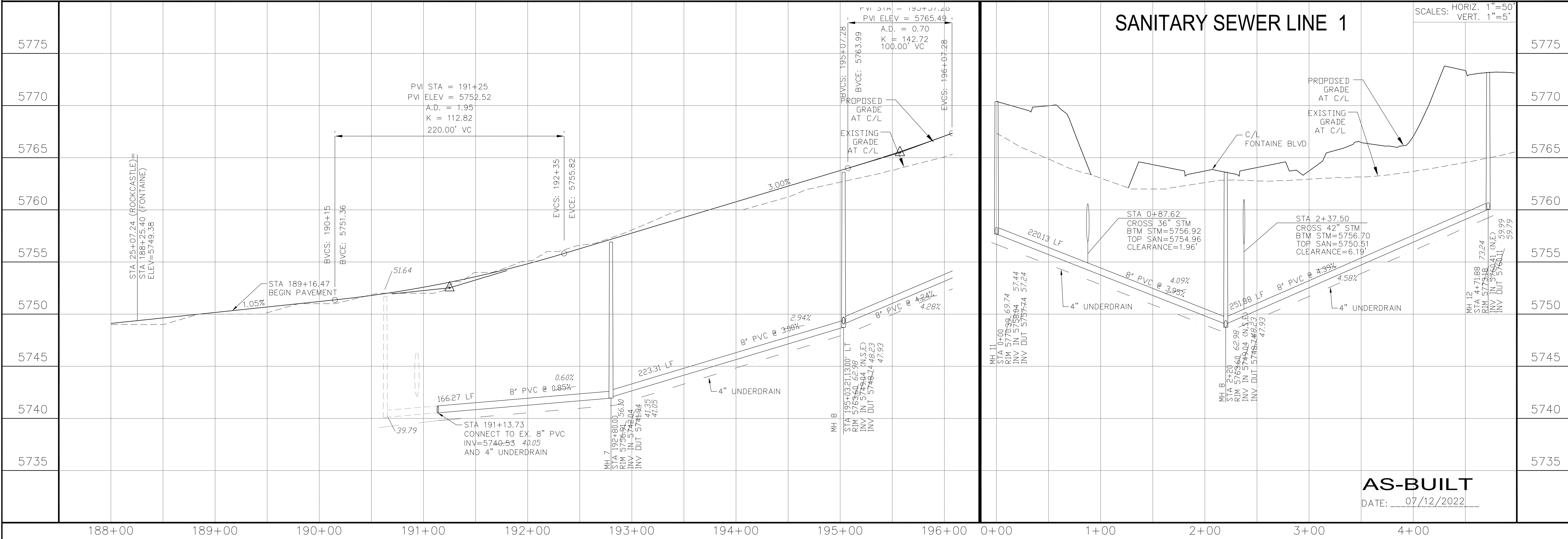
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



KEY MAP



**FONTAINE BOULEVARD**



**SANITARY SEWER LINE 1**

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

**AS-BUILT**  
DATE: 07/12/2022

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE, SUITE 301  
DENVER, CO 80202  
PHONE: 303.750.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1 EAST OF POWERLINES  
NO. 1  
PREPARED FOR: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: RICHARD L. SCHINDLER, P.E.  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

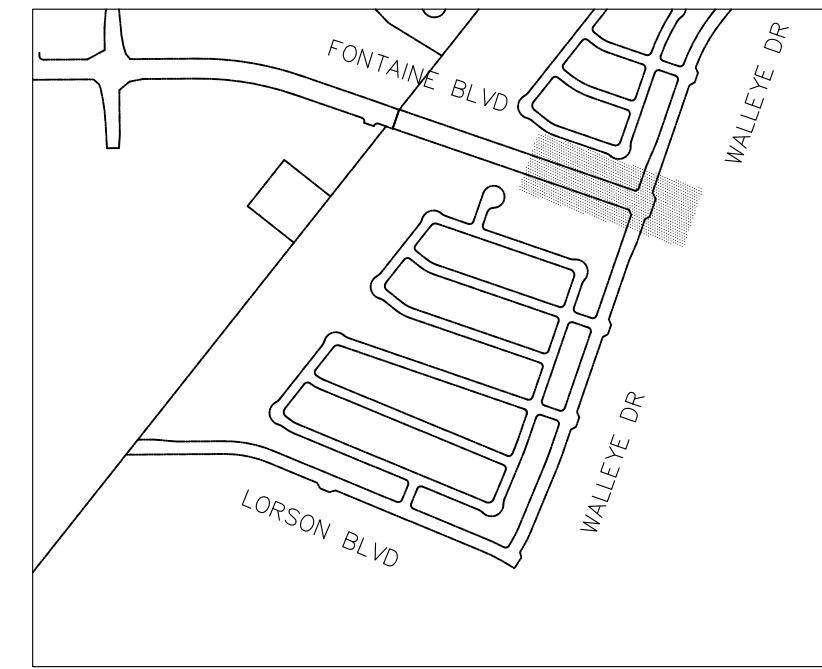
**WTM & SANITARY PLAN/PROFILE**  
**FONTAINE BOULEVARD**  
**STA 189+16 TO STA 196+00**



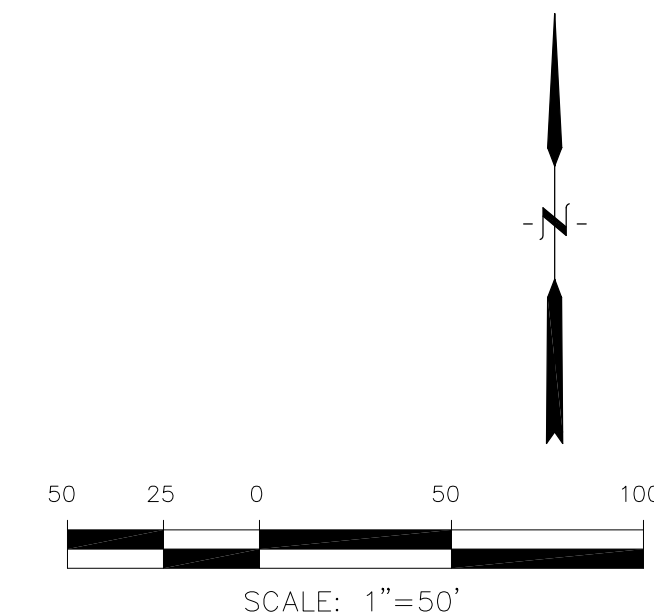
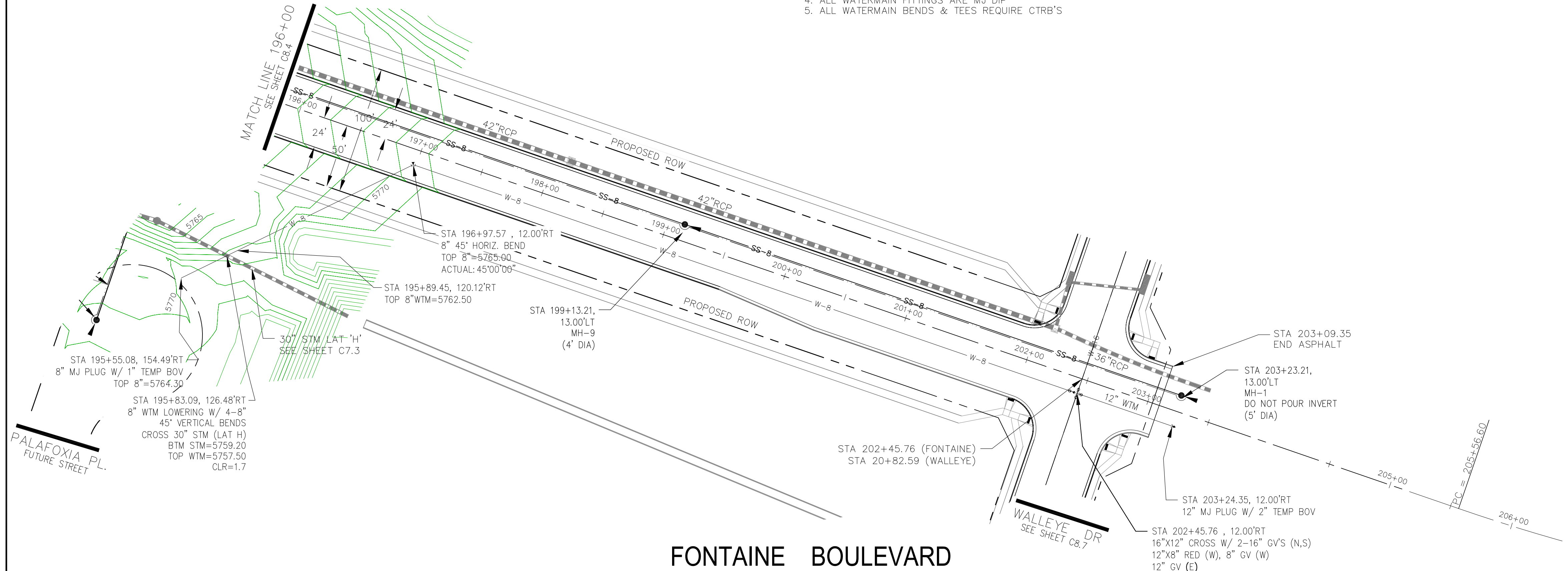
DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER **C8.4**  
TOTAL SHEETS: 58

**NOTES**

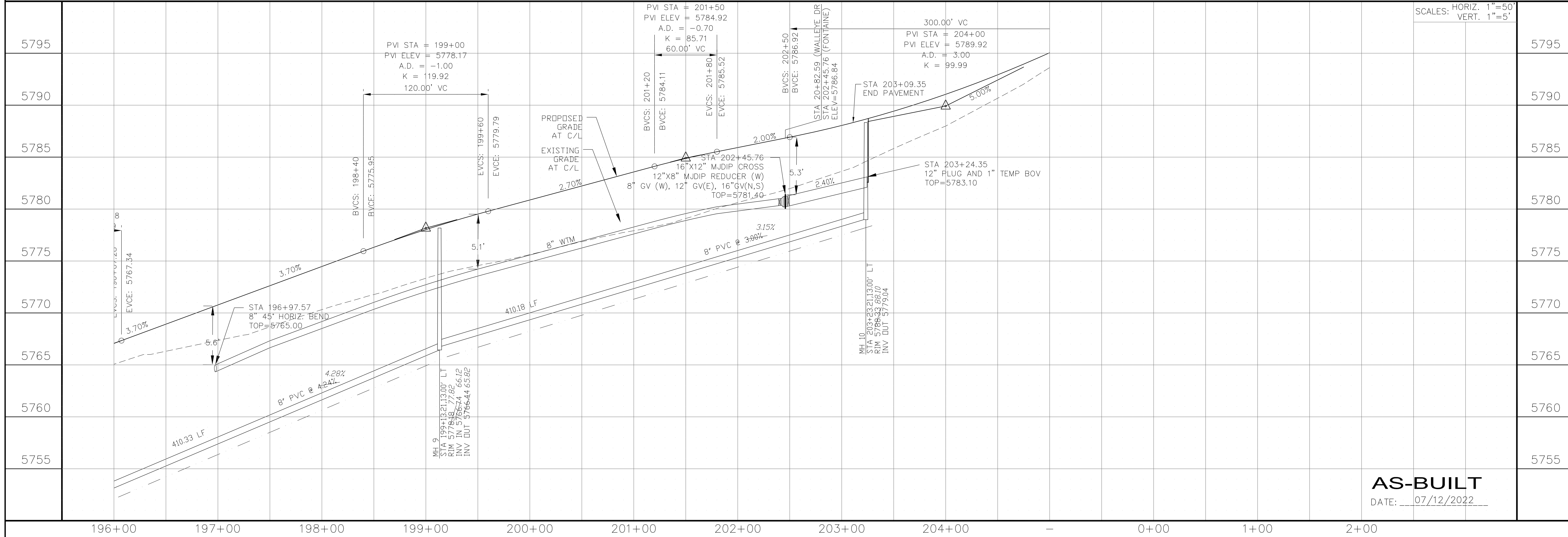
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE.
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18.
4. ALL WATERMAIN FITTINGS ARE MJ DIP.
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



KEY MAP



**FONTAINE BOULEVARD**



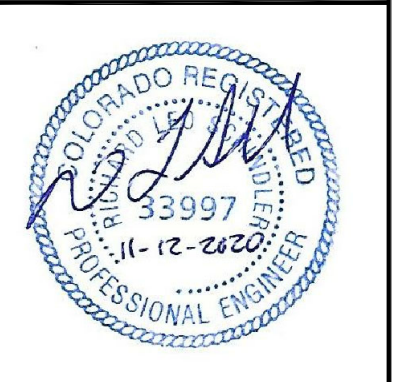
SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, SUITE 301  
DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
FOR: 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

**WTM AND SANITARY PLAN/PROFILE**  
**FONTAINE BOULEVARD**  
**STA 196+00 TO STA 203+25**



DATE: NOV 12, 2020

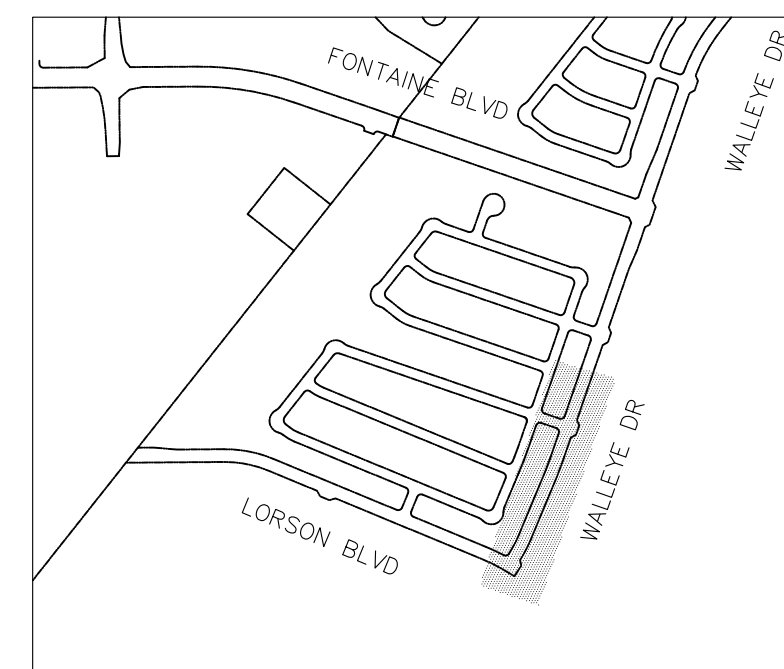
PROJECT NO. 100.061

SHEET NUMBER **C8.5**

**AS-BUILT**  
DATE: 07/12/2022

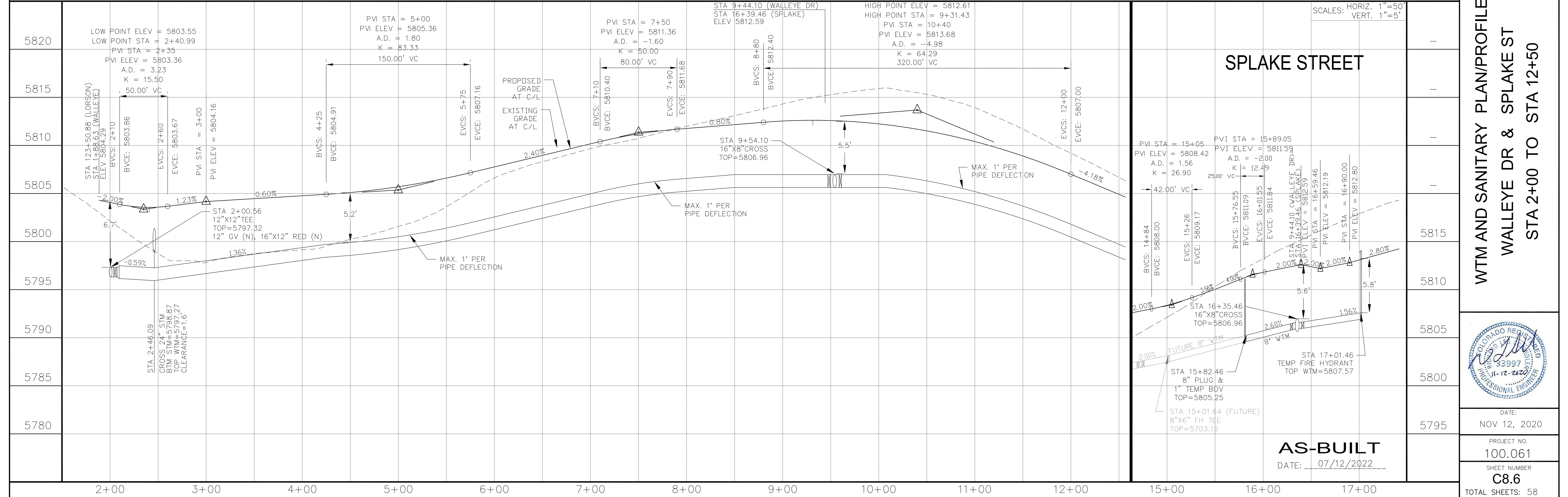
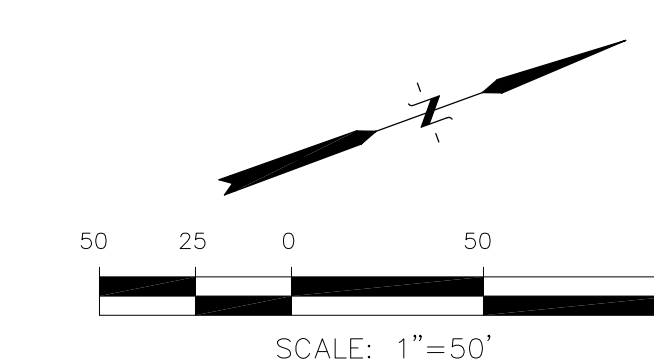
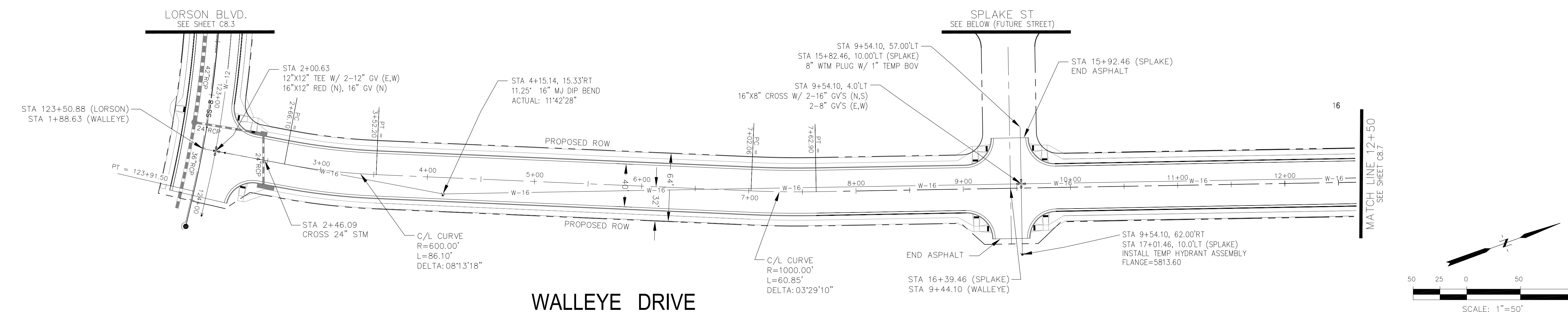
**NOTES**

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

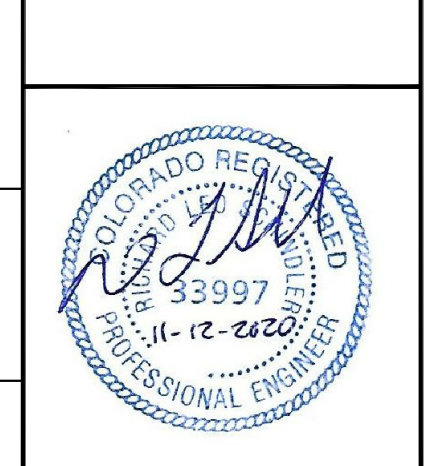


**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE S.  
 P.O. BOX 5506  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
 NO. 1. RAISE SITE 1' EAST OF POWERLINES  
 DESCRIPTION: WTM AND SANITARY PLAN/PROFILE  
 PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 PREPARED FOR: LORSON, LLC  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK



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



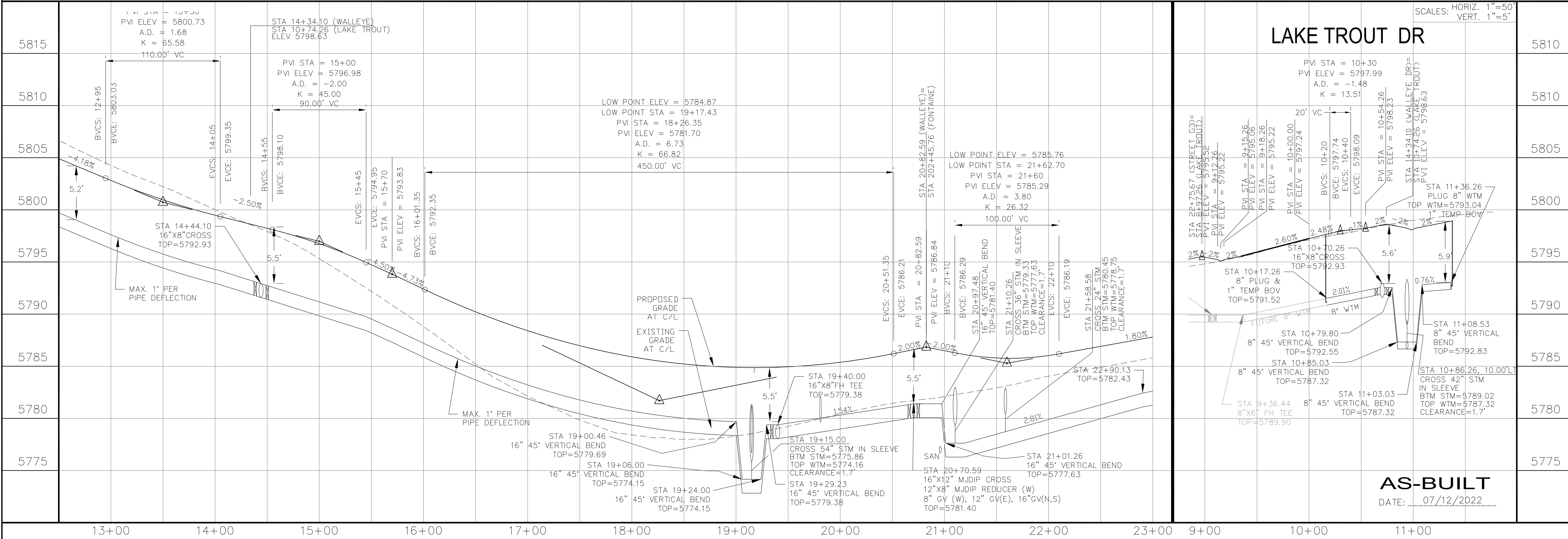
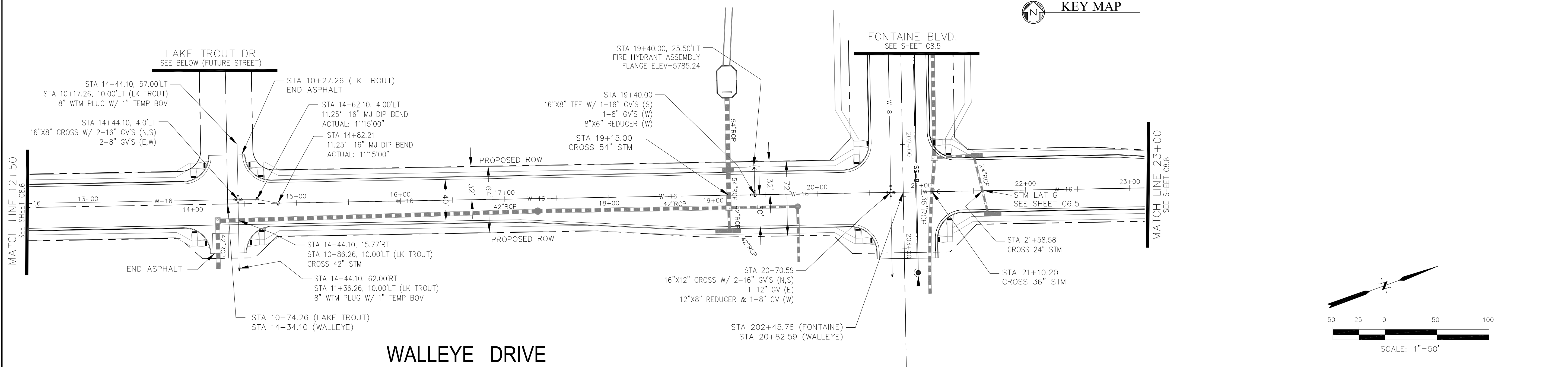
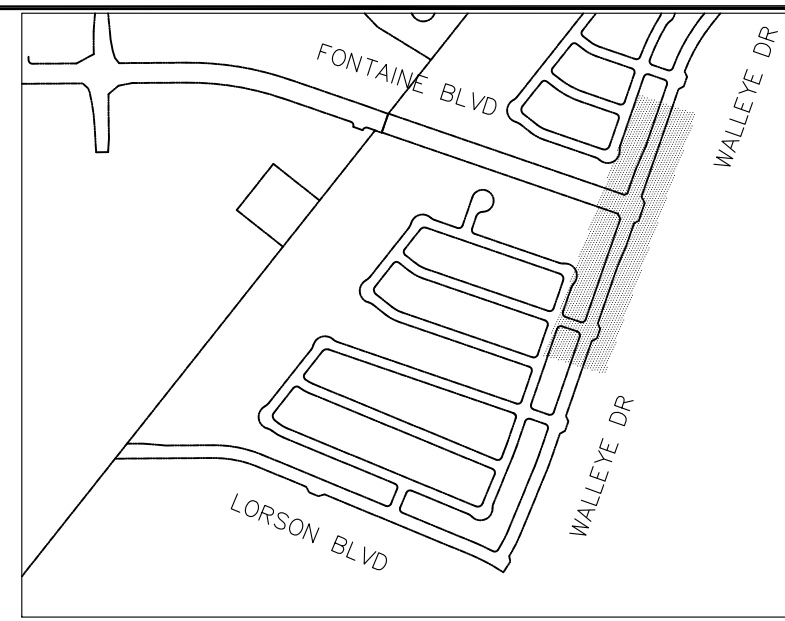
DATE: NOV 12, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C8.6  
 TOTAL SHEETS: 58

**AS-BUILT**  
 DATE: 07/12/2022



**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

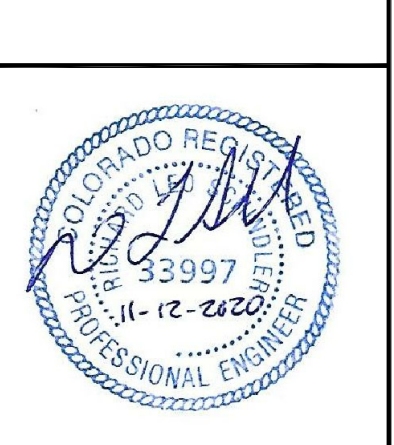


**CORE ENGINEERING GROUP**  
 15004 151<sup>ST</sup> AVENUE, SUITE 301  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
 NO. 1  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
 PREPARED FOR: 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

**WTM AND SANITARY PLAN/PROFILE**  
**WALLEYE DR & LAKE TROUT DR**  
**STA 12+50 TO STA 23+00**

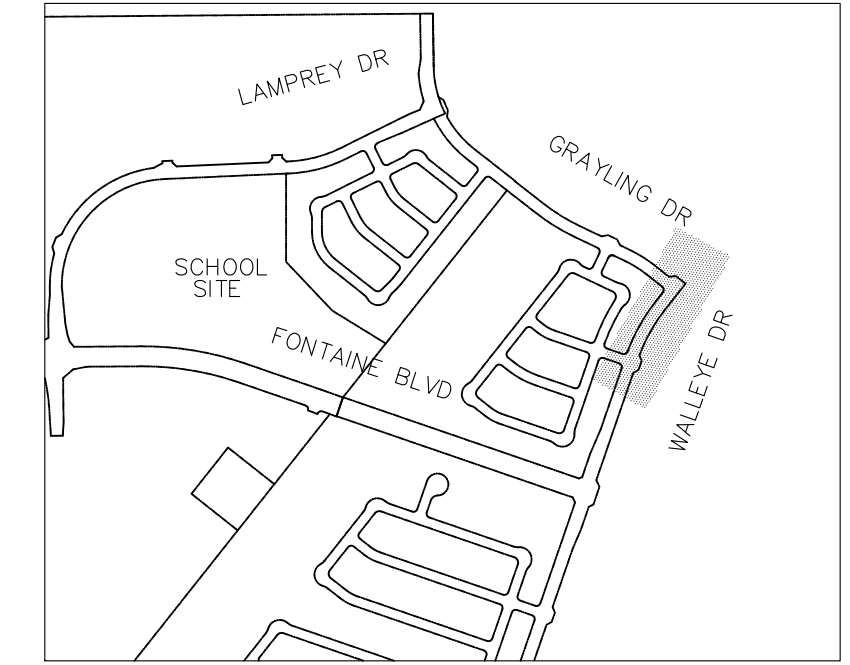


DATE: NOV 12, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER C8.7  
 TOTAL SHEETS: 58

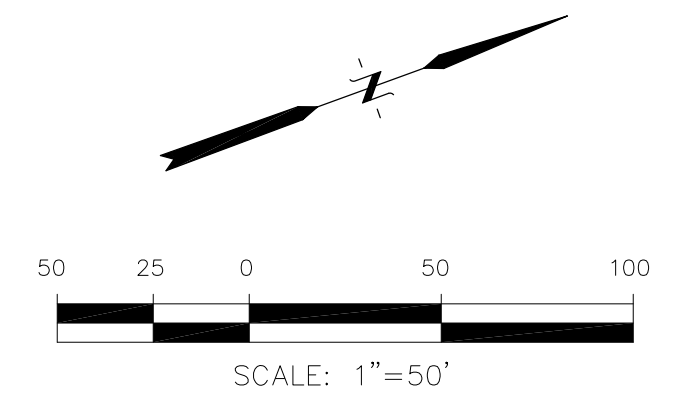
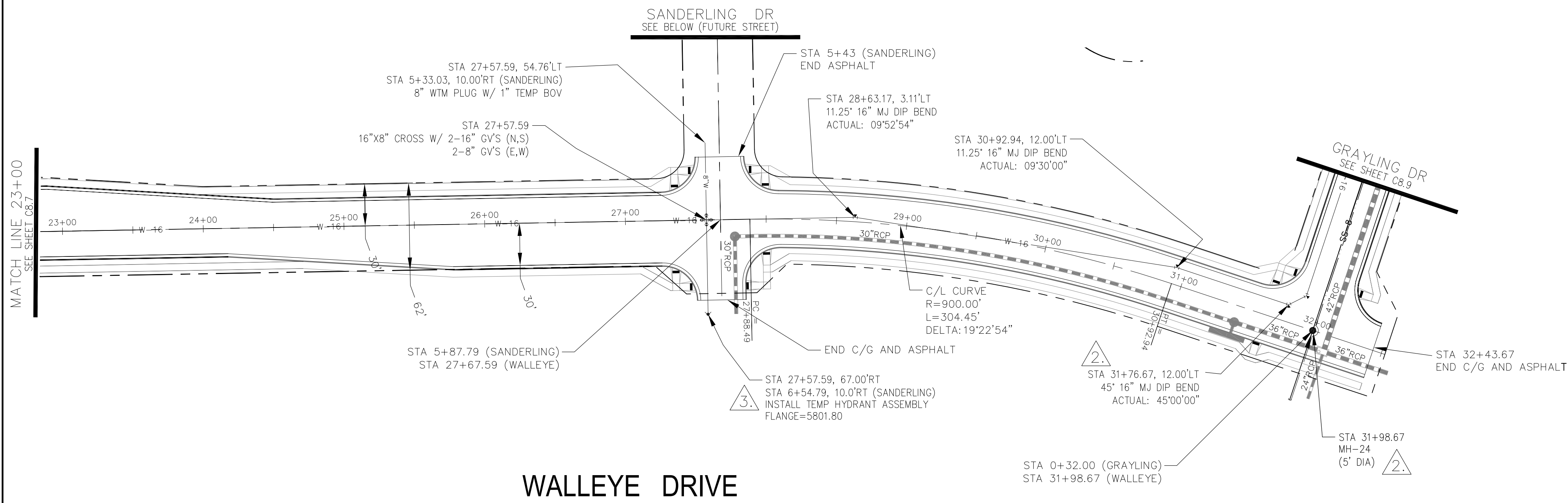
**AS-BUILT**  
 DATE: 07/12/2022

**NOTES**

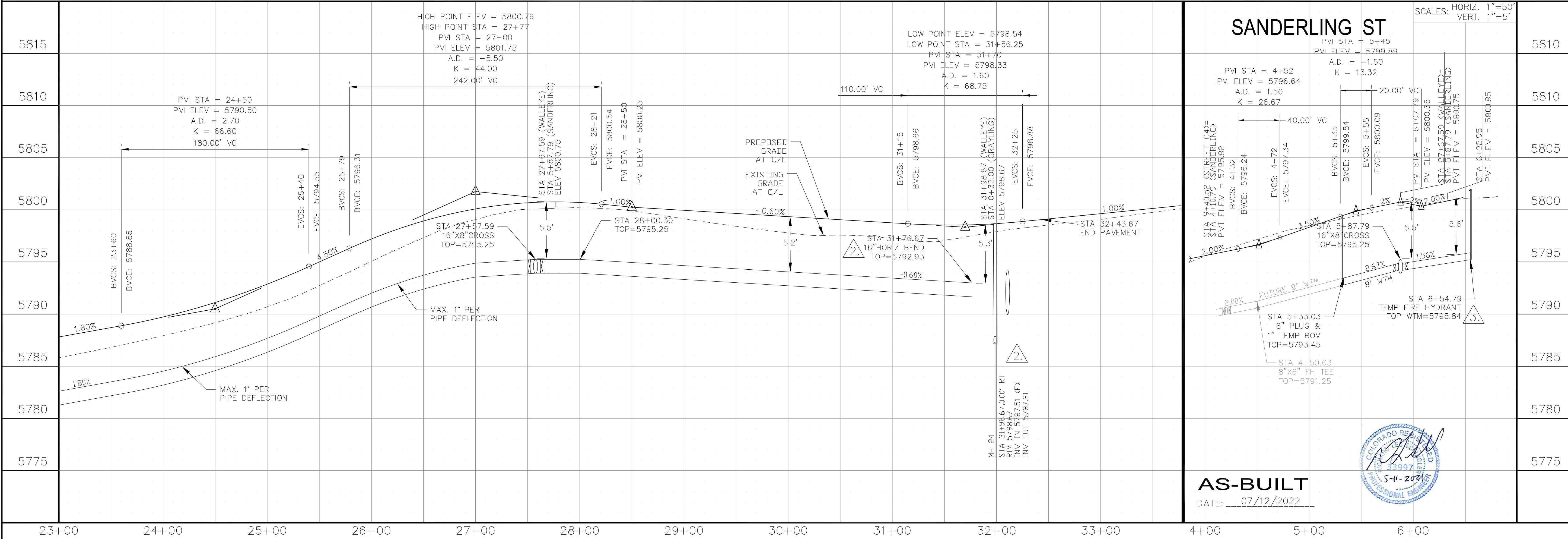
1. STATIONING IS AT ROADWAY CENTERLINE.
2. WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
3. ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**KEY MAP**



**WALLEYE DRIVE**



**SANDERLING ST**

PVI STA = 4+52  
 PVI ELEV = 5796.64  
 A.D. = 1.50  
 K = 26.67

PVI STA = 3+45  
 PVI ELEV = 5799.89  
 A.D. = -1.50  
 K = 13.32

PVI STA = 4+52  
 PVI ELEV = 5795.82  
 A.D. = 1.50  
 K = 26.67

PVI STA = 5+55  
 PVI ELEV = 5800.09  
 A.D. = 1.50  
 K = 26.67

PVI STA = 6+07.79  
 PVI ELEV = 5800.35  
 A.D. = 1.50  
 K = 26.67

PVI STA = 5+87.79  
 PVI ELEV = 5795.25  
 A.D. = 1.50  
 K = 26.67

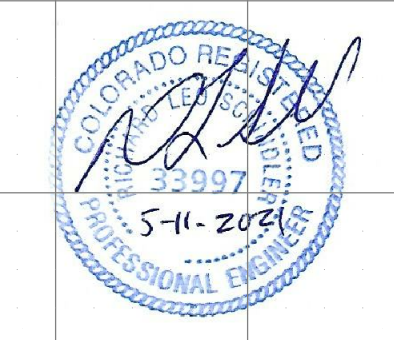
PVI STA = 4+50.03  
 PVI ELEV = 5791.25  
 A.D. = 1.50  
 K = 26.67

PVI STA = 6+54.79  
 PVI ELEV = 5795.84  
 A.D. = 1.50  
 K = 26.67

PVI STA = 6+32.95  
 PVI ELEV = 5800.85  
 A.D. = 1.50  
 K = 26.67

PVI STA = 6+32.95  
 PVI ELEV = 5800.85  
 A.D. = 1.50  
 K = 26.67

**AS-BUILT**  
 DATE: 07/12/2022



**CORE ENGINEERING GROUP**  
 15004 151st AVENUE S.  
 FORT COLLINS, CO 80506  
 PH: 970.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cgei.com

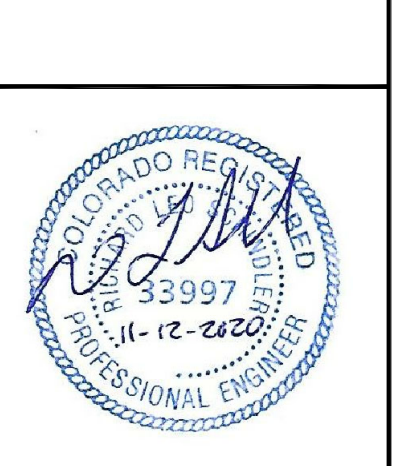
DATE: JAN 12, 2021  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 NO. 1. WTM & SAN CHANGE AT GRAYLING  
 2. WTM CHANGE AT WALLEYE/SANDERLING  
 3. WTM CHANGE AT WALLEYE/SANDERLING

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

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



DATE: NOV 12, 2020

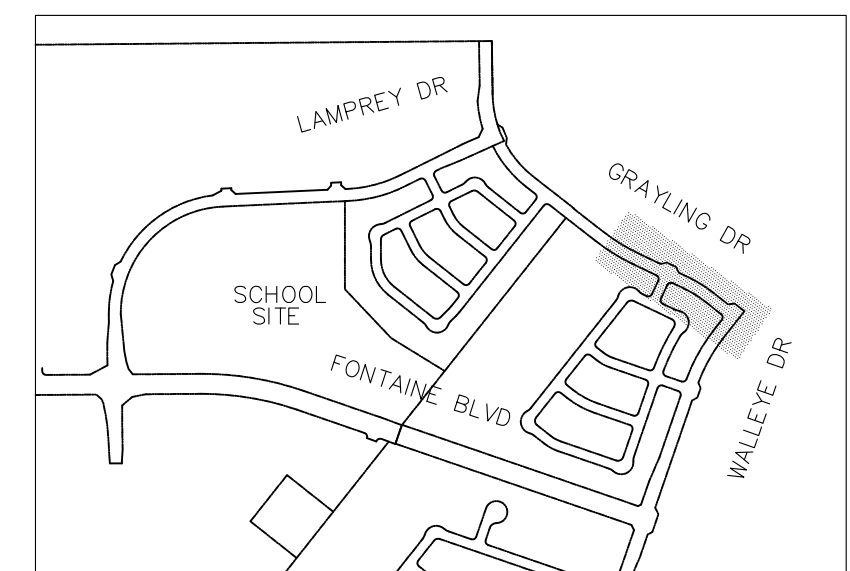
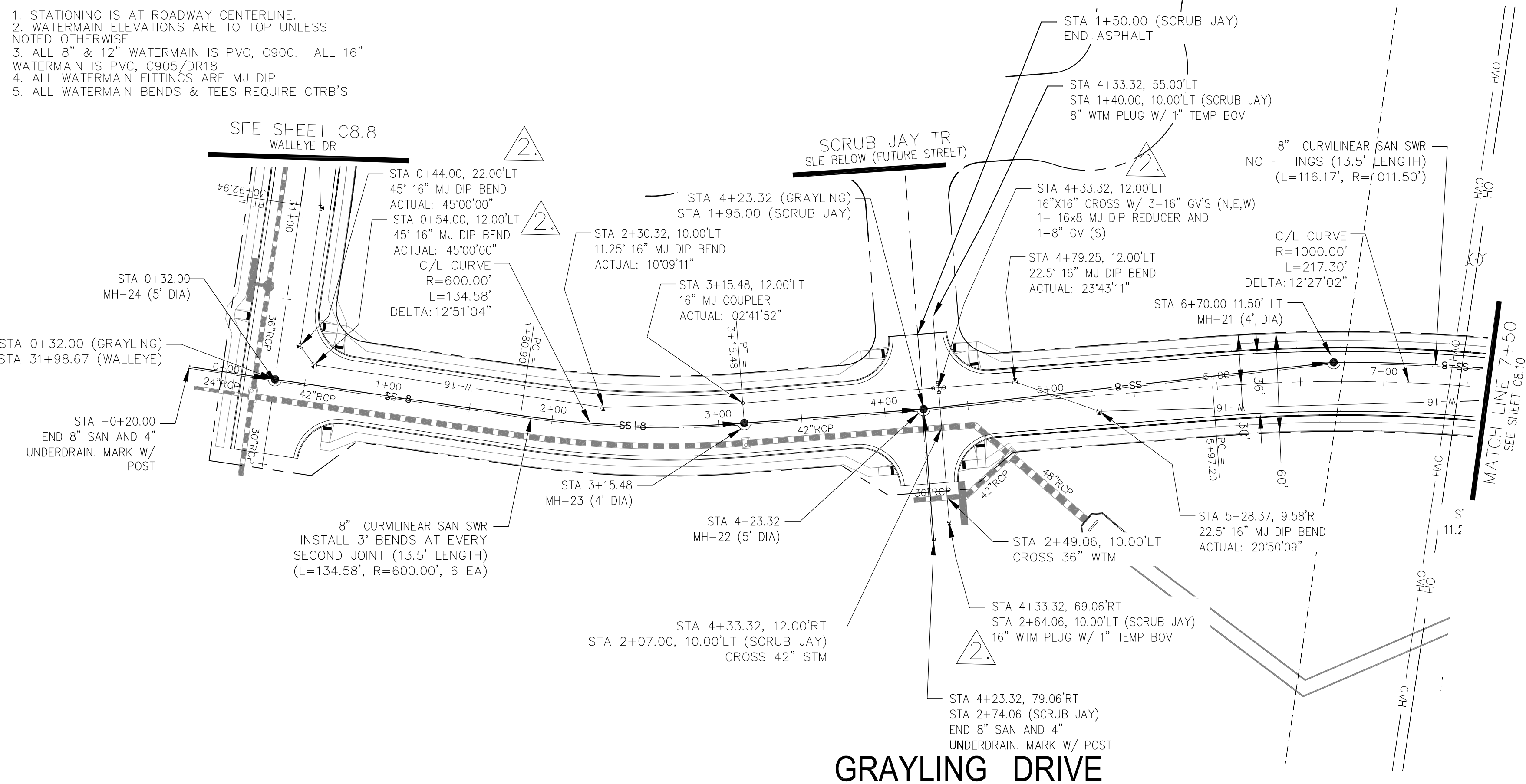
PROJECT NO. 100.061

SHEET NUMBER **C8.8**

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.
4. ALL WATERMAIN FITTINGS ARE MJ DIP.
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



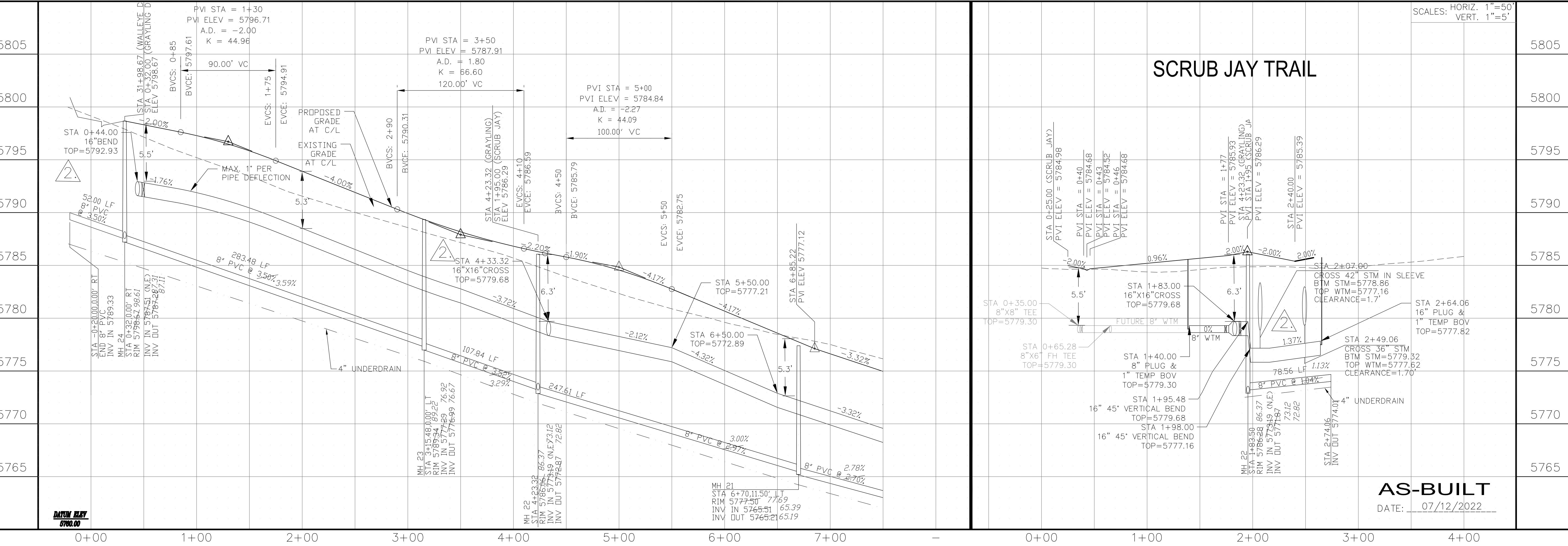
**CORE ENGINEERING GROUP**  
 15004 151st Avenue S.  
 Englewood, CO 80150  
 PH: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cge1.com

NO. 1. RAISE SITE 1' EAST OF POWERLINES  
 2. WTM CHANGE AT SCRUB JAY AND WALLEYE

DATE: JAN 12, 2021  
 FEB 25, 2021

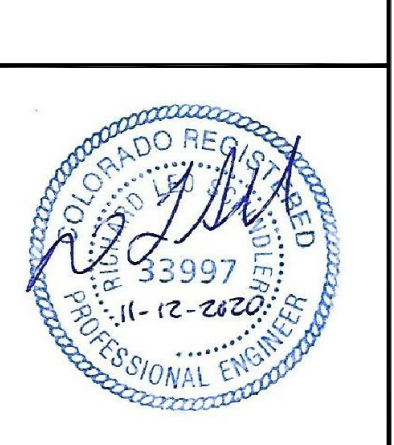
PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

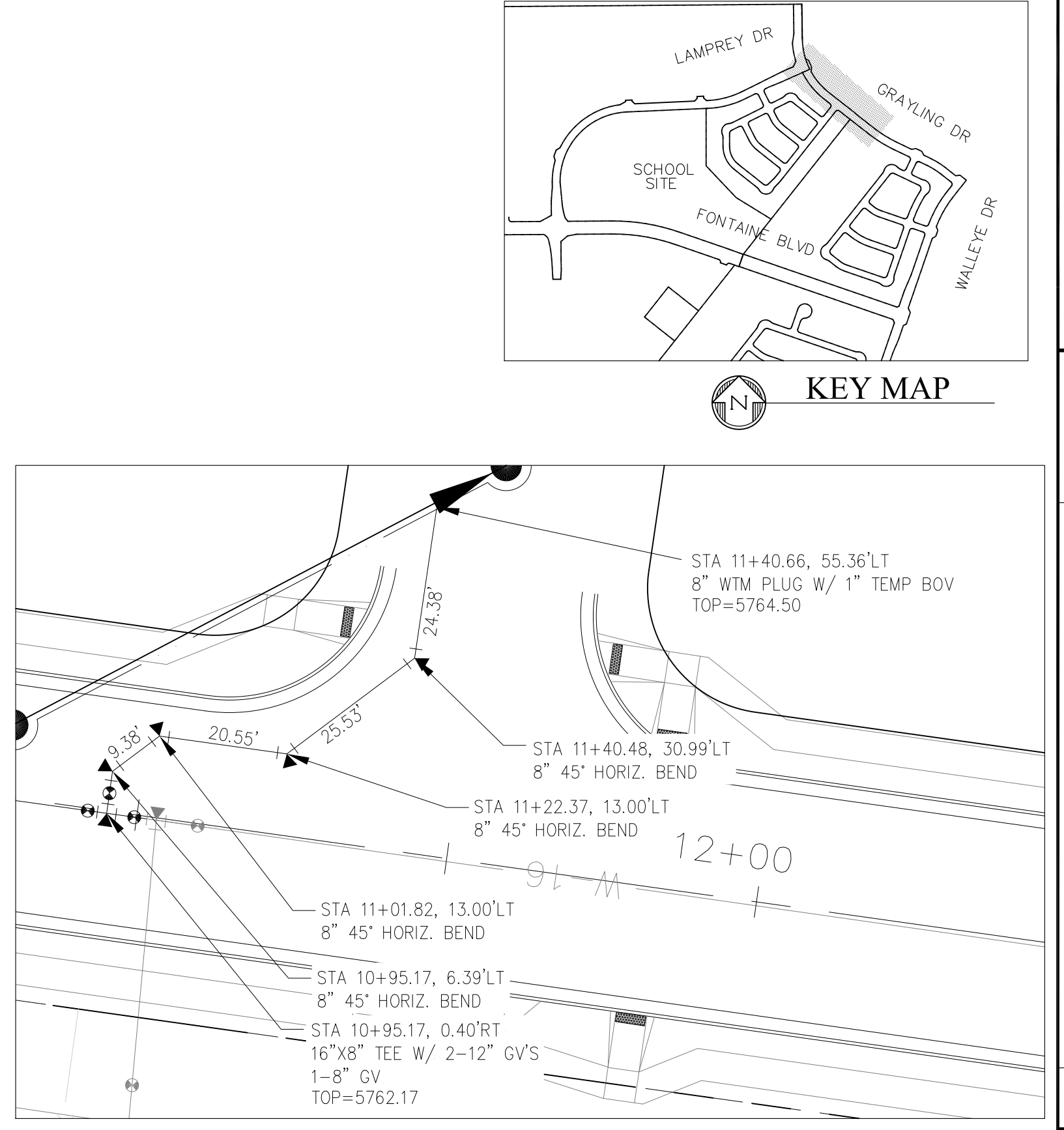
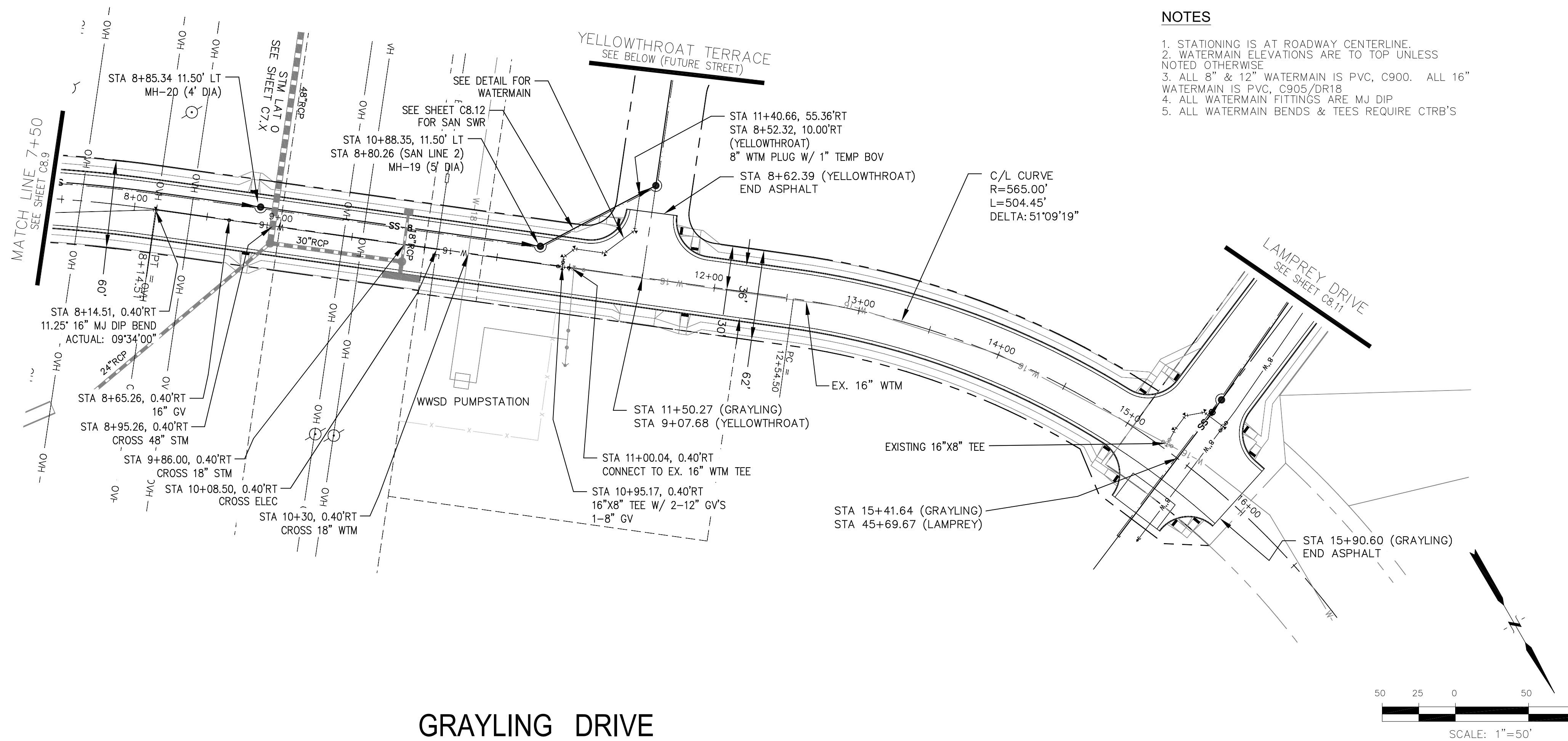


**WTM AND SANITARY PLAN/PROFILE**  
**GRAYLING DR & SCRUB JAY TR**  
**STA 0+00 TO STA 7+50**

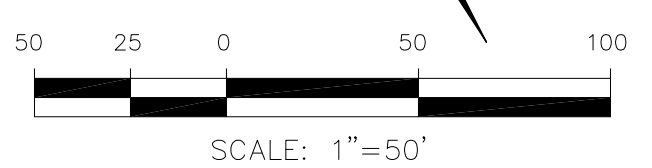
SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'



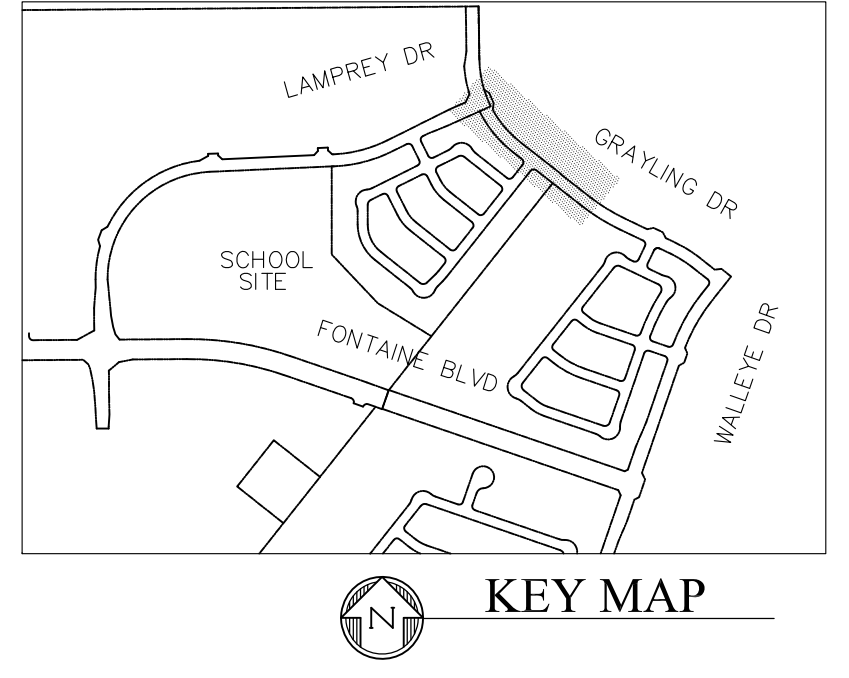
DATE: NOV 12, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C8.9  
 TOTAL SHEETS: 58



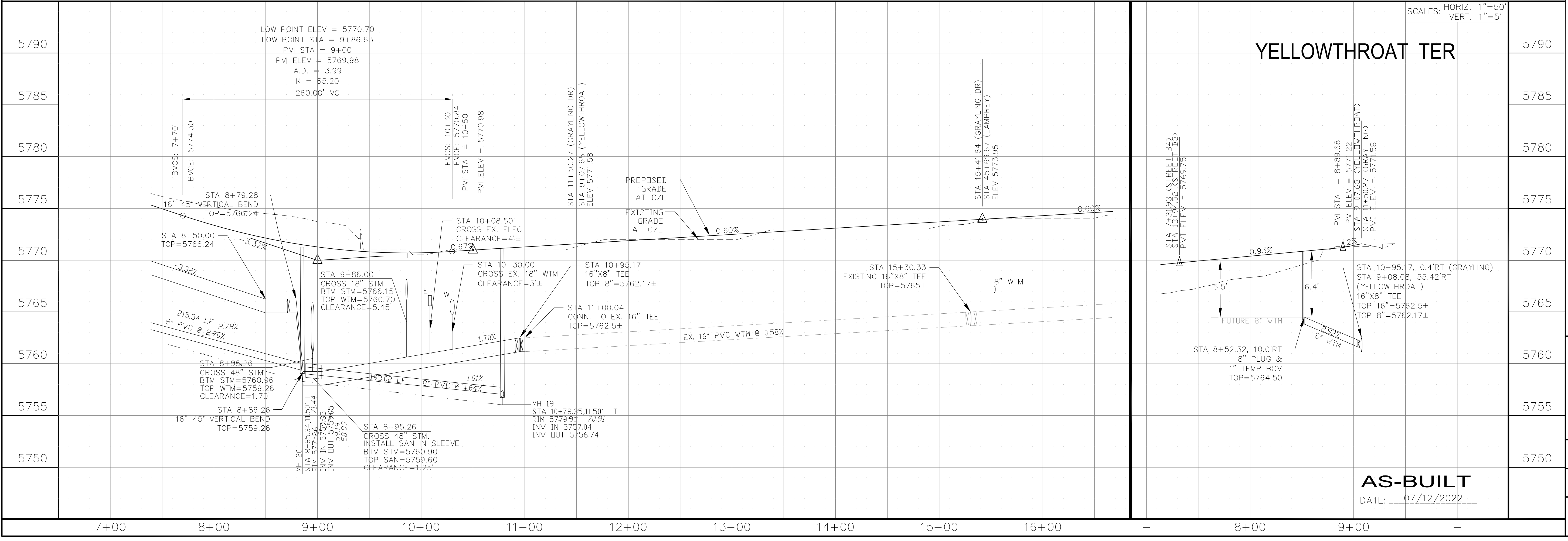
**WATERMAIN DETAIL**  
SCALE: 1"=20'



- 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.



