

# HAVEN VALLEY

## EL PASO COUNTY, COLORADO

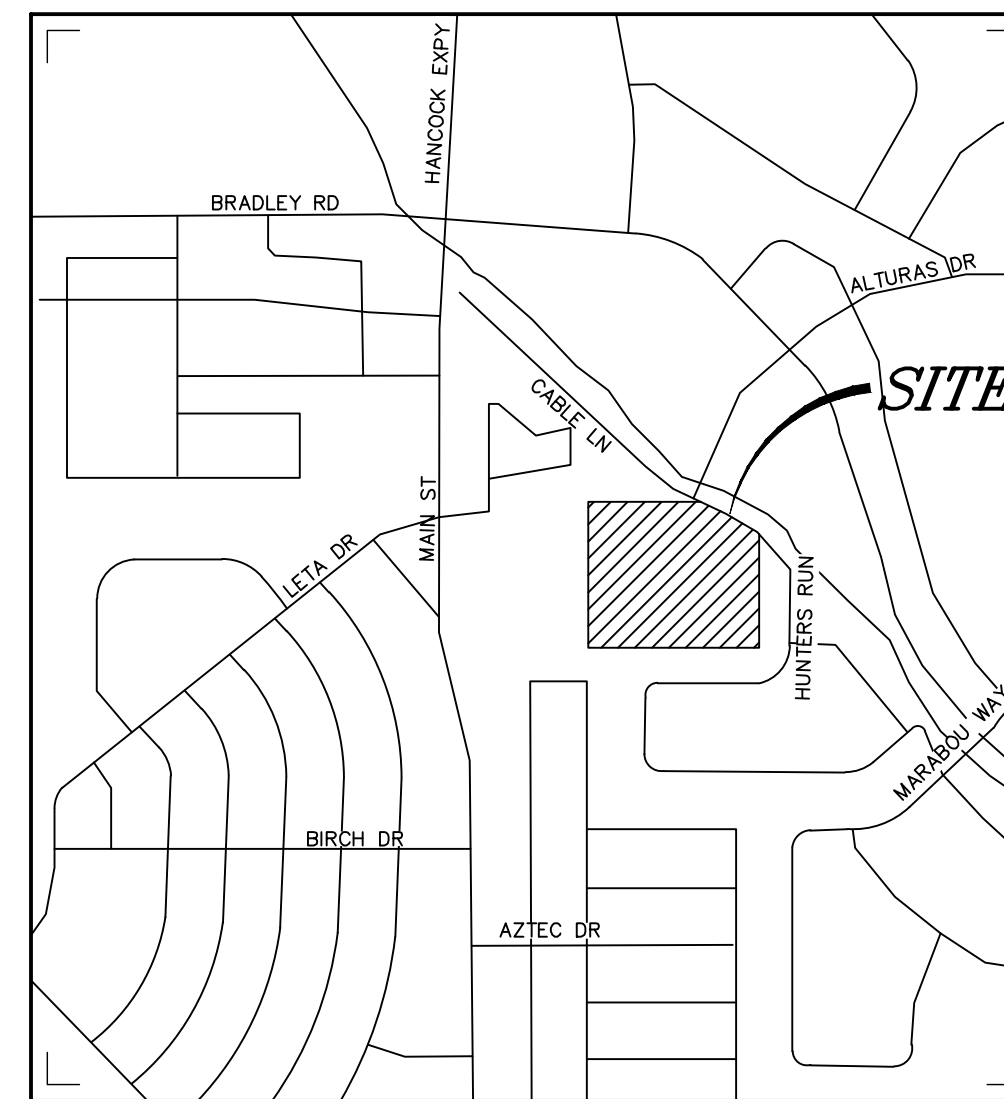
### GRADING AND EROSION CONTROL DOCUMENTS

#### AGENCY CONTACTS

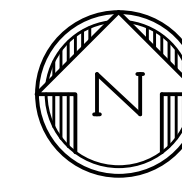
|                    |   |                  |  |
|--------------------|---|------------------|--|
| <b>ENGINEERING</b> | EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT<br>JOSHUA PALMER, COUNTY ENGINEER<br>3275 AKERS DRIVE<br>COLORADO SPRINGS, CO 80922<br>(719) 520-6460                               | <b>ELECTRIC</b>  | C.S.U. ELECTRIC DEPT. SYSTEM PLANNING<br>MARY HOADLAND<br>1521 HANCOCK EXPY.<br>COLORADO SPRINGS, CO 80903<br>(719) 668-5557 |
| <b>PLANNING</b>    | EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT<br>KARI PARSONS, PROJECT MANAGER/PLANNER II<br>2880 INTERNATIONAL CIRCLE, SUITE 110<br>COLORADO SPRINGS, CO 80910<br>(719) 520-6300 | <b>GAS</b>       | COLORADO SPRINGS UTILITIES<br>TODD STURTEVANT<br>1521 HANCOCK EXPRESSWAY<br>COLORADO SPRINGS, CO 80947<br>(719) 668-3556     |
| <b>FIRE</b>        | SECURITY FIRE PROTECTION DISTRICT<br>DAVID GIRARDIN, FIRE CHIEF<br>400 SECURITY BLVD<br>COLORADO SPRINGS, CO 80911<br>(719) 392-7121  | <b>TELEPHONE</b> | CENTURY LINK<br>PATTY MOORE<br>(719) 636-6096<br>(LOCATORS) (719) 597-8418<br>AT&T<br>(LOCATORS) (719) 635-3674              |
| <b>WATER</b>       | SECURITY WATER & SANITATION DISTRICT<br>ROY HEALD, DISTRICT MANAGER<br>231 SECURITY BLVD<br>COLORADO SPRINGS, CO 80911<br>(719) 392-3475  | <b>CABLE</b>     | COMCAST<br>RICKEY NELSON<br>215 N. UNION BLVD<br>COLORADO SPRINGS, CO 80909<br>RICKEY_NELSON@CABLE.COMCAST.COM               |
| <b>WASTEWATER</b>  | SECURITY WATER & SANITATION DISTRICT<br>ROY HEALD, DISTRICT MANAGER<br>231 SECURITY BLVD<br>COLORADO SPRINGS, CO 80911<br>(719) 392-3475  |                  |  |

#### ESTIMATED COST OF TEMPORARY + PERMANENT BMPs INCLUDING INSTALLATION AND MAINTENANCE UNTIL FINAL STABILIZATION (FINAL + INTERIM STAGE)

| Description   | Quantity | Units | Unit Cost     | Total                  | (with Pre-Flat Construction) |                      |
|---|----------|-------|---------------|------------------------|------------------------------|----------------------|
|   |          |       |               |                        | % Complete                   | Remaining            |
| <b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>  |          |       |               |                        |                              |                      |
| Earthwork   |          |       |               |                        |                              |                      |
| less than 1,000; \$5,300 min  |          | CY    | \$ 8.00       | = \$ -                 |                              | \$ -                 |
| 1,000-5,000; \$8,000 min  |          | CY    | \$ 6.00       | = \$ -                 |                              | \$ -                 |
| 5,001-20,000; \$30,000 min  |          | CY    | \$ 5.00       | = \$ -                 |                              | \$ -                 |
| 20,001-50,000; \$100,000 min  | 48620    | CY    | \$ 3.50       | = \$ 170,170.00        |                              | \$ 170,170.00        |
| 50,001-200,000; \$175,000 min   |          | CY    | \$ 2.50       | = \$ -                 |                              | \$ -                 |
| greater than 200,000; \$500,000 min   |          | CY    | \$ 2.00       | = \$ -                 |                              | \$ -                 |
| Permanent Erosion Control Blanket   | 1978     | SY    | \$ 9.00       | = \$ 17,802.00         |                              | \$ 17,802.00         |
| Permanent Seeding (inc. noxious weed mgmt.) & Mulch   | 10.5     | AC    | \$ 2,018.00   | = \$ 21,189.00         |                              | \$ 21,189.00         |
| Permanent Pond/BMP (provide engineer's estimate)  | 1        | EA    | \$ 200,000.00 | = \$ 200,000.00        |                              | \$ 200,000.00        |
| Concrete Washout Basin  | 1        | EA    | \$ 1,172.00   | = \$ 1,172.00          |                              | \$ 1,172.00          |
| Inlet Protection  | 9        | EA    | \$ 217.00     | = \$ 1,953.00          |                              | \$ 1,953.00          |
| Rock Check Dam  | 21       | EA    | \$ 651.00     | = \$ 13,671.00         |                              | \$ 13,671.00         |
| Safety Fence  |          | LF    | \$ 3.00       | = \$ -                 |                              | \$ -                 |
| Sediment Basin  | 1        | EA    | \$ 2,294.00   | = \$ 2,294.00          |                              | \$ 2,294.00          |
| Sediment Trap   |          | EA    | \$ 538.00     | = \$ -                 |                              | \$ -                 |
| Silt Fence  | 615      | LF    | \$ 3.00       | = \$ 1,845.00          |                              | \$ 1,845.00          |
| Slope Drain   |          | LF    | \$ 43.00      | = \$ -                 |                              | \$ -                 |
| Straw Bale  |          | EA    | \$ 33.00      | = \$ -                 |                              | \$ -                 |
| Straw Wattle/Rock Sock  | 36       | LF    | \$ 8.00       | = \$ 288.00            |                              | \$ 288.00            |
| Surface Roughening  |          | AC    | \$ 269.00     | = \$ -                 |                              | \$ -                 |
| Temporary Erosion Control Blanket   |          | SY    | \$ 3.00       | = \$ -                 |                              | \$ -                 |
| Temporary Seeding and Mulching  |          | AC    | \$ 1,793.00   | = \$ -                 |                              | \$ -                 |
| Vehicle Tracking Control  | 1        | EA    | \$ 3,085.00   | = \$ 3,085.00          |                              | \$ 3,085.00          |
| [insert items not listed but part of construction plans]  |          |       |               | = \$ -                 |                              | \$ -                 |
|   |          |       |               | = \$ 8,097.60          |                              | \$ 8,097.60          |
| <b>MAINTENANCE (35% of Construction BMPs)</b>   |          |       |               |                        |                              |                      |
| * - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED) |          |       |               |                        |                              |                      |
| <b>Section 1 Subtotal</b>   |          |       |               | <b>= \$ 441,566.60</b> |                              | <b>\$ 441,566.60</b> |



VICINITY MAP  
NOT TO SCALE



#### SHEET INDEX

|      |  |
|------|--|
| ECCV | EROSION CONTROL COVER SHEET              |
| ECNT | NOTES                                    |
| EC01 | INITIAL GRADING AND EROSION CONTROL PLAN |
| EC02 | INTERIM GEC PLAN                         |
| EC03 | FINAL/VERTICAL GEC PLAN                  |
| ECDT | EROSION CONTROL DETAILS                  |
| ECDT | EROSION CONTROL DETAILS                  |
| PD01 | DETENTION POND DETAILS                   |
| PD02 | CONCRETE FOREBAY DETAILS                 |
| PD03 | POND OUTLET STRUCTURE DEETAILS           |

#### DESIGN ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

*Tim D. McConnell*  
TIM D. MCCONNELL DATE  
P.E.# 33797

#### OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN

JEFF MARK OWNER DATE

#### EL PASO COUNTY

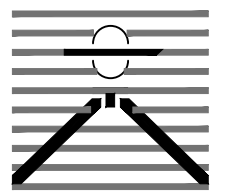
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

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

IN ACCORDANCE WITH EGM SECTION 112, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. COUNTY ENGINEER DATE

PREPARED BY:



DREXEL, BARRELL & CO.  
Engineers • Surveyors  
101 SAWATCH STREET, #100  
COLORADO SPGS, COLORADO 80903  
CONTACT: TIM D. MCCONNELL, P.E.  
(719)260-0887  
COLORADO SPRINGS • LAFAYETTE

CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069  
COLORADO SPRINGS, CO 80960  
CONTACT: ROBERT C. IRWIN  
(719) 475-7474

CONSTRUCTION DOCUMENTS FOR:  
**HAVEN VALLEY**  
(LETA DR.) BRADLEY RD/ALTURAS DR.  
SECURITY, EL PASO COUNTY, COLORADO

| ISSUE         | DATE    |
|---------------|---------|
| INITIAL ISSUE | 3/15/22 |
| LATEST ISSUE  | 6/10/24 |

|              |              |
|--------------|--------------|
| DESIGNED BY: | SBN          |
| DRAWN BY:    | SBN          |
| CHECKED BY:  | TDM          |
| FILE NAME:   | 21085-03ECCV |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
HORIZONTAL: N/A  
VERTICAL: N/A

EROSION CONTROL COVER SHEET

PROJECT NO. 21085-03CSCV  
DRAWING NO.

**ECCV**

SHEET: 43 OF 52

**STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS**

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
2. 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE REC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS, AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON, DATED AUGUST 5, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1)ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN(SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:  
  
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WOOD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

PREPARED BY:



**DREXEL, BARRELL & CO.**  
Engineers & Surveyors  
101 SAWATCH STREET, #100  
COLORADO SPGS, COLORADO 80903  
CONTACT: TIM D. MCCONNELL, P.E.  
(719)260-0887  
COLORADO SPRINGS • LAFAYETTE

CLIENT:

MIDCO INVESTMENTS, LLC  
  
P.O. BOX 60069  
COLORADO SPRINGS, CO 80960  
CONTACT: ROBERT C. IRWIN  
(719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

**HAVEN VALLEY**  
  
(LETA DR.) BRADLEY RD/ALTURAS DR.  
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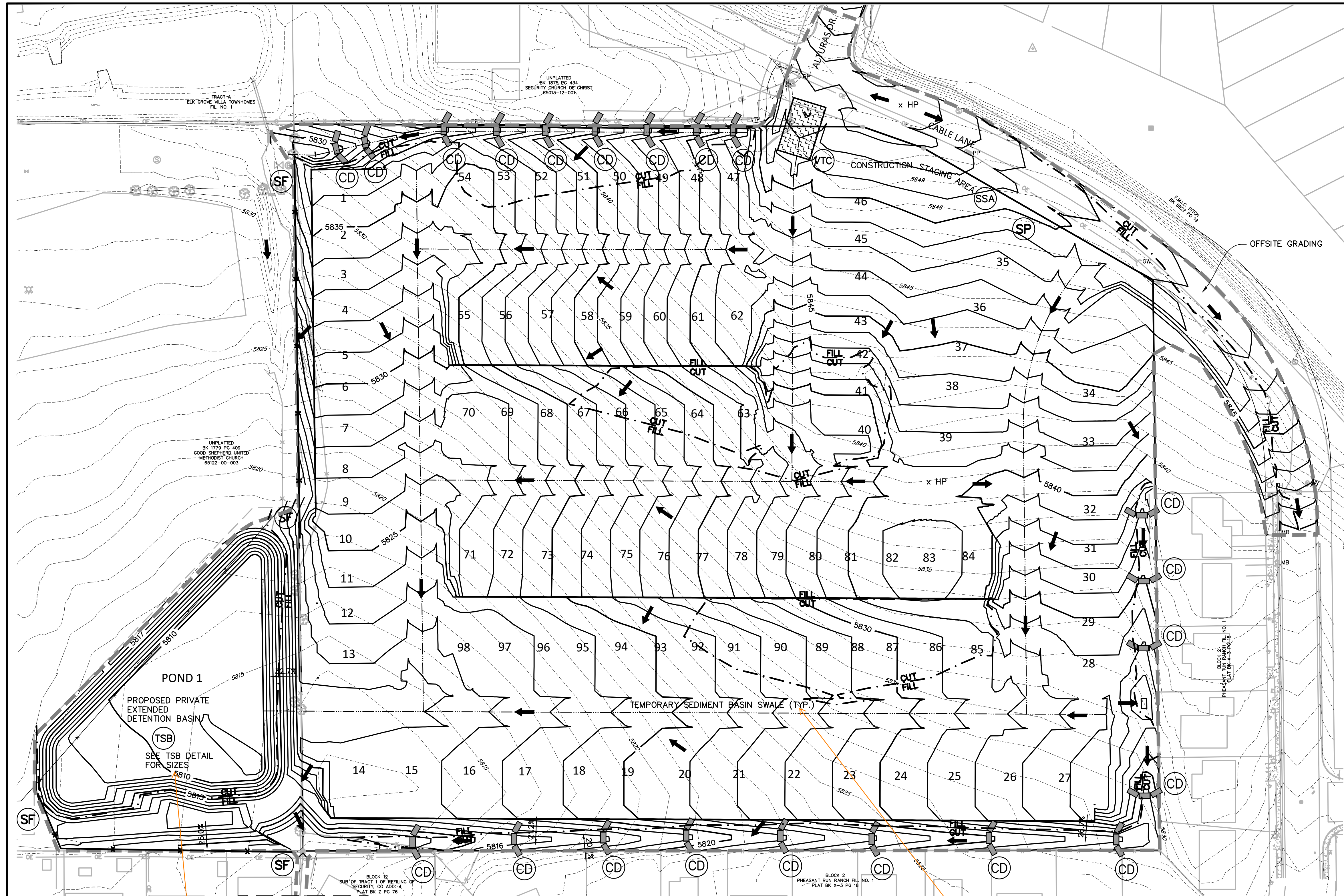
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| INITIAL ISSUE | 3/15/22      |
| LATEST ISSUE  | 6/10/24      |
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| DESIGNED BY:  | SBN          |
| DRAWN BY:     | SBN          |
| CHECKED BY:   | TDM          |
| FILE NAME:    | 21085-03ECVV |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
  
DRAWING SCALE:  
HORIZONTAL: N/A  
VERTICAL: N/A

**EROSION CONTROL NOTES**

PROJECT NO. 21085-03CSCV  
DRAWING NO.





- NOTES:**
- REFER TO LANDSCAPING PLANS FOR ONSITE VEGETATION
  - REFER TO SWMP FOR NON-STRUCTURAL CONTROL MEASURES.
  - ALL DISTURBED AREAS SHALL BE SEEDED WITHIN 30 DAYS OF DISTURBANCE.
  - ALL AREAS TO BE VEGETATED WITH PERMANENT SEEDING SHOULD ALSO BE TEMPORARILY STABILIZED VIA TRACK ROLLING OR SOME APPROVED MEANS.

