



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.

LATIGO TRAILS FILING NO. 10

EL PASO COUNTY, COLORADO

GRADING AND EROSION CONTROL PLANS

CONTACTS

OWNER/DEVELOPER: BRJM, LLC
CONTACT: BOB IRWIN
101 N. CASCADE, SUITE 200
COLORADO SPRINGS, CO 80903
(719) 475-7474

CIVIL ENGINEER: DREXEL BARRELL & CO.
CONTACT: TIM D. MCCONNELL, P.E.
101 SAHWATCH STREET, #100
COLORADO SPRINGS, CO 80903
(719) 260-0887

EL PASO COUNTY: PLANNING AND COUNTY DEVELOPMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, COLORADO 80910
(719) 520-6819

DEPARTMENT OF PUBLIC WORKS
3257 AKERS DR
COLORADO SPRINGS, CO 80910
(719) 529-6460

DISTRICT: MERIDIAN SERVICE METROPOLITAN DISTRICT
11886 STAPLETON DR
PEYTON, CO 80831
(719) 495-6567

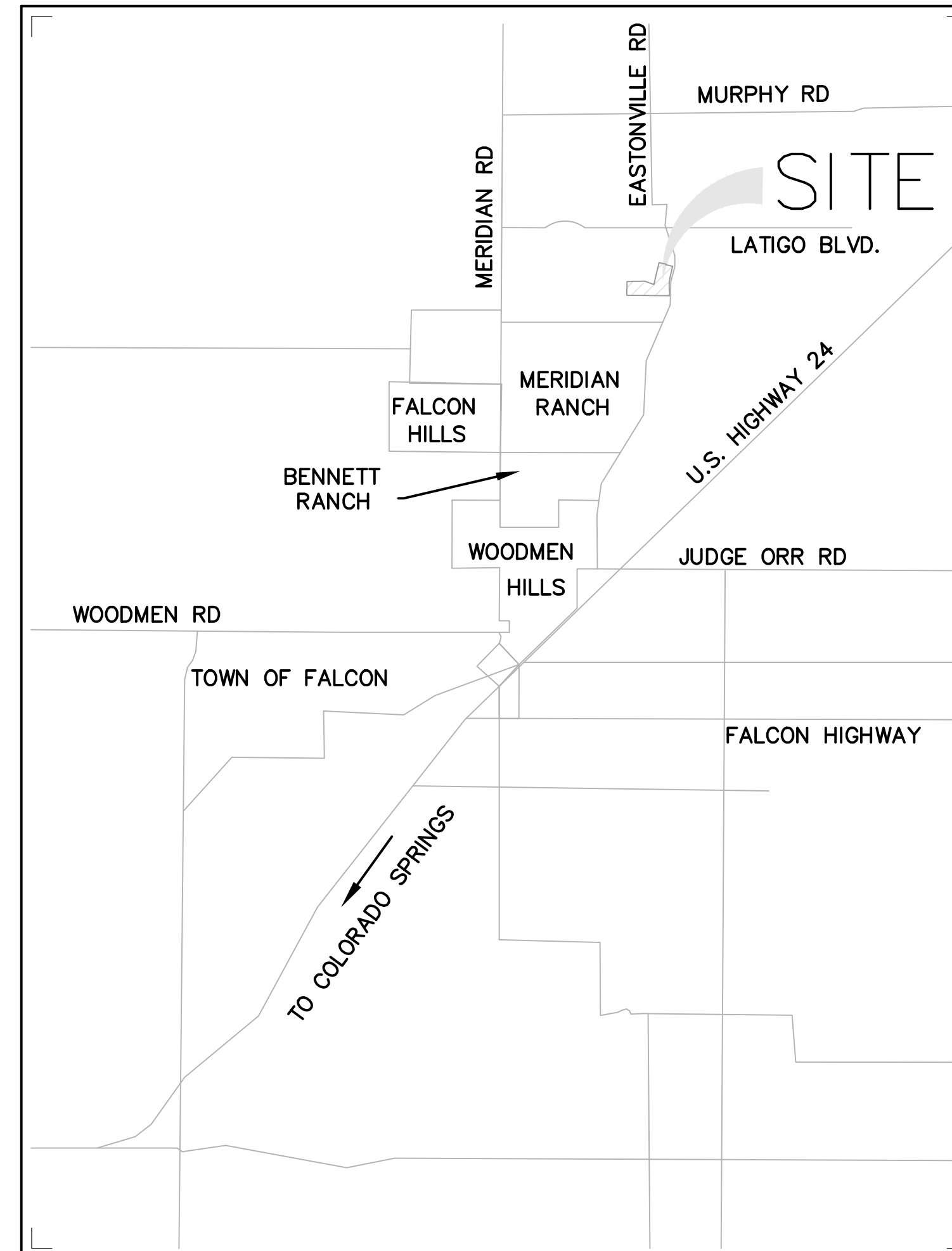
FIRE PROTECTION DISTRICT: FALCON FIRE FPD
7030 N MERIDIAN RD
FALCON, CO 80831
(719) 494-4050

ELECTRIC: MOUNTAIN VIEW ELECTRIC ASSOC., INC.
11140 EAST WOODMEN ROAD
FALCON, COLORADO 80831
(719)495-2283

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 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.
- 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.
- 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 THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED 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.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEO. 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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.
- 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.
- 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.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 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.
- 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.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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.
- 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.
- 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.
- 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.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 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, 402, 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.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 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.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INCORPORATED, JANUARY 20, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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



VICINITY MAP
NOT TO SCALE



SHEET INDEX

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| 2 | EC-1 | CONESTOGA TR. GRADING & EROSION CONTROL PLAN |
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| 4 | EC-3 | CONESTOGA TR. GRADING & EROSION CONTROL PLAN |
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| 13 | PD1 | POND G148 DETAILS |
| 14 | OUT1 | POND G148 OUTLET STRUCTURE |
| 15 | PD2 | POND G18 DETAILS |
| 16 | OUT2 | POND G18 OUTLET STRUCTURE |
| 17 | PD3 | POND G19 DETAILS |
| 18 | OUT3 | POND G19 OUTLET STRUCTURE |

OWNER'S STATEMENT

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

ROBERT C. IRWIN _____ DATE _____

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 _____ DATE _____
P.E.# 33797

EL PASO COUNTY

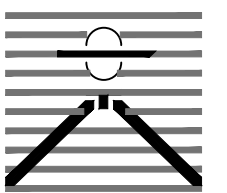
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, 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 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. _____ DATE _____
COUNTY ENGINEER

PREPARED BY:



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

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21820-01CV3

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

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

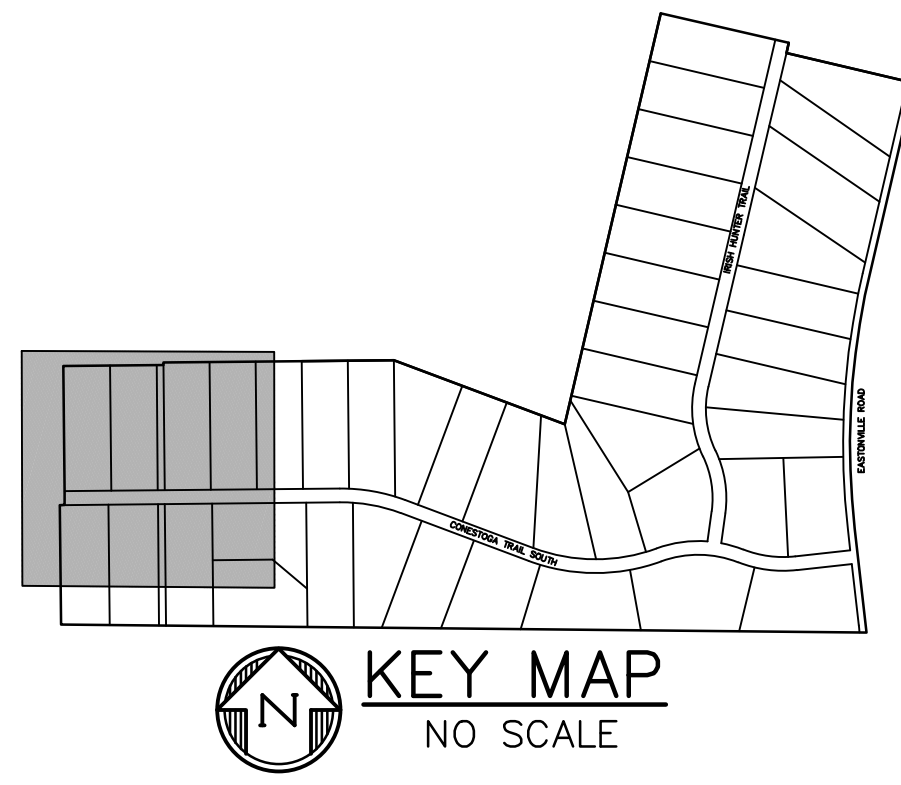
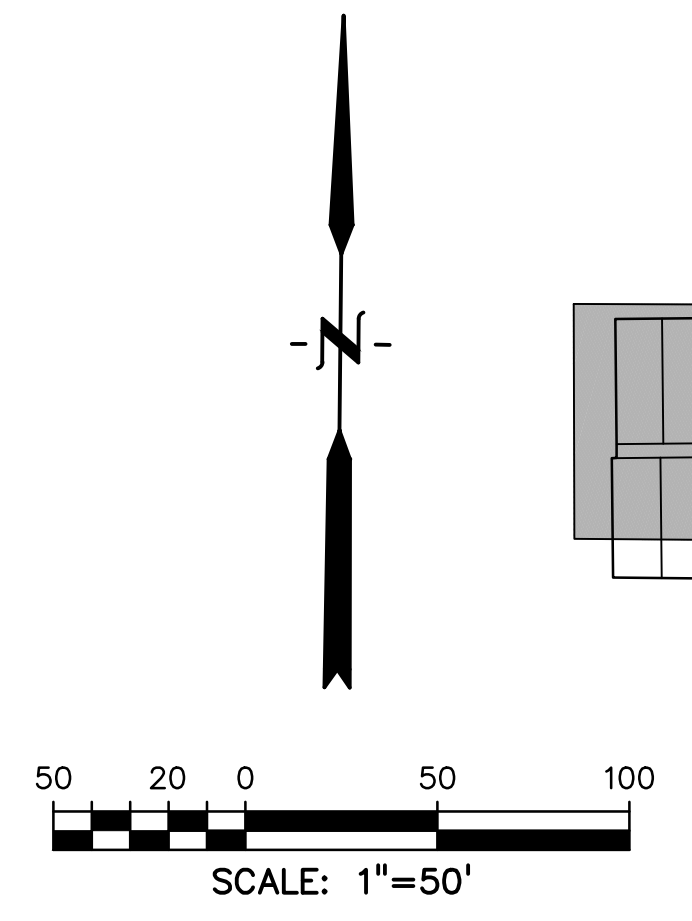
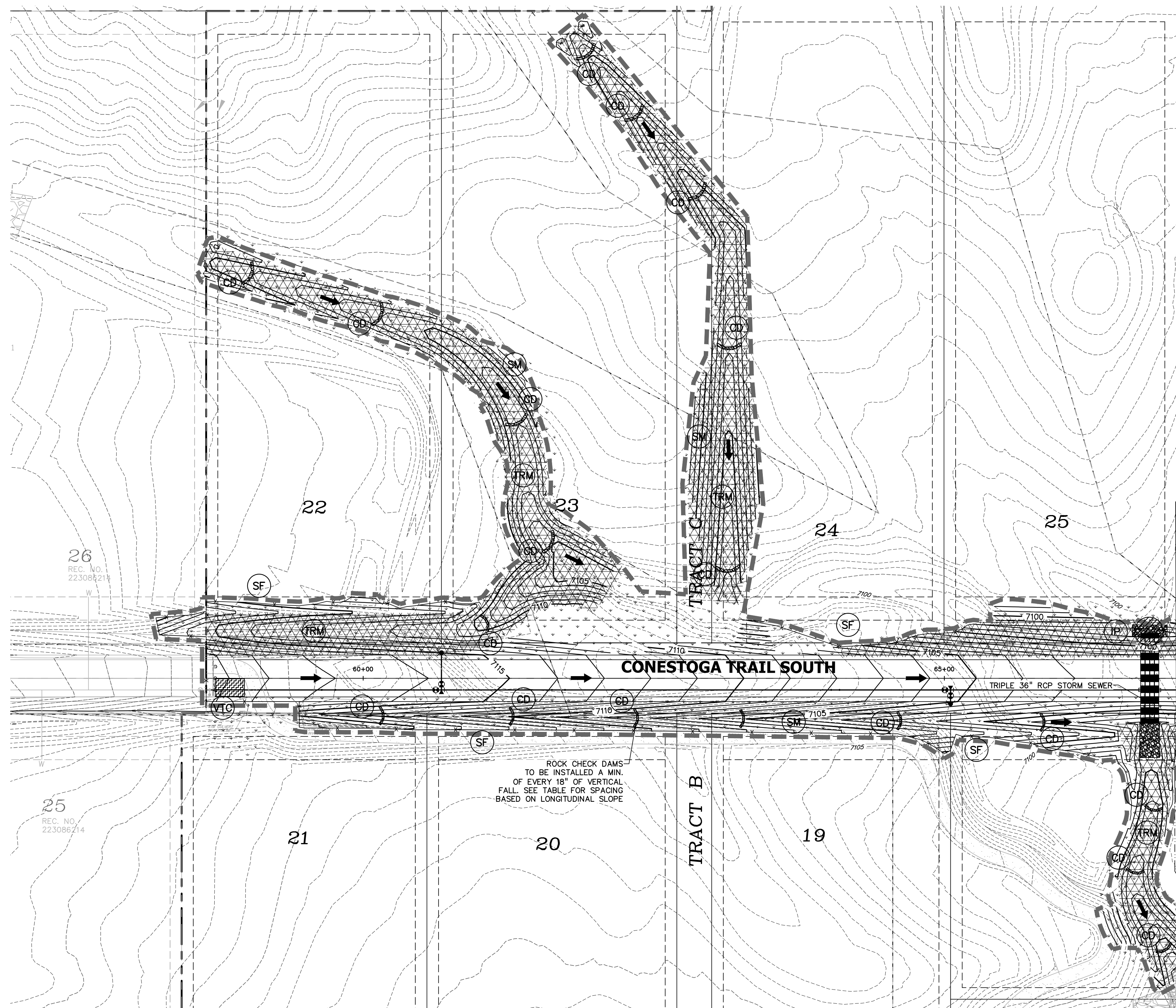
COVER SHEET

PROJECT NO. 21820-01CSCV
DRAWING NO.

CV-1

SF2421

SHEET: 1 OF 18



NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
4. THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
5. DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
6. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

BMP PHASING:

- INITIAL/INTERIM**
1. INSTALL VTC
 2. INSTALL CWA
 3. ESTABLISH SSA & STOCKPILE LOCATIONS
 4. INSTALL CONSTRUCTION FENCE
 5. INSTALL SILT FENCE
 6. INSTALL ROUGH CUT STREET CONTROL
 7. INSTALL SEDIMENT BASINS
 8. INSTALL SWALES
 9. INSTALL CHECK DAMS
 10. INSTALL INLET/OUTLET PROTECTION
- FINAL**
1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
 2. REMOVE ALL TEMPORARY BMPs AFTER FINAL STABILIZATION HAS BEEN REACHED.

LEGEND

- PROPOSED INTERMEDIATE CONTOUR..... 5522
- PROPOSED INDEX CONTOUR..... 5520
- EX INTERMEDIATE CONTOUR..... 5364
- EX INDEX CONTOUR..... 5365
- DIRECTION OF FLOW..... ←
- PROJECT BOUNDARY/PROPERTY LINE..... - - - - -
- ROW..... ————
- LIMITS OF DISTURBANCE/CONSTRUCTION SITE BOUNDARY..... ————
- CUT/FILL LINE..... ———— CUT ———— FILL
- INTERIM/FINAL INLET PROTECTION..... IP [Symbol]
- INITIAL/INTERIM SILT FENCE..... SF [Symbol]
- INITIAL/INTERIM CONCRETE WASHOUT AREA..... CWA [Symbol]
- INITIAL/INTERIM VEHICLE TRACKING CONTROL..... VTC [Symbol]
- INITIAL/INTERIM STABILIZED STAGING AREA..... SSA [Symbol]
- INITIAL/INTERIM ROCK SOCKS..... RS [Symbol]
- INITIAL/INTERIM ROCK CHECK DAM..... CD [Symbol]
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN..... TSB [Symbol]
- FINAL SEEDING AND MULCHING..... SM [Symbol]
- FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT)..... TRM [Symbol]

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

ROCK CHECK DAMS TO BE INSTALLED A MIN. OF EVERY 18" OF VERTICAL FALL. SEE TABLE FOR SPACING BASED ON LONGITUDINAL SLOPE

MATCH LINE 67+00 SEE SHEET 3

PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers • Surveyors
 101 SAHWATCH ST. #100
 COLORADO SPGS, COLORADO 80903
 CONTACT: TIM D. McCONNELL, P.E.
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DESIGNED BY: TDM
 DRAWN BY: GES
 CHECKED BY: TDM
 FILE NAME: 21820-01GC1

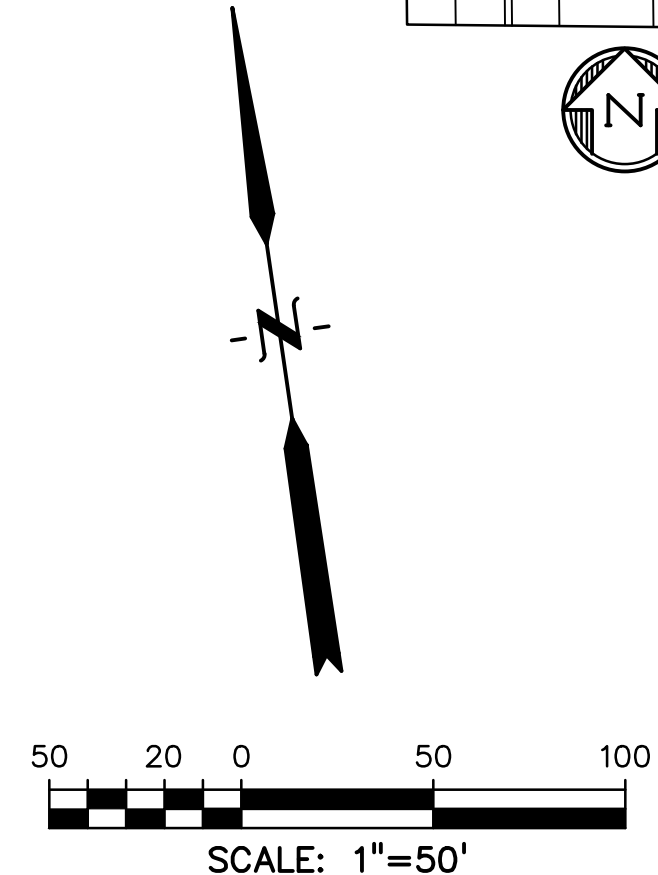
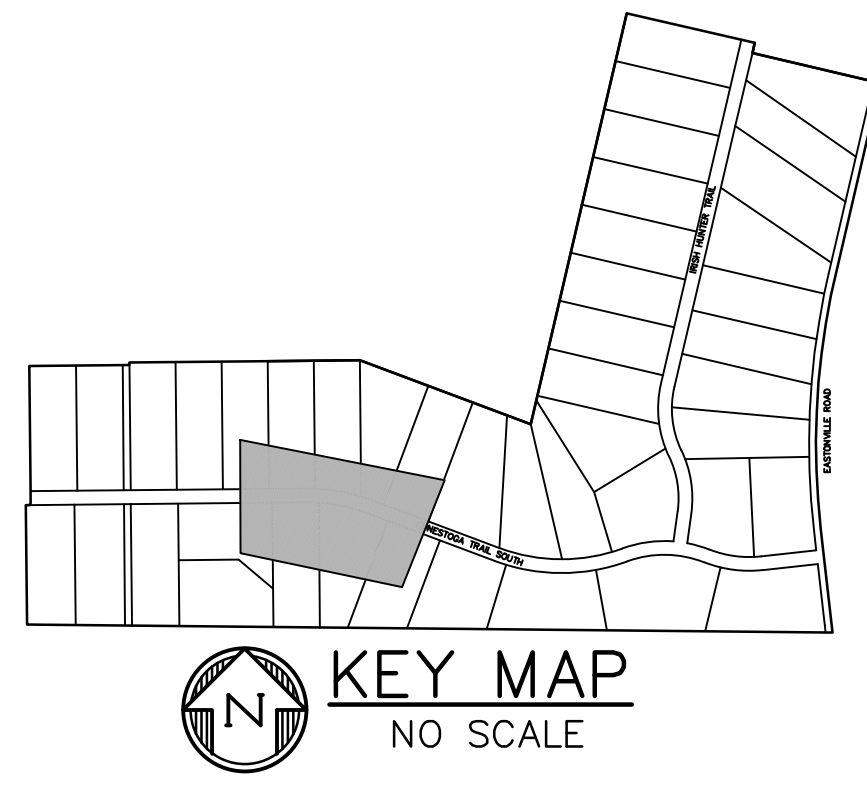
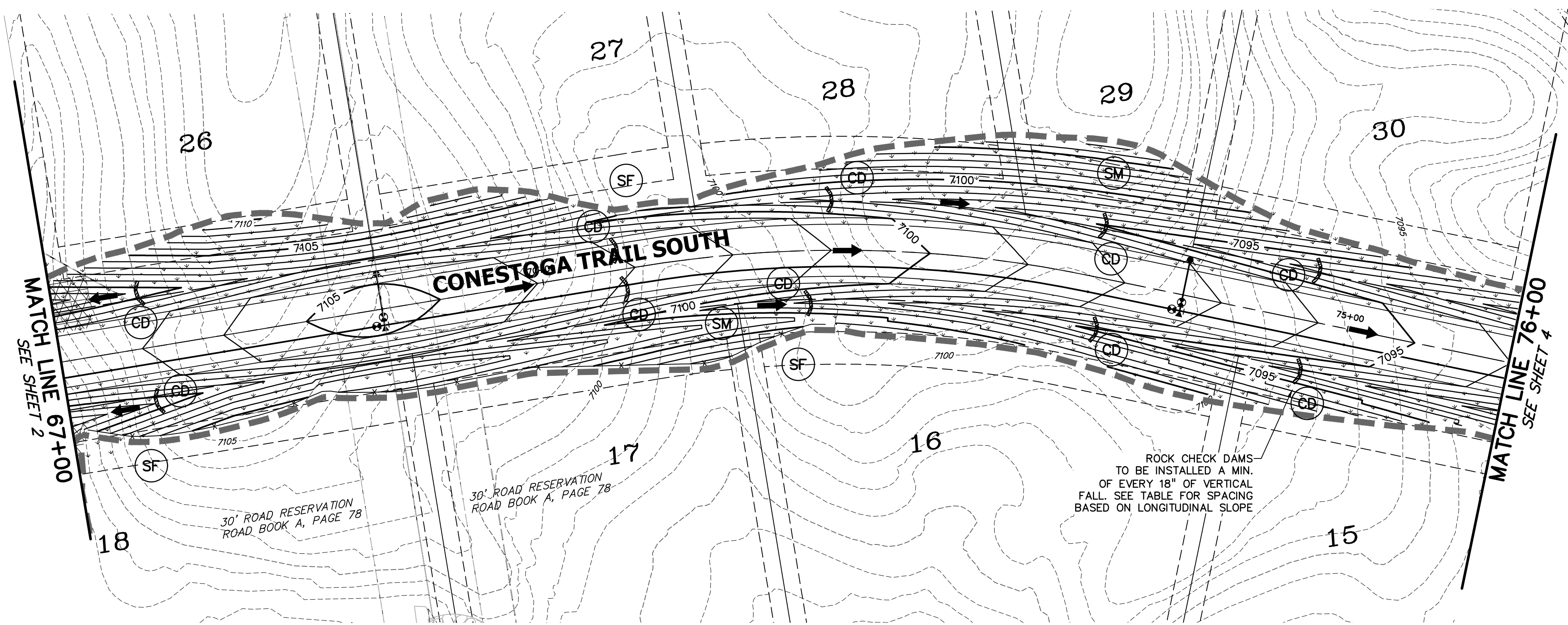
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

CONESTOGA TR.
GRADING &
ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
 DRAWING NO.

EC-1



NOTES:

- EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
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 - INSTALL SWALES
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- FINAL**
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 - REMOVE ALL TEMPORARY BMPs AFTER FINAL STABILIZATION HAS BEEN REACHED.

