

EROSION CONTROL LEGEND

- SF SILT FENCE (INITIAL/INTERIM)
RS CURB ROCK SOCKS (INITIAL/INTERIM)
CF CONSTRUCTION FENCE (INITIAL, INTERIM)
SCL SEDIMENT CONTROL LOG (INITIAL, INTERIM)
PS PERMANENT SEEDING (INTERIM, FINAL)
TSB TEMPORARY SEDIMENT BASIN (INITIAL)
SSA STABILIZED STAGING AREA (INITIAL)
CWA CONCRETE WASHOUT AREA (INTERIM)
SP STOCKPILE AREA (INTERIM)
VTC VEHICLE TRACK CONTROL (INITIAL, INTERIM)
IP-# ON-GRADE (IP-1) & SUMP (IP-2) INLET PROTECTION (INITIAL/INTERIM)

- PROPERTY LINE
EASEMENT LINE
SETBACK LINE
LIMITS OF DISTURBANCE/CONSTRUCTION
PROPERTY CORNER/MONUMENT, BENCHMARK OR TEMPORARY BENCHMARK
SHEET FLOW/DRAINAGE DIRECTION
PROPOSED MINOR CONTOUR
PROPOSED MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING MAJOR CONTOUR
SPOT ELEVATION

SITE HATCHING

- AREAS OF CUT
AREAS OF FILL
PROP. STRUCTURE/BUILDING
PROP. SIDEWALK

FEMA FLOODPLAIN STATEMENT:
ACCORDING TO FEMA FLOODPLAIN MAP 080410752G DATED 12/07/2018, THE PROPERTY FALLS WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD.

BATCH PLANT STATEMENT
NO BATCH PLANTS ARE TO BE USED ON SITE

EXISTING VEGETATION COVERS APPROXIMATELY 98.5% OF THE SITE AND CONSISTS OF NATIVE GRASS WITH EXISTING IMPERVIOUSNESS OF APPROXIMATELY 1.5%

\*CONTRACTOR TO HAUL DIRT/SOIL OFF-SITE DURING CONSTRUCTION. NO OVER NIGHT STOCKPILING OF MATERIALS TO BE DONE ON-SITE.

BMP COST ESTIMATE table with columns: BID ITEM, UNIT, EST. \$/UNIT, TOTAL COST. Includes items like Permanent Seeding, Permanent Mulching, Permanent Pond, Safety Fence, etc.

NET: \$36,191.50
MAINTENANCE (35%): \$6,207.95
TOTAL: \$42,399.45

NOTES:
1. ALL UNIT PRICES REFLECT INSTALLED PRICES UNLESS OTHERWISE NOTED.
2. ALL UNIT PRICES PROVIDED BY EL PASO COUNTY 2021 FINANCIAL ASSURANCE ESTIMATE FORM.

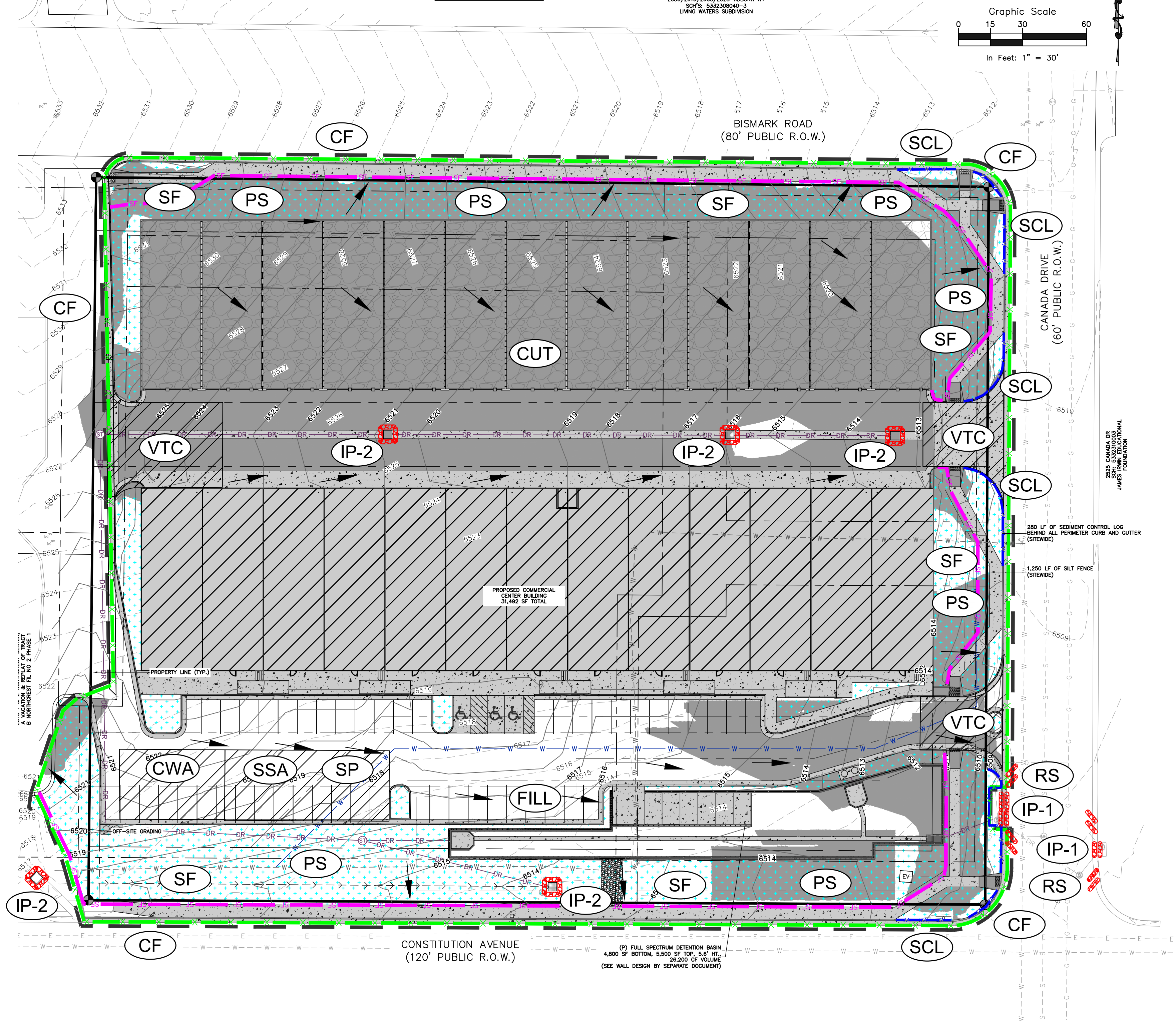
ENGINEER'S STATEMENT:
THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF...

EL PASO COUNTY STANDARD NOTES:

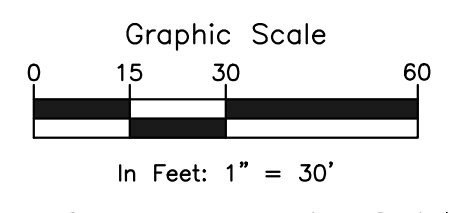
- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS...
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS...
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION...
4. ONCE THE ESQCP IS APPROVED AND A NOTICE TO PROCEED HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC...
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER...
6. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED...
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS...
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ESTABLISHED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETED...
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS...
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION...
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES...
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE...
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP...
14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE...
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1...
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSED IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS...
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY...
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED...
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, ROCK, TRASH, SEDIMENT, SAND AND GRAVEL THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS...
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED...
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR...
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION...
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES...
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE COLORADO WATER QUALITY CONTROL ACT...
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION POINTS...
26. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS...
27. THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY RMG-ROCKY MOUNTAIN GROUP, DATED 2/23/2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS...
28. AT LEAST TEN (1) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT...
29. 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

EL PASO COUNTY:
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA...
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.
IN ACCORDANCE WITH EGM 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...
JENNIFER IRVINE, PE COUNTY ENGINEER/ECM ADMINISTRATOR

GEC PLAN



EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT



2507/2508 WEYBURN WY
2509/2507 WEYBURN WY
SCH'S: 533208031-2
2630/2610/2605/2625 1080URN WY
SCH'S: 533208040-2
LIVING WATERS SUBDIVISION

BISMARCK ROAD
(80' PUBLIC R.O.W.)

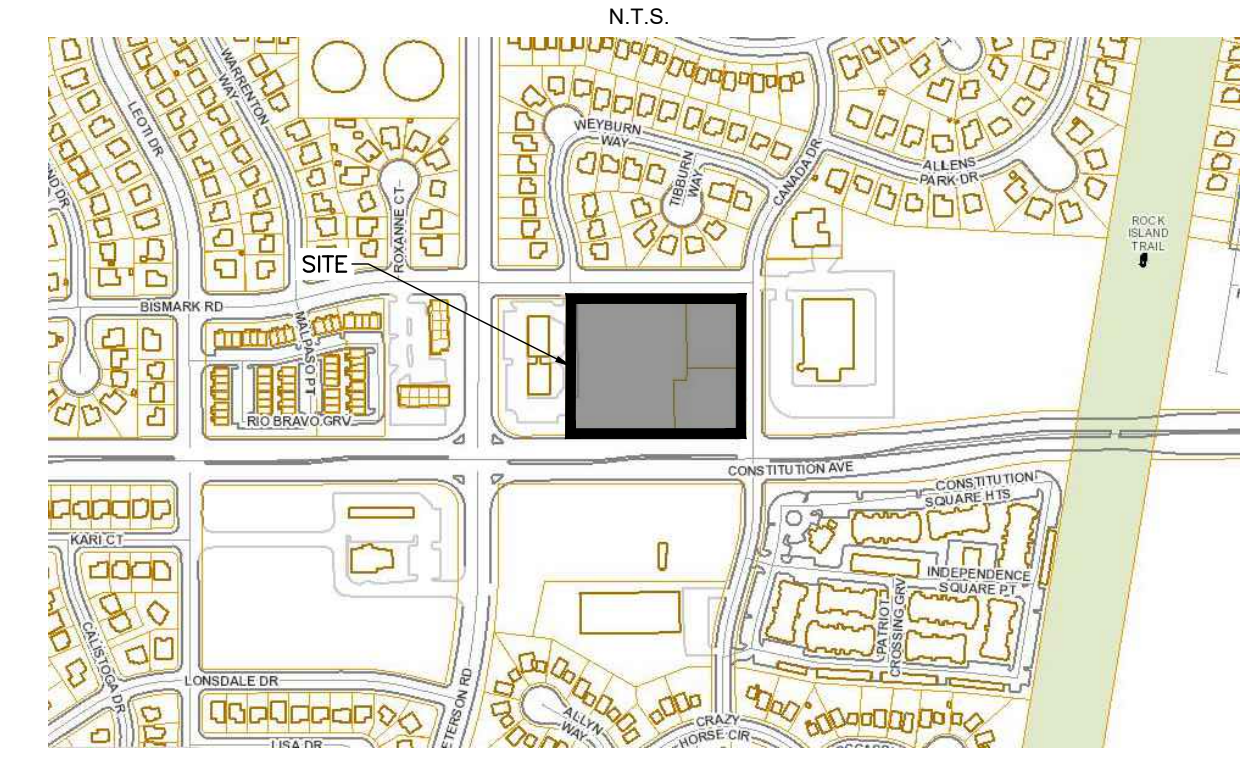
CANADA DRIVE
(60' PUBLIC R.O.W.)

CONSTITUTION AVENUE
(120' PUBLIC R.O.W.)

RESTORATION NOTES:

- 1. FURTHER DETAIL AND NOTES PROVIDED IN THE DRAINAGE CRITERIA MANUAL VOLUME III, CHAPTER 14.
2. SEE SEED MIX TABLES 14-9 THROUGH 14-14 FOR GIVEN GEOGRAPHIC AND GEOLOGIC CONDITIONS IN THE DRAINAGE CRITERIA MANUAL VOLUME III, CHAPTER 14.
3. UNLINED DRAINAGE FACILITIES AND AREAS DISTURBED DURING CONSTRUCTION SHOULD BE ACTIVELY REVEGETATED...
4. LATE WINTER TO EARLY SPRING (FEBRUARY TO EARLY APRIL) IS TYPICALLY THE NEXT MOST FAVORABLE TIME PERIOD FOR SEEDING...

VICINITY MAP



Rocky Mountain Group logo and contact info. Colorado License 51909 for Civil Only. Project Name: NORTHCREST PEMB DEVELOPMENT. Address: 2510 & 2522 CANADA DRIVE, COLORADO SPRINGS, COLORADO. Leisore Construction. Design Development. Sheet No: C-01 of 12.

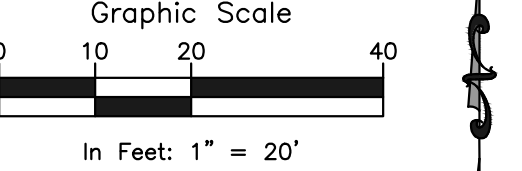
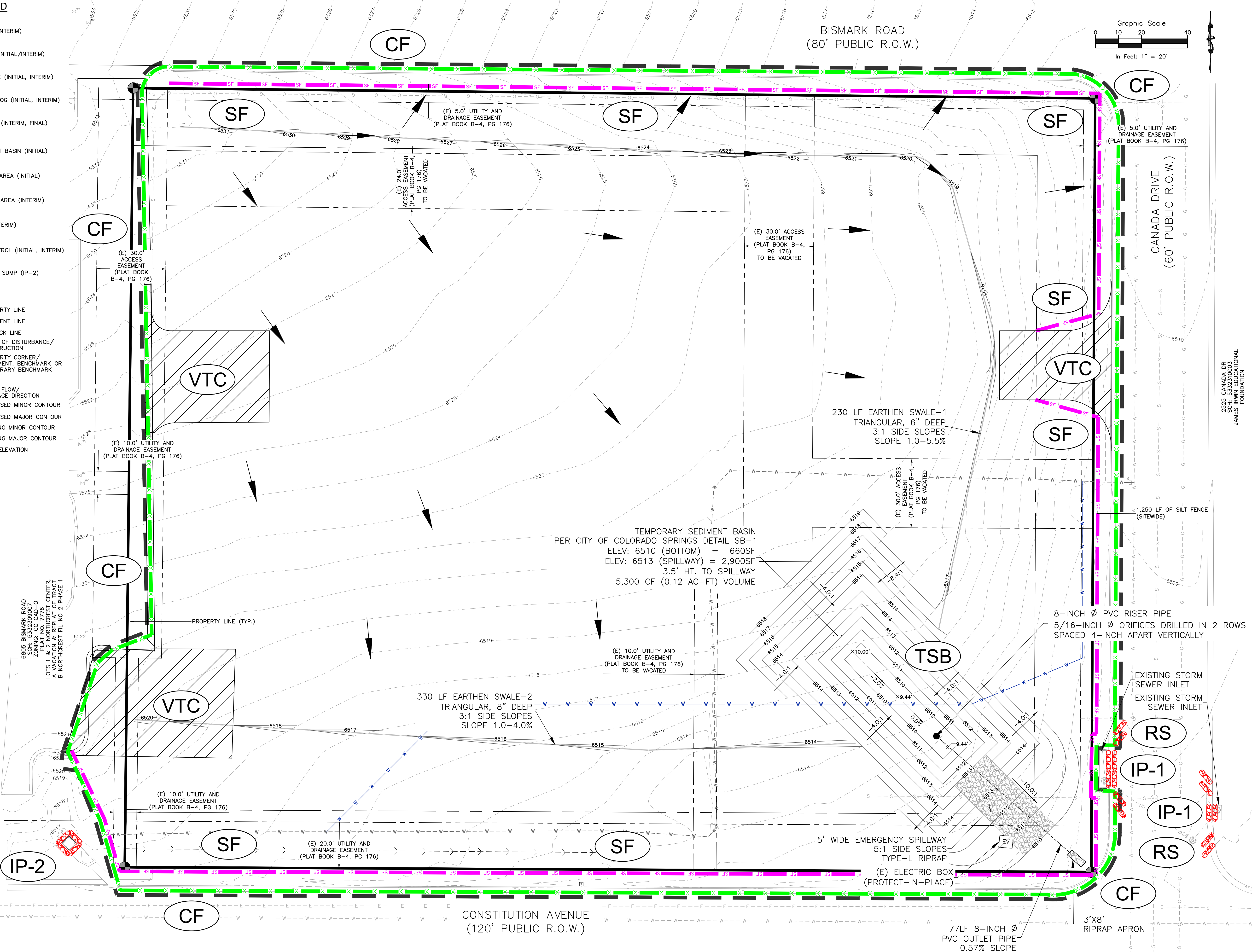
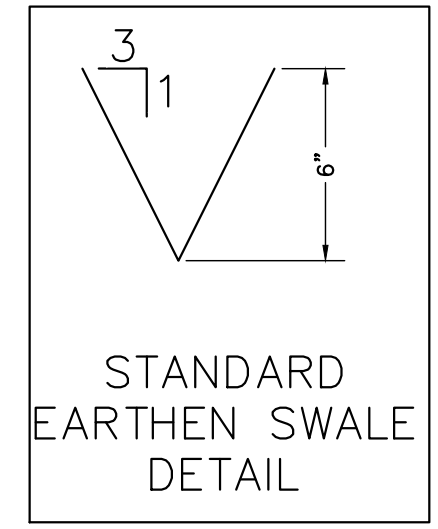
**EROSION CONTROL LEGEND**

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**SITE HATCHING**

- AREAS OF CUT (**CUT**)
- AREAS OF FILL (**FILL**)
- ▨ PROP. STRUCTURE/BUILDING
- ▤ PROP. SIDEWALK



**ROCKY MOUNTAIN GROUP**  
 ARCHITECTS  
**RMG ENGINEERS**  
 ARCHITECTURAL  
 STRUCTURAL  
 FORENSIC  
 CIVIL  
 TRAINING  
 CONSULTANTS

2910 AUSTIN BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918  
 WWW.ROCKYMOUNTAINENGINEERS.COM  
 719.533.2310

**COLORADO LICENSE**  
 12/07/22  
 51909  
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2525 CANADA DR  
 SCH: 5332310003  
 JAMES IRWIN EDUCATIONAL FOUNDATION

**NORTHCREST PEMB DEVELOPMENT**  
 2510 & 2522 CANADA DRIVE  
 COLORADO SPRINGS, COLORADO  
 LEISURE CONSTRUCTION

**EROSION CONTROL PLAN - INITIAL**

**DESIGN DEVELOPMENT**

ENG:	DGW	
DRAWN:	TPT	
CHECKED:	DGW	
DATE:	12/07/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-02	
	of 12	

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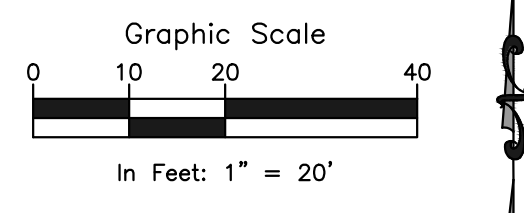
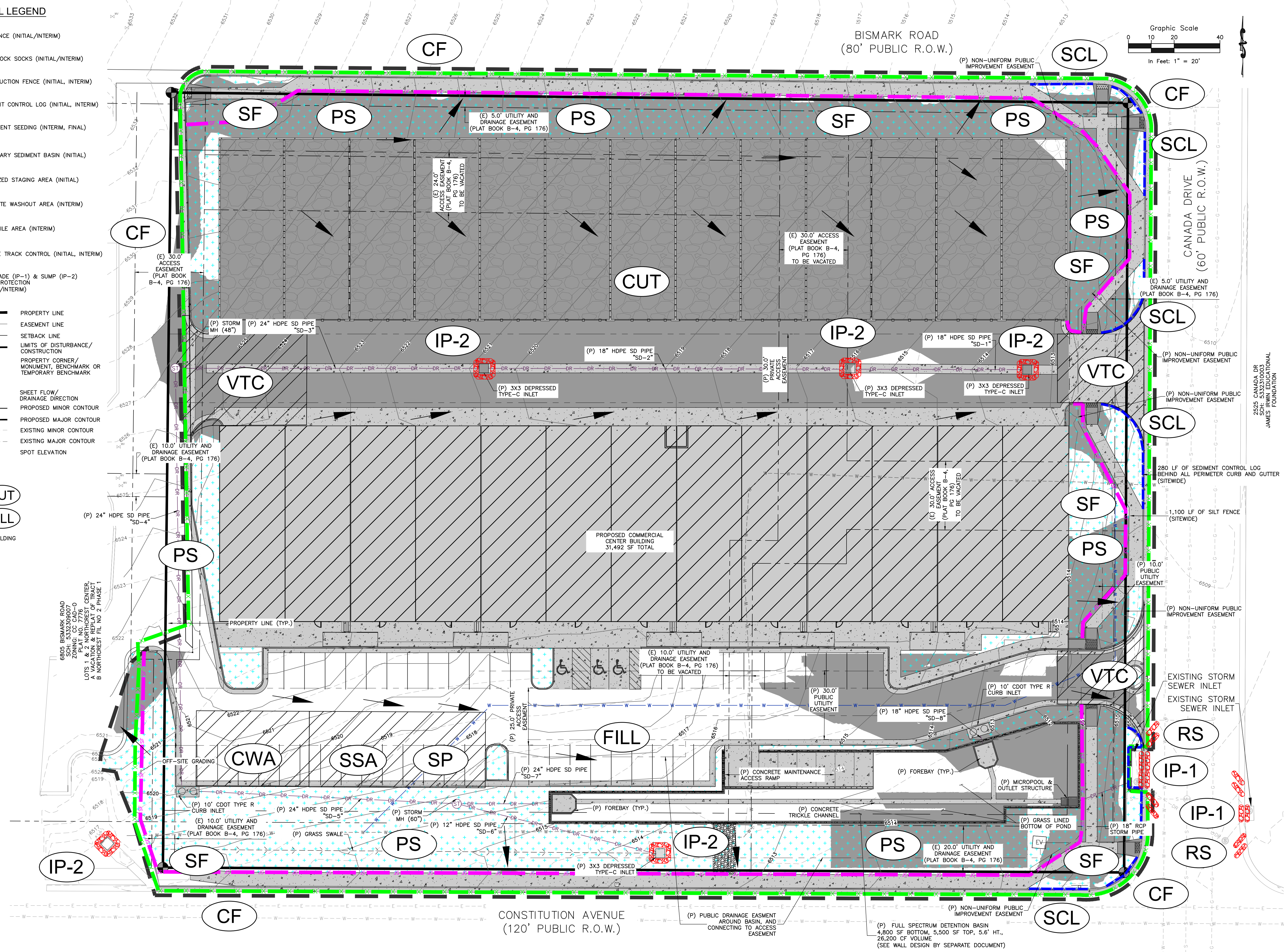
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- ▨ PROP. SIDEWALK