**GRAYLING DRIVE**



**YELLOWTHROAT TER**

**AS-BUILT**  
DATE: 07/12/2022

**CORE ENGINEERING GROUP**  
15004 151st AVENUE, SUITE 301  
P.O. BOX 1100  
SPRINGFIELD, CO 80903  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1  
PROJECT: THE HILLS COLLECTOR STREET CONSTRUCTION  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

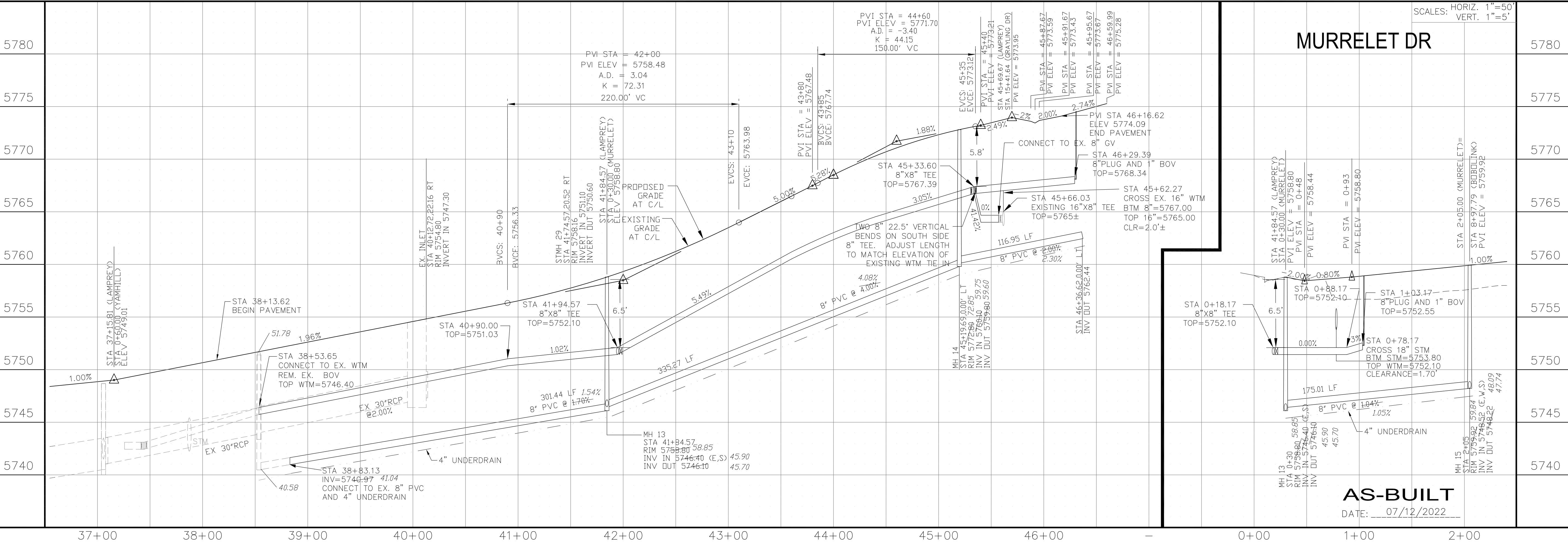
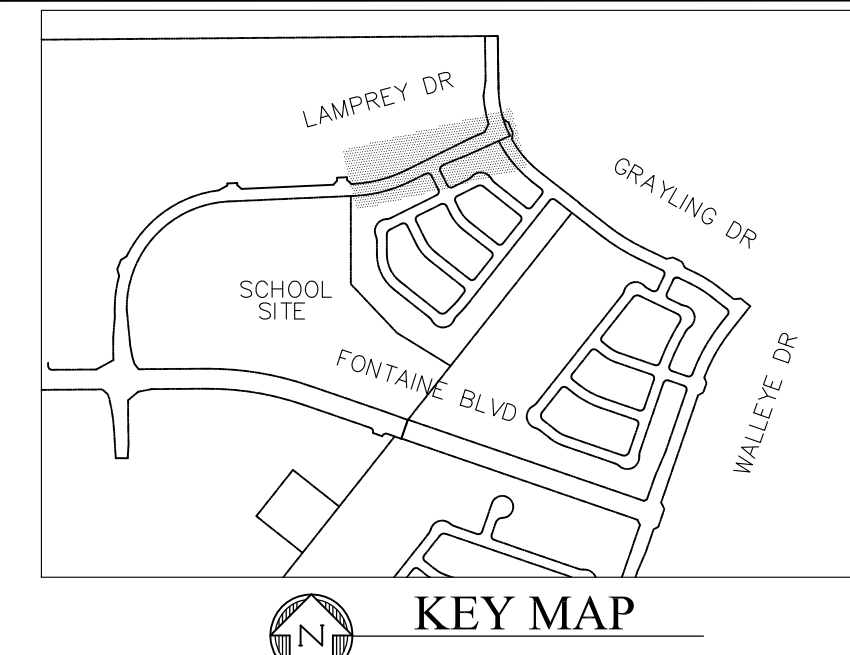
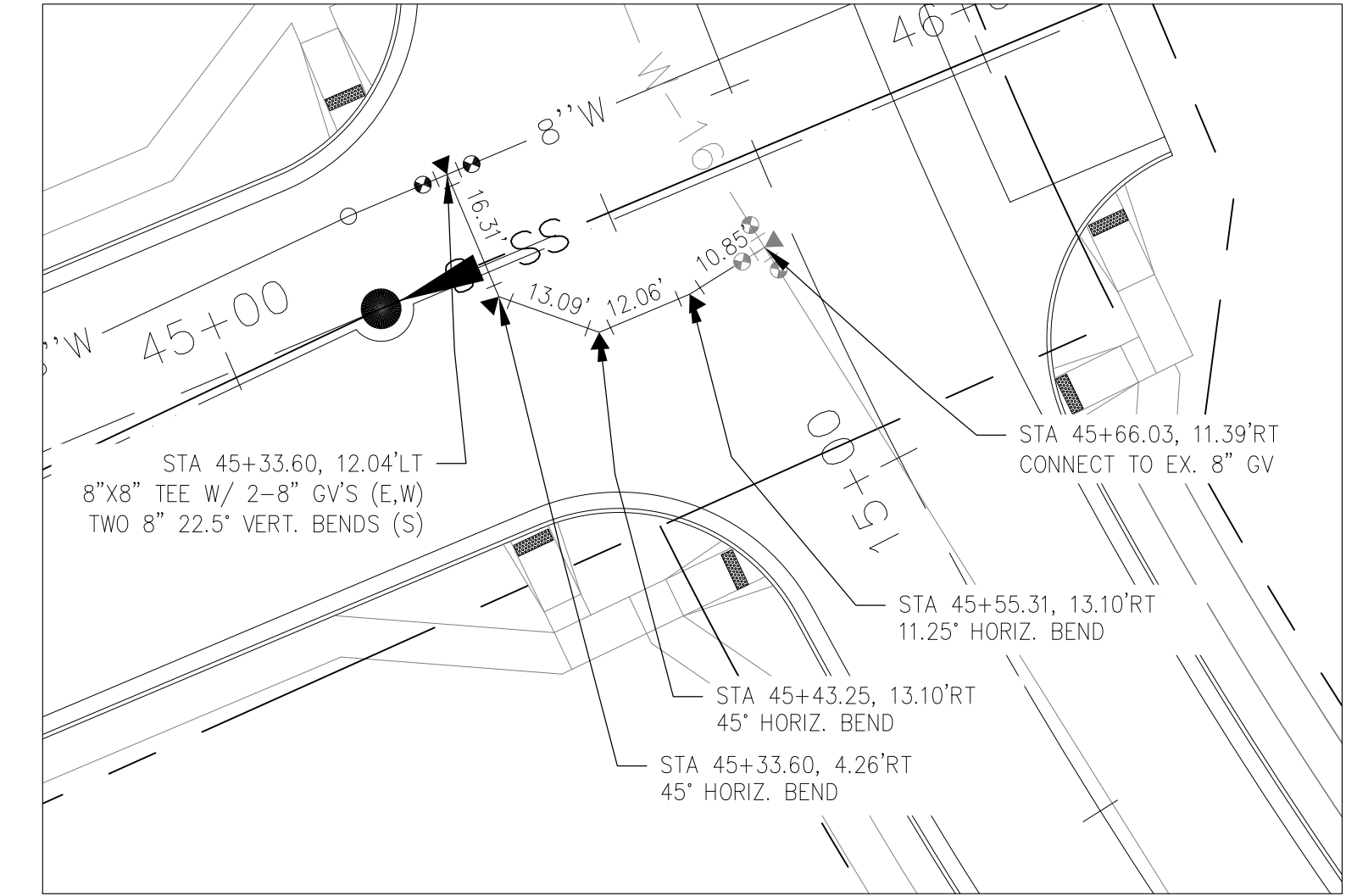
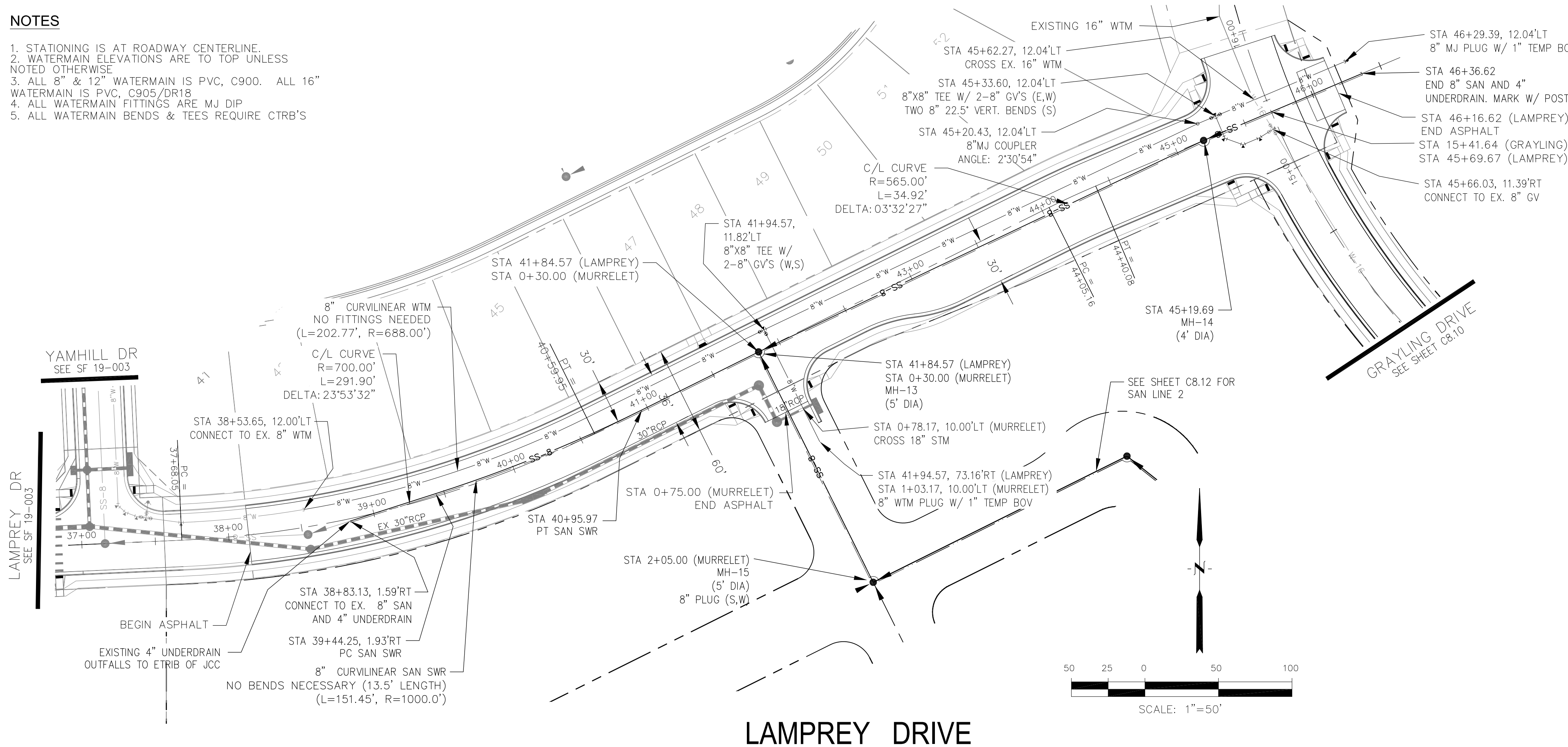
**WTM AND SANITARY PLAN/PROFILE**  
**GRAYLING DR & YELLOWTHROAT TER.**  
**STA 7+50 TO STA 16+00**



DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER **C8.10**  
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
4. ALL WATERMAIN FITTINGS ARE MJ DIP
5. ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**CORE ENGINEERING GROUP**

15004 151<sup>ST</sup> AVENUE, S.  
 P.O. BOX 5506  
 FORT COLLINS, CO 80504  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

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

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

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

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**WTM AND SANITARY PLAN/PROFILE**

**LAMPREY DR AND MURRELET DR**

**STA 37+15 TO STA 46+00**

DATE: NOV 12, 2020

PROJECT NO: 100.061

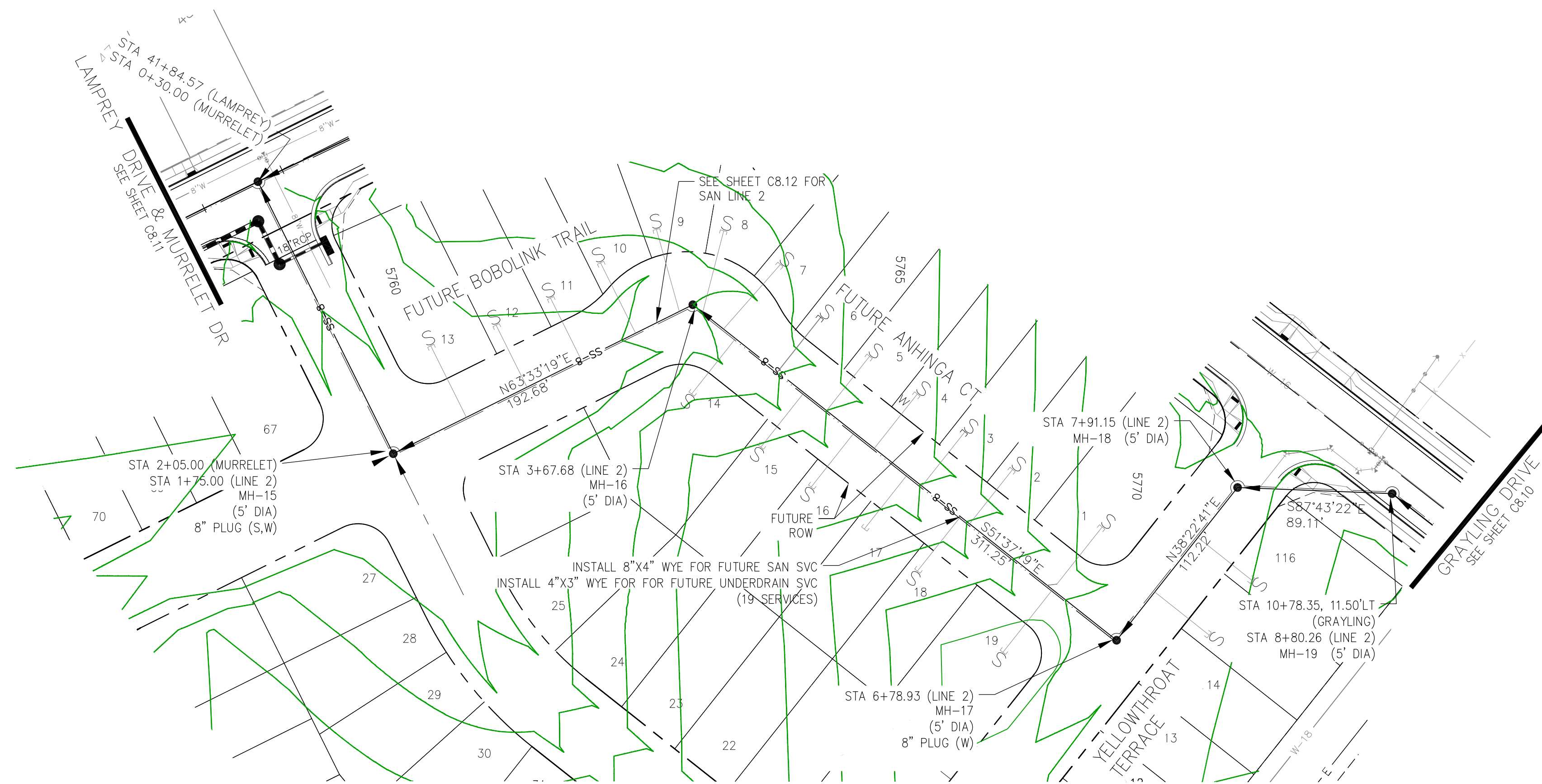
SHEET NUMBER: C8.11

TOTAL SHEETS: 58

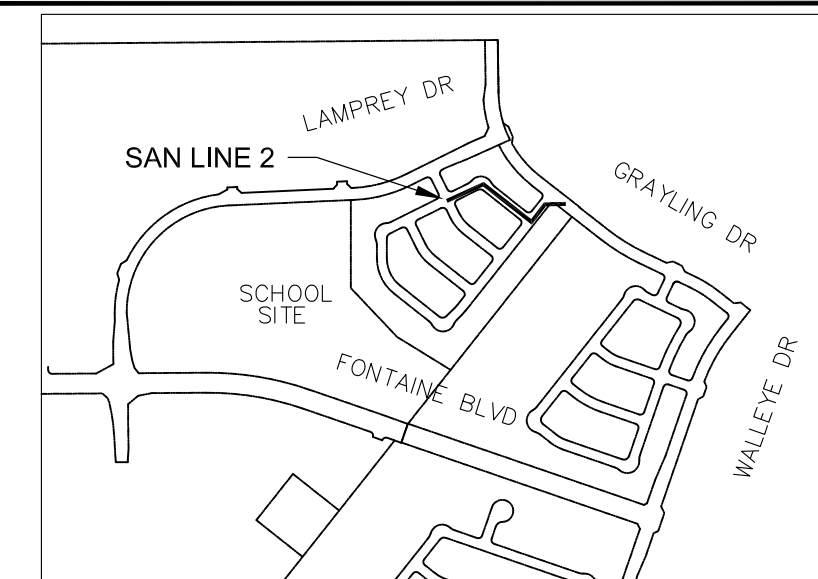


**NOTES**

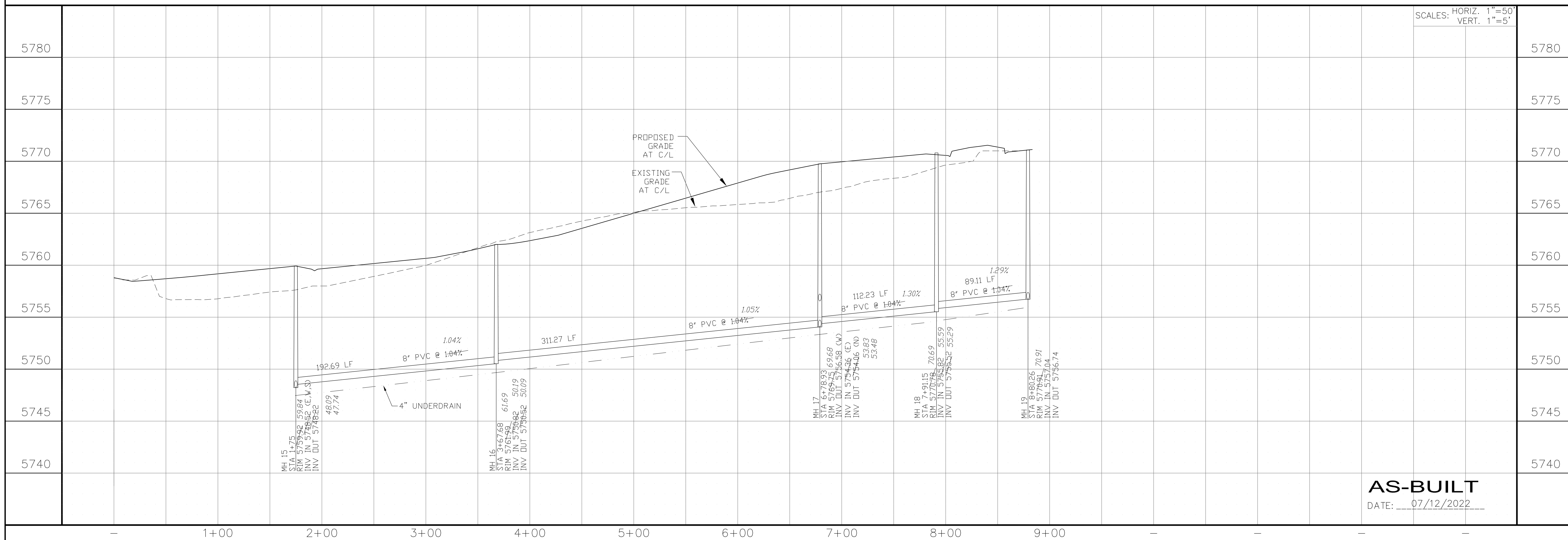
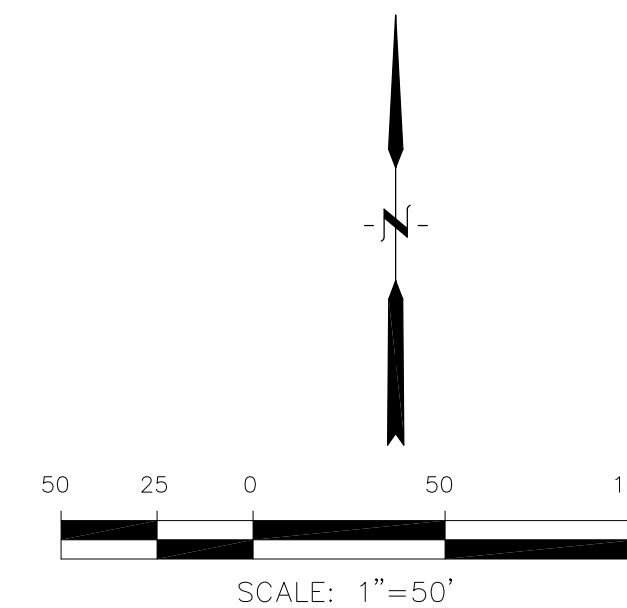
- STATIONING IS AT ROADWAY CENTERLINE.
- WATERMAIN ELEVATIONS ARE TO TOP UNLESS NOTED OTHERWISE
- ALL 8" & 12" WATERMAIN IS PVC, C900. ALL 16" WATERMAIN IS PVC, C905/DR18
- ALL WATERMAIN FITTINGS ARE MJ DIP
- ALL WATERMAIN BENDS & TEES REQUIRE CTRB'S



**SAN SWR LINE 2**



**KEY MAP**



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

**AS-BUILT**  
DATE: 07/12/2022

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cge1.com

---

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

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

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

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

---

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

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

---

**SANITARY SEWER PLAN/PROFILE**  
**LINE 2**  
**STA 1+75 TO STA 8+80**

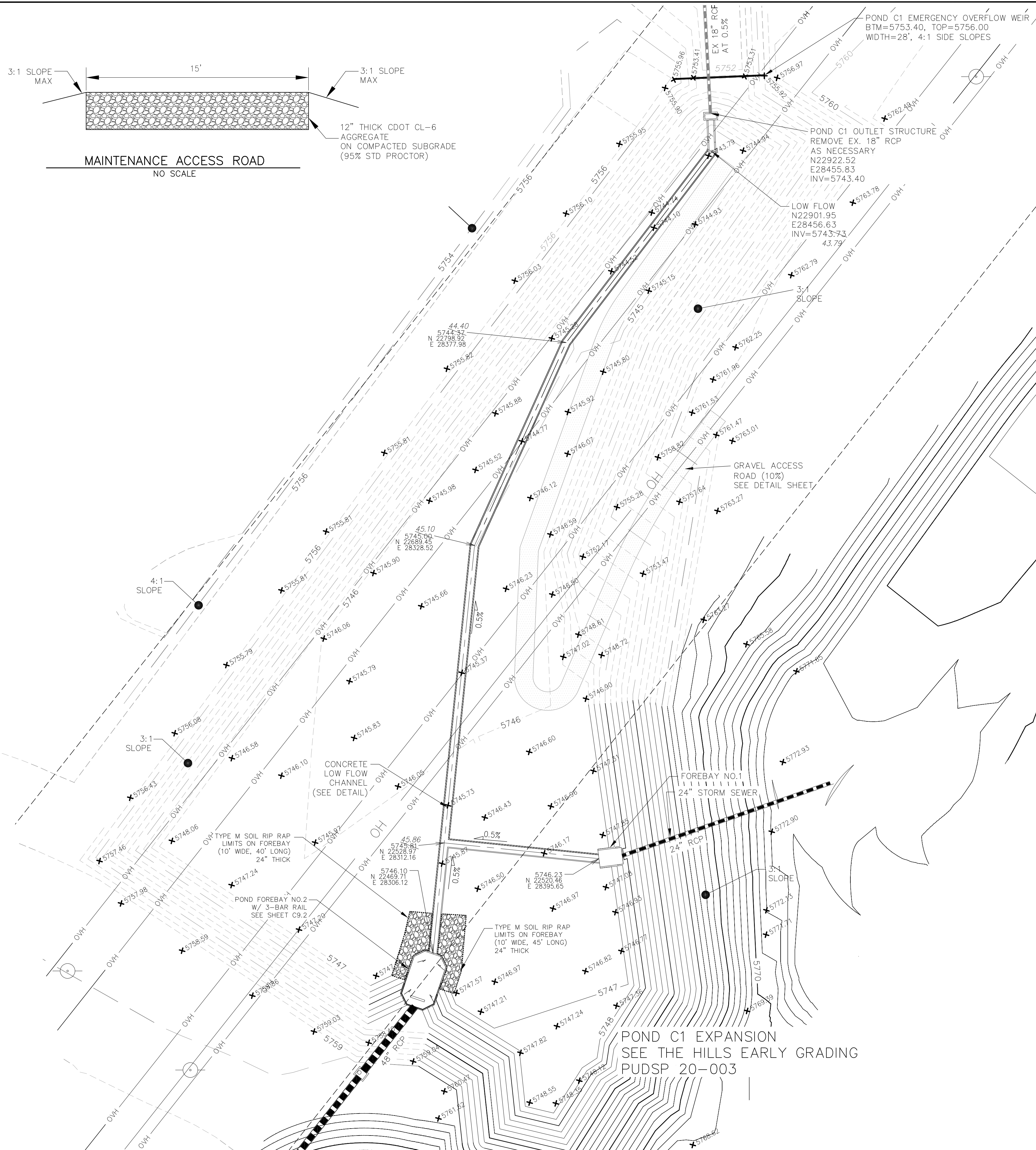
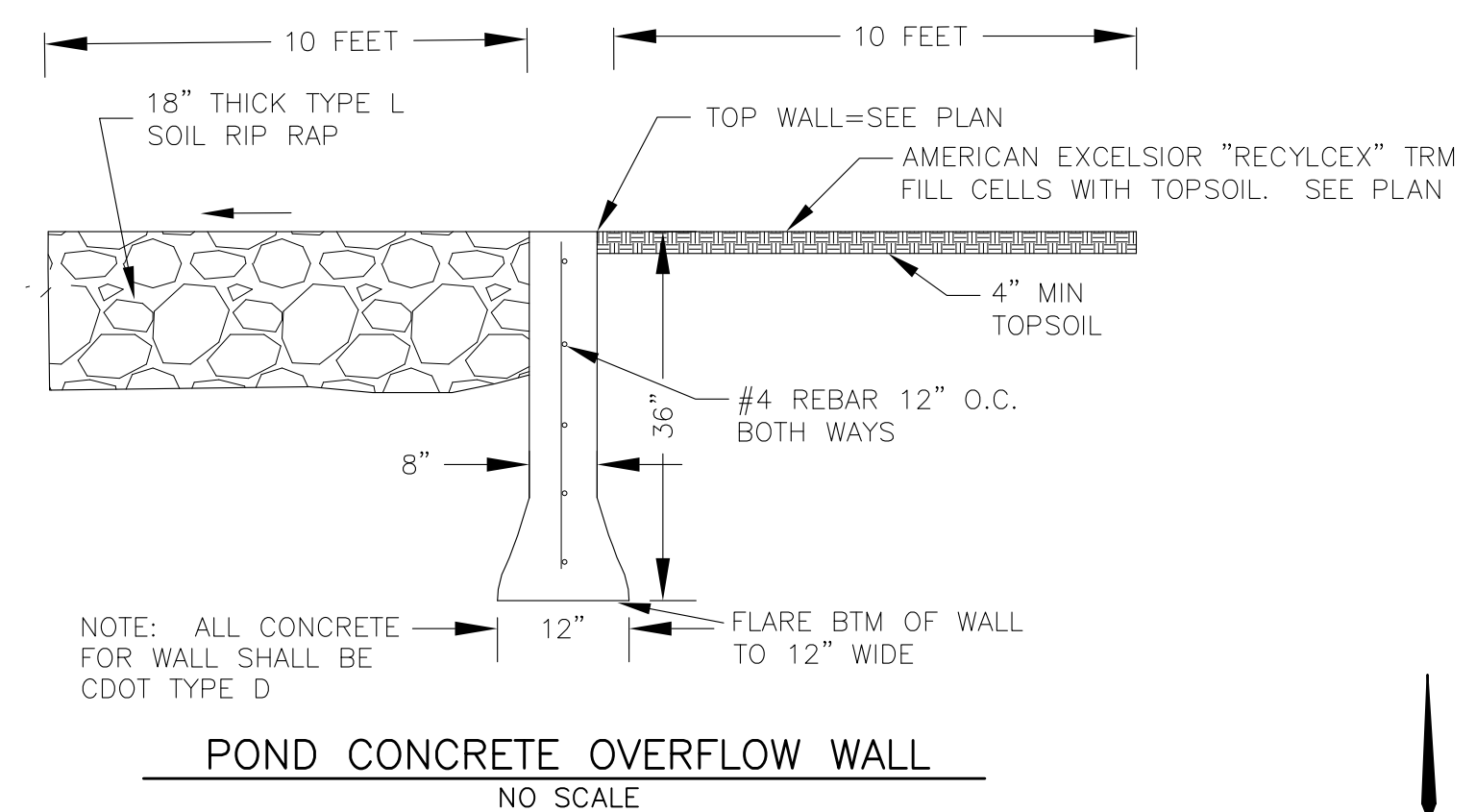
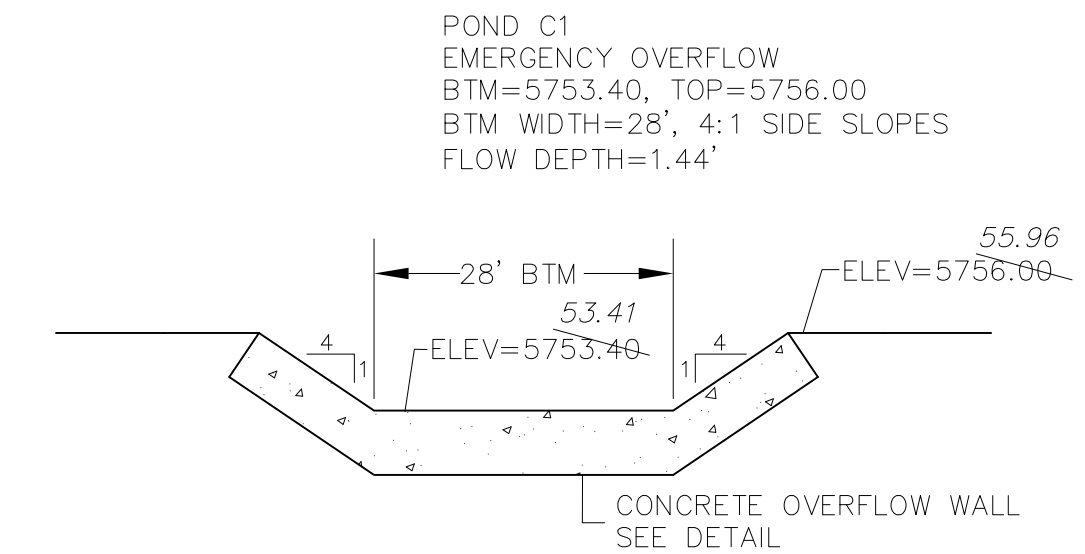
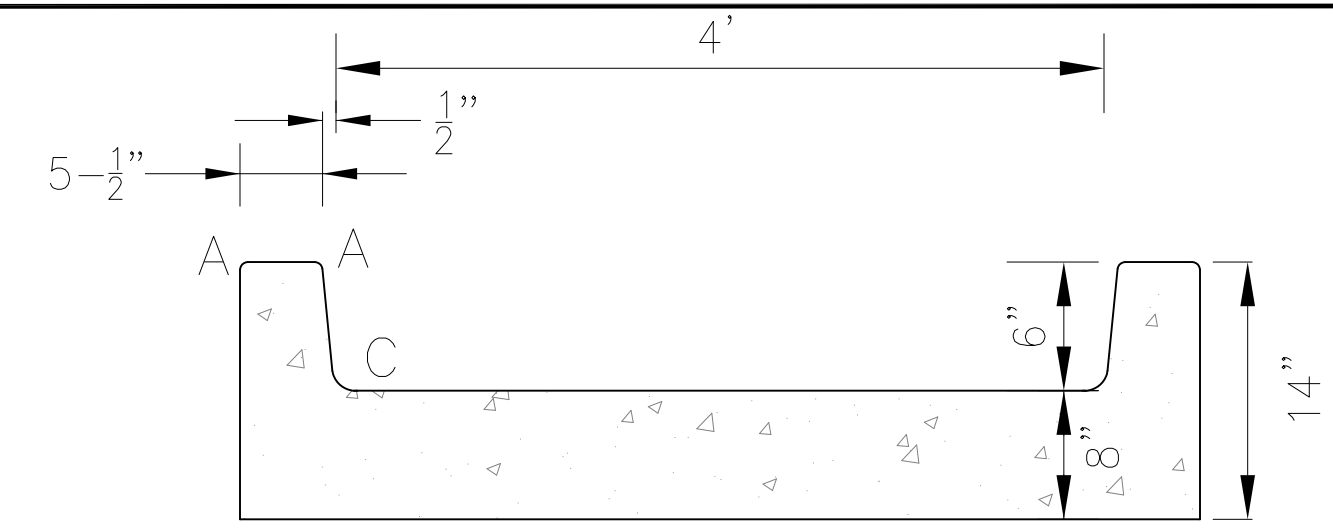
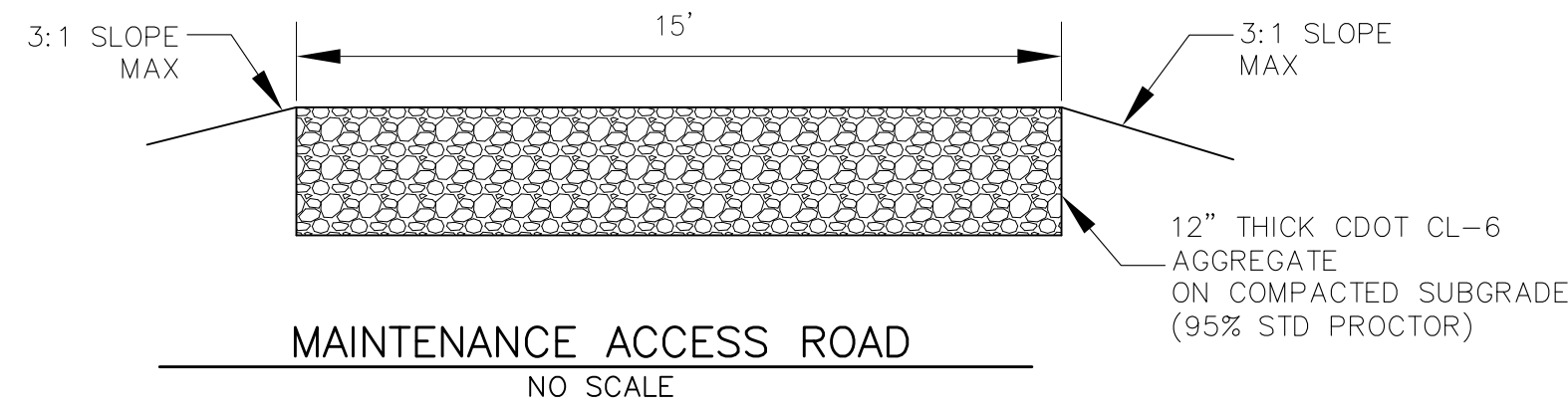
COLORADO REGISTERED PROFESSIONAL ENGINEER  
No. 33997  
11-12-2020

DATE: NOV 12, 2020

PROJECT NO. 100.061

SHEET NUMBER **C8.12**

TOTAL SHEETS: 58



**CORE ENGINEERING GROUP**  
19004 1ST AVE. SUITE 300  
DENVER, CO 80202  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.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 - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

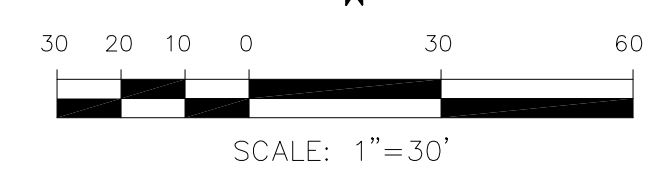
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

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

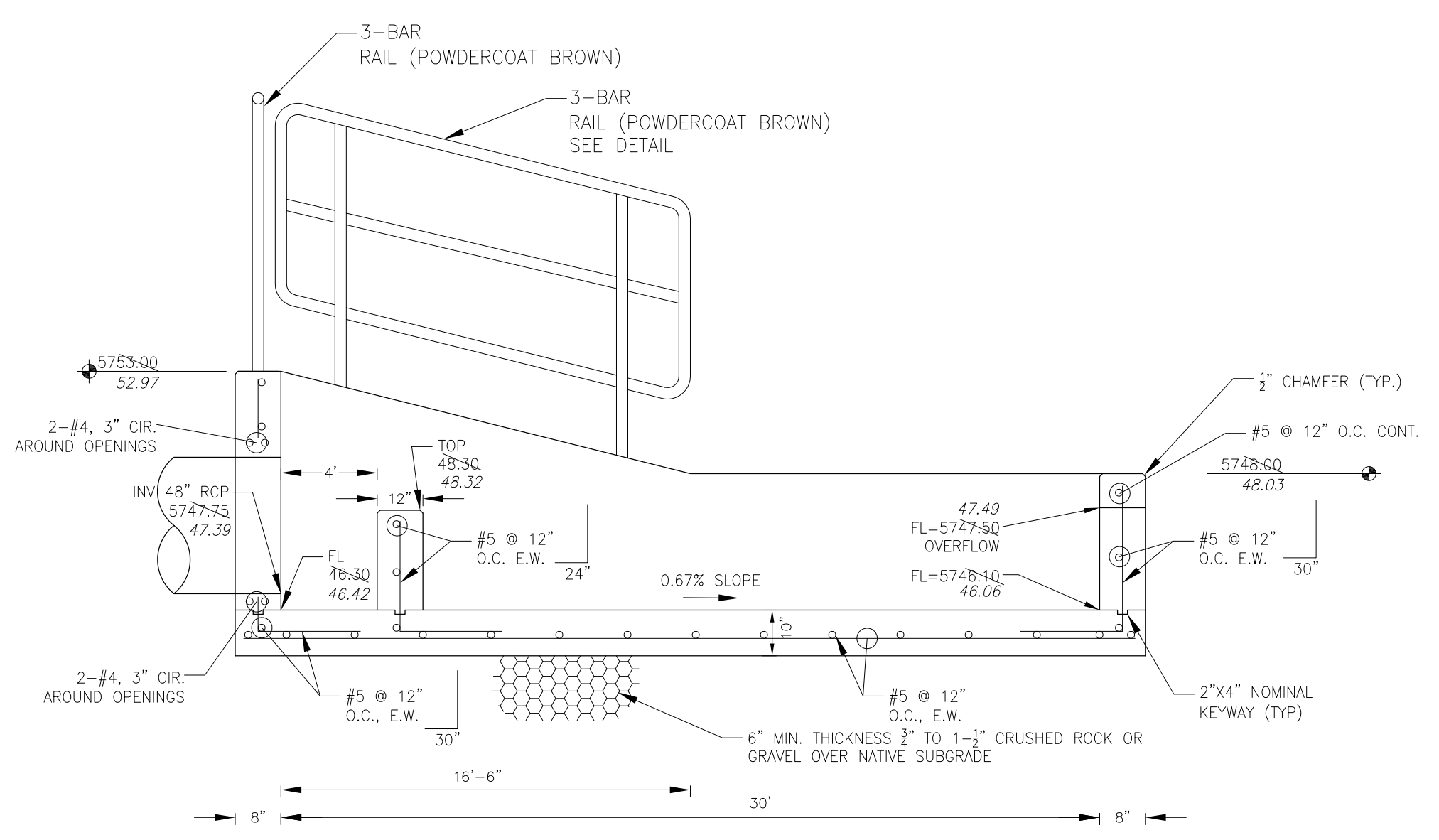


DATE: NOV 12, 2020  
PROJECT NO: 100.061  
SHEET NUMBER: C9.1  
TOTAL SHEETS: 58

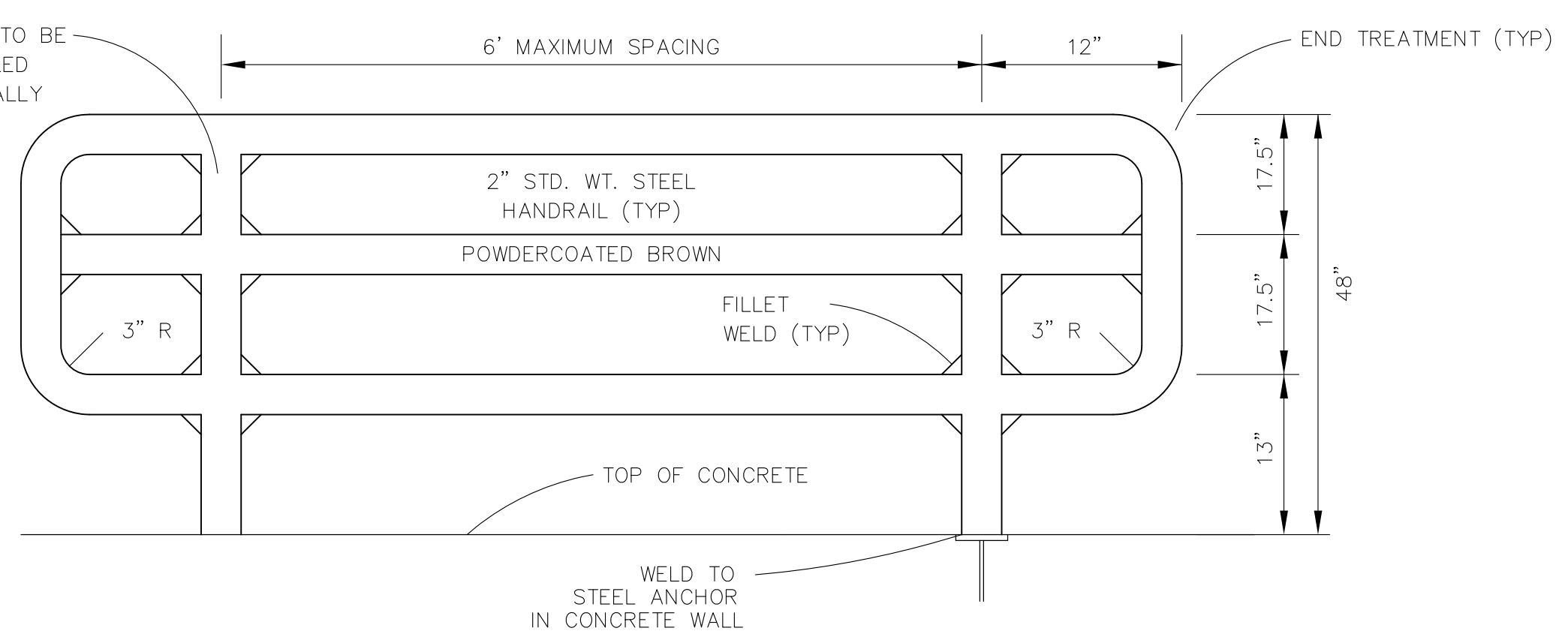
**AS-BUILT**  
DATE: 09/30/2022



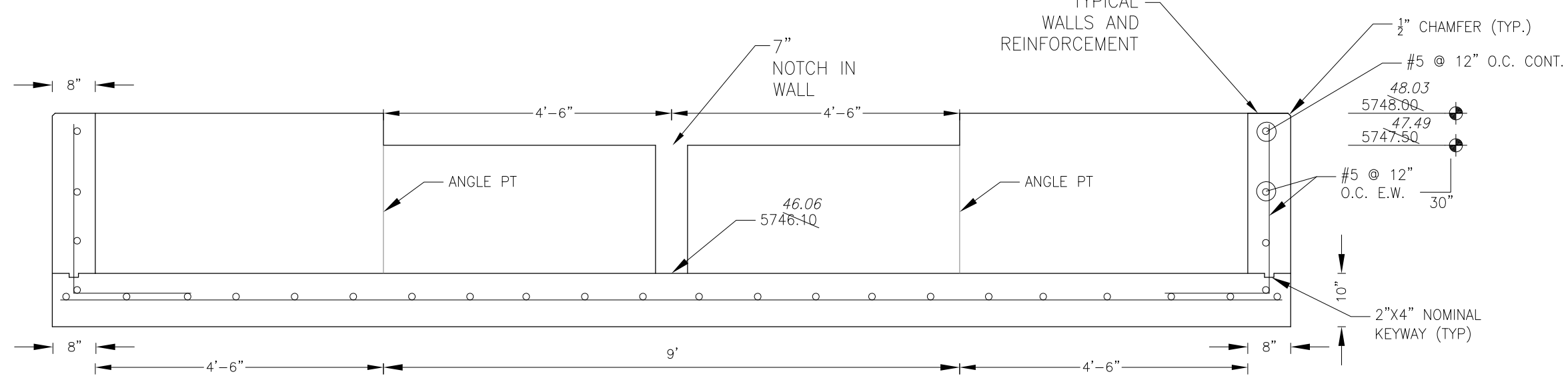
**POND C1  
 FOREBAY NO. 2  
 FOREBAY DETAILS**



**FOREBAY SECTION A-A**  
NO SCALE

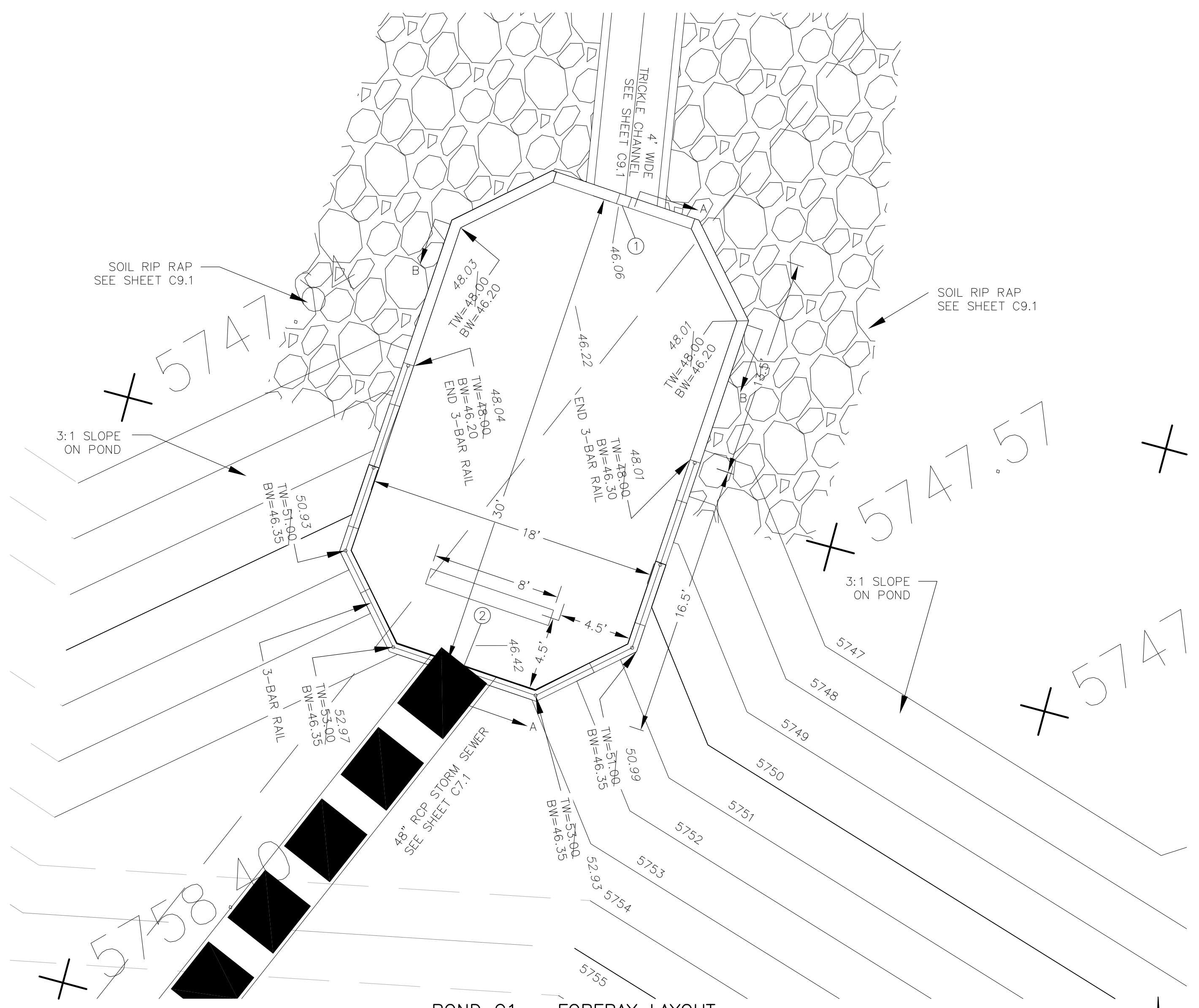


**3-BAR RAIL DETAIL**  
NO SCALE

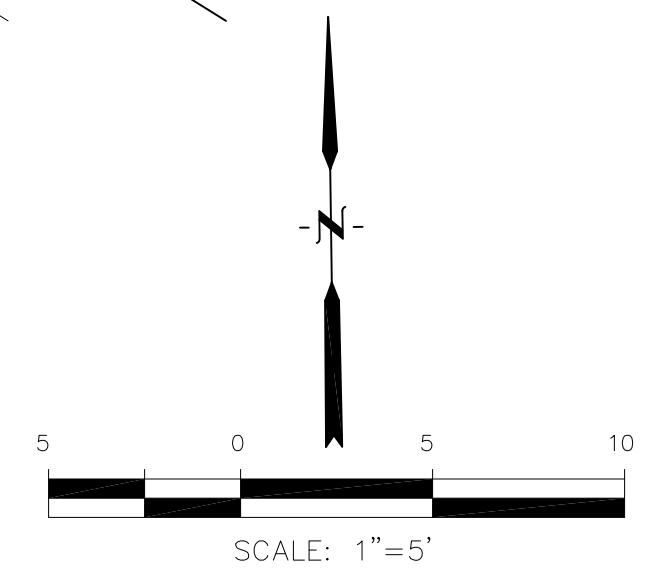


**FOREBAY SECTION B-B**  
NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D



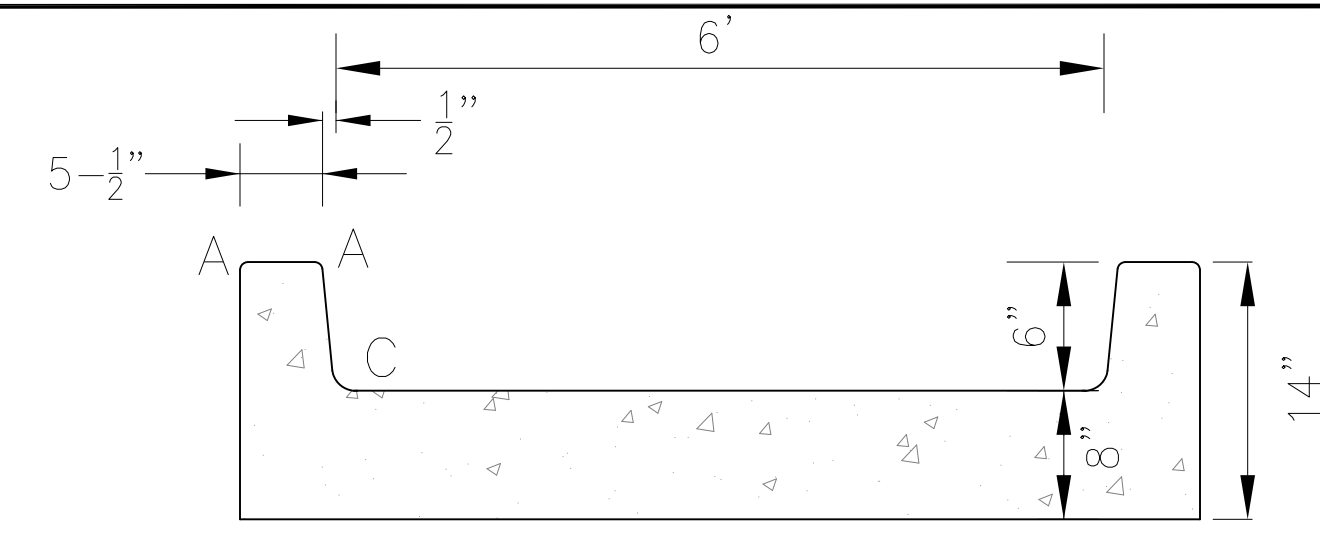
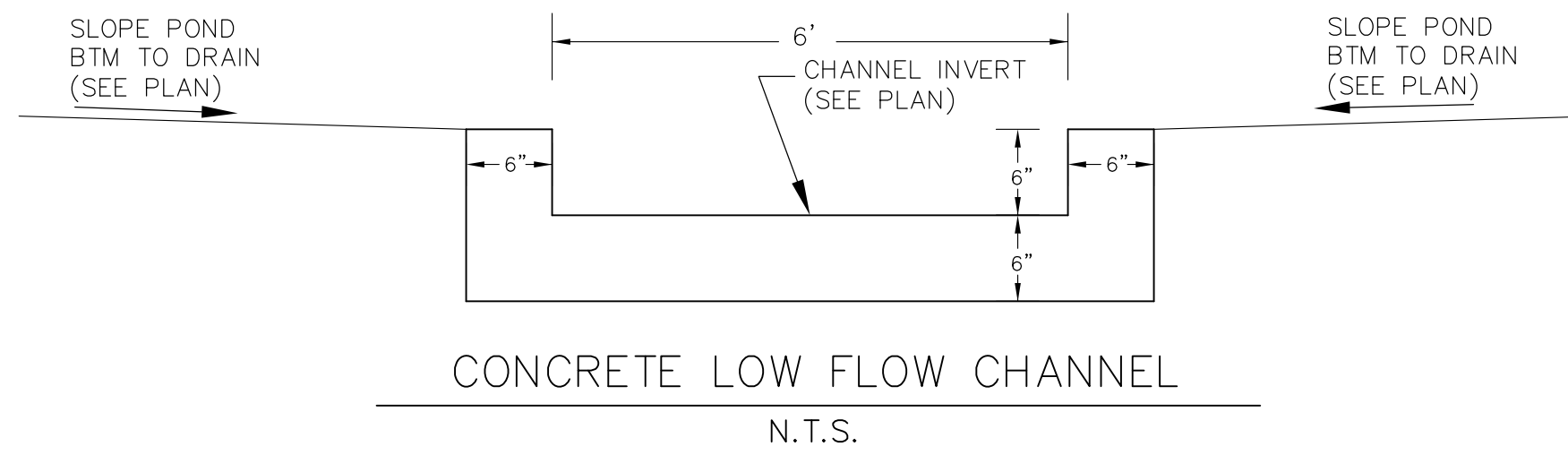
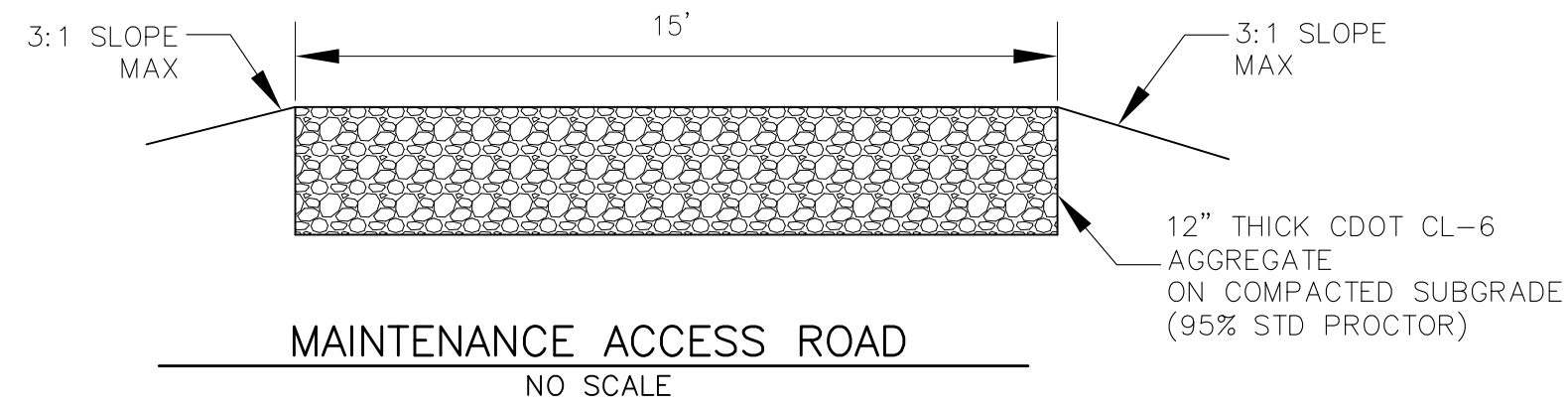
**POND C1 - FOREBAY LAYOUT**  
SCALE: 1"=5'



