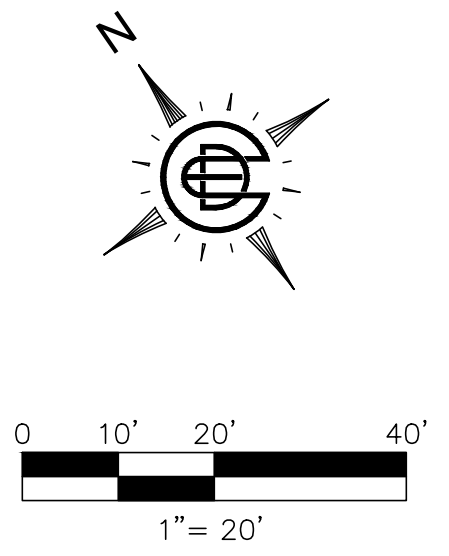


**LEGEND**

- INSTALL SILT FENCE PER DETAIL
- LIMIT OF DISTURBED AREA
- INSTALL INLET PROTECTION
- INSTALL VEHICLE TRACKING CONTROL (SEE SITE NOTE 2).
- OVERLAND FLOW DIRECTION



- SITE NOTES**
- THERE WILL BE NO STOCKPILES ON SITE.
  - ALTERNATE CONTROL DEVICES (MATS) TO THE RIP-RAP SHOWN ON CITY DETAILS IS ACCEPTABLE UPON APPROVAL OF CITY INSPECTOR.

**CERTIFICATION:**

THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) REPORT INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA MANUAL, AS AMENDED.

DESIGNER'S SEAL & SIGNATURE

SLP JOP II, LLC

AUTHORIZED SIGNATURE

**NOTE**

THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE CITY OF LONE TREE FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE CITY OF LONE TREE GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEE(S) DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED GESC PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEE(S) UNTIL SUCH TIME AS THE GESC PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.

CITY OF LONE TREE

DATE

THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR GRADING IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

- EROSION CONTROL GENERAL NOTES**
- NO LAND DISTURBANCE SHALL BEGIN UNTIL ALL APPLICABLE PERMITS HAVE BEEN ISSUED BY THE GOVERNING AUTHORITIES.
  - THE CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND/OR LOCAL ORDINANCES.
  - ALL CONTRACTORS SHALL BE AWARE OF AND ADHERE TO THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT, AND/OR ANY APPLICABLE STATE GENERAL PERMITS.
  - THIS EROSION CONTROL PLAN DOES NOT CONSTITUTE A SWPPP. REFER TO THE SWPPP DOCUMENT OR SITE NOTICE FOR COMPLETE REQUIREMENTS.
  - ALL POTENTIAL POLLUTANTS SHALL BE STORED, HANDLED, ETC. IN A MANNER THAT PREVENTS DISCHARGE FROM THE SITE THROUGH STORM WATER RUNOFF.
  - OIL, GREASE, CHEMICAL, AND PETROLEUM PRODUCTS SHALL BE IMMEDIATELY CLEANED IF SPILLED OR LEAKING.
  - DUST CONTROL SHALL BE PREVENTED WITH REGULAR WATERING. OIL, PETROLEUM, OR OTHER CHEMICALS ARE PROHIBITED FOR DUST CONTROL.
  - ANY DISTURBED AREA WITH NO CONSTRUCTION ACTIVITY FOR FOURTEEN CALENDAR DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
  - PERMANENT STABILIZATION OF ALL NON-PAVED AREAS SHALL BE COMPLETED PER THE LANDSCAPE PLAN. ANY DISTURBED AREA OUTSIDE THE LIMITS OF THE

- LANDSCAPE PLAN SHALL BE HYDROMULCHED WITH A LOCALLY AND SEASONALLY APPROPRIATE GRASS MIX AND WATERED WITH TEMPORARY ABOVE GROUND IRRIGATION UNTIL A THREE-INCH STAND OF GRASS IS ESTABLISHED.
- ALL VEHICLES AND EQUIPMENT SHALL BE CLEANED AT THE STABILIZED CONSTRUCTION ENTRANCE/EXIT BEFORE LEAVING THE SITE. ALL WASH WATER SHALL BE TREATED OR COLLECTED IN A MANNER TO AVOID POLLUTANTS FROM CONTACTING STORMWATER RUNOFF.
- ANY SOILS AND/OR CONSTRUCTION MATERIALS TRACKED, SPILLED, AND/OR WASHED ONTO ADJACENT PROPERTIES OR RIGHTS-OF-WAY SHALL BE IMMEDIATELY REMOVED AND CLEANED.
- ALL SILT, MATERIAL, AND/OR CONSTRUCTION DEBRIS ACCUMULATED ON OR IN ANY EROSION CONTROL OR STORM WATER CONVEYANCE DEVICE (SILT FENCE, TEMPORARY OR PERMANENT POND, STORM DRAIN INLETS AND PIPES, ETC.) WHICH IMPAIRS THE EFFECTIVENESS OF SUCH DEVICE SHALL BE REMOVED IMMEDIATELY UPON INSPECTION NOTING SUCH IMPAIRMENT.
- A SILT FENCE SHALL BE PLACED COMPLETELY AROUND ANY STOCKPILE PLACED ON SITE.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT AND SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE. REFER TO THE SWPPP FOR REQUIREMENTS AND/OR DOCUMENTATION THAT MAY BE REQUIRED.
- ALL CONSTRUCTION RELATED EROSION CONTROL DEVICES (INCLUDING TEMPORARY ABOVE GROUND IRRIGATION SYSTEMS) SHALL BE REMOVED AND

- DISPOSED OF UPON COMPLETE STABILIZATION OF THE DISTURBED AREA.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT AND/OR REPAIR ANY IMPACT TO ADJACENT PROPERTY AND/OR RIGHT-OF-WAY NOT SHOWN ON THIS PLAN AT THEIR EXPENSE.
- REFER TO THE SWPPP FOR REQUIREMENTS TO MODIFY THIS PLAN TO SHOW FIELD LOCATION OF MATERIAL STORAGE, CONCRETE WASHOUT, EQUIPMENT STAGING, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL REQUIRED INSPECTIONS AND DOCUMENTATION PERFORMED AS DEFINED IN THE SWPPP.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE STORMWATER POLLUTION PREVENTION REQUIREMENTS FOR ALL REMOTE SITES BEING USED FOR SOIL IMPORT, SOIL EXPORT, AND/OR DISPOSAL.
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
- ALL ADJACENT AREAS SHALL BE CLEANED OF DIRT AND DEBRIS IMMEDIATELY USING DRY METHODS ONLY.
- ALL PORTABLE TOILETS SHALL BE PLACED ON A PERVIOUS SURFACE AND STAKED DOWN ON ALL FOUR SIDES.

**FEMA FLOOD NOTE:**

THE DISTURBED AREA SHOWN ON THIS PLAN LIES ENTIRELY WITHIN ZONE X, WHICH LIE OUTSIDE THE 500 YEAR FLOODPLAIN AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM'S FLOOD INSURANCE RATE MAP FOR DOUGLAS COUNTY, COLORADO, MAP NUMBER 08035C0042G, EFFECTIVE MARCH 16, 2016, AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

- BENCHMARKS**
- MAG NAIL (TAG 27609) ON EAST CURB OF S. YOSEMITE STREET APPROXIMATELY 208 FEET NORTHEAST OF NORTHEAST CORNER OF SUBJECT PROPERTY.  
ELEVATION: 5787.87
  - MAG NAIL (TAG 31158) IN CONCRETE SIDEWALK AT SOUTHEAST CORNER OF SUBJECT PROPERTY.  
ELEVATION: 5802.07



**INITIAL GESC PLAN**

**JACK'S RESTAURANT**

**1.20 ACRES - LOT 1 PARK MEADOWS FILING 2**

**CITY OF LONE TREE, COLORADO**

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PRELIMINARY FOR REVIEW ONLY

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P.E. No.: 107767  
DATE: 03/15/24

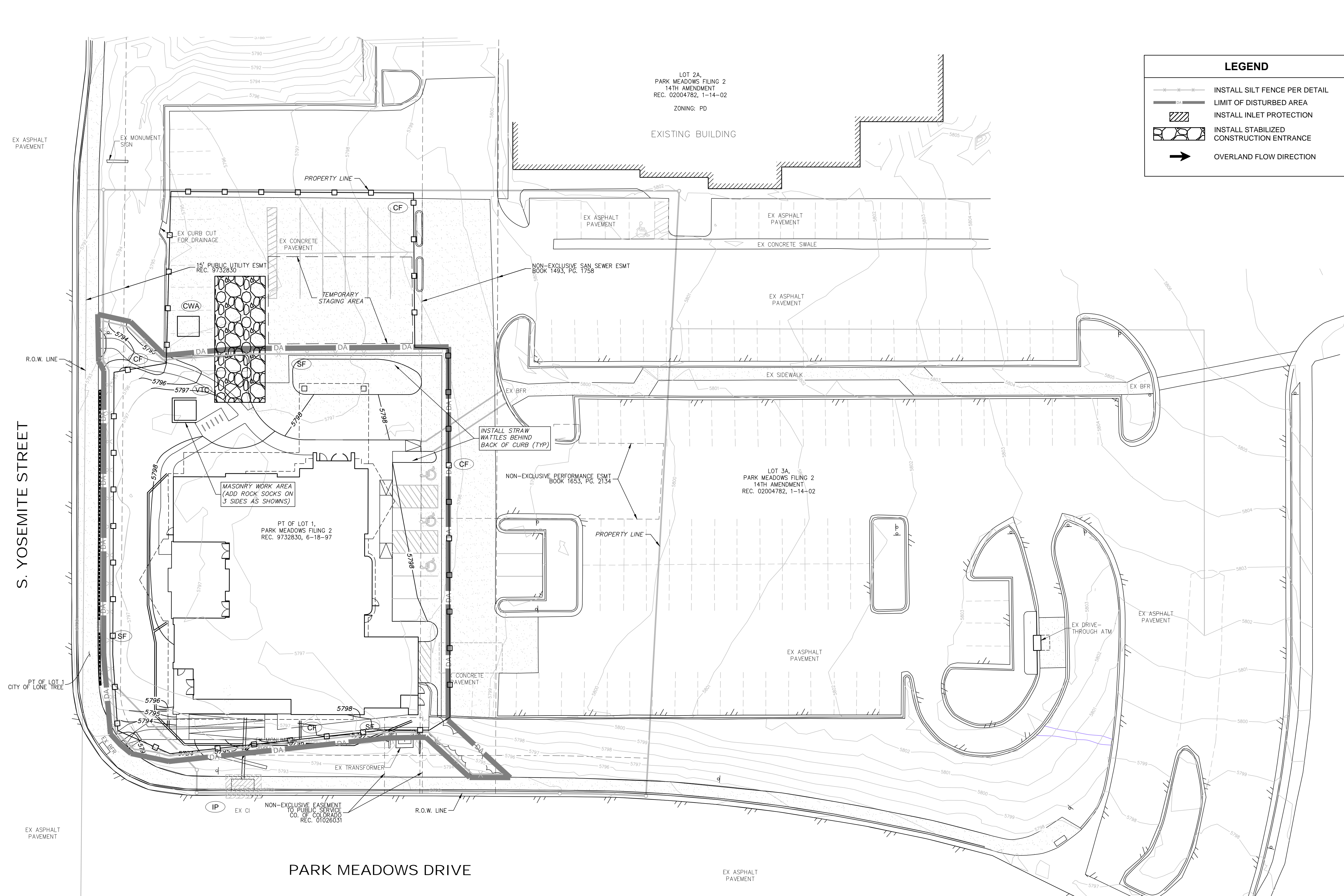
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ENGINEER

**DEC**

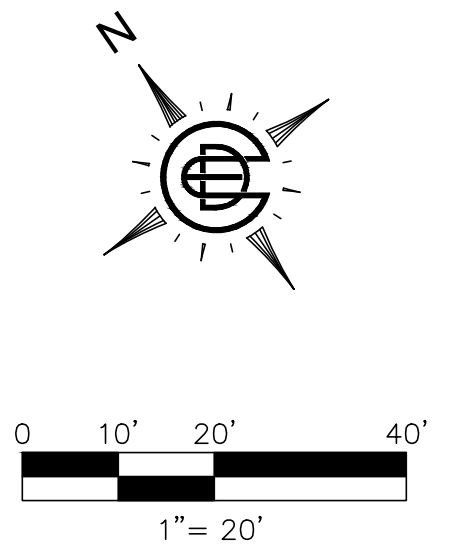
5300 TOWN & COUNTRY BOULEVARD, SUITE 150  
FRISCO, TEXAS 75034  
469-850-0060  
dec-en.com

ISSUE DATE	DEC FILE NO.
03/15/24	105616
CITY FILE NO.	SHEET NO.
-	C4.1



**LEGEND**

- INSTALL SILT FENCE PER DETAIL
- LIMIT OF DISTURBED AREA
- INSTALL INLET PROTECTION
- INSTALL STABILIZED CONSTRUCTION ENTRANCE
- OVERLAND FLOW DIRECTION



**CERTIFICATION:**

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DESIGNER'S SEAL & SIGNATURE

SLP JOP II, LLC

AUTHORIZED SIGNATURE

NOTE: THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE CITY OF LONE TREE FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE CITY OF LONE TREE GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEE(S) DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED GESC PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEE(S) UNTIL SUCH TIME AS THE GESC PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.

CITY OF LONE TREE

DATE

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ENGINEERING DIVISION ACCEPTANCE BLOCK

- EROSION CONTROL GENERAL NOTES**
- SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
  - SHADED BMPs INSTALLED IN THE INITIAL STAGE SHALL BE LEFT IN PLACE IN THE INTERIM STAGE.
  - ALL INTERIM BMPs, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED PRIOR TO ISSUANCE OF ANY CURB AND GUTTER PERMITS.
  - SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION.
  - ALL ADJACENT AREAS SHALL BE CLEANED OF DIRT AND DEBRIS IMMEDIATELY USING DRY METHODS ONLY.
  - ALL PORTABLE TOILETS SHALL BE PLACED ON A PERVIOUS SURFACE AND STAKED DOWN ON ALL FOUR SIDES.

**ACREAGE SUMMARY**

TOTAL DISTURBED AREA: 0.49 ACRES

CUT/FILL VOLUME: NEGLIGIBLE

**FEMA FLOOD NOTE:**

THE DISTURBED AREA SHOWN ON THIS PLAN LIES ENTIRELY WITHIN ZONE X, WHICH LIE OUTSIDE THE 500 YEAR FLOODPLAIN AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM'S FLOOD INSURANCE RATE MAP FOR DOUGLAS COUNTY, COLORADO, MAP NUMBER 08035C0042G, EFFECTIVE MARCH 16, 2016, AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

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ELEVATION: 5787.87
  - MAG NAIL (TAG 31158) IN CONCRETE SIDEWALK AT SOUTHEAST CORNER OF SUBJECT PROPERTY.  
ELEVATION: 5802.07

**INTERIM GESC PLAN**

**JACK'S RESTAURANT**

**1.20 ACRES - LOT 1 PARK MEADOWS FILING 2**

**CITY OF LONE TREE, COLORADO**

ENGINEER

**DEC**

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FRISCO, TEXAS 75034  
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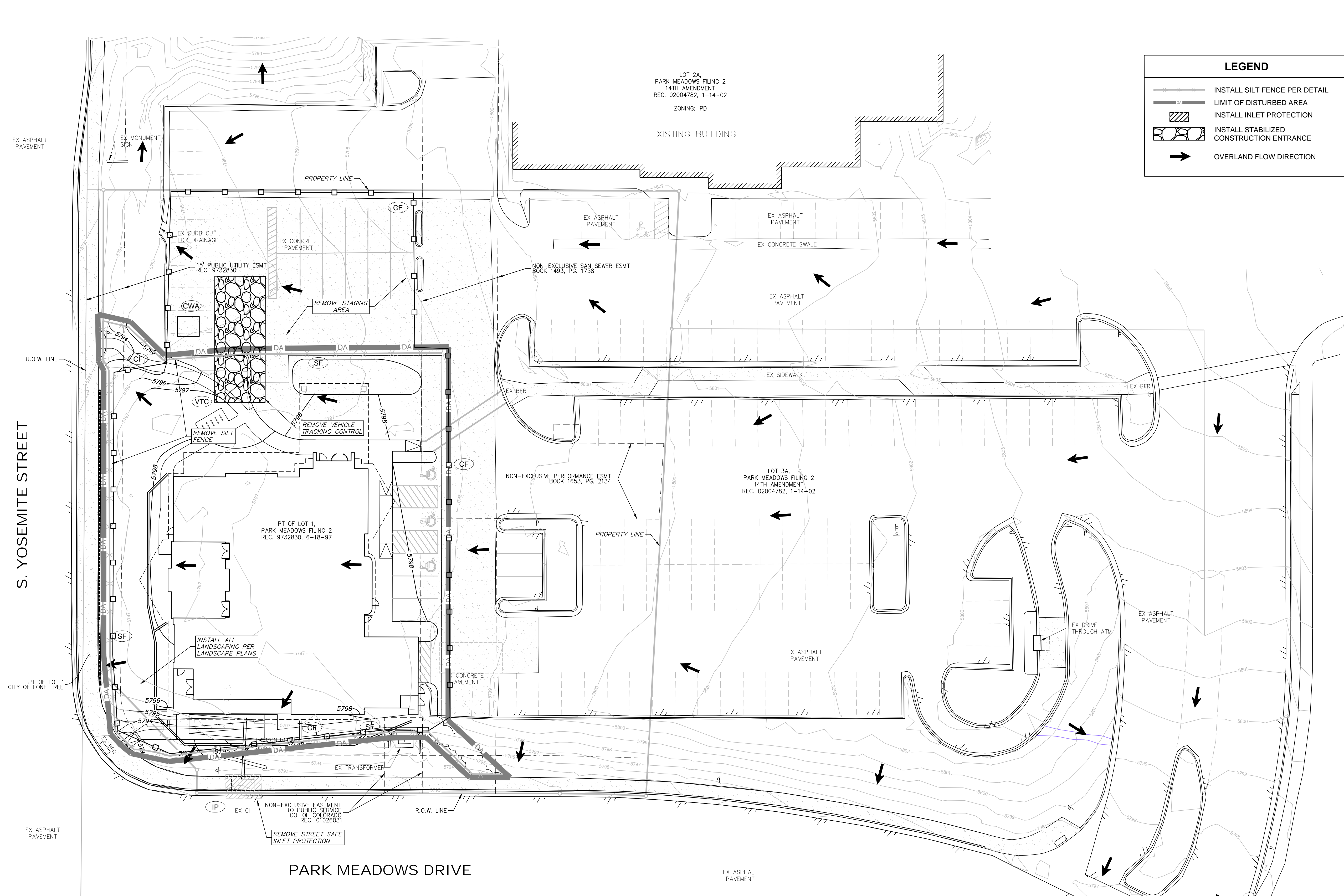
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P.E. NO.: 107767  
DATE: 03/15/24

