

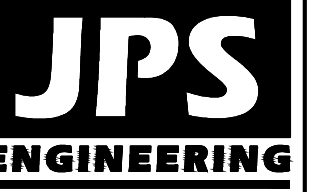
HAVEN FOREST SCHOOL

5490 BURGESS ROAD

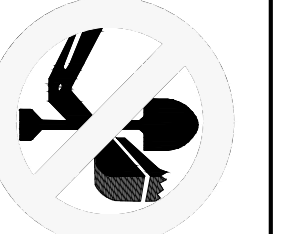
EL PASO COUNTY, COLORADO

GRADING & EROSION CONTROL PLANS

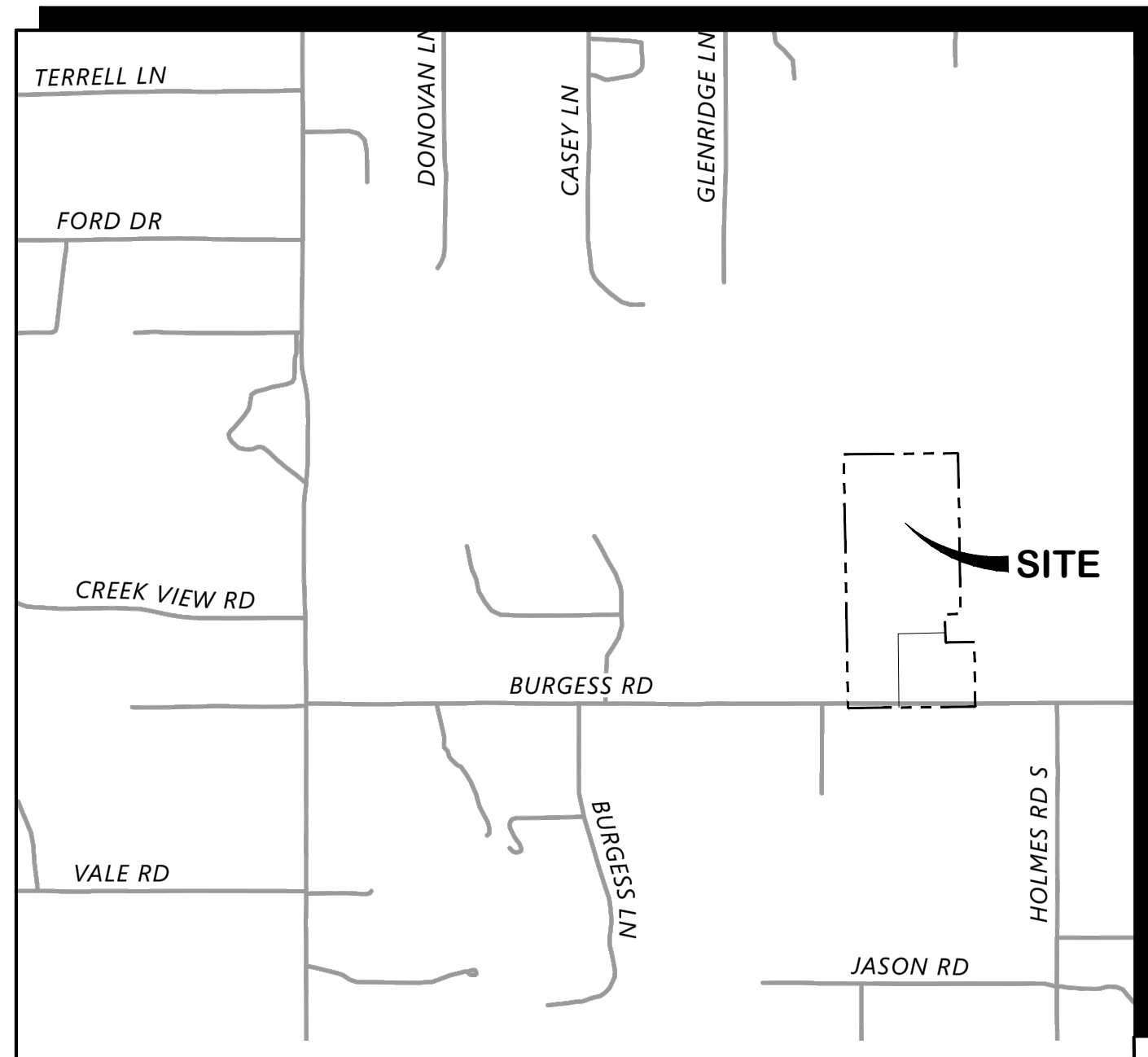
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1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



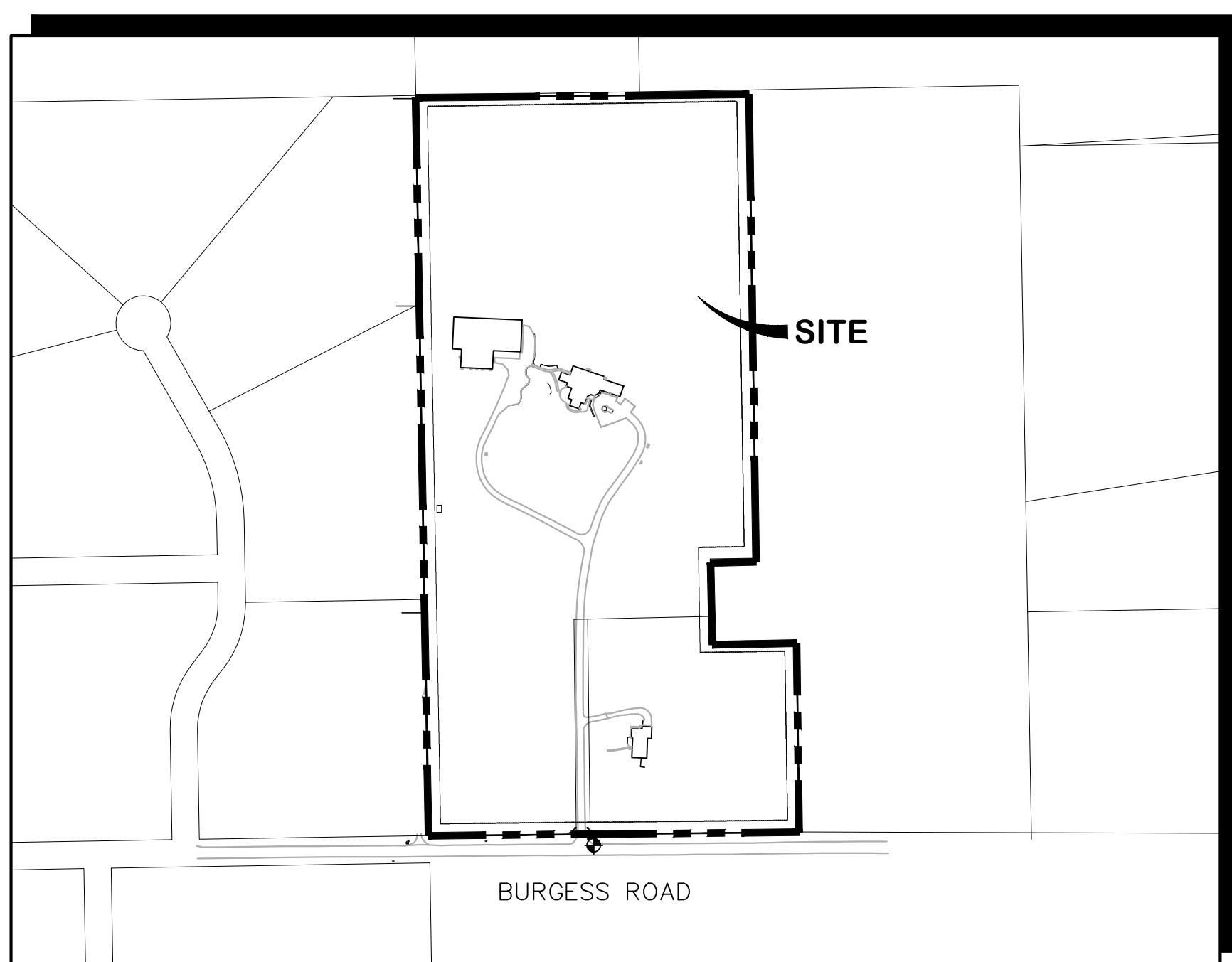
19 E. Willamette Ave.
Colorado Springs, CO
80903
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VICINITY MAP
NOT TO SCALE



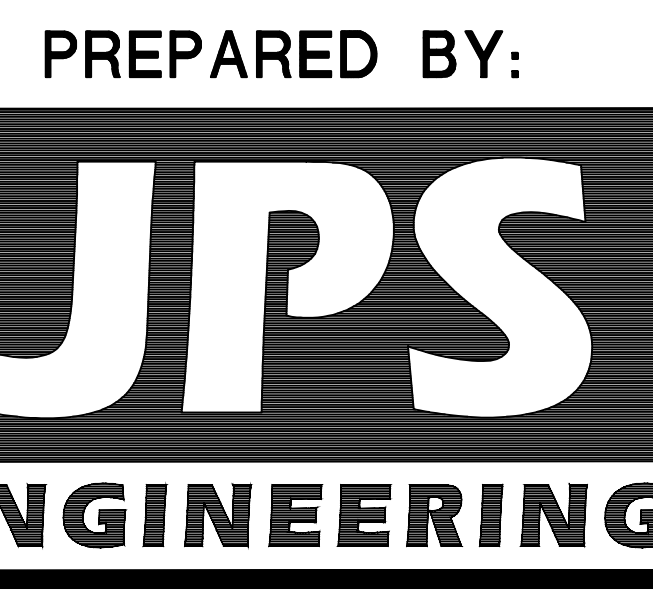
SITE MAP
NOT TO SCALE

NOTE: NOT WITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED AND APPROVED IN WRITING TO BE ACCEPTABLE.

BASIS OF BEARING:
BURGESS ROAD NORTH ROW LINE (SITE SOUTH P/L) TAKEN AS N89°27'40"E

◆ BENCHMARK:
12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE. ELEV.=7160.57(NAV88)

PREPARED FOR:
Haven Education
7265 Baker Road
Colorado Springs, CO 80908



Signatures and stamp all pages

19 East Willamette Avenue
Colorado Springs, Colorado 80903
May, 2026

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ENGINEER:

ENGINEER'S STATEMENT:

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

JOHN P. SCHWAB, P.E. #29891 _____ DATE _____

OWNER/DEVELOPER'S STATEMENT:

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

HAVEN EDUCATION
7265 BAKER ROAD
COLORADO SPRINGS, CO 80908 _____ DATE _____

EL PASO COUNTY:

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

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

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THEY WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA J. PALMER, P.E. _____ DATE _____
COUNTY ENGINEER / ECM ADMINISTRATOR

AGENCIES/CONTACTS

DEVELOPER:	HAVEN EDUCATION 7265 BAKER ROAD COLORADO SPRINGS, CO 80908	GAS DEPARTMENT:	BLACK HILLS ENERGY (719)393-6625
CIVIL ENGINEER:	JPS ENGINEERING, INC. 19 E. WILLAMETTE AVENUE COLORADO SPRINGS, CO 80903 MR. JOHN P. SCHWAB, P.E. (719)477-9429	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 (719)495-2283
LOCAL ROADS & DRAINAGE	EL PASO COUNTY DSD 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 (719) 520-6300	TELEPHONE COMPANY:	QWEST COMMUNICATIONS (LOCATORS) (800)922-1987 A.T. & T. (LOCATORS) (719)635-3674
		FIRE DEPARTMENT:	BLACK FOREST FIRE DISTRICT FIRE MARSHALL (719)495-4300

HAVEN FOREST SCHOOL
5490 BURGESS ROAD, EL PASO COUNTY, CO

GEC TITLE SHEET

HORIZ. SCALE:	N/A	DRAWN:	PV
VERT. SCALE:	N/A	DESIGNED:	JPS
SURVEYED:	COMPASS	CHECKED:	JPS
CREATED:	4/3/25	LAST MODIFIED:	05/13/26
PROJECT NO:	122401	MODIFIED BY:	PV

PCD FILE NO. PPR-2423

C1.0

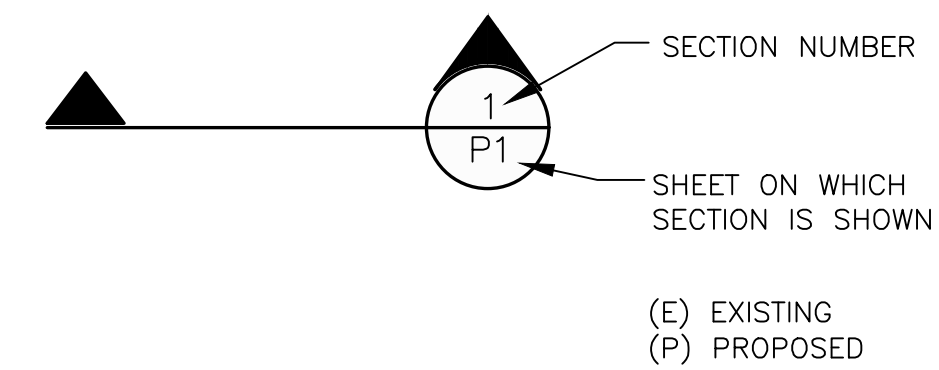
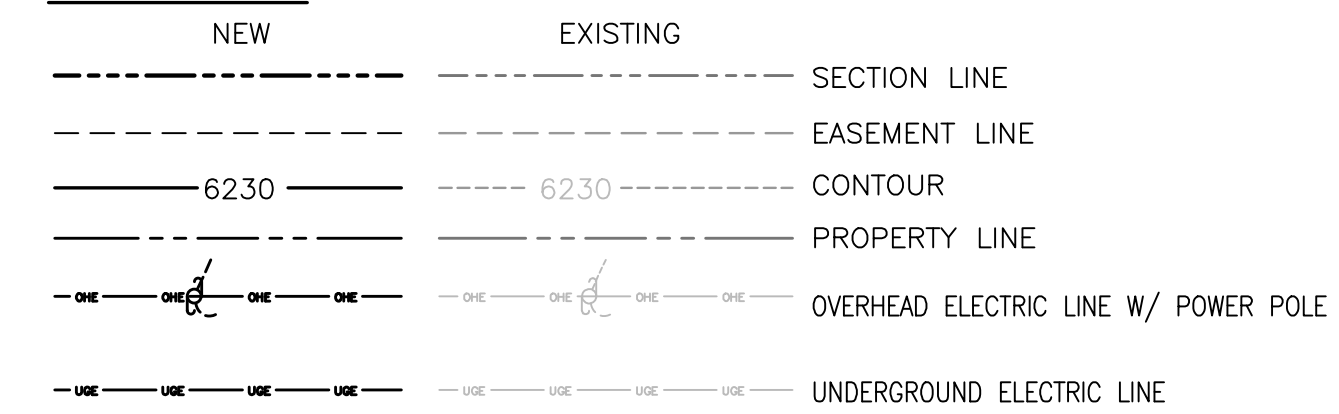
PROJECT GENERAL NOTES:

- EXISTING CONTOUR DATA CONSISTS OF AERIAL TOPOGRAPHIC SURVEY DATA PROVIDED BY OWNER'S SURVEYOR. JPS ENGINEERING TAKES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING TOPOGRAPHIC MAPPING.
- STATIONING IS AT CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE AT EDGE OF ASPHALT (EOA) UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE FROM EDGE OF ASPHALT TO EDGE OF ASPHALT UNLESS OTHERWISE NOTED.
- PROPOSED CONTOURS SHOWN ARE TO FINISHED GRADE.
- LENGTHS SHOWN FOR STORM SEWER PIPES ARE TO CENTER OF MANHOLE.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, DEBRIS, WASTE AND OTHER UNSUITABLE FILL MATERIAL FOUND WITHIN THE LIMITS OF EXCAVATION.
- MATCH INTO EXISTING GRADES AT 3:1 MAX CUT AND FILL SLOPES.
- REVEGETATION OF ALL DISTURBED AREAS SHALL BE DONE WITH SPECIFIED SEED MIX WITHIN 60 DAYS AFTER FINE GRADING IS COMPLETE.
- EROSION CONTROL SHALL CONSIST OF SILT FENCE AND CONTROL MEASURES AS SHOWN ON THE DRAWING, AND TOPSOIL WITH GRASS SEED, WHICH WILL BE WATERED UNTIL VEGETATION HAS BEEN REESTABLISHED.
- THE EROSION CONTROL MEASURES OUTLINED ON THIS PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE, AND REBUILD AS NECESSARY UNTIL VEGETATION IS REESTABLISHED.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT ADJACENT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED BY SITE CONDITIONS.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE MATERIAL SHALL BE COMPACTED PER EL PASO COUNTY AND CDOT STANDARDS AND SPECIFICATIONS.
- ALL FINISHED GRADES SHALL HAVE A MINIMUM 1.0% SLOPE TO PROVIDE POSITIVE DRAINAGE.
- WHERE PROPOSED SLOPES CONFLICT WITH PROPOSED SPOT ELEVATIONS, SPOT ELEVATIONS SHALL GOVERN.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING WORK.
- THERE ARE NO ANTICIPATED ASPHALT/CONCRETE BATCH PLANTS.

GENERAL DRAINAGE NOTES:

- PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ACCOUNT FOR POTENTIAL CROSS-LOT DRAINAGE IMPACTS WITHIN EACH LOT.
- IMPLEMENT & MAINTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES FOR PROTECTION OF DOWNSTREAM PROPERTIES AND FACILITIES INCLUDING PROTECTION OF EXISTING GRASS BUFFER STRIPS ALONG THE DOWNSTREAM PROPERTY BOUNDARIES.

LEGEND:



SYMBOL LEGEND

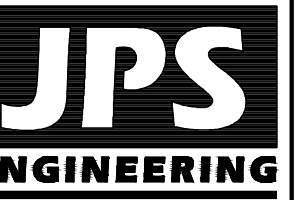
- FOUND MONUMENT
- A/C AIR CONDITIONER UNIT
- ⚡ ELECTRIC LIGHT POLE
- ⚡ ELECTRIC METER
- ⊠ FENCE POST
- FOV FIBER OPTIC VAULT
- ⚡ GAS METER
- ↓ GUY WIRE
- ⊠ MAILBOX
- SANITARY SEWER MANHOLE
- ⊠ TELEPHONE PEDESTAL
- ↓ TELEPHONE SIGN

SYMBOL LEGEND

- ⊕ WELL HEAD
- FENCE - WIRE
- FENCE - SPLIT RAIL OR WOOD
- FIBER OPTIC
- OVERHEAD UTILITY
- STORM DRAIN
- UNDERGROUND ELECTRIC
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE
- WATER LINE
- ⊕ UTILITY POLE

HAVEN FOREST SCHOOL
5490 Burgess Road, El Paso County, CO

GENERAL NOTES & LEGEND



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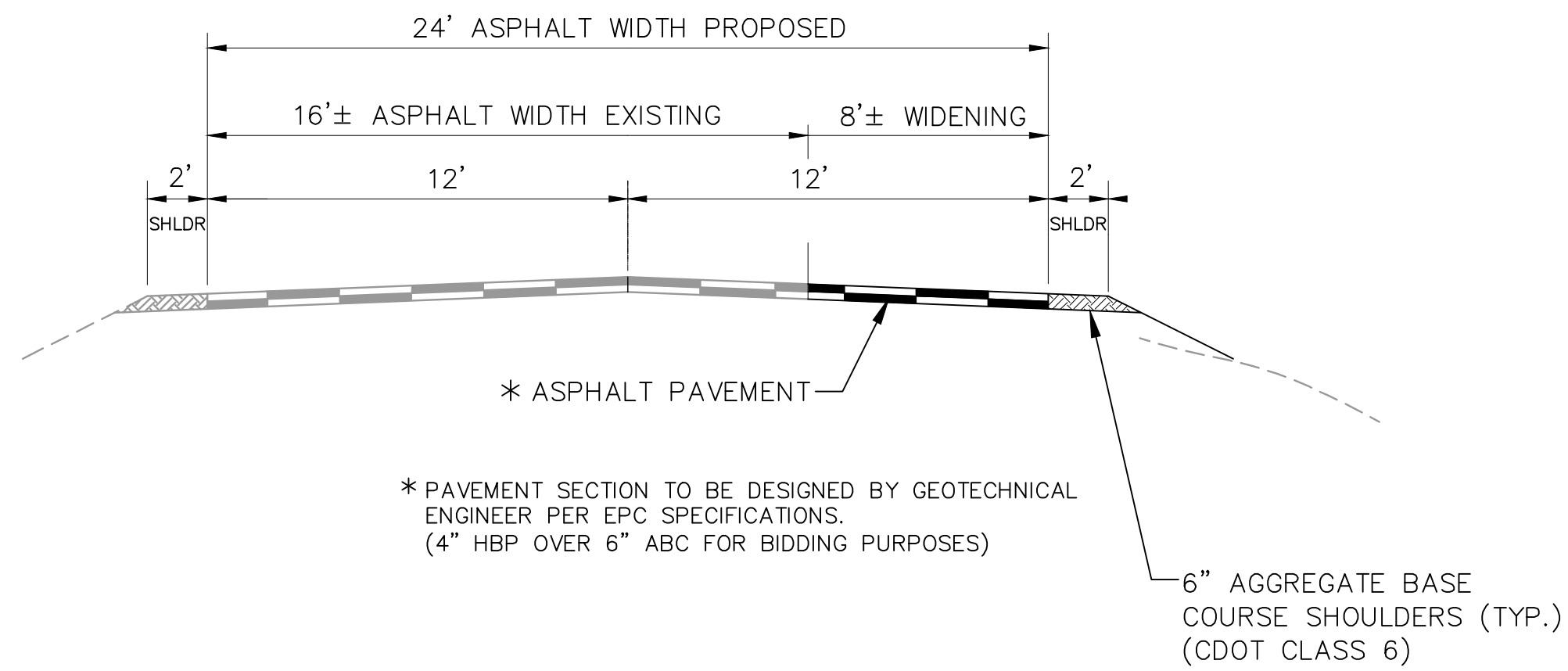
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No.	REVISION	BY	DATE

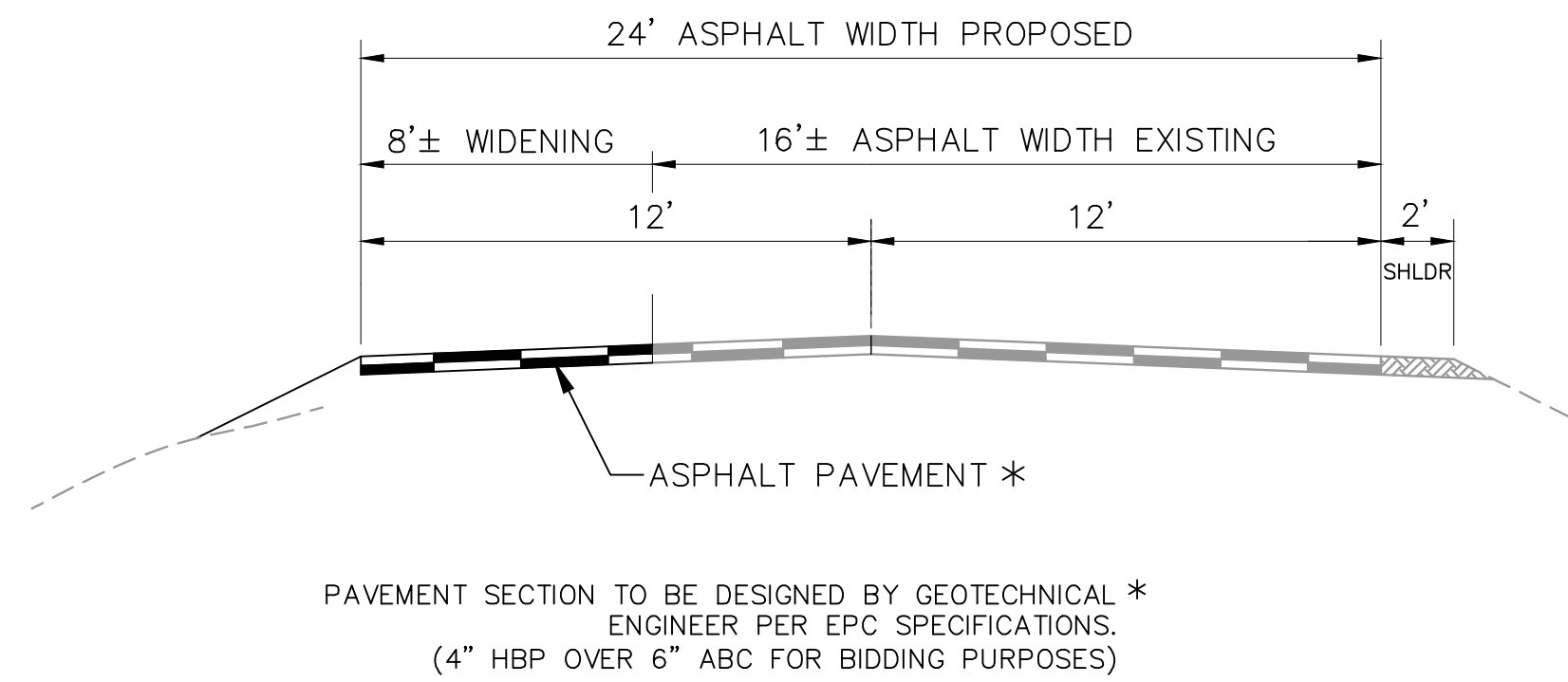
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VERT. SCALE:	N/A	DESIGNED:	JPS
SURVEYED:	COMPASS	CHECKED:	JPS
CREATED:	4/3/25	LAST MODIFIED:	10/17/25
PROJECT NO:	122401	MODIFIED BY:	MSP