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

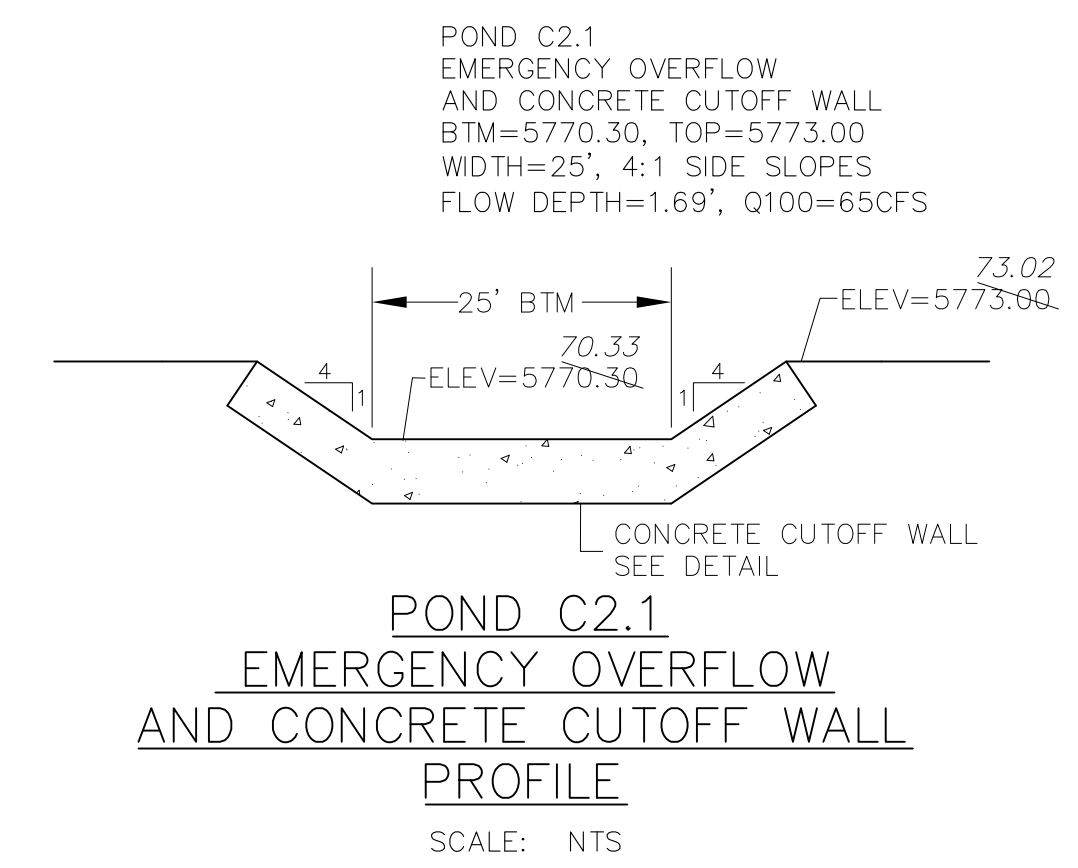
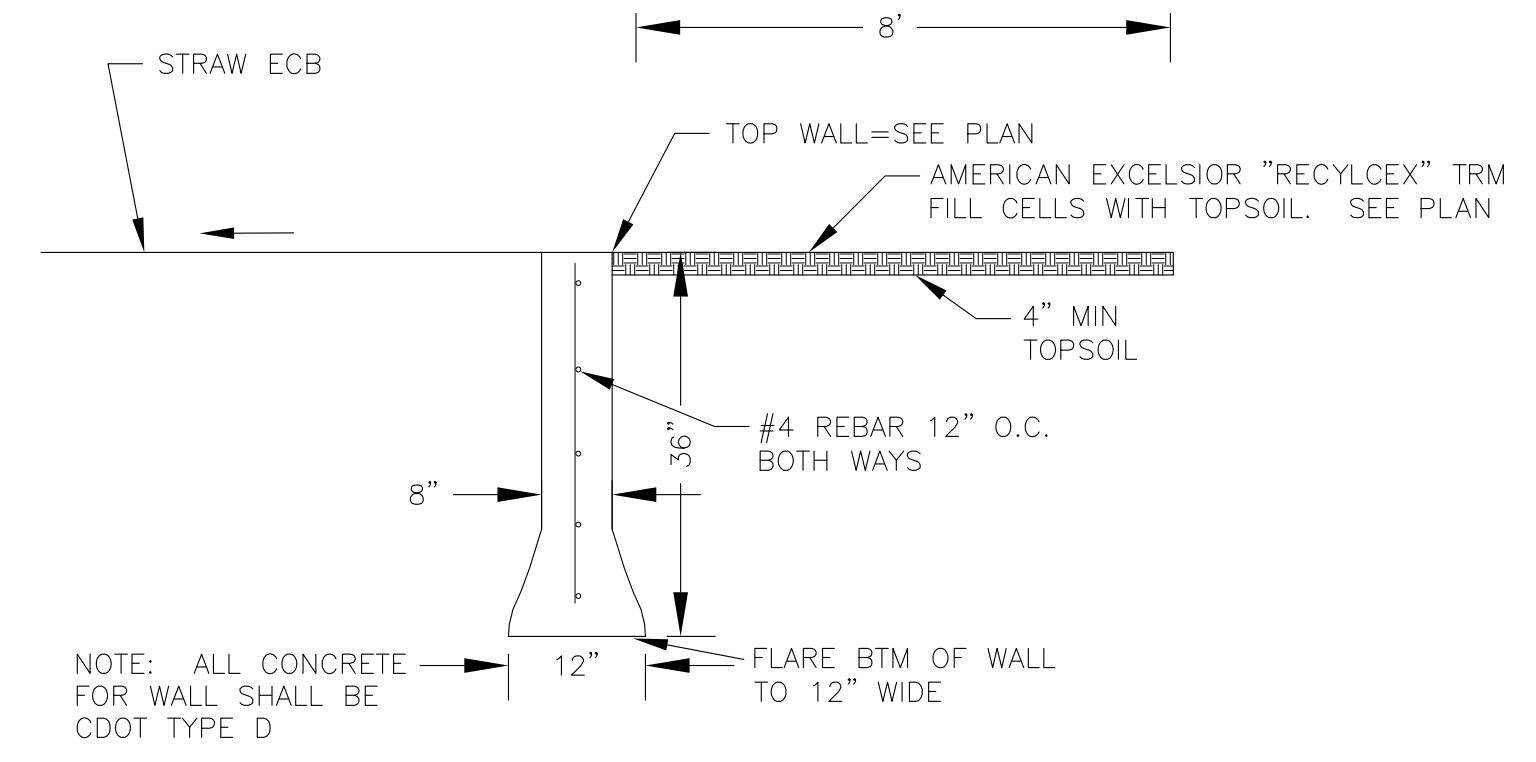
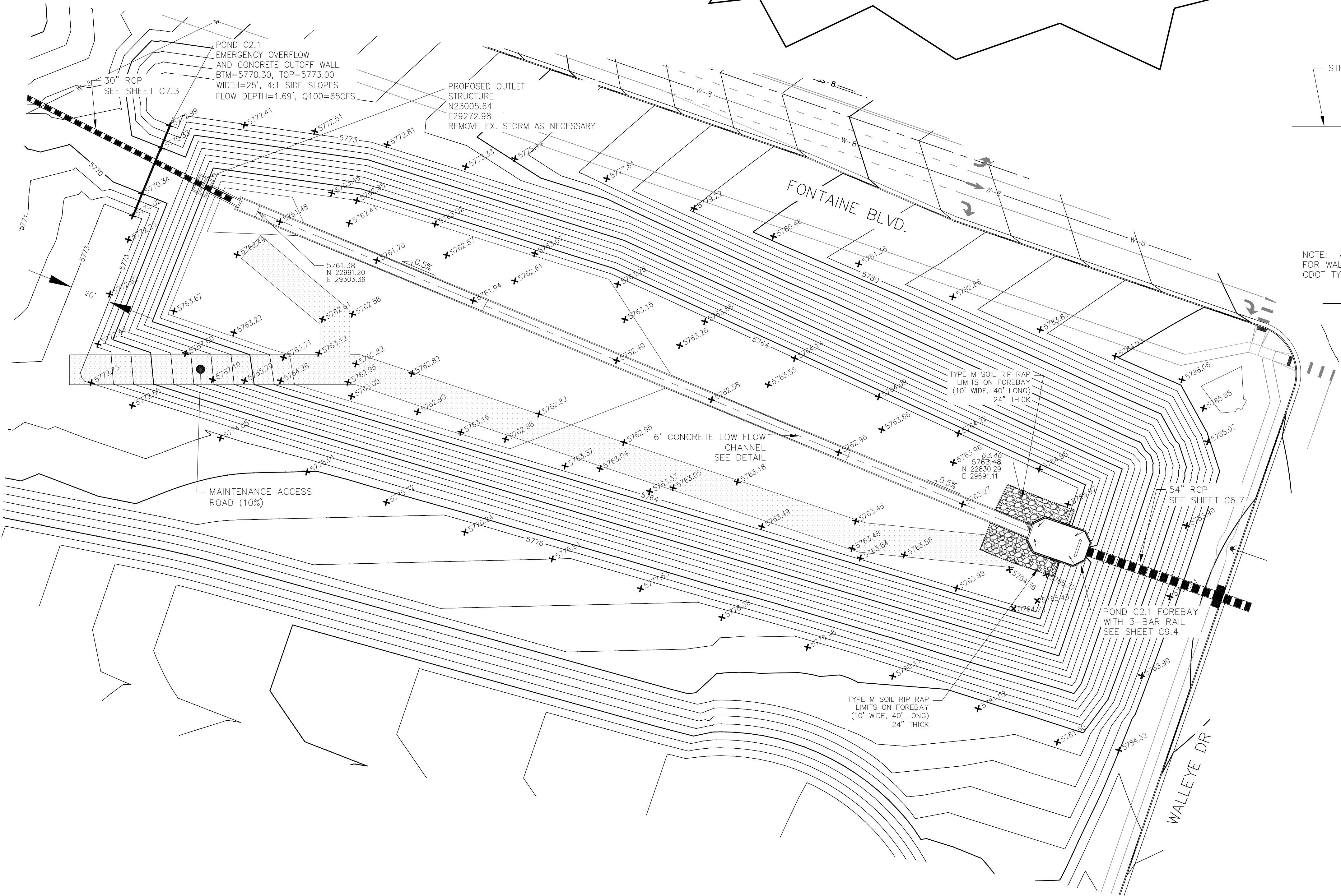
**AS-BUILT**  
 DATE: 09/30/2022



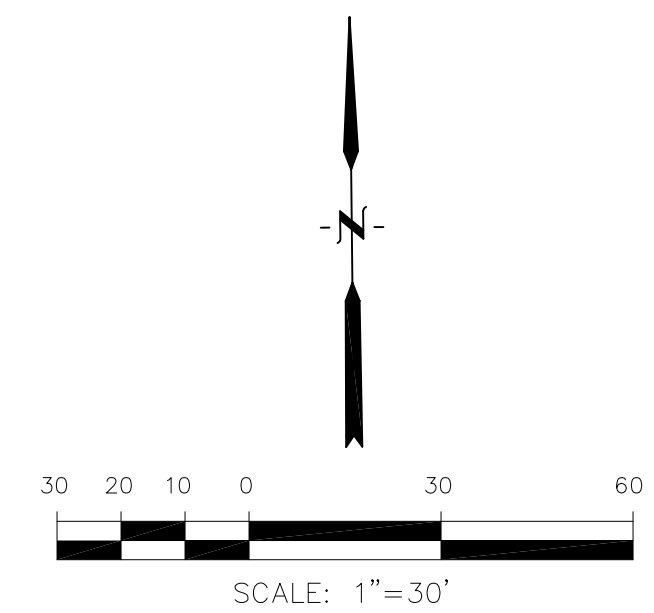


LENGTH FOR RADII	
A	1/2"
C	1-1/2"

POND C2.1 IS LOCATED IN TRACT G, THE HILLS AT LORSON RANCH FILING NO. 1. SEE MAINTENANCE AGREEMENT AT REC. NO. 220211669



**AS-BUILT**  
DATE: 09/30/2022



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80232  
PHONE: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021

DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES

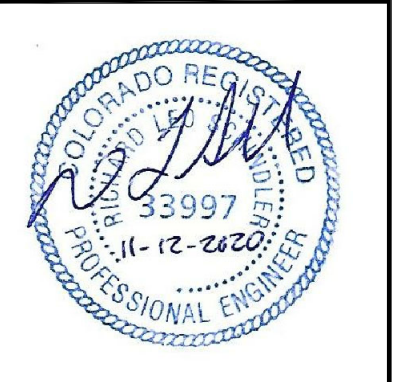
NO. 1

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. - WALLEVE DR. - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

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

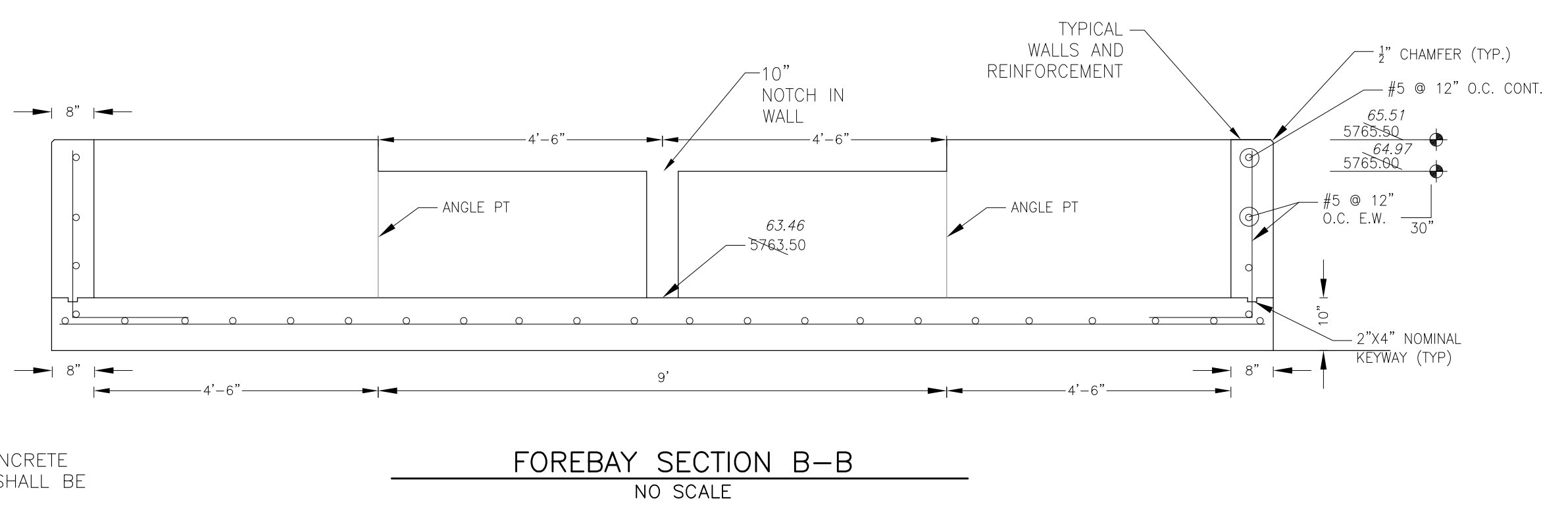
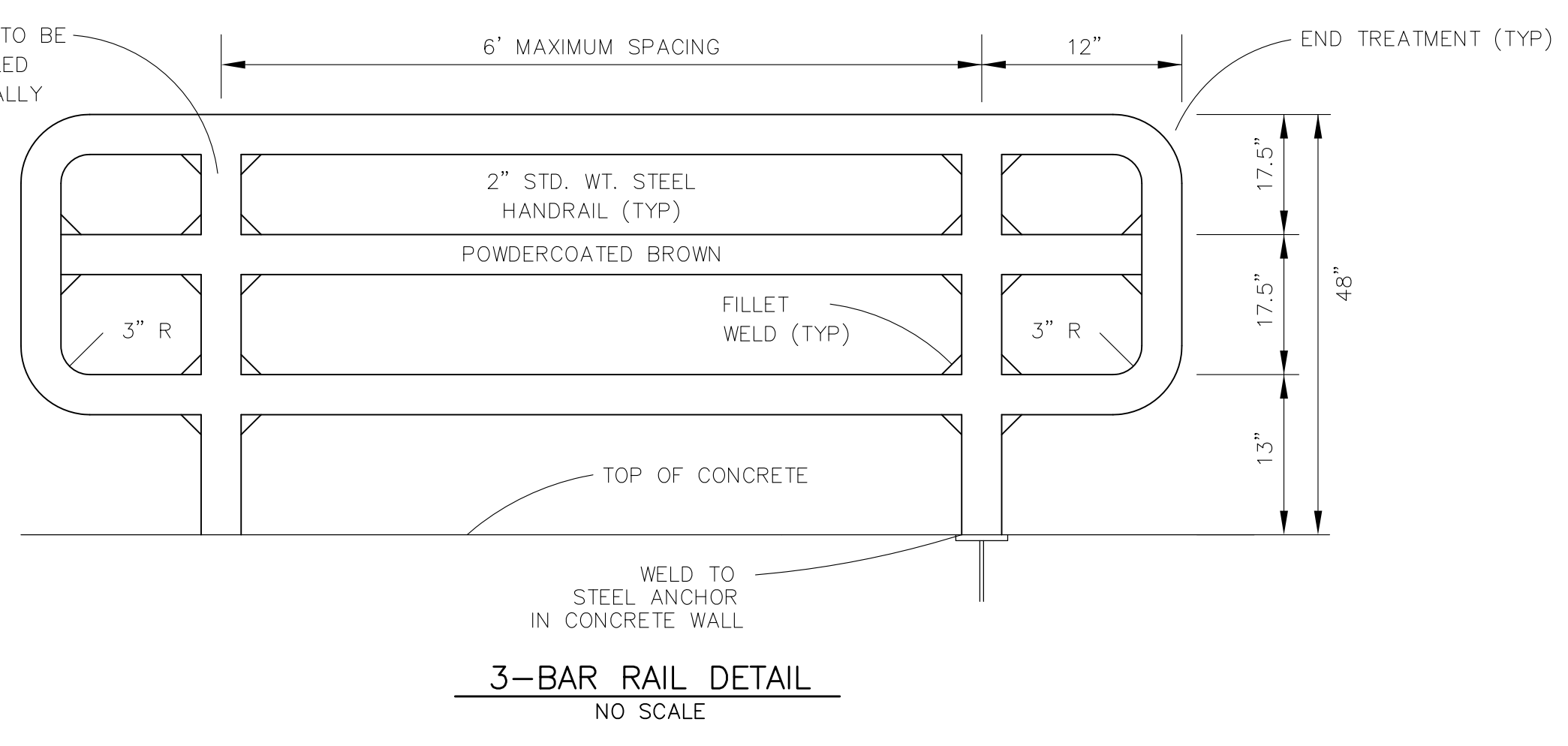
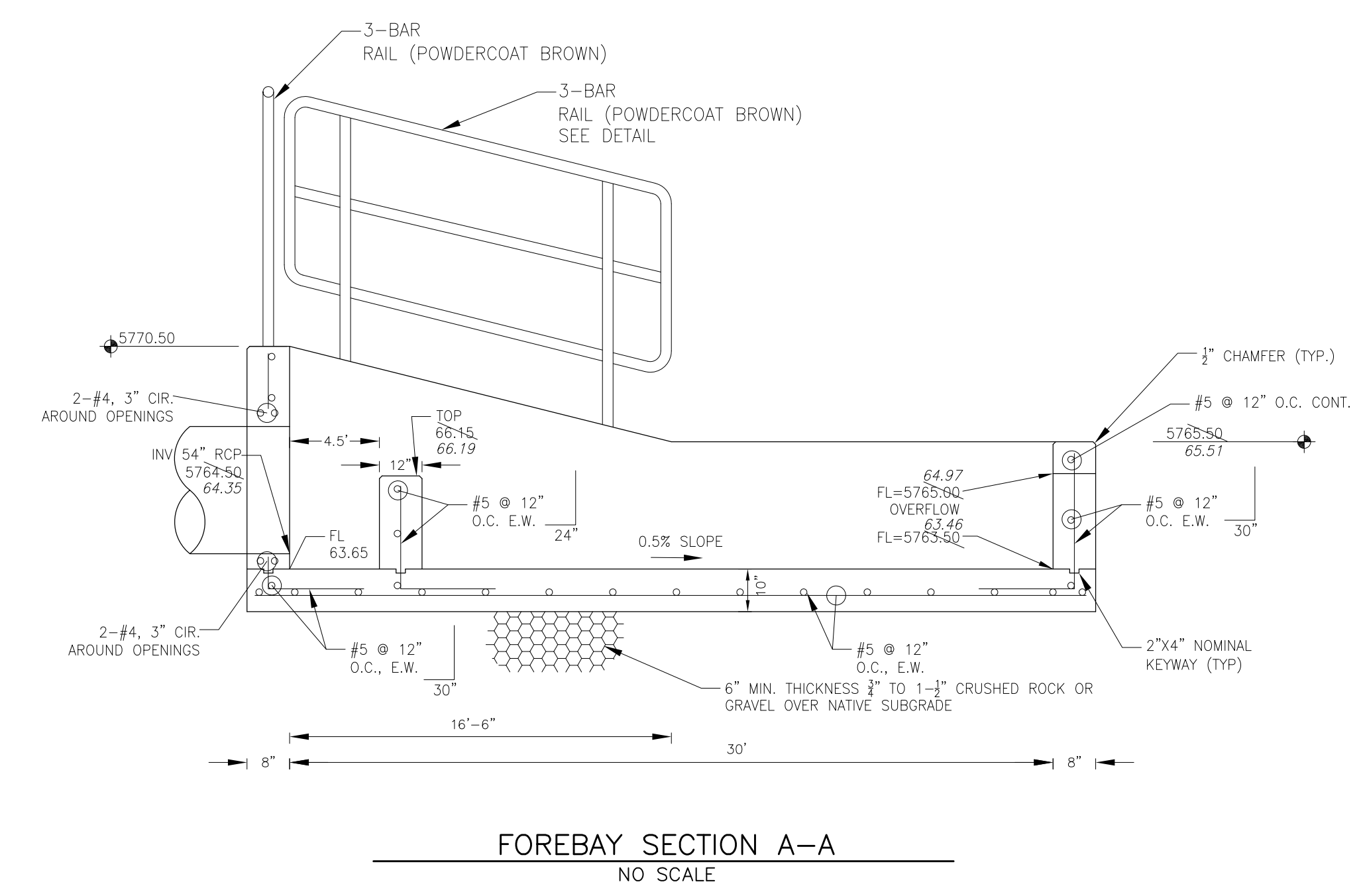


DATE: NOV 12, 2020

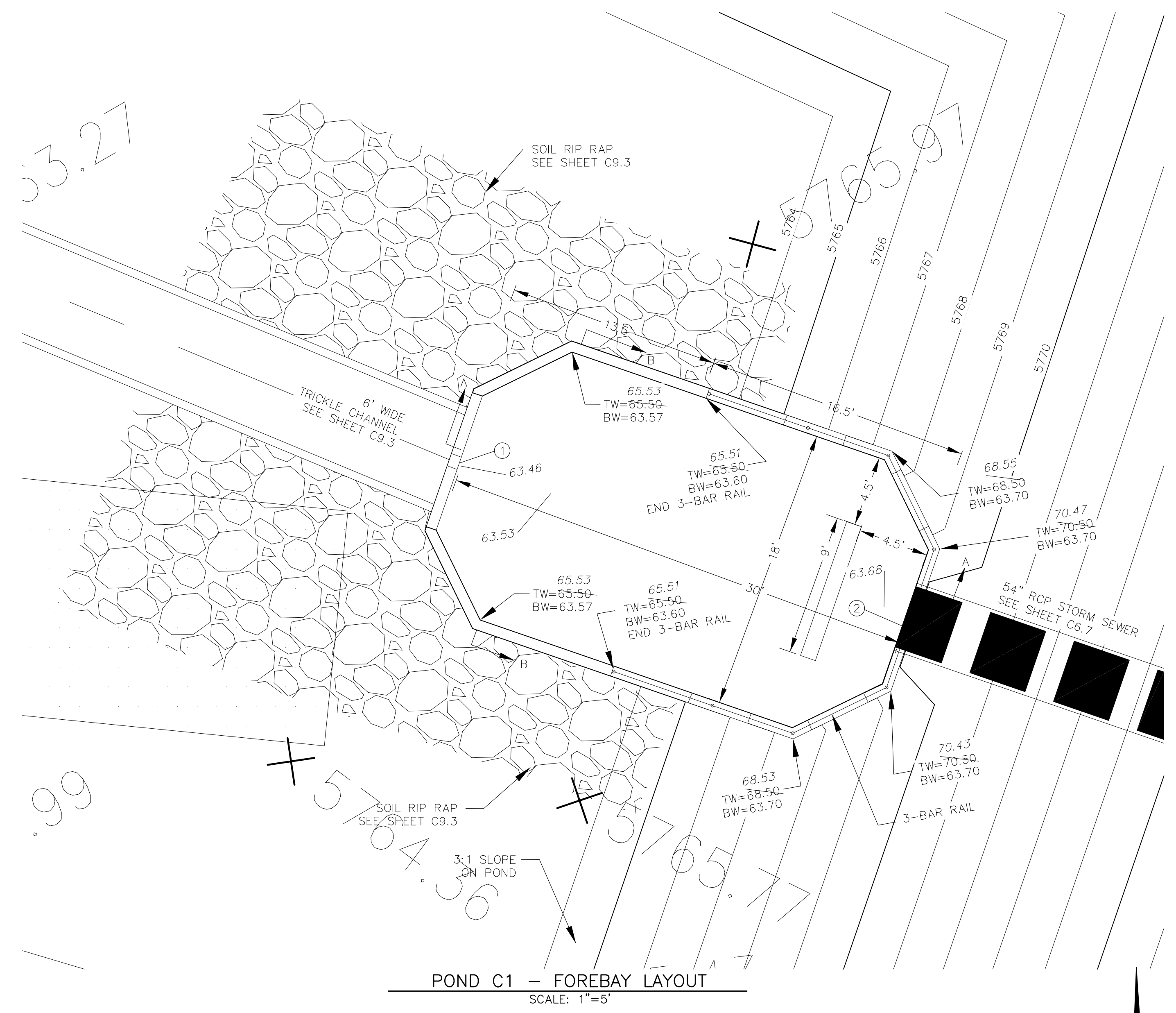
PROJECT NO. 100.061

SHEET NUMBER **C9.3**

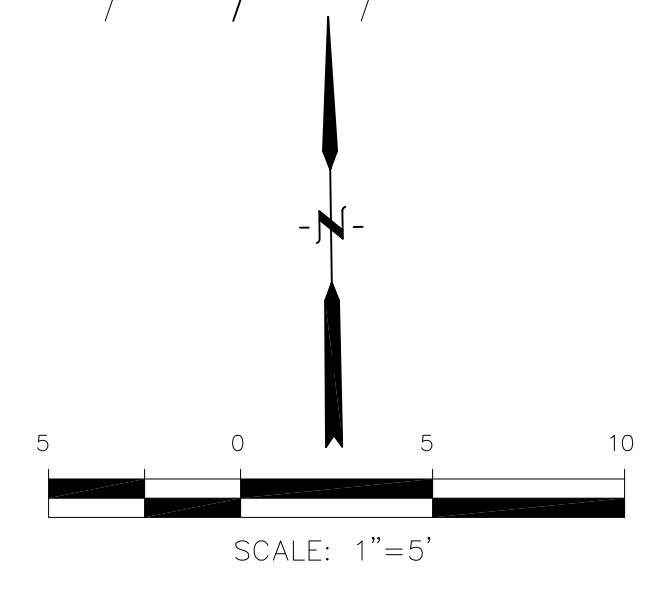
TOTAL SHEETS: 58



NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

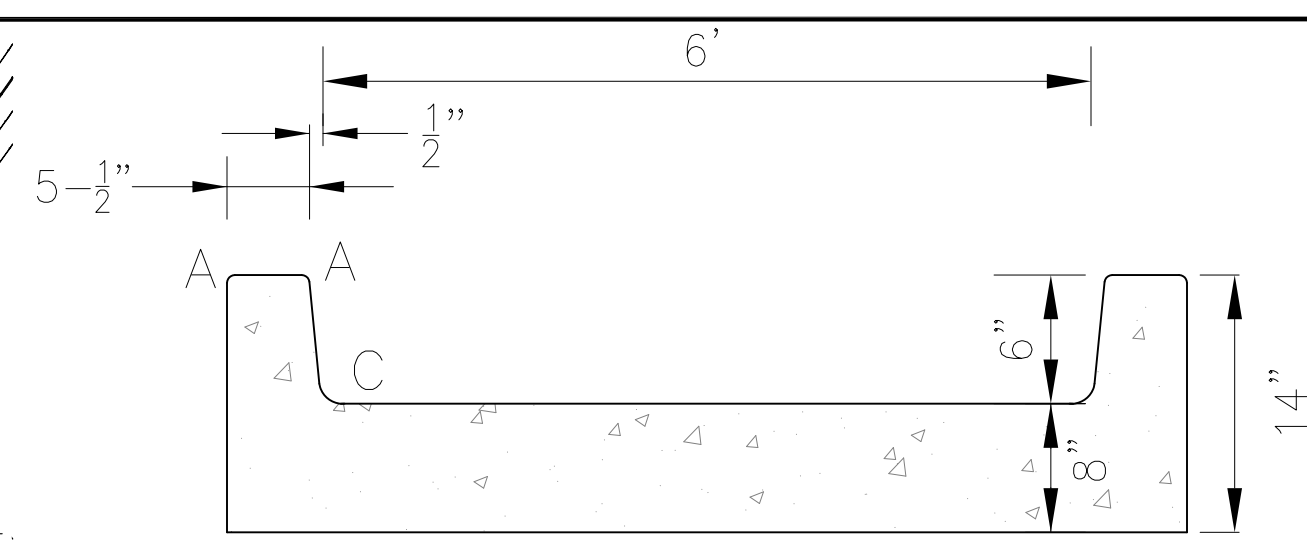
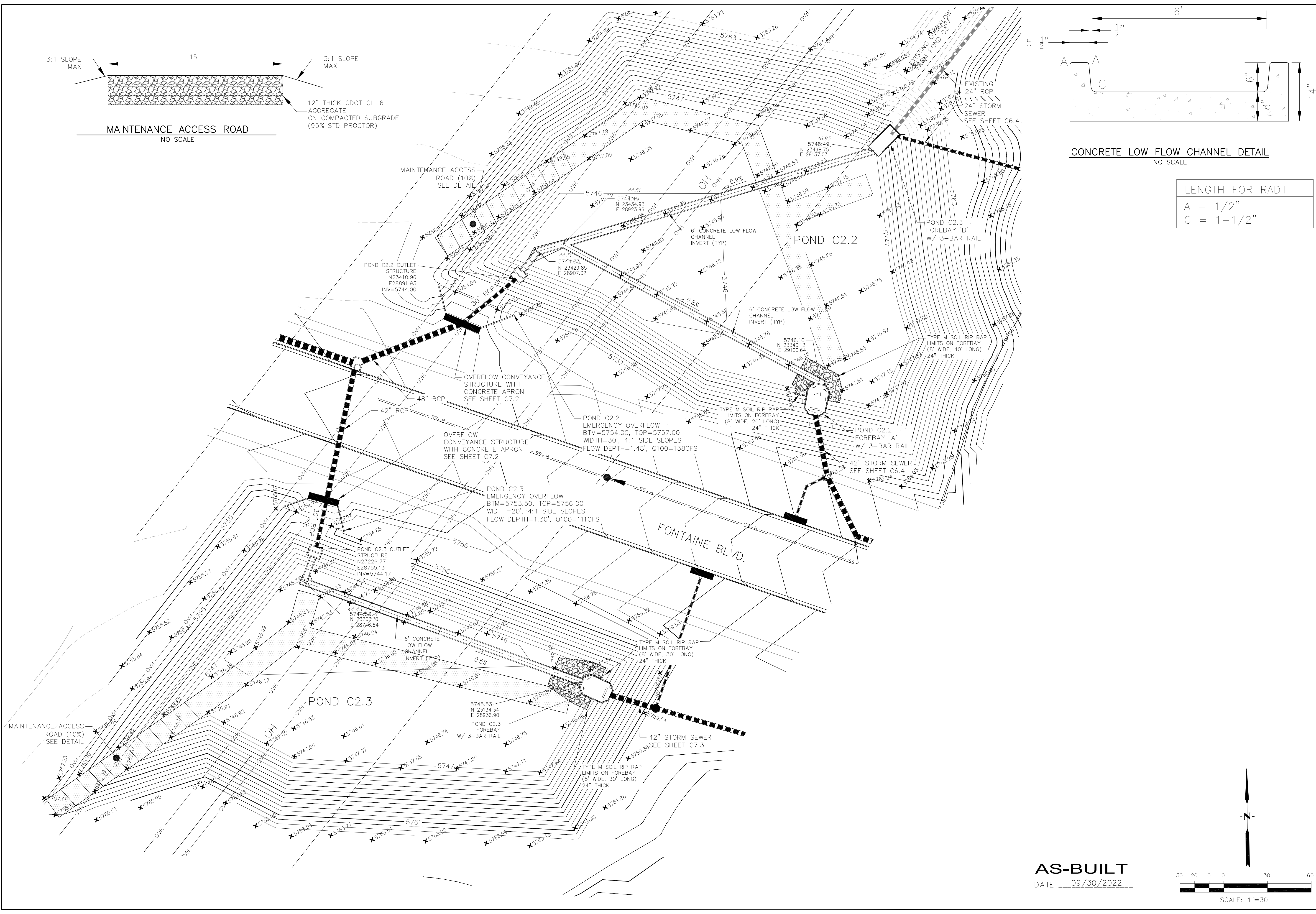


POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	22830.08	29691.75	5763.50	FOREBAY BOTTOM
2	22820.31	29720.11	5763.65	FOREBAY BOTTOM, INV 54"=5764.50



**AS-BUILT**  
 DATE: 09/30/2022





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

CONCRETE LOW FLOW CHANNEL DETAIL  
NO SCALE

**CORE ENGINEERING GROUP**  
 15004 1ST AVE. SUITE 300  
 COLORADO SPRINGS, CO 80903  
 TEL: 719.570.1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE. SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

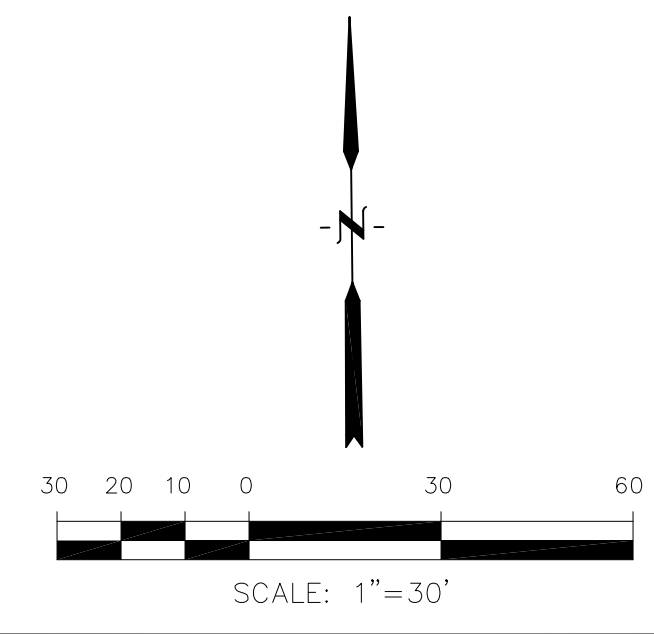
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

### POND C2.2 & C2.3 FOREBAY, LOW FLOW CHANNEL AND OUTLET STRUCTURE LAYOUT

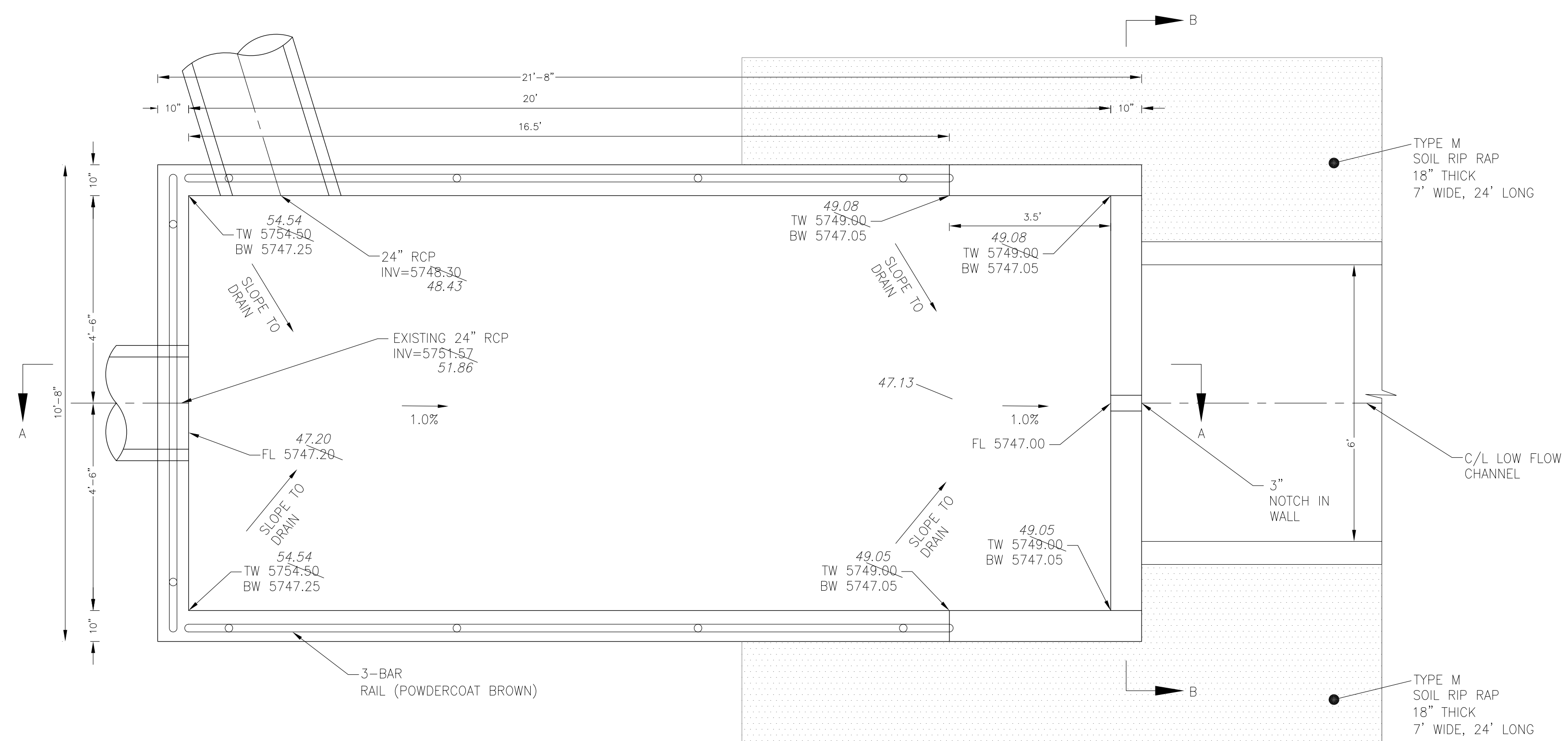
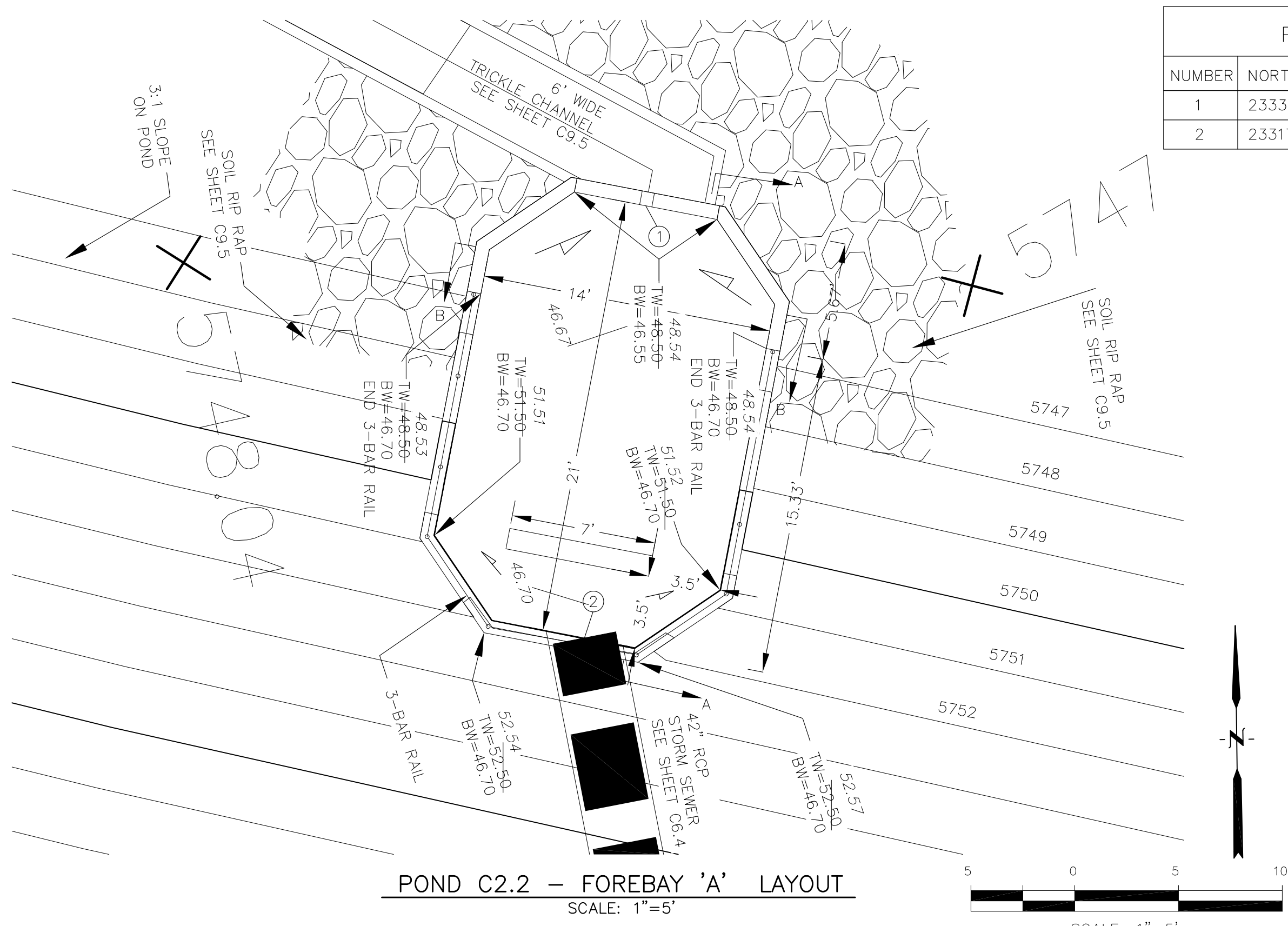


DATE: NOV 12, 2020  
 PROJECT NO. 100.061  
 SHEET NUMBER **C9.5**  
 TOTAL SHEETS: 58

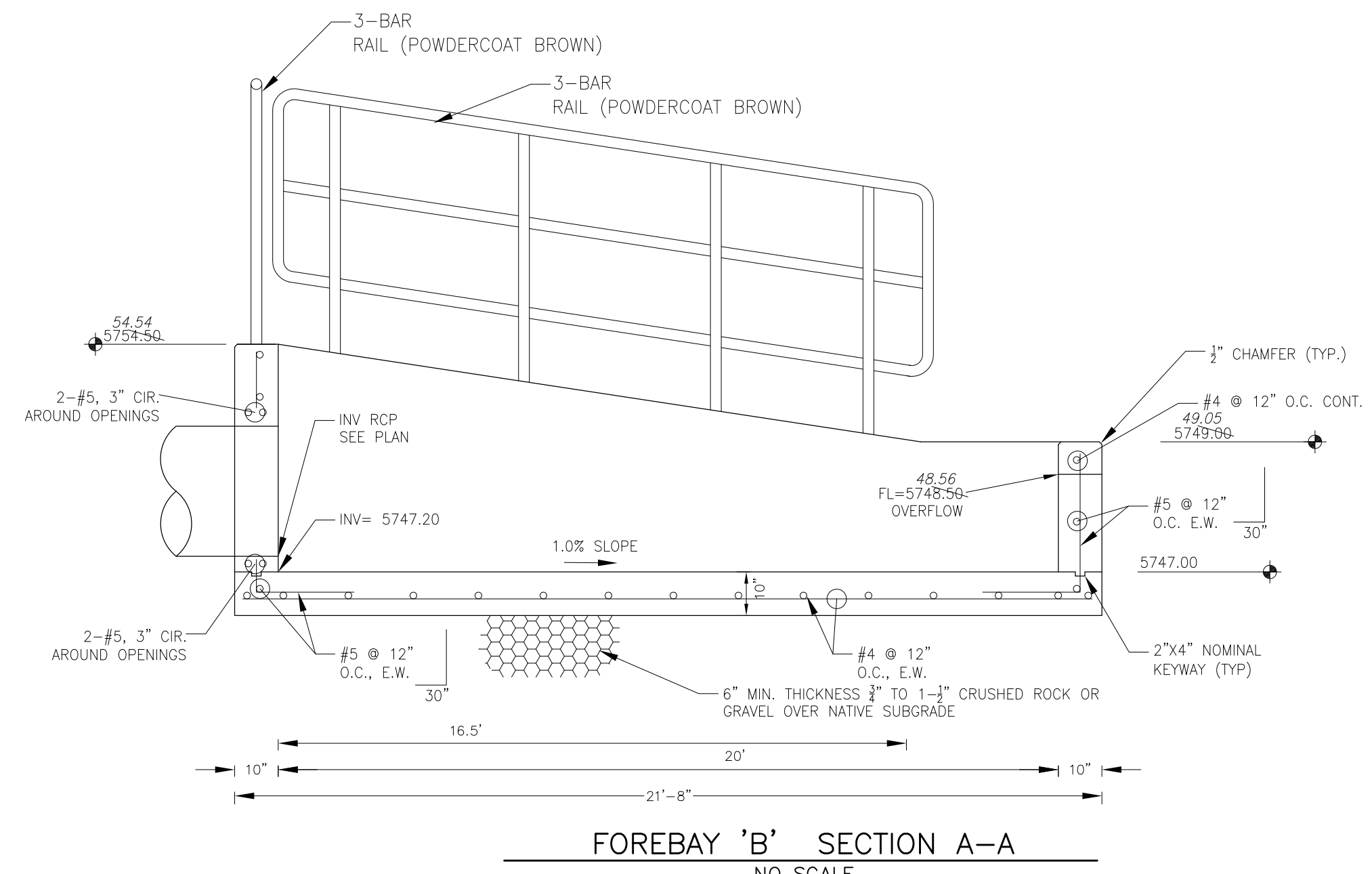
**AS-BUILT**  
 DATE: 09/30/2022



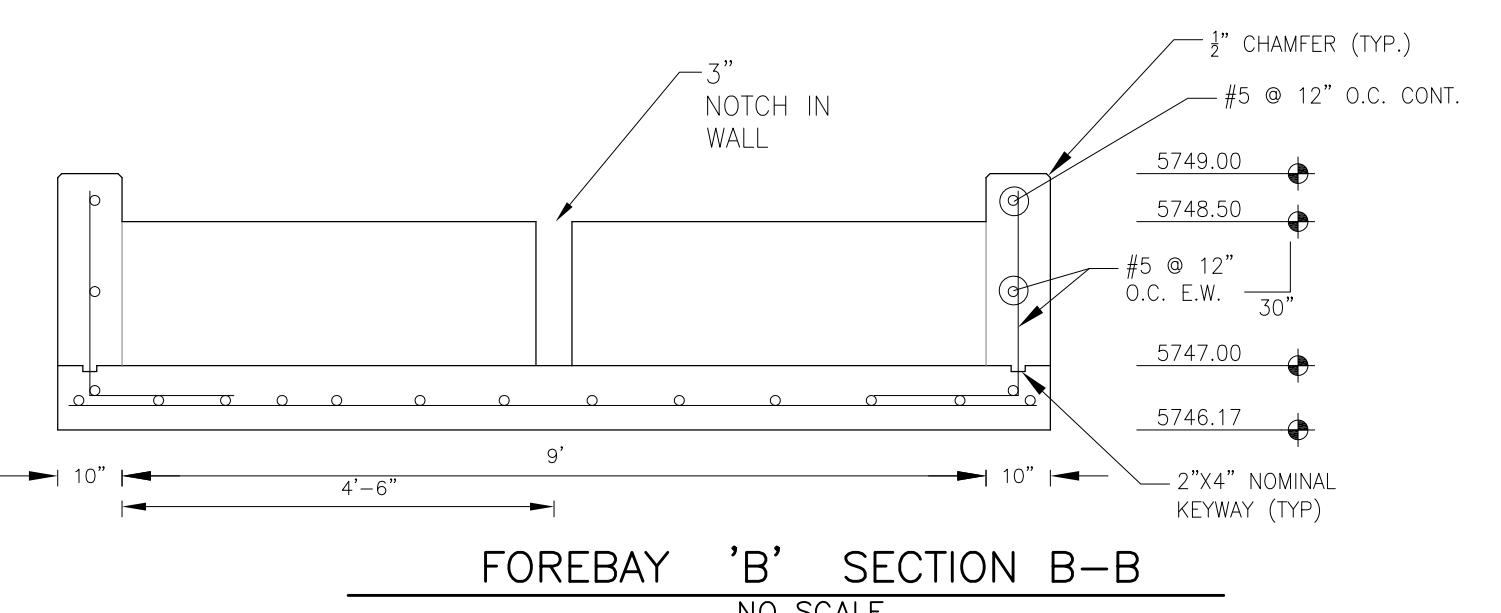
POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	23338.41	29100.32	5746.50	FOREBAY BOTTOM
2	23317.59	29097.36	5746.62	FOREBAY BOTTOM, INV 42"=5747.70



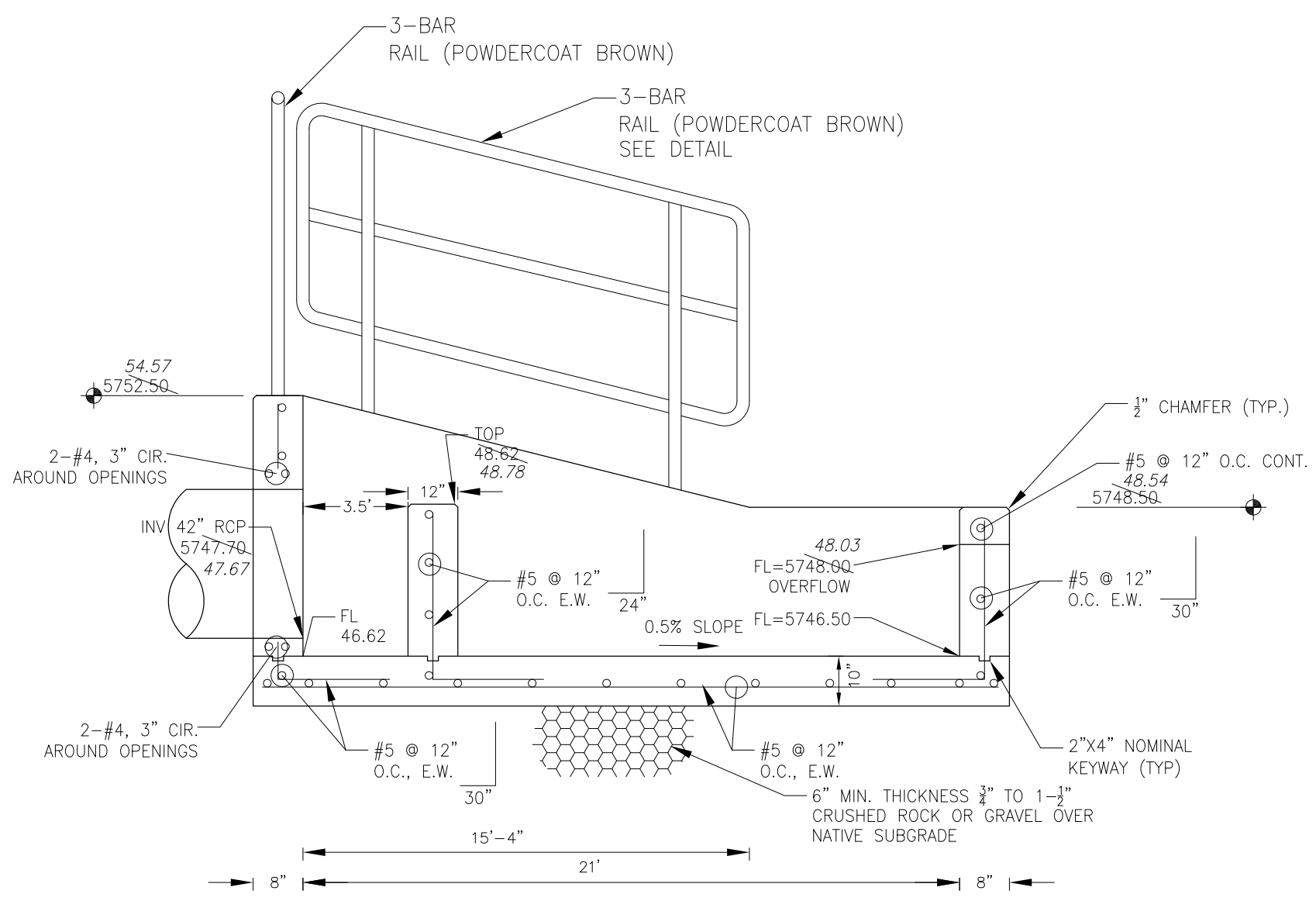
POND C2.2 - FOREBAY 'B' LAYOUT  
NO SCALE