ISSUE DATE: 03/15/24  
DEC FILE NO.: 105616  
CITY FILE NO.: -  
SHEET NO.: C4.2



P:\08 FILES\105616 - Jack's Restaurant\105616 EROSION CONTROL.dwg, INTERNAL, 3/16/2024, 12:35:36 AM, D:\dwg\11



**LEGEND**

- INSTALL SILT FENCE PER DETAIL
- LIMIT OF DISTURBED AREA
- INSTALL INLET PROTECTION
- INSTALL STABILIZED CONSTRUCTION ENTRANCE
- OVERLAND FLOW DIRECTION

0 10' 20' 40'

1" = 20'

**CERTIFICATION:**

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DESIGNER'S SEAL & SIGNATURE

SLP JOP II, LLC HEREBY CERTIFIES THAT THE GRADING, EROSION AND SEDIMENT CONTROL FACILITIES FOR JACK'S RESTAURANT SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS REPORT. I UNDERSTAND THAT THE CITY OF LONE TREE DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE GRADING, EROSION AND SEDIMENT CONTROL FACILITIES DESIGNED AND/OR CERTIFIED BY MY ENGINEER AND THAT THE CITY OF LONE TREE REVIEWS GESC PLANS, BUT CANNOT, ON BEHALF OF JACK'S RESTAURANT, GUARANTEE THAT FINAL REVIEW WILL ABSOLVE SLP JOP II, LLC AND/OR THEIR SUCCESSORS AND/OR ASSIGNS OF FUTURE LIABILITY FOR IMPROPER DESIGN.

SLP JOP II, LLC

AUTHORIZED SIGNATURE

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CITY OF LONE TREE

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ENGINEERING DIVISION ACCEPTANCE BLOCK

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ELEVATION: 5802.07

**FINAL GESC PLAN**

**JACK'S RESTAURANT**

**1.20 ACRES - LOT 1 PARK MEADOWS FILING 2**

**CITY OF LONE TREE, COLORADO**

ENGINEER

**DEC**

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FRISCO, TEXAS 75034  
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P.E. NO.: 107767  
DATE: 03/15/24

ISSUE DATE: 03/15/24  
DEC FILE NO.: 105616  
CITY FILE NO.: -  
SHEET NO.: C4.3



GRADING, EROSION, AND SEDIMENT CONTROL (GESC) GENERAL NOTES

- 1. THE CITY OF LONE TREE ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE CITY OF LONE TREE PUBLIC WORKS DEPARTMENT...
2. THE ADEQUACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
3. THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE CITY OF LONE TREE...

DETAIL SHEET

Table with columns NO., NO., and BMP LEGEND. Lists various BMP types such as CHECK DAM, COMPOST BLANKET, COMPOST FILTER BERM, CONCRETE WASHOUT AREA, CONSTRUCTION FENCE, etc.

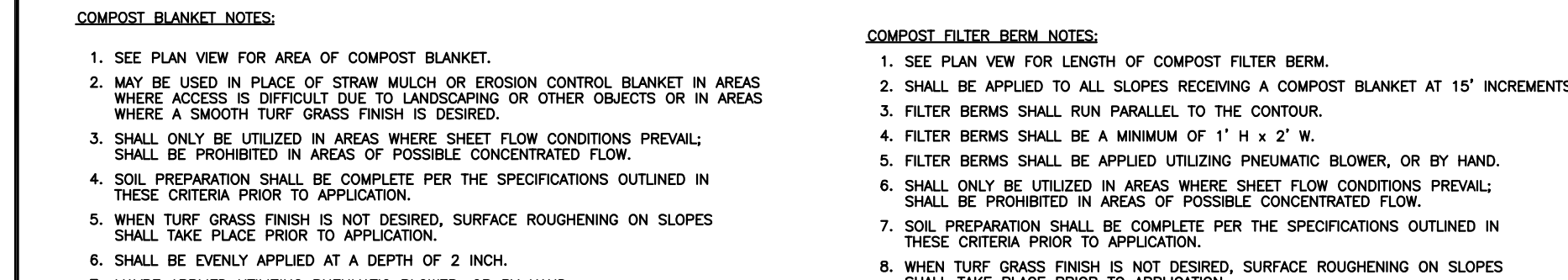
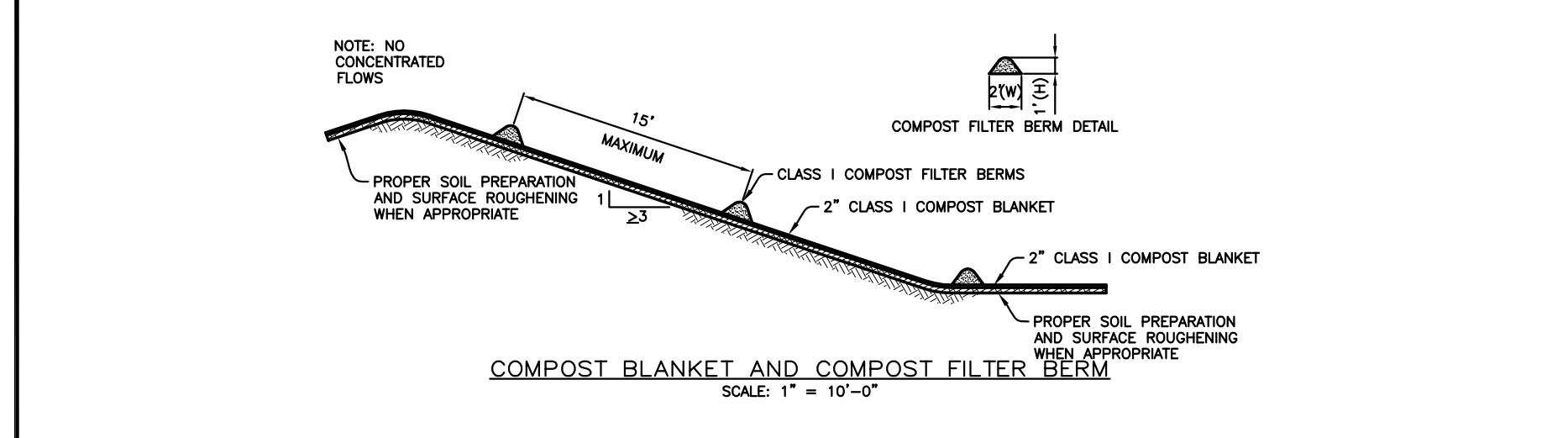
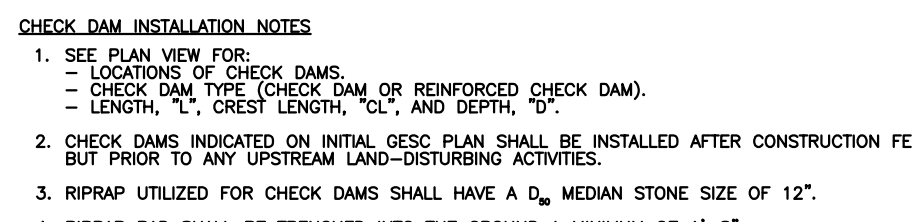
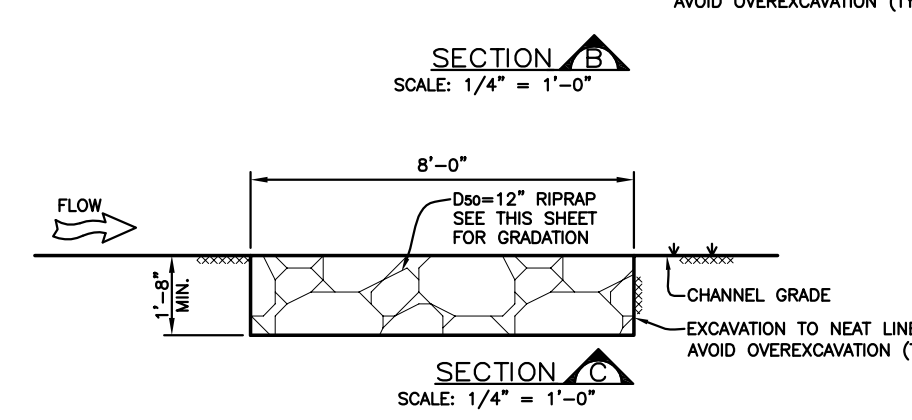
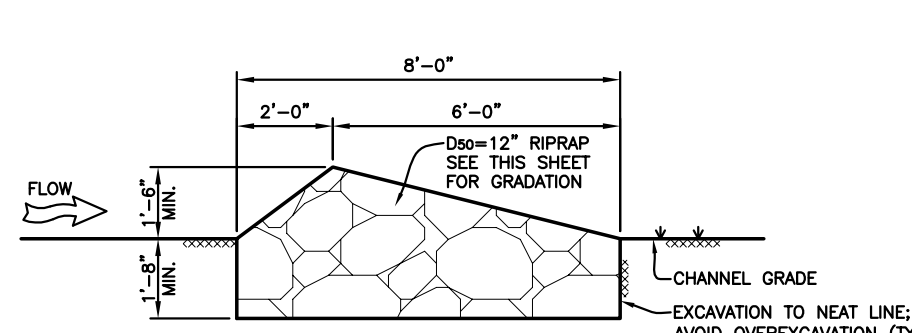
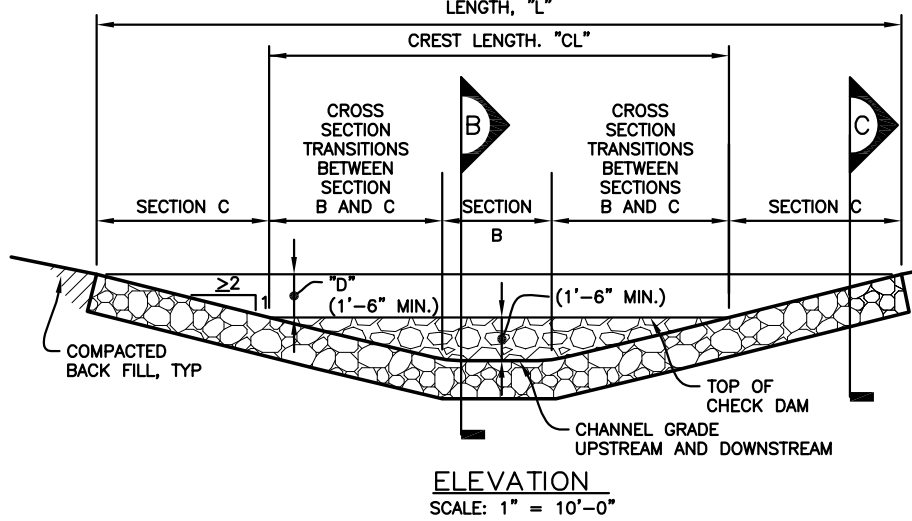
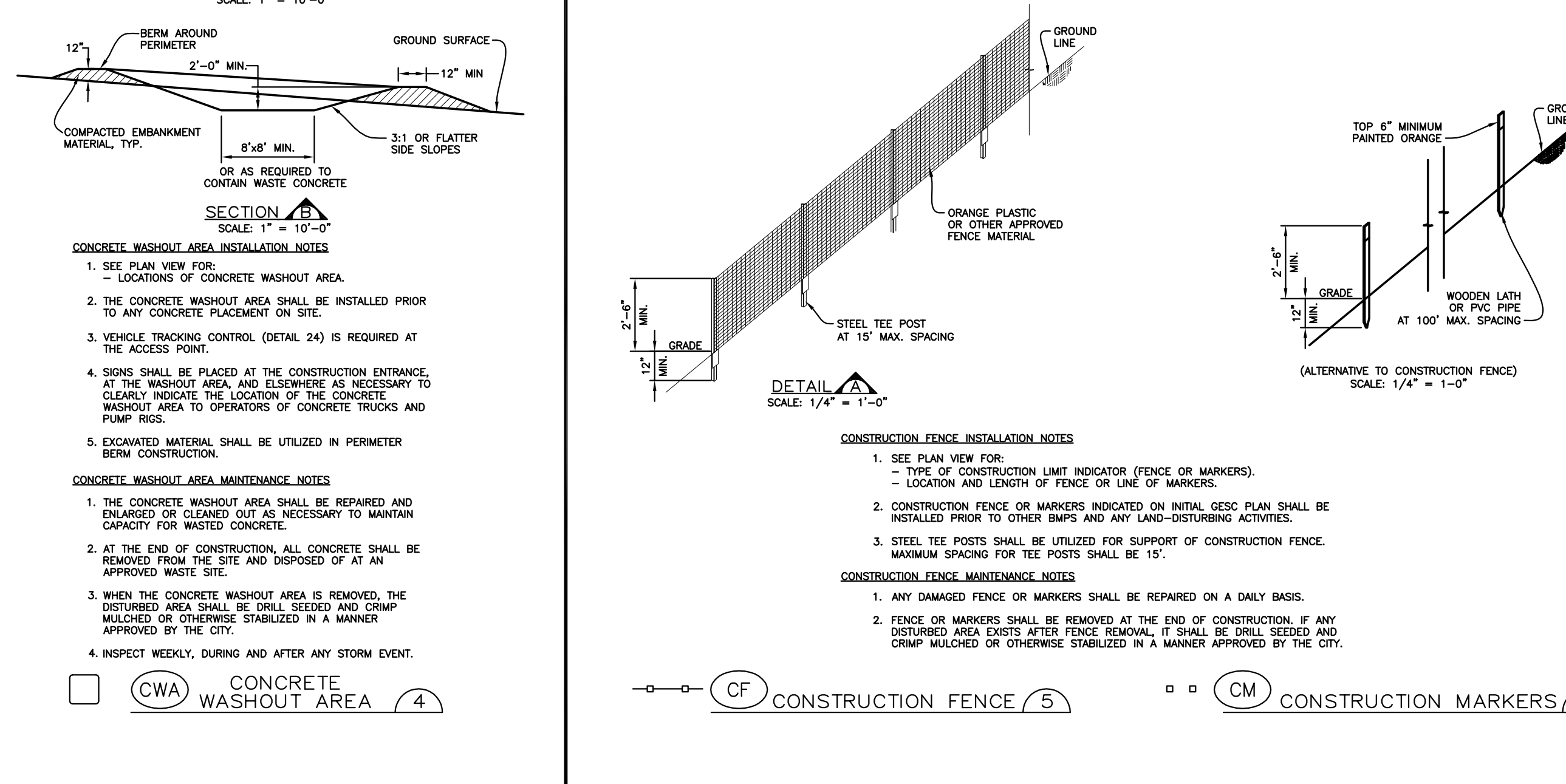
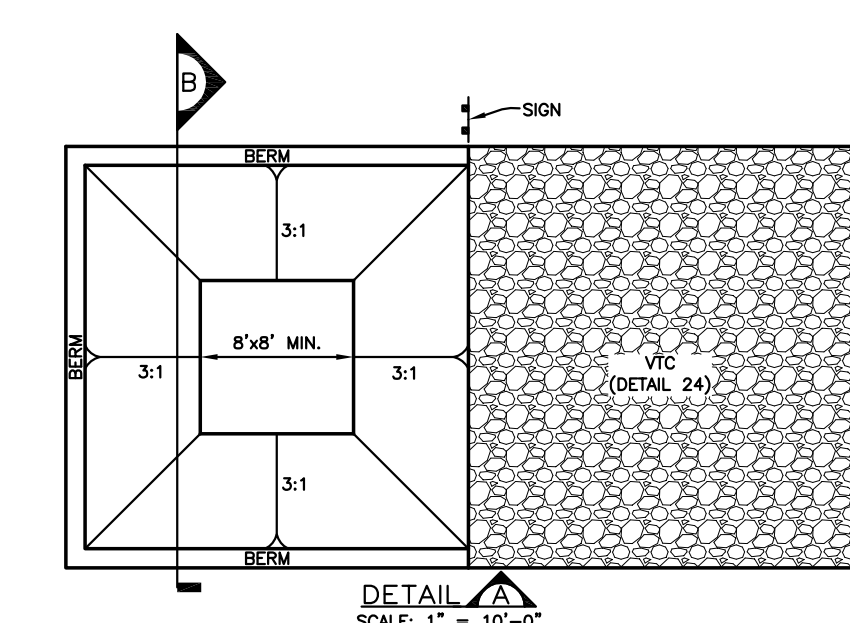
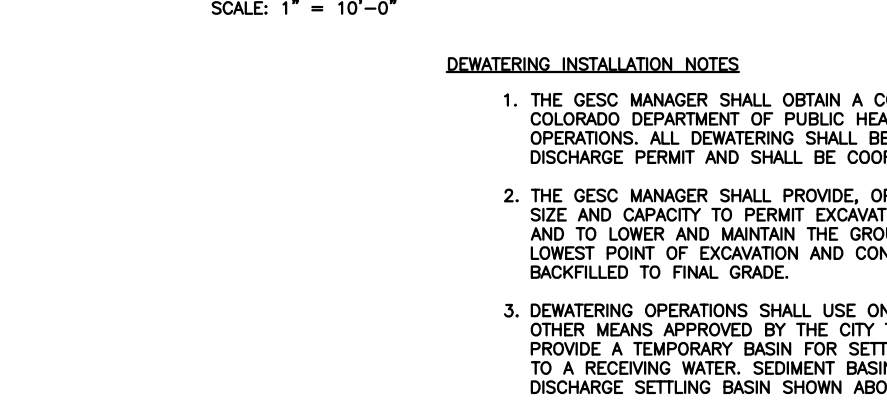
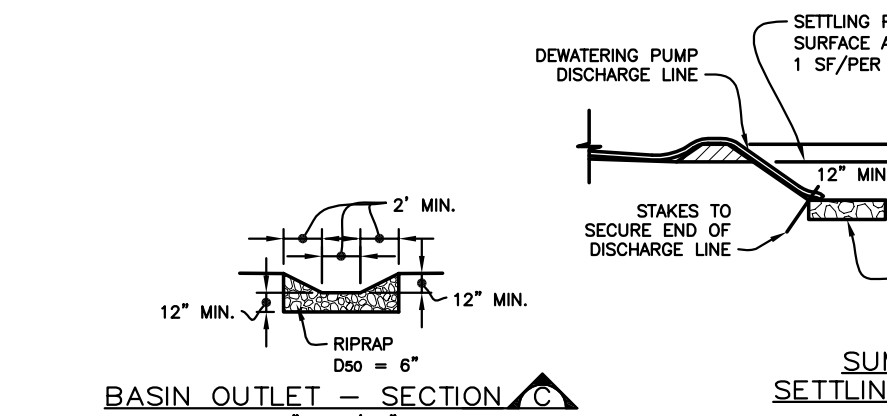
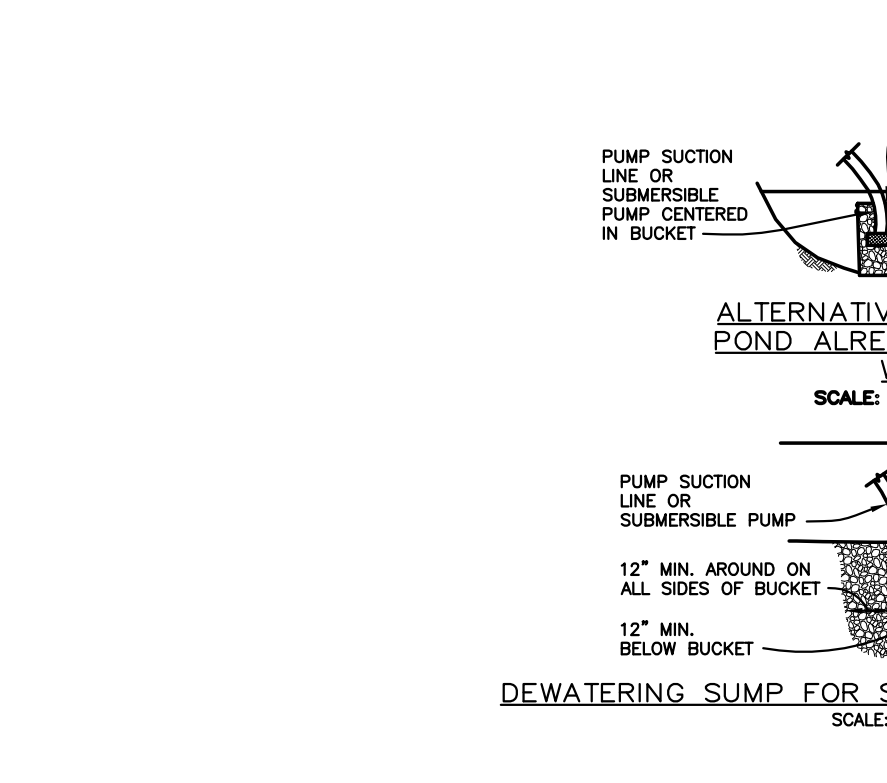