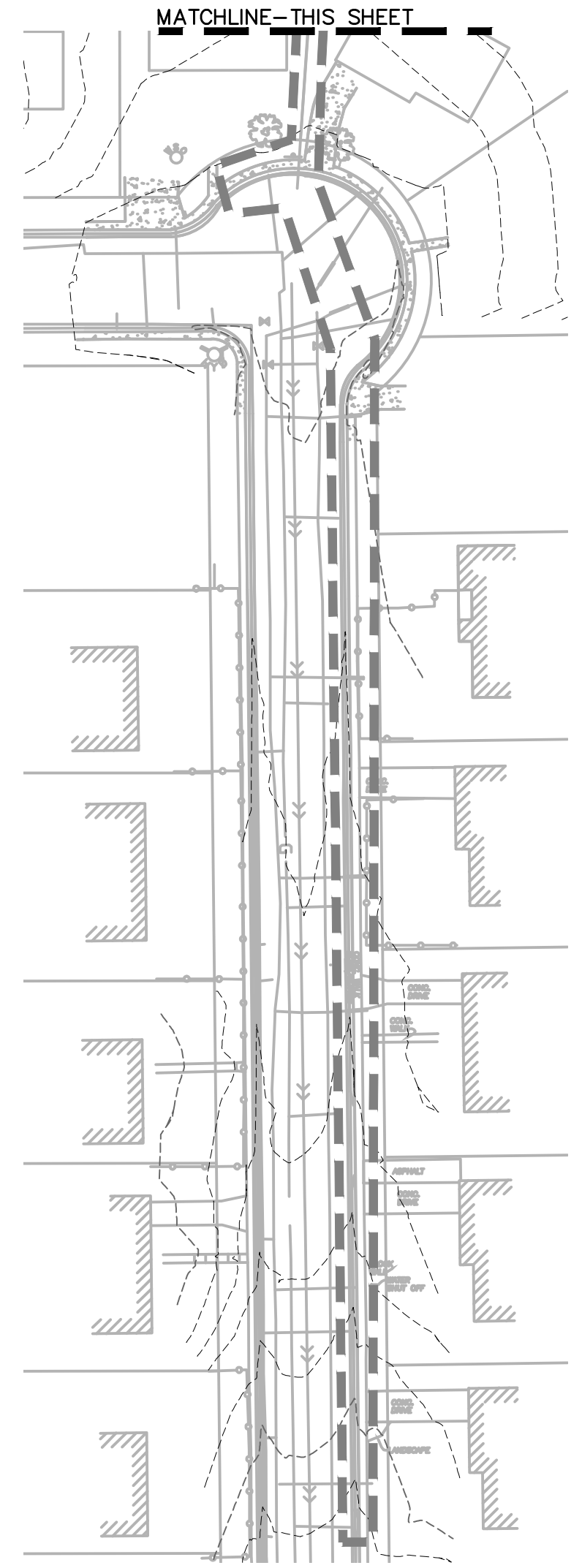
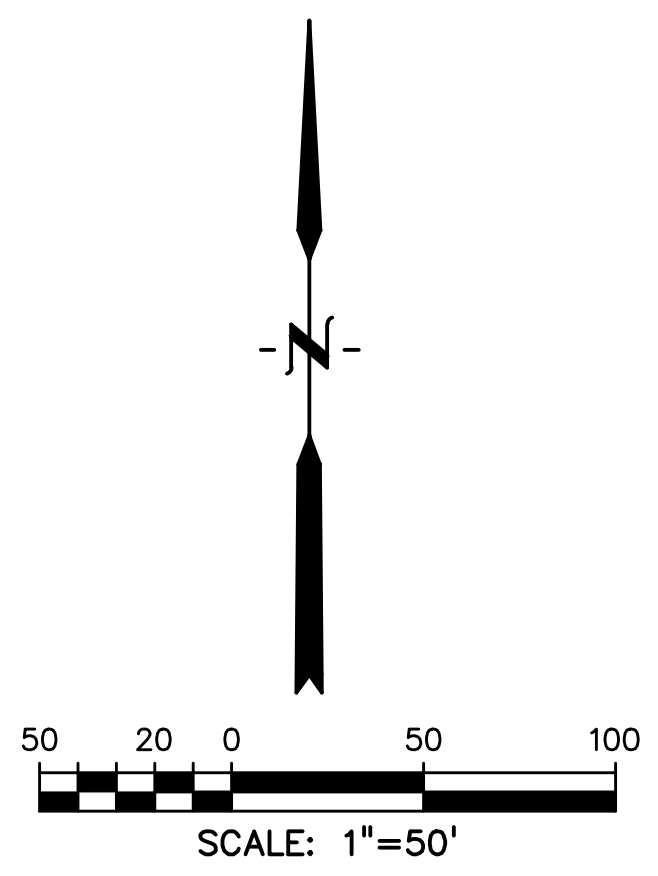
I see that you highlighted the applicable row on the TSB detail table for this TSB. However, this site warrants more detail given it's unique outfall. Please show/clarify where the outlet pipe and spillway will be located. Where will the outlet pipe outfall to? If the spillway is to overflow between the two houses, what will the interim condition be to protect the houses from flooding on either side of the spillway? Sand bags? Rock socks?

- LEGEND**
- PROPOSED INTERMEDIATE CONTOUR . . . . . 5522
  - PROPOSED INDEX CONTOUR . . . . . 5520
  - EX. INTERMEDIATE CONTOUR . . . . . 5364
  - EX. INDEX CONTOUR . . . . . 5365
  - DIRECTION OF FLOW . . . . .
  - HIGH POINT . . . . . HP
  - LOW POINT . . . . . LP
  - PROPOSED INLET . . . . .
  - PROPOSED MANHOLE . . . . .
  - PROPERTY BOUNDARY . . . . .
  - LIMIT OF CONSTRUCTION/DISTURBANCE . . . . .

- INLET PROTECTION . . . . . IP
- ROCK SOCKS . . . . . RS
- CONCRETE WASHOUT AREA . . . . . CWA
- SILT FENCE . . . . . SF
- TEMPORARY SEDIMENT BASIN . . . . . TSB
- CHECK DAM . . . . . CD
- STOCKPILE PROTECTION . . . . . SP
- STABILIZED STAGING AREA . . . . . SSA

- VEHICLE TRACKING CONTROL . . . . . VTC
- EROSION CONTROL BLANKET . . . . . ECB
- SEEDING/MULCHING . . . . . SM

Provide a detail for this temp swale. MHFD's typical detail would be fine.



PREPARED BY:

**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
 101 SAWATCH STREET, #100  
 COLORADO SPGS, COLORADO 80903  
 CONTACT: TIM D. MCCONNELL, P.E.  
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CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069  
 COLORADO SPRINGS, CO 80960  
 CONTACT: ROBERT C. IRWIN  
 (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

**HAVEN VALLEY**  
 (LETA DR.) BRADLEY RD/ALTURAS DR.  
 SECURITY, EL PASO COUNTY, COLORADO

| ISSUE         | DATE    |
|---------------|---------|
| INITIAL ISSUE | 3/15/22 |
| LATEST ISSUE  | 6/10/24 |

|              |              |
|--------------|--------------|
| DESIGNED BY: | TDM          |
| DRAWN BY:    | SBN          |
| CHECKED BY:  | TDM          |
| FILE NAME:   | 21085-03EC01 |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1" = 50'  
 VERTICAL: N/A

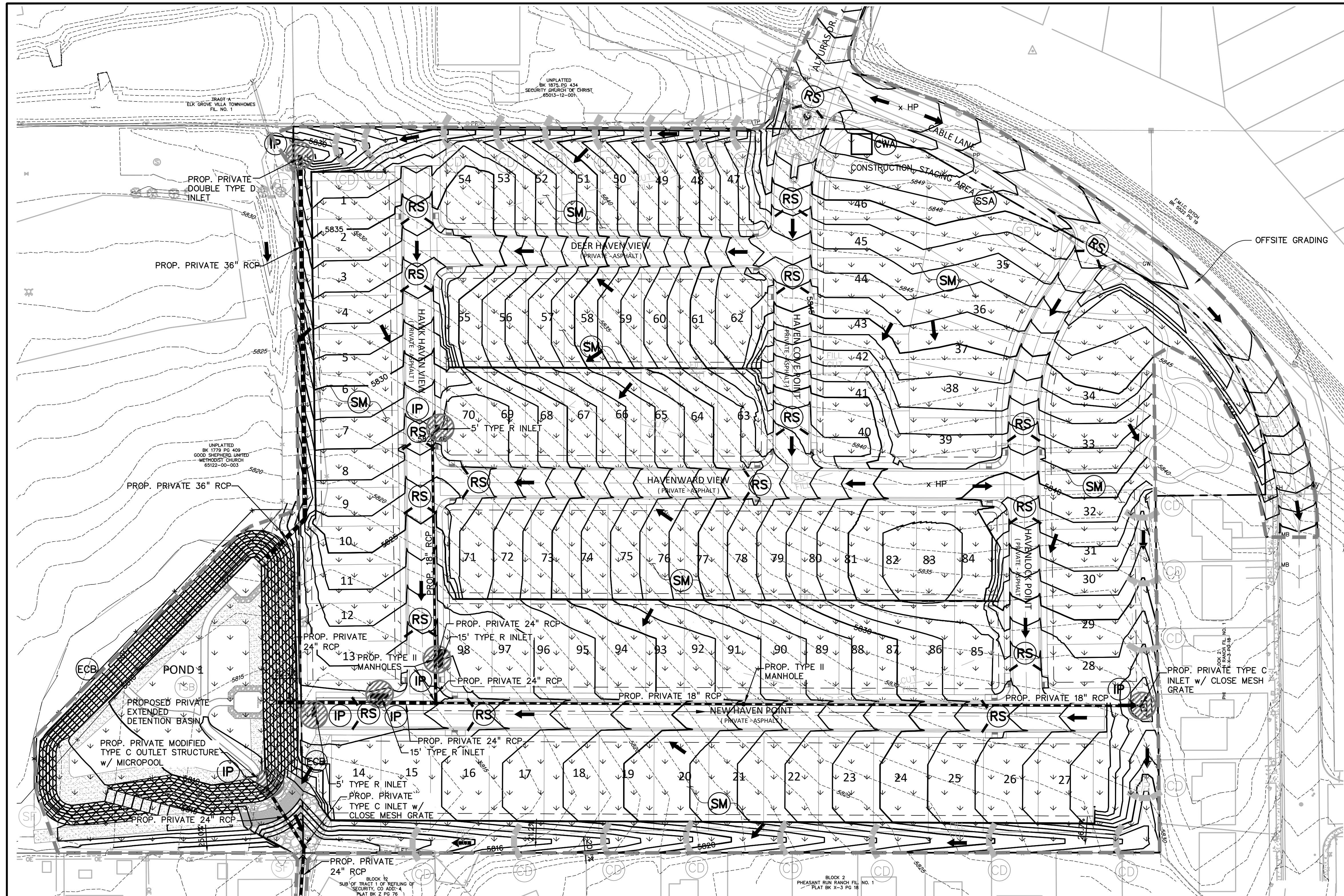
**INITIAL GRADING AND EROSION CONTROL PLAN**

PROJECT NO. 21085-03CSCV  
 DRAWING NO.

**EC01**

SHEET: 45 OF 52

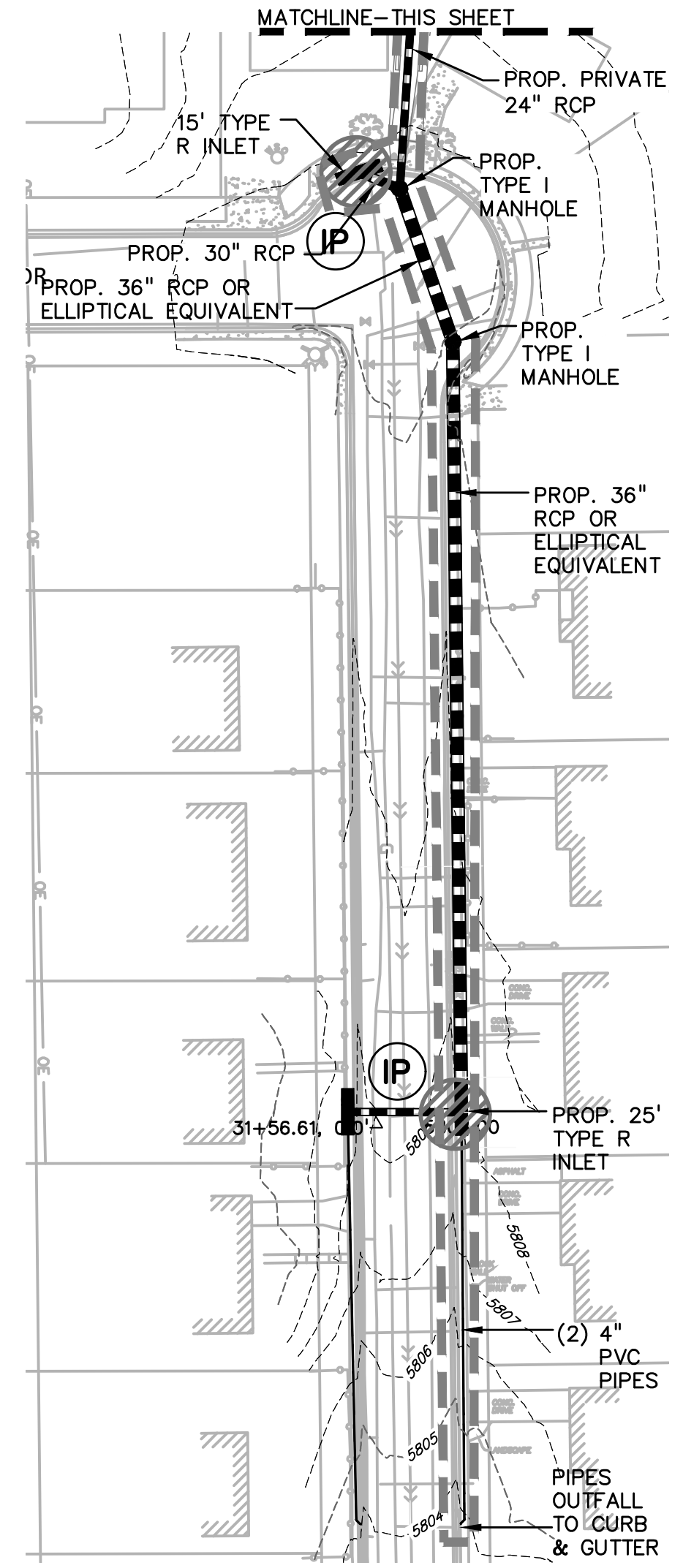
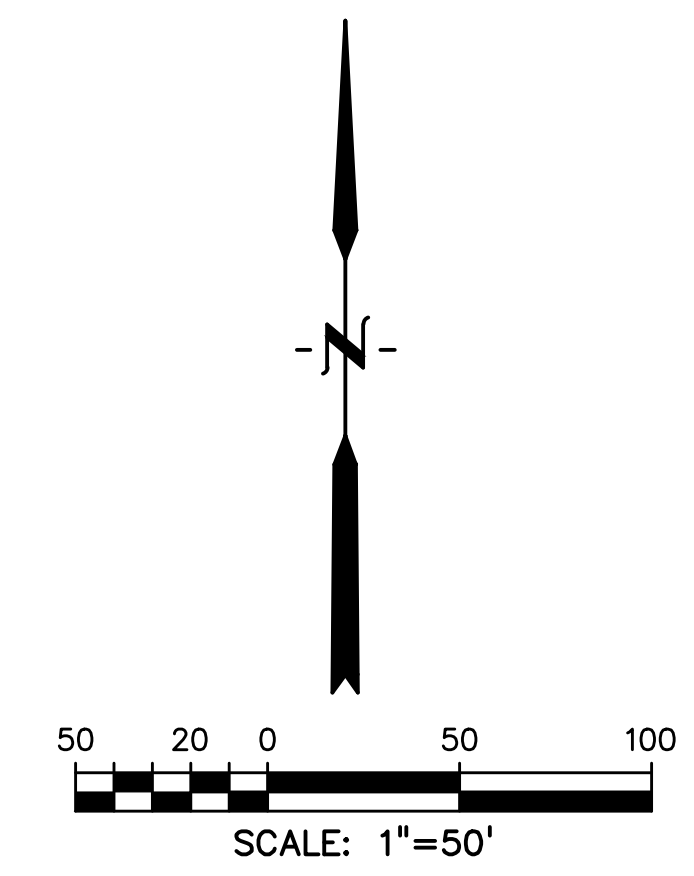
**811** Know what's below. Call before you dig.  
 CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



- NOTES:**
- REFER TO LANDSCAPING PLANS FOR ONSITE VEGETATION
  - REFER TO SWMP FOR NON-STRUCTURAL CONTROL MEASURES.
  - ALL DISTURBED AREAS SHALL BE SEEDED WITHIN 30 DAYS OF DISTURBANCE.
  - ALL AREAS TO BE VEGETATED WITH PERMANENT SEEDING SHOULD ALSO BE TEMPORARILY STABILIZED VIA TRACK ROLLING OR SOME OTHER APPROVED MEANS.

- LEGEND**
- PROPOSED INTERMEDIATE CONTOUR . . . . . 5522
  - PROPOSED INDEX CONTOUR . . . . . 5520
  - EX. INTERMEDIATE CONTOUR . . . . . 5364
  - EX. INDEX CONTOUR . . . . . 5365
  - DIRECTION OF FLOW . . . . .
  - HIGH POINT . . . . . HP
  - LOW POINT . . . . . LP
  - PROPOSED INLET . . . . .
  - PROPOSED MANHOLE . . . . .
  - PROPERTY BOUNDARY . . . . .
  - LIMIT OF CONSTRUCTION/DISTURBANCE . . . . .