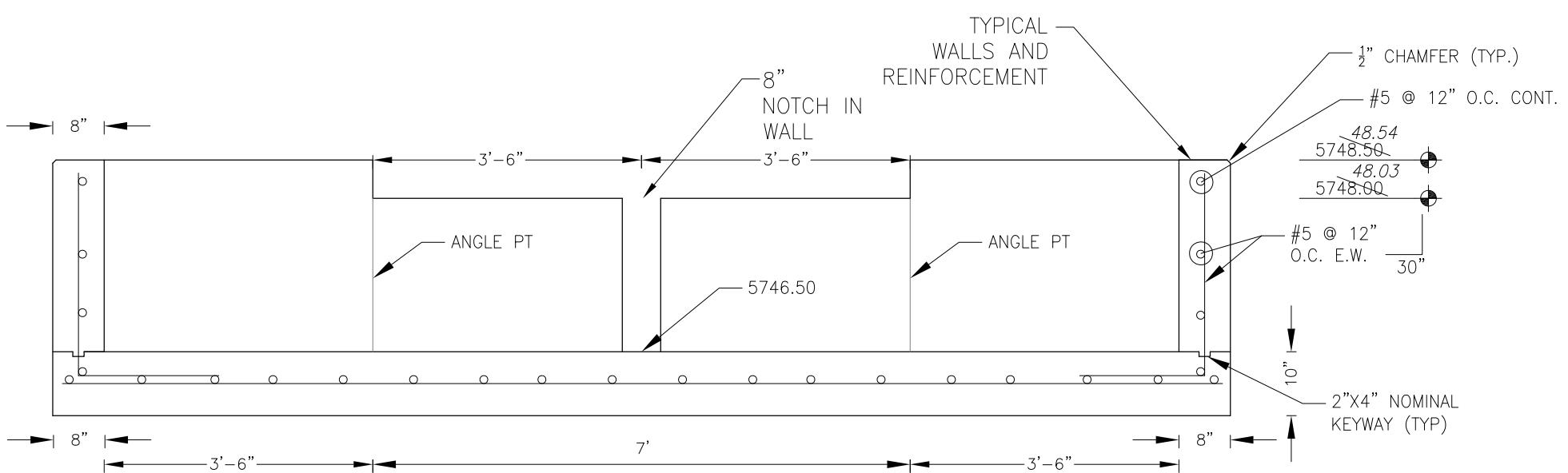
FOREBAY 'B' SECTION A-A  
NO SCALE



FOREBAY 'B' SECTION B-B  
NO SCALE



FOREBAY 'A' SECTION A-A  
NO SCALE



FOREBAY 'A' SECTION B-B  
NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

**CORE ENGINEERING GROUP**  
15004 151<sup>ST</sup> AVENUE, S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

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

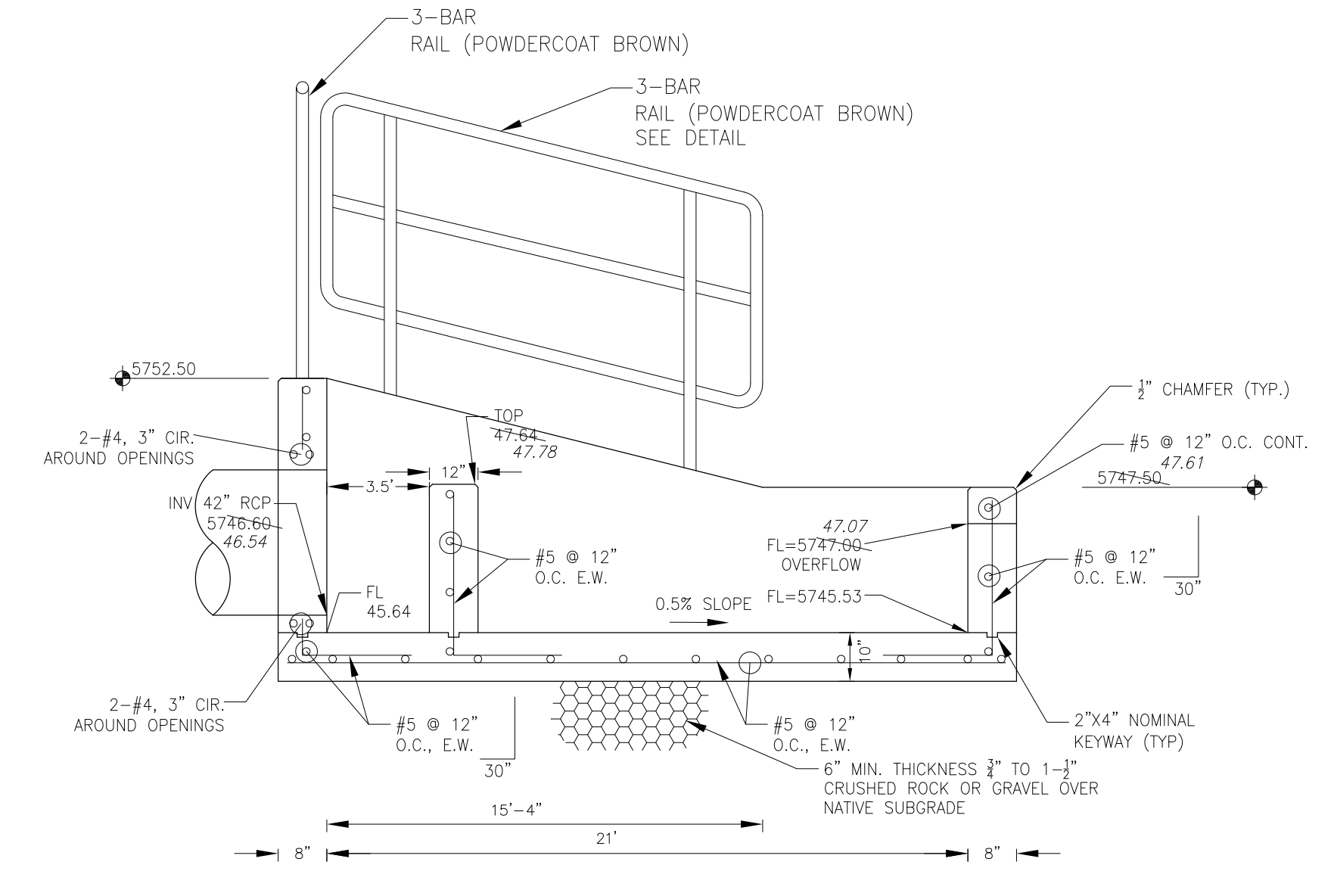
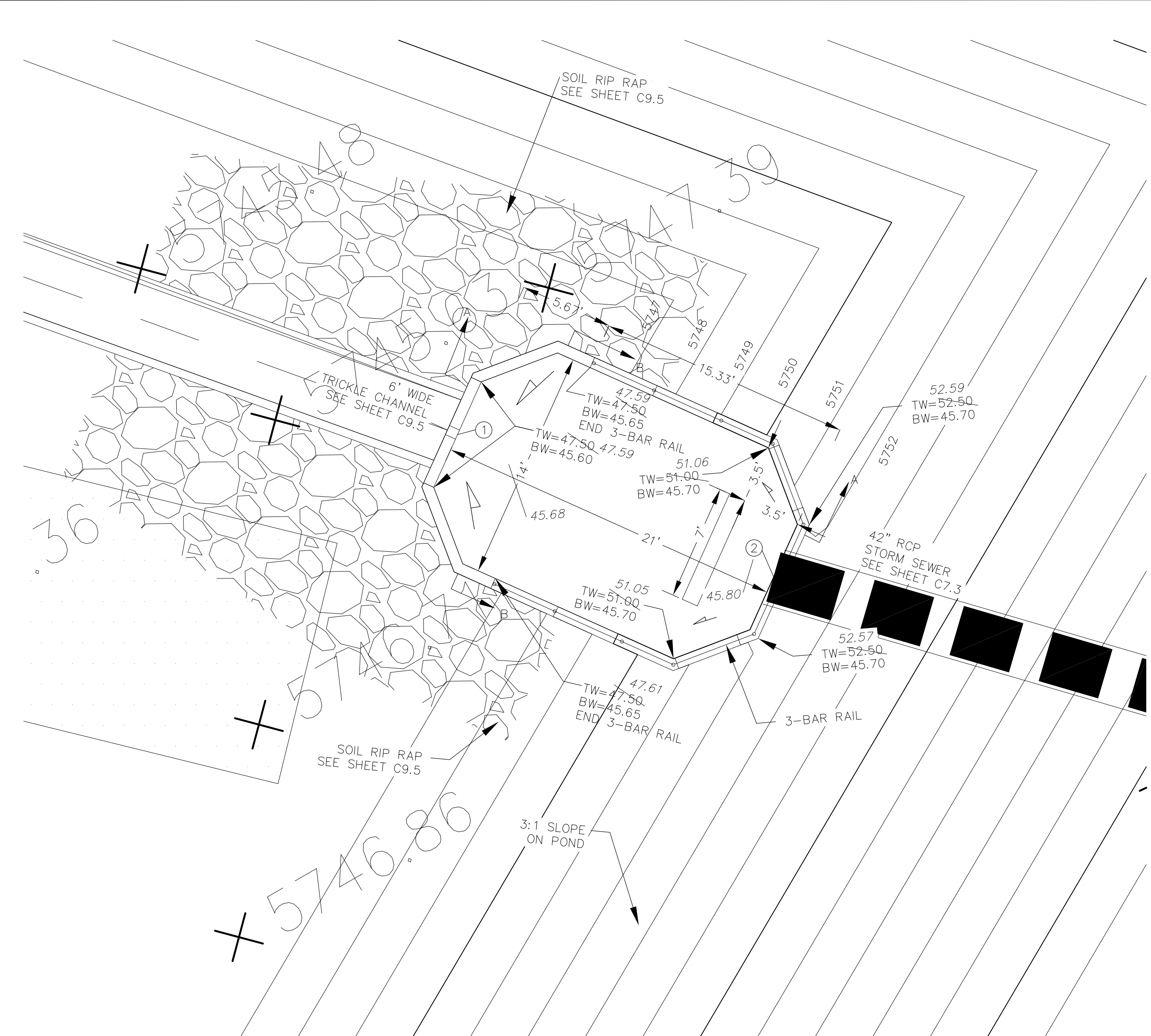
PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

POND C2.2  
FOREBAY DETAILS

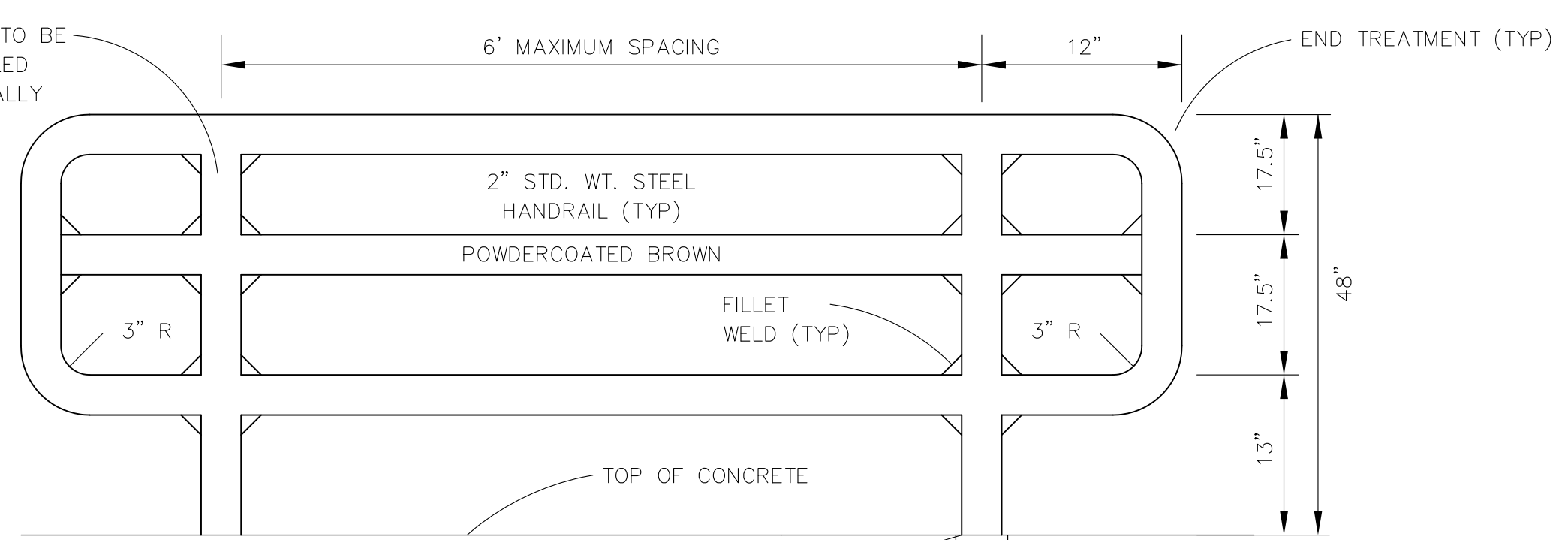
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PROJECT NO: 100.061  
SHEET NUMBER: C9.6  
TOTAL SHEETS: 58



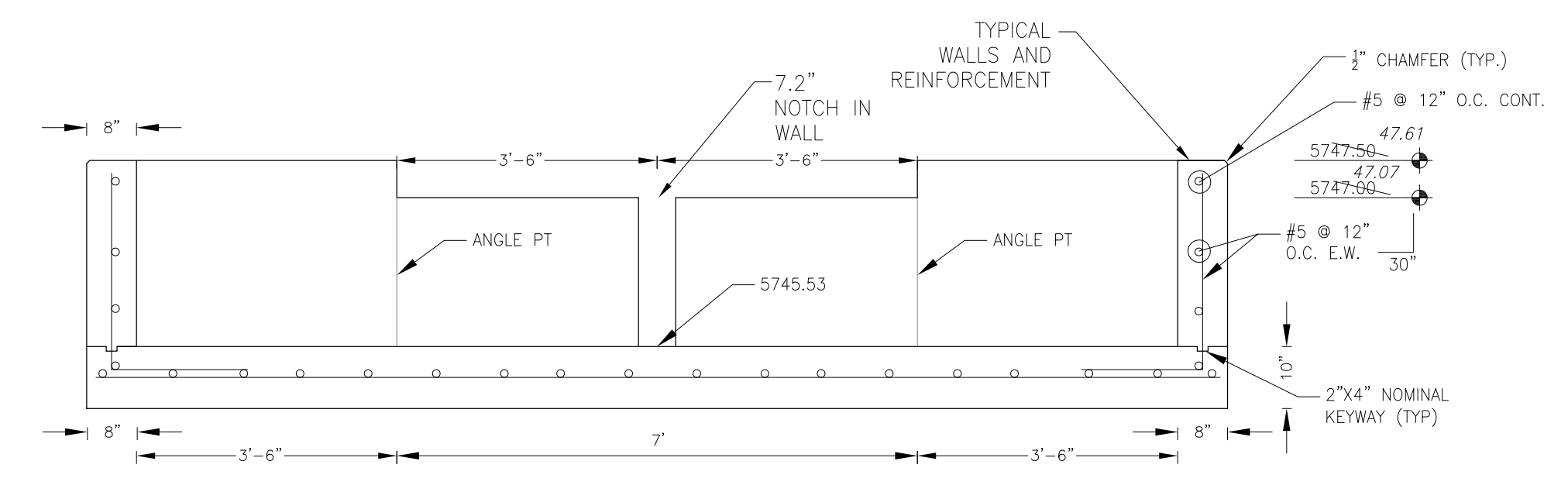
**AS-BUILT**  
DATE: 09/30/2022



**FOREBAY SECTION A-A**  
 NO SCALE



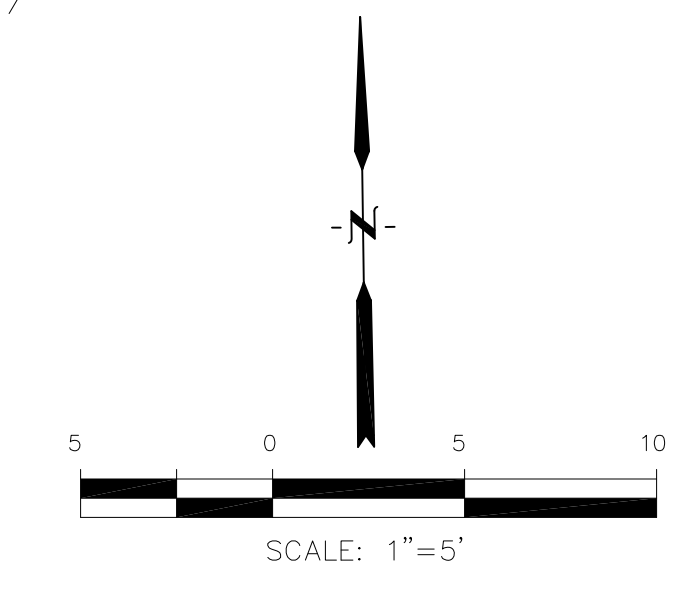
**3-BAR RAIL DETAIL**  
 NO SCALE



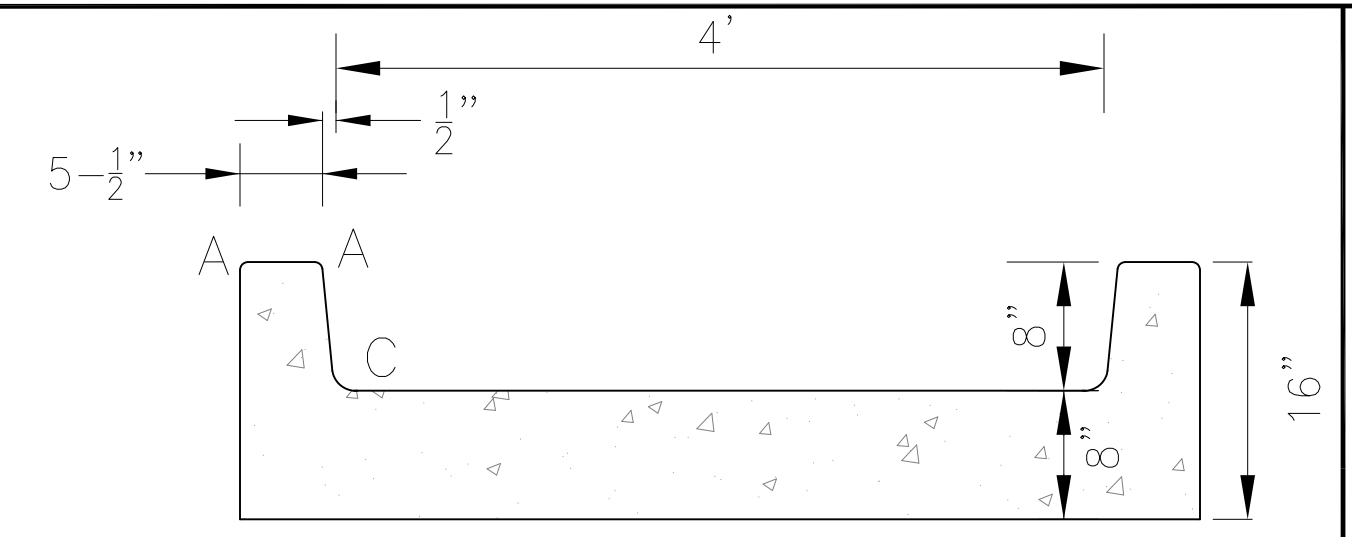
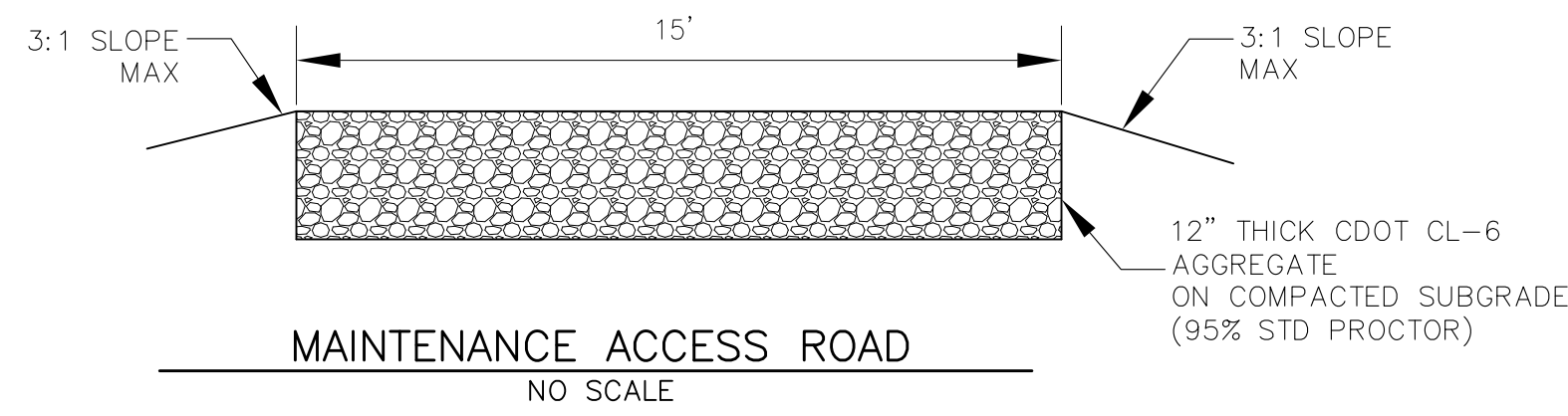
**FOREBAY SECTION B-B**  
 NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

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\"/>

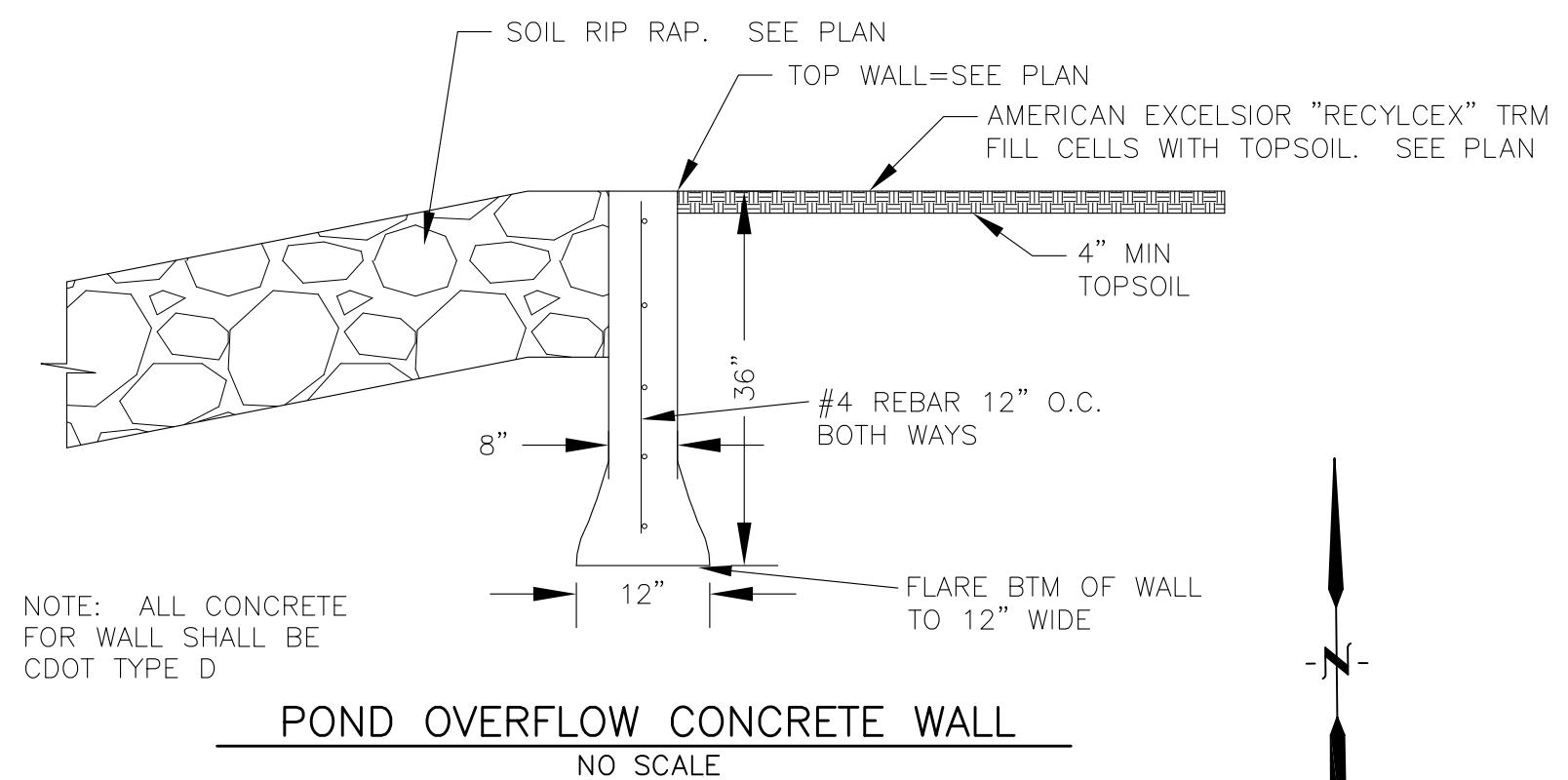
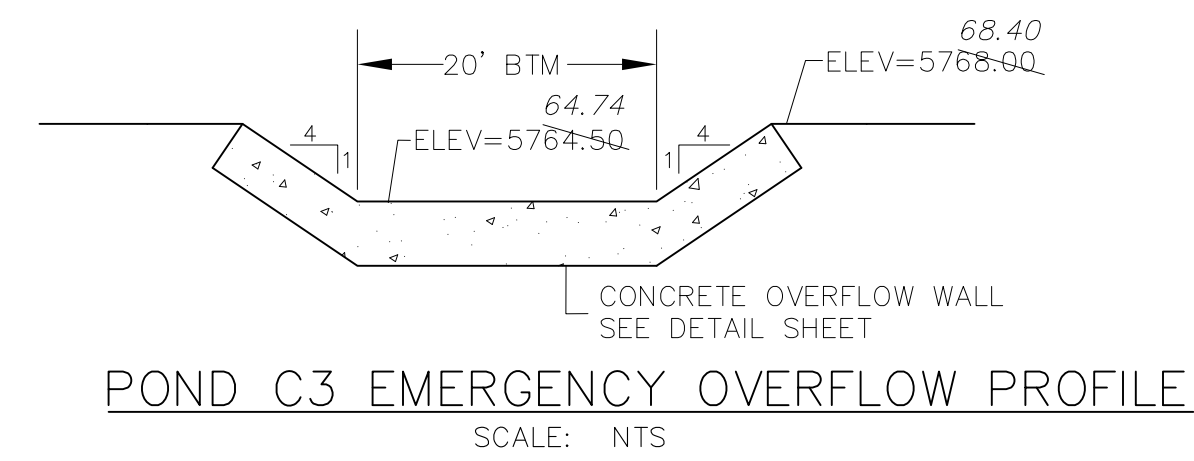


**AS-BUILT**  
 DATE: 09/30/2022

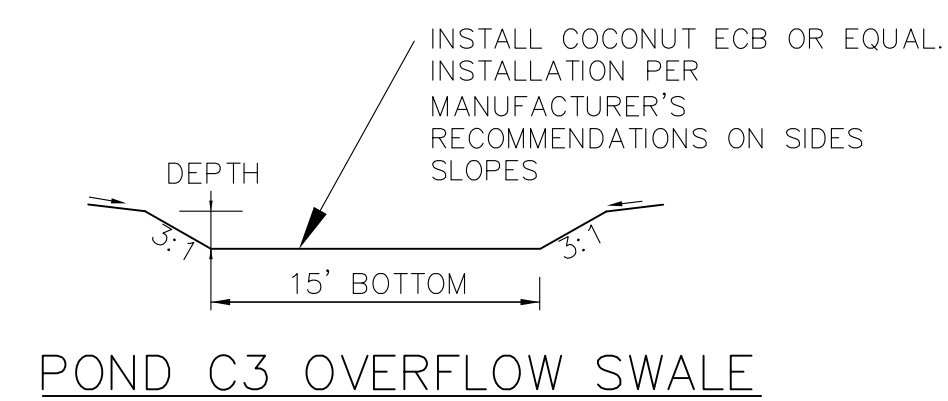


LENGTH FOR RADII	
A	= 1/2"
C	= 1-1/2"

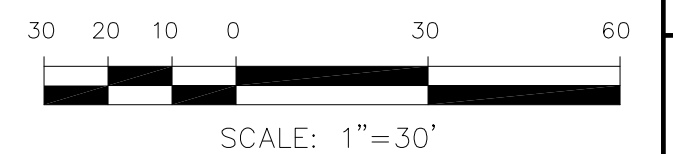
EXISTING POND C3 SEE LORSON RANCH EAST FIL. 2 GRADING PLAN SF 18-009



NOTE: ALL CONCRETE FOR WALL SHALL BE CDOT TYPE D



AS-BUILT  
DATE: 09/30/2022



**CORE ENGINEERING GROUP**  
19004 151<sup>ST</sup> AVENUE S.  
PHOENIX, AZ 85066  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cegi.com

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

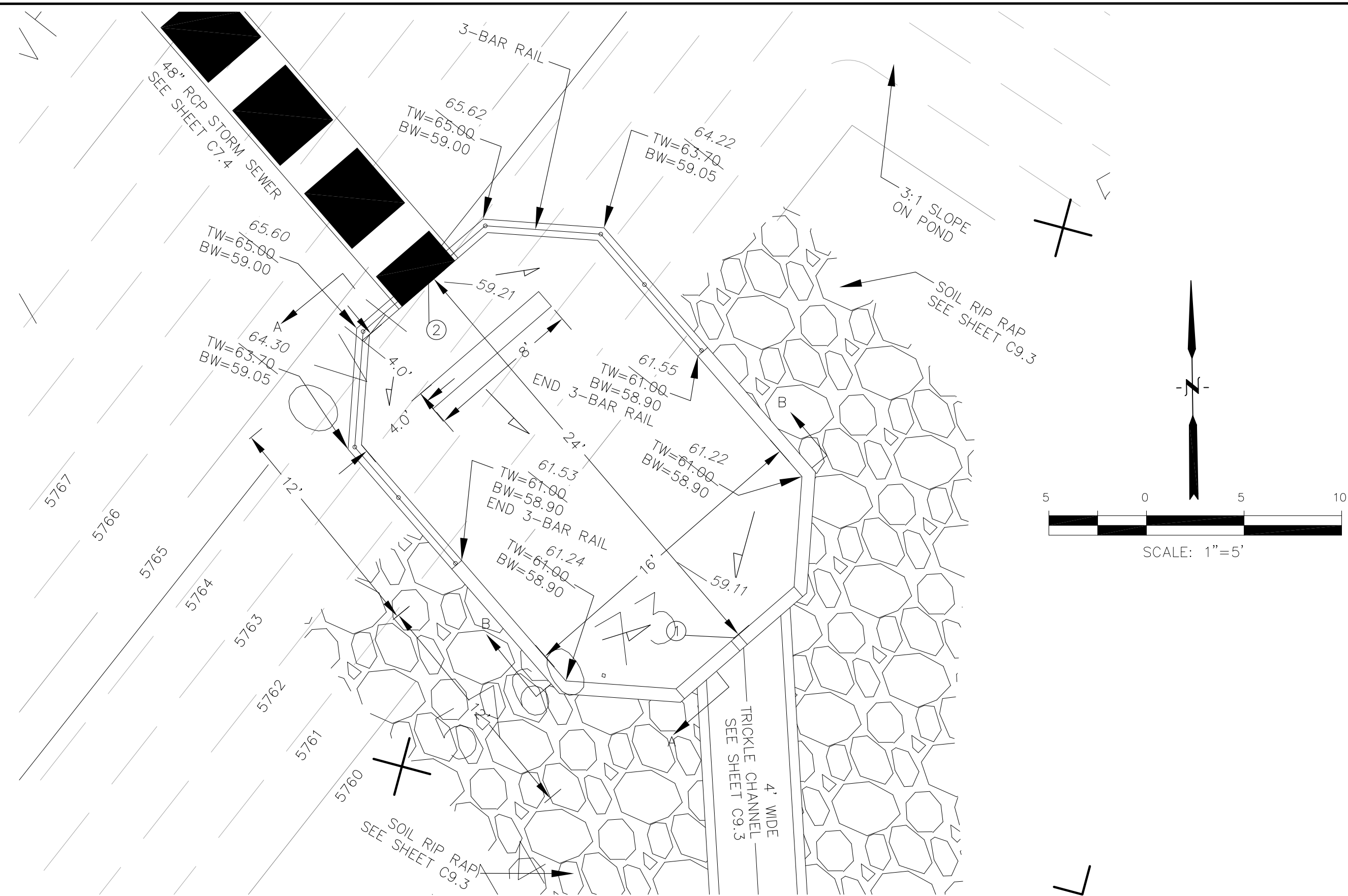
PROJECT:  
**THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

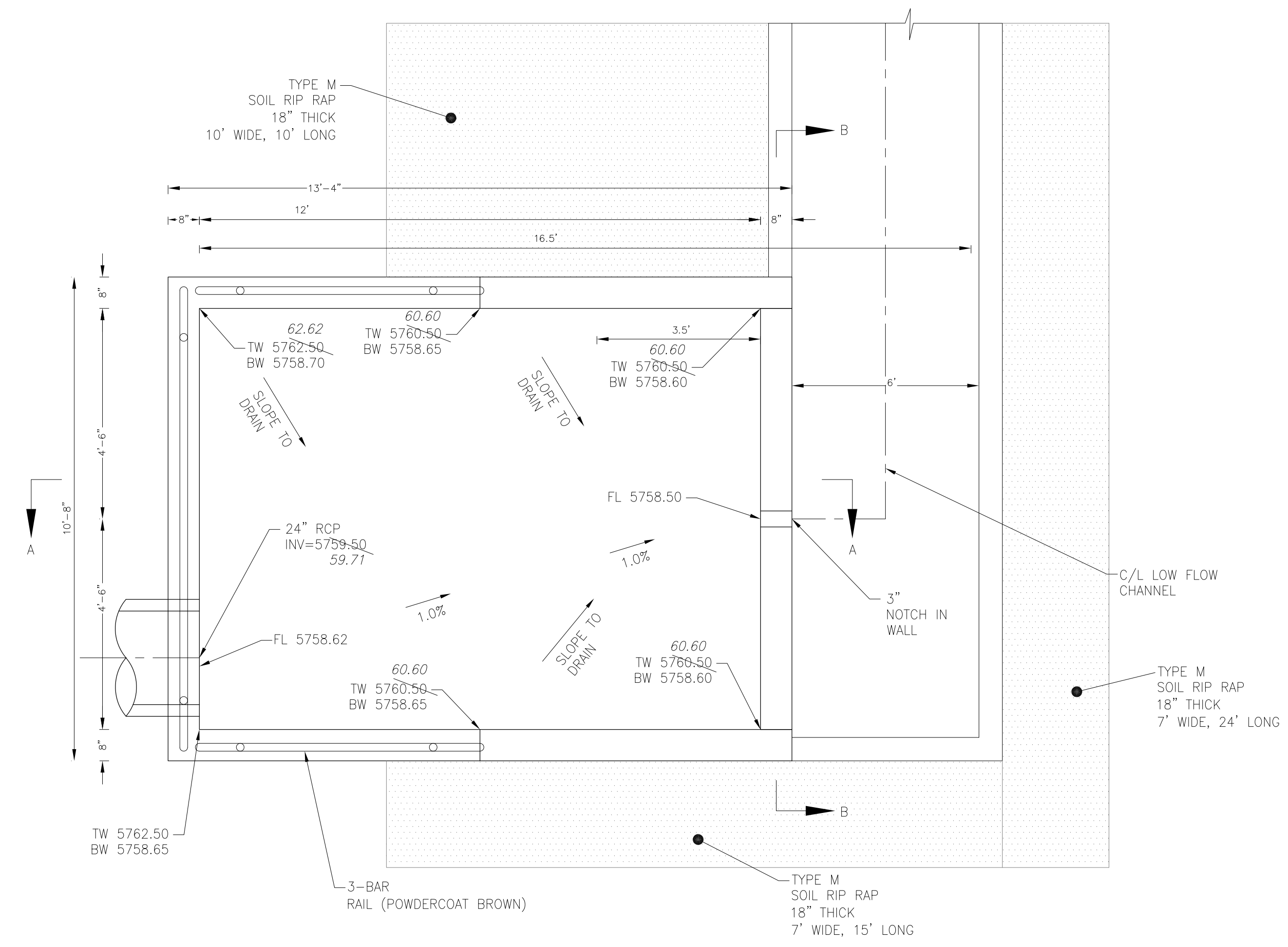
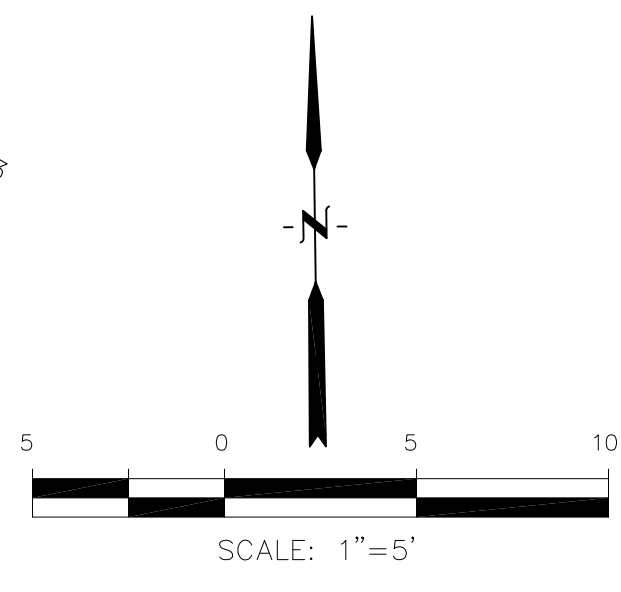
**POND C3 FOREBAY, LOW FLOW CHANNEL AND OUTLET STRUCTURE LAYOUT**



DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER **C9.8**  
TOTAL SHEETS: 58

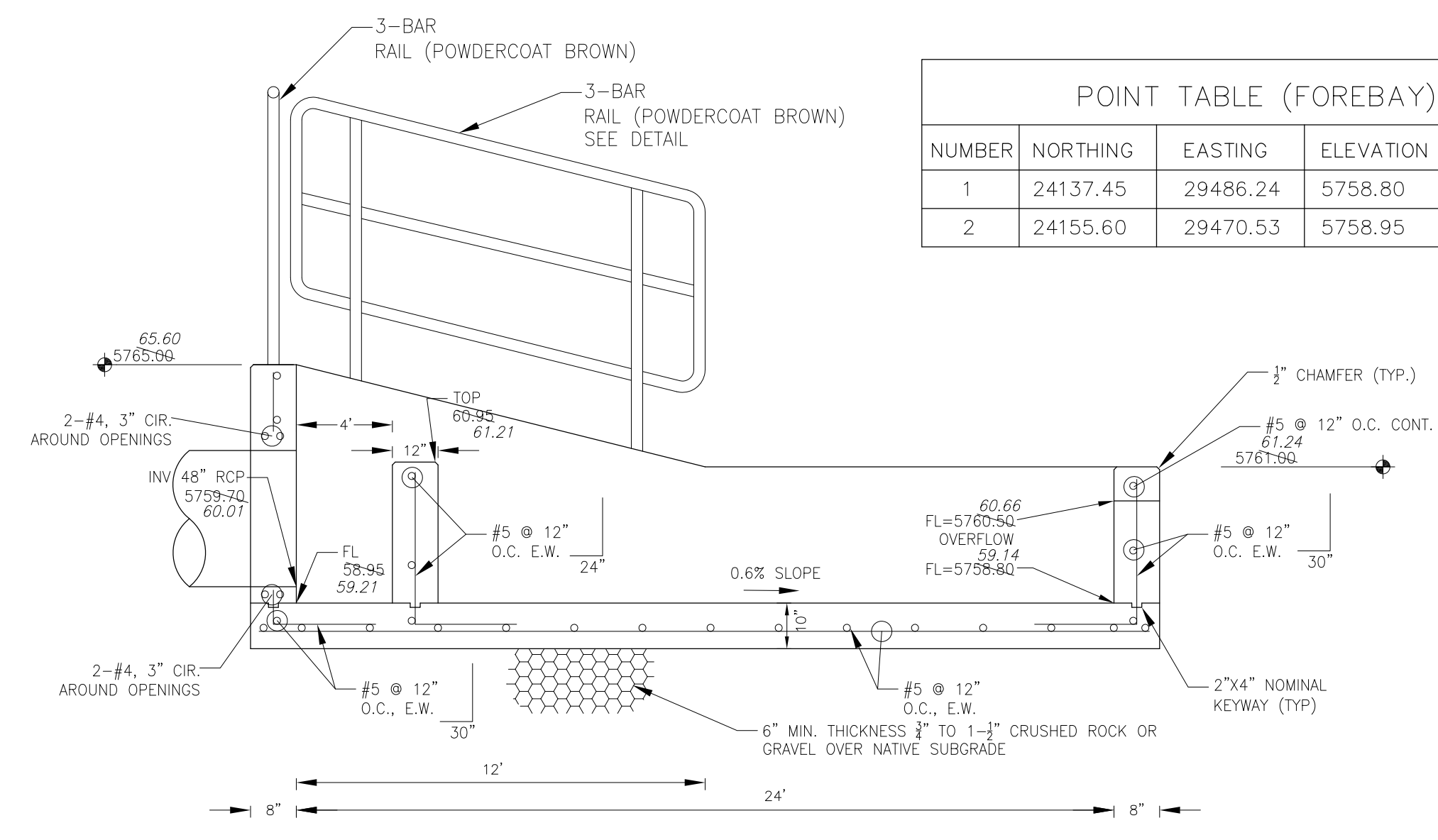


POND C3 - FOREBAY 'A' LAYOUT  
SCALE: 1"=5'

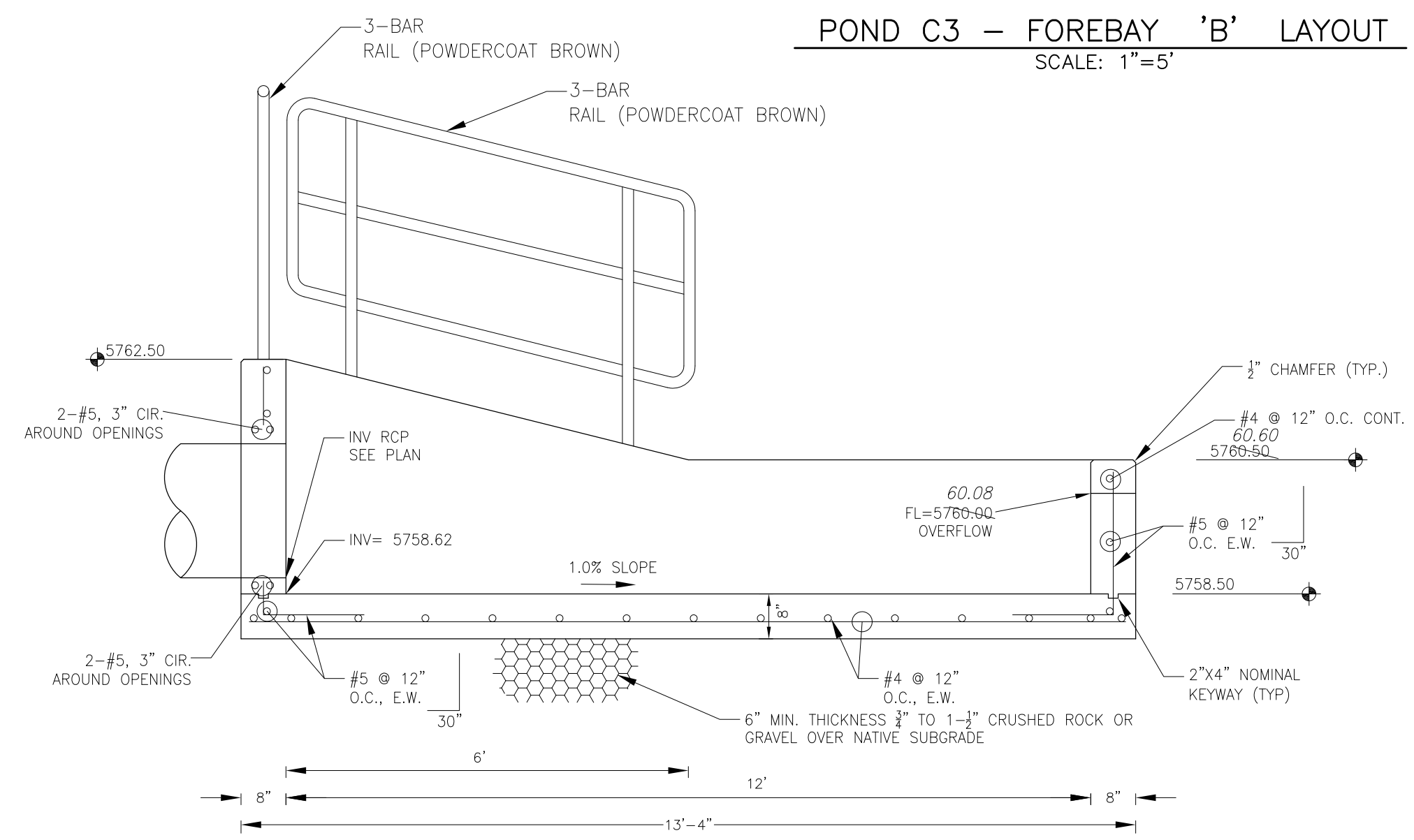


POND C3 - FOREBAY 'B' LAYOUT  
SCALE: 1"=5'

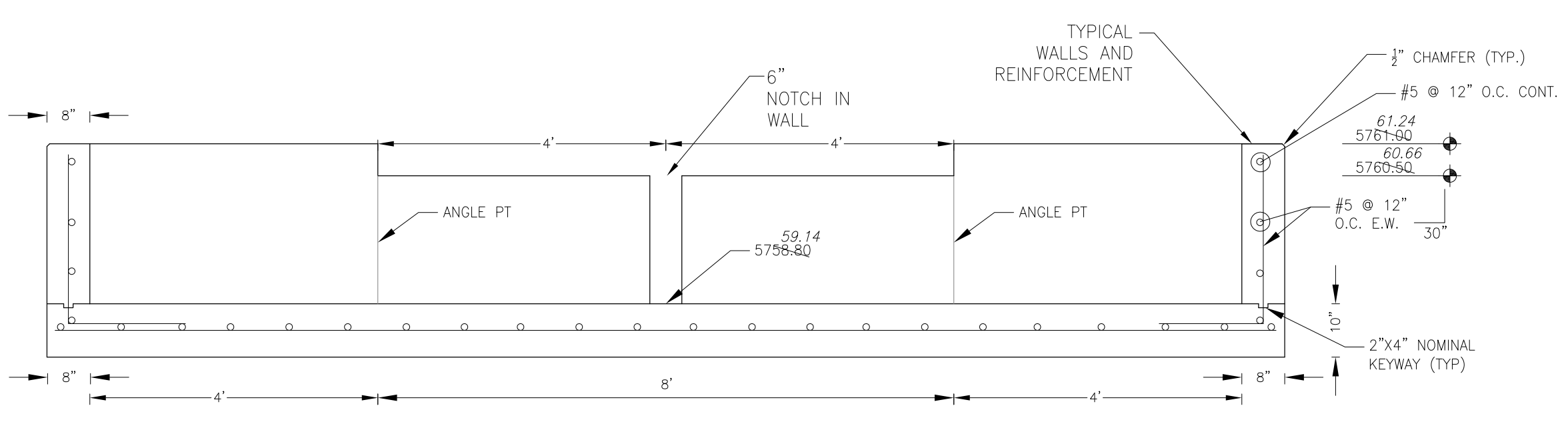
POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	24137.45	29486.24	5758.80	FOREBAY BOTTOM
2	24155.60	29470.53	5758.95	FOREBAY BOTTOM, INV 48"=5759.70



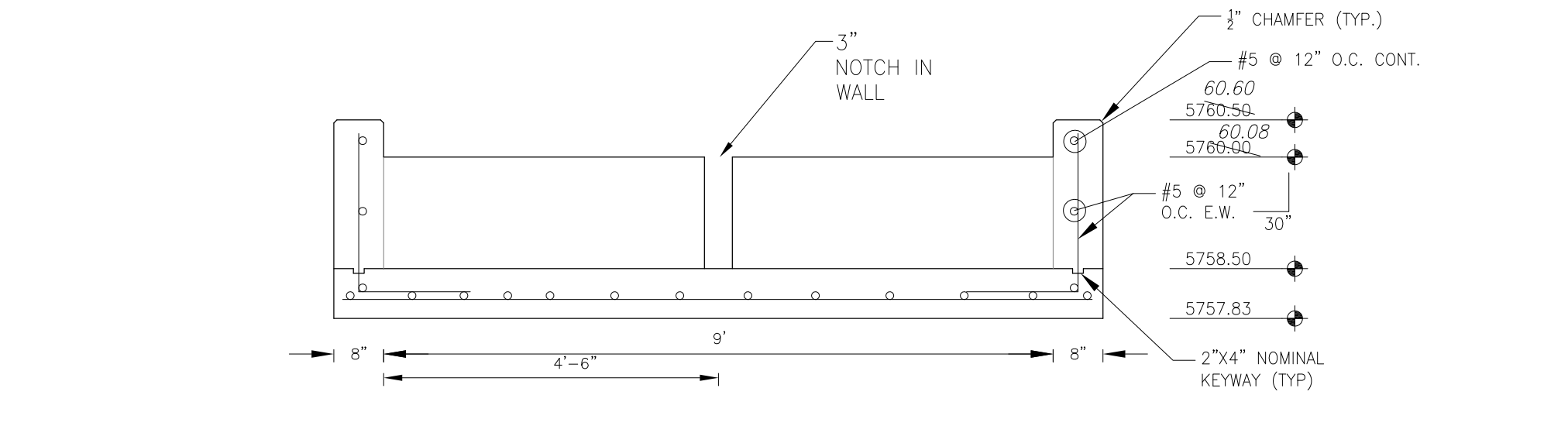
FOREBAY 'A' SECTION A-A  
NO SCALE



FOREBAY 'B' SECTION A-A  
NO SCALE



FOREBAY 'A' SECTION B-B  
NO SCALE



FOREBAY 'B' SECTION B-B  
NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D

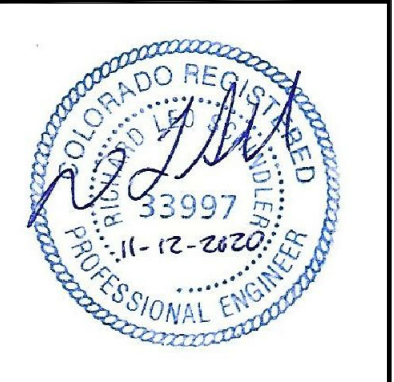
AS-BUILT  
DATE: 09/30/2022

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80232  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