Table with columns PARAMETERS, CLASS 1 COMPOST FOR COMPOST BLANKET, and CLASS 1 COMPOST FOR COMPOST FILTER BERM. Lists various soil and water quality parameters.

- 1. SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
2. MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT...
3. SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL...

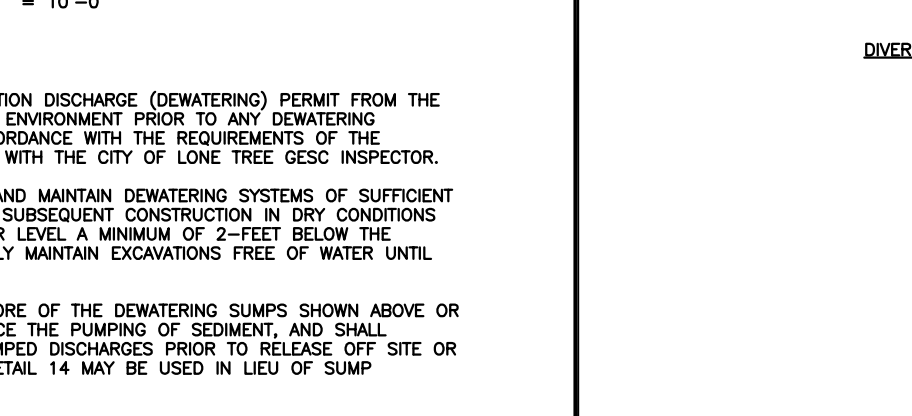
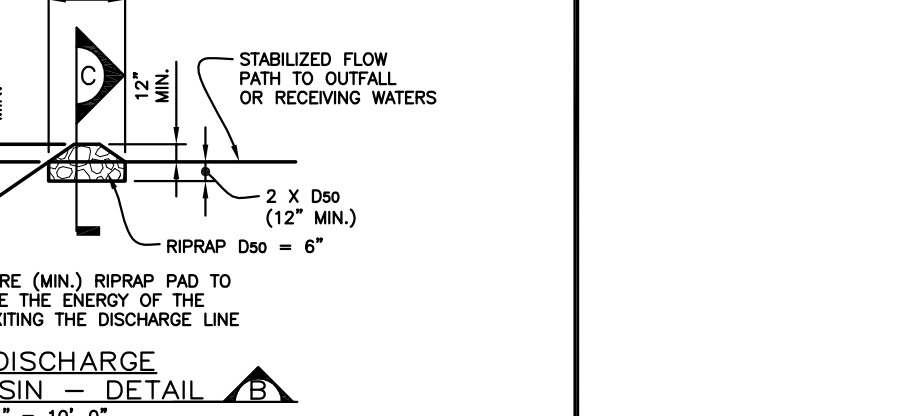
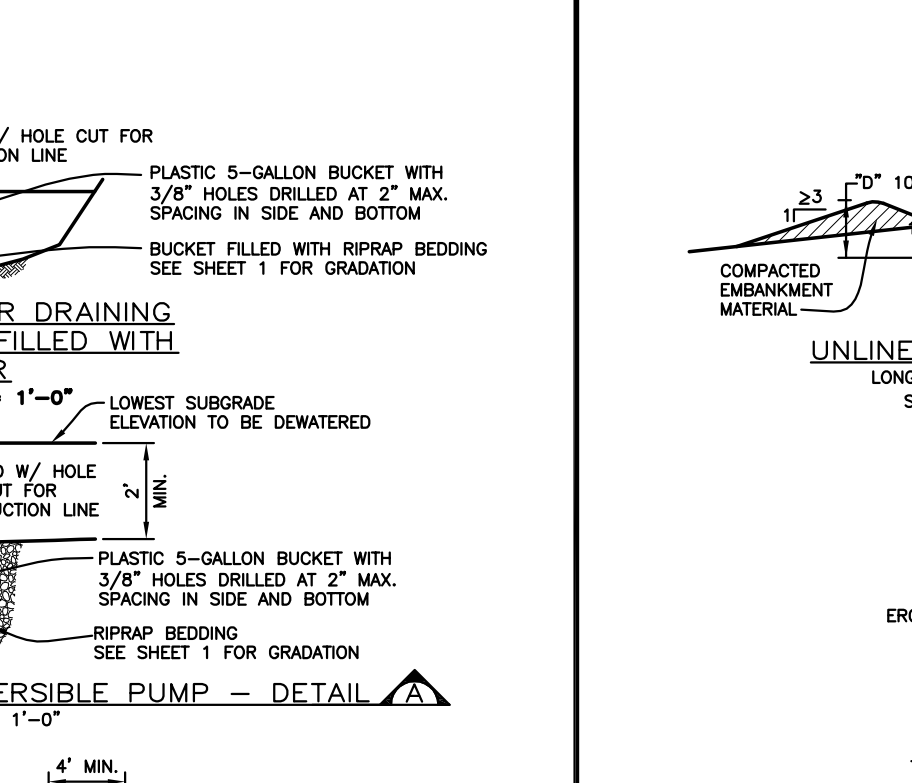


- CHECK DAM INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATIONS OF CHECK DAMS
- LENGTH, 'L', CREST LENGTH, 'CL', AND DEPTH, 'D'.



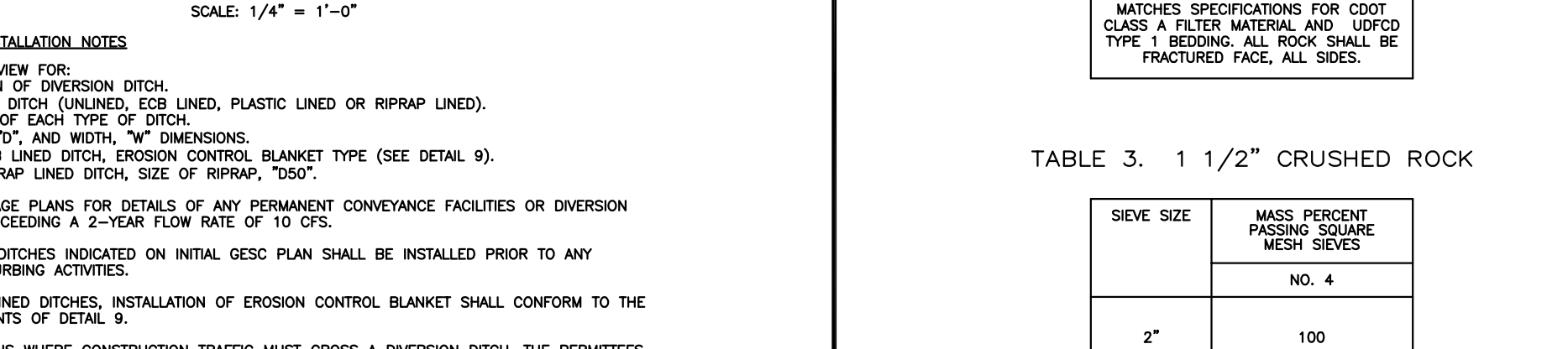
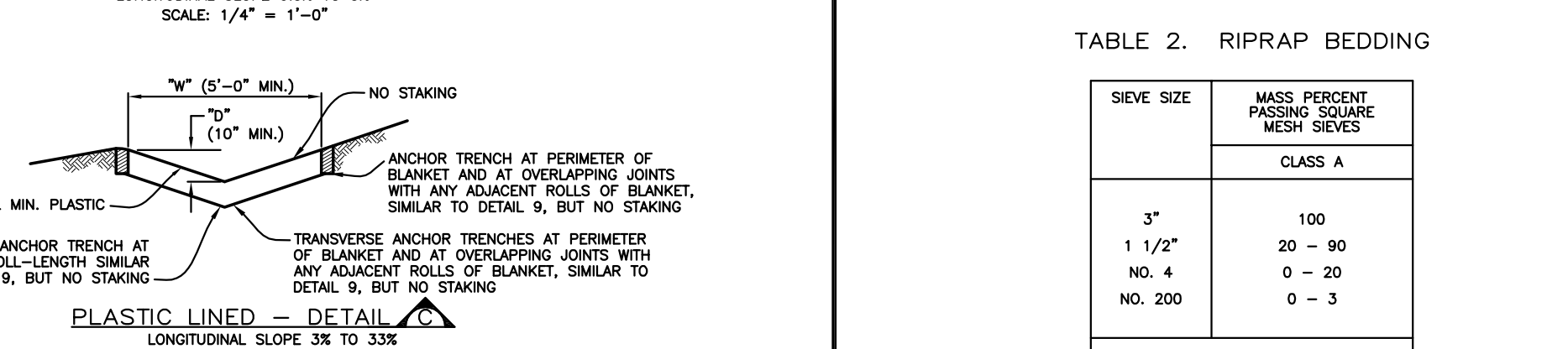
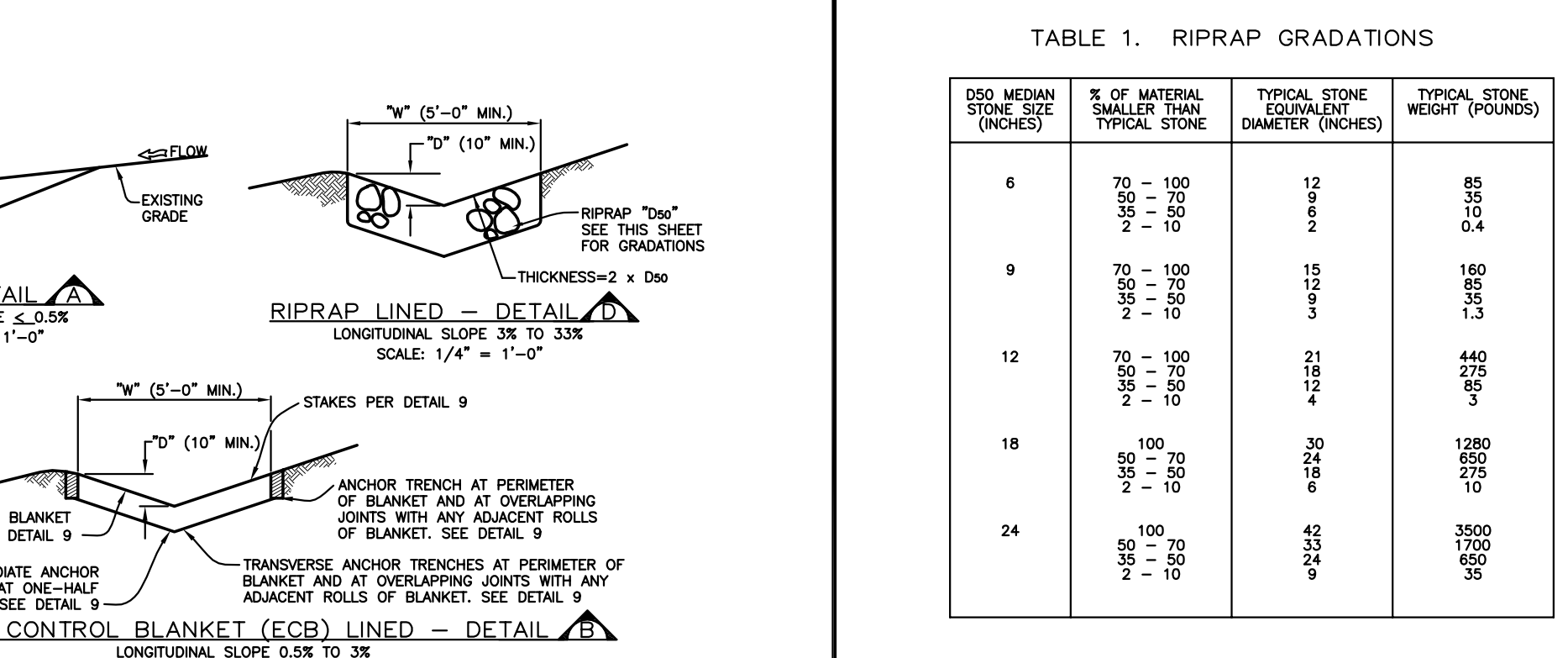
- DEWATERING INSTALLATION NOTES
1. THE GESC MANAGER SHALL OBTAIN A CONSTRUCTION DISCHARGE (DEWATERING) PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT...
2. THE GESC MANAGER SHALL PROVIDE OPERATE AND MAINTAIN DEWATERING SYSTEMS OF SUFFICIENT SIZE AND CAPACITY...

- CHECK DAM MAINTENANCE NOTES
1. THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED...