SHEET: **G2.0**

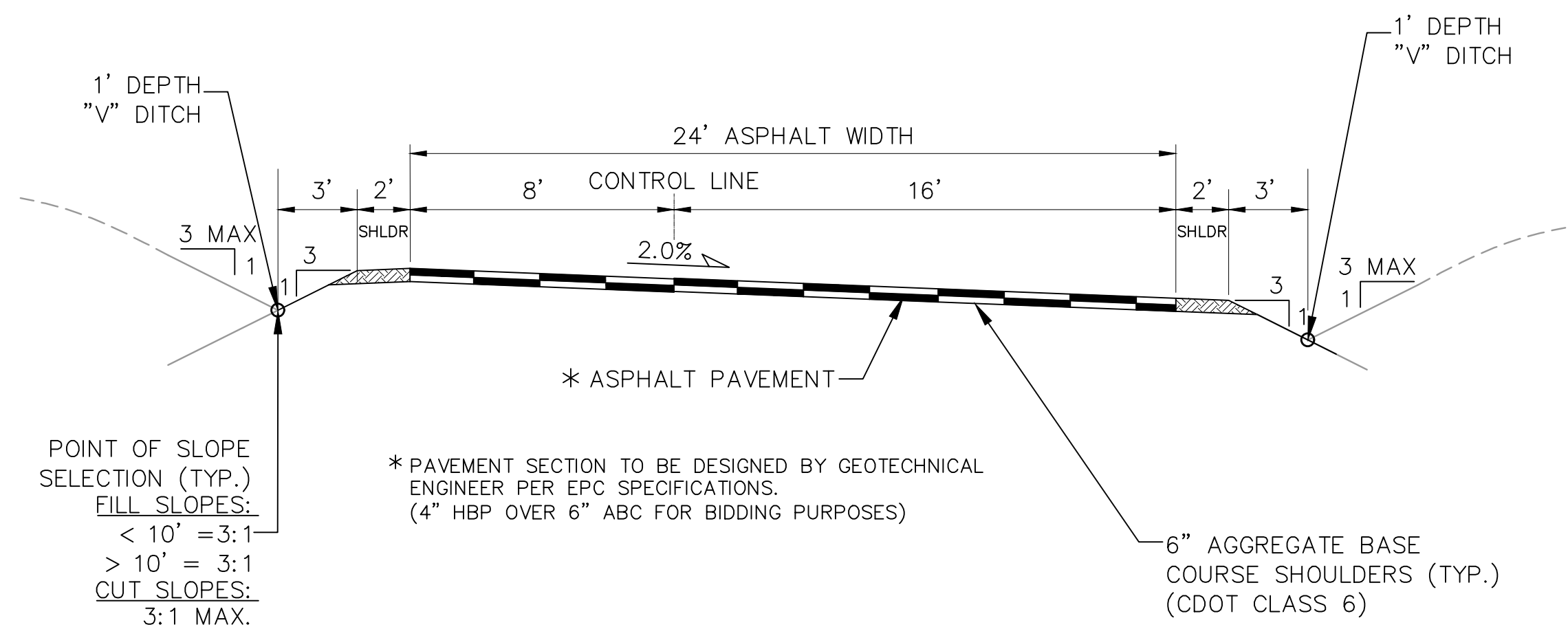
PCD FILE NO. PPR-2423



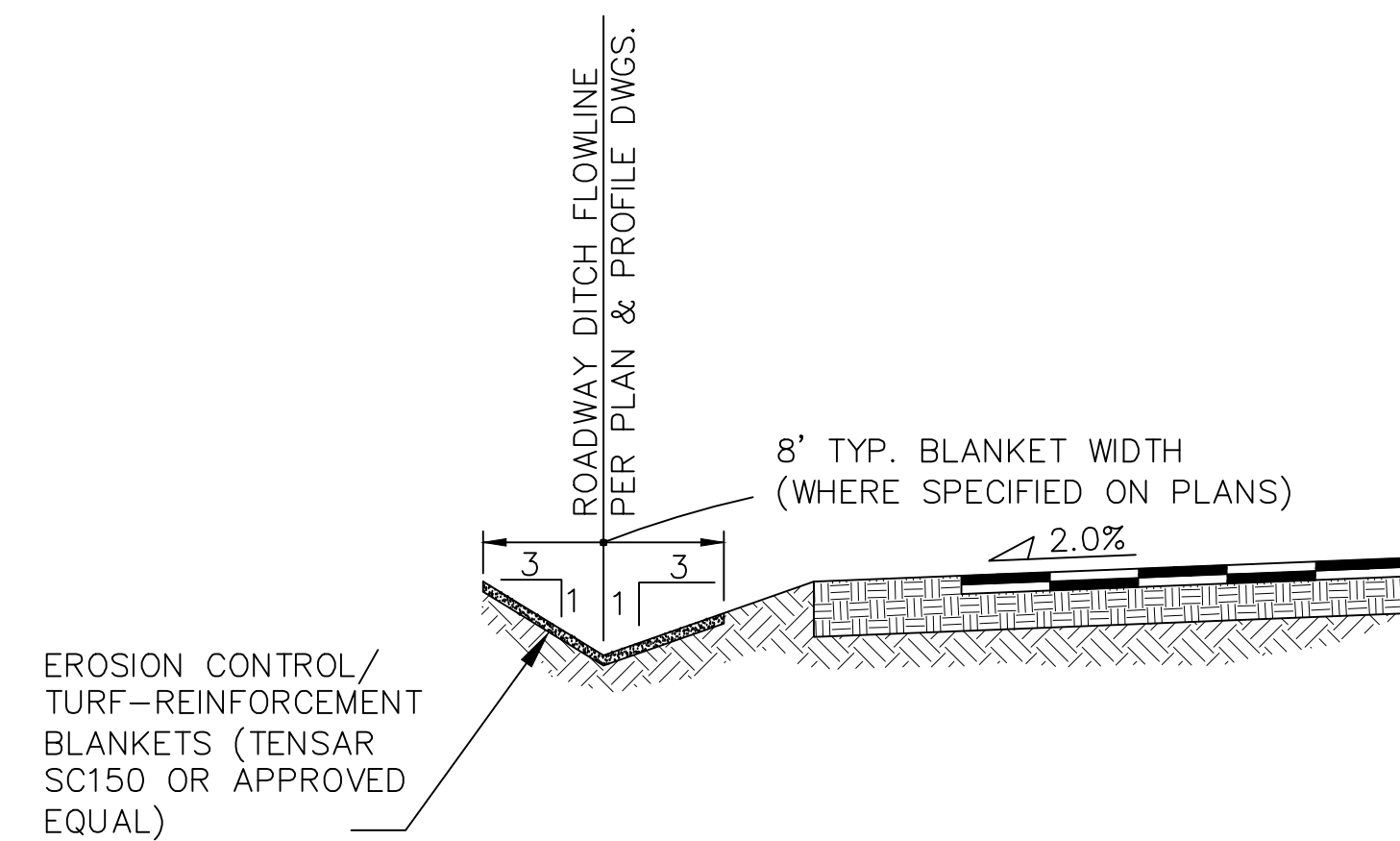
24'W PRIVATE MAIN ENTRY DRIVEWAY (2-WAY)
TYPICAL SECTION (A)
N.T.S.



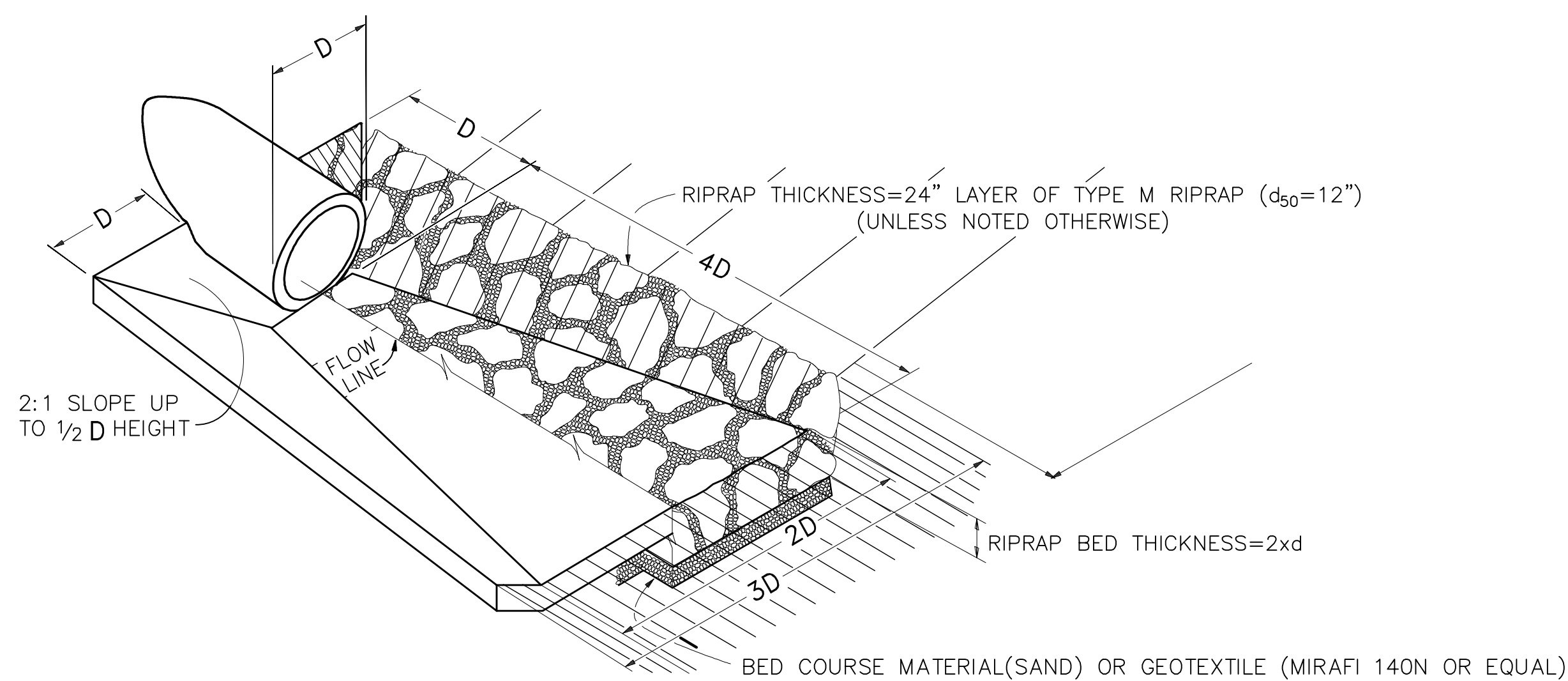
24'W PRIVATE MAIN ENTRY DRIVEWAY (2-WAY)
TYPICAL SECTION (B)
N.T.S.



24'W WEST PRIVATE INTERIOR DRIVEWAY (2-WAY)
TYPICAL SECTION (C)
N.T.S.

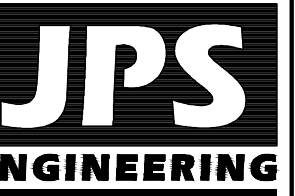


TYPICAL DITCH SECTION WITH EROSION CONTROL BLANKETS
SCALE : NTS

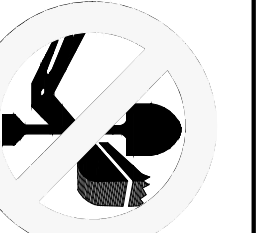


TYPICAL RIPRAP APRON/CULVERT OUTLET PAVING
NOT TO SCALE

◆ BENCHMARK:
12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE. ELEV.=7160.57(NAVD88)



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HAVEN FOREST SCHOOL
5490 Burgess Road, El Paso County, CO

No.	REVISION	BY	DATE

TYPICAL SECTIONS & DETAILS

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CREATED: 4/3/25	LAST MODIFIED: 11/7/25
PROJECT NO: 122401	MODIFIED BY: MSP
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PCD FILE NO. PPR-2423

TY1

CONTROL MEASURE PHASING PLAN:

INITIAL CONTROL MEASURES:

- VTC AT SITE ACCESS
- STABILIZED STAGING AREA (SSA)
- SILT FENCE
- CONCRETE WASHOUT
- STOCKPILE PROTECTION

INTERIM CONTROL MEASURES:

- CULVERT INLET PROTECTION
- SEDIMENT CONTROL LOGS
- TEMPORARY SEDIMENT BASIN
- EROSION CONTROL BLANKETS
- INLET PROTECTION
- TURF REINFORCEMENT MATS

FINAL CONTROL MEASURES:

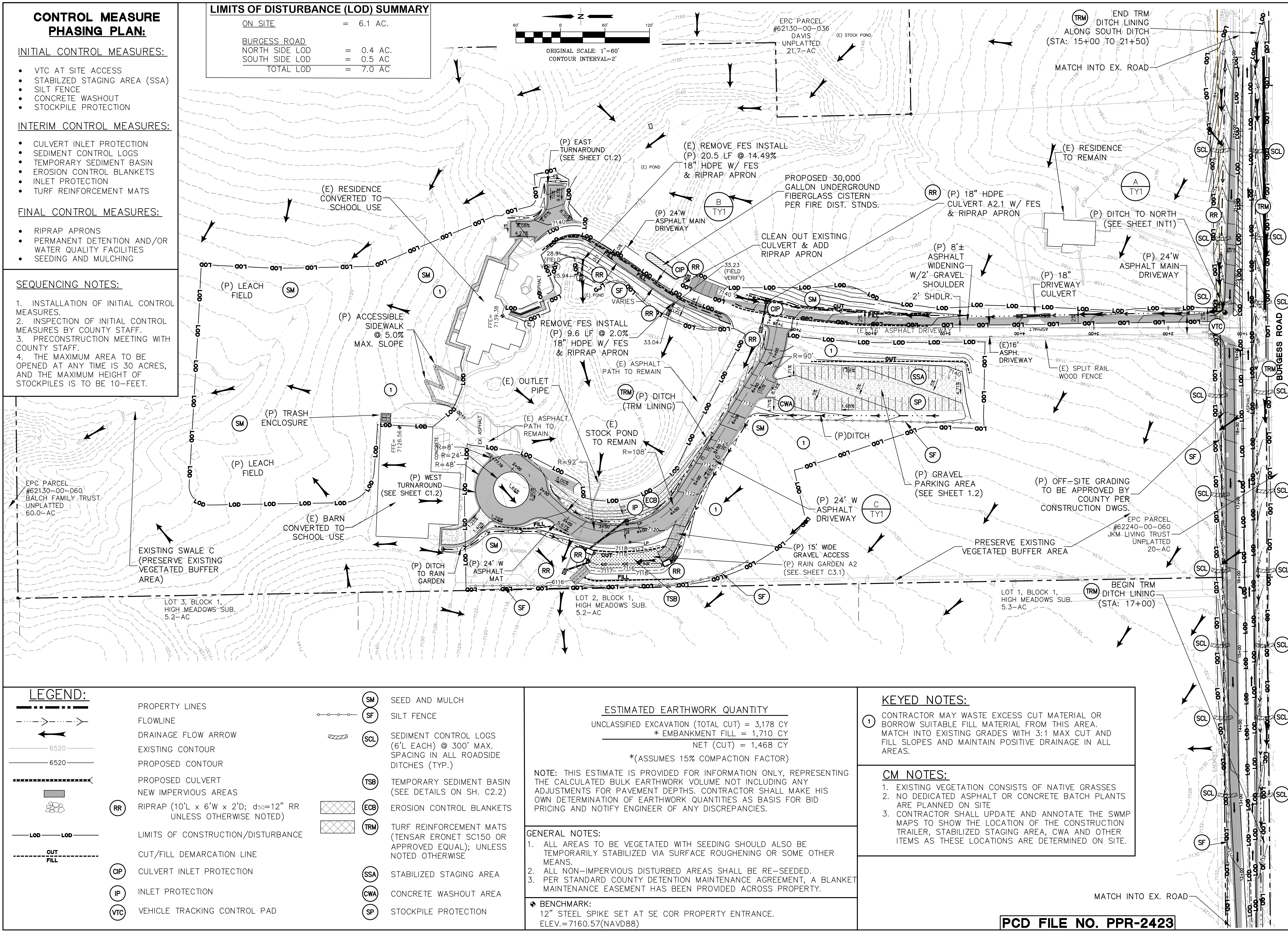
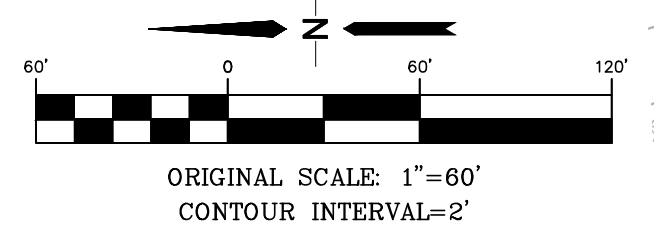
- RIPRAP APRONS
- PERMANENT DETENTION AND/OR WATER QUALITY FACILITIES
- SEEDING AND MULCHING

SEQUENCING NOTES:

1. INSTALLATION OF INITIAL CONTROL MEASURES.
2. INSPECTION OF INITIAL CONTROL MEASURES BY COUNTY STAFF.
3. PRECONSTRUCTION MEETING WITH COUNTY STAFF.
4. THE MAXIMUM AREA TO BE OPENED AT ANY TIME IS 30 ACRES, AND THE MAXIMUM HEIGHT OF STOCKPILES IS TO BE 10- FEET.

LIMITS OF DISTURBANCE (LOD) SUMMARY

ON SITE	= 6.1 AC.
BURGESS ROAD NORTH SIDE LOD	= 0.4 AC.
BURGESS ROAD SOUTH SIDE LOD	= 0.5 AC.
TOTAL LOD	= 7.0 AC.



LEGEND:

	PROPERTY LINES		SEED AND MULCH
	FLOWLINE		SILT FENCE
	DRAINAGE FLOW ARROW		SEDIMENT CONTROL LOGS (6'L EACH) @ 300' MAX. SPACING IN ALL ROADSIDE DITCHES (TYP.)
	EXISTING CONTOUR		TEMPORARY SEDIMENT BASIN (SEE DETAILS ON SH. C2.2)
	PROPOSED CONTOUR		EROSION CONTROL BLANKETS
	PROPOSED CULVERT		TURF REINFORCEMENT MATS (TENSAR ERONET SC150 OR APPROVED EQUAL); UNLESS NOTED OTHERWISE
	NEW IMPERVIOUS AREAS		STABILIZED STAGING AREA
	RIPRAP (10'L x 6'W x 2'D; d50=12\"/>		
	LIMITS OF CONSTRUCTION/DISTURBANCE		CONCRETE WASHOUT AREA
	CUT/FILL DEMARCATION LINE		STOCKPILE PROTECTION
	CULVERT INLET PROTECTION		
	INLET PROTECTION		
	VEHICLE TRACKING CONTROL PAD		

ESTIMATED EARTHWORK QUANTITY

UNCLASSIFIED EXCAVATION (TOTAL CUT) = 3,178 CY
 * EMBANKMENT FILL = 1,710 CY
 NET (CUT) = 1,468 CY
 *(ASSUMES 15% COMPACTION FACTOR)

NOTE: THIS ESTIMATE IS PROVIDED FOR INFORMATION ONLY, REPRESENTING THE CALCULATED BULK EARTHWORK VOLUME NOT INCLUDING ANY ADJUSTMENTS FOR PAVEMENT DEPTHS. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES AS BASIS FOR BID PRICING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

GENERAL NOTES:

1. ALL AREAS TO BE VEGETATED WITH SEEDING SHOULD ALSO BE TEMPORARILY STABILIZED VIA SURFACE ROUGHENING OR SOME OTHER MEANS.
2. ALL NON-IMPERVIOUS DISTURBED AREAS SHALL BE RE-SEEDING.
3. PER STANDARD COUNTY DETENTION MAINTENANCE AGREEMENT, A BLANKET MAINTENANCE EASEMENT HAS BEEN PROVIDED ACROSS PROPERTY.

◆ BENCHMARK:
 12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE.
 ELEV.=7160.57(NAVD88)

KEYED NOTES:

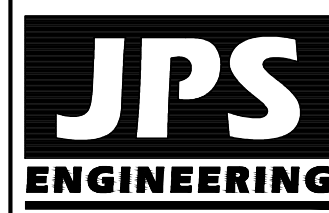
1. CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA. MATCH INTO EXISTING GRADES WITH 3:1 MAX CUT AND FILL SLOPES AND MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.

CM NOTES:

1. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES
2. NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS ARE PLANNED ON SITE
3. CONTRACTOR SHALL UPDATE AND ANNOTATE THE SWMP MAPS TO SHOW THE LOCATION OF THE CONSTRUCTION TRAILER, STABILIZED STAGING AREA, CWA AND OTHER ITEMS AS THESE LOCATIONS ARE DETERMINED ON SITE.

HAVEN FOREST SCHOOL
 5490 BURGESS ROAD, EL PASO COUNTY, CO

SITE GRADING & EROSION CONTROL PLAN



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No.	REVISION	DATE

HORIZ. SCALE: 1"=60'	DRAWN: PV
VERT. SCALE: N/A	DESIGNED: JPS
SURVEYED: COMPASS	CHECKED: JPS
CREATED: 4/3/25	LAST MODIFIED: 05/14/26
PROJECT NO: 122401	MODIFIED BY: PV

PCD FILE NO. PPR-2423

C1.1

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

- 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 (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).
- CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCM(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCM(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).
- ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.
- PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.
- 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 RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.
- TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCs MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- ANY TEMPORARY OR PERMANENT CONTROL MEASURE 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.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER, PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA).
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE, AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.
- 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.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS 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 CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT'S (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND. IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE 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.
- THE PERMIT HOLDER(S) 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.
- MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT 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 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.
- ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.
- PERMIT HOLDER(S) 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, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. 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.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
 COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WQCD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT

SEEDING MIX:

GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
CRESTED WHEAT GRASS	EPHRAIM OR HYCREST	4.0 LBS.
PERENIAL RYE	LINN	2.0 LBS.
WESTERN WHEATGRASS	SARTON	3.0 LBS.
SMOOTH BROME GRASS	LINCOLN OR MANCHAR	5.0 LBS.
SIDEOATS GRAMA	EPHRAIM	2.5 LBS.
TOTAL:		16.5 LBS.

SEEDING & FERTILIZER APPLICATION: DRILL SEED OR HYDRO-SEED PER CDOT SPEC. SECTION 212.

MULCHING APPLICATION: CONFORM TO CDOT SPEC-SECTION 213.

ESTIMATED TIME SCHEDULE:

INSTALL BMP'S	JULY, 2026
GRADING START	JULY, 2026
GRADING COMPLETION	SEPTEMBER, 2027
SEEDING & MULCHING	SEPTEMBER, 2027
STABILIZATION	OCTOBER, 2028

SEDIMENT CONTROL MAINTENANCE PROGRAM:

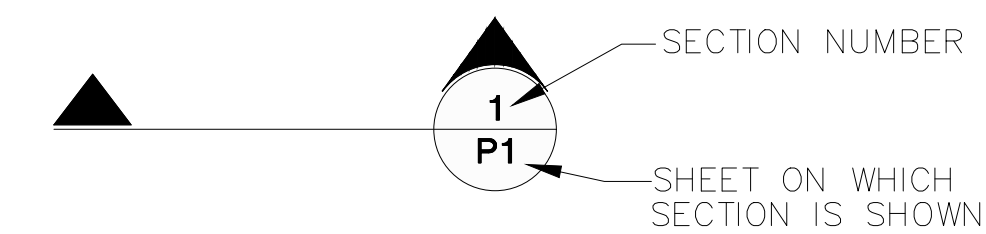
	FREQUENCY 1
PERIODIC SITE INSPECTIONS	BI-WEEKLY
RE-VEGETATION OF EXPOSED SOILS	WITHIN 21 DAYS OF GRADING ²
SEDIMENT REMOVAL FROM BMP'S	MONTHLY
REMOVAL OF BMP'S	AFTER STABILIZATION ACHIEVED

¹ AND AFTER ANY PRECIPITATION OR SNOW MELT EVENT THAT CAUSES SURFACE EROSION.

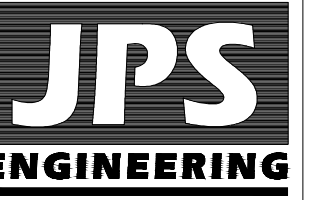
² ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTION OF THE BMP.

LEGEND:

NEW	EXISTING	
---	---	SECTION LINE
---	---	EASEMENT LINE
---6230---	---6230---	CONTOUR
---	---	PROPERTY
○-○-○-○	○-○-○-○	FENCE
---OHE---OHE---	---OHE---OHE---	OVERHEAD ELECTRIC LINE W/ POWER POLE
---UGE---	---UGE---	UNDERGROUND ELECTRIC LINE
---UGE---	---UGE---	UNDERGROUND ELECTRIC
---TEL---	---TEL---	TELEPHONE
---GAS---	---GAS---	GAS
---WT---	---WT---	WATER
█		TRM-TURF REINFORCEMENT MAT
▨		EROSION CONTROL BLANKETS



HAVEN FOREST SCHOOL
5490 BURGESS ROAD, EL PASO COUNTY, CO



19 E. Willamette Ave.
 Colorado Springs, CO
 80903

PH: 719-477-9429
 FAX: 719-471-0766
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 CENTER OF COLORADO
1-800-922-1987
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE ANY EXCAVATION OR
 BEFORE THE MARKING OF UNDERGROUND
 FOR THE MEMBER UTILITIES.