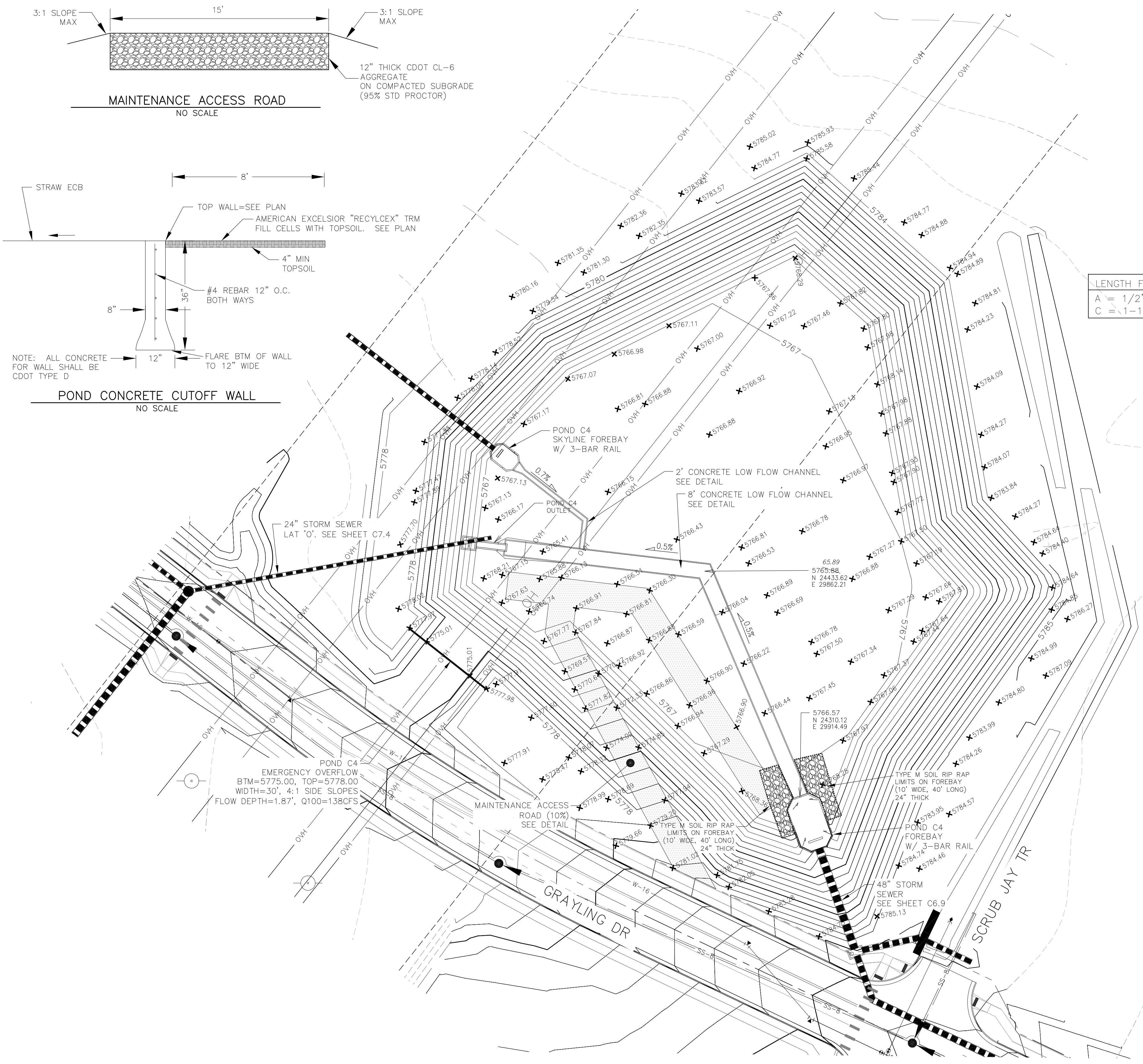
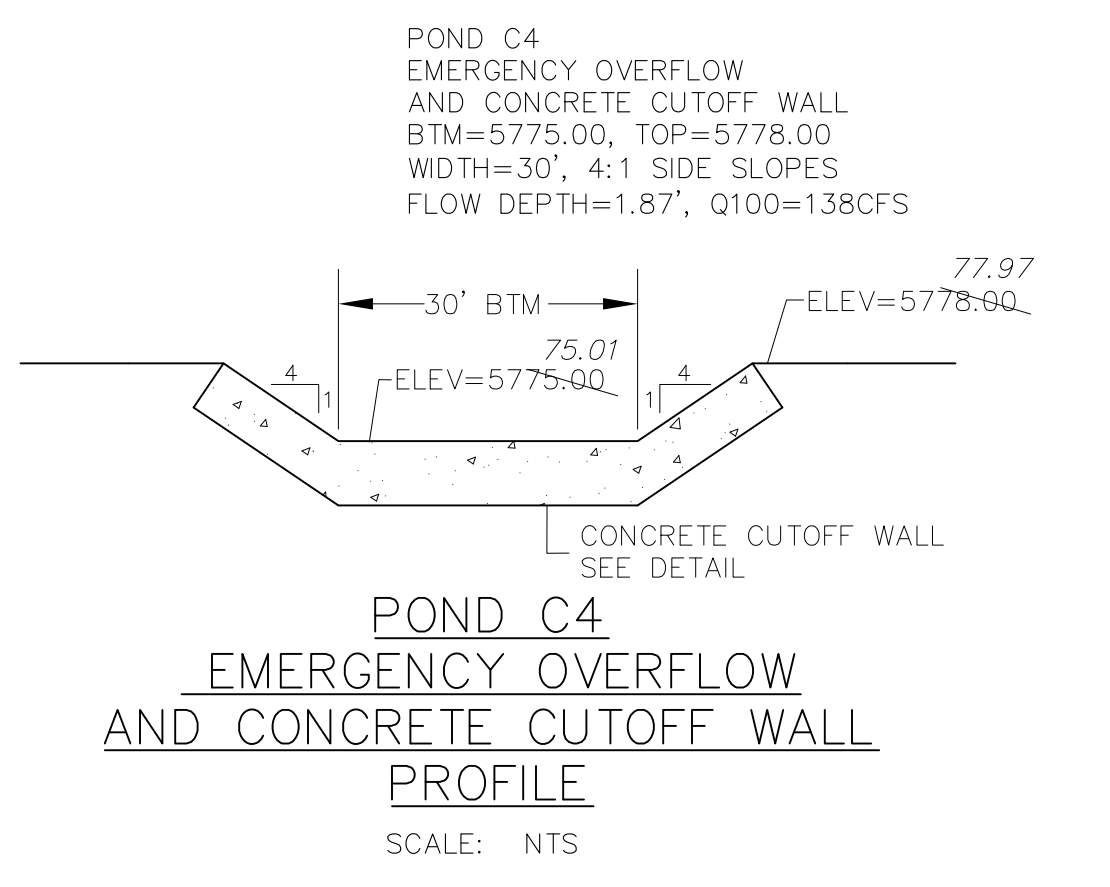
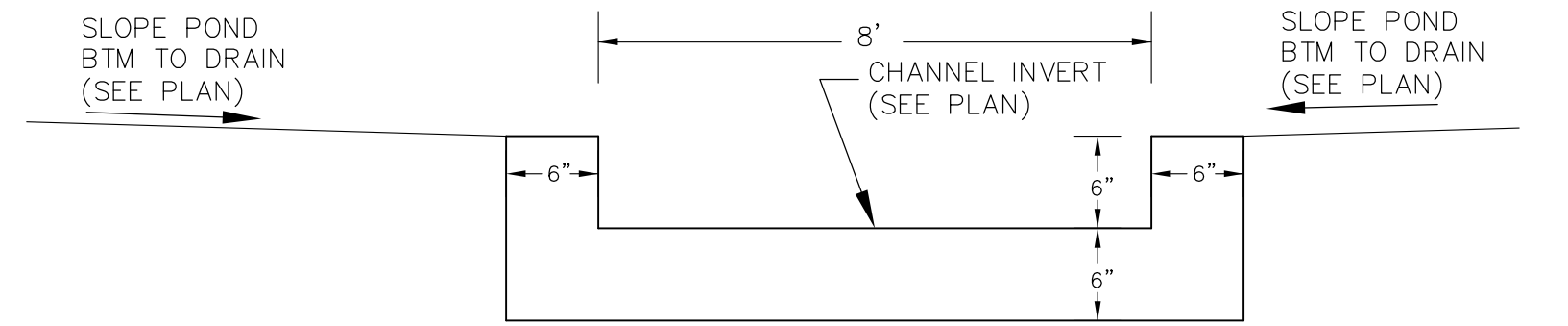
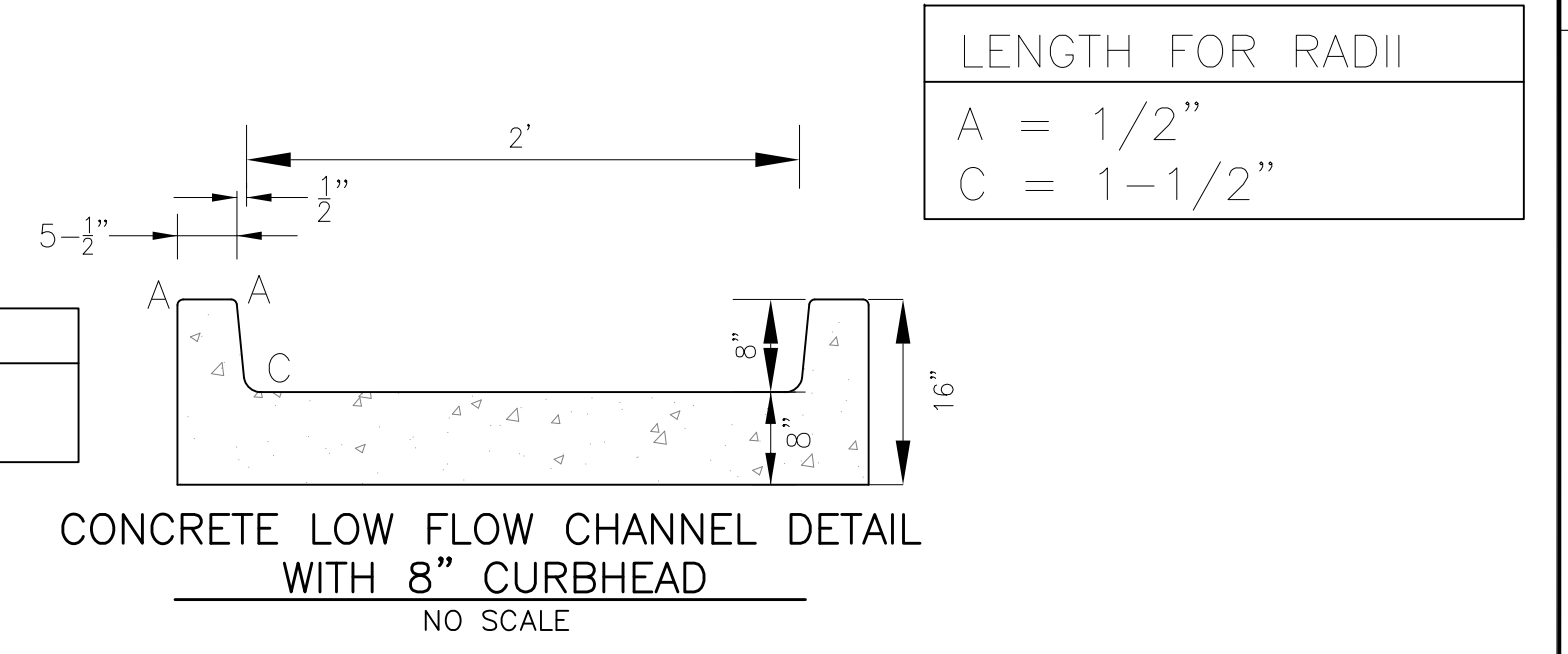
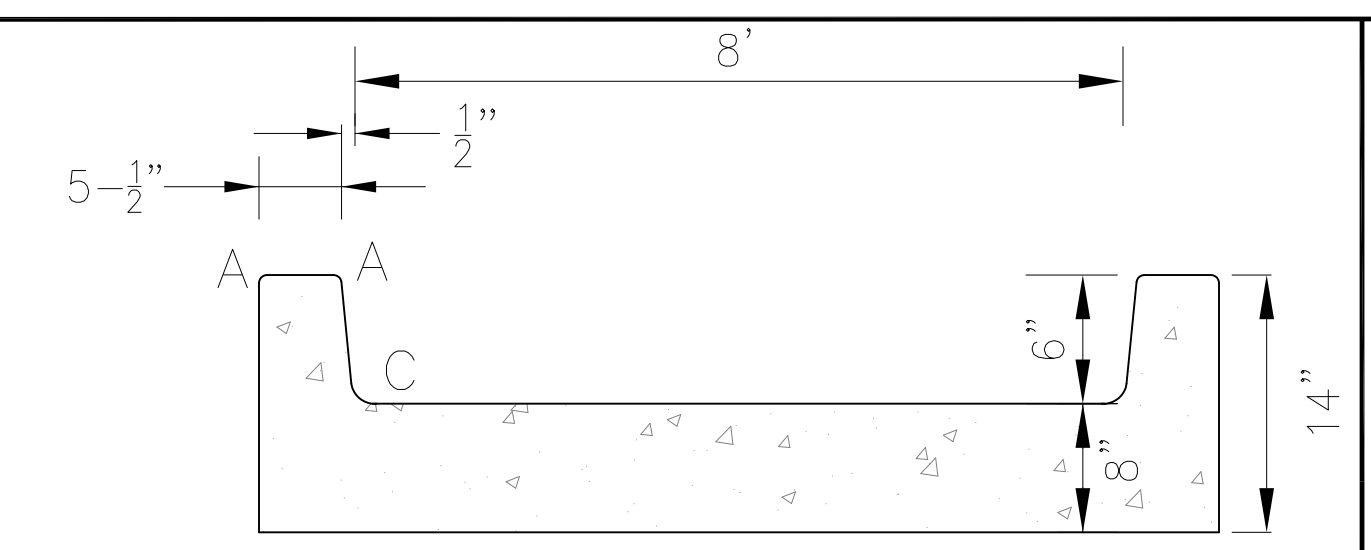
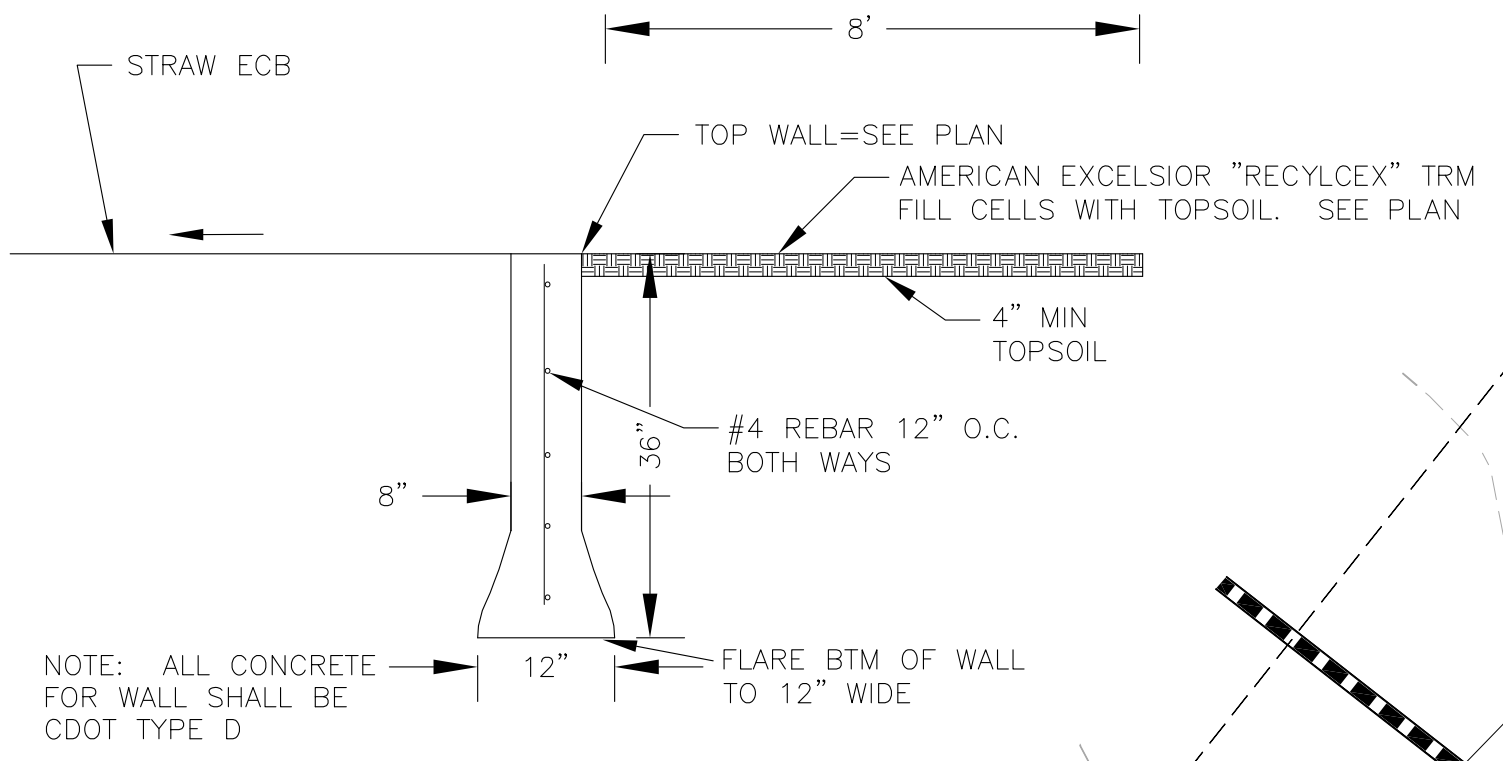
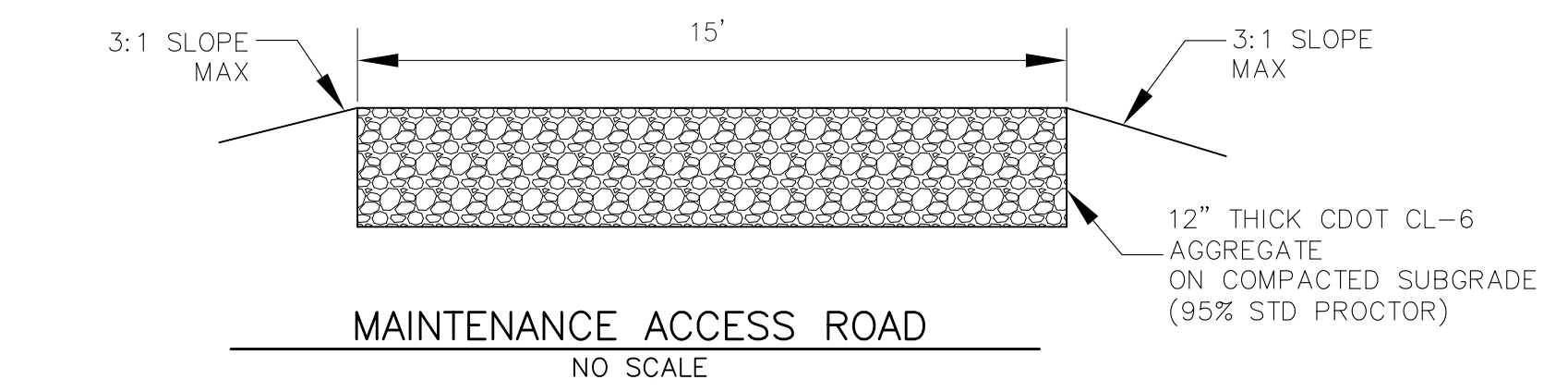
DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS  
PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD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

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

POND C3  
FOREBAY DETAILS



DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C9.9  
TOTAL SHEETS: 58



**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BLDG 719 570 1100  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
 DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
 NO. 1.  
 PREPARED FOR: **LORSON, LLC**  
 212 N. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-3200  
 CONTACT: JEFF MARK

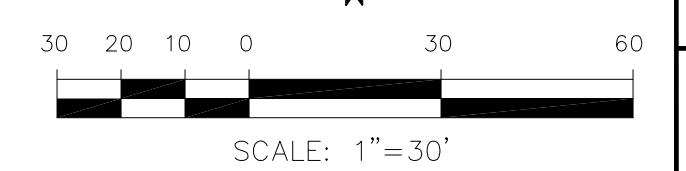
DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

**POND C4 FOREBAY & LOW FLOW CHANNEL LAYOUT**

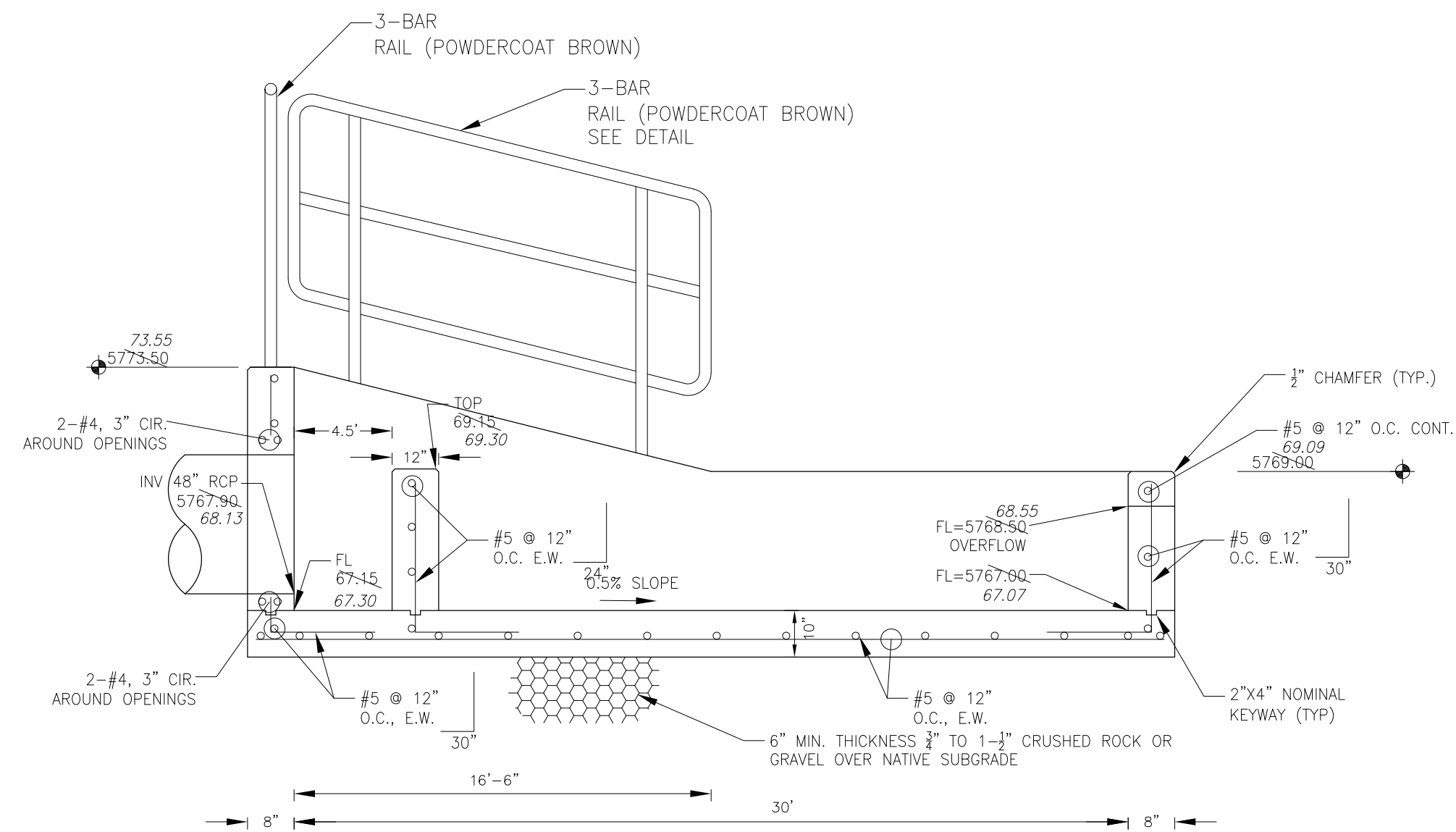


DATE: NOV 12, 2020  
 PROJECT NO: 100.061  
 SHEET NUMBER: C9.10  
 TOTAL SHEETS: 58

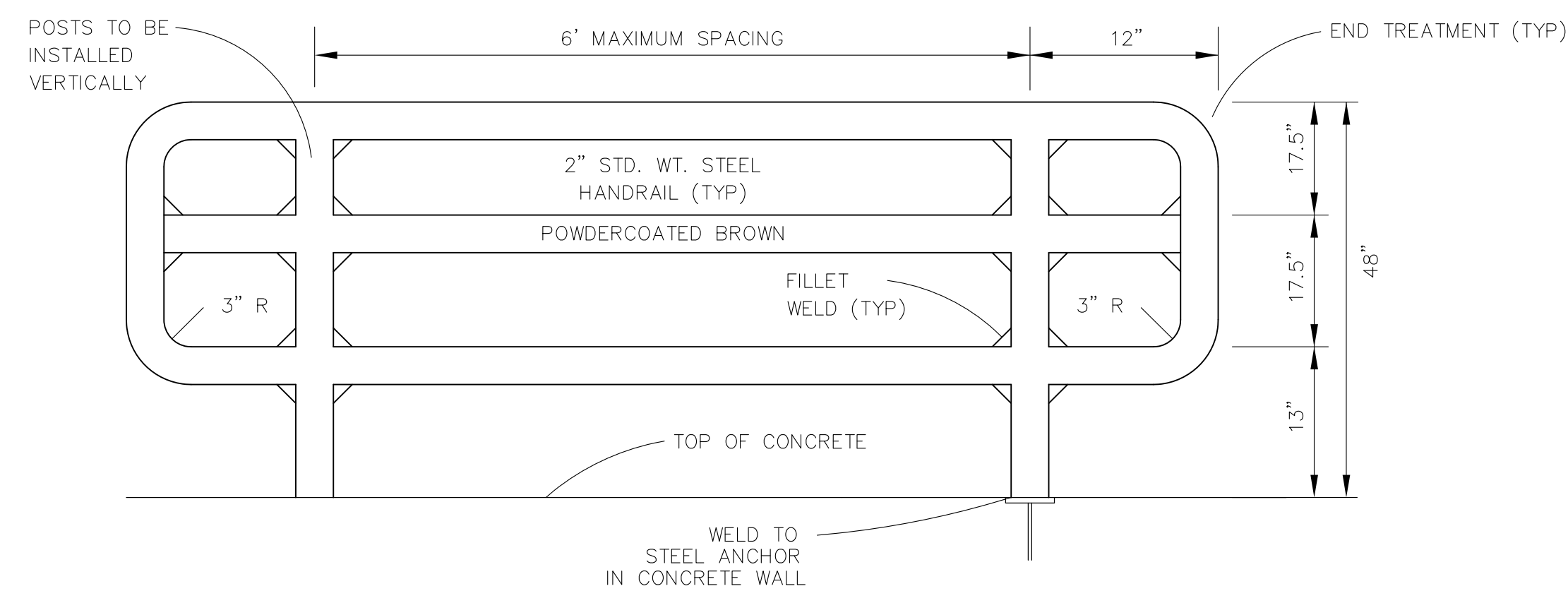
**AS-BUILT**  
 DATE: 09/30/2022



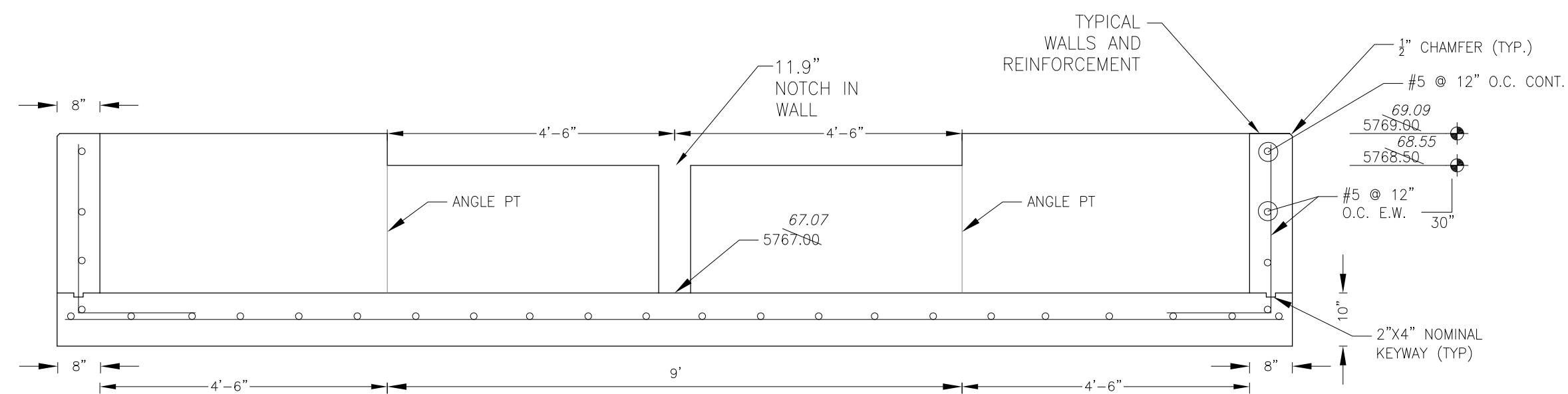




FOREBAY SECTION A-A  
NO SCALE

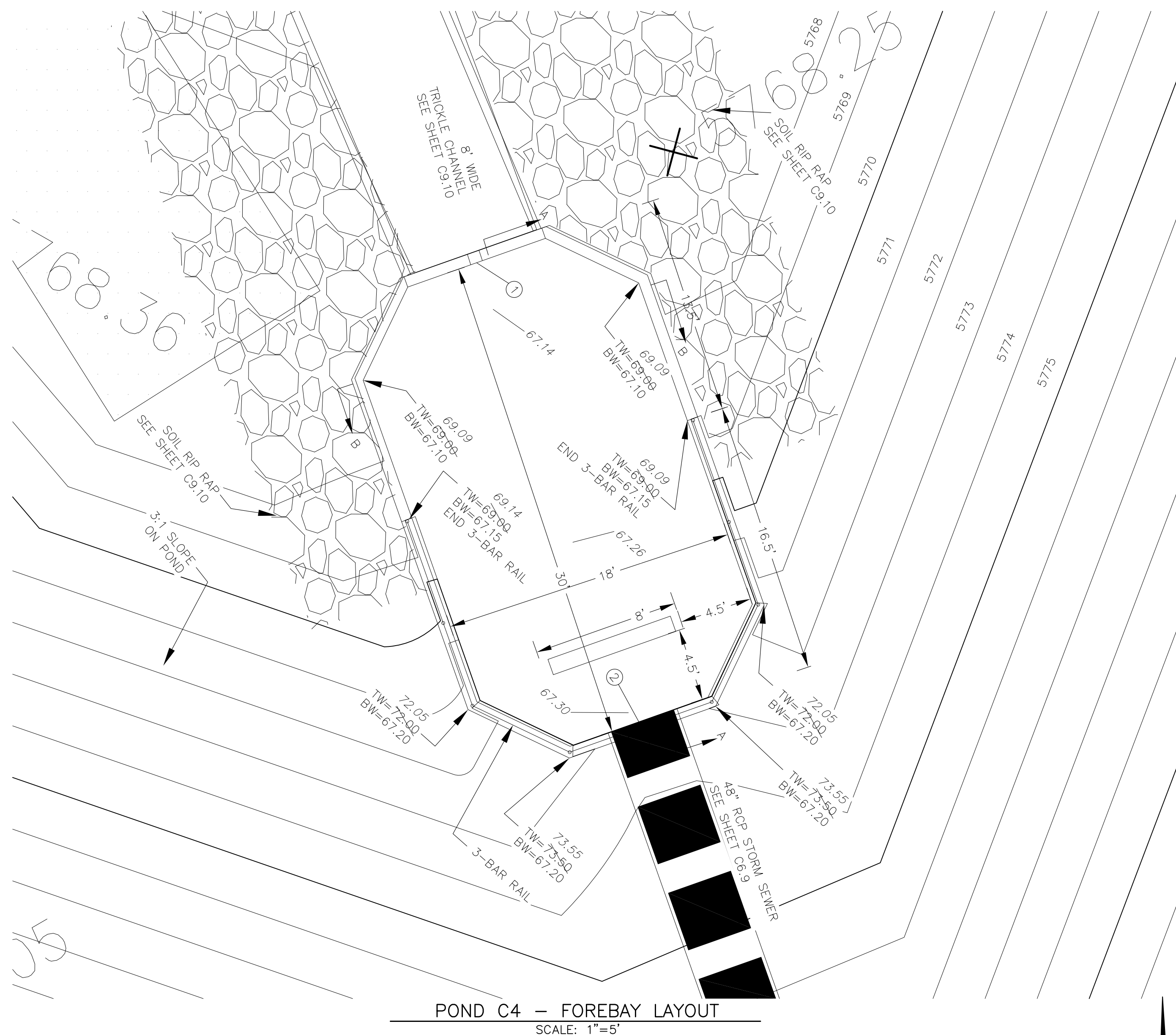


3-BAR RAIL DETAIL  
NO SCALE

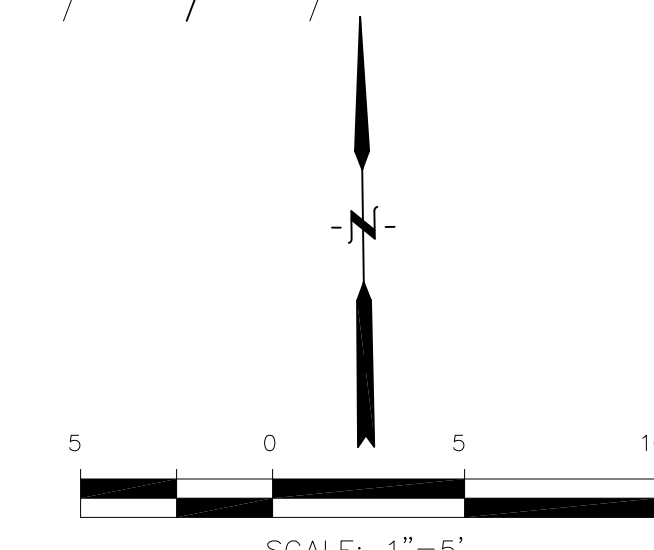


FOREBAY SECTION B-B  
NO SCALE

NOTE: ALL CONCRETE FOR FOREBAY SHALL BE CDOT TYPE D



POND C4 - FOREBAY LAYOUT  
SCALE: 1"=5'



POINT TABLE (FOREBAY)				
NUMBER	NORTHING	EASTING	ELEVATION	NOTES
1	24309.51	29914.77	5767.00	FOREBAY BOTTOM
2	24281.30	29924.99	5767.15	FOREBAY BOTTOM, INV 48"=5767.90

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE, S.  
DENVER, CO 80202  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@ceg1.com

DATE: JAN 12, 2021  
DESCRIPTION: RAISE SITE 1' EAST OF POWERLINES  
NO. 1

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

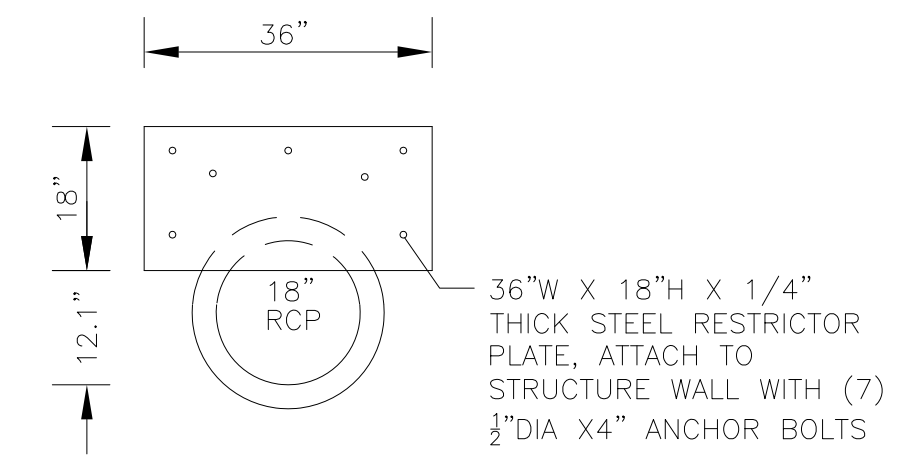
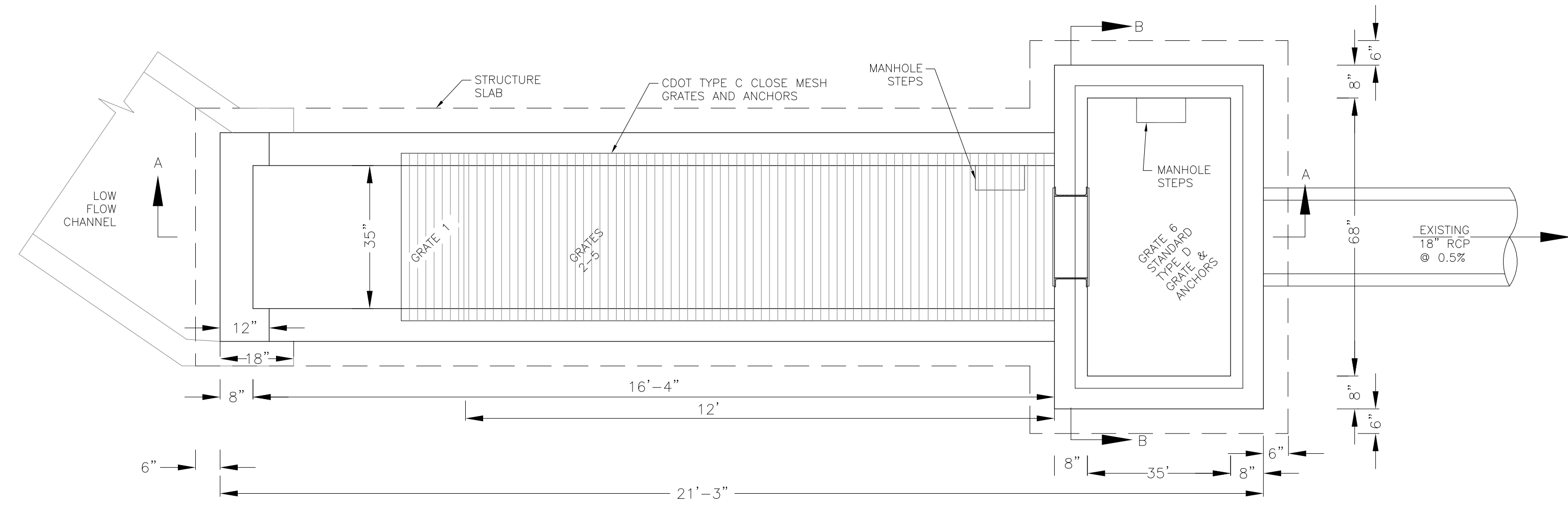
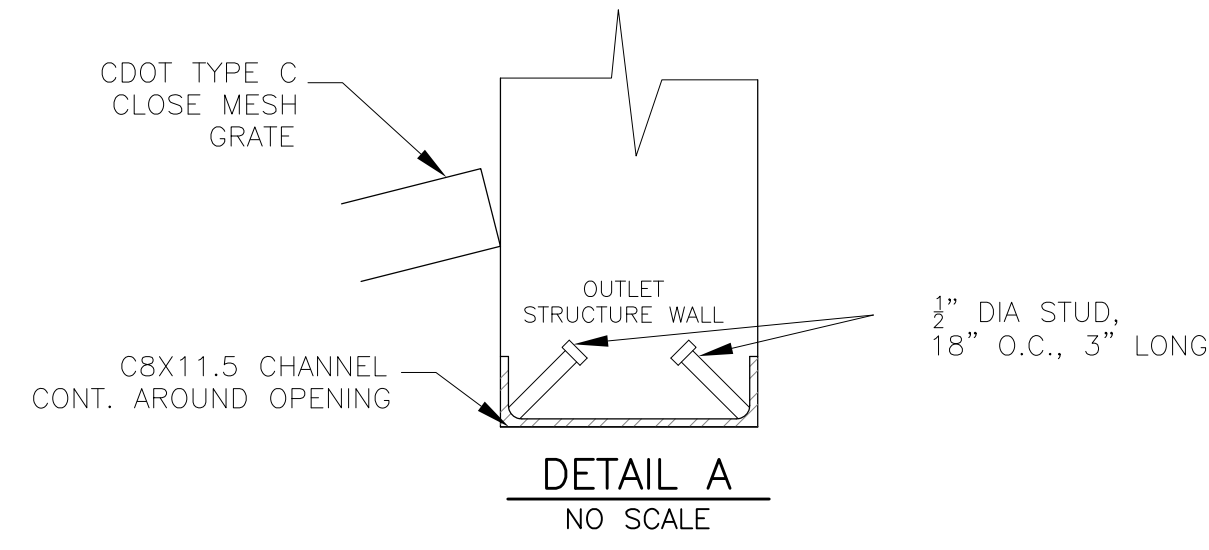
DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

POND C4  
FOREBAY DETAILS

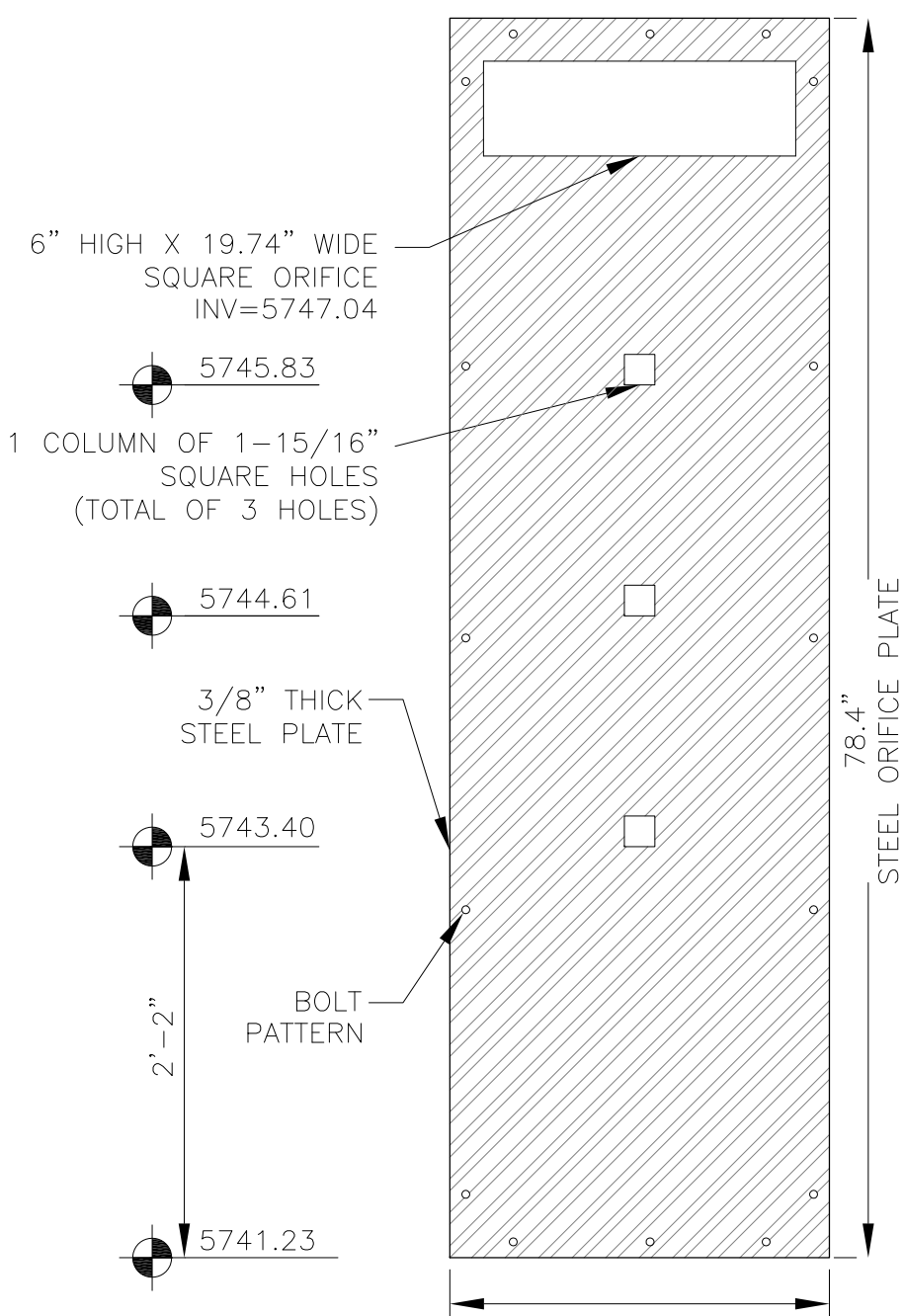
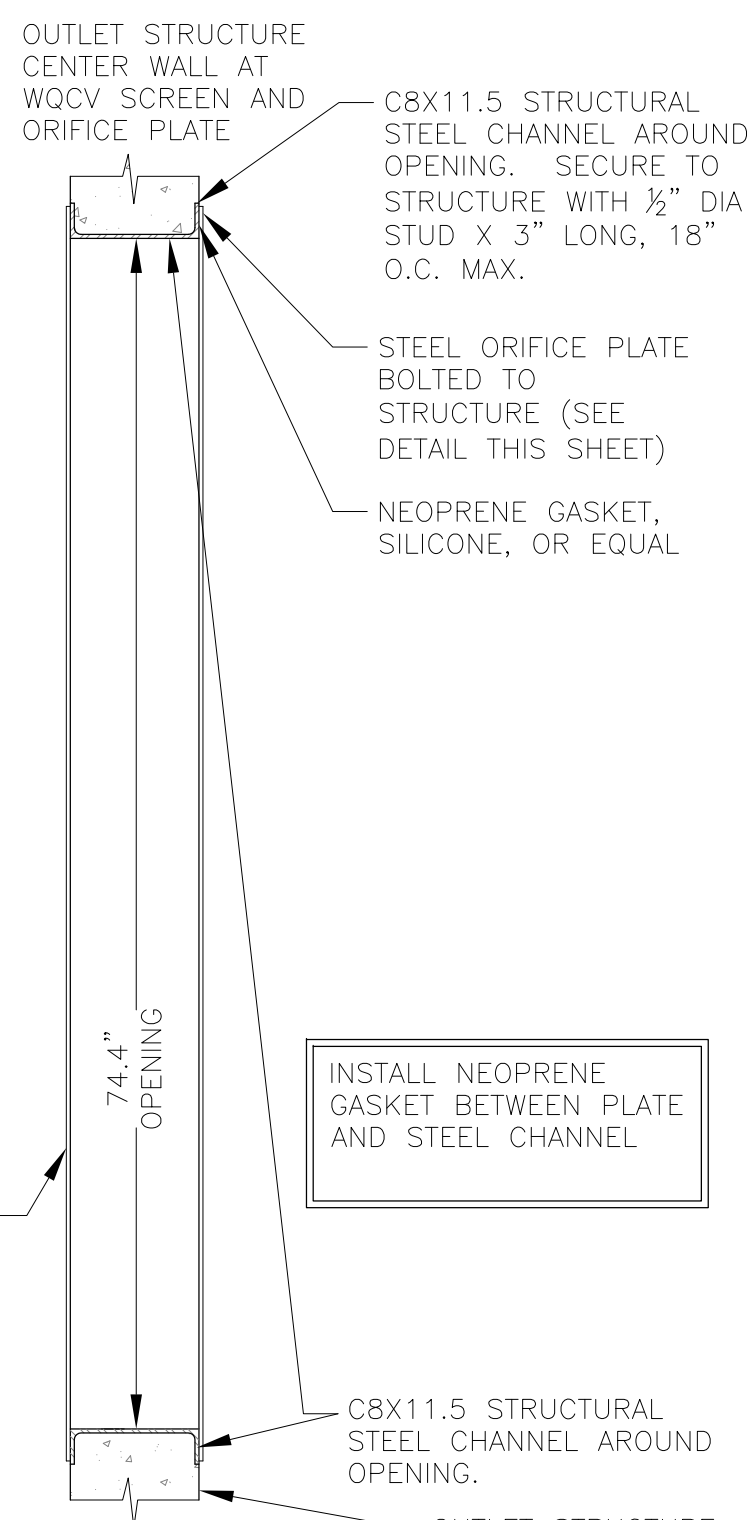
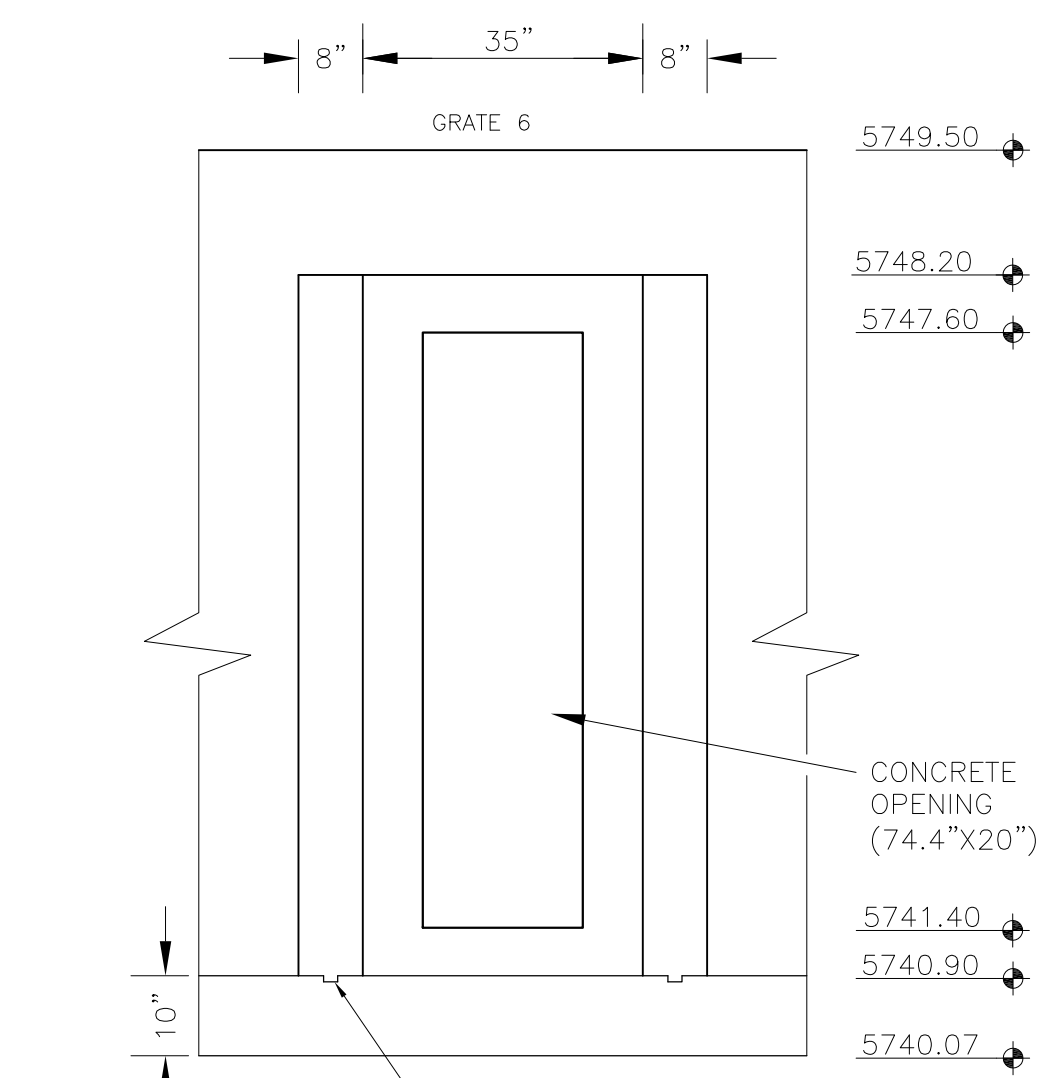
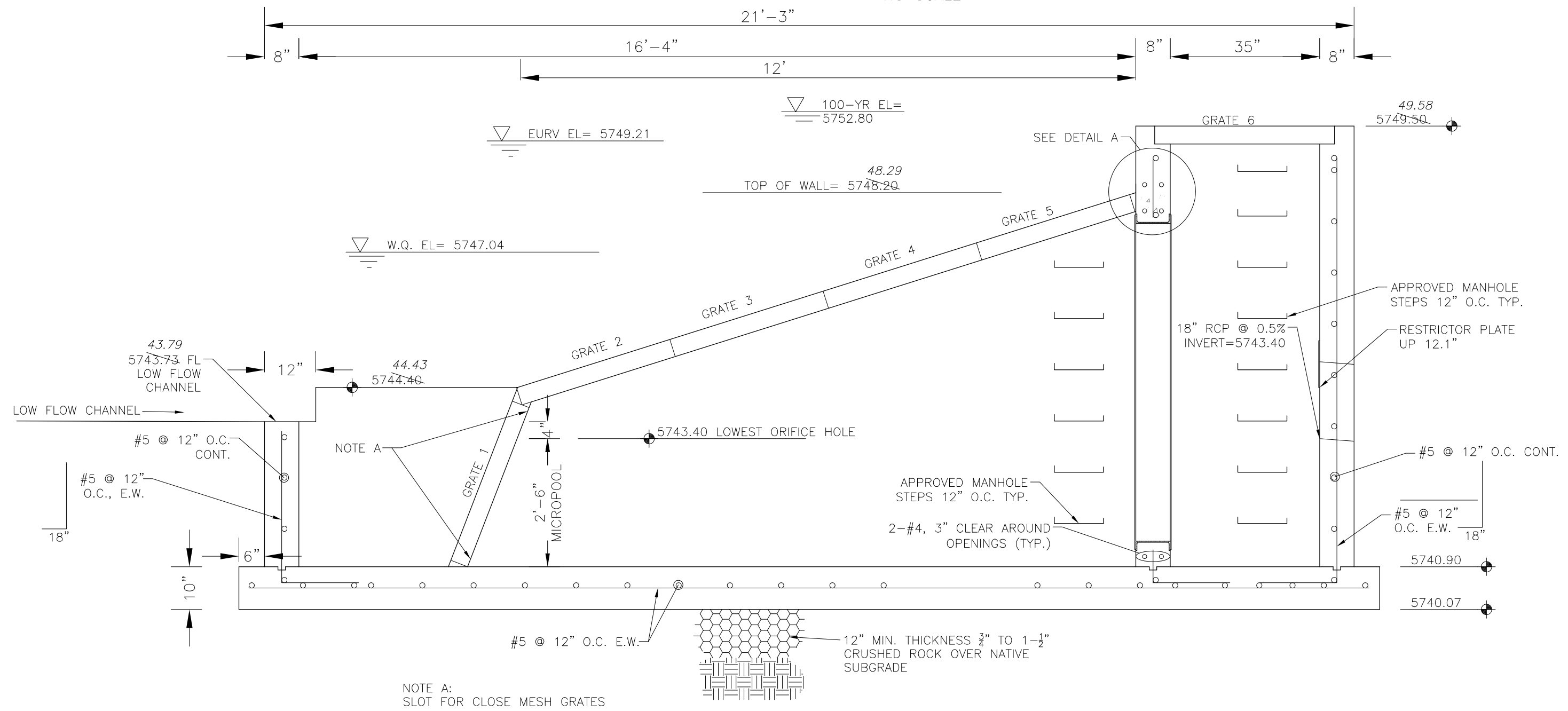
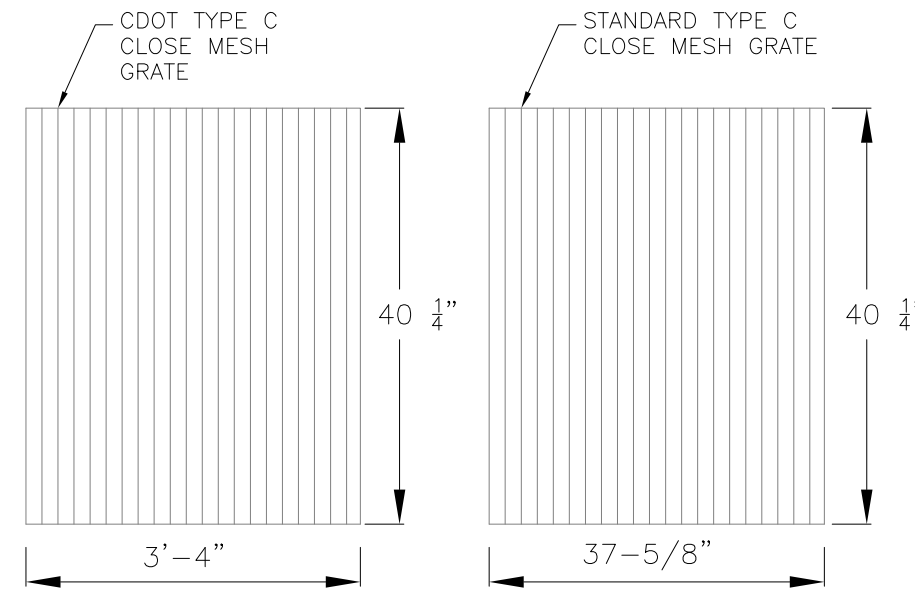


DATE: NOV 12, 2020  
PROJECT NO. 100.061  
SHEET NUMBER C9.11  
TOTAL SHEETS: 58

**AS-BUILT**  
DATE: 09/30/2022



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

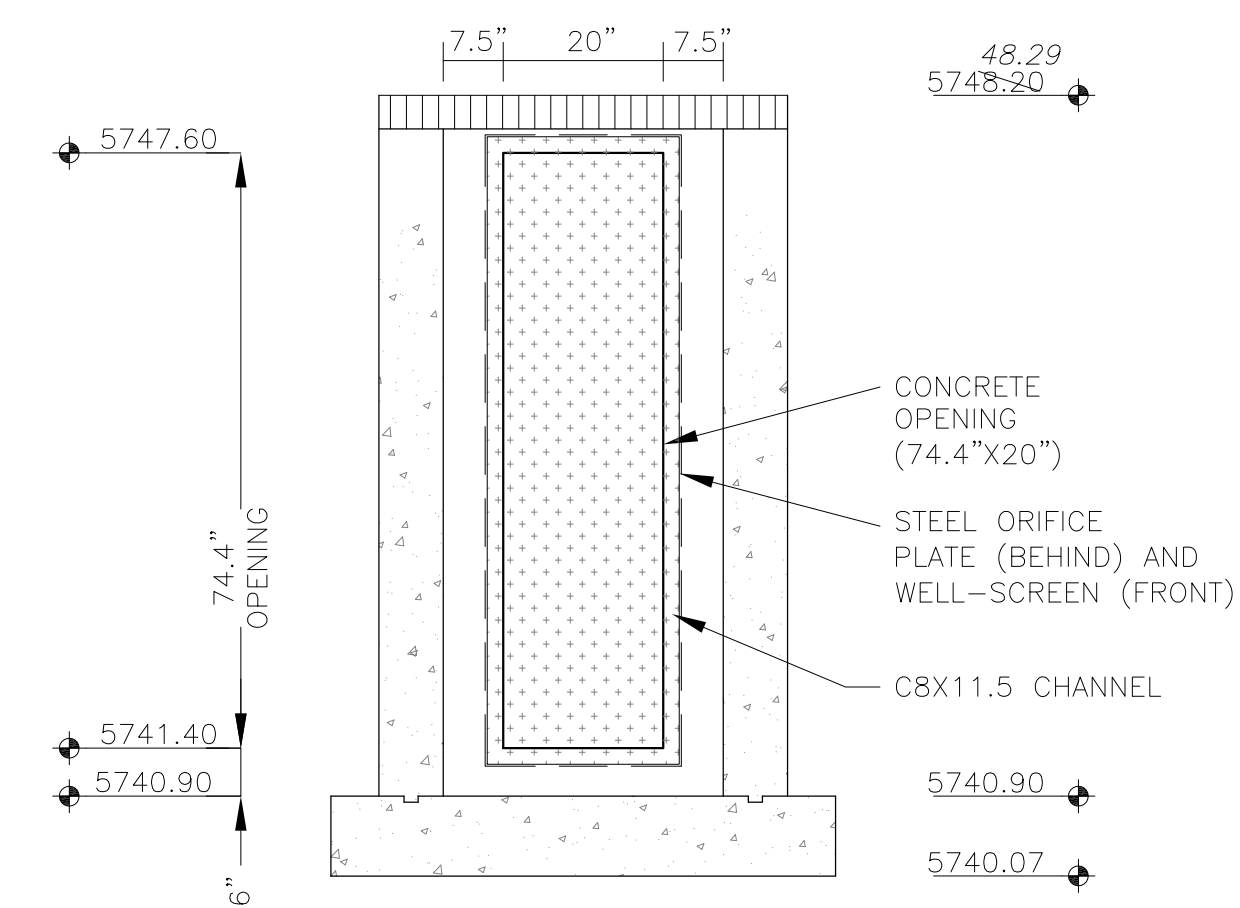


OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

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

- 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

**AS-BUILT**  
DATE: 09/30/2022



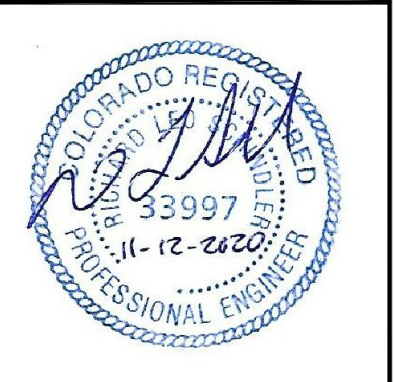
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
PH: 719.570.5506  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cog1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
PREPARED FOR: **LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

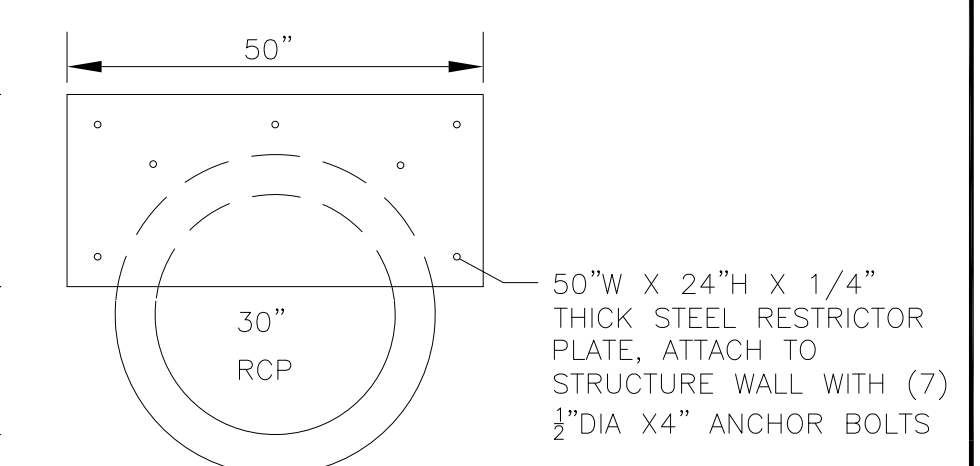
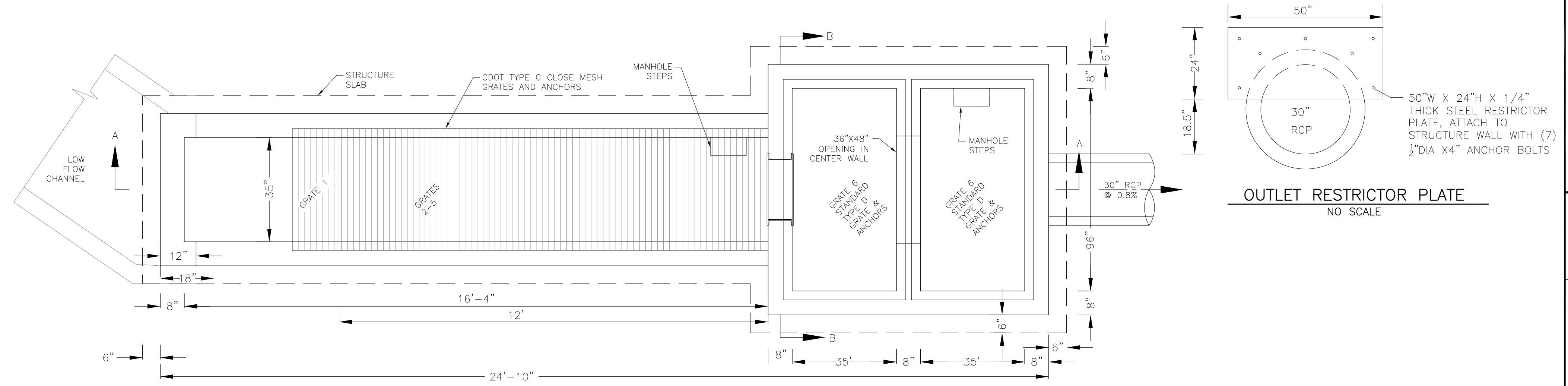
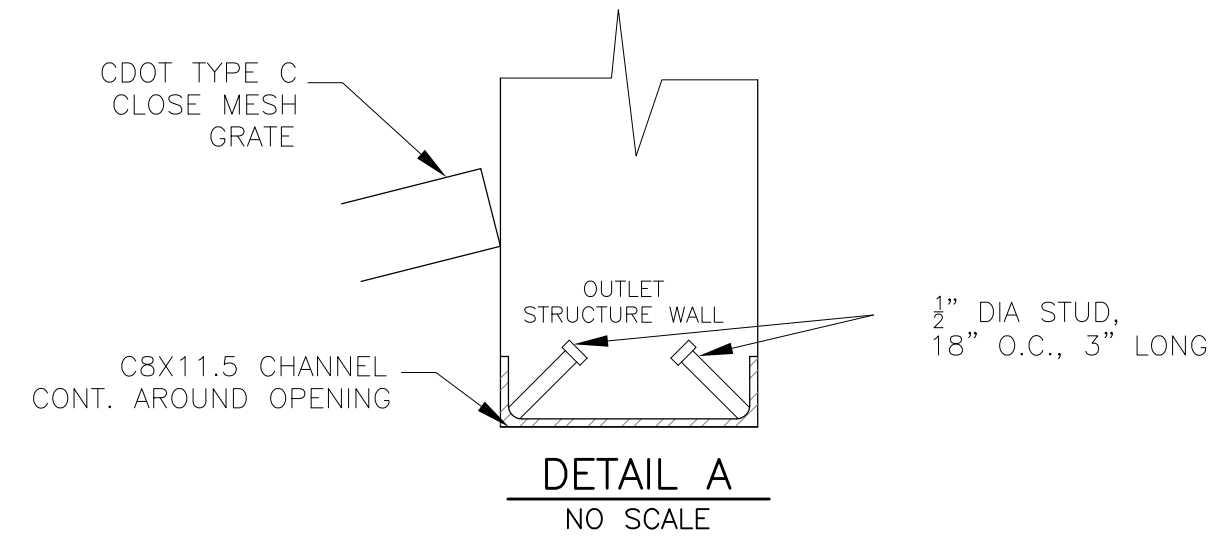
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
FONTAINE BLVD. - GRAYLING DR  
LORSON BLVD - WALLEYE DR - LAMPREY DR  
COLORADO SPRINGS, COLORADO