- DEWATERING MAINTENANCE NOTES
1. THE GESC MANAGER SHALL INSPECT DEWATERING SYSTEMS AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A HOURLY BASIS.
2. TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS...

- COMPOST BLANKET NOTES
1. SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
2. MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET...
3. SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL...



- DEWATERING MAINTENANCE NOTES
1. THE GESC MANAGER SHALL INSPECT DEWATERING SYSTEMS AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A HOURLY BASIS.
2. TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS...

TABLE 1. RIPRAP GRADATIONS

Table with columns D50 MEDIAN STONE SIZE (INCHES), % OF MATERIAL SMALLER THAN TYPICAL STONE, TYPICAL STONE DIAMETER (INCHES), and TYPICAL STONE WEIGHT (POUNDS).

TABLE 2. RIPRAP BEDDING

Table with columns SIEVE SIZE, MASS PERCENT PASSING SQUARE MESH SIEVES, and CLASS.

TABLE 3. 1 1/2" CRUSHED ROCK

Table with columns SIEVE SIZE, MASS PERCENT PASSING SQUARE MESH SIEVES, and CLASS.

ROCK AND RIPRAP GRADATIONS

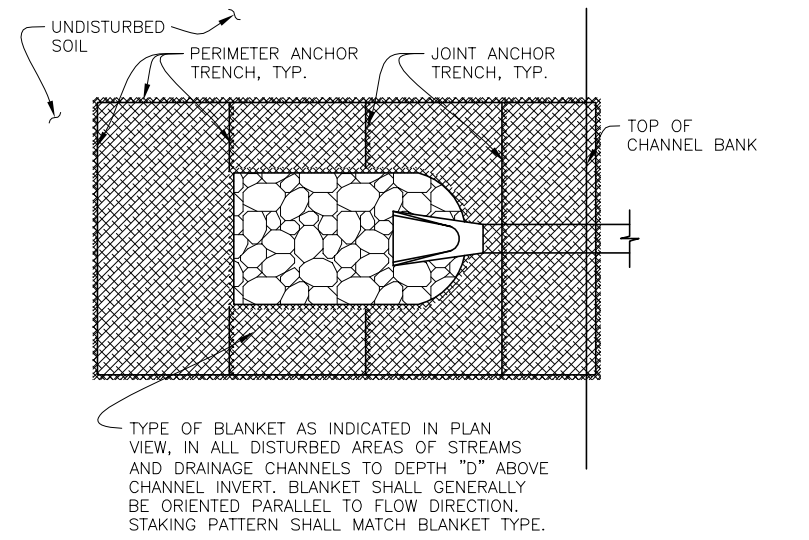
Table with columns SIEVE SIZE, MASS PERCENT PASSING SQUARE MESH SIEVES, and CLASS.

Table with columns Date, Description, and Approved By. Lists revisions to the sheet.

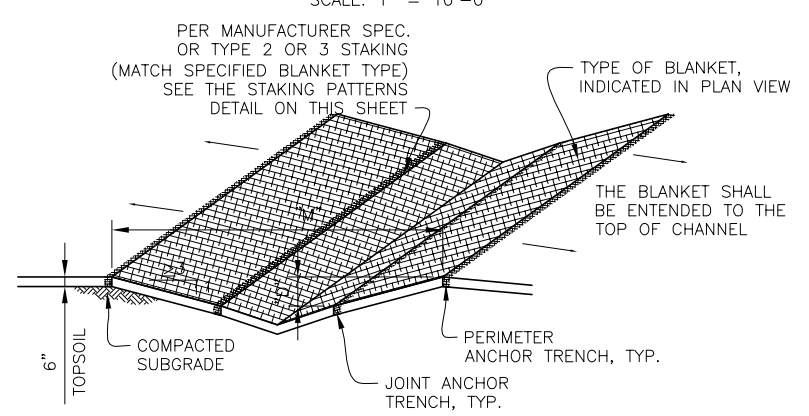
NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

CITY OF LONE TREE logo and Department of Public Works Engineering Division information.

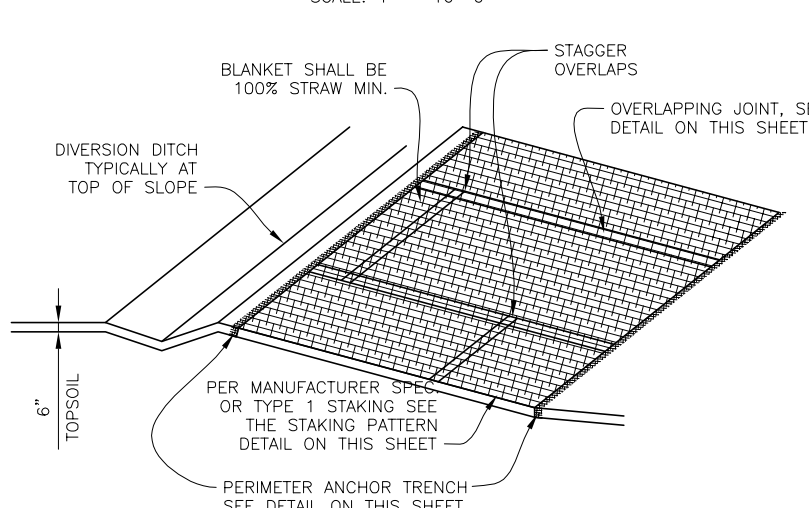
GESC GRADING, EROSION, AND SEDIMENT CONTROL



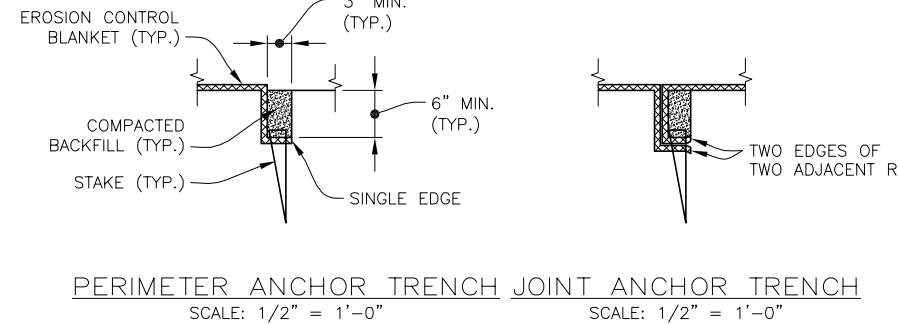
**IN DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS - DETAIL**  
SCALE: 1" = 10'-0"



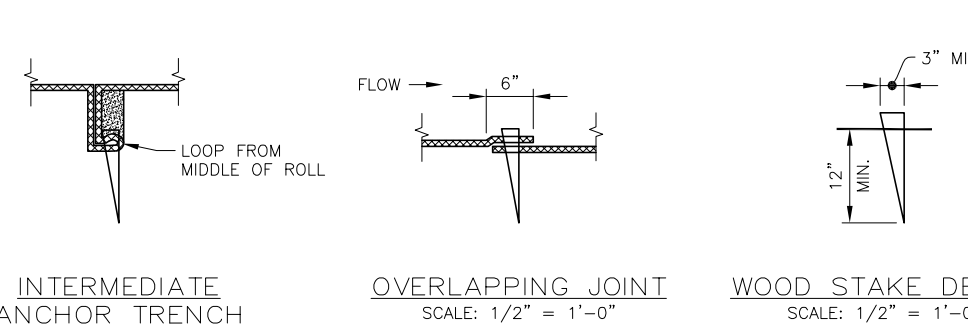
**IN DIVERSION DITCH OR SMALL DITCH DRAINAGE - DETAIL**  
SCALE: 1" = 10'-0"



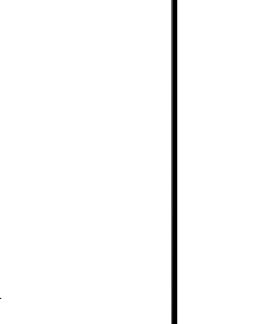
**OUTSIDE OF STREAMS AND DRAINAGE CHANNELS - DETAIL**  
SCALE: 1" = 10'-0"



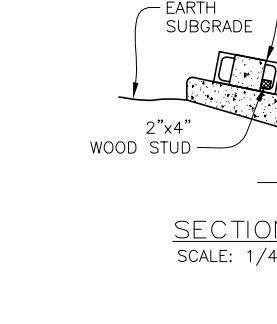
**PERIMETER ANCHOR TRENCH JOINT ANCHOR TRENCH**  
SCALE: 1/2" = 1'-0"



**INTERMEDIATE ANCHOR TRENCH**  
SCALE: 1/2" = 1'-0"



**OVERLAPPING JOINT**  
SCALE: 1/2" = 1'-0"



**WOOD STAKE DETAIL**  
SCALE: 1/2" = 1'-0"

**EROSION CONTROL BLANKET INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF PERIMETER OF EROSION CONTROL BLANKET.
  - TYPE OF BLANKET (STRAW, STRAW-COCOONUT, COCOONUT OR EXCELSIOR).
  - AREA "A" IN SQUARE YARDS OF EACH TYPE OF BLANKET.
- ALL EROSION CONTROL BLANKETS AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL, NO PLASTIC OR OTHER SYNTHETIC MATERIAL, EVEN IF PHOTO DEGRADABLE, SHALL BE ALLOWED.
- IN AREAS WHERE EROSION CONTROL BLANKET IS SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE REQUIREMENTS OF DETAIL 17. SEEDING AND MULCHING SUBGRADE SHALL BE SMOOTH AND MOST PRIOR TO BLANKET INSTALLATION AND THE BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE, NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED AT OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL BLANKETS EXCEPT STRAW, WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF THE ROLL LENGTH FOR COCOONUT AND EXCELSIOR BLANKETS.
- THE OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER FOR BLANKETS ON SLOPES.
- MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKET SHALL CONFORM TO TABLE 7.1.

**EROSION CONTROL BLANKET INSTALLATION NOTES - CONTINUED**

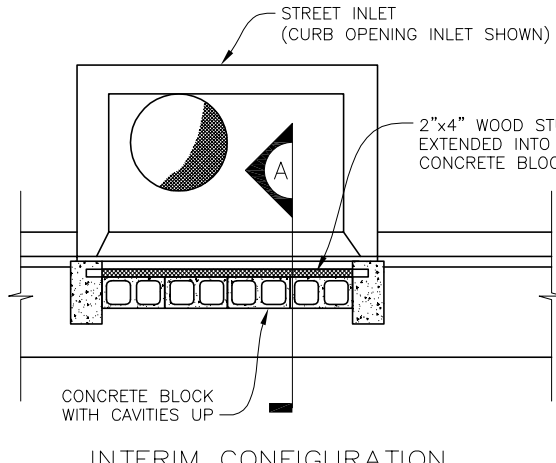
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKET SHALL BE RESEED AND MULCHED IN ACCORDANCE WITH DETAIL 17.
- SEE DRAINAGE DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION MEASURES THAT MAY EXCEED THE DESIGN CONDITIONS ASSOCIATED WITH THE DETAILS ABOVE.

TABLE 7.1 - EROSION CONTROL BLANKET TYPE			
TYPE	COCOONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT
STRAW*	100%	0%	0%
STRAW-COCOONUT	30% MIN.	70% MAX.	0%
COCOONUT	100%	0%	0%
EXCELSIOR	0%	0%	100%

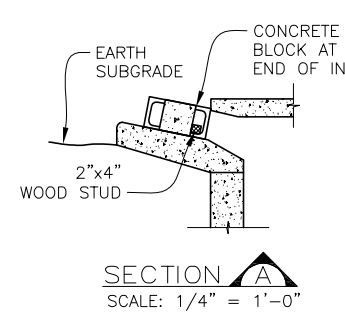
\* FOR OUTSIDE OF STREAMS AND DRAINAGE CHANNELS

**EROSION CONTROL BLANKET MAINTENANCE NOTES**

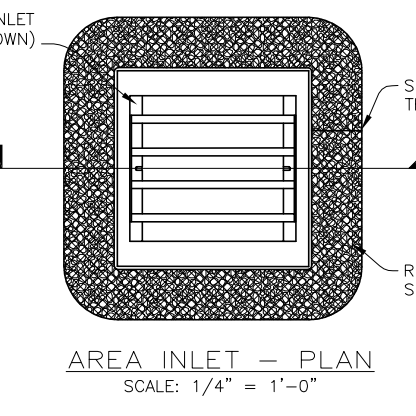
- THE GESC MANAGER SHALL INSPECT EROSION CONTROL BLANKETS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.
- EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE CITY.
- ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE RE-INSTALLED. ANY SUBGRADE AREAS BELOW THE BLANKET THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.



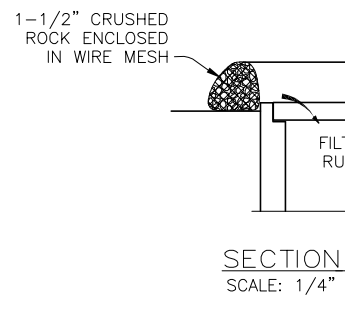
**INTERIM CONFIGURATION (BEFORE PAVING) STREET INLET - PLAN**  
SCALE: 1/4" = 1'-0"



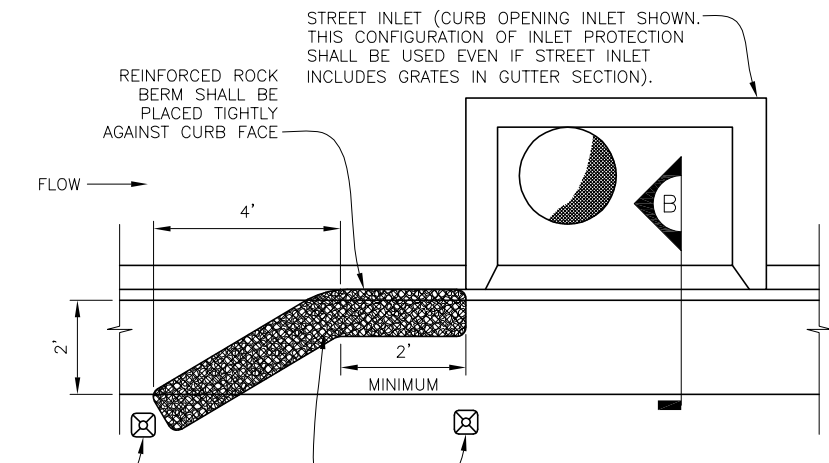
**SECTION**  
SCALE: 1/4" = 1'-0"



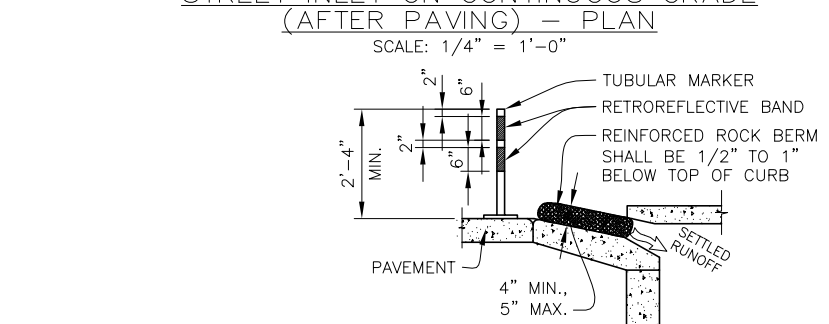
**AREA INLET - PLAN**  
SCALE: 1/4" = 1'-0"



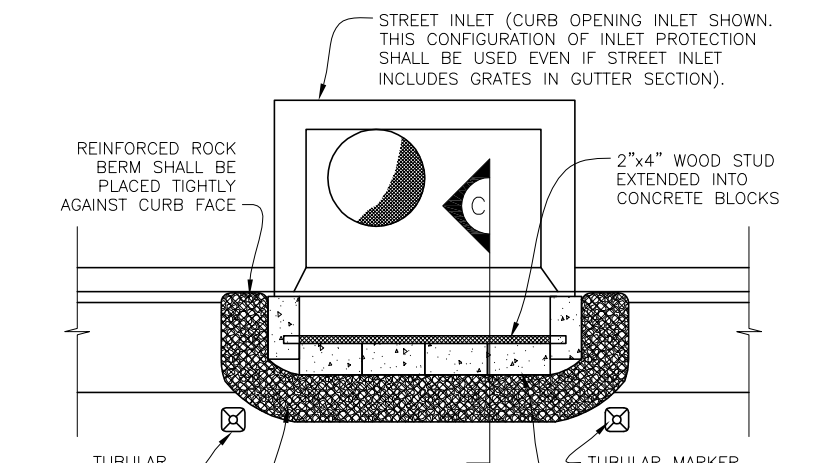
**SECTION**  
SCALE: 1/4" = 1'-0"



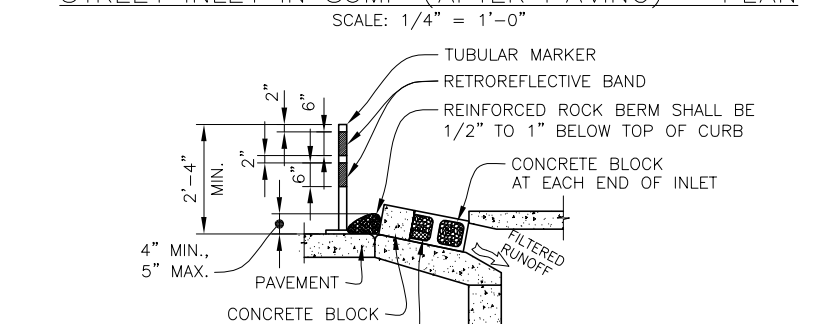
**STREET INLET ON CONTINUOUS GRADE (AFTER PAVING) - PLAN**  
SCALE: 1/4" = 1'-0"