**ROCKY MOUNTAIN GROUP**  
ARCHITECTS  
ENGINEERS

2910 AUSTIN BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918  
WWW.ROCKYMOUNTAINENGINEERS.COM  
SUSTAINABLE DESIGN • CIVIL ENGINEERING • GEOTECHNICAL ENGINEERING

COLORADO LICENSE  
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2525 CANADA DR  
SCH: 5332310003  
JAMES IRWIN EDUCATIONAL FOUNDATION

**NORTHEAST PEMB DEVELOPMENT**  
2510 & 2522 CANADA DRIVE  
COLORADO SPRINGS, COLORADO  
LEISURE CONSTRUCTION

**EROSION CONTROL PLAN - INTERIM**  
DESIGN DEVELOPMENT

ENG: DOW  
DRAWN: TPT  
CHECKED: DOW  
DATE: 12/07/2022

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JOB NO: 180649  
SHEET NO: C-03  
of 12

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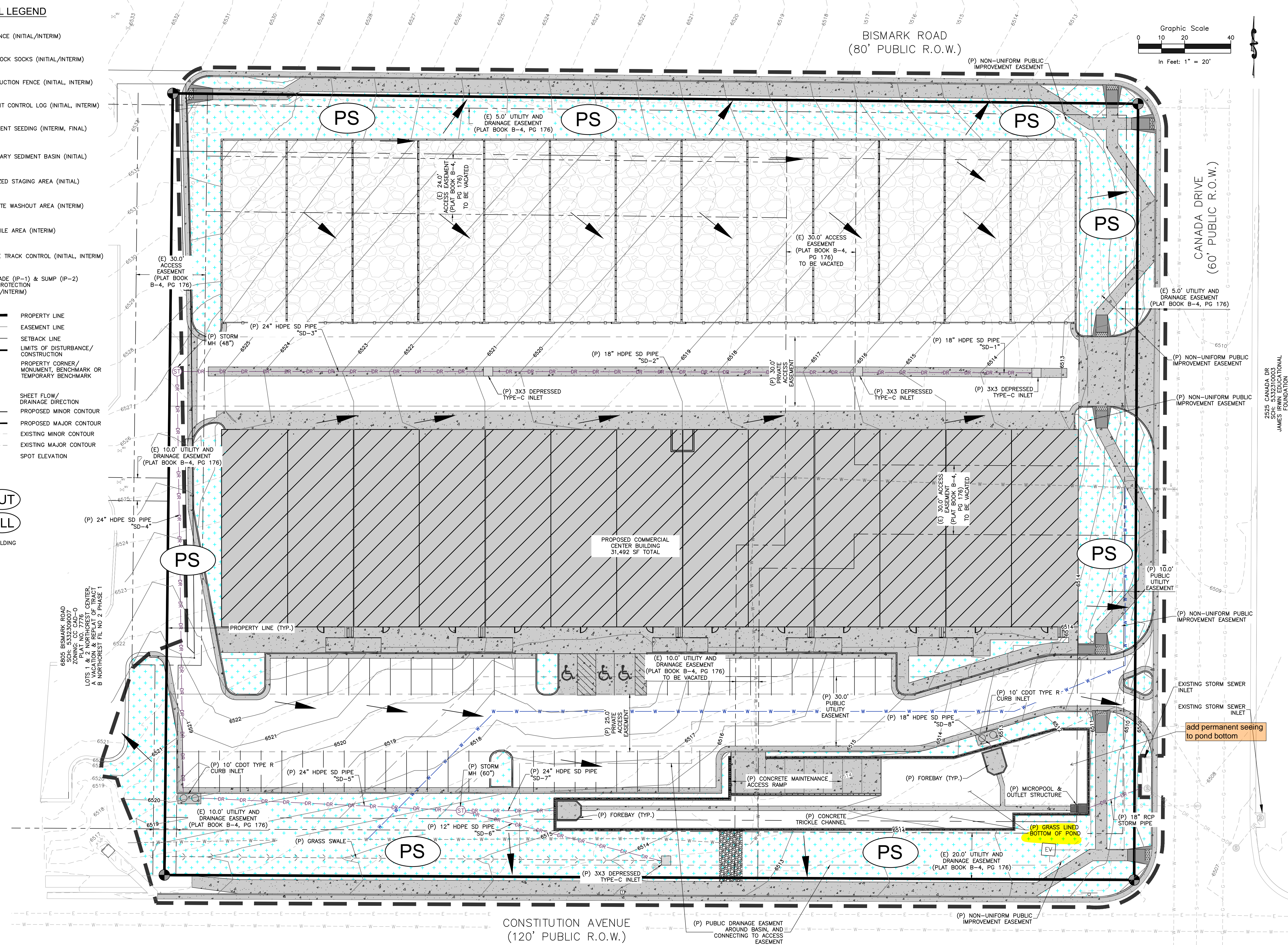
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**EROSION CONTROL LEGEND**

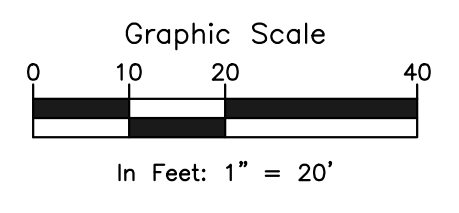
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- SITE HATCHING**
- AREAS OF CUT **CUT**
  - AREAS OF FILL **FILL**
  - PROP. STRUCTURE/BUILDING
  - PROP. SIDEWALK



6805 BISMARCK ROAD  
 SCH. 5332309007  
 ZONING: CC CAD-0  
 PLAT NO. 7776  
 VACATING 22 MORPHES CENTER, INTERIM, AND 22 MORPHES CENTER, PERMANENT, TO TRACT B NORTHWEST FIL NO. 2 PHASE 1



**ROCKY MOUNTAIN GROUP**  
 ARCHITECTS  
**RMG ENGINEERS**  
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 STRUCTURAL  
 FORENSIC  
 2910 AUSTIN BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918  
 719.536.6600 WWW.ROCKYMOUNTAINENGINEERS.COM  
 SURVEYING, ENGINEERING, DESIGN, PLANNING, INSPECTION, CONSTRUCTION

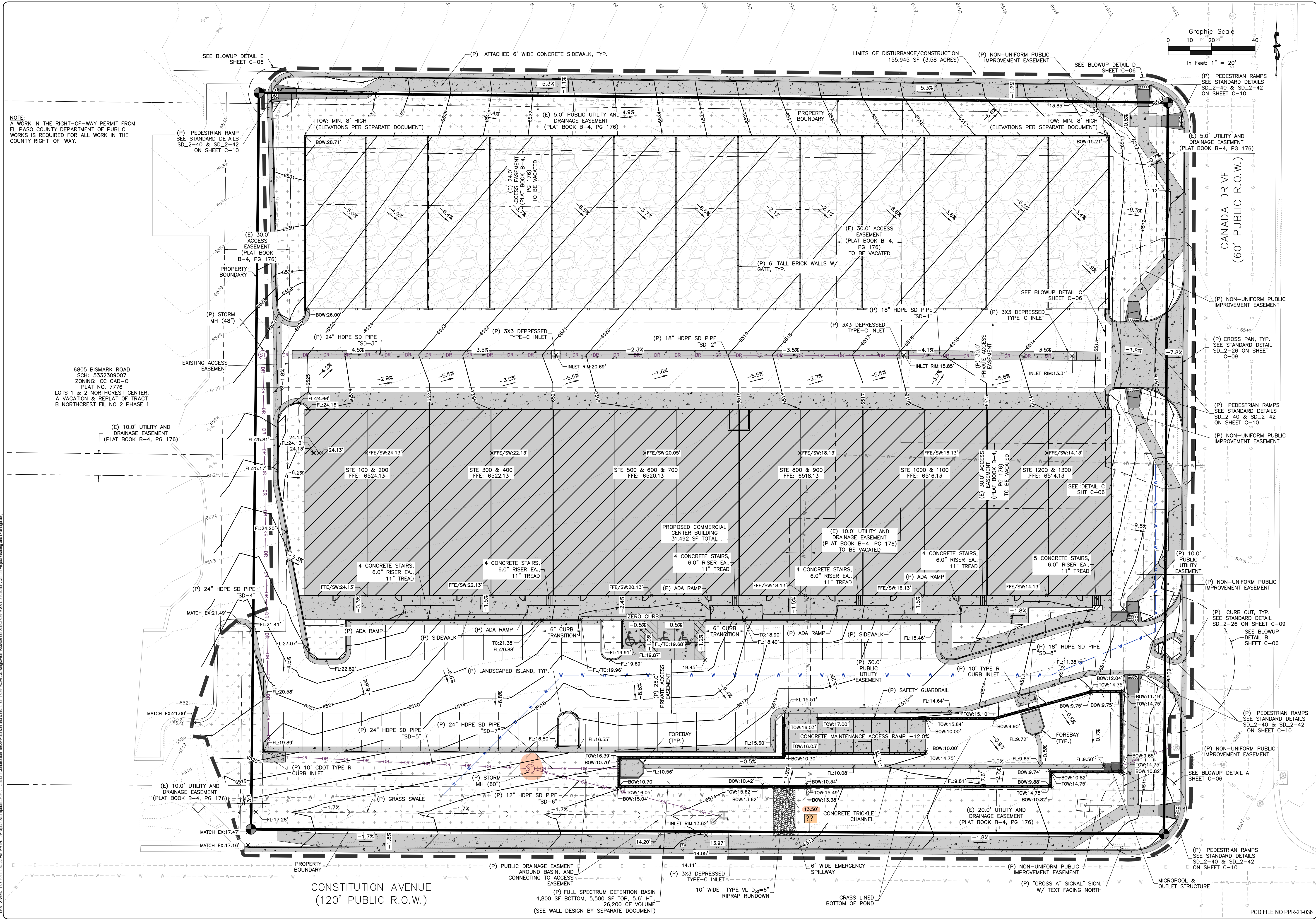
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**NORTHWEST PEMB DEVELOPMENT**  
 2510 & 2522 CANADA DRIVE  
 COLORADO SPRINGS, COLORADO  
 LEISURE CONSTRUCTION

**EROSION CONTROL PLAN - FINAL**  
 DESIGN DEVELOPMENT

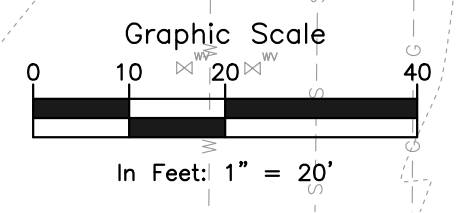
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JOB NO.:	180649	
SHEET NO.:	C-04	
of 12		



NOTE:  
A WORK IN THE RIGHT-OF-WAY PERMIT FROM  
EL PASO COUNTY DEPARTMENT OF PUBLIC  
WORKS IS REQUIRED FOR ALL WORK IN THE  
COUNTY RIGHT-OF-WAY.

6805 BISMARCK ROAD  
SCH: 5332309007  
PLAT NO. 7776  
LOTS 1 & 2 NORTHEAST CENTER,  
A VACATION & REPLAT OF TRACT  
B NORTHEAST FIL NO 2 PHASE 1

CONSTITUTION AVENUE  
(120' PUBLIC R.O.W.)



ROCKY MOUNTAIN GROUP

Architectural  
Structural  
Forensics

ROCKY MOUNTAIN GROUP

ARCHITECTS  
ENGINEERS

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SOUTHERN CALIFORNIA DRIVE, COLORADO SPRINGS, CO 80905

12/07/22  
51909

DAVID GERALD WALKER  
FOR CIVIL ONLY

NORTHEAST PEMB DEVELOPMENT

2510 & 2522 CANADA DRIVE  
COLORADO SPRINGS, COLORADO

LEISURE CONSTRUCTION

PRELIMINARY GRADING &  
DRAINAGE

DESIGN DEVELOPMENT

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CHECKED: DOW  
DATE: 12/07/2022

# REVISION DATE

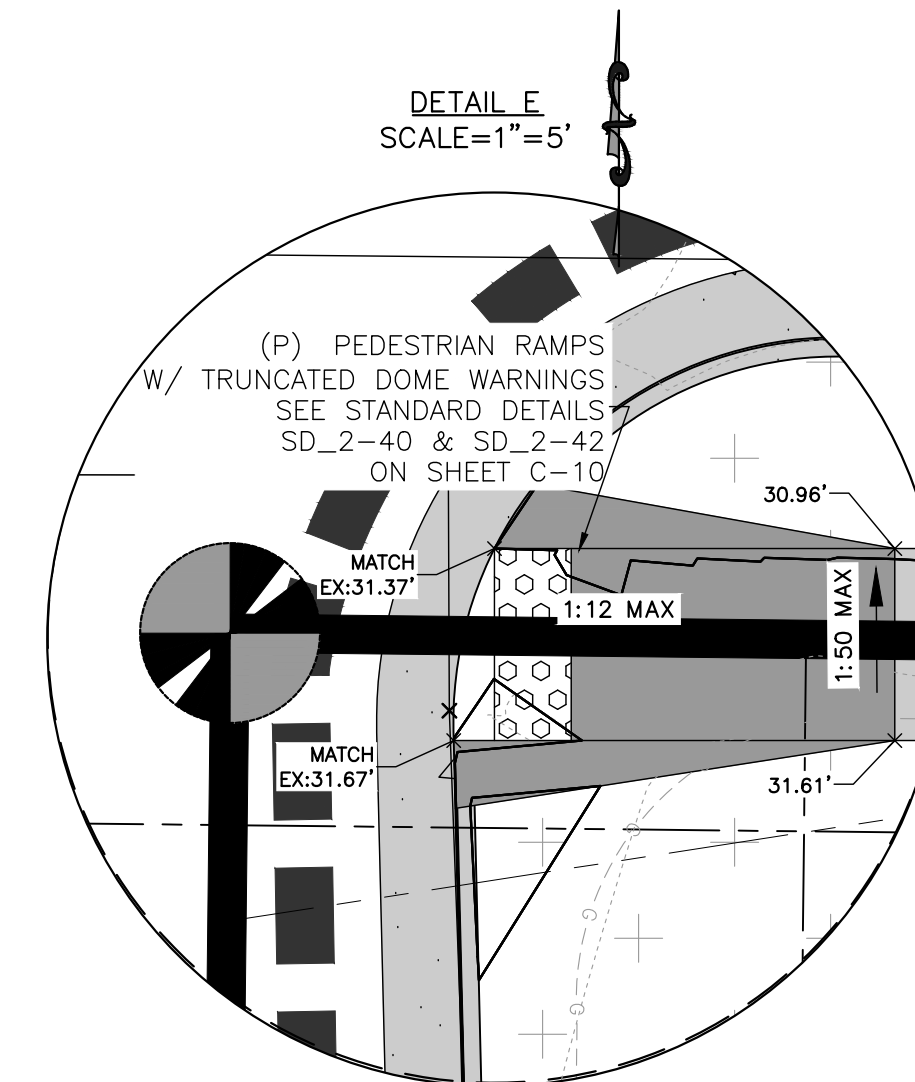
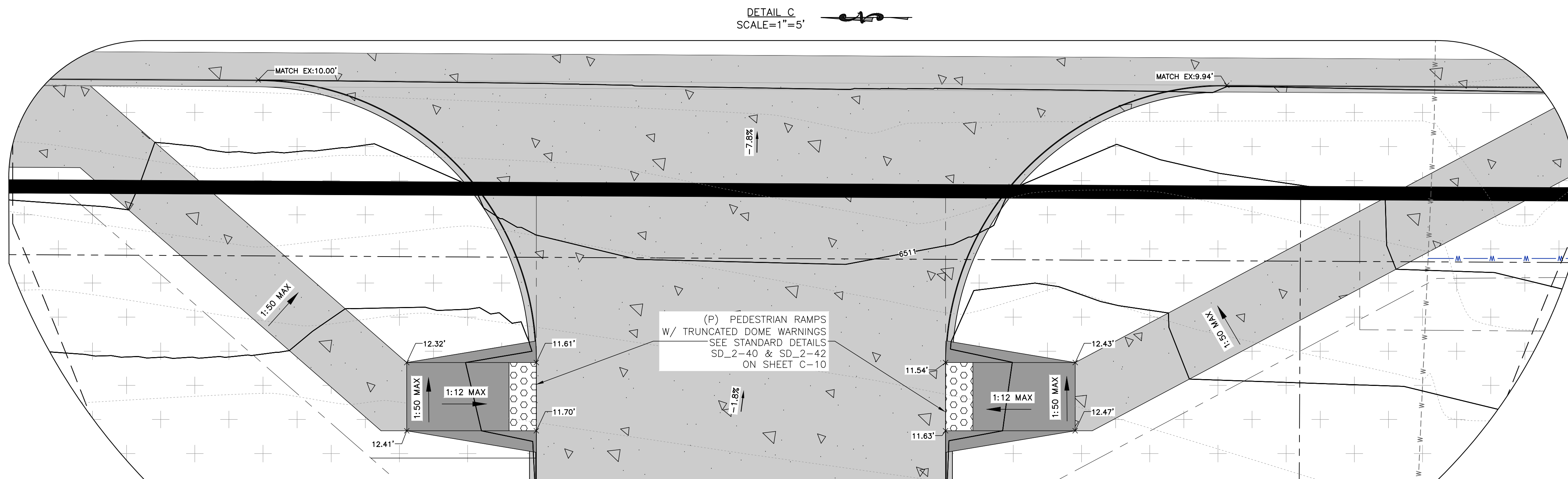
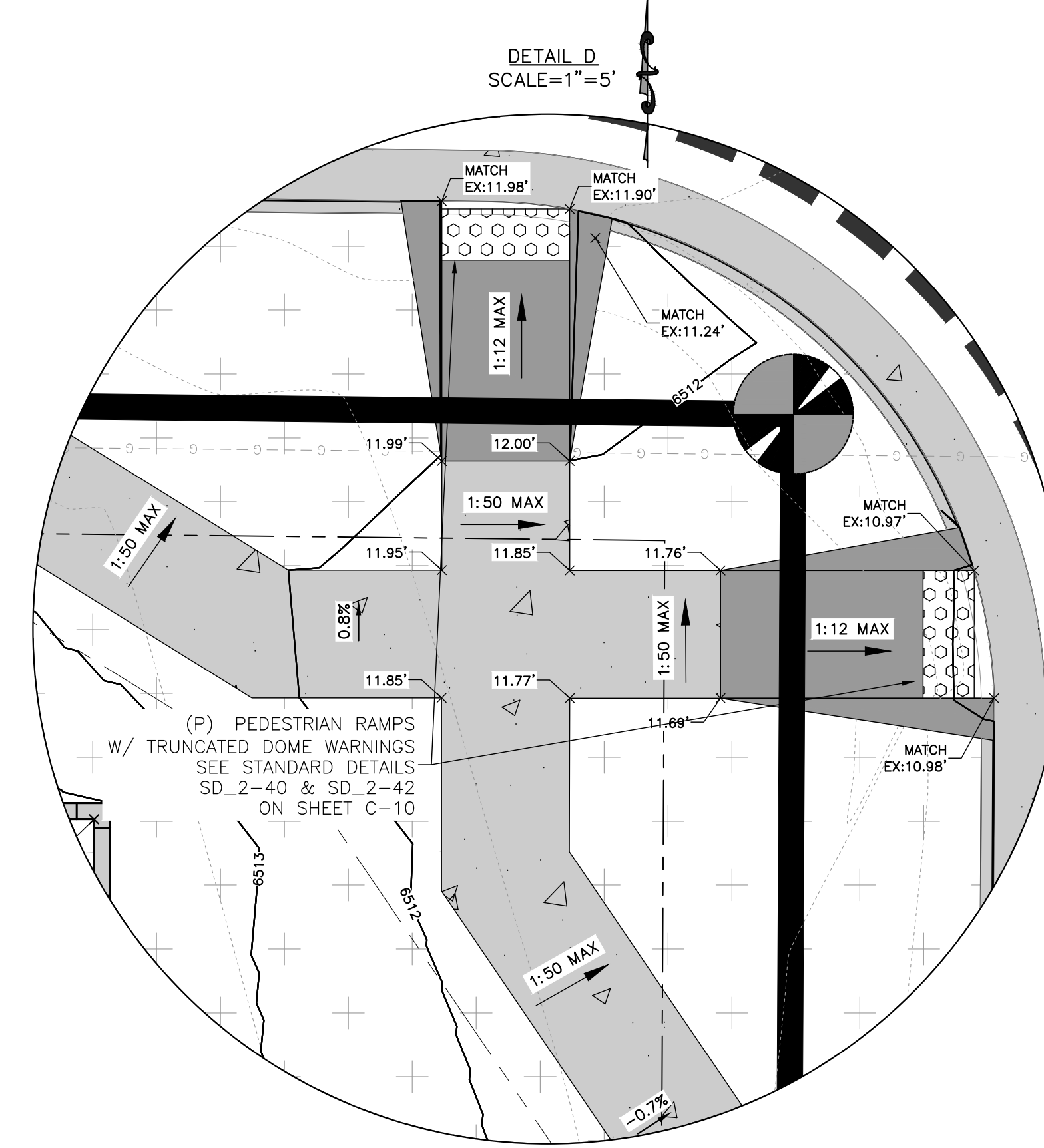
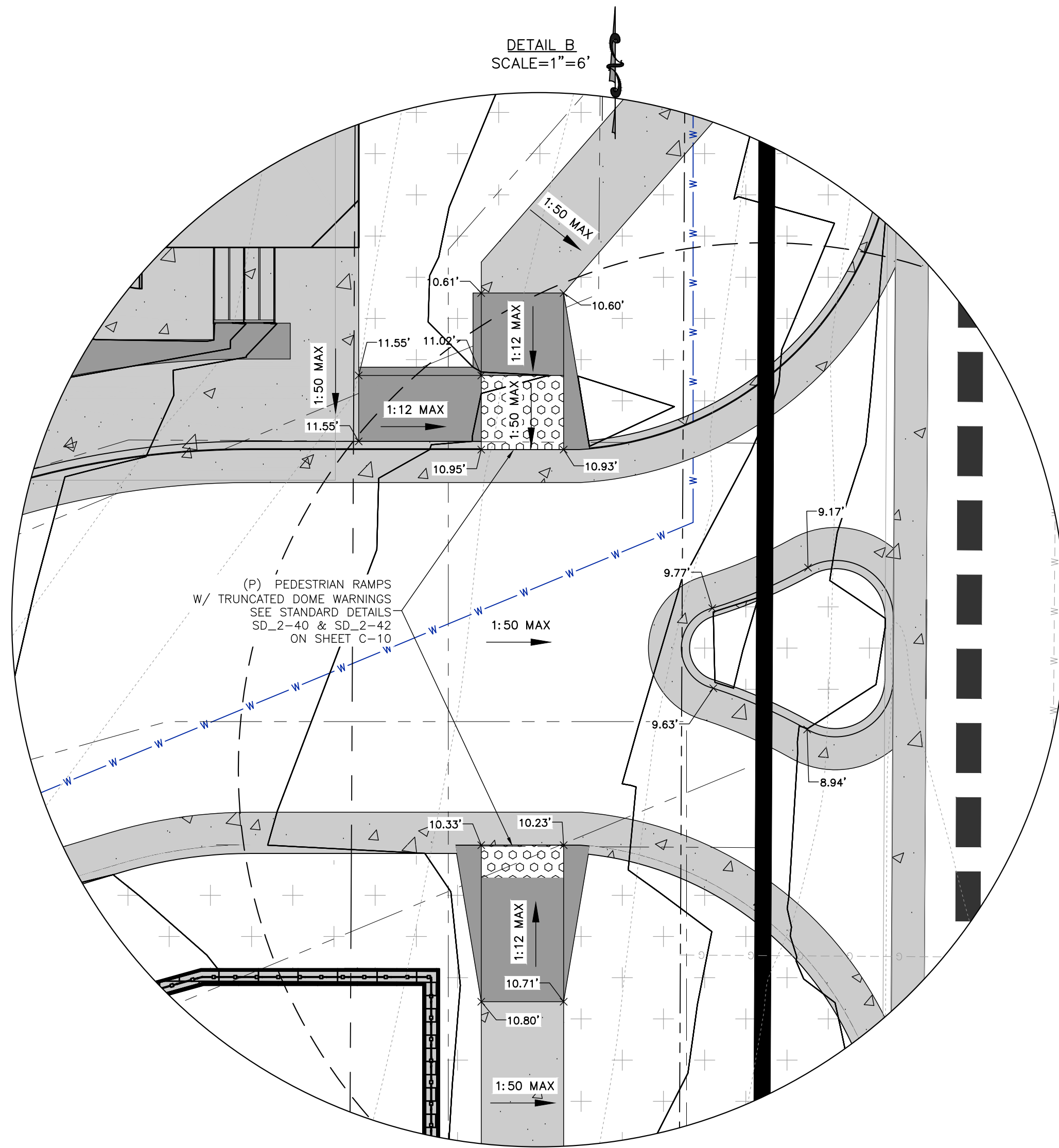
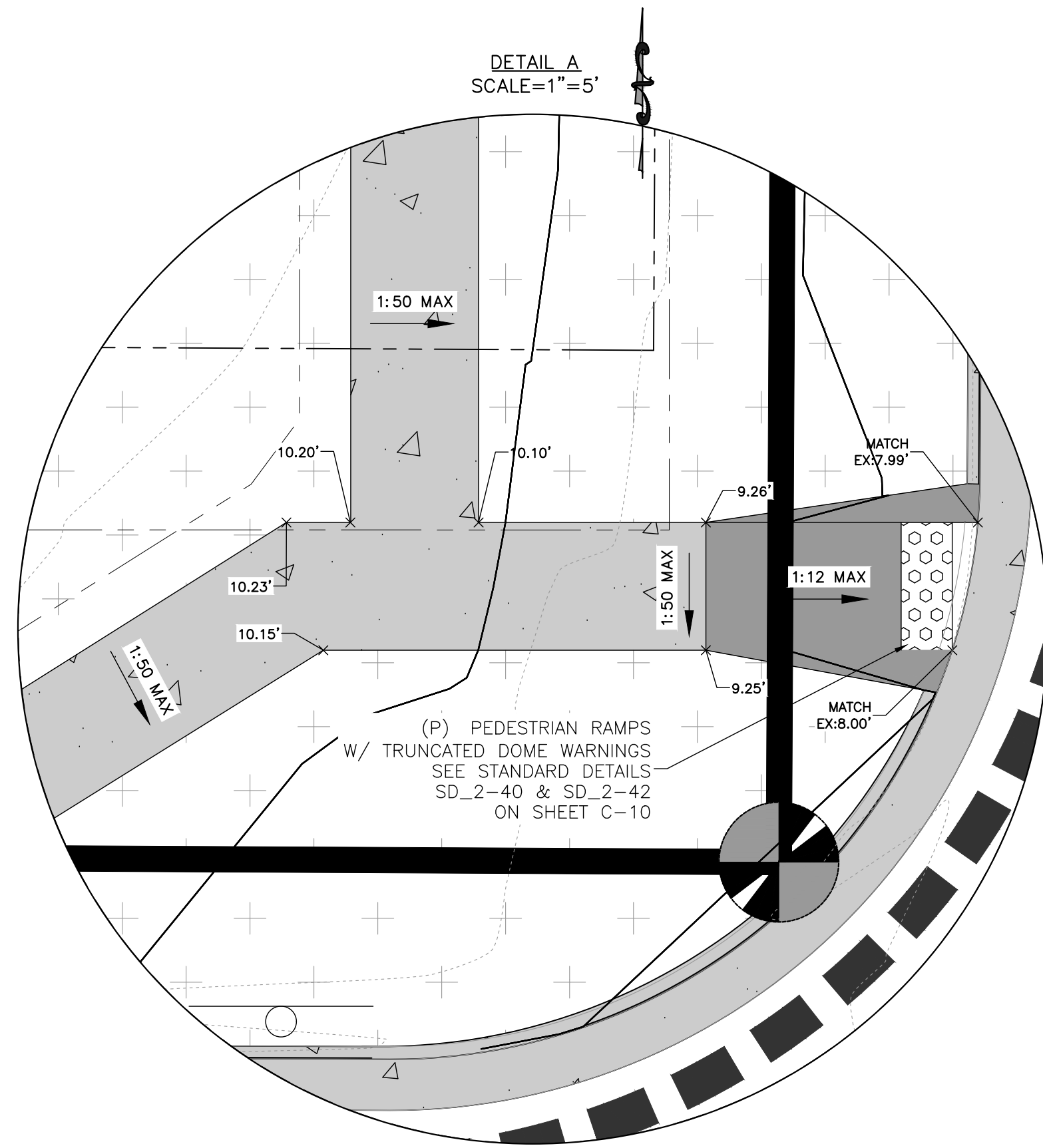
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PCD FILE NO PPR-21-036