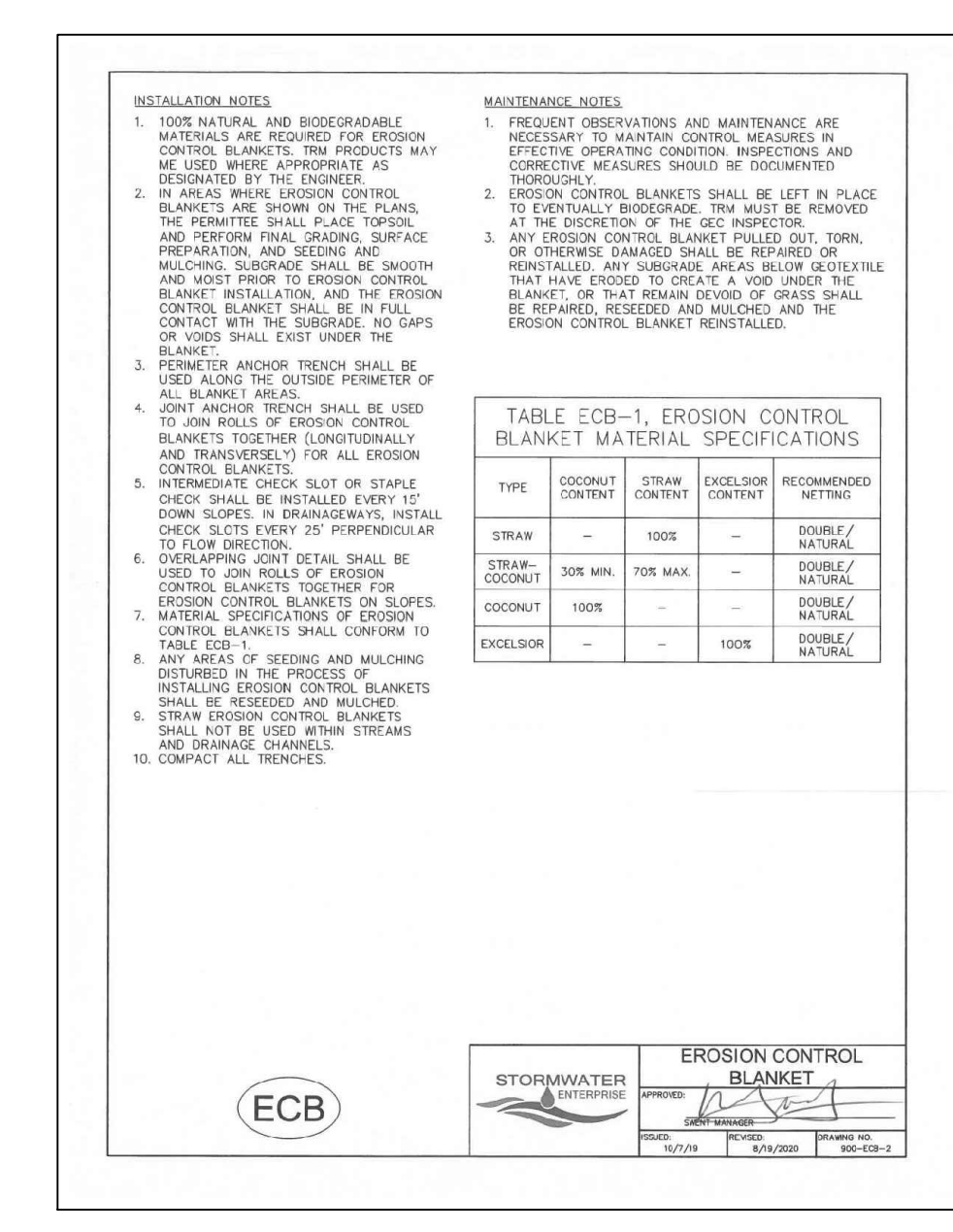
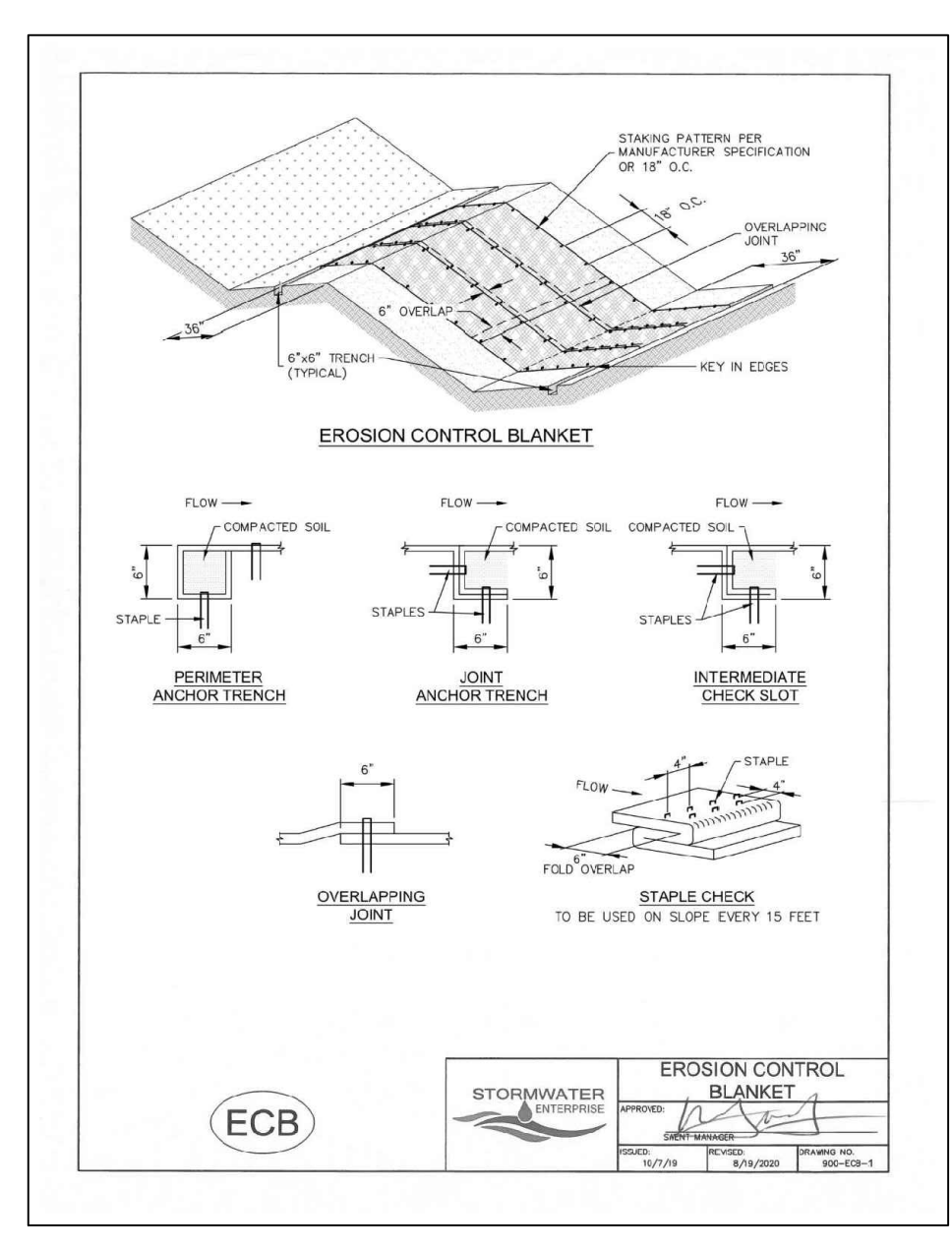
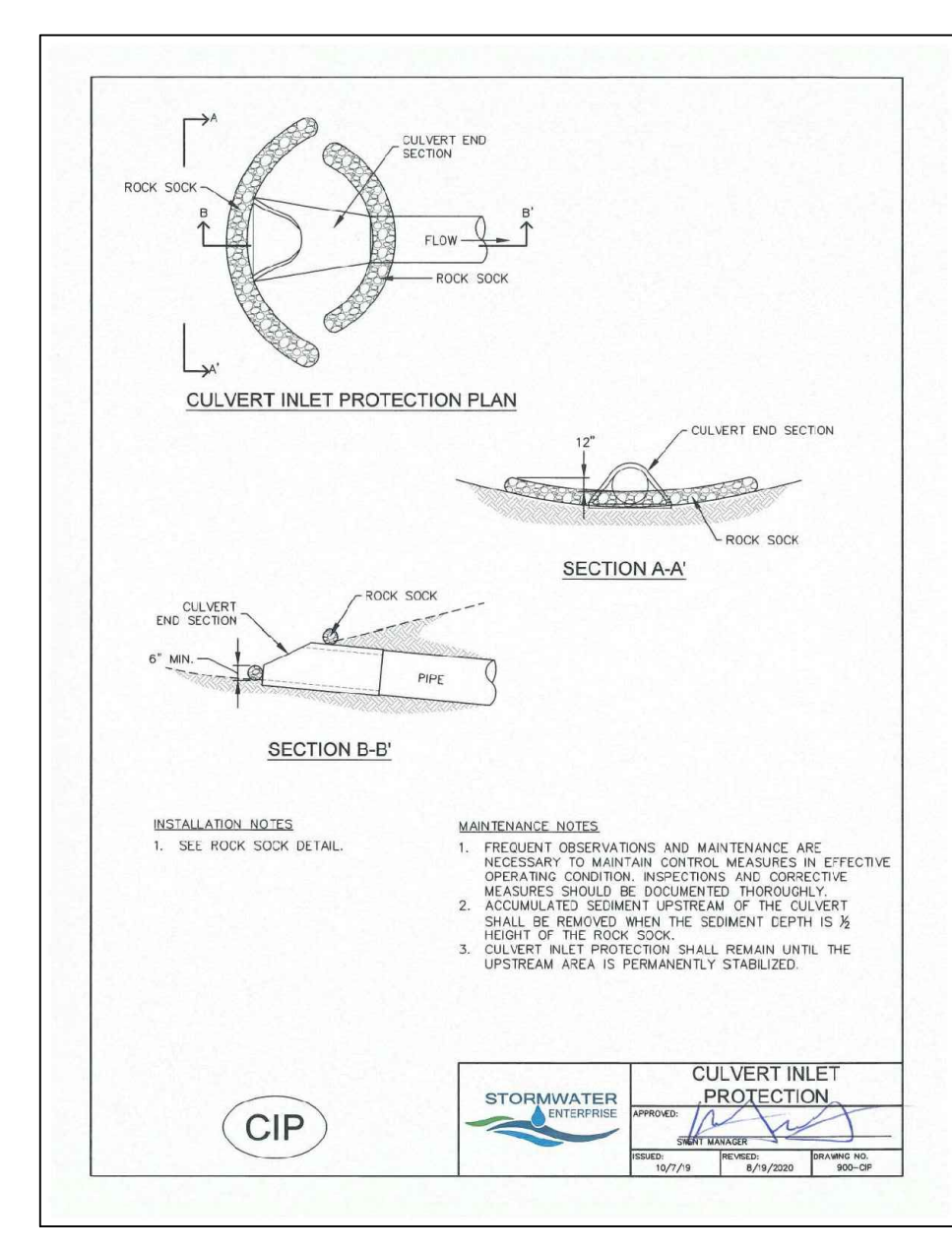
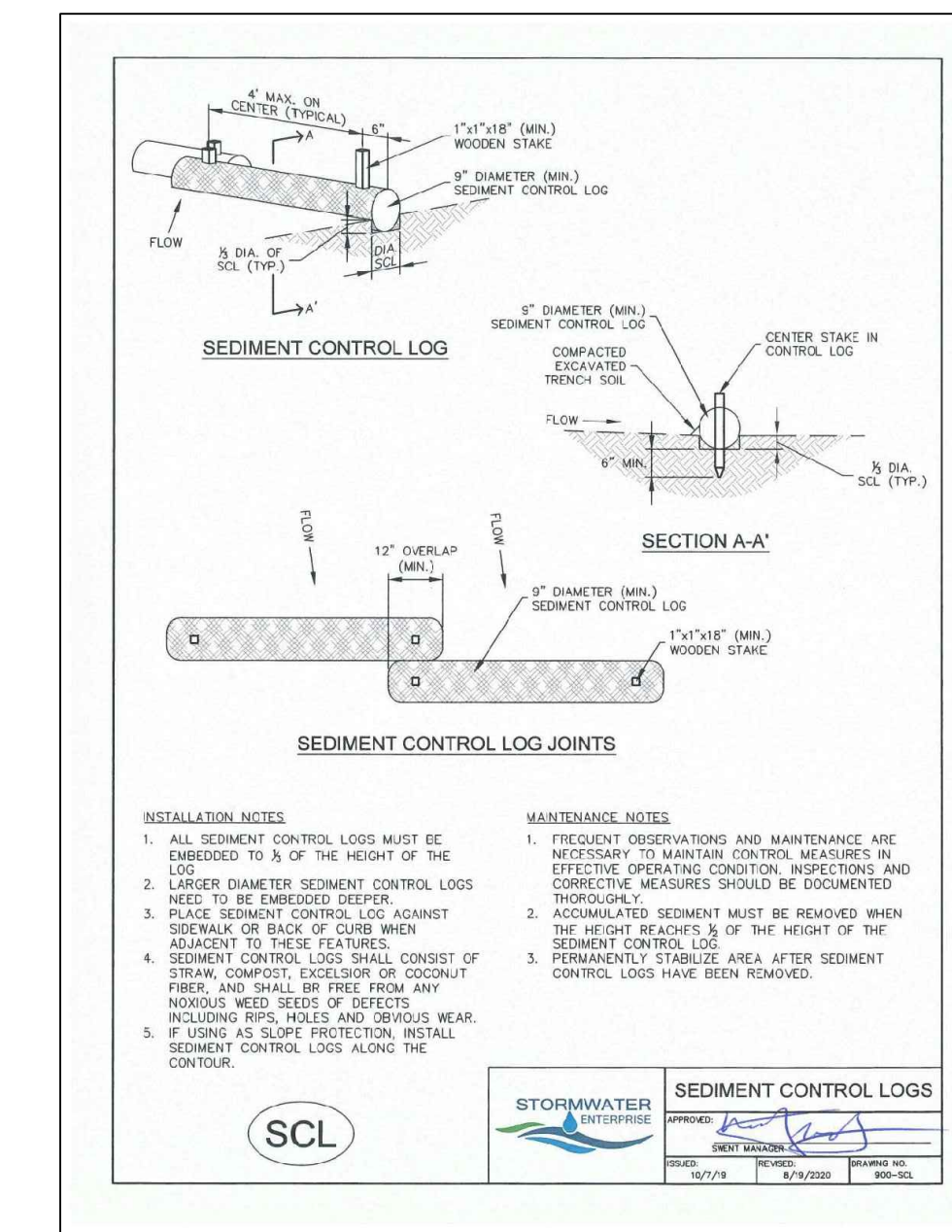
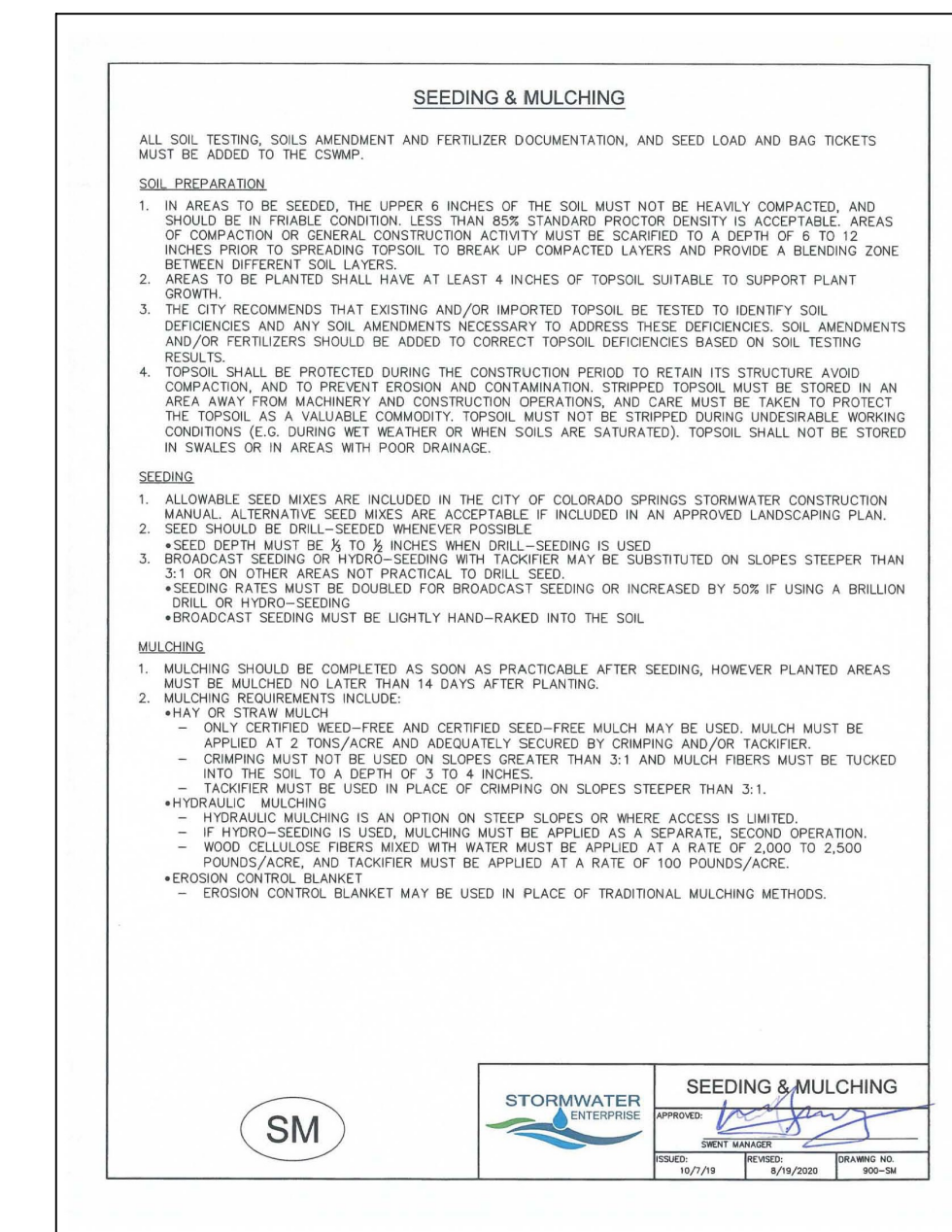
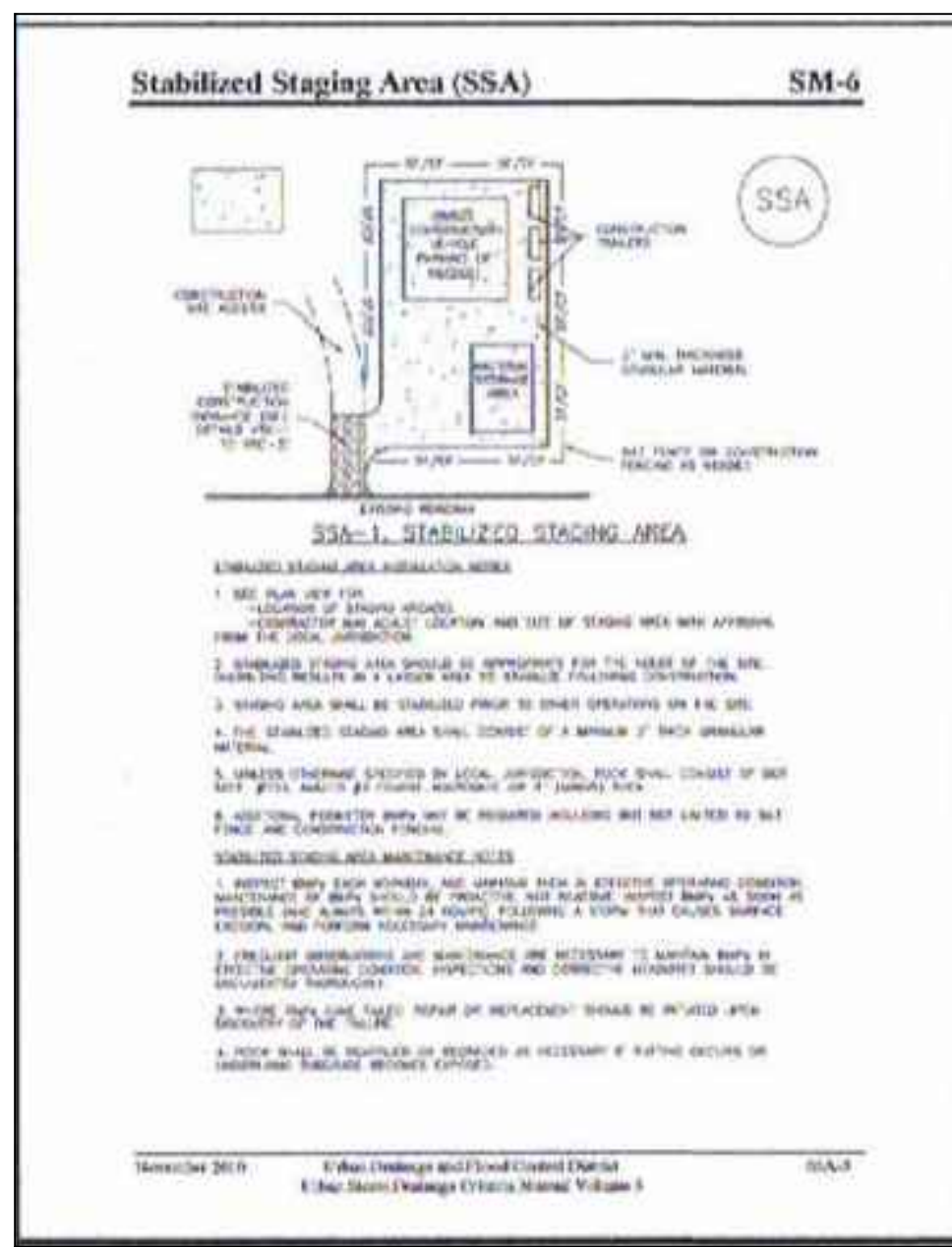
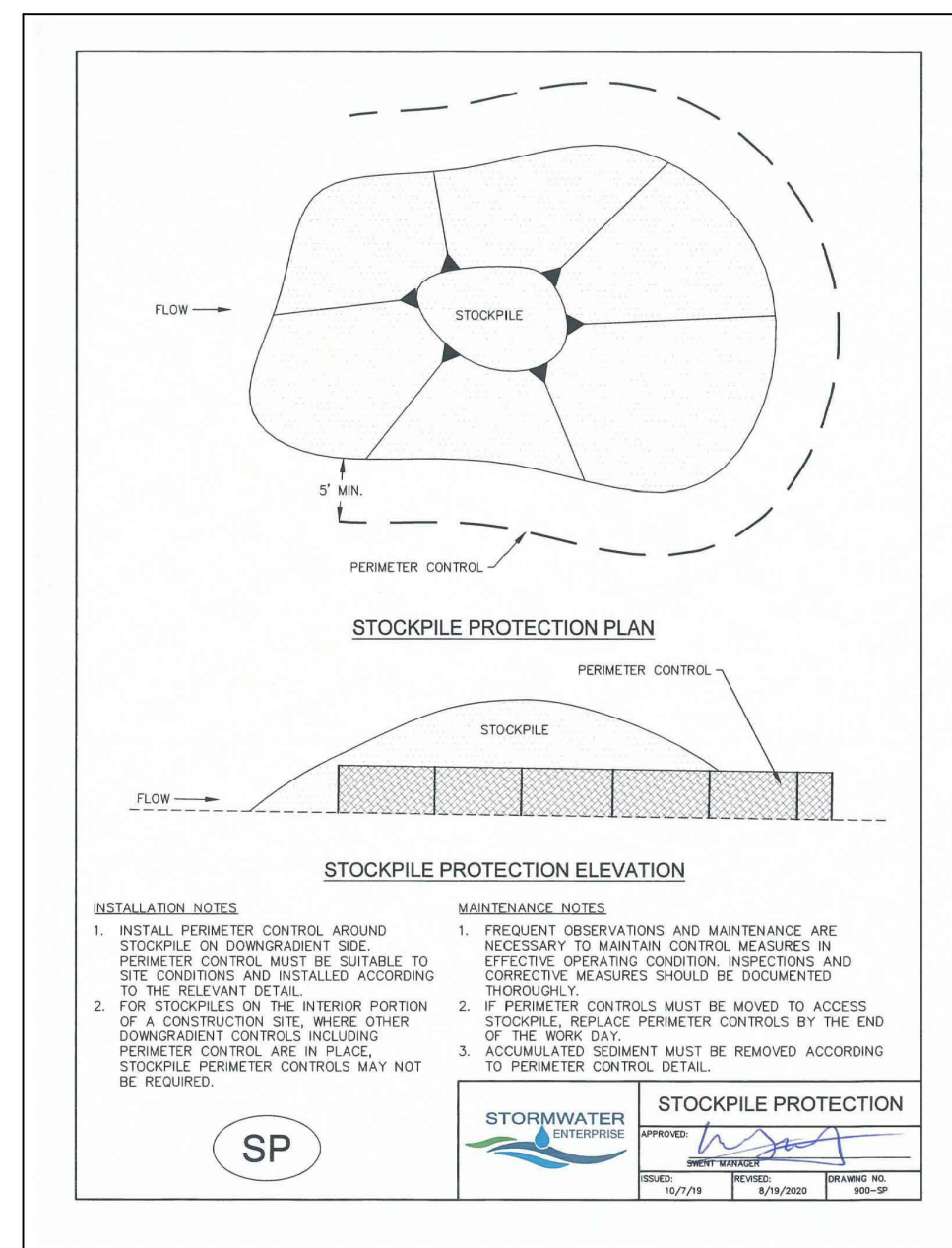
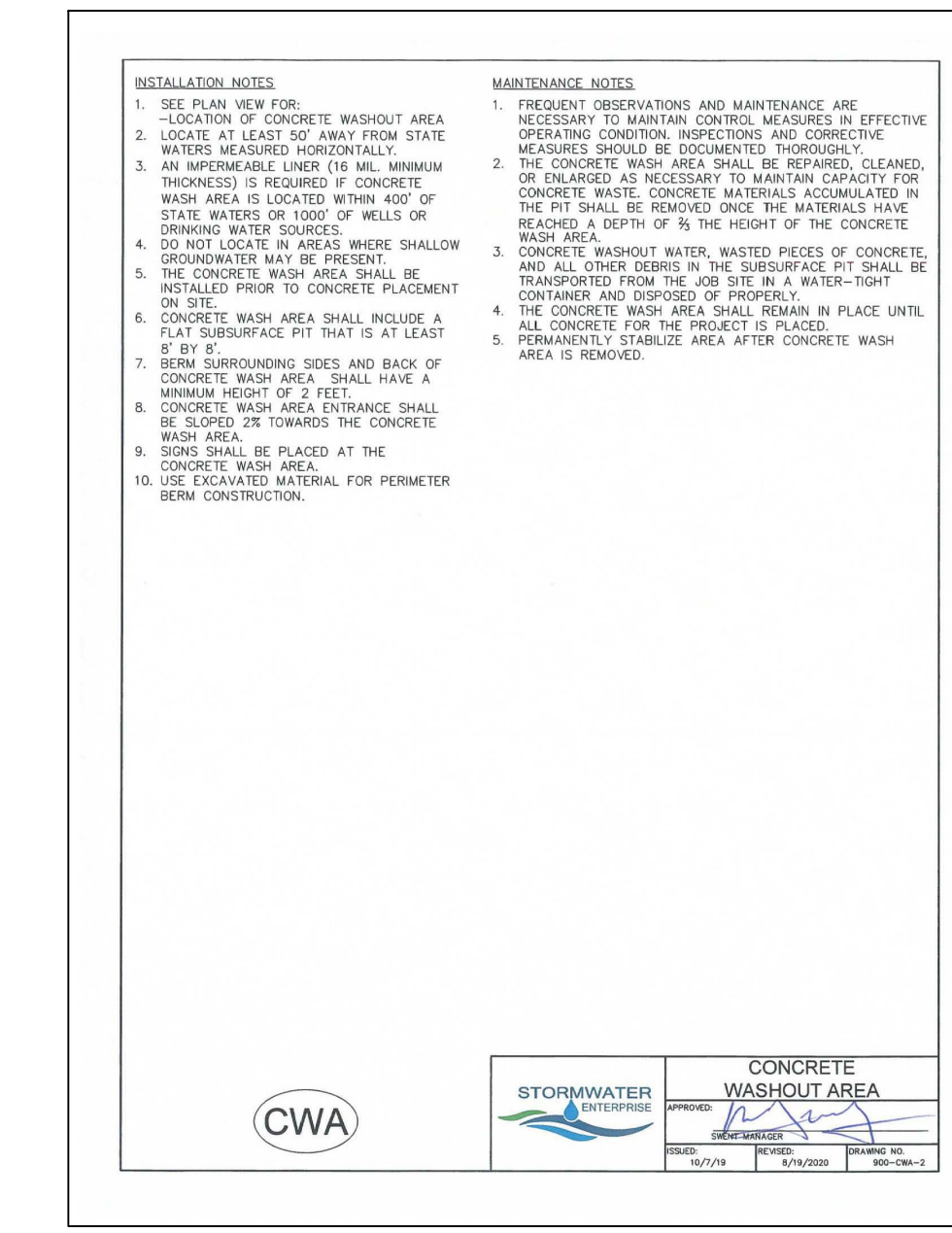
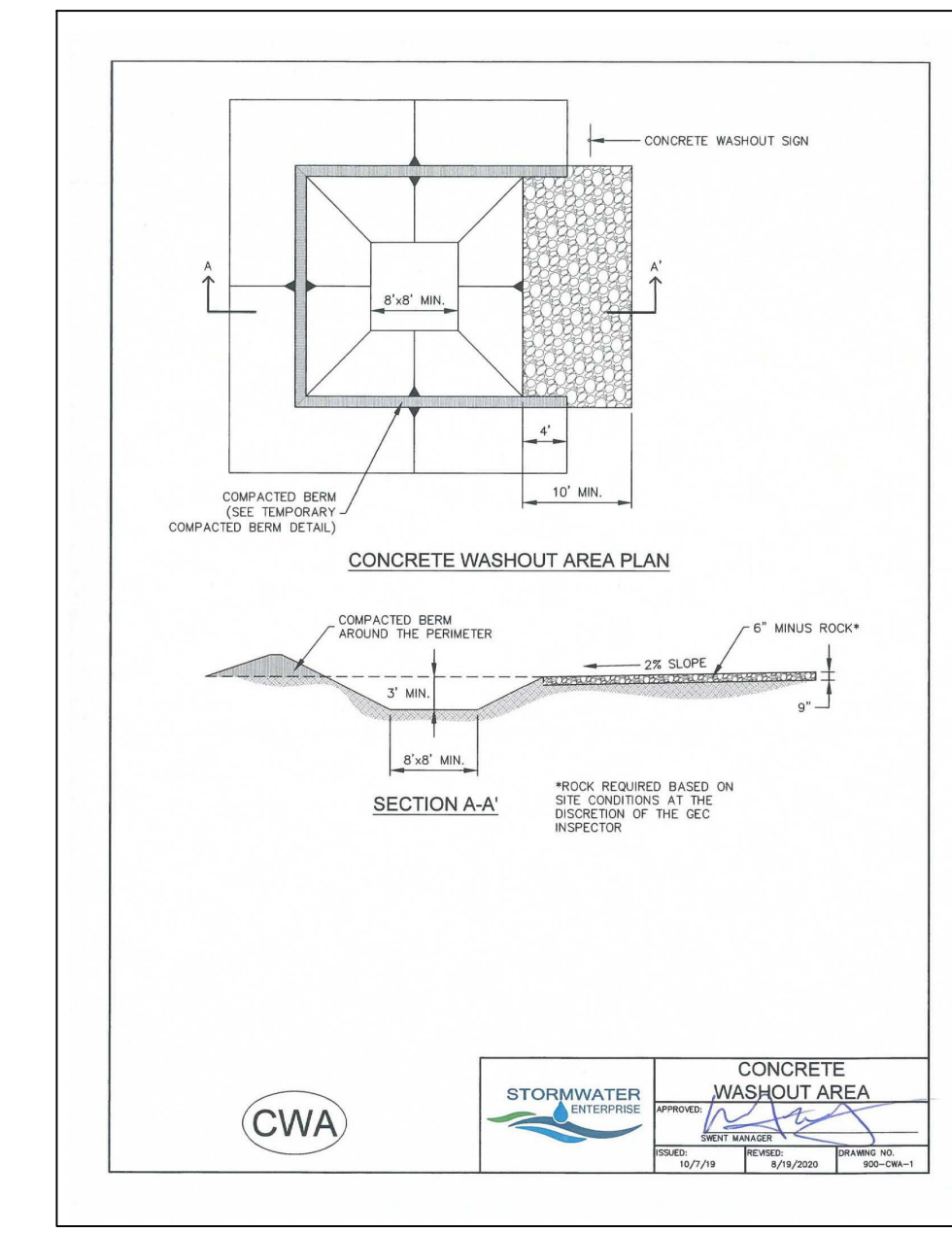
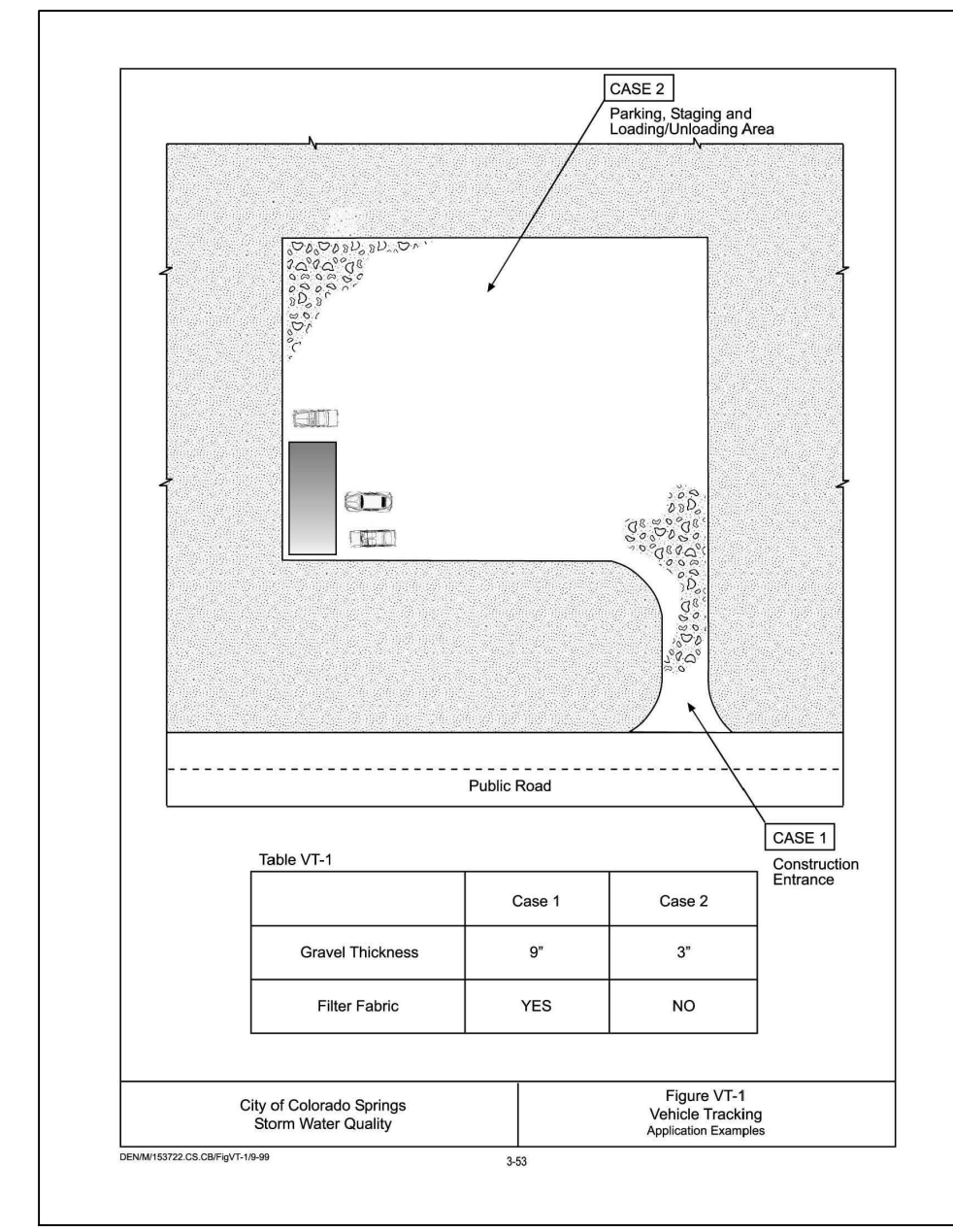
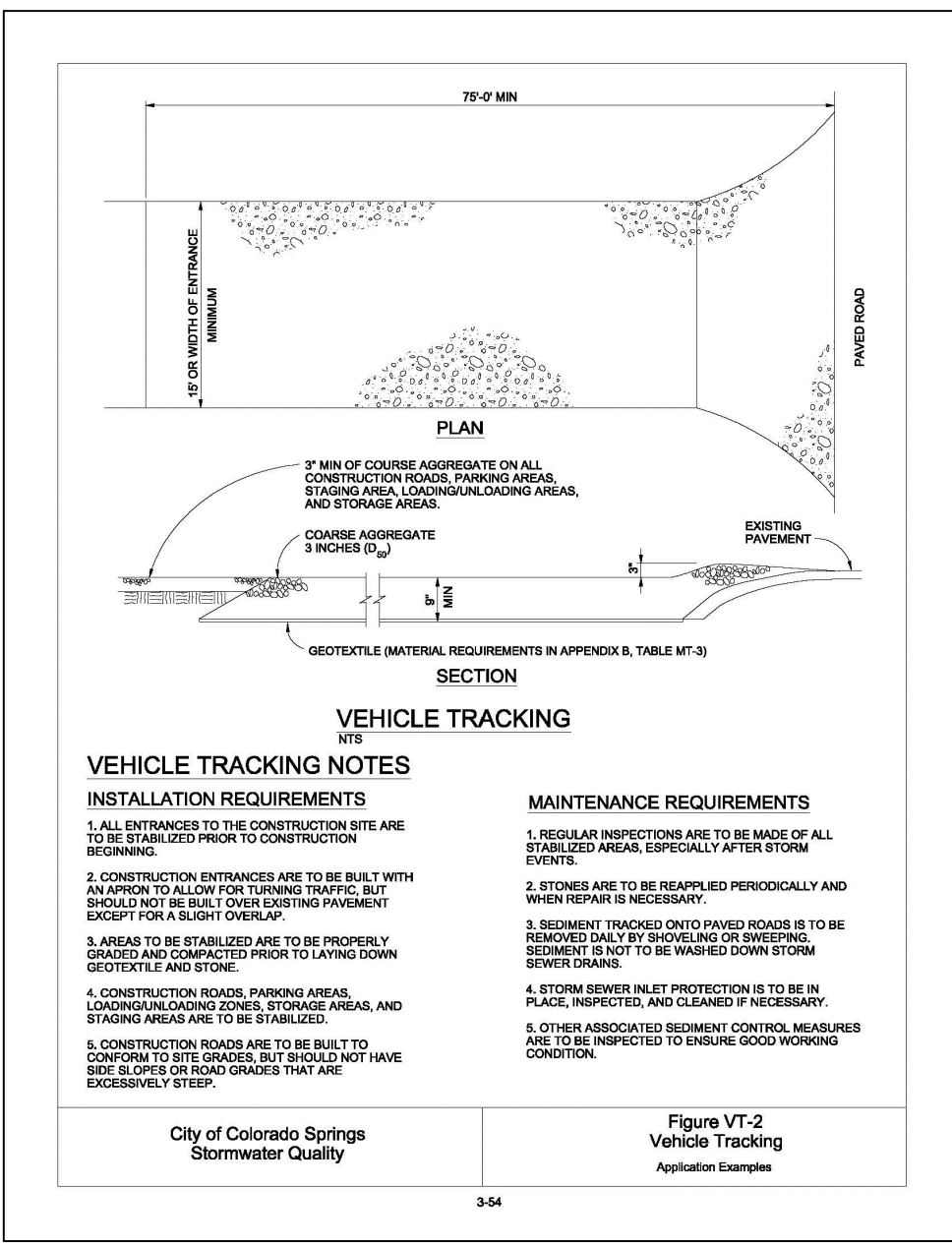
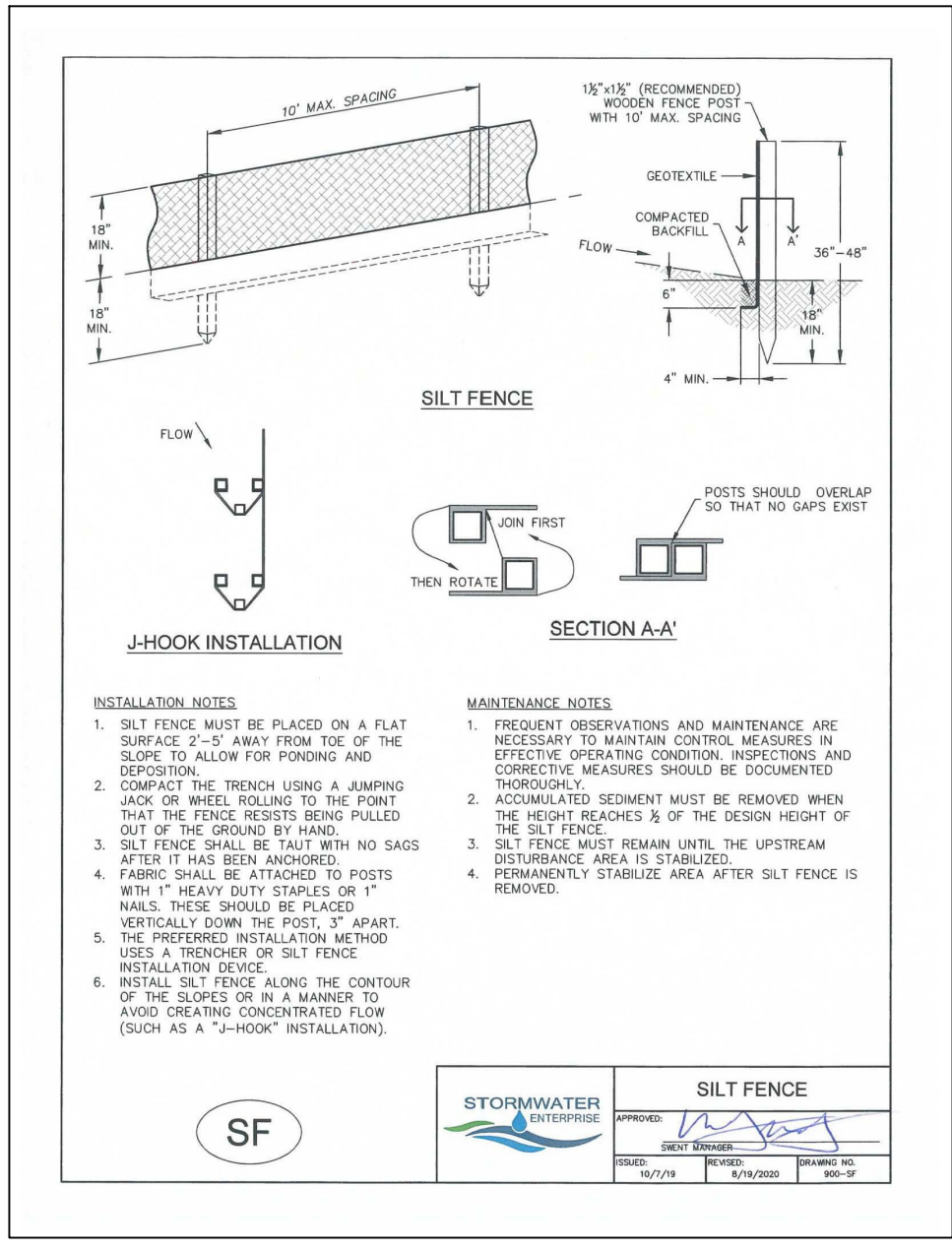
NO.	REVISION	DATE