- INLET PROTECTION . . . . . IP
- ROCK SOCKS . . . . . RS
- CONCRETE WASHOUT AREA . . . . . CWA
- SILT FENCE . . . . . SF
- TEMPORARY SEDIMENT BASIN . . . . . TSB
- CHECK DAM . . . . . CD
- STOCKPILE PROTECTION . . . . . SP
- STABILIZED STAGING AREA . . . . . SSA
- VEHICLE TRACKING CONTROL . . . . . VTC
- EROSION CONTROL BLANKET . . . . . ECB
- SEEDING/MULCHING . . . . . SM



PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
 101 SAWATCH STREET, #100  
 COLORADO SPGS, COLORADO 80903  
 CONTACT: TIM D. MCCONNELL, P.E.  
 (719)260-0887  
 COLORADO SPRINGS • LAFAYETTE

CLIENT:  
 MIDCO INVESTMENTS, LLC  
 P.O. BOX 60069  
 COLORADO SPRINGS, CO 80960  
 CONTACT: ROBERT C. IRWIN  
 (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:  
**HAVEN VALLEY**  
 (LETA DR.) BRADLEY RD/ALTURAS DR.  
 SECURITY, EL PASO COUNTY, COLORADO

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|               |              |
|               |              |
| DESIGNED BY:  | TDM          |
| DRAWN BY:     | GES          |
| CHECKED BY:   | TDM          |
| FILE NAME:    | 21085-03EC02 |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1" = 50'  
 VERTICAL: N/A

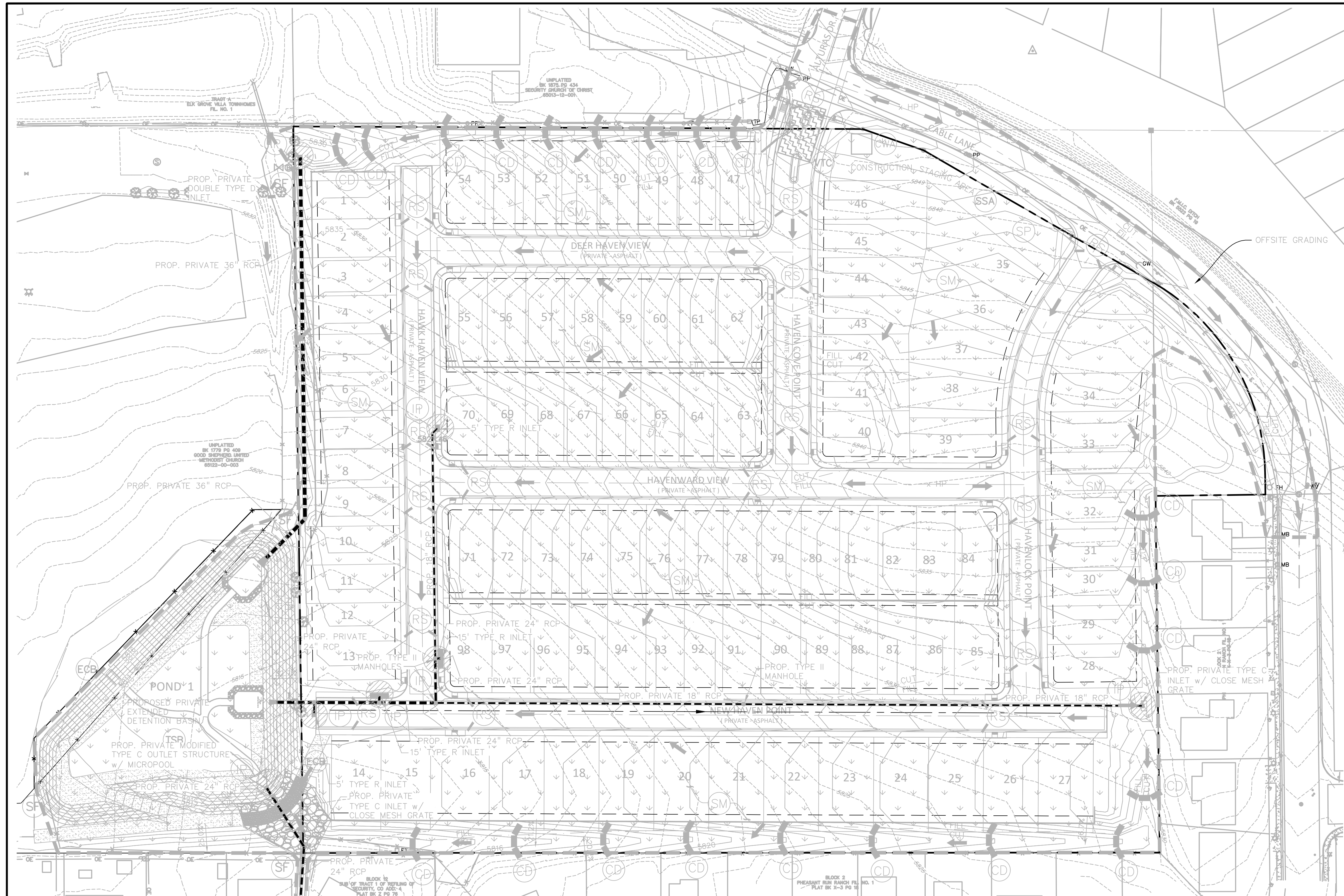
**INTERIM GEC PLAN**

PROJECT NO. 21085-03CSCV  
 DRAWING NO.

**EC02**

SHEET: 46 OF 52

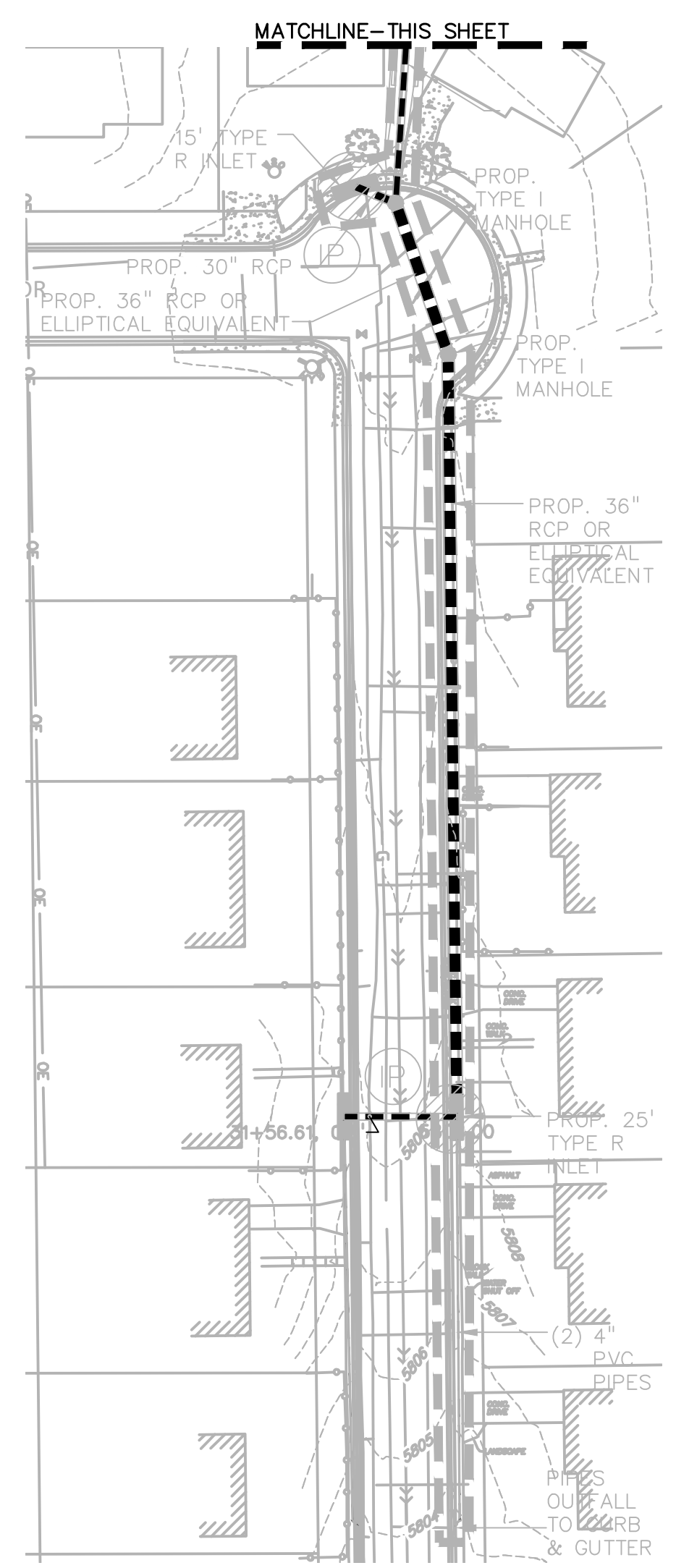
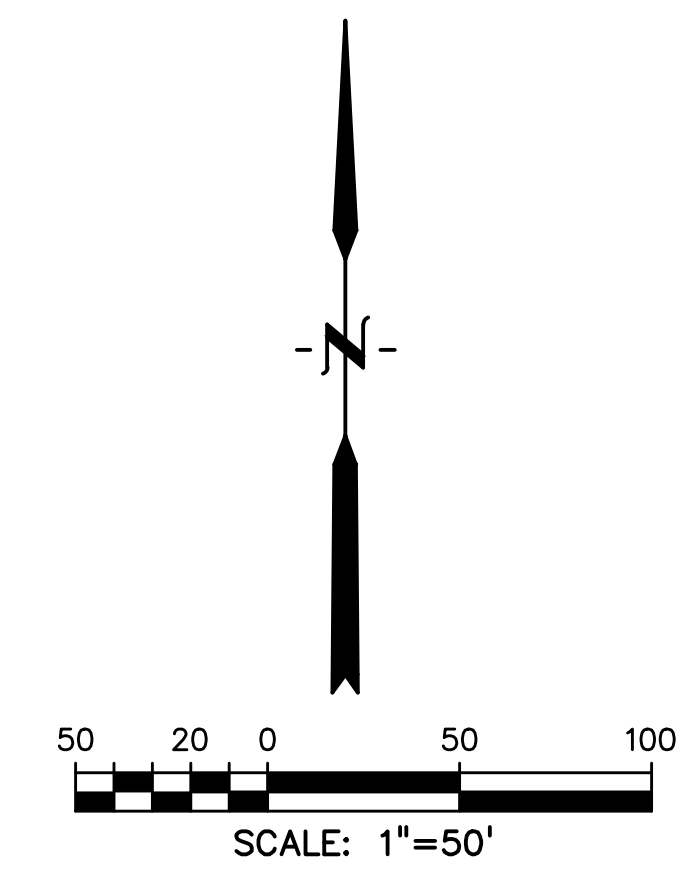




- NOTES:**
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  - PROPOSED INDEX CONTOUR . . . . . 5520
  - EX. INTERMEDIATE CONTOUR . . . . . 5364
  - EX. INDEX CONTOUR . . . . . 5365
  - DIRECTION OF FLOW . . . . .
  - HIGH POINT . . . . . HP
  - LOW POINT . . . . . LP
  - PROPOSED INLET . . . . .
  - PROPOSED MANHOLE . . . . .
  - PROPERTY BOUNDARY . . . . .
  - LIMIT OF CONSTRUCTION/DISTURBANCE . . . . .

- INLET PROTECTION . . . . . IP
- ROCK SOCKS . . . . . RS
- CONCRETE WASHOUT AREA . . . . . CWA
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- CHECK DAM . . . . . CD
- STOCKPILE PROTECTION . . . . . SP
- STABILIZED STAGING AREA . . . . . SSA
- VEHICLE TRACKING CONTROL . . . . . VTC
- EROSION CONTROL BLANKET . . . . . ECB
- SEEDING/MULCHING . . . . . SM



PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
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 101 SAWATCH STREET, #100  
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CONSTRUCTION DOCUMENTS FOR:  

# HAVEN VALLEY

  
 (LETA DR.) BRADLEY RD/ALTURAS DR.  
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|---------------|--------------|
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|               |              |
|               |              |
|               |              |
| DESIGNED BY:  | TDM          |
| DRAWN BY:     | SBN          |
| CHECKED BY:   | TDM          |
| FILE NAME:    | 21085-03EC03 |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1" = 50'  
 VERTICAL: N/A

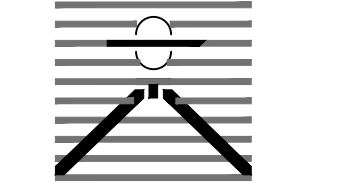
**FINAL/VERTICAL GEC PLAN**

PROJECT NO. 21085-03CSCV  
 DRAWING NO.

**EC03**



PREPARED BY:



**DREXEL, BARRELL & CO.**  
Engineers • Surveyors  
101 SAWATCH STREET, #100  
COLORADO SPRGS, COLORADO 80903  
CONTACT: TIM D. MCCONNELL, P.E.  
(719) 260-0887  
COLORADO SPRINGS • LAFAYETTE

CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069  
COLORADO SPRINGS, CO 80960  
CONTACT: ROBERT C. IRWIN  
(719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