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**ROCKY MOUNTAIN GROUP**  
ARCHITECTS  
ENGINEERS

Geotechnical  
Materials Testing  
Civil Planning

Architectural  
Structural  
Forensics

SOUTHERN COLORADO  
2910 AUSTIN BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918  
719.536.6600 WWW.ROCKYMOUNTAINENGINEERS.COM  
SOUTHERN COLORADO DESIGN GROUP, NORTHWOOD, COLORADO

COLORADO LICENSED  
12/07/22  
51909  
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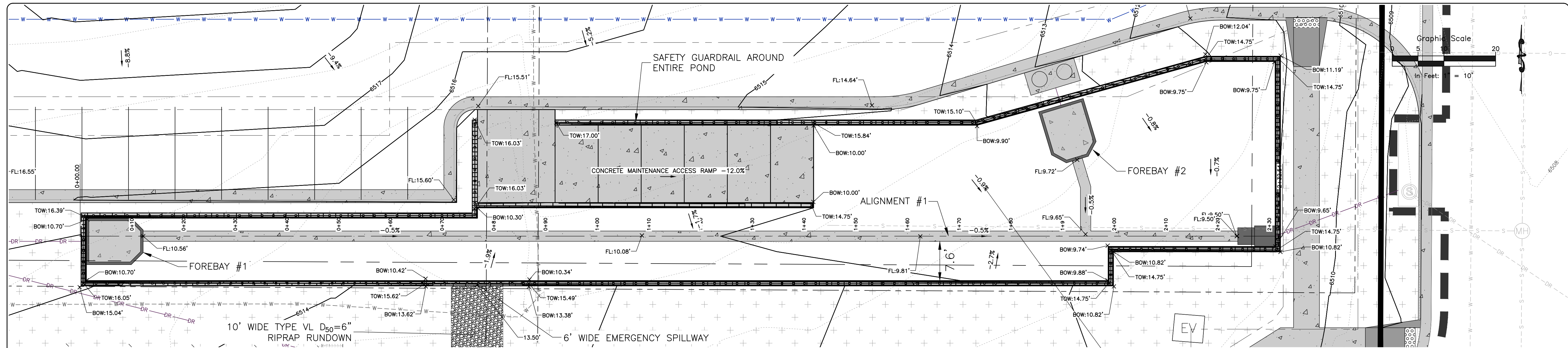
NORTHCREST PEMB DEVELOPMENT  
2510 & 2522 CANADA DRIVE  
COLORADO SPRINGS, COLORADO  
LEISURE CONSTRUCTION

SHEET NAME: PRELIMINARY GRADING & DRAINAGE  
PROJECT STATUS: DESIGN DEVELOPMENT

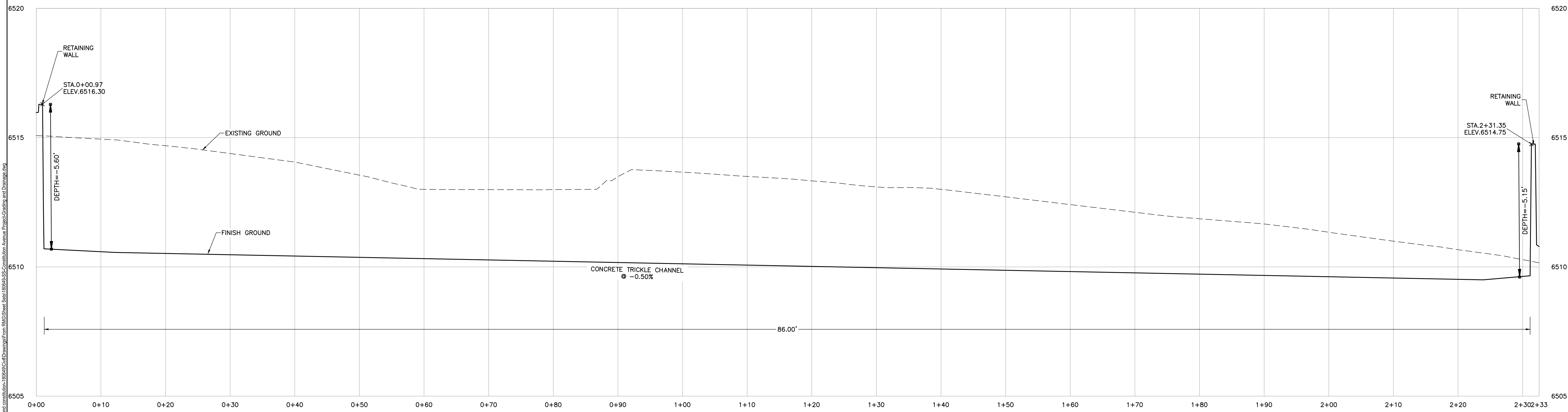
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JOB NO.: 180649  
SHEET NO.: C-06



Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



PROFILE VIEW - ALIGNMENT #1  
 HOR. SCALE : 1"=8'  
 VERT. SCALE : 1"=2'

**ROCKY MOUNTAIN GROUP**  
 ARCHITECTS  
 ENGINEERS  
 CIVIL  
 SURVEYORS  
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**NORTHCREST PEMB DEVELOPMENT**  
 2510 & 2522 CANADA DRIVE  
 COLORADO SPRINGS, COLORADO  
 LEISURE CONSTRUCTION

**DETENTION BASIN PLAN & PROFILES**  
 DESIGN DEVELOPMENT

ENG: SAM  
 DRAWN: SAM  
 CHECKED: SAM  
 DATE: 12/07/2022

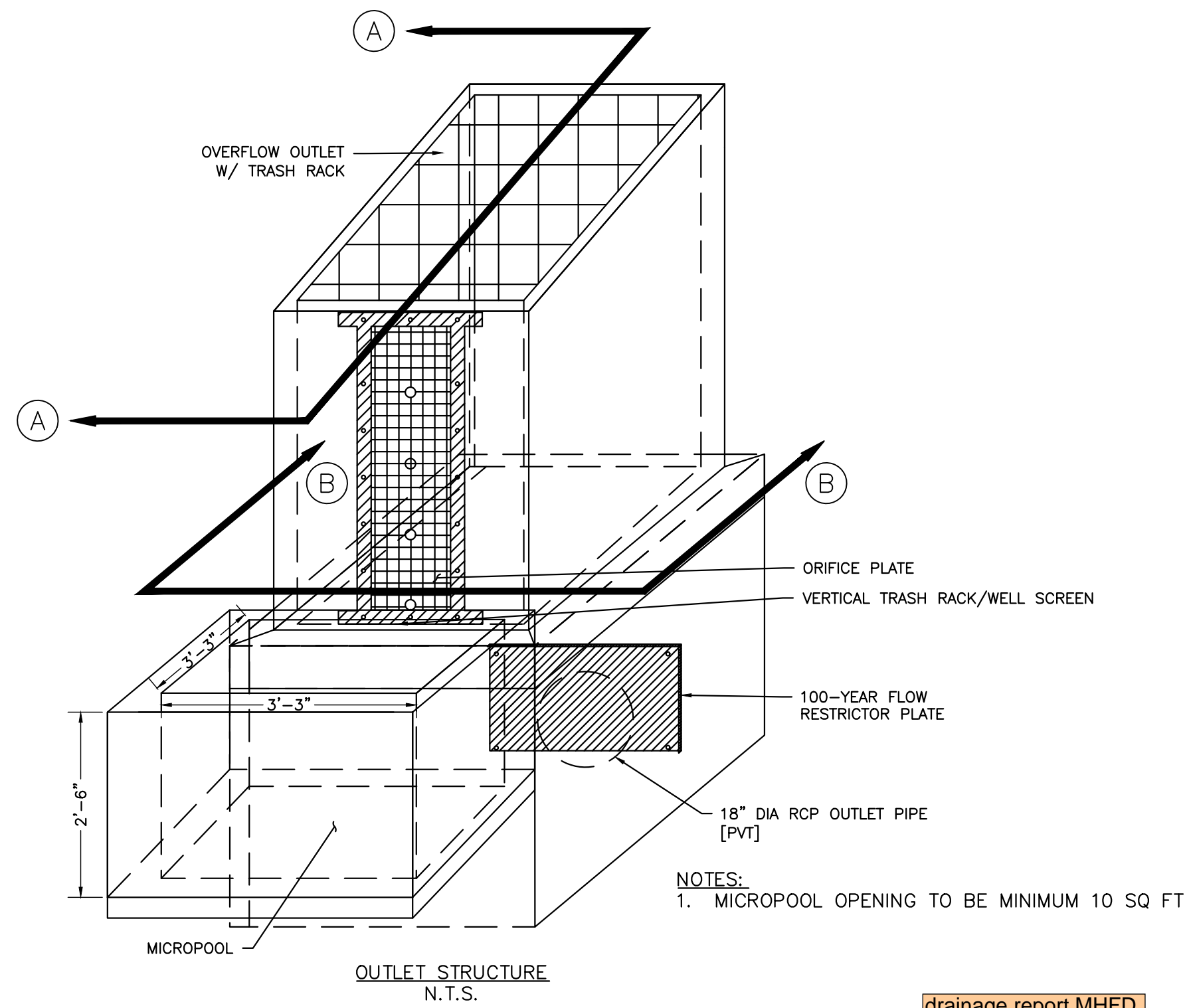
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JOB NO. 180649  
 SHEET NO. C-07  
 of 12

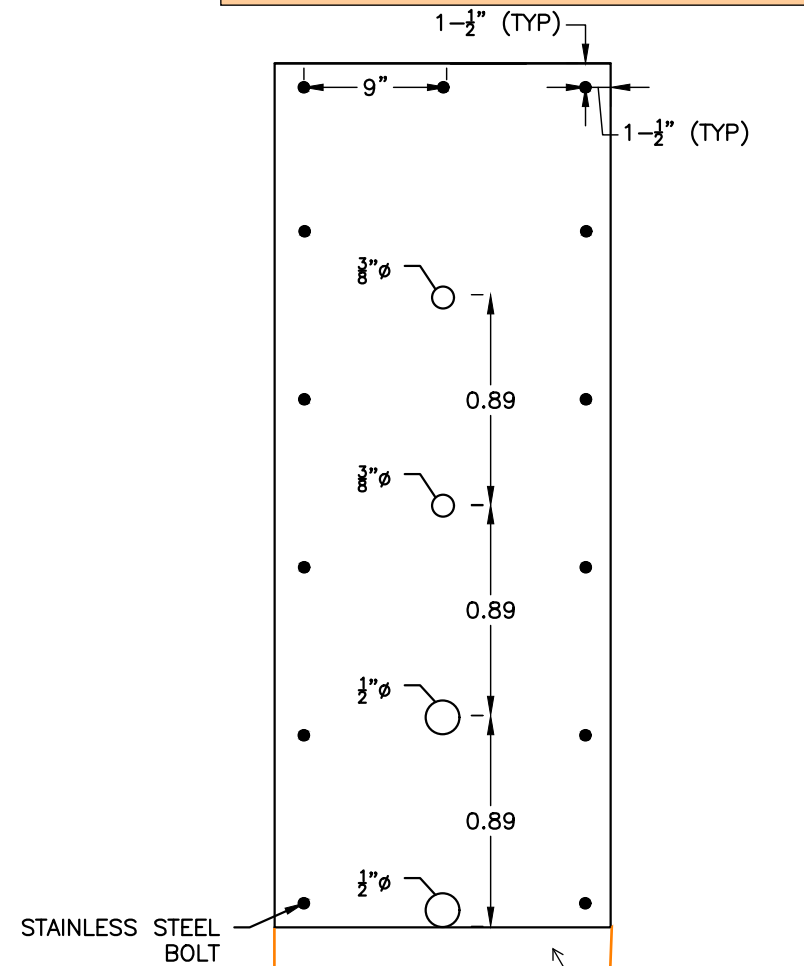
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there are no dimensions provided for the outlet structure and contradicting information between the GEC, DR, and Pond Plans.