**GRADING & EROSION
 CONTROL NOTES**

HORZ. SCALE: N/A	DRAWN: PV
VERT. SCALE: N/A	DESIGNED: JPS
SURVEYED: COMPASS	CHECKED: JPS
CREATED: 4/3/25	LAST MODIFIED: 05/08/26
PROJECT NO: 122401	MODIFIED BY: PV

SHEET: **C2.1**

PCD FILE NO. PPR-2423



SEEDING MIX:

GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
CRESTED WHEAT GRASS	EPHRAIM OR HYCREST	4.0 LBS.
PERENIAL RYE	LINN	2.0 LBS.
WESTERN WHEATGRASS	SARTON	3.0 LBS.
SMOOTH BROME GRASS	LINCOLN OR MANCHAR	5.0 LBS.
SIDEOATS GRAMA	EPHRAIM	2.5 LBS.
TOTAL:		16.5 LBS.

SEEDING & FERTILIZER APPLICATION: DRILL SEED OR HYDRO-SEED PER CDOT SPEC. SECTION 212.

MULCHING APPLICATION: CONFORM TO CDOT SPEC-SECTION 213.

JPS ENGINEERING

19 E. Willomette Ave.
Colorado Springs, CO 80903

PH: 719-477-9429
FAX: 719-471-0766
www.jpsegr.com

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE THE MARKING OF UNDERGROUND MEMBER UTILITIES.

HAVEN FOREST SCHOOL
5490 BURGESS ROAD, EL PASO COUNTY, CO

NO.	REVISION	DATE

EROSION CONTROL DETAILS

HORZ. SCALE: N/A DRAWN: PV
VERT. SCALE: N/A DESIGNED: JPS
SURVEYED: COMPASS CHECKED: JPS
CREATED: 4/3/25 LAST MODIFIED: 05/07/26
PROJECT NO: 1224201 MODIFIED BY: PV
SHEET:

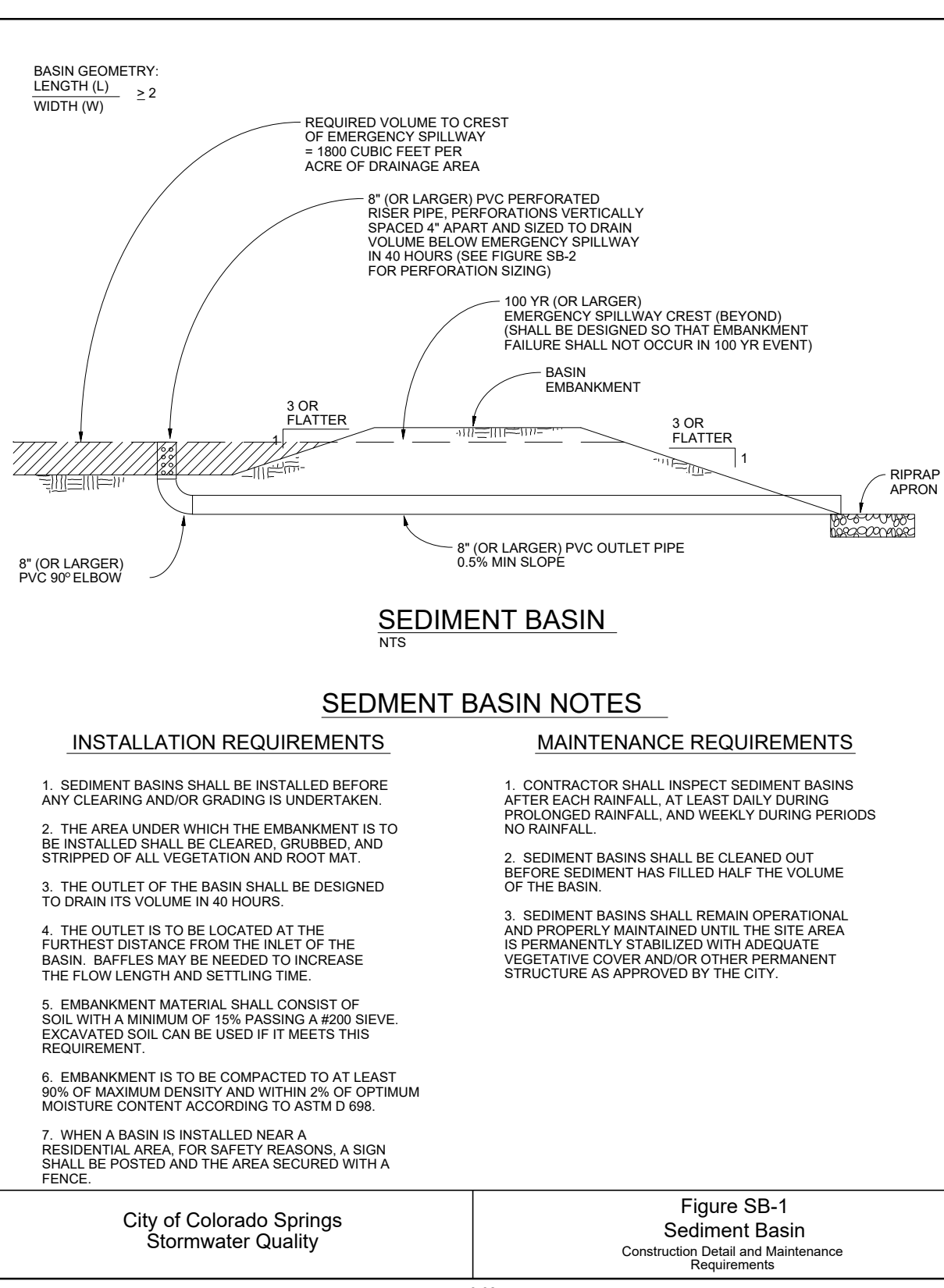
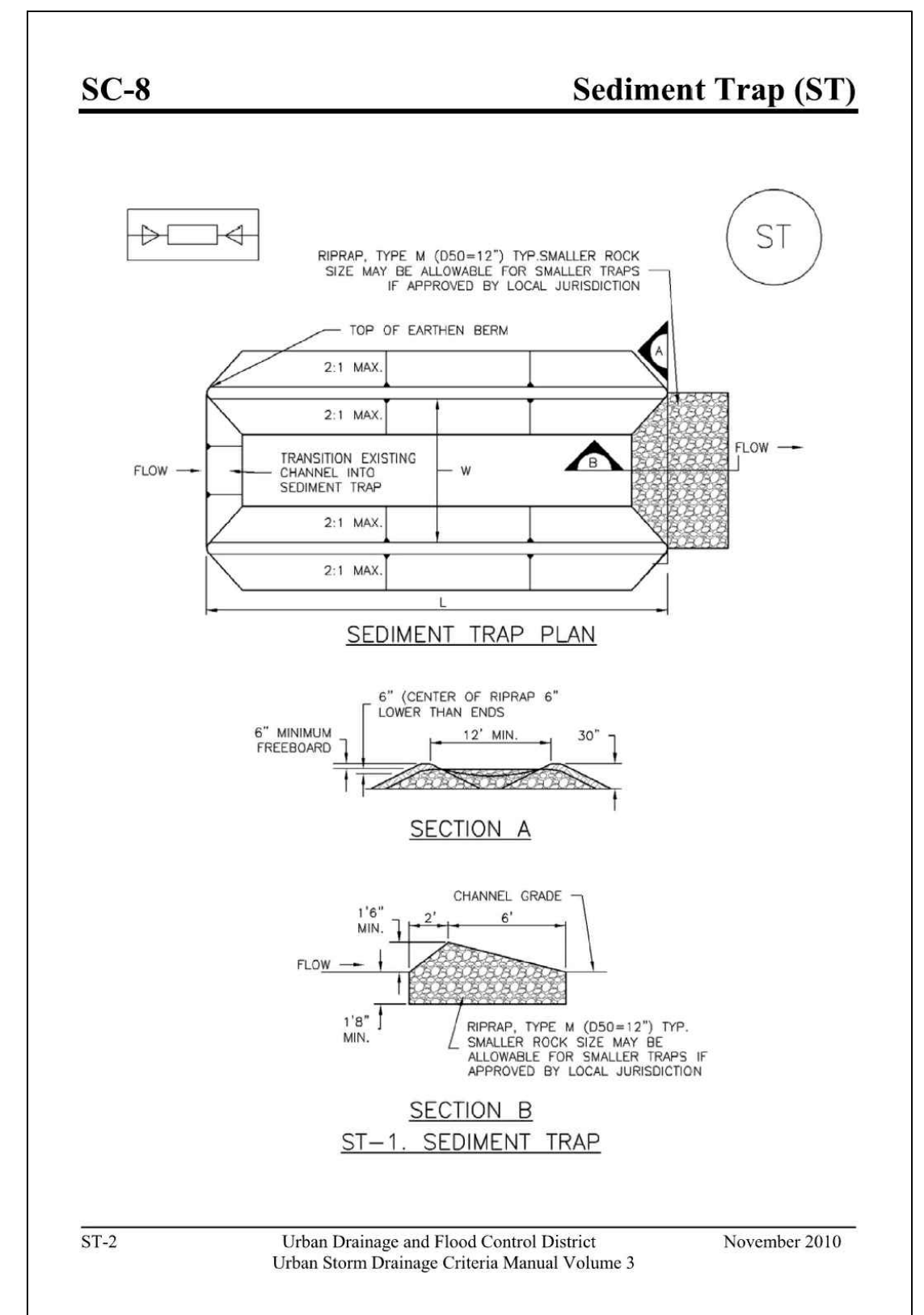
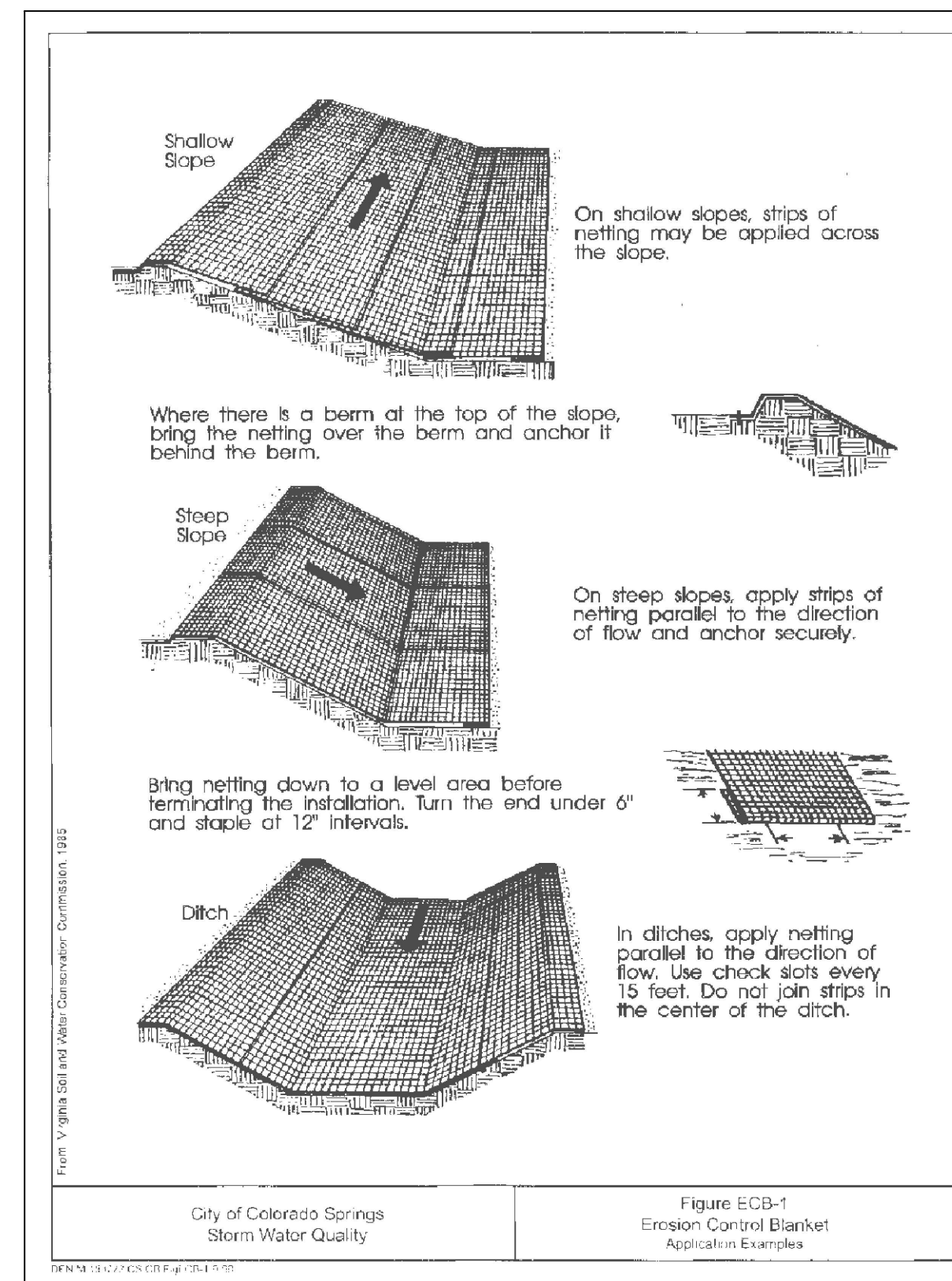
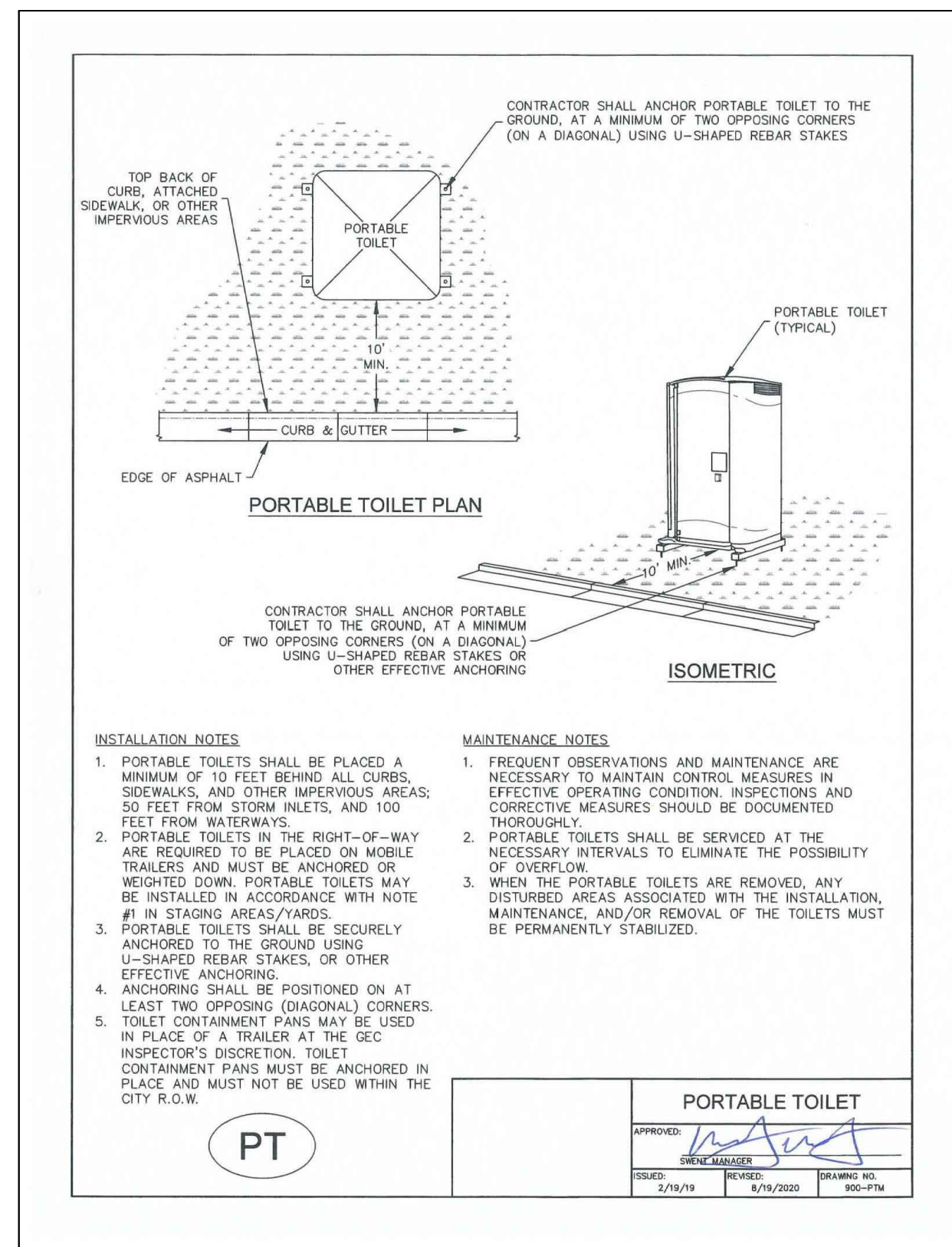
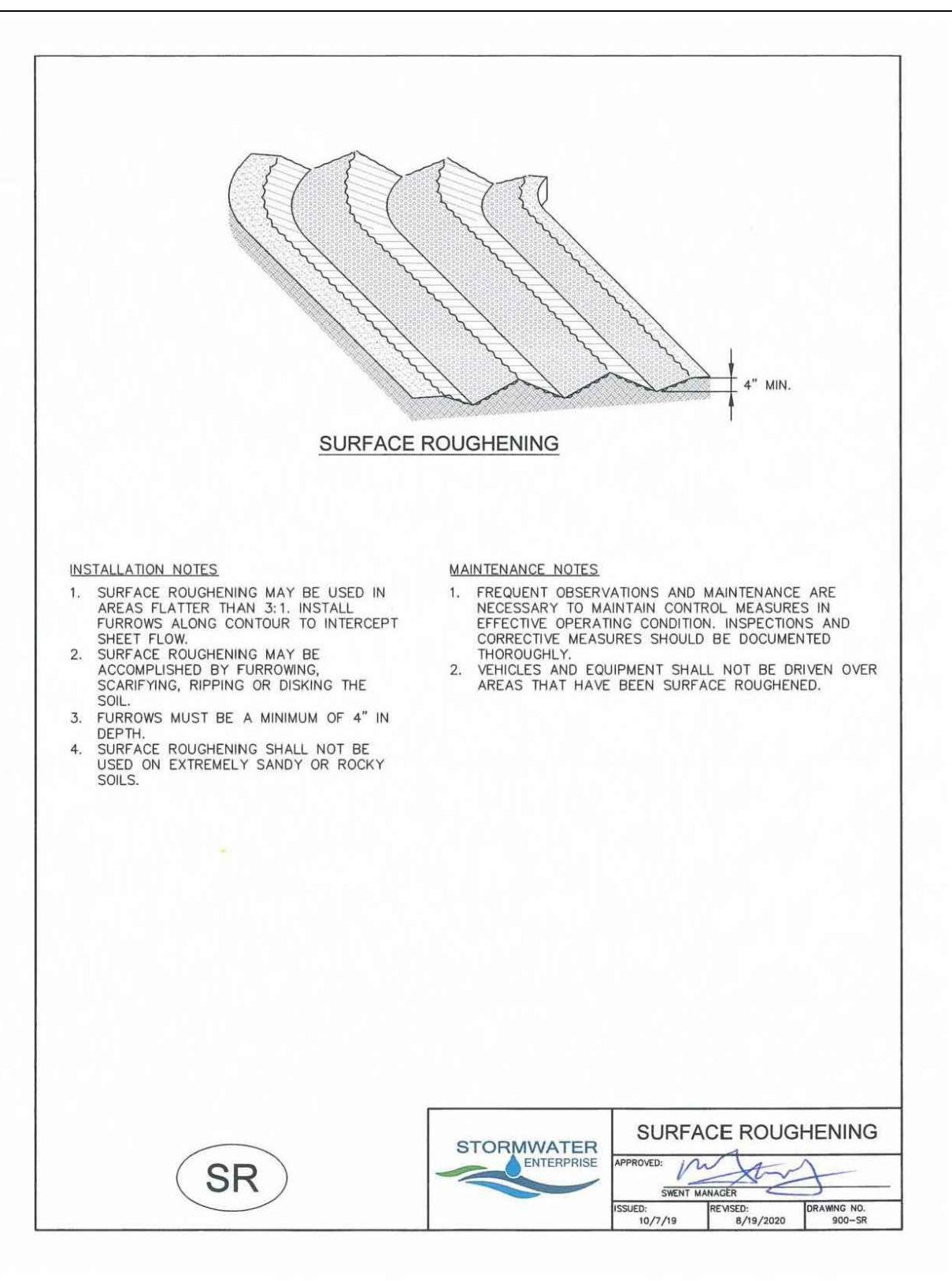


TABLE SB-1

Design Volume (acre-ft)	Depth at Outlet (ft)							
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
2	15.04	7.71	5.10	3.78	2.85	2.41	2.02	1.73
1	7.52	3.86	2.55	1.88	1.42	1.21	1.01	0.87
0.6	4.61	2.31	1.53	1.13	0.89	0.72	0.61	0.52
0.4	3.01	1.54	1.02	0.75	0.59	0.48	0.40	0.35
0.2	1.50	0.77	0.51	0.38	0.30	0.24	0.20	0.17
0.1	0.75	0.38	0.26	0.19	0.15	0.12	0.10	0.09
0.06	0.45	0.23	0.15	0.11	0.09	0.07	0.06	0.05
0.04	0.30	0.15	0.10	0.08	0.06	0.05	0.04	0.03
0.02	0.15	0.08	0.05	0.04	0.03	0.02	0.02	0.02
0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01

TABLE SB-2

Hole Diameter (in)	Hole Diameter (ft)	Area per Row (n ²)		
		n = 1	n = 2	n = 3
1/4	0.250	0.06	0.10	0.15
5/16	0.313	0.08	0.15	0.23
3/8	0.375	0.11	0.22	0.33
7/16	0.438	0.15	0.30	0.45
1/2	0.500	0.20	0.39	0.59
9/16	0.563	0.25	0.50	0.75
5/8	0.625	0.31	0.61	0.92
11/16	0.688	0.37	0.74	1.11
3/4	0.750	0.44	0.88	1.33
7/8	0.875	0.60	1.20	1.80
1 1/8	1.000	0.79	1.57	2.36
1 1/8	1.125	0.96	1.96	2.98
1 1/4	1.250	1.23	2.45	3.68
1 3/8	1.375	1.48	2.97	4.45
1 1/2	1.500	1.77	3.53	5.30
1 5/8	1.625	2.07	4.15	6.22
1 3/4	1.750	2.41	4.81	7.22
1 7/8	1.875	2.78	5.52	8.28
2	2.000	3.14	6.28	9.42

City of Colorado Springs Stormwater Quality

TRM TURF REINFORCEMENT MATS (TENSAR ERONET SC150 OR EQUAL)

TEMPORARY SEDIMENT BASIN DESIGN DATA - RG-A2

BASIN	DRAINAGE AREA (AC)	REQUIRED VOLUME (AF)	D (FT)	HD* (IN)	COLUMNS	SPILLWAY WIDTH
A	6.0	0.25	2.0	7/8"	1	5'