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

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LEGEND

- | | |
|--|---|
| PROPOSED INTERMEDIATE CONTOUR..... 5522 | INITIAL/INTERIM VEHICLE TRACKING CONTROL..... (VTC) |
| PROPOSED INDEX CONTOUR..... 5520 | INITIAL/INTERIM STABILIZED STAGING AREA..... (SSA) |
| EX INTERMEDIATE CONTOUR..... 5364 | INITIAL/INTERIM ROCK SOCKS..... (RS) |
| EX INDEX CONTOUR..... 5365 | INITIAL/INTERIM ROCK CHECK DAM..... (CD) |
| DIRECTION OF FLOW..... | INITIAL/INTERIM TEMPORARY SEDIMENT BASIN..... (TSB) |
| PROJECT BOUNDARY/PROPERTY LINE..... | FINAL SEEDING AND MULCHING..... (SM) |
| ROW..... | FINAL TURF REINFORCEMENT MAT..... (TRM) |
| LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY..... | INITIAL/INTERIM CONCRETE WASHOUT AREA..... (CWA) |
| CUT/FILL LINE..... | |
| INTERIM/FINAL INLET PROTECTION..... (IP) | |
| INITIAL/INTERIM SILT FENCE..... (SF) | |

PREPARED BY:

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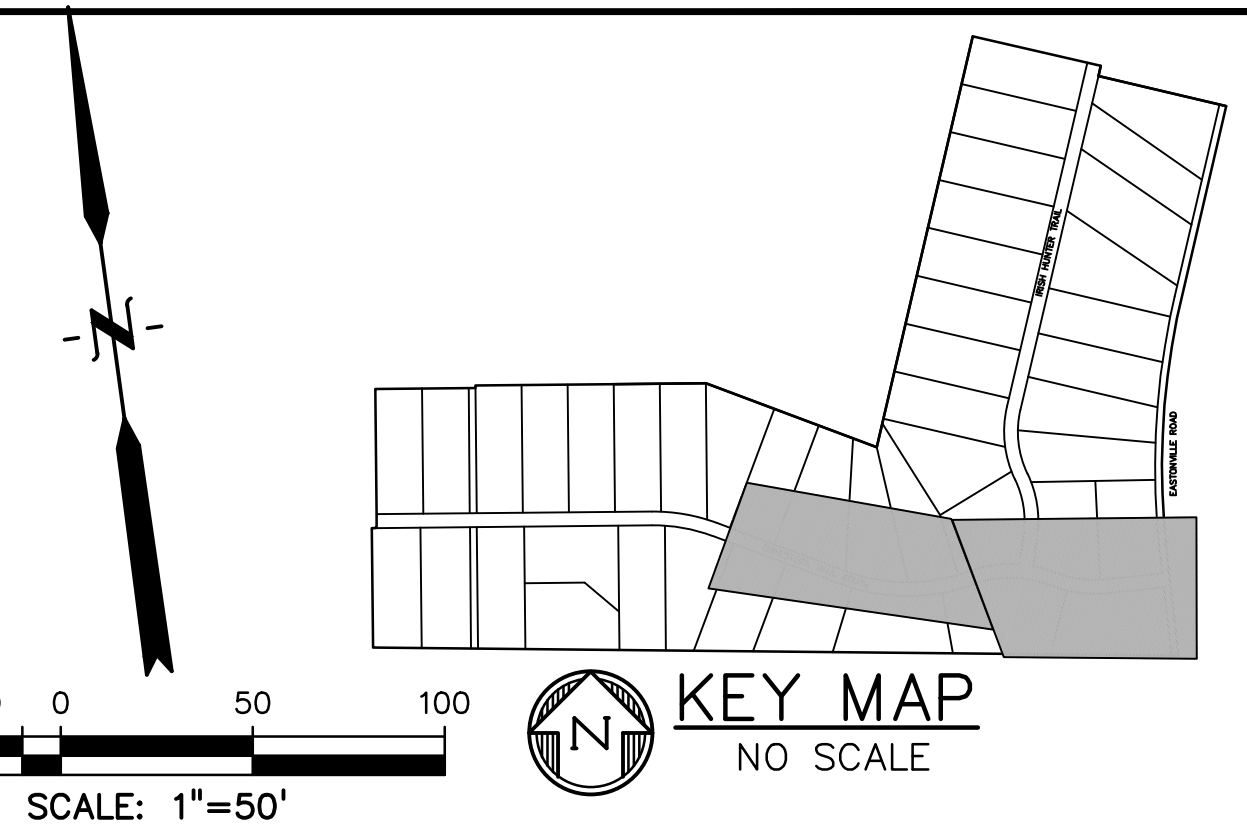
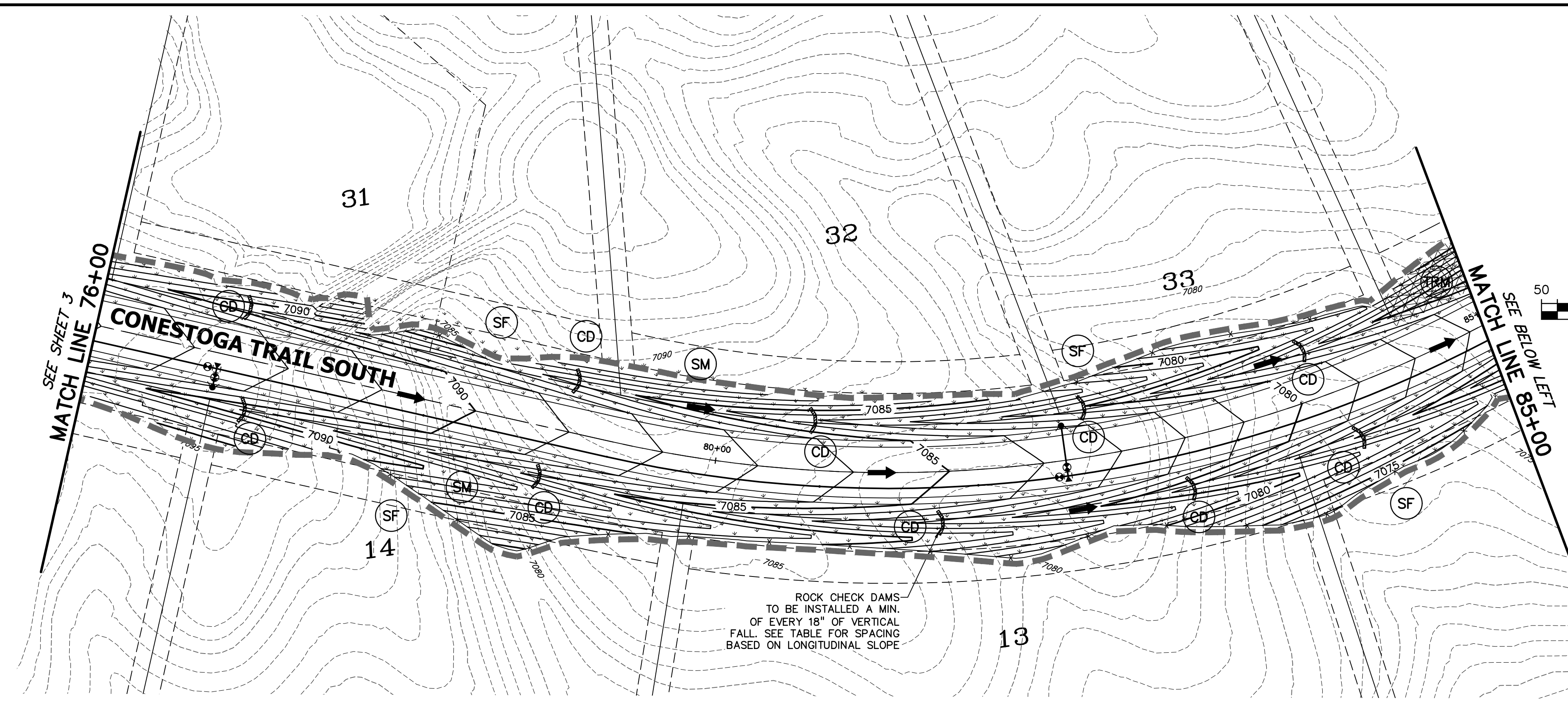
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 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

CONESTOGA TR.
GRADING &
ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
 DRAWING NO.

EC-2



NOTES:

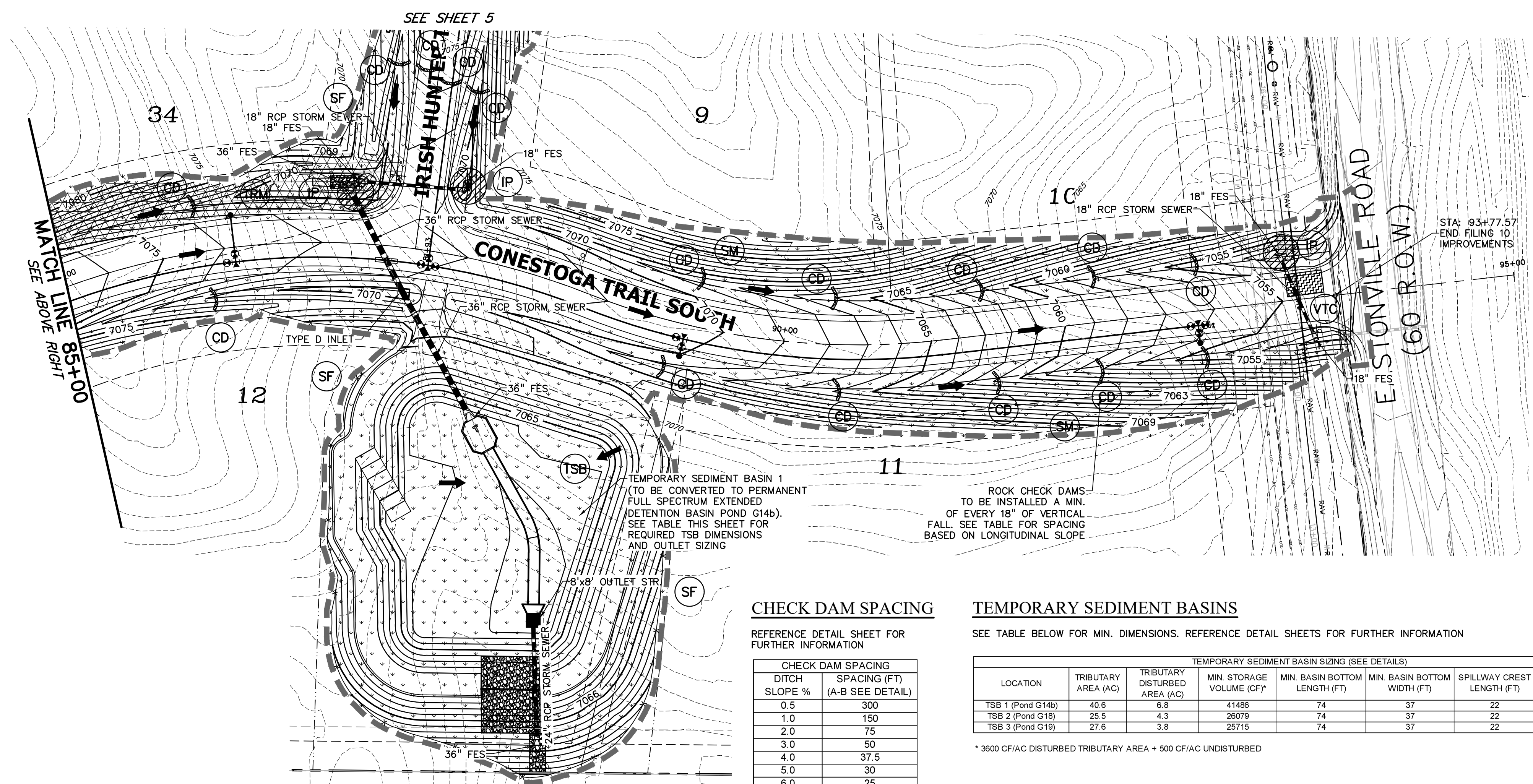
- EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
- STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
- THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
- THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
- DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
- ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

BMP PHASING:

- INITIAL/INTERIM**
- INSTALL VTC
 - INSTALL CWA
 - ESTABLISH SSA & STOCKPILE LOCATIONS
 - INSTALL CONSTRUCTION FENCE
 - INSTALL SILT FENCE
 - INSTALL ROUGH CUT STREET CONTROL
 - INSTALL SEDIMENT BASINS
 - INSTALL SWALES
 - INSTALL CHECK DAMS
 - INSTALL INLET/OUTLET PROTECTION
- FINAL**
- INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
 - REMOVE ALL TEMPORARY BMPs AFTER FINAL STABILIZATION HAS BEEN REACHED.

LEGEND

- PROPOSED INTERMEDIATE CONTOUR..... 5522
- PROPOSED INDEX CONTOUR..... 5520
- EX INTERMEDIATE CONTOUR..... 5364
- EX INDEX CONTOUR..... 5365
- DIRECTION OF FLOW..... ←
- PROJECT BOUNDARY/PROPERTY LINE..... ———
- ROW..... ———
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY..... - - - - -
- CUT/FILL LINE..... ——— CUT ——— FILL
- INTERIM/FINAL INLET PROTECTION..... IP
- INITIAL/INTERIM SILT FENCE..... SF
- INITIAL/INTERIM CONCRETE WASHOUT AREA..... CWA
- INITIAL/INTERIM VEHICLE TRACKING CONTROL..... VTC
- INITIAL/INTERIM STABILIZED STAGING AREA..... SSA
- INITIAL/INTERIM ROCK SOCKS..... RS
- INITIAL/INTERIM ROCK CHECK DAM..... CD
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN..... TSB
- FINAL SEEDING AND MULCHING..... SM
- FINAL TURF REINFORCEMENT MAT (VMAX SC250 OR APPROVED EQUIVALENT)..... TRM



CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

TEMPORARY SEDIMENT BASINS

SEE TABLE BELOW FOR MIN. DIMENSIONS. REFERENCE DETAIL SHEETS FOR FURTHER INFORMATION

LOCATION	TEMPORARY SEDIMENT BASIN SIZING (SEE DETAILS)						
	TRIBUTARY AREA (AC)	TRIBUTARY DISTURBED AREA (AC)	MIN. STORAGE VOLUME (CF) ¹	MIN. BASIN BOTTOM LENGTH (FT)	MIN. BASIN BOTTOM WIDTH (FT)	SPILLWAY CREST LENGTH (FT)	HOLE DIAMETER (IN)
TSB 1 (Pond G14b)	40.6	6.8	41486	74	37	22	1-3/16
TSB 2 (Pond G18)	25.5	4.3	26079	74	37	22	1-3/16
TSB 3 (Pond G19)	27.6	3.8	25715	74	37	22	1-3/16

¹ 3600 CF/AC DISTURBED TRIBUTARY AREA + 500 CF/AC UNDISTURBED

PREPARED BY:

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

CLIENT:
 FALCON LATIGO, LLC
 5350 S. ROSLYN ST. STE #400
 ENGLEWOOD, CO 80111-2125
 (303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
 EL PASO COUNTY
 FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY: TDM
 DRAWN BY: GES
 CHECKED BY: TDM
 FILE NAME: 21820-01GC1

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

DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

CONESTOGA TR.
GRADING &
ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
 DRAWING NO.

EC-3

PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers • Surveyors
 101 SAWATCH ST. #100
 COLORADO SPRGS, COLORADO 80903
 CONTACT: TIM D. MCCONNELL, P.E.
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CLIENT:
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GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
 EL PASO COUNTY
 FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY: TDM
 DRAWN BY: GES
 CHECKED BY: TDM
 FILE NAME: 21820-01GC2

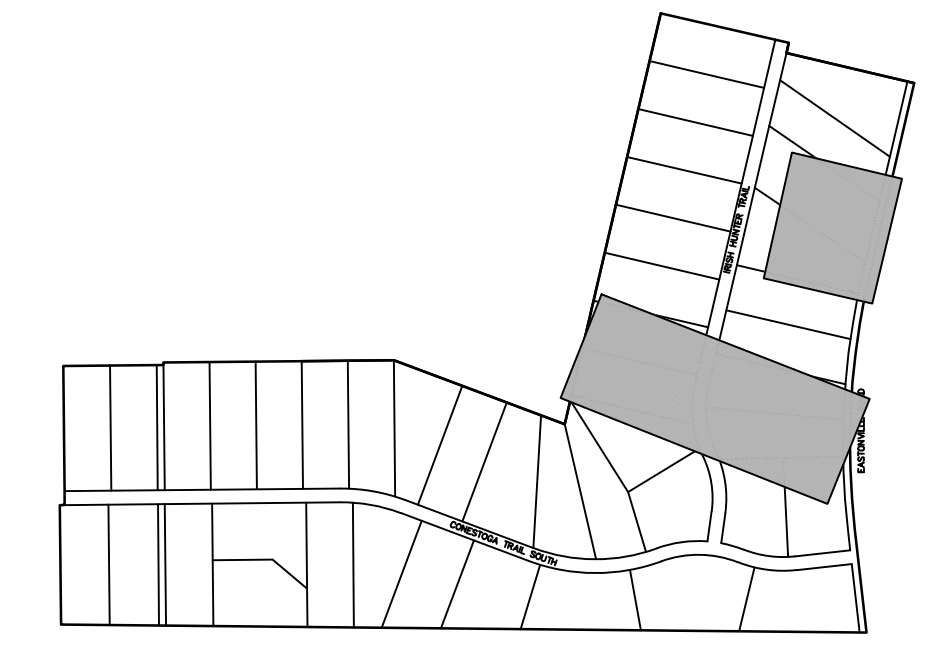
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

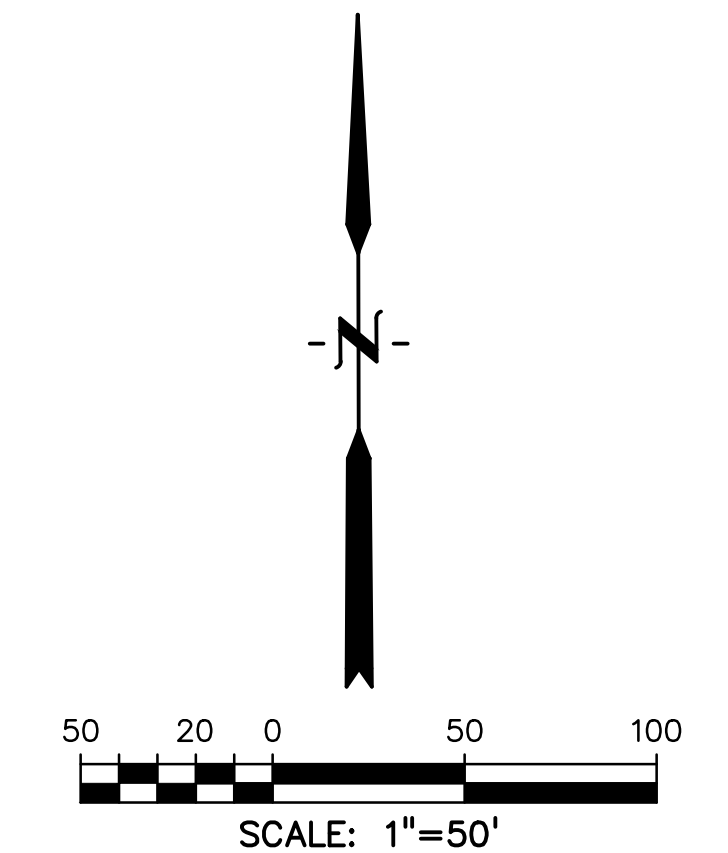
POND G18 & G19 ERN CNTL PLAN

PROJECT NO. 21820-01CSCV
 DRAWING NO.

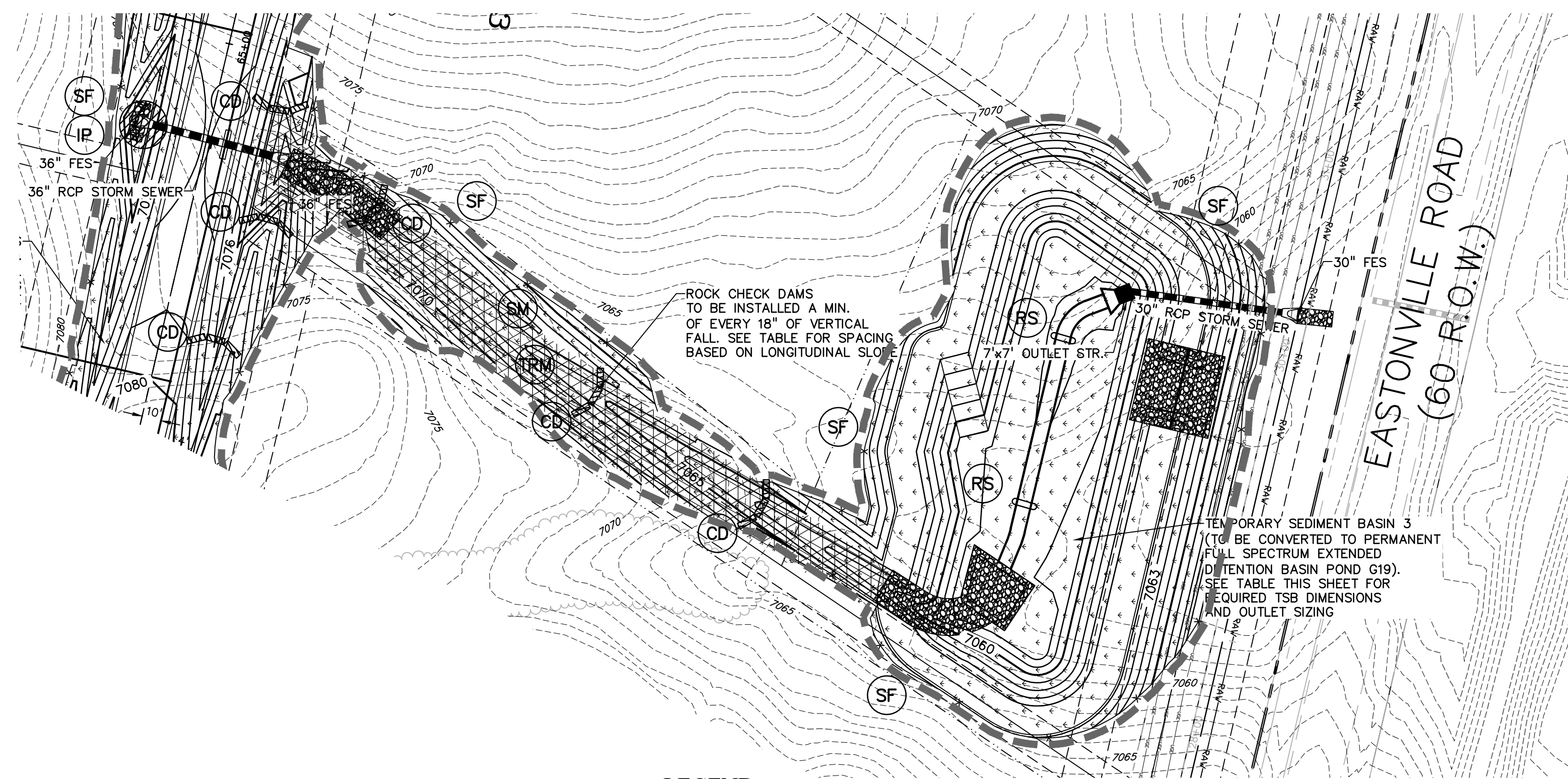
EC-5



KEY MAP
 NO SCALE



- NOTES:**
- EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
 - STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
 - THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
 - THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
 - DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
 - ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
- BMP PHASING:**
- INITIAL/INTERIM**
- INSTALL VTC
 - INSTALL CWA
 - ESTABLISH SSA & STOCKPILE LOCATIONS
 - INSTALL CONSTRUCTION FENCE
 - INSTALL SILT FENCE
 - INSTALL ROUGH CUT STREET CONTROL
 - INSTALL SEDIMENT BASINS
 - INSTALL SWALES
 - INSTALL CHECK DAMS
 - INSTALL INLET/OUTLET PROTECTION
- FINAL**
- INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
 - REMOVE ALL TEMPORARY BMPs AFTER FINAL STABILIZATION HAS BEEN REACHED.



LEGEND

- | | | | |
|---|------|--|-----|
| PROPOSED INTERMEDIATE CONTOUR..... | 5522 | INITIAL/INTERIM CONCRETE WASHOUT AREA..... | CWA |
| PROPOSED INDEX CONTOUR..... | 5520 | INITIAL/INTERIM VEHICLE TRACKING CONTROL..... | VTC |
| EX INTERMEDIATE CONTOUR..... | 5364 | INITIAL/INTERIM STABILIZED STAGING AREA..... | SSA |
| EX INDEX CONTOUR..... | 5365 | INITIAL/INTERIM ROCK SOCKS..... | RS |
| DIRECTION OF FLOW..... | ← | INITIAL/INTERIM ROCK CHECK DAM..... | CD |
| PROJECT BOUNDARY/PROPERTY LINE..... | --- | INITIAL/INTERIM TEMPORARY SEDIMENT BASIN..... | TSB |
| ROW..... | --- | INITIAL/INTERIM SEEDING AND MULCHING..... | SM |
| LIMITS OF DISTURBANCE/
CONSTRUCTION SITE BOUNDARY..... | --- | FINAL TURF REINFORCEMENT MAT.....
(VMAX SC250 OR APPROVED EQUIVALENT) | TRM |
| CUT/FILL LINE..... | --- | | |
| INTERIM/FINAL INLET PROTECTION..... | IP | | |
| INITIAL/INTERIM SILT FENCE..... | SF | | |