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

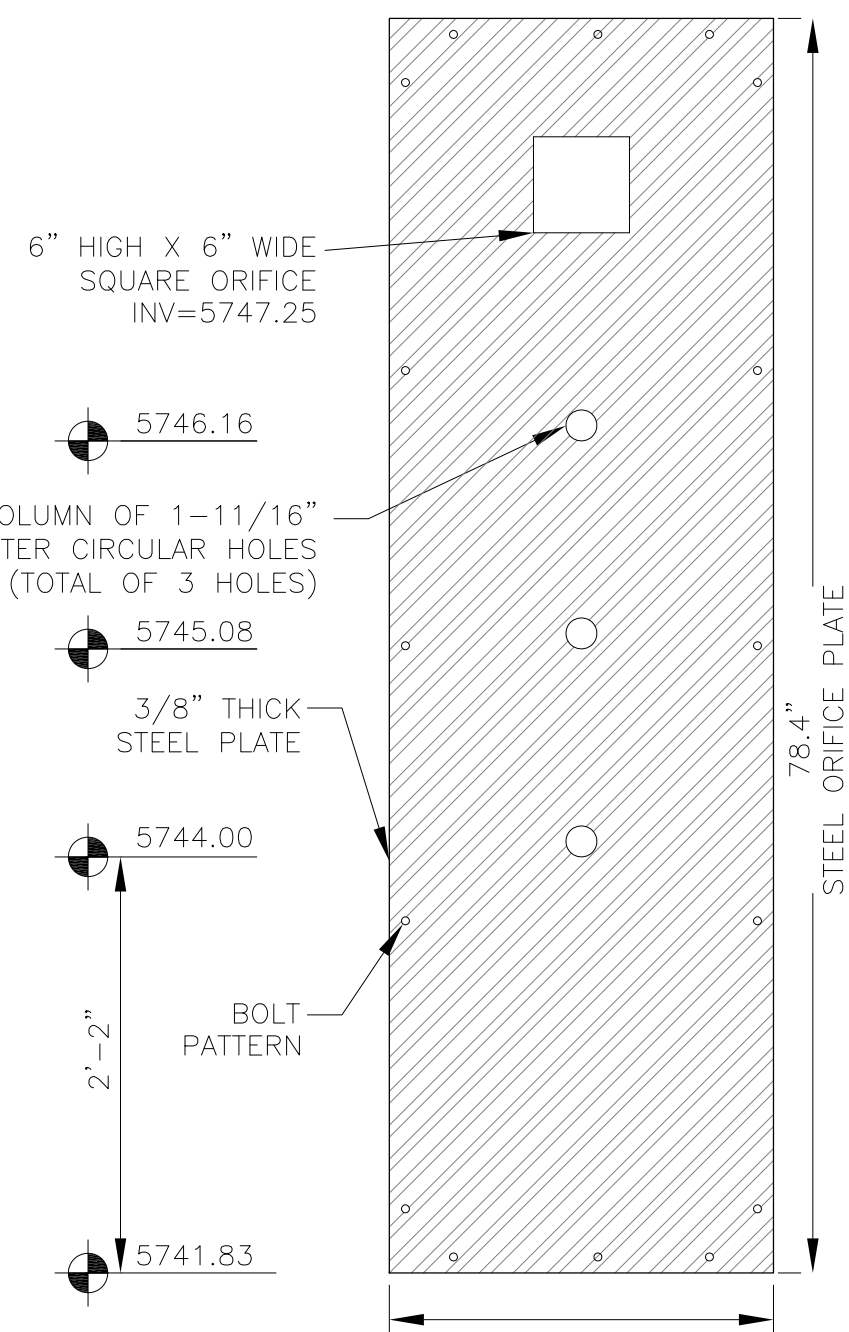
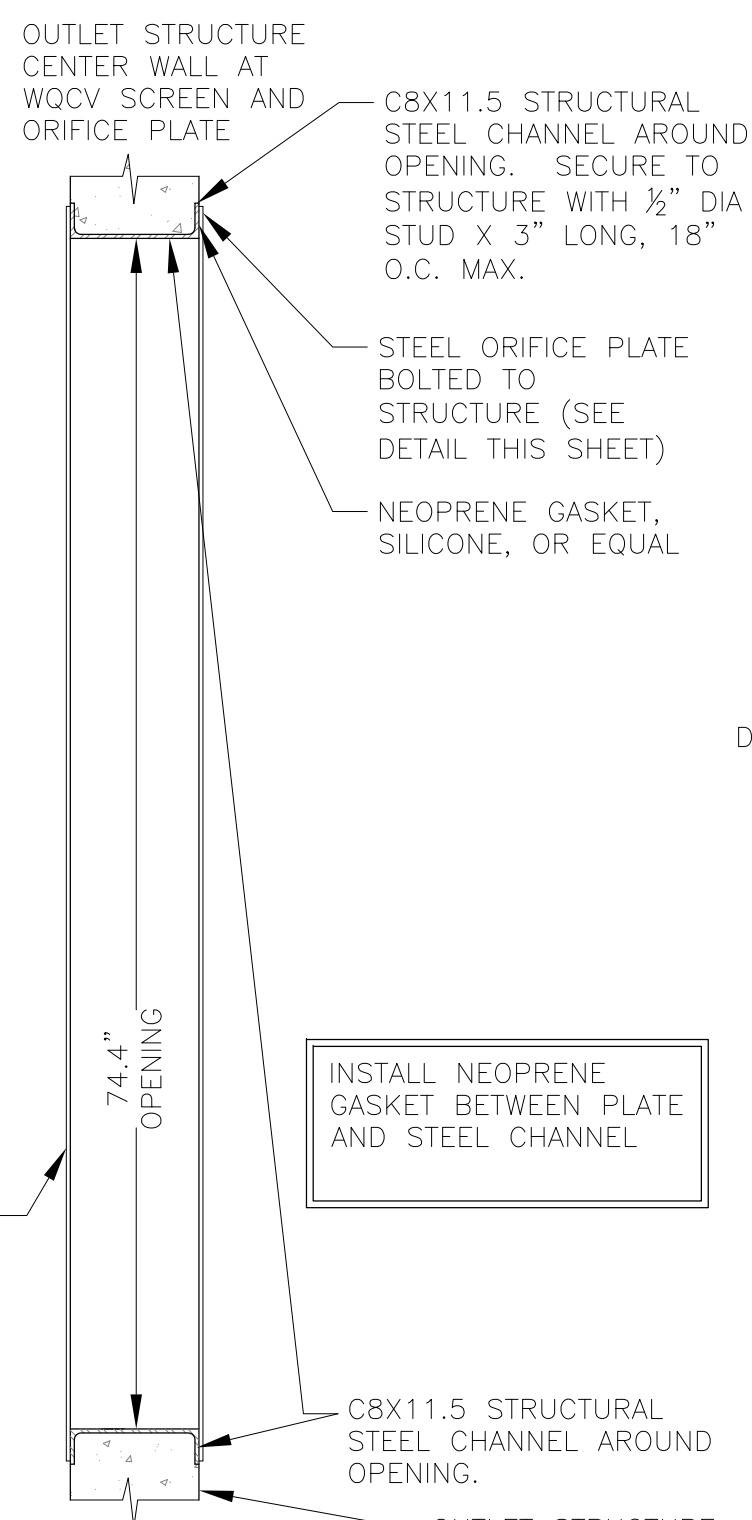
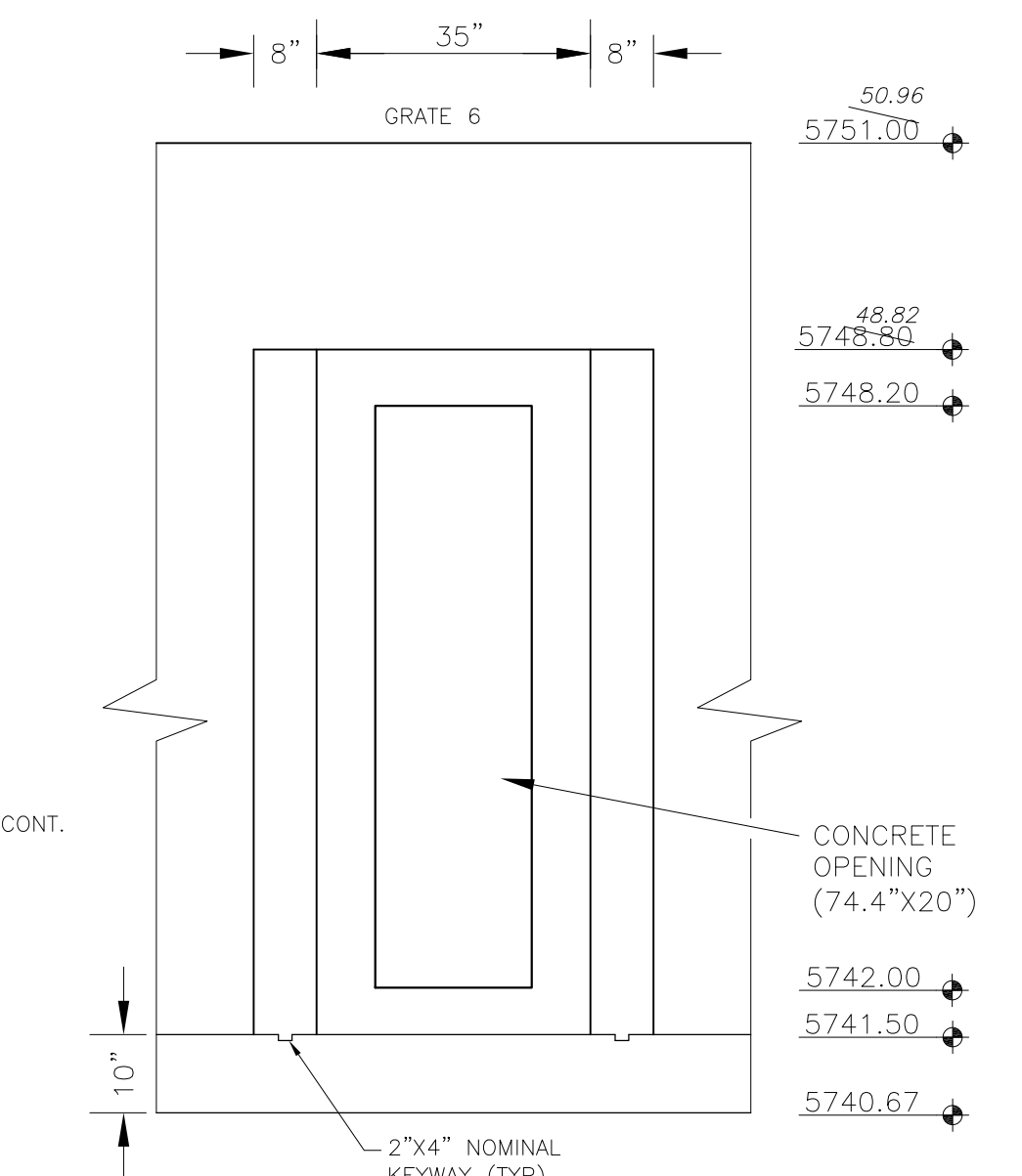
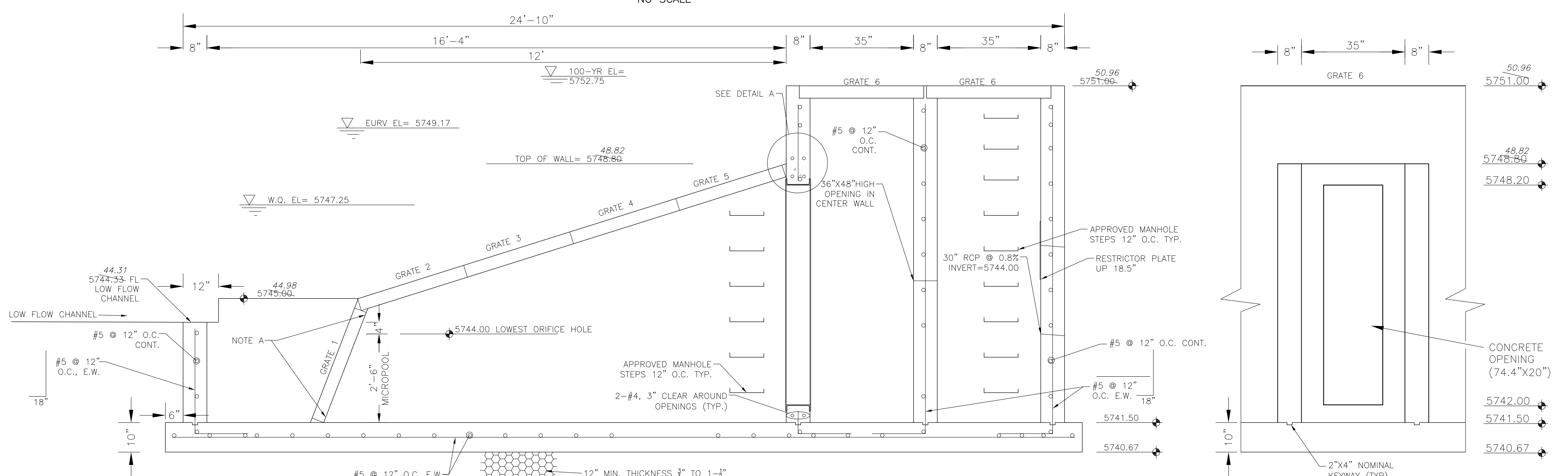
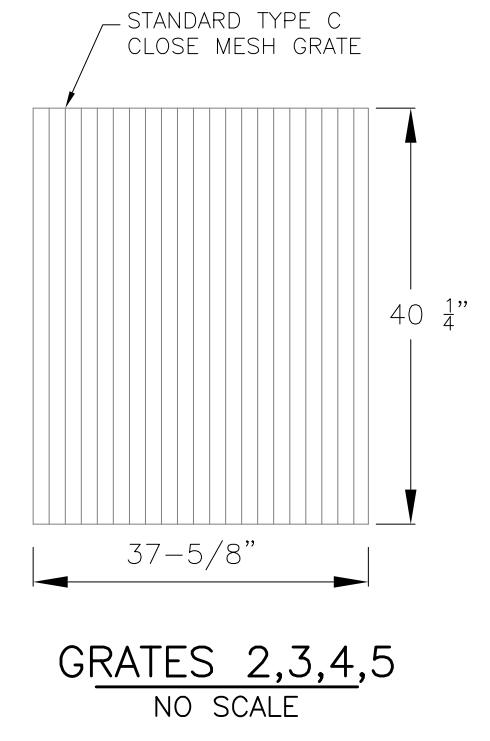
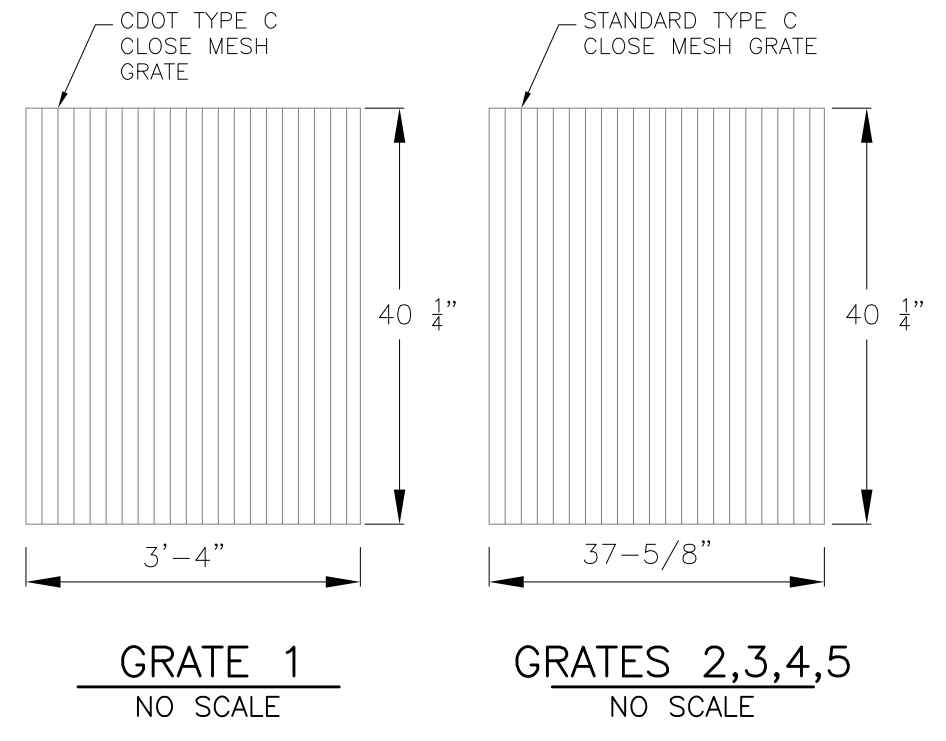
**POND C1**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**



DATE: NOV 12, 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

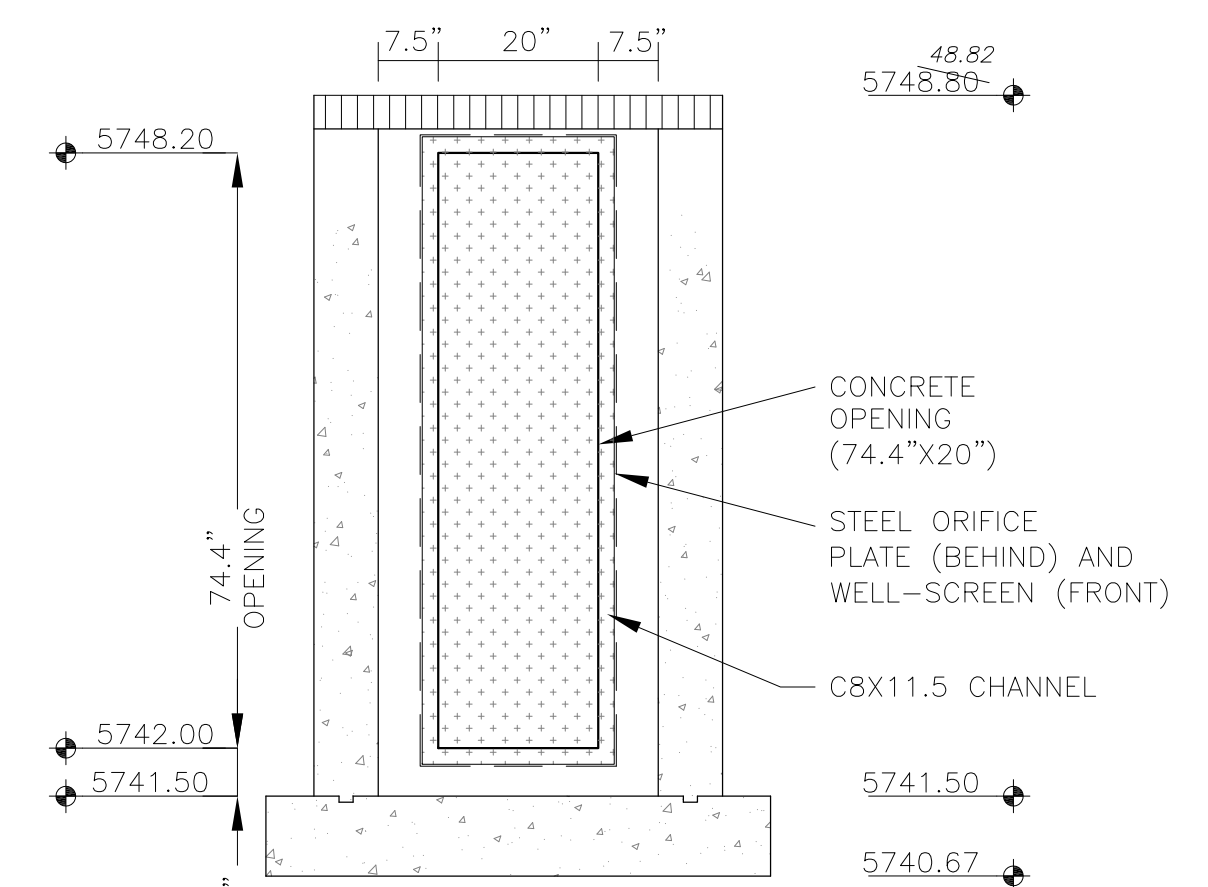


**OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:**

- 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.
- 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



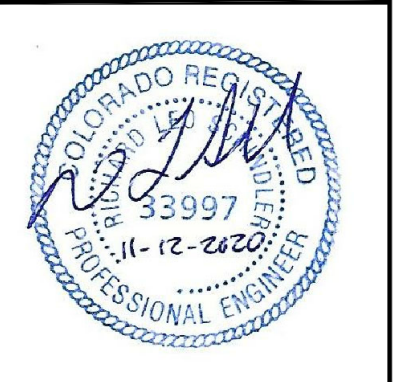
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
PH: 719.570.5506  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cge1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_  
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**



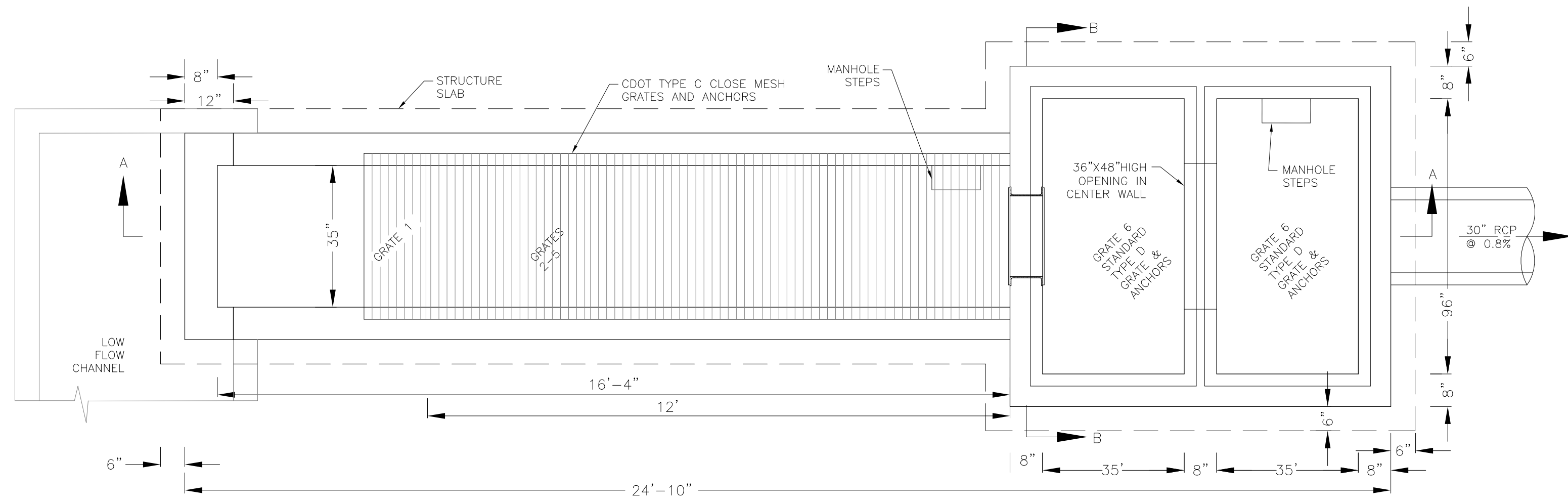
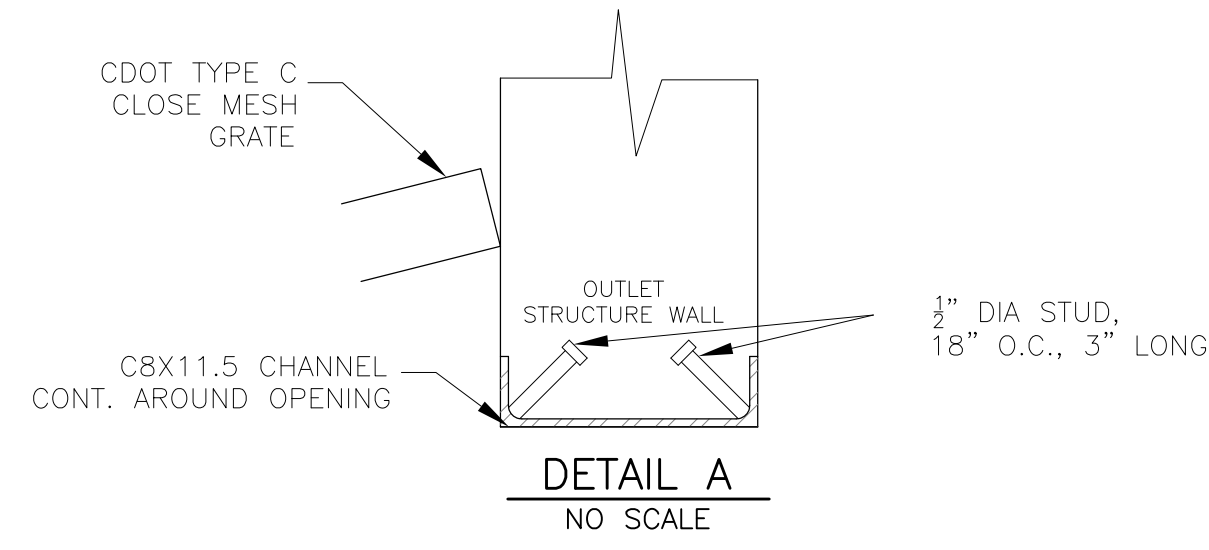
DATE: NOV 12, 2020

PROJECT NO. 100.061

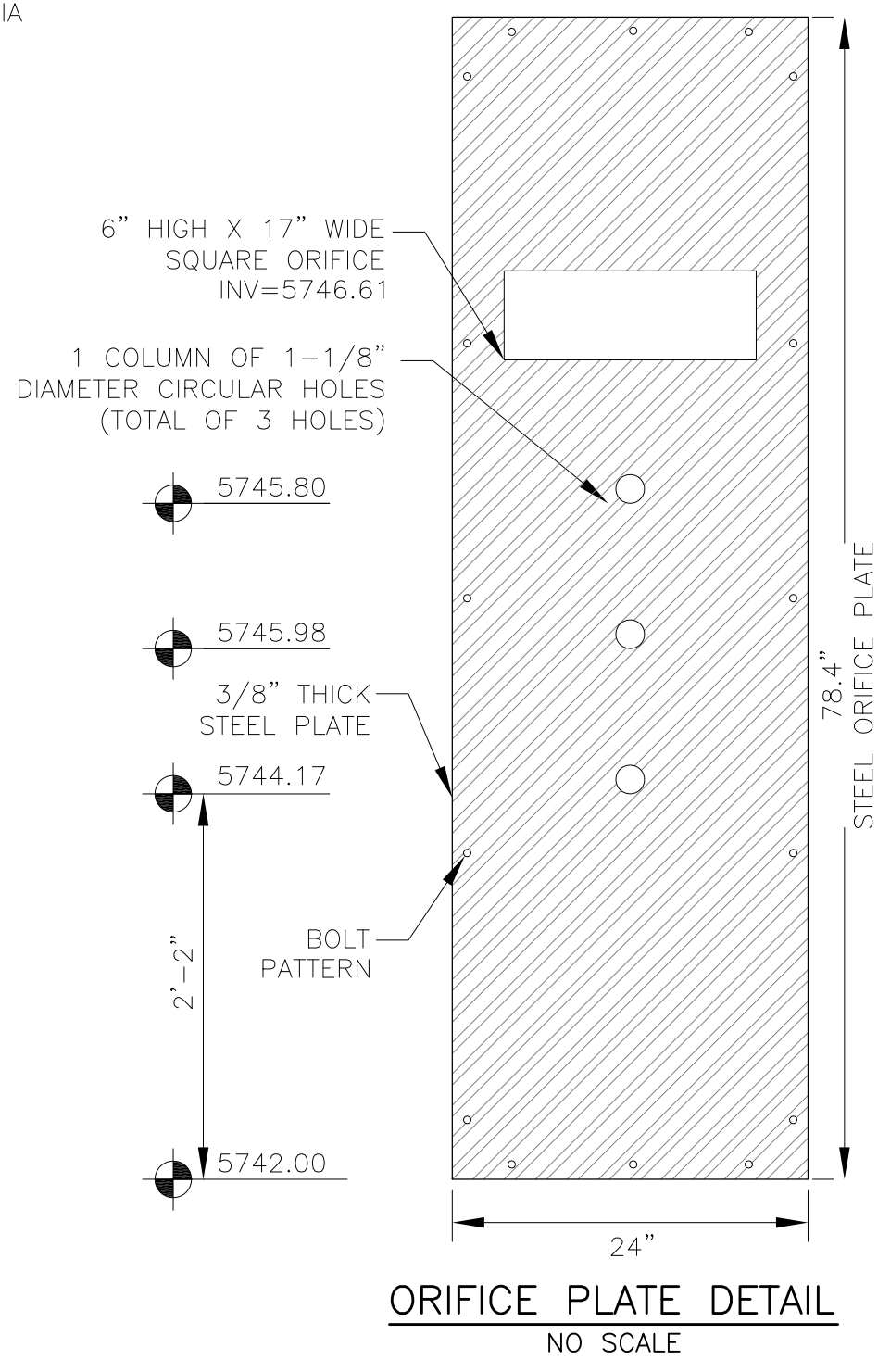
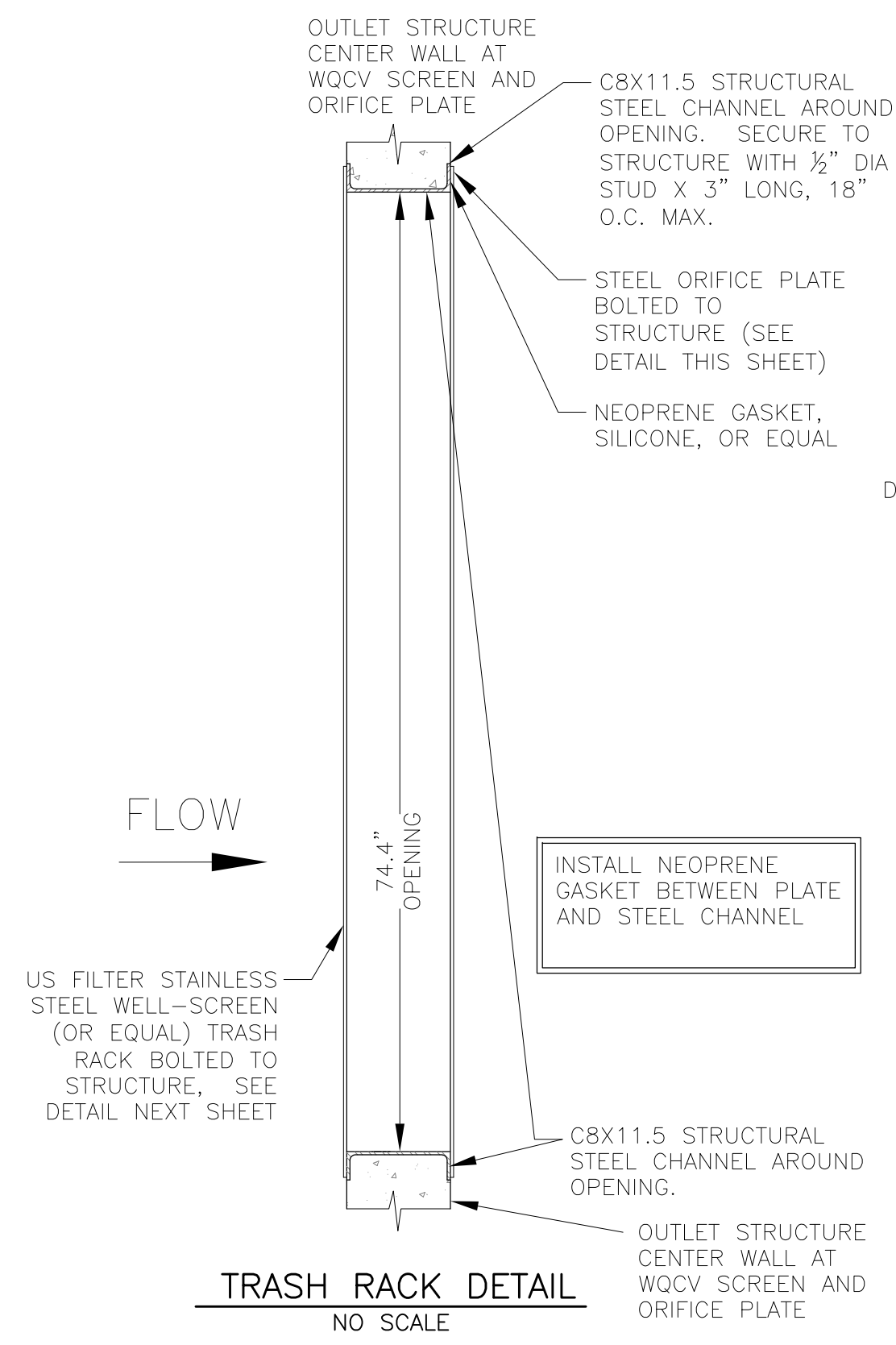
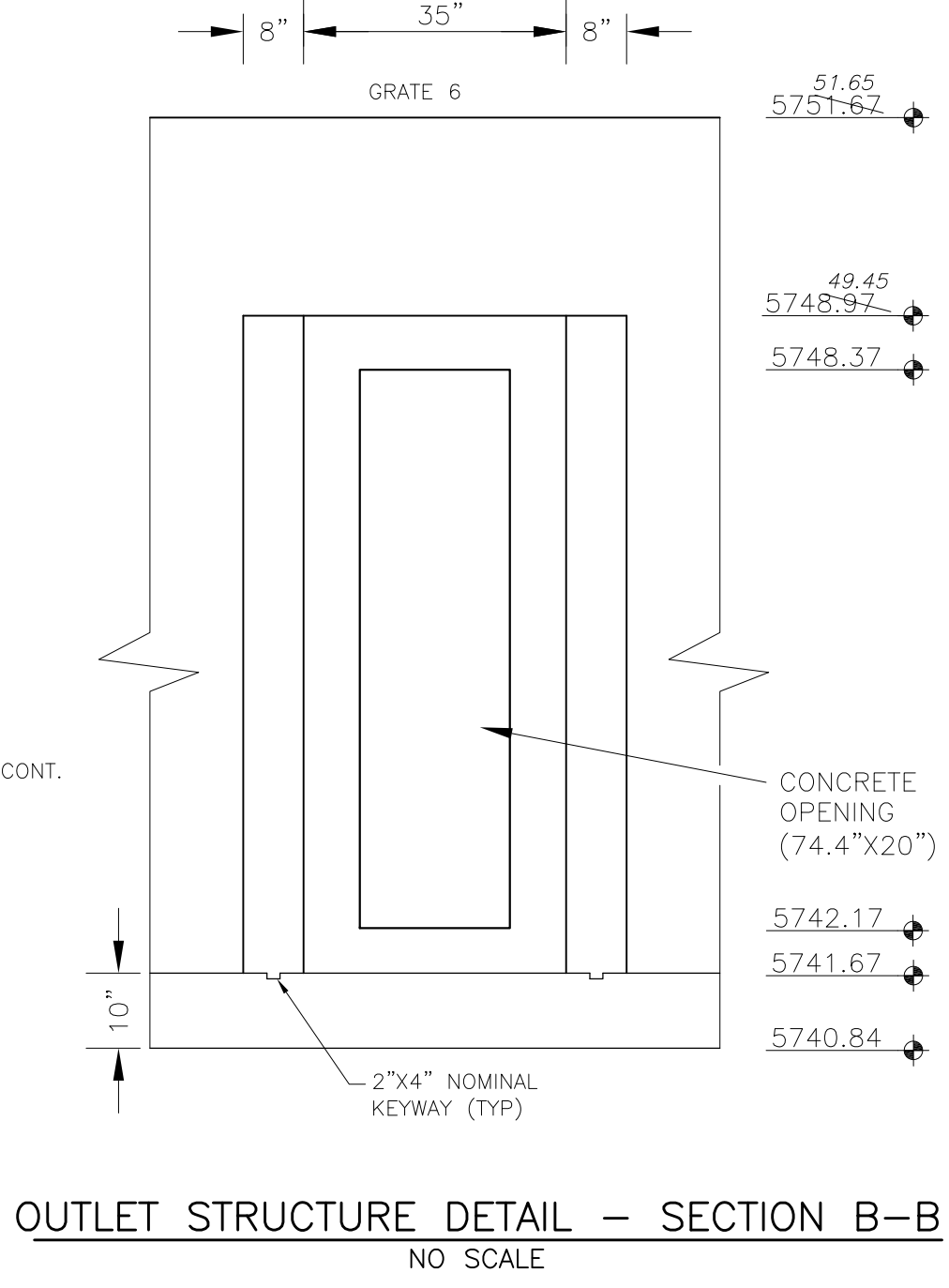
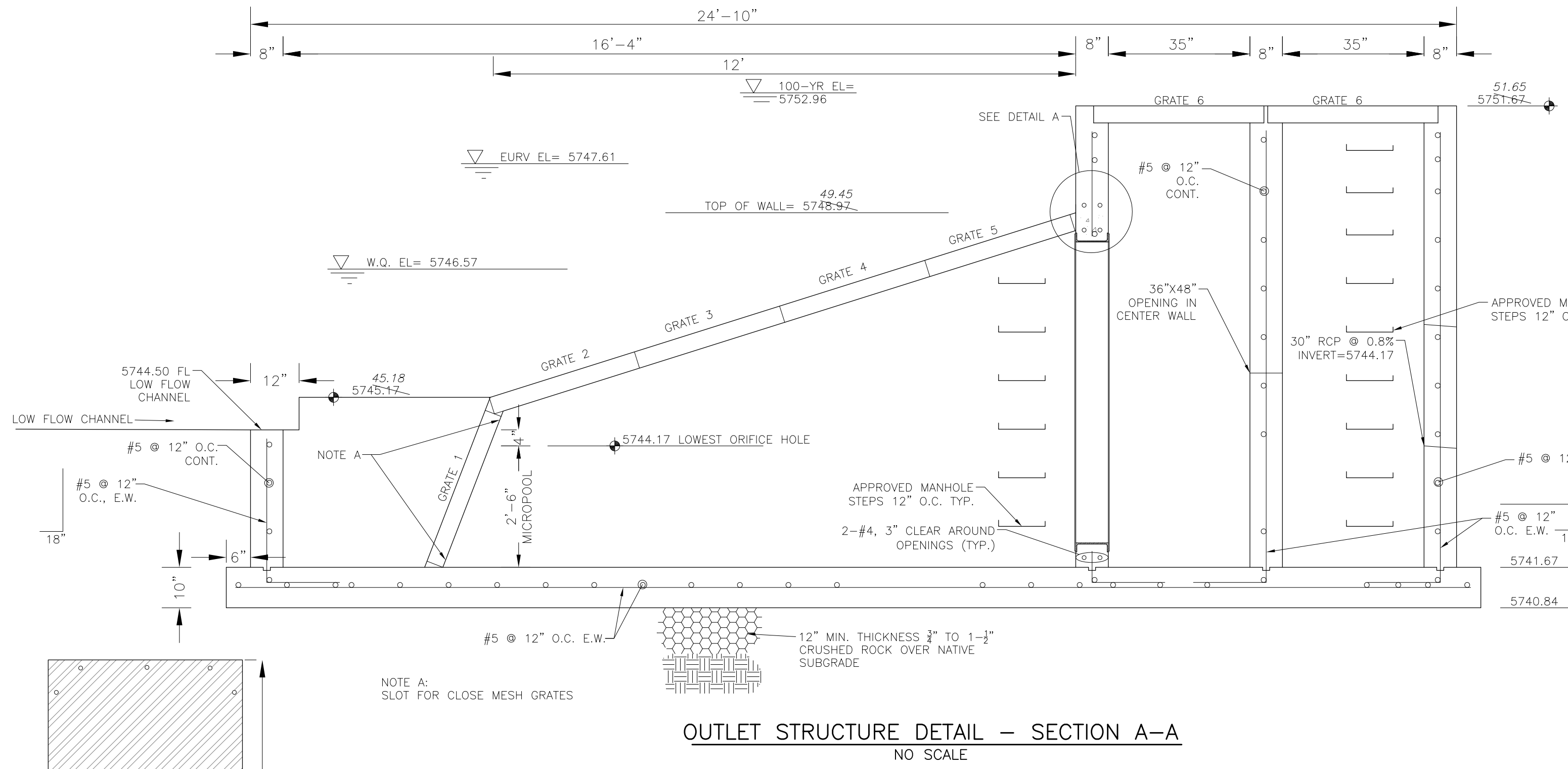
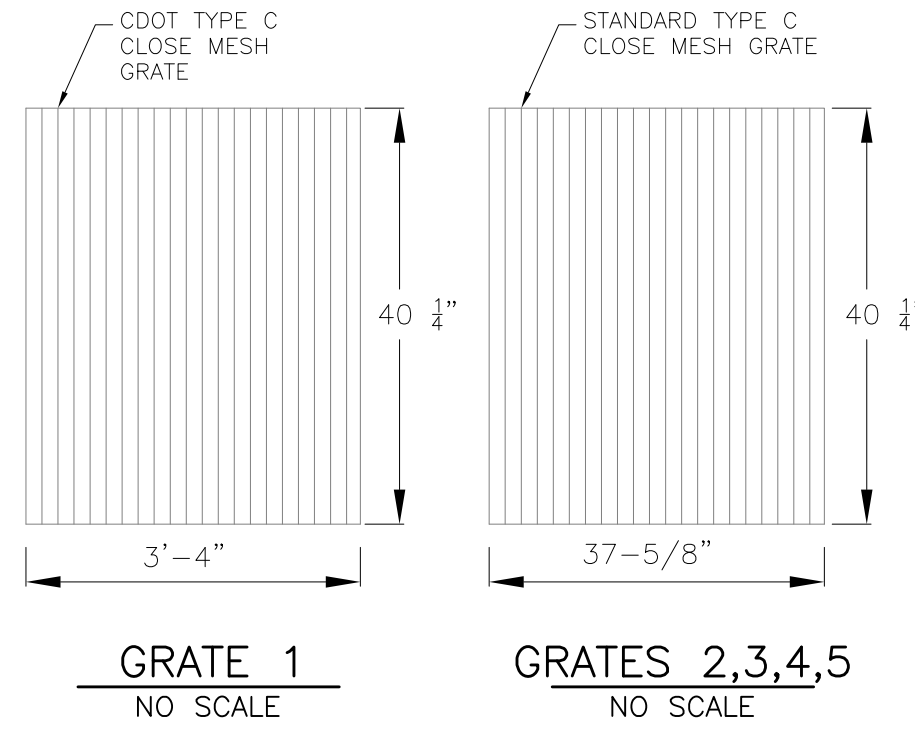
SHEET NUMBER C9.13

TOTAL SHEETS: 58

**AS-BUILT**  
DATE: 09/30/2022



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



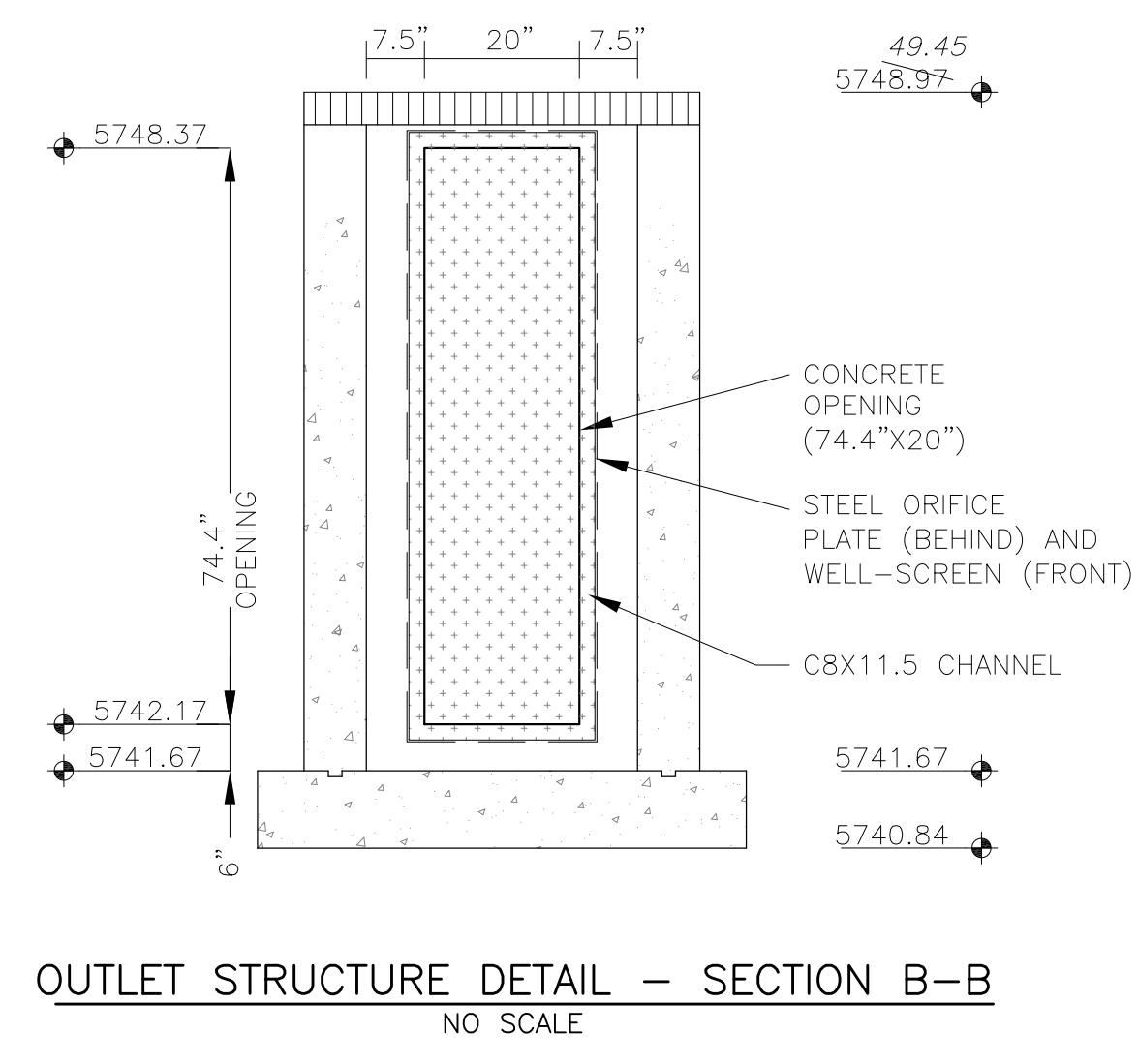
**OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:**

- 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\"/>

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

**AS-BUILT**  
DATE: 09/30/2022



**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
DENVER, CO 80206  
PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: Rich@cog1.com

DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
NO: \_\_\_\_\_

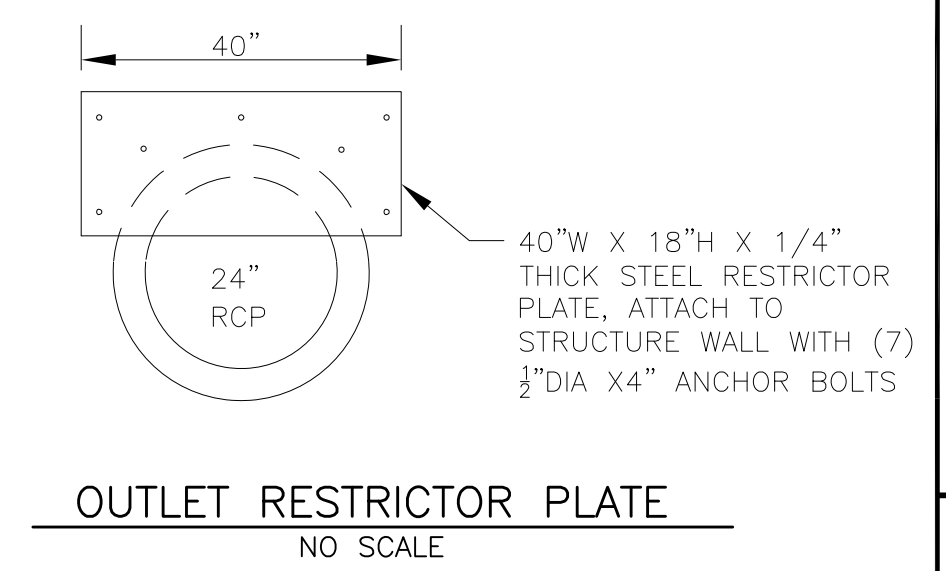
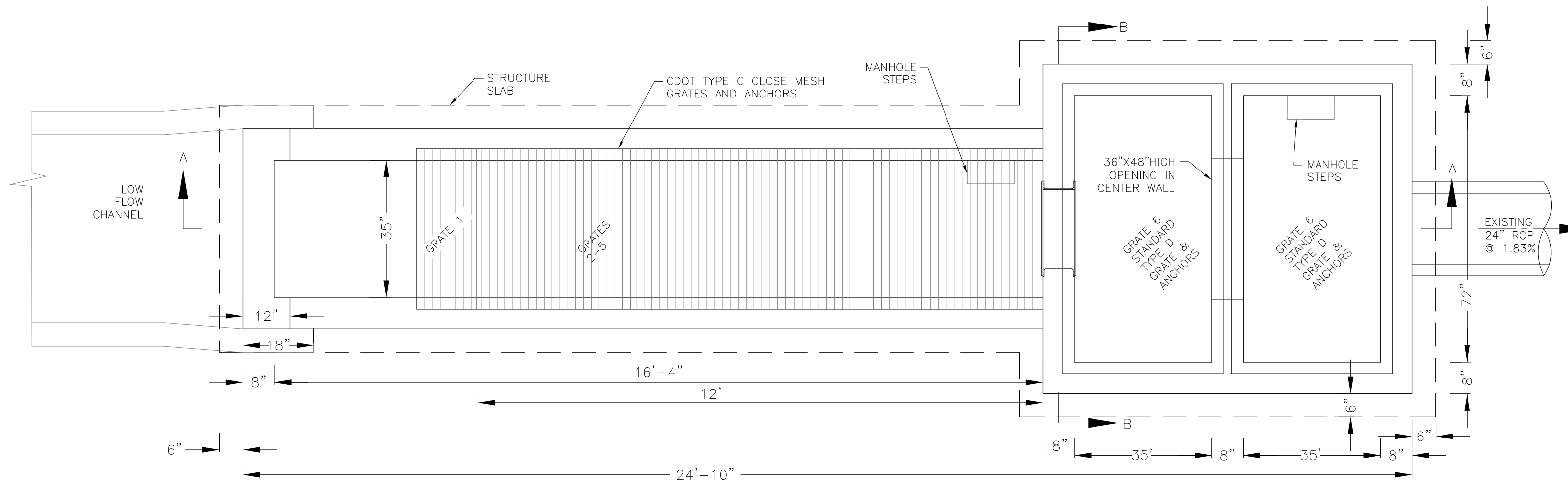
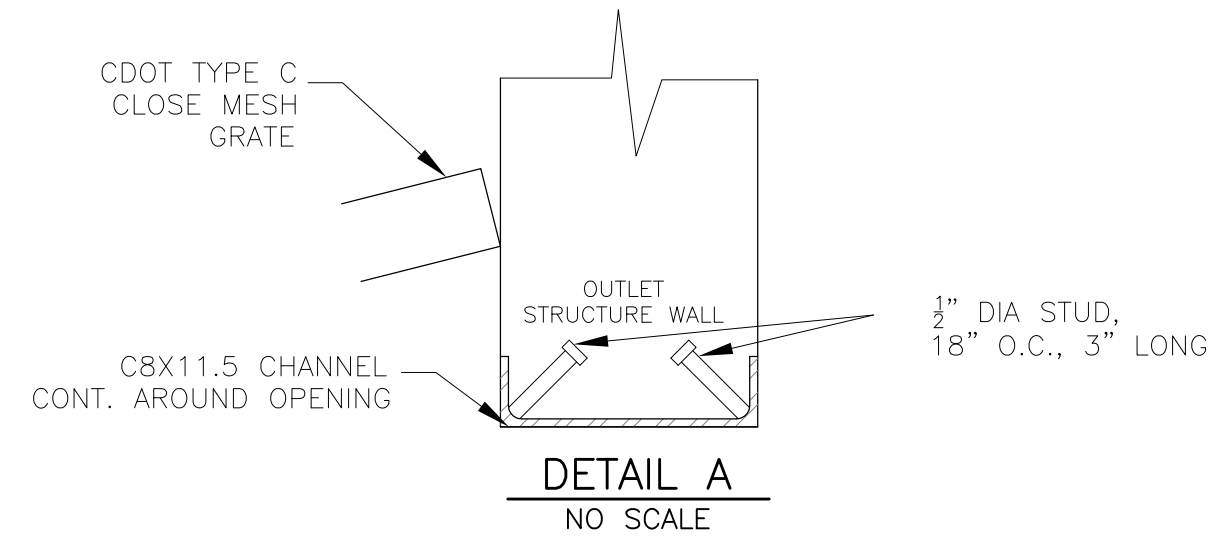
PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
(719) 635-3200  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