D = DEPTH AT OUTLET
 HD = HOLE DIAMETER
 (PER FIGURE SB-2)
 * PERFORATIONS AT 4" VERTICAL SPACING

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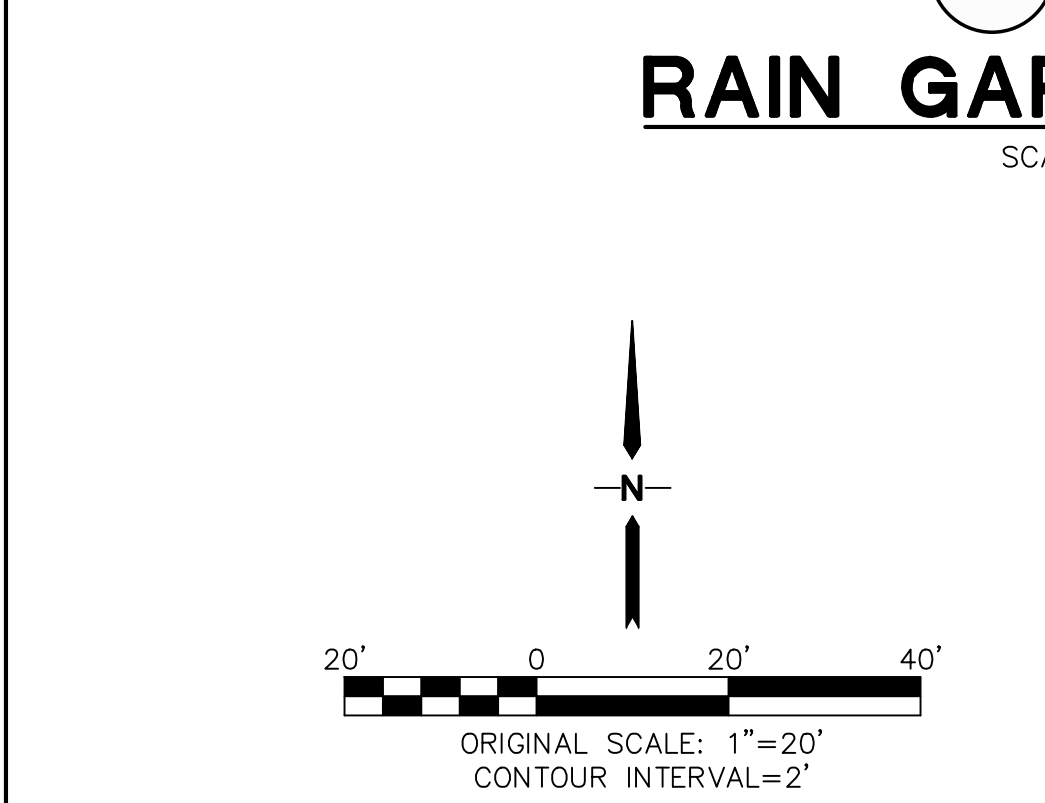
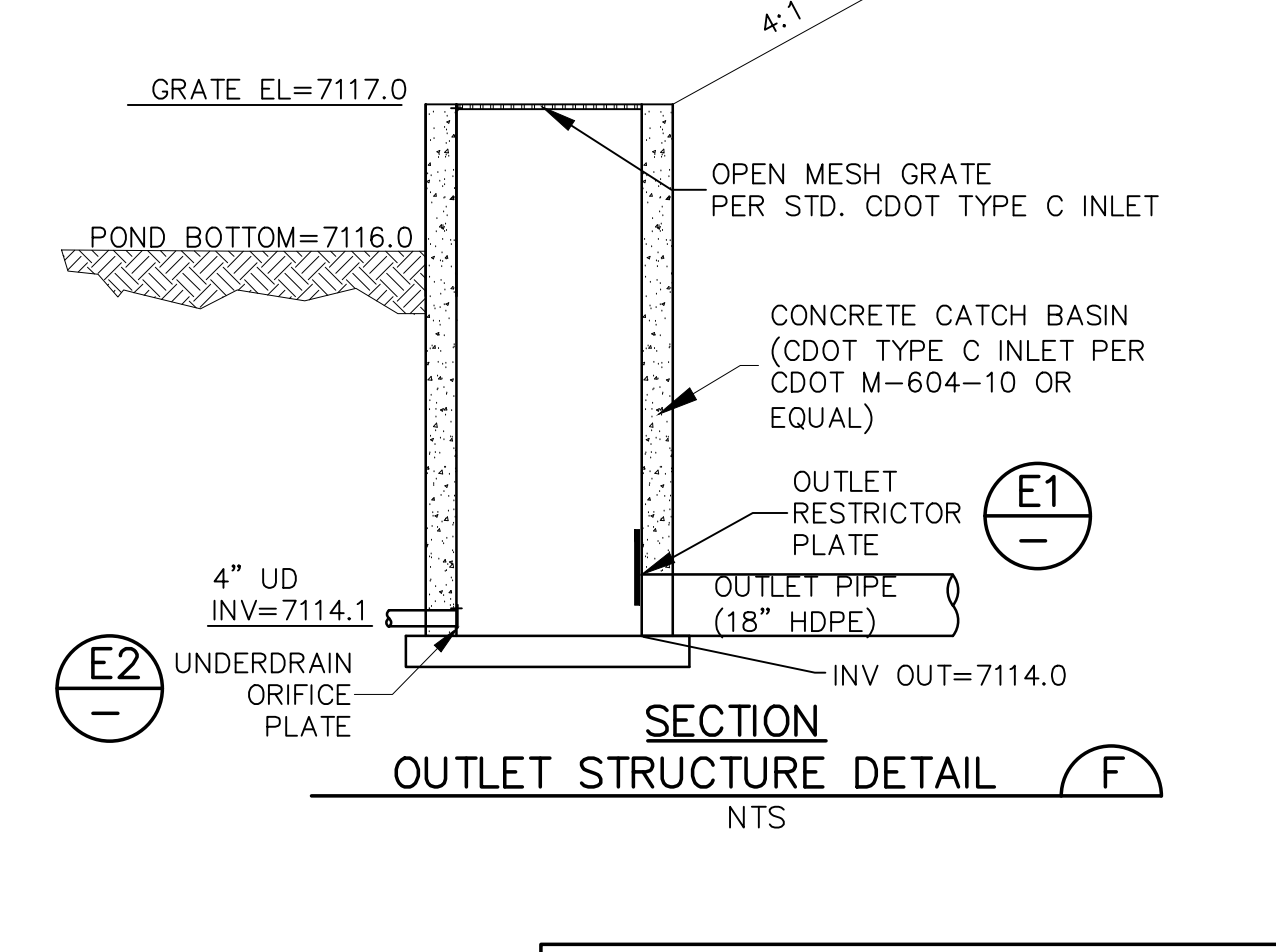
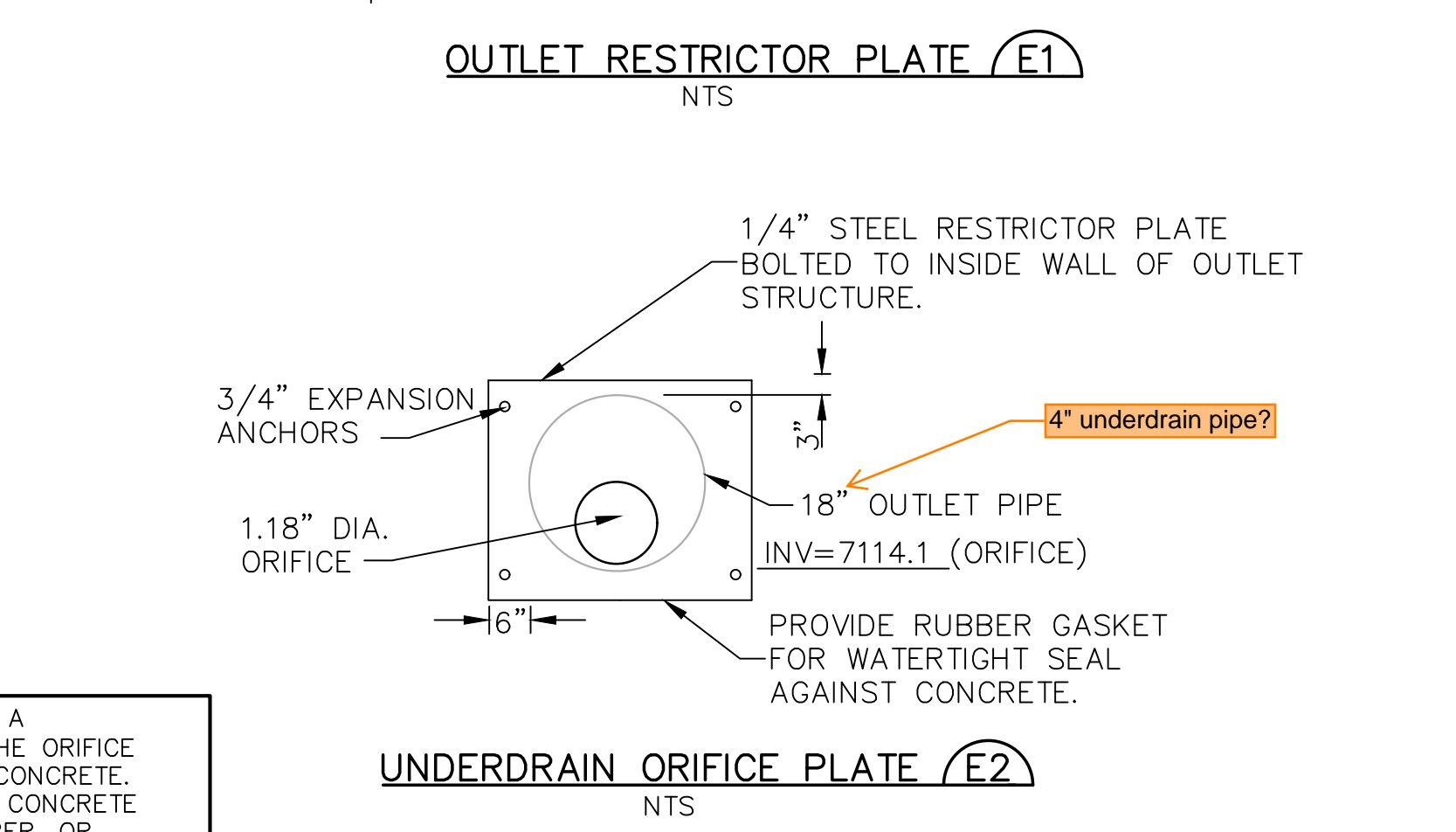
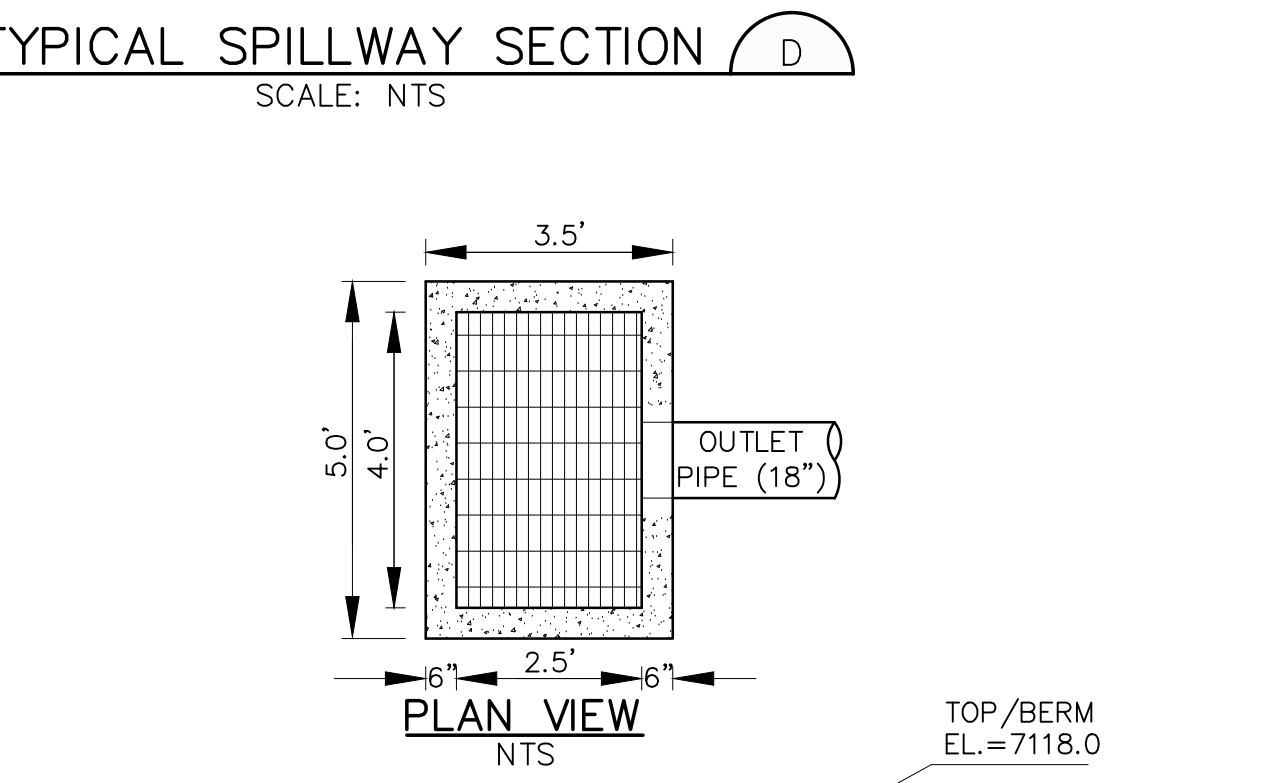
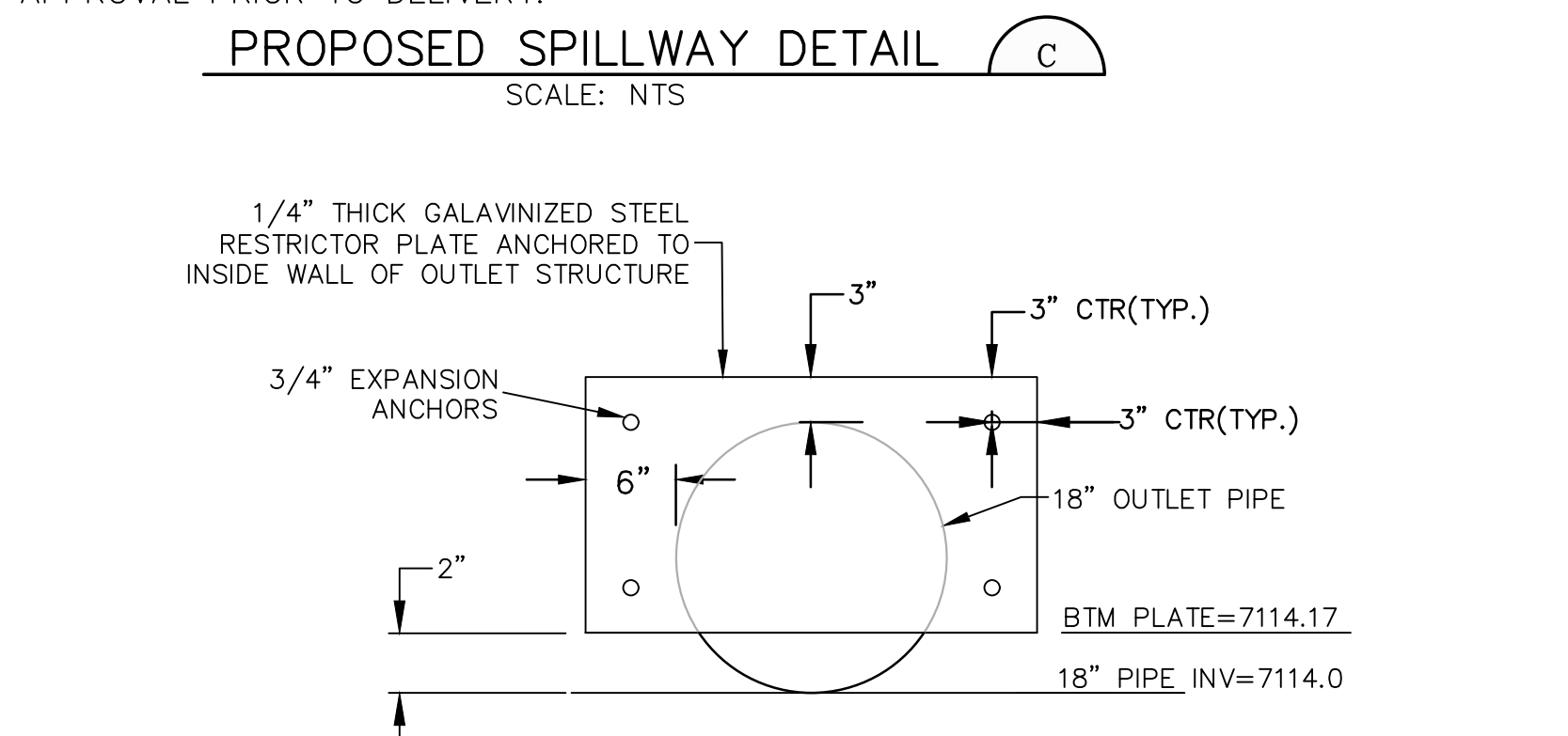
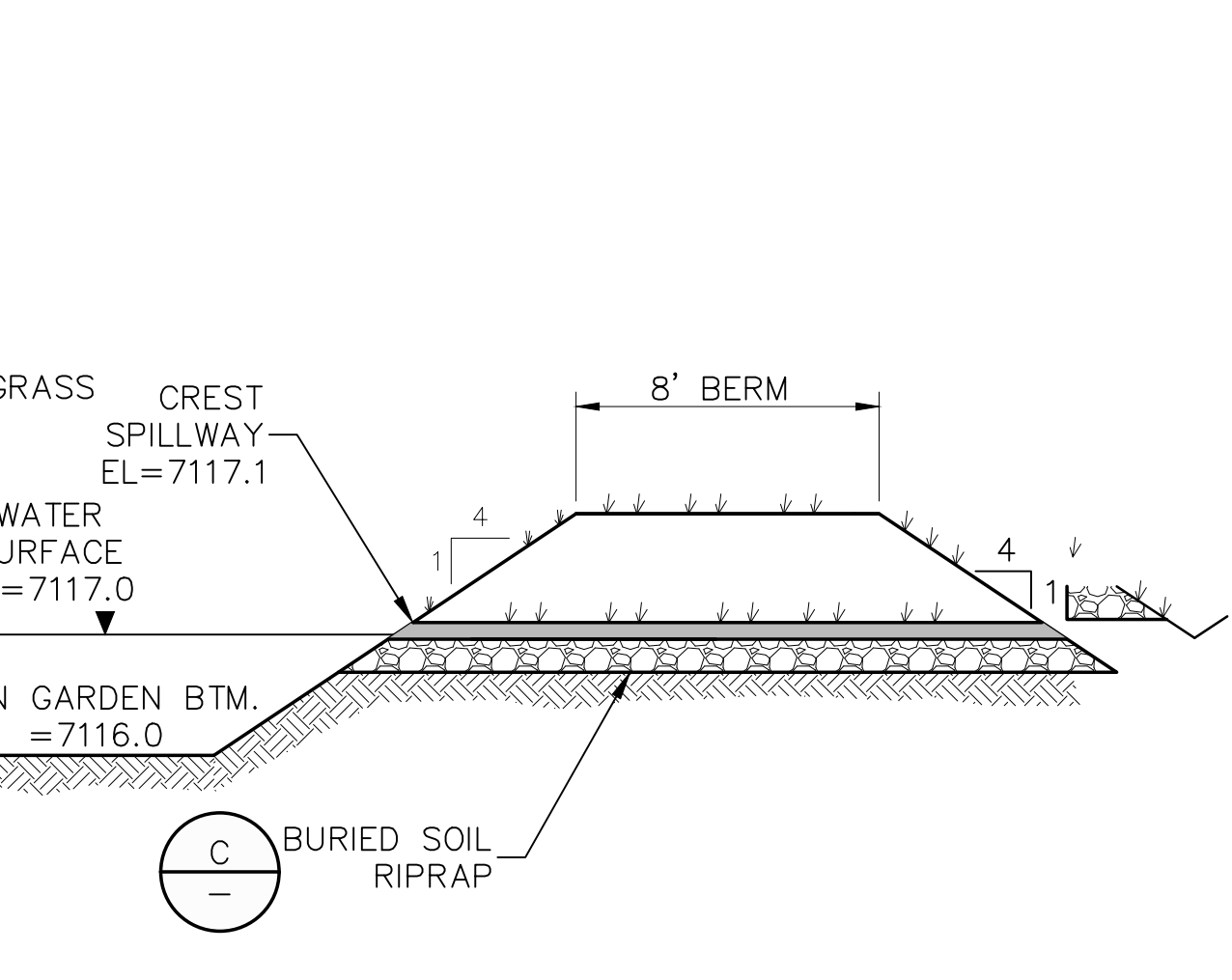
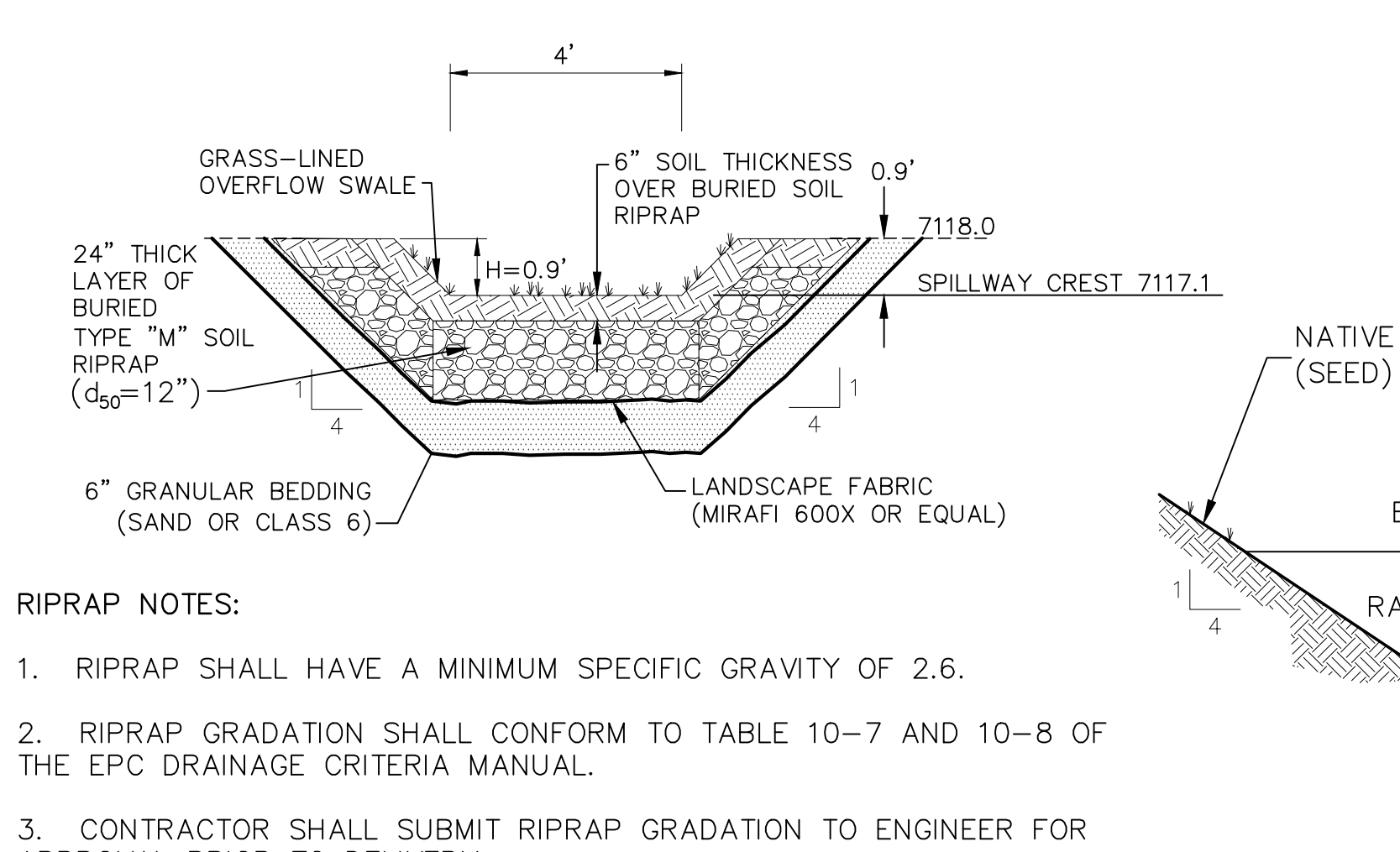
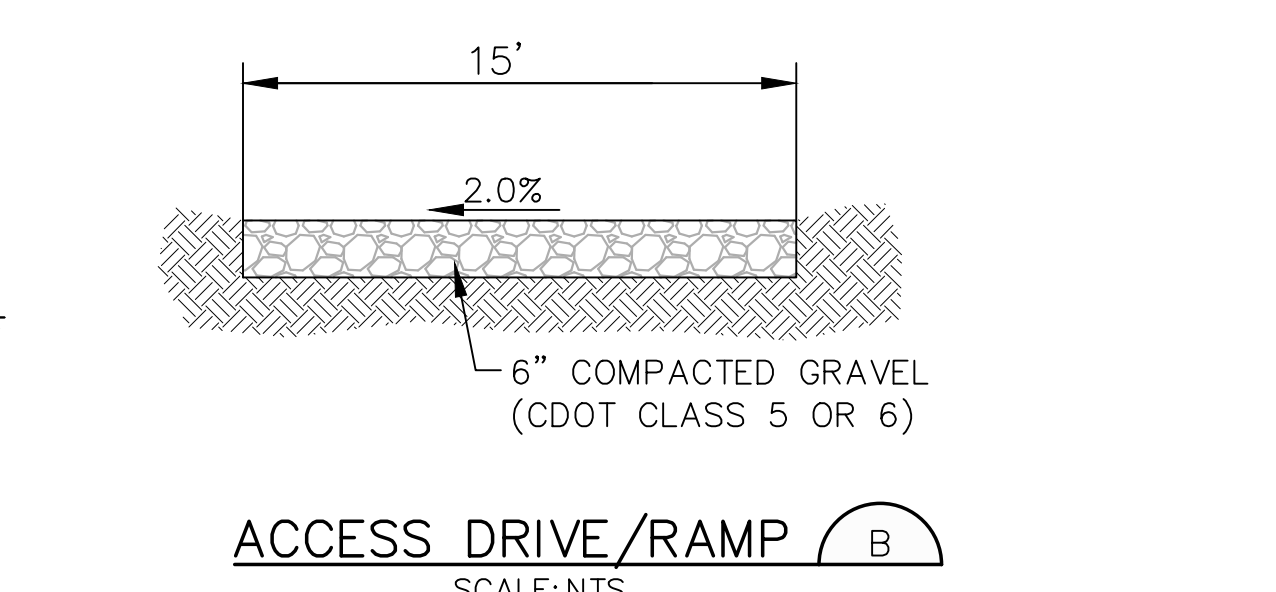
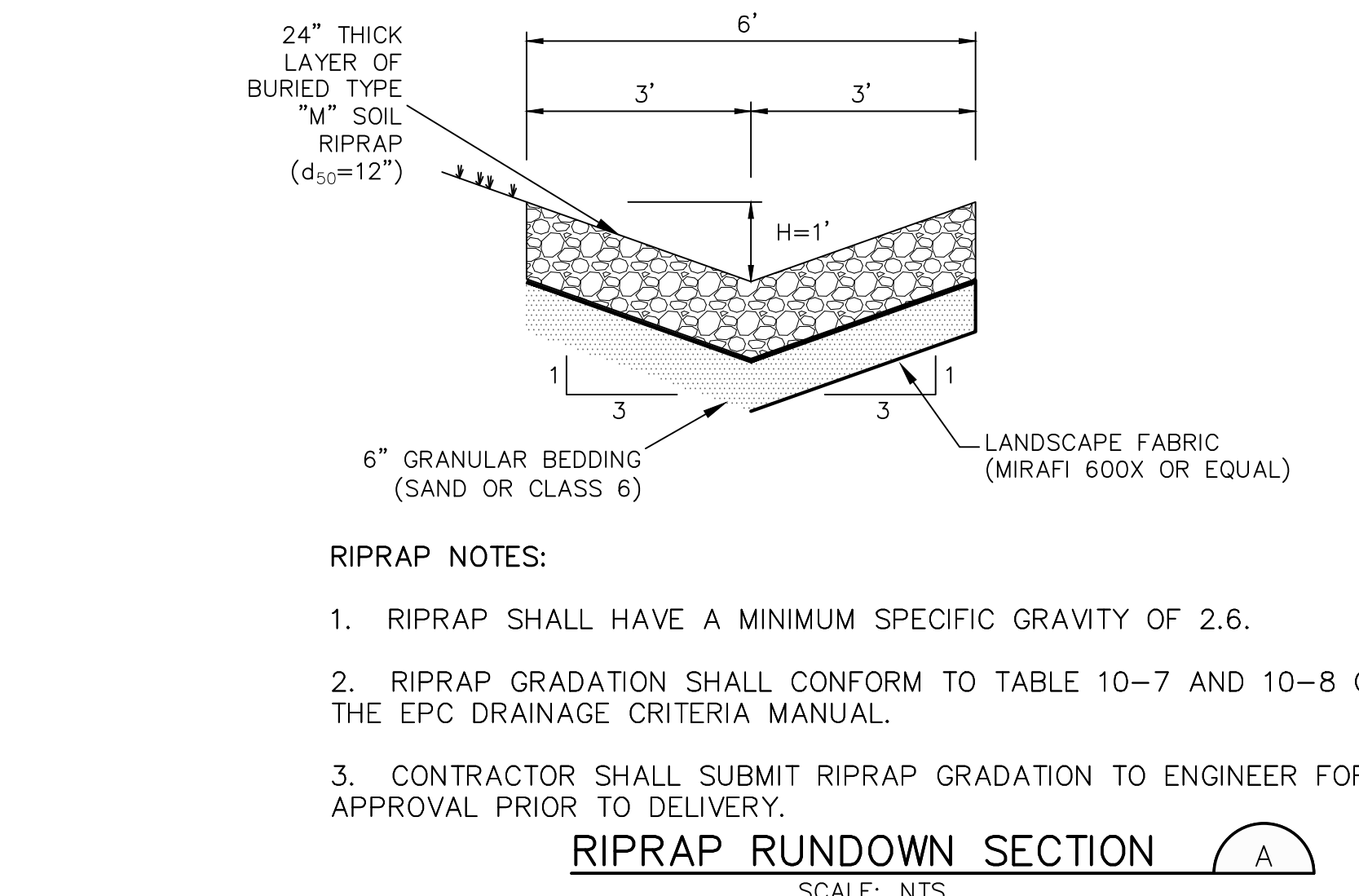
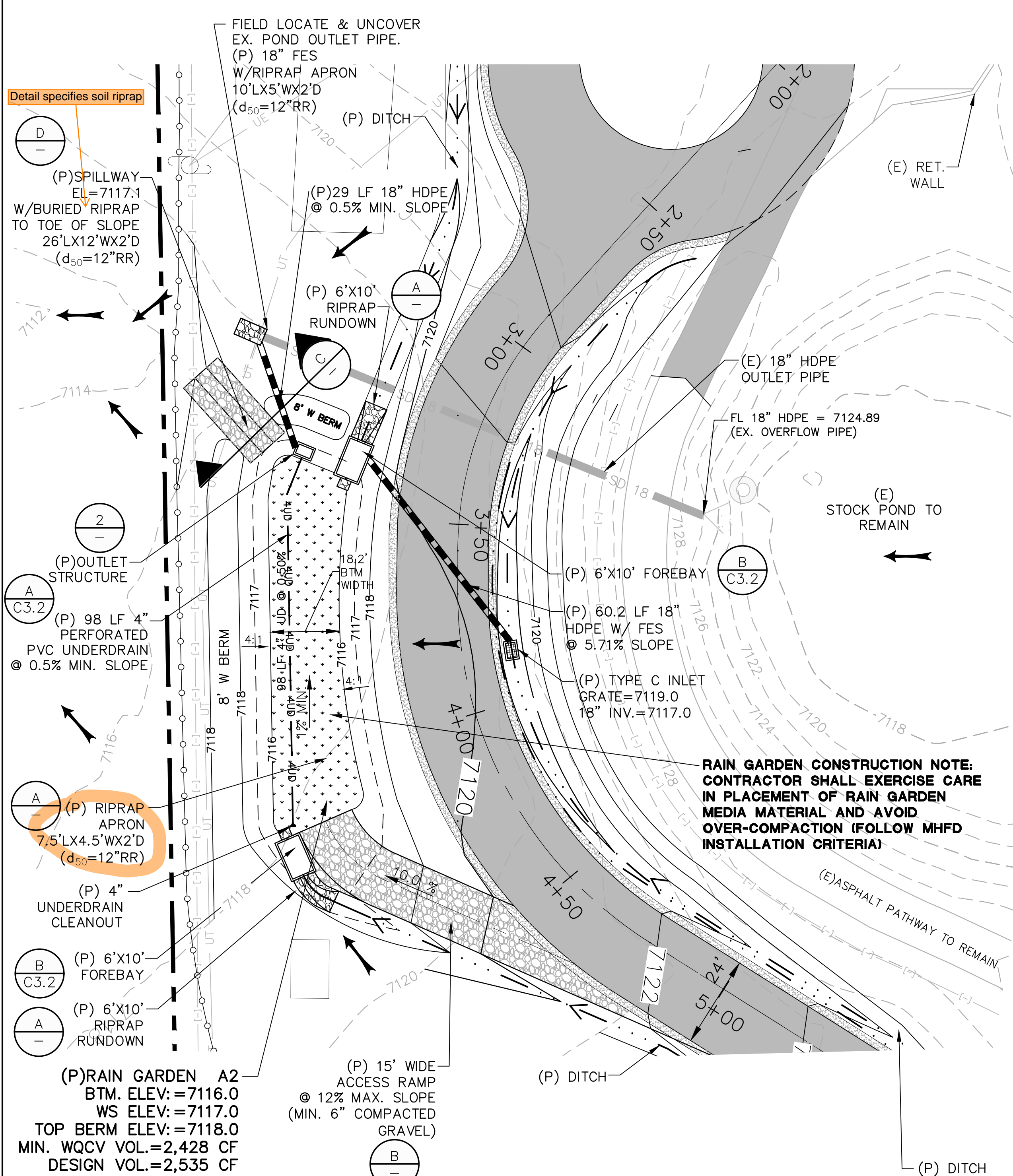
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NO.	REVISION	DATE

EROSION CONTROL DETAILS

HORIZ. SCALE:	N/A	DRAWN:	PV
VERT. SCALE:	N/A	DESIGNED:	JPS
SURVEYED:	COMPASS	CHECKED:	JPS
CREATED:	4/3/25	LAST MODIFIED:	05/07/26
PROJECT NO.:	122401	MODIFIED BY:	PV
SHEET:			



GASKET NOTE: GASKETS SHALL BE MADE OF 1/4 INCH THICK, 60 DUROMETER EPDM RUBBER IN A CONTINUOUS SHEET THE SIZE OF THE ORIFICE PLATE. THE SHEET SHALL BE PLACED BETWEEN THE ORIFICE PLATE AND CONCRETE WALL, WITH THE WIDTH OF THE OVERLAP BETWEEN THE PLATE AND THE CONCRETE. OPENING SHALL BE CUT INTO THE SHEET CORRESPONDING TO THE PLATE BOLT HOLES AND THE CONCRETE WALL OPENING. CUTS MADE EITHER BY THE CONTRACTOR IN THE FIELD OR BY THE MANUFACTURER. OR EQUIVALENT GASKET APPROVED BY EPC.