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

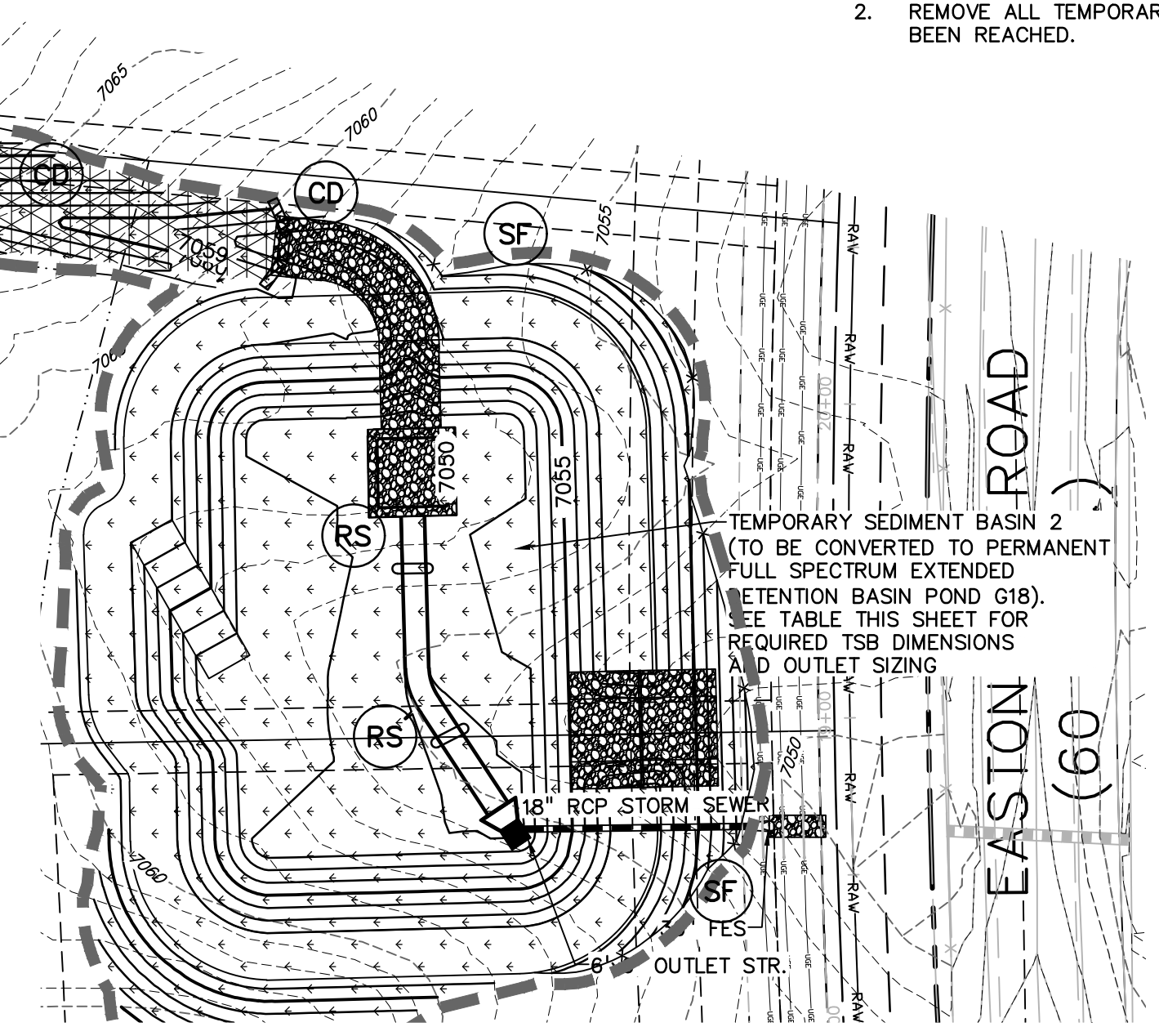
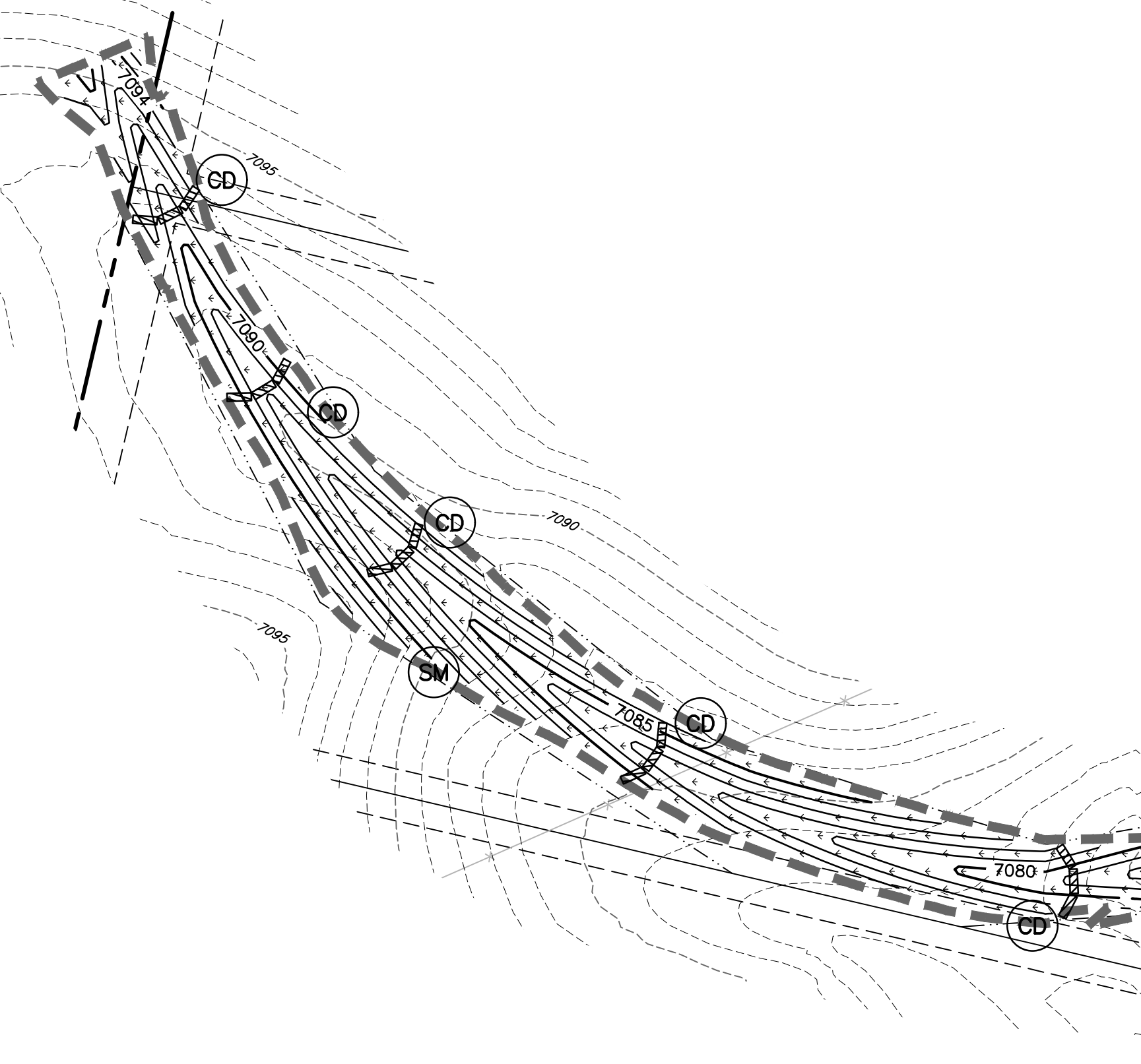
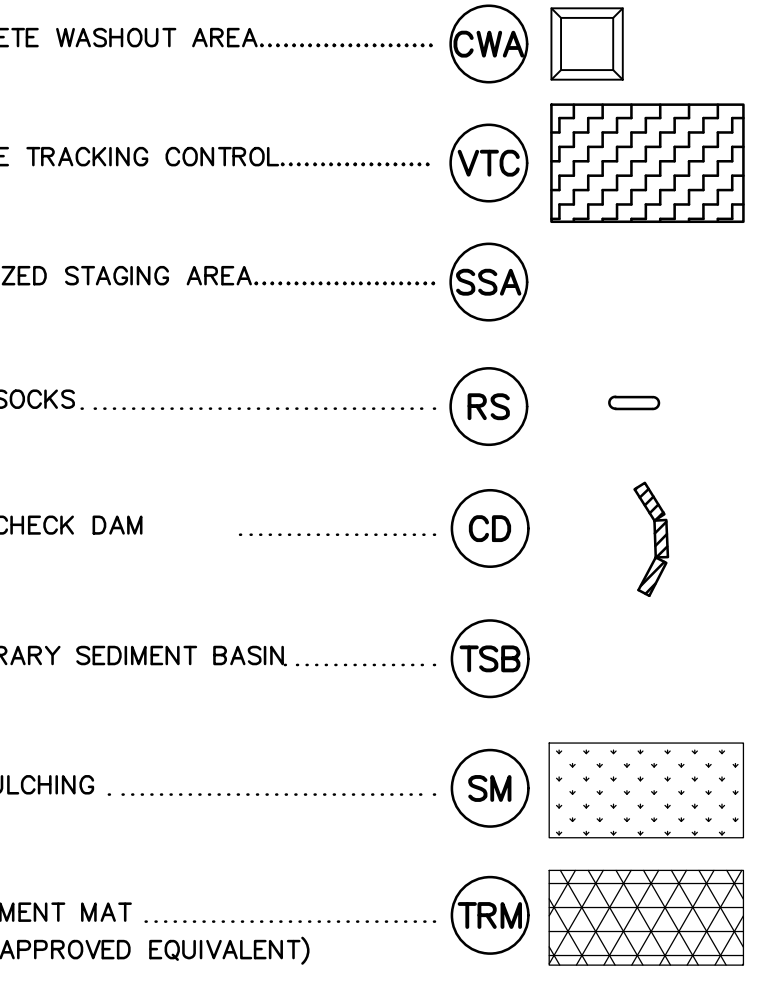
TEMPORARY SEDIMENT BASINS

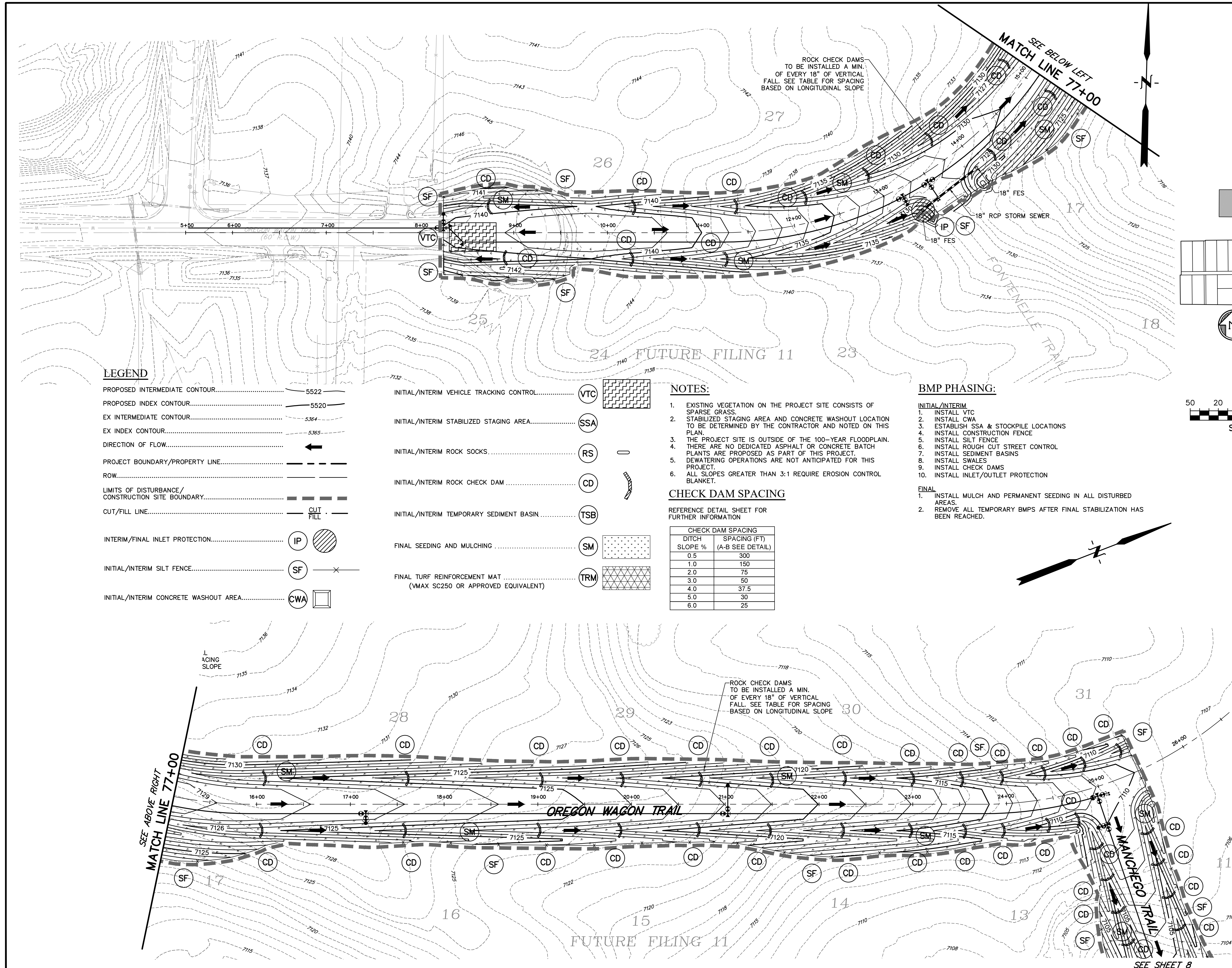
SEE TABLE BELOW FOR MIN. DIMENSIONS. REFERENCE DETAIL SHEETS FOR FURTHER INFORMATION

TEMPORARY SEDIMENT BASIN SIZING (SEE DETAILS)

LOCATION	TRIBUTARY AREA (AC)	TRIBUTARY DISTURBED AREA (AC)	MIN. STORAGE VOLUME (CF)*	MIN. BASIN BOTTOM LENGTH (FT)	MIN. BASIN BOTTOM WIDTH (FT)	SPILLWAY CREST LENGTH (FT)	HOLE DIAMETER (IN)
TSB 1 (Pond G14b)	40.6	6.8	41486	74	37	22	1-3/16
TSB 2 (Pond G18)	25.5	4.3	26079	74	37	22	1-3/16
TSB 3 (Pond G19)	27.6	3.8	25715	74	37	22	1-3/16

* 3600 CF/AC DISTURBED TRIBUTARY AREA + 500 CF/AC UNDISTURBED





LEGEND

- PROPOSED INTERMEDIATE CONTOUR..... 5522
- PROPOSED INDEX CONTOUR..... 5520
- EX INTERMEDIATE CONTOUR..... 5364
- EX INDEX CONTOUR..... 5365
- DIRECTION OF FLOW..... ←
- PROJECT BOUNDARY/PROPERTY LINE..... - - - - -
- ROW..... ————
- LIMITS OF DISTURBANCE/
CONSTRUCTION SITE BOUNDARY..... - - - - -
- CUT/FILL LINE..... ———— CUT FILL
- INTERIM/FINAL INLET PROTECTION..... (IP) [Symbol]
- INITIAL/INTERIM SILT FENCE..... (SF) [Symbol]
- INITIAL/INTERIM CONCRETE WASHOUT AREA..... (CWA) [Symbol]

- INITIAL/INTERIM VEHICLE TRACKING CONTROL..... (VTC) [Symbol]
- INITIAL/INTERIM STABILIZED STAGING AREA..... (SSA) [Symbol]
- INITIAL/INTERIM ROCK SOCKS..... (RS) [Symbol]
- INITIAL/INTERIM ROCK CHECK DAM..... (CD) [Symbol]
- INITIAL/INTERIM TEMPORARY SEDIMENT BASIN..... (TSB) [Symbol]
- FINAL SEEDING AND MULCHING..... (SM) [Symbol]
- FINAL TURF REINFORCEMENT MAT..... (TRM) [Symbol]

NOTES:

1. EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
2. STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
3. THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN. THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
4. DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
5. ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

BMP PHASING:

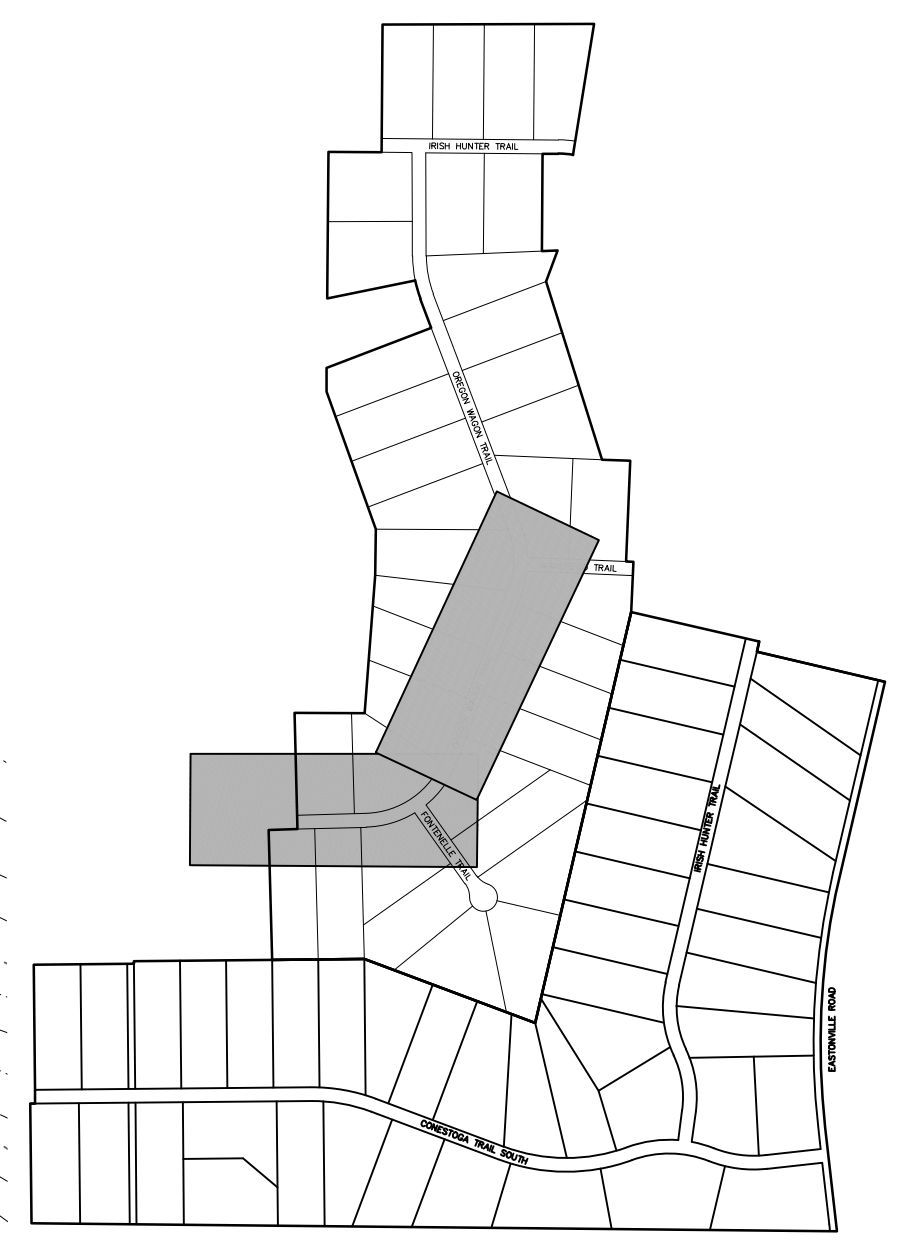
- INITIAL/INTERIM**
1. INSTALL VTC
 2. INSTALL CWA
 3. ESTABLISH SSA & STOCKPILE LOCATIONS
 4. INSTALL CONSTRUCTION FENCE
 5. INSTALL SILT FENCE
 6. INSTALL ROUGH CUT STREET CONTROL
 7. INSTALL SEDIMENT BASINS
 8. INSTALL SWALES
 9. INSTALL CHECK DAMS
 10. INSTALL INLET/OUTLET PROTECTION
- FINAL**
1. INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
 2. REMOVE ALL TEMPORARY BMPs AFTER FINAL STABILIZATION HAS BEEN REACHED.

ROCK CHECK DAMS TO BE INSTALLED A MIN. OF EVERY 18" OF VERTICAL FALL. SEE TABLE FOR SPACING BASED ON LONGITUDINAL SLOPE

ROCK CHECK DAMS TO BE INSTALLED A MIN. OF EVERY 18" OF VERTICAL FALL. SEE TABLE FOR SPACING BASED ON LONGITUDINAL SLOPE

MATCH LINE 77+00
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCH LINE 77+00



SCALE: 1"=50'

PREPARED BY:

DREXEL, BARRELL & CO.
Engineers-Surveyors
101 SAWATCH ST. #100
COLORADO SPGS, COLORADO 80903
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(719)266-0887
COLORADO SPRINGS • LAFAYETTE

CLIENT:
FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY: TDM
DRAWN BY: GES
CHECKED BY: TDM
FILE NAME: 21820-01GC3

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

DRAWING SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

OREGON WAGON TRAIL GRADING & ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
DRAWING NO.

EC-6

PREPARED BY:

DREXEL, BARRELL & CO.
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 (719)260-0887
 COLORADO SPRINGS • LAFAYETTE

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 FALCON LATIGO, LLC
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 ENGLEWOOD, CO 80111-2125
 (303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
 EL PASO COUNTY
 FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25
DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GC4

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

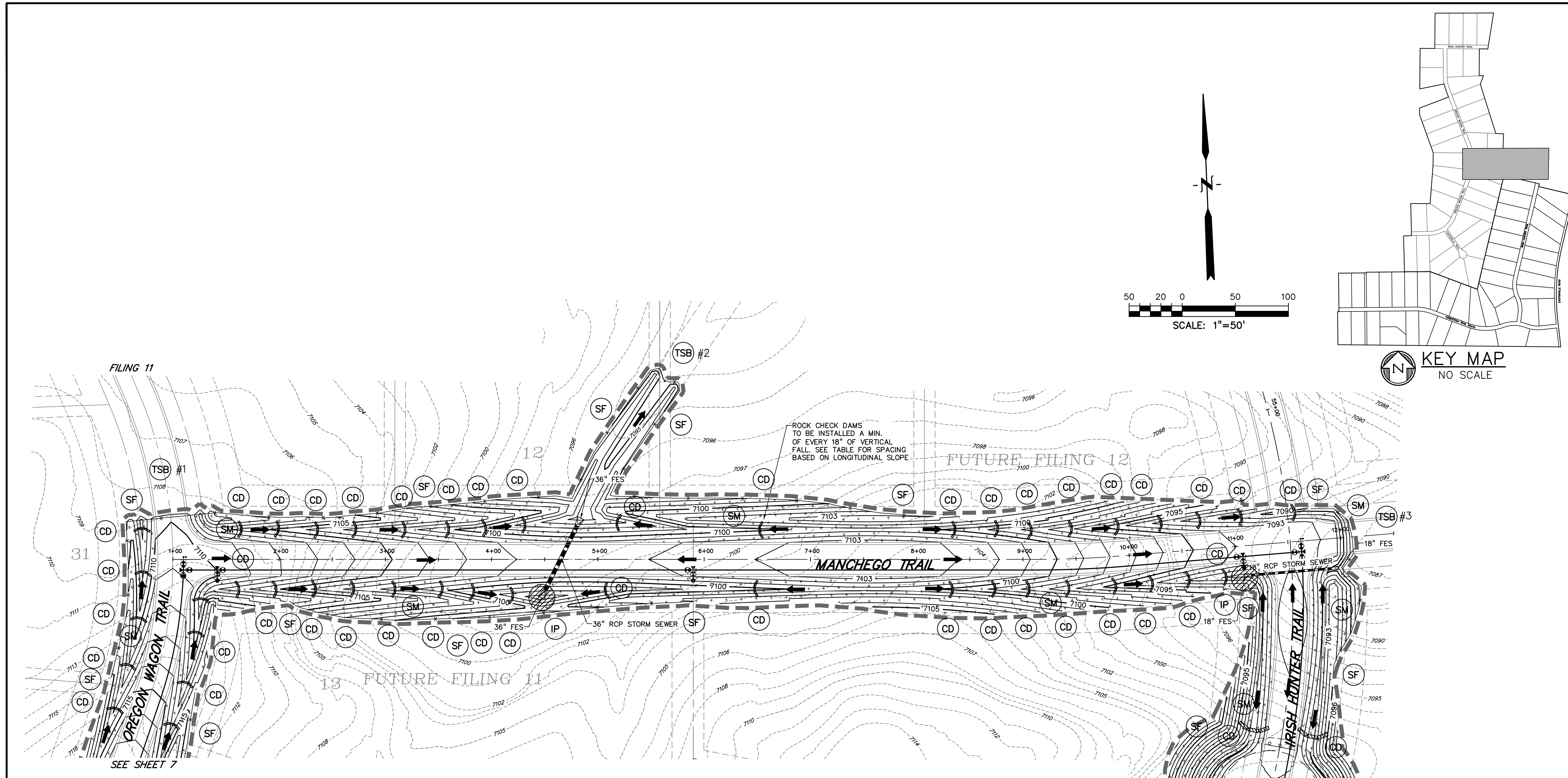
DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

MANCHEGO TR.
TRAIL GRADING &
ERSN CNTL PLAN

PROJECT NO. 21820-01CSCV
 DRAWING NO.

EC-7

SHEET: 8 OF 18



LEGEND

PROPOSED INTERMEDIATE CONTOUR.....	5522	INITIAL/INTERIM VEHICLE TRACKING CONTROL.....	(VTC)
PROPOSED INDEX CONTOUR.....	5520	INITIAL/INTERIM STABILIZED STAGING AREA.....	(SSA)
EX INTERMEDIATE CONTOUR.....	5364	INITIAL/INTERIM ROCK SOCKS.....	(RS)
EX INDEX CONTOUR.....	5365	INITIAL/INTERIM ROCK CHECK DAM.....	(CD)
DIRECTION OF FLOW.....	←	INITIAL/INTERIM TEMPORARY SEDIMENT BASIN.....	(TSB)
PROJECT BOUNDARY/PROPERTY LINE.....	---	FINAL SEEDING AND MULCHING.....	(SM)
ROW.....	---	FINAL TURF REINFORCEMENT MAT.....	(TRM)
LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY.....	---	INITIAL/INTERIM CONCRETE WASHOUT AREA.....	(CWA)
CUT/FILL LINE.....	— CUT — — FILL —		
INTERIM/FINAL INLET PROTECTION.....	(IP)		
INITIAL/INTERIM SILT FENCE.....	(SF)		

NOTES:

- EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
- STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
- THE PROJECT SITE IS OUTSIDE OF THE 100-YEAR FLOODPLAIN.
- THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
- DEWATERING OPERATIONS ARE NOT ANTICIPATED FOR THIS PROJECT.
- ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

NOTES:

- EXISTING VEGETATION ON THE PROJECT SITE CONSISTS OF SPARSE GRASS.
- STABILIZED STAGING AREA AND CONCRETE WASHOUT LOCATION TO BE DETERMINED BY THE CONTRACTOR AND NOTED ON THIS PLAN.
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- ALL SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.

BMP PHASING:

INITIAL/INTERIM

- INSTALL VTC
- INSTALL CWA
- ESTABLISH SSA & STOCKPILE LOCATIONS
- INSTALL CONSTRUCTION FENCE
- INSTALL SILT FENCE
- INSTALL ROUGH CUT STREET CONTROL PLANTS ARE PROPOSED AS PART OF THIS PROJECT.
- INSTALL SEDIMENT BASINS
- INSTALL SWALES
- INSTALL CHECK DAMS
- INSTALL INLET/OUTLET PROTECTION

FINAL

- INSTALL MULCH AND PERMANENT SEEDING IN ALL DISTURBED AREAS.
- REMOVE ALL TEMPORARY BMPS AFTER FINAL STABILIZATION HAS BEEN REACHED.