**HAVEN VALLEY**  
(LETA DR.) BRADLEY RD/ALTURAS DR.  
SECURITY, EL PASO COUNTY, COLORADO

| ISSUE         | DATE    |
|---------------|---------|
| INITIAL ISSUE | 3/15/22 |
| LATEST ISSUE  | 6/10/24 |

DESIGNED BY: SBN  
DRAWN BY: SBN  
CHECKED BY: TDM  
FILE NAME: 21085-03ECDT

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

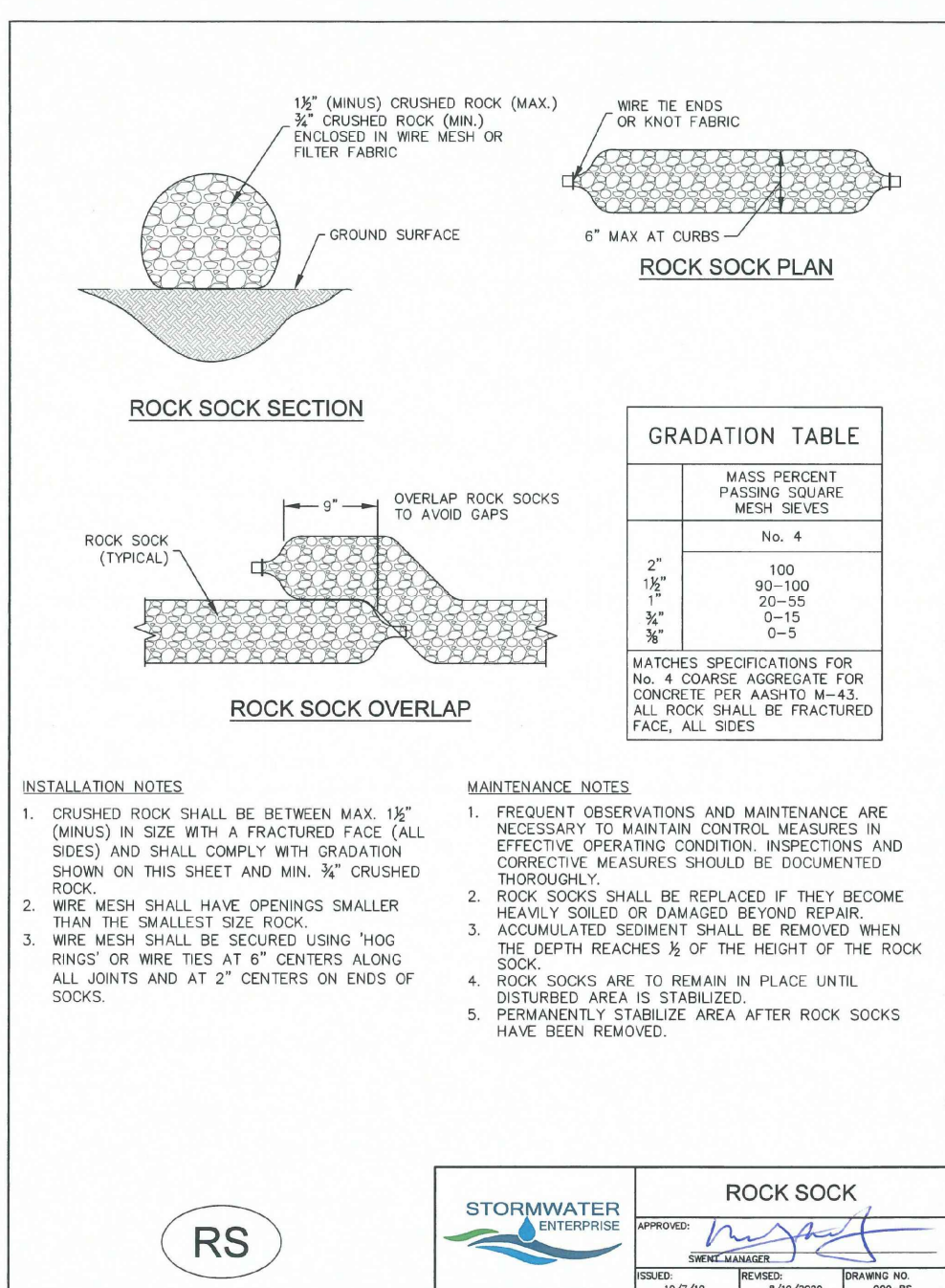
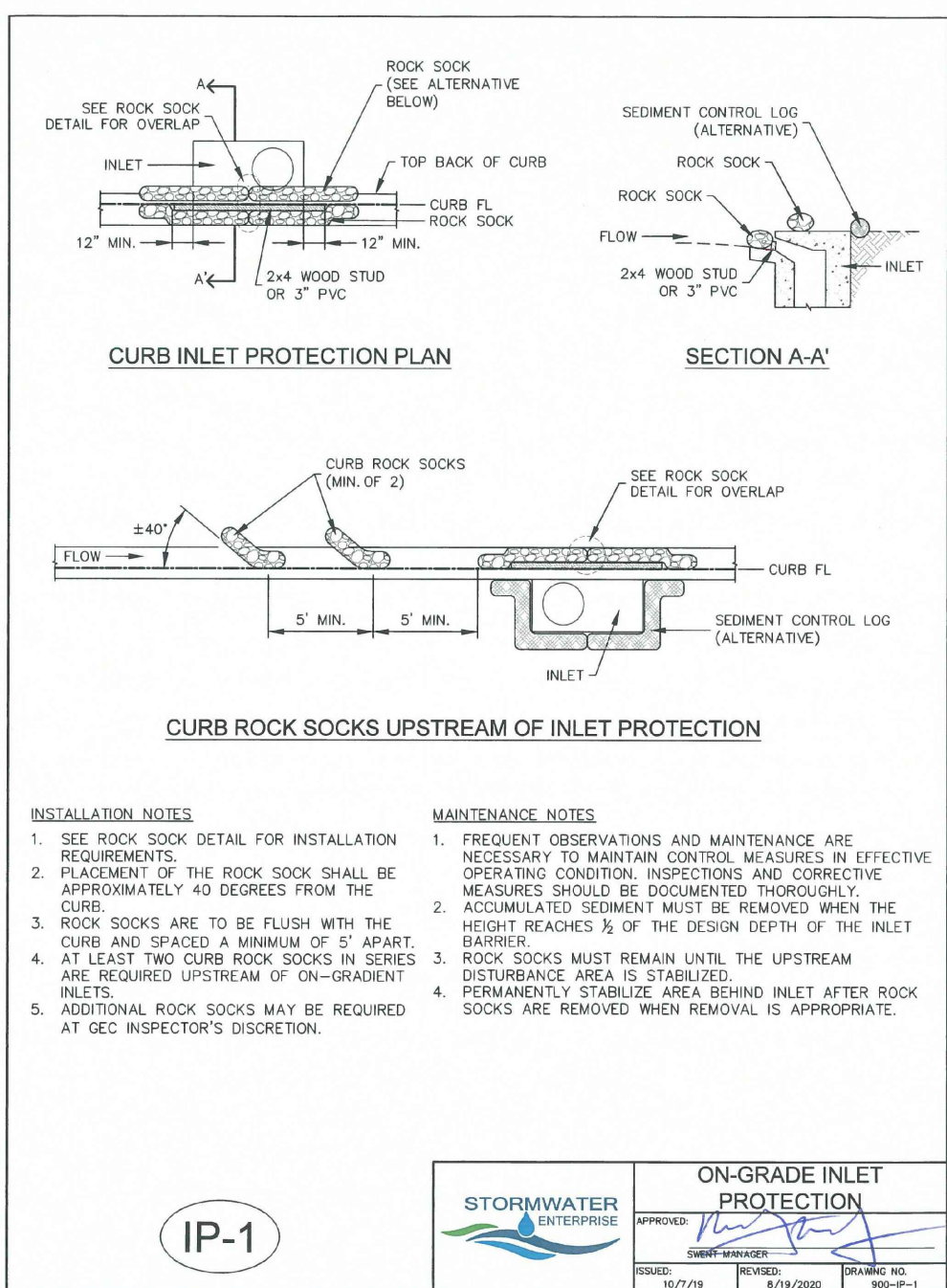
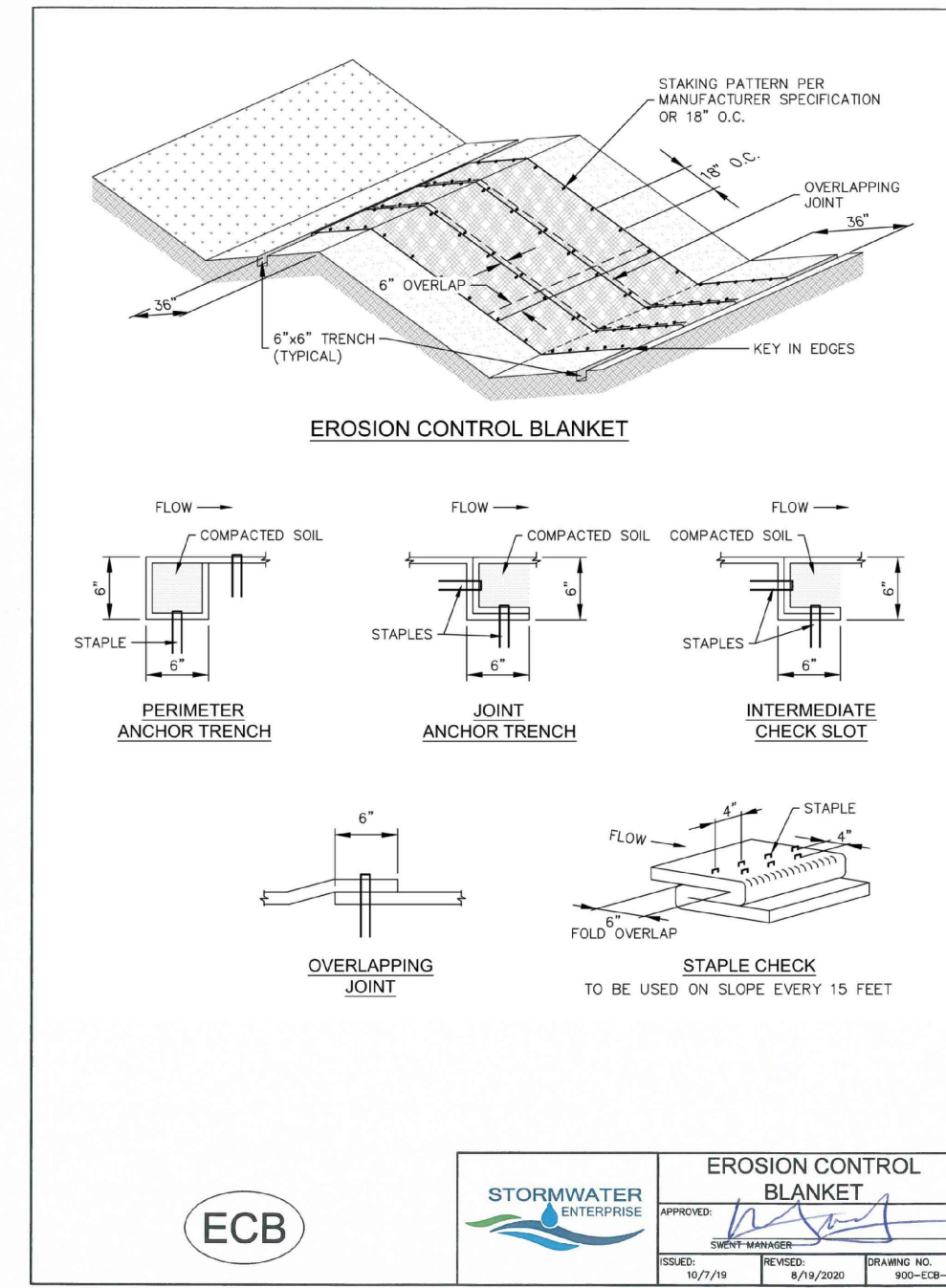
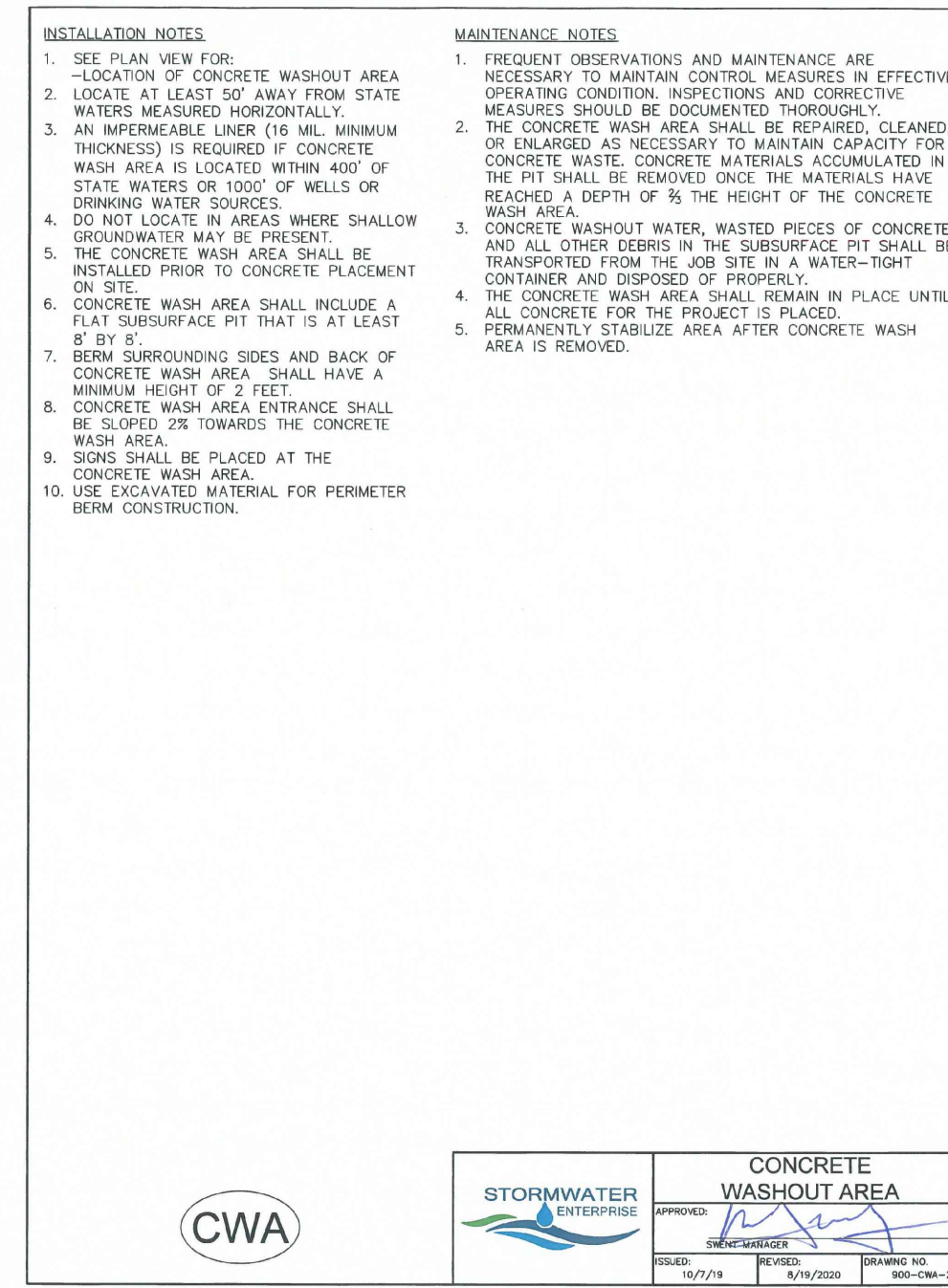
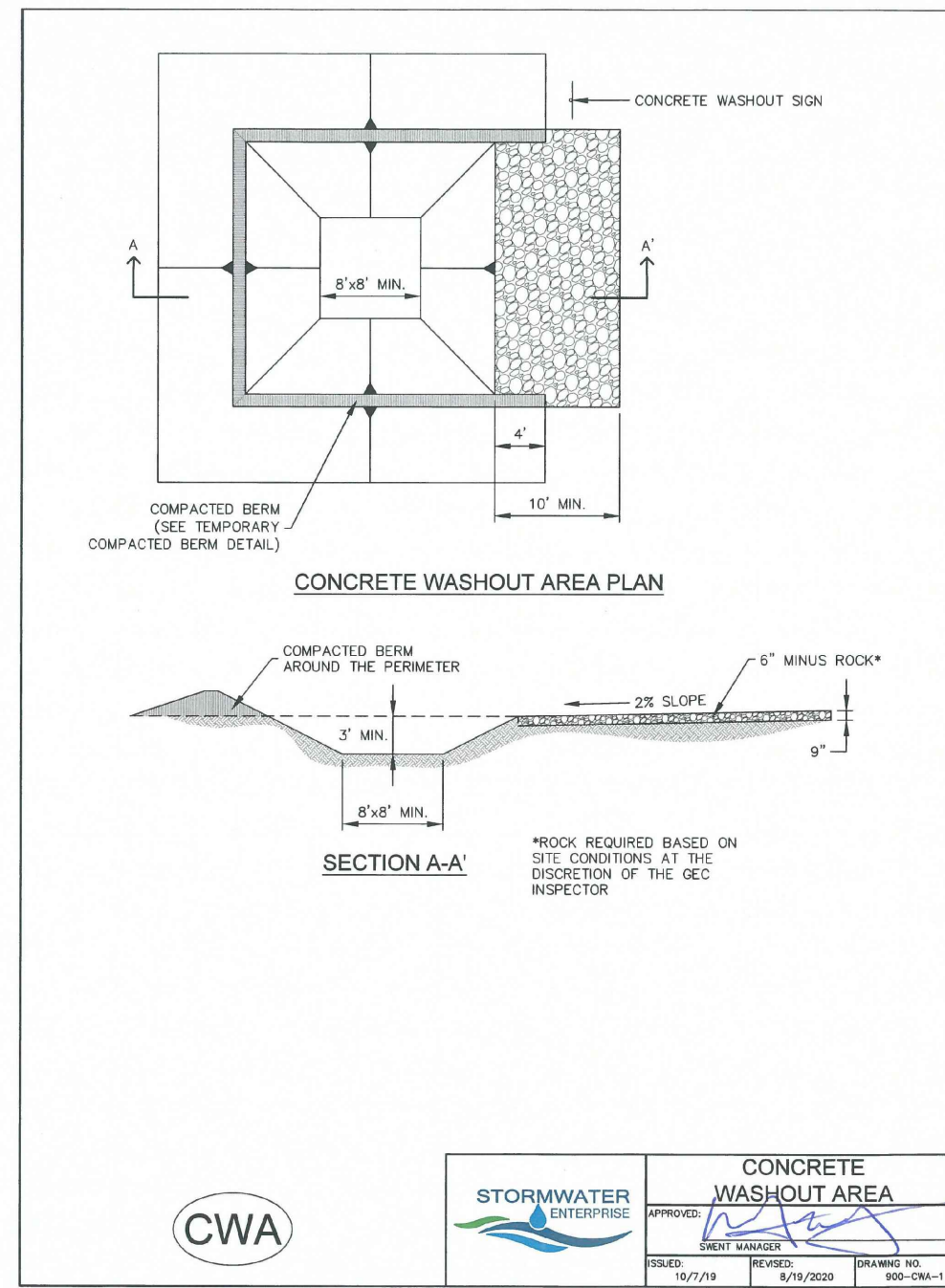
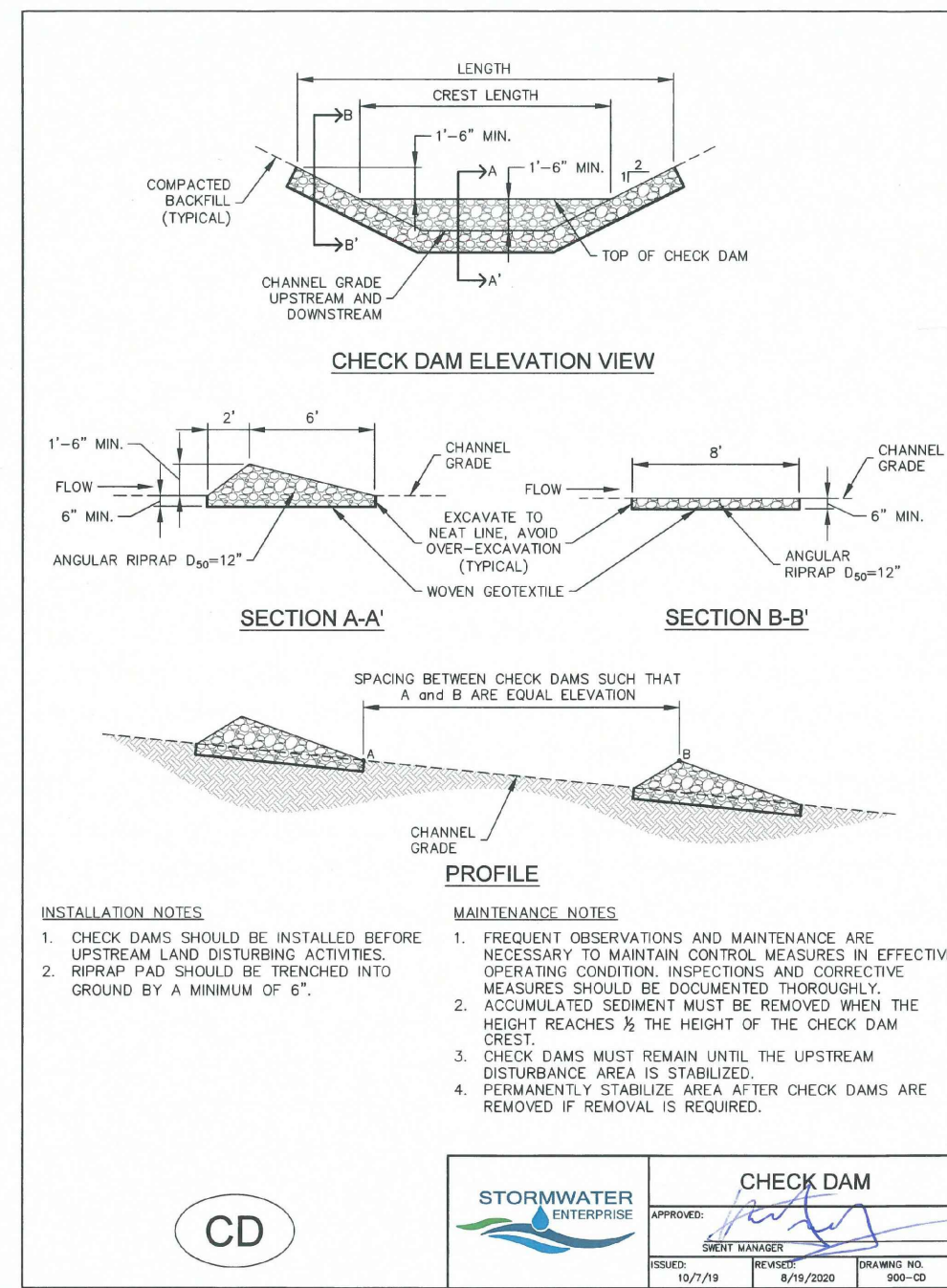
DRAWING SCALE:  
HORIZONTAL: N/A  
VERTICAL: N/A

**EROSION CONTROL DETAILS**

PROJECT NO. 21085-03CSCV  
DRAWING NO.

**ECDT**

SHEET: 48 OF 52



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.