BENCHMARK:
12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE.
ELEV.=7160.57(NAVD88)

19 E. Willamette Ave.
Colorado Springs, CO 80903
PH: 719-477-9429
FAX: 719-471-0766

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

NO.	REVISION	DATE

HAVEN FOREST SCHOOL

5490 BURGESS ROAD, EL PASO COUNTY, CO

RAIN GARDEN A2

PLAN & DETAILS

HORIZ. SCALE: 1"=20'

VERT. SCALE: N/A

SURVEYED: COMPASS

CREATED: 4/21/25

PROJECT NO: 122401

SHEET:

DRAWN: PV

DESIGNED: JPS

CHECKED: JPS

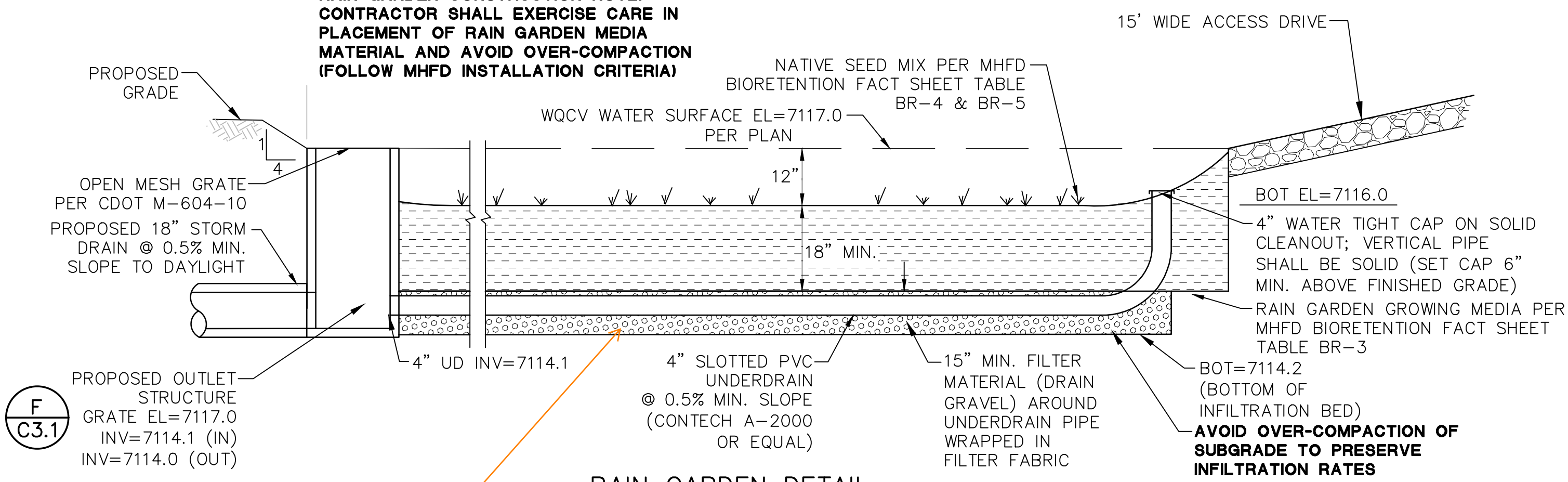
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MODIFIED BY: PV

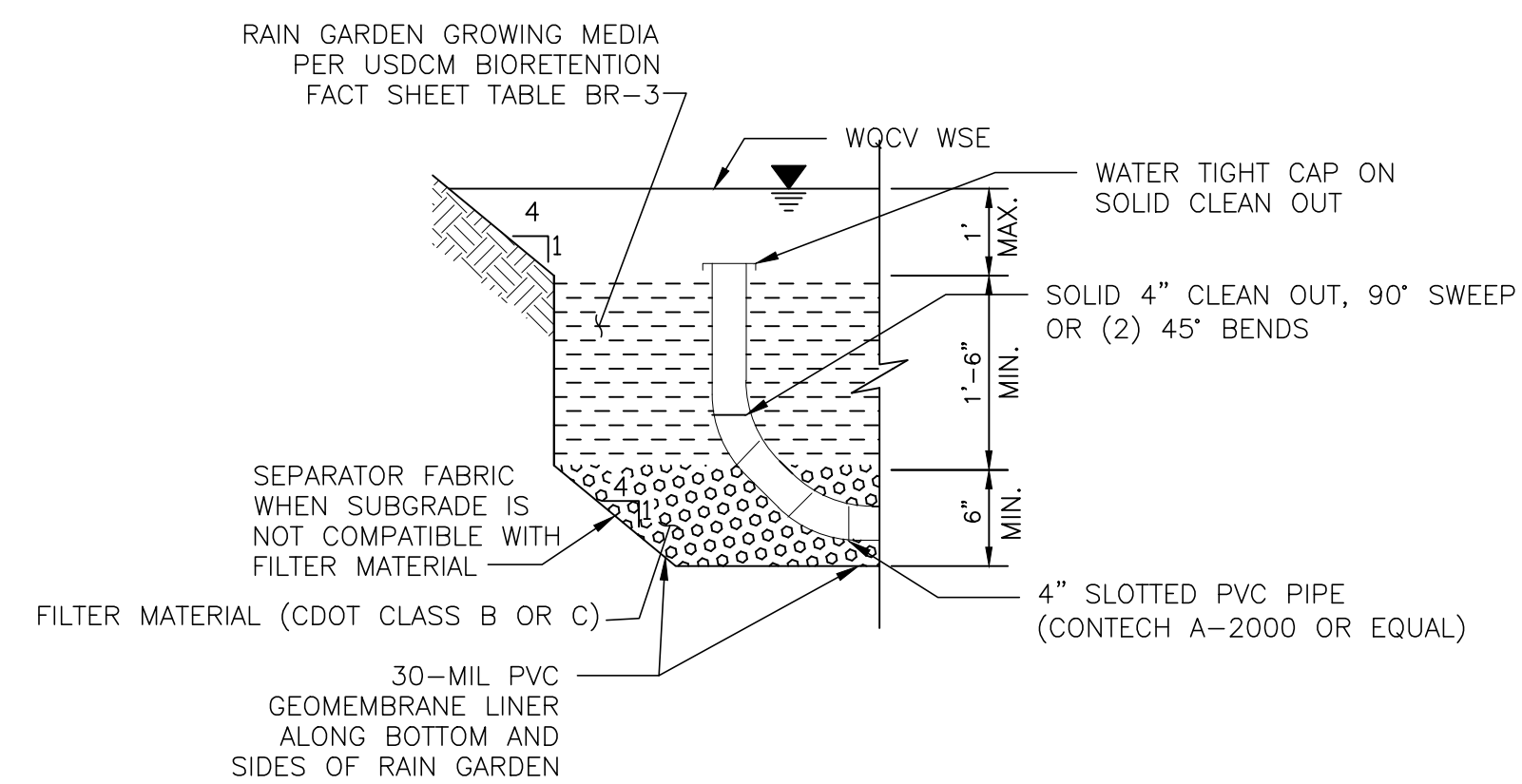
PCD FILE NO. PPR-2423

C3.1

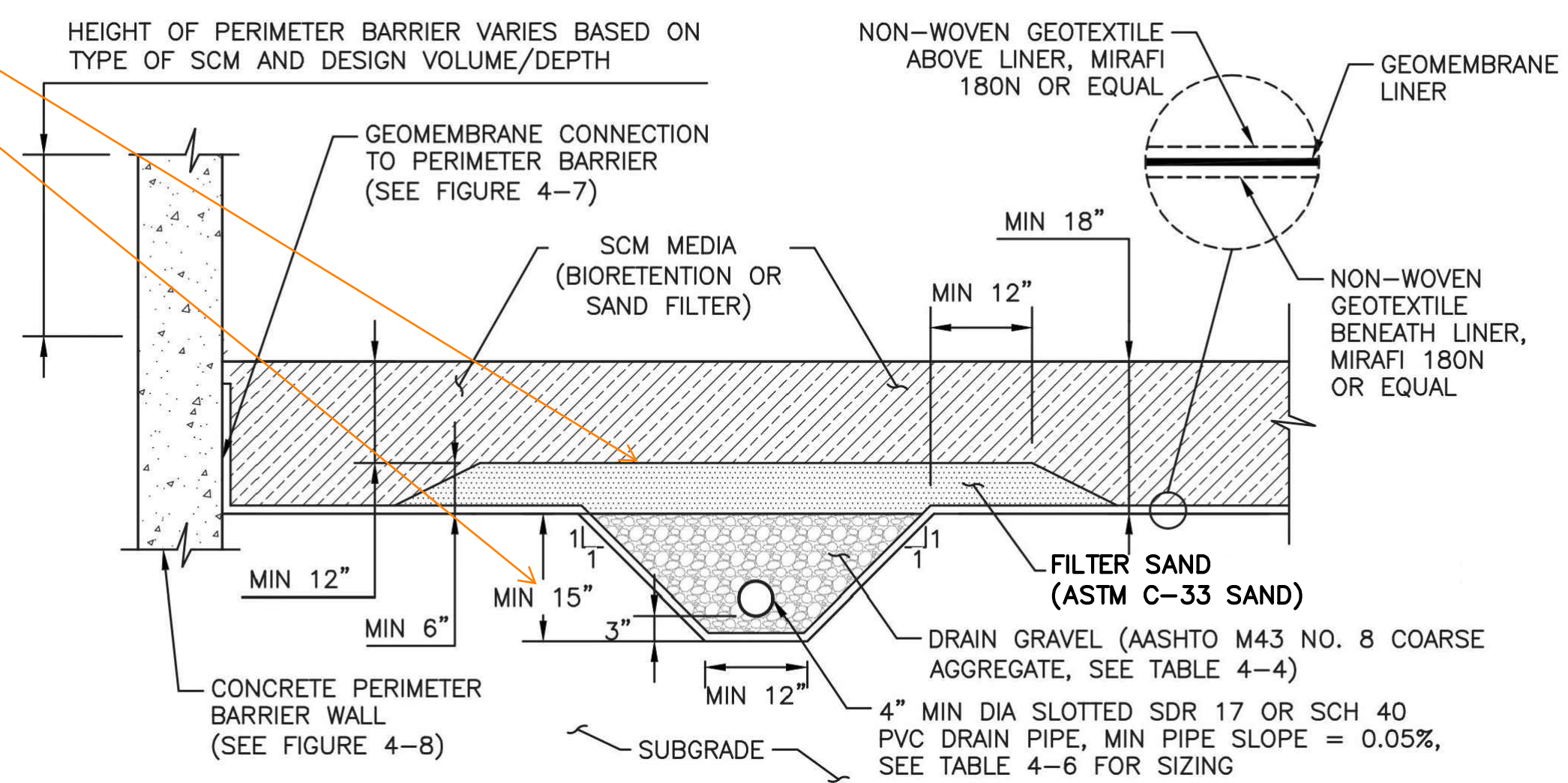
RAIN GARDEN CONSTRUCTION NOTE:
CONTRACTOR SHALL EXERCISE CARE IN
PLACEMENT OF RAIN GARDEN MEDIA
MATERIAL AND AVOID OVER-COMPACTION
(FOLLOW MHFD INSTALLATION CRITERIA)



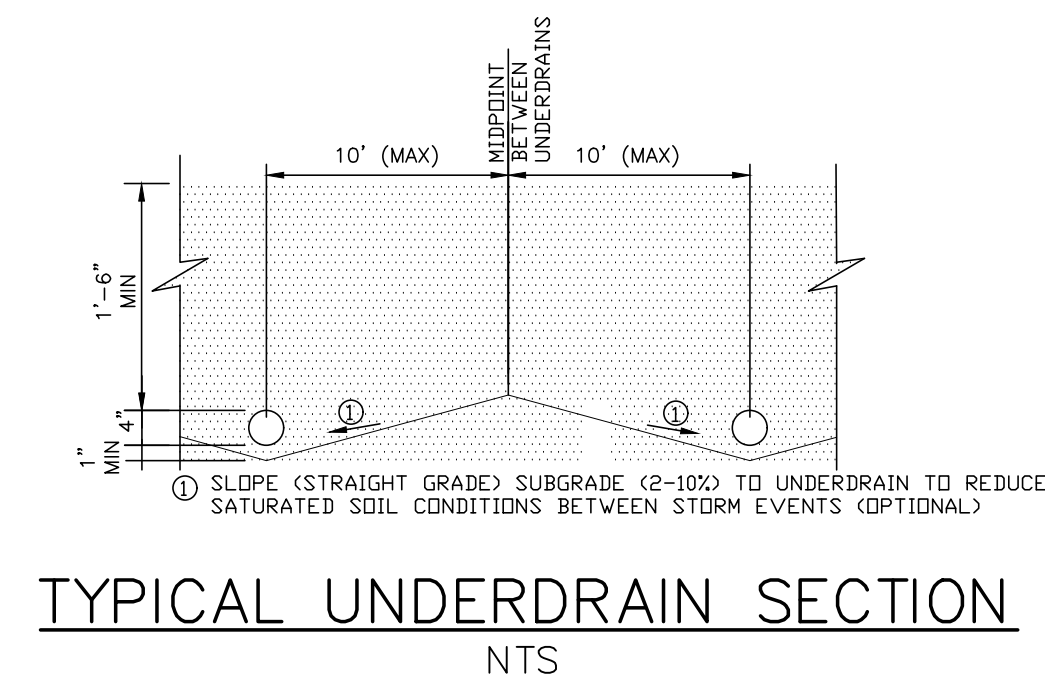
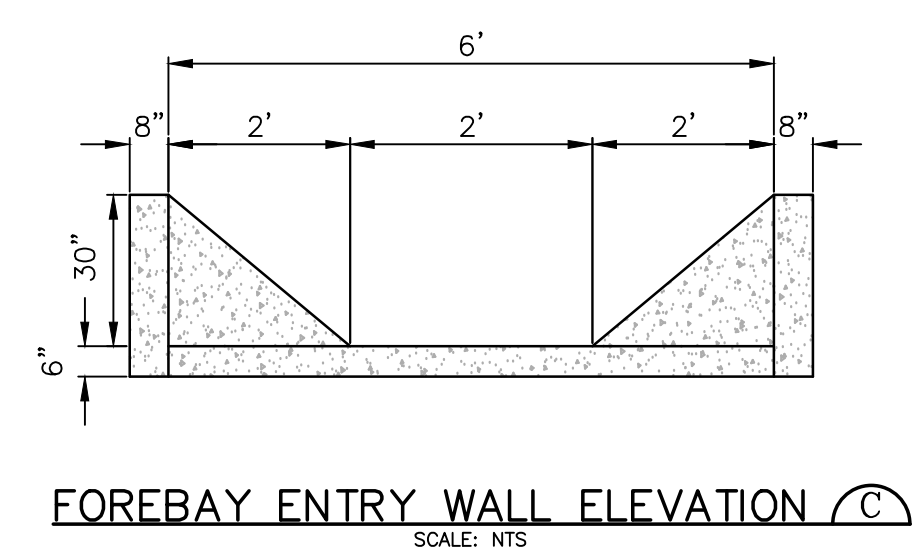
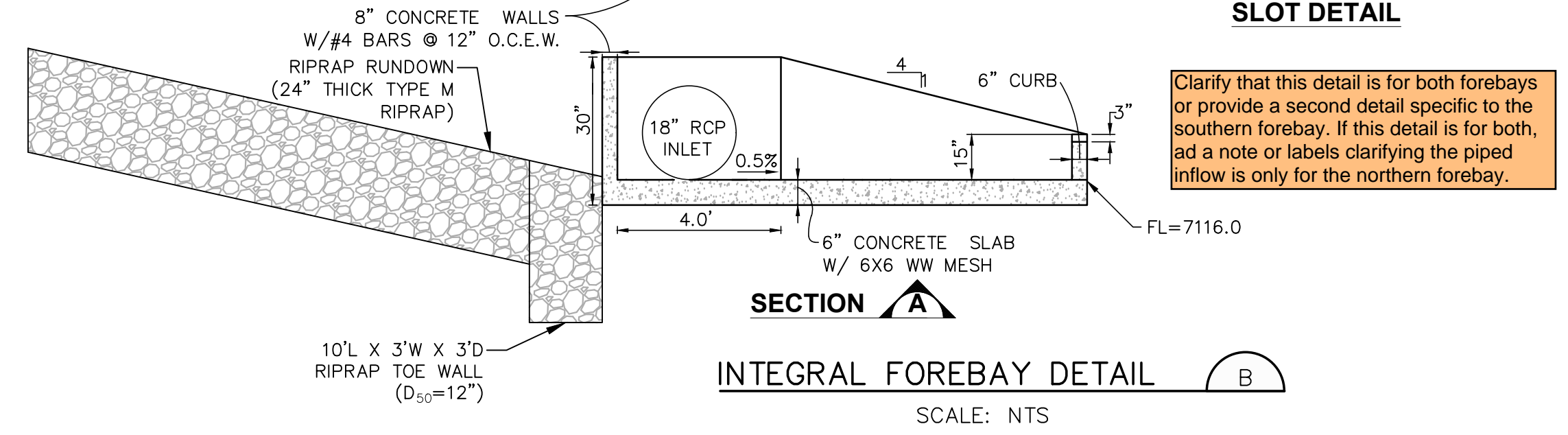
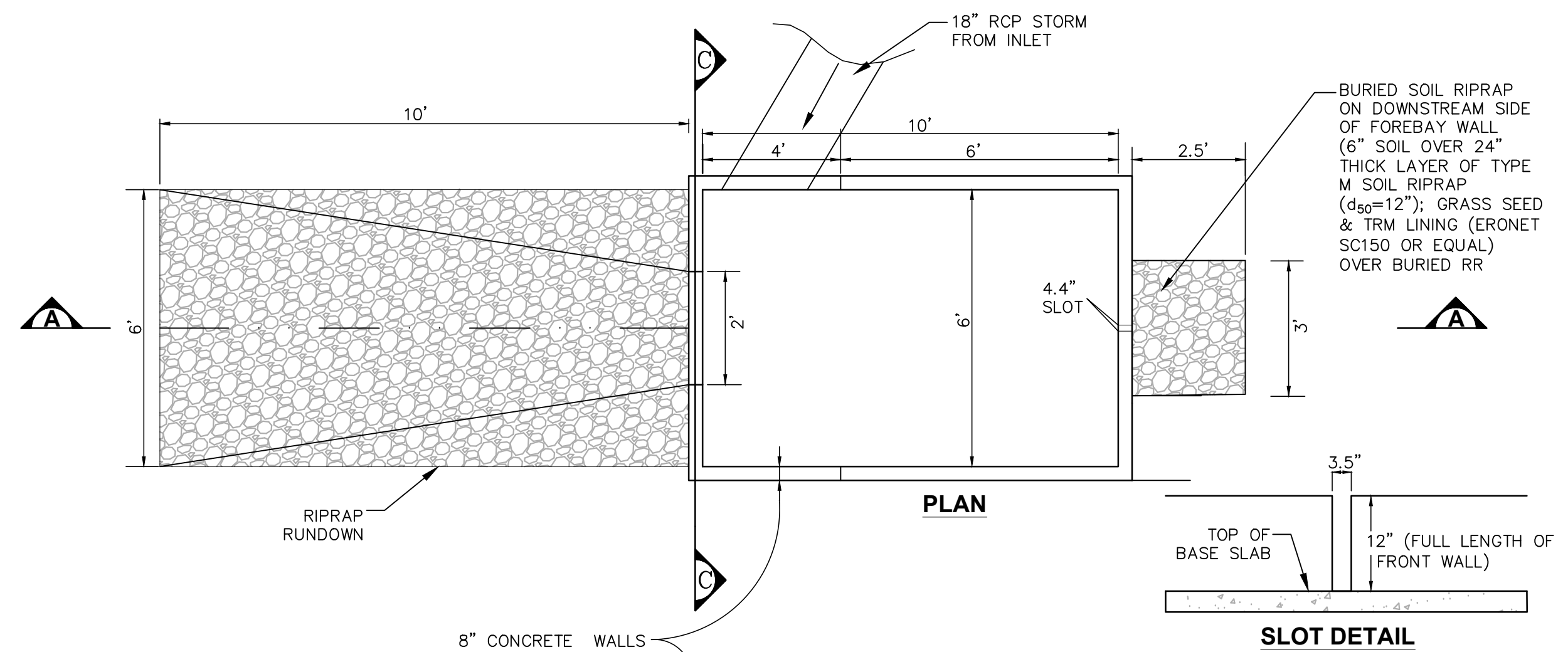
RAIN GARDEN DETAIL
POROUS LANDSCAPE DETENTION (BIORETENTION) AREA A
 SCALE: NTS



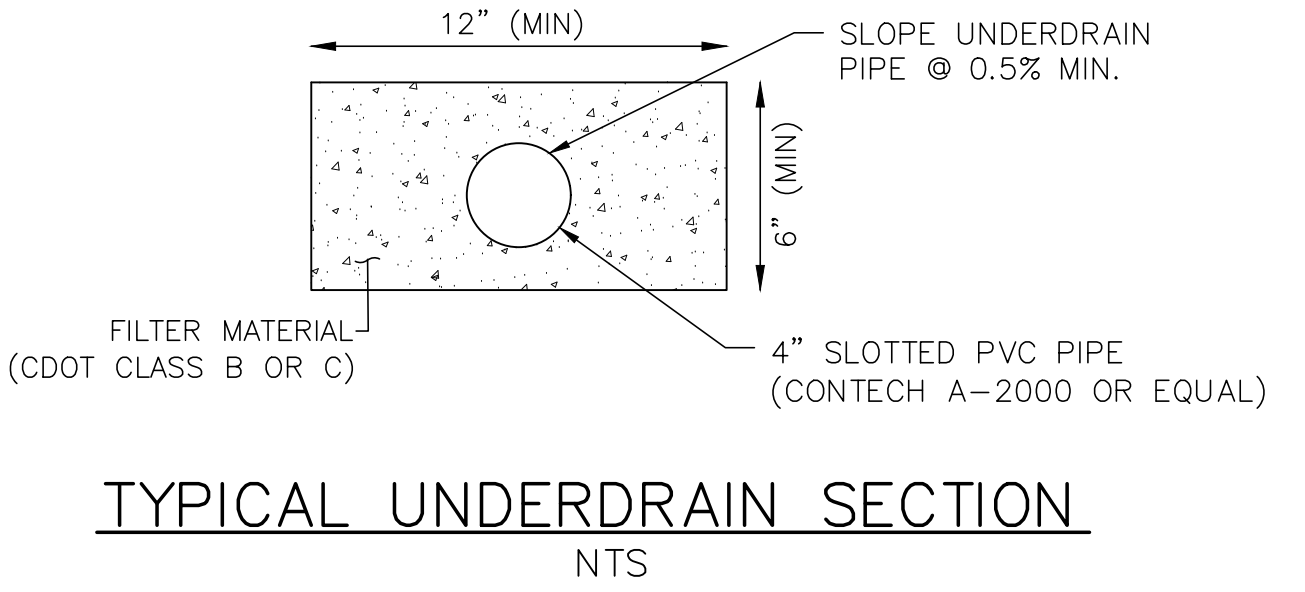
TYPICAL PARTIAL-INFILTRATION RAIN GARDEN SECTION
 NTS



TYPICAL PARTIAL-INFILTRATION RAIN GARDEN SECTION
 NTS

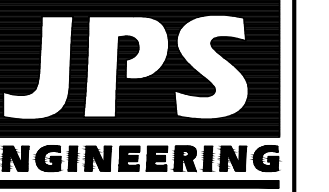


TYPICAL UNDERDRAIN SECTION
 NTS

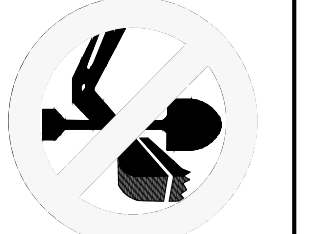


TYPICAL UNDERDRAIN SECTION
 NTS

Revise this section as needed to match the updated MHFD detail for Section B below. For example: the drain gravel around the underdrain is now a min of 15"



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 Colorado Springs, CO
 80903
 PH: 719-477-9429
 FAX: 719-471-0766



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 MEMBER UTILITIES.