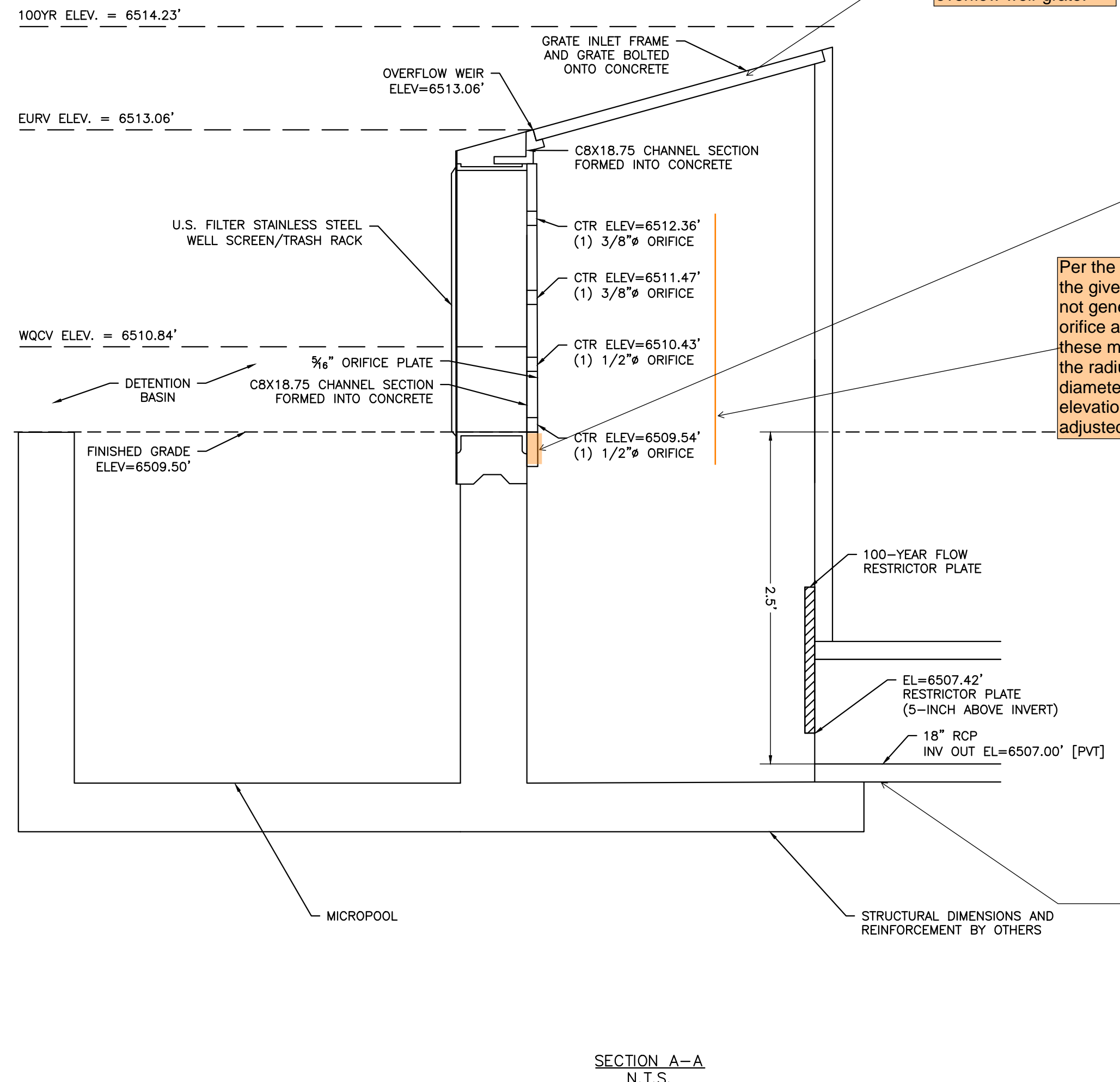
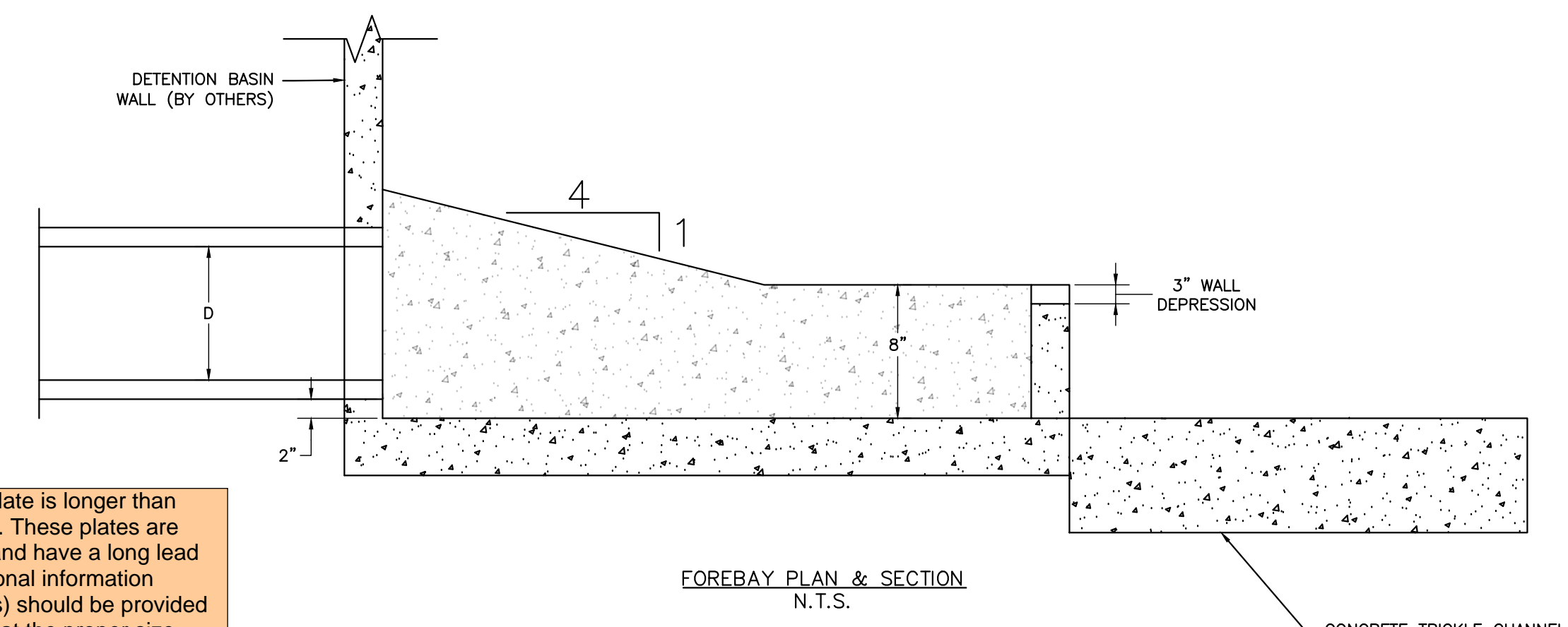
Soil riprap should also be provided on the downstream side of the forebay berm or wall if the downstream grade is lower than the top of the berm or wall. The forebay will overflow frequently so this protection is necessary for erosion control. All soil riprap in the area of the forebay should be seeded and erosion control fabric should be placed to retain the seed in this high flow area. (MHFD T-5)



show bolt locations on top and bottom of plate. Orifice plate requires a gasket or sealant to ensure a watertight seal with outlet structure.



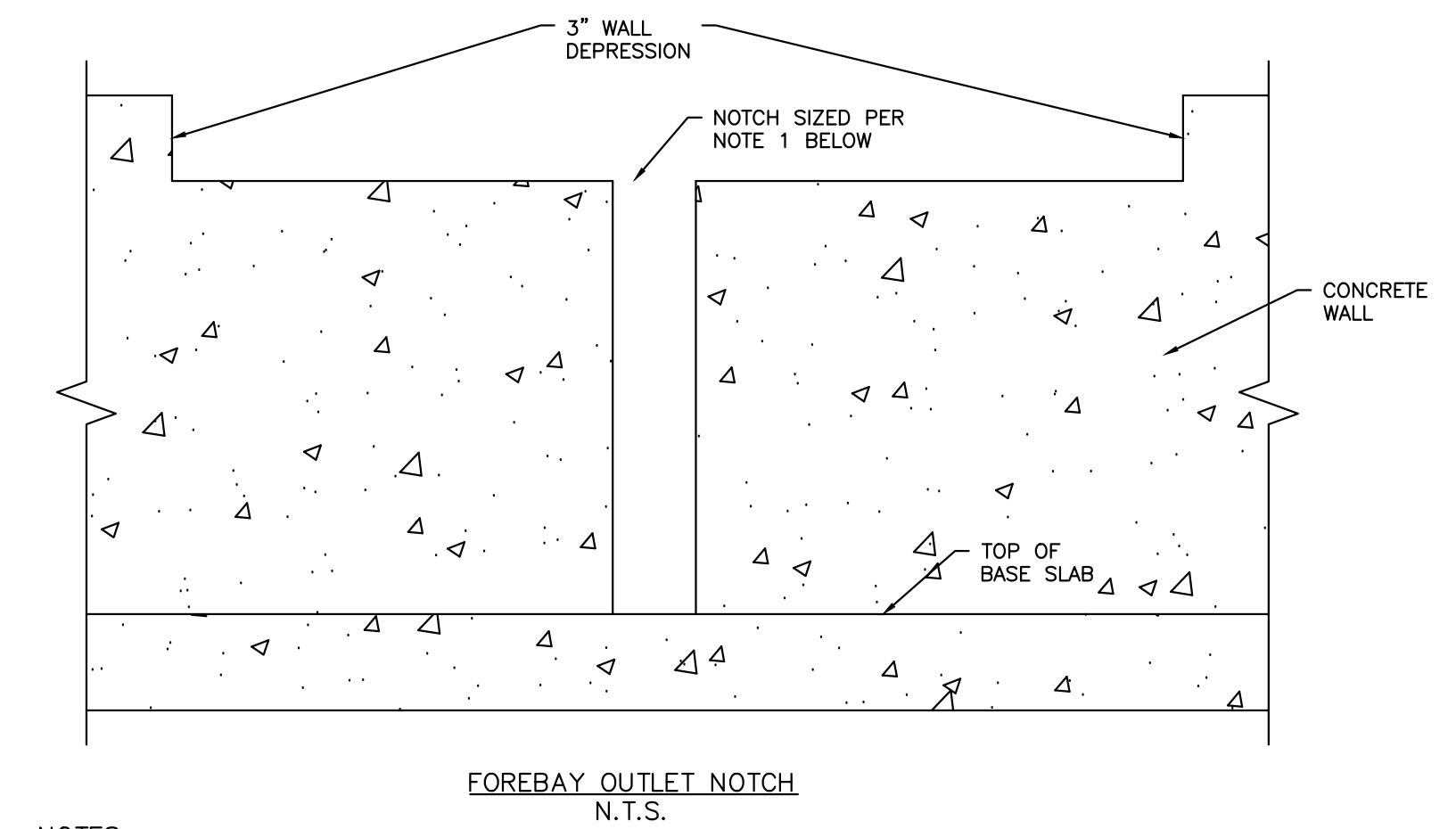
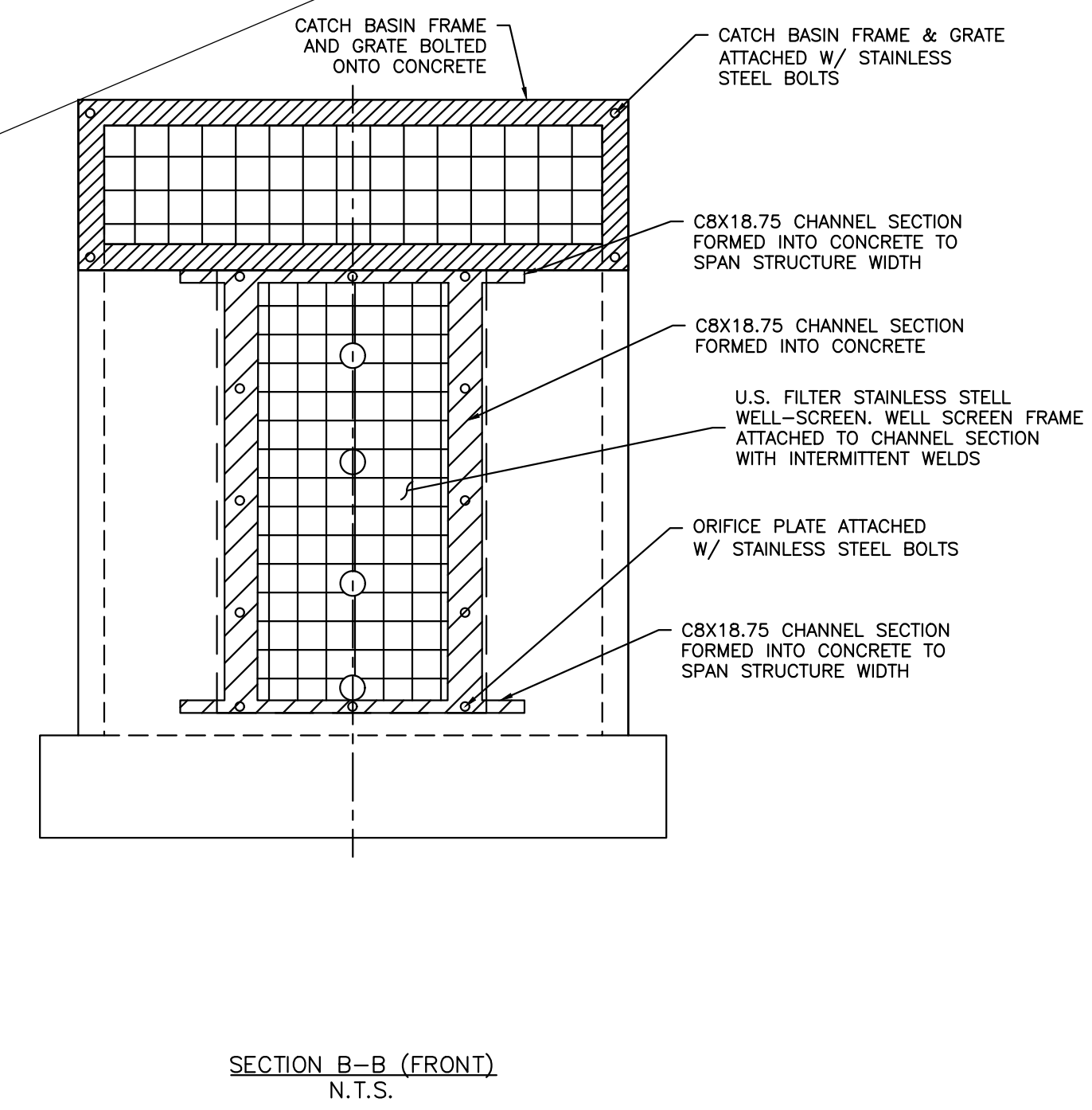
the orifice plate is longer than shown here. These plates are expensive and have a long lead time. Additional information (dimensions) should be provided to ensure that the proper size plate is ordered.



drainage report MHFD calcs state that there is no slope on the overflow weir grate.

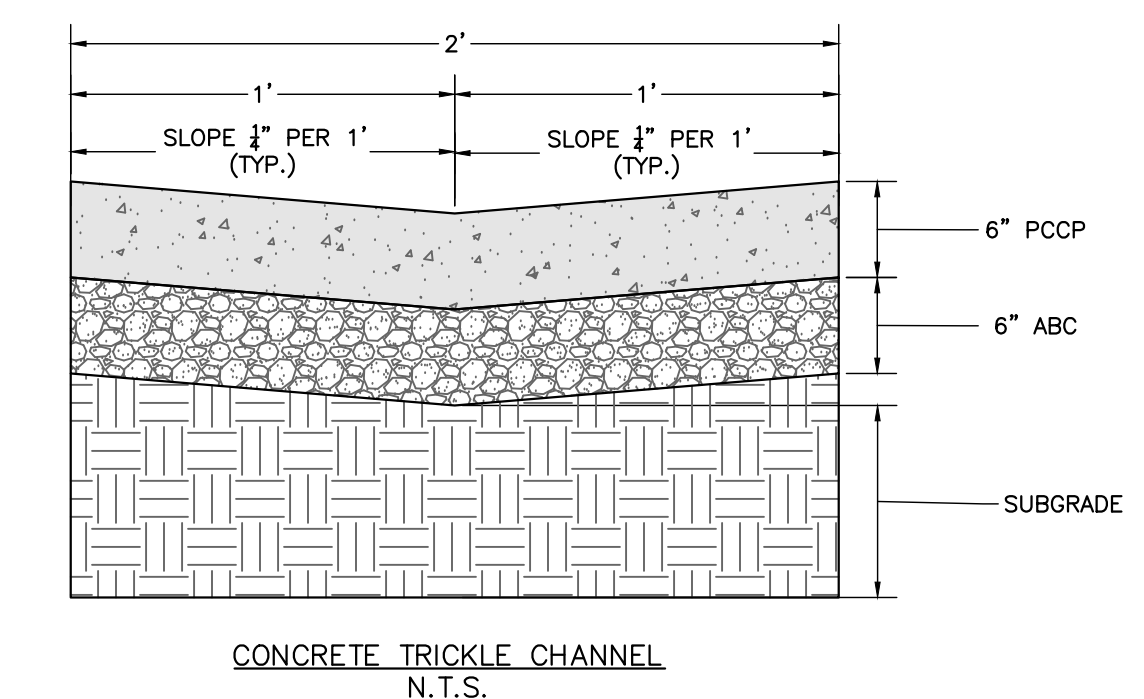
Per the drainage report, the given diameters do not generate the required orifice area. Looks like these measurements are the radius, not the diameter. All center elevations should also be adjusted accordingly.

this is 6507.00



- NOTES:
- COMBINED FOREBAY VOLUMES SIZED TO CAPTURE 2% OF WQCV. FOREBAY NOTCHES SIZED TO RELEASE 2% OF THE 100YR PEAK RUNOFF.
  - FOREBAY #1:
    - D=1.5 FT (18 IN PIPE), NOTCH=3" HIGH X 4" WIDE
    - VOLUME=MIN. 12 CU FT
  - FOREBAY #2:
    - D=1.5 FT (18 IN PIPE), NOTCH=3" HIGH X 3" WIDE
    - VOLUME=MIN. 5 CU FT

there should be two widths for each forebay. the notch width and the depression (or weir) width. the notes do not make sense. The Notch height should be 8' - 3" = 5" H



ROCKY MOUNTAIN GROUP

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Geotechnical  
Materials Testing  
Civil Planning

**RMG**

ENGINEERS

Architectural  
Structural  
Forensics

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NORTHCREST PEMB DEVELOPMENT  
2510 & 2522 CANADA DRIVE  
COLORADO SPRINGS, COLORADO  
LEISURE CONSTRUCTION

DETENTION BASIN DETAILS  
DESIGN DEVELOPMENT

SHEET NAME: DETENTION BASIN DETAILS

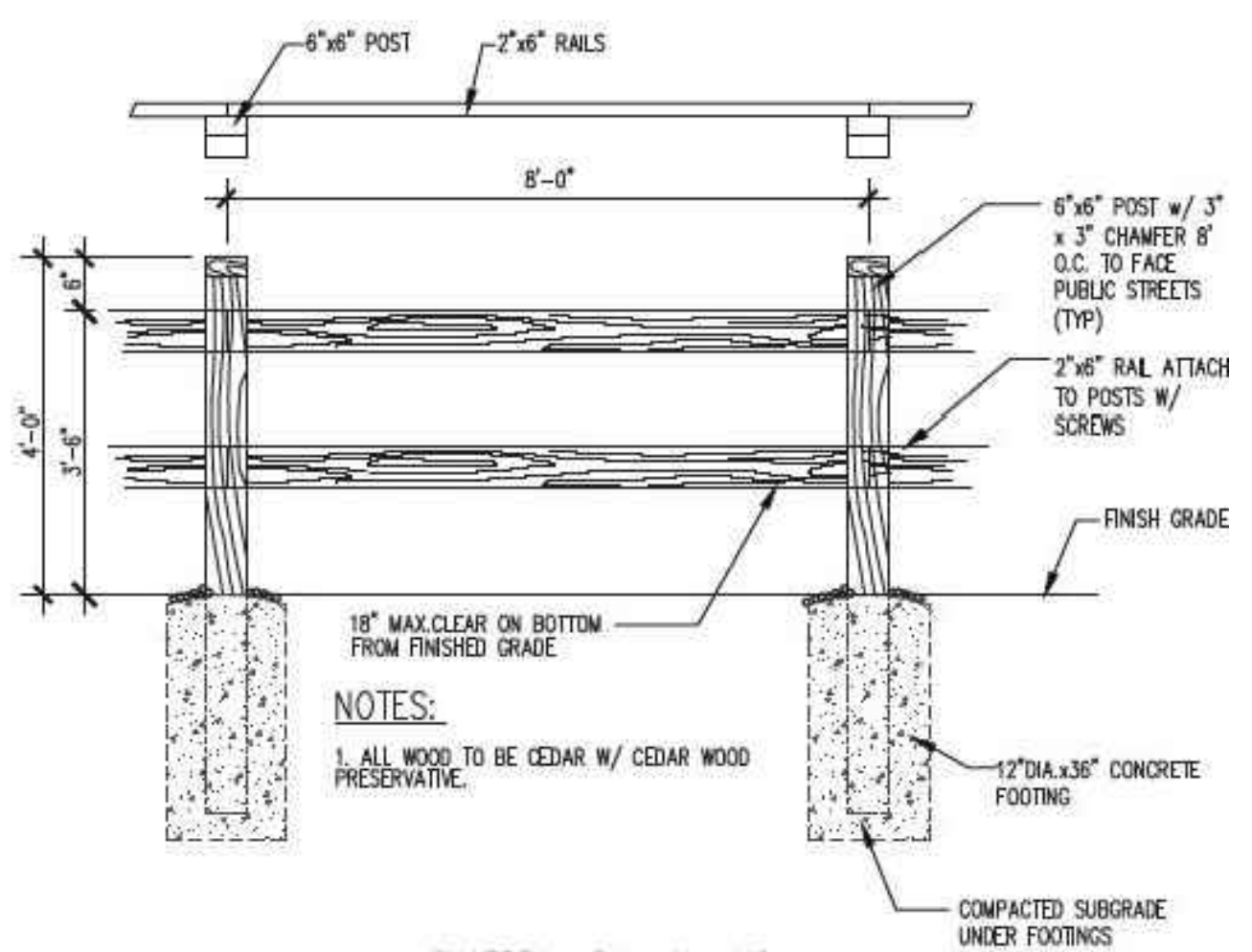
PROJECT STATUS: DESIGN DEVELOPMENT

ENG:	DGW	
DRAWN:	TPT	
CHECKED:	DGW	
DATE:	12/07/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-08	



The cedar split rail fence may be used on the south side of the detention pond

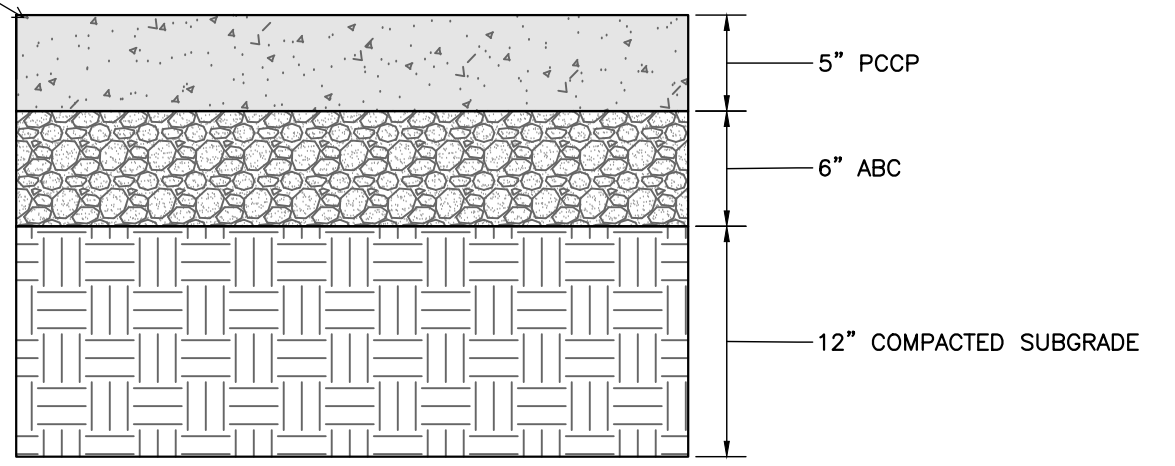
Per ECM 2.6.7.E Please add pedestrian safety metal railing along sidewalk area and along parking areas. Please show design detail either on the GEC plan or the SDP if not included on the Pond Design CDs  
 Pedestrian railing height shall be a minimum of 42 inches, measured from the walkway surface (See Figure 2-45). Railings shall not have openings large enough to pass a 4-inch sphere.