PREPARED BY:

**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
 101 SAWATCH STREET, #100  
 COLORADO SPGS, COLORADO 80903  
 CONTACT: TIM D. MCCONNELL, P.E.  
 (719) 260-0887  
 COLORADO SPRINGS • LAFAYETTE

CLIENT:

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DESIGNED BY: SBN  
 DRAWN BY: SBN  
 CHECKED BY: TDM  
 FILE NAME: 21085-03ECOT

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

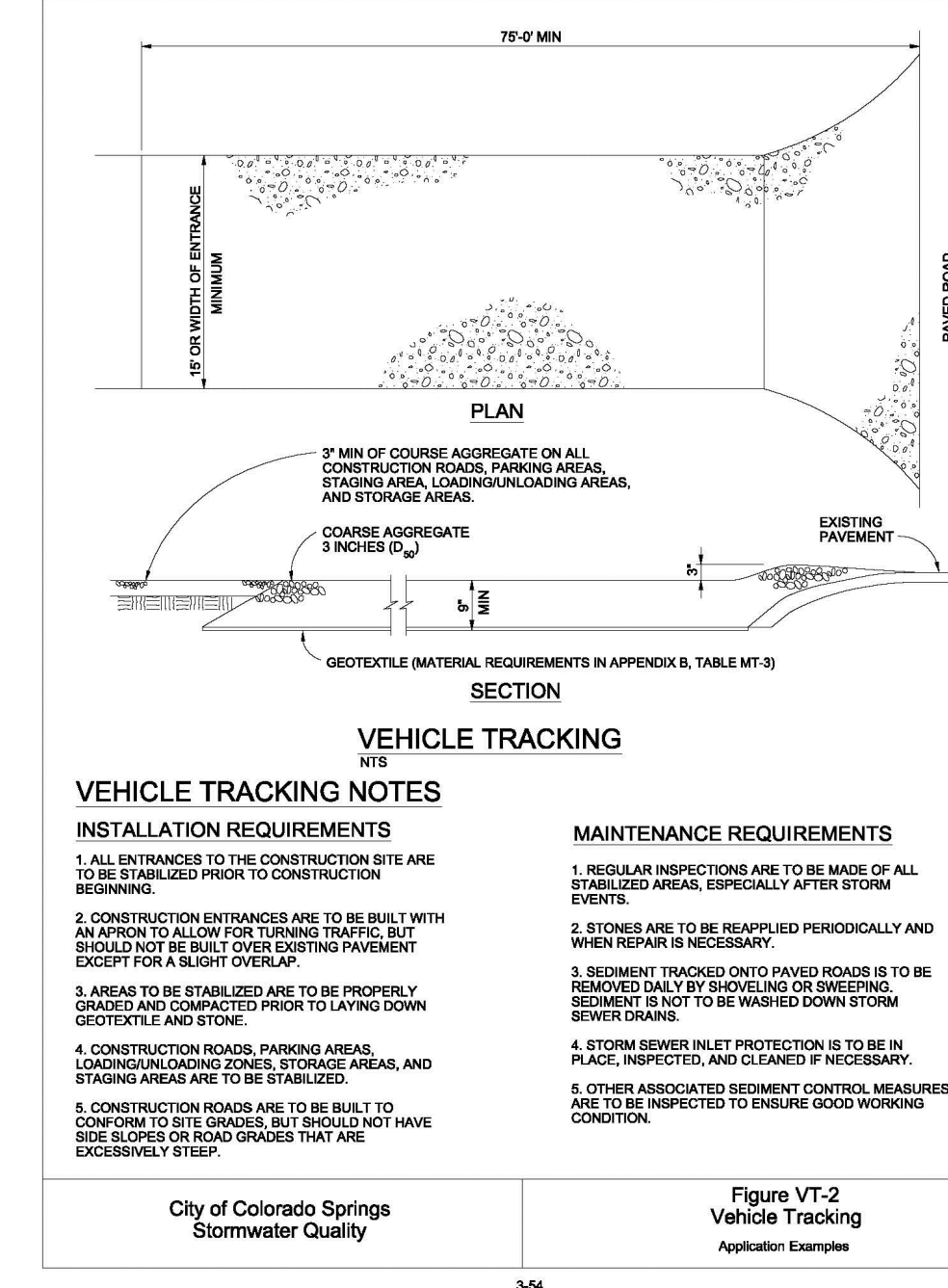
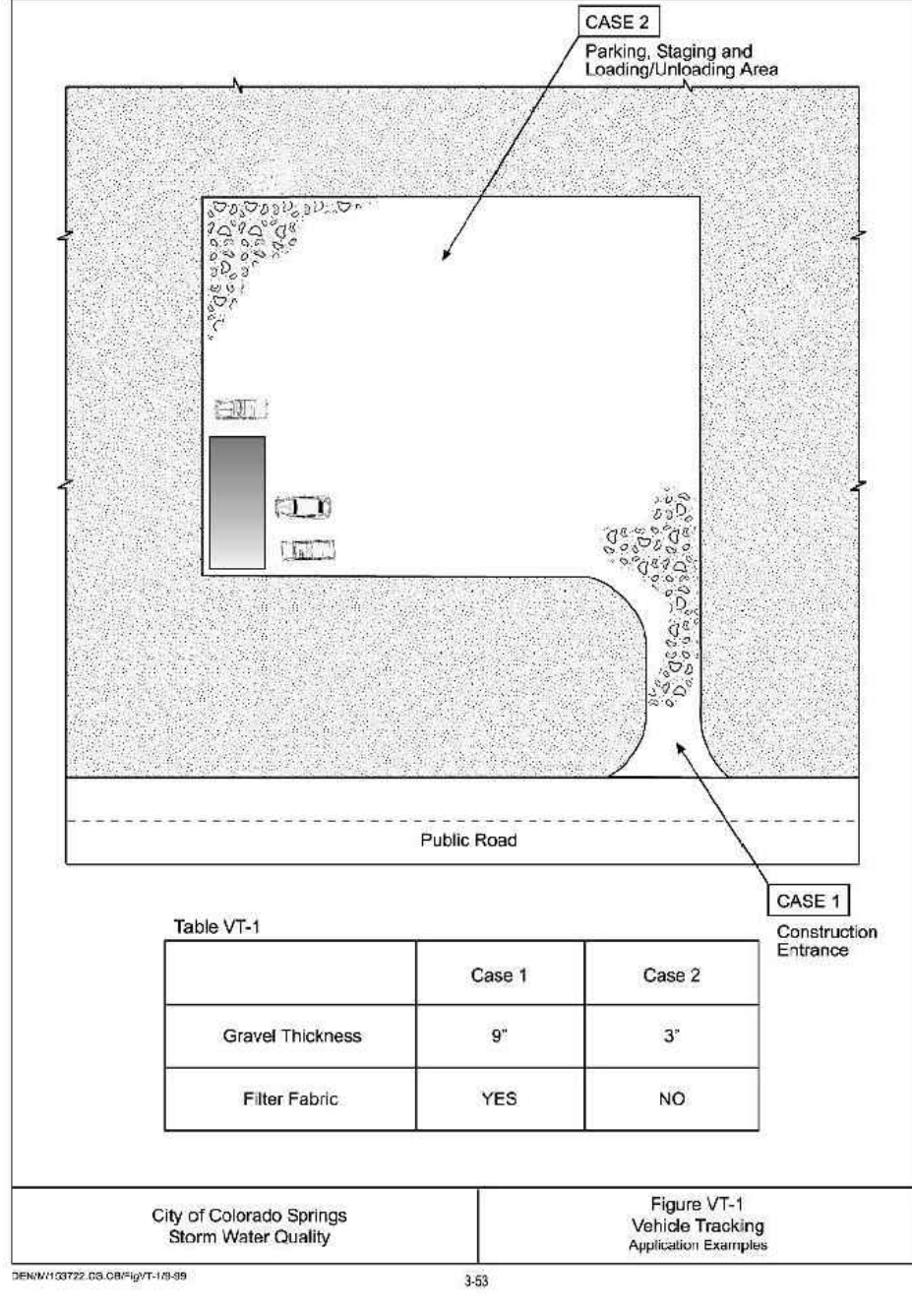
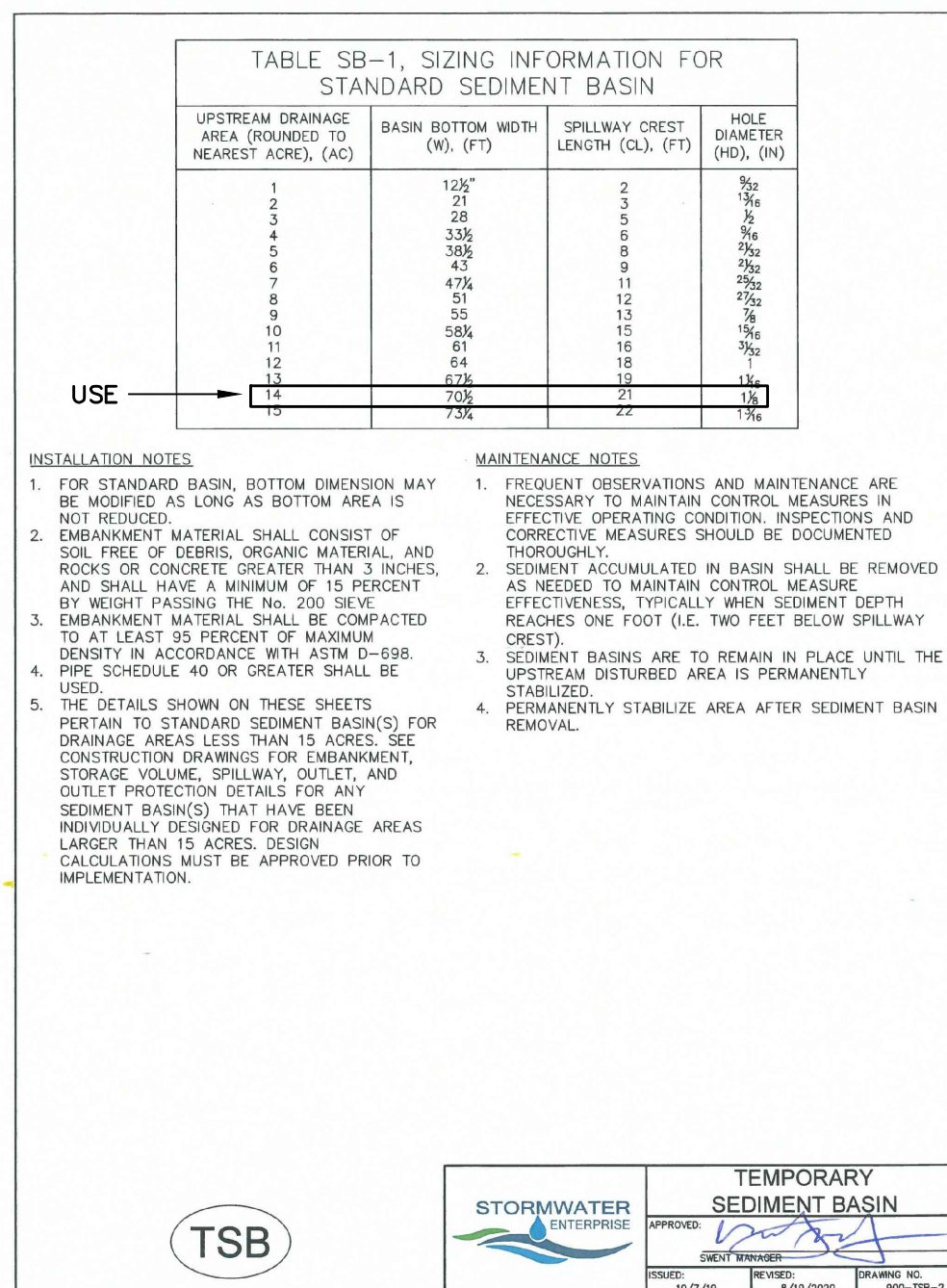
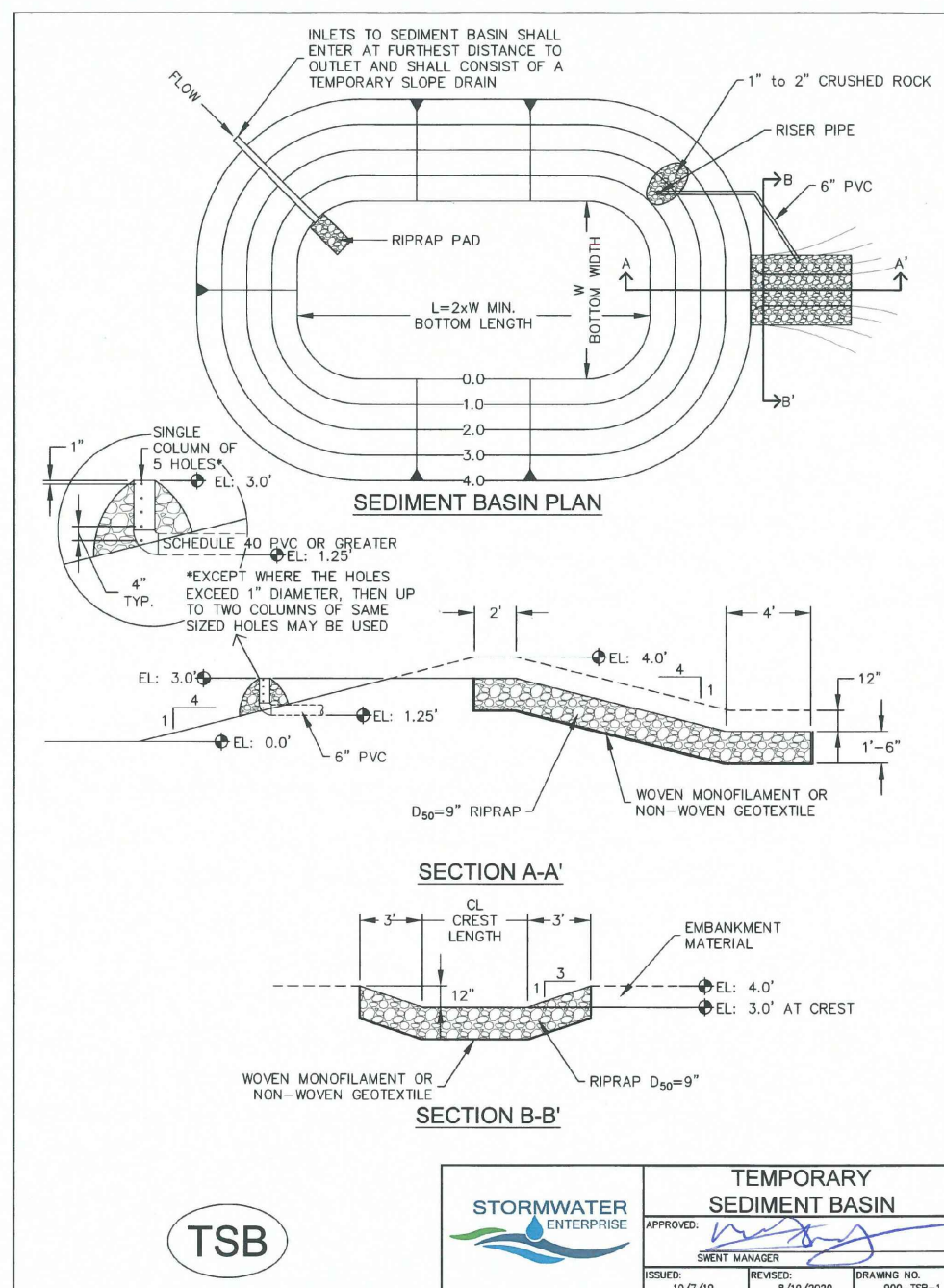
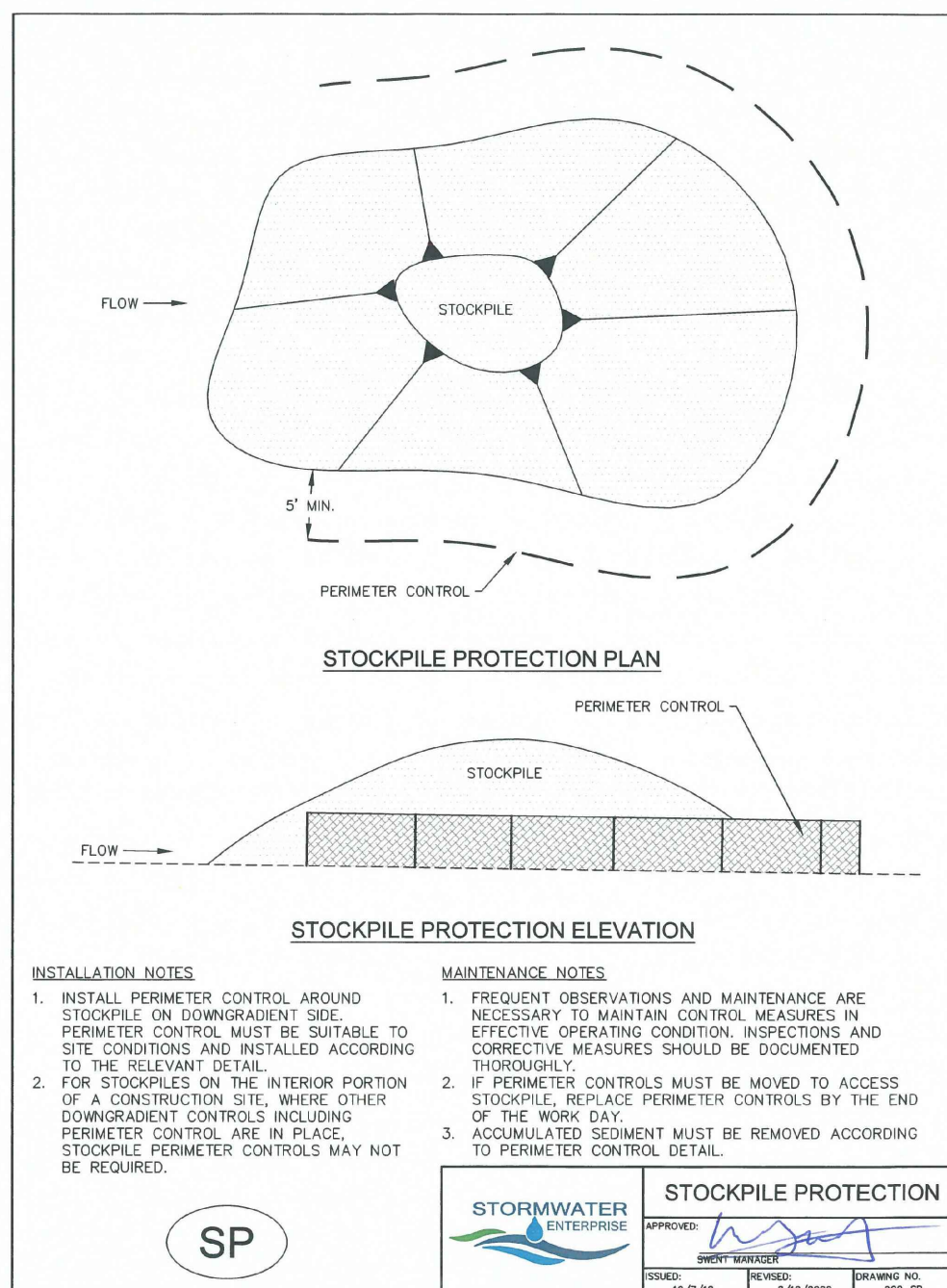
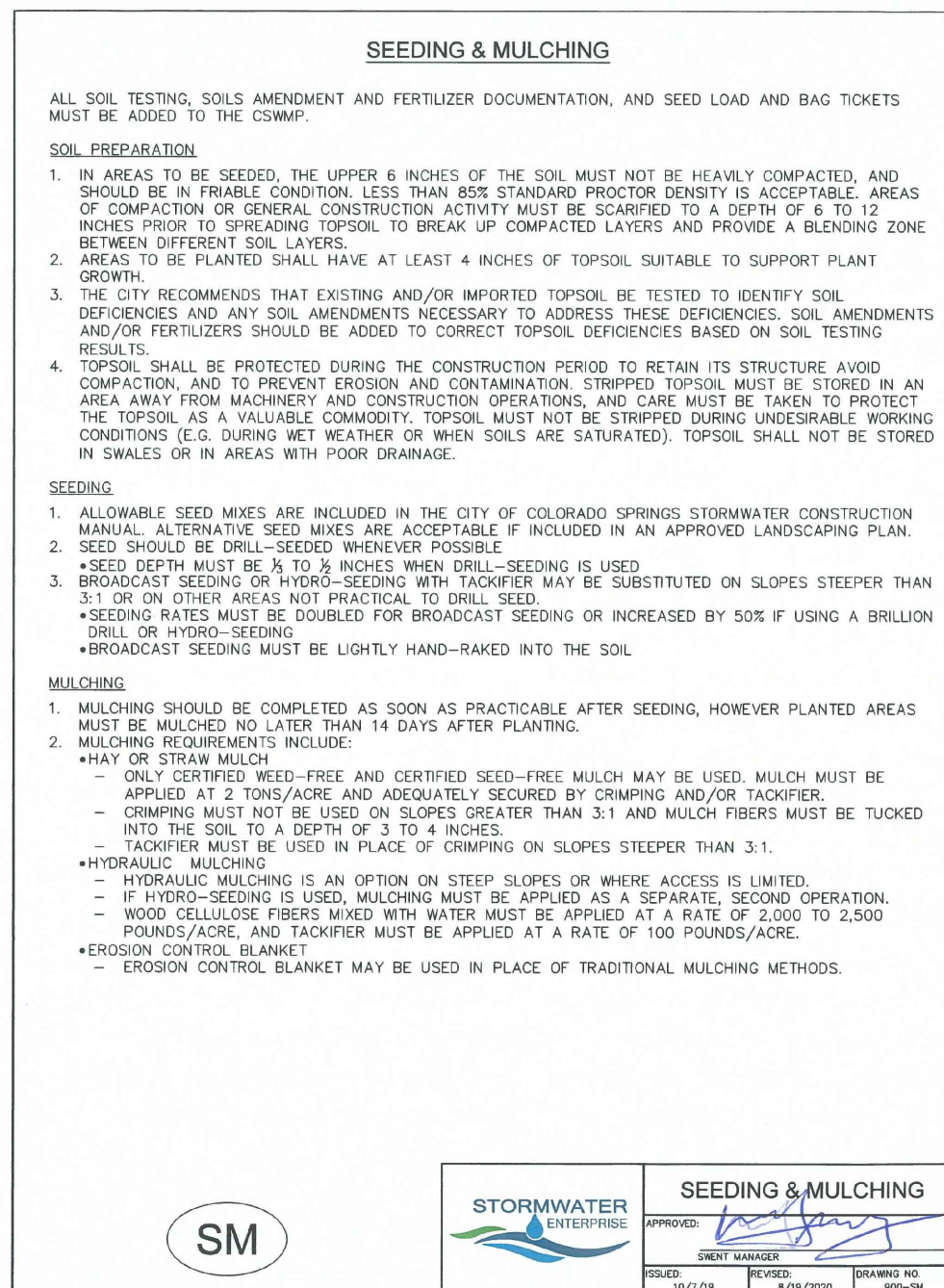
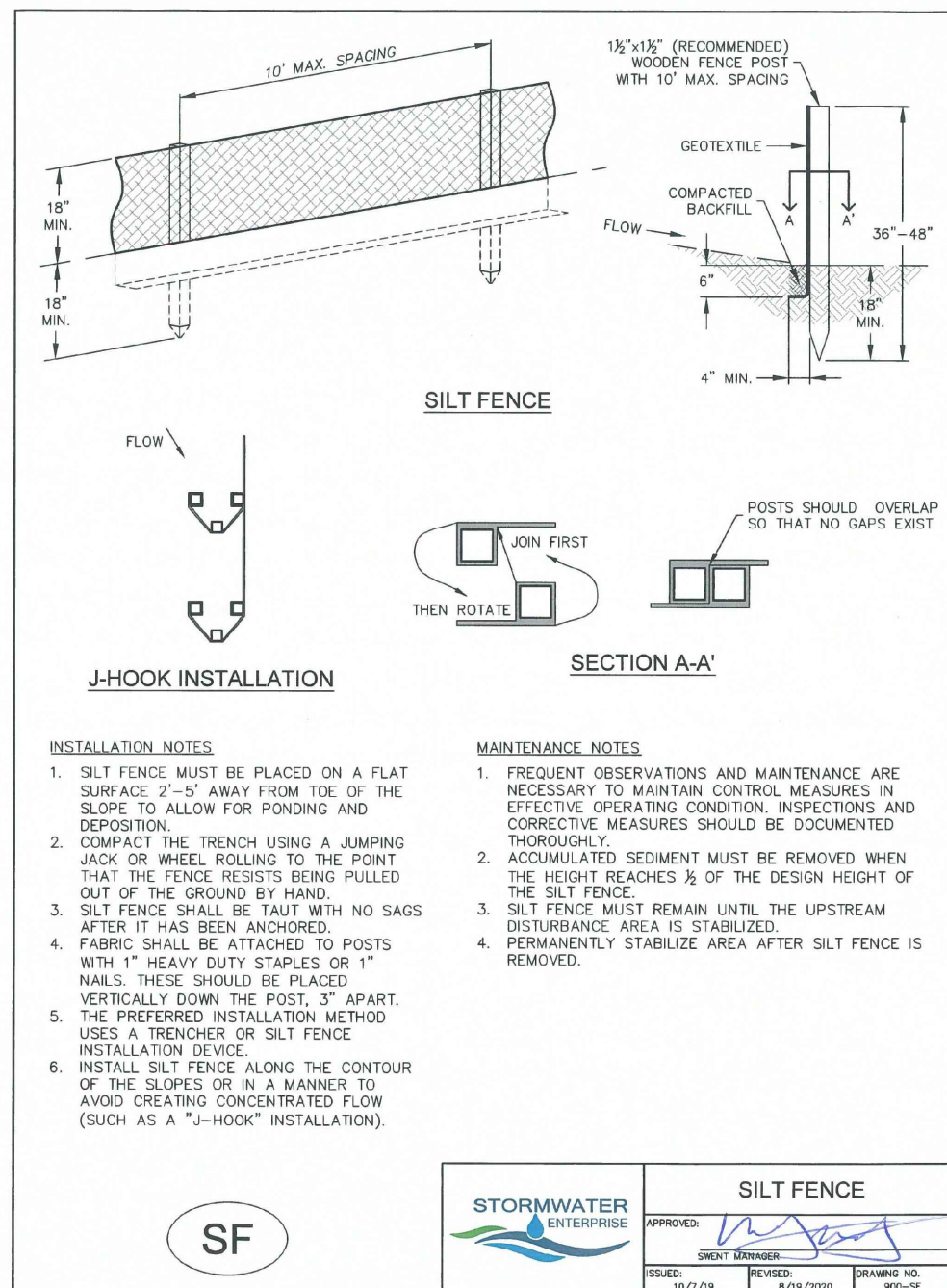
DRAWING SCALE:  
 HORIZONTAL: N/A  
 VERTICAL: N/A