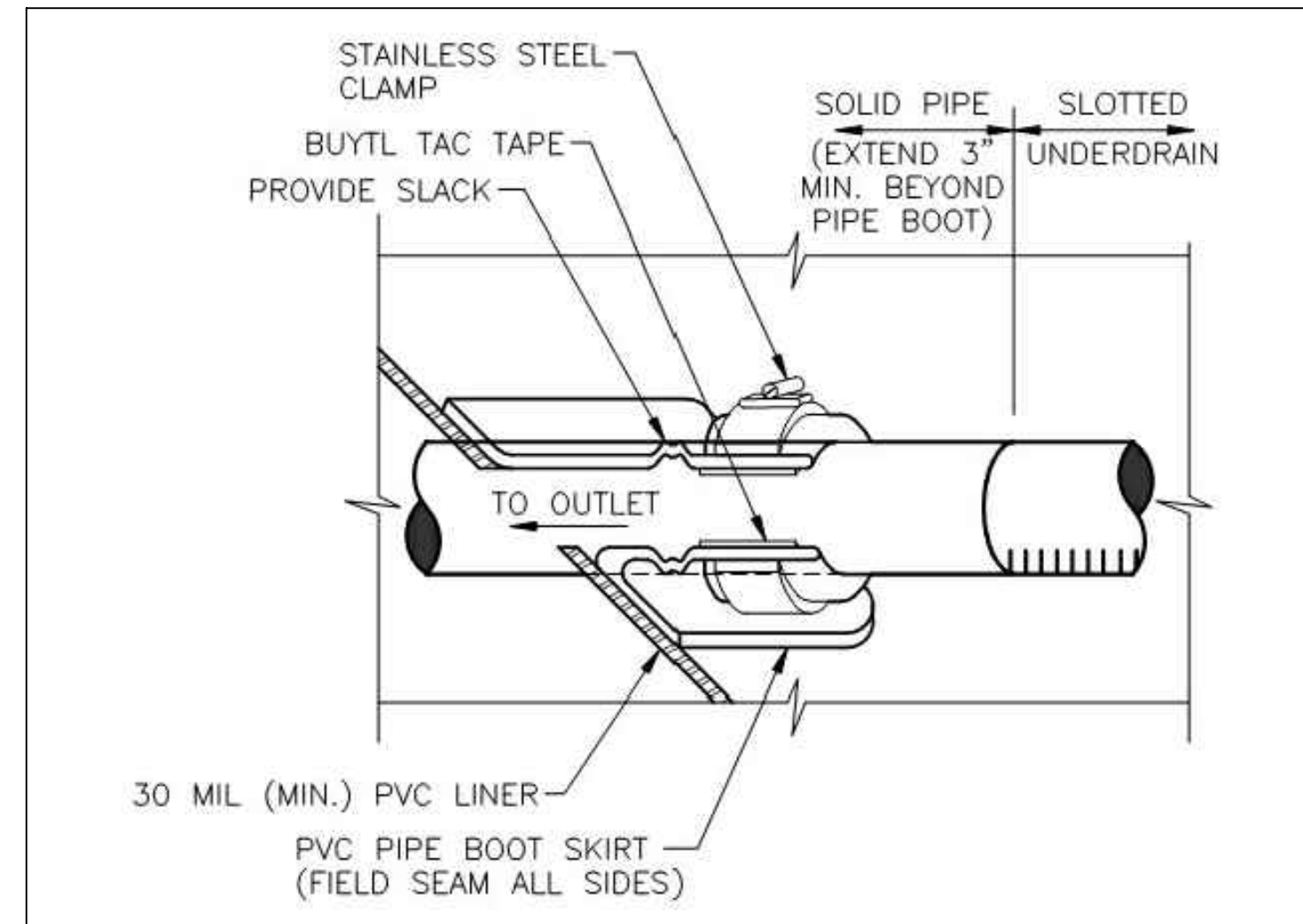
HAVEN FOREST SCHOOL
5490 BURGESS ROAD, EL PASO COUNTY, CO

NO.	REVISION	BY	DATE

RAIN GARDEN DETAILS

HORZ. SCALE:	AS SHOWN	DRAWN:	PV
VERT. SCALE:	AS SHOWN	DESIGNED:	JPS
SURVEYED:	COMPASS	CHECKED:	JPS
CREATED:	4/21/25	LAST MODIFIED:	05/13/26
PROJECT NO.:	122401	MODIFIED BY:	PV

C3.2



TYPICAL LINER PENETRATION DETAIL

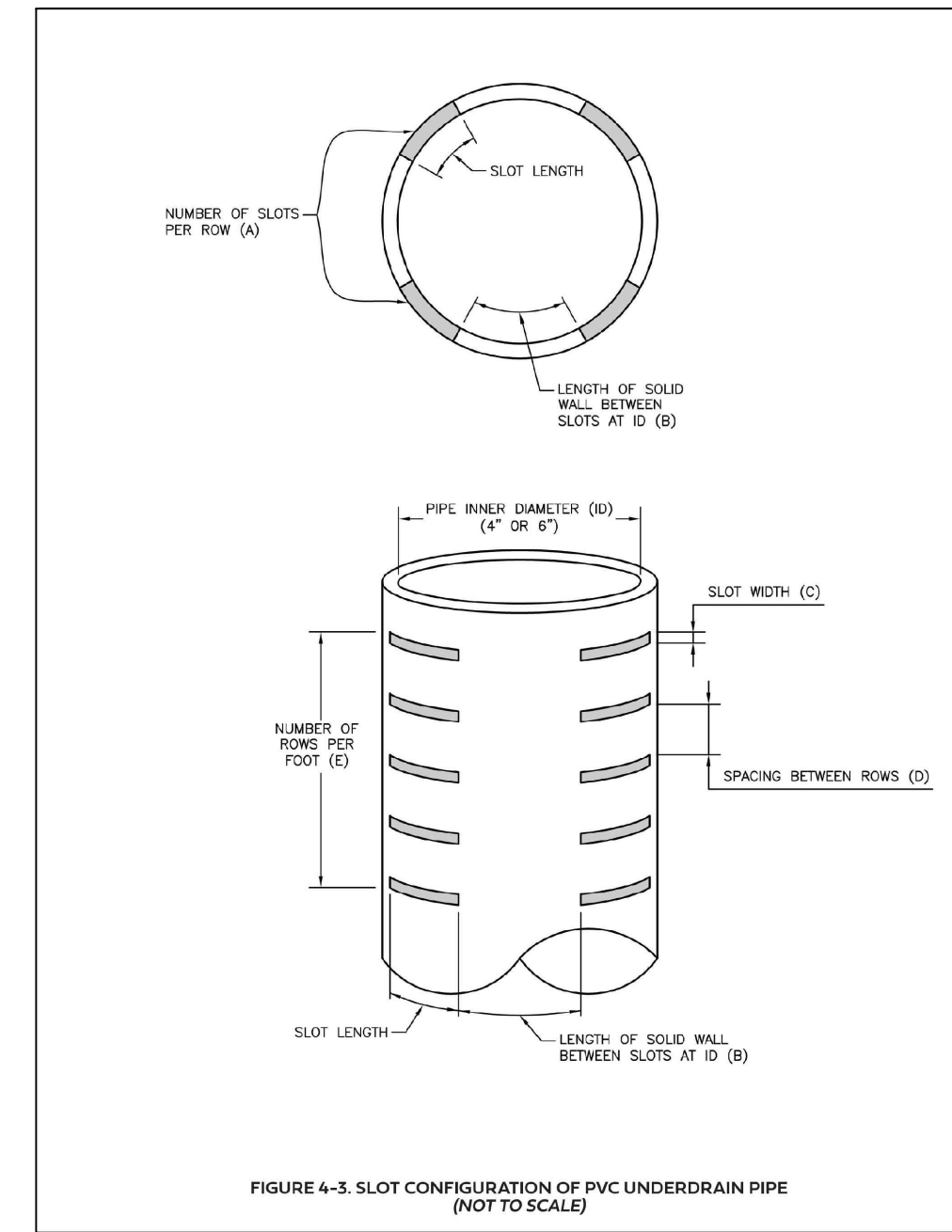


FIGURE 4-3. SLOT CONFIGURATION OF PVC UNDERDRAIN PIPE (NOT TO SCALE)

SOIL PARAMETERS	TEST NAME	BIORETENTION MEDIA PROPERTIES
Texture/Gradation	ASTM D7928 Sedimentation (Hydrometer) Method	Particle Size Distribution: 70-80% Sand (0.05-2.0 mm diameter) 5-25% Silt (0.002-0.05 mm diameter) 5-15% Clay (<0.002 mm diameter) Notes: Sand, silt and clay percentages are by dry weight. Particle sizes are based on the USDA soil classification system. Distribution is measured after gravel > 2 mm is removed from sample. Media should have no more than 25% material > 2 mm. Equivalent sieve sizes for the upper and lower limit of sand are #10 and #240, respectively.
Organic Matter	ASTM D2974	1-5% by dry weight
pH	ASA/AASHTO	6.0 - 8.5
Salinity/Salts (EC) dS/m or mmhos/cm	Saturated Paste	<3
Nitrate Nitrogen (ppm)	ASA2 33-3	<30
Phosphorus (ppm)	Use Olsen when pH>6.2, otherwise use Mehlich-3	Olsen: <20 or Mehlich-3: <30

GEOMETRY	MINIMUM	MAXIMUM
Number of slots per row (A)	4	6
Length of solid wall between slots at ID (B), inches	1.0	2.0
Slot width (C), inches	0.060	0.100
Spacing between rows (D), inches	0.25	1.0
Rows per lineal foot (E)	11	36
Open area per lineal foot ² (square inches)	6.0	20.0

NOTE: CONTRACTOR SHALL SUBMIT PROPOSED RAIN GARDEN MEDIA INFORMATION (INCLUDING GRADATION AND NUTRIENT CONTENT) FOR COUNTY APPROVAL PRIOR TO ORDERING MATERIAL.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PURE LIVE SEED (PLS)	
			POUNDS/ACRE	OUNCES/ACRE
Sand bluestem	<i>Andropogon hallii</i>	Garden	3.5	
Sideoats grama	<i>Bouteloua curtipendula</i>	Butte	3	
Prairie sandreed	<i>Calamovilfa longifolia</i>	Goshen	3	
Indian ricegrass	<i>Oryzopsis hymenoides</i>	Paloma	3	
Switchgrass	<i>Panicum virgatum</i>	Blackwell	4	
Western wheatgrass	<i>Pascopyrum smithii</i>	Ariba	3	
Little bluestem	<i>Schizachyrium scoparium</i>	Patura	3	
Alkali sacaton	<i>Sporobolus airoides</i>		3	
Sand dropseed	<i>Sporobolus cryptandrus</i>		3	
Pasture sage ¹	<i>Artemisia frigida</i>			2
Blue aster ¹	<i>Aster laevis</i>			4
Blanket flower ¹	<i>Gaillardia aristata</i>			8
Prairie coneflower ¹	<i>Ratibida columnifera</i>			4
Purple Prairie Clover ¹	<i>Dalea (Petalostemum) purpurea</i>			4
Sub-Totals:			27.5	22
Total pounds/acre			28.9	

PROPERTIES	TEST METHOD	SPECIFIED VALUE
Gauge (mils, nominal)		30
Thickness (mils, min.)	ASTM D1593 (Par. 8.1.3)	28.5
Specific Gravity (min.)	ASTM D792 (Method A)	1.20
Minimum Tensile Properties (each direction)	ASTM D882 (Method A or B)	
• Breaking Factor (lbs/in)		73
• Elongation at Break (%)		380
• Modulus at 100% Elongation (lbs/in)		32
Tear Resistance (lbs, min.)	ASTM D1004 (Die C)	8
Low Temperature (deg F)	ASTM D1790	-20
Dimensional Stability (% change, max.)	ASTM D1204 (100 deg. C, 15 min.)	3
Water Extraction (% loss, max.)	ASTM D3083 (NSF 54 Modified)	0.15
Volatile Loss (% loss, max.)	ASTM D1203 (Method A)	0.7
Resistance to Soil Burial (% change, max.)	ASTM D3083 (NSF 54 Modified)	
• Breaking Factor		5%
• Elongation at Break		20%
• Modulus at 100% Elongation		20%
Hydrostatic Water Resistance (psi, min.)	ASTM D751 (Method A)	100
Water Vapor Transmission (cm/sec, max.)	ASTM D814	5.0 x 10 ⁻⁹
Pinholes (number per 10 sq. yds. Geomembrane)		1
Seam Requirements		
• Bonded Seam Strength (lbs/in width, min.)	ASTM D882	58.4
• Peel Adhesion (lbs/in width, min.)	ASTM D882	15

**HAVEN FOREST SCHOOL
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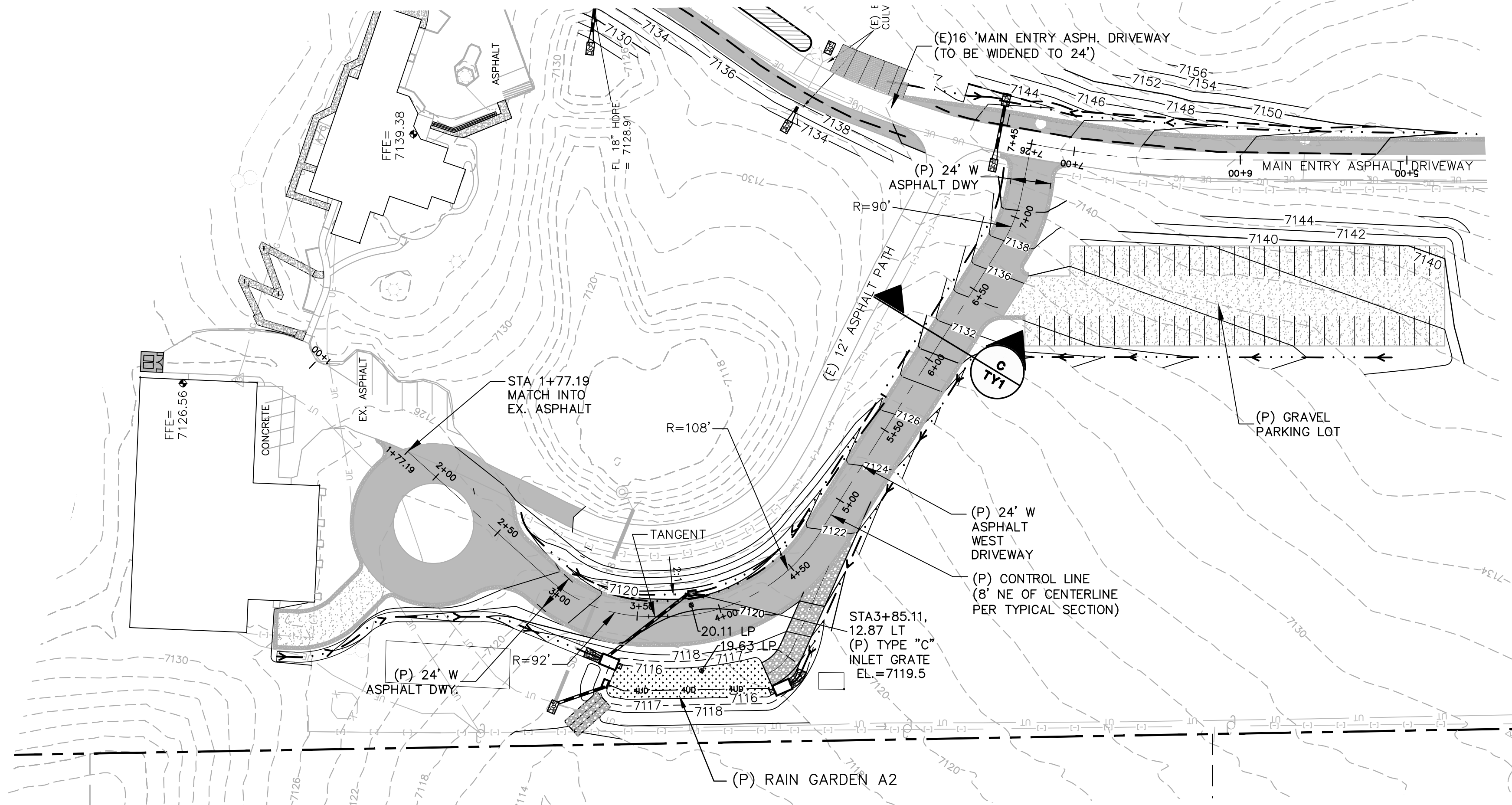
JPS ENGINEERING
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Colorado Springs, CO 80903
PH: 719-477-9429
FAX: 719-471-0766

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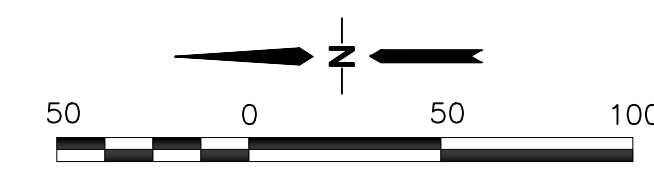
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RAIN GARDEN DETAILS

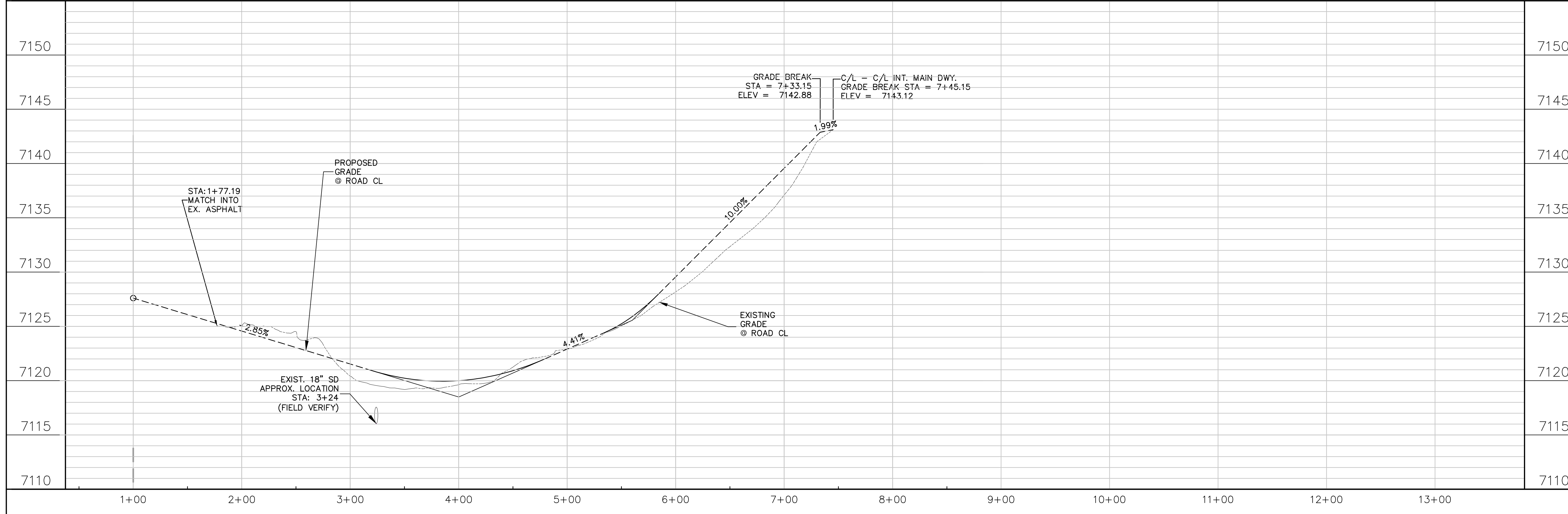
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VERT. SCALE: AS SHOWN
DESIGNED: PV
DRAWN: JPS
SURVEYED: COMPASS
CHECKED: JPS
CREATED: 4/21/25
LAST MODIFIED: 05/13/26
PROJECT NO: 122401
MODIFIED BY: PV
SHEET: **C3.3**



WEST DRIVEWAY



ORIGINAL SCALE
1"=50' HORIZ.; 1"=5' VERT.
CONTOUR INTERVAL: 2'



◆ BENCHMARK:
12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE. ELEV.=7160.57(NAVD88)

PCD FILE NO. PPR-2423

HAVEN FOREST SCHOOL
5490 BURGESS ROAD, EL PASO COUNTY, CO

WEST DRIVEWAY
PLAN & PROFILE
(STA: 1+00 TO STA: 7+45.15)

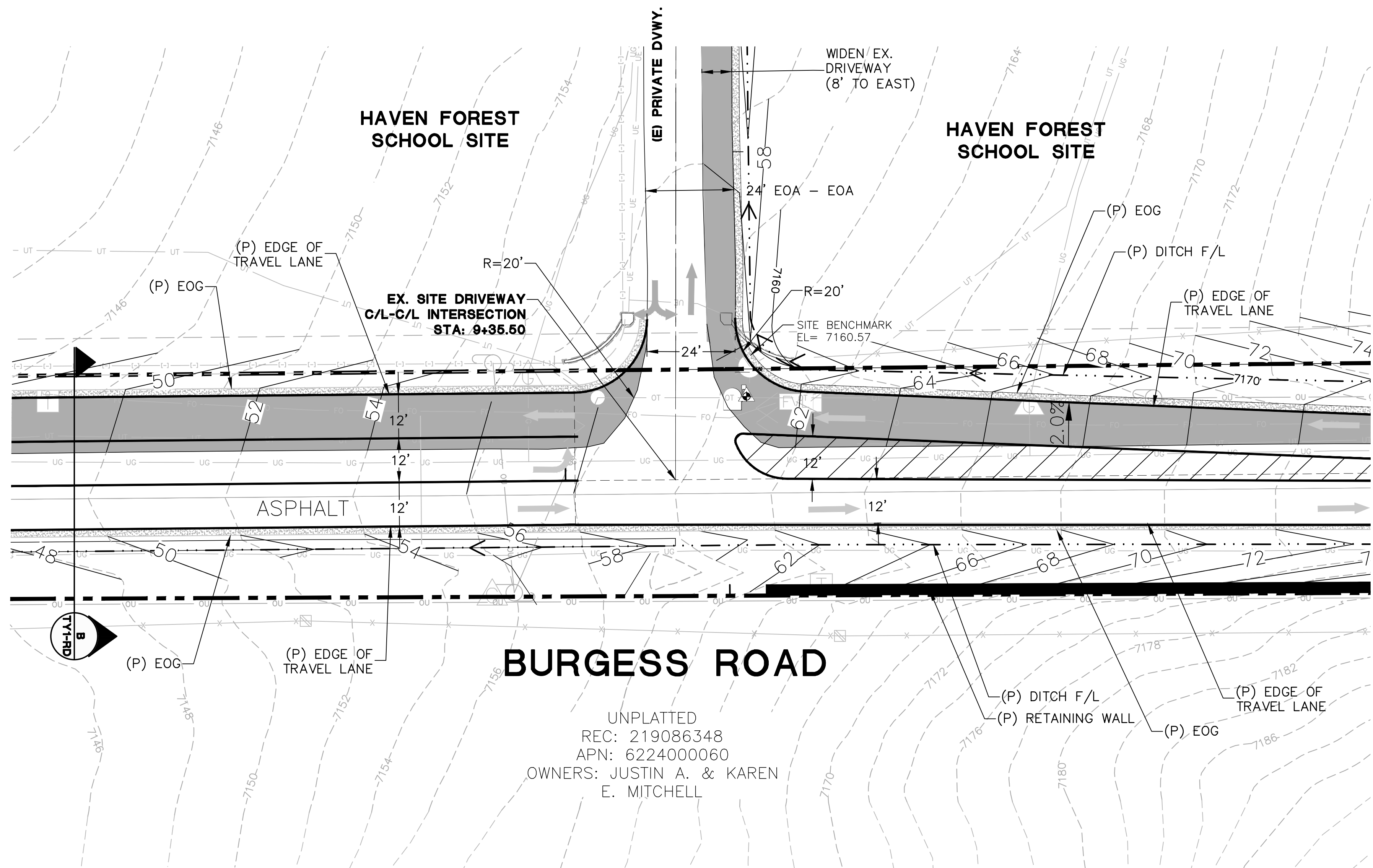
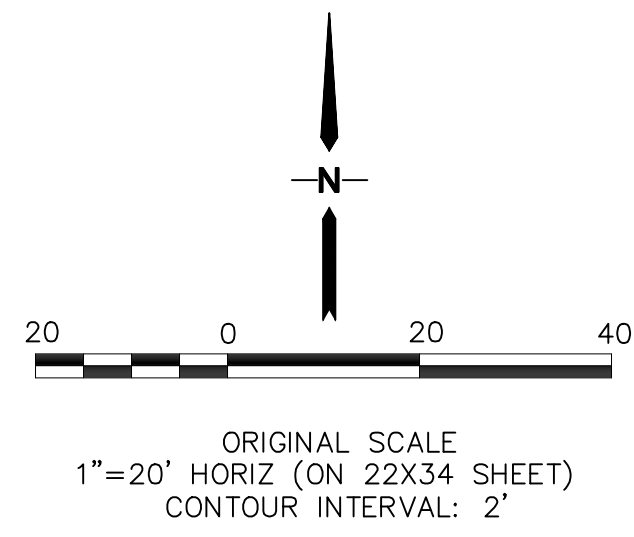
REVISION	DATE	BY

HORZ. SCALE: 1"=50'	DRAWN: PV
VERT. SCALE: 1"=5'	DESIGNED: JPS
SURVEYED: COMPASS	CHECKED: JPS
CREATED: 3/25	LAST MODIFIED: 05/13/26
PROJECT NO: 122401	MODIFIED BY: PV

SHEET: **PP1**

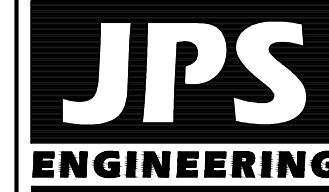
JPS ENGINEERING
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www.jpsegr.com

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◆ BENCHMARK:
12" STEEL SPIKE SET AT SE COR PROPERTY ENTRANCE. ELEV.=7160.57(NAVD88)

PCD FILE NO. PPR-2423



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MEMBER UTILITIES.

HAVEN FOREST SCHOOL
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BURGESS ROAD
INTERSECTION DETAIL

No.	REVISION	BY	DATE

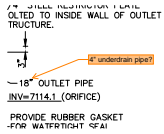
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VERT. SCALE: N/A	DESIGNED: JPS
SURVEYED: COMPASS	CHECKED: JPS
CREATED: 3/25	LAST MODIFIED: 05/14/26
PROJECT NO: 122401	MODIFIED BY: PV

SHEET:

INT1

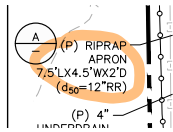
V5_Grading & Erosion Control Plan.pdf Markup Summary

EPC Stormwater- Zachary (5)

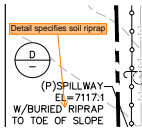


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Date: 6/15/2026 5:23:13 PM
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4" underdrain pipe?

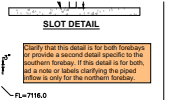


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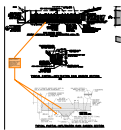
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Detail specifies soil riprap



Subject: SW - Textbox
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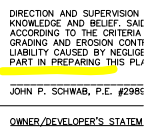
Clarify that this detail is for both forebays or provide a second detail specific to the southern forebay. If this detail is for both, add a note or labels clarifying the piped inflow is only for the northern forebay.



Subject: SW - Textbox with Arrow
Page Label: [1] C3.2-GEC
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Revise this section as needed to match the updated MHFD detail for Section B below. For example: the drain gravel around the underdrain is now a min of 15"

eschoenheit (3)




Subject: Highlight
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Author: eschoenheit
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Space:

OWNER/DEVELOPER'S STATE
I, THE OWNER/DEVELOPER, I
REQUIREMENTS OF THE GRA
HAVEN EDUCATION
7265 BAKER ROAD
COLORADO SPRINGS, CO 80
P. PAGE NUMBER

Subject: Highlight
Page Label: [1] C1.0 GEC
Author: eschoenheit
Date: 6/15/2026 4:51:24 PM
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Color: 
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Space:

Signatures and stamp all pages

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T
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C
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Subject: Text Box
Page Label: [1] C1.0 GEC
Author: eschoenheit
Date: 6/15/2026 4:52:34 PM
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A