SAFETY GUARDRAIL  
N.T.S.

Include short wall on each side of the maintenance road, as shown on plan view

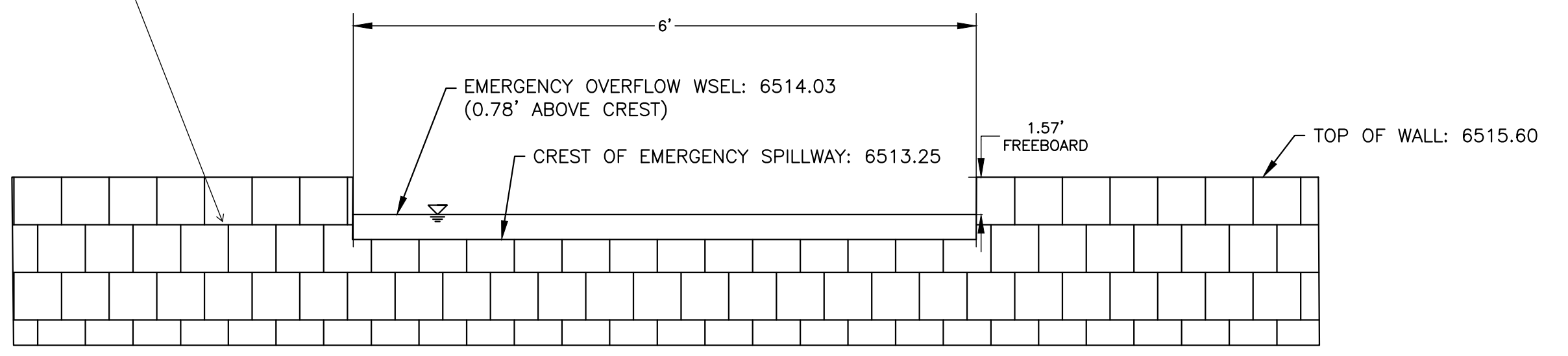
include width of maintenance road. Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2.



\*CONTRACTOR SHALL ADHERE TO AND BE FAMILIAR WITH ACI 330R-08 (LATEST REVISION) STANDARDS FOR CONCRETE JOINTING AND PLACEMENT (INCLUDING BUT NOT LIMITED TO SECTIONS 3.7, 3.8, 3.9).

CONCRETE MAINTENANCE ACCESS ROAD SECTION  
N.T.S.

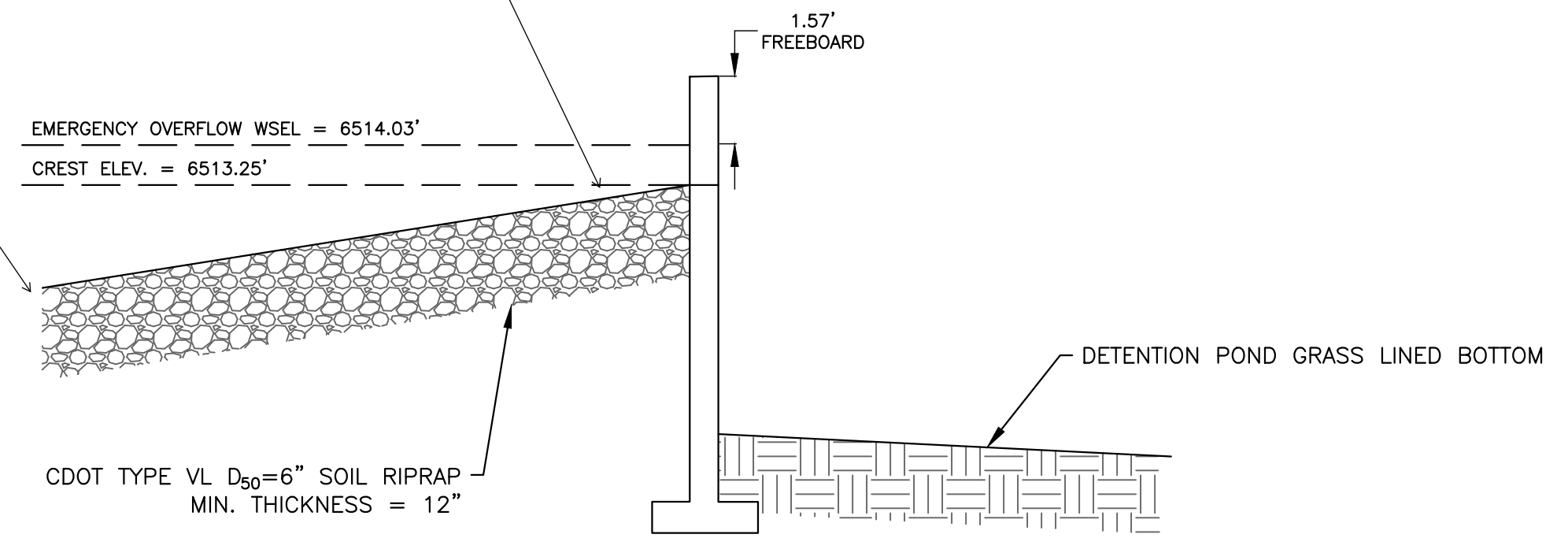
this wall should be concrete, not CMU



EMERGENCY SPILLWAY CROSS SECTION  
N.T.S.

show how it ties into sidewalk, cutoff wall, elevation at tie in, and length of spillway

The top of the crest wall at the sides should extend to the top of the embankment, at least one foot above the spillway elevation (MHFD Chapter 12)



EMERGENCY SPILLWAY PROFILE  
N.T.S.

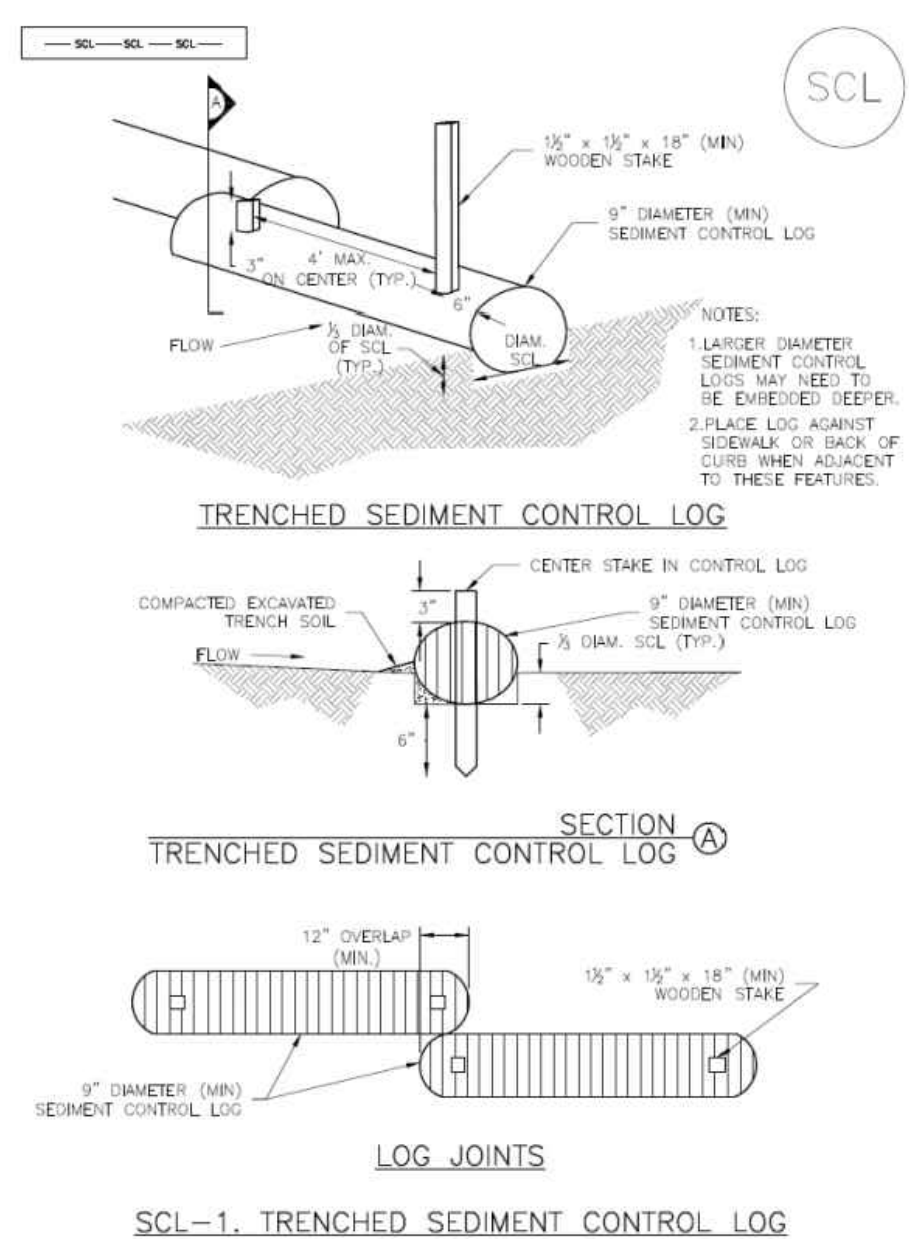
**ROCKY MOUNTAIN GROUP**  
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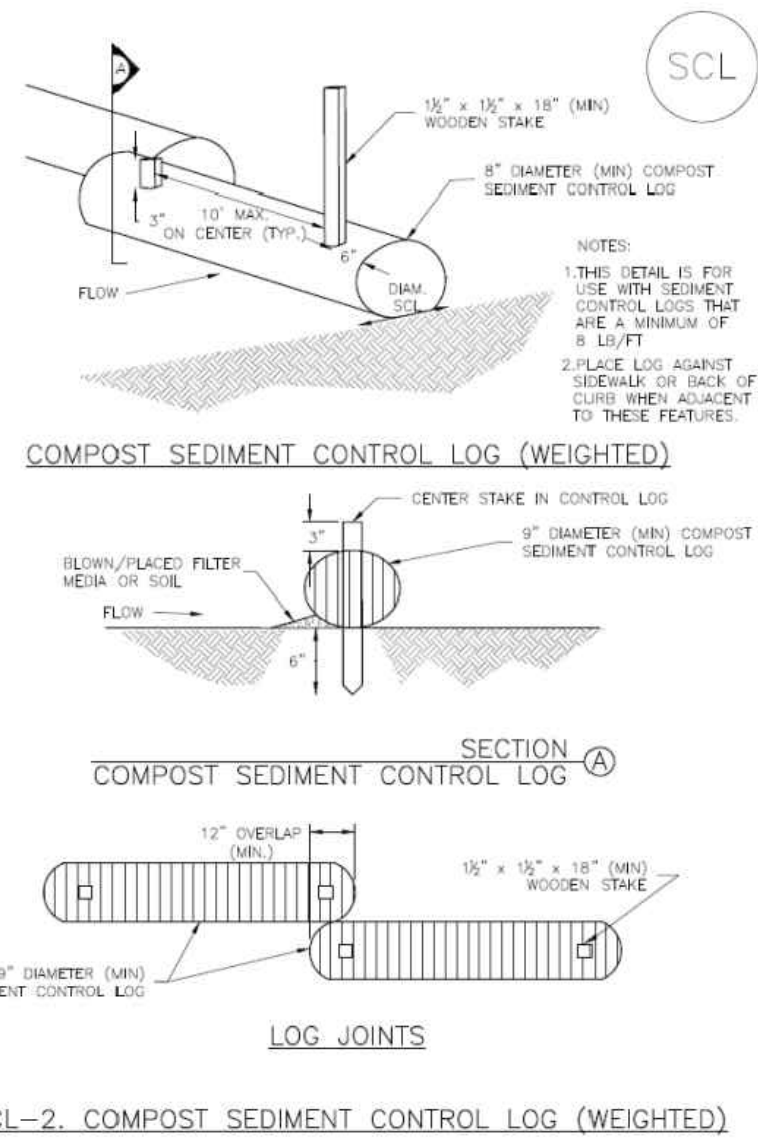
NORTHCREST PEMB DEVELOPMENT  
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DETENTION BASIN DETAILS 2  
 DESIGN DEVELOPMENT

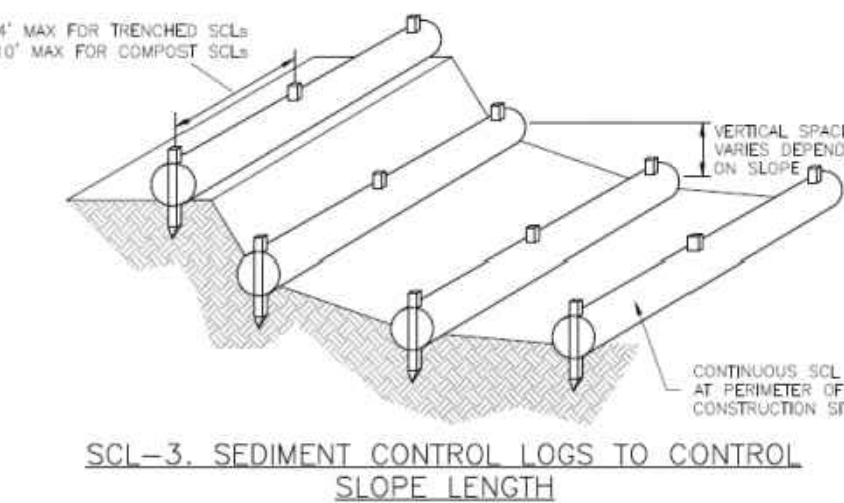
ENG:	DGW	
DRAWN:	TPT	
CHECKED:	DGW	
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SHEET NO.:	C-09	



SCL-1. TRENCHED SEDIMENT CONTROL LOG



SCL-2. COMPOST SEDIMENT CONTROL LOG (WEIGHTED)



SCL-3. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

**SEDIMENT CONTROL LOG INSTALLATION NOTES**

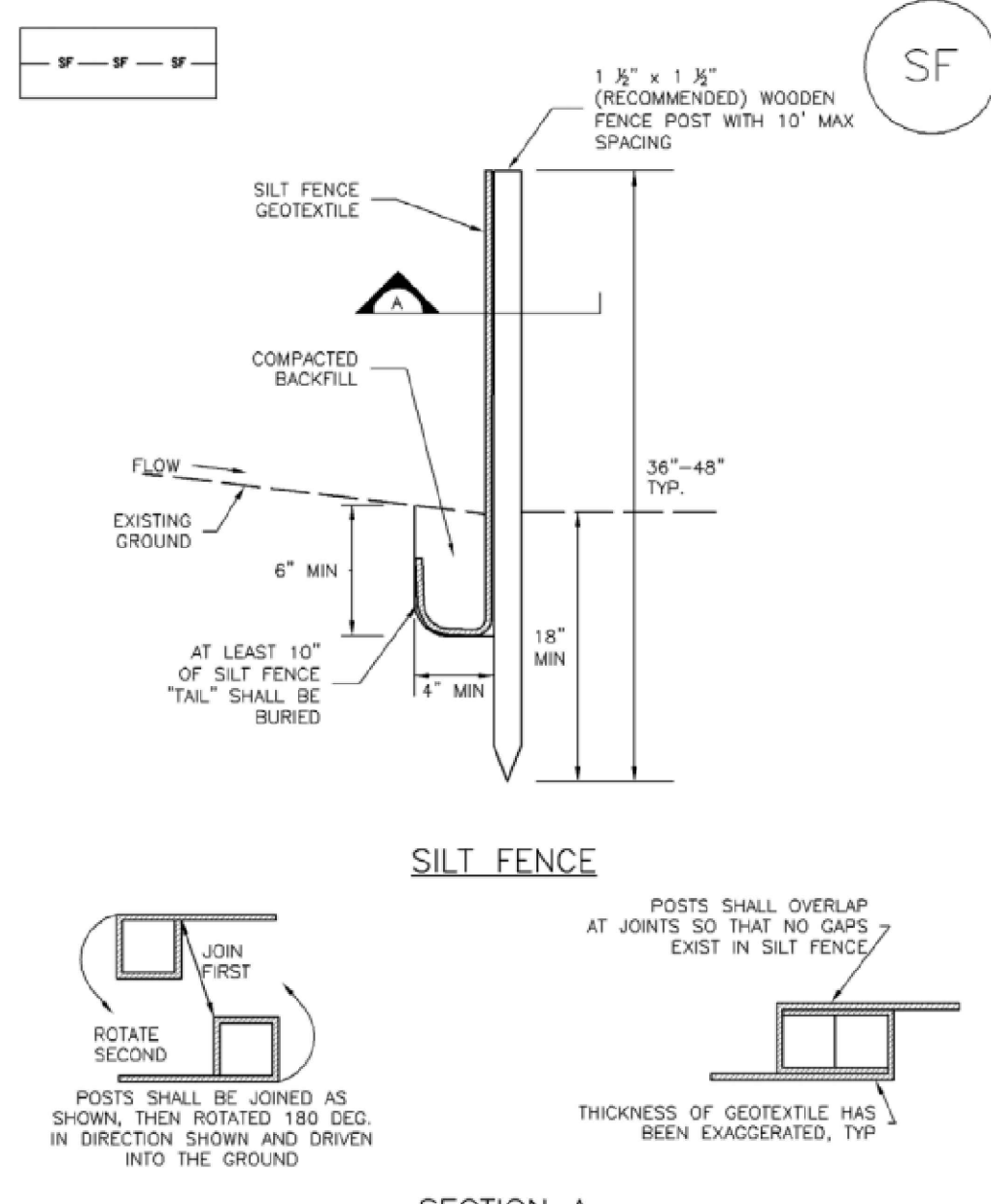
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES; HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
- IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
- THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
- FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.