CHECK DAM SPACING

REFERENCE DETAIL SHEET FOR FURTHER INFORMATION

DITCH SLOPE %	SPACING (FT) (A-B SEE DETAIL)
0.5	300
1.0	150
2.0	75
3.0	50
4.0	37.5
5.0	30
6.0	25

LEGEND

PROPOSED INTERMEDIATE CONTOUR..... 5522

PROPOSED INDEX CONTOUR..... 5520

EX INTERMEDIATE CONTOUR..... 5364

EX INDEX CONTOUR..... 5365

DIRECTION OF FLOW..... ←

PROJECT BOUNDARY/PROPERTY LINE..... ---

ROW..... ---

LIMITS OF DISTURBANCE/
CONSTRUCTION SITE BOUNDARY..... ---

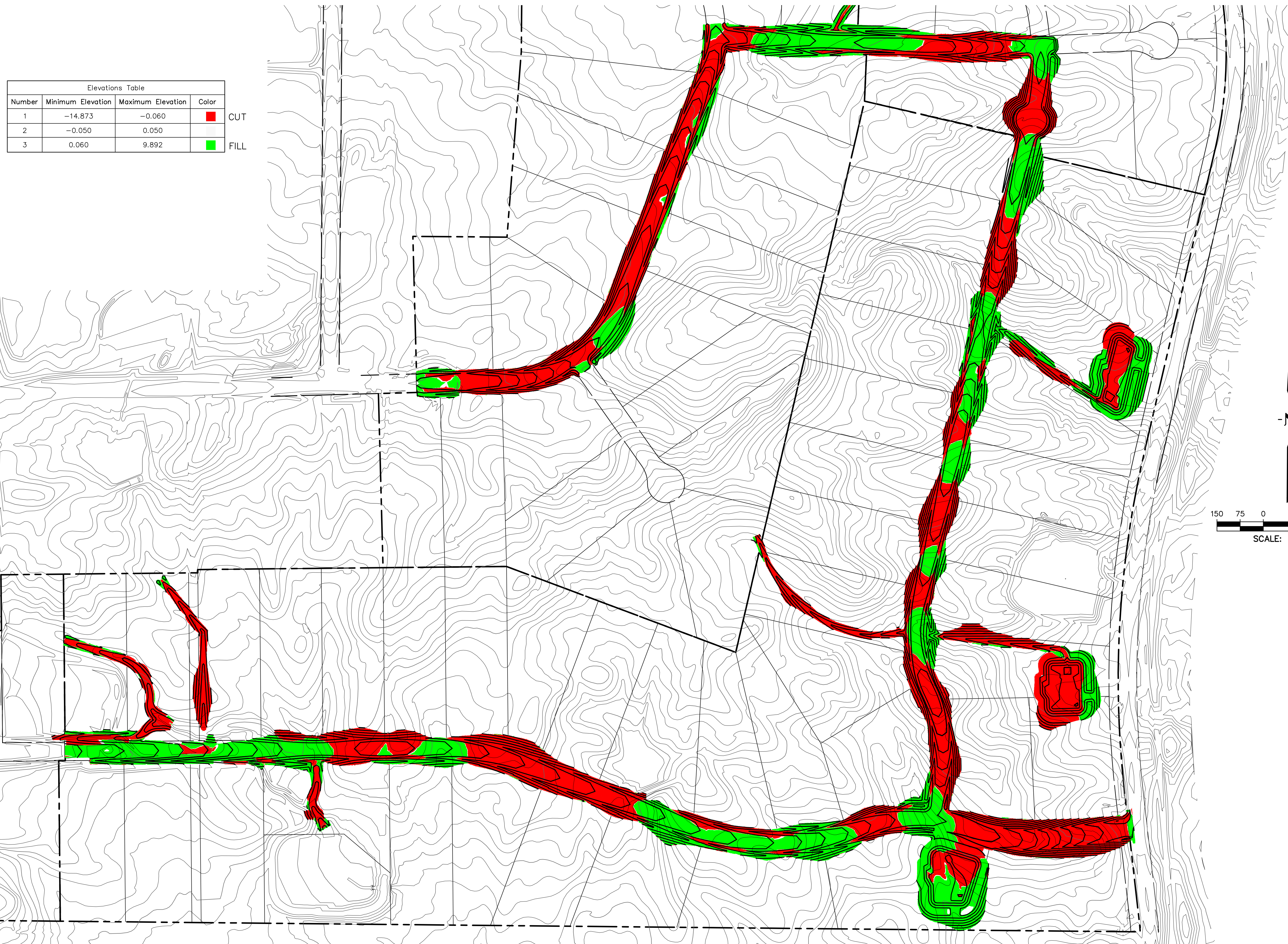
CUT/FILL LINE..... — CUT —
— FILL —

INTERIM/FINAL INLET PROTECTION..... (IP)

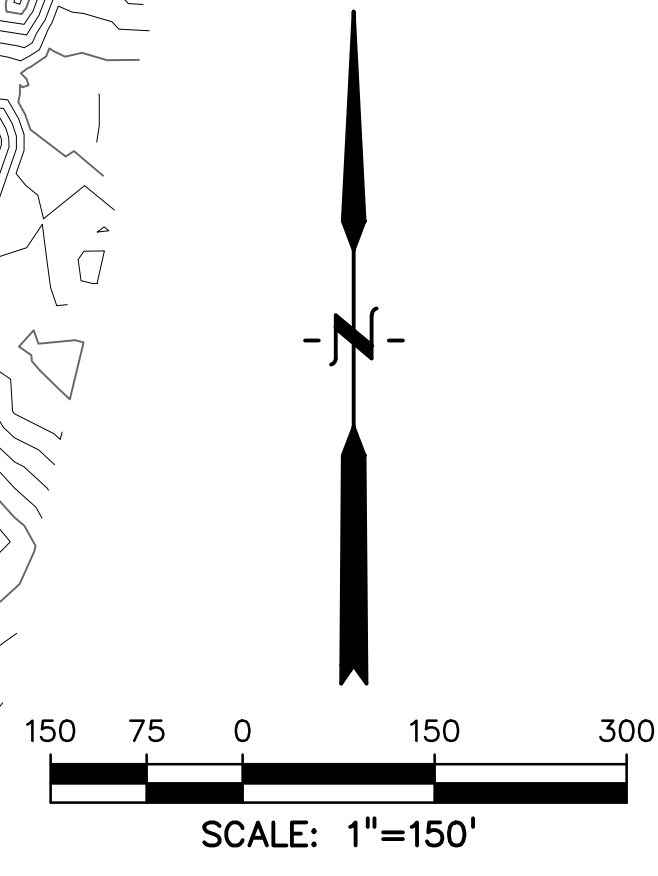
INITIAL/INTERIM SILT FENCE..... (SF)

INITIAL/INTERIM CONCRETE WASHOUT AREA..... (CWA)

SF2421



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-14.873	-0.060	■ CUT
2	-0.050	0.050	■
3	0.060	9.892	■ FILL



PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers • Surveyors
 101 SAWATCH ST. #100
 COLORADO SPGS, COLORADO 80903
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GRADING & EROSION CONTROL PLANS FOR:
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ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25
DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	21820-01GCS

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

DRAWING SCALE:
 HORIZONTAL: 1" = 150'
 VERTICAL: N/A

CUT-FILL
PLAN
 PROJECT NO. 21820-01GCSV
 DRAWING NO.

EC-8

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY:	KGV
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	21820-01DT3

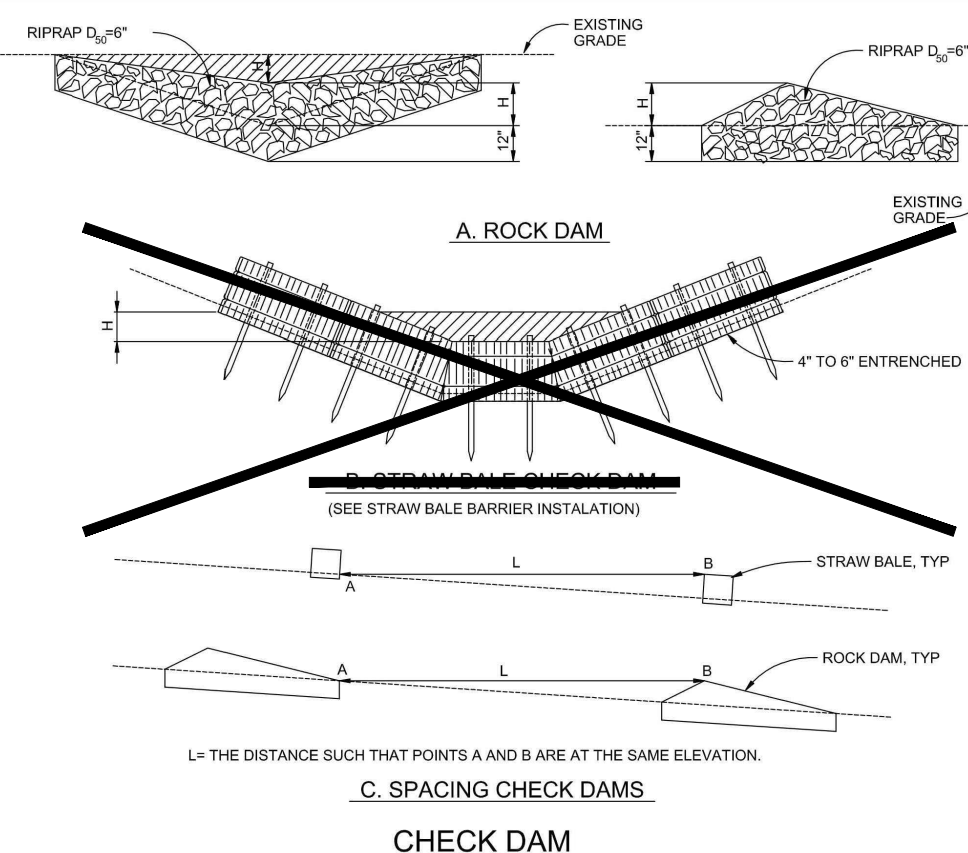
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXEL, BARRELL & CO.

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

GRADING & EROSION CONTROL DETAILS

PROJECT NO. 21820-01CSCV
 DRAWING NO.

DT1



Check Dam Notes

INSTALLATION REQUIREMENTS

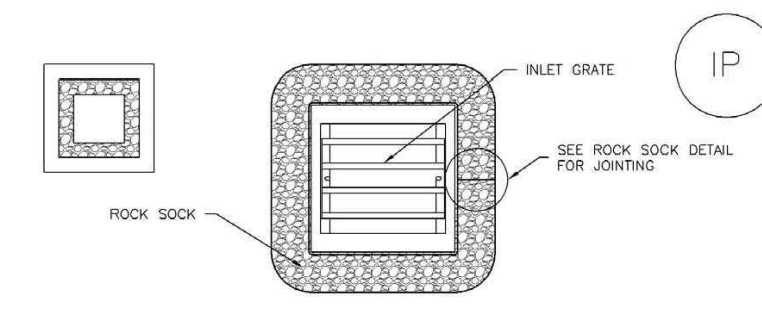
- STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SB-1.
- THE 4" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.
- REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
- REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
- ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 10% OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
- CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
- WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
- REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
- ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 10% OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
- CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
- WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

City of Colorado Springs Stormwater Quality Figure CD-1 Check Dam Construction Detail and Maintenance Requirements

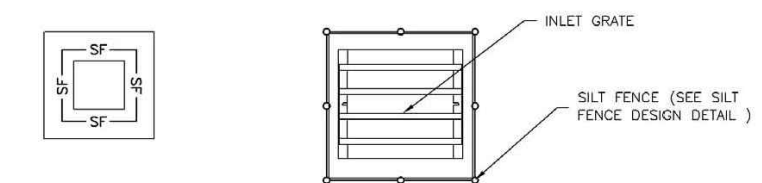
Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- STRAW MATS/SEDIMENT CONTROL LOSS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



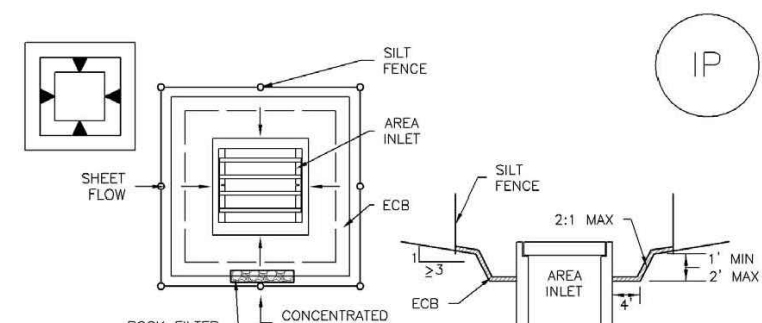
IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

- SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
- STRAW MATS/SEDIMENT CONTROL LOSS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-5

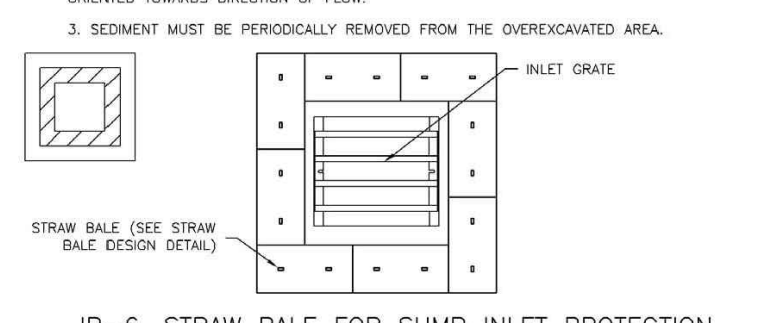
SC-6 Inlet Protection (IP)



IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

- THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
- WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARD DIRECTION OF FLOW.
- SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.



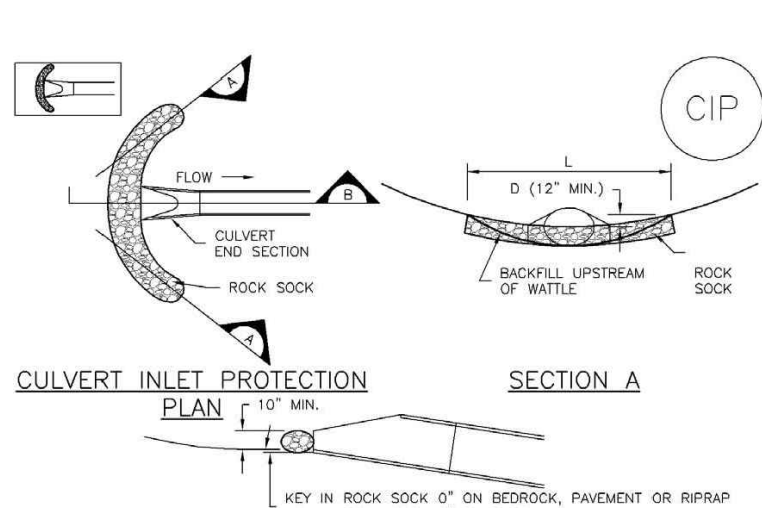
IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

- SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES THOROUGHLY ABUTTING ONE ANOTHER.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Inlet Protection (IP) SC-6



CIP-1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CULVERT INLET PROTECTION.
- SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 5% THE HEIGHT OF THE ROCK SOCK.
- CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

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SC-6 Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

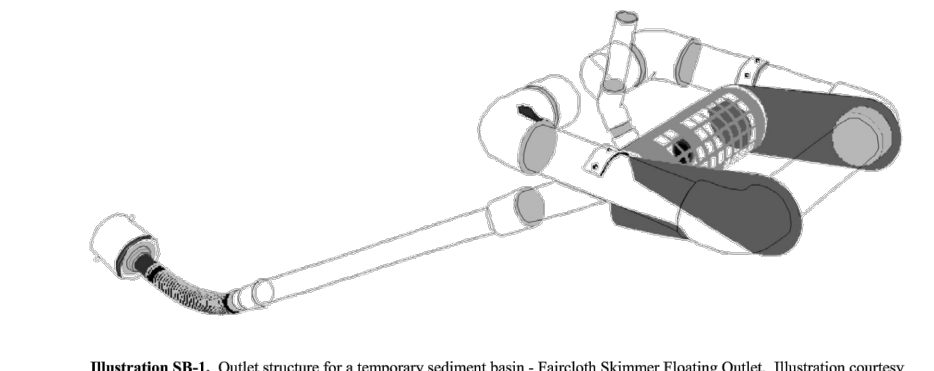
- SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP-1, IP-2, IP-3, IP-4, IP-5, IP-6).
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A SIGNIFICANT/URGENT EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDFD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/3 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED. UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDS AND MULCHES, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Sediment Basin (SB) SC-7



Outlet Protection and Spillways: Consider all flow paths for runoff leaving the basin, including protection at the typical point of discharge as well as overtopping.

- Outlet Protection:** Outlet protection should be provided where the velocity of flow will exceed the maximum permissible velocity of the material of the waterway into which discharge occurs. This may require the use of a riprap apron at the outlet location and/or other measures to keep the waterway from eroding.
- Emergency Spillway:** Provide a stabilized emergency overflow spillway for rainstorms that exceed the capacity of the sediment basin volume and its outlet. Protect basin embankments from erosion and overtopping. If the sediment basin will be converted to a permanent detention basin, design and construct the emergency spillway(s) as required for the permanent facility. If the sediment basin will not become a permanent detention basin, it may be possible to substitute a heavy polyvinyl membrane or properly bedded rock cover to line the spillway and downstream embankment, depending on the height, slope, and width of the embankments.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-3

SC-7 Sediment Basin (SB)

Maintenance and Removal

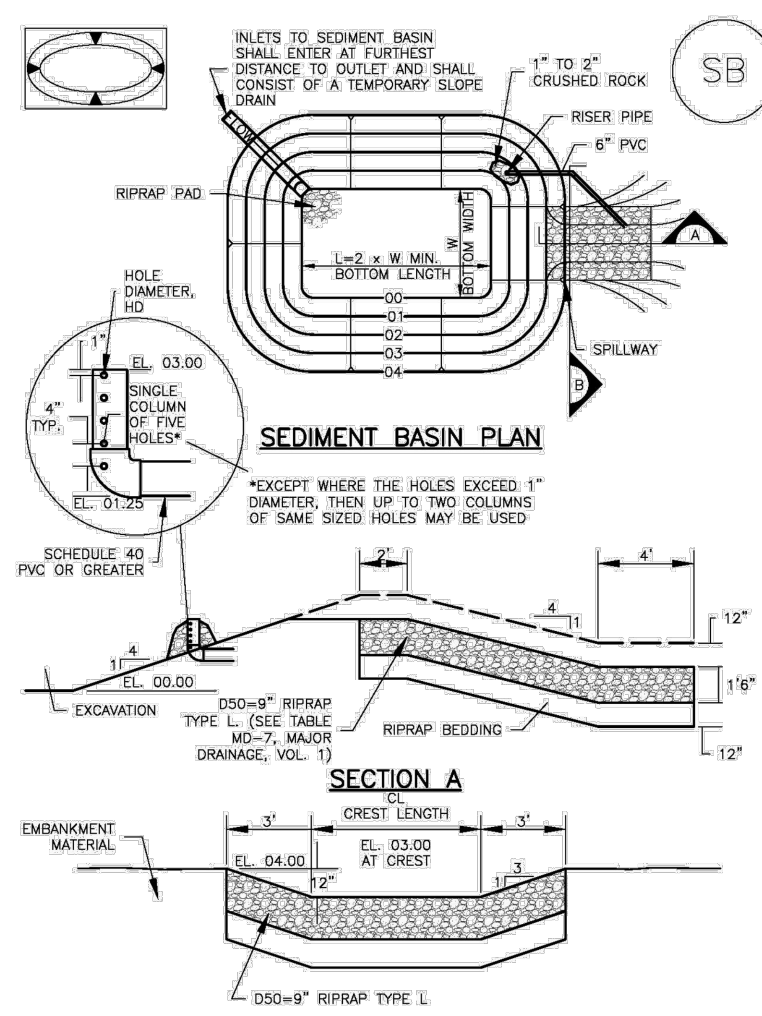
Maintenance activities include the following:

- Dredge sediment from the basin, as needed to maintain BMP effectiveness, typically when the design storage volume is no more than one-third filled with sediment.
- Inspect the sediment basin embankments for stability and seepage.
- Inspect the inlet and outlet of the basin, repair damage, and remove debris. Remove, clean and replace the gravel around the outlet on a regular basis to remove the accumulated sediment within it and keep the outlet functioning.
- Be aware that removal of a sediment basin may require dewatering and associated permit requirements.
- Do not remove a sediment basin until the upstream area has been stabilized with vegetation.

Final disposition of the sediment basin depends on whether the basin will be converted to a permanent post-construction stormwater basin or whether the basin area will be returned to grade. For basins being converted to permanent detention basins, remove accumulated sediment and reconfigure the basin and outlet to meet the requirements of the final design for the detention facility. If the sediment basin is not to be used as a permanent detention facility, fill the excavated area with soil and stabilize with vegetation.

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Sediment Basin (SB) SC-7



SEDIMENT BASIN PLAN

SECTION A

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SC-7 Sediment Basin (SB)

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN	Basin Bottom Width (ft)	Spillway Crest Length (ft)	Hole Diameter (ft)
1	12 1/2	2	1 1/2
2	15	3	1 3/4
3	18	4	2
4	21	5	2 1/4
5	24	6	2 1/2
6	27	7	2 3/4
7	30	8	3
8	33	9	3 1/4
9	36	10	3 1/2
10	39	11	3 3/4
11	42	12	4
12	45	13	4 1/4
13	48	14	4 1/2
14	51	15	4 3/4
15	54	16	5

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-USE/DEVELOPMENT ACTIVITY THAT RELIES ON OR BEGINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1556.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASINS FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

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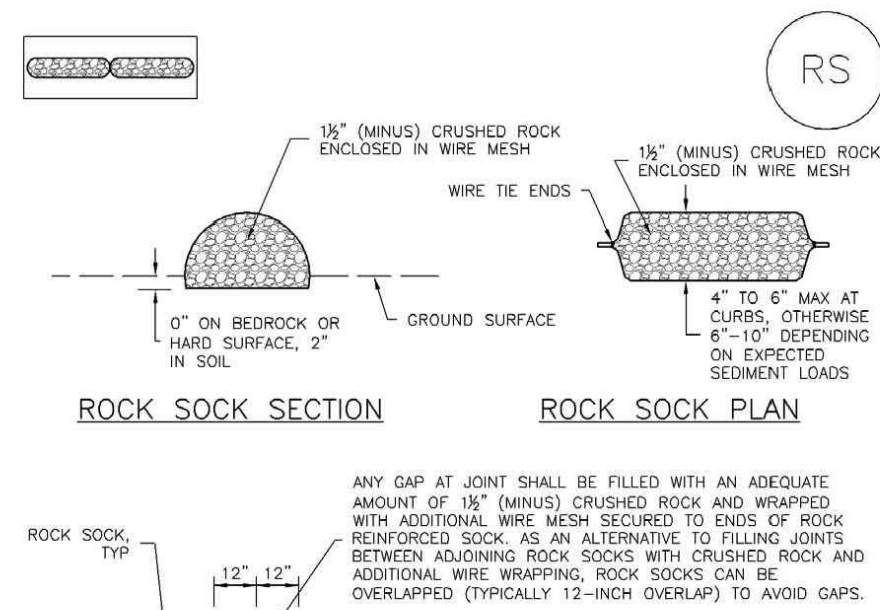
Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (0.3m) FEEL BELOW THE SPILLWAY CREST.
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHES, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

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SC-5 Rock Sock (RS)



ROCK SOCK SECTION

ROCK SOCK PLAN

ROCK SOCK JOINTING

ROCK SOCK INSTALLATION NOTES

RS-1. ROCK SOCK PERIMETER CONTROL

Rock Sock (RS) SC-5

ROCK SOCK MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCH OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. USDCD NEITHER RECOMMENDS NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS. HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

EC-9 Rough Cut Street Control (RCS)

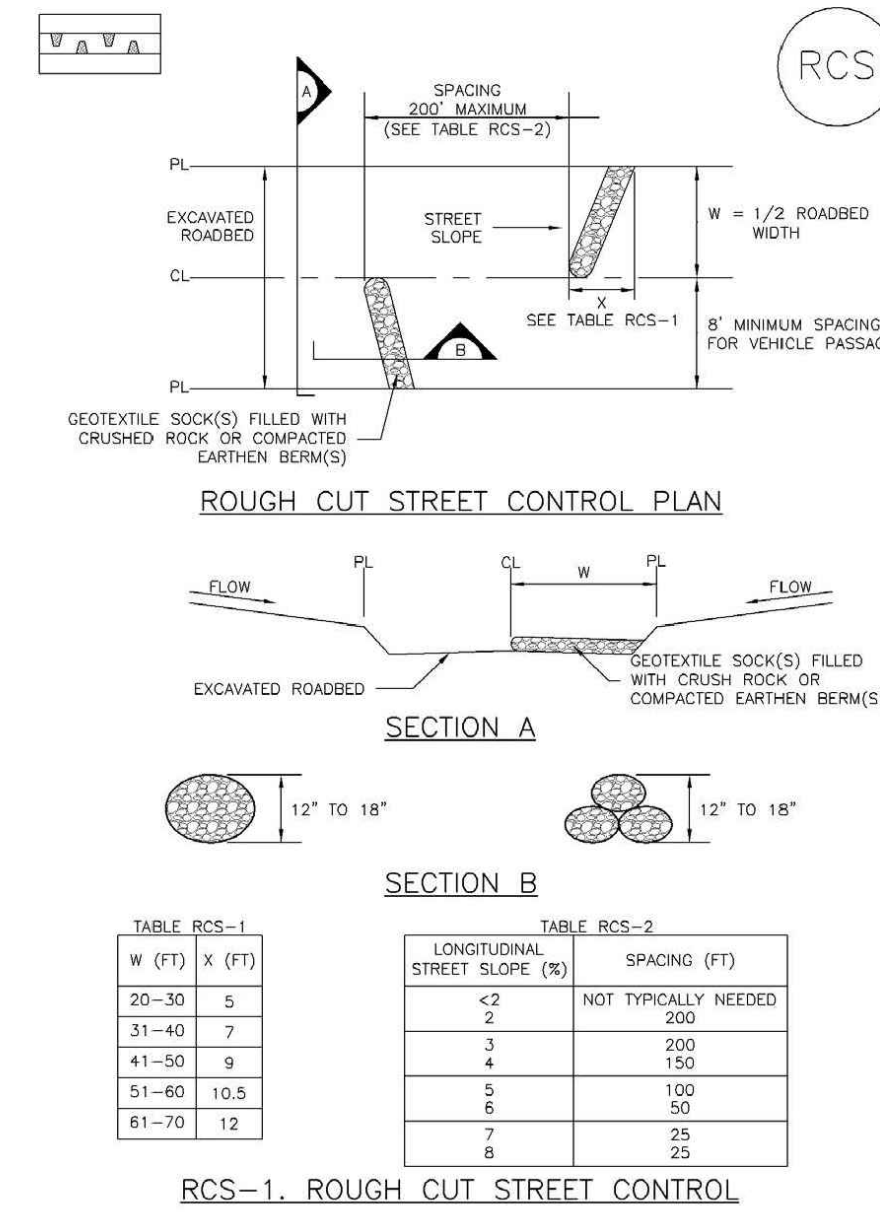


TABLE RCS-1

W (FT)	X (FT)
20-26	5
31-40	7
41-50	9
51-60	10.5
61-70	12

TABLE RCS-2

LONGITUDINAL STREET SLOPE (%)	SPACING (FT)
<2	NOT TYPICALLY NEEDED
2	200
3	200
4	150
5	100
6	50
7	25
8	25

RCS-1. ROUGH CUT STREET CONTROL

Rough Cut Street Control (RCS) EC-9

ROUGH CUT STREET CONTROL INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF ROUGH CUT STREET CONTROL MEASURES.
- ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION ROADS THAT HAVE NOT RECEIVED ROAD BASE.

ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

TECHNICAL BULLETIN

VMax® TRMs



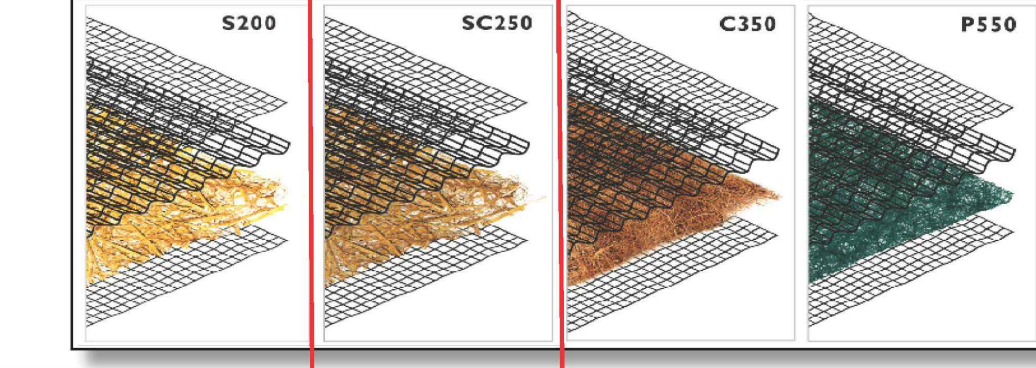
A Permanent Turf Reinforcement Mat Solution for Every Design

The VMax system of permanent TRMs are ideal for high-flow channels, streambanks, shorelines, and other areas needing permanent vegetation reinforcement and protection from water and wind. Our VMax TRMs combine a three-dimensional matting and a fiber matrix material for all-terrain erosion protection, vegetation establishment and reinforcement. The VMax TRMs are available with various performance capabilities and support reinforced vegetative lining development from germination to maturity.

VMax® Unique Three-Dimensional Design

North American Green VMax TRMs are each designed to maximize performance through all development phases of a reinforced vegetative lining. The corrugated matting structure lends a true reinforcement zone for vegetation entanglement, especially compared to flat net mats. The unique design of the corrugated matting also helps to create a shear plane that deflects flowing water away from the soil surface. And the incorporation of a fiber matrix supplements the 3-D structure by creating a ground cover that blocks soil movement and aids in vegetation establishment.

Four VMax Turf Reinforcement Mats Designed for Every Level of Performance



Matrix Fiber	S200 Straw	70% Straw / 30% Coconut	100% Coconut	100% Polypropylene
Netting Types	Top and Bottom light weight UV-stabilized PP, Crimped PP center net	Top and Bottom UV-stabilized PP, Crimped PP center net	Top and Bottom heavy weight UV-stabilized PP, Crimped PP center net	Top and Bottom ultra heavy weight UV-stabilized PP, Crimped PP center net
Typical Slope Applications (H:V)	1:1 and greater	1:1 and greater	1:1 and greater	1:1 and greater
Channel Shear Stress Threshold	Unvegetated: 2.3 psf Vegetated: 10.0 psf	Unvegetated: 3.0 psf Vegetated: 12.0 psf	Unvegetated: 3.2 psf Vegetated: 12.0 psf	Unvegetated: 4.0 psf Vegetated: 14.0 psf
Channel Velocity Threshold	Unvegetated: 8.5 fps Vegetated: 18 fps	Unvegetated: 9.5 fps Vegetated: 15 fps	Unvegetated: 10.5 fps Vegetated: 20 fps	Unvegetated: 12.5 fps Vegetated: 25 fps

NORTH AMERICAN GREEN

Selected product that will work for all swales above 5 ft/s. Has maximum of 15 ft/s.

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(800) 772-2040 | www.nagreen.com

VMax® TRMs cont.

Selecting the Right VMax TRM

Choosing the right VMax TRM can be made easy by utilizing our Erosion Control Materials Design Software (www.vmaxtrms.com), which allows users to input project specific parameters for channels, slopes, spillways, and more and ensures proper evaluation, design, and product selection in return. Our four VMax TRMs offer varying performance values, fiber matrix longevities, and price points, to help you meet your project specific goals.

Twist Pin + VMax TRM - an Ideal Installation

Utilizing the VMax TRMs in conjunction with Twist Pin fastener technology can result in an installed system that pushes TRM performance with increased factors of safety. The combined system has been shown to have superior pullout strength performance up to 200 lbs when compared to installation with traditional wire staples and pins. This is up to 10x the pullout resistance of wire staples and pins. Additionally, the use of the twist pins provides intimate contact between the TRM and the soil, and has been shown to be effective in a wide range of soil types. With a quick and easy installation using an electric drill and custom chuck, the TRM+Twist Pin system can eliminate time and labor costs from day 1 through project release.

VMax turf reinforcement mat being installed on a channel application (top right), twist pins installed with TRMs can have increased system performance and pullout resistance (middle right), twist pins are available in 6" and 12" lengths and two soil configurations designed for harder or soft soil types (lower right).

Comparison of common TRM fasteners based on pullout performance and typical application (below).

Fastener	Pullout Resistance (lb)	Comment
6" Round Top Pin	14	Best for hardened soils where other fasteners are damaged during installation.
6" Regular U-staple	42	Standard fastener that develops additional pullout as legs may deflect and add friction during installation.
12" Pin with Washer	35	Standard fastener good for soils where staples can be bent frequently and are too difficult to install.
18" Pin with Washer	27	Standard fastener good for soils where staples are frequently bent and 12" straight pins fail to provide sufficient pullout because surface soil is wet or loose.
Twist Pin	170	Upgraded fastener that provides high pullout and ideal for loose or soft soils.

NORTH AMERICAN GREEN

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(800) 772-2040 | www.nagreen.com

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ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25
DESIGNED BY:	KGV
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	21820-01DT3

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

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

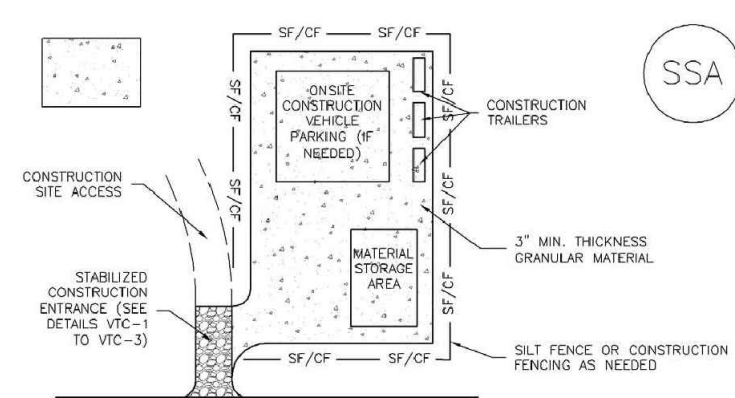
GRADING & EROSION CONTROL DETAILS

PROJECT NO. 21820-01CSCV
DRAWING NO.

DT2

SHEET: 11 OF 18

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA MAINTENANCE NOTES

1. SEE PLAN VIEW FOR -LOCATION OF STAGING AREAS. -CONSTRUCTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703 AGGREGATE OR 4" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REPLULSED OR REGRADDED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNDESIRABLE LOADINGS.
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

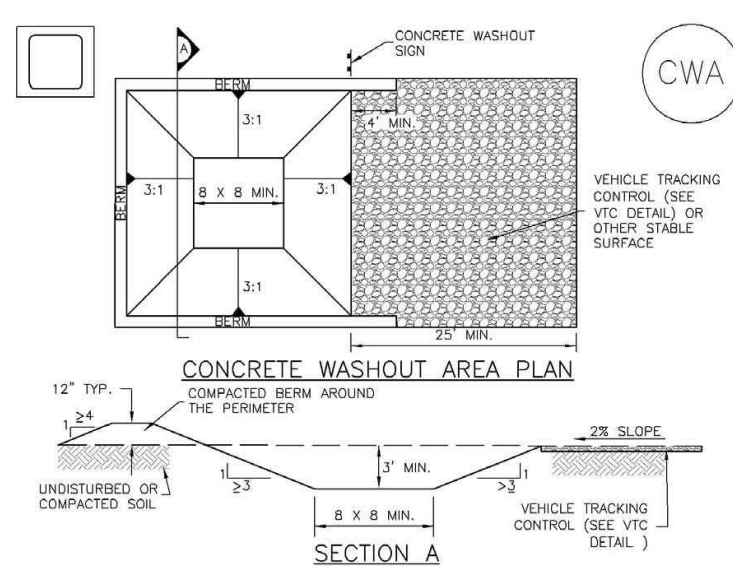
NOTE: MANY JURISDICTIONS PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM COLORADO COUNTY, COLORADO, NOT AVAILABLE IN AIRSOS)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR -CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 100' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREPARED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" BY 3" DEEP WITHIN ONE FEET OF THE PERIMETER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SUBSIDIARIES SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM 4:1 SLOPES.
6. VEHICLE TRACKING PITS SHALL BE SLOPED 2% TOWARD THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA AND UNDERLINED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

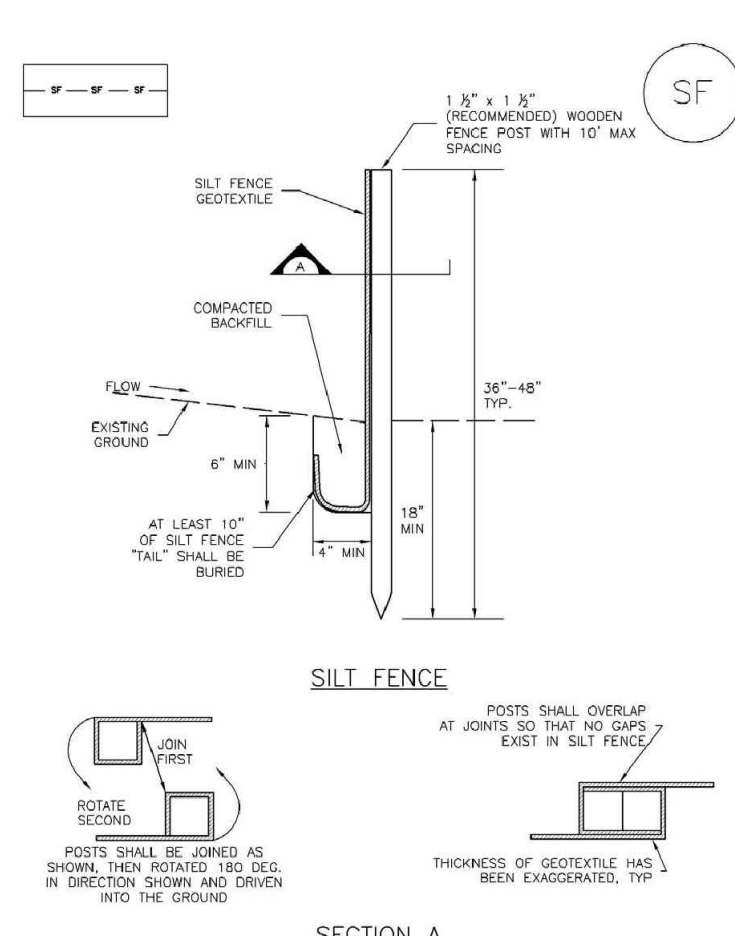
1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASH. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2".
5. CONCRETE WASHOUT WATER, WASTES RESIDUE OF CONCRETE AND ALL OTHER SOLIDS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
7. WHEN THE CWA IS REMOVED, COVER THE DESTABILIZED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM COLORADO COUNTY, COLORADO, NOT AVAILABLE IN AIRSOS)

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Silt Fence (SF) SC-1



SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PENETRATION. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVEN FEET (2.1 M) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR FLOODING AND SEEPAGE.
2. A MINIMUM 6" BY 6" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, SHOVELS, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPER JACK" OR BY WHEEL ROLLING. COMPACTOR SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICABLE GAP BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "JUNCTION." THE "JUNCTION" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENT IS APPROXIMATELY 6".
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REPAIRED, ALL DESTABILIZED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM COLORADO COUNTY, COLORADO, NOT AVAILABLE IN AIRSOS)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

SC-1 Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PENETRATION. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVEN FEET (2.1 M) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR FLOODING AND SEEPAGE.
2. A MINIMUM 6" BY 6" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, SHOVELS, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPER JACK" OR BY WHEEL ROLLING. COMPACTOR SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICABLE GAP BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "JUNCTION." THE "JUNCTION" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

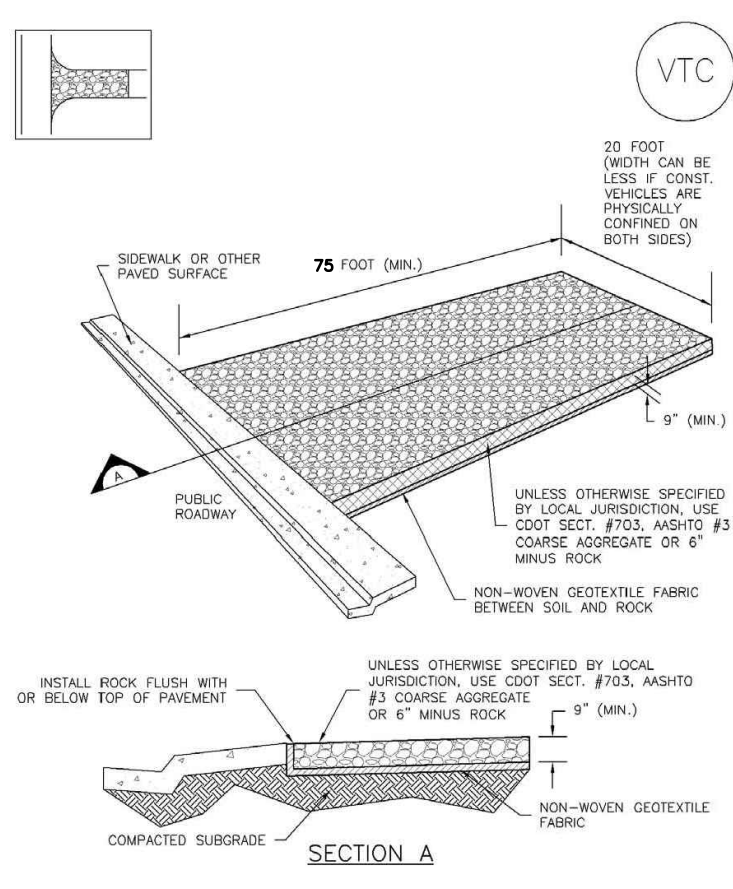
1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENT IS APPROXIMATELY 6".
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REPAIRED, ALL DESTABILIZED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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SF-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

VTC INSTALLATION NOTES

1. SEE PLAN VIEW FOR -VTC INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED VTC WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 100' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE VTC MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREPARED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE VTC SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. VTC SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" BY 3" DEEP WITHIN ONE FEET OF THE PERIMETER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SUBSIDIARIES SIDES AND BACK OF THE VTC SHALL HAVE MINIMUM 4:1 SLOPES.
6. VEHICLE TRACKING PITS SHALL BE SLOPED 2% TOWARD THE VTC.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE VTC AND UNDERLINED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE VTC TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

SM-4 Vehicle Tracking Control (VTC)

VTC MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REPLULSED OR REGRADDED AS NECESSARY TO THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO MAINTAIN A CONSISTENT BERM.
5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY BRUSHING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

TEMPORARY SEEDING NOTES

1. SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER OR LIME.
2. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
3. SEEDBED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1 AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
4. ANNUAL GRASSES LISTED IN THE TABLE BELOW ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
5. THE TABLE BELOW ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
6. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
7. ALL SEEDED AREAS ARE TO BE MULCHED.
8. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MULCHING NOTES

INSTALLATION REQUIREMENTS

1. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED-AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
2. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL.
3. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
4. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES) OR WITH A TACKIFIER.
5. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

MAINTENANCE REQUIREMENTS

6. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
7. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEDED.

SEEDING PLAN

NATIVE SEEDING MIX

SOIL PREPARATION, FERTILIZER, SEEDING, MULCHING AND MULCH TACKIFIER WILL BE REQUIRED FOR DISTURBED AREAS EXCLUDING THE RIGHT-OF-WAYS.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

COMMON NAME	SCIENTIFIC NAME	LBS PLS/ACRE
SAND BLUESTEM V. ELIDA	ANDROPOGON HALLII	2.0
WESTERN WHEATGRASS V. ARRIABA	PASCOPYRUM SMITHII	7.0
SIDEOATS GRAMA V. VAUGHN	BOUTELOUJA CURTIPENDULA	4.0
GALLETA V. VIVA (CARYOPHIS)	HILARIA JAMESII	1.0
LITTLE BLUESTEM V. PASTURA	SCHIZACHYRIUM SCOPARIUM	3.0
PRARIE SANDREED V. GASHEN	CALAMOVILA LONGIFOLIA	2.0
SWITCHGRASS V. NEBR 28	PANICUM VIRGATUM	1.0
BLANKETFLOWER	GALLARDIA ARISTATA	1.0
PRARIE CONEFLOWER	RATIBIDA COLUMINIFERA	0.5
BLUE FLAX	LINUM LEWISII	1.0
OATS	AVENA SATIVA	3.0
WINTER WHEAT	TRITICUM AESTIVUM	3.0
TOTAL/POUNDS/ACRE		28.5

FERTILIZER	RATE PER ACRE
NITROGEN	27
PHOSPHORUS (P205)	69

SEEDING APPLICATION: DRILL SEED 0.25"-0.5" INTO TOPSOIL. AREA NOT ACCESSIBLE TO A DRILL SEEDER AND SLOPES STEEPER THAN 2:1 SHALL BE HAND BROADCAST AT DOUBLE THE ABOVE SEED RATE AND RAKED AT 1/4 TO 1/2 INTO THE TOPSOIL.

MULCHING APPLICATION: 1 1/2 TONS CERTIFIED WEED FREE NATIVE HAY PER ACRE MECHANICALLY CRIMED IN TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.

PREPARED BY:

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

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:
LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25
DESIGNED BY:	KGV
DRAWN BY:	KGV
CHECKED BY:	TDH
FILE NAME:	21820-01DT3

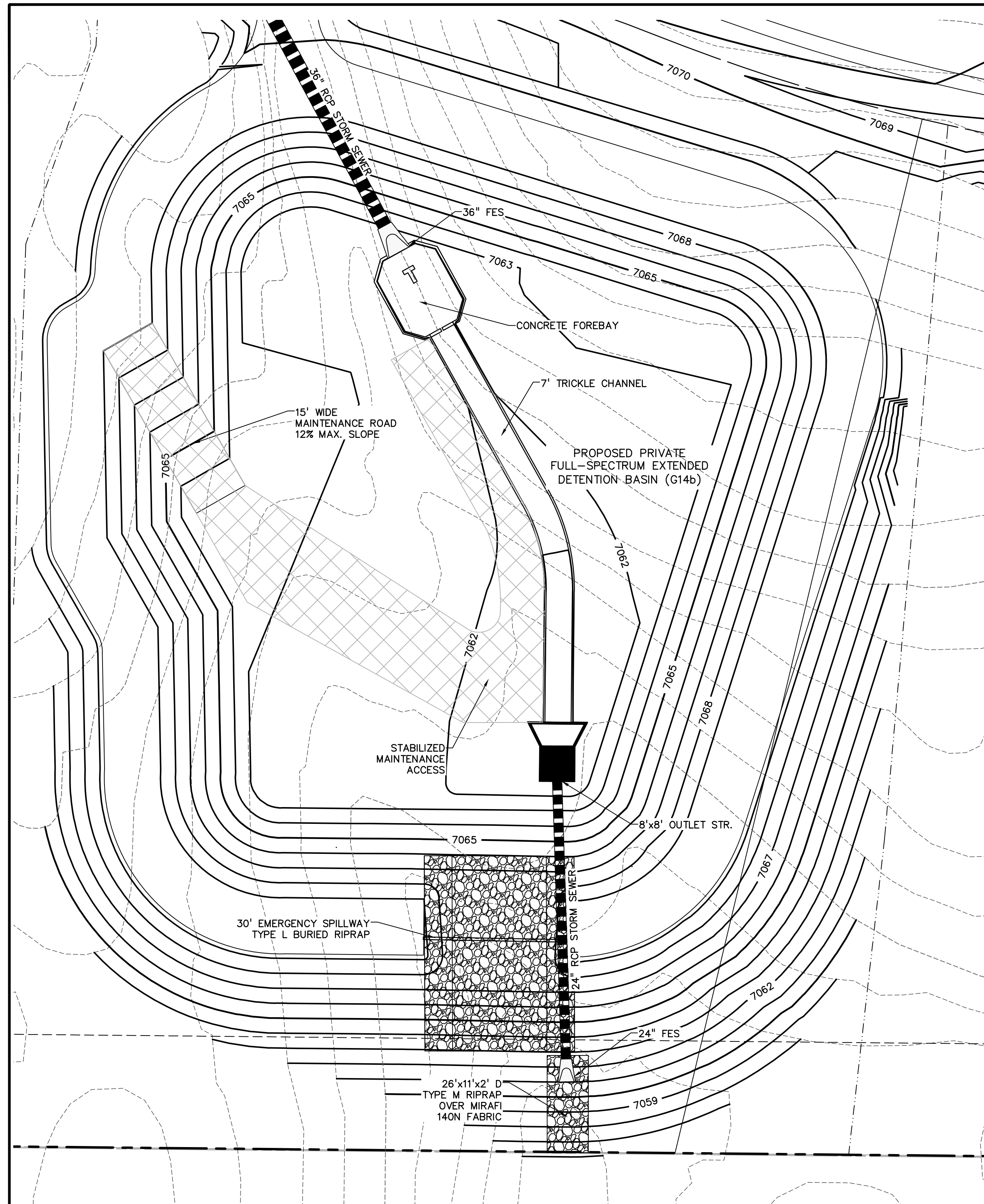
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXEL, BARRELL & CO.

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

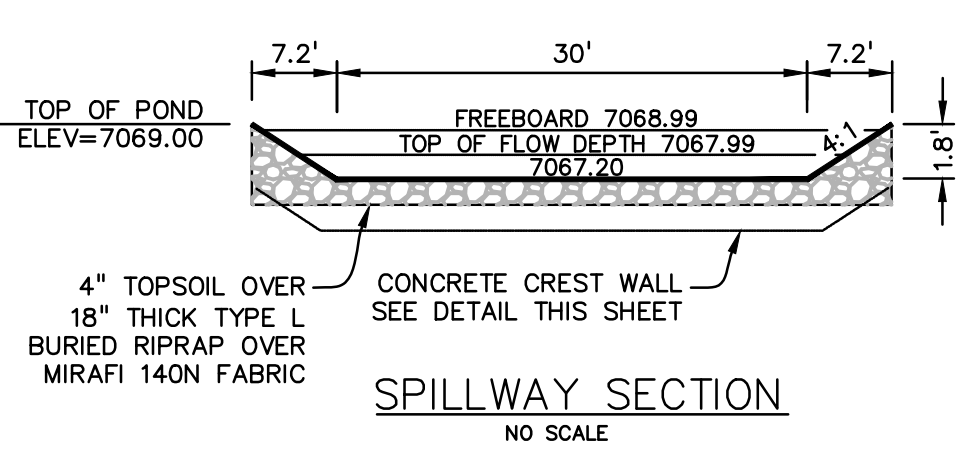
GRADING & EROSION CONTROL DETAILS

PROJECT NO. 21820-01CSCV
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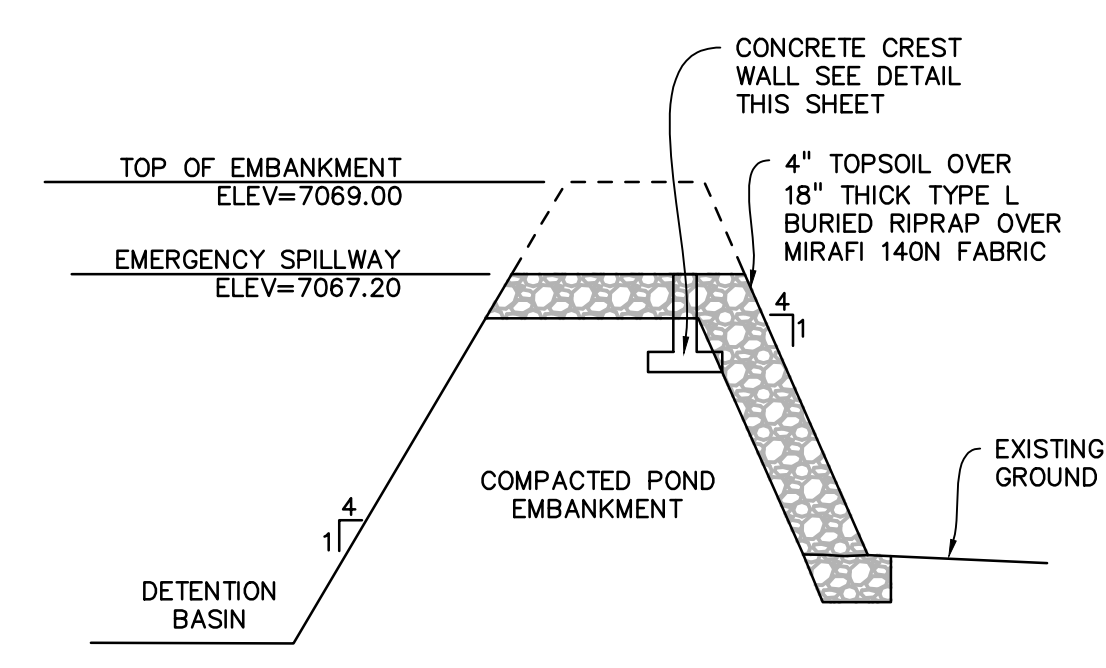
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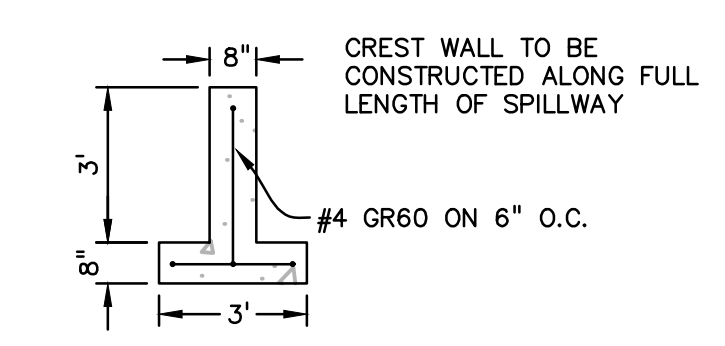
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SCALE: 1"=20'