**EROSION CONTROL DETAILS**

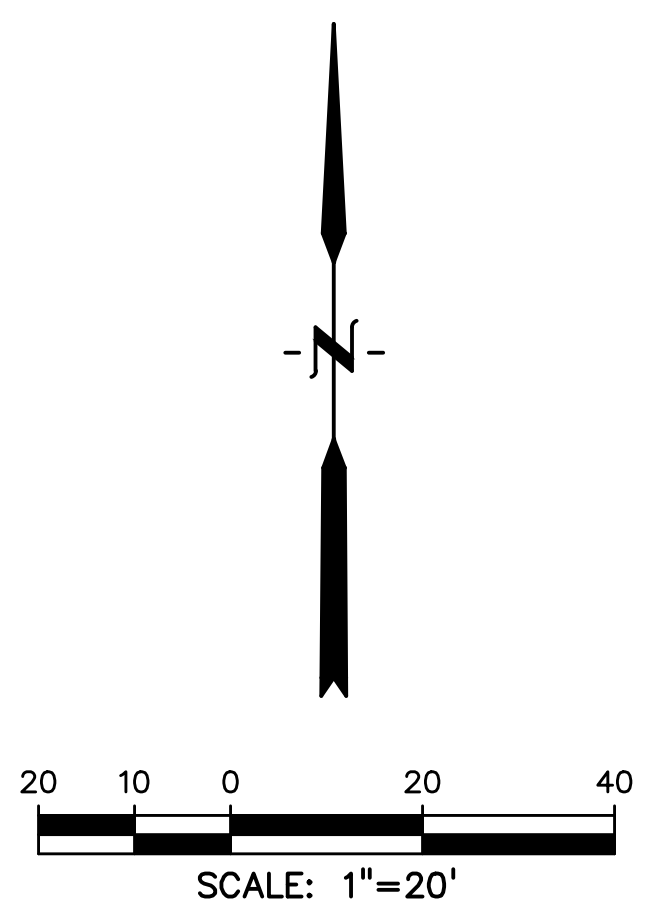
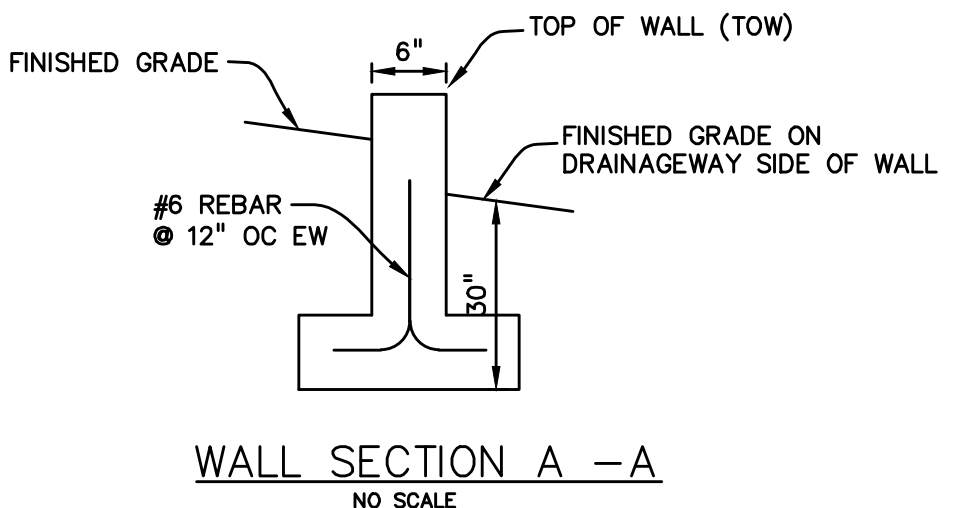
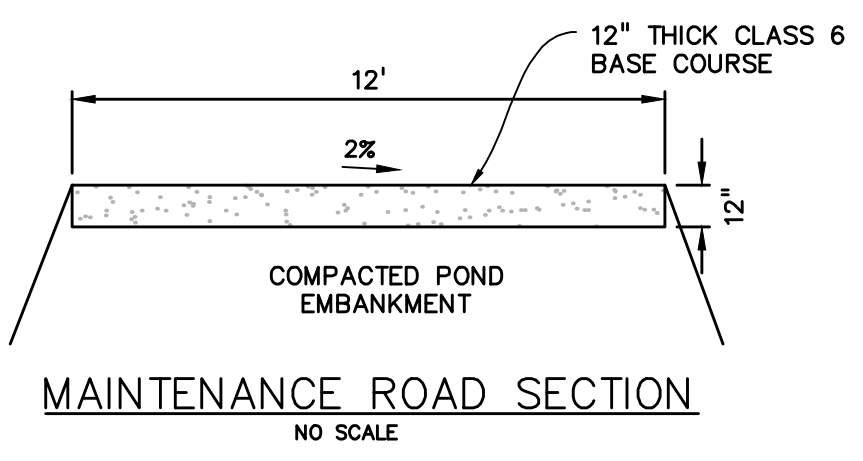
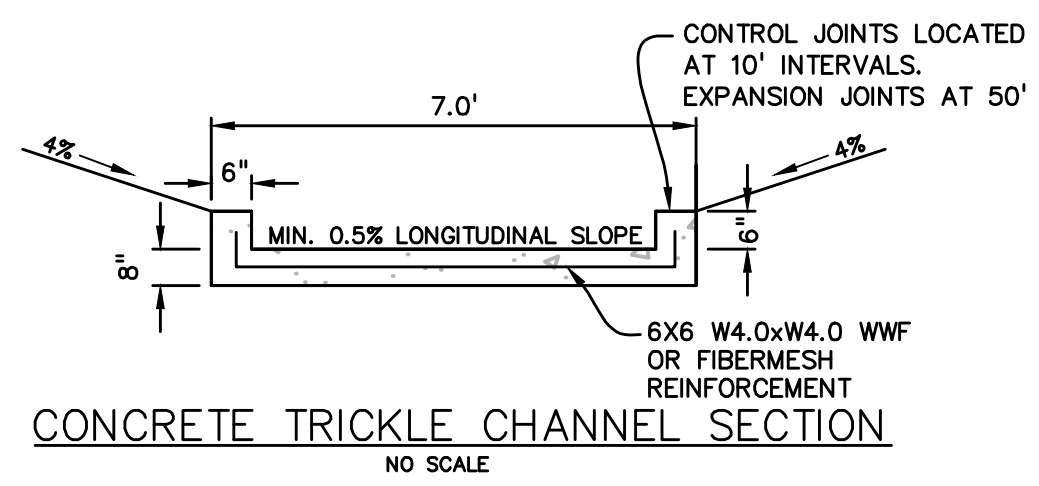
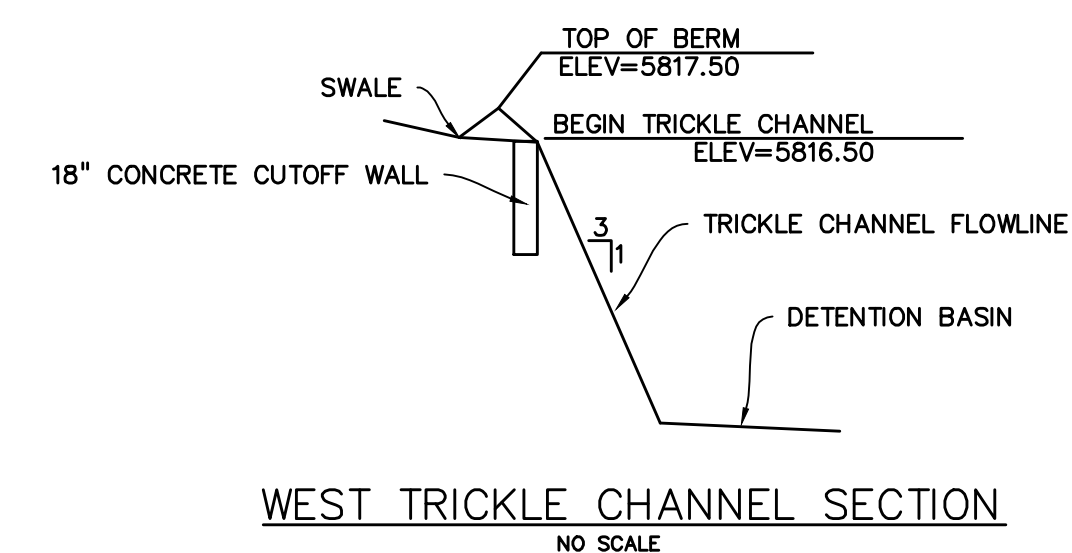
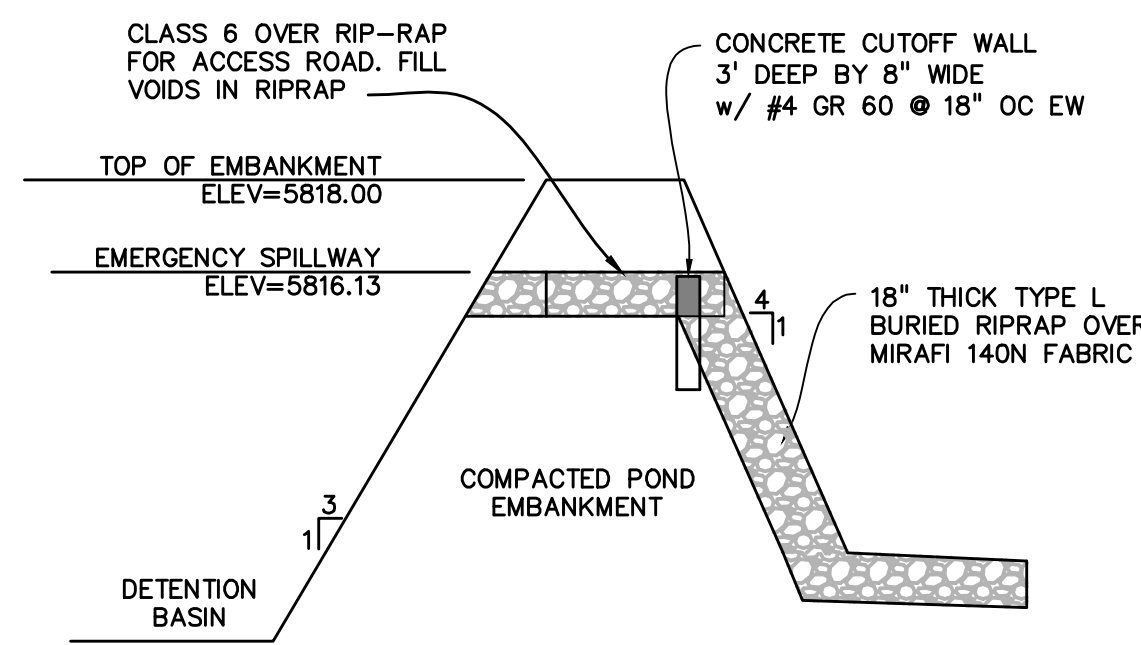
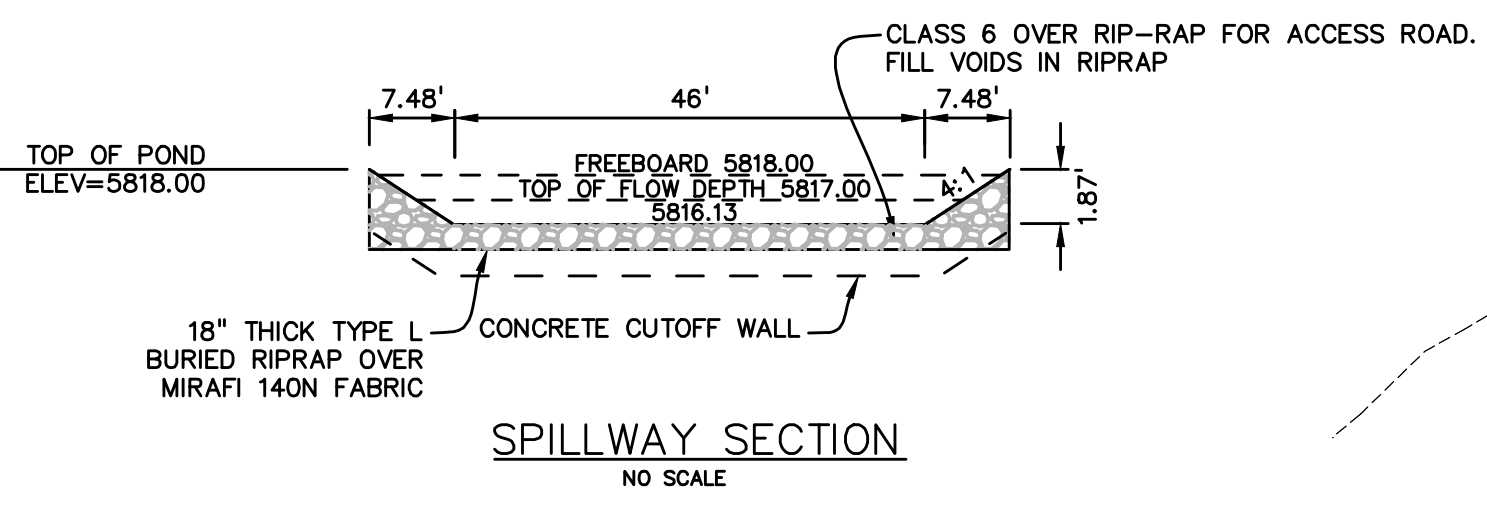
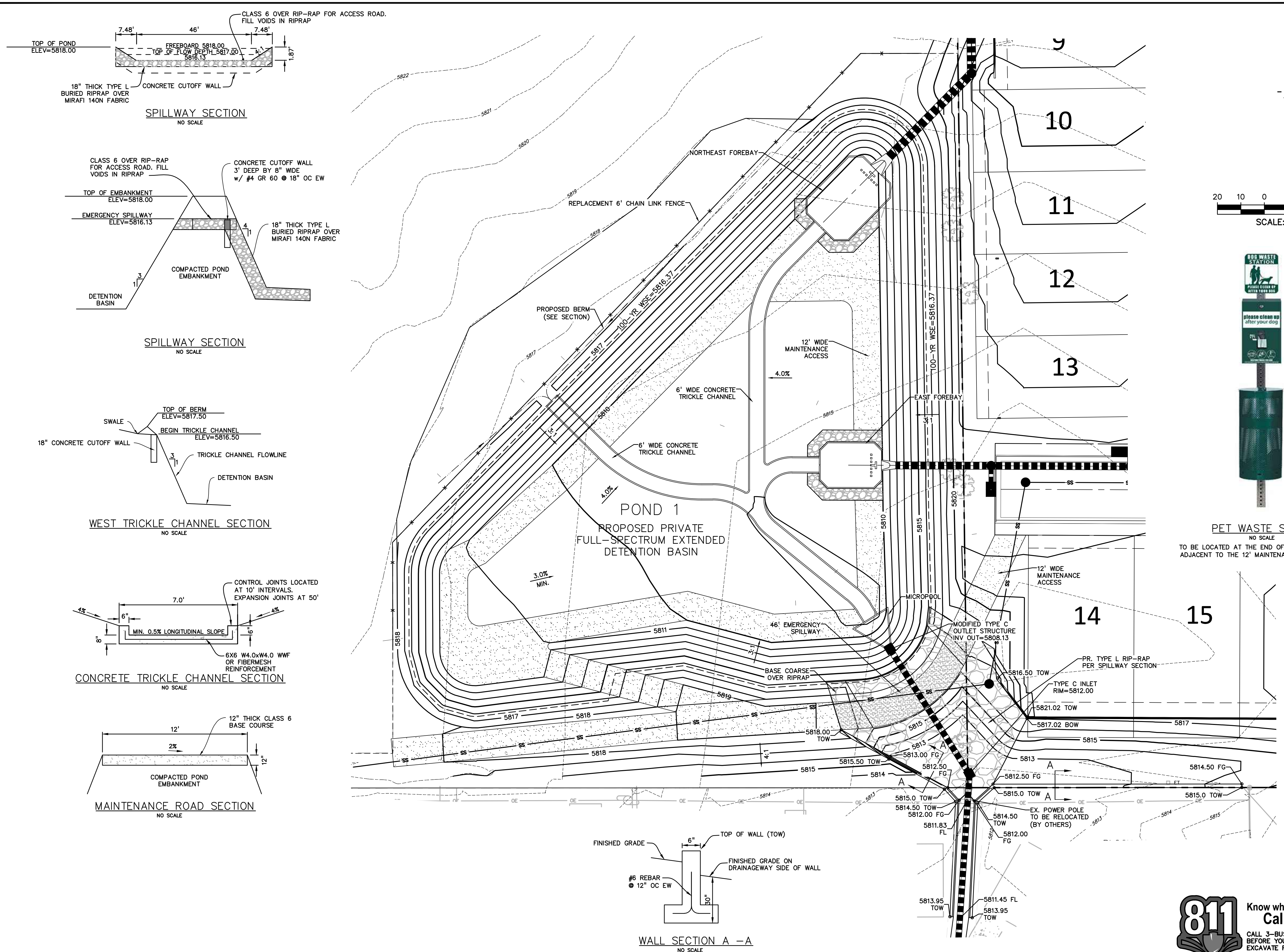
PROJECT NO. 21085-03CSCV  
 DRAWING NO.