**SEDIMENT CONTROL LOG 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 SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

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

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



SF-1. SILT FENCE

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER RUNDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTATION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- 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.
- 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 "J-HOOK." THE "J-HOOK" 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').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE 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 SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- 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.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

**CWA INSTALLATION NOTES**

- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE AREA SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- 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.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

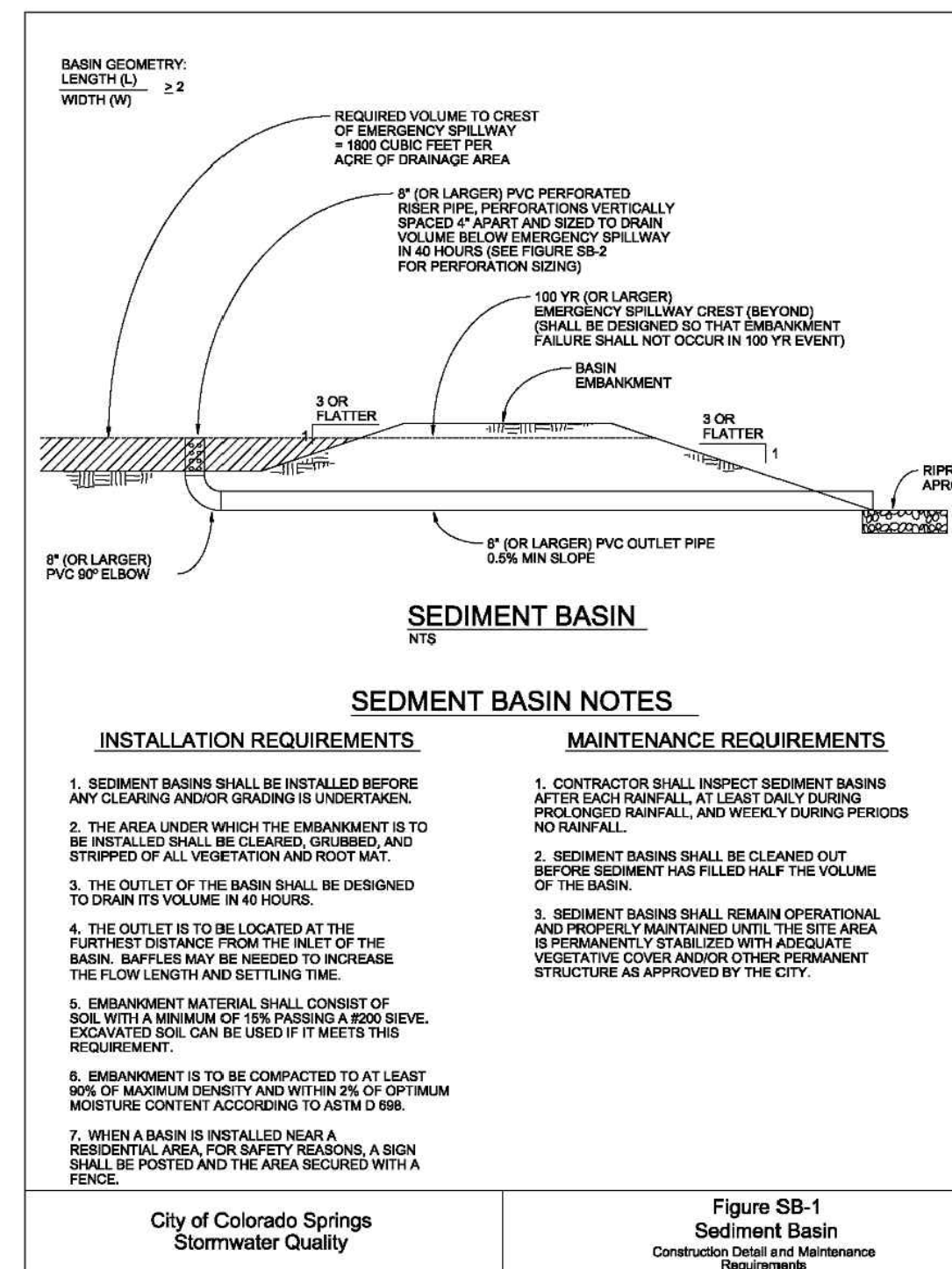
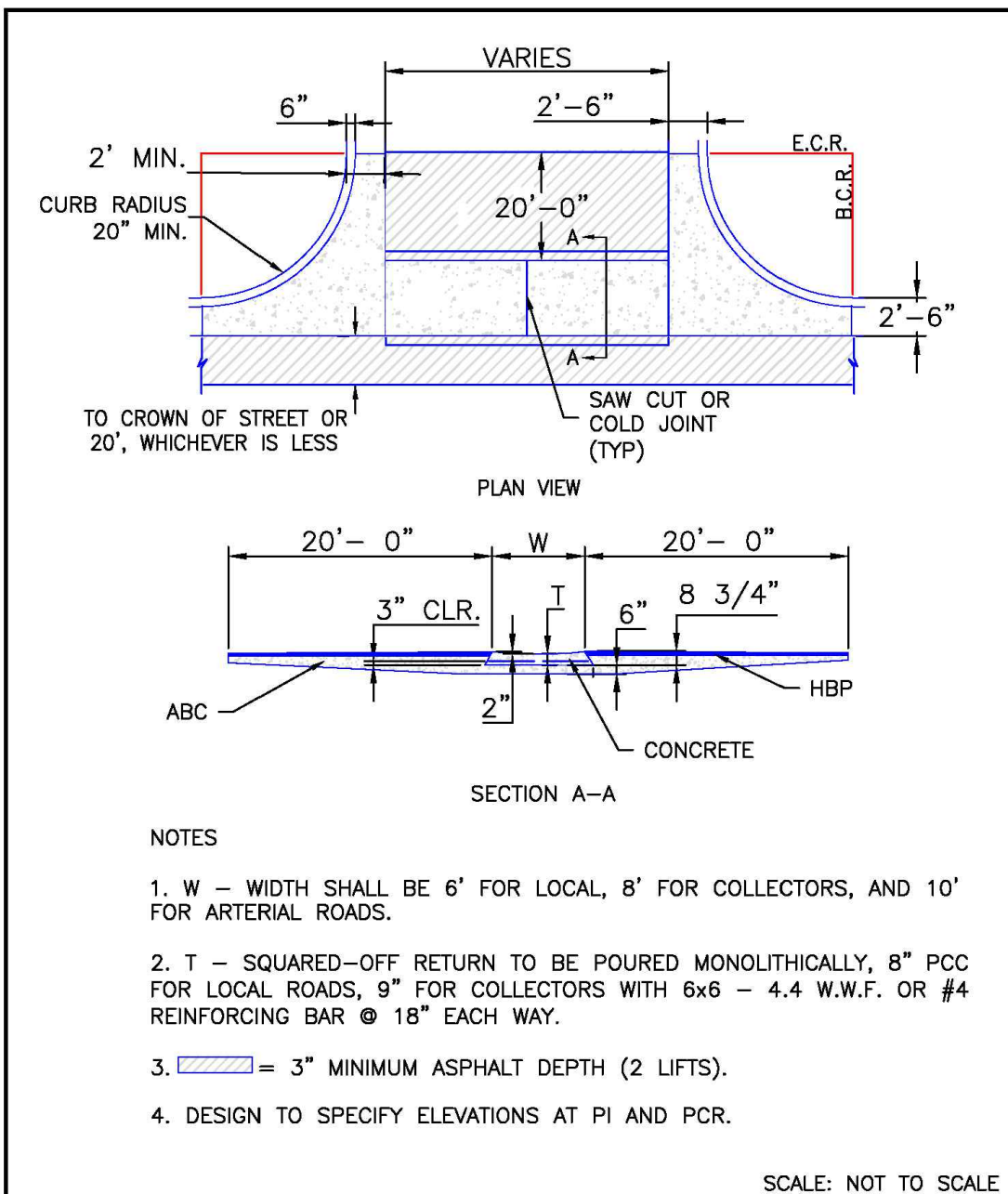
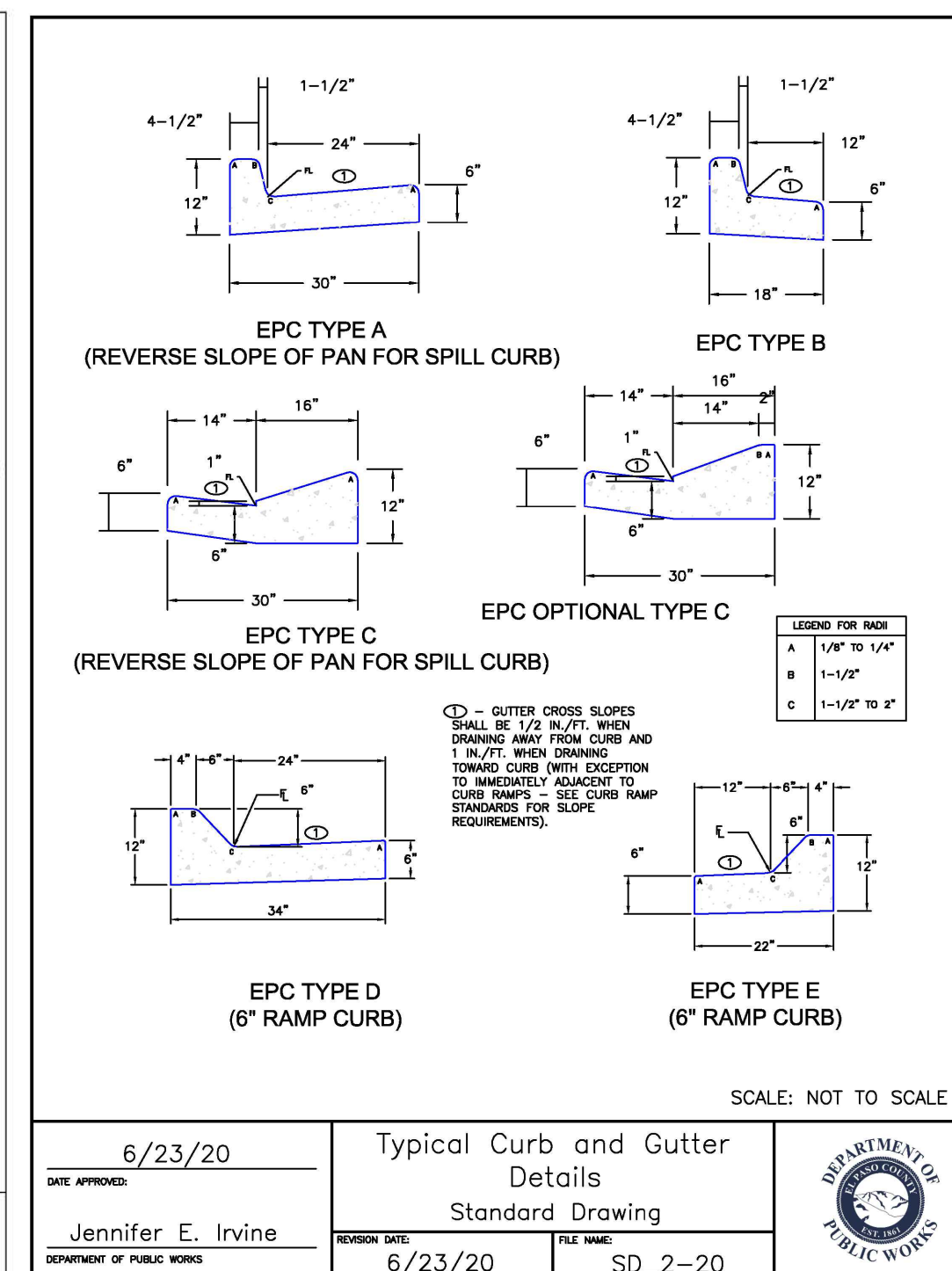


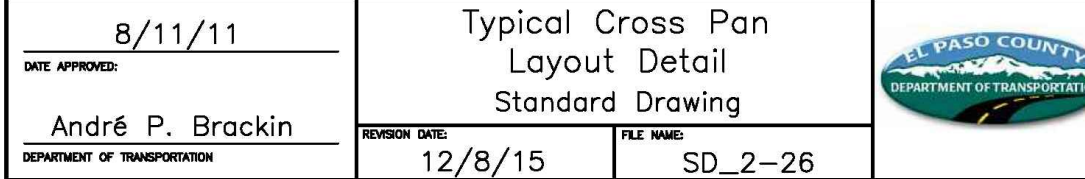
Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements



Typical Cross Pan Layout Detail Standard Drawing



Typical Curb and Gutter Details Standard Drawing



Grate Inlet for Common Areas (guidance) Standard Drawing

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 Sedimentation, Drainage, Stormwater, Hydrology, Geotechnical

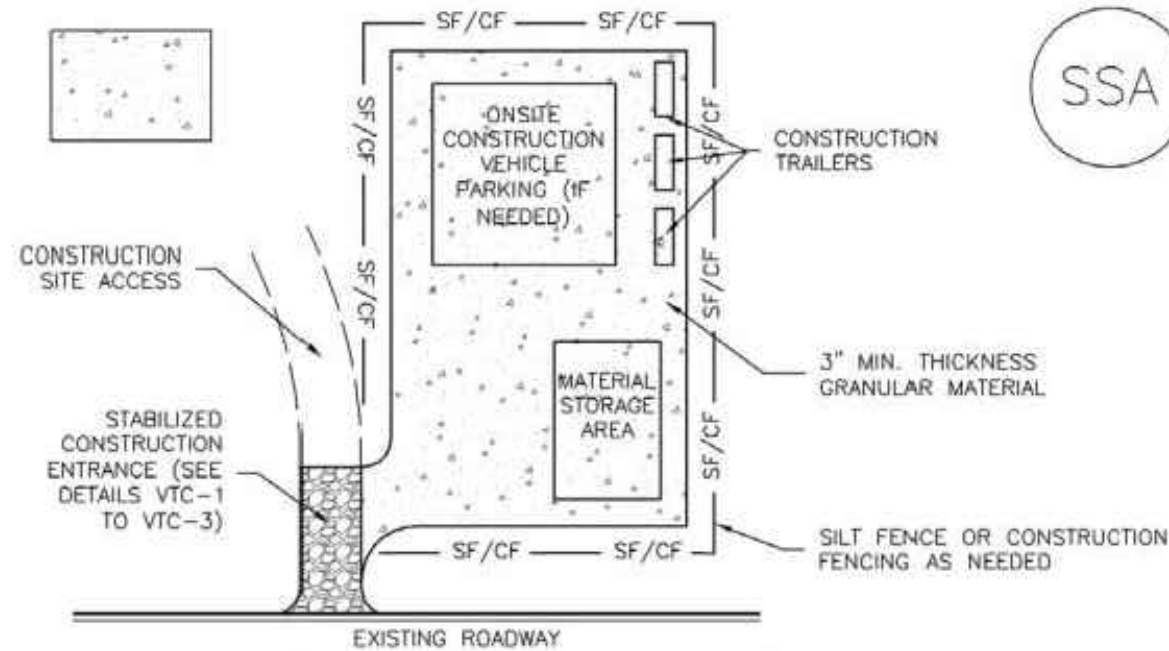
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**DEPARTMENT OF PUBLIC WORKS**

**NORTHCREST PEMB DEVELOPMENT**  
 2510 & 2522 CANADA DRIVE  
 COLORADO SPRINGS, COLORADO  
 LEISURE CONSTRUCTION

**EROSION CONTROL DETAILS 1**  
 DESIGN DEVELOPMENT  
 SHEET NAME  
 PROJECT STATUS  
 ENG: DOW  
 DRAWN: TPT  
 CHECKED: DOW  
 DATE: 12/07/2022  
 # REVISION DATE  
 180649  
 SHEET NO. C-10  
 OF 12

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SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

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

STABILIZED STAGING AREA MAINTENANCE NOTES

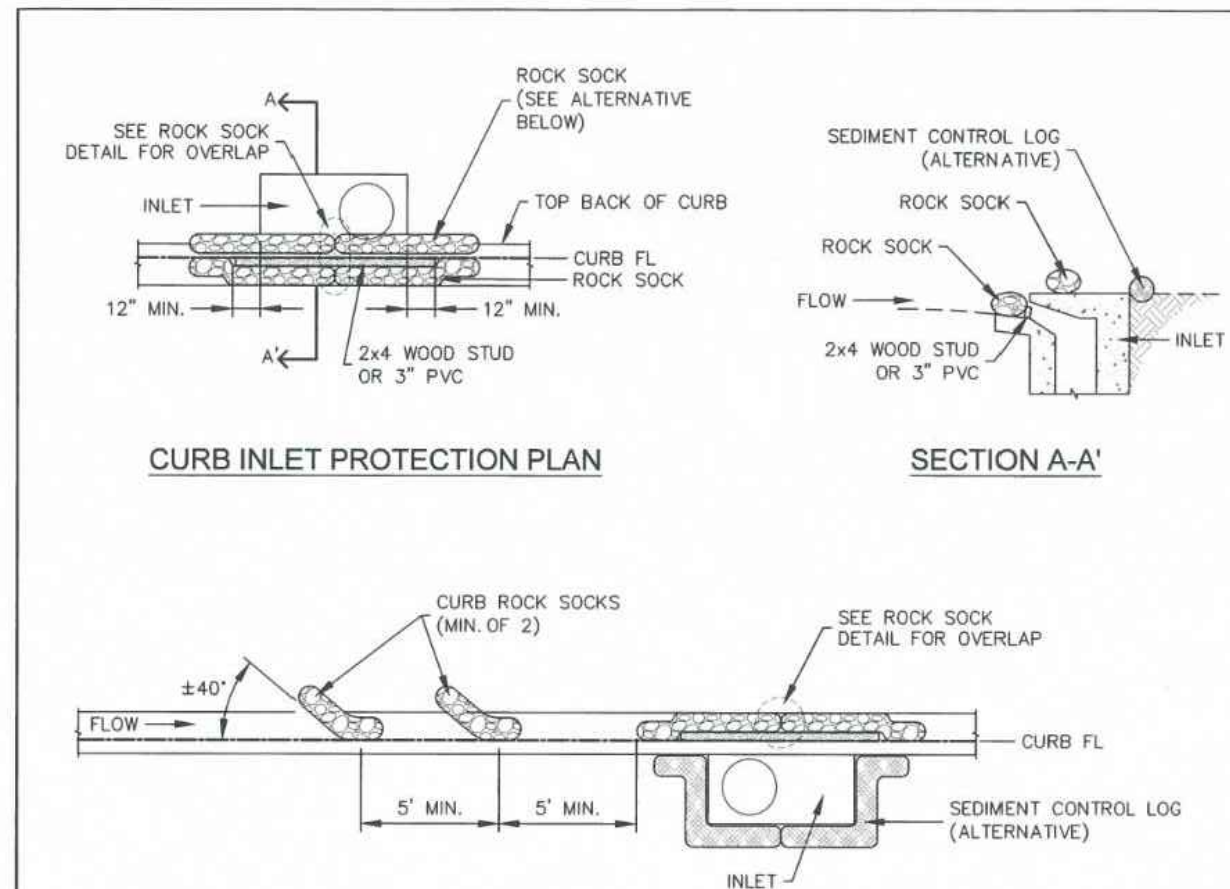
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS 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 SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- 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 MUNICIPALITIES 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 UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

INSTALLATION NOTES

- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
- ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
- AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADIENT INLETS.
- ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

MAINTENANCE NOTES

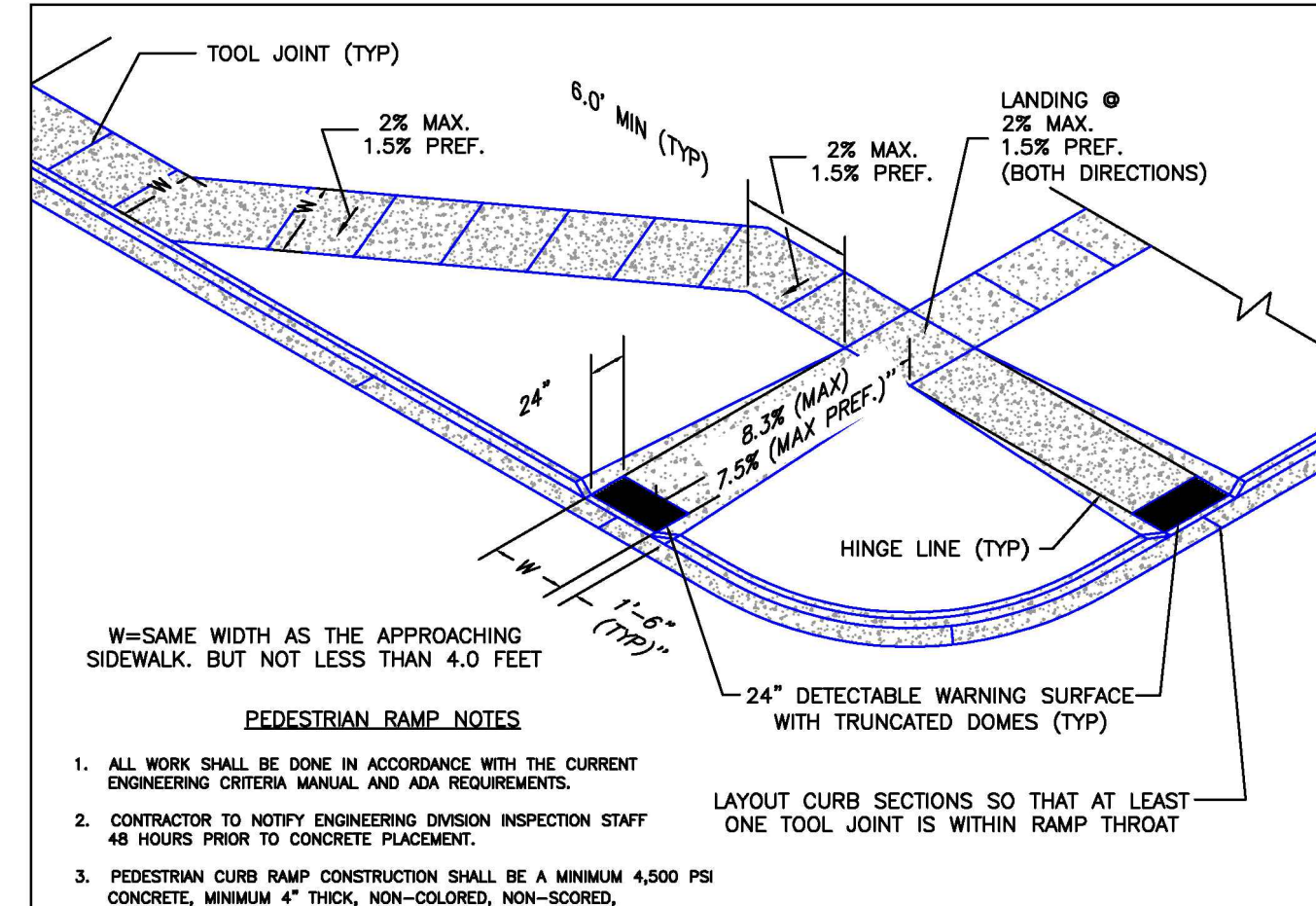
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-1

STORMWATER ENTERPRISE ON-GRADE INLET PROTECTION

APPROVED: [Signature]

ISSUES: 10/7/19 REVISED: 6/19/2020 DRAWING NO: 100-IP-1



PEDESTRIAN RAMP NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN CURB RAMP CONSTRUCTION SHALL BE A MINIMUM 4500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
- PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS. SEE EGM SECTION 8.3.6 FOR PEDESTRIAN PUSHBUTTON LOCATION REQUIREMENTS.
- DETECTABLE WARNING SURFACE SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING SURFACE SHALL BE PREFABRICATED, CAST IRON (PATINA NATURAL FINISH) AND IN ACCORDANCE WITH EGM CHAPTER 6 AND SD-2-42. THERMOPLASTIC TRUNCATED DOMES AND PAVERS WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING SURFACE SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- PEDESTRIAN CURB RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
- ALL PEDESTRIAN CURB RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
- DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED PEDESTRIAN CURB RAMP AREAS AND LANDINGS ARE PROHIBITED.
- THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A RAMP SHALL NOT EXCEED 5%.