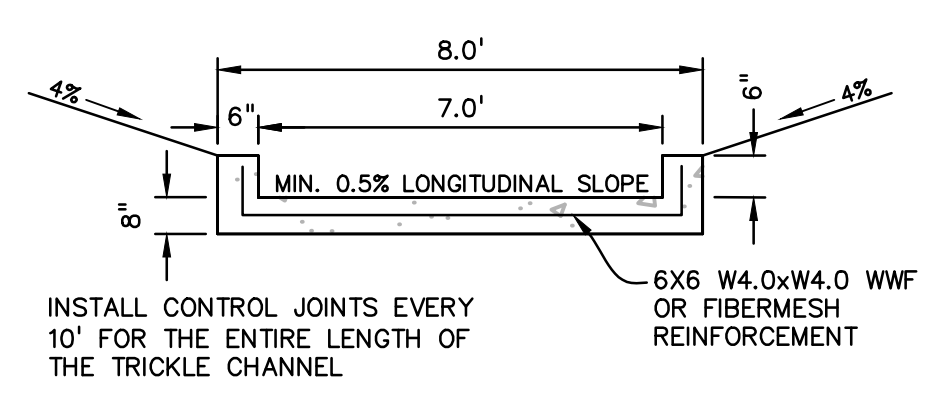
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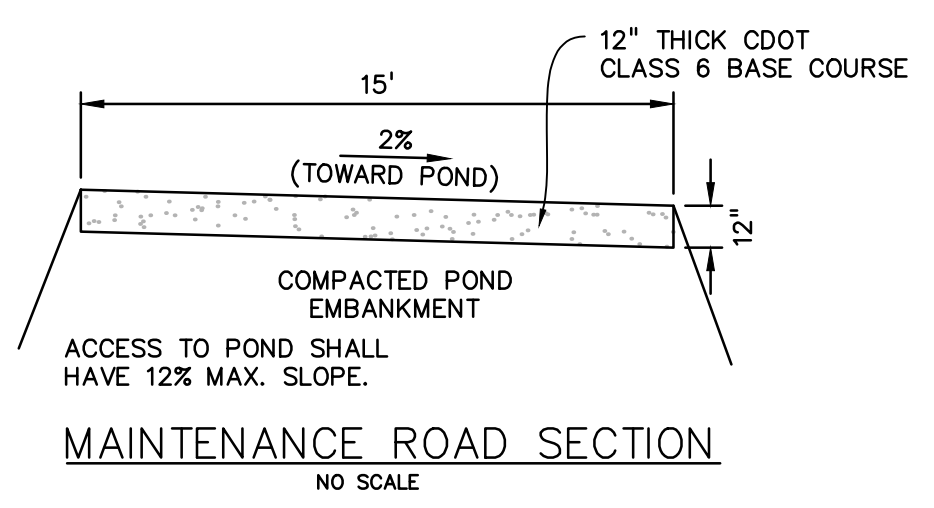
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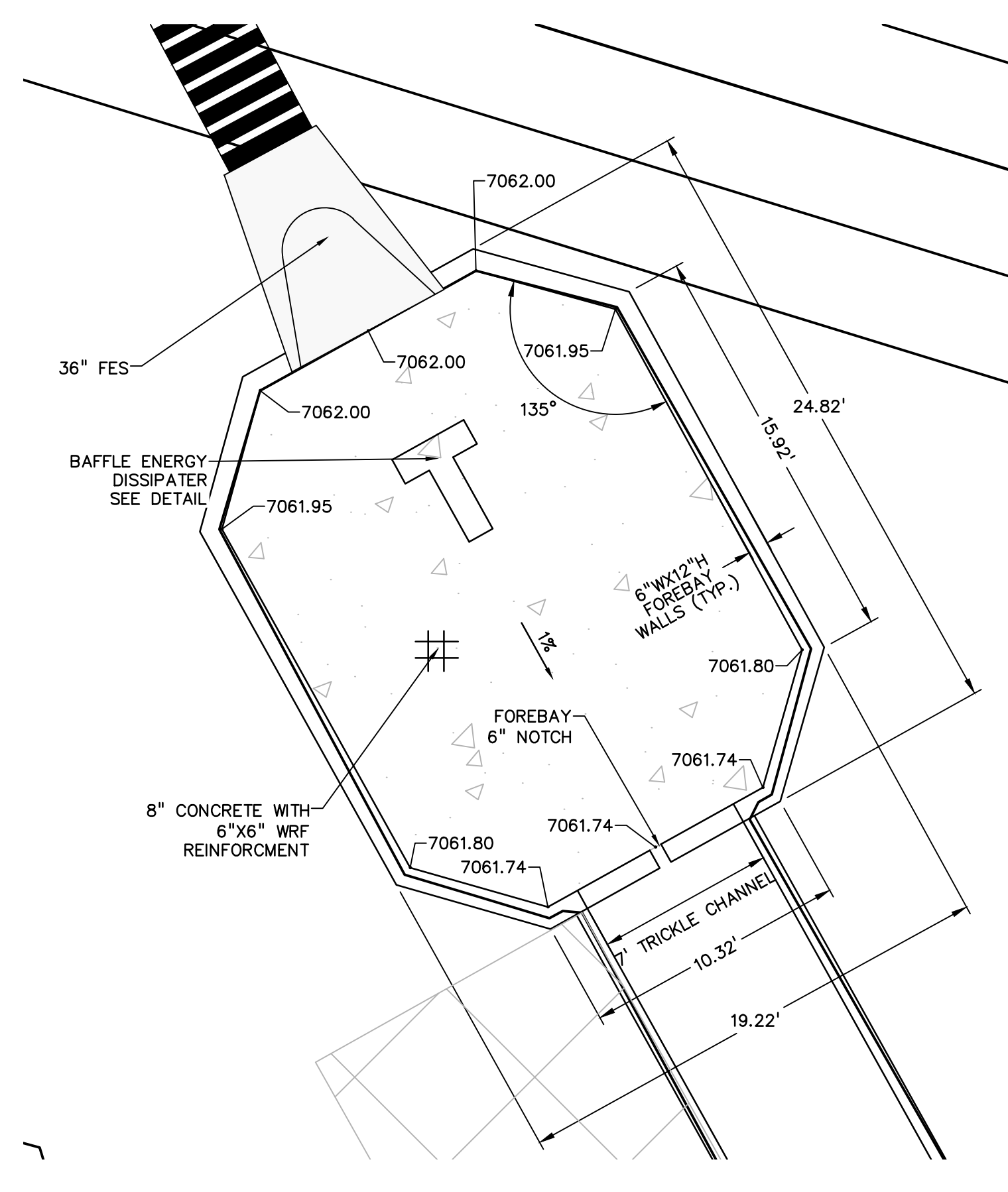
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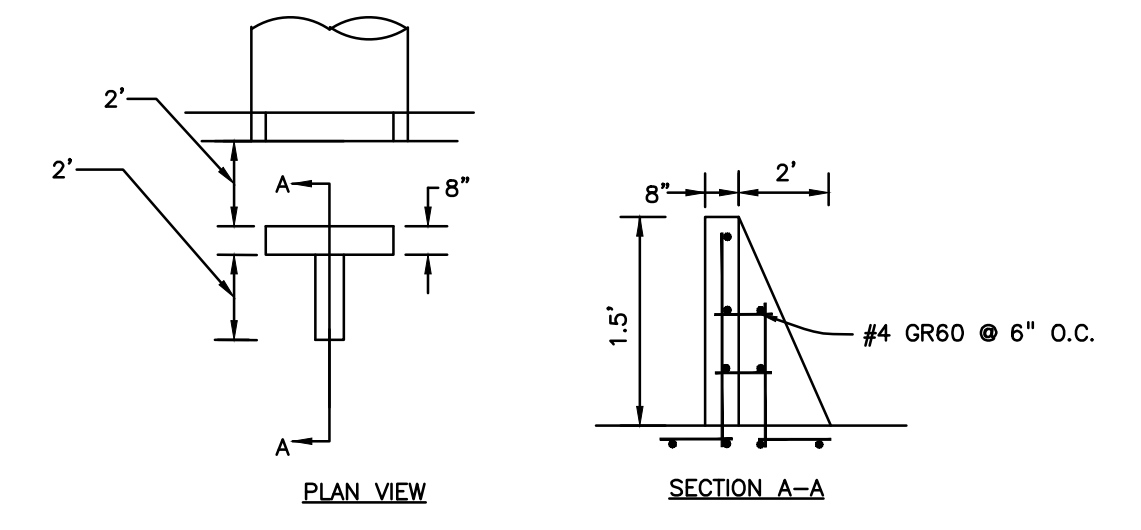
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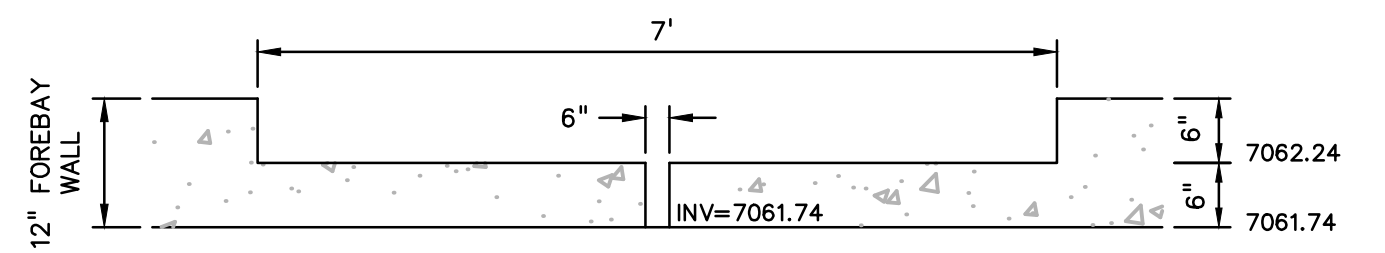
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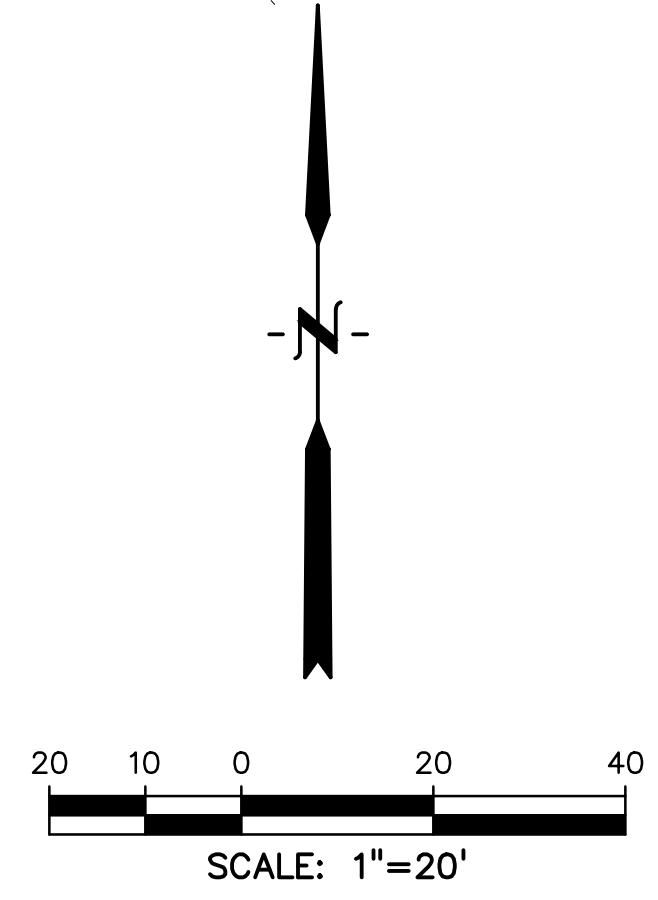
POND G14B FOREBAY
SCALE: 1"=5'



FOREBAY BAFFLE ENERGY DISSIPATORS
NO SCALE



FOREBAY NOTCH
NO SCALE



PREPARED BY:

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DESIGNED BY: SBN
DRAWN BY: SBN
CHECKED BY: KGV
FILE NAME: 21820-01PD

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

DRAWING SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

POND G14B
DETAILS

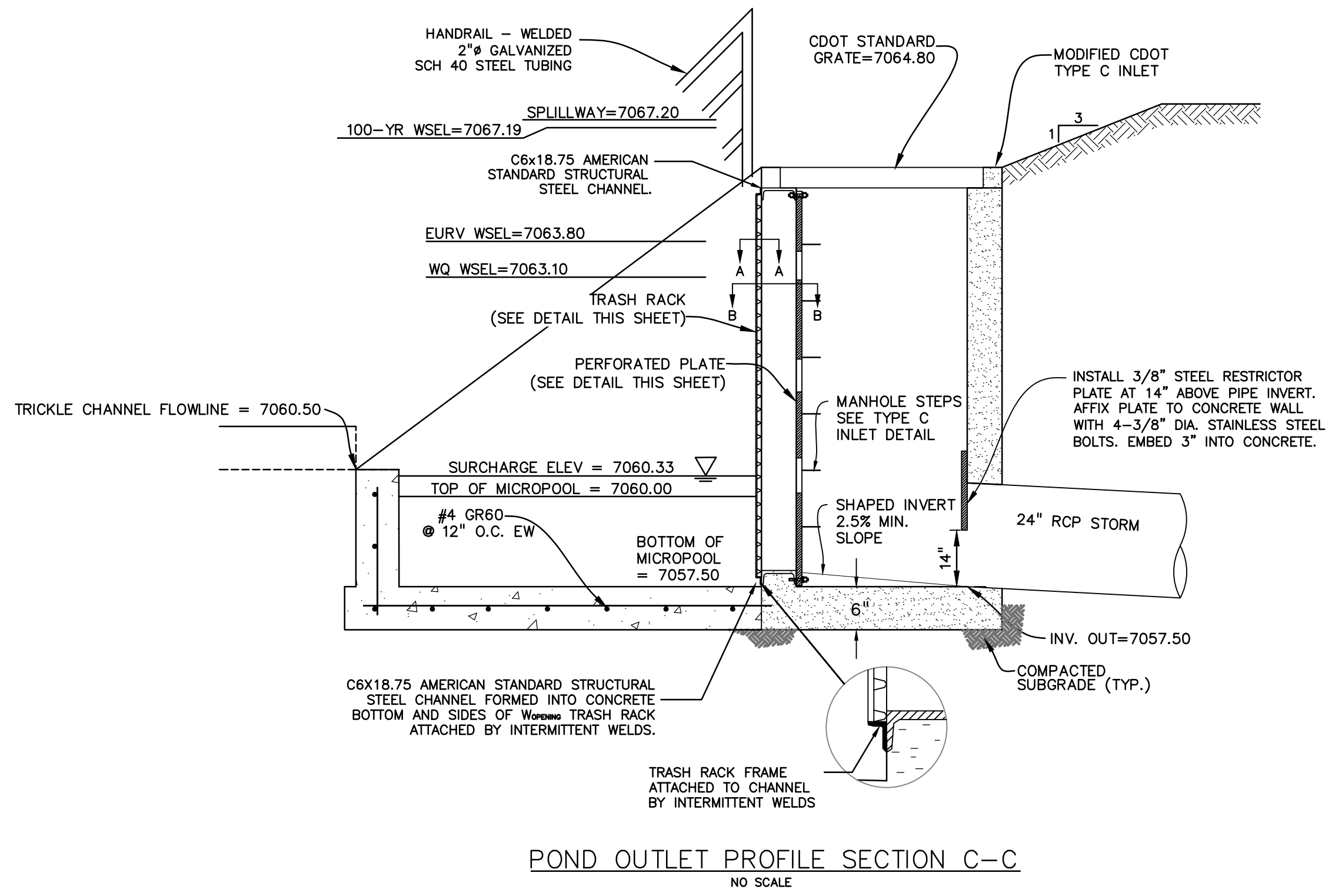
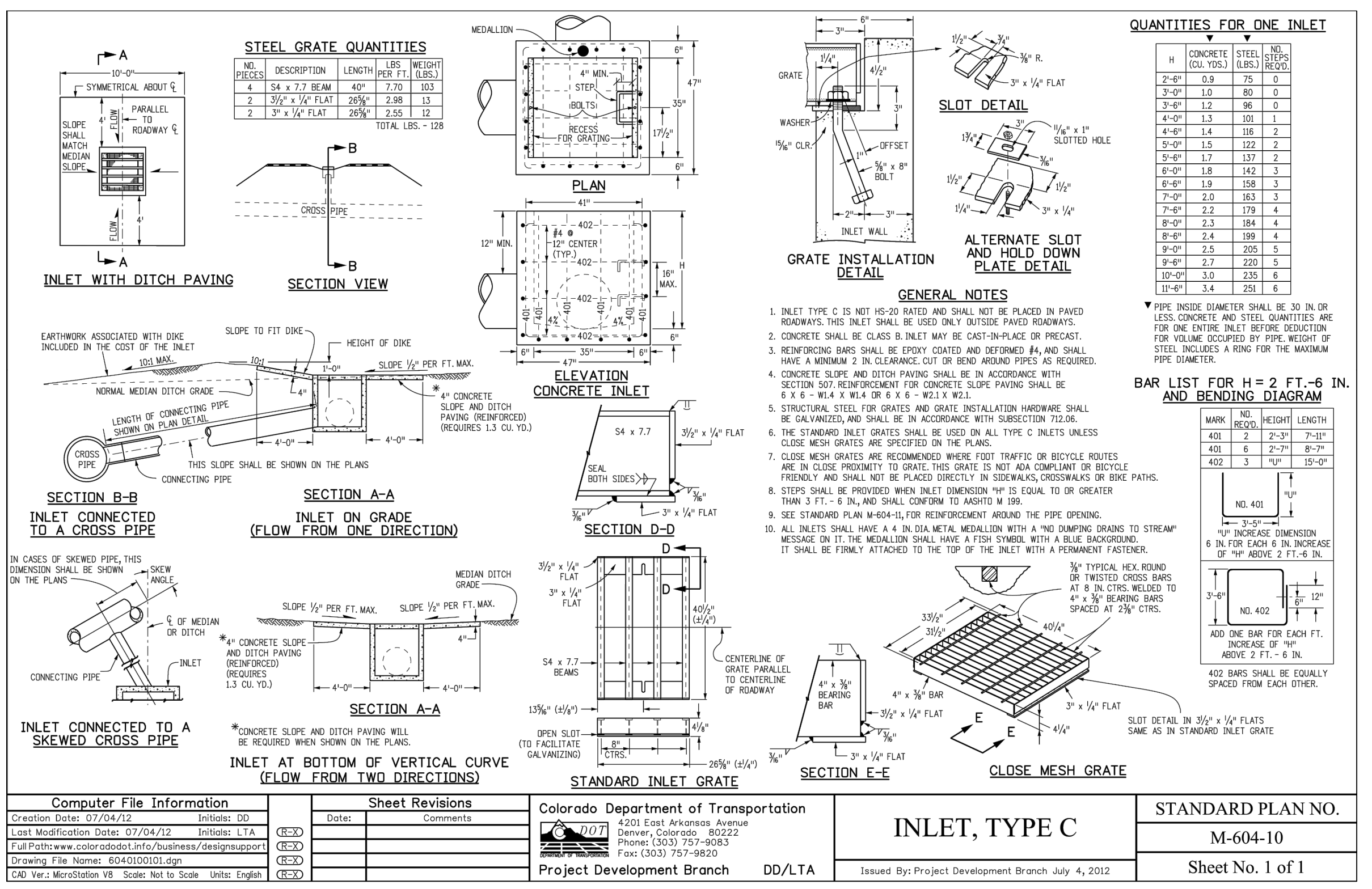
PROJECT NO. 21820-01CSCV
DRAWING NO.

PD1

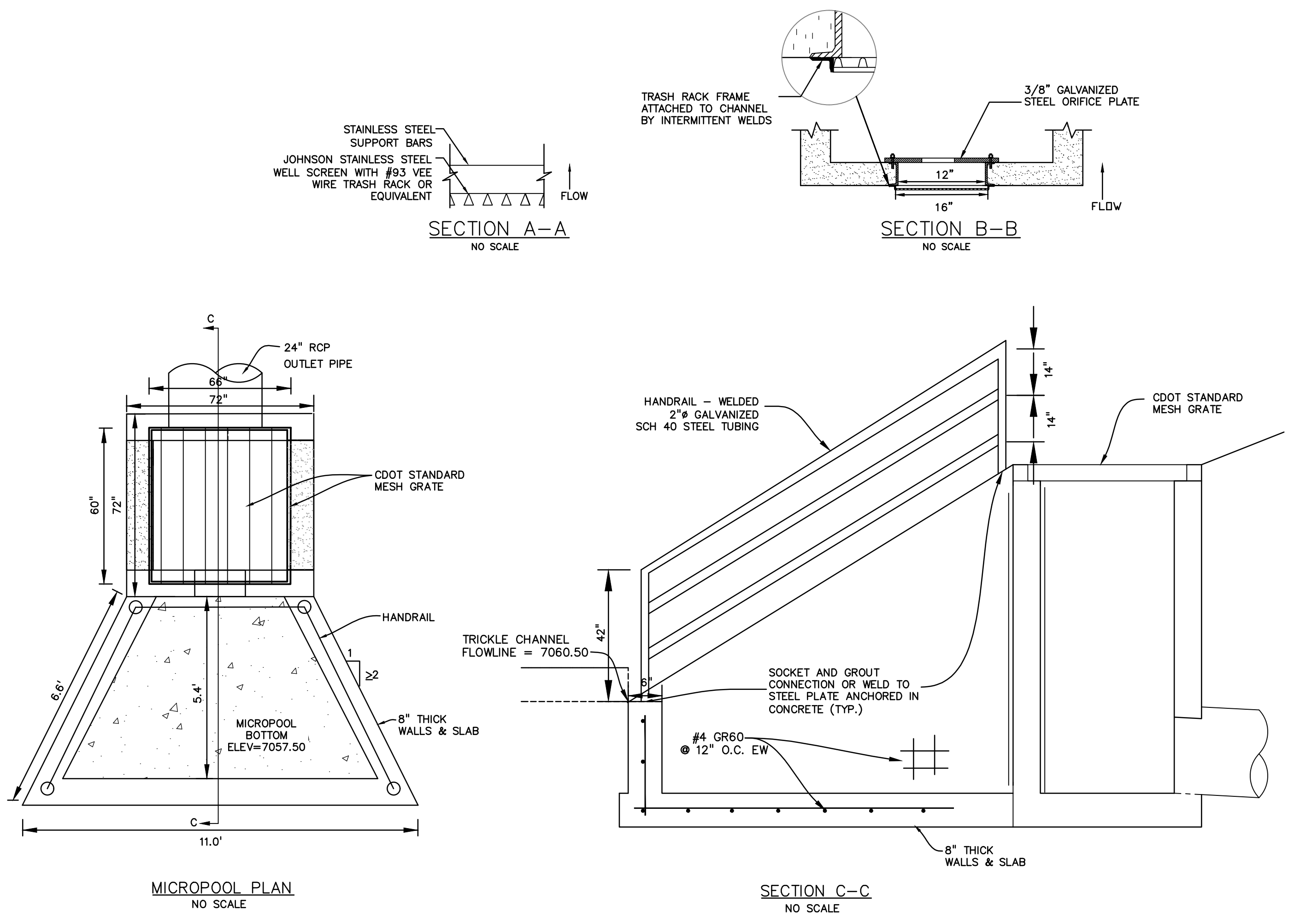
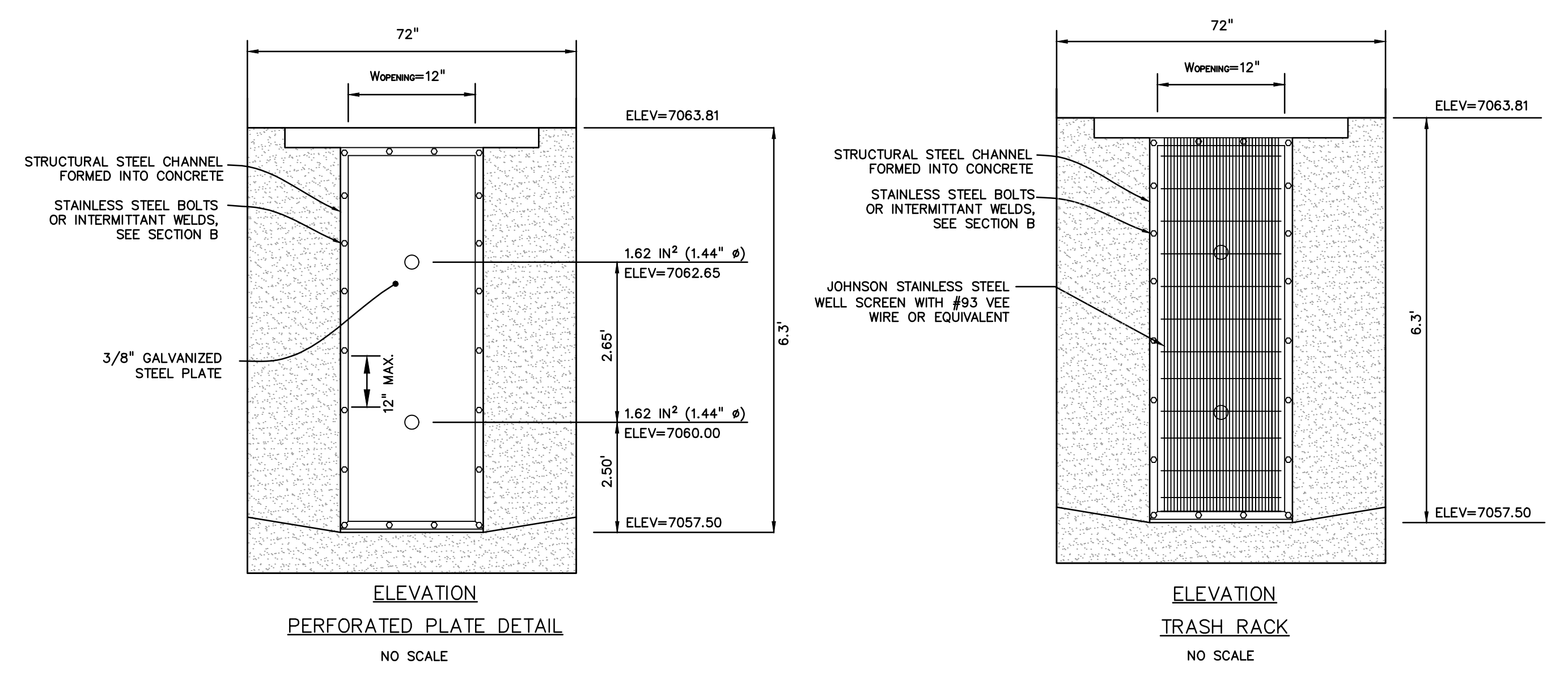
811 Know what's below.
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SF2421