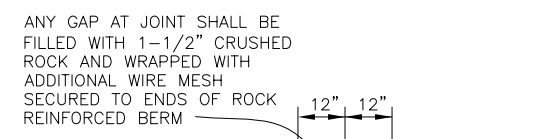
**SECTION**  
SCALE: 1/4" = 1'-0"



**STREET INLET IN SUMP (AFTER PAVING) - PLAN**  
SCALE: 1/4" = 1'-0"



**SECTION**  
SCALE: 1/4" = 1'-0"



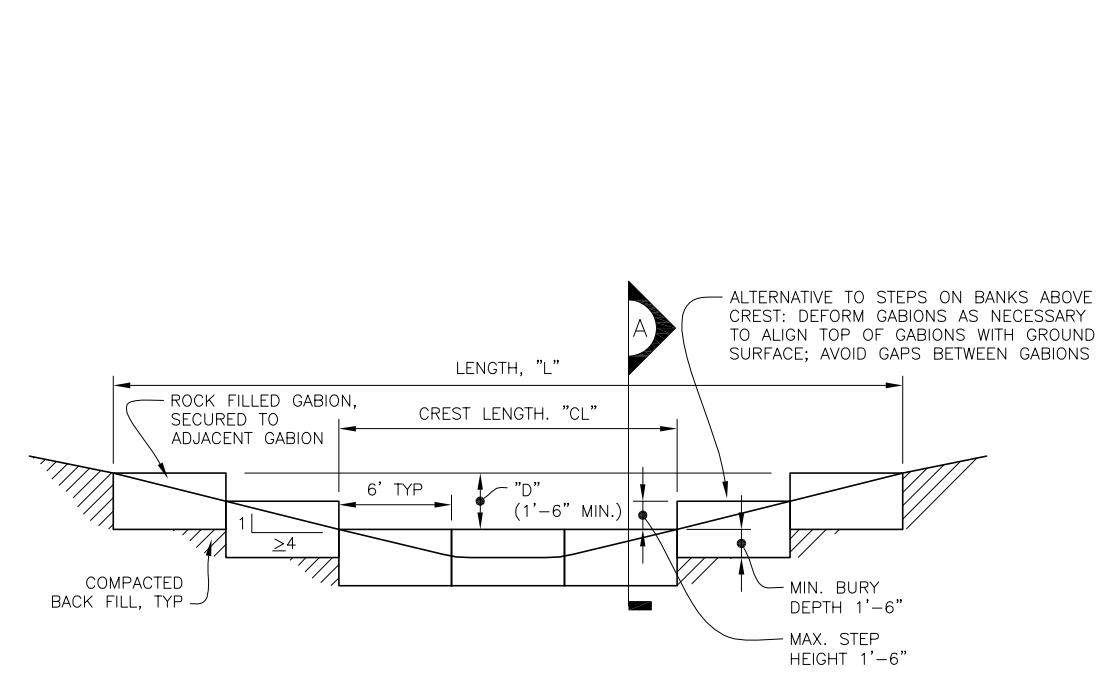
**SCALE: 1/4" = 1'-0"**

**INLET PROTECTION INSTALLATION NOTES**

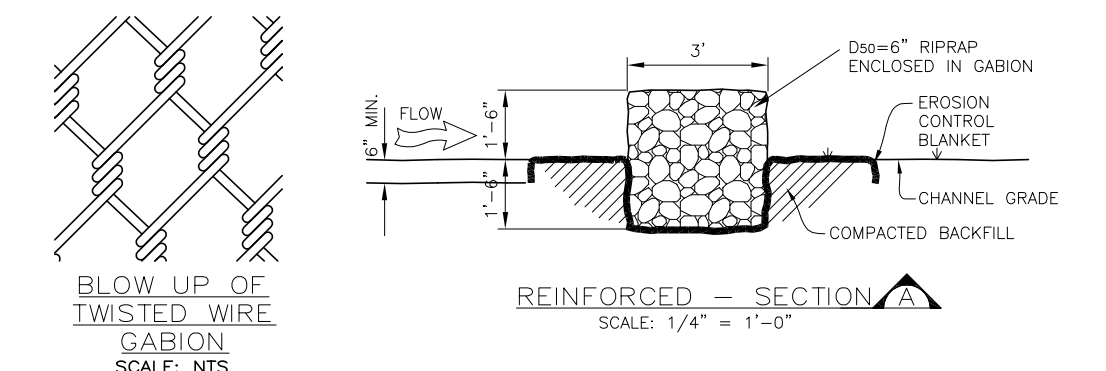
- INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET. INLET PROTECTION (AFTER PAVING) SHALL BE INSTALLED WITHIN 48 HOURS AFTER PAVING IS PLACED.
- INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET.
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT DETAIL.
- TUBULAR MARKERS SHALL MEET REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED.
- THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB.

**INLET PROTECTION MAINTENANCE NOTES**

- THE GESC MANAGER SHALL INSPECT INLET PROTECTION WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY. MORE FREQUENT INSPECTIONS AND REPAIRS SHALL BE REQUIRED DURING WINTER CONDITIONS DUE TO FREEZE/THAW PROBLEMS.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF ROCK BERM IS WITHIN 2-1/2 INCHES OF THE CREST.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS THE CITY APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.



**REINFORCED - ELEVATION**  
SCALE: 1" = 10'-0"



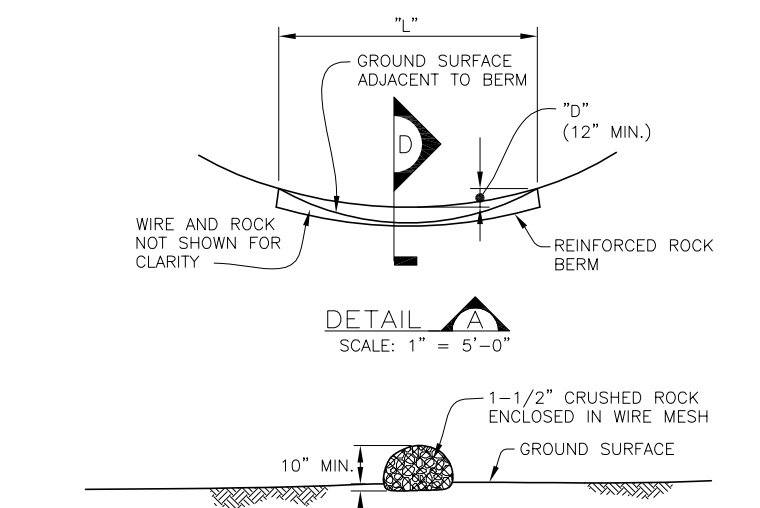
**REINFORCED - SECTION**  
SCALE: 1/4" = 1'-0"

**REINFORCED CHECK DAM INSTALLATION NOTES**

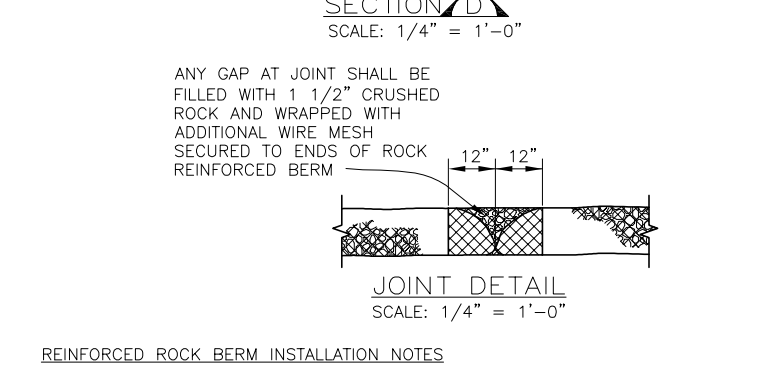
- SEE PLAN VIEW FOR:
  - LOCATIONS OF CHECK DAMS.
  - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
  - LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
- CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
- REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4-1/2" AND A MINIMUM WIRE THICKNESS OF 0.10" WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT GABION.
- RIRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D<sub>50</sub> MEDIAN STONE SIZE OF 6".
- THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-6".
- EROSION BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1'-6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

**REINFORCED CHECK DAM MAINTENANCE NOTES**

- THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
- CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.



**SECTION**  
SCALE: 1/4" = 1'-0"



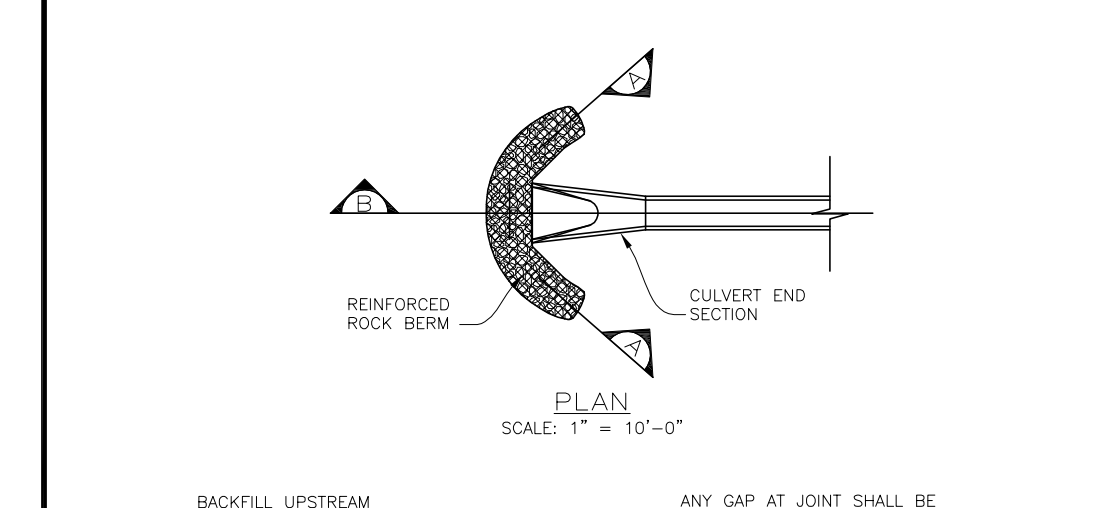
**JOINT DETAIL**  
SCALE: 1/4" = 1'-0"

**REINFORCED ROCK BERM INSTALLATION NOTES**

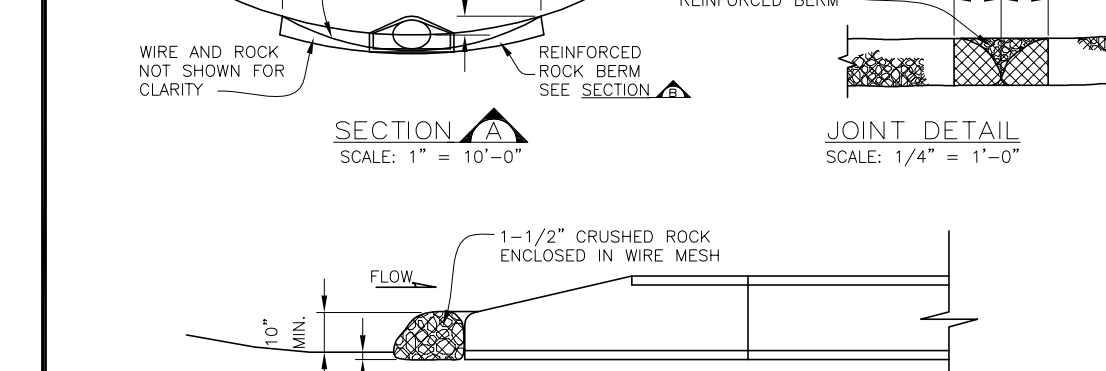
- SEE PLAN VIEW FOR:
  - LOCATIONS OF REINFORCED ROCK BERMS.
  - LENGTH, "L", AND DEPTH, "D".
- REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- FOR CONCENTRATED FLOW AREAS THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.

**REINFORCED ROCK BERM MAINTENANCE NOTES**

- THE GESC MANAGER SHALL INSPECT REINFORCED ROCK BERM WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS WITHIN 5 INCHES OF THE CREST.
- REINFORCED ROCK BERMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.



**SECTION**  
SCALE: 1" = 10'-0"

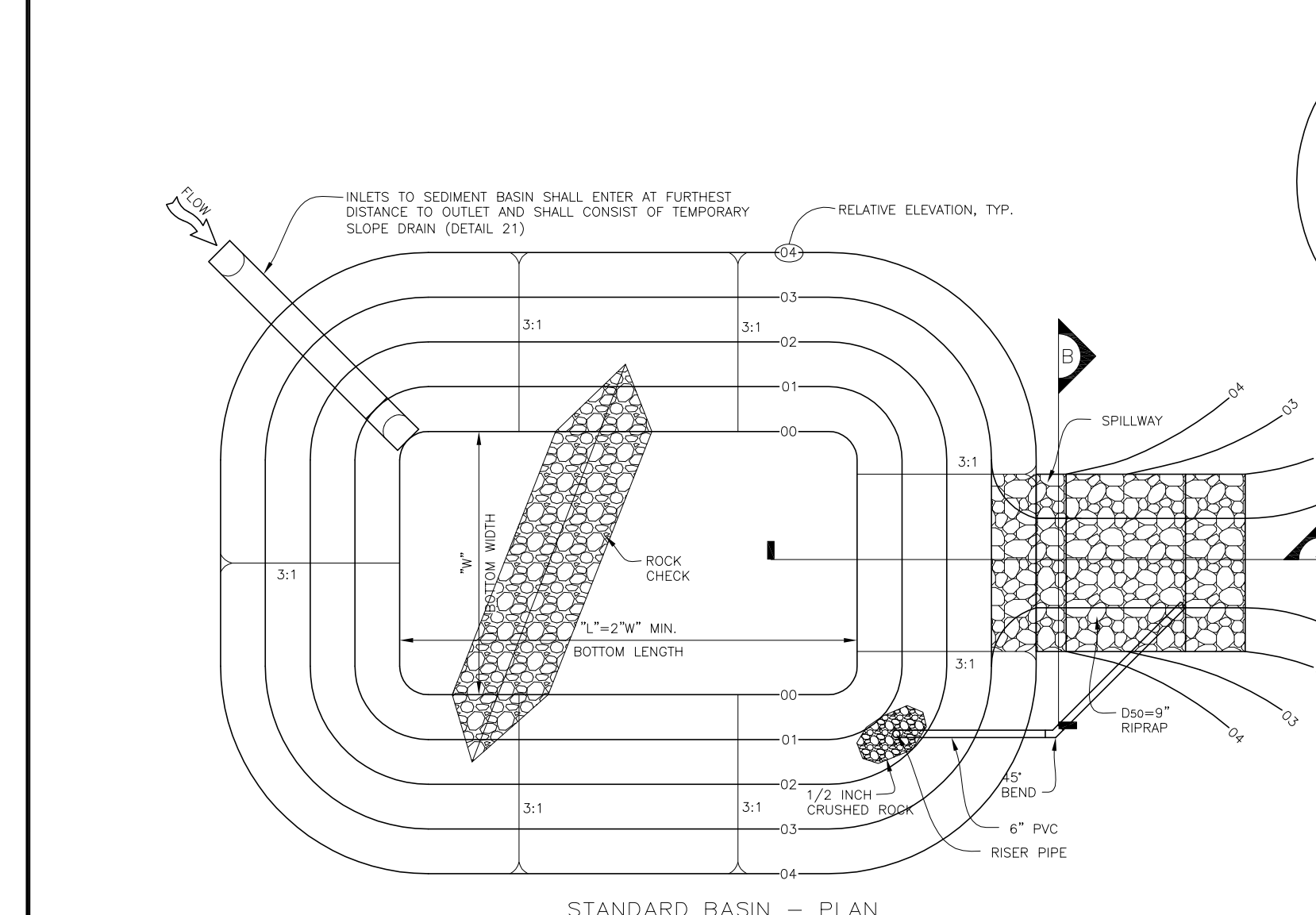


**JOINT DETAIL**  
SCALE: 1/4" = 1'-0"

**RRB FOR CULVERT PROTECTION**

**INSTALLATION NOTES**

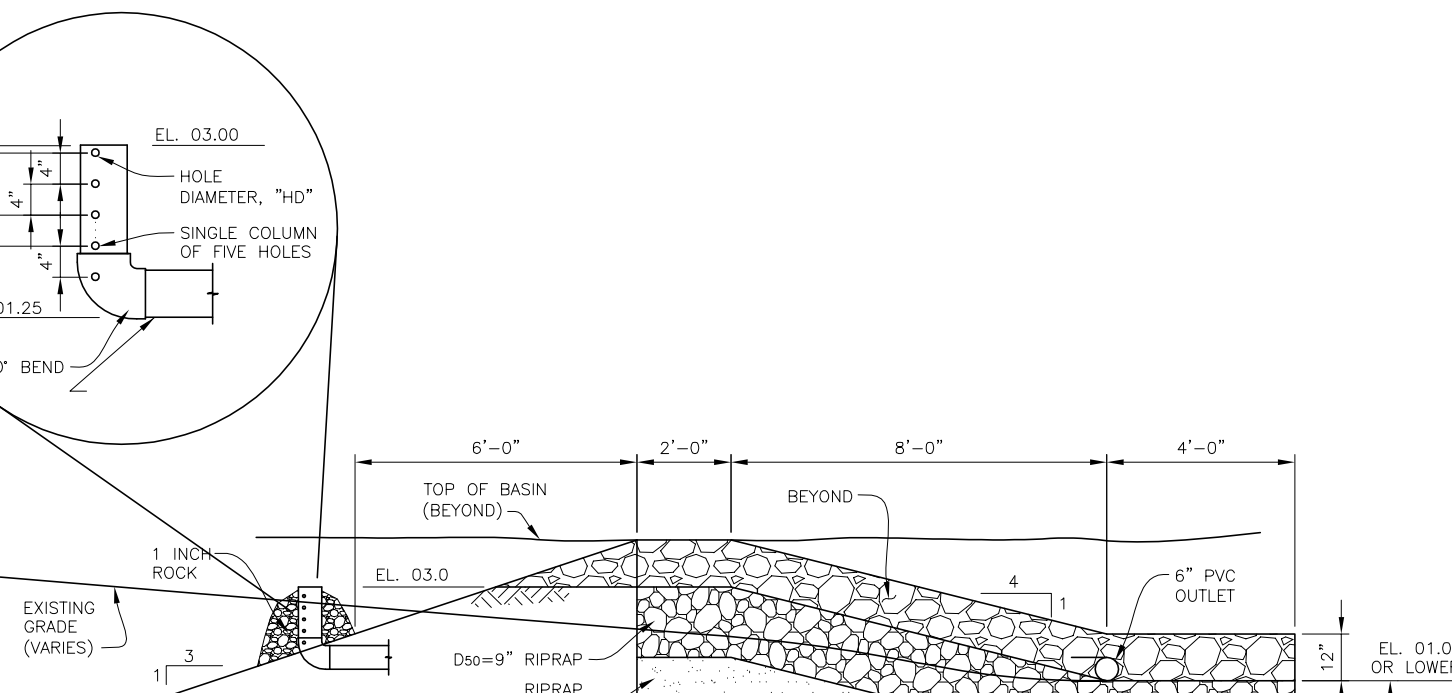
- SEE PLAN VIEW FOR:
  - LOCATIONS OF CULVERT INLET FILTERS.
  - LENGTH, "L", AND DEPTH, "D".
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE").
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.