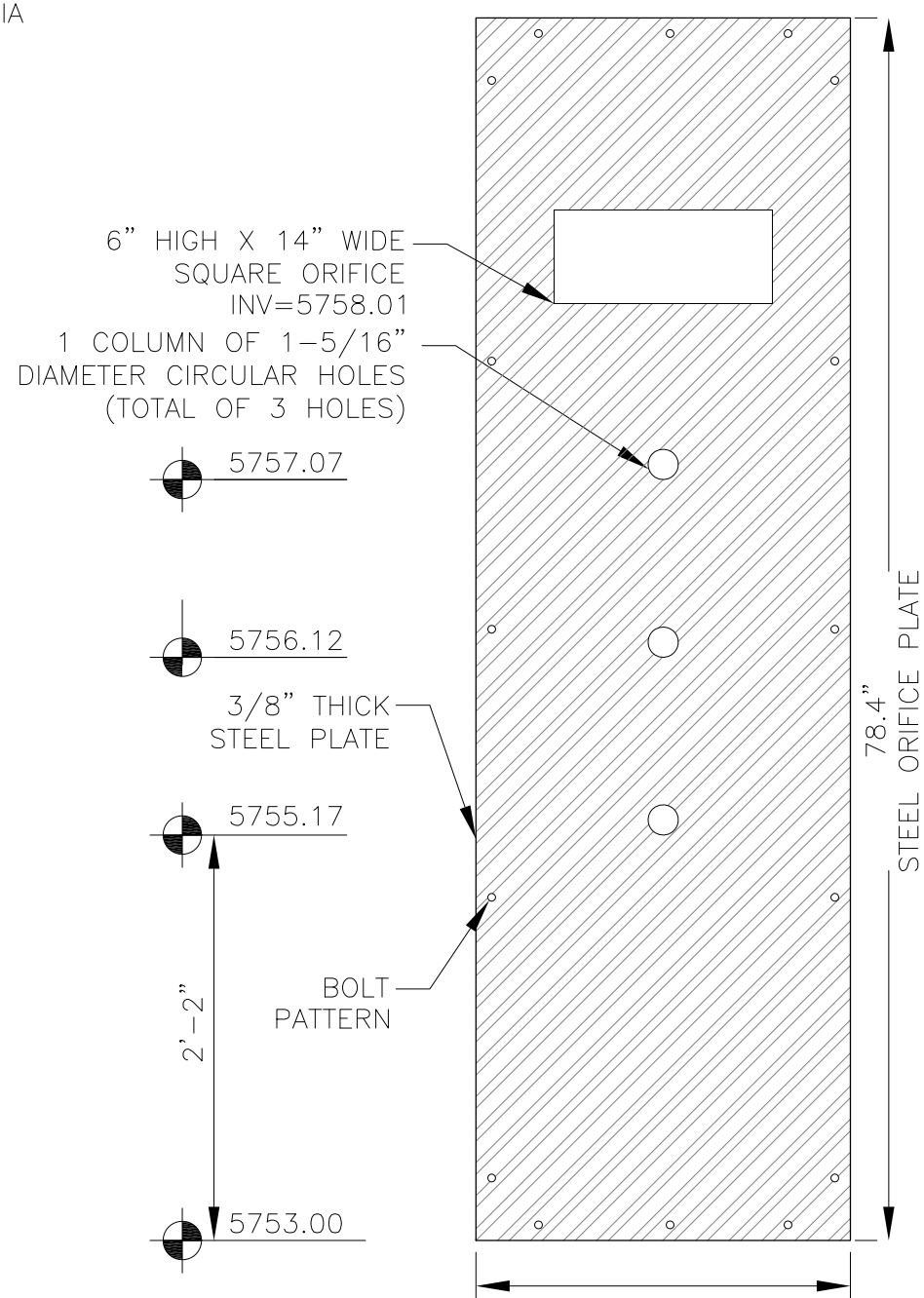
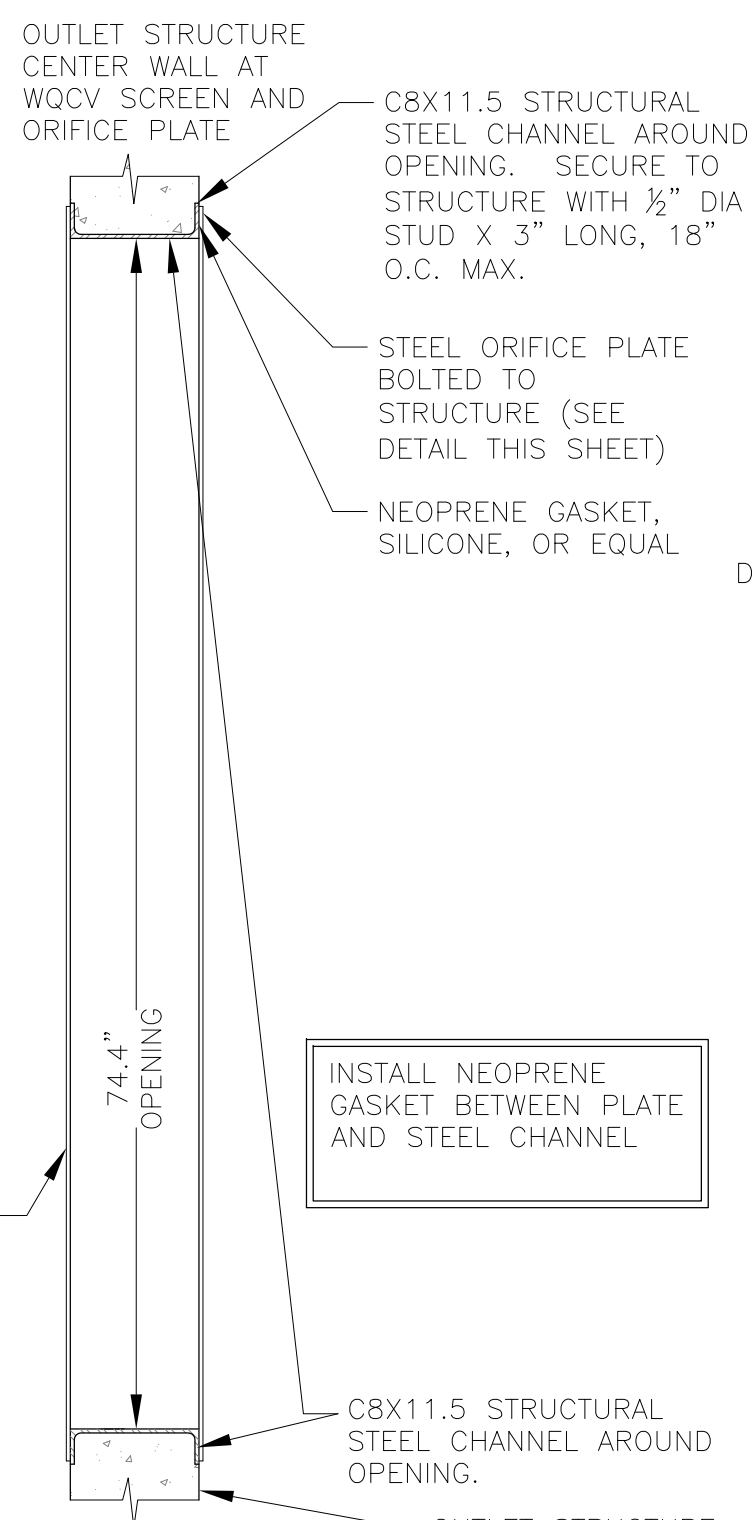
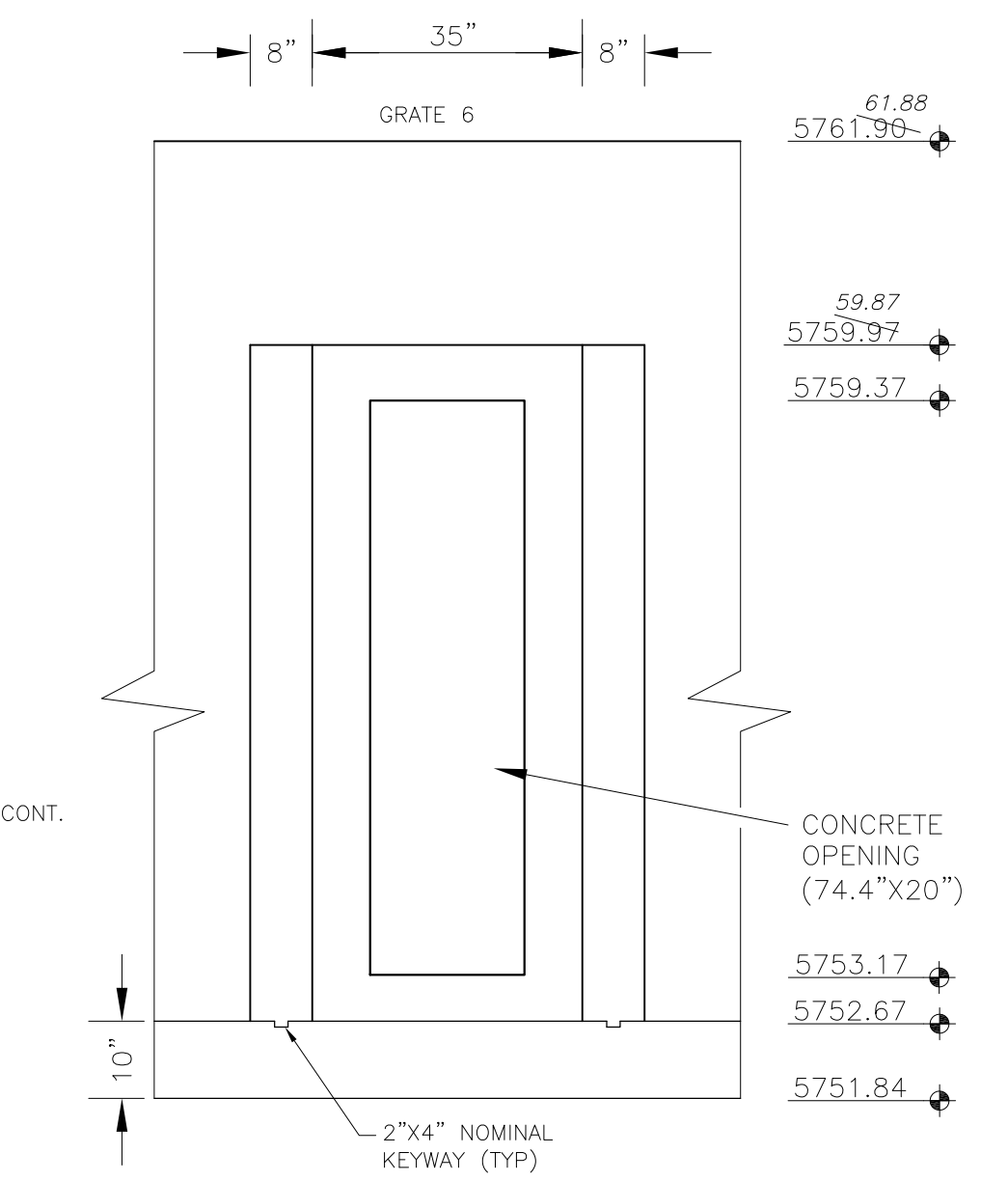
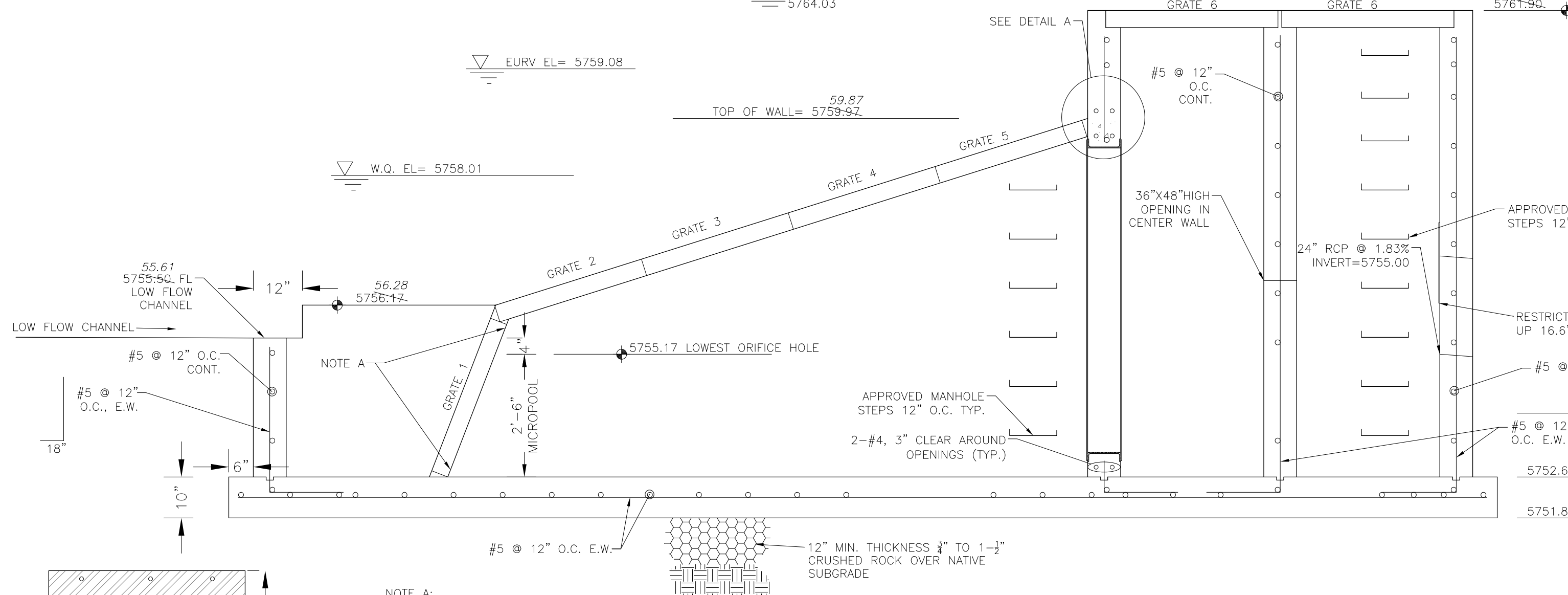
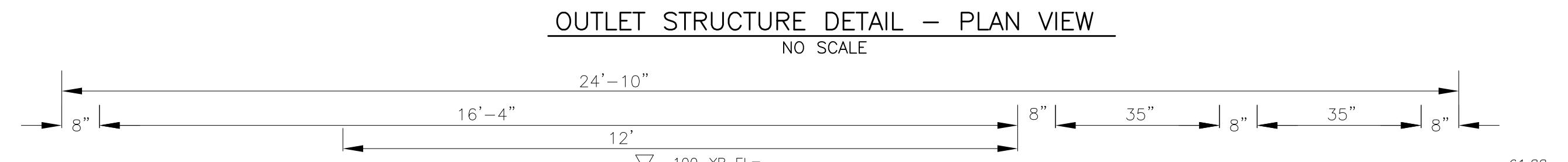
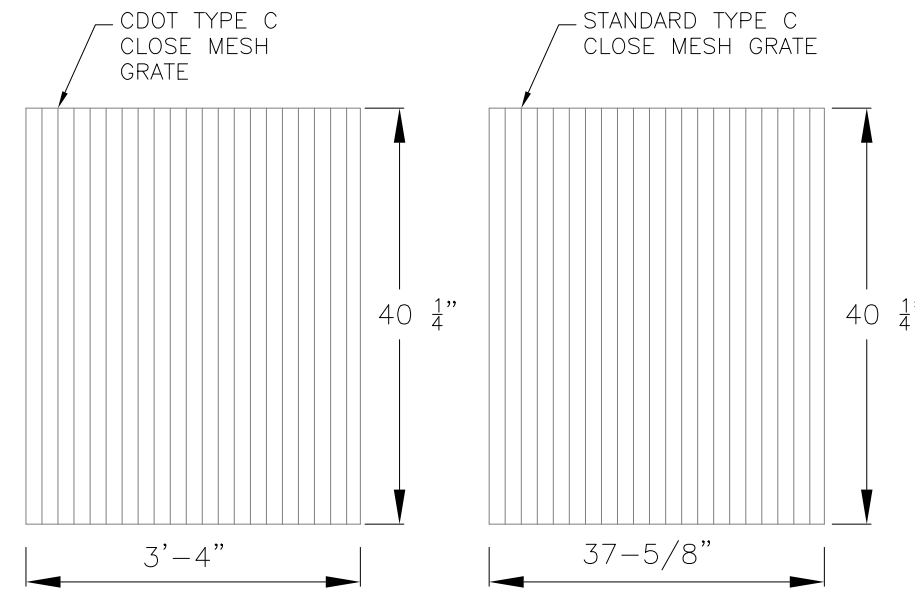
**POND C2.3**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**



DATE:  
NOV 12, 2020  
PROJECT NO.  
100.061  
SHEET NUMBER  
**C9.14**  
TOTAL SHEETS: 58



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



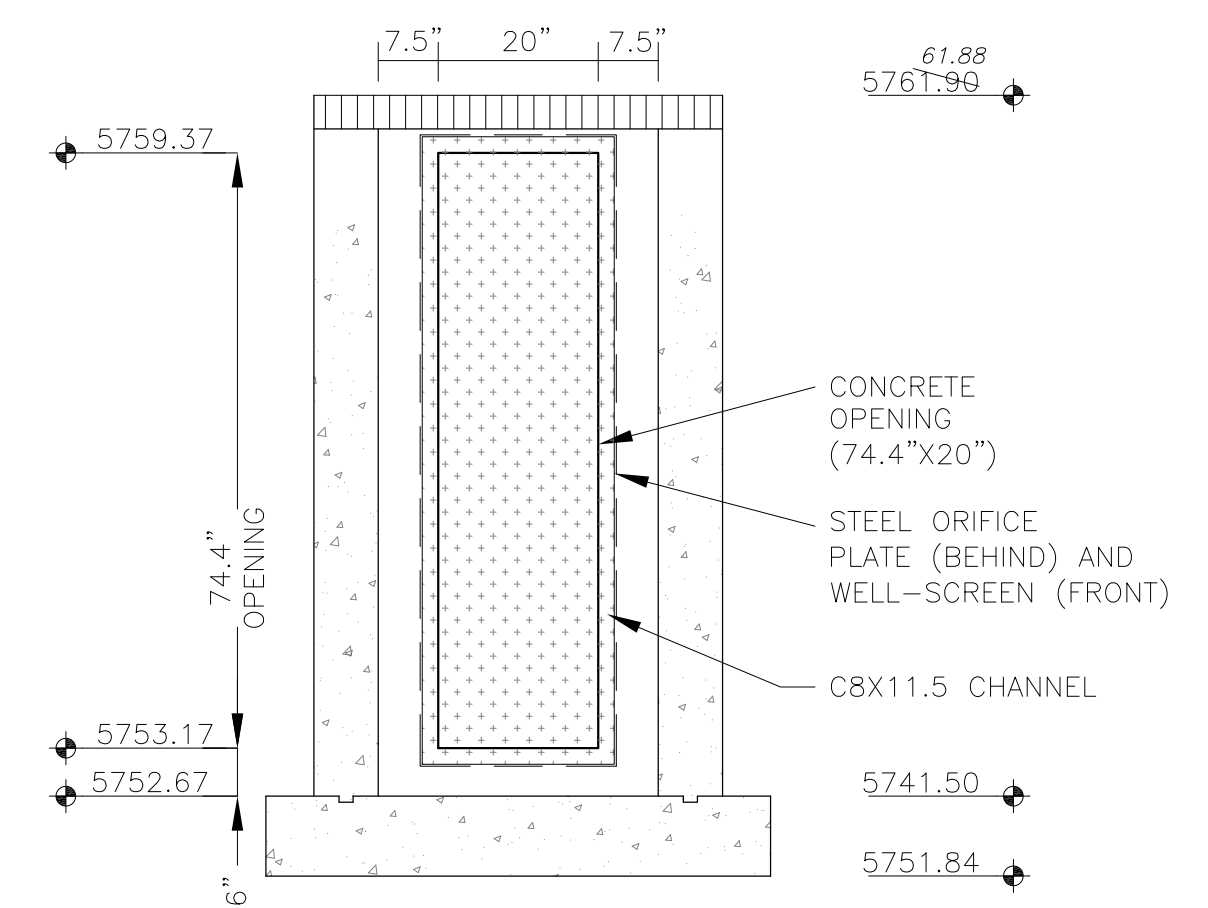
OUTLET STRUCTURE, FOREBAY, AND DRAIN CHANNEL NOTES:

- 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.
- 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



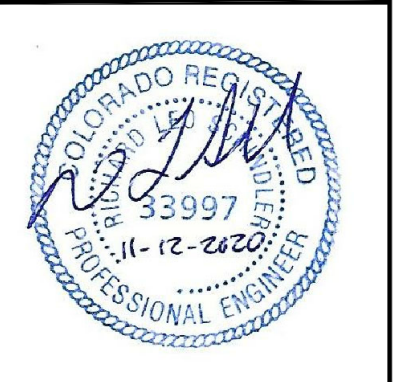
**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
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PH: 719.570.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
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PREPARED FOR:  
**LORSON, LLC**  
212 N. WAHSATCH AVE. SUITE 301  
COLORADO SPRINGS, COLORADO 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 C3**  
**FULL SPECTRUM**  
**OUTLET STRUCTURE DETAILS**



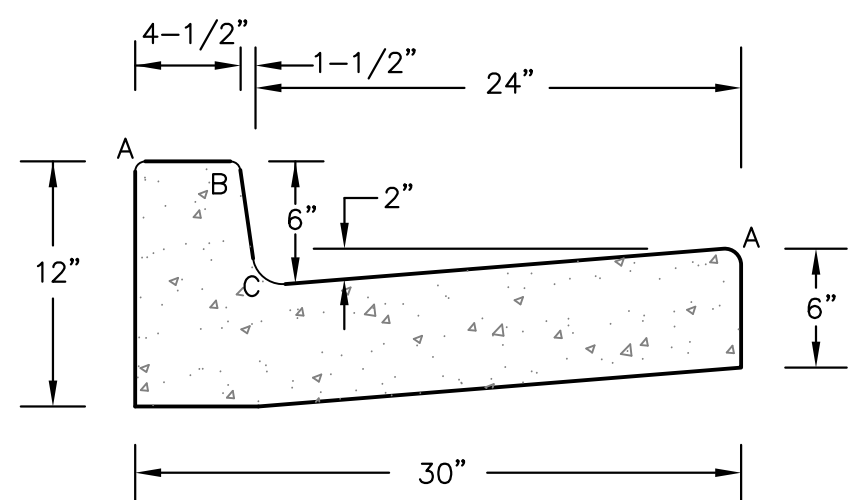
DATE:  
NOV 12, 2020

PROJECT NO.  
100.061

SHEET NUMBER  
**C9.15**

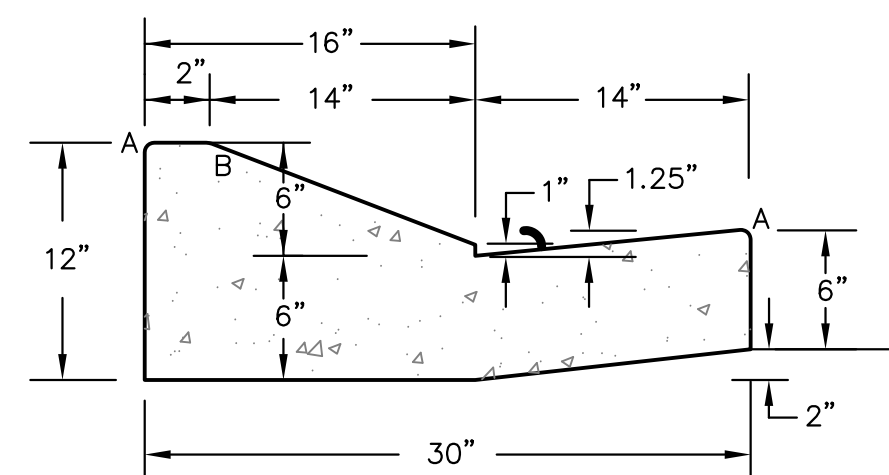
TOTAL SHEETS: 58

**AS-BUILT**  
DATE: 09/30/2022



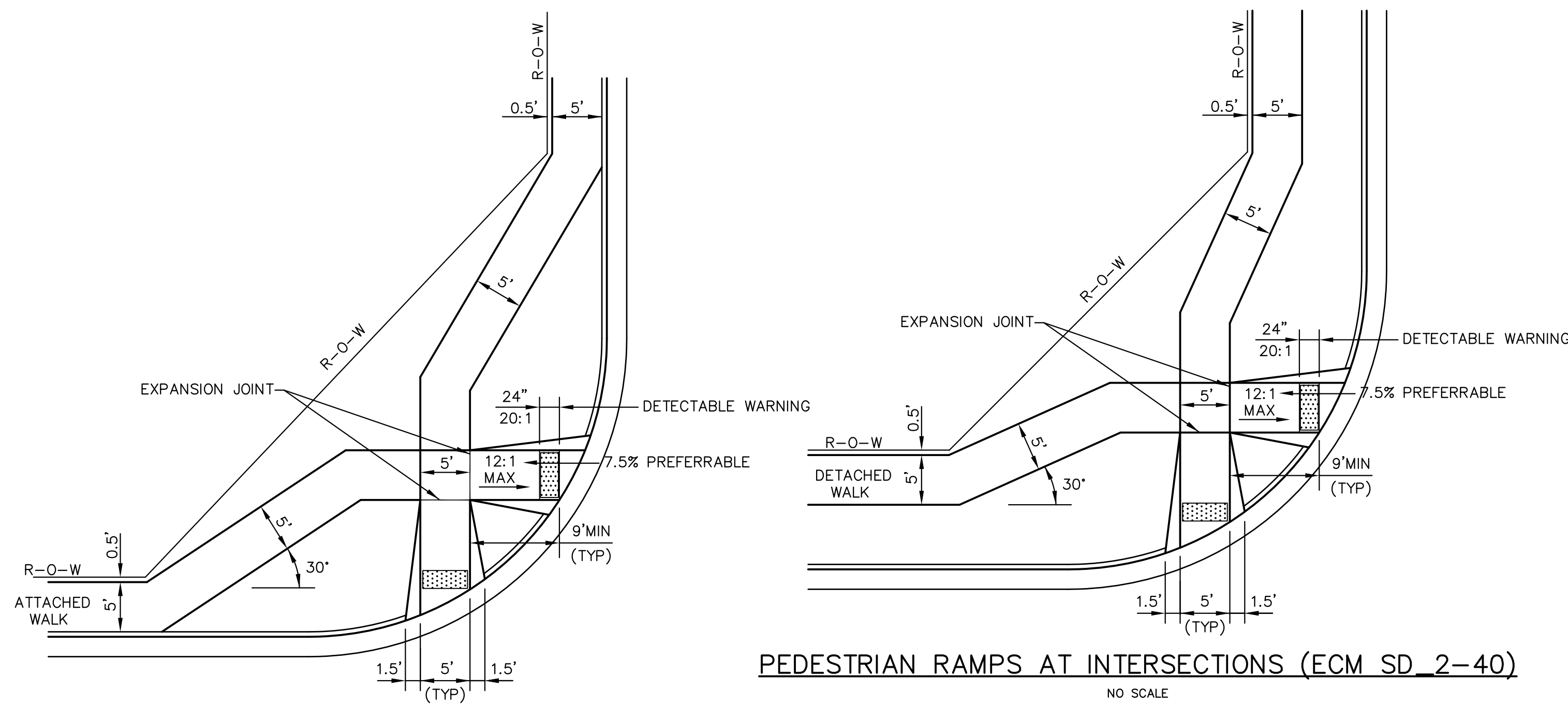
LENGTH FOR RADII  
 A = 1/8" TO 1/4"  
 B = 1-1/2"  
 C = 1-1/2" TO 2"

TYPE 'A'  
 VERTICAL CURB AND GUTTER  
 SCALE 1" = 1'-0"

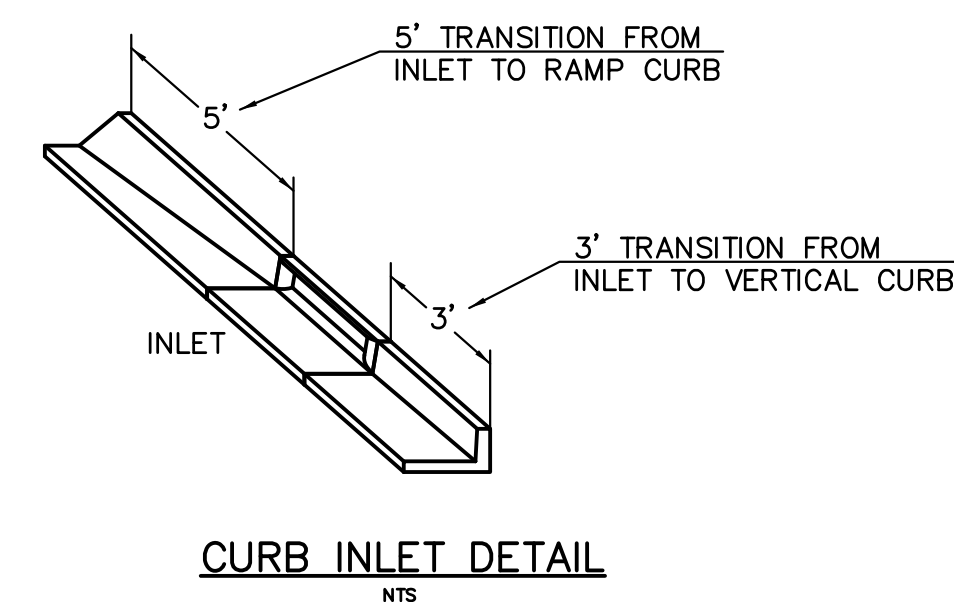


TYPE 'C'  
 OPTIONAL TYPE C RAMP CURB AND GUTTER  
 SCALE 1" = 1'

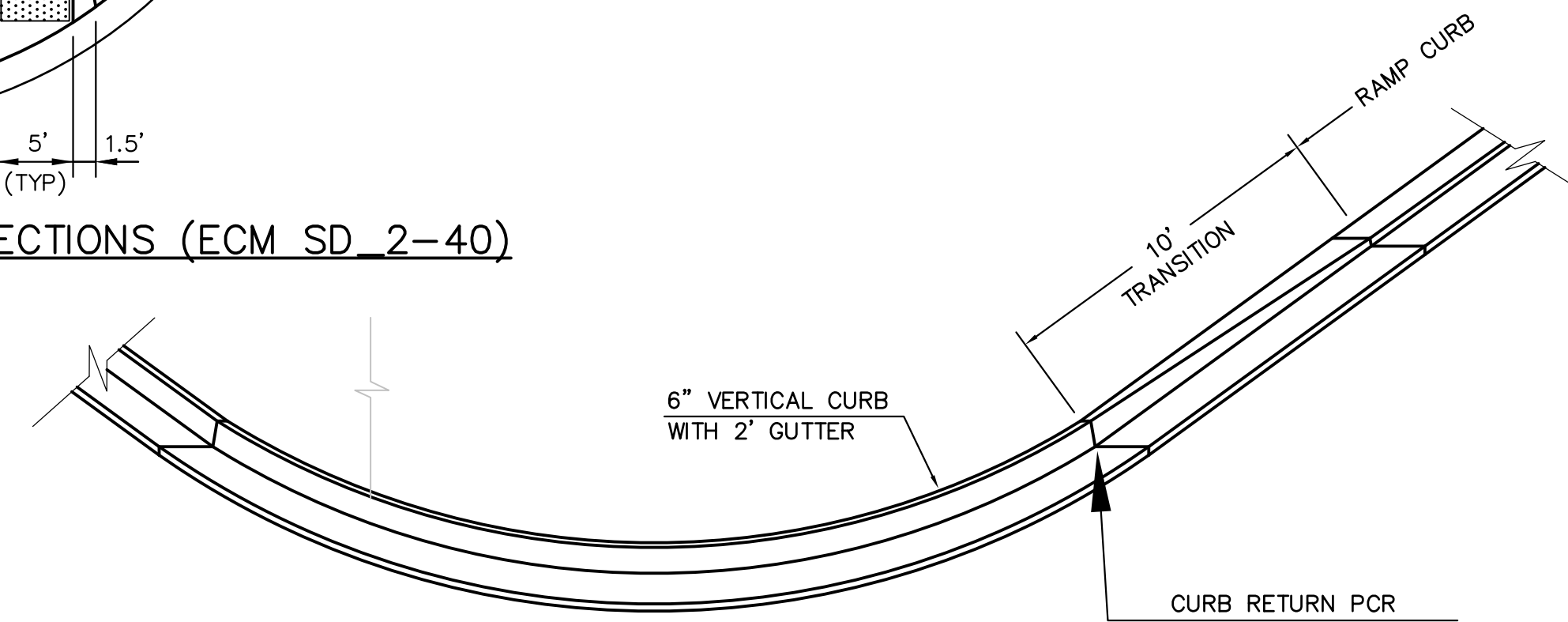
CURB DETAILS (ECM SD 2-20)



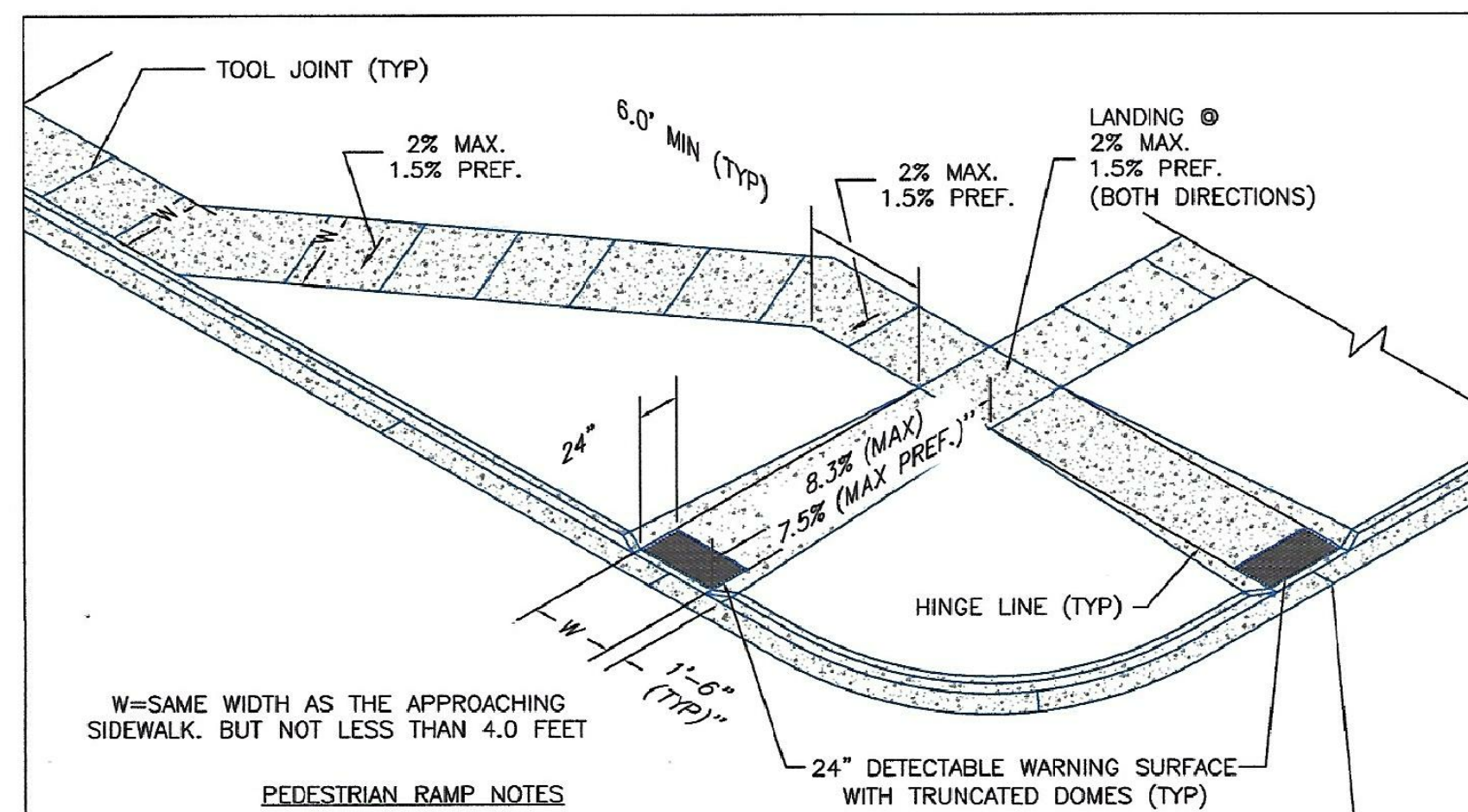
PEDESTRIAN RAMPS AT INTERSECTIONS (ECM SD 2-40)  
 NO SCALE



CURB INLET DETAIL  
 NTS



CURB TRANSITION DETAIL  
 NTS



W=SAME WIDTH AS THE APPROACHING SIDEWALK, BUT NOT LESS THAN 4.0 FEET

PEDESTRIAN RAMP NOTES

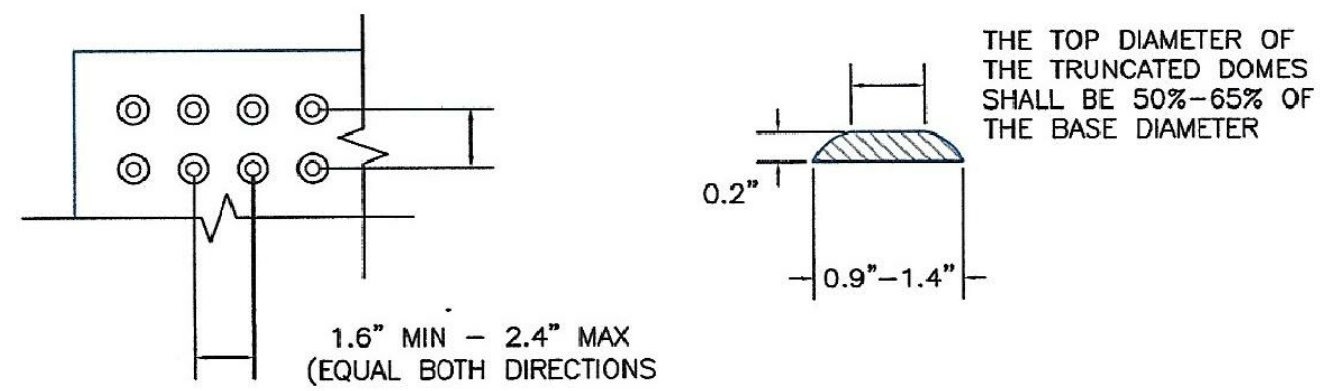
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN CURB RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
- PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS. SEE ECM SECTION 6.3.6 FOR PEDESTRIAN PUSHBUTTON LOCATION REQUIREMENTS.
- DETECTABLE WARNING SURFACE SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING SURFACE SHALL BE PREFABRICATED, CAST IRON (PATINA NATURAL FINISH) AND IN ACCORDANCE WITH ECM CHAPTER 6 AND SD 2-42. THERMOPLASTIC TRUNCATED DOMES AND PAVERS WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING SURFACE SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- PEDESTRIAN CURB RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
- ALL PEDESTRIAN CURB RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
- DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED PEDESTRIAN CURB RAMP AREAS AND LANDINGS ARE PROHIBITED.
- THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A RAMP SHALL NOT EXCEED 5%.

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

GENERAL NOTES

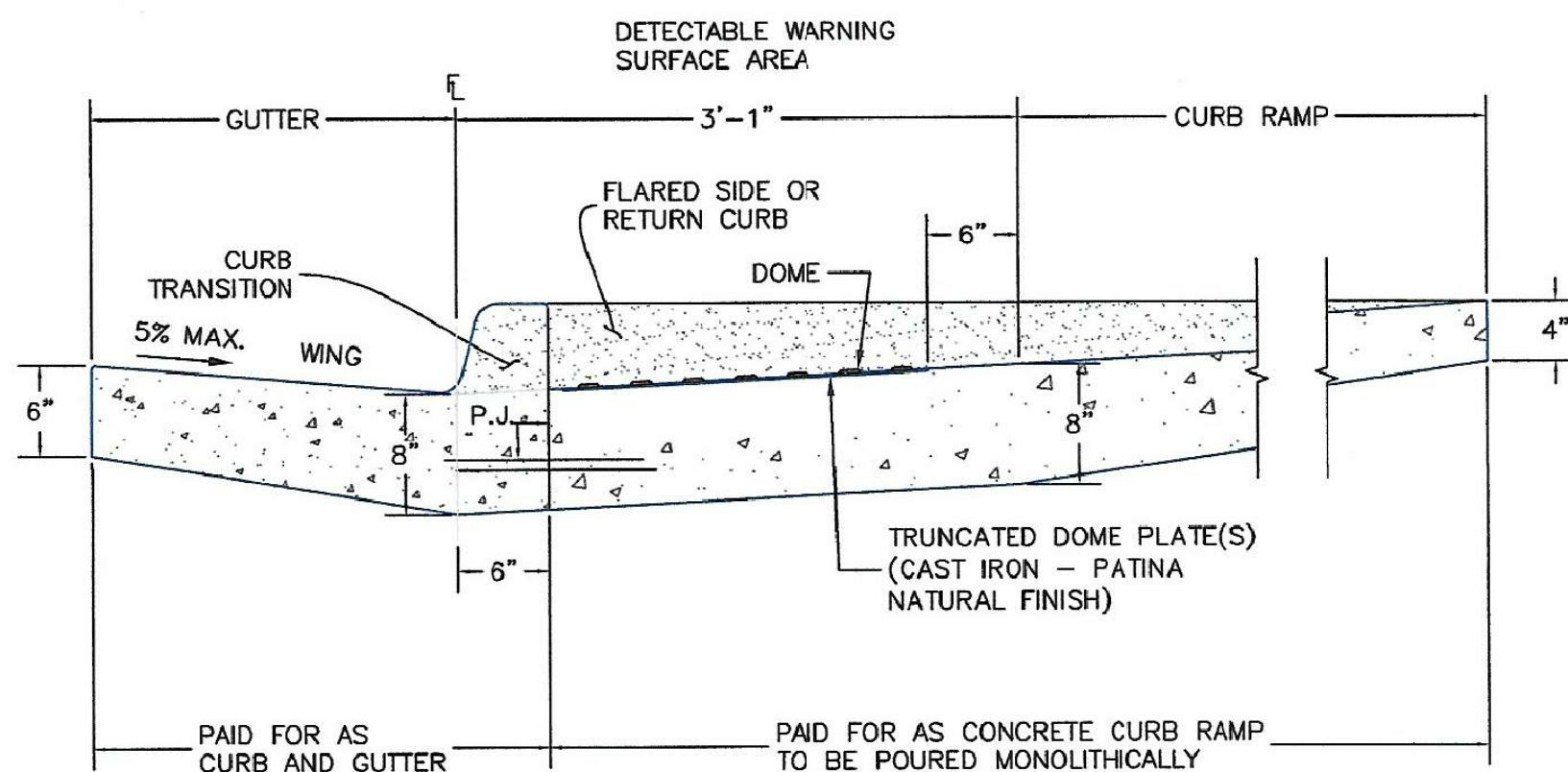
- WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA (PEDESTRIAN CIRCULATION PATH), THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN WALKWAY (PEDESTRIAN ACCESS ROUTE) AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS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

TRUNCATED DOME DETAILS



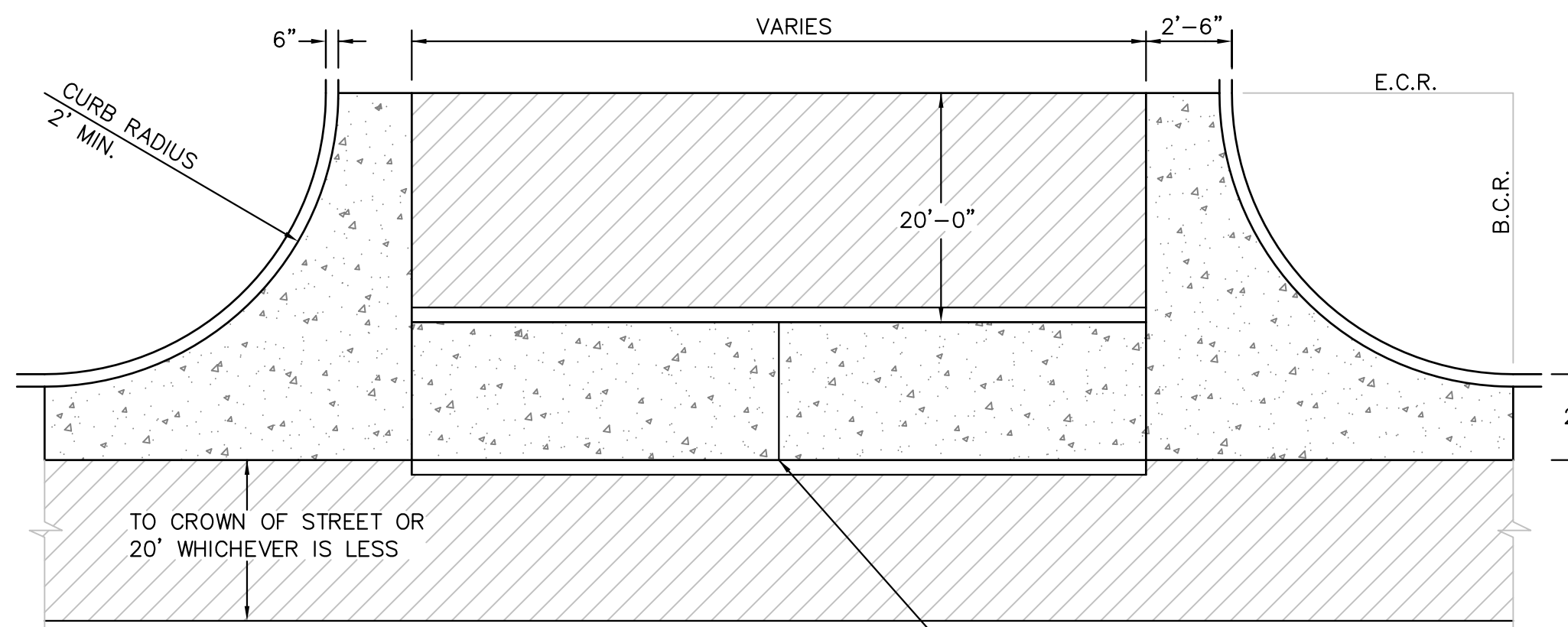
DOMES SPACING

ELEVATION VIEW

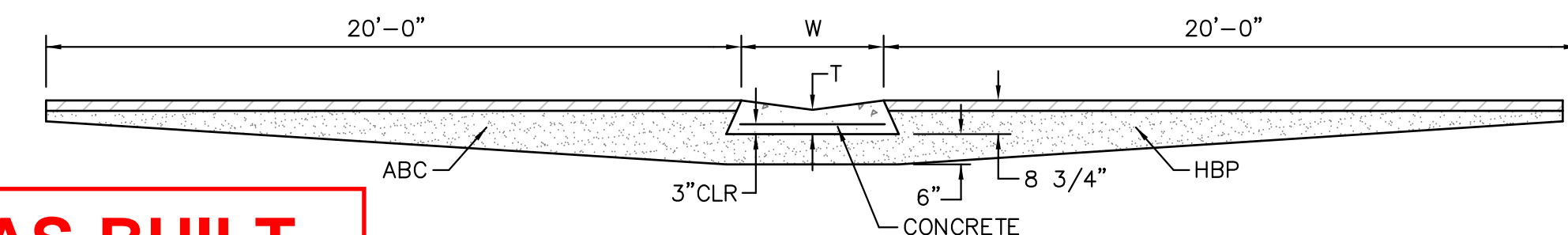


P.J. = PERMISSIBLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING

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



PLAN VIEW



SECTION A - A

TYPICAL CROSSSPAN LAYOUT (ECM SD 2-26)  
 NO SCALE

**AS-BUILT  
 STREET-STM  
 DEC 29, 2022**

NOTES

- W = WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, 10' FOR ARTERIAL ROADS.
- 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).
- DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

6/23/20  
 DATE APPROVED:  
 Jennifer E. Irvine  
 DEPARTMENT OF PUBLIC WORKS

Pedestrian Curb Ramp Detail  
 Standard Drawing

REVISION DATE: 6/23/20  
 FILE NAME: SD\_2-41

6/23/20  
 DATE APPROVED:  
 Jennifer E. Irvine  
 DEPARTMENT OF PUBLIC WORKS

Detectable Warning Surface Details  
 Standard Drawing

REVISION DATE: 6/23/20  
 FILE NAME: SD\_2-42

**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. WAHSATCH AVE, SUITE 301  
 COLORADO SPRINGS, COLORADO 80903  
 (719) 635-5200  
 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

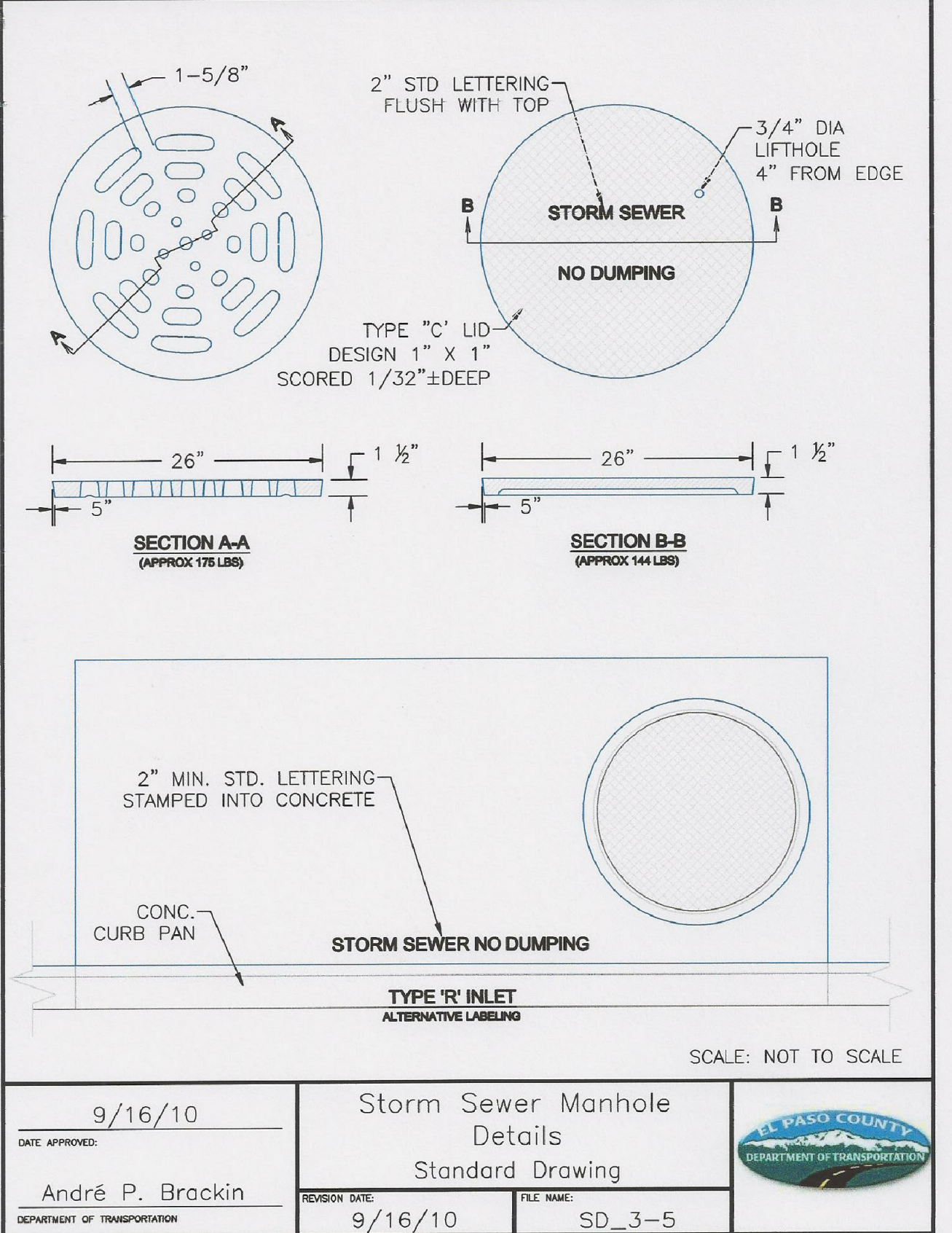
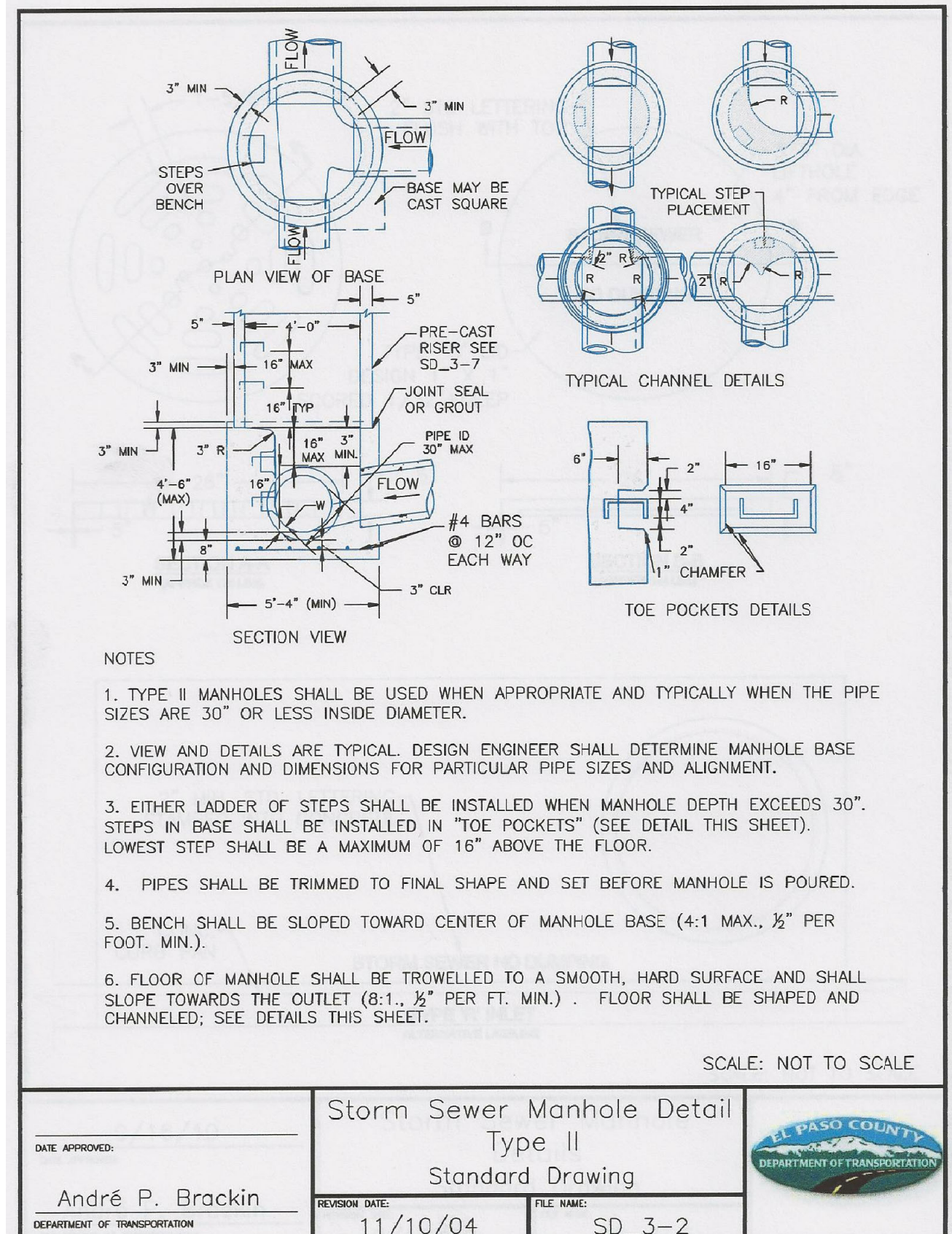
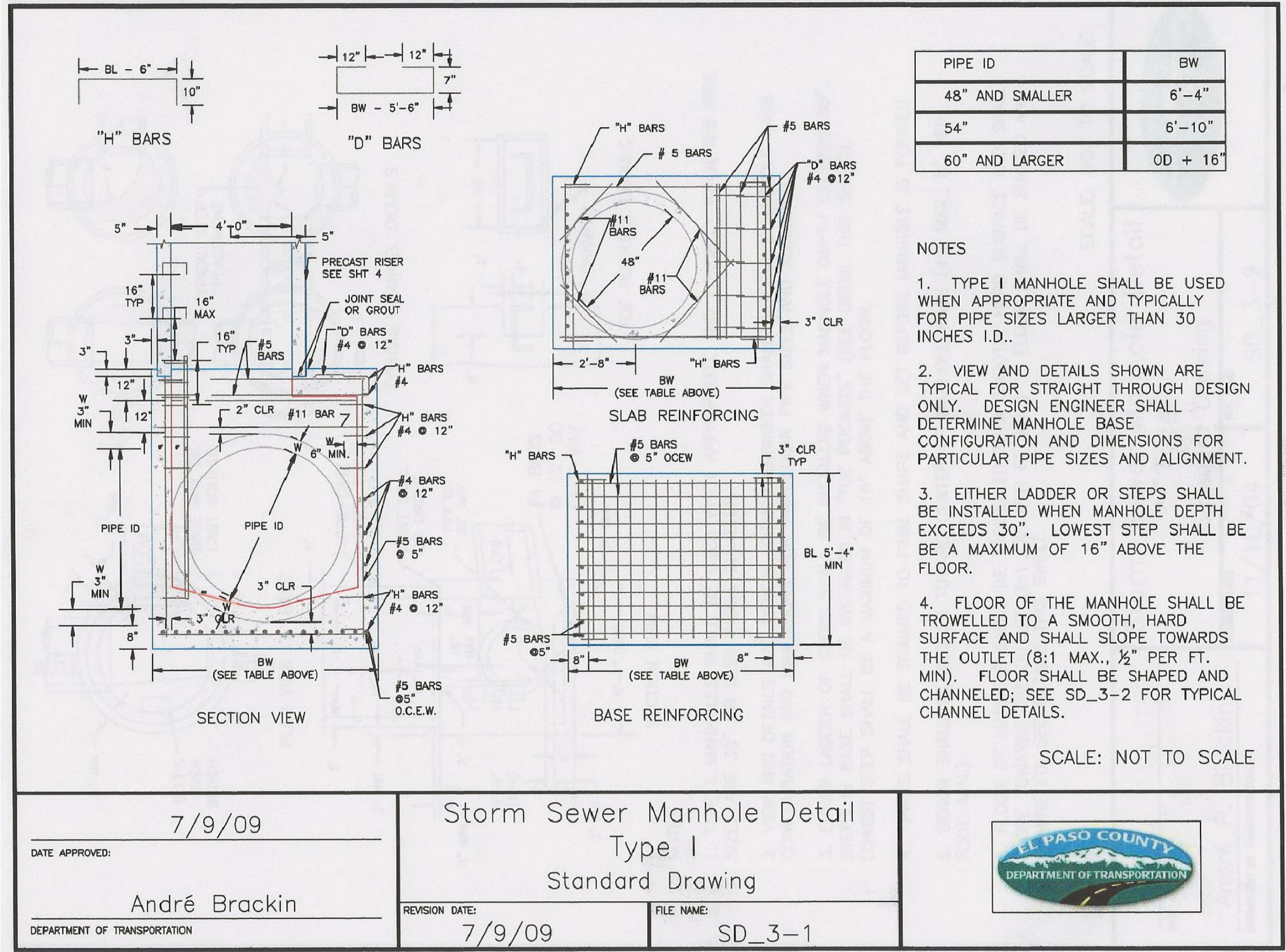
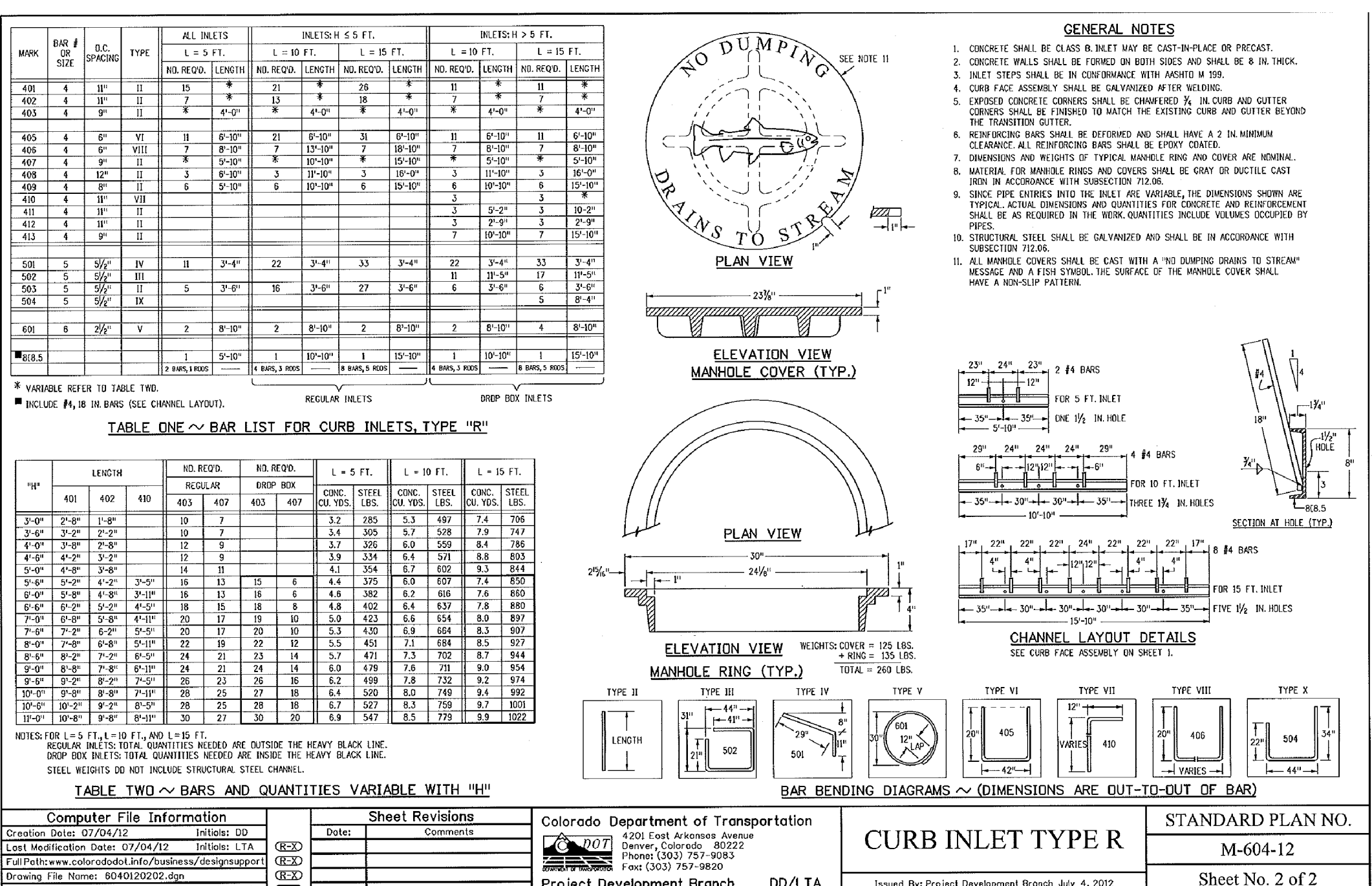
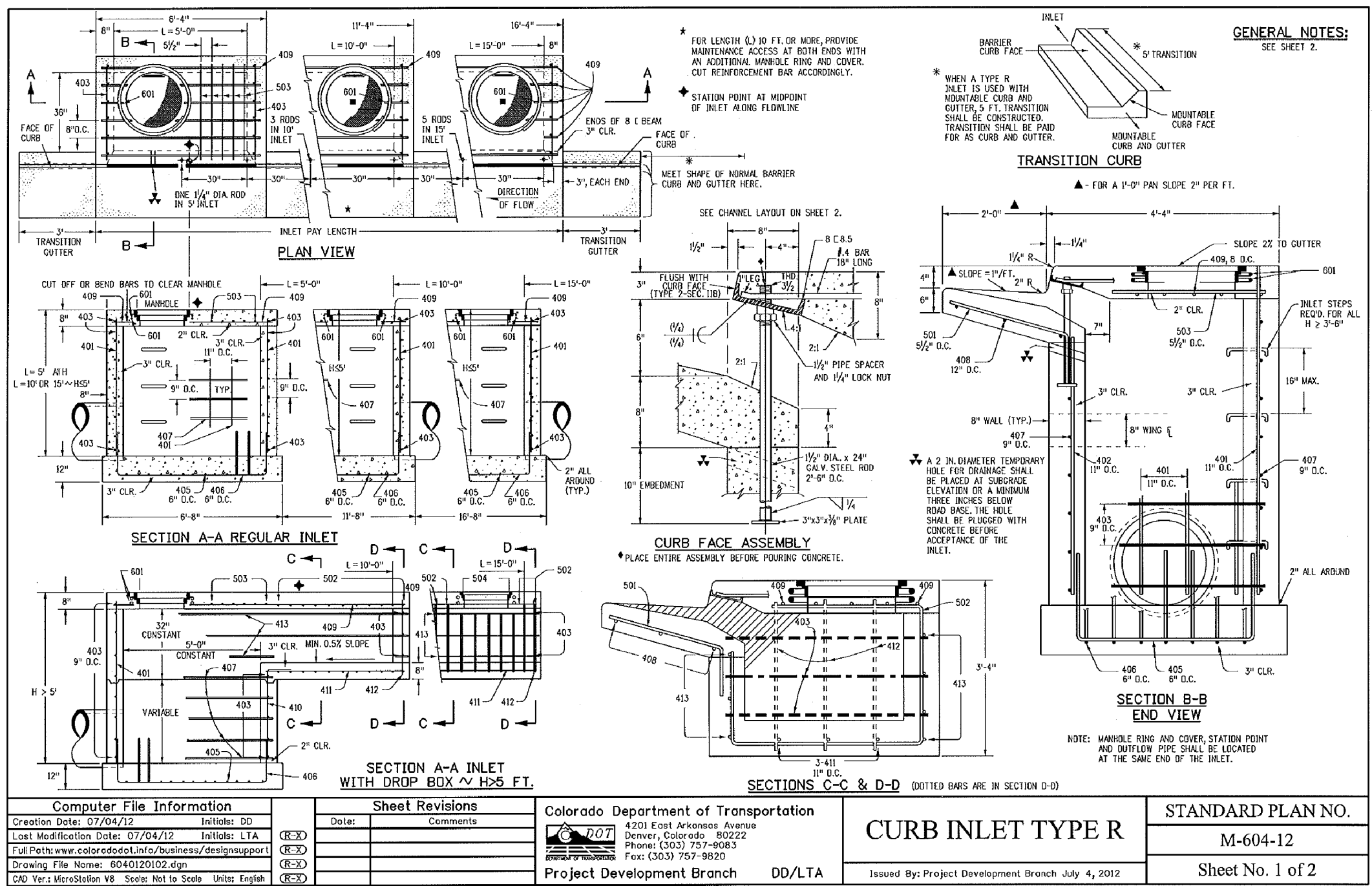
ROADWAY DETAIL SHEET