**ECDT**

SHEET: 49 OF 52



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.



**PET WASTE STATION**  
NO SCALE  
TO BE LOCATED AT THE END OF NEW HAVEN POINT ADJACENT TO THE 12' MAINTENANCE ACCESS ROAD

PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
 101 SAWATCH STREET, #100  
 COLORADO SPGS, COLORADO 80903  
 CONTACT: TIM D. MCCONNELL, P.E.  
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CLIENT:  
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|               |              |
| DESIGNED BY:  | TDM          |
| DRAWN BY:     | SNB          |
| CHECKED BY:   | TDM          |
| FILE NAME:    | 21085-03PD01 |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1" = 50'  
 VERTICAL: N/A

**DETENTION POND DETAILS**

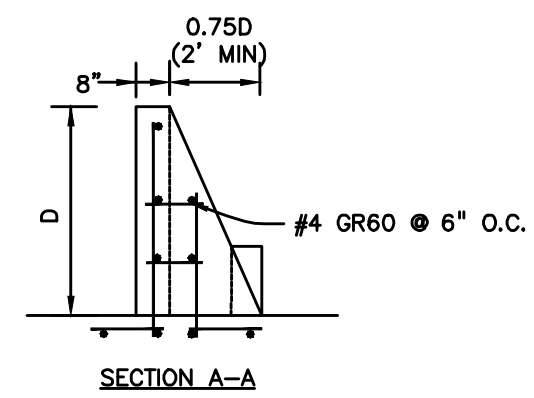
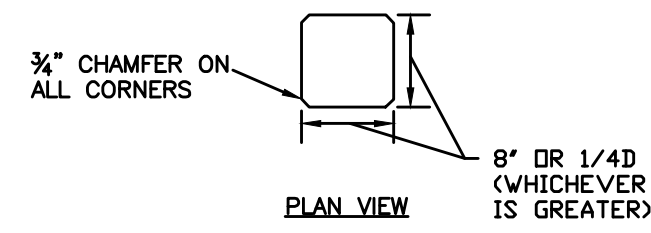
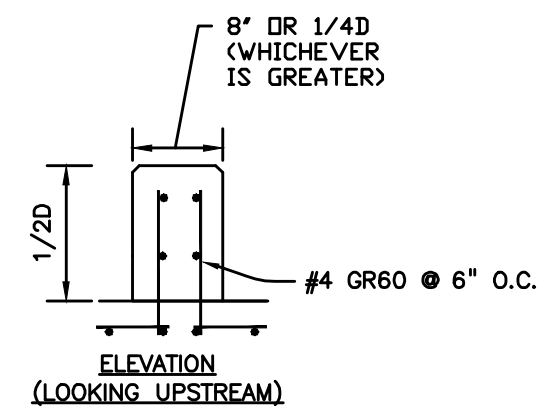
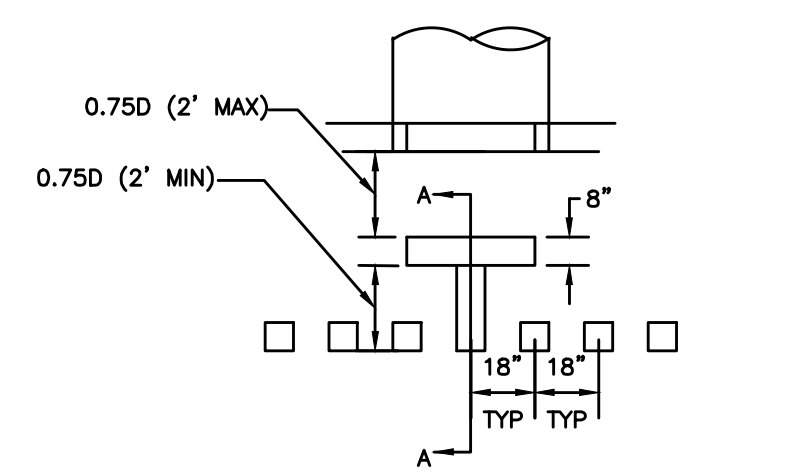
PROJECT NO. 21085-03CSCV  
 DRAWING NO.

**PD01**

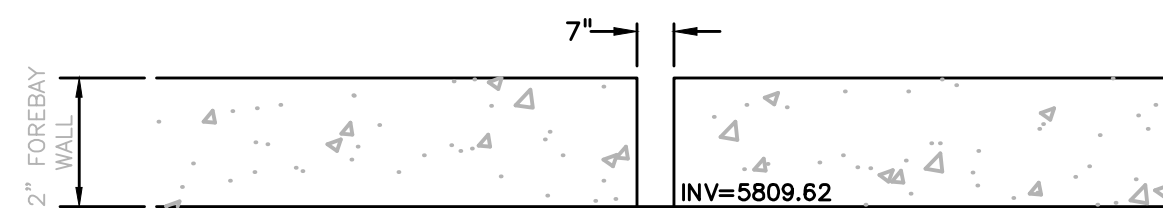
SHEET: 50 OF 52



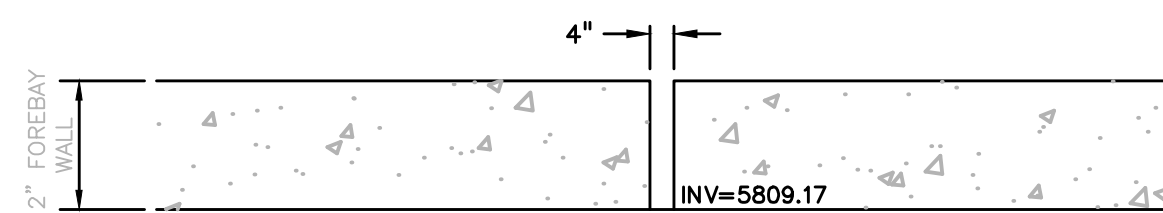




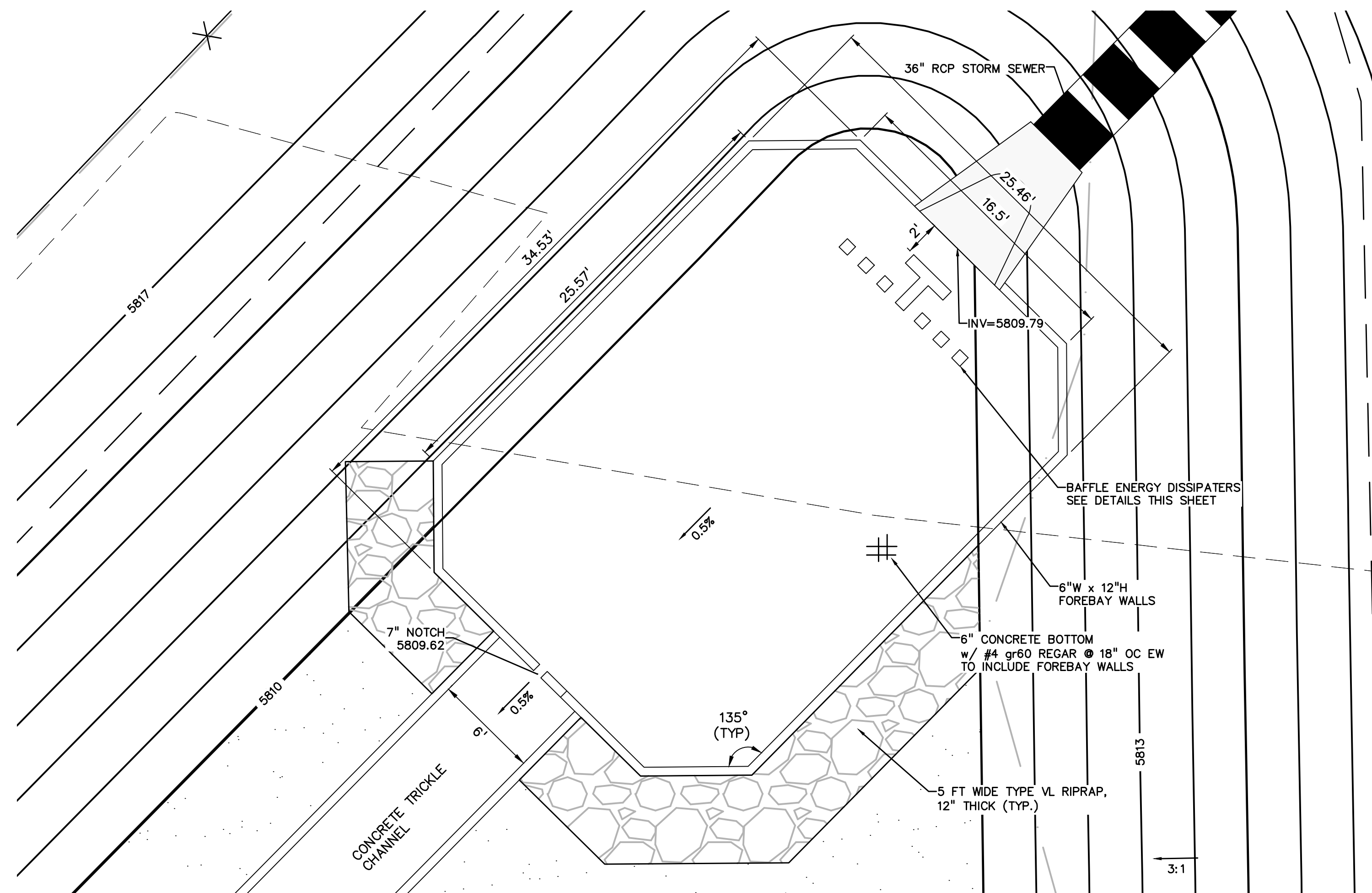
FOREBAY BAFFLE ENERGY DISSIPATORS  
NO SCALE



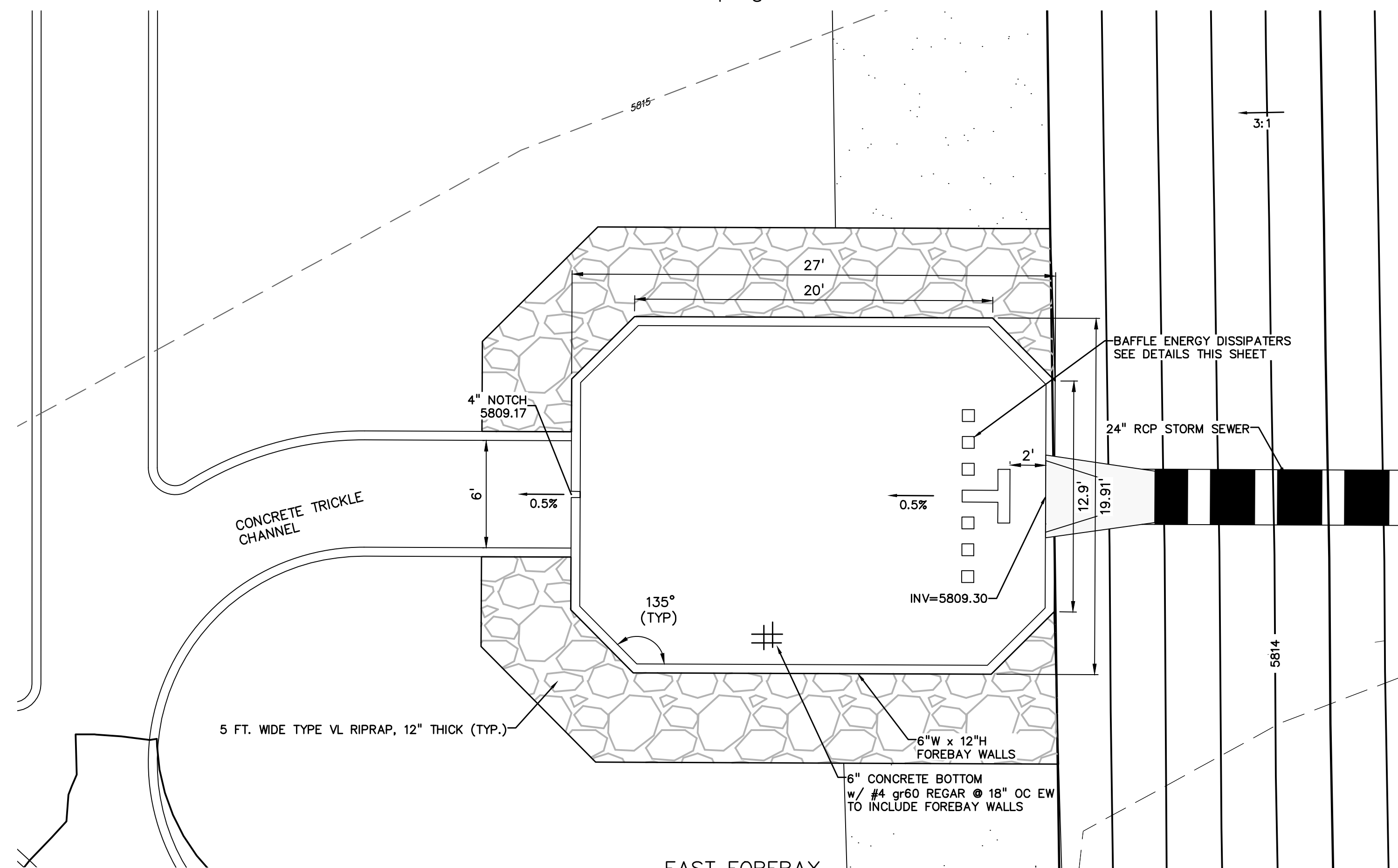
NORTHEAST FOREBAY NOTCH  
NO SCALE



EAST FOREBAY NOTCH  
NO SCALE



NORTHEAST FOREBAY  
1"=5'



EAST FOREBAY  
1"=5'

PREPARED BY:

**DREXEL, BARRELL & CO.**  
Engineers • Surveyors  
101 SAWATCH STREET, #100  
COLORADO SPGS, COLORADO 80903  
CONTACT: TIM D. MCCONNELL, P.E.  
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| DRAWN BY:    | SBN          |
| CHECKED BY:  | TDM          |
| FILE NAME:   | 21085-03PD02 |