GENERAL NOTES

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

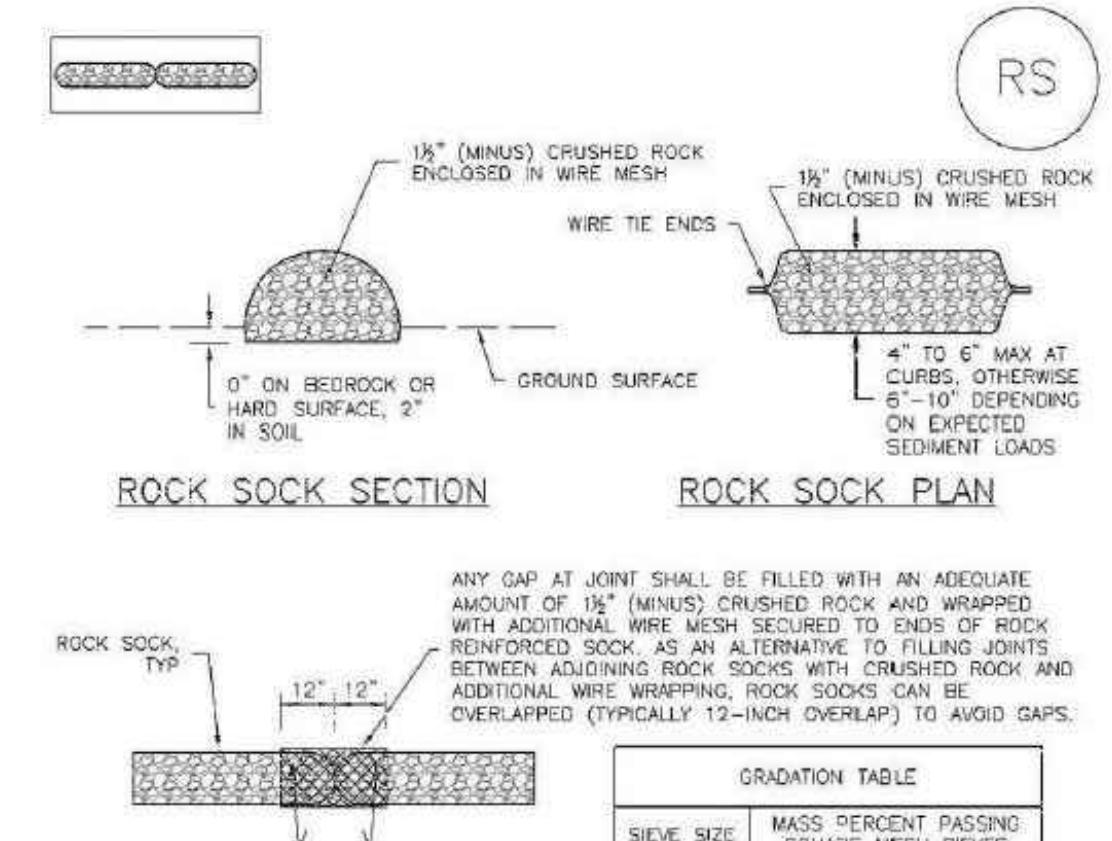
6/23/20 Pedestrian Curb Ramp Detail Standard Drawing

DATE APPROVED: Jennifer E. Irvine

DEPARTMENT OF PUBLIC WORKS

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

DEPARTMENT OF PUBLIC WORKS



ROCK SOCK SECTION and ROCK SOCK PLAN

ROCK SOCK JOINTING

GRADATION TABLE	
SIEVE SIZE	MASS PERCENT PASSING
2"	100
1 1/2"	90 - 100
1"	20 - 55
3/4"	0 - 15
3/8"	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M 443. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

ROCK SOCK INSTALLATION NOTES

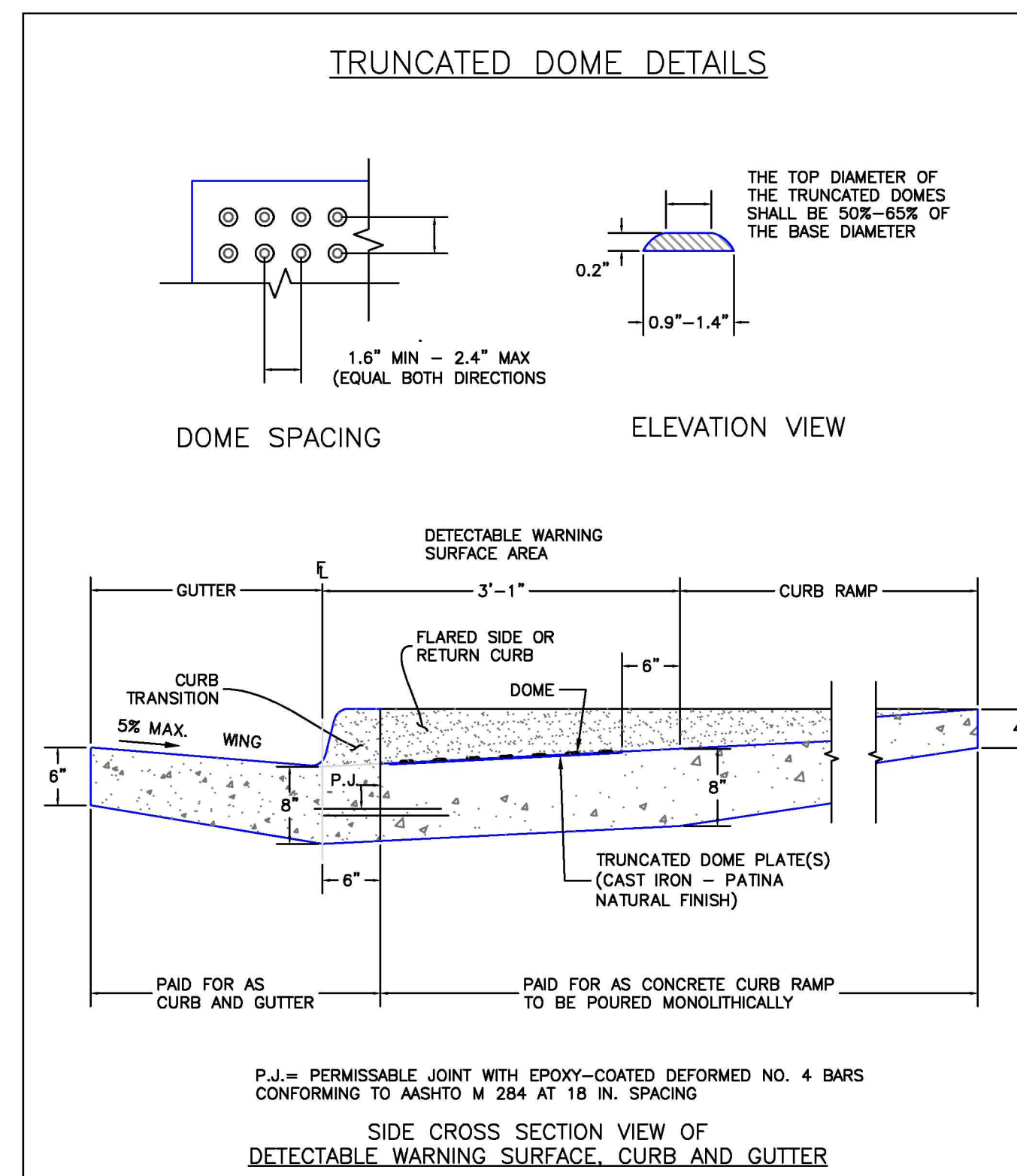
- SEE PLAN VIEW FOR LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1 1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2 INCH, RECOMMENDED MINIMUM ROLL WIDTH OF 48 INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS.
- ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- JEFFERSON COUNTY MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE IF SPECIFIED ON THE APPROVED PLANS.

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 1/2 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY JEFFERSON COUNTY.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY JEFFERSON COUNTY.

ROCK SOCK Detail 14

RS



6/23/20 Detectable Warning Surface Details Standard Drawing

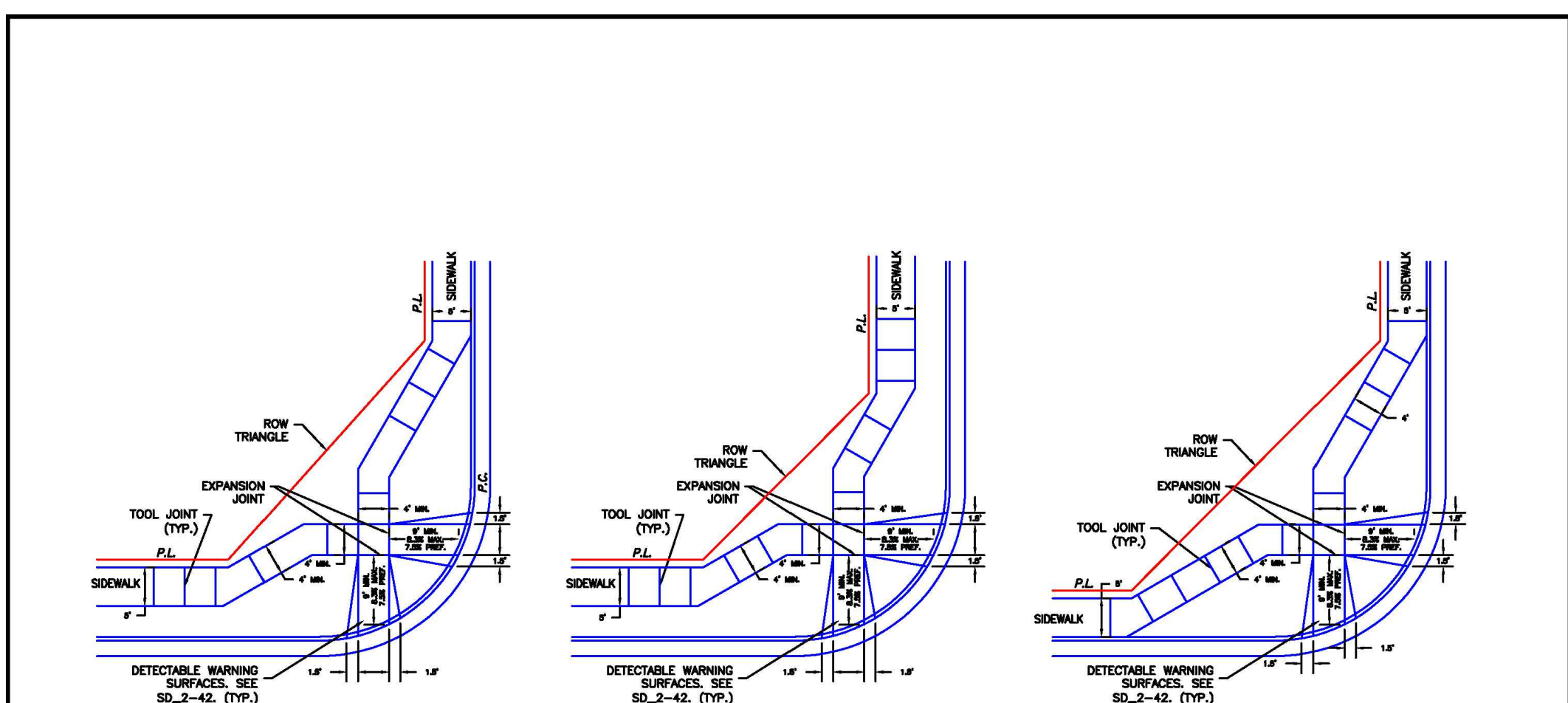
DATE APPROVED: Jennifer E. Irvine

DEPARTMENT OF PUBLIC WORKS

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

DEPARTMENT OF PUBLIC WORKS

NOTE: THE STABILIZED DRIVEWAY ACCESS/DRIVEWAY TO BE CONSTRUCTED TO VEHICLE TRACKING CONTROL STANDARDS WITH THE PROPOSED DRIVEWAY AGGREGATE BASE COURSE MATERIAL AND COMPACTION. A MINIMUM OF 30' INSIDE RADII ARE TO BE CONSTRUCTED FOR THE STABILIZED DRIVEWAY ACCESS/DRIVEWAY AND VEHICLE TRACKING FOR HEAVY VEHICLE INGRESS/EGRESS.



SCALE: NOT TO SCALE

6/23/20 Pedestrian Curb Ramp Detail Standard Drawing

DATE APPROVED: Jennifer E. Irvine

DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 6/23/20 FILE NAME: SD\_2-40

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ROCKY MOUNTAIN GROUP

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Geotechnical Materials Testing Civil Planning

Architectural Structural Forensics

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DAVID GERALD WATER

12/07/22

51909

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NORTHCREST PEMB DEVELOPMENT

2510 & 2522 CANADA DRIVE

COLORADO SPRINGS, COLORADO

LEISURE CONSTRUCTION

PROJECT STATUS: DESIGN DEVELOPMENT

SHEET NAME: EROSION CONTROL DETAILS 2

ENG: DOW

DRAWN: TPT

CHECKED: DGW

DATE: 12/07/2022

#	REVISION	DATE

JOB NO: 180649

SHEET NO: C-11 of 12

LAST SAVED: 12/7/2022 10:31:15 AM PATH: T:\Projects\Shi\_Spec\2020\H-Leisure\_Construction\180649\Civil\Drawings\From RMG\Sheet\SSA\SSA-1-Stabilized Staging Area\Project-Construction Details.dwg

**SEEDING & MULCHING**

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

**SOIL PREPARATION**

1. IN AREAS TO BE SEEDDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARRIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

**SEEDING**

1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEED WHENEVER POSSIBLE
3. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
  - SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING
  - BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL

**MULCHING**

1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
  - HAY OR STRAW MULCH
    - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
    - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
    - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
  - HYDRAULIC MULCHING
    - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
    - IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
    - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
  - EROSION CONTROL BLANKET
    - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

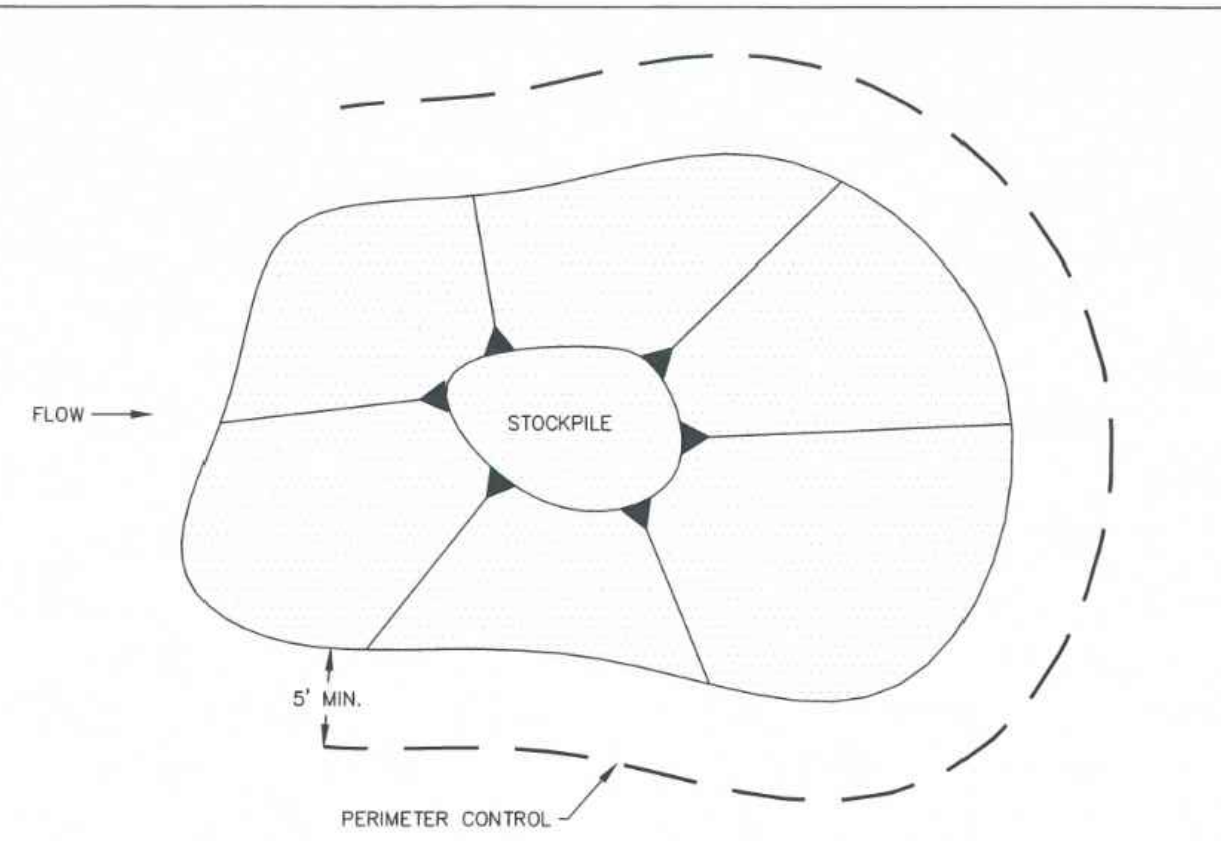
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**STORMWATER ENTERPRISE**

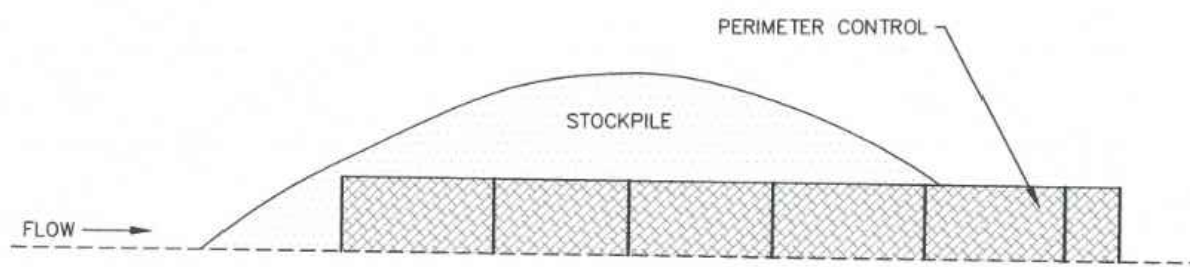
**SEEDING & MULCHING**

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ISSUED: 10/7/19    REVISED: 8/19/2020    DRAWING NO: 900-SM



**STOCKPILE PROTECTION PLAN**



**STOCKPILE PROTECTION ELEVATION**

**INSTALLATION NOTES**

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

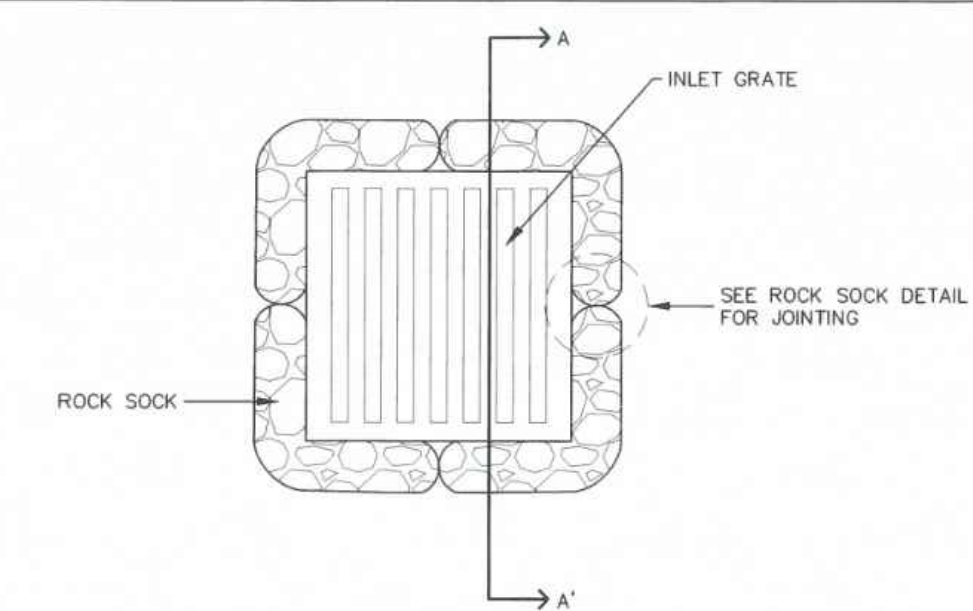
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**STORMWATER ENTERPRISE**

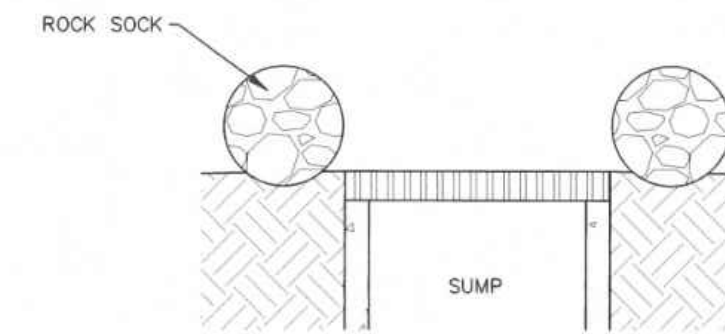
**STOCKPILE PROTECTION**

APPROVED: *[Signature]*

ISSUED: 10/7/19    REVISED: 8/19/2020    DRAWING NO: 900-SP



**ROCK SOCK SUMP INLET PROTECTION PLAN**



**SECTION A-A'**

**INSTALLATION NOTES**

1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.
3. CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