DATE:  
 NOV 12, 2020

PROJECT NO.  
 100.061

SHEET NUMBER  
 C10.1

TOTAL SHEETS: 58



**AS-BUILT**  
 STREET-STM  
 DEC 29, 2022

**CORE ENGINEERING GROUP**  
 15004 15TH AVE. SUITE 35506  
 PLYMOUTH, CO 80453  
 CONTACT: RICHARD L. SCHINDLER, P.E.  
 EMAIL: Rich@cegi.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 BLDG - WALLEYE DR - LAMPREY DR  
 COLORADO SPRINGS, COLORADO  
 CONTACT: JEFF MARK

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

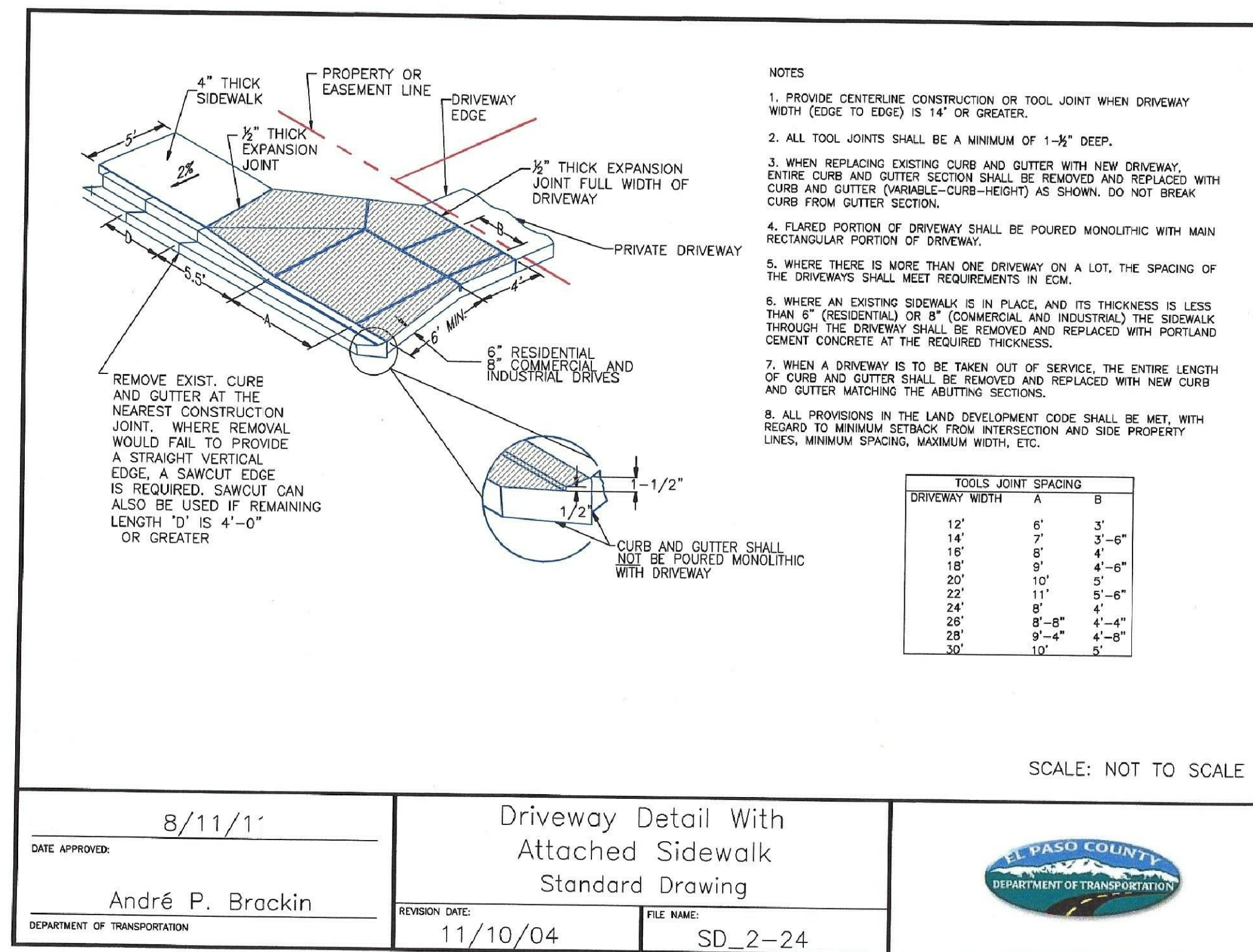
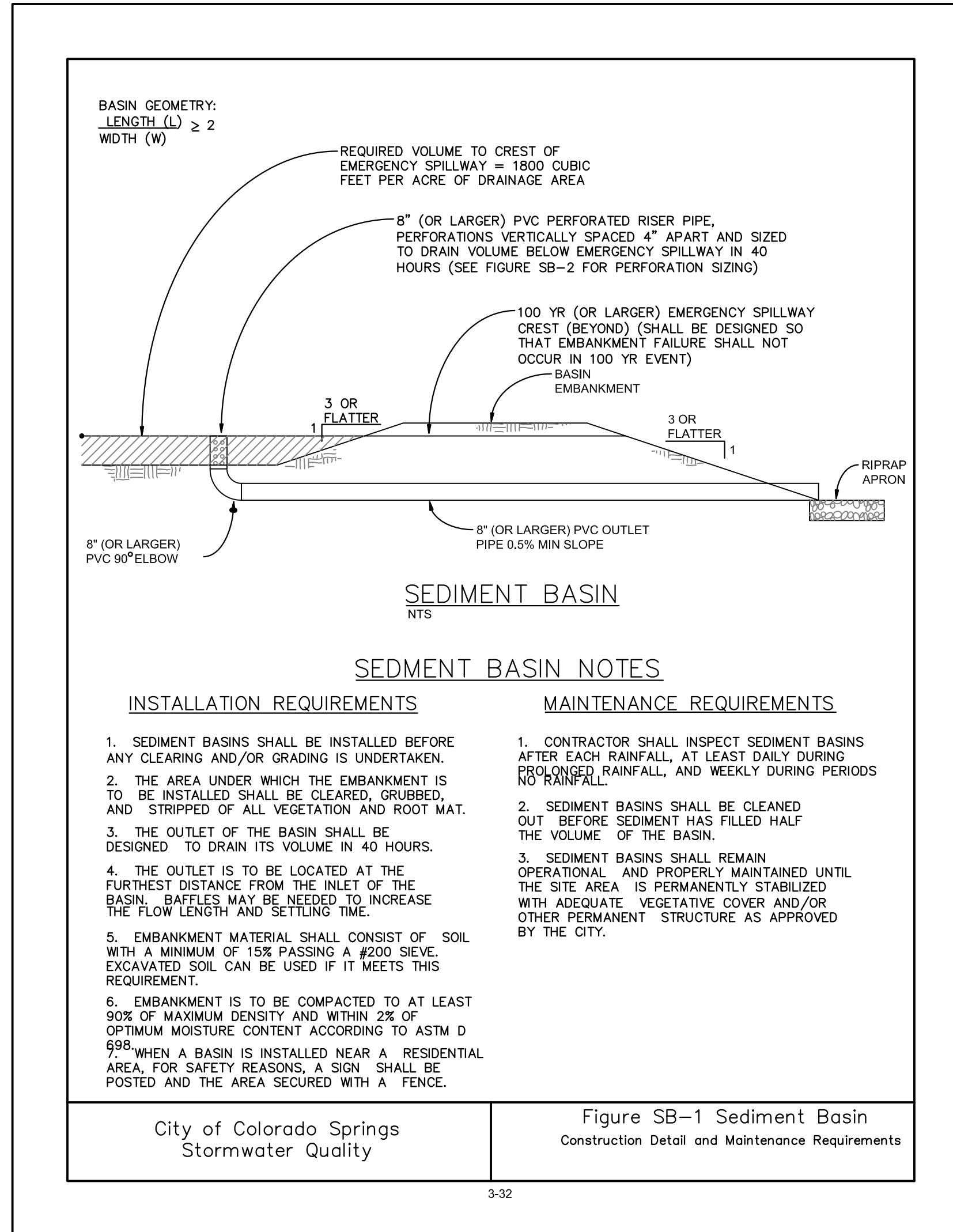
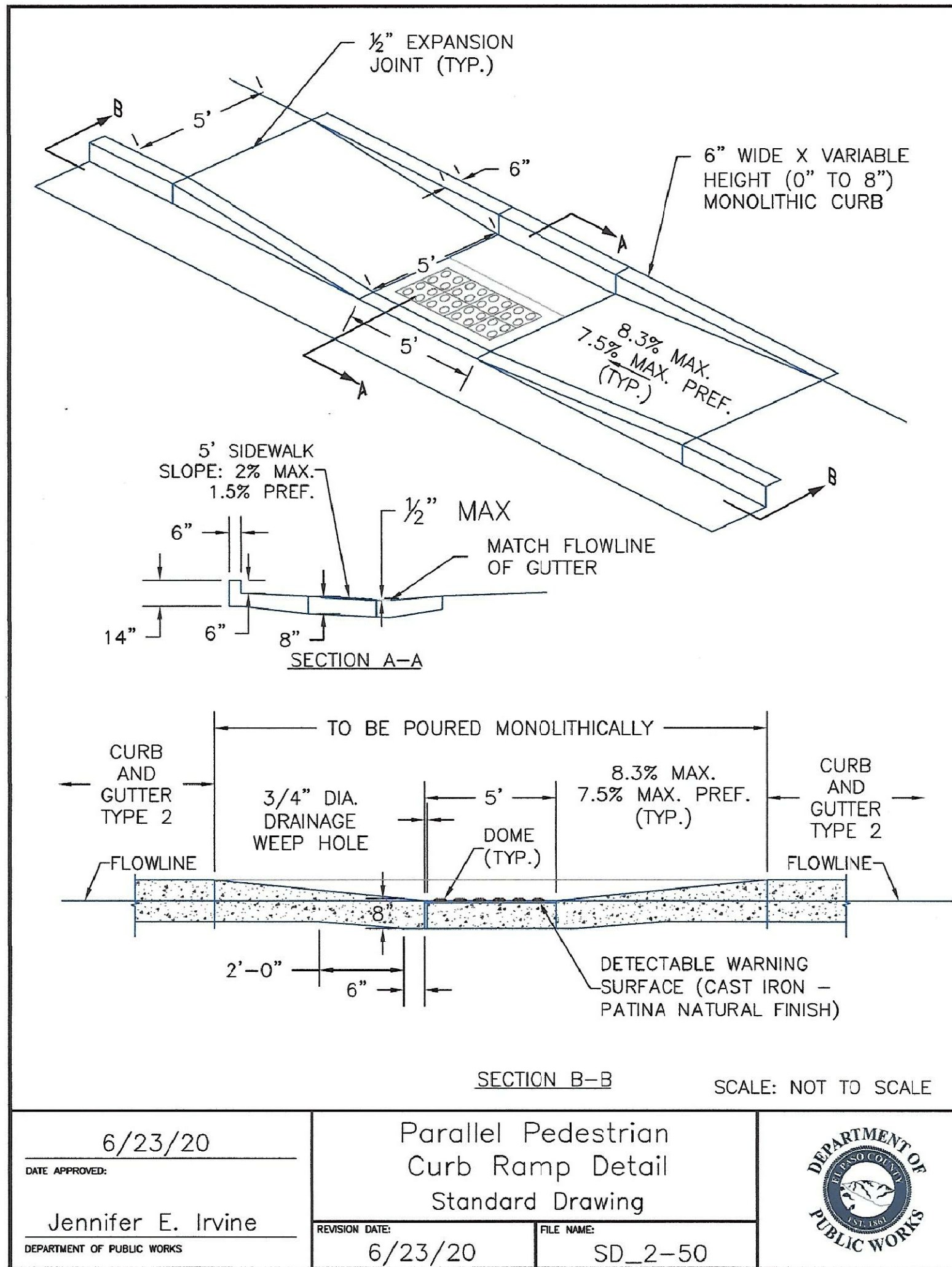
DATE: NOV 12, 2020

PROJECT NO. 100.061

SHEET NUMBER C10.2

TOTAL SHEETS: 58

PROFESSIONAL ENGINEER  
 RICHARD L. SCHINDLER, P.E.  
 33997  
 11-12-2020



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

**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: NOV 12, 2020

PROJECT NO. 100.061

SHEET NUMBER C10.3

TOTAL SHEETS: 58

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

DATE APPROVED: 8/11/11  
 NAME: André P. Brackin  
 DEPARTMENT OF TRANSPORTATION

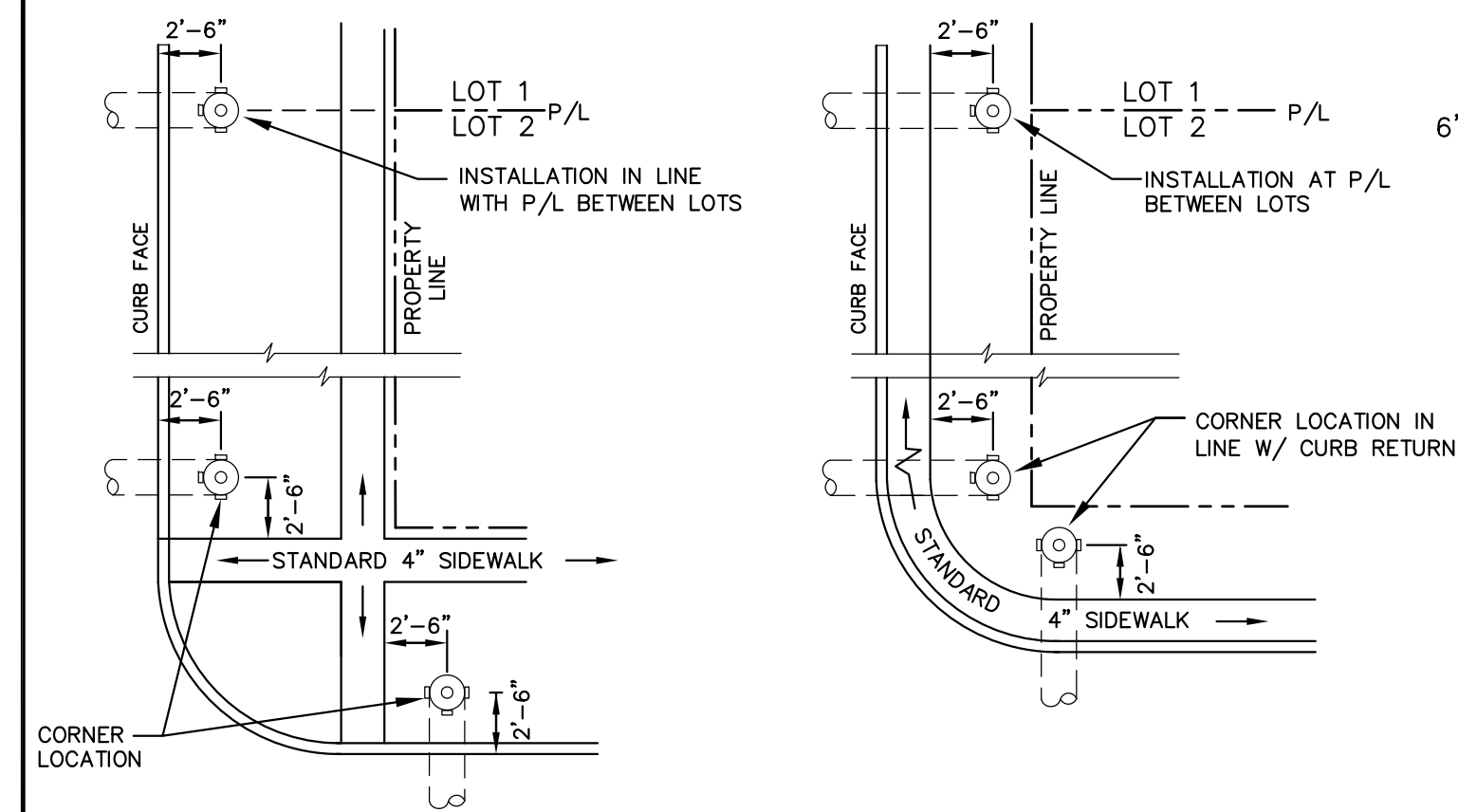
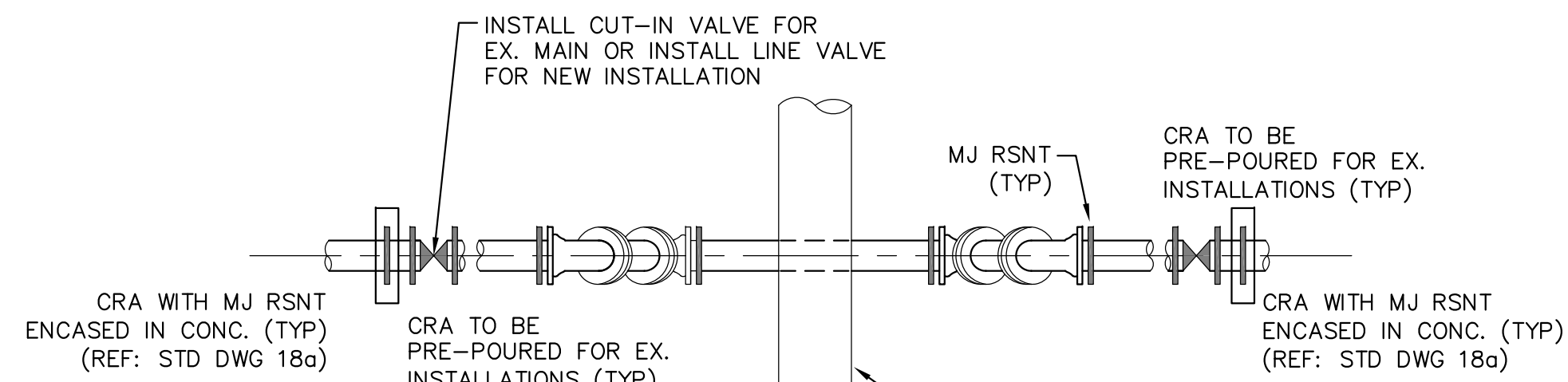
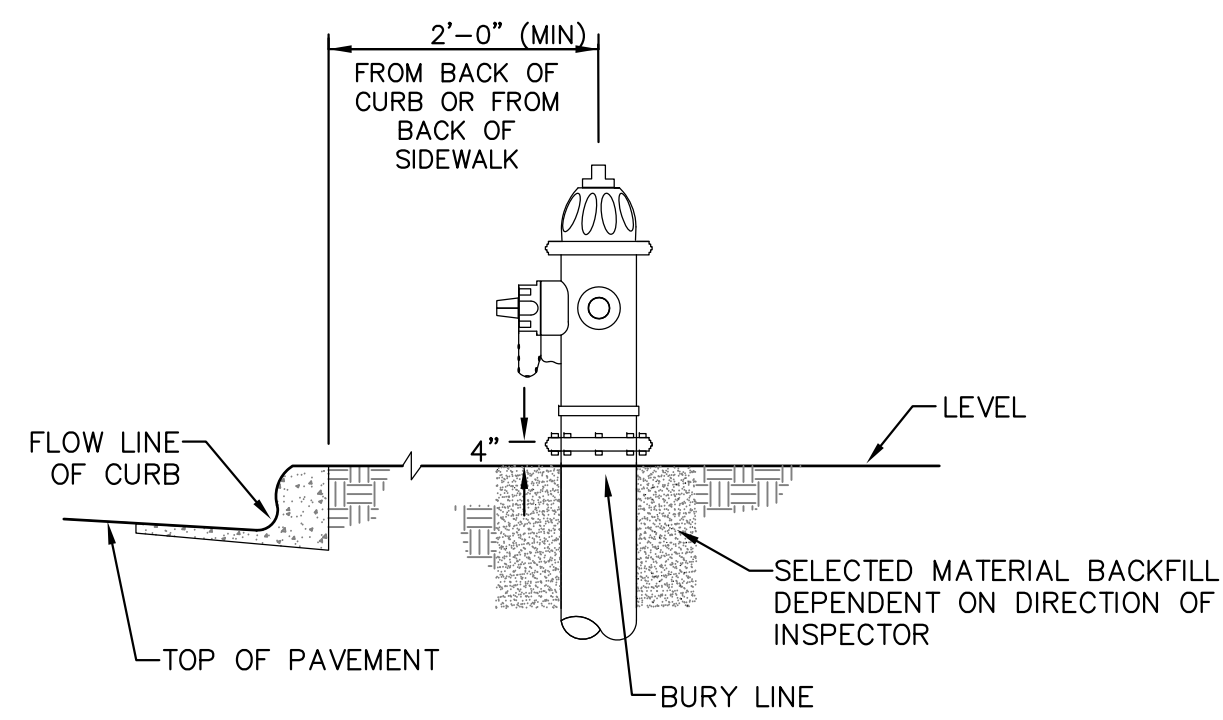
REVISION DATE: 11/10/04  
 FILE NAME: SD\_2-24

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

**AS-BUILT STREET-STM DEC 29, 2022**

PROFESSIONAL ENGINEER  
 33997  
 11-12-2020





**DETACHED SIDEWALK LOCATION**  
NO SCALE

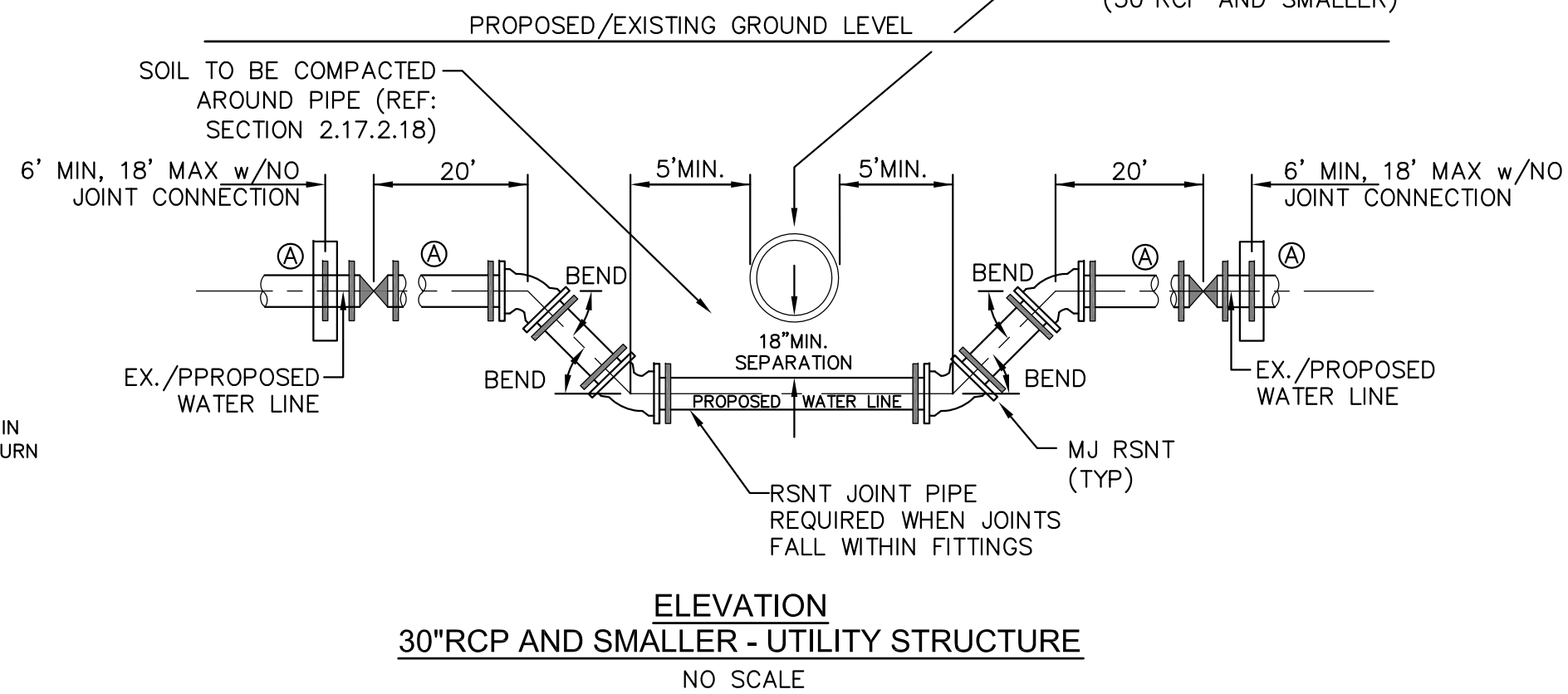
**ATTACHED SIDEWALK LOCATION**  
NO SCALE

**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.

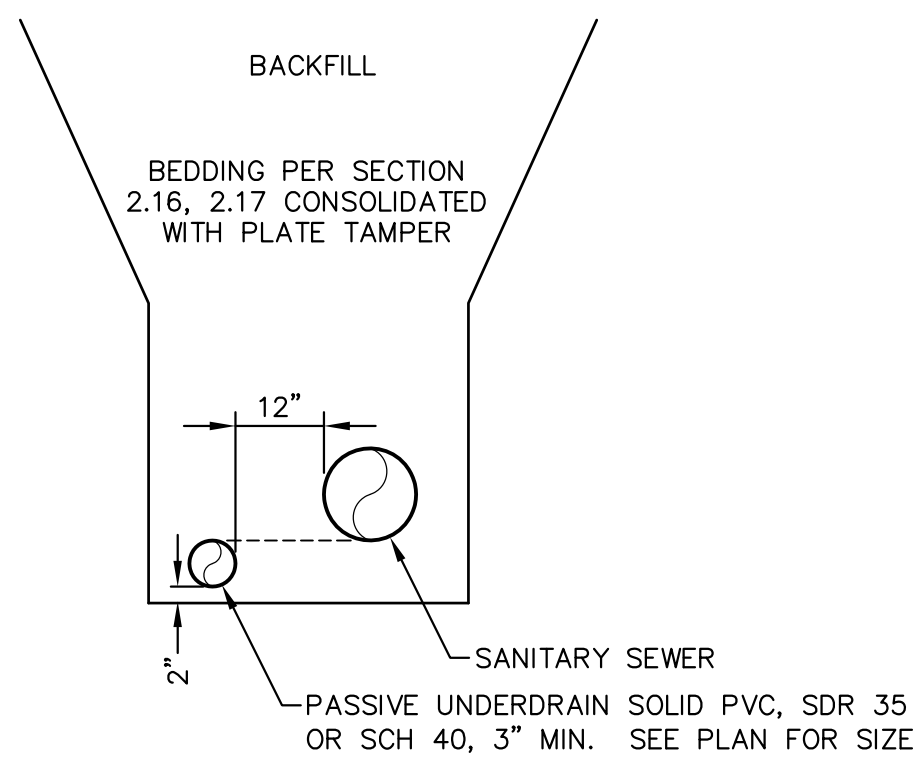
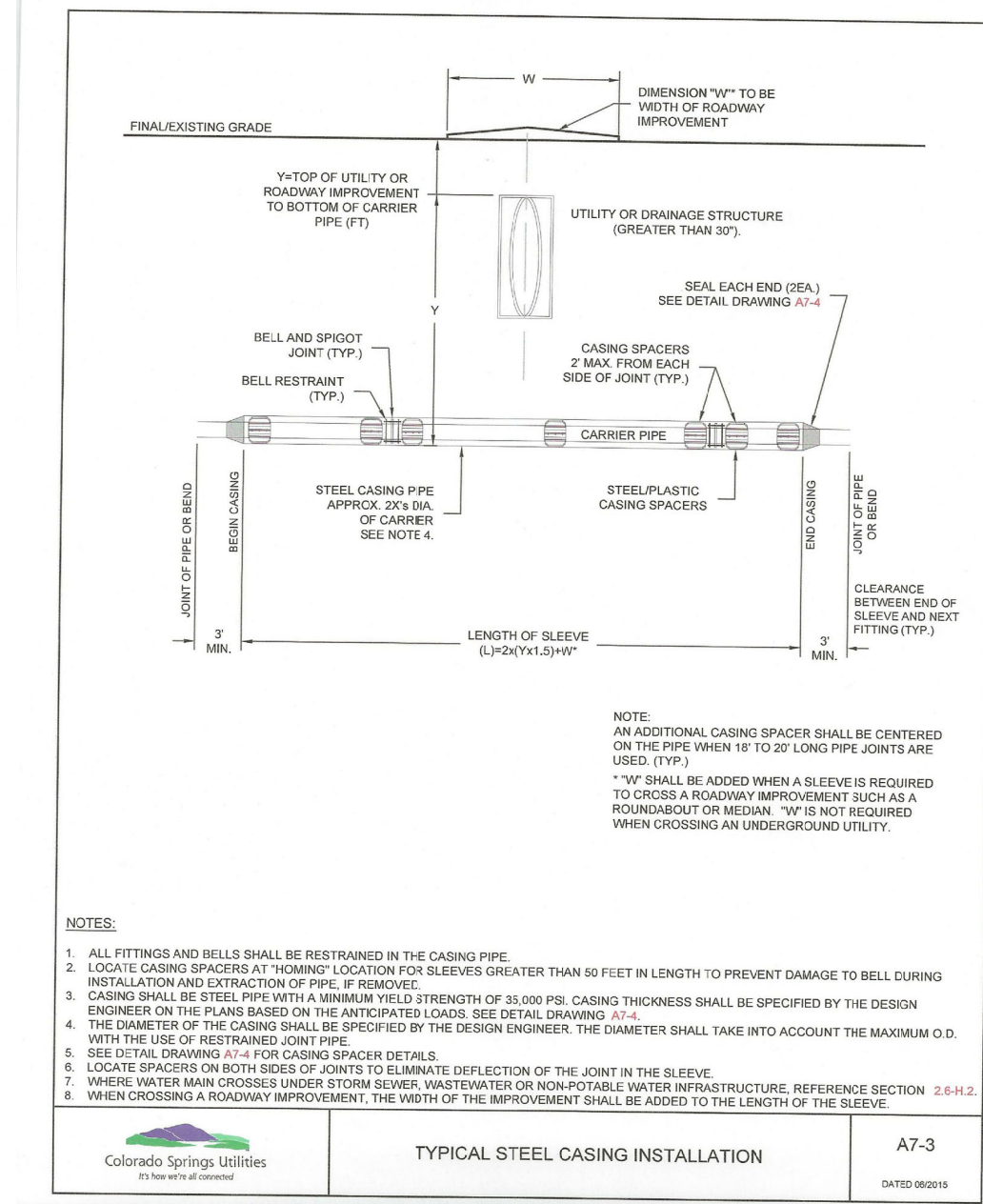
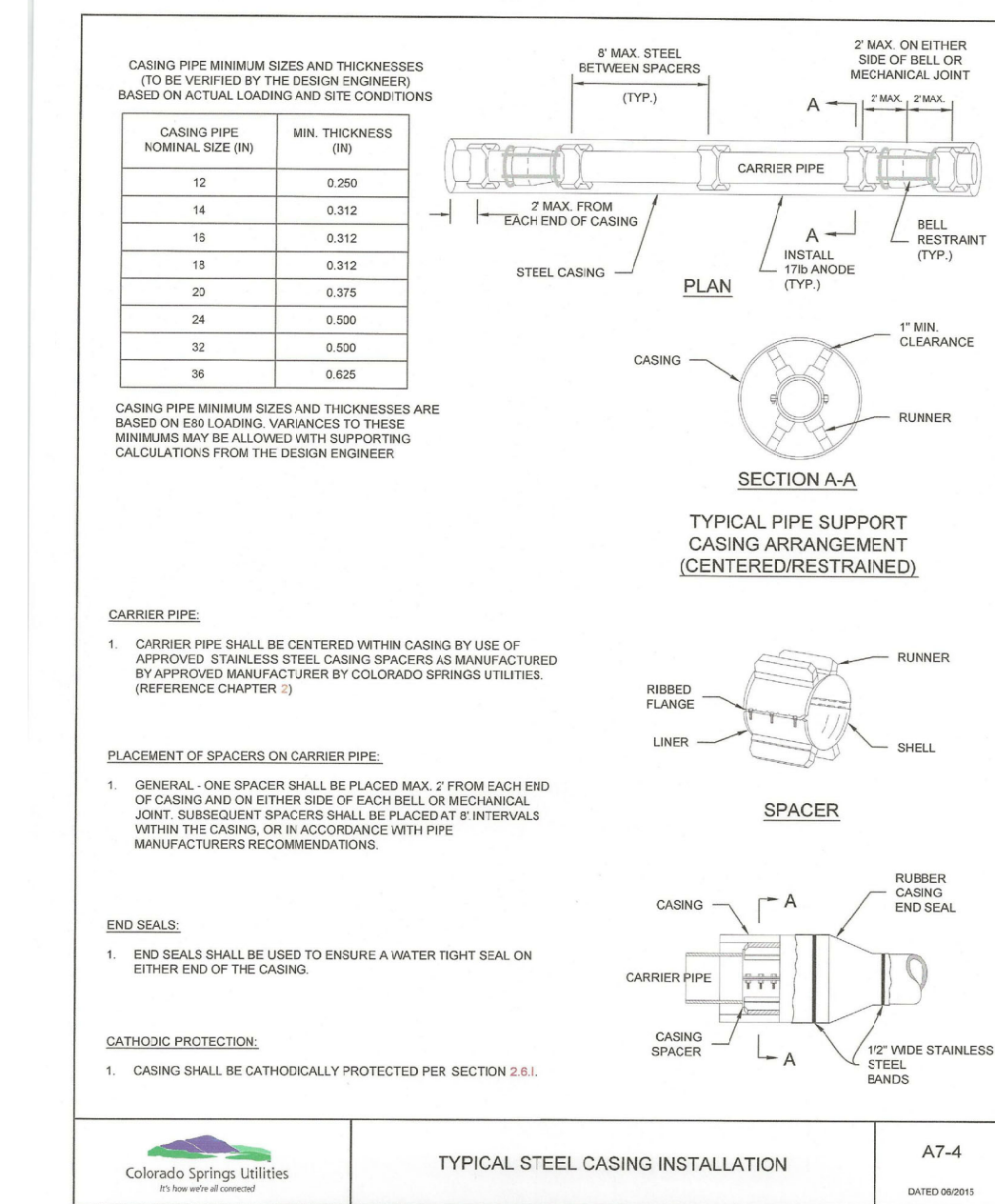
**FIRE HYDRANT LOCATIONS**  
NO SCALE



**GENERAL NOTES**

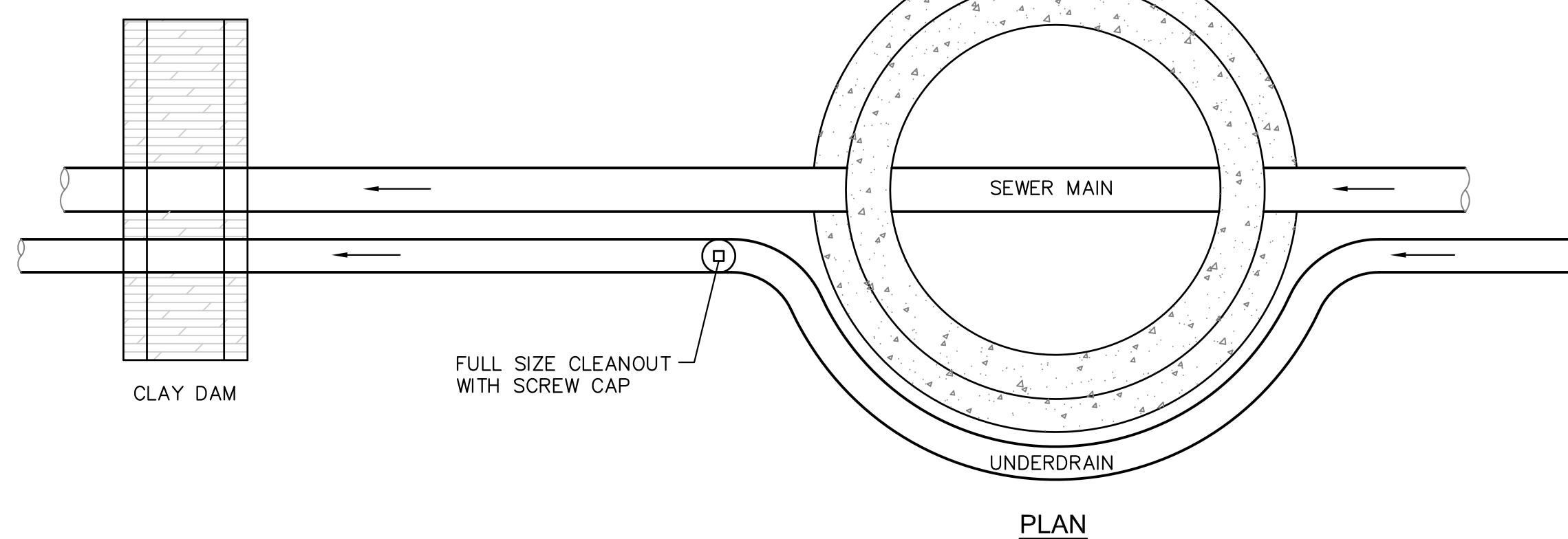
- D.I.P. PIPE REQUIRED IN LOWERINGS (AT THE DISCRETION OF THE WRD/INSPECTOR PVC PIPE MAYBE APPROVED).
- Ⓐ LOWERINGS TO BE CATHODIC PROTECTED UNDER THE DIRECTION OF THE WRD INSPECTOR. (17 lb).
- ALL FITTINGS SHALL HAVE MJ RSNTS. SEE DRAWINGS NO. 27, 28 & SECTION 5.14 OF THE WRD SPECIFICATIONS.
- EXAMPLE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

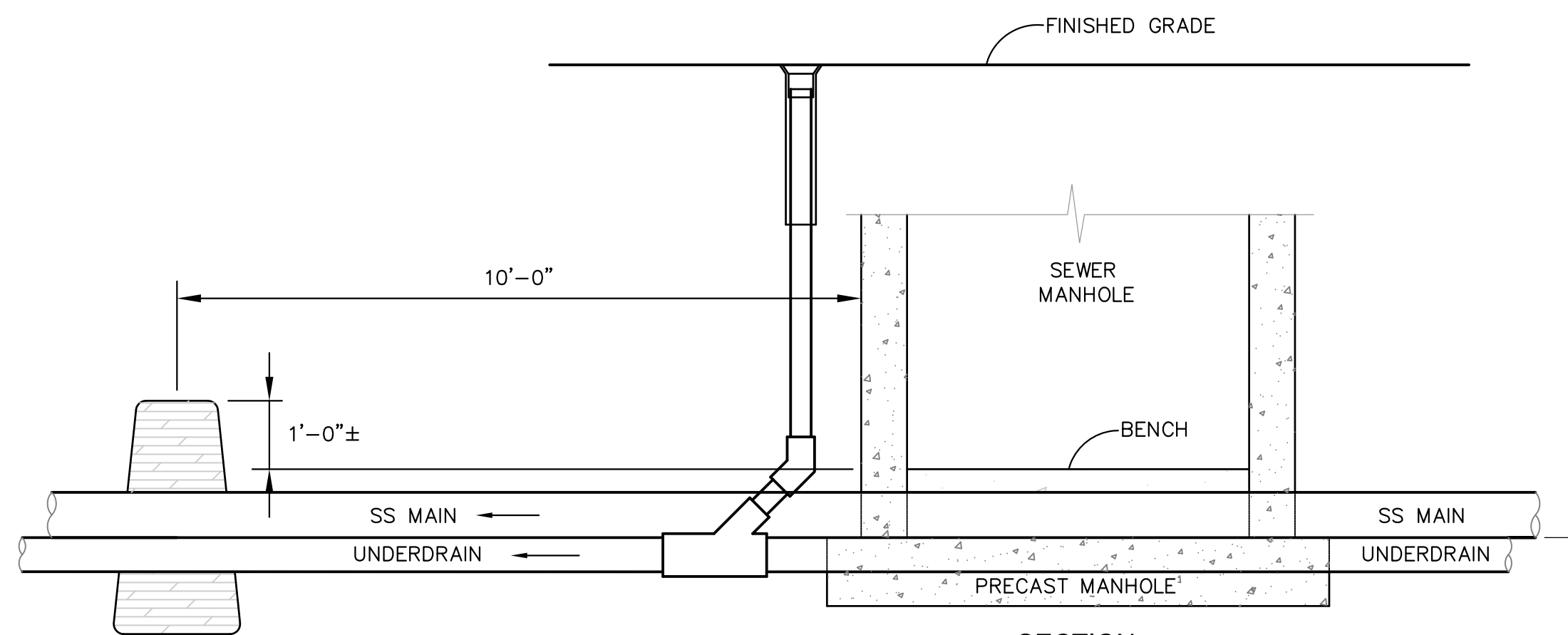


**SANITARY SEWER PASSIVE UNDERDRAIN DETAIL**  
(PER CSU STANDARD # WW-11A)  
NO SCALE

**NOTE:**  
POINT OF DISCHARGE TO PUBLIC SYSTEM IS REQUIRED. UNDERDRAIN CONNECTIONS SHALL BE 3\"/>



**PLAN**



**GROUNDWATER UNDERDRAIN CLEANOUT (PASSIVE) LOCATIONS OUTSIDE MANHOLE**

(PER CSU STANDARD # WW-12)  
NO SCALE

TOP OF UNDERDRAIN EQUALS BOTTOM OF SEWER MAIN UNLESS NOTED OTHERWISE

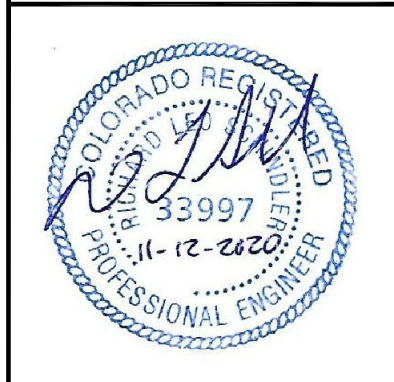
**AS-BUILT**  
**STREET-STM**  
**DEC 29, 2022**

**CORE ENGINEERING GROUP**  
15004 1ST AVENUE S.  
BURNSVILLE, MN 55306  
PH: 718.970.1100  
CONTACT: RICHARD L. SCHINDLER, P.E.  
EMAIL: rich@cegi.com

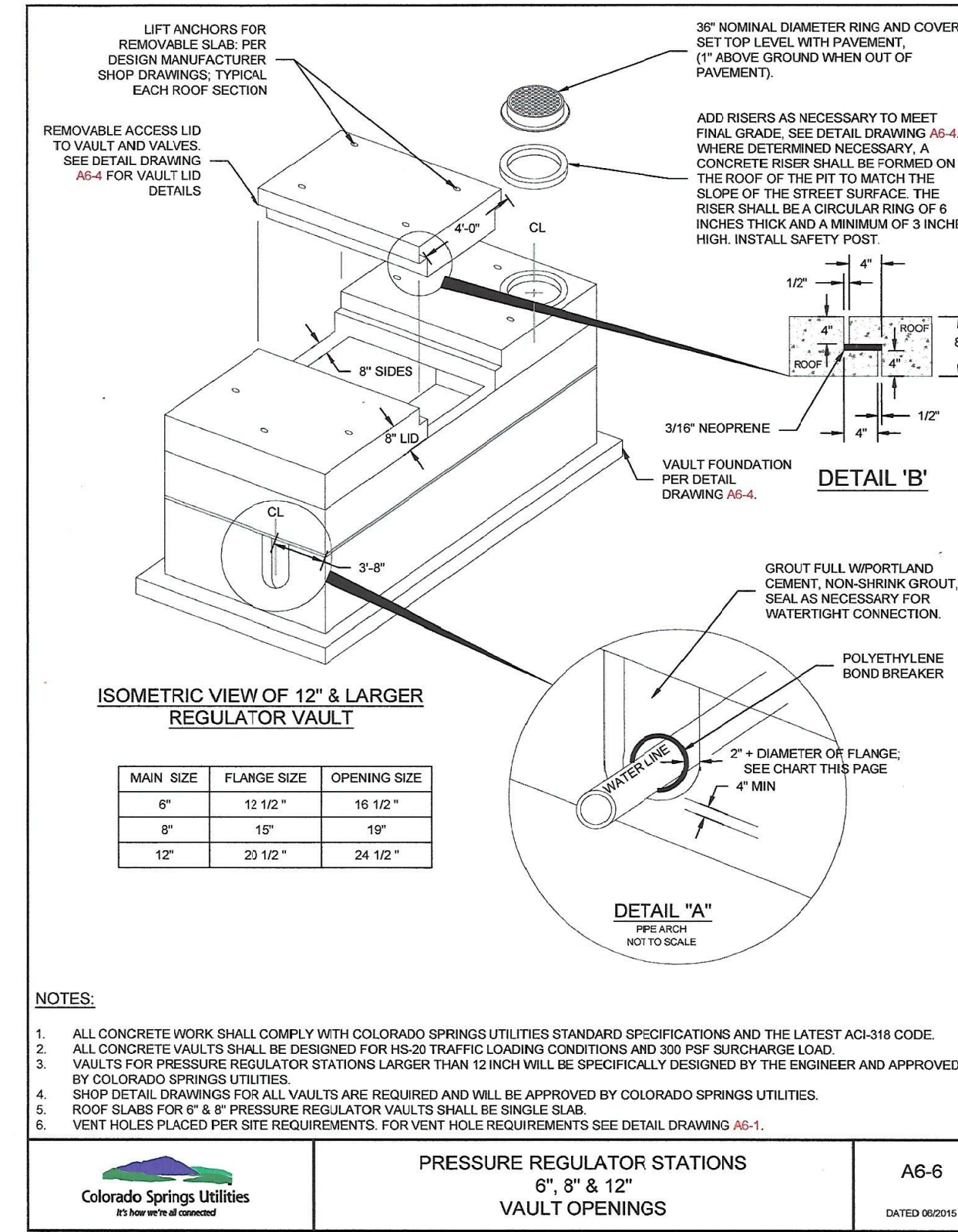
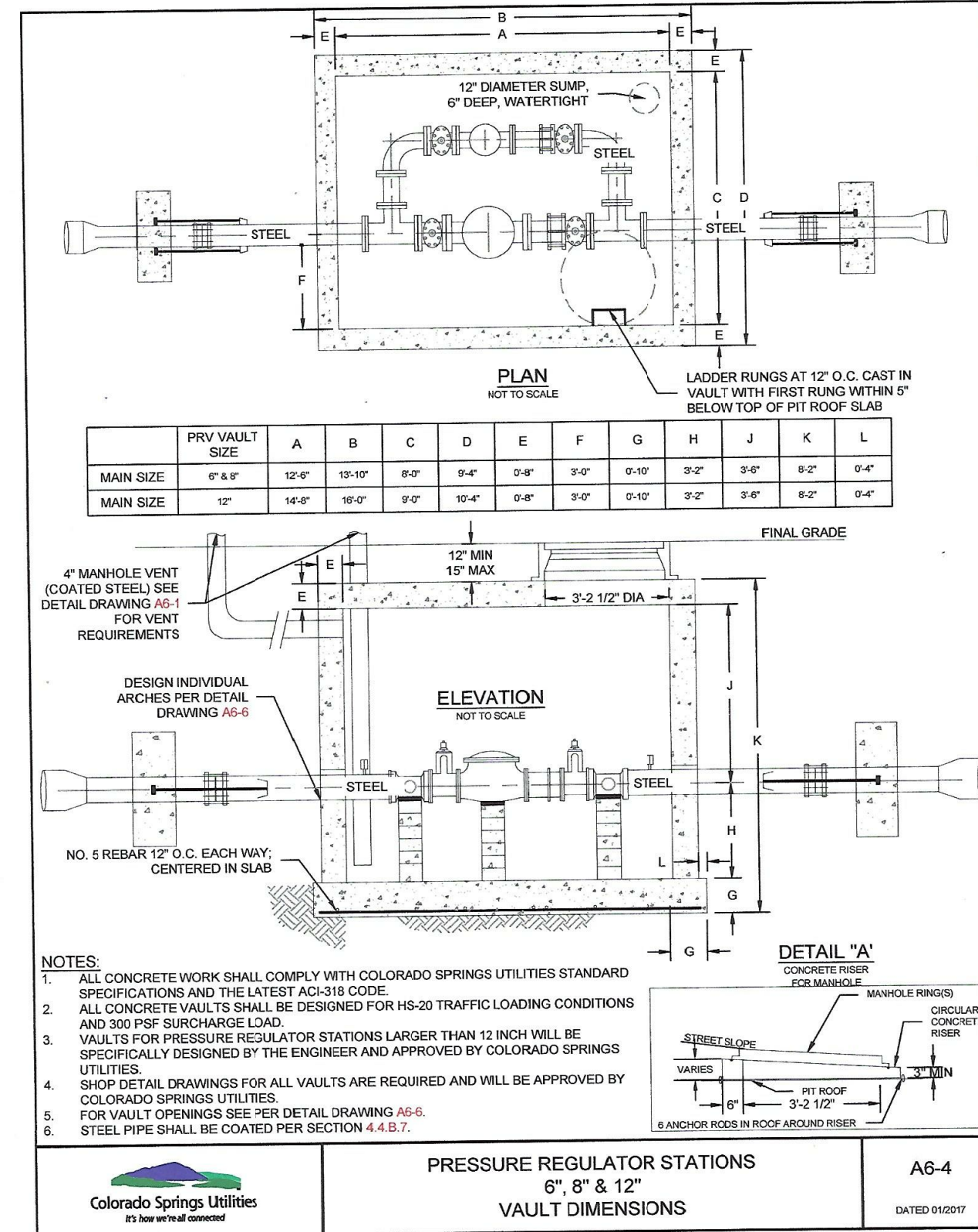
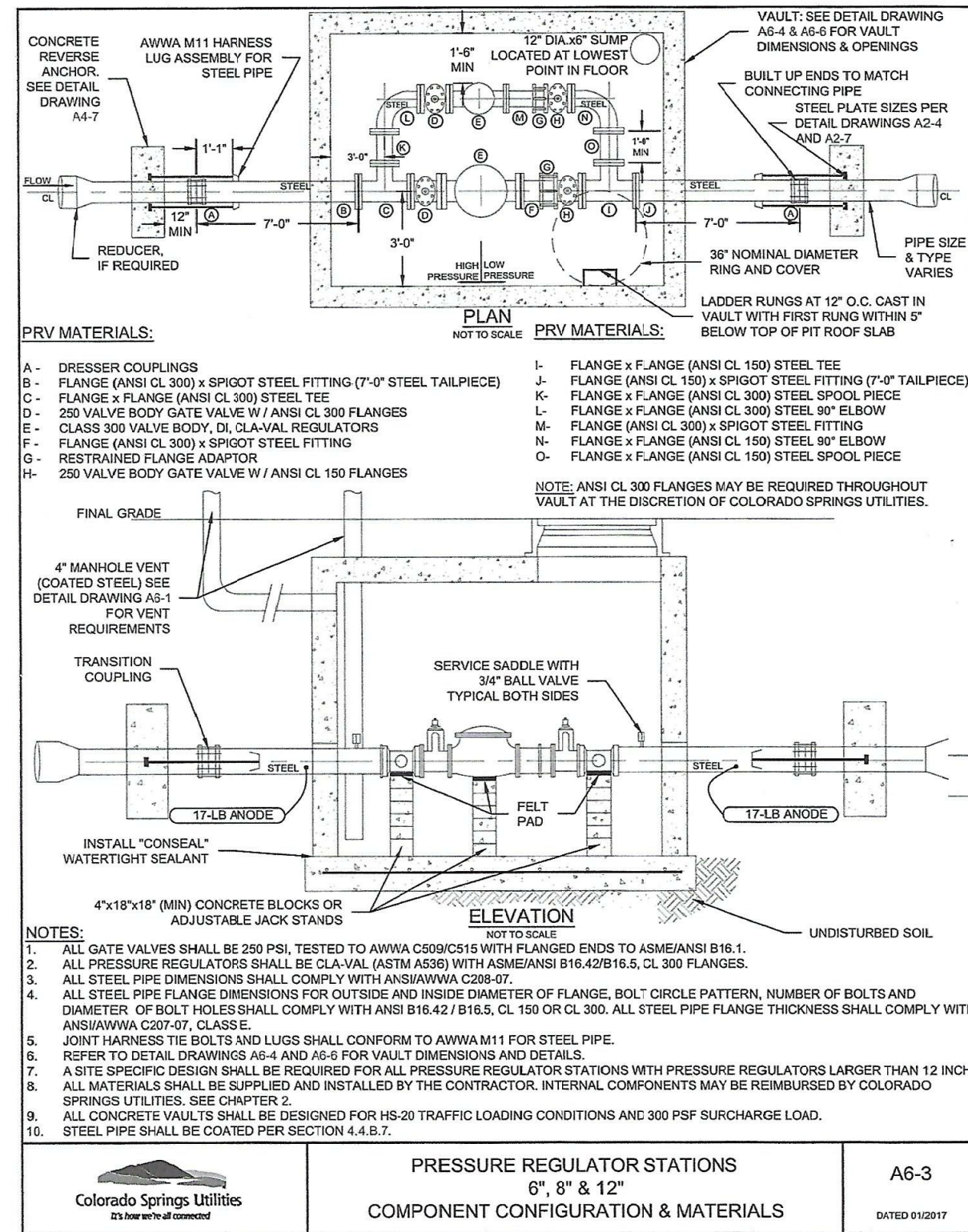
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DESCRIPTION: \_\_\_\_\_  
NO. \_\_\_\_\_  
PREPARED FOR: **LORSON, LLC**  
PROJECT: **THE HILLS COLLECTOR STREET CONSTRUCTION**  
212 N. WAHSAATCH AVE, SUITE 301  
COLORADO SPRINGS, COLORADO 80903  
CONTACT: JEFF MARK

DRAWN: RLS  
DESIGNED: RLS  
CHECKED: RLS

**WATER/SEWER DETAILS**



DATE: NOV 12, 2020  
PROJECT NO: 100.061  
SHEET NUMBER: C12.1  
TOTAL SHEETS: 58



**AS-BUILT**  
 STREET-STM  
 DEC 29, 2022

**WATER/SEWER DETAILS**

**CORE ENGINEERING GROUP**  
 15004 1ST AVENUE S.  
 BURNSVILLE, MN 55306  
 PH: 718.970.1100  
 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

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

CONTACT: JEFF MARK

DRAWN: RLS  
 DESIGNED: RLS  
 CHECKED: RLS

DATE: NOV 12, 2020

PROJECT NO. 100.061

SHEET NUMBER C12.2

TOTAL SHEETS: 58

**COLORADO REGISTERED PROFESSIONAL ENGINEER**  
 RICHARD L. SCHINDLER  
 33997  
 11-12-2020