SHEET: 13 OF 18



Computer File Information	Sheet Revisions	Colorado Department of Transportation	STANDARD PLAN NO.
Creation Date: 07/04/12 Last Modification Date: 07/04/12 Drawing File Name: 604010001.dgn CAB Ver: MicroStation V8 Scale: Not to Scale Units: English	Date: _____ Comments: _____	4001 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA Issued By: Project Development Branch July 4, 2012	M-604-10 Sheet No. 1 of 1



- PERFORATED PLATE NOTES:**
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- WOCV TRASH RACKS:**
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- GENERAL NOTES:**
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PREPARED BY:

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COLORADO SPRINGS • LAFAYETTE

CLIENT:

FALCON LATIGO, LLC
5350 S. ROSLYN ST. STE #400
ENGLEWOOD, CO 80111-2125
(303) 694-0862

GRADING & EROSION CONTROL PLANS FOR:

LATIGO TRAILS
FILING NO. 10
EL PASO COUNTY
FALCON, COLORADO

ISSUE	DATE
INITIAL ISSUE	9/26/24
RESUBMITTAL	1/6/25

DESIGNED BY: SBN
DRAWN BY: SBN
CHECKED BY: TDM
FILE NAME: 21820-01OUT

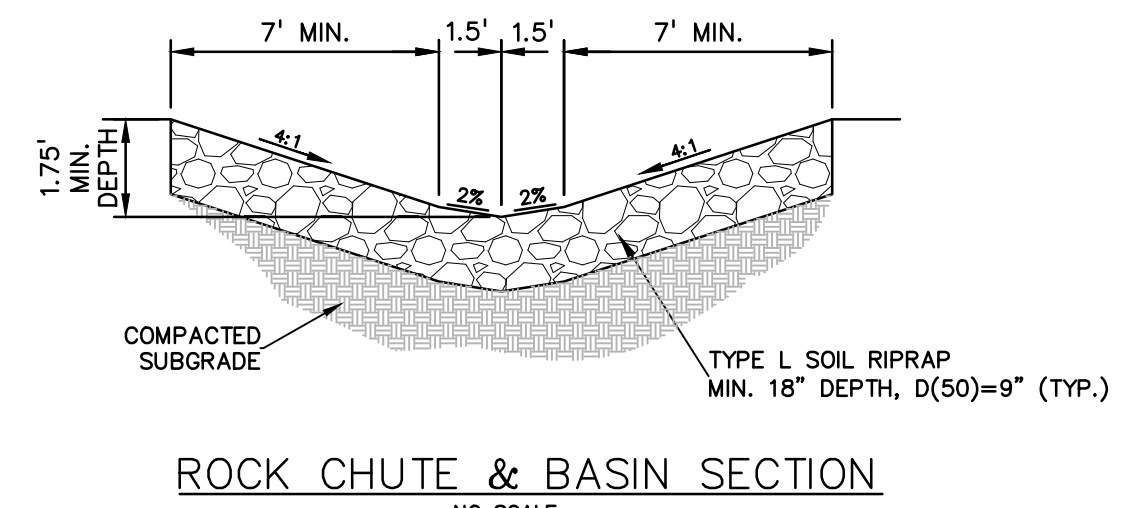
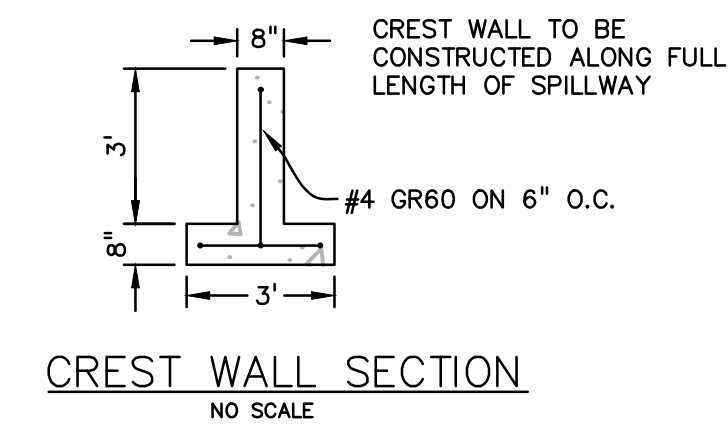
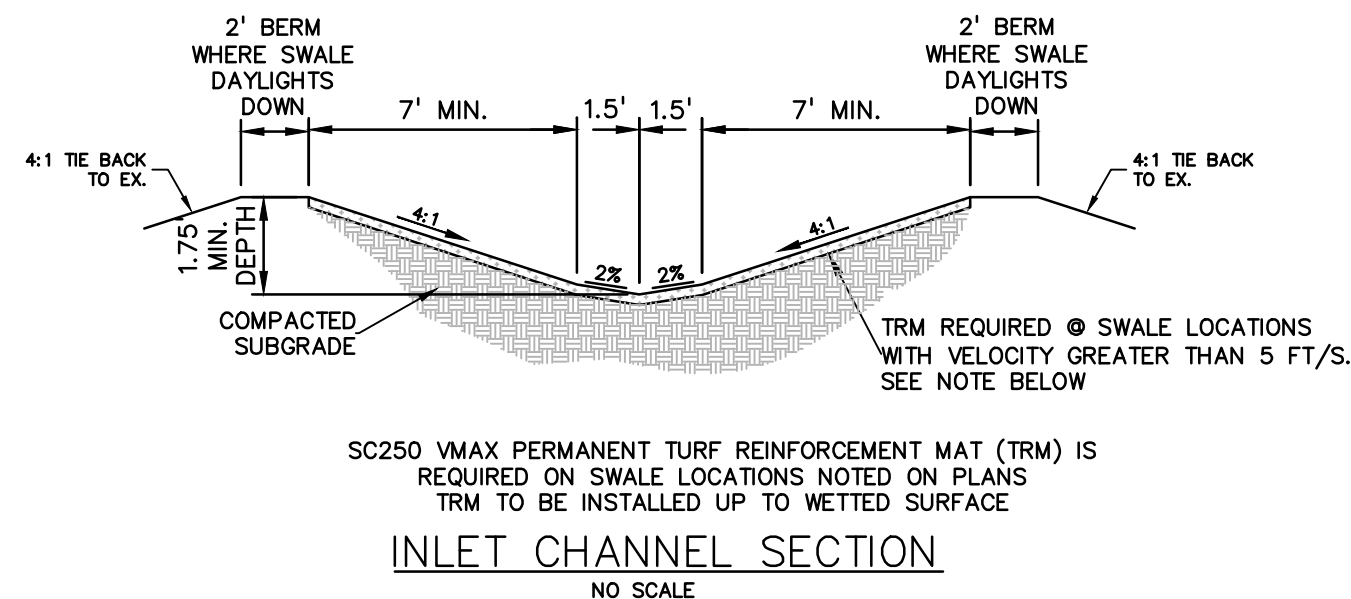
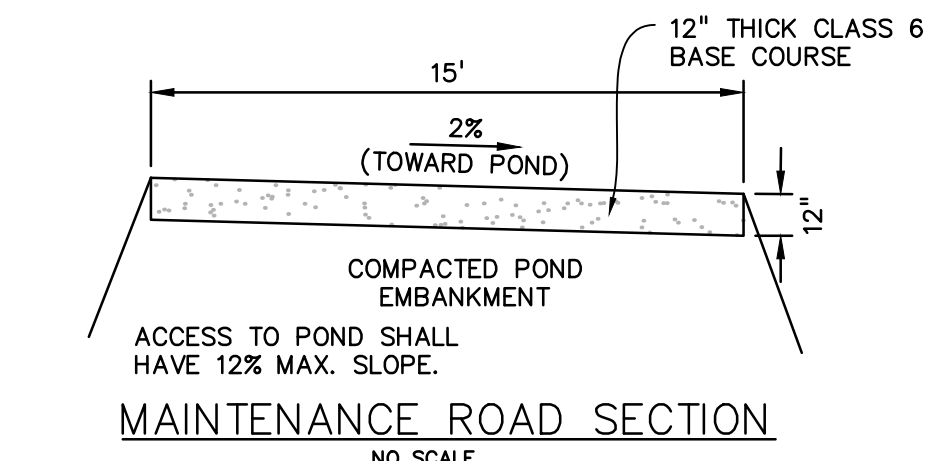
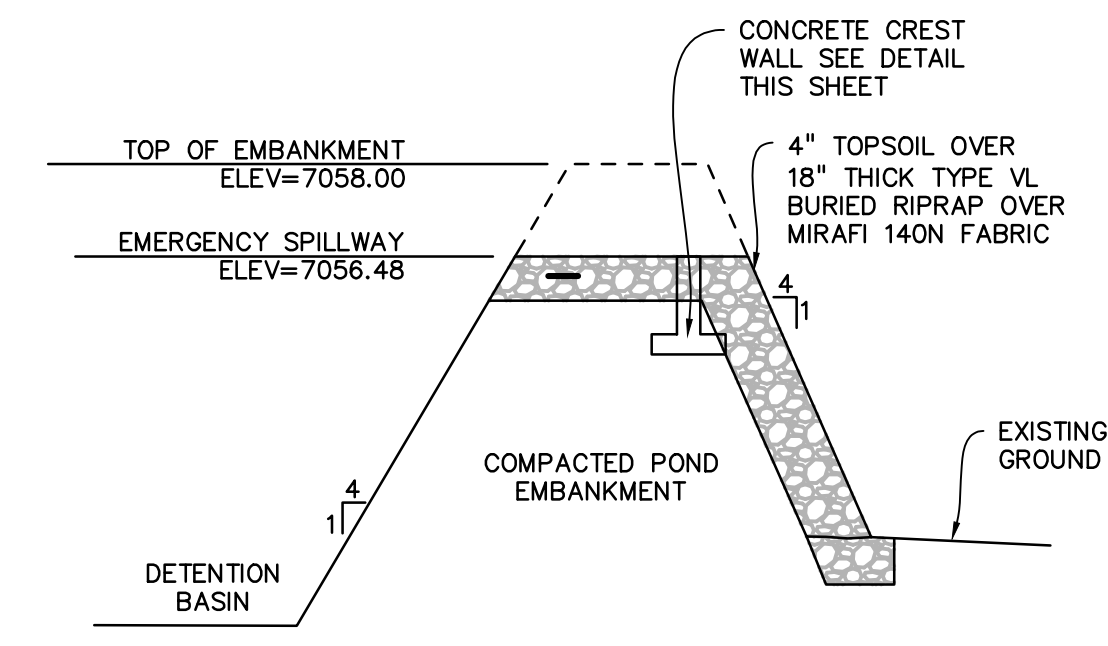
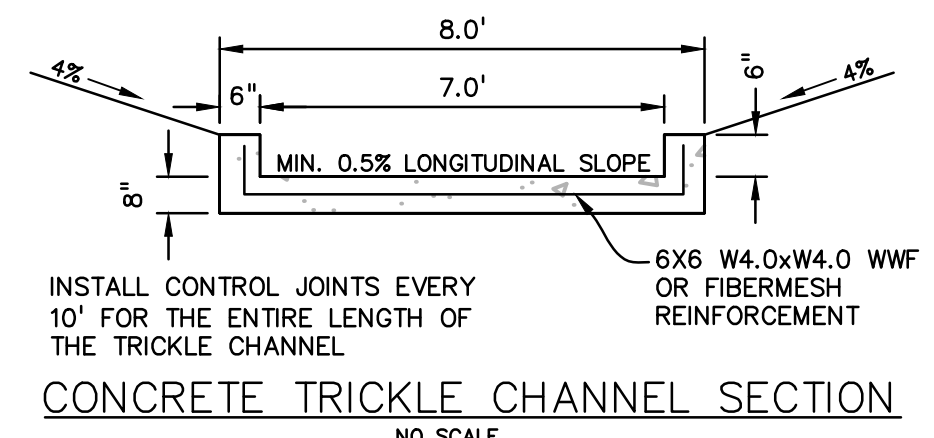
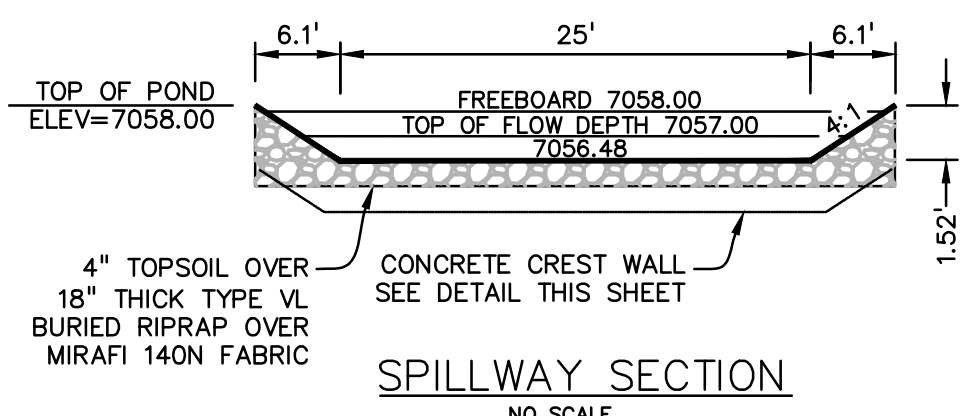
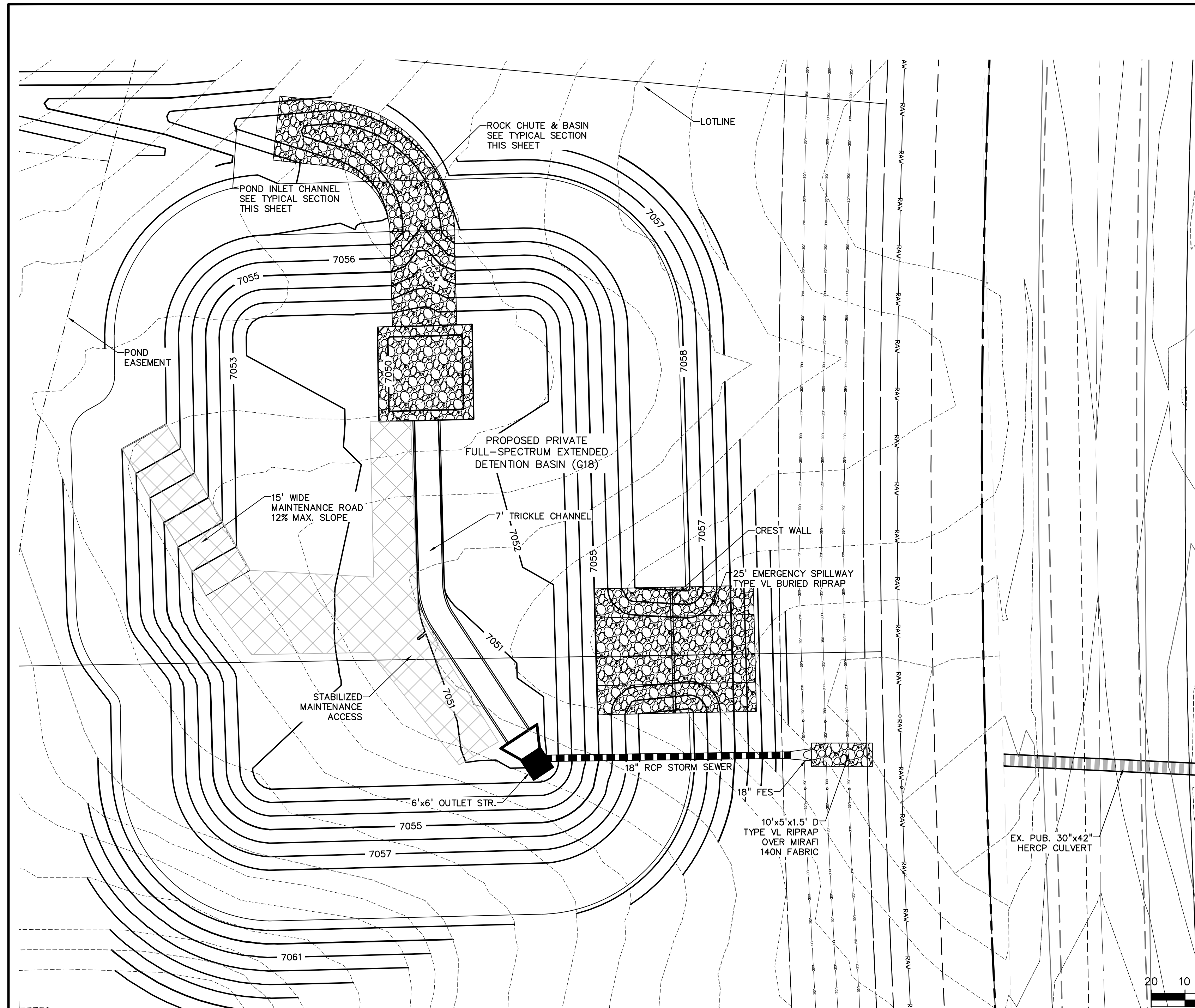
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF DREXEL, BARRELL & CO.

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

POND G14b
OUTLET
STRUCTURE

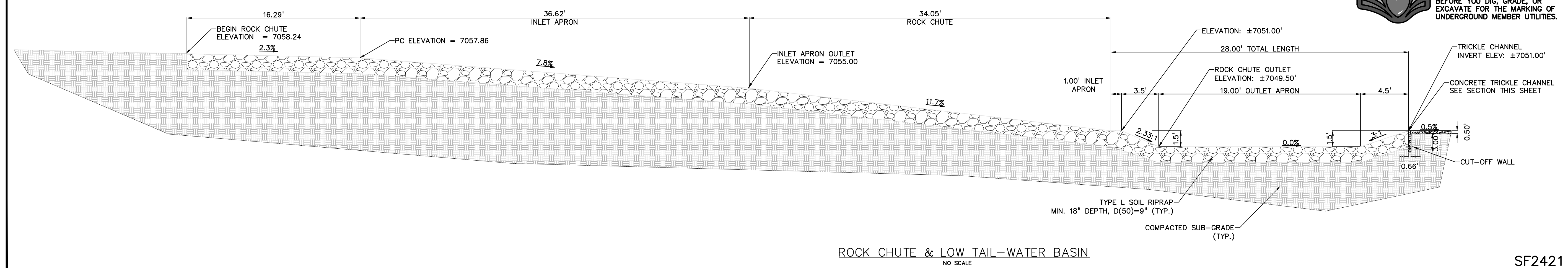
PROJECT NO. 21820-01CSCV
DRAWING NO.

OUT1



DETENTION FACILITY POND G18
SCALE: 1"=20'

SCALE: 1"=20'



ROCK CHUTE & LOW TAIL-WATER BASIN
NO SCALE

SF2421

PREPARED BY:



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RESUBMITTAL	1/6/25

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	KGV
FILE NAME:	21820-01PD

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DRAWING SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

POND G18
DETAILS

PROJECT NO. 21820-01CSCV
DRAWING NO.

PD2

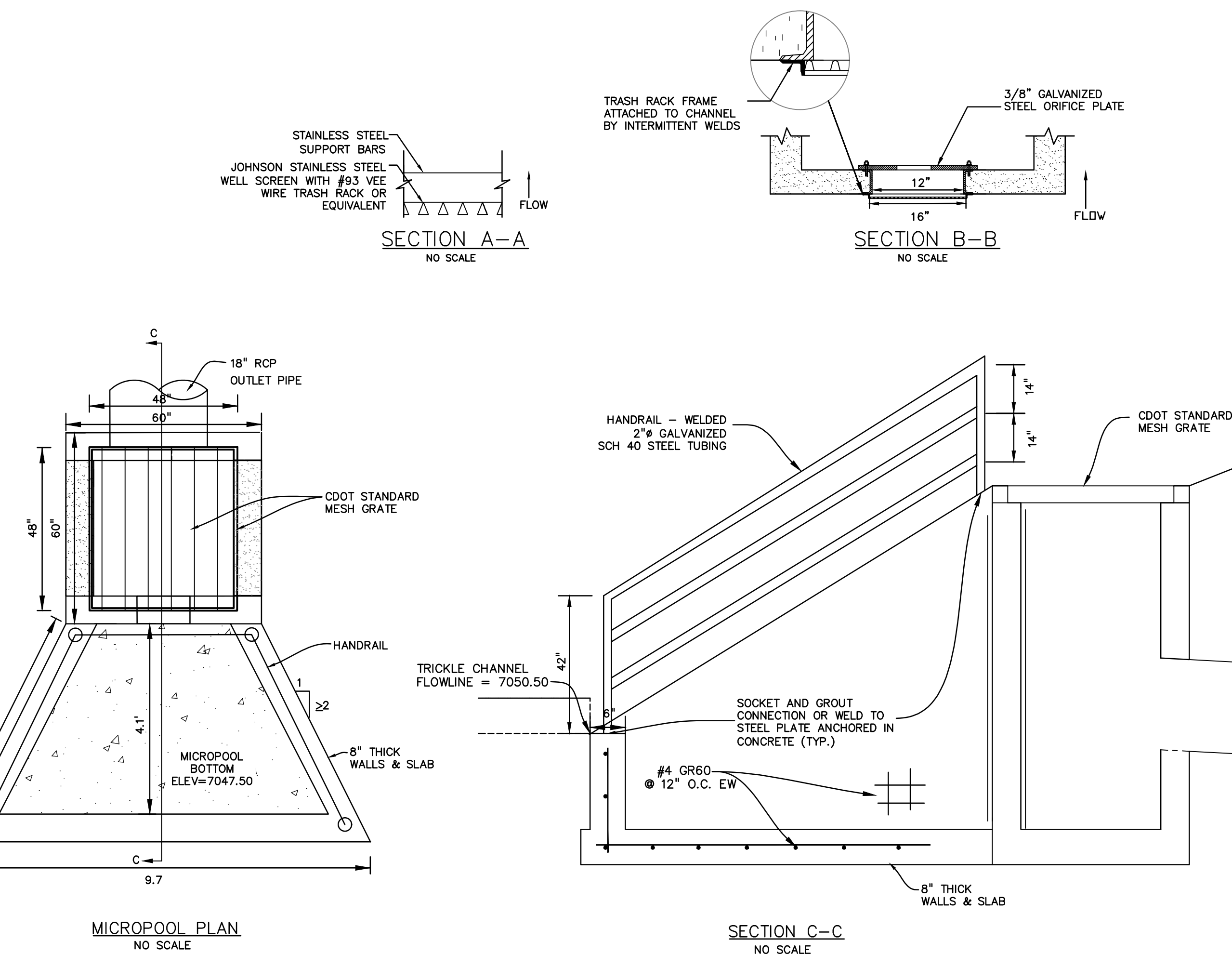
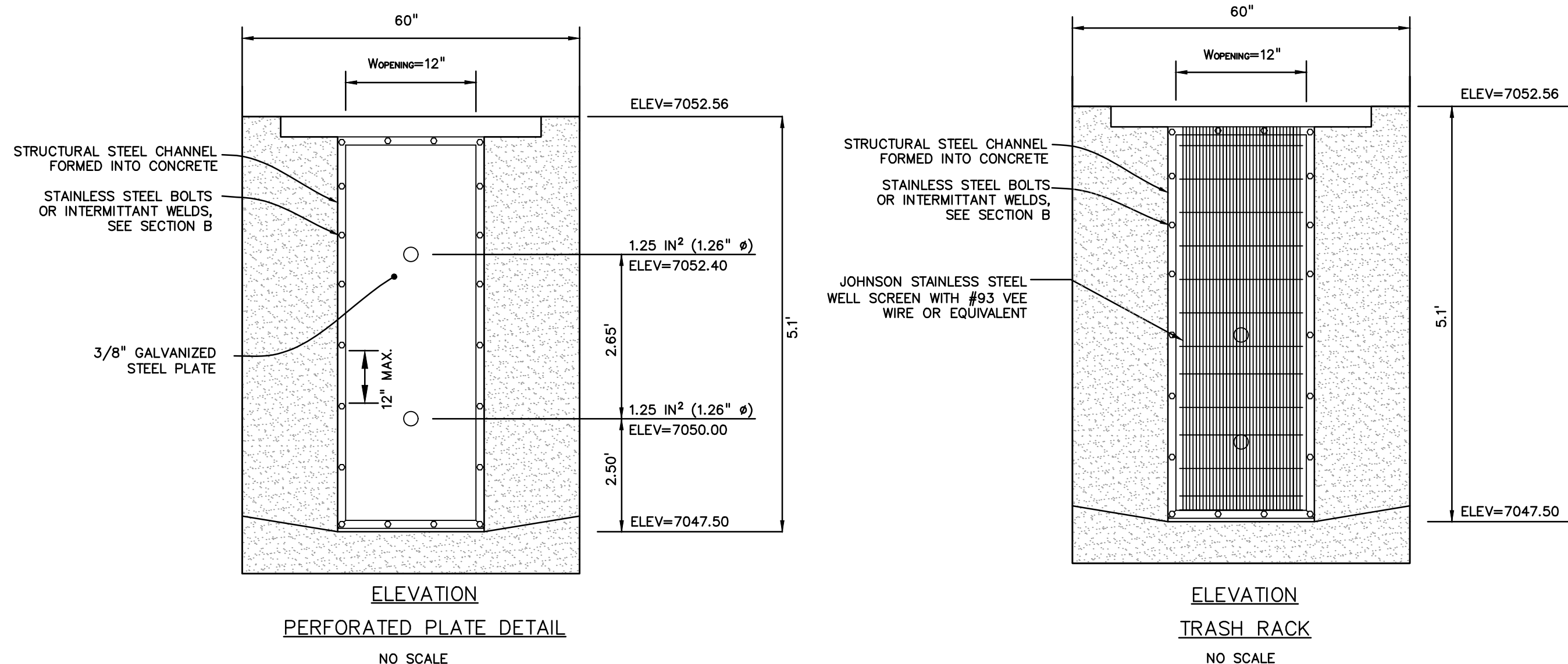
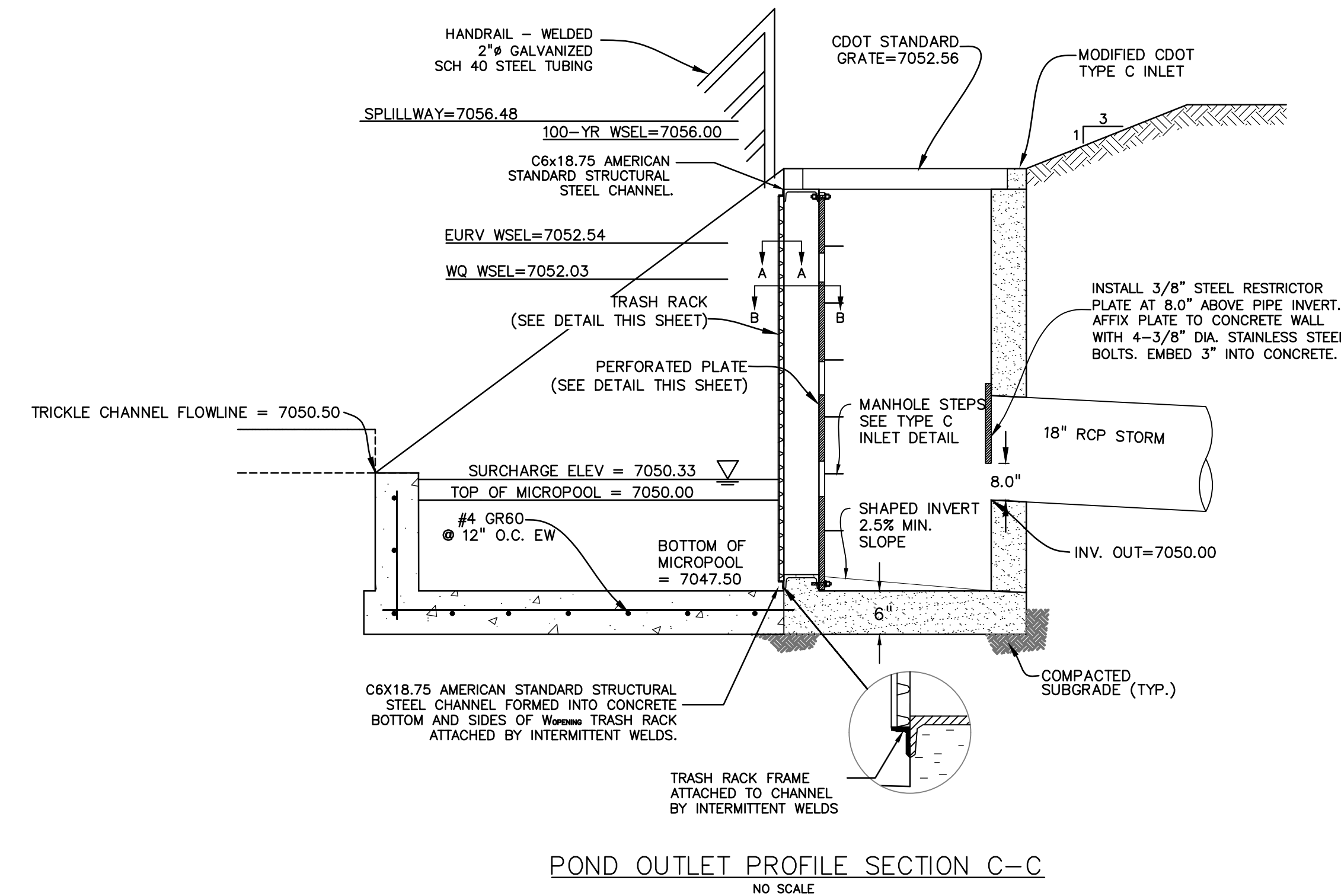
SHEET: 15 OF 18