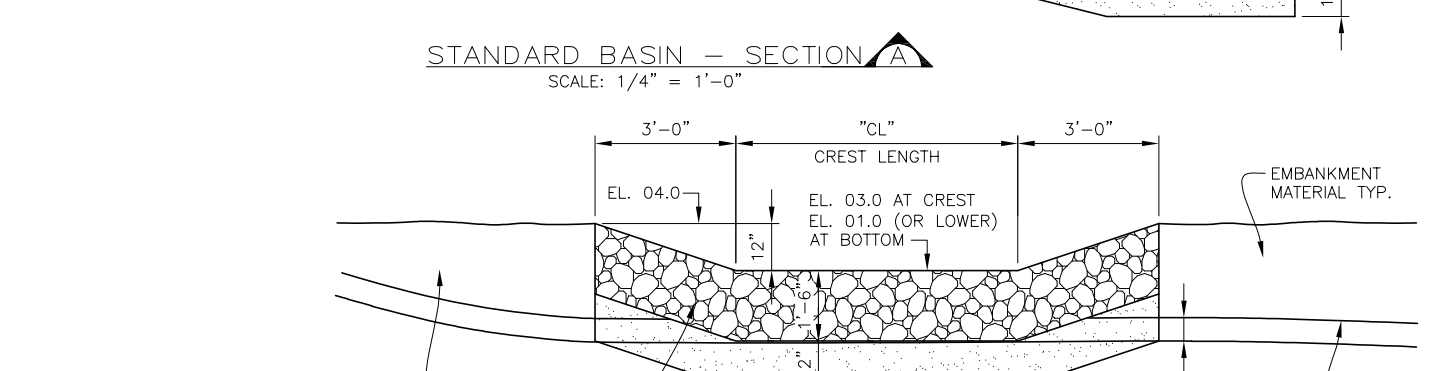
**STANDARD BASIN - PLAN**  
SCALE: 1" = 10'-0"

**SEDIMENT BASIN INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF SEDIMENT BASIN.
  - TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN).
  - FOR STANDARD BASIN, CREST LENGTH, "CL", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "HD".
  - FOR NON-STANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, "H", NUMBER OF COLUMNS, "N", HOLE DIAMETER, "HD", AND PIPE DIAMETER "D".
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASINS IDENTIFIED ON THE GESC PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.



**STANDARD BASIN - SECTION**  
SCALE: 1/4" = 1'-0"



**STANDARD BASIN - SECTION**  
SCALE: 1/4" = 1'-0"

**SEDIMENT BASIN MAINTENANCE NOTES**

- THE GESC MANAGER SHALL INSPECT SEDIMENT BASIN WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED IN SEDIMENT BASIN SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 2.0 FEET OF THE CREST OF THE SPILLWAY.
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE CITY.
- IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.

**Sheet Revisions**

DATE	DESCRIPTION	BY
6/30/05	ADOPTED FROM DOUGLAS COUNTY GESC PLANS	MLP
5/ /08	EDIT UPDATES	GAW
11/ /08	ADD CURB SOCK DETAIL (REF UDFOC, V3 FIGURE C5-23), MISC. NOTE EDITS	GAW

NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

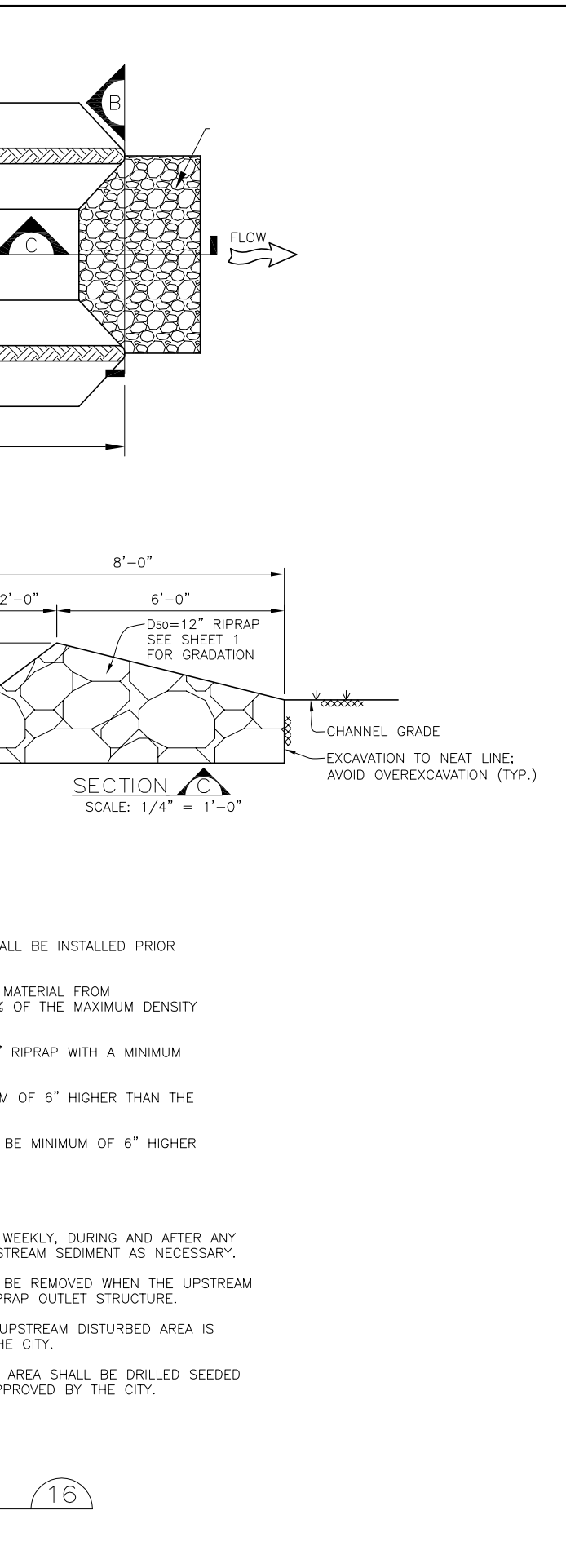
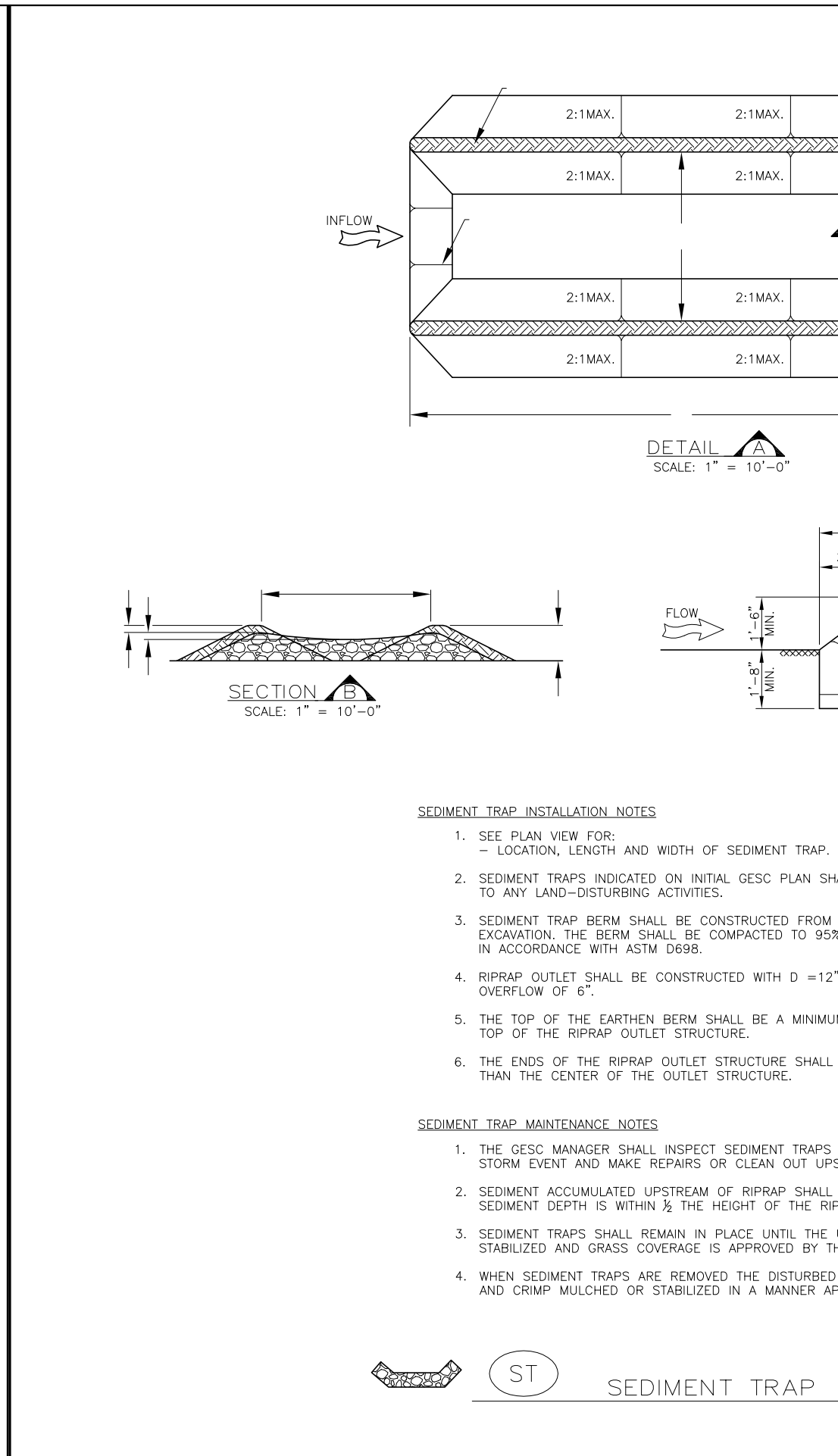
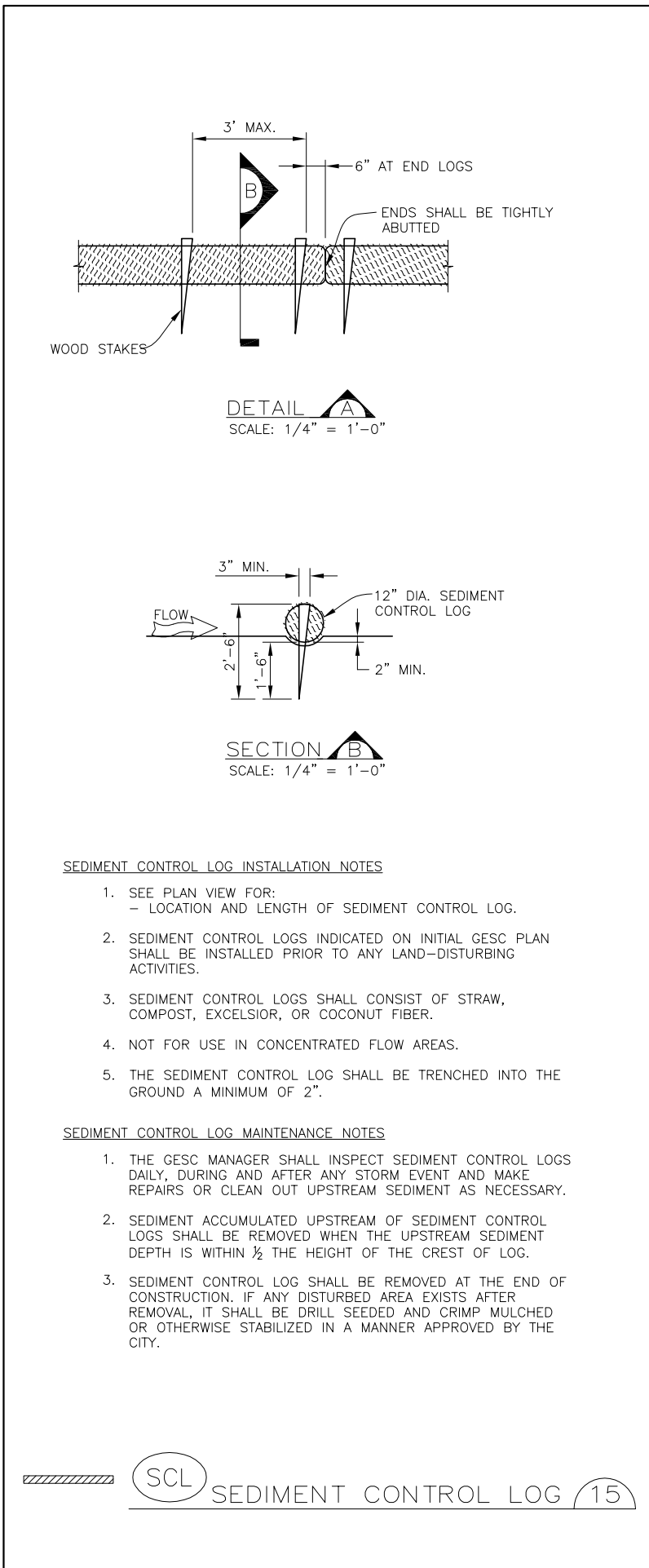


**CITY OF LONE TREE**  
DEPARTMENT OF PUBLIC WORKS  
Engineering Division

**GESC GRADING, EROSION, AND SEDIMENT CONTROL**

**GESC PLAN STANDARD NOTES AND DETAILS**

**SHEET 2 OF 3**



**CITY OF LONE TREE PERMANENT DRILL SEEDING MIX**

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
BIG BLUESTEM	KAW	PNWS	10	1.1
YELLOW INDIANGRASS	CHEYENNE	PNWS	10	1
SWITCHGRASS	BLACKWELL	PNWS	10	0.4
SEEDCATS GRAMA	VAUGHN	PNWB	10	0.9
WESTERN WHEATGRASS	ARRIBA	PNCS	10	1.6
BLUE GRAMA	CHAITA	PNWB	10	0.3
THICKSPIKE WHEATGRASS	CRITANA	PNCS	10	1
PRAIRIE SANDREED	GOSHEN	PNWS	10	0.7
GREEN NEEDLEGRASS	LODOMM	PNCB	10	1
SLENDER WHEATGRASS	PRYOR	PNCB	5	0.6
STREAMBANK WHEATGRASS	SODAR	PNCS	5	0.6
			TOTAL	9.2