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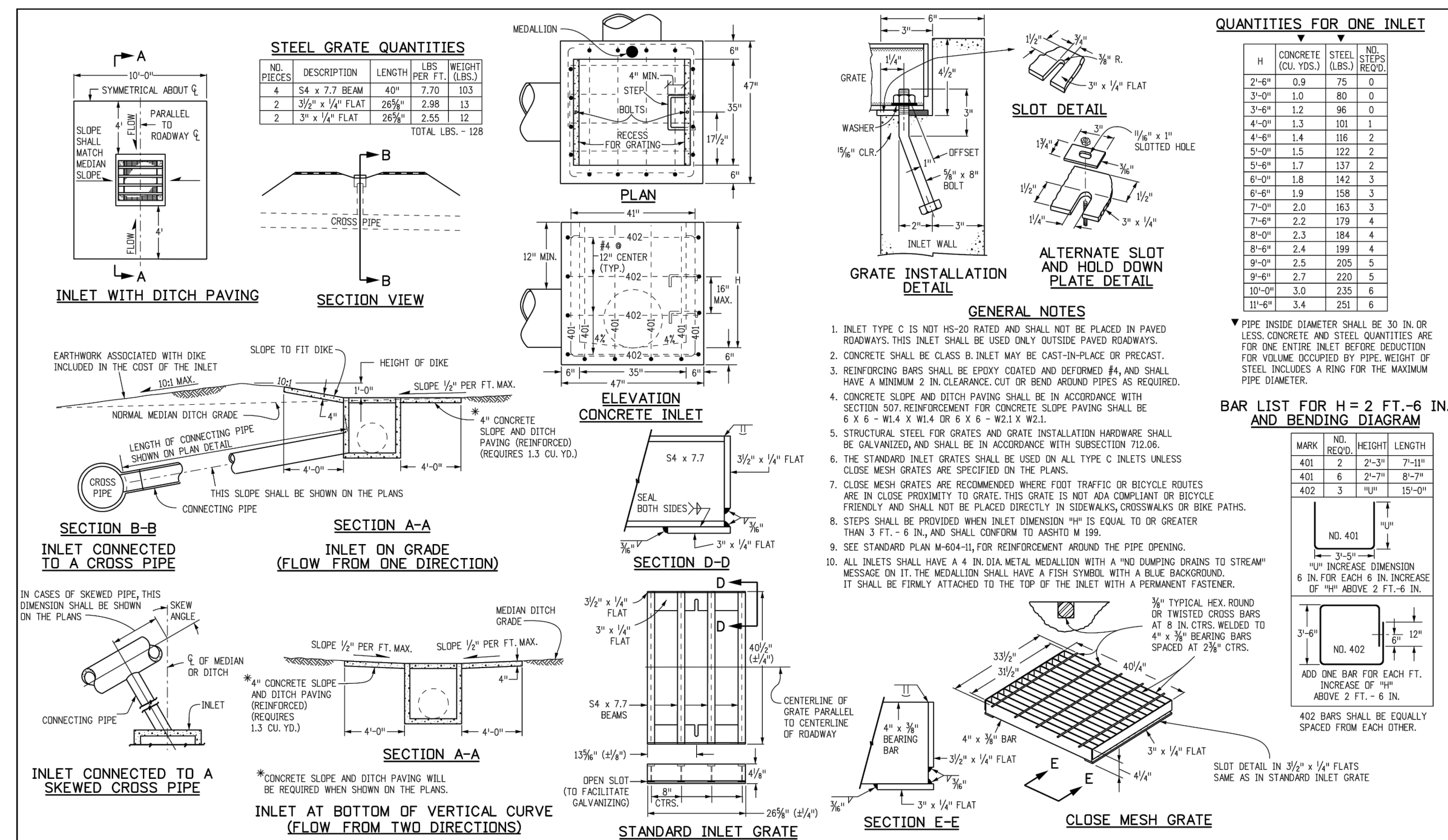
DRAWING SCALE:  
HORIZONTAL: 1" = 5'  
VERTICAL: N/A

**CONCRETE FOREBAY DETAILS**

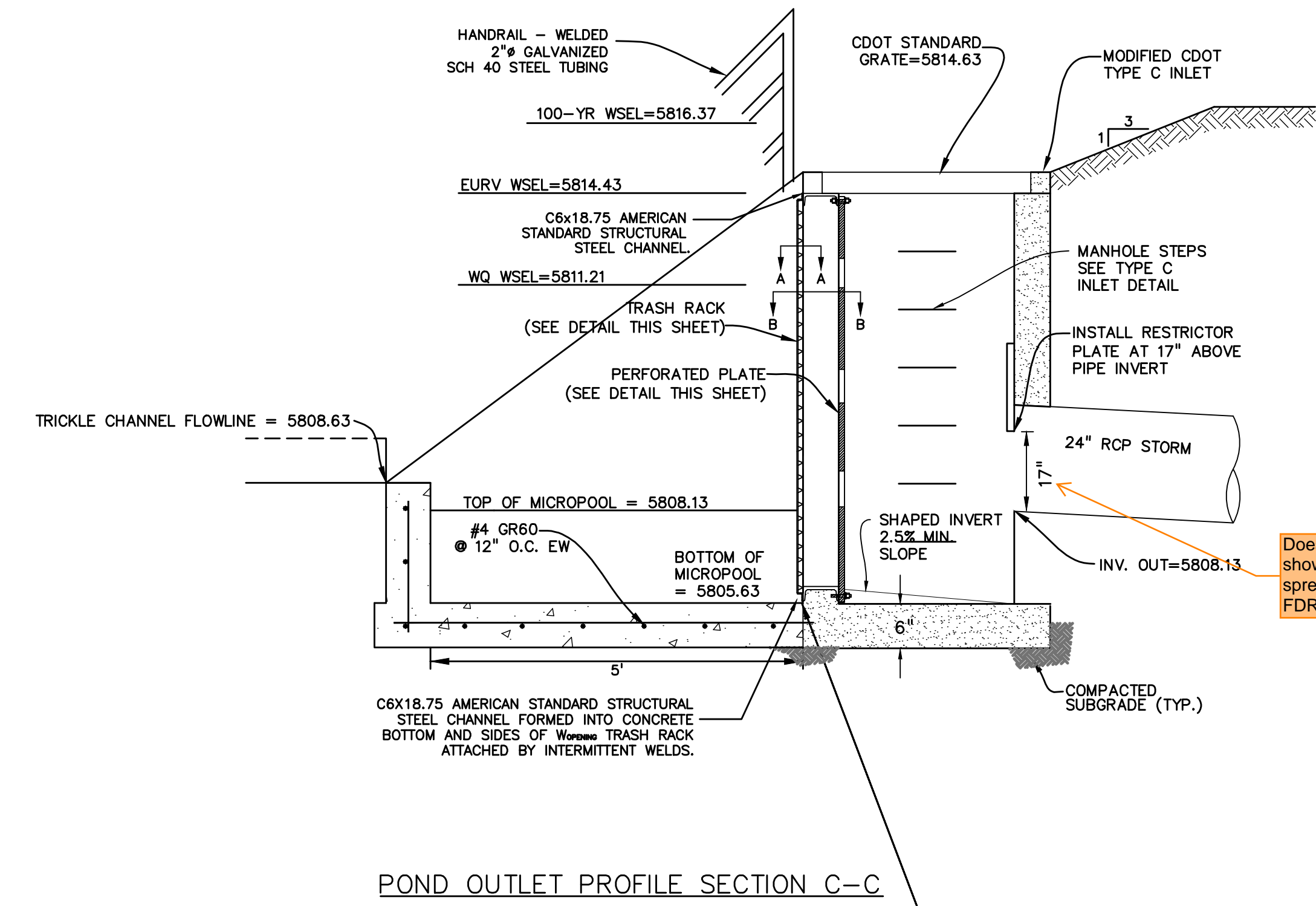
PROJECT NO. 21085-03CSCV  
DRAWING NO.

**PD02**

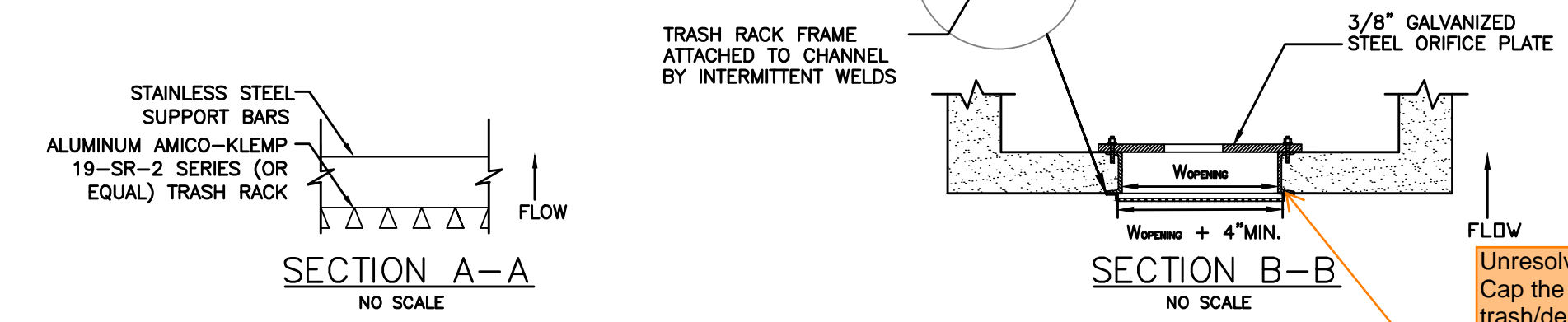
SHEET: 51 OF 52



|  |                     |                        |           |   |
|--|---------------------|------------------------|-----------|---|
| <b>Computer File Information</b>                                     |                     | <b>Sheet Revisions</b> |           | Colorado Department of Transportation<br>4201 East Arkansas Avenue<br>Denver, Colorado 80222<br>Phone: (303) 757-8083<br>Fax: (303) 757-8820<br>Project Development Branch DD/LTA |
| Creation Date: 07/04/12  | Initials: DD        | Date:                  | Comments: |   |
| Last Modification Date: 07/04/12                                     | Initials: LTA       | CECD                   |           |   |
| File Path: \\www.coloradotransportation.com\Business\Resid\mgsupport |                     | CECD                   |           |   |
| Drawing File Name: 604010001.dgn                                     |                     | CECD                   |           | <b>INLET, TYPE C</b><br>STANDARD PLAN NO. M-604-10<br>Sheet No. 1 of 1  |
| CAD Ver: MicroStation V8   | Scale: Not to Scale | Units: English         | CECD      | Issued By: Project Development Branch July 4, 2012  |

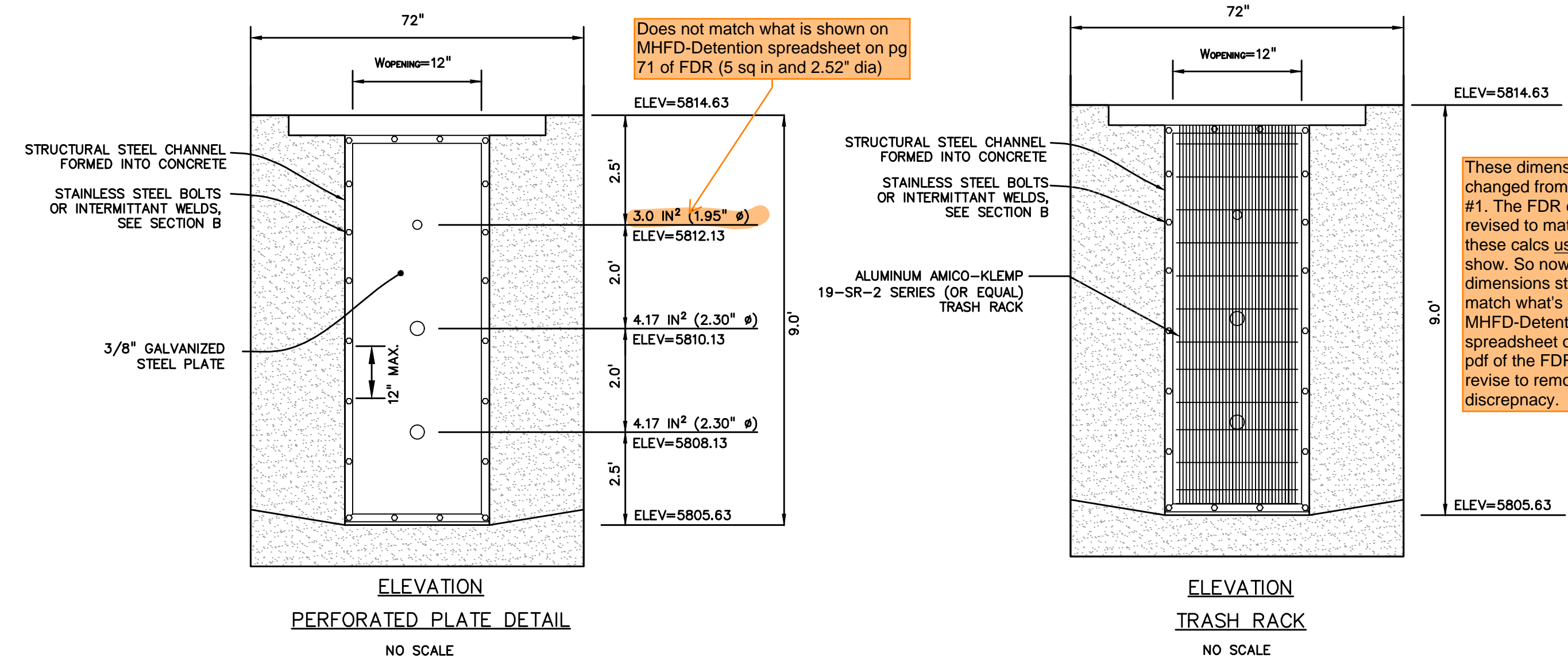


Does not match what is shown on MHFD-Detention spreadsheet on pg 71 of FDR (13')

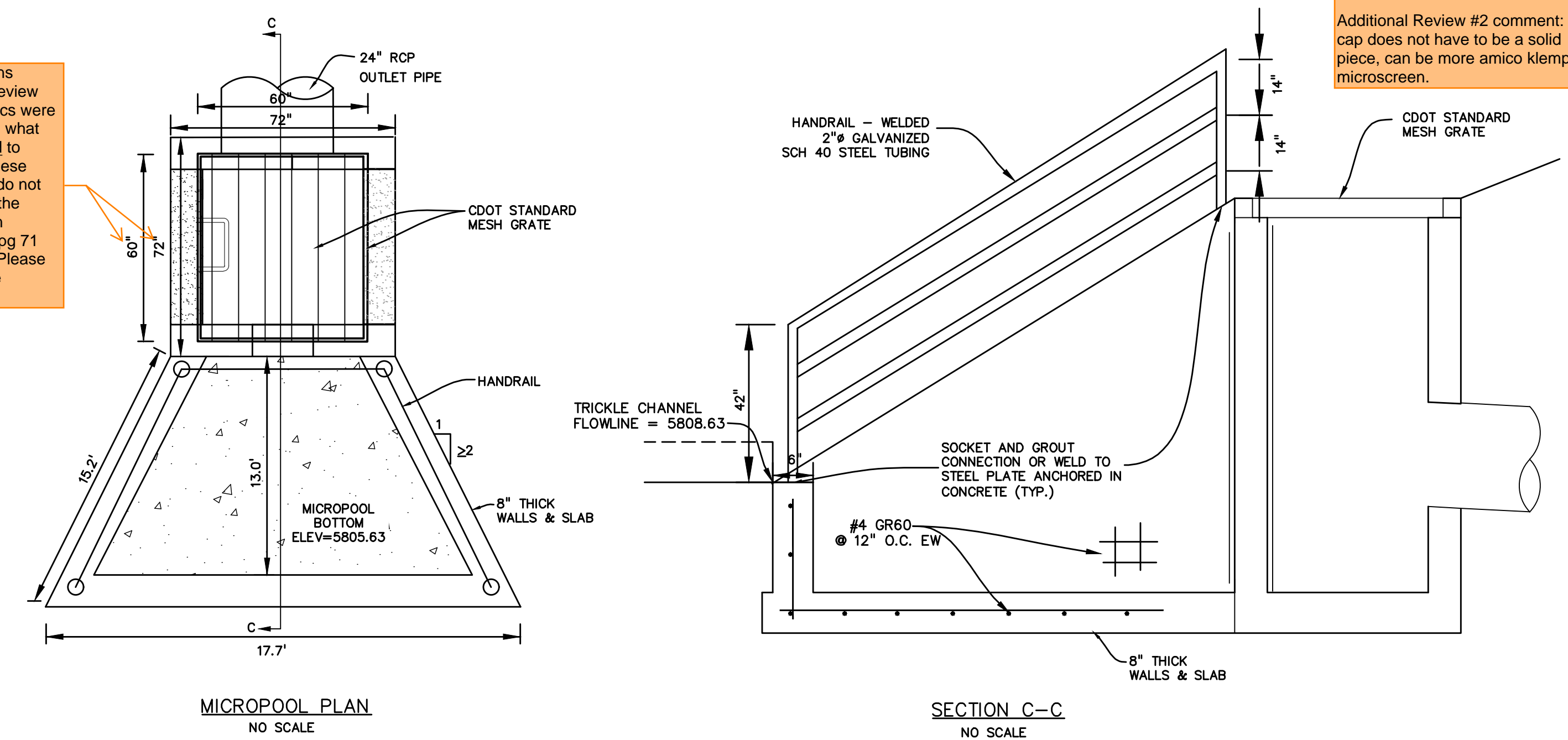


Unresolved Review #1 comment: Cap the top of this opening so trash/debris cannot flow down between the screen and orifice plate.

Additional Review #2 comment: cap does not have to be a solid piece, can be more amico klemp microscreen.



These dimensions changed from Review #1. The FDR calcs were revised to match what these calcs used to show. So now these dimensions still do not match what's in the MHFD-Detention spreadsheet on pg 71 pdf of the FDR. Please revise to remove discrepancy.



- PERFORATED PLATE NOTES:**
- PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
  - BOLT PLATE TO CONCRETE @ 12" MAX. ON CENTER. ORIFICE PLATE IS TO BE REMOVABLE.
  - ALL STEEL SURFACES ARE TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND.
- WQCV TRASH RACKS:**
- TRASH RACKS SHALL BE STAINLESS STEEL OR ALUMINUM AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- GENERAL NOTES:**
- ALL EXTERIOR STEEL SHALL BE EITHER STAINLESS OR HOT DIPPED GALVANIZED

PREPARED BY:



CLIENT:

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CONSTRUCTION DOCUMENTS FOR:

**HAVEN VALLEY**  
(LETA DR.) BRADLEY RD/ALTURAS DR.  
SECURITY, EL PASO COUNTY, COLORADO

| ISSUE         | DATE    |
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|--------------|-------------|
| DESIGNED BY: | SBN         |
| DRAWN BY:    | SBN         |
| CHECKED BY:  | TDM         |
| FILE NAME:   | 21085-03P03 |

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
HORIZONTAL: N/A  
VERTICAL: N/A

**POND OUTLET STRUCTURE DETAILS**

PROJECT NO. 21085-03CSCV  
DRAWING NO.

**OUT1**

SHEET: 52 OF 52