STEEL GRATE QUANTITIES		QUANTITIES FOR ONE INLET	
NO.	DESCRIPTION	LENGTH PER FT. (LBS.)	NO. PER 100' (LBS.)
1	54 x 7.7 BEAM	40'	276
2	3 1/2" x 1/4" FLAT	263'	288
3	3" x 1/4" FLAT	263'	288
TOTAL		566'	852

MARK	NO. REQ'D.	LENGTH
NO. 402	2	2'-0"
NO. 401	6	2'-7"
NO. 402	3	1'-0"

INLET, TYPE C **STANDARD PLAN NO. M-604-10**

Project Development Branch DD/LTA Issued By: Project Development Branch July 4, 2012 Sheet No. 1 of 1



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DRAWN BY: SBN
CHECKED BY: TDM
FILE NAME: 21820-01OUT

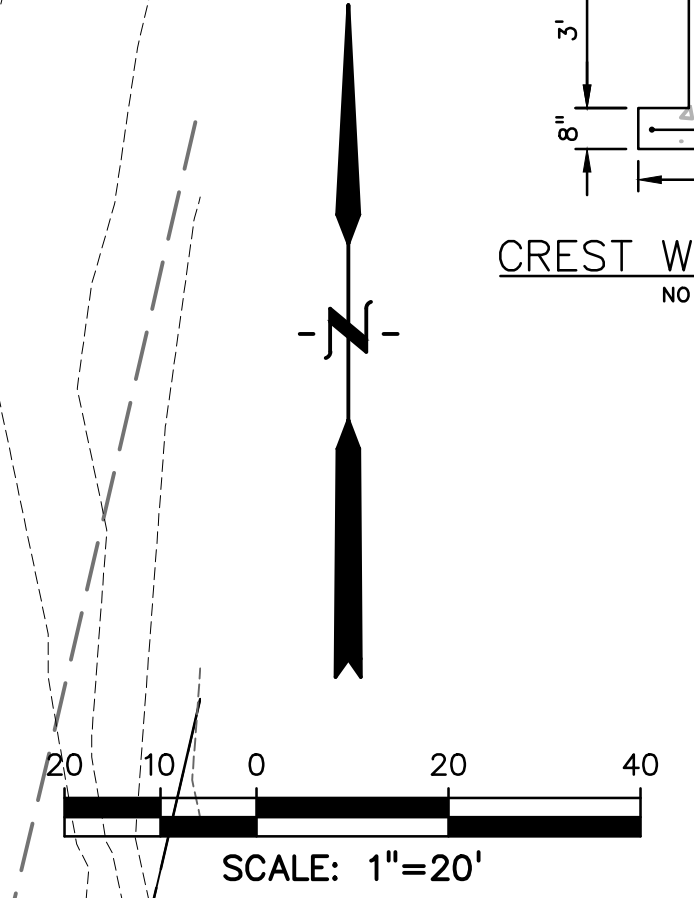
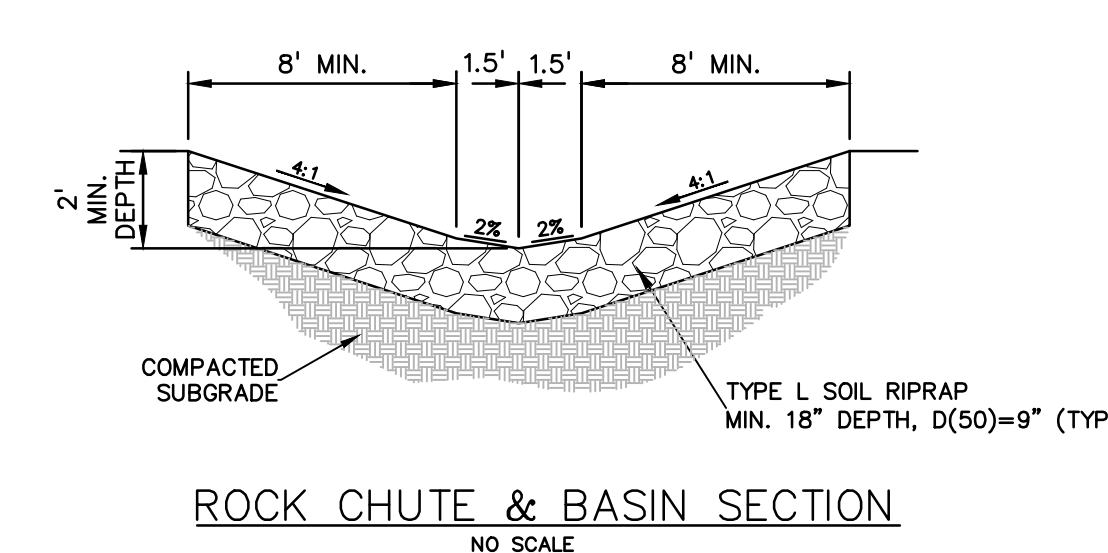
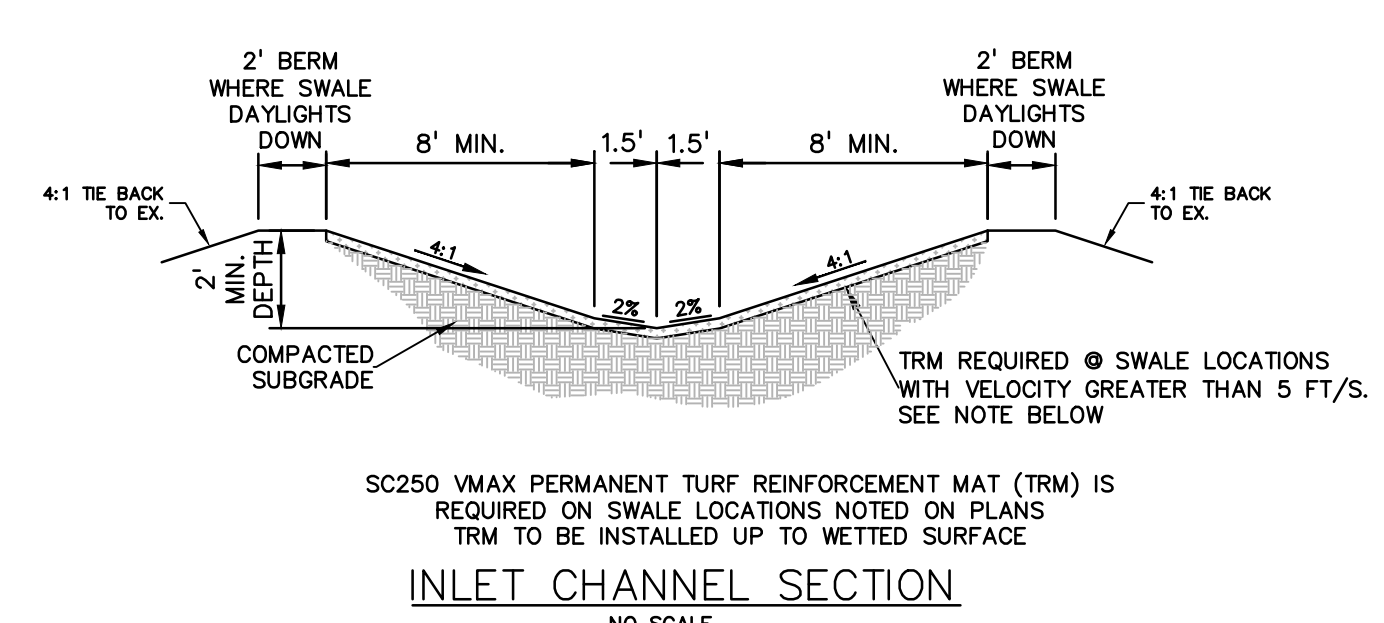
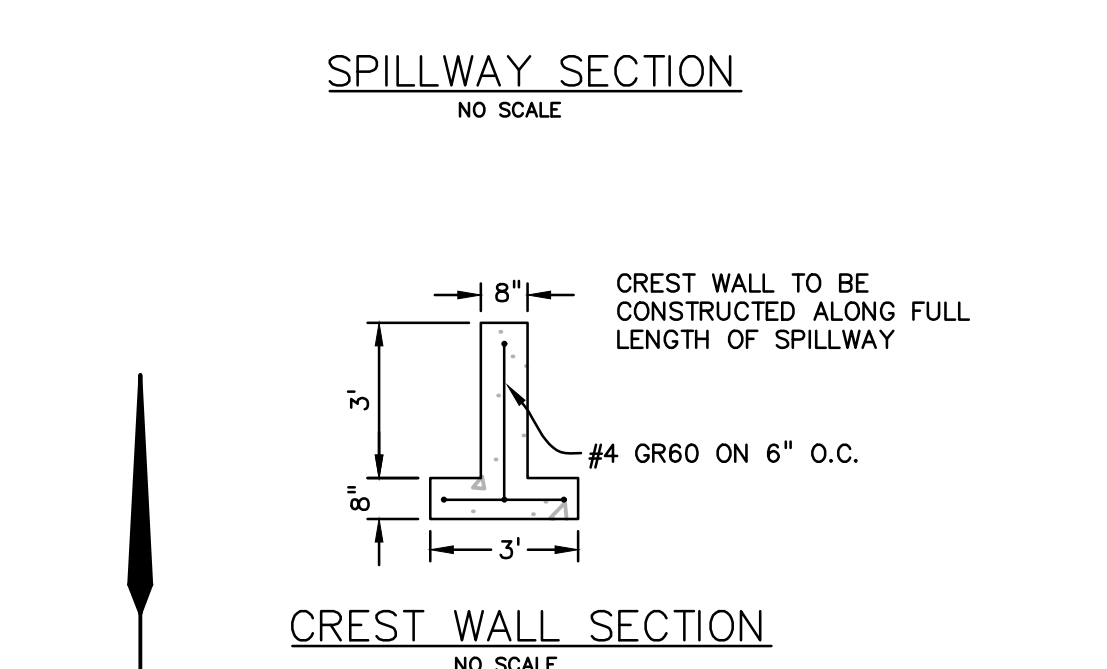
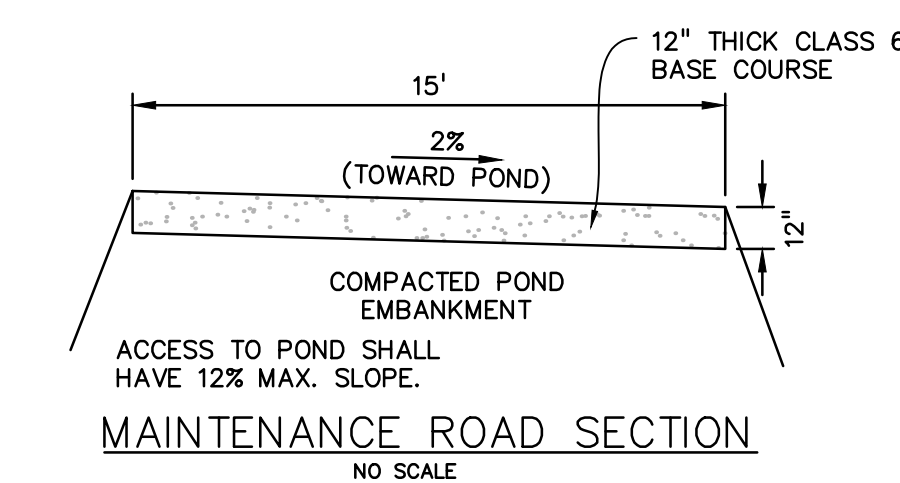
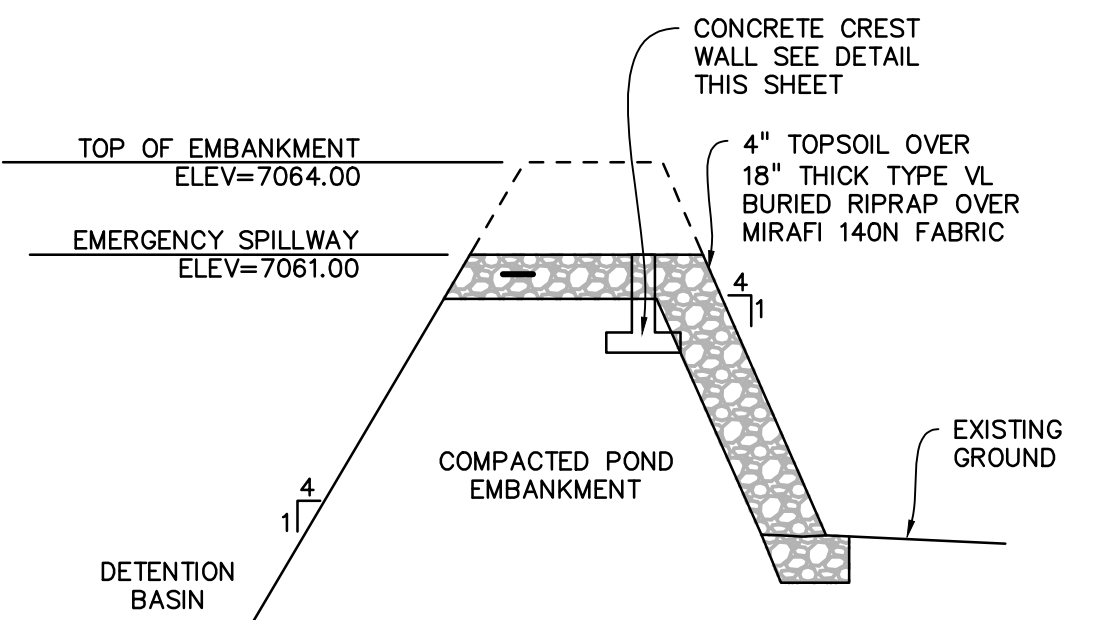
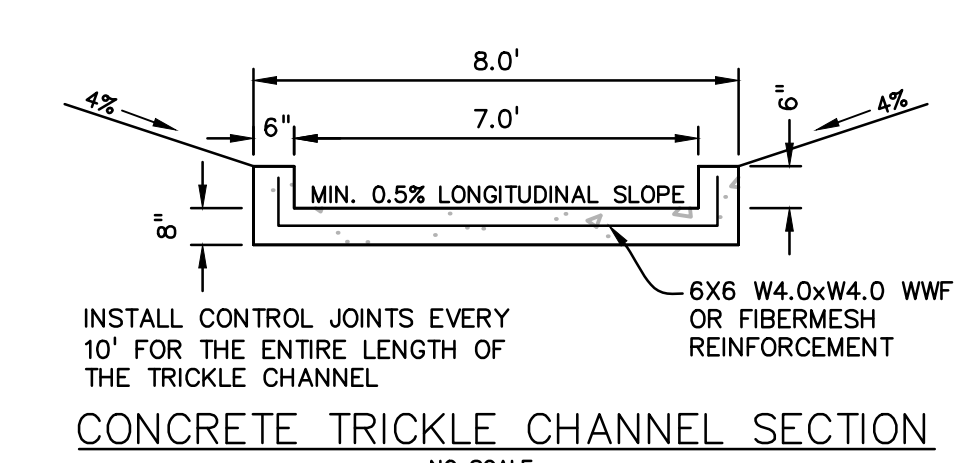
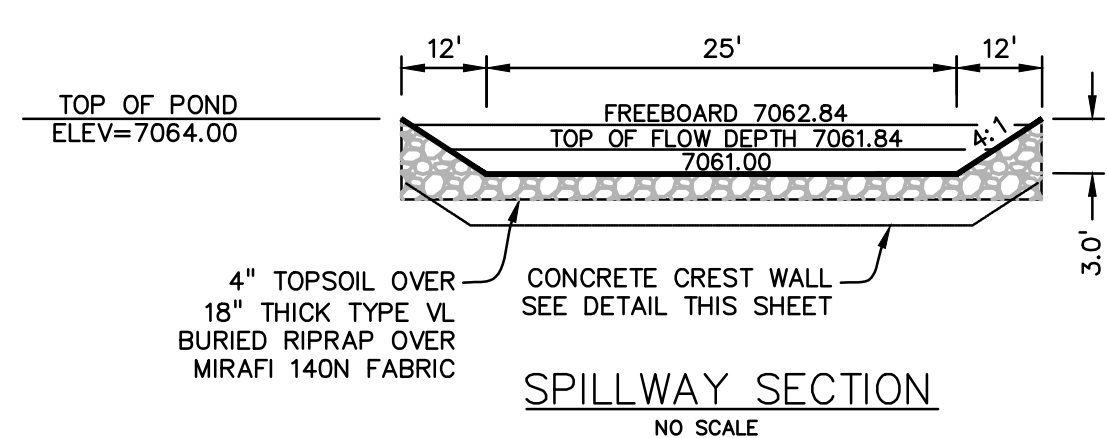
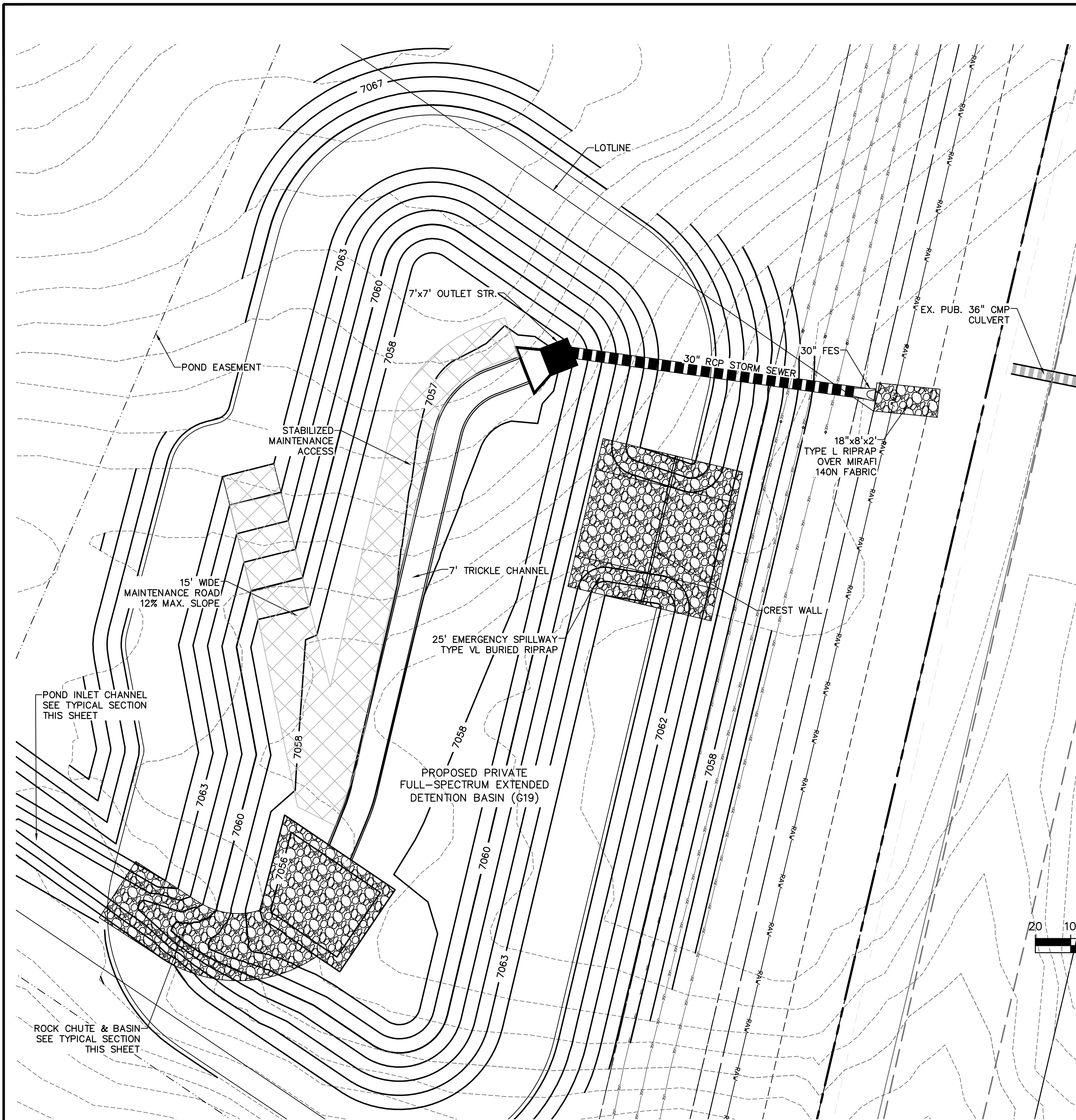
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DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

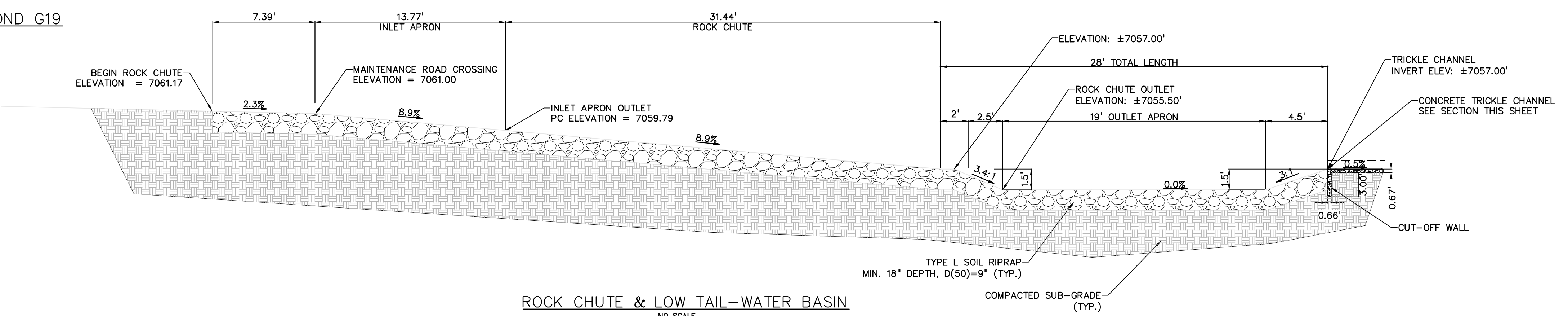
POND G18
OUTLET
STRUCTURE

PROJECT NO. 21820-01CSCV
DRAWING NO.





DETENTION FACILITY POND G19
SCALE: 1"=20'



ROCK CHUTE & LOW TAIL-WATER BASIN
NO SCALE

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DRAWING SCALE:
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VERTICAL: N/A

POND G19
DETAILS

PROJECT NO. 21820-01CSCV
DRAWING NO.

PD3

SHEET: 17 OF 18



SF2421