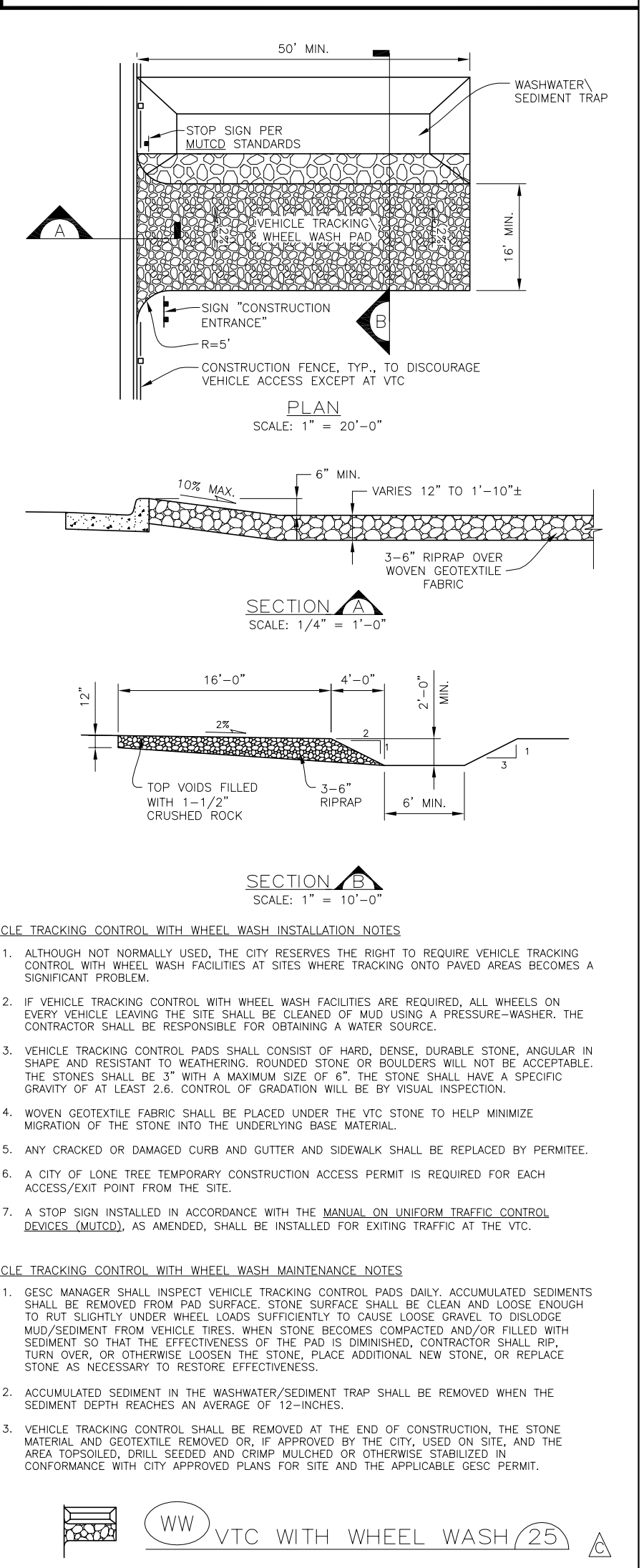
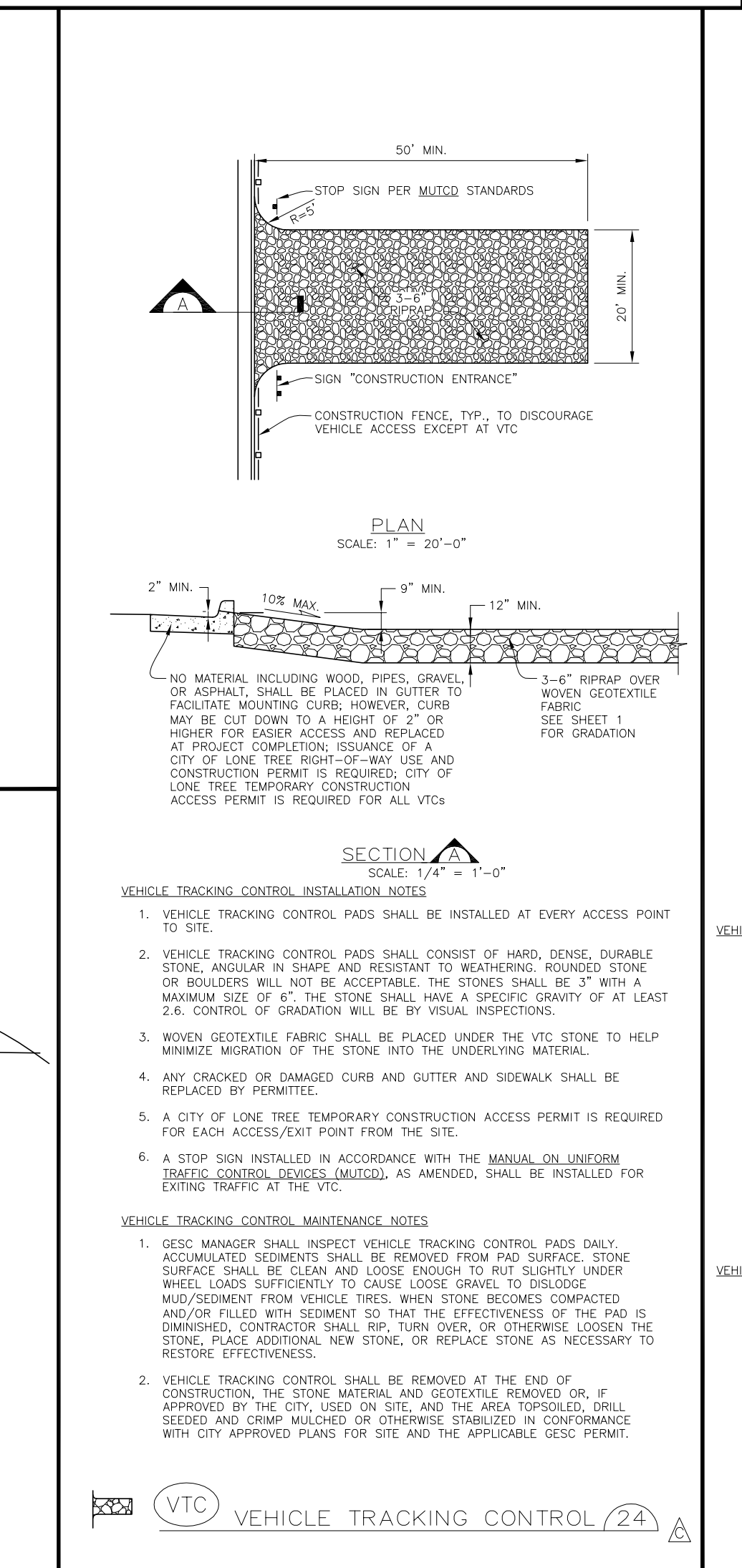
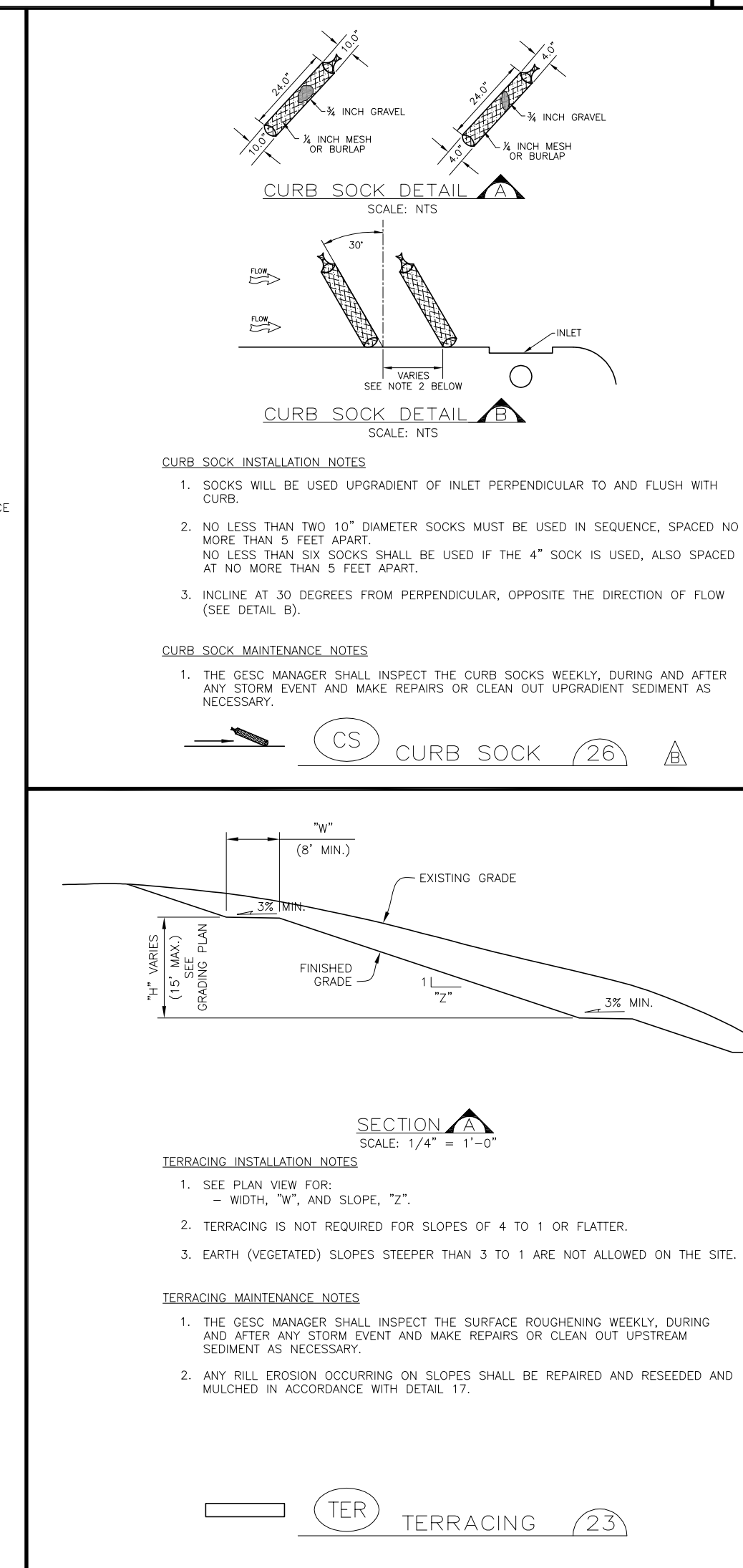
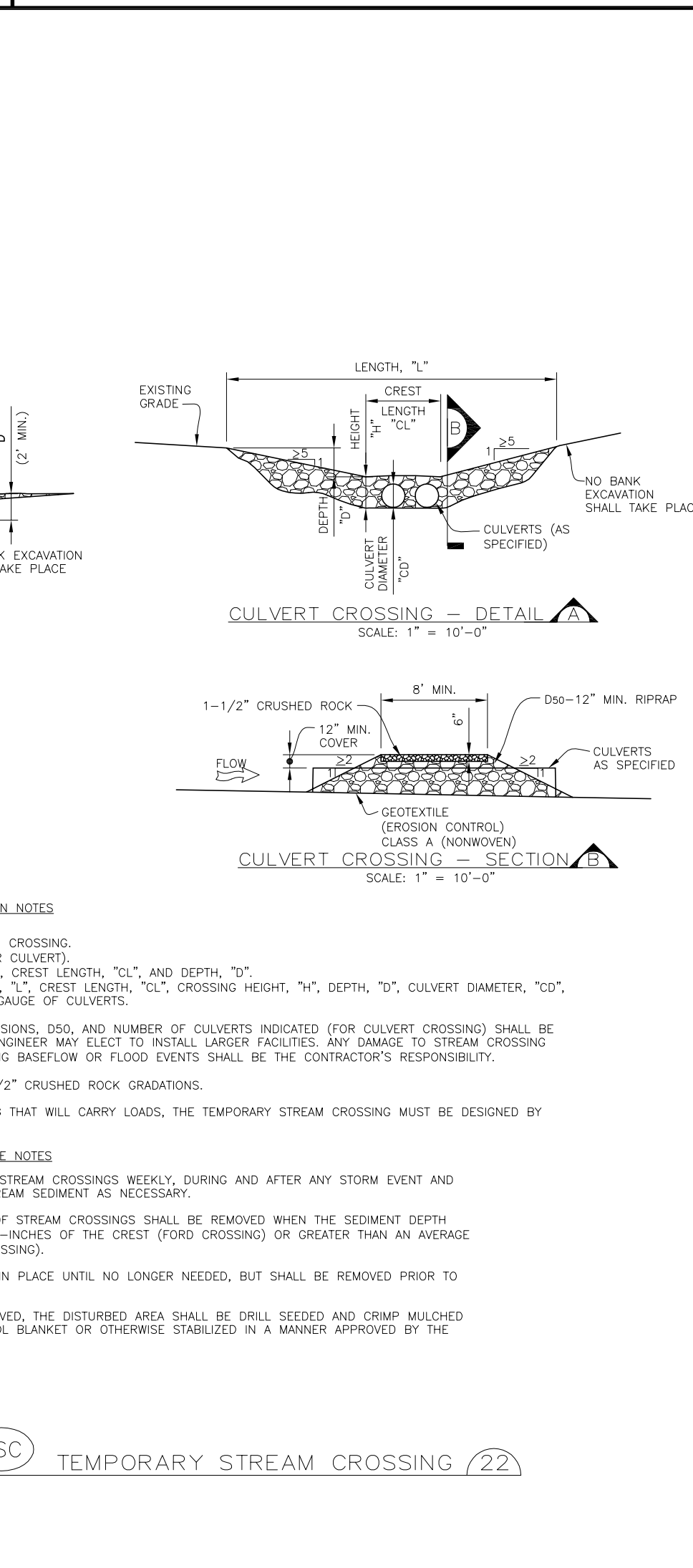
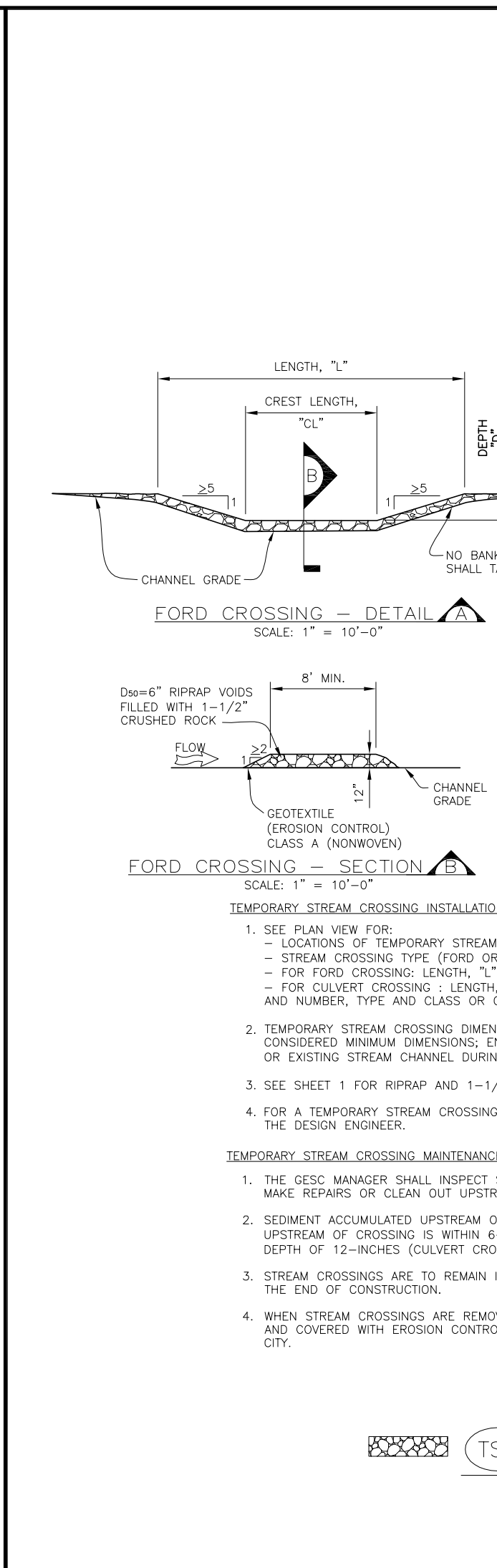
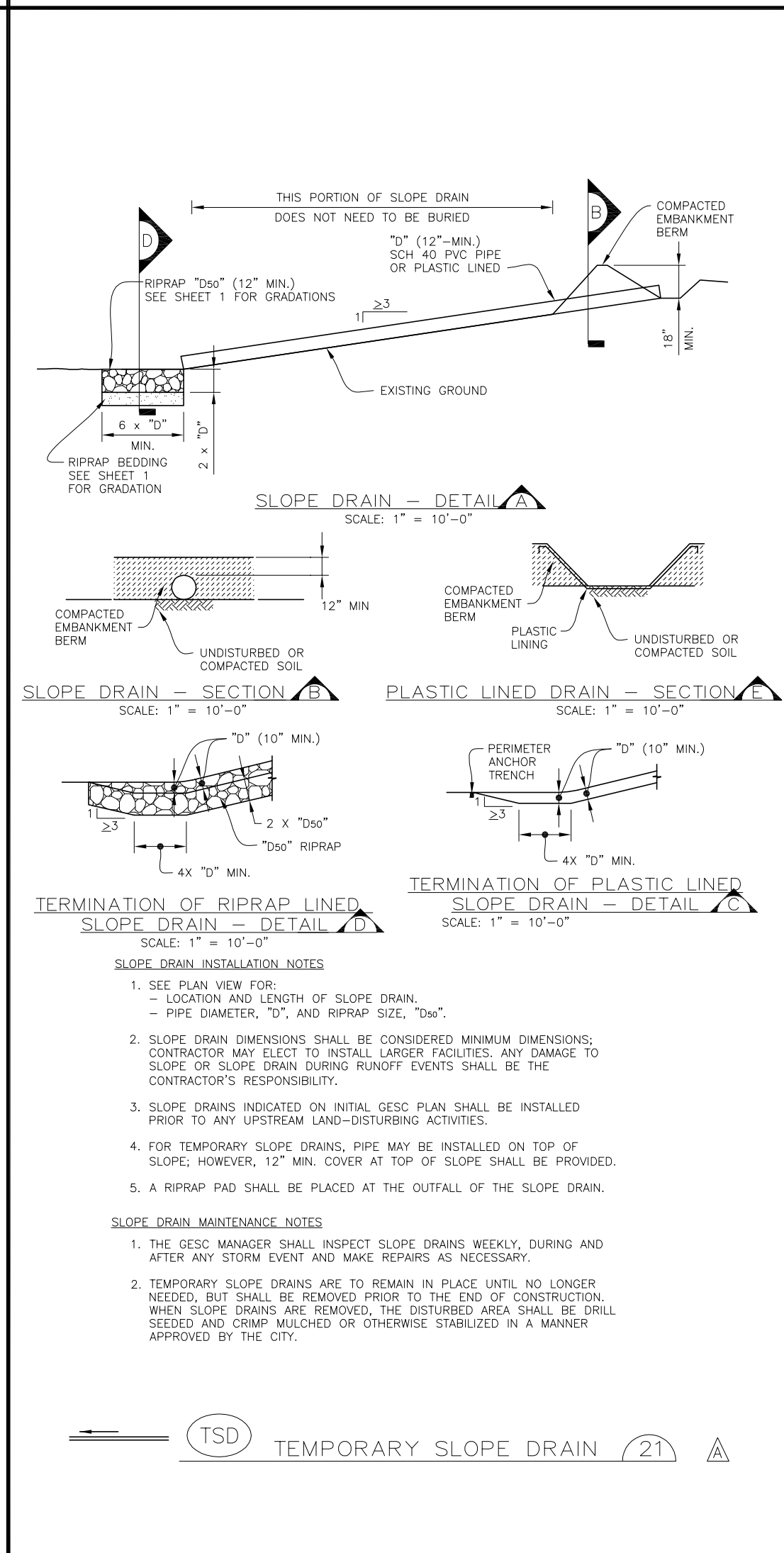
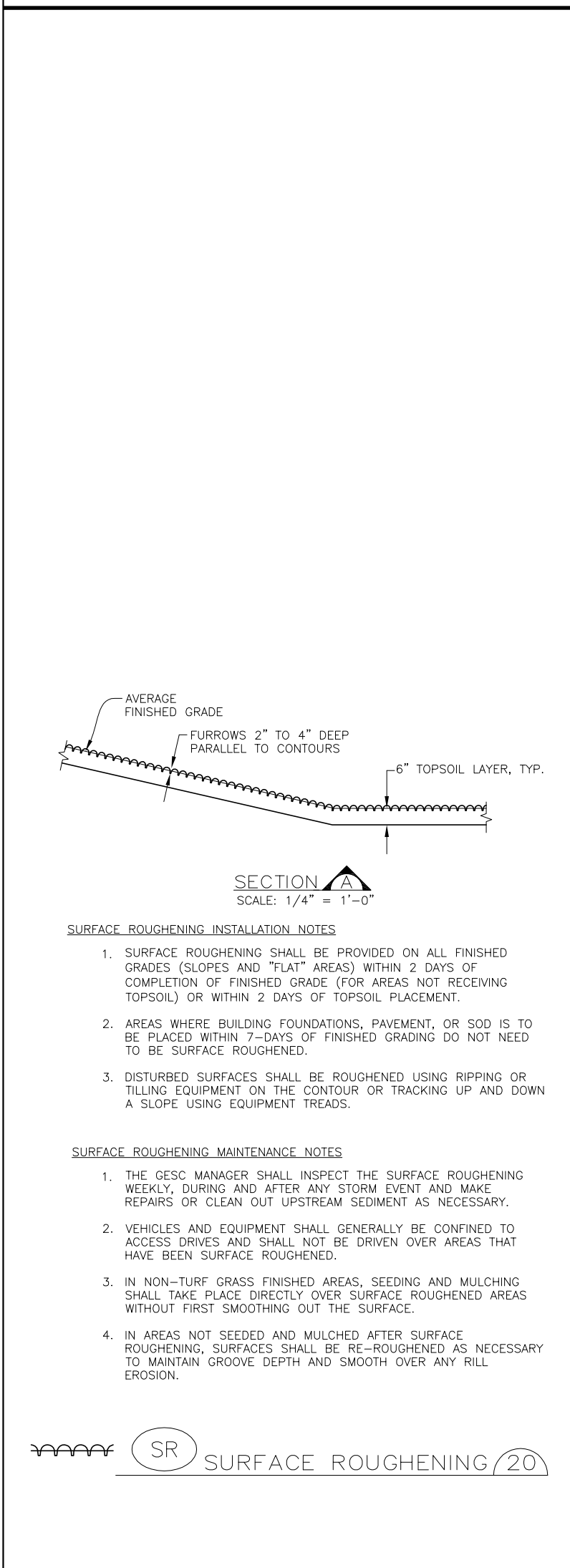
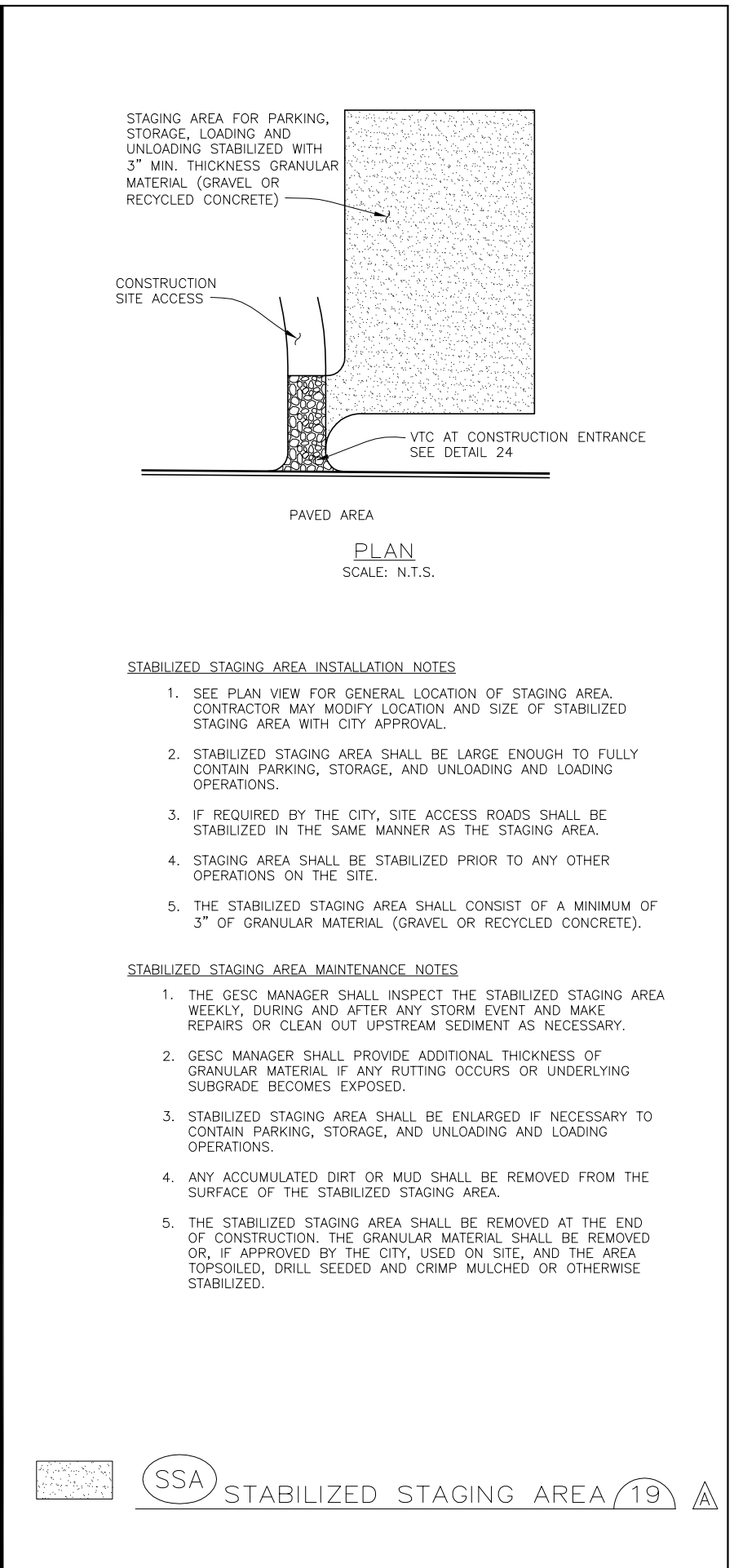
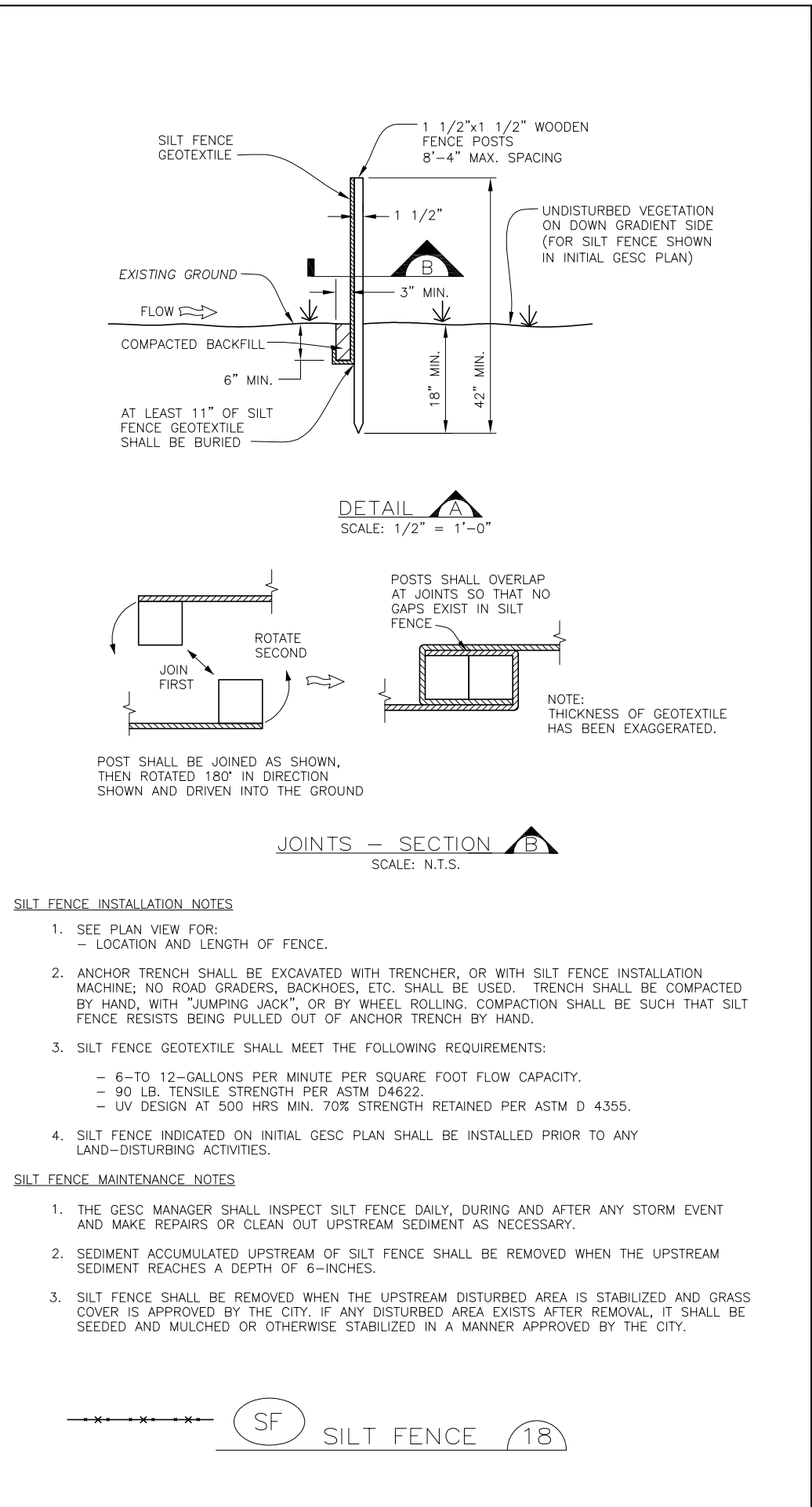
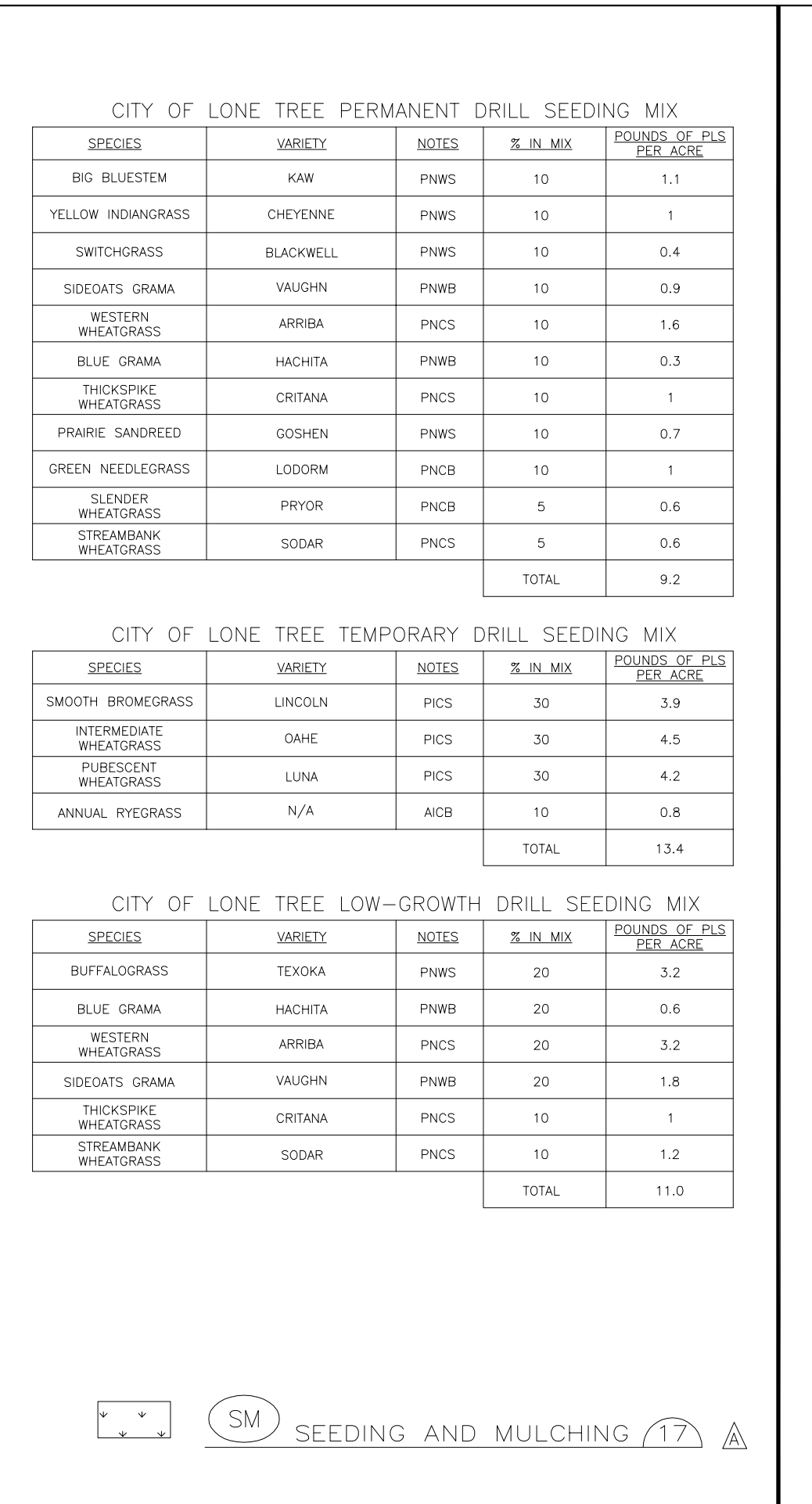
**CITY OF LONE TREE TEMPORARY DRILL SEEDING MIX**