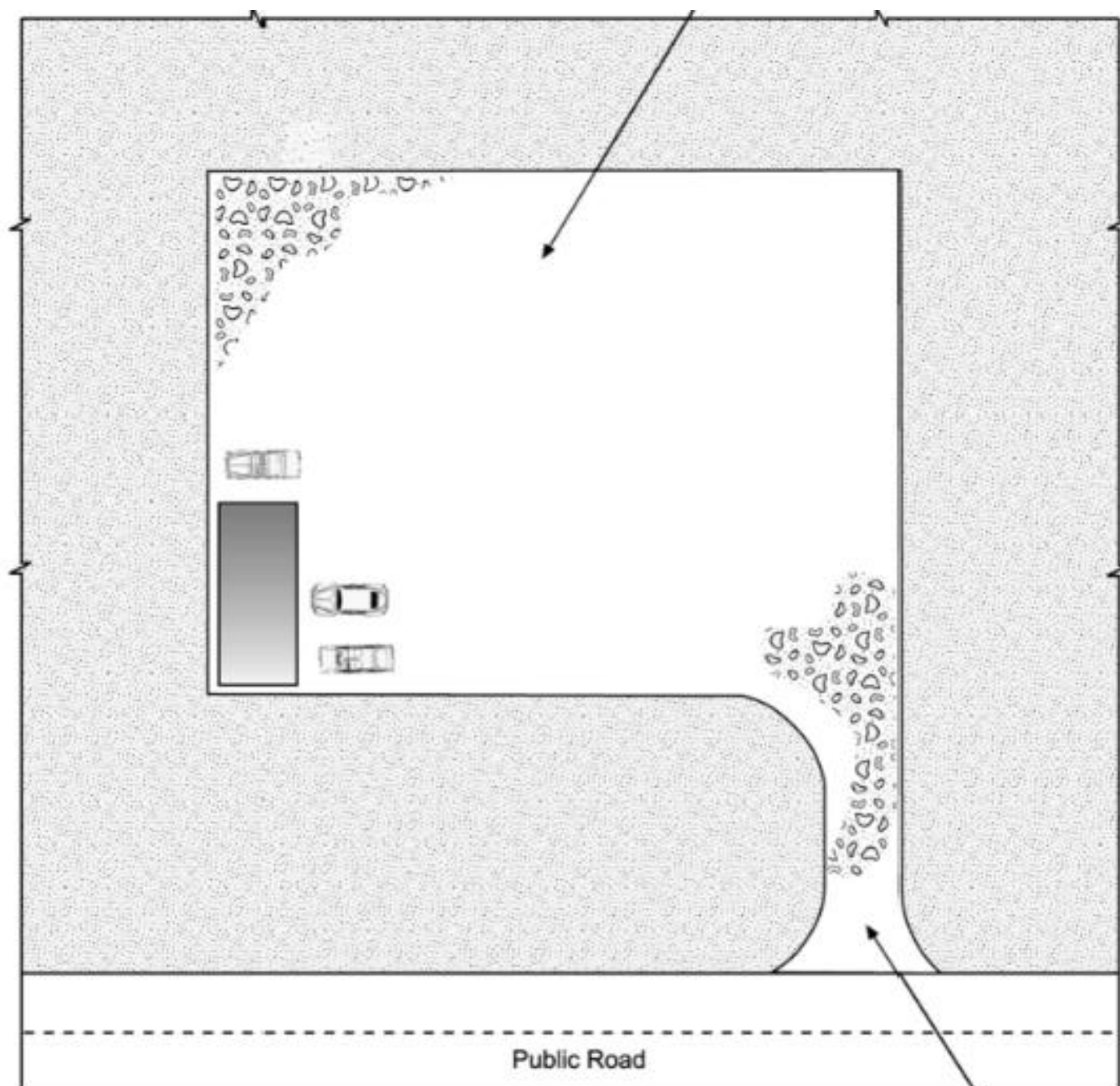
IP-2

**STORMWATER ENTERPRISE**

**SUMP INLET PROTECTION**

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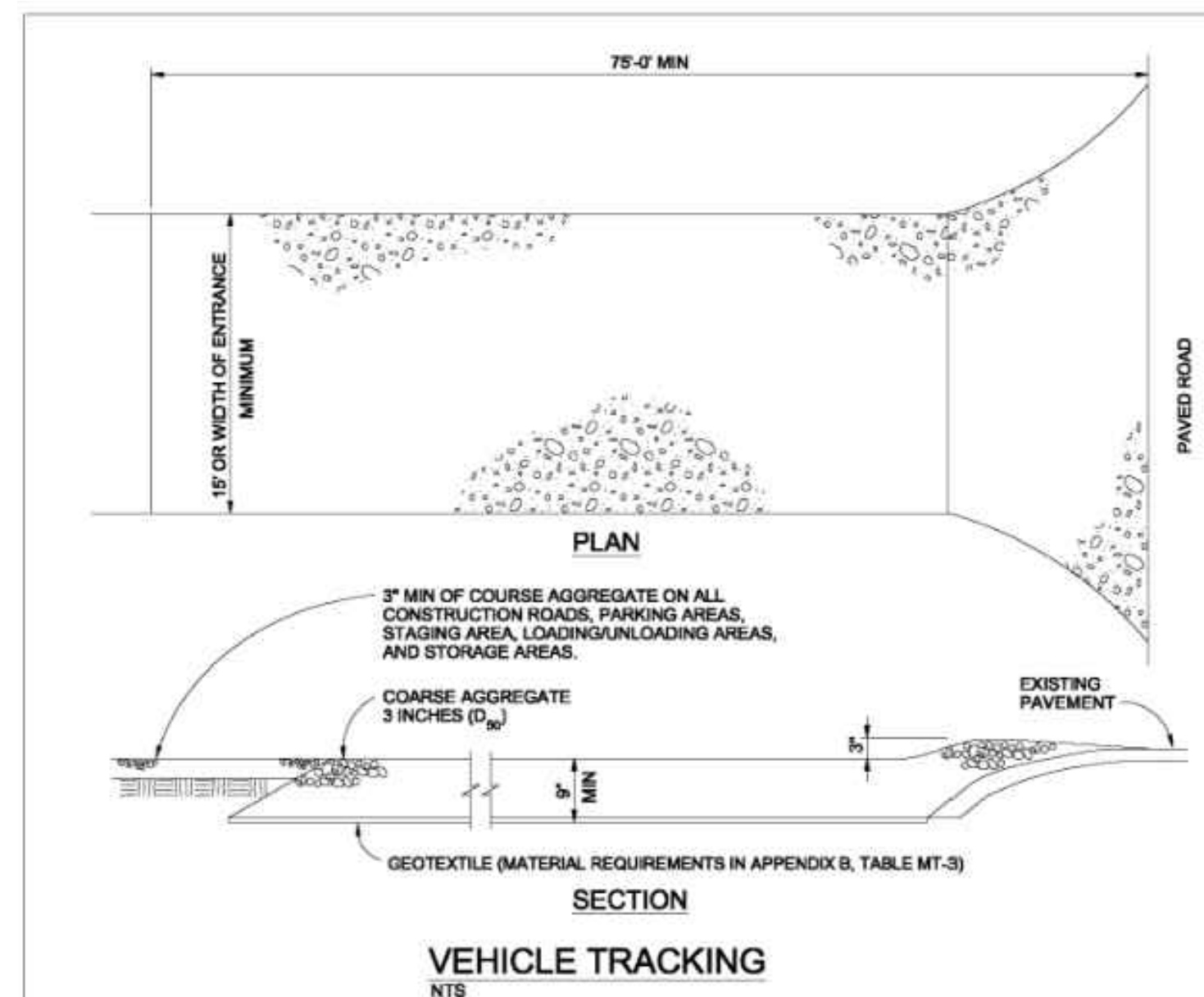


**Table VT-1**

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

**City of Colorado Springs  
Storm Water Quality**

**Figure VT-1  
Vehicle Tracking  
Application Examples**



**VEHICLE TRACKING NOTES**

**INSTALLATION REQUIREMENTS**

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

**City of Colorado Springs  
Stormwater Quality**

**Figure VT-2  
Vehicle Tracking  
Application Examples**

**ROCKY MOUNTAIN GROUP**

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**NORTHCREST PEMB DEVELOPMENT**  
2510 & 2522 CANADA DRIVE  
COLORADO SPRINGS, COLORADO  
LEISURE CONSTRUCTION

**EROSION CONTROL DETAILS 3**  
DESIGN DEVELOPMENT

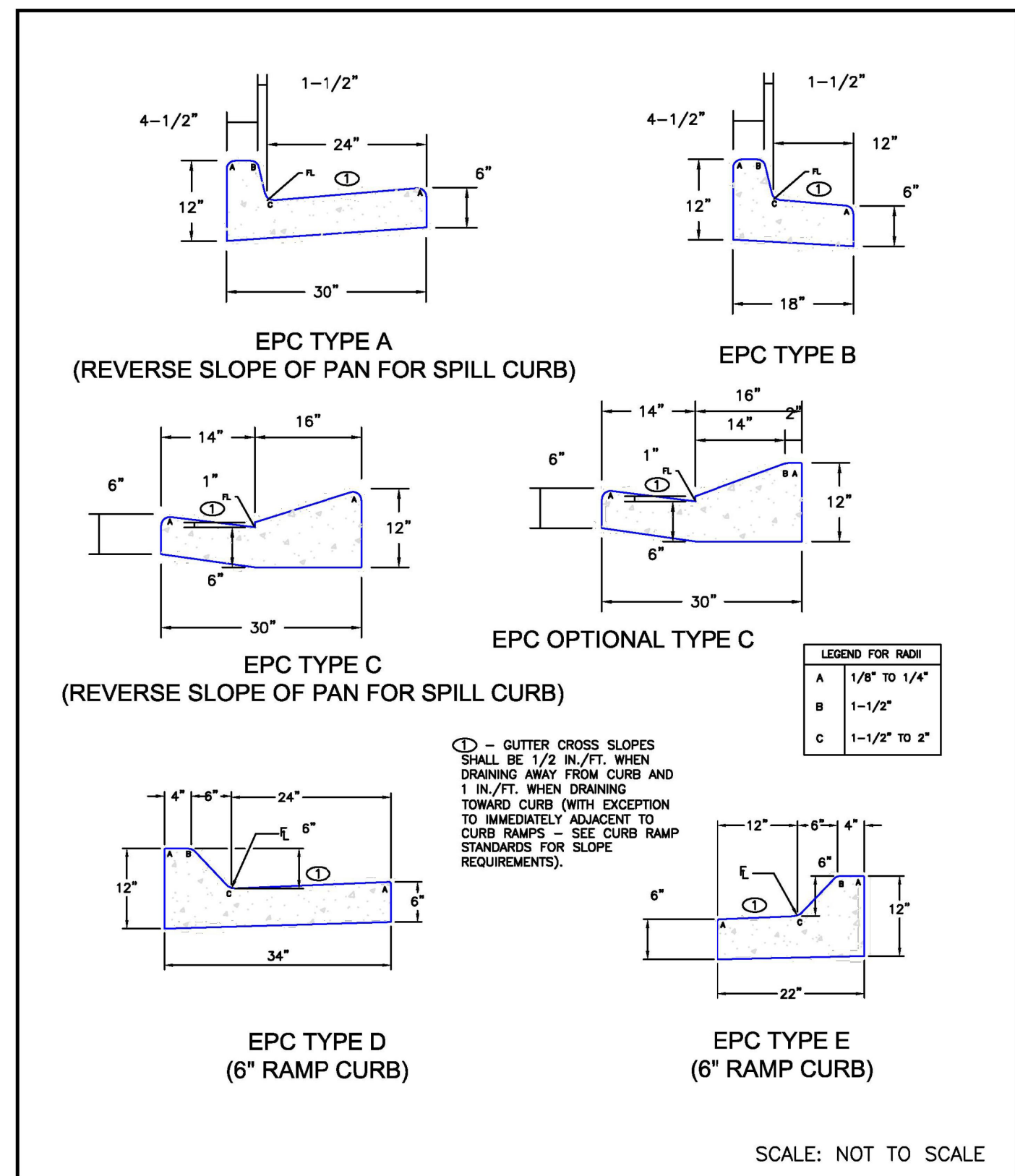
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PROJECT STATUS: DESIGN DEVELOPMENT

ENG: DOW  
DRAWN: TPT  
CHECKED: DGW

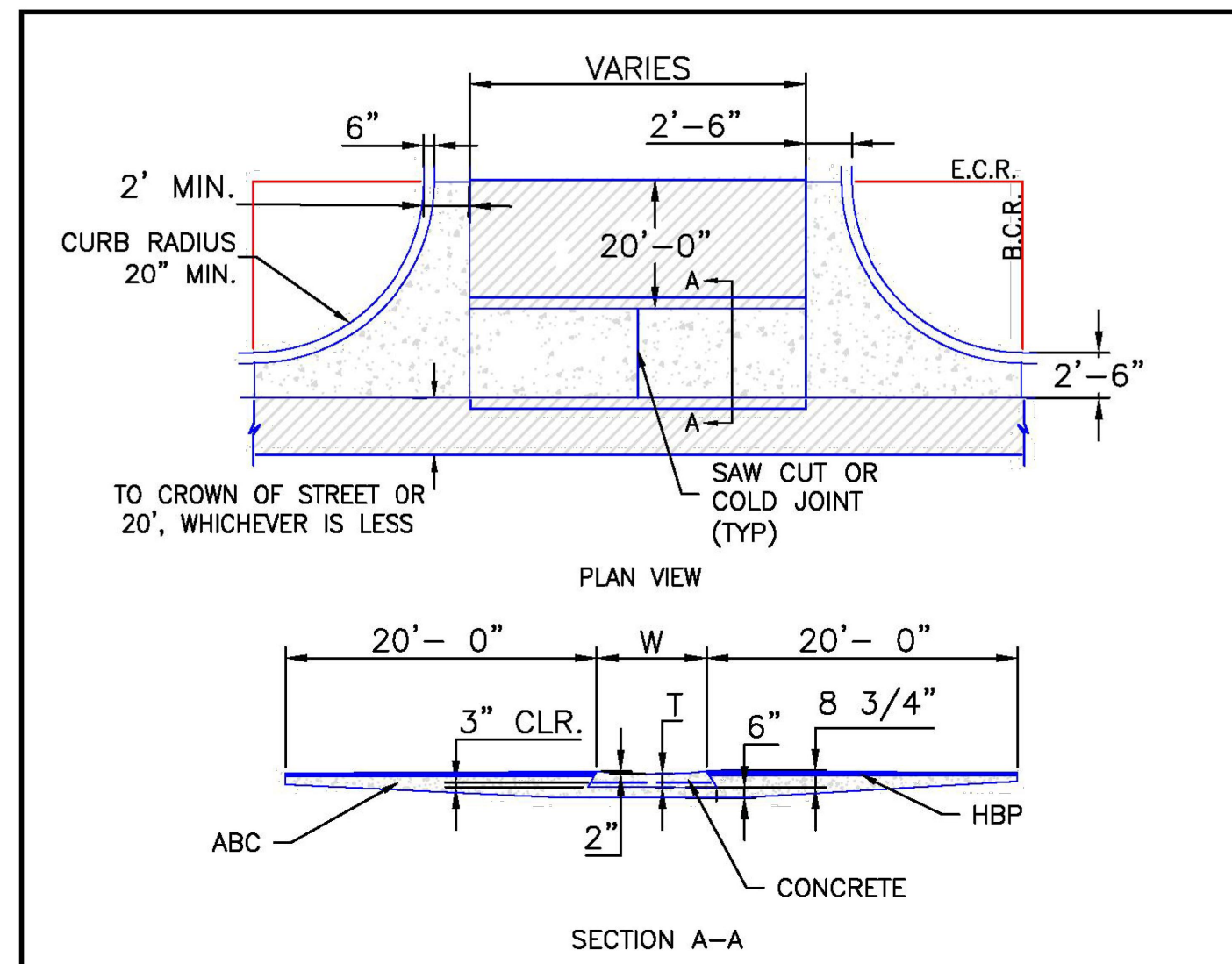
DATE: 12/07/2022

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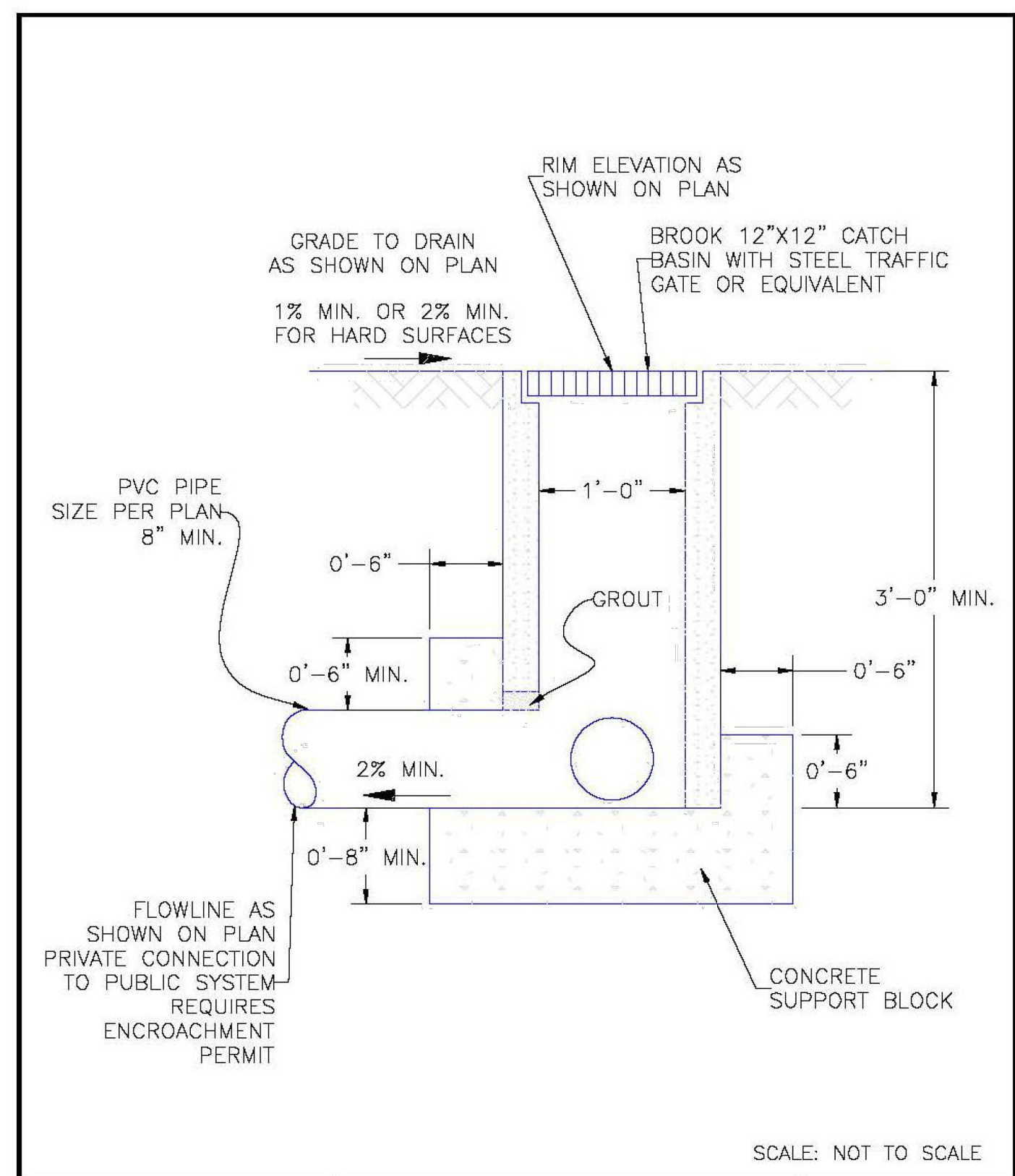
DATE APPROVED: 6/23/20	Typical Curb and Gutter Details Standard Drawing	
DEPARTMENT OF PUBLIC WORKS Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-20	



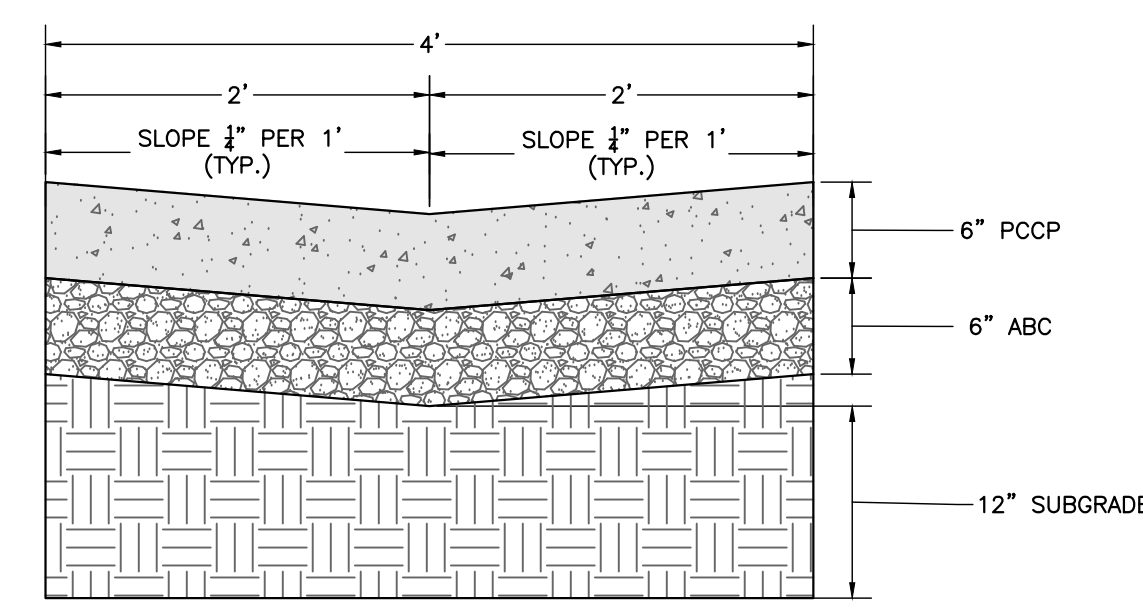
NOTES

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

DATE APPROVED: 8/11/11	Typical Cross Pan Layout Detail Standard Drawing	
DEPARTMENT OF TRANSPORTATION André P. Brackin	REVISION DATE: 12/8/15 FILE NAME: SD_2-26	



DATE APPROVED: 8/11/11	Grate Inlet for Common Areas (guidance) Standard Drawing	
DEPARTMENT OF TRANSPORTATION André P. Brackin	REVISION DATE: 11/10/04 FILE NAME: SD_3-8	



CONCRETE DRAINAGE PAN  
NOT TO SCALE

ROCKY MOUNTAIN GROUP

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NORTHCREST PEMB DEVELOPMENT

2510 & 2522 CANADA DRIVE

COLORADO SPRINGS, COLORADO

LEISURE CONSTRUCTION

EROSION CONTROL DETAILS 4

DESIGN DEVELOPMENT

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DATE:	12/07/2022	
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JOB NO.:	180649	
SHEET NO.:	C-13	

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