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
SMOOTH BROMEGRASS	LINCOLN	PICS	30	3.9
INTERMEDIATE WHEATGRASS	OMIE	PICS	30	4.5
PUBESCENT WHEATGRASS	LUANA	PICS	30	4.2
ANNUAL RYEGRASS	N/A	AIB	10	0.8
			TOTAL	13.4

**CITY OF LONE TREE LOW-GROWTH DRILL SEEDING MIX**

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
BUFFALOGRASS	TEHOKA	PNWS	20	3.2
BLUE GRAMA	HACHITA	PNWB	20	0.6
WESTERN WHEATGRASS	ARRIBA	PNCS	20	3.2
SEEDCATS GRAMA	VAUGHN	PNWB	20	1.8
THICKSPIKE WHEATGRASS	CRITANA	PICS	10	1
STREAMBANK WHEATGRASS	SODAR	PNCS	10	1.2
			TOTAL	11.0

**SEEDING AND MULCHING (17)**



**Sheet Revisions**

DATE	REVISION	BY
6/30/05	ADOPTED FROM DOUGLAS COUNTY GESC PLANS	MLP
5/ /08	EDIT UPDATES	GAW
11/ /08	ADD CURB SOCK DETAIL (REF UFDC, V3 FIGURE C5-23), MISC. NOTE EDITS	GAW
12/ /09	UPDATE VTC & WW	GAW

NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

